5-3-2007

MINIMO: A Search for Mini Proper Motion Stars in the Southern Sky

Charlie Thomas Finch

MINIMO: A SEARCH FOR MINI PROPER MOTION STARS IN THE SOUTHERN SKY

by

Charlie T. Finch

Under the Direction of Todd J. Henry

Abstract

I report 1684 new proper motion systems in the southern sky (declinations $-90°$ to $-47°$) with $0\farcs50\ \mathrm{yr}^{-1} > \mu \geq 0\farcs18\ \mathrm{yr}^{-1}$. This effort is a continuation of the SuperCOSMOS-RECONS (SCR) proper motion search to lower proper motions than reported in Hambly et al. (2004); Henry et al. (2004); Subasavage et al. (2005a,b). Distance estimates are presented for the new systems, assuming that all stars are on the main sequence. I find that 34 systems are within 25 pc, including three systems — SCR 0838-5855, SCR 1826-6542, and SCR 0630-7643AB — anticipated to be within 10 pc. These mini-motion (MINIMO) discoveries constitute a more than ten-fold increase in new systems found in the same region of sky searched for systems with $\mu \geq 0\farcs50\ \mathrm{yr}^{-1}$, suggesting a happy hunting ground for new nearby slower proper motion systems in the region just north (declinations $-47°$ to $0°$), much of which has not been rigorously searched during previous efforts.

Index Words: Stars: Proper Motion, Solar Neighborhood, Distances, Statistics, Surveys, Astrometry

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A Thesis Presented in Partial Fulfillment of Requirements for the Degree of

Master of Science

in the College of Arts and Sciences

Georgia State University

2007

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Electronic Version Approved:

Office of Graduate Studies
College of Arts & Sciences
Georgia State University
May 2007

Dedication

This thesis is dedicated in loving memory of my grandfather Charlie Clyde Smith, to whom I not only inherited my name but also my good looks. I miss you...

Acknowledgments

Probably the hardest part of a thesis is trying to acknowledge everyone who has contributed to and made this part of my life more enjoyable during the process. It is a pleasure to show my gratitude to the many people who have made this thesis possible.

My family has always been a great support throughout my life and without them I could have never made it to where I am today. I would like to thank my parents for their encouragement and support, both emotional and monetary, and their uncanny ability to put up with me. I also would like to thank my grandfather for whom this thesis is dedicated for always believing in me and everything that I do. My thanks also go out to the rest of my family who have been the backbone of my support.

Many thanks go out to all my friends who have supported me in all my decisions and have always been there for me. In particular, I would like to thank Nicole Geiger, without her friendship and support I would have never finished my degree. To my girlfriend Amelia Griffith, I would like to say thank you for putting up with my long nights of working and for your encouragement.

I need to thank Georgia State University for giving me the opportunity to explore the research opportunities available at this institution. I give my gratitude to Dr. Douglas Gies and Dr. Harold McAlister for agreeing to serve on my thesis committee and thoroughly reading through my thesis for suggestions. To my supervisor Dr. Todd Henry, I give many thanks for giving me the opportunity to prove that this thesis was not beyond my reach and without whom this thesis would have not been possible.

Without the support, encouragement and friendship from the many faculty and staff at the Georgia State Physics and Astronomy department, time spent on this thesis would not have been as manageable. I am honored to have had the opportunity to work with them and thank them for everything they have contributed. Finally I would like to thank Nigel C. Hambly, John P. Subasavage and Jao Wei-Chun for their many contributions that have made this search possible.

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Abbreviations and Acronyms

APS	Automated Plate Scanner
CCD	Charge-Coupled Device
CDC	Control Data Corporation
CPM	Common Proper Motion
CTIO	Cerro Tololo Inter-American Observatory
ESO	European Southern Observatory
FWHM	Full-Width Half-Maximum
GSC	Guide Star Catalog
HPM	High Proper Motion
HST	Hubble Space Telescope
IRAF	Image Reduction and Analysis Facility
LEHPM	Liverpool-Edinburgh High Proper Motion
LHS	Luyten Half Second
LMC	Large Magellanic Cloud
MINIMO	Mini Proper Motion
MOTION	Fast Proper Motion
NLTT	New Luyten Two-Tenths
NOMAD	Naval Observatory Merged Astrometric Dataset
RPM	Reduced Proper Motion
SCR	SuperCOSMOS-RECONS
SD	Subdwarf
SIM	Space Interferometry Mission

SIPS	Southern Infrared Proper Motion Survey
SLOWMO	Slow Proper Motion
SMC	Small Magellanic Cloud
SSS	SuperCOSMOS Sky Survey
TSN	The Solar Neighborhood
UKST	UK Schmidt Telescope
USNO	US Naval Observatory
WD	White Dwarf
YPC	Yale Parallax Catalogue
2MASS	Two Micron All Sky Survey

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Introduction

Proper motion is the measure of a celestial object's angular motion perpendicular to the observer's line of sight, resulting in an apparent change in position when compared to more distant celestial objects. This motion is a projection onto the celestial sphere of a star's true motion in space relative to the Sun. To measure a star's actual velocity through space relative to the Sun, we have to measure the tangential velocity (across our line of sight) and radial velocity (toward or away from us). The radial velocity can be determined by measuring the Doppler shift in the object's observed spectral lines. The standard relation between the tangential velocity (V_{tan}) and proper motion is

$$V_{tan} = 4.74 \mu d.$$

Therefore the observed proper motion (μ) in arc seconds per year is inversely related to the distance (d) in parsecs, meaning that if two objects exhibit the same tangential velocity, the closer one will reveal a higher proper motion. This is why high proper motions can be a good indicator for detecting nearby stars. Using this assumption, the closer a star is to the observer, the faster the star's relative motion will be when compared to far away stars, which seem to move slowly or not at all over relatively short timescales. Hence, for asteroids, comets, and planets, proper motion can be observed in as little as a few hours. However, this is only a piece of the equation. Slower proper motions do not always mean larger distances. A star's motion in space is rarely perpendicular to the observer's line of sight, so proper motions are observed to be slower, or not observed at all, and could hide some nearby gems.

1.1 Early Discoveries

From the mid-eighteen hundreds to the mid nineteen hundreds, three discoveries were made of stars moving faster than $7\farcs0$ yr^{-1}. These high proper motion stars have held the test of time and, as of this writing, still have the three fastest proper motions of any known star.

1.1.1 Barnard's Star

In 1916, Edward Emerson Barnard noticed by comparing photographic plates taken in 1894 and 1916 that he had found a small star with large proper motion (Barnard 1916). Even today, as of writing this thesis (17 February 2007), Barnard's Star has the largest proper motion of any known star. Named after the discoverer, with $\mu = 10\farcs35$ yr^{-1} and parallax of $0\farcs54553 \pm 0\farcs00029$ from an average of Hipparcos, Yale Parallax Catalogue (YPC) and Hubble Space Telescope (HST) data, Barnard's star is the second closest star system after the Alpha Centauri system, at 1.83 pc as listed by the RECONS one hundred nearest star systems. This red dwarf, with a visual magnitude of 9.54 mag and spectral type M4.0 V (Kirkpatrick et al. 1991) is not visible to the naked eye. The small dim star has a mass estimated to be 17 percent the mass of the Sun, using relations from Henry & McCarthy (1993) and Henry et al. (1999), and has 0.35 percent of the Sun's bolometric luminosity (Dawson & De Robertis 2004). It has been given the variable star designation V2500 Ophiuchus after a 1998 flare that has been investigated by Paulson et al. (2006).

Barnard's Star has been studied for almost a century and is considered a Tier 1 target star for the Space Interferometer Mission (SIM), which will search for planets around parent stars. Peter van de Kamp in 1969 published his initial data pointing to a companion planet revolving around Barnard's Star (van de Kamp 1969). Later,

Gatewood & Eichhorn (1973) looked at photographic plates taken with the 20-inch refractor at Wesleyan University's Van Vleck Observatory and the 30-inch refractor at Allegheny Observatory in Pittsburg and found no evidence of any wobble in proper motion. Investigations by Hershey (1973) have shown that van de Kamp might have been looking at bad data due to an adjustment of the objective lens and change in emulsion of the Sproul 24-inch refractor.

1.1.2 Kapteyn's Star

With $\mu = 8\farcs67\ \mathrm{yr}^{-1}$ and parallax of $0\farcs25527 \pm 0\farcs00086$ from an average of Hipparcos, YPC and HST data, Kapteyn's Star is the second fastest proper motion star and the twenty fifth closest star system, at 3.92 pc as listed by the RECONS one hundred nearest star systems. Discovered in 1897 by Jacobus Cornelius Kapteyn and Robert Innes, Kapteyn's Star had the largest proper motion of any star at the time, but later was pushed aside with the discovery of Barnard's Star in 1916. Kapteyn discovered, while looking at photographic plates at the Cape Observatory in South Africa, that one star was not at its documented position on the photographic plates (Kruesi 2006). Robert Innes, who was an assistant at the observatory looked for the star and found a star matching the description but slightly east of where it should have been (Kruesi 2006). Originally catalogued as Cordoba Zone 5 hours 243 for its position in the sky, it was later re-named after Kapteyn's death to Kapteyn's Star, probably because he was the first to notice it changing position from photographic plates. With a visual magnitude of 8.84 mag, this M1.5 subdwarf and halo star (Gizis 1997) is not visible to the naked eye. With such a close proximity to the Sun, Kapteyn's Star has been chosen, like Barnard's Star, as a Tier 1 target star for SIM, which will search for planets around parent stars. Its mass has been estimated to be 39 percent that of the Sun using relations from Henry & McCarthy (1993); Henry et al. (1999). Kapteyn's

Star is likely the closest halo star (Krawchuk et al. 2000).

1.1.3 Groombridge 1830

Groombridge 1830 has $\mu = 7\farcs06$ yr^{-1} with a parallax of $0\farcs10978 \pm 0\farcs00070$ from an average of Hipparcos, YPC and HST, at 9.11 pc Groombridge 1830 is the third fastest proper motion star. Discovered in 1842 by Friedrich Wilhelm August Argelander after he noticed the exceptionally large proper motion, Groombridge 1830 was previously listed in Stephen Groombridge's "A Catalog of Circumpolar Stars, Reduced to January 1, 1810". With a visual magnitude of 6.45 mag, this Population II subdwarf of spectral type G8 (Smith et al. 1992) is on the edge of naked eye visibility. Groombridge 1830, an old halo star, is about 0.6 the mass of the Sun and one-tenth of the solar metallicity, with an effective temperature of 5170 K (Smith et al. 1992).

Groombridge 1830 had many flare observations that were thought at the time to possibly be coming from a companion star. This proposed companion, was not detected on any photographic plates, and it was later theorized that the flarewas an exceptionally large mass ejection, now known as a superflare, coming from the primary star itself (Schaefer et al. 2000). These flares can reach energies 100 to 10 million times that of typical solar flares, making it unlikely for any habitable Earth-like planet. Typical solar flares have energies on the order of 10^{29} ergs, although the flares recorded on Groombridge 1830 by Schaefer et al. (2000) reach 10^{35} ergs for a duration of 18 minutes.

1.2 Proper Motion Surveys

1.2.1 Why Are They Important?

Stars with the same motion in space typically originate from the same star forming cloud; this is particularly the case if found in the same region of the sky. Proper motion studies can be used to locate clusters, determine cluster membership and identify moving groups. This determination of membership is necessary to study the spatial distributions of cluster members, study the morphology of the color-magnitude diagram, and investigate the luminosity and mass functions (Jones 1997). Furthermore, accurate proper motions with radial velocities can be used to determine the space motions of stars, cluster members or a cluster as a whole. These motions can also be used to identify unusual stars that travel in orbits that are peculiar when compared to "normal" background stars. As mentioned earlier, high proper motions can also be used to identify nearby stars, because they tend to move faster than background stars that are farther away. Close dim stars with low luminosities are typically white dwarfs if bluish and brown dwarfs or M-stars if reddish. These stars can be difficult to identify, but make up the majority of stars discovered through proper motion surveys and in fact, the majority of all stellar objects in the universe.

Using proper motions, one can construct a Reduced Proper Motion (RPM) diagram that can be useful in picking out white dwarf and subdwarf targets. The RPM diagram takes into account that stars with smaller distances have larger proper motions. As mentioned earlier, this is not always the case, but as can be seen in § 6.2 gives a slight advantage over a color-magnitude diagram for separating the luminosity classes. In my view, the importance of these catalogues is of no question, whether it be to further our understanding of galactic structure or merely to find fixed point

sources to set up a reference frame of stars. This ideal that Science is a body of cumulative data that builds upon itself, feeding on knowledge and learning from past endeavors, makes all scientific accomplishments worth sharing with the world.

1.2.2 Historical Beginnings

Edmund Halley in 1718 noticed that Sirius, Aldebaran, Betelgeux, and Arcturus were not in the observed locations charted on ancient Greek charts by Ptolemy nearly 1600 years earlier (Campbell 1913). This led him to deduce that these stars were in fact moving, which ultimately led to the discovery of proper motion (Luyten 1979). By the 1800's, proper motion study was one of the most popular astronomical topics being researched around the world. This discovery has led to the publication of many proper motion catalogues. In chronological order and in no way complete I have done my best to list some of these historical catalogues below.

In 1892, Jermain Gildersleeve Porter published "A catalogue of stars with proper motion of half a second and upwards" (Porter 1892) containing 301 entries. This catalogue, as far as I can tell, is a subset of "A catalogue of 1340 proper motion stars" (Porter 1892). Porter's catalogue is a list of high proper motions determined from a variety of sources. Fourteen years later, Hermann Kobold published a catalogue of proper motion stars with stars having proper motions greater than $0\farcs5$ yr^{-1} (C. 1906) and this catalog was the standard until 1914. In 1915, a comprehensive "List of Stars with Proper Motions Exceeding $0\farcs5$ yr^{-1}" containing 533 objects was published by van Maanen (1915). A supplement was published a few months later, which mostly contained absolute proper motions (from meridian circle observations). This supplement deleted 20 and added another 18 stars to the list (Luyten 1979). In 1919 Bossert published a catalogue of 5671 stars (Bossert & Schulhof 1919), which like the catalogues of Porter and van Maanen is a list of stars with high proper

motions determined by a variety of sources. Max Wolf in 1919 also published his catalogue "Katalog von 1053 staerker bewegten Fixsternen" (Wolf 1919) where he examined around 75 regions 7 x 7 degrees square in the northern hemisphere using the Bruce 16 inch telescope (Giclas 1958). The Ross Survey (Ross 1925) published by Frank E. Ross contained objects found by comparing 238 northern fields with photographic plates taken by Professor E. E. Barnard about 20 years earlier using the Bruce photographic doublet of the Yerkes Observatory (Ross 1925). These fields covered 170 square degrees with only the central 50 square degrees considered useable by Ross (Giclas 1958). Comparison of the photographic plates was done with the ZEISS Stereocomparator using the blink attachment with proper motions relative to one comparison star (Ross 1925).

1.2.3 Luyten & Giclas

The pioneering surveys of (Giclas et al. 1971, 1978) and (Luyten 1979, 1980)[1] have provided most of the proper motion systems catalogued, even as massive computer searches of digitized photographic plates have become possible.

After the Bruce proper motion survey (Luyten 1938), which listed 28,535 stars south of declination -50° was completed in 1937, Luyten published his catalogue of stars with motions larger than $0\farcs5$ yr^{-1} (Luyten 1955). The famous *Luyten Half Second Catalogue (LHS)* (Luyten 1979) contains previously discovered proper motion stars as well as new motions from the Palomar Sky Survey. Luyten used the POSS I E plates and his own Luyten Red E plates for his northern survey. The comprehensive *New Luyten Two-Tenths Catalogue (NLTT)* contains 58,693 proper motion objects with $\mu \geq 0\farcs18$ yr^{-1} and is in essence an extension of the LHS catalogue to lower proper motions. Luyten, realizing the extraordinary amount of time it would take to

[1]VizieR Online Data Catalogue, I/98A (Luyten 1995)

manually blink 936 plates, had engineers from Control Data Corporation build the first computer controlled measuring engine known as the CDC/Luyten machine, and it was used to produce both the LHS and NLTT catalogues (Humphreys et al. 1997). The CDC/Luyten machine has been modernized and refurbished, and is now called the Automated Plate Scanner (APS).

Henry L. Giclas started work on his proper motion survey in 1957 working at the Lowell Observatory and stopped in 1975. Working with the 13-inch photographic telescope, Giclas compared earlier plates from around 1928 taken during the Pluto search with plates he continuously took as the survey progressed to look for stars that had moved from one epoch to the next. This gave Giclas an epoch spread of about 28 years at the start of his search to about 47 years by the end. Like Luyten, he realized that manually blinking all the plates would take a lifetime, so he used a projection blink comparator instrument that was modified after receiving it from the builders to have better quality condensing lenses, slow motion controls and an adjustable position angle circle (Giclas 1958). The *Lowell Proper Motion Survey 8991 - Northern Stars with* $\mu \geq 0\farcs27\ yr^{-1}$, is a summary of many papers published from 1958 to 1970 (Giclas et al. 1971). The *Lowell Proper Motion Survey - Southern Hemisphere* lists of 2758 stars with $\mu \geq 0\farcs20$ yr^{-1}, and provides a summary of many papers published from 1958 to 1978 (Giclas et al. 1978).

1.2.4 Surveys Relevant to This Search

Many new high proper motion surveys have been carried out using new techniques, with each one complementing the work of Giclas and Luyten. In chronological order, surveys that sampled the sky south of declination $-47°$ (the region relevant to the survey reported here) include (1) seven papers covering various portions of the southern sky by Wroblewski and collaborators who used photographic plates (Wroblewski &

Torres 1994), (2) UKST survey plates of 40 survey fields by Scholz and collaborators (Scholz et al. 2000, 2002), (3) a survey of the South Galactic Cap down to $R_{59F} = 19.8$ (Oppenheimer et al. 2001), (4) the machine-selected catalogue of 11289 objects from SuperCOSMOS R-band material generated by Pokorny et al. (2004), (5) the second US Naval Observatory (USNO) CCD Astrograph Catalog released in 2003 July (Zacharias et al. 2004a), (6) our own SuperCOSMOS-RECONS (SCR) proper motion search of the entire southern sky (Hambly et al. 2004; Henry et al. 2004; Subasavage et al. 2005a,b), which uses plates with all four emulsions, (7) the Naval Observatory Merged Astrometric Dataset (NOMAD) contains astrometric and photometric data for over 1 billion stars derived from the Hipparcos, Tycho-2, UCAC2, and USNO-B catalogs (Zacharias et al. 2004b), (8) the southern infrared proper motion survey (SIPS) (Deacon et al. 2005), which uses a combination of Two Micron All Sky Survey (2MASS) data and SuperCOSMOS I band images, and (9) Lépine's SUPERBLINK survey of a portion of the southern sky (Lépine 2005). The Calan-ESO survey (Ruiz et al. 2001), which identified proper motions in 14 ESO areas of the southern sky, did not reach as far south as declination $-47°$ (but one of the three ESO regions in Ruiz et al. (1993) did reach south of $-47°$, yielding 39 objects). In addition, Lépine's continuing SUPERBLINK survey will provide a vast database of proper-motion systems down to $0\farcs15$ yr^{-1}. He has already published the northern portion of the survey, which yielded 61,977 objects (Lépine & Shara 2005).

Previously, the SCR survey focused on the faster proper motions in hopes of finding new nearby stars. In this new edition of the investigation of the solar neighborhood, we continue the search for nearby stars by focusing our efforts on mini-motion (MINIMO) systems with proper motions between $0\farcs50$ yr^{-1} and $0\farcs18$ yr^{-1}. The likelihood that a slow proper motion system is nearby is far lower than a fast proper motion system. Nonetheless, the much larger number of slow proper motion systems

discovered provides an extensive dataset for Galactic structure analyses, yields many candidates for followup work, and reveals a few nearby gems that move little relative to the Sun.

The goal since the beginning of the SCR search has been to complete a comprehensive proper-motion survey of the neglected southern sky. Adding results reported here, we have searched the sky from the south celestial pole to declination $-47°$ for objects with $10\farcs00\ \mathrm{yr}^{-1} \geq \mu \geq 0\farcs18\ \mathrm{yr}^{-1}$, where the lower cutoff was chosen to match that for the NLTT survey.

1.3 Goals and Motivation

My motivation for writing this thesis has changed slightly from when I first began. As I mentioned earlier, I have no doubt that proper motion surveys are of great importance to the astronomical community. This however, was something that became more apparent as my work progressed. My main focus when starting this survey was to learn more about proper motion surveys, complete the SCR survey of the southern sky and of course, to obtain my Master's degree. What I quickly found out was that I would not be able to complete the MINIMO survey of the entire southern sky and that I would lear more from this project than expected.

What has truly attracted me to this work is the combination of observational and data reduction methods required for this project. The techniques I have learned have provided me with a wealth of experience and information that I will use throughout my professional career. The photometric, spectroscopic and astrometric techniques that I have learned, have fueled my interest in parallax work. This survey has brought with it a better understanding of close faint stars with low luminosities, which happen to make up the majority of stellar objects in the universe. My goal, which was to

complete the SCR survey, has in return expanded my knowledge of nearby stars and helped me obtain fundamental skills associated with photometry, spectroscopy, and astrometry.

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Search Criteria

I introduce clear nomenclature here in an effort to sort three categories of systems revealed during the SCR proper motion search. MOTION systems have $\mu \geq 1\farcs00$ yr^{-1} (Hambly et al. 2004). The $1\farcs00$ yr^{-1} cutoff is convenient and has been studied in detail by Jao (2004). SLOWMO systems have $1\farcs00$ yr^{-1} $> \mu \geq 0\farcs50$ yr^{-1} (Subasavage et al. 2005a,b) . The $0\farcs50$ yr^{-1} cutoff has been selected to match the famous Luyten Half Second (LHS) sample. MINIMO systems reported here have $0\farcs50$ yr^{-1} $> \mu \geq$ $0\farcs18$ yr^{-1}, where the lower cutoff is designed to match that of the NLTT catalogue. Papers XII and XV (Subasavage et al. 2005a,b) include some MINIMO stars because in those papers we pushed to $\mu = 0\farcs40$ yr^{-1} to ensure that we picked up any "LHS equivalent" systems with $\mu \sim 0\farcs50$ yr^{-1}. Those papers also split the southern sky into two portions: Subasavage et al. (2005a) covered the sky from declinations $-90°$ to $-47°$, while Subasavage et al. (2005b) stretched north to the celestial equator. For this search, I match the boundaries in Subasavage et al. (2005a) and report all MINIMO systems in the range $0\farcs50$ yr^{-1} $> \mu \geq 0\farcs18$ yr^{-1} south of declination $-47°$.

This phase of the SCR search uses techniques identical to our earlier efforts, simply with a lower proper motion cutoff. Identical methodology allows us to assess completeness comprehensively and compare statistics from the various search phases. Additional phases of the search can be found in Papers VIII (Hambly et al. 2004), X (Henry et al. 2004), XII (Subasavage et al. 2005a), and XV (Subasavage et al. 2005b), in *The Solar Neighborhood* series of papers by RECONS (hereafter TSN). The SCR search utilizes four of the Schmidt survey photographic plates available in each ESO/SRC survey field, which provide astrometric and photometric information

in the B_J, ESO-R, R_{59F} and I_{IVN} photographic passbands. Two distinct epochs in the R band come from the ESO (first epoch; also known as ESO-R) and UK (second epoch; also known as AAO-R) Schmidt telescope surveys. Sources must be detected on at least three plates and are required to have R_{59F} brighter than magnitude 16.5.

After object detection and parameterization (see Hambly et al. 2001b), coordinates are given to each detection making use of a grid of reference stars with known coordinates distributed over the plates, as described in Hambly et al. (2001a). Then the default SuperCOSMOS Sky Survey (SSS) matching of objects on multiple plates is used to extract proper motion objects (a full description can be found in Hambly et al. (2001a)). The matching is set to exclude all images that appear on all four plates having an astrometric solution that indicates a proper motion less than the cut off for this search at $0\farcs18$ yr^{-1} and a goodness-of-fit parameter of $\chi^2 < 1.0$ (Hambly et al. 2004). Each image either not matched or having inconsistent astrometric solutions due to incorrect matching is then processed one at a time using every possible combination to find a pair out to the upper limit of the SCR search, $0\farcs50$ yr^{-1} for this MINIMO survey. Proper motions so determined are relative to the mean reference frame defined for all stars on the plates, because all stars are used to map out small scale systematic errors in positions due to the photographic and measurement processes (see for example Hambly et al. (2001a)).

Photographic plates scanned and folded into the SuperCOSMOS database are $6^\circ \times 6^\circ$ with a 0.5° overlap of adjacent fields on each side, providing $\sim$25 square degrees of unique sky coverage for each field. Two hundred and three fields have been included in the MINIMO search, yielding a total coverage of $\sim$5075 square degrees, corresponding to 13.4% of the entire sky. In this region a total of 7410 candidate objects were detected, more than four times the amount of candidates found in TSN paper XII. Fields shown as whitespaces in Figure 2.1 were omitted

because of crowding near the Magellanic Clouds or Galactic Plane, or because those plate regions had epoch spreads inadequate for reliable proper motion measurements. It is worth noting that three plates (179, 227, and 228) were omitted for $0\farcs40\ \mathrm{yr}^{-1} > \mu \geq 0\farcs18\ \mathrm{yr}^{-1}$ because longer plate epoch separations are required to reliably determine slower proper motions, but were included for $0\farcs50\ \mathrm{yr}^{-1} > \mu \geq 0\farcs40\ \mathrm{yr}^{-1}$. The total region of 40 plates omitted amounts to 2.4% of the entire sky.

A three stage sifting method was used to remove false detections. These steps included first a color check of the two R color plate (ESO-R, R_{59F}) magnitudes - they were considered to be consistent in identifying the same object if they differed by less than one magnitude. Then a second color check was used to determine if B - R and B - I were either both positive or both negative indicating the colors of a real object. The final stage of the sifting process was to check the ellipticity quality flag; if two or more ellipticities were found to be greater than 0.3 the source was deemed to be a false detection. If an object passed all three checks then it advanced to a check of databases for previous identifications. Coordinates of these objects were cross-checked using both VizieR and SIMBAD to identify previously known objects. In VizieR, a ten arcminute radius was used to match SCR detections with both the NLTT and The Liverpool-Edinburgh High Proper Motion (LEHPM) catalogues. If the coordinates of an SCR object were within a few arcminutes of a catalogue object, and the proper motion and magnitude matched, then the target object was labeled as previously known. As a final discovery verification, all potentially new objects are checked against SIMBAD to determine if they had been previously reported as proper motion objects. One class of known objects, GSC objects from the Hubble Space Telescope (HST) Guide Star Catalogue, was *not* considered previously "found", as those stars were merely selected as pointing reference points for HST, not as scientifically noteworthy sources. Some near matches were found to be common proper

motion (CPM) companions to previously known proper motion objects. All of these new companions were visually inspected for accuracy and are discussed in §6.3.

If the object was not found to be previously known, a visual blink inspection was done to confirm its veracity. Images were downloaded from SuperCOSMOS using *wget*, a free software package that can download large packets of files using a constructed URL, pointing to the RA and DEC needed with given parameters. For the blinking process, a box size of 10 arcminutes was used to download images from the UKST blue and red surveys, which gave a sufficient epoch spread (an average of about 14 years) to confirm proper motion and wide enough area of sky to detect companions. Visual inspections are carried out by blinking the B_J and R_{59F} SuperCOSMOS digitized plate images, using a program developed by John Subasavage. Thus, all objects reported here have been confirmed by eye, but some small number of real objects may have been discarded because visual inspections were not carried out for sources that did not pass the three checks.

In keeping with previous discovery statistics, I compare the successful hit rates (real proper motion objects / total candidates extracted) for the MOTION, SLOWMO, and MINIMO samples in the portion of the sky covered by all three, from declinations $-90°$ to $-47°$ (not including individual plate regions that were discarded in any search). The hit rates are 6.6% for MOTION systems, 78.6% for SLOWMO systems, and 78.1% for MINIMO systems. These hit rates take into account new, known, duplicate, and "garbage" (not real) objects. In Figure 2.2, I show a plot of proper motion vs. percent successful hit rate for the entire SCR sample having $\mu \geq 0\farcs18$ yr^{-1} south of declination $-47°$. The SCR search has a sweet spot near $\mu \sim 0\farcs45$ yr^{-1}, where the success rate in picking up proper motion objects is 93%. This high success rate deteriorates toward faster and slower proper motion regimes, where the SCR search is more susceptible to false detections. Causes include mistaken object

movement from one plate to another when there are slight shifts between the plates, focus abnormalities, spurious objects created via plate defects, and bright star halos. In Table 2.1, SCR objects in the various papers have been categorized into the MOTION, SLOWMO, and MINIMO samples and discovery statistics are shown for the entire SCR sample.

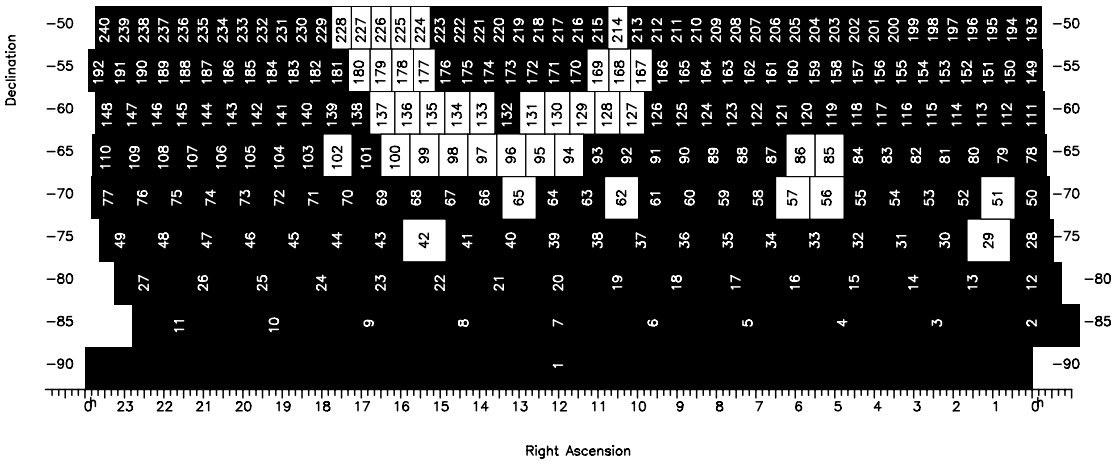

Figure. 2.1 Plate coverage of the sky included in the MINIMO search. White boxes indicate plates that were excluded, primarily due to crowding in the Galactic Plane, LMC, and SMC, or because of an insufficient spread in plate epochs. Plates 179, 227, and 228 are included because they were searched for objects with $0\farcs50\ \mathrm{yr}^{-1} > \mu \geq 0\farcs40\ \mathrm{yr}^{-1}$ but not for objects with $0\farcs40\ \mathrm{yr}^{-1} > \mu \geq 0\farcs18\ \mathrm{yr}^{-1}$.

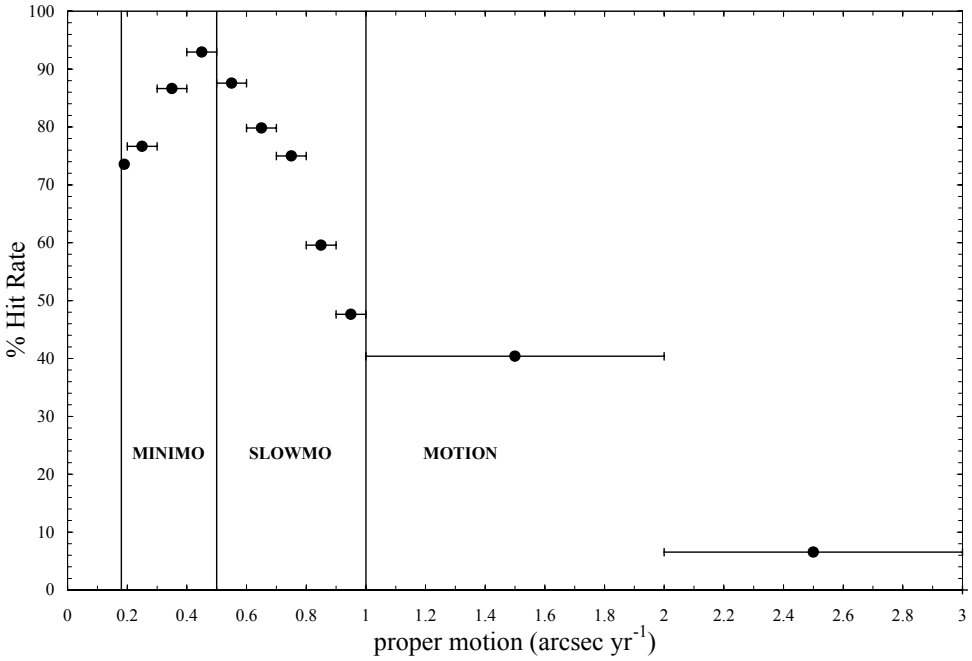

Figure. 2.2 Hit Rate percentage of true proper motion objects (real proper motion objects / total candidates extracted) for the entire SCR sample having $\mu \geq 0\farcs18$ yr^{-1} south of $-47°$. Horizontal bars show the proper motion bins adopted, while vertical lines delineate the three individual SCR samples — MOTION, SLOWMO and MINIMO.

Table 2.1. Discovery Statistics for Entire SCR Sample[a]

	MOTION[b]	SLOWMO[c]	MINIMO[d]
New Discoveries	9	142	1879
Knowns	171	1159	5581
Duplicates	15	91	864
Garbage	1989	344	3613
Total Hits	2184	1736	11937

[a]Entire SCR Sample, including all previous SCR proper motion papers

[b]MOTION sample; $\mu \geq 1\farcs00$ yr^{-1}

[c]SLOWMO sample; $1\farcs00$ yr^{-1} $> \mu \geq 0\farcs50$ yr^{-1}

[d]MINIMO sample; $0\farcs50$ yr^{-1} $> \mu \geq 0\farcs18$ yr^{-1}

– 3 –

Comparison to Previous Proper-Motion Surveys

The NLTT catalogue lists 58693 objects with $\mu \geq 0\farcs18$ yr^{-1}. Of these, 2457 objects meet the search criteria of this paper, are within the fields searched, and have estimated red magnitudes of 16.5 or brighter. I recover 1966 of the 2457 NLTT objects, resulting in an 80% recovery rate. Several factors contribute to the 20% of unrecovered stars. Our proper motions are accurate to $\sim 0\farcs02$ yr^{-1} and our magnitudes to $\sim$0.3 mag. Proper motions and magnitudes in the NLTT in some cases differ from ours, which causes us to drop some objects that were included in the NLTT. On rare occasions we also miss stars that are lost on recent plates due to mergers where two object are now occupying the same space on the photographic plate, but were uncorrupted during previous efforts. Our SCR search has trouble picking up brighter sources due to halo effects present on the photographic plates. The brightest NLTT source I obtain in my search is at $R_{59F} \sim 5.4$ mag while the brightest NLTT source in this portion of the sky is R $\sim$ 1.6 mag. Here I compare the results from the entire SCR survey to date for declinations $-90°$ to $-47°$ to the proper motion surveys listed in Table 3.1[1]. The numbers listed reflect only the total number of entries in each work — I have not confirmed that all sources by other groups are both real and original.

[1]For samples that were reported in 1950 coordinates, I have not computed 2000 coordinates or slid stars because of proper motion over 50 years. The number of objects that may have slipped out of the sample by moving north of $-47°$ is expected to be small, and a comparable number of replacement objects likely have slipped south.

Table 3.1. Number of NLTT-Type Objects Discovered South of Declination $-47°$[a]

Survey	$\mu \geq 1\farcs00$ yr^{-1}	$1\farcs00$ yr^{-1} $> \mu \geq 0\farcs50$ yr^{-1}	$0\farcs50$ yr^{-1} $> \mu \geq 0\farcs18$ yr^{-1}	Total	# of Publications	References[b]
NLTT	56	261	3529	3846	1	1
SuperCOSMOS-RECONS	5	70	1742	1817	5	2, 3, 4, 5, 6
Wroblewski and collaborators	3	28	488	519	4	7, 8, 9
SUPERBLINK	1	43	29	73	1	10
Scholz and collaborators	2	11	55	68	2	11, 12
Ruiz and collaborators	0	2	37	39	1	13
SIPS	7	20	0	27	1	14
Oppenheimer et al.	1	4	2	7	1	15
Pokorny et al.	mixed	mixed	mixed	mixed	2	16, 17

[a]Numbers listed indicate objects reported as "new" in the survey publications. Pokorny did not differentiate between new and previously known objects, so the entry is labled as mixed.

[b]References include (1) Luyten (1979, 1980); (2,3,4,5,6) Hambly et al. (2004); Henry et al. (2004); Subasavage et al. (2005a,b), this paper; (7,8,9) Wroblewski & Torres (1989, 1991, 1994); (10) Lépine (2005); (11,12) Scholz et al. (2000, 2002); (13) Ruiz et al. (1993); (14) Deacon et al. (2005); (15) Oppenheimer et al. (2001); (16,17) Pokorny et al. (2003, 2004)

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Data

In the Appendix I list the 1684 new MINIMO systems reported in this survey covering declinations $-90°$ to $-47°$ with $0\farcs50\ \mathrm{yr}^{-1} > \mu \geq 0\farcs18\ \mathrm{yr}^{-1}$. In Table 4.1, I highlight the 34 systems for which we estimate distances of less than 25 pc, and 17 additional white dwarf candidates. As in previous SCR search papers, in the Appendix and Table 4.1 I list SCR names, coordinates, relative proper motions, plate magnitudes from SuperCOSMOS, infrared photometry from 2MASS, the $R_{59F}-J$ color, a distance estimate, and notes.

All coordinates are for epoch and equinox J2000.0 and are computed using the Two Micron All Sky Survey (2MASS) coordinates and adjusted to epoch 2000.0 using the SCR proper motions and position angles. Proper motions are extracted using the J and R_{59F} combination of plates to produce a uniform survey with the highest possible accuracy, as described in Hambly et al. (2001a), where a full description can be found. In brief, these two plates have a good time baseline between the first and second epoch and reach to $J \sim 22.5$ and $R_{59F} \sim 21.0$ giving the best plate pairing. For this search, R_{59F} brighter than 16.5 mag was chosen, because those magnitudes are easily reachable with the 0.9-m Cassegrain telescope at the Cerro Tololo Inter-American Observatory (CTIO) in Chile. From our search algorithm, the average proper motion errors are $\sim 0\farcs010\ \mathrm{yr}^{-1}$. I show in Figure 4.1 that our proper motion and position angle measurements are consistent with those in NLTT and Hipparcos by examining 298 MINIMO stars that had data in both catalogues.[1] The results indicate that the SCR proper motions and position angles have average deviations

[1]NLTT proper motion data are quantized south of DEC $-45°$, hence the structure of the points at low proper motions.

of $\sim$0$''$.020 yr^{-1} and $\sim$3.9° compared to Hipparcos motions, and $\sim$0$''$.025 yr^{-1} and $\sim$6.8° compared to NLTT. I also show that the NLTT and Hipparcos proper motions and position angles show average deviations in proper motions of $\sim$0$''$.019 yr^{-1} and $\sim$5.1° when compared to each other. Comparison of the three outlying data points in position angle in the SCR vs. NLTT and Hipparcos vs. NLTT plots indicates that these NLTT measurements are incorrect. The consistency between SCR and Hipparcos is particularly encouraging because Hipparcos only observed stars brighter than $V \sim 12$, and these are the stars with the poorest measured proper motions in the SCR survey.

Photographic magnitudes are given in the Appendix and Table 4.1 for three plate emulsions: B_J, R_{59F}, and I_{IVN}. Plate magnitude errors are typically less than 0.3 mag for sources fainter than 15th mag, with errors increasing for brighter objects because of systematic errors (Hambly et al. 2001b). Plate color errors are typically only 0.07 mag. 2MASS JHK_s photometry and a representative color, $R_{59F}-J$, generated using two of the most reliable photometric measurements, are given. All JHK_s infrared photometry is extracted from 2MASS via VizieR and these magnitudes were spot-checked by eye for accuracy. 2MASS magnitude errors are 0.03 mag or less in most cases. This holds true unless $J > 15$, $H > 14.5$ or $K_s > 14$, for which the errors are typically 0.05 mag or greater.

The six-band photometry is used to generate 12 colors that are utilized to compute distance estimates, as described in Hambly et al. (2004). All estimates assume that the objects are single, main sequence stars. The accuracy of the technique is 26%, defined as the mean of the absolute values of the differences between distances for stars with trigonometric parallaxes and distances estimated via the relations. In cases where objects are too blue for the relations, no distance is listed. In a few cases the B_J and/or I_{IVN} plate magnitudes are not determined (likely causes include confusing sources and

plate defects) making the distance estimate less reliable. Seventeen white dwarf and 191 subdwarf candidates have erroneous distances (listed in brackets) from the suite of relations because they are not main sequence stars; more accurate estimates are given in the notes for the white dwarfs. Overall, I find three systems within 10 pc, 31 between 10 and 25 pc, and 408 between 25 and 50 pc.

Some of the common proper motion (CPM) candidates were not revealed during the SCR search because of confusion with another source, or because the companion was fainter than our magnitude cutoff; these were however, noticed during the blinking process. In these cases the objects are investigated using SIMBAD and VizieR to check for previous identification. If the object was not previously known, I used SuperCOSMOS and 2MASS magnitudes to find the six colors used to compute distance estimates, and proper motion data from SuperCOSMOS to compute proper motions and position angles (see § 6.3).

Table 4.1. Characteristics of New SCR Systems Estimated to be Nearer than 25 Parsecs and New White Dwarf Candidates with $0\farcs50\ \mathrm{yr}^{-1} > \mu \geq 0\farcs18\ \mathrm{yr}^{-1}$ from $-90° < \delta \leq -47°$

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR Red Dwarf candidates < 25pc													
SCR 0100-7904	01 00 56.08	-79 04 25.2	0.379	215.3	13.69	11.69	9.98	8.79	8.16	7.88	2.89	14.9	
SCR 0135-6127	01 35 53.66	-61 27 11.1	0.255	256.8	15.61	13.67	11.80	10.05	9.53	9.24	3.61	20.8	
SCR 0138-5353	01 38 20.51	-53 53 26.1	0.297	071.0	15.70	13.69	11.73	10.27	9.69	9.42	3.42	24.2	
SCR 0211-6108	02 11 35.42	-61 08 53.8	0.234	060.8	11.68	9.73	9.23	8.67	8.15	8.07	1.06	22.9	
SCR 0232-8458	02 32 50.12	-84 58 09.5	0.220	141.9	12.31	10.17	9.87	8.99	8.34	8.18	1.17	24.9	
SCR 0246-7024	02 46 02.25	-70 24 06.3	0.259	113.2	15.71	13.32	10.71	9.83	9.32	9.01	3.49	20.0	
SCR 0527-7231	05 27 06.99	-72 31 20.0	0.368	018.3	16.01	13.96	11.76	10.33	9.76	9.47	3.63	22.6	
SCR 0630-7643AB	06 30 46.61	-76 43 08.9	0.483	356.8	15.77	13.56	10.73	8.89	8.27	7.92	4.67	6.9	a
SCR 0635-6722	06 35 48.81	-67 22 58.5	0.383	340.0	12.21	9.83	8.66	8.54	7.95	7.69	1.29	22.7	
SCR 0838-5855	08 38 02.24	-58 55 58.7	0.320	188.9	18.44	16.11	12.43	10.30	9.70	9.26	5.80	8.4	
SCR 1147-5504	11 47 52.49	-55 04 11.9	0.192	011.3	14.95	12.23	10.25	9.67	9.08	8.81	2.56	24.1	
SCR 1217-7810	12 17 26.93	-78 10 45.9	0.212	056.6	17.54	15.69	13.14	11.19	10.64	10.35	4.49	24.5	
SCR 1220-8302	12 20 03.71	-83 02 29.2	0.243	244.2	17.03	14.93	12.79	10.97	10.39	10.07	3.96	25.0	
SCR 1224-5339	12 24 24.44	-53 39 08.8	0.189	251.9	16.93	14.77	12.30	10.50	9.93	9.64	4.26	18.1	
SCR 1240-8116	12 40 55.99	-81 16 30.9	0.492	279.8	15.15	13.11	11.25	9.73	9.16	8.89	3.38	19.1	
SCR 1245-5506	12 45 52.53	-55 06 50.2	0.412	107.0	14.84	12.82	10.34	8.99	8.42	8.12	3.83	11.4	
SCR 1347-7610	13 47 56.80	-76 10 20.0	0.194	089.7	12.39	10.26	8.88	8.62	8.01	7.77	1.64	22.5	
SCR 1420-7516	14 20 36.84	-75 16 5.9	0.195	243.7	14.22	12.68	10.44	9.44	8.90	8.63	3.23	21.3	
SCR 1441-7338	14 41 14.42	-73 38 41.4	0.207	029.0	18.27	16.14	13.04	11.19	10.60	10.26	4.95	19.0	
SCR 1448-5735	14 48 39.82	-57 35 17.7	0.202	188.8	12.47	10.59	12.46	9.14	8.55	8.43	1.45	18.2	
SCR 1456-7239	14 56 02.29	-72 39 41.4	0.207	225.0	16.50	14.22	11.99	10.62	10.05	9.74	3.60	24.9	
SCR 1738-5942	17 38 41.02	-59 42 24.4	0.280	148.2	16.57	14.20	11.92	10.38	9.83	9.58	3.82	20.8	
SCR 1820-6225	18 20 49.35	-62 25 52.7	0.190	164.8	13.35	11.17	8.43	9.13	8.48	8.29	2.04	22.4	
SCR 1826-6542	18 26 46.83	-65 42 39.9	0.311	178.9	18.68	16.43	12.91	10.56	9.96	9.54	5.86	9.2	
SCR 1853-7537	18 53 26.61	-75 37 39.8	0.304	168.7	12.20	9.85	9.09	8.34	7.73	7.49	1.51	20.0	
SCR 1856-4704	18 56 38.40	-47 04 58.3	0.252	131.3	16.29	13.92	11.64	10.29	9.74	9.44	3.63	21.4	
SCR 1926-8216	19 26 48.64	-82 16 47.6	0.195	172.5	12.22	10.00	10.20	9.04	8.42	8.30	0.96	17.3	
SCR 1932-5005	19 32 48.64	-50 05 38.9	0.257	157.5	16.86	14.50	11.99	10.75	10.11	9.84	3.75	24.4	
SCR 1959-6236	19 59 33.55	-62 36 13.4	0.189	288.7	17.47	15.35	12.67	11.06	10.49	10.22	4.29	24.3	
SCR 2016-7531	20 16 11.25	-75 31 04.5	0.253	081.3	17.06	14.74	12.24	10.46	9.86	9.50	4.28	16.2	
SCR 2042-5737	20 42 46.44	-57 37 15.3	0.264	142.6	15.06	13.22	11.55	9.97	9.52	9.03	3.25	22.7	
SCR 2230-5244	22 30 27.95	-52 44 29.1	0.369	125.7	19.01	16.34	···	11.84	11.23	10.91	4.49	24.6	
SCR 2241-6119A	22 41 44.36	-61 19 31.2	0.184	124.0	15.64	13.65	11.70	10.20	9.61	9.35	3.44	23.2	a
SCR 2335-6433A	23 35 18.43	-64 33 42.4	0.196	103.1	11.79	9.97	9.01	8.63	8.02	7.86	1.33	24.5	a

Table 4.1 (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR WD Candidates													
SCR 0004-6120B	00 04 45.41	-61 23 40.0	0.171	127.6	16.86	16.76	16.53	16.43	15.93	16.47	0.32	[1216.2]	[a b c] 59.3 ± 11.9pc
SCR 0018-6851	00 18 08.56	-68 51 19.4	0.220	091.6	16.55	16.46	16.48	16.62	16.13	17.18	-0.16	...	[c d e] 52.2 ± 10.4pc
SCR 0104-5742B	01 04 12.14	-57 42 48.6	0.239	091.1	16.19	15.89	15.78	15.67	15.56	15.75	0.22	[872.1]	[a c f] 34.5 ± 6.9pc
SCR 0150-7207	01 50 38.49	-72 07 16.8	0.334	223.9	16.18	15.71	15.24	15.65	15.64	15.42	0.06	...	[c e f] 28.0 ± 5.6pc
SCR 0245-6038	02 45 27.77	-60 38 58.2	0.196	049.6	17.15	16.36	16.07	15.83	15.47	15.66	0.52	[821.9]	[c] 29.9 ± 6.0pc
SCR 0252-7522	02 52 45.71	-75 22 44.5	0.496	063.5	17.09	16.32	16.17	15.77	15.76	15.33	0.55	[675.9]	[c f] 29.8 ± 6.0 pc
SCR 0311-6215	03 11 21.33	-62 15 15.7	0.416	083.3	15.68	16.05	16.13	16.13	16.31	16.50	-0.08	...	[c e f] 60.7 ± 12.2pc
SCR 0355-5611	03 55 31.89	-56 11 28.2	0.279	029.1	17.36	16.46	16.11	16.05	15.53	15.44	0.41	[755.9]	[c] 28.9 ± 5.8pc
SCR 0429-5423B	04 29 05.93	-54 23 03.6	0.170	39.7	17.91	17.08	16.97	...	...	...	...	...	[a b c d] 40.5 ± 8.1pc
SCR 0840-7826	08 40 29.00	-78 26 46.0	0.399	010.3	16.06	15.82	15.77	15.62	15.57	15.47	0.20	[763.9]	[c] 34.8 ± 7.0pc
SCR 0857-6032	08 57 08.21	-60 32 45.4	0.217	333.3	15.20	15.37	15.45	15.94	16.20	15.78	-0.56	...	[c e] 38.2 ± 7.6pc
SCR 1257-5554B	12 57 32.85	-55 54 48.9	0.413	293.3	15.05	13.89	11.97	...	...	...	...	...	[a b c d] 22.2 ± 4.4pc
SCR 1821-5951	18 21 59.54	-59 51 48.5	0.365	194.9	17.49	16.31	15.72	15.20	15.00	14.90	1.11	[588.9]	[c f] 22.2 ± 4.4pc
SCR 2016-7945	20 16 49.74	-79 45 53.0	0.434	128.4	16.74	16.09	15.75	15.10	15.02	14.64	0.99	[482.5]	[c f] 29.3 ± 5.9 pc
SCR 2020-7806	20 20 52.98	-78 06 18.7	0.276	209.2	16.03	16.09	16.11	15.92	15.59	15.68	0.16	[834.9]	[c] 49.1 ± 9.8pc
SCR 2032-4948B	20 32 41.74	-49 48 57.2	0.270	182.4	17.15	16.77	16.73	16.62	15.87	15.88	0.14	[900.1]	[a b c] 48.7 ± 9.7pc
SCR 2354-6023	23 54 50.63	-60 23 16.0	0.230	098.6	16.31	16.06	15.93	15.87	15.77	16.31	0.18	[1127.8]	[c] 38.6 ± 7.7pc

[a]Common proper motion; see Table 6.1

[b]Not detected during automated search but noticed by eye during the blinking process

[c]WD candidate with unreliable distance estimate [in brackets]; more reliable WD distance estimate in notes

[d]Not in 2MASS

[e]All colors are too blue for distance relations

[f]WD confirmed via spectroscopy; results already published or will be published in a future paper by John P. Subasavage

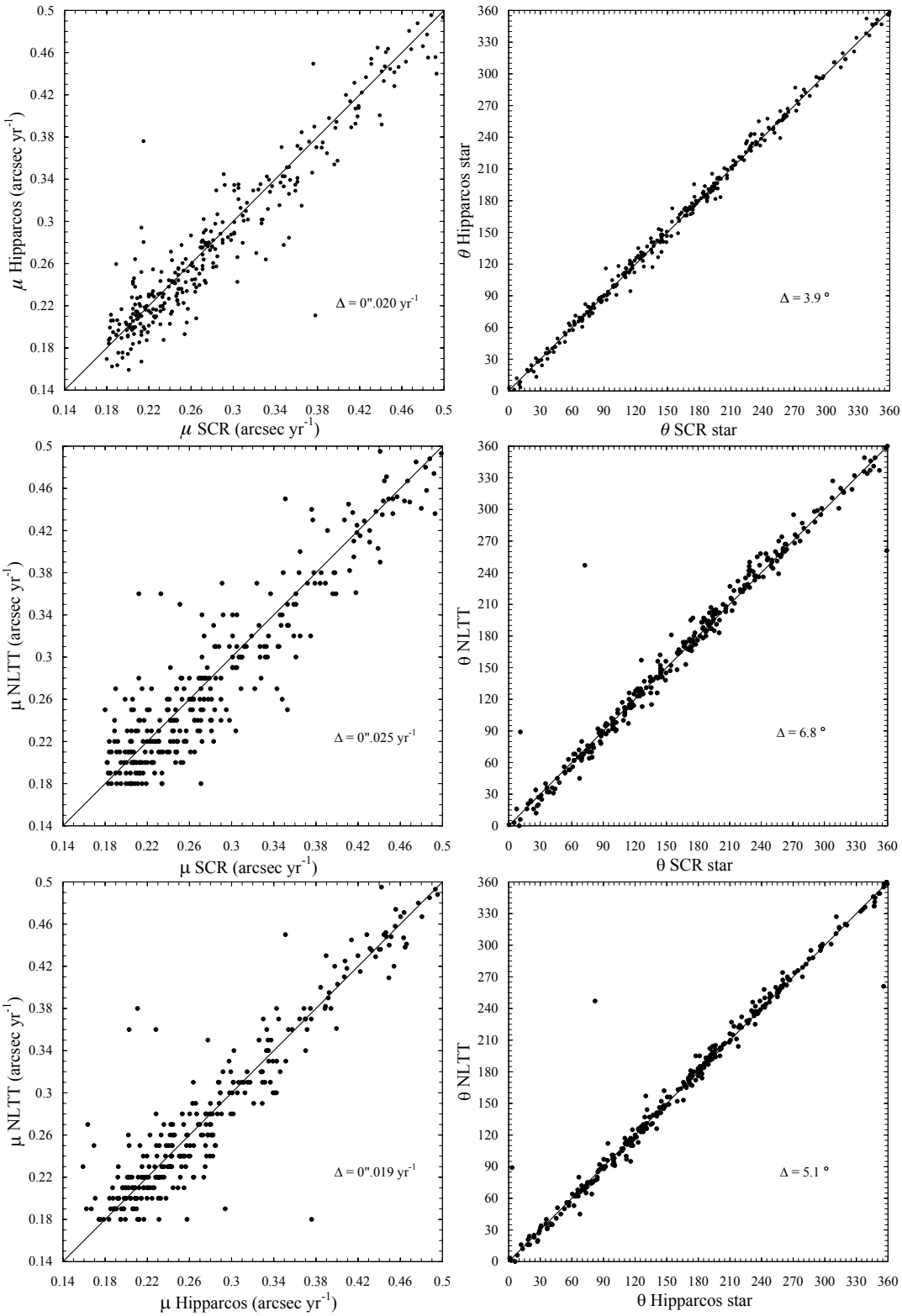

Figure. 4.1 Comparison of NLTT, Hipparcos, and SCR proper motions and position angles. The solid lines indicate perfect agreement. Note that proper motion data for NLTT is quantized south of $-45°$.

– 5 –

Photometric and Spectroscopic Observations of the Nearby Sample

The nearby systems are of special interest, so we obtained photometric and spectroscopic observations to better limit and understand the nature of these objects. In all we obtained photometry for sixteen and spectra for twelve of the thirty-four 25 pc MINIMO sample.

5.1 Photometry

All but two nights of V_J,R_C, and I_C photometry observations were made with the Tek 2 *VRI* filter set using the CTIO 0.9 meter telescope equipped with a 2048 x 2048 Tektronix CCD camera, yielding a $0\farcs401$ pixel^{-1} plate scale (Jao et al. 2003). Two nights in 2005 August were taken with a standard Kitt Peak *VRI* filter set using the CTIO 1.0 meter telescope equipped with a OSU 4K x 4K CCD camera, yielding a 20 x 20 arcminute field of view and a $0\farcs289$ pixel^{-1} plate scale. Results for systems within 25 pc according to their plate and 2MASS magnitudes are listed in Table 5.1. All *VRI* values were obtained between 2003 October and 2006 November. I also list the number of observations, 2MASS JHK_S photometry, spectral type, photometric CCD distance estimates, and notes.

For the *VRI* photometry, bias and dome flats were taken at the beginning of each night and used to calibrate the science frames during reductions. Science stars were observed between 1.11 and 1.75 airmasses with a range of exposure times depending on the brightness of the star. Typically, at least eight standard stars from Graham (1982), Bessel (1990), and Landolt (1992) were observed between 1.0 and 2.0 airmasses

each night to calibrate the $V_J R_C I_C$ system and to calculate extinction corrections.

All the data were reduced using the Image Reduction and Analysis Facility (IRAF) following the CTIOPI Photometry Reduction User Guide written by Wei-Chun Jao. The initial bias subtraction, flat fielding and overscan are done with a customized IRAF package called *redpi* (Jao et al. 2005). After this initial processing of the raw data, each image is checked by eye for cosmic rays, crowding around the science star, and to obtain the average Full Width at Half Max (FWHM), which changes from night to night. The next step is to tag the standard stars with a circular aperture of 14″ in diameter to match Landolt's (1992) observations of standard stars. Once all the standard stars have been tagged, a sky annulus of 20″ in radius with a 3″ width is used to determine the background counts (Jao et al. 2003). Instrumental magnitudes are extracted using the IRAF task *apercorr* and grouped into a master file. The transformation equations from Wei-Chun Jao's Photometry Reduction User Guide used to obtain apparent magnitudes are

$$V = m_V + a_1 + a_2 X + a_3(m_V - m_I) + a_4(m_V - m_I)X,$$

$$R = m_R + b_1 + b_2 X + b_3(m_R - m_I) + b_4(m_R - m_I)X,$$

$$I = m_I + c_1 + c_2 X + c_3(m_R - m_I) + c_4(m_R - m_I)X.$$

Where *V, R, and I* are apparent magnitudes for standard stars, m_{VRI} are instrumental magnitudes from IRAF, a_{1234}, b_{1234}, and c_{1234} are transformation coefficients and X is airmass. The IRAF task *fitparam* is then used to obtain transformation coefficients that were used for the science star photometry.

The science stars are then checked for cosmic rays and tagged using the same method as above with a circular aperture of 14″ in diameter. A few stars had other

sources within this aperture, so an aperture correction was used with an appropriate circular aperture of 7″- 8″ in diameter to minimize stray light. Instrumental magnitudes were then obtained as above using the IRAF task *apercorr*. The final V_J,R_C, and I_C magnitudes are extracted by applying the transformation equations using a custom Perl task written by Wei-Chun Jao similar to the IRAF task *evalfit*. Errors in optical photometry have been analyzed in Henry et al. (2004), where a full discussion can be found. I adopt the same error of ± 0.03 mag in each band, and the results are listed in Table 5.1.

For CCD distance estimates, *VRI* photometry from CTIO observations and JHK_s infrared photometry extracted from 2MASS are used to generate 12 colors that are utilized to compute estimates as described in Henry et al. (2004). Briefly, fifth-order fits are used for the 12 colors with any higher order not improving the fits in any meaningful way. All estimates assume that the objects are single, main sequence stars. The reliability of these distance estimates has been investigated in Henry et al. (2004), where a sample of 140 stars used to generate the fits were run back through the relations, yielding an accuracy of 15.3% for this technique. Henry et al. (2004) also show that for the reddest dwarfs the accuracy is remarkably better at 9.3%. CCD distance estimates are more accurate than plate estimates determined from the SSS *BRI* and 2MASS infrared magnitudes, which have errors of 26% in estimated distances. In Table 5.1, I list CCD distance estimates for 16 of the 34 systems with distances within 25 pc according to their plate and 2MASS magnitudes. Of these 16 CCD distances, six have estimates that are greater than 25 pc with only three of the six greater than 30 pc. These are, however, still approximate until parallax data is obtained for final distance determinations.

Table 5.1. Photometry, Spectral Types and CCD Distance Estimates for MINIMO Systems Estimated to be Nearer than 25 pc with $0''.50\ \mathrm{yr}^{-1} > \mu \geq 0''.18\ \mathrm{yr}^{-1}$ from $-90° < \delta \leq -47°$

Name	V_J	R_C	I_C	# Obs	J	H	K_s	Dist (pc)	SpT	Notes
SCR 0100-7904	12.45	11.42	10.08	1	8.79	8.16	7.88	18.7	M2.5V	
SCR 0135-6127	14.28	13.10	11.57	1	10.05	9.53	9.24	25.2	M3.5V	
SCR 0138-5353	14.35	13.21	11.70	1	10.27	9.69	9.42	29.7	M3.5V	
SCR 0211-6108	10.40	9.84	9.37	1	8.67	8.15	8.07	58.5	K3.0V	
SCR 0232-8458	11.47	10.65	9.90	1	8.99	8.34	8.18	43.2	M0.0V	
SCR 0246-7024	14.84	13.43	11.60	1	9.83	9.32	9.01	14.2	M4.5V	
SCR 0527-7231	14.71	13.49	11.88	2	10.33	9.76	9.47	24.9	M3.5V	
SCR 0630-7643AB	14.82	13.08	10.99	4	8.89	8.27	7.92	5.4	M5.0V	a b c
SCR 0635-6722	11.54	10.62	9.64	2	8.54	7.95	7.69	25.8	M1.0V	
SCR 0838-5855	17.19	15.07	12.78	3	10.30	9.70	9.26	7.9	M6.0V	
SCR 1147-5504	...	...	...	...	9.67	9.08	8.81	...	...	
SCR 1217-7810	...	...	...	...	11.19	10.64	10.35	...	...	
SCR 1220-8302	...	...	...	...	10.97	10.39	10.07	...	...	
SCR 1224-5339	...	...	...	...	10.50	9.93	9.64	...	...	
SCR 1240-8116	14.10	12.88	11.28	1	9.73	9.16	8.89	19.3	M4.0V	b
SCR 1245-5506	13.66	12.31	10.61	2	8.99	8.42	8.12	11.3	M4.0V	b
SCR 1347-7610	...	...	...	...	8.62	8.01	7.77	...	...	
SCR 1420-7516	...	...	...	...	9.44	8.90	8.63	...	...	
SCR 1441-7338	17.04	15.32	13.27	1	11.19	10.60	10.26	16.6	...	
SCR 1448-5735	...	...	...	...	9.14	8.55	8.43	...	...	
SCR 1456-7239	...	...	...	...	10.62	10.05	9.74	...	...	
SCR 1738-5942	...	...	...	...	10.38	9.83	9.58	...	...	
SCR 1820-6225	...	...	...	...	9.13	8.48	8.29	...	...	
SCR 1826-6542	17.34	15.27	12.96	3	10.56	9.96	9.54	9.2	...	
SCR 1853-7537	11.22	10.31	9.43	1	8.34	7.73	7.49	25.0	...	
SCR 1856-4704	...	...	...	...	10.29	9.74	9.44	...	...	
SCR 1926-8216	...	...	...	...	9.04	8.42	8.30	...	...	
SCR 1932-5005	...	...	...	...	10.75	10.11	9.84	...	...	
SCR 1959-6236	...	...	...	...	11.06	10.49	10.22	...	...	
SCR 2016-7531	...	...	...	...	10.46	9.86	9.50	...	...	
SCR 2042-5737	...	...	...	...	9.97	9.52	9.03	...	...	
SCR 2230-5244	...	...	...	...	11.84	11.23	10.91	...	...	
SCR 2241-6119A	...	...	...	...	10.20	9.61	9.35	...	...	a
SCR 2335-6433A	11.20	10.42	9.64	1	8.63	8.02	7.86	35.8	...	a

[a]Common proper motion see Table 6.1

[b]Published in (Subasavage et al. 2005a)

[c]First published in (Henry et al. 2004)

5.2 Spectroscopy

All spectroscopic observations were made with the CTIO 1.5m telescope equipped with a Ritchey-Chrétien Spectrograph and a Loral 1200 x 800 CCD camera. The results listed in Table 5.1 are from observations taken between 2003 December and 2006 December. Grating number 32 was used covering wavelengths from 6000 to 9500 Å with a resolution of 8.6 Å. Bias and dome flats were taken at the beginning of each night and used to calibrate the science frames in the reductions. Observations were taken at an airmass of less than 2.0 with a slit width of 6″ at various exposure times ranging from 10 - 1800 seconds. Three targets (SCR 0630-7643, SCR 1240-8116, and SCR 1245-5506) were observed before 2006 with a 2″ slit width and may have flux calibration problems. Two exposures were taken of each object to help in the removal of cosmic rays and were then combined into a single spectrum of each object. After each science exposure, a He-Ne-Ar comparison lamp exposure was taken for wavelength calibration. Standard stars (white dwarf or main sequence) were observed to enable flux calibration. The spectra are plotted in Figure 5.1, and they are normalized at 7500Å with the addition of an integer to fit on the plot.

All the data were reduced using IRAF with bias subtraction and flat fielding done using the standard IRAF tasks. Reduction was done following the steps in a User Guide to Spectroscopy Reduction, which I wrote after learning how to reduce spectra from Thom Beaulieu. After the initial processing of the raw data, the next step is to check the background fit by using the IRAF task *background*. Once this is done we can extract the apertures using the IRAF task *apsum* on spectra of the science stars, flux standards, and comparison lamp spectra. This procedure extracts a comparison lamp image for every science/flux standard image using the same extraction parameters. The IRAF task *identify* is used to identify known features within the

spectra. Sensitivity functions were created for each standard using the IRAF task *sensfunc* and then used with the IRAF task *calibrate* to apply extinction and flux calibrations to all the images. The final step is to clean the images by clipping cosmic rays and bad columns using IRAF task *splot*. Spectral types listed in Table 5.1 were assigned using an updated version of the ALLSTAR program, which is described in Henry et al. (2002). This program matches spectra from a list of standard spectra in the RECONS database.

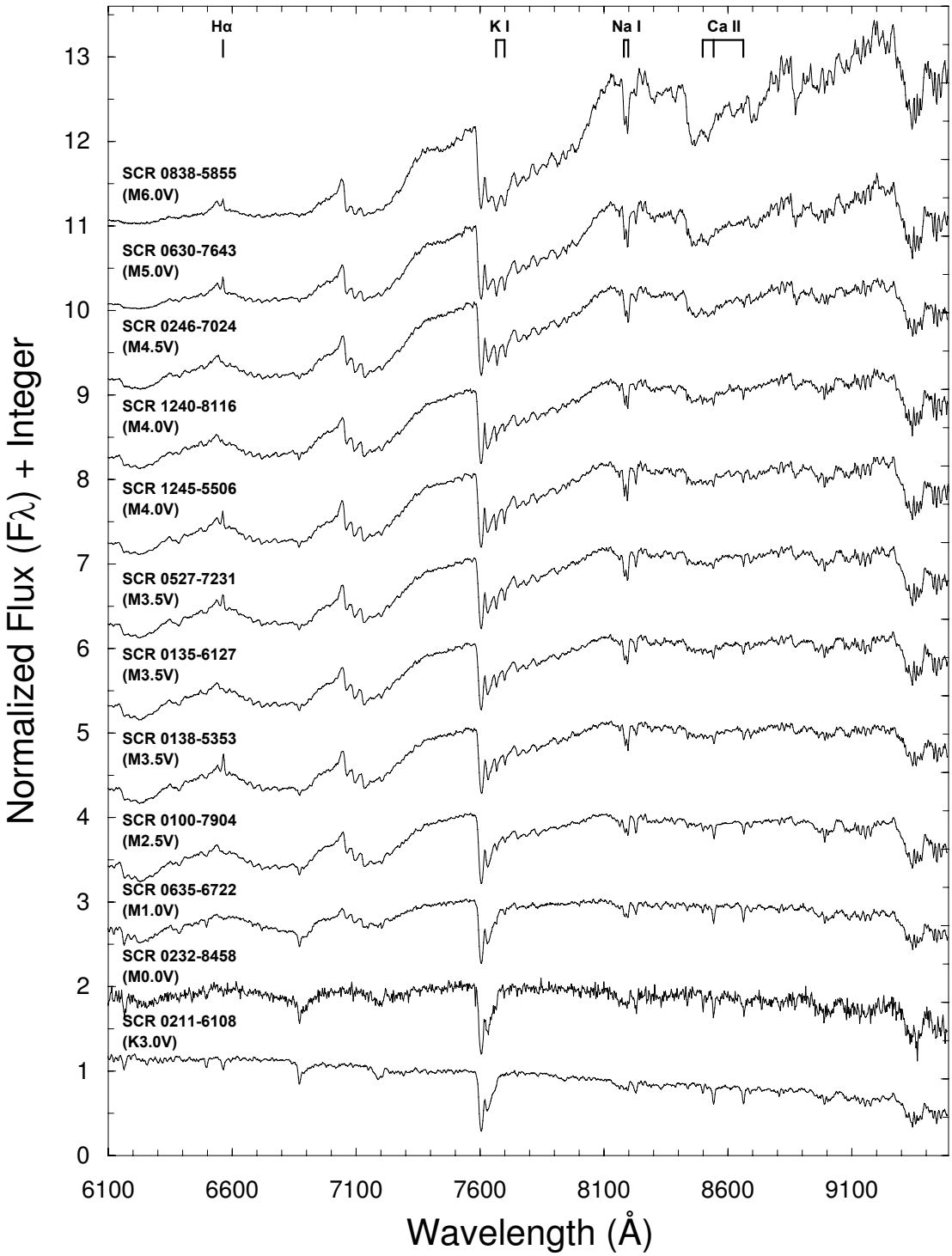

Figure. 5.1 Spectral plots of new SCR discoveries estimated to be within 25 pc. Note that spectra of SCR 0630-7643AB, SCR 1240-8116, and SCR 1245-5506 were taken with a 2″ slit width and may have minor flux calibration problems.

– 6 –

Analysis

6.1 Color-Magnitude Diagram

Plotted in Figure 6.1 is a color magnitude diagram comparing the new SCR objects (open circles) to the known objects (small points) from this MINIMO phase of the search. As in TSN Papers XII and XV, the bulk of the new discoveries are fainter and redder than the known stars, including three objects, SCR 0838-5855, SCR 1826-6542, and SCR 2241-6119B with $R_{59F} - J > 5.5$. Unlike the sources extracted in previous efforts, there are more new discoveries featured in this search that are brighter and bluer than before. In fact, there are nine new discoveries with R_{59F} brighter than 10th magnitude that had not been identified previously. The point at $R_{59F} = 8.14$ is SCR 1914-7109, which is too blue for us to estimate a distance using the plate-2MASS relations. CCD photometry and spectroscopy observations would clarify its true nature.

As in comparable plots in previous papers, several white dwarf candidates are clearly separated from the bulk of the sample. The subdwarf population is less well-defined, but a population of subdwarfs can be detected below the concentration of main sequence stars.

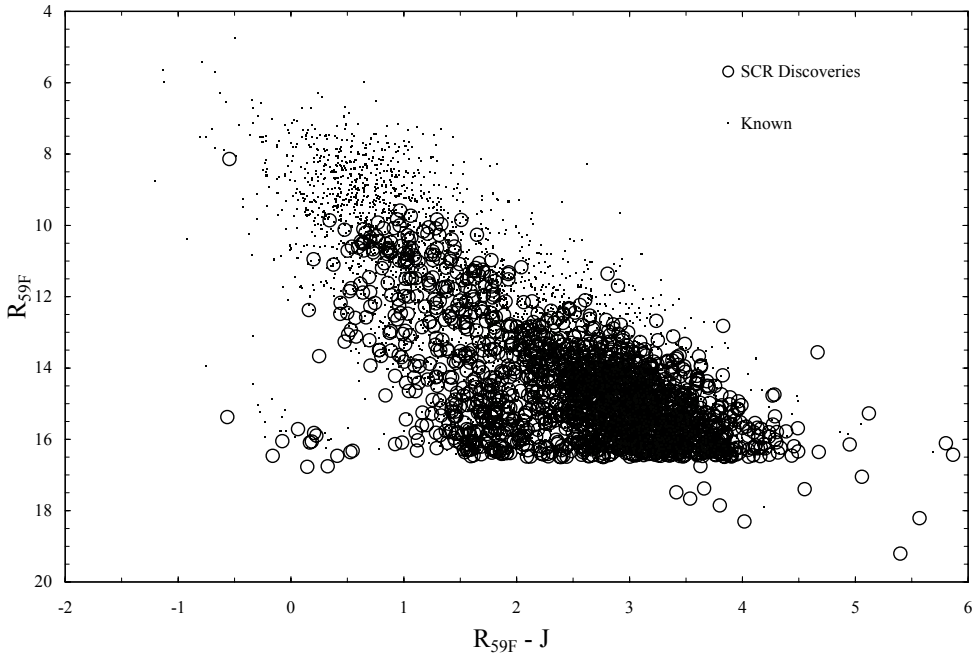

Figure. 6.1 Color-apparent magnitude diagram for SCR systems (open circles) and known systems (small points) with $0\farcs50\ \mathrm{yr}^{-1} > \mu \geq 0\farcs18\ \mathrm{yr}^{-1}$ from $-90° < \delta \leq -47°$. Data points below our search cutoff of $R_{59F} = 16.5$ are CPM companions noticed during the blinking process.

6.2 Reduced Proper Motion Diagram

Shown in Figure 6.2 is the reduced proper motion (RPM) diagram for objects found in this search, similar to the RPM diagrams shown in TSN Papers XII and XV. The RPM diagram relies on the statistical (inverse) relationship between proper motion and distance: objects that have larger distances generally have smaller proper motions. As such, it can be used to separate white dwarfs and (less clearly) subdwarfs from main-sequence stars. While this assumption is not always valid, it is a fairly reliable indicator of luminosity class for most stars. As in previous papers related to the SCR search, the relation used to determine H_R is

$$H_R = R_{59F} + 5 + 5 \log \mu.$$

A comparison of Figures 6.1 and 6.2 shows that the RPM diagram is slightly better than the color magnitude diagram at separating the three samples, in particular the split between subdwarf and main sequence stars.

There is a clear break separating the white dwarfs from the rest of the sample. The arbitrary dashed line between the subdwarfs and white dwarfs is the same as used in TSN Paper XV, although the proper motions are smaller. In this region of the diagram, I find 15 new white dwarf candidates: SCR 0004-6120B, SCR 0018-6851, SCR 0104-5742B, SCR 0150-7207, SCR 0245-6038, SCR 0252-7522, SCR 0311-6215, SCR 0355-5611, SCR 0840-7826, SCR 0857-6032, SCR 1821-5951, SCR 2016-7945, SCR 2020-7806, SCR 2032-4948B, and SCR 2354-6023. Two additional candidates, SCR 0429-5423B and SCR 1257-5554B were noticed while blinking to have the colors consistent with a white dwarf, bringing the total number of white dwarf candidates for this search to 17, but both lack the 2MASS data to plot in the RPM diagram. One object SCR 1800-5112B is a close double with blended photometry in SuperCOSMOS,

which puts it inside the white dwarf regime of the RPM diagram. The infrared colors however are not consistent with a white dwarf, and therefore is not considered a white dwarf candidate. Of the 17 candidates, three (SCR 0104-5742B, SCR 0150-7207 and SCR 1821-5951) have been spectroscopically confirmed (results to be presented in a future publication). Three more (SCR 0252-7522, SCR 0311-6215 and SCR 2016-7945) have been spectroscopically confirmed in a earlier publication (Subasavage et al. 2005a). Each is listed in Table 4.1 with a bracketed erroneous distance estimate assuming the object is a main sequence star. I include a distance estimate based on the assumption of the source being a main sequence member because large distances can be used to flag possible white dwarfs. All the white dwarfs have distances for main sequence luminosities beyond 400 pc except SCR 0018-6851, SCR 0150-7207, SCR 0311-6215, SCR 0429-5423B, SCR 0857-6032, and SCR 1257-5554B, which have blended SuperCOSMOS photometry, no 2MASS data, or are too blue for the relations. In the notes I give more accurate distance estimates assuming the objects are single white dwarfs by comparing the candidates to a sample of 47 white dwarfs of known distance to calibrate the $R_{59F} - J$ color vs. $M_{R_{59F}}$ relation (valid for $-0.25 < R_{59F} - J < 1.6$) developed by John Subasavage. Errors in the distances are estimated to be 13%. This brings the total number of white dwarf candidates to 31 for the SCR survey.

To be consistent with TSN Paper XV, subdwarf candidates are selected to have $R_{59F} - J > 1.0$ and $H_R > 4.0$ mag above the dashed line separating the white dwarfs from the subdwarfs. As with the white dwarf cutoff line, the subdwarf cutoff used is arbitrary, yet provides a fairly accurate distinction between the subdwarfs and main sequence classes. Although some contamination of the sample is expected, we count a total of 191 new subdwarf candidates from this search. This brings the total number of SCR subdwarf candidates to date to 238.

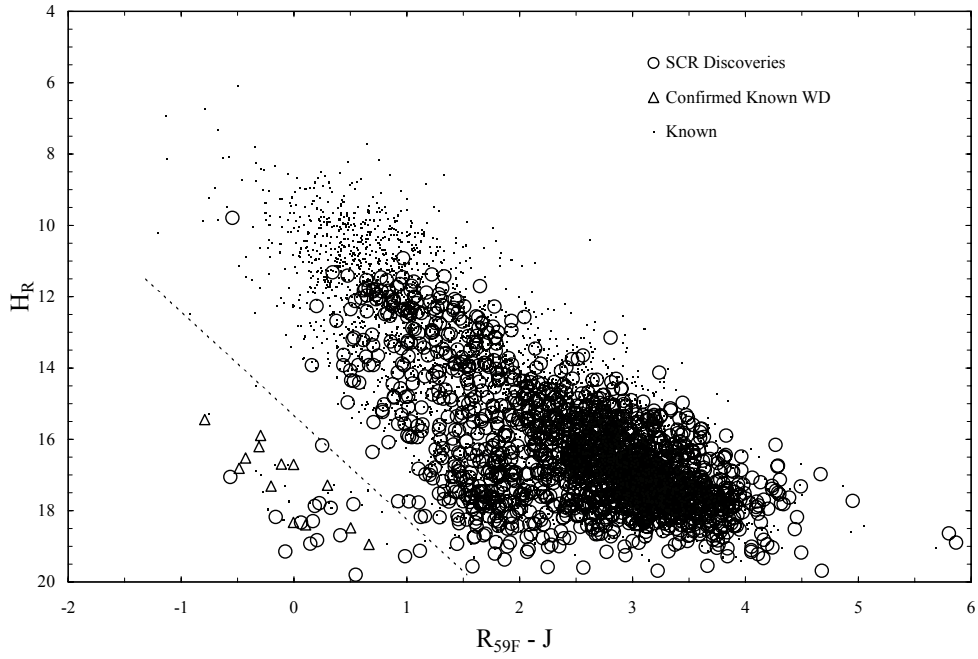

Figure. 6.2 Reduced proper motion diagram for SCR systems (open circles) and known systems (small points) with $0''.50\ \mathrm{yr}^{-1} > \mu \geq 0''.18\ \mathrm{yr}^{-1}$ from $-90° < \delta \leq -47°$. The arbitrary dotted line separates the white dwarfs from the subdwarfs. Triangles denote previously known white dwarfs.

6.3 New Common Proper Motion Systems

In this search I found a total of 57 new likely CPM systems, including 55 doubles and two triples (i.e. 59 companions). All primaries, companions and their proper motions are recorded in Table 6.1, where the separations and position angles of the companions relative to the primary stars are also listed. Twenty-three pairs of objects were discovered via the automated search and were subsequently noticed to have common proper motion. Twenty-six additional new SCR companions not revealed during the automated search were noticed during the blinking process. Ten previously known objects were noticed by eye to have common proper motions to SCR stars discovered during the automated search.

In Figures 6.3 and 6.4, I compare the proper motions and position angles for the 55 pairs having complete sets of μ and θ. Because of blending in four systems, SuperCOSMOS data could not be obtained for the potential companion, and they were too close to obtain accurate manual measurements. Values obtained through the systematic SCR trawl are shown with filled circles, while open circles are used if a companion was noticed during the blinking process of the SuperCOSMOS scans. Data were then retrieved manually from SuperCOSMOS for the noticed companions. Usually, such companions are fainter than the search cutoff of $R_{59F} = 16.5$.

As is typical with proper motion surveys, the position angles of the proper motions are better determined than the proper motions themselves, which are particularly volatile at these relatively low values. Hence, the position angles are given greater weight when deciding whether or not two sources really are part of the same system. The average scatter for the proper motions and position angles are $\sim 0\farcs020$ yr^{-1} and $\sim 5.0^{\circ}$, respectively, which is consistent with comparisons of SCR data to NLTT and Hipparcos, as discussed previously. Distance estimates for multiple components

within a factor of two are considered to be consistent, given the errors of the distance estimating relations. Distances in parentheses are deemed unreliable due to either lack of BRI photometry, used fewer than six relations, I photometry suspect or because the primary is likely an unresolved double. If the distance estimate appears in brackets it is unreliable because the star is a possible white dwarf or subdwarf candidate.

Table 6.1. Common Proper Motion Systems

Primary	μ ($''$)	θ ($^\circ$)	Distance (pc)	Secondary/Tertiary	μ ($''$)	θ ($^\circ$)	Distance (pc)	Separation ($''$)	θ ($^\circ$)	notes
HD 120056	0.164	230.1	···	SCR 1348-5536B	0.204	112.1	236.9	46.9	310.9	[a b] Hipparcos distance at 100.70pc
HD 158866	0.235	188.4	(13.1)	SCR 1746-8211B	0.228	184.9	14.5	76.5	290.8	[c] Hipparcos distance at 30.61pc
NLTT 01733	0.250	115.3	36.1	SCR 0032-5528B	0.221	115.2	70.3	349.6	71.4	[b]
NLTT 03566	0.257	87.5	27.9	SCR 0104-5742B	0.239	91.1	[872.1]	110.6	206.6	[d] WD candidate at 34.5 ± 6.9pc
NLTT 13852	0.233	46.3	···	SCR 0436-8233B	0.233	51.1	48.6	108.9	338.7	[a] Hipparcos distance at 46.46pc
NLTT 15903	0.223	17.9	36.4	SCR 0551-8116B	0.233	19.5	56.5	99.6	266.1	
NLTT 20147	0.222	342.8	(40.4)	SCR 0843-5007B	0.225	338.8	74.1	24.0	64.3	[b c] Hipparcos distance at 93.63pc
NLTT 21827	0.231	312.1	53.9	SCR 0927-6239B	0.204	312.2	41.6	200.9	92.0	
				SCR 0927-6239C	0.197	309.0	···	316.2	59.6	[b e]
NLTT 26256	0.194	283.9	(12.5)	SCR 1104-7856B	0.203	283.1	101.1	260.4	167.7	[b c] Hipparcos distance at 47.46pc
NLTT 36394	0.238	238.9	(36.9)	SCR 1411-7525B	0.250	242.1	111.5	21.8	275.5	[c]
NLTT 45592	0.174	178.9	(23.3)	SCR 1755-7241B	0.199	175.2	60.3	102.2	273.7	[b c] Hipparcos distance of 77.94pc
NLTT 49033	0.270	159.1	28.8	SCR 2019-4701B	0.265	158.1	52.5	67.9	86.9	[b]
NLTT 49299	0.295	100.1	(22.9)	SCR 2029-5757B	0.314	107.8	79.0	111.7	102.8	[c] Hipparcos distance at 56.31pc
NLTT 52323	0.466	204.3	···	SCR 2155-7330B	0.459	202.0	31.5	364.2	133.5	[a] Hipparcos distance at 39.84pc
PPM 365916	0.259	135.1	(33.0)	SCR 2237-6238B	0.191	127.4	69.6	118.8	107.6	[c]
SCR 0004-6120A	0.180	129.0	35.8	SCR 0004-6120B	0.171	127.6	[1216.2]	179.6	205.5	[b d] WD candidate at 59.3 ± 11.9pc
SCR 0017-5036A	0.204	112.1	(83.6)	NLTT 00918	···	···	···	···	···	[a b c]
SCR 0025-5254A	0.196	101.2	44.4	SCR 0025-5254B	0.110	107.1	80.0	286.8	330.7	[b]
SCR 0055-5529A	0.234	53.6	88.9	SCR 0055-5529B	0.212	52.6	···	5.8	359.3	[a b]
SCR 0156-6402A	0.197	85.6	140.4	SCR 0156-6402B	0.217	86.2	82.1	280.5	261.8	[b]
SCR 0156-6702A	0.183	57.4	29.7	SCR 0156-6702B	0.177	47.4	45.2	19.3	79.8	[b]
SCR 0205-6122A	0.184	192.8	[74.6]	SCR 0205-6122B	···	···	···	···	···	[a b]
SCR 0206-6609A	0.181	80.6	101.4	SCR 0206-6609B	0.220	75.9	124.5	107.4	92.6	[b]
SCR 0246-4935A	0.247	72.3	40.0	SCR 0246-4935B	0.243	58.0	(31.4)	8.2	145.3	[a b c]
SCR 0353-6844A	0.232	38.0	53.2	SCR 0353-6844B	0.238	38.1	59.3	13.5	226.4	
SCR 0429-5423A	0.188	49.4	54.4	SCR 0429-5423B	0.170	39.7	···	138.0	115.4	[b d] WD candidate at 40.5 ± 8.1pc
SCR 0454-8045A	0.195	14.2	43.0	SCR 0454-8045B	0.191	13.5	56.5	14.4	189.1	
SCR 0611-7302A	0.188	208.1	65.7	SCR 0611-7302B	0.190	211.4	69.4	101.9	46.1	
SCR 0630-7643A	0.483	356.8	7.0	SCR 0630-7643B	···	···	···	0.90	34.0	discussed in Henry et al. (2004)
SCR 0745-4814A	0.200	174.9	31.4	SCR 0745-4814B	0.201	176.0	25.7	43.7	220.5	[b]
SCR 0757-7444A	0.197	50.9	(99.4)	SCR 0757-7444B	0.180	48.0	158.5	10.4	311.4	[b c]
SCR 0853-7705A	0.211	306.7	52.6	SCR 0853-7705B	0.225	293.2	76.2	224.1	99.5	
SCR 0921-7523A	0.291	321.1	62.2	SCR 0921-7523B	0.286	316.3	80.4	14.0	309.5	
SCR 1117-7226A	0.188	275.8	72.2	NLTT 26927	0.204	273.7	52.0	28.8	30.5	
SCR 1229-5738A	0.197	256.6	92.7	SCR 1229-5738B	0.189	262.7	109.8	10.8	215.0	[b]
SCR 1246-5328A	0.188	29.0	45.3	SCR 1246-5328B	0.183	25.3	82.1	19.5	298.8	
SCR 1257-5554A	0.410	290.1	39.1	SCR 1257-5554B	0.413	293.3	···	10.4	16.3	[d e] see Subasavage et al. (2005b)
SCR 1800-5112A	0.289	226.5	···	SCR 1800-5112B	0.317	220.3	178.3	4.6	123.7	[a b]
SCR 1804-5541A	0.222	194.4	(47.2)	SCR 1804-5541B	0.198	201.7	163.4	18.9	302.6	[b c]
SCR 1809-6154A	0.218	253.2	159.3	SCR 1809-6154B	0.201	259.8	163.9	19.3	269.7	
SCR 1816-6615A	0.209	207.1	[448.4]	SCR 1816-6615B	···	···	···	···	···	[a b]
SCR 1902-7550A	0.303	168.8	75.9	LEHPM 1248-2	0.286	168.5	111.7	20.3	129.4	[b]

Table 6.1 (cont'd)

Primary	μ ($''$)	θ (°)	Distance (pc)	Secondary/Tertiary	μ ($''$)	θ (°)	Distance (pc)	Separation ($''$)	θ (°)	notes
SCR 1912-4910A	0.229	187.7	35.8	SCR 1912-4910B	0.254	185.5	42.3	20.9	262.8	
SCR 1917-4915A	0.216	200.3	48.2	LEHPM 3221-2	0.212	200.8	81.8	44.0	131.6	[b]
SCR 1953-5037A	0.181	144.3	31.6	SCR 1953-5037B	0.171	142.9	45.0	82.5	188.8	[b]
SCR 1958-8000A	0.183	149.1	(61.3)	SCR 1958-8000B	0.192	145.8	(133.4)	6.7	258.7	[b f] without I A at 81pc and B at 128pc
SCR 2032-4948A	0.265	179.0	75.3	SCR 2032-4948B	0.270	182.4	[900.1]	8.8	213.1	[b d] WD candidate at 48.7 ± 9.7pc
SCR 2036-6454A	0.197	146.0	72.7	SCR 2036-6454B	0.190	153.3	88.2	35.3	72.5	
SCR 2057-6358A	0.187	139.9	[102.0]	SCR 2057-6358B	...	...	...	...	...	[a b]
				SCR 2057-6358C	0.130	138.7	46.7	261.5	121.6	[b]
SCR 2100-5804A	0.186	117.6	80.5	SCR 2100-5804B	0.181	116.1	147.0	16.4	300.7	[b]
SCR 2112-5428A	0.209	95.3	35.6	SCR 2112-5428B	0.152	117.0	13.5	15.3	60.6	[b]
SCR 2218-5310A	0.190	95.3	(61.1)	SCR 2218-5310B	0.191	95.9	96.6	35.2	142.1	[c]
SCR 2241-6119A	0.184	124.0	23.2	SCR 2241-6119B	0.162	117.6	27.8	9.6	211.2	[b]
SCR 2255-5120A	0.335	227.1	69.7	SCR 2255-5120B	0.263	228.9	112.6	17.4	359.3	[b]
SCR 2333-7923A	0.394	101.4	[183.1]	SCR 2333-7923B	0.388	100.0	[216.2]	11.2	123.0	[g]
SCR 2335-6433A	0.196	103.1	(24.5)	SCR 2335-6433B	0.196	99.1	57.5	22.4	25.9	[h]
SCR 2353-8204A	0.216	66.9	(26.8)	SCR 2353-8204B	0.209	68.4	54.2	34.5	181.9	[h]

[a]Distance estimate unreliable when listed (in parentheses); if distance not given BRI plate photometry not available

[b]Companion not detected during automated search but noticed to be a common proper motion companion during visual inspection

[c]Fewer than 6 relations, therefore distance estimate unreliable (in parentheses); Hipparcos distance given in notes when available

[d]White dwarf candidate with unreliable distance when listed [in brackets]

[e]No 2MASS photometry available for companion

[f]I photometry suspect, therefore distance unreliable (in parentheses)

[g]Subdwarf candidate with unreliable distance listed [in brackets]

[h]Distance estimate unreliable (in parentheses), because primary is likely an unresolved double

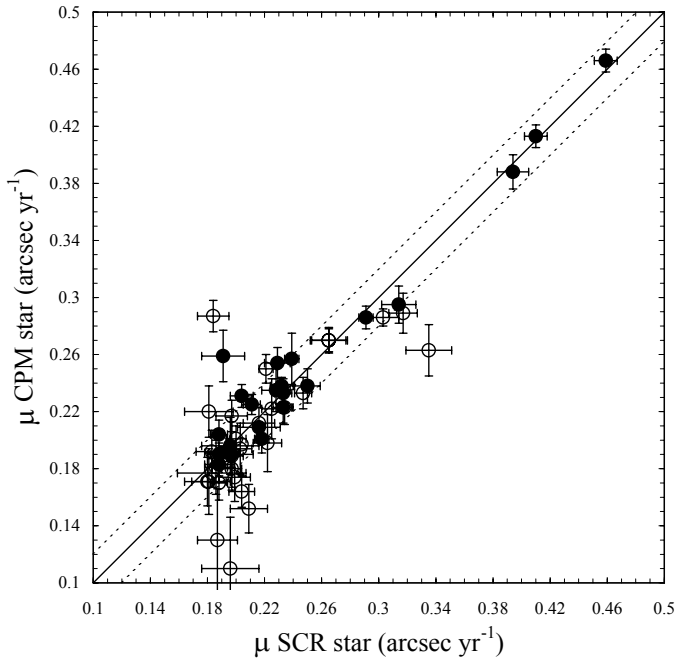

Figure. 6.3 Comparison of proper motions for components in multiple systems. Proper motions from the automated SCR search are denoted by filled circles and proper motions manually obtained through SuperCOSMOS are denoted by open circles. The solid line indicates perfect agreement between the two and the dashed lines represent conservative limits of $0''.20$ yr^{-1} based on our uncertanties.

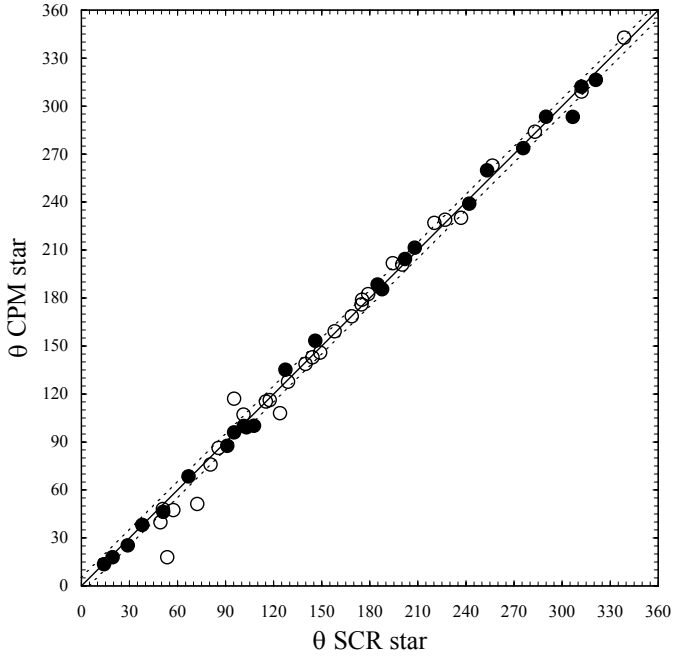

Figure. 6.4 Comparison of position angles for components in multiple systems. Position angles from the automated SCR search are denoted by filled circles and position angles manually obtained through SuperCOSMOS are denoted by open circles. The solid line indicates perfect agreement between the two and the dashed lines represent conservative limits of 5.0 degrees based on our uncertainties.

6.4 Comments on Individual MINIMO Systems

SCR 0630-7643AB was discussed in Henry et al. (2004). It is a new nearby (∼7 pc) binary with separation 1.″0 and brightness difference of ∼0.25 mag at I_C.

SCR 0838-5855 has $R_{59F} = 16.11$ and $R_{59F} - J = 5.80$. This is likely to be a late M dwarf at an estimated distance of only 8.4 pc. This is a high priority target on our CTIOPI parallax program (Jao et al. 2005; Henry et al. 2006).

SCR 0927-6239BC are possible CPM companions to NLTT 21827. The B component has a separation of 200.″9 at position angle 92.0° from the primary. The C component is not in 2MASS and has a separation of 316.″2 at a position angle of 59.6° from the primary. See Table 6.1.

SCR 1257-5554AB was discussed in Subasavage et al. (2005a) as a probable red dwarf/white dwarf pair.

SCR 1441-7338 has $R_{59F} = 16.14$ and $R_{59F} - J = 4.95$ with a distance estimate of 19.0 pc.

SCR 1826-6542 has $R_{59F} = 16.43$ and $R_{59F} - J = 5.86$. This is likely to be a late M dwarf at an estimated distance of only 9.2 pc. It is the reddest object found in the MINIMO search.

SCR 1914-7109 is the brightest object found in the MINIMO search, with $R_{59F} = 8.14$ and $R_{59F} - J = -0.54$. It is too blue for us to estimate a distance using the plate-2MASS relations.

SCR 2057-6358ABC is a possible triple system with the A and B components separated by less than 2.″, and having blended SuperCOSMOS photometry, but which are separated in 2MASS. Both the B and C components were noticed by eye during the blinking process. The C component has a separation of 261.″5 at position angle 121.6° from the primary. See Table 6.1.

– 7 –

Discussion

Including all papers pertaining to the SCR proper motion survey, we have discovered 1967 new systems (2030 objects) with $\mu \geq 0\farcs18$ yr^{-1} between declinations $-90°$ and $0°$. Systems reported in previous papers are represented by filled circles in the sky map of SCR systems in Figure 7.1; systems in this search are represented by open circles.

The 1684 systems in this search comprise 86% of the entire SCR sample and bring the total number of systems south of $-47°$ to 1761 (1817 objects). From this search, there are 17 likely white dwarfs and 191 subdwarf candidates. Six of the white dwarfs (but none of the subdwarfs) have been spectroscopically confirmed, while the rest remain to be targeted in future spectroscopic efforts to confirm their luminosity classes.

Discovery statistics for the entire SCR sample, separated by distance horizons, are given in Table 7.1. In order to be consistent with previous SCR papers, new common proper motion candidates that are companions to known objects and probable white dwarfs (because their distance estimates require a different set of relations) are not included. For all proper motion bins except the last, we have searched the entire southern sky; for the last bin only $-47°$ to $-90°$ has been searched. In the complete sample of new SCR systems to date, 7 are estimated to be within 10 pc, and 67 additional systems lie between 10 and 25 pc. Of the 1684 systems reported in this search, three are estimated to be within 10 pc, with an additional 31 between 10 and 25 pc. This illustrates that even in this relatively slow proper motion regime there are nearby stars hidden in the solar neighborhood. Should they prove to be within 10

pc, the three nearest stars reported in this search would rank as the 10th (0.″311 yr^{-1} SCR 1826-6542), 11th (0.″320 yr^{-1} for SCR 0838-5855), and 33rd (0.″483 yr^{-1} SCR 0630-7643AB) slowest systems in the RECONS sample of 248 systems within 10 pc (Henry et al. 2006).

Plotted in Figure 7.2 is a histogram showing the number of new proper motion discoveries found in 0.″01 yr^{-1} bins for the entire MINIMO sample (light shade). From this we can see that if the SCR survey were to look at slower proper motions, a substantial number of new discoveries objects could be found. While no turnover is seen here, at some point I suspect that the SCR search would have difficulty measuring stars with very low proper motions because of errors in the proper motion calculations and insufficient epoch spread from plate to plate. I also look at the number of new discoveries within each 0.″01 yr^{-1} bin that have an estimated distance within 50 pc denoted by the darker shade in Figure 7.2. From this we see that the number of objects found within 50 pc gets greater toward the slower proper motion realm where a larger number of objects have been found. The greatest percent of objects (objects within 50 pc / total objects in bin) out of each bin having distance estimates within 50 pc come from proper motions which are greater than 0.″29 yr^{-1}.

Although the counts of new 10 pc candidates are small in each of the SCR proper motion samples, the largest number of candidates between 10 and 25 pc is found in the slowest sample from this MINIMO survey, even though only a portion of the southern sky has been searched. I anticipate that continuing searches for MINIMO systems in the southern sky will be a promising endeavor for finding additional nearby stars.

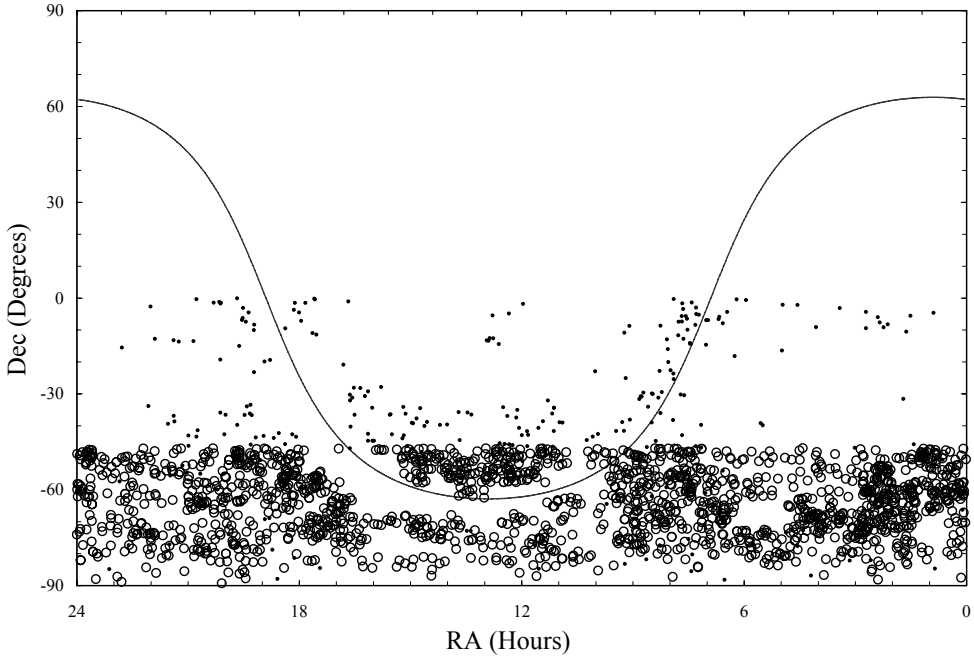

Figure. 7.1 Sky distribution of SCR systems with $\mu \geq 0\farcs18$ yr^{-1}. Open circles denote SCR discoveries from this search and small filled circles indicate SCR discoveries from past papers. The curve represents the Galactic plane.

Table 7.1. Distance Estimate Statistics for SCR Systems[a]

Proper motion	d $\leq$ 10 pc	10 pc $<$ d $\leq$ 25 pc	d $>$ 25 pc
$\mu \geq 1\farcs00$ yr^{-1}	2 + 0	0 + 0	6 + 0
$1\farcs00$ yr^{-1} $> \mu \geq 0\farcs80$ yr^{-1}	0 + 0	3 + 0	3 + 0
$0\farcs80$ yr^{-1} $> \mu \geq 0\farcs60$ yr^{-1}	1 + 0	11 + 0	48 + 0
$0\farcs60$ yr^{-1} $> \mu \geq 0\farcs40$ yr^{-1}	1 + 1	22 + 2	113 + 71
$0\farcs40$ yr^{-1} $> \mu \geq 0\farcs18$ yr^{-1}	0 + 2	0 + 29	0 + 1545
Total	4 + 3	36 + 31	170 + 1617

[a]Entire SCR sample excluding white dwarf candidates and new common proper motion companions noticed by eye; the first number is from previous SCR efforts and the second number is from this search

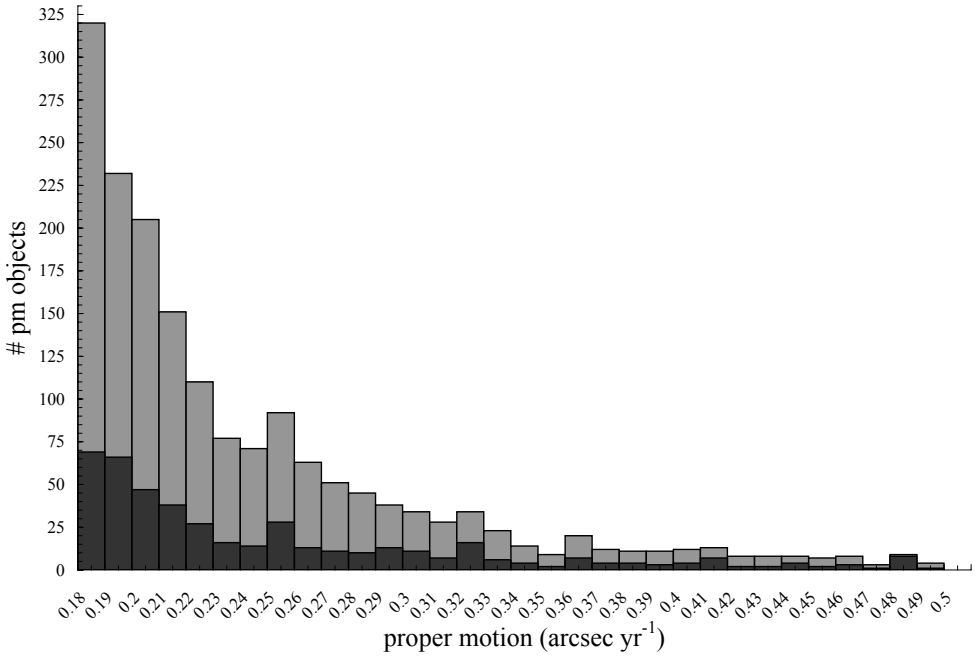

Figure. 7.2 Histogram showing the number of new proper motion discoveries in 0.″01 yr^{-1} bins for the entire MINIMO sample (light shade) and the number of those objects having distance estimates within 50 pc (dark shade).

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Appendix

Table Appendix. Characteristics of New SCR Systems with $0\farcs50\ \mathrm{yr}^{-1} > \mu \geq 0\farcs18\ \mathrm{yr}^{-1}$ from $-90° < \delta \leq -47°$

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0000-5029	00 00 44.10	-50 29 24.8	0.402	091.8	15.55	13.43	11.65	11.21	10.72	10.48	2.22	68.2	
SCR 0001-7015	00 01 56.59	-70 15 08.4	0.202	141.1	18.22	16.20	14.64	13.36	12.79	12.66	2.84	142.5	
SCR 0003-6021	00 03 59.01	-60 21 58.1	0.249	145.1	17.84	15.68	12.92	11.68	11.08	10.75	4.00	35.3	
SCR 0004-5740	00 04 26.79	-57 40 02.7	0.181	091.2	16.00	13.87	12.36	11.47	10.87	10.65	2.41	66.0	
SCR 0004-6709	00 04 35.59	-67 09 37.9	0.188	091.6	18.54	16.35	14.21	12.62	12.00	11.74	3.73	58.4	
SCR 0004-6120B	00 04 45.41	-61 23 40.0	0.171	127.6	16.87	16.76	16.54	16.44	15.94	16.48	0.33	[1216.2]	a b c
SCR 0004-6120A	00 04 56.20	-61 20 58.0	0.180	129.0	13.63	11.28	9.94	9.66	9.08	8.81	1.62	35.8	a
SCR 0005-4707	00 05 10.27	-47 07 34.6	0.210	087.9	16.02	14.87	14.24	11.51	10.90	10.64	3.36	40.2	
SCR 0005-5747	00 05 43.09	-57 47 30.5	0.239	150.8	17.74	15.61	13.27	11.97	11.49	11.25	3.64	53.2	
SCR 0005-6152	00 05 31.98	-61 52 48.7	0.283	161.1	18.40	16.25	15.16	14.36	13.70	13.69	1.89	[324.9]	d
SCR 0006-6009	00 06 49.72	-60 09 35.2	0.184	096.2	14.81	12.72	11.61	11.17	10.55	10.36	1.55	76.5	
SCR 0006-7740	00 06 24.03	-77 40 59.2	0.221	128.3	17.66	15.39	14.19	13.17	12.63	12.43	2.22	158.3	
SCR 0007-7015	00 07 07.43	-70 15 53.6	0.210	185.5	15.52	13.49	12.53	11.72	11.11	10.95	1.77	96.1	
SCR 0008-8731	00 08 42.35	-87 31 00.0	0.183	107.2	17.44	15.52	13.84	12.74	12.11	11.87	2.78	101.2	
SCR 0008-4916	00 08 20.84	-49 16 00.6	0.270	103.1	17.92	15.93	13.87	12.74	12.15	11.92	3.19	87.4	
SCR 0008-5843	00 08 15.37	-58 43 31.7	0.224	123.7	16.40	14.54	13.45	12.91	12.33	12.15	1.64	[167.0]	d
SCR 0009-6021	00 09 34.26	-60 21 29.4	0.200	084.1	17.25	14.97	12.68	11.69	11.18	10.90	3.28	51.4	
SCR 0009-6257	00 09 43.82	-62 57 27.1	0.225	101.8	18.22	16.09	14.09	12.78	12.20	11.94	3.32	79.9	
SCR 0009-7305	00 09 48.15	-73 05 37.5	0.276	117.6	18.10	16.04	15.31	14.58	14.04	13.87	1.46	[380.3]	d
SCR 0011-7558	00 11 17.84	-75 58 01.7	0.184	097.4	15.93	13.73	11.67	11.55	10.93	10.52	2.18	65.9	
SCR 0011-5823	00 11 51.90	-58 23 45.7	0.220	089.7	17.63	15.42	12.95	11.82	11.24	10.95	3.60	45.5	
SCR 0012-5753	00 12 06.97	-57 53 38.8	0.221	166.9	17.45	15.20	12.51	11.42	10.83	10.56	3.78	35.7	
SCR 0013-5218	00 13 12.32	-52 18 11.0	0.203	114.6	12.17	10.69	11.03	9.83	9.32	9.20	0.86	26.6	
SCR 0014-8000	00 14 21.15	-80 00 10.1	0.183	147.6	16.08	14.02	11.87	11.15	10.59	10.37	2.87	50.2	
SCR 0014-6205	00 14 44.15	-62 05 56.7	0.240	103.6	12.15	10.24	8.79	9.03	8.42	8.18	1.21	27.9	
SCR 0015-6957	00 15 52.50	-69 57 20.5	0.302	108.5	14.58	12.54	10.91	9.89	9.24	9.01	2.65	28.0	
SCR 0015-7638	00 15 55.92	-76 38 40.3	0.183	138.2	17.31	15.23	13.68	12.74	12.19	12.02	2.50	123.1	
SCR 0016-5911	00 16 19.32	-59 11 09.6	0.214	073.8	17.23	15.10	13.33	12.34	11.76	11.52	2.76	85.3	
SCR 0016-5220	00 16 04.62	-52 20 01.5	0.197	105.6	18.29	16.28	14.26	13.15	12.59	12.35	3.13	109.9	
SCR 0016-5938	00 16 30.07	-59 38 42.0	0.180	098.0	12.61	10.51	10.05	9.88	9.30	9.23	0.63	45.5	
SCR 0017-5448	00 17 45.04	-54 48 11.5	0.194	212.8	14.56	13.02	12.27	12.15	11.57	11.51	0.88	133.4	
SCR 0017-5036A	00 17 59.74	-50 36 39.1	0.204	112.1	14.42	12.38	10.59	12.22	11.58	11.36	0.16	83.6	a
SCR 0017-5350	00 17 31.97	-53 50 31.5	0.253	190.9	17.27	14.95	12.68	11.45	10.86	10.58	3.50	38.4	
SCR 0018-6122	00 18 23.87	-61 22 03.3	0.194	082.1	19.29	16.44	15.10	13.86	13.28	12.98	2.58	151.7	
SCR 0018-6851	00 18 08.56	-68 51 19.4	0.220	091.6	16.55	16.47	16.48	16.63	16.14	17.19	-0.16	...	b
SCR 0020-7412	00 20 49.53	-74 12 39.1	0.236	093.5	17.82	15.74	13.67	12.78	12.25	12.01	2.97	101.9	
SCR 0021-6152	00 21 27.98	-61 52 34.0	0.196	091.1	17.84	15.73	13.69	12.10	11.46	11.19	3.63	47.8	
SCR 0022-6047	00 22 48.33	-60 47 09.7	0.218	100.5	13.13	11.79	11.00	10.34	9.81	9.68	1.45	54.9	
SCR 0022-5843	00 22 41.01	-58 43 10.4	0.265	155.9	17.72	16.04	15.28	14.31	13.75	13.58	1.72	[301.6]	d
SCR 0022-5251	00 22 16.15	-52 51 31.4	0.197	214.1	13.43	11.54	10.78	10.32	9.78	9.59	1.22	55.3	
SCR 0023-6641	00 23 07.28	-66 41 07.9	0.310	094.5	17.56	15.52	13.65	12.09	11.50	11.26	3.42	55.7	
SCR 0023-5606	00 23 53.91	-56 06 17.4	0.183	099.6	17.13	15.00	13.13	12.00	11.37	11.17	3.00	64.4	
SCR 0023-5926	00 23 08.45	-59 26 21.4	0.214	108.9	13.92	12.25	11.59	10.77	10.14	10.05	1.48	59.4	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0024-7644	00 24 25.41	-76 44 31.1	0.201	067.3	17.76	15.80	15.04	14.39	13.79	13.63	1.41	[343.7]	d
SCR 0024-8029	00 24 41.50	-80 29 51.5	0.194	105.1	18.58	15.84	15.09	13.98	13.43	13.17	1.86	[230.6]	d
SCR 0025-5254A	00 25 55.49	-52 54 00.2	0.196	101.2	11.82	10.51	10.06	9.86	9.44	9.34	0.65	44.4	a
SCR 0025-6049	00 25 32.66	-60 49 49.8	0.292	099.5	16.55	14.47	12.72	11.56	10.94	10.73	2.91	55.2	
SCR 0025-5254B	00 25 40.00	-52 49 50.0	0.110	107.1	18.46	15.59	13.91	12.69	12.06	11.87	2.90	80.0	a c
SCR 0026-4807	00 26 26.71	-48 07 36.3	0.184	085.9	15.58	13.67	12.54	11.69	11.05	10.87	1.97	87.7	
SCR 0027-6422	00 27 40.98	-64 22 20.1	0.187	082.4	18.47	16.48	15.07	13.84	13.29	13.05	2.64	185.1	
SCR 0028-6322	00 28 59.36	-63 22 08.6	0.190	177.3	14.40	13.21	12.60	11.87	11.32	11.27	1.34	109.8	
SCR 0028-7029	00 28 50.64	-70 29 36.1	0.193	215.5	17.02	14.82	12.87	11.53	10.96	10.67	3.29	43.9	
SCR 0029-5339	00 29 50.79	-53 39 55.7	0.180	145.6	14.70	12.69	11.53	10.96	10.29	10.15	1.73	66.9	
SCR 0030-6329	00 30 19.98	-63 29 03.8	0.226	060.5	18.17	16.00	14.33	13.09	12.55	12.27	2.91	111.1	
SCR 0031-7926	00 31 10.83	-79 26 45.6	0.185	074.7	10.98	9.59	8.60	8.62	8.06	7.91	0.97	26.2	
SCR 0031-6308	00 31 48.08	-63 08 50.6	0.198	181.7	16.53	14.89	14.09	13.43	12.88	12.77	1.46	[227.8]	d
SCR 0032-6112	00 32 09.86	-61 12 21.0	0.296	190.8	17.25	15.26	14.51	13.55	12.96	12.85	1.71	[234.5]	d
SCR 0032-5541	00 32 02.12	-55 41 49.1	0.188	109.5	18.05	15.80	13.84	12.68	12.12	11.88	3.12	84.1	
SCR 0032-5528B	00 32 41.10	-55 28 51.3	0.221	115.2	17.58	15.48	13.32	12.27	11.72	11.47	3.21	70.3	a
SCR 0033-5958	00 33 08.74	-59 58 18.5	0.248	103.8	17.58	15.55	13.70	12.10	11.63	11.35	3.45	59.6	
SCR 0033-6025	00 33 08.39	-60 25 38.2	0.211	070.5	16.70	14.67	12.95	11.93	11.31	11.07	2.75	70.2	
SCR 0033-4739	00 33 12.51	-47 39 34.4	0.281	111.6	17.76	15.82	15.18	14.20	13.62	13.45	1.62	[291.7]	d
SCR 0033-6317	00 33 02.32	-63 17 50.1	0.341	072.9	15.68	13.79	11.93	10.41	9.80	9.57	3.38	26.9	
SCR 0035-6215	00 35 06.63	-62 15 53.8	0.303	126.6	16.66	14.80	12.81	11.51	10.96	10.71	3.29	49.1	
SCR 0036-5822	00 36 55.56	-58 22 03.8	0.301	057.8	17.55	15.40	13.50	12.20	11.59	11.35	3.20	63.2	
SCR 0037-4900	00 37 15.14	-49 00 27.9	0.181	247.1	17.61	15.52	13.66	12.36	11.85	11.59	3.16	75.1	
SCR 0038-5012	00 38 51.82	-50 12 10.0	0.204	111.0	15.57	13.81	13.17	12.36	11.77	11.64	1.45	125.2	
SCR 0039-5521	00 39 11.25	-55 21 26.7	0.209	103.4	13.42	11.50	10.33	9.88	9.25	9.06	1.62	41.5	
SCR 0039-5347	00 39 09.72	-53 47 25.1	0.193	097.9	18.46	16.41	14.42	13.25	12.72	12.48	3.16	114.2	
SCR 0042-5916	00 42 52.25	-59 16 58.8	0.193	222.4	15.00	12.83	11.64	10.91	10.34	10.11	1.92	61.4	
SCR 0044-6546	00 44 21.76	-65 46 27.4	0.217	063.6	16.02	14.42	13.10	12.13	11.58	11.42	2.29	108.9	
SCR 0045-6314	00 45 08.08	-63 14 44.9	0.183	129.1	15.79	14.77	14.23	13.93	13.46	13.46	0.84	293.0	
SCR 0047-6513	00 47 57.85	-65 13 25.5	0.196	103.8	16.29	14.31	12.49	11.48	10.88	10.68	2.83	58.0	
SCR 0047-4905	00 47 35.04	-49 05 48.7	0.259	100.0	15.59	13.83	13.28	12.82	12.23	12.15	1.01	[153.3]	d
SCR 0048-5343	00 48 59.33	-53 43 27.5	0.279	085.4	16.50	14.40	13.00	12.17	11.58	11.38	2.23	99.7	
SCR 0048-5807	00 48 48.05	-58 07 34.5	0.328	122.1	17.80	15.66	13.77	12.53	11.98	11.71	3.13	78.6	
SCR 0048-6110	00 48 12.61	-61 10 30.6	0.392	134.2	15.94	13.65	11.72	10.50	9.99	9.72	3.15	30.6	
SCR 0049-6034	00 49 17.39	-60 34 03.7	0.210	087.3	18.58	16.41	14.66	13.23	12.66	12.40	3.18	103.2	
SCR 0049-5150	00 49 47.60	-51 50 02.3	0.184	077.3	17.91	15.81	13.93	12.67	12.10	11.85	3.14	83.6	
SCR 0049-5045	00 49 02.62	-50 45 15.0	0.262	203.3	17.54	15.30	13.55	12.57	12.04	11.81	2.73	97.7	
SCR 0049-4831	00 49 07.74	-48 31 53.7	0.201	177.9	17.63	15.74	14.96	14.16	13.55	13.45	1.58	[305.2]	d
SCR 0050-4734	00 50 16.14	-47 34 28.5	0.232	113.7	17.24	15.11	12.84	11.83	11.28	11.03	3.28	55.6	
SCR 0050-6349	00 50 41.61	-63 49 55.4	0.200	194.1	16.33	14.30	12.58	11.48	10.91	10.70	2.82	58.0	
SCR 0051-6510	00 51 14.74	-65 10 12.2	0.286	044.2	16.84	14.74	12.94	11.91	11.31	11.06	2.84	66.7	
SCR 0051-6027	00 51 42.16	-60 27 10.8	0.194	130.1	13.90	10.94	9.84	9.53	8.87	8.65	1.41	31.9	
SCR 0052-6155	00 52 09.93	-61 55 22.8	0.220	086.9	14.82	12.63	10.86	9.98	9.35	9.12	2.65	28.8	
SCR 0052-4834	00 52 23.90	-48 34 31.5	0.187	066.3	18.32	16.27	14.49	13.38	12.84	12.63	2.89	137.6	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0054-6107	00 54 48.19	-61 07 45.9	0.200	160.5	16.63	15.29	14.70	14.04	13.55	13.38	1.25	[284.6]	d
SCR 0055-6645	00 55 30.11	-66 45 05.1	0.312	120.6	18.34	16.30	15.15	14.10	13.51	13.35	2.20	[250.9]	d
SCR 0055-5057	00 55 06.13	-50 57 02.0	0.279	286.0	17.11	14.82	12.64	11.94	11.43	11.19	2.88	70.9	
SCR 0055-5529B	00 55 10.46	-55 29 35.0	0.212	52.6	21.02	...	...	14.65	14.07	13.86	...	...	a c
SCR 0055-4957	00 55 28.12	-49 57 34.3	0.380	104.2	18.10	15.69	13.09	11.90	11.37	10.99	3.78	41.8	
SCR 0055-5529A	00 55 10.49	-55 29 41.1	0.234	053.6	17.64	15.17	14.07	12.56	11.93	11.71	2.61	88.9	a
SCR 0055-6014	00 55 53.67	-60 14 57.2	0.210	076.8	18.04	16.01	14.13	12.66	12.11	11.82	3.35	75.8	
SCR 0056-6106	00 56 06.06	-61 06 02.1	0.186	239.4	16.73	14.55	12.47	11.22	10.66	10.42	3.33	39.6	
SCR 0056-5326	00 56 43.28	-53 26 19.1	0.377	077.6	17.38	15.32	14.08	12.94	12.41	12.23	2.39	140.8	
SCR 0058-4721	00 58 23.33	-47 21 18.5	0.209	140.4	14.39	12.53	11.81	11.61	11.08	10.91	0.92	104.8	
SCR 0058-6545	00 58 38.75	-65 45 49.5	0.213	065.7	16.61	14.72	13.34	12.28	11.69	11.42	2.44	95.7	
SCR 0058-5137	00 58 18.26	-51 37 54.8	0.334	179.5	17.23	15.30	14.25	13.49	12.90	12.68	1.81	[212.5]	d
SCR 0059-6531	00 59 12.14	-65 31 34.3	0.204	190.2	17.69	15.55	14.29	13.26	12.66	12.47	2.30	158.2	
SCR 0059-4731	00 59 56.63	-47 31 36.2	0.216	045.8	16.28	13.98	12.31	11.83	11.26	11.04	2.15	86.1	
SCR 0059-5253	00 59 00.29	-52 53 34.6	0.368	093.1	16.93	15.08	13.20	11.95	11.44	11.16	3.12	65.6	
SCR 0100-7904	01 00 56.08	-79 04 25.2	0.379	215.3	13.70	11.70	9.98	8.80	8.17	7.88	2.90	14.9	
SCR 0100-6503	01 00 05.69	-65 03 52.6	0.183	200.6	18.12	16.05	14.56	13.39	12.97	12.67	2.66	157.3	
SCR 0101-5852	01 01 13.97	-58 52 24.7	0.236	184.2	15.34	13.70	12.95	12.72	12.19	12.08	0.98	172.8	
SCR 0104-4809	01 04 12.06	-48 09 09.5	0.246	142.0	16.72	14.65	13.29	13.06	12.49	12.40	1.59	[194.4]	d
SCR 0104-5249	01 04 53.60	-52 49 29.5	0.229	070.9	16.35	13.97	12.51	11.27	10.66	10.42	2.69	48.8	
SCR 0104-5742B	01 04 12.14	-57 42 48.6	0.239	091.1	16.20	15.90	15.79	15.67	15.57	15.76	0.23	[872.1]	a b
SCR 0104-8152	01 04 06.31	-81 52 52.6	0.208	013.0	15.40	14.08	13.45	12.52	12.02	11.87	1.56	135.9	
SCR 0105-6646	01 05 11.84	-66 46 20.4	0.182	095.4	15.74	13.33	11.41	11.05	10.39	10.14	2.28	51.8	
SCR 0107-4950	01 07 33.94	-49 50 34.7	0.201	083.4	18.18	16.20	14.31	13.27	12.69	12.40	2.94	121.3	
SCR 0107-5837	01 07 22.38	-58 37 49.4	0.222	084.9	16.58	14.54	12.73	12.03	11.42	11.17	2.51	82.2	
SCR 0107-4825	01 07 40.60	-48 25 51.3	0.222	171.0	17.07	15.25	14.64	14.08	13.55	13.40	1.17	[292.6]	d
SCR 0109-4707	01 09 22.75	-47 07 50.8	0.269	185.8	16.67	14.44	12.69	12.01	11.49	11.26	2.43	87.3	
SCR 0110-4911	01 10 08.88	-49 11 18.8	0.191	196.8	18.24	16.08	13.74	12.41	11.80	11.50	3.67	55.1	
SCR 0110-4957	01 10 27.33	-49 57 35.7	0.184	147.7	16.60	14.59	12.50	11.72	11.18	10.94	2.87	65.9	
SCR 0111-5713	01 11 14.00	-57 13 30.4	0.180	093.7	17.05	15.33	14.59	13.55	12.92	12.71	1.78	[193.6]	d
SCR 0112-4826	01 12 09.53	-48 26 11.0	0.181	132.5	16.27	14.03	12.29	11.32	10.68	10.44	2.71	50.7	
SCR 0112-7939	01 12 23.47	-79 39 13.1	0.323	066.3	17.16	15.14	12.89	11.18	10.62	10.34	3.96	29.3	
SCR 0112-7805	01 12 14.72	-78 05 28.6	0.224	046.0	17.23	15.41	13.80	12.26	11.68	11.47	3.14	73.4	
SCR 0112-4905	01 12 56.80	-49 05 28.8	0.202	066.4	18.19	16.07	13.87	12.77	12.18	11.94	3.31	82.2	
SCR 0112-4956	01 12 24.91	-49 56 35.1	0.253	122.8	16.28	13.91	12.29	11.75	11.26	11.02	2.16	85.1	
SCR 0113-4810	01 13 42.08	-48 10 22.7	0.299	163.6	18.23	16.08	14.38	13.54	12.99	12.79	2.54	169.8	
SCR 0114-5138	01 14 16.26	-51 38 17.4	0.299	078.3	17.53	15.21	13.36	12.21	11.67	11.39	2.99	69.6	
SCR 0116-4951	01 16 26.56	-49 51 12.7	0.206	080.3	17.41	15.18	13.52	12.55	12.00	11.77	2.64	99.8	
SCR 0117-5054	01 17 00.25	-50 54 02.4	0.187	069.2	16.08	13.72	11.47	10.89	10.27	9.99	2.83	39.8	
SCR 0118-6006	01 18 04.52	-60 06 00.5	0.228	074.8	17.05	14.99	13.32	12.63	12.06	11.88	2.35	122.9	
SCR 0118-5958	01 18 00.45	-59 58 49.6	0.207	117.0	12.04	11.64	11.32	11.03	10.58	10.53	0.62	75.8	
SCR 0119-6842	01 19 44.46	-68 42 45.6	0.215	101.1	18.25	15.70	13.20	11.77	11.24	10.91	3.93	36.2	
SCR 0122-5752	01 22 14.76	-57 52 12.6	0.204	121.8	18.00	16.10	15.35	14.72	14.23	14.00	1.39	[413.2]	d
SCR 0122-5734	01 22 36.73	-57 34 29.4	0.207	063.7	18.60	16.45	14.19	12.96	12.44	12.13	3.48	83.1	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0122-6400	01 22 21.31	-64 00 33.0	0.423	113.9	15.13	13.22	12.48	12.52	11.93	11.80	0.70	175.8	
SCR 0123-6802	01 23 59.06	-68 02 27.9	0.225	081.0	18.32	16.17	14.23	12.60	12.00	11.74	3.57	63.2	
SCR 0123-6320	01 23 48.67	-63 20 53.8	0.353	078.5	18.11	15.77	13.51	12.39	11.76	11.48	3.39	60.6	
SCR 0125-6146	01 25 03.32	-61 46 02.4	0.184	100.7	14.10	12.60	11.94	12.03	11.47	11.40	0.57	...	
SCR 0125-6359	01 25 09.06	-63 59 12.3	0.291	237.5	16.02	13.71	11.55	11.23	10.64	10.40	2.47	56.2	
SCR 0125-5814	01 25 57.89	-58 14 37.9	0.183	087.8	16.12	13.90	12.28	11.51	10.91	10.69	2.39	66.8	
SCR 0126-6614	01 26 37.25	-66 14 16.0	0.235	090.2	16.97	14.49	12.32	11.89	11.33	11.06	2.60	71.1	
SCR 0127-5213	01 27 30.83	-52 13 16.9	0.180	061.4	17.09	15.07	13.47	12.25	11.67	11.41	2.82	79.1	
SCR 0127-5927	01 27 42.14	-59 27 18.3	0.352	138.7	16.86	14.79	12.67	12.00	11.47	11.23	2.79	77.3	
SCR 0127-7655	01 27 50.49	-76 55 11.8	0.187	076.2	16.41	14.36	12.96	11.92	11.31	11.10	2.44	80.3	
SCR 0127-6211	01 27 08.32	-62 11 30.8	0.193	083.6	17.62	15.29	13.29	12.62	12.09	11.81	2.67	99.9	
SCR 0127-6103	01 27 23.34	-61 03 43.0	0.283	163.9	16.25	14.20	11.81	11.06	10.51	10.25	3.13	42.9	
SCR 0128-5031	01 28 09.23	-50 31 22.9	0.374	076.9	16.98	14.60	14.06	12.91	12.38	12.20	1.69	[159.8]	d
SCR 0128-7614	01 28 28.50	-76 14 32.0	0.220	067.6	17.38	15.26	14.08	13.18	12.56	12.42	2.08	169.2	
SCR 0128-4858	01 28 31.75	-48 58 37.7	0.251	109.5	17.79	15.80	15.15	14.15	13.58	13.42	1.65	[291.7]	d
SCR 0128-6100	01 28 11.34	-61 00 41.9	0.229	062.0	13.05	11.89	11.38	11.25	10.71	10.65	0.64	81.8	
SCR 0128-7104	01 28 50.62	-71 04 52.6	0.452	088.8	17.59	15.44	13.23	12.63	12.12	11.88	2.81	103.3	
SCR 0129-6928	01 29 15.93	-69 28 17.1	0.236	078.6	17.93	15.77	14.85	14.00	13.52	13.34	1.77	[290.5]	d
SCR 0129-5940	01 29 13.01	-59 40 26.4	0.361	105.8	...	15.36	14.56	13.91	13.44	13.21	1.45	[279.1]	d
SCR 0130-6239	01 30 31.21	-62 39 01.0	0.185	098.7	17.19	14.94	13.66	13.24	12.70	12.49	1.70	[196.3]	d
SCR 0130-6020	01 30 56.47	-60 20 57.4	0.306	129.0	17.22	15.14	12.61	11.66	11.05	10.81	3.48	46.7	
SCR 0131-5011	01 31 01.67	-50 11 01.0	0.197	116.4	16.74	14.76	12.69	11.38	10.81	10.53	3.38	42.1	
SCR 0131-6804	01 31 01.07	-68 04 33.8	0.204	165.1	18.54	16.35	14.69	13.49	12.96	12.72	2.86	139.9	
SCR 0132-5824	01 32 36.49	-58 24 52.9	0.259	118.2	15.50	13.35	11.41	10.55	10.01	9.74	2.81	37.5	
SCR 0132-5941	01 32 03.23	-59 41 53.2	0.235	148.5	16.82	14.84	12.83	12.05	11.52	11.26	2.79	79.4	
SCR 0133-7200	01 33 12.99	-72 00 04.1	0.433	172.2	16.91	14.63	12.16	11.36	10.78	10.49	3.27	42.9	
SCR 0133-6513	01 33 27.80	-65 13 59.6	0.326	064.7	17.17	14.99	12.86	12.27	11.80	11.50	2.72	89.3	
SCR 0134-8033	01 34 50.58	-80 33 36.1	0.210	065.3	16.78	14.79	13.07	11.65	11.11	10.84	3.14	53.4	
SCR 0135-6127	01 35 53.66	-61 27 11.1	0.255	256.8	15.62	13.67	11.81	10.06	9.53	9.24	3.62	20.8	
SCR 0135-5943	01 35 46.69	-59 43 14.5	0.412	081.5	17.35	15.24	13.00	12.01	11.51	11.24	3.23	63.7	
SCR 0135-8323	01 35 45.42	-83 23 53.6	0.201	083.5	18.24	16.15	15.43	14.09	13.51	13.26	2.06	[246.3]	d
SCR 0136-7607	01 36 09.43	-76 07 11.2	0.208	053.6	15.70	13.96	12.29	11.36	10.74	10.50	2.60	61.0	
SCR 0136-7115	01 36 38.23	-71 15 36.1	0.184	131.1	18.62	16.45	14.24	13.20	12.63	12.36	3.25	101.6	
SCR 0137-8240	01 37 46.90	-82 40 11.3	0.186	066.1	18.17	16.19	14.37	12.70	12.14	11.84	3.49	71.4	
SCR 0137-7428	01 37 22.18	-74 28 43.8	0.217	086.4	14.60	13.50	13.11	12.72	12.35	12.34	0.78	172.3	
SCR 0138-6638	01 38 44.04	-66 38 08.7	0.182	225.6	18.30	16.12	14.37	13.57	13.00	12.81	2.55	169.6	
SCR 0138-7855	01 38 53.97	-78 55 18.1	0.202	075.4	14.87	12.78	11.20	9.92	9.35	9.11	2.86	26.7	
SCR 0138-5353	01 38 20.51	-53 53 26.1	0.297	071.0	15.70	13.70	11.74	10.28	9.69	9.42	3.42	24.2	
SCR 0139-7536	01 39 27.90	-75 36 14.0	0.279	060.3	14.67	12.79	10.92	9.87	9.24	8.97	2.92	25.3	
SCR 0139-6013	01 39 59.94	-60 13 52.5	0.202	047.4	18.12	16.11	14.40	12.67	12.16	11.86	3.45	74.1	
SCR 0140-6852	01 40 19.51	-68 52 01.4	0.255	087.5	18.09	15.89	14.06	13.16	12.68	12.45	2.73	135.2	
SCR 0140-5906	01 40 43.93	-59 06 12.4	0.228	055.3	17.01	14.94	13.79	12.16	11.57	11.30	2.78	74.1	
SCR 0140-6812	01 40 35.24	-68 12 57.6	0.340	155.2	18.89	16.50	14.85	13.73	13.20	12.99	2.77	159.9	
SCR 0140-7929	01 40 32.83	-79 29 55.3	0.183	061.3	17.39	15.35	13.25	11.60	11.04	10.74	3.76	38.1	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0141-4947	01 41 05.53	-49 47 08.5	0.297	050.4	15.21	13.32	12.03	11.07	10.44	10.24	2.25	60.0	
SCR 0141-7126	01 41 23.03	-71 26 10.2	0.211	122.8	16.76	14.91	13.86	13.59	13.03	12.86	1.32	[245.5]	d
SCR 0141-6728	01 41 36.96	-67 28 52.1	0.195	073.3	15.81	13.50	12.19	11.37	10.79	10.56	2.14	68.2	
SCR 0142-7952	01 42 59.82	-79 52 17.9	0.206	033.8	16.84	14.90	13.67	12.44	11.86	11.65	2.46	104.6	
SCR 0143-6405	01 43 29.50	-64 05 35.6	0.323	115.1	17.29	15.56	13.53	12.74	12.25	12.00	2.82	117.3	
SCR 0145-6135	01 45 26.89	-61 35 03.6	0.194	059.7	16.89	14.91	13.26	11.86	11.16	10.93	3.05	55.6	
SCR 0146-7140	01 46 43.19	-71 40 12.8	0.220	087.4	16.69	14.63	12.41	12.08	11.53	11.28	2.54	87.3	
SCR 0148-6007	01 48 06.85	-60 07 12.9	0.228	095.1	13.07	11.85	11.28	10.47	10.01	9.93	1.38	58.6	
SCR 0148-5013	01 48 49.22	-50 13 21.3	0.196	034.2	15.73	13.62	12.04	10.68	10.08	9.89	2.94	36.4	
SCR 0149-8038	01 49 43.63	-80 38 28.1	0.464	080.5	18.41	16.35	13.83	11.67	11.11	10.72	4.68	25.2	
SCR 0150-7207	01 50 38.49	-72 07 16.8	0.334	223.9	16.19	15.72	15.24	15.65	15.64	15.42	0.06	...	b
SCR 0150-7741	01 50 27.55	-77 41 16.3	0.212	112.9	18.07	16.04	14.85	13.31	12.77	12.61	2.73	145.0	
SCR 0152-7816	01 52 58.39	-78 16 27.5	0.189	071.7	16.62	14.70	13.47	12.19	11.52	11.37	2.51	88.9	
SCR 0152-6640	01 52 03.06	-66 40 21.9	0.221	081.3	17.03	14.83	12.83	11.57	10.96	10.69	3.26	44.9	
SCR 0152-7649	01 52 09.23	-76 49 41.3	0.189	052.0	17.83	15.84	14.13	12.96	12.36	12.15	2.89	110.0	
SCR 0153-5000	01 53 24.18	-50 00 04.3	0.182	025.4	14.78	12.45	10.95	9.93	9.30	9.03	2.52	28.0	
SCR 0154-6235	01 54 31.22	-62 35 08.9	0.228	043.8	18.42	16.26	14.05	12.47	11.91	11.67	3.79	57.1	
SCR 0154-6244	01 54 46.31	-62 44 29.0	0.181	084.2	11.24	10.12	9.79	9.65	9.28	9.17	0.48	41.8	
SCR 0154-6654	01 54 39.13	-66 54 42.7	0.207	240.9	16.79	14.65	12.76	11.53	10.98	10.69	3.12	49.3	
SCR 0155-7114	01 55 59.23	-71 14 40.2	0.266	074.5	17.34	15.34	14.07	14.00	13.52	13.26	1.33	[294.5]	d
SCR 0156-6402A	01 56 52.90	-64 02 02.3	0.197	085.6	17.49	15.51	14.18	13.09	12.46	12.27	2.42	140.4	a
SCR 0156-7326	01 56 09.20	-73 26 02.5	0.224	137.5	18.22	16.02	15.06	14.07	13.47	13.28	1.95	[257.9]	d
SCR 0156-7157	01 56 40.33	-71 57 12.6	0.211	098.4	14.47	12.26	11.33	11.30	10.71	10.55	0.96	84.4	
SCR 0156-6702A	01 56 26.08	-67 02 36.2	0.183	057.4	13.55	11.37	10.22	9.44	8.75	8.59	1.93	29.7	a
SCR 0156-6702B	01 56 29.33	-67 02 32.8	0.177	047.4	21.94	19.21	16.23	13.81	13.22	12.80	5.40	45.2	a c
SCR 0156-6402B	01 56 10.61	-64 02 42.1	0.217	086.2	18.99	16.75	14.73	13.13	12.60	12.34	3.63	82.1	a c
SCR 0157-5950	01 57 00.99	-59 50 42.6	0.239	069.2	17.40	15.53	14.00	12.56	12.04	11.82	2.97	94.3	
SCR 0159-6933	01 59 58.80	-69 33 47.7	0.211	084.5	18.51	16.20	14.09	13.05	12.45	12.26	3.14	98.5	
SCR 0159-6324	01 59 20.90	-63 24 54.8	0.215	092.1	15.86	14.14	13.03	12.26	11.67	11.46	1.88	121.3	
SCR 0200-6747	02 00 14.04	-67 47 24.6	0.237	108.3	17.55	15.29	13.70	12.90	12.34	12.11	2.39	128.7	
SCR 0200-6243	02 00 40.86	-62 43 39.3	0.205	126.4	16.23	14.13	13.21	12.42	11.82	11.63	1.70	132.1	
SCR 0200-5955	02 00 02.78	-59 55 50.0	0.183	072.4	17.78	15.75	13.84	12.36	11.71	11.45	3.39	60.9	
SCR 0201-7106	02 01 59.63	-71 06 01.3	0.249	039.2	17.70	15.47	13.55	12.85	12.28	12.02	2.62	113.1	
SCR 0201-5810	02 01 43.81	-58 10 14.1	0.210	084.4	17.30	15.23	13.55	11.98	11.37	11.13	3.25	55.8	
SCR 0201-5739	02 01 38.82	-57 39 36.1	0.202	075.4	14.98	13.05	11.49	10.14	9.47	9.25	2.90	27.9	
SCR 0202-5343	02 02 46.74	-53 43 57.2	0.205	179.4	17.51	15.43	13.92	12.90	12.36	12.13	2.53	126.3	
SCR 0203-8415	02 03 45.62	-84 15 57.5	0.240	098.0	16.08	15.04	14.50	13.47	12.91	12.86	1.57	[208.2]	d
SCR 0204-5938	02 04 09.09	-59 38 58.3	0.214	024.2	19.24	16.28	15.19	13.32	12.72	12.46	2.95	97.7	
SCR 0205-5428	02 05 41.70	-54 28 09.4	0.216	076.5	18.64	16.47	14.95	14.06	13.52	13.34	2.41	230.9	
SCR 0205-6122A	02 05 56.20	-61 22 40.0	0.184	192.8	15.12	13.52	11.47	11.40	10.79	10.53	2.13	74.6	a
SCR 0205-6122B	02 05 56.20	-61 22 40.0	...	...	...	...	...	11.34	10.71	10.49	...	...	a c
SCR 0206-6729	02 06 53.05	-67 29 34.9	0.243	190.7	16.54	14.28	12.25	11.45	10.87	10.64	2.83	54.8	
SCR 0206-5742	02 06 26.18	-57 42 34.8	0.313	184.6	18.46	16.48	15.66	14.20	13.64	13.46	2.28	[257.3]	d
SCR 0206-6609B	02 07 13.90	-66 09 55.0	0.220	075.9	20.29	18.31	16.23	14.29	13.68	13.53	4.02	124.5	a c

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0206-6609A	02 06 56.20	-66 09 50.0	0.181	080.6	17.68	15.65	13.80	12.80	12.21	11.95	2.85	101.4	a
SCR 0206-5439	02 06 22.73	-54 39 58.0	0.202	083.6	16.23	14.31	13.45	12.69	12.10	11.93	1.63	152.7	
SCR 0207-5720	02 07 04.74	-57 20 08.9	0.202	139.5	13.25	12.43	11.69	10.89	10.60	10.51	1.55	81.3	
SCR 0207-5235	02 07 19.51	-52 35 39.9	0.250	164.8	18.59	16.40	15.21	14.19	13.65	13.37	2.22	[246.7]	d
SCR 0208-6505	02 08 36.76	-65 05 16.6	0.229	095.5	16.23	14.22	12.34	11.54	10.85	10.66	2.68	60.1	
SCR 0208-6801	02 08 47.23	-68 01 16.5	0.200	024.5	18.45	16.33	14.16	12.62	12.08	11.81	3.71	63.8	
SCR 0208-5355	02 08 46.70	-53 55 21.7	0.280	053.1	17.80	15.73	13.76	12.77	12.26	11.99	2.95	100.9	
SCR 0208-5329	02 08 42.06	-53 29 33.4	0.253	082.5	13.16	10.73	10.17	9.47	8.79	8.61	1.26	33.6	
SCR 0208-6127	02 08 21.96	-61 27 44.8	0.188	078.4	16.63	14.77	13.29	12.25	11.70	11.43	2.51	95.4	
SCR 0208-5730	02 08 39.03	-57 30 43.2	0.392	117.4	17.97	15.94	14.41	12.53	12.04	11.81	3.41	74.3	
SCR 0209-5436	02 09 00.42	-54 36 07.4	0.223	062.5	17.84	15.89	14.52	13.65	13.11	12.92	2.25	210.3	
SCR 0209-6001	02 09 56.53	-60 01 32.4	0.187	234.4	18.20	16.17	14.20	12.36	11.78	11.47	3.81	51.2	
SCR 0210-7316	02 10 43.70	-73 16 19.9	0.277	048.1	16.69	14.52	12.56	11.43	10.81	10.58	3.08	47.0	
SCR 0210-6304	02 10 31.84	-63 04 35.3	0.324	161.4	15.93	14.33	13.63	13.12	12.57	12.39	1.21	[197.9]	d
SCR 0210-6252	02 10 43.98	-62 52 30.0	0.456	050.0	17.23	14.95	12.91	11.85	11.29	11.01	3.10	56.8	
SCR 0211-6108	02 11 35.42	-61 08 53.8	0.234	060.8	11.69	9.73	9.23	8.67	8.15	8.07	1.06	22.9	
SCR 0212-6938	02 12 11.41	-69 38 13.5	0.274	069.6	15.01	13.14	11.85	11.21	10.60	10.37	1.93	71.4	
SCR 0212-7238	02 12 13.74	-72 38 32.0	0.250	227.3	16.13	14.01	12.33	11.37	10.75	10.52	2.64	56.0	
SCR 0212-6811	02 12 24.89	-68 11 48.7	0.197	090.1	17.19	15.10	13.65	12.67	12.14	11.91	2.43	119.4	
SCR 0212-5032	02 12 24.86	-50 32 50.1	0.198	050.7	15.57	13.44	11.50	10.52	9.93	9.64	2.92	33.2	
SCR 0213-6400	02 13 05.14	-64 00 06.4	0.202	118.4	12.31	10.60	10.10	10.06	9.57	9.40	0.54	...	
SCR 0213-5353	02 13 39.87	-53 53 14.6	0.217	070.7	17.97	15.95	14.02	13.16	12.59	12.39	2.79	131.2	
SCR 0213-6118	02 13 04.35	-61 18 29.3	0.208	098.2	17.87	15.86	13.69	12.16	11.59	11.26	3.69	49.9	
SCR 0214-5350	02 14 53.78	-53 50 17.5	0.216	194.6	16.26	14.04	12.01	11.09	10.55	10.20	2.96	42.3	
SCR 0214-7137	02 14 53.23	-71 37 36.9	0.185	038.1	18.01	15.94	14.22	12.92	12.30	12.05	3.03	94.7	
SCR 0214-6202	02 14 11.08	-62 02 57.5	0.214	076.3	17.45	15.33	13.74	12.58	11.96	11.75	2.75	93.2	
SCR 0215-6840	02 15 06.40	-68 40 34.2	0.300	084.9	17.62	15.49	14.56	13.76	13.26	13.06	1.73	[257.2]	d
SCR 0216-5257	02 16 32.03	-52 57 46.7	0.193	234.2	16.20	14.11	11.99	10.62	9.96	9.68	3.50	25.6	
SCR 0217-5255	02 17 34.30	-52 55 18.9	0.204	101.5	17.29	15.07	13.14	12.05	11.46	11.17	3.03	62.6	
SCR 0217-7234	02 17 44.06	-72 34 34.6	0.192	044.4	15.03	13.09	11.87	11.03	10.47	10.25	2.06	64.7	
SCR 0217-5233	02 17 42.62	-52 33 40.5	0.346	039.2	16.71	14.55	12.61	11.44	10.85	10.56	3.11	45.9	
SCR 0219-5026	02 19 12.24	-50 26 10.4	0.188	061.3	15.67	13.61	11.48	10.90	10.31	10.06	2.71	45.9	
SCR 0219-5610	02 19 03.25	-56 10 28.2	0.297	041.9	16.52	14.45	12.35	11.22	10.67	10.41	3.22	42.5	
SCR 0219-7102	02 19 50.81	-71 02 51.1	0.275	041.0	16.92	14.78	13.45	12.82	12.13	11.92	1.96	137.0	
SCR 0219-8343	02 19 37.98	-83 43 51.0	0.256	040.3	17.50	15.64	13.82	12.30	11.77	11.56	3.34	70.9	
SCR 0220-6904	02 20 15.07	-69 04 03.5	0.319	076.9	17.96	15.75	14.67	13.97	13.35	13.18	1.78	[261.3]	d
SCR 0220-6358	02 20 54.84	-63 58 17.5	0.291	098.6	17.08	15.18	14.01	13.06	12.53	12.32	2.12	[166.9]	d
SCR 0220-5226	02 20 06.85	-52 26 23.5	0.329	095.7	16.58	14.32	13.09	12.10	11.61	11.37	2.22	98.6	
SCR 0220-5345	02 20 03.12	-53 45 24.3	0.196	102.9	18.39	16.30	15.30	14.74	14.25	13.99	1.56	[408.3]	d
SCR 0220-6240	02 20 30.95	-62 40 52.1	0.192	086.3	14.35	12.44	11.49	11.01	10.42	10.25	1.43	72.5	
SCR 0220-7841	02 20 43.68	-78 41 51.4	0.308	093.3	18.02	16.29	15.58	14.69	14.10	13.93	1.60	[365.0]	d
SCR 0221-6223	02 21 55.12	-62 23 28.2	0.197	097.3	16.82	14.91	13.13	12.24	11.72	11.49	2.67	93.3	
SCR 0221-6418	02 21 23.55	-64 18 47.8	0.267	075.3	17.24	15.33	13.20	12.06	11.50	11.25	3.27	63.6	
SCR 0222-6336	02 22 06.67	-63 36 16.7	0.297	080.9	17.46	15.35	13.46	12.25	11.66	11.42	3.10	69.5	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0222-5238	02 22 45.75	-52 38 11.0	0.187	099.3	13.82	11.40	10.47	9.73	9.13	8.89	1.67	36.2	
SCR 0222-6408	02 22 10.37	-64 08 28.4	0.189	098.3	15.39	13.25	11.58	10.89	10.26	10.02	2.36	50.1	
SCR 0222-5758	02 22 31.55	-57 58 26.7	0.303	196.0	16.70	14.54	12.44	11.60	11.06	10.80	2.94	57.9	
SCR 0223-8806	02 23 10.29	-88 06 52.5	0.188	225.6	15.93	14.04	12.34	11.51	10.89	10.66	2.54	66.0	
SCR 0223-8227	02 23 05.03	-82 27 59.1	0.204	076.3	18.32	16.49	15.64	14.40	13.83	13.66	2.09	[308.3]	d
SCR 0224-6433	02 24 10.97	-64 33 01.7	0.448	107.3	16.26	13.96	11.79	10.94	10.43	10.12	3.02	39.9	
SCR 0224-5728	02 24 13.41	-57 28 15.5	0.182	023.7	13.19	11.32	10.16	9.85	9.25	9.02	1.47	40.5	
SCR 0224-6446	02 24 39.00	-64 46 15.6	0.317	197.9	18.12	16.08	14.58	13.71	13.19	12.96	2.37	[201.5]	d
SCR 0224-5659	02 24 03.42	-56 59 28.5	0.194	087.7	18.32	16.11	13.92	12.35	11.78	11.48	3.76	51.7	
SCR 0224-5424	02 24 12.17	-54 24 35.2	0.215	146.4	16.98	15.23	14.43	13.77	13.28	13.08	1.46	[268.4]	d
SCR 0224-5608	02 24 18.98	-56 08 41.3	0.217	162.0	16.55	14.47	13.69	13.05	12.40	12.22	1.41	[177.5]	d
SCR 0224-6946	02 24 54.00	-69 46 53.1	0.194	085.4	14.79	12.42	10.97	10.73	10.18	9.95	1.69	59.6	
SCR 0225-7548	02 25 59.11	-75 48 49.9	0.367	090.0	16.55	14.95	14.17	13.30	12.74	12.57	1.65	[194.6]	d
SCR 0225-5628	02 25 26.55	-56 28 55.8	0.231	142.2	15.63	13.51	12.48	11.81	11.33	11.07	1.70	104.2	
SCR 0226-5348	02 26 52.55	-53 48 45.1	0.183	220.4	17.91	15.80	14.23	13.27	12.76	12.52	2.54	151.5	
SCR 0227-4736	02 27 00.97	-47 36 48.0	0.240	078.5	···	15.60	13.67	12.58	12.03	11.75	3.03	83.4	
SCR 0228-6248	02 28 13.92	-62 48 04.5	0.229	060.8	15.84	13.53	11.28	10.43	9.86	9.57	3.10	29.5	
SCR 0228-5952	02 28 11.47	-59 52 20.7	0.181	096.5	17.87	15.81	14.99	14.33	13.91	13.69	1.48	[358.5]	d
SCR 0228-5641	02 28 40.21	-56 41 30.1	0.190	105.1	12.89	10.99	10.50	10.03	9.47	9.37	0.96	42.6	
SCR 0228-6801	02 28 49.03	-68 01 52.2	0.232	075.3	17.90	15.71	13.48	12.44	11.90	11.64	3.27	73.1	
SCR 0228-5325	02 28 18.91	-53 25 56.0	0.190	097.8	18.21	16.04	14.16	12.96	12.37	12.12	3.08	95.5	
SCR 0229-7237	02 29 59.71	-72 37 05.1	0.274	055.0	18.38	16.14	14.09	12.63	12.04	11.81	3.51	67.0	
SCR 0229-7614	02 29 53.09	-76 14 10.6	0.193	068.2	16.16	14.09	12.53	11.68	11.04	10.84	2.40	72.1	
SCR 0229-7028	02 29 07.52	-70 28 11.6	0.253	089.8	16.08	14.11	12.23	11.56	10.93	10.75	2.55	67.9	
SCR 0229-6656	02 29 04.55	-66 56 45.1	0.181	103.3	14.11	13.06	12.63	12.56	12.21	12.13	0.51	164.1	
SCR 0230-6328	02 30 21.60	-63 28 40.5	0.243	088.2	16.48	14.23	12.43	11.95	11.37	11.10	2.28	84.1	
SCR 0231-5834	02 31 29.21	-58 34 44.5	0.257	190.0	18.48	16.39	14.43	13.27	12.74	12.56	3.12	121.5	
SCR 0232-8458	02 32 50.12	-84 58 09.5	0.220	141.9	12.31	10.17	9.88	9.00	8.34	8.18	1.17	24.9	
SCR 0232-5850	02 32 00.89	-58 50 19.3	0.203	126.9	16.80	14.78	12.73	12.18	11.67	11.43	2.60	92.8	
SCR 0233-6513	02 33 35.95	-65 13 20.7	0.206	067.4	18.12	15.95	13.97	12.89	12.35	12.09	3.06	97.6	
SCR 0233-8536	02 33 48.37	-85 36 22.9	0.204	062.0	15.52	13.49	11.59	10.65	10.08	9.82	2.84	38.7	
SCR 0234-6227	02 34 06.17	-62 27 07.1	0.182	074.9	18.09	16.11	14.41	13.11	12.59	12.31	3.01	113.7	
SCR 0234-6036	02 34 09.15	-60 36 59.1	0.249	050.9	17.37	15.14	13.34	12.65	12.19	11.92	2.49	117.0	
SCR 0235-7043	02 35 14.37	-70 43 13.6	0.220	107.4	16.85	14.70	13.79	13.23	12.74	12.47	1.47	[205.2]	d
SCR 0235-6000	02 35 33.08	-60 00 21.9	0.272	046.8	13.50	11.50	10.76	10.48	9.81	9.70	1.02	57.7	
SCR 0237-6049	02 37 55.84	-60 49 17.5	0.213	158.7	18.05	15.89	14.52	13.87	13.39	13.14	2.02	[245.4]	d
SCR 0237-6747	02 37 42.19	-67 47 32.2	0.213	086.3	16.00	13.77	12.22	11.70	11.12	10.96	2.06	86.6	
SCR 0238-7142	02 38 49.17	-71 42 03.4	0.281	061.9	17.69	15.54	13.57	12.48	11.91	11.64	3.07	78.3	
SCR 0238-6952	02 38 34.60	-69 52 29.9	0.202	042.8	16.91	14.76	13.26	12.66	12.12	11.89	2.10	133.4	
SCR 0238-5257	02 38 58.85	-52 57 32.7	0.193	214.1	16.56	14.76	13.05	12.08	11.50	11.29	2.68	85.1	
SCR 0239-7207	02 39 44.57	-72 07 53.8	0.199	039.2	15.53	13.37	11.99	11.34	10.81	10.58	2.03	74.7	
SCR 0239-6015	02 39 44.30	-60 15 55.3	0.185	066.5	18.07	15.93	14.00	13.16	12.56	12.26	2.77	118.8	
SCR 0240-6043	02 40 16.59	-60 43 09.7	0.269	097.4	15.17	12.86	11.09	10.86	10.31	10.05	2.00	57.1	
SCR 0241-7305	02 41 24.47	-73 05 00.3	0.190	064.3	16.92	14.80	12.80	11.64	11.02	10.75	3.15	49.3	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0241-6459	02 41 09.78	-64 59 41.2	0.353	178.5	16.44	14.71	13.94	12.96	12.43	12.27	1.75	[171.2]	d
SCR 0241-7719	02 41 29.53	-77 19 56.1	0.187	059.3	17.47	15.45	13.46	12.19	11.61	11.40	3.26	66.1	
SCR 0242-5935	02 42 26.39	-59 35 01.6	0.466	185.2	16.03	15.01	14.03	13.55	12.99	12.78	1.46	[228.8]	d
SCR 0242-6051	02 42 14.17	-60 51 39.2	0.260	183.0	18.10	15.85	13.71	12.84	12.30	12.05	3.01	98.2	
SCR 0242-8138	02 42 22.48	-81 38 53.6	0.201	105.0	17.73	15.91	15.08	13.87	13.29	13.14	2.04	[247.0]	d
SCR 0243-6044	02 43 09.21	-60 44 24.9	0.190	178.8	18.23	16.08	13.93	13.16	12.68	12.38	2.91	123.0	
SCR 0243-6746	02 43 51.46	-67 46 48.0	0.251	085.6	15.24	13.07	11.44	11.20	10.61	10.38	1.87	70.3	
SCR 0243-7249	02 43 13.37	-72 49 51.6	0.198	051.2	15.55	13.58	11.97	11.07	10.39	10.18	2.51	51.5	
SCR 0244-7217	02 44 43.32	-72 17 02.6	0.188	084.5	18.85	16.50	13.94	12.65	12.08	11.85	3.84	61.1	
SCR 0245-6038	02 45 27.77	-60 38 58.2	0.196	049.6	17.16	16.36	16.07	15.83	15.47	15.67	0.53	[821.9]	b
SCR 0246-7024	02 46 02.25	-70 24 06.3	0.259	113.2	15.71	13.33	10.71	9.84	9.33	9.02	3.49	20.0	
SCR 0246-4935A	02 46 23.44	-49 35 03.2	0.247	072.3	14.66	11.96	10.17	10.25	9.63	9.36	1.71	40.0	a
SCR 0246-4935B	02 46 23.96	-49 35 09.9	0.233	51.2	19.11	···	18.83	12.33	11.70	11.41	···	31.4	a c
SCR 0246-5531	02 46 15.01	-55 31 18.9	0.199	128.6	13.02	11.87	11.42	11.17	10.73	10.67	0.70	81.8	
SCR 0246-5724	02 46 46.71	-57 24 47.5	0.189	195.2	13.45	11.50	10.89	10.45	9.85	9.73	1.05	54.2	
SCR 0246-7322	02 46 54.02	-73 22 44.8	0.272	077.3	15.99	14.66	14.13	13.55	13.06	12.89	1.10	[222.7]	d
SCR 0247-6136	02 47 39.88	-61 36 18.3	0.202	087.1	16.60	14.32	12.79	12.20	11.70	11.44	2.13	105.7	
SCR 0247-5818	02 47 58.07	-58 18 20.9	0.217	049.3	18.43	16.20	14.41	13.29	12.67	12.43	2.92	116.6	
SCR 0247-5729	02 47 14.61	-57 29 21.5	0.216	187.7	16.56	14.16	11.78	11.20	10.62	10.36	2.96	45.1	
SCR 0247-5538	02 47 37.98	-55 38 26.1	0.188	055.0	16.72	14.73	13.00	11.89	11.33	11.06	2.84	68.1	
SCR 0247-7403	02 47 07.51	-74 03 47.6	0.241	172.9	17.15	14.98	13.00	12.46	11.86	11.62	2.52	99.2	
SCR 0248-7134	02 48 04.81	-71 34 32.9	0.207	027.7	15.99	13.85	12.10	11.59	11.05	10.80	2.27	76.2	
SCR 0248-6834	02 48 23.30	-68 34 48.4	0.211	045.6	17.98	15.81	13.75	12.77	12.24	11.93	3.04	91.7	
SCR 0248-4908	02 48 07.87	-49 08 52.8	0.212	094.1	17.63	15.85	15.02	14.39	13.87	13.65	1.46	[346.5]	d
SCR 0248-7318	02 48 47.50	-73 18 51.9	0.217	077.6	18.07	15.85	13.33	12.34	11.74	11.47	3.51	60.5	
SCR 0248-7529	02 48 46.56	-75 29 53.1	0.186	100.7	14.31	12.00	10.30	10.39	9.72	9.53	1.61	48.5	
SCR 0249-6914	02 49 13.15	-69 14 18.1	0.252	067.2	15.64	13.48	11.66	11.14	10.56	10.25	2.34	56.3	
SCR 0249-6640	02 49 37.48	-66 40 24.1	0.195	050.2	17.31	15.31	13.60	12.49	11.97	11.74	2.82	95.9	
SCR 0249-6904	02 49 00.94	-69 04 57.7	0.264	069.4	18.00	15.96	13.78	12.62	12.09	11.84	3.34	79.8	
SCR 0250-6919	02 50 20.08	-69 19 59.8	0.180	036.3	17.52	15.53	13.79	12.84	12.26	12.00	2.69	112.1	
SCR 0251-4718	02 51 32.11	-47 18 52.4	0.208	124.4	16.96	14.78	12.41	12.00	11.37	11.17	2.78	73.6	
SCR 0252-7522	02 52 45.71	-75 22 44.5	0.496	063.5	17.09	16.32	16.17	15.77	15.76	15.33	0.55	[675.9]	b
SCR 0252-7148	02 52 22.35	-71 48 46.1	0.245	036.7	18.64	16.44	14.62	13.41	12.90	12.59	3.03	122.2	
SCR 0253-7349	02 53 46.00	-73 49 22.8	0.196	065.8	15.62	13.30	11.15	10.55	10.00	9.72	2.75	37.0	
SCR 0254-7051	02 54 42.15	-70 51 45.4	0.213	063.1	18.65	16.47	14.21	13.03	12.41	12.17	3.45	83.8	
SCR 0255-7242	02 55 05.55	-72 42 42.0	0.439	051.7	17.52	15.43	14.26	13.73	13.23	13.00	1.70	[254.3]	d
SCR 0255-7924	02 55 18.39	-79 24 55.6	0.185	025.9	18.25	16.21	14.20	12.62	12.11	11.87	3.60	70.6	
SCR 0256-5436	02 56 59.00	-54 36 43.3	0.243	055.4	15.80	13.33	12.05	11.58	10.97	10.76	1.76	83.0	
SCR 0256-6745	02 56 48.30	-67 45 49.5	0.190	167.3	18.32	16.19	14.30	13.38	12.89	12.62	2.81	143.0	
SCR 0258-5048	02 58 41.85	-50 48 34.7	0.201	195.8	18.16	16.00	14.21	13.19	12.66	12.41	2.81	126.2	
SCR 0259-7508	02 59 26.08	-75 08 33.7	0.215	063.2	15.46	13.85	12.61	12.26	11.64	11.48	1.59	125.0	
SCR 0303-7436	03 03 13.84	-74 36 47.7	0.331	072.4	18.75	16.44	13.85	12.20	11.59	11.29	4.24	38.1	
SCR 0303-7209	03 03 44.06	-72 09 59.6	0.430	085.9	18.77	16.38	14.11	12.71	12.23	11.94	3.67	67.7	
SCR 0304-5720	03 04 28.36	-57 20 08.0	0.196	090.2	12.59	12.17	11.77	11.73	11.49	11.47	0.44	···	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0304-7930	03 04 30.27	-79 30 01.4	0.193	087.5	16.57	14.45	12.79	11.83	11.24	10.97	2.62	69.8	
SCR 0304-7949	03 04 50.50	-79 49 57.7	0.185	065.2	18.23	16.12	14.21	12.67	12.12	11.86	3.45	72.4	
SCR 0304-7157	03 04 50.61	-71 57 58.2	0.196	346.6	14.94	12.87	11.19	10.18	9.55	9.33	2.69	31.9	
SCR 0305-7143	03 05 00.99	-71 43 06.9	0.215	063.6	16.89	14.59	12.98	12.19	11.68	11.41	2.40	92.9	
SCR 0305-6725	03 05 37.04	-67 25 16.4	0.182	147.2	17.16	15.36	14.38	13.59	13.00	12.88	1.77	[235.1]	d
SCR 0306-5334	03 06 38.29	-53 34 56.5	0.238	194.6	18.70	16.33	14.56	13.19	12.67	12.36	3.14	99.6	
SCR 0308-7451	03 08 09.99	-74 51 17.2	0.336	085.0	15.81	13.46	11.63	11.03	10.57	10.31	2.43	56.0	
SCR 0310-6953	03 10 59.01	-69 53 42.9	0.268	067.2	17.59	15.61	14.09	12.69	12.19	11.91	2.92	97.6	
SCR 0311-6215	03 11 21.33	-62 15 15.7	0.416	083.3	15.68	16.05	16.13	16.13	16.31	16.50	-0.08	...	b
SCR 0312-7531	03 12 47.13	-75 31 01.4	0.193	214.4	16.37	14.17	12.12	11.33	10.77	10.57	2.83	54.0	
SCR 0312-7408	03 12 45.89	-74 08 33.8	0.217	110.3	18.31	16.26	14.91	13.83	13.29	13.07	2.43	203.4	
SCR 0314-7838	03 14 03.61	-78 38 55.4	0.307	036.6	17.53	15.51	13.61	12.17	11.68	11.39	3.34	63.6	
SCR 0315-5635	03 15 13.79	-56 35 20.4	0.220	167.5	16.51	14.35	12.50	11.28	10.69	10.41	3.08	43.4	
SCR 0319-6718	03 19 52.45	-67 18 36.9	0.194	055.4	18.43	16.33	14.35	12.80	12.17	11.93	3.53	71.1	
SCR 0319-6918	03 19 31.43	-69 18 40.8	0.311	057.2	15.94	13.86	12.06	10.97	10.35	10.15	2.89	42.7	
SCR 0319-7926	03 19 26.49	-79 26 49.3	0.185	045.4	17.54	15.53	13.68	12.47	11.84	11.57	3.07	76.0	
SCR 0320-6736	03 20 59.36	-67 36 12.5	0.253	077.7	18.11	16.35	15.37	14.52	14.00	13.78	1.82	[346.5]	d
SCR 0322-6842	03 22 59.54	-68 42 08.2	0.211	066.7	16.41	14.53	12.85	11.86	11.34	11.12	2.66	79.2	
SCR 0322-7913	03 22 36.57	-79 13 35.0	0.188	044.6	12.08	10.64	10.45	9.78	9.37	9.24	0.86	38.4	
SCR 0323-8059	03 23 16.61	-80 59 02.4	0.192	144.6	17.85	15.76	14.22	12.88	12.41	12.18	2.88	112.5	
SCR 0324-6757	03 24 08.97	-67 57 29.7	0.196	064.9	14.33	13.34	12.79	12.33	11.92	11.82	1.01	[135.1]	d
SCR 0325-6931	03 25 11.47	-69 31 15.1	0.294	038.5	16.12	14.16	12.28	11.11	10.57	10.28	3.05	43.8	
SCR 0325-7018	03 25 32.85	-70 18 58.1	0.183	029.8	16.42	14.36	12.75	11.46	10.86	10.61	2.90	52.0	
SCR 0326-6918	03 26 50.96	-69 18 06.1	0.248	052.0	16.17	14.27	12.79	11.85	11.22	11.02	2.43	80.7	
SCR 0326-6812	03 26 40.42	-68 12 20.2	0.189	062.4	17.08	15.04	13.18	11.99	11.38	11.14	3.05	63.2	
SCR 0326-7034	03 26 24.38	-70 34 34.0	0.223	027.8	16.96	14.78	12.95	11.51	10.93	10.67	3.27	44.4	
SCR 0326-6034	03 26 37.93	-60 34 32.1	0.231	030.0	16.03	13.94	12.38	10.95	10.39	10.12	2.99	39.8	
SCR 0328-5508	03 28 45.93	-55 08 40.3	0.228	068.5	17.57	15.44	14.01	12.85	12.27	12.01	2.59	112.7	
SCR 0331-5312	03 31 52.09	-53 12 07.6	0.186	081.5	17.60	15.60	13.96	12.84	12.32	12.10	2.76	115.7	
SCR 0331-8251	03 31 41.85	-82 51 10.2	0.447	050.8	18.24	16.43	14.65	13.20	12.69	12.46	3.23	115.1	
SCR 0331-6919	03 31 16.29	-69 19 30.3	0.223	031.3	17.16	15.28	13.54	12.31	11.74	11.51	2.97	80.9	
SCR 0332-7456	03 32 58.02	-74 56 44.8	0.182	027.9	15.39	13.16	11.24	10.77	10.18	9.95	2.39	47.9	
SCR 0332-4848	03 32 53.17	-48 48 54.0	0.187	107.6	18.19	15.61	13.84	12.72	12.12	11.84	2.89	83.3	
SCR 0335-6403	03 35 55.46	-64 03 35.2	0.183	036.7	16.50	14.38	12.24	11.70	11.12	10.89	2.68	67.8	
SCR 0336-6653	03 36 53.44	-66 53 37.7	0.185	094.8	17.85	15.83	13.60	12.33	11.82	11.56	3.49	65.4	
SCR 0338-7102	03 38 29.72	-71 02 54.1	0.180	146.3	17.38	15.85	15.12	14.11	13.50	13.38	1.74	[270.5]	d
SCR 0340-6541	03 40 29.65	-65 41 02.0	0.183	081.9	12.04	10.95	10.28	10.75	10.39	10.26	0.20	93.2	
SCR 0340-6724	03 40 59.31	-67 24 23.3	0.180	136.3	18.27	16.40	14.75	13.63	13.06	12.81	2.77	161.6	
SCR 0340-6528	03 40 17.87	-65 28 40.7	0.185	032.2	15.53	13.31	11.84	11.35	10.76	10.50	1.97	71.7	
SCR 0341-6252	03 41 40.82	-62 52 19.0	0.260	037.6	15.59	13.51	11.80	11.49	10.86	10.65	2.02	77.1	
SCR 0341-5326	03 41 21.44	-53 26 20.9	0.364	035.6	18.67	16.30	13.82	12.25	11.68	11.37	4.05	42.8	
SCR 0342-6000	03 42 21.41	-60 00 06.3	0.189	108.8	16.72	14.64	13.61	12.88	12.29	12.12	1.76	164.6	
SCR 0344-7214	03 44 20.63	-72 14 41.3	0.249	048.9	16.51	14.29	12.34	11.72	11.07	10.82	2.57	65.4	
SCR 0346-7019	03 46 17.95	-70 19 11.9	0.277	048.9	16.25	14.33	12.71	11.07	10.51	10.28	3.25	39.5	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0347-8145	03 47 25.56	-81 45 20.3	0.202	170.1	16.76	15.09	14.37	13.45	12.85	12.68	1.64	[202.6]	d
SCR 0348-6759	03 48 41.23	-67 59 10.7	0.189	122.4	18.26	16.38	14.52	13.14	12.56	12.35	3.24	105.5	
SCR 0350-8642	03 50 45.82	-86 42 21.9	0.184	039.5	15.99	14.05	12.59	11.36	10.64	10.47	2.69	53.5	
SCR 0351-7143	03 51 46.89	-71 43 12.7	0.392	122.8	18.15	15.97	15.37	14.52	14.02	13.92	1.45	[381.7]	d
SCR 0352-6824	03 52 34.31	-68 24 08.7	0.200	135.8	17.10	15.17	14.03	12.90	12.30	12.07	2.27	136.2	
SCR 0353-7232	03 53 14.60	-72 32 10.3	0.286	094.6	16.49	14.42	13.02	11.86	11.29	11.07	2.55	76.0	
SCR 0353-6844A	03 53 40.90	-68 44 22.1	0.232	038.0	16.96	14.76	12.68	11.68	11.09	10.83	3.09	53.2	a
SCR 0353-6844B	03 53 39.10	-68 44 31.4	0.238	038.1	17.09	14.92	12.94	11.87	11.30	11.02	3.05	59.3	a
SCR 0354-7109	03 54 21.53	-71 09 06.6	0.198	023.2	17.53	15.25	13.44	12.54	11.99	11.75	2.71	95.3	
SCR 0354-5243	03 54 13.19	-52 43 00.9	0.205	023.2	15.69	13.66	12.71	12.11	11.51	11.32	1.55	118.7	
SCR 0354-6848	03 54 59.45	-68 48 32.7	0.269	040.2	18.68	16.03	15.81	14.90	14.31	14.03	1.12	[398.5]	d
SCR 0354-7043	03 54 57.26	-70 43 44.6	0.217	088.6	17.77	15.88	15.08	14.36	13.85	13.62	1.52	[336.5]	d
SCR 0354-6043	03 54 33.17	-60 43 57.4	0.182	081.4	18.10	16.13	15.14	14.58	14.07	13.95	1.56	[393.4]	d
SCR 0355-5204	03 55 27.50	-52 04 15.9	0.215	205.1	17.57	15.41	13.01	11.81	11.21	10.91	3.60	44.3	
SCR 0355-5611	03 55 31.89	-56 11 28.2	0.279	029.1	17.37	16.47	16.11	16.05	15.54	15.44	0.41	[755.9]	b
SCR 0357-7343	03 57 34.34	-73 43 24.9	0.212	188.3	17.58	15.64	14.04	12.70	12.05	11.76	2.94	87.4	
SCR 0357-5110	03 57 50.27	-51 10 39.9	0.244	166.7	16.24	14.13	12.25	11.41	10.86	10.59	2.72	57.5	
SCR 0358-7058	03 58 15.84	-70 58 42.2	0.181	156.4	18.40	16.36	15.70	14.82	14.20	14.07	1.54	[403.4]	d
SCR 0358-7527	03 58 02.86	-75 27 55.0	0.184	053.2	14.37	12.46	10.88	10.69	10.12	9.75	1.77	55.4	
SCR 0359-7155	03 59 09.87	-71 55 13.2	0.310	075.9	15.91	13.68	11.73	11.00	10.47	10.23	2.68	49.0	
SCR 0359-6732	03 59 48.19	-67 32 47.1	0.244	131.3	18.88	16.25	15.68	14.96	14.33	14.09	1.29	[408.5]	d
SCR 0400-5443	04 00 17.69	-54 43 07.0	0.184	089.8	14.42	12.55	11.56	10.96	10.32	10.16	1.59	66.9	
SCR 0401-6754	04 01 28.47	-67 54 16.7	0.268	220.0	15.64	13.30	11.51	10.81	10.25	10.01	2.49	46.4	
SCR 0401-7328	04 01 01.90	-73 28 32.1	0.212	019.1	18.21	16.32	14.72	13.22	12.60	12.32	3.10	106.8	
SCR 0402-4812	04 02 02.39	-48 12 36.7	0.247	163.3	15.76	13.68	12.10	11.51	10.99	10.73	2.18	77.4	
SCR 0403-5309	04 03 46.16	-53 09 05.0	0.184	188.6	18.08	15.87	14.00	12.86	12.32	12.05	3.01	95.9	
SCR 0403-4916	04 03 53.62	-49 16 28.4	0.191	035.1	13.46	11.44	9.97	9.67	9.06	8.83	1.77	36.1	
SCR 0404-6832	04 04 54.35	-68 32 18.5	0.270	042.6	15.07	12.74	10.87	10.40	9.87	9.57	2.33	40.5	
SCR 0404-5322	04 04 02.17	-53 22 47.8	0.185	058.4	18.28	16.30	15.46	14.73	14.11	14.04	1.57	[415.5]	d
SCR 0404-6732	04 04 31.26	-67 32 47.4	0.185	192.7	14.00	11.73	10.59	10.36	9.77	9.53	1.37	53.1	
SCR 0406-7240	04 06 48.91	-72 40 34.9	0.209	045.4	17.88	15.92	14.04	12.63	12.07	11.89	3.28	83.0	
SCR 0407-6925	04 07 57.70	-69 25 59.1	0.247	029.5	18.63	16.39	14.54	13.42	12.91	12.59	2.97	125.3	
SCR 0408-6756	04 08 42.24	-67 56 23.8	0.196	039.9	18.43	16.25	14.49	13.33	12.82	12.54	2.92	126.3	
SCR 0408-6750	04 08 39.74	-67 50 59.6	0.260	062.4	15.63	13.48	11.66	11.68	11.18	10.95	1.80	92.9	
SCR 0409-6251	04 09 30.85	-62 51 05.1	0.197	026.5	13.82	11.77	10.63	10.76	10.14	9.97	1.01	62.5	
SCR 0409-6654	04 09 13.04	-66 54 08.4	0.368	081.7	16.96	15.04	13.70	13.21	12.67	12.48	1.82	[196.8]	d
SCR 0409-7923	04 09 55.86	-79 23 46.0	0.247	349.2	16.96	14.78	13.06	12.22	11.69	11.40	2.56	88.0	
SCR 0411-6859	04 11 28.15	-68 59 16.9	0.283	112.1	17.45	15.22	14.25	13.55	13.04	12.78	1.67	[226.2]	d
SCR 0411-6833	04 11 52.76	-68 33 32.6	0.265	090.2	18.82	16.45	14.16	12.85	12.39	12.07	3.60	74.7	
SCR 0412-6844	04 12 16.39	-68 44 04.2	0.313	060.0	17.23	14.99	14.16	13.56	13.09	12.93	1.43	[252.9]	d
SCR 0413-6911	04 13 55.38	-69 11 43.8	0.192	047.2	18.42	16.21	15.30	14.52	13.97	13.81	1.69	[363.2]	d
SCR 0414-6810	04 14 58.90	-68 10 33.9	0.302	093.9	16.71	14.52	12.58	11.98	11.45	11.21	2.55	82.5	
SCR 0415-6918	04 15 22.54	-69 18 06.0	0.214	094.3	17.96	15.84	13.94	12.94	12.48	12.22	2.90	115.1	
SCR 0416-6648	04 16 44.47	-66 48 18.8	0.307	179.3	16.14	13.93	12.23	12.01	11.43	11.21	1.93	101.4	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0417-5710	04 17 15.74	-57 10 25.7	0.204	055.1	16.57	14.59	12.86	11.81	11.19	10.95	2.79	66.1	
SCR 0418-7249	04 18 30.31	-72 49 47.1	0.199	024.8	14.76	12.83	11.70	10.88	10.26	10.07	1.95	61.1	
SCR 0418-6226	04 18 08.02	-62 26 54.4	0.201	006.5	18.61	16.30	14.30	13.36	12.80	12.52	2.94	121.9	
SCR 0422-6706	04 22 09.04	-67 06 00.4	0.230	070.5	17.41	15.07	13.06	12.24	11.70	11.38	2.82	75.5	
SCR 0422-6606	04 22 05.82	-66 06 23.3	0.337	037.6	15.96	13.92	11.86	11.50	10.96	10.68	2.42	69.3	
SCR 0422-7507	04 22 45.60	-75 07 42.9	0.200	056.3	17.84	15.87	13.69	12.02	11.40	11.10	3.86	42.8	
SCR 0422-7048	04 22 06.67	-70 48 45.9	0.199	174.8	16.19	13.92	12.36	11.60	11.09	10.84	2.32	74.2	
SCR 0424-6302	04 24 48.19	-63 02 09.6	0.192	030.3	16.24	14.17	11.83	11.09	10.51	10.28	3.08	43.9	
SCR 0424-4700	04 24 58.60	-47 00 04.2	0.203	181.8	18.31	16.16	13.78	12.75	12.16	11.91	3.41	77.9	
SCR 0424-6942	04 24 00.11	-69 42 18.9	0.184	178.0	12.45	11.00	9.91	9.98	9.36	9.21	1.01	48.3	
SCR 0424-6839	04 24 18.75	-68 39 24.1	0.328	060.2	17.37	15.26	13.79	12.96	12.42	12.21	2.30	144.2	
SCR 0425-6521	04 25 39.34	-65 21 56.4	0.335	066.9	18.53	16.28	14.21	13.22	12.65	12.39	3.06	110.0	
SCR 0426-6245	04 26 28.36	-62 45 18.3	0.256	083.1	16.90	14.82	13.15	12.67	12.08	11.87	2.15	130.3	
SCR 0428-6432	04 28 25.49	-64 32 17.4	0.312	016.1	17.95	16.01	14.11	13.36	12.84	12.56	2.65	153.9	
SCR 0429-5423A	04 29 05.93	-54 23 03.6	0.188	049.4	15.03	12.94	11.35	10.84	10.21	9.97	2.10	54.4	a
SCR 0429-5423B	04 29 05.93	-54 23 03.6	0.170	39.7	17.91	17.09	16.97	...	...	...	...	...	a b c e
SCR 0429-5037	04 29 57.13	-50 37 15.7	0.188	170.8	15.81	13.62	12.02	11.20	10.57	10.32	2.42	55.3	
SCR 0430-7050	04 30 33.82	-70 50 08.0	0.234	027.0	17.29	15.27	13.59	12.66	12.09	11.84	2.62	107.8	
SCR 0430-6621	04 30 12.53	-66 21 52.5	0.195	011.6	17.02	15.11	13.21	12.65	12.08	11.81	2.46	117.0	
SCR 0430-4740	04 30 29.07	-47 40 59.2	0.182	088.6	15.64	13.58	12.53	12.01	11.44	11.28	1.57	116.1	
SCR 0431-6301	04 31 47.63	-63 01 19.1	0.312	019.9	16.90	14.84	12.66	11.85	11.24	11.01	2.99	62.7	
SCR 0431-6316	04 31 59.18	-63 16 24.9	0.198	295.2	17.99	16.12	15.11	14.37	13.83	13.55	1.75	[324.0]	d
SCR 0432-6852	04 32 04.44	-68 52 58.0	0.198	034.2	15.48	13.34	12.17	11.63	10.96	10.82	1.71	90.3	
SCR 0433-7843	04 33 23.40	-78 43 17.0	0.214	159.1	16.36	14.15	12.08	11.27	10.68	10.43	2.88	48.8	
SCR 0434-7457	04 34 21.54	-74 57 41.5	0.187	152.3	16.56	14.88	14.04	13.12	12.57	12.35	1.76	176.1	
SCR 0435-7215	04 35 39.75	-72 15 59.6	0.249	010.7	18.12	16.01	14.37	13.29	12.72	12.46	2.71	133.5	
SCR 0436-8233B	04 36 06.17	-82 33 14.2	0.233	051.1	15.73	13.43	11.66	10.93	10.34	10.11	2.50	48.6	a
SCR 0437-7554	04 37 25.49	-75 54 13.9	0.343	027.5	15.75	13.84	12.10	10.87	10.30	10.07	2.97	41.5	
SCR 0437-7553	04 37 57.57	-75 53 18.5	0.387	027.5	17.64	15.73	13.78	12.31	11.75	11.50	3.42	65.1	
SCR 0439-7133	04 39 08.00	-71 33 50.0	0.196	066.3	17.70	15.72	13.76	12.54	12.01	11.76	3.18	82.5	
SCR 0440-5909	04 40 02.41	-59 09 28.7	0.187	013.3	15.65	13.65	12.02	11.31	10.69	10.44	2.34	62.7	
SCR 0440-7319	04 40 00.03	-73 19 38.0	0.194	057.0	15.26	13.32	11.82	10.58	9.99	9.72	2.74	38.0	
SCR 0442-5626	04 42 23.75	-56 26 36.3	0.306	051.8	16.27	14.15	12.08	11.33	10.72	10.46	2.82	51.5	
SCR 0442-5034	04 42 56.10	-50 34 50.0	0.247	028.4	18.13	16.29	15.43	14.76	14.28	14.07	1.53	[417.4]	d
SCR 0444-7329	04 44 44.88	-73 29 36.0	0.227	086.5	15.98	14.12	13.11	12.22	11.65	11.45	1.90	118.8	
SCR 0445-7744	04 45 11.01	-77 44 04.0	0.241	044.6	16.56	14.24	12.44	11.68	11.12	10.88	2.56	67.4	
SCR 0445-6524	04 45 09.94	-65 24 37.3	0.295	025.9	18.21	16.41	13.86	12.61	12.03	11.71	3.80	63.6	
SCR 0445-8039	04 45 56.11	-80 39 58.8	0.187	172.1	15.23	13.27	12.07	11.61	11.01	10.82	1.67	93.5	
SCR 0447-6510	04 47 42.90	-65 10 45.9	0.265	048.7	16.25	14.23	12.41	11.76	11.16	10.87	2.47	73.0	
SCR 0448-7204	04 48 22.36	-72 04 07.4	0.189	034.0	16.43	13.84	12.36	11.64	11.07	10.82	2.20	71.7	
SCR 0448-6450	04 48 28.69	-64 50 06.5	0.180	063.2	14.94	12.84	11.72	11.57	10.94	10.75	1.27	91.3	
SCR 0452-8036	04 52 19.08	-80 36 23.3	0.220	056.0	15.65	13.69	12.19	11.61	11.05	10.81	2.08	83.7	
SCR 0453-4959	04 53 56.30	-49 59 14.2	0.270	086.0	16.10	13.58	11.72	11.05	10.49	10.26	2.53	49.6	
SCR 0454-8045B	04 54 41.30	-80 45 37.9	0.195	014.2	18.74	16.48	14.09	12.64	12.02	11.75	3.84	43.0	a

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0454-8045A	04 54 40.35	-80 45 52.1	0.191	013.5	18.60	16.45	14.12	12.35	11.73	11.41	4.10	56.5	a
SCR 0458-7530	04 58 54.34	-75 30 22.9	0.193	021.5	14.34	12.60	11.85	10.81	10.14	10.04	1.79	61.7	
SCR 0501-8013	05 01 51.22	-80 13 38.8	0.336	305.0	15.72	13.60	11.98	11.01	10.47	10.21	2.59	50.4	
SCR 0502-7952	05 02 00.27	-79 52 19.9	0.237	145.2	16.55	14.71	14.06	13.03	12.46	12.28	1.67	[162.9]	d
SCR 0505-5633	05 05 05.50	-56 33 14.0	0.349	172.6	17.11	14.75	12.51	11.77	11.20	10.92	2.98	57.8	
SCR 0505-8343	05 05 04.39	-83 43 39.7	0.183	022.6	15.49	13.50	12.50	11.90	11.22	11.11	1.61	107.2	
SCR 0507-7940	05 07 56.46	-79 40 01.9	0.262	021.5	16.95	14.93	13.02	11.94	11.37	11.11	2.98	65.3	
SCR 0507-7655	05 07 14.62	-76 55 55.3	0.186	061.3	18.52	16.39	14.91	13.04	12.47	12.15	3.35	84.0	
SCR 0509-8101	05 09 54.89	-81 01 57.6	0.223	031.4	17.85	15.78	13.71	12.44	11.92	11.68	3.35	73.1	
SCR 0511-7421	05 11 34.94	-74 21 49.9	0.291	019.9	18.23	16.29	14.18	12.45	11.89	11.63	3.84	56.6	
SCR 0513-4948	05 13 21.72	-49 48 42.1	0.206	343.7	17.76	15.92	13.95	12.75	12.23	11.99	3.18	95.4	
SCR 0514-6148	05 14 49.96	-61 48 37.4	0.182	355.5	16.65	14.74	12.67	11.46	10.83	10.60	3.28	45.7	
SCR 0514-6015	05 14 49.28	-60 15 44.5	0.211	063.9	17.16	15.21	13.72	12.69	12.15	11.96	2.52	121.0	
SCR 0515-7500	05 15 33.22	-75 00 49.2	0.334	100.8	16.06	14.26	12.51	11.24	10.67	10.48	3.02	50.4	
SCR 0518-4759	05 18 19.56	-47 59 12.3	0.187	235.6	16.58	13.89	12.47	11.41	10.93	10.71	2.48	60.5	
SCR 0519-8037	05 19 31.90	-80 37 18.7	0.259	000.4	17.03	15.18	12.97	11.76	11.13	10.85	3.42	48.8	
SCR 0519-5136	05 19 14.62	-51 36 20.3	0.209	166.3	18.44	16.47	15.11	13.83	13.26	12.99	2.64	178.8	
SCR 0519-8325	05 19 34.76	-83 25 30.0	0.193	035.2	15.88	13.78	11.82	11.10	10.47	10.24	2.68	49.2	
SCR 0522-7333	05 22 53.50	-73 33 28.3	0.222	016.9	17.27	15.73	14.45	13.63	13.10	12.86	2.10	[223.4]	d
SCR 0523-8140	05 23 32.21	-81 40 09.8	0.181	097.1	16.34	14.36	13.25	12.56	11.92	11.79	1.80	140.4	
SCR 0523-7249	05 23 36.82	-72 49 14.5	0.251	012.7	17.54	16.19	14.06	12.44	11.81	11.56	3.75	64.9	
SCR 0524-5604	05 24 38.67	-56 04 05.5	0.251	349.2	16.76	14.92	13.15	12.43	11.88	11.64	2.49	108.4	
SCR 0525-7425	05 25 45.52	-74 25 26.0	0.417	040.2	14.81	12.89	11.35	10.03	9.42	9.21	2.86	28.7	
SCR 0526-8257	05 26 53.16	-82 57 23.5	0.283	016.0	17.09	15.13	13.13	12.12	11.48	11.22	3.02	67.7	
SCR 0527-4928	05 27 37.36	-49 28 16.7	0.236	169.3	17.37	15.45	13.45	12.32	11.74	11.52	3.14	76.2	
SCR 0527-7231	05 27 06.99	-72 31 20.0	0.368	018.3	16.01	13.97	11.77	10.34	9.76	9.47	3.63	22.6	
SCR 0529-6157	05 29 06.80	-61 57 14.7	0.195	035.1	16.90	14.66	12.05	11.08	10.47	10.24	3.58	33.7	
SCR 0529-7330	05 29 59.33	-73 30 36.0	0.269	013.4	17.92	16.06	14.38	12.66	12.10	11.85	3.40	77.3	
SCR 0532-7405	05 32 41.45	-74 05 58.2	0.198	029.9	15.75	13.89	12.43	11.26	10.64	10.43	2.63	56.4	
SCR 0535-6019	05 35 11.52	-60 19 00.9	0.189	350.7	12.50	11.04	10.36	10.03	9.47	9.33	1.01	47.6	
SCR 0535-5103	05 35 57.51	-51 03 48.7	0.218	003.8	18.56	16.26	13.66	12.05	11.42	11.13	4.20	36.1	
SCR 0537-5612	05 37 53.75	-56 12 17.3	0.402	122.7	···	14.89	13.12	12.33	11.85	11.57	2.56	96.9	
SCR 0537-7817	05 37 34.24	-78 17 27.8	0.217	041.2	17.65	15.59	13.75	12.47	11.95	11.71	3.12	81.1	
SCR 0537-7421	05 37 17.45	-74 21 26.6	0.201	138.9	17.29	15.60	13.84	12.14	11.60	11.31	3.46	61.0	
SCR 0537-5730	05 37 22.47	-57 30 53.0	0.214	024.8	11.39	10.08	9.38	9.17	8.68	8.60	0.91	35.2	
SCR 0540-7700	05 40 30.11	-77 00 57.4	0.314	061.8	17.09	15.38	13.47	11.48	10.95	10.69	3.89	38.0	
SCR 0541-8013	05 41 54.01	-80 13 47.5	0.331	007.8	17.24	14.97	13.30	12.16	11.54	11.33	2.82	72.8	
SCR 0545-6210	05 45 45.05	-62 10 53.0	0.183	035.2	13.14	11.63	10.95	10.41	9.81	9.69	1.22	56.9	
SCR 0547-8034	05 47 55.31	-80 34 03.9	0.215	331.7	15.73	13.84	11.99	10.98	10.40	10.12	2.87	44.8	
SCR 0547-4804	05 47 53.02	-48 04 53.6	0.279	158.5	15.62	14.21	11.91	11.52	10.98	10.74	2.69	73.3	
SCR 0548-7800	05 48 09.73	-78 00 25.8	0.215	347.2	13.08	11.06	9.88	9.40	8.76	8.52	1.67	32.0	
SCR 0548-5956	05 48 25.32	-59 56 39.3	0.232	010.4	18.03	15.95	14.31	13.34	12.84	12.61	2.61	154.9	
SCR 0550-7637	05 50 56.67	-76 37 13.1	0.217	048.2	15.82	13.89	12.26	10.71	10.11	9.83	3.18	32.6	
SCR 0550-6118	05 50 13.90	-61 18 48.9	0.183	041.3	17.28	15.29	13.69	12.83	12.25	12.08	2.45	129.9	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0551-8116B	05 51 54.70	-81 16 08.4	0.233	019.5	17.74	15.74	13.70	12.17	11.64	11.37	3.57	56.5	a
SCR 0551-7604	05 51 28.71	-76 04 47.4	0.258	069.4	17.10	15.15	13.41	11.62	11.14	10.87	3.53	46.4	
SCR 0551-7602	05 51 59.42	-76 02 49.0	0.277	039.1	18.31	16.23	14.48	12.55	12.02	11.73	3.68	61.6	
SCR 0551-7510	05 51 26.43	-75 10 51.6	0.188	044.2	18.32	16.20	14.84	13.19	12.74	12.45	3.01	117.1	
SCR 0551-7620	05 51 45.93	-76 20 56.3	0.184	074.4	16.23	14.03	12.68	11.10	10.50	10.27	2.93	42.2	
SCR 0553-5821	05 53 58.16	-58 21 35.0	0.188	332.6	15.56	13.34	11.79	10.93	10.37	10.11	2.42	50.7	
SCR 0554-5750	05 54 59.43	-57 50 55.6	0.208	031.1	17.50	15.57	14.16	13.31	12.74	12.55	2.26	175.8	
SCR 0556-7249	05 56 54.79	-72 49 05.9	0.383	355.3	16.55	15.07	14.29	13.08	12.61	12.46	1.99	[166.8]	d
SCR 0556-7330	05 56 57.15	-73 30 59.4	0.384	096.3	16.25	14.36	12.35	10.76	10.25	9.99	3.61	30.4	
SCR 0557-6049	05 57 00.69	-60 49 19.8	0.212	164.6	18.20	16.21	14.05	12.81	12.27	11.97	3.41	82.0	
SCR 0600-5024	06 00 03.95	-50 24 20.9	0.254	356.4	14.71	12.51	10.24	10.10	9.46	9.21	2.42	33.5	
SCR 0601-7909	06 01 17.09	-79 09 31.4	0.202	185.9	16.56	14.63	12.53	11.28	10.70	10.47	3.35	42.2	
SCR 0602-5039	06 02 53.22	-50 39 00.0	0.225	168.5	16.99	14.82	13.47	12.95	12.35	12.19	1.87	163.3	
SCR 0602-7253	06 02 41.76	-72 53 10.6	0.327	026.5	18.20	16.31	16.28	14.52	14.04	13.81	1.79	[308.4]	d
SCR 0606-7551	06 06 04.20	-75 51 24.2	0.180	021.4	11.90	10.67	10.03	9.95	9.53	9.44	0.73	47.6	
SCR 0608-7904	06 08 22.43	-79 04 44.6	0.295	139.6	15.57	13.37	11.55	10.40	9.81	9.59	2.98	31.2	
SCR 0608-7458	06 08 11.95	-74 58 59.4	0.258	335.2	18.16	16.46	13.91	12.03	11.44	11.12	4.44	36.3	
SCR 0610-5155	06 10 53.59	-51 55 04.3	0.216	100.4	14.83	13.64	12.84	12.69	12.22	12.14	0.96	176.2	
SCR 0610-6231	06 10 42.17	-62 31 32.9	0.242	349.7	16.97	14.89	12.73	11.70	11.13	10.86	3.19	53.2	
SCR 0611-7302A	06 11 18.74	-73 02 01.9	0.188	208.1	14.86	13.17	11.92	11.10	10.48	10.25	2.07	65.7	a
SCR 0611-7302B	06 11 35.53	-73 00 51.3	0.190	211.4	15.50	13.36	12.11	11.32	10.70	10.48	2.04	69.4	a
SCR 0613-6312	06 13 59.54	-63 12 27.8	0.235	003.4	16.59	14.51	12.63	11.77	11.21	11.00	2.74	69.6	
SCR 0615-5807	06 15 05.00	-58 07 43.3	0.410	314.6	16.62	14.45	12.43	11.48	10.98	10.70	2.97	54.4	
SCR 0615-7615	06 15 15.26	-76 15 54.6	0.373	070.8	18.00	16.15	14.29	13.22	12.74	12.46	2.93	132.2	
SCR 0616-5827	06 16 28.96	-58 27 20.3	0.181	322.8	17.80	15.75	13.70	12.39	11.88	11.62	3.36	70.8	
SCR 0616-6523	06 16 00.55	-65 23 57.4	0.255	336.1	17.85	15.77	13.55	12.47	11.92	11.64	3.29	73.1	
SCR 0617-5641	06 17 48.31	-56 41 00.2	0.183	302.8	16.63	14.73	13.16	11.84	11.24	11.04	2.89	66.6	
SCR 0618-6704	06 18 25.95	-67 04 00.4	0.436	031.4	14.59	12.66	10.74	10.39	9.87	9.60	2.27	45.7	
SCR 0620-5655	06 20 05.87	-56 55 32.8	0.344	347.2	16.07	13.95	12.69	11.34	10.72	10.48	2.62	54.0	
SCR 0621-6131	06 21 38.51	-61 31 22.2	0.190	089.4	16.04	13.71	12.00	11.04	10.50	10.25	2.68	47.6	
SCR 0621-5022	06 21 27.17	-50 22 46.7	0.248	159.1	18.23	15.99	13.87	12.70	12.19	11.90	3.30	79.9	
SCR 0622-4956	06 22 36.14	-49 56 29.1	0.184	002.9	17.40	15.16	12.45	11.20	10.62	10.29	3.97	28.8	
SCR 0624-6539	06 24 34.77	-65 39 25.6	0.190	120.8	16.23	14.03	13.31	11.70	11.10	10.86	2.33	71.6	
SCR 0625-7705	06 25 12.19	-77 05 22.8	0.269	080.1	17.98	15.98	14.59	13.43	12.90	12.68	2.55	163.4	
SCR 0628-6921	06 28 12.59	-69 21 34.7	0.186	150.0	15.28	14.22	13.73	13.30	12.87	12.75	0.92	207.5	
SCR 0628-4757	06 28 11.94	-47 57 52.3	0.223	336.2	16.47	14.08	12.45	11.87	11.34	11.08	2.21	84.6	
SCR 0629-6938	06 29 56.41	-69 38 13.4	0.473	153.6	18.13	16.22	14.75	13.66	13.13	12.90	2.56	[183.8]	d
SCR 0630-7643AB	06 30 46.61	-76 43 08.9	0.483	356.8	15.77	13.56	10.73	8.89	8.27	7.92	4.67	6.9	a
SCR 0630-5433	06 30 35.71	-54 33 43.7	0.231	126.4	18.06	16.01	13.55	12.18	11.63	11.35	3.84	50.7	
SCR 0630-7812	06 30 27.54	-78 12 57.0	0.180	000.3	18.01	16.05	14.54	13.38	12.79	12.54	2.67	144.0	
SCR 0631-6613	06 31 38.62	-66 13 33.5	0.237	014.1	17.01	14.82	12.63	11.63	11.07	10.76	3.19	49.5	
SCR 0632-6821	06 32 31.49	-68 21 26.9	0.243	032.8	16.26	14.21	12.41	11.25	10.70	10.42	2.96	47.6	
SCR 0632-6547	06 32 36.22	-65 47 27.9	0.202	182.8	17.26	15.07	13.04	12.11	11.49	11.21	2.96	66.2	
SCR 0632-6455	06 32 22.14	-64 55 32.4	0.229	131.3	17.87	15.83	14.89	14.26	13.72	13.49	1.58	[318.5]	d

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0632-6257	06 32 31.52	-62 57 37.5	0.216	036.2	15.79	14.27	13.49	13.18	12.56	12.42	1.09	[199.1]	d
SCR 0633-7405	06 33 45.91	-74 05 59.4	0.196	001.6	17.34	15.50	13.65	12.39	11.82	11.53	3.12	76.8	
SCR 0633-6823	06 33 37.96	-68 23 50.8	0.297	004.6	16.22	14.04	12.10	11.16	10.60	10.31	2.88	46.1	
SCR 0635-7021	06 35 28.01	-70 21 24.7	0.184	202.3	17.12	15.13	13.09	11.76	11.08	10.83	3.37	46.8	
SCR 0635-5717	06 35 22.66	-57 17 49.2	0.193	355.3	13.59	11.51	10.04	9.59	8.99	8.72	1.93	32.5	
SCR 0635-6722	06 35 48.81	-67 22 58.5	0.383	340.0	12.21	9.84	8.67	8.54	7.96	7.69	1.30	22.7	
SCR 0635-7042	06 35 10.90	-70 42 58.6	0.319	015.1	18.50	16.49	14.07	12.44	11.91	11.63	4.06	52.2	
SCR 0635-7356	06 35 27.14	-73 56 52.8	0.327	014.4	17.37	15.73	14.83	13.91	13.32	13.16	1.81	[252.1]	d
SCR 0636-6915	06 36 45.99	-69 15 46.7	0.394	358.8	18.29	16.17	14.21	12.85	12.33	12.08	3.32	86.7	
SCR 0639-6934	06 39 22.30	-69 34 12.5	0.258	023.5	13.68	11.25	10.11	9.55	8.94	8.73	1.70	33.4	
SCR 0639-6939	06 39 08.43	-69 39 31.5	0.251	021.2	14.60	12.40	10.59	10.09	9.49	9.25	2.31	36.0	
SCR 0642-4933	06 42 03.29	-49 33 56.3	0.189	217.2	16.73	14.31	12.18	11.13	10.56	10.29	3.18	38.3	
SCR 0643-6627	06 43 23.77	-66 27 01.1	0.322	124.8	17.44	15.29	13.37	12.72	12.24	11.98	2.57	118.6	
SCR 0644-5833	06 44 20.77	-58 33 02.6	0.328	325.5	17.78	15.76	13.54	12.28	11.67	11.40	3.48	59.2	
SCR 0644-4820	06 44 58.47	-48 20 13.2	0.185	337.4	17.44	15.31	13.30	12.09	11.49	11.20	3.21	59.1	
SCR 0645-6453	06 45 17.24	-64 53 14.5	0.200	340.5	12.97	10.92	9.72	9.82	9.17	8.98	1.10	41.7	
SCR 0646-6632	06 46 10.32	-66 32 16.6	0.207	186.3	16.41	14.17	12.18	11.52	10.92	10.65	2.66	59.0	
SCR 0647-6014	06 47 39.84	-60 14 32.4	0.204	189.9	16.18	14.05	12.17	11.63	11.08	10.86	2.42	74.1	
SCR 0647-8023	06 47 32.16	-80 23 33.5	0.316	004.8	15.89	13.99	12.04	11.04	10.46	10.20	2.95	44.9	
SCR 0648-5400	06 48 42.51	-54 00 03.1	0.227	315.4	16.54	14.47	12.65	11.69	11.16	10.93	2.78	66.5	
SCR 0648-6339	06 48 40.63	-63 39 44.4	0.264	354.2	18.77	16.43	13.94	12.48	11.99	11.69	3.95	54.1	
SCR 0651-6534	06 51 10.14	-65 34 06.9	0.223	015.0	14.58	13.50	12.92	12.71	12.25	12.16	0.79	162.6	
SCR 0651-6852	06 51 48.81	-68 52 37.5	0.186	341.4	17.46	15.48	14.04	12.76	12.17	11.89	2.72	103.2	
SCR 0651-5653	06 51 23.64	-56 53 45.6	0.284	328.4	16.67	14.74	13.76	12.80	12.17	11.99	1.94	[147.2]	d
SCR 0651-6352	06 51 54.41	-63 52 44.1	0.193	139.4	13.95	12.94	12.38	12.40	12.04	11.96	0.53	...	
SCR 0651-8005	06 51 14.75	-80 05 58.0	0.186	124.7	16.96	15.21	13.23	11.81	11.30	11.07	3.40	57.3	
SCR 0653-7657	06 53 33.51	-76 57 00.0	0.202	092.3	18.45	16.49	14.81	13.01	12.53	12.23	3.48	88.0	
SCR 0654-5344	06 54 10.14	-53 44 09.0	0.194	162.8	15.68	13.70	12.34	12.10	11.50	11.30	1.60	116.4	
SCR 0654-7358	06 54 06.30	-73 58 03.6	0.467	020.2	18.18	16.23	15.10	13.98	13.47	13.28	2.25	[246.7]	d
SCR 0654-5755	06 54 54.09	-57 55 55.4	0.184	339.3	17.28	15.11	13.41	12.91	12.30	12.04	2.20	134.7	
SCR 0656-6415	06 56 04.11	-64 15 05.1	0.193	167.6	13.50	11.96	11.24	11.07	10.48	10.34	0.89	78.3	
SCR 0656-7534	06 56 00.99	-75 34 06.9	0.209	000.3	17.52	15.59	13.51	11.98	11.41	11.14	3.61	50.2	
SCR 0657-7219	06 57 06.32	-72 19 24.0	0.240	126.7	16.10	13.86	13.47	12.40	11.76	11.58	1.46	[126.5]	d
SCR 0657-7057	06 57 52.20	-70 57 32.6	0.255	152.2	16.43	14.39	12.51	11.56	11.03	10.74	2.84	59.6	
SCR 0658-6038	06 58 57.68	-60 38 24.5	0.190	174.2	17.11	15.60	14.93	14.40	13.86	13.70	1.20	[357.2]	d
SCR 0659-5622	06 59 40.76	-56 22 47.4	0.238	187.6	15.80	13.48	11.19	10.35	9.77	9.49	3.14	28.0	
SCR 0700-5849	07 00 02.11	-58 49 08.2	0.197	011.9	13.71	12.08	10.79	10.81	10.14	9.94	1.27	64.2	
SCR 0701-7710	07 01 40.54	-77 10 24.6	0.194	356.2	17.94	16.03	14.71	13.12	12.57	12.35	2.91	120.1	
SCR 0705-6348	07 05 23.74	-63 48 22.4	0.270	152.0	18.05	15.78	13.64	12.34	11.74	11.43	3.43	57.8	
SCR 0705-6730	07 05 41.28	-67 30 55.1	0.192	017.1	16.22	14.34	12.49	11.63	10.97	10.75	2.71	63.5	
SCR 0706-7606	07 06 26.69	-76 06 25.3	0.289	003.9	17.62	15.44	15.38	14.42	13.87	13.74	1.02	[250.4]	d
SCR 0706-6507	07 06 52.13	-65 07 26.7	0.224	151.2	17.16	15.54	14.89	14.00	13.45	13.34	1.54	[269.2]	d
SCR 0707-7203	07 07 58.68	-72 03 31.4	0.243	004.5	18.33	16.50	15.10	13.73	13.19	12.99	2.76	176.9	
SCR 0707-6733	07 07 19.93	-67 33 45.6	0.218	342.2	12.30	10.62	9.86	9.57	9.02	8.88	1.05	38.3	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0708-7009	07 08 25.67	-70 09 09.0	0.268	017.5	16.39	14.50	12.54	11.40	10.87	10.64	3.10	52.2	
SCR 0708-4715	07 08 57.82	-47 15 26.4	0.209	134.3	17.22	15.18	13.12	12.26	11.75	11.46	2.92	81.1	
SCR 0708-4709	07 08 32.04	-47 09 30.6	0.402	115.0	14.49	12.48	11.58	11.44	10.90	10.76	1.04	93.6	
SCR 0708-6706	07 08 52.28	-67 06 31.4	0.246	246.2	17.03	15.82	15.26	14.71	14.65	14.47	1.11	[479.6]	d
SCR 0709-5333	07 09 31.74	-53 33 51.8	0.287	100.6	16.90	14.70	13.00	12.46	11.95	11.69	2.24	115.6	
SCR 0710-5320	07 10 29.04	-53 20 11.7	0.211	327.5	18.32	15.81	13.41	12.27	11.67	11.40	3.54	54.0	
SCR 0710-5441	07 10 03.73	-54 41 11.0	0.324	143.0	16.99	15.13	14.08	13.80	13.19	13.05	1.33	[267.4]	d
SCR 0711-6336	07 11 28.67	-63 36 52.6	0.225	000.3	17.48	15.21	13.21	12.18	11.60	11.35	3.04	68.1	
SCR 0712-6706	07 12 04.69	-67 06 01.4	0.202	008.0	16.48	14.49	12.69	11.55	10.90	10.70	2.94	54.3	
SCR 0714-8401	07 14 50.04	-84 01 08.0	0.182	023.8	16.81	14.96	13.23	12.18	11.62	11.40	2.78	85.5	
SCR 0714-8420	07 14 23.83	-84 20 07.5	0.245	349.3	16.25	14.10	12.56	11.57	11.00	10.78	2.52	66.4	
SCR 0714-7140	07 14 26.18	-71 40 37.8	0.199	336.9	18.06	16.01	13.73	11.72	11.09	10.77	4.29	29.8	
SCR 0716-5302	07 16 29.38	-53 02 07.8	0.238	335.5	15.99	14.43	11.64	10.84	10.30	10.00	3.59	35.6	
SCR 0717-5709	07 17 10.92	-57 09 36.9	0.204	354.3	17.80	15.76	13.63	12.54	11.97	11.67	3.22	76.0	
SCR 0717-7503	07 17 36.58	-75 03 41.6	0.331	353.4	17.35	15.16	12.71	11.67	11.09	10.80	3.50	45.0	
SCR 0718-5638	07 18 56.25	-56 38 18.9	0.325	331.0	17.62	15.59	13.26	12.27	11.66	11.45	3.32	67.3	
SCR 0718-4738	07 18 22.82	-47 38 36.7	0.304	350.9	18.75	16.43	14.09	12.67	12.13	11.84	3.76	61.4	
SCR 0719-5050	07 19 35.35	-50 50 52.4	0.216	107.3	16.00	13.74	10.88	10.33	9.74	9.48	3.42	26.6	
SCR 0720-7719	07 20 53.31	-77 19 12.3	0.211	095.4	18.09	16.05	13.98	13.11	12.64	12.42	2.94	128.1	
SCR 0721-5809	07 21 56.23	-58 09 39.6	0.230	306.7	17.99	16.03	13.84	12.43	11.88	11.62	3.60	63.8	
SCR 0723-4921	07 23 42.22	-49 21 16.7	0.191	350.7	17.15	15.10	13.60	12.52	11.97	11.73	2.58	102.9	
SCR 0724-6212	07 24 55.01	-62 12 27.1	0.188	334.7	16.35	14.07	11.94	10.93	10.36	10.10	3.14	36.8	
SCR 0724-5949	07 24 51.92	-59 49 57.3	0.217	082.0	16.91	15.19	13.44	12.13	11.61	11.39	3.07	77.4	
SCR 0725-6043	07 25 31.55	-60 43 46.2	0.217	280.3	17.33	15.16	12.96	11.72	11.20	10.90	3.44	47.8	
SCR 0726-4810	07 26 27.19	-48 10 20.0	0.335	000.0	17.78	15.75	13.98	12.69	12.21	11.98	3.06	95.9	
SCR 0726-5419	07 26 26.43	-54 19 26.9	0.200	009.2	17.66	15.42	14.53	13.17	12.66	12.42	2.25	155.4	
SCR 0726-4954	07 26 39.48	-49 54 58.4	0.260	308.0	17.90	15.90	13.63	12.28	11.81	11.50	3.62	60.8	
SCR 0727-6145	07 27 09.95	-61 45 06.9	0.277	150.4	18.28	16.29	14.47	12.98	12.41	12.15	3.31	89.7	
SCR 0727-6032	07 27 07.59	-60 32 21.8	0.271	312.0	17.42	15.51	13.67	12.38	11.89	11.65	3.13	81.8	
SCR 0727-5912	07 27 11.02	-59 12 33.8	0.202	358.6	16.18	14.22	12.50	11.53	10.92	10.69	2.70	61.5	
SCR 0727-6056	07 27 41.21	-60 56 52.2	0.219	342.2	12.61	10.71	9.98	10.06	9.48	9.37	0.65	57.4	
SCR 0728-5946	07 28 40.40	-59 46 46.3	0.238	145.2	17.47	15.53	13.73	12.25	11.60	11.38	3.28	63.5	
SCR 0729-4804	07 29 21.66	-48 04 27.3	0.304	047.1	13.95	11.54	10.20	10.02	9.44	9.19	1.52	43.3	
SCR 0730-6335	07 30 52.89	-63 35 20.0	0.348	124.0	16.31	14.00	11.82	10.80	10.22	9.98	3.20	33.7	
SCR 0731-4807	07 31 08.08	-48 07 33.3	0.235	317.6	17.72	15.59	13.00	11.32	10.77	10.41	4.27	26.1	
SCR 0731-5748	07 31 30.89	-57 48 38.9	0.188	345.6	18.26	16.28	14.27	12.86	12.26	12.06	3.42	83.0	
SCR 0732-5908	07 32 43.90	-59 08 16.8	0.202	340.7	17.85	15.88	14.15	12.79	12.21	11.92	3.09	88.9	
SCR 0732-7213	07 32 13.72	-72 13 43.1	0.343	104.7	17.65	15.46	14.30	12.96	12.42	12.25	2.51	130.9	
SCR 0732-6028	07 32 58.86	-60 28 53.9	0.338	350.5	17.62	15.70	14.04	12.59	11.99	11.73	3.11	81.3	
SCR 0733-5357	07 33 06.88	-53 57 28.0	0.190	332.4	17.44	15.58	13.60	12.25	11.64	11.35	3.33	63.0	
SCR 0733-5514	07 33 52.39	-55 14 51.2	0.192	155.9	16.53	14.61	12.74	11.51	10.90	10.60	3.10	49.0	
SCR 0734-5653	07 34 03.92	-56 53 17.6	0.215	318.0	17.44	15.22	13.67	12.42	11.79	11.57	2.80	81.6	
SCR 0734-6032	07 34 51.27	-60 32 50.0	0.228	000.0	17.25	15.25	13.09	11.64	11.08	10.78	3.61	42.3	
SCR 0735-5551	07 35 24.04	-55 51 12.3	0.206	307.6	15.75	13.86	11.99	11.18	10.60	10.39	2.69	55.7	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0735-8148	07 35 03.82	-81 48 49.6	0.195	320.2	17.23	15.39	14.30	12.92	12.33	12.10	2.47	129.1	
SCR 0736-7615	07 36 06.13	-76 15 30.6	0.226	341.0	17.74	15.60	13.12	11.98	11.35	11.07	3.61	47.7	
SCR 0736-5320	07 36 52.24	-53 20 36.4	0.196	126.5	16.39	14.42	12.95	11.93	11.36	11.14	2.49	82.6	
SCR 0736-4844	07 36 57.47	-48 44 53.1	0.283	020.0	16.11	14.05	11.94	11.15	10.56	10.35	2.90	48.4	
SCR 0738-5120	07 38 47.92	-51 20 04.7	0.185	341.1	16.46	14.26	11.89	10.73	10.22	9.97	3.54	30.5	
SCR 0739-4814	07 39 46.92	-48 14 50.1	0.192	323.3	17.95	15.93	14.15	13.01	12.40	12.16	2.92	107.7	
SCR 0740-6418	07 40 32.95	-64 18 11.0	0.181	351.1	18.17	16.37	15.49	...	...	...	...	...	e
SCR 0740-5532	07 40 59.64	-55 32 12.1	0.218	343.1	18.21	16.31	14.94	13.91	13.32	13.13	2.40	215.6	
SCR 0740-7212	07 40 00.80	-72 12 27.8	0.481	003.7	17.24	15.27	13.30	11.76	11.26	10.99	3.51	49.8	
SCR 0741-7045	07 41 03.24	-70 45 02.4	0.216	327.1	17.86	15.83	13.69	12.09	11.57	11.25	3.74	49.2	
SCR 0742-5612	07 42 26.10	-56 12 13.9	0.221	334.9	14.18	12.11	11.33	10.61	9.93	9.77	1.50	58.5	
SCR 0742-5555	07 42 02.04	-55 55 46.8	0.285	062.0	17.59	15.51	13.63	12.35	11.88	11.61	3.16	76.6	
SCR 0742-7814	07 42 10.63	-78 14 56.2	0.279	090.7	18.22	16.10	15.48	14.50	13.97	13.92	1.61	[374.2]	d
SCR 0743-6038	07 43 06.21	-60 38 36.4	0.207	318.3	16.09	14.07	12.11	11.25	10.64	10.40	2.82	50.7	
SCR 0744-5553	07 44 21.11	-55 53 11.2	0.187	351.6	14.72	12.77	11.66	10.83	10.21	10.04	1.94	60.3	
SCR 0744-5005	07 44 33.71	-50 05 51.3	0.222	323.4	17.43	15.58	13.24	12.04	11.53	11.28	3.55	59.3	
SCR 0744-6941	07 44 35.17	-69 41 58.0	0.441	001.2	17.14	15.04	13.38	12.17	11.69	11.41	2.87	78.7	
SCR 0745-4814B	07 45 29.37	-48 15 29.7	0.201	176.0	19.26	17.05	13.92	11.99	11.38	11.06	5.06	25.7	a c
SCR 0745-4814A	07 45 32.21	-48 14 56.5	0.200	174.9	18.00	15.80	13.14	11.57	11.03	10.74	4.24	31.4	a
SCR 0747-7844	07 47 55.87	-78 44 43.0	0.191	358.7	10.89	10.45	9.62	9.67	9.28	9.20	0.78	52.2	
SCR 0748-5352	07 48 16.92	-53 52 34.5	0.181	118.9	11.90	10.41	9.57	9.37	8.80	8.67	1.04	35.2	
SCR 0748-4712	07 48 13.28	-47 12 46.5	0.259	311.6	15.88	13.99	12.33	11.62	11.07	10.83	2.37	77.6	
SCR 0749-4955	07 49 29.43	-49 55 05.5	0.257	150.9	16.64	14.74	12.34	10.93	10.25	9.96	3.81	26.3	
SCR 0750-6641	07 50 07.08	-66 41 11.3	0.258	000.3	17.52	15.41	13.53	12.02	11.54	11.31	3.39	59.2	
SCR 0750-5526	07 50 27.88	-55 26 46.4	0.236	150.1	16.54	14.43	12.74	11.59	11.02	10.76	2.84	57.4	
SCR 0751-6703	07 51 18.84	-67 03 34.4	0.185	064.1	12.33	11.19	10.63	9.82	9.48	9.39	1.38	44.9	
SCR 0752-5618	07 52 15.18	-56 18 01.4	0.201	134.0	18.00	16.26	15.39	14.48	13.93	13.66	1.77	[318.4]	d
SCR 0752-4709	07 52 30.88	-47 09 47.0	0.207	328.1	17.51	15.13	12.91	11.74	11.16	10.82	3.39	44.1	
SCR 0752-6130	07 52 19.42	-61 30 54.0	0.245	335.5	17.89	15.80	13.19	11.70	11.07	10.72	4.10	32.2	
SCR 0753-6438	07 53 43.19	-64 38 24.5	0.195	336.1	14.67	12.51	11.51	10.62	9.99	9.77	1.89	52.3	
SCR 0755-8714	07 55 41.28	-87 14 40.3	0.279	344.1	16.88	14.97	12.92	11.78	11.19	10.94	3.19	56.4	
SCR 0756-5434	07 56 48.70	-54 34 57.1	0.446	324.2	17.85	15.90	13.55	11.85	11.27	10.97	4.05	38.1	
SCR 0757-5828	07 57 22.40	-58 28 42.5	0.223	135.7	18.28	16.35	14.28	12.78	12.26	12.00	3.57	77.3	
SCR 0757-7444B	07 57 06.96	-74 44 46.8	0.180	048.0	18.65	16.31	14.45	13.58	13.05	12.86	2.73	158.5	a c
SCR 0757-7444A	07 57 08.94	-74 44 53.7	0.197	050.9	14.00	12.18	11.31	11.44	10.77	10.66	0.75	99.4	a
SCR 0758-4906	07 58 06.06	-49 06 36.5	0.180	005.6	17.20	15.32	13.72	12.70	12.16	11.93	2.62	115.9	
SCR 0758-5524	07 58 33.95	-55 24 31.7	0.197	136.2	18.12	16.09	14.30	12.87	12.31	12.07	3.23	90.0	
SCR 0758-7023	07 58 19.98	-70 23 43.3	0.285	316.5	17.71	15.82	13.76	12.35	11.73	11.48	3.46	62.9	
SCR 0759-5504	07 59 16.02	-55 04 05.3	0.211	325.9	18.04	15.97	14.53	13.14	12.58	12.35	2.84	120.3	
SCR 0759-5816	07 59 21.12	-58 16 48.3	0.200	162.8	16.21	14.60	12.99	11.83	11.23	11.02	2.77	74.1	
SCR 0759-6640	07 59 08.66	-66 40 52.0	0.182	154.0	14.29	13.35	12.75	12.07	11.69	11.60	1.28	122.6	
SCR 0800-6516	08 00 06.75	-65 16 37.7	0.278	170.0	16.91	14.93	13.41	12.27	11.75	11.48	2.66	90.4	
SCR 0801-5706	08 01 45.09	-57 06 00.9	0.227	001.4	18.27	16.39	15.64	14.44	13.82	13.61	1.95	[307.9]	d
SCR 0801-5524	08 01 49.91	-55 24 55.2	0.365	358.1	16.60	14.74	13.23	12.31	11.76	11.56	2.43	105.9	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0802-4704	08 02 21.25	-47 04 31.7	0.302	303.4	16.06	14.00	11.98	11.45	10.81	10.59	2.56	61.7	
SCR 0802-6514	08 02 59.51	-65 14 39.4	0.184	339.1	16.72	14.66	13.55	12.36	11.80	11.58	2.29	106.5	
SCR 0802-6924	08 02 21.46	-69 24 31.1	0.255	346.7	17.96	16.19	14.26	12.91	12.39	12.16	3.28	99.5	
SCR 0803-8146	08 03 42.37	-81 46 22.7	0.182	338.2	15.74	14.06	12.79	11.22	10.62	10.32	2.84	49.8	
SCR 0805-7843	08 05 05.10	-78 43 37.0	0.184	159.4	12.34	10.51	10.09	9.67	9.16	9.02	0.84	37.1	
SCR 0806-6439	08 06 00.38	-64 39 21.7	0.199	110.5	16.78	14.74	12.81	11.26	10.69	10.43	3.48	37.4	
SCR 0806-7057	08 06 37.38	-70 57 30.3	0.252	332.9	16.37	14.37	12.96	11.84	11.23	11.00	2.53	74.3	
SCR 0807-7013	08 07 48.58	-70 13 39.2	0.192	279.4	15.82	13.77	11.93	10.78	10.20	9.98	2.99	38.3	
SCR 0807-6734	08 07 48.01	-67 34 35.4	0.323	096.2	15.43	13.43	12.08	10.82	10.23	10.00	2.61	45.4	
SCR 0808-7157	08 08 14.27	-71 57 17.7	0.270	313.2	16.77	14.39	12.56	11.22	10.63	10.35	3.16	38.2	
SCR 0809-6136	08 09 47.54	-61 36 36.3	0.217	341.9	15.75	13.75	11.96	10.86	10.23	10.00	2.89	40.2	
SCR 0810-7002	08 10 02.72	-70 02 12.9	0.192	130.9	17.67	15.82	13.81	12.51	11.98	11.75	3.31	79.9	
SCR 0812-6402	08 12 23.34	-64 02 23.8	0.409	340.0	17.07	15.22	13.25	11.79	11.32	11.03	3.43	54.3	
SCR 0813-4932	08 13 54.88	-49 32 32.1	0.294	153.0	16.88	15.31	13.68	11.97	11.45	11.25	3.33	65.8	
SCR 0813-7836	08 13 16.27	-78 36 42.1	0.199	144.1	16.20	14.15	12.41	11.50	10.90	10.64	2.65	60.1	
SCR 0814-4806	08 14 54.56	-48 06 19.5	0.377	326.8	15.10	12.74	11.03	10.33	9.74	9.51	2.41	37.7	
SCR 0814-6917	08 14 38.83	-69 17 44.8	0.234	348.0	16.87	15.04	13.55	12.52	11.97	11.73	2.51	110.5	
SCR 0815-7632	08 15 33.04	-76 32 26.6	0.238	334.6	15.53	13.62	12.27	11.17	10.55	10.34	2.45	57.5	
SCR 0815-5737	08 15 57.14	-57 37 36.4	0.181	146.4	15.77	14.65	14.03	13.61	13.15	13.08	1.05	[241.3]	d
SCR 0815-4710	08 15 00.37	-47 10 50.1	0.186	156.5	18.26	16.24	14.78	13.97	13.40	13.15	2.27	225.4	
SCR 0816-5103	08 16 34.92	-51 03 16.6	0.305	337.0	17.61	15.88	13.68	12.20	11.65	11.40	3.68	58.8	
SCR 0816-6804	08 16 43.77	-68 04 16.1	0.227	049.4	16.47	14.42	12.76	11.87	11.37	11.12	2.55	80.5	
SCR 0817-5600	08 17 25.20	-56 00 45.4	0.194	339.2	14.50	12.95	12.26	11.31	10.68	10.58	1.64	76.9	
SCR 0817-4714	08 17 52.35	-47 14 53.4	0.260	332.6	17.30	15.28	12.80	11.82	11.25	10.94	3.46	50.7	
SCR 0818-6326	08 18 29.76	-63 26 25.3	0.223	319.0	17.78	15.79	14.14	12.67	12.19	11.94	3.12	91.3	
SCR 0819-6734	08 19 52.39	-67 34 00.3	0.188	311.5	18.31	16.26	14.29	12.54	11.96	11.71	3.72	59.8	
SCR 0820-8003	08 20 03.38	-80 03 14.8	0.211	299.1	14.96	12.77	11.79	11.06	10.47	10.25	1.71	69.2	
SCR 0822-7225	08 22 41.73	-72 25 01.7	0.269	336.2	16.16	14.09	11.97	10.70	10.11	9.85	3.39	30.1	
SCR 0823-6957	08 23 02.11	-69 57 02.2	0.202	302.9	16.66	14.45	12.54	11.20	10.58	10.33	3.25	38.0	
SCR 0823-6558	08 23 45.87	-65 58 04.6	0.214	319.6	16.56	14.48	12.90	11.52	10.92	10.69	2.97	52.5	
SCR 0823-5545	08 23 56.79	-55 45 23.4	0.187	324.9	13.91	12.35	11.65	10.86	10.21	10.07	1.49	63.1	
SCR 0823-5908	08 23 07.67	-59 08 33.2	0.196	337.4	12.65	10.83	9.88	9.56	8.92	8.76	1.27	37.3	
SCR 0823-7056	08 23 06.76	-70 56 46.9	0.207	172.0	15.42	13.27	11.56	10.56	9.98	9.73	2.71	37.8	
SCR 0824-5351	08 24 25.32	-53 51 44.4	0.188	135.0	16.26	14.26	12.88	11.75	11.16	10.91	2.51	71.8	
SCR 0824-4701	08 24 02.09	-47 01 50.0	0.187	345.7	16.00	14.25	13.29	12.96	12.45	12.28	1.29	[190.3]	d
SCR 0824-6721	08 24 03.21	-67 21 50.4	0.403	288.9	17.54	15.29	13.13	11.55	10.95	10.69	3.74	36.0	
SCR 0828-6511	08 28 17.92	-65 11 21.3	0.185	325.6	16.56	14.55	12.76	11.72	11.08	10.89	2.84	62.5	
SCR 0828-4927	08 28 31.20	-49 27 29.7	0.311	348.6	17.39	15.86	13.63	12.75	12.23	12.04	3.10	111.3	
SCR 0832-6900	08 32 12.66	-69 00 48.3	0.228	062.4	18.51	16.12	13.87	12.83	12.34	12.08	3.29	87.1	
SCR 0832-5823	08 32 13.24	-58 23 40.7	0.258	328.6	18.54	16.40	14.10	12.59	12.05	11.75	3.82	59.0	
SCR 0833-5338	08 33 11.34	-53 38 37.6	0.212	132.6	18.54	16.43	15.39	14.19	13.71	13.48	2.24	[263.8]	d
SCR 0834-6212	08 34 07.95	-62 12 08.3	0.251	326.8	16.17	14.19	12.95	12.20	11.70	11.44	1.98	115.5	
SCR 0834-6825	08 34 19.75	-68 25 01.3	0.237	107.7	18.49	16.49	15.45	14.36	13.87	13.66	2.12	[305.2]	d
SCR 0834-5808	08 34 47.35	-58 08 31.7	0.197	271.7	17.59	15.52	13.62	11.98	11.42	11.15	3.54	50.2	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0834-5529	08 34 03.60	-55 29 53.2	0.196	291.7	14.74	12.62	10.92	10.26	9.62	9.40	2.37	37.6	
SCR 0835-7447	08 35 45.48	-74 47 36.3	0.228	118.7	17.59	15.83	13.91	12.46	11.85	11.58	3.37	70.4	
SCR 0836-5434	08 36 56.45	-54 34 30.9	0.217	318.3	18.16	16.17	13.87	12.05	11.46	11.17	4.12	39.7	
SCR 0837-5020	08 37 31.39	-50 20 10.3	0.186	184.9	14.82	12.73	11.06	11.28	10.64	10.34	1.45	75.3	
SCR 0838-5855	08 38 02.24	-58 55 58.7	0.320	188.9	18.44	16.11	12.44	10.31	9.71	9.27	5.80	8.4	
SCR 0839-6507	08 39 53.47	-65 07 39.1	0.215	357.4	15.14	13.16	11.75	10.85	10.23	10.04	2.31	53.0	
SCR 0840-7344	08 40 51.26	-73 44 22.5	0.207	154.0	16.79	15.00	13.64	12.58	11.97	11.83	2.42	119.9	
SCR 0840-7826	08 40 29.00	-78 26 46.0	0.399	010.3	16.06	15.83	15.77	15.62	15.57	15.48	0.21	[763.9]	b
SCR 0842-5737	08 42 30.10	-57 37 25.4	0.188	301.9	16.45	14.34	12.52	11.49	10.95	10.68	2.85	56.3	
SCR 0843-5154	08 43 11.05	-51 54 03.5	0.402	310.7	16.09	13.94	12.36	11.76	11.21	10.96	2.18	84.5	
SCR 0843-5007B	08 43 15.84	-50 07 24.8	0.225	338.8	16.64	14.85	12.81	11.93	11.41	11.15	2.92	74.1	a
SCR 0843-5209	08 43 38.82	-52 09 27.4	0.482	307.3	16.41	14.29	12.57	11.87	11.38	11.11	2.42	84.1	
SCR 0843-7005	08 43 05.16	-70 05 38.5	0.184	328.5	17.86	15.81	14.00	12.73	12.09	11.88	3.08	86.6	
SCR 0843-6330	08 43 01.06	-63 30 37.9	0.385	135.6	17.19	15.04	12.92	11.60	11.02	10.74	3.44	43.2	
SCR 0843-7831	08 43 58.71	-78 31 50.3	0.195	325.3	11.75	10.09	9.50	9.26	8.82	8.64	0.82	32.1	
SCR 0844-7120	08 44 54.59	-71 20 42.9	0.201	311.3	15.11	13.08	11.04	10.25	9.57	9.30	2.83	29.8	
SCR 0845-7645	08 45 09.00	-76 45 08.3	0.194	002.3	17.21	15.16	13.44	12.12	11.56	11.29	3.04	67.6	
SCR 0845-6041	08 45 26.61	-60 41 11.7	0.201	316.5	14.56	12.47	11.21	10.06	9.45	9.21	2.41	33.4	
SCR 0846-7455	08 46 47.08	-74 55 21.0	0.305	287.1	15.18	13.11	11.56	10.60	10.00	9.73	2.51	41.5	
SCR 0846-4933	08 46 40.07	-49 33 49.9	0.180	107.8	17.61	15.86	14.37	12.85	12.28	12.04	3.00	102.9	
SCR 0847-5749	08 47 22.86	-57 49 00.5	0.183	317.5	18.35	16.28	14.21	12.94	12.35	12.07	3.34	84.5	
SCR 0847-5346	08 47 17.22	-53 46 07.9	0.263	293.3	17.45	15.29	13.38	11.85	11.32	11.05	3.44	49.8	
SCR 0847-7928	08 47 16.19	-79 28 34.1	0.210	299.4	17.46	15.73	14.89	13.90	13.35	13.24	1.83	[269.0]	d
SCR 0847-7346	08 47 56.02	-73 46 32.2	0.184	339.5	17.40	15.36	13.65	12.40	11.87	11.61	2.96	82.8	
SCR 0848-6018	08 48 25.36	-60 18 57.3	0.232	323.7	18.30	16.19	13.95	12.78	12.16	11.91	3.41	76.7	
SCR 0849-7657	08 49 51.94	-76 57 07.4	0.334	305.5	17.57	15.58	13.30	11.68	11.12	10.77	3.90	36.6	
SCR 0849-5903	08 49 46.41	-59 03 33.7	0.267	280.7	18.34	16.23	14.31	13.19	12.62	12.38	3.04	112.5	
SCR 0850-4934	08 50 24.91	-49 34 23.9	0.469	295.5	17.41	15.59	13.46	12.22	11.77	11.51	3.37	72.2	
SCR 0851-6638	08 51 41.68	-66 38 38.4	0.191	114.8	16.46	14.42	12.50	11.46	10.84	10.61	2.96	52.0	
SCR 0852-4948	08 52 06.43	-49 48 00.3	0.305	318.4	17.61	15.76	13.28	12.10	11.57	11.28	3.66	56.3	
SCR 0852-4912	08 52 14.32	-49 12 11.4	0.183	151.1	16.34	14.35	12.84	12.07	11.46	11.26	2.28	94.2	
SCR 0852-6624	08 52 21.42	-66 24 30.5	0.232	011.9	16.29	14.26	13.28	12.44	11.78	11.60	1.82	126.2	
SCR 0852-6344	08 52 35.02	-63 44 40.8	0.240	153.0	16.25	14.43	12.35	11.08	10.58	10.26	3.35	39.6	
SCR 0853-7323	08 53 36.15	-73 23 12.9	0.191	315.0	15.93	13.96	12.15	10.78	10.24	9.94	3.19	34.8	
SCR 0853-7705B	08 54 32.74	-77 06 27.8	0.225	293.2	17.61	16.13	14.03	12.51	12.01	11.75	3.62	76.2	a
SCR 0853-5213	08 53 22.74	-52 13 25.1	0.217	129.2	15.72	14.73	13.77	13.16	12.68	12.54	1.56	[203.2]	d
SCR 0853-7705A	08 53 26.75	-77 05 50.6	0.211	306.7	15.99	14.06	12.32	11.24	10.71	10.43	2.82	52.6	a
SCR 0854-5406	08 54 10.76	-54 06 08.0	0.349	323.7	16.69	14.34	13.02	11.88	11.30	11.09	2.46	75.3	
SCR 0854-6138	08 54 32.11	-61 38 10.4	0.193	286.4	17.35	15.20	13.00	12.08	11.57	11.30	3.12	68.3	
SCR 0854-7036	08 54 47.92	-70 36 15.0	0.186	134.0	16.11	13.98	12.20	11.25	10.63	10.41	2.73	51.4	
SCR 0854-6640	08 54 59.15	-66 40 12.8	0.199	114.6	16.15	14.56	13.76	13.04	12.44	12.33	1.53	[180.8]	d
SCR 0854-5051	08 54 14.54	-50 51 30.0	0.240	178.4	17.97	16.19	13.89	12.54	11.97	11.73	3.65	68.9	
SCR 0854-7246	08 54 54.53	-72 46 52.3	0.214	321.2	17.16	15.31	13.73	12.35	11.78	11.60	2.96	85.0	
SCR 0855-4932	08 55 35.37	-49 32 43.2	0.258	315.1	15.87	14.05	12.45	11.47	10.90	10.72	2.57	68.2	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0856-6342	08 56 16.84	-63 42 47.4	0.190	302.0	16.52	14.31	12.54	11.56	11.00	10.72	2.75	58.3	
SCR 0857-7001	08 57 20.03	-70 01 05.7	0.184	124.9	17.44	15.49	13.64	12.49	11.96	11.71	3.00	87.9	
SCR 0857-4859	08 57 45.31	-48 59 28.3	0.233	181.1	16.96	15.60	13.36	11.77	11.17	10.96	3.83	48.4	
SCR 0857-6032	08 57 08.21	-60 32 45.4	0.217	333.3	15.21	15.38	15.46	15.94	16.20	15.78	-0.56	...	b
SCR 0858-5857	08 58 01.63	-58 57 25.3	0.272	301.4	16.44	14.42	12.53	11.56	11.00	10.75	2.86	59.0	
SCR 0858-7707	08 58 12.98	-77 07 38.8	0.226	124.8	18.15	16.29	14.78	13.57	13.03	12.81	2.72	166.0	
SCR 0858-6743	08 58 02.38	-67 43 49.3	0.207	344.5	17.94	15.88	13.69	12.15	11.57	11.28	3.73	49.4	
SCR 0858-7041	08 58 48.35	-70 41 54.1	0.206	334.2	16.35	14.16	12.19	11.03	10.47	10.20	3.13	38.9	
SCR 0859-5445	08 59 43.67	-54 45 00.2	0.342	345.1	17.85	16.02	13.85	12.28	11.77	11.53	3.75	59.7	
SCR 0859-7517	08 59 51.95	-75 17 30.3	0.291	330.7	14.64	12.66	10.96	9.86	9.24	9.03	2.79	27.0	
SCR 0904-6233	09 04 12.83	-62 33 24.3	0.185	342.3	14.80	12.58	12.50	11.92	11.34	11.18	0.67	93.2	
SCR 0904-4851	09 04 47.84	-48 51 24.0	0.185	313.7	17.58	15.80	13.54	11.49	10.94	10.60	4.31	29.7	
SCR 0905-5509	09 05 33.33	-55 09 01.6	0.243	305.8	18.37	16.49	14.35	12.58	12.04	11.81	3.90	61.4	
SCR 0905-7534	09 05 33.46	-75 34 12.2	0.182	340.3	17.98	16.10	14.78	13.61	13.05	12.86	2.49	185.6	
SCR 0905-7936	09 05 33.75	-79 36 29.2	0.259	337.0	17.73	15.90	14.42	13.15	12.63	12.38	2.76	135.1	
SCR 0907-5627	09 07 12.71	-56 27 37.3	0.215	304.6	12.93	10.82	10.13	9.79	9.22	9.09	1.03	43.4	
SCR 0907-6600	09 07 03.05	-66 00 47.9	0.186	076.6	17.68	15.73	13.22	11.67	11.11	10.81	4.06	35.9	
SCR 0907-4810	09 07 45.41	-48 10 41.2	0.187	309.7	15.12	13.05	11.93	10.88	10.25	10.04	2.16	54.2	
SCR 0908-7506	09 08 01.94	-75 06 25.5	0.239	318.0	18.09	16.26	15.51	14.47	13.84	13.56	1.80	[315.1]	d
SCR 0908-5336	09 08 34.46	-53 36 21.1	0.315	021.5	17.88	15.70	13.51	12.94	12.39	12.22	2.76	121.9	
SCR 0908-6649	09 08 14.05	-66 49 40.7	0.232	022.3	17.43	15.22	14.01	13.41	12.79	12.58	1.82	[195.5]	d
SCR 0909-6311	09 09 19.02	-63 11 25.5	0.286	330.8	18.32	16.25	14.78	13.56	13.06	12.81	2.69	162.1	
SCR 0910-5643	09 10 48.06	-56 43 22.3	0.220	358.5	15.49	13.14	10.71	10.62	10.00	9.77	2.52	40.9	
SCR 0910-7645	09 10 12.91	-76 45 46.2	0.271	349.3	16.50	14.49	12.80	11.59	11.03	10.83	2.90	59.7	
SCR 0912-6917	09 12 38.97	-69 17 07.9	0.245	110.6	16.57	14.12	12.02	11.09	10.51	10.24	3.04	39.9	
SCR 0912-5444	09 12 06.02	-54 44 04.1	0.288	230.8	16.71	14.44	11.59	11.39	10.90	10.60	3.05	51.7	
SCR 0913-6918	09 13 32.37	-69 18 19.0	0.180	314.1	16.88	14.83	12.55	11.38	10.88	10.64	3.45	44.3	
SCR 0914-7304	09 14 53.85	-73 04 19.3	0.182	319.4	16.00	13.84	11.87	10.50	9.87	9.61	3.34	26.3	
SCR 0915-4737	09 15 36.93	-47 37 41.1	0.186	121.9	12.72	11.85	11.42	11.33	10.98	10.95	0.52	95.3	
SCR 0915-5246	09 15 07.86	-52 46 48.9	0.207	333.4	18.53	16.45	14.66	13.72	13.11	12.91	2.73	165.2	
SCR 0917-5836	09 17 23.69	-58 36 25.1	0.276	281.2	16.31	14.04	12.92	12.72	12.17	12.00	1.32	[163.6]	d
SCR 0919-6246	09 19 32.16	-62 46 04.9	0.299	322.3	17.64	15.45	13.10	12.19	11.65	11.43	3.26	68.0	
SCR 0919-6112	09 19 44.98	-61 12 44.6	0.204	169.2	18.29	15.99	14.97	13.96	13.43	13.27	2.03	[251.3]	d
SCR 0920-6216	09 20 13.73	-62 16 19.9	0.202	315.8	18.03	15.68	12.94	11.54	10.96	10.65	4.14	30.8	
SCR 0920-7557	09 20 27.75	-75 57 24.8	0.262	272.5	16.03	13.96	11.82	11.12	10.55	10.26	2.83	47.7	
SCR 0920-6054	09 20 48.42	-60 54 33.0	0.185	132.0	12.94	10.84	9.81	9.76	9.19	8.95	1.09	39.9	
SCR 0921-7523B	09 21 20.88	-75 23 09.9	0.286	316.3	17.94	16.14	14.11	12.65	12.10	11.92	3.49	80.4	a
SCR 0921-7523A	09 21 23.73	-75 23 18.8	0.291	321.1	17.16	15.14	13.11	11.97	11.39	11.17	3.17	62.2	a
SCR 0921-5524	09 21 55.10	-55 24 46.5	0.240	329.0	15.39	13.46	11.55	11.66	11.16	10.91	1.80	93.0	
SCR 0923-5348	09 23 47.45	-53 48 21.4	0.219	142.5	14.81	13.26	12.41	12.79	12.23	12.08	0.48	193.7	
SCR 0923-7648	09 23 41.75	-76 48 45.7	0.368	289.2	18.04	16.38	15.81	14.60	14.14	13.99	1.78	[326.7]	d
SCR 0924-7422	09 24 31.20	-74 22 06.6	0.181	182.1	16.30	14.08	12.02	11.17	10.58	10.28	2.91	44.6	
SCR 0925-7609	09 25 59.21	-76 09 24.1	0.181	054.0	17.62	15.51	13.92	12.61	12.08	11.83	2.90	92.4	
SCR 0926-6416	09 26 18.08	-64 16 22.6	0.249	306.6	17.68	15.77	15.12	14.39	13.86	13.67	1.37	[340.1]	d

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 0927-6239C	09 27 20.99	-62 37 04.1	0.197	309.0	18.17	17.81	17.58	...	...	...	...	...	a c
SCR 0927-6239B	09 27 10.53	-62 39 50.9	0.204	312.2	17.74	15.62	13.38	11.85	11.23	10.98	3.76	41.6	a c
SCR 0928-5906	09 28 34.74	-59 06 01.5	0.200	302.5	14.28	12.44	10.62	10.81	10.16	10.00	1.63	58.0	
SCR 0929-5857	09 29 28.11	-58 57 20.5	0.248	115.8	17.35	15.33	14.03	13.25	12.72	12.49	2.08	180.1	
SCR 0930-5325	09 30 21.91	-53 25 02.1	0.190	299.2	17.16	14.80	12.62	11.78	11.22	10.99	3.03	58.6	
SCR 0930-5107	09 30 08.98	-51 07 22.0	0.204	171.2	17.93	16.17	15.11	13.33	12.76	12.57	2.84	140.2	
SCR 0930-8341	09 30 56.74	-83 41 39.0	0.242	140.4	15.58	12.62	12.93	10.84	10.27	10.02	1.78	45.6	
SCR 0930-5056	09 30 04.06	-50 56 45.4	0.230	167.1	15.32	13.41	11.90	10.66	10.08	9.86	2.76	41.0	
SCR 0931-5558	09 31 18.97	-55 58 14.4	0.184	132.8	14.57	11.83	9.93	10.04	9.48	9.14	1.79	34.5	
SCR 0932-6152	09 32 45.81	-61 52 10.9	0.186	146.2	15.00	13.02	11.45	10.98	10.35	10.10	2.04	60.0	
SCR 0932-4838	09 32 09.07	-48 38 30.3	0.228	279.3	17.23	15.48	13.58	11.54	11.01	10.70	3.94	36.9	
SCR 0933-5055	09 33 48.14	-50 55 52.9	0.203	293.1	16.23	14.41	12.77	11.60	11.06	10.82	2.81	64.7	
SCR 0934-5717	09 34 52.93	-57 17 54.2	0.334	328.7	16.73	14.43	12.01	11.67	11.06	10.82	2.76	61.4	
SCR 0938-5552	09 38 09.31	-55 52 57.2	0.251	315.9	14.06	11.28	9.73	9.66	9.03	8.81	1.62	33.0	
SCR 0943-4833	09 43 18.20	-48 33 49.9	0.216	285.4	15.31	13.27	11.30	10.18	9.56	9.27	3.10	26.0	
SCR 0946-4813	09 46 02.64	-48 13 16.8	0.191	153.5	17.03	14.92	12.96	11.39	10.81	10.57	3.53	38.4	
SCR 0946-6129	09 46 34.37	-61 29 40.2	0.183	231.3	17.59	15.39	13.21	12.27	11.71	11.42	3.12	69.8	
SCR 0946-5157	09 46 41.27	-51 57 41.6	0.210	119.4	13.41	12.46	11.99	11.96	11.62	11.57	0.50	...	
SCR 0947-7053	09 47 23.50	-70 53 35.0	0.268	345.8	16.82	14.73	13.12	12.10	11.58	11.35	2.63	85.0	
SCR 0951-7224	09 51 44.73	-72 24 20.2	0.212	324.1	18.56	16.11	16.04	14.61	13.96	13.68	1.50	[303.2]	d
SCR 0952-6542	09 52 09.94	-65 42 57.1	0.257	284.4	18.19	16.03	13.45	12.47	11.91	11.60	3.56	64.3	
SCR 0956-8518	09 56 14.01	-85 18 01.5	0.478	319.2	17.10	15.13	13.97	12.49	11.94	11.73	2.64	100.7	
SCR 0956-6724	09 56 31.12	-67 24 58.4	0.353	310.1	18.15	15.91	13.40	11.77	11.18	10.82	4.14	32.3	
SCR 0957-4716	09 57 21.32	-47 16 54.2	0.251	293.4	17.98	15.26	13.11	12.10	11.58	11.27	3.17	58.3	
SCR 1002-4912	10 02 08.06	-49 12 49.1	0.257	265.6	15.09	13.08	11.48	10.94	10.36	10.12	2.14	59.0	
SCR 1005-4943	10 05 47.90	-49 43 21.3	0.289	297.6	16.01	14.37	12.83	12.06	11.49	11.26	2.31	99.7	
SCR 1007-5210	10 07 24.94	-52 10 09.2	0.206	154.5	16.76	15.29	13.82	12.61	12.00	11.79	2.68	111.6	
SCR 1007-8033	10 07 56.03	-80 33 15.4	0.181	332.7	17.24	15.41	13.85	12.63	12.11	11.85	2.78	104.7	
SCR 1011-8106	10 11 12.38	-81 06 41.9	0.450	112.4	16.54	14.50	12.53	10.81	10.24	9.92	3.69	26.6	
SCR 1012-4801	10 12 30.58	-48 01 55.3	0.208	312.1	17.37	14.90	12.19	11.35	10.80	10.51	3.55	38.4	
SCR 1024-6424	10 24 20.04	-64 24 43.2	0.283	312.4	18.45	16.40	14.45	12.81	12.19	11.96	3.60	70.9	
SCR 1027-8148	10 27 17.56	-81 48 14.7	0.222	271.9	17.79	15.72	13.81	12.12	11.58	11.31	3.59	53.0	
SCR 1028-7920	10 28 31.61	-79 20 47.6	0.212	291.2	16.74	14.75	12.91	11.29	10.73	10.44	3.46	38.1	
SCR 1029-6251	10 29 48.04	-62 51 43.8	0.367	265.0	14.49	12.60	11.31	10.29	9.73	9.50	2.31	42.2	
SCR 1031-6428	10 31 34.68	-64 28 21.1	0.255	280.0	16.18	14.23	12.88	11.45	10.87	10.60	2.78	55.5	
SCR 1036-8236	10 36 16.17	-82 36 18.9	0.180	298.6	17.25	15.24	12.80	11.43	10.88	10.58	3.81	35.9	
SCR 1036-6702	10 36 26.85	-67 02 45.3	0.251	035.2	16.75	14.87	13.45	12.22	11.71	11.44	2.65	90.5	
SCR 1036-8034	10 36 10.10	-80 34 49.0	0.201	308.6	18.34	16.36	15.18	14.05	13.45	13.23	2.31	227.7	
SCR 1037-8057	10 37 06.03	-80 57 19.5	0.234	287.4	16.64	14.79	13.12	11.76	11.20	10.94	3.04	60.6	
SCR 1037-7404	10 37 38.37	-74 04 22.8	0.205	304.8	17.55	15.72	13.93	12.07	11.46	11.18	3.65	50.0	
SCR 1040-6231	10 40 08.41	-62 31 30.8	0.250	321.4	18.36	14.73	13.18	11.78	11.19	10.87	2.95	43.1	
SCR 1041-6349	10 41 08.54	-63 49 44.2	0.313	225.1	16.40	14.58	12.97	11.92	11.54	11.12	2.67	81.0	
SCR 1046-5141	10 46 31.94	-51 41 46.7	0.365	304.2	15.68	13.61	11.63	10.63	10.04	9.73	2.98	34.0	
SCR 1047-4815	10 47 49.08	-48 15 10.9	0.215	153.9	18.04	16.03	15.03	14.01	13.41	13.29	2.02	[262.1]	d

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1050-6825	10 50 48.73	-68 25 12.8	0.209	301.6	18.04	16.23	15.62	14.58	13.90	13.69	1.65	[284.0]	d
SCR 1050-6247	10 50 21.42	-62 47 35.9	0.296	293.3	16.49	15.38	13.06	12.23	11.67	11.32	3.15	83.4	
SCR 1053-6926	10 53 08.35	-69 26 31.7	0.212	323.0	17.21	14.78	12.63	11.31	10.65	10.36	3.46	33.2	
SCR 1054-5159	10 54 16.38	-51 59 03.5	0.408	306.1	17.31	15.37	13.37	11.71	11.10	10.87	3.66	42.7	
SCR 1054-8135	10 54 00.77	-81 35 33.6	0.234	307.1	16.05	13.98	12.29	11.31	10.69	10.50	2.67	55.7	
SCR 1055-8130	10 55 03.61	-81 30 59.8	0.303	002.4	15.98	14.31	12.69	11.36	10.87	10.57	2.95	56.1	
SCR 1056-7555	10 56 15.85	-75 55 06.1	0.285	305.2	17.27	15.46	13.70	11.75	11.24	10.97	3.71	46.0	
SCR 1056-6945	10 56 30.83	-69 45 40.0	0.220	261.1	12.32	10.74	9.89	9.28	8.59	8.56	1.45	32.2	
SCR 1100-4959	11 00 13.51	-49 59 07.0	0.194	271.3	17.29	15.19	13.58	12.33	11.77	11.51	2.86	80.5	
SCR 1100-5233	11 00 28.84	-52 33 34.4	0.198	279.9	16.53	14.46	12.53	11.22	10.68	10.41	3.24	41.8	
SCR 1101-6314	11 01 54.40	-63 14 44.7	0.293	279.8	15.41	13.19	11.28	10.83	10.25	10.01	2.36	50.0	
SCR 1101-6342	11 01 14.36	-63 42 55.5	0.275	296.6	17.10	14.92	13.22	11.65	11.04	10.82	3.27	47.0	
SCR 1104-4836	11 04 45.92	-48 36 03.0	0.377	300.7	16.82	14.61	12.67	11.55	10.98	10.76	3.06	52.0	
SCR 1104-7856B	11 04 39.95	-78 56 21.5	0.203	283.1	17.86	16.32	14.84	13.06	12.46	12.18	3.26	101.1	a
SCR 1104-8352	11 04 50.97	-83 52 24.6	0.440	256.7	···	13.47	12.23	10.53	9.95	9.67	2.94	29.1	
SCR 1105-4836	11 05 07.96	-48 36 18.6	0.225	273.0	12.21	10.79	10.00	9.79	9.28	9.19	1.00	45.3	
SCR 1106-6514	11 06 44.40	-65 14 26.7	0.203	310.8	18.62	16.46	15.20	13.40	12.70	12.44	3.06	105.6	
SCR 1107-7916	11 07 42.08	-79 16 26.9	0.266	290.1	16.25	14.48	13.30	11.71	11.15	10.91	2.77	67.5	
SCR 1108-6513	11 08 03.62	-65 13 12.7	0.398	129.9	17.95	16.22	···	12.11	11.50	11.21	4.11	40.1	
SCR 1108-4933	11 08 00.77	-49 33 40.6	0.181	308.6	18.43	16.33	14.70	13.14	12.54	12.33	3.20	99.7	
SCR 1109-6510	11 09 11.27	-65 10 07.1	0.252	147.7	15.21	12.80	11.54	10.22	9.65	9.42	2.58	32.3	
SCR 1110-4737	11 10 22.85	-47 37 07.7	0.283	272.0	12.46	11.03	10.47	10.00	9.53	9.46	1.04	45.0	
SCR 1110-7327	11 10 49.85	-73 27 27.2	0.199	053.9	16.50	14.87	13.09	11.33	10.74	10.46	3.54	39.9	
SCR 1111-7845	11 11 33.08	-78 45 45.8	0.201	297.7	15.91	14.19	13.30	11.56	11.04	10.81	2.62	69.1	
SCR 1115-7806	11 15 06.51	-78 06 55.3	0.269	294.6	17.86	16.24	15.49	13.60	12.86	12.71	2.64	149.1	
SCR 1117-7226B	11 17 36.66	-72 26 13.5	0.188	275.8	17.98	15.99	13.94	12.66	11.98	11.73	3.33	72.2	a
SCR 1117-5023	11 17 58.61	-50 23 35.1	0.333	302.5	17.57	14.94	13.02	11.78	11.22	10.95	3.16	49.3	
SCR 1118-6400	11 18 36.85	-64 00 28.6	0.252	274.5	16.77	14.84	13.21	11.60	11.14	10.84	3.24	52.8	
SCR 1118-5143	11 18 15.05	-51 43 22.2	0.253	264.2	17.04	15.07	13.58	12.26	11.67	11.47	2.82	82.8	
SCR 1118-4721	11 18 27.20	-47 21 57.0	0.322	275.1	16.37	15.62	15.18	14.45	14.37	14.35	1.16	442.5	
SCR 1120-8408	11 20 20.10	-84 08 01.6	0.304	274.0	16.76	15.03	13.44	11.84	11.37	11.07	3.19	62.4	
SCR 1121-8057	11 21 27.90	-80 57 03.2	0.247	295.4	15.52	13.92	11.92	10.48	9.84	9.60	3.43	28.4	
SCR 1121-5742	11 21 52.74	-57 42 13.9	0.191	290.9	15.21	12.47	10.98	10.29	9.71	9.47	2.19	37.7	
SCR 1121-7111	11 21 17.26	-71 11 40.6	0.196	088.8	17.91	15.89	13.84	13.02	12.49	12.29	2.87	123.0	
SCR 1123-7459	11 23 12.91	-74 59 46.5	0.309	264.6	17.04	15.24	13.46	11.56	10.94	10.69	3.67	39.8	
SCR 1123-4819	11 23 03.78	-48 19 51.3	0.189	279.8	18.10	16.06	13.91	13.33	12.78	12.54	2.74	145.5	
SCR 1124-7602	11 24 45.14	-76 02 34.3	0.220	318.8	17.79	16.19	15.28	13.79	13.17	12.98	2.40	204.6	
SCR 1125-7349	11 25 03.17	-73 49 17.9	0.292	249.3	17.90	15.62	14.04	11.84	11.27	10.99	3.79	39.9	
SCR 1126-7655	11 26 09.16	-76 55 09.6	0.185	294.9	17.54	15.80	14.39	12.54	11.96	11.71	3.26	78.7	
SCR 1126-4706	11 26 33.96	-47 06 38.9	0.191	192.8	18.30	16.21	14.19	12.61	12.04	11.79	3.60	65.9	
SCR 1127-4857	11 27 02.85	-48 57 36.6	0.194	248.4	18.74	16.46	13.68	12.57	11.94	11.67	3.89	56.3	
SCR 1127-7816	11 27 16.78	-78 16 40.1	0.196	192.4	17.97	15.93	13.44	11.69	11.14	10.86	4.24	33.3	
SCR 1127-4807	11 27 22.29	-48 07 57.8	0.200	103.8	15.83	13.78	11.68	11.23	10.64	10.32	2.55	55.0	
SCR 1127-4808	11 27 36.51	-48 08 55.9	0.183	260.2	17.03	14.66	12.65	12.04	11.46	11.20	2.63	75.6	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1129-4711	11 29 42.16	-47 11 22.7	0.219	246.9	17.10	15.11	13.04	11.82	11.27	11.03	3.29	56.0	
SCR 1129-7532	11 29 32.31	-75 32 22.1	0.336	089.1	16.65	14.88	13.07	11.42	10.93	10.64	3.46	44.8	
SCR 1130-7525	11 30 06.81	-75 25 52.5	0.218	101.0	16.79	15.22	13.69	12.00	11.48	11.18	3.22	65.9	
SCR 1130-8122	11 30 39.01	-81 22 57.3	0.247	296.5	18.03	16.23	14.13	12.80	12.30	12.06	3.43	89.2	
SCR 1130-4852	11 30 21.78	-48 52 55.9	0.183	286.1	17.49	15.38	12.99	12.24	11.64	11.39	3.14	70.6	
SCR 1131-7508	11 31 51.40	-75 08 54.9	0.214	298.3	17.80	16.34	14.80	12.85	12.28	12.00	3.49	86.6	
SCR 1133-5249	11 33 40.91	-52 49 54.6	0.322	267.2	17.53	15.55	12.71	11.43	10.95	10.68	4.11	35.5	
SCR 1134-5033	11 34 29.84	-50 33 40.1	0.298	257.7	15.59	13.27	10.53	10.44	9.91	9.60	2.82	34.4	
SCR 1135-5605	11 35 41.91	-56 05 17.7	0.297	273.4	17.56	15.53	13.70	12.68	12.14	11.93	2.85	102.5	
SCR 1135-8701	11 35 54.23	-87 01 40.4	0.255	267.0	14.82	12.93	11.93	10.78	10.15	9.93	2.14	53.2	
SCR 1137-5157	11 37 38.37	-51 57 32.3	0.203	246.9	15.20	12.86	10.95	10.77	10.19	9.95	2.10	52.3	
SCR 1138-5359	11 38 07.76	-53 59 10.1	0.302	295.7	15.92	13.66	11.51	11.17	10.58	10.33	2.49	54.9	
SCR 1140-5447	11 40 15.98	-54 47 13.9	0.196	332.8	14.31	12.46	11.56	11.49	10.93	10.86	0.98	98.8	
SCR 1140-5510	11 40 37.74	-55 10 34.9	0.251	253.1	16.47	14.32	11.79	11.01	10.47	10.22	3.31	38.9	
SCR 1140-6943	11 40 25.94	-69 43 45.8	0.280	269.3	17.19	15.54	13.40	11.93	11.35	11.12	3.62	53.5	
SCR 1141-8337	11 41 07.63	-83 37 38.0	0.193	289.7	13.05	11.56	11.08	9.75	9.24	9.06	1.81	31.9	
SCR 1143-7526	11 43 09.88	-75 26 00.5	0.186	108.5	16.18	14.48	13.14	11.08	10.50	10.26	3.40	38.3	
SCR 1143-7704	11 43 07.94	-77 04 52.3	0.229	001.4	16.60	15.01	14.12	12.50	12.00	11.76	2.51	114.7	
SCR 1145-5412	11 45 52.06	-54 12 56.1	0.192	181.3	12.14	10.63	9.82	10.03	9.52	9.37	0.60	57.1	
SCR 1146-4841	11 46 03.48	-48 41 37.6	0.279	166.0	16.32	13.83	11.36	10.79	10.21	9.95	3.05	35.9	
SCR 1147-5504	11 47 52.49	-55 04 11.9	0.192	011.3	14.96	12.23	10.25	9.67	9.08	8.81	2.56	24.1	
SCR 1148-7639	11 48 03.27	-76 39 12.5	0.230	275.8	18.07	16.24	13.92	12.26	11.65	11.40	3.98	49.0	
SCR 1149-5629	11 49 43.94	-56 29 27.8	0.228	330.7	17.73	15.79	14.32	12.98	12.46	12.20	2.81	118.2	
SCR 1151-5700	11 51 31.85	-57 00 23.5	0.226	284.5	13.58	11.46	10.41	10.20	9.58	9.44	1.26	50.3	
SCR 1152-7947	11 52 34.57	-79 47 23.5	0.252	268.6	17.64	15.82	13.81	11.96	11.38	11.10	3.86	44.8	
SCR 1153-5430	11 53 22.59	-54 30 07.5	0.304	255.7	15.39	13.16	11.01	10.21	9.58	9.28	2.95	27.4	
SCR 1155-7904	11 54 59.92	-79 04 12.9	0.401	297.3	18.17	16.23	14.99	13.29	12.65	12.43	2.94	119.5	
SCR 1156-6922	11 56 51.45	-69 22 52.3	0.201	292.5	12.71	10.34	9.63	9.64	9.07	8.88	0.70	44.1	
SCR 1158-4934	11 58 59.25	-49 34 13.4	0.252	228.2	15.89	14.14	12.47	12.01	11.37	11.12	2.13	96.5	
SCR 1158-6950	11 58 58.09	-69 50 33.9	0.297	270.7	15.61	13.51	11.79	11.21	10.57	10.42	2.30	62.8	
SCR 1200-5659	12 00 04.61	-56 59 40.0	0.206	292.7	15.35	13.34	11.80	11.38	10.86	10.60	1.96	78.6	
SCR 1202-5449	12 02 18.96	-54 49 29.1	0.209	235.3	17.48	15.19	13.05	11.98	11.47	11.24	3.22	61.7	
SCR 1202-4723	12 02 28.02	-47 23 56.0	0.319	213.2	16.11	13.82	11.69	10.76	10.17	9.94	3.06	35.4	
SCR 1203-8559	12 03 15.97	-85 59 25.8	0.182	301.1	16.55	14.65	13.39	12.47	11.85	11.65	2.18	117.8	
SCR 1203-6836	12 03 35.63	-68 36 30.4	0.207	274.5	12.33	11.10	10.63	10.72	10.36	10.33	0.38	···	
SCR 1204-5148	12 04 38.61	-51 48 15.6	0.208	279.8	15.89	13.76	11.89	11.46	10.88	10.63	2.30	69.3	
SCR 1204-4929	12 04 14.79	-49 29 28.2	0.221	307.9	16.32	14.26	13.17	12.85	12.27	12.05	1.41	[165.2]	d
SCR 1205-4916	12 05 26.07	-49 16 41.5	0.185	096.4	16.50	14.34	12.46	11.92	11.32	11.09	2.42	81.2	
SCR 1207-5530	12 07 32.54	-55 30 56.0	0.255	082.0	14.85	12.71	11.94	11.49	10.94	10.72	1.23	92.4	
SCR 1208-5436	12 08 49.12	-54 36 16.8	0.203	295.6	16.64	14.40	12.63	11.97	11.35	11.22	2.44	84.6	
SCR 1208-5737	12 08 49.92	-57 37 23.9	0.186	266.4	15.67	14.42	13.89	13.29	12.76	12.73	1.13	[206.2]	d
SCR 1208-7037	12 08 22.85	-70 37 35.5	0.373	263.5	16.82	15.12	12.60	11.33	10.73	10.48	3.79	37.2	
SCR 1209-5002	12 09 16.45	-50 02 49.1	0.350	264.4	14.67	12.65	11.40	11.29	10.70	10.52	1.36	[81.8]	d
SCR 1211-5712	12 11 22.76	-57 12 24.3	0.281	253.8	17.83	15.63	13.80	12.78	12.26	12.04	2.85	104.5	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1211-7328	12 11 48.47	-73 28 28.8	0.184	280.4	17.10	15.46	13.50	12.01	11.47	11.20	3.45	60.1	
SCR 1211-6849	12 11 39.71	-68 49 30.2	0.489	293.4	16.90	14.73	12.42	11.38	10.90	10.62	3.35	45.3	
SCR 1212-6736	12 12 40.09	-67 36 06.8	0.196	291.2	16.52	14.48	12.53	11.91	11.30	11.07	2.57	77.0	
SCR 1213-4820	12 13 07.13	-48 20 07.9	0.480	268.0	16.51	14.24	11.95	11.24	10.72	10.45	3.00	47.9	
SCR 1215-8218	12 15 11.40	-82 18 29.8	0.195	261.7	15.73	13.97	12.10	11.10	10.56	10.34	2.86	51.9	
SCR 1216-5622	12 16 52.72	-56 22 24.6	0.208	251.2	15.84	14.02	12.52	11.84	11.21	11.02	2.18	89.9	
SCR 1217-5437	12 17 32.05	-54 37 31.6	0.237	070.4	17.80	15.74	14.48	13.55	13.03	12.81	2.19	199.4	
SCR 1217-5530	12 17 42.94	-55 30 30.8	0.189	290.2	18.17	16.49	15.05	14.04	13.50	13.25	2.44	235.2	
SCR 1217-5545	12 17 50.67	-55 45 39.6	0.196	290.6	17.40	15.46	14.38	13.49	12.83	12.70	1.97	202.7	
SCR 1217-7810	12 17 26.93	-78 10 45.9	0.212	056.6	17.55	15.69	13.15	11.20	10.64	10.36	4.49	24.5	
SCR 1218-5345	12 18 52.34	-53 45 08.9	0.225	288.9	14.51	13.05	12.18	12.06	11.57	11.44	0.99	131.0	
SCR 1218-4950	12 18 14.09	-49 50 03.1	0.198	290.0	16.70	14.72	12.86	11.42	10.80	10.54	3.30	42.7	
SCR 1218-5132	12 18 01.06	-51 32 18.4	0.204	264.3	16.48	14.54	13.20	12.11	11.50	11.30	2.43	90.5	
SCR 1220-5346	12 20 17.18	-53 46 00.2	0.254	272.1	16.14	15.60	13.97	12.93	12.40	12.15	2.67	115.0	
SCR 1220-8302	12 20 03.71	-83 02 29.2	0.243	244.2	17.03	14.94	12.80	10.97	10.39	10.07	3.96	25.0	
SCR 1220-4814	12 20 27.79	-48 14 42.5	0.200	128.3	18.06	16.07	14.36	12.81	12.32	12.07	3.26	90.6	
SCR 1221-5723	12 21 27.87	-57 23 11.3	0.197	273.8	15.84	13.89	11.52	10.65	9.99	9.71	3.25	31.0	
SCR 1221-5516	12 21 16.08	-55 16 26.8	0.264	256.8	16.90	14.56	13.66	12.72	12.22	11.97	1.84	145.5	
SCR 1221-5237	12 21 45.47	-52 37 25.4	0.186	276.2	18.66	16.46	14.63	13.11	12.56	12.30	3.36	91.0	
SCR 1221-7609	12 21 39.93	-76 09 51.4	0.350	264.7	15.91	14.03	12.24	10.66	10.12	9.85	3.37	31.3	
SCR 1221-5722	12 21 28.22	-57 22 56.0	0.194	274.1	17.21	15.05	12.33	11.23	10.62	10.31	3.82	31.4	
SCR 1222-4937	12 22 44.23	-49 37 12.4	0.190	257.8	16.93	15.15	12.91	12.15	11.62	11.36	3.01	80.1	
SCR 1223-7043	12 23 12.78	-70 43 56.6	0.264	288.4	18.24	16.04	14.86	13.22	12.59	12.34	2.82	113.4	
SCR 1224-4708	12 24 31.01	-47 08 06.6	0.357	186.6	17.36	15.59	13.56	12.40	11.95	11.66	3.20	84.4	
SCR 1224-5339	12 24 24.44	-53 39 08.8	0.189	251.9	16.93	14.78	12.30	10.51	9.93	9.65	4.27	18.1	
SCR 1224-5027	12 24 54.47	-50 27 22.9	0.187	273.3	17.73	15.77	14.23	12.80	12.27	12.03	2.98	100.9	
SCR 1224-5341	12 24 08.47	-53 41 47.6	0.379	268.2	17.72	15.76	14.75	13.07	12.56	12.37	2.69	133.5	
SCR 1224-8205	12 24 39.81	-82 05 53.3	0.273	183.2	16.42	14.37	12.22	10.69	10.06	9.81	3.69	25.4	
SCR 1225-5323	12 25 14.20	-53 23 54.0	0.265	277.2	17.63	15.68	13.77	12.59	12.04	11.80	3.10	87.6	
SCR 1227-5155	12 27 24.09	-51 55 23.0	0.217	279.8	16.92	15.09	13.05	11.88	11.33	11.11	3.21	62.7	
SCR 1229-5738A	12 29 04.89	-57 38 41.3	0.197	256.6	15.36	13.57	12.86	11.74	11.06	10.92	1.84	92.7	a
SCR 1229-5738B	12 29 04.12	-57 38 50.1	0.189	262.7	17.59	15.53	14.08	12.79	12.25	12.03	2.74	109.8	a c
SCR 1231-4803	12 31 28.42	-48 03 35.6	0.260	233.7	18.31	16.25	13.99	12.12	11.50	11.19	4.14	38.8	
SCR 1231-7020	12 31 45.57	-70 20 45.6	0.237	306.1	16.73	14.40	12.86	11.84	11.27	11.00	2.56	69.5	
SCR 1232-7014	12 32 25.63	-70 14 29.4	0.237	282.0	15.58	13.58	11.45	10.46	9.81	9.59	3.13	30.6	
SCR 1233-5401	12 33 04.31	-54 01 13.3	0.188	127.5	13.96	12.08	11.53	11.13	10.61	10.44	0.95	71.4	
SCR 1233-7722	12 33 37.98	-77 22 19.9	0.226	181.5	17.78	16.08	14.37	12.17	11.66	11.37	3.91	52.0	
SCR 1236-4713	12 36 25.90	-47 13 14.4	0.256	270.0	16.96	14.97	13.15	12.19	11.64	11.40	2.78	83.3	
SCR 1237-4940	12 37 07.09	-49 40 51.2	0.206	255.1	16.90	14.97	13.63	12.73	12.15	11.93	2.24	131.9	
SCR 1238-5159	12 38 40.91	-51 59 18.3	0.198	097.7	16.26	14.21	12.24	11.98	11.46	11.16	2.23	92.4	
SCR 1238-5327	12 38 13.72	-53 27 54.5	0.361	260.5	15.13	12.86	11.36	10.63	10.04	9.80	2.23	46.6	
SCR 1239-4759	12 39 51.37	-47 59 07.7	0.401	268.5	17.26	15.25	12.92	11.57	11.08	10.79	3.68	42.7	
SCR 1240-4904	12 40 56.79	-49 04 01.9	0.199	269.4	18.30	16.22	14.35	12.95	12.45	12.21	3.27	95.4	
SCR 1240-8209	12 40 50.93	-82 09 03.4	0.486	272.4	16.18	14.55	12.29	10.85	10.19	9.93	3.70	29.2	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1240-8116	12 40 55.99	-81 16 30.9	0.492	279.8	15.15	13.11	11.25	9.73	9.16	8.89	3.38	19.1	
SCR 1241-4717	12 41 33.15	-47 17 05.8	0.428	257.9	16.51	14.38	13.42	12.77	12.21	12.05	1.61	166.2	
SCR 1241-5627	12 41 12.72	-56 27 30.6	0.279	251.6	17.36	15.64	13.85	12.33	11.75	11.44	3.30	68.4	
SCR 1242-4810	12 42 14.00	-48 10 50.3	0.268	249.7	17.76	15.65	13.21	11.61	11.08	10.77	4.04	34.5	
SCR 1244-7449	12 44 30.38	-74 49 06.9	0.229	267.4	18.15	16.37	15.57	14.45	13.80	13.65	1.92	[321.0]	d
SCR 1245-5025	12 45 52.20	-50 25 07.3	0.187	136.9	18.39	16.41	14.45	13.03	12.54	12.29	3.37	97.0	
SCR 1245-5506	12 45 52.53	-55 06 50.2	0.412	107.0	14.84	12.82	10.34	8.99	8.42	8.12	3.83	11.4	
SCR 1246-5328B	12 46 03.73	-53 28 21.8	0.183	025.3	16.05	14.32	12.73	11.81	11.27	11.02	2.51	82.1	a
SCR 1246-5328A	12 46 05.64	-53 28 31.2	0.188	029.0	14.06	11.94	10.97	10.15	9.54	9.36	1.80	45.3	a
SCR 1247-7712	12 47 24.98	-77 12 29.4	0.255	280.0	17.77	16.34	14.64	12.65	12.07	11.81	3.69	73.4	
SCR 1247-5524	12 47 22.38	-55 24 50.2	0.367	269.8	17.32	15.70	14.43	12.88	12.33	12.13	2.83	120.2	
SCR 1250-5734	12 50 18.48	-57 34 22.5	0.215	258.6	17.26	15.19	13.84	12.49	11.91	11.70	2.70	94.2	
SCR 1252-4956	12 52 59.55	-49 56 51.5	0.204	253.3	18.35	16.35	14.24	12.68	12.10	11.80	3.67	64.8	
SCR 1254-5301	12 54 35.61	-53 01 33.2	0.193	283.0	17.82	15.96	14.43	12.67	12.15	11.94	3.29	86.0	
SCR 1254-5609	12 54 17.22	-56 09 51.6	0.233	259.7	18.17	16.29	14.29	12.36	11.82	11.61	3.93	55.3	
SCR 1256-5410	12 56 01.97	-54 10 07.5	0.207	271.3	18.20	16.24	13.98	11.90	11.32	11.08	4.34	35.2	
SCR 1257-4701	12 57 54.01	-47 01 11.4	0.191	287.9	17.37	15.54	13.66	12.76	12.16	11.96	2.79	110.8	
SCR 1257-5554A	12 57 32.85	-55 54 48.9	0.410	290.1	14.83	13.46	11.45	10.48	9.89	9.66	2.98	39.1	a
SCR 1257-5554B	12 57 32.85	-55 54 48.9	0.413	293.3	15.05	13.89	11.97	...	...	...	...	...	a b c e
SCR 1257-5655	12 57 32.84	-56 55 42.7	0.311	277.2	17.61	15.36	13.42	12.20	11.66	11.40	3.16	66.0	
SCR 1258-4850	12 58 34.22	-48 50 49.4	0.184	267.0	16.78	14.86	13.36	12.30	11.75	11.51	2.56	96.1	
SCR 1259-5611	12 59 16.36	-56 11 09.4	0.301	272.1	18.08	16.05	13.71	12.26	11.60	11.35	3.79	49.7	
SCR 1300-6229	13 00 51.87	-62 29 29.6	0.214	241.9	16.29	14.79	13.60	11.63	11.00	10.79	3.16	56.0	
SCR 1301-6009	13 01 07.60	-60 09 14.1	0.269	242.6	12.75	11.28	11.23	10.13	9.78	9.73	1.15	45.4	
SCR 1301-8212	13 01 55.89	-82 12 19.1	0.221	239.6	16.54	14.61	13.22	12.12	11.51	11.30	2.49	88.2	
SCR 1302-7806	13 02 18.58	-78 06 03.0	0.210	108.1	17.44	15.84	14.05	12.31	11.75	11.50	3.53	66.0	
SCR 1304-5259	13 04 30.79	-52 59 08.6	0.244	096.6	16.97	15.31	13.49	12.32	11.83	11.60	2.99	90.6	
SCR 1304-5730	13 04 39.66	-57 30 21.6	0.185	276.4	18.45	16.39	15.71	14.48	13.86	13.79	1.91	[337.3]	d
SCR 1305-7554	13 05 48.78	-75 54 49.7	0.253	193.2	15.25	13.47	12.21	11.40	10.82	10.60	2.07	77.3	
SCR 1306-7445	13 06 54.79	-74 45 51.3	0.221	264.8	17.73	15.73	13.71	12.72	12.16	11.88	3.01	93.3	
SCR 1308-5421	13 08 44.23	-54 21 38.9	0.204	284.5	17.98	16.09	14.56	13.39	12.85	12.64	2.70	154.3	
SCR 1311-4756	13 11 41.44	-47 56 40.4	0.227	232.1	18.24	16.24	14.33	12.85	12.33	12.01	3.39	82.0	
SCR 1315-5015	13 15 43.83	-50 15 20.0	0.207	270.0	17.54	15.70	14.32	12.79	12.23	11.96	2.92	101.1	
SCR 1315-5453	13 15 49.91	-54 53 27.6	0.204	258.7	11.50	10.21	9.79	9.55	9.09	9.00	0.66	37.7	
SCR 1315-7240	13 15 35.50	-72 40 58.4	0.203	217.4	17.90	16.04	13.89	12.57	12.00	11.73	3.46	72.7	
SCR 1318-5104	13 18 33.49	-51 04 58.6	0.200	235.6	18.30	16.38	14.50	12.79	12.25	12.01	3.59	76.3	
SCR 1319-6200	13 19 04.51	-62 00 19.0	0.286	017.8	18.21	16.41	15.63	14.13	13.49	13.30	2.28	[239.2]	d
SCR 1319-7537	13 19 20.06	-75 37 27.4	0.251	227.6	17.77	15.24	13.64	12.75	12.19	11.87	2.49	103.6	
SCR 1319-5952	13 19 45.12	-59 52 30.1	0.232	267.1	18.09	15.98	14.32	12.63	12.04	11.82	3.35	73.2	
SCR 1320-7542	13 20 47.57	-75 42 51.0	0.434	249.3	17.87	15.82	14.71	13.93	13.32	13.26	1.89	[270.8]	d
SCR 1321-5736	13 21 43.62	-57 36 52.3	0.219	243.0	14.31	12.92	11.96	11.35	10.78	10.61	1.57	81.8	
SCR 1322-8121	13 22 15.45	-81 21 06.6	0.182	258.3	15.51	13.80	12.64	11.13	10.57	10.30	2.67	53.4	
SCR 1323-5504	13 23 24.46	-55 04 15.6	0.370	218.9	15.89	13.83	12.60	11.72	11.14	10.95	2.11	86.1	
SCR 1324-5114	13 24 25.01	-51 14 00.5	0.184	309.9	17.62	15.18	14.29	13.37	12.80	12.64	1.81	196.8	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1324-6036	13 24 25.68	-60 36 25.0	0.315	273.8	16.93	14.48	13.66	12.72	12.12	11.90	1.75	[139.6]	d
SCR 1326-7554	13 26 02.50	-75 54 15.1	0.186	262.4	18.25	16.42	15.56	14.73	14.06	13.93	1.69	[374.8]	d
SCR 1328-5317	13 28 44.53	-53 17 52.0	0.256	242.5	17.49	15.61	13.75	12.18	11.62	11.34	3.44	60.1	
SCR 1329-6014	13 29 14.02	-60 14 25.6	0.240	276.0	15.82	14.27	13.53	12.50	11.91	11.77	1.77	128.2	
SCR 1331-5138	13 31 06.81	-51 38 02.5	0.484	294.9	16.06	14.10	11.94	10.98	10.50	10.26	3.12	44.4	
SCR 1332-5517	13 32 04.27	-55 17 04.6	0.185	058.5	16.16	14.43	12.66	11.23	10.64	10.41	3.20	45.1	
SCR 1332-5422	13 32 06.31	-54 22 22.8	0.243	231.3	15.92	14.35	12.58	11.28	10.68	10.48	3.08	51.4	
SCR 1333-5055	13 33 37.80	-50 55 28.0	0.203	250.8	17.04	15.36	14.70	13.89	13.30	13.09	1.47	[241.3]	d
SCR 1335-6115	13 35 34.24	-61 15 50.9	0.185	253.5	17.49	15.74	13.66	12.29	11.69	11.44	3.45	64.9	
SCR 1336-5701	13 36 30.28	-57 01 07.8	0.294	265.9	17.39	15.69	14.04	12.17	11.62	11.40	3.52	62.1	
SCR 1338-5356	13 38 34.08	-53 56 07.5	0.280	268.6	17.82	16.15	15.26	14.06	13.52	13.33	2.09	[271.2]	d
SCR 1338-5518	13 38 34.21	-55 18 35.1	0.200	243.9	17.88	16.41	14.63	12.97	12.41	12.20	3.44	99.0	
SCR 1339-5914	13 39 06.87	-59 14 17.7	0.246	261.6	16.63	15.48	14.78	13.52	13.01	12.95	1.97	[210.2]	d
SCR 1339-7101	13 39 02.35	-71 01 54.3	0.231	143.6	15.17	12.95	11.64	10.88	10.29	10.09	2.07	57.2	
SCR 1339-5507	13 39 50.37	-55 07 54.8	0.354	249.6	16.92	15.34	13.60	11.92	11.46	11.18	3.42	62.0	
SCR 1339-5119	13 39 22.57	-51 19 50.6	0.391	232.5	18.32	16.41	15.62	14.54	14.16	13.96	1.87	[381.8]	d
SCR 1340-7155	13 40 59.99	-71 55 13.4	0.193	254.3	16.75	14.99	12.84	12.00	11.44	11.17	2.99	72.7	
SCR 1341-5621	13 41 08.88	-56 21 04.1	0.204	216.2	16.25	14.39	13.18	11.75	11.18	10.97	2.64	72.0	
SCR 1341-6153	13 41 35.67	-61 53 56.6	0.183	254.0	16.03	14.09	12.51	11.05	10.43	10.21	3.04	41.4	
SCR 1342-5714	13 42 32.13	-57 14 49.5	0.211	224.6	11.83	10.47	9.67	9.59	9.15	9.03	0.89	44.1	
SCR 1343-6938	13 43 00.01	-69 38 21.2	0.266	257.3	16.85	15.02	12.41	11.64	11.08	10.82	3.38	52.9	
SCR 1343-5210	13 43 56.05	-52 10 56.4	0.355	280.2	17.77	16.00	15.37	13.93	13.44	13.36	2.06	[253.4]	d
SCR 1344-4948	13 44 14.53	-49 48 33.9	0.186	283.2	17.99	15.72	13.66	12.42	11.82	11.60	3.30	67.3	
SCR 1346-5408	13 46 02.71	-54 08 14.4	0.185	230.6	16.83	15.33	14.31	12.88	12.29	12.06	2.45	134.7	
SCR 1346-7834	13 46 00.41	-78 34 22.3	0.224	022.1	16.71	14.98	13.12	12.16	11.62	11.41	2.82	87.3	
SCR 1347-7610	13 47 56.80	-76 10 20.0	0.194	089.7	12.40	10.27	8.88	8.62	8.01	7.77	1.65	22.5	
SCR 1348-7052	13 48 15.82	-70 52 13.9	0.210	211.0	13.63	11.46	11.31	10.76	10.17	10.05	0.69	56.2	
SCR 1348-5536B	13 48 27.46	-55 36 22.8	0.204	236.9	17.07	14.52	13.40	11.92	11.27	11.04	2.61	63.8	a
SCR 1349-4829	13 49 16.37	-48 29 36.6	0.195	165.7	17.97	16.05	14.20	12.89	12.37	12.14	3.16	100.3	
SCR 1349-5109	13 49 44.45	-51 09 47.2	0.236	245.7	16.84	14.88	13.05	11.67	11.06	10.85	3.21	52.0	
SCR 1352-7100	13 52 59.82	-71 00 44.6	0.342	251.8	18.12	16.15	13.99	12.43	11.87	11.66	3.72	61.4	
SCR 1353-6756	13 53 45.15	-67 56 00.5	0.182	248.2	16.73	14.74	12.52	11.67	11.12	10.86	3.07	58.2	
SCR 1354-5538	13 54 53.29	-55 38 11.6	0.188	224.1	11.53	10.45	10.16	9.83	9.48	9.39	0.62	44.8	
SCR 1355-5623	13 55 15.66	-56 23 21.0	0.329	254.3	16.88	15.02	12.47	11.13	10.53	10.27	3.89	31.0	
SCR 1355-4707	13 55 40.13	-47 07 37.4	0.197	239.6	15.89	14.04	11.79	11.30	10.69	10.49	2.74	58.1	
SCR 1355-5537	13 55 02.93	-55 37 40.0	0.233	255.8	16.60	14.93	13.20	11.66	11.11	10.88	3.28	55.2	
SCR 1358-5615	13 58 16.45	-56 15 05.1	0.210	300.9	17.86	16.10	14.16	12.56	12.03	11.76	3.55	72.3	
SCR 1358-5459	13 58 13.74	-54 59 10.7	0.214	245.7	16.82	14.53	13.62	12.39	11.78	11.63	2.13	110.0	
SCR 1358-7428	13 58 06.48	-74 28 24.8	0.389	259.2	16.49	13.51	13.31	12.21	11.61	11.41	1.30	[108.6]	d
SCR 1359-5212	13 59 17.58	-52 12 55.4	0.304	264.3	16.86	15.04	13.45	12.19	11.67	11.38	2.85	81.3	
SCR 1401-5311	14 01 25.12	-53 11 17.5	0.198	255.6	18.19	16.45	15.25	13.32	12.68	12.47	3.13	116.6	
SCR 1404-5434	14 04 11.17	-54 34 16.6	0.283	264.6	17.79	15.93	15.26	13.76	13.23	13.10	2.17	[232.6]	d
SCR 1404-5131	14 04 26.82	-51 31 17.9	0.184	260.8	18.25	16.36	14.27	12.58	11.99	11.69	3.78	59.4	
SCR 1404-5310	14 04 15.19	-53 10 20.8	0.187	249.2	16.69	14.94	13.61	12.08	11.42	11.25	2.86	74.9	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1404-8228	14 04 17.68	-82 28 39.1	0.205	199.3	17.31	15.35	13.35	11.90	11.41	11.12	3.45	54.3	
SCR 1406-4908	14 06 07.46	-49 08 41.5	0.277	213.5	16.54	15.25	14.61	13.60	13.08	12.89	1.66	[208.4]	d
SCR 1407-7042	14 07 26.39	-70 42 21.7	0.204	137.4	17.47	15.64	13.25	12.00	11.52	11.28	3.64	57.7	
SCR 1407-7248	14 07 01.17	-72 48 59.7	0.241	242.9	16.07	14.09	12.70	11.85	11.20	11.04	2.24	85.8	
SCR 1409-5337	14 09 49.48	-53 37 25.9	0.450	212.4	16.45	14.33	13.06	11.72	11.24	10.95	2.61	70.2	
SCR 1409-7343	14 09 52.18	-73 43 36.3	0.211	269.1	16.53	14.71	12.63	11.41	10.88	10.66	3.31	49.1	
SCR 1410-7402	14 10 11.12	-74 02 00.4	0.215	183.9	17.03	15.18	13.27	11.95	11.40	11.22	3.23	64.5	
SCR 1410-7534	14 10 21.88	-75 34 47.0	0.203	177.5	17.97	16.21	15.56	14.33	13.73	13.54	1.88	[286.9]	d
SCR 1411-7525B	14 11 51.41	-75 25 05.4	0.250	242.1	17.90	16.43	14.54	13.10	12.57	12.32	3.33	111.5	a
SCR 1412-4954	14 12 43.86	-49 54 32.2	0.420	212.9	15.85	13.82	12.25	11.66	11.12	10.88	2.16	83.9	
SCR 1412-8307	14 12 41.92	-83 07 45.0	0.277	241.3	16.16	14.09	12.51	11.90	11.38	11.14	2.19	92.9	
SCR 1413-4902	14 13 19.82	-49 02 40.8	0.335	259.2	17.41	15.44	13.83	12.53	12.01	11.78	2.91	93.3	
SCR 1417-5018	14 17 56.29	-50 18 22.5	0.200	226.7	17.35	15.26	13.67	12.24	11.68	11.40	3.02	70.7	
SCR 1419-4847	14 19 14.26	-48 47 33.2	0.197	245.4	17.33	15.32	13.34	12.05	11.49	11.21	3.27	59.8	
SCR 1420-7516	14 20 36.84	-75 16 05.9	0.195	243.7	14.23	12.68	10.45	9.44	8.91	8.63	3.24	21.3	
SCR 1420-5106	14 20 21.66	-51 06 51.3	0.489	130.4	14.64	13.01	11.57	10.46	9.92	9.70	2.55	44.5	
SCR 1423-7122	14 23 58.92	-71 22 57.7	0.213	213.7	12.57	10.71	10.42	10.21	9.65	9.60	0.50	49.7	
SCR 1424-8503	14 24 51.43	-85 03 05.5	0.205	241.2	16.80	14.76	12.48	11.23	10.61	10.33	3.54	35.3	
SCR 1424-8124	14 24 44.98	-81 24 12.0	0.250	239.2	17.60	15.70	13.42	11.54	10.95	10.66	4.16	31.4	
SCR 1426-5330	14 26 29.58	-53 30 26.9	0.297	251.4	17.14	15.66	13.92	12.14	11.64	11.36	3.52	65.0	
SCR 1426-8655	14 26 08.79	-86 55 41.5	0.301	232.4	18.18	16.01	13.90	12.58	11.99	11.69	3.42	66.8	
SCR 1426-4715	14 26 05.28	-47 15 51.4	0.288	256.5	17.51	15.64	14.56	13.63	13.00	12.85	2.01	[216.6]	d
SCR 1426-4946	14 26 02.67	-49 46 51.9	0.194	251.0	17.14	15.73	15.18	13.78	13.11	12.90	1.96	[166.9]	d
SCR 1427-7335	14 27 27.58	-73 35 39.9	0.183	253.9	15.04	12.98	11.87	11.17	10.52	10.38	1.81	72.5	
SCR 1429-7412	14 29 31.49	-74 12 16.2	0.326	237.8	17.10	15.41	13.24	12.00	11.51	11.29	3.41	65.7	
SCR 1430-5331	14 30 51.02	-53 31 11.9	0.365	268.0	17.98	16.14	14.25	11.94	11.42	11.07	4.19	38.5	
SCR 1431-4904	14 31 05.07	-49 04 22.6	0.201	222.7	18.06	15.99	13.86	12.17	11.67	11.39	3.82	50.8	
SCR 1432-7154	14 32 29.85	-71 54 13.6	0.229	310.6	17.80	16.23	14.36	13.09	12.56	12.31	3.13	117.8	
SCR 1433-7138	14 33 41.79	-71 38 42.6	0.182	202.0	13.62	11.69	11.19	10.46	9.84	9.72	1.23	53.1	
SCR 1433-6905	14 33 42.36	-69 05 53.4	0.201	242.5	16.14	15.13	14.58	13.71	13.18	13.15	1.43	[253.4]	d
SCR 1434-5003	14 34 09.30	-50 03 34.5	0.195	220.9	16.66	14.45	12.92	11.63	11.02	10.81	2.82	57.4	
SCR 1434-7433	14 34 34.69	-74 33 39.4	0.218	250.3	16.79	15.25	14.68	13.53	12.91	12.78	1.72	[184.9]	d
SCR 1435-5717	14 35 20.21	-57 17 27.6	0.229	271.1	16.07	14.47	13.18	11.26	10.59	10.42	3.21	44.9	
SCR 1438-4707	14 38 54.54	-47 07 28.5	0.194	189.5	13.00	11.02	10.40	9.89	9.24	9.11	1.13	41.7	
SCR 1438-8102	14 38 50.42	-81 02 26.4	0.193	125.9	13.75	11.72	11.22	9.94	9.34	9.11	1.78	37.9	
SCR 1438-5327	14 38 02.18	-53 27 35.0	0.196	211.4	17.45	16.09	13.85	11.79	11.27	11.00	4.30	40.3	
SCR 1440-5745	14 40 02.06	-57 45 17.8	0.208	238.6	14.00	12.14	11.54	10.23	9.62	9.51	1.90	43.9	
SCR 1440-5059	14 40 12.58	-50 59 23.1	0.221	234.6	18.30	16.25	13.93	12.16	11.59	11.28	4.09	42.0	
SCR 1440-7456	14 40 57.42	-74 56 20.3	0.210	225.3	17.36	15.18	13.55	12.22	11.64	11.44	2.97	73.3	
SCR 1440-5601	14 40 42.43	-56 01 33.4	0.205	261.0	18.15	16.26	14.94	12.81	12.33	11.99	3.45	81.0	
SCR 1440-5020	14 40 16.72	-50 20 36.3	0.185	244.6	18.12	16.21	14.32	12.85	12.31	12.07	3.36	87.6	
SCR 1440-5159	14 40 32.67	-51 59 46.0	0.192	162.1	15.91	13.94	12.70	11.37	10.82	10.55	2.57	59.7	
SCR 1441-7003	14 41 25.89	-70 03 00.8	0.183	256.7	17.61	15.62	14.77	13.67	13.00	12.83	1.95	212.1	
SCR 1441-7338	14 41 14.42	-73 38 41.4	0.207	029.0	18.28	16.15	13.05	11.20	10.61	10.27	4.95	19.0	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1442-5112	14 42 10.13	-51 12 56.4	0.182	235.1	16.38	14.33	12.53	11.14	10.58	10.27	3.19	39.3	
SCR 1443-5555	14 43 21.36	-55 55 44.1	0.181	162.3	16.46	14.32	13.45	12.17	11.64	11.43	2.15	103.7	
SCR 1443-5502	14 43 26.04	-55 02 53.2	0.477	277.5	15.08	13.22	11.56	10.28	9.70	9.48	2.94	32.3	
SCR 1445-5046	14 45 23.96	-50 46 06.0	0.435	244.1	17.09	15.51	13.63	12.02	11.49	11.29	3.49	63.1	
SCR 1445-6913	14 45 19.02	-69 13 17.1	0.228	018.8	17.12	15.56	13.65	12.59	12.07	11.78	2.97	100.5	
SCR 1446-4718	14 46 34.24	-47 18 47.3	0.191	246.3	16.49	14.58	12.87	12.02	11.40	11.22	2.56	84.6	
SCR 1446-7119	14 46 22.07	-71 19 59.9	0.199	219.9	16.26	14.00	13.06	12.34	11.72	11.56	1.67	127.6	
SCR 1448-5735	14 48 39.82	-57 35 17.7	0.202	188.8	12.47	10.60	12.46	9.15	8.56	8.43	1.45	18.2	
SCR 1449-5456	14 49 49.03	-54 56 59.7	0.252	157.7	17.67	15.82	15.23	13.33	12.57	12.33	2.50	111.7	
SCR 1450-7047	14 50 12.68	-70 47 47.9	0.187	250.3	14.45	13.66	12.95	12.86	12.34	12.20	0.80	195.7	
SCR 1450-5651	14 50 41.74	-56 51 48.0	0.322	252.4	15.85	14.09	12.71	10.80	10.18	9.98	3.29	34.7	
SCR 1451-5407	14 51 39.66	-54 07 44.9	0.182	217.4	16.57	14.84	13.90	12.12	11.47	11.23	2.72	77.9	
SCR 1451-5115	14 51 21.76	-51 15 54.6	0.201	271.5	14.75	12.84	11.49	10.83	10.21	10.06	2.00	60.5	
SCR 1451-5039	14 51 30.65	-50 39 57.3	0.192	162.2	16.41	14.53	12.32	11.31	10.73	10.45	3.23	45.3	
SCR 1452-7055	14 52 11.98	-70 55 29.6	0.196	216.8	17.22	15.37	14.51	13.68	13.16	12.95	1.69	[243.6]	d
SCR 1452-7147	14 52 45.04	-71 47 37.9	0.219	319.9	18.52	16.49	15.12	14.11	13.58	13.39	2.38	243.6	
SCR 1454-4940	14 54 16.15	-49 40 06.2	0.295	232.9	15.12	13.29	11.18	10.59	10.01	9.74	2.71	41.6	
SCR 1454-7347	14 54 00.73	-73 47 44.5	0.202	229.7	17.73	15.51	13.57	12.25	11.70	11.45	3.25	64.9	
SCR 1455-6926	14 55 04.04	-69 26 27.4	0.200	275.1	17.27	15.35	13.83	12.99	12.43	12.19	2.36	143.3	
SCR 1455-4846	14 55 27.37	-48 46 29.6	0.331	265.9	16.52	14.74	12.54	11.91	11.36	11.15	2.83	77.9	
SCR 1455-8150	14 55 04.97	-81 50 32.9	0.265	005.7	15.96	14.26	13.47	12.32	11.76	11.58	1.94	122.6	
SCR 1456-7239	14 56 02.29	-72 39 41.4	0.207	225.0	16.50	14.22	11.99	10.62	10.06	9.74	3.60	24.9	
SCR 1457-8409	14 57 44.19	-84 09 16.8	0.362	216.0	17.02	14.81	13.58	12.58	12.05	11.81	2.23	119.7	
SCR 1457-4843	14 57 33.90	-48 43 29.1	0.183	076.3	13.10	10.76	10.18	10.03	9.38	9.25	0.73	44.4	
SCR 1457-5012	14 57 41.45	-50 12 34.4	0.221	227.0	15.17	13.64	11.83	11.51	10.89	10.68	2.13	81.2	
SCR 1459-7007	14 59 23.94	-70 07 20.4	0.202	039.0	15.53	13.50	11.67	10.75	10.05	9.83	2.75	38.9	
SCR 1500-5606	15 00 33.52	-56 06 49.4	0.270	216.8	15.00	13.32	12.19	10.67	10.05	9.82	2.65	42.8	
SCR 1501-4723	15 01 54.28	-47 23 14.2	0.196	178.2	12.58	9.86	9.32	9.52	8.91	8.66	0.34	33.8	
SCR 1502-7214	15 02 14.16	-72 14 03.0	0.300	214.6	16.91	14.75	12.74	11.63	11.10	10.83	3.12	53.3	
SCR 1507-4931	15 07 09.55	-49 31 05.3	0.195	173.6	17.66	15.68	12.99	11.90	11.33	11.02	3.78	46.3	
SCR 1507-6803	15 07 21.25	-68 03 34.7	0.181	230.4	16.87	16.07	13.90	13.14	12.55	12.30	2.93	149.1	
SCR 1507-4740	15 07 03.83	-47 40 41.6	0.202	246.0	15.55	13.51	11.98	11.25	10.68	10.43	2.26	64.7	
SCR 1508-6816	15 08 59.03	-68 16 41.7	0.191	231.0	18.09	16.01	13.96	12.87	12.36	12.10	3.14	97.4	
SCR 1508-8302	15 08 33.10	-83 02 54.7	0.324	246.9	18.17	16.21	14.66	13.77	13.27	13.08	2.44	[212.2]	d
SCR 1510-5454	15 10 15.50	-54 54 05.2	0.281	220.3	16.49	15.23	13.40	11.33	10.74	10.46	3.91	37.4	
SCR 1510-5141	15 10 56.56	-51 41 35.6	0.329	276.1	13.95	11.32	9.59	9.39	8.84	8.58	1.93	28.0	
SCR 1513-4945	15 13 40.66	-49 45 00.7	0.230	238.2	17.55	15.91	13.53	12.87	12.27	12.02	3.04	108.6	
SCR 1514-5017	15 14 05.38	-50 17 35.2	0.263	266.7	16.58	15.15	13.22	12.20	11.63	11.45	2.95	89.5	
SCR 1517-8208	15 17 50.25	-82 08 56.2	0.200	235.7	15.49	14.50	14.05	13.20	12.68	12.57	1.30	[194.0]	d
SCR 1522-4725	15 22 08.68	-47 25 08.3	0.199	255.1	16.97	14.82	13.40	12.69	12.12	11.92	2.13	132.9	
SCR 1522-8409	15 22 19.95	-84 09 13.2	0.217	087.7	13.15	11.20	10.03	9.56	8.92	8.71	1.64	35.4	
SCR 1522-7024	15 22 28.02	-70 24 41.4	0.307	204.5	17.68	15.93	14.04	12.64	12.07	11.84	3.29	83.9	
SCR 1530-6823	15 30 02.21	-68 23 30.7	0.323	229.1	17.69	15.63	13.53	11.97	11.36	11.10	3.66	46.3	
SCR 1531-6937	15 31 04.37	-69 37 34.6	0.219	304.1	17.00	14.70	12.35	11.21	10.71	10.44	3.49	37.8	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1532-6950	15 32 05.13	-69 50 23.7	0.299	249.3	16.21	14.77	14.06	13.24	12.69	12.63	1.53	[208.3]	d
SCR 1537-6928	15 37 55.84	-69 28 50.7	0.247	226.9	18.10	15.95	13.82	12.26	11.71	11.51	3.69	55.8	
SCR 1542-4731	15 42 41.40	-47 31 54.4	0.263	230.6	18.18	16.36	14.86	13.22	12.60	12.39	3.14	110.7	
SCR 1546-4733	15 46 44.18	-47 33 29.8	0.181	230.7	17.64	15.95	13.88	12.14	11.51	11.23	3.81	49.5	
SCR 1547-7106	15 47 07.97	-71 06 14.2	0.379	240.2	17.54	15.53	14.59	13.72	13.05	12.87	1.81	[226.8]	d
SCR 1550-4718	15 50 55.19	-47 18 48.6	0.413	247.6	16.12	14.23	13.22	11.79	11.19	10.98	2.44	77.2	
SCR 1552-7052	15 52 46.86	-70 52 01.9	0.468	216.0	16.32	14.18	11.92	10.80	10.28	10.06	3.38	34.4	
SCR 1552-8108	15 52 38.55	-81 08 44.9	0.194	236.0	15.41	13.64	12.17	11.57	10.93	10.73	2.07	81.7	
SCR 1555-4733	15 55 54.65	-47 33 35.0	0.196	246.7	15.70	14.13	13.21	11.34	10.79	10.56	2.79	58.7	
SCR 1558-7045	15 58 48.36	-70 45 30.1	0.187	229.2	16.37	14.07	12.24	11.29	10.75	10.48	2.78	50.8	
SCR 1601-8428	16 01 42.12	-84 28 10.7	0.273	208.6	18.06	16.05	14.30	13.08	12.67	12.37	2.97	122.0	
SCR 1609-6854	16 09 42.32	-68 54 40.7	0.255	218.7	16.52	14.44	12.64	11.92	11.42	11.24	2.51	87.2	
SCR 1611-7526	16 11 11.47	-75 26 30.0	0.181	182.6	17.99	16.20	14.86	13.99	13.42	13.22	2.21	248.3	
SCR 1615-7035	16 15 38.80	-70 35 16.0	0.223	213.7	18.41	16.49	14.67	13.49	12.95	12.74	3.00	141.7	
SCR 1616-8403	16 16 56.37	-84 03 55.7	0.205	086.2	16.63	14.45	12.51	11.42	10.90	10.57	3.03	48.6	
SCR 1618-7516	16 18 39.61	-75 16 09.4	0.236	210.1	16.77	14.73	12.62	11.97	11.43	11.22	2.77	78.4	
SCR 1618-8212	16 18 32.89	-82 12 08.7	0.236	234.5	16.40	14.35	12.46	11.21	10.57	10.33	3.14	41.0	
SCR 1620-7553	16 20 44.08	-75 53 43.1	0.244	199.1	18.35	16.11	14.08	13.03	12.49	12.29	3.08	105.7	
SCR 1621-7709	16 21 57.68	-77 09 34.0	0.258	216.0	17.38	15.16	12.80	11.71	11.14	10.83	3.45	45.6	
SCR 1622-7220	16 22 59.49	-72 20 02.0	0.203	197.3	18.45	16.47	14.72	13.19	12.60	12.33	3.28	98.4	
SCR 1627-7337	16 27 37.11	-73 37 06.3	0.439	235.8	15.71	13.88	13.26	12.65	12.01	11.94	1.23	[151.7]	d
SCR 1631-7925	16 31 47.23	-79 25 48.2	0.320	194.6	16.91	14.94	12.77	11.45	10.90	10.65	3.49	43.1	
SCR 1633-6834	16 33 01.69	-68 34 09.4	0.207	239.6	16.87	15.43	13.40	12.05	11.44	11.19	3.38	63.8	
SCR 1633-7004	16 33 46.54	-70 04 30.9	0.183	215.8	17.30	15.11	13.88	12.88	12.32	12.13	2.23	139.2	
SCR 1634-6320	16 34 38.77	-63 20 01.5	0.204	305.9	17.41	15.30	14.35	13.38	12.81	12.64	1.92	198.1	
SCR 1636-7806	16 36 47.81	-78 06 34.2	0.182	212.3	17.93	15.86	13.87	12.44	11.88	11.64	3.42	67.6	
SCR 1637-7437	16 37 08.06	-74 37 19.0	0.225	198.3	16.73	14.55	12.85	11.84	11.26	11.04	2.72	68.9	
SCR 1637-6232	16 37 22.62	-62 32 41.3	0.281	199.5	16.94	15.06	13.09	11.89	11.36	11.17	3.17	65.3	
SCR 1637-6826	16 37 44.59	-68 26 54.6	0.185	199.7	17.61	15.58	14.16	13.08	12.48	12.30	2.51	137.5	
SCR 1641-7520	16 41 17.72	-75 20 43.9	0.193	186.8	15.80	13.79	11.96	11.05	10.42	10.18	2.73	47.1	
SCR 1643-6327	16 43 54.73	-63 27 35.5	0.245	223.3	16.39	14.09	12.21	11.23	10.65	10.43	2.86	48.0	
SCR 1646-6434	16 46 21.36	-64 34 16.6	0.256	205.3	17.22	14.78	12.95	11.79	11.17	10.93	2.99	54.0	
SCR 1646-6419	16 46 12.79	-64 19 31.1	0.215	206.7	18.33	16.00	14.48	13.28	12.67	12.38	2.73	119.4	
SCR 1647-6557	16 47 51.98	-65 57 55.5	0.210	190.9	16.63	14.47	12.76	11.74	11.23	11.00	2.73	68.9	
SCR 1648-7238	16 48 17.41	-72 38 18.8	0.332	192.7	18.40	16.25	14.36	12.76	12.25	11.99	3.49	75.5	
SCR 1648-6252	16 48 57.49	-62 52 17.9	0.184	185.3	13.30	11.72	10.89	10.33	9.76	9.61	1.39	53.7	
SCR 1649-7643	16 49 26.05	-76 43 20.5	0.279	205.6	16.24	14.16	12.51	11.71	11.16	10.96	2.45	77.2	
SCR 1649-7036	16 49 05.92	-70 36 36.7	0.225	165.8	17.15	15.49	13.50	12.17	11.56	11.30	3.32	65.4	
SCR 1651-8229	16 51 13.61	-82 29 45.6	0.193	169.8	13.80	11.84	10.97	10.25	9.61	9.46	1.59	49.8	
SCR 1652-7609	16 52 49.72	-76 09 12.5	0.283	206.4	15.73	13.57	11.49	10.59	10.01	9.77	2.98	34.8	
SCR 1652-6931	16 52 04.90	-69 31 14.2	0.205	195.4	18.48	16.38	14.31	12.95	12.34	12.11	3.43	82.0	
SCR 1652-7444	16 52 46.53	-74 44 11.1	0.298	218.7	15.46	13.39	12.06	11.10	10.55	10.29	2.29	59.4	
SCR 1652-6655	16 52 47.31	-66 55 21.8	0.185	224.4	16.90	15.03	13.24	12.20	11.69	11.42	2.83	84.4	
SCR 1653-7237	16 53 45.84	-72 37 18.5	0.203	053.8	18.47	16.38	14.42	12.93	12.34	12.10	3.45	80.7	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1653-6442	16 53 11.65	-64 42 15.7	0.185	213.6	17.24	15.70	14.85	13.89	13.29	13.17	1.81	[243.7]	d
SCR 1654-5737	16 54 40.26	-57 37 41.2	0.186	198.2	17.52	15.71	15.10	14.16	13.57	13.46	1.56	[276.9]	d
SCR 1654-6439	16 54 12.98	-64 39 59.3	0.181	200.9	16.80	14.70	13.28	12.37	11.80	11.56	2.33	104.0	
SCR 1655-6239	16 55 47.41	-62 39 27.6	0.185	236.5	16.53	14.93	13.86	13.02	12.41	12.25	1.91	161.9	
SCR 1655-6650	16 55 46.31	-66 50 47.9	0.235	255.7	18.25	16.36	14.07	12.82	12.31	12.03	3.54	82.2	
SCR 1655-6432	16 55 26.52	-64 32 59.0	0.203	238.8	17.56	15.42	13.74	12.69	12.13	11.92	2.73	103.8	
SCR 1656-4708	16 56 07.57	-47 08 16.6	0.183	212.5	13.16	11.00	10.17	9.59	8.94	8.75	1.42	37.0	
SCR 1658-6731	16 58 02.99	-67 31 15.8	0.222	189.6	15.38	13.34	11.81	10.80	10.19	9.97	2.54	46.3	
SCR 1700-7930	17 00 27.60	-79 30 19.7	0.264	188.3	16.85	14.66	13.09	11.98	11.43	11.21	2.67	75.9	
SCR 1700-6653	17 00 01.37	-66 53 12.1	0.194	228.7	15.52	13.53	12.67	12.02	11.47	11.28	1.50	114.8	
SCR 1700-7452	17 00 16.10	-74 52 41.7	0.193	299.9	17.04	15.46	14.54	13.72	13.25	13.01	1.74	[245.0]	d
SCR 1700-6950	17 00 12.83	-69 50 51.8	0.258	197.4	18.07	16.03	14.61	13.36	12.84	12.64	2.67	152.1	
SCR 1701-6212	17 01 11.67	-62 12 34.0	0.196	199.3	18.20	15.86	14.00	13.19	12.66	12.47	2.67	135.7	
SCR 1701-6742	17 01 15.91	-67 42 52.3	0.219	173.3	17.04	14.89	13.01	11.86	11.29	11.00	3.03	58.9	
SCR 1702-7106	17 02 25.58	-71 06 24.4	0.212	194.7	17.81	15.76	13.88	12.73	12.04	11.90	3.02	89.6	
SCR 1702-7628	17 02 09.93	-76 28 21.0	0.218	216.0	16.95	14.64	12.64	11.58	10.98	10.72	3.06	49.6	
SCR 1703-5922	17 03 56.54	-59 22 47.9	0.227	157.4	19.29	16.43	14.44	13.36	12.81	12.55	3.07	105.7	
SCR 1705-6349	17 05 34.41	-63 49 46.4	0.256	152.0	17.12	15.06	13.23	12.13	11.65	11.42	2.94	79.1	
SCR 1705-7115	17 05 26.19	-71 15 56.7	0.282	189.0	16.78	14.81	12.88	11.59	10.99	10.74	3.23	49.3	
SCR 1706-6330	17 06 38.01	-63 30 22.5	0.201	166.8	14.35	12.35	11.20	10.66	10.01	9.85	1.69	59.0	
SCR 1707-6521	17 07 31.02	-65 21 57.5	0.217	262.0	14.69	13.15	12.43	11.86	11.28	11.14	1.29	109.7	
SCR 1707-6354	17 07 23.44	-63 54 59.8	0.238	169.6	17.79	15.36	13.45	12.16	11.58	11.33	3.20	59.5	
SCR 1709-6636	17 09 06.12	-66 36 48.5	0.322	203.1	18.46	16.47	14.16	12.82	12.27	12.07	3.65	77.8	
SCR 1709-7154	17 09 32.15	-71 54 58.8	0.241	194.4	17.17	15.20	13.24	11.99	11.45	11.16	3.21	61.2	
SCR 1712-7108	17 12 38.42	-71 08 04.9	0.227	236.0	15.67	13.56	12.18	11.28	10.72	10.52	2.27	66.5	
SCR 1714-7008	17 14 02.13	-70 08 23.5	0.206	209.3	17.80	15.62	13.36	11.88	11.31	11.05	3.74	43.8	
SCR 1714-7129	17 14 29.15	-71 29 31.7	0.210	177.3	16.89	16.27	14.20	13.01	12.36	12.13	3.26	123.3	
SCR 1715-7414	17 15 46.38	-74 14 39.8	0.389	175.3	16.05	13.90	12.07	11.17	10.59	10.40	2.72	51.9	
SCR 1715-5821	17 15 11.13	-58 21 45.4	0.222	202.0	15.90	14.91	12.95	12.10	11.45	11.28	2.81	92.9	
SCR 1715-6712	17 15 14.95	-67 12 53.7	0.287	217.8	17.51	15.38	13.33	12.48	11.87	11.65	2.91	86.0	
SCR 1717-6916	17 17 52.67	-69 16 43.3	0.466	320.9	17.45	15.03	12.86	11.48	10.94	10.66	3.55	38.3	
SCR 1718-6036	17 18 06.96	-60 36 23.3	0.213	196.7	13.40	12.28	11.72	11.57	11.20	11.11	0.70	102.1	
SCR 1720-6547	17 20 05.72	-65 47 22.2	0.206	181.8	15.63	13.53	11.81	10.95	10.41	10.19	2.59	50.8	
SCR 1721-7341	17 21 42.99	-73 41 01.0	0.194	318.6	16.43	15.02	14.18	13.40	12.83	12.73	1.62	[214.0]	d
SCR 1721-7004	17 21 26.19	-70 04 46.8	0.274	184.6	14.30	12.00	11.16	10.96	10.32	10.16	1.04	68.8	
SCR 1722-5638	17 22 30.78	-56 38 01.9	0.185	202.3	15.04	13.38	11.80	10.83	10.23	10.03	2.55	51.2	
SCR 1724-5637	17 24 36.41	-56 37 03.2	0.421	154.5	15.17	13.11	11.42	10.39	9.85	9.63	2.72	37.2	
SCR 1724-6102	17 24 44.53	-61 02 25.6	0.199	206.3	17.45	15.56	14.72	14.17	13.66	13.38	1.40	[309.4]	d
SCR 1725-5417	17 25 39.14	-54 17 49.6	0.226	198.3	11.64	10.58	10.04	9.60	9.10	9.02	0.98	36.9	
SCR 1725-7358	17 25 11.47	-73 58 53.6	0.181	185.2	17.86	15.69	13.62	12.44	11.88	11.68	3.26	74.3	
SCR 1726-7404	17 26 43.50	-74 04 33.5	0.214	193.4	15.76	13.66	12.50	11.75	11.09	10.91	1.91	88.9	
SCR 1727-5851	17 27 15.09	-58 51 24.3	0.188	153.7	17.36	15.02	13.09	11.91	11.33	11.12	3.11	58.1	
SCR 1727-7410	17 27 11.43	-74 10 34.6	0.253	212.7	18.13	16.21	14.80	13.58	13.05	12.88	2.63	177.1	
SCR 1727-5439	17 27 08.58	-54 39 41.1	0.251	136.3	14.00	11.51	10.58	9.95	9.37	9.22	1.56	43.7	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1727-7053	17 27 14.06	-70 53 50.8	0.203	140.0	16.00	13.87	12.46	11.56	10.95	10.73	2.32	70.4	
SCR 1728-5720	17 28 54.83	-57 20 43.9	0.188	185.0	11.65	10.77	10.30	9.89	9.40	9.35	0.89	43.4	
SCR 1729-6906	17 29 29.72	-69 06 12.3	0.197	238.3	17.06	15.09	14.06	13.17	12.61	12.46	1.93	186.6	
SCR 1730-6934	17 30 21.60	-69 34 00.6	0.321	191.8	16.19	14.21	12.24	11.04	10.52	10.25	3.17	41.4	
SCR 1730-7501	17 30 04.75	-75 01 10.2	0.268	196.1	13.88	12.96	12.23	11.94	11.56	11.44	1.02	[129.2]	d
SCR 1730-5609	17 30 27.68	-56 09 29.6	0.345	220.1	14.50	13.30	11.49	11.20	10.48	10.37	2.11	66.2	
SCR 1730-6932	17 30 56.07	-69 32 35.3	0.199	214.2	16.40	14.23	13.02	12.12	11.54	11.37	2.11	103.2	
SCR 1731-5538	17 31 16.01	-55 38 40.2	0.181	169.7	17.30	15.89	15.18	14.57	14.02	13.88	1.32	[386.8]	d
SCR 1732-5643	17 32 28.39	-56 43 29.4	0.208	223.2	16.89	14.82	13.59	13.01	12.48	12.28	1.80	177.1	
SCR 1732-5908	17 32 13.00	-59 08 31.4	0.208	177.8	17.23	14.95	12.92	11.45	10.86	10.61	3.50	38.2	
SCR 1732-5831	17 32 54.29	-58 31 39.6	0.192	178.0	16.20	14.15	12.30	11.11	10.56	10.35	3.04	45.1	
SCR 1732-7219	17 32 04.61	-72 19 42.0	0.327	214.2	17.73	15.66	13.71	12.39	11.83	11.61	3.27	72.0	
SCR 1733-7445	17 33 20.39	-74 45 21.9	0.222	179.1	15.68	13.71	12.11	11.20	10.57	10.39	2.51	57.5	
SCR 1734-8202	17 34 31.53	-82 02 16.4	0.252	236.2	17.62	15.77	13.77	12.14	11.63	11.38	3.64	57.6	
SCR 1734-5926	17 34 20.25	-59 26 38.4	0.193	178.3	18.69	16.37	13.85	12.06	11.50	11.18	4.32	35.2	
SCR 1734-5542	17 34 57.45	-55 42 31.6	0.264	192.1	17.00	14.75	12.54	11.46	10.86	10.57	3.29	42.6	
SCR 1734-5605	17 34 34.07	-56 05 45.4	0.240	317.3	15.29	13.15	11.55	10.89	10.24	10.03	2.26	52.3	
SCR 1736-5901	17 36 21.35	-59 01 50.6	0.185	177.1	18.45	16.45	14.61	12.96	12.43	12.13	3.49	82.3	
SCR 1737-6831	17 37 22.68	-68 31 57.5	0.182	187.9	17.96	16.22	15.38	14.36	13.71	13.53	1.85	[309.7]	d
SCR 1738-5607	17 38 03.17	-56 07 15.1	0.271	203.1	16.69	14.49	12.61	11.92	11.35	11.12	2.57	77.2	
SCR 1738-7600	17 38 25.08	-76 00 28.8	0.218	186.6	17.27	15.37	13.77	12.70	12.09	11.89	2.67	108.8	
SCR 1738-5942	17 38 41.02	-59 42 24.4	0.280	148.2	16.57	14.21	11.93	10.38	9.83	9.58	3.83	20.8	
SCR 1739-7027	17 39 27.00	-70 27 05.3	0.282	195.9	16.69	14.62	12.90	11.66	11.10	10.85	2.95	57.7	
SCR 1739-8222	17 39 45.36	-82 22 02.2	0.465	211.8	17.05	15.03	14.21	12.89	12.37	12.19	2.14	[151.6]	d
SCR 1740-5646	17 40 46.96	-56 46 58.0	0.448	229.5	18.47	15.90	14.44	13.83	13.33	13.19	2.07	[232.9]	d
SCR 1742-6923	17 42 56.17	-69 23 07.0	0.197	194.3	17.21	15.66	13.76	12.59	12.02	11.76	3.08	94.1	
SCR 1742-7239	17 42 28.55	-72 39 19.7	0.199	148.1	12.14	10.27	9.69	8.96	8.37	8.25	1.32	27.0	
SCR 1742-6817	17 42 48.55	-68 17 22.5	0.243	212.3	18.19	16.11	14.41	13.32	12.77	12.55	2.79	137.8	
SCR 1743-6234	17 43 48.96	-62 34 35.4	0.196	188.9	15.72	14.26	13.66	12.98	12.46	12.38	1.29	[179.6]	d
SCR 1743-5943	17 43 38.83	-59 43 31.4	0.365	196.3	17.71	15.92	14.27	12.81	12.29	12.03	3.11	98.9	
SCR 1744-6238	17 44 18.63	-62 38 06.7	0.296	182.5	18.39	16.31	15.40	14.21	13.66	13.51	2.10	[279.5]	d
SCR 1744-7043	17 44 48.60	-70 43 15.0	0.325	237.5	16.04	14.01	12.24	11.19	10.65	10.43	2.82	51.9	
SCR 1745-7357	17 45 05.64	-73 57 24.7	0.184	191.2	14.25	12.13	10.86	10.00	9.38	9.15	2.14	36.4	
SCR 1746-8211B	17 46 21.54	-82 11 56.6	0.228	184.9	13.42	11.36	9.65	8.55	7.99	7.71	2.81	14.5	a
SCR 1747-6031	17 47 47.93	-60 31 41.6	0.216	214.0	17.13	15.05	12.89	11.51	10.98	10.75	3.55	43.2	
SCR 1748-5628	17 48 10.67	-56 28 09.5	0.206	207.9	18.13	15.92	14.03	12.98	12.48	12.26	2.94	111.8	
SCR 1748-7211	17 48 51.79	-72 11 53.0	0.428	191.0	16.99	14.85	12.87	11.57	10.99	10.74	3.28	46.8	
SCR 1751-6104	17 51 05.52	-61 04 06.8	0.188	177.9	18.50	16.19	14.61	13.35	12.76	12.57	2.83	126.7	
SCR 1752-4742	17 52 17.48	-47 42 24.1	0.310	179.0	18.43	16.19	13.64	12.47	11.96	11.66	3.72	60.9	
SCR 1753-7403	17 53 32.61	-74 03 46.4	0.181	194.6	16.28	14.04	11.80	10.56	9.96	9.70	3.48	26.1	
SCR 1754-5954	17 54 09.12	-59 54 32.7	0.187	238.9	18.00	16.22	14.34	12.89	12.34	12.08	3.33	91.4	
SCR 1755-7241B	17 55 32.16	-72 41 21.4	0.199	175.2	15.60	13.54	12.10	11.18	10.62	10.38	2.36	60.3	a
SCR 1757-5646	17 57 34.86	-56 46 23.3	0.270	159.9	18.24	16.00	14.37	13.48	12.91	12.71	2.51	160.9	
SCR 1757-5821	17 57 16.15	-58 21 50.6	0.190	199.6	16.78	15.34	13.55	12.21	11.58	11.31	3.13	74.2	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1759-5105	17 59 12.11	-51 05 03.6	0.230	257.6	16.13	14.09	13.00	12.22	11.68	11.49	1.87	121.1	
SCR 1800-5112A	18 00 29.91	-51 12 12.7	0.289	226.5	...	...	...	12.58	12.08	11.85	...	...	a c
SCR 1800-5112B	18 00 29.91	-51 12 12.7	0.317	220.3	14.23	13.67	11.46	13.42	12.90	12.69	0.25	[178.3]	a
SCR 1800-4925	18 00 42.76	-49 25 40.8	0.212	167.2	17.23	15.20	13.17	12.25	11.71	11.43	2.95	77.9	
SCR 1800-6441	18 00 59.80	-64 41 51.3	0.208	203.1	18.30	16.32	14.40	12.97	12.46	12.24	3.35	95.4	
SCR 1801-4724	18 01 41.62	-47 24 24.1	0.185	141.5	16.95	14.72	12.98	11.91	11.36	11.18	2.81	71.0	
SCR 1801-5855	18 01 24.68	-58 55 36.6	0.227	221.1	18.59	16.47	15.20	13.71	13.14	12.93	2.77	159.6	
SCR 1801-7000	18 01 28.85	-70 00 49.4	0.240	160.7	15.10	13.00	10.97	10.01	9.41	9.16	2.99	26.1	
SCR 1802-5338	18 02 46.98	-53 38 14.9	0.200	179.5	14.01	12.71	12.00	11.48	10.90	10.77	1.23	93.8	
SCR 1804-5541B	18 04 29.22	-55 41 06.3	0.198	201.7	19.36	17.66	15.70	14.13	13.67	13.43	3.54	163.4	a c
SCR 1804-8007	18 04 21.58	-80 07 13.4	0.193	180.2	14.06	12.32	10.97	9.86	9.22	9.02	2.46	32.1	
SCR 1804-5541A	18 04 31.10	-55 41 16.5	0.222	194.4	11.94	10.81	10.24	9.96	9.56	9.49	0.85	47.2	a
SCR 1806-5436	18 06 18.44	-54 36 04.8	0.212	198.9	16.82	14.66	12.50	11.54	10.90	10.64	3.12	48.0	
SCR 1806-4923	18 06 14.98	-49 23 58.1	0.194	143.6	14.45	12.49	11.68	12.05	11.51	11.29	0.44	134.0	
SCR 1807-5359	18 07 06.47	-53 59 53.2	0.190	191.3	17.18	15.08	13.08	12.00	11.35	11.09	3.08	59.8	
SCR 1809-6154A	18 09 05.35	-61 54 14.5	0.218	253.2	16.82	13.93	13.54	12.84	12.32	12.09	1.10	[159.3]	a d
SCR 1809-6154B	18 09 02.62	-61 54 14.6	0.201	259.8	17.28	15.48	14.25	13.14	12.57	12.43	2.34	163.9	a
SCR 1810-6401	18 10 37.96	-64 01 01.4	0.181	179.2	13.25	11.29	10.29	9.66	9.03	8.87	1.63	37.7	
SCR 1810-5527	18 10 49.77	-55 27 03.7	0.189	186.3	17.13	14.95	12.99	11.95	11.31	11.09	3.00	61.2	
SCR 1810-7144	18 10 12.57	-71 44 56.1	0.248	197.7	17.38	15.43	13.61	12.46	11.94	11.69	2.96	88.2	
SCR 1811-5510	18 11 34.95	-55 10 37.8	0.482	197.9	17.39	15.16	12.87	11.62	11.06	10.78	3.54	42.5	
SCR 1811-6144	18 11 46.87	-61 44 33.7	0.219	190.6	17.58	15.45	13.25	12.06	11.50	11.24	3.39	57.4	
SCR 1813-7325	18 13 45.56	-73 25 03.8	0.197	176.2	17.48	15.51	13.45	12.32	11.74	11.49	3.19	72.0	
SCR 1813-4905	18 13 48.99	-49 05 42.3	0.251	133.6	16.73	14.64	12.34	11.25	10.74	10.46	3.39	41.4	
SCR 1814-7133	18 14 57.74	-71 33 06.5	0.271	164.7	16.72	14.89	13.32	12.34	11.86	11.65	2.55	107.8	
SCR 1814-4848	18 14 05.39	-48 48 59.5	0.259	178.0	18.26	16.13	13.94	12.99	12.47	12.22	3.14	102.9	
SCR 1816-6615A	18 16 09.08	-66 15 14.4	0.209	207.1	18.08	16.14	15.71	15.21	14.14	14.52	0.92	448.4	a
SCR 1816-6615B	18 16 09.08	-66 15 14.4	...	...	...	...	...	15.30	14.15	14.62	...	...	a c
SCR 1817-7527	18 17 50.22	-75 27 13.6	0.235	221.0	17.17	15.37	14.39	13.07	12.58	12.37	2.30	161.3	
SCR 1817-5026	18 17 22.63	-50 26 57.3	0.198	183.2	18.19	16.22	14.43	13.23	12.72	12.51	2.99	128.4	
SCR 1817-5825	18 17 27.34	-58 25 59.4	0.269	221.3	17.98	16.07	15.46	14.45	13.91	13.70	1.62	[317.8]	d
SCR 1818-5455	18 18 05.38	-54 55 18.7	0.292	170.7	17.00	14.79	12.47	11.23	10.68	10.44	3.55	36.6	
SCR 1818-7504	18 18 15.94	-75 04 30.2	0.207	174.0	17.69	15.76	13.41	12.31	11.75	11.48	3.45	65.8	
SCR 1819-5912	18 19 11.11	-59 12 06.5	0.244	199.1	15.35	12.64	11.71	11.69	11.04	10.89	0.94	99.7	
SCR 1819-5014	18 19 16.92	-50 14 11.5	0.182	206.6	17.81	15.40	13.45	12.19	11.65	11.34	3.21	60.2	
SCR 1819-5414	18 19 11.28	-54 14 14.6	0.330	186.4	15.73	14.28	12.34	11.34	10.79	10.59	2.94	60.7	
SCR 1820-5317	18 20 06.49	-53 17 09.9	0.211	185.9	18.31	16.25	13.82	12.47	11.82	11.55	3.78	54.8	
SCR 1820-5553	18 20 46.62	-55 53 07.7	0.213	149.5	17.43	15.36	13.37	12.27	11.71	11.41	3.09	71.0	
SCR 1820-6357	18 20 40.59	-63 57 18.6	0.197	236.2	17.99	16.09	15.17	14.08	13.49	13.32	2.00	[269.5]	d
SCR 1820-6225	18 20 49.35	-62 25 52.7	0.190	164.8	13.35	11.18	8.44	9.14	8.49	8.30	2.04	22.4	
SCR 1821-6532	18 21 11.00	-65 32 17.4	0.204	198.6	18.08	16.15	15.03	13.69	13.14	12.92	2.46	189.1	
SCR 1821-5549	18 21 45.90	-55 49 17.0	0.424	181.0	16.97	14.63	12.61	11.56	10.99	10.73	3.07	50.1	
SCR 1821-5622	18 21 07.25	-56 22 39.0	0.391	228.4	16.01	13.91	11.98	10.94	10.42	10.18	2.97	43.1	
SCR 1821-5951	18 21 59.54	-59 51 48.5	0.365	194.9	17.49	16.32	15.73	15.20	15.01	14.91	1.12	[588.9]	b

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1821-5544	18 21 38.13	-55 44 53.4	0.243	181.8	15.25	13.29	11.89	11.21	10.57	10.39	2.08	67.9	
SCR 1822-5349	18 22 06.36	-53 49 00.4	0.208	183.2	15.54	13.93	13.53	13.23	12.80	12.75	0.71	210.9	
SCR 1822-5114	18 22 17.25	-51 14 21.0	0.267	191.9	16.52	14.46	12.42	11.54	10.98	10.76	2.92	58.1	
SCR 1823-5849	18 23 42.25	-58 49 27.7	0.239	192.9	18.60	16.36	14.11	12.50	11.87	11.61	3.86	51.8	
SCR 1824-8428	18 24 27.87	-84 28 40.6	0.193	177.5	14.82	12.97	11.38	10.16	9.52	9.29	2.81	30.7	
SCR 1825-5749	18 25 12.48	-57 49 03.6	0.263	210.6	17.28	15.12	12.95	11.49	10.89	10.64	3.63	37.5	
SCR 1825-5745	18 25 55.97	-57 45 01.6	0.323	006.0	15.07	12.91	11.18	10.23	9.68	9.40	2.67	33.1	
SCR 1825-5607	18 25 53.04	-56 07 13.9	0.307	173.9	15.88	13.79	11.90	10.86	10.20	9.97	2.93	38.1	
SCR 1825-7152	18 25 24.60	-71 52 34.7	0.226	160.5	14.62	12.57	11.40	10.76	10.17	9.95	1.82	59.9	
SCR 1825-5640	18 25 03.64	-56 40 59.9	0.260	212.5	15.38	13.35	11.67	10.76	10.16	9.91	2.60	44.1	
SCR 1826-6542	18 26 46.83	-65 42 39.9	0.311	178.9	18.68	16.44	12.91	10.57	9.96	9.55	5.87	9.2	
SCR 1827-5732	18 27 18.34	-57 32 26.5	0.285	212.4	19.07	16.48	15.82	14.88	14.26	14.15	1.60	[392.1]	d
SCR 1828-5558	18 28 08.78	-55 58 05.6	0.202	172.1	16.19	14.12	12.31	11.22	10.62	10.40	2.91	47.9	
SCR 1828-5050	18 28 16.45	-50 50 14.4	0.252	190.9	17.99	15.89	13.79	12.70	12.21	12.00	3.19	92.1	
SCR 1831-4932	18 31 43.21	-49 32 06.3	0.209	173.0	16.42	14.59	12.91	12.24	11.65	11.44	2.35	103.9	
SCR 1831-5912	18 31 25.20	-59 12 18.7	0.214	179.6	14.78	12.80	11.25	10.60	9.95	9.71	2.20	47.2	
SCR 1832-5804	18 32 24.18	-58 04 30.6	0.216	172.3	18.12	16.13	14.82	13.77	13.20	13.07	2.36	211.9	
SCR 1834-5000	18 34 48.67	-50 00 05.9	0.227	191.8	17.25	15.10	12.90	11.99	11.45	11.16	3.11	63.2	
SCR 1836-5219	18 36 12.71	-52 19 08.1	0.277	177.5	18.11	15.96	13.82	12.37	11.77	11.48	3.59	56.1	
SCR 1836-6727	18 36 34.04	-67 27 33.6	0.186	195.0	11.34	10.46	10.09	9.75	9.44	9.35	0.71	44.0	
SCR 1836-4756	18 36 27.12	-47 56 53.3	0.316	185.0	16.90	14.90	12.75	11.85	11.37	11.11	3.05	67.0	
SCR 1837-6057	18 37 21.26	-60 57 05.6	0.294	201.8	16.83	14.76	12.94	11.87	11.30	11.04	2.90	65.0	
SCR 1838-6514	18 38 34.92	-65 14 26.1	0.196	193.6	17.93	15.91	13.75	12.09	11.52	11.29	3.82	48.4	
SCR 1840-7152	18 40 41.99	-71 52 17.8	0.205	197.6	17.08	14.88	13.08	12.09	11.48	11.30	2.80	74.7	
SCR 1840-4900	18 40 48.17	-49 00 20.9	0.278	171.4	18.40	16.44	14.92	13.77	13.30	13.04	2.67	187.9	
SCR 1843-5154	18 43 58.65	-51 54 49.4	0.182	162.3	15.91	13.59	12.03	11.41	10.80	10.60	2.18	68.3	
SCR 1844-6032	18 44 34.32	-60 32 08.5	0.373	168.3	18.56	16.48	14.15	12.32	11.75	11.43	4.16	43.5	
SCR 1844-6225	18 44 32.51	-62 25 58.2	0.211	298.9	16.80	14.98	13.02	11.36	10.77	10.49	3.62	37.4	
SCR 1849-6705	18 49 47.96	-67 05 54.1	0.186	143.3	18.38	16.27	15.02	13.66	13.13	12.89	2.61	169.9	
SCR 1850-4905	18 50 53.70	-49 05 02.4	0.192	175.2	18.26	16.27	14.48	13.17	12.68	12.42	3.10	115.9	
SCR 1850-6257	18 50 54.73	-62 57 24.8	0.221	202.8	18.33	16.14	13.97	12.34	11.82	11.56	3.79	54.0	
SCR 1851-6156	18 51 55.36	-61 56 56.2	0.328	245.2	14.09	12.10	10.30	9.50	8.88	8.69	2.61	25.4	
SCR 1852-7345	18 52 25.46	-73 45 24.2	0.212	178.6	14.78	13.95	13.37	12.81	12.45	12.39	1.14	[182.3]	d
SCR 1853-4725	18 53 09.43	-47 25 03.2	0.244	232.1	18.18	15.58	14.15	12.98	12.45	12.30	2.59	120.5	
SCR 1853-7537	18 53 26.61	-75 37 39.8	0.304	168.7	12.20	9.85	9.09	8.34	7.73	7.50	1.51	20.0	
SCR 1855-6425	18 55 24.41	-64 25 29.4	0.257	187.7	18.37	16.09	13.79	12.31	11.74	11.44	3.78	50.2	
SCR 1856-4704	18 56 38.40	-47 04 58.3	0.252	131.3	16.29	13.93	11.65	10.29	9.75	9.45	3.63	21.4	
SCR 1857-5841	18 57 53.27	-58 41 54.6	0.185	138.7	17.91	15.90	14.31	13.02	12.45	12.17	2.89	109.1	
SCR 1859-5211	18 59 48.21	-52 11 10.6	0.198	171.1	15.29	13.09	11.66	10.86	10.20	9.98	2.23	50.5	
SCR 1859-5432	18 59 47.91	-54 32 21.0	0.233	168.2	12.93	11.74	10.94	10.40	9.79	9.68	1.35	55.6	
SCR 1859-8233	18 59 13.64	-82 33 51.0	0.204	164.5	11.18	10.28	9.91	9.25	8.91	8.85	1.04	32.8	
SCR 1902-7550A	19 02 50.53	-75 50 55.2	0.303	168.8	16.41	14.51	12.85	11.83	11.28	11.07	2.68	75.9	a
SCR 1903-7419	19 03 50.62	-74 19 07.7	0.203	169.3	17.94	16.21	14.50	13.14	12.59	12.43	3.07	123.9	
SCR 1903-5412	19 03 28.43	-54 12 11.0	0.223	165.3	17.75	15.53	13.21	11.54	10.95	10.67	3.98	32.1	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1903-5313	19 03 34.49	-53 13 10.8	0.230	175.4	17.01	14.66	13.13	12.15	11.50	11.28	2.52	79.1	
SCR 1903-7846	19 03 34.36	-78 46 31.0	0.290	149.8	17.07	15.21	14.08	12.74	12.18	11.94	2.47	120.5	
SCR 1904-5732	19 04 37.22	-57 32 17.3	0.200	158.2	17.57	15.47	13.54	12.31	11.73	11.44	3.16	68.4	
SCR 1906-5857	19 06 07.83	-58 57 58.7	0.189	278.0	17.48	15.52	14.08	13.00	12.52	12.27	2.53	139.8	
SCR 1907-7924	19 07 53.45	-79 24 02.5	0.271	038.7	15.53	13.59	11.77	10.36	9.82	9.56	3.23	28.9	
SCR 1908-6129	19 08 36.82	-61 29 32.6	0.199	200.3	17.29	15.56	14.70	13.77	13.17	13.05	1.79	[240.9]	d
SCR 1908-5407	19 08 09.01	-54 07 41.3	0.310	161.9	17.44	15.57	13.62	12.34	11.83	11.58	3.23	76.2	
SCR 1908-4713	19 08 55.41	-47 13 56.4	0.189	262.4	18.22	16.29	14.42	13.19	12.66	12.43	3.10	117.7	
SCR 1911-5018	19 11 21.14	-50 18 45.8	0.328	187.8	16.08	14.00	11.96	10.87	10.26	9.98	3.13	35.6	
SCR 1912-5034	19 12 45.02	-50 34 34.4	0.447	233.7	18.23	16.02	13.69	12.18	11.67	11.35	3.84	48.3	
SCR 1912-4910A	19 12 23.97	-49 10 51.4	0.229	187.7	15.57	13.71	11.68	10.67	10.06	9.79	3.04	35.8	a
SCR 1912-4910B	19 12 21.86	-49 10 54.0	0.254	185.5	16.24	14.33	12.32	11.17	10.56	10.31	3.16	42.3	a
SCR 1913-5800	19 13 03.80	-58 00 31.6	0.209	354.1	17.49	15.13	12.77	11.59	11.01	10.72	3.54	40.4	
SCR 1914-7836	19 14 06.62	-78 36 00.7	0.187	287.8	17.21	15.62	14.90	13.56	12.94	12.80	2.05	204.8	
SCR 1914-6028	19 14 55.28	-60 28 00.2	0.220	247.7	16.73	14.65	13.53	12.61	12.04	11.87	2.04	135.1	
SCR 1914-7109	19 14 34.09	-71 09 47.9	0.214	168.7	10.49	8.14	8.66	8.69	8.34	8.25	-0.54	...	
SCR 1914-8241	19 14 12.83	-82 41 50.8	0.196	200.4	15.91	13.97	12.18	10.77	10.15	9.88	3.20	33.0	
SCR 1915-5046	19 15 47.43	-50 46 17.7	0.209	178.3	16.62	14.60	12.75	11.51	10.88	10.62	3.09	48.5	
SCR 1917-5221	19 17 54.71	-52 21 46.7	0.258	323.4	16.70	14.54	13.18	11.82	11.25	11.07	2.72	68.9	
SCR 1917-4915A	19 17 38.29	-49 15 54.2	0.216	200.3	15.10	12.84	11.45	10.71	10.05	9.82	2.13	48.2	a
SCR 1919-4833	19 19 48.89	-48 33 08.1	0.201	265.3	16.03	14.03	13.00	12.05	11.49	11.30	1.98	106.5	
SCR 1919-6953	19 19 57.49	-69 53 56.2	0.230	168.6	17.41	15.22	13.38	12.03	11.43	11.17	3.20	57.5	
SCR 1920-5130	19 20 32.56	-51 30 07.2	0.184	207.4	16.09	14.12	13.09	12.13	11.54	11.35	1.99	108.3	
SCR 1924-5302	19 24 12.86	-53 02 54.0	0.180	249.9	17.16	15.22	13.48	12.60	12.08	11.84	2.62	111.1	
SCR 1925-7310	19 25 19.53	-73 10 02.9	0.205	176.3	16.39	14.41	12.73	11.48	10.90	10.64	2.93	53.6	
SCR 1925-7844	19 25 31.91	-78 44 42.2	0.288	159.3	17.13	15.46	14.32	12.80	12.25	12.03	2.66	121.1	
SCR 1926-8744	19 26 39.60	-87 44 04.6	0.396	233.7	18.23	16.01	14.73	13.66	13.15	12.95	2.35	[194.7]	d
SCR 1926-5218	19 26 48.70	-52 18 18.2	0.494	191.2	16.97	15.22	14.39	13.54	12.96	12.86	1.68	[229.7]	d
SCR 1926-6146	19 26 30.23	-61 46 33.0	0.203	155.3	18.05	16.11	14.28	12.69	12.23	11.92	3.42	80.0	
SCR 1926-8216	19 26 48.64	-82 16 47.6	0.195	172.5	12.22	10.01	10.20	9.04	8.43	8.31	0.96	17.3	
SCR 1927-5808	19 27 00.59	-58 08 30.0	0.181	203.5	17.67	15.70	14.13	12.60	11.99	11.79	3.10	83.5	
SCR 1928-8549	19 28 51.67	-85 49 22.5	0.225	115.9	18.08	16.05	14.20	12.75	12.25	12.01	3.30	86.1	
SCR 1928-7714	19 28 49.61	-77 14 37.5	0.386	184.8	17.36	15.57	14.94	13.63	13.03	12.89	1.93	[207.5]	d
SCR 1930-6258	19 30 30.34	-62 58 39.1	0.185	204.3	16.87	15.30	14.78	13.49	12.98	12.79	1.81	[178.8]	d
SCR 1930-7638	19 30 09.03	-76 38 46.1	0.210	269.2	16.65	14.92	13.40	12.41	11.78	11.57	2.51	103.1	
SCR 1931-5840	19 31 21.57	-58 40 37.1	0.402	135.7	16.82	14.69	13.32	12.18	11.66	11.43	2.51	91.7	
SCR 1931-8502	19 31 30.28	-85 02 45.9	0.285	171.5	18.60	16.50	15.40	14.11	13.60	13.33	2.39	[228.5]	d
SCR 1932-5209	19 32 28.03	-52 09 18.9	0.198	158.1	17.42	15.45	14.12	12.94	12.41	12.21	2.51	135.0	
SCR 1932-5005	19 32 48.64	-50 05 38.9	0.257	157.5	16.87	14.51	11.99	10.75	10.11	9.85	3.76	24.4	
SCR 1934-5140	19 34 09.33	-51 40 42.1	0.233	127.2	14.76	12.97	11.96	12.09	11.55	11.07	0.89	113.9	
SCR 1934-6343	19 34 50.02	-63 43 47.3	0.201	138.8	12.12	10.83	10.11	9.58	9.14	9.07	1.24	42.5	
SCR 1935-6319	19 35 10.05	-63 19 07.8	0.184	138.0	13.03	11.99	11.50	10.88	10.46	10.38	1.12	70.7	
SCR 1936-8616	19 36 46.69	-86 16 02.3	0.180	094.8	18.67	16.42	14.04	12.57	11.99	11.75	3.85	57.2	
SCR 1936-4736	19 36 32.09	-47 36 08.5	0.264	153.2	18.16	16.31	14.95	13.71	13.13	12.91	2.60	180.2	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 1936-8104	19 36 16.09	-81 04 11.1	0.206	173.9	17.55	16.14	14.46	12.43	11.83	11.58	3.71	65.7	
SCR 1936-4826	19 36 31.54	-48 26 26.4	0.343	230.8	17.13	15.11	13.39	12.31	11.81	11.59	2.80	90.4	
SCR 1936-4816	19 36 33.29	-48 16 53.5	0.311	073.3	17.23	15.05	12.55	11.05	10.47	10.18	3.99	26.3	
SCR 1936-5535	19 36 01.80	-55 35 51.5	0.189	147.9	17.46	14.90	14.53	13.64	12.96	12.84	1.26	[228.8]	d
SCR 1936-4957	19 36 32.66	-49 57 55.5	0.224	172.6	16.76	14.51	11.97	10.81	10.21	9.94	3.70	27.2	
SCR 1937-4842	19 37 37.45	-48 42 30.9	0.189	180.6	15.71	13.67	12.69	11.91	11.27	11.11	1.76	102.9	
SCR 1937-5147	19 37 32.28	-51 47 46.4	0.183	138.4	13.36	11.99	11.29	10.98	10.44	10.40	1.01	79.8	
SCR 1937-5800	19 37 51.70	-58 00 51.0	0.193	164.1	11.40	10.11	9.38	9.47	9.00	8.86	0.64	47.5	
SCR 1938-7829	19 38 54.67	-78 29 20.0	0.192	163.8	17.16	15.44	13.59	11.80	11.19	10.96	3.64	47.1	
SCR 1938-5048	19 38 03.48	-50 48 39.7	0.244	261.0	17.90	15.91	14.11	12.79	12.29	12.03	3.12	95.7	
SCR 1939-6757	19 39 22.59	-67 57 35.1	0.186	201.6	18.41	16.42	14.89	13.58	13.13	12.83	2.84	156.7	
SCR 1940-6349	19 40 14.52	-63 49 14.4	0.186	225.6	17.44	15.60	14.58	13.45	12.84	12.63	2.16	186.8	
SCR 1940-5205	19 40 16.59	-52 05 32.0	0.187	152.2	18.32	16.29	14.31	13.06	12.53	12.30	3.22	102.4	
SCR 1940-6330	19 40 30.12	-63 30 53.5	0.250	187.1	18.62	16.20	13.54	11.74	11.13	10.82	4.46	27.5	
SCR 1941-4752	19 41 00.48	-47 52 08.3	0.227	151.9	18.23	16.14	13.95	12.40	11.84	11.57	3.73	56.2	
SCR 1942-7431	19 42 33.42	-74 31 08.3	0.202	155.8	18.06	16.08	14.55	13.25	12.69	12.53	2.83	135.6	
SCR 1942-4921	19 42 57.98	-49 21 15.8	0.308	241.9	16.14	13.85	11.83	10.76	10.19	9.95	3.09	34.8	
SCR 1942-4854	19 42 15.47	-48 54 59.6	0.233	156.0	17.20	15.29	13.21	12.14	11.56	11.32	3.14	69.1	
SCR 1943-7716	19 43 47.99	-77 16 08.5	0.215	156.8	18.06	16.07	14.28	12.69	12.14	11.92	3.38	78.9	
SCR 1944-4751	19 44 00.44	-47 51 10.3	0.263	269.4	18.46	16.32	14.10	12.42	11.88	11.64	3.90	53.9	
SCR 1944-7700	19 44 24.15	-77 00 22.4	0.187	179.4	17.52	15.49	13.97	12.70	12.13	11.87	2.78	99.2	
SCR 1946-7713	19 46 53.00	-77 13 46.2	0.241	179.1	16.46	14.76	13.55	12.27	11.70	11.48	2.49	99.8	
SCR 1947-7329	19 47 03.52	-73 29 53.9	0.214	148.3	17.19	15.19	13.12	11.98	11.34	11.12	3.21	59.0	
SCR 1947-7646	19 47 14.69	-76 46 55.3	0.235	133.8	17.58	15.78	13.35	11.39	10.78	10.49	4.39	27.0	
SCR 1948-5914	19 48 58.76	-59 14 23.2	0.415	151.7	16.59	14.63	12.39	11.11	10.57	10.27	3.52	35.9	
SCR 1948-7604	19 48 10.94	-76 04 55.5	0.261	309.9	18.47	16.28	14.13	12.40	11.83	11.53	3.88	50.3	
SCR 1949-7110	19 49 46.01	-71 10 41.2	0.205	135.3	16.30	14.33	13.23	12.46	11.87	11.67	1.87	131.3	
SCR 1953-7220	19 53 35.96	-72 20 03.8	0.200	137.9	12.18	10.95	10.70	9.93	9.40	9.26	1.03	35.8	
SCR 1953-5037B	19 53 41.06	-50 39 16.0	0.171	142.9	19.52	17.40	14.90	12.85	12.24	11.90	4.55	45.0	a c
SCR 1953-5037A	19 53 42.39	-50 37 54.5	0.181	144.3	16.11	13.91	11.94	10.72	10.12	9.85	3.19	31.6	a
SCR 1954-8552	19 54 43.50	-85 52 29.0	0.230	166.4	17.37	15.53	13.69	12.41	11.84	11.66	3.12	82.7	
SCR 1954-5216	19 54 32.27	-52 16 39.1	0.193	174.4	17.92	15.58	13.98	12.71	12.11	11.84	2.88	87.2	
SCR 1954-6737	19 54 53.97	-67 37 45.0	0.194	183.7	18.39	16.36	15.03	13.77	13.25	13.04	2.59	189.0	
SCR 1955-6228	19 55 32.61	-62 28 21.9	0.256	160.6	15.73	13.64	11.93	10.84	10.26	9.99	2.81	41.1	
SCR 1956-8228	19 56 41.41	-82 28 12.2	0.185	237.9	13.35	12.13	11.54	10.81	10.22	10.15	1.32	64.9	
SCR 1956-6052	19 56 40.10	-60 52 55.8	0.335	169.5	17.38	15.49	14.07	12.98	12.44	12.18	2.52	134.3	
SCR 1957-7032	19 57 14.55	-70 32 05.2	0.279	202.1	18.51	16.21	13.93	12.71	12.20	11.86	3.50	70.8	
SCR 1958-5609	19 58 31.26	-56 09 10.6	0.494	161.9	17.59	15.55	14.40	13.29	12.76	12.52	2.26	[169.0]	d
SCR 1958-8000A	19 58 46.70	-80 00 44.5	0.183	149.1	15.28	13.58	13.50	11.41	10.81	10.62	2.17	61.3	a
SCR 1958-8000B	19 58 44.18	-80 00 45.8	0.192	145.8	19.54	17.85	16.28	14.05	13.60	13.28	3.80	133.4	a c
SCR 1959-6236	19 59 33.55	-62 36 13.4	0.189	288.7	17.48	15.36	12.68	11.07	10.49	10.23	4.29	24.3	
SCR 1959-5549	19 59 58.76	-55 49 29.6	0.413	169.9	16.18	13.95	11.82	10.46	9.87	9.62	3.49	25.0	
SCR 2000-6734	20 00 41.99	-67 34 32.5	0.220	173.9	11.81	10.31	9.79	9.55	9.04	8.90	0.76	36.0	
SCR 2002-6356	20 02 42.83	-63 56 02.0	0.213	167.5	16.40	14.51	12.87	11.99	11.45	11.17	2.52	84.6	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 2002-5824	20 02 53.97	-58 24 17.1	0.216	136.3	11.66	10.35	9.61	9.28	8.81	8.69	1.07	35.3	
SCR 2003-6217	20 03 39.83	-62 17 34.2	0.245	175.9	18.25	16.35	14.73	13.24	12.69	12.49	3.11	118.7	
SCR 2004-5408	20 04 10.06	-54 08 21.9	0.186	150.2	18.49	16.43	14.67	13.05	12.51	12.30	3.38	93.1	
SCR 2005-6548	20 05 40.70	-65 48 46.6	0.209	159.8	18.03	16.16	14.22	12.79	12.26	11.99	3.38	84.9	
SCR 2005-8916	20 05 30.14	-89 16 51.9	0.219	217.2	17.16	15.25	14.40	13.44	12.84	12.69	1.80	[213.7]	d
SCR 2006-6259	20 06 16.57	-62 59 50.5	0.199	129.7	13.53	12.03	10.98	10.24	9.60	9.45	1.79	46.2	
SCR 2007-7409	20 07 21.62	-74 09 51.1	0.183	210.7	14.28	13.52	13.09	12.63	12.34	12.30	0.89	167.6	
SCR 2008-8239	20 08 36.82	-82 39 16.7	0.286	145.0	15.32	13.55	11.91	10.72	10.03	9.84	2.83	39.7	
SCR 2008-7322	20 08 56.52	-73 22 48.9	0.280	187.9	18.11	16.18	14.64	13.48	12.89	12.70	2.70	155.7	
SCR 2009-6005	20 09 23.35	-60 05 43.6	0.414	154.3	18.17	15.87	13.71	12.10	11.58	11.26	3.77	46.4	
SCR 2013-5847	20 13 39.23	-58 47 15.8	0.193	161.1	18.18	16.32	14.28	12.67	12.07	11.80	3.65	67.0	
SCR 2015-7050	20 15 30.61	-70 50 47.5	0.279	174.1	18.31	16.08	14.08	13.08	12.55	12.35	3.00	113.2	
SCR 2016-7531	20 16 11.25	-75 31 04.5	0.253	081.3	17.07	14.75	12.25	10.47	9.86	9.51	4.28	16.2	
SCR 2016-7945	20 16 49.74	-79 45 53.0	0.434	128.4	16.74	16.09	15.75	15.10	15.02	14.64	0.99	[482.5]	b
SCR 2017-5715	20 17 23.47	-57 15 09.0	0.250	170.9	17.71	15.70	14.50	13.27	12.75	12.52	2.44	158.4	
SCR 2017-6711	20 17 54.18	-67 11 25.4	0.182	172.4	17.87	15.92	14.12	12.81	12.29	12.02	3.12	95.7	
SCR 2017-6438	20 17 11.01	-64 38 48.8	0.189	134.7	12.94	11.76	11.12	11.23	10.85	10.76	0.53	···	
SCR 2018-6606	20 18 28.70	-66 06 44.5	0.462	191.3	17.72	15.75	14.70	13.67	13.14	12.99	2.08	[228.0]	d
SCR 2018-4836	20 18 13.66	-48 36 51.7	0.410	147.2	17.38	15.19	13.33	12.08	11.61	11.37	3.11	69.0	
SCR 2019-4701B	20 19 36.15	-47 01 54.3	0.265	158.1	17.41	15.17	12.88	11.89	11.28	11.00	3.28	52.5	a
SCR 2020-7806	20 20 52.98	-78 06 18.7	0.276	209.2	16.03	16.09	16.12	15.92	15.60	15.68	0.17	[834.9]	b
SCR 2021-7411	20 21 16.88	-74 11 29.5	0.234	093.9	18.44	16.35	14.43	12.92	12.36	12.05	3.44	79.5	
SCR 2023-8211	20 23 20.69	-82 11 05.3	0.190	123.0	17.97	16.26	14.39	12.39	11.84	11.58	3.87	57.6	
SCR 2023-5922	20 23 39.05	-59 22 22.5	0.230	192.1	18.19	16.33	14.43	12.97	12.47	12.22	3.36	96.1	
SCR 2025-5115	20 25 09.74	-51 15 03.1	0.228	132.6	18.04	16.15	14.60	13.45	12.92	12.78	2.70	166.8	
SCR 2027-4812	20 27 08.28	-48 12 05.6	0.228	120.6	14.16	12.15	11.07	10.60	9.94	9.74	1.55	57.5	
SCR 2028-5958	20 28 54.13	-59 58 03.5	0.189	139.5	17.81	16.00	14.47	13.13	12.55	12.39	2.87	128.8	
SCR 2029-6404	20 29 54.29	-64 04 08.3	0.213	154.2	12.73	11.62	10.82	10.76	10.24	10.11	0.86	72.7	
SCR 2029-7910	20 29 45.54	-79 10 06.2	0.287	135.5	17.61	15.61	13.85	12.23	11.68	11.42	3.38	62.1	
SCR 2029-6342	20 29 57.21	-63 42 46.4	0.213	248.7	17.98	15.98	13.70	12.31	11.72	11.44	3.67	55.8	
SCR 2029-5757B	20 29 46.25	-57 57 52.8	0.314	107.8	17.45	15.34	13.54	12.38	11.79	11.56	2.96	79.0	a
SCR 2030-7950	20 30 15.94	-79 50 53.0	0.292	134.6	17.70	15.86	13.82	12.25	11.64	11.40	3.61	57.3	
SCR 2031-7807	20 31 33.08	-78 07 11.1	0.273	162.0	16.45	14.75	13.22	11.62	11.07	10.87	3.12	58.2	
SCR 2032-8000	20 32 27.40	-80 00 24.0	0.185	130.7	16.16	14.51	13.02	11.39	10.76	10.58	3.12	50.6	
SCR 2032-4948A	20 32 42.24	-49 48 49.8	0.265	179.0	17.42	15.39	13.33	12.25	11.75	11.50	3.14	75.3	a
SCR 2032-4948B	20 32 41.74	-49 48 57.2	0.270	182.4	17.15	16.77	16.73	16.63	15.87	15.88	0.15	[900.1]	a bc
SCR 2033-6411	20 33 48.40	-64 11 14.4	0.284	203.4	18.05	15.98	14.10	12.89	12.37	12.14	3.09	100.8	
SCR 2033-5748	20 33 47.93	-57 48 12.5	0.187	213.6	17.04	15.12	13.49	12.35	11.73	11.56	2.77	89.2	
SCR 2034-4850	20 34 26.74	-48 50 36.6	0.299	236.1	16.51	14.29	12.03	11.07	10.47	10.22	3.22	38.2	
SCR 2036-7021	20 36 30.47	-70 21 08.5	0.188	138.0	18.63	16.45	14.22	12.68	12.05	11.88	3.77	62.6	
SCR 2036-5131	20 36 07.32	-51 31 36.6	0.195	202.8	15.38	13.38	11.96	11.43	10.80	10.60	1.95	77.8	
SCR 2036-6454B	20 37 02.50	-64 54 42.7	0.190	153.3	17.67	15.68	13.82	12.68	12.06	11.80	3.00	88.2	a
SCR 2036-6210	20 36 56.42	-62 10 53.5	0.226	098.0	13.37	12.32	11.50	11.03	10.37	10.25	1.29	72.6	
SCR 2036-6454A	20 36 57.21	-64 54 53.3	0.197	146.0	14.96	12.54	11.40	11.14	10.44	10.28	1.41	72.7	a

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 2037-6347	20 37 37.61	-63 47 28.2	0.264	139.0	17.61	15.50	13.42	12.11	11.49	11.22	3.38	55.2	
SCR 2038-7618	20 38 32.80	-76 18 42.1	0.260	171.7	16.31	14.39	12.64	11.68	11.13	10.90	2.71	69.1	
SCR 2039-7912	20 39 59.56	-79 12 24.7	0.217	183.2	17.47	15.79	14.14	12.34	11.79	11.56	3.45	69.2	
SCR 2039-5242	20 39 28.10	-52 42 38.0	0.193	191.6	18.14	16.39	15.66	14.51	13.94	13.76	1.88	[343.6]	d
SCR 2040-6422	20 40 24.88	-64 22 16.7	0.188	150.6	15.32	13.53	12.61	12.13	11.46	11.39	1.40	123.2	
SCR 2040-7923	20 40 24.37	-79 23 51.5	0.283	023.8	16.39	14.52	13.04	11.38	10.87	10.66	3.13	51.2	
SCR 2042-5737	20 42 46.44	-57 37 15.3	0.264	142.6	15.07	13.22	11.56	9.97	9.53	9.03	3.25	22.7	
SCR 2042-7500	20 42 12.24	-75 00 57.5	0.210	284.9	16.20	14.23	12.22	11.15	10.65	10.39	3.08	46.8	
SCR 2043-6347	20 43 07.07	-63 47 04.9	0.254	134.2	17.52	15.14	12.81	11.62	11.13	10.83	3.53	43.6	
SCR 2043-7552	20 43 59.31	-75 52 45.5	0.184	118.7	12.02	10.06	9.35	8.83	8.23	8.02	1.22	26.6	
SCR 2043-6220	20 43 25.72	-62 20 52.9	0.204	191.6	12.20	10.72	9.88	9.84	9.27	9.14	0.88	44.0	
SCR 2043-7826	20 43 45.90	-78 26 56.3	0.391	147.5	18.04	16.09	14.29	12.34	11.74	11.50	3.75	54.5	
SCR 2044-7848	20 44 48.07	-78 48 34.7	0.312	135.8	17.59	15.77	13.95	12.23	11.71	11.51	3.54	64.2	
SCR 2044-6316	20 44 13.84	-63 16 46.9	0.232	118.6	18.04	16.14	14.31	13.13	12.60	12.37	3.01	119.9	
SCR 2047-6537	20 47 11.82	-65 37 34.8	0.184	122.7	17.94	15.96	14.28	13.19	12.65	12.46	2.77	136.5	
SCR 2047-5823	20 47 35.83	-58 23 46.7	0.224	167.1	15.43	13.55	12.12	10.52	9.93	9.67	3.03	32.9	
SCR 2049-7200	20 49 59.68	-72 00 44.4	0.294	215.1	17.39	15.52	13.22	11.76	11.17	11.01	3.76	46.2	
SCR 2050-7849	20 50 39.71	-78 49 31.9	0.206	194.1	17.95	16.18	14.28	12.50	11.96	11.72	3.68	66.4	
SCR 2050-8051	20 50 11.75	-80 51 51.5	0.180	154.2	13.70	12.62	12.00	11.19	10.69	10.60	1.42	79.1	
SCR 2052-6607	20 52 39.29	-66 07 20.6	0.249	232.6	18.17	16.05	14.91	14.07	13.56	13.33	1.98	[270.9]	d
SCR 2052-5202	20 52 30.81	-52 02 55.2	0.219	139.7	17.45	15.46	13.49	12.12	11.50	11.24	3.34	57.8	
SCR 2053-6017	20 53 11.66	-60 17 27.4	0.198	159.5	15.16	13.95	13.34	12.29	11.74	11.64	1.66	116.3	
SCR 2055-6525	20 55 11.60	-65 25 26.2	0.257	136.6	16.33	14.32	12.80	11.89	11.26	11.06	2.43	80.4	
SCR 2057-6358A	20 57 56.20	-63 58 42.2	0.187	139.9	16.77	15.28	13.46	12.77	12.11	11.54	2.51	102.0	a
SCR 2057-6358B	20 57 56.20	-63 58 42.2	...	...	...	...	...	12.33	11.75	11.66	...	...	a c
SCR 2057-6358C	20 58 30.06	-64 00 59.4	0.130	138.7	18.48	16.38	14.37	12.40	11.77	11.48	3.97	46.7	a c
SCR 2058-5550	20 58 18.39	-55 50 00.9	0.252	047.9	18.12	16.06	13.93	12.52	11.98	11.75	3.54	68.3	
SCR 2059-5646	20 59 41.24	-56 46 05.2	0.200	152.8	16.98	15.09	13.32	12.09	11.42	11.18	3.00	66.0	
SCR 2059-6201	20 59 16.17	-62 01 21.4	0.209	131.3	18.29	16.21	14.26	12.44	11.85	11.58	3.77	54.3	
SCR 2059-6218	20 59 10.29	-62 18 39.0	0.187	163.7	14.44	13.51	12.93	12.18	11.79	11.80	1.32	138.2	
SCR 2100-5804B	21 00 33.15	-58 04 09.1	0.181	116.1	19.41	17.49	15.79	14.07	13.52	13.28	3.42	147.0	a c
SCR 2100-5804A	21 00 34.93	-58 04 17.5	0.186	117.6	16.83	14.81	13.53	12.13	11.53	11.33	2.68	80.5	a
SCR 2101-6624	21 01 15.50	-66 24 02.8	0.180	113.4	14.58	12.72	11.64	10.57	9.90	9.75	2.15	49.2	
SCR 2104-5229	21 04 00.58	-52 29 43.5	0.400	233.7	17.59	15.41	14.42	13.43	12.94	12.76	1.98	[207.2]	d
SCR 2105-8530	21 05 51.15	-85 30 57.2	0.209	110.7	15.10	12.74	11.53	11.21	10.61	10.39	1.53	75.6	
SCR 2106-7822	21 06 26.35	-78 22 03.0	0.328	181.2	18.05	16.24	14.01	12.08	11.56	11.27	4.16	43.3	
SCR 2110-7459	21 10 51.32	-74 59 12.3	0.328	136.2	14.15	12.16	10.95	10.10	9.54	9.27	2.06	40.8	
SCR 2111-4707	21 11 24.61	-47 07 02.6	0.188	195.5	16.04	13.70	11.87	11.11	10.49	10.25	2.59	49.0	
SCR 2112-5428B	21 12 56.65	-54 28 06.8	0.152	117.0	17.08	15.27	13.49	10.15	9.54	9.32	5.12	13.5	a c
SCR 2112-7525	21 12 36.51	-75 25 18.4	0.193	148.0	16.01	14.03	12.59	12.10	11.47	11.25	1.94	105.7	
SCR 2112-5428A	21 12 55.12	-54 28 14.3	0.209	095.3	13.37	11.32	10.57	9.61	8.99	8.80	1.71	35.6	a
SCR 2112-7231	21 12 50.73	-72 31 44.4	0.306	130.5	18.04	16.05	13.93	12.46	11.93	11.74	3.59	68.0	
SCR 2114-5515	21 14 54.59	-55 15 07.6	0.203	104.2	12.75	11.49	10.85	10.38	9.91	9.76	1.11	54.4	
SCR 2118-4721	21 18 10.27	-47 21 07.0	0.269	143.0	16.53	14.64	12.49	11.55	11.05	10.81	3.09	58.6	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 2120-7551	21 20 24.91	-75 51 28.6	0.185	134.5	17.70	15.54	13.16	11.67	11.06	10.74	3.88	35.4	
SCR 2123-7110	21 23 15.89	-71 10 00.4	0.194	096.4	12.17	11.48	11.14	10.41	9.99	9.95	1.07	52.2	
SCR 2123-4832	21 23 10.91	-48 32 50.9	0.188	177.7	14.01	12.28	11.32	11.09	10.50	10.37	1.19	78.4	
SCR 2124-5417	21 24 00.70	-54 17 26.3	0.271	182.7	16.83	14.79	13.87	12.96	12.38	12.21	1.83	[168.2]	d
SCR 2124-6311	21 24 49.49	-63 11 35.2	0.190	157.2	12.33	10.64	10.08	9.35	8.67	8.62	1.30	31.6	
SCR 2125-5350	21 25 42.47	-53 50 33.2	0.224	144.0	17.77	15.93	14.16	12.89	12.33	12.12	3.03	105.6	
SCR 2126-5246	21 26 45.33	-52 46 38.7	0.207	118.8	16.26	14.24	12.17	10.79	10.19	9.93	3.45	30.2	
SCR 2130-7733	21 30 02.90	-77 33 23.9	0.186	128.6	15.73	14.12	12.48	10.98	10.41	10.18	3.14	42.7	
SCR 2131-8038	21 31 17.09	-80 38 37.2	0.302	167.0	15.90	14.60	13.81	12.67	12.08	11.94	1.93	[130.8]	d
SCR 2131-7119	21 31 04.50	-71 19 43.2	0.198	167.5	16.07	14.24	12.82	12.16	11.60	11.38	2.09	110.4	
SCR 2134-8027	21 34 57.74	-80 27 02.4	0.187	143.5	14.35	13.47	12.91	12.09	11.71	11.64	1.38	125.4	
SCR 2134-5400	21 34 59.45	-54 00 21.5	0.197	150.9	18.16	16.18	14.37	12.91	12.33	12.10	3.27	89.9	
SCR 2136-7819	21 36 41.34	-78 19 11.5	0.311	135.8	18.37	16.39	14.99	13.39	12.91	12.68	3.00	134.9	
SCR 2136-5153	21 36 53.25	-51 53 52.6	0.187	224.8	17.62	15.60	14.24	13.03	12.47	12.30	2.57	134.8	
SCR 2140-7417	21 40 45.94	-74 17 19.2	0.366	110.1	18.43	16.25	14.09	12.40	11.85	11.59	3.84	52.9	
SCR 2142-8125	21 42 23.58	-81 25 43.4	0.309	162.8	18.07	16.20	14.64	13.47	13.00	12.79	2.72	167.3	
SCR 2142-6412	21 42 35.22	-64 12 56.9	0.248	107.7	17.70	15.67	13.33	12.12	11.54	11.26	3.56	54.5	
SCR 2144-5539	21 44 12.85	-55 39 40.8	0.209	140.9	18.23	16.34	15.01	13.85	13.26	13.12	2.49	209.0	
SCR 2151-6154	21 51 59.01	-61 54 07.4	0.362	160.8	18.05	15.80	14.04	12.97	12.45	12.25	2.84	115.1	
SCR 2151-8604	21 51 37.35	-86 04 33.3	0.454	192.7	16.56	14.48	13.57	12.74	12.23	12.03	1.74	[160.5]	d
SCR 2152-5448	21 52 10.66	-54 48 28.3	0.292	081.1	18.09	15.88	13.93	12.53	11.93	11.69	3.35	68.3	
SCR 2153-6122	21 53 04.06	-61 22 11.4	0.248	120.8	17.73	15.48	12.99	11.64	11.07	10.78	3.84	37.1	
SCR 2153-7422	21 53 33.81	-74 22 23.4	0.209	102.6	17.62	15.63	13.41	12.04	11.47	11.18	3.59	51.7	
SCR 2154-5502	21 54 15.40	-55 02 05.4	0.194	132.3	17.75	15.26	13.71	12.35	11.77	11.52	2.91	72.3	
SCR 2154-4754	21 54 02.53	-47 54 02.3	0.190	069.3	16.46	14.32	12.00	10.71	10.13	9.84	3.61	26.9	
SCR 2154-7346	21 54 08.98	-73 46 13.0	0.378	160.7	16.85	14.84	12.86	11.60	11.17	10.88	3.24	54.6	
SCR 2154-5345	21 54 42.09	-53 45 27.3	0.184	122.6	16.49	14.53	12.91	12.04	11.48	11.25	2.50	87.9	
SCR 2155-7330	21 55 47.49	-73 30 24.3	0.459	202.0	15.77	13.97	11.85	10.59	10.05	9.78	3.38	31.5	a
SCR 2158-7809	21 58 20.16	-78 09 08.9	0.267	117.2	17.52	15.84	13.68	11.98	11.43	11.16	3.86	48.4	
SCR 2159-7505	21 59 52.26	-75 05 26.4	0.321	132.3	16.85	14.98	12.67	11.27	10.69	10.41	3.71	35.2	
SCR 2200-7342	22 00 26.01	-73 42 08.4	0.182	134.4	15.84	13.98	12.74	11.83	11.16	11.05	2.15	90.4	
SCR 2200-5051	22 00 21.47	-50 51 22.4	0.260	125.8	17.69	15.83	13.96	12.59	12.10	11.85	3.24	86.1	
SCR 2200-7602	22 00 08.96	-76 02 49.2	0.254	089.2	16.24	14.40	12.99	11.86	11.30	11.09	2.53	81.1	
SCR 2201-8012	22 01 43.56	-80 12 46.2	0.346	220.9	16.44	14.68	13.82	12.50	11.95	11.74	2.18	124.6	
SCR 2201-6154	22 01 54.38	-61 54 48.3	0.186	178.4	14.55	13.09	12.39	12.03	11.48	11.34	1.05	[119.1]	d
SCR 2202-7339	22 02 03.55	-73 39 34.3	0.204	114.6	17.63	15.60	13.83	12.52	11.96	11.70	3.08	81.2	
SCR 2203-4949	22 03 13.65	-49 49 07.5	0.185	127.5	18.10	16.20	14.71	13.24	12.74	12.53	2.96	131.1	
SCR 2204-7401	22 04 59.09	-74 01 42.3	0.268	130.1	17.21	15.54	14.72	13.79	13.13	13.02	1.76	[236.9]	d
SCR 2205-7839	22 05 11.83	-78 39 44.8	0.204	129.1	16.62	14.73	12.56	11.33	10.74	10.46	3.40	41.1	
SCR 2207-7149	22 07 37.61	-71 49 28.3	0.188	126.5	13.85	12.08	11.17	10.46	9.78	9.61	1.62	51.0	
SCR 2207-8418	22 07 44.89	-84 18 54.0	0.185	150.8	17.64	15.59	14.28	13.14	12.59	12.43	2.46	150.7	
SCR 2210-6429	22 10 32.57	-64 29 48.2	0.222	113.7	18.16	16.08	14.38	13.50	12.98	12.73	2.59	165.6	
SCR 2211-5024	22 11 45.98	-50 24 31.7	0.194	116.4	16.12	14.14	13.04	11.65	10.99	10.83	2.48	69.1	
SCR 2212-4706	22 12 17.72	-47 06 15.2	0.184	168.5	18.31	16.24	14.24	12.29	11.65	11.38	3.95	45.4	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 2212-7337	22 12 05.45	-73 37 17.2	0.419	122.9	17.43	15.31	12.89	11.39	10.85	10.48	3.92	31.5	
SCR 2212-5946	22 12 03.38	-59 46 51.1	0.186	196.7	17.07	15.06	13.53	12.71	12.16	11.93	2.35	126.1	
SCR 2215-7039	22 15 54.47	-70 39 09.4	0.200	131.3	18.49	16.32	14.94	13.61	13.04	12.80	2.70	152.9	
SCR 2215-7025	22 15 02.91	-70 25 56.4	0.199	138.3	16.05	14.05	12.26	11.29	10.66	10.39	2.76	51.1	
SCR 2216-4907	22 16 19.11	-49 07 53.2	0.183	111.5	15.36	13.54	12.21	10.85	10.20	10.02	2.69	45.4	
SCR 2218-5310A	22 18 43.77	-53 10 26.0	0.190	095.3	12.19	11.07	10.19	10.24	9.73	9.61	0.83	61.1	a
SCR 2218-5310B	22 18 46.17	-53 10 53.8	0.191	095.9	17.37	15.15	13.44	12.53	11.94	11.70	2.62	96.6	a
SCR 2219-5359	22 19 55.35	-53 59 01.7	0.194	109.0	17.76	15.57	13.63	12.44	11.84	11.58	3.13	72.4	
SCR 2221-7346	22 21 36.44	-73 46 51.0	0.245	189.7	16.81	15.09	14.28	13.59	13.02	12.89	1.50	[242.5]	d
SCR 2222-6146	22 22 40.59	-61 46 16.4	0.207	172.3	18.39	16.32	15.48	14.51	14.01	13.74	1.81	[342.6]	d
SCR 2223-7405	22 23 14.46	-74 05 42.8	0.245	119.9	15.75	13.81	12.25	11.30	10.65	10.45	2.51	58.9	
SCR 2224-7242	22 24 51.58	-72 42 00.0	0.189	250.1	15.80	13.80	11.79	10.46	9.87	9.57	3.34	26.9	
SCR 2224-5014	22 24 27.72	-50 14 08.6	0.210	256.7	17.99	15.83	14.13	13.19	12.70	12.46	2.64	140.9	
SCR 2226-5246	22 26 58.56	-52 46 12.9	0.182	147.8	16.03	14.02	12.26	10.83	10.26	10.02	3.19	35.6	
SCR 2228-6952	22 28 22.64	-69 52 18.8	0.209	129.5	15.83	13.66	12.52	12.17	11.50	11.35	1.49	121.2	
SCR 2228-5843	22 28 24.87	-58 43 49.2	0.192	165.2	18.31	16.45	14.44	13.63	13.13	12.94	2.82	177.2	
SCR 2228-7334	22 28 19.43	-73 34 50.7	0.245	150.3	14.50	12.36	10.77	9.89	9.32	9.06	2.47	30.9	
SCR 2228-6645	22 28 34.59	-66 45 54.9	0.182	115.0	17.01	14.87	13.23	12.16	11.58	11.34	2.71	79.3	
SCR 2230-7825	22 30 07.37	-78 25 08.8	0.184	207.2	17.28	15.39	14.15	12.87	12.29	12.08	2.52	125.4	
SCR 2230-7442	22 30 19.24	-74 42 28.8	0.211	155.0	17.65	15.84	14.91	14.03	13.47	13.30	1.81	[281.9]	d
SCR 2230-5244	22 30 27.95	-52 44 29.1	0.369	125.7	19.02	16.34	···	11.85	11.24	10.91	4.50	24.6	
SCR 2230-5743	22 30 20.20	-57 43 30.0	0.186	150.6	11.84	10.65	9.96	9.58	9.07	8.98	1.07	40.4	
SCR 2233-5858	22 33 32.94	-58 58 13.6	0.191	292.5	16.42	14.33	12.68	10.93	10.41	10.13	3.40	33.3	
SCR 2234-5313	22 34 27.19	-53 13 39.3	0.219	125.9	17.96	15.82	15.32	14.53	13.99	13.77	1.29	[349.8]	d
SCR 2235-7718	22 35 33.91	-77 18 05.9	0.225	114.3	17.47	15.51	13.39	12.15	11.53	11.26	3.36	59.2	
SCR 2235-6620	22 35 23.52	-66 20 25.4	0.206	097.2	16.04	13.80	12.71	12.32	11.75	11.57	1.49	134.6	
SCR 2237-6238B	22 37 56.38	-62 38 01.8	0.191	127.4	15.66	13.67	12.14	11.37	10.76	10.60	2.30	69.6	a
SCR 2237-7039	22 37 49.60	-70 39 53.0	0.181	119.3	17.68	15.70	13.83	12.49	11.90	11.65	3.21	75.2	
SCR 2238-4936	22 38 01.57	-49 36 56.0	0.241	128.3	18.26	16.05	15.16	14.47	13.82	13.75	1.58	[359.2]	d
SCR 2241-6333	22 41 53.42	-63 33 27.8	0.197	104.7	17.68	15.59	13.60	12.52	11.93	11.74	3.08	83.3	
SCR 2241-4943	22 41 38.57	-49 43 27.2	0.210	229.1	13.03	11.09	9.86	9.59	8.94	8.71	1.50	34.7	
SCR 2241-6119A	22 41 44.36	-61 19 31.2	0.184	124.0	15.64	13.65	11.70	10.21	9.61	9.35	3.44	23.2	a
SCR 2241-6119B	22 41 43.67	-61 19 39.4	0.162	117.6	20.65	18.21	15.77	12.64	12.05	11.68	5.57	27.8	a c
SCR 2242-5554	22 42 47.38	-55 54 02.2	0.225	135.0	16.73	14.76	12.78	11.47	10.93	10.66	3.28	47.0	
SCR 2242-5103	22 42 10.90	-51 03 28.0	0.182	225.8	12.78	10.98	9.44	9.20	8.66	8.36	1.78	29.2	
SCR 2242-7919	22 42 32.13	-79 19 53.3	0.182	130.5	15.49	13.45	12.04	11.17	10.58	10.32	2.29	60.0	
SCR 2247-8852	22 47 35.26	-88 52 37.6	0.197	119.4	16.45	14.92	13.92	13.08	12.43	12.34	1.85	172.3	
SCR 2247-5003	22 47 04.22	-50 03 47.2	0.180	118.3	17.24	15.77	14.81	14.34	13.80	13.60	1.42	[337.2]	d
SCR 2249-6324	22 49 47.14	-63 24 37.9	0.454	174.0	18.26	16.27	15.49	14.69	14.04	13.95	1.58	[393.6]	d
SCR 2252-6905	22 52 19.20	-69 05 47.7	0.261	102.1	16.83	14.83	12.39	10.93	10.31	10.02	3.89	26.0	
SCR 2254-7211	22 54 06.09	-72 11 27.6	0.284	131.7	17.16	15.11	12.92	11.61	11.03	10.76	3.50	43.9	
SCR 2254-8712	22 54 21.28	-87 12 51.8	0.401	115.6	16.11	14.13	12.29	11.10	10.53	10.29	3.03	44.1	
SCR 2254-7325	22 54 24.22	-73 25 58.4	0.233	085.1	16.84	14.82	12.89	11.75	11.24	10.97	3.07	60.1	
SCR 2255-5120A	22 55 43.88	-51 20 05.6	0.335	227.1	16.12	13.88	12.42	11.49	11.00	10.75	2.38	69.7	a

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ ($^\circ$)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 2255-5120B	22 55 43.86	-51 19 48.2	0.263	228.9	19.43	17.38	15.86	13.72	13.27	12.96	3.66	112.6	a c
SCR 2258-5449	22 58 09.45	-54 49 32.3	0.261	131.8	16.69	14.56	12.97	11.59	11.04	10.80	2.97	54.8	
SCR 2302-5630	23 02 36.09	-56 30 43.5	0.217	138.8	18.26	16.37	14.65	13.12	12.65	12.38	3.25	108.2	
SCR 2303-5251	23 03 54.47	-52 51 08.3	0.202	131.5	16.02	13.92	12.44	11.30	10.63	10.42	2.62	52.9	
SCR 2304-6855	23 04 24.63	-68 55 11.6	0.234	085.7	11.95	10.09	9.29	8.80	8.29	8.14	1.28	28.2	
SCR 2304-6750	23 04 49.96	-67 50 10.5	0.199	138.7	12.73	10.98	10.43	9.72	9.17	9.02	1.26	38.8	
SCR 2305-7116	23 05 22.68	-71 16 17.0	0.183	135.0	12.67	10.93	10.41	9.62	9.04	8.89	1.31	35.7	
SCR 2305-7729	23 05 01.93	-77 29 12.8	0.429	193.7	17.31	15.73	14.89	13.81	13.30	13.17	1.92	[238.6]	d
SCR 2310-6108	23 10 39.06	-61 08 02.8	0.182	076.5	13.86	11.72	10.52	9.99	9.28	9.09	1.72	39.9	
SCR 2311-5434	23 11 34.18	-54 34 39.9	0.217	156.4	15.75	13.82	11.72	10.61	9.93	9.71	3.22	30.8	
SCR 2312-7941	23 12 26.27	-79 41 32.3	0.279	113.1	16.65	14.68	12.95	11.80	11.21	11.00	2.88	65.4	
SCR 2314-5024	23 14 56.58	-50 24 54.6	0.252	148.0	17.13	15.13	14.18	13.19	12.60	12.40	1.94	[177.9]	d
SCR 2317-5140	23 17 08.91	-51 40 19.6	0.446	192.1	17.04	15.01	13.71	12.82	12.25	12.04	2.19	[139.4]	d
SCR 2318-5527	23 18 29.01	-55 27 10.8	0.197	139.0	15.90	14.27	13.62	12.84	12.22	12.10	1.43	[155.2]	d
SCR 2318-7300	23 18 40.09	-73 00 48.9	0.196	135.2	17.81	15.93	14.17	13.15	12.64	12.40	2.78	136.1	
SCR 2319-7137	23 19 21.61	-71 37 37.9	0.249	100.1	18.29	16.12	13.64	12.68	12.09	11.82	3.44	74.2	
SCR 2320-4941	23 20 07.73	-49 41 33.9	0.191	223.1	17.38	15.37	14.48	13.59	13.02	12.83	1.78	[227.7]	d
SCR 2323-5345	23 23 18.95	-53 45 06.0	0.209	205.4	17.01	15.15	14.08	12.77	12.17	12.01	2.39	129.2	
SCR 2325-8057	23 25 52.91	-80 57 40.7	0.201	106.9	16.55	14.45	12.09	10.85	10.26	9.98	3.60	29.2	
SCR 2327-8000	23 27 33.50	-80 00 10.9	0.200	106.4	15.76	14.42	13.76	13.40	12.89	12.81	1.02	[215.4]	d
SCR 2329-8758	23 29 04.03	-87 58 06.6	0.429	111.6	15.79	14.48	13.44	12.70	12.11	11.96	1.78	[144.5]	d
SCR 2333-7923A	23 33 47.61	-79 23 49.3	0.394	101.4	16.74	14.91	13.85	13.23	12.61	12.39	1.68	[183.1]	a d
SCR 2333-6203	23 33 25.66	-62 03 54.1	0.188	103.3	17.50	15.47	14.08	13.17	12.66	12.43	2.30	162.5	
SCR 2333-7923B	23 33 51.01	-79 23 55.4	0.388	100.0	17.38	15.42	14.34	13.49	12.96	12.77	1.93	[216.2]	a d
SCR 2334-4926	23 34 32.11	-49 26 22.0	0.207	111.6	15.02	12.86	11.79	11.31	10.65	10.50	1.54	80.9	
SCR 2334-4832	23 34 51.58	-48 32 48.9	0.182	158.0	15.41	13.81	13.17	12.68	12.14	11.95	1.13	[146.8]	d
SCR 2335-6946	23 35 37.29	-69 46 01.3	0.186	096.8	16.91	14.85	12.89	11.43	10.76	10.52	3.42	38.9	
SCR 2335-6433B	23 35 19.95	-64 33 22.3	0.196	099.1	16.55	14.49	12.57	11.60	11.02	10.76	2.89	57.5	a
SCR 2335-4736	23 35 24.77	-47 36 20.1	0.227	088.2	18.15	16.01	14.18	12.97	12.41	12.12	3.05	97.9	
SCR 2335-6433A	23 35 18.43	-64 33 42.4	0.196	103.1	11.80	9.97	9.02	8.64	8.02	7.86	1.33	24.5	a
SCR 2336-5007	23 36 20.85	-50 07 11.0	0.254	137.7	16.30	14.27	12.62	11.65	11.04	10.86	2.63	68.0	
SCR 2336-7614	23 36 01.58	-76 14 20.5	0.204	107.7	18.08	16.03	14.27	13.06	12.53	12.29	2.97	113.5	
SCR 2336-4918	23 36 51.67	-49 18 35.9	0.196	210.1	17.36	15.35	13.48	12.37	11.85	11.64	2.98	85.7	
SCR 2336-4741	23 36 22.29	-47 41 43.7	0.195	226.0	17.51	15.22	13.26	12.24	11.65	11.39	2.99	70.5	
SCR 2336-5231	23 36 19.51	-52 31 57.6	0.216	088.4	16.11	13.83	12.04	11.22	10.64	10.41	2.62	53.4	
SCR 2337-5857	23 37 34.98	-58 57 16.7	0.231	117.3	11.60	9.83	8.84	8.89	8.29	8.12	0.94	29.6	
SCR 2337-5630	23 37 51.88	-56 30 38.7	0.254	113.8	17.88	15.87	14.92	14.28	13.68	13.53	1.59	[326.2]	d
SCR 2337-4937	23 37 41.85	-49 37 45.2	0.198	105.2	16.79	14.97	13.34	12.38	11.82	11.62	2.60	102.6	
SCR 2338-4937	23 38 37.60	-49 37 39.1	0.251	106.4	18.43	16.45	15.67	14.83	14.25	14.00	1.62	[405.1]	d
SCR 2338-5055	23 38 53.05	-50 55 58.9	0.335	096.2	16.54	14.50	12.40	11.35	10.70	10.51	3.15	45.8	
SCR 2339-6753	23 39 02.34	-67 53 49.1	0.260	151.2	13.86	12.19	11.41	10.91	10.26	10.14	1.28	69.3	
SCR 2339-6006	23 39 26.57	-60 06 59.5	0.203	107.8	11.43	9.93	8.78	9.15	8.53	8.47	0.77	33.6	
SCR 2340-6209	23 40 02.60	-62 09 39.4	0.189	084.4	18.64	16.19	14.38	13.61	13.05	12.76	2.58	154.4	
SCR 2340-4812	23 40 53.04	-48 12 42.2	0.211	194.9	18.54	16.34	14.46	13.21	12.72	12.42	3.13	109.0	

Table Appendix (cont'd)

Name	RA (J2000)	DEC (J2000)	μ ($''$)	θ (°)	B_J	R_{59F}	I_{IVN}	J	H	K_s	$R_{59F} - J$	Est Dist (pc)	Notes
SCR 2340-4727	23 40 07.33	-47 27 54.1	0.189	109.9	14.59	12.86	12.14	11.69	11.04	10.94	1.16	100.0	
SCR 2342-6217	23 42 03.46	-62 17 25.1	0.203	202.1	16.95	15.23	14.61	13.80	13.19	13.10	1.43	[245.5]	d
SCR 2343-4816	23 43 26.39	-48 16 18.1	0.189	139.1	17.27	15.00	13.28	12.24	11.69	11.42	2.75	79.3	
SCR 2344-4810	23 44 15.87	-48 10 03.1	0.193	097.0	16.99	15.34	14.59	13.88	13.35	13.17	1.46	[271.8]	d
SCR 2344-5132	23 44 57.32	-51 32 11.3	0.202	143.8	18.15	16.33	15.44	14.48	13.94	13.72	1.85	[343.8]	d
SCR 2344-6358	23 44 09.02	-63 58 35.3	0.262	150.3	17.28	15.48	14.18	13.42	12.77	12.61	2.06	[194.3]	d
SCR 2344-7227	23 44 08.08	-72 27 48.2	0.204	127.4	17.68	15.77	14.99	14.13	13.60	13.41	1.65	[303.1]	d
SCR 2345-5132	23 45 01.72	-51 32 09.3	0.241	069.0	18.39	16.26	14.69	13.36	12.78	12.54	2.90	125.5	
SCR 2345-5207	23 45 13.81	-52 07 18.3	0.252	089.3	16.60	14.43	12.93	12.00	11.39	11.27	2.42	87.3	
SCR 2347-6144	23 47 58.53	-61 44 02.8	0.181	117.2	13.98	13.12	12.66	12.54	12.27	12.19	0.58	168.5	
SCR 2349-7719	23 49 58.14	-77 19 27.4	0.181	152.1	13.17	11.20	10.27	10.39	9.78	9.64	0.81	59.6	
SCR 2350-5942	23 50 32.79	-59 42 00.2	0.366	110.8	17.93	15.78	13.88	12.66	12.17	11.91	3.12	88.5	
SCR 2351-4813	23 51 02.65	-48 13 49.1	0.278	090.9	18.36	16.36	14.54	13.08	12.52	12.29	3.27	98.1	
SCR 2353-5853	23 53 34.91	-58 53 00.5	0.189	106.9	16.05	13.78	12.26	11.35	10.77	10.51	2.43	59.3	
SCR 2353-8205B	23 53 49.43	-82 05 01.2	0.209	068.4	14.99	13.06	11.56	10.85	10.23	9.99	2.21	54.2	a
SCR 2353-8204A	23 53 49.99	-82 04 26.7	0.216	066.9	11.90	10.40	9.26	8.97	8.33	8.09	1.42	26.8	a
SCR 2354-6023	23 54 50.63	-60 23 16.0	0.230	098.6	16.31	16.06	15.94	15.88	15.78	16.31	0.19	[1127.8]	b
SCR 2354-7216	23 54 12.83	-72 16 20.3	0.189	102.7	17.74	15.70	14.16	13.08	12.56	12.35	2.62	137.2	
SCR 2354-5027	23 54 07.83	-50 27 24.1	0.255	083.7	15.79	13.84	12.32	11.41	10.81	10.64	2.43	67.7	
SCR 2355-7308	23 55 37.44	-73 08 44.0	0.181	118.5	17.20	15.16	13.82	12.98	12.38	12.17	2.18	146.8	
SCR 2355-4916	23 55 03.99	-49 16 49.5	0.252	206.7	18.50	16.44	14.07	12.53	12.04	11.76	3.90	59.5	
SCR 2356-5818	23 56 31.13	-58 18 25.9	0.190	092.3	13.65	11.71	10.73	10.17	9.56	9.40	1.55	47.7	
SCR 2358-6206	23 58 28.78	-62 06 01.9	0.382	191.2	16.50	14.35	12.78	11.94	11.37	11.17	2.42	84.2	
SCR 2358-5811	23 58 57.54	-58 11 37.6	0.182	095.5	18.12	16.09	14.10	12.65	12.06	11.78	3.44	70.8	
SCR 2359-5957	23 59 17.88	-59 57 00.5	0.197	098.7	16.03	13.97	12.67	11.89	11.32	11.12	2.08	94.5	
SCR 2359-7403	23 59 52.41	-74 03 17.7	0.191	122.2	15.71	13.60	12.82	12.06	11.47	11.30	1.55	118.2	
SCR 2359-4845	23 59 23.46	-48 45 37.7	0.189	194.7	17.71	16.08	15.28	14.45	13.90	13.65	1.63	[321.7]	d

[a]Common proper motion companion; see Table 6.1

[b]White dwarf candidate picked from RPM diagram or noticed by colors, plate distance [in bracket] is incorrect; see Table 4.1

[c]Not detected during automated search but noticed bye eye during the blinking process

[d]Subdwarf candidate picked from RPM diagram; plate distance [in bracket] is incorrect

[e]Source not in 2MASS