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No. 34 March 1990

IUE ESA NEWSLETTER

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OBSERVATORY CONTROLLER'S MESSAGE

The present newsletter appears at a time when many important activities in the IUE Project are keeping the staff under considerable pressure. In this respect it seems that even a long duration Space project like IUE is never reaching the routine phase which is expected to develop. Activities which deserve special attention at this moment are:

1. Scheduling of the observing time recently allocated by the IUEAC for the 13th Round.

2. Preparations for the coordinated observing program with ROSAT all sky survey (RIASS).

3. Preparations for the Final Archive (IUEFA) production which is planned to start on January 2 1991.

4. Preparations for the proposal to ESA's Science Programme Committee (SPC) for extension of IUE operations through 1991.

5. Preparations for the IUE Conference which will be held in Toulouse, France from May 28 - June 1.

6. Production of ULDA version 3.0, which will bring all low resolution spectra till December 1988 to your doorstep.

Jacques van Santvoort has returned to Belgium. We wish him all the best in his future career. The heavy task of scheduling has been taken up in the meantime by Richard Monier, with whom most of you have already had the pleasure to interact. Also David Pike returned to his position at RAL, from where he will hopefully continue to work with IUE. His place as UKRA was taken up by John Fernley in September 1989. Finally in March 1990 Domitilla de Martino joined the observatory staff as R.A.

Since 1978, the IUE operational phase, has been funded (to the end of 1990) out of the mandatory ESA scientific programme budget. Last autumn the SPC studied a recommendation of the Space Science Advisory Committee (SSAC), to fund further extensions of IUE operations under an optional programme, i.e. outside the mandatory programme, with extra funding being made available by those member states interested in continuing IUE. However, there was widespread support from SPC delegations for continuing IUE operations

under the mandatory programme. Nonetheless the competition in the Science budget has become fierce, due to the problems created by delays in various other projects and the uncertainties involved in the continued increase of the ESA Science Budget in support of the Horizon 2000 program (see Space Science Newsletter, No.14, December 1989; ESA D/Science). Under these conditions it is important for the needs of the user community to be communicated to the national authorities if IUE is to be continued within ESA either as a mandatory or optional programme. Clearly if no support is forthcoming then operations will terminate at the end of this year, mid-way through the current observing round.

As part of the ongoing modernization of the IUE project many facilities which you are used to are being scrutinized in detail. To be able to improve services we have made a first -very small step- towards revising archival procedure and data delivery. This first step towards improvement is the suppression (sic.!) of one of the photowrites. In all likelihood this will shortly be followed by a more dramatic change where we will adopt the NASA format with the adequate quality control to enter also VILSPA photowrites into the GSFC photowrite browse file.

After a definition phase during the past 2 years the Final Archive preparations have moved into higher gear. Firm plans are presently developed between ESA & NASA (with participation by the SERC) on the basis that the reprocessing of the whole IUE archive will start in early 1991 and the processing will be completed before the project expires. In this respect IUE demonstrates again its uniqueness: This is the first time that such a concept -i.e. putting the data in a final Archival form before the end of the mission- is developed and planned sufficiently in advance to possibly succeed. Of course the possibility to accomplish all this will be connected with the continued funding of the project and the willingness to supply some archive support funding while the project is still operational, rather than only start funding Archival activities after the project has finished.

The other activities will be reported on future occasions and I hope to see many (if not all) of you at the IUE Conference in Toulouse co-hosted by the French CNES and the Universite Paul Sabatier.

CHANGE OF ADDRESS

ESA IUE OBSERVATORY

Dear Colleague,

Please be advised that as of January 31 st., 1990 the new postal address for VILSPA will be as follows:

ESA
Villafranca Satellite Tracking Station
P.O. Box 50727
28080-Madrid
Spain

Our telephone and FAX numbers were also changed recently. The new numbers are:

Tel: 8131100

Fax: 8131139

Electronically the IUE Observatory can be reached:

EARN : IUEHOT@DDAESA10
SPAN : 28843::IUEOBS.

Kindest regards.

PERSONNEL CHANGES

On 1st September 1989 John Fernley took up the post of UK Resident Astronomer. Prior to coming to VILSPA he was at University College London for 4½ years, latterly as undergraduate domonstrator at the Observatory. The prospect of another winter on the Observatory roof demonstrating the use of the theodolite to first-year students was a considerable factor in his decision to move to Spain. Whilst at VILSPA John hopes to be able to fulfil his duties as the UK Resident Astronomer and to continue his own work on pulsating stars.

In March 1990 Domitilla de Martino joined VILSPA as Resident Astronomer. She obtained her degree in Physics with specialisation in Astrophysics at the University of Naples, Italy. Since 1987 she worked on X-ray binary systems as Research Astronomer at the Capodimonte Astronomical Observatory in Naples. Her favourite sports are swimming, tennis, snow- and water-skiing.

SECOND ANNOUNCEMENT

EVOLUTION IN ASTROPHYSICS

IUE Astronomy in the era of new space missions

29,30,31 May and 1 June 1990

in Toulouse, France

Organized by:

- European Space Agency (ESA)
- National Aeronautics and Space Administration (NASA)
- Science and Engineering Research Council (SERC)
- Centre National d'Etudes Spatiales (CNES)

Co-sponsored by Universite Paul Sabatier

SCOPE OF THE CONFERENCE:

The International Ultraviolet Explorer (IUE) satellite, a joint undertaking of NASA, ESA and the SERC, was launched on 26 January 1978. During its twelve years of highly successful orbital operations, this satellite, the first Space Observatory available to the general user, has made unequalled contributions to almost every field of Astrophysics, from Solar System studies to Cosmology.

IUE has also amassed a treasury of nearly 70000 ultraviolet low- and high resolution spectra of about 10000 different astronomical sources. These archives, the first of their kind, can easily be accessed by any scientist who wishes to use them, for instance for statistical or temporal variability studies.

To highlight the latest results obtained, not only from recent observations but also from archival studies, a common NASA/ESA/SERC/CNES IUE conference, co-sponsored by the Paul Sabatier University, will be held from 29 May - 1 June 1990. The venue of the meeting will be the Rangueil Science Park, in the suburb of Toulouse, southern France. A picturesque city with churches and buildings dating from the Middle Ages, Toulouse is also a high technology centre where the Airbus jets, Tele-communication satellites, and the Hermes space-plane are assembled.

The conference is structured around invited review talks of 30 minutes each. Ample space and time has nevertheless been set aside for contributed poster presentations addressing more specific results. More than 100 such posters have been selected on the basis of the abstracts received by the official deadline of February 15, 1990.

PRELIMINARY PROGRAMME

Registration 28 May 14:00 - 18:00

Day 1: Tuesday, 29 May 1990

09:00 - 09:30	Opening
09:30 - 10:30	Invited Reviews: - Comparative cometology from IUE observations .....M. Festou - The Outer Solar System.....M. McGrath
10:30 - 11:30	Coffee Posters
11:30 - 12:30	Invited Reviews: - Pre-Main sequence stars.....C. Catala - Herbig-Haro Objects.....K.H. Boehm
	Lunch Break
14:00 - 15:30	Invited Reviews: - Luminous hot variables.....B. Wolf - Abundances in chemically peculiar and normal stars.....R. Faraggiana - Chromospheres in cool stars.....G. Harper
15:30 - 16:00	Coffee
16:00 - 17:00	Invited Review - Solar-like activity cycles in late type stars.....t.b.d. - Winds in cools stars.....R. Baade
17:00 - 18:00	Posters
18:30	Cocktail C.N.E.S.

Day 2: Wednesday, 30 May 1990

09:00 - 10:30	Invited Reviews: - Multi-wavelengths observations of stellar flares.....J.Butler - Eclipsing Binaries in the Ultraviolet: What we have learned about and from them with IUE.....E.F. Guinan - Symbiotic stars.....H. Nussbaumer

10:30 - 11:30 Coffee
Posters

11:30 - 12:30 Invited Reviews:
- Nucleosynthesis and SNR's.....J. Danziger
- Dwarf Novae.....F. Cordova

Lunch Break

13:30 - 14:30 Invited Reviews:
- X-ray Binaries.....J. Raymond
- Galactic and extragalactic globular clusters.....V. Castellani

14:30 - 18:00 Visit of the Airbus factory

19:00 Reception Universite Paul Sabatier.

Day 3: Thursday, 31 May 1990

09:00 - 10:30 Invited Reviews:
- Emission line objects in the Magellanic Clouds.....R. Dufour
- Supernova 1987a.....R. Gilmozzi
- Dynamics of the interstellar medium.....E. Jenkins

10:30 - 11:30 Coffee
Posters

11:30 - 12:30 Invited Reviews:
- Active galaxies.....M. Malkan
- Are quasars different ?.....R. Carswell

Lunch Break

14:00 - 15:30 Invited Reviews:
- Soviet astronomy space programme.....t.b.d.
- An update of the ESA Horizon 2000 program in Astrophysics.....R. Bonnet
- NASA astrophysics programme.....t.b.d.

15:30 - 16:00 Coffee

16:00 - 17:00 Invited Reviews:
- Japanese space programme.....Y. Tanaka
- Lyman.....G. Sonneborn

17:00 - 18:00 Posters

19:00 Concert

20:30 Conference Dinner

Day 4: Friday, 1 June 1990

09:00 - 10:00 Invited Reviews:
- The UV properties of Normal galaxies..... G. Longo
- Massive stars and star bursts.... B. Pagel

10:00 - 11:00 Coffee
Posters

11:00 - 12:30 Panel discussion:
"Role of IUE in the era of new space missions"

Lunch Break

14:00 - 15:00 Invited Reviews:
- Experience with "heroic proposals".....D. Alloin
- IUE final archive.....J. Nichols-Bohlin

15:30 - 16:00 Coffee

Conference Closed

SYMPOSIUM PROCEEDINGS

The proceedings, containing the reviews and poster papers, will be published by ESA Publications Division (ESA SP-310) in August 1990. Those who have sent an abstract in response to the first announcement will receive an author's kit for the camera-ready preparation of their manuscript. The kit will be mailed at the end of March 1990. To ensure prompt publication, the completed manuscripts should be delivered to the editor at the conference. All registered participants will receive a complimentary copy of the Proceedings and 50 reprints of their own paper(s).

REGISTRATION

A registration desk will be open at the site of the conference from 14.00 to 18.00 h on Monday 28 May and from 08.30 to 10.00 h on Tuesday 29 May. It is strongly recommended that participants register the day before the conference opens. The registration fees are 350 FF (approximately US$50) to be paid at the conference. No advance payment is required. If you have not replied to the first announcement and still wish to participate to the conference, you should contact urgently the VILSPA Observatory at the following address:

IUE Conference: *Evolution in Astrophysics*
ESA IUE Observatory
P.O. Box 50727
28080 - Madrid
Spain
Tel: (+34)-1-8131100
Tlx: 42555 VILSE
Fax: (+34)-1-8131139
e-mail: 28843::IUEOBS or IUEHOT@DDAESA10

THE VENUE AND ITS FACILITIES

The Conference Hall is located in the FIAS building on the Rangueil Science Park, in the suburb of Toulouse. Conference buses will ferry participants from the town center to the Conference at 08.30h in the morning and bring them back at 18.00h Note that the park is also served by frequent public buses (line N°68) which stop almost in front of the conference hall. A cold lunch will be served on the upper floor of the FIAS building. The lunch will cost 50 FF and will be charged directly to the participants via tickets to be bought at the registration desk. Note that there are no restaurants in the immediate surroundings of the conference hall.

A slot of approximately 1.5x1.2m will be allocated to each poster on display pannels located in a room adjacent to the conference hall. Each slot will be reserved for 48 hours after which the

poster will be dismounted. The conference room is equipped with overhead, slide and video (VHS only) projectors. Available facilities include a photocopy machine, telephone, telex and telefax. It will be possible to exchange currency at the site of the conference from 10:00 h to 13:00 h. A travel agent will also be present during the morning coffee-breaks.

More detailed information, together with a map indicating the location of the different hotels, of the Conference Hall and of the bus pick-up points will be given in the Final Programme which will be mailed to each participants on 15 April 1990.

HOTEL RESERVATION

This mailing includes an hotel reservation form. This must be filled-in and returned directly to PROMO-TOULOUSE, the local company commissioned to coordinate this activity. The hotels are expected to be heavily booked during the period of the conference and participants must return this form ***by 15 April 1990***, at the latest. ***A deposit corresponding to the fees of one night of hotel*** must be sent together with the reservation form.

For students, it is possible to book rooms at very economic conditions: 120 FF per night for a single room or 60 F if shared. Be aware that these rooms are located in the Science Park and therefore not easily accessible by public transportation after 8 p.m. Participants wishing to make use of this economic accommodation should fill-in the special Student Room Reservation Form and return it to the VILSPA observatory (***NOT*** to promo-Toulouse) at the address above by the same deadline of ***April 15, 1990***. No deposit is necessary in that case. Note that the students rooms are in limited number and will be allocated on a first come first served basis.

SOCIAL EVENTS

Several events are planned during the conference. Tuesday 29, in the evening, there will be a welcome reception with a cocktail offered by CNES. The afternoon of wednesday 30 is reserved for a visit of the Airbus jet factory followed, in the evening, by a cocktail offered by the Universite Paul Sabatier. Thursday evening, June 1, there will be a concert of French Renaissance music followed by the conference dinner.

TRAVEL TO AND ARRIVAL IN TOULOUSE

There are daily (except weekends) direct flights to Toulouse from Brussels, Frankfurt, Geneva, London, Madrid, Milan, Munich and Zurich. There are also direct flights from New-York on Monday, Wednesday and Sunday. In addition, there are flights from either CDG or Orly Paris airports at least every hour. Toulouse can also be reached by train, the journey from Paris Gare d'Austerlitz taking about 7 to 8 hours. There are several car rental offices at the airport, at the railway station or in downtown Toulouse.

WEATHER

The weather in Toulouse in June is expected to be fine and sunny, with temperatures averaging 25° C.

CALENDAR OF EVENTS:

Deadline of abstracts	15 February 1990
Second Announcement	March 1990
Final programme	April 1990
Deadline for Hotel reservation	15 April 1990
Deadline for manuscripts	29 May - 1 June 1990
Conference	29 May - 1 June 1990
Publication of Proceedings	August 1990

CHANGE IN IUE STANDARD OUTPUT PRODUCTS: PHOTOWRITES

A change has been made in the photowrites set provided to the IUE Guest Observers in VILSPA. From February 16, 1990, only two photowrites per image are made.

These two photowrites correspond to:

- Raw Image

- Raw Image with Wavelength overlay

The Photometrically Corrected image has been dropped. The photowrites will continue being supplied in photographic paper or in transparency.

Of course, the Photometrically Corrected image will remain in the magnetic tape as usual.

We hope that this measure will not affect the scientific use of the IUE data and apologize for the possible troubles that may be caused.

A. Talavera
IUE Resident Astronomer

IUE SPACECRAFT STATUS

February 1990

D. Hermoso, VILSPA

1. GENERAL

The Spacecraft continued to support science operations normally and effectively in its thirteenth year of highly successful in-orbit operations. At the end of February 1990, a total of 20121 images had been collected from 8746 celestial objects (VILSPA only).

2. BATTERIES

Continue to perform well. IUE's 25th Eclipse Season ran from January 29 through February 24. The maximum depth of discharge were 47.6% and 48.9% for batteries 1 and 2 respectively.

3. SOLAR ARRAY

The solar arrays continue to perform well despite their continued degradation. The average reduction in power produced between November 1988 and November 1989 was 3.81%. The larger than usual decrease in the solar array throughput can be attributed to the currently strong solar activity, in particular to the large proton flare of last fall. The implication is that we will have 7.56 watts less to operate the spacecraft on the average.

Power-wise, the truly unconstrained region of the sky (i.e. 2 cameras in operation simultaneously) has shrunk to $33° \leq \beta \leq 104°$. However, if only one camera is operating at a time, and the heaters which control the telescope focus are turned-off, normal observations can be carried-out up to $\beta \leq 109°$.

4. ATTITUDE CONTROL SYSTEM

The gyroscopes are performing nominally; gyro 4's drift rate is holding steady while the magnitude of gyro 5's is increasing.

5. THERMAL

OBC temperature operating limits were relaxed in April 1989 by eliminating the 55.8°C constraint zone; cooling of the OBC needs to take place only when its temperature begins glitching to 57.0°C.

The HOT OBC ßETA region has changed as follows:

MONTH	LOWER LIMIT	UPPER LIMIT
JANUARY	53.0°	97.0°
FEBRUARY	54.0°	94.0°
MARCH	58.0°	90.0°
APRIL	64.0°	82.0°
MAY	68.0°	75.0°
JUNE	68.0°	75.0°
JULY	68.0°	75.0°
AUGUST	68.0°	75.0°
SEPTEMBER	67.0°	79.0°
OCTOBER	59.0°	88.0°
NOVEMBER	55.0°	93.0°
DECEMBER	53.0°	96.0°

6. ANOMALIES

The IUE spacecraft has been performing quite well; only a few anomalies were encountered over the last six months:

- One case where a telemetry format change had to be performed in manual mode.

- One instance of bad Fine Sun Sensor data.

REVISED IUE CONSTRAINTS

by J. Clavel

Due to the intense solar activity experienced over the last few months, the IUE solar panels have been degrading more rapidly than had been anticipated.

This means that the range in Beta angles (defined as the angle between antisun and the S/C pointing directions) where sufficient power is available to operate the scientific instruments without discharging the batteries has narrowed down significantly.

$33 \leqslant \beta \leqslant 104^{\circ}$: 1 camera exposing & 1 camera being READ/PREP

$33 < \beta \leqslant 109^{\circ}$: 1 camera exposing only (i.e. full shift exp.)

These revised power constraints will be taken into account when scheduling the scientific programmes accepted for the 13th round of IUE observing starting June 1st. For what remains of the current IUE year however, several observations which had been scheduled on the basis of the old power constraints may have to be re-scheduled according to the revised rules. We are currently in the process of reviewing all observations until the end of the IUE year.

The observability of a target in the $\beta = 105\text{-}109^{\circ}$ range depends on the type of observations planned and on the power load which they will put on the S/C. Repeated exposures of a camera with simultaneous READ of the other will, in principle, not be allowed. By contrast, a full shift exposure is perfectly feasible. Guest observers whose targets happen to fall in the newly restricted regions are therefore urged to check the feasibility of their observations with Dr. Richard Monier, the VILSPA Scheduler.

ASK DR. GYRO

Q: What will IUE do if another gyro fails?

A: We have developed a backup attitude control mode using one gyro and the Fine Sun Sensor (FSS). The system should be completed this fall. At that time we will be ready to test the system on the spacecraft.

Q: What if a gyro fails tomorrow?

A: The current version of the system is capable of controlling the satellite to insure its safety. We believe that some basic science observations could be done while the full system is completed under an accelerated time scale. We have contingency plans in place to notify our IUE Guest Observers and keep them informed, to conduct the testing and implementation of the new mode, to familiarize the NASA and VILSPA IUE staff members with system modifications, and so forth.

Q: How many gyros does IUE have, and what happened to them?

A: IUE has 6 gyros, originally intended to provide 3 prime and 3 backup gyros. The first gyro to fail, Gyro #6, is stuck off. It was turned off, along with the other two backup gyros, during the spring 1979 shadow season to conserve power. When the 3 gyros were commanded to turn on again on April 18, 1979, only 2 spun up. Subsequent attempts to restart the gyro have been unsuccessful. The second gyro to fail, Gyro #1, experienced a failure in its control electronics on March 2, 1982. It continued to spin, but in an uncontrolled fashion. The next gyro failure was Gyro #2, on July 27, 1982. Finally Gyro #3 failed on August 17, 1985, bringing about the implementation of the two-gyro/FSS backup control mode.

Q: When do you think that the next gyro failure might occur?

A: Who knows? These 12-year old gyros have 5-year expected lifetimes. The engineers who designed them are learning from our experiences and can't make any predictions.

Q: Do either of the remaining gyros show signs of failing or degrading?

A: Gyro #4 is behaving fine. Gyro #5 has always had a somewhat higher drift rate than the other gyros, but still within the design specifications. Recently the drift rate of the gyro accelerated noticeably for a few weeks, then levelled out again. This caused some nervousness among the staff, but had no apparent ill effects or repercussions, aside from some poor trims.

Q: What are gyro trims anyway? The TO seems to spend a lot of time on them.

A: When the TOs trim the gyros, they are updating the calibration between the changes in spin rate of the gyros (in revolutions per second) and the actual angular motion of the spacecraft (in arcsec per sec).

Q: Why must this be updated?

A: The gyro calibrations are sensitive to temperature. The original gyro package was temperature controlled, but over the years the control thermistors that cycled the heaters to maintain constant temperature have failed. Currently all but one of the gyro heaters are left on "low" (one is on "high"). When the satellite is slewed to different beta angles, the solar illumination of the spacecraft changes and thus the thermal balance also changes. The gyro trim permits us to compensate for the thermal calibration changes. Otherwise when the pointing control is on gyros, during an acquisition or during short exposures, the target would drift slowly within the field of view (perhaps 3 to 5 arcsec in 10 minutes). An additional effect of changing beta angles is thermal flexure of the telescope tube. This causes some slow apparent motion of the target in the field of view, due to the change in the optical path. We use the gyro trims to compensate for this effect as well.

Q: How are the gyros used to control pointing?

A: Actually the on-board computer (OBC) controls the pointing. The gyros and the FSS function as motion sensors. The OBC uses this information to command reaction wheels to compensate for underdesireable spacecraft motion.

Q: Reaction wheels? What are they?

A: They are basically flywheels, used to store angular momentum. The angular momentum can then be transferred to the spacecraft.

Q: Why do the engineers "unload the wheels"?

A: The wheels are best used in a specific range of speeds, typically 200 to 800 RPM. If they are spinning too slowly, they are not effective in communicating angular momentum to the spacecraft. If they are spinning too fast, they may saturate (i.e. spin at an undefined maximum rate) and thus provide no control. We also try to keep the total angular momentum of the wheels under a reasonable limit to prevent the wheels from saturating during slews and to facilitate regaining control if the spacecraft loses attitude (i.e. loses pointing control). Finally, we keep the roll wheel under 400 RPM so that it does not causes microphonic noise on SWP camera image.

Q: What is the Fine Sun Sensor?

A: There are actually 2 Fine Sun Sensors, a prime and a redundant system. Each one consists of two sensor heads which can view +/- 32 degrees of sky along the pitch and roll directions. Two heads are aligned so that together they can view 128 degrees of sky, from a beta of 13 to 137 degrees, with a few degrees of overlap at beta 75. Each sensor has two reticles, a fine reticle and a coarse reticle, for each axis. The illumination pattern produced by sunlight illuminating the various reticles is encoded and converted to beta and roll readings.

Q: Why wasn't the FSS used on IUE from the beginning?

A: The resolution of the FSS is 15 arcsec, while the gyros give 0.25 arcsec resolution. Thus the gyros give much better information and yield better pointing control.

Q: Isn't the cruder 15 arcsec accuracy of the FSS a problem?

A: For the two-gyro/FSS mode, it has been only a small problem. The FSS is generally used to monitor roll motion, which is not as important for science observations than pitch and yaw. You can picture an FES image of the field of view, then rotating it by 15 arcsec around its center. For a star at the edge of the field 7 arcmin away, this corresponds to an apparent motion of only 0.03 arcsec. There are some minor stability problems however. After a slew, the roll motion may be rocking back and forth by a few arcmin. We have to wait a little for this motion to damp out, as the OBC brings the motion under control. In the early days of the two-gyro/FSS mode, this was a problem at low betas. However new control algorithms have greatly improved stability.

Q: How much time is typically spent waiting for this roll motion to damp out?

A: A couple of minutes per target, a little longer at low betas.

Q: Does this mean that slews take longer on the two-gyro mode?

A: Actually the slews are often shorter. One of the slew legs is along constant beta. This requires simultaneous yaw and roll motion, effectively doing two slews at once. The 3-gyro mode couldn't do this.

Q: What about FSS accuracy problems with the one-gyro mode?

A: During slews between targets, the pitch axis will be controlled using FSS data. We don't expect the 15 arcsec resolution of the FSS to be a problem for this. However when the slew is done, the spacecraft will probably bobble in the pitch direction for awhile. Even when the motion damps out, the pitch motion will still be roughly 15 arcsec. To stop that, we will switch to a different control mode which uses the FES. So we think we can work around the FSS resolution.

Q: Are there any problems with using the FSS?

A: In general it is quite reliable but we have seen some instances in which it has yielded corrupted data. This happens most frequently at the extreme beta angles which the FSS reads. The lower head can yield corrupted data below a beta of 28 degrees, so we do not normally observe there (there are power problems at such low betas as well). On rare occasions we have also seen corrupted data near 75 degrees, which is the crossover point between the lower head and the upper head.

Q: You've mentioned pitch, yaw, and roll motion - what are they?

A: Spacecraft are generally controlled in three axes, which are oriented with respect to the spacecraft itself: pitch, yaw, and roll. A way to describe this (without drawing a picture) is to think of yourself riding the satellite, with the solar arrays to your left and right and the telescope tube in front like a horse's neck and head. When the satellite pitches, the tube dips down or rises (this motion causes a change in beta angle). When the satellite yaws, it is twisting to turn left or right. When it rolls, it rotates around the optical axis of the telescope. To control in 3 axes, we need 3 pieces of motion information. Thus the 2 gyros and FSS give the required 3 pieces of information.

Q: How will you get 3 pieces of information from only 1 gyro and the FSS for the one-gyro mode?

A: The FSS actually yields 2 pieces of information, motion in both pitch and roll. So for slews from target to target, information from the FSS will be used to control the pitch and roll motions and the gyro to control in yaw.

Q: Does it matter which of the 2 remaining gyros is used for the one-gyro mode?

A: Each gyro is oriented in a different direction, described by a vector which includes components in pitch, yaw, and roll. Each gyro is thus more or less sensitive to any given axis depending on its individual vector. Of the 2 remaining gyros, Gyro #5 has more sensitivity to yaw motion than Gyro #4. So the one-gyro mode might work a little better with Gyro #5. For our simulator testing, we always try out the worst case scenario. So we've been testing the system using Gyro #4.

Q: So Murphy's Law says that Gyro #5 will fail first?

A: You've got it! Our worst case scenario for the two-gyro mode was the failure of Gyro #3, and sure enough it was #3 that failed.

Q: Is it possible to get Gyro #6 turned on again?

A: It is possible in principle. It would require an extended period of time, during which repeated turn-on and turn-off commands would be sent to it. This would have the effect of heating the gyro, hopefully reducing the vicosity of the fluid in the gyro mechanism so that it could spin again.

Q: Why haven't we tried this?

A: It is expected that this would not work unless we can raise the temperature of the gyro to about 100 C. This effort would require hours, even days, of sending commands. During one previous, much shorter attempt to turn on the gyro, a "glitch" was experienced by one of the other gyros. This raised the concern that such a heavy use of the control electronics could imperil the remaining functioning gyros. So no such extensive attempt to turn on Gyro #6 has yet been made. The option exists for the future, however.

Q: When might you try to turn on Gyro #6?

A: When we get desperate. If we are using the one-gyro mode and it works pretty well, we wouldn't try until the last gyro failed. If the one-gyro mode doesn't function well, we might try it then so that we could go back to the two-gyro mode.

Q: Will my ability to observe with IUE be pretty much the same with the one-gyro mode as with the two-gyro mode?

A: We hope so, but we know it will take more work. For instance, ALL targets will have to have guide stars with accurate relative coordinates because this will be a neccesary part of the acquisition. If the target is a solar system object, we will need an accurate ephemeris for the guide star. We will also need to use both FESs for the acquisition.

Q: Why is that?

A: As I mentioned before, control using the FSS is pretty crude, with the satellite bouncing around by 15 arcsec or so. We suspect that an FES image taken when this is going on would blur out the image sufficiently to obscure the fainter stars. This would make it hard to identify many fields or acquire fainter targets and guide stars. So what we might do is command the FES to search for a star, any star that it can track on. Then we would command the OBC to use the FES information to control pitch and yaw, with roll on the FSS.

Q: But if you are tracking on a star with the FES, how can you take an FES image at the same time?

A: We can't. That's why the second FES would be needed.

Q: Are there any problems with using 2 FESs at the same time?

A: The 2 FESs view the same field via a beam splitter. FES #2, currently in use, receives about 70 percent of the light. Thus FES #1 is less sensitive. A possible problem is that having two FESs on generates more heat in the science instrument. A test of the FESs performed during the summer of 1987 showed that the cameras warmed up by about 4 degrees. This may be expected to have some small effects, such as the known sensitivity effects with temperature (about 0.3 percent per degree C for the SWP and LWP). Any such effects should be measurable and taken into account in the calibrations and data reductions. A potentially more serious problem might occur if the temperature of the on-board computer is affected.

Q: Are there any estimates of how much the OBC might be affected?

A: The IUE spacecraft analysts looked at the data obtained during last summer's test. They estimate that the OBC might be warmed by 1 degree.

Q: Wouldn't that make observing difficult by increasing the thermal constraints?

A: Yes, if it occurs. There are several ways out. First, the analysis might be off and the OBC might not run warmer. Second, we might relax the OBC temperature constraints. Third, we may be able to come up with a clever way of using only 1 FES to obtain obsevations.

Q: Couldn't you just turn off the second FES when you don't need it?

A: In principle, yes. However we always hesitate to turn any equipment on and off any more than we must, in case the switch fails. That is why we never turn off the SWP camera.

Q: If the satellite is bouncing around by 15 arcsec, how could you get the star into the center of the aperture? Would this smear out the spectrum?

A: We would not use that control mode (pitch on FSS) to acquire the target. First, we would command the FES to track on the target and then command the OBC to use the FES information to control pointing in pitch and yaw. The FES resolution is 0.25 arcsec so that should give very stable pointing. The next problem is to move the target to the reference point without losing this fine stability. To do this we have invented a new control mode.

Q: And what is that?

A: At present, we command the OBC to keep a star at a specific, fixed x and y location in the FES. This is what we do when we "put track on" a guide star. In the new mode, we will input variable x and y values. The OBC then moves the spacecraft to follow the changing x and y values, in effect slewing the star across the field of view. This should allow us to move accurately around the FES field of view so that we can set up on the target and put it accurately at the center of the aperture for the observation.

Q: What happens, though, when the star disappears into the aperture?

A: If that happened, the control would jump back to the "sloppy" mode on the Fine Sun Sensor. Normally we will want to avoid that. So we are carefully mapping out all the holes, slots, apertures, and so forth in the aperture plate that the FES views - so that we can avoid them.

Q: But you still must get the star into the aperture. How will you do that?

A: We will have to rely on accurate positioning of the guide star. We will need to have accurate RA and declination for both the target and the guide star. Then we need to position the guide star at precisely the correct position in the FES so that the target falls accurately at the center of the aperture. In other words, every observation will be made like a "blind offset". The FES, however, has some distortion, ranging up to several arcsec near the edge of the field. We have been carefully mapping out the geometric distortion of each FES so that it can be taken into account for the guide star position.

Q: Does this mean that I will have to measure RA and declination for all my guide stars before I come to observe?

A: Quite possibly. We may be able to use guide star locations from previous scripts. But this would have to be planned in advance to insure that a good guide star is available. Having good coordinates for more than one potential guide star would probably be a good idea, in case a particular star proves to be too faint, too near the edge of the field, or happens to fall in a slot.

Q: Will I still be able to get FES counts on my target?

A: We could still take FES counts on the target when needed. This might take a few minutes, so we may or may not do this routinely for all acquisitions.

Q: Are there any other problems that you anticipate?

A: We may have some maneuver accuracy problems, based on the results of our simulator testing. So far our tests slews have not been very accurate. If this problem can't be overcome, we might have to break up long slews into a few short ones or choose a different set of slew legs which would be more accurate but require longer to slew. However we are looking into the problem and there may be a solution.

Q: So what's the bottom line? Will the one-gyro mode work?

A: I think so. The main questions which will determine how well it will work are (1) how many FESs are neccesary or desireable to use, and (2) how stable are the various modes? These two factors will affect how much extra overhead will be required to acquire a target and obtain observations. That extra overhead could range from a few minutes to many extra minutes per observation. Our first spacecraft test will help answer this. Also, with time, we may come up with clever ideas to improve the performance of the control mode and observing efficiency. This happens with any new system.

Q: You wouldn't have to turn off a gyro to test the one-gyro mode, would you?

A: No. We would command the on-board computer to ignore the information coming from one gyro and use only information from the other gyro and the FSS.

Q: What else must be done before you test the one-gyro mode on the satellite?

A: First we must test changes to the ground computer software that allow us to command and receive telemetry from both FESs. The spacecraft analysts and Resident Astronomers will test the one-gyro/two-FES system on the IUE simulator (testing of the one-gyro/one-FES system is essentially completed). We hope to finish the testing by early fall. We are also putting together detailed plans on how we conduct such a test. Finally, we may need to get permission to try out the new system on the spacecraft. This may involve a formal NASA review. If all goes well, we hope to conduct a test on the satellite sometime in the late fall.

Q: Is there some danger in conducting this test?

A: Not really. The main problem might be if we lose attitude, that is lose pointing control. To help in regaining control of the satellite if that were to happen, we have a "short version" of the current two-gyro/FSS mode which will be loaded into the backup 4 k memory of the on-board computer. If we have any problems, we could switch almost immediately to this backup system.

Q: Did you do a spacecraft test of the two-gyro mode?

A: No. A formal NASA review advised us not to. There was some concern that the two-gyro mode would cause more wear and tear on the reaction wheels (this did not turn out to be a problem). The two-gyro mode was a major change from the three-gyro mode. So they advised us to put the completed system "on the shelf" until we needed it.

Q: So why test the one-gyro mode?

A: First, there is much less risk because it is very similar to the two-gyro mode. Second, some experience with the mode would give us a chance to "fine tune" how we will run science opearations.

Q: Doesn't the simulator help you to do that?

A: To some extent. The simulator is just a program that runs on the Sigma 9 computer. It models how the IUE spacecraft would respond to various commands either directly or from the on-board computer. We have a duplicate of the OBC connected to it which sends commands and reads the "telemetry" the simulator sends to it. Like all models it has its limitations. We learned from the two-gyro mode that you can get a broad feeling about the system with the simulator but the details you can learn only by using the spacecraft itself. The two-gyro mode had some surprises for us when we first tried it on the spacecraft, and we can expect some more surprises with the one-gyro mode.

Catherine L. Imhoff
August 9, 1989

New Computing Facilities in VILSPA

R. González

As Guest Observers have already noted, the computing facilities in VILSPA have improved very much in the last months. We still keep our old and well known HP-1000 with IHAP, for those that do not want to migrate to new technologies. People that want to use "the very latest" have access to the November 89 version of Portable MIDAS (p-MIDAS).

p-MIDAS is running on a Local Area Vax Cluster formed by a Vax3600 (boot-member) and two VaxStations 3200 that provide a very good display capability. Input/Output of data is performed through Two TU81 tape units (1600 and 6250 bpi) that are attached to the Vax3600. There is no disk space problems, as visitors have a GO account with 20000 blocks of space, and there are four scratch disk areas of 250000 blocks each.

Since our p-MIDAS version includes the command to read IUE-GO tapes, you can have a look at your data as soon as they are delivered (and maybe even write the paper during your observing run!).

Apart from the Local Area Vax Cluster, other computing facilities include a MicroVaxII, that is our SPAN node, and a Vax730 containing the IUE Data Base. Specific accounts for visitors exist in all the computers. If you wish to use them during your visit to VILSPA, please do not hesitate to ask any Resident Astronomer.

E R R A T U M

Progress Report on the Time Correction for the Final FES Calibration

Michael Barylak

ESA IUE Observatory

ESA IUE Newsletter No. 33, pg. 22

Instead of

Finally the m_V (FES magnitude) (Imhoff & Wasatonic, Barylak & Gry, 1986):

$$m_V = -2.5 \log CC - 1.665e\text{-}05*CC + COLOR + K + 0.016$$

read

Finally the m_V (FES magnitude) (Imhoff & Wasatonic, 1986; Barylak & Gry, 1986):

$$m_V = -2.5 \log CC - 1.665e\text{-}05*CC + COLOR + K - 0.016$$

*Remarks: The given FORTRAN code is correct (ie. -0.016) ! The term (-1.665e-05*CC - 0.016) represents the "dead-time" correction.*

UNIFORM LOW DISPERSION ARCHIVE (ULDA)

NEW VERSION 3.0

Antonio TALAVERA
VILSPA

The IUE Uniform Low Dispersion Archive (ULDA) adventure, started in 1988 with the delivery of the Version 1.0 has been quite successful as can be seen if we look at Fig.1. If we take into account that the ULDA/USSP Version 2.0 contains some 37000 spectra, it turns out that almost all the spectra have been dearchived once in the short life (less than two years) of this project.

A new version of the ULDA/USSP will be produced and distributed to the National Host Centres before the end of May 1990. This version will contain the spectra obtained with IUE in low resolution before January 1, 1989. This means that we are adding two more years of observations to the actual contents of the ULDA, which will then amount to nearly 43000 spectra.

An important change in the IUE standard image processing (IUESIPS) has occurred in the new time span covered by the ULDA version 3.0. This change affects only the LWP camera for which a new ITF as well as a new Absolute Calibration have been implemented. This extends the calibrated range to 3300 A (remember that the calibration for the LWR and the old one for the LWP were defined only till 3200 A). This change has been implemented on December 21, 1987, and all LWP images obtained after this date have been processed in this way.

The new LWP calibration and its applicability to old data (obtained before December 21, 1987) is described in Cassatella (1988), Cassatella et al.. (1988), Oliversen (1988) and Cassatella and Gonzalez-Riestra (1989). The new LWP ITF and calibration provide fluxes which are systematically lower (about 7%) than the old ones.

To remain uniform, one of the basic principles of the ULDA, it would have been necessary to correct all "old" LWP data, either by reprocessing them with the new IUESIPS or by applying a correction algorithm to the old fluxes. The first solution would have implied a massive reprocessing of some 4000 images which is very time consuming. On the other hand, the reprocessing for the IUE Final Archive, including even newer techniques for improving the signal to noise ratio is forseen to start at the beginning of 1991 with the LWP camera and therefore an actual reprocessing of the LWP would become obsolete probably before being completed.

As for the second solution, the study by Oliversen (1988) shows that a simple correction algorithm is not applicable to all the spectra nor to the entire wavelength range.

In view of this we have decided to allow some degree of inhomogeneity in the ULDA, as a temporary solution until the Final Reprocessing is done. The spectra obtained with the LWP before . December 21, 1987 will be present in the ULDA Version 3.0 with the old ITF and Absolute Calibration. Note that the spectra belonging to that period which have for some reason been reprocessed with the new ITF and Calibration, will have the new version included in the ULDA and they will be distinguishable from the old ones because their wavelength range will extend up to 3300 A.

We hope that this inconvenience will not prevent the current "customers" of the ULDA from continuing using it, and we encourage those, IUE or not, astronomers which have never used it to become members of the "IUE ULDA/USSP club".

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Oliversen, N., 1988, IUE NASA Newsletter No. 35, p. 55

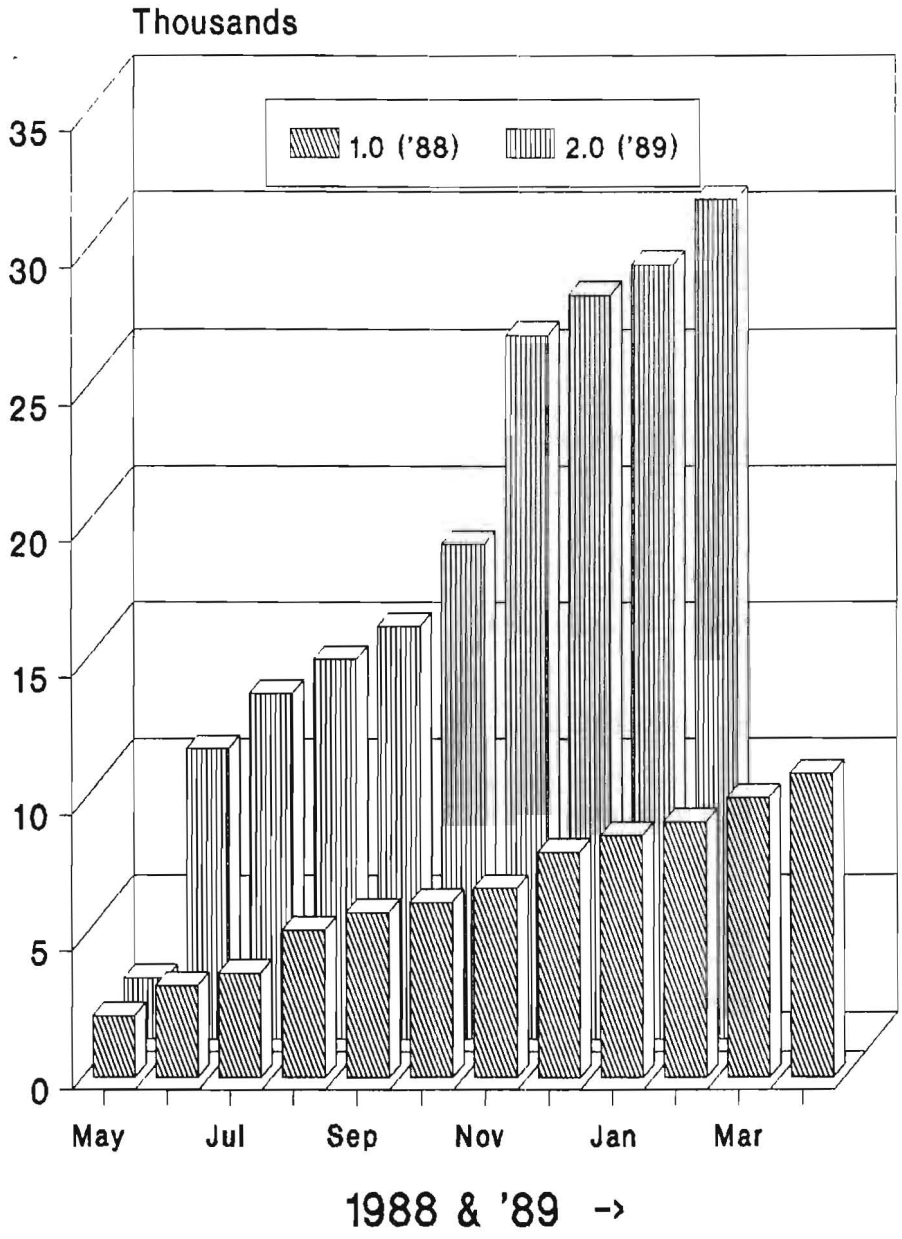
USSP dearchivals (versions 1 & 2)
(1000's of spectra)
Thousands
35
30
25
20
15
10
5
0
1.0 ('88)
2.0 ('89)
May
Jul
Sep
Nov
Jan
Mar
1988 & '89 ->

Fig. 1

ULDA NATIONAL HOST INFORMATION

The following is a list of the National Centres where the ULDA/USSP is located. We give also the Host Managers, which are the contact point for the ULDA/USSP in their respective countries.

Belgium

Host: Royal Belgian Observatory
Host Manager: Marijke Burger

Brazil

Host: Instituto Astronomico e Geofisico, Dept. Astronomia
Host Manager: Luis Arakaki

Canada

Host: DAO/CSADC
Host Manager: Andy Woodsworth

China (People's Republic of)

Host: Centre for Astrophysics & Technology, USTC
Host Manager: Fuhua Cheng, Wang Tinggui

France

Host: CDS, Observotoire de Strasbourg
Host Manager: Gerard Jasniewicz

Italy

Host: Osservatorio Astronomico di Trieste
Host Manager: Mariagracia Franchini

Netherlands

Host: Sterrewacht Leiden
Host Manager: Walter Jaffe

Nordic countries (Sweden, Norway, Denmark and Finland)

Host: Uppsala Astronomical Observatory
Host Manager: Kjell Eriksson

Spain

Host: ESA/VILSPA
Host Manager: Cornelius Driessen, Antonio Talavera

ST-ECF/ESO

Host: ST-ECF/ESO
Host Manager: Fabio Pasian

Switzerland

Host: Institut d'Astronomie, Université de Lausanne
Host Manager: Thierry Lanz

United Kingdom

Host: RAL
Host Manager: Josephine Murray, Michael Lawden

USA

Host: NASA/GSFC
Host Manager: Charleen Perry, Michael Van Steenberg

West Germany

Host: Astronomisches Institut der Universitat, Tubingen
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NASA APPROVED IUE PROGRAMS FOR THE TWELFTH YEAR

PI NAME/TITLE	INSTITUTION	PROGID
Dr. M. A'Hearn IUE Observations of Comets	U Maryland	SCLMA
Dr. T. Ake S Stars as Cooler Analogs to Ba II Stars - The Question of Binarity	CSC - ST	SCLTA
Dr. C. Ambruster Evolution in FK Comae Stars	Villanova	FKLCA
Dr. C. Ambruster Cool Dwarfs 10E-7 - 10E-8 Years Old: A Critical Gap in IUE Coverage, II	Villanova	LDLCA
Dr. L. Auer The Wind Structure of the SMC Wolf-Rayet Star HD 5980	Los Alamos	WRLLA
Dr. T. Ayres Cool-Star Betathon	Colorado CASA	LGLTA
Dr. T. Ayres Sleuthing the Dynamo II	Colorado CASA	CSLTA
Dr. T. Barker IUE Spectra of Peculiar Planetary Nebulae	Wheaton College	PPLTB
Dr. G. Basri Accretion Disks and T Tauri Stars	UC Berkeley	TTLGB
Dr. W. Blair UV Observations of the Supernova Remnant N49 in the LMC	Johns Hopkins	SNLWB
Dr. K. Bohm Ultraviolet Continuum Emission in the Peculiar Herbig-Haro Object 24A	U Washington	HHLKB
Dr. E. Bohm-Vitense The Companion of the RR Lyrae Star TV Boo	U Washington	RRLEB
Dr. E. Bohm-Vitense Dynamical Masses for V636 Sco	U Washington	BCLEB
Dr. H. Bond The Pulsating Nucleus of the Planetary Nebula Lo 4	ST ScI	PNLHB
Dr. H. Bond Ultraviolet Monitoring of Irregularly Variable Planetary Nuclei	ST ScI	HSLHB
Dr. B. Bopp Ultraviolet Observations of Extremely Active Lithium-Rich RS C Vn Stars	Toledo	RSLBB
Dr. D. Brown IUE Spectrophotometric Census of Scorpius OB2 Association B-Stars	U Washington	OBLDB
Dr. E. Brugel Miras and RV Tauri Stars: Shock Waves and Pulsation-Related Mass Loss	Colorado CASA	RVLEB

PI NAME/TITLE	INSTITUTION	PROGID
Dr. E. Brugel	Colorado CASA	HHLEB
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C IV in A Stars: Bridging the Gap Between Early and Late-Type Stars		
Dr. F. Bruhweiler	Catholic U.	EGLFB
The Extended NLR of NGC 1068: A Test of Ionization Models		
Dr. T. Carone	U Arizona	AGLTC
Multispectral Monitoring of Markarian 509		
Dr. K. Carpenter	NASA - GSFC	LGLKC
Short Timescale Variations in the Outer Atmosphere of Gamma Crucis		
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Far-UV Low Resolution Spectroscopy of High Luminosity K and M Stars		
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Simultaneous IUE/HST-GHRS Observations of AU Mic		
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NGC 1275, High Velocity Filamentary System		
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Wolf-Rayet Stars of WN Subtype		
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A Study of the Stellar Population in Selected SO Galaxies		
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Ultraviolet Observations of a Bright Southern Quasar		
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CNO Abundance in Type I Planetary Nebulae

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The Carbon Abundance in the Super Metal Poor Galaxy GR 8

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Magellanic Cloud Cepheids

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The Mass of the Cepheid SU Cygni

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The Companion of the Cepheid Z Lac

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The Nature of Evolved Stars with Bipolar Nebulae

Dr. W. Feibelman NASA - GSFC FGLWF
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An Ultraviolet Study of S Andromedae

Dr. A. Filippenko UC Berkeley SYLAF
Ultraviolet Observations of NGC 4395, the Least Luminous and Nearest Known Seyfert 1 Nucleus

Dr. P. Frisch U Chicago ISLPF
A Nearby Interstellar Cloud Towards Orion/Eridanus

Dr. P. Frisch U Chicago IMLPF
Local Interstellar Gas. IV

Dr. C. Garmany Colorado CASA OBLCG
B Supergiants in the Large Magellanic Cloud

Dr. E. Guinan Villanova IBLEG
Stalking the Migrating Spots, Plages, and Transition-Regions on VW Cephei

PI NAME/TITLE	INSTITUTION	PROGID	
Dr. E. Guinan	Villanova	CBLEG	
Gas Dynamics, Accretion, and Evolution of Algol-type Binaries			
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The Planetary Nebula, NGC 2392, and Its Central Star			
Dr. L. Hobbs	U Chicago	IMLLH	
The Pressure of the Interstellar Medium			
Dr. J. Holberg	U Arizona	ISLJH	
An IUE Determination of Interstellar Hydrogen Columns to He-Rich Degenerates			
Dr. A. Holm	CSC - ST	CVLAH	
Searching for the White Dwarf in Dwarf Novae			
Dr. I. Howarth	Colorado JILA	OBLIH	
Coordinated UV and H-Alpha Observations of Wind Variability in O Stars			
Dr. D. Hutter	CSC - IUE	AGLDH	
Coordinated Multiwavelength Studies of Blazars			
Dr. H. Johnson	Indiana Univ.	LGLHJ	
Companions to CH Stars			
Dr. H. Johnson	Indiana Univ.	MSLHJ	
Ultraviolet Spectra and Chromospheres of S and MS Stars			
Dr. P. Judge	Colorado JILA	SRLPJ	
Cycle-Dependent Studies of Semi-Regular Giant Stars			
Dr. W. Keel	U Alabama	RGLWK	
Comparison of Nearby and Very-High-Redshift Radio Galaxies			
Dr. S. Kenyon	CFA - SAO	PMLSK	
IUE Observations of Pre-Main Sequence Accretion Disks			
Dr. R. Kirshner	Harvard	SNLRK	TARG OF OPP
Supernova Spectroscopy			
Dr. R. Kirshner	Harvard	SULRK	
Continuing Spectroscopy of SN 1987A			
Dr. R. Koch	U Pennsylvania	IBLRK	
Hot, Massive Binaries			
Dr. D. Koester	Louisiana State	DALDK	
Ultraviolet Observations of a New, Extremely Hot DA White Dwarf			
Dr. D. Leckrone	NASA - GSFC	HMLDL	
Ultraviolet Spectral Energy Distributions of Mercury-Manganese Stars			
Dr. J. Linsky	Colorado JILA	FKLJL	
Ultraviolet Observations of Two Possible FK Comae Stars			
Dr. J. Linsky	Colorado JILA	FSLJL	
A Coordinated Study of Flares and Active Regions on the BY Draconis-Type Star CC Eridani			

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Ultraviolet Study of Markarian 1126			
Dr. M. Malkan	UC LA	AGLMM	
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Dr. T. Marsh	ST ScI	CVLTM	TARG OF OPP
Evolution of the Wind in the Dwarf Nova IP Peg During Outburst			
Dr. D. Martin	Col. Astro Lab	AGLCM	
Search for Correlated UV and X-Ray Absorption in NGC 3516			
Dr. D. Massa	ARC	OBLDM	
The UV Extinction Properties of Carina Nebular Dust			
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Stellar Winds in the Hot Stars of Nearby Galaxies			
Dr. P. Massey	KPNO	OBLPM	
The Stellar Winds of the Very Early O-type Stars in NGC 346, the Youngest Cluster in the SMC			
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Observations of U Gem in Outburst			
Dr. D. Meyer	Northwestern	IMLDM	
Small-Scale Structure in the Diffuse Interstellar Medium			
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A Search for Rapid Variations in the UV Flux of PKS 2155-304 with IUE			
Dr. H. Moos	Johns Hopkins	SILWM	
How Does Io Fuel the Plasma Torus?			
Dr. H. Moos	Johns Hopkins	SSLWM	
Auroral and Diffuse Emissions from Saturn and Uranus			
Dr. H. Moos	Johns Hopkins	SJLWM	
Excitation of the Jovian Upper Atmosphere			
Dr. J. Neff	NASA - GSFC	RSLJN	
Simultaneous X-Ray and Ultraviolet Observations of Flares on RS CVn Stars			
Dr. J. Nichols-Bohlin	CSC - IUE	OBLJN	
UV and Optical Covariability of O Star Winds			
Dr. S. Parsons	CSC - ST	HCLSP	
Cool Giants and Supergiants with Hot Companions			
Dr. G. Peters	USC	IBLGP	
The Gas Stream in the Algol Binaries IT Hydrae and V393 Scorpii			
Dr G. Peters	USC	CBLGP	
UV Observations of AU Mon Through Its Long-Term Light Cycle			

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Dr. G. Peters	USC	HELGP	
Multiwavelength Observations of Equator-on "Rapid Variable" Be Stars			
Dr. R. Polidan	U Arizona	IBLRP	
Accretion Driven Outflows in the Interacting Binary V356 Sagittarii			
Dr. R. Polidan	U Arizona	DNLRP	TARG OF OPP
Slow Rise Symmetrical Outbursts in SS Cyg			
Dr. J. Raymond	CFA - SAO	ENLJR	
The Onset of Cooling in Cygnus Loop Shock Waves			
Dr. J. Raymond	CFA - SAO	CVLJR	
The Temperature Structure of V1082 Sagittarii			
Dr. G. Reichert	CSC - IUE	AGLGR	
UV and Optical Observations of Liners			
Dr. G. Reichert	CSC - IUE	EGLGR	
Simultaneous EUV and UV Observations of Active Galaxies			
Dr. R. Remillard	MIT	QSLRR	
The High Energy Spectrum of the QSO PKS 0558-504			
Dr. R. Rich	Columbia Univ.	GCLRR	
Ultraviolet Spectroscopy of Galactic Globular Clusters			
Dr. D. Sasselov	Canada	DCLDS	
Quantitative Chromospheric Diagnositcs in Cepheids: Zeta Gem			
Dr. B. Savage	U Wisconsin	HGLBS	
Halo Gas Toward Several Distant Stars			
Dr. B. Savage	U Wisconsin	IGLBS	
A Study of the Origin of Highly Ionized Interstellar Gas			
Dr. J. Shaw	U Georgia	IBLJS	
V1010 Ophiuchi			
Dr. D. Shemansky	U Arizona	SSLDS	
Observations of Hydorgen Emission from the Sunlit Atmosphere of Saturn			
Dr. D. Shemansky	U Arizona	SMLDS	
A Search for Cometesimal Derived Atmosphere on the Moon			
Dr. S. Shore	NM Inst. Tech	HALSS	
The Wind of the Herbig Ae/Be Star HD 37806			
Dr. S. Shore	NM Inst. Tech	LBLSS	
The Galactic and LMC LBV's			
Dr. S. Shore	NM Inst. Tech	WRLSS	
The Colliding Stellar Winds of the Wolf-Rayet Binary Star CQ Cephei			
Dr. C. Shrader	CSC - IUE	XBLCS	TARG OF OPP
X-ray Transients as Targets of Opportunity			

PI NAME/TITLE	INSTITUTION	PROGID
Dr. T. Simon	U Hawaii	CCLTS
The Dependence of Chromospheric Activity upon Mass, Age, and Rotation		
Dr. T. Simon	U Hawaii	SDLTS
The Mass of the Subdwarf B Star in HD 185510		
Dr. T. Simon	U Hawaii	FDLTS
Chromospheric Activity in the Early F Stars		
Dr. E. Sion	Villanova	WDLES
Echelle Studies of Physical Processes in Helium-Rich White Dwarfs PG0112+104		
Dr. E. Sion	Villanova	EBLES
Observations of V471 Tauri at Critical Phases		
Dr. E. Sion	Villanova	HELES
IUE Echelle Studies of Physical Processes in Helium-Rich White Dwarfs		
Dr. M. Smith	CSC - IUE	LGLMS
Periodic Ultraviolet Variations in Two Red Supergiants		
Dr. M. Smith	CSC - IUE	BELMS
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Dr. T. Snow	Colorado CASA	IMLTS
Interstellar Depletions and Ultraviolet Extinction in Dense Clouds		
Dr. S. Starrfield	Arizona State	CVLSS
Ultraviolet Observations of Nova QU Vul 1984 #2, Nova GQ Mus 1983, and Novae LMC 1988 # 1 & 2		
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IUE Observations of Pluto's Surface and Extended Atmosphere		
Dr. S. Stern	Colorado LASP	SULSS
First UV Spectra of Uranian Satellites		
Dr. S. Stern	Colorado LASP	SNLSS
IUE Observations of Triton and Neptune at the Time of the Voyager Encounter		
Dr. J. Stocke	Colorado CASA	RGLJS
NGC 4410: A Nearby, Bright "Cooling Flow"		
Dr. W. Sun	NASA - GSFC	AGLWS
UV-Bracketted X-ray Observations of AGNs		
Dr. P. Szkody	U Washington	CVLPS
The Hot Component in 3 New CVs		
Dr. T. Teays	CSC - IUE	DCLTT
The Unique Type II Cepheid RU Cam		
Dr. D. Turnshek	U Pittsburgh	QSLDT
UV Observations of Two Bright Moderate Redshift Broad Absorption Line QSOs		

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Dr. C. Urry	ST ScI	BLLCU
Coordinated Multifrequency Observations of X-Ray Bright BL Lacertae Objects		
Dr. S. Vrtilek	CFA - SAO	XBLSV
Multiwavelength Observations of Scorpius X-1		
Dr. R. Wagener	SUNY	SNLRW
Solar System Observations I. Neptune During the Voyager Encounter		
Dr. G. Wallerstein	U Washington	ESLGW
High Resolution Observations of the Eruptive Symbiotic PU Vulpeculae		
Dr. F. Walter	Colorado CASA	RSLFW
Fourth Epoch Doppler-Imaging Observations of AR Lacertae		
Dr. B. Wills	U Texas Austin	QSLBW
Polarized IRAS QSOs - 'Normal' QSOs seen Edge-on?		
Dr. L. Willson	Iowa State	MGLLW
High Dispersion Observations of Mg II in Miras		
Dr. L. Willson	Iowa State	CSLLW
Dust Nucleation and the Efficiency of Grain Formation: Clues from the Unstable Wind of L2 Pup		
Dr. A. Witt	Toledo	RNLAW
Large-Angle Scattering in Reflection Nebulae		
Dr. A. Witt	Toledo	IMLAW
Molecular Hydrogen Dissociation Fronts and Red Dust Emission in Reflection Nebulae		
Dr. C. Wu	CSC - ST	SALCW
Augmentation of the IUE Ultraviolet Spectral Atlas		
Dr. D. York	U Chicago	RRLDY
Study of High Velocity 21cm HI Clouds Using RR Lyrae Stars		
Dr. F. Yusef-Zadeh	Northwestern	HHLFY
A Unique Herbig Haro Object		

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This list contains all papers that have appeared between the above dates in major refereed journals (Mon. Not. R. astr. Soc., Astron. & Astrophys., Astrophys. J.) and which make reference to IUE data.

We remind users that, in any publications resulting from IUE data, whether it be form their own allocated shifts or data released from the Archive, they should acknowledge the use of the IUE Satellite and the Agency -ESA, NASA or SERC as appropriate, in a footnote on the title page. The following are examples of some possibilities.

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MERGED LOG OF IUE OBSERVATIONS

1 April 1989 - 30 November 1989

The merged log of Vilspa and Goddard images for the above dates is listed in order of right ascension. (For non-standard images the information given can be incomplete.)

The programme reference codes (column 1) identifying the ESA programmes for the eleventh round can be found in ESA IUE Newsletter No. 33, page 45.

The Object Classification Codes (column 3) and the Vilspa Exposure Classification Codes (column 16) are listed overleaf.

CLASSIFICATION OF OBJECTS USED IN THE JOINT ESA/SERC LOG OF IUE OBSERVATIONS

00	SUN	50	R, N OR S TYPES
01	EARTH	51	LONG PERIOD VARIABLE STARS
02	MOON	52	IRREGULAR VARIABLES
03	PLANET	53	REGULAR VARIABLES
04	PLANETARY SATELLITE	54	DWARF NOVAE
05	MINOR PLANET	55	CLASSICAL NOVAE
06	COMET	56	SUPERNOVAE
07	INTERPLANETARY MEDIUM	57	SYMBIOTIC STARS
08	GIANT RED SPOT	58	T TAURI
09		59	X-RAY
10	W C	60	SHELL STAR
11	W N	61	ETA CARINAE
12	MAIN SEQUENCE O	62	PULSAR
13	SUPERGIANT O	63	NOVA-LIKE
14	OE	64	STELLAR OBJECT NOT INCLUDED ABOVE
15	OF	65	MISIDENTIFIED TARGETS
16	SD O	66	INTERACTING BINARIES
17	WD O	67	
18		68	
19	UV-STRONG	69	
20	B0-B2 V-IV	70	PLANETARY NEBULAR+CENTRAL STAR
21	B3-B5 V-IV	71	PLANETARY NEBULAR-CENTRAL STAR
22	B6-B9,5 V-IV	72	H II REGION
23	B0-B2 III-I	73	REFLECTION NEBULA
24	B3-B5 III-I	74	DARK CLOUD (ABSORPTION SPECTRUM)
25	B6-B9,5 III-I	75	SUPERNOVA REMNANT
26	BE	76	RING NEBULA (SHOCK-IONISED)
27	BP	77	
28	SDB	78	
29	WDB	79	
30	A0-A3 V-IV	80	SPIRAL GALAXY
31	A4-A9 V-IV	81	ELLIPTICAL GALAXY
32	A0-A3 III-I	82	IRREGULAR GALAXY
33	A4-A9 III-I	83	GLOBULAR CLUSTER
34	AE	84	SEYFERT GALAXY
35	AM	85	QUASAR
36	AP	86	RADIO GALAXY
37	WDA	87	BL LACERTAE OBJECT
38	HORIZONTAL BRANCH	88	EMISSION LINE GALAXY (NON-SEYFERT)
39	COMPOSITE	89	
40	F0-F2	90	INTERGALACTIC MEDIUM
41	F3-F9	91	
42	FP	92	
43	LATE TYPE DEGENERATE STARS	93	
44	G (TO 1FEB79); GIV-VI (FROM 1FEB79)	94	
45	G I-II (FROM 1FEB79)	95	
46	K (TO 1FEB79); K IV-VI (FROM 1FEB79)	96	
47	K I-III (FROM 1FEB79)	97	
48	M (TO 1FEB79); M DWARFS (FRM 1FEB79)	98	WAVELENGTH CALIBRATION (NASA LOG)
49	M I-III (FROM 1 FEB79)	99	NULLS AND FLAT FIELDS (NASA LOG)

THE CLASSIFICATION IS SUPPLIED BY D STICKLAND FOR USE ONLY WITHIN THE PROJECT

EXPOSURE CLASSIFICATION CODES

The exposure levels of Vilspa images are described by a 3-digit code listed in column 16 in the merged log.

DIGIT 1: EXPOSURE LEVEL OF CONTINUUM
DIGIT 2: EXPOSURE LEVEL OF EMISSION LINES
DIGIT 3: BACKGROUND LEVEL

The CONTINUUM and EMISSION are both classified as follows:-

0: NOT APPLICABLE
1: NO SPECTRUM VISIBLE
2: FAINT SPECTRUM: MAX DN < 20 ABOVE LOCAL BACKGROUND
3: UNDEREXPOSED: MAX DN < 100 ABOVE LOCAL BACKGROUND
4: WEAK: MAX DN BETWEEN 100 AND 150 ABOVE LOCAL BACKGROUND
5: GOOD: NO SATURATION BUT MAX DN OVER 150 ABOVE LOCAL BACKGROUND
6: A BIT STRONG: A FEW PIXELS SATURATED
7: SATURATED FOR LESS THAN HALF THE SPECTRUM
8: MOSTLY SATURATED BUT SOME PARTS USABLE
9: COMPLETELY SATURATED

The BACKGROUND is classified in terms of a standard region of each camera outside the area affected by the high resolution orders. The value used is the mean DN given by a subset histogram approximately 10 pixels in width.

The BACKGROUND classification codes are:- (limits inclusive)

0 DN<20
1 21<DN<30
2 31<DN<40
3 41<DN<50
4 51<DN<60
5 61<DN<70
6 71<DN<80
7 81<DN<90
8 91<DN<100
9 DN>101
X SATURATED

NOTES

1) No exposure classification code was assigned to VILSPA images before 1 August 1978.

2) Prior to 1 Sept 1979, the BACKGROUND digit was not included and the ECC occupied the first two places in the comment line.

3) The Goddard images are described in the comments by the gross DN of the CONTINUUM (C), EMISSION LINES (E) and BACKGROUND (B).

Vilsp [illegible] [illegible]

PRO								Image									
KE190	NULL	[illegible]	[illegible]	[illegible]	+00[illegible]		1	15[illegible]		00000		8905050[illegible]	00[illegible]	00000[illegible]		V	
PHCAL	NULL	[illegible]	[illegible]0	[illegible]	00[illegible]	L	2	18[illegible]09				89052815	151[illegible]	001500	00	G	B=15
LA084	NULL	99	99.99	0000000	+000000		3	36634		00000		89070700	000000	000000		V	NULL IMAGE
PHCAL	NULL	99	99.99	0000000	+000000		2	18319		00000		89072020	200200	000000	[illegible]2	V	
PHCAL	NULL	[illegible]	[illegible]	[illegible]	[illegible]		1	[illegible]		00000		8907272[illegible]	[illegible]	[illegible]		V	
LS039	SKY	99	99.99	0000000	+000000	L	3	36732	L	00000	S0	89072500	001654	009000	141	V	SKY FOR [illegible]NAL L
LA165	NULL	99	99.99	0000000	+000000	L	1	16116		00000		89081321	212918	000050	112	V	
LS027	NULL	99	99.99	0000000	+000000	L	3	36877		00000		89082315	152500	000000		V	FOR SWP36878
LM111	NULL	99	99.99	0000000	+000000	L	3	37085	L	00000		89091915	153300	000000	100	V	[illegible]READ, [illegible]
LE168	NULL	99	99.99	0000000	+000000		3	37325		00000		89101613	131500	000000	000	V	
PHCAL	SKY	99	99.99	0000000	+000000	L	1	16617	L	00000		89102313	130336	000100	003	V	
PHCAL	SKY	99	99.99	0000000	+000000	L	1	16618	L	00000		89102313	133315	003138	007	V	AFTER [illegible],[illegible]10,S
PHCAL	SKY	99	99.99	0000000	+000000	L	1	16619	L	00000		89102314	144704	001000	006	V	
PHCAL	SKY	99	99.99	0000000	+000000	L	3	37442	L	00000		89102315	153324	000100	000	V	
PHCAL	SKY	99	99.99	0000000	+000000	L	1	16620	L	00000		89102316	161356	000619	004	V	
PHCAL	SKY	99	99.99	0000000	+000000	L	3	37443	L	00000		89102316	161140	003138		V	
PHCAL	NULL	99	99.99	0000000	+000000		1	16621		00000		89102317	174500	000000		V	HIGH GAIN READ
PHCAL	60/TFLOOD	99	99.99	0000000	+000000		1	16622		00000		89102319	193952	000100	009	V	
PHCAL	SKY	99	99.99	0000000	+000000	L	1	16623	L	00000		89102320	203606	000020		V	
PHCAL	NULL	99	99.99	0000000	+000000		1	16632		00000		89102414	145400	000000		V	
PHCAL	60%CALUV	99	99.99	0000000	+000000		1	16633		00000		89102415	154346	000204		V	FINL UVF = 38
PHCAL	20%CALUV	99	99.99	0000000	+000000		1	16634		00000		89102417	170100	000041		V	FINAL UVF = 37
PHCAL	20%TFLOOD	99	99.99	0000000	+000000		1	16635		00000		89102417	175811	000020		V	
PHCAL	40% TFLOOD	99	99.99	0000000	+000000		1	16636		00000		89102418	185520	000040		V	
PHCAL	SKY	99	99.99	0000000	+000000	H	3	37450	L	00000		89102418	185145	010000		V	HIGH GAIN READ
PHCAL	60% TFLOOD	99	99.99	0000000	+000000		1	16637		00000		89102419	193000	000100		V	
PHCAL	NULL	99	99.99	0000000	+000000		1	16638		00000		89102420	200300	000000		V	
PHCAL	NULL	99	99.99	0000000	+000000		1	16639		00000		89102420	202000	000000		V	HIGH GAIN READ
LC095	NULL	99	99.99	0000000	+000000	L	3	37465	L	00000		89102614	140520	009000	002	V	
PHCAL	NULL	99	99.99	0000000	+000000		2	18334		00000		89103014	141400	000000	001	V	LWR: 4.5 KV - SAFETY
PHCAL	NULL	99	99.99	0000000	+000000		1	16698		00000		89103020	200500	000000	001	V	LWP SAFETY READ
PHCAL	NULL	99	99.99	0000000	+000000		1	16750		00000		89110517	175000	000000		V	
PHCAL	SKY	99	99.99	0000000	+000000	L	2	18347	L	00000		89110615	153145	002000		V	LWR : 5 KV
PHCAL	NULL	99	99.99	0000000	+000000		1	16753		00000		89110616	161500	000000		V	
PHCAL	NULL	99	99.99	0000000	+000000		1	16786		00000		89111400	000000	000000		V	
PHCAL	NULL	99	99.99	0000000	+000000		2	18348		00000		89111411	114300	000000		V	4.5KV NULL IMAGE
PHCAL	60%CALUV	99	99.99	0000000	+000000		2	18350		00000		89111413	130145	000234		V	4.5KV.5 KV. NULL IMA
PHCAL	20%CALUV	99	99.99	0000000	+000000		2	18351		00000		89111413	133407	000051		V	
PHCAL	120%CALUV	99	99.99	0000000	+000000		2	18352		00000		89111414	140629	000509		V	
PHCAL	60%CALUV	99	99.99	0000000	+000000		2	18353		00000		89111414	145014	000234		V	
PHCAL	100% TFLOO	99	99.99	0000000	+000000		2	18354		00000		89111415	154354	000030		V	
PHCAL	160 CALUV	99	99.99	0000000	+000000		2	18355		00000		89111416	161854	000652		V	
PHCAL	2ND READ	99	99.99	0000000	+000000		2	18356		00000		89111416	164000	000000		V	
PHCAL	NULL	99	99.99	0000000	+000000		2	18357		00000		89111417	170000	000000		V	
PHCAL	NULL	99	99.99	0000000	+000000		2	18358		00000		89111417	173000	000000		V	
PHCAL	NULL	99	99.99	0000000	+000000		3	37594		00000		89111512	122000	000000	002	V	NULL IMAGE
PHCAL	60% UVFLOO	99	99.99	0000000	+000000		3	37595		00000		89111512	125007	000149	003	V	
PHCAL	20% UVFLOO	[illegible]	99.99	0000000	+000000		3	37596		00000		89111513	131715	000036	001	V	
PHCAL	120% UVFLO	[illegible]	99.99	0000000	+000000		3	37597		00000		89111513	134319	000338	006	V	
PHCAL	60% UVFLOO	[illegible]	99.99	0000000	+000000		3	37598		00000		89111514	142412	000149	003	V	

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
PHCAL	160% UVFLO	99	99.99	0000000	+000000		3	37599		00000		89111515	150131	000451	008	V READ ONLY
PHCAL	2ND READ	99	99.99	0000000	+000000		3	37600		00000		89111515	153000	000000	001	V
PHCAL	NULL	99	99.99	0000000	+000000		3	37601		00000		89111515	155000	000000	002	V
PHCAL	NULL	99	99.99	0000000	+000000		3	37602		00000		89111516	161000	000000	000	V
PHCAL	100% TFLOO	99	99.99	0000000	+000000		3	37603		00000		89111516	163407	000016	009	V
PHCAL	HD 108	13	7.4	0003267	+632405	L	3	36790	S	2953	FO	89080315	151300	000040	500	G C=210,B=18
PHCAL	HD 108	13	7.4	0003267	+632405	L	3	36790	S	2953	FO	89080315	151800	000120	500	G C=195,B=18
AGLWS	MKN 335	84	13.8	0003451	+195528	L	3	36569	L	43	SO	89062310	100400	008000	3X1	G E=1.5X,C=90,B=26
AGLWS	MKN 335	84	13.8	0003451	+195528	L	1	15774	L	41	SO	89062311	113100	004500	442	G E=186,C=183,B=36
AGLWS	MKN 335	84	13.8	0003451	+195528	L	3	36570	L	41	SO	89062312	122100	003000	351	G E=202,C=50,B=25
AGLWS	MKN 335	84	13.8	0003451	+195528	L	3	36928	L	39	SO	89090203	033300	008000	352	G E=205,C=95,B=35
AGLWS	MKN 335	84	13.8	0003451	+195528	L	1	16268	L	37	SO	89090205	050300	004500	342	G E=183,C=119,B=40
AGLWS	MKN 335	84	13.8	0003451	+195528	L	3	36929	L	40	SO	89090205	055600	005000	351	G E=223,C=70,B=24
AGLWS	MKN 335	84	13.8	0003452	+195529	L	3	36717	L	39	SO	89072208	080600	008000	352	G E=193,C=110,B=31
AGLWS	MKN 335	84	13.8	0003452	+195529	L	1	15977	L	41	SO	89072209	093500	004500	452	G E=206,C=150,B=40
AGLWS	MKN 335	84	13.8	0003452	+195529	L	3	36718	L	39	SO	89072210	102500	002500	340	G E=148,C=48,B=20
AGLWS	MKN 335	84	13.8	0003452	+195529	L	3	37485	L	33	SO	89102921	214300	008000	3X1	G E=1.5X,C=84,B=26
AGLWS	MKN 335	84	13.8	0003452	+195529	L	1	16696	L	34	SO	89102923	231100	004500	443	G E=174,C=154,B=43
AGLWS	MKN 335	84	13.8	0003452	+195529	L	3	37486		36	SO	89103000	000700	000000	341	G E=158,C=47,B=22
AGLWS	MKN 335	84	13.8	0003452	+195529	L	3	37664	L	3	SO	89112320	201300	008000	3X1	G E=2X,C=84,B=30
AGLWS	MKN 335	84	13.8	0003452	+195529	L	1	16819	L	34	SO	89112321	214300	004500	303	G C=140,B=41
AGLWS	MKN 335	84	13.8	0003452	+195529	L	3	37665	L	34	SO	89112322	223300	002000	241	G E=122,C=37,B=21
LMO72	HD256	31	06.54	0004451	-173955	H	1	15895	L	08471	FO	89071021	214733	004300	501	V
LMO72	HD256	31	06.65	0004451	-173955	H	3	36657	L	07743	FO	89071022	223819	010000	500	V
LMO72	HD256	31	06.63	0004451	-173955	H	1	15896	L	07842	FO	89071100	002540	004300	501	V
LMO72	HD256	31	06.58	0004451	-173955	H	3	36658	L	08213	FO	89071101	011414	009000	500	V
SALOW	HD 1013	49	4.80	0012006	+195542	L	1	15978	S	24387	FO	89072213	135500	001500	346	G E=203,C=121,B=71
SALOW	HD 1013	49	4.80	0012006	+195542	L	1	15978	L	24094	FO	89072213	135500	007500	X06	G C=3X,C=240,B=75
PHCAL	T-FLOOD	98	5.8	0016011	+311422	L	1	15820	S			89070113	132400	000025	?8	G E=10X,B=98
PHCAL	WAVECAL	98	5.8	0016011	+311422	L	1	15820	S			89070113	132600	000001	?8	G E=10X,B=98
PHCAL	T-FLOOD	98	5.8	0016011	+311422	H	1	15821	S			89070114	141200	000025	?9	G E=50,B=105
PHCAL	WAVECAL	98	5.8	0016011	+311422	H	1	15821	S			89070114	141400	000016	?9	G E=50X,B=105
PHCAL	NULL	99	5.8	0016011	+311422		2	18316				89070115	150600	000000	01	G B=27
PHCAL	T-FLOOD	98	5.8	0016011	+311422	L	3	36593	S			89070115	154600	000005	?9	G E=20X,B=105
PHCAL	WAVECAL	98	5.8	0016011	+311422	L	3	36593	S			89070115	154800	000002	?9	G E=20X,B=105
PHCAL	T-FLOOD	98	5.67	0016011	+311422	H	3	36594	S			89070116	163700	000005	?9	G E=60X,B=115
PHCAL	WAVECAL	98	5.67	0016011	+311422	H	3	36594	S			89070116	163900	000200	?9	G E=60X,B=115
PHCAL	T-FLOOD	98	5.8	0016011	+311422	L	2	18317	S			89070117	172300	000010	?7	G E=10X,B=90
PHCAL	WAVECAL	98	5.8	0016011	+311422	L	2	18317	S			89070117	172500	000001	?7	G E=10X,B=90
PHCAL	WAVECAL	98	5.8	0016011	+311422	H	2	18318	S			89070117	175200	000010	?9	G E=50X,B=120
PHCAL	WAVECAL	98	5.8	0016011	+311422	H	2	18318	S			89070117	175300	000022	?9	G E=50X,B=120
PHOTOL	HD 1909	27	6.5	0030425	-311846	L	1	15712	L	6318	FO	89061215	155900	000045	02	G B=40
PHOTOL	HD 1909	27	6.6	0030425	-311846	L	3	36464	L	6282	FO	89061216	161200	000105	500	G C=174,B=18
PHCAL	HD2151	44	03.27	0023094	-773208	H	2	18320	L	01388	FU	89072021	210632	002800	772	V NO GUIDING - STAR DR
PHCAL	HD2151	44	03.23	0023094	-773208	H	2	18335	L	01438	FU	89103015	150426	002100	702	V LMR : 4.5 KV
PHCAL	HD2151	44	03.09	0023094	-773208	H	2	18336	L	01628	FU	89103015	155954	002100	702	V LMR : 4.5 KV - REF.
PHCAL	HD2151	44	03.15	0023094	-773208	H	2	18337	L	01535	FU	89103017	171435	002100	702	V LMR : 4.5 KV - REF.
PHCAL	HD2151	44	03.17	0023094	-773208	H	2	18338	L	01507	FU	89103018	180924	002100	702	V LMR: 4.5 KV
PHCAL	HD2151	44	03.28	0023094	-773208	H	2	18339	L	01377	FU	89103019	190749	002100	702	V LMR : 4.5 KV - REF.
PHCAL	HD2151	44	03.10	0023094	-773208	H	2	18340	L	01611	FU	89103020	200834	002100	702	V LMR : 4.5 KV -REF. P

PRO	Object	CL	MAG	R.A.	DEC	D C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
ISLJH	PG 0027+259	28	11.7	0027002	+255353	L 3	37639	L	328	SO	89112022	225200	000600	301 G	C=44,B=23
ISLJH	PG 0027+259	28	11.7	0027002	+255353	L 1	16801	L	33	SO	89112023	230800	000700	302 G	C=100,B=35
ISLJH	PG 0027+259	28	11.7	0027002	+255353	L 3	37640	L	342	SO	89112023	234300	004500	401 G	C=145,B=26
HCKEB	NGC 129-125	25	11.8	0027089	+595557	L 1	16009	L	201	SO	89072818	182000	002600	302 G	C=120,B=32
HCKEB	NGC 129-105	22	11.2	0027124	+595532	L 1	16007	L	363	SO	89072814	141700	002500	407 G	C=210,B=81
HCKEB	NGC 129-105	22	11.2	0027124	+595532	L 3	36753	L	373	SO	89072814	145700	006000	303 G	C=135,B=48
BCLEB	NGC 129-C	24	10.9	0027166	+595325	L 1	16008	L	131	FO	89072816	162400	002500	402 G	C=185,B=40
BCLEB	NGC 129-C	24	10.9	0027166	+595325	L 3	36754	L	112	FO	89072817	170100	006000	300 G	C=95,B=20
PHCAL	SFTY RD	99		0034102	+533718	H 2	18324				89081211	112100	000000	02 G	B=32
PHCAL	HD 3360	20	3.68	0034102	+533718	H 1	16506	L			89100811	112700	000021	G	
PHCAL	HD 3360	20	3.68	0034102	+533718	H 3	37279	L	811	FU	89100811	113200	000024	402 G	C=183,B=35
PHCAL	HD 3360	20	3.7	0034103	+533719	H 1	16085	L	802	FU	89080707	075900	000021	503 G	C=229,B=42
PHCAL	HD 3360	20	3.7	0034103	+533719	H 3	36807	L	797	FU	89080708	080400	000024	502 G	C=190,B=36
PHCAL	HD 3360	20	3.7	0034103	+533719	H 3	36818	L	808	FU	89081009	094100	000024	402 G	C=180,B=36
PHCAL	HD 3360	20	3.7	0034103	+533719	H 1	16099	L	807	FU	89081009	094600	000021	503 G	C=220,B=44
PHCAL	HD 3360	20	3.7	0034103	+533719	H 2	18325	L	802	FU	89081211	115200	000029	502 G	C=200,B=32
PHCAL	HD 3360	20	3,68	0034103	+533719	H 3	37215	L	823	FU	89093010	105600	000024	402 G	C=184,B=38
PHCAL	HD 3360	20	3.68	0034103	+533719	H 3	37532	L	789	FU	89110705	051300	000024	502 G	C=185,B=32
PHCAL	HD 3360	20	3.68	0034103	+533719	H 1	16755	L	791	FU	89110705	051700	000021	503 G	C=203,B=43
MCLNE	HV 821	53	11.7	0039512	-735948	L 1	15937	L	168	SO	89071605	051800	015600	304 G	C=90,B=58
SRLRF	S AND	80	12.0	0039574	+405934	L 1	15819	L		BO	89070106	062700	034500	308 G	C=157,B=92
SRLRF	S AND	80	12.0	0039574	+405934	L 1	15819	L		BO	89070112	121200	000000	308 G	C=157,B=92
SRLRF	S AND	80	12	0039574	+405934	L 1	15843	L		BO	89070403	035700	054000	309 G	C=205,B=116
SRLRF	S AND	80	12	0039574	+405934	L 1	15844	L		BO	89070413	134600	006500	305 G	C=90,B=61
LGLTA	HD 4128	47	2.04	0041047	-181538	H 3	37541	L	2896	FU	89110819	195700	099900	XX9 G	E=3X,C=2X,B=108
PHCAL	SKYBKGND	07		0041047	-181538	H 1	16761	L	N/A		89110822	221700	006000	03 G	B=46
LGLTA	HD 4128	47	2.04	0041047	-181538	H 1	16762	L	2906	FU	89110902	021400	005000	XX4 G	E=5X,C=5X,B=60
LGLTA	HD 4128	47	2.04	0041047	-181538	H 1	16763	L	3077	FU	89110903	035000	000920	443 G	E=167,C=180,B=41
LGLTA	HD 4128	47	2.04	0041047	-181538	H 1	16764	L	2930	FU	89110904	044400	000920	453 G	E=192,C=186,B=41
PHCAL	SKYBKGND	07		0041047	-181538	H 1	16769	L			89110923	230500	012000	03 G	B=43
LC114	HD4128	45	02.39	0041048	-181539	E 9	02255	2	03023	FU	89110915	150000	002000	V	FOR SWP37541
MLKPM	SAO 36609	64		0041191	+411752	F 9	02211	2			89062920	202300	016000	G	
MLKPM	OB42-B	13	17.9	0042103	+411509	L 1	15815	L		BO	89063020	205600	092500	39 G	E=225,B=132
KA059	M31-OB48-5	72	99.99	0042325	+412257	F 9	02210	1	00000		89062820	205500	004000	V	FOR LWP15812
MLKPM	OB48-527	13	18.3	0042325	+412257	L 1	15812	L		BO	89062921	213000	090000	309 G	C=210,B=132
LGLHJ	SKYBKGND	07		0051324	+234745	H 1	16146	L			89081623	231000	003000	05 G	B=65
LGLHJ	SKYBKGND	07		0051324	+234745	H 1	16147	L			89081702	020300	003000	05 G	B=61
LGLHJ	HD 5223	50	8.30	0051324	+234745	L 3	36864	L	931	FO	89081706	060900	030300	09 G	B=114
LGLHJ	HD 5223	50	8.3	0051325	+234746	L 3	37695	L	863	FO	89112820	200800	040000	03 G	B=48
MCLNE	HV 837	53	12.8	0054114	-721516	L 1	15938	L	65	SO	89071609	094000	031000	308 G	C=155,B=98
LI064	U CEP	66	07.37	0057448	+813624	H 3	37004	L	04125	FO	89091215	153259	004000	500 V	
CBLEG	HD 5679	66	6.9	0057448	+813623	H 3	36990	L	4410	FO	89091110	103500	004500	XO8 G	C=1.5X,B=92
CBLEG	HD 5679	66	6.9	0057448	+813623	H 1	16328	L	4392	FO	89091111	112900	002200	XO8 G	C=1.5X,B=91
CBLEG	HD 5679	66	6.9	0057448	+813623	H 3	36991	L	4385	FO	89091112	120100	004000	506 G	C=235,B=71
CBLEG	HD 5679	66	6.9	0057448	+813623	H 3	36997	L	4241	FO	89091200	000100	003800	502 G	C=188,B=35
CBLEG	HD 5679	66	6.9	0057448	+813623	H 1	16334	L	4293	FO	89091200	004900	002000	503 G	C=210,B=43
CBLEG	HD 5679	66	6.9	0057448	+813623	H 3	36998	L	4323	FO	89091201	012400	004200	403 G	C=190,B=41
CBLEG	HD 5679	66	6.9	0057448	+813623	H 1	16335	L	4332	FO	89091202	021800	002000	503 G	C=210,B=45
CBLEG	HD 5679	66	6.9	0057448	+813623	H 1	16337	L	4548	FO	89091207	071700	002000	503 G	C=221,B=45
CBLEG	HD 5679	66	6.9	0057448	+813623	H 3	37000	L	5320	FO	89091207	074600	004000	503 G	C=219,B=41

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
CBLEG	HD 5679	66	6.9	0057448	+813623	H	3	37007	L	2649	FO	89091223	232600	006000	402	G C=138,B=35
CBLEG	HD 5679	66	6.9	0057448	+813623	H	1	16345	L	1217	FO	89091300	003400	005000	333	G E=89,C=95,B=41
CBLEG	HD 5679	66	6.9	0057448	+813623	L	3	37008	L	457	FO	89091301	013400	000800	30	G E=59,B=18
CBLEG	HD 5679	66	6.9	0057448	+813623	H	1	16346	L	446	FO	89091302	021400	004000	333	G E=87,C=80,B=44
CBLEG	HD 5679	66	6.9	0057448	+813623	L	3	37009	L	454	FO	89091303	030500	002500	40	G E=147,B=18
CBLEG	HD 5679	66	6.9	0057448	+813623	L	3	37010	L	1001	FO	89091304	042400	000600		G
CBLEG	HD 5679	66	8.0	0057448	+813623	H	3	37012	L	4243	FO	89091307	071900	006000	X04	G C=1.5X,B=51
CBLEG	HD 5679	66	8.5	0057448	+813623	H	1	16348	L	4298	FO	89091308	083900	003000	04	G 1.5X,B=52
CBLEG	HD 5679	66	6.9	0057448	+813623	H	3	37015	L	4258	FO	89091314	140900	004000	503	G C=203,B=41
CBLEG	HD 5679	66	6.9	0057448	+813623	H	1	16351	L	4173	FO	89091314	145900	002000	503	G C=215,B=46
CBLEG	HD 5679	66	6.9	0057448	+813623	H	3	37022	L	4216	FO	89091404	041400	004000	402	G C=180,B=35
CBLEG	HD 5679	66	6.9	0057448	+813623	H	1	16357	L	4170	FO	89091405	050500	002000	503	G C=200,B=42
CBLEG	HD 5679	66	6.9	0057448	+813623	H	3	37024	L	4093	FO	89091410	100200	004000	503	G C=216,B=46
CBLEG	HD 5679	66	6.9	0057448	+813623	H	1	16359	L	4142	FO	89091410	105000	002000	504	G C=219,B=55
LI064	U CEP	66	07.36	0057449	+813624	H	1	16331	L	04169	FO	89091119	190942	002000	501	V
LI064	U CEP	66	07.38	0057449	+813624	H	3	36994	L	04109	FO	89091119	193725	004000	500	V
LI064	U CEP	66	07.40	0057449	+813624	H	1	16332	L	04034	FO	89091120	202641	002100	501	V
LI064	U CEP	66	07.40	0057449	+813624	H	3	36995	L	04029	FO	89091121	210208	004200	500	V
LI064	U CEP	66	07.38	0057449	+813625	H	1	16341	L	04085	FO	89091216	162049	002000	501	V
LI064	U CEP	66	07.58	0057449	+813625	H	1	16344	L	03427	FO	89091222	222803	003000	501	V
LI064	U CEP	66	07.35	0057449	+813625	H	3	37018	L	04201	FO	89091320	202436	004000	500	V
LI064	U CEP	66	07.34	0057449	+813625	H	1	16354	L	04227	FO	89091321	211340	002000	501	V
MLKCG	AV243	12	13.8	005829	-730321	H	3	36274	L	38	FO	89051609	093900	031100	305	G C=120,B=65
LQ173	0059-2735	85	16.50	0059524	-273557	E	9	02244	2	00000	BO	89090521	211400	004000		V FOR LWP16287
QSLDT	QSO 0059-27	85	16.5	0059524	-273557	L	1	16287	L		BO	89090605	050800	054200	08	G B=92
PHCAL	FEIGE 11	28	12.1	0101420	+035800	L	1	16303	L	161	SO	89090808	083400	000645	502	G C=222,B=32
PHCAL	FEIGE 11	28	12.1	0101420	+035800	L	3	36961	L	158	SO	89090808	084800	000520	500	G C=227,B=17
PHCAL	FEIGE 11	28	12.1	0101420	+035800	L	1	16304	L	171	SO	89090810	102300	000645	502	G C=240,B=37
PHCAL	FEIGE 11	28	12.1	0101420	+035800	L	3	36962	L	175	SO	89090810	103800	000520	500	G C=227,B=17
PHCAL	FEIGE 11	28	12.1	0101420	+035800	L	1	16305	L	180	SO	89090812	121200	000645	503	G C=238,B=42
PHCAL	FEIGE 11	28	12.1	0101420	+035800	L	3	36963	L	178	SO	89090812	123000	000520	500	G C=235,B=18
CVLAH	RX AND	54	13.0	0101457	+410156	L	3	37211	S	96	SO	89093004	042500	003000	309	G C=160,B=105
CVLAH	RX AND	54	13.6	0101457	+410156	L	3	37267	S	45	SO	89100700	001000	018000	333	G E=122,C=125,B=42
CVLAH	RX AND	54	13.6	0101457	+410156	L	3	37268	S			89100703	034200	007000		G
LA026	PG0112+104	37	14.50	0111599	+102513	L	3	37655	L	00000	BO	89112212	121828	002000	000	V UNDEREXPOSED
LA026	PG0112+104	37	14.50	0111599	+102513	E	9	02263	2	00000	BO	89112212	120000	004000		V FOR SWP 37656
WDLES	PG 0112+104	29	14.6	0112000	+102512	H	3	37656	L		BO	89112213	132000	080000	309	G C=165,B=118
CD60Y	WX CETI	54	13.0	0114374	-181210	L	3	36511	L	82	SO	89061510	104100	005500	500	G C=240.B=20
CD60Y	WX CETI	54	13.0	0114374	-181210	L	1	15730	L	86	SO	89061511	114600	003500	503	G C=230,B=41
CD60Y	WX CETI	54	13.0	0114374	-181210	L	3	36512	L	87	SO	89061512	122900	002400	331	G E=92,C=112,B=25
LA099	HD 7902	26	05.56	0116420	+575644	H	1	16715	L	18044	FO	89110118	180659	004500	402	V
LA153	LB3193	24	13.10	0117120	-621100	L	3	36406	L	00100	SO	89060621	215409	008400	600	V
LA153	LB 3193	24	13.14	0117120	-621100	L	3	36407	L	00096	SO	89060623	234742	008400	600	V PREAD
LQ067	PKS0118-272	87	16.00	0118095	-271707	L	1	16096	L	00000	BO	89080915	152959	014300	302	V PREAD
PHCAL	NULL	99	0.0	0120483	+372716		2	18359				89112519	193900	000000	01	G B=24
KQ085	F9	84	14.38	0121512	-590359	L	3	36234	L	00082	SO	89051003	032031	007500	350	V
KQ085	F9	84	14.41	0121512	-590359	L	1	15488	L	00081	SO	89051004	044423	005500	342	V
KQ085	F9	84	14.45	0121512	-590359	L	3	36235	L	00080	SO	89051005	054715	006000	350	V
LQ115	F9	84	14.38	0121512	-590359	L	3	36713	L	00082	SO	89072123	235537	006000	350	V
LQ115	F9	84	14.00	0121512	-590359	L	1	15975	L	00000	BO	89072201	010253	005500	453	V

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
LQ115	F9	84	14.00	0121512	-590359	L	3	36714	L	00000	BO	89072202	020023	005000	350	V PREAD
LQ115	ESO 113-IG	84	14.15	0121512	-590359	L	3	37548	L	00039	SO	89111016	161946	008000	360	V
LQ115	ESO 113-IG	84	14.24	0121512	-590359	L	1	16770	L	00036	SO	89111017	175257	005700	341	V PREAD
ISLJH	PG 0122+200	17	16.1	0122399	+200222	L	3	37641	L			89112101	011500	006000		G
ISLJH	PG 0122+200	17	16.1	0122399	+200222	L	3	37641	L		BO	89112101	011600	008000	01	G 108,B=28
LQ100	MINKOWSKI	82	17.50	0123142	-013754	E	9	02265	2	00000	BO	89112711	114300	004000		V FES IMAGE FOR SWP 37
SBLKC	MINKOWSK	88	17.5	0123143	-013757	L	3	37691				89112719	194900	042000		G
SAKOW	HD 9053	47	3.40	012611	-433425	L	1	15614	L	895	FU	89052720	202600	000845	4X2	G E=3X,C=180,B=37
SAKOW	HD 9053	47	3.40	012611	-433425	L	1	15614	S	951	FU	89052720	204300	000210	X2	G E=1.5X,C-180,B=37
OBKEB	W103	20	15.4	0127405	-733824	L	1	15622	L		BO	89053008	080200	013500	405	G C=180,B=63
OBKEB	W103	20	15.4	0127405	-733824	L	3	36364	L		BO	89053010	102400	017200	503	G C=210,B=46
OBKEB	W 15	12	13.8	012816	-734844	L	3	36362	L	45	SO	89052919	190300	003400	X01	G C=1.5X,B=26
OBKEB	W 479	12	14.7	012905	-734112	L	1	15620	L		BO	89052919	194800	007400	503	G C=210,B=43
OBKEB	W 479	12	14.7	012905	-734112	L	3	36363	L		BO	89052921	211400	009200	501	G C=240,B=22
OBKEB	W582	20	15.1	0129296	-734040	L	1	15623	L		BO	89053013	133000	010800	406	G C=218,B=75
OBKEB	W582	20	15.1	0129296	-734040	L	3	36368	L		SO	89053020	205900	011000	501	G C=198,B=25
OBKEB	W 601	20	15.3	012935	-734030	L	3	36359	L		BO	89052908	083100	013000	X01	G C=1.5X,B=30
OBKEB	W 601	20	15.3	012935	-734030	L	1	15617	L		BO	89052910	104800	010000	403	G C=200,B=50
OBKEB	W 655	12	13.3	012942	-733825	L	3	36361	L	67	SO	89052916	162600	002300	503	G C=220,B=48
OBKEB	W 655	12	13.3	012942	-733825	L	1	15619	L	75	SO	89052917	172000	001600	409	G C=250,B=122
OBKEB	W 655	12	13.3	0129426	-733824	L	3	36366	L	76	SO	89053017	171500	002300	X09	G C=1.5X,B=147
OBKEB	W 9	12	14.2	0129522	-734036	L	3	36367	L	33	SO	89053019	191700	004200	X02	G C=1.5X,B=37
OBKEB	W 9	12	14.2	0129522	-734036	L	1	15625	L	30	SO	89053020	200900	003800	502	G C=215,B=38
OBKEB	W 30	20	15.1	013001	-734023	L	1	15618	L		BO	89052914	143800	009300	407	G C=211,B=85
OBKEB	W 30	20	15.1	0130015	-734023	L	3	36360	L		BO	89052912	124200	011000	501	G C=229,B=26
OBKEB	W 766	12	13.6	0130209	-733738	L	3	36365	L	48	SO	89053015	155700	002800	541	G E=160,C=197,B=25
OBKEB	W 766	12	13.6	0130240	-733700	L	1	15624	L	55	SO	89053016	163300	002400	X09	G C=1.5X,B=125
LI135	AX PER	57	09.82	0133057	+540007	H	3	37045	L	00468	FO	89091616	160635	015000	301	V XSPREP
PHCAL	HD 10700	44	3.5	0141398	-161133	L	1	15797	L	831	FU	89062705	054700	016500	X04	G C=2X,B=57
PHCAL	HD 10700	44	3.5	0141398	-161133	L	1	15798	L	749	FU	89062709	090800	000010	X02	G C=1.5X,B=33
PHCAL	HD 10700	44	3.5	0141398	-161133	L	1	15799	L	744	FU	89062709	094500	000005	402	G C=181,B=34
PHCAL	HD 11332	46	6.18	0148197	-480351	H	9	02264				89112306	061300	000000		G
RGLWK	NGC 828	86	13.0	0207071	+385722	L	3	36822	L	30	SO	89081122	225900	025500	02	G B=31
IMLDM	HR 628	22	5.6	0207502	+384816	H	1	16425	L	9172	FO	89092608	084200	000600	403	G C=145,B=41
IMLDM	HR 628	22	5.6	0207502	+384816	H	1	16426	L	9520	FO	89092609	092700	000900	403	G C=180,B=43
IMLDM	HR 628	22	5.6	0207502	+384816	H	1	16427	L	9074	FO	89092610	101800	001000	403	G C=186,B=45
IMLDM	HR 628	22	5.6	0207502	+384816	H	1	16529	L	8726	FO	89101106	061900	001030	503	G C=208,B=41
IMLDM	HR 629	30	6.1	0207511	+384828	H	1	16428	L	4911	FO	89092611	112700	002200	403	G C=150,B=43
IMLDM	HR 629	30	6.1	0207511	+384828	H	1	16429	L	4638	FO	89092612	122700	003300	404	G C=183,B=51
IMLDM	HR 629	30	6.1	0207511	+384828	H	1	16430	L	4451	FO	89092613	133800	003600	503	G C=197,B=45
IMLDM	HR 629	30	6.1	0207512	+384830	H	1	16530	L	4453	FO	89101107	071300	003700	503	G C=208,B=47
SCLPF	COMET BR	06		0223277	+305345	D	9	02218	2			89072703	034700	002000		G
SCLPF	COMET BR	06		0223277	+305344	L	1	15999	L	78	SO	89072704	040600	002000	42	G E=162,B=37
SCLPF	COMET BR	06		0223277	+305344	L	3	36746	L	79	SO	89072704	044500	012000	01	G B=24
SCLPF	COMET BR	06		0223277	+305344	L	1	16000	L	77	SO	89072707	072900	012000	3X4	G E=4X,C=78,B=52
SCLPF	COMET BR	06		0223277	+305344	L	3	36747	L	74	SO	89072710	102100	001500	50	G E=228,B=17
LGLSD	HD 15798	41	4.7	0229428	-152750	L	3	37556	L	21851		89111109	090700	003000	?00	G C=15X,B=18
LGLSD	HD 15798	41	4.7	0229428	-152750	H	1	16772	L	21906		89111109	094400	006000	X05	G C=3X,B=62
LC110	HD 16157	48	09.21	0232283	-440038	L	3	37513	L	00795	FO	89110318	180702	008000	111	V 2X40 MIN EXPOSURES
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16719	L	980	FO	89110203	035400	002000	352	G E=248,C=71,B=38

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37500	L	997	FO	89110204	043500	006000	30	G E=46,B=18
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16720	L	1007	FO	89110206	061600	001000	242	G E=159,C=52,B=34
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37501	L	1005	FO	89110206	064400	006000	32	G E=66,B=33
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16721	L	1014	FO	89110208	082800	000600	232	G E=126,C=50,B=36
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37502	L	1013	FO	89110208	085000	006000	22	G E=54,B=34
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16722	L	1006	FO	89110210	103600	000600	232	G E=128,C=48,B=32
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37504	L	905	FO	89110218	183700	006000	231	G E=50,C=43,B=28
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16725	L	972	FO	89110220	202800	000600	242	G E=134,C=50,B=34
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37505	L	958	FO	89110220	204600	006000	21	G E=38,B=22
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16726	L	1005	FO	89110222	223100	000600	232	G E=111,C=48,B=34
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37506	L	984	FO	89110222	224900	006000	21	G E=42,B=22
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16727	L	1029	FO	89110300	003100	000600	331	G E=102,C=50,B=26
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37507	L	1009	FO	89110300	004900	003000	21	G E=38,B=22
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16728	L			89110302	023600	000500		G
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16728	L	1044	FO	89110302	024600	000500	242	G E=140,C=52,B=36
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37508	L	1016	FO	89110302	025800	008000	31	G E=82,B=25
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16729	L	1043	FO	89110305	050600	000500	242	G E=137,C=53,B=36
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37509	L	1030	FO	89110305	053300	008000	32	G E=62,B=32
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16730	L	1034	FO	89110307	073500	000500	233	G E=137,C=57,B=41
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37510	L	1019	FO	89110308	080100	008000	32	G E=75,B=40
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16731	L	1018	FO	89110310	100500	000500	232	G E=129,C=52,B=35
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37513	L	795	FO	89110318	180700	008000	31	G E=66,B=28
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16734	L	971	FO	89110319	193900	000500	42	G E=163,B=35
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37514	L	962	FO	89110320	203000	005500	21	G E=38,B=23
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16735	L	979	FO	89110321	214300	000500	42	G E=180,B=36
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37515	L	972	FO	89110322	223800	008000	31	G E=57,B=26
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16736	L	835	FO	89110400	001400	001000	52	G E=205,B=35
FSLJL	HD 16157	46	8.9	0232283	-440038	L	3	37516	L	855	FO	89110401	010500	007500	31	G E=61,B=26
FSLJL	HD 16157	46	8.9	0232283	-440038	L	1	16737	L	839	FO	89110402	023200	000500	242	G E=169,C=48,B=35
LC095	HD16157	46	09.18	0232284	-440039	L	3	37192	L	00823	FO	89092620	201459	002000	130	V
LC095	HD16157	46	09.15	0232284	-440039	L	1	16431	L	00847	FO	89092620	205247	001200	261	V
LC095	HD 16157	46	09.17	0232284	-440039	L	3	37193	L	00832	FO	89092621	212525	008100	250	V LYA=245,C4=80
LC110	HD 16157	48	08.97	0232284	-440039	L	3	37503	L	00996	FO	89110210	105859	003000	040	V OFFSET R.P. = -37,-2
LC110	HD16157	48	08.87	0232284	-440039	L	3	37511	L	01088	FO	89110310	103205	008000	330	V 2X40 MIN EXPOSURES
LC110	HD16157	48	08.87	0232284	-440039	L	1	16732	L	01088	FO	89110312	122254	001000	342	V 2X5 MIN EXPOSURES
LSLKC	HD 17506	49	3.8	0247019	+554122	L	3	37606	L	631	FU	89111609	092000	008500	331	G E=98,C=51,B=22
LA031	HD 18296	36	05.52	0254150	+314400	H	3	37253	L	18616	FO	89100513	135834	002200	700	V SATURATED BEYOND
LA031	HD 18296	36	05.53	0254150	+314400	H	1	16482	L	18513	FO	89100514	145049	000900	701	V SATURATED 2650-2900
LA031	HD 18296	36	05.53	0254150	+314400	E	9	02247	2	18513	FO	89100514	145049	000900		V
LA031	HD 18296	36	05.52	0254150	+314400	H	3	37256	L	18210	FO	89100519	193832	002200	701	V SATURATED BEYOND
LA031	HD 18296	36	05.52	0254150	+314400	H	1	16486	L	18564	FO	89100520	201807	000900	701	V SATURATED 2650-2900
LA031	HD18296	36	05.55	0254150	+314400	H	3	37261	L	18222	FO	89100613	135229	002000	700	V SATURATED BEYOND
LA031	HD18296	36	05.56	0254150	+314400	H	1	16490	L	18140	FO	89100614	142333	001100	702	V SATURATED 2550-3000
LA031	HD18296	36	05.59	0254150	+314400	H	3	37262	L	17758	FO	89100615	151557	003000	701	V SATURATED BEYOND
LA031	HD18296	36	05.52	0254150	+314400	H	3	37265	L	18571	FO	89100620	202444	001700	700	V SATURATED BEYOND
LA031	HD 18926	36	05.47	0254150	+314400	H	3	37271	L	19213	FO	89100713	135054	001800	700	V SATURATED BEYOND
LA031	HD 18296	36	05.51	0254150	+314400	H	1	16499	L	18711	FO	89100714	142423	000900	701	V SATURATED 2550-3000
LA031	HD18296	36	05.47	0254150	+314400	H	3	37273	L	19244	FO	89100720	202207	001800	700	V SATURATED BEYOND
LA031	HD18296	36	05.46	0254150	+314400	H	1	16501	L	19283	FO	89100720	200512	000900	701	V SATURATED 2550-3000
LA031	HD18296	36	05.55	0254150	+314400	H	3	37284	L	18266	FO	89100817	175837	001700	700	V SATURATED BEYOND

PRO	Object	CL	MAG	R.A.	DEC	D C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
LA031	HD18296	36	05.52	0254150	+314400	H 1	16511	L	18589	FO	89100818	184646	000900	701	V SATURATED 2550-3000
LA031	HD18296	36	05.54	0254150	+314400	H 3	37285	L	18381	FO	89100819	191704	002500	701	V SATURATED BEYOND
LA031	HD18296	36	05.51	0254150	+314400	H 3	37286	L	18668	FO	89100820	201450	003300	701	V SATURATED BEYOND
LS101	P/BRORSEN-	06	99.99	0256510	+343417	L 3	36767	L	00000		89073020	201122	001000	100	V SKY 8 ARCMIN APART F
LS101	P/BRORSEN-	06	99.99	0256510	+343417	E 9	02219	2	00000		89073020	204700	004000		V
LS101	P/BRORSEN-	06	12.88	0258149	+344226	L 1	16028	L	00122	SO	89073021	211240	004500	611	V PREAD
LS101	COM P/B-M	06	12.88	0258230	+344405	L 3	36768	L	00122	SO	89073022	220605	003000	161	V EFFECTIVE T EXP = 26
LS101	COMET P/B-	06	12.92	0258230	+344405	D 9	02220	2	00117	SO	89073024	240000	016000		V
LS101	COMET P/B-	06	12.92	0258551	+344756	L 1	16029	L	00117	SO	89073023	230011	006000	611	V LAP20" TAILWARD
LS101	COMET P/B-	06	12.92	0300106	+345353	L 3	36769	L	00117	SO	89073100	001018	003000	150	V NUCLEUS X=394,Y=-13
LS101	COMET P/B-	06	12.91	0300106	+345353	L 3	36770	L	00118	SO	89073101	012950	002000	141	V NUCLEUS AT LWLA
LS101	COMET P/B-	06	12.91	0300195	+345449	L 1	16030	L	00118	SO	89073100	004832	008500	171	V NUCLEUS AT LWLA
LQ067	PKS0301-243	87	16.00	0301143	-241852	L 1	16088	L	00000	BO	89080716	163035	012800	303	V
LQ067	PKS0301-243	87	16.00	0301143	-241852	L 3	36809	L	00000	BO	89080815	153951	018000	300	V
SRLPJ	HD 19058	49	3.2	0301578	+383853	H 1	16069	L	1125	FU	89080513	135700	001300	343	G E=183,C=82,B=42
SRLPJ	HD 19058	49	3.2	0301578	+383853	H 1	16104	L	1190	FU	89081210	102500	001500	352	G E=227,C=64,B=37
SRLPJ	HD 19058	49	3.2	0301578	+383853	H 1	16171	L	1218	FU	89081910	100600	001200	43	G E=176,B=41
SRLPJ	HD 19058	49	3.2	0301578	+383853	H 1	16213	L	1203	FO	89082609	091600	001200	42	G E=183,B=35
SRLPJ	HD 19058	49	3.2	0301578	+383853	L 1	16214	L	1191	FU	89082610	100800	001340	52	G E=199,B=36
SRLPJ	HD 19058	49	3.2	0301578	+383853	H 1	16270	L	1147	FU	89090210	100800	001200	243	G E=171,C=70,B=50
SRLPJ	HD 19058	49	3.2	0301578	+383853	L 1	16310	L	1205	FU	89090911	112100	000050	352	G E=235,C=76,B=35
SRLPJ	HD 19058	49	3.2	0301578	+383853	H 1	16311	L	1183	FU	89090912	120400	001000	343	G E=186,C=72,B=47
SRLPJ	HD 19058	49	3.2	0301578	+383853	H 1	16364	L	1223	FU	89091511	113700	001100	343	G E=174,C=78,B=41
SRLPJ	HD 19058	49	3.2	0301578	+383853	H 1	16410	L	1176	FU	89092309	094000	001200	42	G E=166,B=36
SRLPJ	HD 19058	49	3.2	0301578	+383853	H 1	16456	L	1160	FU	89093012	120800	001200	49	G E=252,B=130
LI064	ALGOL	66	02.51	0304544	+404552	H 3	36979	L	02728	FU	89091020	203007	000023	500	V
CBLEG	ALGOL	66	2.1	0304544	+404551	H 3	36981	L	1585	FU	89091023	230700	000035	401	G C=158,B=28
LI064	ALGOL	66	02.52	0304544	+404552	H 1	16320	L	02696	FU	89091020	203551	000018	601	V
CBLEG	ALGOL	66	2.1	0304544	+404551	H 1	16322	L	1521	FU	89091023	231500	000025	503	G C=218,B=42
LI064	ALGOL	66	02.70	0304544	+404552	H 3	36980	L	02306	FU	89091021	214343	000026	500	V
CBLEG	ALGOL	66	2.1	0304544	+404551	H 3	36982	L	111	FU	89091100	001800	000110	401	G C=180,B=30
LI064	ALGOL	66	02.73	0304544	+404552	H 1	16321	L	02242	FU	89091021	215044	000020	601	V
CBLEG	ALGOL	66	2.1	0304544	+404551	H 1	16323	L	1046	FU	89091100	005300	000050	503	G C=240,B=42
LI064	ALGOL	66	02.43	0304544	+404552	H 1	16333	L	02929	FU	89091122	223934	000016	501	V
CBLEG	ALGOL	66	2.1	0304544	+404551	H 3	36983	L	1049	FU	89091101	010000	000145	502	G C=240,B=36
LI064	ALGOL	66	02.43	0304544	+404552	H 3	36996	L	02929	FU	89091122	224433	000023	500	V
CBLEG	ALGOL	66	2.1	0304544	+404551	H 3	36984	L	1311	FU	89091102	020300	000110	502	G C=218,B=38
LI064	ALGOL	66	02.59	0304544	+404552	H 1	16352	L	02545	FU	89091316	162244	000017	501	V
CBLEG	ALGOL	66	2.1	0304544	+404551	H 1	16324	L	1350	FU	89091102	021000	000045	X03	G C=1.5X,B=45
LI064	ALGOL	66	03.48	0304544	+404552	H 3	37019	L	01145	FU	89091322	222608	000045	400	V
CBLEG	ALGOL	66	2.1	0304544	+404551	H 3	36985	L	1895	FU	89091103	031500	000035	502	G C=190,B=35
CBLEG	ALGOL	66	2.1	0304544	+404551	H 1	16325	L	1947	FU	89091103	032000	000025	503	G C=250,B=41
CBLEG	HD 19356	66	2.1	0304544	+404551	H 1	16327	L	2890	FU	89091109	093700	000020	503	G C=245,B=48
CBLEG	HD 19356	66	2.1	0304544	+404551	H 3	36989	L	2867	FU	89091109	094300	000023	502	G C=205,B=35
CBLEG	HD 19356	66	2.1	0304544	+404551	H 3	36992	L	2870	FU	89091113	133900	000024	502	G C=210,B=37
CBLEG	HD 19356	66	2.1	0304544	+404551	H 1	16329	L	2879	FU	89091113	134500	000019	X03	G C=1.5X,B=45
CBLEG	HD 19356	66	2.1	0304544	+404551	H 1	16338	L	2872	FU	89091209	093200	000018	503	G C=247,B=46
CBLEG	HD 19356	66	2.1	0304544	+404551	H 3	37001	L	2861	FU	89091209	093700	000023	502	G C=204,B=35
CBLEG	HD 19356	66	2.1	0304544	+404551	H 3	37003	L	2996	FU	89091214	141100	000022	502	G C=199,B=36
CBLEG	HD 19356	66	2.1	0304544	+404551	H 1	16340	L	2993	FU	89091214	141500	000018	X03	G C=1.5X,B=41

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
OBLEG	HD 19356	66	2.1	0304544	+404551	H	3	37011	L	2873	FU	89091306	061300	000023	502 G	C=190,B=32
OBLEG	HD 19356	66	2.1	0304544	+404551	H	1	16347	L	2902	FU	89091306	061900	000017	503 G	C=250,B=42
OBLEG	HD 19356	66	2.1	0304544	+404551	H	3	37014	L	2893	FU	89091313	131800	000023	502 G	C=208,B=37
OBLEG	HD 19356	66	2.1	0304544	+404551	H	1	16350	L	2887	FU	89091313	132300	000017	X03 G	C=1.5X,B=42
OBLEG	HD 19356	66	2.1	0304544	+404551	H	3	37016	L	2835	FU	89091316	161700	000023	502 G	C=205,B=35
OBLEG	HD 19356	66	2.1	0304544	+404551	H	3	37021	L	2826	FU	89091403	032100	000023	502 G	C=190,B=32
OBLEG	HD 19356	66	2.1	0304544	+404551	H	1	16356	L	2833	FU	89091403	032600	000017	X02 G	C=1.5X,B=40
SKKAM	RX PUPPI	57	12.0	031228	-413318	L	3	36307	L	328	SO	89052008	080800	006000	3X1 G	E=1.5X,C=55,B=30
SKKAM	RX PUPPI	57	12.0	031228	-413318	L	1	15552	L	333	SO	89052009	091500	004000	3X3 G	E=1.5X,C=90,B=41
SKKAM	RX PUPPI	57	12.0	031228	-413318	L	1	15553	L	393	SO	89052010	105500	004000	3X3 G	E=1.5X,C=90,B=41
SKKAM	RX PUPPI	57	025/0	031228	-413318	L	3	36309	L	397	SO	89052011	114200	002500	230 G	E=69,C=28,B=20
SKKAM	RX PUPPI	57	12.0	031228	-413318	L	3	36310	L	390	SO	89052012	124000	007500	301 G	C=50,B=27
SKKAM	RX PUPPI	57	12.0	031228	-413318	L	1	15554	L	386	SO	89052014	140300	004500	333 G	E=107,C=62,B=41
ACLFB	HD 20888	30	6.1	0317247	-670630	L	3	36624	L	8465	FO	89070616	163600	000430	X00 G	C=6X,B=19
LS076	COMET P/B-	06	12.76	0317472	+362826	L	1	16043	L	00135	SO	89080118	185509	001500	160 V	NUCLEUS
LS076	COMET P/B-	06	12.77	0317472	+362826	E	9	02221	2	00134	SO	89080118	181500	016000	V	
LS076	COMET P/B-	06	12.77	0317472	+362826	L	1	16044	L	00134	SO	89080120	200950	002500	131 V	NUCLEUS IN SWLA
SCLPF	P/19890	06	12.5	0320552	+364317	L	3	36779	L			89080119	193200	036000	34 G	E=89,B=55
SCLPF	P/19890	06	12.5	0320552	+364317	H	1	16045	L			89080121	213900	018000	35 G	E=145,B=62
SCLPF	OMI19890	06	12.5	0320552	+364317	D	9	02222	1			89080201	012100	002000	G	
SCLPF	P/19890	06	12.5	0320552	+364317	L	1	16046	L	146	SO	89080203	034500	024000	3?5 G	E=10X,C=91,B=70
SCLPF	P/19890	06	12.5	0320552	+364317	L	1	16046	L	146	20	89080205	054200	003000	G	
SCLPF	P/19890	06	12.5	0320552	+364317	L	3	36780	L	137	SO	89080209	095000	001000	50 G	E=238,B=19
SCLPF	P/19890	06	12.5	0320552	+364317	L	1	16047	L	138	SO	89080210	105000	001500	52 G	E=214,B=37
SCLPF	P/19890	06	12.5	0320552	+364317	L	1	16048	L	140	SO	89080212	121300	002500	34 G	E=144,B=51
SCLPF	P/19890	06	12.5	0320552	+364317	L	1	16049	L	145	SO	89080213	131900	001000	43 G	E=173,B=44
SCLPF	P/19890	06	12.5	0320552	+364317	L	1	16050	L	147	SO	89080214	141500	003000	45 G	E=182,B=70
SCLPF	P/19890	06	12.5	0320552	+364317	L	3	36781	L		SO	89080214	141700	001500	41 G	E=132,B=22
SCLPF	P/19890	06	12.5	0320552	+364317	L	1	16051	L	148	SO	89080215	152400	002000	43 G	E=166,B=41
SOLAD	NGC 1326	81	11.5	0322010	-363829	L	1	15860	L		BO	89070604	041900	039000	407 G	C=192,B=83
SOLAD	NGC 1326	81	11.5	0322010	-363829	L	3	36644	L	148	SO	89070904	040900	040500	305 G	C=120,B=67
LQ067	H0323+022	87	16.50	0323381	+021447	L	1	16092	L	00000	BO	89080819	192852	012800	302 V	
LQ067	H0323+022	87	16.50	0323381	+021447	L	3	36820	L	00000	BO	89081015	152842	036800	302 V	
KITOO	GK PER	54	11.74	0327476	+434404	L	3	36804	L	00084	FO	89080621	214909	006000	552 V	
KITOO	GK PER	54	11.74	0327476	+434404	L	1	16081	L	00084	FO	89080622	225637	002200	552 V	
SCLTA	HD 22649	66	5.1	0337477	+630325	L	3	36796	L	23460	FO	89080412	125200	003000	331 G	E=77,C=50,B=28
SALCW	HD 23227	21	5.0	0340155	-320549	L	3	36719	L	21141	FO	89072215	152800	000010	500 G	C=223,B=18
SALCW	HD 23227	21	5.0	0340155	-320549	L	3	36719	L	21141	FO	89072215	152900	000010	500 G	C=223,B=18
SALCW	HD 23227	21	5.0	0340155	-320549	L	1	15979	L	22579	FO	89072216	160400	000006	502 G	C=217,B=34
LS101	BRORSEN-NE	06	12.56	0340430	+381151	E	9	02224	2	00162	SO	89080300	000000	016000	V	PREAD
LS101	BRORSEN-NE	06	12.46	0340430	+381151	L	1	16058	L	00177	SO	89080318	185037	006000	071 V	LWP 16058
LS101	BRORSEN-NE	06	12.46	0340430	+381151	E	9	02223	2	00177	SO	89080319	193000	016000	V	LWP 16058
LS101	BRORSEN-NE	06	12.55	0340430	+381151	L	3	36792	L	00163	SO	89080320	202324	003000	070 V	PREAD
LS101	BRORSEN-NE	06	12.61	0340430	+381151	L	1	16059	L	00155	SO	89080321	210250	001500	051 V	PREAD
LS101	BRORSEN-NE	06	12.57	0340430	+381151	L	1	16060	L	00160	SO	89080321	215301	006000	041 V	PREAD
LS101	BRORSEN-NE	06	12.56	0340430	+381151	E	9	02225	2	00162	SO	89080400	000000	004000	V	PREAD
USSBS	HD 23249	46	3.55	0340509	-095552	H	1	16847	L	710	FU	89112703	031500	001000	432 G	E=98,C=152,B=38
USSBS	HD 23249	46	3.55	0340509	-095552	H	1	16848	L	719	FU	89112704	040100	001500	543 G	E=148,C=210,B=41
EGLAC	HD 23180	23	3.8	0341099	+320752	H	3	37430	L	660	FU	89102300	003900	000120	503 G	C=205,B=43
EGLAC	HD 23180	23	3.8	0341099	+320752	H	3	37431	L	719	FU	89102301	012000	000120	503 G	C=202,B=42

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
EGLAC	HD 23180	23	3.8	0341099	+320752	H	3	37432	L	732	FU	89102301	015600	000120	403	G C=192,B=42
EGLAC	HD 23180	23	3.8	0341099	+320752	H	3	37433	L	709	FU	89102302	022700	000120	403	G C=172,B=41
EGLAC	HD 23180	23	3.8	0341099	+320752	H	3	37434	L	701	FU	89102302	025600	000120	503	G C=200,B=41
EGLAC	HD 23180	23	3.8	0341099	+320752	H	3	37435	L	666	FU	89102303	033000	000120	503	G C=200,B=42
EGLAC	HD 23180	23	3.8	0341099	+320752	H	3	37436	L	720	FU	89102304	040200	000120	503	G C=193,B=41
EGLAC	HD 23180	23	3.82	0341099	+320752	H	3	37437	L	763	FU	89102306	062300	000120	403	G C=180,B=41
EGLAC	HD 23180	23	3.82	0341099	+320752	H	3	37438	L	750	FU	89102307	070400	000120	402	G C=170,B=38
LS101	ERORSEN-NE	06	12.56	0342598	+381313	L	3	36793	L	00162	SO	89080323	231016	004000	051	V PREAD-SKY
LA023	HD23862	26	05.48	0346124	+235907	H	1	16443	L	19015	FO	89092721	213210	000445	601	V
LA023	HD 23862	26	05.48	0346124	+235907	H	3	37197	L	19015	FO	89092721	214244	001000	601	V
LA023	HD23862	26	05.47	0346124	+235907	L	1	16444	L	19229	FO	89092722	225151	000003	601	V
LA023	HD 23862	26	05.47	0346124	+235907	L	3	37198	L	19229	FO	89092722	224849	000005	601	V
KA041	HD23862	26	05.51	0346124	+235908	H	3	37405	L	18686	FO	89102013	133702	000630	305	V HIGH BACKGROUND
KA041	HD23862	26	05.49	0346124	+235908	H	1	16580	L	18892	FO	89102014	142443	000400	909	V HIGH BACKGROUND
HCLSP	HD 24744	39	5.7	0352379	-403011	L	1	16701	L	10976	FO	89103107	072900	000100	X02	G C=1.5X,B=35
HCLSP	HD 24744	39	5.7	0352379	-403011	L	3	37489	L	10798	FO	89103107	073500	000400	500	G C=245,B=18
LS076	ERORSEN ME	06	11.82	0353092	+385855	L	1	16062	L	00313	SO	89080419	193842	021000	033	V EFFECTIVE EXPOSURE T
ISLPF	HD 24817	30	6.1	0354218	+055349	H	1	16374	L	8162		89091805	052000	003500	X03	G C=1.5X,B=50
ISLPF	HD 24817	30	6.1	0354218	+055349	H	3	37065	L	8532	FO	89091806	060700	001800	402	G C=150,B=36
OBLJN	HD 24912	14	4.0	0355429	+353859	H	3	37328	L	549	FU	89101705	053700	000110	502	G C=205,B=35
OBLJN	HD 24912	14	4.0	0355429	+353859	H	3	37331	L	544	FU	89101708	081800	000110	502	G C=210,B=35
OBLJN	HD 24912	14	4.0	0355429	+353859	H	3	37334	L	540	FU	89101711	110500	000110	502	G C=205,B=38
LA015	HD24912	14	04.31	0355430	+353900	H	3	37337	L	00549	FU	89101713	135019	000110	500	V
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37349	L	556	FU	89101723	230500	000110	503	G C=222,B=41
LA015	HD24912	14	04.30	0355430	+353900	H	3	37340	L	00553	FU	89101715	155528	000110	500	V
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37352	L	559	FU	89101801	012900	000110	503	G C=220,B=41
LA015	HD24912	14	04.29	0355430	+353900	H	3	37343	L	00558	FU	89101717	175828	000110	500	V
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37355	L	551	FU	89101803	035200	000110	503	G C=217,B=41
LA015	HD24912	14	04.30	0355430	+353900	H	3	37346	L	00553	FU	89101720	201015	000110	500	V
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37358	L	550	FU	89101806	062100	000110	502	G C=200,B=38
LA015	HD24912	14	04.29	0355430	+353900	H	3	37367	L	00555	FU	89101817	172538	000110	500	V
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37361	L	560	FU	89101808	085000	000110	502	G C=222,B=40
LA015	HD24912	14	04.30	0355430	+353900	H	3	37370	L	00550	FU	89101819	194339	000110	500	V
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37364	L	560	FU	89101811	111900	000110	502	G C=212,B=40
LA015	HD24912	14	04.30	0355430	+353900	H	3	37391	L	00553	FU	89101913	131253	000110	500	V
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37373	L	554	FU	89101822	221200	000110	503	G C=216,B=42
LA015	HD 24912	14	04.29	0355430	+353900	H	3	37393	L	00558	FU	89101917	173541	000110	500	V PREAD
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37376	L	550	FU	89101900	003300	000110	503	G C=219,B=41
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37379	L	556	FU	89101902	025800	000110	503	G C=220,B=42
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37382	L	560	FU	89101905	052800	000110	502	G C=218,B=40
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37385	L	557	FU	89101907	075500	000110	502	G C=220,B=39
OBLJN	HD 24912	14	4.0	0355430	+353900	H	3	37388	L	555	FU	89101910	105000	000110	502	G C=220,B=38
SCLMA	SKY BKGD	07		0356454	+391120	L	3	36798	L			89080419	194000	017300	X2	G E=1.5X,B=35
SCLMA	CMT19890	06		0356454	+391120	D	9	02227	2			89080504	045900	002000		G
SCLMA	CMT19890	06		0356454	+391120	L	1	16063	L	202	SO	89080505	054200	000800	42	G E=176,B=37
SCLMA	CMT19890	06		0356454	+391120	L	1	16064	L	202	SO	89080506	065600	000500	32	G E=132,B=36
SCLMA	CMT19890	06		0356454	+391120	L	1	16065	L	156	SO	89080507	073700	001800	42	G E=164,B=36
HCLSP	HD 25555	39	5.5	0401219	+235812	L	1	16224	L	12849	FO	89082712	121400	000036	X02	G C=1.5X,B=34
HCLSP	HD 25555	39	5.5	0401219	+235812	L	3	36889	L	13238	FO	89082712	121900	000122	500	G C=185,B=18
HCLSP	HD 25007	39	5.1	0401337	+803356	L	3	37646	L	18438	FO	89112109	095600	000120	500	G C=175,B=18

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
HCLSP	HD 25007	39	5.1	0401337	+803356	L	1	16806	L	17935	FO	89112110	100100	000030	X02	G C=1.5X,B=35
DNLCM	VW HYI	54	9.5	040933.	-712527	L	3	36724	L	153	FO	89072315	155300	000200	300	G C=110,B=15
DNLCM	VW HYI	54	9.5	040933.	-712527	H	3	36725	L	156	FO	89072316	162700	014300	303	G C=118,B=42
ISLPF	HD 26793	22	5.2	0411521	+095311	H	3	37410	L	17431	FO	89102022	224100	001200	X09	G C=3X,B=105
ISLPF	HD 26793	22	5.2	0411521	+095311	H	1	16585	L	17751	FO	89102023	230500	000800	X09	G C=2X,B=132
ISLPF	HD 26793	22	5.2	0411521	+095311	H	3	37411	L	18601	FO	89102100	002600	000240	406	G C=220,B=72
ISLPF	HD 26793	22	5.2	0411521	+095311	H	1	16586	L	19931	FO	89102100	004700	000240	X09	G C=1.5X,B=106
ISLPF	HD 26793	22	5.2	0411521	+095311	H	3	37412	L	19164	FO	89102102	020800	000745	406	G C=208,B=74
ISLPF	HD 26793	22	5.2	0411521	+095311	H	3	37413	L	19660	FO	89102102	025600	000235	505	G C=213,B=61
ISLPF	HD 26793	22	5.2	0411521	+095311	H	1	16587	L	18676	FO	89102103	034600	000800	X08	G C=2X,B=93
ISLPF	HD 26793	22	5.2	0411521	+095311	H	1	16588	L	18800	FO	89102104	042700	000600	X06	G C=1.5X,B=78
ISLPF	HD 26793	22	5.2	0411521	+095311	H	1	16606	L	17474	FO	89102211	114000	000220	504	G C=210,B=54
ISLPF	HD 26793	22	5.2	0411521	+095311	H	1	16607	L	17368	FO	89102212	124100	000500	503	G C=234,B=48
CCLTS	X 0416+173	46	12.3	0415591	+171601	L	1	16676	L	141	SO	89102722	221500	009000	334	G E=122,C=80,B=58
TTLGB	BP TAU	58	12.6	0416085	+285914	L	1	16660	L	166	SO	89102607	072800	003000	309	G E=2X,C=165,B=130
HMLDL	HD 27295	27	5.4	0416290	+210123	L	3	37316	L	14703	FO	89101510	102600	000029	501	G C=191,B=27
HMLDL	HD 27295	27	5.4	0416290	+210123	L	1	16563	L	14519	FO	89101511	110600	000019	502	G C=219,B=35
LC040	HD27371	47	04.13	0416567	+153031	L	1	16210	L	00643	FU	89082521	212115	000020	501	V
CCLTS	BD +18 623	44	7.5	0417180	+190654	H	1	16679	L	2622	FO	89102807	070700	008000	339	G E=182,C=222,B=138
TTLGB	RY TAU	58	10.4	0418508	+281935	L	1	16650	L	218	FO	89102509	093800	003000	309	G E=2X,C=243,B=190
TTLGB	RY TAU	58	10.4	0418508	+281935	L	1	16651	L	210	FO	89102510	105000	002000	309	G E=1.5XC=184,B=141
TTLGB	RY TAU	58	10.4	0418508	+281935	L	1	16652	L	212	FO	89102511	114700	000700	336	G E=161,C=103,B=73
TTLGB	RY TAU	58	10.4	0418508	+281935	L	1	16653	L	210	FO	89102512	122700	002000	309	G E=1.5X,C=179,B=130
ISLPF	HD 278192	31	4.80	0421125	+171946	H	3	37427	L	22095	FO	89102207	072900	001300	402	G C=145,B=38
ISLPF	HD 27819	31	4.80	0421125	+171946	H	1	16603	L	22090	FO	89102208	083500	000800	406	G C=220,B=79
ISLPF	HD 27819	31	4.80	0421125	+171946	H	3	37428	L	22302	FO	89102208	085200	001800	405	G C=195,B=68
ISLPF	HD 27819	31	4.80	0421125	+171946	H	1	16604	L	22057	FO	89102209	093200	000800	503	G C=218,B=50
ISLPF	HD 27819	31	4.80	0421125	+171946	H	1	16605	L	22295	FO	89102210	101900	000845	503	G C=210,B=50
ISLPF	HD 27819	31	4.80	0421125	+171947	H	3	37447	L	240	FU	89102405	054400	000600	403	G C=150,B=41
ISLPF	HD 27819	31	4.80	0421125	+171946	H	3	37468	L	24804	FO	89102622	222300	000900	403	G C=169,B=42
CCLTS	HD 285720	46	10.0	0421229	+175321	L	1	16680	L	26	FO	89102809	091500	001500	333	G E=68,C=65,B=41
CCLTS	HD 285720	46	10.0	0421229	+175321	L	1	16682	L	246	FO	89102811	114400	006500	333	G E=105,C=96,B=43
CCLTS	BD +16 593	46	10.3	0422080	+165218	L	1	16681	L	208	FO	89102810	102100	003500	333	G E=82,C=70,B=42
LQ067	PKS0422+00	87	16.00	0422125	+002917	L	1	16089	L	00000	BO	89080719	195831	010000	303	V
CCLTS	HD 28068	44	8.1	0423319	+164430	H	1	16678	L	1513	FO	89102804	041100	011000	334	G E=113,C=124,B=59
TTLGB	DF TAU	58	11.7	0423596	+253542	L	1	16662	L	212	SO	89102610	102600	004000	347	G E=230,C=150,B=84
CCLTS	X 0424+177	46	10.3	0424172	+174403	L	1	16687	L	207	FO	89102904	041100	004000	332	G E=107,C=135,B=40
CCLTS	HD 28205	41	7.4	0424446	+152844	H	1	16685	L	2589	FO	89102822	221700	010500	434	G E=112,C=179,B=59
CCLTS	X 0429+170	46	12.5	0428345	+170002	L	1	16677	L	104	SO	89102801	010400	012000	334	G E=86,C=90,B=59
CCLTS	X 0429+178	46	12.1	0429157	+175104	L	1	16686	L	172	SO	89102901	011100	013500	334	G E=90,C=81,B=58
TTLGB	GG TAU	58	12.3	0429371	+172522	L	1	16661	L	167	SO	89102609	090400	003000	349	G E=244,C=141,B=110
TTLGB	DL TAU	58	13.1	0430360	+251424	L	1	16663	L	65	SO	89102611	115800	005000	338	G E=165,C=135,B=91
HCLSP	HD 29104	39	6.4	0432465	+194649	L	1	16225	L	6206	FO	89082713	133900	000300	X02	G C=1.5X,B=35
HCLSP	HD 29104	39	6.4	0432465	+194649	L	3	36890	L	6266	FO	89082713	134800	002400	400	G C=160,B=20
ISLPF	HD 30211	21	4.0	0443000	-032041	H	3	37402	L	561	FU	89102011	110100	000824	X09	G C=5X,B=145
ISLPF	HD 30211	21	4.0	0443000	-032041	H	3	37403	L	565		89102011	115200	000100	402	G C=180,B=38
ISLPF	HD 30211	21	4.0	0443000	-032041	H	3	37404	L	564	FU	89102012	122600	000120	503	G C=220,B=42
ISLPF	HD 30211	21	4.0	0443000	-032041	H	1	16589	L	568	FU	89102105	052200	000100	503	G C=230,B=49
ISLPF	HD 30211	21	4.0	0443000	-032041	H	3	37414	L	567	FU	89102105	052800	000221	504	G C=235,B=55
ISLPF	HD 30211	21	4.0	0443000	-032041	H	3	37415	L	568	FU	89102106	062900	000042	503	G C=222,B=50

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
ISLPF	HD 30211	21	4.0	0443000	-032041	H	1	16590	L	564	FU	89102107	072600	000120	X03	G C=1.5X,B=50
ISLPF	HD 30211	21	4.0	0443000	-032041	H	1	16591	L	559	FU	89102108	080300	000120	X03	G C=1.5X,B=50
TTLGB	DR TAU	58	12.0	0444132	+165324	L	1	16659	L	320	SO	89102606	060300	001500	344	G E=163,C=130,B=58
OBLOG	SK-69 08	24	11.5	0449354	-693058	L	1	15648	L	252	SO	89060313	132900	001100	502	G C=195,B=36
OBLOG	SK-69 08	24	11.5	0449354	-693058	L	3	36388	L	246	SO	89060314	140100	003500	401	G C=138,B=26
OBLOG	SK-69 08	24	11.5	0449354	-693058	L	3	36400	L	294	SO	89060612	120400	005000	501	G C=190,B=22
LC119	HD 31398	47	03.12	0453439	+330519	L	3	37189	L	01581	FU	89092515	154531	021000	361	V
LC119	HD 31398	47	03.12	0453439	+330519	H	1	16423	L	01589	FU	89092519	192532	001200	341	V
LC119	HD31398	47	03.12	0453440	+330520	H	1	16415	L	01582	FU	89092316	160022	041000	883	V
LC119	HD 31398	47	03.14	0453440	+330520	H	1	16424	L	01557	FU	89092520	202508	006000	361	V
OBLOG	SK-68 08	24	11.1	0453542	-684739	L	3	36415	L	428	SO	89060718	182200	002800	500	G C=172,B=17
OBLOG	SK-68 08	24	11.1	0453542	-684739	L	1	15674	L	426	SO	89060719	191500	000730	501	G C=182,B=28
OBLOG	SK-69 32	24	12.1	0455140	-694129	L	1	15649	L	149	SO	89060314	145400	001700	502	G C=195,B=40
OBLOG	SK-69 32	24	12.1	0455140	-694129	L	3	36389	L	147	SO	89060315	152900	005000	403	G C=170,B=41
LBLSS	S12/LMC	26	12.6	0457400	-675208	L	3	36709	L	114	SO	89072018	182600	002500	300	G C=101,B=18
IMLDM	HR 1609	22	7.0	0457547	+033233	H	1	16534	L	3901	FO	89101111	114500	002100	403	G C=180,B=42
IMLDM	HR 1609	22	7.0	0457547	+033233	H	1	16552	L	3867	FO	89101308	082400	002500	504	G C=212,B=52
IMLDM	HR 1609	22	7.0	0457547	+033233	H	1	16553	L	3954	FO	89101309	092700	002500	504	G C=206,B=52
IMLDM	HR 1609	22	7.0	0457547	+033233	H	1	16554	L	3975	FO	89101310	103000	002500	504	G C=207,B=52
IMLDM	HR 1610	22	6.7	0457561	+033236	H	1	16531	L	5383	FO	89101108	085100	001600	504	G C=217,B=52
IMLDM	HR 1610	22	6.7	0457561	+033236	H	1	16532	L	5354	FO	89101109	094800	001500	504	G C=210,B=51
IMLDM	HR 1610	22	6.7	0457561	+033236	H	1	16533	L	5458	FO	89101110	104300	001500	503	G C=208,B=42
IMLDM	HR 1610	22	6.7	0457561	+033236	H	1	16555	L	5456	FO	89101311	113400	001500	503	G C=211,B=41
IMLDM	HR 1610	22	6.7	0457561	+033236	H	1	16556	L	5338	FO	89101312	122700	001500	503	G C=215,B=45
OBLOG	SK-69 52	23	11.5	0458113	-695651	L	1	15651	L	273	SO	89060318	181500	000600	403	G C=190,B=43
OBLOG	SK-69 52	23	11.5	0458113	-695651	L	3	36391	L	266	SO	89060318	184700	001340	401	G C=132,B=25
OBLOG	SK-69 52	23	11.5	0458113	-695651	L	1	16024	L	260	SO	89073014	140200	000700	503	G C=220,B=48
OBLOG	SK-69 52	23	11.5	0458113	-695651	L	3	36764	L	257	SO	89073014	143800	002300	502	G C=215,B=35
OBLOG	SK-65 04	23	12.3	0458316	-655421	L	1	15904	L	145	SO	89071211	115100	000930	402	G C=178,B=35
OBLOG	SK-65 04	23	12.3	0458317	-655422	L	3	36666	L	141	SO	89071212	121000	002300	501	G C=186,B=21
LC137	HD32068	47	04.06	0458587	+410016	H	1	16773	L	00686	FU	89111111	110735	001000	602	V
LC137	HD32068	47	04.06	0458587	+410016	H	3	37557	L	00682	FU	89111112	122810	001800	500	V
LC137	HD32068	47	04.07	0458587	+410016	H	1	16774	L	00680	FU	89111113	130529	001000	602	V
LC137	HD32068	47	04.03	0458587	+410016	H	3	37558	L	00701	FU	89111113	134228	001800	500	V
LC137	HD32068	47	04.09	0458587	+410016	H	1	16775	L	00664	FU	89111114	141314	001000	602	V
LC137	HD32068	47	99.99	0458587	+410017	H	3	37559	L	00000		89111114	145300	001800	500	V BAD SCAN DURING 2ND
OBLOG	SK-65 16	23	12.	0459342	-654917	L	3	36425	L	177	SO	89060320	200500	002800	X00	G C=1.5X,B=17
OBLOG	SK-65 16	23	12.	0459342	-654917	L	1	15682	L		SO	89060320	203800	000930	502	G C=197,B=35
OBLOG	SK-70 30	23	12.1	0459517	-701259	L	1	15650	L	160	SO	89060316	163800	001600	504	G C=212,B=60
OBLOG	SK-70 30	24	12.1	0459517	-701259	L	3	36390	L	167	SO	89060317	171000	004000	407	G C=195,B=90
KA107	GR 3	13	14.45	0459580	-701330	L	1	15471	L	00030	SO	89050703	032232	000500	200	V PARTIAL READ
KA107	GR 3	13	00.14	0459580	-701330	L	3	36209	L	00000	BO	89050704	041855	006000	031	V
KA107	GR 3	13	00.14	0459580	-701330	L	1	15472	L	00000	BO	89050705	052714	006000	000	V
OD61Y	HD 32296	30	6.6	0500359	+454239	L	1	16745	L	6173	FO	89110506	065400	000045	552	G E=239,C=242,B=35
OBLOG	SK-65 19	23	12.1	0500551	-660030	L	1	15905	L	185	SO	89071213	130700	001000	502	G C=208,B=36
OBLOG	SK-65 19	23	12.1	0500551	-660030	L	3	36667	L	191	SO	89071213	134100	002000	500	G C=205,B=19
OBLOG	SK-67 36	23	12.0	0501240	-672424	L	3	36416	L	184	SO	89060720	200600	003000	500	G C=195,B=17
OBLOG	SK-67 36	23	12.0	0501240	-672424	L	1	15675	L	224	SO	89060720	204000	001100	502	G C=212,B=32
OBLOG	SK-70 44	24	12.0	0502395	-704405	L	1	15742	L	183	SO	89061713	130800	001400	503	G C=200,B=43
OBLOG	SK-70 44	24	12.0	0502395	-704405	L	3	36541	L	170	SO	89061713	134400	004600	503	G C=208,B=43

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
HCLSP	HD 32835	39	7.6	0503584	+265550	L	1	16703	L	2183	FO	89103109	094700	001800	X03	G C=2X,B=42
OBLCG	SK-70 48	23	11.7	0504013	-704603	L	3	36414	L	240	SO	89060717	170300	003000	500	G C=169,B=17
OBLCG	SK-70 48	23	11.7	0504013	-704603	L	1	15673	L	235	SO	89060717	174200	001000	502	G C=192,B=35
OBLCG	SK-70 51	24	11.9	0504206	-701759	L	1	15652	L	211	SO	89060319	193400	001200	502	G C=205,B=36
OBLCG	SK-70 51	24	11.9	0504206	-701759	L	3	36392	L	202	SO	89060320	201100	003500	401	G C=150,B=25
TILGB	RW AUR	58	10.2	0504377	+302014	L	1	16645	L	266	FO	89102505	055200	001000	409	G E=3X,C=217,B=112
TILGB	RW AUR	58	10.2	0504377	+302014	L	1	16646	L	280	FO	89102506	063800	000800	309	G C=202,B=108
TILGB	RW AUR	58	10.2	0504377	+302014	L	1	16647	L	275	FO	89102507	072800	000230	355	G E=242,C=105,B=65
TILGB	RW AUR	58	10.2	0504377	+302014	L	1	16648	L	270	FO	89102508	080300	000200	355	G E=253,C=98,B=66
TILGB	RW AUR	58	10.2	0504377	+302014	L	1	16649	L	269	FO	89102508	083800	000145	354	G E=240,C=92,B=60
LELSS	SKY BKD	26	12.5	0504493	-684856	L	1	15967	L	151	SO	89072011	115400	004000	503	G C=208,B=44
LELSS	S78/LMC	26	12.5	0504493	-684856	L	3	36707	L	152	SO	89072012	124100	008000	02	G B=38
ODGIY	HD 32948	45	8.0	0505183	+440323	L	1	16748	L	1694	FO	89110509	092100	000110	202	G C=52,B=32
ODGIY	HD 40957	30	7.2	0505183	+440323	L	1	16749	L	3168	FO	89110510	101800	000130	502	G C=218,B=33
IMLPF	HD 33111	32	2.8	0505234	-050859	H	1	16575	L	1475	FU	89102005	050300	000248	X08	G C=3X,B=95
IMLPF	HD 33111	32	2.8	0505234	-050859	H	3	37400	L	1486	FU	89102005	051200	000140	405	G C=200,B=62
IMLPF	HD 33111	32	2.8	0505234	-050859	H	1	16576	L	1487	FU	89102006	062300	000224	X06	G C=2X,B=80
IMLPF	HD 33111	32	2.8	0505234	-050859	H	1	16577	L	1501	FU	89102007	072700	000018	303	G C=132,B=50
IMLPF	HD 33111	32	2.8	0505234	-050859	H	3	37401		1503	FU	89102007	074600	000101	504	G C=212,B=58
IMLPF	HD 33111	32	2.8	0505234	-050859	H	1	16578		1490	FU	89102008	084300	000224	X05	G C=2X,B=70
IMLPF	HD 33111	32	2.8	0505234	-050859	H	1	16579	L	1492	FU	89102009	092900	000112	X08	G C=2X,B=92
IMLPF	HD 33111	32	2.8	0505234	-050859	H	1	16671	L	1537	FU	89102709	091000	000040	403	G C=180,B=43
IMLPF	HD 33111	32	2.8	0505234	-050859	H	1	16672	L	1549	FU	89102710	100000	000040	403	G C=184,B=43
SOLAD	NGC 1808	81	11.0	0505584	-373446	L	3	36827	L		BO	89081223	232700	022200	09	G B=162
SOLAD	NGC 1808	81	11.0	0505584	-373446	L	1	16309	L	126	SO	89090903	033800	019500	206	G C=100,B=80
LELSS	S80/LMC	26	12.5	0506392	-683433	L	3	36702	L	182	SO	89071904	041300	002000	200	G C=40,B=20
LELSS	S80/LMC	26	12.5	0506392	-683433	L	1	15957	L	194	SO	89071904	045200	001500	302	G C=100,B=38
LELSS	S80/LMC	26	12.5	0506392	-683433	L	3	36703	L	185	SO	89071905	054200	010000	301	G C=121,B=30
LELSS	S80/LMC	26	12.5	0506392	-683433	L	1	15958	L	283	SO	89071907	074600	001000	X02	G C=1.5X,B=32
ODGIY	HD 33332	30	8.1	0508118	+453548	L	1	16746	L	2252	FO	89110507	074100	000230	552	G E=246,C=230,B=35
LI049	N LMC 88#2	55	00.18	0508139	-684122	L	1	15599	L	00000	BO	89052600	000527	040200	303	V
LI049	NOVA LMC88	55	15.00	0508140	-684123	L	3	36318	L	00000	BO	89052123	235444	041500	361	V
CVLSS	LMC 88-2	55	18	0508140	-684122	L	3	36615	L		BO	89070504	040100	041000	335	G E=94,C=100,B=70
ISLPF	HD 33802	22	4.4	0509578	-115540	H	3	37416	L	430	FU	89102108	085400	000108	403	G C=190,B=45
ISLPF	HD 33802	22	4.4	0509578	-115540	H	3	37417	L	431	FU	89102109	094600	000115	503	G C=210,B=48
ISLPF	HD 33802	22	4.4	0509578	-115540	H	1	16592	L	433	FU	89102110	104300	000047	403	G C=200,B=50
ISLPF	HD 33802	22	4.4	0509578	-115540	H	1	16593	L	432	FU	89102111	113900	000300	X04	G C=2X,B=56
ISLPF	HD 33802	22	4.4	0509578	-115540	H	3	37418	L	438	FU	89102112	121400	000115	503	G C=198,B=46
ISLPF	HD 33802	22	4.4	0509578	-115540	H	1	16601	L	410	FU	89102205	053500	000200	503	G C=235,B=48
ISLPF	HD 33802	22	4.4	0509578	-115540	H	3	37426	L	413	FU	89102205	054100	000115	502	G C=198,B=40
ISLPF	HD 33802	22	4.4	0509578	-115540	H	1	16602	L	414	FU	89102206	063300	000225	X03	G C=1.5X,B=48
OBLCG	SK-68 59	23	12.1	0510090	-685915	L	3	36699	L	186	SO	89071815	154400	003000	500	G C=180,B=20
OBLCG	SK-68 59	23	12.1	0510090	-685915	L	1	15954	L	188	SO	89071816	162400	001100	502	G C=200,B=37
KA069	R81	23	10.79	0510371	-684953	E	9	02194	2	00197	FO	89051523	231500	004000		V
KA069	R81	23	10.79	0510371	-684953	L	1	15524	L	00197	FO	89051600	004945	001000	702	V
KA069	R81	23	10.81	0510371	-684953	L	3	36273	L	00193	FO	89051601	010609	002500	800	V
HMLDL	HD 33904	27	3.3	0510410	-161548	L	3	37315	L	1031	FU	89101508	085800	000004	501	G C=208,B=21
HMLDL	HD 33904	27	3.3	0510410	-161548	L	3	37315	L	1031	FU	89101508	085800	000004	301	G C=99,B=22
HMLDL	HD 33904	27	3.3	0510410	-161548	L	1	16562	L	1047	FU	89101509	093300	000002	502	G C=206,B=36
HSKOG	HD 269128	52	10.5	051044	-324742	L	1	15483	L	183	FO	89050908	082000	000440	502	G C=244,B=35

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
HSKOG	HD 269128	52	10.5	051044	-324742	L	3	36227	L	184	FO	89050908	083200	000700	400	G C=130,B=18
HSKOG	HD 269128	52	10.5	051044	-324742	H	1	15484	L	191	FO	89050909	090800	028000	X48	G E=228,C=255,B=99
HSKOG	HD 269128	52	10.5	051044	-324742	L	3	36228	L	182	FO	89050914	140300	001000	401	G C=165,B=21
HSKOG	HD 269128	52	10.5	051044	-324742	L	1	15485	L	187	FO	89050914	143700	000440	502	G C=240,B=32
HSKOG	HD 269128	52	10.5	0510440	-684947	H	1	15525	L	196	FO	89051601	014100	044000	XX6	G E=2X,C=2X,B=75
LA099	HD34085	25	00.43	0512079	-081529	H	1	16706	L	15689	FU	89103113	134233	000003	603	V
OBLOG	SK-67 58	24	11.3	0512201	-672253	L	1	15906	L	333	SO	89071214	142700	000900	502	G C=198,B=39
OBLOG	SK-67 58	24	11.3	0512201	-672253	L	3	36668	L	343	SO	89071214	145800	003200	501	G C=188,B=22
OBLFF	HD 34802	47	7.7	0512417	-771632	L	3	37652	L	1690	FO	89112200	000900	016200	233	G E=71,C=60,B=42
OBLOG	SK-69 72	24	11.9	0512534	-692036	L	3	36540	L	195	SO	89061711	114100	007000	502	G C=218,B=38
OBLOG	SK-69 72	24	11.9	0512535	-692037	L	3	36413	L	202	SO	89060714	141200	012000	X02	G C=2X,B=32
OBLOG	SK-69 72	24	11.9	0512535	-692037	L	1	15672	L	205	SO	89060716	162000	002400	402	G C=175,B=37
CSLTA	HD 34029	45	0.2	0512594	+455657	L	3	37544	L	15143	FU	89111006	061300	000320	X50	G E=196,C=5X,B=18
EGLAC	HD 34078	12	5.8	0512598	+341524	H	3	37429	L	9733	FO	89102222	221500	001400	X09	G C=1.5X,B=101
EGLAC	HD 34078	12	5.8	0512598	+341524	H	1	16610	L	9780	FO	89102222	224000	000700	X09	G C=2X,B=150
EGLAC	HD 34078	12	5.8	0512598	+341524	H	1	16611	L	9743	FO	89102223	233900	000830	408	G C=196,B=96
OBLOG	SK-67 66	24	11.6	0514052	-672311	L	3	36421	L	290	SO	89060813	134200	004000	500	G C=204,B=17
OBLOG	SK-67 66	24	11.6	0514052	-672311	L	1	15678	L	277	SO	89060814	143000	001100	502	G C=200,B=34
NPKHB	IC 2120	70	15.0	0514459	+373003	L	3	37029	L		BO	89091502	024600	009000	01	G B=21
PHCAL	HD 34816	20	4.29	0517161	-131336	H	1	16756	L	483	FU	89110706	064300	000022	503	G C=200,B=42
PHCAL	HD 34816	20	4.3	0517162	-131337	H	1	16308	L	492	FU	89090902	022300	000022	502	G C=205,B=40
PHCAL	HD 34816	20	4.3	0517162	-131337	H	3	37295	L	485	FU	89101007	073200	000022	402	G C=170,B=34
PHCAL	HD 34816	20	4.3	0517162	-131337	H	1	16526	L	478	FU	89101007	073700	000022	503	G C=202,B=41
PHCAL	HD 34816	20	4.3	0517162	-131337	H	3	37657	L	536	FU	89112304	041700	000022	402	G C=162,B=36
PHCAL	HD 34816	20	4.3	0517162	-131337	H	1	16813	L	540	FU	89112304	042200	000022	403	G C=170,B=41
OBLOG	SK-70 85	23	12.3	0517358	-702229	L	3	36700	L	135	SO	89071817	171900	002500	500	G C=185,B=18
OBLOG	SK-70 85	23	12.3	0517358	-702229	L	1	15955	L	146	SO	89071818	180400	001100	502	G C=208,B=36
MLKPM	LMC-N195	12	12.	0518249	-711759	L	3	36587	L	123	SO	89062919	190100	003000	00	G B=19
OBLOG	SK-65 40	24	11.8	0518438	-654422	L	1	15688	L	199	SO	89060914	140900	001100	502	G C=210,B=33
OBLOG	SK-65 40	24	11.8	0518438	-654422	L	3	36431	L	197	SO	89060914	142800	003500	500	G C=205,B=17
OBLOG	SK-69100	24	11.7	0519011	-693519	L	1	15704	L	236	SO	89061113	131900	001330	502	G C=188,B=35
OBLOG	SK-69100	24	11.7	0519011	-693519	L	3	36449	L	237	SO	89061113	134900	004800	500	G C=186,B=18
IMLPF	HD 34904	30	5.5	0519194	+405856	H	1	16666	L	15035	FO	89102623	234500	000700	303	G C=120,B=42
IMLPF	HD 34904	30	5.5	0519194	+405856	H	1	16667	L	15539	FO	89102700	003200	000700	404	G C=186,B=52
IMLPF	HD 34904	30	5.5	0519194	+405856	H	3	37469	L	15513	FO	89102701	012600	002100	504	G C=232,B=53
IMLPF	HD 34904	30	5.5	0519194	+405856	H	1	16668	L	14800	FO	89102702	025300	000830	404	G C=188,B=56
IMLPF	HD 34904	30	5.5	0519194	+405856	H	3	37470	L	14939	FO	89102704	040100	001830	404	G C=200,B=51
IMLPF	HD 34904	30	5.5	0519194	+405856	H	1	16669	L	14588	FO	89102705	052500	000930	504	G C=228,B=59
IMLPF	HD 34904	30	5.5	0519194	+405856	H	1	16670	L			89102706	065900	001900	X09	G C=2X,B=105
KA107	BI 141	23	12.43	0519270	-694130	L	3	36206	L	00181	SO	89050623	234321	003500	601	V
KA107	BI 141	23	12.41	0519270	-694130	L	1	15469	L	00185	SO	89050700	002518	002400	801	V
KA107	BI 141	23	12.43	0519270	-694130	L	3	36207	L	00181	SO	89050700	005517	003200	601	V
KA107	BI 141	23	12.42	0519270	-694130	L	1	15470	L	00184	SO	89050701	013514	001200	601	V
KA107	BI 141	23	12.41	0519270	-694130	L	3	36208	L	00185	SO	89050702	020413	003200	601	V
OBLOG	SK-69110	24	11.6	0520568	-693526	L	1	15705	L	258	SO	89061114	144600	000740	402	G C=166,B=32
OBLOG	SK-69110	24	11.6	0520568	-693526	L	3	36450	L	265	SO	89061115	151700	002000	400	G C=150,B=17
OBLOG	SAO -69 111	23	12.0	0521153	-693536	L	3	37204	L	250	SO	89092913	135600	005400		G C=2X,B=2X
OBLOG	SK-69111	23	12.0	0521153	-693536	L	3	37425	L	199	SO	89102203	034400	006000	X02	G C=1.5X,B=38
OBLOG	SK-69111	23	12.0	0521154	-693537	L	1	15706	L	209	SO	89061115	155600	001240	503	G C=202,B=41
OBLOG	SK-69111	23	12.0	0521154	-693537	L	3	36451	L	205	SO	89061116	162700	003900	402	G C=140,B=32

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
OBLOG	SK-69111	23	12.0	0521154	-693537	L	1	16036	L	197	SO	89073116	164400	001300	502 G	C=225,B=35
OBLOG	SK-69111	23	12.0	0521154	-693537	L	3	36773	L	195	SO	89073117	170600	007000	X01 G	C=1.5X,B=25
LBLSS	R94	26	10.7	0521363	-6547	L	1	15946	L	208	FO	89071714	141800	001000	X02 G	C=1.5X,B=36
LBLSS	R94	26	10.7	0521363	-6547	L	3	36690	L	217	FO	89071714	145500	000500	500 G	C=184,B=17
OBLOG	SK-67 81	24	11.6	0521401	-670901	L	3	36423	L	259	SO	89060816	164200	003800	501 G	C=195,B=26
OBLOG	SK-67 81	24	11.6	0521401	-670901	L	1	15680	L	256	SO	89060817	172700	001100	503 G	C=198,B=42
OBLOG	SK-67 84	23	11.9	0522030	-675738	L	3	36422	L	200	SO	89060815	151100	004800	500 G	C=184,B=18
OBLOG	SK-67 84	23	11.9	0522030	-675738	L	1	15679	L	197	SO	89060816	160600	001400	502 G	C=192,B=39
LBLSS	S101/LMC	26	13.3	0522174	-685505	L	1	15943	L	74	SO	89071706	061800	010000	403 G	C=160,B=48
LBLSS	S101/LMC	26	13.3	0522174	-685505	L	3	36687	L	74	SO	89071708	081400	016000	301 G	C=88,B=29
OBLOG	SK-71 23	24	11.6	0523374	-714544	L	1	15744	L	281	SO	89061716	160900	001000	506 G	C=249,B=72
OBLOG	SK-71 23	24	11.6	0523375	-714545	L	1	16026	L	248	SO	89073017	170900	001000	502 G	C=228,B=34
OBLOG	SK-71 23	24	11.6	0523375	-714545	L	3	36766	L	263	FO	89073017	174100	003600	501 G	C=210,B=21
OBLOG	SK-66 79	24	11.5	0523421	-664147	L	1	16020	L	265	SO	89073008	080800	001100	502 G	C=208,B=36
OBLOG	SK-66 79	24	11.5	0523421	-664147	L	3	36760	L	260	SO	89073008	082700	003800	501 G	C=193,B=21
HSLHB	IC 418	70	9.4	0525120	-124415	H	3	37703	L	876	FO	89113010	103400	001700	331 G	E=109,C=52,B=24
NOKWB	N 132D	75		052526	-694041	L	3	36194	L		BO	89050423	233700	091000	349 G	E=222,C=162,B=110
NOKWB	N 132D	75		052526	-694041	L	1	15456	L			89050500	000400	085000	309 G	C=185,B=136
NOKWB	N 132D	75		052526	-694041	L	1	15463	L		BO	89050600	002500	086500	339 G	E=217,C=224,B=147
NOKWB	N 132D	75		052526	-694041	L	3	36200	L			89050606	064400	045500	306 G	C=105,B=72
KE190	SNR N132D	75	00.00	0525263	-694040	E	9	02190	2	00000	BO	89050402	020330	160000	V	
KE190	SNR N132D	75	00.00	0525264	-694040	E	9	02191	2	00000	BO	89050600	003000	016000	V	FOR LWP 15463
SNLWB	N49-SE	75		0525595	-660745	L	3	36706	L		BO	89072004	041600	039000	335 G	E=154,C=105,B=61
SNLWB	N49-SE	75		0525595	-660745	L	1	15966	L		BO	89072004	042100	037000	08 G	B=92
NRKWB	N 49	75		0526004	-660734	L	3	36372	L		BO	89053108	080000	040300	338 G	E=189,C=143,B=100
NRKWB	SKY BKGD	07		0526004	-660734	L	1	15629	L		BO	89053108	080200	036200	00 G	B=13
NRKWB	N 49	75		0526004	-660734	L	1	15636	L		BO	89060107	071100	041800	3X8 G	E=1.5X,C=157,B=100
NRKWB	SKY BKGD	07		0526004	-660734	L	3	36379	L		MO	89060107	071300	038500	306 G	C=98,B=72
LBLSS	S34/LMC	26	11.7	0526534	-673113	L	1	15944	L	263	SO	89071711	111400	001500	X02 G	C=1.5X,B=35
LBLSS	S34/LMC	26	11.7	0526534	-673113	L	3	36688	L	269	SO	89071711	114800	002000	X00 G	C=1.5X,B=17
LBLSS	S34/LMC	26	11.7	0526534	-673113	L	3	36704	L	279	SO	89071908	082200	001200	500 G	C=195,B=19
OBLOG	SK-71 30	24	11.6	0526566	-713606	L	1	15743	L	248	SO	89061714	144800	001200	504 G	C=209,B=53
OBLOG	SK-71 30	24	11.6	0526566	-713605	L	3	36542	L	256	SO	89061715	152200	003400	406 G	C=189,B=76
OBLOG	SK-67116	24	11.3	0527245	-671514	L	1	15709	L	343	SO	89061120	200600	000700	502 G	C=210,B=35
OBLOG	SK-67116	24	11.3	0527245	-671514	L	3	36454	L		SO	89061120	203100	002200	500 G	C=200,B=17
OBLOG	SK-69139	24	11.9	0527424	-690313	L	1	15707	L	218	SO	89061117	172100	001100	403 G	C=190,B=43
OBLOG	SK-69139	24	11.9	0527424	-690313	L	3	36452	L	219	SO	89061117	175100	003400	401 G	C=167,B=22
OBLOG	SK-67122	24	10.9	0528012	-672306	L	1	15692	L	107	FO	89060920	200700	000520	502 G	C=194,B=32
OBLOG	SK-67122	24	10.9	0528012	-672306	L	3	36435	L	105	FO	89060920	203400	001800	400 G	C=164,B=17
OBLOG	SK-68 87	23	11.8	0528080	-685916	L	1	16021	L	207	SO	89073009	091900	001200	502 G	C=203,B=35
OBLOG	SK-68 87	23	11.8	0528080	-685916	L	3	36761	L	215	SO	89073009	095300	003800	501 G	C=200,B=21
OBLOG	SK-69143	24	10.8	0528129	-690418	L	1	15697	L	124	FO	89061020	200100	000620	502 G	C=206,B=32
OBLOG	SK-69143	24	10.8	0528129	-690418	L	3	36441	L	143	FO	89061020	203100	002000	400 G	C=150,B=17
OBLOG	SK-67126	24	11.4	0528277	-674249	L	1	15691	L	284	SO	89060918	185100	000900	502 G	C=205,B=33
OBLOG	SK-67126	24	11.4	0528277	-674249	L	3	36434	L	296	SO	89060919	192600	003100	500 G	C=197,B=17
OBLOG	SK-69149	24	11.8	0528509	-691027	L	1	15695	L	232	SO	89061016	165600	001700	402 G	C=172,B=37
OBLOG	SK-69149	24	11.8	0528509	-691027	L	3	36439	L	235	SO	89061017	172600	007000	400 G	C=150,B=19
OBLOG	SK-66107	24	11.9	0529111	-663743	L	3	36424	L	221	SO	89060818	180900	007100	502 G	C=210,B=35
OBLOG	SK-66107	24	11.9	0529111	-663743	L	1	15681	L	218	SO	89060819	192800	001800	402 G	C=180,B=35
LC118	119 TAU	49	04.50	0529167	+183331	E	9	02252	2	00458	FU	89110411	114200	012000	V	SWP 37519

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
LC118	SKY	99	99.99	0529167	+183331	H	1	16743	L	00000		89110413	134759	015200	004	V
LSLKC	HD 36389	49	4.4	0529168	+183332	L	3	37519	L	458	FU	89110411	115900	088000	347	G E=183,C=145,B=83
OBLOG	SK-67137	24	11.9	0529479	-672259	L	1	15689	L	176	SO	89060915	151500	001900	502	G C=210,B=35
OBLOG	SK-67137	24	11.9	0529479	-672259	L	3	36432	L	179	SO	89060915	154600	007500	500	G C=210,B=18
OBLOG	SK-67138	24	12.1	0529514	-670829	L	1	15690	L	156	SO	89060917	171200	001700	502	G C=214,B=35
OBLOG	SK-67138	24	12.1	0529514	-670829	L	3	36433	L	150	SO	89060917	174300	005800	500	G C=218,B=17
OBLOG	SK-69162	23	11.8	0530151	-690222	L	1	15696	L	197	SO	89061018	185000	000900	502	G C=197,B=35
OBLOG	SK-69162	23	11.8	0530151	-690222	L	3	36440	L	194	SO	89061019	192000	002500	500	G C=195,B=18
OBLOG	SK-69165	23	10.7	0530448	-692147	L	1	15708	L	145	FO	89061118	184700	000500	402	G C=173,B=32
OBLOG	SK-69165	23	10.7	0530448	-692147	L	3	36453	L	146	FO	89061119	191700	001800	400	G C=130,B=17
OBLOG	SK-69165	23	10.7	0530448	-692147	L	1	16025	L	139	FO	89073015	153400	000600	502	G C=205,B=38
OBLOG	SK-69165	23	10.7	0530448	-692147	L	3	36765	L	138	FO	89073016	161100	002900	501	G C=178,B=21
OBLOG	SK-66118	23	11.8	0530538	-665616	L	1	15754	L	240	SO	89061916	160700	000800	503	G C=220,B=49
OBLOG	SK-66118	23	11.8	0530538	-665616	L	3	36555	L	238	SO	89061916	163900	002000	502	G C=191,B=37
LBLSS	S117/LMC	26	10.7	0531126	-693337	L	3	36685	L	182	FO	89071704	040600	001000	300	G C=80,B=18
LBLSS	S117/LMC	26	10.7	0531126	-693337	L	1	15942	L	186	FO	89071704	042600	001000	502	G C=245,B=32
LBLSS	S117/LMC	26	10.7	0531126	-693337	L	3	36686	L	194	FO	89071705	050800	003000	501	G C=185,B=25
OBLOG	SK-69172	24	12.1	0531148	-691347	L	1	15693	L	157	SO	89061013	135000	002000	502	G C=215,B=36
OBLOG	SK-69172	24	12.1	0531148	-691347	L	3	36437	L	155	SO	89061014	142100	007500	500	G C=190,B=17
OBLOG	SK-69177	24	12.1	0532107	-691517	L	1	15703	L	172	SO	89061110	105500	002400	402	G C=185,B=36
OBLOG	SK-69177	24	12.1	0532107	-691517	L	3	36448	L	177	SO	89061111	112400	010000	501	G C=185,B=25
OBLOG	SK-69179	23	11.7	0532239	-692112	L	1	15694	L	231	SO	89061015	154500	001000	502	G C=221,B=32
OBLOG	SK-69179	23	11.7	0532239	-692112	L	3	36438	L	266	SO	89061016	161400	003000	500	G C=190,B=18
LBLSS	S46/LMC	26	12.2	0532286	-670226	L	1	15945	L	173	SO	89071712	123800	001000	402	G C=165,B=32
LBLSS	S46/LMC	26	12.2	0532286	-670226	L	3	36689	L	178	SO	89071713	131100	002000	400	G C=135,B=18
PHCAL	T-FLOOD	98	0.0	0532430	-641538	L	1	15637	S			89060114	145900	000025	?8	G E=10X,B=100
PHCAL	WAVCAL	98	0.0	0532430	-641538	L	1	15637	S			89060115	150100	000001	?8	G E=10X,B=100
PHCAL	T-FLOOD	98	0.0	0532430	-641538	H	1	15638	S			89060115	153200	000025		G
PHCAL	WAVCAL	98	0.0	0532430	-641538	H	1	15638	S			89060115	153400	000016	?9	G E=60X,B=105
PHCAL	NULL	99	0.0	0532430	-641538		2	18313				89060115	155300	000000	300	G C=102,B=19
PHCAL	T-FLOOD	98	0.0	0532430	-641538	L	3	36380	S			89060116	163000	000005	?9	G E=10X,B=101
PHCAL	WAVCAL	98	0.0	0532430	-641538	L	3	36380	S			89060116	163200	000002	?9	G E=10X,B=101
PHCAL	T-FLOOD	98	0.0	0532430	-641538	H	3	36381	S			89060116	165800	000005		G
PHCAL	WAVCAL	98	0.0	0532430	-641538	H	3	36381	S			89060117	170000	000200	?9	G E=60X,B=110
PHCAL	T-FLOOD	98	0.0	0532430	-641538	L	2	18314	S			89060117	172200	000010	?7	G E=10X,B=82
PHCAL	WAVCAL	98	0.0	0532430	-641538	L	2	18314	S			89060117	172300	000001	?7	G E=10X,B=82
PHCAL	T-FLOOD	98	0.0	0532430	-641538	H	2	18315	S			89060117	174700	000010		G
PHCAL	WAVCAL	98	0.0	0532430	-641538	H	2	18315	S			89060117	174900	000022	?9	G E=60X,B=107
PHCAL	TFLOOD	99	0.0	0532430	-641538		3	36382				89060119	192900	000005	09	G B=104
PHCAL	TFLOOD	99	0.0	0532430	-641538		1	15639				89060119	193200	000025	08	G B=99
PHCAL	TFLOOD	99	0.0	0532430	-641538		3	36383				89060120	202200	000005	09	G B=104
HHLFY	HH34N A	69	15.0	0533151	-062452	L	3	37708	L		BO	89113019	195900	036500	306	G C=110,B=72
HHLFY	SKY BKGD	07		0533151	-062452	L	1	16863	L			89113020	204200	003000	02	G B=38
OBLOG	SK-68121	23	12.2	0533177	-685122	L	3	36697	L	165	SO	89071811	115500	005000	501	G C=190,B=24
OBLOG	SK-68121	23	12.2	0533177	-685122	L	1	15952	L	171	SO	89071812	125300	001500	502	G C=195,B=38
OD61Y	HD 245310	26	9.1	0533234	+210921	H	1	16744	L	722	FO	89110503	033100	013000	504	G C=213,B=57
OD61Y	HD 245310	26	9.1	0533234	+210921	L	3	37520	L	722	FO	89110505	054900	000530	500	G C=215,B=18
OBLOG	SK-66143	24	11.8	0533361	-665305	L	1	15752	L	234	SO	89061913	130500	001330	502	G C=205,B=35
OBLOG	SK-66143	24	11.8	0533361	-665305	L	3	36553	L	221	SO	89061913	134500	004700	501	G C=212,B=24
LATOO	V380 ORI	30	11.01	0533595	-064446	L	3	37392	L	00161	FO	89101914	145357	004000	303	V HIGH BACKGROUND

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
LATOO	V380 ORI	30	11.00	0533595	-064446	L	1	16571	L	00163	FO	89101915	155057	001700	607	V HIGH BACKGROUND
OBLCG	SK-66150	23	12.2	0534085	-665507	L	1	15753	L	144	SO	89061914	144800	001100	502	G C=202,B=40
OBLCG	SK-66150	23	12.2	0534085	-665507	L	3	36554	L	143	SO	89061915	151900	003000	502	G C=208,B=34
LATOO	BF ORI	34	10.34	0534472	-063646	L	1	16570	L	00294	FO	89101914	140655	002600	674	V HIGH BACKGROUND
LATOO	BF ORI	34	10.35	0534472	-063646	L	1	16572	L	00291	FO	89101916	165730	000800	346	V PREAD HIGH BACKGROUN
IGLBS	HD 37303	20	6.0	0535006	-055802	H	3	36897	L	10214	FO	89083011	111400	000300	503	G C=205,B=41
IGLBS	HD 37303	20	6.0	0535006	-055802	H	3	36898	L	10173	FO	89083011	114800	000430	X03	G C=1.5X,B=50
IGLBS	HD 37303	20	6.0	0535006	-055802	H	3	36899	L	12350	FO	89083012	122300	000400	X03	G C=1.5X,B=50
IGLBS	HD 37303	20	6.0	0535006	-055802	H	3	36900	L	12350	FO	89083013	130100	000410		G
IGLBS	HD 37303	20	6.0	0535006	-055802	H	1	16242	L	10073	FO	89083013	131400	000200	503	G C=200,B=46
OBLCG	SK-69194	23	11.9	0535027	-694726	L	1	16037	L	181	SO	89073118	183200	000920	502	G C=238,B=35
OBLCG	SK-69197	23	12.1	0535241	-694543	L	1	16022	L	176	SO	89073010	104300	001130	502	G C=210,B=35
OBLCG	SK-69197	23	12.1	0535241	-694543	L	3	36762	L	165	SO	89073011	111800	003200	541	G E=162,C=210,B=23
SULRK	UNKNOWN	65		0535329	-691757	H	3	36669	L	49	SO	89071220	205200	051200	07	G B=88
SULRK	SKY	07		0535329	-691757	L	1	15908	L			89071302	025500	014700	04	G B=52
LELSS	S124/LMC	26	10.7	0535409	-694226	L	1	15968	L	155	FO	89072014	142200	001000	X03	G C=2X,B=46
LELSS	S124/LMC	26	10.7	0535409	-694226	L	3	36708	L	155	FO	89072014	145300	000500	400	G C=150,B=18
LMO11	SK-69203	23	12.74	0535470	-691553	H	1	16101	L	00138	SO	89081117	170403	025600	303	V
SULRK	SN 1987A	56	12.7	0535499	-691758	L	1	15641	L	84	SO	89060214	142300	005000	503	G C=215,B=47
SULRK	SN 1987A	56	12.7	0535499	-691758	L	1	15642	L	76	SO	89060215	154800	006500	X09	G C=2X,B=126
SULRK	SN 1987A	56	12.8	0535499	-691758	L	1	15663	L	88	SO	89060518	180700	010600	X09	G C=2.5X,B=107
SULRK	SN 1987A	56	12.8	0535499	-691758	H	3	36399	L	81	SO	89060520	202700	088000	339	G E=155,C=135,B=110
SULRK	SN 1987A	56	12.8	0535499	-691758	L	3	36539	L	79	SO	89061706	060500	026000	546	G E=211,C=225,B=72
SULRK	SN 1987A	56	12.8	0535499	-691758	L	1	15741	L	78	SO	89061710	103500	005500	504	G C=230,B=58
SULRK	SN 1987A	56	12.8	0535499	-691758	L	1	15771	L	73	SO	89062217	174400	005500	503	G C=222,B=41
SULRK	SN 1987A	56	12.8	0535499	-691758	L	1	15772	L	71	SO	89062219	191600	009500	X03	G C=2X,B=48
SULRK	SN 1987A	56	0.0	0535499	-691758	L	1	15855	L	73	SO	89070516	160200	005500	405	G C=205,B=62
SULRK	SN 1987A	56	0.0	0535499	-691758	L	1	15856	L	68	SO	89070517	173400	007500	X03	G C=1.5X,B=48
SULRK	SN 1987A	07	13.0	0535499	-691758	D	9	02214	2			89071306	060200	002000		G
SULRK	SN 1987A	56	0.0	0535499	-691758	L	9	02215				89071306	064500	002000		G
SULRK	SN 1987A	56	13.0	0535499	-691758	L	3	36676	L	63	SO	89071404	040900	026000	404	G C=182,B=52
SULRK	SN 1987A	56	13.0	0535499	-691758	L	1	15914	L	68	SO	89071408	083700	005500	403	G C=181,B=42
SULRK	SN 1987A	56	13.0	0535499	-691758	L	1	15915	L	65	SO	89071410	100400	004600	403	G C=166,B=42
SULRK	SN 1987A	56	13.2	0535499	-691758	L	1	16013	L	66	SO	89072912	124100	005000	408	G C=208,B=95
SULRK	SN 1987A	56	13.2	0535499	-691758	L	1	16014	L	72	SO	89072914	141200	004000	309	G C=210,B=119
SULRK	SN 1987A	56	13.1	0535499	-691758	L	3	36801	L	62	SO	89080602	021300	026000	443	G E=171,C=176,B=50
SULRK	SN 1987A	56	13.1	0535499	-691758	L	1	16076	L	62	SO	89080606	064100	007000	403	G C=192,B=43
SULRK	SN 1987A	56	13.2	0535499	-691758	L	1	16185	L	63	SO	89082107	074500	015000	X04	G C=2X,B=57
SULRK	SN 1987A	56	13.4	0535499	-691758	L	1	16235	L	62	SO	89082811	115000	008000	504	G C=205,B=51
SULRK	SN 1987A	56	13.1	0535499	-691758	L	1	16236	L	60	SO	89082813	134700	003600	303	G C=121,B=42
SULRK	SN 1987A	56	13.1	0535499	-691758	D	9	02238	2			89082814	143100	002000		G
SULRK	SN 1987A	56	13.1	0535499	-691758	H	3	36891	L	72	SO	89082814	145200	094500	329	G E=132,C=175,B=125
SULRK	SKY BKGD	07		0535499	-691758	L	1	16237	L			89082815	153600	086500	309	G C=180,B=142
SULRK	SN 1987A	56	13.1	0535499	-691758	L	1	16295	L	61	SO	89090711	113400	008000	406	G C=204,B=73
SULRK	SN 1987A	56	13.1	0535499	-691758	L	1	16296	L	60	SO	89090713	132800	008000	403	G C=188,B=46
SULRK	SN 1987A	56	13.2	0535499	-691758	L	3	37088	L	51	SO	89092000	001900	030000	405	G C=198,B=63
SULRK	SN 1987A	56	13.2	0535499	-691758	L	1	16380	L	51	SO	89092005	052700	008500	502	G C=190,B=35
SULRK	SN 1987A	56	13.2	0535499	-691758	L	1	16450	L	53	SO	89092911	115700	010000		G B=3X
SULRK	SN 1987A	56	13.2	0535499	-691758	L	1	16527	L	55	SO	89101009	094600	009500	504	G C=209,B=58
SULRK	SN 1987A	56	13.2	0535499	-691758	L	9	02247				89101011	113700	000000		G

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
SULRK	SN 1987A	56	13.2	0535499	-691758	H	3	37297	L			89101021	215700	041500	339	G E=142,C=175,B=116
SULRK	SKYBKGND	07	13.2	0535499	-691758	L	1	16528	L			89101022	220100	085000	309	G C=180,B=130
SULRK	SN 1987A	56	14	0535499	-691757	L	3	37424	L		BO	89102122	220800	023000	409	G C=240,B=125
SULRK	SKY BKGD	07		0535499	-691757	L	1	16599	L			89102122	223100	018000	09	G B=182
SULRK	SN 1987A	56	14	0535499	-691757	L	1	16600	L		BO	89102202	020900	008000	408	G C=224,B=100
SULRK	SN 1987A	56	14	0535499	-691758	L	1	16751	L	48	SO	89110604	041300	011000	503	G C=235,B=50
SULRK	SN 1987A	56	14.2	0535499	-691758	L	3	37574	L		BO	89111220	201500	030000	554	G E=224,C=236,B=56
SULRK	SN 1987A	56	15.0	0535499	-691758	L	1	16841	L		BO	89112608	082400	010000	503	G C=248,B=45
SNKRK	SN 1987A	56	12.6	053550	-691758	L	1	15453	L	114	SO	89050419	191900	002000	X09	G C=1.5X,B=176
SNKRK	SN 1987A	56	12.6	053550	-691758	L	1	15454	L	110	SO	89050420	202100	002000	409	G C=211,B=102
SNKRK	SN 1987A	56	12.6	053550	-691758	L	1	15455	L	101	SO	89050421	212100	007500	X03	G C=2X,B=50
SNKRK	SN 1987A	56	12.8	053550	-691758	L	1	15530	L	93	SO	89051708	081200	004500	502	G C=217,B=38
SNKRK	SN 1987A	56	12.8	053550	-691758	L	3	36279	L	95	SO	89051709	090600	026000	554	G E=212,C=205,B=53
SNKRK	SN 1987A	56	12.8	053550	-691758	L	1	15531	L	96	SO	89051713	133200	007800	X03	G C=1.5X,B=42
SNKRK	SN 1987A	56		053550	-691758	L	1	15592	L	92	SO	89052420	202200	010000	X04	G C=2X,B=52
SNKRK	SN 1987A	07		053550	-691758	L	3	36336	L		BO	89052422	221800	079500	308	G C=140,B=99
SULRK	SN1987A	56		0535500	-691758	H	3	36670	L	64	SO	89071307	075300	020000		G
KE179	SN 1987A	56	13.11	0535501	-691758	L	1	15512	L	00099	SO	89051402	020519	005000	502	V
SNKRK	SN 1987A	56	12.7	0535501	-691758	L	3	36337	L	86	SO	89052512	120800	016000	433	G E=144,C=150,B=45
KE179	SN 1987A	56	13.17	0535501	-691758	L	3	36258	L	00094	SO	89051403	030519	022200	501	V
LE041	SN1987A	56	13.45	0535501	-691758	L	1	15796	L	00073	SO	89062622	222538	006000	601	V
LE041	SN1987A	56	13.41	0535501	-691758	L	3	36578	L	00076	SO	89062623	233541	031000		V
LE041	SN1987A	56	13.90	0535501	-691758	E	9	02213	2	00049	SO	89071220	200000	004000		V FOR SWP 36669
LE041	SN1987A	56	13.50	0535501	-691758	L	1	16148	L	00070	SO	89081716	163525	012000	707	V B/O
LE041	SN1987A	56	13.56	0535501	-691758	L	3	36865	L	00066	SO	89081718	184509	017000	401	V B/O
LE041	SN1987A	56	13.54	0535501	-691758	L	1	16313	L	00068	SO	89090916	163329	009000	601	V B/O
LE041	SN1987A	56	13.65	0535501	-691758	L	1	16466	L	00061	SO	89100214	144600	009000	562	V
LE041	SN1987A	56	13.65	0535501	-691758	L	3	37236	L	00061	SO	89100216	162415	026300	501	V PREAD
LE041	SN1987A	56	15.00	0535501	-691758	L	1	16752	L	00000	BO	89110612	121432	009000	404	V
LE041	SN1987A	56	14.00	0535502	-691759	L	3	36722	L	00000	BO	89072219	195053	020000	441	V
LE041	SN1987A	56	13.50	0535502	-691759	L	1	15981	L	00070	SO	89072223	232027	020700	773	V
LE041	SN1987A	56	13.62	0535502	-691759	L	3	36968	L	00063	SO	89090918	180954	027000	501	V B/O
LE041	SN 1987A	56	13.40	0535502	-691759	L	1	16372	L	00000	BO	89091715	155724	007000	401	V 62 CTS/SO AT -5,-203
LE041	SN 1987A	56	13.40	0535502	-691759	L	3	37062	L	00000	BO	89091717	171939	023000	401	V
LE041	SN1987A	56	13.00	0535502	-691759	E	9	02248	2	00000	BO	89101012	125743	004000		V
LE041	SN1987A	56	15.00	0535502	-691759	L	3	37526	L	00000	BO	89110613	135551	025500	443	V
LE041	SN 1987A	56	15.00	0535502	-691759	L	1	16855	L	00000	BO	89112812	120306	010000	402	V PNT AT R.P. = 52 CTS
LE041	SN1987A	56	15.00	0535502	-691759	L	3	37694	L	00000	BO	89112813	135230	029500	401	V
SNKRK	SN 1987A	07	0.0	0535538	-691724	L	1	15593	L			89052422	224900	076300	309	G C=180,B=130
OBLOG	SK-69206	23	12.8	0535566	-690851	L	1	15751	L	85	SO	89061909	094100	003600	502	G C=202,B=38
OBLOG	SK-69206	23	12.8	0535566	-690851	L	3	36552	L	83	SO	89061910	102400	014800		G E=3X
CVLSS	NOVLMC88	55	16	053601	-702315	L	3	36218	L	12	SO	89050723	234400	086500	339	G E=147,C=166,B=125
OBLOG	SK-66166	23	11.7	0536015	-661528	L	1	16023	L	266	SO	89073012	123200	000900	503	G C=210,B=42
OBLOG	SK-66166	23	11.7	0536015	-661528	L	3	36763	L	277	SO	89073013	130700	002700	502	G C=215,B=35
LI049	N LMC88#1	55	99.99	0536019	-702315	E	9	02192	2	00000		89050723	232000	004000		V
OBLOG	SK-67220	23	11.8	0536033	-672919	L	1	15755	L	227	SO	89061917	172900	001000	503	G C=227,B=46
OBLOG	SK-67220	23	11.8	0536033	-672919	L	3	36556	L	225	SO	89061918	180300	002900	501	G C=189,B=22
LMO11	SK -69 211	25	10.89	0536278	-692556	H	1	16226	L	00180	FO	89082715	155130	034000	403	V
LELSS	S127/LMC	26	10.9	0536475	-692438	L	1	15959	L	128	FO	89071909	093400	000600	502	G C=212,B=34
LELSS	S127/LMC	26	10.9	0536475	-692438	L	3	36705	L	123	FO	89071910	101500	001000	300	G C=110,B=18

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
LM011	R 128	20	10.99	0537113	-693136	H	3	36926	L	00164	FO	89090116	164749	036000	402	V XSPREP
OBLCG	SK-69230	24	12.1	0537479	-692734	L	1	15757	L	181	SO	89061920	202500	002500	402	G C=142,B=38
OBLCG	SK-69236	23	12.4	0538118	-692546	L	1	15756	L	133	SO	89061918	184800	001800	502	G C=218,B=38
OBLCG	SK-69236	23	12.4	0538118	-692546	L	3	36557	L	125	SO	89061919	192000	005800	501	G C=190,B=24
OBLCG	SK-69271	23	12.0	0541455	-693643	L	3	36698	L	184	SO	89071813	134100	005300	501	G C=204,B=29
OBLCG	SK-69271	23	12.0	0541456	-693643	L	1	15953	L	196	SO	89071814	144200	001600	503	G C=208,B=43
OBLCG	SK-69 28	23	11.4	0543143	-693406	L	1	16027	L	288	SO	89073018	183900	000620	502	G C=220,B=34
LM136	HD 39060	31	3.9	0546058	-510501	H	3	37699	L	566	FU	89112912	123300	060000	?09	G C=41X,B=104
LM136	HD 39060	31	3.9	0546058	-510501	H	1	16860	L	601	FU	89112919	191000	000400	502	G C=236,B=40
LM136	HD 39060	31	3.9	0546058	-510501	H	1	16861	L	585	FU	89112921	212300	000400	502	G C=246,B=40
LM136	HD 39060	31	3.9	0546058	-510501	H	3	37700	L	561	FU	89113001	015800	001000	502	G C=192,B=34
LM136	HD 39060	31	3.9	0546058	-510501	H	1	16862	L	574	FU	89113002	021200	000400	503	G C=243,B=41
LM136	HD39060	31	04.28	0546059	-510502	H	3	37698	L	00563	FU	89112911	114640	001000	500	V
EGLAC	HD 39060	33	3.9	0546059	-510459	H	1	16612	L	619	FU	89102305	050500	000500	X09	G C=2X,B=128
LM136	HD39060	31	04.27	0546059	-510502	E	9	02266	2	00566	FU	89112911	113000	016000		V FES FOR SWP37699
OX65K	HD 39060	33	3.9	0546059	-510459	H	1	16613	L	609	FU	89102308	080700	000300	409	G C=230,B=110
LM136	HD39060	31	04.28	0546059	-510502	H	1	16857	L	00562	FU	89112912	120310	000400	501	V
LM136	HD39060	31	04.26	0546059	-510502	H	1	16858	L	00571	FU	89112914	143833	000400	601	V
LM136	HD39060	31	04.27	0546059	-510502	H	1	16859	L	00565	FU	89112916	165438	000400	601	V FES FOR SWP37699
CSLTA	HD 39587	44	4.6	0551251	+201606	L	3	37542	L	337	FU	89111003	030600	007500	X30	G E=91,C=5X,B=18
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16272	L	10532	FU	89090307	073800	000245	352	G E=210,C=62,B=32
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	36931	L	10140	FU	89090307	074900	005000	3X1	G E=4X,C=119,B=30
LSLAD	HD 39801	49	0.5	0552280	+072358	L	1	16273	L	10173	FU	89090308	082200	000005	342	G E=153,C=64,B=34
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16274	L	10027	FU	89090309	090700	007500	X?5	G E=18X,C=4X,B=62
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	36932	L	9936	FU	89090310	102700	001230	341	G E=138,C=50,B=25
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16362	L	10171	FU	89091507	075200	004000	X?4	G E=18X,C=4X,B=57
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37031	L	10724	FU	89091508	084000	001230	304	G C=139,B=58
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37032	L	10065	FU	89091509	094300	005000	3X1	G E=4X,C=122,B=24
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16363	L	10373	FU	89091510	103800	000245	352	G E=197,C=76,B=34
LSLAD	HD 39801	49	0.5	0552280	+072358	L	1	16382	L	10371	FU	89092011	115200	000007	352	G E=206,C=70,B=35
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37092	L	10308	FU	89092012	120100	001230	340	G E=136,C=50,B=19
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16383	L	10286	FU	89092012	123900	000245	351	G E=198,C=70,B=30
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37093	L	10411	FU	89092013	131400	004500	4X1	G E=4X,C=140,B=24
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16384	L	10147	FU	89092014	140500	000255	351	G E=200,C=70,B=30
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37276	L	10007	FU	89100805	052800	001230	340	G E=145,C=50,B=18
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16502	L	10597	FU	89100805	055200	006500	5?3	G E=18X,C=205,B=47
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37277	L			89100807	070300	005000		G
LSLAD	HD 39801	49	0.5	0552280	+072358	L	1	16503	L			89100807	075800	000005		G
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16504	L			89100808	083300	000245		G
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16614	L	10180	FU	89102309	092700	000200	34	G E=150,B=60
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37439	L	10239	FU	89102309	093400	000500	32	G E=101,B=35
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37440	L	10143	FU	89102310	103600	000500	31	G E=80,B=25
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16615	L	10200	FU	89102310	104600	000200	33	G E=141,B=48
LSLAD	HD 39801	49	0.5	0552280	+072358	L	1	16616	L	10182	FU	89102311	112100	000005	352	G E=224,C=72,B=38
LSLAD	HD 39801	49	0.5	0552280	+072358	L	1	16616	S	10159	FU	89102311	112900	000030	332	G E=137,C=62,B=38
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37441	L	10106	FU	89102312	120500	003000	3X5	G E=4X,C=160,B=62
LSLAD	HD 39801	49	0.5	0552280	+072358	H	3	37487	L	10196	FU	89103001	013600	020000	353	G E=209,C=100,B=50
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37517	L	9759	FU	89110403	034400	002000	4X0	G E=4X,C=120,B=20
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16738	L	9650	FU	89110404	041100	000245	342	G E=169,C=65,B=33
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16739	L	9752	FU	89110405	050000	005000	4?3	G E=12X,C=198,B=48

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37518	L	9728	FU	89110405	055700	001230	340	G E=143,C=45,B=20
LSLAD	HD 39801	49	0.5	0552280	+072358	L	1	16740	L	10088	FU	89110406	064500	000005	342	G E=134,C=60,B=32
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16781	L	9792	FU	89111403	034200	006500	X?3	G E=15X,C=5X,B=50
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37586	L	9811	FU	89111404	042000	001230	341	G E=143,C=63,B=25
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37587	L	9757	FU	89111405	052200	005000	4X1	G E=4X,C=131,B=22
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16782	L	9675	FU	89111406	061600	000300	352	G E=197,C=80,B=35
LSLAD	HD 39801	49	0.5	0552280	+072358	L	1	16783	L	10185	FU	89111406	065100	000005	332	G E=127,C=57,B=32
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16808	L	10004	FU	89112203	034800	000300	42	G E=183,B=36
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37653	L	10083	FU	89112204	040300	002500	3X2	G E=3X,C=130,B=37
LSLAD	HD 39801	49	0.5	0552280	+072358	L	1	16809	L	10306	FU	89112204	043800	000005	341	G E=178,C=61,B=30
LSLAD	HD 39801	49	0.5	0552280	+072358	H	1	16810	L	9679	FU	89112205	052100	003000	?9	G E=18X,B=109
LSLAD	HD 39801	49	0.5	0552280	+072358	L	3	37654	L	10079	FU	89112205	055700	001230	342	G E=156,C=60,B=32
HCLSP	HD 40369	39	5.7	0556043	+124819	L	1	16702	L	11459	FO	89103108	084700	000130	502	G C=222,B=36
HCLSP	HD 40369	39	5.7	0556043	+124819	L	3	37490	L	11361	FO	89103108	085300	000500	400	G C=140,B=18
LSLKC	HD 40239	49	4.3	0556134	+455604	L	3	37605	L	494	FU	89111603	034400	012000	31	G E=88,B=30
SCLCW	HD 40239	49	4.3	0556134	+455604	L	1	16831	L	485	FU	89112503	033600	001500	503	G C=205,B=41
SCLCW	HD 40239	49	4.3	0556134	+455604	L	1	16831	S	476	FU	89112503	033600	001500	352	G E=211,C=61,B=39
SCLCW	HD 40239	49	4.3	0556134	+455604	L	1	16831	L			89112503	033600	001500		G
SCLCW	HD 40239	49	4.3	0556134	+455604	L	1	16831	S	476	FU	89112503	033600	001500	352	G E=211,C=61,B=39
QSLRR	X 0558-504	85	15.0	0558344	-502654	L	1	16793	L		BO	89111520	200500	012500	444	G E=191,C=158,B=56
QSLRR	X 0558-504	85	15.0	0558344	-502654	L	3	37604	L		BO	89111522	221300	027000	453	G E=207,C=145,B=43
OD61Y	HD 40957	30	7.2	0600516	+453524	L	1	16747	L	3398	FO	89110508	083100	000130	02	G B=38
CBLGP	HD 41335	26	5.2	0601475	-064218	H	3	37091	L	17238	FO	89092010	103700	000330	502	G C=205,B=39
BNLWF	LKHA 208	73	13	0604531	+183954	L	3	37537	L	190	FU	89110720	200100	040500	304	G C=140,B=54
BNLWF	LKHA 208	73	13.0	0605010	+184150	L	1	16697	L	200	SO	89103009	091300	021500	X07	G C=1.5X,B=89
NPKHB	ABELL 14	70	15.2	0608209	+114725	L	3	37028	L		BO	89091500	001300	009000	00	G B=20
IGLBS	HD 44506	23	5.5	0618475	-340713	H	3	36893	L	14815	FO	89083007	075800	000240	402	G C=183,B=37
IGLBS	HD 44506	23	5.5	0618475	-340713	H	3	36894	L	15070	FO	89083008	083100	000400	X03	G C=1.5X,B=43
IGLBS	HD 44506	23	5.5	0618475	-340713	H	3	36895	L	18083	FO	89083009	090700	000500	X03	G C=2X,B=50
IGLBS	HD 44506	23	5.5	0618476	-340714	H	3	36896	L	18101	FO	89083009	094400	000530	X04	G C=2X,B=51
IGLBS	HD 44506	23	5.5	0618476	-340714	H	1	16241	L	14936	FO	89083009	095700	000230	503	G C=243,B=45
LC118	HD44537	49	05.32	0621028	+491856	E	9	02253	2	23105	FO	89110511	111500	016000		V
PHCAL	SKY	99	99.99	0621028	+491856	L	2	18345	L	00000		89110512	121552	018000	002	V 4.5KV
PHCAL	SKY	99	99.99	0621028	+491856	L	2	18346	L	00000		89110516	161737	006000	002	V LWR:5.0KV
LSLKC	HD 44537	49	4.9	0621029	+491857	L	3	37521	L	23105	FO	89110512	121400	086500	339	G E=193,C=144,B=102
LS096	JUPITER	03	-02.20	0631410	+225656	L	3	37027	L	00000	BO	89091421	214544	002000	600	V SATURATED LONG WLTH
SSLDS	JUPITER	03	-2.3	0632351	+225623	L	3	37040	L	28673	FU	89091608	082300	001000	X41	G E=156,C=2X,B=25
SSLDS	JUPITER	03	-2.3	0632351	+225623	L	3	37041	L	28673	FU	89091609	091500	007500	?X2	G E=5X,C=15X,B=34
SSLDS	JUPITER	03	-2.3	0632351	+225623	L	3	37041	L	28673	FU	89091609	091600	007500	?X2	G E=5X,C=15X,B=34
SSLDS	JUPITER	03	-2.3	0632351	+225623	L	3	37040	L	28673	FU	89091609	092400	001000	X41	G E=156,C=2X,B=25
SSLDS	SKY BKGD	07	-2.3	0632351	+225623	L	3	37042	L	28673	FU	89091611	110400	003000	?X2	G E=5X,C=15X,B=34
SSLDS	JUPITER	03	-2.3	0632351	+225623	L	3	37043	L	28673	FU	89091612	121500	001200	X51	G E=206,C=2X,B=21
SSLDS	JUPITER	03	-2.3	0632351	+225623	L	3	37043	L	28673	FU	89091612	121600	001200	X51	G E=206,C=2X,B=21
SSLDS	JUPITER	03	-2.3	0632351	+225623	L	3	37044	L	28673	FU	89091613	130500	008000	?X2	G E=5X,C=16X,B=37
SSLDS	JUPITER	03	-2.3	0632351	+225623	L	3	37044	L	28673	FU	89091613	130600	008000	?X2	G E=5X,C=16X,B=37
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37048	L			89091623	235500	003000	XX0	G E=1.5X,C=4X,B=20
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37049	L			89091701	010100	003000	XX0	G E=1.5X,C=4X,B=18
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37050	L			89091702	020500	003000	XX0	G E=1.5X,C=4X,B=20
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37051	L			89091703	030700	003000	XX0	G E=1.5X,C=4X,B=18
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37052	L			89091704	040700	003000	XX1	G E=1.5X,C=4X,B=22

PRO	Object	CL	MAG	R.A.	DEC	D C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37053	L			89091705	050900	003000	XX0 G	E=1.5X,C=4X,B=19
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37054	L			89091706	061100	003000	XX0 G	E=1.5X,C=4X,B=18
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37055	L			89091707	071700	003000	XX0 G	E=1.5X,C=4X,B=18
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37056	L			89091708	082400	003000	XX0 G	E=1.5X,C=5X,B=18
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37057	L			89091709	092900	003000	XX0 G	E=1.5X,C=5XB=20
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37058	L			89091710	105000	003000	XX1 G	E=1.5X,C=5X,B=25
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37059	L			89091711	113500	003000	XX1 G	E=1.5X,C=5X,B=23
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37060	L			89091713	130100	003000	XX0 G	E=1.5X,C=5X,B=19
SJLWM	JUPITER	03	-2.2	0632527	+225604	L	3	37061	L			89091714	140200	001500	X50 G	E=184,C=4X,B=18
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37071			FU	89091900	003300	001500	XX0 G	E=2X,C=5X,B=18
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37072	L		FU	89091901	013500	001500	XX0 G	E=2X,C=5X,B=18
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37073	L		FU	89091902	023500	001500	XX0 G	E=2X,C=4X,B=20
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37074	L		FU	89091903	033900	001500	XX0 G	E=2X,C=4X,B=18
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37075	L		FU	89091904	044100	001500	XX0 G	E=2X,C=4X,B=18
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37076	L		FU	89091905	054400	001500	XX0 G	E=2X,C=4X,B=19
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37077	L		FU	89091906	064700	001500	XX0 G	E=1.5X,C=4X,B=20
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37078	L		FU	89091907	075200	003000	X01 G	E1.5X,C=4X,B=21
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37079	L			89091908	085500	001500	XX1 G	E=1.5X,C=4X,B=21
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37080	L		FU	89091909	095800	001500	XX1 G	E=1.5X,C=4X,B=22
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37082	L		FU	89091912	120200	001500	XX1 G	E=1.5X,C=4X,B=23
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37083	L			89091913	130500	001500	XX1 G	E=1.5X,C=4X,B=22
SJLWM	JUPITER	03	-2.2	0633558	+225520	L	3	37084	L		FU	89091914	140800	001500	X50 G	E=180,C=4X,B=20
LM111	RR PIC NEB	55	18.00	0635082	-623556	L	3	37070	L	00000	BO	89091816	162824	036224	133 V	
LM111	RR PIC NEB	55	18.00	0635082	-623556	L	3	37086	L	00000	BO	89091916	162630	033400	322 V	PREAD
LM111	RR PIC	55	12.74	0635098	-623549	L	1	15758	L	00138	SO	89061922	221102	001500	502 V	
LM111	RR PIC	55	12.71	0635098	-623549	L	3	36558	L	00142	SO	89061922	224113	002000	500 V	
LM111	RR PIC	55	12.67	0635099	-623550	L	3	37087	L	00146	SO	89091922	223023	001700	450 V	PREAD
LM111	RR PIC S R	76	99.99	0635105	-623557	L	3	36550	L	00000		89061822	223459	037200	332 V	S-E RING OF RR PIC
LM111	RR PIC RIN	76	17.00	0635106	-623558	L	1	15759	L	00000	BO	89061923	233059	031700	204 V	
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37158				89092323	233900	007000	X02 G	C=9X,B=31
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37159	L			89092401	012300	001500	X00 G	C=2X,B=20
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37160	L			89092402	020500	001500	X01 G	C=2X,B=21
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37161	L			89092402	024800	001500	X01 G	C=2X,B=21
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37162	L			89092403	033100	001500	X00 G	C=2X,B=19
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37163	L			89092404	041400	001500	X01 G	C=2X,B=21
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37164	L			89092405	050100	001500	X01 G	C=2X,B=21
SJLWM	JUPITER	03	-2.2	0636226	+225335	L	3	37165	L			89092406	061200	001500	X01 G	C=2X,B=21
SJLWM	JUPITER	03	-2.2	0636226	+225335	L	3	37166	L			89092406	065900	001500	X01 G	C=2X,B=21
SJLWM	SKYBKGND	03		0636226	+225335	L	3	37167	L			89092407	075100	003000	30 G	E=44,B=18
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37168	L			89092409	090100	001500	X01 G	C=2X,B=21
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37169	L			89092409	095800	001500	X51 G	E=197,C=2X,B=22
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37170	L			89092410	104300	001500	X51 G	E=191,C=2X,B=23
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37171	L			89092411	112600	001500	X51 G	E=186,C=2X,B=22
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37172	L			89092412	120900	001500	X40 G	E=162,C=2X,B=20
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37173	L			89092412	125300	001500	X51 G	E=173,C=2X,B=21
SJLWM	JUPITER	03	-2.5	0636226	+225335	L	3	37174	L			89092413	133600	001500	X41 G	E=170,C=2X,B=21
SNLRW	GANYMEDE	04	5.3	0637231	+225255	L	1	16421	L	17419	FO	89092511	113800	000116	X02 G	C=1.5X,B=32
SNLRW	GANYMEDE	04	5.3	0637231	+225255	H	1	16422	L	17684	FO	89092512	122100	013000	X44 G	E=162,C=2X,B=60
SILWM	TORUS	07	0.0	0641250	+225326	L	3	37628	L			89111919	194700	058500	35 G	E=94,B=70
SJLWM	JUPITER	03	-2.5	0641250	+225326	L	3	37629	L			89112007	072400	003000	X01 G	C=2X,B=30

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
SJLWM	JUPITER	03	-2.5	0641250	+225326	L	3	37630	L			89112007	072400	001500		G
SJLWM	JUPITER	03	-2.5	0641250	+225326	L	3	37631	L			89112008	082700	003000	X01	G C=2X,B=25
SJLWM	JUPITER	03	-2.5	0641250	+225326	L	3	37631	L			89112008	084500	001500		G
SJLWM	JUPITER	03	-2.5	0641250	+225326	L	3	37632	L			89112009	093100	003000	X01	G C=2X,B=24
LS077	JUPITER	03	99.99	0641311	+225318	E	9	02259	2	00000		89111812	122700	016000		V IO IN SWLA
SILWM	TORUS	07	0.0	0641311	+225317		3	37627	L			89111910	103000	050800	335	G E=108,C=90,B=65
LS077	JUPITER	03	-02.00	0641311	+225318	E	9	02260	2	00000		89111812	122700	016000		V IO IN SWLA
LS077	JUPITER	03	-02.00	0641311	+225318	E	9	02262	2	00000		89111911	111500	016000		V IO TORUS IN SWLA
SJLWM	JUPITER	03	-2.5	0641371	+225309	L	3	37620	L			89111901	015000	003000	X00	G C=2X,B=20
SJLWM	JUPITER	03	-2.5	0641371	+225309	L	3	37621	L			89111903	032500	003000	X01	G C=2X,B=22
SJLWM	JUPITER	03	-2.5	0641371	+225309	L	3	37622	L			89111904	043000	001500	X01	G C=2X,B=22
SJLWM	JUPITER	03	-2.5	0641371	+225309	L	3	37623	L			89111905	053600	001500	X01	G C=2X,B=25
SJLWM	JUPITER	03	-2.5	0641371	+225309	L	3	37624	L			89111906	064100	003000	X01	G C=2X,B=29
SJLWM	JUPITER	03	-2.5	0641371	+225309	L	3	37625	L			89111907	074900	003000	X01	G C=2X,B=25
SJLWM	JUPITER	03	-2.5	0641371	+225309	L	3	37626	L			89111908	085300	003000	X01	G C=2X,B=22
SILWM	IO	04	5.0	0641489	+225254	L	3	37619				89111820	205300	025000	339	G E=198,C=151,B=114
SJLWM	JUPITER	03	-2.5	0641568	+225243	L	3	37614	L			89111805	050900	003000	X00	G C=4X,B=20
SJLWM	JUPITER	03	-2.5	0641568	+225243	L	3	37615	L			89111806	061500	000000	X01	G C=4X,B=24
SJLWM	JUPITER	03	-2.5	0641568	+225243	L	3	37616	L			89111807	071900	001000	X01	G C=2.5X,B=22
SJLWM	JUPITER	03	-2.5	0641568	+225243	L	3	37617	L			89111808	081000	001500	X01	G C=4X,B=22
SJLWM	JUPITER	03	-2.5	0641568	+225243	L	3	37618	L			89111809	091500	003000	X01	G C=4X,B=22
SILWM	JUPITER	03	-2.5	0641568	+225243	L	9	02259				89111810	102600	000000		G
SILWM	TORUS	07	0.0	0641568	+225243	L	9	02261				89111910	100400	000000		G
SILWM	IO	04	5.02	0642002	+225238	L	3	37613	L			89111714	142100	082900	336	G E=102,C=125,B=79
LS077	JUPITER	03	-02.00	0642059	+225231	E	9	02258	2	00000		89111712	121400	016000		V CENTERED ON EUROPA
LS077	JUPITER	03	-02.00	0642059	+225231	L	3	37612		00000	BO	89111712	123858	001500	110	V CENTERED ON EUROPA
LA099	HD48807	25	07.53	0642376	+000036	H	1	16707	L	03584	FO	89103114	145647	007000	703	V
JULJC	JUPITER	03	-2.6	0643011	+225104	L	3	37583	L			89111319	195100	002000	X51	G E=217,C=3X,B=30
JULJC	JUPITER	03	-2.6	0643011	+225104	H	3	37584	S			89111320	204500	020000	X48	G E=6X,C=6X,B=91
JULJC	JUPITER	03	-2.6	0643011	+225104	H	3	37585	L			89111401	015000	006000	X33	G E=122,C=1.5X,B=45
SULRK	SN 1987A	56	14.2	0643098	+225059	L	1	16780	L		BO	89111301	011800	009500	503	G C=220,B=42
SJLWM	JUPITER	03	-2.5	0643098	+225059	L	3	37575	L			89111304	040200	001500	X40	G E=1.5X,C=2X,B=18
SJLWM	JUPITER	03	-2.5	0643098	+225059	L	3	37576	L			89111305	050800	001500	X40	G E=1.5X,C=2X,B=18
SJLWM	JUPITER	03	-2.5	0643098	+225059	L	3	37577	L			89111306	061400	001500	X40	G E=1.5X,C=2X,B=20
SJLWM	JUPITER	03	-2.5	0643098	+225059	L	3	37578	L			89111307	071900	001500	X41	G E=1.5X,C=2X,B=24
SJLWM	JUPITER	03	-2.5	0643098	+225059	L	3	37579				89111308	082400	001500		G
SJLWM	JUPITER	03	-2.5	0643098	+225059	L	3	37579	L			89111308	084200	001500	X40	G E=1.5X,C=2X,B=18
SJLWM	JUPITER	03	-2.5	0643098	+225059	L	3	37580	L			89111309	093300	001500	X50	G E=206,C=2X,B=18
SJLWM	SKY BKGD	07	-2.5	0643098	+225059	L	3	37581	L			89111310	101800	001500	20	G E=33,B=18
JULJC	JUPITER	03	-2.6	0643359	+225023	L	3	37560	L			89111119	195200	010000	X53	G E=201,C=2X,B=50
JULJC	JUPITER	03	-2.6	0643359	+225023	H	3	37561	L			89111122	223600	010000	X47	G E=1.5X,C=2X,B=84
JULJC	JUPITER	03	-2.6	0643359	+225023	L	3	37562	L			89111201	011700	009500	X41	G E=2X,C=5X,B=25
SJLWM	JUPITER	03	-2.5	0643359	+225023	L	3	37563	L			89111203	033300	001500	X50	G E=214,C=2X,B=18
SJLWM	JUPITER	03	-2.5	0643359	+225023	L	3	37564	L			89111204	042000	001500	X50	G E=218,C=2X,B=18
SJLWM	JUPITER	03	-2.5	0643359	+225023	L	3	37565	L			89111205	050600	001500	X50	G E=225,C=2X,B=18
SJLWM	JUPITER	03	-2.5	0643359	+225023	L	3	37566	L			89111205	055200	001500	X50	G E=203,C=2X,B=18
SJLWM	JUPITER	03	-2.5	0643359	+225023	L	3	37567	L			89111206	063700	001500	X50	G E=196,C=2X,B=18
SJLWM	JUPITER	03	-2.5	0643359	+225023	L	3	37568	L			89111207	072400	001500	X50	G E=211,C=2X,B=18
SJLWM	JUPITER	03	-2.5	0643359	+225023	L	3	37569	L			89111208	081000	001500	X50	G E=200,C=2X,B=18
SJLWM	JUPITER	03	-2.5	0643359	+225023	L	3	37570	L			89111208	085500	001500	X50	G E=193,C=2X,B=18

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
SJLWM	SKY BKGD	07	-2.5	0643359	+225023	L	3	37571	L			89111209	094800	003000	30	G E=51,B=18
JULJC	JUPITER	03	-2.5	0643379	+225007	H	3	37549	L			89111020	201300	013000	XX7	G E=1.5X,C=2X,B=81
JULJC	JUPITER	03	-2.5	0643379	+225007	H	3	37550	L			89111023	230900	011000	XX6	G E=1.5X,C=2X,B=78
HCLSP	HD 49126	39	7.3	0643582	-204200	L	1	16377	L	2703	FO	89091810	105100	000110	502	G C=242,B=37
HCLSP	HD 49126	39	7.3	0643582	-204200	L	3	37067	L	2714	FO	89091810	105600	002003	500	G C=183,B=18
SJKJW	JUPITER	03	-2.5	0644029	+224929	L	3	37538	L			89110807	073100	003000	X32	G E=107,C=6X,B=34
SJKJW	JUPITER	03	-2.5	0644029	+224929	L	3	37539	L			89110808	082900	004000	X31	G E=114,C=6X,B=22
SJKJW	JUPITER	03	-2.5	0644029	+224929	L	3	37540	L			89110809	093800	004000	X40	G E=119,C=6X,B=18
SJKJW	JUPITER	03	-2.5	0644111	+224928	L	3	37533	L			89110707	073800	002000	X31	G E=86,C=4X,B=28
SJKJW	JUPITER	03	-2.5	0644111	+224928	L	3	37534	L			89110708	082900	003000	X31	G E=111,C=6X,B=24
SJKJW	JUPITER	03	-2.5	0644111	+224928	L	3	37535	L			89110709	093000	004000	X30	G E=103,C=8X,B=18
SJLJC	JUPITER	03	-2.0	0644149	+224909	L	3	37527	L			89110619	195800	002000	50	G E=225,B=18
SJLJC	JUPITER	03	-2.0	0644149	+224909	H	3	37528	S			89110621	212700	005300	321	G E=38,C=90,B=29
SJLJC	JUPITER	03	-2.0	0644149	+224909	H	3	37529	S			89110623	230900	006000	422	G E=41,C=150,B=32
SJLJC	JUPITER	03	-2.0	0644149	+224909	H	3	37530	S			89110700	004100	013000	33	G E=74,B=41
SJKRW	JUPITER	03	-2.5	0644190	+224900	L	3	37522	L			89110607	070100	001500	X01	G C=3X,B=25
SJKRW	JUPITER	03	-2.5	0644190	+224900	L	3	37523	L			89110607	075000	002000	X01	G C=4X,B=28
SJKRW	JUPITER	03	-2.5	0644190	+224900	L	3	37524	L			89110608	083900	002500	X31	G E=108,C=5X,B=23
SJKRW	JUPITER	03	-2.5	0644190	+224900	L	3	37525				89110609	093500	003000	X30	G E=99,C=6X,B=18
BEKTS	HD 50123	26	5.7	0648299	-313848	H	1	15468	L	11959	FO	89050621	215600	000700	533	G E=91,C=244,B=46
BEKTS	HD 50123	26	5.7	0648299	-313848	H	3	36205	L	12219	FO	89050622	221100	001030	502	G C=194,B=37
BEKTS	HD 50123	26	5.7	0648299	-313848	H	3	36217	L	12184	FO	89050721	213600	001030	502	G C=195,B=31
BEKTS	HD 50123	26	5.7	0648299	-313848	H	1	15479	L	12722	FO	89050722	222100	000630	503	G C=238,B=42
SALCW	HD 50707	23	4.8	0651231	-200940	L	3	37270	L			89100712	124300	000003		G
SALCW	HD 50707	23	4.8	0651231	-200940	L	3	37270	L			89100712	124300	000003		G
SALCW	HD 50707	23	4.8	0651231	-200940	L	3	37270	L	297	FU	89100712	124400	000003	X00	G C=1.5X,B=18
SALCW	HD 50707	23	4.8	0651231	-200940	L	1	16688	L	26214	FO	89102905	053900	000003	502	G C=232,B=36
OBLGP	HD 50846	66	8.5	0652225	-011841	H	3	37089	L	1153	FO	89092007	074400	009000	403	G C=185,B=45
OBLGP	HD 50846	66	8.5	0652225	-011841	L	1	16381	L	1169	FO	89092009	092000	000040	501	G C=192,B=30
OBLGP	HD 50846	66	8.5	0652225	-011841	L	3	37090	L	1134	FO	89092009	095000	000110	400	G C=165,B=19
OBLGP	HD 50846	66	8.5	0652225	-011841	H	3	37187	L	1157	FO	89092508	082700	009000	404	G C=190,B=52
OBLGP	HD 50846	66	8.5	0652225	-011841	L	3	37188	L	1157	FO	89092510	102600	000120	500	G C=200,B=16
OBLGP	HD 50846	66	8.5	0652225	-011841	L	1	16420	L	1166	FO	89092510	103100	000040	502	G C=190,B=32
HCLSP	HD 51956	41	7.5	0656569	+005912	L	1	16803	L	2282	FO	89112105	050100	001100	X02	G C=1.5X,B=35
HCLSP	HD 51956	41	7.5	0656569	+005912	L	3	37643	L	2482	FO	89112105	050100	001100	302	G C=68,B=32
HCLSP	HD 52690	39	6.6	0659372	-034055	L	1	16802	L	5818	FO	89112103	034700	000500	502	G C=194,B=34
HCLSP	HD 52690	39	6.6	0659372	-034055	L	3	37642	L	5934	FO	89112104	040400	000800	400	G C=130,B=20
SALCW	HD 52877	49	3.43	0659435	-275142	L	1	16498	L			89100711	112400	000400		G
SALCW	HD 52877	49	3.43	0659435	-275142	L	1	16498	S	820	FU	89100711	112500	000400	232	G E=100,C=46,B=35
DCLDS	HD 52973	53	3.9	0701086	+203842	L	3	37678	S	653	FU	89112420	201700	001200	331	G E=70,C=60,B=26
DCLDS	HD 52973	53	3.9	0701086	+203842	H	1	16830	L	63	FU	89112420	203700	024000	?33	G E=131,C=20X,B=41
DCLDS	HD 52973	53	3.9	0701086	+203842	L	3	37679	S			89112500	004500	002500		G
DCLDS	HD 52973	53	3.9	0701086	+203842	L	3	37680	L	627	FU	89112501	014500	006500	X31	G E=56,C=4X,B=26
PHCAL	T FLOOD	98	0.0	0702177	+224249	L	1	16459	S			89100106	063900	000025	?8	G E=10X,B=100
PHCAL	WAVCAL	98	0.0	0702177	+224249	L	1	16459	S			89100106	064100	000100	?8	G E=10X,B=100
PHCAL	T FLOOD	98	0.0	0702177	+224249	H	1	16460	S			89100107	071000	000025	?9	G E=60X,B=108
PHCAL	WAVCAL	98	0.0	0702177	+224249	H	1	16460	S			89100107	071200	000016	?9	G E=60X,B=108
PHCAL	NULL	99	0.0	0702177	+224249	H	2	18331				89100107	074600	000000	05	G B=68
PHCAL	T FLOOD	98	0.0	0702177	+224249	L	3	37219	S			89100108	081700	000005	?9	G E=10X,B=105
PHCAL	WAVCAL	98	0.0	0702177	+224249	L	3	37219	S			89100108	081900	000002	?9	G E=10X,B=105

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
PHCAL	T FLOOD	98	0.0	0702177	+224249	H	3	37220	S			89100108	084700	000005	?9 G	E=60X,B=132
PHCAL	WAVCA	98	0.0	0702177	+224249	H	3	37220	S			89100108	084900	000200	?9 G	E=60X,B=132
PHCAL	WAVCAL	98	0.0	0702177	+224249	H	3	37221	S			89100109	090700	000200	?9 G	E=60X,B=131
PHCAL	T FLOOD	98	0.0	0702177	+224249	H	3	37221	S			89100109	092600	000005	?9 G	E=60X,B=131
PHCAL	T FLOOD	98	0.0	0702177	+224249	L	2	18332	S			89100109	094600	000010	?9 G	E=10X,B=105
PHCAL	WAVCAL	98	0.0	0702177	+224249	L	2	18332	S			89100109	094700	000001	?9 G	E=10X,B=105
PHCAL	T FLOOD	98	0.0	0702177	+224249	H	2	18333	S			89100110	101100	000010	?9 G	E=60X,B=136
PHCAL	WAVCAL	98	0.0	0702177	+224249	H	2	18333	S			89100110	101200	000022	?9 G	E=60X,B=136
PHCAL	TFLOOD	99	0.0	0702177	+224249	H	1	16461				89100111	114100	000025	09 G	B=104
PHCAL	TFLOOD	99	0.0	0702177	+224249	H	3	37222				89100112	121300	000005	09 G	B=105
CSLLW	L2 PUP	51	3.1	0712130	-443326	L	1	16845	L	604	FU	89112619	195500	001500	32 G	E=77C,53,B=36
CSLLW	L2 PUP	51	3.1	0712130	-443326	H	1	16846	L		FU	89112620	204700	031500	35 G	E=124,B=70
SALCW	HD 56855	47	2.69	0715225	-370022	L	1	16497	L	1677	FU	89100709	093400	000120	?03 G	C=6,2X,B=45
SALCW	HD 56855	47	2.69	0715225	-370022	L	1	16497	L			89100709	094200	000120	G	
DCLTT	HD 56167	53	8.5	0716203	+694554	L	1	16811	L	863	FO	89112207	074000	003500	503 G	C=221,B=48
DCLTT	HD 56167	53	8.5	0716203	+694554	L	1	16850	L			89112803	035100	003500	G	
DCLTT	HD 56167	53	8.5	0716203	+694554	L	1	16851	L			89112805	050100	010000	G	
DCLTT	HD 56167	53	8.5	0716203	+694553	L	1	16852	L			89112807	071000	003500	G	
DCLTT	HD56167	53	09.15	0716206	+694553	L	1	16812	L	00845	FO	89112204	044911	012000	601 V	EXPOSED AT GODDARD
SALCW	HD 57623	41	3.97	0716516	-675155	L	1	16496	L			89100708	081700	000120	G	
IMLDM	HR 2783	22	6.5	0718464	+552251	H	1	16439	L	5315	FO	89092712	124000	001300	403 G	C=153,B=41
IMLDM	HR 2783	22	6.5	0718464	+552251	H	1	16440	L		FO	89092713	133200	001800	403 G	C=185,B=43
IMLDM	HR 2783	22	6.5	0718464	+552251	H	1	16441	L		FO	89092714	143000	002100	503 G	C=200,B=41
IMLDM	HR 2784	22	5.4	0718476	+552239	H	1	16436	L	11629	FO	89092710	102900	000500	403 G	C=184,B=41
IMLDM	HR 2784	22	5.4	0718476	+552239	H	1	16437	L	11626	FO	89092711	111100	000530	503 G	C=199,B=43
IMLDM	HR 2784	22	5.4	0718476	+552239	H	1	16438	L	11646	FO	89092711	115300	000545	503 G	C=210,B=44
HCLSP	HD 58134	45	7.7	0720599	-293913	L	1	16376	L	1879	FO	89091809	095300	000800	402 G	C=150,B=36
HCLSP	HD 58134	45	7.7	0720599	-293913	L	3	37488	L	1904	FO	89103105	053000	008000	402 G	C=142,B=31
BEKGP	HD 58978	26	5.5	0724522	-225903	H	3	36229	L	14477	FO	89050915	154300	000250	502 G	C=205,B=37
BEKGP	HD 58978	26	5.5	0724522	-225903	L	3	36230	L	13581	FO	89050916	161700	000002	500 G	C=185,B=18
PNLSH	NGC 2392	70	10.4	0726132	+210051	L	3	37216	S	301	FO	89093023	231800	001000	30 G	E=106,B=18
PNLSH	NGC 2392	71	10.4	0726132	+210051	L	3	37217	S	302	FO	89100100	000400	015000	308 G	C=189,B=92
PNLSH	NGC 2392	71	10.4	0726132	+210051	L	3	37217	S	302	FO	89100100	000400	015000	308 G	C=189,B=92
PNLSH	NGC 2392	70	10.4	0726132	+210051	H	3	37218	S	298	FO	89100103	031500	013000	408 G	C=210,B=100
RVLEB	U MON	52	6.0	0728210	-094000	H	1	16718	L	10376	FO	89110201	015700	005400	333 G	E=110,C=88,B=42
RVLEB	U MON	52	6.3	0728210	-094000	H	1	16759	L	8501	FO	89110805	053600	007500	337 G	E=154,C=134,B=83
RVLEB	U MON	52	6.0	0728210	-094000	H	1	16784	L	6607	FO	89111407	073800	009000	333 G	E=125,C=92,B=49
RVLEB	U MON	52	6.3	0728210	-094000	H	1	16839	L	358	FO	89112603	034100	010000	344 G	E=157,C=85,B=57
PHCAL	HD64414	57	05.32	0731301	-142451	H	3	37457	L	21095	FO	89102514	142248	002500	463 V	
PHCAL	HD 60753	21	6.69	0732080	-502828	L	3	36526	L	6032	FO	89061614	140600	000010	500 G	C=190,B=18
PHCAL	HD 60753	21	6.69	0732080	-502828	L	1	15738	L	5409	FO	89061614	141000	000006	502 G	C=193,B=35
PHCAL	HD 60753	21	6.69	0732080	-502828	L	3	37446	L	5458	FO	89102404	040800	000043	500 G	C=205,B=18
PHCAL	HD60753	21	07.06	0732081	-502829	L	1	15543	S	05403	FO	89051904	042610	000012	500 V	
PHCAL	HD 60753	21	6.7	0732081	-502829	L	1	15869	L	5828	FO	89070806	065800	000025	502 G	C=185,B=32
PHCAL	HD60753	21	07.06	0732081	-502829	L	1	15543	L	05403	FO	89051904	041824	000006	500 V	
PHCAL	HD 60753	21	6.7	0732081	-502829	L	1	15870	L	5765	FO	89070807	073800	000010	302 G	C=120,B=32
PHCAL	HD60753	21	07.02	0732081	-502829	L	3	36297	S	05621	FO	89051904	043520	000030	501 V	
PHCAL	HD 60753	21	6.7	0732081	-502829	L	1	15871	L	5700	FO	89070808	081600	000031	502 G	C=210,B=35
PHCAL	HD60753	21	07.02	0732081	-502829	L	3	36297	L	05621	FO	89051904	043035	000010	601 V	
PHCAL	HD 60753	21	6.7	0732081	-502829	L	1	15872	L	5668	FO	89070808	085600	000041	502 G	C=248,B=34

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	EQC	Comment
PHCAL	HD60753	21	07.05	0732081	-502829	L	1	15544	S	05450	FO	89051905	052701	000012	500	V
PHCAL	HD 60753	21	6.7	0732081	-502829	L	1	15873	L	5624	FO	89070809	093500	000029	502	G C=205,B=33
PHCAL	HD60753	21	07.05	0732081	-502829	L	1	15544	L	05450	FO	89051905	052235	000006	500	V
PHCAL	HD 60753	21	6.7	0732081	-502829	L	1	15874	L	5643	FO	89070810	102200	000026	502	G C=190,B=33
PHCAL	HD60753	21	07.01	0732081	-502829	H	3	36298	L	05660	FO	89051905	055747	001300	401	V
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	36955	L	5218	FO	89090723	235800	000010	500	G C=204,B=19
PHCAL	HD60753	21	06.91	0732081	-502828	H	1	15579	L	00000	FO	89052304	043716	001800	801	V
PHCAL	HD 60753	21	6.7	0732081	-502829	L	1	16299	L	5204	FO	89090800	000300	000006	502	G C=207,B=33
PHCAL	HD60753	21	07.05	0732081	-502828	H	3	36324	L	05461	FO	89052305	050330	001300	500	V
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	36956	L	5154	FO	89090800	000300	000006		G
PHCAL	HD60753	21	07.05	0732081	-502828	H	1	15580	L	05450	FO	89052305	054232	000900	501	V
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	36957	L	5135	FO	89090802	023700	000010	500	G C=198,B=18
PHCAL	HD60753	21	07.04	0732081	-502828	L	1	15581	L	05519	FO	89052306	063807	000015	801	V
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	36958	L	5315	FO	89090803	032700	000010	500	G C=209,B=18
PHCAL	HD 60753	21	06.70	0732081	-502829	H	3	36966	L	04917	FU	89090822	221358	001300	500	V
PHCAL	HD 60753	21	6.7	0732081	-502829	L	1	16300	L	5124	FO	89090804	040500	000006	502	G C=216,B=34
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	36959	L	5004	FO	89090804	043900	000010	500	G C=223,B=18
PHCAL	HD 60753	21	6.7	0732081	-502829	L	1	16301	L	4958	FO	89090805	050900	000006	502	G C=213,B=34
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	36960	L	4861	FO	89090806	062500	000010	500	G C=195,B=18
PHCAL	HD 60753	21	6.7	0732081	-502829	L	1	16302	L	4855	FO	89090806	064600	000006	502	G C=200,B=32
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37103	L	5771	FO	89092100	001000	000041	501	G C=180,B=24
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37104	L	5823	FO	89092100	004700	000016	300	G C=97,B=20
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37105	L	5948	FO	89092101	012300	000049	501	G C=207,B=22
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37106	L	5784	FO	89092102	020200	000105	X01	G C=1.5X,B=24
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37107	L		FO	89092102	023100	000000	01	G B=21
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37108	L	5716	FO	89092103	030100	000045	501	G C=196,B=22
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37109	L	5672	FO	89092103	033800	000018	301	G C=103,B=21
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37110	L	5708	FO	89092104	041300	000053	501	G C=220,B=22
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37111	L	5734	FO	89092104	044800	000041	501	G C=184,B=25
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37112	L	6282	FO	89092105	052000	000011	400	G C=161,B=20
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37113	L	5441	FO	89092105	054800	000005	300	G C=79,B=20
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37114	L	5730	FO	89092106	061800	000011	400	G C=168,B=18
PHCAL	HD 60753	21	6.7	0732081	-502829	L	1	16455	L	5615	FO	89093009	093000	000006	402	G C=178,B=36
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37214	L	5615	FO	89093009	093400	000010	400	G C=170,B=20
PHCAL	HD 60753	21	6.7	0732081	-502829	L	3	37296	L	5541	FO	89101008	084600	000010	500	G C=176,B=18
PHCAL	HD 60753	21	6.7	0732081	-502829	L	2	18360	L	5459	FO	89112521	213700	000043	X01	G C=288,B=25
PHCAL	HD 60753	21	6.7	0732081	-502829	L	2	18361	L	5511	FO	89112522	221700	000001	301	G C=112,B=24
PHCAL	HD 60753	21	6.7	0732081	-502829	L	2	18362	L	5518	FO	89112522	225100	000051	501	G C=210,B=24
PHCAL	HD 60753	21	6.7	0732081	-502829	L	2	18364	L	5517	FO	89112600	001400	000043	501	G C=192,B=25
PHCAL	HD 60753	21	6.7	0732081	-502829	L	2	18366	L	5538	FO	89112601	011700	000026	401	G C=143,B=24
PHCAL	HD 60753	21	6.7	0732081	-502829	L	2	18367	L	5579	FO	89112601	015000	000009	301	G C=90,B=25
PHCAL	HD 60753	21	6.7	0732081	-502829	L	2	18368	L	5542	FO	89112602	022300	000043	501	G C=189,B=24
LIO12	HD 60855	26	06.10	0733459	-142251	H	3	37280	L	12154	FO	89100813	134105	000530	500	V
BEKTS	HD 60855	26	5.7	0733459	-142251	H	3	36215	L	7604	FO	89050718	181600	000540	301	G C=61,B=25
LIO12	HD60855	26	06.10	0733459	-142251	L	1	16508	L	12106	FO	89100813	135559	000005	700	V PREAD
BEKTS	HD 60855	26	5.7	0733459	-142251	H	1	15477	L	7566	FO	89050718	185700	000200	302	G C=80,B=40
LIO12	HD60855	26	06.13	0733459	-142251	L	3	37281	L	11900	FO	89100814	143848	000003	500	V
BEKTS	HD 60855	26	5.7	0733459	-142251	H	3	36216	L	12464	FO	89050720	203600	000540	502	G C=188,B=35
LIO12	HD60855	26	06.12	0733459	-142251	L	1	16509	L	11958	FO	89100815	150629	000003	600	V
BEKTS	HD 60855	26	5.7	0733459	-142251	H	1	15478	L	12626	FO	89050720	204600	000200	403	G C=170,B=41

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
CSLTA	HD 61421	41	0.5	0736410	+052115	L	3	37543	L	12392	FU	89111005	050600	000320	240	G E=163,C=20X,B=18
SDLJD	L55063	16	13.6	0737396	-272050	L	3	37611	L	47	SO	89111708	083000	001400	500	G C=200,B=18
SDLJD	L55063	16	13.6	0737396	-272050	L	1	16798	L	48	SO	89111709	091000	002400	X02	G C=1.5X,B=35
SDLJD	LSS 630	16	13.6	0737396	-272050	L	1	16799	L	59	SO	89111710	101400	001600	502	G C=205,B=35
ALKGP	OH739-14	70	13.5	073958	-143548	D	9	02193	2			89050920	202800	002000		G
BNLWF	OH739-14	70	13.5	0739580	-143548	L	1	15486	L		BO	89050920	204400	012500	04	G B=57
ISKBS	HD 62542	21	8.0	0740581	-420636	H	3	36338	L	1921	FO	89052607	073700	025500	506	G C=235,B=73
ISKBS	HD 62542	21	8.0	0740581	-420636	H	1	15600	L	1927	FO	89052612	120000	017000	X09	G C=4X,B=105
ISKBS	HD 62542	21	8.0	0740581	-420636	H	1	15609	L	2037	FO	89052711	110100	007500	504	G C=232,B=59
ISKBS	HD 62542	21	8.0	0740581	-420636	H	3	36352	L	1942	FO	89052807	074900	018000	404	G C=195,B=59
ISKBS	HD 62542	21	8.0	0740581	-420636	H	3	36353	L	1623	FO	89052811	111900	020000	406	G C=220,B=73
HCLSP	HD 63208	39	6.2	0745344	+231559	L	3	37644	L	7620	FO	89112107	070500	000120	400	G C=158,B=18
HCLSP	HD 63208	39	6.2	0745344	+231559	L	1	16804	L			89112107	071100	000045		G
SALCW	HD 64503	20	4.5	0750524	-384356	L	3	37478	L			89102906	064000	000003	501	G C=205,B=23
SALCW	HD 64503	20	4.5	0750524	-384356	L	3	37478	S			89102906	064100	000003		G
SALCW	HD 64503	20	4.5	0750524	-384356	L	1	16689	L	406	FU	89102906	065000	000003	502	G C=202,B=38
USSBS	HD 65228	41	4.2	0754425	-224443	H	1	15511	L	390	FU	89051400	000800	001200	402	G C=165,B=39
SBKMP	HD 65607	66	8.2	0756500	-072200	L	3	36280	L	1223	FO	89051715	154400	001200	431	G E=121,C=170,B=25
SBKMP	HD 65607	66	8.2	0756500	-072200	L	1	15532	L	1250	FO	89051716	160300	000500	X02	G C=1.5X,B=34
SBKMP	HD 65607	66	8.2	0756500	-072200	L	3	36282	L	1104	FO	89051720	201300	001400	541	G E=143,C=185,B=22
SBKMP	HD 65607	66	8.2	0756500	-072200	L	1	15534	L	1134	FO	89051720	203100	000230	5X2	G E=1.5X,C=190,B=32
SBKMP	HD 65607	66	8.2	0756500	-072200	L	3	36283	L	329	FO	89051721	211600	003500	551	G E=205,C=214,B=30
SBKMP	HD 65607	66	8.2	0756500	-072200	L	1	15535	L	1075	FO	89051722	223800	000230	541	G E=174,C=180,B=29
SBKMP	HD 65607	66	8.2	0756500	-072200	L	3	36284	L	1075	FO	89051722	224400	001500	5X2	G E=1.5X,C=211,B=32
OBKJE	BD +15 1733	47	8.9	0759415	+151907	L	1	15439	L	661	FO	89050220	200200	003000	3X9	G E=1.5X,C=250,B=202
OBKJE	BD +15 1733	47	8.9	0759415	+151907	L	3	36182	L	665	FO	89050220	204100	003000	04	G B=56
OBKJE	BD +15 1733	47	8.9	0759415	+151907	L	1	15440		708	FO	89050221	211900	001000	232	G E=72,C=50,B=34
OBKJE	BD +15 1733	47	8.9	0759415	+151907	L	1	15451	L	637	FO	89050416	160300	006000	3X5	G E=1.5X,C=151,B=64
OBKJE	BD +15 1733	47	8.9	0759415	+151907	L	3	36193	L	639	FO	89050417	171100	003000	03	G B=41
OBKJE	BD +15 1733	47	8.9	0759415	+151907	L	1	15452	L	666	FO	89050417	175000	001000	334	G E=99,C=79,B=57
SALCW	HD 66591	21	4.8	0759423	-632542	L	3	37269	L	281	FU	89100707	071200	000006	500	G C=239,B=18
SALCW	HD 66591	21	4.8	0759423	-632542	L	1	16495	L	24598	FO	89100707	072100	000005	502	G C=220,B=35
QSLBW	QSO 0759+651	85	14.4	0759530	+650822	L	1	16445	L		BO	89092800	001200	020000		G
QSLBW	QSO 0759+651	85	14.4	0759530	+650822	L	3	37199	L		BO	89092803	033800	020400	323	G E=57,C=71,B=43
PHCAL	BD+75 325	16	09.83	0804430	+750648	L	1	15434	L	00462	FO	89050203	034700	000020	500	V
PHCAL	BD+75 325	16	09.83	0804430	+750648	H	3	36179	L	00461	FO	89050204	042648	003000	500	V
PHCAL	BD+75 325	16	09.85	0804430	+750648	L	1	15435	L	00454	FO	89050204	042135	000050	700	V
PHCAL	BD+75 325	16	09.83	0804430	+750648	L	1	15436	L	00464	FO	89050205	053404	000020	500	V
PHCAL	BD+75 325	16	09.83	0804430	+750648	H	3	36180	L	00461	FO	89050206	062038	002700	500	V
PHCAL	BD+75 325	16	09.83	0804430	+750648	L	1	15437	L	00461	FO	89050206	061452	000050	700	V
PHCAL	BD +75 325	16	09.87	0804430	+750648	H	3	37254	L	00445	FO	89100515	155405	002500	400	V
PHCAL	BD +75 325	16	09.88	0804430	+750648	H	1	16483	L	00443	FO	89100516	163532	003000	500	V
PHCAL	BD+75 325	16	09.86	0804430	+750648	L	1	16484	L	00448	FO	89100517	174555	000020	500	V
PHCAL	BD+75 325	16	09.85	0804430	+750648	L	3	37255	L	00455	FO	89100517	174225	000014	500	V
PHCAL	BD +75 325	16	09.86	0804430	+750648	L	1	16485	L	00449	FO	89100518	184509	000040	700	V
PHCAL	BD+75 325	16	09.84	0804430	+750648	H	1	16491	L	00456	FO	89100616	165735	003000	501	V
PHCAL	BD+75 325	16	09.84	0804430	+750648	H	3	37263	L	00459	FO	89100617	173902	002500	500	V
PHCAL	BD+75 325	16	09.84	0804430	+750648	L	1	16492	L	00459	FO	89100618	184308	000020	500	V
PHCAL	BD+75 325	16	09.84	0804430	+750648	L	3	37264	L	00457	FO	89100518	184855	000014	500	V
PHCAL	BD+75 325	16	09.84	0804430	+750648	L	1	16493	L	00460	FO	89100619	192558	000040	700	V

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	EQC	Comment
PHCAL	BD +75 0325	16	9.54	0804431	+750647	L	1	16507	L	453	FO	89100812	124100	000020	502 G	C=194,B=34
PHCAL	BD +75 0325	16	9.54	0804431	+750647	L	3	37445	L	443	FO	89102401	013300	000014	500 G	C=195,B=18
PHCAL	BD +75 325	16	9.54	0804431	+750647	L	3	37692	L			89112808	083300	000014	G	
PHCAL	BD +75 325	16	9.54	0804431	+750647	L	1	16853	L			89112808	083700	000020	G	
PHCAL	BD +75 0325	16	9.5	0804432	+750648	L	1	16454	L	475	FO	89093007	074700	000020	403 G	C=186,B=46
PHCAL	BD +75 0325	16	9.5	0804432	+750648	L	3	37213	L	473	FO	89093007	075100	000014	401 G	C=161,B=22
HCLSP	HD 67542	45	6.5	0806300	+291425	L	3	37645	L	5787	FO	89112108	082800	000700	00 G	B=18
HCLSP	HD 67542	45	6.5	0806300	+291425	L	1	16805	L	5745	FO	89112108	083900	000230	502 G	C=200,B=32
SEKMP	HD 67862	66	9.2	0807130	-115006	L	3	36281	L	94	FO	89051716	165400	010000	333 G	E=134,C=116,B=42
SEKMP	HD 67862	66	9.2	0807130	-115006	L	1	15533	L	171	FO	89051718	184200	004000	5X3 G	E=1.5X,C=228,B=50
LI138	YZ CNC	54	13.09	0807526	+281733	L	3	37658	L	00101	SO	89112311	115512	001500	330 V	
LI138	YZ CNC	54	13.08	0807526	+281733	L	3	37659	L	00102	SO	89112312	124149	002000	340 V	
LI138	YZ CNC	54	13.17	0807526	+281733	L	1	16814	L	00094	SO	89112313	131536	002000	450 V	
LI138	YZ CNC	54	13.09	0807526	+281733	L	3	37660	L	00101	SO	89112313	135027	002500	340 V	
LI138	YZ CNC	54	13.14	0807526	+281733	L	1	16815	L	00096	SO	89112314	143618	002000	450 V	
LI138	YZ CNC	54	13.10	0807526	+281733	L	3	37661	L	00100	SO	89112315	151018	002500	450 V	
LI138	YZ CNC	54	13.24	0807526	+281733	L	1	16816	L	00088	SO	89112315	154707	002000	550 V	
LI138	YZ CNC	54	13.25	0807526	+281733	L	3	37662	L	00087	SO	89112316	162847	002500	450 V	
LI138	YZ CNC	54	13.16	0807526	+281733	L	1	16817	L	00095	SO	89112317	171029	002000	450 V	
LI138	YZ CNC	54	13.25	0807526	+281733	L	3	37663	L	00087	SO	89112317	174855	002500	350 V	
LI138	YZ CNC	54	13.18	0807526	+281733	L	1	16818	L	00093	SO	89112318	183226	001500	441 V	PREAD
CVLAH	SU UMA	54	14.5	0808048	+624528	L	3	37157	S	31	SO	89092305	052400	008700	331 G	E=127,C=74,B=28
CVLAH	SU UMA	54	14.5	0808048	+624528	L	3	37266	L			89100622	221400	003000	G	
IDKJC	HD 68633	21	8.0	0809290	-510228	L	3	36277	L	1633	FO	89051621	210700	000702	500 G	C=191,B=17
IDKJC	HD 68633	21	8.0	0809290	-510228	L	1	15529	L	2014	FO	89051621	212700	001200	X03 G	C=3X,B=41
IDKJC	HD 68633	21	8.0	0809290	-510228	L	1	15529	S	2014	FO	89051621	215200	000212	X02 G	C=1.5X,B=36
BEKTS	HD 68980	26	4.8	0811362	-354451	H	3	36214	L	368	FU	89050716	164600	000115	502 G	C=190,B=35
BEKTS	HD 68980	26	4.8	0811362	-354451	H	1	15476	L	363	FU	89050717	171900	000040	403 G	C=190,B=41
SALCW	HD 69081	20	5.1	0812056	-361011	L	3	37479	L			89102908	081100	000005	G	
SALCW	HD 69081	20	5.1	0812056	-361011	L	3	37479	S	239	FU	89102908	081200	000005	501 G	C=240,B=23
SALCW	HD 69081	20	5.1	0812056	-361011	L	1	16690	L	21529	FO	89102908	082200	000005	503 G	C=242,B=41
SKKAM	RX PUPPI	57	12.0	0812282	-413318	L	3	36308	L	324	SO	89052010	100900	003600	G	
PHCAL	T-FLOOD	98	9.0	0816164	-004954	L	1	16711	S			89110104	045700	000025	?9 G	E=10X,B=103
PHCAL	WAVCAL	98	9.0	0816164	-004954	L	1	16711	S			89110104	045900	000001	?9 G	E=10X,B=103
PHCAL	T-FLOOD	98	9.0	0816164	-004954	H	1	16712	S			89110105	053300	000025	G	
PHCAL	WAVCAL	98	9.0	0816164	-004954	H	1	16712	S			89110105	053500	000016	?9 G	E=60X,B=105
PHCAL	WAVCAL	98	9.0	0816164	-004954	H	2	18341	L			89110105	055200	000000	00 G	B=10
PHCAL	T-FLOOD	98	9.0	0816164	-004954	L	3	37495	S			89110106	061900	000005	?9 G	E=10X,B=103
PHCAL	WAVCAL	98	9.0	0816164	-004954	L	3	37495	S			89110106	062100	000002	?9 G	E=10X,B=103
PHCAL	T-FLOOD	98	9.0	0816164	-004954	H	3	37496	S			89110106	064500	000005	?9 G	E=60XB=123
PHCAL	WAVCAL	98	9.0	0816164	-004954	H	3	37496	S			89110106	064700	000200	?9 G	E=60X,B=123
PHCAL	T-FLOOD	98	9.0	0816164	-004954	L	2	18342	S			89110106	065100	000010	?8 G	E=10X,B=92
PHCAL	WAVCAL	98	9.0	0816164	-004954	L	2	18342	S			89110106	065200	000001	?8 G	E=10X,B=92
PHCAL	T-FLOOD	98	9.0	0816164	-004954	H	2	18343	S			89110107	071700	000010	?9 G	E=50X,B=140
PHCAL	WAVCAL	98	9.0	0816164	-004954	H	2	18343	S			89110107	071800	000010	?9 G	E=50X,B=140
PHCAL	TFLOOD	99	9.0	0816164	-004954	L	3	37497	L			89110108	082500	000005	09 G	B=104 GET
PHCAL	TFLOOD	99	9.0	0816164	-004954	L	2	18344	L			89110108	082800	000010	09 G	B=112
PHCAL	TFLOOD	99	9.0	0816164	-004954	L	1	16713	L			89110109	091800	000025	08 G	B=100
CVLAH	Z CAM	54	13.2	0819398	+731623	L	3	37155	L	64	SO	89092223	234800	002000	331 G	E=57,C=56,B=21
CVLAH	Z CAM	54	13.2	0819398	+731623	L	3	37156	S	54	SO	89092300	004300	020000	343 G	E=180,C=145,B=49

PRO	Object	CL	MAG	R.A.	DEC	D C Image A	FES	MD Obs.date Exptim mmmmsstt	ECC	Comment
SALCW HD	70761	40	5.89	0820430	-261111	L 1 16691 L	9882	FO 89102909 093700 000500	503 G	C=205,B=42
SALCW HD	70761	40	5.89	0820430	-261111	L 3 37480 L	10063	FO 89102909 095800 000800	301 G	C=53,B=30
SALCW HD	70761	40	5.89	0820430	-261111	L 3 37480 S	10063	FO 89102911 111000 000800	402 G	C=162,B=32
SALCW HD	70761	40	5.89	0820430	-261111	L 1 16692 L	9390	FO 89102911 113000 000530	503 G	C=215,B=43
NSKPW PUPPIS	A	75		0821001	-424203	L 3 36544 L		89061805 055200 071500	09 G	B=116
NSKPW PUPPIS	A	75		0821001	-424203	L 3 36545 L		BO 89061810 105300 011500	04 G	B=53
NSKPW PUPPIS	A	75		0821001	-424203	D 9 02199 2		89061812 122800 000000	G	
KMO50 PUPPIS	A	75	15.00	0821002	-424203	E 9 02198 2	00000	BO 89061722 220000 004000	V	SWP 36544
SAKCW HD	74006	45	0.93	083808	-350747	L 1 15568 L	482	FU 89052122 224000 000115	X02 G	C=3X,B=31
SAKCW HD	74006	45	0.93	083808	-350747	L 1 15568 S	481	FU 89052122 224500 000100	X02 G	C=1.5X,B=31
SAKCW HD	74006	45	3.98	083808	-350747	L 1 15613 L	478	FU 89052719 191300 000115	503 G	C=253,B=41
SAKCW HD	74006	45	3.98	083808	-350747	L 1 15613 S	524	FU 89052719 193400 000500	503 G	C=253,B=41
SALCW HD	74375	23	4.3	0839308	-593455	L 3 36721 L	445	FU 89072218 184200 000003	500 G	C=219,B=17
SALCW HD	74375	23	4.3	0839308	-593455	L 3 36721 L	445	FU 89072218 184300 000003	500 G	C=219,B=17
SALCW HD	74375	23	4.3	0839308	-593455	L 1 16494 L		89100706 062400 000002	G	
OCLTS	J38	46	12.6	0840004	-531157	L 1 16699 L	88	SO 89100022 220300 013500	334 G	E=108,C=89,B=60
OCLTS	MJ536	46	13.4	0840135	-524849	L 1 16700 L	54	SO 89100101 011900 021200	336 G	E=108,C=99,B=71
LA099	HD74371	25	05.68	0840144	-451351	H 3 37493 L	16600	FO 89100116 164811 004000	701 V	
LA099	HD74371	25	05.66	0840144	-451351	H 1 16708 L	16865	FO 89100117 173831 001200	603 V	
LA099	HD74371	25	99.99	0840144	-451351	H 3 37494 L	00000	89100118 180843 008000	701 V	
OCLTS	MJ795	46	13.5	0840313	-524128	L 1 16710 L	46	SO 89100121 215800 037300	238 G	E=128,C=120,B=100
SAKCW HD	75112	21	6.4	0844499	-342618	L 3 36317 L	7415	FO 89052118 184300 000035	500 G	C=218,B=17
SAKCW HD	75112	21	6.4	084450	-342619	L 1 15566 L	7451	FO 89052118 185200 000021	502 G	C=202,B=34
BLKCU 3C		85	14.5	09	-053108	L 1 15676 L		BO 89060806 060300 006000	303 G	C=90,B=42
LI049 T PYX		55	15.00	0902371	-321046	L 1 16757 L	00000	BO 89110711 115247 013000	334 V	
LI049 T PYX		55	15.00	0902372	-321047	L 3 37536 L	00000	BO 89110714 141210 028000	333 V	PREAD. XSPREP @ 10
LA099	HD79186	25	05.54	0909154	-443945	H 1 16709 L	18270	FO 89100119 194911 001000	702 V	
LA099	HD 79186	24	05.53	0909154	-443945	H 3 37498 L	18448	FO 89110111 114209 004200	600 V	
LA099	HD 79186	24	05.60	0909154	-443945	H 3 37499 L	17329	FO 89110114 140043 002000	500 V	
LQ070	HYDRA	A	86	15.90	0915412	-115304	L 3 36384 L	00000	BO 89060222 223411 037300	231 V
KQ070	HYDRA	A	86	15.90	0915412	-115345	L 1 15661 L	00000	BO 89060422 224425 036300	303 V
SALCW HD	80404	40	2.2	0915451	-590353	L 3 36720 L	2426	FO 89072217 171500 000022	400 G	C=170,B=20
SALCW HD	80404	40	2.2	0915451	-590353	L 3 36720 S	2414	FO 89072217 171500 000200	?00 G	C=10X,B=18
SALCW HD	80404	40	2.2	0915451	-590353	L 1 15980 L	2393	FU 89072217 175500 000006	503 G	C=221,B=42
SALCW HD	80404	40	2.2	0915451	-590353	L 1 15980 L	2425	FU 89072217 175500 000035	?03 G	C=10X,B=41
LA099	HD 80558	25	06.40	0917030	-512056	H 1 16714 L	09500	FO 89110115 150443 005900	501 V	
PHCAL HD	81188	20	2.6	0920337	-544746	H 3 36789 S	2348	FU 89080314 140600 000040	X04 G	C=3X,B=52
LE091	NGC 2865	81	13.22	0921143	-225645	L 3 36252 L	00090	SO 89051223 235445 041200	102 V	
LE091	NGC2865	81	13.24	0921144	-225646	L 1 15501 L	00088	SO 89051123 234738 042000	303 V	
LDKSB HD	81809	44	5.8	092518	-055106	H 1 15584 L	14706	FO 89052318 180100 005000	X33 G	E=107,C=1.5X,B=43
LGLSD HD	81937	40	3.7	0927352	+631049	L 3 37554 L	680	FU 89111106 063400 000700	200 G	C=20X,B=18
MGKLW	R CAR	51	7.0	0930592	-623401	H 1 15444 L	3719	FO 89050311 115400 017500	38 G	E=191,B=98
RVLEB	R CAR	51	5.0	0930592	-623401	L 1 16741 L	787	89110407 073900 002000	5X4 G	E=1.7X,C=240,B=54
RVLEB	R CAR	51	5.0	0930592	-623401	H 1 16742 L	778	FU 89110408 083600 013500	3?8 G	E=12,C=164,B=95
DCKEB	L CAR	53	3.4	0943524	-621637	L 3 36181 L	500	FU 89050217 171000 010000	339 G	E=168,C=171,B=144
QSKRE	MKN 1243	84	14.5	0957140	+131700	L 3 36410 L		SO 89060706 062000 012000	232 G	E=64,C=47,B=32
SAKCW HD	86663	49	4.7	095734	+081705	L 1 15567 L	304	FU 89052119 195000 009000	XX3 G	E=4X,C=2X,B=50 SR1
SAKCW HD	86663	49	4.7	095734	+081705	L 1 15567 S	304	FU 89052121 214300 001200	XX3 G	E=4X,C=2X,B=50 SR1
SAKCW HD	86663	49	4.71	095734	+081705	L 1 15615 L	27978	FO 89052721 214700 005500	5X3 G	E=2X,C=205,B=43
LBLSS HE	3-365	26	8.9	1002497	-582514	L 1 16078 L	597	FO 89080613 134500 000500	5X2 G	E=1.5X,C=237,B=37

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
LELSS	HE 3-365	26	8.9	1002497	-582514	L	3	36803	L	601	FO	89080613	135800	002500	501	G C=211,B=28
PNLHB	LO 4	70	16.6	1003433	-440655	L	3	37701	L		BO	89113003	032700	017000	503	G C=205,B=44
PNLHB	LO 4	70	16.6	1003433	-440655	L	3	37702	L		BO	89113006	064100	019000	502	G C=195,B=36
PNLHB	LO 4	70	16.6	1003440	-440706	L	3	37696	L		BO	89112904	040500	006000	300	G C=84,B=18
PNLHB	LO 4	70	16.6	1003440	-440706	L	1	16856	L		BO	89112905	051300	016000	303	G C=128,B=50
PNLHB	LO 4	70	16.6	1003440	-440706	L	3	37697	L		BO	89112908	080200	016500	501	G C=185,B=26
LAT00	HD87618	30	09.65	1004549	+685653	L	1	16568	L	00544	FO	89101814	140728	006000	703	V
LAT00	HD87936	31	09.38	1007130	+692521	L	1	16569	L	00690	FO	89101815	155330	006000	703	V
NFKRD	PB 6	70	12.0	101118	-500407	L	3	36238	L		BO	89051017	172000	018000	3X9	G E=3X,C=158,B=113
NFKRD	PB 6	70	12.0	101118	-500607	L	3	36242	L		BO	89051115	155800	006000	341	G E=161,C=58,B=25
NFKRD	PB 6	70	12.0	101118	-500607	L	1	15498	L		BO	89051117	170700	009000	337	G E=183,C=130,B=90
LELSS	HE3-395	26	8.9	1014298	-552052	L	3	36737	L	709	FO	89072517	171900	001000	400	G C=153,B=19
LELSS	HE3-395	26	8.9	1014298	-552052	L	1	15987	L	710	FO	89072517	173400	000400	X02	G C=1.5X,B=32
JULJC	JUPITER	03	-2.5	1015086	-074908	H	3	37551	L			89111101	013900	001000	X33	G E=127,C=2X,B=48
LGLSD	HD 89254	40	5.2	1015086	-074908	L	3	37552	L	16002	FO	89111103	035200	002200	200	G C=20X,B=18
TIKAB	HD 89388	47	3.4	1015246	-610455	H	1	15591	L	851	FU	89052418	181600	003500	3X6	G E=2X,C=140,B=75
TIKAB	HD 89388	47	3.4	1015246	-610455	H	1	15598	L	851	FU	89052521	214800	001500	342	G E=178,C=58,B=32
ISKJS	HD 89688	20	6.7	1018271	+023231	L	1	15540	L	5983	FO	89051820	204000	000005	402	G C=146,B=32
ISKJS	HD 89688	20	6.7	1018271	+023231	L	3	36294	L	5950	FO	89051820	204500	000006	300	G C=86,B=17
ISKJS	HD 89688	20	6.7	1018271	+023231	L	1	15541	L	5711	FO	89051821	214600	000016	X02	G C=2X,B=33
ISKJS	HD 89688	20	6.7	1018271	+023231	L	3	36295	L	5687	FO	89051821	215100	000032	X00	G C=1.5X,B=17
HMLDL	HD 89822	36	5.0	1020330	+654912	L	3	37317	L	21442	FO	89101512	120700	000031	500	G C=200,B=20
HMLDL	HD 89822	36	5.0	1020330	+654912	L	1	16564	L	21515	FO	89101512	121700	000016	502	G C=213,B=36
QSLRR	BD 1032-142	85	13.7	1029267	-140125	L	3	37590	L		BO	89111501	014200	007000	351	G E=187,C=78,B=21
QSLRR	X 0558-504	85	15.0	1029589	-140758	L	3	37589	L		BO	89111420	205800	023000	343	G E=184,C=121,B=42
LGLSD	HD 92787	41	5.2	1040365	+462759	H	1	16771	L	16557	FO	89111104	045900	002000	?03	G C=15X,B=46
LGLSD	HD 92787	41	5.2	1040365	+462759	L	3	37553	L	17433	FO	89111105	052600	001600	230	G E=44C=20X,B=18
PHCAL	HD 93521	12	7.04	1045335	+375003	L	3	37693	L			89112810	100300	000003		G
PHCAL	HD 93521	12	7.04	1045335	+375003	L	1	16854	L			89112810	100800	000003		G
IIKJC	HD 94144	20	6.8	1048429	-610014	L	1	15527	L	4522	FO	89051617	175200	000118	502	G C=236,B=35 SR1
IIKJC	HD 94144	20	6.8	1048429	-610014	L	1	15527	S	4545	FO	89051617	175800	000022	502	G C=236,B=35 SR1
IIKJC	HD 94144	20	6.8	1048430	-610014	L	3	36272	L	4945	SO	89051522	223000	000117	500	G C=202,B=18
IIKJC	HD 96042	12	8.2	1101350	-590948	L	3	36276	L	1017	FO	89051618	185200	000401	500	G C=180,B=17
IIKJC	HD 96042	12	8.2	1101350	-590948	L	1	15528	L	1289	FO	89051619	190900	000618	X03	G C=3X,B=42
IIKJC	HD 96042	12	8.2	1101350	-590948	L	1	15528	S	1289	FO	89051619	192900	000124	502	G C=230,B=38
AGLOM	NGC 3516	84	12.5	1103226	+725020	L	3	37327	L	97	SO	89101622	220900	033500	444	G E=193,C=197,B=58
AGLOM	NGC 3516	84	12.5	1103226	+725020	L	1	16567	L	99	SO	89101703	034800	006000	442	G E=182,C=150,B=38
AGLOM	NGC 3516	84	13.5	1103229	+725022	L	3	37274	L	111	SO	89100722	220400	010000	331	G E=87,C=85,B=30
AGLOM	NGC 3516	84	13.5	1103229	+725022	L	3	37275	L			89100800	001900	025000		G
AGLOM	NGC 3516	84	13.5	1103229	+725022	L	3	37308	L	97	SO	89101221	215400	034500	454	G E=218,C=210,B=60
AGLOM	NGC 3516	84	13.5	1103229	+725022	L	1	16548	L	99	SO	89101303	034600	006000	443	G E=186,C=160,B=41
AGLOM	NGC 3516	84	12.5	1103229	+725022	L	3	37398	L	157	SO	89101922	220500	012000		G B=2X
AGLOM	NGC 3516	84	12.5	1103229	+725022	L	1	16573	L	151	SO	89102000	001400	006000		G B=3X
AGLOM	NGC 3516	84	12.5	1103236	+725020	L	3	37293	L	98	SO	89100922	220900	033000	454	G E=242,C=195,B=60
AGLOM	NGC 3516	84	12.5	1103236	+725020	L	1	16524	L	96	SO	89101003	034500	006500	453	G E=198,C=170,B=41
LELSS	HE3-591	26	9.8	1106334	-602633	L	3	36665	L	179	SO	89071209	093400	007600	00	G B=20
LC124	CDP-29-8887	58	11.44	1106488	-294523	L	3	36565	L	00110	FO	89062221	215439	016000	111	V
LC124	HEN3 600	58	12.16	1108055	-371533	L	3	36566	L	00231	SO	89062301	014118	018700	231	V
LI045	SY MUS	57	11.00	1129549	-650835	L	3	36964	L	00162	FO	89090817	172228	000800	230	V HE2=106, C4=64
LI045	SY MUS	57	11.00	1129550	-650836	L	3	36596	L	00117	FO	89070123	232124	002000	250	V

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	EOC	Comment
LI045	SY MUS	57	11.00	1129550	-650836	L	1	15823	L	00119	FO	89070123	234950	001500	341	V
LI045	SY MUS	57	11.00	1129550	-650836	L	3	36597	L	00119	FO	89070200	001814	009000	360	V
LI045	SY MUS	57	11.00	1129550	-650836	L	1	15824	L	00126	FO	89070201	015632	005000	361	V
LI045	SY MUS	57	10.98	1129550	-650836	L	1	16306	L	00165	FO	89090817	174757	001000	331	V
LI045	SY MUS	57	11.00	1129550	-650836	L	3	36965	L	00163	FO	89090818	184530	012000	560	V HE2, C4 SATURATED
HGLBS	HD 100340	20	10.2	1130149	+053259	H	3	36475	L	285	FO	89061306	061300	010000	404	G C=195,B=55
HGLBS	HD 100340	20	10.2	1130149	+053259	H	1	15717	L	283	FO	89061308	080000	005000	304	G C=146,B=54
HGLBS	HD 100340	20	10.2	1130149	+053259	H	3	36491	L	263	FO	89061405	055100	015000	505	G C=240,B=64
HGLBS	HD 100340	20	10.2	1130149	+053259	H	3	36524	L	341	FO	89061605	054800	013000	505	G C=223,B=61
HGLBS	HD 100340	20	10.2	1130149	+053259	H	1	15736	L	338	FO	89061608	080600	008000	404	G C=200,B=55
LA080	HD100546	26	07.17	1131141	-695507	H	1	16052	L	04931	FO	89080218	180042	001100	401	V
LA080	HD100546	26	07.08	1131141	-695507	H	1	16075	L	05328	FO	89080600	003840	001300	401	V
BEKTS	HD 100673	26	4.6	1132229	-535916	H	1	15475	L	305	FU	89050715	154600	000200	403	G C=170,B=41
BEKTS	HD 100673	26	4.6	1132229	-535916	H	3	36213	L	304	FU	89050715	155700	000700	503	G C=240,B=41
BEKTS	HD 100673	26	4.6	1132229	-535916	H	1	15668	L	299	FU	89060618	181800	000220	403	G C=185,B=42
BEKTS	HD 100673	26	4.6	1132229	-535916	H	3	36404	L	299	FU	89060618	182700	000545	503	G C=222,B=42
KQ085	NGC3783	84	13.31	1136300	-372800	L	3	36233	L	00083	SO	89051000	000113	006500	350	V
KQ085	NGC3783	84	13.28	1136300	-372800	L	1	15487	L	00085	SO	89051001	011528	005500	562	V
LA097	HD 101584	40	07.46	1138337	-551748	H	1	15964	L	03800	FO	89071919	193512	014000	563	V FOCUS STEP -4.45 AT
CVLSS	GQ MUS	55	0.0	1149350	-665539	L	3	36930	L		BO	89090300	002000	095300	339	G E=158,C=155,B=107
CVLSS	REF # 1	64		1150070	-665432	S	9	02241	2			89090214	144000	000020	339	G E=158,C=155,B=107
USSBS	HD 103287	30	2.44	1151124	+535820	H	3	37444	L	2113	FU	89102400	003500	000345	X05	G C=3X,B=67
LA080	HD104237	34	07.07	1157335	-775451	H	3	36782	L	05372	FO	89080218	183012	032000	732	V 35MIN+70MIN+215MIN
LA080	HD104237	34	07.04	1157335	-775451	H	1	16053	L	05532	FO	89080219	191019	003300	571	V
LA080	HD 104237	34	07.05	1157335	-775451	H	1	16054	L	05488	FO	89080221	210022	001000	350	V
LA080	HD 104237	34	07.05	1157335	-775451	L	3	36799	L	05465	FO	89080517	174951	001000	740	V
LA080	HD 104237	34	07.02	1157335	-775451	H	1	16072	L	05616	FO	89080518	181549	001200	350	V
LA080	HD104237	34	07.01	1157335	-775451	H	3	36800	L	05668	FO	89080518	184616	030000	732	V 40+220+40=300 MIN
LA080	HD 104237	34	07.05	1157335	-775451	L	3	36799	S	05465	FO	89080518	180522	000400	420	V
LA080	HD 104237	34	07.02	1157335	-775451	L	1	16073	S	05605	FO	89080519	193748	000040	460	V
LA080	HD 104237	34	07.02	1157335	-775451	L	1	16073	L	05605	FO	89080519	193211	000100	770	V
LA080	HD104237	34	07.02	1157335	-775451	H	1	16074	L	05605	FO	89080523	233131	001200	350	V
IGLBS	HD 104337	20	5.30	1158174	-192249	H	3	36484	L	17855	FO	89061320	202000	000220	503	G C=226,B=41
IGLBS	HD 104337	20	5.30	1158174	-192249	H	1	15719	L	18334	FO	89061320	204600	000001	02	G B=35
IGLBS	HD 104337	20	5.3	1158174	-192249	H	3	36492	L	21446	FO	89061408	085300	000200	502	G C=210,B=38
BEKTS	HD 105382	26	4.5	1205292	-502258	H	1	15460	L	399	FO	89050520	205000	000145	X03	G C=2X,B=43
BEKTS	HD 105382	26	4.5	1205292	-502258	H	3	36198	L	398	FU	89050521	210300	000300	X03	G C=2X,B=43
BEKTS	HD 105382	26	4.5	1205292	-502258	H	3	36203	L	395	FU	89050618	184600	000215	X03	G C=1.5X,B=49
BEKTS	HD 105382	26	4.5	1205292	-502258	H	1	15466	L	400	FU	89050618	185200	000115	503	G C=230,B=50
BEKTS	HD 105382	26	4.5	1205292	-502258	H	1	15667	L	396	FU	89060616	165500	000100	503	G C=236,B=44
BEKTS	HD 105382	26	4.5	1205292	-502258	H	3	36403	L	396	FU	89060617	170000	000145	503	G C=236,B=44
LBLSS	HE3-759	26	11.6	1208394	-621305	L	3	36664	L	310	SO	89071203	034600	020000	303	G C=73,B=45
LBLSS	HE3-759	26	11.6	1208394	-621305	L	1	15903	L	295	SO	89071207	072400	009000	305	G C=145,B=64
OD56Y	UX CVN	28	13.2	1212176	+365529	L	1	15747	L	78	SO	89061813	135600	001300	503	G C=200,B=42
OD56Y	UX CVN	28	13.2	1212176	+365529	L	3	36546	L	75	SO	89061814	141700	001500	500	G C=213,B=20
OD56Y	UX CVN	28	13.2	1212176	+365529	L	1	15748	L	72	SO	89061814	145300	002600	X03	G C=2X,B=41
OD56Y	UX CVN	28	13.2	1212176	+365529	L	3	36547	L		SO	89061815	152800	001500	501	G C=230,B=28
OD56Y	UX CVN	28	13.2	1212176	+365529	L	3	36548	S	78	SO	89061816	162200	002800	406	G C=183,B=71
QSKDY	3C 273	85	13.	1226331	+021941	D	9	02200	2			89062018	180000	000020		G
QSKDY	3C 273	85	13.	1226331	+021941	L	3	36560	L	79	SO	89062018	183800	003000	341	G E=145,C=80,B=22

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
KQ120	3C 273	85	13.47	1226332	+021942	L	3	36265	L	00072	SO	89051503	031712	003000	350	V
QSKDY	3C 273	85	13.0	1226332	+021942	H	3	36561	L	69	SO	89062019	194200	088000	339	G E=222,C=210,B=144
KQ120	3C 273	85	13.47	1226332	+021942	L	1	15518	L	00072	SO	89051504	040858	003000	402	V
QSKDY	SKY BKGD	07		1226332	+021942	L	1	15762	L			89062019	194600	098126	09	G B=137
KQ120	3C 273	85	13.44	1226332	+021942	L	3	36266	L	00074	SO	89051504	045202	005500	460	V
QSKDY	3C 273	85	13.0	1226332	+021942	D	9	02202	2			89062120	205000	000000		G
KQ120	3C 273	85	13.38	1226332	+021942	L	1	15519	L	00078	SO	89051505	055608	005000	502	V
QSKDY	3C 273	85	13.0	1226332	+021942	H	3	36563	L	74	SO	89062121	211200	092000	349	G E=234,C=205,B=115
LQ141	3C273	85	13.41	1226332	+021943	L	1	15722	L	00076	SO	89061402	021047	003000	501	V
QSKDY	SKY BKGD	07		1226332	+021942	L	1	15768	L			89062121	213500	089500	09	G B=125
LQ141	3C273	85	13.39	1226332	+021943	L	3	36489	L	00077	SO	89061402	024837	003000	350	V
QSKDY	3C 273	85	13.0	1226332	+021942	0	9	02204	D			89062320	204100	000000		G
LQ141	3C273	85	13.44	1226332	+021943	L	1	15723	L	00074	SO	89061403	032556	003000	501	V
QSKDY	3C 273	85	13.0	1226332	+021942	H	3	36572	L	72	SO	89062320	205300	093000	339	G E=210,C=195,B=137
LQ141	3C273	85	13.41	1226332	+021943	L	3	36490	L	00076	SO	89061404	040328	004500	350	V
QSKDY	SKY	07		1226332	+021942	L	1	15779	L			89062321	211600	090500	09	G B=138
KM084	3C273	85	13.45	1226332	+021942	E	9	02209	2	00073	SO	89062522	222000	004000		V FOR SWP 36576
QSKDY	3C 273	85	13.0	1226332	+021942	0	9	02206	D			89062420	201100	000000		G
LQ141	3C 273	85	13.47	1226332	+021942	L	3	36617	L	00072	SO	89070523	234502	003000	350	V
QSKDY	SKY	07		1226332	+021942	L	1	15784	L			89062420	202700	095700	09	G B=141
LQ141	3C 273	84	13.42	1226332	+021942	L	1	15858	L	00075	SO	89070600	002509	003000	501	V
QSKDY	3C 273	85	13.0	1226332	+021942	H	3	36574	L	72	SO	89062511	111000	096100	349	G E=231,C=217,B=130
LQ141	3C 273	84	13.42	1226332	+021942	L	3	36618	L	00075	SO	89070601	010227	005000	360	V
QSKDY	3C 273	85	13.0	1226332	+021942	0	9	02208	D			89062520	204800	000000		G
LQ141	3C 273	84	13.42	1226332	+021942	L	1	15859	L	00075	SO	89070602	020021	004700	500	V
QSKDY	3C 273	85	13.0	1226332	+021942	H	3	36576	L	73	SO	89062521	210600	091800	339	G E=202,C=185,B=126
QSKDY	SKY BKGD	07		1226332	+021942	L	1	15790	L			89062521	210800	091000	09	G B=138
KQ120	3C 273	85	13.47	1226333	+021942	L	3	36370	L	00072	SO	89053103	032700	003000	350	V
KQ120	3C 273	85	13.44	1226333	+021942	L	1	15627	L	00074	SO	89053104	041004	003000	401	V
KQ120	3C 273	85	13.41	1226333	+021942	L	3	36371	L	00076	SO	89053104	044811	006000	460	V
KQ120	3C273	85	13.42	1226333	+021942	L	1	15628	L	00075	SO	89053105	055418	005300	501	V
KM084	3C273	85	13.51	1226333	+021942	E	9	02201	2	00069	SO	89062103	030000	004000		V FOR SWP36561
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15763	L	4935	FU	89062113	135100	009000	4?3	G E=20X,C=200,B=50
LGLKC	HD 108903	49	1.6	1228227	-565000	L	3	36562	L	4952	FU	89062115	152900	003000	351	G E=214,C=53,B=30
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15764	L	5004	FU	89062116	160600	000200	342	G E=157,C=70,B=34
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15769	L	4973	FU	89062213	134400	009000	5?4	G E=20X,C=215,B=56
LGLKC	HD 108903	49	1.6	1228227	-565000	L	3	36564	L	4923	FU	89062215	153100	003000	351	G E=198,C=55,B=25
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15770	L	4826	FU	89062216	162000	000230	352	G E=196,C=69,B=31
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15775	L	4884	FU	89062313	135500	009000	5?4	G E=20X,C=217,B=51
LGLKC	HD 108903	49	1.6	1228227	-565000	L	3	36571	L	4951	FU	89062315	154100	003000	352	G E=205,C=60,B=32
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15776	L	4957	FU	89062316	165900	000230	342	G E=145,C=60,B=32
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15780	L	4862	FU	89062413	134300	009000	5?3	G E=20X,C=205,B=50
LGLKC	HD 108903	49	1.6	1228227	-565000	L	3	36573	L	4884	FU	89062415	152300	003000	251	G E=215,C=45,B=26
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15781	L	4890	FU	89062416	161100	000203	342	G E=179,C=60,B=32
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15785	L	4872	FU	89062513	134600	009000	5?4	G E=20X,C=207,B=56
LGLKC	HD 108903	49	1.6	1228227	-565000	L	3	36575	L	4835	FU	89062515	152500	003000	251	G E=205,C=46,B=28
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15786	L	5338	FU	89062516	162500	000230	351	G E=187,C=62,B=29
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15791	L	4817	FU	89062613	134100	009000	5?4	G E=20X,C=210,B=59
LGLKC	HD 108903	49	1.6	1228227	-565000	L	3	36577	L	4936	FU	89062615	152100	003000	351	G E=192,C=57,B=28
LGLKC	HD 108903	49	1.6	1228227	-565000	H	1	15792	L	4936	FU	89062616	162000	000230	352	G E=203,C=62,B=32

PRO	Object	CL	MAG	R.A.	DEC	D C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
LGLKC	HD 108903	49	1.6	1228227	-565000	H 1	15803	L	4910	FU	89062718	181100	000230	351 G	E=202,C=62,B=30
LGLKC	HD 108903	49	1.6	1228227	-565000	L 3	36579	L	4949	FU	89062718	182200	003000	251 G	E=191,C=42,B=25
LGLKC	HD 108903	49	1.6	1228227	-565000	H 1	15804	L	5007	FU	89062719	191500	009000	5?3 G	E=20X,C=200,B=48
LGLKC	HD 108903	49	1.6	1228227	-565000	H 1	15810	L	4817	FU	89062817	175700	000230	351 G	E=212,C=70,B=30
LGLKC	HD 108903	49	1.6	1228227	-565000	L 3	36584	L	4862	FU	89062818	180800	003000	351 G	E=200,C=54,B=23
LGLKC	HD 108903	49	1.6	1228227	-565000	H 1	15811	L	5323	FU	89062818	185300	006000	4?3 G	E=14X,C=150,B=44
LGLKC	HD 108903	49	1.6	1228227	-565000	H 1	15813	L	4969	FU	89062914	141300	008000	3?8 G	E=18X,C=180,B=95
LGLKC	HD 108903	49	1.6	1228227	-565000	L 3	36585	L	5055	FU	89062915	154300	004500	355 G	E=250,C=110,B=62
LGLKC	HD 108903	49	1.6	1228227	-565000	H 1	15814	L	5098	FU	89062916	163400	000230	342 G	E=158,C=65,B=32
LGLKC	HD 108903	49	1.6	1228227	-565000	L 3	36586	L	5254	FU	89062917	171200	003000	351 G	E=184,C=58,B=30
LGLKC	HD 108903	49	1.6	1228227	-565000	H 1	15816	L	5018	FO	89063014	140500	007500	4?7 G	E=17X,C=200X,B=88
LGLKC	HD 108903	49	1.6	1228227	-565000	L 3	36588	L	5096	FU	89063015	153100	003000	342 G	E=182,C=76,B=40
LGLKC	HD 108903	49	1.6	1228227	-565000	H 1	15817	L	5205	FU	89063016	162400	000230	352 G	E=183,C=70,B=32
LA084	HD 108945	36	05.20	1228307	+245035	H 3	36628	L	14658	FO	89070701	013539	003000	500 V	
LA084	HD108945	36	05.72	1228307	+245035	H 3	36637	L	16125	FO	89070722	224807	004000	500 V	
LA084	HD108945	36	05.81	1228307	+245035	H 3	36638	L	15131	FO	89070723	235558	004000	500 V	
LA084	HD108945	36	05.84	1228307	+245035	H 3	36639	L	14843	FO	89070801	010540	004000	500 V	
LA084	HD108945	36	05.86	1228307	+245035	H 3	36640	L	14555	FO	89070802	021715	003000	500 V	
LA084	HD108945	36	05.85	1228308	+245036	L 3	36428	L	14690	FO	89060901	010206	000200	600 V	(1+1)MIN REF.PNTS
LA084	HD 108945	36	05.91	1228308	+245036	L 3	36444	L	14084	FO	89061100	003221	000200	600 V	(1+1)MIN REF.PNTS
LA084	HD108945	36	05.83	1228308	+245036	L 3	36487	L	14903	FO	8906.323	235933	000200	600 V	(1+1)MIN REF.PNTS
LA084	HD108945	36	05.83	1228308	+245036	H 3	36488	L	14899	FO	8906.400	003448	003000	500 V	
ACLFB	HD 109787	30	3.8	1234574	-481558	L 3	36625	L	581	FU	89070617	172400	000020	X00 G	C=3X,B=18
ACLFB	HD 109787	30	3.8	1234574	-481558	H 3	36626	L	583	FU	89070617	175500	002400	X03 G	C=3X,B=48
LEI00	SN 1989M	56	13.00	1235060	+120500	L 1	15863	L	00113	SO	89070622	225746	009000	341 V	
SNLRK	SN 1989M	56	12	1235091	+120555	L 1	15907	L	105	SO	89071216	163100	013500	305 G	C=139,B=62
SNLRK	SN 1989M	56	12	1235091	+120555	L 1	15947	L	78	SO	89071716	162800	012500	303 G	C=100,B=50
SNLRK	SAO SN 1989M	56	12	1235092	+120555	S 9	02212	2			89070803	033900	002000	G	
SNLRK	SN 1989M	56	12	1235092	+120555	L 1	15868	L	112	SO	89070804	040500	012000	433 G	E=99,C=148,B=48
LEI59	SN 1989 M	56	13.00	1235094	+120557	L 1	15913	L	00095	SO	89071323	235933	016800	302 V	
LEI59	SN1989M	56	13.50	1235094	+120557	L 1	15965	L	00000	BO	89072023	231334	019200	303 V	
LQ069	NGC4579	80	12.57	1235125	+120539	D 9	02197	2	00160	SO	89060922	220000	004000	V	FOR SWP36435
AGLGR	NGC 4579	88	10.6	1235125	+120539	L 3	36436	L	160	SO	89061005	053500	087500	339 G	E=185,C=155,B=105
AGLGR	NGC 4579	88	10.6	1235125	+120539	L 1	15710	L	161	SO	89061205	055900	039000	349 G	E=218,C=182,B=111
LEI00	SN1989M	56	12.97	1235130	+120542	L 1	15878	L	00112	SO	89070820	201125	013500	352 V	
BEKTS	HD 109857	26	6.5	1235595	-750542	H 1	15461	L	6173	FO	89050522	221100	001200	403 G	C=163,B=41
BEKTS	HD 109857	26	6.5	1235595	-750542	H 3	36199	L	6177	FO	89050522	223600	001300	301 G	C=97,B=30
BEKTS	HD 109857	26	6.5	1235595	-750542	H 3	36204	L	6682	FO	89050619	195900	003300	404 G	C=193,B=55
BEKTS	HD 109857	26	6.5	1235595	-750542	H 1	15467	L	6234	FO	89050620	203900	001530	403 G	C=192,B=48
BEKTS	HD 109857	26	6.5	1235595	-750542	H 1	15669	L	6147	FO	89060619	191800	001530	403 G	C=188,B=42
BEKTS	HD 109857	26	6.5	1235595	-750542	H 3	36405	L	6106	FO	89060619	195000	003300	402 G	C=180,B=37
KM084	3C273	85	13.44	1236332	+021943	E 9	02203	2	00074	SO	89062123	231500	004000	V	FOR SWP 36563
KM084	3C273	85	13.47	1236332	+021943	E 9	02205	2	00072	SO	89062402	021000	004000	V	FOR SWP 36572
KM084	3C273	85	13.47	1236332	+091943	E 9	02207	2	00072	SO	89062501	014000	004000	V	FOR SWP36574
LQ149	TOL 1238-3	84	13.99	1238105	-362853	L 1	15621	L	00045	SO	89053000	000330	040400	303 V	
LQ149	TOL 1238-3	84	13.97	1238106	-362854	L 3	36378	L	00046	SO	89060100	003109	033600	302 V	
HCLSP	HD 110716	41	6.2	1241559	-683327	L 1	16375	L	7817	FO	89091807	075100	001500	X03 G	C=5X,B=41
HCLSP	HD 110716	41	6.2	1241559	-683327	L 3	37066	L	8227	FO	89091808	081900	003500	301 G	C=68,B=29
LDKDB	HD 111721	44	8.0	1248490	-131254	L 1	15612	L	1511	FO	89052717	175400	001500	409 G	C=245,B=116
CWKPS	EX HYA	54	13.5	1249427	-285841	L 3	36267	L	90	FO	89051508	080000	004000	341 G	E=150,C=94,B=30

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	EOC	Comment
OBKEF	59 4537	20	11.0	1250285	-600430	L	1	15504	L	119	FO	89051214	144200	005100	X03	G C=2.5X,B=42
OBKEF	59 4537	20	11.0	1250285	-600430	L	1	15504	S	119	FO	89051216	161200	001300	302	G C=125,B=40
OBKEF	59 4537	20	11.0	1250285	-600430	L	3	36248	L	143	FO	89051216	163900	003000	401	G C=128,B=25
OBKEF	59 4541	20	10.2	1250355	-600442	L	3	36251	L	259	FO	89051222	223000	001500	401	G C=165,B=23
OBKEF	59 4541	20	10.2	1250355	-600442	L	1	15507	L	217	FO	89051316	160400	003300	X03	G C=3X,B=41
OBKEF	59 4541	20	10.2	1250355	-600442	L	1	15508	L	219	FO	89051317	174400	000400	502	G C=200,B=36
OBKEF	HD 111934	23	6.9	1250377	-600510	L	3	36254	L	1114	FO	89051318	183200	000320	401	G C=140,B=21
OBKEF	I-05	23	8.6	1250410	-600453	L	3	36256	L	111	FO	89051321	210900	000140	500	G C=176,B=19
OBKEF	I-05	23	8.6	1250410	-600453	L	1	15510	L	931	FO	89051321	215900	000234	401	G C=155,B=30
OBKEF	59 4552	23	8.3	1250463	-600756	L	3	36250	L	1235	FO	89051220	202800	000400	501	G C=200,B=21
OBKEF	59 4552	23	8.3	1250463	-600756	L	1	15506	L	1496	FO	89051221	211800	000445	X02	G C=3X,B=38
OBKEF	59 4552	23	8.3	1250463	-600756	L	1	15506	S	1213	FO	89051221	214300	000102	402	G C=166,B=32
OBKEF	HD 111973	24	5.9	1250489	-600619	L	3	36255	L	9138	FO	89051319	191900	000154	501	G C=220,B=22
OBKEF	HD 111973	24	5.9	1250489	-600619	L	1	15509	L	9264	FO	89051319	193400	000107	X02	G C=3X,B=39
OBKEF	HD 111973	24	5.9	1250489	-600619	L	1	15509	S	9198	FO	89051319	194900	000013	502	G C=204,B=35
OBKEF	59 4557	20	8.5	1250513	-600742	L	3	36257	L	1476	FO	89051322	222600	000345	500	G C=218,B=18
OBKEF	59 4564	23	9.0	1250573	-600842	L	1	15505	L	626	FO	89051217	175200	001330	X03	G C=3X,B=45
OBKEF	59 4564	23	9.0	1250573	-600842	L	1	15505	S	690	FO	89051218	183600	000320	X03	G C=1.5X,B=41
OBKEF	59 4564	23	9.0	1250573	-600842	L	3	36249	L	766	FO	89051219	194100	000800	X01	G C=1.5X,B=22
OBKEF	-59 4563	20	11.0	1251006	-601031	L	1	15502	L	105	FO	89051207	075900	008400	X02	G C=3X,B=32
OBKEF	-59 4563	20	11.0	1251006	-601031	L	1	15502	S	105	FO	89051209	095400	002200	?03	G C=23,B=45
OBKEF	-59 4563	20	11.0	1251006	-601031	L	3	36246	L	471	SO	89051210	102500	005000	501	G C=230,B=25
OBKEF	59 4571	20	11.0	1251145	-600530	L	1	15503	L	119	FO	89051211	114200	005400	X03	G C=3X,B=44
OBKEF	59 4571	20	11.0	1251145	-600530	L	1	15503	S	124	FO	89051213	131300	001400	?03	G C=16,B=41
OBKEF	-59 4571	20	11.0	1251145	-600530	L	3	36247	L	110	FO	89051213	133700	003000	301	G C=120,B=23
BLKOU	3C 279	87	14.5	1253359	-053108	L	3	36420	L	31	SO	89060807	071300	022000	303	G C=100,B=48
BLKOU	3C 279	87	14.5	1253359	-053108	L	1	15677	L	34	SO	89060811	110200	010500	304	G C=134,B=51
PHCAL	HD 113904	13	5.6	1304520	-650221	H	3	36788	S	14381	FO	89080313	130700	001200	X03	G C=1.5X,B=49
LDKDB	HD 114946	44	5.3	1311300	-194007	L	1	15611	L	15336	FO	89052715	153600	000315	X04	G C=1.5X,B=53
LDKDB	HD 114946	44	5.3	1311300	-194007	L	1	15611	S	14404	FO	89052716	161300	001500	X04	G C=1.5X,B=53
MSLHJ	UY CEN	50	7.7	1313370	-442626	L	1	16090	L	4994	FO	89080722	224500	020000	344	G E=168,C=84,B=60
LDKSB	HD 115383	44	5.2	1314180	+094106	H	1	15575	L	15640	FO	89052219	190100	002000	533	G E=134,C=210,B=42
GHKBS	HD 116852	13	8.5	1325440	-783550	H	3	36335	L	1126	FO	89052414	140800	004000	533	G E=139,C=210,B=42
GHKBS	HD 116852	13	8.5	1325440	-783550	H	3	36350	L	1449	FO	89052712	125800	007000	X04	G C=2X,B=58
GHKBS	HD 116852	13	8.5	1325440	-783550	H	1	15610	L	1165	FO	89052714	141400	003000	504	G C=230,B=52
RSKLR	HD 117555	45	8.0	1328246	+242924	L	1	15735	L	1112	FO	89061518	182700	000200	342	G E=177,C=79,B=32
RSKLR	HD 117555	45	8.0	1328246	+242924	L	3	36513	L	1138	FO	89061518	185300	012000	333	G E=137,C=65,B=42
RSKLR	HD 117555	40	8.0	1328246	+242924	L	1	15740	L	1236	FO	89061617	174800	000200	342	G E=164,C=83,B=38
RSKLR	HD 117555	40	8.0	1328246	+242924	L	3	36529	L	1243	FO	89061617	175700	017200	344	G E=171,C=86,B=57
KA006	HD117555	45	08.72	1328247	+242925	H	3	36529	L	01243	FO	89061617	175721	017200		V
RSKLR	HD 117555	45	8.20	1328247	+242925	L	1	15745	L	1098	FO	89061717	172800	000200	342	G E=169,C=83,B=39
RSKLR	HD 117555	45	8.20	1328247	+242925	L	1	15746	L	1076	FO	89061718	181700	000200	342	G E=170,C=75,B=37
RSKLR	HD 117555	45	8.20	1328247	+242925	L	3	36543	L	1083	FO	89061718	182700	014000	344	G E=167,C=90,B=59
RSKLR	HD 117555	45	8.2	1328247	+242925	L	1	15749	L	1192	FO	89061817	175500	000200	352	G E=207,C=80,B=37
RSKLR	HD 117555	45	8.2	1328247	+242925	L	3	36549	L	1189	FO	89061818	180400	016400	344	G E=196,C=89,B=60
LA084	HD118022	36	05.36	1331357	+035454	H	3	36426	L	20563	FO	89060822	220005	002200	502	V
LA084	HD118022	36	05.35	1331357	+035454	H	1	15683	L	20696	FO	89060822	223655	000800	502	V
LA084	HD118022	36	05.23	1331357	+035454	H	3	36635	L	22355	FO	89070720	201652	002200	600	V
LA084	HD118022	36	05.19	1331357	+035454	H	1	15867	L	22792	FO	89070720	205104	000800	501	V
LA084	HD118022	36	05.07	1331357	+035454	L	3	36636	L	24435	FO	89070721	212614	000025	500	V

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
LA084	HD118022	36	05.32	1331358	+035454	L	3	36427	L	21138	FO	89060823	232004	000025	500	V
LA084	HD118022	36	05.29	1331358	+035454	L	1	15684	L	21469	FO	89060823	235332	000006	502	V
LA084	HD 118022	36	05.38	1331358	+035453	H	3	36442	L	20289	FO	89061021	215125	002200	600	V
LA084	HD 118022	36	05.37	1331358	+035453	H	1	15698	L	20531	FO	89061022	222055	000800	501	V
LA084	HD 118022	36	05.35	1331358	+035454	L	3	36443	L	00216	FU	89061023	230321	000025	500	V
LA084	HD 118022	36	05.34	1331358	+035454	L	1	15699	L	20813	FO	89061023	233537	000006	501	V
LA084	HD118022	36	05.25	1331358	+035454	H	3	36485	L	21999	FO	89061321	213431	002200	600	V
LA084	HD110822	36	05.30	1331358	+035454	H	1	15720	L	21461	FO	89061322	220621	000800	501	V
LA084	HD118022	36	05.26	1331358	+035454	L	3	36486	L	21973	FO	89061322	224053	000025	500	V
LA084	HD118022	36	05.27	1331358	+035454	L	1	15721	L	21821	FO	89061323	231259	000006	501	V
QSLBW	QSO 1334+246	85	14.7	1334574	+243818	L	3	36285	L		BO	89051800	000100	041800	306	G C=100,B=73
QSKRE	NGC 5273	84	14.0	1339553	+355420	L	3	36387	L		BO	89060311	113500	005500	201	G C=44,B=24
KS148	PONS-WINNE	06	13.00	1344400	-020835	E	9	02228	L	00000	BO	89060618	185000	004000		V NO SPECTRUM VISIBLE
KS148	PONS-WINNE	06	13.00	1344400	-020835	L	1	16080	L	00000	BO	89060618	185423	010600	006	V
PHCAL	HD 120315	21	1.84	134534	+493344	H	2	18310	L	3946	FU	89052816	160000	000120	?02	G C=10X,B=38
PHCAL	HD 120315	21	1.84	134534	+493344	H	2	18311	L	3926	FU	89052817	173300	000016		G C=11X
PHCAL	HD 120315	21	1.84	134534	+493344	H	2	18312	L	3950	FU	89052818	181900	000120	?02	G C=10X,B=38
PHCAL	HD 120315	21	1.84	134534	+493344	H	3	36354	L	3957	FU	89052818	185200	000060	?02	G C=10X,B=40
PHCAL	HD 120315	21	1.84	134534	+493344	H	3	36355	L	3943	FU	89052819	192600	000042	X02	G C=7X,B=38
PHCAL	HD 120315	21	1.84	134534	+493344	H	3	36356	L	3905	FU	89052820	202900	000130	?07	G C=15X,B=85
PHCAL	HD 120315	21	1.84	134534	+493344	H	3	36357	L	3900	FU	89052821	213600	000042	X06	G C=7X,B=73
PHCAL	HD 120315	21	1.84	134534	+493344	H	3	36358	L	3909	FU	89052822	221300	000042	X01	G C=7X,B=27
PHCAL	HD 120315	21	1.8	1345343	+493344	H	3	36528	L	3931	FU	89061616	164300	000006	402	G C=184,B=35
IGLBS	HD 120307	20	3.40	1346297	-412621	H	3	36481	L	1060	FU	89061318	182400	000015	502	G C=190,B=35
IGLBS	HD 120307	20	3.40	1346297	-412621	H	3	36482	L	1234	FU	89061318	185600	000018	502	G C=213,B=39
NPKRD	NGC 5315	70	10.0	135011	-661605	L	1	15491	L	239	FO	89051020	205800	006000	XX3	G E=2X,C=1.5X,B=42
NPKRD	NGC 5315	70	10.0	135011	-661605	L	3	36239	L	245	FO	89051022	220400	004500	3X1	G E=1.5X,C=87,B=25
NPKRD	NGC 5315	70	10.0	135011	-661605	L	3	36243	L	225	FO	89051119	191800	002000	351	G E=240,C=65,B=30
NPKRD	NGC 5315	70	10.0	135011	-661605	L	1	15499	L	244	FO	89051119	194800	002000	453	G E=199,C=157,B=43
NPKRD	NGC 5315	70	10.0	135011	-661605	L	3	36244	S	228	FO	89051120	203200	003000	351	G E=177,C=46,B=23
NPKRD	NGC 5315	70	10.0	135011	-661605	L	1	15500	S	233	FO	89051121	211400	002000	331	G E=75,C=63,B=30
NPKRD	NGC 5315	70	10.0	135011	-661605	L	3	36245	L	266	FO	89051121	214800	005500	3X1	G E=1.5X,C=76,B=25
NPKHB	1350-61	70	12.9	1350416	-615917	L	3	37030	L	121	SO	89091505	051800	009000	01	G B=24
AGKGR	MRK 279	84	14.2	135152	+693316	L	3	36192	L		BO	89050408	082500	014000	223	G E=44,C=60,B=41
AGKGR	MRK 279	84	14.2	135152	+693316	L	1	15450	L		BO	89050410	105400	023500	339	G E=197,C=150,B=117
AGKGR	MRK 279	84	14.2	1351535	+693313	L	1	15687	L	24	SO	89060906	060800	012000	343	G E=200,C=120,B=50
AGKGR	MRK 279	84	14.2	1351535	31	L	3	36430	L	24	SO	89060908	083000	024500	333	G E=130,C=72,B=43
IGLBS	HD 121263	20	2.5	1352244	-470234	H	3	36483	L	2367	FU	89061319	194100	000006	402	G C=180,B=36
SCLTA	HD 121447	50	7.9	1353029	-180017	L	3	36712	L	1922	FO	89072103	033500	058000	08	G B=91
SCLTA	HD 121447	50	7.9	1353029	-180017	L	1	15972	L	1826	FO	89072113	133500	007500	338	G E=186,C=175,B=98
ISKJS	HD 121800	20	9.1	1353545	+662139	L	3	36292	L	696	FO	89051818	181700	000040	400	G C=138,B=18
ISKJS	HD 121800	20	9.1	1353545	+662139	L	1	15538	L	685	FO	89051818	182100	000040	502	G C=203,B=32
ISKJS	HD 121800	20	9.1	1353545	+662139	L	3	36293	L	684	FO	89051819	192300	000200	X00	G C=1.5X,B=17
ISKJS	HD 121800	20	9.1	1353545	+662139	L	1	15539	L	692	FO	89051819	192900	000110	X02	G C=2X,B=33
HGLBS	HD 121968	20	10.3	1356160	-024018	H	3	36476	L	252	FO	89061309	093200	010000	404	G C=153,B=51
HGLBS	HD 121968	20	10.3	1356160	-024018	H	1	15718	L	237	FO	89061311	112000	006000	304	G C=150,B=55
HGLBS	HD 121968	20	10.3	1356160	-024018	H	3	36477	L	247	FO	89061312	122800	013000	405	G C=183,B=63
HGLBS	HD 121968	20	10.3	1356160	-024018	H	3	36493	L	285	FO	89061410	100600	016000	405	G C=192,B=62
HGLBS	HD 121968	20	10.3	1356160	-024018	H	3	36525	L	219	FO	89061610	101000	006800		G
HGLBS	HD 121968	20	10.3	1356160	-024018	H	1	15737	L	1254	FO	89061611	112800	008300	404	G C=170,B=59

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
IMLPF	HD 122408	30	4.30	1359058	+014707	H	1	15765	L	399	FU	89062117	174000	000224	403	G C=180,B=42
IMLPF	HD 122408	30	4.30	1359058	+014707	H	1	15766	L	404	FU	89062118	183500	000224	403	G C=177,B=42
IMLPF	HD 122408	30	4.30	1359058	+014707	H	1	15767	L	395	FU	89062119	192800	000224	403	G C=177,B=42
IMLPF	HD 122408	30	4.3	1359058	+014707	H	1	16039	L	404	FU	89080102	025900	000500	403	G C=168,B=43
SRLJE	HD 122250	49	5.5	1400232	-763325	L	1	15643	L	27005	FO	89060217	174600	002000	3X7	G E=1.5X,C=126,B=90
SRLJE	HD 122250	49	5.5	1400233	-763325	L	1	15731	L	316	FU	89061513	135600	002000	352	G E=205,C=62,B=38
SRLJE	HD 122250	49	5.5	1400233	-763325	L	1	15793	L	318	FU	89062617	172600	002000	3X2	G E=1.5X,C=65,B=36
SRLJE	HD 122250	49	5.5	1400233	-763325	L	1	15897	L	347	FU	89071111	114900	002000	342	G E=187,C=68,B=37
SRLJE	HD 122250	49	5.5	1400233	-763325	L	1	15990	L	364	FU	89072607	075600	002000	352	G E=188,C=62,B=36
SRLJE	HD 122250	49	5.5	1400233	-763325	L	1	16067	L	384	FU	89080511	111400	002000	352	G E=238,C=64,B=36
SRLJE	HD 122250	49	5.5	1400233	-763325	L	1	16174	L	367	FU	89081913	132800	002000	354	G E=232,C=91,B=53
SRLJE	HD 122250	49	5.5	1400233	-763325	L	1	16202	L	356	FU	89082512	121800	002000	354	G E=215,C=86,B=52
SRLJE	HD 122250	49	5.5	1400233	-763325	L	1	16294	L	351	FU	89090709	094000	002000	342	G E=167,C=62,B=36
SRLJE	HD 122250	49	5.5	1400233	-763325	L	1	16414	L	346	FU	89092314	142700	002000	352	G E=232,C=70,B=38
QSLBW	Q1402+426	85	16.50	1402376	+434127	L	3	36278	L	00000	BO	89051700	005210	035500	302	V
LQ087	PG1407+265	85	14.00	1407078	+263231	L	3	36351	L	00000	BO	89052800	001218	039500	311	V
LQ087	PG1407+265	85	16.00	1407078	+263231	L	1	15616	L	00000	BO	89052823	235457	041200	413	V
RRLEB	TV BOO	53	11.0	1414370	+423530	L	3	36755	L	345	SO	89072904	041100	006000	301	G C=70,B=30
RRLEB	TV BOO	53	11.0	1414370	+423530	L	1	16011	L	418	SO	89072905	054300	001000	302	G C=70,B=32
RRLEB	TV BOO	53	11.0	1414370	+423530	L	1	16011	S	418	SO	89072905	054300	001000	302	G C=70,B=32
KQ147	NGC5548	84	13.73	1415430	+252200	L	3	36240	L	00057	SO	89051100	003422	007000	350	V
KQ147	NGC5548	84	13.87	1415430	+252200	L	1	15606	L	00050	SO	89052700	001145	005500	454	V
AGKMM	NGC 5548	84	14.02	1415430	+252200	L	3	36691	L	00044	SO	89071720	200452	007000	351	V
AGKMM	NGC 5548	84	13.92	1415430	+252200	L	1	15948	L	00048	SO	89071721	212355	005500	452	V
KQ147	NGC5548	84	13.75	1415432	+252200	L	1	15492	L	00056	SO	89051101	015329	005500	452	V
KQ147	NGC 5548	84	13.81	1415432	+252159	L	3	36264	L	00053	SO	89051500	000220	007500	350	V
KQ147	NGC 5548	84	13.85	1415432	+252200	L	1	15517	L	00051	SO	89051501	013248	006000	602	V
KQ147	NGC5548	84	13.83	1415432	+252200	L	3	36296	L	00052	SO	89051823	235243	008000	360	V
KQ147	NGC5548	84	13.81	1415432	+252200	L	1	15542	L	00053	SO	89051901	013925	006000	461	V
KQ147	NGC5548	84	13.65	1415432	+252200	L	3	36322	L	00061	SO	89052300	000238	006000	350	V
KQ147	NGC5548	84	13.85	1415432	+252200	L	1	15578	L	00051	SO	89052301	011345	006000	361	V
KQ147	NGC5548	84	13.90	1415432	+252200	L	3	36323	L	00049	SO	89052302	022223	005000	350	V
KQ147	NGC5548	84	13.87	1415432	+252200	L	3	36345	L	00050	SO	89052701	011346	007500	351	V
KQ147	NGC 5548	84	13.87	1415432	+252200	L	3	36369	L	00050	SO	89053100	002743	007500	350	V
KQ147	NGC 5548	84	13.92	1415432	+252200	L	1	15626	L	00048	SO	89053101	015128	006000	452	V
KQ147	NGC5548	84	13.90	1415432	+252200	L	3	36580	L	00049	SO	89062722	221848	008000	350	V
KQ147	NGC5548	84	13.92	1415432	+252200	L	1	15805	L	00048	SO	89062723	234717	006000	452	V
KQ147	NGC 5548	84	13.00	1415432	+252200	L	3	36595	L	00048	SO	89070120	200945	008000	550	V
KQ147	NGC 5548	84	13.00	1415432	+252200	L	1	15822	L	00050	SO	89070121	214002	006000	451	V
KQ147	NGC5548	84	13.90	1415432	+252200	L	3	36616	L	00049	SO	89070520	200207	008000	350	V
KQ147	NGC5548	84	13.87	1415432	+252200	L	1	15857	L	00050	SO	89070521	213045	006000	451	V
KQ147	NGC 5548	84	13.00	1415432	+252200	L	3	36648	L	00053	SO	89070919	194442	007000	350	V
KQ147	NGC 5548	84	13.00	1415432	+252200	L	1	15889	L	00053	SO	89070921	210523	005500	451	V
KQ147	NGC 5548	84	13.00	1415432	+252200	L	3	36675	L	00049	SO	89071320	200218	008000	350	V
KQ147	NGC 5548	84	13.00	1415432	+252200	L	1	15912	L	00049	SO	89071321	214048	006000	452	V
AGKMM	NGC 5548	84	13.99	1415432	+252200	L	3	36692	L	00045	SO	89071722	222751	003000	231	V
AGLMM	NGC 5548	84	13.5	1415434	+252200	L	3	36446	L	47	SO	89061105	054900	007500	352	G E=194,C=85,B=32
AGLMM	NGC 5548	84	13.5	1415434	+252200	L	1	15702	L	47	SO	89061107	071300	005000	353	G E=216,C=121,B=41
AGLMM	NGC 5548	84	13.5	1415434	+252200	L	3	36447	L	47	SO	89061108	080900	004000	331	G E=114,C=45,B=22
AGLMM	NGC 5548	84	13.5	1415434	+252200	L	3	36509	L	47	SO	89061505	054900	007500	351	G E=181,C=66,B=29

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
AGLMM	NGC 5548	84	13.5	1415434	+252200	L	1	15729	L		48	SO	89061507	071400	005000	352 G E=198,C=118,B=40
AGLMM	NGC 5548	84	13.5	1415434	+252200	L	3	36510	L		46	SO	89061508	081400	004000	241 G E=128,C=44,B=24
AGLMM	NGC 5548	84	13.5	1415434	+252200	L	3	36551	L		48	SO	89061906	060900	007500	342 G E=168,C=72,B=38
AGLMM	NGC 5548	84	13.5	1415434	+252200	L	1	15750	L		48	SO	89061907	073300	005000	353 G E=212,C=130,B=42
AGLMM	NGC 5548	84	13.5	1415434	+252200	L	3	36715	L		46	SO	89072204	040400	007500	341 G E=170,C=60,B=23
AGLMM	NGC 5548	84	13.5	1415434	+252200	L	1	15976	L		48	SO	89072205	052900	005000	342 G E=181,C=112,B=40
AGLMM	NGC 5548	84	13.5	1415434	+252200	L	3	36716	L		49	SO	89072206	062500	002500	331 G E=68,C=45,B=24
AGKMM	NGC 5548	84	13.5	1415435	+252201	L	3	36184	L		52	SO	89050308	080900	006500	341 G E=170,C=80,B=28
AGKMM	NGC 5548	84	13.5	1415435	+252201	L	1	15443	L		55	SO	89050309	092600	005000	453 G E=207,C=150,B=42
AGKMM	NGC 5548	84	13.5	1415435	+252201	L	3	36185	L		54	SO	89050310	102600	002500	331 G E=95,C=57,B=23
AGKMM	NGC 5548	84	13.5	1415435	+252159	L	3	36210	L		54	SO	89050708	082400	006500	351 G E=235,C=85,B=25
AGKMM	NGC 5548	84	13.5	1415435	+252261	L	1	15473	L		55	SO	89050709	093700	005000	453 G E=216,C=147,B=41
AGKMM	NGC 5548	84	13.5	1415435	+252201	L	3	36385	L		51	SO	89060305	055200	007500	351 G E=206,C=72,B=28
AGKMM	NGC 5548	84	13.5	1415435	+252201	L	1	15647	L		50	SO	89060307	072600	005000	453 G E=215,C=144,B=42
AGKMM	NGC 5548	84	13.5	1415435	+252201	L	3	36386	L		50	SO	89060308	082700	002400	231 G E=98,C=45,B=28
AGKMM	NGC 5548	84	13.5	1415435	+252159	L	1	15670	L		49		89060709	091700	005000	352 G E=214,C=125,B=38
AGKMM	NGC 5548	84	13.5	1415435	+252159	L	3	36411	L		49	SO	89060710	101700	007500	341 G E=160,C=70,B=25
AGKMM	NGC 5548	84	13.5	1415435	+252159	L	1	15671	L		50	SO	89060711	114200	003500	342 G E=166,C=115,B=35
AGKMM	NGC 5548	84	13.5	1415435	+252159	L	3	36412	L		49	SO	89060712	122800	002500	331 G E=76,C=44,B=22
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	3	36567	L		46	SO	89062305	054500	007500	351 G E=218,C=65,B=27
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	1	15773	L		47	SO	89062307	070900	005000	402 G C=187,B=40
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	3	36568	L		48	SO	89062308	080700	004300	341 G E=123,C=50,B=22
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	1	15989	L		46	SO	89072420	202700	072500	343 G E=187,C=131,B=41
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	3	36739	L		45	SO	89072604	041900	007500	341 G E=160,C=60,B=26
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	3	36740	L		46	SO	89072606	063600	002000	230 G E=55,C=38,B=19
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	3	36758	L		45	SO	89073003	035300	007500	G E=152,C=58
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	1	16019	L		45	SO	89073005	051800	005000	353 G E=193,C=100,B=41
AGLMM	NGC 5548	84	13.5	1415435	+252201	L	3	36759	L		45	SO	89073006	061300	003500	231 G E=77,C=47,B=28
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	3	36783	L		43	SO	89080301	015800	009500	351 G E=219,C=64,B=28
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	1	16055	L		41	SO	89080303	034400	006500	353 G E=240,C=125,B=43
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	3	36805	L		43	SO	89080701	012100	008500	341 G E=155,C=60,B=28
AGLMM	NGC 5548	84	13.5	1415435	+252159	L	1	16083	L		44	SO	89080702	025300	004300	342 G E=172,C=106,B=39
NPKRD	IC 4406	71	10.	141915	-434424	L	3	36237	L			BO	89051012	121500	012000	352 G E=189,C=70,B=35
NPKRD	IC 4406	71	10.	141915	-434424	L	1	15490	L			BO	89051014	142200	012000	335 G E=132,C=123,B=62
NPKRD	HE2- 111	71	11.0	142931	-603627	L	3	36236	L			BO	89051007	074800	006000	00 G B=18
NPKRD	HE2- 111	71	11.0	142931	-603626	L	1	15489	L			BO	89051008	085600	015000	304 G C=90,B=52
NOLSS	NOVA CEN	55		1432134	-572431	L	1	16271	L		70		89090212	123700	006000	308 G C=144,B=99
NOLSS	NOVA CEN	55		1432137	-572432	L	1	16275	L			BO	89090312	122300	007000	307 G C=139,B=89
COKTA	HD 128621	46	1.33	1435513	-603730	L	3	36808	L				89080712	120900	004000	201 G C=50,B=30
COKTA	HD 128621	46	1.33	1435513	-603730	L	3	36808	S				89080712	125500	001000	201 G C=50,B=30
COKTA	HD 128621	46	1.33	1435513	-603730	L	1	16087	L				89080713	134600	000600	??4 G E=25X,C=25X,B=58
IBLJS	HD 129333	44	7.52	1437562	+643024	L	1	15894	L	2228	FO	89071018	180500	000200		432 G E=97,C=150,B=36
IBLJS	HD 129333	44	7.52	1437562	+643024	L	1	15894	S	2223	FO	89071018	180500	000600		432 G E=83,C=134,B=32
IBLJS	HD 129333	44	7.52	1437562	+643024	L	3	36655	L	2233	FO	89071018	182000	003000		330 G E=63,C=44,B=20
IBLJS	HD 129333	65	7.5	1437568	+643025	H	1	15888	L	2335	FO	89070917	175300	001600		302 G C=85,B=39
HMLDL	HD 129174	27	4.94	1438224	+163753	L	3	36497	S	27004	FO	89061418	183400	000009		400 G C=155,B=18
HMLDL	HD 129174	27	4.94	1438224	+163753	L	1	15727	S	27021	FO	89061418	183900	000005		X02 G C=1.5X,B=34
SBLCW	HD 131873	47	2.1	1450496	+742135	L	1	16833	L	2850	FU	89112508	080800	000240		352 G E=210,C=117,B=33
SBLCW	HD 131873	47	2.1	1450496	+742135	L	1	16834	L	2834	FU	89112509	094500	000200		5X2 G E=2X,C=195,B=36
LCO40	HD131873	47	02.49	1450500	+742134	L	1	16205	L	02784	FU	89082516	162604	000015		341 V

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
LC040	HD131873	47	02.44	1450500	+742134	L	1	16206	L	02894	FU	89082517	170258	000115	561	V
SPLSS	SKY BKGD	99		1456437	-001717	L	3	36733	L			89072505	050800	002000	00	G B=18
SPLSS	SKY BKGD	99		1456437	-001717	L	3	36734	L			89072506	060200	009000	00	G B=17
SPLSS	PLUTO	03	13.7	1456437	-001717	L	1	15985	L	30	SO	89072507	070500	022500	309	G C=221,B=164
SPLSS	SKY BKGD	99		1456437	-001717	L	3	36735				89072507	075900	012000	02	G B=33
LS039	PLUTO	03	14.45	1456438	-001717	E	9	02217	2	00080	SO	89072419	195000	016000		V FOR LWP15985
LS039	PLUTO	03	14.45	1456438	-001717	L	3	36731	L	00080	SO	89072421	213821	012000	141	V
SPLSS	PLUTO	03	13.7	1456440	-001655	D	9	02216	2			89072404	043400	002000		G
SPLSS	PLUTO	03	13.7	1456440	-001655	L	1	15983	L	32	SO	89072404	044700	015000	303	G C=75,B=45
SPLSS	PLUTO	03	13.7	1456440	-001655	L	1	15984	L			89072408	081100	034000	308	G C=145,B=99
SPLSS	SKY BKGD	07	13.7	1456440	-001655	L	3	36727	L			89072411	115800	003000	40	G E=163,B=19
SPLSS	PLUTO	03	13.7	1456440	-001655	L	3	36728	L	34	SO	89072414	145800	003000	31	G E=86,B=21
SPLSS	SKY BKGD	07	13.7	1456440	-001655	L	3	36729	L			89072416	160400	006000	31	G E=117,B=21
SPLSS	PLUTO	03	13.7	1456440	-001655	L	3	36730	L	32	SO	89072417	174900	009000	41	G E=134,B=25
PHCAL	T-FLOOD	98	0.0	1459541	-843544	L	1	16041	S			89080111	113700	000025	?9	G E=10X,B=102
PHCAL	WAVCAL	98	0.0	1459541	-843544	L	1	16041	S			89080111	113900	000001	?9	G E=10X,B=102
PHCAL	T-FLOOD	98	0.0	1459541	-843544	H	1	16042	S			89080112	120800	000016	?9	G E=50X,B=105
PHCAL	WAVCAL	98	0.0	1459541	-843544	H	1	16042	S			89080112	121000	000016	?9	G E=50X,B=105
PHCAL	NULL	99	0.0	1459541	-843544	H	2	18321				89080112	124300	000000	00	G B=14
PHCAL	T-FLOOD	98	0.0	1459541	-843544	L	3	36777	S			89080113	130300	000005	?09	G C=20X,B=103
PHCAL	WAVCAL	98	0.0	1459541	-843544	L	3	36777	S			89080113	130500	000002	?09	G C=20X,B=103
PHCAL	T-FLOOD	98	0.0	1459541	-843544	H	3	36778	S			89080113	133900	000005	?9	G E=60X,B=124
PHCAL	WAVCAL	98	0.0	1459541	-843544	H	3	36778	S			89080113	134000	000200	?9	G E=60X,B=124
PHCAL	T-FLOOD	98	0.0	1459541	-843544	H	2	18322	S			89080114	142600	000010	?9	G E=60X,B=136
PHCAL	WAVCAL	98	0.0	1459541	-843544	H	2	18322	S			89080114	142800	000022	?9	G E=60X,B=136
PHCAL	T-FLOOD	98	0.0	1459541	-843544	L	2	18323	S			89080114	145200	000010	?7	G E=10X,B=82
PHCAL	WAVCAL	98	0.0	1459541	-843544	L	2	18323	S			89080114	145400	000001	?7	G E=10X,B=82
LC040	HD133208	45	03.95	1500037	+403513	L	1	16208	L	00758	FU	89082519	193502	000015	501	V
LQ037	MRK 841	84	15.00	1501362	+103755	L	3	36602	L	00017	SO	89070219	195409	012000	350	V
LQ037	MRK 841	84	15.00	1501362	+103755	L	1	15832	L	00017	SO	89070221	215948	004000	331	V
LQ037	MRK 841	84	15.00	1501362	+103755	L	3	36603	L	00017	SO	89070222	222814	007000	330	V
LQ037	MRK 841	84	15.00	1501363	+103756	L	3	36590	L	00018	SO	89063022	220230	006000	230	V
LQ037	MRK 841	84	15.00	1501363	+103756	L	1	15818	L	00018	SO	89063023	230938	003500	332	V
LQ037	MRK 841	84	15.00	1501363	+103756	L	3	36591	L	00018	SO	89063023	233702	012000	341	V
LQ037	MRK 841	84	15.00	1501363	+103756	L	3	36592	L	00018	SO	89070102	021229	011500	340	V
LQ037	MRK 841	84	15.00	1501363	+103756	L	3	36604	L	00017	SO	89070300	001504	012000	340	V
LE163	MK480	84	14.70	1504448	+424959	L	3	36726	L	00024	SO	89072320	204322	036500	302	V
IMLPF	HD 134481	22	3.90	1508267	-483256	H	1	16040	L	746	FU	89080109	094800	000120	503	G C=195,B=42
IMLPF	HD 134481	22	3.90	1508267	-483256	H	3	36776	L			89080110	101500	000300	502	G C=195,B=36
SALOW	HD 134687	21	4.8	1509274	-441847	L	3	36869	L	23750	FO	89082013	133600	000006	X00	G C=1.5X,B=18
SALOW	HD 134687	21	4.8	1509274	-441847	L	3	36869	L	23750	FO	89082013	133800	000006	400	G C=124,B=18
SALOW	HD 134687	21	4.8	1509274	-441847	L	1	16181	L	23601	FO	89082013	134600	000004	502	G C=227,B=36
SALOW	HD 135153	40	4.9	1511330	-312000	L	3	36866	L	21806	FO	89082007	073500	000430	302	G C=102,B=31
SALOW	HD 135153	40	4.9	1511330	-312000	L	3	36866	S	21709	FO	89082007	073500	001500	301	G C=94,B=30
SALOW	HD 135153	40	4.9	1511330	-312000	L	1	16178	L	20767	FO	89082007	074700	000155	502	G C=227,B=36
SALOW	HD 135153	40	4.9	1511330	-312000	L	3	36868	L	20037	FO	89082011	114200	001800	X02	G C=2X,B=34
RRLEB	AP SER	53	11.1	1511369	+100959	L	3	36757	L	459	SO	89072909	090900	009000	301	G C=105,B=28
OD61Y	HD 135345	45	5.1	1512459	-411825	H	1	15961	L	16166	FO	89071915	152800	002500	X05	G C=1.5X,B=65
SALOW	HD 135345	45	5.2	1512460	-411824	L	1	16180	L	16498	FO	89082010	102500	000032	402	G C=165,B=39
SALOW	HD 135345	45	5.2	1512460	-411824	L	1	16180	S	16493	FO	89082010	103400	000130	X02	G C=5X,B=36

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
PHCAL	HD 135591	13	5.5	1514461	-601851	H	3	36787	S	15674	FO	89080312	120300	001000	X04 G	C=2X,B=55
SALCW	HD 136664	21	4.5	1519572	-364050	L	3	36867	L	354	FU	89082009	090900	000005	500 G	C=250,B=19
SALCW	HD 136664	21	4.5	1519572	-364050	L	3	36867	L	354	FU	89082009	091100	000005	300 G	C=102,B=18
SALCW	HD 136664	21	4.5	1519572	-364050	L	1	16179	L	28175	FO	89082009	091800	000003	502 G	C=222,B=36
ISLJH	1520+525	17	15.5	1520200	+523245	L	3	37638	S			89112020	200000	008000	G	
PHCAL	HD 137389	36	5.9	1521410	+621328	9	02256					89111620	201800	000000	G	
PHCAL	HD 137389	36	5.9	1521410	+621328	L	3	37607	L	9785	FO	89111620	202500	000027	500 G	C=197,B=20
PHCAL	HD 137389	36	5.9	1521410	+621328		1	16795	L	9700	FO	89111620	203200	000000	502 G	C=197,B=32
PHCAL	HD 137389	36	5.9	1521410	+621328	9	02257					89111622	222000	000000	G	
PHCAL	HD 137389	36	5.9	1521410	+621328	L	3	37608	L	11772	FO	89111622	223200	000027	500 G	C=202,B=20
LI012	HD 137387	26	05.50	1526011	-731307	H	3	36649	L	15853	FO	89070922	225551	000400	600 V	
LI012	HD 137387	26	05.50	1526011	-731307	L	1	15890	L	15905	FO	89070923	230445	000004	800 V	
LI012	HD 137387	26	05.50	1526011	-731307	L	3	36650	L	15837	FO	89070923	234040	000003	600 V	
LM072	HD138629	31	05.38	1529595	+410405	H	3	36656	L	20310	FO	89071019	195845	004500	500 V	
OBLDB	HD 139094	22	7.2	1534063	-261942	L	3	36748	L	2817	FO	89072712	122200	000210	500 G	C=222,B=20
OBLDB	HD 139094	22	7.2	1534063	-261942	L	1	16001	L	2835	FO	89072712	122800	000035	502 G	C=215,B=35
OD61Y	HD 139521	45	4.67	1536347	-341500	H	1	15962	L	21281	FO	89071916	163800	002000	332 G	E=125,C=89,B=38
LS076	PONS-WINN	06	14.00	1546044	-254544	L	1	16361	L	00000	BO	89091416	163758	012000	233 V	
OBLDB	HD 141774	22	7.7	1548349	-202616	L	3	36839	L	2100	FO	89081409	092900	000300	500 G	C=200,B=18
OBLDB	HD 141774	22	7.7	1548349	-202616	L	1	16120	L	2101	FO	89081409	093600	000115	X02 G	C=1.5X,B=36
PHCAL	BD +33 2642	20	10.8	1550019	+330528	L	1	16084	L	134	FO	89080706	062800	000310	502 G	C=210,B=35
PHCAL	BD +33 2642	20	10.8	1550019	+330528	L	3	36806	L	131	FO	89080706	063600	000400	400 G	C=165,B=18
PHCAL	BD +33 2642	20	10.8	1550019	+330528	L	1	16098	L	130	FO	89081008	081100	000310	502 G	C=210,B=35
PHCAL	BD +33 2642	20	10.8	1550019	+330528	L	3	36817	L	128	FO	89081008	081900	000400	400 G	C=160,B=18
PHCAL	BD +33 2642	20	10.8	1550019	+330528	L	2	18326	L	130	FO	89081212	124800	000420	501 G	C=180,B=27
OBLDB	HD 142184	21	5.4	1550570	-234950	L	3	36741	L	15609	FO	89072611	114000	000005	500 G	C=210,B=18
OBLDB	HD 142184	21	5.4	1550570	-234950	L	1	15993	L	15850	FO	89072611	114500	000005	X01 G	C=2X,B=30
KA192	HD141969	20	10.92	1551154	-660037	L	3	36305	L	00174	FO	89052000	004105	000400	400 V	
KA192	HD141969	20	10.81	1551154	-660037	H	3	36306	L	00192	FO	89052001	012131	032500	402 V	
OBLDB	HD 142250	22	6.0	1551270	-271130	L	3	36742	L	8751	FO	89072614	140100	000014	500 G	C=200,B=18
OBLDB	HD 142250	22	6.0	1551270	-271130	L	1	15994	L	8616	FO	89072614	140600	000010	X02 G	C=2X,B=33
OBLDB	HD 142315	22	6.5	1551443	-223710	L	3	36837	L	4570	FO	89081406	064400	000050	500 G	C=210,B=18
OBLDB	HD 142315	22	6.5	1551443	-223710	L	1	16118	L	4536	FO	89081406	064900	000020	502 G	C=210,B=36
OBLDB	HD 142883	21	5.8	1554448	-205022	L	3	36751	L	10443	FO	89072717	172200	000011	X00 G	C=1.5X,B=18
OBLDB	HD 142883	21	5.8	1554448	-205022	L	1	16004	L	10407	FO	89072717	172800	000004	502 G	C=200,B=33
OBLDB	HD 142884	27	6.8	1554502	-232302	L	3	36743	L	4818	FO	89072615	152500	000040	500 G	C=240,B=18
OBLDB	HD 142884	27	6.8	1554502	-232302	L	1	15995	L	4848	FO	89072615	153100	000015	X02 G	C=1.5X,B=32
OBLDB	HD 142990	21	5.2	1555346	-244120	L	3	36744	L	14876	FO	89072616	165100	000005	500 G	C=220,B=18
OBLDB	HD 142990	21	5.2	1555346	-244120	L	1	15996	L	14872	FO	89072616	165600	000002	502 G	C=195,B=31
LI046	T CRB	57	10.40	1557239	+260338	L	3	36611	L	00279	FO	89070420	201512	006000	330 V	
KI146	T CRB	55	10.35	1557240	+260339	L	3	36312	L	00290	FO	89052102	025601	006000	330 V	
KI145	T CRB	55	10.34	1557240	+260339	L	1	15562	L	00292	FO	89052104	042832	002500	341 V	
KI145	T CRB	55	10.34	1557240	+260339	L	3	36313	L	00293	FO	89052105	050520	006000	340 V	THREE 20 MIN EXPOSUR
KI145	T CRB	55	10.28	1557240	+260339	L	1	15563	L	00308	FO	89052106	062623	002000	341 V	
LI046	T CRB	57	10.34	1557240	+260339	L	1	15848	L	00293	FO	89070421	212635	002000	331 V	
LI046	TCRB	57	10.56	1557240	+260339	L	3	36774	L	00241	FO	89080100	000444	010000	351 V	PREAD
LI046	TCRB	57	10.56	1557240	+260339	L	1	16038	L	00241	FO	89080101	014905	002100	331 V	PREAD
OBLDB	HD 143567	22	7.2	1558584	-215029	L	3	36745	L	3205	FO	89072618	180800	000200	500 G	C=250,B=19
OBLDB	HD 143567	22	7.2	1558584	-215029	L	1	15997	L	3215	FO	89072618	181400	000050	X02 G	C=1.5X,B=32
OBLDB	HD 143600	22	7.3	1559156	-223255	L	3	36841	L	2823	FO	89081412	124100	000235	500 G	C=241,B=18

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
OBLDB	HD 143600	22	7.3	1559156	-223255	L	1	16122	L	2812	FO	89081412	124800	000100	X02	G C=1.5X,B=36
LA020	AG DRA	57	10.28	1601230	+665625	H	3	37474	L	00309	FO	89102710	100143	016600	161	V
LA020	AG DRA	57	10.31	1601230	+665625	H	1	16674	L	00302	FO	89102715	153706	003000	121	V
LA020	AG DRA	57	10.25	1601230	+665625	L	3	37473	S	00318	FO	89102716	161513	001000	251	V
LA020	AG DRA	57	10.25	1601230	+665625	L	3	37473	L	00318	FO	89102716	163708	002500	360	V
LA020	AG DRA	57	10.27	1601230	+665625	L	1	16675	S	00312	FO	89102717	173542	001000	331	V
LA020	AG DRA	57	10.27	1601230	+665625	L	1	16675	L	00312	FO	89102717	171349	001000	341	V
LA020	AG DRA	57	10.16	1601230	+665625	H	3	37475	L	00343	FO	89102814	141228	006000	150	V
LA020	AG DRA	57	10.15	1601230	+665625	L	1	16683	L	00347	FO	89102815	152147	001000	340	V
PHCAL	HD 144217	20	2.9	1602314	-194012	H	3	36786	S	4176	FU	89080310	105600	000040	00	G B=19
PHCAL	HD 144217	20	2.9	1602314	-194012	H	3	36791	L		BO	89080316	162800	000020	X03	G C=1.5X,B=48
LA020	ANON	65	11.51	1603100	+665337	L	3	37472	S	00412	SO	89102713	142357	001000		V MISIDENTIFIED
LA020	ANON	65	11.51	1603100	+665337	L	3	37472	L	00412	SO	89102713	135657	001500	111	V MISIDENTIFIED
LBLSS	HE3-1138	26	10.3	1603107	-525540	L	3	36736	L	257	FO	89072511	115000	018000	05	G B=70
LBLSS	HE3-1138	26	10.3	1603107	-525540	L	1	15986	L	250	FO	89072515	152100	007000	305	G C=105,B=65
OBLDB	HD 144844	22	5.8	1605442	-233313	L	1	16109	L	11033	FO	89081306	065700	000007	502	G C=214,B=37
OBLDB	HD 144844	22	5.8	1605442	-233313	L	3	36828	L	10571	FO	89081307	070400	000018	500	G C=219,B=18
HMLDL	HD 145389	27	4.26	1607114	+450353	L	1	15726	L	434	FU	89061417	170700	000007	502	G C=215,B=38
HMLDL	HD 145389	27	4.26	1607114	+450353	L	3	36496	L	437	FU	89061417	171700	000013	501	G C=210,B=23
OBLDB	HD 145102	27	6.6	1607124	-264643	L	3	36829	L	5538	FO	89081308	081000	000100	500	G C=230,B=18
OBLDB	HD 145102	27	6.6	1607124	-264643	L	1	16110	L	5508	FO	89081308	081500	000020	502	G C=230,B=36
OBLDB	HD 145353	22	6.9	1608295	-270119	L	3	36842	L	3926	FO	89081414	140400	000140	500	G C=235,B=18
OBLDB	HD 145353	22	6.9	1608295	-270119	L	1	16123	L	3985	FO	89081414	141000	000032	502	G C=240,B=36
IMLPF	HD 145607	31	5.34	1609244	-082510	H	1	15777	L	13832	FO	89062318	180900	000500	403	G C=160,B=41
IMLPF	HD 145607	31	5.34	1609244	-082510	H	1	15778	L	13983	FO	89062319	191500	000500	403	G C=159,B=43
IMLPF	HD 145607	31	5.34	1609244	-082510	H	1	15782	L	14846	FO	89062417	172200	000550	403	G C=185,B=45
IMLPF	HD 145607	31	5.34	1609244	-082510	H	1	15783	L	13649	FO	89062418	183200	000550	403	G C=181,B=41
OBLDB	HD 145792	21	6.4	1610448	-241744	L	3	36749	L	6713	FO	89072714	142500	000020	X00	G C=1.5X,B=18
OBLDB	HD 145792	21	6.4	1610448	-241744	L	1	16002	L	6652	FO	89072714	143000	000007	502	G C=205,B=35
TIKAB	HD 145544	45	3.9	1610521	-633337	H	1	15588	L	548	FU	89052415	152300	001800	342	G E=150,C=96,B=35
IMLLH	HD 146010	30	6.8	1610580	+214132	H	3	36771	L	4912	FO	89073103	035700	006000	402	G C=140,B=38
IMLLH	HD 146010	30	6.8	1610580	+214132	H	3	36772	L	4977	FO	89073105	053300	025000	X06	G C=3X,B=73
IMLLH	HD 146010	30	6.8	1610580	+214132	H	3	36775	L	4917	FO	89080103	035800	030000	X06	G C=4X,B=73
IMLLH	HD 146010	30	6.8	1610580	+214132	H	3	37064	L		FO	89091723	235000	026500	X04	G C=3.5X,B=60
OBLDB	HD 146001	22	6.0	1611514	-252106	L	1	16003	L	8795	FO	89072715	155500	000008	502	G C=245,B=32
OBLDB	HD 146001	22	6.0	1611514	-252106	L	3	36750	L	8752	FO	89072716	160000	000020	X00	G C=1.5X,B=17
OBLDB	HD 146029	22	7.2	1611551	-221518	L	3	36752	L	2749	FO	89072718	182500	000014	500	G C=230,B=20
OBLDB	HD 146284	22	6.7	1613261	-240932	L	3	36830	L	5086	FO	89081309	092900	000120	500	G C=230,B=18
OBLDB	HD 146284	22	6.7	1613261	-240932	L	1	16111	L	5020	FO	89081309	093400	000030	X02	G C=1.5X,B=38
OBLDB	HD 146416	22	6.5	1614017	-211052	L	3	36831	L	6306	FO	89081311	112200	000045	500	G C=224,B=18
OBLDB	HD 146416	22	6.5	1614017	-211052	L	1	16112	L	5585	FO	89081311	112700	000018	502	G C=245,B=35
OBLDB	HD 146706	22	7.6	1615287	-230911	L	3	36840	L	2420	FO	89081410	105500	000240	500	G C=218,B=18
OBLDB	HD 146706	22	7.6	1615287	-230911	L	1	16121	L	2565	FO	89081411	110700	000105	X02	G C=1.5X,B=34
LC110	GL616.2	48	10.22	1615580	+552342	H	1	16723	L	00326	FO	89110213	130642	012000	040	V
LGLSD	HD 146836	41	5.5	1616228	-304708	L	3	36874	L	13363	FO	89082309	093400	004300	?30	G E=47,C=15X,B=20
LGLSD	HD 146836	41	5.5	1616228	-304708	H	1	16194	L	13158	FU	89082310	104500	002000	503	G C=200,B=48
LI045	X SER	55	15.00	1616413	-022218	L	1	15941	L	00000	BO	89071619	195004	012000	202	V
LI045	X SER	55	15.00	1616413	-022218	L	3	36684	L	00000	BO	89071621	215421	029300	201	V
RRLEB	RV CRB	53	11.4	1617269	+294959	L	3	36756	L	263	SO	89072906	063600	008000	01	G C-60,B=28
RRLEB	RV CRB	53	11.4	1617269	+294959	L	1	16012	L	231	SO	89072908	080300	003000	302	G C=111,B=37

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	EQC	Comment
OBLDB	HD 147890	27	7.6	1622311	-291713	L	3	36838	L	2255	FO	89081408	080700	000550	500	G C=216,B=18
OBLDB	HD 147890	27	7.6	1622311	-291713	L	1	16119	L	2193	FO	89081408	081700	000140	502	G C=224,B=35
OD64Y	WRA 1484	26	13.1	1623318	-483240	L	1	16446	L	56	SO	89092812	120000	017000	4X4	G E=1.5X,C=202,B=56
ISKJS	HD 148265	20	9.7	1623514	+261511	L	1	15633	L	361	FO	89053119	194300	000128	502	G C=225,B=32
ISKJS	HD 148265	20	9.7	1623514	+261511	L	3	36375	L	360	FO	89053119	194900	000200	400	G C=155,B=17
ISKJS	HD 148265	20	9.7	1623514	+261511	L	1	15634	L	368	FO	89053120	202500	000227	X01	G C=2X,B=29
ISKJS	HD 148265	20	9.7	1623514	+261511	L	3	36376	L	369	FO	89053120	205700	000600	X00	G C=2X,B=18
LGLMS	HR 6134	49	1.0	1626200	-261911	H	1	15853	L	8779	FU	89070513	134800	000217	443	G E=176,C=190,B=45
LGLMS	HR 6134	49	1.0	1626200	-261911	L	1	15854	L	8838	FU	89070514	142500	000002	XX2	G E=1.5X,C=1.5X,B=33
LGLMS	HR 6134	49	1.0	1626200	-261911	H	1	16032	L	8728	FU	89073111	114300	000250	553	G E=221,C=200,B=48
LGLMS	HR 6134	49	1.0	1626200	-261911	L	1	16033	L	8584	FU	89073112	125200	000002	552	G E=198,C=190,B=35
LGLMS	HR 6134	49	1.0	1626200	-261911	L	1	16232	L	9209	FU	89082808	085200	000002	502	G C=191,B=36
LGLMS	HR 6134	49	1.0	1626200	-261911	H	1	16233	L	9178	FU	89082809	092500	000200	X03	G C=1.5X,B=44
LGLMS	HR 6134	49	1.0	1626200	-261911	H	1	16234	L	9344	FU	89082810	100900	000210	543	G E=181,C=205,B=43
SRLPJ	HD 148783	49	4.4	1626590	+415930	H	1	15845	L	441	FU	89070415	155100	004000	34	G E=156,B=59
SRLPJ	HD 148783	49	4.4	1626590	+415930	L	1	15846	L	437	FU	89070417	171400	000400	2?2	G E= 160,C=50,B=33
SRLPJ	HD 148783	49	4.4	1626590	+415930	H	1	15939	L	442	FU	89071616	161100	005500	343	G E=150,C=88,B=43
SRLPJ	HD 148783	49	4.4	1626590	+415930	H	1	16015	L	432	FU	89072916	163200	005500	42	G E=142,B=40
SRLPJ	HD 148783	49	4.4	1626590	+415930	H	1	16102	L	442	FU	89081207	070300	005500	32	G E=136,B=40
SRLPJ	HD 148783	49	4.4	1626590	+415930	H	1	16170	L	446	FU	89081907	072800	007000	43	G E=164,B=50
SRLPJ	HD 148783	49	4.4	1626590	+415930	H	1	16269	L	469	FU	89090207	074900	005500	43	G E=168,B=47
SRLPJ	HD 148783	49	4.4	1626590	+415930	H	1	16312	L	461	FU	89090913	133900	007000	343	G E=175,C=64,B=41
SRLPJ	HD 148783	49	4.4	1626590	+415930	L	1	16365	L	447	FU	89091513	131000	000500	342	G E=180,C=56,B=35
SRLPJ	HD 148783	49	4.4	1626590	+415930	L	1	16366	L	432	FU	89091513	135100	001000	3X2	G E=1.5X,C=78,B=36
SRLPJ	HD 148783	49	4.4	1626590	+415930	H	1	16367	L	429	FU	89091514	143900	000500	352	G E=202,C=58,B=35
SRLPJ	HD 148783	49	4.4	1626590	+415930	L	1	16411	L	453	FU	89092311	110200	000500	352	G E=191,C=58,B=36
SRLPJ	HD 148783	49	4.4	1626590	+415930	L	1	16458	L	456	FU	89093014	143800	000500	247	G E=229,C=99,B=86
OBLDB	HD 148594	22	6.90	1627094	-274829	L	3	36832	L	4200	FO	89081312	124200	000040		G
OBLDB	HD 148594	22	6.90	1627094	-274829	L	1	16113	L	4200	FO	89081312	125700	000026		G 4209
HMLDL	HD 149121	27	5.63	1630079	+053733	L	3	36498	L	12757	FO	89061420	200800	000053	501	G C=212,B=28
HMLDL	HD 149121	27	5.63	1630079	+053733	L	1	15728	L	12628	FO	89061420	202000	000028	502	G C=223,B=38
PHCAL	HD 148937	13	6.9	1630096	-480023	L	3	36785	L	5057	FO	89080809	094100	000120	500	G C=190,B=18
PHCAL	HD 148937	13	6.9	1630096	-480023	L	3	36785	S	4869	FO	89080809	095100	000120		G C=195
PHCAL	HD 149438	20	2.8	1632459	-280651	H	3	36816	L	1860	FU	89081006	064100	000011	X03	G C=1.5X,B=48
PHCAL	HD 149438	20	2.8	1632459	-280651	H	1	16097	L	1868	FU	89081006	064700	000006	503	G C=205,B=46
PHCAL	HD 149438	20	2.8	1632459	-280651	H	2	18327	L	1832	FU	89081213	134000	000008	502	G C=196,B=31
LE168	Q1634+706	85	15.00	1634514	+703737	L	1	16565	L	00000	BO	89101513	135101	010000	461	V
LI064	R ARA	66	07.29	1635347	-565355	H	1	16342	L	04437	FO	89091218	181509	003200	501	V
OBLEG	HD 149730	66	6.1	1635347	-565355	H	3	36973	L	4087	FO	89091007	075500	004000	302	G C=127,B=35
LI064	R ARA	66	07.26	1635347	-565355	H	3	37005	L	04530	FO	89091218	185532	006000	500	V
OBLEG	HD 149730	66	6.1	1635347	-565355	H	1	16314	L	3809	FO	89091008	084400	002000	403	G C=150,B=43
LI064	R ARA	66	07.26	1635347	-565355	H	1	16343	L	04564	FO	89091220	200356	003000	500	V
OBLEG	HD 149730	66	6.1	1635347	-565355	H	3	36974	L	3680	FO	89091009	091700	006000	403	G C=164,B=50
OBLEG	HD 149730	66	6.1	1635347	-565355	H	1	16315	L	3345	FO	89091010	102500	004000	408	G C=233,B=96
OBLEG	HD 149730	66	6.1	1635347	-565355	H	3	36975	L	3198	FO	89091011	112100	005000	307	G C=176,B=84
OBLEG	HD 149730	66	6.1	1635347	-565355	H	1	16316	L	3242	FO	89091012	121900	003000	406	G C=190,B=72
OBLEG	HD 149730	66	6.1	1635347	-565355	H	3	36976	L	3318	FO	89091012	125800	006000	403	G C=168,B=46
OBLEG	HD 149730	66	6.1	1635347	-565355	H	1	16317	L	3545	FO	89091014	140800	003500	503	G C=200,B=47
LI064	R ARA	66	07.45	1635348	-565356	H	3	36977	L	03834	FO	89091014	145407	006000	400	V
OBLEG	HD 149730	66	6.1	1635348	-565356	H	3	36986	L	4805	FU	89091105	051800	005000	402	G C=162,B=38

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
LI064	R ARA	66	07.36	1635348	-565356	H	1	16318	L	04149	FO	89091016	160356	003200	501	V
CBLEG	HD 149730	66	6.1	1635348	-565356	H	1	16326	L	4817	FO	89091106	061600	003000	503	G C=205,B=46
LI064	R ARA	66	07.30	1635348	-565356	H	3	36978	L	04407	FO	89091016	164529	005500	500	V
CBLEG	HD 149730	66	6.1	1635348	-565356	H	3	36987	L	4879	FO	89091106	065600	000800		G
LI064	R ARA	66	07.22	1635348	-565356	H	1	16319	L	04707	FO	89091017	174939	003000	501	V
CBLEG	HD 149730	66	6.1	1635348	-565356	H	3	36988	L	4769	FO	89091107	073500	006000	403	G C=188,B=46
LI064	R ARA	66	07.23	1635348	-565356	H	1	16330	L	04657	FO	89091115	152215	003000	501	V
CBLEG	HD 149730	66	6.1	1635348	-565356	H	3	36999	L	5019	FO	89091204	040900	006000	503	G C=215,B=45
LI064	R ARA	66	07.22	1635348	-565356	H	3	36993	L	04726	FO	89091115	155929	005500	500	V
CBLEG	HD 149730	66	6.1	1635348	-565356	H	1	16336	L	5010	FO	89091205	052200	003000	503	G C=230,B=45
LI064	R ARA	66	07.27	1635348	-565356	H	3	37006	L	04525	FO	89091220	204236	005500	500	V
CBLEG	HD 149730	66	6.7	1635348	-565356	H	3	37002	L	4932	FO	89091211	112200	005000	504	G C=214,B=60
LI064	R ARA	66	07.20	1635348	-565356	H	3	37017	L	04802	FO	89091317	173607	005500	500	V
CBLEG	HD 149730	66	6.7	1635348	-565356	H	1	16339	L	4793	FO	89091212	122200	002500	504	G C=217,B=54
LI064	R ARA	66	07.17	1635348	-565356	H	1	16353	L	04942	FO	89091318	184028	003000	601	V
CBLEG	HD 149730	66	6.7	1635348	-565356	H	3	37013	L	4887	FO	89091310	102600	005000	404	G C=195,B=54
CBLEG	HD 149730	66	6.7	1635348	-565356	H	1	16349	L	4875	FO	89091311	112500	003000	505	G C=239,B=64
CBLEG	HD 149730	66	6.10	1635348	-565356	H	3	37020	L	5043	FO	89091400	000700	006000		G C=225,B=FO
CBLEG	HD 149730	66	6.10	1635348	-565356	H	1	16355	L	5010	FO	89091401	011600	003000	X03	G C=1.5X,B=48
CBLEG	HD 149730	66	6.1	1635348	-565356	H	3	37023	L	5232	FO	89091407	070300	006000	503	G C=240,B=46
CBLEG	HD 149730	66	6.1	1635348	-565356	H	1	16358	L	5173	FO	89091408	081200	003000	504	G C=250,B=51
CBLEG	HD 149730	66	6.1	1635348	-565356	H	3	37025	L	4998	FO	89091412	124300	005000	503	G C=210,B=41
CBLEG	HD 149730	66	6.1	1635348	-565356	H	1	16360	L	4932	FO	89091413	134200	003000	504	G C=250,B=51
SRLJE	HD 150450	49	4.9	1637232	+490131	L	1	15734	L	21879	FO	89061517	173100	000800	354	G E=237,C=130,B=51
OX62K	3C 345	85	16.0	164117	+395411	L	3	36175	L		BO	89050107	075800	018000	304	G C=88,B=51
OX62K	3C 345	85	16.0	164117	+395411	L	1	15424	L		BO	89050111	110700	022000	309	G C=180,B=153
TIKAB	HD 150798	47	1.9	1643211	-685620	H	1	15589	L	3157	FU	89052416	162700	002500	4X3	G E=3.5X,C=152,B=42
TIKAB	HD 150798	47	1.9	1643211	-685620	H	1	15590	L	3159	FU	89052417	172800	000500	353	G E=202,C=70,B=41
IBLJS	HD 151676	31	6.1	1646362	-153455	H	3	36629	L	7876	FO	89070703	032200	017600	X05	G C=2X,B=65
IBLJS	HD 151676	31	6.1	1646362	-153455	H	3	36630	L	8250	FO	89070707	071200	019200	405	G C=204,B=61
IBLJS	HD 151676	31	6.1	1646362	-153455	L	1	15864	L	8655	FO	89070710	105400	002500	403	G C=152,B=44
IBLJS	HD 151676	31	6.1	1646362	-153455	H	3	36631	L	9259	FO	89070711	112500	016200	X?5	G E=58,C=2X,B=70
IBLJS	HD 151676	31	6.1	1646362	-153455	L	3	36632	L	7018	FO	89070715	155300	003000	?31	G E=52,C=10X,B=22
IBLJS	HD 151676	31	6.1	1646362	-153455	H	1	15865	L	6626	FO	89070717	170200	003000	403	G C=165,B=50
IBLJS	HD 151676	31	6.1	1646362	-153455	L	3	36633	L	6957	FO	89070717	174100	003000	430	G E=55,C=160,B=19
IBLJS	HD 151676	31	6.1	1646362	-153455	H	1	15866	L	7079	FO	89070718	181700	003000	403	G C=182,B=41
IBLJS	HD 151676	31	6.1	1646362	-153455	L	3	36641	L	8606	FO	89070812	123700	004000	X41	G E=128,C=8XB=22
IBLJS	NULL	99		1646362	-153455	L	1	15875	L			89070812	124700	000000	02	G B=35
IBLJS	HD 151676	31	6.1	1646362	-153455	H	1	15876	L	7914	FO	89070814	145300	004000	405	G C=217,B=67
IBLJS	HD 151676	31	6.1	1646362	-153455	L	3	36642	L	4530	FO	89070816	160700	006000	X31	G E=114,C=7X,B=29
IBLJS	HD 151676	31	6.1	1646362	-153455	H	1	15877	L	5611	FO	89070817	173300	002700	403	G C=160,B=42
IBLJS	HD 151676	31	6.1	1646362	-153455	L	3	36643	L	6964	FO	89070818	180600	002000	400	G C=162,B=19
IBLJS	HD 151676	31	6.1	1646362	-153455	L	3	36645	L	8833	FO	89070912	123000	004000	X40	G E=122,C=9X,B=17
IBLJS	HD 151676	31	6.1	1646362	-153455	H	1	15886	L	8246	FO	89070913	132100	003000	424	G C=190,E=52,B=52
IBLJS	HD 151676	31	6.1	1646362	-153455	L	3	36646	L	7575	FO	89070914	143000	004000	X31	G E=85,C=7X,B=21
IBLJS	HD 151676	31	6.1	1646362	-153455	H	1	15887	L	6351	FO	89070915	155400	003000	404	G C=169,B=57
IBLJS	HD 151676	31	6.1	1646362	-153455	L	3	36647	L	6268	FO	89070916	163500	003000	X30	G E=54,C=5X,B=18
IBLJS	HD 151676	66	6.1	1646362	-153455	L	3	36654	L	6345	FO	89071015	150600	003000	X30	G E=68,C=5X,B=18
IBLJS	HD 151676	66	6.1	1646362	-153455	H	1	15893	L	4586	FO	89071015	155200	004500	404	G C=160,B=53
OD63Y	HD 152497	31	10.1	1651054	+022804	L	1	16215	L	349	FO	89082611	114400	003000	403	G C=159,B=42

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
OD63Y	HD 152497	31	10.1	1651054	+022804	L	3	36883	L	222	FO	89082612	121200	003700	302	G C=91,B=33
OD63Y	HD 152497	31	10.1	1651054	+022804	L	1	16216	L	242		89082613	130900	002000	503	G C=218,B=45
OD63Y	HD 152497	31	10.1	1651054	+022804	L	3	36884	L	243		89082613	134500	003500	301	G C=63,B=21
BEKTS	HD 152478	26	6.3	1652170	-503546	H	1	15459	L	7136	FO	89050518	185000	000600	503	G C=208,B=46
BEKTS	HD 152478	26	6.3	1652170	-503546	H	3	36197	L	7084	FO	89050519	193500	001400	503	G C=210,B=44
IMLTS	HD 153919	15	6.5	1700320	-374628	H	1	16289	L	6564	FO	89090609	091200	001400	503	G C=225,B=45
IMLTS	HD 153919	15	6.5	1700320	-374628	H	3	36946	L	7002	FO	89090609	094900	002100	402	G C=146,B=32
IMLTS	HD 153919	15	6.5	1700320	-374628	H	1	16290	L	6351	FO	89090611	112400	001400	503	G C=232,B=48
IMLTS	HD 153919	15	6.5	1700320	-374628	H	3	36947	L	7217	FO	89090611	115000	003000	553	G E=197,C=239,B=45
LM078	CPD-56 803	10	11.56	1704480	-565058	L	3	36663	L	00099	FO	89071120	200935	006000	401	V
LM078	CPD-56 803	10	11.50	1704480	-565058	H	1	15902	L	00418	SO	89071121	212157	032600	343	V
LGLSD	HD 155203	41	3.3	1708342	-431024	L	3	36875	L	896	FU	89082312	120500	001800	?31	G E=79,C=20X,B=22
LGLSD	HD 155203	41	3.3	1708342	-431024	H	1	16195	L	901	FU	89082312	124500	001500	X06	G C=3X,B=72
ZBLJE	HD 155341	49	6.1	1709595	-564950	L	1	16197	L	3799	FO	89082407	073200	000500	X02	G C=3X,B=38
ZBLJE	HD 155341	49	6.1	1709595	-564950	L	3	36879	L	3793	FO	89082407	074500	002000	300	G C=100,B=18
ALKGP	HD 155550	66	7.9	171029	-324742	H	3	36225	L	1692	FO	89050821	213200	007000	403	G C=184,B=43
ALKGP	HD 155550	66	7.9	171029	-324742	L	1	15482	L	1736	FO	89050823	234000	000030	502	G C=200,B=35
LI085	PG1711+336	66	13.20	1711056	+333445	L	1	16544	L	00000	BO	89101214	145344	002000	503	V
LI085	PG1711+336	66	13.65	1711056	+333445	L	3	37303	L	00061	SO	89101214	142727	002000	400	V
LI085	PG1711+336	66	13.69	1711056	+333445	L	3	37304	L	00059	SO	89101215	153654	002000	300	V
LI085	PG1711+336	66	13.20	1711056	+333445	L	1	16545	L	00060	SO	89101216	161505	002000	503	V
LI085	PG1711+336	66	13.67	1711056	+333445	L	3	37305	L	00060	SO	89101216	164842	003000	400	V
LI085	PG1711+336	66	13.20	1711056	+333445	L	1	16546	L	00059	SO	89101217	173428	002000	403	V
LI085	PG1711+336	66	13.81	1711056	+333445	L	3	37306	L	00053	SO	89101218	183101	003000	400	V
LI085	PG1711+336	66	13.83	1711056	+333445	L	3	37307	L	00052	SO	89101219	194444	003000	400	V
LI085	PG1711+336	66	13.20	1711056	+333445	L	1	16547	L	00000	BO	89101220	202046	002000	403	V
LI085	PG1711+336	66	13.20	1711056	+333445	L	3	37309	L	00000	BO	89101316	160552	006000	400	V 2X30 MIN EXPOSURES
LI085	PG1711+336	66	13.20	1711056	+333445	L	3	37310	L	00000	BO	89101317	175349	006000	400	V 2X30 MIN EXPOSURES
LI085	PG1711+336	66	13.20	1711056	+333445	L	3	37311	L	00000	BO	89101319	193523	006000	400	V 2X30 MIN EXPOSURES
LBLSS	HE3-1359	26	9.90	1711459	-401642	L	1	16079	L	348	FO	89080615	151600	009300	403	G C=170,B=49
LBLSS	HE3-1359	26	9.9	1711460	-401643	L	1	15988	L	345	FO	89072518	183800	001400	302	G C=63,B=35
LGLMS	HR 6406	49	3.5	1712220	+142650	H	1	15851	L	2109	FU	89070512	121000	001248	3X2	G E=1.5X,C=72,B=36
LGLMS	HR 6406	49	3.5	1712220	+142650	L	1	15852	L	2109	FU	89070512	125500	000020	342	G E=172,C=91,B=31
LGLMS	HR 6406	49	3.5	1712220	+142650	H	1	16034	L	1910	FU	89073114	141500	000800	353	G E=247,C=98,B=48
LGLMS	HR 6406	49	3.5	1712220	+142650	L	1	16035	L	2081	FU	89073114	145500	000100	XX2	G E=3X,C=1.5X,B=37
LGLMS	HR 6406	49	3.5	1712220	+142650	H	1	16230	L	1979	FU	89082807	072000	000700	342	G E=184,C=83,B=36
LGLMS	HR 6406	49	3.5	1712220	+142650	L	1	16231	L	2029	FU	89082808	080000	000035	552	G E=215,C=205,B=33
HCLSP	HD 156029	39	7.2	1713374	-392230	L	1	16378	L	2388	FO	89091812	122300	000030	202	G C=47,B=35
HCLSP	HD 156029	39	7.2	1713374	-392230	L	3	37068	L	2377	FO	89091812	122900	000018	00	G B=20
RGLWK	PKS 1718-649	86	14.0	1718460	-645746	L	3	37249	L		BO	89100421	214300	042800	306	G C=100,B=72
RGLWK	PKS 1718-649	86	14.0	1718470	-645746	L	3	36821	L		BO	89081022	225000	027000	203	G C=61,B=45
RGLWK	PKS 1718-649	86	14.0	1718470	-645746	L	3	37257	L		BO	89100522	221900	039000	305	G C=84,B=61
OD61Y	HD 156854	47	5.8	1718534	-562841	H	1	15963	L	9193	FO	89071917	175200	003000	332	G E=70,C=136,B=38
OGKEB	HD 156979	53	6.6	1719055	-453401	H	1	15438	L	3731	FO	89050208	080900	044000	X09	G C=1.5X,B=142
BCLEB	V636 SCO	53	6.8	1719055	-453401	H	1	15982	L	4051	FO	89072304	040500	055500	X09	G C=1.5X,B=109
BCLEB	V636 SCO	53	6.8	1719055	-453401	L	3	36723	L	4699	FO	89072313	132600	008500	402	G C=160,B=40
BCLEB	V636 SCO	53	6.8	1719055	-453401	H	1	16006	L	4539	FO	89072803	035300	051000	X09	G C=1.5X,B=152
GCLRR	NGC 6352	83	8.1	1721410	-482243	L	3	37243	L	145	SO	89100322	220300	030000	04	G B=60
GCLRR	NGC 6352	83	8.1	1721410	-482243	L	1	16473	L	141	SO	89100403	030800	010000	203	G C=60,B=50
GHLLD	BA0709-3	20	11.7	1724070	+815107	H	3	37203	L	236	SO	89092900	001400	041000	306	G C=152,B=72

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
LGLSD	HD 157919	41	4.3	1724096	-294918	L	3	36873	L	387	FU	89082307	072300	001530	230 G	E=45,C=20X,B=18
LGLSD	HD 157919	41	4.3	1724096	-294918	H	1	16193	L	386	FU	89082308	080100	001200	X03 G	C=1.5X,B=45
OD61Y	NGC 6369	71	10	1726179	-234311	L	1	15973	L	375	FO	89072115	155100	006000	333 G	E=111,C=92,B=44
LM072	HD 158643	22	05.21	1728220	-235527	H	3	36710	L	22551	FO	89072023	235819	001500	500 V	
LM072	HD 158643	22	05.20	1728220	-235527	H	1	15970	L	22657	FO	89072100	003921	000730	502 V	
LM072	HD 158643	22	05.17	1728220	-235527	H	3	36711	L	23143	FO	89072101	012905	001500	500 V	
LM072	HD 158643	22	05.23	1728220	-235527	H	1	15971	L	22265	FO	89072102	021349	000730	502 V	
CSLTA	HD 159181	45	3.0	1729180	+522014	L	3	37545	L	1521	FU	89111007	072800	003000	X33 G	E=136,C=2.5X,B=41
IDKJC	HD 159176	12	5.7	1731260	-323254	L	3	36262	L	11980	FO	89051420	201000	000012	550 G	E=188,C=202,B=19
IDKJC	HD 159176	12	5.7	1731260	-323254	L	1	15516	L	12398	FO	89051420	205700	000022	X03 G	C=3X,B=41
IDKJC	HD 159176	12	5.7	1731260	-323254	L	1	15516	S	12430	FO	89051421	210600	000006	X02 G	C=1.5X,B=32
IBLGP	HD 161741	66	7.7	1745269	-350228	H	3	37117	L	2310	FO	89092110	103100	005500	G	
IBLGP	HD 161741	66	7.7	1745269	-350228	H	3	37145	L			89092210	102900	005500	G	
ALKGP	HD 161741	66	7.7	174527	-350229	H	1	15447	L	2687	FO	89050321	215000	001500	303 G	C=132,B=41
ALKGP	HD 161741	66	7.7	174527	-350229	H	3	36189	L	2760	FO	89050322	221000	003900	402 G	C=143,B=34
BEKGP	HD 161741	66	7.7	174527	-350229	H	3	36221	L	2508	FO	89050817	171500	005500	404 G	C=198,B=52
BEKGP	HD 161741	66	7.7	174527	-350229	L	3	36222	L	2512	FO	89050818	184200	000038	500 G	C=190,B=18
ALKGP	HD 161741	66	7.7	174527	-350229	L	1	15481	L	2447	FO	89050818	184700	000024	502 G	C=220,B=35
ALKGP	HD 161741	66	8.7	174527	-350229	H	3	36231	L	2256	FO	89050917	172800	006000	405 G	C=206,B=68
ALKGP	HD 161741	66	7.7	174527	-350229	L	3	36232	L	1964	FO	89050918	185600	000045	500 G	C=179,B=16
NOLSS	NOVA SCO	55	11	1748337	-323117	L	3	36870	L	105	FO	89082206	064900	003000	00 G	B=17
NOLSS	NOVA SCO	55	11	1748337	-323117	L	1	16187	L	438	SO	89082207	073200	002500	32 G	E=68,B=38
LA023	HD 162732	26	07.18	1748447	+482424	L	3	37196	L	04893	FO	89092719	195832	000018	500 V	
LA023	HD162732	26	07.18	1748447	+482424	L	1	16442	L	04893	FO	89092720	200326	000013	501 V	
FKLJL	X 1751+704	46	9.6	1751027	+704619	L	1	15760	L	331	FO	89062006	062300	001500	332 G	E=131,C=70,B=34
FKLJL	X 1751+704	46	9.6	1751027	+704619	L	3	36559	L	328	FO	89062006	064800	045000	336 G	E=121,C=108,B=80
FKLCA	X 1751+705	46	9.7	1751028	+704617	L	1	15807	L	353	FO	89062805	055700	004500	3X2 G	E=1.5X,C=124,B=38
FKLCA	X 1751+705	46	9.7	1751028	+704617	L	3	36582	L	370	FO	89062806	065000	044000	235 G	E=100,C=85,B=68
FKLCA	X 1751+705	46	9.7	1751028	+704617	L	1	15803	L	395	FO	89062814	143100	003500	3X3 G	E=1.5X,C=120,B=45
FKLCA	X 1751+705	46	9.7	1751028	+704617	L	3	36583	L	330	FO	89062815	151700	004000	41 G	E=152,B=28
FKLCA	X 1751+705	46	9.7	1751028	+704617	L	1	15809	L	328	FO	89062816	160600	003000	3X3 G	E=1.5X,C=120,B=48
IMLTS	HD 162978	15	6.2	1751493	-245244	H	1	16283	L	8789	FO	89090607	075000	000600	503 G	C=221,B=45
IMLTS	HD 162978	15	6.2	1751493	-245244	H	3	36945	L	8979	FO	89090608	080500	000800	502 G	C=190,B=37
IMLTS	HD 162978	15	6.2	1751493	-245244	H	3	36948	L	8466	FO	89090613	131200	000900	543 G	E=175,C=226,B=42
IMLTS	HD 162978	15	6.2	1751493	-245244	H	1	16291	L	9468	FO	89090613	133100	000600	503 G	C=226,B=44
IMLTS	HD 162978	15	6.2	1751493	-245244	H	3	36949	L	8514	FO	89090614	141900	000900	542 G	E=166,C=213,B=38
NOLSS	V745 SCO	55	10.7	1752046	-331431	L	1	16056	S	123	FO	89080306	062400	002000	G	E=125,C=54
NOLSS	V745 SCO	55	10.7	1752046	-331431	L	1	16056	L	122	FO	89080306	065200	000400	G	E=125,C=54
NOLSS	V745 SCO	55	10.7	1752046	-331431	L	3	36784	L	121	FO	89080307	070400	006000	31 G	E=74,B=21
NOLSS	V745 SCO	55	10.7	1752046	-331431	L	1	16057	L	120	FO	89080308	081200	002000	3X2 G	E=2X,C=115,B=35
NOLSS	V745 SCO	55	10.7	1752046	-331431	L	1	16057	S	140	FO	89080308	084300	000800	G	E=72
NOLSS	V745 SCO	55	11.7	1752046	-331430	L	3	36797	L	326	SO	89080415	151800	009000	32 G	E=100,B=31
NOLSS	V745 SCO	55	12.0	1752046	-331431	L	1	16077	L	199	SO	89080609	090500	001000	352 G	E=193,C=59,B=35
NOLSS	V745 SCO	55	12.0	1752046	-331431	L	3	36802	L	198	SO	89080609	092200	021000	344 G	E=182,C=74,B=52
NOLSS	V745 SCO	55	13	1752046	-331431	2	3	36836	L	46	SO	89081322	225400	006000	04 G	B=60
NOLSS	V745 SCO	55	13*	1752046	-331431	L	1	16117	L	46	SO	89081400	000400	002000	33 G	E=128,B=42
LITOO	V745SCO	55	14.13	1752047	-331430	L	1	16176	L	00040	SO	89081917	170609	024000	396 V	B/O;PREAD
LITOO	V745SCO	55	14.13	1752049	-331430	L	1	16175	L	00040	SO	89081915	151758	006000	253 V	B/O
TIKAB	HD 163770	47	3.9	1754320	+371522	H	1	15597	L			89052520	201900	002500	502 G	C=207,C=80,B=32
GCLRR	NGC 6496	83	8.5	1755240	-441548	L	3	37237	L		BO	89100301	011300	021800	03 G	B=47

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
LC040	HD164058	47	02.62	1755266	+512938	L	1	16204	L	02477	FU	89082515	152036	000050	351	V
LC040	HD164058	47	02.58	1755266	+512938	L	1	16209	L	02553	FU	89082520	202853	000130	461	V
SNLRW	4 VESTA	05	6.0	1755464	-251442	H	1	16218	L	4292	FO	89082622	225000	012000	403	G C=150,B=48
SNLRW	4 VESTA	05	6.8	1756343	-251722	L	1	16229	L	4320	FO	89082806	062000	000220	402	G C=140,B=34
HELGP	HD 164284	26	4.6	1757470	+042210	H	3	37146	L	332	FU	89092212	120700	000210	502	G C=230,B=40
BEKGP	HD 164284	26	4.6	1757471	+042211	H	3	36188		294	FU	89050320	205900	000210	503	G C=224,B=41
BEKGP	HD 164284	26	4.6	1757471	+042211	L	3	36219	L	284	FU	89050815	154800	000001	500	G C=210,B=18
BEKGP	HD 164284	26	4.6	1757471	+042211	H	3	36220	L	284	FU	89050816	161900	000210	503	G C=218,B=41
BEKGP	HD 164284	26	4.6	1757471	+042211	L	1	15480	L	288	FU	89050816	162500	000001	502	G C=186,B=35
PRKCG	HD 164284	26	4.8	1757479	+042129	H	3	36327	L	310	FU	89052320	200200	000210	503	G C=203,B=41
PRKCG	HD 164284	26	4.8	1757479	+042130	L	1	15585	L	294	FU	89052320	203800	000001	402	G C=179,B=32
PRKCG	HD 164284	26	4.8	1757479	+042129	L	3	36328	L	290	FU	89052320	204400	000001	500	G C=230,B=15
LDKDB	HD 164259	40	4.6	1757504	-034119	L	1	15556	L	318	FU	89052016	165000	000020	502	G C=218,B=37
LDKDB	HD 164259	40	4.6	1757504	-034119	L	1	15556	S	278	FU	89052017	170500	000200	?02	G C=10X,B=33
IDKEB	NGC 6530	20	8.66	175935	-241452	L	1	15425	L	886	FO	89050115	154000	000040	502	G C=232,B=34
IDKEB	NGC 6530	20	8.66	175935	-241452	L	1	15426	L	881	FO	89050116	161500	000130	X02	G C=2X,B=36
IMLTS	HD 164794	12	6.0	1800480	-242200	H	3	36942	L	10905	FO	89090511	113400	000600	502	G C=216,B=40
IMLTS	HD 164794	12	6.0	1800480	-242200	H	1	16285	L	10587	FO	89090512	120900	000420	503	G C=216,B=45
IMLTS	HD 164794	12	6.0	1800480	-242200	H	3	36943	L	11003	FO	89090512	124900	000600	502	G C=202,B=36
IMLTS	HD 164794	12	6.0	1800480	-242200	H	1	16286	L	10965	FO	89090513	132900	000420	503	G C=222,B=44
IDKEB	HD 315033	20	8.9	1801190	-242629	L	1	15431	L	739	FO	89050121	213600	000140	X02	G C=2X,B=36
IDKEB	HD 315033	20	8.9	1801190	-242629	L	1	15432	L	725	FO	89050122	221400	000045	402	G C=168,B=35
IDKEB	W 76	20	9.6	180125	-241938	L	1	15427	L	401	FO	89050117	170400	000140	502	G C=223,B=35
IDKEB	W 76	20	9.6	180125	-241938	L	1	15428	L	405	FO	89050117	174900	000330	X02	G C=2X,B=35
IDKEB	W 76	20	9.6	180137	-242150	L	1	15429	L	739	FO	89050118	183600	000730	X04	G C=8X,B=55
GCLRR	NGC 6528	83	9.5	1801371	-300334	L	1	16467	L	265	SO	89100221	215200	015000	305	G C=94,B=62
IDKEB	HD 164947	20	8.9	1801376	-242150	L	3	36176	L	755	FO	89050119	190400	000830	X05	G C=5X,B=67
IDKEB	HD 164947	20	8.9	1801376	-242150	L	1	15430	L	761	FO	89050120	205000	000110	402	G C=158,B=38
IDKEB	HD 164947	20	8.9	1801376	-242150	L	3	36177	L	756	FO	89050120	205500	000130	400	G C=138,B=18
LQ100	3C368	86	20.00	1802455	+110112	L	1	16182	L	00000	BO	89082015	152236	037500	115	V
LS096	URANUS	03	06.38	1803289	-234240	L	3	37034	S	09643	FO	89091518	180317	027000	441	V LAP CLOSED AT 20:02:
SNLRW	URANUS	03	5.9	1803444	-234243	H	1	16227	L	10527	FO	89082722	224900	007000	X33	G E=119,C=1.5X,B=46
SNLRW	URANUS	03	5.9	1803444	-234243	H	1	16228	L	10008	FO	89082800	003700	021000	X07	G C=3X,B=81
SNLRW	URANUS	03	5.9	1803469	-234243	L	1	16219	L	10347	FO	89082702	020900	002500	?04	G C=37X,B=52
SNLRW	URANUS	03	5.9	1803469	-234243	L	1	16220	L	10424	FO	89082703	031200	006000	302	G C=100X,B=40
SNLRW	URANUS	03	5.9	1803506	-234243	L	3	36882	L	10046	FO	89082522	224400	029000	X02	G C=1.5X,B=40
SNLRW	URANUS	03	5.9	1803506	-234243	L	1	16211	L	10682	FO	89082605	054200	001000	?03	G C=15X,B=41
SNLRW	URANUS	03	5.9	1803564	-234242	L	1	16196	L	10813	FO	89082406	061700	000400	X02	G C=6X,B=38
SNLRW	URANUS	03	5.9	1804002	-234242	L	1	16192	L	11172	FO	89082306	061900	000130	X02	G C=2.5X,B=35
SNLRW	URANUS	03	5.6	1804083	-234242	L	1	16184	L	11097	FO	89082106	062600	000036	502	G C=198,B=33
LDKDB	HD 165908	41	5.0	1805075	+303313	L	1	15558	S	18615	FO	89052020	200800	000300	502	G C=197,B=38 SR1
LDKDB	HD 165908	41	5.0	1805075	+303313	L	1	15558	L	21244	FO	89052020	200800	000027	502	G C=197,B=38 SR1
SSLWM	URANUS	03	5.6	1805163	-234212	L	3	37300	L	9921	FO	89101122	220800	017200	452	G E=211,C=140,B=32
SSLWM	SKYBKGND	07	5.7	1805163	-234312	L	3	37301	L			89101201	013200	003000	30	G E=52,B=17
SSLWM	URANUS	03	5.6	1805163	-234212	L	3	37302	L			89101202	023200	013700	453	G E=209,C=154,B=41
CVLAH	V426 OPH	54	12.0	1805250	+055124	L	1	16453	L	228	SO	89093000	005800	002000		G B=3X
CVLAH	V426 OPH	54	12.0	1805250	+055124	L	3	37209	S	193	SO	89093001	012500	003000	309	G C=185,B=122
CVLAH	V426 OPH	54	12.0	1805250	+055124	L	3	37210	S	164	SO	89093002	022700	003000	309	G C=181,B=123
CVLAH	V426 OPH	54	12.0	1805250	+055124	L	3	37212	S	211	SO	89093006	062300	003000	308	G C=147,B=92
SULSS	OBERON	04	13.9	1805299	-234249	L	9	02249	2			89101321	214800	000020		G

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
SULSS	OBERON	04	13.9	1805299	-234249	L	1	16557	L		BO	89101322	223200	023000	304 G	C=97,B=60
SULSS	OBERON	04	13.9	1805299	-234249	L	1	16558	L		BO	89101402	025600	044000	309 G	C=161,B=117
SULSS	OBERON	04	13.9	1805299	-234249	L	9	02250	2			89101412	124900	016000	G	
SULSS	OBERON	04	13.9	1805319	-234246	L	1	16559	L	BO	SO	89101412	124200	078000	309 G	C=192,B=115
SULSS	OBERON	04	13.9	1805319	-234246	L	3	37312	L		BO	89101502	022600	014500	51 G	E=200,B=26
LS065	OBERON	04	13.90	1805357	-234245	E	9	02251	2	00000	BO	89101414	145200	004000	V	
OD62Y	PN K14	70	16	1809490	-292601	L	1	16432	L		BO	89092700	002600	009000	03 G	B=47
OD62Y	PN K14	70	16	1809490	-292601	L	3	37194	L		BO	89092702	020300	026600	02 G	B=39
LI052	AS 296	57	10.96	1812329	-001953	L	1	15949	L	00168	FO	89071800	000339	004000	302 V	PREAD
LI052	AS 296	57	10.90	1812329	-001953	L	3	36693	L	00178	FO	89071801	011817	006000	332 V	PREAD
LI052	AS296	57	10.25	1812329	-001953	L	1	16523	L	00317	FO	89100918	181701	003000	401 V	
LI052	AS296	57	10.19	1812329	-001953	L	3	37291	L	00335	FO	89100918	185429	003000	100 V	
HCLSP	HD 167516	39	8.5	1812580	+011953	L	1	16221	L	790	FO	89082707	071200	000600	402 G	C=160,B=34
HCLSP	HD 167516	39	8.5	1812580	+011953	L	3	36886	L	783	FO	89082707	072500	001800	00 G	B=17
OD61Y	CN 3-1	71	10	1815122	+100751	L	1	15974	L	142	FO	89072117	174600	006500	302 G	C=76,B=40
OX63K	HD 168076	12	8.24	1815459	-134918	L	3	36261	L	1203	FO	89051417	174400	000900	551 G	E=230,C=215,B=21
OX63K	HD 168076	12	8.24	1815459	-134918	L	1	15515	L	1528	FO	89051418	181700	001200	X03 G	C=3X,B=44
OX63K	HD 168076	12	8.24	1815459	-134918	L	1	15515	S	1293	FO	89051419	190400	000200	503 G	C=199,B=41
OX63K	HD 168075	12	8.77	1815459	-134851	L	3	36263	L	799	FO	89051422	221400	001200	441 G	E=146,C=163,B=21
IIKJC	HD 168075	12	8.77	1815459	-134851	L	1	15520	L	991	FO	89051515	154800	002400	G	
IIKJC	HD 168075	12	8.77	1815459	-134851	L	1	15520	S	894	FO	89051516	162000	000330	402 G	C=182,B=36
IIKJC	BD -13 4927	12	9.59	1815499	-134706	L	3	36269	L	496	FO	89051516	163800	001700	301 G	C=56,B=22
IIKJC	BD -13 4927	23	9.6	1815500	-134706	L	1	15521	S	440	FO	89051517	172100	000700	303 G	C=115,B=46
IIKJC	BD -13 4927	23	9.6	1815500	-134706	L	1	15521	L	485	FO	89051517	173500	003500	G	
IIKJC	BD -13 4927	12	9.6	1815500	-134706	L	1	15526	L	402	FO	89051615	154000	000800	452 G	E=204,C=177,B=34
IIKJC	BD -13 4927	12	9.6	1815500	-134706	L	1	15526	S	395	FO	89051615	155600	001500	402 G	C=177,B=34
IIKJC	BD -13 4927	12	9.6	1815500	-134706	L	3	36275	L	393	FO	89051616	161800	003000	331 G	E=95,C=115,B=23
IIKJC	BD -13 4927	12	9.6	1815500	-134706	L	3	36334	L	429	FO	89052412	122300	004500	401 G	C=149,B=26
LA033	HD168339	47	04.72	1818372	-613110	L	1	15921	L	00381	FU	89071502	023545	000100	300 V	
LC040	HD168723	47	03.72	1818429	-025447	L	1	16207	L	00928	FU	89082518	182058	000020	561 V	
GCLRR	NGC 6624	83	8.0	1820278	-302315	L	3	36815	L		BO	89080922	225500	026000	302 G	C=84,B=34
OD63Y	X 1821+643	85	14.3	182141	+641900	L	3	36396	L	26	SO	89060405	053800	030000	4X5 G	E=2X,C=211,B=61
OD63Y	X 1821+643	85	14.3	182141	+641900	L	1	15659	L	28	SO	89060410	105000	012000	544 G	E=158,C=215,B=58
LC145	HD169689	45	06.18	1823144	+080009	H	3	37191	L	11392	FO	89092615	155512	018000	703 V	
LC145	HD 169689	45	06.23	1823144	+080009	H	3	37195	L	10985	FO	89092715	155026	019000	701 V	
LC145	HD169689	45	06.32	1823144	+080009	H	3	37200	L	10135	FO	89092815	154621	019400	701 V	
OD58Y	HR6902	39	5.7	1823146	+080013	H	3	36589	L	11102	FO	89063018	182000	014000	504 G	C=230,B=53
HCLSP	HD 169985	39	5.2	1824389	+000953	L	1	16222	L	16676	FO	89082708	085500	000018	502 G	C=218,B=34
HCLSP	HD 169985	39	5.2	1824389	+000953	L	3	36887	L	16699	FO	89082709	090000	000036	400 G	C=160,B=18
BEKTS	HD 170235	26	6.6	1826169	-251725	H	3	36202	L	5739	FO	89050616	164500	001800	502 G	C=205,B=39
BEKTS	HD 170235	26	6.6	1826169	-251725	H	1	15465	L	5798	FO	89050617	172500	000900	503 G	C=208,B=47
GCLRR	NGC 6637	83	7.56	1828074	-322302	L	3	36810	L	446	SO	89080823	231300	025000	302 G	C=62,B=36
LS096	SATURN	03	00.40	1829011	-224742	L	3	37033	L	00000	BO	89091516	160855	006000	751 V	GDE=TITAN
SSLDS	SATURN	03	0.4	1829183	-224722	L	3	36972	L			89091005	054700	005500	X51 G	E=178,C=5X,B=21
SSLDS	SATURN	03	0.4	1829183	-224722	L	3	36972	L			89091005	054700	005500	X51 G	E=178,C=5X,B=21
SSLDS	SATURN	03	0.4	1829184	-224721	L	3	36969	L			89091000	004800	003500	X40 G	E=120,C=3X,B=20
SSLDS	SATURN	03	0.4	1829184	-224721	L	3	36969	L			89091000	004900	003500	X40 G	E=120,C=3X,B=20
SSLDS	SATURN	03	0.4	1829184	-224721	L	3	36970	L			89091002	021000	004500	X41 G	E=136,C=4X,B=24
SSLDS	SATURN	03	0.4	1829184	-224721	L	3	36970	L			89091002	021100	004500	X41 G	E=136,C=4X,B=24
LS096	SATURN	03	00.40	1829197	-224737	L	3	37026	L	00000	BO	89091419	192729	006000	600 V	SATURATED LONG WLTH

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
IMLDM	HR 6953	22	5.65	1829561	-384552	H	1	16517	L	1277	FO	89100909	091200	000600	503 G	C=207,B=46
IMLDM	HR 6953	22	5.65	1829561	-384552	H	1	16518	L			89100909	095500	000600	G	
IMLDM	HR 6953	22	5.65	1829561	-384552	H	1	16519	L	12651	FO	89100910	103800	000600	503 G	C=211,B=46
IMLDM	HR 6952	32	6.32	1829561	-384528	H	1	16520	L			89100911	112800	002200	G	
IMLDM	HR 6952	32	6.32	1829561	-384528	H	1	16521	L	7117	FO	89100912	123000	001600	503 G	C=210,B=45
IMLDM	HR 6952	32	6.3	1829561	-384528	H	1	16539	L	7443	FO	89101208	083900	001600	503 G	C=206,B=50
IMLDM	HR 6952	32	6.3	1829561	-384528	H	1	16540	L		FO	89101209	093300	001600	503 G	C=207,B=50
ODSSY	M22-PN	70	17.0	1833200	-235749	L	3	37287	L			89100822	223600	004000	G	
ODSSY	M 22-PN	70	17.0	1833202	-235749	L	3	37288	L			89100823	234200	030800	G	
ODSSY	SKYBKGND	07	*	1833228	-235644	L	1	16512				89100900	003900	001000	G	
ODSSY	SKYBKGND	07	*	1833228	-235644	L	1	16513				89100901	013800	017000	G	
SSLWM	SATURN	03	0.5*	1833271	-224810	L	3	37318	L			89101521	214000	012000	?01 G	C=10X,B=27
SSLWM	SATURN	03	0.5*	1833271	-224810	L	3	37319	L			89101600	000900	012000	?02 G	C=10X,B=32
SSLWM	SATURN	03	0.5*	1833271	-224810	L	3	37320	L			89101602	024500	009000	X01 G	C=8X,B=30
SSLWM	SATURN	03	0.2	1833271	-224810	L	3	37322	L			89101606	065100	009000	X01 G	C=8X,B=22
SSLWM	SATURN	03	0.2	1833271	-224810	L	3	37323	L			89101608	085700	006000	X01 G	C=6X,B=22
SSLWM	SATURN	03	0.2	1833271	-224810	L	3	37324	L			89101610	103200	009000	X01 G	C=8X,B=21
HCLSP	HD 172594	41	6.4	1838516	-143647	L	1	16223	L	5911	FO	89082710	102600	000600	502 G	C=220,B=35
HCLSP	HD 172594	41	6.4	1838516	-143647	L	3	36888	L	5978	FO	89082710	103800	001200	00 G	B=18
LCTOO	HD 172748	53	05.22	1839321	-090607	L	3	37406	L	22432	FO	89102016	162115	000200	502 V	UNUSUALLY HIGH FPM:
LCTOO	HD 172748	53	05.16	1839321	-090607	L	1	16581	L	23231	FO	89102016	165220	000030	603 V	FPM=2.50 V
LCTOO	HD 172748	53	05.09	1839321	-090607	L	3	37407	L	24238	FO	89102017	173026	000140	501 V	FPM=2.4 V
LCTOO	HD172748	53	05.08	1839321	-090607	L	1	16582	L	24404	FO	89102018	180745	000020	602 V	FPM = 2.20 V
LCTOO	HD172748	53	05.11	1839321	-090607	L	3	37408	L	23911	FO	89102018	183602	000140	500 V	FPM = 2.04
LCTOO	HD172748	53	05.17	1839321	-090607	L	1	16583	L	23127	FO	89102019	191344	000010	501 V	FPM = 2.02
LCTOO	HD172748	53	05.21	1839321	-090607	L	3	37409	L	22555	FO	89102019	194515	000140	400 V	FPM = 1.98
LCTOO	HD172748	53	05.24	1839321	-090607	L	1	16584	L	22218	FO	89102020	201940	000010	501 V	FPM = 1.98 V AND PRE
LCTOO	HD172748	53	05.03	1839321	-090607	L	3	37421	L	25038	FO	89102117	174247	000140	500 V	FPM=0.90 V
LCTOO	HD172748	53	05.04	1839321	-090607	L	1	16595	L	24828	FO	89102117	174901	000010	501 V	FPM=0.84
LCTOO	HD172478	53	05.17	1839321	-090607	L	3	37422	L	23104	FO	89102118	185430	000140	400 V	FPM=0.96
LCTOO	HD172748	53	05.18	1839321	-090607	L	1	16596	L	23024	FO	89102119	190058	000010	501 V	FPM = 0.90 V
LCTOO	HD172748	53	05.21	1839321	-090607	L	1	16597	L	22557	FO	89102120	201014	000010	500 V	
LCTOO	HD172478	53	05.21	1839321	-090607	L	3	37423	L	22455	FO	89102120	200330	000140	400 V	FPM=0.78
LCTOO	HD172478	53	05.17	1839321	-090607	L	1	16598	L	23092	FO	89102120	204435	000010	500 V	FPM=0.94
SNLSS	NEPTUNE	04	8.0	1839581	-221221	L	1	16200	L	1528	FO	89082506	061200	000400	502 G	C=233,B=37
SNLSS	TRITON	04	13.5	1839595	-221232	L	1	16199	L		BO	89082500	005300	015500	304 G	C=90,B=52
LS038	TRITON	04	13.60	1840011	-221228	E	9	02237	2	00000	BO	89082418	185700	016000	V	TRITON IN LWLA
SNLRW	NEPTUNE	03	7.7	1840049	-221218	L	3	36878	L	1886	FO	89082316	160400	062200	309 G	C=190,B=101
LS027	NEPTUNE	03	08.50	1840050	-221220	E	9	02234	2	01520	FO	89082315	150000	004000	V	FOR SWP36878
LS027	NEPTUNE	03	08.49	1840087	-221214	E	9	02233	2	01523	FO	89082016	160000	004000	V	FOR LWP16191
SNLRW	NEPTUNE	03	7.7	1840087	-221214	H	1	16191	L	1694	FO	89082216	161000	057000	X09 G	C=2X,B=122
SNLRW	NEPTUNE	03	7.7	1840116	-221208	D	9	02231	2			89082022	221100	016000	G	
SNLRW	NEPTUNE	03	7.7	1840116	-221208	H	1	16183	L	1514	FO	89082022	223100	025000	506 G	C=232,B=72
JC054	VESTA	05	07.05	1840142	-181237	L	3	36174	L	05460	FO	89050104	041918	012500	042 V	
SNLRW	NEPTUNE	03	7.7	1840229	-221155	L	1	16177	L	1507	FO	89081922	223600	023500	?09 G	C=65X,B=146
LS027	NEPTUNE	03	08.50	1840253	-221149	E	9	02230	2	01500	FO	89081814	144000	004000	V	FES IMAGE FOR NEPTUN
LS027	NEPTUNE	03	08.53	1840253	-221149	L	1	16157	L	01476	FO	89081814	145221	000400	601 V	FES IMAGE FOR NEPTUN
LS027	NEPTUNE	03	08.53	1840253	-221149	L	1	16158	L	01480	FO	89081815	154500	001400	701 V	FES IMAGE FOR NEPTUN
LS027	NEPTUNE	03	08.48	1840253	-221149	L	1	16159	L	01544	FO	89081816	165615	000400	601 V	
LS027	NEPTUNE	03	08.47	1840253	-221149	L	1	16160	L	01558	FO	89081817	175100	001400	701 V	DOUBLE EXPOSURE RP1:

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
LS027	NEPTUNE	03	08.49	1840253	-221149	L	1	16161	L	01524	FO	89081818	185226	000400	601	V
LS027	NEPTUNE	03	08.52	1840253	-221149	L	1	16162	L	01483	FO	89081819	193727	001400	701	V DOUBLE EXPOSURE RP1:
LS027	NEPTUNE	03	08.51	1840253	-221149	L	1	16163	L	01494	FO	89081820	203937	000400	601	V
LS027	NEPTUNE	03	08.49	1840253	-221149	L	1	16164	L	01531	FO	89081821	212448	001400	601	V DOUBLE EXPOSURE OFFS
SNLRW	NEPTUNE	03	7.7	1840256	-221149	L	1	16165	L	1975	FO	89081822	222300	000400	502	G C=230,B=38
SNLRW	NEPTUNE	03	7.7	1840256	-221149	L	1	16166	L	1943	FO	89081823	231500	001400	52	G E=238,B=39
SNLRW	NEPTUNE	03	7.7	1840256	-221149	L	1	16167	L	1574	FO	89081900	001800	000400	502	G C=228,B=35
SNLRW	NEPTUNE	03	7.7	1840256	-221149	L	1	16168	L	1559	FO	89081901	010600	001400	02	G C-230,B=38
SNLRW	NEPTUNE	03	7.7	1840256	-221149	L	1	16169	L	1556	FO	89081902	021000	001400	52	G E=240,B=38
SNLRW	NEPTUNE	03	7.7	1840289	-221143	L	1	16149	L	1502	FO	89081800	000000	002300	X03	G C=6.5X,B=45
SNLRW	NEPTUNE	03	7.7	1840289	-221143	L	1	16150	L	1461	FO	89081801	010200	011500	?07	G C=32X,B=89
SNLRW	NEPTUNE	03	7.7	1840289	-221143	L	1	16151	L	1656	FO	89081807	070900	000400	502	G C=211,B=37
SNLRW	NEPTUNE	03	7.7	1840289	-221143	L	1	16152	L	1968	FO	89081807	075400	001400	503	G C=235,B=46
SNLRW	NEPTUNE	03	7.7	1840289	-221143	L	1	16153	L	1623	FO	89081809	090500	000400	502	G C=227,B=36
SNLRW	NEPTUNE	03	7.7	1840289	-221143	L	1	16154	L	1961	FO	89081809	095400	001400	504	G C=238,B=53
SNLRW	NEPTUNE	03	7.7	1840289	-221143	L	1	16155	L	1561	FO	89081811	111300	000400	502	G C=235,B=38
SNLRW	NEPTUNE	03	7.7	1840289	-221143	L	1	16156	L	1940	FO	89081813	133100	001400	X04	G C=3X,B=60
JC054	VESTA	05	07.07	1840489	-181239	H	1	15423	L	05356	FO	89050100	003109	020000	502	V
SNLSS	TRITON	04	13.5	1843000	-220915	L	1	16186	L		BO	89082113	132800	077500	?09	G C=25X,B=151
SNLSS	TRITON	04	13.5	1843000	-220915	L	1	16198	L		BO	89082412	120500	072000	X09	G C=1.5X,B=188
SNLSS	TRITON	04	13.5	1843000	-220915	L	9	02236	0			89082414	140600	016000		G
SNLSS	TRITON	04	13.5	1843000	-220915	L	9	02236	0			89082414	140600	016000		G
SNLSS	NEPTUNE	03	7.9	1843100	-220903	L	9	02235	D			89082411	110600	016000		G
SNLSS	NEPTUNE	03	7.9	1843100	-220903	L	9	02235	D			89082411	110600	016000		G
ISKJS	HD 174237	20	5.9	1845360	+525556	L	3	36290	L	11418	FO	89051815	154600	000003	400	G C=160,B=17
ISKJS	HD 174237	20	5.9	1845360	+525556	L	1	15536	L	11309	FO	89051815	155000	000002	402	G C=146,B=32
ISKJS	HD 174237	20	5.9	1845360	+525556	L	3	36291	L	11298	FO	89051816	164600	000008	X00	G C=1.5X,B=17
ISKJS	HD 174237	20	5.9	1845360	+525556	L	1	15537	L	11366	FO	89051816	165000	000006	X02	G C=1.7X,B=32
LQ115	3C390.3	86	14.40	1845375	+794306	L	3	36843	L	00000	BO	89081417	172115	026000	341	V PREAD
LQ115	3C390.3	86	14.40	1845375	+794306	L	3	37582	L	00000	BO	89111311	115405	041500	352	V
LQ115	3C3903	86	14.40	1845376	+794306	L	1	16776	L	00000	BO	89111116	160921	016100	333	V PREAD
LQ115	3C390-3	86	15.00	1845378	+794305	L	1	16018	L	00000	BO	89072922	225038	024000	343	V PREAD
KQ085	3C390.3	86	14.40	1845379	+794306	L	3	36226	L	00000	BO	89050901	012800	032000	252	V
LI172	V 603AQL	55	12.28	1846214	+003136	L	3	36462	L	00207	SO	89061104	040245	003000	551	V (15+15)MIN, MODIF. R
LI172	V 603AQL	55	12.28	1846214	+003136	L	3	36455	L	00207	SO	89061122	223203	002400	551	V (12+12)MIN REF. PNTS
LI172	V 603AQL	55	12.28	1846214	+003136	L	3	36456	L	00207	SO	89061123	233430	001500	551	V
LI172	V 603 AQL	55	12.31	1846214	+003136	L	3	36457	L	00202	SO	89061200	001824	001500	551	V
LI172	V 603AQL	55	12.25	1846214	+003136	L	3	36458	L	00214	SO	89061201	010252	001500	551	V
LI172	V 603AQL	55	12.25	1846214	+003136	L	3	36459	L	00214	SO	89061201	014515	001500	551	V
LI172	V 603AQL	55	12.21	1846214	+003136	L	3	36460	L	00221	SO	89061202	022838	001500	551	V
LI172	V 603AQL	55	12.25	1846214	+003136	L	3	36461	L	00213	SO	89061203	031343	001500	551	V
LI172	V 603 AQL	55	12.16	1846214	+003135	L	3	36468	L	00232	SO	89061221	215012	003000	551	V
LI172	V 603 AQL	55	12.05	1846214	+003135	L	3	36469	L	00254	SO	89061222	225759	001200	551	V
LI172	V 603 AQL	55	12.05	1846214	+003135	L	3	36470	L	00255	SO	89061223	234253	002400	551	V (12+12)MIN REF.PNTS
LI172	V 603 AQL	55	12.16	1846214	+003135	L	3	36471	L	00232	SO	89061301	010906	001500	551	V
LI172	V 603 AQL	55	12.02	1846214	+003135	L	1	15716	L	00261	SO	89061301	015433	001700	701	V
LI172	V 603 AQL	55	11.99	1846214	+003135	L	3	36472	L	00270	SO	89061302	022732	001200	441	V
LI172	V 603 AQL	55	11.74	1846214	+003135	L	3	36474	L	00337	SO	89061304	043802	001200	441	V PREAD
LI072	V 603 AQL	55	12.05	1846215	+003136	L	3	36473	L	00255	SO	89061203	031625	001500	551	V
LI172	V603AQL	55	12.25	1846215	+003136	L	3	37175	L	00214	SO	89092416	161810	001200	450	V PHASE MID-EXP=0.10

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	EOC	Comment
LI172	V603AQL	55	12.29	1846215	+003136	L	3	37176	L	00205	SO	89092416	165927	001400	450	V 0.72
LI172	V603AQL	55	12.33	1846215	+003136	L	3	37177	L	00198	SO	89092417	174511	001400	450	V 0.43
LI172	V603 AQL	55	12.33	1846215	+003136	L	3	37178	L	00198	SO	89092418	183046	001400	450	V 0.28
LI172	V603 AQL	55	12.27	1846215	+003136	L	3	37179	L	00210	SO	89092419	191521	001400	450	V 0.00
LI172	V603AQL	55	12.34	1846215	+003136	L	3	37180	L	00197	SO	89092420	200701	001400	450	V 0.85
LI172	V603AQL	55	12.38	1846215	+003136	L	3	37181	L	00190	SO	89092420	205145	001400	450	V 0.58
LI172	V603AQL	55	12.21	1846215	+003136	L	3	37182	L	00221	SO	89092421	213605	001400	450	V 0.30
LI172	V603AQL	55	12.19	1846215	+003136	L	3	37183	L	00225	SO	89092422	222900	001400	450	V 0.16
HMLDL	HD 174933	27	5.5	1850081	+212148	L	1	15715	L	15787	FO	89061220	201900	000015	502	G C=220,B=35
HMLDL	HD 174933	27	5.5	1850081	+212148	L	3	36467	L	15410	FO	89061220	202800	000027	500	G C=215,B=17
HMLDL	HD 174933	27	5.5	1850082	+212149	L	3	37313	L	14123	FO	89101505	054500	000026	501	G C=195,B=26
HMLDL	HD 174933	27	5.5	1850082	+212149	L	1	16560	L	14636	FO	89101506	062100	000014	502	G C=205,B=38
IMLDM	HR 7141	31	4.6	1853440	+040813	H	1	16514	L			89100906	061200	001000		G
IMLDM	HR 7141	31	4.6	1853440	+040813	H	1	16515	L	25155	FO	89100906	065900	000700	503	G C=208,B=45
IMLDM	HR 7141	31	4.6	1853440	+040813	H	1	16516	L			89100907	074500	000700		G
IMLDM	HR 7141	31	4.6	1853440	+040813	H	1	16549	L	24388	FO	89101305	053400	000700	503	G C=210,B=41
IMLDM	HR 7141	31	4.6	1853440	+040813	H	1	16550	L	24814	FO	89101306	061800	000700	503	G C=220,B=41
IMLDM	HR 7142	31	5.0	1853454	+040808	H	1	16541	L	19214	FO	89101210	104600	001000	503	G C=216,B=41
IMLDM	HR 7142	31	5.0	1853454	+040808	H	1	16542	L	18924	FO	89101211	113400	000930	503	G C=208,B=41
IMLDM	HR 7142	31	5.0	1853454	+040808	H	1	16543	L	19151	FO	89101212	121900	000930	503	G C=213,B=41
IMLDM	HR 7142	31	5.0	1853454	+040808	H	1	16551	L	19453	FO	89101307	070200	000930	503	G C=200,B=41
SRLPJ	HD 175865	49	4.0	1853487	+435246	H	1	15847	L	767	FU	89070418	182500	002000	352	G E=194,C=64,B=33
SRLPJ	HD 175865	49	4.0	1853487	+435246	H	1	15940	L	711	FU	89071618	180300	002000	352	G E=186,C=70,B=32
SRLPJ	HD 175865	49	4.0	1853487	+435246	L	1	16016	L	697	FU	89072918	184500	000200	52	G E=247,B=32
SRLPJ	HD 175865	49	4.0	1853487	+435246	H	1	16017	L	691	FU	89072919	193700	002000	42	G E=178,B=35
SRLPJ	HD 175865	49	4.0	1853487	+435246	H	1	16070	L	733	FU	89080515	152100	002000	343	G E=180,C=80,B=41
SRLPJ	HD 175865	49	4.0	1853487	+435246	L	1	16071	L	700	FU	89080516	161600	000200	3X2	G E=1.5X,C=61,B=31
SRLPJ	HD 175865	49	4.0	1853487	+435246	H	1	16103	L	788	FU	89081209	090300	002000	42	G E=183,B=39
SRLPJ	HD 175865	49	4.0	1853487	+435246	H	1	16212	L	818	FU	89082607	072800	002000	52	G E=210,B=38
SRLPJ	HD 175865	49	4.0	1853487	+435246	H	1	16409	L	622	FU	89092307	075900	002000	52	G E=189,B=34
SRLPJ	HD 175865	49	4.0	1853487	+435246	L	1	16457	L	697	FU	89093013	133100	000200	353	G E=226,C=71,B=46
IDKJC	HD 175876	12	6.9	1855130	-202930	L	3	36270	L	4432	FO	89051519	192100	000023	550	G E=186,C=210,B=18
IDKJC	HD 175876	12	6.9	1855130	-202930	L	1	15522	L	4399	FO	89051519	194000	002900	X02	G C=3X,B=40 SR1
IDKJC	HD 175876	12	6.9	1855130	-202930	L	1	15522	S	4420	FO	89051519	194700	001200	X02	G C=3X,B=40 SR1
SPKJC	SATURN	03	0.3	185538	-220917	L	3	36286	L			89051808	081100	006000	X01	G C=5X,B=27
SPKJC	SATURN	03	0.3	185538	-220926	L	3	36287	L			89051809	093800	007500	X01	G C=5X,B=30
SPKJC	SATURN	03	0.3	185538	-220926	L	3	36288	L			89051811	112000	007500	X02	G C=5X,B=31
SPKJC	SATURN	03	0.3	185538	-220926	L	3	36289	L			89051813	130300	007500	X01	G C=5X,B=26
NPKHB	SH2-71	70	13.7	1859289	+020448	L	3	36880	L	41	SO	89082507	071000	008000	01	G B=21
SSLWM	SATURN	03	0.2	1900353	-222412	L	3	37321	L			89101604	044900	009000	X01	G C=8X,B=22
LI052	AS 338	57	12.93	1901321	+162149	L	3	37289	L	00116	SO	89100913	134926	003000	100	V
LI052	AS 338	57	12.91	1901321	+162149	L	1	16522	L	00118	SO	89100914	143006	006000	331	V PREAD
LI052	AS 338	57	12.88	1901321	+162149	L	3	37290	L	00120	SO	89100915	154520	012000	220	V
NPKHB	HEWE 12	70	11.0	1902385	-252830	L	3	36881	L	157	SO	89082509	091900	006500	01	G B=28
GHKBS	HD 177989	23	9.3	1904420	-184831	H	3	36325	L	511	FO	89052307	074700	012000	503	G C=208,B=50
GHKBS	HD 177989	23	9.3	1904420	-184831	H	1	15582	L	524	FO	89052310	101300	006000	403	G C=200,B=50
GHKBS	HD 177989	23	9.3	1904420	-184831	H	3	36326	L	632	FO	89052311	112100	020500	X06	G C=2X,B=72
GHKBS	HD 177989	23	9.3	1904420	-184831	H	3	36333	L	661	FO	89052407	074900	014000	504	G C=225,B=58
GHKBS	HD 177989	23	9.3	1904420	-184831	H	1	15587	L	645	FO	89052410	102200	009000	504	G C=238,B=59
IMLPF	HD 178253	30	4.1	1906043	-375904	H	1	16628	L	472	FU	89102408	082100	000130	409	G C=237,B=105

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
IMLPF	HD 178253	30	4.1	1906043	-375904	H	1	16629	L			89102409	092400	000103	G	
IMLPF	HD 178253	30	4.1	1906043	-375904	H	3	37448	L	502	FU	89102410	104400	000430	503 G	C=244,B=50
IMLPF	HD 178253	30	4.1	1906043	-375904	H	1	16630	L	507	FU	89102411	114800	000130	403 G	C=186,B=50
IMLPF	HD 178253	30	4.1	1906043	-375904	H	3	37449	L	517	FU	89102412	122400	000400	503 G	C=203,B=43
IMLPF	HD 178253	30	4.1	1906043	-375904	H	1	16673	L	474	FU	89102711	112800	000336	X04 G	C=2X,B=58
IMLTS	HD 179406	21	5.3	1909580	-080129	H	3	36939	L	16610	FO	89090507	073900	001400	503 G	C=212,B=41
IMLTS	HD 179406	21	5.3	1909580	-080129	H	1	16282	L	16111	FO	89090508	081300	000600	503 G	C=202,B=42
IMLTS	HD 179406	21	5.3	1909580	-080129	H	3	36940	L	16480	FO	89090508	084600	001400	502 G	C=205,B=40
IMLTS	HD 179406	21	5.3	1909580	-080129	H	1	16283	L	17339	FO	89090509	092500	000600	503 G	C=210,B=44
IMLTS	HD 179406	21	5.3	1909580	-080129	L	3	36941	L	17124	FO	89090510	102300	000008	400 G	C=140,B=18
IMLTS	HD 179406	21	5.3	1909580	-080129	L	1	16284	L	16643	FO	89090510	102900	000006	502 G	C=223,B=35
LA153	LB3116	24	13.03	1914360	-644100	L	3	36408	L	00106	SO	89060702	023550	007000	700 V	
LA153	LB 3116	24	13.03	1914360	-644100	L	3	36409	L	00106	SO	89060704	041749	002500	500 V	PREAD
LA153	LB3116	24	13.10	1914360	-644100	L	3	36417	L	00100	SO	89060722	225334	004000	500 V	
LA153	LB 3116	24	13.08	1914360	-644100	L	3	36418	L	00102	SO	89060800	001110	006000	600 V	
LA153	LB 3116	24	13.10	1914360	-644100	L	3	36419	L	00100	SO	89060801	014125	005000	500 V	PREAD
PRKCG	HD 180968	26	5.3	1915359	+225602	H	3	36329	L	17222	FO	89052321	213500	000630	502 G	C=217,B=37
HELES	EG131	29	12.3	1917529	-074541	L	1	16238	L	129	SO	89082908	082300	003500	X02 G	C=2X,B=37
HELES	EG131	29	12.3	1917529	-074541	L	1	16239	L	137	SO	89082909	093400	002000	502 G	C=208,B=38
HELES	EG131	29	12.3	1917529	-074541	L	3	36892	L	136	SO	89082910	100700	009000	402 G	C=175,B=37
HELES	EG131	29	12.3	1917529	-074541	H	1	16240	L	150	SO	89083000	000200	096000	X09 G	C=1.5X,B=146
HMLDL	HD 182308	27	6.5	1919230	+641745	L	1	15714	L	6265	FO	89061218	185400	000041	502 G	C=210,B=35
HMLDL	HD 182308	27	6.5	1919230	+641745	L	3	36466	L	6276	FO	89061219	190400	000109	500 G	C=190,B=17
LGLSD	HD 181623	40	4.7	1919364	-445338	L	3	36876	L	397	FU	89082314	140900	001300	200 G	C=20X,B=18
KQ147	BF CYG	57	10.70	1921552	+293434	L	3	36346	L	00213	FO	89052703	032848	002000	331 V	
KQ147	BF CYG	57	10.70	1921552	+293434	L	1	15607	L	00213	FO	89052703	035927	002000	562 V	
KI078	CH CYG	57	07.25	1923142	+500831	L	1	15433	L	04597	FO	89050123	233914	006000	372 V	
ZAKSK	CH CYG	57	7.5	1923142	+500831	L	1	15545	L	5022	FO	89051907	075800	006000	4X3 G	E=3X,C=170,B=43
KI078	CH CYG	57	07.24	1923142	+500831	L	3	36178	L	04627	FO	89050200	004528	012500	360 V	
ZAKSK	CH CYG	57	7.5	1923142	+500831	L	3	36299	L	5020	FO	89051909	090600	018000	3X3 G	E=1.5X,C=83,B=42
ZAKSK	CH CYG	57	7.3	1923142	+500831	L	1	15546	L	5027	FO	89051912	121300	007000	5X3 G	E=4.5X,C=223,B=46
ZAKSK	CH CYG	57	7.1	1923142	+500831	L	3	36300	L	4798	FO	89051913	133000	014500	353 G	E=253,C=87,B=47
ZAKSK	CH CYG	57	7.1	1923142	+500831	L	3	36302	L	4482	FO	89051918	182700	009000	342 G	E=181,C=84,B=37
LE168	TOL 1924-4	85	15.00	1924293	-414039	L	1	16566	L	00000	BO	89101516	164312	024500	452 V	
LE168	TOL 1924-4	85	15.00	1924293	-414039	L	3	37326	L	00000	BO	89101613	135359	041500	502 V	
LA108	HD183656	26	06.52	1928029	+032019	H	3	37481	L	08584	FO	89102913	135006	001500	500 V	
LA108	HD183658	26	06.52	1928029	+032019	H	1	16693	L	08582	FO	89102914	141308	001000	502 V	
LA108	HD183656	26	06.51	1928029	+032019	H	3	37482	L	08665	FO	89102914	144556	002000	500 V	
LA108	HD183656	26	06.46	1928029	+032019	L	3	37483	L	09091	FO	89102916	161020	000015	500 V	
LA108	HD183656	26	99.99	1928029	+032019	L	1	16694	L	00000		89102916	161305	000015	702 V	
LA108	HD183656	26	06.45	1928029	+032019	H	3	37484	L	09112	FO	89102916	164450	001640	500 V	
IMLPF	HD 184006	31	3.79	1928266	+513720	H	1	15787	L	608	FU	89062517	174600	000145	503 G	C=200,B=42
IMLPF	HD 184006	31	3.79	1928266	+513720	H	1	15788	L	624	FU	89062518	184100	000145	403 G	C=192,B=44
IMLPF	HD 184006	31	3.79	1928266	+513720	H	1	15789	L	617	FU	89062519	193300	000145	403 G	C=190,B=42
IMPLF	HD 184006	31	3.79	1928266	+513720	H	1	16031	L	566	FU	89073110	102100	000500	503 G	C=205,B=43
HCLSP	HD 183864	45	7.3	1928324	+250053	L	3	36811	L	2910	FO	89080906	064000	009000	302 G	C=74,B=36
BNLWF	M 1-91	70	13.5	1930549	+264613	L	9	02196	L			89060418	183700	030000	G	E=2X,C=211,B-61
BNLWF	M 1-91	70	13.5	1930549	+264613	L	1	15660	L	30	SO	89060418	185700	014500	05 G	B=62
CBLFF	HD 185151	47	7.7	1934410	+274618	L	3	37651	L	1806	FO	89112119	193100	021000	334 G	E=111,C=77,B=53
LGLSD	HD 186155	41	5.1	1939175	+452422	L	3	37555	L	18535	FO	89111107	072800	003600	?01 G	C=18X,B=25

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
LI135	HM SGE	57	11.76	1939414	+163733	L	3	36951	L	00329	SO	89090716	163120	001000	150	V
LI135	HM SGE	57	11.80	1939414	+163733	L	1	16297	L	00319	SO	89090716	165137	001000	352	V MAX. EMISS. 138
LI135	HM SGE	57	11.81	1939414	+163733	H	3	36952	L	00317	SO	89090717	172643	012000	141	V
LI019	HM SGE	57	11.62	1939414	+163733	L	1	16777	L	00374	SO	89111212	120900	000800	252	V
LI019	HM SGE	57	11.62	1939414	+163733	L	3	37572	L	00374	SO	89111212	122803	001000	250	V
LI019	HM SGE	57	11.65	1939414	+163733	L	1	16778	L	00363	SO	89111213	130524	008000	473	V
LI019	HM SGE	57	11.68	1939414	+163733	L	3	37573	L	00356	SO	89111214	143421	010000	270	V
LI019	HM SGE	57	11.68	1939414	+163733	H	1	16779	L	00354	SO	89111216	162213	014500	152	V
LQ173	NGC6814	84	13.97	1939557	-102634	L	3	36944	L	00046	SO	89090516	164913	018000	321	V
DCLNE	HD 186688	53	6.9	1942485	+290834	H	1	15892	L	4198	FO	89071011	115300	015000	405	G C=211,B=68
DCLNE	HD 186688	53	6.9	1942485	+290834	H	1	15916	L	3549	FO	89071412	120300	015000	406	G C=206,B=72
DCLNE	HD 186688	53	7.1	1942485	+290834	H	1	15923	L	3067	FO	89071511	115800	014200	405	G C=200,B=66
DCLNE	HD 186688	53	6.9	1942485	+290834	H	1	15960	L	3174	FO	89071912	120900	012200	408	G C=210,B=92
TIKAB	HD 186791	47	2.7	1943529	+102924	H	1	15594	L	1563	FU	89052516	160800	003500	3X6	G E=3X,C=130,B=72
TIKAB	HD 186791	47	2.7	1943529	+102924	H	1	15595	L	1563	FU	89052517	172300	000800	344	G E=174,C=82,B=52
ZBLJE	HD 187076	49	3.8	1945094	+182435	H	1	16188	L	747	FU	89082209	090900	003000	5X3	G E=1.5X,C=210,B=50
ZBLJE	HD 187076	49	3.8	1945094	+182435	H	3	36871	L	728	FU	89082209	094600	006000	X03	G C=1.5X,B=48
ZBLJE	HD 187076	49	3.8	1945094	+182435	H	1	16189	L	735	FU	89082210	105400	001000		G E=1.5X,COM C=170,B=4
ZBLJE	HD 187076	49	3.8	1945094	+182435	H	1	16787	L	776	FU	89111503	035700	002000	5X3	G E=2X,C=227,B=41
ZBLJE	HD 187076	49	3.8	1945094	+182435	H	3	37591	L	743	FU	89111504	042600	004500	503	G C=218,B=41
ZBLJE	HD 187076	49	3.8	1945094	+182435	L	1	16788	L	729	FU	89111505	052600	000730	?03	G C=35,B=48
ZBLJE	HD 187076	49	3.8	1945094	+182435	H	3	37592	L	722	FU	89111506	060200	002000	401	G C=130,B=30
ZBLJE	HD 187076	49	3.8	1945094	+182435	H	1	16790	L	712	FU	89111509	094800	000730	452	G E=228,C=140,B=39
ZBLJE	HD 187076	49	3.8	1945094	+182435	H	1	16791	L	692	FU	89111510	103800	001300	5X3	G E=2X,C=210,B=45
BEKTS	HD 187567	26	6.5	1947519	+074630	H	3	36196	L	7159	FO	89050517	171700	001300	503	G C=210,B=41
BEKTS	HD 187567	26	6.5	1947519	+074630	H	1	15458	L	7351	FO	89050517	174700	000600	503	G C=222,B=42
BEKTS	HD 187567	26	6.5	1947519	+074630	H	1	15665	L	7417	FO	89060614	140000	000530	503	G C=210,B=42
BEKTS	HD 187567	26	6.5	1947519	+074630	H	3	36401	L	7416	FO	89060614	141300	001300	503	G C=215,B=41
LI135	CI CYG	57	11.20	1948206	+353323	H	3	37047	L	00136	FO	89091620	205927	010800	030	V
ACLFB	HD 187642	31	.77	1948206	+084406	H	3	36619	L	8380	FU	89070611	115800	001500	?04	G C=23X,B=60
ZAKSK	CI CYG	57	10.8	1948209	+353323	L	3	36319	L	188	FO	89052208	080300	003000	3X1	G E=1.5X,C=46,B=23
ZAKSK	CI CYG	57	10.8	1948209	+353322	L	1	15569	L	191	FO	89052208	084000	005000	4X3	G E=1.5X,C=170,B=41
ZAKSK	CI CYG	57	10.8	1948209	+353322	L	3	36320	L	188	FO	89052209	094000	012000	3X2	G E=6X,C=105,B=36
ZAKSK	CI CYG	57	10.8	1948209	+353322	L	1	15570	L	186	FO	89052211	114700	006000	4X3	G E=2X,C=190,B=41
ZAKSK	CI CYG	57	10.8	1948209	+353322	L	3	36321	L	193	FO	89052212	125500	004000	3X1	G E=1.5X,C=52,B=23
ZAKSK	CI CYG	57	10.8	1948209	+353322	L	1	15571	L	185	FO	89052213	134300	007000	5X3	G E=2X,C=220,B=48
PHCAL	HD 187642	31	0.8	1948219	+084420	L	1	15800	L	9251	FU	89062710	105600	000400	X02	G C=4X,B=37
PHCAL	HD 187642	31	0.8	1948219	+084420	L	1	15801	L	8337	FU	89062711	113800	000000	X02	G C=1.5X,B=34
PHCAL	HD 187642	31	0.8	1948219	+084420	L	1	15802	L	9318	FU	89062712	121900	000100	542	G E=179,C=195,B=32
LDKSB	HD 187691	41	5.1	1948380	+101724	H	1	15572	L	16725	FO	89052215	154400	003000	X33	G E=95,C=1.5X,B=42
LDKSB	HD 187691	41	5.1	1948380	+101724	H	1	15583	L	16888	FO	89052315	153700	005500	X34	G E=116,C=3X,B=55
KA006	HD188209	13	06.00	1950286	+465351	H	3	36499	L	13127	FO	89061421	213402	000700	700	V
KA006	HD188209	13	05.95	1950286	+465351	H	3	36508	L	13598	FO	89061504	044541	000530	500	V
IMLDM	HR 7593	22	5.7	1951552	-082131	H	1	16433	L	12180	FO	89092707	074400	000600	503	G C=235,B=46
IMLDM	HR 7593	22	5.7	1951552	-082131	H	1	16434	L	12259	FO	89092708	082600	000510	503	G C=220,B=44
IMLDM	HR 7593	22	5.7	1951552	-082131	H	1	16435	L	12301	FO	89092709	090800	000440	503	G C=208,B=41
IMLDM	HR 7594	22	6.5	1951557	-082208	H	1	16536	L	6211	FO	89101205	055600	001100	402	G C=182,B=40
IMLDM	HR 7594	22	6.5	1951557	-082208	H	1	16537	L	6318	FO	89101206	064400	001300	503	G C=202,B=41
IMLDM	HR 7594	22	6.5	1951557	-082208	H	1	16538	L	6450	FO	89101207	073700	001330	503	G C=204,B=41
LI135	V1016 CYG	57	11.24	1955198	+394130	L	3	36953	L	00131	FO	89090720	203436	000600	260	V

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	3	37666	L	55	SO	89112400	004700	000300	G	E=1.5X
LI135	V1016 CYG	57	11.24	1955198	+394130	L	1	16298	L	00131	FO	89090720	204830	000230	352 V	MAX. EMISS. 190
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	3	37667	L	560	SO	89112401	013100	000300	2X0 G	E=1.5X,C=30,B=17
LI135	V1016 CYG	57	11.21	1955198	+394130	H	3	36954	L	00135	FO	89090721	212506	008200	360 V	
PHCAL	V1016CYG	57	10.6	1955198	+394138	H	3	37668	L	139	FO	89112402	021600	002000	51 G	E=216,B=23
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	1	16820	L	135	FO	89112403	032300	000300	3X2 G	E=1.5X,C=58,B=35
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	3	37669	L	134	FO	89112404	040700	000300	2X0 G	E=1.5X,C=27,B=18
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	1	16821	L	157	FO	89112404	044200	000300	302 G	1.5X,C=78,B=33
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	3	37670	L	129	FO	89112405	052400	000300	2X0 G	E=1.5X,C=26,B=19
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	1	16822	L	130	FO	89112405	053600	000300	3X2 G	E=1.5X,C=81,B=35
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	3	37671	L	126	FO	89112406	061300	000300	2X0 G	E=1.5X,C=37,B=18
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	1	16823	L	126	FO	89112406	065300	000300	3X2 G	E=1.5X,C=81,B=32
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	3	37672	L	12	FO	89112407	073600	000300	2X0 G	E=1.5X,C=29,B=18
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	1	16824	L	118	FO	89112408	083200	000300	3X2 G	E=1.5X,C=68,B=32
PHCAL	V1016CYG	57	10.6	1955198	+394138	H	3	37673	L	119	FO	89112409	091700	002000	51 G	E=216,B=22
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	1	16825	L	123	FO	89112409	095800	000300	3X2 G	E=1.5X,C=77,B=33
PHCAL	V1016CYG	57	10.6	1955198	+394138	L	3	37674	L	122	FO	89112410	104200	000300	2X0 G	E=1.5X,C=35,B=19
LI164	V 1016 CYG	57	11.23	1955200	+394139	L	1	16105	L	00132	FO	89081217	170805	000230	363 V	
LI164	V 1016 CYG	57	11.26	1955200	+394139	L	3	36824	L	00129	FO	89081217	171726	000600	270 V	
LI164	V 1016 CYG	57	11.31	1955200	+394139	L	1	16106	L	00123	FO	89081218	182416	001500	472 V	
LI164	V 1016 CYG	57	11.26	1955200	+394139	L	3	36825	L	00129	FO	89081218	184633	002000	370 V	
LI164	V 1016 CYG	57	11.28	1955200	+394139	H	1	16107	L	00127	FO	89081219	192619	001500	152 V	
LI164	V 1016 CYG	57	11.29	1955200	+394139	H	3	36826	L	00126	FO	89081219	195721	001800	150 V	
LI164	V 1016 CYG	57	11.20	1955200	+394139	H	1	16108	L	00136	FO	89081220	203412	006000	164 V	
SRLJE	HD 189124	49	5.1	1957325	-593052	L	1	15644	L	336	FU	89060218	185000	000400	352 G	E=244,C=63,B=33
SRLJE	HD 189124	49	5.1	1957326	-593052	L	1	15732	L	27961	FO	89061515	150500	000400	352 G	E=241,C=63,B=35
SRLJE	HD 189124	49	5.1	1957326	-593052	L	1	15794	L	341	FU	89062618	183800	000400	3X1 G	E=1.5X,C=60,B=30
SRLJE	HD 189124	49	5.1	1957326	-593052	L	1	15898	L	378	FU	89071113	130400	000400	352 G	E=206,C=61,B=31
SRLJE	HD 189124	49	5.1	1957326	-593052	L	1	15991	L	383	FU	89072609	090300	000400	352 G	E=244,C=61,B=32
SRLJE	HD 189124	49	5.1	1957326	-593052	L	1	16068	L	395	FU	89080512	123300	000400	3X2 G	E=1.5X,C=68,B=35
SRLJE	HD 189124	49	5.1	1957326	-593052	L	1	16173	L	367	FU	89081912	122400	000400	3X2 G	E=1.5X,C=72,B=39
SRLJE	HD 189124	49	5.1	1957326	-593052	L	1	16201	L	335	FU	89082511	111500	000400	252 G	E=251,C=58,B=38
SRLJE	HD 189124	49	5.1	1957326	-593052	L	1	16292	L	323	FU	89090707	072600	000400	352 G	E=217,C=60,B=32
SRLJE	HD 189124	49	5.1	1957326	-593052	L	1	16413	L	337	FU	89092313	131900	000400	3X2 G	E=1.5X,C=60,B=35
HMLDL	HD 190229	27	5.67	2001126	+155322	L	1	15724	L	12976	FO	89061413	135100	000018	502 G	C=218,B=35
HMLDL	HD 190229	27	5.6*	2001126	+155322	L	3	36494	L	12842	FO	89061414	140300	000034	500 G	C=207,B=18
LDKSB	HD 190406	44	5.8	2001510	+165600	H	1	15576	L	10553	FO	89052220	201600	008000	X33 G	E=144,C=2X,B=50
SDLJD	II+22D21	16	12.2	2002473	+221204	L	3	37609	L	122	SO	89111703	035000	000200	400 G	C=160,B=18
SDLJD	II+22D21	16	12.2	2002473	+221204	L	1	16796	L	120	SO	89111704	042900	001200	X02 G	C=3X,B=34
LI005	WZ SGE	54	14.00	2005204	+173329	L	3	36885	L	00130	BO	89082615	153549	018000	330 V	
LI005	WZ SGE	54	14.00	2005204	+173329	L	1	16217	L	00130	BO	89082618	184436	017500	502 V	PREAD
CVKPS	WZ SGE	54	15.0	2005205	+173330	L	3	36259	L		BO	89051407	075800	023000	334 G	E=106,C=117,B=54
CVKPS	WZ SGE	54	15.0	2005205	+173330	L	1	15513	L		BO	89051411	115600	017400	404 G	C=180,B=55
SCLTA	HD 191226	50	7.4	2005348	+362519	F	9	02226	2			89080401	013000	016000	G	
SCLTA	HD 191226	50	7.4	2005348	+362519	L	3	36794	L	3037	FO	89080401	015600	054500	206 G	C=75,B=73
SCLTA	HD 191226	50	7.4	2005348	+362519	L	1	16093	L	3337	FO	89080908	083200	006000	343 G	E=173,C=70,B=41
KQ176	PKS 2005-4	87	14.13	2005464	-485842	L	1	15448	L	00040	SO	89050323	234336	005000	401 V	
KQ176	PKS 2005-4	87	14.13	2005464	-485842	L	3	36190	L	00040	SO	89050400	003839	015000	300 V	
KQ176	PKS 2005-4	87	14.13	2005464	-485842	L	1	15449	L	00040	SO	89050403	032035	005500	402 V	
KQ176	PKS 2005-4	87	14.13	2005464	-485842	L	3	36191	L	00040	SO	89050404	042201	015000	300 V	PREAD

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
KQ176	PKS 2005-4	87	14.13	2005465	-485843	L	1	15442	L	00040	SO	89050300	000704	010000	502	V
KQ176	PKS 2005-4	87	14.13	2005465	-485843	L	3	36183	L	00040	SO	89050301	015203	029500	502	V
LA013	HD191610	26	05.25	2007341	+364129	H	3	37094	L	22013	FO	89092016	163134	000220	500	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37115	L	23234	FO	89092107	075700	000001	400	G C=150,B=15
LA013	HD191610	26	05.23	2007341	+364129	L	1	16385	L	22264	FO	89092017	171329	000001	500	V EFF.TIME = 0.70 SEC
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16389	L	22888	FO	89092108	080200	000001	02	G =165,B=32
LA013	HD191610	26	05.23	2007341	+364129	L	3	37095	L	22264	FO	89092017	170943	000002	500	V EFF.TIME=1.52 SEC
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37116	L	23021	FO	89092109	091100	000001	500	G C=200,B=17
LA013	HD191610	26	05.21	2007341	+364129	H	3	37096	L	22566	FO	89092018	181725	000220	500	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16390	L	22797	FO	89092109	091600	000001	501	G C=212,B=30
LA013	HD191610	26	05.23	2007341	+364129	L	3	37097	L	22353	FO	89092018	184905	000002	500	V EFF.TIME=0.70SEC
HELGP	HD 191610	26	5.0	2007341	+364129	H	3	37118	L	21765	FO	89092112	121400	000230	502	G C=218,B=38
LA013	HD191610	26	05.23	2007341	+364129	L	1	16386	L	22352	FO	89092018	185355	000001	500	V EFF. TIME =0.70 SEC
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37119	L	21518	FO	89092112	125000	000002	500	G C=222,B=15
LA013	HD191610	26	05.21	2007341	+364129	L	3	37099	L	22571	FO	89092020	203015	000002	500	V EFF.TIME = 1.52 SEC
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16391	L	21604	FO	89092112	125500	000001	X01	G C=1.5X,B=30
LA013	HD191610	26	05.21	2007341	+364129	L	1	16387	L	22571	FO	89092020	203509	000001	500	V EFF.TIME 0.70 SEC.
HELGP	HD 191610	26	5.0	2007341	+364129	H	3	37120	L	21441	FO	89092114	140000	000225	502	G C=210,B=38
LA013	HD191610	26	05.22	2007341	+364129	H	3	37098	L	22516	FO	89092020	200106	000220	500	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37121	L	21506	FO	89092114	143200	000002	500	G C=225,B=15
LA013	HD191610	26	05.23	2007341	+364129	H	3	37100	L	22337	FO	89092021	213145	000220	500	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16392	L	21435	FO	89092114	143700	000001	502	G C=195,B=32
LA013	HD191610	26	05.24	2007341	+364129	L	3	37101	L	22212	FO	89092022	220124	000002	500	V EFF.TIME 1.52 SEC.
HELGP	HD 191610	26	5.0	2007341	+364129	H	3	37132	L	22359	FO	89092123	232200	000230	503	G C=210,B=41
LA013	HD191610	26	05.23	2007341	+364129	H	3	37102	L	22316	FO	89092022	224149	000220	500	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37133	L	22281	FO	89092123	235400	000002	501	G C=199,B=25
LA013	HD191610	26	05.24	2007341	+364129	L	1	16388	L	22212	FO	89092022	220548	000001	500	V EFF. TIME 0.70 SEC /
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16398	L	22595	FO	89092200	002200	000001	502	G C=189,B=35
LA013	HD191610	26	05.25	2007341	+364129	H	3	37122	L	22033	FO	89092115	155542	000230	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	H	3	37134	L	22634	FO	89092201	011600	000230	503	G C=210,B=41
LA013	HD191610	26	05.14	2007341	+364129	L	3	37123	L	23466	FO	89092116	162436	000002	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37135	L	22004	FO	89092201	014600	000002	500	G C=196,B=20
LA013	HD191610	26	05.27	2007341	+364129	L	1	16393	L	21726	FO	89092116	163014	000001	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16399	L	22777	FO	89092201	015100	000001	402	G C=166,B=31
LA013	HD191610	26	05.27	2007341	+364129	H	3	37124	L	21726	FO	89092117	173050	000230	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	H	3	37136	L	22000	FO	89092202	024500	000230	503	G C=217,B=41
LA013	HD191610	26	05.29	2007341	+364129	L	3	37125	L	21520	FO	89092118	180929	000002	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37137	L	22685	FO	89092203	031600	000002	501	G C=195,B=23
LA013	HD191610	26	05.27	2007341	+364129	L	1	16394	L	21735	FO	89092118	180728	000001	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16400	L	22370	FO	89092203	032100	000001	402	G C=171,B=31
LA013	HD191610	26	05.34	2007341	+364129	H	3	37126	L	20926	FO	89092119	190203	000230	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	H	3	37138	L	22450	FO	89092204	041600	000230	503	G C=220,B=41
LA013	HD191610	26	05.34	2007341	+364129	L	3	37127	L	20877	FO	89092119	193256	000002	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37139	L	21972	FO	89092204	044600	000002	500	G C=202,B=20
LA013	HD191610	26	05.30	2007341	+364129	L	1	16395	L	21337	FO	89092119	193824	000001	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16401	L	21000	FO	89092204	045100	000001	402	G C=162,B=34
LA013	HD 191610	26	05.12	2007341	+364129	H	3	37128	L	23770	FO	89092120	203832	000230	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	H	3	37140	L	22394	FO	89092205	054700	000230	503	G C=218,B=41
LA013	HD191610	26	05.29	2007341	+364129	L	3	37129	L	21592	FO	89092121	210903	000002	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37141	L			89092206	061900	000002		G

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
LA013	HD191610	26	05.31	2007341	+364129	L	1	16396	L	21317	FO	89092121	211402	000001	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16402	L			89092206	062300	000001		G
LA013	HD191610	26	05.29	2007341	+364129	H	3	37130	L	21538	FO	89092122	221005	000230	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	H	3	37142	L	23257	FO	89092207	071800	000230	502	G C=210,B=38
LA013	HD191610	26	05.25	2007341	+364129	L	3	37131	L	22000	FO	89092122	223813	000002	501	V PREAD
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37143	L			89092207	075000	000002		G
LA013	HD191610	26	05.25	2007341	+364129	L	1	16397	L	22000	FO	89092122	224123	000001	501	V PREAD
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16403	L			89092207	075500	000000		G
LA013	HD191610	26	05.24	2007341	+364129	H	3	37150	L	22207	FO	89092218	184743	000230	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	H	3	37144	L	23566	FO	89092209	091700	000230	502	G C=215,B=38
LA013	HD191610	26	05.19	2007341	+364129	L	3	37151	L	22792	FO	89092219	191843	000002	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37147	L	20940	FO	89092212	125900	000002	500	G C=210,B=18
LA013	HD191610	26	05.21	2007341	+364129	L	1	16406	L	22526	FO	89092219	192447	000001	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16404	L	20774	FO	89092213	130500	000001	401	G C=170,B=30
LA013	HD191610	26	05.25	2007341	+364129	H	3	37152	L	22042	FO	89092220	203325	000230	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	H	3	37148	L	20883	FO	89092213	133800	000230	502	G C=210,B=37
LA013	HD191610	26	05.24	2007341	+364129	L	1	16407	L	22218	FO	89092221	211056	000001	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	3	37149	L	25496	FO	89092214	143600	000002	500	G C=200,B=16
LA013	HD191610	26	05.26	2007341	+364129	L	3	37153	L	21940	FO	89092221	210501	000002	501	V
HELGP	HD 191610	26	5.0	2007341	+364129	L	1	16405	L	25496	FO	89092214	144100	000001	401	G C=175,B=30
LA013	HD191610	26	05.13	2007341	+364129	H	3	37154	L	23623	FO	89092222	222427	000230	501	V
LA013	HD191610	26	05.19	2007341	+364129	L	1	16408	L	22921	FO	89092222	223139	000001	501	V PREAD
LA021	HD191765	11	08.42	2008215	+360139	H	3	37705	L	01625	FO	89113013	135308	004000	370	V HE2 SATURATED
LA021	HD191765	11	08.46	2008215	+360139	H	3	37707	L	01569	FO	89113016	164724	004000	370	V HE2 SATURATED
HCLSP	HD 191897	39	7.3	2008548	+365400	L	1	16379	L	2425	FO	89091814	141000	000400	402	G C=159,B=37
HCLSP	HD 191897	39	7.3	2008548	+365400	L	3	37069	L	2435	FO	89091814	142400	001000	300	G C=81,B=18
FGLWF	FG SGE	70	9.6	200943	+201054	L	3	36253	L	631	FO	89051308	080300	040700	05	G B=65
KI146	FG SGE	41	09.79	2009430	+201054	L	1	15561	L	00480	FO	89052023	235204	011000	501	V
KI146	FG SGE	31	09.71	2009430	+201054	L	1	15700	L	00514	FO	89061101	013212	012000	501	V
LA021	HD192163	11	07.78	2010171	+381215	H	3	37704	L	02862	FO	89113012	121901	004000	370	V HE2 SATURATED
LA021	HD192163	11	07.83	2010171	+381215	H	3	37706	L	02741	FO	89113015	152051	004000	370	V HE2 SATURATED
ZBLJE	HD 192577	47	3.7	2012033	+463520	H	1	16190	L	617	FU	89082212	123900	000500	443	G E=186,C=166,B=46
ZBLJE	HD 192577	47	3.7	2012033	+463520	H	3	36872	L	624	FU	89082212	125400	000800	402	G C=165,B=40
ZBLJE	HD 192577	47	3.7	2012033	+463520	H	1	16789	L	619	FU	89111508	083100	000500	553	G E=212,C=196,B=41
ZBLJE	HD 192577	47	3.7	2012033	+463520	H	3	37593	L	621	FU	89111508	084300	000800	402	G C=179,B=34
LDKDB	HD 192310	46	5.7	2012104	-271102	L	1	15555	L	11942	FO	89052015	154100	000600	X02	G C=1.5X,B=32
LA165	HD192641	10	08.34	2012394	+363028	H	3	36835	L	01745	FO	89081318	185001	015700	453	V
LA165	HD192641	10	08.43	2012394	+363028	L	1	16124	L	01618	FO	89081415	154037	000050	561	V
LA165	HD 192641	10	08.44	2012394	+363028	H	1	16828	L	01601	FO	89112416	164425	007000	501	V
LA165	HD192641	10	08.46	2012394	+363028	L	1	16829	L	01575	FO	89112418	185333	000042	500	V PARTIAL READ
LA165	HD 192641	10	08.42	2012394	+363028	L	3	37677	L	01629	FO	89112418	180006	000235	500	V
ALKGP	VW CYG	66	11.5	2013159	+342132	L	3	36186	L	283	SO	89050316	165400	006000	204	G C=76,B=58
ALKGP	VW CYG	66	11.5	2013159	+342132	L	3	36187	L	129	FU	89050318	184800	003000	09	G B=131
ALKGP	VW CYG	66	11.5	201316	+342133	L	1	15445	L	95	FO	89050316	160400	004000	304	G C=146,B=55
ALKGP	VW CYG	66	11.5	201316	+342133	L	1	15446	L	182	SO	89050318	180300	003500	339	G E=160,C=155,B=127
LC171	22 VUL	45	05.73	2013206	+232117	H	3	36581	L	16038	FO	89062801	013249	011400	401	V
LC171	22 VUL	45	05.75	2013206	+232117	H	1	15806	L	15863	FO	89062803	033435	007300	563	V
JA066	HD193237	23	05.15	2015564	+375235	H	3	36331	L	23457	FO	89052323	234253	005000	770	V
JA066	HD193237	23	05.15	2015565	+375236	H	1	15586	L	23328	FO	89052400	004049	000400	561	V
JA066	HD193237	23	05.30	2015565	+375236	H	1	15653	L	21367	FO	89060321	215548	000400	601	V

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
JA066	HD 193237	23	05.27	2015565	+375236	H	3	36445	L	21821	FO	89061103	035623	003000	560	V
JA066	HD 193237	23	05.25	2015565	+375236	H	1	15701	L	22005	FO	89061104	043347	000400	561	V
LA044	P CYG	23	04.90	2015565	+375236	H	1	15861	L	22887	FO	89070619	194541	000400	661	V
LA044	P CYG	23	04.90	2015565	+375236	H	3	36627	L	23817	FO	89070619	195823	003000	601	V
LA044	P CYG	23	04.90	2015565	+375236	H	1	15862	L	25100	FO	89070620	204501	000400	651	V
PHCAL	HD193237	23	05.38	2015565	+375236	H	1	15925	L	20383	FO	89071519	192422	000400	660	V SIEP=-3.29
PHCAL	HD193237	23	05.30	2015565	+375236	H	1	15926	L	21389	FO	89071520	200541	000400	660	V SIEP=-2.86
PHCAL	HD193237	23	05.25	2015565	+375236	H	1	15927	L	22046	FO	89071520	204258	000400	660	V SIEP=-2.01
PHCAL	HD193237	23	05.22	2015565	+375236	H	1	15928	L	22506	FO	89071521	212225	000400	660	V SIEP=-1.59
PHCAL	HD193237	23	05.23	2015565	+375236	H	1	15929	L	22287	FO	89071522	220450	000400	660	V SIEP=-1.71
PHCAL	HD193237	23	05.18	2015565	+375236	H	1	15930	L	23045	FO	89071522	225814	000400	660	V SIEP=-0.87
PHCAL	HD193237	23	05.16	2015565	+375236	H	1	15931	L	23226	FO	89071523	233836	000400	660	V SIEP=0.30
PHCAL	HD193237	23	05.20	2015565	+375236	H	1	15932	L	22658	FO	89071600	001723	000400	660	V SIEP=-1.00
PHCAL	HD193237	23	05.21	2015565	+375236	H	1	15933	L	22633	FO	89071600	005336	000400	660	V SIEP=-1.87
PHCAL	HD193237	23	05.21	2015565	+375236	H	1	15934	L	22631	FO	89071601	013037	000400	660	V SIEP=-1.92
PHCAL	HD193237	23	05.21	2015565	+375236	H	1	15935	L	22619	FO	89071602	020730	000400	660	V SIEP=-2.01
PHCAL	HD193237	23	05.24	2015565	+375236	H	1	15936	L	22228	FO	89071602	024252	000400	660	V SIEP=-2.88
SA066	HD 193237	23	05.18	2015565	+375236	H	1	16082	L	23000	FO	89080700	000749	000400	551	V
LA044	HD 193237	23	05.19	2015565	+375236	H	1	16373	L	22793	FO	89091722	221646	000400	550	V
LA044	HD 193237	23	05.19	2015565	+375236	H	3	37063	L	22901	FO	89091722	222732	002000	550	V
LA044	HD193237	23	05.30	2015565	+375236	H	1	16447	L	21440	FO	89092819	195640	000400	562	V
LA044	HD 193237	23	05.29	2015565	+375236	H	3	37201	L	21492	FO	89092820	200746	002500	460	V
LA044	HD193237	23	05.17	2015565	+375236	H	1	16448	L	23160	FO	89092820	204856	000400	562	V REF. PNT. =-31,-204
LA044	HD 193237	23	05.45	2015565	+375236	H	1	16631	L	19461	FO	89102414	140301	000400	562	V
IMLTS	HD 193322	12	5.8	2016206	+403431	H	3	36935	L	10929	FO	89090410	100400	001100	502	G C=195,B=34
IMLTS	HD 193322	12	5.8	2016206	+403431	H	1	16277	L	11130	FO	89090410	103600	000600	503	G C=225,B=44
IMLTS	HD 193322	12	5.8	2016206	+403431	H	3	36936	L	11045	FO	89090411	110900	001100	502	G C=207,B=38
IMLTS	HD 193322	12	5.8	2016206	+403431	H	1	16278	L	10860	FO	89090411	114500	000600	503	G C=216,B=42
IMLTS	HD 193443	12	7.2	2017013	+380720	L	3	36934	L	3302	FO	89090407	073400	000200	400	G C=150,B=19
IMLTS	HD 193443	12	7.2	2017013	+380720	H	1	16276	L	3279	FO	89090407	075000	010000	X04	G C=2X,B=60
HMLDL	HD 193452	36	6.1	2017580	-145637	L	1	15711	L	8764	FO	89061214	142300	000035	402	G C=180,B=35
HMLDL	HD 193452	36	6.1	2017580	-145637	L	3	36463	L	9375	FO	89061215	150300	000100	400	G C=155,B=17
HMLDL	HD 193452	36	6.1	2017581	-145638	L	3	37314	L	8521	FO	89101507	071700	000126	501	G C=192,B=26
HMLDL	HD 193452	36	6.1	2017581	-145638	L	1	16561	L	8704	FO	89101507	075400	000045	502	G C=200,B=35
LA165	HD193793	10	07.35	2018467	+434143	L	3	36833	L	04189	FO	89081315	154340	000140	550	V
LA165	HD193793	10	07.35	2018467	+434143	L	1	16114	L	04188	FO	89081315	154952	000020	552	V
LA165	HD193793	10	07.34	2018467	+434143	H	3	36834	L	04250	FO	89081316	162709	008000	452	V
LA165	HD193793	10	07.34	2018467	+434143	H	1	16115	L	04250	FO	89081317	175626	003000	453	V
LA165	HD 193793	10	07.41	2018467	+434143	H	3	37675	L	03992	FO	89112412	120449	012000	501	V
LA165	HD193793	10	07.40	2018467	+434143	H	1	16826	L	04006	FO	89112414	141237	003800	500	V
LA165	HD193793	10	07.40	2018467	+434143	L	3	37676	L	04009	FO	89112414	145717	000125	600	V
LA165	HD193793	10	07.40	2018467	+434143	L	1	16827	L	04024	FO	89112415	153821	000025	600	V
ESLGW	PU VUL	57	10.0	2019010	+212442	L	3	37184	L	283	FO	89092423	234000	001640	4X1	G E=1.5X,C=140,B=23
ESLGW	PU VUL	57	10.0	2019010	+212442	L	3	37185	L	287	FO	89092500	003900	003000	5X0	G E=3X,C=190,B=20
ESLGW	PU VUL	57	10.0	2019010	+212442	L	1	16416	L	298	FO	89092501	011800	000200	3X2	G E=1.5X,C=114,B=36
ESLGW	PU VUL	57	10.0	2019010	+212442	H	1	16417	L	283	FO	89092502	021700	003500	3X3	G E=1.5X,C=74,B=42
ESLGW	PU VUL	57	10.0	2019010	+212442	H	1	16418	L	288	FO	89092503	032900	007000	3X3	G E=3X,C=83,B=49
ESLGW	PU VUL	57	10.0	2019010	+212442	H	3	37190	L	288	FO	89092523	235500	041600	4X6	G E=2X,C=186,B=72
JI097	PU VUL	57	10.19	2019011	+212443	H	3	36332	L	00336	FO	89052401	013637	031000	361	V
NOKSK	PU VUL	57	9.0	2019011	+212443	L	1	15547	L	280	FO	89051916	163700	000500	5X2	G E=1.5X,C=248,B=37

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	EQC	Comment
NCKSK PU VUL		57	9.0	2019011	+212443	L	3	36301	L	284	FO	89051916	165000	002000	4X0	G E=255,C=120,B=18
NCKSK PU VUL		57	9.9	2019011	+212443	L	1	15548	L	281	FO	89051917	173100	000300	4X2	G E=1.5X,C=170,B=37
NCKSK PU VUL		57	9.9	2019011	+212443	L	1	15549	L	301	FO	89051920	204000	000345	5X2	G E=2X,C=204,B=32
NCKSK PU VUL		57	9.9	2019011	+212443	L	3	36303	L	307	FO	89051920	205100	004000	5X2	G E=2X,C=193,B=33
NCKSK PU VUL		57	9.9	2019011	+212443	L	1	15550	L	307	FO	89051921	215800	000345	4X2	G E=2X,C=178,B=32
NCKSK PU VUL		57	9.9	2019011	+212443	L	3	36304	L	308	FO	89051922	220800	001500	350	G E=214,C=105,B=17
NCKSK PU VUL		57	9.9	2019011	+212443	L	1	15551	L	312	FO	89051922	223900	000400	5X2	G E=4X,C=186,B=32
NCKSK PU VUL		57	9.9	2019011	+212443	H	3	36314	L	340	FO	89052107	074800	042000	3X7	G E=2X,C=166,B=84
XBLCS V404 CYG		59	12.7	202206	+334218	L	3	36349	L	172	SO	89052707	072700	015000	02	G B=35
LITOO V404 CYG		55	13.00	2022062	+334218	E	9	02195	2	00000	BO	89060100	000500	016000		V
NOLSS V404 CYG		59	12.7	2022062	+334218	L	1	15640	L		BO	89060123	232800	079200	309	G C=185,B=134
KQ147 V404 CYG		59	99.99	2022063	+334218	L	1	15608	L	00169	FO	89052705	055313	001500	001	V
KQ147 V404 CYG		55	99.99	2022063	+334218	L	3	36348	L	00173	FO	89052706	062956	001700	001	V
KQ147 V404 CYG		55	99.99	2022626	+334218	L	3	36347	L	00134		89052705	051219	001700	001	V
CVLSS QU VUL		55	0.0	2024406	+274048	L	3	36933			FO	89090405	053100	096000	339	G E=195,C=139,B=111
SDLJD IV+00D21		16	12.4	2028454	+005512	L	3	37610	L	129	SO	89111705	053900	000500	500	G C=198,B=18
SDLJD IV+00D21		16	12.4	2028454	+005512	L	1	16797	S	128	SO	89111706	061700	004000	503	G C=210,B=45
SDLJD IV+00D21		16	12.4	2028454	+005512	L	1	16797	L			89111706	061700	002000		G
MSLHJ AD CYG		50	8.5	2029364	+322340	L	1	16091	L	1414	FO	89080803	031100	052100	339	G E=186,C=164,B=134
HMLDL HD	196502	36	5.20	2032112	+744700	L	1	15725	L	17886	FO	89061415	153100	000050	502	G C=208,B=36
HMLDL HD	196502	36	5.20	2032112	+744700	L	3	36495	L	17549	FO	89061415	155000	000205	401	G C=176,B=27
USSBS HD	196379	33	6.21	2033229	+514050	H	3	37690	L	7988	FO	89112705	054400	014500	303	G C=98,B=41
USSBS HD	196379	33	6.21	2033229	+514050	H	1	16849	L	7557	FO	89112708	081600	012000	X04	G C=1.5X,B=55
USSBS HD	196524	41	3.78	2035142	+142523	H	1	16624	L	688	FU	89102321	213800	000600	X04	G C=1.5X,B=60
IBLEG HD	197433	66	7.9	2038029	+752458	H	1	15825	L	2530	FO	89070204	041400	011000	333	G E=140,C=106,B=42
IBLEG HD	197433	66	7.9	2038029	+752458	L	3	36598	L	2276	FO	89070206	061300	005500	221	G E=44,C=40,B=30
IBLEG HD	197433	66	7.9	2038029	+752458	H	1	15826	L	2286	FO	89070207	072000	011000	343	G E=145,C=108MB=45
IBLEG HD	197433	66	7.9	2038029	+752458	L	3	36599	L	2306	FO	89070209	093300	011000	331	G E=80,C=58MB=28
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15827	L	2688	FO	89070211	113600	000500	452	G E=228MC=160,B=32
IBLEG HD	197433	66	7.9	2038029	+752458	L	3	36600	L	2533	FO	89070212	122200	011000	332	G E=103,C=55,B=32
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15828	L	1925	FO	89070213	131700	000600	452	G E=207,C=138,B=33
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15829	L	2521	FO	89070214	145900	000440	452	G E=220,C=160,B=32
IBLEG HD	197433	66	7.9	2038029	+752458	L	3	36601	L	2394	FO	89070215	154600	011000	X03	G C=1.5X,B=44
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15830	L	1963	FO	89070216	163700	000600	452	G E=218,C=155,B=35
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15831	L	2537	FO	89070218	180800	000440	452	G E=232,C=153,B=32
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15833	L	2702	FO	89070304	043200	000440	552	G E=213,C=196,B=32
IBLEG HD	197433	66	7.9	2038029	+752458	L	3	36605	L	2658	FO	89070304	044700	008500	232	G E=82,C=47,B=35
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15834	L	2339	FO	89070305	053000	000530	552	G E=201,C=205,B=32
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15835	L	2335	FO	89070306	064600	000500	552	G E=196,C=210,B=32
IBLEG HD	197433	66	7.9	2038029	+752458	L	3	36606	L	2567	FO	89070307	072000	008000	232	G E=77,C=47,B=35
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15836	L	2458	FO	89070308	084800	000700	552	G E=213,C=220,B=32
IBLEG HD	197433	66	7.9	2038029	+752458	L	3	36607	L	2070	FO	89070309	092300	009000	X1	G E=1.5X,B=27
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15837	L	2528	FO	89070310	101700	000500	452	G E=200,C=150,B=33
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15838	L	2720	FO	89070311	112400	000440	452	G E=210,C=154,B=35
IBLEG HD	197433	66	7.9	2038029	+752458	L	3	36608	L	2142	FO	89070312	123600	010000	X2	G E=1.5X,B=31
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15839	L	2420	FO	89070313	133500	000500		G
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15840	L	2575	FO	89070314	144900	000500	452	G E=234,C=180,B=35
IBLEG HD	197433	66	7.9	2038029	+752458	L	3	36609	L	2302	FO	89070315	153200	011000	3X3	G E=1.5X,C=75,B=50
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15841	L	1996	FO	89070316	163200	000600	452	G E=247,C=168,B=35
IBLEG HD	197433	66	7.9	2038029	+752458	L	1	15842	L	2502	FO	89070317	175600	000440	402	G E=225,C=157,B=32

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
QSKMM	MKN 509	84	13.1	2041261	-105418	L	3	36211	L	51	SO	89050711	113200	006000	351	G E=204,C=90,B=24
QSKMM	MKN 509	84	13.1	2041261	-105418	L	1	15474	L	51	SO	89050712	124300	006000	5X2	G E=1.5X,C=198,B=38
QSKMM	MKN 509	84	13.1	2041261	-105418	L	3	36212	L	50	SO	89050713	135100	006000	351	G E=189,C=80,B=25
LQ173	2045-3746	85	16.50	2045406	-374600	E	9	02243	2	00000	BO	89090415	155800	004000		V FOR LWP16281
QSLDT	QSO 2045-37	85	16.5	2045406	-374600	L	1	16281	L		BO	89090423	235100	086000	339	G E=199,C=176,B=125
QSLDT	QSO 2045-37	85	16.5	2045406	-374600	L	3	36950	L		BO	89090623	230800	089500	08	G B=97
LQ173	2045-3746	85	16.50	2045407	-374600	E	9	02245	2	00000	BO	89090615	152000	004000		V FOR SWP36950
IMLTS	HD 198478	24	4.8	2047140	+455540	H	3	36937	L	20934	FO	89090412	124000	002500	502	G C=198,B=34
IMLTS	HD 198478	24	4.8	2047140	+455540	H	1	16279	L	20750	FO	89090413	131600	001000	X03	G C=2X,B=50
IMLTS	HD 198478	24	4.8	2047140	+455540	H	3	36938	L	21399	FO	89090413	135000	002800	502	G C=200,B=35
IMLTS	HD 198478	24	4.8	2047140	+455540	H	1	16280	L	22556	FO	89090414	142600	000700	503	G C=230,B=41
BEKTS	HD 198625	26	6.3	2048131	+462826	H	3	36195	L	7052	FO	89050515	155700	001800	543	G E=180,C=218,B=41
BEKTS	HD 198625	26	6.3	2048131	+462826	H	1	15457	L	7668		89050516	162200	000700	503	G C=198,B=41
IDKJC	HD 198781	20	6.5	2048250	+635119	L	3	36260	L	6245	FO	89051415	154400	000056	500	G C=182,B=20
IDKJC	HD 198781	20	6.5	2048250	+635119	L	1	15514	L	6193	FO	89051416	162300	000135	X03	G C=3X,B=41
IDKJC	HD 198781	20	6.5	2048250	+635119	L	1	15514	S	6193	FO	89051416	163400	013500	502	G C=218,B=38
LL164	HBV 475	57	13.35	2049026	+352337	L	3	36823	L	00080	SO	89081215	151325	006000	052	V
HCLSP	HD 200031	39	6.8	2057471	+383738	L	3	37492	L	4219	FO	89103111	114600	001000	300	G C=84,B=19
HCLSP	HD 200031	39	6.8	2057471	+383738	L	1	16705	L	4052	FO	89103112	121900	000300	X02	G C=1.5X,B=36
PRKCG	HD 200120	26	4.5	2058069	+471929	H	3	36330	L	323	FU	89052322	222200	000103	504	G C=225,B=58
LDKSB	HD 201091	46	5.2	2104500	+383147	L	1	15573	L	15613	FO	89052217	170600	000300	4X2	G E=1.5X,C=158,B=35
LDKSB	HD 201091	46	5.2	2104500	+383147	L	1	15577	L	16019	FO	89052222	222600	000245	452	G E=208,C=152,B=32
LDKSB	HD 201092	46	6.0	2104514	+383123	L	1	15574	L	8363	FO	89052217	175200	000500	352	G E=189,C=90,B=35
RVLEB	T CEP	51	7.1	2108528	+681711	H	1	16840	L	5529	FO	89112606	061600	004500	44	G E=173,B=55
RVLEB	T CEP	51	6.0	2108529	+681712	L	1	16716	L	8865	FO	89110119	195900	002000	3X2	G E=3X,C=83,B=38
RVLEB	T CEP	51	6.0	2108529	+681712	H	1	16717	L	8487	FO	89110120	205700	024000	3X6	G E=3X,C=108,B=73
RVLEB	T CEP	51	7.1	2108529	+681712	H	1	16758	L	7867	FO	89110803	034000	006000	43	G E=160,B=42
RVLEB	T CEP	51	6.0	2108529	+681712	H	1	16785	L	7434	FO	89111409	095900	005000	42	G E=142,B=40
LDKDB	HD 201891	41	7.4	2109400	+173204	L	1	15559	L	3267	FO	89052021	211600	000425	502	G C=226,B=34
CVKPS	V1500CYG	55	16.0	2109530	+475642	L	3	36268	L		BO	89051510	102600	026500	04	G B=51
USSBS	HD 202109	45	3.20	2110482	+300114	H	1	16625	L	940	FU	89102322	222900	001030	405	G C=220,B=70
SAKCW	HD 203064	13	5.0	211635	+434405	L	3	36315	L	21086	FO	89052115	153700	000005	500	G C=180,B=18
SAKCW	HD 203064	13	5.0	211635	+434405	L	3	36315	S	21086	FO	89052115	153800	000005	500	G C=180,B=18
SAKCW	HD 203064	13	5.0	211635	+434405	L	1	15564	L	20686	FO	89052115	155200	000005	502	G C=214,B=32
OBLJN	HD 203064	14	5.0	2116350	+434404	H	3	37329	L	20004	FO	89101706	063800	000220	502	G C=190,B=35
OBLJN	HD 203064	14	5.0	2116350	+434404	H	3	37332	L	20052	FO	89101709	091200	000220	502	G C=210,B=35
OBLJN	HD 203064	14	5.0	2116350	+434404	H	3	37335	L	19967	FO	89101711	115400	000220	502	G C=210,B=38
KA006	HD203064	12	05.44	2116351	+434405	H	3	36500	L	19641	FO	89061422	222445	000220	500	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37347	L	20633	FO	89101721	212000	000220	502	G C=210,B=40
KA006	HD203064	12	05.34	2116351	+434405	H	3	36504	L	20833	FO	89061501	014843	000220	500	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37350	L	20552	FO	89101723	235200	000220	502	G C=210,B=39
KA006	HD203064	12	05.27	2116351	+434405	H	3	36514	L	21856	FO	89061521	214924	000220	501	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37353	L	20653	FO	89101802	021900	000220	503	G C=216,B=41
KA006	HD203064	12	05.07	2116351	+434405	H	3	36518	L	24435	FO	89061601	010925	000220	501	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37356	L	19846	FO	89101804	043600	000220	502	G C=210,B=38
KA006	HD203064	12	05.40	2116351	+434405	H	3	36522	L	20053	FO	89061603	035701	000220	501	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37359	L	20134	FO	89101807	071200	000220	502	G C=218,B=38
KA006	HD203064	12	05.08	2116351	+434405	H	3	36530	L	24367	FO	89061621	215439	000220	501	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37362	L	20409	FO	89101809	093600	000220	502	G C=220,B=39
KA006	HD203064	00	05.44	2116351	+434405	H	3	36534	L	19588	FO	89061701	013718	000220	501	V

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37365	L	20264	FO	89101812	120700	000220	502	G C=220,B=38
KAC06	HD203064	12	05.21	2116351	+434405	H	3	36538	L	22585	FO	89061704	044925	000100	301	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37374	L	20563	FO	89101822	225900	000220	503	G C=216,B=41
LA015	HD203064	14	05.43	2116351	+434405	H	3	37338	L	19714	FO	89101714	142748	000220	500	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37377	L	19765	FO	89101901	011600	000220	503	G C=219,B=41
LA015	HD203064	14	05.42	2116351	+434405	H	3	37341	L	19800	FO	89101716	162941	000220	500	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37380	L	20275	FO	89101903	034600	000220	502	G C=219,B=38
LA015	HD203064	14	05.41	2116351	+434405	H	3	37344	L	19913	FO	89101718	183341	000220	500	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37383	L	20695	FO	89101906	061600	000220	502	G C=212,B=39
LA015	HD203064	14	05.44	2116351	+434405	H	3	37368	L	19647	FO	89101818	180414	000220	500	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37386	L	20377	FO	89101908	084600	000220	502	G C=218,B=38
LA015	HD 203064	14	05.41	2116351	+434405	H	3	37371	L	19913	FO	89101820	202432	000220	500	V
OBLJN	HD 203064	14	5.0	2116351	+434405	H	3	37389	L	19902	FO	89101911	113800	000220	502	G C=222,B=38
LA015	HD203064	14	05.45	2116351	+434405	H	3	37394	L	19474	FO	89101918	181513	000220	501	V
LA015	HD203064	14	05.35	2116351	+434405	H	3	37396	L	20787	FO	89101920	200357	000220	501	V
GHLD	HD 203664	21	8.3	2121023	+094301	H	3	37035	L	1350	FO	89091523	235600	004500	503	G C=250,B=46
GHLD	HD 203664	21	8.3	2121023	+094301	H	1	16368	L	1063	FO	89091600	005500	003000	503	G C=240,B=48
GHLD	HD 203664	21	8.3	2121023	+094301	H	3	37036	L	1092	FO	89091601	014200	006500	X04	G C=2X,B=55
GHLD	HD 203664	21	8.3	2121023	+094301	H	1	16369	L	1136	FO	89091602	025500	003000	503	G C=240,B=49
GHLD	HD 203699	20	6.9	2121121	+135007	H	3	37037	L	4992	FO	89091603	035700	002500	503	G C=230,B=43
GHLD	HD 203699	20	6.9	2121121	+135007	H	1	16370	L	5066	FO	89091604	043600	002500	X04	G C=3X,B=58
GHLD	HD 203699	20	6.9	2121121	+135007	H	3	37038	L	5006	FO	89091605	051200	003000	X03	G C=1.5X,B=46
GHLD	HD 203699	20	6.9	2121121	+135007	H	1	16371	L	5262	FO	89091605	055300	001500	503	G C=234,B=46
GHLD	HD 203699	20	6.9	2121121	+135007	H	3	37039	L	5241	FO	89091606	062600	002500	503	G C=226,B=41
IDKJC	HD 203532	21	6.4	2125580	-825418	L	3	36271	L	6841	FO	89051521	210800	000131	500	G C=192,B=18
IDKJC	HD 203532	21	6.4	2125580	-825418	L	1	15523	L	6853	FO	89051521	212200	000140	X02	G C=3X,B=40 SR1
IDKJC	HD 203532	21	6.4	2125580	-825418	L	1	15523	S	7085	FO	89051521	213300	000024	X02	G C=3X,B=40 SR1
LA148	PHL1580	23	12.59	2127359	-194002	L	3	37223	L	00158	SO	89100114	142119	002000	600	V
TIKAB	HD 204867	45	2.9	2128557	-054732	H	1	15596	L			89052518	183000	000800	3X6	G E=1.5X,C=164,B=73
SRLJE	HD 205730	49	5.5	2134081	+450859	L	1	15645	L	16274	FO	89060220	200400	001000	241	G E=133,C=50,B=30
SRLJE	HD 205730	49	5.5	2134081	+450859	L	1	15646	L			89060220	202400	000035	02	G B=32
CSKJE	HD 205730	49	5.5	2134082	+450900	L	1	15441	L	20750	FO	89050222	223500	001000	242	G E=148,C=50,B=34
SRLJE	HD 205730	49	5.5	2134082	+450900	L	1	15733	L	15947	FO	89061516	163100	001000	345	G E=166,C=92,B=66
SRLJE	HD 205730	49	5.5	2134082	+450900	L	1	15795	L	16613	FO	89062619	195200	001000	232	G E=91,C=48,B=31
SRLJE	HD 205730	49	5.5	2134082	+450900	L	1	15899	L	20098	FO	89071114	142200	001000	232	G E=80,C=56,B=39
SRLJE	HD 205730	49	5.5	2134082	+450900	L	1	15992	L	24548	FO	89072610	101600	001000	32	G E=81,B=34
SRLJE	HD 205730	49	5.5	2134082	+450900	L	1	16066	L	293	FU	89080510	100100	001000	332	G E=97,C=61,B=36
SRLJE	HD 205730	49	5.5	2134082	+450900	L	1	16172	L	24575	FO	89081911	111800	001000	232	G E=124,C=57,B=37
SRLJE	HD 205730	49	5.5	2134082	+450900	L	1	16203	L	21647	FO	89082513	135400	001000	332	G E=134,C=68,B=39
SRLJE	HD 205730	49	5.5	2134082	+450900	L	1	16293	L	21053	FO	89090708	083000	001000	242	G E=138,C=46,B=33
SRLJE	HD 205730	49	5.5	2134082	+450900	L	1	16412	L	17666	FO	89092311	115400	001000	32	G E=134,B=36
GCLRR	NGC 7099	83	7.3	2137320	-232424	L	1	16462	L	179	FO	89100121	212900	004500	303	G C=142,B=46
GCLRR	NGC 7099	83	7.3	2137320	-232424	L	3	37232	L		BO	89100122	222000	006000	301	G C=73,B=21
GCLRR	NGC 7099	83	7.3	2137320	-232424	L	1	16463	L		BO	89100123	232500	030000	309	G C=178,B=116
GCLRR	NGC 7099	83	7.3	2137320	-232424	L	3	37233	L		BO	89100123	234900	029000	306	G C=130,B=72
LI138	SS CYG	54	09.59	2140445	+432123	H	3	37633	L	00571	FO	89112012	120207	004500	300	V
LI138	SS CYG	54	09.60	2140445	+432123	L	1	16800	L	00569	FO	89112013	130300	000030	302	V
LI138	SS CYG	54	09.61	2140445	+432123	H	3	37634	L	00564	FO	89112013	133331	006000	401	V
LI138	SS CYG	54	09.65	2140445	+432123	H	3	37635	L	00543	FO	89112015	150308	006000	401	V
LI138	SS CYG	54	09.66	2140445	+432123	H	3	37636	L	00538	FO	89112016	163229	006000	401	V

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
LI138	SS CYG	54	09.72	2140445	+432123	H	3	37637	L	00511	FO	89112018	180209	004500	300	V
LI138	SS CYG	54	09.97	2140445	+432123	H	3	37647	L	00407	FO	89112111	114101	007500	401	V
LI138	SS CYG	54	10.00	2140445	+432123	H	3	37648	L	00398	FO	89112113	132858	007500	401	V
LI138	SS CYG	54	10.03	2140445	+432123	H	3	37649	L	00386	FO	89112115	151652	007500	401	V
LI138	SS CYG	54	10.09	2140445	+432123	H	3	37650	L	00368	FO	89112117	170205	007500	401	V
LI138	SS CYG	54	10.08	2140445	+432123	L	1	16807	L	00371	FO	89112118	182331	000055	503	V
CVLAH	SS CYG	54	9.4	2140449	+432123	L	3	37208	L	245	FO	89092923	232900	000130	402	G C=181,B=34
CVLAH	SS CYG	54	9.4	2140449	+432123	L	3	37208	S	242	FO	89092923	233700	000500	502	G C=210,B=40
LSLKC	HD 206936	49	4.1	2141585	+583301	L	1	16794	L	846	FU	89111606	063000	013000	XX4	G E=3X,C=3.5X,B=55
HCLSP	HD 207647	45	7.0	2147132	+492638	L	3	36814	L	3354	FO	89080913	135900	002100	01	G B=26
LA020	AG PEG	57	08.95	2148361	+122326	L	3	37419	L	01015	FO	89102114	142548	000600	570	V FPM = 1.18 V
LI135	AG PEG	57	08.98	2148362	+122327	H	3	37046	L	00985	FO	89091619	193421	003000	260	V C4, HE2 SATURATED
LA020	AG PEG	57	08.96	2148362	+122327	H	3	37420	L	01001	FO	89102115	151509	001000	140	V FPM = 0.94 V
LA020	AG PEG	57	08.95	2148362	+122327	L	1	16594	L	01009	FO	89102115	155642	000600	601	V FPM=0.90 V
LA020	AG PEG	57	08.94	2148362	+122327	H	3	37476	L	01026	FO	89102816	162402	003000	260	V
LA020	AG PEG	57	08.93	2148362	+122337	H	1	16684	L	01034	FO	89102817	170134	003000	231	V
LA020	AG PEG	57	08.97	2148362	+122357	H	3	37477	L	00991	FO	89102817	174117	018600	382	V
PHCAL	BD+284211	16	10.77	2148560	+283735	L	1	15493	S	00199	FO	89051104	041312	000230	503	V
PHCAL	BD+284211	16	10.77	2148560	+283735	L	1	15493	L	00199	FO	89051104	040713	000050	503	V
PHCAL	BD+284211	16	10.81	2148560	+283735	L	1	15494	S	00192	FO	89051104	054014	000230	503	V
PHCAL	BD+284211	16	10.81	2148560	+283735	L	1	15494	L	00192	FO	89051104	045014	000050	503	V
PHCAL	BD+284211	16	10.85	2148560	+283735	L	1	15495	L	00186	FO	89051105	053247	000230	603	V
PHCAL	BD+284211	16	10.87	2148560	+283735	L	1	15496	L	00182	FO	89051106	060916	000230	603	V
PHCAL	BD+28 4211	16	10.89	2148560	+283735	L	3	36241	L	00180	FO	89051106	064235	000026	500	V
PHCAL	BD+28 4211	16	10.81	2148560	+283734	L	3	36393	L	00192	FO	89060323	230159	000026	500	V
PHCAL	BD+28 4211	16	10.81	2148560	+283734	L	1	15654	L	00000		89060401	010557	000050	501	V
PHCAL	BD+28 4211	16	10.87	2148560	+283734	L	3	36394	L	00183	FO	89060401	011306	000026	500	V
PHCAL	BD+28 4211	16	10.84	2148560	+283734	H	3	36395	L	00188	FO	89060402	022453	004500	500	V
PHCAL	BD+28 4211	16	10.83	2148560	+283734	L	1	15655	L	00190	FO	89060402	021540	000140	701	V
PHCAL	BD+28 4211	16	10.87	2148560	+283734	L	1	15656	L	00183	FO	89060403	031632	000050	501	V
PHCAL	BD+28 4211	16	10.84	2148560	+283734	L	1	15657	L	00187	FO	89060404	041042	000050	501	V
PHCAL	BD+28 4211	16	10.86	2148560	+283734	L	1	15658	L	00185	FO	89060404	044250	000050	501	V
PHCAL	BD+28 4211	16	10.82	2148560	+283734	H	1	15685	L	00191	FO	89060902	020538	006500	401	V
PHCAL	BD+28 4211	16	10.82	2148560	+283734	H	3	36429	L	00191	FO	89060903	031920	004500	500	V
PHCAL	BD+28 4211	16	10.83	2148560	+283734	H	1	15686	L	00189	FO	89060904	041014	004000	401	V
PHCAL	BD+28 4211	16	10.89	2148560	+283735	H	3	37202	L	00179	FO	89092821	215324	004500	501	V
PHCAL	BD+28 4211	16	10.87	2148560	+283735	L	1	16449	S	182	FO	89092822	224749	000230	503	V
PHCAL	BD+28 4211	16	10.87	2148560	+283735	L	1	16449	L	182	FO	89092822	224250	000050	503	V
PHCAL	BD+284211	16	10.86	2148560	+283734	H	3	37292	L	00184	FO	89100920	201318	003400	400	V
PHCAL	BD +28 4211	16	10.5	2148573	+283733	L	1	16505	L	189	FO	89100810	101500	000050	502	G C=200,B=35
PHCAL	BD +28 4211	16	10.5	2148573	+283733	L	3	37278	L			89100810	102000	000026		G
PHCAL	BD +28 4211	16	10.5	2148573	+283734	L	3	37531	L	19	FO	89110703	034900	000026	500	G C=193,B=18
PHCAL	BD +28 4211	16	10.5	2148573	+283734	L	1	16754	L	189	FO	89110703	035400	000050	502	G C=205,B=35
PHCAL	BD +28 4211	16	10.5	2148574	+283734	L	3	36527	L	183	FO	89061615	154300	000026	500	G C=220,B=18
PHCAL	BD +28 4211	16	10.5	2148574	+283734	L	1	15739	L	187	FO	89061615	154700	000050	502	G C=217,B=36
PHCAL	BD +28 4211	16	10.5	2148574	+283734	L	3	36819	L	189	FO	89081011	112200	000026	300	G C=85,B=18
PHCAL	BD +28 4211	16	10.5	2148574	+283734	L	3	36819	L	189	FO	89081011	113300	000078	300	G C=85,B=18
PHCAL	BD +28 4211	16	10.5	2148574	+283734	L	1	16100	L	190	FO	89081011	113900	000050	502	G C=188,B=32
PHCAL	BD +28 4211	16	10.5	2148574	+283734	L	1	16100	S	190	FO	89081011	114700	000230	502	G C=188,B=32
PHCAL	BD +28 4211	16	10.5	2148574	+283734	H	3	36967	L	187	FO	89090900	005000	000026	500	G C=195,B=18

PRO	Object	CL	MAG	R.A.	DEC	D C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
PHCAL	BD +28 4211	16	10.5	2148574	+283734	H 3	36967	S	187	FO	89090900	005700	000118	500 G	C=200,B=18
PHCAL	BD +28 4211	16	10.5	2148574	+283734	L 1	16307	L	188	FO	89090901	010600	000050	502 G	C=200,B=38
PHCAL	BD +28 4211	16	10.5	2148574	+283734	L 1	16307	S	196	FO	89090901	011200	000230	402 G	C=140,B=38
PHCAL	BD +28 4211	16	10.5	2148574	+283734	L 3	37294	L	186	FO	89101005	055200	000026	500 G	C=203,B=18
PHCAL	BD +28 4211	16	10.5	2148574	+283734	L 1	16525	L	184	FO	89101005	055700	000050	502 G	C=193,B=35
HMLDL	HD 207857	27	6.2	2149005	+391806	L 1	15713	L	8143	FO	89061217	172800	000031	503 G	C=207,B=42
HMLDL	HD 207857	27	6.2	2149005	+391806	L 3	36465	L	8088	FO	89061217	174000	000050	500 G	C=172,B=17
CVLPS	S193	63	12.5	2149320	+135243	L 3	37186	L	52	SO	89092505	052600	003000	331 G	E=57,C=60,B=22
CVLPS	S193	63	12.5	2149320	+135243	L 1	16419	L	50	SO	89092506	060400	003000	442 G	E=177,C=150,B=38
CVLPS	S 193	63	13.3	2149329	+135246	L 3	37234	L	53	SO	89100206	063900	000700	331 G	E=68,C=72,B=29
CVLPS	S 193	63	13.3	2149329	+135246	L 1	16464	L	54	SO	89100208	085200	005600	404 G	C=170,B=56
CVLPS	S 193	63	13.3	2149329	+135246	L 3	37235	L	59	SO	89100210	102800	006000	332 G	E=112,C=110,B=36
CVLPS	S 193	63	13.3	2149329	+135246	L 1	16465	L	74	SO	89100211	113700	003500	453 G	E=206,C=180,B=43
HCLSP	HD 208253	39	6.6	2151344	+534539	L 1	16704	L	5393	FO	89103110	105800	000124	X02 G	C=1.5X,B=35
HCLSP	HD 208253	39	6.6	2151344	+534539	L 3	37491	L	5396	FO	89103111	110400	000300	400 G	C=165,B=18
LQ140	PKS 2152-69	73	14.00	2152593	-695537	L 1	16010	L	00000	BO	89072820	203651	037000	305 V	BLOB NEAR PKS2152-69
LQ140	PKS2152-69	73	14.00	2153002	-695533	L 3	36738	L	00000	BO	89072520	201221	039500	122 V	BLOB NEAR PKS2152-69
LQ140	PKS2152-69	73	14.00	2153002	-695533	L 1	16005	L	00000	BO	89072719	195604	041100	204 V	BLOB NEAR PKS2152-69
HCLSP	HD 208606	45	6.1	2153507	+611815	L 3	36812	L	7633	FO	89080909	095800	005000	202 G	C=37,B=31
HCLSP	HD 208606	45	6.1	2153507	+611815	L 1	16094	L	7793	FO	89080910	105600	002800	552 G	E=208,C=210,B=38
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 3	37451	L	86	SO	89102421	214700	003000	309 G	C=204,B=136
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 1	16640	L	91	SO	89102422	222600	003000	G	B=3X
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 3	37452	L	89	SO	89102423	230400	003000	309 G	C=210,B=137
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 1	16641	L	91	SO	89102423	234200	001000	309 G	C=218,B=167
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 3	37453	L	94	SO	89102500	001300	003000	309 G	C=204,B=132
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 1	16642	L	95	SO	89102500	005100	001000	309 G	C=220,B=164
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 3	37454	L	89	SO	89102501	012300	003000	309 G	C=180,B=125
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 1	16643	L	87	SO	89102502	020100	001000	309 G	C=198,B=150
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 3	37455	L	85	SO	89102502	023300	003000	309 G	C=179,B=109
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 1	16644	L			89102503	031200	001000	G	
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 3	37456	L	83	SO	89102503	034100	003000	309 G	C=190,B=142
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 3	37460	L	60	SO	89102521	212900	004500	303 G	C=108,B=41
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 1	16655	L	62	SO	89102522	222200	001500	305 G	C=130,B=67
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 3	37461	L	61	SO	89102522	225300	006000	303 G	C=132,B=47
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 3	37462	L	63	SO	89102600	003300	006000	303 G	C=130,B=47
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 1	16656		63	SO	89102600	003500	002000	306 G	C=135,B=72
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 1	16657	L	60	SO	89102601	014100	002000	305 G	C=135,B=69
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 3	37463	L	58	SO	89102602	021200	006000	303 G	C=130,B=42
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 1	16658	L	59	SO	89102603	032000	002000	305 G	C=137,B=67
BLLCU	PKS 2155-304	87	13.0	2155580	-302754	L 3	37464	L	58	SO	89102603	034700	006000	304 G	C=128,B=53
LQ029	PKS 2155-3	87	13.23	2155581	-302751	L 3	37247	L	00089	SO	89100414	142050	012000	500 V	
LQ029	PKS 2155-3	87	13.87	2155581	-302751	L 1	16477	L	00050	SO	89100416	163234	006000	501 V	
LQ029	PKS 2155-3	87	13.99	2155581	-302751	L 3	37248	L	00045	SO	89100417	174009	012000	400 V	
LQ029	PKS 2155-3	87	13.87	2155581	-302751	L 1	16478	L	00050	SO	89100419	194933	006000	501 V	
LQ029	PKS2155-30	87	13.42	2155582	-302751	L 3	37241	L	00075	SO	89100314	143238	012000	400 V	
LQ029	PKS2155-30	87	13.87	2155582	-302751	L 1	16471	L	00050	SO	89100316	163923	006000	501 V	
LQ029	PKS2155-30	87	13.90	2155582	-302751	L 3	37242	L	00049	SO	89100317	174703	012000	400 V	
LQ029	PKS2155-30	87	13.90	2155582	-302751	L 1	16472	L	00049	SO	89100319	195346	005500	501 V	
KQ175	PKS2155-30	87	13.87	2155582	-302752	L 3	37272	L	00050	SO	89100716	160604	010700	400 V	
KQ175	PKS2155-30	87	13.94	2155582	-302752	L 1	16500	L	00047	SO	89100717	175904	004600	401 V	PREAD

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
LQ029	PKS2155-30	87	13.00	2155582	-302751	L	3	37298	L	00000	BO	89101115	154155	012000	400	V
LQ029	PKS2155-30	87	13.00	2155582	-302751	L	1	16535	L	00000	BO	89101117	175202	006000	401	V
LQ029	PKS2155-30	87	13.00	2155582	-302751	L	3	37299	L	00000	BO	89101118	185959	010500	300	V
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37238	L		BO	89100305	054400	006000	301	G C=94,B=25
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16468	L		BO	89100306	065000	006000	503	G C=198,B=45
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37239	L		BO	89100307	075600	006000	300	G C=100,B=20
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16469	L			89100309	090100	006000	503	G C=206,B=48
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37240	L		BO	89100310	100900	006000	301	G C=118,B=23
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16470	L		BO	89100311	111800	004500	403	G C=180,B=44
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37244	L		BO	89100405	055100	006000	300	G C=90,B=20
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16474	L		BO	89100406	065800	006000	403	G C=190,B=44
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37245	L		BO	89100408	080200	006000	301	G C=102,B=23
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16475	L		BO	89100409	090700	006000	504	G C=208,B=55
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37246	L		BO	89100410	101100	006000	301	G C=105,B=23
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16476	L		BO	89100411	111500	004500	403	G C=173,B=43
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16479	L		BO	89100505	054800	006000	503	G C=200,B=44
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37250	L		BO	89100506	065300	006000	301	G C=96,B=23
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16480	L		BO	89100507	075800	006000	404	G C=190,B=52
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37251	L		BO	89100509	090300	006000	301	G C=100,B=29
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16481	L		BO	89100510	100800	005500	404	G C=197,B=52
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37252	L			89100511	110700	004900	301	G C=88,B=22
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16487	L		BO	89100605	055100	006000	403	G C=192,B=43
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37258	L		BO	89100606	065600	006000	301	G C=88,B=24
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16488	L		BO	89100608	080000	006000	404	G C=200,B=52
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37259	L		BO	89100609	090400	006000	301	G C=103,B=30
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	1	16489	L		BO	89100610	100900	006000	504	G C=208,B=53
QSLHM	PKS 2155-304	87	13.0	2155584	-302755	L	3	37260	L		BO	89100611	111300	003900	301	G C=66,B=25
LDKDB	HD 208906	41	6.9	2156278	+293443	L	1	15557	L	3897	FO	89052018	184300	000245	503	G C=225,B=43
LDKDB	HD 208906	41	6.9	2156278	+293443	L	1	15557	S	3878	FO	89052019	190100	001820	?03	G C=10X,B=41
LA033	HD235679	23	09.33	2156434	+541443	L	1	15919	L	00724	FO	89071423	230845	001500	801	V
LA033	HD235679	23	09.31	2156434	+541443	L	3	36679	L	00732	FO	89071423	234507	002800	700	V
LA033	HD235679	23	09.35	2156434	+541443	L	1	15920	L	00711	FO	89071500	003013	000500	700	V PREAD
CCKTA	HD 209100	46	4.69	2159309	-565933	L	1	16086	L	22249	FO	89080709	094100	006000	??4	G E=10X,C=10X,B=51
BEKTS	HD 209409	26	4.7	220043	+252261	H	3	36201	L	290	FU	89050615	154100	000500	553	G E=206,C=230,B=41
BEKTS	HD 209409	26	4.7	2200437	-022351	H	1	15464	L	315	FU	89050615	155600	000130	403	G C=180,B=43
BEKTS	HD 209409	26	4.7	2200437	-022351	H	1	15666	L	24844	FO	89060615	152900	000145	503	G C=200,B=42
BEKTS	HD 209409	26	4.7	2200437	-022351	H	3	36402	L	24466	FO	89060615	153600	000430	503	G C=218,B=42
KA006	HD209975	13	05.50	2203363	+620210	H	3	36517	L	18778	FO	89061500	001936	000500	501	V
KA006	HD209975	13	05.46	2203363	+620210	H	3	36503	L	19314	FO	89061501	010130	000500	500	V
KA006	HD209975	13	05.52	2203363	+620210	H	3	36521	L	18536	FO	89061503	031220	000500	501	V
KA006	HD209975	13	05.39	2203363	+620210	H	3	36507	L	20277	FO	89061504	040841	000500	500	V
KA006	HD209975	13	05.54	2203363	+620210	H	3	36533	L	18311	FO	89061700	002742	000500	501	V
KA006	HD209975	13	05.51	2203363	+620210	H	3	36537	L	18715	FO	89061703	035839	000500	501	V
ISKJS	BD +07 4795	20	10.7	2204349	+080011	L	3	36373	L	149	FO	89053116	163900	000424	401	G C=160,B=21
ISKJS	BD +07 4795	20	10.7	2204349	+080011	L	1	15631	L	150	FO	89053116	164800	000347	503	G C=240,B=50
ISKJS	BD +07 4795	20	10.7	2204349	+080011	L	3	36374	L	153	FO	89053117	172900	000808	X04	G C=1.5X,B=60
ISKJS	BD +07 4795	20	10.7	2204349	+080011	L	1	15632	L	155	FO	89053118	181500	000005	X07	G C=2X,B=86
ACLFB	HD 210049	30	4.5	2205283	-331400	L	3	36620	L	314	FU	89070613	130300	000033	X00	G C=1.5X,B=17
ACLFB	HD 210049	30	4.5	2205283	-331400	H	3	36621	L	324	FU	89070613	133200	004000	X03	G C=3X,B=50
IMLLH	HD 210121	21	7.5	2205360	-034634	L	3	37471	L	2007	FO	89102712	124200	000700	01	G B=22

PRO	Object	CL	MAG	R.A.	DEC	D C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
ISKJS	HD 210191	20	5.7	2206146	-184555	L 3	36339	L	11755	FO	89052615	154300	000002	300 G	C=108,B=18
ISKJS	HD 210191	20	5.7	2206146	-184555	L 1	15601	L	11230	FO	89052615	154900	000002	402 G	C=170,B=32
ISKJS	HD 210191	20	5.7	2206146	-184555	L 3	36340	L	13339	FO	89052617	171600	000008	X00 G	C=2X,B=18
ISKJS	HD 210191	20	5.7	2206146	-184555	L 1	15602	L	11380	FO	89052617	172100	000003	502 G	C=237,B=35
ISKJS	HD 210191	20	5.7	2206146	-184555	L 1	15630	L	11819	FO	89053115	153400	000005	X02 G	C=2X,B=34
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16246	L	7266	FO	89083022	223300	006000	443 G	E=177,C=155,B=42
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36906	L	7503	FO	89083023	234900	003000	331 G	E=60,C=47,B=24
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16247	L	7478	FO	89083100	002600	006000	443 G	E=153,C=160,B=43
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36907	L	7478	FO	89083101	013600	003000	331 G	E=56,C=50,B=24
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16248	L	7387	FO	89083102	021500	006000	443 G	E=166,C=164,B=43
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36908	L	7626	FO	89083103	032300	003000	331 G	E=54,C=51,B=25
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16249	L	7810	FO	89083104	040200	007000	443 G	E=186,C=184,B=42
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36909	L	8285	FO	89083105	053900	003000	331 G	E=64,C=49,B=25
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16250	L	8130	FO	89083106	061800	006000	443 G	E=176,C=155,B=45
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36910	L	8240	FO	89083107	072700	003000	331 G	E=59,C=60,B=27
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16251	L	8339	FO	89083108	081000	006000	444 G	E=177,C=157,B=51
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36911	L	8371	FO	89083109	091900	003000	322 G	E=52,C=66,B=33
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16252	L	8407	FO	89083109	095800	006000	349 G	E=230,C=210,B=115
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36912	L	8162	FO	89083111	110800	003000	335 G	E=106,C=108,B=67
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16253	L	7920	FO	89083111	114600	003000	339 G	E=226,C=222,B=161
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36913	L	771	FO	89083112	123000	003000	336 G	E=115,C=120,B=79
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16254	L	7541	FO	89083113	131100	003000	339 G	E=169,C=171,B=103
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36914	L	7394	FO	89083113	135000	003000	332 G	E=77,C=75,B=38
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16259	L	7427	FO	89083122	222700	006000	452 G	E=200,C=165,B=37
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36919	L	7440	FO	89083123	233500	003000	331 G	E=73,C=55,B=28
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16260	L	7579	FO	89090100	001500	006000	453 G	E=202,C=160,B=43
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36920	L	7958	FO	89090101	012300	003000	331 G	E=81,C=57,B=28
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16261	L	8023	FO	89090102	020000	006000	453 G	E=203,C=168,B=42
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36921	L	8180	FO	89090103	030900	003000	331 G	E=50,C=54,B=28
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16262	L	8160	FO	89090103	034800	006000	443 G	E=180,C=162,B=42
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36922	L	8172	FO	89090104	045600	003000	331 G	E=83,C=53,B=28
RSLFW	HD 210334	39	6.1	2206394	+452944	H 1	16263	L	8131	FO	89090105	053300	005000	443 G	E=165,C=151,B=45
RSLFW	HD 210334	39	6.1	2206394	+452944	L 3	36923	L	7899	FO	89090106	062800	002000	330 G	E=49,C=55,B=16
PHCAL	T-FLOOD	98	0.0	2206394	+452944	L 1	16264	S			89090107	074600	000025	?9 G	E=10X,B=103
PHCAL	WAVCAL	98	0.0	2206394	+452944	L 1	16264	S			89090107	074700	000001	?9 G	E=10X,B=103
PHCAL	T-FLOOD	98	0.0	2206394	+452944	H 1	16265	S			89090108	081600	000025	?9 G	E=50X,B=104
PHCAL	WAVCAL	98	0.0	2206394	+452944	H 1	16265	S			89090108	081800	000016	?9 G	E=50X,B=104
PHCAL	NULL	98	0.0	2206394	+452944	H 2	18328				89090109	090800	000000	01 G	B=22
PHCAL	T-FLOOD	98	0.0	2206394	+452944	L 3	36924	S			89090109	092700	000005	?9 G	E=20X,B=104
PHCAL	WAVCAL	98	0.0	2206394	+452944	L 3	36924	S			89090109	092900	000002	?9 G	E=20X,B=104
PHCAL	T-FLOOD	98	0.0	2206394	+452944	H 3	36925	S			89090109	095300	000005	?9 G	E=60X,B=125
PHCAL	WAVCAL	98	0.0	2206394	+452944	H 3	36925	S			89090109	095500	000200	?9 G	E=60X,B=125
PHCAL	T-FLOOD	98	0.0	2206394	+452944	L 2	18329	S			89090110	104100	000010	?9 G	E=10X,B=102
PHCAL	WAVCAL	98	0.0	2206394	+452944	L 2	18329	S			89090110	104200	000001	?9 G	E=10X,B=102
PHCAL	T-FLOOD	98	0.0	2206394	+452944	H 2	18330	S			89090111	110700	000010	?9 G	E=50X,B=124
PHCAL	WAVCAL	98	0.0	2206394	+452944	H 2	18330	S			89090111	110800	000022	?9 G	E=50X,B=124
LC035	HD 210334	39	06.70	2206395	+452945	L 3	36902	L	07421	FO	89083015	154011	003000	330 V	
RSLFW	HD 210334	39	6.1	2206395	+452945	H 1	16266	L	7400	FO	89090200	001400	005000	443 G	E=141,C=148,B=41
LC035	HD 210334	39	06.78	2206395	+452945	H 1	16243	L	06930	FO	89083016	162525	007000	451 V	
RSLFW	HD 210334	39	6.1	2206395	+452945	L 3	36927	L	7414	FO	89090201	011200	003000	330 G	E=60,C=66,B=20

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
LC035	HD 210334	39	07.09	2206395	+452945	L	3	36903	L	05277	FO	89083017	174249	004000	330	V
RSLFW	HD 210334	39	6.1	2206395	+452945	L	1	16267	L	7532	FO	89090201	014900	006000	443	G E=174,C=166,B=41
LC035	HD 210334	39	07.29	2206395	+452945	H	1	16244	L	04439	FO	89083018	183042	007500	451	V
LC035	HD 210334	39	07.29	2206395	+452945	L	3	36904	L	04461	FO	89083019	195359	195339	130	V
LC035	HD 210334	39	07.28	2206395	+452945	H	1	16245	L	04474	FO	89083020	203819	006000	341	V
LC035	HD 210334	39	06.91	2206395	+452945	L	3	36905	L	06163	FO	89083021	214930	003000	330	V
LC035	HD 210334	39	06.68	2206395	+452945	H	1	16255	L	07506	FO	89083114	142909	007000	451	V
LC035	HD 210334	39	06.66	2206395	+452945	L	3	36915	L	07660	FO	89083115	155945	004000	330	V
LC035	HD 210334	39	06.78	2206395	+452945	H	1	16256	L	06919	FO	89083116	165222	007000	451	V
LC035	HD 210334	39	06.95	2206395	+452945	L	3	36916	L	05923	FO	89083118	181125	003000	330	V
LC035	HD 210334	39	06.98	2206395	+452945	H	1	16257	L	05822	FO	89083118	184828	006000	440	V
LC035	HD 210334	39	06.94	2206395	+452945	L	3	36917	L	06013	FO	89083119	195747	003000	330	V
LC035	HD 210334	39	06.88	2206395	+452945	H	1	16258	L	06348	FO	89083120	203714	006000	441	V
LC035	HD 210334	39	06.75	2206395	+452945	L	3	36918	L	07093	FO	89083121	214732	003000	330	V
SAKCW	HD 210418	30	3.6	220740	+055704	L	3	36316	L	778	FU	89052117	170500	000019	500	G C=204,B=17
SAKCW	HD 210418	30	3.6	220740	+055704	L	1	15565	L	792	FU	89052117	171400	000007	502	G C=202,B=32
USSBS	HD 210745	47	3.36	2209068	+575714	L	1	16626	L	892	FU	89102323	232900	001330	336	G E=170,C=130,B=73
KA006	HD210839	13	05.45	2209478	+591001	H	3	36502	L	19460	FO	89061500	000204	000900	500	V
KA006	HD210839	13	05.49	2209478	+591001	H	3	36520	L	18912	FO	89061502	022739	000900	501	V
KA006	HD210839	13	05.42	2209478	+591001	H	3	36506	L	19793	FO	89061503	031956	000900	500	V
KA006	HD210839	13	05.49	2209478	+581001	H	3	36516	L	18948	FO	89061523	232835	000900	501	V
KA006	HD210839	13	05.30	2209478	+591001	H	3	36523	L	21371	FO	89061604	043935	000900	501	V
KA006	HD210839	13	05.56	2209478	+591001	H	3	36532	L	18076	FO	89061623	233505	000900	501	V
KA006	HD210839	13	05.57	2209478	+591001	H	3	36536	L	17919	FO	89061703	030554	000900	501	V
LA015	HD210839	15	05.49	2209485	+591002	H	3	37395	L	18920	FO	89101919	190133	001000	602	V
OBLJN	HD 210839	15	5.0	2209485	+591002	H	3	37330	L	18778	FO	89101707	072500	001000	502	G C=218,B=39
OBLJN	HD 210839	15	5.0	2209485	+591002	H	3	37333	L	18507	FO	89101710	100900	001000	502	G C=215,B=38
LA015	HD210839	15	05.51	2209486	+591003	H	3	37336	L	18678	FO	89101713	130020	001000	500	V
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37348	L	19183	FO	89101722	220900	001000	503	G C=220,B=41
LA015	HD210839	15	05.51	2209486	+591003	H	3	37339	L	18707	FO	89101715	151129	001000	500	V
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37351	L	19455	FO	89101800	003700	001000	503	G C=222,B=41
LA015	HD210839	15	05.50	2209486	+591003	H	3	37342	L	18828	FO	89101717	171448	001000	500	V
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37354	L	19173	FO	89101803	030200	001000	503	G C=222,B=41
LA015	HD210839	15	05.48	2209486	+591003	H	3	37345	L	19026	FO	89101719	191747	001000	500	V
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37357	L	18670	FO	89101805	052300	001000	502	G C=230,B=40
LA015	HD210839	15	05.48	2209486	+591003	H	3	37397	L	19116	FO	89101920	204613	000800	402	V
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37360	L	19270	FO	89101807	075300	001000	503	G C=230,B=41
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37363	L	19305	FO	89101810	102500	001000	503	G C=222,B=42
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37366	L	18764	FO	89101812	124400	001000	503	G C=230,B=42
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37372	L	19222	FO	89101821	211500	001000	503	G C=225,B=41
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37375	L	19204	FO	89101823	234000	001000	503	G C=225,B=41
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37378	L	18759	FO	89101902	020600	001000	503	G C=226,B=42
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37381	L	19476	FO	89101904	043600	001000	502	G C=224,B=40
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37384	L	19788	FO	89101906	065800	001000	503	G C=220,B=42
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37387	L	18670	FO	89101909	095000	001000	503	G C=230,B=42
OBLJN	HD 210839	15	5.0	2209486	+591003	H	3	37390	L	18295	FO	89101912	121400	001000	503	G C=235,B=41
LA015	HD210839	15	05.51	2209490	+591003	H	3	37369	L	18757	FO	89101818	185541	001000	500	V
ISKJS	BD +16 4689	20	10.4	2210180	+170236	L	3	36377	L	199	FO	89053122	221500	000241	400	G C=158,B=18
ISKJS	BD +16 4689	20	10.4	2210180	+170236	L	1	15635	L	205	FO	89053122	222200	000229	502	G C=215,B=32
ISKJS	HD 212076	20	5.0	2219033	+115710	L	1	15603	L	20474	FO	89052618	183900	000002	X02	G C=2X,B=32

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
ISKJS	HD 212076	20	5.0	2219033	+115710	L	3	36341	L	20640	FO	89052618	184400	000002	500 G	C=220,B=18
ISKJS	HD 212076	20	5.0	2219033	+115710	L	3	36344	L	24690	FO	89052622	223800	000004	X00 G	C=3X,B=18
LI012	HD 212571	26	04.70	2222434	+010723	H	3	36651	L	25361	FO	89071000	004759	000130	600 V	
BEKGP	HD 212571	26	4.7	2222434	+010723	H	3	36223	L	25482	FO	89050819	194700	000115	502 G	C=204,B=39
LI012	HD 212571	26	04.70	2222434	+010723	L	1	15891	L	24996	FO	89071001	012847	00000129	801 V	
BEKGP	HD 212571	26	4.7	2222434	+010723	L	3	36224	L	24808	FO	89050820	202000	000001	500 G	C=230,B=18
LI012	HD 212571	26	04.70	2222434	+010723	L	3	36652	L	25760	FO	89071001	015634	00000103	600 V	
LI012	HD212571	26	04.97	2222434	+010723	L	3	37282	L	00304	FU	89100816	163332	000001	500 V	
LI012	HD212571	26	04.97	2222434	+010723	L	1	16510	L	00304	FU	89100816	163733	000001	600 V	
LI012	HD212571	26	04.88	2222434	+010723	H	3	37283	L	00330	FU	89100817	170423	000130	500 V	
LQ170	3C 446	85	17.00	2223110	-051216	L	1	15998	L	00000	BO	89072620	202218	038500	335 V	
BNLWF	LKHA 233	58	13.8	2232280	+402431	L	1	15917	L	56	SO	89071416	163100	014000	304 G	C=80,B=52
LSKHB	HD 213985	33	8.8	223246	+173057	H	1	15497	L	842	FO	89051108	083900	037000	408 G	C=202,B=96
IGLBS	HD 214168	20	5.70	2233385	+392230	H	3	36478	L	13225	FO	89061315	155100	000220	402 G	C=170,B=35
IGLBS	HD 214168	20	5.70	2233385	+392230	H	3	36479	L	12679	FO	89061316	162600	000200	402 G	C=155,B=32
IGLBS	HD 214168	20	5.70	2233385	+392230	H	3	36480	L	15292	FO	89061317	170600	000210	402 G	C=170,B=36
IGLBS	HD 214168	20	5.7	2233386	+392230	H	3	36901	L	12276	FO	89083014	143100	000400	503 G	C=240,B=41
LA148	PHL346	23	11.76	2234562	-185529	L	3	37224	L	00331	SO	89100115	154201	001000	600 V	
LA148	PHL346	23	11.71	2234562	-185529	L	3	37225	L	00344	SO	89100116	162951	001000	600 V	
LA148	PHL346	23	11.72	2234562	-185529	L	3	37226	L	00342	SO	89100117	171337	001000	600 V	
LA148	PHL346	23	11.68	2234562	-185529	L	3	37227	L	00356	SO	89100117	175329	001000	600 V	
LA148	PHL 346	23	11.75	2234562	-185529	L	3	37228	L	00354	SO	89100118	183345	001000	600 V	
LA148	PHL346	23	11.66	2234562	-185529	L	3	37229	L	00361	SO	89100119	191245	001000	600 V	
LA148	PHL346	23	11.64	2234562	-185529	L	3	37230	L	00367	SO	89100119	195402	001000	500 V	
LA148	PHL346	23	11.63	2234562	-185529	L	3	37231	L	00370	SO	89100120	203431	001000	500 V	
KA006	HD214680	12	05.15	2237008	+384722	H	3	36501	L	23385	FO	89061423	231012	000100	500 V	
KA006	HD214680	12	05.15	2237008	+384722	H	3	36519	L	23417	FO	89061501	014251	000100	501 V	
KA006	HD214680	12	05.15	2237008	+384722	H	3	36505	L	23352	FO	89061502	024606	000100	500 V	
KA006	HD214680	12	05.19	2237008	+384722	H	3	36515	L	22851	FO	89061522	223624	000100	501 V	
KA006	HD214680	12	05.02	2237008	+384722	H	3	36531	L	25212	FO	89061622	224500	000100	501 V	
KA006	HD214680	12	05.22	2237008	+384722	H	3	36535	L	22483	FO	89061702	021636	000100	501 V	
PHCAL	HD214680	13	05.07	2237010	+384722	L	1	15879	L	24502	FO	89070823	233635	000001	601 V	
PHCAL	HD214680	13	05.06	2237010	+384722	L	1	15880	L	24623	FO	89070900	000857	000001	601 V	
PHCAL	HD214680	13	05.06	2237010	+384722	L	1	15881	L	24520	FO	89070900	004431	000001	601 V	
PHCAL	HD214680	13	05.06	2237010	+384722	L	1	15882	L	24430	FO	89070901	011411	000000	401 V	
PHCAL	HD214680	13	05.06	2237010	+384722	L	1	15883	L	23901	FO	89070901	014643	000000	401 V	
PHCAL	HD214680	13	05.06	2237010	+384722	L	1	15884	L	25068	FO	89070902	021657	000000	401 V	
PHCAL	HD214680	13	05.06	2237010	+384722	L	1	15885	L	24317	FO	89070902	024635	000000	401 V	PREAD
BCLNE	HD 214975	53	8.7	2238530	+563406	L	3	36680	L	863	FO	89071504	041600	035000	03 G	B=45
BCLNE	HD 214975	53	8.7	2238530	+563406	L	1	15922	L	906	FO	89071508	082500	004500	402 G	C=151,B=40
ISKJS	HD 214930	20	7.4	2239020	+233506	L	3	36342	L	3305	FO	89052620	200700	000011	400 G	C=142,B=18
ISKJS	HD 214930	20	7.4	2239020	+233506	L	1	15604	L	3017	FO	89052620	201300	000010	502 G	C=228,B=32
ISKJS	HD 214930	20	7.4	2239020	+233506	L	3	36343	L	2921	FO	89052621	212000	000034	X00 G	C=2X,B=17
ISKJS	HD 214930	20	7.4	2239020	+233506	L	1	15605	L	2929	FO	89052621	212500	000021	X02 G	C=2X,B=32
SAKCW	HD 215733	23	7.2	224435	+165807	L	1	15560	L	3128	FO	89052022	222200	000032	502 G	C=210,B=35
SAKCW	HD 215733	23	7.2	224435	+165807	L	3	36311	L	3091	FO	89052022	223300	000100	500 G	C=225,B=18
ACLFB	HD 215789	30	3.5	2245327	-513449	L	3	36622	L	790	FU	89070614	144800	000030	?00 G	C=6,B=17
ACLFB	HD 215789	30	3.5	2245327	-513449	H	3	36623	L	800	FU	89070615	151900	003530	X04 G	C=6X,B=58
KI078	DKLAC	55	16.00	2247404	+530124	L	3	36701	L	00000	BO	89071820	201203	030000	303 V	
KI078	DK LAC	55	16.00	2247405	+530125	L	1	15956	L	00000	BO	89071901	011909	008800	302 V	

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
LC176	HR8752	45	05.60	2257581	+564036	H	3	36610	L	17547	FO	89070319	195258	041500	302	V
AGLGM	MRK1126	84	15.2	2258100	-131114	L	3	36653	L		BO	89071003	032100	042000	335	G E=111,C=105,B=66
AGLGM	MRK1126	84	15.2	2258100	-131114	L	3	36659	L		BO	89071103	035700	041400	336	G E=116,C=102,B=72
LC095	GL887	48	07.74	2302387	-360830	L	3	37205	L	02982	FO	89092916	161427	003000	136	V LYA=198
LC095	GL887	48	07.70	2302387	-360830	L	1	16451	L	03089	FO	89092916	165313	002000	99X	V HALF IMAGE SATURATED
LC095	GL887	48	07.73	2302387	-360830	L	3	37206	L	03008	FO	89092917	172532	004000	138	V
LC095	GL887	48	07.73	2302387	-360830	L	1	16452	L	03002	FO	89092918	182114	000500	136	V
LC095	GL887	48	07.70	2302387	-360830	L	3	37207	L	03091	FO	89092919	190302	004000	138	V STRONG SOLAR FLARE
LC137	HD218329	49	04.90	2304290	+090821	L	3	37547	L	00322	FU	89111011	114358	018000	201	V XSPREP @ 10:35
LC123	HD218356	47	05.22	2304402	+251152	H	1	16760	L	00236	FU	89110812	122825	037900	683	V
LC123	HD218356	47	05.24	2304404	+251153	H	1	16608	L	22212	FO	89102214	141302	002000	142	V
LC123	HD218356	47	05.20	2304404	+251153	H	1	16609	L	22681	FO	89102215	151022	032500	888	V
LC110	GL 890	48	11.34	2305410	-154048	L	1	16724	L	00120	FO	89110216	164402	003000	341	V
LC110	GL 890	48	11.32	2305410	-154048	L	1	16733	L	00122	FO	89110313	135629	003000	031	V
LC110	GL 890	48	11.35	2305410	-154048	L	3	37512	L	00119	FO	89110314	143640	015000	111	V NO SPECTRUM VISIBLE
HCLSP	HD 218600	39	8.4	2306251	+563750	L	3	36813	L	1046	FO	89080911	114100	008000	203	G C=43,B=41
HCLSP	HD 218600	39	8.4	2306251	+563750	L	1	16095	L	1021	FO	89080913	130600	003500	404	G C=200,B=52
HCLSP	HD 218640	39	4.7	2307148	-224344	L	1	16061	L	23837	FO	89080411	114700	000018	502	G C=200,B=32
HCLSP	HD 218640	39	4.7	2307148	-224344	L	3	36795	L	24049	FO	89080411	115400	000055	500	G C=190,B=18
CVLIM	IP PEG	54	12	2320385	+180830	L	3	36660	L	133	SO	89071115	153100	001000	241	G E=136,C=41,B=21
CVLIM	IP PEG	54	12	2320385	+180830	L	1	15900	L	157	SO	89071116	160600	001800	343	G E=164,C=108,B=41
CVLIM	IP PEG	54	12	2320385	+180830	L	3	36661	L	166	SO	89071116	163500	001500	341	G E=169,C=45,B=24
CVLIM	IP PEG	54	12	2320385	+180830	L	1	15901	L	110	SO	89071117	173100	002200	332	G E=91,C=76,B=35
CVLIM	IP PEG	54	12	2320385	+180830	L	3	36662	L	108	SO	89071118	180800	003400	241	G E=166,C=41,B=23
CVLIM	IP PEG	54	12	2320385	+180830	L	3	36671	L	17129	SO	89071313	133100	003000	341	G E=149,C=49,B=26
CVLIM	IP PEG	54	12	2320385	+180830	L	1	15909	L	93	SO	89071314	141600	002000	402	G C=152,C=110,B=38
CVLIM	IP PEG	54	12	2320385	+180830	L	3	36672	L	125	SO	89071314	145600	003500		G E=157,C=54
CVLIM	IP PEG	54	12	2320385	+180830	L	1	15910	L	101	SO	89071315	155500	002500		G E=190,C=115
CVLIM	IP PEG	54	12	2320385	+180830	L	3	36673	L	125	SO	89071316	163700	004000	352	G E=191,C=126,B=36
CVLIM	IP PEG	54	12	2320385	+180830	L	1	15911	L	101	SO	89071317	174600	002500	352	G E=190,C=115,B=39
CVLIM	IP PEG	54	12	2320385	+180830	L	3	36674	L	111	SO	89071318	181800	002300	340	G E=162,C=48,B=20
CVLIM	IP PEG	54	12	2320385	+180830	L	3	36681	L	116	SO	89071515	150500	004000	341	G E=165,C=50,B=28
CVLIM	IP PEG	54	12	2320385	+180830	L	3	36682	L	64	SO	89071516	163100	002300	251	G E=186,C=46,B=27
CVLIM	IP PEG	54	12	2320385	+180830	L	1	15924	L	87	SO	89071517	173300	002500	342	G E=184,C=116,B=35
CVLIM	IP PEG	54	12	2320385	+180830	L	3	36683	L	90	SO	89071518	180800	002700	351	G E=209,C=46,B=24
CVLIM	IP PEG	54	14.0	2320385	+180831	L	3	36694	L	32	SO	89071805	051100	003400	30	G E=72,B=18
CVLIM	IP PEG	54	14.0	2320385	+180831	L	1	15950	L	28	SO	89071806	060100	002500	332	G E=94,C=65,B=38
CVLIM	IP PEG	54	14.0	2320385	+180831	L	3	36695	L	36	SO	89071806	064300	007500	51	G E=180,B=22
CVLIM	IP PEG	54	14.0	2320385	+180831	L	1	15951	L	30	SO	89071808	082300	002500	332	G E=89,C=65,B=35
CVLIM	IP PEG	54	14.0	2320385	+180831	L	3	36696	L	37	SO	89071808	085800	008300	241	G E=174,C=44,B=30
LI138	DX AND	54	13.41	2327216	+432831	L	3	37681	L	00076	SO	89112511	114444	003000	330	V
LI138	DX AND	54	12.92	2327216	+432831	L	3	37686	L	00117	SO	89112613	135919	004500	540	V
LI138	DX AND	54	12.92	2327216	+432831	L	1	16842	L	00117	SO	89112614	145251	002000	501	V
LI138	DX AND	54	12.91	2327216	+432831	L	3	37687	L	00118	SO	89112615	152520	004500	540	V
LI138	DX AND	54	12.87	2327216	+432831	L	1	16843	L	00123	SO	89112616	161900	002000	501	V
LI138	DX AND	54	12.88	2327216	+432831	L	3	37688	L	00122	SO	89112616	165628	004500	540	V
LI138	DX AND	54	12.87	2327216	+432831	L	1	16844	L	00123	SO	89112617	175108	002000	501	V
LI138	DX AND	54	12.84	2327216	+432831	L	3	37689	L	00126	SO	89112618	182234	002700	430	V PREAD
LI138	DX AND	54	13.39	2327217	+432832	L	1	16835	L	00077	SO	89112512	122414	002000	401	V
LI138	DX AND	54	13.39	2327217	+432832	L	3	37682	L	00077	SO	89112513	130009	006000	440	V

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmmsstt	ECC	Comment
LI138	DK AND	54	13.41	2327217	+432832	L	1	16836	L	00076	SO	89112514	140857	002000	401 V	
LI138	DK AND	54	13.38	2327217	+432832	L	3	37683	L	00078	SO	89112514	144023	006000	440 V	
LI138	DK AND	54	13.38	2327217	+432832	L	1	16837	L	00078	SO	89112515	154916	002000	400 V	
LI138	DK AND	54	13.38	2327217	+432832	L	3	37684	L	00078	SO	89112516	162211	006000	430 V	
LI138	DK AND	54	13.35	2327217	+432832	L	1	16838	L	00080	SO	89112517	173050	002000	400 V	
LI138	DK AND	54	13.39	2327218	+432832	L	3	37685	L	00077	SO	89112518	180645	004000	440 V	
LI046	Z AND	57	10.72	2331150	+483231	L	3	36612	L	00209	FO	89070422	224545	001200	360 V	
LI046	Z AND	57	10.68	2331150	+483231	L	1	15849	L	00216	FO	89070423	230531	002500	560 V	
LI046	Z AND	57	10.69	2331150	+483231	L	3	36613	L	00214	FO	89070423	234718	006000	570 V	
LI046	Z AND	57	10.67	2331150	+483231	L	1	15850	L	00218	FO	89070500	005430	001500	461 V	
LI046	Z AND	57	10.66	2331150	+483231	H	3	36614	L	00220	FO	89070501	012647	008000	150 V	
PHCAL	HD221650	57	10.91	2331153	+483232	H	3	37588	L	00176	FO	89111412	121013	036000	161 V	SERENDIPITY EXPOSURE
PHCAL	HD 221650	57	11.05	2331153	+483231	H	1	16792	L	00155	FO	89111512	121359	039500	266 V	SERENDIPITY
CSLTA	HD 222107	45	4.0	2335064	+461113	H	1	16765	L	647	FU	89110905	055400	000920	352 G	E=206,C=95,B=37
CSLTA	HD 222107	45	4.0	2335064	+461113	H	1	16766	L	610	FU	89110906	064800	000920	353 G	E=237,C=106,B=42
CSLTA	HD 222107	45	4.0	2335064	+461113	H	1	16767	L	566	FU	89110907	074400	005000	4X7 G	E=5X,C=233,B=89
CSLTA	HD 222107	45	4.0	2335064	+461113	H	9	02254	2			89110909	091700	016000	G	
CSLTA	HD 222107	45	4.0	2335064	+461113	L	3	37546	L	598	FU	89111009	092100	003000	332 G	E=109,C=83,B=35
LC114	HD222107	45	04.26	2335065	+461114	H	1	16768	L	00572	FU	89110909	092543	018000	772 V	R.P. (1,-214)
LI036	HX PEG	54	13.48	2337513	+122105	L	3	37458	L	00071	SO	89102517	171548	006000	503 V	READ LO,SS1,260,626,
LI036	HX PEG	54	13.60	2337513	+122105	L	1	16654	L	00064	SO	89102518	185220	002500	408 V	
LI036	HX PEG	54	13.62	2337513	+122105	L	3	37459	L	00063	SO	89102519	193147	006000	503 V	
LC036	HX PEG	54	12.08	2337513	+122105	L	3	37466	L	00062	SO	89102617	173133	006000	501 V	
LC036	HX PEG	54	13.63	2337513	+122105	L	1	16665	L	00058	SO	89102618	183933	003800	403 V	PREAD
LC036	HX PEG	54	12.14	2337513	+122105	L	3	37467	L	00059	SO	89102619	192043	006000	402 V	
SKKAM	R AQR	57		2341142	-153342	L	3	36398	L	825	FO	89060512	121900	004000	3X1 G	E=1.5X,C=50,B=21
SKKAM	R AQRJET	57		2341144	-153334	L	3	36397	L		BO	89060506	065100	020000	3X2 G	E=3X,C=80,B=35
SKKAM	R AQRJET	57		2341144	-153334	L	1	15662	L		BO	89060510	103000	010000	G	E=3X,C=132,B=52
LA033	BD+60 2629	23	10.25	2348119	+603812	L	3	36677	L	00317	FO	89071419	193841	002200	300 V	
LA033	BD+60 2629	23	10.24	2348119	+603812	L	1	15918	L	00320	FO	89071420	201435	001500	500 V	PREAD
LA033	BD+60 2629	23	10.20	2348119	+603812	L	3	36678	L	00331	FO	89071421	211147	009000	500 V	
FKLJL	X 2349-011	47	10.7	2349507	-011255	L	1	15761	L	109	FO	89062015	152600	003000	403 G	C=148,B=45
LC017	HD224085	52	08.20	2352290	+282117	L	3	36850	L	01969	FO	89081514	145605	006000	130 V	DOUBLE EXPOSURE RP1(
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16125	L	1966	FO	89081422	224200	003000	31 G	E=109,B=28
LC017	HD224085	52	09.71	2352290	+282117	H	1	16131	L	02061	FO	89081516	162157	003000	141 V	
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36844	L	2468	FO	89081423	234100	002500	20 G	E=36,B=20
LC017	HD224085	52	08.12	2352290	+282117	L	3	36851	L	02114	FO	89081517	170616	006000	130 V	DOUBLE EXPOSURE
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16126	L	1998	FO	89081501	010000	003000	32 G	E=124,B=39
LC017	HD224085	52	08.07	2352290	+282117	H	1	16132	L	02211	FO	89081518	182245	003000	141 V	
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36845	L	2449	FO	89081501	014100	006000	31 G	E=49,B=25
LC017	HD224085	52	08.07	2352290	+282117	L	3	36852	L	02228	FO	89081519	190526	006000	130 V	DOUBLE EXPOSURE
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36846	L	2657	FO	89081506	063400	006000	22 G	E=48,B=34
LC017	HD224085	52	08.02	2352290	+282117	H	1	16133	L	02321	FO	89081520	202042	003000	141 V	
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16127	L	2172	FO	89081507	075200	003000	32 G	E=132,B=39
LC017	HD224085	52	08.01	2352290	+282117	L	3	36853	L	02346	FO	89081521	210555	006000	130 V	DOUBLE EXPOSURE
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36847	L	2658	FO	89081508	083400	006000	22 G	E=36,B=32
LC017	HD224085	52	08.00	2352290	+282117	H	1	16142	L	02365	FO	89081615	151840	003000	144 V	
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16128	L	2221	FO	89081509	095300	003000	42 G	E=150,B=40
LC017	HD224085	52	07.97	2352290	+282117	L	3	36861	L	02433	FO	89081615	155740	003000	120 V	
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36848	L	2687	FO	89081510	103600	006000	22 G	E=45,B=34

PRO	Object	CL	MAG	R.A.	DEC	D	C	Image	A	FES	MD	Obs.date	Exptim	mmmsstt	ECC	Comment
LC017	HD224085	52	07.95	2352290	+282117	H	1	16143	L	02466	FO	89081616	164108	003000	144	V
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16129	L	2156	FO	89081511	115500	003000	43	G E=157,B=42
LC017	HD224085	52	07.91	2352290	+282117	L	3	36862	L	02570	FO	89081617	174328	006000	121	V DOUBLE EXPOSURE, RP1
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36849	L	2573	FO	89081512	123500	006000	27	G E=89,B=81
LC017	HD224085	52	07.95	2352290	+282117	H	1	16144	L	02475	FO	89081619	190020	003000	143	V
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16130	L	1982	FO	89081513	135700	003000	36	G E=174,B=75
LC017	HD224085	52	07.95	2352290	+282117	L	3	36863	L	02470	FO	89081619	194346	006000	121	V DOUBLE EXPOSURE
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16134	L	2313	FO	89081522	224000	003000	42	G E=153,B=39
LC017	HD224085	52	07.91	2352290	+282117	H	1	16145	L	02553	FO	89081621	210107	003500	143	V
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16135	L	2345	FO	89081600	004400	003000	42	G E=146,B=38
LC095	II PEG	46	08.13	2352290	+282118	H	1	16664	L	02108	FO	89102613	135808	014200	369	V
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36855	L	2378	FO	89081601	012600	006000	32	G E=111,B=36
LC095	HD224085	46	07.98	2352290	+282118	H	1	16695	L	02411	FO	89102918	184324	012300	363	V
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16136	L	2681	FO	89081602	024100	002700	39	G E=196,B=108
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36856	L	3059	FO	89081606	063600	006000	37	G E=137,B=85
PHCAL	NULL	99	7.3	2352290	+282118	H	1	16137				89081606	065700	000000	02	G B=38
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16138	L	2490	FO	89081608	080200	003000	39	G E=230,B=138
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36857	L	2973	FO	89081608	084600	003000	23	G E=57,B=46
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16139	L	2440	FO	89081609	092600	003000	39	G E=208,B=125
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36858	L	2937	FO	89081610	100700	006000	25	G E=86,B=66
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16140	L	2407	FO	89081611	112800	003000	39	G E=184,B=104
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36859	L	3026	FO	89081612	121600	004500	34	G E=83,B=59
RSLJN	HD 224085	46	7.3	2352290	+282118	H	1	16141	L	2374	FO	89081613	131100	003000	39	G E=194,B=105
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36860	L	2380	FO	89081613	134900	004500	24	G E=71,B=51
RSLJN	HD 224085	46	7.3	2352290	+282118	L	3	36854	L	2818	FO	89081623	232600	006000	21	G E=41,B=24
SNLSS	TRITON	04	13.5	4012.0	-221154	L	9	02232	2			89082114	141600	000020		G
SNLRW	NEPTUNE	03	7.7	4028.9	-221143	D	9	02229	2			89081800	001400	016000		G

TAPE ARCHIVE RETRIEVAL

DATA TAPE:

TAPE DENSITY ◯ 1600 bpi (default) ◯ 800 bpi

REQUESTED DATA ◯ Raw Data Only

◯ Complete: Raw image + Extracted Spectra

◯ Extracted Spectra Only

CAM #	IMAGE #	CAM #	IMAGE #	CAM #	IMAGE #	CAM #	IMAGE #

CAMERA NUMBERS: 1 = LWP / 2 = LWR / 3 = SWP / 4 = SWR

REASON DATA IS ACCESSIBLE:

◯ Normal Release (6 month rule)

◯ Special Release ◯ data from my programme .....

◯ maintenance data

◯ others (give details) .....

.....

REQUESTED BY: ..... DATE OF REQUEST: .....

MAILING ADDRESS: .....

.....

.....

.....

DATA BANK R.A.

Dr. M. Barylak
Data Bank Resident Astronomer
ESA IUE Observatory
Villafranca Satellite Tracking Station
Apartado 50727
E 28080 Madrid

Errors in Foregoing VILSPA Log

Please inform us by post of all errors or omissions in the log reproduced in this issue. Detach this page, fold and staple it leaving the mailing address (verso) visible.

CAMERA & IMAGE	DISPERSION	APERTURE	TARGET	DATE OF OBSERVATION	WRONG FIELD CONTENTS	CORRECT INFORMATION

UK RESIDENT ASTRONOMER
ESA
VILLAFRANCA SATELLITE TRACKING STATION
APARTADO 50727
E 28080 MADRID