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The AFGL Four Color Infrared Sky Survey: Catalog of Obervations at 4.2, 11.0, 19.8, and 27.4 μm

STEPHAN D. PRICE
RUSSELL G. WALKER

17 September 1976

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This technical report has been reviewed and is approved for publication.

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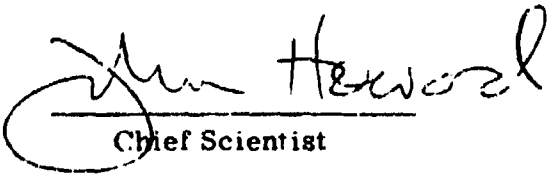

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The results of a multicolor infrared survey conducted by the Air Force Geophysics Laboratory are reported. Observations, in one or more broad band colors at effective wavelengths of 4.2, 11.0, 19.8, and 27.4 μm, are presented with positions for 2363 sources. Ninety percent of the celestial sphere has been surveyed at 11.0 μm and about two thirds of this area was covered more than once.

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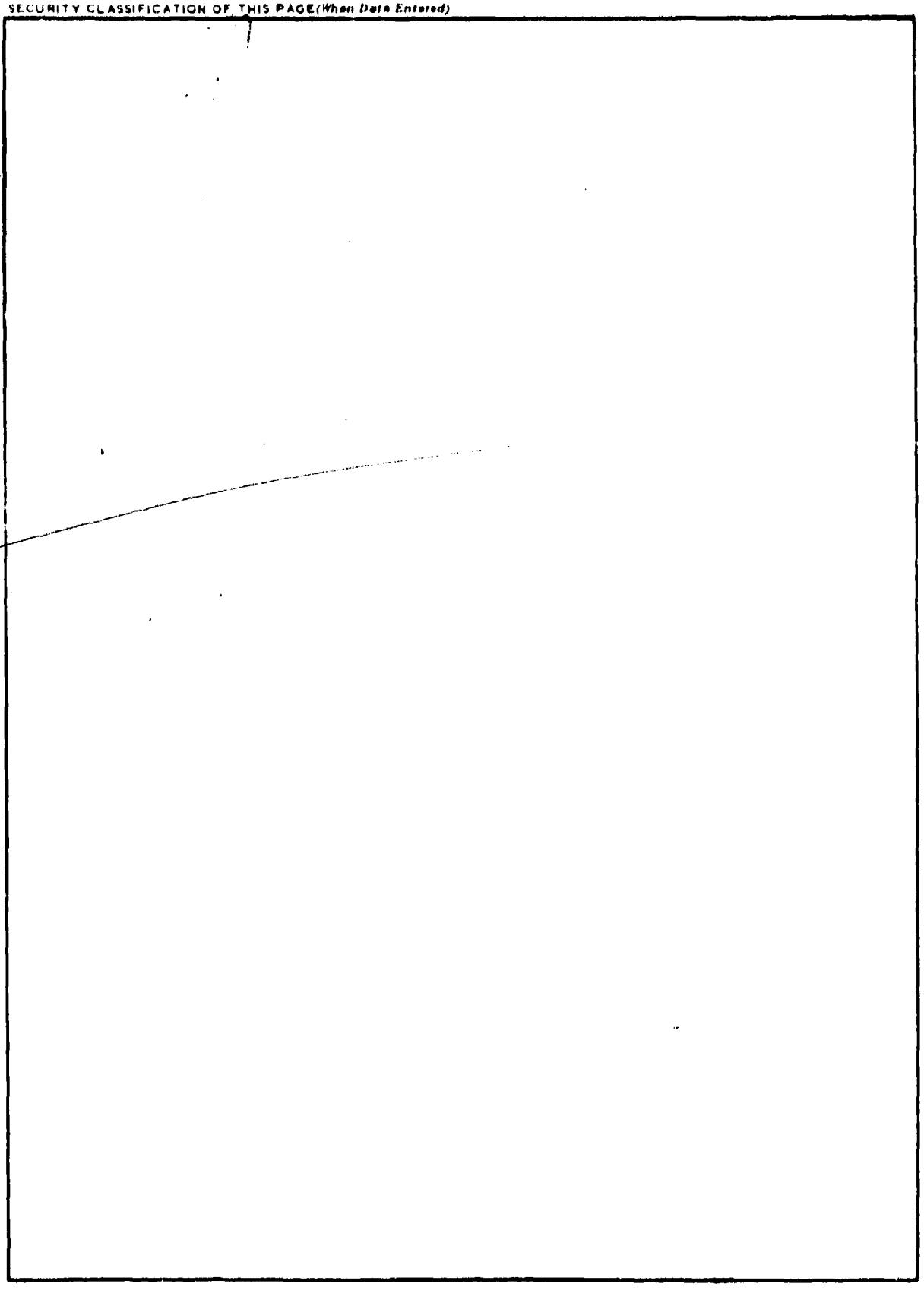

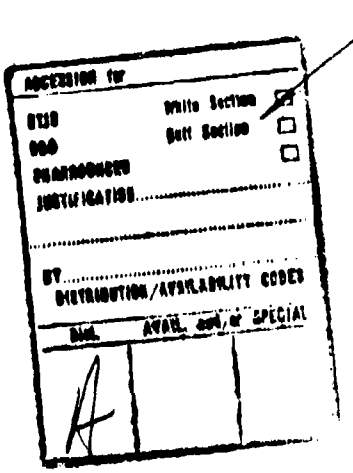

Preface

Performance of a rocket-borne infrared sky survey requires a team effort. Many individuals and organizations have contributed significantly to various aspects of the program.

The telescope was developed, and subsequently modified for the southern hemisphere experiments at Hughes Aircraft Co. under the guidance of Jackson Steffes, Richard Heddon, and John Heintz.

Both the rocket attitude control system and payload recovery system were developed at Aerojet Liquid Rocket Co. (ALRC) under the direction of Mike Watson and Clifford Chalphant. Special thanks go to Joe Meyer, John LaBuda, William Frognone, Arthur Takeda, and Philip Meridith for their engineering genius and excellent field support.

The northern hemisphere rockets were prepared and launched by the U.S. Naval Ordinance Missile Test Facility (USNOMTF). We are especially grateful for the untiring support of "Gunner" Lloyd Briggs (USNOMTF), Ray Petracek (ALRC), Gordon Haiken (ALRC), and Fred Lemmon at New Mexico State University. The Weapons Research Establishment in Salisbury and Woomera, Australia provided the preparation and launch support for the southern hemisphere flights.

Overall design of the payload instrumentation system and telescope mounting was performed by the Aerospace Instrumentation Laboratory of AFGL under the direction of C. Nealon Stark, whose depth of experience and engineering ingenuity were largely responsible for the success of the rocket program. We wish to particularly acknowledge Paul Hartnett, Daniel Nardello, Ed LaBlanc, Larry Smart, and Thomas Campbell of the Wentworth Institute for their contributions to

fabrication, integration, and field support of the payload systems; and Charles Howard, Raymond Wilton, William Miller, Eban Hiscock, and Philip Gustafson (all of AFGL) for their valuable technical inputs and coordination of group efforts. Richard Buck, Dale Costner, and Claude Gwinn of Oklahoma State University constructed the PCM telemetry decommutation system and provided in-the-field telemetry support.

Design and development of the stellar aspect system, alignment of the optical sensors, refurbishment of the infrared telescope between flights and preparation of the telescope for flight was accomplished in the Optical Physics Laboratory of AFGL by Peter C. Tandy, David Akerstrom, Michael Mitchell, and Tony Romanelli under the direction of Charles V. Cunniff. Peter Tandy designed the on-board signal processing electronics for the southern hemisphere experiment. Anthony D'Agati supplied launch window calculations, advice and numerous computer routines necessary for display and analysis of the flight data. A very special acknowledgement is given to Leonard Marcotte whose intimate knowledge of computational techniques with regard to the AFGL CDC 6600 computer facilitated the data reduction, especially through the "Lets try this" stages. Dr. Robert Pelzmann generated the Aitoff plot and many of the data reduction diagnostic graphics. He also was responsible for the data reduction on the limited area survey.

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1. INTRODUCTION

The Air Force Geophysics Laboratory has conducted an infrared sky survey to obtain an unbiased sampling of the celestial sources which are bright in the 3 to 30 μm spectral region. Specifically, the survey objective was to measure the spatial and brightness distributions of a representative sample of the classes of objects which have strong infrared emission. To this end the experimental design insured that the measured position was sufficiently accurate to readily identify previously catalogued objects and to permit ground based telescopes to acquire new sources for more detailed investigation.

Preliminary results of the northern hemisphere portion of the survey program have been published by Walker and Price.[1] This catalog contained measurements on 78 percent of the sky made at effective wavelengths of 4.2, 11.0, and 19.8 μm. The present work extends and updates these data with the addition of data from experiments flown in the southern hemisphere. For these flights a broad band filter with a 27.4 μm effective wavelength was substituted for the one at 4.2 μm. A total of 37,000 square degrees (90 percent) of the celestial sphere has now been surveyed at 11 μm.

(Received for publication 17 September 1976)

1. Walker, R. G. and Price, S. D. (1975) AFCRL-TR-75-0373.

2. EXPERIMENT DESCRIPTION

The survey data were obtained with small, cryogenically-cooled telescopes flown above the atmosphere on rocket probes. The telescopes were doubly-folded Gregorian in design with a primary aperture of 16.5 cm diameter. The instruments were equipped with internal baffles and stops to minimize radiation from the telescope structure onto the focal plane and to reduce the telescope side lobe response. Interference filters selectively isolated different portions of the focal plane in the direction of scan permitting nearly simultaneous measurements in three broad spectral bands.

The focal planes consisted of staggered linear arrays of detectors in each color. Adjacent detectors in each color were overlapped at least one optical blur circle. Thus, energy from a point source was always on at least one detector. The effective wavelengths for the survey were 4.2, 11.0, 19.8, and 27.4 μm with effective bandwidths of 1.5, 5.1, 5.6, and 3.4 μm respectively.

At the conclusion of the northern hemisphere survey, the telescopes were modified and refurbished. The sidelobe rejection was improved and the detector widths in the scan direction were increased by 50 percent. The northern hemisphere flights used detectors with a subtense of 3.4 arc min in the scan direction and 10.5 arc min in the cross scan direction for a total solid angle of 3.0×10^{-6} steradians. The effective cross scan resolution of a point source for all flights was reduced from the 10.5 arc min subtense of the detector to 1.7 or 7.1 arc min depending on whether or not the source transited the overlapped region of the detector array.

The infrared telescope was yoke mounted in a rocket fixed azimuth-elevation system. An accurate geometric reference was established between the telescope and the two other active components of the payload, the star tracker and stellar aspect sensor, and carefully maintained. The payload was spin-balanced about the longitudinal or roll axis of the payload which was made coincident with the sensor azimuth axis. An optical fine guidance error sensor, or star tracker, commanding a cold gas attitude control system and accurately aligned to the telescope azimuth axis, actively held that axis fixed in celestial coordinates. The sensor was deployed in elevation to the desired angle and the payload rotated about the roll axis. Each time the payload completed a 360° roll, the sensor elevation was stepped through an angle slightly less than the total field of view. Thus, a continuous sector of the celestial sphere was mapped.

The star tracker and attitude control system maintained the azimuth axis to a selected star located near local zenith to within 12 arc seconds. An optical encoder mounted on the deployment shaft of the telescope measured the elevation angle to 30 arc seconds. Azimuth values during a roll were obtained to 1.5 arc min (1σ)

with a stellar aspect sensor by observing stellar transits through an N slit focal plane mask with an S11 phototube. Thus, the geometric line of sight is known to about 1.5 arc min accuracy.

An infrared source which transitted a detector produced an electrical signal which was amplified, electronically band limited, then sampled, digitized and transmitted to the ground on a pulse code modulation telemetry link. The amplifiers were ac coupled with their frequency response chosen to optimize the point source system response while preserving as much information as possible on extended sources. The ac coupling of the amplifiers tended to discriminate against smoothly varying sources with angular extents large compared to the size of a detector.

A total of nine rockets were flown to obtain the survey data. Seven flights were launched during 1971 and 1972 from the White Sands Missile Range, New Mexico at a latitude of 32.4° North. In September 1974 two additional flights were launched from Woomera, Australia at 32° south latitude. The flight number and launch dates are given in Table 1.

Table 1. Flight Numbers and Launch Dates

Flight No.	Greenwich Date	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	2441547.8
7	5 December 1972	2441656.7
8	4 September 1974	2442295.4
9	11 September 1974	2442302.6

Ninety percent of the sky has been surveyed at 11 μm at least once and about two-thirds of the sky was mapped two or more times.

3. DATA REDUCTION

Pursuant to the goal of obtaining measurements on as many types of celestial sources which have strong infrared emission, the data reduction techniques were

maximized for the detection of real sources. Also, the detection of point sources has been emphasized. Detailed analysis of the extended sources is currently under way and the result will be published separately.

The data were reduced at the AFGL computational center on a CDC 6600 digital computer. The data were digitally filtered to optimize the signal-to-noise for a point source, then cross correlated with an ideal point source system response. The correlation amplitude is the best estimate, in the least square sense, for the amplitude of a point source. Continuous, point-for-point, values for the mean and rms noise were calculated for the raw data, the filtered data, and the cross correlated data. Possible sources were selected on the basis that either the signal amplitude to noise ratio (S/N) or the cross correlation amplitude exceeded a threshold predetermined on the assumption that the noise had a guassian probability distribution.

Positions and positional errors were then assigned to each possible source. The elevation error was taken equal to the detector half height and the azimuth error taken to be the positional change corresponding to the uncertainty in time in determining the signal peak. Sources observed in different colors with overlapping error boxes were combined as multiple color observations and the statistics of the highest confidence color was adopted for the source. Thus, the data reduction does not treat each color as a separate, independent survey but as a measurement on a detected source in that color. The source positions were compared to selected catalogs which had been transformed into rocket coordinates and associations were made if the catalogued source was within a detector half height and full width. If more than one source from a given catalog were within these limits, the catalogued object closest to the observed position was adopted. Improvements to the aspect solutions were obtained by comparing the observed positions with those of sources associated with the IRC.[2,3,4] Next, all potential sources were required to have both its S/N and its cross correlation coefficient exceed the preselected confidence level.

Observations on adjacent rows of detectors or in the roll-to-roll overlap regions were then combined. Finally, flight-to-flight combinations were made. Measurements made on a source on several flights were combined if their positional error boxes overlapped. The S/N's of the individual detections were added in quadrature if, and only if, those observations were made in a common color. A second, and higher S/N threshold was then applied to the list of potential sources. Only sources exceeding this value were included in the catalog.

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

3. Neugebauer, G. (1971) private communication.

4. Smithsonian Astrophysical Observatory Star Catalog, Smithsonian Institution, (1966).

The data reduction incorporated the two different confidence level criteria to allow fainter sources to be selected by multiple flight observations, in keeping with the philosophy of maximizing the selection of real sources, and to account for a source not having the same signal-to-noise ratio every time it was measured. The variable signal-to-noise ratio could have been due to the source being intrinsically variable, to the responsivity varying from detector to detector and from flight to flight, the non-stationary behavior of the noise due to radiation from the earth detected through the sidelobe response of the telescope or a combination of these factors. Under worst case conditions the responsivities varied from detector to detector by a factor of 2 and the noise varied by as much as a factor of 5 on a given channel during a flight. Sources located in multiply surveyed regions were also required to pass a confirmation criterion in order to be included in the catalog. To account for the above effects, a confirmability weight, W_c, was determined in the following manner.

Let M_c be the number of times a source was observed in color c in N_c times the source position was scanned. Signal-to-noise ratios were calculated for each detector channel in each color that rescanned the source position but did not detect it again. The expected signal was an average of the observed values and the noise was obtained from a data file which contained the calculated noise values for all detector channels on all flights as a function of position. These signal-to-noise ratios define a confirmability weight, w_c, as follows:

$w_c = 0$ if $S/N <$ lower threshold,

$w_c = 1/2$ if lower threshold $\leq S/N <$ upper threshold,

$w_c = 1$ if $S/N \geq$ upper threshold.

The total confirmation weight, W_c, is the sum of the N_c-M_c weights.

The largest value of M_c defines the color used for flight to flight confirmation. A source was considered confirmed if M_c was greater than W_c. In the event that the source was observed an equal number of times in more than one color, the color yielding the largest W_c was used.

About five sources with amplitudes exceeding the upper threshold but which failed the flight to flight reconfirmation were retained in the catalog. Due to the scan geometry for the detection of these sources on the confirming flight, they were confused with nearby stronger sometimes extended objects. Sources reobserved on a more sensitive, limited area survey flown in February 1974 were retained independent of the confirmation on other flights. A source observed only in the 4.2 μm band and associated with an object in the IRC was retained in the Catalog if $M_{4.2} \geq W_{4.2}$.

4. SPURIOUS SOURCES

During the course of the program a number of phenomena which could produce spurious sources were identified.

Cosmic rays ionize the detectors and produce signal pulses which are characteristic of the impulse response function of the signal processing electronics. These pulses thus were narrow and their rise times were faster than those due to the transit of a real infrared source. The larger amplitude sources were easily identified on this basis and eliminated from the data. However, it was difficult to distinguish these unique features for medium and low amplitude signals. Recognition of most of the medium amplitude pulses could be made on the basis that at the brightness measured, the source would have to have been detected in another color for any sort of reasonable spectral energy distribution. A total of 4228 cosmic ray pulses were eliminated using the above techniques, while an analytical model of the system interaction with cosmic rays predicts an additional 2000 pulses with lower amplitudes.

As noted previously, the non-stationary behavior of the noise is attributed to the photon background from the earth that the detectors are exposed to through the sidelobe response of the telescope. Inhomogenieties in the emission from the earth and earth's limb produced extended spurious pulses during normal scanning or when the telescope was stepped to a new elevation angle. These outputs were easily identified because they occurred when the noise was high and were relatively wide angle effects and should have been almost completely eliminated in the final data processing.

Three of the nine flights (flight numbers 2, 6, and 7) encountered unique problems which created spurious signals. For a brief time, flight number 2 detected particulate contamination at the beginning of the data taking period. Potential sources observed during this section of the flight were eliminated completely unless the potential sources had absolute confirmation from overlapping flights. Flight numbers 6 and 7 were plagued with correlated noise on all channels. Attempts to reduce or eliminate this noise with a correlation compensating algorithm applied separately to each channel were very successful. However, spurious pulses may occasionally have been created or not removed by the compensating algorithm. Failure of this algorithm would have produced an increased noise level and extended pulses. All extended sources on these two flights which were not confirmed by rescan were eliminated from the catalog.

Many real infrared sources were also detected which were not part of the stationary infrared celestial background. Six sources were identified with planets, seventeen with asteroids, and several more with artificial satellites. One meteor was tentatively identified on the basis of color and observed high angular velocity.

The planets Mars, Jupiter, and Saturn, and the asteroids Ceres, Pallas, Vesta and Juno were identified by their characteristic spectral energy distribution and excellent positional agreement with the ephemerides published in The American Ephemeris and Nautical Almanac.[5] For fainter asteroids the positions from the Ephemerides of Minor Planets[6] were used. We estimate all the planets and asteroids have been eliminated from the catalog.

Artificial satellites were identified through positional agreement with calculated ephemerides which specifically account for the motions of the satellite in its orbit, the payload in its trajectory and the telescope as it scans the sky and the errors in determining each of these motions. Many artificial satellites were successfully identified and eliminated from the ca[illegible]g.

All these phenomena produce sources which could have been seen on only one flight at a given celestial coordinate. Most of these spurious sources not otherwise accounted for will have been eliminated by applying the confirmation criterion that a source should have been confirmed if it was in a multiply surveyed region. Fortuitous positional agreement with real celestial sources was avoided by eliminating the real moving objects after flight to flight combinations were made.

With the data reduction techniques and selection criteria described above it is estimated that fewer than two sources in the catalog could be due to spurious noise peaks and no more than 12 entries are caused by change positional combinations. Also, a small but uncertain percentage of the sources may have spurious multicolor combinations. As to the sources observed only once, it is difficult to estimate the number which may be spurious. Therefore, it should be kept in mind when using the catalog that the reality of single observed sources does not have the same degree of confidence as is given by rescan confirmation for multiply observed sources. Rescan confirmation is a powerful criterion in eliminating spurious events.

5. THE SURVEY

The survey detected 2363 sources in one or more of the survey colors. The percentage of the sky surveyed and total number of sources observed in each color are listed in Table 2.

5. American Ephemeris and Nautical Almanac, Naval Almanac Office, United States Naval Observatory.

6. Ephemeris of Minor Planets, Institute of Theoretical Astronomy, Academy of Sciences, U.S.S.R.

fabrication, integration, and field support of the payload systems; and Charles Howard, Raymond Wilton, William Miller, Eban Hiscock, and Philip Gustafson (all of AFGL) for their valuable technical inputs and coordination of group efforts. Richard Buck, Dale Costner, and Claude Gwinn of Oklahoma State University constructed the PCM telemetry decommutation system and provided in-the-field telemetry support.

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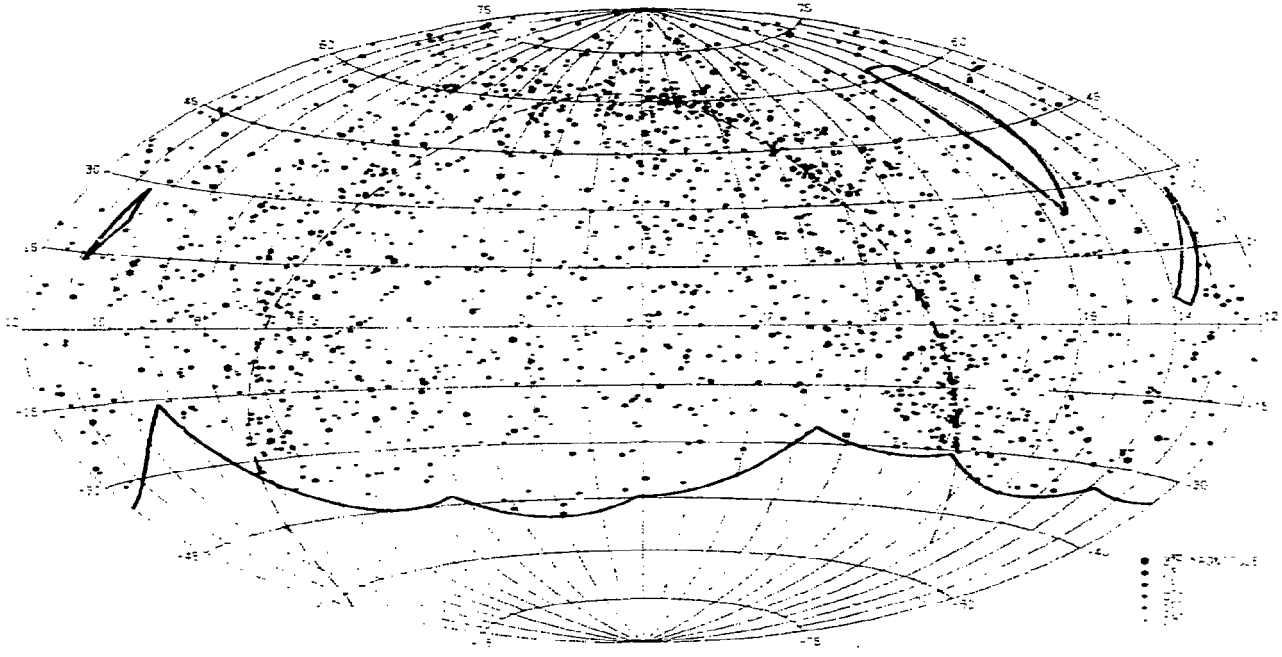

Figure 1. Distribution of the 4.2 μm Sources Plotted in Celestial Coordinates. The heavy line delineates the survey boundaries and the dotted line the galactic plane

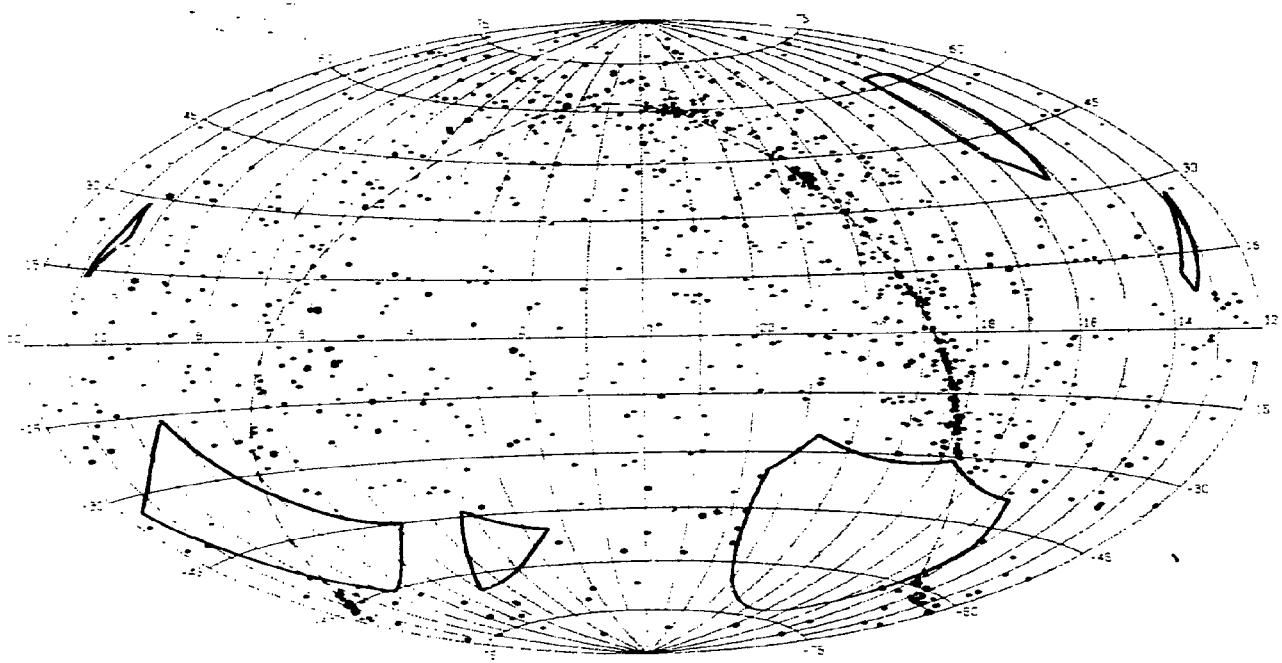

Figure 2. Distribution of the 11.0 μm Sources Plotted in Celestial Coordinates

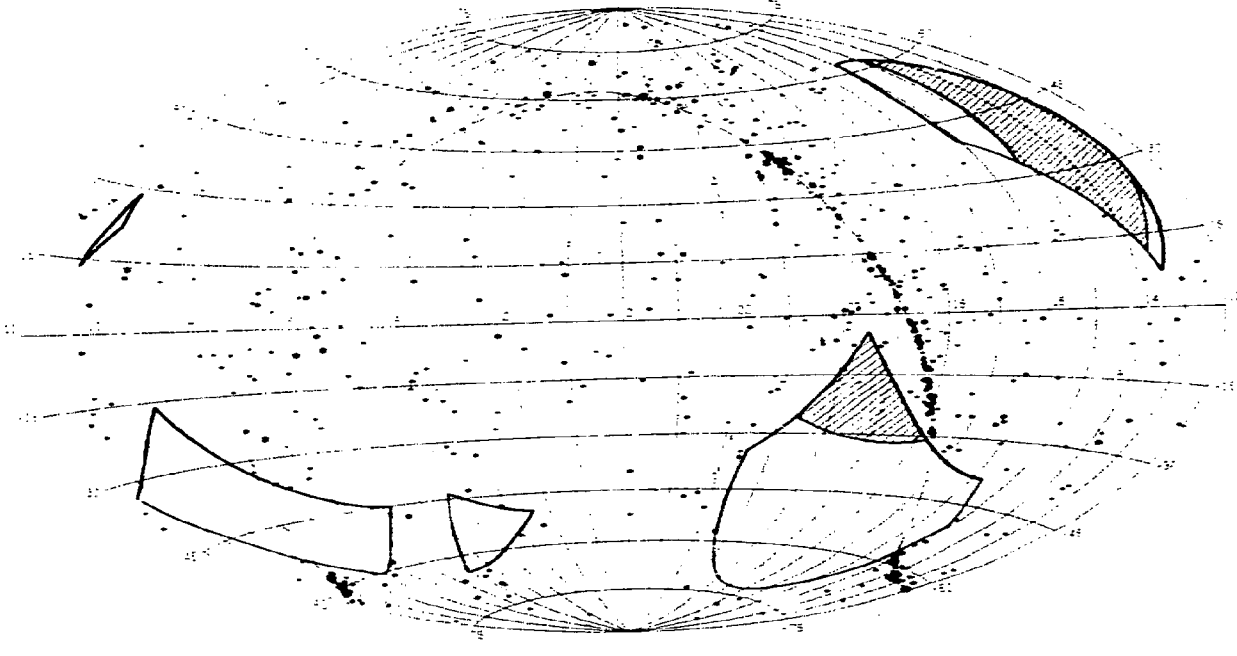

Figure 3. Distribution of the 19.8 μm Sources Plotted in Celestial Coordinates. The cross-hatched areas represents regions only partly scanned due to a system malfunction

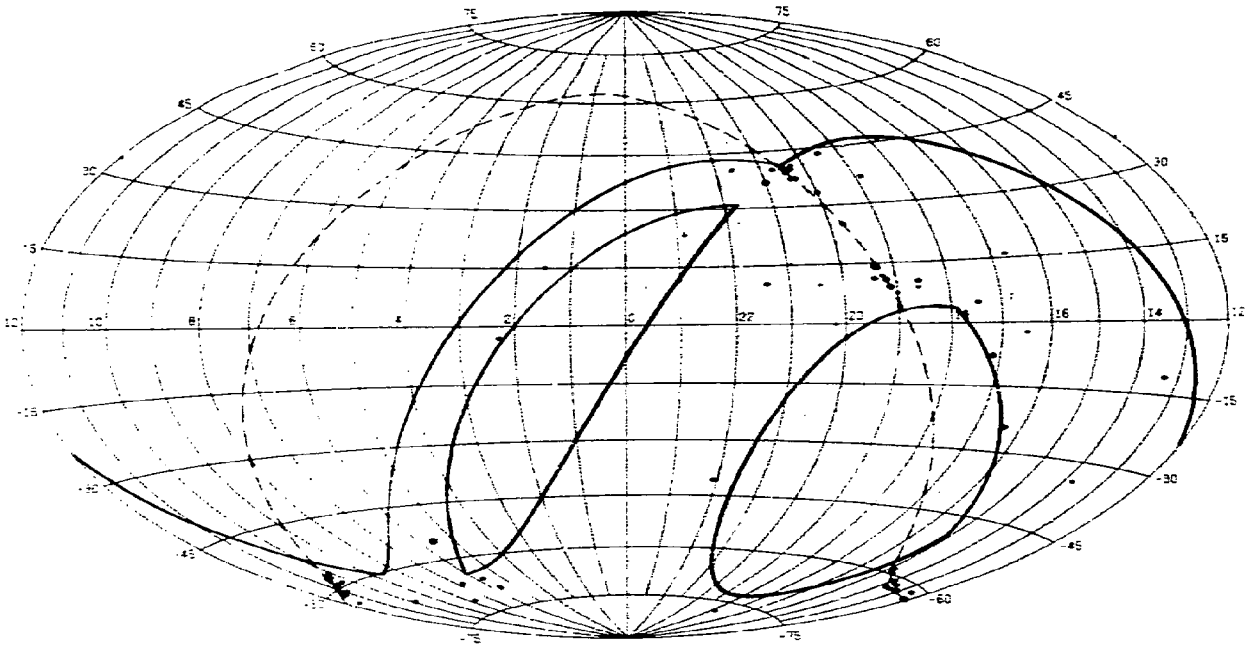

Figure 4. Distribution of the 27.4 μm Sources Plotted in Celestial Coordinates

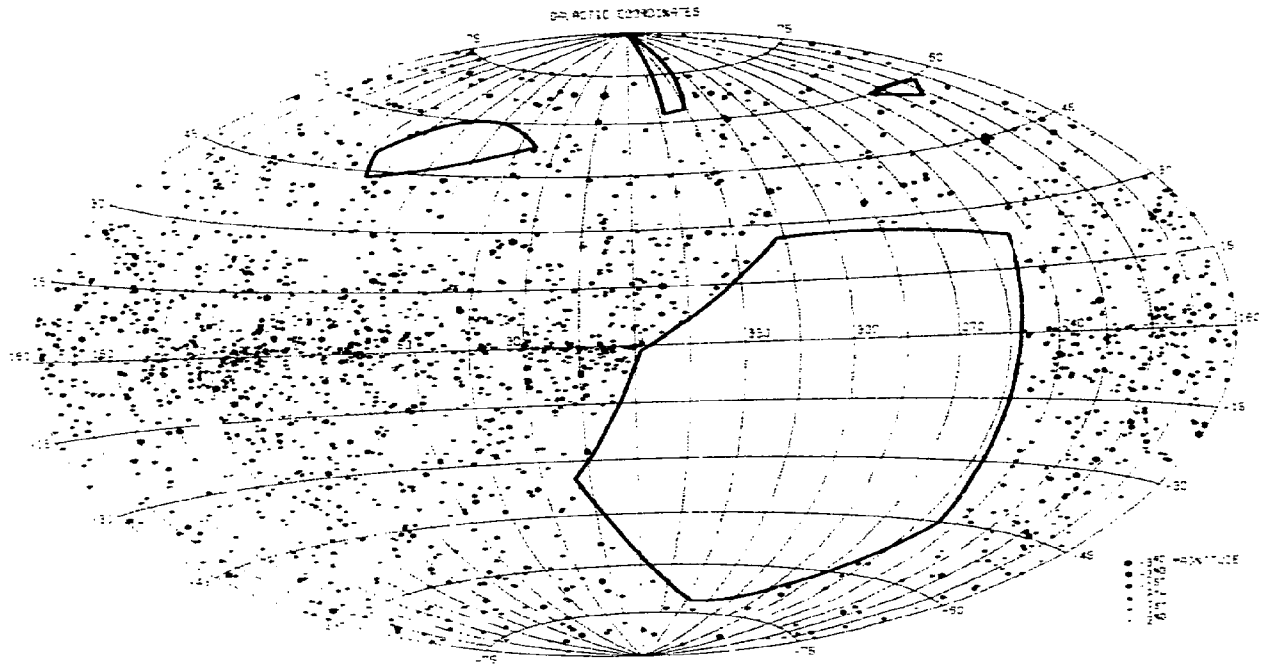

Figure 5. The Distribution of the 4.2 μm Sources Plotted in Galactic Coordinates. The heavy lines define the survey limits

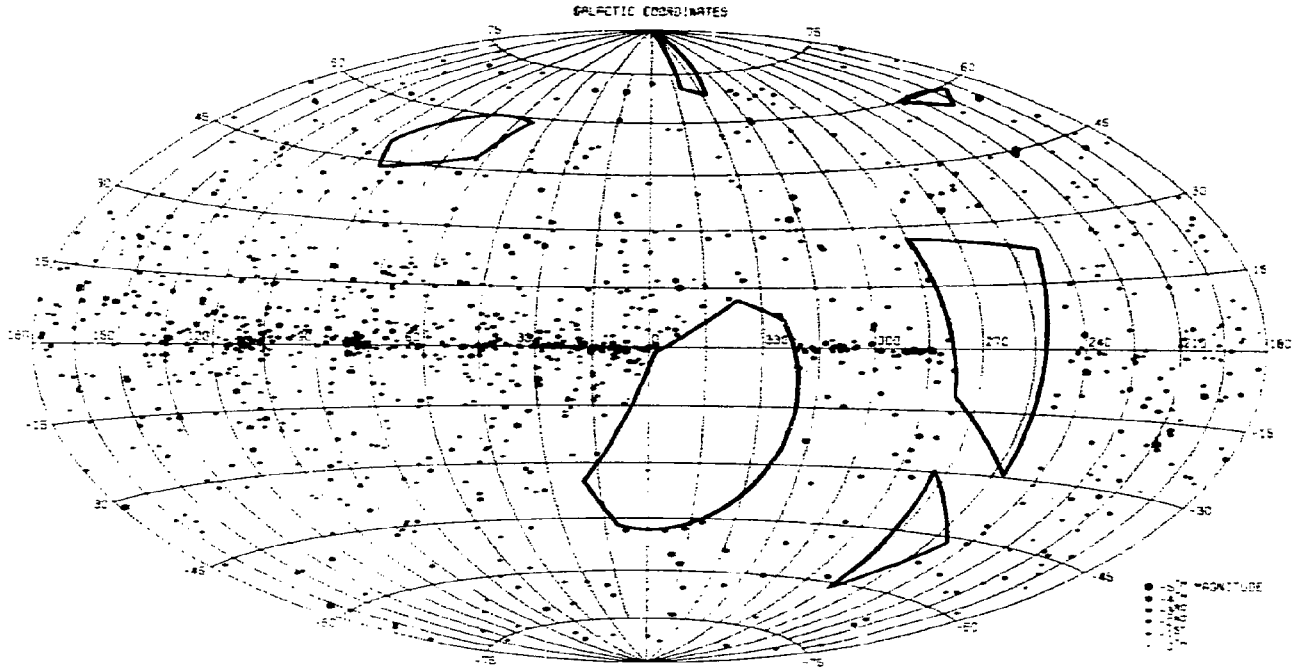

Figure 6. Distribution of the 11.0 μm Sources Plotted in Galactic Coordinates

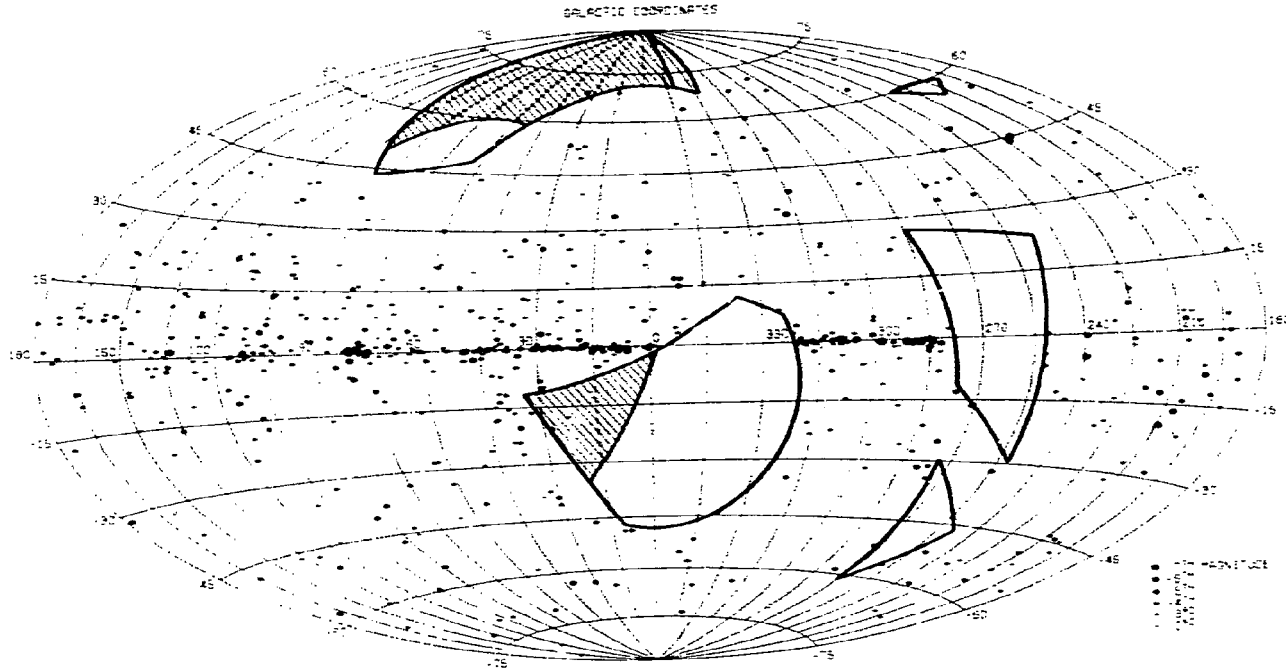

Figure 7. Distribution of the 19.8 μm Sources Plotted in Galactic Coordinates. The cross-hatched area has the same meaning as in Figure 3

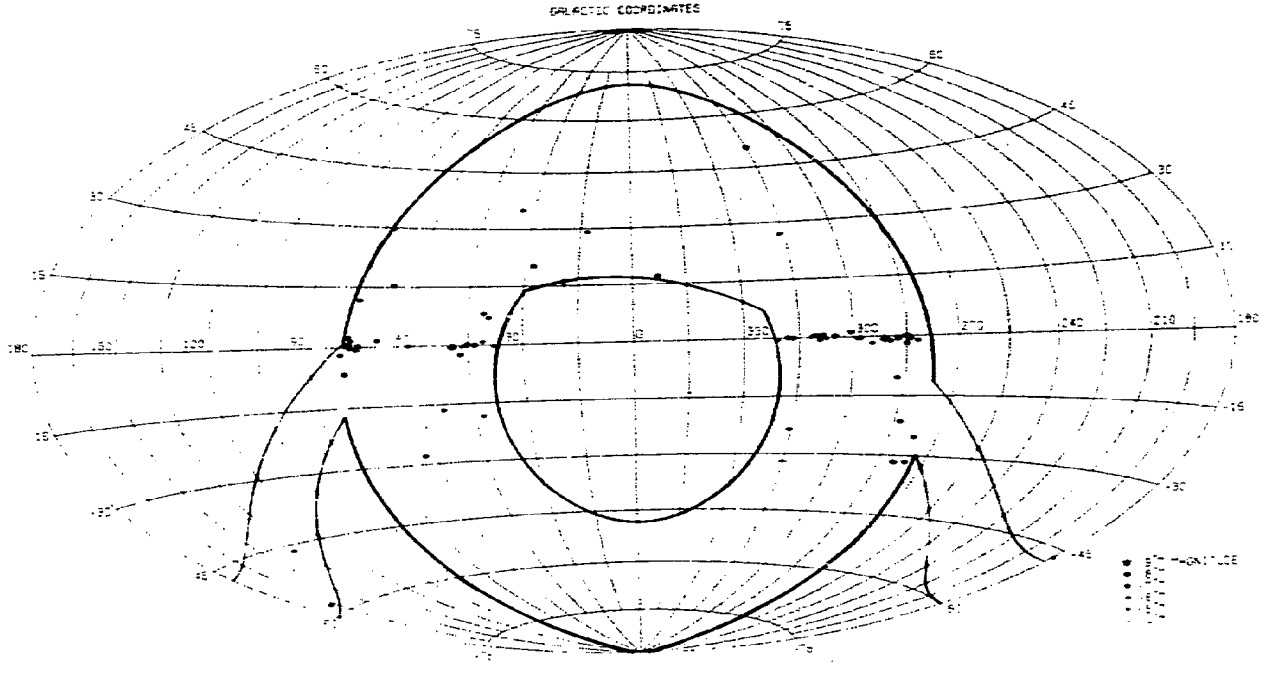

Figure 8. Distribution of the 27.4 μm Sources Plotted in Galactic Coordinates

6. THE CATALOG

The catalog is divided into three sections: The main table of observations, an observing record of multiple observations, and a remarks section.

6.1 Table of Observations

COLUMN 1 - CATALOG NUMBER (GL)

The sources are arranged in right ascension. To avoid potential confusion the CRL numbers from Walker and Price[1] have been preserved for those sources in common with the present catalog. Some minor reordering has taken place as the positions have been improved with the new data. New sources are numbered serially beginning with 4001.

COLUMN 2 THROUGH 5 - COORDINATES

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

Estimates of the positional uncertainty in right ascension are given in column 4 (labeled EA) to the nearest second of time and similarly for declination to the decimal minute of arc in column 5 (ED). Since the geometric aspect solutions updated through catalog cross checks resulted in uncertainties smaller than the size of a detector, the adopted uncertainty for a source position was the effective resolution of a detector element in the focal plane. In the rocket coordinate system the elevation error is ± 0.85 or ± 3.55 arc min depending on whether or not the source transitted the detector overlap region, and the azimuth error is that corresponding to the uncertainty in time in determining the signal peak. The listed errors are these uncertainties transformed from rocket coordinates into celestial coordinates. For multiply observed sources the individual errors were combined in a room sum square sense with the rms of the individual positions about the mean and divided by the square root of the number of observations plus one.

The accuracy with which the geometric aspect was determined is shown in the histograms in Figures 9 and 10. These plots show the distribution, in minutes of arc, of the difference between the IRC and GL right ascensions, reduced to the equator, and declinations respectively. The root mean square of these distributions are 1.5 arc min in right ascension and 1.2 arc min in declination. The histograms show how well the updated GL position match positions in the catalogs used for the updating but do not reflect the uncertainties in the individual measurements of sources. These uncertainties are dominated by the lack of knowledge as to where the source transitted the detector. The distribution of the positional uncertainties listed in columns 4 and 5 are shown in Figures 11 and 12 respectively.

Here, a bimodal distribution is evident, one extends out to 3 arc min and is dominated by sources which have multiple observations, another with errors out to 4.5 arc min which mainly consist of singly observed sources. The uncertainty in the position of a source can be as large as 4.5 arc min even though the geometric aspect is accurate on the order of 1.5 arc minutes.

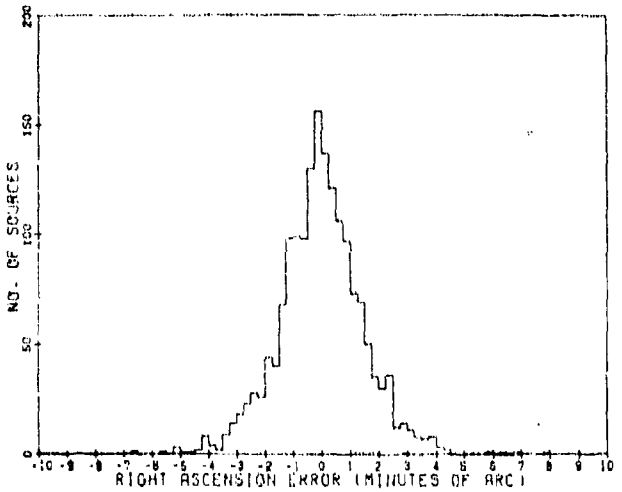

Figure 9. A Histogram of the Differences in the Right Ascension, in Minutes of Arc Reduced to the Equator, of the GL Sources and the IRC Objects Associated With Them

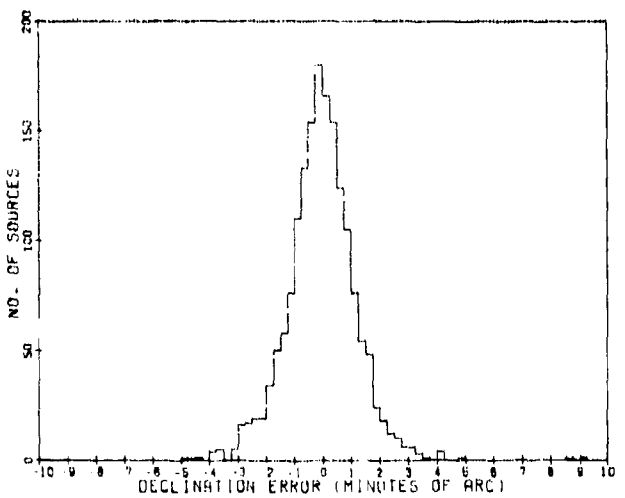

Figure 10. A Histogram of the Differences in the Declination Between the GL Sources and IRC Objects Associated With Them

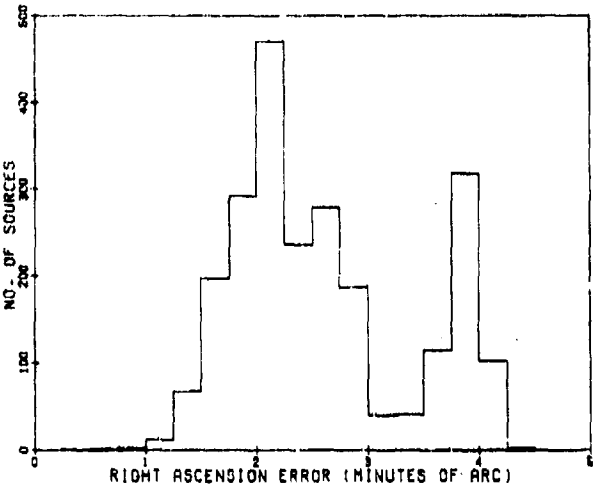

Figure 11. The Histogram of the Right Ascension Uncertainties, in Terms of Minutes of Arc Reduced to the Equator, of the GL Sources

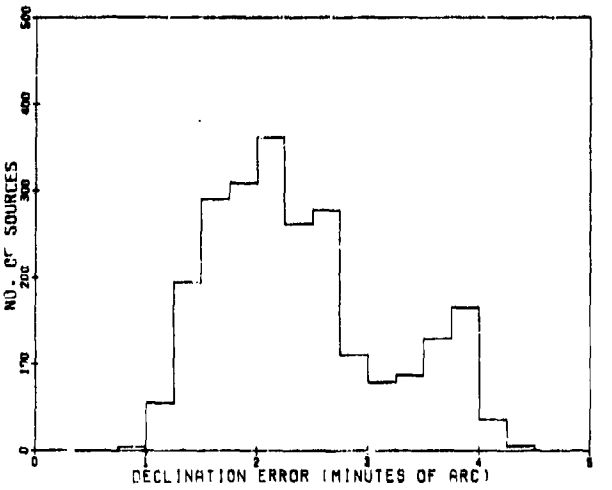

Figure 12. The Histogram of the Declination Uncertainties of the GL Sources

COLUMNS 6 THROUGH 9 - MAGNITUDES

The measured magnitudes and associated errors are given in these columns. Column 6 lists the observed 4.2 μm magnitudes and, in parentheses, its error. Column 7 gives these values at 11.0 μm, column 8 the 19.8 μm values and column 9 gives the 27.4 μm values.

A blank entry in one of these columns indicates that the source was scanned but not detected in that spectral band. Also left blank were the 4.2 μm columns for flights 5 and 9 and the 27.4 μm columns for flights 1 through 7 as the 27.4 μm band was substituted for the 4.2 μm band on these two flights. An asterisk (*) designates that the source was not scanned in that color due to system problems. A less than sign (<) indicates that all measurements in this band were in saturation and that the tabulated value is a lower limit. Magnitudes listed for multiply observed sources are the average of the individual measurements.

Calibration of the sensor was done for each individual detector and for each flight. The same telescope and detector system was flown on the first six flights and a different telescope and/or focal plane was used on each of the last three flights. In-flight calibration by a light emitting diode verified that the response changed little, if any, during the course of the flight. Also, the calibration for the first six flights showed a remarkable flight to flight consistency in responsivity of the individual detectors. These data were, therefore, combined. The responsivity of each detector was calculated by a linear least squares fit of the observed system magnitudes to values derived from published ground based photometry in the 2 to 20 μm spectral region on IRC objects. Sources measured to be extended or to have an uncombined signal amplitude to noise ratios smaller than the high level gate or sources associated with objects measured to vary by more than half a magnitude were excluded from the calibration. The linear least squares calculation was iterated up to five times by rejecting the largest deviation greater than two times the standard deviation of the current fit. This limited rejection on the basis of poor fit was felt justified since the degree of variability for some sources is not adequately known, and also because the source could have significant angular extent compared to ground based systems but small compared to the resolution size used in the survey.

The adopted 4.2 μm magnitudes were either interpolated from the 3.5 and 5.0 μm published magnitudes or, in a minority of the cases, extrapolated from the 2.2 and 3.5 μm values. For the first six flights combined, 41 to 79 sources were used to calibrate each detector in this color with a typical standard deviation to the least square fit of 0.25 magnitudes. Measurements, at or near 11.0 μm (for example, the N magnitude) and 19.8 μm effective wavelength were adopted directly. Eighteen to thirty-seven sources were used to calibrate each 11 μm detector and four to ten sources were used to calibrate each 19.8 μm channel. Typical standard

deviations are 0.3 magnitudes at 11.0 μm and 0.4 magnitudes at 19.8 μm. The responsivities derived for this telescope and focal plane were, for the most part, within 10 to 20 percent of the post-flight laboratory calibration performed on blackbody sources.

Each subsequent flight had to be calibrated individually since each flight employed a different telescope and/or focal plane. As the number of IRC sources detected for each channel was insufficient to give a good calibration, non-extended sources observed on the first six flights were used to augment the calibration list. Scaling factors for each color in the array were obtained by comparing the responsivities of the detectors derived from the stars to the relative responsibilities obtained in the laboratory. Channels with too few sources for a reliable least squares fit were calibrated by scaling the laboratory values. Uncertainties in the calibration of the last three flights were 0.1 to 0.2 magnitudes larger than that of the first six. Calibration of the 27.4 μm color was done by scaling the laboratory values to the flux inferred from published data on CRL 2688, 2495 (IRC 30407), η Car, CRL 2390 (IRC 10420) and a blackbody fit to the energy distribution of Ceres. The paucity of calibration sources means the uncertainties are rather large, 0.5 to 0.7 magnitudes.

Comparisons of the measured survey magnitudes on sources in the GL catalog with those inferred from published data in the literature are shown for the sources in the present catalog in Figures 13, 14, and 15 for the 4.2, 11.0, and 19.8 μm bands respectively. In these figures the differences between measured and published magnitude are plotted as a function of measured magnitude. The range of values for the source reported in the literature is shown by the vertical lines and the adopted value for this source is given by the plotted symbol. In Figure 13 the crosses are data taken from the extensive compilations of Hall[7] on published 11 μm measurements of stars. Extended sources have been eliminated from the plots but the large amplitude variables have been retained.

These plots indicate a tendancy for the measured brightnesses in the 11.0 and 19.8 μm bands to be too high for the fainter sources, most of which were not used in the calibration. For a survey that does not monitor all sections of the sky, variable sources will be preferentially detected at their brightest; too faint a flux will not produce a detection above the selection threshold. Variations of up to 1.5 magnitudes at 11 μm have been observed for objects such as IRC + 10011. Merrill[8] has measured several anonymous CRL sources to vary by a factor of two at 11 μm with time scales of a year. Even more important is the fact that the measured responsivity of the detectors employed on the first six flights is highly

7. Hall, R.T. (1974) SAMSO-TR-74-212.
8. Merrill, K.M. (1975) Bull. AAS 7:443.

non-uniform in elevation. Variation of 10 to 40 percent from the adopted calibration value with pronounced edge effects were observed. Again, low flux sources transitting the depressed responsivity regions of a detector would not pass the first gate. Deviations of up to half a magnitude due to these causes could be expected.

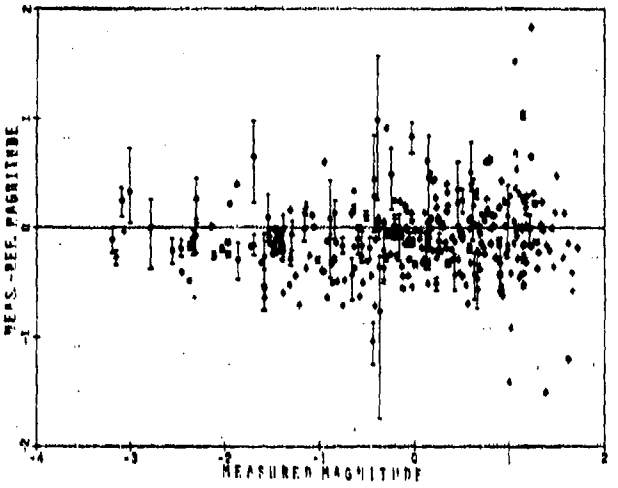

Figure 13. Comparison of the Measured Magnitudes at 4.2 μm and the Measured Minus Adopted Magnitude for IRC Objects. The vertical bar represents the range of magnitudes derived from published data and the plotted symbols are the adopted values for the object

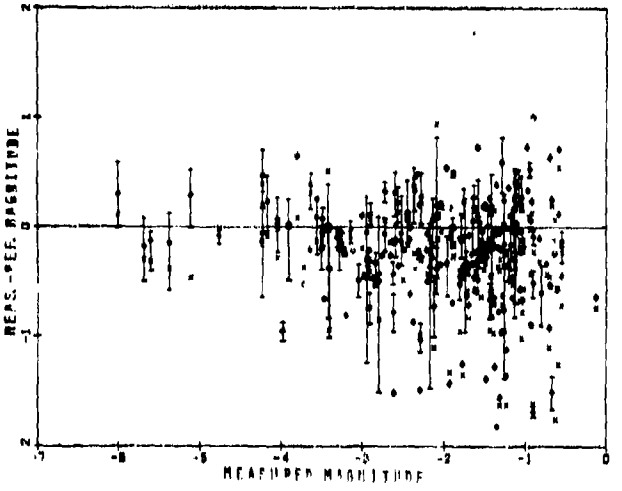

Figure 14. Comparison of the Measured 11.0 μm Magnitude and the Measured Minus Adopted Magnitudes. The x's are based on the compilation of Hall;[7] the other symbols have the same meaning as in Figure 13

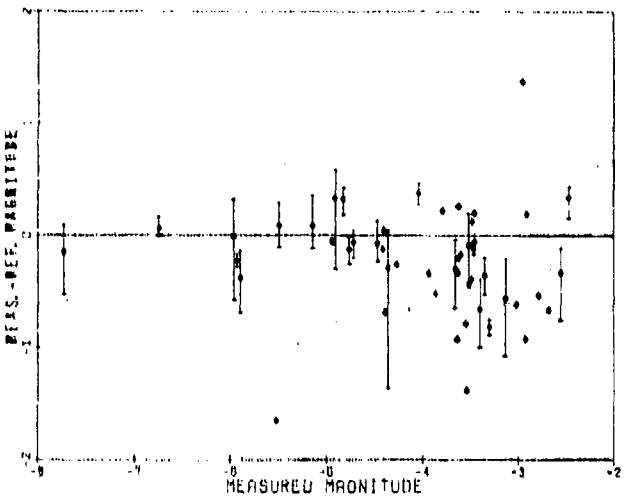

Figure 15. Comparison at 19.8 μm Between the Measured Magnitude and the Measured Minus Adopted Magnitudes. Symbols have the same meaning as in Figure 13

The magnitudes listed in columns 8 through 9 are affected by another phenomenon which has been investigated by Sayre et al.[9] They found that the detector responsivity depends on the geometry of the source observed, in the sense that an extended source would give a larger response than a point source with the same total flux. Our laboratory calibrations indicate that the brightness of objects greater than 5 arc min in extent may be overestimated by as much as a factor of 4.5. Also, this phenomenon is strongly wavelength dependent.

The magnitude error listed in columns 8 through 9 is a combination of the random errors of measurement and the calibration error.

The fluxes for a zero magnitude star are:

$H(4.2\ \mu m) = 3.6 \times 10^{-15}$ w cm^{-2} μm^{-1}

$H(11.0\ \mu m) = 5.3 \times 10^{-17}$ w cm^{-2} μm^{-1}

$H(19.8\ \mu m) = 8.2 \times 10^{-18}$ w cm^{-2} μm^{-1}

$H(27.4\ \mu m) = 2.2 \times 10^{-18}$ w cm^{-2} μm^{-1}

COLUMNS 10 THROUGH 12 - ASSOCIATIONS AND COMMENTS

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

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9. Sayre, C., Arrington, D., Eisenmanor, W., and Merriam, J. (1976) preprint from March 1976 IRIS Meeting on Detectors.

IRC associations in column 10 are based on positions given by Neugebauer and Leighton[2] and from an extension of the 2.2 μm survey (designated by an E) of Neugebauer.[3] The Bright Star number and the Bayer and Flamstead designations are from Hoffleit.[10]

The associations in column 11 are not inclusive but based on a heirarchy 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.[10]
2	Variable Star	Kukarkin, B.V. et al[11]
3	DO (Dearborne Observatory)	Lee, O.J., et al[12, 13, 14]
4	GC (General Catalog)	Boss, B.[15]
5	NGC (Revised New General Catalog)	Sulentic, J.W. and Tifft, W.G.[16]
	IC (Index Catalog)	Dreyer, J.L.E.[17, 18]
	SHARP	Sharpless, S.[19]
	RCW	Rodgers, A.W. et al[20]
	BRIGHT NEB	Lynds, B.T.[21]
	HFE	Hoffman, W.F. et al[22]
	W	Westerhout, G.[23]

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

Sources observed to have significant annular extent with respect to the subtense of the detector have this fact noted with an EO in column 12. An EO designation does not necessarily apply to all spectral bands and all observations on a source, but indicates that it was measured as extended in one or more colors a majority of the times it was observed. Determining the extent of a source is best done before the data are digitally filtered. Occasionally, a source may be in a region where a baseline shift occurs, due to telescope stepping to a new elevation for instance. This source may then be measured as extended when in reality it is not. Thus, the EO designation is indicative, but not definitive.

Additional associations with the catalogs in order 5 above (NGC, IC, etc.) and associations with the Ohio State Radio Catalog edition 40,[24] 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.

*Because of the many references mentioned in the above text, refer to Reference Page No. 153 for References 10 through 24.

COLUMN 15 - OBSERVATIONAL RECORD

This nine character word represents the observing log for the source. The first character contains information on flight number 1, the second on flight number 2, etc., (see Table 1). The occasional tenth digit means that the source was confirmed on the more sensitive limited area survey flown on 16 February 1974 (Julian Date 2442094.3).

A zero designates that the area containing the source was not scanned on that flight. Detection of a source during a flight is represented by a number in the appropriate character. The value of that character is a coded representation of the colors in which the source is observed. For the first seven flights, and flight 10, the 4.2 μm observation was coded 1, the 11.0 μm coded 2 and 19.8 μm coded 4. For the eight 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 at
1	4.2 or 27.4 μm
2	11.0 μm only
3	4.2 μm plus 11.0 μm or 27.4 μm plus 11.0 μm
4	19.8 μm
5	4.2 μm plus 19.8 μm or 27.4 μm plus 19.8 μm
6	11 and 20 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, that is, w_c equals a 0 or 1/2. A plus (+) designates that the source was scanned on that flight and should have had a signal-to-noise ratio high enough to be seen in at least one of the measured colors but was not (w_c equals 1). Note that a plus on one flight may not be for the same color as a plus on another but denotes a worst case (maximum w_c situation).

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	-D '	S									D	D	
5	0 0 42	55 25.1	16	1.8	.1(.3)	-1.4(.3)			60001		Y CAS	116	-7	C30300300
7	0 1 13	66 25.3	17	1.7	1.0(.3)				70002	9099	DO 44038	B 118	4	0701011100
8	0 1 54	39 49.7	14	1.9	1.5(.3)				40001		SV AND	113	-22	0101000C0
9	0 1 59	41 50.6	12	1.5	1.2(.3)				40002	9105	DO 44062	114	-20	0101000000
12	0 3 40	69 46.4	21	1.6	1.1(.3)				70003		SVS 3	119	8	010+12100
3	0 3 54	26 46.8	12	2.2	1.4(.3)				30002		TT PEG	111	-35	0101000000
14	0 4 15	42 49.2	15	1.8	.3(.3)	-2.5(.3)	-3.2(.4)		40004		CIT 1	114	-19	030700000
17	0 5 11	-25 45.6	8	2.7	1.3(.4)	-.3(.4)			-30002		SY SCL	40	-60	0000030700
18	0 5 53	-17 51.9	8	2.6	1.4(.3)				-20001	18	GC 129	75	-76	0000011100
20	0 6 14	33 35.2	13	2.1	1.5(.3)							113	-28	0101000000
21	0 6 28	58 52.7	15	1.8	.9(.3)				60004	21	BET CAS	118	-3	0101000100
22	0 6 59	63 40.4	25	1.9	.9(.3)	.4)			60005		DO 22804	118	1	0103007C0
24	0 7 38	54 36.6	16	1.8	1.5(.3)		-4.3(.5)		50001		TT CAS	117	-8	0101004C0
27	0 7 49	28 21.9	13	2.2	1.4(.3)				30005		DO 8213	112	-33	0101000000
28	0 8 7	31 58.1	11	1.8	.4(.2)				30006		DO 8220	113	-30	0101000000
29	0 8 23	-12 51.4	6	1.4	1.2(.3)				-20003		SVS 12	73	-77	0000011C00
32	0 9 28	-24 53.4	8	3.6	1.2(.3)				-20004			47	-81	0000011700
37	0 11 56	-8 3.8	7	2.1	.2(.3)				-10005	46	SVS 24	97	-69	0001011C0
38	0 12 1	-19 12.2	14	3.9	-.2(.4)	-.5(.4)			-20006	48	7 CET	75	-78	0000003700
4001	0 12 5	19 56.2	17	3.0	.2(.3)				20004	45	CHI PEG,EO	111	-42	0001000000
40	0 12 54	-32 19.2	7	1.8	-.4(.3)	-1.4(.4)			-30006		S SCL	359	-81	0000003320
41	0 14 3	49 11.5	13	1.4	1.5(.3)				50004		DO 23136	117	-13	0101006000
42	0 14 7	1 36.2	9	2.2	1.1(.3)		-3.7(.4)		6		DO 59	105	-60	0000500000
43	0 14 18	9 59.0	16	3.3	1.3(.3)				10001		DO 60	109	-52	0001000000
45	0 14 26	74 20.2	38	2.5	1.4(.3)				70007		DO 23047	121	12	0701011100
47	0 15 44	16 4.9	15	3.1	1.6(.3)							112	-46	0001000000
48	0 16 50	-9 5.7	7	2.0	.8(.3)		-3.4(.4)		-10006	74	IOT CET	99	-70	0001005100
50	0 17 14	44 25.4	12	1.4	.1(.2)	-1.1(.3)			40006		VR AND	117	-18	0203000000
53	0 19 15	-20 19.7	8	2.7	-1.3(.3)	-1.7(.3)			-20007	85	T CET	78	-85	0000003700
55	0 19 35	58 55.6	22	1.9	1.6(.3)						FR CAS	119	-3	0101000000
4002	0 20 7	-66 29.2	40	2.7		-1.7(.4)						308	-51	0000000020
57	0 20 21	55 31.2	14	1.8	-1.7(.3)	-2.6(.3)			60009		T CAS	119	-7	0303003300
56	0 20 30	38 27.9	14	2.0	1.3(.3)				40008		DO 8541	117	-24	0101000000
59	0 21 7	38 18.2	14	2.0	-.9(.3)	-2.9(.3)	-3.5(.4)		40009	90	R AND	117	-24	0307000000
60	0 22 11	69 52.1	15	1.3	1.2(.4)	-.8(.4)			70008		SVS 49	121	7	0101031100
62	0 22 26	47 23.0	22	2.2	1.8(.3)							118	-15	0701000000
64	0 23 46	-42 37.8	9	2.7	-.3(.3)				-40004E	99	ALF PHE	320	-74	0000011100
66	0 24 26	-6 54.9	11	2.7	-.3(.3)	-1.4(.4)			-10009		UY CET	106	-69	0000300300
67	0 24 29	69 21.4	15	1.4	.6(.4)	-2.1(.3)						121	7	0303032300
68	0 24 49	35 19.1	13	2.0	1.0(.3)	-1.3(.3)			40010		AQ AND	117	-27	0303000000
70	0 25 15	-33 17.0	8	1.8	-.3(.3)	-1.3(.5)			-30006E	105	ETA SCL	343	-82	0000011120
71	0 25 27	17 37.3	17	3.3	-.4(.3)	-1.2(.4)	-2.5(.4)		20007	103	47 PSC	115	-45	0000700000
72	0 25 29	-4 14.3	16	4.1	.8(.4)							108	-66	0007001C0
4003	0 25 35	31 19.8	19	2.7	1.6(.3)						EO	117	-31	0701000000
73	0 25 7	43 8.9	16	1.9	1.0(.3)				50007		DO 23365	119	-14	0101003000
76	0 27 21	82 20.3	62	1.3	1.2(.3)						AD CEP	122	20	010+12700
75	0 27 24	-4 15.4	12	3.4	1.2(.4)				10	117	12 CET	110	-66	000+00100
82	0 29 39	25 45.6	18	3.0	.9(.3)				30012		TU AND	118	-37	0001000003
4004	0 31 3	-7 56.0	2	1.7			-3.2(.4)					110	-70	0007047C0
85	0 32 57	-11 46.0	9	2.8		-1.5(.3)						109	-74	000+02200

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
88	0 33 57	48 40.4	16	1.9	1.0(.3)				50010		DO 23564		120	-14	01?100000
89	0 34 3	44 12.2	15	1.9	1.2(.3)				40011	152	GC 726		120	-18	01?100000
90	0 34 27	53 26.1	18	1.6	1.7(.3)				50011		DO 23568		121	-9	01?100000
4005	0 35 11	45 19.7	21	2.2	1.3(.3)				50012		BZ AND.ED		120	-17	0??100000
92	0 36 11	59 24.7	15	1.5	1.4(.3)	-.6(.5)			60015		FZ CAS		121	3	01110?200
94	0 36 26	30 35.2	19	2.9	.2(.3)				*30014*	165	DEL AND		120	-32	0001?0000
96	0 36 55	37 56.5	14	2.0	1.6(.3)				40012		DO 8439		120	-25	01010?0000
4006	0 37 20	-57 7.1	29	3.0		-3.0(.4)							306	-60	00000?0?20
99	0 37 31	59 12.7	17	1.7	1.7(.4)	-1.1(.4)			60016		DO 23637		122	-3	031?00100
100	0 37 42	56 16.2	12	1.4	-.5(.3)	-.5(.4)			60017	168	ALF CAS		121	-6	0313?0:0?
104	0 39 59	41 .5	14	1.4	1.8(.3)				40013		NGC 224	M	121	-22	0?11?0?00
106	0 41 5	-18 17.3	8	2.3	-.6(.3)				-20010	188	BET CET		111	-81	0?0?01100
4007	0 41 37	-10 55.0	15	3.6	1.3(.3)				-10012	194	PHI1 CET		117	-73	00?10??00
107	0 42 29	68 55.6	16	1.6	.9(.4)	-1.5(.4)			70012				122	6	02+22?3?0
108	0 43 55	15 12.4	10	2.4	-.1(.3)				*20012*	211	57 PSC		121	-47	0?01?0?00
109	0 44 53	32 25.4	13	1.7	1.2(.3)	-.5(.4)			30015		RW AND		122	-30	00130?000
111	0 46 11	7 19.1	16	3.4	.6(.3)				10007	224	DEL PSC		122	-55	0?01?0?00
113	0 46 30	56 46.0	15	1.7	1.5(.4)				60021		DO 23796		123	-6	01?100?10
115	0 47 25	-16 45.0	10	2.7	1.9(.4)		-3.3(.4)						121	-79	00?50??00
116	0 48 22	62 38.9	16	1.3	.9(.3)				60023		VY CAS		123	0	01110?100
117	0 48 25	61 32.9	19	1.6	1.1(.3)		-3.2(.5)		60022	237	DO 23820		123	-1	0141??0?0
120	0 49 21	59 25.9	17	1.9	1.3(.4)				60024		V451 CAS		123	-3	0?11?0?00
4008	0 49 42	49 26.0	22	1.5	1.5(.3)				50017		DO 23863		123	-13	0?1?0?000
121	0 49 53	69 41.3	18	1.8	1.5(.3)				70013		DO 23858		123	7	0?111??00
122	0 49 55	47 8.3	16	1.5	1.2(.3)	-1.1(.4)			50016		RV CAS		123	-15	0?13?0000
123	0 50 25	-1 25.5	9	2.3	.7(.3)				13	248	20 CET	R	124	-64	0001?0000
124	0 50 26	17 15.7	17	3.3	1.2(.3)								123	-45	0001?0000
126	0 50 56	6 33.9	16	3.6	1.4(.3)								124	-56	0001?0000
127	0 52 0	48 25.3	17	2.1	1.2(.3)				50020	256	DO 23892		124	-14	01?1?0000
128	0 52 6	58 42.0	17	2.0	1.6(.4)				60027	253	UPS1 CAS		123	-4	01+1?01?0
129	0 52 31	24 16.8	12	2.0	.9(.3)				20014	259	DO 8568		124	-38	0011?0?00
132	0 53 28	57 43.5	16	1.5	1.5(.3)		-2.5(.5)		60029	260	DO 23903		124	-5	0?150?0?0
133	0 53 41	60 27.7	18	1.9	1.4(.4)				60031	264	GAM CAS		124	-2	0?11?0100
134	0 53 53	48 26.2	13	1.5	.5(.3)				50021		KS CAS		124	-14	0111?0?00
135	0 53 57	58 53.6	22	2.2	1.7(.3)				60030	265	UPS2 CAS		124	-4	01?1?0?0?
136	0 54 24	23 9.3	12	2.0	1.8(.3)				20015	271	ETA AND		125	-39	0011?0?00
137	0 54 32	58 9.2	13	1.5	.8(.4)	-.4(.4)			60032		DO 23916		124	-4	0113?0100
141	0 57 41	56 21.2	20	1.8	.9(.3)				60033		V365 CAS		124	-6	0+11?0000
143	0 57 59	-1 57.0	15	3.6	1.1(.3)				14		DO 137		128	-64	0001?0?00
144	0 58 39	29 39.9	17	2.0	1.5(.3)								125	-33	001?00?00
147	1 0 6	52 52.5	19	2.2	1.2(.3)				50023		DO 23993		125	-10	01?1?0?00
149	1 1 9	74 33.3	22	1.5	.4(.3)	-1.2(.3)			70016		DO 23987		124	12	01331+300
152	1 2 19	18 53.7	18	3.5	1.6(.3)				20017		DO 8641		127	-44	00?1?0?00
153	1 2 38	85 57.4	105	1.9	1.3(.3)						BRIGHT NEB		123	23	010113?00
154	1 2 47	65 33.3	25	2.7	1.3(.4)				70017		DO 24036		124	3	0?+1?1?0?
156	1 3 4	-32 .4	8	2.2	1.1(.3)				-30013		SVS 119		270	-84	0?0?01100
157	1 3 40	12 19.1	9	1.7	-.4(.3)	-3.4(.3)	-4.9(.3)		10011		CIT 3		129	-50	0067?0000
158	1 3 50	-20 49.0	7	2.2	1.3(.3)		-3.2(.5)						151	-83	0004?1100
160	1 5 20	63 18.2	25	2.1	1.6(.3)				60039		HS CAS		125	1	0?1100?00
161	1 6 5	-10 28.0	7	2.2	.4(.3)	-1.0(.4)	-4.0(.5)		-10018	334	ETA CET		137	-73	000101?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	O '	S '										O	O	
162	1 6 25	-5 50.8	15 3.7		1.3(.3)								135	-68	000107000
163	1 6 48	65 52.6	20 2.3		1.2(.3)				70018				125	3	07+101100
164	1 6 52	35 21.5	9 1.6		-2.0(.3)	-2.3(.3)			40019	337	BET AND		127	-27	003000000
165	1 7 30	15 26.0	12 2.2		1.7(.4)		-2.8(.4)		20018	344	DO 8669		130	-47	004500007
167	1 8 2	53 28.6	15 1.5		.8(.3)	-1.3(.4)			50030		HV CAS		126	-9	013300000
168	1 8 20	30 22.4	17 2.0		1.3(.3)	-1.3(.3)			30021				128	-32	003000000
169	1 8 44	-13 47.2	7 2.0		1.2(.3)	-.9(.5)			-10019		GC 1439		143	-76	000103100
172	1 9 39	-3 40.9	15 3.7		1.9(.3)								136	-66	000100000
175	1 9 53	67 31.5	27 2.5		1.5(.3)				70019		DO 24136		125	5	01???1?00
177	1 10 23	62 42.0	17 1.7		-.0(.3)	-1.3(.2)			60041		DO 24139		125	0	033300+00
179	1 10 52	25 53.0	17 2.1		1.3(.3)				30023		RT PSC		129	-35	001000000
182	1 11 42	-2 26.5	15 3.7		.7(.3)				17		DO 178		136	-64	000100000
184	1 11 49	66 23.6	16 1.6		1.2(.3)	-.5(.4)			70020		DO 24265		125	4	013101100
186	1 12 27	71 27.6	19 1.7		1.0(.3)	-1.9(.4)	<-5.0(.5)		70021		DO 24161		125	9	01+112500
188	1 13 18	25 30.7	17 2.1		.3(.3)				30025		Z PSC		130	-37	001000000
190	1 14 25	66 57.2	15 1.5			-1.9(.3)	-3.5(.9)						125	4	066606200
189	1 14 32	59 2.2	14 1.6		1.3(.3)		-3.0(.7)		60042		BQ CAS		126	-3	011100400
192	1 14 50	13 38.8	16 2.4		1.1(.3)				10013		DO 187		132	-48	001+00000
193	1 15 0	57 32.7	20 1.9		.1(.2)				60043		V465 CAS		126	-5	011+00000
194	1 15 50	72 21.1	20 1.4		-.1(.3)	-2.6(.4)	-3.4(.4)		70024		S CAS		125	10	076733+00
195	1 16 5	35 29.9	18 1.9		1.7(.3)								129	-27	001000000
197	1 16 17	56 4.0	14 1.4		1.2(.3)	-2.2(.4)			60044		AA CAS		127	-6	031100000
200	1 17 13	63 43.7	26 2.4		1.3(.3)				60047		DO 24231		126	1	01+10??00
203	1 18 47	66 32.6	25 2.8		1.5(.3)				70026				126	4	0??10?100
205	1 19 40	61 35.6	16 1.7		2.2(.8)	-1.3(.4)	-3.5(.5)				SHARP. 187	R	127	-1	026600700
206	1 19 42	1 52.0	11 2.3				-3.9(.4)						138	-60	004400000
210	1 21 35	-8 26.8	10 2.8		.9(.3)				-10021	402	THE CET		147	-70	000101000
211	1 21 37	60 48.9	15 1.7		1.2(.3)	-.7(.5)			60048		BT CAS		127	-2	011300200
214	1 24 26	16 40.5	15 2.9		1.7(.3)								135	-45	007100000
215	1 24 38	-32 49.7	8 2.7		-.9(.3)	-1.9(.3)			-30015	423	R SCL		250	-81	000003300
216	1 25 5	16 25.9	12 2.2		1.5(.3)				20025		ST PSC		135	-45	001100000
218	1 26 7	-43 36.3	11 3.8		-.7(.4)	-1.5(.4)			-40010E	429	GAM PHE		281	-72	000000370
220	1 26 10	51 24.6	14 1.9				-3.1(.4)		50036		DO 24371		129	-11	044000000
224	1 27 38	5 53.3	9 1.9		1.1(.3)				10017	434	MUU PSC		140	-55	001100000
225	1 27 44	15 25.0	17 3.7		1.8(.3)								137	-46	007100000
226	1 28 11	2 37.9	11 2.4		1.2(.3)	-.7(.4)			19		R PSC		142	-59	003100000
227	1 28 30	62 4.4	17 1.8		1.3(.3)				60053		IM CAS		128	-0	011100?00
228	1 28 53	15 4.0	11 2.4		1.1(.3)		-3.1(.4)	-6.2(.7)	20026	437	ETA PSC		137	-46	007500001
230	1 30 40	62 10.9	20 1.9		1.6(.3)	-1.6(.3)	-3.5(.3)				DO 24562.EQ		128	-0	036700+00
231	1 31 16	65 32.2	19 1.9		1.1(.3)				70029		DO 24475		127	3	0+110100
236	1 34 6	7 35.1	11 2.4		1.4(.3)				10019		SVS 100126		142	-53	001100000
237	1 34 42	48 22.0	23 2.1		.5(.3)				50041	464	51 AND		131	-14	0+1000000
240	1 35 29	65 15.7	26 2.9		1.4(.3)	-.6(.4)			70030		DO 24571		128	3	07+301?00
243	1 38 50	5 15.6	16 4.0		.9(.3)				10020	489	NUU PSC		145	-55	00+100000
245	1 39 57	28 18.0	17 2.0		1.6(.3)							R	136	-33	001000000
247	1 43 59	10 8.1	12 2.4		2.0(.3)				10022		DO 294		144	-50	001100000
4009	1 43 59	-24 47.5	13 3.9		1.9(.4)	-1.1(.4)							204	-77	000307?00
250	1 46 4	29 34.7	17 1.9		*	-1.6(.4)							138	-31	002000000
251	1 47 18	64 37.1	26 2.1		1.2(.3)	-1.1(.4)			60066		DO 24852		129	3	031+0??00
252	1 47 24	-5 6.4	11 2.5		1.3(.3)				-10025		SVS 169		158	-64	001107000

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
253	1 47 30	53 28.0	18	2.1	.3(.3)	-1.3(.3)			50046		TT PER		132	-8	032000000
254	1 47 48	-13 6.9	8	2.7	1.3(.3)				-10026		GC 2224	R	170	-70	00010+100
4010	1 48 3	-23 5.1	13	3.9	1.6(.3)								196	-76	000102?00
4011	1 48 13	-17 52.3	9	2.3	1.4(.3)				-20019				181	-73	000102?00
255	1 48 58	-10 36.1	8	2.1	.9(.3)				-10027	539	ZET CET		166	-68	001101000
256	1 49 3	-6 41.9	11	2.5			-3.5(.4)						160	-65	004?04000
257	1 49 3	38 53.9	19	1.8	1.4(.3)				40030		DO 8951		136	-22	001000000
4012	1 49 41	-2 31.4	15	2.9	1.6(.3)								156	-61	001?02000
259	1 50 33	59 55.3	22	2.2	1.2(.3)				60067		SVS 100140		131	-2	011000?00
261	1 51 39	-46 32.1	10	3.7	-.6(.4)					555	PSI PHE		274	-67	000000100
262	1 51 47	8 30.7	11	2.4	1.3(.3)	-1.0(.4)			10023		SVS 100145		148	-51	001300602
265	1 52 20	69 58.2	18	1.7	1.1(.3)				70032		V391 CAS		128	8	011??2100
4013	1 52 46	16 56.3	16	2.4	1.2(.3)				20032		DO 8984.EO		144	-43	001000000
273	1 53 30	89 0.0	270	1.4	.5(.3)					424	ALF UMI		123	28	110111100
272	1 54 20	-22 46.7	7	2.2	1.5(.4)				-20021	565	56 CET		199	-75	000101100
274	1 54 49	27 33.8	8	1.8	1.2(.3)				30032	564	DO 8991		140	-33	001000000
276	1 55 13	30 53.7	8	1.7	-.1(.3)	-1.1(.4)			30033		DO 8992		139	-30	003000000
277	1 55 16	-48 45.3	10	3.7	.4(.4)								276	-65	000000100
278	1 55 31	45 11.7	22	2.2	-1.5(.3)	-2.6(.3)	-3.8(.4)		50049		DO 25105		135	-16	007000000
279	1 55 56	-7 19.1	8	2.3	1.6(.3)				-10028		GC 2380		164	-64	001102000
280	1 56 7	54 34.8	19	2.2	.3(.2)	-1.4(.5)			50050		U PER		133	-7	033000000
283	1 57 4	-14 7.9	8	2.1	1.5(.4)	-1.2(.5)			-10029		GC 2403		177	-69	002102300
284	1 57 23	-21 3.1	6	1.9	.8(.3)	-.6(.4)			-20023	583	57 CET		195	-73	000103100
285	1 57 28	63 53.4	18	1.8	1.5(.3)	-.8(.5)			60071		DO 25157		130	2	023203?00
286	1 57 37	-21 19.1	6	2.1	-.2(.3)	-.9(.4)			-20024	585	UPS CET		195	-73	000302100
287	1 57 57	-8 47.4	7	1.7	-.6(.3)	-1.2(.4)			-10030	587	SVS 187		167	-65	003301000
289	1 58 26	61 41.1	17	2.1	1.6(.4)				60072		DO 25165		131	0	012001100
4014	1 58 44	0 14.6	16	3.0	1.4(.3)								157	-58	001?02000
290	1 59 48	13 14.9	16	2.6	.8(.3)				10024	601	DO 355		148	-46	001000000
292	2 0 16	7 27.9	16	2.8	-.2(.3)	-1.6(.3)			10025		IC 1772.EO		152	-51	003000002
294	2 0 45	42 5.8	21	2.3	*	-1.1(.4)			40034	603	GAMI AND		137	-19	002000000
295	2 1 6	-4 21.0	11	2.5	1.2(.3)				29	611	GC 2485		163	-61	00110+000
4015	2 3 27	-28 1.2	11	3.6	<.6(.4)								219	-74	000?02100
297	2 3 40	-10 27.3	8	2.2	.7(.3)	-1.1(.4)			-10032		UZ CET		173	-66	003101000
4016	2 4 14	-67 45.0	41	3.5		-2.1(.4)							292	-48	0000C0020
299	2 5 22	51 33.4	25	2.6	.4(.3)				50054		DO 25330		135	-9	001000000
301	2 6 21	-18 1.9	11	2.6	1.2(.3)				-20027	625	GC 2569		189	-70	001+01?00
303	2 7 55	19 16.9	16	2.5	.6(.3)				20041	631	15 ARI		147	-40	001000000
4017	2 8 28	47 33.4	23	2.7	1.6(.3)							EO	137	-13	001000000
4018	2 8 41	-4 23.0	15	4.0		-1.1(.4)							166	-60	007?02000
305	2 8 41	63 56.1	14	1.6	1.1(.3)				60075		SHARP. 189		132	3	011101100
4019	2 13 29	0 17.4	16	3.0	1.4(.3)							R	163	-56	001?02000
310	2 14 18	44 4.3	22	2.6	-.8(.3)	-1.4(.3)			40037		W AND		139	-16	003000000
311	2 14 25	78 31.8	28	1.8	1.0(.4)	-.6(.4)			80005		AG CEP		127	17	01+1?3100
313	2 15 28	57 12.0	16	2.2	1.4(.3)				60078		BU PER		135	-3	0+1000000
314	2 15 46	-14 22.7	7	2.2	1.2(.3)				-10033				185	-66	002101100
317	2 16 36	24 12.3	17	2.2	1.4(.3)								147	-34	001000000
318	2 16 51	-3 11.7	5	1.1	<-3.9(.2)	-5.1(.3)	-6.0(.4)	-6.6(.6)	30	681	OMI CET		168	-58	007707007
319	2 18 2	60 41.6	23	2.5	1.3(.3)				60084		DE CAS		134	-0	0+1001?00
320	2 18 43	56 52.0	17	2.0	.7(.4)	-1.0(.3)			60087		RS PER	R	135	-4	013003000

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
321	2 19 17	0 10.9	9	2.2	.7(.3)				31	689	69 CET	165	-55	001101000
323	2 19 21	58 22.4	13	1.6	.2(.3)	-2.8(.3)	-3.7(.4)		60088		S PER	135	-2	017007000
4020	2 19 23	-53 53.3	25	3.6		-3.0(.4)	-4.6(.4)					277	-59	000000060
326	2 21 53	61 51.7	15	1.8	1.0(.3)	-3.6(.3)	-6.9(.4)				NGC 896.EO.R	134	1	077007700
327	2 22 0	57 11.6	16	2.1	1.2(.4)		-3.0(.4)		60090		DO 25684	135	-3	01500?000
4021	2 22 6	38 34.8	20	2.4			-3.0(.4)				EO	142	-21	004000000
4022	2 22 20	50 3.5	25	2.9	.8(.3)				50060	699	65 AND.EO	138	-10	001000000
328	2 23 10	62 3.1	15	1.8		-1.6(.4)	-4.6(.4)				W 3 R	134	1	066006600
331	2 23 22	61 38.8	24	2.5		-2.0(.4)	-3.5(.4)					134	1	0+4006+00
332	2 23 34	60 28.5	14	2.2	1.1(.3)	-1.4(.3)			60091			134	-0	0+300?300
333	2 24 13	61 18.1	17	2.0		-1.1(.4)					W 4.EO	134	1	0+200?200
335	2 24 44	51 5.4	26	3.0	.4(.3)	-.6(.4)			50062		RR PER	138	-9	003000060
337	2 26 57	-26 20.0	6	1.9	-.8(.3)	-2.6(.3)			-30021		R FOR	216	-68	000302300
339	2 26 14	-22 44.6	6	2.0	1.4(.4)		-2.9(.5)		-20033	735	GC 3015	207	-67	00510+100
340	2 29 10	76 29.8	28	1.8	1.1(.4)				80006		GC 3033	129	15	011??2100
341	2 29 15	57 50.2	20	2.5		-1.2(.3)						136	-2	0+20020002
342	2 29 22	14 14.6	16	2.7	1.3(.3)							156	-42	001000000
347	2 30 29	45 25.2	12	2.3	-.3(.3)	-2.1(.3)	-2.8(.4)		50068		UX AND	141	-14	007000000
348	2 31 19	-13 20.9	7	2.3	1.7(.3)				-10035		U CET	188	-62	001?0?100
349	2 31 41	64 56.2	15	1.5	.2(.3)	-2.8(.4)	-4.4(.4)		60092		CIT 4	134	4	027003300
4023	2 32 11	21 38.9	17	2.5	1.5(.3)						EO	153	-35	001000000
350	2 32 35	53 16.0	15	2.4	1.2(.3)				50069		EE PER	138	-6	001000000
351	2 32 36	34 28.1	18	2.4	.3(.3)	-.7(.4)			30043	750	15 TRI	146	-23	003000000
4024	2 32 53	-70 53.4	47	3.6		-2.1(.4)						291	-44	000000020
352	2 33 4	-42 24.7	10	3.8	.7(.4)				-40016E		GC 3112	255	-64	000000100
354	2 33 37	-8 2.3	8	2.2	1.2(.3)				-10037	759	80 CET	180	-59	001101000
355	2 34 4	34 2.4	18	2.4	-.1(.3)	-.6(.4)			30044	758	R TRI R	147	-24	003000003
357	2 35 14	-27 10.5	7	1.9	-.3(.3)	-2.7(.4)	-3.4(.4)		-30023			219	-66	003707300
359	2 36 3	59 21.4	16	2.2	1.3(.3)				60094		GP CAS R	136	-0	0??0011001
360	2 36 6	80 55.6	51	2.2	1.6(.4)		-2.0(.5)				RR CEP	127	19	01??51?00
361	2 36 16	60 12.3	19	2.7		-2.0(.3)	-3.1(.5)					136	0	06+00?200
363	2 36 40	6 8.3	17	3.8			-3.7(.4)					165	-48	00?004007
365	2 36 55	39 37.3	21	2.8	.9(.3)				40047		DO 9448	145	-18	001000000
4025	2 37 5	-6 28.1	13	4.1	1.4(.3)							179	-57	00?10?000
367	2 38 6	30 59.0	17	2.2	.9(.3)				30046		Y ARI	149	-26	001000000
369	2 39 55	-5 46.6	10	2.7	1.9(.3)						NGC 1063	179	-56	00110?000
371	2 40 47	36 2.4	19	2.6		-1.1(.4)			40049		TV PER	147	-21	002000000
372	2 42 17	-29 27.5	7	2.2	1.3(.3)				-30025		ST FOR	224	-65	000101100
373	2 42 40	62 48.5	18	1.9	.7(.3)	-.7(.4)			60095		CQ CAS	136	3	013003+00
377	2 45 6	29 3.4	17	2.2	1.7(.3)				30050	824	39 ARI R	151	-27	001000000
378	2 45 29	-12 39.3	6	1.6	.2(.3)	-1.0(.4)			-10040	832	Z ERI	190	-59	003303307
379	2 45 34	17 17.9	10	1.9	-.3(.2)	-.9(.4)	-3.1(.5)		20049		T ARI	159	-37	00100700
380	2 45 49	60 50.3	19	2.3	.9(.3)				60096			137	1	0+1001+001
381	2 46 36	56 46.0	17	2.1	.7(.3)	-1.3(.3)	-3.3(.5)		60097		W PER	139	-2	003004000
4026	2 46 52	60 32.2	24	2.8	1.8(.5)				60098		DO 26251	137	1	0?100??001
382	2 46 58	55 40.9	17	2.4	-.2(.3)				60099	834	ETA PER	139	-3	00100+000
384	2 47 7	57 39.4	19	2.4	1.5(.3)				60100		DO 26272	138	-1	0010010001
383	2 47 12	-45 3.6	12	3.8	.8(.4)							258	-61	000000100
4027	2 47 26	59 3.1	21	3.0	1.3(.4)				60101		CAS GS	138	-0	00?00?1001
385	2 48 29	34 51.0	19	2.6	.4(.3)				30051	843	17 PER	149	-22	001000000

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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
386	2 48 44	53 48.1	20	2.4	.9(.3)	-.5(.5)			50076			140	-5	001003000
387	2 48 56	54 40.7	20	2.4			-3.1(.4)					140	-4	004004000
389	2 49 13	14 12.8	12	2.3		-.8(.3)						162	-39	002002000
392	2 49 48	-8 28.3	7	1.9	.1(.3)				-10041		RR ERI	185	-56	001101000
393	2 50 15	74 7.4	20	1.5	1.5(.4)	-1.2(.4)			70039		DO 26303	131	13	011131100
396	2 51 9	9 7.2	12	2.4	.0(.2)				10033		DO 487	166	-43	001001000
4028	2 52 21	64 9.3	27	4.0	1.0(.4)				60104	861	SVS 100245	136	5	0?+00?100
400	2 53 5	54 27.0	20	2.4	.1(.3)	-.3(.4)			50030		ER PER	140	-4	003003000
401	2 53 8	18 7.5	12	2.2	-1.4(.3)	-1.3(.3)			20051	867	45 ARI	160	-35	003002000
403	2 54 0	-9 5.1	7	1.8	.9(.3)		-3.1(.6)		-10043	874	ETA ERI	187	-55	001101004
404	2 54 7	14 25.1	17	3.0	.7(.3)				10034		DO 9638	163	-38	00100+000
405	2 54 21	4 19.5	12	2.5	.7(.3)				36	877	DO 492	171	-46	001001000
406	2 55 15	62 54.8	20	2.4	1.6(.4)				60107		DO 26463	137	4	01?00?100?
409	2 56 52	41 19.3	22	3.1		-1.8(.4)						147	-15	002002000
410	2 57 11	43 58.3	22	2.6	.7(.3)				40052		AE PER	146	-13	00+001000
4029	2 57 17	60 16.9	19	2.4			-3.6(.6)				LX CAS	138	2	004004004
412	2 58 12	13 46.7	17	3.0	1.6(.3)							164	-38	001002000
413	2 58 17	-3 3.6	11	2.5	1.1(.3)				37	904	7 ERI	180	-51	001+01000
414	2 58 34	21 36.3	10	2.5	.8(.3)		-3.1(.4)		20052			159	-32	000005000
416	2 59 13	60 18.5	18	2.3		-.4(.5)					SHARP. 201	138	2	00200220002
418	2 59 36	79 12.8	31	1.7	.8(.3)				80007	881	DO 26502	129	18	0+?111100
419	2 59 42	3 53.1	12	2.5	-2.0(.2)	-1.9(.3)			38	911	ALF CET	173	-46	003003000
425	3 1 13	53 18.3	19	2.4	.8(.3)				50084	915	GAM PER	142	-4	001001000
428	3 1 54	38 38.8	11	1.6	-2.5(.3)	-2.5(.3)			40054	921	RHO PER	150	-17	002003000
432	3 2 26	75 33.5	25	1.7	1.0(.3)				80008		DO 26603	131	15	011??2100
434	3 3 0	55 33.6	20	2.4	.4(.3)	-2.2(.3)	-3.5(.4)		60110		10 PER	141	-2	007007000
437	3 3 58	58 16.7	15	3.0		.1(.4)	-3.1(.4)					140	0	000602?00
439	3 4 3	-6 17.0	7	2.0	.2(.3)				-10045	935	GC 3718	186	-52	001101000
440	3 4 3	58 50.2	17	2.1	1.1(.4)				60112		DO 26691	140	1	001001100
441	3 4 9	-47 3.5	14	3.9	-.2(.4)							259	-57	000000100
443	3 4 59	40 46.4	14	1.8	1.6(.3)		-2.5(.5)		40055	936	BET PER	149	-15	001005000
449	3 6 21	44 40.1	16	2.1	1.0(.3)				40057	941	KAP PER	147	-11	001001000
453	3 7 38	57 42.6	13	1.6	.2(.3)	-.7(.4)			60113		DO 26767	141	-0	003001100
454	3 8 4	-47 56.8	14	3.9	*		-5.1(.5)					260	-56	000000400
455	3 8 24	14 35.8	17	3.3	.4(.3)	-.5(.4)			10040		U ARI	166	-36	000003000
4030	3 8 33	-56 32.4	25	3.8			-5.3(.4)					272	-52	000000040
457	3 8 49	74 3.2	24	1.9	1.2(.4)		-3.1(.5)		70040		DO 26751	132	14	0?1+41100
458	3 8 56	-33 43.8	8	2.7			-4.2(.4)					234	-59	00+400400
461	3 9 54	6 29.2	17	3.4	1.4(.3)				10041	958	GC 3827	173	-42	001002000
4031	3 9 57	-29 12.3	12	3.9	1.2(.4)				-30028	963	ALF FOR	225	-59	00??02100
463	3 11 22	-44 35.6	14	3.9	1.1(.4)							254	-57	000000100
464	3 11 58	46 23.9	13	1.9	.6(.3)	-.7(.4)			50090		AA PER	147	-9	003001000
466	3 12 14	64 34.1	18	2.1	1.1(.3)	.1(.4)			60116		DO 26859	138	6	01300+1003
465	3 12 16	-2 31.8	15	3.6	1.6(.3)				41		DO 531	183	-48	00?001000
467	3 12 32	45 10.2	13	2.1	1.3(.3)				50092	973	GC 3884	148	-10	001001000
471	3 14 48	32 45.5	18	2.5	.6(.3)				30056		DO 9849	155	-21	000001000
472	3 14 53	81 58.5	56	2.1	1.7(.3)						DO 26771	128	21	01?1?1?00
4032	3 15 5	-9 36.2	11	3.9	1.8(.3)							193	-51	00?10??00
474	3 17 14	31 49.4	18	2.6	.6(.3)	-.8(.4)			30061		UZ PER	156	-21	000003000
475	3 17 22	-21 57.1	6	1.6	-1.5(.3)	-1.5(.3)	-3.3(.5)		-20041	1003	TAU4 ERI	212	-56	003307707

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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
476	3 17 25	-24 18.0	6	1.7	1.0(.3)	-.8(.4)			-20042	1004	GC 3983		216	-57	00110130?
477	3 17 29	28 51.5	18	2.8	.5(.3)				30062	999	DO 9880		158	-23	0C3001000
481	3 18 20	22 48.3	17	2.9	1.1(.3)								162	-28	000001000
482	3 18 38	70 16.9	18	1.7	.9(.3)	-1.9(.3)	-2.8(.4)						135	11	037+22300
483	3 19 31	32 3.9	18	2.6	1.0(.3)				30065		DO 9900		157	-21	000001000
485	3 20 18	64 25.3	16	1.7	.1(.3)	-1.5(.5)			60117	1009	DO 27024		138	6	0310+13003
487	3 20 49	49 40.6	10	1.8	.1(.2)				50095	1017	ALF PER		147	-6	001001000
489	3 22 56	47 21.2	13	1.7	-.9(.3)	-3.3(.3)	-3.9(.4)		50096		CIT 5		148	-8	007003000
488	3 22 57	-12 30.2	8	2.2	1.6(.4)				-10047		VX ERI		198	-51	00?101100
490	3 23 59	58 35.4	15	3.0		-.6(.4)	-3.1(.4)						142	2	006002?00
491	3 25 11	71 42.1	18	1.8	1.0(.3)				70043	1032	DO 27100	R	135	13	0?111?100
492	3 26 55	47 48.4	16	2.1	.8(.3)	-.9(.4)	-3.1(.4)		50098	1052	SIG PER		148	-7	007001000
4033	3 27 50	-19 24.3	9	3.8		-1.3(.3)	-2.9(.5)						209	-53	00?60??0?
494	3 28 4	-2 5.8	16	3.5	.9(.3)				46		DO 587		186	-44	00+001000
496	3 29 2	19 54.8	17	3.1	1.0(.3)								167	-29	000001000
497	3 30 35	-9 38.9	8	2.3	1.3(.3)	-1.2(.5)			-10048	1084	EPS ERI		196	-48	00110+20?
4034	3 31 30	-12 57.8	15	3.9	1.6(.3)							EO	200	-49	001?0??00
500	3 31 54	-16 20.2	7	1.9	-.4(.3)	-1.9(.3)	-2.5(.4)		-20043		RT ERI		205	-51	00270330?
4035	3 33 16	-18 52.3	8	3.7	1.6(.3)								209	-51	00?10??00
503	3 36 6	-33 .8	8	2.1		-1.5(.4)	-3.2(.4)						232	-54	004600+00
505	3 37 23	62 29.4	14	1.8	-.6(.2)	-1.5(.3)			60124		U CAM		141	6	003003200
506	3 37 44	63 3.0	23	2.8	-.0(.3)	-1.3(.4)			60125	1105	SVS 328		141	6	001002300
507	3 37 57	51 18.3	26	3.9	.3(.3)				50100		SVS 100294		148	-3	00100?000
511	3 38 54	-10 54.4	8	2.2	1.1(.3)		-3.0(.5)		-10049		VY ERI		199	-47	001405?00
512	3 40 44	12 37.4	16	3.1	.7(.3)				10047		DO 633		175	-32	000001000
513	3 40 47	-9 57.4	7	2.0	1.1(.3)				-10050	1136	DEL ERI		198	-46	00110+100
514	3 41 8	80 10.6	30	1.6	-.6(.3)	-1.3(.3)			80009		SS CEP		130	20	03133+300
515	3 41 18	-31 10.4	7	2.2	1.2(.3)		-3.0(.5)		-30030		GC 4458		229	-52	001500102
516	3 41 47	-43 3.1	15	3.9	•	-3.2(.4)	-5.2(.5)						249	-52	000000600
517	3 42 26	53 45.5	27	4.0	1.2(.3)				50103		SVS 341	R	147	-1	00100?000
519	3 43 45	-12 16.1	7	1.9	.0(.3)	-.9(.4)			-10051	1162	PI ERI		202	-46	001301300
4036	3 44 35	-3 55.9	11	2.8	1.8(.3)								192	-42	00100?100
520	3 44 55	65 22.4	17	1.9	-1.0(.3)	-1.3(.3)			70046	1155	SVS 343		140	9	003012300
521	3 44 59	50 41.5	14	1.6	1.2(.4)				50106		DO 27580		149	-3	001001000
522	3 45 56	50 55.5	17	2.2	1.3(.3)				50108		AP PER		149	-3	001001000
523	3 46 3	63 30.4	23	2.8	1.0(.4)				60129		DO 27585		141	7	00102?100
524	3 46 10	67 29.2	25	2.3	1.2(.3)				70047				139	10	0?+011?001
525	3 46 16	-7 9.9	7	1.7	.5(.3)	-1.6(.4)			-10052		BR ERI		196	-43	003101100
4037	3 46 26	-20 58.3	8	2.1	1.3(.3)				-20044	1187	GC 4593		214	-49	00110??00
4038	3 47 25	-18 53.5	16	3.4			-3.5(.6)						211	-48	00??0??04
526	3 48 21	-32 25.9	8	2.6	1.6(.4)				-30031		GC 4640		232	-51	00?100102
527	3 49 5	39 43.5	19	2.2	.6(.3)	-.9(.4)			40070				157	-11	000003000
528	3 49 16	44 55.5	20	1.9	1.0(.3)				40071		DO 27661		153	-7	000001000
529	3 50 55	11 14.3	9	2.3	-1.7(.3)	-4.2(.3)	-5.5(.4)		10050		IK TAU		178	-31	000007000
530	3 51 22	-11 45.6	11	2.7			-3.2(.4)						202	-45	004?04?00
531	3 51 43	57 31.6	20	2.4	1.2(.3)				60133		DO 27693		146	3	001001?00
4039	3 52 56	60 58.2	32	4.1	.7(.4)				60134	1205	GC 4727		144	6	00+002100
534	3 54 5	-13 45.6	8	2.1	1.4(.3)				-10054		GC 4748		205	-45	00?101100
537	3 55 43	-13 39.0	7	1.9	-1.3(.3)	-1.6(.3)			-10055	1231	GAM ERI		205	-44	003303300
4040	3 55 45	-5 48.4	9	3.7	1.7(.3)								196	-41	00010??00

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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
							-3.7(.4)						206	-44	00??04?00
4041	3 56 47	-13 48.0	16	3.4	•				-10056	1235	GC 4791		204	-44	001?0+100
4042	3 57 12	-12 42.1	11	2.9	1.3(.4)		-3.8(.4)						147	3	00+004400
538	3 58 13	57 2.6	20	2.4					70049	1241	GC 4874		139	12	0???1??001
4043	4 1 2	68 33.6	32	3.1	1.4(.4)				-20048		GC 4885		221	-47	001100?00
540	4 1 20	-24 34.2	6	2.2	1.4(.3)				-20049		V ERI		209	-44	007707700
542	4 2 3	-15 53.2	7	1.7	-1.1(.3)	-2.3(.3)	-3.3(.4)		-10059		GC 4935		202	-41	00110?100
543	4 3 32	-10 26.1	8	2.3	1.6(.4)				40074		IY PER	R	157	-7	000001000
545	4 4 20	42 53.2	20	2.2	.9(.3)				70050				139	12	01++???2003
4044	4 5 14	68 33.5	25	2.5	1.2(.4)	-.9(.5)			-10061				200	-40	001101?00
548	4 6 31	-8 14.9	7	1.7	1.2(.3)										
									40077		SW PER		158	-7	000001000
549	4 7 4	42 3.8	20	2.0	1.2(.3)						SHARP. 209	R	152	-0	000006200
550	4 7 15	51 2.5	17	2.1		-.9(.4)	-4.1(.4)		53		DO 717		190	-34	000001100
551	4 8 35	2 14.7	11	2.5	1.0(.3)				-30033		W ERI		222	-45	003300302
552	4 9 25	-25 15.3	7	1.9	.7(.3)	-1.3(.5)			-10062		BM ERI		204	-40	001101100
553	4 11 7	-10 32.0	7	1.9	1.0(.3)				20073		DO 10361		172	-19	000001000
555	4 12 27	23 57.4	17	2.8	.5(.3)				30079				164	-12	000001000
556	4 12 33	33 42.7	19	2.4	1.1(.3)				50115		SY PER		153	0	000001100
558	4 13 1	50 32.2	17	2.1	.6(.3)				60140		ZZ CAM		144	8	0010+1100
559	4 13 15	62 13.5	18	2.0	1.0(.4)							R	217	-43	001?00?00
4045	4 13 36	-21 8.9	14	4.0	1.5(.3)										
									30080		DO 10379		166	-14	000001000
560	4 13 38	31 14.9	18	2.5	.4(.3)						U MEN		296	-32	000000060
4046	4 13 53	-81 59.3	93	4.0		-2.2(.4)	-3.3(.5)						241	-46	00200020?
562	4 15 7	-38 13.7	10	2.7		-2.0(.4)			-20052		RS ERI		214	-42	001100100
563	4 15 37	-18 38.0	7	2.0	.6(.3)				-20053	1345	GC 5202		217	-43	001100+00
564	4 16 1	-20 49.9	8	2.8	.4(.3)				40082		IR PER		160	-6	000003000
565	4 16 28	40 56.7	20	2.1	-.7(.3)	-1.8(.3)			20074	1346	GAM TAU		179	-24	000003000
566	4 16 54	15 31.7	17	3.0	1.3(.3)	-.9(.4)			60141	1335	DO 28206		146	8	001031100
567	4 17 25	60 37.7	15	1.8	1.2(.4)	-1.9(.4)					SX CAM		141	13	0???1??001
570	4 18 52	68 7.2	21	2.3	1.7(.3)								219	-42	00?100300
571	4 19 11	-22 18.7	9	2.7	1.7(.4)	-.3(.5)									
									20075	1370	DO 10422		175	-20	000001000
572	4 19 23	20 42.8	9	2.2	.9(.3)								208	-39	00?302200
574	4 20 42	-13 .3	8	2.1	1.6(.3)	-1.4(.5)			-30029E	1393	43 ERI		235	-44	001100100
579	4 22 18	-34 9.1	8	2.2	.4(.3)				70053		DO 28302		140	14	0?++??3003
4047	4 24 22	69 16.2	29	2.6	1.3(.4)	-.6(.4)							221	-41	00?100?00
4048	4 25 41	-23 10.9	9	3.8	1.8(.3)				10060		R TAU		185	-26	000001300
581	4 25 51	10 .4	12	2.3	.4(.3)	-.8(.4)			40089		GI PER		162	-6	000003000
582	4 26 12	39 46.5	20	2.3	1.0(.3)	-.1(.5)			60143		RV CAM		149	6	003007300
583	4 26 14	57 18.3	15	1.6	.3(.3)	-1.0(.3)	-3.2(.5)		40091		V346 PER	R	165	-9	000007000
585	4 27 7	35 9.9	10	2.0	-.2(.3)	-2.9(.3)	-4.4(.4)		30087		DO 10530		171	-14	000001000
586	4 27 55	27 24.1	18	2.7	.7(.3)										
							-3.9(.4)						175	-17	000004000
589	4 29 4	22 45.2	17	2.9					30088				169	-11	000001000
590	4 29 28	31 .6	18	2.6	.8(.3)								240	-43	00?000307
591	4 29 28	-37 9.6	17	3.8	1.1(.4)	-.9(.4)							187	-26	00000?100
592	4 29 29	8 51.0	17	3.5	1.0(.4)								156	1	000001+00
593	4 29 42	48 36.4	11	1.8	.6(.3)				50121		DO 28391		146	10	007037300
595	4 30 40	62 8.6	15	1.7	-.1(.3)	-1.9(.3)	-3.0(.4)		60144		DO 28489		204	-34	000103100
598	4 31 48	-8 20.1	8	2.1	.4(.3)	-2.1(.4)			-10070	1451	47 ERI		205	-35	00010?100
599	4 31 49	-9 3.6	10	2.7	1.5(.3)				-10071	1452	GC 5577		171	-13	000003000
600	4 32 36	28 25.8	18	2.7	.5(.3)	-.4(.4)			30090		IU TAU		181	-20	000003000
601	4 33 10	16 23.3	9	2.0	-3.2(.3)	-3.2(.3)			20087	1457	ALF TAU				

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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
602	4 33 29	41 9.6	20	2.3	1.1(.3)				40093	1454	58 PER		162	-4	C00001000
603	4 33 39	-30 42.6	7	2.2	1.4(.4)				-30037	1464	UPS2 ERI		231	-41	001100?00
604	4 33 47	-5 25.5	10	2.7	1.6(.3)				-10072				201	-32	000107100
605	4 34 28	-27 42.3	7	2.2	1.2(.4)				-30038		UU ERI		227	-40	001100100
606	4 34 58	66 3.3	24	2.7	-.1(.3)	-.5(.4)			70054		T CAM		143	13	0030+4100
608	4 35 29	8 14.4	9	2.0	.6(.3)	-1.4(.4)			10066		RX TAU		188	-25	000001300
610	4 35 56	-14 26.7	8	2.3	.8(.3)				-10073	1481	53 ERI		211	-36	001100100
612	4 37 27	17 25.5	17	3.0	.8(.4)							R	181	-19	000007100
614	4 38 11	-19 45.2	7	2.2	-.5(.3)	-.7(.4)			-20059	1496	54 ERI		218	-37	001300100
615	4 38 15	-14 19.0	8	2.3	.0(.3)	-1.0(.3)			-10075		BX ERI		212	-35	003300100
617	4 38 41	-38 18.3	10	2.7	.1(.3)	-1.9(.4)			-30034E		R CAE		241	-41	003000107
618	4 39 30	36 1.9	19	2.5		-2.5(.3)	-4.8(.4)						166	-7	000006000
619	4 39 37	6 47.2	11	2.3	1.2(.3)	-1.2(.4)			10068		BZ TAU		190	-25	000003100
621	4 40 42	17 13.9	9	2.4	.4(.4)								181	-18	000007100
622	4 40 56	20 40.7	12	1.9	1.1(.3)				20089		DO 10703		179	-16	000001100
624	4 41 43	32 51.6	19	2.6	.5(.3)				30093		DO 10715	R	169	-8	000001000
627	4 41 58	-12 46.5	9	2.7	1.0(.4)				-10077				210	-34	000100100
632	4 44 38	61 25.8	18	1.8	1.0(.3)	-1.3(.4)			60145		SVS 100406		148	11	00+011300
633	4 46 8	68 5.8	15	1.5	-.4(.3)	-1.3(.3)	-2.4(.5)		70055		ST CAM,EO		142	15	003721300
634	4 46 12	-3 57.5	10	2.6		-.5(.4)	-3.7(.4)						202	-29	000604?00
635	4 46 43	37 23.4	14	1.8	1.0(.3)				40099	1533	GC 5868	R	166	-5	000001100
636	4 47 34	63 25.5	18	2.1	.5(.3)				60147	1527	GC 5881		146	12	000017100
639	4 48 33	28 25.6	12	1.7	.2(.3)				30098		TT TAU		174	-10	000001100
643	4 49 21	38 25.4	20	2.7	.7(.4)				40101		DO 10808		166	-3	000007100
644	4 49 45	14 9.1	12	2.1	-.8(.3)	-1.3(.4)			10072	1556	OM11 ORI		185	-18	000003200
645	4 50 9	22 51.3	9	2.0	1.4(.3)								178	-13	000001?00
647	4 50 39	2 25.4	16	3.4	.6(.4)				64	1562	5 ORI		196	-25	000007100
648	4 52 55	59 3.8	14	1.6	.7(.3)	-1.1(.5)			60149		DO 28749		150	10	003031100
649	4 52 56	-2 58.7	13	4.1	1.2(.3)								202	-27	000100?00
650	4 53 18	-4 45.6	10	2.7	1.2(.4)								203	-28	000100100
652	4 53 26	13 28.2	16	2.9	.9(.3)				10075	1580	OM12 ORI		187	-18	000001+00
654	4 53 50	33 4.6	9	2.2	-1.0(.4)	-1.7(.4)			30100	1577	IOT AUR		171	-6	000007300
659	4 55 52	1 38.1	16	3.4	1.1(.4)				65	1601	P16 ORI		198	-24	000007100
661	4 56 6	-16 43.9	8	2.8	1.5(.3)				-20064				216	-32	001100?00
663	4 56 32	74 10.6	29	1.9	1.5(.4)		-3.1(.4)		70057	1572	DO 28769		138	19	01+?51?00
664	4 56 44	56 6.8	16	1.7	-1.9(.3)	-4.2(.3)	-5.2(.4)		60150		TX CAM,EO		153	9	000077?00
667	4 57 19	-14 53.9	5	1.6	-1.6(.3)	-3.0(.3)	-3.1(.4)		-10080	1607	R LEP		214	-31	007700300
669	4 57 56	-28 7.3	10	2.6	1.7(.4)								229	-36	001?00100
671	4 58 59	60 22.6	22	2.4	1.4(.3)				60151	1603	BET CAM	R	150	11	00?01?100
672	4 59 5	50 35.1	24	2.2	.7(.3)				50135		EL AUR		157	5	000001+00
674	4 59 11	41 0.0	20	2.3	-.3(.3)				40110	1612	ZET AUR		165	-0	000001+00
681	5 2 41	44 47.5	12	1.7	.5(.3)				40111		DO 28943		162	2	000001100
682	5 2 42	-21 58.8	6	1.6	-.6(.3)	-1.8(.3)			-20066		T LEP		223	-33	003300300
683	5 2 45	1 5.8	16	3.4	-1.2(.4)	-1.9(.4)			66	1648	W ORI		199	-23	000000300
686	5 3 12	34 46.7	13	1.7	1.3(.4)				30102		DO 11028		170	-4	000001100
687	5 3 13	50 19.3	24	2.2		-1.3(.4)							158	6	000002?00
688	5 3 26	-22 27.0	9	2.0	-.4(.3)	-1.2(.4)			-20067	1654	EPS LEP		223	-33	003+00100
692	5 5 17	42 30.9	15	1.8	1.4(.3)				40114		DO 28987		165	1	000001100
693	5 5 24	68 36.5	20	1.6	.9(.3)	-1.1(.4)			70059		UX CAM		143	17	00+311100
694	5 5 31	-12 40.7	10	2.7	1.4(.3)				-10082		GC 6277		213	-29	000100100

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	O '	S	'									O	O	
697	5 6 26	22 59.2	12	1.9	1.3(.3)				20100				180	-10	000001100
698	5 6 28	14 17.7	17	2.9	1.2(.4)				10078		DO 993		188	-15	000007100
699	5 7 2	-34 37.0	7	2.2	-.4(.3)	-1.5(.3)			-30042E		SVS 507		238	-35	003000300
700	5 7 23	52 48.5	8	1.9	.6(.3)	-2.1(.3)	-3.8(.4)		50137				156	8	000007300
4049	5 8 23	29 49.5	17	2.2	1.2(.4)				30105		DO 11103.EO		175	-6	000007100
702	5 8 57	-11 53.1	10	2.7	-1.8(.3)	-2.4(.3)	-4.0(.5)		-10084	1693	RX LEP		213	-28	000700700
706	5 10 30	2 48.2	16	3.2	1.2(.4)				69	1698	RHO ORI		198	-20	000000100
707	5 11 11	0 31.8	11	2.5	1.7(.3)		-3.4(.4)		69	1703	DO 1025		201	-21	000500700
708	5 11 58	-0 36.7	9	2.0	.5(.3)				70		DO 1031		202	-22	000100100
709	5 12 4	49 30.0	17	1.8	.9(.3)				50138		UX AUR		160	7	000001100
710	5 12 19	-8 17.1	10	2.6	-.0(.3)				-10085	1713	BET ORI		209	-25	000100100
713	5 13 2	45 56.3	13	1.6	-2.1(.3)	-2.3(.3)			50139	1708	ALF AUR		163	5	000003300
714	5 13 12	11 56.8	11	2.1	.6(.3)		-3.9(.5)		10081		V431 ORI		191	-15	000004100
715	5 13 16	53 32.5	15	1.7	-1.3(.3)	-2.5(.3)	-2.9(.5)		50141	1707	R AUR		156	9	000037300
720	5 14 34	42 44.3	12	1.6	-.1(.3)	-1.2(.4)			40119	1722	SVS 524		165	3	000003300
721	5 14 34	29 33.7	17	2.0	1.0(.4)								176	-5	000007100
722	5 15 1	33 18.0	13	1.6	1.4(.3)				30107	1726	16 AUR		173	-2	000001100
724	5 15 8	63 13.0	16	1.6	.4(.3)	-2.1(.3)	-3.0(.4)		60154				148	15	007037300
725	5 15 14	13 20.2	9	1.9	.6(.3)				10082		DO 1049		190	-14	000001100
728	5 15 49	62 36.6	19	2.1	1.3(.3)				60155	1720	DO 29132		149	14	001007100
729	5 16 10	-10 12.1	13	4.0	1.6(.3)								212	-25	000100700
4050	5 16 41	-65 2.0	23	3.9			-3.6(.4)				NGC 1892		275	-34	000000040
732	5 17 22	-25 9.8	7	2.1	1.0(.3)				-30043				227	-31	001100100
733	5 17 43	-17 56.6	6	2.0	1.1(.3)	-1.5(.5)			-20069				220	-28	002100300
735	5 18 26	32 29.2	17	1.9	1.3(.4)	-1.3(.4)			30110		UV AUR.EO		174	-2	000007300
4051	5 20 56	-4 39.1	14	4.1	1.6(.3)				71		V535 ORI.EO		207	-22	000100700
4052	5 21 26	-20 35.3	12	3.9	1.6(.3)								223	-28	007100700
739	5 21 42	36 8.2	11	1.6	1.6(.4)		-4.7(.5)		40126		GC 6640		172	0	000001500
740	5 22 6	-6 12.8	10	2.6	.6(.3)				-10091		EX ORI		208	-22	000100100
4053	5 22 32	38 20.1	19	2.1	.8(.4)								170	2	000007100
744	5 23 36	-0 40.8	15	4.2	1.5(.3)								203	-19	000100700
746	5 23 50	48 40.6	13	1.6	1.4(.3)		-4.1(.5)		50145		DO 29288		161	8	000001500
748	5 23 51	34 6.4	6	1.4	-.1(.3)	-1.6(.4)	-4.1(.5)		30114		S AUR		173	-1	000003700
749	5 23 58	29 52.5	12	1.7	1.1(.3)				30115		DO 11262		177	-3	000001100
751	5 24 10	23 3.4	12	1.9	.9(.3)				20106				183	-7	000001100
752	5 25 19	17 11.8	17	2.7	1.1(.4)		-3.6(.5)		20107	1816	117 TAU		168	-10	000007500
753	5 25 21	63 0.0	19	1.6	.8(.3)				60157	1602	17 CAM		149	15	00+011100
754	5 25 28	32 25.2	13	1.6	.7(.3)	-1.2(.4)			30117		DO 11278		175	-1	000003100
755	5 25 30	38 59.3	9	2.0	.9(.4)				40130		AD AUR		170	3	000007100
756	5 26 5	-20 49.1	7	1.8	.8(.3)	-.9(.4)			-20071	1829	BET LEP		224	-27	001300100
757	5 26 40	-4 46.8	10	2.6	-.7(.3)	-1.7(.3)			74		S ORI	R	208	-20	000300200
759	5 27 15	-1 9.5	9	2.0	.5(.3)				75	1834	31 ORI		204	-19	000100100
761	5 28 8	18 30.8	10	1.7	1.2(.3)	-1.7(.4)			20111		DV TAU		187	-8	000003300
767	5 29 6	18 31.3	12	2.0	-1.2(.3)	-1.5(.3)			20112	1845	119 TAU		187	-8	000003300
766	5 29 23	-35 29.9	8	3.6	1.1(.3)	-1.1(.4)			-30049E	1862	EPS COL		240	-31	003000000
768	5 29 36	65 1.9	25	2.6	1.4(.3)				70063		DO 29388		148	17	007117700
769	5 30 7	12 59.2	16	2.7	.7(.4)				10088		DO 1158		192	-11	000000100
771	5 30 30	-17 49.2	8	2.7	1.3(.3)	-1.1(.5)			-20073	1865	ALF LEP		221	-25	001200700
776	5 31 57	-5 14.8	10	2.6		-1.3(.3)					IS ORI	R	209	-19	000200200
777	5 32 6	54 24.5	19	1.7	1.3(.3)				50148	1866	DO 19463		157	12	0000+1100

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	'	'							°	°	
778	5 32 26	67 25.4	28	2.6	1.4(.3)							145	18	00?11??00
780	5 32 35	8 40.1	16	2.9	.3(.4)		-3.8(.5)		10090		DO 1187	196	-13	000000500
781	5 32 36	-4 56.4	11	2.6	1.5(.4)	-2.4(.3)					V556 ORI.EO.R	209	-19	0003C0200
782	5 32 45	38 .6	11	2.0	1.0(.3)				40134		IX AUR R	171	3	000001?00
779	5 32 50	-5 26.6	10	2.6	-1.1(.3)	<-5.1(.3)	<-7.3(.3)		-10093		M 42.EO.R	209	-19	000700700
786	5 35 3	-1 48.2	11	2.6	.4(.3)	-1.8(.4)			80		X ORI	206	-17	000300100
787	5 35 26	42 35.7	21	2.2	.6(.4)							168	6	00000?100
788	5 35 31	24 57.7	12	1.9	-.1(.3)	-1.7(.4)			20116		GP TAU	183	-3	000003100
4054	5 35 39	-47 57.5	22	3.6			-5.1(.6)					255	-32	000000004
789	5 35 54	18 25.8	16	2.5	1.0(.4)							188	-7	00000?100
791	5 36 9	46 44.1	13	1.6		-1.9(.3)	-3.5(.4)		50149		DO 29520	164	8	000006200
792	5 36 23	-35 30.6	8	3.6	1.2(.3)							240	-30	001000000
793	5 36 37	-14 4.6	10	2.6	.1(.3)	-.5(.4)			-10094		RW LEP	218	-22	000300300
794	5 36 44	37 36.0	13	1.6	.1(.3)	-2.0(.3)			40135		RU AUR	172	4	000003300
795	5 37 11	-12 28.6	9	2.3	1.7(.3)							216	-22	000100?00
796	5 37 19	-8 11.4	10	2.6	.7(.3)	-1.1(.4)			-10095			212	-20	000100300
797	5 37 29	31 53.9	10	1.7	.5(.3)				30124	1939	DO 11453	177	1	000001100
793	5 37 56	13 45.7	16	2.7	1.0(.4)	-1.2(.4)						192	-9	000000300
800	5 37 56	28 3.6	9	2.0	.2(.4)				30125		AB TAU R	180	-1	00000?100
801	5 38 19	12 16.1	16	2.8	.5(.4)	-1.0(.4)			10094		DO 1241.EO	194	-10	000000300
802	5 38 26	38 55.5	20	2.6	.4(.3)				40136		SZ AUR	171	5	000001+00
4055	5 38 27	-69 12.6	21	1.9		-1.9(.4)	-5.2(.4)	-6.5(.6)			Z DOR R	280	-32	000000070
803	5 38 38	17 28.0	16	2.6	1.1(.4)				20118		DO 11484	189	-7	000000100
804	5 39 3	-4 8.9	11	2.6	1.1(.3)				82		Y ORI	209	-17	000100100
805	5 39 4	32 .4	10	1.4	-.4(.3)	-1.9(.3)			30126		U AUR	177	1	000003100
806	5 39 6	-2 17.0	14	4.0		-1.9(.3)	-3.1(.4)				NGC 2023	207	-17	000600+00
807	5 39 12	-1 56.9	11	2.6	.4(.3)	-3.5(.3)	-6.3(.6)				NGC 2024.EO.R	207	-16	000700700
4056	5 39 57	-69 45.7	25	3.8		-1.8(.4)	-3.3(.5)	-7.1(.6)			NGC 2079 R	280	-32	000000070
809	5 40 36	32 41.1	13	1.7	.4(.3)	-2.4(.3)	-3.8(.4)					177	2	000007200
811	5 41 11	69 58.1	17	1.1	-.6(.3)	-2.9(.3)	-3.9(.4)		70066			143	20	007777300
812	5 42 13	24 22.7	9	1.9	.8(.4)				20120		TU TAU	184	-2	00000+100
4057	5 43 45	-66 26.9	21	3.8			-3.7(.5)	-7.4(.6)			NGC 2105	276	-31	000000050
815	5 44 7	43 11.9	12	1.6	.8(.3)				40140			168	8	000001100
818	5 44 29	0 18.1	10	2.0		-1.1(.3)	-4.0(.4)				NGC 2071	205	-14	000600400
820	5 45 5	-21 34.1	7	2.2	1.4(.3)				-20080			226	-23	001100?00
819	5 45 6	-12 52.2	6	1.6	1.2(.3)				-10097			218	-20	000100100
821	5 47 10	18 27.3	16	2.5			-4.9(.5)					190	-5	000000400
822	5 47 41	37 17.9	7	1.3	.5(.3)	-1.0(.5)			40143	2011	UPS AUR	173	5	000003100
823	5 48 20	32 5.1	13	1.7	1.0(.3)				30129	2018	DO 11629	178	3	000001100
826	5 49 5	63 1.9	14	1.6	1.2(.3)	-1.1(.3)			60159		TZ CAM	150	18	001331+00
828	5 49 7	-20 53.3	7	1.8	1.0(.3)				-20081	2035	DEL LEP	226	-22	001100100
829	5 49 11	-35 48.9	8	1.8	.3(.3)	-1.1(.4)			-30056E	2040	BET COL	241	-27	003000000
830	5 49 49	1 51.1	10	2.0	1.8(.3)	-			89	2037	56 ORI	204	-12	000100100
832	5 50 39	39 30.9	14	1.6	.8(.4)	-.2(.5)	-3.4(.5)		40145		DO 11680	172	7	000004300
834	5 52 10	0 57.6	7	1.7	1.6(.3)				91	2057	GC 7440	205	-12	000100100
836	5 52 25	7 24.7	10	2.3	<-3.6(.3)	-5.6(.3)	-5.9(.4)		10100	2061	ALF ORI	200	-9	000700600
837	5 52 57	20 9.2	17	2.5	-1.6(.4)				20127	2063	U ORI	189	-2	000000100
839	5 53 21	45 30.2	12	1.5	.1(.3)	-1.6(.4)	-3.5(.4)		50153		TW AUR	167	10	000037100
841	5 53 34	35 34.9	11	1.6	.1(.3)	-1.2(.4)			40146		DO 11724	175	5	000003300
842	5 53 43	48 21.6	13	1.6	1.3(.5)	-1.3(.5)			50154		LO AUR	164	12	000022300

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
843	5 53 45	22 50.4	17	2.4	.3(.4)				20129		BQ ORI		187	-1	000000100
845	5 54 38	15 45.3	16	2.6	*	-1.5(.4)							193	-4	000000200
846	5 55 6	2 42.1	11	2.5	1.5(.3)				92		DO 1342		204	-11	000100100
847	5 55 32	-33 6.8	9	3.7	1.4(.3)								239	-25	001000000
848	5 55 34	54 16.8	15	1.6	1.1(.3)				50155	2077	DEL AUR		159	15	000011100
850	5 55 58	38 24.9	14	1.6	.9(.3)	-1.7(.3)			40149				173	7	000003200
849	5 55 59	74 32.0	20	1.3	.1(.3)	-1.7(.4)	-2.6(.4)		70067		V CAM		139	23	012373200
851	5 56 13	45 56.6	11	1.5	-1.1(.3)	-1.7(.3)			50156	2091	PI AUR		167	11	000031300
853	5 57 39	39 38.8	9	1.6	1.2(.4)		-3.9(.6)		40151		AZ AUR		172	8	00000+500
856	5 58 54	10 54.6	12	2.4	.4(.3)				10103		DP ORI		197	-6	000100100
857	5 59 8	-7 36.1	14	3.9	1.1(.3)								214	-15	000100?00
858	5 59 11	-2 19.8	11	2.5	-.0(.5)	-1.1(.3)			96		V352 ORI		209	-12	000300100
860	5 59 27	37 43.9	18	1.7	.8(.4)								174	8	00000?100
862	5 59 56	50 37.6	14	1.5	1.4(.4)				50158		DO 29938		163	14	000011100
864	6 1 6	28 28.1	17	2.2	.9(.4)	-.2(.5)			30136		85 AUR		182	3	000000300
865	6 1 18	7 25.4	11	2.5		-2.4(.3)	-3.2(.4)						201	-7	000600200
866	6 1 27	67 44.4	24	2.2	1.5(.3)								146	21	001??1?00
870	6 2 41	-16 28.6	8	2.1	.5(.3)	-1.5(.3)			-20084	2148	17 LEP		223	-18	0023C0300
871	6 3 14	10 7.0	16	2.3	1.3(.4)								199	-5	000?00100
872	6 3 43	-24 11.5	9	2.7	-.8(.3)	-2.2(.3)	-3.1(.4)		-20085	2156	S LEP		230	-20	006300000
873	6 3 55	-5 43.3	11	2.5	1.5(.3)	-.8(.4)			-10109				213	-13	000300100
874	6 4 50	-21 48.0	7	2.2	.1(.2)		-3.2(.5)		-20086	2166	GC 7779		228	-19	001500000
876	6 5 18	34 53.7	18	1.9	.7(.4)				30139		DO 11943		177	7	00000?100
877	6 5 19	-6 23.3	10	2.4	.5(.3)	-2.7(.3)	-6.1(.4)				NGC 2170	R	214	-13	000700300
878	6 5 25	-19 8.0	10	2.5	.6(.3)				-20087	2168	19 LEP		226	-18	001+00100
881	6 6 38	47 44.5	16	1.6	1.1(.3)				50160		DO 30067		166	13	0000+1100
882	6 6 50	60 28.5	16	1.5	1.2(.3)		-3.4(.4)		60163		DO 30048		154	19	004+11?00
883	6 7 1	31 23.5	18	2.1	.5(.4)				30141		BU AUR		181	6	000000100
884	6 7 40	65 44.3	20	2.0	1.4(.3)	-.8(.4)			70069	2165	36 CAM		149	21	0012?1?00
888	6 8 5	3 46.5	11	2.4	1.1(.3)				99				205	-7	000100100
891	6 8 27	11 15.3	17	3.9	1.3(.3)				10109		DO 1438		198	-4	000100?00
4058	6 8 34	-40 16.6	10	3.8	.6(.3)				-40047E	2203	GC 7873,EO		247	-25	001000000
892	6 8 56	-7 13.9	9	2.3	1.7(.3)				-10111				215	-12	000100?00
893	6 9 7	21 50.5	9	2.0	.8(.4)	-1.3(.4)			20134	2190	TV GEM		189	2	000000300
894	6 9 10	32 42.2	18	2.0	1.2(.4)		-3.4(.5)		30144	2189	GC 7888		180	7	000000500
895	6 9 22	22 53.8	17	2.4	.5(.4)	-1.4(.4)			20136	2197	G GEM	R	188	2	000000300
896	6 10 4	17 59.3	16	2.6		-1.8(.4)	-3.5(.5)				SHARP, 257	R	193	-0	000000600
897	6 10 8	18 33.6	16	2.6	.9(.4)				20138		GI ORI		192	0	000000100
900	6 11 2	76 42.0	46	2.2	1.3(.3)				80013		DO 30069		137	24	0???1?1?00
901	6 11 12	60 1.7	22	2.2	1.5(.3)				60164	2201	40 CAM		154	19	00?1?1?00
902	6 11 31	13 52.2	10	1.9		-.6(.4)	-3.6(.5)				SHARP, 269		196	-2	000C00400
903	6 12 8	56 45.8	16	1.5	.5(.3)	-.2(.5)			60165		DO 30164		158	18	000031100
905	6 12 22	-6 15.8	8	2.2	.6(.3)				-10113	2227	GAM MON		214	-11	000100100
906	6 13 6	-10 57.8	14	3.8	1.2(.3)								219	-13	000100?00
907	6 13 14	61 31.0	16	1.7	-.6(.3)	-1.1(.3)			60166	2215	1 LYN		153	20	00333+100
908	6 14 0	-27 27.1	11	3.9	.5(.3)				-30055				235	-19	001000000
909	6 14 3	33 13.1	9	1.8	-.1(.4)	-1.1(.4)			30148		VW AUR		180	8	000000300
910	6 15 2	8 31.4	11	2.4	1.2(.4)	.			10113		GK ORI		202	-4	000100100
912	6 17 5	-12 36.6	14	3.8	1.5(.3)				-10117				221	-13	000100?00
913	6 17 19	-2 54.2	11	2.4	.5(.3)				100	2275	SVS 100729		212	-8	000100100

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
915	6 17 35	-10 36.0	6	1.6	.6(.3)	-2.7(.3)	-4.1(.4)						219	-12	000700700
916	6 18 4	11 59.5	17	3.8	1.3(.3)								199	-1	000100?00
4059	6 18 12	49 4.7	23	3.1	1.0(.3)								165	16	000017?00
918	6 18 13	11 35.0	11	2.7	1.0(.3)	-1.3(.4)					DO 1513	R	199	-1	0003C0?00
919	6 18 16	2 37.4	11	2.4	1.3(.3)				101		DO 1522		207	-6	000100100
920	6 19 13	7 22.5	11	2.4	1.3(.3)				10118		BN MON		203	-3	000100100
921	6 19 21	-3 51.0	11	2.4	1.9(.4)	-1.6(.4)			102				213	-8	000300200
922	6 19 44	22 32.2	9	2.0	-2.2(.4)	-2.2(.4)			20144	2286	MUU GEM		190	4	000000300
923	6 19 47	3 27.2	11	2.4	1.1(.3)				103		FU MON		207	-5	000100100
924	6 20 7	-33 21.9	11	3.9	1.2(.3)				-30064E	2296	DEL COL		241	-20	001000000
925	6 20 8	-2 10.9	11	2.4	.1(.3)				104		V MON		212	-7	000100100
927	6 20 45	49 18.5	13	1.5	.2(.3)	-1.2(.4)			50164	2289	PSI1 AUR		165	16	000011300
928	6 21 39	-0 4.7	15	3.9	1.5(.3)				106				210	-6	000100?00
4060	6 21 40	-0 16.8	15	3.9	1.4(.3)				105			EO	210	-6	000100?00
931	6 22 32	58 27.4	14	1.6	1.1(.3)				60167	2293	5 LYN		157	20	0011+1100
933	6 22 39	-9 6.5	11	2.4	.3(.3)	-1.2(.4)			-10122				218	-10	000300300
934	6 22 43	14 44.1	10	1.8	.1(.3)	-.7(.4)			10121	2308	BL ORI	R	197	1	000300100
935	6 23 2	-9 29.1	14	3.8	1.0(.3)	-1.3(.4)							219	-10	0003C0?00
936	6 23 15	5 35.1	16	3.8	1.1(.3)								205	-3	000100?00
937	6 23 15	19 6.0	12	2.1	1.5(.3)		-4.1(.5)		20145		AB GEM		193	3	000100400
938	6 23 32	68 57.4	31	1.9	1.8(.4)	-.8(.4)							146	23	00?732?00
940	6 23 59	9 2.9	17	3.8	1.4(.3)	-1.1(.3)							202	-1	000300?00
941	6 24 4	3 45.2	16	3.8	1.4(.3)						BY MON		207	-4	000100?00
943	6 24 20	5 25.3	11	2.3	1.6(.3)				10124		SW MON		205	-3	000100100
944	6 24 34	-19 35.3	10	2.8			-3.3(.4)						228	-14	004400000
945	6 25 12	61 35.2	13	1.4	.8(.3)				60168		V LYN		153	21	001111100
4061	6 26 2	44 47.0	21	3.2	•		-3.3(.4)						170	15	00004?700
947	6 26 9	16 36.4	12	2.2	.5(.3)				20147		AQ GEM	R	196	3	000100100
4062	6 27 4	-72 47.4	23	1.7		-1.9(.5)	-3.4(.5)						284	-28	000000060
949	6 27 36	8 8.0	16	3.7	1.4(.3)				10125		DO 1612		203	-1	000100?00
950	6 27 56	27 28.7	9	1.9	-.2(.4)	-1.5(.4)			30153		DW GEM		186	8	000000300
4063	6 29 5	45 56.5	22	3.1	•		-3.4(.4)						169	16	00004?700
954	6 29 22	43 19.4	14	1.8	1.2(.3)	-1.4(.4)							172	15	000037300
955	6 29 39	40 44.6	11	1.8	1.1(.4)	-1.5(.4)			40156		DO 12285		174	14	000020300
956	6 29 57	60 59.3	14	1.2	-.5(.3)	-2.8(.3)	-3.7(.4)		60169		DO 30551		154	22	007737300
957	6 30 16	55 24.1	16	1.8	1.4(.3)				60170	2376	7 LYN		160	20	0001?1?00
958	6 30 26	64 7.1	20	2.0	.9(.4)				60171		RT CAM		151	23	0011++100
959	6 31 41	16 4.9	12	2.2	.8(.3)				20152		CR GEM		197	4	000100100
961	6 31 54	4 16.6	16	3.7		-.4(.4)	-3.3(.4)						207	-2	000600?00
962	6 31 55	45 41.0	13	1.9	.6(.3)				50170		TU AUR		170	16	000011+00
964	6 32 1	4 59.1	11	2.3	1.1(.3)				10126		DO 1635		207	-1	000100100
965	6 32 19	-12 26.4	9	2.3	1.6(.3)								222	-9	00?100000
966	6 33 6	38 28.7	11	1.8	-1.3(.3)	-2.1(.3)			40159	2405	UU AUR		177	14	000030300
967	6 33 6	14 15.1	12	2.2	1.3(.3)	-.5(.4)			10128		DY GEM		199	3	000300100
968	6 33 19	-5 20.5	9	1.9	-.3(.3)	-1.5(.4)	-3.7(.5)		-10131		GL MON		216	-6	000300700
969	6 33 57	17 46.3	16	2.5		-1.4(.4)							195	5	000?00200
970	6 34 8	21 9.2	10	1.8	1.2(.3)	-.3(.4)			20153		AX GEM		192	6	000300100
971	6 34 19	3 26.4	16	2.8	.4(.4)	-2.2(.4)						R	208	-2	000+00300
975	6 34 44	16 26.7	12	2.2	1.5(.3)	.0(.4)			20154	2421	GAM GEM		197	4	000300100
976	6 34 47	14 42.7	17	3.7	1.5(.3)				10129		UU GEM		198	4	000100?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
977	6 34 56	-1 21.3	9	1.9	.2(.3)	-1.3(.3)			119		SY MON	R	213	-4	000300300
980	6 35 44	-18 12.3	10	2.8	1.2(.3)				-20098	2443	NU3 CMA		228	-11	001100000
981	6 35 49	5 16.4	11	2.3	1.4(.3)				10130		DO 1689		207	-0	000100100
982	6 36 9	59 54.5	14	1.4	.4(.3)	-1.3(.4)	-3.0(.5)		60172		U LYN		156	22	003363300
985	6 36 51	-14 4.6	10	2.8	1.0(.3)				-10135	2450	GC 8694		224	-9	001100000
986	6 36 56	-2 25.2	9	2.3	1.8(.3)				122		DO 1697		214	-4	000100?00
989	6 38 26	9 32.3	10	2.5	1.4(.3)	-1.1(.3)	-3.3(.4)				MO MON		203	2	000700?00
988	6 38 34	27 6.7	18	3.1	1.2(.3)								188	10	000100?00
990	6 38 48	2 48.5	16	3.7	1.5(.3)								209	-1	000100?00
991	6 38 52	55 32.1	12	1.4	.9(.3)	-1.0(.4)			60173		SU LYN		160	21	001113100
994	6 39 15	44 33.9	15	1.8	.9(.3)				40161	2459	PSI4 AUR		171	17	000010100
995	6 39 23	8 50.1	16	3.6	1.1(.3)								204	2	000100?00
996	6 39 38	1 24.1	15	3.6	1.5(.3)								211	-1	000100?00
997	6 40 9	-18 56.2	10	2.7	1.4(.3)				-20102		SVS 842		229	-10	001100000
999	6 40 18	-14 23.7	8	2.3	.5(.2)	-1.6(.4)			-10138		DY CMA		225	-8	001300000
998	6 40 40	57 58.5	31	3.4	1.5(.3)				60175		S LYN		158	22	00?1??700
1001	6 40 52	25 10.1	12	2.0	-.2(.3)	-1.0(.4)			30164	2473	EPS GEM		190	10	000100300
1002	6 41 5	-27 23.5	12	3.9	1.4(.3)								237	-14	001000000
1003	6 41 26	77 2.3	29	0.5	.8(.3)	-.4(.4)			80015		DO 30694		137	26	0+113?100
1004	6 41 36	29 .4	13	1.8	1.5(.3)				30165	2480	28 GEM		186	11	000100100
1007	6 42 48	-16 37.5	9	2.2	1.2(.4)	-1.4(.3)			-20105	2491	ALF CMA		227	-9	003300000
1008	6 43 27	-36 30.1	13	3.9	1.2(.3)				-30071E		CH PUP		246	-17	001000000
1009	6 44 4	30 18.9	13	1.8	1.1(.4)				30166		X GEM		185	12	000100100
1010	6 44 27	8 6.6	11	2.3	1.4(.3)				10138	2503	17 MON		205	3	000100100
1012	6 44 52	-20 14.8	15	3.7	.8(.3)				-20107				231	-10	00+100000
1014	6 45 6	-8 54.4	15	3.7	.3(.3)				-10139	2508	GC 8891		220	-5	000100000
1017	6 47 4	3 1.4	9	2.3	.8(.3)	-1.3(.3)			131				210	1	000300?00
4064	6 47 17	-66 50.5	20	2.6			-5.0(.4)	-7.0(.6)			SVS 894		277	-25	000000051
1018	6 47 22	11 22.6	16	3.5	1.3(.3)								203	5	000100?00
1020	6 49 1	5 49.5	11	2.3	1.3(.3)		-5.0(.5)						208	3	000100400
1021	6 49 17	61 4.5	14	1.4	.7(.3)	-.6(.4)			60176		DO 30947		155	24	001313100
1022	6 49 21	4 49.1	9	1.8	.2(.3)	-.8(.4)			134		SX MON		209	2	000300100
1023	6 49 23	-33 27.0	13	3.9			-4.1(.4)						243	-15	004000000
1024	6 49 27	20 54.0	18	3.4	1.6(.3)								194	10	000100?00
1026	6 49 49	4 10.6	15	3.5	1.2(.3)								209	2	000100?00
1027	6 50 3	1 2.6	15	3.6	1.7(.3)								212	1	000100?00
1028	6 50 7	8 27.9	11	2.2	-.7(.3)	-2.6(.3)	-4.0(.4)		10143		GX MON,EO		206	4	000?00300
1033	6 51 38	-14 18.4	15	4.1	1.3(.3)								226	-6	001?00000
1034	6 51 44	-11 55.8	10	2.8	.4(.2)				-10140	2574	THE CMA		224	-5	001100000
1035	6 52 8	-24 10.1	14	4.0	.2(.3)				-20112	2580	OMI1 CMA		235	-10	001000000
1036	6 52 27	77 2.6	37	2.0	1.1(.3)				80016	2527	GC 9073		138	27	0+11+1?00
1038	6 53 4	6 24.9	16	3.5	.3(.3)	-1.2(.4)			10144		CL MON		208	4	000300+00
1039	6 53 12	-2 16.1	15	3.0	1.2(.3)								215	-0	000100000
1041	6 53 53	-14 .4	15	4.1	1.5(.3)				-10141	2593	MUU CMA	R	226	-5	001+00000
1042	6 53 53	37 27.1	13	2.0	1.2(.3)				40167		DO 12662		179	17	000110?00
4065	6 54 39	-23 54.3	14	4.0	.4(.3)				-20114		X CMA,EO		235	-10	001000000
1043	6 55 10	3 21.8	9	2.3	1.1(.3)				140		AZ MON		211	3	000100000
1045	6 55 35	6 15.3	9	2.0	.7(.3)		-2.7(.4)		10146		RV MON		208	4	000500100
1044	6 55 36	-8 55.2	15	3.6	1.1(.3)				-10143		V523 MON		222	-3	000100000
1050	6 57 0	55 23.6	13	1.5	1.5(.4)				60179		R LYN		161	23	001117100

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	O '	S	'									O	O	
1051	6 57 23	16 9.2	12	2.1	1.2(.3)				20163	2615	41 GEM		199	9	000100100
1052	6 58 17	30 35.3	13	2.1	1.6(.3)		-3.8(.4)		30171		RS GEM		186	15	000140?00
1053	6 58 36	-3 11.3	9	2.3	1.0(.3)				141		DO 1886		217	1	000100000
4066	6 58 59	-76 55.2	38	3.8		-1.6(.4)	-2.9(.5)						288	-26	000000060
1055	6 59 20	17 50.6	12	2.1	.3(.3)				20166	2631	DO 12743		198	10	000100100
1056	6 59 36	16 44.3	9	1.8	1.3(.3)				20167	2635	DO 12745		199	10	000100100
1057	6 59 38	-27 52.4	10	2.2	-.7(.3)	-1.4(.4)	-2.4(.5)		-30072	2646	SIG CMA		239	-10	007000000
4067	6 59 50	70 48.4	49	3.4	1.6(.3)				70073	2617	DO 31137		145	27	0??1???00
1058	7 0 3	-4 33.6	15	3.6	1.4(.3)								218	0	000100000
1059	7 1 22	-11 28.7	9	2.2	1.2(.3)	-1.8(.3)	-3.0(.4)				Z CMA		225	-3	007700000
1060	7 2 8	-8 53.1	11	2.7	1.2(.3)	-1.4(.3)			-10147		HN MON		222	-1	003300000
1061	7 2 35	10 38.6	16	3.5	1.5(.3)				10150		LM GEM		205	8	000100?00
1062	7 2 40	-14 57.1	11	2.7	1.3(.3)	-1.3(.3)							228	-4	003300000
1064	7 3 21	-35 51.4	10	2.1	-1.0(.3)	-1.8(.4)	-3.2(.5)		-30073E		SVS 965		247	-13	007000000
1065	7 3 29	-25 2.5	14	3.9	.7(.3)				-30073				237	-8	001000000
4068	7 4 0	59 31.2	32	3.1	1.8(.3)							R	157	25	00?1???00
1067	7 4 5	8 58.3	16	3.4	1.2(.3)				10153		V CMI		207	7	000100000
1070	7 4 31	-7 29.5	9	2.2	.2(.3)	-1.2(.4)			-10149		RY MON	R	221	-0	000300000
1071	7 4 57	-32 23.2	18	4.3	<.8(.3)								244	-11	001000000
1072	7 4 57	66 1.5	16	1.2	1.4(.3)	-1.9(.4)			70074				150	26	00++23300
1073	7 5 16	24 10.1	12	1.9	.8(.3)				20172		DO 12802		193	14	0001+0100
1074	7 5 27	-10 39.3	11	2.7	1.4(.3)	-1.8(.3)	-3.2(.5)		-10151				224	-1	005700000
1075	7 5 43	-11 50.6	9	2.3	.3(.3)	-1.3(.4)			-10152		W CMA		225	-2	003100000
1077	7 6 13	4 12.3	15	3.5	1.6(.3)				146		DO 1964		211	6	000100000
1078	7 6 14	-26 16.0	10	2.2	.3(.3)				-30076	2693	DEL CMA		238	-8	001000000
4069	7 6 30	58 32.7	31	3.1	2.1(.3)								158	25	00?1???00
4070	7 6 33	-72 54.9	30	3.8		-2.3(.4)					R VOL		284	-25	000000020
1080	7 7 57	30 19.2	9	1.4	1.2(.3)				30178	2697	TAU GEM		187	17	000110100
1081	7 8 21	39 24.7	7	1.4	1.2(.3)	-2.0(.3)			40170	2696	63 AUR		178	20	000+30100
1082	7 8 59	-29 .7	14	3.9	.5(.3)				-30078		SVS 983		241	-9	001000000
1083	7 9 23	51 31.3	14	1.4	.6(.3)				50175	2703	SVS 982		166	24	000110100
1084	7 9 37	68 53.3	21	1.5	1.0(.3)				70075		AA CAM		147	27	0011+1100
1085	7 9 55	-20 13.3	15	4.0	.2(.3)	-2.1(.3)							233	-5	003000000
1086	7 10 28	16 14.9	9	1.8	-.4(.3)	-.9(.3)			20175	2717	BQ GEM		201	12	000300300
1087	7 10 34	-7 52.5	11	2.7	1.3(.3)				-10153		AM MON		222	1	001100000
1091	7 12 48	28 0.0	10	1.6	1.3(.3)				30179	2738	53 GEM		190	17	000110100
1092	7 13 4	5 8.6	16	3.4	1.6(.3)				10158		DO 2053		211	8	000100000
1094	7 14 25	48 36.2	13	1.4	.7(.3)	-.4(.4)			50177		RS LYN		169	24	000310100
1095	7 14 34	-23 15.3	14	3.9	.4(.3)				-20125	2764	SVS 100845		237	-5	001000000
1096	7 14 37	-27 49.4	10	2.3	.0(.3)				-30083	2766	GC 9678		241	-7	001000000
1098	7 15 2	38 9.2	14	2.0	-.2(.3)	-1.2(.3)			40172		DO 12919		180	21	000320+00
1099	7 15 14	-34 44.7	10	2.2	.3(.3)	-2.1(.4)			-30075E				247	-10	003000000
1101	7 16 21	-15 44.9	15	4.0	1.2(.3)								230	-1	001000000
1102	7 16 34	79 52.7	62	1.9		-.5(.4)	-3.4(.4)						134	28	0?+4??600
4071	7 16 52	31 24.1	18	3.1	1.4(.3)				30180		DO 12946		187	19	000?10?00
1103	7 16 56	22 3.1	12	2.2	1.6(.3)				20177	2777	DEL GEM		196	16	000110?00
1104	7 17 56	55 55.0	19	1.6	1.6(.3)				60182		SVS 100850		161	26	00?1?0100
1105	7 18 48	4 44.7	16	3.4	1.9(.3)								212	9	000100000
1106	7 18 53	87 7.3	118	1.2	.7(.3)					2609	SVS 927		126	28	110111100
1108	7 20 13	-20 25.7	15	4.0	.4(.3)				-20129				235	-3	001000000

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	O '	S	'									O	O	
1110	7 20 37	82 31.0	40	1.2	-.2(.3)	-1.3(.3)				2742	VZ CAV		131	26	011313100
1109	7 20 37	47 15.9	16	1.7	<1.4(.3)				50178		DO 31504		171	25	0001+0100
1111	7 20 56	-25 41.0	10	2.3	-3.0(.3)	-6.0(.3)	-7.7(.4)		-30087		VY CMA		239	-5	0070000000
1112	7 21 25	-27 44.6	15	3.9	1.2(.3)				-30090	2822	GC 9870		241	-6	0010000000
1113	7 22 26	-21 25.2	14	3.9	1.3(.3)								236	-3	0010000000
1114	7 22 44	27 54.1	10	1.6	1.3(.3)	-.8(.4)			30183	2821	IOT GEM		191	19	0001110300
1115	7 22 52	6 10.7	16	3.4	1.6(.3)								211	10	0001000000
1117	7 23 1	33 27.7	10	1.9	1.3(.3)		-2.7(.5)		30184		XX GEM		185	21	0001500000
1118	7 23 12	-5 45.3	9	2.2	1.1(.3)		-3.0(.4)		-10163		TT MON		222	5	0051000000
1120	7 24 39	46 5.8	11	1.3	-.8(.3)	-1.6(.4)			50180		Y LYN		172	25	0000310300
1122	7 24 53	41 3.9	12	1.4	1.1(.3)				40177		VX AUR		178	24	0001110100
1123	7 25 2	48 2.2	13	1.7	1.0(.3)				50181		SVS 100869		170	26	0001110300
1124	7 25 4	-26 18.8	15	3.9	1.3(.3)								240	-5	0010000000
4072	7 25 22	-66 44.0	24	3.9		-2.7(.4)							278	-22	0000000027
1127	7 25 29	9 1.5	9	2.3	.5(.3)				10164	2854	GAM CMI		209	12	0001000000
1129	7 26 37	-10 15.1	15	3.5	1.3(.3)								226	3	0071000000
1130	7 26 50	28 1.5	12	2.1	1.4(.3)				30186	2861	65 GEM	R	191	20	0001110300
1131	7 26 54	-19 20.8	15	4.0	.7(.3)	-1.2(.3)			-20131				234	-1	0030000000
1133	7 27 11	50 7.9	12	1.4	1.3(.3)		-3.9(.6)		50182		SVS 100875		168	27	0011110400
1134	7 27 58	51 53.1	18	2.2	1.2(.4)								166	27	0011010100
1135	7 28 8	-9 38.7	11	2.7	1.7(.4)	-1.6(.3)					U MON		226	4	0021000000
1136	7 28 17	20 37.4	9	2.2	.9(.3)	-.1(.4)			20181		DO 13079		198	18	0003-0000
1138	7 30 1	8 26.3	9	2.3	2.0(.4)	-1.6(.3)			10167		S CMI		210	13	0003000030
1140	7 30 34	-20 34.7	10	2.3	.5(.3)	-1.8(.3)			-20133		Z PUP		236	-1	0030000000
1139	7 30 34	11 8.9	16	3.3	1.5(.3)				10168		DO 2247		208	14	0001000000
1141	7 30 45	30 37.8	9	1.5	.8(.3)	-1.9(.4)			30187				189	22	0000330300
1143	7 31 12	66 35.8	23	1.6	1.5(.4)				70078		DO 31652		150	29	0071110100
1144	7 31 22	31 59.0	9	1.5	1.1(.4)				30188	2891	ALF GEM		167	22	0001110100
1145	7 31 25	-14 24.0	10	2.5	-.3(.3)		-3.0(.4)		-10169	2902	KO PUP		231	3	0050000000
1148	7 31 59	37 9.8	14	1.9	1.3(.4)								162	24	0001110100
4073	7 32 57	46 18.9	10	1.9	1.3(.3)				50184	2903	DO 31700		172	27	0001110100
1150	7 32 58	27 2.3	13	2.4	<.1(.3)	-1.2(.5)			30190	2905	UPS GEM		193	21	0002100000
1151	7 33 2	-23 53.5	15	3.9	.9(.3)	-1.8(.3)			-20134		DU PUP		239	-2	0030000000
4074	7 34 42	38 22.6	10	2.1	1.5(.3)				40181		DO 13184		181	25	0001110100
1159	7 36 42	-8 21.1	16	4.0			-3.9(.4)						226	7	0040000000
1160	7 36 46	38 27.9	10	1.4	1.2(.3)		-3.1(.5)		40183	2935	DO 13215	R	181	25	0001110300
1161	7 36 48	5 19.8	16	3.4	-.8(.3)				10170	2943	ALF CMI		214	13	0001000000
4075	7 37 19	-84 57.1	98	2.1			-3.4(.4)						297	-26	0000000040
4076	7 37 34	-8 45.6	16	4.0	-3.4(.3)							EQ	226	7	0010000000
1162	7 37 38	-21 35.9	15	3.8	1.3(.3)	-.4(.4)						R	238	0	0030000000
1163	7 38 9	20 34.0	12	2.2	.9(.3)				20187		Y GEM		199	20	0001100000
1164	7 38 30	-23 21.0	15	3.9			-4.8(.4)						239	-0	0040000000
1167	7 38 53	13 35.8	11	2.3	1.0(.3)				10172	2965	DO 2303		206	17	0001110300
1168	7 39 13	14 18.6	9	2.1	.8(.3)				10173	2967	SVS 1107		206	16	0001-10000
1169	7 39 15	-4 3.7	11	2.6	1.3(.3)				161				222	9	0011000000
1171	7 39 20	-37 20.7	16	3.8	1.3(.3)		-4.2(.4)						252	-7	0050000000
1173	7 40 1	-10 46.9	10	2.5	.9(.3)				-10175		SU MON		229	6	0010000000
1174	7 40 7	29 1.1	13	2.1	1.4(.3)				30191	2973	SIG GEM		191	23	0001100000
1175	7 40 46	38 58.6	12	1.5	1.4(.3)				40184		DO 13256		181	26	0001110100
1176	7 40 59	25 54.2	12	2.1	1.3(.3)				30193	2983	76 GEM		194	22	0001100000

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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
5	0 0 42	55 25.1	16	1.8	.1(.3)	-1.4(.3)			60001		Y CAS		116	-7	030300300
7	0 1 13	66 25.3	17	1.7	1.0(.3)				70002	9099	DO 44038	R	118	4	0?0101100
8	0 1 54	39 49.7	14	1.9	1.5(.3)				40001		SV AND		113	-22	010100000
9	0 1 59	41 50.6	12	1.5	1.2(.3)				40002	9105	DO 44062		114	-20	010100000
12	0 3 40	69 46.4	21	1.6	1.1(.3)				70003		SVS 3		119	8	010+1?100
13	0 3 54	26 46.8	12	2.2	1.4(.3)				30002		TT PEG		111	-35	010100000
14	0 4 15	42 49.2	15	1.8	.3(.3)	-2.5(.3)	-3.2(.4)		40004		CIT 1		114	-19	030700000
17	0 5 11	-25 45.6	8	2.7	1.3(.4)	-.9(.4)			-30002		SY SCL		40	-80	000003170
18	0 5 53	-17 51.9	8	2.6	1.4(.3)				-20001	18	GC 129		75	-76	000001100
20	0 6 14	33 35.2	13	2.1	1.5(.3)								113	-28	010100000
21	0 6 28	58 52.7	15	1.8	.9(.3)				60004	21	BET CAS		118	-3	010100100
22	0 6 59	63 40.4	25	1.9	.9(.3)	-.4(.4)			60005		DO 22804		118	1	010300?00
24	0 7 38	54 36.6	16	1.8	1.5(.3)		-4.3(.5)		50001		TT CAS		117	-8	010100400
27	0 7 49	28 21.9	13	2.2	1.4(.3)				30005		DO 8213		112	-33	010100000
28	0 8 7	31 58.1	11	1.8	.4(.2)				30006		DO 8220		113	-30	010100000
29	0 8 23	-18 51.4	6	1.4	1.2(.3)				-20003		AC CET		73	-77	000001100
32	0 9 28	-24 53.4	8	3.6	1.2(.3)				-20004				47	-81	000001?00
37	0 11 56	-8 3.8	7	2.1	.2(.3)				-10005	46	AD CET		97	-69	000101100
38	0 12 1	-19 12.2	14	3.9	-.2(.4)	-.5(.4)			-20006	48	AE CET		75	-78	000007370
4001	0 12 5	19 56.2	17	3.0	.2(.3)				20004	45	CHI PEG,EO		111	-42	000100000
40	0 12 54	-32 19.2	7	1.8	-.4(.3)	-1.4(.4)			-30006		S SCL		359	-81	000003320
41	0 14 3	49 11.5	13	1.4	1.5(.3)				50004		DO 23136		117	-13	010100000
42	0 14 7	1 36.2	9	2.2	1.1(.3)		-3.7(.4)		6		DO 59		105	-60	000500000
43	0 14 18	9 59.0	16	3.3	1.3(.3)				10001		DO 60		109	-52	000100000
45	0 14 26	74 20.2	38	2.5	1.4(.3)				70007		DO 23047		121	12	0?01??100
47	0 15 44	16 4.9	16	3.1	1.6(.3)								112	-46	000100000
48	0 16 50	-9 5.7	7	2.0	.8(.3)		-3.4(.4)		-10006	74	IOT CET		99	-70	000105100
50	0 17 14	44 25.4	12	1.4	.1(.2)	-1.1(.3)			40006		VX AND		117	-18	030300000
53	0 19 15	-20 19.7	8	2.7	-1.3(.3)	-1.7(.3)			-20007	85	T CET		78	-80	000003370
55	0 19 35	58 55.6	22	1.9	1.6(.3)						FR CAS		119	-3	010100?00
4002	0 20 7	-66 29.2	40	2.7		-1.7(.4)							308	-51	000000020
57	0 20 21	55 31.2	14	1.8	-1.7(.3)	-2.6(.3)			60009		T CAS		119	-7	030300300
56	0 20 30	38 27.9	14	2.0	1.3(.3)				40008		DO 8341		117	-24	010100000
59	0 21 7	38 18.2	14	2.0	-.9(.3)	-2.9(.3)	-3.5(.4)		40009	90	R AND		117	-24	030700000
60	0 22 11	69 52.1	15	1.3	1.2(.4)	-.8(.4)			70008		SVS 49		121	7	010133100
62	0 22 26	47 23.0	22	2.2	1.8(.3)								118	-15	0?0100000
64	0 23 46	-42 37.8	9	2.7	-.3(.3)				-40004E	99	ALF PHE		320	-74	000001100
66	0 24 26	-6 54.9	11	2.7	-.3(.3)	-1.4(.4)			-10009		UY CET		106	-69	000300300
67	0 24 29	69 21.4	15	1.4	.6(.4)	-2.1(.3)							121	7	030332300
68	0 24 49	35 19.1	13	2.0	1.0(.3)	-1.3(.3)			40010		AQ AND		117	-27	030300000
70	0 25 15	-33 17.0	8	1.8	-.3(.3)	-1.3(.5)			-30006E	105	ETA SCL		343	-82	000001120
71	0 25 27	17 37.3	17	3.3	-.4(.3)	-1.2(.4)	-2.5(.4)		20007	103	47 PSC		115	-45	000700000
72	0 25 29	-4 14.3	16	4.1	.8(.4)								108	-66	000?00100
4003	0 25 35	31 19.8	19	2.7	1.6(.3)							EO	117	-31	0?0100000
73	0 26 7	48 8.9	16	1.9	1.0(.3)				50007		DO 23365		119	-14	010100000
78	0 27 21	82 20.3	62	1.3	1.2(.3)						AD CEP		122	20	010+1??00
75	0 27 24	-4 15.4	12	3.4	1.2(.4)				10	117	12 CET		110	-66	000+00100
82	0 29 39	25 45.6	18	3.0	.9(.3)				30012		TU AND		118	-37	000100000
4004	0 31 3	-7 56.0	2	1.7			-3.2(.4)						110	-70	000?04?00
85	0 32 57	-11 46.0	9	2.8		-1.5(.3)							109	-74	000+02200

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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
88	0 33 57	48 40.4	16	1.9	1.0(.3)				50010		SVS 5864		120	-14	017100000
89	0 34 3	44 12.2	15	1.9	1.2(.3)				40011	152	GC 726		120	-18	017100000
90	0 34 27	53 26.1	18	1.6	1.7(.3)				50011		DO 23568		121	-9	011?00000
4005	0 35 11	45 19.7	21	2.2	1.3(.3)				50012		BZ AND,EO		120	-17	0??100000
92	0 36 11	59 24.7	15	1.5	1.4(.3)	-.6(.5)			60015		FZ CAS		121	-3	011100200
94	0 36 26	30 35.2	19	2.9	.2(.3)				30014	165	DEL AND		120	-32	000100000
96	0 36 55	37 56.5	14	2.0	1.6(.3)				40012		DO 8439		120	-25	010100000
4006	0 37 20	-57 7.1	29	3.0		-3.0(.4)							306	-60	000000020
99	0 37 31	53 12.7	17	1.7	1.7(.4)	-1.1(.4)			60016		NX CAS		122	-3	031?00100
100	0 37 42	56 16.2	12	1.4	-.5(.3)	-.5(.4)			60017	168	ALF CAS		121	-6	031300100
104	0 39 59	41 .5	14	1.4	1.8(.3)				40013		NGC 224	R	121	-22	071100000
106	0 41 5	-18 17.3	8	2.3	-.6(.3)				-20010	188	BET CET		111	-81	000?01100
4007	0 41 37	-10 55.0	15	3.6	1.3(.3)				-10012	194	PHI1 CET		117	-73	000101?00
107	0 42 29	68 55.6	16	1.6	.9(.4)	-1.5(.4)			70012				122	6	02+223300
108	0 43 55	15 12.4	10	2.4	-.1(.3)				20012	211	57 PSC		121	-47	000100000
109	0 44 53	32 25.4	13	1.7	1.2(.3)	-.5(.4)			30015		RW AND		122	-30	001300000
111	0 46 11	7 19.1	16	3.4	.6(.3)				10007	224	DEL PSC		122	-55	000100000
113	0 46 30	56 46.0	15	1.7	1.5(.4)				60021		DO 23796		123	-6	011?00100
115	0 47 25	-16 45.0	10	2.7	1.9(.4)		-3.3(.4)						121	-79	000502100
116	0 48 22	62 38.9	16	1.3	.9(.3)				60023		VY CAS		123	0	011100100
117	0 48 25	61 32.9	19	1.6	1.1(.3)		-3.2(.5)		60022	237	DO 23820		123	-1	014100?00
120	0 49 21	59 25.9	17	1.9	1.3(.4)				60024		V451 CAS		123	-3	071100100
4008	0 49 42	49 26.0	22	1.5	1.5(.3)				50017		SVS 5876		123	-13	071?00000
121	0 49 53	69 41.3	18	1.8	1.5(.3)				70013		DO 23858		123	7	07111?700
122	0 49 55	47 8.3	16	1.5	1.2(.3)	-1.1(.4)			50016		RV CAS		123	-15	071300000
123	0 50 25	-1 25.5	9	2.3	.7(.3)				13	248	20 CET	R	124	-64	000100000
124	0 50 28	17 15.7	17	3.3	1.2(.3)								123	-45	000100000
126	0 50 56	6 33.9	16	3.6	1.4(.3)								124	-56	000100000
127	0 52 0	48 25.3	17	2.1	1.2(.3)				50020	256	DO 23892		124	-14	017100000
128	0 52 6	58 42.0	17	2.0	1.6(.4)				60027	253	UPS1 CAS		123	-4	01+100100
129	0 52 31	24 16.8	12	2.0	.9(.3)				20014	259	DO 8568		124	-38	001100000
132	0 53 28	57 43.5	16	1.5	1.5(.3)		-2.5(.5)		60029	260	DO 23903		124	-5	071500?00
133	0 53 41	60 27.7	18	1.9	1.4(.4)				60031	264	G&M CAS		124	-2	071100100
134	0 53 53	48 26.2	13	1.5	.9(.3)				50021		KS CAS		124	-14	011100000
135	0 53 57	58 53.6	22	2.2	1.7(.3)				60030	265	UPS2 CAS		124	-4	017100?00
136	0 54 24	23 9.3	12	2.0	1.8(.3)				20015	271	ETA AND		125	-39	001100000
137	0 54 32	58 9.2	13	1.5	.8(.4)	-.4(.4)			60032		DO 23918		124	-4	011300100
141	0 57 41	56 21.2	20	1.8	.9(.3)				60033		V365 CAS		124	-6	0+1100000
143	0 57 59	-1 57.0	15	3.6	1.1(.3)				14		DO 137		128	-64	000100000
144	0 58 39	29 39.9	17	2.0	1.5(.3)								125	-33	001?00000
147	1 0 6	52 52.5	19	2.2	1.2(.3)				50023		DO 23993		125	-10	017100000
149	1 1 9	74 33.3	22	1.5	.4(.3)	-1.2(.3)			70016		DO 23987		124	12	01331+300
152	1 2 19	18 53.7	18	3.5	1.6(.3)				20017		DO 8641		127	-44	007100000
153	1 2 38	85 57.4	105	1.9	1.3(.3)						BRIGHT NEB		123	23	010117?00
154	1 2 47	65 33.3	25	2.7	1.3(.4)				70017		DO 24036		124	3	07+107100
156	1 3 4	-32 .4	8	2.2	1.1(.3)				-30013		SVS 119		270	-84	000001100
157	1 3 40	12 19.1	9	1.7	-.4(.3)	-3.4(.3)	-4.9(.3)		10011		WX PSC		129	-50	006700000
158	1 3 50	-20 49.0	7	2.2	1.3(.3)		-3.2(.5)						151	-83	000401100
160	1 5 20	63 18.2	25	2.1	1.6(.3)				80039		HS CAS		125	1	071100700
161	1 6 5	-10 28.0	7	2.2	.4(.3)	-1.0(.4)	-4.0(.5)		-10018	334	ETA CET		137	-73	000101700

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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
162	1 6 25	-5 50.8	15	3.7	1.3(.3)								135	-68	000107000
163	1 6 48	65 52.6	20	2.3	1.2(.3)				70018				125	3	0?+101100
164	1 6 52	35 21.5	9	1.6	-2.0(.3)	-2.3(.3)			40019	337	BET AND		127	-27	003000000
165	1 7 30	15 26.0	12	2.2	1.7(.4)		-2.8(.4)		20018	344	DO 8669		130	-47	004500007
167	1 8 2	53 28.6	15	1.5	.8(.3)	-1.3(.4)			50030		HV CAS		126	-9	013300000
168	1 8 20	30 22.4	17	2.0	1.3(.3)	-1.3(.3)			30021				128	-32	003000000
169	1 8 44	-13 47.2	7	2.0	1.2(.3)	-.9(.5)			-10019		AM CET		143	-76	000103100
172	1 9 39	-3 40.9	15	3.7	1.9(.3)								136	-66	000100000
175	1 9 53	87 31.5	27	2.5	1.5(.3)				70019		DO 24136		125	5	01???1?00
177	1 10 23	62 42.0	17	1.7	-.0(.3)	-1.3(.3)			60041		DO 24139		125	0	033300+00
179	1 10 52	26 53.0	17	2.1	1.3(.3)				30023		RT PSC		129	-35	001000000
182	1 11 42	-2 26.5	15	3.7	.7(.3)				17		AN CET		136	-64	000100000
184	1 11 49	66 23.6	16	1.6	1.2(.3)	-.5(.4)			70020		DO 24265		125	4	013101100
186	1 12 27	71 27.6	19	1.7	1.0(.3)	-1.9(.4)	<-5.0(.5)		70021		DO 24161		125	9	01+112500
188	1 13 18	25 30.7	17	2.1	.3(.3)				30025		Z PSC		130	-37	001000000
190	1 14 25	66 57.2	15	1.5		-1.9(.3)	-3.5(.9)						125	4	066006200
189	1 14 32	59 2.2	14	1.6	1.3(.3)		-3.0(.7)		60042		BO CAS		126	-3	011100400
192	1 14 50	13 38.8	16	2.4	1.1(.3)				10013		DO 187		132	-48	001+00000
193	1 15 0	57 32.7	20	1.9	.1(.2)				60043		V465 CAS		126	-5	011+00000
194	1 15 50	72 21.1	20	1.4	-.1(.3)	-2.6(.4)	-3.4(.4)		70024		S CAS		125	10	076733+00
195	1 16 5	35 29.9	18	1.9	1.7(.3)								129	-27	001000000
197	1 16 17	56 4.0	14	1.4	1.2(.3)	-2.2(.4)			60044		AA CAS		127	-6	031100000
200	1 17 13	63 43.7	26	2.4	1.3(.3)				60047		DO 24231		126	1	01+10??00
203	1 18 47	66 32.6	25	2.8	1.5(.3)				70026				126	4	0??10?100
205	1 19 40	61 35.6	16	1.7	2.2(.8)	-1.3(.4)	-3.5(.5)				SHARP. 187	R	127	-1	026600700
206	1 19 42	1 52.0	11	2.3			-3.9(.4)						138	-60	004400000
210	1 21 35	-8 26.8	10	2.8	.9(.3)				-10021	402	THE CET		147	-70	000101000
211	1 21 37	60 48.9	15	1.7	1.2(.3)	-.7(.5)			60048		BT CAS		127	-2	011300200
214	1 24 26	16 40.5	15	2.9	1.7(.3)								135	-45	00?100000
215	1 24 39	-32 49.7	8	2.7	-.9(.3)	-1.9(.3)			-30015	423	R SCL		250	-81	000003300
216	1 25 5	16 25.9	12	2.2	1.5(.3)				20025		ST PSC		135	-45	001100000
218	1 26 7	-43 36.3	11	3.8	-.7(.4)	-1.5(.4)			-40010E	429	GAM PHE		281	-72	000000370
220	1 26 10	51 24.6	14	1.9			-3.1(.4)		50036		DO 24371		129	-11	044000000
224	1 27 38	5 53.3	9	1.9	1.1(.3)				10017	434	MUU PSC		140	-55	001100000
225	1 27 44	15 25.0	17	3.7	1.8(.3)								137	-46	007100000
226	1 28 11	2 37.9	11	2.4	1.2(.3)	-.7(.4)			19		R PSC		142	-59	003100000
227	1 28 30	62 4.4	17	1.8	1.3(.3)				60053		IM CAS		128	-0	011100?00
228	1 28 53	15 4.0	11	2.4	1.1(.3)		-3.1(.4)	-6.2(.7)	20026	437	ETA PSC		137	-46	007500001
230	1 30 40	62 10.9	20	1.9	1.6(.3)	-1.6(.3)	-3.5(.3)				DO 24582,ED		128	-0	036700+00
231	1 31 16	65 32.2	19	1.9	1.1(.3)				70029		SVS 5931		127	3	0+1101?00
236	1 34 6	7 35.1	11	2.4	1.4(.3)				10019		SVS 100126		142	-53	001100000
237	1 34 42	48 22.0	23	2.1	.5(.3)				50041	464	51 AND		131	-14	0+1000000
240	1 35 29	65 15.7	26	2.9	1.4(.3)	-.6(.4)			70030		DO 24571		128	3	0?+301?00
243	1 38 50	5 15.6	16	4.0	.9(.3)				10020	489	NUU PSC		145	-55	00+100000
245	1 39 57	28 18.0	17	2.0	1.6(.3)							R	136	-33	001000000
247	1 43 59	10 8.1	12	2.4	2.0(.3)				10022		DO 294		144	-50	001100000
4009	1 43 59	-24 47.5	13	3.9	1.9(.4)	-1.1(.4)							204	-77	000307?00
250	1 46 4	29 34.7	17	1.9	*	-1.6(.4)							138	-31	002000000
251	1 47 18	64 37.1	26	2.1	1.2(.3)	-1.1(.4)			60066		DO 24852		129	3	031+07?00
252	1 47 24	-5 6.4	11	2.5	1.3(.3)				-10025		AQ CET		158	-64	001107000

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
253	1 47 30	53 28.0	18	2.1	.3(.3)	-1.3(.3)			50046		TT PER		132	-8	032000000
254	1 47 48	-13 6.9	8	2.7	1.3(.3)				-10026		GC 2224	R	170	-70	00010+100
4010	1 48 3	-23 5.1	13	3.9	1.6(.3)								198	-76	000107?00
4011	1 48 13	-17 52.3	9	2.3	1.4(.3)				-20019				181	-73	000107?00
255	1 48 58	-10 36.1	8	2.1	.9(.3)				-10027	539	ZET CET		166	-68	001101000
256	1 49 3	-6 41.9	11	2.5			-3.5(.4)						160	-65	004?04000
257	1 49 3	38 53.9	19	1.8	1.4(.3)				40030		DO 8951		136	-22	001000000
4012	1 49 41	-2 31.4	15	2.9	1.6(.3)								156	-61	001?07000
259	1 50 33	59 55.3	22	2.2	1.2(.3)				60067		SVS 100140		131	-2	011000?00
261	1 51 39	-46 32.1	10	3.7	-.6(.4)					555	PSI PHE		274	-67	000000100
262	1 51 47	8 30.7	11	2.4	1.3(.3)	-1.0(.4)			10023		SVS 100145		148	-51	001300007
265	1 52 20	69 58.2	18	1.7	1.1(.3)				70032		V391 CAS		128	8	0111?7100
4013	1 52 46	16 56.3	16	2.4	1.2(.3)				20032		DO 8984,EO		144	-43	001000000
273	1 53 30	89 0.0	270	1.4	.5(.3)					424	ALF UMI		123	26	110111100
272	1 54 20	-22 46.7	7	2.2	1.5(.4)				-20021	565	56 CET		199	-75	000101100
274	1 54 49	27 33.8	8	1.8	1.2(.3)				30032	564	DO 8991		140	-33	001000000
276	1 55 13	30 53.7	8	1.7	-.1(.3)	-1.1(.4)			30033		DO 8992		139	-30	003000000
277	1 55 16	-48 45.3	10	3.7	.4(.4)								276	-65	000000100
278	1 55 31	45 11.7	22	2.2	-1.5(.3)	-2.6(.3)	-3.8(.4)		50049		DO 25105		135	-16	007000000
279	1 55 56	-7 19.1	8	2.3	1.6(.3)				-10028		GC 2380		164	-64	001107000
280	1 56 7	54 34.8	19	2.2	3(.2)	-1.4(.5)			50050		U PER		133	-7	033000000
283	1 57 4	-14 7.9	8	2.1	1.5(.4)	-1.2(.5)			-10029		GC 2403		177	-69	002107300
284	1 57 23	-21 3.1	6	1.9	.8(.3)	-.6(.4)			-20023	583	57 CET		195	-73	000103100
285	1 57 28	63 53.4	18	1.8	1.5(.3)	-.8(.5)			60071		DO 25157		130	2	023203?00
286	1 57 37	-21 19.1	6	2.1	-.2(.3)	-.9(.4)			-20024	585	UPS CET		195	-73	000307100
287	1 57 57	-8 47.4	7	1.7	-.6(.3)	-1.2(.4)			-10030	587	AR CET		167	-65	003301000
289	1 58 26	61 41.1	17	2.1	1.6(.4)				60072		SVS 102367		131	0	017001100
4014	1 58 44	0 14.6	16	3.0	1.4(.3)								157	-58	001?07000
290	1 59 48	13 14.9	16	2.6	.8(.3)				10024	601	DO 355		148	-46	001000000
292	2 0 16	7 27.9	16	2.8	-.2(.3)	-1.6(.3)			10025		IC 1772,EO		152	-51	003000007
294	2 0 45	42 5.8	21	2.3	*	-1.1(.4)			40034	603	GAM1 AND		137	-19	002000000
295	2 1 6	-4 21.0	11	2.5	1.2(.3)				29	611	GC 2485		163	-61	00110+000
4015	2 3 27	-28 1.2	11	3.6	<.6(.4)								219	-74	000?07100
297	2 3 40	-10 27.3	8	2.2	.7(.3)	-1.1(.4)			-10032		UZ CET		173	-66	003101000
4016	2 4 14	-67 45.0	41	3.5		-2.1(.4)							292	-48	000000020
299	2 5 22	51 33.4	25	2.6	.4(.3)				50054		SVS 5963		135	-9	001000000
301	2 6 21	-18 1.9	11	2.6	1.2(.3)				-20027	625	GC 2569		189	-70	001+01?00
303	2 7 55	19 16.9	16	2.5	.6(.3)				20041	631	15 ARI		147	-40	001000000
4017	2 8 28	47 33.4	23	2.7	1.6(.3)							EO	137	-13	001000000
4018	2 8 41	-4 23.0	15	4.0		-1.1(.4)							166	-60	007?02000
305	2 8 41	63 56.1	14	1.6	1.1(.3)				60075		SHARP, 189		132	3	011101100
4019	2 13 29	0 17.4	16	3.0	1.4(.3)							R	163	-56	001?07000
310	2 14 18	44 4.3	22	2.6	-.8(.3)	-1.4(.3)			40037		W AND		139	-16	003000000
311	2 14 25	78 31.8	28	1.8	1.0(.4)	-.6(.4)			80005		AG CEP		127	17	01+103100
313	2 15 28	57 12.0	16	2.2	1.4(.3)				60078		BU PER		135	-3	0+1000000
314	2 15 46	-14 22.7	7	2.2	1.2(.3)				-10033		AS CET		185	-66	007101100
317	2 16 36	24 12.3	17	2.2	1.4(.3)								147	-34	001000000
318	2 16 51	-3 11.7	5	1.1	<-3.9(.2)	-5.1(.3)	-6.0(.4)	-6.6(.6)	30	681	OMI CET		168	-58	007707007
319	2 18 2	60 41.6	23	2.5	1.3(.3)				60084		DE CAS		134	-0	0+1001?00
320	2 18 43	56 52.0	17	2.0	.7(.4)	-1.0(.3)			60087		RS PER	R	135	-4	013003000

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	'								°	°	
321	2 19 17	0 10.9	9	2.2	.7(.3)				31	689	69 CET	165	-55	001101000
323	2 19 21	58 22.4	13	1.6	.2(.3)	-2.8(.3)	-3.7(.4)		60088		S PER	135	-2	017007000
4020	2 19 23	-53 53.3	25	3.6		-3.0(.4)	-4.6(.4)					277	-59	000000060
326	2 21 53	61 51.7	15	1.8	1.0(.3)	-3.6(.3)	-6.9(.4)				NGC 896.EO,R	134	1	077007700
327	2 22 0	57 11.6	16	2.1	1.2(.4)		-3.0(.4)		60090		DO 25684	135	-3	015007000
4021	2 22 6	38 34.8	20	2.4			-3.0(.4)				EO	142	-21	004000000
4022	2 22 20	50 3.5	25	2.9	.8(.3)				50060	699	65 AND.EO	138	-10	001000000
328	2 23 10	62 3.1	15	1.8		-1.6(.4)	-4.6(.4)				W 3 R	134	1	066006600
331	2 23 22	61 38.8	24	2.5		-2.0(.4)	-3.5(.4)					134	1	0+4006+00
332	2 23 34	60 28.5	14	2.2	1.1(.3)	-1.4(.3)			60091			134	-0	0+300?300
333	2 24 13	61 18.1	17	2.0		-1.1(.4)					W 4,EO	134	1	0+200?200
335	2 24 44	51 5.4	26	3.0	.4(.3)	-.6(.4)			50062		RR PER	138	-9	003000000
337	2 26 57	-26 20.0	6	1.9	-.8(.3)	-2.6(.3)			-30021		R FOR	216	-68	000302300
339	2 28 14	-22 44.6	6	2.0	1.4(.4)		-2.9(.5)		-20033	735	GC 3015	207	-67	00510+100
340	2 29 10	76 29.8	28	1.8	1.1(.4)				80006		GC 3033	129	15	011??2100
341	2 29 15	57 50.2	20	2.5		-1.2(.3)						136	-2	0+20020002
342	2 29 22	14 14.6	16	2.7	1.3(.3)							156	-42	001000000
347	2 30 29	45 25.2	12	2.3	-.3(.3)	-2.1(.3)	-2.8(.4)		50068		UX AND	141	-14	007000000
348	2 31 19	-13 20.9	7	2.3	1.7(.3)				-10035		U CET	188	-62	001?07100
349	2 31 41	64 56.2	15	1.5	.2(.3)	-2.8(.4)	-4.4(.4)		60092		CIT 4	134	4	027002000
4023	2 32 11	21 38.9	17	2.5	1.5(.3)						EO	153	-35	001000000
350	2 32 35	53 16.0	15	2.4	1.2(.3)				50069		EE PER	138	-6	001000000
351	2 32 36	34 28.1	18	2.4	.3(.3)	-.7(.4)			30043	750	15 TRI	146	-23	003000000
4024	2 32 53	-70 53.4	47	3.6		-2.1(.4)						291	-44	000000020
352	2 33 4	-42 24.7	10	3.8	.7(.4)				-40016E		GC 3112	255	-64	000000100
354	2 33 37	-8 2.3	8	2.2	1.2(.3)				-10037	759	80 CET	180	-59	001101000
355	2 34 4	34 2.4	18	2.4	-.1(.3)	-.6(.4)			30044	758	R TRI R	147	-24	003000000
357	2 35 14	-27 10.5	7	1.9	-.3(.3)	-2.7(.4)	-3.4(.4)		-30073			219	-66	003707300
359	2 36 3	59 21.4	16	2.2	1.3(.3)				60094		GP CAS R	136	-0	0??0011001
360	2 36 6	80 55.6	51	2.2	1.6(.4)		-2.0(.5)				RR CEP	127	19	01??51?00
361	2 36 16	60 12.3	19	2.7		-2.0(.3)	-3.1(.5)					136	0	06+00?200
363	2 36 40	6 8.3	17	3.8			-3.7(.6)					165	-48	00?004002
365	2 36 55	39 37.3	21	2.8	.9(.3)				40047		DO 9448	145	-18	001000000
4025	2 37 5	-6 28.1	13	4.1	1.4(.3)							179	-57	00?107000
367	2 38 6	30 59.0	17	2.2	.9(.3)				30046		Y ARI	149	-26	001000000
369	2 39 55	-5 46.6	10	2.7	1.9(.3)						NGC 1063	179	-56	001107000
371	2 40 47	36 2.4	19	2.6		-1.1(.4)			40049		TV PER	147	-21	002000000
372	2 42 17	-29 27.5	7	2.2	1.3(.3)				-30025		ST FOR	224	-65	000101100
373	2 42 40	62 48.5	18	1.9	.7(.3)	-.7(.4)			60095		CQ CAS	136	3	013003+00
377	2 45 6	29 3.4	17	2.2	1.7(.3)				30050	824	39 ARI R	151	-27	001000000
378	2 45 29	-12 39.3	6	1.6	.2(.3)	-1.0(.4)			-10040	832	Z ERI	190	-59	00330330?
379	2 45 34	17 17.9	10	1.9	-.3(.2)	-.9(.4)	-3.1(.5)		20049		T ARI	159	-37	001007000
380	2 45 49	60 50.3	19	2.3	.9(.3)				60096			137	1	0+1001+001
381	2 46 36	56 46.0	17	2.1	.7(.3)	-1.3(.3)	-3.3(.5)		60097		W PER	139	-2	003004000
4026	2 46 52	60 32.2	24	2.8	1.8(.5)				60098		V499 CAS	137	1	0?100??001
382	2 46 58	55 40.9	17	2.4	-.2(.3)				60099	834	ETA PER	139	-3	00100+000
384	2 47 7	57 39.4	19	2.4	1.5(.3)				60100		SVS 6000	138	-1	0010010001
383	2 47 12	-45 3.6	12	3.8	.8(.4)							258	-61	000000100
4027	2 47 26	59 3.1	21	3.0	1.3(.4)				60101		GS CAS	138	-0	00?00?1001
385	2 48 29	34 51.0	19	2.6	.4(.3)				30051	843	17 PER	149	-22	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
386	2 48 44	53 48.1	20	2.4	.9(.3)	-.5(.5)			50076		SVS 6002	140	-5	001003000
387	2 48 56	54 40.7	20	2.4			-3.1(.4)					140	-4	004004000
389	2 49 13	14 12.8	12	2.3		-.8(.3)						162	-39	002002000
392	2 49 48	-9 28.3	7	1.9	.1(.3)				-10041		RR ERI	185	-56	001101000
393	2 50 15	74 7.4	20	1.5	1.5(.4)	-1.2(.4)			70039		DO 26303	131	13	01113?100
396	2 51 9	9 7.2	12	2.4	.0(.2)				10033		DO 487	166	-43	001001000
4028	2 52 21	64 9.3	27	4.0	1.0(.4)				60104	861	SVS 100245	136	5	0?+00?100
400	2 53 5	54 27.0	20	2.4	.1(.3)	-.3(.4)			50080		ER PER	140	-4	003003000
401	2 53 8	18 7.5	12	2.2	-1.4(.3)	-1.3(.3)			20051	867	45 ARI	160	-35	003002000
403	2 54 0	-9 5.1	7	1.8	.9(.3)		-3.1(.6)		-10043	874	ETA ERI	187	-55	001101004
404	2 54 7	14 25.1	17	3.0	.7(.3)				10034		DO 9638	163	-38	00100+000
405	2 54 21	4 19.5	12	2.5	.7(.3)				36	877	DO 492	171	-46	001001000
406	2 55 15	62 54.8	20	2.4	1.6(.4)				60107		DO 26463	137	4	01?00?1001
409	2 56 52	41 19.3	22	3.1		-1.8(.4)						147	-15	002007000
410	2 57 11	43 58.3	22	2.6	.7(.3)				40052		AE PER	146	-13	00+001000
4029	2 57 17	60 16.9	19	2.4			-3.6(.6)					138	2	004007+004
412	2 58 12	13 46.7	17	3.0	1.6(.3)							164	-38	001007000
413	2 58 17	-3 3.6	11	2.5	1.1(.3)				37	904	CV ERI	180	-51	001+01000
414	2 58 34	21 36.3	10	2.5	.8(.3)		-3.1(.4)		20052			159	-32	000005000
416	2 59 13	60 18.5	18	2.3		-.4(.5)					SHARP. 201	138	2	0020022002
418	2 59 36	79 12.8	31	1.7	.8(.3)				80007	881	DO 26502	129	18	0+?111100
419	2 59 42	3 53.1	12	2.5	-2.0(.2)	-1.9(.3)			38	911	ALF CET	173	-46	003003000
425	3 1 13	53 18.3	19	2.4	.8(.3)				50084	915	GAM PER	142	-4	001001000
428	3 1 54	38 38.8	11	1.6	-2.5(.3)	-2.5(.3)			40054	921	RHO PER	150	-17	002003000
432	3 2 26	75 33.5	25	1.7	1.0(.3)				80008		DO 26603	131	15	011??1100
434	3 3 0	55 33.6	20	2.4	.4(.3)	-2.2(.3)	-3.5(.4)		60110		IO PER	141	-2	007007000
437	3 3 58	58 16.7	15	3.0		.1(.4)	-3.1(.4)					140	0	000607?00
439	3 4 3	-6 17.0	7	2.0	.2(.3)				-10045	935	GC 3718	186	-52	001101000
440	3 4 3	58 50.2	17	2.1	1.1(.4)				60112		DO 26691	140	1	001001100
441	3 4 9	-47 3.5	14	3.9	-.2(.4)							259	-57	000000100
443	3 4 59	40 46.4	14	1.8	1.6(.3)		-2.5(.5)		40055	936	BET PER	149	-15	001005000
449	3 6 21	44 40.1	16	2.1	1.0(.3)				40057	941	KAP PER	147	-11	001001000
453	3 7 38	57 42.6	13	1.6	.2(.3)	-.7(.4)			60113		SVS 6011	141	-0	003001100
454	3 8 4	-47 56.8	14	3.9	*		-5.1(.5)					260	-56	000000400
455	3 8 24	14 35.8	17	3.3	.4(.3)	-.5(.4)			10040		U ARI	166	-36	000003000
4030	3 8 33	-56 32.4	25	3.8			-5.3(.4)					272	-52	000000040
457	3 8 49	74 3.2	24	1.9	1.2(.4)		-3.1(.5)		70040		DO 26751	132	14	0?1+41100
458	3 8 56	-33 43.8	8	2.7			-4.2(.4)					234	-59	00+400300
461	3 9 54	6 29.2	17	3.4	1.4(.3)				10041	958	GC 3827	173	-42	001007000
4031	3 9 57	-29 12.3	12	3.9	1.2(.4)				-30028	963	ALF FOR	225	-59	00??07100
463	3 11 22	-44 35.6	14	3.9	1.1(.4)							254	-57	000000100
464	3 11 58	46 23.9	13	1.9	.6(.3)	-.7(.4)			50090		AA PER	147	-9	003001000
466	3 12 14	64 34.1	18	2.1	1.1(.3)	.1(.4)			60116		DO 26859	138	6	01300+1003
465	3 12 16	-2 31.8	15	3.6	1.6(.3)				41		DO 531	183	-48	00?001000
467	3 12 32	45 10.2	13	2.1	1.3(.3)				50092	973	GC 3884	148	-10	001001000
471	3 14 48	32 45.5	18	2.5	.6(.3)				30056		DO 9849	155	-21	000001000
472	3 14 53	81 58.5	56	2.1	1.7(.3)						DO 26771	128	21	01?1?1?00
4032	3 15 5	-9 36.2	11	3.9	1.8(.3)							193	-51	00?107?00
474	3 17 14	31 49.4	18	2.6	.6(.3)	-.8(.4)			30061		UZ PER	156	-21	000003000
475	3 17 22	-21 57.1	6	1.6	-1.5(.3)	-1.5(.3)	-3.3(.5)		-20041	1003	TAU4 ERI	212	-56	003307707

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
476	3 17 25	-24 18.0	6	1.7	1.0(.3)	-.8(.4)			-20042	1004	SVS 6026		216	-57	001101307
477	3 17 29	28 51.5	18	2.8	.5(.3)				30062	999	DO 9880		158	-23	000001000
481	3 18 20	22 48.3	17	2.9	1.1(.3)								162	-28	000001000
482	3 18 39	70 16.9	18	1.7	.9(.3)	-1.9(.3)	-2.8(.4)						135	11	037+22300
483	3 19 31	32 3.9	18	2.6	1.0(.3)				30063		DO 9900		157	-21	000001000
485	3 20 18	64 25.3	16	1.7	.1(.3)	-1.5(.5)			60117	1009	DO 27024		138	6	0310+13003
487	3 20 49	49 40.6	10	1.8	.1(.2)				50095	1017	ALF PER		147	-6	001001000
489	3 22 56	47 21.2	13	1.7	-.9(.3)	-3.3(.3)	-3.9(.4)		50096		V384 PER		148	-8	007003000
488	3 22 57	-12 30.2	8	2.2	1.6(.4)				-10047		VX ERI		198	-51	007101100
490	3 23 59	58 35.4	15	3.0		-.6(.4)	-3.1(.4)						142	2	006007?00
491	3 25 11	71 42.1	18	1.8	1.0(.3)				70043	1032	DO 27100	R	135	13	0?111?100
492	3 26 55	47 48.4	16	2.1	.8(.3)	-.9(.4)	-3.1(.4)		50098	1052	SIG PER		148	-7	007001000
4033	3 27 50	-19 24.3	9	3.8		-1.3(.3)	-2.9(.5)						209	-53	007607?0?
494	3 28 4	-2 5.8	16	3.5	.9(.3)				46		DO 587		186	-44	00+001000
496	3 29 2	19 54.8	17	3.1	1.0(.3)								167	-29	000001000
497	3 30 35	-9 38.9	8	2.3	1.3(.3)	-1.2(.5)			-10048	1084	EPS ERI		196	-48	00110+207
4034	3 31 30	-12 57.8	15	3.9	1.6(.3)							EO	200	-49	001?07?00
500	3 31 54	-16 20.2	7	1.9	-.4(.3)	-1.9(.3)	-2.5(.4)		-20043		RT ERI		205	-51	002703307
4035	3 33 16	-18 52.3	8	3.7	1.6(.3)								209	-51	007107?00
503	3 36 6	-33 .8	8	2.1		-1.5(.4)	-3.2(.4)						232	-54	004600+00
505	3 37 23	62 29.4	14	1.8	-.6(.2)	-1.5(.3)			60124		U CAM		141	6	003003200
506	3 37 44	63 3.0	23	2.8	-.0(.3)	-1.3(.4)			60125	1105	SVS 328		141	6	001007300
507	3 37 57	51 18.3	26	3.9	.3(.3)				50100		SVS 100294		148	-3	001007000
511	3 38 54	-10 54.4	8	2.2	1.1(.3)		-3.0(.5)		-10049		VY ERI		199	-47	001405?00
512	3 40 44	12 37.4	16	3.1	.7(.3)				10047		DO 633		175	-32	000001000
513	3 40 47	-9 57.4	7	2.0	1.1(.3)				-10050	1136	DEL ERI		198	-46	00110+100
514	3 41 8	80 10.6	30	1.6	-.6(.3)	-1.3(.3)			80009		SS CEP		130	20	03133+300
515	3 41 18	-31 10.4	7	2.?	1.2(.3)		-3.0(.5)		-30030		GC 4458		229	-52	001500107
516	3 41 47	-43 3.1	15	3.?		-3.2(.4)	-5.2(.5)						249	-52	000000500
517	3 42 26	53 45.5	27	4.0	1.2(.3)				50103		SVS 341	R	147	-1	001007000
519	3 43 45	-12 16.1	7	1.9	.0(.3)	-.9(.4)			-10051	1162	PI ERI		202	-46	001301300
4036	3 44 35	-3 55.9	11	2.8	1.8(.3)								192	-42	001007100
520	3 44 55	65 22.4	17	1.9	-1.0(.3)	-1.3(.3)			70046	1155	SVS 343		140	9	003012300
521	3 44 59	50 41.5	14	1.6	1.2(.4)				50106		DO 27580		149	-3	001001000
522	3 45 56	50 55.5	17	2.2	1.3(.3)				50108		AP PER		149	-3	001001000
523	3 46 3	63 30.4	23	2.8	1.0(.4)				60129		DO 27585		141	7	0010??100
524	3 46 10	67 29.2	25	2.3	1.2(.3)				70047				139	10	07+011?001
525	3 46 16	-7 9.9	7	1.7	.5(.3)	-1.6(.4)			-10052		BR ERI		196	-43	003101100
4037	3 46 26	-20 58.3	8	2.1	1.3(.3)				-20044	1187	GC 4593		214	-49	001107?00
4038	3 47 25	-18 53.5	16	3.4			-3.5(.6)						211	-48	007?07?04
526	3 48 21	-32 25.9	8	2.6	1.6(.4)				-30031		GC 4640		232	-51	007100107
527	3 49 5	39 43.5	19	2.2	.6(.3)	-.9(.4)			40070				157	-11	000003000
528	3 49 16	44 55.5	20	1.9	1.0(.3)				40071		DO 27661		153	-7	000001000
529	3 50 55	11 14.3	9	2.3	-1.7(.3)	-4.2(.3)	-5.5(.4)		10050		IK TAU		178	-31	000007000
530	3 51 22	-11 45.6	11	2.7			-3.2(.4)						202	-45	004?04?00
531	3 51 43	57 31.6	20	2.4	1.2(.3)				60133		DO 27693		146	3	001001?00
4039	3 52 56	60 58.2	32	4.1	.7(.4)				60134	1205	GC 4727		144	6	00+007100
534	3 54 5	-13 45.6	8	2.1	1.4(.3)				-10054		GC 4748		205	-45	007101100
537	3 55 43	-13 39.0	7	1.9	-1.3(.3)	-1.6(.3)			-10055	1231	GAM ERI		205	-44	003303300
4040	3 55 45	-5 48.4	9	3.7	1.7(.3)								196	-41	000107?00

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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
4041	3 56 47	-13 48.0	16	3.4	*		-3.7(.4)						206	-44	00??04?00
4042	3 57 12	-12 42.1	11	2.9	1.3(.4)				-10056	1235	GC 4791		204	-44	001?0+100
538	3 58 13	57 2.6	20	2.4			-3.8(.4)						147	3	00+004400
4043	4 1 2	68 33.6	32	3.1	1.4(.4)				70049	1241	GC 4874		139	12	0???1??001
540	4 1 20	-24 34.2	6	2.2	1.4(.3)				-20048		GC 4885		221	-47	001100?00
542	4 2 3	-15 53.2	7	1.7	-1.1(.3)	-2.3(.3)	-3.3(.4)		-20049		V ERI		209	-44	007707700
543	4 3 32	-10 26.1	8	2.3	1.6(.4)				-10059		CY ERI		202	-41	00110?100
545	4 4 20	42 53.2	20	2.2	.9(.3)				40074		IY PER	R	157	-7	000001000
4044	4 5 14	68 33.5	25	2.5	1.2(.4)	-.9(.5)			70050				139	12	01++???003
548	4 6 31	-8 14.9	7	1.7	1.2(.3)				-10061		DD ERI		200	-40	001101?00
549	4 7 4	42 3.8	20	2.0	1.2(.3)				40077		SW PER		158	-7	000001000
550	4 7 15	51 2.5	17	2.1		-.9(.4)	-4.1(.4)				SHARP. 209	R	152	-0	000006200
551	4 8 35	2 14.7	11	2.5	1.0(.3)				53		DO 717		190	-34	000001100
552	4 9 25	-25 15.3	7	1.9	.7(.3)	-1.3(.5)			-30033		W ERI		222	-45	003303302
553	4 11 7	-10 32.0	7	1.9	1.0(.3)				-10062		BM ERI		204	-40	001101100
555	4 12 27	23 57.4	17	2.8	.5(.3)				20073		SVS 6099		172	-19	000001000
556	4 12 33	33 42.7	19	2.4	1.1(.3)				30079				164	-12	000001000
558	4 13 1	50 32.2	17	2.1	.6(.3)				50115		SY PER		153	0	000001100
559	4 13 15	62 13.5	18	2.0	1.0(.4)				60140		ZZ CAM		144	8	0010+1100
4045	4 13 36	-21 8.9	14	4.0	1.5(.3)							R	217	-43	001?00?00
560	4 13 38	31 14.9	18	2.5	.4(.3)				30080		DO 10379		166	-14	000001000
4046	4 13 53	-81 59.3	93	4.0		-2.2(.4)	-3.3(.5)				U MEN		296	-32	000000060
562	4 15 7	-38 13.7	10	2.7		-2.0(.4)							241	-46	002000207
563	4 15 37	-18 38.0	7	2.0	.6(.3)				-20052		RS ERI		214	-42	001100100
564	4 16 1	-20 49.9	8	2.8	.4(.3)				-20053	1345	GC 5202		217	-43	001100+00
565	4 16 28	40 56.7	20	2.1	-.7(.3)	-1.8(.3)			40082		IR PER		160	-6	000003000
566	4 16 54	15 31.7	17	3.0	1.3(.3)	-.9(.4)			20074	1346	SVS 102439		179	-24	000003000
567	4 17 25	60 37.7	15	1.8	1.2(.4)	-1.9(.4)			60141	1335	DO 28206		146	8	001031100
570	4 18 52	68 7.2	21	2.3	1.7(.3)						SX CAM		141	13	0???1??001
571	4 19 11	-22 18.7	9	2.7	1.7(.4)	-.3(.5)							219	-42	00?100300
572	4 19 23	20 42.8	9	2.2	.9(.3)				20075	1370	DO 10422		175	-20	000001000
574	4 20 42	-13 .3	8	2.1	1.6(.3)	-1.4(.5)							208	-39	00?302200
579	4 22 18	-34 9.1	8	2.2	.4(.3)				-30029E	1393	43 ERI		235	-44	001100100
4047	4 24 22	69 16.2	29	2.6	1.3(.4)	-.6(.4)			70053		DO 28302		140	14	0?++???3003
4048	4 25 41	-23 10.9	9	3.8	1.8(.3)								221	-41	00?10C?00
581	4 25 51	10 .4	12	2.3	.4(.3)	-.8(.4)			10060		R TAU		185	-26	000001300
582	4 26 12	39 46.5	20	2.3	1.0(.3)	-.1(.5)			40089		GI PER		162	-6	000003000
583	4 26 14	57 18.3	15	1.6	.3(.3)	-1.0(.3)	-3.2(.5)		60143		RV CAM		149	6	003007300
585	4 27 7	35 9.9	10	2.0	-.2(.3)	-2.9(.3)	-4.4(.4)		40091		V346 PER	R	165	-9	000007000
586	4 27 55	27 24.1	18	2.7	.7(.3)				30087		DO 10530		171	-14	000001000
589	4 29 4	22 45.2	17	2.9			-3.9(.4)						175	-17	000004000
590	4 29 28	31 .6	18	2.6	.8(.3)				30088				169	-11	000001000
591	4 29 28	-37 9.6	17	3.8	1.1(.4)	-.9(.4)							240	-43	00?000302
592	4 29 29	8 51.0	17	3.5	1.0(.4)								187	-26	000002100
593	4 29 42	48 36.4	11	1.8	.6(.3)				50121		DO 28391		156	1	000001+00
595	4 30 40	62 8.6	15	1.7	-.1(.3)	-1.9(.3)	-3.0(.4)		60144		DO 28489		146	10	007037300
598	4 31 48	-8 20.1	8	2.1	.4(.3)	-2.1(.4)			-10070	1451	47 ERI		204	-34	000103100
599	4 31 49	-9 3.6	10	2.7	1.5(.3)				-10071	1452	GC 5577		205	-35	000102100
600	4 32 36	28 25.8	18	2.7	.5(.3)	-.4(.4)			30090		IU TAU		171	-13	000003000
601	4 33 10	16 23.3	9	2.0	-3.2(.3)	-3.2(.3)			20087	1457	ALF TAU		181	-20	000003000

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
602	4 33 29	41 9.6	20	2.3	1.1(.3)				40093	1454	58 PER		162	-4	000001000
603	4 33 39	-30 42.6	7	2.2	1.4(.4)				-30037	1464	UPS2 ERI		231	-41	001100?00
604	4 33 47	-5 25.5	10	2.7	1.6(.3)				-10072				201	-32	000107?00
605	4 34 28	-27 42.3	7	2.2	1.2(.4)				-30038		UU ERI		227	-40	001100100
606	4 34 58	66 3.3	24	2.7	-.1(.3)	-.5(.4)			70054		T CAM		143	13	0030++100
608	4 35 29	8 14.4	9	2.0	.6(.3)	-1.4(.4)			10066		RX TAU		188	-25	000001300
610	4 35 56	-14 26.7	8	2.3	.8(.3)				-10073	1481	53 ERI		211	-36	001100100
612	4 37 27	17 25.5	17	3.0	.8(.4)							R	181	-19	000007100
614	4 38 11	-19 45.2	7	2.2	-.5(.3)	-.7(.4)			-20059	1496	DM ERI		218	-37	001300100
615	4 38 15	-14 19.0	8	2.3	.0(.3)	-1.0(.3)			-10075		BX ERI		212	-35	003300100
617	4 38 41	-38 18.3	10	2.7	.1(.3)	-1.9(.4)			-30034E		R CAE		241	-41	003000107
618	4 39 30	36 1.8	19	2.5		-2.5(.3)	-4.8(.4)						166	-7	000006000
619	4 39 37	6 47.2	11	2.3	1.2(.3)	-1.2(.4)			10068		BZ TAU		190	-25	000003100
621	4 40 42	17 13.9	9	2.4	.4(.4)								181	-18	000007100
622	4 40 56	20 40.7	12	1.9	1.1(.3)				20089		DO 10703		179	-16	00\007100
624	4 41 43	32 51.6	19	2.6	.5(.3)				30093		DO 10715	R	169	-8	000001000
627	4 41 58	-12 46.5	9	2.7	1.0(.4)				-10077				210	-34	000100100
632	4 44 38	61 25.8	18	1.8	1.0(.3)	-1.3(.4)			60145		SVS 100406		148	11	00+011300
633	4 46 8	68 5.8	15	1.5	-.4(.3)	-1.3(.3)	-2.4(.5)		70055		ST CAM.EO		142	15	003721300
634	4 46 12	-3 57.5	10	2.6		-.5(.4)	-3.7(.4)						202	-29	000604?00
635	4 46 43	37 23.4	14	1.8	1.0(.3)				40099	1533	GC 5868	R	166	-5	000001100
636	4 47 34	63 25.5	18	2.1	.5(.3)				60147	1527	GC 5881		146	12	00101?100
639	4 48 33	28 25.6	12	1.7	.2(.3)				30098		TT TAU		174	-10	000001100
643	4 49 21	38 25.4	20	2.7	.7(.4)				40101		SVS 6136		166	-3	000007100
644	4 49 45	14 9.1	12	2.1	-.8(.3)	-1.3(.4)			10072	1556	OMI1 ORI		185	-13	000003200
645	4 50 9	22 51.3	9	2.0	1.4(.3)								178	-13	000001?00
647	4 50 39	2 25.4	16	3.4	.6(.4)				64	1562	5 ORI		196	-25	000007100
648	4 52 55	59 3.8	14	1.6	.7(.3)	-1.1(.5)			60149		DO 28749		150	10	003031100
649	4 52 56	-2 58.7	13	4.1	1.2(.3)								202	-27	000100?00
650	4 53 18	-4 45.6	10	2.7	1.2(.4)								203	-28	000100100
652	4 53 26	13 28.2	16	2.9	.9(.3)				10075	1580	OMI2 ORI		187	-18	000001+00
654	4 53 50	33 4.6	9	2.2	-1.0(.4)	-1.7(.4)			30100	1577	IOT AUR		171	-6	000007300
659	4 55 52	1 38.1	16	3.4	1.1(.4)				65	1601	PI6 ORI		198	-24	000007100
661	4 56 6	-16 43.9	8	2.8	1.5(.3)				-20064				216	-32	001100?00
663	4 56 32	74 10.6	29	1.9	1.5(.4)		-3.1(.4)		70057	1572	DO 28769		138	19	01+?51?00
664	4 56 44	56 6.8	16	1.7	-1.9(.3)	-4.2(.3)	-5.2(.4)		60150		TX CAM.EO		153	9	000077700
667	4 57 19	-14 53.9	5	1.6	-1.6(.3)	-3.0(.3)	-3.1(.4)		-10080	1607	R LEP		214	-31	007700300
669	4 57 56	-28 7.3	10	2.6	1.7(.4)								229	-36	001?00100
671	4 58 59	60 22.6	22	2.4	1.4(.3)				60151	1603	BET CAM	R	150	11	00?01?100
672	4 59 5	50 35.1	24	2.2	7(.3)				50135		EL AUR		157	5	000001+00
674	4 59 11	41 0.0	20	2.3	-.3(.3)				40110	1612	ZET AUR		165	-0	000001+00
681	5 2 41	44 47.5	12	1.7	.5(.3)				40111		DO 28943		162	2	000001100
682	5 2 42	-21 58.8	6	1.6	-.6(.3)	-1.8(.3)			-20066		T LEP		223	-33	003300300
683	5 2 45	1 5.8	16	3.4	-1.2(.4)	-1.9(.4)			66	1648	W ORI		199	-23	000000300
686	5 3 12	34 46.7	13	1.7	1.3(.4)				30102		DO 11028		170	-4	000001100
687	5 3 13	50 19.3	24	2.2		-1.3(.4)							158	6	000002?00
688	5 3 26	-22 27.0	9	2.0	-.4(.3)	-1.2(.4)			-20067	1654	EPS LEP		223	-33	003+00100
692	5 5 17	42 30.9	15	1.8	1.4(.3)				40114		DO 28987		165	1	000001100
693	5 5 24	68 36.5	20	1.6	.9(.3)	-1.1(.4)			70059		UX CAM		143	17	00+311100
694	5 5 31	-12 40.7	10	2.7	1.4(.3)				-10082		GC 6277		213	-29	000100100

TABLE OF OBSERVATIONS

SL	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
697	5 6 26	22 59.2	12	1.9	1.3(.3)				201C0				180	-10	000001100
698	5 6 28	14 17.7	17	2.9	1.2(.4)				10078		DO 993		188	-15	000007100
699	5 7 2	-34 37.0	7	2.2	-.4(.3)	-1.5(.3)			-30042E		SVS 507		238	-35	003000300
700	5 7 23	52 48.5	18	1.9	.6(.3)	-2.1(.3)	-3.8(.4)		50137		NV AUR		156	8	000007300
4049	5 8 23	29 49.5	17	2.2	1.2(.4)				30105		DO 11103,EO		175	-6	000007100
702	5 8 57	-11 53.1	10	2.7	-1.8(.3)	-2.4(.3)	-4.0(.5)		-10084	1693	RX LEP		213	-28	000700700
706	5 10 30	2 48.2	16	3.2	1.2(.4)				68	1698	RHO ORI		198	-20	000000100
707	5 11 11	0 31.8	11	2.5	1.7(.3)		-3.4(.4)		69	1703	DO 1025		201	-21	000500?00
708	5 11 58	-0 36.7	9	2.0	.5(.3)				70		DO 1031		202	-22	000100100
709	5 12 4	49 30.0	17	1.8	.9(.3)				50138		UX AUR		160	7	000001100
710	5 12 19	-8 17.1	10	2.6	-.0(.3)				-10085	1713	BET ORI		209	-25	000100100
713	5 13 2	45 56.3	13	1.6	-2.1(.3)	-2.3(.3)			50139	1708	ALF AUR		163	5	000003300
714	5 13 12	11 56.8	11	2.1	.6(.3)		-3.9(.5)		10081		V431 ORI		191	-15	000004100
715	5 13 16	53 32.5	15	1.7	-1.3(.3)	-2.5(.3)	-2.9(.5)		50141	1707	R AUR		156	9	000037300
720	5 14 34	42 44.3	12	1.6	-.1(.3)	-1.2(.4)			40119	1722	SVS 524		165	3	000003300
721	5 14 34	29 33.7	17	2.0	1.0(.4)								176	-5	000007100
722	5 15 1	33 18.0	13	1.6	1.4(.3)				30107	1726	16 AUR		173	-2	000001100
724	5 15 8	63 13.0	16	1.6	.4(.3)	-2.1(.3)	-3.0(.4)		60154				148	15	007037300
725	5 15 14	13 20.2	9	1.9	.6(.3)				10082		DO 1049		190	-14	000001100
728	5 15 49	62 36.6	19	2.1	1.3(.3)				60155	1720	DO 29132		149	14	0010?1?00
729	5 16 10	-10 12.1	13	4.0	1.6(.3)								212	-25	000100?00
4050	5 16 41	-65 2.0	23	3.9			-3.6(.4)				NGC 1892		275	-34	000000040
732	5 17 22	-25 9.8	7	2.1	1.0(.3)				-30043				227	-31	001100100
733	5 17 43	-17 56.6	6	2.0	1.1(.3)	-1.5(.5)			-20069				220	-28	002100300
735	5 18 26	32 29.2	17	1.9	1.3(.4)	-1.3(.4)			30110		UV AUR,EO		174	-2	000007300
4051	5 20 56	-4 39.1	14	4.1	1.6(.3)				71		V535 ORI,EO		207	-22	000100?00
4052	5 21 26	-20 35.3	12	3.9	1.6(.3)								223	-28	00?100?00
739	5 21 42	36 8.2	11	1.6	1.6(.4)		-4.7(.5)		40126		GC 6640		172	0	000001500
740	5 22 6	-6 12.8	10	2.6	.6(.3)				-10091		EX ORI		208	-22	000100100
4053	5 22 32	38 20.1	19	2.1	.8(.4)								170	2	000007100
744	5 23 36	-0 40.8	15	4.2	1.5(.3)								203	-19	000100?00
746	5 23 50	48 40.6	13	1.6	1.4(.3)		-4.1(.5)		50145		DO 29288		161	8	000001500
748	5 23 51	34 6.4	6	1.4	-.1(.3)	-1.6(.4)	-4.1(.5)		30114		S AUR		173	-1	000003700
749	5 23 58	29 52.5	12	1.7	1.1(.3)				30115		DO 11262		177	-3	000001100
751	5 24 16	23 3.4	12	1.9	.9(.3)				20106				183	-7	000001100
752	5 25 19	17 11.8	17	2.7	1.1(.4)		-3.6(.5)		20107	1816	117 TAU		188	-10	000007500
753	5 25 21	63 0.0	19	1.6	.8(.3)				60157	1802	17 CAM		149	15	00+011100
754	5 25 28	32 25.2	13	1.6	.7(.3)	-1.2(.4)			30117		DO 11278		175	-1	000003100
755	5 25 30	38 59.3	9	2.0	.9(.4)				40130		AD AUR		170	3	000007100
756	5 26 5	-20 49.1	7	1.8	.8(.3)	-.9(.4)			-20071	1829	BET LEP		224	-27	001300100
757	5 26 40	-4 46.8	10	2.6	-.7(.3)	-1.7(.3)			74		S ORI	R	208	-20	000300200
759	5 27 15	-1 9.5	9	2.0	.5(.3)				75	1834	31 ORI		204	-19	000100100
761	5 28 8	18 30.8	10	1.7	1.2(.3)	-1.7(.4)			20111		DV TAU		187	-8	000003300
767	5 29 6	18 31.3	12	2.0	-1.2(.3)	-1.5(.3)			20112	1845	119 TAU		187	-8	000003300
766	5 29 23	-35 29.9	8	3.6	1.1(.3)	-1.1(.4)			-30049E	1862	EPS COL		240	-31	003000000
768	5 29 36	65 1.9	25	2.6	1.4(.3)				70063		DO 29388		140	17	00?11??00
769	5 30 7	12 59.2	16	2.7	.7(.4)				10088		DO 1158		192	-11	000000100
771	5 30 30	-17 49.2	8	2.7	1.3(.3)	-1.1(.5)			-20073	1865	ALF LEP		221	-25	001200?00
776	5 31 57	-5 14.8	10	2.6		-1.3(.3)					IS ORI	R	209	-19	000200200
777	5 32 6	54 24.5	19	1.7	1.3(.3)				50148	1866	DO 19463		157	12	0000+1100

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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
778	5 32 26	67 25.4	28	2.6	1.4(.3)							145	18	00?11?700
780	5 32 35	8 40.1	16	2.9	.3(.4)		-3.8(.5)		10090		SVS 6229	196	-13	000000500
781	5 32 36	-4 56.4	11	2.6	1.5(.4)	-2.4(.3)					V556 ORI.EO.R	209	-19	000300200
782	5 32 45	38 .6	11	2.0	1.0(.3)				40134		IX AUR R	171	3	000001?00
779	5 32 50	-5 26.6	10	2.6	-1.1(.3)	<-5.1(.3)	<-7.3(.3)		-10093		M 42.EO.R	209	-19	000?00?00
786	5 35 3	-1 48.2	11	2.6	.4(.3)	-1.8(.4)			80		X ORI	206	-17	000300100
787	5 35 26	42 35.7	21	2.2	.6(.4)							168	6	000001100
788	5 35 31	24 57.7	12	1.9	-.1(.3)	-1.7(.4)			20116		GP TAU	183	-3	000003100
4054	5 35 39	-47 57.5	22	3.6			-5.1(.6)					255	-32	000000004
789	5 35 54	18 25.8	16	2.5	1.0(.4)							188	-7	000001100
791	5 36 9	46 44.1	13	1.6		-1.9(.3)	-3.5(.4)		50149		DO 29520	164	8	000006200
792	5 36 23	-35 30.6	8	3.6	1.2(.3)							240	-30	001000000
793	5 36 37	-14 4.6	10	2.6	.1(.3)	-.5(.4)			-10094		RW LEP	218	-22	000300300
794	5 36 44	37 36.0	13	1.6	.1(.3)	-2.0(.3)			40135		RU AUR	172	4	000003300
795	5 37 11	-12 28.6	9	2.3	1.7(.3)							216	-22	000100?00
796	5 37 19	-8 11.4	10	2.6	.7(.3)	-1.1(.4)			-10095			212	-20	000100300
797	5 37 29	31 53.9	10	1.7	.5(.3)				30124	1939	NO AUR	177	1	000001100
799	5 37 56	13 45.7	16	2.7	1.0(.4)	-1.2(.4)						192	-9	000000300
800	5 37 56	28 3.6	9	2.0	.2(.4)				30125		AB TAU R	180	-1	000007100
801	5 38 19	12 16.1	16	2.8	.5(.4)	-1.0(.4)			10094		DO 1241.EO	194	-10	000000300
802	5 38 26	38 55.5	20	2.6	.4(.3)				40136		SZ AUR	171	5	000001+00
4055	5 38 27	-69 12.6	21	1.9		-1.9(.4)	-5.2(.4)	-6.5(.6)			NGC 2060 R	280	-32	000000070
803	5 38 38	17 28.0	16	2.6	1.1(.4)				20118		DO 11484	189	-7	000000100
804	5 39 3	-4 8.9	11	2.6	1.1(.3)				82		Y ORI	209	-17	000100100
805	5 39 4	32 .4	10	1.4	-.4(.3)	-1.9(.3)			30126		U AUR	177	1	000003100
806	5 39 6	-2 17.0	14	4.0		-1.9(.3)	-3.1(.4)				NGC 2023	207	-17	000600+00
807	5 39 12	-1 56.9	11	2.6	.4(.3)	-3.5(.3)	-6.3(.6)				NGC 2024.EO.R	207	-16	000700700
4056	5 39 57	-69 45.7	25	3.8		-1.8(.4)	-3.3(.5)	-7.1(.6)			NGC 2079 R	280	-32	000000070
809	5 40 36	32 41.1	13	1.7	.4(.3)	-2.4(.3)	-3.8(.4)					177	2	000007200
811	5 41 11	69 58.1	17	1.1	-.6(.3)	-2.9(.3)	-3.9(.4)		70066			143	20	007777300
812	5 42 13	24 22.7	9	1.9	.8(.4)				20120		TU TAU	184	-2	00000+100
4057	5 43 45	-66 26.9	21	3.8			-3.7(.5)	-7.4(.6)			NGC 2105	276	-31	000000050
815	5 44 7	43 11.9	12	1.6	.8(.3)				40140			168	8	000001100
818	5 44 29	0 18.1	10	2.0		-1.1(.3)	-4.0(.4)				NGC 2071	205	-14	000000400
820	5 45 5	-21 34.1	7	2.2	1.4(.3)				-20080			226	-23	001100?00
819	5 45 6	-12 52.2	6	1.6	1.2(.3)				-10097			218	-20	000100100
821	5 47 10	18 27.3	16	2.5			-4.9(.5)					190	-5	000000400
822	5 47 41	37 17.9	7	1.3	.5(.3)	-1.0(.5)			40143	2011	UPS AUR	173	5	000003100
823	5 48 20	32 5.1	13	1.7	1.0(.3)				30129	2018	DO 11629	178	3	000001100
826	5 49 5	63 1.9	14	1.6	1.2(.3)	-1.1(.3)			60159		TZ CAM	150	18	001331+00
828	5 49 7	-20 53.3	7	1.8	1.0(.3)				-20081	2035	DEL LEP	226	-22	001100100
829	5 49 11	-35 48.9	8	1.8	.3(.3)	-1.1(.4)			-30056E	2040	BET COL	241	-27	003000000
830	5 49 49	1 51.1	10	2.0	1.8(.3)				89	2037	56 ORI	204	-12	000100100
832	5 50 39	39 30.9	14	1.6	.8(.4)	-.2(.5)	-3.4(.5)		40145		DO 11680	172	7	000004300
834	5 52 10	0 57.6	7	1.7	1.6(.3)				91	2057	GC 7440	205	-12	000100100
836	5 52 25	7 24.7	10	2.3	<-3.6(.3)	-5.6(.3)	-5.9(.4)		10100	2061	ALF ORI	200	-9	000700600
837	5 52 57	20 9.2	17	2.5	-1.6(.4)				20127	2063	U ORI	189	-2	000000100
839	5 53 21	45 30.2	12	1.5	.1(.3)	-1.6(.4)	-3.5(.4)		50153		TW AUR	167	10	000037100
841	5 53 34	35 34.9	11	1.6	.1(.3)	-1.2(.4)			40146		DO 11724	175	5	000003300
842	5 53 43	48 21.6	13	1.6	1.3(.5)	-1.3(.5)			50154		LO AUR	164	12	000022300

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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
843	5 53 45	22 50.4	17	2.4	.3(.4)				20129		BQ ORI		187	-1	000000100
845	5 54 38	15 45.3	16	2.6	*	-1.5(.4)							193	-4	000000200
846	5 55 6	2 42.1	11	2.5	1.5(.3)				92		DO 1342		204	-11	000100100
847	5 55 32	-33 6.8	9	3.7	1.4(.3)								239	-25	001000000
848	5 55 34	54 16.8	15	1.6	1.1(.3)				50155	2077	DEL AUR		159	15	000011100
850	5 55 58	38 24.9	14	1.6	.9(.3)	-1.7(.3)			40149				173	7	000003200
849	5 55 59	74 32.0	20	1.3	.1(.3)	-1.7(.4)	-2.6(.4)		70067		V CAM		139	23	012?3?200
851	5 56 13	45 56.6	11	1.5	-1.1(.3)	-1.7(.3)			50156	2091	PI AUR		167	11	000031?00
853	5 57 39	39 38.8	9	1.6	1.2(.4)		-3.9(.6)		40151		AZ AUR		172	8	00000+500
856	5 58 54	10 54.6	12	2.4	.4(.3)				10103		DP ORI		197	-6	000100100
857	5 59 8	-7 36.1	14	3.9	1.1(.3)								214	-15	000100?00
858	5 59 11	-2 19.8	11	2.5	-.0(.5)	-1.1(.3)			96		V352 ORI		209	-12	000300100
860	5 59 27	37 43.9	18	1.7	.8(.4)								174	8	000007100
862	5 59 56	50 37.6	14	1.5	1.4(.4)				50158		DO 29938		163	14	000011100
864	6 1 6	28 28.1	17	2.2	.9(.4)	-.2(.5)			30136		BS AUR		182	3	000000300
865	6 1 18	7 25.4	11	2.5		-2.4(.3)	-3.2(.4)						201	-7	000600200
866	6 1 27	67 44.4	24	2.2	1.5(.3)								146	21	001??1?00
870	6 2 41	-16 28.6	8	2.1	.5(.3)	-1.5(.3)			-20084	2148	SVS 6421		223	-18	002300300
871	6 3 14	10 7.0	16	2.8	1.3(.4)								199	-5	000?00100
872	6 3 43	-24 11.5	9	2.7	-.8(.3)	-2.2(.3)	-3.1(.4)		-20085	2156	S LEP		230	-20	006300000
873	6 3 55	-5 43.3	11	2.5	1.5(.3)	-.8(.4)			-10109				213	-13	000300100
874	6 4 50	-21 48.0	7	2.2	.1(.2)		-3.2(.5)		-20086	2166	GC 7779		228	-19	001500000
876	6 5 18	34 53.7	18	1.9	.7(.4)				30139		SVS 6424		177	7	00000?100
877	6 5 19	-6 23.3	10	2.4	.5(.3)	-2.7(.3)	-6.1(.4)				NGC 2170	R	214	-13	000700300
878	6 5 25	-19 8.0	10	2.5	.6(.3)				-20087	2168	19 LEP		226	-18	001+00100
881	6 6 38	47 44.5	16	1.6	1.1(.3)				50160		DO 30067		166	13	0000+1100
882	6 6 50	60 28.5	16	1.5	1.2(.3)		-3.4(.4)		60163		DO 30048		154	19	004+11?00
883	6 7 1	31 23.5	18	2.1	.5(.4)				30141		BU AUR		181	6	000000100
884	6 7 40	65 44.3	20	2.0	1.4(.3)	-.8(.4)			70069	2165	36 CAM		149	21	0012?1?00
888	6 8 5	3 46.5	11	2.4	1.1(.3)				99				205	-7	000100100
891	6 8 27	11 15.3	17	3.9	1.3(.3)				10109		DO 1438		198	-4	000100?00
4058	6 8 34	-40 16.6	10	3.8	.6(.3)				-40047E	2203	GC 7873.EO		247	-25	001000000
892	6 8 56	-7 13.9	9	2.3	1.7(.3)				-10111				215	-12	000100?00
893	6 9 7	21 50.5	9	2.0	.8(.4)	-1.3(.4)			20134	2190	TV GEM		189	2	000000300
894	6 9 10	32 42.2	18	2.0	1.2(.4)		-3.4(.5)		30144	2189	GC 7888		180	7	000000500
895	6 9 22	22 53.8	17	2.4	.5(.4)	-1.4(.4)			20136	2197	6 GEM	R	188	2	000000300
896	6 10 4	17 59.3	16	2.6		-1.8(.4)	-3.5(.5)				SHARP. 257	R	193	-0	000000600
897	6 10 8	18 33.6	16	2.6	.9(.4)				20138		GI ORI		192	0	000000100
900	6 11 2	76 42.0	46	2.2	1.3(.3)				80013		DO 30069		137	24	0???1?100
901	6 11 12	60 1.7	22	2.2	1.5(.3)				60164	2201	40 CAM		154	19	00?1?1?00
902	6 11 31	13 52.2	10	1.9		-.6(.4)	-3.6(.5)				SHARP. 269		196	-2	000600400
903	6 12 8	56 45.8	16	1.5	.5(.3)	-.2(.5)			60165		DO 30164		158	18	000031100
905	6 12 22	-6 15.8	8	2.2	.6(.3)				-10113	2227	GAM MON		214	-11	000100100
906	6 13 6	-10 57.8	14	3.8	1.2(.3)								219	-13	000100?00
907	6 13 14	61 31.0	16	1.7	-.6(.3)	-1.1(.3)			60166	2215	UW LYN		153	20	00333+100
908	6 14 0	-27 27.1	11	3.9	.5(.3)				-30055				235	-19	001000000
909	6 14 3	33 13.1	9	1.8	-.1(.4)	-1.1(.4)			30148		VW AUR		180	8	000000300
910	6 15 2	8 31.4	11	2.4	1.2(.4)				10113		GK ORI		202	-4	000100100
912	6 17 5	-12 36.6	14	3.8	1.5(.3)				-10117				221	-13	000100?00
913	6 17 19	-2 54.2	11	2.4	.5(.3)				100	2275	SVS 100729		212	-8	000100100

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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
915	6 17 35	-10 36.0	6	1.6	.6(.3)	-2.7(.3)	-4.1(.4)						219	-12	000700?00
916	6 18 4	11 59.5	17	3.8	1.3(.3)								199	-1	000100?00
4059	6 18 12	49 4.7	23	3.1	1 0(.3)								165	16	000017?00
918	6 18 13	11 35.0	11	2.7	1.0(.3)	-1.3(.4)					DO 1513	R	199	-1	000300?00
919	6 18 16	2 37.4	11	2.4	1.3(.3)				101		DO 1522		207	-6	000100100
920	6 19 13	7 22.5	11	2.4	1.3(.3)				10118		BN MON		203	-3	000100100
921	6 19 21	-3 51.0	11	2.4	1.9(.4)	-1.6(.4)			102				213	-8	000300200
922	6 19 44	22 32.2	9	2.0	-2.2(.4)	-2.2(.4)			20144	2286	MUU GEM		190	4	000000300
923	6 19 47	3 27.2	11	2.4	1.1(.3)				103		FU MON		207	-5	000100100
924	6 20 7	-33 21.9	11	3.9	1.2(.3)				-30064E	2296	DEL COL		241	-20	001000000
925	6 20 8	-2 10.9	11	2.4	.1(.3)				104		V MON		212	-7	000100100
927	6 20 45	49 18.5	13	1.5	.2(.3)	-1.2(.4)			50164	2289	PSI1 AUR		165	16	000011300
928	6 21 39	-0 4.7	15	3.9	1.5(.3)				106				210	-6	000100?00
4060	6 21 40	-0 16.8	15	3.9	1.4(.3)				105			ED	210	-6	000100?00
931	6 22 32	58 27.4	14	1.6	1.1(.3)				60167	2293	S LYN		157	20	0011+1100
933	6 22 39	-9 6.5	11	2.4	.3(.3)	-1.2(.4)			-10122				218	-10	0003C0300
934	6 22 43	14 44.1	10	1.8	.1(.3)	-.7(.4)			10121	2308	BL ORI	R	197	1	000300100
935	6 23 2	-9 29.1	14	3.8	1.0(.3)	-1.3(.4)							219	-10	000300?00
936	6 23 15	5 35.1	16	3.8	1.1(.3)								205	-3	000100?00
937	6 23 15	19 6.0	12	2.1	1.5(.3)		-4.1(.5)		20145		AB GEM		193	3	000100400
938	6 23 32	68 57.4	31	1.9	1.8(.4)	-.8(.4)							146	23	00?732?00
940	6 23 59	9 2.9	17	3.8	1.4(.3)	-1.1(.3)							202	-1	000300?00
941	6 24 4	3 45.2	16	3.8	1.4(.3)						BY MON		207	-4	000100?00
943	6 24 20	5 25.3	11	2.3	1.6(.3)				10124		SW MON		205	-3	000100100
944	6 24 34	-19 35.3	10	2.8			-3.3(.4)						228	-14	004400?00
945	6 25 12	61 35.2	13	1.4	.8(.3)				60168		V LYN		153	21	001111100
4061	6 26 2	44 47.0	21	3.2	*		-3.3(.4)						170	15	00004??00
947	6 26 9	16 36.4	12	2.2	.5(.3)				20147		AQ GEM	R	196	3	000100100
4062	6 27 4	-72 47.4	23	1.7		-1.9(.5)	-3.4(.5)						284	-28	000000060
949	6 27 36	8 8.0	16	3.7	1.4(.3)				10125		DO 1612		203	-1	000100?00
950	6 27 56	27 28.7	9	1.9	-.2(.4)	-1.5(.4)			30153		DW GEM		186	8	000000300
4063	6 29 5	45 56.5	22	3.1	*		-3.4(.4)						169	16	00004??00
954	6 29 22	43 19.4	14	1.8	1.2(.3)	-1.4(.4)							172	15	00003?300
955	6 29 39	40 44.6	11	1.8	1.1(.4)	-1.5(.4)			40156		DO 12285		174	14	000020300
956	6 29 57	60 59.3	14	1.2	-.5(.3)	-2.8(.3)	-3.7(.4)		60169		DO 30551		154	22	007737300
957	6 30 16	55 24.1	16	1.8	1.4(.3)				60170	2376	7 LYN		160	20	0001?1?00
958	6 30 26	64 7.1	20	2.0	.9(.4)				60171		RT CAM		151	23	0011++100
959	6 31 41	16 4.9	12	2.2	.8(.3)				20152		CR GEM		197	4	000100100
961	6 31 54	4 16.6	16	3.7		-.4(.4)	-3.3(.4)						207	-2	000600?00
962	6 31 55	45 41.0	13	1.9	.6(.3)				50170		TU AUR		170	16	000011+00
964	6 32 1	4 59.1	11	2.3	1.1(.3)				10126		DO 1635		207	-1	000100100
965	6 32 19	-12 26.4	9	2.3	1.6(.3)								222	-9	00?100000
966	6 33 6	38 28.7	11	1.8	-1.3(.3)	-2.1(.3)			40158	2405	UU AUR		177	14	000030300
967	6 33 6	14 15.1	12	2.2	1.3(.3)	-.5(.4)			10128		DY GEM		199	3	000300100
968	6 33 19	-5 20.5	9	1.9	-.3(.3)	-1.5(.4)	-3.7(.5)		-10131		GL MON		216	-6	000300700
969	6 33 57	17 46.3	16	2.5		-1.4(.4)							195	5	000?00200
970	6 34 8	21 9.2	10	1.8	1.2(.3)	-.3(.4)			20153		AX GEM		192	6	000300100
971	6 34 19	3 26.4	16	2.8	.4(.4)	-2.2(.4)						R	208	-2	000+00300
975	6 34 44	16 26.7	12	2.2	1.5(.3)	.0(.4)			20154	2421	GAM GEM		197	4	000300100
976	6 34 47	14 42.7	17	3.7	1.5(.3)				10129		UU GEM		198	4	000100700

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	O '	S	'									O	O	
977	6 34 56	-1 21.3	9	1.9	.2(.3)	-1.3(.3)			119		SY MON	R	213	-4	000300300
980	6 35 44	-18 12.3	10	2.8	1.2(.3)				-20098	2443	NU3 CMA		228	-11	001100000
981	6 35 49	5 16.4	11	2.3	1.4(.3)				10130		DO 1689		207	-0	000100100
982	6 36 9	59 54.5	14	1.4	.4(.3)	-1.3(.4)	-3.0(.5)		60172		U LYN		156	22	003363300
985	6 36 51	-14 4.6	10	2.8	1.0(.3)				-10135	2450	GC 8694		224	-9	001100000
986	6 26 56	-2 25.2	9	2.3	1.8(.3)				122		DO 1697		214	-4	000100?00
989	6 38 26	9 32.3	10	2.5	1.4(.3)	-1.1(.3)	-3.3(.4)				MO MON		203	2	000?00?00
988	6 38 34	27 6.7	18	3.1	1.2(.3)								188	10	000100?00
990	6 38 48	2 48.5	16	3.7	1.5(.3)								209	-1	000100?00
991	6 38 52	55 32.1	12	1.4	.9(.3)	-1.0(.4)			60173		SU LYN		160	21	001113100
994	6 39 15	44 33.9	15	1.8	.9(.3)				40161	2459	PSI4 AUR		171	17	000010100
995	6 39 23	8 50.1	16	3.6	1.1(.3)								204	2	000100?00
996	6 39 38	1 24.1	15	3.6	1.5(.3)								211	-1	000100?00
997	6 40 9	-18 56.2	10	2.7	1.4(.3)				-20102		SVS 842		229	-10	001100000
999	6 40 18	-14 23.7	8	2.3	.5(.2)	-1.6(.4)			-10138		DY CMA		225	-8	001300000
998	6 40 40	57 58.5	31	3.4	1.5(.3)				60175		S LYN		158	22	00?1???00
1001	6 40 52	25 10.1	12	2.0	-.2(.3)	-1.0(.4)			30164	2473	EPS GEM		190	10	000100300
1002	6 41 5	-27 23.5	12	3.9	1.4(.3)								237	-14	001000000
1003	6 41 26	77 2.3	29	1.5	.8(.3)	-.4(.4)			80015		DO 30694		137	26	0+113?100
1004	6 41 36	29 .4	13	1.8	1.5(.3)				30165	2480	28 GEM		186	11	000100100
1007	6 42 48	-16 37.5	9	2.2	-1.2(.4)	-1.4(.3)			-20105	2491	ALF CMA		227	-9	003300000
1008	6 43 27	-36 30.1	13	3.9	1.2(.3)				-30071E		CH PUP		246	-17	001000000
1009	6 44 4	30 18.9	13	1.8	1.1(.4)				30166		X GEM		185	12	000100100
1010	6 44 27	8 6.6	11	2.3	1.4(.3)				10138	2503	17 MON		205	3	000100100
1012	6 44 52	-20 14.8	15	3.7	.8(.3)				-20107				231	-10	00+100000
1014	6 45 6	-8 54.4	15	3.7	.3(.3)				-10139	2508	GC 8891		220	-5	000100000
1017	6 47 4	3 1.4	9	2.3	.8(.3)	-1.3(.3)			131				210	1	000300?00
4064	6 47 17	-66 50.5	20	2.6			-5.0(.4)	-7.0(.6)					277	-25	000000051
1018	6 47 22	11 22.6	16	3.5	1.3(.3)								203	5	000100?00
1020	6 49 1	5 49.5	11	2.3	1.3(.3)		-5.0(.5)						208	3	000100400
1021	6 49 17	61 4.5	14	1.4	.7(.3)	-.6(.4)			60176		DO 30947		155	24	001313100
1022	6 49 21	4 49.1	9	1.8	.2(.3)	-.8(.4)			134		SX MON		209	2	000300100
1023	6 49 23	-33 27.0	13	3.9			-4.1(.4)						243	-15	004000000
1024	6 49 27	20 54.0	18	3.4	1.6(.3)								194	10	000100?00
1026	6 49 49	4 10.6	15	3.5	1.2(.3)								209	2	000100?00
1027	6 50 3	1 2.6	15	3.6	1.7(.3)								212	1	000100?00
1028	6 50 7	8 27.9	11	2.2	-.7(.3)	-2.6(.3)	-4.0(.4)		10143		GX MON,EO		206	4	000?00300
1033	6 51 38	-14 18.4	15	4.1	1.3(.3)								226	-6	001?00000
1034	6 51 44	-11 55.8	10	2.8	.4(.2)				-10140	2574	THE CMA		224	-5	001100000
1035	6 52 8	-24 10.1	14	4.0	.2(.3)				-20112	2580	OMI1 CMA		235	-10	001000000
1036	6 52 27	77 2.6	37	2.0	1.1(.3)				80016	2527	GC 9073		138	27	0+11+1?00
1038	6 53 4	6 24.9	16	3.5	.3(.3)	-1.2(.4)			10144		CL MON		208	4	000300+00
1039	6 53 12	-2 16.1	15	3.0	1.2(.3)								215	-0	000100000
1041	6 53 53	-14 .4	15	4.1	1.5(.3)				-10141	2593	MUU CMA	R	226	-5	001+00000
1042	6 53 53	37 27.1	13	2.0	1.2(.3)				40167		DO 12662		179	17	000110?00
4065	6 54 39	-23 54.3	14	4.0	.4(.3)				-20114		X CMA,EO		235	-10	001000000
1043	6 55 10	3 21.8	9	2.3	1.1(.3)				140		AZ MON		211	3	000100000
1045	6 55 35	6 15.3	9	2.0	.7(.3)		-2.7(.4)		10146		RV MON		208	4	000500100
1044	6 55 36	-8 55.2	15	3.6	1.1(.3)				-10143		V523 MON		222	-3	000100000
1050	6 57 0	55 23.6	13	1.5	1.5(.4)				60179		R LYN		161	23	001117100

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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
1051	6 57 23	16 9.2	12	2.1	1.2(.3)				20163	2615	41 GEM		199	9	000100100
1052	6 58 17	30 35.3	13	2.1	1.6(.3)		-3.8(.4)		30171		RS GEM		186	15	000140?00
1053	6 58 36	-3 11.3	9	2.3	1.0(.3)				141		DO 1886		217	1	000100000
4066	6 58 59	-76 55 2	38	3.8		-1.6(.4)	-2.9(.5)						288	-26	000000060
1055	6 59 20	17 50.6	12	2.1	.3(.3)				20166	2631	NP GEM		198	10	000100100
1056	6 59 36	16 44.3	9	1.8	1.3(.3)				20167	2635	DO 12745		199	10	000100100
1057	6 59 38	-27 52.4	10	2.2	-.7(.3)	-1.4(.4)	-2.4(.5)		-30072	2646	SIG CMA		239	-10	007000000
4067	6 59 50	70 48.4	49	3.4	1.6(.3)				70073	2617	DO 31137		145	27	0??1???00
1058	7 0 3	-4 33.6	15	3.6	1.4(.3)								218	0	000100000
1059	7 1 22	-11 28.7	9	2.2	1.2(.3)	-1.8(.3)	-3.0(.4)				Z CMA		225	-3	007700000
1060	7 2 8	-8 53.1	11	2.7	1.2(.3)	-1.4(.3)			-10147		HN MON		222	-1	003300000
1061	7 2 35	10 38.6	16	3.5	1.5(.3)				10150		SVS 6546		205	8	000100?00
1062	7 2 40	-14 57.1	11	2.7	1.3(.3)	-1.3(.3)							228	-4	003300000
1064	7 3 21	-35 51.4	10	2.1	-1.0(.3)	-1.8(.4)	-3.2(.5)		-3C073E		SVS 965		247	-13	007000000
1065	7 3 29	-25 2.5	14	3.9	.7(.3)				-30073				237	-8	001000000
4068	7 4 0	59 31.2	32	3.1	1.8(.3)							R	157	25	00?1???00
1067	7 4 5	8 58.3	16	3.4	1.2(.3)				10153		V CMI		207	7	000100000
1070	7 4 31	-7 29.5	9	2.2	.2(.3)	-1.2(.4)			-10149		RY MON	R	221	-0	000300000
1071	7 4 57	-32 23.2	18	4.3	<.8(.3)								244	-11	001000000
1072	7 4 57	66 1.5	16	1.2	1.4(.3)	-1.9(.4)			70074				150	26	00++23300
1073	7 5 16	24 10.1	12	1.9	.8(.3)				20172		DC 1280?		193	14	0001+0100
1074	7 5 27	-10 39.3	11	2.7	1.4(.3)	-1.8(.3)	-3.2(.5)		-10151				224	-1	005700000
1075	7 5 43	-11 50.6	9	2.3	.3(.3)	-1.3(.4)			-10152		? CMA		225	-2	003100000
1077	7 6 13	4 12.3	15	3.5	1.6(.3)				146		DO 1964		211	6	000100000
1078	7 6 14	-26 16.0	10	2.2	.3(.3)				-30076	2693	DEL CMA		238	-8	001000000
4069	7 6 30	58 32.7	31	3.1	2.1(.3)								150	25	00?1???00
4070	7 6 33	-72 54.9	30	3.8		-2.3(.4)					R VOL		284	-25	000000020
1080	7 7 57	30 19.2	9	1.4	1.2(.3)				30178	2697	TAU GEM		187	17	000110100
1081	7 8 21	39 24.7	7	1.4	1.2(.3)	-2.0(.3)			40170	2696	63 AUR		178	20	000+30100
1082	7 8 59	-29 .7	14	3.9	.5(.3)				-30078		SVS 983		241	-9	001000000
1083	7 9 23	51 31.3	14	1.4	.6(.3)				5C175	2703	SVS 982		166	24	000110100
1084	7 9 37	68 53.3	21	1.5	1.0(.3)				70075		AA CAM		147	27	0011+1100
1085	7 9 55	-20 13.3	15	4.0	.2(.3)	-2.1(.3)							233	-5	003000000
1086	7 10 28	16 14.9	9	1.8	-.4(.3)	-.9(.3)			20175	2717	BQ GEM		201	12	000300300
1087	7 10 34	-7 52.5	11	2.7	1.3(.3)				-10153		AM MON		222	1	001100000
1091	7 12 48	28 0.0	10	1.6	1.3(.3)				30179	2738	53 GEM		190	17	000110100
1092	7 13 4	5 8.6	16	3.4	1.6(.3)				10158		DO 2053		211	8	000100000
1094	7 14 25	48 36.2	13	1.4	.7(.3)	-.4(.4)			50177		RS LYN		169	24	000310100
1095	7 14 34	-23 15.3	14	3.9	.4(.3)				-20125	2764	SVS 100845		237	-5	001000000
1096	7 14 37	-27 49.4	10	2.3	.0(.3)				-30083	2766	GC 9678		241	-7	001000000
1098	7 15 2	38 9.2	14	2.0	-.2(.3)	-1.2(.3)			40172		DO 12919		180	21	000320+00
1099	7 15 14	-34 44.7	10	2.2	.3(.3)	-2.1(.4)			-30075E				247	-10	003000000
1101	7 16 21	-15 44.9	15	4.0	1.2(.3)								230	-1	001000000
1102	7 16 34	79 52.7	62	1.9		-.5(.4)	-3.4(.4)						134	28	0?+4??600
4071	7 16 52	31 24.1	18	3.1	1.4(.3)				30180		DO 12946		187	19	000?10?00
1103	7 16 56	22 3.1	12	2.2	1.6(.3)				20177	2777	DEL GEM		196	16	000110?00
1104	7 17 56	55 55.0	19	1.6	1.6(.3)				60182		SVS 100850		161	26	00?1?0100
1105	7 18 48	4 44.7	16	3.4	1.9(.3)								212	9	000100000
1106	7 18 53	87 7.3	118	1.2	.7(.3)					2609	SVS 927		126	28	110111100
1108	7 20 13	-20 25.7	15	4.0	.4(.3)				-20129				235	-3	001000000

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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
1110	7 20 37	82 31.0	40	1.2	-.2(.3)	-1.3(.3)				2742	VZ CAM		131	28	011313100
1109	7 20 37	47 15.9	16	1.7	<1.4(.3)				50178		SVS 6578		171	25	0001+0100
1111	7 20 56	-25 41.0	10	2.3	-3.0(.3)	-6.0(.3)	-7.7(.4)		-30087		VY CMA		239	-5	007000000
1112	7 21 25	-27 44.6	15	3.9	1.2(.3)				-30090	2822	GC 9870		241	-6	001000000
1113	7 22 26	-21 25.2	14	3.9	1.3(.3)								236	-3	001000000
1114	7 22 44	27 54.1	10	1.6	1.3(.3)	-.8(.4)			30183	2821	IOT GEM		191	19	000110300
1115	7 22 52	6 10.7	16	3.4	1.6(.3)								211	-10	000100000
1117	7 23 1	33 27.7	10	1.9	1.3(.3)		-2.7(.5)		30184		XX GEM		185	21	000150?00
1118	7 23 12	-5 45.3	9	2.2	1.1(.3)		-3.0(.4)		-10163		TT MON		222	5	005100000
1120	7 24 39	46 5.8	11	1.3	-.8(.3)	-1.6(.4)			50180		Y LYN		172	25	000330300
1122	7 24 53	41 3.9	12	1.4	1.1(.3)				40177		VX AUR		178	24	000110100
1123	7 25 2	48 2.2	13	1.7	1.0(.3)				50181		SVS 100869		170	26	000110?00
1124	7 25 4	-26 18.8	15	3.9	1.3(.3)								240	-5	001000000
4072	7 25 22	-66 44.0	24	3.9		-2.7(.4)							278	-22	00000002?
1127	7 25 29	9 1.5	9	2.3	.5(.3)				10164	2854	GAM CMI		209	12	000100000
1129	7 26 37	-10 15.1	15	3.5	1.3(.3)								226	3	00?100000
1130	7 26 50	28 1.5	12	2.1	1.4(.3)				30186	2861	65 GEM	R	191	20	000110?00
1131	7 26 54	-19 20.8	15	4.0	.7(.3)	-1.2(.3)			-20131				234	-1	003000000
1133	7 27 11	50 7.9	12	1.4	1.3(.3)		-3.9(.6)		50182		SVS 100875		168	27	001110400
1134	7 27 58	51 53.1	18	2.2	1.2(.4)								166	27	001+?0100
1135	7 28 8	-9 38.7	11	2.7	1.7(.4)	-1.6(.3)					U MON		226	4	002100000
1136	7 28 17	20 37.4	9	2.2	.9(.3)	-.1(.4)			20181		DO 13079		198	18	0003+0000
1138	7 30 1	8 26.3	9	2.3	2.0(.4)	-1.6(.3)			10167		S CMI		210	13	000300000
1140	7 30 34	-20 34.7	10	2.3	.5(.3)	-1.8(.3)			-20133		Z PUP		236	-1	003000000
1139	7 30 34	11 8.9	16	3.3	1.5(.3)				10168		DO 2247		208	14	000100000
1141	7 30 45	30 37.8	9	1.5	.8(.3)	-1.9(.4)			30187				189	22	000330300
1143	7 31 12	66 35.8	23	1.6	1.5(.4)				70078		DO 31652		150	29	00?111?00
1144	7 31 22	31 59.0	9	1.5	1.1(.4)				30188	2891	ALF GEM		187	22	000110100
1145	7 31 25	-14 24.0	10	2.5	-.3(.3)		-3.0(.4)		-10169	2902	KQ PUP		231	3	005000000
1148	7 31 59	37 9.8	14	1.9	1.3(.4)								182	24	000110?00
4073	7 32 57	46 18.9	10	1.9	1.3(.3)				50184	2903	DO 31700		172	27	0001?0?00
1150	7 32 58	27 2.3	13	2.4	<.1(.3)	-1.2(.5)			30190	2905	UPS GEM		193	21	000210000
1151	7 33 2	-23 53.5	15	3.9	.9(.3)	-1.8(.3)			-20134		DU PUP		239	-2	003000000
4074	7 34 42	38 22.6	10	2.1	1.5(.3)				40181		DO 13184		181	25	0001?0?00
1159	7 36 42	-8 21.1	16	4.0			-3.9(.4)						226	7	004000000
1160	7 36 46	38 27.9	10	1.4	1.2(.3)		-3.1(.5)		40183	2935	DO 13215	R	181	25	000110500
1161	7 36 48	5 19.8	16	3.4	-.8(.3)				10170	2943	ALF CMI		214	13	000100000
4075	7 37 19	-84 57.1	98	2.1			-3.4(.4)						297	-26	000000040
4076	7 37 34	-8 45.6	16	4.0	-3.4(.3)							EO	226	7	001000000
1162	7 37 38	-21 35.9	15	3.8	1.3(.3)	-.4(.4)						R	238	0	003000000
1163	7 38 9	20 34.0	12	2.2	.9(.3)				20187		Y GEM		199	20	000110000
1164	7 38 30	-23 21.0	15	3.9			-4.8(.4)						239	-0	004000000
1167	7 38 53	13 35.8	11	2.3	1.0(.3)				10172	2965	DO 2303		206	17	000110000
1168	7 39 13	14 18.6	9	2.1	.8(.3)				10173	2967	SVS 1107		206	18	000+10000
1169	7 39 15	-4 3.7	11	2.6	1.3(.3)				161				222	9	001100000
1171	7 39 20	-37 20.7	16	3.8	1.3(.3)		-4.2(.4)						252	-7	005000000
1173	7 40 1	-10 46.9	10	2.5	.9(.3)				-10175		SU MON		229	6	001000000
1174	7 40 7	29 1.1	13	2.1	1.4(.3)				30191	2973	SIG GEM		191	23	000110000
1175	7 40 46	38 58.6	12	1.5	1.4(.3)				40184		DO 13256		181	26	000110100
1176	7 40 59	25 54.2	12	2.1	1.3(.3)				30193	2983	76 GEM		194	22	000110000

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	O '	S '										O	O	
1178	7 41 26	24 29.6	12 2.1		-.1(.3)				20188	2985	KAP GEM		196	22	000110000
1179	7 41 32	-28 17.6	15 3.9		.7(.3)				-30098	2993	1 PUP		244	-2	001000000
1181	7 41 45	-28 50.3	15 3.9		.2(.3)	-2.2(.3)			-30099	2996	3 PUP		244	-3	003000000
1183	7 42 18	28 8.1	10 1.7		-1.4(.2)	-1.4(.3)			30194	2990	BET GEM		192	23	000330000
1184	7 42 20	30 54.4	10 1.9		1.5(.3)	-.8(.3)			30195		AU GEM		189	24	000330000
1186	7 43 2	18 39.8	9 2.0		1.1(.3)	-.2(.5)			20189	3003	81 GEM		202	20	000310000
1187	7 43 15	37 39.6	10 1.5		.8(.3)				40186	2999	DO 13275		182	26	000110100
4077	7 43 33	-58 19.6	23 3.9				-4.6(.6)						271	-16	000000004
1188	7 43 59	-5 28.4	16 3.9				-3.1(.4)						224	10	004?00000
1189	7 44 5	25 31.8	18 2.8		1.3(.3)								195	23	0001?0000
1191	7 44 11	33 31.3	13 2.0		.8(.3)	-1.8(.4)			30196	3013	PI GEM	R	187	26	000120000
1192	7 44 28	-26 10.5	10 2.3		.9(.3)	-1.7(.4)					SS PUP		242	-1	003000000
4078	7 45 37	-71 10.1	12 1.2			-4.0(.4)	-4.2(.4)	-6.6(.7)			NGC 2466		283	-21	000000065
1195	7 47 7	-24 41.8	15 3.8		.9(.3)	-1.2(.4)			-20145	3045	XI PUP		241	1	003000000
4079	7 47 9	57 35.9	29 2.4			-.7(.4)							160	31	00???0?00
1199	7 48 43	-2 32.1	11 2.5		.9(.3)	-.7(.4)			162				222	12	002100000
1200	7 49 28	3 24.5	11 2.4		.6(.3)				163	3061	SVS 6597		217	15	001100000
1204	7 51 51	-26 12.7	16 3.8		.0(.3)				-30103		SVS 6601		243	1	001000000
1209	7 52 57	-36 3.0	16 3.8				-4.2(.4)						252	-4	004000000
4080	7 54 17	-22 19.2	15 3.8		*	-3.3(.3)						EO	240	3	002000000
1215	7 58 27	-12 43.1	16 3.8		1.0(.3)	-.9(.4)			-10184		U PUP		232	9	003000000
1216	7 58 36	-1 14.4	17 3.7		.9(.3)				166	3141	28 MON		222	15	001000000
1218	7 59 31	2 28.3	11 2.4		1.2(.3)				167	3145	GC 10691		219	17	001100000
1220	8 0 21	36 29.2	14 2.0		.0(.2)	-1.0(.4)			40192		SV LYN		185	29	000310000
1221	8 0 46	-5 32.5	16 3.7			-.7(.4)	-3.1(.4)						226	13	006000000
1223	8 1 53	-31 21.7	16 3.7		1.3(.3)				-30114				249	-0	001000000
1224	8 2 10	-32 29.7	16 3.7		.2(.3)				-30115	3170	MZ PUP		250	-1	001000000
1227	8 3 21	22 46.6	12 2.2		1.1(.3)				20195	3169	BL CNC		200	26	000110000
1228	8 3 23	5 43.8	9 2.0		1.6(.3)				10182				216	19	00?110000
1231	8 5 30	-20 31.5	10 2.3		1.1(.3)				-20158		BG PUP		240	6	001000000
1232	8 6 3	65 22.1	16 1.3		.5(.3)	-.7(.4)			70082		RZ UMA		151	33	001130100
1233	8 8 24	19 17.2	17 3.0		1.0(.3)	-.6(.4)			20197		VV CNC		204	26	0003+0000
1235	8 9 2	-32 44.7	16 3.7		.9(.3)		-3.0(.6)						251	0	005000000
4081	8 10 42	-62 36.7	25 3.9			-2.5(.4)							276	-15	000000027
1238	8 11 20	20 29.4	12 2.0		1.5(.3)								203	27	00113?0000
1240	8 11 58	24 53.5	12 2.1		1.0(.3)				20198		RX CNC		198	29	000110000
1241	8 13 44	11 52.7	9 1.8		-1.3(.2)	-2.4(.3)	-3.3(.4)		10185	3248	R CNC		212	24	007720000
4082	8 15 24	72 54.8	25 1.8		1.2(.4)	-1.8(.5)			70083	3236	DO 32187		142	32	02?212+003
1243	8 17 22	2 54.3	11 2.4		9(.3)				172		RY HYA		221	21	001010000
1244	8 18 55	5 5.7	11 2.4		.0(.2)	-.9(.3)			10187		FZ HYA		219	22	003030000
1245	8 19 30	43 20.5	15 1.9		.1(.2)				40195	3275	31 LYN		177	34	0011+0000
1247	8 19 39	15 8.0	8 1.6		.6(.3)	-.8(.4)			20199		Z CNC		209	27	001310000
4083	8 21 17	10 45.6	17 3.2		1.3(.3)				10188	3290	21 CNC		214	25	001?70000
1249	8 21 59	52 27.3	18 1.6		1.2(.3)				50191		DO 32264		166	35	00?110000
1250	8 22 9	-8 22.9	16 3.4		-.3(.3)	-1.8(.3)			-10194		FK HYA		232	16	003000000
1253	8 23 40	-4 45.4	10 2.4		.2(.3)	-1.0(.4)			175			R	229	18	003000000
1254	8 23 43	3 53.0	16 3.2		1.2(.3)								221	23	0010?0000
1255	8 24 1	12 48.4	9 1.8		.6(.3)				10189	3319	BP CNC		212	27	001110000
4084	8 25 41	72 33.2	35 2.8			-.5(.4)	-2.8(.5)						142	33	0?6????002
4085	8 26 39	60 54.4	32 3.4		1.0(.3)				60187	3323	OMI UMA		156	35	001+?0?00

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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
1258	8 27 5	-6 8.1	16	3.4	•	-1.3(.4)			-10196		RT HYA		230	18	002000000
4086	8 27 39	-61 14.1	21	3.9			-5.1(.6)						276	-13	000000004
1260	8 27 44	-21 17.6	16	3.5	1.5(.3)							R	244	10	001000000
1261	8 28 8	9 18.4	15	3.3		-1.5(.3)							216	26	002020000
1262	8 28 40	18 15.9	12	2.0	1.2(.3)				20200	3357	THE CNC		207	30	001120000
1263	8 28 52	-22 36.5	16	3.5		-1.8(.4)							245	10	002000000
1265	8 29 40	67 21.3	23	1.5	1.3(.3)				70085		DO 32354		148	35	001110200
1271	8 34 29	-17 45.5	16	3.5	.9(.3)				-20171		W PYX		242	14	001000000
1273	8 34 40	-8 39.4	16	3.4	1.5(.3)								234	19	001000000
1274	8 35 52	-10 16.7	16	3.4	1.2(.3)	-1.4(.3)							235	18	003000000
1275	8 36 1	11 11.6	16	2.9	1.4(.3)								215	29	001020000
1276	8 36 6	3 29.8	11	2.3	1.2(.3)				176	3418	SIG HYA		223	25	001010000
1278	8 36 23	-3 59.2	16	3.3	1.3(.3)								230	22	001020000
4087	8 36 26	46 9.7	23	2.9	1.4(.3)								174	38	001220000
1280	8 37 17	-9 24.6	9	2.3	.2(.3)				-10199		RV HYA		235	19	001000000
1281	8 37 30	-17 6.6	16	3.5	-.7(.3)	-1.8(.3)			-20173		AK HYA,EO		241	15	003000000
1282	8 38 22	-0 33.5	9	2.1	1.5(.3)				177		DO 2576		227	24	001010000
1283	8 39 6	2 21.7	11	2.4	1.5(.4)	-1.5(.3)							224	25	003020000
1285	8 41 45	18 19.9	9	1.7	1.3(.3)				20205	3461	DEL CNC		208	33	001110000
1287	8 43 35	28 56.9	10	1.5	1.7(.4)				30201	3475	IOT CNC		196	37	001110000
1288	8 43 44	1 49.4	9	1.9	-.3(.2)	-2.0(.3)			179		EY HYA		225	26	003030000
1289	8 44 6	6 35.7	15	3.4	1.2(.3)				10193	3482	EPS HYA		221	29	001010000
1291	8 44 40	78 21.5	36	1.6	.9(.3)				80019		DO 32450		135	33	012111200
4088	8 45 35	70 28.2	26	2.2	1.7(.4)	-2.2(.4)			70086		NGC 2650		144	35	034444003
1292	8 45 53	18 13.2	16	2.5			-3.0(.4)						209	34	004020000
1293	8 46 1	12 42.0	16	2.8	1.3(.3)				10194		DO 2615		215	32	001020000
1295	8 47 40	40 14.0	15	2.0	1.6(.3)								182	39	002110000
1296	8 49 24	28 26.1	10	1.5	1.1(.3)				30202	3521	BO CNC		197	38	001110000
4089	8 50 54	-18 7.7	16	3.3	-.3(.3)								244	17	001000000
1298	8 52 33	17 25.4	12	2.1	-.5(.2)	-.7(.3)			20206	3541	X CNC		210	35	003030000
1299	8 52 40	6 7.8	11	2.2	.6(.3)				10196	3547	ZET HYA	R	222	30	001010000
1300	8 53 31	-19 2.8	16	3.3	1.0(.3)				-20176				245	16	001000000
1301	8 53 40	20 2.3	12	2.1	-.0(.2)	-1.3(.3)			20207		T CNC		207	36	003010000
4090	8 55 8	55 36.2	27	2.1	1.8(.3)								162	40	002120000
1302	8 55 28	11 1.8	9	2.1	-.3(.2)	-1.0(.3)	-3.0(.4)		10199		RT CNC		218	33	007030000
1304	8 57 57	67 50.5	18	1.2	.1(.3)	-.7(.4)			70087	3576	RHO UMA		147	37	002110100
1307	9 0 31	38 57.0	12	1.5	.1(.3)	-.6(.4)			40201		UX LYN		184	42	003110000
1308	9 1 11	60 29.0	16	1.3	1.4(.3)				60190		TT UMA		155	40	001110000
1309	9 1 22	9 4.2	16	2.7	1.4(.3)								220	33	001020000
1310	9 2 18	64 58.5	18	1.5	1.4(.3)				60191		SVS 6677		150	39	001110000
1311	9 2 20	12 53.5	16	3.5		-.8(.4)							216	35	002020000
1314	9 3 4	38 38.7	14	1.7	1.6(.3)				40202	3612	GC 12565		184	42	001120000
1315	9 3 39	-9 43.6	16	3.1	1.3(.3)								239	24	001020000
1316	9 3 48	67 3.8	23	1.5	1.0(.3)				70088	3609	SIG1 UMA		147	38	001110000
1317	9 4 24	1 41.1	11	2.3	1.2(.3)				183	3618	DO 2701		228	31	001010000
1320	9 4 47	69 24.3	24	1.7	1.2(.3)				70089		DO 32697		145	37	021110200
1319	9 4 49	-15 30.8	16	3.2	1.5(.3)								244	21	001000000
1321	9 5 45	13 24.8	9	2.0	-.3(.3)	-1.5(.3)			10203		SVS 6684		216	36	003020000
1325	9 6 51	25 27.0	12	2.0	.3(.3)	-1.1(.3)	-2.9(.5)		30208		W CNC		202	41	001070000
1324	9 7 16	6 39.2	11	2.2	2.4(.4)	-.8(.4)							224	34	003020000

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GL	RA(1950) H M S	DEC(1950) ° ′	EA ″	ED ″	M(4)	M(T1)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	035. LOG
1326	9 7 36	31 10.2	8	1.4	-2.0(.3)	-2.7(.3)	-3.5(.4)		30209	3639	RS CNC		194	42	007?70000
1327	9 7 44	-6 5.0	16	3.1	1.7(.3)								236	27	0010?0000
4091	9 11 3	51 17.6	25	2.3	1.3(.3)								167	43	00?1?0000
1332	9 12 15	56 56.5	14	1.4	1.3(.3)				60192	3660	17 UMA		160	42	001110000
1334	9 12 34	-1 40.5	14	3.5	1.1(.3)								233	30	007010000
1335	9 12 38	-3 46.9	11	2.4	1.3(.3)				185		DO 2727		235	29	001010000
4092	9 16 27	49 58.2	13	1.9	1.6(.3)								169	44	00?1?0000
1341	9 17 59	34 36.5	10	1.5	-.9(.3)	-1.1(.3)	-2.4(.5)		30210	3705	ALF LYN		190	45	007330000
1342	9 18 2	0 22.5	11	2.3	1.1(.3)				186		DO 2743		232	33	001010000
1344	9 18 18	56 55.5	16	1.4	.3(.2)	-.5(.5)			60193	3698	CG UMA		159	43	002110000
1348	9 20 45	7 55.2	11	2.3	1.1(.3)				10205		DO 2756		224	37	001010000
1350	9 21 18	64 8.8	25	1.8	1.6(.4)				60194	3722	GC 12970		150	41	0011?0000
1351	9 21 52	26 22.7	10	1.6	1.2(.3)				30211	3731	SVS 6712		202	44	001010000
4093	9 22 46	-57 26.5	26	3.8		-2.4(.4)							278	-5	000000020
1352	9 23 40	21 .4	17	3.5		-1.0(.4)							209	43	00?020000
1353	9 25 5	-8 28.3	10	2.3	-1.5(.2)	-1.2(.4)			-10217	3748	ALF HYA		242	29	001030000
1354	9 25 37	36 23.3	14	1.8	.9(.3)				40205		RS LMI		188	46	001010000
1355	9 27 51	44 53.2	15	1.7	1.6(.3)				40206		DO 32882		175	47	0011?0000
4094	9 28 21	44 56.1	11	2.3		-.8(.4)			40206		DO 32882		175	47	00???0000
1357	9 28 24	35 19.4	13	1.8	1.0(.3)				40207	3769	8 LMI		189	47	001010000
1358	9 28 50	23 11.7	12	2.1	.2(.3)	-.5(.4)			20211	3773	LAM LEO		207	45	001030000
1360	9 29 46	70 2.7	26	1.9	1.7(.3)				70090	3771	24 UMA	R	143	39	0111?0000
4095	9 30 53	-62 34.7	17	2.7		-2.5(.4)	-3.7(.5)			3816	R CAR		282	-8	00000000E4
1363	9 31 2	81 34.6	44	1.4	.7(.3)	-.8(.4)				3751	DO 32868		131	33	+311+1100
1366	9 33 45	31 23.7	11	1.9	1.2(.3)	-.6(.4)			30213	3820	GC 13265		195	48	003010000
4096	9 35 37	67 31.2	34	2.9	2.3(.4)				70091	3824	DO 32923		145	41	0?1??00001
1369	9 37 29	-0 54.9	10	2.3	.7(.3)	-.9(.4)			190	3845	IOT HYA		237	36	001030000
1371	9 38 54	31 30.7	13	1.9	1.3(.4)				30214	3850	GC 13369		195	49	001010000
1372	9 41 6	14 15.9	11	2.3	1.0(.3)				10211	3866	PSI LEO		220	44	001010000
1376	9 42 27	34 43.9	13	1.8	-1.3(.3)	-2.8(.3)	-3.3(.4)		30215		R LMI,EO		191	50	007070000
1378	9 43 3	57 19.7	16	1.5	.1(.2)	-.6(.4)			60197	3870	SVS 1495		157	46	003100000
1379	9 43 34	6 56.1	15	3.7	.7(.3)				10213	3876	DO 2819		229	42	00+010000
1380	9 44 48	11 39.4	9	2.1	-3.1(.3)	-4.2(.3)	-5.1(.3)		10215	3882	R LEO		224	44	007060000
1381	9 45 10	13 30.7	13	2.7	-3.5(.3)	<-6.1(.3)	<-8.6(.3)		10216		CW LEO,EO		221	45	007070000
1386	9 50 0	26 15.1	10	1.7	.9(.3)	-.8(.3)			30218	3905	MUU LEO		204	50	003030000
1387	9 51 7	6 10.6	11	2.3	1.0(.3)				10218	3915	DO 2848		231	43	001010000
4097	9 51 58	-67 20.0	21	2.6				-7.1(.7)					287	-10	000000011
1388	9 52 10	69 54.7	23	1.4		-.9(.3)	-3.2(.4)				M 82	R	141	41	+?6460000
4098	9 52 14	-75 7.6	59	3.7		-2.2(.4)	-3.0(.5)					R	292	-16	000000060
1389	9 52 40	-18 44.6	14	3.7	.7(.3)				-20201	3923	GC 13644		255	27	000010000
1392	9 53 39	16 56.7	16	2.3	1.6(.3)								218	48	0010?0000
4099	9 56 31	-58 38.8	28	3.7		-1.8(.4)	-3.2(.4)				RR CAR		282	-3	000000060
4100	9 57 35	8 16.5	16	2.6	.5(.3)				10224	3950	PI LEO,EO		230	45	0010+0000
1395	10 1 55	-2 39.7	14	3.8		-1.2(.4)							243	40	000020000
1396	10 2 13	4 50.0	15	3.8	1.9(.5)	-.7(.4)						EO	235	44	000030000
4101	10 4 50	-56 56.4	17	2.3		-2.2(.4)	-5.8(.4)	-7.0(.6)				R	282	-1	000000070
1399	10 5 15	10 15.5	9	1.8	.6(.3)	-.0(.4)			10225	3980	31 LEO	R	229	48	001030000
4102	10 5 39	-53 0.0	24	3.7		-2.4(.4)	-3.3(.4)				CM VEL		280	2	000000060
1403	10 13 1	30 49.5	18	2.0	.3(.3)	-5.1(.3)	-5.4(.4)		30219		RW LMI,EO,R		198	56	007000000
1404	10 13 41	23 37.9	16	3.0	1.9(.3)				20218	4031	ZET LEO		210	55	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
1405	10 14 13	14 .9	17	4.0	.9(.3)				10228	4035	37 LEO	225	52	000010000
1406	10 14 36	-14 24.0	13	3.8	-1.0(.3)	-3.0(.3)	-3.6(.4)		-10236			256	34	C00070000
1410	10 17 15	20 5.3	12	2.2	-.9(.3)	-.9(.3)			20219	4057	GAM1 LEO	217	55	001030000
4103	10 17 54	-57 41.9	28	3.6		-1.4(.4)	-3.0(.5)				EO.R	284	-1	000000060
4104	10 18 12	-57 50.5	18	2.3			-4.1(.4)	-6.5(.6)			R	284	-1	000000050
4105	10 18 32	-60 10.5	30	3.6		-2.0(.4)	-3.6(.5)				EV CAR	285	-3	000000060
1411	10 19 13	41 45.0	14	1.5	-.6(.3)	-1.6(.4)			40218	4069	MUU UMA	178	56	102000000
4106	10 21 32	-59 17.8	18	2.3			-5.8(.4)	-6.8(.6)				285	-2	000000050
4107	10 22 12	-57 31.1	28	3.6		-4.8(.4)	<-8.0(.4)	-9.0(.6)			RCW 49.EO.R	284	-0	000000070
1416	10 23 43	-16 33.1	13	3.8	.1(.3)	-.3(.4)			-20210	4094	MUU HYA	260	34	000030000
1417	10 24 21	5 52.9	15	3.9			-4.7(.4)					238	49	000040000
4108	10 29 5	-57 36.8	28	3.6		-1.8(.4)	-3.0(.5)					285	0	000000060
4109	10 29 35	-57 45.6	28	3.6		-2.5(.4)	-5.4(.4)	-7.0(.6)			R	285	-0	000000070
1419	10 29 36	14 24.7	17	4.0	.6(.3)				10231	4127	46 LEO	228	55	000010000
1423	10 30 36	70 1.4	20	1.3	.9(.3)	-1.1(.3)	-3.3(.5)		70095		SVS 6789	138	43	131+70000
1424	10 30 47	-7 12.9	13	3.9	1.8(.4)	-1.7(.3)						254	42	000030000
1426	10 34 31	-3 47 6	14	3.9			-4.6(.4)					252	45	000040000
1427	10 35 8	-13 6.1	13	3.8	-1.4(.3)	-1.9(.3)	-2.8(.5)		-10242	4163	U HYA	260	38	000070000
1428	10 35 16	-11 46.8	13	3.8	.0(.3)	-1.0(.4)			-10243		FF HYA	259	39	000030000
4110	10 35 22	-58 20.5	29	3.5			-4.5(.4)	-6.5(.6)			DT CAR.EO.R	286	-0	000000050
4111	10 35 55	-58 30.3	29	3.5		-2.1(.4)	-3.9(.4)					286	-0	000000060
4112	10 38 31	-59 9.7	30	3.5		-1.6(.4)	-2.7(.5)				FU CAR.EO	287	-1	000000060
1431	10 39 41	69 21.0	21	1.3	1.3(.3)	-1.2(.5)			70098	4181	GC 14713	138	44	121100000
1432	10 41 12	69 3.9	21	1.5	.7(.3)	-1.3(.3)			70099		R UMA	138	44	+33100000
1433	10 41 45	67 41 8	16	1.0	.1(.3)	-.6(.4)			70100	4195	VY UMA	140	45	311100000
1434	10 42 28	-6 35.2	13	3.9	1.1(.3)	-.5(.5)			-10245			256	44	000030000
4113	10 42 29	-59 50.2	31	3.5			-4.8(.4)				SVS 1643.EO	288	-1	000000040
4114	10 43 7	-59 23.6	30	3.5		<-6.9(.4)	<-8.2(.4)	-10.6(.6)		4210	ETA CAR.EO.R	288	-1	000000070
4115	10 43 16	57 38.7	22	2.4	1.5(.4)				60204	4202	41 UMA	150	53	10+0000001
4116	10 45 14	-59 45.7	31	3.5		-1.6(.4)	-4.0(.4)				EO.R	288	-1	000000060
1437	10 46 11	8 56.8	16	4.1	1.3(.3)	-.5(.5)			10233		VV LEO	240	56	000030000
1438	10 47 7	-15 54.9	9	2.2	-.0(.3)	-2.1(.3)	-3.0(.4)		-20217	4232	NUU HYA	265	38	000070000
4117	10 48 3	59 36.2	25	2.8	1.5(.4)				60205	4236	42 UMA	147	52	1??0000001
1439	10 49 11	-21 0.0	9	2.1	.5(.3)	-3.6(.3)	-4.0(.4)		-20218		V HYA	269	34	000070000
1440	10 50 27	34 29.8	19	2.3	.9(.3)				30226	4247	46 LMI	190	64	100000000
1441	10 50 59	14 .1	13	3.4	1.0(.3)	-.9(.4)			10234		W LEO	233	59	000030000
1442	10 51 12	77 19.8	35	1.5	1.7(.3)				80021		DO 33481	131	38	1101??C00
1443	10 52 1	72 8.7	29	1.8	1.3(.3)	-.2(.4)			70102		VX UMA	135	42	3?0110000
1446	10 53 18	6 25.5	11	2.6	-1.1(.3)	-1.4(.4)			10235	4267	56 LEO	245	55	000030000
1448	10 53 48	74 35.6	34	1.6	.5(.3)				70103		DO 33498	133	41 1101+0000
4118	10 53 50	-60 9.6	31	3.4		-1.7(.4)	-3.7(.5)				GG CAR	289	-1	000000060
4119	10 54 14	-59 50.3	31	3.4		-1.0(.5)	-4.1(.4)				R	289	-0	000000060
1449	10 55 53	70 16.9	32	2.2	1.2(.3)				70104		VW UMA	136	44	+10100000
4120	10 56 46	-60 55.5	32	3.4			-3.8(.4)	-6.5(.6)			EO.R	290	-1	000000057
1450	10 58 6	-18 3.4	12	3.9	-1.7(.3)	-2.9(.3)	-3.9(.4)		-20222		R CRT	269	37	000070000
4121	10 58 39	-59 33.5	31	3.4		-1.9(.4)						289	0	000000020
4122	10 58 50	-60 33.6	32	3.4		-2.2(.4)	-3.6(.5)				R	290	-1	000000060
1452	10 59 20	-2 11.4	14	4.0	.6(.3)				200	4299	61 LEO	257	50	000010000
1453	10 59 26	46 36.1	22	2.0	1.4(.3)							164	61	100000000
1454	11 0 29	62 0.0	16	1.9	-1.0(.3)	-1.0(.3)			60208	4301	ALF UMA	143	51	3+000C000

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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
1455	11 1 3	-2 56.8	10	2.4	.7(.3)				201		SX LEO		258	50	000010000
4123	11 3 59	-41 53.0	21	3.5		-2.6(.4)						R	283	17	000000020
1457	11 4 50	49 27.4	23	1.8	1.1(.3)				50208		SVS 1704		158	60	100000000
1458	11 4 53	-11 11.7	12	4.0		-.8(.4)							266	44	000020000
1460	11 6 30	44 46.8	21	2.0	.1(.3)				40224	4335	PSI UMA		166	63	100000000
1461	11 6 38	31 26.2	16	2.5	1.1(.3)								197	67	100000000
1462	11 6 40	36 34.1	19	2.3	.3(.3)	-.4(.4)			40222	4333	GC 15334		184	67	300000000
1463	11 6 46	43 29.4	10	1.9	1.1(.3)				40223	4336	DO 33591		168	64	100000000
4124	11 9 39	-61 2.5	18	2.0		-3.7(.5)	-7.5(.4)	-8.8(.6)			NGC 3581	R	291	-1	000000077
4125	11 10 32	-60 34.9	32	3.3			-4.2(.4)					R	291	-0	00000004?
1473	11 12 28	23 22.2	17	2.8	-.2(.3)				20227	4362	72 LEO		218	68	100000000
1474	11 12 39	75 23.7	24	1.5	.3(.3)	-1.4(.3)			80023		SVS 6827		131	41	330330000
4126	11 12 48	-60 58.2	18	1.9		-4.6(.6)	<-8.2(.4)	-9.6(.6)			NGC 3603	R	292	-1	000000077
4127	11 14 27	-61 12.6	33	3.3		-1.1(.4)	-3.5(.4)					R	292	-1	00000006?
4128	11 15 16	-65 34.7	38	3.2		-2.1(.4)	-2.7(.5)						294	-5	00000006?
4129	11 15 17	-21 54.0	11	3.9	.2(.3)				-20225		RX CRT,EO		276	36	000010000
1475	11 15 46	33 22.0	19	2.4	.2(.3)				30230	4377	NUU UMA		191	69	100000000
1476	11 16 26	-30 10.0	12	3.9	1.1(.3)				-30174				280	28	000010000
1477	11 16 46	-14 32.8	12	3.9	.6(.3)				-10253	4382	DEL CRT		272	42	000010000
4130	11 19 4	-55 30.5	16	2.3		-1.9(.4)	-2.7(.5)				SVS 1731		290	5	000000060
1479	11 19 57	43 44.6	10	1.8	1.6(.3)				40225	4392	56 UMA		165	66	100000000
1481	11 20 29	24 24.3	17	2.7		-1.1(.3)	-2.7(.5)					EO	217	70	600000000
1482	11 21 27	-19 36.5	8	2.1	.6(.3)	-1.7(.3)			-20227		T CRT		276	38	000030000
4131	11 22 6	48 53.0	18	2.5	1.5(.4)				50210		DO 33683		155	63	1000000001
1483	11 22 6	-10 36.0	12	4.0	.6(.3)				-10254	4402	EPS CRT		271	47	000010000
1484	11 22 27	16 29.8	17	3.0	1.4(.3)								237	67	100000000
1486	11 23 2	-12 14.1	12	4.0	-.8(.3)								272	45	000010000
1487	11 23 20	9 30.5	9	2.1		-.3(.5)	-3.8(.4)				IC 2811		250	63	600000000
1488	11 25 10	15 25.1	9	2.2	.9(.3)	-.5(.5)			20229		AF LEO		240	67	300000000
1489	11 25 16	45 28.5	18	3.0	.1(.3)				50211		ST UMA		160	65	1000000001
4132	11 26 7	-62 41.8	13	1.5		-1.9(.5)	-3.3(.4)				IC 2872	R	294	-2	000000066
1492	11 27 46	-2 43.7	9	2.3	1.0(.3)				206	4432	HFE 56		267	54	000010000
1493	11 27 57	-22 21.1	11	3.9	*	-2.8(.4)							280	37	000020000
1494	11 28 25	69 35.0	32	2.1	-.2(.2)				70107	4434	LAM DRA		133	46	110000000
1495	11 29 13	-12 5.3	9	2.1	.9(.3)	-.9(.4)			-10256		RR CRT		274	46	000030000
1497	11 30 19	-30 50.9	11	3.8	.9(.3)				-30177	4449	GC 15844		284	29	000010000
4133	11 32 26	-72 57.4	30	2.2		-3.0(.4)	-3.4(.5)						297	-11	000000060
1498	11 32 28	19 27.2	17	2.8	1.7(.3)								233	71	100000000
1499	11 32 57	35 9.6	9	1.9	-.5(.3)	-1.6(.3)			40226		DO 14449		163	72	300000000
1500	11 34 11	77 51.1	54	2.2	1.7(.3)				80024		DO 33752		128	39	110???000
1502	11 35 55	8 25.3	16	3.2	-.2(.3)				10243	4483	OME VIR		257	64	100000000
4134	11 36 20	-63 10.0	21	2.5		-1.4(.4)	-3.4(.5)	-6.1(.6)			IC 2948,EO,R		295	-2	000000074
1503	11 37 17	-16 20.4	11	3.9	1.0(.3)				-20230	4491	GC 16008		279	43	000010000
4135	11 41 0	-62 11.0	19	1.9		-1.5(.4)	-4.2(.5)					R	295	-1	000000064
1508	11 43 5	36 11.7	19	2.1	.5(.3)				40227		TV UMA		177	74	100000000
1509	11 43 12	6 48.9	16	3.2	-.1(.3)				10245	4517	NUU VIR		263	64	100000000
1510	11 43 22	48 4.1	22	2.2	.9(.3)				50213	4518	CHI UMA		150	66	100000000
1511	11 44 31	43 45.5	9	1.9	.4(.3)	-1.3(.4)	-2.8(.4)		40228		AZ UMA		157	69	700000000
4136	11 46 8	-35 43.2	11	2.3		-2.1(.4)	-3.1(.5)		-30163E				289	25	000000060
1512	11 46 19	-26 25.6	10	3.8	-.6(.3)				-30182	4532	II HYA		286	34	000010000

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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
4137	11 46 49	-41 29.5	12	2.3		-1.8(.4)			-40081E		X CEN		291	20	000000?020
1514	11 46 50	3 46.8	9	2.3	1.7(.3)								268	62	100?70000
1515	11 47 23	-27 17.6	10	3.8	.9(.3)				-30183				287	33	000010000
1516	11 48 35	-10 56.2	8	2.1	-.4(.3)	-.8(.4)			-10258		RU CRT		280	49	000030000
1517	11 51 45	86 30.1	138	1.9		-.7(.4)					SVS 101227		124	31	220???200
4138	11 51 48	37 24.5	15	2.5	2.0(.4)				40229		DO 14499		170	74	1000000001
4139	11 52 35	37 3.3	15	2.6	1.2(.3)	♣	-3.0(.5)		40230	4562	DO 14500		170	75	5000000001
1519	11 53 31	58 7.0	17	1.9	1.2(.3)	-.9(.3)			60213		Z UMA		137	58	320000000
4140	11 53 52	-39 8.2	20	3.3			-4.4(.4)						291	22	000000040
1521	11 54 17	64 5.6	36	2.8	1.5(.3)								133	52	170000000
1523	11 56 20	53 .6	18	2.1		-1.2(.4)							140	63	220000000
4141	11 56 47	33 28.3	14	2.2	1.5(.3)						LHE316		181	77	1000000001
1526	11 57 38	81 7.5	49	1.9	1.3(.3)					4586	DO 33898		125	36	?101?1000
1527	11 57 39	19 43.6	17	2.8	1.0(.3)				20236		DO 14510		243	76	100000000
4142	12 1 5	-34 11.4	11	2.3		-1.9(.4)							292	27	000000020
1532	12 1 56	42 58.4	20	2.1	1.4(.3)								151	72	100000000
4143	12 3 18	-51 41.0	26	3.1		-2.1(.4)							296	10	000000020
1535	12 4 43	-6 29.0	7	2.3	.1(.3)	-1.3(.3)			-10263		RW VIR		284	54	300020000
4144	12 6 22	-63 .5	22	2.4		-.9(.5)	-3.8(.4)					R	298	-1	000000064
4145	12 6 32	29 26.8	14	2.6	2.0(.4)						NGC 4134		198	80	1000000001
4146	12 7 14	-62 32.0	20	1.8		-3.0(.4)	-6.5(.4)	-7.8(.6)				R	298	-0	000000077
1536	12 7 28	-22 20.0	10	2.5	-.2(.3)		-3.7(.4)		-20233	4630	EPS CRV		291	39	000050040
4147	12 9 4	26 9.3	13	2.2	1.6(.4)				30235	4640	4 COM		219	81	1000000001
1539	12 9 55	45 44.1	22	2.3	1.2(.3)								143	70	1?0000000
1542	12 12 30	19 18.9	17	3.0	1.4(.3)								255	78	100000000
4148	12 12 40	-62 43.7	22	2.4		-3.1(.4)	-6.0(.4)	-7.3(.6)				EO,R	299	-0	000060075
1543	12 13 35	40 58.6	20	2.1	.9(.3)	.0(.4)			40232	4666	2 CVN		149	75	3+0000000
4149	12 14 59	-67 41.9	42	2.7		-2.2(.4)				4671	EPS MUS		300	-5	00000002?
1545	12 17 18	49 17.1	17	2.0	.9(.3)	-.8(.4)			50217	4690	3 CVN		136	67	310000000
1547	12 20 41	-11 34.1	6	2.2	1.2(.3)				-10268		GC 16886		292	50	100010000
1549	12 22 38	1 1.4	10	2.6	-.1(.3)	-.9(.3)			217		SS VIR		288	63	300020000
1550	12 22 50	57 3.3	17	1.9	1.1(.3)				60217	4726	71 UMA		130	60	110000000
1551	12 24 33	28 33.2	9	2.3	1.3(.3)				30238	4737	GAM COM		200	84	100000000
1552	12 25 26	55 58.4	16	1.8	1.3(.3)				60218	4745	73 UMA		130	61	110000000
1554	12 27 48	4 42.8	9	2.3	-1.4(.3)	-2.2(.3)	-2.8(.4)		220		BK VIR		290	67	700000000
1555	12 28 13	69 28.5	32	2.2	.1(.3)				70113	4765	CQ DRA		126	48	110000000
4150	12 28 16	-56 51.5	14	2.2		-3.4(.4)	-3.5(.5)			4763	GAM CRU		300	6	000000066
4151	12 30 2	-57 55.1	30	2.8		-1.6(.4)	-2.8(.5)						300	5	00000006?
4152	12 31 33	-61 21.0	21	2.4		-2.3(.5)	-4.5(.4)	-6.5(.6)			RCW 65	R	301	1	000000076
1558	12 31 47	-23 4.0	8	3.7	.5(.3)				-20240	4786	BET CRV		298	39	000010000
4153	12 32 3	8 27.6	13	3.6			-2.6(.5)				NGC 4535		290	71	4000000004
4154	12 32 42	-61 34.2	22	2.4		-1.6(.4)	-3.4(.5)				RCW 66	R	301	1	000000064
4155	12 32 49	8 22.7	12	2.8			-3.2(.4)						291	71	4000000004
4156	12 32 51	6 18.6	13	3.2		-.5(.4)					NGC 4543		292	69	2000000002
1564	12 34 26	27 21.1	18	2.7	.5(.3)	-1.0(.4)			30241		DO 14615		213	87	300000000
1565	12 34 28	-17 15.8	9	2.6	1.2(.3)	-.8(.3)			-20242		T CRV		295	45	3000200?0
1566	12 35 46	2 6.2	9	2.3	.6(.3)	-1.2(.4)			221	4807	SVS 101306		295	65	1000300003
4157	12 36 0	7 16.3	12	2.7	1.2(.3)				10256	4808	R VIR		294	70	1000000001
1570	12 37 57	56 6.2	20	2.1	-1.2(.3)	-2.0(.3)			60220		Y UMA		126	61	320000000
1571	12 39 6	-1 11.0	8	2.2	1.6(.4)				223	4825	GAM VIR		298	61	1000100001

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) D '	EA S	ED '	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II O	B II O	OBS. LOG
1575	12 42 41	-6 14.9	15	3.6		-1.4(.4)							300	56	2000?0?00
1576	12 42 48	45 43.2	13	2.0	-1 4(.2)	-2.1(.3)			50219	4846	Y CVN		126	72	3300?0000
1579	12 44 41	4 23.8	16	3.6	2(.3)	-1.7(.3)			224		RU VIR		300	67	3000?0000
1581	12 47 7	-14 50.2	9	2.6	.5(.3)				-10272		SVS 6963		302	48	1000?0?00
1583	12 51 39	-9 15.8	9	2.6	-.0(.2)	-1.1(.3)			-10274	4902	PSI VIR		304	53	3000?0?00
1584	12 51 53	56 12.8	21	2.3	1.0(.3)		-2.4(.5)		60222	4905	EPS UMA		122	61	5100?0000
1585	12 52 39	47 27.5	17	2.1	-.3(.2)				50222	4909	TU CVN		121	70	1100?0000
4158	12 52 51	-52 43.3	26	2.8		-1.8(.4)							304	10	0000?0020
1586	12 52 54	3 38.6	10	2.5	-1.5(.3)	-1.5(.3)			226	4910	DEL VIR		305	66	3000?0000
4159	12 53 15	-68 46.6	42	2.3		-1.9(.4)	-2.7(.5)						303	-6	0000?0050
1588	12 54 17	66 16.7	28	2.2	-.6(.3)	-1.0(.3)			70116		RY DRA		122	51	3300?0000
1589	12 56 12	17 40.4	17	3.3	.7(.3)				20251	4920	36 COM		313	80	1000?0000
1593	12 59 47	11 14.5	17	3.6	.8(.3)				10261	4932	EPS VIR		312	74	1000?0000
1594	12 59 56	5 25.9	10	2.7	-1.6(.3)	-2.5(.3)	-3.6(.4)		10262		RT VIR		310	68	7000?0?00
1596	13 1 1	6 34.8	17	3.8		-2.2(.3)							311	69	2000?0000
1597	13 1 21	7 19.5	17	3.7	.9(.3)				10264		CO VIR		312	70	1000?0000
4160	13 1 27	11 29.8	17	3.6	.9(.3)				10265		DO 3313.EO		314	74	1000?0000
4161	13 5 32	-61 58.9	17	2.2		-1.9(.4)	-3.7(.5)						305	1	0000?0024
4162	13 8 25	-48 31.4	13	2.2			-3.0(.4)						306	14	0000?0040
4163	13 8 31	-62 18.4	22	2.2		-3.1(.4)	-6.3(.4)	-7.6(.6)				EO.R	305	0	0000?0077
1602	13 8 48	-10 14.3	8	2.1	1.2(.3)				-10280				311	52	1000?0?00
1604	13 10 18	-1 32.2	10	3.8	.8(.3)	-1.2(.3)			229		DO 3322		314	61	+0003?0?0
4154	13 11 2	-60 51.6	21	2.2		-1.3(.5)	-3.3(.5)					R	306	2	0000?0064
4165	13 11 6	-62 28.8	22	2.2		-2.1(.4)	-5.2(.4)	-6.5(.6)				EO.R	306	0	0000?0075
1606	13 11 31	-2 32.2	8	2.1	-2.4(.2)	-3.3(.3)	-4.3(.4)		230		SW VIR		314	60	7000?0060
1608	13 11 55	11 34.8	15	2.8	1.4(.3)				10267	4998	GC 17933		323	73	1000?0?00
1610	13 13 40	6 43.4	17	3.8	.7(.3)				10268		FH VIR		320	69	1000?0000
1611	13 15 4	5 44.7	17	3.8	.2(.3)				10270	5015	SIG VIR		320	67	1000?0000
1612	13 15 21	55 54.0	20	2.3	1.6(.3)								115	61	1100?0000
1614	13 16 11	-22 54.5	6	2.2	.8(.3)				-20249	5020	GAM HYA		311	39	1000?0000
1615	13 17 3	45 46 5	23	3.0	.2(.3)	-.9(.4)	•		50226		V CVN		108	71	0300?0000
4166	13 19 53	-11 24.2	9	2.5	2.0(.4)		-4.0(.4)	-6.6(.6)					315	50	+0001?050
1617	13 19 57	-3 31.9	7	2.3	1.4(.3)	-.4(.4)			233		DO 3350		318	58	1000?0?0
1618	13 20 40	47 13.7	23	3.0	.7(.3)		•		50227		DO 34360		108	69	0100?0?00
1620	13 21 42	37 17.6	11	2.1	1.4(.3)				40245	5052	DO 14749		90	78	0100?0?0
1622	13 22 32	-10 53.6	8	2.1	1.3(.3)				-10286	5056	ALF VIR		316	51	1000?0000
4167	13 23 20	-40 18.8	21	2.9			-3.2(.4)						310	22	0000?0040
4168	13 24 15	-37 14.7	20	3.0		-2.1(.4)	-3.4(.4)						311	25	0000?0060
4169	13 25 15	-36 44.7	20	3.0		-2.1(.4)							311	25	0000?0020
1624	13 25 31	40 7.6	20	2.9	1.1(.3)		•						95	75	0100?0000
1625	13 26 12	55 24.2	27	3.5	1.7(.4)	-1.0(.4)						R	112	61	3?0000000
4170	13 26 12	-36 15.8	20	3.0		-2.0(.4)							311	26	0000?0020
1627	13 27 2	-23 2.1	7	1.5	-3.2(.2)	-4.2(.3)	-4.8(.4)		-20254	5080	R HYA		314	39	7000?0060
4171	13 27 44	-38 0.0	20	3.0			-3.0(.4)						311	24	0000?0040
4172	13 29 18	-62 32.2	19	1.5		-2.6(.5)	-4.4(.4)	-6.3(.6)				R	308	-0	0000?0076
1631	13 29 24	-5 59.4	15	3.9	-.1(.3)				-10288	5095	74 VIR		321	55	1000+0000
1633	13 30 18	-6 56.7	8	2.2	-.2(.2)	-1.1(.3)	-3.2(.5)		-10290	5101	S VIR		321	54	3000?0040
1634	13 30 47	-26 19.5	8	2.7		-1.5(.3)							314	35	2000?0?0
4173	13 32 51	-4 8.4	11	2.6	1.8(.4)	-2.1(.4)			235		DO 3372		323	57	1000?0020
1637	13 33 20	76 46.0	44	2.2	1.3(.3)				80025	5131	GC 18390		120	40	1100??000

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
4174	13 36 31	-61 28.6	22	2.1		-1.8(.4)	-5.2(.5)	-6.9(.7)			RCW 79.EO.R		309	1	000000075
4175	13 36 52	-49 41.6	13	2 2		-2.1(.5)	-2.8(.5)			5134	V744 CEN		311	12	000000062
1642	13 38 21	54 54.2	27	2.5	.3(.3)				50231	5154	83 UMA		108	61	010000000
1643	13 38 58	-8 27.9	15	4.0	.6(.3)				-10293	5150	82 VIR		323	52	100010020
4176	13 39 41	-61 52.7	22	2.1		-1.7(.4)	-4.3(.4)						309	0	000000064
4177	13 43 59	-62 22.1	1C	1.1		-3.1(.4)	-4.7(.4)	-6.8(.7)			RCW 80		309	-0	000000057
4178	13 44 8	-61 8.1	21	2.0		-2.3(.4)	-3.8(.4)						310	1	000000056
1648	13 44 42	-17 35.4	7	2.2	.6(.3)				-20258	5181	87 VIR		321	43	100010000
4179	13 45 10	-31 15.3	11	2.5		-1.4(.3)							317	30	+00020020
4180	13 45 49	-62 33.4	16	1.8		-.2(.7)	-3.3(.4)	-6.2(.6)					309	-1	000000074
1650	13 46 9	-28 7.3	8	1.9	<-3.9(.2)	-5.4(.3)	-5.9(.4)		-30207		W HYA	R	318	33	700070060
4181	13 46 31	-34 11.3	19	3.0		-2.0(.4)		-6.1(.6)	-30192E	5192	2 CEN		316	27	000000030
1651	13 46 47	16 .3	16	3.4	.3(.3)				20263	5200	UPS 800		356	72	010000000
1652	13 46 53	39 47.6	12	2.3	-.1(.3)	-.6(.5)			40248	5199	R CVN		83	73	030000000
4182	13 47 3	-61 21.5	12	1.5		-2.0(.4)	-4.1(.4)	-6.4(.6)					310	0	000000075
4183	13 47 36	-65 31.8	36	2.0		-2.2(.4)	-2.9(.4)						309	-4	000000060
1653	13 49 13	-3 25.3	8	2.2	.4(.3)	-.3(.4)	-2.6(.5)		237		AY VIR		331	56	100010040
1654	13 49 32	34 40.7	11	2.3	-.1(.3)		•		30251	5219	SVS 7088		66	75	010000000
1656	13 49 56	64 58.9	25	2.3	-.3(.2)				60226	5226	10 DRA		113	51	110000000
1658	13 51 20	52 33.7	26	2.5	1.0(.3)		•		50234		DO 34497		102	62	010000000
1659	13 51 48	16 25.6	16	3.4		-1.9(.4)									
4184	13 52 31	5 46.6	15	3.5			-4.5(.4)					R	359	72	020000000
1660	13 52 32	-26 12.0	7	2.2	.8(.3)		-3.4(.4)		-30208				341	64	000000040
1661	13 54 2	27 42.3	17	3.1	1.1(.3)				30252	5247	SVS 7090		320	34	500010070
1663	13 54 46	-30 50.5	8	2.7	.9(.3)	-.9(.4)			-30210		TW CEN		38	76	010000000
4185	13 55 29	-61 7.5	14	1.5		-2.1(.5)	-3.2(.4)	-6.7(.7)			RCW 82	R	319	30	300010070
1669	13 57 31	37 27.0	11	2.2	1.3(.3)		•		40251		RW CVN		311	0	000000067
4186	13 57 46	-59 30.8	20	2.1		-1.4(.4)	-3.4(.5)						72	72	010000000
1673	13 59 33	-27 9.0	14	4.0	1.2(.3)	-1.0(.4)			-30212	5265	GC 18954		312	2	000000064
4187	13 59 53	-76 32.8	68	2.7		-2.9(.4)	-4.0(.4)			5261	THE APS		322	33	3000+0070
4188	14 0 35	-61 5.3	15	1.8		-1.0(.5)	-3.6(.4)						307	-15	000000060
4189	14 2 25	-62 7.0	32	2.3		-1.3(.4)	-3.2(.5)					R	312	0	000000064
1676	14 3 30	-26 28.3	14	4.0	.6(.3)				-30213	5287	GC 19022		311	-1	000000050
4190	14 3 57	-61 12.5	31	2.3		-.8(.5)	-3.7(.4)	-6.2(.6)			PI HYA		323	33	1000+0200
1677	14 3 58	-13 58.4	9	2.8	1.1(.3)				-10297			EO.R	312	0	000000070
1680	14 5 57	44 5.6	22	2.7	-.6(.3)	-1.0(.4)	•		40253	5299	ER VIR		329	45	100010000
1684	14 8 11	-16 4.8	9	2.8	.4(.3)				-20265	5301	BY 800		85	67	030000000
1685	14 8 36	-28 37.6	8	2.7	1.0(.3)				-30215		ET VIR		329	42	100010000
1686	14 8 38	-7 33.9	9	2.9		-1.5(.3)	-3.1(.4)				RU HYA		323	31	100010000
1687	14 8 40	77 48.0	35	1.8	1 2(.3)				80026	5321	4 UMI		335	50	0000000+0
1688	14 10 13	-10 2.7	7	1.6	.6(.3)				-10300	5315	KAP VIR		118	39	110010000
1689	14 10 30	-13 36.1	9	2.8	1.2(.3)				-10301		EV VIR		334	48	100010000
1690	14 11 16	69 39.1	22	2.3	1.1(.3)				70123	5334	DO 34594		331	44	100010000
4191	14 13 2	-59 41.2	30	2.3		-2.7(.4)	-3.8(.4)			5326	R CEN		113	46	110000000
1692	14 13 9	19 44.7	9	2.2	.9(.3)		•						313	1	000000060
1693	14 13 20	19 25.5	7	1.6	-3.1(.3)	-3.3(.3)	-3.5(.4)		20270	5340	ALF 800		16	69	010000000
4192	14 13 54	-13 52.8	17	3.5			-3.1(.4)						15	69	030000060
1694	14 14 8	-16 10.6	8	2.2	.2(.2)	-.5(.4)	-2.4(.5)		-20266		EW VIR		332	44	2000?0040
1696	14 15 58	67 1.4	23	1.6	.3(.3)	-1.4(.4)			70124		U UMI		331	42	300030040
1697	14 16 29	-14 9.2	8	2.3	1.4(.4)	-.8(.4)			-10305				110	48	310000000
													333	43	300010070

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
1698	14 16 31	-13 9.5	10	2.3	.7(.3)		-2.3(.5)		-10304				333	44	5000+0070
1700	14 16 49	3 1.0	14	4.1		-.9(.4)							348	58	0?00?00?0
4193	14 17 0	-36 38.5	20	3.0		-1.6(.4)			-30203E		GC 19313		322	23	000006020
4194	14 19 50	29 34.1	18	3.2	.4(.3)		•		30254		SVS 7128,EO		45	70	010000000
4195	14 20 57	-60 10.9	31	2.4			-3.6(.4)					EO,R	314	0	000000040
1706	14 21 46	25 54.6	10	2.3	-2.3(.3)	-3.5(.3)	-4.4(.4)		30257		RX BOO		34	69	070000000
1710	14 24 42	4 53.7	9	2.2	.4(.3)	-1.3(.4)			243		RS VIR		353	58	030030020
4196	14 25 44	-68 43.2	44	2.9			-3.7(.4)						312	-8	000000040
1711	14 26 2	-6 37.5	9	2.9	1.3(.3)				-10306	5410	106 VIR		341	49	100010000
1713	14 26 33	38 9.6	20	2.8	1.3(.3)		•						67	67	010000060
1714	14 27 27	75 54.3	28	1.9	.7(.3)		-2.9(.6)		80028	5430	5 UMI		115	40	110015000
1715	14 28 4	-29 52.2	8	1.8	-.8(.2)	-2.0(.4)	-3.4(.4)		-30222		Y CEN		327	28	100070020
1716	14 29 40	30 34.6	10	2.2	.4(.3)		•		30259	5429	RHO BOO		47	68	010000000
4197	14 36 35	-60 36.8	16	2.3		-2.7(.4)	-2.1(.8)			5459	ALF CEN		316	-1	000000050
1719	14 37 10	32 44.4	11	2.2	-.4(.3)	-1.2(.4)	•		30261		RV BOO		52	66	030000030
1720	14 39 13	31 47.3	19	3.0	.0(.3)		•		30262		RW BOO		50	66	010000000
4198	14 40 55	55 1.3	26	1.7	.8(.3)		•		60229		DO 34736,EO		94	56	010000000
1724	14 41 2	26 43.3	18	3.2	-.1(.3)		•		30263	5490	34 BOO		38	65	010000000
4199	14 41 31	-59 36.7	31	2.7		-3.3(.4)	-6.3(.4)	-7.8(.6)				EO,R	317	-0	000000070
4200	14 42 32	-59 10.5	16	2.3		-1.6(.4)	-4.3(.4)						317	0	000000060
1726	14 42 48	56 19.9	26	1.6	1.5(.3)		•		60230		UV DRA		96	55	010000000
4201	14 42 55	27 16.9	18	3.2	-.2(.3)		•		30264	5506	EPS BOO,EO		39	65	010000000
1728	14 43 54	15 19.5	11	2.6	-.8(.3)	-1.5(.3)			20275	5512	DO 15069		15	61	030000020
1732	14 45 31	-36 27.2	9	2.0	-.7(.3)				-30211E	5514	V768 CEN		328	21	100000000
1734	14 46 52	-7 55.5	12	4.1	1.4(.3)								346	45	100070000
1735	14 47 7	12 54.7	16	3.6	.2(.3)								11	59	010000000
1736	14 47 20	-27 43.8	11	3.9	.6(.3)				-30226	5526	58 HYA		333	28	1000+0000
4202	14 48 2	-61 52.0	34	2.9		-3.0(.4)	-3.6(.5)						317	-2	000000060
1740	14 51 7	74 22.5	24	1.7	-1.5(.3)	-1.5(.3)	-2.9(.5)		70125	5563	BET UMI		113	40	330037000
4203	14 51 44	-72 37.7	55	3.4		-1.8(.4)							312	-12	000000020
4204	14 51 54	-58 48.6	16	2.4			-3.7(.4)	-6.7(.6)					318	0	000000050
1743	14 54 59	-12 15.9	8	2.2	.9(.3)	-1.2(.3)			-10308		GC 20124		345	40	100070020
4205	14 56 15	-54 6.3	27	2.8			-3.8(.4)						321	4	000000040
1744	14 56 41	66 8.8	17	2.2	-1.4(.2)	-1.7(.3)			70126	5589	RR UMI		105	47	330000000
1745	14 57 2	4 45.2	10	2.7	1.3(.3)				256	5584	DO 3614		2	52	010010000
1746	14 58 0	-34 16.8	9	1.9	1.3(.3)				-30214E		AP CEN		331	21	100000000
4206	14 58 39	-59 27.0	32	3.1		-1.9(.4)	-2.5(.5)						319	-1	000070060
4207	14 59 2	-58 25.7	31	3.0			-4.4(.4)					R	319	-0	000000040
1748	14 59 36	40 33.9	20	2.3	1.1(.3)				40263	5602	BET BOO		68	60	010000000
4208	14 59 48	-58 50.2	31	3.1		-1.3(.5)	-3.9(.5)					R	319	-0	000000050
1750	15 1 9	-25 3.3	8	1.8	-1.5(.2)	-2.1(.3)	-2.8(.5)		-30228	5603	SIG LIB		337	29	300030060
4209	15 1 33	-57 19.1	16	2.7		-2.4(.4)	-4.3(.4)				RCW 87	R	320	1	000000060
4210	15 7 22	-57 31.9	17	2.7			-3.9(.4)					R	321	0	000000040
4211	15 8 18	-48 8.8	9	1.3		-3.9(.5)	-4.2(.6)						326	8	000000006
1754	15 9 46	19 9.1	16	3.4	.2(.3)		•		20277	5654	FL SER		26	57	010000000
4212	15 9 48	-55 11.4	28	3.1		-2.0(.4)	-3.9(.4)						322	2	000000060
1756	15 12 20	-2 16.3	10	2.7	.6(.3)				262		DO 3770		358	45	010010000
4213	15 12 22	-58 1.8	17	2.7		-2.0(.4)	-4.3(.4)	-6.1(.6)			RCW 91	R	321	-1	000000070
1760	15 15 47	15 56.3	16	3.5	1.2(.3)		•						22	54	010070000
1761	15 16 39	-9 .3	7	2.2	.7(.3)				-10317		GC 20588		353	39	110010000

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
1763	15 18 37	-36 3.4	9	3.7	.2(.3)				-30218E	5705	PHI1 LUP		334	17	100000000
1764	15 18 55	-32 4.5	8	3.7	0(.3)				-30234		GC 20653		336	21	100000000
1765	15 19 11	14 28.2	10	2.2	0(.3)	-1.2(.3)			10290		S SER		20	53	0300300?0
4214	15 20 56	16 32.2	15	3.8			-3.2(.4)						24	53	0?00?0040
1766	15 21 21	-33 46.3	8	3.7		-1.9(.4)							336	19	200000007
1767	15 21 22	-22 42.2	8	2.7	-.9(.3)	-1.8(.3)			-20286		RS LIB		343	28	300020070
1769	15 22 17	-2 4.4	8	2.2	-.1(.3)	-1.3(.4)	-3.1(.5)		265		DO 3724		1	43	030030060
1771	15 22 36	-36 4.3	10	2.5	.8(.3)	-2.7(.4)	-3.5(.4)		-30220E		SVS 2332		335	17	700020006
1772	15 23 21	15 36.0	9	2.2	.9(.3)	-1.2(.5)			20280	5739	TAU1 SER		23	52	010010020
1773	15 25 27	19 43.6	10	2.3	.6(.3)	-1.4(.3)	-2.6(.6)		20281		WX SER	R	29	53	0200700?0
4215	15 26 16	17 34.0	15	3.9			-3.1(.4)						26	53	0000?0040
4216	15 27 59	-62 8.5	36	3.7		-3.9(.4)							320	-5	000000020
1776	15 29 18	-23 43.0	6	2.1	.2(.2)				-20288		GC 20870		344	26	100010000
1777	15 29 55	3 50.7	11	2.7	1.2(.3)				268		WW SER	R	9	45	010010000
1780	15 30 55	78 48.2	33	1.7	-.5(.3)	-1.6(.4)	-2.7(.6)		80030		S UMI		114	36	370033000
1753	15 32 52	77 31.5	29	1.7	1.0(.3)		-4.3(.4)		80031	5826	THE UMI		113	36	150011000
1787	15 33 55	-28 1.2	8	3.6	.1(.3)				-30239	5794	UPS LIB		342	22	100000000
1789	15 34 4	21 48.2	18	3.8	1.8(.3)								34	52	000010000
1788	15 34 6	15 16.1	7	1.7	-1.4(.2)	-1.9(.3)	-2.8(.4)		20282		TAU4 SER		24	50	030070060
4217	15 35 5	-15 12.6	11	2.7	1.5(.4)	-1.9(.3)	-3.3(.5)				SVS 2390		352	31	?300+0040
1790	15 35 55	24 42.1	18	3.7	-.9(.3)				20283		DO 15290		39	53	000?10000
1792	15 39 1	-19 30.9	8	2.1	.7(.3)				-20292	5838	KAP LIB		349	28	100010000
4218	15 40 21	-37 .6	8	3.7	.3(.3)				-30231E		FQ LUP.ED		337	14	100000000
1793	15 41 4	-1 33.0	9	2.3	-.2(.2)	-1.5(.4)			269		BG SER		5	40	030010070
1794	15 41 54	6 33.2	15	3.9	-.0(.3)	-.1(.4)			10294	5854	ALF SER		14	44	0+0030070
1796	15 45 54	-20 14.2	8	2.6	1.4(.3)				-20295				350	26	100010000
1799	15 46 35	18 17.3	9	2.1	-.2(.2)	-.8(.4)			20284	5879	KAP SER		30	48	030030020
4219	15 46 38	28 17.9	12	2.6		-1.0(.4)					R CRB		45	51	000020020
1801	15 48 16	15 17.5	7	1.7	-.2(.2)	-1.6(.4)			20285	5894	R SER		26	47	030030020
1803	15 48 57	21 8.8	18	3.8	.5(.3)				20286	5899	RHO SER		34	49	000010000
1804	15 49 44	-25 57.6	8	1.8	1.4(.3)				-30246		SVS 7235		346	21	100000000
1805	15 51 0	-16 32.6	6	1.9	1.3(.3)	-2.1(.3)			-20296	5908	THE LIB		354	28	13001000?
1806	15 51 47	-10 43.0	7	2.2	1.6(.4)				-10326		EU LIB		359	32	110010000
1807	15 51 55	-37 11.5	8	1.8	2.2(.5)	-2.3(.4)							339	12	300000000
1809	15 52 37	-3 48.7	10	2.7	1.6(.4)				274				5	36	010010000
1811	15 52 50	-18 38.9	7	2.2	1.6(.4)				-20299				352	26	110010000
4220	15 53 32	-18 8.8	9	1.9	1.5(.3)				-20300		RR LIB		353	26	1?00?0000
1814	15 54 11	-15 53.9	7	2.2	1.4(.3)				-20301		GC 21411		355	28	110010000
1816	15 55 36	27 1.5	19	3.6	9(.3)	-.1(.4)			30280	5947	EPS CRB		44	49	0000300?0
1818	15 57 35	-12 12.3	9	2.7	1.2(.3)	-.9(.4)			-10329		FS LIB		358	30	3+0020070
1821	16 2 55	-21 38.1	10	3.8	.6(.3)				-20306		Z SCO		352	22	100000000
1822	16 2 59	-30 40.5	6	1.2		-1.8(.4)	-3.4(.5)						345	16	200000004
1823	16 5 3	-26 10.5	10	3.8	.8(.3)				-30253	6001	GC 21673		349	19	100000000
1826	16 6 4	-1 25.5	9	2.2	.9(.3)	-1.4(.3)			277		DX SER		10	35	0300100?0
1825	16 6 5	8 39.4	9	2.2	.3(.3)		-2.5(.5)		10302	6010	47 SER.ED		21	40	010010040
1828	16 7 13	-3 18.6	10	2.7	1.4(.3)				279	6016	GC 21738		8	33	010010000
1830	16 7 27	-27 40.5	10	3.8	1.1(.3)	-.5(.4)							348	17	300000007
4221	16 8 6	-1 56.1	10	2.8		-1.7(.3)	-4.6(.5)						10	34	0600+0060
1832	16 8 9	25 12.2	12	2.7	-.7(.3)	-1.7(.3)			30283		RU HER		42	46	000030020
1834	16 9 29	23 37.7	18	3.5	-.3(.3)	-.3(.4)			20294	6039	10 HER		40	45	0000300?0

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	'									°	°	
1835	16 10 59	-11 45.3	9	2.8	1.6(.3)	-.6(.4)			-10334	6048	CHI SCO		1	27	3100+000?
1837	16 11 46	-3 33 5	8	2.0	-1.5(.2)	-1.8(.3)			280	6056	DEL OPH		9	32	0300.0020
1838	16 15 46	-4 35.2	10	2.7	9(.3)				282	6075	EPS OPH		9	31	010010000
1841	16 16 8	59 52.6	31	2.7	-.3(.3)	-.7(.4)			60241	6086	AT DRA		9*	42	0000000000
1843	16 17 7	-14 31.2	7	1.9	1.5(.3)		-3.6(.6)		-10336				0	24	110010004
1844	16 17 40	-24 2.9	3	2.0	1.0(.3)				-20311	6081	OMI SCO		352	18	100000000
1845	16 18 9	-25 28.2	6	1.1			-3.8(.4)		-30260	6084	SIG SCO	R	351	17	400000004
1847	16 18 41	-7 34.4	9	2.7	1.0(.3)				-10337		W OPH		6	28	1+0010000
1850	16 19 53	-25 31.3	11	3.9			-2.9(.4)						352	17	400000003
1851	16 20 15	-7 8.5	9	2.8	1.2(.3)				-10338				7	28	110010000
1852	16 20 24	30 59.4	19	3.4	1.6(.3)				30287	6103	XI CRB		51	44	000010000
1853	16 20 45	33 53.6	20	3.3	1.0(.3)				30288	6107	NU1 CRB		55	44	000010000
1854	16 20 52	-22 14.3	7	2.2	.6(.3)				-20315				354	19	110000000
1855	16 22 23	-24 17.9	4	.9		-2.0(.4)	-3.7(.4)	-6.5(.6)			IC 4603		353	17	600010007
4222	16 23 14	-24 29.9	10	1.9		-2.8(.5)	-3.2(.6)						353	17	200010005
1856	16 23 16	-33 42.9	11	3.8		-2.3(.4)							346	11	200010000
1857	16 23 28	-1 19.4	14	3.6	1.9(.3)								13	31	070010000
1858	16 23 30	19 0.0	11	2.7	-1.3(.3)	-2.8(.3)	-3.4(.4)		20298	6119	U HER		35	40	000070060
4223	16 23 42	61 38.4	33	2.7	.4(.3)				60242	6132	ETA DRA.EO		93	41	+00010000
4224	16 23 44	-24 17.8	9	2.0		-1.3(.4)	-3.4(.5)	-7.0(.7)					353	17	200000005
1859	16 23 58	-12 18.4	8	2.2	.9(.3)				-10339		V OPH		3	25	110010000
1861	16 24 59	-7 30.7	6	1.6	.2(.3)	-2.6(.6)	-3.5(.4)		-10340	6128	SVS 2706		7	27	110070006
1862	16 26 2	34 54.2	9	2.3	.9(.3)	-1.4(.3)	-2.9(.5)		30292				56	44	000070020
4225	16 26 8	-82 9.5	107	4.1			-3.1(.4)						310	-23	000000040
1863	16 26 20	-26 19.4	15	4.1	<-3.6(.3)	-4.8(.3)	-4.9(.4)		-30265	6134	ALF SCO		352	15	700010000
1864	16 26 59	41 59.2	21	2.9	-2.4(.3)	-2.8(.3)			40283	6146	30 HER.EO		66	44	000030000
4226	16 30 11	-2 20.2	16	4.3			-3.1(.4)	-6.2(.6)					13	29	070070050
1868	16 30 15	72 23.0	28	2.0	-.4(.3)	-1.4(.3)			70135		R UMI		105	36	300030000
1869	16 30 48	-16 2.8	8	2.2	.6(.3)	-1.1(.4)	-3.0(.4)		-20319		T OPH		1	21	530000003
4227	16 32 48	-8 19.7	14	3.6	1.9(.3)							R	8	25	??0010000
4228	16 33 8	-35 8.5	12	3.9	.9(.3)				-30254E	6166	SVS 101597.EO		346	8	100000000
1870	16 33 22	-31 6.6	11	3.9	.3(.3)				-30266		ST SCO		349	11	100000000
1872	16 34 22	60 33.8	31	2.5	1.1(.3)	-.7(.4)			60243		TX DRA		91	40	000030000
1873	16 35 42	22 30.8	17	3.5	.7(.3)				20303		DO 15566		41	39	000010000
1874	16 36 2	-8 31.3	11	2.9	<1.1(.3)	-.7(.3)			-10344		GC 22375		8	24	370010003
1875	16 36 15	-21 48.7	9	2.8	1.1(.3)				-20321				357	16	110000000
1876	16 36 47	-20 47.5	7	2.3	1.0(.3)	-.8(.3)			-20322				358	17	330000000
1878	16 37 27	-32 19.7	12	3.9	.5(.3)				-30268		SU SCO		349	9	100000000
1879	16 37 38	49 1.1	23	2.5	.3(.3)				50253	6200	42 HER		76	42	000010000
1880	16 38 18	-19 50.9	9	2.6	8(.3)				-20324				359	17	110000000
1883	16 38 45	-27 1.3	10	2.1	.4(.3)				-30269		AX SCO		353	13	100000000
1885	16 41 3	39 1.2	11	2.3	1.1(.3)				40287	6220	ETA HER		62	41	000010000
1886	16 42 6	54 59.3	25	2.1	-.5(.3)	-1.7(.3)			50255		S DRA.EO		63	40	000030000
1887	16 42 30	-3 .9	10	2.7	.2(.3)	-.7(.4)			291		DO 4132	R	14	26	010020003
1888	16 43 0	15 50.6	10	2.7	.8(.3)			-5.5(.9)	20306	6227	SVS 101605		34	35	000010010
1889	16 43 2	12 16.5	16	3.5	1.2(.3)				10310		UV HER		30	33	000010000
1890	16 43 53	-11 34.9	8	2.4	.2(.3)	-1.0(.4)			-10347		V446 OPH		7	21	310000003
1891	16 45 48	42 19.2	11	2.2	.0(.3)				40289	6242	V636 HER		67	40	000010000
1893	16 46 1	-36 11.3	13	3.9	.2(.3)								347	5	100000000
1894	16 46 16	-19 27.0	12	4.0	1.3(.3)				-20333		RR OPH		0	16	100000000

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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
1895	16 46 36	-21 45.0	9	2.8	.9(.3)				-20334		GC 22629	359	14	110000000
1898	16 47 20	57 54.2	27	2.2	.0(.3)				60248		AH DRA	87	39	000010000
1899	16 47 30	63 2.1	18	2.3	1.0(.4)	-1.9(.4)	-3.5(.5)				NGC 6247	93	32	4000?7000
1900	16 47 49	11 4.7	16	3.5	•	-2.6(.4)					DO 4159	29	32	0600?00+0
1902	16 49 4	-12 20.5	9	2.3	1.4(.3)		•					7	20	?100000000
1905	16 49 24	15 2.3	10	2.7	.5(.3)	-1.4(.5)			20307		S HER	34	33	000010020
1904	16 49 26	-12 49.3	9	2.8	1.1(.3)	-1.0(.4)			-10348			7	19	310000007
1906	16 51 29	6 36.4	15	3.4			-3.2(.4)					25	29	0000400?0
1908	16 52 8	-21 52.5	7	1.5	.2(.2)	-1.3(.3)			-20336		SY OPH	359	13	330000000
1909	16 53 12	-32 45.6	13	3.9		-1.4(.4)	-3.5(.4)		-30272		EO	351	6	600000000
1910	16 53 30	-30 30.7	12	3.9	-.6(.3)	-1.4(.4)			-30271		RR SCO	353	8	300000000
1911	16 54 7	-10 23.0	14	4.2	1.2(.3)				-10352			9	20	1+0000000
1914	16 55 25	9 27.0	10	2.7	.3(.3)	-1.1(.5)			10315	6299	KAP OPH	28	29	000010020
1916	16 56 55	-24 58.4	9	2.8	1.1(.3)				-30274	6308	GC 22898	358	11	110000000
1917	16 57 16	-10 51.7	14	4.1	1.2(.3)							9	19	1?000?0000
4229	16 59 37	2 44.7	10	2.9		-1.2(.4)	-3.2(.4)					22	25	0600+0047
1920	17 0 8	-20 27.9	10	2.2	1.4(.3)	-1.4(.3)			-20341			2	13	3+0000000
1922	17 4 53	-24 39.0	9	2.8	.3(.3)	-3.5(.3)	-4.4(.4)					359	9	730000000
1923	17 4 54	-16 1.2	9	2.8	.4(.3)	-1.1(.4)			-20347		R OPH	6	14	310000000
1927	17 7 57	-32 13.4	13	3.9	•	-3.3(.3)	-3.9(.4)		-30282		AH SCO	353	4	600000000
1929	17 8 26	40 46.0	21	2.9	1(.3)				40292		DO 15828	65	36	000010000
1930	17 8 28	64 24.4	20	1.8	3(.3)	-.9(.3)			60249		TV DRA	94	35	100003000
1932	17 10 5	10 39.7	9	2.2	.7(.3)		-2.4(.5)		10320	6393	37 OPH	31	27	000050070
1933	17 10 10	-14 47.7	9	2.8	1.3(.3)	-1.0(.4)			-10358			8	14	130000000
1934	17 10 13	-10 29.0	9	2.8	-.2(.3)	-1.5(.3)			-10359			12	16	330000000
4230	17 10 49	-75 32.1	52	4.1			-2.9(.4)					317	-21	000000040
1935	17 10 58	-0 3.6	15	3.4	2.1(.3)							21	22	?00010000
1937	17 11 38	-33 21.4	14	3.9	.8(.3)	-1.7(.4)	-3.4(.4)		-30291E		RW SCO.EO	353	3	700000000
1938	17 11 49	14 8.4	15	3.3	.2(.3)							35	28	000010000
1940	17 11 54	8 58.1	8	1.8	-.2(.3)	-2.6(.3)	-3.9(.4)		10322			30	26	000070064
1941	17 11 58	-0 42.1	9	2.3	1.1(.3)		-4.1(.4)		297			21	21	10005000+
1942	17 12 0	57 56.1	20	1.8	1.2(.3)				60250		TT DRA	86	36	000011000
1943	17 12 1	-30 27.7	13	3.9	.6(.3)	-1.6(.4)			-30287			355	5	300000000
1944	17 12 18	11 8.4	9	2.2	.2(.3)	-1.6(.3)			10323		V438 OPH	32	26	0000300+0
1945	17 12 21	-21 22.2	7	2.3	1.2(.3)	-.6(.4)			-20350		V1699 OPH	3	10	310000000
1947	17 12 22	14 26.8	9	2.0	<-3.7(.3)	-4.0(.3)	-4.4(.3)		10324	6406	ALF1 HER	36	28	000070060
1948	17 12 46	36 25.3	20	2.9	1.0(.3)	-.6(.4)			40293		UW HER	60	34	000030070
1950	17 13 17	36 51.7	11	2.2	-.3(.3)	-1.0(.4)			40295	6418	PI HER	61	34	000030070
1951	17 13 20	-15 7.8	10	2.4	1.4(.3)				-20351		GC 23306	8	13	120000000
1954	17 16 14	-19 32.8	9	2.8	1.6(.3)	-1.0(.4)	-3.0(.4)				V1847 OPH	5	10	710000000
1955	17 17 16	2 11.8	15	3.4	-.4(.3)				301		DO 4268	24	21	000010000
1956	17 17 51	18 8.7	16	3.2	.5(.3)				20320	6452	SVS 3123	40	28	000010000
1958	17 19 20	16 47.0	9	2.2	1.1(.3)				20321	6463	DO 15937	39	27	000010000
1959	17 19 22	-13 5.8	9	2.8	1.3(.3)				-10366		AB SER	11	13	110000000
1960	17 20 29	0 56.3	9	2.7	1.4(.3)	-.4(.4)			302		DO 4277	23	20	3100+0007
1961	17 20 43	-29 15.9	10	2.2	1.1(.3)	-1.3(.4)			-30293		V522 OPH	357	4	300000000
1963	17 22 0	-24 38.2	14	4.0			-3.6(.4)					1	6	420000000
1964	17 22 31	-26 49.6	7	2.2	1.3(.3)				-30294		R	359	5	110000000
1965	17 22 55	-3 .5	10	2.9	1.2(.3)				303		AH OPH	20	18	110000000
1968	17 23 24	71 54.8	28	1.8	.7(.3)				70139		DO 35751	103	33	100011000

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
1967	17 23 31	16 58.5	16	3.3	.2(.3)				20323	6495	V640 HER		39	26	000010000
1969	17 24 0	4 11.5	15	3.4	.7(.3)				304	6498	SIG OPH		27	21	000010000
1970	17 26 35	-7 26.5	9	2.8	-.6(.2)	-1.6(.3)			-10369				16	14	330000060
1971	17 26 41	-19 26.5	9	2.8	-.3(.2)	-.9(.4)			-20364		TW OPH		6	8	330000000
1972	17 26 52	-26 25.1	9	2.7	.9(.3)	-1.5(.4)			-30300				0	4	130000000
1974	17 27 23	-26 41.1	9	2.7	1.2(.3)				-30301				0	4	110000000
4231	17 28 14	4 49.9	10	2.7				-6.6(.6)					28	20	000000011
1976	17 28 45	26 9.0	17	3.2	1.1(.3)				30307	6526	LAM HER		49	29	000010000
1977	17 29 38	17 49.2	10	2.5	-.7(.3)	-2.7(.4)	-3.3(.4)		20326		DO 16032		41	25	000070060
1981	17 30 41	0 9.6	9	2.7	1.5(.3)				305		DO 4306		24	17	1100?0000
1983	17 31 16	-1 55.4	9	2.3	1.1(.3)		-2.3(.9)		307		DO 4308	R	22	16	150000007
1985	17 31 46	-23 42.9	9	2.8	.9(.3)	-1.3(.4)			-20370				3	5	310060000
1987	17 33 13	53 59.0	14	2.2	1.1(.3)	-.6(.4)	-2.4(.6)		50267		SY DRA		82	33	00007+000
1988	17 33 19	15 35.8	8	2.1	.6(.3)	-1.9(.5)	-3.0(.4)		20328		MW HER		39	24	000030062
1989	17 33 22	17 39.9	16	3.2	1.7(.3)								41	24	000010000
4232	17 33 46	36 .2	11	1.8		-1.2(.4)	-3.2(.4)						61	30	000020060
1991	17 35 16	-20 48.0	7	2.3	1.5(.3)				-20374		SVS 3315		6	6	110000000
1992	17 36 5	-30 13.3	10	2.2	.3(.3)	-2.5(.3)							358	0	300000000
1993	17 36 12	57 46.0	15	1.7	.5(.3)	-1.0(.3)	-3.0(.5)		60251		TY DRA		86	32	300051000
1995	17 37 34	-2 9.5	8	2.4	.7(.3)				313	6578	DO 4452		23	15	110000000
1996	17 38 50	-20 48 6	10	3.8	.9(.3)	-1.4(.3)	*		-20378				0	5	+30000000
1997	17 39 25	-30 3.9	15	3.9	.8(.3)	-2.4(.3)	-4.1(.4)		-30316				359	-0	700000000
1998	17 39 56	-4 51.2	9	2.8	1.1(.3)				315		GC 24016		20	13	110000000
1999	17 40 5	62 36.3	24	2.3	1.3(.3)				60252		DO 35875		92	32	100017000
2000	17 41 3	4 34.5	16	3.9	-.1(.3)				317	6603	BET OPH		29	17	1000+0000
2002	17 42 11	-29 16.2	9	2.7	1.0(.3)	-1.9(.4)	-3.9(.4)				RCW 137.EO		0	-0	630000000
2003	17 42 32	-28 56.0	9	2.7	.7(.3)	-4.0(.3)	-6.1(.7)		-30321		HFE 34.EO.R		0	-0	770000000
2004	17 43 0	-28 50.8	9	2.7	1.0(.3)						SHARP. 17.EO.R		0	-0	110000000
2006	17 43 50	-28 32.6	9	2.7	1.1(.3)	-2.1(.3)	-4.7(.3)				V747 SGR.EO.R		0	-0	670000000
2008	17 45 6	-3 37.6	9	2.8	.7(.3)				320		DO 4412		22	12	110000000
4233	17 45 34	-77 51.6	51	3.9		-2.6(.4)	-3.4(.5)	-6.3(.7)					316	-24	000000070
2009	17 45 50	-28 48.3	9	2.7		-1.0(.4)	-3.4(.4)					EO	0	-1	640000000
2010	17 46 9	-29 .2	10	2.2		-1.3(.4)	-3.7(.5)				SHARP. 19	R	0	-1	6+0000000
2011	17 46 13	-28 42.2	7	2.2		-1.6(.3)	-4.2(.4)				SHARP. 20		1	-1	260000000
2012	17 46 16	-9 8.7	7	2.3	1.3(.3)				-10380				17	9	110000000
2013	17 46 48	-29 1.5	9	2.7	1.2(.3)	-.9(.4)			-30325		V758 SGR		0	-1	130000000
2014	17 47 9	45 43.3	13	2.3	.9(.3)			-6.3(.7)	50272		V337 HER		72	30	000017010
2015	17 47 29	-27 51.2	9	2.7	2.0(.3)	-1.7(.4)	-3.0(.4)						1	-0	570000000
2016	17 48 24	-8 .2	9	2.8	.4(.2)	-2.3(.3)	-3.2(.4)		-10381				19	10	730000000
2017	17 48 54	-28 .3	9	2.7	.6(.3)	-2.2(.3)			-30326		KW SGR		2	-1	330000000
2018	17 49 4	-2 27.1	9	2.7	1.6(.3)	-.3(.4)	-2.9(.4)		324		DO 4449		24	12	710000000
2019	17 50 10	-26 56.9	9	2.7	.4(.3)	-2.2(.3)					HFE 39		3	-0	330000000
2020	17 50 23	-2 32.5	7	2.3	-.2(.3)	-.6(.4)	-2.4(.6)		327		V533 OPH		24	12	710000000
2023	17 51 15	-25 47.3	7	2.2	1.2(.3)	-2.1(.3)	-3.3(.4)						4	-0	720000000
2024	17 51 21	-23 14.0	8	2.1	.7(.3)	-2.1(.3)	-3.1(.4)		-20397		V774 SGR		6	1	770000000
2025	17 51 53	28 12.2	17	3.1	1.8(.3)						EO HER		54	24	000010000
2026	17 53 0	56 52.7	15	1.7	1.0(.3)		-3.1(.4)		60253	6688	XI DRA		85	30	100051000
2027	17 53 11	57 5.8	21	2.2	1.4(.3)	-.2(.4)			60254		88 DRA		85	30	100037000
2028	17 53 29	26 2.5	10	2.1	1.1(.3)	-1.3(.4)				6685	89 HER		51	23	000030070
2032	17 53 50	11 34.7	11	2.4	1.3(.3)	-.5(.5)			10339		DO 4488		37	17	10002007?

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
2033	17 53 53	10 38.8	15	3.3	.5(.3)				10340		DO 4490	36	17	+00010000
2034	17 54 1	-23 54.1	8	2.1	1.6(.3)				-20405		GC 24397	6	0	110000000
2036	17 54 6	-19 19.7	7	2.2	1.1(.3)	-.6(.4)			-20403		VV SGR	10	3	330000000
2037	17 54 17	11 11.7	10	2.6	.5(.3)	-1.6(.4)			10342		HT OPH	37	17	1000+002?
2038	17 54 47	37 13.3	20	3.1	.9(.3)				40306	6695	THE HER	63	26	000010000
2039	17 55 16	51 29.6	15	1.7	-1.6(.3)	-1.8(.3)			50274	6705	GAM DRA	79	29	300033000
2041	17 55 30	45 23.9	9	1.7	-.2(.2)	-1.4(.4)			50273	6702	OP HER	72	28	000033020
2040	17 55 31	58 13.1	13	1.6	-.4(.3)	-2.2(.3)	-2.7(.5)		60255		T DRA	87	30	300073000
2042	17 56 19	-9 46.8	9	2.7	.8(.3)				-10387	6698	NUU OPH	18	7	110000000
2046	17 57 23	-24 5.1	6	2.2	1.4(.3)	-2.6(.3)	-5.4(.4)		-20411		HFE 41+42.EO	6	-0	730000000
2047	17 58 11	-17 44.0	9	2.7	1.4(.3)	-.4(.4)						11	3	130000000
2048	17 58 58	-23 35.5	7	2.2	-.5(.2)	-2.6(.3)	-3.0(.4)		-20417		V1946 SGR R	6	-0	770000000
2050	17 59 14	-23 2.7	9	2.7		-1.7(.4)	-3.6(.4)				M 20.EO.R	7	-0	620000000
2051	17 59 55	-21 46.5	6	2.2		-1.3(.3)	-4.0(.4)				R	8	0	620000000
2052	18 0 38	-24 20.7	9	2.7		-3.3(.3)	-6.3(.4)				M 8.EO.R	6	-1	620000000
2053	18 0 53	-24 5.0	9	2.7	1.2(.3)	-1.4(.4)						6	-1	210000000
2054	18 0 58	-20 19.0	8	2.1	-.0(.3)	-3.0(.3)	-3.8(.4)		-20424			10	1	770000000
2056	18 1 8	19 33.8	9	2.1	1.2(.3)				20346		DO 16410	46	19	000010000
2057	18 1 21	8 26.6	17	3.7		-1.3(.4)						35	14	20000000?
2059	18 1 48	-24 29.8	9	2.7	1.4(.3)	-1.4(.4)	-3.3(.4)				V1807 SGR	6	-1	720000000
2061	18 1 53	-28 6.7	9	3.8	.6(.3)	-1.5(.4)			-30350		V1804 SGR	3	-3	+30000000
2062	18 2 36	-21 13.4	8	2.1	1.4(.4)	-1.6(.3)	-3.3(.4)		-20427			9	-0	730000000
2063	18 2 54	-20 49.1	7	1.9	1.2(.3)	-1.0(.4)	•					9	0	?30000000
4234	18 3 32	5 30.9	11	3.8			-3.5(.4)					33	13	?00000040
2064	18 3 54	22 12.2	9	2.5	-.0(.3)	-.7(.4)	-2.4(.5)		20348	6705	98 HER	49	20	000030047
2055	18 3 58	-8 14.3	9	2.7	.5(.3)	-1.2(.3)			-10395			20	6	330000000
2066	18 4 1	-4 54.2	7	2.3	1.4(.3)		-3.1(.4)		337			23	8	510000000
2067	18 4 4	-9 41.8	8	2.1	.2(.2)	-2.1(.3)			-10396			19	5	330000000
2068	18 4 26	62 37.2	20	1.6	1.1(.3)				60256		DO 36063	92	29	100011000
2069	18 4 28	-29 25.2	9	3.8	1.1(.3)	-1.5(.4)			-30358			2	-4	030000000
2070	18 4 45	6 33.4	10	2.7	1.1(.3)	-.9(.4)	-3.9(.6)		10349		DO 4593	34	13	300000040
2071	18 5 0	-22 15.6	9	2.7	-1.9(.2)	-4.9(.3)	-5.8(.4)		-20431		VX SGR.EO	8	-1	730000000
2072	18 5 23	43 27.3	12	1.8	.8(.3)				40308		DO 36062	71	26	000011000
2074	18 6 1	-18 13.2	9	2.7		-1.1(.3)					SHARP. 38	12	1	220000000
4235	18 6 2	-20 6.2	8	2.6		-1.9(.3)	-5.1(.4)				R	10	-0	620000000
2075	18 6 7	5 17.6	10	2.5	1.0(.3)				10351		AV OPH	33	12	100000000
2076	18 6 11	-27 40.8	8	1.8	.3(.3)	-1.8(.3)	•		-30364			4	-4	030000000
2077	18 6 19	42 13.8	16	2.3	.5(.3)	<-.9(.3)			40312		V529 HER	69	26	000033070
2079	18 6 24	-23 6.3	15	3.8	.9(.3)				-20437			8	-2	1+0000000
2078	18 6 24	-20 20.1	8	2.6		-3.3(.3)	-6.2(.6)				HFE 49.EO.R	10	-0	660000000
2082	18 7 22	-26 52.0	9	2.7	1.2(.3)				-30365		V1280 SGR	5	-4	110000000
2084	18 7 37	-7 18.5	9	2.1	1.4(.3)				-10402			22	6	110000000
2083	18 7 38	-10 33.5	9	2.7	1.2(.3)	-1.2(.3)	-3.0(.4)		-10401			19	4	370000000
2085	18 7 52	-20 24.5	8	2.6	1.1(.3)	-1.1(.3)						10	-1	330000000
2086	18 8 23	-26 29.0	9	3.7	.9(.3)	-2.6(.3)	•				EO	5	-4	+30000000
2087	18 9 6	-18 53.6	8	2.6	.9(.3)	-.9(.4)			-20444			12	-0	130000000
2088	18 9 10	-4 35.8	15	3.7		-1.9(.3)	-2.5(.4)					24	7	600000000
2089	18 9 52	31 24.3	10	2.4	.0(.3)	-.8(.5)	-3.3(.5)		30328	6815	104 HER	58	22	000030060
2090	18 11 16	-17 56.7	15	3.7		-2.2(.3)	-5.4(.4)				HFE 50.EO	13	-0	620000000
2092	18 11 17	-21 43.1	8	2.6	1.4(.3)	-1.5(.3)	-3.2(.4)		-20451	6816	14 SGR	9	-2	170000000

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	O '	S	'									O	O	
2094	18 11 47	-16 49.2	9	2.7		-1.4(.3)	-3.9(.4)					R	14	0	620000000
2096	18 12 0	-22 47.8	9	2.6	1.8(.4)	-1.6(.3)							9	-3	320000000
2097	18 12 33	15 34.9	12	2.3	.8(.3)	-.7(.4)			20354		DO 16595		43	15	3000?0??
2098	18 12 43	30 10.6	10	2.4	.8(.3)	-1.1(.5)			30330		DO 16598		57	21	00001C020
2101	18 13 25	-16 51.7	16	3.8		-1.8(.3)	-3.5(.4)						14	-0	6+0000000
2102	18 13 28	-17 40.6	9	2.6	.8(.3)	-1.7(.3)	-3.2(.4)		-20455				13	-1	730000000
2103	18 13 30	-16 42.2	7	2.2	.2(.3)	-2.4(.3)	-3.7(.4)		-20454		SHARP. 44		14	-0	730000000
2104	18 13 41	-19 0.0	8	2.6	1.0(.3)	-1.4(.3)	-3.2(.4)						12	-1	730000000
2105	18 13 43	-16 12.0	15	3.8		-.5(.5)	-4.3(.4)					R	15	0	6+0000000
2106	18 13 48	2 18.4	16	3.7	.7(.3)				343	6834	DO 4686		31	9	100000000
2107	18 13 57	-18 40.8	6	2.2		-.8(.4)	-3.7(.4)				SHARP. 39	R	12	-1	620000000
4236	18 14 3	31 36.3	10	2.3			-3.9(.4)						59	21	0000+4040
2108	18 14 5	-12 11.6	7	1.8		-1.4(.3)	*					R	18	2	+20000000
2109	18 14 7	-16 27.4	9	2.7		-1.1(.3)	-3.0(.4)				HFE 51.EO		14	-0	620000000
2110	18 14 42	-22 15.1	8	2.6	1.8(.4)	-1.7(.3)							9	-3	230000000
2112	18 15 0	-27 0.0	8	3.7	.5(.3)		*		-30374	6842	GC 24961		5	-5	010000000
2113	18 15 5	-11 46.8	9	2.6		-2.1(.3)	-4.2(.3)				NGC 6604.EO.R		19	2	660000000
2114	18 15 32	-13 28.4	6	2.2	1.0(.3)				-10409		ES SER		17	1	110000000
2115	18 15 35	-15 21.5	9	2.7	.8(.3)	-.5(.4)			-20461				16	0	130000000
2116	18 15 41	17 58.6	7	1.8	-.2(.3)	-1.2(.3)			20356		IQ HER		46	15	30001002?
2118	18 15 42	-6 55.0	9	2.6	9(.3)	-1.0(.3)							23	4	330000000
2117	18 15 43	-13 46.4	9	2.7		-1.9(.3)	-5.4(.4)				M 16.EO.R		17	1	620000000
2119	18 16 6	-13 57.8	7	1.8		-2.0(.3)	-2.6(.9)				RCW 165		17	1	+60000000
2122	18 16 25	-15 48.2	9	2.7	.8(.3)	-1.3(.3)			-20463				15	-0	330000000
2123	18 17 5	-12 20.6	9	2.6	.9(.3)	-.5(.5)			-10410				18	1	210000000
2124	18 17 36	-16 12.8	8	2.6	.0(.3)	<-5.7(.3)	-8.1(.3)		-20466		M 17.EO.R		15	-1	770000000
2126	18 17 47	-29 49.4	8	3.7	- 1(.3)	-1.0(.4)	*		-30376	6859	DEL SGR		3	-7	030000000
2127	18 17 55	-13 48.2	9	2.6	.8(.3)	-1.2(.3)			-10412				17	0	330000000
2128	18 18 14	21 56.8	12	2.2	.7(.3)				20361	6868	106 HER		50	16	100010000
2129	18 18 17	36 1.5	13	1.9	.9(.3)				40313	6872	KAP LYR		64	22	10001?000
2130	18 18 19	25 43.1	17	3.2	1.2(.3)				30333		DO 16684		53	18	?00010000
2131	18 18 22	-24 53.3	9	2.6	-.4(.2)				-20468	6861	SVS 101720		7	-5	110000000
2132	18 18 29	-13 4.3	6	1.5	1.7(.4)	-2.0(.3)	-4.4(.3)						18	1	760000000
2133	18 18 31	31 43.1	9	1.6	.2(.3)	-1.0(.4)			30334		TU LYR		59	20	3000310?0
2134	18 18 46	-2 53.8	9	2.6	.8(.3)				347	6869	ETA SER		27	5	110000000
2135	18 19 32	-27 3.8	8	3.7	1.5(.4)	-2.3(.3)	*						6	-6	030000000
2136	18 19 34	-13 31.9	9	2.6		-1.7(.3)	-3.8(.4)						18	0	620000000
2137	18 20 2	23 15.7	12	2.2	.9(.3)				20362	6882	GC 25082		51	17	100010000
2138	18 20 21	49 6.3	10	1.4	.4(.3)				50279	6891	DO 36186		77	25	100011000
2139	18 20 25	-13 42.9	9	2.6	-.1(.3)	-2.6(.3)	-3.7(.4)		-10414				18	-0	730000000
2142	18 21 28	3 35.7	10	2.5	.9(.3)	-.6(.4)	-3.1(.4)						33	8	700000000
2143	18 21 33	-16 15.4	8	2.6	1.6(.4)	-1.4(.3)	-3.3(.4)		349		SVS 4075		15	-2	270000000
2145	18 21 33	21 43.8	10	1.8	.8(.3)	-1.6(.4)							50	16	10C0300??
2147	18 22 8	-13 16.1	9	2.6		-2.3(.3)	-4.0(.9)		20364	6895	109 HER		18	-0	660000000
2148	18 22 12	39 33.1	10	1.4	1.1(.3)	-.0(.5)					SHARP. 53.EO.R		67	22	100031070
2149	18 22 15	-20 31.0	15	3.7	1.1(.3)		-3.4(.4)		40315		TW LYR		12	-4	570000000
4237	18 22 42	-13 18.0	10	2.4	1.6(.4)	-1.6(.4)			-20478	6896	21 SGR		18	-0	3+C000000
2150	18 23 7	5 43.8	10	2.5	.9(.3)	-1.4(.3)					SHARP. 53		35	8	300000070
2151	18 23 26	-22 5.5	8	2.0	.6(.3)	-1.5(.4)			-20482		V2548 SGR		11	-5	310000000
2152	18 23 39	-11 51.3	9	2.6		-1.5(.3)							20	0	220000000

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
2154	18 23 52	-6 55.5	9	2.6	.6(.3)	-1.9(.3)	-2.8(.5)					24	2	730000000
2153	18 23 52	-12 26.8	16	3.7		-.9(.4)	-3.7(.4)				EO.R	19	-0	6?0000000
2155	18 24 4	23 27.7	7	1.3	1.2(.3)	-2.7(.4)	-3.6(.5)				DO 16793	52	16	600070006
2156	18 24 16	3 55.0	16	3.6	.4(.3)				350		V988 OPH	34	7	100000000
2157	18 24 22	-12 42.0	9	2.6		-1.5(.3)	-3.3(.4)				W 39.EO.R	19	-0	420000000
2158	18 24 31	1 6.8	10	2.5	1.1(.3)				351		DO 4822	31	6	100000000
2159	18 24 34	7 31.2	16	3.5	.9(.3)				10357		V585 OPH	37	9	100000000
2160	18 24 39	10 50.6	17	3.3			-3.1(.4)					40	10	400000070
216.	18 24 47	-12 28.5	9	2.6	-1(.2)	-2.2(.3)	-3.3(.4)		-10422		UY SCT.EO	19	-0	730000000
2161	18 24 47	-12 0.0	9	2.6		-1.1(.4)	-3.8(.4)				R	20	-0	660000000
2163	18 24 53	-25 26.6	7	3.7	.5(.3)		•		-30386	6913	LAM SGR	8	-7	010000000
2165	18 24 59	-3 51.5	9	2.6	.8(.3)	-2.1(.3)	-3.2(.4)				SHARP. 62	27	4	730000000
2164	18 24 59	-8 42.6	8	2.0	1.1(.3)	-.9(.4)			-10424			23	1	330000000
2166	18 25 11	-13 4.1	9	2.6	1.2(.3)	-.9(.4)			-10425			19	-1	230000000
2167	18 26 2	-17 45.9	9	2.6	.6(.3)				-20487			15	-3	110000000
2168	18 26 15	-11 34.7	9	2.1	1.2(.3)	-1.0(.3)	-2.8(.5)		-10426			20	-0	630000000
2169	18 26 30	-10 55.2	10	2.4		-2.3(.4)	-3.9(.4)				R	21	-0	640000000
2171	18 27 7	82 35.9	47	1.3	1.5(.3)	-1.2(.4)	-3.1(.4)				SVS 4271	115	28	500232200
2172	18 27 32	24 19.7	17	3.2	1.4(.3)							53	15	?00010000
2173	18 27 44	-1 24.2	16	3.5	1.3(.3)						R	29	4	100000000
2174	18 28 18	-9 45.2	9	2.0	1.4(.3)	-1.1(.4)	-3.1(.4)				SHARP. 56	22	0	430000000
4238	18 28 33	89 6.0	470	1.6	1.6(.4)					7394	LAM UMI	122	27	1?0112100
2177	18 28 47	-2 7.6	8	2.5	1.6(.4)	-2.9(.3)	-5.5(.3)				W 40.EO.R	29	4	770000000
2178	18 28 50	-8 38.2	6	2.2	.6(.3)	-2.3(.3)						23	0	330000000
2179	18 28 55	-10 .3	7	3.6	1.0(.3)	-.4(.4)	•					22	-0	+30000000
2180	18 28 55	4 20.7	16	3.5	1.0(.3)				353		TY OPH	35	6	100000000
2181	18 28 57	38 35.6	11	1.6	1.2(.3)	-1.1(.4)			40320		KP LYR	67	20	100021070
2182	18 29 48	-14 53.3	8	2.6	.9(.3)				-10433	6959	GC 25310	18	-3	110000000
2184	18 30 10	86 39.5	172	2.1	1.4(.3)						GC 25364	119	28	??0112?00
2185	18 30 26	-7 30.1	6	2.2	1.6(.3)	-1.1(.4)			-10434			24	1	320000000
2186	18 30 37	-14 10.8	8	2.5	1.1(.3)	-1.2(.4)			-10435			18	-3	310000000
2187	18 30 39	36 58.6	8	1.5	-.5(.3)	-1.3(.4)			40321		T LYR	65	19	300013020
2188	18 30 53	-9 10.7	9	2.6		-1.0(.4)					R	23	-0	220000000
2189	18 31 23	14 12.1	17	3.2	.4(.3)						R	44	10	100000000
2190	18 31 26	-7 20.9	16	3.6		-2.1(.3)	-4.6(.4)				R	24	0	600000000
2191	18 31 32	-21 3.5	7	3.6	1.5(.3)		•				V2588 SGR	12	-6	?10000000
2192	18 31 37	-11 33.3	9	2.6	<1.3(.3)	-1.3(.3)						21	-2	130000000
2193	18 31 46	-8 45.7	7	3.6		-1.2(.4)	-2.7(.4)				W 41.EO.R	23	-0	?60000000
2194	18 31 49	-7 59.3	16	3.6		-1.0(.4)	-3.5(.4)				R	24	0	600000000
2195	18 32 2	-8 36.1	16	3.7	1.8(.4)	-.7(.4)	-3.6(.4)				R	23	-0	??0000000
2196	18 32 27	-19 18.7	8	2.6	.7(.3)		-3.6(.4)		-20497		V1692 SGR	14	-5	510000000
2197	18 32 27	-8 16.1	9	2.6	.8(.3)				-10438	6973	ALF SCT	24	-0	110000000
2198	18 33 10	51 44.9	18	2.1	1.1(.3)				50282		BY DRA	81	24	100012000
2199	18 33 17	5 32.7	10	2.0	1.8(.4)	-1.3(.4)	-3.5(.4)					36	6	700000040
2200	18 33 30	-7 11.8	16	3.6			-4.2(.4)				R	25	0	400000000
2201	18 33 49	-19 58.1	8	2.6	1.3(.4)				-20500			14	-6	110000000
2202	18 33 51	-7 23.4	16	3.6		-1.3(.4)	-3.5(.4)				R	25	-0	600000000
2203	18 34 13	-7 38.3	6	2.2	1.0(.3)	-1.4(.3)	-3.0(.4)		-10441		RX SCT R	25	-0	770000000
2204	18 34 44	-2 43.1	9	2.5	.4(.3)	-.5(.4)			359		CZ SER	29	2	310000000
2205	18 34 47	-5 27.7	9	2.5		-1.5(.3)	-3.9(.3)					27	1	660000000

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
2206	18 34 52	10 24.1	9	1.9	-.4(.3)	-3.4(.3)	-4.3(.4)	-6.7(.6)	10365		V1111 OPH		41	8	700000070
2207	18 35 4	-6 22.3	10	2.4		-1.2(.4)	-3.8(.4)					R	26	0	600000000
2208	18 35 13	38 44.5	8	1.2	-.4(.3)	-.6(.4)			40322	7001	ALF LYR		67	19	300011070
2210	18 35 33	-6 50.7	16	3.6		-2.9(.3)	-6.1(.4)				EW SCT,EO.	R	25	-0	600000000
2211	18 35 39	-5 32.5	9	2.5	1.8(.3)	-1.1(.4)	-3.1(.4)					R	27	0	770000000
2213	18 35 59	8 45.6	7	2.2	-1.3(.3)	-2.3(.3)	-2.9(.4)	-6.3(.6)	10366	7002	X OPH		39	7	700000070
2214	18 36 7	-13 50.2	9	2.2	1.4(.3)				-10446				19	-4	170000000
2215	18 36 8	-15 4.3	15	3.6	1.2(.3)	-.4(.5)			-20505		GC 25494		18	-4	370000000
2217	18 36 28	39 37.6	11	1.5	-.6(.2)	-1.2(.3)			40323	7009	XY LYR		68	19	300023070
2218	18 36 33	18 23.2	9	2.3	1.1(.3)				20369		DO 16917		48	11	100000000
2219	18 37 0	11 48.5	17	3.3	.9(.3)				10367		V515 OPH		42	8	100000000
2220	18 37 10	-7 49.0	9	2.6	1.4(.3)				-10449	7007	GC 25524		25	-1	110000000
2222	18 37 31	-0 23.6	16	3.5		-1.7(.4)							31	2	200000000
2223	18 37 32	-5 45.5	9	2.5	.8(.3)	-1.7(.3)	-3.3(.4)		-10450			R	27	-0	730000000
2224	18 37 53	-25 46.8	7	3.6	1.2(.3)		•				V2380 SGR		9	-9	010000000
2225	18 33 3	40 17.8	14	1.7	1.2(.3)	-.9(.4)			40324		DO 16943		69	19	1000+3070
2227	18 38 46	-4 24.2	9	2.5	.7(.3)	-2.4(.3)	-3.7(.3)		363		DO 5003		28	0	770000000
2228	18 39 22	28 46.2	12	2.1	1.5(.3)				30339		SY LYR		58	15	?00011000
2229	18 39 28	-5 5.2	9	2.5	1.5(.4)	-1.0(.3)			-10454				27	-0	320000000
2230	18 39 31	-2 49.6	9	2.5	1.2(.3)				364				29	1	110000000
2232	18 39 42	17 38.7	8	2.0	-1.7(.3)	-3.5(.4)	-3.8(.4)		20370				48	10	700000064
2233	18 39 53	-2 21.1	9	2.0	-.9(.2)	-3.5(.3)	-3.6(.3)		365				30	1	770000000
2236	18 40 4	28 55.4	7	1.5	.4(.2)	-1.8(.3)			30340		FI LYR		58	15	+000330+?
2235	18 40 4	-19 20.3	8	2.6	-.4(.3)	-1.3(.3)			-20510	7023	GC 25588		15	-7	130000000
2238	18 40 24	-3 36.3	16	3.5			-3.7(.4)					R	29	0	400000000
2239	18 40 49	12 21.7	10	2.5	1.3(.3)	-.8(.4)			10373		KX HER		43	7	300000020
2240	18 41 7	36 55.1	10	1.3	.9(.3)	-1.0(.4)			40325		HK LYR		66	18	100031070
2241	18 41 15	13 53.1	7	2.2	-.1(.3)	-2.4(.3)	-3.1(.4)		10374				45	8	700000000
2243	18 41 42	-4 23.3	9	2.5		-1.3(.4)	-4.2(.3)						28	-0	460000000
2242	18 41 44	32 33.4	9	1.7		-.4(.4)	-3.3(.4)						62	16	600074040
2244	18 43 1	-19 38.6	6	1.7	.1(.3)	-1.2(.4)			-20515	7045	GC 25677		15	-8	+30000000
2245	18 43 23	-2 42.6	9	2.4	1.0(.3)	-2.1(.3)	-5.1(.4)					R	30	-0	700000000
2246	18 43 39	43 34.8	15	1.8	1.1(.3)	-1.0(.4)			40328		RW LYR		73	19	2000+3070
2247	18 44 7	26 38.0	10	1.7	1.5(.3)				30342	7064	GC 25721		57	13	?00011000
2248	18 44 26	-4 47.8	9	2.6	1.1(.3)	-.9(.4)			376	7063	SET SCT		28	-1	130000000
2251	18 45 2	-2 3.0	9	2.5	1.7(.4)	-2.9(.3)	-6.0(.4)		377		AB AQL,EO.	R	31	-0	770000000
2252	18 45 3	-9 21.6	8	2.5	1.5(.4)	-1.2(.3)							24	-3	230000000
4239	18 45 27	-22 35.5	7	1.7		-.8(.4)	•		-20521				12	-9	020000000
2254	18 45 39	-2 3.0	9	2.5	1.5(.3)	-.5(.5)			379				31	-0	310000000
2256	18 46 37	-6 58.4	16	3.6		-1.8(.3)							27	-3	200000000
2258	18 47 8	-1 32.0	16	3.5	1.6(.3)		-3.3(.4)		381		DO 5126	R	31	-0	500000000
2259	18 47 25	9 29.5	10	2.5		-1.9(.3)	-2.4(.5)						41	5	200000060
2260	18 47 38	-7 57.8	6	1.5	-.1(.2)	-1.1(.3)			-10467	7089	S SCT		26	-3	330000000
2261	18 48 0	47 27.9	12	1.3	.5(.3)	-1.1(.4)			50284		DO 36528		77	20	100031000
2264	18 48 57	-29 4.6	8	3.7	1.3(.3)		•				NZ SGR		7	-13	010000000
2266	18 49 35	12 7.5	17	3.3	1.6(.4)	-1.2(.4)					LO HER		44	5	300000070
2267	18 49 45	-3 47.8	9	2.6	1.2(.3)				385		DO 5155		30	-2	110000000
4240	18 49 50	25 36.3	10	2.3			-3.3(.4)						56	11	?000+404?
2266	18 49 50	-5 23.2	6	2.2	1.1(.3)				-10471		LP SCT		28	-3	110000000
2270	18 50 8	-21 33.1	7	3.7	.5(.3)	-.5(.4)	•		-20524		V2059 SGR		14	-10	030000000

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	O '	S	'									O	O	
2271	18 50 50	1 10.4	9	2.3		-2.3(.3)	-5.2(.4)					R	34	0	600000000
2272	18 51 13	0 36.2	9	2.3	.9(.3)	-1.8(.3)			389				34	-0	300000000
2274	18 51 39	40 57.2	10	1.3	.2(.3)	-.8(.4)			40329		DO 36593		71	17	300031070
2275	18 52 2	-16 35.1	6	1.5	.1(.2)	-.9(.4)			-20527		UX SGR		19	-8	130000000
2276	18 52 16	10 35.3	10	2.5	.2(.3)	-1.1(.5)			10384		V913 AQL		43	4	100000020
2278	18 52 40	36 50.9	8	1.2	-1.5(.3)	-1.7(.3)		-6.5(.6)	40331	7139	DEL2 LYR		67	15	300033030
2279	18 52 48	42 25.3	10	1.8	1.4(.3)	-1.8(.5)			40332		DO 36611		72	17	10001?020
2280	18 53 9	-11 4.8	8	3.7	1.2(.3)		•		-10477		BB SCT		24	-6	?10000000
2282	18 53 41	-10 36.3	9	2.5	.4(.3)	-.6(.4)			-10479		RW SCT		24	-6	310000000
2284	18 53 47	7 51.1	10	2.5		-1.7(.4)	-4.4(.4)				SHARP. 76	R	41	3	600000060
2285	18 53 55	43 52.5	10	1.5	-2.3(.3)	-2.5(.3)	-2.5(.4)		40334	7157	R LYR		74	18	700073020
4241	18 54 1	30 3.5	10	2.2	1.0(.3)	-1.0(.4)			30347				61	12	3000++027
2286	18 54 47	-21 11.0	8	3.7	.6(.3)	-.6(.4)	•		-20530	7150	XI2 SGR		15	-11	030000000
2287	18 55 15	3 22.9	16	3.3		-1.2(.4)							37	0	200000070
2288	18 55 53	4 35.4	8	2.3	.9(.3)	-1.2(.4)	-3.0(.5)		402		DO 5230		38	1	700000040
2289	18 56 3	-29 55.2	9	3.7	-.2(.3)	-3.5(.3)	•		-30398		SVS 4465		7	-15	030000000
2290	18 56 4	6 38.3	9	1.9	.5(.3)	-2.6(.3)	-4.5(.4)						40	1	700000060
2291	18 56 12	12 56.1	11	2.1	1.2(.3)	-2.1(.4)			10388		V490 AQL		45	4	1000020+0
2292	18 56 25	14 19.0	16	2.9	1.0(.3)				10389		UV AQL		47	5	+00001000
2293	18 56 27	-19 16.7	7	3.7	.4(.3)		•		-20532		GC 26063		17	-10	010000000
2296	18 57 10	5 16.0	16	3.3	1.2(.3)				10391		V492 AQL		39	1	100003000
2297	18 57 57	22 44.5	17	2.8	.8(.3)				20382	7183	DO 17275		54	8	10000?000
2300	18 58 45	-12 50.7	9	2.6	.9(.3)				-10482		ST SGR		23	-8	110000000
2301	18 58 47	40 36.6	10	1.5	.8(.3)				40336	7201	DO 17295		71	16	100011000
2302	18 58 59	-5 50.9	9	2.5	1.0(.3)				-10483	7193	12 AQL		29	-5	110000003
2303	18 59 14	4 7.7	10	2.6			-3.8(.4)	-6.3(.6)				R	38	-0	400000050
2304	18 59 21	1 7.7	16	3.4		-2.0(.3)	-4.9(.4)				W 48,EO,R		35	-2	600000000
4242	18 59 57	4 57.1	12	4.0			-3.6(.4)						39	-0	?00000040
2305	19 0 5	8 25.3	16	3.2	1.0(.3)				10399		DO 5287		42	1	100000000
2308	19 0 35	20 39.6	12	2.0	1.6(.3)				20384		DO 17325		53	7	100001000
2309	19 0 41	-22 45.5	8	3.7	-.7(.3)	-1.4(.4)			-20534		SU SGR,EO		14	-13	030000000
2310	19 0 45	7 24.6	10	2.5	-.5(.3)	-2.3(.4)	-3.1(.5)	-6.3(.6)	10401				41	1	300000070
2312	19 0 56	12 9.5	11	2.1	1.2(.3)				10400		V915 AQL		45	3	100001000
4243	19 1 13	57 46.3	28	2.0			-2.8(.4)		60260		DO 36779		88	21	?000?4000
2314	19 1 39	-5 46.4	9	2.5	-.9(.2)	-1.5(.3)			-10486	7220	V AQL		29	-5	330000000
2315	19 1 58	-13 50.2	16	3.5	1.5(.3)	•							22	-9	1?0000000
2316	19 2 53	8 9.8	16	3.2	1.6(.4)	-1.6(.3)					DO 5325		42	1	30000+0+0
2318	19 3 4	20 17.3	10	2.4	1.3(.3)	-1.5(.4)							53	6	30000?02?
2317	19 3 8	30 40.6	10	1.6	1.2(.4)				30354	7238	DO 17382		62	11	100011000
2319	19 3 17	27 2.3	12	1.9	.4(.2)	-.8(.4)			30355		DO 17384		59	9	300003077
2320	19 3 24	39 36.2	14	1.8		-.6(.3)							70	14	20002?0?0
2321	19 3 47	6 28.6	16	3.2	1.4(.3)								40	-0	100000000
2323	19 3 51	-27 45.7	9	3.7	.7(.3)		•		-30401	7234	TAU SGR		9	-15	010000000
2324	19 4 5	8 7.8	8	2.0	-1.4(.3)	-2.4(.3)	-3.5(.4)		10406	7243	R AQL		42	0	600007060
2326	19 4 33	7 5.0	8	2.0	.3(.3)	-.8(.5)	-3.4(.4)		10407		V844 AQL		41	-0	500001060
2327	19 4 42	-17 4.8	9	3.8	.8(.3)	-1.1(.4)			-20538		FQ SGR		19	-11	030000000
2329	19 5 40	6 12.6	16	3.2	-.2(.3)	-.8(.4)			10408		V347 AQL		40	-1	30000?0?0
2330	19 5 56	-22 16.8	8	3.8	1.2(.3)	-1.6(.3)	•		-20540				15	-14	030000000
2331	19 6 30	39 4.3	8	1.2	.4(.3)	-.8(.4)			40338		V398 LYR		70	14	100031070
2333	19 7 33	9 20.1	7	2.3		-1.6(.5)	-3.2(.4)						43	0	60000+060

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
2334	19 7 54	9 .8	8	2.0	1.7(.4)	-2.7(.3)	-5.8(.4)	-8.2(.6)			HFE 58 R	43	-0	700006070
2335	19 8 7	-15 9.2	9	3.8	1.1(.3)		•		-20543		SVS 8116	22	-11	010000000
2338	19 9 59	66 .7	16	1.3	6(.3)	-1.4(.4)			70148		SZ DRA	97	23	100013000
2341	19 11 2	10 47.5	5	1.3		-2.4(.3)	-5.3(.4)	-7.0(.6)			R	45	0	600006070
2343	19 11 22	0 3.5	9	2.2		-1.8(.5)	-4.0(.4)					36	-5	600000000
4244	19 11 51	32 30.1	13	2.0	1.7(.3)				30363		DO 17550	65	10	?00011000
2345	19 11 58	11 4.9	8	1.6		-2.0(.3)	-4.5(.4)	-6.7(.6)			EO,R	45	0	600006070
2346	19 12 0	46 53.3	13	1.5	1.1(.3)				50289		SS LYR	78	16	100011000
2348	19 12 39	67 33.8	23	1.5	.7(.3)				70150	7310	DEL DRA	99	23	100011000
2349	19 12 40	-7 8.3	9	2.6	-1.6(.2)	-4.0(.3)	-4.4(.4)		-10497		W AQL	29	-9	730000000
4245	19 13 22	-17 5.4	10	3.8	.6(.3)		•		-20548		T SGR,EO	20	-13	010000000
2351	19 13 25	30 26.2	13	1.8	1.4(.3)				30364	7302	DO 17571	63	9	100001000
2350	19 13 28	9 34.1	7	1.8	.8(.3)	-2.5(.4)	-3.2(.4)					44	-1	700007060
2353	19 13 49	-19 25.4	8	3.8	1.3(.3)		•		-20549		R SGR	18	-14	010000000
2356	19 14 16	67 26.8	28	1.7	1.5(.3)	-.6(.4)			70152			99	23	?00013000
2357	19 14 33	38 2.4	10	1.4	1.4(.3)	-.7(.4)	-3.5(.5)		40341	7314	THE LYR	70	12	1000610+0
2358	19 14 37	21 48.7	12	1.9	.7(.3)	-.5(.5)			20393		CG VUL	55	5	2000010??
4246	19 14 39	-20 47.6	9	3.8	-.1(.3)		•				EO	17	-15	010000000
2359	19 15 9	11 50.9	9	1.9		-.6(.4)	-3.5(.4)	-6.4(.6)			DO 5557 R	47	-0	600004050
2360	19 15 15	12 4.2	11	2.1	1.2(.3)		-3.1(.5)		10415		DO 5563	47	-0	100004070
2361	19 15 52	-17 8.5	10	3.8	1.0(.3)	-1.4(.4)	•					21	-14	030000000
2362	19 16 1	23 45.8	10	2.3		-1.3(.4)	-3.1(.4)					57	5	60000+047
2363	19 16 17	-15 58.2	10	3.8	.8(.3)	-.9(.4)	•		-20554		V1942 SGR	22	-13	030000000
4247	19 16 44	49 5.1	23	2.3			-2.7(.4)					80	16	400077000
2365	19 16 46	3 18.8	11	2.3	1.5(.3)				423		ER AQL	39	-5	100001000
2366	19 17 32	22 27.1	7	1.7	.1(.2)	-.7(.5)			20398		DO 17637	56	4	300003027
2367	19 17 35	22 57.1	12	1.9	1.0(.3)				20397		DO 17636	57	4	100001000
2368	19 17 36	-8 6.1	7	2.2	-.8(.2)	-3.2(.3)	-3.6(.4)		-10502			20	-10	730000000
2369	19 17 43	-10 42.8	9	3.8	.5(.3)		•		-10503			27	-11	010000000
2370	19 17 49	-26 15.6	9	3.8	1.4(.4)	-1.9(.3)	•					12	-18	030000000
2371	19 18 13	13 49.8	9	1.9			-1.2(.4)	-3.9(.4)			R	49	0	600006060
2373	19 18 50	-16 .7	10	3.9	.9(.3)	-1.1(.4)	•		-20558	7342	UPS SGR	22	-14	030000000
2374	19 19 15	9 23.2	9	2.0		-1.6(.4)	-2.9(.4)					45	-2	600002060
2375	19 19 25	17 33.9	7	1.8	-.2(.4)	-1.8(.4)			20399		T SGE R	52	2	300003020
4248	19 19 49	57 30.2	29	3.0	1.6(.4)	-4.2(.3)			60265	7356	DO 37158	89	19	+0003+000
2376	19 20 9	13 58.5	9	1.9	1.3(.4)	-2.5(.4)	-5.7(.5)	-7.8(.6)			HFE 59,EO,R	49	-0	700007070
2378	19 20 38	14 23.0	16	3.0		-1.7(.3)	-4.5(.4)				R	49	-0	60000+0+0
2379	19 20 44	14 10.0	9	1.9		-2.1(.4)	-4.6(.4)	-6.5(.6)			EO,R	49	-0	200006070
2380	19 20 55	14 47.7	7	1.8		-1.4(.4)	-3.1(.4)					50	-0	600004040
2381	19 21 24	14 24.5	9	1.9	1.7(.4)	-3.6(.3)	-6.9(.4)	-8.8(.6)			HFE 60,EO,R	49	-0	600007070
2382	19 22 17	-13 28.9	10	3.9	1.3(.3)		•		-10511			25	-13	010000000
2383	19 23 10	50 9.4	14	1.4	-1.4(.2)	-2.9(.3)	-3.5(.4)		50294		CH CYG	82	16	700076000
2384	19 23 11	76 27.6	33	1.3	-.1(.3)	-.6(.4)			80036		UX DRA	108	25	100031100
2388	19 24 13	71 34.2	29	1.5	1.5(.3)		-3.0(.4)		70156		YZ DRA	103	23	100041?00
2389	19 24 14	36 7.1	9	1.5	1.5(.3)		-2.9(.5)		40347		DO 17754	69	9	100011040
2390	19 24 30	11 15.6	7	1.8	.1(.2)	-4.2(.3)	-6.2(.4)	-6.7(.6)	10420		DO 5752,EO	47	-3	700007070
2391	19 24 51	-17 25.2	9	3.8	.3(.3)	-1.3(.3)			-20563			21	-16	030000000
2392	19 24 55	6 56.9	10	2.6	.8(.3)	-1.1(.3)						43	-5	30000+020
2395	19 26 41	24 32.5	12	1.9	.2(.3)	.1(.6)			20407	7405	ALF VUL	59	3	100003077
2396	19 27 13	45 56.7	11	1.2	1.1(.3)	-.6(.4)			50295		AW CYG	78	13	300032000

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
2400	19 27 37	-0 56.6	7	1.8	.5(.3)	-1.3(.3)			438		V374 AQL		37	-9	330001000
2398	19 27 38	2 49.6	8	1.9	1.1(.3)	-1.6(.5)	-3.5(.5)		437	7412	SVS 101849		40	-7	500001020
4249	19 28 5	18 11.6	10	1.8		-1.4(.3)	-3.2(.4)				SHARP. 82		54	0	60000+060
2402	19 28 6	-2 54.1	7	1.5	.5(.3)	-3.2(.3)			439	7414	36 AQL		35	-10	110003000
2103	19 28 17	19 42.5	7	2.3	1.4(.3)	-1.0(.4)	-3.0(.4)						55	1	70000+040
2404	19 28 26	48 53.9	13	1.4	1.2(.3)				50296		DO 37347		81	14	100011000
2406	19 28 38	27 52.1	8	1.7	-.1(.2)	-.9(.4)			30370	7417	BET CYG		62	5	30000302?
2407	19 28 53	46 2.7	15	1.4	-.2(.3)	-1.0(.4)			50297		AF CYG		78	13	3000+2000
2408	19 29 24	18 36.8	9	1.9		-.9(.5)	-3.2(.4)					R	54	-0	600006060
2409	19 29 36	43 31.4	9	1.4	.4(.3)	-1.7(.4)	-3.6(.5)	-6.6(.6)	40348		UV CYG		76	12	+00013070
2410	19 30 3	13 15.2	16	3.0			-2.7(.4)						49	-3	40000?0?0
4250	19 30 39	13 37.5	10	2.5		-1.8(.3)	-2.7(.4)				V1137 AQL		50	-3	60000?060
2412	19 30 41	4 56.4	10	2.5	.5(.3)		-2.8(.6)		443		V1293 AQL		42	-7	10000?040
2414	19 31 11	23 31.9	9	1.4	.5(.3)	-1.5(.4)			20413		EP VUL		59	2	10000102?
2415	19 31 22	5 21.7	6	1.5	-.3(.2)				10428		V450 AQL		43	-7	100001000
2416	19 31 28	-16 28.8	9	2.0	.1(.3)	-1.1(.4)	*		-20568		AQ SGR		23	-17	030000000
2417	19 32 12	27 57.9	9	1.8	-.4(.3)	-2.8(.3)	-3.4(.4)		30374		V1129 CYG		63	4	30000706+
2418	19 32 19	49 9.1	13	1.4	.4(.3)				50300	7442	DO 37447		82	14	100011000
4251	19 32 45	30 23.0	7	2.0		-1.3(.5)	-3.6(.5)				D+30 3639	R	65	5	60000+044
2420	19 33 12	33 41.6	13	1.7	1.3(.3)				30376		GC 27069	R	68	7	100001000
2422	19 35 37	50 5.6	16	1.8	.8(.3)	-1.1(.3)	-2.9(.4)		50301		R CYG		83	14	30007+000
2424	19 35 40	69 41.2	20	1.2	.4(.3)		-3.7(.4)		70159		DO 37579		102	22	100051100
2423	19 35 40	11 38.2	7	1.8	.3(.3)	-1.4(.3)			10433		RT AQL		49	-5	30003020
2425	19 36 11	-16 57.5	10	3.8	1.6(.3)	-1.6(.4)	-3.0(.4)						23	-18	070000000
2426	19 36 52	28 22.4	9	1.8	.3(.3)	-.9(.4)			30379		BG CYG		63	3	10000302?
2428	19 33 8	33 15.7	10	1.6	1.1(.3)	-1.0(.4)							68	5	3000030??
2429	19 38 23	43 48.4	12	1.4	1.2(.3)				40355		V462 CYG		77	10	100011000
2430	19 38 27	-4 .8	10	2.6	.8(.3)				448		DO 6039		35	-13	010001000
2432	19 38 52	32 29.9	13	1.7	1.0(.3)				30382		TT CYG		67	5	100001000
2433	19 38 58	39 56.2	14	2.0	1.7(.4)	-2.1(.4)	-2.2(.6)						74	9	+000350+0
2434	19 39 2	17 20.6	17	2.9	1.0(.3)	-.5(.4)			20427	7488	BET SGE		54	-3	30000?0?0
2435	19 39 4	42 58.5	14	1.9	1.2(.3)				40356	7492	DO 37608		77	10	10001?000
2436	19 39 37	48 41.1	16	1.3	1.8(.4)	-.4(.3)			50304		V391 CYG		82	13	2000?3000
2439	19 41 7	55 21.3	15	1.4	.2(.3)	-.9(.4)			60269	7509	V1351 CYG		88	15	100013000
4252	19 41 7	-0 4.5	16	3.1		-1.4(.4)	-3.9(.4)				V1152 AQL		39	-12	60000+0+0
2440	19 41 14	3 38.2	9	2.0	1.2(.3)	-1.2(.3)			450				42	-10	300003020
2443	19 41 47	34 22.4	11	1.5	1.2(.3)	-1.1(.3)			30385		IN CYG		69	5	3000030??
2445	19 42 21	35 7.9	8	1.7	1.3(.3)	-1.8(.4)	-3.2(.4)						70	6	70000206?
2446	19 42 40	34 17.5	13	1.7	.6(.3)				30388	7520	SVS 101884		69	5	100001000
2448	19 43 7	19 46.5	12	2.0		-1.1(.4)							57	-2	20000207?
2450	19 43 19	40 35.7	14	1.9	1.2(.3)				40362	7523	V973 CYG		75	8	10001?000
2452	19 43 42	1 33.6	9	2.0	1.0(.3)		-3.1(.5)		451		DZ AQL		41	-11	100001040
2453	19 43 57	10 30.7	9	1.9	-.8(.3)	-1.1(.4)			10439	7525	GAM AQL		49	-7	300002020
2454	19 44 10	24 27.3	9	1.9		-1.7(.3)	-4.2(.4)				SHARP. 87	R	61	-0	600006060
2455	19 44 41	25 5.2	4	.9		-2.4(.3)	-5.2(.4)	-6.9(.6)				R	61	0	600006075
2456	19 45 8	18 24.9	9	1.5	-1.1(.3)	-1.3(.4)			20433	7536	DEL SGE		56	-3	300003020
4253	19 45 26	9 21.9	10	2.5	1.7(.4)	-1.1(.3)							48	-8	30000+020
2458	19 46 4	3 36.1	9	1.9	1.1(.4)				453		WX AQL		43	-11	100001000
2459	19 46 13	47 46.8	16	1.9	1.5(.3)				50309	7547	DO 37751		81	11	?00011000
2460	19 47 10	26 43.0	6	1.1		-1.5(.4)	-3.5(.4)				SHARP. 90	R	63	0	600006064

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
2461	19 47 24	-7 43.4	9	1.9	-.7(.3)	-3.0(.3)	-3.6(.4)		-10524		GY AQL		33	-16	030007000
4254	19 47 40	8 23.5	15	3.0		-1.3(.4)							47	-9	?00002070
2462	19 48 9	24 46.2	9	1.9	1.1(.3)	-1.6(.4)			20438		SVS 101897		62	-1	300002020
2463	19 48 18	8 44.4	11	2.1	.2(.3)				10441	7557	ALF AQL		48	-9	100001000
2464	19 48 35	70 9.9	23	1.3	1.1(.4)	-.5(.4)			70160	7582	EPS DRA		102	21	100013100
2465	19 48 35	32 47.3	8	1.6	-2.8(.2)	-3.9(.4)	-4.5(.4)		30395	7564	CHI CYG		69	3	700007066
2466	19 48 48	38 35.7	14	1.6	.2(.2)	-.6(.4)			40364	7566	19 CYG		74	6	100003070
2467	19 48 55	37 41.9	14	1.6	.4(.3)				40365	7568			73	6	100001000
2471	19 50 18	22 19.3	9	1.9	-.8(.3)	-2.1(.3)	-3.6(.4)		20439		SVS 4865		60	-2	300006060
4255	19 51 15	0 41.2	15	4.3			-4.1(.4)						41	-13	00000?040
2472	19 52 23	49 27.8	13	1.4	1.2(.3)	-.0(.5)	-2.9(.5)		50311		DO 37860		83	11	100052000
4256	19 53 5	27 4.2	10	1.7		-1.3(.4)	-2.9(.4)				SHARP. 93	R	64	-1	60000+06?
2475	19 54 19	34 57.2	10	2.0	.9(.3)				30401	7615	ETA CYG		71	3	10000?000
2477	19 54 43	30 35.3	8	1.7		-1.2(.4)	-3.0(.4)						67	1	60000206?
2476	19 54 43	58 43.2	15	1.2	1.0(.3)				60274	7633	DO 37910		92	15	100011100
2479	19 54 56	-2 .4	7	2.1	-.6(.2)	-2.7(.3)	-3.3(.5)		458		RR AQL		39	-16	030003060
2480	19 55 36	44 8.8	12	1.4	.7(.3)				40368		AX CYG		79	8	100011000
2481	19 55 42	-3 40.2	10	2.6	1.2(.3)		-3.3(.4)		459		GC 27659		37	-16	010005000
2462	19 55 56	33 .3	8	1.7	1.3(.2)	-1.2(.5)					KL CYG		70	2	10000102?
2483	19 56 1	-13 44.2	16	3.3			-5.0(.4)						28	-21	0?0004000
2484	19 56 15	15 51.5	12	2.1	1.0(.3)				20444		V744 AQL		55	-7	100001000
2485	19 56 39	19 21.0	9	1.9	-.4(.2)	-1.0(.4)	-2.8(.5)		20445	7635	GAM SGE		58	-5	100003040
2486	19 57 42	17 22.8	12	2.0	.0(.2)	-1.3(.4)			20446	7645	13 SGE		55	-6	10000307?
4257	19 57 47	1 11.8	14	4.1			-3.2(.4)						42	-15	00000?040
2488	19 58 34	36 38.6	10	1.7	1.7(.4)	-1.1(.4)	-2.5(.5)		40371		SVS 8380		73	4	30000206?
4258	19 58 36	1 14.9	14	4.1			-3.2(.4)						42	-15	00000?040
2490	19 58 42	52 .4	12	1.1	.1(.3)	-.3(.4)			50312		SVS 101929		86	11	300011000
2491	19 58 54	36 58.9	14	1.6	1.4(.3)				40370		DO 18446		73	4	100001000
2492	19 59 8	33 2.0	9	2.0			-3.6(.4)					R	70	2	?00004044
2493	19 59 20	33 47.2	7	1.4	1.0(.3)				30406		V485 CYG		71	2	100001000
2494	19 59 21	40 45.7	11	1.7	.7(.3)	-2.9(.3)	-3.6(.4)						76	6	700007060
2495	19 59 55	33 25.1	7	1.4	1.7(.4)	-2.8(.3)	-5.5(.4)	-7.4(.6)	30407		NGC 6857	R	70	2	600007075
2496	20 0 51	76 23.3	38	1.7	1.4(.3)				60038	7686	69 DRA		109	23	1001+??00
2497	20 0 55	64 40.7	16	1.2	.8(.3)				60278	7676	64 DRA		98	17	100011100
2498	20 0 55	30 11.7	10	1.8		-1.1(.4)					V718 CYG		68	-0	20000202?
2500	20 1 38	30 19.2	8	1.7	1.1(.3)	-1.8(.4)	-3.3(.6)		30409		V719 CYG		68	-0	300002024
2501	20 2 19	67 44.1	24	1.5	1.4(.3)		-3.5(.4)		70161	7685	RHO DRA		101	19	100051?00
2502	20 2 24	40 17.8	14	1.5	1.1(.3)				40379		GN CYG		76	5	100001000
2503	20 2 33	36 40.7	11	1.5	.3(.3)	-.9(.4)			40380		AA CYG		73	3	30000107?
2504	20 2 56	20 31.5	12	2.0	1.0(.3)				20452		X SGE		60	-6	100001000
2505	20 3 12	15 21.6	12	2.1	1.1(.4)				20454	7680	GC 27872		55	-9	100001000
2506	20 3 38	51 41.5	14	1.4	1.6(.3)	-1.0(.6)			50315	7687	DO 38060		86	11	200011?00
2507	20 3 45	25 26.5	12	1.9	1.1(.3)				30412		DO 18551		64	-3	100001000
2508	20 3 45	-27 22.4	12	3.9	-1.7(.3)	-2.2(.3)	•		-30425		V1943 SGR		15	-28	030000000
2509	20 4 12	66 19.2	27	2.0		-	-3.1(.4)						99	18	+00044?00
4259	20 4 21	26 51.3	9	2.8		-1.6(.4)	-3.4(.5)						65	-3	+00007064
2511	20 5 23	5 56.7	11	2.6	1.1(.3)	-.9(.4)			10451				47	-14	000003020
2512	20 6 9	56 51.0	14	1.5	1.6(.3)	-.7(.4)			60280		V555 CYG		91	13	?00021100
2513	20 7 13	31 17.7	8	1.3	.3(.3)	-2.2(.3)	-3.4(.4)						69	-1	70000702?
2514	20 7 46	-6 25.4	10	2.6	-.8(.4)	-3.7(.3)	-5.3(.4)		-10529				36	-20	030007000

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
2515	20 7 49	-1 45.6	10	2.6	.3(.3)				467		V584 AQL		41	-18	010001000
2516	20 7 55	47 44.9	13	1.5	1.2(.4)				50316		SV CYG		83	8	10001+100
2517	20 8 2	26 8.4	7	1.4	1.2(.3)				30415		W VUL		65	-4	100001000
2519	20 9 16	35 59.3	19	2.2	1.1(.3)		-3.2(.4)		40393		V429 CYG		74	1	+0000?0??
2520	20 9 30	-11 22.7	10	2.6	.7(.3)				-10530				32	-23	010001000
4260	20 10 1	-0 33.3	15	4.1			-3.3(.4)				V515 AQL		42	-18	000007040
2522	20 10 18	-0 24.9	13	4.1	1.5(.3)		•		468		DO 6553		42	-18	010007000
2523	20 10 35	-1 12.0	10	2.6	1.3(.3)				469	7720	66 AQL		42	-19	010001000
2526	20 11 16	49 18.2	8	1.0	.1(.3)	-1.2(.3)	-3.0(.5)		50318		AC CYG		85	8	700013300
2528	20 11 44	38 34.8	14	1.7	.6(.3)				40397		RS CYG		76	2	100001000
4261	20 11 56	-0 9.1	8	2.2	1.8(.4)	-.9(.4)	-3.9(.4)	-6.3(.7)	470		SVS 8460		43	-18	030006010
2531	20 12 8	46 35.9	13	1.2	.2(.3)	-.6(.4)			50320	7735	OMI1 CYG		83	7	300001100
2532	20 12 19	-4 44.2	9	2.2	1.3(.3)				472				39	-21	070001000
2533	20 12 21	39 14.0	20	2.4	1.3(.3)				40400		BRIGHT NEB		77	3	10000+000
2534	20 12 26	26 16.9	18	2.6	.8(.3)							R	66	-5	700001000
2535	20 12 37	66 5.7	15	1.0	.3(.3)	-1.0(.4)			70163		DO 3B210		100	17	100013100
2537	20 13 18	7 31.0	16	3.2	.5(.3)	-.9(.4)			10461		DO 6597,EO		50	-15	000003070
2538	20 13 26	30 54.8	13	1.7	1.4(.3)				30423		SX CYG		70	-2	100001000
2540	20 13 51	47 32.8	13	1.5	-.0(.3)				50322	7751	OMI2 CYG		84	7	1000+?100
2541	20 13 54	23 18.6	9	2.0	1.1(.3)				20461	7741	22 VUL		64	-6	10000+000
2542	20 14 10	-21 29.6	12	3.9	.0(.3)	-1.1(.4)	•		-20585		RT CAP		22	-28	030000000
2544	20 14 52	40 14.3	20	2.4	.9(.3)				40401	7759	SVS 101975	R	78	3	100007000
2547	20 16 5	33 56.5	8	1.7	.7(.3)		-3.0(.6)		30425		DO 18825		73	-1	1000010+4
2549	20 16 10	39 12.5	14	1.6		-1.5(.3)	-2.8(.4)						77	2	600002077
4262	20 16 13	-16 2.3	8	2.1	1.3(.3)				-20586		AE CAP		28	-26	010007000
2550	20 16 36	34 14.9	8	1.7	.4(.3)	-1.5(.4)			30426		AU CYG		73	-1	300003072
2551	20 16 58	66 52.2	21	1.3	1.3(.5)	-.7(.6)			70165		DO 3B292		101	17	1000++300
2552	20 17 7	-7 42.8	12	4.0	1.1(.3)		•						36	-23	010007000
2554	20 17 33	40 48.3	11	1.7	1.7(.4)	-1.4(.4)	-4.2(.4)	-5.5(.7)				EO	78	3	700006070
2555	20 18 7	-14 59.1	10	2.6	.8(.3)				-10537	7776	BET CAP		29	-26	010001000
2556	20 18 12	47 44.9	9	1.2	.4(.3)	-1.1(.3)			50324		U CYG		84	7	300003300
4263	20 18 42	39 31.2	10	2.8		-1.6(.4)	-3.0(.5)						77	2	+0000+064
2557	20 18 54	41 12.9	11	1.7		-1.3(.4)					V1318 CYG	R	79	3	200007220
2558	20 19 25	35 27.8	11	1.5	1.2(.3)	-.3(.4)			40406		DO 18695		74	-1	300001077
2559	20 19 28	36 46.9	5	1.3	.1(.2)	-2.4(.4)	-3.5(.4)		40408		BI CYG		75	0	700007062
2561	20 19 43	40 17.1	12	1.3	.4(.3)				40410		V405 CYG	R	78	2	100001100
2560	20 19 46	37 21.8	7	1.1	-.3(.2)	-2.9(.4)	-5.5(.5)	-6.9(.6)	40409		BC CYG		76	0	700007077
2562	20 19 48	68 42.4	19	1.2	.1(.4)	-.8(.4)			70166	7804	AC DRA		102	18	300023100
2563	20 19 52	16 44.1	17	3.0	8(.3)				20464		DO 18920		59	-11	000001000
4264	20 20 9	39 46.1	11	1.7		-.8(.4)	-3.0(.5)	-6.4(.6)					78	2	600002???
2565	20 20 35	40 5.5	7	1.2	3(.3)	-1.6(.5)	-4.0(.4)	-6.5(.7)	40411	7796	GAM CYG	R	78	2	700007765
2566	20 20 15	63 48.6	25	2.1	1.4(.3)				60286	7805	GC 28340		98	15	700011?00
2567	20 20 49	-0 37.8	10	2.6	1.7(.3)	-.9(.4)			473		DO 6708		43	-21	010003070
2568	20 21 15	0 45.6	15	3.2	1.1(.3)				474		V865 AQL		45	-20	000001000
2569	20 21 27	51 51.7	14	1.5	1.6(.3)		-3.9(.5)		50326		V365 CYG	R	88	8	10004+100
2570	20 21 29	62 42.9	17	1.3	1.2(.4)				60288				97	14	100011100
2571	20 21 49	32 2.0	10	1.9	1.1(.3)	-.8(.4)			30430	7806	39 CYG		72	-3	30000+0??
4265	20 22 41	-7 19.3	17	4.3			-4.0(.4)						37	-24	070007040
2574	20 24 1	-2 12.7	13	3.9	1.3(.3)		•						42	-22	010007000
4266	20 24 2	-6 28.1	17	4.3			-3.4(.4)						38	-24	070007040

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
2575	20 24 11	38 11.3	7	1.2	-.4(.2)	-2.6(.4)	-3.9(.4)		40415		KY CYG		77	0	700007266
2577	20 25 3	-5 49.0	6	1.4	1.1(.3)		-2.4(.6)		-10539				39	-24	010001040
2578	20 25 17	39 15.5	9	1.6		-1.7(.4)	-4.1(.5)	-6.1(.7)				R	78	1	+00005674
2580	20 25 18	36 22.7	11	1.4	1.2(.3)				40418		V441 CYG		76	-1	100001100
2581	20 25 18	75 5.7	30	1.3	-.1(.3)	-1.2(.3)			80040		UU DRA		108	21	30033?300
2579	20 25 19	39 53.1	8	1.0		-1.2(.5)	-3.1(.7)				V1324 CYG		79	1	60000262?
2582	20 25 21	55 35.7	19	2.1	1.3(.3)				60291		V372 CYG		91	10	?00011?00
2583	20 25 29	40 54.4	10	1.2	1.1(.3)	-.7(.4)			40420		KZ CYG		79	2	300001100
2584	20 25 31	37 12.1	6	1.1	1.6(.4)	-2.5(.4)	-5.9(.4)	-7.3(.5)			SHARP. 106	R	76	-1	600007677
2585	20 26 29	37 37.9	10	1.3	1.2(.3)				40422		SVS 103001		77	-1	100001100
2586	20 26 29	40 42.5	10	1.4		-1.9(.4)	-4.4(.4)					R	79	1	60000466+
2588	20 26 50	16 6.8	17	3.0	.1(.3)	-.9(.4)			20470		RS DEL		59	-13	0000030?0
2589	20 27 2	9 44.5	11	2.6	.7(.3)			-6.4(.6)	10470		CT DEL		54	-17	000001010
2590	20 27 11	39 48.3	7	1.3	-.1(.3)	-2.4(.3)	-3.8(.5)	-6.2(.6)	40424		RW CYG		79	1	700007774
2591	20 27 25	40 1.9	7	1.0	.5(.3)	-2.6(.3)	-4.7(.4)	-6.7(.6)					79	1	700007674
2592	20 27 41	-4 54.9	8	2.3	.7(.3)	-.8(.4)			477		TZ AQL		40	-24	0300030?0
2593	20 27 42	38 50.3	7	1.6		-1.4(.4)	-4.2(.4)				W 69	R	78	-0	600006?64
2596	20 29 36	39 43.0	11	1.3	1.5(.4)				40428		DO 19093		79	0	100001100
2597	20 29 40	32 22.1	13	1.8	.9(.3)				30437		AD CYG		73	-4	100001000
2598	20 29 47	49 3.1	8	1.4	1.2(.3)				50331	7851	OME2 CYG		86	6	+00001100
2600	20 29 52	40 28.6	14	1.6	1.5(.3)		-3.6(.5)		40427				80	1	10000?5++
4267	20 29 58	38 48.0	9	2.0		-.7(.4)	-3.1(.5)	-5.8(.7)				R	78	-0	600007?54
2599	20 30 4	62 46.5	23	1.2	1.6(.3)		-3.5(.6)		60292		BF CEP		98	14	5000+?400
2601	20 30 15	35 16.6	9	1.3	1.1(.3)	-.8(.4)	-3.1(.4)		40429		V397 CYG		75	-3	700001???
2602	20 30 44	40 6.8	7	1.2		-2.4(.3)	-4.9(.4)	-7.3(.6)					79	0	600006675
2603	20 30 59	40 29.5	8	1.0	1.5(.3)	-2.0(.4)	-4.0(.6)				SVS 5206		80	0	300002406
2604	20 31 9	42 22.8	14	1.5	1.3(.3)	-1.3(.3)					W 72		81	2	300003+00
2605	20 31 17	40 35.4	10	1.3	.3(.3)	-1.6(.3)			40431				80	0	30000310?
2606	20 31 37	54 17.0	19	1.6	1.1(.3)				50333		DO 38576		91	9	+000?1100
2607	20 31 44	38 30.6	10	1.3	1.0(.3)	-.7(.4)			40432		BRIGHT NEB		78	-1	100001377
2608	20 31 50	35 4.6	11	1.4	.5(.3)				40433	7866	47 CYG		75	-3	100001100
2609	20 32 15	42 15.6	12	1.2	.3(.3)	-2.0(.5)	-2.7(.5)		40434		DO 38592	R	81	1	700002300
2610	20 32 18	-7 35.8	9	2.0	1.0(.3)				-10541				38	-26	010001000
2612	20 33 32	41 4.3	11	1.5		-1.2(.3)	-3.3(.5)					R	80	0	+0000260?
4268	20 33 49	-8 44.3	17	4.2			-3.3(.4)						37	-27	0?000?040
2613	20 34 8	53 39.0	13	1.2	1.2(.3)	-.6(.5)							91	8	1000?3300
2614	20 34 13	-2 42.2	10	2.6	.7(.3)				483	7873	70 AQL		43	-24	010001000
2616	20 35 0	41 24.9	14	1.6		-1.3(.3)	-3.7(.4)						81	0	60000+200
2617	20 35 3	37 42.1	10	1.3	1.1(.3)	-1.3(.4)			40435				78	-2	100003377
2618	20 35 41	18 5.9	10	2.0	-1.4(.3)	-1.8(.3)			20474	7886	EU DEL		62	-14	000003020
2620	20 36 31	41 55.7	12	1.2	1.8(.5)	-1.3(.4)					DO 38665		81	1	200002300
2621	20 36 34	42 27.9	11	1.3		-1.1(.3)	-4.2(.4)				DO 38658		82	1	600006+00
2623	20 37 8	-18 17.5	10	2.6	.6(.3)				-20592	7900	UPS CAP		28	-32	010001000
2624	20 37 17	42 9.8	14	1.5		-1.0(.3)	-4.6(.3)					R	82	1	600006+00
2625	20 37 28	41 8.1	9	1.4		-1.4(.3)	-4.6(.4)						81	-0	600006604
2626	20 37 46	39 1.3	14	1.6	1.0(.3)				40439				79	-1	+00001100
2627	20 37 48	53 20.8	15	1.6	1.3(.4)				50336		V1202 CYG		91	7	100011?00
2629	20 38 20	1 .7	7	1.7	1.4(.3)	-.3(.4)			487		SVS 103015		47	-24	030001070
2631	20 39 26	41 40.4	12	1.2		-1.3(.3)	-3.4(.4)						82	-0	600004200
2632	20 39 31	47 57.7	11	1.2	-1.9(.3)	-3.5(.3)	-3.6(.4)		50338		V CYG		87	4	700003300

TABLE OF OBSERVATIONS

GC	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
2633	20 39 35	45 6.3	12	1.4	.6(.3)	-.9(.4)			50337	7924	ALF CYG		84	2	300001+00
2635	20 40 39	38 31.8	11	1.5	2.2(.5)	-1.0(.4)			40441		V446 CYG		79	-2	30000?1??
2636	20 40 42	42 46.7	14	1.5			-3.8(.3)					R	83	0	400004?00
2637	20 41 36	43 .5	12	1.3	.4(.3)				40442		DG CYG		83	0	100001100
4259	20 41 45	-5 1.5	13	4.0	1.2(.3)		•		-10546		Y AQR,EO		42	-27	01000?000
2639	20 41 [illegible]	19 4.4	17	3.1	.7(.3)				20479		ES DEL		64	-14	000001000
2640	20 4[illegible]	80 19.7	52	1.7	1.6(.3)				80041		SVS 8576		114	22	11012??00
2644	20 [illegible]	56 19.5	14	1.3	.7(.3)	-1.3(.4)	-3.7(.5)		60297	7944	GC 28926		93	9	100011600
2641	20 4[illegible]	17 55.6	9	2.3	-.8(.3)	-1.4(.4)	-3.6(.4)		20481	7941	U DEL		63	-15	000007020
2643	20 43 21	30 29.7	18	2.4	1.1(.4)				30450	7942	52 CYG	R	73	-8	00000?100
2645	20 43 48	-4 17.1	10	2.7	.8(.3)				489		W AQR		43	-27	010001000
2646	20 43 55	-1 4.6	9	2.2	-.1(.2)	-1.9(.3)	-2.8(.5)		490				46	-26	030003060
2648	20 44 14	33 47.3	10	1.9	-.1(.4)				30451	7949	EPS CYG		76	-6	00000+100
2649	20 44 18	61 38.9	14	1.3	1.1(.3)				60298	7957	ETA CEP		98	12	100011100
2650	20 44 34	39 56.6	9	1.1	-2.3(.3)	-5.7(.3)	-6.7(.5)	-7.2(.7)	40448		NML CYG		81	-2	700003707
2652	20 45 7	-5 11.3	9	2.2	-.4(.3)	-1.3(.4)			-10548	7951	EN AQR		42	-28	010003020
2653	20 45 14	45 22.5	15	1.6	1.2(.4)	-2.6(.4)			50341	7966	DO 38841		85	1	+00002100
2654	20 45 32	19 9.0	10	2.4	1.2(.3)				20484		V DEL		64	-15	000001000
2655	20 45 44	58 14.5	14	1.3	.8(.3)		-3.3(.5)		60299		DO 38857		95	9	100011500
2657	20 46 16	28 3.9	13	1.8	1.1(.3)	-.7(.4)			30454		SVS 5284		72	-10	000003170
2659	20 46 49	22 49.1	17	3.0	-.4(.3)				20486		FI VUL		68	-13	000001+00
2658	20 46 49	-0 44.5	10	2.6	-.1(.3)	-1.4(.3)			494		DO 7006		47	-26	030003070
2660	20 47 6	31 40.1	13	1.8	.9(.3)	-.4(.4)			30455		AM CYG		75	-8	000003177
2662	20 47 48	5 53.7	9	2.1	1.0(.3)	-.6(.4)			10479		DO 7021		53	-23	030001070
2663	20 48 2	49 56.4	14	1.6	.6(.3)				50345		GC 29061		89	4	100001+00
2665	20 48 34	-27 5.5	16	3.6	.2(.3)				-30437	7980	OME CAP		18	-37	000001000
2666	20 48 44	-11 16.0	9	2.2	1.1(.3)	-1.6(.5)			-10550				36	-32	010001020
2667	20 50 2	47 9.6	7	1.1	.3(.3)	-1.1(.4)			50347		RZ CYG		87	2	300003300
2658	20 50 16	80 22.5	52	1.2	1.2(.3)				80042	8016	SVS 102045		114	22	1001??100
2670	20 50 21	-12 33.5	11	2.8	.1(.3)	-2.1(.4)							35	-33	01000?020
2672	20 50 43	23 10.0	17	2.9	.2(.3)	-.8(.4)			20490		RX VUL		68	-13	000003+?0
2675	20 51 11	25 22.9	12	1.9	.9(.3)				30460		IN VUL		70	-12	000001100
2676	20 52 21	27 52.2	13	1.9	1.3(.3)				30462	8008	32 VUL		72	-11	000001100
2677	20 53 4	30 12.0	6	1.3	.5(.3)	-1.9(.4)	-3.9(.6)		30464		UX CYG		74	-9	000003364
2678	20 54 49	16 3.4	9	1.8	.6(.3)				20493		SVS 102047		63	-19	000001100
2679	20 54 55	37 13.0	19	2.2	.8(.3)	-.3(.4)						R	80	-5	000003???
2681	20 56 11	56 13.5	19	1.3	1.6(.3)								95	7	100??100
2682	20 56 18	44 35.4	15	1.6	.8(.3)				40458		DO 39057		86	-1	+00001100
2683	20 56 25	46 16.5	11	1.3	.9(.3)	-1.5(.3)	-3.5(.4)		50351		AZ CYG		87	0	700003300
2686	20 57 9	27 15.8	9	2.2	.3(.4)	-2.5(.3)	-3.1(.5)						73	-12	00000+360
4270	20 58 42	-74 15.6	60	3.9			-3.9(.4)						319	-35	000000040
2687	20 59 59	61 45.1	30	3.5	1.8(.3)								99	10	?00017?00
2689	21 0 16	36 30.0	6	1.5		-2.6(.4)	-6.0(.4)	-7.6(.6)					80	-6	000006677
2689	21 0 33	44 35.6	12	1.5	.5(.3)				40464	8062	DO 39142		86	-1	000001100
2690	21 0 48	82 52.7	65	1.6	1.4(.3)	-1.3(.4)	-3.5(.4)				X CEP	R	116	23	+3014++00
2691	21 0 51	35 39.4	18	2.3	.6(.3)						DO 19908		60	-7	000001?00
2694	21 1 18	23 48.3	17	2.4	-.5(.4)		-3.8(.5)		20501		DY VUL		70	-15	00000+5+0
2695	21 1 19	67 58.7	16	1.3		-1.4(.4)	-2.7(.4)				HZ CEP	R	104	14	6002+4200
2697	21 2 16	37 39.4	13	1.5	1.5(.3)		-2.5(.5)		40465				81	-6	000005107
2698	21 2 35	37 4.7	13	1.5	.4(.3)	-1.3(.3)			40466		GR CYG		81	-6	00000330?

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
2699	21 2 49	53 8.9	15	1.4	.9(.3)	-1.3(.3)							93	4	3000003300
2700	21 2 52	27 11.5	12	1.9	1.2(.3)				30469		SVS 5337		73	-13	0000011100
2702	21 3 18	-0 24.9	9	2.2	-.6(.3)	-2.4(.3)	-3.0(.4)		499		RV AQR		50	-30	0700002060
2703	21 3 24	43 43.6	21	1.9	-.3(.4)				40468	8079	XI CYG		86	-2	0000004100
2704	21 3 28	51 36.5	12	1.3	1.2(.4)	-1.6(.3)	-3.2(.5)		50357				92	3	3000003700
2707	21 4 18	-25 11.1	16	3.7	.3(.3)				-30441	8080	24 CAP		22	-40	0000011000
2708	21 4 23	-16 37.2	9	2.2	-.6(.3)	-2.3(.3)	-2.9(.4)		-20596		RS CAP		32	-37	0300017020
2709	21 4 36	47 27.4	16	1.7	.8(.3)				50359	8089	63 CYG		89	0	0000011C0
2712	21 4 56	-0 21.1	8	2.3	.6(.3)				500		DO 7188		50	-30	0100011000
2713	21 5 8	42 1.8	6	1.6		-2.1(.3)	-4.6(.4)				NGC 7027	R	85	-3	0000016604
2716	21 5 52	6 48.6	9	2.2	1.1(.3)	-1.6(.5)			10487	8090	DO 7197		57	-26	0100011020
2717	21 6 2	2 58.1	14	3.8	1.0(.3)				501		DO 7199		53	-28	0100014000
4271	21 8 26	-18 42.2	18	3.9			-3.7(.4)						30	-39	0?000?040
2719	21 8 39	47 27.6	13	1.5	.8(.3)	-.7(.5)			50363		DO 39269		89	-0	0000013100
2720	21 8 52	52 38.4	15	1.4	.9(.3)	-.9(.4)	-2.9(.5)		50362				93	3	1000017100
4272	21 8 53	54 18.9	26	2.3	1.4(.3)	•							94	4	1000017?00
2721	21 9 5	68 17.5	14	1.0	-2.0(.3)	-3.1(.3)	-3.9(.4)		70168	8113	T CEP		105	14	3007777?00
2722	21 9 53	-14 35.4	8	1.9	.2(.3)	-1.4(.3)			-10558		RX AQR		35	-38	0300011020
2723	21 10 34	30 .5	13	1.7	.7(.3)				30472	8115	ZET CYG		77	-12	0000011100
2725	21 11 27	59 53.3	16	1.5	-.2(.3)	-.6(.4)			60305		SVS 102073		99	8	1000+0300
2727	21 13 1	-15 22.0	9	2.2	.2(.3)		-2.2(.8)		-20598	8128	29 CAP		35	-39	0100011040
2728	21 13 36	-9 26.2	15	3.7	1.2(.3)				-10559		GC 29742		42	-36	0?00011000
2731	21 14 7	53 49.3	19	1.8	.9(.4)				50367		V702 CYG		95	4	0000011100
2735	21 15 13	40 49.4	14	1.5	1.9(.4)	-1.5(.4)			40477				85	-6	0000013207
2737	21 15 55	7 32.7	9	2.0	1.0(.3)				10491		RU EQU		59	-28	0100011C0
4273	21 16 1	-19 25.0	12	2.7			-3.1(.4)				SVS 5395		30	-41	0?00014040
2739	21 16 26	10 58.6	11	2.6	1.7(.3)				10492	8149			62	-26	0100011?00
2740	21 16 34	76 46.1	33	1.6	1.3(.3)		-2.6(.5)		80044	8168	DO 39444		112	19	410+11?00
2743	21 17 1	55 3.8	15	1.5	.9(.3)	-1.1(.4)			60309		DO 39414		96	4	0000013100
2745	21 17 26	63 22.0	17	1.3	1.5(.4)				60312		DO 39430		102	10	1001?1100
2746	21 17 28	60 58.3	15	1.5	.9(.3)				60311		GC 29843		100	8	10001+100
2747	21 17 36	50 35.1	17	1.7	1.4(.3)				50372				93	1	0000011100
2748	21 17 43	58 24.7	14	1.4	.5(.3)				60313	8164	DO 39440		98	6	1000111100
2750	21 18 18	55 14.6	16	1.8	.2(.3)				60315		FZ CEP		96	4	0000011100
2751	21 18 41	7 8.2	8	1.9	1.2(.3)				10494	8163	9 EQU		59	-29	0100011100
2752	21 18 42	49 7.8	17	1.7	.7(.3)				50374		DO 39448		92	-0	0000011100
2753	21 20 1	-22 56.7	15	3.7	1.2(.3)				-20600	8172	GC 29923		26	-43	0003011000
2754	21 20 7	21 47.4	12	2.0	1.2(.3)				20506		SW PEG		72	-20	0000011100
2755	21 20 32	42 9.6	10	1.6	1.0(.4)				40478		YY CYG		87	-5	0000010100
2756	21 20 45	23 14.9	17	2.3	1.4(.4)	-.7(.4)			20507		BM PEG		73	-19	0000013?20
2757	21 20 54	77 38.5	28	1.1	1.0(.3)	-.8(.3)	-4.0(.5)		80045		GH CEP		113	19	1101334?00
2759	21 20 57	40 42.8	20	1.9	-.8(.4)				40479		V1070 CYG		86	-7	0000010100
2761	21 22 46	79 34.0	59	1.4	1.3(.3)				80047		DO 39574		114	21	1001?1?00
2764	21 23 52	-22 37.1	15	3.7	1.2(.3)				-20602	8204	ZET CAP		27	-44	0000011000
2765	21 24 13	62 22.1	16	1.3	1.1(.4)	-1.4(.4)			60317		SW CEP		102	9	2003?1300
4274	21 25 34	10 15.8	11	2.3			-3.6(.4)	-6.7(.6)					63	-28	0?0007450
2767	21 26 1	59 31.9	18	1.6	.6(.3)				60318	8224	GC 30065		100	6	0000+1100
4275	21 26 17	-2 58.1	14	3.7	1.3(.3)								51	-36	0100017?00
2769	21 26 39	21 57.7	9	1.7	-.5(.3)	-.2(.8)			20511	8223	SVS 102104		73	-21	0000011120
2768	21 26 40	70 .0	20	1.1	.5(.3)	-1.3(.3)			70170		AX CEP		107	14	1001?1300

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
2771	21 27 3	71 35.6	19	1.1	1.1(.4)	-1.3(.3)	-2.9(.6)		70171				108	15	300153300
2772	21 27 42	23 24.3	17	2.3	.2(.4)				20512	8225	2 PEG		74	-20	000000100
2775	21 28 36	10 55.8	7	1.5	.0(.3)	-2.3(.3)	-3.3(.4)		10498		UU PEG		64	-28	070007360
2776	21 28 49	-5 48.7	10	2.6	.8(.3)				-10565	8232	BFT AQR		48	-38	010001000
4276	21 29 34	-27 47.6	19	3.5			-3.6(.4)						20	-46	000002040
2777	21 29 39	60 39.6	21	2.3	1.4(.3)								101	7	000113700
4277	21 29 43	-57 3.5	30	3.3			-4.0(.4)						338	-44	000000040
4278	21 30 16	-56 46.5	30	3.2			-4.2(.4)						339	-44	000000040
2779	21 31 15	54 4.9	19	2.0	.2(.3)	-1.2(.4)			50383				97	2	000003100
2781	21 32 3	38 49.8	19	2.0	-.2(.4)	-2.0(.4)			40485		V1426 CYG	R	86	-9	000000307
2782	21 32 14	1 37.2	9	2.2	-.0(.2)	-.7(.4)			504		DO 7488		56	-35	010003+70
2784	21 34 15	31 52.3	18	2.1	.9(.4)				30476		AB CYG		82	-15	000003100
4279	21 36 15	-36 29.6	20	3.1		-2.6(.4)							8	-49	000000020
2785	21 36 21	78 23.6	27	1.1	-1.6(.3)	-2.9(.3)	-3.4(.4)		80048		S CEP		114	19	730773300
4280	21 37 24	-36 16.6	20	3.1			-3.8(.4)						8	-49	000003040
2787	21 37 40	-1 59.2	9	2.0	.4(.3)	-2.1(.6)			507		DO 7540		54	-38	030002140
4281	21 37 41	-54 46.3	28	3.0		-2.7(.4)							341	-46	000000020
4282	21 37 57	-34 47.0	13	2.5			-3.1(.4)		-30490E		GC 30352		10	-49	000004040
2788	21 38 10	43 3.1	10	1.7	.6(.4)				40488	8284	75 CYG		90	-7	000000100
2789	21 38 23	50 1.2	23	1.7		-1.4(.4)					V645 CYG		95	-2	000003200
2790	21 38 57	54 6.1	15	1.5	-.8(.3)	-2.2(.4)	-3.3(.5)		50390		RU CYG		97	1	000007300
4283	21 39 32	-45 50.7	21	2.5		-2.7(.4)							354	-49	000000020
2792	21 39 43	5 25.7	7	1.6	.8(.3)		-3.2(.5)		10502	8289	7 PEG		61	-34	010001140
2793	21 39 47	35 16.0	18	2.1	-.4(.4)				40489	8297	V460 CYG		85	-13	000000100
2794	21 39 52	45 32.2	21	1.7	-.0(.4)				50392	8298	V1339 CYG		92	-5	000000100
2795	21 40 12	54 37.0	15	1.5	.9(.3)	-1.1(.4)			50393		SVS 8682		98	1	000003100
2796	21 40 49	40 55.4	20	1.8	1.2(.4)				40490	8306	SVS 8683		89	-9	000000100
2798	21 41 20	37 47.2	19	2.0	-.4(.4)	-1.3(.4)			40491		RV CYG,EO		87	-11	000000307
4284	21 41 21	-50 28.5	24	2.7		-2.7(.4)							347	-48	000000020
2799	21 41 42	76 9.2	24	1.2	.7(.3)	-1.1(.4)	-3.3(.4)		80049		AM CEP		112	18	130513300
2800	21 41 45	9 39.3	9	2.0	-1.1(.3)	-1.6(.3)			10503	8308	EPS PEG		66	-31	030003+0
2802	21 42 11	56 32.7	15	1.6	-2.4(.3)	-4.0(.3)	-4.7(.4)		60325	8316	MUU CEP		101	4	000707700
2803	21 42 16	-9 19.1	11	2.4	1.4(.3)				-10569	8311	46 CAP		46	-42	010002100
2804	21 42 49	12 27.8	9	1.9	.5(.3)	-2.4(.5)			10504		TU PEG		68	-30	010002+0
4285	21 43 42	-9 31.7	14	3.8	.9(.3)				-10570	8318	AG CAP		46	-43	010002700
2805	21 43 47	73 24.3	21	1.1	-.5(.3)	-1.8(.3)			70177		SVS 5471		111	15	130233300
2806	21 44 1	-2 26.1	5	1.4	-1.9(.3)	-3.1(.3)	-4.2(.4)		509		SVS 5468		54	-39	030007760
2807	21 44 55	57 50.7	17	1.7	1.5(.3)				60327		DO 40105		100	4	000101100
2808	21 45 40	64 21.9	17	1.4	.4(.3)	-1.9(.4)	-3.4(.5)		60326		RT CEP,EO		105	6	000337300
2810	21 47 18	61 1.9	21	2.2	1.5(.3)				60330	8347	GC 30571		103	6	000113700
2811	21 47 27	52 11.6	12	1.8	1.1(.4)				50401				97	-1	000000100
2812	21 50 1	21 1.7	12	2.2	.4(.3)	-1.0(.4)			20521	8350	SVS 8696		77	-25	030000370
2813	21 50 35	55 44.3	19	1.7	1.4(.3)				60331		IQ CEP		100	1	000100100
2815	21 52 57	51 14.4	14	1.6	1.4(.3)	-.8(.4)	-3.7(.5)		50405		BQ CYG		97	-2	000100700
2816	21 53 3	54 14.8	27	2.6	1.1(.3)				50408		V413 CYG		99	0	000100700
2817	21 53 11	50 14.1	11	1.8	.9(.4)				50409		LW CYG		97	-3	000+00100
2818	21 53 58	22 37.7	9	2.0	1.2(.4)	-1.1(.4)			20523		RX PEG		78	-25	000000370
2819	21 54 26	-14 20.6	11	2.5	.4(.4)	-1.5(.5)			-10573		SVS 5490		42	-47	0+0002170
2820	21 54 57	17 32.0	12	2.2	1.4(.3)				20525		DO 21036		75	-28	010000100
2821	21 55 15	63 23.4	16	1.4	-.6(.3)	-.8(.3)	-4.3(.5)		60333	8383	VV CEP		105	7	000113500

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
2822	21 55 26	80 4.1	36	1.3	.8(.3)	-1.1(.4)			80052		DO 40561		116	20	130112300
2823	21 55 44	-21 30.0	15	3.9	.7(.3)				-20612	8378	GC 30746		32	-50	000001000
2824	21 55 50	22 26.1	17	2.4	.6(.4)								79	-24	000000100
2825	21 56 10	56 29.7	20	1.7	.8(.4)	-1.7(.3)			60334		SVS 5494		101	2	000000300
2826	21 56 48	54 19.4	15	1.4	1.7(.4)				50412		DO 40493		100	-0	000100100
2827	21 57 27	62 27.0	24	1.7	.8(.3)				60335	8388	DO 40532		105	6	0001++100
2828	21 57 30	23 42.0	12	2.1	-.5(.3)	-1.2(.4)			20526		SVS 5496		80	-24	030000??0
2831	21 59 8	33 28.7	18	2.0	-.4(.4)								87	-17	000000100
2833	21 59 56	56 42.5	28	2.5	1.2(.3)				60337		YY CEP		101	1	000100?00
2832	21 59 56	48 29.3	13	1.4	.1(.3)	-1.2(.3)			50415		GY CYG		96	-5	000300300
2835	22 0 23	-0 8.3	11	2.3	1.4(.3)				511				60	-41	010002100
2836	22 0 28	-31 39.9	15	3.9	.3(.3)				-30449		TT PSA	R	16	-53	000001000
2837	22 1 43	28 7.1	10	1.9	-.8(.3)	-2.0(.3)			30481		TW PEG		84	-22	030000300
2839	22 2 23	62 53.7	16	1.6	-.1(.3)				60338	8416	MO CEP		105	6	000111100
2842	22 3 10	46 29.4	16	1.6	.7(.3)				50417	8421	HT LAC		96	-7	000100100
2843	22 3 11	4 49.0	8	1.9	.9(.3)				512	8413	NUU PEG		65	-39	010001100
2844	22 3 17	-0 34.2	9	2.1	.5(.3)	-1.1(.5)			513	8414	ALF AQR		60	-42	0+0001120
2845	22 3 24	35 6.0	8	1.7	-1.1(.3)	-2.6(.4)	-2.6(.6)		40501		SV PEG		89	-16	030000306
2847	22 3 59	62 49.5	20	1.8	1.2(.4)				60340		DO 40716		105	6	0001+1100
2848	22 4 8	62 14.8	24	1.7	1.4(.4)				60341		TT CEP		105	6	000122100
2851	22 4 48	11 38.2	9	1.9	1.0(.3)	-1.3(.4)			10510		SVS 102147		72	-34	030000320
4286	22 5 8	59 14.5	29	3.7	1.2(.4)	-.7(.4)			60342		DO 40745		103	3	000+03?00
2852	22 5 26	-36 19.6	15	3.9	.7(.3)				-30497E	8433	UPS PSA		11	-54	000001000
4287	22 5 41	-50 10.2	23	2.1			-3.1(.4)						345	-52	000000040
2854	22 6 21	12 18.0	11	2.3	1.4(.3)				10511		T PEG		73	-34	010000100
2855	22 6 23	74 30.3	23	1.4	1.4(.4)				70183		DO 40856		113	15	010111100
2856	22 6 23	49 30.9	17	1.6	1.4(.5)				50421	8445	DO 40803		98	-5	.000100100
2857	22 6 38	59 18.1	17	1.7	1.5(.4)	-1.5(.4)			60343		AZ CEP		104	3	000103100
2859	22 7 5	72 31.4	25	1.7	.7(.3)				70184		DM CEP		111	14	010111+00
2862	22 8 13	11 23.7	11	2.3	1.3(.4)				10513	8458	DO 7747		72	-35	010000100
2864	22 9 2	57 57.6	16	1.5	-.3(.3)	-.5(.4)			60344	8465	ZET CEP		103	2	000100300
2865	22 9 34	56 46.9	16	1.5	.9(.3)	-1.7(.3)	-3.3(.4)		60345		CU CEP		102	1	000?00200
2866	22 9 44	14 17.1	8	1.7	.6(.3)	-1.5(.3)	-3.1(.5)		10514		RS PEG		75	-33	030000140
2867	22 10 40	63 2.8	16	1.6	.7(.3)				60347	8483	DO 40954		106	6	000111100
2868	22 11 31	25 10.7	17	2.3	1.3(.4)				30488		GK PEG		84	-25	000000100
2869	22 11 40	39 28.2	11	1.6	.8(.3)				40506	8485	SVS 102156		93	-14	010000100
2872	22 12 20	57 45.0	21	1.7	.4(.3)		-3.0(.5)		60348		DO 40997		103	1	000500100
4288	22 13 44	-80 41.1	100	3.2		-2.0(.4)				8481	EPS OCT		310	-34	000000020
2875	22 13 45	37 29.6	11	1.4	.7(.3)				40507	8498	1 LAC		92	-16	010000100
2879	22 15 39	2 27.6	10	2.5	1.5(.3)		-2.4(.5)		516		UW PEG		66	-43	010005??0
2880	22 16 1	13 21.2	11	2.2	1.0(.3)				10515		TX PEG		76	-35	010000100
2881	22 16 36	43 31.0	12	1.6	1.3(.3)	-.9(.3)							96	-11	000300300
2884	22 17 29	63 3.3	11	1.4	1.2(.3)	-2.1(.3)	-5.0(.4)				SHARP. 140		107	5	000767600
2885	22 17 41	59 35.4	17	1.6	.2(.4)	-2.3(.3)	-4.1(.4)						105	2	000700700
2887	22 18 27	61 54.7	17	1.7	.9(.3)	-.9(.4)			60351		DO 41170		106	4	000103100
2888	22 18 42	26 41.0	10	2.2	1.0(.3)		*		30490	8517	SVS 102166		86	-25	010000?00
2889	22 19 0	-7 52.1	7	1.7	.2(.3)	-1.2(.4)			-10580	.	DZ AQR		55	-50	010003320
2891	22 19 23	45 23.6	15	1.6	1.1(.3)				50427		FW LAC		97	-10	000100100
4289	22 19 48	-46 10.3	22	2.5		-3.6(.4)	-4.4(.4)			8524	PI GRU		350	-55	000000060
4290	22 20 37	-2 46.0	9	2.2	1.5(.4)	-.9(.4)							61	-47	020003?20

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
2893	22 20 37	-22 17.5	11	2.6	1.2(.3)				-20618		RT AQR		33	-56	000001100
2895	22 21 30	31 .6	10	1.6	6(.3)				30491		DO 21445		89	-22	010000100
2896	22 21 38	55 42.3	19	1.7	1 2(.4)	-1.4(.3)	-3.5(.5)		60353		RW CEP		103	-1	000300700
2900	22 23 13	30 13.0	17	2.0	1.3(.4)	-1.7(.4)			30492		RV PEG	R	89	-23	000000300
2901	22 24 4	60 4.5	18	1.4	.8(.3)	-2.0(.3)	-3.0(.4)						106	2	030700300
2904	22 24 36	45 8.6	16	1.8	1.4(.3)				50430		DO 41372		98	-10	010100?00
2908	22 26 5	35 16.2	11	1.8	1.3(.3)				40511		DO 21501		93	-19	010+00100
2910	22 26 36	58 58.1	17	1.4	1.1(.3)	-1.1(.4)			60355		DO 41440		106	1	010300200
2911	22 26 49	8 53.5	16	2.9	1.4(.4)				10518	8562	36 PEG	R	74	-40	0?0000100
2912	22 26 52	49 52.2	17	1.6	1.1(.4)				50432		DO 41442		101	-7	010+00100
2913	22 27 20	47 26.3	13	1.4	-.1(.3)				50433	8572	5 LAC		100	-9	010100100
2916	22 28 20	56 44.7	16	1.3	.9(.3)	-1.0(.5)			60357		ST CEP		105	-1	010100200
2918	22 30 19	52 57.7	15	1.3	1.0(.3)				50435		DO 41530		103	-4	010100100
2919	22 30 37	55 10.5	13	1.3	.7(.3)	-1.2(.4)			60359		NY LAC		104	-2	010300100
2921	22 31 39	24 16.7	12	2.0	.4(.3)	-.3(.5)			20532		SS PEG		87	-29	010000300
2922	22 31 45	58 38.5	17	1.3	.7(.4)	-1.7(.4)	-4.0(.6)		60361		DO 41575		106	1	030300700
2924	22 34 9	-9 .7	15	3.2	.8(.4)								57	-53	000007100
2925	22 34 25	58 10.2	17	1.3	1.2(.3)	-1.5(.3)			60362		W CEP		106	0	010300100
4291	22 36 26	77 21.2	67	1.8	1.6(.3)				80054		DO 41700		116	17	0001???00
2928	22 36 28	56 32.0	16	1.3	-.5(.3)	-.4(.4)			60363	8621	SVS 102195		105	-1	010300100
2929	22 36 50	75 6.0	27	1.7	1.6(.3)	-1.9(.4)			80055	8625	DO 41729		115	15	01012++00
2931	22 37 56	40 24.5	14	1.7	1.5(.3)				40515		DO 41747		98	-16	000100100
2932	22 38 29	49 45.3	12	1.4	1.1(.3)				50440		GI LAC		102	-8	010100100
2934	22 39 20	20 55.3	17	2.6	1.3(.4)	-.7(.4)			20534		BC PEG		87	-32	0?0000300
2935	22 39 22	-5 23.4	11	2.6	.6(.3)				-10585		GC 31678		63	-52	000001100
4292	22 39 34	-47 9.2	12	2.3		-3.6(.4)	-3.8(.4)			8536	BET GRU		346	-58	000000060
2936	22 39 38	42 16.2	12	1.5	1.5(.4)				40518		DO 41783		99	-14	010100100
2938	22 40 31	29 57.2	9	1.4	.6(.3)				30499	8650	ETA PEG	R	92	-25	010100100
2939	22 40 31	13 18.5	16	2.9	.8(.4)								81	-39	0?0000100
2940	22 40 32	27 54.8	12	1.9	.8(.3)				30498		BD PEG		91	-27	010+00100
2941	22 40 55	59 30.3	17	1.7	1.1(.3)	-1.5(.3)			60364		SVS 5604		107	1	000300100
2942	22 40 55	-19 5.4	9	2.0	.9(.3)				-20620	8649	66 AQR		42	-60	000001100
2943	22 40 58	22 55.8	12	2.1	1.3(.3)				20535		BE PEG		88	-31	010000100
2946	22 41 54	23 19.8	10	1.6	1.5(.4)				30500		DO 21711		92	-26	010100100
2948	22 42 19	61 26.9	23	1.8	1.2(.3)				60365		DG CEP		108	2	000100100
2949	22 42 38	74 32.6	31	1.7	1.2(.3)	-1.0(.3)							115	14	03013??00
2957	22 45 38	54 53.1	13	1.3	.7(.3)	-1.6(.3)	-3.1(.5)		50446		U LAC		106	-4	030200700
2960	22 46 42	27 5.6	9	1.4	.6(.3)	-.9(.4)			30502		ST PEG		92	-28	030100100
2961	22 46 48	-14 25.1	15	3.3	.9(.4)								51	-59	000007100
2962	22 46 59	-13 50.0	7	1.5	-.1(.3)	-.7(.4)	-2.7(.5)		-10587	8679	TAU AQR		52	-59	000003140
2963	22 47 23	59 40.5	17	1.4		-.9(.4)	-3.2(.5)				SHARP. 146	R	108	1	040400600
2964	22 47 24	55 39.4	16	1.4	1.6(.4)				60368	8688	GC 31854		106	-3	010100100
2965	22 47 34	40 47.0	8	1.2	-.8(.3)	-1.3(.4)			40522		RX LAC		100	-16	03030030?
2966	22 47 44	24 20.7	12	2.0	1.0(.3)				20537	8684	MUU PEG		91	-31	010+00100
2967	22 47 53	65 56.0	14	1.3	.9(.3)		-3.2(.5)		70190	8694	IOT CEP		111	6	010115500
2968	22 48 4	60 1.5	17	1.4	1.5(.3)	-1.6(.3)	-3.6(.4)		60370		DO 42062		108	1	060700200
2969	22 48 51	61 31.4	31	1.9	1.2(.3)				60372		SVS 5623		109	2	000100?00
2970	22 48 55	17 50.9	12	2.1	.9(.3)				20538		AF PEG		87	-36	010000100
2971	22 49 4	64 0.0	17	1.4	1.0(.3)	-.8(.4)			60371		VX CEP		110	4	010303300
2974	22 49 29	-25 33.1	9	2.1	1.1(.3)	-1.5(.4)	-4.3(.5)		-30455		TU PSA		30	-63	0000035+0

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
2976	22 49 42	43 2.1	12	1.5	.5(.4)				40523	8699	15 LAC		101	-14	010100100
2977	22 49 57	-7 51.2	9	2.1	-.4(.4)	-1.3(.4)			-10588	8698	LAM AQR		32	-56	000001320
2982	22 51 19	61 1.3	18	1.4	1.3(.3)	-1.2(.3)			60374		DO 42141		109	2	030300300
2984	22 51 44	8 37.7	9	1.9	.6(.3)	-1.8(.4)			10523		DO 7912		81	-44	030000320
2985	22 51 54	66 0.0	15	1.7	.7(.3)	-1.2(.3)							111	6	000311300
2986	22 52 11	16 40.2	10	1.8	.5(.3)		-4.7(.5)		20539	8714	DO 21868		87	-38	010000500
2989	22 52 33	-29 51.8	9	1.7	-.9(.3)	-2.3(.3)	-3.3(.4)		-30456		V PSA		21	-64	000007360
2987	22 52 33	60 33.6	13	1.1	.7(.3)	-1.6(.3)			60375		MY CEP	R	109	1	010300300
2988	22 52 37	84 49.0	71	1.2	.5(.3)	-.7(.4)	-2.0(.5)				AR CEP		120	23	11073+100
4293	22 54 3	-57 39.6	28	2.0		-1.8(.4)					GC 31985		329	-54	000000020
2991	22 54 13	58 15.8	17	1.8		-.8(.4)					SHARP. 149		108	-1	000200200
2992	22 54 21	49 27.2	14	1.5	.6(.3)	-.5(.5)			50452	8726	SVS 102221		105	-9	010100300
2993	22 54 21	-20 36.4	10	2.6	1.8(.4)	-1.5(.4)	-4.9(.5)		-20624		S AQR		41	-63	0000017+0
2995	22 54 53	-29 50.2	12	3.9	.7(.3)				-30458	8728	ALF PSA		21	-65	000001+00
4294	22 55 21	84 6.4	60	1.3	1.2(.4)		-4.0(.6)			8748	GC 31999		120	22	11011+400
2999	22 55 29	58 34.3	21	1.9	1.5(.4)	-2.1(.3)	-3.3(.4)						109	-1	000?00300
3000	22 55 31	62 21.5	19	1.8	1.6(.3)	-1.3(.4)	-3.4(.4)				SHARP. 155	R	110	3	000700200
3001	22 55 39	21 13.3	12	2.0	1.6(.4)	-1.0(.4)			20543		DO 21915		91	-34	010+00300
3004	22 56 19	58 31.1	17	1.4		-1.5(.4)	-3.2(.4)				SHARP. 152		109	-1	060000200
3005	22 56 59	-13 23.0	10	2.7	1.4(.3)				-10590	8741	GC 32038		56	-60	000001100
3006	22 57 51	56 40.7	16	1.5	.7(.3)				60379	8752	V509 CAS		108	-3	010100100
3007	22 57 54	35 38.4	13	1.7	1.1(.4)				40527		DO 21951		99	-22	0+0100100
3008	22 58 22	0 11.9	16	3.2	1.0(.4)							R	75	-52	0000C0100
3010	22 58 41	46 14.0	13	1.5	.7(.3)	-.7(.4)			50454		BC AND.EO		104	-12	030100100
3011	22 58 47	64 2.8	16	1.4	.9(.3)	-1.4(.3)	-3.4(.4)						111	4	030307100
3012	22 59 8	32 20.6	10	1.5	.6(.3)	-.9(.4)			30503		DO 21968		98	-25	0101C030?
3013	22 59 10	61 17.6	18	1.4	.8(.3)	-.6(.4)			60381		DO 42369		110	1	010300100
4295	22 59 35	10 19.2	11	2.3	1.3(.5)	-1.3(.4)	-3.3(.5)		10525				84	-44	0+0000350
3015	22 59 35	45 37.3	16	1.8	1.6(.3)				50455		VY AND		104	-13	010100?00
3015	23 0 0	59 32.1	17	1.4	1.4(.4)	-1.1(.3)			60382		AS CEP		110	-0	010300103
3017	23 1 18	27 48.5	9	1.6	-2.5(.3)	-2.6(.3)			30504	8775	BET PEG		96	-29	030300300
3018	23 1 29	37 34.9	11	1.6	.5(.3)	-1.2(.3)			40528		CF AND		101	-20	03010030?
3019	23 2 39	-22 44.6	10	2.6	1.4(.3)				-20627		ER AQR		38	-66	000001100
3020	23 2 41	56 52.3	27	1.9	1.4(.3)							R	109	-3	000100?00
3022	23 3 26	60 0.0	29	1.6		-1.5(.3)	-3.7(.4)				SHARP. 156		110	0	000600?00
3023	23 4 6	10 15.5	11	2.3	-.2(.3)	-1.4(.4)			10527		R PEG		85	-45	030000?00
3024	23 4 28	9 7.4	8	1.8	.6(.3)		-1.9(.6)		10528	8795	55 PEG		85	-46	010000140
3026	23 4 39	25 11.4	9	1.4	1.4(.3)				30506	8796	56 PEG		95	-32	010100100
3029	23 6 26	-30 24.0	9	2.1	-.1(.3)	-1.5(.4)			-30465		Y SCL		19	-67	000001320
3030	23 6 50	-21 23.7	11	3.9	3(.3)				-20629	8812	88 AQR		42	-66	000001+00
3031	23 6 58	8 23.9	9	1.9	-.6(.3)	-1.2(.4)			10529	8815	GZ PEG		85	-47	030000320
3033	23 7 21	-40 51.8	12	3.9	.6(.3)				-40330E	8818	GC 32264		354	-65	000001000
3034	23 7 40	33 29.9	9	1.6	-.4(.3)	-.7(.4)			30507		DO 22065		100	-25	01030010?
3039	23 8 37	4 42.9	11	2.4	-.3(.3)				527		DO 7959		82	-50	010000100
3041	23 9 9	52 37.2	13	1.4	.5(.3)	-.7(.4)			50459		SS AND		108	-7	030100100
3042	23 9 14	48 43.6	14	1.5	1.2(.3)				50460		ES AND		107	-11	010100100
3044	23 9 33	59 24.6	15	1.5	.3(.3)	-.7(.4)			60389		V CAS		111	-1	030300100
3045	23 10 21	63 41.7	19	1.4	.6(.3)	-.7(.4)			60390		CK CEP.EO		112	3	010300100
3046	23 11 0	66 46.9	15	1.7	1.5(.3)	-2.1(.4)			70193		DO 42709		114	6	000131100
3048	23 11 33	61 12.5	13	1.2	1.5(.4)	-3.0(.3)	-6.4(.4)				NGC 7538		112	1	020700700

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
3049	23 11 40	-6 20.8	13	4.1	-.2(.3)				-10593	8834	PHI AQR		71	-59	000001+00
3051	23 12 16	40 30.8	12	1.6	1.1(.4)	-1.5(.4)			40531		TY AND		104	-18	01C100307
3052	23 13 0	63 55.2	19	2.0	1.4(.3)				60392		DO 42753		113	3	010+00100
3053	23 13 20	60 50.1	16	1.2		-1.4(.4)	-4.1(.4)		60394		SHARP. 159		112	0	020600200
3054	23 13 22	-9 19.4	10	2.7	1.4(.3)				-10596	8841	PSI1 AQR		67	-61	000001100
3056	23 13 51	62 4.0	19	1.5	1.1(.3)	-.7(.4)			60393		DO 42787		112	1	030100100
3057	23 13 53	59 45.7	15	1.4	1.8(.4)	-.3(.5)	-3.3(.4)				SHARP. 157		111	-1	070600200
3059	23 14 15	10 18.3	7	1.7	.1(.3)	-1.1(.4)			10531		EO PEG		88	-46	030+00100
3058	23 14 17	-8 1.3	8	2.1	-.7(.3)	-.5(.6)			-10597	8850	CHI AQR		69	-60	000003120
3061	23 14 34	60 9.6	21	1.3	1.7(.3)	-1.0(.4)			60395				112	-0	010300?00
3062	23 14 36	3 1.1	16	3.4	.7(.4)				528	8852	GAM PSC		82	-52	000000100
3064	23 15 13	40 35.1	15	1.9	1.2(.3)				40533		DO 42841		104	-19	010100?00
3065	23 15 21	48 44.2	12	1.5	.1(.3)	-.6(.5)			50462	8860	8 AND		108	-11	010100300
3066	23 16 1	-32 52.1	10	2.7	1.0(.3)				-30468	8863	GAM SCL		12	-69	000001100
3067	23 16 27	82 45.7	77	2.4	1.2(.3)						AN CEP		120	21	0?011+?00
3068	23 16 41	16 54.6	9	2.0		-3.3(.3)	-5.0(.4)						94	-40	020600200
3073	23 17 15	62 28.9	19	1.5	.5(.3)				60397		SVS 5702		113	2	010100100
3074	23 17 23	48 23.0	14	1.6	.6(.3)				50463	8874	11 AND		108	-11	010100100
3075	23 17 25	26 0.0	7	1.3	-1.0(.2)	-2.2(.3)	-3.6(.4)		30509		W PEG		99	-32	030700200
3076	23 17 52	8 36.6	11	2.4	.7(.3)				10533		S PEG		88	-48	010000100
3078	23 18 12	30 8.9	13	2.1	1.4(.3)				30510	8882	63 PEG		101	-28	010100?00
3079	23 18 25	60 53.7	22	2.0		-.1(.5)	-4.1(.4)				MP CAS	R	112	0	0?0600400
3082	23 19 32	-10 43.9	12	4.0	1.2(.3)								67	-63	000001?00
3083	23 20 6	-11 7.4	15	3.6	.0(.4)	-.7(.4)			-10598		SV AQR		67	-64	00000+3?0
3085	23 20 12	59 1.9	17	1.5	.7(.3)	-1.0(.4)			60402		V398 CAS		112	-2	030100200
3097	23 20 16	59 50.5	15	1.2	1.3(.3)	-.5(.5)			60401	8894	DO 42962		112	-1	020100100
3086	23 20 16	-20 24.1	9	2.7	1.1(.3)				-20633	8892	98 AQR		47	-69	000001100
3088	23 21 16	39 26.3	12	1.6	-.1(.3)	-1.0(.3)			40536		BU AND		105	-20	03030010?
4296	23 21 23	-45 21.7	23	2.8		-2.2(.4)	-3.5(.4)		-40334E		SVS 5712		341	-65	000000060
3089	23 21 47	3 23.8	16	3.4	.9(.4)				530		DO 7994		85	-53	000000100
3090	23 21 51	-2 6.5	16	3.6	1.0(.4)								80	-57	000000100
3091	23 22 18	62 .9	19	1.5	.4(.3)	-.3(.5)			60404	8904	4 CAS		113	1	030100100
3093	23 23 18	-20 56.9	8	2.1	1.1(.3)	-1.3(.5)			-20635	8906	99 AQR		47	-69	000001120
3094	23 23 28	52 42.7	14	1.4	1.2(.3)				50464		DO 43042		110	-8	010100?00
4297	23 24 12	27 18.6	17	3.1	1.1(.3)								101	-32	010?00?00
3099	23 25 45	10 38.4	9	1.9	1.1(.3)	-2.0(.3)	-3.8(.4)						92	-47	020700300
4298	23 26 40	11 16.2	16	3.5	1.0(.3)								93	-46	010?00?00
3101	23 26 52	38 21.6	14	1.7	1.3(.4)				40538		DO 22260		106	-21	0+0100100
3104	23 26 54	51 26.5	13	1.6	1.3(.3)	-.4(.5)			50466		DO 43142		110	-9	010100200
3102	23 26 59	50 57.2	17	1.6	1.6(.3)				50465		SVS 8858		110	-10	010100?00
3107	23 27 36	59 9.2	21	2.0	1.2(.3)				60408		DO 43171		113	-2	0?0100100
3109	23 27 51	60 0.0	18	1.5	.5(.3)	-1.8(.3)	-3.9(.5)		60409		DO 43188		113	-1	030700700
3110	23 28 16	57 42.3	17	1.5	1.3(.3)	-1.5(.4)			60410		V358 CAS		112	-3	030300200
4299	23 28 53	59 57.0	22	2.1	.9(.3)	-1.6(.3)			60411		DO 43188		113	-1	030+00200
3111	23 30 20	31 57.0	19	2.7	1.5(.3)								104	-28	0?0100000
3112	23 30 21	45 51.1	13	1.6	1.4(.3)	-1.0(.4)	-4.9(.5)		50468		DO 43251		109	-15	030100500
3113	23 30 49	22 13.5	12	2.2	-.4(.3)	-1.2(.4)			20550	8940	71 PEG		100	-37	030100000
3114	23 31 16	31 4.0	10	1.8	1.4(.3)				30513	8943	SVS 103124		104	-29	010100000
3115	23 31 29	20 34.1	10	1.9	.9(.3)	-1.3(.4)			20551	8942	DO 22300		100	-38	030100000
3116	23 31 59	43 15.9	12	1.5	-.3(.3)	-3.5(.3)	-4.6(.4)		40540				108	-17	030600700

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
3118	23 32 23	-5 34.5	16	3.7	.2(.4)								80	-62	000000100
3119	23 32 33	2 49.9	17	3.6			-4.4(.5)						89	-55	000000400
3120	23 33 24	24 15.8	10	2.1	1.2(.3)				20552	8953	GC 32814		102	-35	0+0100000
3122	23 34 58	46 13.0	13	1.6	1.1(.3)				50471	8961	LAM AND		110	-14	010100100
3123	23 35 6	-5 .4	16	3.7	.3(.4)								82	-62	000000100
3124	23 36 0	61 38.0	23	1.5	1.3(.3)				60415				114	0	010100?00
3125	23 36 36	51 58.4	13	1.5	-.5(.3)	-1.7(.3)	-3.4(.4)		50474		SV CAS		112	-9	030700300
3126	23 37 1	32 3.4	13	2.0	.6(.3)	-1.2(.4)			30515		SVS 8872		106	-28	05010000?
3127	23 37 10	77 20.4	25	1.4	.7(.3)	-.7(.4)			80057	8974	GAM CEP		119	15	010113100
3128	23 38 18	70 7.2	27	2.7	1.5(.3)				70199		DO 43444		117	8	0?0??1100
4300	23 38 30	44 32.8	21	2.1	1.6(.3)				40542				110	-16	0?0100?00
3131	23 39 47	18 10.0	17	3.1	1.3(.3)						DO 22382		101	-41	0?0100000
3133	23 39 56	64 14.0	20	1.6	1.2(.3)				60416	8989	GC 32927		116	3	010100100
3135	23 40 45	10 2.4	11	2.1	.3(.3)				10540	8991	77 PEG		97	-49	000100100
3136	23 41 10	-15 34.4	7	1.9	-1.9(.5)	-3.8(.3)	-4.4(.4)		-20642	8992	R AQR		66	-70	000003760
3138	23 41 40	61 30.1	14	1.3	.1(.3)	-2.6(.3)	-3.9(.4)		60417		PZ CAS		115	-0	030700700
3139	23 41 46	55 30.5	19	1.6	1.6(.3)								114	-6	010100?00
3140	23 42 3	41 47.1	12	1.8	1.3(.3)	-.9(.4)			40544		SVS 8878		110	-19	010300000
3141	23 42 10	56 17.4	20	2.1	.5(.3)	-.8(.4)			60418		Z CAS		114	-5	0+0300100
3143	23 42 33	43 38.2	12	1.5	1.0(.3)	-1.4(.4)			40545		EY AND		110	-17	010300000
3144	23 43 6	41 6.0	20	2.2	1.5(.3)								110	-20	0?0100000
3145	23 43 23	60 12.1	22	1.6	1.2(.3)				60421		GC 32991		115	-1	010100?00
3147	23 43 48	3 11.3	9	2.1	-1.1(.3)	-1.7(.3)			532	9004	19 PSC		93	-56	000300300
3148	23 43 54	54 13.0	15	1.7	.8(.3)	-.9(.4)			50478		RT CAS		113	-7	010300100
4301	23 44 13	58 22.0	29	2.2	1.4(.3)				60423	9008	TAU CAS	R	115	-3	0?0100?00
3150	23 44 28	28 9.8	13	2.1	1.3(.3)	-1.0(.4)			30517		DO 22443		106	-32	010300000
3151	23 44 43	39 14.9	14	1.9	1.6(.3)								110	-22	010100000
3152	23 44 45	57 9.6	20	1.6	1.5(.3)				60422	9010	DO 43605		114	-4	010100?00
3153	23 45 0	25 51.2	12	2.2	1.2(.3)				30518		SVS 8881		105	-35	010100000
3154	23 45 2	68 17.6	17	1.8	1.8(.4)	-1.5(.4)	-3.9(.4)						117	6	0?0144600
4302	23 46 4	63 24.6	34	2.3	1.3(.3)								116	2	010?00?00
3158	23 48 17	47 13.5	13	2.0	1.3(.3)				50479		TZ AND		112	-14	010?00100
3159	23 48 33	20 7.6	16	3.4	.8(.3)						DO 22483	R	104	-40	010?00000
3160	23 48 35	9 .9	16	3.1	.8(.3)				10541	9030	HH PEG		99	-51	000100000
4303	23 48 59	62 44.8	34	2.4		-1.0(.4)							116	1	0?0200?00
3163	23 49 11	8 46.7	16	3.1	.9(.3)				10542		DO 8089		99	-51	000100000
3164	23 49 28	2 37.7	11	2.5	1.4(.3)				533	9033	22 PSC		95	-57	000100100
3165	23 49 35	61 31.6	17	1.4	.3(.3)	-2.3(.4)	-3.7(.4)		60427				116	-0	030700700
3166	23 49 47	18 50.4	9	2.0	.5(.3)				20555	9036	PHI PEG		104	-42	010100000
3167	23 50 13	-12 16.4	7	2.3	1.3(.3)				-10607				78	-70	000001100
3168	23 50 19	60 42.5	22	2.2	1.4(.4)	-1.4(.4)			60428		TZ CAS		116	-1	0?0100300
3170	23 50 44	66 16.4	27	1.6	1.3(.3)				70202				117	4	01010??00
3173	23 52 1	57 12.4	17	1.7	1.6(.4)				60429	9045	RHO CAS		115	-5	010100100
3174	23 52 5	-0 12.3	9	2.1	-.2(.3)				535	9047	SVS 5807		94	-60	000100100
3176	23 52 48	48 21.9	16	1.8	-.1(.2)	-1.4(.3)			50483		RS AND		113	-13	030300000
3177	23 53 27	14 57.1	16	3.1	1.1(.3)				10544		DO 22554		104	-46	000100000
3178	23 53 51	-19 9.2	15	3.8	.5(.4)								63	-75	00000?100
3180	23 54 5	22 22.0	10	1.9	1.2(.3)				20556	9055	DO 22562		107	-38	010100000
3181	23 54 16	70 30.8	27	2.3		-1.2(.3)							118	8	0?022?+00
3183	23 54 27	32 3.4	13	2.0	1.4(.3)				30521		DO 22564		110	-29	010100000

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	O '	S	'									O	O		
3185	23 55 7	23 45.3	17	2.9	1.8(.3)						SVS 5813		107	-37	0?0100000	
3186	23 55 11	24 51.0	12	2.2	-.1(.3)	-.5(.4)			20557	9064	PSI PEG		108	-36	010300007	
3187	23 55 37	56 12.4	20	1.7	.9(.3)	-.8(.3)			60431		WY CAS		116	-6	0?0300+00	
3188	23 55 59	51 5.9	10	1.5	-2.6(.3)	-4.2(.3)	-4.8(.4)		50484	9066	R CAS		115	-11	0?0?00?00	
3189	23 56 11	-39 42.9	7	1.6	-.7(.3)	-2.7(.3)	-3.9(.4)		-30501E		RR PHE		341	-74	000007300	
3190	23 56 56	-23 50.6	6	3.7	1.3(.3)				-30472	9073	GC 33266		18	-78	0C0001?00	
3193	23 57 17	67 4.4	28	1.8		-.8(.3)	-2.1(.5)					EO	118	5	0?05+??00	
4304	23 57 18	-51 47.2	26	2.8		-1.7(.4)	-2.9(.5)						321	-64	000000?30	
3194	23 57 35	25 35.9	9	1.9	.7(.3)	-.3(.4)	-3.4(.6)		30522		Z PEG		109	-36	010300004	
3196	23 58 30	60 4.2	18	1.7	.1(.3)	-.9(.4)			60433		WZ CAS		117	-2	0+0100300	
4305	23 59 15	67 7.3	23	2.3		-1.0(.4)	-3.3(.4)				BRIGHT NEB		118	5	0?06+6?00	
3197	23 59 28	-6 16.4	16	4.0	-1.0(.4)	-1.0(.4)			-10608	9089	30 PSC		92	-66	000+00300	
4306	23 59 53	56 46.2	28	2.3	1.4(.3)								116	-5	0?0100?00	

6.2 Multiply Observed Sources

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, ordered as in the main table, the next four columns give the measured magnitude at 4.2, 11.0, 19.8, and 27.4 μm respectively along with their respective estimated errors in parentheses, and the last column gives the Julian data of observation. A blank entry in the magnitude column denotes that the source was not detected in that color (the 4.2 μm column for flights 8 and 9, and the 27.4 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. Saturated signals in a color are indicated by a less than designation (<). A plus (+) indicates that color should have been seen on the flight but wasn't (w_c equals 1) and a question mark (?) means that the signal-to-noise ratio in that color was too low to have been seen (w_c equals 0 or 1/2).

The individual magnitudes contained in this section indicate that the relative magnitude calibration is better than the absolute calibration. Thus the uncertainties in determining the system magnitude are greater than uncertainties in the measured magnitudes relative to that zero point. The root sum square of the deviations of all the sources in this section about their respective means in each color is calculated to be $\sigma(4.2) = 0.^m23$, $\sigma(11.0) = 0.^m35$, $\sigma(19.8) = 0.^m31$, $\sigma(27.4) = 0.^m21$. These values include known, and measured, variable stars and therefore tend to be overestimates. The measured variability on sources observed during the survey, therefore, have an accuracy comparable to the values listed above.

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
5	.3(.3)	-1.2(.4)	•		132
5	-.2(.3)	-1.5(.3)			335
5	.1(.4)	-1.5(.4)			657
7	1.1(.3)				335
7	1.1(.4)				548
7	.9(.4)				657
8	1.5(.4)				132
8	1.4(.3)				335
9	1.2(.3)		•		132
9	1.2(.3)				335
12	1.1(.3)		•		132
12	.9(.3)				423
12	1.2(.5)				657
13	1.4(.4)		•		132
13	1.3(.3)				335
14	.1(.3)	-2.9(.3)	•		132
14	.6(.3)	-2.0(.3)	-3.2(.4)		335
17	1.8(.4)	-.9(.4)			548
17	.9(.5)				657
18	1.5(.4)				548
18	1.4(.4)				657
20	1.4(.4)		•		132
20	1.6(.3)				335
21	1.1(.3)				132
21	1.0(.3)				335
21	.6(.4)				657
22	.9(.3)				132
22	.8(.3)	-.4(.4)			335
24	1.3(.3)		•		132
24	1.9(.4)				335
24			-4.3(.5)		657
27	1.2(.3)		•		132
27	1.7(.3)				335
28	.4(.3)		•		132
28	.5(.3)				335
29	1.1(.3)				548
29	1.2(.4)				657
37	.0(.3)				335
37	.2(.3)				548
37	.3(.4)				657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
40	-.2(.3)	-1.2(.4)			548
40	-.6(.4)	-1.6(.4)			657
40		-1.3(.5)			1295
41	1.5(.3)				132
41	1.5(.3)				335
45	1.5(.3)				335
45	1.4(.4)				657
48	.8(.3)				335
48	1.1(.3)		-3.4(.4)		548
48	.6(.4)				657
50	.1(.3)	-1.2(.4)	•		132
50	.0(.3)	-1.0(.3)			335
53	-1.3(.3)	-1.6(.3)			548
53	-1.2(.4)	-1.7(.4)			657
55	1.7(.4)		•		132
55	1.5(.3)				335
57	-1.4(.3)	-2.5(.3)	•		132
57	-1.7(.3)	-2.6(.3)			335
57	-1.9(.4)	-2.6(.4)			657
56	1.8(.4)		•		132
56	1.0(.3)				335
59	-1.2(.3)	-3.2(.3)	•		132
59	-.4(.3)	-2.6(.3)	-3.5(.4)		335
60	.9(.3)				132
60	1.7(.4)				335
60	1.3(.4)	-1.0(.4)			423
60	1.2(.3)	-.6(.4)			548
60	.9(.4)				657
64	-.4(.3)				548
64	-.2(.4)				657
66	-.3(.3)	-1.6(.4)			335
66	-.3(.4)	-1.3(.5)			657
67	.3(.3)	-2.5(.3)	•		132
67	1.0(.3)	-2.0(.3)			335
67	1.3(.3)	-2.3(.4)			423
67		-1.4(.4)			548
67	.1(.4)	-2.3(.4)			657
68	1.3(.4)	-1.5(.4)	•		132
68	.7(.3)	-1.1(.4)			335

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+
70	-.2(.3)				548	113	1.5(.4)		•		132
70	-.3(.4)				657	113	1.3(.4)				254
70		-1.3(.5)			1295	113	1.5(.5)				657
73	1.0(.3)				132	115	2.2(.4)		-3.3(.4)		335
73	.9(.3)				335	115	1.6(.4)				657
76	1.5(.4)		•		132	116	.8(.3)		•		132
76	1.0(.3)				423	116	.8(.3)				254
						116	.7(.3)				335
85		-1.4(.4)			548	116	1.3(.4)				657
85		-1.6(.4)			657						
						117	1.5(.4)		•		132
88	1.4(.4)				132	117	•		-3.2(.5)		254
88	.7(.3)				335	117	.8(.3)				335
89	1.4(.4)				132	120	1.4(.4)				254
89	1.0(.3)				335	120	1.1(.3)				335
						120	1.4(.5)				657
90	2.1(.5)				132						
90	1.4(.3)				254	121	1.5(.4)				254
						121	1.5(.3)				335
92	1.5(.3)				132	121	1.4(.4)				423
92	1.6(.4)				254						
92	1.2(.4)				335	122	1.4(.3)				254
92	•	-.6(.5)			657	122	1.0(.3)	-1.1(.4)			335
96	1.5(.4)		•		132	127	1.2(.3)		•		132
96	1.8(.4)				335	127	1.2(.4)				335
99	1.8(.4)	-1.1(.4)	•		132	128	1.9(.4)				132
99	1.9(.5)				254	128	1.6(.3)				335
99	1.5(.5)				657	128	1.3(.4)				657
100	-.6(.3)	-.8(.4)	•		132	129	1.0(.3)				254
100	.1(.3)				254	129	.8(.3)				335
100	-.5(.3)	-.2(.4)			335						
100	-.7(.4)				657	132	1.5(.4)				254
						132	1.6(.3)		-2.5(.5)		335
104	1.8(.4)				254						
104	1.8(.3)				335	133	1.8(.5)				254
						133	1.2(.4)				335
106	-.5(.3)				548	133	1.3(.4)				657
106	-.6(.4)				657						
						134	1.0(.3)		•		132
107		-1.5(.4)	•		132	134	1.2(.4)				254
107		-1.0(.4)			335	134	.7(.3)				335
107		-2.1(.4)			423						
107	.5(.3)	-1.3(.3)			548	135	1.9(.4)		•		132
107	1.5(.5)	-1.3(.4)			657	135	1.5(.3)				335
109	1.4(.4)				254	136	1.8(.4)				254
109	1.0(.3)	-.5(.4)			335	136	1.7(.4)				335

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
137	1.2(.4)		•		132
137	1.7(.4)				254
137	.3(.3)	-.4(.4)			335
137	.6(.4)				657
141	.5(.3)				254
141	.9(.3)				335
147	1.3(.4)		•		132
147	1.1(.3)				335
149	.6(.3)		•		132
149	.3(.3)	-1.2(.4)			254
149	.3(.3)	-.9(.3)			335
149	.3(.3)				423
149	.5(.4)	-1.5(.4)			657
153	1.0(.3)				132
153	1.3(.3)				335
153	1.5(.4)				423
154	1.8(.5)				335
154	.9(.4)				657
156	.9(.3)				548
156	1.4(.4)				657
157	•	-3.6(.3)	-4.9(.4)		254
157	-.4(.3)	-3.2(.3)	-4.9(.4)		335
158			-3.2(.5)		335
158	1.4(.3)				548
158	1.1(.4)				657
160	1.5(.4)				254
160	1.6(.3)				335
161	.7(.3)				335
161	.4(.3)				548
161	.2(.4)	-1.0(.4)	-4.0(.5)		657
163	1.2(.4)				335
163	1.1(.4)				548
163	1.2(.4)				657
165			-3.1(.4)		254
165	1.7(.4)		-2.3(.5)		335
167	.8(.3)				132
167	.9(.3)	-.7(.4)			254
167	.7(.3)	-1.6(.3)			335
169	1.5(.4)				335
169	1.1(.3)	-.9(.5)			548
169	1.1(.4)				657
175	1.7(.4)		•		132
175	1.2(.4)				548
177	.3(.3)	-1.3(.4)	•		132
177	-.1(.3)	-1.3(.3)			254
177	-.1(.3)	-1.3(.3)			335
184	1.4(.4)				132
184	1.4(.3)	-.5(.4)			254
184	1.2(.3)				335
184	1.3(.4)				548
184	1.0(.4)				657
186	.9(.3)				132
186	.9(.3)				335
186	1.2(.3)				423
186	•	-1.9(.4)			548
186	1.1(.4)		<-5.0(.5)		657
190		-2.2(.3)	-3.4(.9)		132
190		-1.6(.3)	-3.7(.4)		254
190		-1.8(.3)	-3.3(.4)		335
190		-1.7(.3)	-3.4(.4)		548
190	•	-1.9(.4)			657
189	1.3(.4)		•		132
189	1.3(.4)				254
189	1.3(.3)				335
189	•		-3.0(.7)		657
193	-.0(.3)				132
193	.2(.3)				254
194	.6(.3)	-1.8(.3)	-3.4(.4)		132
194	•	-2.2(.3)	-3.5(.4)		254
194	.2(.3)	-2.3(.3)	-3.3(.4)		335
194	-.3(.3)	-3.3(.3)			423
194	-.4(.3)	-2.8(.3)			548
197	1.1(.4)	-2.2(.4)	•		132
197	1.3(.4)				254
197	1.3(.3)				335
200	1.3(.3)		•		132
200	1.3(.3)				335
203	1.5(.4)				335
203	1.5(.4)				657
205		-1.4(.4)	•		132
205	•	-1.0(.4)	-2.9(.5)		254
205		-1.0(.4)	-3.3(.4)		335
205	2.2(.8)	-1.6(.4)	-4.0(.5)		657
206			-4.2(.4)		254
206			-3.4(.4)		335

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
210	.8(.3)				335
210	.9(.3)				548
211	.9(.3)				132
211	1.6(.4)				254
211	1.1(.3)	-.5(.4)			335
211	•	-.9(.6)			657
215	-.8(.3)	-1.8(.3)			548
215	-.9(.4)	-2.0(.4)			657
216	1.4(.3)				254
216	1.6(.3)				335
220			-3.3(.5)		132
220			-2.9(.4)		254
224	1.2(.4)				254
224	1.1(.3)				335
226	.9(.3)	-.7(.4)			254
226	1.6(.3)				335
227	1.6(.4)		•		132
227	1.2(.3)				254
227	1.1(.4)				335
228	1.1(.3)		-3.1(.4)		335
228				-6.2(.7)	1302
230	1.4(.3)	-1.5(.4)	•		132
230	•	-1.7(.3)	-3.5(.4)		254
230	1.9(.4)	-1.5(.3)	-3.4(.4)		335
231	1.4(.3)				254
231	1.0(.3)				335
231	.9(.3)				548
236	1.5(.5)				254
236	1.3(.3)				335
240	1.2(.3)	-.6(.4)			335
240	1.6(.4)				548
247	2.5(.4)				254
247	1.7(.3)				335
251	1.2(.3)	-1.1(.4)	•		132
251	1.2(.3)				254
252	1.1(.3)				254
252	1.5(.4)				335
253	.3(.3)	-1.3(.4)	•		132
253	•	-1.2(.4)			254

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
254	1.3(.4)				335
254	1.2(.4)				657
255	.9(.4)				254
255	.8(.3)				335
255	.9(.3)				548
256			-3.1(.4)		254
256			-3.8(.4)		548
259	1.4(.4)		•		132
259	1.0(.3)				254
262	1.5(.4)				254
262	1.2(.3)	-1.0(.4)			335
265	.8(.3)		•		132
265	1.8(.4)				254
265	.9(.3)				335
265	.9(.4)				657
273	1.0(.3)				45
273	.8(.3)		•		132
273	.5(.3)				335
273	.3(.3)				423
273	.3(.3)				548
273	.4(.4)				657
272	1.8(.5)				335
272	1.3(.3)				548
272	1.4(.4)				657
279	1.5(.3)				254
279	1.7(.4)				335
280	.3(.3)	-1.9(.4)	•		132
280	.3(.3)	-.5(.4)			254
283		-1.4(.5)			254
283	1.5(.3)				335
283	1.5(.5)	-.8(.4)			657
284	.9(.3)				335
284	.8(.3)	-.6(.4)			548
284	.7(.4)				657
285		-1.5(.5)	•		132
285	1.3(.3)	-.9(.4)			254
285		-.5(.4)			335
285	1.6(.4)	.0(.4)			548
286	-.1(.3)	-.9(.4)			335
286	-.4(.4)				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+
287	-.3(.3)	-1.5(.4)			254	326	1.0(.3)	-3.4(.3)	-6.5(.4)		132
287	-.9(.3)	-.8(.4)			335	326	1.7(.3)	-3.6(.3)	-7.0(.4)		254
287	-.7(.3)				548	326	.7(.3)	-3.8(.3)	-6.8(.4)		548
						326	.9(.4)	-3.7(.4)	-7.0(.5)		657
289	1.7(.4)				132						
289	1.5(.4)				548	327	.7(.3)		•		132
289	1.7(.5)				657	327	2.2(.4)		-3.0(.4)		254
295	1.2(.4)				254	328		-1.2(.5)	-4.2(.4)		132
295	1.2(.3)				335	328		-1.2(.4)	-4.2(.4)		254
						328		-1.5(.3)	-4.8(.4)		548
297	.7(.3)	-1.1(.4)			254	328	•	-2.2(.4)	-4.9(.5)		657
297	.7(.3)				335						
297	.6(.3)				548	331			-3.2(.4)		254
						331		-2.0(.4)	-3.7(.4)		548
301	1.3(.3)				254						
301	1.1(.3)				548	332	1.2(.3)	-1.3(.3)			254
						332	.9(.4)	-1.4(.4)			657
305	1.2(.3)		•		132						
305	1.3(.4)				254	333	•	-.9(.3)			254
305	1.0(.3)				335	333		-1.5(.4)			657
305	.9(.3)				548						
305	1.0(.4)				657	337	-.6(.3)	-2.2(.3)			335
						337	•	-2.8(.4)			548
311	1.0(.3)		•		132	337	-1.0(.4)	-2.7(.4)			657
311	1.6(.4)				335						
311	.4(.3)	-.6(.4)			548	339	1.5(.3)		-2.9(.5)		254
311	1.6(.5)				657	339	1.9(.5)				335
						339	1.1(.4)				657
314	1.0(.3)				335						
314	1.4(.3)				548	340	1.1(.3)				132
314	1.1(.4)				657	340	1.0(.4)				254
						340	1.0(.3)				335
318	-3.5(.3)	-5.0(.3)	-6.0(.4)		254	340	1.2(.5)				657
318	-3.1(.3)	-4.4(.3)	-5.5(.4)		335						
318	<-3.9(.3)	-5.1(.3)	-6.1(.4)		548	341	•	-.9(.4)			254
318		-5.2(.5)	-6.0(.5)	-6.6(.6)	1302	341		-1.5(.3)			548
						341		-1.6(.3)			1094
319	1.5(.4)				254						
319	1.2(.3)				548	348	1.7(.3)				254
						348	1.6(.5)				657
320	1.3(.4)		•		132						
320	1.1(.3)	-.9(.3)			254	349	•	-2.9(.5)	•		132
320	.2(.3)	-1.1(.4)			548	349	-.3(.3)	-3.2(.3)	-4.4(.4)		254
						349	.8(.3)	-2.0(.3)			548
321	.8(.3)				254	349	.3(.4)	-2.6(.4)			657
321	.7(.3)				335						
321	.6(.3)				548	354	1.2(.3)				254
						354	1.4(.3)				335
323	.4(.3)		•		132	354	1.1(.3)				548
323	-.0(.3)	-3.0(.3)	-3.8(.4)		254						
323	.1(.3)	-2.5(.3)	-3.5(.4)		548	357	-.5(.3)	-2.9(.3)			254
						357	-.5(.3)	-3.0(.3)	-3.7(.4)		335
						357	.2(.3)	-1.8(.4)	-2.9(.4)		548
						357	-.3(.4)	-2.5(.4)			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+
359	1.3(.4)				548	392	.1(.3)				254
359	1.4(.4)				657	392	.1(.3)				335
359	1.6(.3)				1094	392	-.1(.3)				548
360	1.5(.3)				132	393	1.6(.4)		•		132
360	1.8(.4)		-2.0(.5)		423	393	1.2(.3)				254
360	1.4(.4)				548	393	1.6(.4)				335
						393	1.7(.4)	-1.2(.4)			423
361		-2.1(.4)	-3.1(.5)		132	393	1.3(.3)				548
361		-1.9(.4)			657	393	1.5(.5)				657
369	1.9(.4)				254	396	.0(.3)				254
369	1.9(.3)				335	396	.0(.3)				548
372	1.3(.4)				335	400	.0(.3)	.0(.4)			254
372	1.3(.4)				548	400	.2(.3)	-.6(.4)			548
372	1.3(.4)				657						
						401	-1.4(.3)	-1.3(.4)			254
373	.9(.3)				132	401	•	-1.4(.4)			548
373	.7(.3)	-.3(.4)			254						
373	.5(.3)	-1.0(.4)			548	403	1.3(.4)				254
						403	1.0(.3)				335
378	.8(.3)	-1.3(.4)			254	403	.6(.3)				548
378	.1(.3)	-1.0(.4)			335	403			-3.1(.6)		1302
378	-.0(.3)	-.6(.4)			548						
378	-.0(.4)	-1.0(.4)			657	405	.8(.3)				254
						405	.7(.3)				548
379	-.3(.3)				254						
379	-.4(.3)	-.9(.4)	-3.1(.5)		548	406	1.3(.4)		•		132
						406	1.9(.5)				657
380	.8(.3)				254	406	2.5(.3)				1094
380	1.1(.3)				548						
380	1.4(.3)				1094	4029			-2.9(.4)		254
						4029			-4.0(.6)		657
381	.7(.3)	-1.3(.3)			254	4029			-4.4(.3)		1094
381	•		-3.3(.5)		548						
						413	1.0(.3)				254
4026	1.8(.5)				254	413	1.3(.4)				548
4026	2.3(.3)				1094						
						416		-.7(.4)			254
384	1.5(.4)				254	416		-.3(.5)			548
384	1.5(.4)				548	416		.3(.5)			657
384	2.3(.3)				1094	416		-.8(.3)			1094
4027	1.3(.4)				657	418	1.1(.3)				335
4027	1.8(.3)				1094	418	.9(.3)				423
						418	.7(.3)				548
386	1.0(.3)				254	418	.7(.4)				657
386	.8(.3)	-.5(.5)			548						
						419	-1.9(.3)	-1.9(.3)			254
387			-3.1(.4)		254	419	-2.0(.3)	-1.8(.3)			548
387			-3.1(.4)		548						
						425	.8(.3)				254
389		-1.0(.4)			254	425	.7(.3)				548
389		-.5(.4)			548						

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
428	*	-2.3(.3)			254
428	-2.5(.3)	-2.7(.3)			548
432	.9(.3)				132
432	1.3(.4)				254
432	1.3(.3)				335
432	.8(.4)				657
434	.2(.3)	-2.2(.3)	-3.3(.4)		254
434	.7(.3)	-2.1(.3)	-3.6(.4)		548
439	.3(.3)				254
439	.1(.3)				335
439	.2(.3)				548
440	1.3(.4)				254
440	.9(.3)				548
440	1.3(.4)				657
443	1.5(.3)				254
443	1.7(.4)		-2.5(.5)		548
449	1.0(.4)				254
449	1.0(.3)				548
453	.4(.3)	-.7(.4)			254
453	.1(.3)				548
453	.2(.4)				657
457	1.8(.4)				254
457			-3.1(.5)		423
457	.7(.3)				548
457	1.5(.4)				657
458			-4.4(.4)		335
458			-4.0(.5)		657
464	.6(.3)	-.7(.4)			254
464	.6(.3)				548
466	1.0(.4)		*		132
466	1.3(.3)	.1(.4)			254
466	1.2(.4)				657
466	-.3(.3)	.1(.3)			1094
467	1.4(.3)				254
467	1.2(.3)				548
472	1.8(.4)		*		132
472	1.6(.4)				335
472	1.7(.4)				548
475	-1.3(.3)	-1.5(.4)			254
475	-1.6(.3)	-1.6(.3)			335
475	-1.5(.3)	-1.2(.4)	-2.8(.6)		548
475	-1.6(.4)	-1.8(.4)	-3.6(.5)		657
476	1.0(.3)				254
476	.8(.3)				335
476	1.2(.3)				548
476	.9(.4)	-.8(.4)			657
482	.5(.3)	-2.2(.3)	*		132
482	1.1(.3)	-2.0(.3)	-2.8(.4)		254
482		-1.6(.4)			423
482		-1.3(.4)			548
482	1.1(.4)	-2.2(.4)			657
485	.4(.3)	-2.0(.4)	*		132
485	-.1(.3)				254
485	-.0(.3)				548
485	-.0(.4)	-.2(.5)	*		657
485	.9(.3)	-1.9(.3)			1094
487	.2(.3)				254
487	.1(.3)				548
489	-1.3(.3)	-3.4(.3)	-3.9(.4)		254
489	-.4(.3)	-3.3(.3)			548
488	1.6(.4)				335
488	1.8(.5)				548
488	1.5(.4)				657
491	1.1(.3)				254
491	.8(.3)				335
491	1.0(.3)				423
491	1.1(.5)				657
492	.9(.3)	-.9(.4)	-3.1(.4)		254
492	.6(.3)				548
497	1.5(.4)				254
497	1.1(.3)				335
497		-1.2(.5)			657
500	*	-2.0(.3)			254
500	-.4(.3)	-1.9(.3)	-2.5(.4)		335
500	-.4(.3)	-1.8(.4)			548
500	-.5(.4)	-1.7(.4)			657
503			-3.4(.5)		254
503		-1.5(.4)	-3.0(.5)		335
505	-.6(.3)	-1.5(.3)			254
505	-.6(.3)	-1.3(.3)			548
505	*	-1.8(.4)			657
506	.0(.3)				254
506	-.1(.4)	-1.3(.4)			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+
511	1.5(.4)				254	530	•		-3.1(.4)		254
511			-2.1(.5)		335	530			-3.3(.4)		548
511	.8(.3)		-3.5(.5)		548						
						531	1.2(.4)				254
513	1.0(.4)				254	531	1.2(.3)				548
513	1.0(.4)				335						
513	1.4(.4)				657	534	1.3(.3)				335
						534	1.1(.4)				548
514	-.8(.3)	-1.3(.4)			132	534	2.0(.4)				657
514	.6(.5)				254						
514	-.8(.3)	-1.3(.4)			335	537	-1.2(.3)	-1.1(.4)			254
514	-.7(.3)	-1.4(.4)			423	537	-1.4(.3)	-1.4(.3)			335
514	-.9(.4)	-1.1(.4)			657	537	-1.2(.3)	-1.9(.3)			548
						537	-1.3(.4)	-1.7(.4)			657
515	1.2(.3)				254						
515	1.3(.4)		-3.0(.5)		335	4042	1.7(.4)				254
515	1.0(.4)				657	4042	1.1(.4)				657
519	.2(.3)				254	538			-4.0(.4)		548
519	.1(.3)	-.6(.4)			335	538			-3.4(.5)		657
519	.1(.3)				548						
519	-.1(.4)	-1.1(.4)			657	4043	1.4(.4)				423
						4043	1.2(.3)				1094
4036	1.9(.3)				254						
4036	1.7(.4)				657	540	1.5(.3)				254
						540	1.3(.3)				335
520	-1.1(.3)	-1.2(.3)			254						
520	-.8(.3)				423	542	-1.2(.3)	-2.4(.3)	-3.5(.4)		254
520	•	-1.3(.4)			548	542	-1.1(.3)	-2.2(.3)	-2.9(.4)		335
520	-1.0(.4)	-1.5(.4)			657	542	-.9(.3)	-2.5(.3)	-3.1(.5)		548
						542	-1.1(.4)	-2.2(.4)	-3.5(.5)		657
521	1.7(.3)				254						
521	.9(.4)				548	543	1.5(.4)				254
						543	1.6(.3)				335
522	1.6(.3)				254	543	1.8(.4)				657
522	1.2(.4)				548						
						4044	1.2(.4)		•		132
523	1.3(.4)				254	4044	•	-.9(.5)			657
523	.7(.4)				657	4044	1.8(.3)	.9(.3)			1094
524	1.4(.5)				423	548	1.2(.4)				254
524	1.1(.3)				548	548	1.2(.3)				335
524	1.4(.3)				1094	548	1.3(.4)				546
525	.7(.3)	-1.6(.4)			254	550		-1.0(.4)	-4.1(.4)		548
525	.4(.3)				335	550		-.9(.5)			657
525	.6(.3)				548						
525	.5(.4)				657	551	1.3(.3)				548
						551	.8(.4)				657
4037	1.3(.4)				254						
4037	1.3(.3)				335	552	.6(.3)	-1.1(.4)			254
						552	.8(.3)	-1.7(.4)			335
526	1.8(.4)				335	552	1.0(.4)	-.9(.4)			657
526	1.4(.4)				657	552		-1.4(.7)			1302

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
553	.6(.3)				254
553	.8(.3)				335
553	1.6(.4)				548
553	1.1(.4)				657
558	.8(.3)				548
558	.5(.4)				657
559	.8(.3)				254
559	.8(.4)				548
559	1.5(.4)				657
562		-1.8(.4)			254
562		-2.2(.4)			657
563	.6(.3)				254
563	.5(.3)				335
563	.7(.4)				657
564	.3(.3)				254
564	.5(.3)				335
567	1.0(.4)				254
567	1.4(.4)	-1.9(.4)			423
567	1.3(.3)				548
567	1.2(.5)				657
570	1.5(.3)				335
570	2.0(.5)				657
570	3.6(.3)				1094
571	1.6(.3)				335
571	1.9(.5)	-.3(.5)			657
574	1.6(.3)	-.5(.4)			335
574		-1.5(.5)			548
574		-1.7(.4)			657
579	.3(.3)				254
579	.5(.3)				335
579	.3(.4)				657
4047	1.3(.4)	-.6(.4)			657
4047	2.3(.3)	3.4(.3)			1094
581	.2(.3)				548
581	.6(.4)	-.8(.4)			657
583	.4(.3)	-1.0(.4)			254
583	.2(.3)	-.7(.4)	-3.2(.5)		548
583	.4(.4)	-1.1(.4)			657
595	.1(.3)	-2.0(.3)	-2.7(.4)		254
595	-.4(.3)	-2.0(.3)			423
595	-.2(.3)	-2.0(.3)	-3.2(.4)		548
595	.5(.4)	-1.7(.4)			657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
598	.2(.3)				335
598	.4(.3)	-2.1(.4)			548
598	.6(.4)				657
599	1.6(.3)				335
599	1.4(.4)				657
603	1.1(.4)				254
603	1.7(.3)				335
604	1.4(.4)				335
604	1.8(.5)				657
605	1.0(.3)				254
605	1.8(.4)				335
605	1.0(.4)				657
606	-.0(.3)	-.5(.4)			254
606	-.1(.4)				657
608	.7(.3)				548
608	.4(.4)	-1.4(.4)			657
610	.9(.3)				254
610	1.0(.3)				335
610	.6(.4)				657
614	-.7(.3)				254
614	-.5(.3)	-.7(.4)			335
614	-.3(.4)				657
615	-.0(.3)	-1.2(.4)			254
615	-.1(.3)	-.7(.4)			335
615	.3(.4)				657
617	.1(.3)	-1.9(.4)			254
617	.1(.4)				657
619	.9(.3)	-1.2(.4)			548
619	1.6(.4)				657
622	1.4(.4)				548
622	.9(.4)				657
627	1.3(.4)				335
627	.8(.4)				657
632	.9(.3)				423
632	1.3(.4)				548
632	.7(.4)	-1.3(.4)			657
633	-.4(.3)	-1.2(.4)			254
633	-.3(.3)	-1.6(.4)	-2.4(.5)		335
633	*	-1.3(.4)			423
633	-.4(.3)				548
633	-.4(.4)	-1.2(.4)			657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
634		-.5(.4)	-3.1(.4)		335
634			-4.1(.4)		548
635	1.2(.4)				548
635	.8(.4)				657
636	.5(.3)				254
636	.5(.3)				423
636	.4(.4)				657
639	.3(.3)				548
639	.1(.4)				657
644	-.8(.3)	-1.4(.4)			548
644	*	-1.3(.5)			657
648	.5(.3)	-.1(.6)			254
648	.7(.3)	-1.6(.4)			423
648	.8(.3)				548
648	1.0(.4)				657
650	1.6(.3)				335
650	1.0(.4)				657
661	1.7(.3)				254
661	1.3(.4)				335
663	1.4(.4)		*		132
663	1.9(.4)		-3.1(.4)		423
663	1.4(.4)				548
664	-1.7(.3)	-4.5(.3)	-5.5(.4)		423
664	-2.1(.3)	-4.1(.3)	-5.0(.4)		548
664	-1.7(.4)	-3.8(.4)	-4.9(.5)		657
667	-1.7(.3)	-3.0(.3)	-3.1(.4)		254
667	-1.4(.3)	-2.8(.3)	-3.2(.4)		335
667	-1.6(.4)	-3.0(.4)			657
669	2.0(.3)				254
669	1.5(.4)				657
671	1.3(.3)				423
671	1.5(.5)				657
681	.8(.3)				548
681	.4(.4)				657
682	-.8(.3)	-1.9(.3)			254
682	-.5(.3)	-1.6(.3)			335
682	-.5(.4)	-1.9(.4)			657
686	1.6(.4)				548
686	1.0(.4)				657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
688	-.4(.3)	-1.2(.4)			254
688	-.4(.4)				657
692	1.3(.3)				548
692	1.5(.4)				657
693	.9(.3)	-1.1(.4)			335
693	.7(.3)				423
693	.8(.3)				548
693	1.4(.5)				657
694	1.3(.3)				335
694	1.4(.4)				657
697	1.2(.3)				548
697	1.4(.4)				657
699	-.3(.3)	-1.5(.4)			254
699	-.5(.4)	-1.4(.4)			657
700	.5(.3)	-1.9(.3)	-3.8(.4)		548
700	.6(.4)	-2.2(.4)			657
702	-1.8(.3)	-2.4(.3)	-3.5(.4)		335
702	-1.8(.4)	-2.3(.4)	-4.4(.5)		657
708	.3(.3)				335
708	.7(.4)				657
709	1.1(.3)				548
709	.8(.4)				657
710	-.2(.3)				335
710	.2(.4)				657
713	-2.0(.3)	-2.5(.3)			548
713	-2.2(.4)	-2.0(.4)			657
714	*		-3.9(.5)		548
714	.6(.4)				657
715	-1.2(.3)	-2.4(.4)			423
715	-1.3(.3)	-2.5(.3)	-2.9(.5)		548
715	-1.3(.4)	-2.7(.4)			657
720	-.2(.3)	-1.3(.4)			548
720	.0(.4)	-1.1(.4)			657
722	1.1(.3)				548
722	1.7(.4)				657
724	.7(.3)	-1.8(.3)	-3.0(.4)		254
724	.0(.3)	-1.8(.3)			423
724	-.1(.3)	-2.4(.3)	-3.0(.5)		548
724	.3(.4)	-2.3(.4)			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+
725	1.0(.4)				548	768	1.3(.3)				335
725	.3(.4)				657	768	1.4(.4)				423
728	1.2(.3)				254	771	1.3(.3)				254
728	1.3(.4)				548	771		-1.1(.5)			335
732	1.0(.3)				254	776		-1.4(.4)			335
732	1.0(.3)				335	776		-1.3(.5)			657
732	1.1(.4)				657						
733	*	-.4(.4)			254	777	1.3(.4)				548
733	1.3(.3)				335	777	1.2(.4)				657
733	1.0(.4)	-2.0(.4)			657	778	1.8(.3)				335
739	1.4(.4)				548	778	1.1(.3)				423
739	1.9(.5)		-4.7(.5)		657	781	1.5(.4)	-2.2(.3)			335
740	.7(.3)				335	781		-2.6(.4)			657
740	.4(.4)				657	779	-1.4(.3)	<-5.1(.3)	<-7.3(.4)		335
746	1.2(.3)				548	779	-.8(.4)	<-4.7(.4)	<-7.2(.5)		657
746	1.5(.5)		-4.1(.5)		657	786	.3(.3)	-1.8(.4)			335
748	-.2(.3)	-2.0(.3)			548	786	.5(.4)				657
748	-.1(.4)	-1.0(.4)	-4.1(.5)		657	788	.2(.3)	-1.7(.4)			548
749	1.1(.3)				548	788	-.3(.4)				657
749	1.2(.4)				657	791		-2.2(.3)	-3.5(.4)		548
751	.7(.3)				548	791		-1.5(.4)			657
751	1.1(.4)				657	793	.1(.3)	-.5(.4)			335
753	.9(.3)				423	793	.2(.4)	-.5(.4)			657
753	.8(.3)				548	794	.4(.3)	-2.0(.4)			548
753	.8(.4)				657	794	-.1(.4)	-1.9(.4)			657
754	.7(.3)	-1.2(.4)			548	796	.7(.3)				335
754	.7(.4)				657	796	.6(.4)	-1.1(.4)			657
756	1.2(.3)				254	797	.5(.3)				548
756	.7(.3)	-.9(.4)			335	797	.4(.4)				657
756	.7(.4)				657	804	1.4(.4)				335
757	-.7(.3)	-1.6(.3)			335	804	1.0(.4)				657
757	*	-1.7(.4)			657	805	-.3(.3)	-1.9(.3)			548
759	.5(.3)				335	805	-.5(.4)				657
759	.5(.4)				657	807	.4(.3)	-3.3(.3)	-4.5(.4)		335
761	1.2(.3)	-2.1(.4)			548	807	.5(.4)	-3.6(.4)	-6.9(.5)		657
761	1.2(.4)	-1.1(.5)			657	809	.4(.3)	-2.4(.3)	-3.8(.4)		548
767	-.9(.3)	-1.6(.4)			548	809	*	-2.3(.4)			657
767	-1.4(.4)	-1.5(.4)			657						

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
811	-.4(.3)	-2.6(.3)	-3.9(.4)		254
811	-.9(.3)	-3.0(.3)	-3.9(.4)		335
811	-.9(.3)	-3.3(.3)	-4.0(.4)		423
811	-.5(.3)	-2.9(.3)	-3.9(.4)		548
811	-.2(.4)	-2.5(.4)			657
815	.7(.3)				548
815	.9(.4)				657
818		-1.1(.3)	-3.6(.4)		335
818			-4.2(.5)		657
820	1.5(.4)				254
820	1.4(.3)				335
819	1.2(.3)				335
819	1.2(.4)				657
822	.4(.3)	-1.0(.5)			548
822	.5(.4)				657
823	.9(.3)				548
823	1.2(.4)				657
826	1.4(.4)				254
826	1.0(.3)	-1.0(.4)			335
826	1.3(.3)	-1.2(.4)			423
826	1.0(.3)				548
828	1.2(.3)				254
828	.8(.3)				335
828	1.2(.4)				657
830	1.7(.3)				335
830	1.8(.5)				657
832			-3.4(.5)		548
832	.8(.4)	-.2(.5)			657
834	1.6(.3)				335
834	1.5(.4)				657
836	<-3.6(.3)	-5.6(.3)	-6.1(.4)		335
836		<-5.1(.4)	-5.8(.5)		657
839	.4(.3)	-1.9(.4)			423
839	.1(.3)	-1.3(.4)	-3.5(.4)		548
839	-.1(.4)				657
841	.2(.3)	-1.6(.4)			548
841	.1(.4)	-.6(.4)			657
842		-2.0(.4)			423
842		-.8(.5)			548
842	1.3(.5)	-.8(.4)			657
846	1.3(.3)				335
846	1.8(.5)				657
848	1.2(.3)				423
848	1.3(.4)				548
848	.8(.4)				657
850	.9(.3)	-1.9(.4)			548
850	•	-1.5(.4)			657
849	.6(.3)		•		132
849	•	-1.5(.3)			254
849	-.2(.3)	-2.0(.3)			335
849	-.1(.3)	-2.0(.3)	-2.6(.4)		423
849	.3(.3)	-1.6(.4)			548
849	•	-.9(.6)			657
851	-1.1(.3)	-1.7(.4)			423
851	-1.0(.3)				548
851	-1.1(.4)	-1.7(.4)			657
856	.4(.3)				335
856	.3(.4)				657
858	-.7(.3)	-1.1(.3)			335
858	1.4(.5)				657
862	1.5(.4)				423
862	1.1(.4)				548
862	1.5(.4)				657
865		-2.2(.3)	-3.2(.4)		335
865	•	-2.6(.4)			657
866	1.3(.3)				254
856	1.8(.4)				548
870	•	-1.6(.4)			254
870	.4(.3)	-1.4(.3)			335
870	.5(.4)	-1.6(.4)			657
872	•	-2.2(.3)	-3.1(.4)		254
872	-.8(.3)	-2.1(.3)			335
873	1.4(.3)	-.8(.4)			335
873	1.6(.4)				657
874	.2(.3)				254
874	.0(.3)		-3.2(.5)		335
877	.3(.3)	-2.7(.3)	-6.1(.4)		335
877	.7(.4)	-2.7(.4)			657
878	.8(.3)				254
878	.5(.4)				657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
881	1.0(.3)				548
881	1.3(.4)				657
882			-3.4(.4)		254
882	1.3(.4)				423
882	1.1(.3)				548
884	1.6(.4)				254
884		-.8(.4)			335
884	1.2(.3)				548
888	.8(.3)				335
888	1.4(.4)				657
900	1.4(.3)				335
900	1.3(.3)				548
901	1.5(.3)				335
901	1.4(.4)				548
902		-.6(.4)	-3.2(.4)		335
902	•		-4.0(.5)		657
903	.6(.3)	-.2(.5)			423
903	.4(.3)				548
903	.4(.4)				657
905	.7(.3)				335
905	.6(.4)				657
907	-.7(.3)	-1.0(.4)			254
907	-.6(.3)	-1.2(.4)			335
907	-.5(.3)	-.9(.4)			423
907	-.5(.4)				657
910	.8(.3)				335
910	1.8(.4)				657
913	.4(.3)				335
913	.5(.4)				657
915	.6(.3)	-2.9(.3)	-4.2(.4)		335
915	.5(.4)	-2.4(.4)	-4.0(.5)		657
919	1.2(.3)				335
919	1.3(.5)				657
920	1.5(.3)				335
920	1.2(.4)				657
921	1.9(.4)	-1.2(.3)			335
921	•	-1.9(.4)			657
923	.8(.3)				335
923	1.4(.4)				657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
925	.1(.3)				335
925	.1(.4)				657
927	.4(.3)				423
927	.2(.3)				548
927	.1(.4)	-1.2(.4)			657
931	.8(.3)				254
931	.9(.3)				335
931	1.4(.3)				548
931	1.2(.4)				657
933	.5(.3)	-1.3(.4)			335
933	.1(.4)	-1.0(.5)			657
934	.3(.3)	-.7(.4)			335
934	.1(.4)				657
937	1.5(.3)				335
937	•		-4.1(.5)		657
938	1.8(.4)	-.5(.4)			423
938		-1.0(.4)			548
943	1.7(.3)				335
943	1.5(.4)				657
944			-3.3(.4)		254
944			-3.3(.4)		335
945	.7(.3)				254
945	.6(.3)				335
945	1.1(.3)				423
945	1.0(.4)				548
945	.8(.4)				657
947	.5(.3)				335
947	.5(.4)				657
954	1.2(.3)	-1.6(.4)			423
954	1.3(.4)	-1.0(.4)			657
955		-1.1(.4)			423
955	1.1(.4)	-1.8(.4)			657
956	-.4(.3)	-2.8(.3)	-3.2(.4)		254
956	-.9(.3)	-3.2(.3)	-4.2(.4)		335
956	-.7(.3)	-3.0(.3)			423
956	-.1(.3)	-2.6(.3)	-3.7(.4)		548
956	-.4(.4)	-2.6(.4)			657
957	1.3(.3)				335
957	1.5(.4)				548

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
958	1.1(.3)				254
958	.9(.4)				335
958	.8(.4)				657
959	.8(.4)				335
959	.7(.4)				657
962	.9(.3)				423
962	.4(.3)				548
964	1.2(.3)				335
964	1.0(.4)				657
966	-1.3(.3)	-2.0(.3)			423
966	-1.4(.4)	-2.1(.4)			657
967	1.4(.3)	-.5(.4)			335
967	1.1(.4)				657
968	-.3(.3)	-1.0(.4)			335
968	-.3(.4)	-1.9(.4)	-3.7(.5)		657
970	1.1(.3)	-.3(.4)			335
970	1.4(.4)				657
975	1.4(.3)	.0(.4)			335
975	1.7(.5)				657
977	-.0(.3)	-1.5(.3)			335
977	.5(.4)	-1.0(.4)			657
980	1.5(.4)				254
980	1.0(.3)				335
981	1.5(.4)				335
981	1.3(.4)				657
982	.3(.3)	-1.5(.3)			254
982	.5(.3)	-.8(.4)			335
982	*	-.7(.4)	-3.0(.5)		423
982	.8(.3)	-1.5(.4)			548
982	.1(.4)	-1.6(.4)			657
985	1.0(.3)				254
985	1.0(.3)				335
991	1.5(.5)				254
991	1.2(.4)				335
991	<1.2(.3)				423
991	1.3(.4)	-1.0(.4)			548
991	.9(.5)				657
994	1.1(.3)				423
994	.7(.4)				657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
997	1.3(.3)				254
997	1.5(.4)				335
999	.5(.3)				254
999	.6(.3)	-1.6(.4)			335
1001	-.3(.3)				335
1001	-.1(.4)	-1.0(.4)			657
1003	.8(.3)				254
1003	1.2(.4)				335
1003	.6(.3)	-.4(.4)			423
1003	.7(.4)				657
1004	1.5(.4)				335
1004	1.4(.4)				657
1007	-1.6(.3)	-1.6(.3)			254
1007	-.4(.3)	-1.1(.4)			335
1009	.7(.3)				335
1009	1.9(.4)				657
1010	1.4(.3)				335
1010	1.4(.5)				657
4064			-5.0(.4)	-6.7(.6)	1295
4064				-7.2(.7)	1302
1020	1.3(.3)				335
1020			-5.0(.5)		657
1021	.9(.3)				254
1021	.5(.3)	-.1(.4)			335
1021	1.0(.3)				423
1021	.7(.3)	-1.0(.4)			548
1021	.5(.4)				657
1022	.1(.3)	-.8(.4)			335
1022	.3(.4)				657
1028	-1.0(.3)	-3.0(.3)	-4.0(.4)		335
1028	-.3(.4)	-2.1(.4)			657
1034	.3(.3)				254
1034	.5(.3)				335
1036	1.2(.3)				254
1036	1.0(.3)				335
1036	1.2(.3)				548
1042	1.2(.3)				335
1042	1.2(.3)				423
1045	.6(.3)		-2.7(.4)		335
1045	.8(.4)				657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1050	1.9(.4)				254
1050	1.6(.3)				335
1050	1.1(.4)				423
1050	1.5(.4)				657
1051	1.4(.4)				335
1051	1.0(.4)				657
1052	1.6(.3)				335
1052			-3.8(.4)		423
1055	.3(.3)				335
1055	.2(.4)				657
1056	1.0(.3)				335
1056	1.6(.5)				657
1059	1.2(.3)	-1.8(.3)	-2.7(.5)		254
1059	1.2(.3)	-1.8(.4)	-3.3(.4)		335
1060	.9(.3)	-1.5(.4)			254
1060	1.5(.3)	-1.2(.4)			335
1062	1.0(.3)	-1.1(.4)			254
1062	1.7(.3)	-1.5(.4)			335
1072	•	-2.2(.4)			423
1072	1.4(.3)	-2.2(.3)			548
1072	1.5(.5)	-1.0(.4)			657
1073	.8(.3)				335
1073	.8(.4)				657
1074	1.5(.3)		-2.5(.5)		254
1074	1.2(.3)	-1.8(.3)	-3.6(.4)		335
1075	.4(.3)	-1.3(.4)			254
1075	.2(.3)				335
1080	1.5(.4)				335
1080	.9(.3)				423
1080	1.1(.4)				657
1081	1.3(.3)	-2.0(.3)			423
1081	1.0(.4)				657
1083	.6(.3)				335
1083	.7(.3)				423
1083	.5(.4)				657
1084	.9(.3)				254
1084	.9(.3)				335
1084	1.2(.3)				548
1084	1.1(.4)				657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1086	-.6(.3)	-.8(.4)			335
1086	-.3(.4)	-1.0(.4)			657
1087	1.1(.4)				254
1087	1.5(.3)				335
1091	1.3(.3)				335
1091	1.5(.4)				423
1091	1.2(.4)				657
1094	.6(.3)	-.4(.4)			335
1094	.7(.3)				423
1094	.8(.4)				657
1098	-.2(.3)	-1.4(.3)			335
1098	•	-1.1(.4)			423
1102			-3.5(.4)		335
1102		-.5(.4)	-3.3(.5)		657
1103	1.7(.5)				335
1103	1.4(.3)				423
1104	1.5(.3)				335
1104	1.8(.5)				657
1106	.8(.3)	•			45
1106	.9(.3)				132
1106	.5(.3)				335
1106	.6(.3)				423
1106	.7(.3)				548
1106	.6(.4)				657
1110	-.3(.3)				132
1110	.0(.3)				254
1110	-.4(.3)	-1.2(.4)			335
1110	-.2(.3)				423
1110	-.5(.3)	-1.3(.4)			548
1110	.4(.4)				657
1109	1.6(.5)				335
1109	<1.4(.4)				657
1114	1.3(.3)				335
1114	1.5(.3)				423
1114	1.1(.4)	-.8(.4)			657
1117	1.3(.3)				335
1117	1.3(.3)		-2.7(.5)		423
1118	1.0(.3)		-3.0(.4)		254
1118	1.2(.4)				335
1120	-.7(.3)	-1.5(.3)			335
1120	-.7(.3)	-1.4(.4)			423
1120	-.8(.4)	-2.0(.4)			657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1122	1.0(.3)				335
1122	1.3(.4)				423
1122	1.1(.4)				657
1123	.8(.3)				335
1123	1.1(.3)				423
1130	1.3(.3)				335
1130	1.5(.3)				423
1133	1.1(.3)				254
1133	1.5(.4)				335
1133	1.3(.4)				423
1133	*		-3.9(.6)		657
1134	1.6(.4)				254
1134	.9(.4)				657
1135	*	-1.6(.3)			254
1135	1.7(.4)				335
1141	1.4(.3)	-1.2(.3)			335
1141	.5(.3)	-2.2(.3)			423
1141	.6(.4)	-2.2(.4)			657
1143	1.6(.3)				335
1143	1.9(.4)				423
1143	1.1(.4)				548
1144	1.1(.3)				335
1144	.9(.4)				423
1144	1.3(.4)				657
1148	2.0(.4)				335
1148	.9(.4)				423
1150	*	-1.2(.5)			335
1150	<.1(.3)				423
1160	1.0(.3)				335
1160	1.3(.4)				423
1160	1.3(.4)		-3.1(.5)		657
1163	1.0(.3)				335
1163	.9(.3)				423
1167	1.0(.3)				335
1167	1.0(.4)				423
1169	1.4(.4)				254
1169	1.3(.3)				335
1174	1.4(.3)				335
1174	1.5(.4)				423

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1175	1.2(.3)				335
1175	1.5(.3)				423
1175	1.4(.4)				657
1176	1.5(.3)				335
1176	1.1(.4)				423
1178	.9(.3)				335
1178	1.3(.4)				423
1183	-1.3(.3)	-1.4(.4)			335
1183	-1.4(.3)	-1.5(.4)			423
1184	1.5(.3)	-.6(.4)			335
1184	1.4(.4)	-1.0(.4)			423
1186	1.1(.3)	-.2(.5)			335
1186	1.1(.4)				423
1187	.6(.3)				335
1187	.6(.3)				423
1187	1.3(.4)				657
1191	.8(.3)				335
1191	*	-1.8(.4)			423
4078		-4.0(.4)	-4.0(.4)		1295
4078			-4.2(.5)	-6.6(.7)	1302
1199	*	-.7(.4)			254
1199	.9(.3)				335
1200	.5(.3)				254
1200	.7(.3)				335
1218	1.3(.3)				254
1218	1.1(.3)				335
1220	-.1(.3)	-1.0(.4)			335
1220	.1(.3)				423
1227	1.1(.3)				335
1227	1.1(.3)				423
1228	1.6(.3)				335
1228	1.5(.4)				423
1232	.4(.3)				254
1232	.3(.3)				335
1232	.5(.3)	-.7(.4)			423
1232	.9(.4)				657
1238	1.5(.4)				254
1238	1.5(.3)				335

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+
1240	1.4(.3)				335	1287	1.6(.4)				254
1240	.6(.3)				423	1287	1.8(.3)				335
						1287	1.6(.5)				423
1241	-1.2(.3)	-2.3(.3)	-3.3(.4)		254						
1241	-1.4(.3)	-2.5(.3)	-3.4(.4)		335	1288	-.3(.3)	-1.9(.3)			254
1241	•	-2.5(.3)			423	1288	-.3(.3)	-2.0(.3)			423
4082	•	-2.1(.5)	•		132	1291	1.0(.3)		•		132
4082	1.2(.4)				423	1291	.8(.3)				335
4082		-1.3(.5)			548	1291	1.0(.3)				423
4082	.9(.3)	2.6(.3)			1094	1291	1.0(.3)				548
1243	1.0(.3)				254	4088	1.6(.4)	-2.2(.4)			132
1243	.8(.3)				423	4088	1.8(.5)				657
						4088	2.5(.3)	2.2(.3)			1094
1244	-.0(.3)	-.7(.4)			254						
1244	.1(.3)	-1.1(.4)			423	1295	1.7(.3)				335
						1295	1.5(.4)				423
1245	.1(.3)				254						
1245	.2(.3)				335	1296	1.1(.3)				254
						1296	1.0(.3)				335
1247	.5(.3)				254	1296	1.1(.3)				423
1247	.9(.3)	-.8(.4)			335						
1247	.5(.3)				423	1298	-.6(.3)	-.5(.4)			254
						1298	-.5(.3)	-.8(.4)			423
1249	1.3(.3)				335						
1249	1.1(.4)				423	1299	.6(.3)				254
						1299	.7(.3)				423
1255	.4(.3)				254						
1255	.8(.3)				335	1301	-.1(.3)	-1.3(.3)			254
1255	.6(.3)				423	1301	.1(.3)				423
4084		-.5(.4)	-2.8(.5)		254	1302	-.2(.3)	-1.0(.4)	-3.0(.4)		254
4084		-.0(.3)			1094	1302	-.3(.3)	-1.1(.4)			423
1262	1.1(.3)				254	1304	•	-.7(.4)			254
1262	1.4(.3)				335	1304	.0(.3)				335
						1304	.4(.3)				423
1265	1.3(.4)				254	1304	-.0(.4)				657
1265	1.2(.3)				335						
1265	1.5(.5)				423	1307	.2(.3)	-.6(.4)			254
						1307	.1(.3)				335
1276	1.2(.3)				254	1307	-.1(.3)				423
1276	1.3(.3)				423						
						1308	1.4(.3)				254
1282	1.6(.4)				254	1308	1.4(.3)				335
1282	1.4(.4)				423	1308	1.4(.4)				423
1283	1.5(.4)	-1.4(.3)			254	1310	1.6(.4)				254
1283	•	-1.5(.4)			423	1310	1.5(.3)				335
						1310	1.1(.3)				423
1285	1.1(.3)				254						
1285	1.4(.3)				335	1314	1.7(.3)				254
1285	1.6(.3)				423	1314	1.6(.4)				335

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1316	1.0(.3)				254
1316	1.2(.3)				335
1316	.8(.3)				423
1317	1.4(.4)				254
1317	1.1(.3)				423
1320	1.3(.4)				254
1320	1.1(.3)				335
1320	1.3(.4)				423
1320	.7(.3)				1094
1321	-.3(.3)	-1.7(.3)			254
1321	•	-1.1(.4)			423
1323	.4(.3)				254
1323	.2(.3)	-1.1(.3)	-2.9(.5)		423
1324	2.4(.4)	-.3(.4)			254
1324		-1.2(.4)			423
1326	-2.0(.3)	-2.6(.3)	-2.8(.5)		254
1326	-1.9(.3)	-2.8(.3)	-3.9(.4)		335
1326	-2.0(.3)	-2.7(.3)	-3.4(.4)		423
1332	1.2(.3)				254
1332	1.3(.3)				335
1332	1.2(.3)				423
1335	1.3(.3)				254
1335	1.4(.4)				423
1341	-1.0(.3)	-.8(.4)	-2.4(.5)		254
1341	-.6(.3)	-1.4(.4)			335
1341	-1.0(.3)	-1.0(.3)			423
1342	1.4(.4)				254
1342	.9(.3)				423
1344	•	-.5(.5)			254
1344	.3(.3)				335
1344	.2(.3)				423
1348	1.0(.3)				254
1348	1.2(.3)				423
1350	1.4(.4)				254
1350	1.7(.3)				335
1351	1.6(.4)				254
1351	.9(.3)				423
1353	-1.5(.3)				254
1353	-1.4(.3)	-1.2(.4)			423

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1354	1.0(.3)				254
1354	.8(.3)				423
1355	1.4(.4)				254
1355	1.7(.4)				335
1357	1.1(.3)				254
1357	.9(.3)				423
1358	.2(.3)				254
1358	.2(.3)	-.5(.4)			423
1360	1.6(.4)		•		132
1360	1.8(.4)				254
1360	1.6(.4)				423
4095		-2.5(.4)	-3.6(.5)		1295
4095			-3.8(.6)		1302
1363	.5(.3)	-.8(.4)			132
1363	.5(.3)				254
1363	.6(.3)				335
1363	1.0(.3)				548
1363	1.0(.4)				657
1366	1.0(.3)	-.6(.4)			254
1366	1.4(.4)				423
4096	2.3(.4)				254
4096	2.2(.3)				1094
1369	.8(.3)				254
1369	.7(.3)	-.9(.4)			423
1371	1.0(.4)				254
1371	1.7(.4)				423
1372	1.2(.3)				254
1372	.9(.3)				423
1376	-1.0(.3)	-2.5(.3)	-3.0(.5)		254
1376	-1.5(.3)	-3.0(.3)	-3.6(.4)		423
1378	.1(.3)	-.6(.4)			254
1378	.1(.3)				335
1380	-3.1(.3)	-4.2(.3)	-4.9(.4)		254
1380	•	-4.2(.3)	-5.3(.4)		423
1381	-3.8(.3)	<-6.1(.3)	<-8.6(.4)		254
1381	-3.2(.3)	<-5.4(.3)	-8.1(.4)		423
1386	.8(.3)	-1.1(.4)			254
1386	1.0(.3)	-.5(.4)			423

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1387	1.3(.4)				254
1387	.8(.3)				423
4097				-6.5(.6)	1295
4097				-7.5(.7)	1302
1388		-.9(.4)	-3.1(.4)		254
1388			-3.2(.4)		335
1388		-.9(.4)	-3.3(.4)		423
1399	.7(.3)				254
1399	.5(.3)	-.0(.4)			423
1410	-.7(.3)				254
1410	-1.1(.3)	-.9(.3)			423
1411	-.6(.3)				45
1411	*	-1.6(.4)			254
1423	1.2(.3)				45
1423	1.0(.3)	-1.1(.4)	*		132
1423	1.1(.4)				254
1423	.6(.3)	-1.1(.4)	-3.3(.5)		423
1431	1.5(.4)				45
1431		-1.2(.5)			132
1431	1.3(.3)				254
1431	1.1(.3)				335
1432	.5(.3)	-1.4(.4)	*		132
1432	1.5(.3)	-1.2(.4)			254
1432	.5(.3)				335
1433	.2(.3)	-.6(.4)			45
1433	.2(.3)				132
1433	.1(.3)				254
1433	.1(.3)				335
4115	1.5(.4)				45
4115	1.7(.3)				1094
4117	1.5(.4)				45
4117	2.9(.3)				1094
1442	1.5(.4)				45
1442	1.7(.4)		*		132
1442	1.9(.4)				335
1443	1.5(.3)	-.2(.4)			45
1443	1.2(.3)				335
1443	1.2(.4)				423
1448	.5(.3)				45
1448	.4(.3)		*		132
1448	.6(.3)				335
1449	1.1(.3)			*	2441000+
1449	1.4(.3)				132
					335
4124		-4.2(.4)	-7.5(.4)	-9.0(.6)	1295
4124		-2.8(.5)	-7.6(.6)	-8.7(.7)	1302
1474	.4(.3)	-1.8(.3)			45
1474	.4(.3)	-1.4(.4)			132
1474	.4(.3)	-1.4(.4)			335
1474	.1(.3)	-.9(.4)			423
4126		-5.3(.4)	<-7.7(.4)	-9.8(.6)	1295
4126		-2.4(.5)	<-8.2(.6)	-9.5(.7)	1302
4131	1.5(.4)				45
4131	2.7(.3)				1094
1489	.1(.3)			*	45
1489	.3(.3)				1094
4132		-1.7(.4)	-3.3(.4)		1295
4132		-2.1(.6)	-3.2(.6)		1302
1494	-.2(.3)				45
1494	-.1(.3)				132
1500	1.9(.4)				45
1500	1.5(.3)			*	132
4134		-1.4(.4)	-3.7(.4)	-6.1(.6)	1295
4134			-2.8(.6)		1302
4135		-1.5(.4)	-4.0(.4)		1295
4135			-4.4(.6)		1302
1517		-.3(.4)			45
1517		-.8(.4)	*		132
1517		-.7(.4)			657
4138	2.0(.4)				45
4138	2.3(.3)				1094
4139	1.2(.3)		-3.0(.5)		45
4139	1.5(.3)				1094
1519	1.2(.3)	-.9(.4)			45
1519		-.9(.4)			132
1523		-.6(.4)			45
1523		-1.6(.4)			132
4141	1.5(.3)				45
4141	3.1(.3)				1094

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1526	1.4(.3)		•		132
1526	1.3(.3)				335
1526	1.2(.3)				548
1535	.1(.3)	-1.5(.4)			45
1535	•	-1.1(.4)			423
4144		-.9(.5)	-3.7(.4)		1295
4144			-3.9(.6)		1302
4145	2.0(.4)				45
4145	3.5(.3)				1094
4146		-3.0(.4)	-6.4(.4)	-7.8(.6)	1295
4146		-2.9(.5)	-6.6(.6)	-7.7(.7)	1302
1536	-.2(.3)		-3.5(.4)		423
1536			-3.9(.5)		1295
4147	1.6(.4)				45
4147	2.2(.3)				1094
4148		-3.1(.4)	-6.2(.4)	-7.5(.6)	1295
4148			-5.8(.6)	-7.1(.7)	1302
1545	.8(.3)	-.8(.4)			45
1545	.9(.3)		•		132
1547	1.2(.3)				45
1547	1.2(.4)				423
1549	-.1(.3)	-.9(.4)			45
1549	•	-.9(.4)			423
1550	.9(.3)				45
1550	1.2(.3)		•		132
1552	1.5(.4)				45
1552	1.1(.3)		•		132
1555	-.0(.3)				45
1555	.3(.3)		•		132
4150		-3.4(.4)	-3.1(.5)		1295
4150		-3.4(.5)	-3.7(.6)		1302
4152		-1.9(.4)	-4.5(.4)	-6.5(.6)	1295
4152		-2.6(.5)	-4.6(.6)		1302
4153			-2.6(.5)		45
4153			-3.5(.3)		1094
4154		-1.6(.4)	-3.2(.4)		1295
4154			-3.6(.6)		1302

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
4155			-3.2(.4)		45
4155			-4.0(.3)		1094
4156		-.5(.4)			45
4156		.2(.3)			1094
1565	1.2(.3)	-.8(.4)			45
1565	•	-.8(.4)			423
1566	.5(.3)				45
1566	.8(.3)	-1.2(.4)			423
1566	.8(.3)	-.7(.3)			1094
4157	1.2(.3)				45
4157	1.1(.3)				1094
1570	-1.2(.3)	-1.9(.3)			45
1570	•	-2.2(.4)	•		132
1571	1.7(.4)				45
1571	1.6(.4)				423
1571	2.3(.3)				1094
1576	-1.5(.3)	-2.1(.3)			45
1576	-1.4(.3)	-2.2(.3)	•		132
1581	.8(.3)				45
1581	.3(.3)				423
1583	-.1(.3)	-1.0(.4)			45
1583	.1(.3)	-1.2(.4)			423
1584	1.2(.3)		-2.4(.5)		45
1584	.9(.3)		•		132
1585	-.4(.3)				45
1585	-.3(.3)		•		132
1588	-.8(.3)	-1.1(.3)			45
1588	-.4(.3)	-1.0(.4)	•		132
4161		-1.9(.4)	-3.6(.4)		1295
4161			-3.8(.6)		1302
4163		-3.3(.4)	-6.3(.4)	-7.8(.6)	1295
4163		-2.8(.5)	-6.4(.6)	-7.3(.7)	1302
1602	1.3(.4)				45
1602	1.2(.3)				423
4164		-1.3(.5)	-2.8(.5)		1295
4164			-3.6(.6)		1302
4165		-2.1(.4)	-5.2(.4)	-6.8(.6)	1295
4165			-5.2(.6)	-6.0(.7)	1302

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1606	-2.4(.3)	-3.2(.3)	-4.2(.4)		45
1606	-2.4(.3)	-3.2(.3)	-4.3(.4)		423
1606		-3.4(.4)	-4.4(.4)		1295
1612	1.6(.4)				45
1612	1.7(.4)		•		132
1614	.9(.3)				45
1614	.8(.3)				423
4166	2.0(.4)				423
4166			-4.0(.4)	-6.6(.6)	1295
1617	1.3(.3)				45
1617	1.4(.3)	-.4(.4)			423
1622	1.8(.4)				45
1622	1.0(.3)				423
1627	-3.2(.3)	-4.1(.3)	-4.6(.4)		45
1627	-3.2(.3)	-4.2(.3)	-4.7(.4)		423
1627		-4.1(.4)	-5.0(.4)		1295
4172		-1.9(.4)	-4.4(.4)	-6.3(.6)	1295
4172		-3.0(.5)	-4.4(.6)		1302
1633	-.2(.3)	-1.3(.3)			45
1633	-.2(.3)	-.9(.3)			423
1633			-3.2(.5)		1295
1634		-1.6(.4)			45
1634		-1.4(.4)			423
4173	1.8(.4)				45
4173		-2.1(.4)			1295
1637	1.7(.4)				45
1637	1.0(.3)		•		132
4174		-1.8(.4)	-4.9(.4)	-6.1(.6)	1295
4174			-5.4(.6)	-7.3(.7)	1302
4175		-1.9(.4)	-2.8(.5)		1295
4175		-2.2(.6)			1302
4176		-1.7(.4)	-4.4(.4)		1295
4176			-4.3(.6)		1302
4177		-3.2(.4)	-4.7(.4)		1295
4177		-3.1(.5)	-4.7(.5)	-6.8(.7)	1302
4178		-2.2(.4)	-4.0(.4)		1295
4178		-2.3(.5)	-3.5(.6)		1302
1648	.5(.3)				45
1648	.7(.3)				423

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
4179		-1.4(.4)			423
4179		-1.4(.4)			1295
4180		-.2(.7)	-2.6(.5)	-6.2(.6)	1295
4180			-3.5(.5)		1302
1650	<-3.9(.3)	-5.5(.3)	-5.8(.4)		45
1650	-3.7(.3)	-5.2(.3)	-5.8(.4)		423
1650		-5.4(.4)	-6.0(.4)		1295
4182		-2.0(.4)	-4.0(.4)	-6.4(.6)	1295
4182			-4.3(.6)	-6.4(.7)	1302
1653	.8(.3)				45
1653	.2(.3)	-.3(.4)			423
1653			-2.6(.5)		1295
1656	-.3(.3)				45
1656	-.3(.3)		•		132
1660	1.1(.3)		-3.4(.4)		45
1660	.5(.3)				423
1663	.9(.3)	-.3(.4)			45
1663	.9(.3)				423
4185		-1.5(.4)	-3.2(.4)		1295
4185		-2.5(.5)	-3.2(.6)	-6.7(.7)	1302
4186		-1.4(.4)	-3.0(.4)		1295
4186			-3.6(.6)		1302
4188		-1.0(.5)	-3.6(.4)		1295
4188			-3.6(.5)		1302
1677	1.0(.3)				45
1677	1.2(.4)				423
1684	.3(.3)				45
1684	.5(.3)				423
1685	1.1(.4)				45
1685	.9(.3)				423
1686		-1.2(.3)	-3.1(.4)		45
1686	•	-1.7(.3)			423
1687	1.1(.4)				45
1687	1.2(.3)				132
1687	1.4(.3)				423
1688	.6(.3)				45
1688	.6(.3)				423
1689	1.3(.3)				45
1689	1.1(.4)				423

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+
1690	.9(.3)				45	1761	.8(.3)				45
1690	1.3(.3)		•		132	1761	.9(.3)				132
						1761	.6(.3)				423
1693	-3.1(.3)	-3.3(.3)	•		132						
1693		-3.3(.4)	-3.5(.4)		1295	1765	.8(.3)	-.9(.4)	•		132
						1765	.4(.3)	-1.5(.3)			423
1694	.2(.3)	-.7(.4)			45						
1694	.3(.3)	-.3(.4)			423	1767	-.9(.3)	-1.9(.3)			45
1694			-2.4(.5)		1295	1767	•	-1.7(.4)			423
1696	.3(.3)	-1.4(.4)			45	1769	.0(.3)	-1.5(.3)	•		132
1696	.2(.3)				132	1769	-.3(.3)	-1.2(.4)			423
						1769		-1.1(.5)	-3.1(.5)		1295
1697	2.1(.4)	-.8(.4)			45						
1697	1.0(.3)				423	1771	.8(.3)	-2.7(.3)	-3.8(.4)		45
						1771		-2.7(.5)	-3.0(.6)		1302
1710	.5(.3)	-1.6(.4)	•		132						
1710	.3(.3)	-.6(.3)			423	1772	.9(.3)		•		132
1710		-1.4(.4)			1295	1772	1.0(.3)				423
						1772		-1.2(.5)			1295
1711	1.1(.4)				45						
1711	1.4(.3)				423	1773		-1.1(.4)	•		132
						1773	.6(.3)	-1.7(.3)	-2.6(.6)		423
1714	.7(.3)				45						
1714	.9(.3)		•		132	1776	.1(.3)				45
1714	.4(.3)				423	1776	.2(.3)				423
1714	.7(.3)		-2.9(.6)		548						
						1777	1.3(.4)		•		132
1715	-.8(.3)				45	1777	1.2(.4)				423
1715	-.8(.3)	-2.4(.3)	-3.4(.4)		423						
1715		-1.2(.4)			1295	1780	-.6(.3)	-1.7(.3)			45
						1780	-.3(.3)	-1.0(.5)	-2.7(.6)		132
1728	-.8(.3)	-1.5(.4)	•		132	1780	-.6(.3)	-1.4(.4)			423
1728		-1.6(.4)			1295	1780	-.3(.3)	-2.2(.3)			548
1740	-1.5(.3)	-1.5(.3)			45	1783	1.2(.3)				45
1740	-1.5(.3)	-1.5(.4)	•		132	1783	1.0(.3)		-4.3(.4)		132
1740	-1.7(.3)	-1.1(.3)			423	1783	.8(.3)				423
1740	-1.3(.3)	-1.9(.4)	-2.9(.5)		548	1783	.9(.3)				548
1743	.9(.3)				45	1788	-1.4(.3)	-1.8(.3)	•		132
1743	•	-1.2(.3)			423	1788	-1.4(.3)	-2.1(.3)	-2.9(.5)		423
1743		-1.3(.4)			1295	1788		-1.8(.4)	-2.7(.5)		1295
1744	-1.5(.3)	-1.5(.3)			45	4217	1.5(.4)	-1.9(.3)			132
1744	-1.2(.3)	-1.8(.4)			132	4217			-3.3(.5)		1295
1745	1.7(.4)		•		132	1792	.4(.3)				45
1745	1.0(.3)				423	1792	.9(.3)				423
1750	-1.6(.3)	-2.0(.3)			45	1793	-.3(.3)	-1.5(.4)	•		132
1750	-1.5(.3)	-2.2(.3)			423	1793	-.2(.3)				423
1750		-2.2(.4)	-2.8(.5)		1295						
						1796	1.2(.4)				45
1756	.9(.3)		•		132	1796	1.7(.4)				423
1756	.4(.3)				423						

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+
1799	-.2(.3)	-.6(.4)	•		132	1837	-1.3(.3)	-1.7(.3)	•		132
1799	-.3(.3)	-.5(.4)			423	1837	-1.6(.3)	-1.8(.3)			423
1799		-1.2(.5)			1295	1837		-1.8(.5)			1295
4219	•	-.4(.4)			423	1838	.9(.3)				132
4219		-1.3(.4)			1295	1838	1.0(.3)				423
1801	-.1(.3)	-1.4(.4)	•		132	1843	1.7(.4)				45
1801	-.3(.3)	-1.5(.3)			423	1843	1.6(.4)		•		132
1801		-1.9(.4)			1295	1843	1.3(.3)				423
						1843			-3.6(.6)		1302
1805	1.3(.3)				45						
1805	1.4(.4)	-2.1(.3)			132	1845			-3.8(.4)		45
1805	1.3(.4)				423	1845			-3.9(.5)		1302
1806	2.1(.5)				45	1847	1.1(.4)				45
1806	1.3(.4)		•		132	1847	.9(.4)				423
1806	1.5(.3)				423						
						1851	1.2(.4)				45
1809	2.1(.4)		•		132	1851	1.2(.3)		•		132
1809	1.2(.3)				423						
						1854	.4(.3)				45
1811	1.3(.4)				45	1854	.9(.3)				132
1811	1.9(.4)		•		132						
1811	1.8(.4)				423	1855		-1.6(.3)	-2.9(.5)		45
						1855		-2.0(.6)	-3.7(.5)	-6.5(.6)	1302
1814	1.4(.4)				45						
1814	1.4(.3)				132	1858	-1.3(.3)	-2.7(.3)	-3.5(.4)		423
1814	1.5(.3)				423	1858		-2.9(.4)	-3.3(.4)		1295
1818	1.2(.3)	-1.1(.4)			45	4224		-1.3(.4)			45
1818		-.7(.5)			423	4224			-3.4(.5)	-7.0(.7)	1302
1822		-1.8(.4)			45	1859	1.5(.4)				45
1822			-3.4(.5)		1302	1859	1.0(.3)				132
						1859	.5(.3)				423
1826	.9(.3)	-1.4(.3)	•		132						
1826	.9(.3)				423	1861	-.1(.3)				45
						1861	.6(.3)				132
1825	.0(.3)		•		132	1861	.4(.3)	-.8(.4)	-3.5(.4)		423
1825	.8(.3)				423	1861		-3.2(.5)	-3.5(.6)		1302
1825			-2.5(.5)		1295						
						1862	.9(.3)	-1.4(.4)	-2.9(.5)		423
1828	1.3(.3)				132	1862		-1.4(.4)			1295
1828	1.6(.4)				423						
						1868	-.4(.3)	-1.4(.3)			45
4221		-1.9(.3)	-3.7(.4)		132	1868	-.4(.3)	-1.4(.3)			423
4221		-1.4(.4)	-5.1(.4)		1295	1868	-.5(.3)	-1.4(.4)			548
1832	-.7(.3)	-1.7(.3)			423	1869	.5(.3)		-3.0(.4)		45
1832		-1.8(.4)			1295	1869	.7(.3)	-1.1(.4)	•		132
1835	2.0(.4)	-.6(.4)			45	1874	1.5(.3)	-.6(.4)			45
1835	1.3(.4)				132	1874	<1.1(.3)	-.7(.4)			423

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1875	.9(.3)				45
1875	1.3(.3)		•		132
1876	.8(.3)	-.8(.4)			45
1876	1.2(.3)	-.8(.4)	•		132
1880	.5(.3)				45
1880	1.2(.4)		•		132
1887	.2(.3)		•		132
1887	•	-.7(.4)			423
1888	.8(.3)				423
1888				-5.5(.9)	1295
1890	.0(.3)	-1.0(.4)			45
1890	.4(.3)		•		132
1895	.8(.3)				45
1895	1.0(.3)		•		132
1899	•		-2.7(.5)		45
1899	1.0(.4)	-1.9(.4)	-4.0(.4)		548
1905	.5(.3)				423
1905		-1.4(.5)			1295
1904	.8(.3)	-1.0(.4)			45
1904	1.4(.4)		•		132
1908	.2(.3)	-1.5(.4)			45
1908	.2(.3)	-1.1(.4)			132
1914	.3(.3)				423
1914		-1.1(.5)			1295
1916	.9(.3)				45
1916	1.4(.4)		•		132
4229		-1.2(.4)	-3.2(.4)		132
4229			-3.1(.5)		1295
1922	-.0(.3)	-3.6(.3)	-4.4(.4)		45
1922	.7(.3)	-3.3(.3)	•		132
1923	.2(.3)	-1.1(.4)			45
1923	.7(.3)		•		132
1930	-.0(.3)				45
1930	.2(.3)	-1.0(.4)			423
1930	1.1(.3)	-.9(.4)			548
1933	1.1(.3)				45
1933	1.6(.4)	-1.0(.4)	•		132

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1934	-.3(.3)	-1.6(.3)			45
1934	-.0(.3)	-1.4(.4)			132
1940	-.2(.3)	-2.7(.3)	-4.1(.4)		423
1940		-2.5(.4)	-4.0(.4)		1295
1940			-3.6(.6)		1302
1941	1.0(.3)				45
1941	1.3(.3)		-4.1(.4)		423
1942	1.2(.3)				423
1942	1.2(.4)				548
1945	1.0(.3)	-.6(.4)			45
1945	1.3(.4)		•		132
1947	<-3.7(.3)	-4.0(.3)	-4.4(.4)		423
1947		-4.1(.4)	-4.4(.4)		1295
1954	1.3(.3)	-1.0(.4)	-3.0(.4)		45
1954	1.9(.4)		•		132
1959	1.5(.4)				45
1959	1.1(.4)		•		132
1960	1.3(.3)	-.4(.4)			45
1960	1.7(.3)		•		132
1964	1.2(.3)				45
1964	1.4(.4)		•		132
1965	1.3(.3)				45
1965	1.2(.4)		•		132
1968	.7(.3)				45
1968	.7(.3)				423
1968	.7(.3)				548
1970	-.7(.3)	-1.6(.3)			45
1970	-.4(.3)	-1.5(.4)	•		132
1971	-.3(.3)	-1.1(.4)			45
1971	-.3(.3)	-.6(.4)	•		132
1972	1.2(.4)				45
1972	.6(.3)	-1.5(.4)	•		132
1974	1.4(.4)				45
1974	1.0(.3)				132
4231				-6.6(.6)	1295
4231				-6.5(.7)	1302
1977	-.7(.3)	-3.1(.3)	-3.7(.4)		423
1977		-2.2(.4)	-2.5(.5)		1295

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1981	1.5(.4)				45
1981	1.5(.3)		•		132
1983	1.4(.4)				45
1983	.9(.3)		-2.3(.9)		132
1985	1.1(.3)	-1.3(.4)			45
1985	.7(.3)		•		132
1988	.6(.3)	-1.6(.3)			423
1988		-2.0(.4)	-3.0(.4)		1295
1988		-2.0(.6)			1302
4232		-1.0(.4)			423
4232		-1.4(.4)	-3.2(.4)		1295
1991	1.4(.3)				45
1991	1.5(.3)		•		132
1993	.4(.3)	-1.2(.4)			45
1993	•	-.6(.4)	-3.0(.5)		423
1993	.7(.3)				548
1995	.6(.3)				45
1995	.9(.4)				132
1998	.9(.3)				45
1998	1.3(.3)		•		132
1999	1.5(.4)				45
1999	1.2(.3)				423
2002		-1.3(.4)	-3.9(.4)		45
2002	1.0(.3)	-2.2(.3)	•		132
2003	1.3(.3)	-4.0(.3)	-6.7(.4)		45
2003	.3(.3)	-4.0(.3)	-4.9(.9)		132
2004	1.3(.4)				45
2004	.8(.3)		•		132
2006		-1.9(.4)	-4.8(.4)		45
2006	1.1(.3)	-2.3(.3)	-4.6(.4)		132
2008	.7(.3)				45
2008	.8(.4)		•		132
2009		-1.0(.4)	-2.9(.5)		45
2009			-3.7(.4)		132
2011		-1.4(.4)			45
2011		-1.7(.4)	-4.2(.4)		132
2012	1.2(.3)				45
2012	1.6(.4)		•		132
2013	1.1(.4)				45
2013	1.4(.4)	-.9(.4)	•		132
2014	.9(.3)				423
2014				-6.3(.7)	1295
2015	1.8(.4)		-3.3(.4)		45
2015	2.2(.4)	-1.7(.4)	-2.6(.5)		132
2016	.4(.3)	-2.3(.3)	-3.2(.4)		45
2016	.5(.3)	-2.3(.3)	•		132
2017	.6(.3)	-2.2(.4)			45
2017	.6(.3)	-2.1(.3)	•		132
2018	1.6(.4)	-.3(.4)	-2.9(.4)		45
2018	1.5(.3)		•		132
2019	.1(.3)	-2.2(.4)			45
2019	.7(.3)	-2.2(.3)	•		132
2020	-.1(.3)	-.6(.4)	-2.4(.6)		45
2020	-.2(.3)		•		132
2023	1.2(.3)	-2.2(.3)	-3.3(.4)		45
2023		-2.0(.3)	•		132
2024	.8(.3)	-1.8(.3)	-2.8(.4)		45
2024	.6(.3)	-2.3(.3)	-3.4(.4)		132
2026	1.0(.3)				45
2026	.9(.3)		-3.1(.4)		423
2026	1.0(.3)				548
2027	1.4(.4)				45
2027	1.4(.3)	-.2(.4)			423
2032	1.3(.3)				45
2032		-.5(.5)			423
2034	1.8(.4)				45
2034	1.4(.4)		•		132
2036	1.0(.3)	-.3(.5)			45
2036	1.2(.3)	-.8(.4)	•		132
2037	.5(.3)				45
2037		-1.6(.4)			1295
2039	-1.6(.3)	-1.8(.3)			45
2039	-1.6(.3)	-1.8(.3)			423
2039	-1.6(.3)	-1.8(.4)			548
2041	-.2(.3)	-1.0(.4)			423
2041	-.1(.3)	-1.6(.4)			548
2041		-1.4(.5)			1295

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2040	-.5(.3)	-2.1(.3)			45
2040	-.8(.3)	-2.4(.3)	-2.7(.5)		423
2040	.2(.3)	-1.9(.3)			548
2042	.8(.3)				45
2042	.8(.3)		•		132
2046	1.6(.4)	-2.6(.3)	-5.4(.4)		45
2046	1.3(.3)	-2.7(.3)	•		132
2047	1.2(.3)				45
2047	1.6(.4)	-.4(.4)	•		132
2048	-.4(.3)	-2.6(.3)	-3.2(.4)		45
2048	-.6(.3)	-2.6(.3)	-2.7(.5)		132
2050		-2.0(.4)	-3.6(.4)		45
2050		-1.3(.4)	•		132
2051		-1.3(.4)	-4.0(.4)		45
2051		-1.2(.4)	•		132
2052		-3.4(.3)	-6.3(.4)		45
2052		-3.3(.3)	•		132
2053		-1.4(.4)			45
2053	1.2(.3)		•		132
2054	-.2(.3)	-3.1(.3)	-4.0(.4)		45
2054	.1(.3)	-2.8(.3)	-3.6(.4)		132
2059	1.4(.3)	-1.5(.4)	-3.3(.4)		45
2059		-1.3(.5)	•		132
2062	2.0(.4)	-1.5(.4)	-3.3(.4)		45
2062	1.0(.3)	-1.8(.3)	•		132
2064	-.0(.3)	-.7(.4)			423
2064			-2.4(.5)		1295
2065	.2(.3)	-1.2(.3)			45
2065	.8(.3)	-1.2(.4)			132
2066	1.3(.3)		-3.1(.4)		45
2066	1.6(.4)				132
2067	.3(.3)	-1.9(.3)			45
2067	.1(.3)	-2.3(.3)	•		132
2068	1.0(.3)				45
2068	.9(.3)				423
2068	1.5(.4)				548
2070	1.1(.3)	-.9(.4)			45
2070		•	-3.9(.6)		1295

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2071	-1.9(.3)	-5.1(.3)	-5.8(.4)		45
2071	-1.8(.3)	-4.6(.3)	•		132
2072	.5(.3)				423
2072	1.1(.3)				548
2074		-1.0(.4)			45
2074		-1.1(.4)			132
4235		-1.9(.4)	-5.1(.4)		45
4235		-1.9(.3)	•		132
2077	.4(.3)	-.8(.4)			423
2077	.7(.3)	<-.9(.4)			548
2078		-3.3(.3)	-6.3(.4)		45
2078		-3.3(.3)	-6.1(.9)		132
2082	1.1(.3)				45
2082	1.3(.4)		•		132
2084	1.4(.4)				45
2084	1.3(.3)				132
2083	1.1(.3)	-1.1(.4)			45
2083	1.2(.3)	-1.4(.4)	-3.0(.4)		132
2085	1.5(.4)	-1.0(.4)			45
2085	.8(.3)	-1.1(.4)			132
2087	.9(.3)				45
2087	1.0(.3)	-.9(.4)	•		132
2089	.0(.3)	.0(.5)			423
2089		-1.2(.4)	-3.3(.5)		1295
2090		-2.1(.3)	-5.4(.4)		45
2090		-2.4(.3)	•		132
2092	1.7(.4)				45
2092	1.2(.3)	-1.5(.3)	-3.2(.4)		132
2094		-1.5(.4)	-3.9(.4)		45
2094		-1.4(.4)	•		132
2096	1.8(.4)	-1.4(.4)			45
2096		-1.7(.4)			132
2097	.5(.3)	-.6(.4)			45
2097	1.3(.3)	-.8(.5)			423
2098	.8(.3)				423
2098		-1.1(.5)			1295
2102	.9(.3)	-1.9(.3)	-3.2(.4)		45
2102	.7(.3)	-1.5(.4)	•		132

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2103	.3(.3)	-2.4(.3)	-3.7(.4)		45
2103	.1(.3)	-2.4(.3)	•		132
2104	1.1(.3)	-1.3(.4)	-3.2(.4)		45
2104	1.0(.3)	-1.6(.3)	•		132
2107		-1.0(.4)	-3.7(.4)		45
2107		-.6(.5)	•		132
4236			-4.2(.4)		548
4236			-3.4(.5)		1295
2109		-1.3(.4)	-3.0(.4)		45
2109		-1.0(.4)	•		132
2110		-1.6(.4)			45
2110	1.8(.4)	-1.8(.3)	•		132
2113		-2.0(.3)	-4.0(.4)		45
2113		-2.2(.3)	-4.3(.4)		132
2114	.9(.3)				45
2114	1.0(.3)		•		132
2115	.8(.3)				45
2115	.8(.3)	-.5(.4)	•		132
2116	-.4(.3)	-1.2(.3)			45
2116	-.0(.3)				423
2116		-1.2(.5)			1295
2118	.8(.3)	-1.0(.4)			45
2118	1.0(.3)	-1.0(.3)	•		132
2117		-2.3(.3)	-5.4(.4)		45
2117		-1.4(.3)	•		132
2122	1.3(.3)	-1.4(.4)			45
2122	.5(.3)	-1.1(.4)	•		132
2123		-.5(.5)			45
2123	.9(.3)		•		132
2124	.5(.3)	<-5.2(.3)	-8.1(.4)		45
2124	-.3(.3)	<-5.7(.3)	<-8.0(.4)		132
2127	.9(.3)	-.9(.4)			45
2127	.7(.3)	-1.4(.3)	•		132
2128	.6(.3)				45
2128	.7(.3)				423
2129	.8(.3)				45
2129	1.0(.4)				423
2131	-.4(.3)				45
2131	-.3(.3)		•		132
2132	1.7(.4)	-2.1(.3)	-4.5(.4)		45
2132		-1.9(.3)	-4.3(.4)		132
2133	.1(.3)	-1.3(.4)			45
2133	.1(.3)	-.6(.4)			423
2133	.3(.3)				548
2134	.7(.3)				45
2134	1.0(.4)		•		132
2136		-1.9(.3)	-3.8(.4)		45
2136		-1.4(.4)	•		132
2137	.8(.3)				45
2137	.9(.3)				423
2138	.3(.3)				45
2138	.3(.3)				423
2138	.5(.3)				548
2139	.1(.3)	-2.5(.3)	-3.7(.4)		45
2139	-.3(.3)	-2.6(.3)	•		132
2143		-1.4(.4)			45
2143	1.6(.4)	-1.4(.4)	-3.3(.4)		132
2145	.5(.3)				45
2145	1.2(.3)	-1.6(.4)			423
2147		-2.0(.3)	-4.6(.4)		45
2147		-2.5(.3)	-2.9(.9)		132
2148	1.3(.3)				45
2148	1.1(.3)	-.0(.5)			423
2148	1.0(.3)				548
2151	.7(.3)	-1.5(.4)			45
2151	.4(.3)				132
2152		-1.6(.4)			45
2152		-1.3(.4)			132
2154	.5(.3)	-2.0(.3)	-2.8(.5)		45
2154	.7(.3)	-1.8(.3)	•		132
2155		-2.2(.3)	-2.4(.5)		45
2155	1.2(.3)	-2.8(.3)	-3.9(.4)		423
2155		-2.8(.4)	-3.6(.4)		1295
2155		-3.0(.5)	-3.9(.6)		1302
2157			-3.3(.4)		45
2157		-1.5(.3)	•		132

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D. 2441000+
2162	-.1(.3)	-2.2(.3)	-3.3(.4)		45
2162	-.1(.3)	-2.2(.3)	•		132
2161		-1.4(.3)	-3.9(.4)		45
2161		-.8(.4)	-3.6(.4)		132
2165	.8(.3)	-2.1(.3)	-3.2(.4)		45
2165	.7(.3)	-2.0(.3)	•		132
2164	.9(.3)	-.6(.4)			45
2164	1.2(.3)	-1.1(.4)			132
2166		-1.0(.5)			45
2166	1.2(.3)	-.9(.4)			132
2167	.6(.3)				45
2167	.7(.3)		•		132
2168		-1.0(.4)	-2.8(.5)		45
2168	1.2(.3)	-.9(.4)	•		132
2169		-2.3(.4)	-3.5(.4)		45
2169			-4.2(.4)		132
2171	1.6(.4)		-3.1(.4)		45
2171		-.8(.5)			335
2171	1.4(.4)	-.9(.4)			423
2171		-1.5(.4)			548
2171	•	-1.4(.4)			657
2174			-3.1(.4)		45
2174	1.4(.3)	-1.1(.4)			132
4238	1.8(.4)				45
4238	1.7(.4)				335
4238	1.2(.3)				423
4238	1.8(.4)				657
2177	2.1(.4)	-2.8(.3)	-5.6(.4)		45
2177	1.3(.4)	-3.0(.3)	-5.5(.4)		132
2178	.3(.3)	-2.3(.3)			45
2178	.9(.3)	-2.3(.3)			132
2181	1.3(.4)				45
2181		-1.1(.4)			423
2181	1.1(.4)				548
2182	1.0(.3)				45
2182	.8(.3)		•		132
2184	1.6(.3)				335
2184	1.2(.3)				423
2185	1.6(.3)	-.8(.4)			45
2185		-1.4(.4)			132

GL	M(4)	M(11)	M(20)	M(27)	J.D. 2441000+
2186	.9(.3)	-1.2(.4)			45
2186	1.4(.3)				132
2187	-.6(.3)	-1.0(.3)			45
2187	-.4(.3)				423
2187	-.4(.3)	-1.5(.4)			548
2187		-1.2(.4)			1295
2188		-1.2(.4)			45
2188		-.7(.4)	•		132
2192	1.4(.4)				45
2192	<1.3(.3)	-1.3(.3)	•		132
2196	.7(.3)		-3.6(.4)		45
2196	.7(.3)		•		132
2197	.9(.3)				45
2197	.8(.3)		•		132
2198	1.0(.3)				45
2198	1.4(.3)				423
2199	1.8(.4)	-1.3(.4)	-3.2(.4)		45
2199			-3.8(.4)		1295
2201	1.9(.4)				45
2201	1.0(.3)		•		132
2203	.9(.3)	-1.4(.3)	-3.0(.5)		45
2203	1.2(.3)	-1.3(.4)	-3.0(.4)		132
2204	.4(.3)	-.5(.4)			45
2204	.4(.3)		•		132
2205		-1.7(.3)	-4.0(.4)		45
2205		-1.3(.4)	-3.8(.4)		132
2206	-.4(.3)	-3.3(.3)	-4.1(.4)		45
2206		-3.5(.4)	-4.5(.4)	-6.7(.6)	1295
2208	-.3(.3)	-.6(.4)			45
2208	-.3(.3)				423
2208	-.5(.3)				548
2211	1.8(.4)	-.7(.4)	-3.2(.4)		45
2211	1.8(.4)	-1.3(.4)	-3.0(.4)		132
2213	-1.3(.3)	-2.2(.3)	-3.0(.4)		45
2213		-2.3(.4)	-2.8(.4)	-6.3(.6)	1295
2217	-.5(.3)	-.9(.3)			45
2217	•	-1.3(.4)			423
2217	-.7(.3)	-1.2(.3)			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+
2220	1.6(.4)				45	2248	1.1(.3)				45
2220	1.2(.3)		•		132	2248	1.0(.3)	-.9(.4)	•		132
2223	.7(.3)	-2.0(.3)	-3.3(.4)		45	2251	1.3(.3)	-3.2(.3)	-6.3(.4)		45
2223	.9(.3)	-1.4(.4)	•		132	2251	2.2(.5)	-2.6(.3)	-5.6(.4)		132
2225	1.2(.3)				45	2252		-1.3(.4)			45
2225	1.2(.4)	-.9(.4)			548	2252	1.5(.4)	-1.1(.3)	•		132
2227	1.0(.3)	-2.4(.3)	-3.6(.4)		45	2254	1.8(.3)	-.5(.5)			45
2227	.5(.3)	-2.4(.3)	-3.7(.4)		132	2254	1.2(.3)				132
2228	1.5(.4)				423	2259		-1.7(.4)			45
2228	1.5(.4)				548	2259		-2.1(.4)	-2.4(.5)		1295
2229	1.5(.4)	-1.2(.4)			45	2260	-.1(.3)	-.9(.5)			45
2229		-.7(.4)	•		132	2260	-.2(.3)	-1.3(.3)	•		132
2230	1.3(.3)				45	2261	.3(.3)				45
2230	1.1(.4)		•		132	2261	.5(.3)	-1.1(.4)			423
						2261	.6(.3)				548
2232	-1.7(.3)	-3.8(.3)	-4.3(.4)		45						
2232		-3.0(.4)	-3.6(.4)		1295	2267	1.3(.4)				45
2232			-3.1(.6)		1302	2267	1.2(.4)		•		132
2233	-.9(.3)	-3.4(.3)	-3.5(.4)		45	4240			-3.2(.4)		548
2233	-.9(.3)	-3.5(.3)	-3.6(.4)		132	4240			-3.3(.5)		1295
2236	.5(.3)	-2.0(.4)			423	2268	1.0(.3)				45
2236	.3(.3)	-1.5(.4)			548	2268	1.2(.3)				132
2235	-.2(.3)				45	2274	.0(.3)	-.1(.4)			45
2235	-.6(.3)	-1.3(.3)	•		132	2274	.4(.3)	-1.2(.4)			423
						2274	.3(.3)				548
2239	1.3(.3)	-.3(.4)			45						
2239		-1.1(.5)			1295	2275	.1(.3)				45
						2275	.1(.3)	-.9(.4)	•		132
2240	.8(.3)				45						
2240	1.0(.3)	-1.0(.4)			423	2276	.2(.3)				45
2240	1.0(.4)				548	2276		-1.1(.5)			1295
2241	-.1(.3)	-2.6(.3)	-3.1(.4)		45	2278	-1.5(.3)	-1.5(.3)			45
2241		-2.1(.4)	-3.1(.5)		1295	2278	-1.4(.3)	-1.9(.3)			423
						2278	-1.5(.3)	-1.9(.3)			548
2243			-4.1(.4)		45	2278		-1.6(.4)		-6.5(.6)	1295
2243		-1.3(.4)	-4.2(.4)		132						
						2279	1.3(.3)				45
2242		-.4(.4)	-3.2(.4)		45	2279	1.4(.5)				423
2242	•		-3.6(.4)		548	2279		-1.8(.5)			1295
2242			-2.9(.6)		1295						
						2282	.5(.3)	-.6(.4)			45
2246		-.8(.5)			45	2282	.2(.3)				132
2246	1.1(.3)	-1.3(.4)			548						
						2284		-1.1(.4)	-4.0(.4)		45
2247	1.3(.3)				423	2284		-2.1(.4)	-4.7(.4)		1295
2247	1.9(.4)				548						

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2285	-2.2(.3)	-2.4(.3)	-1.9(.5)		45
2285	-2.3(.3)	-2.6(.3)	-2.8(.4)		423
2285	-2.4(.3)	-2.5(.3)			548
2285		-2.6(.4)			1295
4241	1.0(.3)	-.4(.4)			45
4241		-1.3(.5)			1295
2288	.9(.3)	-1.2(.4)	-2.5(.6)		45
2288			-3.4(.6)		1295
2290	.5(.3)	-2.4(.3)	-4.0(.4)		45
2290		-2.7(.4)	-4.8(.4)		1295
2291	1.2(.3)				45
2291		-2.1(.4)			548
2300	1.0(.3)				45
2300	.8(.3)				132
2301	.8(.3)				45
2301	.8(.3)				423
2301	.8(.3)				548
2302	.8(.3)				45
2302	1.2(.4)		•		132
2303			-3.4(.4)		45
2303			-4.1(.4)	-6.3(.6)	1295
2308	1.6(.4)				45
2308	1.6(.4)				548
2310	-.5(.3)	-2.7(.3)			45
2310		-1.6(.4)	-3.1(.5)	-6.3(.6)	1295
2312	1.2(.3)				45
2312	1.2(.3)				548
2314	-.9(.3)	-1.4(.4)			45
2314	-.8(.3)	-1.6(.3)	•		132
2318	1.3(.3)	-1.1(.4)			45
2318		-1.7(.4)			1295
2317	1.7(.4)				45
2317	.9(.4)				423
2317	1.2(.4)				548
2319	.4(.3)	-.5(.4)			45
2319	.4(.3)	-1.1(.4)			548
2320		-.5(.4)			45
2320	•	-.7(.4)			423

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2324	•	-2.1(.4)	-3.1(.4)		45
2324	-1.4(.3)	-2.8(.3)	-3.5(.5)		548
2324		-2.3(.4)	-3.8(.4)		1295
2326	.4(.3)		-3.0(.4)		45
2326	.3(.3)				548
2326		-.8(.5)	-3.7(.4)		1295
2331	.4(.3				45
2331	.5(.3)	-.8(.4)			423
2331	.4(.3)				548
2333		-2.2(.3)	-3.2(.4)		45
2333		-.4(.6)	-3.2(.5)		1295
2334	1.7(.4)	-2.7(.3)	-5.7(.4)		45
2334		-2.7(.3)	-5.8(.4)		548
2334		-2.7(.4)	-5.9(.4)	-8.2(.6)	1295
2338	.7(.3)				45
2338	.6(.3)				423
2338	.6(.3)	-1.4(.4)			548
2341		-2.5(.3)	-5.1(.4)		45
2341		-2.5(.4)	-5.5(.4)		548
2341		-2.0(.4)	-5.4(.4)	-7.0(.6)	1295
4244	1.7(.4)				423
4244	1.6(.4)				548
2345		-1.8(.3)	-4.9(.4)		45
2345		-2.3(.3)	-4.1(.4)		548
2345		-1.9(.4)	-4.4(.4)	-6.7(.6)	1295
2346	.9(.3)				45
2346	1.3(.4)				423
2346	1.3(.4)				548
2348	.9(.3)				45
2348	.4(.3)				423
2348	.8(.3)				548
2349	-1.6(.3)	-3.9(.3)	-4.4(.4)		45
2349	-1.6(.3)	-4.0(.3)	•		132
2351	1.5(.4)				45
2351	1.3(.3)				548
2350	.7(.3)	-2.3(.3)	-3.3(.4)		45
2350	.9(.3)	-3.0(.3)	-3.1(.5)		548
2350		-2.2(.4)	-3.3(.4)		1295
2356	1.4(.3)				423
2356	1.6(.4)	-.6(.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+
2357	1.3(.3)				45	2381		-3.2(.3)	-6.7(.4)		45
2357		-.7(.4)	-3.5(.5)		423	2381	1.7(.4)	-3.8(.3)	-7.2(.4)		548
2357	1.6(.4)				548	2381		-3.7(.4)	-6.8(.4)	-8.8(.6)	1295
2358		-.5(.5)			45	2383	-1.4(.3)	-2.9(.3)	-3.0(.4)		45
2358	.7(.3)				548	2383	-1.5(.3)	-3.0(.3)	-3.2(.4)		423
						2383	*	-2.9(.3)	-4.1(.4)		548
2359		-.6(.4)	-3.3(.4)		45						
2359			-3.4(.4)		548	2384	-.1(.3)				45
2359			-3.8(.4)	-6.4(.6)	1295	2384	-.2(.3)	-.6(.4)			423
						2384	-.3(.3)				548
2360	1.2(.3)				45	2384	.1(.4)				657
2360	*		-3.1(.5)		548						
						2388	1.6(.4)				45
2362		-1.3(.4)	-3.2(.4)		45	2388	*		-3.0(.4)		423
2362			-3.0(.5)		1295	2388	1.4(.4)				548
2365	1.5(.3)				45	2389	1.5(.4)				45
2365	1.5(.4)				548	2389	1.8(.3)				423
						2389	1.2(.3)				548
2366	.1(.3)	-.5(.4)			45	2389			-2.9(.5)		1295
2366	.1(.3)	-.6(.6)			548						
2366		-.9(.6)			1295	2390	.2(.3)	-4.2(.3)	-6.1(.4)		45
						2390	.0(.3)	-4.4(.3)	-6.3(.4)		548
2367	1.1(.3)				45	2390		-4.2(.4)	-6.3(.4)	-6.7(.6)	1295
2367	.8(.3)				548						
						2392	.8(.3)	-1.2(.4)			45
2368	-.9(.3)	-3.3(.3)	-3.6(.4)		45	2392		-.9(.5)			1295
2368	-.6(.3)	-3.1(.3)	*		132						
						2395	.3(.3)				45
2371		-1.2(.3)	-4.0(.4)		45	2395	.2(.3)	.1(.6)			548
2371		-1.0(.4)	-3.7(.4)		548						
2371		-1.4(.5)	-3.9(.4)		1295	2396	.9(.3)	-.3(.4)			45
						2396	1.4(.4)	-1.1(.4)			423
2374		-1.1(.4)	-2.6(.5)		45	2396		-.2(.5)			548
2374		-1.8(.4)			548						
2374		-1.9(.4)	-3.2(.4)		1295	2400	.9(.3)	-1.4(.4)			45
						2400	.2(.3)	-1.1(.4)	*		132
2375	-.8(.3)	-1.4(.3)			45	2400	.5(.3)				548
2375	.8(.3)	-1.7(.3)			548						
2375		-2.1(.4)			1295	2398	1.4(.3)		-3.5(.5)		45
						2398	.9(.3)				548
2376	1.9(.4)	-1.1(.4)	-4.7(.4)		45	2398		-1.6(.5)			1295
2376	.9(.3)	-2.5(.3)	-5.3(.4)		548						
2376		-3.1(.4)	-6.4(.4)	-7.8(.6)	1295	4249		-1.5(.3)	-2.7(.4)		45
						4249		-1.3(.4)	-3.5(.4)		1295
2379	*	-1.9(.4)			45						
2379		-1.7(.3)	-4.4(.4)		548	2402	.8(.3)				45
2379		-2.5(.4)	-4.8(.4)	-6.5(.6)	1295	2402	.3(.3)		*		132
						2402	.4(.3)	-3.2(.3)			548
2380		-1.4(.4)	-3.0(.5)		45						
2380			-3.5(.4)		548	2403	1.4(.3)	-1.0(.4)	-2.6(.5)		45
2380			-2.6(.5)		1295	2403			-3.2(.4)		1295

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2404	1.3(.4)				45
2404	1.2(.3)				423
2404	1.2(.4)				548
2406	-.1(.3)	-.2(.4)			45
2406	-.1(.3)	-.8(.4)			548
2406		-1.4(.4)			1295
2407	-.2(.3)	-.6(.4)			45
2407	•	-1.3(.4)			548
2408		-.7(.5)	-2.5(.4)		45
2408		-.1(.5)	-3.5(.4)		548
2408		-1.4(.4)	-3.2(.4)		1295
2409	.6(.3)				423
2409	.3(.3)	-1.3(.3)			548
2409		-2.0(.4)	-3.6(.5)	-6.6(.6)	1295
4250		-1.8(.3)	-2.4(.4)		45
4250		-1.8(.4)	-2.9(.5)		1295
2412	.5(.3)				45
2412			-2.8(.6)		1295
2414	.6(.3)				45
2414	.4(.3)				548
2414		-1.5(.4)			1295
2415	-.3(.3)				45
2415	-.3(.3)				548
2417	.1(.3)	-2.6(.3)			45
2417	-.7(.3)	-3.0(.3)	-3.3(.4)		548
2417		-2.7(.4)	-3.6(.4)		1295
2418	.4(.3)				45
2418	.2(.3)				423
2418	.5(.3)				548
4251		-1.3(.5)	-3.0(.4)		45
4251			-3.6(.5)		1295
4251			-3.9(.6)		1302
2420	1.6(.4)				45
2420	1.0(.3)				548
2422	1.0(.3)	-1.0(.4)			45
2422	.6(.3)	-1.2(.4)	-2.9(.4)		423
2424	.6(.3)				45
2424	.4(.3)		-3.7(.4)		423
2424	.5(.3)				548
2424	.1(.4)				657
2423	.1(.3)	-1.3(.4)			45
2423	.6(.3)	-1.6(.4)			548
2423		-1.4(.4)			1295
2426	.4(.3)				45
2426	.3(.3)	-.6(.4)			548
2426		-1.2(.5)			1295
2428	1.2(.3)	-1.0(.4)			45
2428	1.1(.3)	-1.0(.5)			548
2429	1.1(.3)				45
2429	1.2(.4)				423
2429	1.4(.4)				548
2430	.7(.3)				132
2430	1.0(.3)				548
2432	1.0(.3)				45
2432	1.0(.3)				548
2433	1.9(.5)	-2.1(.4)			423
2433	1.4(.3)		-2.2(.6)		548
2435	1.1(.3)				45
2435	1.4(.4)				423
2436		-.3(.4)			45
2436	1.8(.4)	-.6(.4)			548
2439	.2(.3)				45
2439	.2(.3)				423
2439	.1(.3)	-.9(.4)			548
2440	1.5(.3)	-1.9(.3)			45
2440	1.0(.3)	-1.9(.3)			548
2440		-1.7(.4)			1295
2443	1.3(.3)	-1.3(.4)			45
2443	1.0(.3)	-.7(.4)			548
2445	1.3(.3)	-2.1(.3)	-3.1(.4)		45
2445		-1.2(.4)			548
2445		-1.9(.4)	-3.3(.4)		1295
2446	.5(.3)				45
2446	.7(.3)				548
2448		-.5(.4)			45
2448		-1.5(.4)			548
2450	1.2(.3)				45
2450	1.1(.4)				423

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2452	1.0(.3)	•			45
2452	.9(.3)				548
2452			-3.1(.5)		1295
2453	-.8(.3)	-.9(.4)			45
2453	•	-.9(.5)			548
2453		-1.4(.5)			1295
2454		-1.8(.3)	-4.1(.4)		45
2454		-1.6(.3)	-4.2(.4)		548
2454		-1.8(.4)	-4.4(.4)		1295
2455		-2.3(.3)	-4.9(.4)		45
2455		-2.5(.3)	-4.9(.4)		548
2455		-2.3(.4)	-5.0(.4)	-7.0(.6)	1295
2455			-5.2(.6)	-6.9(.7)	1302
2456	-.9(.3)	-1.3(.4)			45
2456	-1.2(.3)	-1.0(.4)			548
2456		-1.5(.4)			1295
4253	1.7(.4)	-1.1(.4)			45
4253		-1.1(.5)			1295
2458	1.8(.4)				45
2458	.6(.3)				548
2459	1.6(.4)				423
2459	1.4(.4)				548
2460		-1.3(.4)	-3.3(.4)		45
2460		-1.7(.4)	-3.4(.4)		548
2460		-1.4(.4)	-3.6(.4)		1295
2460			-3.7(.6)		1302
2461	-.9(.3)	-3.1(.3)	•		132
2461	-.6(.3)	-2.9(.3)	-3.6(.4)		548
2462	1.1(.3)	-1.8(.3)			45
2462	•	-1.5(.5)			548
2462		-1.5(.4)			1295
2463	.3(.3)				45
2463	.1(.3)				548
2464	1.3(.4)				45
2464	.8(.4)				423
2464	1.0(.3)	-.5(.4)			548
2464	1.5(.5)				657
2465	-2.9(.3)	-4.0(.3)	-4.6(.4)		45
2465	-2.7(.3)	-3.8(.3)	-4.5(.4)		548
2465		-3.8(.4)	-4.5(.4)		1295
2465		-4.0(.5)	-4.3(.6)		1302
2466	.3(.3)				45
2466	.2(.3)	-.6(.4)			548
2467	.5(.3)				45
2467	.4(.3)				548
2471	-.8(.3)	-2.0(.3)			45
2471	•	-2.3(.4)	-4.0(.4)		548
2471		-2.1(.4)	-3.1(.5)		1295
2472	1.3(.4)				45
2472	1.1(.3)		-2.9(.5)		423
2472		-.0(.5)			548
4256		-.9(.4)	-2.7(.5)		45
4256		-1.6(.4)	-3.0(.5)		1295
2477		-1.0(.4)	-2.8(.4)		45
2477		-1.2(.3)			548
2477		-1.2(.5)	-3.1(.4)		1295
2476	1.0(.3)				45
2476	1.0(.3)				423
2476	.5(.3)				548
2476	1.7(.5)				657
2479	-.7(.3)	-2.5(.3)	•		132
2479	-.6(.3)	-2.7(.3)			548
2479		-2.7(.4)	-3.3(.5)		1295
2480	1.0(.3)				45
2480	.6(.3)				423
2480	.6(.3)				548
2481	1.5(.4)				132
2481	.9(.3)		-3.3(.4)		548
2482	1.3(.3)				45
2482	1.3(.4)				548
2482		-1.2(.5)			1295
2484	1.0(.3)				45
2484	1.0(.3)				548
2485	-.4(.3)				45
2485	-.4(.3)	-1.0(.4)			548
2485			-2.8(.5)		1295
2486	.1(.3)				45
2486	-.1(.3)	-1.3(.4)			548
2488	1.7(.4)	-.7(.4)			45
2488		-1.0(.4)			548
2488		-1.5(.4)	-2.5(.5)		1295

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2490	.2(.3)	-.3(.4)			45
2490	.1(.3)				423
2490	-.1(.3)				548
2491	1.3(.3)				45
2491	1.4(.4)				548
2492			-3.6(.4)		548
2492			-3.5(.4)		1295
2492			-3.5(.6)		1302
2493	1.0(.3)				45
2493	1.0(.3)				548
2494	1.1(.3)	-2.7(.3)	-3.1(.4)		45
2494	.5(.3)	-3.0(.3)	-3.6(.4)		548
2494		-2.9(.4)	-4.0(.5)		1295
2495		-2.5(.3)	-5.6(.4)		45
2495	1.7(.4)	-3.2(.3)	-5.5(.4)		548
2495		-2.5(.4)	-5.8(.4)	-7.4(.6)	1295
2495			-5.3(.6)	-7.4(.7)	1302
2496	1.4(.5)				45
2496	1.4(.3)				335
2497	.8(.3)				45
2497	1.0(.3)				423
2497	.7(.3)				548
2497	.6(.4)				657
2498		-.5(.5)			45
2498		-1.1(.4)			548
2498		-1.5(.4)			1295
2500	1.1(.3)	-1.7(.3)			45
2500	*	-2.1(.4)			548
2500		-1.5(.4)			1295
2500			-3.3(.6)		1302
2501	1.3(.4)				45
2501	1.7(.4)		-3.5(.4)		423
2501	1.3(.3)				548
2502	1.0(.3)				45
2502	1.2(.3)				548
2503	.5(.3)	-.9(.4)			45
2503	.2(.3)				548
2504	1.1(.3)				45
2504	.9(.3)				548
2505	1.5(.4)				45
2505	.8(.4)				548

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2506	*	-1.0(.6)			45
2506	1.5(.3)				423
2506	1.6(.4)				548
2507	1.4(.4)				45
2507	.9(.3)				548
2509	*		-3.4(.4)		423
2509			-2.7(.4)		548
4259		-1.6(.4)	-3.2(.5)		1295
4259			-3.5(.6)		1302
2511	1.1(.3)	-.8(.4)			548
2511		-1.0(.5)			1295
2512	*	-.7(.4)			423
2512	1.4(.3)				548
2512	1.7(.5)				657
2513	.1(.3)	-2.6(.3)	-3.3(.4)		45
2513	.5(.3)	-2.1(.3)	-3.5(.4)		548
2513		-1.8(.4)			1295
2514	-.1(.3)	-3.2(.3)	*		132
2514	-1.3(.3)	-4.1(.3)	-5.3(.4)		548
2515	.5(.3)		*		132
2515	.2(.3)				548
2516	1.2(.3)				45
2516	1.0(.4)				423
2516	1.4(.5)				657
2517	1.1(.3)				45
2517	1.3(.3)				548
2520	.8(.3)		*		132
2520	.7(.3)				548
2523	1.7(.4)		*		132
2523	1.0(.3)				548
2526	.0(.3)	-1.2(.3)	-3.0(.5)		45
2526	-.1(.3)				423
2526	.5(.3)	-1.1(.4)			548
2526	-.0(.4)	-1.3(.4)			657
2528	.5(.3)				45
2528	.6(.3)				548
4261	1.8(.4)	-.3(.4)	*		132
4261		-1.2(.4)	-3.9(.4)		548
4261				-6.3(.7)	1295

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+
2531	.2(.3)	-.6(.4)			45	2561	.5(.3)				45
2531	.0(.3)				548	2561	.4(.3)				548
2531	.3(.4)				657	2561	.4(.4)				657
2535	.6(.3)				45	2560	-.2(.3)	-3.2(.3)	-5.2(.4)		45
2535	.3(.3)				423	2560	-.4(.3)	-3.2(.3)	-5.2(.4)		548
2535	.0(.3)	-1.0(.4)			548	2560		-3.0(.4)	-5.5(.4)	-7.0(.6)	1295
2535	.6(.4)				657	2560		-2.0(.6)	-6.0(.6)	-6.8(.7)	1302
2538	1.4(.4)				45	2562	-.2(.3)	-1.1(.3)			45
2538	1.3(.3)				548	2562	•	-.3(.5)			423
						2562	1.0(.3)	-1.0(.4)			548
2540	-.1(.3)				45	2562	-.3(.4)				657
2540	.1(.4)				657						
						4264		-1.1(.4)	-3.6(.4)		45
2547	.8(.3)				45	4264		-.3(.4)			548
2547	.7(.3)				548	4264		-.8(.5)	-1.8(.6)	-6.4(.6)	1295
2547			-3.0(.6)		1302						
						2565	.6(.3)	-.7(.4)	-3.7(.4)		45
2549		-1.7(.3)	-2.8(.4)		45	2565	.2(.3)	-2.6(.3)	-4.3(.4)		548
2549		-1.3(.4)			548	2565	.3(.4)	-1.2(.4)	-4.1(.5)		657
						2565		-1.0(.5)	-4.1(.4)		1295
2550	.6(.3)	-1.7(.3)			45	2565			-3.8(.6)	-6.5(.7)	1302
2550	.2(.3)	-1.6(.4)			548						
2550		-1.3(.7)			1302	2566	1.4(.3)				423
						2566	1.5(.4)				548
2551	2.2(.5)				45						
2551	.8(.4)	-.7(.6)			657	2567	1.6(.4)				132
						2567	1.8(.4)	-.9(.4)			548
2554	1.7(.4)	-1.2(.4)	-4.3(.4)		45						
2554		-1.4(.4)	-4.3(.4)		548	2569	1.5(.3)				45
2554		-1.7(.4)	-4.0(.4)	-5.5(.7)	1295	2569	•		-3.9(.5)		423
						2569	1.7(.5)				657
2555	.8(.3)		•		132						
2555	.8(.3)				548	2570	1.8(.4)				45
						2570	1.7(.5)				423
2556	.6(.3)	-1.0(.4)			45	2570	.9(.3)				548
2556	.4(.3)	-1.0(.4)			548	2570	.7(.5)				657
2556	.3(.4)	-1.3(.4)			657						
						2575	-.4(.3)	-2.8(.3)	-3.7(.4)		45
4263		-1.6(.4)	-2.9(.5)		1295	2575	-.4(.3)	-2.6(.3)	-3.9(.4)		548
4263			-3.2(.6)		1302	2575	•	-2.7(.4)			657
						2575		-2.4(.4)	-4.2(.4)		1295
2557		-1.1(.4)			45	2575		-2.5(.5)	-3.8(.6)		1302
2557		-1.5(.5)			657						
2557		-1.2(.5)			1295	2577	1.3(.3)		•		132
						2577	.9(.3)				548
2558	1.0(.3)	-.3(.4)			45	2577			-2.4(.6)		1295
2558	1.4(.4)				548						
						2578		-1.3(.3)	-3.8(.4)		548
2559	.2(.3)	-2.4(.3)	-3.3(.4)		45	2578		-1.9(.4)	-3.9(.5)		657
2559	.0(.3)	-2.3(.4)	-3.5(.4)		548	2578		-1.7(.4)	-4.3(.4)	-6.1(.7)	1295
2559		-2.3(.4)	-3.5(.4)		1295	2578			-4.2(.6)		1302
2559		-2.5(.5)			1302						

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2580	1.1(.3)				45
2580	1.2(.3)				548
2580	1.1(.4)				657
2581	.1(.3)	-1.3(.3)			45
2581	-.0(.3)	-1.1(.4)			335
2581	-.2(.3)	-1.0(.4)			423
2581	-.2(.4)	-1.3(.4)			657
2579		-.7(.2)	-2.2(.5)		45
2579		-.9(.4)			548
2579		-1.9(.4)	-4.0(.5)		657
2582	1.3(.3)				423
2582	1.4(.4)				548
2583	1.3(.3)	-.7(.4)			45
2583	1.1(.3)				548
2583	1.0(.4)				657
2584		-2.7(.3)	-5.7(.4)		45
2584	1.6(.4)	-2.4(.3)	-6.1(.4)		548
2584	*	-2.7(.4)	-5.5(.5)		657
2584		-3.1(.4)	-6.1(.4)	-7.3(.6)	1295
2584		-1.4(.6)	-6.0(.5)	-7.3(.6)	1302
2585	1.1(.3)				45
2585	1.1(.3)				548
2585	1.5(.4)				657
2586		-1.8(.3)	-4.1(.4)		45
2586	*		-4.4(.4)		548
2586	*	-1.7(.4)	-4.0(.5)		657
2586		-2.2(.4)	-4.9(.4)		1295
2589	.7(.3)				548
2589				-6.4(.6)	1295
2590	-.1(.3)	-2.2(.3)	-3.3(.4)		45
2590	-.1(.3)	-2.7(.3)	-3.7(.5)		548
2590	-.0(.4)	-2.3(.4)	-4.1(.5)		657
2590		-2.1(.4)	-3.4(.4)	-6.2(.6)	1295
2590			-3.3(.6)		1302
2591	.6(.3)	-2.5(.3)	-5.0(.4)		45
2591	.5(.3)	-3.0(.3)	-4.8(.4)		548
2591	*	-2.5(.4)	-4.3(.5)		657
2591		-2.3(.4)	-4.5(.4)	-6.7(.6)	1295
2591			-4.9(.6)		1302
2592	1.1(.3)	-1.2(.4)			132
2592	.4(.3)	-.3(.4)			548

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2593		-1.3(.4)	-4.3(.4)		45
2593		-1.6(.3)	-4.1(.4)		548
2593		-1.2(.5)	-4.2(.4)		1295
2593			-4.0(.6)		1302
2596	1.9(.4)				45
2596	1.3(.4)				548
2596	1.5(.4)				657
2597	.9(.3)				45
2597	.9(.3)				548
2598	1.1(.3)				548
2598	1.3(.4)				657
2600	1.5(.4)				45
2600	1.4(.4)		-3.6(.5)		657
4267		-.7(.4)	-2.4(.5)		45
4267			-3.2(.4)	-5.8(.7)	1295
4267			-3.4(.6)		1302
2599	1.6(.3)		-2.4(.4)		45
2599	*		-4.1(.5)		657
2601	1.7(.4)	-.8(.4)	-3.1(.4)		45
2601	1.0(.3)				548
2601	.9(.4)				657
2602		-2.4(.3)	-4.9(.4)		45
2602		-2.1(.3)	-4.8(.4)		548
2602		-2.3(.4)	-4.9(.5)		657
2602		-2.7(.4)	-5.0(.4)	-7.0(.6)	1295
2602			-4.9(.6)	-7.5(.7)	1302
2603	1.5(.3)	-2.1(.3)			45
2603		-1.6(.5)			548
2603			-4.5(.6)		657
2603		-2.3(.5)	-3.2(.6)		1302
2604	1.6(.3)	-1.5(.4)			45
2604	1.2(.3)	-1.0(.3)			548
2605	.8(.3)	-1.5(.3)			45
2605	-.1(.3)	-1.7(.3)			548
2605	.2(.4)				657
2606	1.3(.3)				548
2606	1.0(.4)				657
2607	1.1(.3)				45
2607	.7(.3)				548
2607	1.2(.4)	-.7(.4)			657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2608	.6(.3)				45
2608	.4(.3)				548
2608	.4(.4)				657
2609	.3(.3)	-1.5(.4)	-2.7(.5)		45
2609	•	-2.6(.5)			548
2609	.3(.4)	-1.6(.4)			657
2610	1.0(.3)		•		132
2610	1.0(.3)				548
2612		-1.3(.3)			548
2612		-1.1(.4)	-3.3(.5)		657
2613	1.1(.3)				45
2613	1.0(.3)	-.4(.8)			548
2613	1.5(.4)	-.8(.4)			657
2614	.9(.3)				132
2614	.5(.3)				548
2616		-1.6(.3)	-3.7(.4)		45
2616		-1.0(.4)			657
2617	1.3(.3)				45
2617	.9(.3)	-1.3(.5)			548
2617	1.1(.4)	-1.3(.4)			657
2618	-1.4(.3)	-1.6(.3)			548
2618		-1.9(.4)			1295
2620		-1.3(.4)			45
2620		-.9(.4)			548
2620	1.8(.5)	-1.4(.4)			657
2621		-1.3(.4)	-4.0(.4)		45
2621		-.8(.4)	-4.3(.4)		548
2623	.6(.3)		•		132
2623	.5(.3)				548
2624		-.8(.4)	-4.5(.4)		45
2624		-1.2(.3)	-4.7(.4)		548
2625		-1.6(.4)	-4.9(.4)		45
2625		-1.6(.3)	-4.8(.4)		548
2625		-1.1(.4)	-4.2(.5)		657
2625			-4.2(.6)		1302
2626	.8(.3)				548
2626	1.4(.4)				657
2627	1.3(.4)				45
2627	1.3(.5)				423
2627	1.3(.4)				548
2629	1.4(.4)	-.3(.4)	•		132
2629	1.5(.3)				548
2631		-1.2(.4)	-2.9(.4)		45
2631			-3.7(.4)		548
2631		-1.3(.4)			657
2632	-1.7(.3)	-3.6(.3)	-3.6(.4)		45
2632	-2.2(.3)	-3.6(.3)			548
2632	-1.7(.4)	-3.4(.4)			657
2633	.6(.3)	-.9(.4)			45
2633	.5(.3)				548
2635	3.1(.7)	-1.0(.4)			45
2635	1.7(.4)				657
2636			-3.9(.4)		45
2636			-3.7(.4)		548
2637	.5(.3)				45
2637	.2(.3)				548
2637	.5(.4)				657
2640	1.4(.4)				45
2640	1.6(.3)				132
2640	1.7(.4)				335
2644	.7(.3)				45
2644	.9(.3)				423
2644	.5(.3)				548
2644	•	-1.3(.4)	-3.7(.5)		657
2641	-.8(.3)	-1.6(.4)	-3.6(.4)		548
2641		-1.1(.5)			1295
2645	.8(.3)		•		132
2645	.9(.3)				548
2646	-.2(.3)	-2.0(.3)			132
2646	.0(.3)	-2.0(.3)			548
2646		-1.6(.4)	-2.8(.5)		1295
2649	1.5(.4)				45
2649	1.1(.4)				423
2649	.8(.3)				548
2649	1.0(.4)				657
2650	-2.1(.3)	-5.2(.3)	-6.3(.4)		45
2650	-2.3(.3)	-5.7(.3)			548
2650	-2.5(.4)	<-5.1(.4)	-7.0(.5)		657
2650		-5.5(.5)	-6.9(.6)	-7.2(.7)	1302
2652	-.2(.3)		•		132
2652	-.5(.3)	-1.3(.4)			548
2652		-1.3(.5)			1295

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2653	•	-2.6(.4)			548
2653	1.2(.4)				657
2655	1.1(.3)				45
2655	.9(.3)				423
2655	.5(.3)				548
2655	.8(.4)		-3.3(.5)		657
2657	1.2(.4)	-.7(.4)			548
2657	1.1(.5)				657
2658	.1(.3)	-1.5(.4)			132
2658	-.2(.3)	-1.3(.4)			548
2660	.6(.3)	-.4(.4)			548
2660	1.2(.4)				657
2662	.9(.3)	-.6(.4)	•		132
2662	1.1(.3)				548
2663	.9(.3)				45
2663	.4(.3)				548
2666	1.3(.3)		•		132
2666	.9(.3)				548
2666		-1.6(.5)			1295
2667	.6(.3)	-1.1(.4)			45
2667	.3(.3)	-1.2(.5)			548
2667	.0(.4)	-1.1(.4)			657
2668	1.5(.3)				45
2668	1.3(.3)				335
2668	.9(.4)				657
2670	.1(.3)		•		132
2670		-2.1(.4)			1295
2675	.9(.3)				548
2675	.9(.4)				657
2676	1.0(.3)				548
2676	1.6(.4)				657
2677	.7(.3)	-1.4(.3)			548
2677	.4(.4)	-2.2(.4)			657
2677		-2.0(.4)	-3.6(.4)		1295
2677			-4.0(.8)		1302
2678	.6(.3)				548
2678	.6(.4)				657
2681	1.7(.4)				45
2681	1.5(.4)				657
2682	.6(.3)				548
2682	1.0(.4)				657
2683	1.0(.3)	-1.5(.4)	-3.5(.4)		45
2683	1.0(.3)	-1.5(.3)			548
2683	.8(.4)	-1.6(.4)			657
2686	.3(.4)	-2.5(.4)			657
2686		-2.5(.4)	-3.1(.5)		1295
2688		-2.5(.3)	-6.2(.4)		548
2688		-2.7(.4)	-5.8(.5)		657
2688		-2.9(.4)	-6.1(.4)	-7.8(.6)	1295
2688		-2.3(.5)	-6.0(.6)	-7.5(.7)	1302
2689	.4(.3)				548
2689	.7(.4)				657
2690	1.5(.4)	-1.3(.4)	•		132
2690	1.2(.3)				335
2690	•		-3.5(.4)		423
2695		-1.0(.4)	-2.9(.5)		45
2695		-1.6(.4)			335
2695			-2.5(.5)		548
2695		-1.4(.4)			657
2697	1.4(.4)		-2.6(.5)		548
2697	1.6(.4)				657
2698	.3(.3)	-1.5(.4)			548
2698	.5(.4)	-1.2(.4)			657
2699	.9(.3)	-1.1(.4)			45
2699	1.2(.3)	-1.1(.4)			548
2699	.6(.4)	-1.5(.4)			657
2700	1.1(.3)				548
2700	1.4(.4)				657
2702	-.6(.3)	-2.4(.3)	-3.1(.5)		132
2702	•	-2.3(.4)			548
2702		-2.5(.4)	-2.9(.5)		1295
2704	1.6(.4)	-1.9(.4)			45
2704	.9(.3)	-1.3(.3)			548
2704	1.4(.4)	-1.5(.4)	-3.2(.5)		657
2708	-.5(.3)	-2.0(.3)	•		132
2708	-.7(.3)	-2.3(.3)	-2.9(.4)		548
2708		-2.5(.4)			1295
2709	1.0(.4)				548
2709	.7(.4)				657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2712	.8(.3)				132
2712	.5(.3)				548
2713		-2.1(.3)	-4.6(.4)		548
2713		-2.1(.4)	-4.7(.5)		657
2713			-4.6(.6)		1302
2716	1.2(.4)		•		132
2716	1.0(.3)				548
2716		-1.6(.5)			1295
2719	.7(.3)	-.7(.5)			548
2719	1.0(.4)				657
2720	.8(.3)				45
2720	.6(.3)	-.9(.4)	-2.9(.5)		548
2720	1.3(.4)				657
2721	-2.0(.3)	-3.2(.3)			45
2721	-2.1(.3)	-3.2(.3)	-3.8(.4)		335
2721	.0(.3)	-3.3(.3)	-3.9(.4)		423
2721	-2.4(.3)	-2.9(.3)	-3.9(.4)		548
2721	-2.1(.4)	-3.0(.4)	-4.1(.5)		657
2722	.3(.3)	-1.5(.4)	•		132
2722	.1(.3)				548
2722		-1.3(.5)			1295
2723	.8(.3)				548
2723	.7(.4)				657
2725	-.1(.3)				45
2725	-.2(.3)	-.3(.4)			548
2725	-.3(.4)	-.8(.4)			657
2727	.3(.3)		•		132
2727	.1(.3)				548
2727			-2.2(.8)		1295
2731	1.1(.3)				548
2731	.7(.5)				657
2735	1.9(.4)	-1.4(.4)			548
2735		-1.6(.4)			657
2737	1.1(.3)		•		132
2737	.9(.3)				548
2737	.9(.4)				657
4273			-3.2(.5)		548
4273			-3.0(.5)		1295
27·9	1.7(.4)				132
2739	1.7(.4)				548

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2740			-2.6(.5)		45
2740	1.3(.4)		•		132
2740	1.2(.4)				423
2740	1.4(.4)				548
2743	.9(.3)	-1.1(.4)			548
2743	.9(.4)				657
2745	1.6(.4)				45
2745	1.4(.3)				335
2745	1.5(.4)				548
2745	1.6(.5)				657
2746	1.1(.3)				45
2746	.7(.3)				423
2746	.9(.4)				657
2747	1.2(.3)				548
2747	1.6(.4)				657
2748	.7(.3)				45
2748	.7(.4)				423
2748	.4(.3)				548
2748	.2(.4)				657
2750	.3(.3)				548
2750	.0(.4)				657
2751	.9(.3)				132
2751	1.3(.4)				548
2751	1.4(.4)				657
2752	.9(.3)				548
2752	.5(.4)				657
2754	1.1(.3)				548
2754	1.4(.4)				657
2757	1.2(.3)				45
2757	.8(.3)		•		132
2757	1.2(.4)				335
2757	1.0(.3)	-.7(.4)			423
2757	.8(.3)	-.8(.4)			548
2757	•		-4.0(.5)		657
2761	1.3(.3)				45
2761	1.3(.3)				335
2765		-1.7(.4)			45
2765	1.2(.3)	-1.2(.4)			335
2765	1.3(.4)				423
2765	.8(.4)	-1.1(.4)			657
4274			-3.9(.5)		657
4274			-3.3(.5)	-6.7(.6)	1295

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2767	.5(.3)				548
2767	.6(.4)				657
2769	-.5(.3)				548
2769	-.5(.4)				657
2769		-.2(.8)			1295
2768	.6(.3)				45
2768	.8(.3)				335
2768	.1(.3)	-1.5(.4)			423
2768	.8(.4)	-1.0(.4)			657
2771	1.4(.3)	-1.5(.3)			45
2771	1.6(.3)				335
2771	1.2(.3)	.	-2.9(.6)		423
2771	.7(.3)	-1.5(.3)			548
2771	.6(.4)	-1.0(.4)			657
2775	.0(.3)	-2.3(.3)	-3.4(.4)		132
2775	-.3(.3)	-2.6(.3)	-3.4(.4)		548
2775	.7(.4)	-2.2(.4)			657
2775		-2.2(.4)	-3.1(.4)		1295
2776	.9(.3)		•		132
2776	.7(.3)				548
2777	1.8(.4)				335
2777	1.1(.3)				423
2779	-.0(.3)	-1.2(.4)			548
2779	.5(.4)				657
27-2	.0(.3)		•		132
2782	-.1(.3)	-.7(.4)			548
2785	-1.0(.3)	-2.7(.3)	-3.6(.4)		45
2785	-1.3(.3)	-2.8(.3)	•		132
2785	-1.9(.3)	-3.4(.3)	-3.2(.4)		335
2785	-1.9(.3)	-3.0(.3)	-3.2(.4)		423
2785	-1.4(.3)	-2.7(.3)			548
2785	-1.5(.4)	-2.7(.4)			657
2787	.2(.3)	-.9(.4)			132
2787	•	-2.6(.5)			548
2787	.6(.4)				657
4282			-3.1(.5)		548
4282			-3.2(.5)		1295
2790	-.9(.3)	-2.6(.3)	-3.3(.5)		548
2790	-.6(.4)	-1.7(.4)			657
2792	1.2(.3)		•		132
2792	.4(.3)				548
2792	.8(.4)				657
2792			-3.2(.5)		1295

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2795	.6(.3)	-1.1(.4)			548
2795	1.3(.4)				657
2799	1.2(.4)				45
2799	.5(.3)	-1.6(.4)	•		132
2799	.5(.3)		-3.3(.4)		335
2799	1.1(.4)				423
2799	.6(.3)	-.7(.4)			548
2799	.6(.4)	-.9(.4)			657
2800	-1.2(.3)	-1.4(.4)			132
2800	-1.0(.3)	-1.8(.4)			548
2800	-1.1(.4)	-1.5(.4)			657
2802	-2.3(.3)	-4.0(.3)	-4.6(.4)		335
2802	-2.5(.3)	-4.0(.3)	-4.9(.4)		548
2802	-2.3(.4)	-4.1(.4)	-4.6(.5)		657
2803	1.4(.4)		•		132
2803	1.5(.4)				657
2804	.7(.3)		•		132
2804	•	-2.4(.5)			548
2804	.3(.4)				657
2805	-.1(.3)	•			45
2805	-.2(.3)	-1.6(.4)	•		132
2805	•	-2.0(.4)			335
2805	-.9(.3)	-1.9(.3)			423
2805	-.5(.3)	-1.6(.3)			548
2805	-.8(.4)	-1.8(.4)			657
2806	-1.8(.3)	-3.3(.3)	•		132
2806	-2.0(.3)	-2.9(.3)	-3.8(.4)		548
2806	-1.9(.4)	-3.0(.4)	-4.6(.5)		657
2806		-3.2(.4)	-4.1(.4)		1295
2807	1.7(.4)				335
2807	1.6(.4)				548
2807	1.4(.4)				657
2808	.9(.3)	-1.8(.3)			335
2808	.4(.3)	-1.3(.4)			423
2808	.4(.3)	-1.9(.4)	-3.4(.5)		548
2908	.2(.4)	-2.2(.4)			657
2810	1.5(.3)				335
2810	1.5(.4)				423
2812	.6(.3)	-.7(.4)			132
2812	.2(.4)	-1.3(.4)			657
2813	1.4(.3)				335
2813	1.4(.4)				657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2815	1.1(.3)				335
2815	1.8(.5)	-.8(.4)	-3.7(.5)		657
2819	*	-1.5(.5)			548
2819	.4(.4)				657
2820	1.3(.4)		*		132
2820	1.5(.4)				657
2821	-.5(.3)				335
2821	-.5(.3)				423
2821	-.6(.3)	-.8(.3)			548
2821	-.6(.4)		-4.3(.5)		657
2822	1.1(.4)				45
2822	.6(.3)	-1.1(.4)			132
2822	1.1(.3)				335
2822	.5(.3)				423
2822	*	-1.2(.5)			548
2822	.7(.4)	-1.1(.4)			657
2825	.4(.3)	-1.6(.3)			335
2825	1.4(.4)	-1.8(.4)			657
2826	1.4(.3)				335
2826	2.0(.5)				657
2827	.6(.3)				335
2827	1.0(.4)				657
2828	-.5(.3)	-1.2(.4)			132
2828		-1.1(.5)			657
2832	.0(.3)	-1.2(.4)			335
2832	.2(.4)	-1.3(.4)			657
2835	1.5(.3)				132
2835	1.3(.4)				657
2837	-.8(.3)	-2.0(.3)	*		132
2837	-.9(.4)	-2.0(.4)			657
2839	-.1(.3)				335
2839	.5(.3)				423
2839	-.3(.3)				548
2839	-.3(.4)				657
2842	.8(.3)				335
2842	.6(.4)				657
2843	1.1(.3)		*		132
2843	1.2(.3)				548
2843	.6(.4)				657
2844	.4(.3)				548
2844	.6(.4)				657
2844		-1.1(.5)			1295
2845	-1.1(.3)	-2.5(.3)	*		132
2845	-1.1(.4)	-2.6(.4)			657
2845		-2.7(.5)	-2.6(.6)		1302
2847	1.1(.4)				335
2847	.8(.4)				548
2847	1.9(.5)				657
2848	1.9(.4)				335
2848	1.1(.4)				657
2851	1.3(.3)	-.8(.4)	*		132
2851	.8(.4)	-1.4(.4)			657
2851		-1.4(.5)			1295
2854	1.5(.4)		*		132
2854	1.3(.4)				657
2855	1.8(.3)				132
2855	1.3(.3)				335
2855	1.2(.3)				423
2855	1.4(.4)				548
2855	1.4(.4)				657
2856	2.4(.4)				335
2856	.9(.4)				657
2857	1.4(.4)				335
2857	1.8(.4)	-1.5(.4)			548
2857	1.3(.4)				657
2859	.6(.3)		*		132
2859	.8(.3)				335
2859	.7(.3)				423
2859	.9(.3)				548
2862	1.8(.4)		*		132
2862	1.0(.4)				657
2864	-.3(.3)				335
2864	-.3(.4)	-.5(.4)			657
2865	.9(.3)	-1.6(.4)	-3.3(.4)		335
2865	*	-1.8(.4)			657
2866	.4(.3)	-1.5(.3)			132
2866	1.0(.4)				657
2866			-3.1(.5)		1295

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2867	.6(.3)				335
2867	1.0(.3)				423
2867	.7(.3)				548
2867	.7(.4)				657
2869	.7(.3)		•		132
2869	.8(.4)				657
2872	.4(.3)		-3.0(.5)		335
2872	.3(.4)				657
2875	.7(.3)		•		132
2875	.7(.4)				657
2879	1.5(.3)				132
2879	1.4(.4)		-2.4(.5)		548
2880	1.0(.4)		•		132
2880	.9(.4)				657
2881	1.5(.3)	-1.1(.4)			335
2881	1.1(.4)	-.7(.4)			657
2884	1.2(.3)	-2.2(.3)	-4.6(.4)		335
2884	•	-2.4(.4)	-5.1(.4)		423
2884	1.2(.4)	-1.8(.3)	-5.4(.4)		548
2884		-2.1(.4)	-5.0(.5)		657
2885	.8(.3)	-2.0(.3)	-4.1(.4)		335
2885	-.2(.4)	-2.4(.4)	-4.1(.5)		657
2887	1.3(.3)				335
2887	.9(.3)	-.9(.4)			548
2387	.6(.4)				657
2889	.3(.3)				132
2889	-.1(.3)	-.8(.4)			548
2889	.3(.4)	-1.2(.5)			657
2889		-1.5(.4)			1295
2891	1.0(.3)				335
2891	1.1(.4)				657
4290		-1.2(.4)			132
4290	1.5(.4)	-.0(.4)			548
4290		-1.2(.5)			1295
2893	1.1(.4)				548
2893	1.3(.4)				657
2895	.4(.3)				132
2895	.4(.4)				657
2896	1.6(.4)	-1.4(.4)			335
2898	.8(.4)	-1.4(.4)	-3.5(.5)		657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2901	1.0(.3)	-1.8(.4)	•		132
2901	.5(.3)	-2.3(.3)	-3.0(.4)		335
2901	1.2(.4)	-1.9(.4)			657
2904	1.3(.4)		•		132
2904	1.6(.3)				335
2908	1.4(.4)		•		132
2908	1.2(.4)				657
2910	1.1(.4)		•		132
2910	1.0(.3)	-.7(.4)			335
2910	•	-1.4(.5)			657
2912	.7(.3)		•		132
2912	1.5(.5)				657
2913	-.1(.3)		•		132
2913	-.0(.3)				335
2913	-.2(.4)				657
2916	.8(.4)		•		132
2916	1.0(.3)				335
2916		-1.0(.5)			657
2918	1.1(.4)				132
2918	1.0(.4)				335
2918	.8(.4)				657
2919	.6(.3)				132
2919	.9(.3)	-1.2(.4)			335
2919	.7(.4)				657
2921	.6(.3)		•		132
2921	.3(.4)	-.3(.5)			657
2922	-.0(.3)	-2.1(.4)			132
2922	1.3(.3)	-1.4(.4)			335
2922	1.3(.5)	-1.3(.4)	-4.0(.6)		657
2925	1.1(.3)		•		132
2925	1.3(.3)	-1.5(.3)			335
2925	1.2(.4)				657
2928	-.4(.3)		•		132
2928	-.3(.3)	-.4(.4)			335
2928	-.8(.4)				657
2929	1.6(.4)				132
2929	1.6(.3)				335
2929	•	-1.9(.4)			423
2931	1.5(.4)				335
2931	1.5(.4)				657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2932	1.0(.3)		•		132
2932	1.4(.4)				335
2932	1.1(.4)				657
2935	.5(.3)				548
2935	.7(.4)				657
2936	1.5(.4)		•		132
2936	1.6(.5)				335
2936	1.4(.4)				657
2938	.5(.3)		•		132
2938	1.0(.3)				335
2938	.4(.4)				657
2940	.9(.3)		•		132
2940	.7(.4)				657
2941	1.3(.3)	-1.5(.3)			335
2941	.9(.4)				657
2942	.9(.3)				548
2942	.9(.4)				657
2943	1.5(.4)				132
2943	1.1(.4)				657
2946	1.6(.4)				132
2946	1.5(.4)				335
2946	1.5(.4)				657
2948	1.0(.3)				335
2948	1.4(.4)				657
2949	.9(.3)	-.9(.4)	•		132
2949	1.4(.4)				335
2949	1.5(.4)	-1.1(.4)			423
2957	.9(.3)	-1.7(.3)			132
2957	•	-1.5(.5)			335
2957	.4(.4)	-1.6(.4)	-3.1(.5)		657
2960	.6(.3)	-.9(.4)			132
2960	1.0(.3)				335
2960	.3(.4)				657
2962	-.1(.3)	-.7(.4)			548
2962	-.1(.4)				657
2962			-2.7(.5)		1295
2963			-3.1(.5)		132
2963			-2.7(.5)		335
2963	•	-.9(.4)	-3.6(.5)		657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2964	1.7(.4)				132
2964	1.8(.4)				335
2964	1.4(.4)				657
2965	-.8(.3)	-1.6(.3)			132
2965	-.6(.3)	-.8(.4)			335
2965	-.9(.4)	-1.3(.4)			657
2966	1.2(.3)		•		132
2966	.9(.4)				657
2967	.8(.3)		•		132
2967	.7(.3)				335
2967	1.2(.4)				423
2967	.8(.3)		-3.0(.5)		548
2967	.9(.4)		-3.3(.6)		657
2968		-1.6(.4)	-3.9(.4)		132
2968	1.5(.3)	-1.4(.4)	-3.4(.4)		335
2968	•	-1.6(.4)			657
2970	.8(.3)				132
2970	1.0(.4)				657
2971	.8(.4)		•		132
2971	1.4(.3)	-.5(.4)			335
2971	1.0(.3)	-.7(.4)			548
2971	1.0(.4)	-1.1(.4)			657
2974	1.1(.3)	-1.5(.4)			548
2974	1.2(.4)		-4.3(.5)		657
2976	.7(.3)		•		132
2976	.7(.3)				335
2976	.3(.5)				657
2977	-.8(.3)				548
2977	.2(.4)	-1.2(.4)			657
2977		-1.4(.4)			1295
2982	1.4(.4)	-1.3(.4)	•		132
2982	1.2(.3)	-1.1(.4)			335
2982	1.2(.4)	-1.3(.4)			657
2984	1.0(.3)	-1.8(.3)	•		132
2984	.3(.4)	-1.9(.4)			657
2984		-1.5(.5)			1295
2985	.6(.3)	-1.2(.4)			335
2985	.3(.3)				423
2985	1.2(.4)				548
2985	.7(.4)	-1.1(.4)			657
2986	.9(.3)				132
2986	.3(.4)		-4.7(.5)		657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2989	-1.0(.3)	-2.4(.3)	-3.5(.4)		548
2989	-.8(.4)	-2.0(.4)			657
2989		-2.2(.4)	-3.1(.4)		1295
2987	.9(.4)		*		132
2987	.7(.3)	-1.6(.3)			335
2987	.6(.4)	-1.6(.4)			657
2988	.9(.3)				45
2988	.4(.3)		*		132
2988	.5(.3)	-1.0(.4)	-2.0(.5)		335
2988	.6(.3)	-.2(.5)			423
2988	.4(.4)				657
2991		-.8(.4)			335
2991		-.9(.4)			657
2992	.6(.4)				132
2992	.8(.3)				335
2992	.4(.4)	-.5(.5)			657
2993	1.7(.4)				548
2993	1.8(.5)	-1.5(.4)	-4.9(.5)		657
4294	1.3(.3)				45
4294	.9(.4)		*		132
4294	1.3(.3)				335
4294	1.3(.4)				423
4294	*		-4.0(.6)		657
2999	1.4(.4)	-2.1(.3)	-3.3(.4)		335
2999	1.5(.5)	-2.0(.4)			657
3000	1.6(.3)	-1.0(.4)	-3.4(.4)		335
3000		-1.5(.5)			657
3001	1.7(.4)		*		132
3001	1.6(.5)	-1.0(.4)			657
3004		-2.1(.3)	-3.5(.4)		132
3004		-1.1(.4)	-2.8(.4)		335
3004		-1.0(.5)			657
3005	1.5(.4)				548
3005	1.2(.4)				657
3006	.8(.4)		*		132
3006	.6(.3)				335
3006	.5(.4)				657
3007	1.7(.4)				335
3007	.7(.4)				657
3010	.8(.3)	-.7(.4)	*		132
3010	.7(.3)				335
3010	.5(.4)				657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
3011	1.4(.4)	-1.3(.4)	*		132
3011	1.0(.3)	-1.0(.4)			335
3011	.4(.3)	-1.7(.3)	-3.4(.4)		548
3011	1.0(.4)				657
3012	.5(.3)				132
3012	.6(.3)				335
3012	.6(.4)	-.9(.4)			657
3013	.9(.3)		*		132
3013	.9(.3)	-.6(.4)			335
3013	.6(.4)				657
4295	1.3(.5)	-1.0(.4)			657
4295		-1.6(.4)	-3.3(.5)		1295
3015	1.5(.4)		*		132
3015	1.7(.4)				335
3016	1.3(.3)		*		132
3016	1.8(.3)	-1.1(.3)			335
3016	1.2(.4)				657
3017	-2.4(.3)	-2.5(.3)	*		132
3017	-2.3(.3)	-2.7(.3)			335
3017	-2.7(.4)	-2.6(.4)			657
3018	.6(.3)	-1.3(.4)	*		132
3018	.6(.3)				335
3018	.4(.4)	-1.0(.4)			657
3019	1.4(.3)				548
3019	1.5(.5)				657
3023	-.2(.3)	-1.4(.4)	*		132
3023	*	-1.4(.5)			657
3024	.7(.3)		*		132
3024	.5(.4)				657
3024			-1.9(.6)		1295
3026	1.3(.3)				132
3026	1.5(.3)				335
3026	1.3(.4)				657
3029	-.0(.3)				548
3029	-.1(.4)	-1.8(.4)			657
3029		-1.2(.5)			1295
3031	-.2(.3)	-1.0(.4)	*		132
3031	-.8(.4)	-.9(.4)			657
3031		-1.5(.5)			1295
3034	-.3(.3)				132
3034	-.3(.3)	-.7(.4)			335
3034	-.5(.4)				657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
3039	.1(.3)		*		132
3039	-.6(.4)				657
3041	.5(.3)	-.7(.4)	*		132
3041	.6(.3)				335
3041	.3(.4)				657
3042	1.5(.3)		*		132
3042	.9(.3)				335
3042	1.4(.4)				657
3044	.5(.3)	-1.1(.4)	*		132
3044	.2(.3)	-.1(.4)			335
3044	.3(.4)				657
3045	1.0(.3)		*		132
3045	.5(.3)	-.7(.4)			335
3045	.6(.4)				657
3046	1.4(.3)				335
3046	1.3(.4)	-2.1(.4)			423
3046	1.4(.4)				548
3046	1.8(.4)				657
3048		-2.9(.4)	*		132
3048	1.7(.3)	-2.9(.3)	-6.1(.4)		335
3048	1.3(.5)	-3.3(.4)	-6.7(.5)		657
3051	1.3(.3)				132
3051	1.3(.4)				335
3051	.7(.4)	-1.5(.4)			657
3052	1.2(.3)		*		132
3052	1.8(.4)				657
3053		-1.1(.4)	*		132
3053		-1.2(.4)	-4.1(.4)		335
3053		-1.8(.5)			657
3054	1.3(.4)				548
3054	1.4(.4)				657
3056	1.1(.3)	-.7(.4)	*		132
3056	1.1(.3)				335
3056	1.1(.4)				657
3057	1.8(.4)	-.2(.5)	-3.6(.4)		132
3057		-.0(.5)	-2.9(.5)		335
3057	*	-.5(.5)			657
3059	.2(.3)	-1.1(.4)	*		132
3059	-.0(.4)				657
3058	-.8(.3)	-.7(.4)			548
3058	-.6(.4)				657
3058		-.2(.9)			1295
3061	1.8(.4)				132
3061	1.6(.3)	-1.0(.4)			335
3064	1.1(.3)		*		132
3064	1.4(.4)				335
3065	.1(.3)				132
3065	.1(.3)				335
3065	.1(.4)	-.6(.5)			657
3066	.7(.3)				548
3066	1.4(.4)				657
3067	1.0(.3)				335
3067	1.3(.3)				423
3068		-3.7(.3)	*		132
3068		-3.4(.3)	-5.0(.4)		335
3068		-2.8(.4)			657
3073	.5(.3)				132
3073	.4(.3)				335
3073	.7(.4)				657
3074	.7(.3)		*		132
3074	.6(.3)				335
3074	.6(.4)				657
3075	-1.1(.3)	-2.3(.3)			132
3075	-.9(.3)	-2.1(.3)	-3.6(.4)		335
3075	*	-2.2(.4)			657
3076	.9(.3)				132
3076	.6(.4)				657
3078	1.3(.3)				132
3078	1.6(.3)				335
3079		-.1(.5)	-3.9(.4)		335
3079			-4.2(.6)		657
3085	.7(.3)	-.9(.4)	*		132
3085	.8(.3)				335
3085	*	-1.0(.5)			657
3087		-.5(.5)	*		132
3087	1.5(.4)				335
3087	1.1(.4)				657
3086	.8(.3)				548
3086	1.3(.4)				657
3088	-.1(.3)	-1.0(.4)			132
3088	-.0(.3)	-1.1(.4)			335
3088	-.2(.4)				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+
3091	.6(.3)	-.3(.5)	•		132	3122	.9(.3)		•		132
3091	.3(.3)				335	3122	1.4(.4)				335
3091	.4(.4)				657	3122	1.1(.5)				657
3093	.7(.3)				548	3124	1.3(.3)		•		132
3093	1.5(.4)				657	3124	1.3(.3)				335
3093		-1.3(.5)			1295						
						3125	-.3(.3)	-1.7(.3)			132
3094	1.4(.3)		•		132	3125	-.4(.3)	-1.7(.3)	-3.4(.4)		335
3094	1.1(.3)				335	3125	-.8(.4)	-1.7(.4)			657
3099		-1.9(.4)	•		132	3126	.6(.3)	-1.2(.4)	•		132
3099	1.4(.3)	-2.2(.3)	-3.8(.4)		335	3126	.7(.3)				335
3099	.9(.4)	-2.1(.4)			657						
						3127	1.0(.3)		•		132
3101	2.0(.4)				335	3127	.8(.3)				335
3101	.8(.4)				657	3127	.4(.3)				423
						3127	.5(.3)	-.7(.4)			548
3104	1.7(.4)				132	3127	.6(.4)				657
3104	1.0(.3)				335						
3104		-.4(.5)			657	3128	1.7(.3)				548
						3128	1.3(.4)				657
3102	1.5(.4)		•		132						
3102	1.7(.3)				335	3133	1.3(.3)		•		132
						3133	1.2(.3)				335
3107	1.3(.3)				335	3133	1.1(.5)				657
3107	1.2(.4)				657						
						3135	.4(.3)				335
3109	1.2(.3)	-1.2(.4)	•		132	3135	.2(.4)				657
3109	.2(.3)	-2.0(.3)	-2.9(.5)		335						
3109	.2(.4)	-2.0(.4)	-4.4(.5)		657	3136	.2(.3)	-3.6(.3)			548
						3136	-2.5(.4)	-4.1(.4)	-4.5(.5)		657
3110	1.5(.4)	-1.9(.3)			132	3136		-3.7(.4)	-4.2(.4)		1295
3110	1.2(.3)	-1.4(.4)			335						
3110	•	-.9(.5)			657	3138	-.1(.3)	-2.5(.3)	•		132
						3138	.4(.3)	-2.7(.3)	-4.2(.4)		335
4299	.9(.3)	-1.5(.3)	•		132	3138	.1(.4)	-2.5(.4)	-3.6(.5)		657
4299	•	-1.6(.4)			657						
						3139	1.6(.4)				132
3112	1.3(.3)	-1.0(.4)			132	3139	1.7(.3)				335
3112	1.4(.3)				335						
3112	1.4(.4)		-4.5(.5)		657	3140	1.4(.3)		•		132
						3140	1.2(.3)	-.9(.4)			335
3113	-.2(.3)	-1.2(.4)			132						
3113	-.5(.3)				335	3141	.6(.3)	-.8(.4)			335
						3141	.5(.4)				657.
3114	1.6(.4)				132						
3114	1.3(.3)				335	3143	1.1(.3)		•		132
						3143	.8(.3)	-1.4(.4)			335
3115	.8(.3)	-1.3(.4)			132						
3115	1.0(.3)				335	3145	1.2(.3)		•		132
						3145	1.2(.3)				335
3116	.1(.3)	-3.2(.3)	•		132						
3116	•	-3.8(.3)	-4.9(.4)		335	3147	-.9(.3)	-1.8(.3)			335
3116	-.6(.4)	-3.5(.4)	-4.0(.5)		657	3147	-1.2(.4)	-1.5(.4)			657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
3148	.9(.4)		*		132
3148	1.0(.3)	-.9(.4)			335
3148	.6(.4)				657
3150	1.0(.3)		*		132
3150	1.6(.3)	-1.0(.4)			335
3151	1.7(.4)		*		132
3151	1.5(.3)				335
3152	1.4(.4)				132
3152	1.6(.3)				335
3153	1.3(.4)		*		132
3153	1.1(.3)				335
3154	1.8(.4)				335
3154			-3.6(.4)		423
3154			-3.7(.5)		548
3154		-1.5(.4)	-4.2(.5)		657
3158	1.3(.3)		*		132
3158	1.3(.4)				657
3164	1.6(.4)				335
3164	1.3(.4)				657
3165	.8(.3)	-1.7(.3)	*		132
3165	-.2(.3)	-2.8(.3)	-3.8(.4)		335
3165	.6(.4)	-2.2(.4)	-3.6(.6)		657
3166	.9(.3)				132
3166	.1(.3)				335
3167	1.2(.4)				548
3167	1.4(.4)				657
3168	1.7(.4)				335
3168	1.1(.4)	-1.4(.4)			657
3170	1.4(.3)				132
3170	1.3(.4)				335
3173	1.4(.4)		*		132
3173	1.7(.4)				335
3173	1.8(.4)				657
3174	-.0(.3)				335
3174	-.4(.4)				657
3176	-.1(.3)	-1.4(.4)	*		132
3176	-.1(.3)	-1.5(.4)			335
3180	1.3(.3)				132
3180	1.2(.4)				335

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
3181		-.9(.4)			335
3181	*	-1.4(.4)			423
3183	1.5(.4)		*		132
3183	1.3(.4)				335
3186	.1(.3)				132
3186	-.3(.3)	-.5(.4)			335
3187	.6(.3)	-1.1(.4)	*		132
3187	1.2(.3)	-.6(.4)			335
3188	-2.7(.3)	-4.4(.3)	-5.0(.4)		132
3188	-2.4(.3)	-4.0(.3)	-4.7(.4)		335
3188	-2.6(.4)	-4.2(.4)	-4.6(.5)		657
3189	-.9(.3)	-2.8(.3)	-4.1(.4)		548
3189	-.4(.4)	-2.2(.4)			657
3189		-2.8(.4)	-3.8(.4)		1295
3193		-.9(.4)	*		132
3193		-.8(.4)	-2.1(.5)		335
3194	.9(.3)				132
3194	.5(.3)	-.3(.4)			335
3194			-3.4(.6)		1302
3196	.3(.3)				335
3196	-.0(.4)	-.9(.4)			657
4305		-.3(.4)	-3.1(.4)		335
4305		-1.3(.4)	-3.4(.4)		548

6.3 Remarks

This section lists additional associations with the GL sources with the "nebular" objects (NGC, IC, etc.) and with version RA40 of the Master List of Radio Sources compiled by Dixon[25] which is an update of the earlier work of Dixon. Associations are made if the catalog position is within the right ascension and declination error boxes listed in the main table for the GL source. For a given source in the "nebular" objects are listed first and there the radio sources are listed in order of proximity to the GL positions.

The associations with the radio catalog were made to provide the catalog user with supplemental information which may be of value. No attempt was made to prioritize the radio catalog references in terms of physical significance with respect to the source.

25. Dixon, R.S. (1970) Ap. J. Suppl. 20.

REMARKS

7	BRIGHT NEB
104	W02.DA021.DGVW004.5C3.110.0A035.3
123	PKS0050-014
205	VR061.01.02.DW0119+61.4CP61.02.0C+633
245	B2.2 0140+28
254	MSH 01-118
4019	4C+00.08
320	NGC 884
326	MH 133.7+01.3.KLNS 04
328	4C+62.06.MH 133.8+01.4
355	B2.3 0233+348
359	SHARP. 195
377	LHE070
491	4CP71.04.N871.06
517	OE+570
545	DA125.OF+408.4C+42.11.LHE106.MW 0404+42.3C103.0.CTA 28.VR042.04.01
550	DA127.4C+51.12.BP018.4CP51.12.CR 50T068
4045	MSH 04-204.MC1 0413-210.OF-223.PKS0413-21
585	SHARP. 222
612	OF+161
624	B2 0441+32
635	B2.3 0446+37
671	OF+698
757	HFE 2
776	LHE151
781	GS 208.5-19.2
782	OA192
779	NGC 1976.W10.GS 209.0-19.4.GM 01.CTA 37.PKS0532-05.KLNS 11.MH 209.0-19.4.DGVW026
800	SHARP. 240
4055	ALM B
807	GM 02.GS 206.5-16.4.DA188.PKS0539-01.NRA0222.KLNS 12.MH 206.5-16.4
4056	MC 77
877	PKS0605-08.0H-009
895	PKS0609+22
896	OH+116.DCC192.6-00.0
918	OH+130.1
934	OH+138.4C+14.18.4CP14.18.DA209.NRA0234
947	OH+143
971	OH+057.5
977	NGC 2260
1041	DW0654-14.0H-190.4
4068	OI+505
1070	BRIGHT NEB
1130	OI+245.B2.2 0727+27
1160	OI+361
1162	MC1 0737-215
1191	GC0744+33
1253	4C-04.27
1260	MC1 0827-213
1299	4C+06.33
1360	4C+70.07.N870.09
1388	NGC 3034.DA277.4CP69.12.NRA0341.4C+69.12
4098	PKS0952-75
4101	DCC282.0-01.2.KES09.GS 282.0-01.2.SG 282.0-01.2.GM 05.BM 282.0-01.1
1399	NGC 3130
1403	B2 1012+30

REMARKS

4103 BM 283.9 00 9
4104 GS 284.0-00.9,DCC284.0-C0.9,SG 284.0-01.0
4107 SG 284.3-00.3,GS 284.3-00.3,GM 06,BM 284.3-00.3,DCC284.3-00.3,KES10,GN10
4109 DCC285.3-00.0,SG 285.3-00.0,GS 285.3-00.0,KES11,BM 285.2+00.0
4110 IC 2599,DCC296.2-00.2,BM 286.2-00.2
4114 NGC 3372,GM 08,SG 287.6-00.6,DCC287.5-00.6
4116 DCC287.9-00.8,SG 288.0-00.8
4119 TD 289.1-00.4,DCC289.1-00.4,SG 239.1-00.4,GS 289.1-00.4,DKM289.1-00.4,BM 289.1-00.3
4120 BM 289.8-01.2,GS 289.8-01.1,SG 289.8-01.2
4122 GS 289.9-00.8,DKM289.9-00.8,KOM04,TD 289.9-00.8,SG 289.9-00.8
4123 MSH 11-401
4124 GS 291.3-00.7,GM 09,SG 291.3-00.7,TD 291.3-00.7,BM 291.3-00.7,KES14
4125 TD 291.2-00.3,GS 291.2-00.3,SG 291.2-C0.3,MSH 11-602
4126 SG 291.6-00.5,BM 291.6-00.5,TD 291.6-00.5,GM 10,GS 291.6-00.5,KES15
4127 TD 291.8-00.7,GS 291.9-00.7,SG 291.9-00.7
4132 TD 293.7-01.6
4134 GN16,TD 294.8-01.7
4135 DKM295.1-00.6,SG 295.2-00.6,TD 295.2-00.6,BM 295.2-00.6,KES16,GS 295.2-00.6
4144 GS 298.2-00.8,TD 298.2-00.8
4146 SG 298.2-00.3,BM 298.2-00.3,TD 298.2-00.3,GS 298.2-00.3,GM 11
4148 TD 298.9-00.4,SG 238.9-00.4,GS 298.9-00.4,BM 298.9-00.4
4152 SG 301.0+01.2,GS 301.0+01.2,TD 301.0+01.2
4154 SG 301.1+01.0,GS 301.1+01.0,TD 301.1+01.0
4163 GM 13,TD 305.3+00.2,GS 305.3+00.2,SG 305.2+00.2
4164 BM 305.6+01.6,TD 305.7+01.6
4165 SG 305.6+00.0,GS 305.6+00.0,TD 305.6+00.0,GM 15
1625 4CP55.26,CR 54T221.0P+543
4172 DTG307.6-00.3,DKM307.6-00.3,BM 307.6-00.3
4174 SG 308.6+00.6,GS 308.7+00.6,DTG308.7+00.6
1650 IC 4330
1659 PKS1252+16.0P+187
4185 DTG311.0+00.4
4188 BM 311.5+00.4
4190 SG 311.9+00.1,GS 311.9+00.1,DTG311.9+00.1,BM 312.0+00.1
4195 BM 314.3+00.4,SG 314.2+00.4,GS 314.2+00.4,DTG314.2+00.4
4199 SG 316.8-00.1,GS 316.8-00.1,GM 16,DTG316.8-00.0,BM 316.8-00.0
4207 GS 319.4-00.0,SG 319.4-00.0,BM 319.4+00.0,DTG319.4+00.0
4208 SG 319.2-00.4,KES21,BM 319.2-00.4,DTG319.2-00.3,GS 319.2-00.4
4209 DTG320.2+00.8,GS 320.2+00.8,KES22,SG 320.2+00.8,BM 320.2+00.8
4210 DTG320.7+00.2,BM 320.7+00.2
4213 BM 321.1-00.5,GS 321.0-00.5,SG 321.0-00.5,DTG321.1-00.5,GS 321.1-00.5
1773 OR+142
1777 4C+03.34
1845 SHARP, 9
4227 OS-055
1887 PSR1642-03
1964 MSH 17-209
1983 OT-052
2003 W24,DGVW096,SK000.0-00.0,MM 07,LMH 09,DM 000.0+00.0,ADG000.0-00.0,BTD359.9-00.0,AMWW 33,MH 000.0-00.0,MUL03
2004 CTB 42,MH 000.2-00.1,DM 000.2+00.0
2006 DM 000.5+00.0
2010 BTD000.4-00.8
2048 HFE 44
2050 NGC 6514,GD 007.0-00.3,SG 007.0-00.3,ADG007.0-00.2
2051 ADG008.1+00.2,GD 008.1+00.2
2052 HFE 46,CTB 46,MH 006.0-01.2,SG 006.0-01.2,KES58,GM 37,GS 006.0-01.2,ADG006.0-01.2,GD 006.0-01.2

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4235 SG 010.3-00.2,GS 010.3-00.1,ADG010.3-00.1,GD 010.3-00.2,MH010.3-00.2,GM 38
2078 GS 010.2-00.3,GD 010.2-00.3,ADG010.2-00.3,GM 39,KES62,SG 010.2-00.3,MH 010.2-00.3
2094 ADG013.9+00.2,GD 013.9+00.3
2105 ADG014.6+00.1,GD 014.6+00.0
2107 GD 012.5-01.1
2108 SG 018.2+01.9
2113 GD 018.7+02.0,GS 018.7+02.0,SG 018.7+02.0,AMWW 41,KLNS 31
2117 NGC 6611,GD 017.0+00.9,GS 017.0+00.9,GM 41,SG 017.0+00.9
2124 IC 4707,GD 015.0-00.7,GM 43,GS 015.0-00.7,KES66,ADG015.1-00.7,MH 015.0-00.7,KLNS 33,MM 20,W38
2147 GD 018.2-00.3,ADG018.2-00.3
2153 AMWW 44,ADG019.1-00.3,GD 019.0-00.3,CTB 53
2157 GD 018.9-00.4,ADG018.9-00.4
2161 GD 019.6-00.2
2169 ADG020.7-00.1,KES68,GD 020.7-00.1
2173 OU-046
2177 SG 028.8+03.5,ADG028.8+03.5,GS 028.8+03.5,KES74,DA453,KLNS 36,OU-048.2,NRAO567
2188 ADG022.8-00.3,GS 022.8-00.5,SG 022.8-00.2,GD 022.8-00.3
2189 4CP14.69B
2190 GD 024.5+00.5,SG 024.5+00.5
2193 GS 023.3-00.3,W41,LMH 29
2194 GD 023.9+00.1,GS 024.0+00.2,ADG023.9+00.2,SG 024.0+00.2
2195 GD 023.4-00.2,SG 023.4-00.2,GS 023.4-00.2,ADG023.4-00.2
2200 SG 024.8+00.1,ADG024.8+00.1,GD 024.8+00.1,CTB 57
2202 LMH 30,GD 024.7-00.1,ADG024.7-00.1,SG 024.7-00.2
2203 SHARP, 59,GD 024.5-00.2,SG 024.5-00.2
2207 GD 025 8+00.2,ADG025.8+00.2
2210 GD 025.4-00.2,NRAO572,SG 025.4-00.2,GS 025.4-00.2,ADG025.4-00.2,KES72
2211 ADG026.6+00.4,GD 026.5+00.4
2223 BK 026.6-00.1,ADG026.6-00.1
2238 BK 028.8+00.2
2245 BK 029.9-00.0,GS 029.9-00.0,ADG029.9-00.0,NK1.13,SG 029.9-00.0
2251 BK 030.7-00.0,GS 030.8-00.0,ADG030.8-00.0,NK1.19,KLNS 41,MH 030.8-00.0,MM 35,KES76,SG 030.8-00.0
2258 ADG031.4-00.3,BK 031.4-00.2
2271 NK1.35,HR 08,ADG034.3+00.1,NRAO584
2284 ADG040.5+02.5
2303 GS 037.9-00.4,HR 26,DWC037.9-00.3,ADG037.8-00.3,SG 037.9-00.4
2304 GS 035.2-01.8,KLNS 45,HR 12,SG 035.2-01.8,HC 23,NK1.55,ADG035.2-01.7
2334 GS 043.2-00.0,GM 45,HC 27A,ADG043.2-00.0,DWC043.2+00.0,HR 46,MM 46,CTB 68,MH 043.2+00.0,NRAO598
2341 HR 50,DWC045.1+00.1,NRAO600,ADG045.1+00.1,SG 045.1+00.1
2345 DCC045.5+00.1,DKM045.5+00.1,ADG045.5+00.1,DWC045.4+00.1,SG 045.5+00.1,GS 045.5+00.1,NRAO601,HR 51
2359 ADG046.5-00.2,DCC046.5-00.2,NRAO605,DWC046.5-00.2
2371 GS 048.6+00.0,WY 048.6+00.0,DCC048.6+00.0,ADG048.6+00.0
2375 DCC052.0+01.6
2376 GM 47,GS 048.9-00.3,DKM049.0-00.3,DCC049.0-00.3
2378 LHE471,GS 049.4-00.3,GM 50
2379 GS 049.2-00.3,GM 49,W51
2381 ADG049.5-00.4,GS 049.5-00.4,GM 51,DCC049.5-00.4,BEN53,3C400.0,MH 049.5-00.4,HC 35A,WY 049.4-00.4
2408 ADG054.1-00.0,DCC054.1-00.1
4251 PK 064+05.1
2420 B2 1933+33
2454 B2.2 1944+24,DCC060.9-00.1
2455 B2.2 1944+25C,PKS1944+25.0
2460 B2.2 1947+26A
4256 CTD118,B2.2 1952+27,ADG064.2-00.5
2492 B2 1959+33A
2495 PK 070+01.1,ADG070.3+01.6

	REMARKS
2534	OW+221.2,VR026.20.01
2544	BRIGHT NEB
2557	BRIGHT NEB
2561	BRIGHT NEB
2565	SHARP, 108,PD04
2569	CR 50T230
2578	YW34.PD06
2584	B2.3 2025+37
2586	DR07
2593	PD09
4267	PD13
2609	BRIGHT NEB
2612	NK2.12,YW45
2624	DR21
2636	PD25
2643	NGC 6960
2679	OW+392
2690	NB82.30
2695	BRIGHT NEB,4CP67.34
2713	NK2.56,PK 084-03.1
2781	LHE506
2836	OY-301
2900	B2 2222+30C
2911	4C+08.67,4CP08.67,OY+045
2938	NGC 7357
2963	VR059.22.02
2987	NGC 7419
3000	OY+692
3008	OY+099
3020	OZ+505
3079	NGC 7635
4301	OZ+572
3159	VR020.23.03

6.4 Reference List from OSU Radio Catalog Version RA 36

The list of references at the end of the remarks section defines the abbreviations used in the remarks and is taken from the master reference list supplied by Dixon[25] with the Ohio State University Master List of Radio Sources.

Survey Prefix	Reference
ADG	Altenhoff, W.J., Downes, G.S., Goad, L.E. et al (1970) Astrophys. Supplement No. 1.
ALM	Lemarne, A. (1968) M.N.R.A.S. 139:461.
AMWW	Altenhoff, W.J., Mezger, P.G., Wendker, H.J. and Westerhout, G. (1960) Publ. Univ. of Bonn. Obs., No. 59.
BEN	Bennett, A.S. (1963) M.N.R.A.S. 127:3.
BK	Beard, M. and Kerr, F.J. (1969) Austr. J. Phys. 22:121.
BM	Manchaster, B.A. Aus. J. Phys. (1969) Astrophys. Suppl. No. 12.
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) Aust. J. Phys. Astrophys. Suppl. No. 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.
B.2.2	Colla, G., Fanti, C., Fanti, R., Ficarra, A., Formiginni, L., Gandolfi, E., Lari, C., Marono, B., Padrielli, L., and Tomasi, P. (1972) Astron. Astrophys. Suppl. 1:1.
B.2.3	Colla, G., Fanti, C., Fanti, R., Ficarra, A., Formiginni, L., Gandolfi, E., Lari, C., Marono, B., Padrielli, L., and Tomasi, P. (1973) Astron. Astrophys. Suppl. 11:291.
CR	Crowther, J.A. (1966) Ph. D. Dissertation, Cambridge Univ.
CTA	Harris, D.E. and Roberts, J.A. (1960) Pub. A.S.P. 72:237.
CTB	Wilson and Bolton (1960, 1963) Cal. Tech. Rad. Obs. Report No. 2.
CTD	Kellermann and Read (1965) Cal. Tech. Rad. Obs. Report No. 2.
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. No. 25.
DGVW	Davis, M.M., Gelato-Volder, L. and Westerhout, G. (1965) B.A.N. 18:42.
DKM	Milne, D.K. (1971) Austr. J. Phys. 24.
DM	Downes, D. and Maxwell, A. (1966) Ap. J. 146:653.
DR	Downes, D. and Reinhart, R. (1966) Ap. J. 144:937.
DTG	Day, G.A., Thomas, B.M.A., and Goss, W.M. (1969) Austr. J. Phys., Astrophys. Suppl. No. 11.
DW	Davis, M.M. (1967) B.A.N. 19:201.
DWC	Day, G.A., Warne, W.G., and Cooke, D.J. (1970) Austr. J. Phys., Suppl. No. 13.

GC	Davis, M.N. (1971) A.J. 76:980.
GD	Goss, W.M. and Day, G.A. (1970) Austr. J. Phys. Astrophys. Suppl. 13.
GM	Gardiner, F.F. and Morimoto, M. (1968) Austr. J. Phys. 21:881.
GN	Nicolson, G.D. (1965) Pub. A.S.P. 77:260.
GS	Goss, W.M. and Shaver, P.A. (1970) Austr. J. Phys., Astrophys. Suppl. 14, 1.
HC	Holden, D.F. and Caswell, F.L. (1969) M.N.R.A.S. 143:407.
HR	Hughes, V.A. and Rutledge, D. (1969) A.J. 74:604.
KES	Kesterven, M.J.L. (1968) Austr. J. Phys. 21:369.
KLNS	Kuzimin, A.D., Levchenko, M.T., Noskova, R.F. and Salomonobich, A.E. (1961) Soviet Astronomy 4:909.
LHE	Long, R.F., Haseler, F.B., and Elsmore, B. (1963) M.N.R.A.S. 125:313.
LMH	Large, Mathewson and Haslam (1961) M.N.R.A.S. 123:113.
MC	McGee, R.X., Brooks, J.W., and Batchelor, R.A. (1972) Austr. J. Phys. 25:581.
MCI	Davies, F.T. et al (1973) Austr. J. Phys., Astrophys. Suppl. 28.
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