

IUE  esa



NEWSLETTER

NO. 2

APRIL 1979

Observatory Controller's Message

As we enter the second year of the guest observer phase of IUE, I am happy to report the considerable improvements made during the first year. Our speed-up in operations is impressive and we recently obtained 22 spectra (some at low dispersion and hence with 2 spectra on each image) in one shift. The image processing has greatly improved too with speed increases of factors of 3.6 to 2.4, depending on the type of image processed, since the release of last May.

The daunting task of scheduling observers on IUE for 1979/80 is now well under way and, at the time of writing (mid-March) the schedule for April, May and June is firm. Those of you who wish to propose for the third year will get an opportunity this Summer. I expect detailed instructions on how to propose to be ready in the next month or two and a deadline for proposals around late September. We expect strong competition as last year when 173 proposals were received!

The risk of a conflict with the EXOSAT project because of an overlap of the operational phase has now been removed, and it will therefore be possible for IUE to enjoy full access to our facilities at VILSPA until the end of the presently scheduled 3-year operational lifetime.

ESA IUE Newsletter

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I expect soon to see a number of IUE results in the journals and presented at conferences, in particular "The First Year of IUE" at University College London. Please don't forget to send copies of your IUE preprints and reprints to me at VILSPA and Dr. F. Macchetto at ESTEC.

M.V. Penston

VIP's Visit

The Director of the Scientific Programme, Dr. E.A. Trendelenburg, visited the VILSPA Observatory on February 21, accompanied by his assistant, Dr. V. Manno. To permit him to view operations, the VILSPA shift was extended one hour (repaid, of course, to NASA another day!). Resident Astronomers discussed real-time operations, image processing and some of IUE's scientific achievements. We believe the visit was successful and heard that the VIP was suitably impressed!



from left to right: Prof. E. Trendelenburg, Dr. A. Ripoll, Dr. V. Manno.

A Few Words from the Station Director

I gladly take the opportunity that A. Heck, Editor, gives me to write a few words in the n° 2 issue of the IUE ESA Newsletter. I wish the group working with him in this endeavour every success. It is now a fact that the work performed at the Villafranca Station by the team of astronomers, engineers, technicians, clerks and support personnel is known by the IUE users around the world. It is for me a great pleasure to head this team whose prime objective is to provide the best possible service to the European astronomical community.

Also, let me welcome all the "Guest Observers" (SRC and ESA) since I not always have the occasion to welcome them personally. The Station is aware that its primary mission is to obtain the best scientific results from astronomers' observations. We try hard, however we need all the feedback we can get from our "Guest Observers" to help us make improvements where deficiencies may exist. For instance, let me illustrate how this can work. The construction of the dormitories was the result of Professor de Jager, Chairman of the Selection Committee, suggesting them to Mr. Gibson, Director General of ESA. Dr. Penston's idea of providing Users with forms inviting suggestions have brought about such improvements as hot water heaters, new lockers, better air conditioning, added cleaning, prohibition of vehicle parking near the dormitories, etc.

I wish to praise the remarkable job being performed by the Resident Astronomers who, not only fulfil well their main duties efficiently, but also accomplish their own observations as reflected by the extensive publications produced by them.

Public relations have been gaining importance all along and although it may represent added work and even though visitors may interfere at times with Station activities, I hope everyone realizes that the "tax payer" has the right to know how and where funds are being spent. Visits by Spanish TV and press representatives, school students, engineering graduates and high university members, etc. are unavoidable. A recent informal visit by Dr. Trendelenburg and his deputy, Dr. Manno, turned out to be particularly inspiring.

Not all is perfect at the Station, however the truth is that we all work enthusiastically to solve the problems that do exist.

A. Ripoll

ESA's Angels (with apologies to Charlie)

When arriving at VILSPA, Visiting Astronomers have first to contact the Observatory Secretary, Carmen Ramirez de Palacios, whose office (Room n° 31A) is the first on the left when entering by the main entrance of the Station's main building.

She will take care of some administrative matters, deliver the necessary documentation and introduce V.A. to the Observatory staff. She is also the person to contact for accomodation at the Station. V.A. should announce to Carmen their arrival time (at least 10 days in advance, please). She is also responsible for dispatching the observational output.

Born in Morocco, Carmen went later to Canada where she got a teaching degree and ... a husband. Back to Morocco, she spent 4 years teaching and then came to Spain where she joined the Station in August 1977. Her husband is also working at the Station as Chief Computer Operator.

Carmen speaks fluently Spanish, French and English (kein Deutsch, entschuldigen Sie bitte, liebe deutschsprachige Kollegen!).

When Carmen is absent, Visiting Astronomers should turn instead to the office in front of Carmen's (Room n° 2) where Elisa Alonso de Oerke and/or Angelina Luchena Raffo will attend them. This office should be visited anyway to sign in the Guest Book of the Station.

Born in Las Palmas (Canarias Islands), Elisa is the Station Director's Secretary and speaks Spanish, English and some French. Her past experience covers secretarial work by the JPL representative at the NASA office in Madrid and at the USAF base at Torrejón near Madrid. She joined ESA in 1976.

Angelina is a Madrileña and is mainly Elisa's assistant. She speaks Spanish, Italian, English and also un peu le français. She worked at NASA stations near Madrid (Apollo project), at the US Navy base in Rota and later in a KLM office. She joined the Station in May 1978.

Have a Good (exposure) Time

Some users do not exploit to the full their allocated time getting over/under-exposures even for objects with tabulated UV fluxes.

Recently at VILSPA, we have used a sample of about 30 high resolution spectra of different objects with very well known UV fluxes, in order to update the values of the quantities E_{λ} used in the calculations of the exposure times.

Moreover we have made some attempts to calibrate the ratios between high and low resolution exposures.

The results are reported in sections A and B.

A. HIGH RESOLUTION

Tables 1 and 2 give the values E_{λ} for obtaining 100 % exposure (205 DN above background), at the corresponding λ , according to the relation:

$$t \text{ (sec)} = \frac{E_{\lambda}}{F_{\lambda}} \cdot$$

These values are for high resolution, large aperture.

TABLE 1

SHORT WAVELENGTH PRIME
CAMERA (SWP)

λ	E_{λ}
1200	$2.01 \cdot 10^{-7}$
1250	1.46
1300	1.25
1350	1.16
1400	1.28
1450	1.43
1500	1.53
1550	1.43
1600	1.16
1650	0.95
1700	0.76
1800	0.56
1900	0.43
1950	0.40
2000	0.37

TABLE 2

LONG WAVELENGTH REDUNDANT
CAMERA (LWR)

λ	E_{λ}
1900	$1.68 \cdot 10^{-7}$
2000	1.08
2100	0.64
2200	0.48
2300	0.40
2400	0.29
2500	0.22
2600	0.18
2700	0.16
2800	0.17
2900	0.21
3000	0.27
3100	0.45
3200	1.05

Due to the slope of the curves represented by the values reported in Tables 1 and 2, for almost all stars (apart from the hottest O-type stars only) saturation occurs first in the region $\lambda\lambda 1850-2000$ for the SWP and $\lambda\lambda 2650-2800$ for the LWR. Therefore for almost all stars the highest exposure level (best S/N ratio) compatible with no saturation in these two critical regions can be obtained using these two single relations:

$$t \text{ (sec)} \approx 8.6 \cdot 10^{-8} / F_{1950} \quad \text{for SWP}$$

$$t \text{ (sec)} \approx 3.6 \cdot 10^{-8} / F_{2740} \quad \text{for LWR .}$$

Using the small apertures, the following relation applies for both cameras:

$$t_{sm} \approx 2 \begin{matrix} +0.1 \\ -0.2 \end{matrix} t_{lg} \quad \text{(focus dependent).}$$

B. LOW RESOLUTION

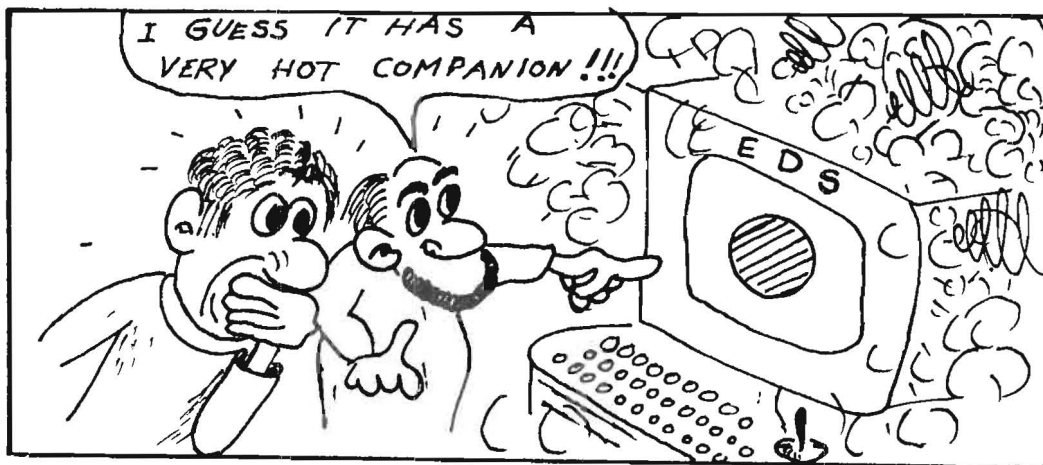
In the same aperture (large) the ratio t_{high}/t_{low} is not constant but wavelength dependent for both cameras. In the SWP, it can be linearly approximated (within 10%) as varying from about 95 at $\lambda 1300$ to 60 at $\lambda 1950$. In the LWR, the variation is smaller and a ratio of about 90 can be assumed throughout the whole range, instead of 50 as given in the User's Guide.

The time ratios between small and large apertures are the following:

$$t_{sm} \approx 1.65 t_{lg} \quad \text{for SWP}$$

$$t_{sm} \approx 1.80 t_{lg} \quad \text{for LWR .}$$

P.L. Selvelli



Scattered Light in the IUE Telescope

Recently it was noted whilst pointing the telescope into the Earth constraint area - for users who have not yet observed with the IUE satellite, this type of observation is permitted to some degree - that the amount of scattered light as measured by the number of photons impinging on the photo-cathode surface of the fine error sensor (FES) was rather high (appr. 300 counts).

During an observation performed in March, it was even impossible to identify the star field within one hour, because the user had selected a faint object of 12.0 magnitude, being too faint compared to the scattered light entering the telescope.

The data of this observation have been further analysed and the following is the result which may help users in future to plan observations in more detail and to avoid unnecessary losses of observation time.

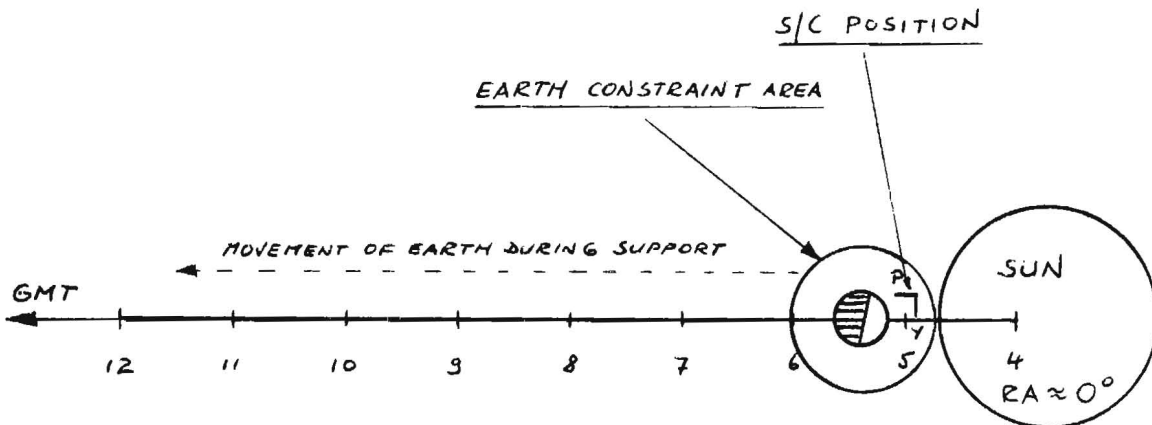


FIG. 1 Relative positions of Earth and Sun in March at the beginning of support hours, S/C pointing into the Earth constraint area.

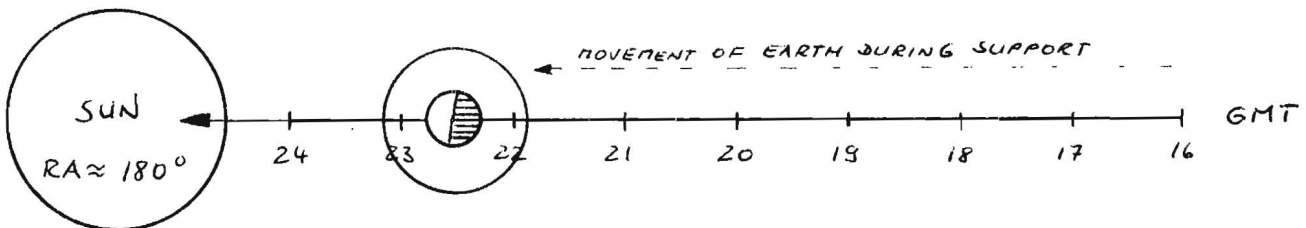


FIG. 2 Relative positions of Earth and Sun in September prior to the end of support hours.

The satellite was positioned between Sun constraint area and Earth (Ref. Fig. 1), but pointing into the Earth constraint area close to the illuminated limb, which was the obvious reason of having more scattered light in the telescope. Under these circumstances, it would be advisable to observe an alternative object first and to allow the Earth in the meantime to move further away and then perform the observation originally intended.

For observations to be performed next September, similar conditions will exist prior to the end of the VILSPA support (Ref. Fig. 2). Therefore users should be alerted already at this time to plan their observations accordingly.

J. Faelker

IUE Publications

Since the publication of Newsletter n°1, we received only a few (p)reprints of papers based on observations by IUE from VILSPA. May we insist you send us (and to Dr. F. Macchetto, ESTEC) a copy of all your papers based on IUE observations? Thanks in advance.

- Appenzeller, E., Wolf, B. 1979, IUE Observations of the Extreme B1 Supergiant ζ^1 Sco, Preprint submitted to Astron. Astrophys. Suppl.
- Flower, D. R., Nussbaumer, H., Schild, H. 1979, The EUV Spectra of Young Planetary Nebulae, preprint.
- Gahm, G.F., Fredga, K., Liseau, R., Dravins, D. 1979, The Far UV Spectrum of the T Tauri Star RU Lupi, preprint.
- Huber, M.C.E., Nussbaumer, H., Smith, L.J., Willis, A.J., Wilson, R. 1979, IUE Observations of Absorption by Hot Gas in the Nebula NGC 6888, submitted as a letter to Nature.
- Morossi, C., Stalio, R. 1979, IUE Observations of Hot Supergiants, Mem. Soc. Astron. Ital., in press.
- Nussbaumer, H., Storey, P. 1979, NIII lines for Solar Diagnostics, preprint.
- Schönberner, D., Hunger, K. 1978, The UV-Spectrum of the Extreme Helium Stars BD + 10°2179 and BD - 9°4395, Astron. Astrophys. 70, L57.

IUE Observatory Publications

We are updating below the list published in Newsletter n° 1:

- Benvenuti, P., D'Odorico, S., Dopita, M.A. 1979, UV Spectrum of Supernova Remnant Reveals Carbon Depletion in the Interstellar Medium, *Nature*, 277, 99.
- Cassatella, A., Beeckmans, F., Benvenuti, P., Clavel, J., Heck, A., Lamers, H.J.G.L.M., Macchetto, F., Penston, M., Selvelli, P.L., Stickland, D.J. 1979, On the High Resolution Ultraviolet Spectrum of P Cygni, *Astron. Astrophys.*, in press.
- Cassatella, A., Benvenuti, P., Clavel, J., Heck, A., Macchetto, F., Penston, M., Selvelli, P.L. 1979, On the Ultraviolet Spectrum of Nova Cygni 1978, *Astron. Astrophys. Lett.*, in press.
- Cassatella, A., Giangrande, A., Viotti, R. 1979, The Ultraviolet Spectrum and Expansion Velocity of η Carinae from IUE Observations, *Astron. Astrophys.* 71, L9.
- Faraggiana, R., Hack, M., Selvelli, P.L. 1979, The UV Spectrum of CH Cygni and VV Cep, *Mem. Soc. Astron. Ital.*, in press.
- Flora, V., Hack, M., Santin, P., Selvelli, P.L., 1979 UV Spectra of the two Binary Systems β Lyr and ν Sgr, *Mem. Soc. Astron. Ital.*, in press.
- Hack, M., Selvelli, P.L. 1979, The UV Spectrum of the Eclipsing Binary ϵ Aur, *Mem. Soc. Astron. Ital.*, in press.
- Jaschek, M., Jaschek, C., Grenier, S., Gómez, A.E., Heck, A. 1979, The Absolute Magnitude of the Hg-Mn Stars, *Astron. Astrophys.*, in press.
- Penston, M.V. 1979, Spectroscopy of Active Galaxies, in *Proc. ESA/ESO Workshop on Space Telescope*, in press.
- Stickland, D.J., Harmer, D.L. 1978, The Discovery of a Hot Companion to HR 8752, *Astron. Astrophys.* 70, L53.
- Viotti, R., Cassatella, A., Giangrande, A. 1978 High Resolution Ultraviolet Observations of Eta Carinae with IUE, in *High Resolution Spectroscopy*, Ed. M. Hack, Osservatorio Astronomico, Trieste, p. 686.
- Wilson, A.S., Penston, M.V. 1979, IC 4329 A, The Nearest Quasar?, *Astrophys. J.*, in press.

Excerpt of ESA 1979 Report to Cospar

The IUE was commissioned and the guest observer phase started on April 3rd 1978. Between that date and the end of the year, 73 different groups of astronomers from 11 countries came to the ESA Villafranca Satellite Tracking Station near Madrid to use IUE and to take 1380 different images (some with more than one spectrum) of over 400 celestial objects. These included the SRC guest observers who also use the ESA ground station. The results of these astronomers are reported separately to COSPAR by the SRC and are not included here.

From the lists of the observing programmes approved by ESA for 1978-79 and carried out by guest observers during the first year, it is clear ESA has provided access to astronomers at many different institutes and with many diverse astronomical programmes. Consequently it is only possible to give a few selected highlights.

The Stockholm group have studied RU Lupi, a young star still evolving onto the main sequence. They find very intense emission lines of two and three times ionized atoms ten thousand times stronger than solar lines and implying extended regions at temperatures as high as 10^5 degrees. In addition they see a far-ultraviolet continuum from this hot plasma.

Observers from Paris have studied peculiar A stars to correlate their variability with that in the visible. In one such star, 21 Comae, they find large variations in ultraviolet flux in contrast to a very small photometric variation in visible light.

A group of astronomers from Trieste have been working on problems related to binary stars. In ϵ Aurigae where a hot subluminoous companion star was predicted, this has indeed been found using the IUE but in other cases, β Lyrae and ν Sagittarii, the IUE data show instead broad emission lines from an expanding shell of gas around the system. Two systems containing a cool supergiant and a possible hot companion have also been studied. In both cases the blue companion was found in the IUE data and in one star, VV Cep, the light from this shines through the envelope of the supergiant permitting an unusual study of its outer atmosphere.

Stars showing 'P Cygni' line profiles (absorption from an outflowing wind superposed on an emission line) have been studied by several groups. Astronomers at Utrecht and ESTEC report small but rapid variations in line profile on a timescale of hours or less. Determining the details of the flow in the winds, the Heidelberg group showed that in the star ζ^1 Scorpii the flow decelerated with distance from the star whereas, by contrast, the Villafranca group found an accelerating flow in P Cygni itself.

The Utrecht-ESTEC observers have also been studying the rate at which hot supergiants lose material as a function of their luminosity and temperature. A particular effort is being made to locate the lowest luminosity at which mass loss still occurs. Evidence of mass loss is also present in Wolf-Rayet stars and the Zurich group used IUE to discover absorption lines of three times ionized carbon and silicon in nebulae around such stars.

Several new results on peculiar and symbiotic stars have been obtained by the Frascati group. In the symbiotic star, Z Andromedae, a strong ultraviolet continuum representing an O-type star is present as well as several emission lines. For the extraordinary star, η Carinae, one of the brightest objects in our galaxy, IUE data shows a mass loss rate larger than any yet measured from a star.

The Villafranca astronomers have obtained IUE data at high dispersion of another symbiotic star, RR Telescopii, showing over 400 emission lines. Identification of these is almost complete and analysis of their intensities is in progress.

Zurich astronomers report IUE observations of two planetary nebulae in formation, V1016 Cygni and HM Sagitae. They find that the profiles and intensities of the ultraviolet emission lines confirm the youth of these objects.

Supernovae remnants have been studied by astronomers at Asiago and Villafranca. The IUE data show emission lines whose intensities are well explained by a model in which a shock wave penetrates the interstellar medium.

Scientists from Paris and Villafranca have pointed IUE at giant irregular galaxies. They find the rather puzzling fact that while optical spectra of these objects show strong emission lines, there are none in the ultraviolet.

The radio galaxy, M87, has been studied with the IUE. Astronomers from Padova observing the nucleus of the galaxy find an excess shortward of 2000 Å suggesting the presence of hitherto unsuspected hot stars. Meanwhile observers from Milano and ESO studied the 'jet' in this galaxy. They find a flatter spectrum (smaller α , where $f_{\nu} \propto \nu^{\alpha}$) at short wavelength than would be suggested from an extrapolation of the optical continuum.

A collaboration of seven European groups obtained data on the brightest quasar, 3C273, and the brightest Seyfert galaxy, NGC 4151. In the case of 3C273 the data shows that 3C273 is basically similar to high redshift quasars where, because of the redshift, the ultraviolet part of the spectrum can be observed from the ground. Interesting results include the fact that hydrogen and iron emission lines are weaker

than anticipated from optical line intensities. Perhaps surprisingly one of the most interesting results is the presence of absorption lines showing a large amount of gas in the halo of our galaxy ! In the case of NGC 4151 the collaboration confirms the conclusion reached by the Commissioning Team that the absorption lines made in the outer parts of the Seyfert nucleus are variable.

The IUE satellite reacted quickly to two unexpected astronomical events during the year. Spectra were obtained of Comet Seargent, 1978m, showing emission lines due to atomic hydrogen and OH, CS, CO₂⁺, NH and CO⁺ molecules. Spectra were also obtained during the outburst of Nova Cygni 1978. Strong P Cygni-types profiles of Mg II are seen indicating outflow velocities of up to 1160 km s⁻¹.

(Michael Penston wishes to thank all persons who made this report possible.)



IUE High Dispersion Calibration

IUE Users should have received by now a note entitled "Preliminary Absolute Calibration for High Resolution IUE Spectra" by A. Cassatella and P.L. Selvelli. If it is not the case, please ask for one copy by the IUE Observatory at VILSPA.



VILSPA Images for Release to Scientific Community

The tables below update the list of VILSPA images released at the expiration of their six month period (see previous lists in Newsletter n° 1).

As explained in M.V. Penston's message in Newsletter n° 1, astronomers interested in getting copies of images should write first to the Observatory Controller in order to receive a "Tape Archive Retrieval" form (slightly modified as compared to that published in Newsletter n°1).

1979 FEB 1st (despatched 1978 July)

<u>Camera 2 (LWR)</u>		<u>Camera 3 (SWP)</u>		
1587	1824	1681	1963	2038
1664	1825	1782	1964	2046
1665	1826	1877	1965	2047
1749	1827	1882	1975	2054
1750	1829	1883	1976	2055
1751	1830	1884	1977	2072
1755	1838	1891	1978	2073
1756	1844	1892	1985	2074
1757	1845	1893	1986	2075
1762	1850	1899	1987	2092
1763	1855	1900	1988	2098
1764	1856	1901	1996	2099
1765	1871	1902	1997	2100
1769	1885	1907	1998	2107
1770	1886	1908	1999	2115
1771	1887	1912	2000	2128
1772	1893	1916	2001	2148
1780	1894	1917	2002	
1788	1915	1925	2011	
1789		1926	2012	
1804		1938	2013	
1811		1952	2019	
1812		1953	2020	
1817		1954	2021	
1818		1962	2031	

1979 Mar 1st (despatched 1978 Aug)

Camera 2 (LWR)

Camera 3 (SWP)

1860	2009	2085	2227
1861	2010	2136	2232
1862	2011	2137	2233
1863	2021	2157	2247
1864	2022	2162	2251
1865	2109	2163	2261
1876	2128	2164	2333
1909	2129	2170	2343
1910	2130	2171	2344
1931	2131	2178	2355
1932	2151	2186	2356
1933	2152	2187	2357
1954	2153	2188	2358
1955	2154	2189	2379
1969	2161	2202	2398
1970	2162	2203	
1971	2169	2204	
1982	2171	2205	
1984	2175	2215	
	2176	2216	

1979 April 1st (despatched 1978 Sept.)

Camera 2 LWR

Camera 3 SWP

2138	2242	2388	2345	2485	2697
2139	2249	2407	2346	2499	2698
2140	2250	2408	2368	2500	2699
2141	2259	2409	2369	2507	2707
2168	2260	2410	2391	2508	2708
2170	2261	2416	2392	2517	2709
2189	2272	2417	2393	2518	2710
2190	2282	2418	2412	2519	2719
2191	2283	2419	2416	2546	2720
2192	2290	2425	2417	2547	2721
2193	2291	2426	2418	2548	2722
2194	2303	2427	2419	2587	2731
2201	2304	2434	2425	2638	2732
2218	2324	2435	2426	2639	2733
2219	2337	2436	2427	2643	2742
2220	2338	2437	2433	2644	
2227	2345	2447	2434	2645	
2228	2346	2448	2435	2646	
2229	2356	2462	2436	2650	
2233	2357	2463	2454	2655	
2234	2365	2464	2456	2656	
2236	2366	2465	2465	2657	
2238	2367	2468	2466	2658	
2239	2376	2469	2467	2663	
2240	2377	2470	2468	2674	
2241	2378	2471	2469	2675	

ESA Proposals for the Second Year of Observations on IUE

The following pages give a list of proposals which were allocated IUE shifts by the ESA Selection Committee for the second block of observations beginning April 1st, 1979. The columns give successively the serial number of reception the proposals, the code number which will now identify the corresponding proposal in all operations, the title of the proposal and the contact investigator.

NO	CODE	PROGRAM TITLE	CONTACT INVESTIGATOR	NO	CODE	PROGRAM TITLE	CONTACT INVESTIGATOR
1	CC 100	PROGRAM TITLE	CONTACT INVESTIGATOR	16	GV 111	CHEMICAL COMPOSITION AND DIFFUSION IN HOT, HIGH GRAVITY STARS	VAUCLAIR, G.
2	JC 101	A SEARCH FOR CD ABSORPTION LINES IN THE SPECTRA OF PLANETARY NEBULAE WITH THE IUE	CLAVI, J.	17	CJ 112	STUDY OF ALPHA CANTIS HALOPIUS STARS	DE JAGER, C.
3	AM 102	ULTRAVIOLET OBSERVATIONS OF EARLY A EMISSION AND SHELL STARS	MURPHY-DELLACE, A.M.	18	ET 113	OBSERVATIONS OF X-RAY EMITTING OSNS	TANZI, E.G.
4	NP 103	U.V. SPECTRA OF SUPERNOVAE	PANAGIA, N.	19	AT 114	OBSERVATIONS OF A SELECTED LIST OF CATALYSMIR VARIABLES AS HER, NO HER, UX URA, AND CD -42 14462	TREVES, A.
5	C7 104	CHROMOSPHERIC STRUCTURE IN F, G, AND K TYPE STARS	ZHANG, C.	20	MI 120	MONITORING OF THE CONTINUUM AND LINE STRENGTHS OF NGC 4151 WITH THE IUE SATELLITE	ULRICH, M.M.
6	RM 105	OBSERVATION OF PLANETARY NEBULAE WITH THE IUE	WENGER, R.	21	RR 115	SPECTROSCOPY OF STARS WITH ULTRAVIOLET EXCESS	BARBER, R.
7	RF 106	UV OBSERVATIONS OF THE UPPER ATMOSPHERE AND NEAR EARTH ENVIRONMENT	FITTON, B.	22	GP 117	NARROW EMISSION LINE GALAXIES WITH X-RAY EMISSION	PEROLA, G.C.
8	SV 107	ULTRAVIOLET OBSERVATIONS OF HIGH STARS AS CHECK OF THE DIFFUSION THEORY	VAUCLAIR, G.	23	CJ 118	SEARCH FOR AUTOMATION LINES IN CHEMICALLY PECULIAR STARS	JAMAR, C.
9	NR 108	ULTRAVIOLET OBSERVATIONS OF EMISSION LINE CLUSTERS	REI, N.	24	JK 119	INTERMEDIATE MASS STARS (2ND RUN)	KAUFMAN, J.B.
10	CC 110	U.V. OBSERVATIONS OF PERIHELION AND EMISSION LINE OBJECTS	CHAVARRIA, C.				

N	CODE	PROGRAM TITLE	CONTACT INVESTIGATOR	N	CODE	PROGRAM TITLE	CONTACT INVESTIGATOR
30	HM 121	STUDY OF THE AP CHARACTERISTICS IN THE UV	HAUCK, R.	45	MI 129	SIMULTANEOUS UV, OPTICAL, AND X-RAY OBSERVATIONS OF RL LACERTAE OBJECTS	ULRICH, M.H.
32	HM 122	THE PROTO PLANETARY NEBULAE V 1016 CYGNI AND HM SAGITTAE	NISSRAUMER, H.	48	MP 130	IDENTIFICATION OF LINES OF HIGHLY IONIZED SPECIES	PENSTON, M.V.
34	PR 190	SPECTROPHOTOMETRY OF GALACTIC AND EXTRAGALACTIC SUPERNOVA-REMNANTS	DENNEFELD, M.	49	PV 131	LOOKING FOR DWARF SEYFERT 1 NUCLEI	VERON, P.
35	MD 123	SPECTROPHOTOMETRY OF HII REGIONS CLOSE TO SNR	DENNEFELD, M.	50	RF 132	AP STAR ATMOSPHERES (WITH EXTENSION TO SOME AM STARS)	FARAGGIANA, R.
37	MG 124	OBSERVATION OF INTERSTELLAR ABSORPTION AND EMISSION LINES FROM ATOMS AND MOLECULES	GREING, M.	51	HW 135	HEAVY ELEMENTS IN PECULIAR A-STAR ATMOSPHERES, IN PARTICULAR, UNSTABLE ISOTOPES.	WEISS, M.W.
38	JM 125	UV OBSERVATIONS OF DENSE GLOBULAR CLUSTERS	HELNICK, J.	52	JD 136	INTEGRATED PROPERTIES OF HOT EVOLVED STARS	DEHARVENG, J.M.
39	MG 126	SEARCH FOR ULTRAVIOLET EMISSION LINES FROM OPTICALLY IDENTIFIED EXTRAGALACTIC X-RAY SOURCES	GREING, M.	53	HR 137	HIGH RESOLUTION SPECTROSCOPY OF B-TYPE HALO-STARS	BASCHEK, R.
42	SP 127	CENTRAL STARS OF PLANETARY NEBULAE	POTTASCH, S.R.	54	MG 138	UV OBSERVATIONS OF THE COMA BERNICE OPEN CLUSTER'S AP STARS AND SOME OF THE STRONGEST MAGNETIC AP STARS	GERRALDI, M.
43	SP 128	SDD AND NOVA-LIKE STARS	POTTASCH, S.R.	55	MG 139	ULTRAVIOLET OBSERVATIONS OF BP-AP STARS AT HIGH GALACTIC LATITUDE	GERRALDI, M.
44	PR 190	LOW RESOLUTION SPECTROSCOPY OF THE SUPERNOVA REMNANTS M49 AND N63A IN THE LARGE MAGELLANIC CLOUD	GREVE, A.	58	MD 123	UV-OBSERVATIONS OF EXTRAGALACTIC HII-REGIONS	SCHFFLER, M.

CONF	PROGRAM TITLE	CONTACT INVESTIGATOR	CONF	PROGRAM TITLE	CONTACT INVESTIGATOR
59	THE ULTRAVIOLET CONTINUUM OF H1 LAC	GATTA, G.	72	ULTRAVIOLET SPECTROSCOPY OF HOT WHITE DWARFS	KREISER, D.
61	THE STUDY OF X-RAY BINARY STARS	HAMMERSCHLAG-HEINBERG, G.	77	QUANTUM STARS WITH THERMAL EXCESS AS PROTOPLANETARY NEBULAE	HAMMOND, A.
62	JUPITER ATMOSPHERES OF JUPITER AND SATURN	CONNER, M.	78	JR 151 - STELLAR WIND IN RE STARS	DACHS, J.
63	STUDY OF MASS FLOW IN CLOSE BINARY SYSTEMS	RAUF, J.	79	MASS LOSS FROM OR STARS IN THE LMC	MELF, R.
65	STELLAR NG II LINES (2ND RUN)	FEDGA, K.	80	IN 153 - SPECTROSCOPY OF 2 SOUTHERN RL OBJECTS	NAZIGER, T.J.
66	MASS LOSS AND MASS TRANSFER IN CLOSE BINARY SYSTEMS	DE LOORE, C.	82	JR 109 - EVOLUTION TOWARDS THE WHITE DWARF STAGE. 2. DWARF NOVAE AND NOVA-LIKE VARIABLES.	SITTER, V.
67	ULTRAVIOLET OBSERVATIONS OF X-RAY SOURCES IN THE MAGELLANIC CLOUDS WITH THE	RONNET-BINAUD, J.M.	87	MR 159 - EXCEPTIONAL BINARY AND ATMOSPHERIC-ECLIPSE BINARY STARS	HACK, M.
68	A FAR UV STUDY OF STARS IN THE MAGELLANIC CLOUDS	PREVOT, L.	88	MR 155 - RP AND HF-POOR STARS BELONGING TO POPULATION I AND IN POPULATION II	HACK, M.
70	MASS LOSS OF LUMINOUS G AND F SUPERGIANTS	REINERS, D.	89	MR 156 - ULTRAVIOLET STUDIES OF MAGNETIC STARS	INSZTYR, A.
71	MASS LOSS OF RED GIANTS WITH VERY COMPACTS	REINERS, D.	91	JR 157 - STUDY OF OLD NOVAE AND NOVAE OUT-BURST	ANDRZEJ, J.

N	CODE	PROGRAM TITLE	CONTACT INVESTIGATOR	N	CODE	PROGRAM TITLE	CONTACT INVESTIGATOR
92	VC 15A	LOW MASS STARS	CALOI, V.	108	JR 166	SPECTROPHOTOMETRY OF NARROW LINE ACTIVE NUCLFT WITH OBSERVED X-RAY EMISSION AND/OR HIGH EXCITATION LINES	BERGERON, J.
93	JH 125	INTEGRATED SPECTRA OF GALACTIC AND EXTRAGALACTIC GLOBULAR CLUSTERS	CALOI, V.	109	CR 167	BLUE DWARF GALAXIES	BARRIERI, C.
95	VC 159	EVOLVED GLOBULAR CLUSTER STARS	CALOI, V.	110	LR 168	HERTZ-PARO OBJECTS	ROSTNO, L.
97	PK 160	UV SPECTRA OF NORMAL ELLIPTICAL GALAXIES AND GLOBULAR CLUSTERS	KJERGAARD RASMUSSEN, P.	111	LR 169	AF AND HE STARS ASSOCIATED WITH MERULOSITY	ROSTNO, L.
98	PK 161	ULTRAVIOLET SPECTROSCOPY OF LATE-TYPE STARS COVERING A WIDE RANGE IN THE THREE BASIC ATMOSPHERIC PARAMETERS	KJERGAARD RASMUSSEN, P.	112	LR 170	A STUDY OF LUMINOSITY EFFECTS IN THE SPECTRUM OF OLD NOVAE	ROSTNO, L.
99	GR 162	STUDY OF ULTRAVIOLET SPECTRUM IN DUSTY GALAXIES	GALLETTA, G.	113	HS 171	THE ULTRAVIOLET SPECTRA AND VARIABILITY OF MASSIVE BINARY X-RAY SOURCES	SCHMIDT, H.U.
100	AC 163	INVESTIGATIONS ON UV SPECTRA OF COOL GIANT VARIABLE STARS	CASSELLA, A.	115	JS 172	SYMBIOTIC STARS AND VV CEPHEI STARS	SWINGS, J.P.
104	CC 164	OBSERVATIONS OF INTERACTING GALAXIES	CANTINI, C.	117	MK 173	SPECTROSCOPY OF R(CE) STARS	KLUTZ, M.
105	MK 165	MORPHOLOGICAL ANALYSIS OF SUBDWARF DWARFS	KUORITZKI, R.P.	118	JH 174	OBSERVATION OF CLUMPY IRREGULAR MARKARIAN GALAXIES	HEIDMANN, J.
107	JK 119	ULTRAVIOLET SPECTROSCOPY OF EXTREME HELIUM STARS	HUNGER, M.	120	CC 164	UV OBSERVATIONS OF DOUBLE ACTIVE GALAXIES	TARFNGHI, M.

* N *	* CODE *	* PROGRAM TITLE *	* CONTACT INVESTIGATOR *	* N *	* CODE *	* PROGRAM TITLE *	* CONTACT INVESTIGATOR *
* 121 *	* FD 175 *	* ULTRAVIOLET OBSERVATIONS OF HOT * WHITE DWARFS AND WHITE DWARF * PROGENITORS *	* DIANTONA, F. *	* 138 *	* RR 182 *	* CONTINUUM ENERGY DISTRIBUTION AND * EMISSION LINE SPECTRUM IN BLUE * COMPACT GALAXIES WITH BRAD * EMISSION LINES *	* BARRON, R. *
* 123 *	* CC 110 *	* ULTRAVIOLET SPECTRA OF T TAURI * STARS WITH STRONG UV-EXCESSES *	* APPENZELLER, I. *	* 139 *	* DK 183 *	* ULTRAVIOLET OBSERVATIONS OF * COMPACT EMISSION-LINES GALAXIES *	* KUNTH, D. *
* 125 *	* CC 110 *	* UV CONTINUA AND LINE SPECTRA OF YY * ORIONIS STARS *	* RASTIAN, U. *	* 140 *	* PW 184 *	* ULTRAVIOLET OBSERVATIONS OF THE * "HOT" COMPANIONS OF LATE * TYPE STARS *	* WESSFLIUS, P.R. *
* 124 *	* EG 176 *	* THE ULTRAVIOLET EXCESSES OF RS * CVN-TYPE BINARIES *	* GIOVANNELLI, F. *	* 142 *	* DG 185 *	* ULTRAVIOLET OBSERVATIONS OF STARS * IN DUSTY HIT REGIONS *	* GILRA, D.P. *
* 129 *	* EG 177 *	* UV SPECTRA OF HD 245770/A0535+26 *	* GIOVANNELLI, F. *	* 148 *	* KH 186 *	* OBSERVATIONS OF THE SPECTROSCOPIC * BINARY THETA MUSCAE (HR4952, WC6+ * 09.5/BDJAB, MV = 5.69) *	* VAN DER HUICHT, K.A. *
* 130 *	* JR 109 *	* SPECTROSCOPIC UV-OBSERVATIONS OF * CATAclysmic VARIABLES *	* KRAUTER, J. *	* 149 *	* PS 187 *	* RECURRENT NOVAE IN THE MINIMUM AND * THE NEBUULAR PHASE AND THEIR * RELATIONSHIP WITH CLASSICAL NOVAE *	* SELVELLI, P.L. *
* 132 *	* RC 178 *	* ULTRAVIOLET STUDIES OF COMPACT * X-RAY SOURCES *	* CANAL, R. *	* 150 *	* PR 188 *	* ACTIVE NUCLEI OF SPIRAL GALAXIES *	* RENVENUTI, P. *
* 133 *	* MR 179 *	* SOLAR-TYPE STELLAR ACTIVITY ON * BRIGHT BY ORA STARS *	* RODONO, M. *	* 151 *	* PR 189 *	* MASS LOSS FROM O STARS IN THE * MAGELLANIC CLOUDS *	* RENVENUTI, P. *
* 135 *	* UZ 180 *	* UV EMISSION FROM PLANETARY * ATMOSPHERES *	* FRICKE, K.H. *	* 152 *	* PB 190 *	* ULTRAVIOLET OBSERVATIONS OF SHOCK * IONIZED GAS *	* RENVENUTI, P. *
* 137 *	* SP 181 *	* PHYSICAL CONDITIONS IN TWO BINARY * SYSTEMS WHICH ARE BLACK-HOLE * CANDIDATES *	* POTTASCH, S.R. *	* 154 *	* EG 191 *	* UV OBSERVATIONS OF STAR SPOT * ACTIVITY IN SOLAR TYPE ECLIPSE * BINARIES *	* GEYER, E.H. *

N	CODE	PROGRAM TITLE	CONTACT INVESTIGATOR	N	CODE	PROGRAM TITLE	CONTACT INVESTIGATOR
155	PR 192	THE BINARY SYSTEM X PERSEI (311 0352+30)	BERNACCA, P.L.	166	SC 202	RS CVN BINARYTES	CATALANO, S.
157	KE 193	DISTRIBUTION OF UV FLUX IN THE CENTRAL REGION OF M82	FRICKE, K.J.	167	MP 203	STUDY OF OR STARS ASSOCIATED WITH THE CEPHEID CO COMPLEX AND THE S 155 NEBULA	PERINOTTO, M.
158	KE 194	UV SPECTROSCOPY OF SELECTED SEYFERT 1 GALAXIES	FRICKE, K.J.	168	PC 204	ENERGY DISTRIBUTION IN THE ULTRA- VIOLET OF NORMAL GIANT ELLIPTICAL GALAXIES	CRANF, P.
159	KE 195	UV SPECTROPHOTOMETRY OF BL LAC AND OF OBJECTS RELATED TO BL LACERTAE	FRICKE, K.J.	169	MR 205	CHROMOSPHERIC ACTIVITY IN DWARF STARS (2ND RUN)	REGO, M.
160	JC 196	OBSERVATION OF SEYFERT AND OTHER GALAXIES AND LOW REDSHIFT QUASARS	CLAVEL, J.	170	HM 206	PECULIAR A-STARS (2ND RUN)	MAITZEN, H.M.
161	GH 197	DOUBLE STARS WITH CEPHEID AND R-STAR COMPONENTS AND, A TRIPLE SYSTEM WITH A CEPHEID A R-GIANT AND A BLACK HOLE	HENRIKSSON, G.	171	FM 207	A STUDY OF THE MASS-LOSS PROCFSS IN EARLY-TYPE STARS (2ND RUN)	MACCHETTO, F.
162	KE 198	OBSERVATIONS OF F DWARFS WITH DIFFERENT METAL ABUNDANCIES	FRIKSSON, K.				
163	HV 199	UV OBSERVATIONS OF EMISSION LINE STARS	VIOTTI, R.				
164	MC 200	INVESTIGATION OF THE UV CONTINUUM OF ELLIPTICAL GALAXIES	CAPACCIOLI, M.				
165	CH 201	STELLAR CHROMOSPHERES	BIANCO, C.				

NASA Log of IUE Images

We are happy to publish here a first NASA log of images covering the period of observations until December 31, 1978. The Station hopes to be able to release NASA images in a short time. The procedure to follow for European Astronomers will be the same as for VILSPA images.

THE FOLLOWING IS A GLOSSARY OF OBJECT CLASSIFICATION UTILIZED IN THE OBSERVATORY LOG

00	SUN	34	AZ	67	
01	EARTH	35	AK	68	
02	MOON	36	AL	69	
03	PLANET	37	WDA	70	PLANETARY NEBULA + CENTRAL STAR
04	PLANETARY SATELLITE	38		71	PLANETARY NEBULA - CENTRAL STAR
05	MINOR PLANET	39		72	H II REGION
06	COMET	40	P0-P2	73	REFLECTION NEBULA
07	INTERPLANETARY MEDIUM	41	P3-P9	74	DARK CLOUD (ABSORPTION SPECTRUM)
08		42	PF	75	SUPERNOVA REMNANT
09		43		76	RING NEBULA (SHOCK IONIZED)
10	V C	44	G TYPE	77	
11	WR	45		78	
12	HALE SEQUENCE O	46	K TYPE	79	
13	SUPERGIANT O	47		80	SPIRAL GALAXY
14	OE	48	M TYPE	81	ELLIPTICAL GALAXY
15	OF	49		82	IRREGULAR GALAXY
16	SD O	50	R, N OR S TYPES	83	GLOBULAR GALAXY
17	WD C	51	LONG PERIOD VARIABLE STARS	84	SEYFERT GALAXY
18		52	IRREGULAR VARIABLES	85	QUASAR
19		53	REGULAR VARIABLES	86	RADIO GALAXY
20	B0-B2 V-IV	54	DWARF NOVAE	87	BL LACERTAE OBJECT
21	B3-B5 V-IV	55	CLASSICAL NOVAE	88	EMISSION LINE GALAXY (NON-SEYFERT)
22	B6-B9.5 V-IV	56	SUPERNOVAE	89	
23	B0-B2 III-I	57	SYMBIOTIC STARS	90	INTERGALACTIC MEDIUM
24	B3-B5 III-I	58	T TAUCI	91	
25	B6-B9.5 III-I	59	X-RAY	92	
26		60	SHELL STAR	93	
27	SE	61	ETA CASINAE	94	
28	SEB	62	PULSAR	95	
29	WDB	63	NOVA-LIKE	96	
30	A0-A3 V-IV	64		97	
31	A4-A9 V-IV	65		98	
32	A0-A3 III-I	66		99	
33	A4-A9 III-I				

THE PROGRAM IDENTIFICATION LIST IS DEFINED AS FOLLOWS:

- ACEAK "ULTRAVIOLET STUDIES OF THE STAR A CENTAURI" DANIEL A. KLINGLESNITH
- AFIBV "ULTRAVIOLET OBSERVATIONS OF A AND F STARS" ERIKA BORN WITENSE - UNIVERSITY OF WASHINGTON
- ALEBJ "THE STUDY OF INTERSTELLAR ABSORPTION LINES" E. B. JENKINS - PRINCETON UNIVERSITY
- AVALL "THE DETERMINATION OF THE SEASONAL DYNAMICS OF MASS FROM OBSERVED OZONE AND ATMOSPHERIC DUST VARIATIONS" A. LOHSE-LANE - JET PROPULSION LABORATORY
- BC2DF "STUDY OF 111A CEPHEI STARS" DAVID FISCHL - GSFC
- BCSRB "BINARIES HAVING O-TYPE COMPONENTS" SARA R. HEAP - GSFC
- BSJLC "OBSERVATIONS OF PAINT, HIGH-LATITUDE BLUE STARS" J.L. GREENSTEIN - CALIFORNIA INSTITUTE OF TECHNOLOGY
- CR2JS "ULTRAVIOLET STUDIES OF SYMBIOTIC STARS" JORGE SARADE - INSTITUTO DE ASTRONOMIA Y FISICA DEL ESPACIO, ARGENTINA
- CBNJE "PROBLEMS OF MASS LOSS AND MASS TRANSFER IN CLOSE BI-BARY SYSTEMS" M. J. PLAVEC - UNIVERSITY OF CALIFORNIA, LOS ANGELES
- CCARD "INVESTIGATIONS OF STELLAR CHROMOSPHERES AND CORONAS" ANDREA K. DUPREZ - HARVARD UNIVERSITY OBSERVATORY
- CFJLI "OBSERVATIONS OF CHROMOSPHERIC EMISSION LINES FROM F-B DWARFS AND GIANTS" JEFFREY L. LINSKY - JILA
- CMZGI "GRAVITY DARKENING IN ROTATING STARS AND CIRCUMSTELLAR MATTER IN CLOSE BINARIES" GRAHAM HILL - DOMINION ASTROPHYSICAL OBSERVATORY
- CEEMJ "INVESTIGATIONS OF CIRCUMSTELLAR MATTER" H. N. JOHNSON - LOCKHEED PALO ALTO RESEARCH LAB
- DSDSI "ULTRAVIOLET SPECTROSCOPY OF DWARF AND GIANT B-A STARS" DAVID S. LECHEBONE - GSFC
- EGAMS "ULTRAVIOLET EMISSION LINE SPECTRA IN BRIGHT GALAXIES" ANDREW R. SMITH - GSFC
- GPTLE "GALAXY POPULATION AND INTERGALACTIC GAS" THORNTON PAGE JOHNSON SPACE CENTER
- GQJEO "ULTRAVIOLET SPECTROSCOPY OF PECULIAR GALAXIES" J. BOKE - HALE OBSERVATORIES
- FRBAK "RELION BLUE STARS" DANIEL A. KLINGLESNITH - GSFC
- FWDAK "RELION BLUE STARS" DANIEL A. KLINGLESNITH - GSFC
- HSSRE "HOT SUBDWARF STARS" SARA R. HEAP - GSFC
- ICJNE "INVESTIGATION OF INTERSTELLAR CARBON" J. E. BLACK - UNIVERSITY OF MINNESOTA

IMBDD "THE SEARCH FOR SPECTRA OF INTERSTELLAR MOLECULES AGAINST HOT STARS" B. D. DOWN - GSFC

IMZMS "ULTRAVIOLET OBSERVATIONS OF QUASISTELLAR OBJECTS AND THE INTERGALACTIC MEDIUM" R. SCHMIDT - CAL TECH

MPVE "OBSERVATIONS OF INTERSTELLAR MOLECULES" P. A. VANDEN BOUT - UNIVERSITY OF TEXAS - AUSTIN

LABDS "INTERSTELLAR LAMBDA-ALPHA OBSERVATIONS" B. D. SAVAGE - UNIVERSITY OF WISCONSIN - MADISON

LEDKV "ULTRAVIOLET SPECTRA OF WOLF-RAYET STARS AND MASS LOSING SUPERGIANTS" DONALD K. WEST - GSFC

LTRFW "EXPLORATORY OBSERVATIONS OF THE ULTRAVIOLET SPECTRA OF LATE-TYPE STARS" R. P. WING - OHIO STATE UNIVERSITY

MF2TK "INVESTIGATION OF MASS FLOW IN CLOSE BINARY SYSTEMS" YUJI KONDO - GSFC

MGLRE "OBSERVATIONS OF STELLAR H α II 2800 Å LINES IN MAIN SEQUENCE P-G STARS" L. R. DOHERTY - WASHEBURN OBSERVATORY UNIVERSITY OF WISCONSIN

MJJBH "EVIDENCE FOR MASS LOSS IN THE ULTRAVIOLET SPECTRA OF EARLY-TYPE SUPERGIANTS" J. E. HUTCHINGS - DOMINION ASTROPHYSICAL OBSERVATORY

MSJMW "SPECTROMETRY OF SELECTED EARLY-TYPE STARS, MAGELLANIC WOLF-RAYET STARS AND GALACTIC NUCLEI" J. D. WRAY - UNIVERSITY OF TEXAS

MVDSI "SPECTROSCOPY OF THE DP, AP AND MAGNETIC VARIABLE STARS AT ULTRAVIOLET WAVELENGTHS" DAVID S. LECKRONE - GSFC

MRS5K "SEARCH FOR ULTRAVIOLET EMISSION BY SUPERNOVA REMNANTS" R. S. WOLFF - COLUMBIA UNIVERSITY

OD1AE DISCRETIONARY TIME

OD2AB DISCRETIONARY TIME

OD3AB DISCRETIONARY TIME

OD4AB DISCRETIONARY TIME

OD5AB DISCRETIONARY TIME

OD6AB DISCRETIONARY TIME

OPHWM "ULTRAVIOLET STUDIES OF THE OUTER PLANETS" H. W. MOOS - JOHNS HOPKINS UNIVERSITY

OSPSC "SPECTROSCOPIC OBSERVATIONS OF O, OF, AND WOLF-RAYET STARS" PETER S. CONTI - JILA

PG25S "ULTRAVIOLET SPECTROSCOPY OF PECULIAR ECLIPSING BINARY STARS" SPANLEY SOBIESKI - GSFC

PBCAL PHOTOMETRIC CALIBRATION STARS

PN2AB "OBSERVATIONS OF PLANETARY NEBULAE AND OF GALACTIC H II REGIONS" ALBERT BOGCESS - GSFC

PEZED "ULTRAVIOLET PHOTOELECTRIC PHOTOMETRY OF EMISSION LINE OBJECTS" ENRIQUE DALTAOUI - INSTITUTO DE ASTRONOMIA, UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO

PSMGT "SPECTROPHOTOMETRY OF PLANETS, SATELLITES AND ASTEROIDS" H. G. TOMASKO - UNIVERSITY OF ARIZONA

PSTCO "ULTRAVIOLET SPECTROSCOPY OF PECULIAR GALAXIES AND COMETS" TOBY OWEN - UNIVERSITY OF NEW YORK - STONYBROOK

QO2AE "ULTRAVIOLET OBSERVATIONS OF QUASI-STELLAR OBJECTS" ALBERT BOGCESS - GSFC

PRSTD PHOTOMETRIC STANDARD STARS - FURTHER BROKEN DOWN INTO RP1ST AND RP2ST

RP1ST SEE PRSTD

RP2ST SEE PRSTD

RCRCR "ULTRAVIOLET SPECTRA OF BRIGHTER, LOW REDSHIFT QUASARS AND SOME OTHER RELATED OBJECTS" R. C. ROEDER - DAVID DUNLAP OBSERVATORY UNIVERSITY OF TORONTO

RSLWK "HIGH RESOLUTION STUDIES OF THE ULTRAVIOLET LINES IN O-B STARS" LUCAS W. KAMP - BOSTON UNIVERSITY

RSRLC "SIMULTANEOUS RADIO AND ULTRAVIOLET STUDIES OF RADIO STARS" P. L. SBROWN - NATIONAL RADIO ASTRONOMY OBSERVATORY

RSRLH "OBSERVATIONS OF THE ULTRAVIOLET SPECTRA OF THE PECULIAR RADIO SOURCE OJ 287 AND RELATED OBJECTS" RICHARD AND KAREN HACKNEY - WESTERN KENTUCKY UNIVERSITY

SGABU "STUDY OF THE ULTRAVIOLET SPECTRA OF EARLY-TYPE SUPERGIANTS" ANN B. UNDERHILL - GSFC

SGSBP "ULTRAVIOLET SPECTROSCOPY OF A, F, AND G SUPERGIANTS" SIDNEY B. PARSONS - WARNER AND SWASEY OBSERVATORY CASE WESTERN RESERVE UNIVERSITY

SS2JJ "ULTRAVIOLET SPECTROSCOPY OF SELECTED B AND A STARS" JUN JUGAKU - TOKYO ASTRONOMICAL OBSERVATORY

SX2HC "STUDY OF THE ULTRAVIOLET SPECTRA OF SELECTED GALACTIC X-RAY SOURCES" HENRY GURSKY HARVARD UNIVERSITY

TTCLI "ULTRAVIOLET SPECTRA OF T TAURI STARS" CATHERINE L. IMHOFF - UNIVERSITY OF ARIZONA

VETPS "THE PHYSICAL STATE AND DISTRIBUTION OF GAS IN OUR GALAXY" THEODORE P. STECHER - GSFC

XBPVE "ULTRAVIOLET SPECTROSCOPY OF X-RAY EMITTING BINARY SYSTEMS" PAUL VAN DEN BOUT - UNIVERSITY OF TEXAS - AUSTIN

XSARE "ULTRAVIOLET INVESTIGATIONS OF STELLAR X-RAY SOURCES" ANDREA K. DUPREE - HARVARD COLLEGE OBSERVATORY

ORDERED BY RIGHT ASCENSION
SORTED BY PROGRAM ID

OBJ ID	PRG IC	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	R(β-γ) OR β-γ	DISP R/L	LG - OBJ APERTURE O/C	L/S	EXPOSE TIME		EXPOSURE START TIME			IMAGE SEQ NO	OBSERVERS COMMENTS	
		d	m	s	d	m	s							MIN	SEC	YR	DAY	HR			MIN
CAIWC	HSSBH													000	16	78	095		LWR 1281	LWR	
79 CALWL	MLJBH													000	07	78	208	15	43	SWP 2124	T05*CO2*
79 CALWL														002	05	78	210	15	54	SWP 2144	T05*CO2*
79 CALWL														000	00	78	285	21	58	SWP 2168	
79 CALWL														002	05	78	286	01	30	SWP 2188	
79 CALWL														000	07	78	287	13	37	SWP 2207	T05*CO2*
79 CALWL														000	00	78	287	22	32	LWR 2204	T05*CO2*
79 CALWL														000	00	78	289	22	05	SWP 2298	
79 CALWL	HVDSL													000	00	78	295	01	59	SWP 3094	
79 CALWL														000	00	78	295	11	07	SWP 3077	
79 CALWL														000	00	78	297	06	29	SWP 3097	
79 CALWL														000	00	78	297	12	20	SWP 3125	
79 CALWL														000	00	78	299	08	58	SWP 3222	
79 CALWL														000	00	78	299	13	47	SWP 3160	
79 CALWL	OPHWN													110	00	78	179	11	46	SWP 1878	18*F2*S
79 CALWL																78	179	11	46	SWP 1878	2*S CTR
79 CALWL														000	23	78	130	19	06	LWR 1460	T07*CO1*
79 CALWL														000	08	78	130	22	43	LWR 1473	T07*CO1*
79 CALWL														000	08	78	133	17	31	LWR 1484	T07*CO1*
79 CALWL														000	06	78	133	19	19	LWR 1485	T07*CO1*
79 CALWL														000	06	78	133	19	19	SWP 1535	T05*CO1*
79 CALWL														000	06	78	133	20	22	SWP 1536	T05*CO1*
79 CALWL														000	23	78	133	21	42	LWR 1487	T07*CO1*
79 CALWL														002	07	78	133	22	53	SWP 1528	T07*CO2*
79 CALWL														000	00	78	140	10	22	SWP 1523	
79 CALWL														001	49	78	140	11	23	SWP 1585	
79 CALWL														003	02	78	140	11	23	SWP 1586	CALOV
79 CALWL																78	140	11	23	SWP 1587	
79 CALWL																				LWR 1058	
79 CALWL																				SWP 1074	
79 CALWL																				LWR 1546	
79 CALWL																				SWP 1610	
79 CALWL																				SWP 1611	
79 CALWL																				LWR 1547	
79 CALWL																				LWR 1548	T07*CO16*
79 CALWL																				SWP 1612	T05*CO2*
79 CALWL																				SWP 1613	
79 CALWL																				SWP 1644	NR 93521
79 CALWL																				SWP 1645	CALOV
79 CALWL																				SWP 1646	
79 CALWL																				LWR 1566	40 KB/S
79 CALWL																				SWP 1619	T05*CO2*
79 CALWL																				SWP 1723	T05*CO2*

ORDERED BY RIGHT ASCENSION
SORTED BY PROGRAM ID

OBJ ID	PRG IC	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	R(β-γ) OR β-γ	DISP R/L	LG - OBJ APERTURE O/C	L/S	EXPOSE TIME		EXPOSURE START TIME			IMAGE SEQ NO	OBSERVERS COMMENTS	
		d	m	s	d	m	s							MIN	SEC	YR	DAY	HR			MIN
79 CALWL	PHCAL													000	23	78	156	09	04	LWR 1622	T07*CO16*
79 CALWL														000	05	78	156	17	24	LWR 1029	LWR
79 CALWL														000	08	78	156	19	02	SWP 1075	SWR
79 CALWL														000	08	78	156	19	50	SWP 1726	TFLOOD
79 CALWL														000	07	78	160	19	43	SWP 1728	
79 CALWL														000	23	78	161	19	43	SWP 1643	T07*CO1*
79 CALWL														002	05	78	161	20	12	SWP 1630	T05*CO2*
79 CALWL														000	00	78	166			LWR 1670	
79 CALWL														001	52	78	166	06	01	LWR 1671	UVFLD60*
79 CALWL														003	08	78	166	07	06	LWR 1672	UVFL100
79 CALWL																78	166	15	58	SWP 1789	HULL
79 CALWL																78	166	17	35	SWP 1790	HULL
79 CALWL																78	166	19	20	SWP 1791	HULL20KB
79 CALWL																78	166	20	00	SWP 1792	HULL20KB
79 CALWL																78	173			LWR 1070	LWR40KBS
79 CALWL																78	173			SWP 1076	SWR40KBS
79 CALWL																78	173			SWP 1832	
79 CALWL																78	173	12	49	SWP 1833	60*
79 CALWL																78	173	13	40	LWR 1713	T07*CO1*
79 CALWL																78	173	17	28	SWP 1834	T05*CO2*
79 CALWL																78	173			SWP 1835	SYSTEM5
79 CALWL																78	173			SWP 1836	SWP NULL
79 CALWL																78	173			SWP 1837	SWP NULL
79 CALWL																78	173			SWP 1838	SWP NULL
79 CALWL																78	173			SWP 1839	SWP NULL
79 CALWL																78	173			SWP 1863	
79 CALWL																78	173			SWP 1864	OPSTEST4
79 CALWL																78	173			SWP 1865	OPSTEST4
79 CALWL																78	173			SWP 1866	OPSTEST4
79 CALWL																78	173			SWP 1867	OPSTEST4
79 CALWL																78	173			SWP 1868	OPSTEST4
79 CALWL																78	173			SWP 1869	OPSTEST4
79 CALWL																78	179	07	42	SWP 1864	OPSTEST4
79 CALWL																78	179	07	42	SWP 1873	
79 CALWL																78	179	07	42	SWP 1874	OPSTEST5
79 CALWL																78	179	07	42	SWP 1875	OPSTEST5
79 CALWL																78	179	07	42	SWP 1876	OPSTEST5
79 CALWL																78	179	07	42	SWP 1877	

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OBJ ID	PRG IC	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	R (H- γ) OR H- γ	DISP H/L	LG - OPT APERTURE O/C	OBJ F/L/S	EXPOSE TIME MIN SEC	EPOSURE START TIME			IMAGE SFO NUM	OBSERVERS COMMENTS	
		H	M	S	D	M	S								YR	DAY	HR			MIN
Venus	PSTCO							0.3					0.05	30	78	241	16	00	LWR	2208
Venus								0.3					0.09	00	78	241	17	10	LWR	2209
Venus								0.3					0.15	00	78	243	07	15	SWP	2420
Venus													0.30	00	78	243	08	15	SWP	2421
STAMPING	PSICE							0.3					0.20	00	78	174	15	02	SWP	1841
SKY	RUECK												2.00	00	78	150	11	25	SWP	1670
SKY													3.00	00	78	307	22	17	SWP	3217
SKY	RSBLK												0.05	00	78	188	15	43	SWP	1657
SKY													0.60	00	78	300	00	46	SWP	3165
SKY													1.80	00	78	300	02	13	SWP	3186
LAMCALIB	SGABU												0.00	16	78	172	21	02	LWR	1708
IP CALWL	SX4HG												0.00	06	78	123	15	33	SWP	1472
IP CALWL	VETPS												0.02	05	78	284	00	48	SWP	2407
IP CALWL													0.02	05	78	282	11	18	SWP	3041
IP CALWL	ISAKD												0.02	07	78	128	23	11	SWP	1508
IP CALWL													0.00	06	78	132	23	22	SWP	1529
HD 108	LSDKW	00 03 26	63 24	7.4	15								0.30	00	78	226	13	21	SWP	2292
HD 108		00 03 26	63 24	7.4	15								0.40	00	78	236	11	21	SWP	2386
HD 108		00 03 26	63 24	7.4	15								0.40	00	78	249	01	36	SWP	2501
HD 108		00 03 26	63 24	7.4	15								0.50	00	78	298	10	27	SWP	3137
HD 108	HLJBH	00 03 26	63 24	7.4	15								0.28	00	78	208	17	57	SWP	2126
HD 108	OSFSC	00 03 26	63 24	7.48	15								0.33	00	78	140	16	50	SWP	1589
HD 108		00 03 26	63 24	7.48	15								0.30	00	78	140	17	31	LWR	1526
HD 108		00 03 26	63 24	7.48	15								0.00	30	78	140	18	46	SWP	1590
HD 108		00 03 26	63 24	7.48	15								0.03	30	78	140	18	46	SWP	1590
KKK 335	Q02AB	00 03 45	19 55 47	13.85	84								0.30	00	78	186	15	35	SWP	1918
KKK 335		00 03 45	19 55 47	13.85	84								0.45	00	78	186	16	16	LWR	1782
KKK 335		00 03 45	19 55 47	13.85	84								0.45	00	78	186	17	07	SWP	1919
BUT CAS	CEJLL	00 06 30	58 52 27	2.25	40								0.26	00	78	235	05	15	SWP	2372
BUT CAS		00 06 30	58 52 27	2.25	40								0.11	00	78	235	05	50	LWR	2156
BUT CAS		00 06 30	58 52 27	2.25	40								0.06	30	78	235	06	41	SWP	2393
ZW 2	ZOGB	00 07 57	10 41 46	15.4	85								0.30	00	78	168	17	02	SWP	1802
ZW 2		00 07 57	10 41 46	14.85	85								0.20	00	78	169	07	24	LWR	1686
ZW 2		00 07 57	10 41 46	14.85	85								0.29	00	78	169	07	55	SWP	1867
ZW 2		00 07 57	10 41 46	14.85	85								1.15	00	78	169	11	57	LWR	1687
SX CAS	PG2SS	00 08 04	54 16 48	9.0	34								0.26	00	78	139	19	21	LWR	1519
SX CAS		00 08 04	54 16 48	9.0	34								0.09	00	78	139	19	57	LWR	1519

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OBJ ID	PRG IC	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	R (H- γ) OR H- γ	DISP H/L	LG - OPT APERTURE O/C	OBJ F/L/S	EXPOSE TIME MIN SEC	EPOSURE START TIME			IMAGE SFO NUM	OBSERVERS COMMENTS	
		H	M	S	D	M	S								YR	DAY	HR			MIN
SX CAS	PG2SS	00 06 04	54 16 48	9.0	34								0.24	00	78	139	20	15	SWP	1579
SX CAS		00 06 04	54 16 48	9.0	34								0.28	00	78	139	20	46	SWP	1579
HD 12121		00 08 04	54 16 48	8.9	34								0.36	00	78	221	09	00	LWR	2035
HD 12121		00 08 04	54 16 48	8.9	34								0.36	00	78	221	09	55	SWP	2049
HD 12121		00 08 04	54 16 48	8.9	34								0.36	00	78	221	09	55	SWP	2049
HD 12121		00 08 04	54 16 48	8.9	34								0.16	00	78	222	08	29	LWR	2035
HD 12121		00 08 04	54 16 48	8.9	34								0.16	00	78	223	14	06	LWR	2048
HD 12121		00 08 04	54 16 48	8.9	34								0.16	00	78	223	14	31	LWR	2048
HD 86	SS4JJ	00 10 39	14 54 21	2.8	20								0.00	17	78	296	07	41	LWR	2689
HD 86		00 10 39	14 54 21	2.8	20								0.00	19	78	296	07	46	SWP	3110
AO CAS	CH2GH	00 15 32	51 09 00	6.05	12								0.09	00	78	232	09	51	LWR	2119
AO CAS		00 15 32	51 09 00	6.05	12								0.06	00	78	232	09	37	LWR	2124
AO CAS		00 15 32	51 09 00	6.05	12								0.12	00	78	234	10	33	SWP	2147
AO CAS		00 15 32	51 09 00	6.05	12								0.12	00	78	234	10	33	SWP	2363
AO CAS		00 15 32	51 09 00	6.05	12								0.12	00	78	236	09	34	SWP	2384
AO CAS	HE2YK	00 15 33	51 09 19	6.05	12								0.06	30	78	153	09	58	SWP	1632
AO CAS		00 15 33	51 09 19	6.05	12								0.06	30	78	153	09	58	SWP	1596
AO CAS		00 15 33	51 09 19	6.05	12								0.07	00	78	155	08	05	LWR	1614
AO CAS		00 15 33	51 09 19	6.05	12								0.07	00	78	155	08	05	SWP	1712
AO CAS		00 15 33	51 09 19	6.05	12								0.09	00	78	248	00	39	SWP	2489
DM#41.44	CEJLL	00 15 31	43 44	3.07	48								0.10	00	78	238	12	08	LWR	2180
DM#41.44		00 15 31	43 44	3.07	48								0.06	00	78	238	12	08	LWR	2180
HGC 104	ISAKD	00 21 53	-72 22 06	10	83								0.18	00	78	204	09	20	LWR	1477
HGC 104	SX2HG	00 21 53	-72 22 10	5.75	83								2.00	00	78	204	04	56	SWP	2066
HGC 104	ISAKD	00 21 53	-72 22 10	4.4	83								0.30	00	78	128	22	14	LWR	1461
HGC 104		00 21 53	-72 22 10	4.4	83								1.80	00	78	124	11	07	SWP	1510
KAP CAS	OD4LB	00 30 09	62 39 22	4.24	33								0.10	00	78	252	23	56	SWP	2599
KAP CAS		00 30 09	62 39 22	4.24	33								0.07	00	78	252	23	56	SWP	2592
KAP CAS		00 30 09	62 39 22	4.24	33								0.07	00	78	252	23	56	SWP	2592
KAP CAS		00 30 09	62 39 22	4.24	33								0.07	00	78	252	23	56	SWP	2592
KAP CAS		00 30 09	62 39 22	4.24	33								0.07	00	78	252	23	56	SWP	2592
KAP CAS		00 30 09	62 39 22	4.24	33								0.07	00	78	252	23	56	SWP	259

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OBJ ID	PRGM ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	R(B-V) OR B-V	DISP H/L	LG APERTURE 1/2	OBJ L/S	EXPOSE TIME		EPOSURE TIME				IMAGE NO	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	FR	DAY	HR	MIN		
HD14183	HLJUN	02	15	43	55	56		6.6	30	0.6	L	C	L	001	30	78	210	15	14	SWP	2143
HD14183	HLJUN	02	15	43	55	56		6.6	30	0.6	L	C	L	001	30	78	210	15	14	SWP	2143
HD14183	HLJUN	02	15	43	55	56		6.6	30	0.6	L	C	L	005	00	78	207	08	59	SWP	2969
HD14247	OSFSC	02	23	25	59	39		7.98	15	0.49	L	L	L	005	00	78	200	10	04	SWP	2876
HD14247	OSFSC	02	23	25	59	39		7.98	15	0.49	L	L	L	006	00	78	200	10	04	SWP	2877
HD14247	OSFSC	02	23	25	59	39		7.98	15	0.49	L	L	L	015	00	78	200	12	26	SWP	2879
HD14247	OSFSC	02	23	25	59	39		7.98	15	0.49	L	L	L	005	00	78	200	11	41	SWP	2878
NGC 985	QO4A	02	32	10	-09	00	25	13.28	84		L	C	L	045	00	78	190	18	21	LWR	1803
NGC 985	QO4A	02	32	10	-09	00	25	13.12	84		L	C	L	040	00	78	190	18	18	LWR	1801
LS 61	HLJUN	02	36	41	51	00	50	10.0	23	0.5	L	C	L	030	00	78	208	18	15	SWP	2127
LS 61	HLJUN	02	36	41	51	00	50	10.8	23	0.5	L	C	L	090	00	78	206	05	15	SWP	2951
HD16691	OSFSC	02	39	11	56	42		8.70	15	0.51	L	C	L	007	00	78	200	13	24	SWP	2880
NGC 1068	PP2ED	02	40		-00	13		12.5	84		L	L	L	050	00	78	182	19	53	SWP	1898
NGC 1068	PP2ED	02	40		-00	13		12.5	84		L	L	L	080	00	78	185	17	02	LWR	1778
NGC 1068	PP2ED	02	40		-00	13		12.5	84		L	L	L	120	00	78	187	08	13	LWR	1921
NGC 1068	EGARS	02	40	07	-00	13	31	11	84		L	C	L	005	00	78	177	06	57	LWR	1734
NGC 1068	EGARS	02	40	07	-00	13	31		84		L	C	L	020	00	78	180	21	26	SWP	1881
NGC 1068	EDCKR	02	40	07	-00	13	31		84		L	C	L	080	00	78	165	07	08	SWP	1783
NGC 1068	EDCKR	02	40	07	-00	13	31		84		L	C	L	040	00	78	165	15	22	LWR	1666
P1 CAS	DGSL	02	41	44	-14	04		4.2	27	0.00	H	C	S	003	00	78	189	14	55	SWP	1944
P1 CAS	DGSL	02	41	44	-14	04		4.2	27	0.00	H	C	S	003	00	78	189	15	44	LWR	1799
P1 CAS	DGSL	02	41	44	-14	04		4.2	27	0.00	H	C	S	002	00	78	182	16	42	LWR	1800
P1 CAS	DGSL	02	41	44	-14	04		4.2	27	0.00	H	C	S	005	00	78	189	16	51	SWP	1945
PZ CAS	CH2Gb	02	44	27	69	26	00	6.75	30	0.00	H	C	S	035	00	79	236	02	51	LWR	2163
HD18256	MGLRL	02	53	16	17	49		5.50	41	0.07	H	C	S	045	00	78	213	05	49	LWR	1935
Z1 PBR	MVDL1	02	54	15	31	44		5.1	36	0.11	H	C	S	010	00	78	209	04	27	SWP	3151
Z1 PBR	MVDL1	02	54	15	31	44		5.1	36	0.11	H	C	S	009	05	78	207	07	14	LWR	2721
Z1 PBR	MVDL1	02	54	15	31	44		5.1	36	0.11	H	C	S	013	10	78	209	07	52	SWP	3154
RY CAS	PG2A	03	03	14	67	21	09	8.5	31	0.61	L	C	L	090	00	78	222	06	35	SWP	2253
RY CAS	CBMJP	03	03	15	67	23	08	8.5	31	0.61	L	C	L	080	00	79	230	05	01	SWP	2324
RY CAS	PG3S	03	03	15	67	23	08	8.5	31	0.61	L	C	L	030	00	78	222	05	29	LWR	2034
RY CAS	PG3S	03	03	15	67	23	08	8.5	31	0.61	L	C	L	020	00	78	222	06	06	LWR	2034
RY CAS	PG3S	03	03	15	67	23	08	8.5	31	0.61	L	C	L	025	00	78	223	15	35	LWR	2049
RY CAS	PG3S	03	03	15	67	23	08	8.5	31	0.61	L	C	L	060	00	78	224	14	24	SWP	2275
RY CAS	PG3S	03	03	15	67	23	08	8.5	31	0.61	L	C	L	025	00	78	224	15	53	SWP	2059

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		H	M	S	D	M	S							MIN	SEC	FR	DAY	HR	MIN		
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	009	20	78	293	13	28	SWP	3072
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	010	00	78	293	13	41	LWR	2655
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	016	00	78	297	04	11	SWP	3177
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	011	00	78	297	04	43	SWP	3696
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	035	00	78	297	05	13	SWP	3118
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	014	00	78	297	10	26	SWP	3123
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	009	30	78	297	10	45	SWP	2699
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	015	00	78	299	03	37	SWP	3124
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	010	30	78	299	00	37	SWP	3275
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	033	00	78	299	00	67	LWR	3148
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	010	00	78	299	01	34	LWR	2717
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	009	30	78	299	02	03	SWP	3149
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	030	00	78	299	02	03	LWR	2718
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	009	30	78	299	03	37	SWP	3150
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	016	00	78	299	05	33	SWP	3152
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	009	30	78	299	06	12	LWR	2724
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	012	00	78	299	06	41	LWR	3153
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	009	30	78	299	12	14	LWR	3158
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	030	00	78	299	13	04	SWP	3159
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	016	00	78	299	13	04	SWP	3159
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	009	30	78	299	13	04	SWP	3159
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	016	00	78	299	13	04	SWP	3159
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	009	30	78	299	13	04	SWP	3159
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	016	00	78	299	13	04	SWP	3159
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	009	30	78	299	13	04	SWP	3159
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	016	00	78	299	13	04	SWP	3159
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C	S	009	30	78	299	13	04	SWP	3159
AR1	MVCSL	03	09	15	27	04		5.7	27	-0.10	H	C									

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OBJ ID	PRCG IC	TARGET RA		TARGET DEC		VIS MAG	OBJ CLAS	R (R-V) OR R-V	DISP H/L	LG - APERTURE O/C	OBJ SPEED L/S	EXPOSE TIME		EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS	
		H	M	S	D							M	S	MIN	SEC	YR			DAY
HD22468	CEJLL	03	34	13	00	26	44	-0.01	L	C	S	060	00	78	229	13	28	SWP	2321
HD22468	CEJLL	03	34	13	00	26	44	-0.01	L	C	S	015	00	78	231	05	41	LWR	2310
HD22468	CEJLL	03	34	13	00	26	44	-0.01	L	C	S	060	00	78	231	06	07	SWP	2335
HD22928	IMPVB	03	39	21	47	38	21	00.04	H	C	S	001	05	78	247	01	29	SWP	2471
HD22180	ICJHB	03	41	17	32	07	53	3.92	H	C	S	002	20	78	266	11	19	SWP	2738
HD22180	ICJHB	03	41	17	32	07	53	3.92	H	C	S	002	40	78	266	11	26	LWR	2444
HD22180	ICJHB	03	41	17	32	07	53	3.92	H	C	S	002	20	78	266	12	31	SWP	2739
HD22180	ICJHB	03	41	17	32	07	53	3.92	H	C	S	004	40	78	266	12	42	LWR	2445
HD22180	IMPVB	03	41	11	32	09	03	3.32	H	C	S	001	20	78	245	01	14	SWP	2437
HD22180	IMPVB	03	41	11	32	09	03	3.32	H	C	S	001	20	78	245	01	06	LWR	2243
11 643	IMBDD	03	41	25	32	00	23	4.5	L	C	S	016	00	78	275	11	44	SWP	2833
31 643	IMBDD	03	41	25	32	00	23	4.5	L	C	S	007	00	78	275	12	08	LWR	2524
31 643	IMBDD	03	41	25	32	00	23	4.5	L	C	S	014	00	78	275	12	23	LWR	2524
HR 1135	AFEDW	03	41	47	42	25	20	3.77	L	C	S	015	00	78	260	15	36	SWP	2673
HD22408	ICJHL	03	42	46	24	12	47	3.67	H	C	S	001	00	78	266	14	19	LWR	2446
HD22408	ICJHL	03	42	46	24	12	47	3.67	H	C	S	005	15	78	266	14	27	SWP	2740
HD22408	ICJHL	03	42	46	24	12	47	3.67	H	C	S	001	40	78	270	01	54	SWP	2472
HD22408	ICJHL	03	42	46	24	12	47	3.67	H	C	S	004	45	78	270	02	07	SWP	2779
HD22408	ICJHL	03	42	46	24	12	47	3.67	H	C	S	007	00	78	270	03	08	SWP	2873
HD22408	ICJHL	03	42	46	24	12	47	3.67	H	C	S	007	00	78	270	04	22	SWP	2780
HD22408	ICJHL	03	42	46	24	12	47	3.67	H	C	S	015	00	78	270	04	33	SWP	2474
HD22408	ICJHL	03	42	46	24	12	47	3.67	H	C	S	007	00	78	270	05	33	LWR	2781
HD22408	ICJHL	03	42	46	24	12	47	3.67	H	C	S	007	00	78	270	14	33	LWR	2480
HD22388	SS4JJ	03	46	50	24	12	47	5.1	H	C	S	004	30	78	294	09	53	SWP	3095
HD22388	SS4JJ	03	46	50	24	12	47	5.1	H	C	S	001	00	78	294	10	33	LWR	2562
HD22388	SS4JJ	03	46	50	24	12	47	5.1	H	C	S	002	00	78	296	11	45	SWP	2562
HD22388	SS4JJ	03	46	50	24	12	47	5.1	H	C	S	004	30	78	296	12	19	SWP	3113
HD223408	IMEVB	03	4	51	24	13	22	3.17	H	C	S	003	05	78	245	02	31	SWP	2438
HD223408	ICJHB	03	44	21	23	47	39	4.18	H	C	S	002	30	78	270	12	46	LWR	2478
HD223408	ICJHB	03	44	21	23	47	39	4.18	H	C	S	004	30	78	270	13	44	LWR	2785
HD223408	ICJHB	03	44	21	23	47	39	4.18	H	C	S	004	00	78	270	14	01	LWR	2479
HD223408	ICJHB	03	44	21	23	47	39	4.18	H	C	S	008	00	78	270	14	01	LWR	2796
HD223408	ICJHB	03	44	21	23	47	39	4.18	H	C	S	008	00	78	270	14	57	SWP	2787
HD223408	IMEVB	03	43	24	23	49	22	4.2	H	C	S	005	00	78	245	05	16	SWP	2441
HD223753	SS4JJ	03	46	22	23	16	09	5.4	H	C	S	020	00	78	294	11	07	SWP	3086
HD223753	SS4JJ	03	46	22	23	16	09	5.4	H	C	S	010	00	78	294	11	39	LWR	2666
HD223753	IMEVB	03	46	23	23	16	09	5.5	H	C	S	014	00	78	245	03	24	SWP	2439
HD223753	IMEVB	03	46	23	23	16	09	5.5	H	C	S	020	00	78	245	04	10	SWP	2440

ORDERED BY RIGHT ASCENSION
SORTED BY PROGRAM ID

OBJ ID	PRCG IC	TARGET RA		TARGET DEC		VIS MAG	OBJ CLAS	R (R-V) OR R-V	DISP H/L	LG - APERTURE O/C	OBJ SPEED L/S	EXPOSE TIME		EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS	
		H	M	S	D							M	S	MIN	SEC	YR			DAY
HD223862	SS4JJ	03	46	12	23	59	08	-0.08	H	C	S	010	00	78	294	07	30	LWR	2663
HD223862	SS4JJ	03	46	12	23	59	08	-0.08	H	C	S	020	00	78	294	07	53	SWP	3084
HD223862	SS4JJ	03	46	12	23	59	08	-0.08	H	C	S	010	00	78	296	09	42	LWR	2690
HD223862	SS4JJ	03	46	12	23	59	08	-0.08	H	C	S	017	00	78	296	09	57	LWR	3111
HD223862	SS4JJ	03	46	12	23	59	08	-0.08	H	C	S	016	00	78	296	10	27	LWR	2691
HD223862	SS4JJ	03	46	12	23	59	08	-0.08	H	C	S	012	00	78	296	11	01	SWP	3112
HD24358	IMEVB	03	50	53	31	44	29	00.32	H	C	S	002	00	78	247	04	03	SWP	2474
HD223198	VEIPS	03	50	33	31	44	29	00.33	H	C	S	001	20	78	292	12	01	SWP	3042
HD223198	VEIPS	03	50	33	31	44	29	00.33	H	C	S	001	40	78	292	12	31	SWP	3043
HD223198	VEIPS	03	50	33	31	44	29	00.33	H	C	S	001	40	78	292	13	08	SWP	3044
HD223198	VEIPS	03	50	33	31	44	29	00.33	H	C	S	001	40	78	292	13	38	SWP	3045
HD223198	VEIPS	03	50	33	31	44	29	00.33	H	C	S	001	20	78	292	13	58	SWP	3051
HD223198	VEIPS	03	50	33	31	44	29	00.33	H	C	S	001	20	78	292	14	03	SWP	3052
HD223198	VEIPS	03	50	33	31	44	29	00.33	H	C	S	001	20	78	292	14	33	SWP	3053
HD223198	VEIPS	03	50	33	31	44	29	00.33	H	C	S	001	20	78	292	15	00	SWP	3054
HD223198	VEIPS	03	50	33	31	44	29	00.33	H	C	S	001	20	78	292	15	31	SWP	3055
HD223198	VEIPS	03	50	33	31	44	29	00.33	H	C	S	001	20	78	292	16	01	SWP	3056
HD223198	VEIPS	03	50	33	31	44	29	00.33	H	C	S	001	20	78	292	16	30	SWP	3057
HD24534	IMBDD	03	52	15	30	54	00	6.0	H	C	S	024	00	78	275	13	10	SWP	2834
HR 2088	SX2HG	03	52	15	30	54	00	7.0	L	C	S	000	12	78	204	17	09	SWP	2089
HR 2088	SX2HG	03	52	15	30	54	00	7.0	L	C	S	000	12	78	204	17	16	SWP	2089
HD224534	XSAKD	03	52	15	30	54	00	7.0	H	C	S	021	00	78	203	15	14	SWP	2082
HD224534	XSAKD	03	52	15	30	54	00	7.0	H	C	S	014	00	78	203	15	45	LWR	1874
HD224534	XSAKD	03	52	15	30	54	00	7.0	H	C	S	000	12	78	203	16	25	SWP	2083
HD224534	XSAKD	03	52	15	30	54	00	7.0	H	C	S	000	12	78	203	16	32	SWP	2083
HD224760	IMPVB	03	54	29	37	52	20	30.10	H	C	S	000	21	78	247	02	26	SWP	2472
HD224912	IMPVB	03	54	29	37	52	20	30.32	H	C	S	002	00	78	247	03	15	SWP	2473
HD224912	VEIPS	03	55	44	35	34	12	4.1	H	C	S	001	40	78	292	05	20	SWP	3029
HD224912	VEIPS	03	55	44	35	34	12	4.1	H	C	S	001	40						

ORDERED BY RIGHT ASCENSION
SORTED BY PROGRAM ID

OBJ ID	PRG IC	TARGET RA		TARGET DEC		VIS MAG	OBJ CLASS	B (B-V) OR B-V	DISP P/L	LG - OBJ APERTURE C/C L/S	EXPOSE TIME MIN SEC	EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS				
		H	M	S	D							H	M	YR			DAY	HR	MIN	
TAD9 ERI	MVDSL	03	57	47	-74	09	4.7	27	-0.14	H	C	S	015	00	78	293	12	02	SWP	3071
LAM TAM	CMZGH	03	57	54	12	21	00	3.7	0.38	H	C	S	003	30	78	232	08	10	LWR	2122
LAM TAM	CMZGH	03	57	54	12	21	00	3.7	0.38	H	C	S	001	40	78	234	06	17	LWR	2144
LAM TAM	CMZGH	03	57	54	12	21	00	3.7	0.36	H	C	S	003	20	78	234	06	26	SWP	2361
BR0405	INZMS	04	05	27	-12	15	32	14.6	0.55	L	O	L	180	00	78	102	12	42	SWP	1356
BR0405	INZMS	04	05	27	-12	15	32	14.6	0.55	L	O	L	180	00	78	102	12	42	LWR	1310
NGC1514	HSSAb	04	06	03	30	39	00	9.4	0.55	L	O	L	025	00	78	094	00	50	SWP	1308
NGC1514	HSSAb	04	06	03	30	39	00	9.4	0.55	L	O	L	025	00	78	094	18	20	SWP	1313
NGC1514	HSSAb	04	06	03	30	39	00	9.4	0.55	L	O	L	025	00	78	094	20	27	LWR	1279
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	LWR	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31	44	9.9	0.55	L	O	L	005	00	78	244	14	20	SWP	2232
NGC1535	EN2Ab	04	11	57	-12	31														

ORDERED BY RIGHT ASCENSION
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OBJ ID	PRCG ID	TARGET RA			TARGET DEC			VTS MAG	OBJ CLASS	δ (B-V) OR δ-V	DISP H/L	LG - OBJ APERTURE O/C	OBJ L/S	EXPOSE TIME		EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR		
ALF CAM	OD4A2	04 49 03	66 15 39	4.2	13	EO. 13	H	C	007 00	78 252 15 12	LWR	2311								
ALF CAM		04 49 03	66 15 39	4.2	13	EO. 13	H	C	004 00	78 252 01 44	LWR	2690								
ALF CAM		04 49 03	66 15 39	4.2	13	EO. 13	H	C	003 00	78 252 04 26	LWR	2594								
ALF CAM		04 49 03	66 15 39	4.2	13	EO. 13	H	C	003 00	78 252 05 01	LWR	2595								
ALF CAM		04 49 03	66 15 39	4.2	13	EO. 13	H	C	003 00	78 252 07 29	LWR	2548								
ALF CAM		04 49 03	66 15 39	4.2	13	EO. 13	H	C	003 00	78 252 08 08	LWR	2549								
ALF CAM		04 49 03	66 15 39	4.2	13	EO. 13	H	C	003 00	78 252 10 10	LWR	2602								
ALF CAM		04 49 03	66 15 39	4.2	13	EO. 13	H	C	003 00	78 252 15 46	LWR	2611								
HD 10614	ICJHB	04 49 04	66 15 39	4.29	12	EO. 34	H	C	001 12	78 115 01 05	LWR	1384								
HD 10614		04 49 04	66 15 39	4.29	12	EO. 34	H	C	002 30	78 115 01 05	LWR	1412								
HD 10614	IMEVB	04 49 04	66 15 39	4.29	12	EO. 34	H	C	006 00	78 247 04 55	LWR	2475								
HD 10614		04 49 04	66 15 39	4.29	12	EO. 34	H	C	001 47	78 247 04 55	LWR	2263								
HD 11291	LABDS	04 52 34	30 28 22	7.2	26	EO. 18	L	C	000 50	78 272 08 49	LWR	2495								
HD 11291		04 52 34	30 28 22	7.2	26	EO. 18	L	C	001 20	78 272 08 54	LWR	2495								
HD 11291		04 52 34	30 28 22	7.2	26	EO. 18	L	C	004 00	78 272 09 09	LWR	2798								
HD 11291		04 52 34	30 28 22	7.2	26	EO. 18	L	C	003 00	78 272 09 09	LWR	2799								
AB AUR	TTCLI	04 52 34	30 28 22	7.0	22	EO. 14	L	C	001 30	78 211 04 39	LWR	1919								
AB AUR		04 52 34	30 28 22	7.0	22	EO. 14	L	C	001 00	78 211 04 39	LWR	1919								
AB AUR		04 52 34	30 28 22	7.1	22	EO. 14	L	C	005 00	78 211 05 27	LWR	2149								
AB AUR		04 52 34	30 28 22	7.1	22	EO. 14	L	C	005 00	78 211 05 51	LWR	2149								
AB AUR		04 52 34	30 28 22	7.1	22	EO. 14	L	C	1.0 00	78 211 05 51	LWR	1920								
HD 11964	C8HJP	04 58 22	43 45 12	3.0	40	EO. 30	L	C	005 00	78 225 02 48	LWR	2276								
HD 11964		04 58 22	43 45 12	3.0	40	EO. 30	L	C	002 30	78 225 02 50	LWR	2276								
HD 11964		04 58 22	43 45 12	3.0	40	EO. 30	L	C	001 30	78 225 02 57	LWR	2060								
HD 11964		04 58 22	43 45 12	3.0	40	EO. 30	L	C	003 00	78 225 03 03	LWR	2060								
HD 11964	FG2SS	04 58 22	43 45 12	3.0	40	EO. 30	L	C	000 24	78 223 17 39	LWR	2267								
HD 11964		04 58 22	43 45 12	3.0	40	EO. 30	L	C	001 00	78 223 17 46	LWR	2267								
R 67	BLJBH	04 59 48	-70 16	11.4	50	E 0.3	L	C	011 00	78 209 18 25	LWR	2134								
R 67		04 59 48	-70 16	11.4	27	E 0.3	L	C	010 00	78 290 00 00	LWR	3000								
R 67		04 59 48	-70 16	11.4	27	E 0.3	L	C	015 00	78 290 00 29	LWR	2627								
HD 270952	OSFSC	05 01 13	-65 56	12.06	15	EO. 17	L	C	010 01	78 144 23 07	LWR	1628								
HD 22633	MVDSL	05 02 51	33 51	7.1	27	-0.04	H	C	061 00	78 296 22 44	LWR	3115	PHS20.50							
HD 22633		05 02 51	33 51	7.1	27	-0.04	H	C	035 00	78 296 23 50	LWR	2694								
HD 22633		05 02 51	33 51	7.1	27	-0.04	H	C	154 00	78 297 00 30	LWR	3116								
HD 22633		05 02 51	33 51	7.1	27	-0.04	H	C	035 00	78 297 03 10	LWR	2695	PHS20.53							
SW AUR	TTCLI	05 04 34	30 20 14	10.4	58	EO. 00	L	C	060 00	78 211 08 40	LWR	1921								
SW AUR		05 04 34	30 20 14	10.4	58	EO. 00	L	C	080 00	78 212 05 24	LWR	1925								
SW AUR		05 04 34	30 20 14	10.4	58	EO. 00	L	C	180 00	78 212 06 06	LWR	2158								
SW AUR		05 04 34	30 20 14	10.4	58	EO. 00	L	C	020 00	78 212 10 09	LWR	1926								

ORDERED BY RIGHT ASCENSION
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OBJ ID	PRCG ID	TARGET RA			TARGET DEC			VTS MAG	OBJ CLASS	δ (B-V) OR δ-V	DISP H/L	LG - OBJ APERTURE O/C	OBJ L/S	EXPOSE TIME		EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR		
108 TAB	HGLRD	05 04 19	-18 35	4.90	44	E -0.45	H	C	050 00	78 304 04 53	LWR	2772								
68 BRI		05 06 15	-08 31	5.11	41	E -0.45	H	C	035 00	78 304 06 44	LWR	2773								
HD 33904	MVDSL	05 10 41	-16 15	3.3	27	EO. 00	H	C	003 00	78 100 18 51	LWR	1345								
HD 33904		05 10 41	-16 15	3.3	27	EO. 00	H	C	001 47	78 100 20 13	LWR	1301								
HD 33904		05 10 41	-16 15	3.3	27	EO. 00	H	C	005 00	78 100 21 48	LWR	1346								
NGC 1851	XSAKL	05 12 28	-40 06 12	7.13	83	EO. 14	L	C	180 00	78 131 12 33	LWR	1521								
NGC 1851		05 12 28	-40 06 12	7.13	83	EO. 14	L	C	060 00	78 203 13 02	LWR	1873								
ALF AUR	CEJLL	05 12 59	45 57	0.1	44	EO. 80	H	C	016 00	78 093 12 03	LWR	1308								
ALF AUR		05 12 59	45 57	0.1	44	EO. 80	H	C	120 00	78 093 13 23	LWR	1305								
ALF AUR		05 12 59	45 57	0.1	44	EO. 80	H	C	001 12	78 093 16 49	LWR	1276								
ALF AUR		05 12 59	45 57	0.1	44	EO. 80	H	C	003 00	78 093 17 47	LWR	1277								
ALF AUR		05 12 59	45 57	0.09	44	EO. 00	L	C	090 00	78 121 17 39	LWR	1454								
ALF AUR		05 12 59	45 57	0.09	44	EO. 00	L	C	006 00	78 227 03 11	LWR	2296								
ALF AUR		05 12 59	45 57	0.09	44	EO. 00	L	C	002 00	78 227 03 44	LWR	2296								
ALF AUR		05 12 59	45 57	0.09	44	EO. 00	L	C	001 30	78 227 04 47	LWR	2297								
ALF AUR		05 12 59	45 57	0.09	44	EO. 00	L	C	001 30	78 227 04 57	LWR	2297								
ALF AUR		05 12 59	45 57	0.09	44	EO. 00	L	C	000 40	78 227 05 05	LWR	2078								
ALF AUR		05 12 59	45 57	0.09	44	EO. 00	L	C	019 00	78 227 05 05	LWR	2298								
ALF AUR		05 12 59	45 57	0.09	44	EO. 00	L	C	180 00	78 227 05 05	LWR	2298								
ALF AUR		05 12 59	45 57	0.09	44	EO. 00	L	C	060 00	78 227 05 05	LWR	2352								
HD 34078	IMEVB	05 13 01	34 15	5.6	12	EO. 00	H	C	019 00	78 245 06 09	LWR	2442								
R 84	BLJBH	05 14 18	-69 35	11.7	13	E 0.2	L	C	010 00	78 298 04 44	LWR	2116								
R 84		05 14 18	-69 35	11.7	13	E 0.2	L	C	003 00	78 298 05 02	LWR	2116								
R 84		05 14 18	-69 35	11.7	13	E 0.2	L	C	003 00	78 298 12 22	LWR	2630								
HD 34411	HGLRD	05 15 37	40 03	4.74	44	E -0.62	H	C	060 00	78 213 09 12	LWR	1937								
LAP AUR		05 15 37	40 03	4.74	44	E -0.62	H	C	040 00	78 308 07 50	LWR	2818								
HD 34452	MVDSL	05 15 42	33 42	5.4	27	-0.19	H	C	008 00	78 295 12 14	LWR	3098	PHS20.4							
HD 34452		05 15 42	33 42	5.4	27	-0.14	H	C	005 42	78 295 12 27	LWR	2678	PHS20.4							
HD 34452		05 15 42	33 42	5.4	27	-0.14	H	C	014 00	78 295 12 36	LWR	3100	PHS20.4							
HD 34452		05 15 42	33 42	5.4	27	-0.13	H	C	005 00	78 297 08 26	LWR	3121	PHS20.15							
HD 34452		05 15 42	33 42	5.4	27	-0.13	H	C	005 00	78 297 08 33	LWR	2648	PHS20.15							
HD 34452		05 15 42	33 42	5.4	27	-0.13	H	C	018 00	78 297 09 07	LWR	3122	PHS20.17							
HD 34452		05 15 42	33 42	5.4	27	-0.13	H	C	006 30	78 297 09 07	LWR	3146	PHS20.18							
HD 34452		05 15 42	33 42	5.4	27	-0.13	H	C	005 31	78 298 03 14	LWR	2745	PHS20.18							
HD 34452		05 15 42	33 42	5.4	27	-0.13	H	C	006 45	78 298 03 40	LWR	2723	PHS20.18							
HD 34452		05 15 42	33 42	5.4	27	-0.13	H	C	003 00	78 299 04 10	LWR	3156	PHS20.00							
HD 34452		05 15 42	33 42	5.4	27	-0.13	H	C	005 12	78 299 10 43	LWR	2724	PHS20.01							
HD 34452		05 15 42	33 42	5.4	27	-0.13	H	C	009 00	78 299 11 12	LWR	3177	PHS20.02							
LAP LEP	PHCAL	05 17 16	-13 17 17	4.29	20	EO. 03	L	C	000 01	78 126 22 28	LWR	1495								
LAP LEP		05 17 16	-13 17 17	4.29	20	EO. 03	L	C	000 02	78 126 22 29	LWR	1496								

ORDERED BY RIGHT ASCENSION
SORTED BY PROGRAM ID

OBJ ID	PRG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E(B-V) OR B-V	DISP H/L	LG - OBJ APERTURE O/C	OBJ L/S	EXPOSE TIME		EXPOSURE TIME				IMAGE SEQ NO	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR	MIN		
LAP 1767	PHCAL	05	17	16	-13	13	37	4.29	20	EO.03	L	C	S	000	02	78	126	23	23	SWP	2497
LAP 1767	PHCAL	05	17	16	-13	13	37	4.29	20	EO.03	L	C	S	000	04	78	126	23	23	SWP	2499
LAP 1767	PHCAL	05	17	16	-13	13	37	4.29	20	EO.03	L	C	S	000	06	78	126	23	23	SWP	2500
LAP 1767	PHCAL	05	17	16	-13	13	37	4.29	20	EO.03	L	C	S	000	08	78	126	23	23	SWP	2501
HR 1767	AFEBV	05	18	38	-5	39	32	5.5	41	EO.51	H	C	S	060	00	78	267	05	46	LWR	2452
HR 1767	AFEBV	05	18	38	-5	39	32	5.5	41	EO.51	H	C	S	120	00	78	267	05	46	LWR	2453
HR 1767	AFEBV	05	18	38	-5	39	32	5.5	41	EO.51	H	C	S	180	00	78	267	05	46	LWR	2454
UV AUR	LTBFB	05	16	33	32	27	51	11.0	50		L	C	L	030	00	78	111	23	29	LWR	1359
HR 64	BLJBB	05	21	11	-6	5	48	10.0	30		L	C	S	007	00	78	208	06	15	SWP	2117
HR 266	BLJBB	05	21	11	-6	5	48	10.0	30		L	C	S	007	00	78	208	06	15	SWP	2117
HD 35411	HG1BL	05	21	30	17	20		4.98	41	E.02	H	C	S	050	00	78	213	07	21	LWR	1936
HD 35411	HG1BL	05	21	30	17	20		4.98	41	E.04	H	C	S	050	00	78	308	10	24	LWR	2820
HD 35411	HF2YK	05	21	58	-02	25	26	3.35	20		H	C	S	000	21	78	248	14	31	SWP	2498
HD 35411	HF2YK	05	21	58	-02	25	26	3.35	20		H	C	S	005	22	78	248	14	31	SWP	2281
HR 99	BLJBB	05	23	06	-6	05	00	11.5	27	EO.3	L	C	L	007	00	78	286	12	24	SWP	2955
HR 99	BLJBB	05	23	06	-6	05	00	11.5	27	EO.3	L	C	L	020	00	78	290	01	20	SWP	3001
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	001	40	78	232	06	43	LWR	2120
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383
HR 1011	CH2GB	05	24	12	03	03	00	4.58	20	EO.02	H	C	S	003	30	78	236	08	44	SWP	2383

ORDERED BY RIGHT ASCENSION
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OBJ ID	PRCG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	B (H-V) OR B-V	DISP H/L	IG APPR O/C	OBJ APPR L/S	EXPOSE TIME		EXPOSURE START TIME				IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR	MIN		
HD37041	SI2HG	05	32	55	-05	26	50	5.07	12	20.22	H	C	S	003	30	78	119	22	24	SWP	1439
B 37042	LABDS	05	32	53	-05	26	52	6.1	20	20.17	L	C	S	000	03	78	113	01	31	LWR	1368
B 37042	LABDS	05	32	53	-05	26	52	6.1	20	20.17	L	C	S	000	03	78	113	01	31	LWR	1368
THLORIN	SI2HG	05	32	58	-05	26	52	6.37	20		H	C	S	009	00	78	119	23	49	SWP	1440
HD 37043	IMEVB	05	32	53	-05	26	56	2.77	12	20.07	H	C	S	000	09	78	247	08	54	SWP	2478
HD 37043	IMEVB	05	32	53	-05	26	56	2.77	12	20.07	H	C	S	000	15	78	247	09	00	LWR	2266
HD 37043	IMEVB	05	32	53	-05	26	56	2.77	12	20.07	H	C	S	000	27	78	247	09	33	SWP	2479
HD 37128	IMEVB	05	33	40	-01	14	14	1.70	20	20.08	H	C	S	000	05	78	247	10	38	SWP	2480
HD 37128	IMEVB	05	33	40	-01	14	14	1.70	20	20.08	H	C	S	000	05	78	247	10	38	LWR	2267
37128	MLJBH	05	33	40	-11	3		1.7	23	20.00	H	C	S	000	18	78	287	10	46	SWP	2971
V3800RT	ITCLI	05	34	00	-06	44	36	10.3	58		L	C	S	008	00	78	212	11	26	LWR	1927
V3800RT	ITCLI	05	34	00	-06	44	36	10.3	58		L	C	S	008	00	78	212	11	43	LWR	1927
HD 37202	LSCKW	05	34	39	-21	36		3.0	26	20.13	H	C	S	000	40	78	236	12	58	SWP	2387
XT TAU	LSCKW	05	34	39	-21	36		3.0	26	20.13	H	C	S	000	36	78	261	14	42	SWP	2682
ZST TAU	LSCKW	05	34	39	-21	36		3.0	26	20.13	H	C	S	000	40	78	298	11	48	SWP	3138
ZST TAU	LSCKW	05	34	39	-21	36		3.0	26	20.13	H	C	S	000	20	78	298	11	51	LWR	2707
AD54241B	CHBMJ	05	36	16	-02	37	17	6.5	27	20.09	H	C	S	009	00	78	219	17	21	LWR	2008
AD54241B	CHBMJ	05	36	16	-02	37	17	6.5	27	20.09	H	C	S	015	00	78	219	17	37	SWP	2230
AD54241B	CHBMJ	05	36	16	-02	37	17	6.5	27	20.09	H	C	S	005	00	78	219	18	15	SWP	2231
HD 37674	LABDS	05	36	49	-08	24	30	10.92	26	20.4	L	C	S	000	00	78	112	18	22	LWR	1364
HD 37674	LABDS	05	36	49	-08	24	30	10.92	26	20.4	L	C	S	010	00	78	112	19	31	LWR	1365
HD 37674	LABDS	05	36	49	-08	24	30	10.92	26	20.4	L	C	S	007	00	78	112	20	13	SWP	1400
HD 37674	LABDS	05	36	49	-08	24	30	10.92	26	20.4	L	C	S	005	00	78	112	21	12	LWR	1366
R 129	MLJBH	05	38	06	-08	56	42	11.6	13	20.1	L	C	S	015	00	78	208	07	31	SWP	2118
R 129	MLJBH	05	38	06	-08	56	42	11.6	13	20.1	L	C	S	015	00	78	208	07	55	SWP	2118
R 129	MLJBH	05	38	06	-08	56	42	11.6	13	20.1	L	C	S	010	00	78	290	12	48	SWP	3009
HD 37742	IMEVB	05	38	14	-01	58		1.9	12	20.09	H	C	S	000	06	78	247	11	50	SWP	2481
HD 37742	IMEVB	05	38	14	-01	58		1.9	12	20.09	H	C	S	000	04	78	247	11	50	LWR	2268
37742	MLJBH	05	38	14	-01	58		1.8	13	20.1	H	C	S	000	10	78	289	22	54	SWP	2999
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	004	00	78	269	00	42	SWP	2765
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	007	00	78	269	00	52	SWP	2765
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	000	00	78	269	00	52	SWP	2765
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	040	00	78	269	09	40	SWP	2767
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	005	00	78	272	07	59	SWP	2798
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	005	00	78	272	07	59	LWR	2494
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	001	10	78	112	12	44	SWP	1400
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	010	10	78	112	13	45	SWP	1401
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	005	15	78	112	13	45	SWP	1401
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	020	00	78	112	14	00	LWR	1364
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	007	00	78	112	15	00	LWR	1364
HD 38268	LABDS	05	39	03	-09	37	35	9.4	15	20.4	L	C	S	007	00	78	112	16	36	LWR	1363

ORDERED BY RIGHT ASCENSION
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OBJ ID	PRCG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	B (H-V) OR B-V	DISP H/L	IG APPR O/C	OBJ APPR L/S	EXPOSE TIME		EXPOSURE START TIME				IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR	MIN		
HD 38268	LABDS	05	39	04	-09	03	46	11.13	11	20.15	L	C	S	003	00	78	112	16	16	LWR	1363
HD 38268	LABDS	05	39	10	-09	03	46	11.13	11	20.15	L	C	S	005	00	78	269	09	40	SWP	2767
HD 38268	LABDS	05	39	10	-09	03	46	11.13	11	20.15	L	C	S	005	00	78	269	09	52	SWP	2767
HD 38268	LABDS	05	39	10	-09	03	46	11.13	11	20.15	L	C	S	005	00	78	272	07	59	SWP	2798
HD 38268	LABDS	05	39	10	-09	03	46	11.13	11	20.15	L	C	S	006	00	78	272	07	59	LWR	2494
NGC 2022	FN2AB	05	39	22	-09	03	54	12	70		L	C	S	005	00	78	246	15	24	LWR	2258
NGC 2022	FN2AB	05	39	22	-09	03	54	12	70		L	C	S	002	00	78	246	15	12	SWP	2464
HD 38666	ICJHB	05	44	08	-32	19	27	5.16	12	20.02	H	C	S	001	15	78	264	13	19	LWR	2423
HD 38666	ICJHB	05	44	08	-32	19	27	5.16	12	20.02	H	C	S	001	25	78	264	13	27	LWR	2717
HD 38666	PHCAL	05	44	08	-32	19	27	5.16	12	20.06	H	C	S	000	49	78	133	21	20	LWR	1486
HD 38666	PHCAL	05	44	08	-32	19	27	5.16	12	20.06	H	C	S	000	46	78	133	22	35	SWP	1537
HD 38666	XBEVB	05	44	08	-32	19	27	5.17	12	20.02	H	C	S	001	40	78	123	20	07	LWR	1435
HD 38666	XBEVB	05	44	08	-32	19	27	5.17	12	20.02	H	C	S	001	40	78	123	20	41	SWP	1474
HD 38771	IMEVB	05	45	23	-07	41		2.09	20	20.27	H	C	S	000	10	78	247	13	03	SWP	2482
HD 38771	IMEVB	05	45	23	-07	41		2.09	20	20.27	H	C	S	000	06	78	247	13	05	LWR	2269
HD 37587	HGLRD	05	51	40	20	20	30	4.41	44	20.1	H	C	S	030	00	78	303	22	30	LWR	2768
ALF ORI	LTFPW	05	52	27	07	23	58	1	48	20.1	H	C	S	120	00	78	113	13	00	LWR	1371
ALF ORI	CEJLL	05	52	28	07	24		0.8	48		L	C	S	020	00	78	094	12	04	SWP	1311
ALF ORI	CEJLL	05	52	28	07	24		0.8	48		L	C	S	020	00	78	094	12	08	SWP	1312
ALF ORI	CEJLL	05	52	28	07	24		0.8	48		L	C	S	020	00	7					

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OBJ ID	PRCG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	Z(B-V) OR Z-V	DISP H/L	LG - OBJ APERTURE O/C	OBJ L/S	EXPOSE TIME		EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS	
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR			MIN
13 1120	CM2GH	06	05	29	13	58	48	8.1	20	00.70	H	C	S	070	00	78	236	05	25	LWR	2165
DEL PIC	ALBJ	06	09	19	-54	57		4.84	20	00.01	H	C	S	001	45	78	169	16	41	SWP	1808
HD42933	RFZYK	06	09	30	-54	57		4.73	23		H	C	S	001	20	78	248	13	10	SWP	2497
HD42933	RFZYK	06	09	20	-54	57		4.73	23		H	C	S	001	05	78	248	13	16	LWR	2280
71 CRT	HGLRD	06	11	54	19	11		5.19	41	00.00	H	C	S	055	00	78	302	03	38	LWR	2769
71 CRT	HGLRD	06	11	54	19	11		5.19	41	00.05	H	C	S	037	00	78	302	03	38	LWR	2819
49 2290	PRCAL	06	18	47	-08	42	49	6.60	44	0.66	L	C	S	003	37	78	176	21	01	LWR	1731
49 2290	PRCAL	06	18	47	-08	42	49	6.60	44	0.66	L	C	S	010	10	78	176	21	01	LWR	1731
IC4165	F42AB	06	19	24	-12	57	40		12	70	L	O	L	015	00	78	246	10	09	LWR	2255
IC4165	F42AB	06	19	24	-12	57	40		12	70	L	O	L	005	00	78	246	10	09	LWR	2461
ALP CAR	CEJLL	06	22	50	-52	40		-0.73	40		H	O	L	030	00	78	227	16	36	SWP	2302
ALP CAR	CEJLL	06	22	50	-52	40		-0.73	40		H	O	L	000	40	78	227	17	34	LWR	2083
HD45166	HSSRH	06	23	30	08	01		9.88	11	-0.10	L	O	S	002	30	78	093	22	37	SWP	1307
HD45166	HSSRH	06	23	30	08	01		9.88	11	-0.10	L	O	S	003	30	78	093	22	37	SWP	1307
HD45677	LABDS	06	25	59	-13	01		7.6	26	00.21	L	O	L	001	40	78	109	20	48	LWR	1342
HD45677	LABDS	06	25	59	-13	01		7.6	26	00.21	L	O	L	004	10	78	109	20	59	LWR	1342
HD45677	LABDS	06	25	59	-13	01		7.6	26	00.21	L	O	L	004	10	78	109	21	51	SWP	1388
HD45677	LABDS	06	25	59	-13	01		7.6	26	00.21	L	O	L	001	40	78	109	22	51	SWP	1388
HD45677	LABDS	06	25	59	-13	01		7.6	26	00.21	L	O	L	001	00	78	109	22	52	LWR	1343
HD45677	LABDS	06	25	59	-13	01		7.6	26	00.21	L	O	L	002	50	78	109	22	52	LWR	1343
HD45677	LABDS	06	25	59	-13	01	12	8.0	26	00.27	L	O	L	001	10	78	269	15	10	LWR	2467
HD45677	LABDS	06	25	59	-13	01	12	8.0	26	00.27	L	O	L	001	10	78	269	15	10	LWR	2467
HD45677	LABDS	06	25	59	-13	01	12	8.0	26	00.27	L	O	L	002	10	78	269	15	27	SWP	2772
HD45677	LABDS	06	25	59	-13	01	12	8.0	26	00.27	L	O	L	003	30	78	269	15	36	SWP	2772
HD44223	ICJHB	06	29	29	04	51	38	7.25	15	00.54	H	H	C	033	00	78	264	05	09	LWR	2421
HD44223	ICJHB	06	29	29	04	51	38	7.25	15	00.54	H	H	C	050	00	78	264	05	09	SWP	2712
HD44223	ICJHB	06	29	29	04	51	38	7.25	15	00.54	H	H	C	060	00	78	264	07	24	SWP	2713
HD44223	ICJHB	06	29	29	04	51	38	7.25	15	00.54	H	H	C	060	00	78	264	09	01	SWP	2714
3 2422	CM2GH	06	34	42	06	10	00	6.04	12	00.36	H	H	C	006	00	78	232	07	26	LWR	2121
B2422	CM2GH	06	34	42	06	10	00	6.04	12	00.36	H	H	C	007	00	78	234	04	43	LWR	2143
92422	CM2GH	06	34	42	06	10	00	6.04	12	00.32	H	H	C	014	00	78	234	04	57	SWP	2360
HD47129	RFZYK	06	34	43	06	11		6.06	14	00.00	H	C	S	009	00	78	250	13	08	LWR	2300
HD47129	RFZYK	06	34	43	06	11		6.06	14	00.00	H	H	C	016	00	78	250	13	23	SWP	2516
HD47129	RFZYK	06	34	43	06	11		6.06	14	00.00	H	H	C	014	00	78	254	11	42	SWP	2626
HD47129	RFZYK	06	34	43	06	11		6.06	14	00.00	H	H	C	010	00	78	254	12	17	LWR	2320
HD47839	IMPVB	06	38	13	09	57		4.65	12	00.07	H	C	S	001	05	78	247	14	15	SWP	2483
HD47839	IMPVB	06	38	13	09	57		4.65	12	00.07	H	C	S	001	00	78	247	14	21	LWR	2270
HD48059	OSESC	06	39	18	06	23		6.36	12	-0.02	H	C	S	010	00	78	282	11	31	LWR	2563

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OBJ ID	PRCG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	Z(B-V) OR Z-V	DISP H/L	LG - OBJ APERTURE O/C	OBJ L/S	EXPOSE TIME		EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS	
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR			MIN
HD48099	OSFSC	06	39	18	06	23		6.36	12	-0.02	H	C	S	011	00	78	282	11	48	SWP	2896
HD48224	CEJLL	06	40	51	25	10	37	3.08	44		L	O	L	008	00	78	231	11	05	LWR	2112
HD48224	CEJLL	06	40	51	25	10	37	3.08	44		L	O	L	048	00	78	231	11	23	SWP	2337
HD48224	CEJLL	06	40	51	25	10	37	3.08	44		L	O	L	024	00	78	231	12	21	LWR	2113
HD48224	CEJLL	06	40	51	25	10	37	3.08	44		L	O	L	000	02	78	265	14	10	SWP	2729
HD48224	CEJLL	06	40	51	25	10	37	3.08	44		L	O	L	010	00	78	267	10	49	SWP	2747
HD48224	CEJLL	06	40	51	25	10	37	3.08	44		L	O	L	000	04	78	267	11	55	SWP	2748
HD48224	CEJLL	06	40	51	25	10	37	3.08	44		L	O	L	000	02	78	267	11	55	SWP	2748
HD48224	CEJLL	06	40	51	25	10	37	3.08	44		L	O	L	000	20	78	263	15	02	SWP	2706
HD48224	CEJLL	06	40	51	25	10	37	3.08	44		L	O	L	005	10	78	267	13	27	SWP	2749
HD48224	CEJLL	06	40	51	25	10	37	3.08	44		L	O	L	010	00	78	267	14	35	SWP	2750
HD48224	CEJLL	06	40	51	25	10	37	3.08	44		L	O	L	000	10	78	267	15	35	SWP	2751
56 AUR	HGLRD	06	43	04	43	37		5.22	44	0.57	H	C	S	050	00	78	308	10	02	LWR	2774
56 AUR	HGLRD	06	43	04	43	37		5.22	44	0.57	H	C	S	050	00	78	308	06	19	LWR	2817
HD4759	RFZYK	06	46	38	-44	16		8.29	14		H	C	S	019	00	78	250	08	53	SWP	2513
HD4759	RFZYK	06	46	38	-44	16		8.29	14		H	C	S	021	00	78	250	09	23	LWR	2297
HD50138	LABDS	06	49	07	-06	54	21	6.6	22	00.10	L	O	L	000	17	78	272	15	24	LWR	2499
HD50138	LABDS	06	49	07	-06	54	21	6.6	22	00.10	L	O	L	000	30	78	272	15	28	LWR	2499
HD50896	OSFSC	06	52	06	-23	51		6.90	11	-0.09	H	H	C	008	00	78	278	12	15	LWR	2860
HD50896	OSFSC	06	52	06	-23	51		6.90	11	-0.09	H	H	C	006	00	78	278	12	29	LWR	2838
HD50896	OSFSC	06	52	06	-23	51		6.90	11	-0.09	H	H	C	000	04	78	279	11	42	SWP	2859
HD50896	OSFSC	06	52	06	-23	51		6.90	11	-0.09	H	H	C	000	04	78	278	11	43	SWP	2859
HD4755	CM2GH	07	03	29	10	34	59	6.48	20	00.26	H	H	C	007	00	78	234	07	52	LWR	2145
HD4755	CM2GH	07	03	29	10	34	59														

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		H	M	S	D	M	S								YR	DAY	HR		
HD68273	LSEKW	08 07 59	-47 11	19	1.6	10	2.0	H	C	S	000 06	78	236	14	19	SWP	2388		
GAM VEL		08 07 59	-47 11	19	1.6	10	2.0	H	C	S	000 03	78	236	14	24	LWR	2167		
GAM VEL		08 07 59	-47 11	19	1.6	10	2.0	H	C	S	000 12	78	236	15	02	SWP	2389		
GAM VEL		08 07 59	-47 11	19	1.6	10	2.0	H	C	S	000 05	78	244	08	06	SWP	2504		
GAM VEL		08 07 59	-47 11	19	1.6	10	2.0	H	C	S	000 06	78	261	15	42	SWP	2693		
GAM VEL		08 07 59	-47 11	19	1.6	10	2.0	H	C	S	000 06	78	274	00	50	SWP	2817		
GAM2 VEL		08 07 59	-47 11	19	1.6	10	2.0	H	C	S	000 03	78	274	00	50	LWR	2511		
GAM VEL		08 07 59	-47 11	19	1.6	10	2.0	H	C	S	000 06	78	286	02	48	SWP	2512		
JAF VEL		08 07 59	-47 11	19	1.6	10	2.0	H	C	S	000 03	78	286	23	12	LWR	2556		
JAF VEL		08 07 59	-47 11	19	1.6	10	2.0	H	C	S	000 04	78	298	13	13	SWP	3139		
GAM VEL		08 07 59	-47 11	19	1.6	10	2.0	H	C	S	000 03	78	298	13	13	LWR	2708		
GAM VEL	HF2YK	08 07 59	-47 11	19	1.8	10	2.07	H	C	S	000 01	78	155	19	16	SWP	1717		
GAM VEL		08 07 59	-47 11	19	1.8	10	2.07	H	C	S	000 03	78	155	20	05	LWR	1718		
GAM VEL		08 07 59	-47 11	19	1.8	10	2.07	H	C	S	000 04	78	155	20	50	SWP	1619		
GAM VEL		08 07 59	-47 11	19	1.8	10	2.07	H	C	S	000 05	78	155	21	32	SWP	1719		
GAM VEL		08 07 59	-47 11	19	1.8	11	2.07	H	C	S	000 05	78	250	10	32	SWP	2514		
GAM VEL		08 07 59	-47 11	19	1.8	10	2.07	H	C	S	000 04	78	250	10	32	LWR	2298		
HD58273	XBEVB	08 07 59	-47 11	19	1.83	13	20.04	H	C	S	000 04	78	202	17	48	LWR	1866		
HD68273		08 07 59	-47 11	19	1.83	13	20.04	H	C	S	000 04	78	202	17	54	SWP	2070		
GANYMEDE	AVALL	08 12 29	20 22	55	6.6	04		L	C	S	002 45	78	255	01	19	LWR	2327		
GANYMEDE		08 12 29	20 22	55	6.6	04		L	C	S	015 00	78	255	02	08	SWP	2631		
GANYMEDE		08 12 29	20 22	55	6.6	04		L	C	S	060 00	78	255	04	13	SWP	2632		
GANYMEDE		08 12 29	20 22	55	6.6	04		L	C	S	004 15	78	255	03	53	LWR	2328		
GANYMEDE		08 12 29	20 22	55	6.6	04		L	C	S	015 00	78	255	07	04	LWR	2330		
GANYMEDE		08 12 29	20 22	55	6.6	04		L	C	S	004 15	78	255	07	28	LWR	2330		
49 CNC	NVDSL	08 42 02	10 16		5.7	27	-0.10	H	C	S	027 00	78	295	02	39	SWP	3095		
49 CNC		08 42 02	10 16		5.7	27	-0.10	H	C	S	015 00	78	295	03	11	LWR	2672		
49 CNC		08 42 02	10 16		5.7	27	-0.10	H	C	S	101 00	78	295	03	40	SWP	3096		
0J 287	EQBCR	08 51 57	20 18	58	15	95	3.5	L	C	L	070 00	78	146	14	50	SWP	1643		
0J 287		08 51 57	20 17	58	15	95	3.5	L	C	L	310 00	78	149	10	33	SWP	1665		
0J 287		08 51 57	20 17	58	15	95	3.5	L	C	L	270 00	78	150	11	13	LWR	1582		
0J 287		08 51 57	20 17	58	15	95	3.5	L	C	L	300 00	78	307	21	35	LWR	2615		
0J 287		08 51 57	20 17	58	15	95	3.5	L	C	L	300 00	78	307	20	55	SWP	3218		
0J 287	RSBLD	08 51 57	20 17	58	15	95		L	C	L	310 00	78	159	08	38	LWR	1637		
0J 287		08 51 57	20 17	58	15	95		L	C	L	375 00	78	160	07	28	SWP	1749		
10 OMA	APFBV	08 57 24	41 59	55	4.0	41		H	C	L	020 00	78	145	15	35	LWR	1561		
HD77350	SS2JJ	08 59 49	24 39	03	5.5	36	-0.03	H	C	S	042 00	78	291	09	41	SWP	3019		
HD77350		08 59 49	24 39	03	5.5	36	-0.03	H	C	S	016 00	78	291	10	29	LWR	2642		
HD77350		08 59 49	24 39	03	5.5	36	-0.03	H	C	S	026 00	78	291	11	01	SWP	3020		
HD77581	LSEKW	09 00 12	-40 22		6.9	29	E-1.33	H	C	S	108 00	78	236	15	58	SWP	2390		

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		H	M	S	D	M	S								YR	DAY	HR		
HD77581	SLJBB	09 00 12	-40 22		6.9	23		L	C	L	002 00	78	211	12	40	SWP	2151		
HD77581		09 00 12	-40 22		6.9	23		L	C	S	002 00	78	211	12	40	SWP	2151		
HD77581	SLZHC	09 00 13	-40 21	25	6.8	23	20.78	L	C	S	005 00	78	118	19	51	SWP	1433		
HD77581		09 00 13	-40 21	25	6.8	23	20.78	L	C	S	001 48	78	118	19	41	SWP	1433		
HD77581		09 00 13	-40 21	25	6.8	23	20.78	L	C	S	004 00	78	118	20	33	SWP	1412		
VELA 11		09 00 13	-40 21	25	6.9	23	20.78	L	C	S	000 40	78	118	20	23	LWR	1412		
VELA 11		09 00 13	-40 21	25	6.9	23	20.78	L	C	S	001 48	78	120	01	24	SWP	1441		
VELA 11		09 00 13	-40 21	25	6.9	23	20.78	L	C	S	005 00	78	120	01	35	SWP	1441		
VELA 11		09 00 13	-40 21	25	6.9	23	20.78	L	C	S	008 00	78	120	01	56	LWR	1417		
HD77581		09 00 13	-40 21	25	6.9	23	20.78	L	C	S	000 40	78	120	01	56	LWR	1417		
HD77581		09 00 13	-40 21	25	6.9	23	20.78	L	C	S	150 00	78	125	13	35	SWP	1888		
HD77581		09 00 13	-40 21	25	6.9	23	20.78	L	C	S	125 00	78	204	10	49	SWP	2687		
HD77581		09 00 13	-40 21	25	6.9	23	20.78	L	C	S	042 00	78	204	13	04	LWR	1878		
HD77581	XBPVB	09 00 13	-40 21	25	6.8	23	20.75	L	C	S	001 35	78	121	14	33	SWP	1453		
HD77581		09 00 13	-40 21	25	6.8	23	20.75	L	C	S	001 35	78	121	14	46	SWP	1453		
HD77581		09 00 13	-40 21	25	6.8	23	20.75	L	C	S	001 48	78	121	14	52	LWR	1426		
HD77581		09 00 13	-40 21	25	6.8	23	20.75	L	C	S	000 40	78	121	15	20	SWP	1426		
HD77581		09 00 13	-40 21	25	6.8	23	20.75	L	C	S	002 20	78	123	23	09	SWP	1475		
HD77581		09 00 13	-40 21	25	6.8	23	20.75	L	C	S	002 20	78	133	23	21	SWP	1475		
HD77581		09 00 13	-40 21	25	6.8	23	20.75	L	C	S	000 40	78	123	23	17	LWR	1476		
HD77581		09 00 13	-40 21	25	6.8	23	20.75	L	C	S	000 40	78	123	23	25	LWR	1436		
HD77581		09 00 13	-40 21	25	6.8	23	20.75	L	C	S	055 00	78	125	16	15	LWR	1444		
VELA X 1		09 00 13	-40 21	25	6.8	23	20.75	L	C	S	050 00	78	125	16	38	LWR	1444		
HD77315	NVDSL	09 05 02	10 52		5.4	27	20.00	H	C	S	021 00	78	100	23	30	SWP	1347		
HD77315		09 05 02	10 52		5.4	27	20.00	H	C	S	010 01	78	101	00	18	LWR	1302		
HD77315		09 05 02	10 52		5.4	27	20.00	H	C	S	010 31	78	101	01	10	SWP	1348		
HD77315		09 05 02	10 52		5.4	27	20.00	H	C	S	017 00	78	101	19	16	SWP	1352		
HD77315	SS2JJ	09 05 02	10 52	14	5.2	27	-0.11	H	C	S	007 30	78	291						

ORDERED BY RIGHT ASCENSION
SORTED BY PROGRAM ID

CRJ ID	PROG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E(B-V) OR B-V	DISP H/L	LG - APERTURE O/C	CRJ L/S	EXPOSE TIME		EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR		
BD371977	HADAK	09 21 2	36 55 49	9.2	24			L	O	L	000	30	78	285	00	24	SWP	2924		
BD371977	BSJLG	09 21 21	36 55 49	10.1	16			L	L	O	002	00	78	150	20	15	SWP	1672	TRAILED	
BD371977		09 21 21	36 55 49	10.1	16			L	L	O	001	40	78	150	20	30	SWP	1672		
BD371977		09 21 21	36 55 49	10.1	16			L	L	O	004	00	78	150	21	17	LWR	1584	TRAILED	
BD371977	HADAK	09 21 21	36 55 49	9.2	24			L	C	O	000	40	78	285	00	21	SWP	2924		
BD371977		09 21 21	36 55 49	9.2	24			L	C	O	001	10	78	285	01	16	LWR	2580		
BD371977		09 21 21	36 55 49	9.2	24			L	C	O	003	30	78	285	01	44	LWR	2580		
HD E1829	HGLRD	09 25 18	-05 51	5.33	44		0.64	H	C	C	070	00	78	304	02	59	LWR	2771		
HD E1829		09 25 18	-05 51	5.33	44			H	C	C	070	00	78	305	20	41	LWR	2796		
BD481777	HADAK	09 27 27	48 29 42	10.7	24		-0.34	L	O	O	001	10	78	285	02	26	SWP	2925		
BD481777		09 27 27	48 29 42	10.7	24		-0.34	L	L	O	003	30	78	285	02	38	SWP	2625		
BD481777		09 27 27	48 29 42	10.7	24		-0.34	L	L	O	002	30	78	285	04	15	LWR	2582		
BD481777		09 27 27	48 29 42	10.7	24		-0.34	L	L	O	005	00	78	285	04	26	LWR	2562		
BD481777		09 27 27	48 29 42	10.7	24		-0.34	L	H	C	080	00	78	285	05	12	SWP	2526		
IC 2501	PP2ED	09 37 12	-59 51 27	13.5	70			L	O	L	030	00	78	303	13	17	LWR	2757		
HD E4245	LTBFW	09 42 34	34 44 34	7	48		00000	L	O	L	040	00	78	110	13	08	LWR	1347		
HD E4245		09 42 34	34 44 34	7	48		00000	L	L	O	120	00	78	110	14	03	SWP	1393		
HD E4245		09 44 52	11 39 41	7.0	48		00000	L	O	L	120	00	78	113	16	24	LWR	1372		
TITAN	PSTCC	09 51 45	14 18 23	7.5	04			L	O	S	360	00	78	170	07	39	LWR	1693		
PG 0953	IM2AS	09 53 48	41 29 57	14.5	85			L	O	L	190	00	78	104	22	07	SWP	1361		
TITAN	PSTCC	09 54 15	14 16 35	7.5	04			L	O	O	360	00	78	171	07	40	SWP	1817		
SATURN		09 54 26	14 16 35	0	03			L	L	O	003	00	78	171	15	27	LWR	1699		
SATURN		09 54 25	14 16 35	0	03			L	L	O	016	00	78	171	16	08	SWP	1818		
SATURN		09 54 25	14 16 35	0	03			L	L	O	016	00	78	171	17	12	LWR	1700		
SATURN		09 54 26	14 16 35	0	03			L	L	O	040	00	78	171	18	02	SWP	1819		
SATURN		09 54 26	14 16 35	0	03			L	L	O	030	00	78	171	19	00	LWR	1701		
SATURN		09 54 25	14 16 35	0	03			L	L	O	070	00	78	171	19	53	SWP	1820		
SATURN		09 54 25	14 16 35	0	03			L	L	O	005	03	78	171	21	29	LWR	1702		
HD E6606	ALEDJ	09 55 17	-71 39	6.34	23		00.10	H	C	C	008	30	78	167	19	07	LWR	1678		
HD E6606		09 55 17	-71 39	6.34	23		00.10	H	C	C	021	00	78	167	19	40	SWP	1796		
IC 2332	PP2ED	09 55 25	32 38 23	15.78	85		0.10	L	O	L	420	00	78	300	23	15	SWP	3173		
IC 2332		09 55 25	32 38 23	15.78	85		0.10	L	O	L	435	00	78	302	23	10	LWR	2752		
TITAN	PSTCC	09 55 29	14 10 46	7.5	04			L	O	S	180	00	78	174	10	25	LWR	1715		
SATURN		09 55 29	14 10 46	7.5	03			L	O	S	002	30	78	174	14	18	LWR	1716		
HD E6985	SS2JJ	09 59 46	14 48 05	8.0	30		00.06	L	O	L	006	00	78	291	13	25	SWP	3022		
NGC 3132	EN2AB	10 04 54	-40 12	8	70			L	O	L	020	00	78	159	15	16	SWP	1745		

OFF 3#
OFF 3#
OFF 3#
OFF 5#

ORDERED BY RIGHT ASCENSION
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CRJ ID	PROG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E(B-V) OR B-V	DISP H/L	LG - APERTURE O/C	CRJ L/S	EXPOSE TIME		EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR		
NGC 3132	EN2AB	10 04 54	-40 12	8	70			L	O	L	030	00	78	159	15	55	LWR	1638		
NGC 3132		10 04 54	-40 12	8	70			L	O	L	020	00	78	159	16	34	SWP	1746		
ZET E20	AFEDV	10 13 54	23 40 01	3.5	40		00.30	H	C	C	010	00	78	115	14	50	LWR	1386		
ZET E20		10 13 54	23 40 01	3.5	40		00.30	H	C	C	030	00	78	115	15	41	SWP	1345		
BD-73007	BSJLG	10 17 26	-08 26 59	10.2				L	O	L	004	00	78	150	16	45	LWR	1583	TRAILED	
BD-73007		10 17 26	-08 26 59	10.2				L	O	L	006	00	78	150	18	39	SWP	1671		
BD-73007		10 17 26	-08 26 59	10.2				L	O	L	006	00	78	150	18	55	SWP	1671		
HD 4072	BVDSL	10 20 33	65 49	4.9	27		00.00	H	C	C	012	00	78	098	21	24	SWP	1332		
HD 4072		10 20 33	65 49	4.9	27		00.00	H	C	C	033	00	78	098	21	43	SWP	1332		
HD 89822	SS2JJ	10 20 33	65 49 12	4.5	36		-0.06	H	C	C	020	00	78	291	08	13	SWP	3018		
HD 89822		10 20 33	65 49 12	4.5	36		-0.06	H	C	C	010	00	78	291	08	48	LWR	2642		
HD 8118	AFEDV	10 29 04	-71 44 07	4.7	30		00.04	H	C	C	015	00	78	267	04	12	LWR	2451		
HD 8118		10 29 04	-71 44 07	4.7	30		00.04	H	C	C	015	00	78	267	04	33	LWR	2745		
HD 91316	ICJHB	10 30 10	09 33 52	3.87	23		00.08	H	C	C	002	00	78	115	19	59	SWP	1416		
HD 91316		10 30 10	09 33 52	3.87	23		00.08	H	C	C	000	30	78	115	20	38	LWR	1388		
HD 91316	SCABU	10 30 10	09 33 52	3.85	23		00.12	H	C	C	002	15	78	170	14	40	SWP	1813		
HD 91316		10 30 10	09 33 52	3.85	23		00.12	H	C	C	002	00	78	170	15	29	LWR	1694		
HD 91316		10 30 10	09 33 52	3.85	23		00.12	H	C	C	001	00	78	177	20	38	SWP	1734		
HD 91316		10 30 10	09 33 52	3.85	23		00.12	H	C	C	001	35	78	177	20	39	SWP	1659		
HD 91316		10 30 10	09 33 52	3.85	23		00.12	H	C	C	001	15	78	177	21	42	SWP	1860		
HD 27240	OSFSC	10 39 23	-59 25	6.41	11		00.39	H	C	C	011	00	78	143	17	04	SWP	1614		
HD 27240		10 39 23	-59 25	6.41	11		00.39	H	C	C	012	00	78	143	17	29	LWR	1549		
HD 27240		10 39 23	-59 25	6.41	11		00.39	H	C	C	003	00	78	143	18	21	SWP	1615		
HD 27240		10 39 23	-59 25	6.41	11		00.39	H	L	L	000	08	78	143	18	29	SWP	1615		
HD 27240		10 39 23	-59 25	6.41	11		00.39	H	L	L	005	00	78	140	22	19	LWR	1591		
HD 27240		10 41 56	-59 51	6.48	11		00.25	H	C	C	007	00	78	140	33	12	LWR	1527		
HD 27240		10 41 56	-59 51	6.48	11		00.25	H	C	C	000	05	78	145	17	32	SWP	1634		
HD 27240		10 41 56	-59 51	6.48	11		00.25	H	L	L	000	06	78	145	17	41	SWP	1634		
HD 61129	MLJBB	10 42 31	-59 17	7.1	13		0.25	H	C	C	020	00	78	269	17	15	SWP	2133		
HD 61129		10 42 31	-59 17	7.1	13		0.25	H	C	C	030									

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ORDERED BY RIGHT ASCENSION

SORTED BY PROGRAM ID

CRJ ID	PRG ID	TARGET RA	TARGET DEC	VIS MAG	CLASS	OBJ	SP LG	LG - OBJ	EXPOS TIME	EXPOSURE	START TIME	HR	MIN	SEC	YR	DAY	HR	MIN	SEC	IMAGE	NOH	OBSERVERS	COMMENTS
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HD93403	HP2YN	10 43 46	-59 08	7.27	15	FO. 56	H	C	030 00	78	254	09	04							SWP	2625		
HD93403	CEJLI	10 44 37	-49 09 30	2.66	48		H	I	015 00	78	235	17	28							SWP	2338		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	007 00	78	235	15	46							SWP	2160		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 12	78	188	06	24							SWP	1927		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 03	78	188	06	31							SWP	1790		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 06	78	188	06	38							SWP	1750		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 09	78	188	06	45							SWP	1710		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 12	78	188	06	52							SWP	1670		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 15	78	188	06	59							SWP	1630		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 18	78	188	06	06							SWP	1590		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 21	78	188	06	13							SWP	1550		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 24	78	188	06	20							SWP	1510		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 27	78	188	06	27							SWP	1470		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 30	78	188	06	34							SWP	1430		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 33	78	188	06	41							SWP	1390		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 36	78	188	06	48							SWP	1350		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 39	78	188	06	55							SWP	1310		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 42	78	188	06	02							SWP	1270		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 45	78	188	06	09							SWP	1230		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 48	78	188	06	16							SWP	1190		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 51	78	188	06	23							SWP	1150		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 54	78	188	06	30							SWP	1110		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	000 57	78	188	06	37							SWP	1070		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 00	78	188	06	44							SWP	1030		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 03	78	188	06	51							SWP	990		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 06	78	188	06	58							SWP	950		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 09	78	188	06	05							SWP	910		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 12	78	188	06	12							SWP	870		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 15	78	188	06	19							SWP	830		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 18	78	188	06	26							SWP	790		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 21	78	188	06	33							SWP	750		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 24	78	188	06	40							SWP	710		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 27	78	188	06	47							SWP	670		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 30	78	188	06	54							SWP	630		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 33	78	188	06	01							SWP	590		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 36	78	188	06	08							SWP	550		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 39	78	188	06	15							SWP	510		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 42	78	188	06	22							SWP	470		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 45	78	188	06	29							SWP	430		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 48	78	188	06	36							SWP	390		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 51	78	188	06	43							SWP	350		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 54	78	188	06	50							SWP	310		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	001 57	78	188	06	57							SWP	270		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 00	78	188	06	04							SWP	230		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 03	78	188	06	11							SWP	190		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 06	78	188	06	18							SWP	150		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 09	78	188	06	25							SWP	110		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 12	78	188	06	32							SWP	70		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 15	78	188	06	39							SWP	30		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 18	78	188	06	46							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 21	78	188	06	53							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 24	78	188	06	00							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 27	78	188	06	07							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 30	78	188	06	14							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 33	78	188	06	21							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 36	78	188	06	28							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 39	78	188	06	35							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 42	78	188	06	42							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 45	78	188	06	49							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 48	78	188	06	56							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 51	78	188	06	03							SWP	0		
HD93403	PHCAL	10 45 37	-49 09 30	6.89	12		H	I	002 54	78	188	06	10							SWP	0		
HD93403	PH																						

ORDERED BY RIGHT ASCENSION
SORTED BY PROGRAM ID

OBJ ID	PRCG IC	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E (B-V) OR B-V	DISP H/L	IG - APPERTURE O/C	OBJ L/S	EXPOSE TIME		EPOSURE START TIME			IMAGE SEQ NO	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR		
CO	COMWJ	11 32 10	-61 54 49	10.0	06	L	O	L	002 00	78	289	02	06	SWP	2992	VILSPA				
CO		11 32 10	-61 54 49	10.0	06	L	O	L	002 00	78	289	02	12	LWR	2610					
CO		11 32 10	-61 54 49	10.0	06	L	O	L	002 00	78	289	02	18	SWP	2993					
CO		11 32 10	-61 54 49	10.0	06	L	O	L	025 00	78	289	02	55	LWR	2615					
CO		11 32 10	-61 54 49	10.0	06	L	O	L	025 00	78	289	03	33	SWP	2994					
CO		11 32 10	-61 54 49	10.0	06	L	O	L	128 45	78	289	04	05	LWR	2616					
CO		11 32 10	-61 54 49	10.0	06	L	O	L	130 00	78	291	19	25	LWR	2646					
CO		11 32 10	-61 54 49	10.0	06	L	O	L	180 00	78	291	22	25	SWP	3025					
CO		11 32 10	-61 54 49	10.0	06	L	O	L	030 00	78	291	23	24	LWR	2647					
CO		11 32 10	-61 54 49	10.0	06	L	O	L	010 00	78	291	23	56	LWR	2648					
CO		11 32 10	-61 54 49	10.0	06	L	O	L	003 00	78	292	00	30	SWP	3027					
CO		11 32 10	-61 54 49	10.0	06	L	O	L	135 00	78	292	01	06	SWP	3028					
CO		11 32 10	-61 54 49	10.0	06	L	O	L	045 00	78	292	03	06	LWR	2649					
HR 45 11	AFEVV	11 41 07	-62 12 42	5.0	44	L	O	L	050 00	78	252	02	00	SWP	2690					
HR 45 11		11 41 07	-62 12 42	5.0	44	L	O	L	020 00	78	252	03	03	SWP	2690					
HR 45 11		11 41 07	-62 12 42	5.0	44	L	O	L	010 00	78	262	03	07	LWR	2399					
HR 45 11		11 41 07	-62 12 42	5.0	44	L	O	L	004 00	78	262	03	23	LWR	2399					
HR 45 11		11 41 07	-62 12 42	5.0	44	L	O	L	025 00	78	262	04	24	LWR	2800					
HR 45 20		11 43 14	-56 27 05	3.4	31	L	O	L	015 00	78	264	05	18	SWP	2691					
HR 45 20		11 43 14	-56 27 05	3.4	31	L	O	L	020 00	78	267	05	06	SWP	2450					
HR 45 20		11 43 14	-56 27 05	3.4	31	L	O	L	020 00	78	267	05	06	SWP	2744					
NGC 3518	FPZED	11 47 48	-56 54 00	8.5	70	L	O	L	007 00	78	183	15	54	SWP	1905					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	013 00	78	183	16	09	SWP	1905					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	014 00	78	183	17	46	LWR	1747					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	007 00	78	183	18	32	SWP	1906					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	080 00	78	183	19	23	LWR	1768					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	020 00	78	303	07	27	LWR	2753					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	020 00	78	303	07	41	SWP	3191					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	018 00	78	303	08	20	LWR	2754					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	010 00	78	303	08	51	SWP	3192					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	120 00	78	307	08	48	SWP	3245					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	008 00	78	307	10	56	LWR	2809					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	012 00	78	307	11	08	LWR	2809					
NGC 3518		11 47 48	-56 54 00	8.5	70	L	O	L	015 00	78	307	11	39	SWP	3216					
NGC 4051	EGAMS	12 00 36	-64 48 39	8.0	80	L	O	L	030 00	78	176	13	15	LWR	1728					
HD 105056	PLJBU	12 03 13	-69 18	7.5	23	L	O	L	030 00	78	209	15	53	SWP	2132					
HD 105056		12 03 13	-69 18	7.5	23	L	O	L	020 00	78	290	03	34	SWP	2628					
HD 105056		12 03 13	-69 18	7.5	23	L	O	L	035 00	78	290	04	04	SWP	3003					
NGC 4151	PPZED	12 08 00	39 41	11.2	84	L	O	L	050 00	78	304	23	41	SWP	3199					
NGC 4151	EOLCR	12 08 01	39 41 03	11.2	84	L	O	L	080 00	78	168	11	40	SWP	1800					
NGC 4151		12 08 01	39 41 03	11.2	84	L	O	L	080 00	78	168	11	40	SWP	1800					
NGC 4151		12 08 01	39 41 03	11.2	84	L	O	L	030 00	78	168	13	44	SWP	1801					

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OBJ ID	PRCG IC	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E (B-V) OR B-V	DISP H/L	IG - APPERTURE O/C	OBJ L/S	EXPOSE TIME		EPOSURE START TIME			IMAGE SEQ NO	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR		
NGC 4151	GQJBU	12 08 01	39 41 03	12	84	L	O	L	050 00	78	106	20	52	LWR	1324					
NGC 4151		12 08 01	39 41 03	12	84	L	O	L	040 00	78	106	20	52	SWP	1371					
NGC 4151		12 08 01	39 41 03	12	84	L	O	L	060 00	78	106	22	09	LWR	1325					
NGC 4151		12 08 01	39 41 03	12	84	L	O	L	040 00	78	106	23	08	SWP	1372					
NGC 4151		12 08 01	39 41 03	12	84	L	O	L	040 00	79	107	00	09	LWR	1326					
NGC 4151		12 08 01	39 41 03	12	84	L	O	L	020 00	78	107	00	58	SWP	1373					
NGC 4151	PPZED	12 08 01	39 41 03	11.2	84	L	O	L	080 00	78	304	22	07	LWR	2782					
HD 105998	CBRJP	12 09 20	-58 31	9.2	44	L	O	L	030 00	78	228	02	44	SWP	2303					
HD 105998		12 09 20	-58 31	9.2	44	L	O	L	020 00	79	228	03	49	LWR	2084					
HD 105998		12 09 20	-58 31	9.2	44	L	O	L	010 00	78	228	04	18	LWR	2084					
HD 105998		12 09 20	-58 31	9.2	44	L	O	L	080 00	78	228	04	36	SWP	2304					
HZ 21	GQJBU	12 11 24	33 12 00	14	16	L	O	L	030 00	78	108	00	27	LWR	1330					
HZ 21		12 11 24	33 12 00	14	16	L	O	L	015 00	78	108	01	22	SWP	1378					
HD 106677	CCAKD	12 13 21	72 49 45	5.4	46	L	O	L	050 00	78	137	11	54	SWP	1565					
HD 106677		12 13 21	72 49 45	5.4	46	L	O	L	015 00	78	137	13	07	LWR	1508					
HX 205	QOZAD	12 19 35	75 35 14	13.5	85	L	O	L	150 00	78	182	07	26	SWP	1894					
HX 205		12 19 35	75 35 14	13.5	85	L	O	L	155 00	78	182	10	11	LWR	1758					
HX 205		12 19 35	75 35 14	13.5	85	L	O	L	240 00	78	184	06	03	LWR	1773					
3C 273	GQJBU	12 26 31	02 19 42	12.9	85	L	O	L	100 00	78	105	20	31	SWP	1365					
3C 273		12 26 31	02 19 42	12.9	85	L	O	L	050 00	78	105	23	50	SWP	1366					
3C 273	RQSCB	12 26 33	02 19 42	12.9	85	L	O	L	070 00	78	105	22	28	LWR	1321					
3C 273		12 26 33	02 19 42	12.9	85	L	O	L	090 00	78	146	09	46	SWP	1642					
3C 273		12 26 33	02 19 42	12.9	85	L	O	L	060 00	78	146	11	28	LWR	1565					
3C 273		12 26 33	02 19 42	12.9	85	L	O	L	060 00	78	148	10	13	SWP	1655					
NGC 4486	EGAMS	12 28 17	12 40 04	8.1	81	L	O	L	300 00	78	176	07	09	SWP	1854					
HD 108903	LIGPW	12 28 22	-56 50 00	1.6	48	L	O	L	000 00	78	111	12	01	LWR	1354					
HD 108903		12 28 22	-56 50 00	1.6	48	L	O	L	005 00	79	111	12	09	LWR	1354					
HD 108903		12 28 22	-56 50 00	1.6	48	L	O	L	005 00	78	111	12	47	SWP	1397					
HD 108903		12 28 22	-56 50 00	1.6	48	L	O	L	015 00	78	111	13	10	SWP	1397					
HD 108903		12 28 22	-56 50 00	1.6	48	L	O	L	000 00	78	111	13	56	LWR	1355					
HD 108903		12 28 22	-56 50 00	1.6	48	L	O	L	001 00	78	111	14	03	LWR	1355					
HD 108903		12 28 22	-56 50 00	1.6	48	L	O	L	120 00	78	111	14	50	LWR	1355					
HZ 29	CVX	12 31 22	41 38	4.29	44	L	O	L	059	78	304	12	53	LWR	2777					
DET C37	CCAKD	12 31 45	-23 07	2.65	44	L	O	L	045 00	79	138	09	26							

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OBJ ID	PRG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E (B-V) OR B-V	DISP H/L	LG - APERTURE O/C	OBJ L/S	EXPOSE TIME		EPOSURE START TIME				IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR	MIN		
GAM VIR	AFEBV	12 39 07	-01 12 11	2.9	40	E 0.07	H	C	S	L	015 00	78 115 11 46	LWR	1385							
GAM VIR	AFEBV	12 39 07	-01 12 11	2.9	40	E 0.07	H	C	S	L	030 00	78 115 12 38	SWP	1414							
FEIG67	BSJLG	12 39 22	17 47 49	11.3	16		L	O	L	S	004 00	78 147 21 56	LWR	1570						TRAILED	
FEIG67	BSJLG	12 39 22	17 47 49	11.3	16		L	O	L	S	011 00	78 147 22 31	SWP	1652							
FEIG67	BSJLG	12 39 22	17 47 49	11.3	16		L	O	L	S	002 00	78 147 23 33	SWP	1652							
HD112185	SSJLJ	12 51 50	56 11 51	1.9	36	E 0.02	H	C	S	S	002 00	78 291 06 58	SWP	3017							
HD112185	SSJLJ	12 51 50	56 11 51	1.9	36	E 0.02	H	C	S	S	002 00	78 294 06 08	SWP	3083							
HD112185	SSJLJ	12 51 50	56 11 51	1.3	36	E 0.02	H	C	S	S	000 50	78 294 06 15	LWR	2662							
HD112185	SSJLJ	12 51 50	56 11 51	1.3	36	E 0.02	H	C	S	S	001 00	78 296 13 28	LWR	2693							
HD112244	ICJHD	12 52 51	-56 33 55	5.40	12	E 0.34	H	C	S	S	004 00	78 117 19 52	SWP	1428							
HD112244	ICJHD	12 52 51	-56 33 55	5.40	12	E 0.34	H	C	S	S	004 00	78 117 20 30	LWR	1403							
HD112244	ALJDB	12 53 00	-56 33 55	5.4	12	E 0.3	H	C	S	S	005 00	78 209 15 02	SWP	2131							
ALF2CVN	BYCSL	12 53 40	38 35 18	2.9	36	-0.12	H	C	S	S	001 00	78 295 06 36	LWR	2673						PHS20.0	
ALF2CVN	BYCSL	12 53 40	38 35 18	2.9	36	-0.12	H	C	S	S	000 30	78 295 06 10	LWR	2674						PHS20.0	
ALF2CVN	BYCSL	12 53 40	38 35 18	2.9	36	-0.12	H	C	S	S	001 24	78 295 07 41	LWR	2675						PHS20.0	
MKN 5B	GQJBC	12 54 32	32 43 04	15	80		L	O	L	L	060 00	78 107 19 42	LWR	1329							
MKN 5B	GQJBC	12 54 32	32 43 04	15	90		L	O	L	L	040 00	78 107 21 37	SWP	1377							
113904	FLJDB	13 04 52	-65 02 02	5.5	13	E 0.2	H	C	S	S	007 00	78 288 13 10	SWP	2880							
113904	FLJDB	13 04 52	-65 02 02	5.5	13	E 0.2	H	C	S	S	004 00	78 288 13 40	LWR	2608							
HR113904	MF2YK	13 04 53	-65 02 02	5.5	10		H	C	S	S	001 50	78 248 11 51	SWP	2496							
HR113904	MF2YK	13 04 53	-65 02 02	5.5	10		H	C	S	S	002 20	78 248 11 58	LWR	2279							
TH1 VIR	DGCSL	13 07 21	-05 16 44	4.4	30	E 0.00	H	C	S	S	027 00	78 184 05 22	SWP	1939							
TH1 VIR	DGCSL	13 07 21	-05 16 44	4.4	30	E 0.00	H	C	S	S	011 30	78 189 06 00	LWR	1796							
TH1 VIR	DGCSL	13 07 21	-05 16 44	4.4	30	E 0.00	H	C	S	S	069 00	78 189 06 44	SWP	1940							
HD114178	FGLED	13 07 33	17 48 44	4.30	41		H	C	S	S	018 00	78 214 03 30	LWR	1943							
HD114178	FGLED	13 07 33	17 48 44	4.30	44		H	C	S	S	025 00	78 215 05 17	LWR	1957							
DET CCM	FGLED	13 09 32	24 03 03	4.28	44	E .57	H	C	S	S	025 00	78 305 22 45	LWR	2797							
HZ 43	SXZBG	13 14 00	29 21 50	12.86	37	E 0.1	L	O	L	L	006 30	78 114 23 06	LWR	1413							
HZ 43	SXZBG	13 14 00	29 21 50	12.86	37	E 0.1	L	O	L	L	015 00	78 114 00 13	SWP	1434							
HZ 43	SXZBG	13 14 00	29 21 50	12.86	37	E 0.1	L	O	L	L	020 00	78 119 01 24	LWR	1414							
HZ 43	SXZBG	13 14 00	29 21 50	12.86	37	E 0.1	L	O	L	L	007 00	78 119 02 01	LWR	1414							
HZ 43	ISAKD	13 14 00	29 21 50	12.86	37	E 0.1	L	O	L	L	007 00	78 132 20 25	SWP	1528							
HZ 43	ISAKD	13 14 00	29 21 50	12.86	37	E 0.1	L	O	L	L	007 00	78 132 20 43	SWP	1528							
HZ 43	ISAKD	13 14 00	29 21 49	12.9	37	E 0.1	L	O	L	L	006 30	78 132 21 28	LWR	1478							
HD115393	HGLBD	13 14 18	09 41	5.23	41	E .06	H	C	S	S	060 00	78 214 04 35	LWR	1944							
NGC 5129	EODCH	13 22 31	-42 45 31	7.2	82		L	O	L	L	120 00	78 168 07 43	SWP	1799							
NGC 5128	EODCH	13 22 31	-42 45 31	7.2	82		L	O	L	L	040 00	78 168 09 52	LWR	1681							

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OBJ ID	PRG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E (B-V) OR B-V	DISP H/L	LG - APERTURE O/C	OBJ L/S	EXPOSE TIME		EPOSURE START TIME				IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR	MIN		
HD117176	HGLBD	13 25 59	14 03	4.99	44	E .03	H	C	S	S	110 00	78 214 06 19	LWR	1945							
NGC5189	CHHMJ	13 29 59	-65 43 00	14.4	70		L	O	L	L	060 00	78 217 04 07	LWR	1995							
NGC5189	CHHMJ	13 29 59	-65 43 00	14.4	70		L	O	L	L	010 00	78 217 05 17	LWR	1985							
NGC5189	CHHMJ	13 29 59	-65 43 00	14.4	70		L	O	L	L	060 00	78 217 05 36	SWP	2206							
EQ VIR	CEJLL	13 32 06	-08 05 06	8.8	46		L	O	L	L	002 30	78 237 15 11	LWR	2174							
ABZ1136	BSJLG	13 37 57	-19 37 14	12	70		L	O	L	L	012 00	78 152 13 14	SWP	1683						TRAILED	
HD120136	HGLBD	13 44 53	17 42	4.51	41	E -.01	H	C	S	S	025 00	78 215 06 31	LWR	1958							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	000 08	78 143 08 43	SWP	1609							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	003 08	78 143 09 15	LWR	1545							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	000 01	78 181 06 50	SWP	1865							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	000 04	78 181 07 32	SWP	1752							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	003 10	78 181 20 24	SWP	1888							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	003 10	78 212 13 26	SWP	2150							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	003 09	78 213 16 31	SWP	1928							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	003 2	78 213 16 39	LWR	1430						TRAILED	
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	000 10	78 232 11 30	SWP	2339							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	003 09	78 232 12 19	LWR	2125							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	003 01	78 232 14 24	LWR	2127							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	000 01	78 232 15 34	LWR	2127						TRLO.12W	
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	000 01	78 232 15 34	LWR	2127						TRLO.29W	
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	000 01	78 232 15 44	SWP	2141						TRLO.30W	
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	000 01	78 232 15 44	SWP	2141						TRLO.29W	
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	003 10	78 243 15 27	SWP	2423							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	000 09	78 243 15 31	LWR	2226							
HD120136	PHCAL	13 45 00	49 33 44	1.91	21		H	C	S	S	000 06	78 243 15 34	SWP	2449							
HD120136	PHCAL	13 45 00	4																		

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OBJ ID	PRG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	R(B-V) OR B-V	DISP H/L	LG - OBJ APERTURE O/C	EXPOSE TIME MIN SEC	EXPOSURE			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	H	S							YR	DAY	HR		
HD121370	SKZHG	13 52 18	18 38 51	2.69	44	E0.58	L	O	O	I	033 00	78	125	09	30	SWP	1487	
HD121370	SKZHG	13 52 18	18 38 51	2.59	44	E0.58	H	O	O	I	015 00	78	125	10	35	LWR	1443	
-2 3766	ALBJ	13 56 45	-02 40 20	10.3	20		H	C	S		210 00	78	164	07	37	SWP	1777	
HD124570	HGLRL	14 11 41	13 12	5.48	41	E .05	H	C	S		060 00	78	215	07	44	LWR	1959	
HD124897	CEJLL	14 13 22	19 26	0.06	46	E0.00	L	L	C	C	020 00	78	095	12	20	SWP	1315	
HD124897	CEJLL	14 13 22	19 26	0.06	46	E0.00	L	L	C	C	020 00	78	095	13	36	SWP	1316	
HD124850	HGLRL	14 13 23	-05 46	4.07	41	E .02	H	C	S		021 00	78	214	08	54	LWR	1946	
NGC5548	EGAMS	14 15 43	25 21 57	13.5	80		L	L	O	O	084 00	78	178	07	20	SWP	1662	OFFSET
NGC5548	EGAMS	14 15 43	25 21 57	13.5	80		L	L	O	O	120 00	78	178	08	57	LWR	1738	
NGC5548	EGAMS	14 15 43	25 21 57	13.5	80		L	L	O	O	015 00	78	178	11	19	LWR	1738	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 15	78	207	13	03	LWR	1998	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 40	78	207	13	12	LWR	2109	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 15	78	207	14	16	LWR	1899	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	207	14		LWR	2110	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		000 02	78	207	16	48	LWR	1901	TRAILED
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 15	78	207	18	02	LWR	2112	TRAILED
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	207	18	06	LWR	2113	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	207	19	08	LWR	2114	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 15	78	207	19	14	LWR	1903	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 15	78	213	12	31	LWR	1938	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	213	12	39	LWR	2163	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 20	78	213	14	12	LWR	1939	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	213	14	05	LWR	1922	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		000 23	78	213	14	46	LWR	1940	T07"C16"
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		003 05	78	213	15	16	LWR	2167	T05"C03"
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	L	L	C	C	000 02	78	213	16	24	LWR	1941	TRAILED
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	L	L	C	C	000 02	78	213	16	44	LWR	2168	TRAILED
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	L	L	C	C	001 25	78	213	17	49	LWR	1942	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	214	11	57	LWR	2169	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 25	78	214	11	55	LWR	2172	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	214	11	55	LWR	2172	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 25	78	214	13	00	LWR	1946	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	214	13	08	LWR	2173	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		000 23	78	214	13	09	LWR	1950	T07"C16"
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		000 02	78	214	16	00	LWR	1951	T05"C03"
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	L	L	C	C	000 02	78	214	16	08	LWR	1974	TRAILED
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	L	L	C	C	001 25	78	214	17	09	LWR	1952	TRAILED
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	214	17	15	LWR	2176	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 25	78	214	18	11	LWR	1953	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	214	18	11	LWR	2177	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	215	15	58	LWR	1962	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	215	11	58	SWP	2179	

ORDERED BY RIGHT ASCENSION
SORTED BY PROGRAM ID

OBJ ID	PRG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	R(B-V) OR B-V	DISP H/L	LG - OBJ APERTURE O/C	EXPOSE TIME MIN SEC	EXPOSURE			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	H	S							YR	DAY	HR		
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 15	78	215	12	55	LWR	1963	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 20	78	215	13	01	LWR	2180	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		000 23	78	215	13	04	LWR	1964	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		000 02	78	215	15	03	LWR	1965	T07"C16"
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		000 02	78	215	15	03	LWR	2181	T05"C03"
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	L	L	C	C	000 02	78	215	15	03	LWR	2182	TRAILED
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 15	78	215	16	06	LWR	1966	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 20	78	215	16	06	LWR	2183	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 15	78	215	17	07	LWR	1967	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 25	78	215	17	07	LWR	2184	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 15	78	215	18	08	LWR	1968	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 20	78	215	18	08	LWR	1969	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 15	78	216	11	38	LWR	1970	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 25	78	216	11	46	LWR	2196	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 35	78	216	12	44	LWR	1977	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 35	78	216	12	51	LWR	2197	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 05	78	216	13	03	LWR	2198	T05"C03"
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	L	L	C	C	000 02	78	216	14	05	LWR	1978	T07"C16"
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	L	L	C	C	000 02	78	216	15	03	LWR	2149	TRAILED
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	L	L	C	C	001 25	78	216	16	04	LWR	1980	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 35	78	216	16	11	LWR	2200	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	216	17	00	LWR	1981	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 30	78	216	17	00	LWR	2201	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		001 25	78	216	17	00	LWR	1987	
A CEN	ACIAK	14 19 56	-39 17 05	4.41	27	E0.02	H	C	S		0							

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OBJ ID	PRGM ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	B (B-V) OR B-V	DISP H/L	LG APERTURE O/D	OBJ L/S	EXPOSE TIME		EXPOSURE			IMAGE SEQ WOB	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	START DAY	HR		
HD131156	CEJLL	14 49 05	19 10 27	4.54	44		H	O	L	012 30	78	233	04	55	LWR	2133				
161313CHE	PSRGT	14 49 07	-11 43 55	10.6	05		L	O	L	090 00	78	142	09	28	LWR	1538				
B 5586	CNIGH	14 58 18	-09 19 00	4.9	30	EO.00	H	C	S	015 00	78	232	02	26	LWR	2117				
4D133640	XSARK	15 02 09	47 50 53	4.76	44	EO.00	L	O	L	023 00	78	196	11	25	SWP	2015				
HD132240	MFZYK	15 12 55	-60 46	5.08	12		H	C	S	003 00	78	248	09	58	SWP	2498				
HD132240		15 12 55	-60 46	5.08	12		H	C	S	002 00	78	248	10	06	LWR	2478				
HD132240		15 12 55	-60 46	5.08	12		H	C	S	001 30	78	248	10	06	SWP	2495				
4D135591	OSFSC	15 14 45	-60 18	5.43	15	-0.06	H	C	S	003 30	78	282	08	11	LWR	2561				
HD136175	CBZJP	15 16 07	31 49 43	7.9	27	EO.00	L	O	L	000 20	78	223	02	38	SWP	2262				
HD136175		15 16 07	31 49 43	7.9	27	EO.00	L	O	L	000 20	78	223	02	45	SWP	2262				
HD136175		15 16 07	31 49 43	7.9	27	EO.00	L	O	L	000 15	78	223	03	17	LWR	2042				
HD136175		15 16 07	31 49 43	7.9	27	EO.00	L	O	L	000 35	78	223	03	23	LWR	2042				
HD136202	MGLRD	15 16 45	01 57	5.06	41	EO.02	H	C	S	045 10	78	214	10	03	LWR	1947				
HD137909	AFEBV	15 25 45	29 15 37	3.7	35	EO.27	H	C	S	015 00	78	259	06	13	LWR	2369				
HD137909		15 25 45	29 15 37	3.7	35	EO.27	H	C	S	050 00	78	259	06	47	SWP	2661				
HD137909		15 25 45	29 15 37	3.7	35	EO.27	H	C	S	007 00	78	259	04	36	LWR	2382				
HD137909		15 25 45	29 15 37	3.7	35	EO.27	H	C	S	030 00	78	259	04	36	SWP	2667				
HD140283		15 40 22	-10 46 17	7.2	44		L	O	O	180 00	78	259	02	19	SWP	2660				
HD140283		15 40 22	-10 46 17	7.2	44		L	O	O	020 00	78	259	05	25	SWP	2660				
ALP 528	CEJLL	15 41 43	06 35	2.55	46		L	O	L	050 00	78	235	16	56	SWP	2378				
HD140573		15 41 43	06 35	2.65	46		L	O	L	140 00	78	237	16	06	SWP	2397				
GD 190	BSJLG	15 42 01	18 16 10	14.6	29		L	O	L	120 00	78	152	07	43	SWP	1682				
GD 190		15 42 01	18 16 10	14.6	29		L	O	L	120 00	78	152	09	06	LWR	1588				
HD141004	MGLRD	15 44 01	07 31	4.13	41	EO.02	H	C	S	025 00	78	215	09	29	LWR	1960				
HD13591	OSFSC	15 46 46	-60 18	5.43	15	-0.06	H	C	S	003 30	78	282	08	00	SWP	2894				
HD141556	MVCSL	15 47 46	-33 29	3.9	27	EO.00	H	C	S	012 30	78	100	00	43	SWP	1341				
HD141556		15 47 46	-33 29	3.9	27	EO.00	H	C	S	006 00	78	100	01	21	LWR	1295				
HR 5282	AFEBV	15 48 19	04 37 36	3.7	35	EO.16	H	C	S	006 00	78	265	03	56	LWR	2430				
HR 5282		15 48 19	04 37 36	3.7	35	EO.16	H	C	S	020 00	78	265	04	11	SWP	2725				
+332642	ALEBJ	15 50 09	33 05 41	10.8	20	EO.09	H	C	S	240 00	78	164	12	19	SWP	1778				
HD132642	PBCAL	15 50 01	33 05	10.83	20	EO.07	L	O	C	065 00	78	162	19	38	SWP	1766				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	005 00	78	162	19	48	SWP	1766				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	004 00	78	162	20	00	LWR	1657				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	004 00	78	162	20	57	LWR	1657				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	019 24	78	162	21	22	SWP	1767				

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OBJ ID	PRGM ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	B (B-V) OR B-V	DISP H/L	LG APERTURE O/D	OBJ L/S	EXPOSE TIME		EXPOSURE			IMAGE SEQ WOB	OBSERVERS COMMENTS
		H	M	S	D	M	S							MIN	SEC	YR	START DAY	HR		
HD132642	PBCAL	15 50 01	33 05	10.83	20	EO.07	L	O	C	065 00	78	162	19	38	SWP	1766				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	005 00	78	162	19	48	SWP	1766				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	004 00	78	162	20	00	LWR	1657				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	004 00	78	162	20	57	LWR	1657				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	019 24	78	162	21	22	SWP	1767				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	003 45	78	201	18	08	LWR	1859				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	003 45	78	201	18	30	SWP	1859				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	004 45	78	201	18	30	SWP	1859				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	004 45	78	201	18	30	SWP	1859				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	004 00	78	233	15	32	SWP	2353				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	004 00	78	233	15	39	SWP	2353				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	003 10	78	233	15	55	LWR	2137				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	003 10	78	233	15	55	LWR	2137				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	003 00	78	233	15	10	LWR	1384				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	003 00	78	233	15	14	LWR	1384				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	004 00	78	271	14	33	SWP	2797				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	006 15	78	271	14	33	SWP	2797				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	005 00	78	271	14	54	LWR	2480				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	003 10	78	271	15	11	LWR	2690				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	006 00	78	121	23	56	SWP	1457				
HD132642		15 50 01	33 05	10.83	20	EO.07	L	O	C	006 00	78	121	23	56	SWP	1457				
HD142373	MGLRD	15 50 57	43 35	4.60	41	EO.01	H	C	S	030 00	78	215	03	59	LWR	1956				
HD142373		15 50 57	43 35	4.60	41	EO.01	H	C	S	022 00	78	206	11	36	LWR	2804				
HD142373		15 50 57	43 35	4.60	41	EO.01	H	C	S	013 00	78	215	10	39	LWR	1961				
HD143375	XBEVB	15 55 49	-25 58 18	2.90	20	EO.07	H	C	S	000 22	78	198	15	18	SWP	2035				
HD143375		15 55 49	-25 58 18	2.90	20	EO.07	H	C	S	000 20	78	198	15	36	LWR	1840				
HD143375		15 55 49	-25 58 18	2.90	20	EO.07	H	C	S	000 13	78	197	19	43	LWR	1837				
HD143375		15 55 49	-25 58 18	2.90	20	EO.07	H	C	S	000 17	78	198	14	32	SWP	2034				
HD143761	MGLRD	15 59 04	33 27	5.40	44	EO.60	H	C	S	065 00	78	306	00	12	LWR	2798				
HD143807	MVCSL	15 59 25	29 59	4.9	27	EO.00	H	C	S	027 00	78	098	23	28	SWP	1331				
HD143807		15 59 25	29 59	4.9	27	EO.00	H	C	S	011 00	78	099	00	47	LWR	1289				
HD143807		15 59 25	29 59	4.9	27	EO.00	H	C	S	010 00	78	099	01	47	SWP	1334				
HD143807		15 59 25	29 59	4.9	27	EO.00	H	C	S	038 00	78	101	23	49	SWP	1368				
HD143807		15 59 25	29 59	4.9	27	EO.00	H	C	S	012 30	78	102	01	12	LWR	1308				
HR 6023	AFEBV	16 07 11	45 03 54	4.3	22	EO.06	H	C	S	007 00	78	260	05	07	LWR	2383				
HR 6023		16 07 11	45 03 54	4.3	22	EO.06	H	C	S	020 00	78	260	06	04	SWP	2668				
HD146213	ALEBJ	16 14 39	55 55 23	9.1	20		H	C	S	096 00	78	163	11	50	SWP	1772				
SDO X 1	SX2HG	16 17 04	-15 31 14	13.5	59	EO.0	L	O	L	040 00	78	123	09	36	SWP	1470				
SDO X 1		16 17 04	-15 31 14	13.5	59	EO.0	L	O	L	040 00	78	123	10	36	LWR	1438				
SDO X 1	XBEVB	16 17 04	-15 31 15	13	59		L	O	O	060 00	78	120	12	05	SWP	1484				
SDO X 1		16 17 04	-15 31 15	13	59		L	O	O	020 00	78	120	13	17	SWP	1484				
SDO X 1		16 17 04	-15 31 15	13	59		L	O	O	040 00	78	120	13	17	LWR	1420				
SDO X 1		16 17 04	-15 31 15	13	59		L	O	O	040 00	78	121	12	00	SWP	1452				
SDO X 1		16 17 04	-15 31 15	13	59		L	O	O	035 00	78	122								

OBJ ID	PRGM ID	TARGET RA		TARGET DEC		VIS MAG	OBJ CLASS	E(B-V) OR B-V	DISP R/L	LG - OBJ APERTURE O/C I/S	EXPOSE TIME		EXPOSURE START TIME		IMAGE SEQ NBR	OBSERVERS COMMENTS
		H	M	S	D						M	S	MIN	SEC		
SCC X 1	XBEVD	16 17 04	-15 31 15	13	59	L	O	L	O	040	00	78	127	11 41	LWR	1450
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	040	00	78	127	13 29	SWP	2028
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	040	00	78	127	13 03	SWP	2033
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	040	00	78	127	05 50	SWP	2039
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	040	00	78	127	06 40	LWR	1846
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	040	00	78	127	07 29	SWP	2040
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	040	00	78	127	08 08	SWP	2044
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	040	00	78	127	08 07	SWP	2062
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	040	00	78	127	06 06	LWR	1866
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	050	00	78	202	06 06	SWP	2063
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	050	00	78	202	08 08	SWP	2064
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	050	00	78	202	09 41	SWP	2065
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	050	00	78	202	11 15	SWP	2066
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	050	00	78	203	05 05	LWR	1875
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	050	00	78	203	06 37	SWP	2077
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	050	00	78	203	05 33	SWP	2078
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	050	00	78	203	09 09	SWP	2079
SCC X 1		16 17 04	-15 31 15	13	59	L	O	L	O	050	00	78	203	10 23	SWP	2080
SCC X 1	XPBVB	16 17 04	-15 31 15	13	59	L	O	L	O	040	00	78	127	10 43	SWP	1499
HD147165	XBEVB	16 18 09	-25 23 29	2.9	23	H	C	S	S	000	50	78	197	16 01	LWR	1835
HD147165		16 18 09	-25 23 29	2.9	23	H	C	S	S	001	50	78	197	16 25	SWP	2029
HD147889	IMBDD	16 22 22	-24 21 07	7.9	20	L	O	L	O	026	00	78	271	01 17	SWP	2792
HD147889		16 22 22	-24 21 07	7.9	20	L	O	L	O	019	00	78	271	01 49	LWR	2485
HD147889		16 22 22	-24 21 07	7.9	20	L	O	L	O	007	06	78	271	02 35	SWP	2793
HD147889		16 22 22	-24 21 07	7.9	20	L	O	L	O	006	00	78	271	03 48	LWR	2483
HD147933	ICJdB	16 22 34	-23 19 57	4.63	21	H	C	S	S	006	00	78	117	22 30	SWP	1429
HD147933		16 22 34	-23 19 57	4.63	21	H	C	S	S	004	00	78	117	23 30	LWR	1404
HD147933		16 22 34	-23 19 57	4.63	21	H	C	S	S	009	00	78	118	01 17	SWP	1430
HD147933		16 22 34	-23 19 57	4.63	21	H	C	S	S	003	00	78	118	02 13	SWP	1431
HD147933	XBEVB	16 22 35	-23 20 02	5.2	21	H	C	S	S	006	00	78	197	17 44	SWP	2030
HD147933		16 22 35	-23 20 02	5.2	21	H	C	S	S	005	00	78	197	18 26	LWR	1836
HR 5117	AF20V	16 23 06	-14 09 49	4.6	27	H	C	S	S	009	00	78	265	05 16	LWR	2431
HR 5117		16 23 06	-14 09 49	4.6	27	H	C	S	S	012	00	78	265	05 30	SWP	2726
HD148387	CCAKD	16 23 18	-61 37	2.77	45	L	O	L	O	045	00	78	135	18 05	SWP	1551
HD148387		16 23 18	-61 37	2.77	45	L	O	L	O	045	00	78	135	15 10	LWR	1499
HD148184	CBAJP	16 24 07	-18 21	4.4	20	H	C	S	S	012	00	78	228	06 40	SWP	2305
HD148184	IMDDI	16 24 07	-18 20 40	4.3	12	H	C	S	S	004	00	78	273	15 17	LWR	2505
HD148184		16 24 07	-18 20 40	4.3	12	H	C	S	S	008	00	78	275	08 34	SWP	2831
HD148184	XBEVD	16 24 07	-18 20 41	4.3	20	H	C	S	S	001	40	78	202	15 58	LWR	1868

OBJ ID	PRGM ID	TARGET RA		TARGET DEC		VIS MAG	OBJ CLASS	E(B-V) OR B-V	DISP R/L	LG - OBJ APERTURE O/C I/S	EXPOSE TIME		EXPOSURE START TIME		IMAGE SEQ NBR	OBSERVERS COMMENTS
		H	M	S	D						M	S	MIN	SEC		
HD148184	XBEVB	16 24 07	-18 20 41	4.3	20	H	C	S	S	001	40	78	202	16 07	SWP	2069
HD148379	IMBDD	16 26 04	-46 08 03	5.4	23	L	O	L	O	000	30	78	273	10 21	LWR	2502
HD148379		16 26 04	-46 08 03	5.4	23	L	O	L	O	000	30	78	273	10 30	SWP	2809
HD148379		16 26 04	-46 08 03	5.4	23	L	O	L	O	004	00	78	273	10 30	SWP	2809
HD148379		16 26 04	-46 08 03	5.4	23	L	O	L	O	020	00	78	273	11 04	SWP	2803
HD148379		16 26 04	-46 08 03	5.4	23	L	O	L	O	000	00	78	273	11 34	SWP	2810
HD148379		16 26 04	-46 08 03	5.4	23	L	O	L	O	002	55	78	273	11 40	SWP	2810
HD148379		16 26 04	-46 08 03	5.4	23	L	O	L	O	120	00	78	274	22 36	SWP	2829
HD148379		16 26 04	-46 08 03	5.4	23	L	O	L	O	050	00	78	275	00 48	SWP	2521
HD148379		16 26 04	-46 08 03	5.4	23	L	O	L	O	100	00	78	275	01 54	SWP	2830
HD148379		16 26 04	-46 08 03	5.4	23	L	O	L	O	030	00	78	275	07 16	LWR	2522
ROSS 640	BSJLG	16 26 37	36 52 33	13.9	40	L	O	L	O	180	00	78	151	08 53	LWR	1586
HD148783	LTFW	16 26 59	41 59 27	5.0	43	L	O	L	O	015	00	78	109	12 31	LWR	1340
HD148783		16 26 59	41 59 27	5.0	43	L	O	L	O	180	00	78	109	14 31	SWP	1387
HD148783		16 26 59	41 59 27	5.0	43	L	O	L	O	005	00	78	109	17 21	LWR	1341
HD148783		16 26 59	41 59 27	5.0	43	L	O	L	O	045	00	78	109	17 40	LWR	1341
HD148937	ICJHB	16 30 09	-48 00 24	6.71	15	H	C	S	S	025	00	78	268	04 47	LWR	2455
HD148937		16 30 09	-48 00 24	6.71	15	H	C	S	S	075	00	78	268	05 17	SWP	2754
HD148937		16 30 09	-48 00 24	6.71	15	H	C	S	S	100	00	78	268	06 37	LWR	2456
HD148937	OSESC	16 30 09	-48 00 00	6.71	15	H	C	S	S	000	45	78	145	21 44	SWP	1637
HD148937		16 30 09	-48 00 00	6.71	15	H	C	S	S	060	00	78	162	05 56	SWP	2893
HD148937	BLJBE	16 30 10	-48 00 00	6.88	15	L	O	L	O	015	00	78	209	13 55	SWP	2110
HD148937		16 30 10	-48 00 00	6.88	15	L	O	L	O	060	00	78	211	13 47	SWP	2152
HD148937		16 30 10	-48 00 00	6.88	15	L	O	L	O	057	00	78	288	11 31	SWP	2988
HD149038	XBEVB	16 30 31	-43 56 29	4.89	13	H	C	S	S	004	00	78	198	19 38	LWR	1843
HD149038		16 30 31	-43 56 29	4.89	13	H	C	S	S	004	00	78	202	13 01	SWP	2068
HD149438	PHCAL	16 32 45	-28 06 50	2.91	20	H	C	S	S	000	06	78	161	16 01	SWP	1758
HD149438		16 32 45	-28 06 50	2.91	20	H	C	S	S	000	06	78	161	18 21	SWP	1649
HD149438		16 32 45	-28 06 50	2.91	20	H	C	S	S	000	09	78	161	21 10	SWP	1760
HD149438		16 32 45	-28 06 50	2.91	20	H	C	S	S	002	09	78	255	13 18	LWR	1334
HD149438		16 32 45	-28 06 50	2.91	20	H	C	S	S	000	11	78	255	13 24	LWR	2332
HD149438	XBEVB	16 32 46	-28 06 51	2.94	20	H	C	S	S	000	12	78	198	18 29	SWP	2037
HD149438		16 32 46	-28 06 51	2.94	20	H	C	S	S	000	12	78	198	19 33	LWR	1842
HD149438		16 32 46	-28 06 51	2.94	20	H	C	S	S	000	12	78	202	13 21	LWR	1867
HD149438		16 32 46	-28 06 51	2.94	20	H	C	S	S	000	12	78	202	13 21	SWP	2067
HD149404	ICJHB	16 32 51	-42 45 27	5.53	13	H	C	S	S	045	00	78	268	08 35	SWP	2755
HD149404		16 32 51	-42 45 27	5.53	13	H	C	S	S	014	00	78	268	09 27	LWR	2457
HD149404		16 32 51	-42 45 27	5.53	13	H	C	S	S	030	00	78	268	09 57	SWP	2756
HD149404		16 32 51	-42 45 27	5.53	13	H	C	S	S	014	00	78	268	10 32	LWR	2458

ORDERED BY RIGHT ASCENSION
SORTED BY PROGRAM ID

OBJ ID	PRCG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E (B-V) OR B-V	DISP H/L	LG - OBJ APERTURE O/C	OBJ L/S	EXPOSE TIME		EPOSURE START TIME				IMAGE SEQ NUM	OBSERVERS COMMENTS	
		H	M	S	D	M	S							MIN	SEC	YR	DAY	HR	MIN			
12VICTOR	PSMGT	16 51 44	-19 07 40	9.5	95						L	C	S	090	00	78	141	14	24	LWR	1533	
165239 PK 501	OD4AB	16 52 11	39 50 25	14	95						L	O	L	380	00	78	237	03	22	SWP	2394	
165239 PK 501	RSELH	16 52 11	39 50 25	14	97						L	O	L	360	00	78	200	23	08	LWR	2177	
165239 PK 501	RSELH	16 52 11	39 50 25	14	87						L	O	L	320	00	78	297	00	44	SWP	2133	
165239 PK 501	RSELH	16 52 11	39 50 25	14	87						L	O	L	320	00	78	297	00	44	SWP	2729	
1652667	MFZYK	16 53 06	-40 44 44	6.23	23						H	H	S	030	00	78	250	05	32	SWP	2511	
1652667	MFZYK	16 53 06	-40 44 44	6.23	23						H	H	S	015	00	78	250	05	11	LWR	2295	
1652667	MFZYK	16 53 06	-40 44 44	6.23	23						H	H	S	015	00	78	254	06	35	LWR	2318	
1652667	MFZYK	16 53 06	-40 44 44	6.23	23						H	H	S	030	00	78	254	07	00	SWP	2624	
1652667	MSAKD	16 53 06	-40 44 43	6.07	23						H	H	S	018	00	78	191	17	06	SWP	1959	
1652667	MSAKD	16 53 06	-40 44 44	6.10	23						H	H	S	022	00	78	194	15	04	SWP	1893	
1652667	MSAKD	16 53 06	-40 44 44	6.10	23						H	H	S	025	00	78	195	15	04	SWP	2010	
1652667	MSAKD	16 53 06	-40 44 44	6.10	23						H	H	S	000	11	78	195	19	14	LWR	1828	
1652667	CH2GU	16 53 07	-40 44 00	6.2	23						H	H	S	030	00	78	234	15	57	SWP	2366	
1652667	CH2GU	16 53 07	-40 44 00	6.2	23						H	H	S	015	00	78	234	16	05	LWR	2150	
1652667	CH2GU	16 53 07	-40 44 00	6.2	23						H	H	S	030	00	78	234	17	05	SWP	2367	
1652667	CH2GU	16 53 07	-40 44 00	6.2	23						H	H	S	000	05	78	234	17	10	SWP	2367	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	025	00	78	206	11	33	SWP	2101	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	00	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	12	78	206	15	09	SWP	2102	
1652667	ELJBB	16 53 07	-40 44 44	6.2	20						H	H	S	000	1							

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OBJ ID	PRCG IC	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E (δ-V) OR 9-V	DISP H/L	IG APERTURE O/C	OBJ L/S	EXPOSE TIME MIN SEC	EPOSURE START TIME			IMAGZ SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S								YR	DAY	HR		
HD 163181	PGJSS	17 53 59	-32 28 06	6.40	33	E0.73	L	C	S	000 28	78 135 21 58	LWR	1501						
V543500		17 53 59	-32 28 06	6.5	20	E0.71	L	C	S	060 00	78 137 24 56	SWP	1568						
V543500		17 53 59	-32 28 06	6.5	20	E0.73	L	C	S	035 00	78 137 23 04	LWR	1510						
V543500		17 53 59	-32 28 06	6.50	20	E0.73	L	C	S	090 00	78 139 23 04	SWP	1578						
HD 163181	LSDKW	17 53 00	-32 27 27	6.6	20	E0.73	H	C	S	120 00	78 249 05 17	SWP	2503						
HD 163181		17 53 00	-32 27 27	6.6	20	E0.5	L	C	S	120 00	78 287 00 21	SWP	2965						
HD 163181	HLJBB	17 53 00	-32 27 27	6.6	23	E0.7	L	C	S	001 30	78 208 09 05	SWP	2119						
HD 163181		17 53 00	-32 27 27	6.6	23	E0.7	L	C	S	001 30	78 208 09 16	SWP	2118						
HD 163181		17 53 00	-32 27 27	6.6	23	E0.7	L	C	S	020 00	78 208 03 24	LWR	1904						
HD 163181		17 53 00	-32 27 27	6.6	23	E0.5	L	C	S	025 00	78 284 07 27	LWR	2572						
HD 163181		17 53 00	-32 27 27	6.6	23	E0.7	L	C	S	003 00	78 284 08 02	SWP	2912						
HD 163181		17 53 00	-32 27 27	6.6	23	E0.7	L	C	S	001 30	78 284 08 11	SWP	2912						
HD 163181	PGJSS	17 53 00	-32 28 15	6.4	23	E0.73	H	C	S	065 00	78 220 06 43	SWP	2235						
HD 163181		17 53 00	-32 28 15	6.4	23	E0.73	H	C	S	031 00	78 220 07 56	LWR	2013						
HD 163296	CBMJF	17 53 21	-21 56 57	6.8	30	E0.00	L	C	S	000 30	78 225 14 25	LWR	2065						
HD 163296		17 53 21	-21 56 57	6.8	30	E0.00	L	C	S	000 30	78 225 14 36	LWR	2065						
HD 163296		17 53 21	-21 56 57	6.8	30	E0.15	L	C	S	000 53	78 225 15 07	SWP	2283						
HD 163296		17 53 21	-21 56 57	6.8	30	E0.15	L	C	S	000 53	78 225 15 14	SWP	2283						
HD 163758	OSFSC	17 56 06	-36 01 01	7.31	15	E0.37	L	C	S	000 16	78 145 22 52	SWP	1638						
HD 163758		17 56 06	-36 01 01	7.31	15	E0.07	L	C	S	030 00	78 282 03 31	LWR	2560						
HD 163758		17 56 06	-36 01 01	7.31	15	E0.07	H	C	S	036 00	78 282 04 13	SWP	2892						
HD 164353	SGABU	17 58 08	02 55 56	4.00	24	E0.18	H	C	S	003 30	78 177 15 34	SWP	1857						
HD 164353		17 58 08	02 55 56	4.00	24	E0.18	H	C	S	002 30	78 177 16 04	LWR	1735						
HD 164353		17 58 08	02 55 56	4.00	24	E0.18	H	C	S	008 00	78 177 18 18	LWR	1736						
HD 164353		17 58 08	02 55 56	4.00	24	E0.18	H	C	S	008 00	78 177 18 32	SWP	1858						
HD 164270	OSFSC	17 58 23	-32 43 55	9.01	10	E0.33	L	C	S	002 00	78 276 09 03	SWP	2845						
HD 164270		17 58 23	-32 43 55	9.01	10	E0.33	L	C	S	002 00	78 276 09 13	SWP	2845						
HD 164270		17 58 23	-32 43 55	9.02	10	E0.33	L	C	S	002 00	78 276 09 25	LWR	2531						
HD 164270		17 58 23	-32 43 55	9.02	10	E0.33	L	C	S	002 00	78 276 09 27	LWR	2511						
HD 164270		17 58 26	-32 42 55	9.01	10	E0.33	H	C	S	160 00	78 278 01 00	SWP	2855						
HD 164270		17 58 26	-32 42 55	9.01	10	E0.33	H	C	S	180 00	78 279 23 31	LWR	2547						
NGC 6543	PHCAL	17 58 34	66 38 05	7.0	70	E0.00	L	C	S	030 00	78 188 17 11	LWR	1795						
NGC 6543	PP2ED	17 58 34	66 38 05	7.6	70	E0.00	L	C	S	004 00	78 182 17 43	SWP	1897						
NGC 6543		17 58 34	66 38 05	7.6	70	E0.00	L	C	S	020 00	78 182 17 54	SWP	1877						
NGC 6543		17 58 34	66 38 05	7.6	70	E0.00	L	C	S	004 00	78 182 18 26	LWR	1761						
NGC 6543		17 58 34	66 38 05	7.6	70	E0.00	L	C	S	020 00	78 182 18 37	LWR	1761						
NGC 6543	HSSRU	17 58 36	66 38 38	9.5	70	E0.00	L	C	S	000 00	78 097 20 22	SWP	1328						
NGC 6543		17 58 36	66 38 38	9.5	70	E0.00	L	C	S	010 00	78 097 20 22	SWP	1328						
NGC 6523	PP2ED	18 00 29	-24 22 45	7.2	72	E0.00	L	C	S	030 00	78 187 18 48	LWR	1787						

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OBJ ID	PRCG IC	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E (δ-V) OR 9-V	DISP H/L	IG APERTURE O/C	OBJ L/S	EXPOSE TIME MIN SEC	EPOSURE START TIME			IMAGZ SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S								YR	DAY	HR		
HD 164794	IMBDD	18 00 36	-24 22 52	9.5	12	E1.10	L	C	S	012 00	78 271 04 49	LWR	2484						
HD 164794		18 00 36	-24 22 52	9.5	12	E1.10	L	C	S	120 00	78 271 05 10	SWP	2794						
HD 164794		18 00 36	-24 22 52	9.5	12	E1.10	L	C	S	012 00	78 271 05 45	LWR	2465						
HD 164794		18 00 36	-24 22 52	9.5	12	E1.10	L	C	S	020 00	78 273 07 56	SWP	2808						
HD 164794		18 00 36	-24 22 52	9.5	12	E1.10	L	C	S	040 00	78 273 08 40	SWP	3208						
HD 164794		18 00 38	-24 22 46	9.5	12	E1.10	L	C	S	080 00	78 273 01 46	LWR	2500						
HD 164794	OSFSC	18 00 38	-24 22 22	5.97	12	E0.33	H	C	S	010 00	78 141 19 13	LWR	1534						
NGC 6523	PP2ED	18 00 39	-24 22 18	7.2	72	E0.00	L	C	S	030 00	78 187 16 48	LWR	1786						
NGC 6523		18 00 39	-24 22 18	7.2	72	E0.00	L	C	S	025 00	78 187 17 58	SWP	1924						
HD 164794	OSFSC	18 00 48	-24 22 22	5.97	12	E0.33	H	C	S	008 00	78 141 18 36	SWP	1595						
HD 164794		18 00 48	-24 22 22	5.97	12	E0.33	L	C	S	000 10	78 141 19 47	SWP	1596						
HD 164794		18 00 49	-24 22 22	5.97	12	E0.33	L	C	S	000 10	78 141 19 56	SWP	1596						
99 HRGLS	PN2AB	18 00 49	-24 22 22	8	72	E0.00	L	C	S	025 00	78 159 21 21	LWR	1640						
99 HRGLS	HGLBD	18 05 08	30 33	5.04	41	E0.52	L	C	S	040 00	78 306 04 07	LWR	2800						
HD 165763	OSFSC	18 05 29	-21 16 16	8.22	10	E0.20	L	C	S	000 20	78 276 12 05	SWP	2847						
HD 165763		18 05 29	-21 16 16	8.22	10	E0.20	L	C	S	000 20	78 276 12 12	SWP	2847						
HD 165763		18 05 29	-21 16 16	8.22	10	E0.20	L	C	S	000 20	78 276 12 18	SWP	2533						
HD 165763		18 05 29	-21 16 16	8.22	10	E0.20	L	C	S	000 20	78 276 12 23	LWR	2533						
HD 165763		18 05 29	-21 16 16	8.22	10	E0.20	L	C	S	020 00	78 280 03 44	LWR	2533						
HD 165763		18 05 29	-21 16 16	8.22	10	E0.20	H	C	S	020 00	78 280 03 44	SWP	2872						
HD 166126	CBMJF	18 06 58	-15 34 34	8.6	41	E0.00	L	C	S	010 00	78 223 05 38	LWR	2044						
HD 166126		18 06 58	-15 34 34	8.6	41	E0.00	L	C	S	005 00	78 223 06 08	LWR	2044						
HD 166126		18 06 58	-15 34 34	8.6	41	E0.00	L	C	S	015 00	78 223 06 21	SWP	2264						
HD 166126		18 06 58	-15 34 34	8.6	41	E0.00	L	C	S	005 00	78 223 06 48	SWP	2264						
HD 166126		18 06 58	-15 34 34	8.6	41	E0.00	L	C	S	030 00	78 223 09 12	SWP	2307						
NGC 6572	PN2AB	18 09 40	06 50 25	9	70	E0.00	L	C	S	012 19	78 154 07 32	LWR	1606						
NGC 6572	PP2ED	18 09 40	06 50 25	8.8	70	E0.00	L	C	S	012 00	78 305 01 36	LWR	2783						
NGC 6572		18 09 40	06 50 25	8.8	70	E0.00	L	C	S	012 00	78 305 02 41	SWP	3200						
NGC 6572		18 09 40	06 50 25	8.8	70	E0.00	L	C	S	012 00	78 305 02 45	LWR	2264						
NGC 6572		18 09 40	06 50 25	8.8	70	E0.00	L	C	S	018 00	78 305 03 49	SWP	3201						
NGC 6572	PN2AB	18 09 42	06 50 25	9	70	E0.00	L	C	S	012 33	78 154 08 19	SWP	1703						
NGC 6572		18 09 42	06 50 25	9	70	E0.00	L	C	S	007 00	78 154 08 40	SWP	1703						
HD 166937	CBMJF	18 10 46	-21 04 26	3.85	25	E0.22	H	C	S	015 00	78 223 04 13	SWP	2263						
HD 166937		18 10 46	-21 04 26	3.85	25	E0.24	L	C	S	004 00	78 223 04 50	LWR	2043						
HD 166937		18 10 46	-21 04 26	3.85	25	E0.22	L	C	S	000 00	78 228 08 07	LWR	2085						
HD 166937		18 10 46	-21 04 26	3.85	25	E0.22	L	C	S	000 00	78 228 07 48	SWP	2306						
HD 166937	HFZYK																		

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CRJ ID	PRG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	B (B-V) OR B-V	DISP H/L	LG - OBJ APERTURE O/C	EXPOSE TIME MIN SEC	EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S							YR	DAY	HR		
HD166937	MPZYK	18 20 46	-21 04 25	3.86	25			H	C	S	005 01	78	248	07	56	LWB	2277	
HD166937	MPZYK	18 20 46	-21 04 25	3.86	25			H	C	S	009 00	78	248	08	41	LWB	2493	
HD167771	IMDD	18 14 32	-18 28 58	6.5	14			H	C	S	014 00	78	275	09	14	LWF	2523	
HD167771	IMDD	18 14 32	-18 28 58	6.5	14			H	C	S	012 00	78	275	09	45	LWF	2832	
AM 18 14 56	SXZEG	18 14 49	50 55	13.11	59			L	C	S	045 00	78	122	12	54	LWB	1441	
AM 18 14 50	SXZEG	18 14 49	50 55	13.11	59			L	C	S	010 00	78	203	16	21	LWB	1462	
AM 18 14 50	SXZEG	18 14 49	50 55	13.13	59			L	C	S	010 00	78	203	16	53	LWB	2084	
AM 18 14 50	SXZEG	18 14 49	50 55	13.13	59			L	C	S	030 00	78	203	19	13	LWB	1875	
AM 18 14 50	SXZEG	18 14 49	50 55	13.13	59			L	C	S	030 00	78	204	18	24	LWB	2090	
AM 18 14 50	XSAKL	18 14 49	50 55	12.13	59			L	C	S	014 01	78	128	18	40	LWB	1507	
AM 18 14 50	XSAKL	18 14 49	50 55	12.13	59			L	C	S	010 00	78	128	20	02	LWB	1459	
AM 18 14 50	XSAKL	18 14 49	50 55	12.13	59			L	C	S	010 00	78	129	19	16	LWB	1480	
AM 18 14 50	XSAKL	18 14 49	50 55	12.13	59			L	C	S	005 00	78	129	19	18	LWB	1512	
AM 18 14 50	XSAKL	18 14 49	50 55	12.13	59			L	C	S	010 00	78	129	19	54	LWB	1512	
AM 18 14 50	XSAKL	18 14 49	50 55	12.13	59			L	C	S	005 00	78	132	18	11	LWB	1527	
AM 18 14 50	XSAKL	18 14 49	50 55	12.13	59			L	C	S	005 00	78	132	18	27	LWB	1527	
AM 18 14 50	XSAKL	18 14 49	50 55	13.11	59			L	C	S	015 00	78	136	20	09	LWB	1548	
AM 18 14 50	XSAKL	18 14 49	50 55	13.12	59			L	C	S	005 00	78	135	07	48	LWB	1549	
AM 18 14 50	SXZEG	18 14 49	50 55	13	59			L	C	S	010 00	78	204	19	05	LWR	1880	
AM 18 14 50	SXZEG	18 14 49	50 55	13	59			L	C	S	010 00	78	204	19	39	LWR	2091	
AM 18 15 24	PGZSS	18 15 24	-66 06 15	10	12			L	C	S	045 00	78	220	09	14	LWB	2236	
AM 18 15 24	PGZSS	18 15 24	-66 06 15	10	12			L	C	S	045 00	78	220	10	08	LWB	2236	
AM 18 15 24	PGZSS	18 15 24	-66 06 15	9	12			L	C	S	045 00	78	221	03	14	LWB	2023	
AM 18 15 24	PGZSS	18 15 24	-66 06 15	9	12			L	C	S	045 00	78	221	04	07	LWB	2023	
AM 18 15 24	PGZSS	18 15 24	-66 06 15	11.2	12			L	C	S	025 00	78	136	20	54	LWB	1561	
AM 18 15 24	PGZSS	18 15 24	-66 06 15	11.2	12			L	C	S	010 00	78	136	21	31	LWB	1561	
HD168733	MVDSL	18 19 30	-36 42	5.4	27			H	C	S	009 00	78	295	00	16	LWB	3097	
HD168733	MVDSL	18 19 30	-36 42	5.4	27			H	C	S	005 45	78	295	00	16	LWB	2671	
HD168733	MVDSL	18 19 30	-36 42	5.4	27			H	C	S	015 00	78	295	00	58	LWB	3093	
NGC6624B	SXZEG	18 20 27	-30 23 14	13.2	83			L	C	S	180 00	78	126	10	04	LWB	1493	
NGC6624	XSAKL	18 20 30	-30 23	8.6	83			L	C	S	090 00	78	128	12	34	LWB	1458	
HD169454	ELJBB	18 22 26	-14 00	6.6	23			L	C	S	025 00	78	208	10	36	LWB	2120	
HD169454	ELJBB	18 22 26	-14 00	6.6	23			L	C	S	030 00	78	208	07	31	LWB	2985	
HD169515	PGZSS	18 22 42	-12 43 09	9.40	20			L	C	S	045 00	78	134	17	01	LWB	1493	
HD169515	PGZSS	18 22 42	-12 43 09	9.40	20			L	C	S	019 00	78	134	17	56	LWB	1543	
HD169753	CBRJP	18 23 49	-09 14	7.5	23			L	C	S	002 00	78	225	08	33	LWB	2279	
HD169753	CBRJP	18 23 49	-09 14	7.5	23			L	C	S	001 00	78	225	08	41	LWB	2279	
HD169753	CBRJP	18 23 49	-09 14	7.5	23			L	C	S	001 00	78	225	08	46	LWB	2062	

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CRJ ID	PRG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	B (B-V) OR B-V	DISP H/L	LG - OBJ APERTURE O/C	EXPOSE TIME MIN SEC	EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S							YR	DAY	HR		
HD169753	CBRJP	18 23 49	-09 14	7.5	23			L	C	S	020 00	78	225	08	33	LWB	2062	
HD169753	CBRJP	18 23 49	-09 14	7.5	23			L	C	S	020 00	78	225	09	33	LWB	4280	
NGC 6644	FM2AE	18 29 30	-25 10	10	70			L	C	S	030 00	78	157	19	31	LWB	1734	
NGC 6644	FM2AE	18 29 30	-25 10	10	70			L	C	S	040 00	78	157	20	19	LWB	1630	
NGC 6644	FM2AE	18 29 30	-25 10	10	70			L	C	S	005 00	78	157	21	07	LWB	1735	
AM 18 31 43	AFEBV	18 31 43	57 00 24	4.8	41			L	C	S	035 00	78	260	08	39	LWB	2385	
AM 18 31 43	AFEBV	18 31 43	57 00 24	4.8	41			L	C	S	060 00	78	260	09	33	LWB	2670	
AM 18 31 43	AFEBV	18 31 43	57 00 24	4.8	41			L	C	S	012 00	78	260	10	30	LWB	4670	
HD172044	SSZJJ	18 33 47	33 25 33	5.4	36			L	C	S	015 00	78	291	00	00	LWB	3013	
HD172044	SSZJJ	18 33 47	33 25 33	5.4	36			L	C	S	008 00	78	291	00	00	LWB	3637	
HD172044	SSZJJ	18 33 47	33 25 33	5.4	36			L	C	S	015 00	78	291	01	00	LWB	3014	
HD173524	MVDSL	18 41 40	55 27 27	5.1	27			L	C	S	025 00	78	099	20	08	LWB	1339	
HD173524	MVDSL	18 41 40	55 27 27	5.1	27			L	C	S	011 00	78	099	20	08	LWB	1294	
HD173524	MVDSL	18 41 40	55 27 27	5.1	27			L	C	S	024 00	78	099	22	07	LWB	1360	
HD173524	MVDSL	18 41 40	55 27 27	5.1	27			L	C	S	036 00	78	101	21	07	LWB	1353	
HD173524	CAZGH	18 41 40	-07 10 00	7.9	20			L	C	S	060 00	78	234	13	46	LWB	2188	
HD173524	CAZGH	18 41 40	-07 10 00	7.9	20			L	C	S	003 00	78	234	14	46	LWB	2365	
HD173524	CAZGH	18 41 40	-07 10 00	7.9	20			L	C	S	001 30	78	234	15	07	LWB	2365	
173219	ELJBB	18 41 49	-07 10 00	7.9	23			L	C	S	090 00	78	290	05	26	LWB	3004	
HD173787	CBRJP	18 41 49	-09 14	7.5	23			L	C	S	005 00	78	225	11	01	LWB	2063	
HD173787	CBRJP	18 41 49	-09 14	7.5	23			L	C	S	005 00	78	225	11	01	LWB	2063	
HD173787	CBRJP	18 41 49	-09 14	7.5	23			L	C	S	002 00	78	225	12	03	LWB	2281	
HD173787	CBRJP	18 41 49	-09 14	7.5	23			L	C	S	002 00	78	225	12	03	LWB	2281	
HD173787	CBRJP	18 41 49	-09 14	7.5	23			L	C	S	002 00	78	225	13	13	LWB	2064	
HD173787	CBRJP	18 41 49	-09 14	7.5	23			L	C	S	000 00	78	225	13	16	LWB	2282	
AM 18 41 49	MPZYK	18 20 46	-21 04 25	3.86	25			H	C	S	005 00	78	248	07	56	LWB	1694	
AM 18 41 49	MPZYK	18 20 46	-21 04 25	3.86	25			H	C	S	003 00	78	248	08	41	LWB	1598	
AM 18 41 49	MPZYK	18 20 46	-21 04 25	3.86	25			H	C	S	002 30	78	248	08	41	LWB	1855	
AM 18 41 49	MPZYK	18 20 46	-21 04 25	3.86	25			H	C	S	002 00	78	248	09	14	LWB	1599	
AM 18 41 49	MPZYK	18 20 46	-21 04 25	3.86	25			H	C	S	001 00	78	248	09				

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OBJ ID	PRG ID	TARGET RA		TARGET DEC		VIS MAG	OBJ CLASS	E (J-V) OR B-V	DISP H/L	LG - OBJ APERTURE O/C	CBJ L/S	EXPOSE TIME		EPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D							M	S	MIN	SEC	YR		
HR7123	MVDSL	18 53 17	-37 25	5.4	27	-0.16	H	C	C	0.08	15	78	294	23	07	SWP	3091	
HR7123		18 53 17	-37 25	5.4	27	-0.16	H	C	C	0.05	01	78	295	09	19	SWP	3097	P4520.7
HR7123		18 53 17	-37 25	5.4	27	-0.16	H	C	C	0.04	00	78	295	09	30	LWR	2676	P4520.7
HR7123		18 53 17	-37 25	5.4	27	-0.16	H	C	C	0.05	01	78	295	10	05	SWP	3098	P4520.7
HR7123		18 53 17	-37 25	5.4	27	-0.16	H	C	C	0.04	15	78	297	13	16	SWP	2726	P4520.28
HR7123		18 53 17	-37 25	5.4	27	-0.16	H	C	C	0.04	15	78	297	13	24	LWR	2700	P4520.29
270 8247	BSJLC	19 00 39	70 35 22	13.2	37		L	O	L	0.40	00	78	148	21	53	SWP	1660	GRW
270 8247		19 00 39	70 35 22	13.2	37		L	O	L	0.60	00	78	148	22	46	LWR	1575	GRW
CG6755	FSBG1	19 00 50	-30 39 16	7.4	35		L	O	S	0.10	00	78	205	07	55	LWR	1890	
CG6755		19 00 50	-30 39 16	7.4	35		L	O	S	0.20	00	78	205	08	55	LWR	1890	
NGC6752	XSAKD	19 06 24	-60 04	4.6	33		L	O	L	0.50	00	78	132	12	20	SWP	1525	
NGC6752		19 06 24	-60 04	4.6	33		L	O	L	0.45	00	78	133	09	35	SWP	1431	
NGC6752		19 06 24	-60 04	4.6	33		L	O	L	0.45	00	78	133	11	33	SWP	1532	
NGC6752		19 06 24	-60 04	4.6	33		L	O	L	0.30	00	78	133	12	34	LWR	1492	
NGC6752		19 06 24	-60 04	4.6	33		L	O	L	0.30	00	78	194	11	10	LWR	1490	
NGC6752		19 06 24	-60 04	4.6	33		L	O	L	0.30	00	78	198	11	19	LWR	1839	
NGC6752	XSBG	19 06 24	-60 04	6.93	33	20.00	L	O	L	0.60	00	78	199	12	35	SWP	2042	15WCNTR
NGC6752		19 06 24	-60 04	6.93	33	20.00	L	O	L	0.40	00	78	199	13	46	LWR	1848	15WCNTR
NGC6752		19 06 24	-60 04	6.93	33	20.00	L	O	L	0.60	00	78	199	14	34	SWP	2043	15WCNTR
HR 7264	AFEBV	19 06 47	-21 06 17	2.9	40	20.36	H	C	S	0.12	30	78	265	00	51	LWR	2428	
HR 7264		19 06 47	-21 06 17	2.9	40	20.36	H	C	S	0.01	00	78	265	01	11	SWP	3023	
HR 7264		19 06 47	-21 06 17	2.9	40	20.36	L	O	L	0.05	00	78	265	01	22	SWP	2723	
NGC6752	XSAKD	19 06 48	-50 09 01	13.5	33	20.05	L	O	L	1.00	00	78	194	06	27	SWP	1889	
NGC6752		19 06 57	-50 09 01	13.5	33	20.00	L	O	L	1.80	00	78	198	07	31	SWP	2032	
NGC6764	QOZAB	19 07 31	50 51 03	13.4	34		L	O	L	0.60	00	78	190	09	15	LWR	1802	
NGC6764		19 07 31	50 51 03	13.4	34		L	O	L	1.60	00	78	190	10	24	SWP	1948	
41-57	CHDMJ	19 09 16	16 46 29	11.2	11	E 1.4	L	O	L	0.50	00	78	219	05	14	LWR	2004	
41-57		19 09 16	16 46 29	11.2	11	E 1.4	L	O	L	0.10	00	78	219	10	23	LWR	2004	
TC 4846	FNZAB	19 13 00	-09 05	10	70		L	O	L	0.60	00	78	158	17	08	LWR	1634	
TC 4846		19 13 00	-09 05	10	70		L	O	L	0.20	00	78	158	17	37	SWP	1740	
TC 1297		19 14 00	-39 42	11.5	70		L	O	L	0.60	00	78	158	20	04	LWR	1635	
TC 1297		19 14 00	-39 42	11.5	70		L	O	L	0.25	00	78	158	21	02	SWP	1741	
HD181655	PSMG1	19 17 53	37 14 21	6.30	44	20.00	L	O	L	0.06	30	78	207	11	02	LWR	1897	
HD181655		19 17 53	37 14 21	6.30	44	20.00	L	O	L	0.03	30	78	207	11	19	LWR	1897	
UPS SGR	HFZYK	19 18 51	-16 03 01	4.61	27		H	C	S	0.16	00	78	153	07	15	SWP	1691	
UPS SGR		19 18 51	-16 03 01	4.61	27		H	C	S	0.10	00	78	153	11	16	LWR	1616	
HD181615		19 18 51	-16 03 01	4.61	36		H	C	S	0.10	00	78	248	06	23	LWR	2276	
HD181615		19 18 51	-16 03 01	4.61	36		H	C	S	0.16	00	78	248	07	03	SWP	2492	
HD181615	PG2SS	19 18 51	-16 03 01	4.60	36	20000	H	O	L	0.07	30	78	134	19	46	LWR	1494	

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OBJ ID	PRG ID	TARGET RA		TARGET DEC		VIS MAG	OBJ CLASS	E (J-V) OR B-V	DISP H/L	LG - OBJ APERTURE O/C	CBJ L/S	EXPOSE TIME		EPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D							M	S	MIN	SEC	YR		
HD181615	PG2SS	19 18 51	-16 03 01	4.60	36	20000	H	O	L	0.10	00	78	134	20	44	SWP	1544	
HD181615		19 18 51	-16 03 01	4.60	36	20000	L	O	L	0.06	00	78	134	21	53	LWR	1495	
HD181615		19 18 51	-16 03 01	4.60	36	20000	H	O	L	0.00	12	78	135	23	53	SWP	1554	
HD181615		19 18 51	-16 03 01	4.60	36	20000	H	O	L	0.10	00	78	136	18	45	LWR	1505	
UPS SGR	HFZYK	19 19 52	-16 02	4.61	27		H	C	S	0.17	00	78	153	08	23	LWR	1595	
HD181615	PG2SS	19 18 52	-16 03 02	4.3	36	20.00	H	O	L	0.07	45	78	218	09	29	LWR	1994	
HD181615		19 18 52	-16 03 02	4.3	36	20.00	H	O	L	0.15	00	78	218	09	29	SWP	2219	
HD182308	SSZJJ	19 19 23	64 17 46	6.3	27	-0.04	H	C	S	0.25	00	78	294	01	54	LWR	2660	
HD182308		19 19 23	64 17 46	6.3	27	-0.04	H	C	S	0.40	00	78	294	02	25	SWP	3081	
NGC 6790	FNZAB	19 20 42	01 25	9.4	70		L	O	L	0.05	00	78	154	20	35	SWP	1708	
NGC 6790		19 20 42	01 25	9.4	70		L	O	L	0.05	00	78	154	20	46	SWP	1708	
NGC 6790		19 20 42	01 25	9.4	70		L	O	L	0.05	00	78	154	21	15	LWR	1610	
NGC 6790		19 20 42	01 25	9.4	70		L	O	L	0.05	00	78	154	21	26	LWR	1610	
HD181639	PPZED	19 32 47	30 24 20	6.6	70		L	O	L	0.12	00	78	182	14	38	LWR	1759	
HD181639		19 32 47	30 24 20	6.6	70		L	O	L	0.12	00	78	182	14	17	SWP	1845	
HD181639		19 32 47	30 24 20	6.6	70		L	O	L	0.04	00	78	182	16	13	LWR	1760	
HD181639		19 32 47	30 24 20	6.6	70		L	O	L	0.04	00	78	182	15	35	SWP	1896	
HD181639	FNZAB	19 39 41	16 37 33	12	70		L	O	L	0.30	00	78	157	04	26	LWR	1626	
HD181639		19 39 41	16 37 33	12	70		L	O	L	0.60	00	78	157	10	22	SWP	1770	
HD181639		19 39 41	16 37 33	12	70		L	O	L	0.05	00	78	157	11	55	LWR	1627	
HD181639		19 39 41	16 37 33	11.5	70		L	O	L	0.05	00	78	244	12	19	LWR	2231	
HD181639		19 39 41	16 37 33	12	70		L	O	L	0.30	00	78	246	01	31	LWR	2251	
HD181639		19 39 41	16 37 33	12	70		L	O	L	0.60	00	78	246	02	10	SWP	2457	
16 CYG B	PSICC	19 40 50	24	6.20	44		L	O	L	1.80	00	78	263	00	52	SWP	2700	
16 CYG B	PSBGT	19 40 50	24 30	5.96	44	20.00	L	O	L	0.04	42	78	206	04	44	LWR	1888	
16 CYG B		19 40 50	24 30	5.96	44	20.00	L	O	L	0.02	30	78	206	04	57	LWR	1888	
16 CYG B		19 40 50	24 30	5.96	44	20.00	L	O	L	0.21	30	78	206	05	34	LWR	1889	
16 CYG B	PHCAL	19 40 50	24 02	6.20	44		L	O	L	0.15	00	78	176	15	15	LWR	1778	
16 CYG B		19 40 50	24 02	6.20	44		L	O	L	0.								

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CBI ID	PRCG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E(B-V) OR B-V	DISP H/L	LG - APERTURE O/C	OBJ L/S	EXPOSE TIME MIN SEC	EPOSURE START TIME			IMAGE SEQ MON	OBSERVERS COMMENTS
		H	M	S	D	M	S								YR	DAY	HR		
HD187399	CH2GH	19 46 42	29 17 00	6.9	25	50.28	H	C	S	045 00	78 234 11 45	LWR	2148						
HD187399	CH2GH	19 46 42	29 17 00	6.9	25	50.28	L	C	S	000 50	78 234 12 41	SWP	2364						
187399	CH2QH	19 46 42	29 17 00	6.9	25	50.28	H	C	S	045 00	78 285 23 44	LWR	2987						
187399	CH2QH	19 46 42	29 17 00	6.9	25	50.28	L	C	S	080 00	78 285 23 42	SWP	2987						
187399	FLJJBH	19 46 42	29 17 00	6.9	25	2 0.3	H	C	S	060 00	78 287 22 55	SWP	2980						
ACF AC	AFEBV	19 48 20	09 44 05	0.9	31	50.22	H	C	S	000 45	78 267 01 09	LWR	2449						
ACF AC	AFEBV	19 48 20	09 44 05	0.9	31	50.22	L	C	S	005 30	78 267 01 16	SWP	2743						
CMI ACL	HGLKD	19 48 39	10 17	5.12	41	.55	H	C	S	045 00	78 306 05 27	LWR	2801						
HD188001	OSESC	19 50 07	18 32	6.21	15	50.31	H	C	S	010 01	78 142 16 52	SWP	1601						
HD188001	OSESC	19 50 07	18 32	6.21	15	50.31	L	C	S	012 30	78 142 16 52	LWR	1541						
HD188001	OSESC	19 50 07	18 32	6.21	15	50.31	H	C	S	000 06	78 142 18 19	SWP	1602						
HD188001	OSESC	19 50 07	18 32	6.21	15	50.31	L	C	S	000 06	78 142 18 19	SWP	1602						
HD189001	EODLE	19 50 08	18 33	6.25	15	50.31	L	C	S	000 06	78 168 20 49	LWR	1682						
HD189001	EODLE	19 50 08	18 33	6.25	15	50.31	H	C	S	000 12	78 168 20 55	LWR	1682						
HD189001	EODLE	19 50 08	18 33	6.25	15	50.31	L	C	S	000 07	78 168 21 46	LWR	1683						
HD189001	EODLE	19 50 08	18 33	6.25	15	50.31	H	C	S	000 04	78 168 21 50	LWR	1683						
188001	FLJJBH	19 50 08	19 32	6.2	13	2 0.3	H	C	S	010 00	78 286 03 46	SWP	2950						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	045 00	78 290 22 19	SWP	3012						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	009 00	78 290 23 12	LWR	2636						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	009 30	78 293 22 34	LWR	2658						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	013 00	78 293 22 48	LWR	2658						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	045 00	78 293 23 15	SWP	3079						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	009 30	78 294 02 05	LWR	2686						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	013 00	78 294 02 21	LWR	2689						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	045 00	78 296 02 42	SWP	3107						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	010 00	78 122 09 10	SWP	1960						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	010 00	78 122 10 16	LWR	1428						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	010 01	78 122 10 42	LWR	1428						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	045 00	78 124 09 50	SWP	1478						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	010 01	78 124 09 50	LWR	1430						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	010 01	78 124 10 21	LWR	1439						
HD226868	SS2JJ	19 56 23	35 03 54	8.9	23	E1.11	L	C	S	045 00	78 130 09 24	SWP	1515						
HD226868	IBPVB	19 56 28	35 03 55	8.89	23	E1.12	L	C	S	050 00	78 120 16 55	SWP	1445						
HD226868	IBPVB	19 56 28	35 03 55	8.89	23	E1.12	L	C	S	015 00	78 121 08 37	LWR	1425						
HD226868	IBPVB	19 56 28	35 03 55	8.89	23	E1.12	L	C	S	050 00	78 121 09 33	SWP	1451						
HD226868	IBPVB	19 56 28	35 03 55	8.89	23	E1.12	L	C	S	050 00	78 127 13 36	SWP	1500						
HD226868	IBPVB	19 56 28	35 03 55	8.89	23	E1.12	L	C	S	010 01	78 127 14 18	LWR	1451						
HD226868	IBPVB	19 56 28	35 03 55	8.89	20	E1.12	L	C	S	050 00	78 200 08 08	SWP	2049						
HD226868	XSARD	19 56 28	35 03 55	8.89	23	E1.15	L	C	S	045 00	78 193 05 49	SWP	1979						

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CBI ID	PRCG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E(B-V) OR B-V	DISP H/L	LG - APERTURE O/C	OBJ L/S	EXPOSE TIME MIN SEC	EPOSURE START TIME			IMAGE SEQ MON	OBSERVERS COMMENTS
		H	M	S	D	M	S								YR	DAY	HR		
HD226868	XSARD	19 56 28	35 03 58	8.89	23	E1.15	L	C	S	009 00	78 193 07 04	LWR	1819						
3 JOND	ESNGT	19 58 25	-05 04 23	5.3	05		L	C	S	060 00	78 207 08 36	LWR	1896						
15 VIL	AFEBV	19 59 02	27 16 11	4.7	35	50.18	L	C	S	002 00	78 263 08 37	SWP	2704						
15 VIL	AFEBV	19 59 02	27 16 11	4.7	35	50.18	H	C	S	020 00	78 263 09 30	LWR	2415						
RR TEL	HSSRH	20 00 18	-55 52	4.6	55		L	C	S	016 00	78 097 00 56	SWP	1326						
RR TEL	HSSRH	20 00 18	-55 52	4.6	55		L	C	S	004 00	78 097 00 39	SWP	1326						
HD190603	BLJJBH	20 02 33	32 04	5.6	23	50.7	L	C	S	001 00	78 208 12 06	SWP	2121						
HD190603	BLJJBH	20 02 33	32 04	5.6	23	50.7	L	C	S	001 00	78 208 12 15	SWP	2121						
HD190603	BLJJBH	20 02 33	32 04	5.6	23	50.7	L	C	S	020 00	78 208 12 26	LWR	1905						
HD190603	BLJJBH	20 02 33	32 04	5.6	23	50.7	H	C	S	110 00	78 288 04 37	SWP	2984						
HD190603	SGABU	20 02 38	32 04	5.6	23	50.82	L	C	S	160 00	78 172 06 55	SWP	1822						
HD190603	SGABU	20 02 38	32 04	5.6	23	50.82	L	C	S	040 00	78 172 09 44	LWR	1704						
HD190603	SGABU	20 02 38	32 04	5.6	23	50.82	L	C	S	240 00	78 172 09 54	SWP	1896						
HD190603	SGABU	20 02 38	32 04	5.6	23	50.82	H	C	S	045 00	78 175 13 30	LWR	1722						
HD190918	NPZYK	20 04 05	35 40	5.8	11	50.4	H	C	S	014 00	78 254 04 21	SWP	2623						
HD190918	NPZYK	20 04 05	35 40	5.8	11	50.4	L	C	S	014 00	78 254 05 12	SWP	2623						
HD190918	NPZYK	20 04 05	35 40	5.8	11	50.4	H	C	S	015 00	78 254 04 51	LWR	2317						
HD191765	OSESC	20 08 21	36 02	8.24	11	0.54	L	C	S	090 00	78 276 05 28	LWR	2530						
HD191765	OSESC	20 08 21	36 02	8.24	11	0.54	L	C	S	001 00	78 276 07 40	SWP	2844						
HD191765	OSESC	20 08 21	36 02	8.24	11	0.54	L	C	S	001 00	78 276 07 47	SWP	2344						
HD191765	OSESC	20 08 21	36 02	8.24	11	0.27	L	C	S	080 00	78 280 05 42	SWP	2873						
HGC 6884	FP2ED	20 08 50	46 18 44	10.5	70		L	C	S	030 00	78 187 12 38	SWP	1922						
HGC 6884	FP2ED	20 08 50	46 18 44	10.5	70		L	C	S	040 00	78 187 11 29	LWR	1784						
WG 588	FN2AB	20 09 41	20 11	10	70		L	C	S	015 00	78 157 16 31	SWP	1733						
WG 588	FN2AB	20 09 41	20 11	10	70		L	C	S	040 00	78 157 17 29	LWR	1629						
HD192163	OSESC	20 10 00	36 03	8.44	10	0.23	L	C	S	001 00	78 276 01 24	SWP	2843						
HD192163	OSESC	20 10 00	36 03	8.44	10	0.23	L	C	S	001 00	78 276 01 37	SWP	2843						
HD192163	OSESC	20 10 00	36 03	8.44	10	0.23	L	C	S	090 00	78 276 01 46	LWR	2526						
HD192163	OSESC	20 10 00	36 03	8.44	10	0.23	L	C	S	100 00	78 276 03 13	SWP	2843						
HD192163	OSESC	20 10 13	32 12	7.50	11	50.54	L	C	S	000 30	78 275 22 38	SWP	2840						
HD192163	OSESC	20 10 13	32 12	7.50	11	50.54	L	C	S	000 30	78 275 22 48	SWP	2840						
HD192163	OSESC	20 10 18	32 12	7.50	11	50.54	L	C	S	040 00	78 275 22 56	SWP	2528						
HD192163	OSESC	20 10 18	32 12	7.50	11	50.54	H	C	S	050 00	78 275 23 43	LWR	2041						
31 CYG	NPZYK	20 12 08	46 35	3.73	46		H	C	S	006 00	78 248 01 37	LWR	2274						
31 CYG	NPZYK	20 12 08	46 35	3.73	46		L	C	S	015 00	78 248 01 50	SWP	2490						
31 CYG	NPZYK	20 12 08	46 35	3.73	46		H	C	S	010 00	78 234 03 17	LWR	2116						

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OBJ ID	PRG IC	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E(B-V) OR 3-V	DISP H/L	LG APERTURE O/C	OBJ L/S	EXPOSE TIME MIN SEC	EXPOSURE			IMAGE SEQ NUM	OBSERVERS COMMENTS		
		H	M	S	D	M	S								YR	START DAY	TIME HR			MIN	
P CVG	LSDKW	20	15	56	37	52	35	4.7	27	E 0.42	H	C	S	012 00	78	274	03	50	LWR	2513	
HD 193337	HLJBB	20	15	56	37	52	35	4.8	23	E 0.6	H	C	S	012 00	78	210	11	58	SWP	2142	
HD 193337	HLJBB	20	15	56	37	52	35	4.8	23	E 0.6	H	C	S	030 00	78	236	08	10	SWP	2590	
HD 193337	HLJBB	20	15	56	37	52	35	4.8	23	E 0.6	H	C	S	030 00	78	236	08	10	SWP	2952	
P CVG	LSDKW	20	15	57	37	53	35	4.9	20	E 0.42	H	C	S	016 00	78	249	01	06	LWR	2285	
HD 193337	HLJBB	20	15	57	37	53	35	4.3	26	E 0.42	H	C	S	048 00	78	249	03	30	SWP	3502	
HD 193337	HLJBB	20	15	57	37	53	35	4.3	26	E 0.42	H	C	S	040 00	78	274	04	14	SWP	2819	
HD 228854	PG255	20	16	53	36	11	00	9.40	12	E 0.44	L	C	S	015 00	78	136	16	56	SWP	1560	
HD 228854	PG255	20	16	53	36	11	00	8.40	12	E 0.44	L	C	S	011 00	78	136	17	52	SWP	1560	
HD 228854	PG255	20	16	53	36	11	00	8.4	12	E 0.44	L	C	S	016 00	78	218	03	55	SWP	2217	
HD 228854	PG255	20	16	53	36	11	00	8.4	12	E 0.44	L	C	S	045 00	78	218	04	19	SWP	2217	
HD 228854	PG255	20	16	53	36	11	00	10.5	12	E 0.40	L	C	S	020 00	78	220	03	40	SWP	2234	
V 4997	PG255	20	17	53	20	55	23	10.5	12	E 0.40	L	C	S	019 00	78	220	04	11	SWP	2234	
V 4997	PG255	20	17	53	20	55	23	10.5	12	E 0.40	L	C	S	026 00	78	220	04	40	LWR	2012	
V 4997	PG255	20	17	53	20	55	23	10.5	12	E 0.40	L	C	S	022 00	78	220	05	14	LWR	2012	
V 4997	PG255	20	17	53	20	55	23	10.5	12	E 0.40	L	C	S	013 00	78	223	11	30	LWR	2046	
V 4997	PG255	20	17	53	20	55	23	10.5	12	E 0.40	L	C	S	020 00	78	224	11	01	SWP	2274	
V 4997	PG255	20	17	53	20	55	23	10.5	12	E 0.40	L	C	S	017 00	78	224	11	30	SWP	2274	
V 4997	PG255	20	17	53	20	55	23	10.5	12	E 0.40	L	C	S	029 00	78	224	11	56	LWR	2057	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	014 00	78	189	09	45	SWP	1941	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	011 00	78	189	10	09	LWR	1797	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	022 00	78	189	10	52	SWP	1942	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	010 01	78	189	11	47	LWR	1798	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	035 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	014 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	011 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	022 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	010 01	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	035 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	014 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	011 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	022 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	010 01	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	035 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	014 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	011 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	022 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	010 01	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	035 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	014 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	011 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	022 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	010 01	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	035 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	014 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	011 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	022 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	010 01	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	035 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	014 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	011 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	022 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	010 01	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	035 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	014 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	011 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	022 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	010 01	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	035 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	014 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	011 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	022 00	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	010 01	78	189	12	33	SWP	1943	
VU CAP	DGSL	20	17	53	-12	55	00	4.4	22	E 0.00	H	C	S	035							

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OBJ ID	PRG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E(B-V) OR B-V	DISP H/L	LG - OBJ APERTURE O/C	OBJ L/S	EXPOSE TIME MIN SEC	EPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S								YR	DAY	HR		
NGC 7025	FN2AB	21 04 35	47 39 03	8.7	70									040 00	78 159 14 37	SWP	1739		
NGC 7027	PF2ED	21 05 09	42 02 03	8.6	70									012 00	78 185 13 26	SWP	1913		
NGC 7027	FN2AB	21 05 10	48 02 02	8.9	70									025 00	78 159 18 18	LWR	1639		
NGC 7027	FN2AB	21 05 10	48 02 02	8.9	70									010 00	78 159 18 57	SWP	1747		
NGC 7027	PF2ED	21 05 09	42 02 03	8.6	70									025 00	78 185 14 18	SWP	1914		
NGC 7027	PF2ED	21 05 09	42 02 03	8.6	70									010 00	78 185 14 26	LWR	2785		
NGC 7027	PF2ED	21 05 09	42 02 03	8.6	70									012 00	78 185 04 57	LWR	3202		
NGC 7027	FN2AB	21 05 10	48 02 02	8.9	70									025 00	78 159 18 18	LWR	1639		
NGC 7027	FN2AB	21 05 10	48 02 02	8.9	70									010 00	78 159 18 57	SWP	1747		
NGC 203064	ICJHB	21 16 35	43 44 05	4.9	12	EO.11	H	C	S					003 30	78 116 21 01	SWP	1423		
NGC 204038	PG4SS	21 22 54	33 29 09	8.5	40	EO.07	L	C	S					023 00	78 223 12 27	LWR	2047		
NGC 204038	PG4SS	21 22 54	33 29 09	8.6	40	EO.07	L	C	S					019 00	78 223 13 12	LWR	2047		
NGC 204038	PG4SS	21 22 54	33 29 09	8.4	40	EO.07	L	C	S					014 00	78 224 13 12	LWR	2058		
NGC 2126158	CG2AB	21 26 26	-15 51 51	17.3	85		L	C	S					446 00	78 280 17 07	LWR	2550		
NGC 2126158	CG2AB	21 26 26	-15 51 51	17.3	85		L	C	S					272 00	78 281 00 35	LWR	2550		
NGC 2126158	CG2AB	21 26 26	-15 51 51	17.6	95		L	C	S					799 00	78 281 03 22	SWP	2882		
NGC 2126158	CG2AB	21 26 26	-15 51 51	17.6	95		L	C	S					852 00	78 282 16 21	LWR	2566		
NGC 7079	BSJLG	21 26 43	73 25 42	12.9	37		L	C	S					040 00	78 149 23 20	LWR	1579		
NGC 7079	BSJLG	21 26 43	73 25 42	12.9	37		L	C	S					030 00	78 149 23 21	SWP	1667		
NGC 7079	XSARD	21 27 11	57 57	6.2	83	EO.05	L	C	S					060 00	78 193 08 17	LWR	1820		
NGC 7079	XSARD	21 27 11	57 57	6.2	83	EO.05	L	C	S					090 00	78 193 09 30	SWP	1980		
NGC 7079	XSARD	21 27 11	57 57	6.2	83	EO.05	L	C	S					070 00	78 193 11 14	LWR	1821	15" OFFST	
NGC 7079	XSARD	21 27 11	57 57	6.2	83	EO.05	L	C	S					210 00	78 124 12 03	SWP	1479		
NGC 7079	XSARD	21 27 11	57 57	6.2	83	EO.07	L	C	S					100 00	78 128 09 19	LWR	1457		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 07 38	SWP	2927		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 08 14	SWP	2928		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 08 49	SWP	2929		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 09 18	SWP	2930		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 09 45	SWP	2931		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 10 40	SWP	2932		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 11 08	SWP	2933		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 11 36	SWP	2934		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 12 04	SWP	2935		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 12 31	SWP	2936		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 13 00	SWP	2937		
NGC 7079	HRDAK	21 28 01	70 20 20	3.1	20		H	C	S					000 20	78 285 13 00	SWP	2938		

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OBJ ID	PRG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E(B-V) OR B-V	DISP H/L	LG - OBJ APERTURE O/C	OBJ L/S	EXPOSE TIME MIN SEC	EPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS
		H	M	S	D	M	S								YR	DAY	HR		
NGC 116	AFRBV	21 28 55	-05 47 31	3.1	44	EO.83	H	C	S					030 00	78 116 15 00	LWR	1391		
NGC 116	AFRBV	21 28 55	-05 47 31	3.1	44	EO.83	L	C	S					030 00	78 116 16 19	SWP	1422		
NGC 116	AFRBV	21 28 55	-05 47 31	3.1	44	EO.83	L	C	S					030 00	78 144 11 20	SWP	1622		
NGC 116	AFRBV	21 28 55	-05 47 31	3.1	44	EO.83	L	C	S					010 00	78 144 11 58	SWP	1622		
NGC 136	Q02AB	21 30 01	09 55 10	14.5	84		L	C	S					150 00	78 188 11 36	SWP	1909		
NGC 136	Q02AB	21 30 01	09 55 10	14.5	84		L	C	S					120 00	78 184 14 24	LWR	1774		
NGC 136	Q02AB	21 30 01	09 55 10	14.5	84		L	C	S					035 00	78 184 16 31	LWR	1910		
NGC 155	HSSRH	21 33 24	31 28	13.4	70	EO.15	L	C	S					017 00	78 096 12 24	SWP	1322		
NGC 165	SGABU	21 36 34	61 21 21	4.7	23	EO.46	H	C	S					035 00	78 170 19 29	SWP	1815		
NGC 165	SGABU	21 36 34	61 21 21	4.7	23	EO.46	H	C	S					005 00	78 170 19 30	SWP	1816		
NGC 165	SGABU	21 36 34	61 21 21	4.7	23	EO.46	H	C	S					010 05	78 172 19 20	LWR	1767		
NGC 179	XSARD	21 40 36	63 01 57	9	54	EO.00	H	C	S					030 00	78 131 18 42	LWR	1475		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					010 00	78 256 09 56	LWR	2342		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					002 00	78 256 10 14	LWR	2343		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					005 00	78 256 10 32	SWP	2641		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					060 00	78 256 11 21	LWR	2343		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					001 30	78 260 00 47	LWR	2381		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					001 30	78 260 00 55	LWR	2381		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					015 00	78 260 00 44	SWP	2666		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					015 00	78 260 00 44	SWP	2666		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					020 00	78 261 09 29	SWP	2679		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					045 00	78 261 09 29	SWP	2392		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					001 00	78 261 11 38	LWR	2393		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					001 30	78 261 11 31	LWR	2393		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					005 00	78 263 05 17	SWP	2702		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					001 30	78 263 05 07	LWR	2412		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					001 10	78 263 05 13	LWR	2412		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					005 00	78 263 05 09	SWP	2641		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					000 45	78 263 09 28	LWR	2414		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					005 00	78 263 07 38	SWP	2703		
NGC 179	OD6AB	21 40 38	43 49 09	6.8	55		L	C	S					001 30	78 265 05 43	LWR	2432		
NGC 179	OD6AB	21 40 38	43 49 09																

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OBJ ID	PRCG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	Z(B-V) OR B-V	DISP H/L	LG - OBJ APER/URE O/C	EXPOSE TIME MIN SEC	EXPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS			
		H	M	S	D	M	S							YR	DAY	HR			MIN		
NOVA	CYG	OD6AL	21	40	38	43	43	10	7.9		L	C	S	005	01	78	268	01	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	020	00	78	268	02	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	040	00	78	268	03	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	060	00	78	268	04	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	080	00	78	268	05	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	100	00	78	268	06	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	120	00	78	268	07	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	140	00	78	268	08	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	160	00	78	268	09	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	180	00	78	268	10	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	200	00	78	268	11	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	220	00	78	268	12	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	240	00	78	268	13	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	260	00	78	268	14	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	280	00	78	268	15	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	300	00	78	268	16	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	320	00	78	268	17	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	340	00	78	268	18	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	360	00	78	268	19	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	380	00	78	268	20	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	400	00	78	268	21	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	420	00	78	268	22	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	440	00	78	268	23	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	460	00	78	268	24	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	480	00	78	268	25	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	500	00	78	268	26	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	520	00	78	268	27	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	540	00	78	268	28	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	560	00	78	268	29	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	580	00	78	268	30	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	600	00	78	268	31	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	620	00	78	268	32	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	640	00	78	268	33	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	660	00	78	268	34	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	680	00	78	268	35	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	700	00	78	268	36	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	720	00	78	268	37	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	740	00	78	268	38	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	760	00	78	268	39	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	780	00	78	268	40	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	800	00	78	268	41	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	820	00	78	268	42	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	840	00	78	268	43	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	860	00	78	268	44	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	880	00	78	268	45	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	900	00	78	268	46	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	920	00	78	268	47	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	940	00	78	268	48	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	960	00	78	268	49	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	980	00	78	268	50	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1000	00	78	268	51	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1020	00	78	268	52	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1040	00	78	268	53	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1060	00	78	268	54	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1080	00	78	268	55	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1100	00	78	268	56	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1120	00	78	268	57	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1140	00	78	268	58	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1160	00	78	268	59	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1180	00	78	268	60	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1200	00	78	268	61	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1220	00	78	268	62	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1240	00	78	268	63	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1260	00	78	268	64	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1280	00	78	268	65	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1300	00	78	268	66	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1320	00	78	268	67	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1340	00	78	268	68	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1360	00	78	268	69	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1380	00	78	268	70	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1400	00	78	268	71	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1420	00	78	268	72	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1440	00	78	268	73	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1460	00	78	268	74	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1480	00	78	268	75	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1500	00	78	268	76	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1520	00	78	268	77	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1540	00	78	268	78	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1560	00	78	268	79	22	2752	
NOVA	CYG		21	40	38	43	43	10	7.9		L	C	S	1580	00	78	268	80	22	2752	
NOVA	CYG		21	40	38	43	43														

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OBJ ID	PRCG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	B(B-V) OR H-V	DISP H/L	LG - OBJ APERTURE O/C	OBJ L/S	EXPOSE TIME		EPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS	
		D	M	S	D	M	S							MIN	SEC	YR	DAY	HR			MIN
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	36	78	300	07	18	LWR	1492
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	00	78	300	07	18	LWR	1492
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	000	17	78	300	08	15	SXP	1492
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	000	30	78	124	16	57	SXP	1490
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	000	30	78	124	17	07	SXP	1480
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	20	78	124	17	43	LWR	1440
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	20	78	124	17	52	LWR	1440
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	000	00	78	096	18	32	SXP	1324
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	000	45	78	096	21	13	SXP	1325
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	004	00	78	113	19	34	SXP	1405
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	020	00	78	113	19	56	SXP	1405
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	030	00	78	113	20	46	LWR	1374
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	30	78	127	16	44	LWR	1452
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	00	78	127	16	55	LWR	1452
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	015	00	78	127	17	30	LWR	1501
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	015	00	78	127	18	02	LWR	1453
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	010	00	78	127	19	31	SXP	1502
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	030	00	78	140	12	56	SXP	1524
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	030	00	78	140	13	31	SXP	1524
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	010	00	78	140	14	31	SXP	1524
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	030	00	78	140	15	13	SXP	1525
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	180	00	78	156	11	27	SXP	1725
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	007	00	78	166	08	37	SXP	1725
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	011	00	78	166	08	37	SXP	1725
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	011	00	78	166	09	11	LWR	1787
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	030	00	78	166	09	11	LWR	1673
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	015	00	78	166	10	11	LWR	1673
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	015	00	78	166	08	37	SXP	1725
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	010	00	78	191	11	29	LWR	1957
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	045	00	78	191	11	29	LWR	1807
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	00	78	191	11	29	LWR	1808
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	00	78	191	11	38	LWR	1808
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	080	00	78	218	10	18	SXP	2140
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	015	00	78	232	17	12	SXP	2342
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	00	78	271	10	15	LWR	2484
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	00	78	271	10	22	LWR	2484
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	010	00	78	271	10	29	SXP	2796
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	007	00	78	271	11	03	SXP	2796
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	030	00	78	271	11	17	LWR	2488
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	025	00	79	271	13	07	LWR	2489
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	060	00	78	096	14	55	SXP	1323
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	000	00	78	147	19	31	SXP	1651
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	000	40	78	147	19	45	SXP	1651
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	060	00	78	139	14	15	SXP	1577

TRAILED
BD284211
SKY

ORDERED BY RIGHT ASCENSION
SORTED BY PROGRAM ID

OBJ ID	PRCG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	B(B-V) OR H-V	DISP H/L	LG - OBJ APERTURE O/C	OBJ L/S	EXPOSE TIME		EPOSURE START TIME			IMAGE SEQ NUM	OBSERVERS COMMENTS	
		D	M	S	D	M	S							MIN	SEC	YR	DAY	HR			MIN
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	36	78	300	07	18	LWR	2770
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	00	78	300	07	18	LWR	2770
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	000	17	78	300	08	15	SXP	3168
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	000	30	78	124	16	57	SXP	1490
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	000	30	78	124	17	07	SXP	1480
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	20	78	124	17	43	LWR	1440
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	20	78	124	17	52	LWR	1440
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	090	00	78	096	18	32	SXP	1324
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	000	45	78	096	21	13	SXP	1325
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	004	00	78	113	19	34	SXP	1405
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	020	00	78	113	19	56	SXP	1405
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	030	00	78	113	20	46	LWR	1374
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	30	78	127	16	44	LWR	1452
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	001	00	78	127	16	55	LWR	1452
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	015	00	78	127	17	30	LWR	1501
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	015	00	78	127	18	02	LWR	1453
BD294	PHCAL	21	44	56	28	37	34	10.53	16	0.00	L	C	S	010	00	78					

ORDERED BY RIGHT ASCENSION
SORTED BY PROGRAM ID

OBJ ID	PRCG IC	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E (3-V) OR 9-V	DISP H/L	LG - OBJ APERTURE O/C	EXPOSE TIME MIN SEC	EPOSURE START TIME				IMAGE SEQ NUM	OBSERVERS COMMENTS				
		H	M	S	D	M	S							YR	DAY	HR	MIN						
EPS IND	CCAKD	21	59	33	-56	59		4.67	46		H	0	L	015	00	78	139	15	24	LWR	1518		
ALP ACR	AFEBV	22	03	12	-00	33	48	2.9	44	E0.98	L	C	S	040	00	78	116	12	12	LWR	1390		
ALP ACR	AFEBV	22	03	12	-00	33	48	2.9	44	E0.98	L	C	S	002	00	78	116	13	36	LWR	1421		
ALP ACR	AFEBV	22	03	12	-00	33	48	2.9	44	E0.98	L	C	S	010	00	78	116	13	44	LWR	1421		
ALP ACR	AFEBV	22	03	12	-00	33	48	2.9	44	E0.98	L	C	S	010	00	78	144	14	03	LWR	1623		
ALP ACR	AFEBV	22	03	12	-00	33	48	2.9	44	E0.98	L	C	S	030	00	78	144	14	26	LWR	1623		
ALP ACR	AFEBV	22	03	12	-00	33	48	2.9	44	E0.98	L	C	S	040	00	78	144	14	22	LWR	1554		
HD209875	ICJHB	22	03	36	62	02	10	5.10	12	E0.39	H	H	C	S	008	00	78	116	23	41	LWR	1624	
HD209875	ICJHB	22	03	36	62	02	10	5.10	12	E0.39	H	H	C	S	008	00	78	116	23	41	LWR	1394	
Q2208408	COZAB	22	04	33	-40	51	36	17.5	85		L	0	L	859	00	78	276	16	52	LWR	2849		
Q2208408	COZAB	22	04	33	-40	51	36	17.5	85		L	0	L	861	00	78	276	16	00	LWR	2539		
BY DEC	AFEBV	22	07	45	32	55	56	4.3	41	E0.45	L	0	L	020	00	78	116	18	10	LWR	1392		
BY DEC	AFEBV	22	07	45	32	55	56	4.3	41	E0.45	L	0	L	008	00	78	265	09	20	LWR	2728		
BY DEC	AFEBV	22	07	45	32	55	56	4.3	41	E0.45	L	0	L	040	00	78	265			LWR	2728		
HD210839	HLJBH	22	09	48	59	10		5.0	13	E0.6	H	C	S	015	00	78	208	16	34	LWR	2125		
HD210839	HLJBH	22	09	48	59	10		5.0	13	E0.6	H	C	S	008	00	78	208	16	59	LWR	1906		
HD210839	OSFSC	22	09	48	59	10		5.25	15	0.25	H	C	S	009	00	78	280	08	08	LWR	2874		
HD210839	OSFSC	22	09	48	59	10		5.25	15	0.25	H	C	S	011	00	78	280	08	23	LWR	2849		
HD210839	OSFSC	22	09	48	59	10		5.25	15	0.25	H	C	S	000	07	78	280	08	55	LWR	2875		
IC 5217	PPZED	22	21	55	50	42	52	10.5	70		L	0	L	040	00	78	187	14	04	LWR	1785		
IC 5217	PPZED	22	21	55	50	42	52	10.5	70		L	0	L	030	00	78	187	14	52	LWR	1923		
HD212571	ICJHB	22	22	43	01	07	22	4.68	27	E0.20	H	C	S	002	00	78	270	10	49	LWR	2784		
HD212571	ICJHB	22	22	43	01	07	22	4.68	27	E0.20	H	C	S	001	30	78	270	10	59	LWR	2777		
3 METIS	PSBGT	22	22	59	-19	14	38	3.4	08		L	0	L	050	00	78	207	05	16	LWR	1895		
HD213097	ICJHB	22	25	28	64	52	37	5.46	23	E0.62	H	H	C	S	040	00	78	266	09	32	LWR	2735	
HD213097	ICJHB	22	25	28	64	52	37	5.46	23	E0.62	H	H	C	S	012	00	78	266	09	18	LWR	2441	
HD213097	ICJHB	22	25	28	64	52	37	5.46	23	E0.62	H	H	C	S	070	00	78	266	05	50	LWR	2736	
HD213097	ICJHB	22	25	28	64	52	37	5.46	23	E0.62	H	H	C	S	072	00	78	266	07	07	LWR	2442	
HD214080	ALEBJ	22	33	25	-16	39		6.90	23	E0.05	H	C	S	013	00	78	164	19	23	LWR	1663		
HD214080	ALEBJ	22	33	25	-16	39		6.90	23	E0.05	H	C	S	013	00	78	164	19	43	LWR	1780		
HD214680	PHCAL	22	37	01	38	47	22	4.91	12	E0.11	L	0	L	000	02	78	162	15	53	LWR	1764	TRAILED	
HD214680	PHCAL	22	37	01	38	47	22	4.88	12	E0.11	L	0	L	000	03	78	162	16	41	LWR	1655	TRAILED	
HD214680	PHCAL	22	37	01	38	47	22	4.88	12	E0.11	L	0	L	000	55	78	162	17	30	LWR	1765	TRAILED	
HD214680	PHCAL	22	37	01	38	47	22	4.88	12	E0.11	L	0	L	001	00	78	162	18	22	LWR	1656	TRAILED	
HD214680	XBFVB	22	37	01	38	47	22	4.88	12	E0.11	H	C	S	001	40	78	200	10	58	LWR	2051		
HD214680	XBFVB	22	37	01	38	47	22	4.88	12	E0.11	H	C	S	001	30	78	200	11	36	LWR	1852		
4216385	NGIRD	22	49	52	09	34		5.16	41	E-.03	H	C	S	030	00	78	213	04	16	LWR	1934		

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OBJ ID	PRCG IC	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	E (3-V) OR 9-V	DISP H/L	LG - OBJ APERTURE O/C	EXPOSE TIME MIN SEC	EPOSURE START TIME				IMAGE SEQ NUM	OBSERVERS COMMENTS				
		H	M	S	D	M	S							YR	DAY	HR	MIN						
2251+11	PPZED	22	51	40	11	20	38	15.82	85	0.21	L	0	L	420	00	78	306	21	54	LWR	3212		
HD 8752	AFEBV	22	57	58	56	40	37	5.0	44	1.3	L	0	L	010	00	78	258	00	44	LWR	2358		
HD 8752	AFEBV	22	57	58	56	40	37	5.0	44	1.3	L	0	L	002	00	78	258	01	11	LWR	2358		
HD 8752	AFEBV	22	57	58	56	40	37	5.0	44	1.3	L	0	L	120	00	78	258	01	19	LWR	2652		
HD 8752	AFEBV	22	57	58	56	40	37	5.0	44	1.3	L	0	L	010	00	78	258	03	59	LWR	2359		
HD 8752	AFEBV	22	57	58	56	40	37	5.0	44	1.3	L	0	L	030	00	78	263	10	46	LWR	2705		
HD 8752	AFEBV	22	57	58	56	40	37	5.0	44	1.3	L	0	L	030	00	78	263	11	09	LWR	2705		
NGC 7469	EGAMS	23	00	44	08	36	16	13.3	84		L	0	L	020	00	78	180	15	43	LWR	1879		
NGC 7469	EGAMS	23	00	44	08	36	16	13.3	84		L	0	L	030	00	78	180	16	16	LWR	1747		
NGC 7469	EGAMS	23	00	44	08	36	16	13.3	84		L	0	L	040	00	78	180	18	04	LWR	1748		
NGC 7469	EGAMS	23	00	44	08	36	16	13.3	84		L	0	L	030	00	78	180	18	56	LWR	1880		
IC 225822	COZAB	23	02	07	-08	57	19	13.90	84		L	0	L	035	00	78	277	09	04	LWR	2850		
IC 225822	COZAB	23	02	07	-08	57	19	13.90	84		L	0	L	070	00	78	277	09	48	LWR	2534		
IC 225822	COZAB	23	02	07	-08	57	19	13.90	84		L	0	L	060	00	78	277	11	07	LWR	2851		
IC 225822	COZAB	23	02	07	-08	57	19	13.90	84		L	0	L	050	00	78	277	12	57	LWR	2535		
HD 8781	AFEBV	23	02	16	14	56	09	2.5	25	E-.05	H	H	C	S	001	10	78	260	12	27	LWR	2386	
HD 8781	AFEBV	23	02	16	14	56	09	2.5	25	E-.05	H	H	C	S	003	00	78	260	12	27	LWR	2671	
HD 218376	ICJHB	23	04	29	59	08	57	4.87	20	E0.24	H	C	S	006	00	78	114	19	50	LWR	1410		
HD 218376	ICJHB	23	04	29	59	08	57	4.87	20	E0.24	H	C	S	006	00	78	114	20	45	LWR	1382		
HD 218376	ICJHB	23	04	29	59	08	57	4.87	20	E0.24	H	C	S	004	00	78	114	22	16	LWR	1383		
HD 219188	ALEBJ	23	11	27	04	43	28	6.90	23	E0.12	H	C	S	011	00	78	169	14	47	LWR	1807		
HD 219188	ALEBJ	23	11	28	04	43	28	6.90	23	E0.12	H	C	S	011	00	78	169	15	30	LWR	1688		

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SORTED BY PROGRAM ID

OBJ ID	PRCG ID	TARGET RA			TARGET DEC			VIS MAG	OBJ CLASS	R(B-V) OR B-V	DISP H/L	LG - OBJ APERTURE O/C	OBJ L/S	EXPOSE TIME MIN SEC	EPOSURE START TIME				IMAGE SEQ NUM	OBSERVER'S COMMENTS		
		H	M	S	D	B	S								YR	DAY	HR	MIN				
HD221565	SS2JJ	23	30	26	57	37	46	4.9	36	20.13	H	C	S	150	00	78	295	22	55	LWR	2685	
HD222107	CCAKD	23	35	06	46	11	13	3.88	44	E 0.1	L	O	L	000	09	78	193	13	31	LWR	1822	
HD222107		23	35	06	46	11	13	3.88	44	E 0.1	L	O	L	000	09	78	193	13	38	LWR	1822	
HD222107		23	35	06	46	11	14	3.88	44	E 0.1	H	O	L	005	00	78	193	14	23	LWR	1823	
HD222107	CEJLL	23	35	07	46	11	18	3.80	44		H	O	L	005	00	78	238	09	11	LWR	2178	
HD222107		23	35	07	46	11	18	3.80	44		L	O	L	012	00	78	238	09	25	SWP	2399	
HD222107		23	35	07	46	11	18	3.80	44		H	O	L	021	00	78	238	10	05	LWR	2179	
HD222107		23	35	07	46	11	18	3.80	44		L	O	L	060	00	78	238	10	38	SWP	2400	
223355	BLJBH	23	46	23	61	56		5.4	32	E 0.6	L	C	S	002	00	78	287	07	28	SWP	2968	TRAILED
223365		23	46	23	61	56		5.4	32	E 0.6	L	C	S	006	57	78	287	07	45	SWP	2968	
108 AQR	HVDSL	23	48	46	-19	11		5.2	27	-0.16	H	C	S	009	00	78	293	08	15	SWP	3067	
108 AQR		23	48	46	-19	11		5.2	27	-0.16	H	C	S	007	45	78	293	08	29	LWR	2653	
108 AQR		23	48	46	-19	11		5.2	27	-0.16	H	C	S	016	00	78	293	09	00	SWP	3068	
HD224014	CEJLL	23	51	52	57	13	15	4.9	41		H	O	L	030	00	78	235	07	46	LWR	2157	
HD224014		23	51	52	57	13	16	4.9	41		L	O	L	120	00	78	235	08	25	SWP	2374	
ALP CAM	OD4B0	44	90	3	66	15	39	4.2	13	20.32	H	C	S	003	00	78	251	15	41	SWP	2545	

VILSPA Log of Images for the First Year of IUE

The VILSPA images listed in the following pages are ordered by right ascension of the object and cover the first year of IUE observations (including the commissioning phase).

Due to the volume of such material, we intend to publish only updates in subsequent issues. Thus we advise you to keep this list. A microfiche output will also be considered. An explanation of the programme, object type and exposure codes is also given.

OBSERVING PROGRAMMES SUBMITTED THROUGH THE UK SCIENCE RESEARCH COUNCIL

- UKIXR UK CONTRIBUTION TO THE INTERNATIONAL X-RAY COOPERATION.
FOR OBSERVER INFORMATION SEE UK037
- UKPOP UK HIGH PRIORITY PROGRAMME -- DETAILS FROM:
P GONDHALEKAR/UCL; M SANDFORD/AL
- UK001 STRUCTURE OF STELLAR CHROMOSPHERES AND CORONAE
R WILSON/UCL; C JORDAN/OXFORD
- UK002 A STUDY OF EARLY TYPE EMISSION LINE STARS
R WILSON, A BOKSENBERG, A J WILLIS/UCL; W M BURTON/ARD
- UK003 ATMOSPHERIC STRUCTURE AND ABUNDANCES IN HOT SUPERLUMINOUS STARS
R WILSON, D J CARNOCHAN/UCL; W M BURTON/ARD
- UK005 A STUDY OF THE NUCLEI OF SEYFERT GALAXIES BY OBSERVING THEIR EUV EMISSION
SPECTRUM
C JORDAN/OXFORD
- UK006 THE PHYSICAL AND CHEMICAL STATE OF THE INTERSTELLAR GAS
R WILSON, P GONDHALEKAR, A BOKSENBERG/UCL
- UK007 A STUDY OF NOVAE AND SUPERNOVAE
M J SEATON, J LUTZ/UCL
- UK008 THE STRUCTURE OF PLANETARY NEBULAE
M J SEATON, J LUTZ/UCL
- UK010 ULTRAVIOLET OBSERVATIONS OF STAR CLUSTERS
A BOKSENBERG/UCL
- UK011 ATMOSPHERIC DYNAMICS OF CEPHEID VARIABLES
A BOKSENBERG/UCL
- UK013 A STUDY OF NORMAL AND PECULIAR EXTRA-GALACTIC OBJECTS
R WILSON, A BOKSENBERG/UCL
- UK015 A SEARCH FOR NITRIC OXIDE IN STELLAR ATMOSPHERES
M A GERRIE/AL
- UK016 ULTRAVIOLET OBSERVATIONS OF EXTRAGALACTIC OBJECTS WITH COSMOLOGICAL
RELEVANCE
M S LONGAIR, M J REES/CAMBRIDGE
- UK017 ULTRAVIOLET SPECTRA OF EARLY TYPE HYDROGEN DEFICIENT STARS
P W HILL, D KILKENNY, A E LYNAS-GRAY/ST ANDREWS
- UK018 INVESTIGATION OF HIGH LATITUDE EARLY TYPE STARS
P W HILL, D KILKENNY, A E LYNAS-GRAY/ST ANDREWS
- UK019 INTERSTELLAR EXTINCTION IN THE SOUTHERN MILKY WAY
I G VAN BREDA/RCO; D C B WHITTET/ST ANDREWS

- UK02C SEE UK002
- UK020 MG II EMISSION LINE PROFILES IN BRIGHT F-M STARS
R E J PAGEL/RGO
- UK021 INTERSTELLAR SPECTRAL LINES IN SOUTHERN HEMISPHERE STARS
D MCNALLY/UCL; J C BLADES/AAD
- UK022 STUDY OF MG II EMISSION FROM STELLAR CHROMOSPHERES
R BATES, F M BYRNE, C D MCKEITH/BELFAST
- UK022 INTERSTELLAR MG I AND MG II ABSORPTION
R BATES, F M BYRNE, C D MCKEITH/BELFAST
- UK024 AN INVESTIGATION OF INTERSTELLAR AND CIRCUMSTELLAR REDDENING
K NANDY/ROE
- UK025 ULTRAVIOLET OBSERVATIONS OF PECULIAR A STARS
R GUTHRIE/ROE
- UK026 THE DETECTION OF HOT PLASMA ADJACENT TO THE GALACTIC DISK
D W SCIAMMA/OXFORD; A H GABRIEL/ARD
- UK027 THE EXTENDED ATMOSPHERES OF BE STARS
C R KITCHIN, J C D MARSH/HATFIELD
- UK028 CIRCUMSTELLAR MATERIAL IN ECLIPSING BINARY AND IR EXCESS STARS
R F JAMESON/LEICESTER
- UK029 DYNAMICS OF INTERSTELLAR NEUTRAL HYDROGEN
P THONEHANN/SWANSEA
- UK031 A SEARCH FOR MOLECULES IN CELESTIAL OBJECTS
S P TARAFDAR/CARDIFF; K S KRISHNA SWAMY, M B VARDYA/BOMBAY
- UK033 OBSERVATIONS OF 3C 273, NGC 4151 AND RELATED OBJECTS
A BOKSEBERG, RESEARCH ASSISTANT/UCL
- UK035 AN INVESTIGATION OF THE PHYSICAL PROCESSES IN DWARF NOVAE
J A J WHIFLAN, J E PRINGLE/CAMBRIDGE; G T BATH, J PAPALOISOU/OXFORD
- UK036 A STUDY OF THE PECULIAR ULTRAVIOLET OBJECTS DISCOVERED BY THE
S2/6A SKY SURVEY TELESCOPE
R WILSON, D J CARNOCHAN, M W DWORETSKY/UCL
- UK037 THE ULTRAVIOLET SPECTRA AND VARIABILITY OF GALACTIC AND EXTRAGALACTIC
X-RAY SOURCES
R WILSON, M W GLENCROSS/UCL, J L CULHANE/MSSL; M C W SANDFORD/AL
- UK038 INTERSTELLAR ABSORPTION LINES OF CENTRO SYMMETRIC MOLECULES
C M HUMPHRIES/ROE
- UK040 EXTRA-GALACTIC OBJECTS WITH PREDOMINANTLY CONTINUOUS OPTICAL SPECTRA
M M BURTON, R E PATCHETT/ARD
- UK041 A SEARCH FOR AN INTER-GALACTIC MEDIUM
D W SCIAMMA/OXFORD; A H GABRIEL/ARD
- UK042 ULTRAVIOLET SPECTRA OF MAKKARIAN GALAXIES
M M BURTON, R E PATCHETT/ARD
- UK043 OBSERVATIONS OF PLANETS AND THEIR SATELLITES
G HUNT, P GONDHALEKAR/UCL; A MEADOWS/LEICESTER
- UK044 STRUCTURE OF T-TAURI STARS
M WILSON, P GONDHALEKAR/UCL, N V PENSTON/ESTEC
- UK045 ATMOSPHERIC STRATIFICATION IN ECLIPSING BINARY STARS
A BOKSEBERG/UCL; M R B GARTON/IC
- UK13A SEE UK013
- UK13H SEE UK013
- UKCAL CALIBRATION OBSERVATIONS
D STICKLAND/VILSPA
- UKFII FILLER OBSERVATIONS
D STICKLAND/VILSPA
- UKTON TARGET OF OPPORTUNITY
D STICKLAND/VILSPA

LIST OF ABBREVIATIONS USED

AL SRC APPLETON LABORATORY
ARD ASTROPHYSICS RESEARCH DIVISION OF THE APPLETON LABORATORY
IC IMPERTAL COLLEGE, LONDON
MSSL MULLARD SPACE SCIENCE LABORATORY
RGO ROYAL GREENWICH OBSERVATORY
ROE ROYAL OBSERVATORY EDINBURGH
UCL UNIVERSITY COLLEGE LONDON

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OBSERVING PROGRAMMES SUBMITTED THROUGH THE EUROPEAN SPACE AGENCY

- AB040 STUDY OF THE PECULIAR VARIABLE STAR GAMMA BOO
A BAGLIN, J M LE CONTEL, F PRADERIE/INSTITUT D'ASTROPHYSIQUE, PARIS
- AR020 OBSERVATIONS OF OBJECTS WITH UNCERTAINTIES IN THE MKK CLASSIFICATION
WITH DISCREPANCIES BETWEEN CHALONGE AND MKK CLASSIFICATION OR WITH
ABNORMAL PASCHEN DISCONTINUITY
A RINGHEL/OSSERVATORIO ASTRONOMICCO, LA PLATA (ARGENTINA)
- BD033 OBSERVATIONS OF SUPERNOVAE REMNANTS
P RENVENUTI, S D'ONDORICO/OSSERVATORIO ASTROFISICO DI ASIAGO
- HW019 CHROMOSPHERES OF A-SUPERGIANTS
B WOLF/EUROPEAN SOUTHERN OBSERVATORY, SANTIAGO (CHILE)
- CB031 STELLAR CHROMOSPHERES
C. BLANCO, S. CATALANO, E. MARILLI/OSSERVATORIO ASTROFISICO, CATANIA
- CC036 OBSERVATIONS OF MARKARIAN GALAXIES
C CASINI/OSSERVATORIO ASTRONOMICCO DI BRESCIA, MERATE
- CP035 UV OBSERVATIONS OF COMPACT EXTRAGALACTIC H EMITTERS
D CITTERIO, P DI BENEDETTO, E TANZI, G C PEROLA/LABORATORIO DI FISICA
COSMICA, MILANO; H TARENGHI/STENARD OBSERVATORY, TUCSON, ARIZONA
- DF010 OBSERVATIONS OF CIII EMISSION IN PLANETARY NEBULAE
D R FLOMER/OBSERVATOIRE DE PARIS; H HUSSBAUMER/GRUPPE FUR ATOM UND
ASTROPHYSIK, ZURICH
- FBA24 STUDY OF IMP II TYPE GALAXIES
F BERTOLA, G DI TULLIO/OSSERVATORIO ASTRONOMICCO, PADOVA
- FR024 INVESTIGATIONS OF THE U, V, CONTINUUM IN ELLIPTICAL GALAXIES
F BERTOLA, M CAPACCIOLO/OSSERVATORIO ASTRONOMICCO, PADOVA
- FC027 POPULATION II B-TYPE STARS WITH NEAR HELIUM LINES
P L BERNACCA, F CIATTI/OSSERVATORIO ASTROFISICO DI ASIAGO
- FG006 STUDIES OF STELLAR MG II LINES AT 2000 ANGSTROMS
K. FREDGA, G. F. GAHM/STOCKHOLM OBSERVATORY; B. GUSTAFSSON/UPPSALA
OBSERVATORY
- FM050 A STUDY OF THE MASS-LOSS PROCESS IN EARLY-TYPE STARS
F MACCHETTO/ASTRONOMY DIVISION, ESTEC, NOORDWIJK;
C DE JAGER, H J LAMERS/SPACE RESEARCH LABORATORY, UTRECHT
- FP047 DIAGNOSTICS OF VELOCITY FIELDS, MASS-LOSS AND CHROMOSPHERES IN A TYPE
GIANTS AND SUPERGIANTS
F PRADERIE, E SIMONNEAU, R N THOMAS/INSTITUT D'ASTROPHYSIQUE, PARIS;
H J LAMERS/SPACE RESEARCH LABORATORY, UTRECHT
- GG005 ULTRAVIOLET SPECTRUM OF T TAURI STARS
G. F. GAHM, K. FREDGA/STOCKHOLM OBSERVATORY
- GM045 U, V, OBSERVATION OF AP STARS
M GERRALDI, M MORGULEFF/INSTITUT D'ASTROPHYSIQUE, PARIS;
C MEGESSIER, V DOAZAN/OBSERVATOIRE DE PARIS
- GP036 GALAXIES IN THE CLUSTERS COMA, HERCULES AND A 2199
G C PEROLA/LABORATORIO DI FISICA COSMICA, MILANO; W JAFFE/STERREMACHT,
LEIDEN; H TARENGHI/STENARD OBSERVATORY, TUCSON, ARIZONA
- HL048 SHORT TIME VARIABILITY OF EARLY-TYPE SUPERGIANTS
H J LAMERS, C DE JAGER/SPACE RESEARCH LABORATORY, UTRECHT
- HM021 PECULIAR A-STARS
H M MAITZEN/ASTRONOMISCHES INSTITUT, BOCHUM
- HM043 OBSERVATIONS OF T TAURI STARS AND OB SUPERGIANTS
H MAUDER/ASTRONOMISCHES INSTITUT DER UNIVERSITAT TUBINGEN
- KH001 HYDROGEN DEFICIENT STARS AND RELATED OBJECTS
K. MUNGER/INSTITUT FUR ASTROPHYSIK, BERLIN
- KH014 A STUDY OF O-TYPE STARS
K A VAN DER HUUCHT/SPACE RESEARCH LABORATORY, UTRECHT
- KH052 SHORT TIME VARIABILITY OF TWO WOLF-RAYET STARS
K A VAN DER HUUCHT/SPACE RESEARCH LABORATORY, UTRECHT;
F MACCHETTO/ASTRONOMY DIVISION, ESTEC, NOORDWIJK
- LH006 STUDY OF LUMINOSITY EFFECTS IN THE SPECTRUM OF B-TYPE STARS
L HOUZIAUX/DEPARTEMENT D'ASTROPHYSIQUE, UNIVERSITE DE MONS.
- LHA07 INVESTIGATION OF IO AND NI EXCITATION MECHANISMS IN BE STARS
L. HOUZIAUX/DEPARTEMENT D'ASTROPHYSIQUE, UNIVERSITE DE MONS.
- LHB07 OBSERVATIONS OF THREE PECULIAR HOT STARS
L. HOUZIAUX/DEPARTEMENT D'ASTROPHYSIQUE, UNIVERSITE DE MONS.
- LS017 OBSERVATIONS OF THE EXISTING STARS OF COMPACT HII REGIONS
L F SMITH/MPI FUR RADIOASTRONOMIE, BONN
- LS044 OBSERVATION OF INTERSTELLAR ABSORPTION LINES OF ATOMS AND MOLECULES
L F SMITH, G HINNERHESSE/MPI FUR RADIOASTRONOMIE, BONN
- MC012 STUDY OF OPEN CLUSTERS AND SELECTED FIELD STARS
M GOLAY, A GAIDE, G COY, A MAEDER/OBSERVATOIRE DE GENEVE
- MHA02 EXCEPTIONAL BINARIES OR SUSPECTED BINARIES
R. CESTER, R. FARAGGIANA, M. HACK, M. PUCILLO/OSSERVATORIO ASTRONOMICCO,
TRIESTE
- MHR02 EARLY-TYPE SUPERGIANTS
M. HACK, F. LANFRE-CASTELLI, R. STALIO/OSSERVATORIO ASTRONOMICCO, TRIESTE
- MHC02 AP AND MAGNETIC STARS
R. FARAGGIANA, M. HACK, F. LANFRE-CASTELLI, P.O. BELVELLI/OSSERVATORIO
ASTRONOMICCO, TRIESTE
- MHD02 AP AND HE-POOR STARS OF POPULATION I AND II
M HACK, R STALIO/OSSERVATORIO ASTRONOMICCO, TRIESTE

- MH011 A STUDY OF WOLF-RAYET STARS IN SELECTED EMISSION LINES
M C E HUBER, H HUSSBAUMER/GRUPPE FÜR ATOM UND ASTROPHYSIK, ZÜRICH
- MP028 UV OBSERVATIONS OF PLANETARY NEBULAE
M PERINOTTO, P PATRICHCHI/OSSERVATORIO ASTROFISICO, ARCETRI
- MP029 INVESTIGATION OF THE U V CONTINUUM IN THE ORION NEBULA
M PERINOTTO/OSSERVATORIO ASTROFISICO, ARCETRI
- MH003 CHROMOSPHERIC ACTIVITY IN DWARF STARS
M. REGO, M. J. FERNANDEZ-FIGUEROA/DEPARTAMENTO DE ASTRONOMIA, UNIVERSIDAD DE MADRID; M. LOPEZ AHRROY/OBSERVATORIO ASTRONÓMICO DE MADRID.
- MU009 OBSERVATIONS OF NUCLEI OF TWO SEYFERT GALAXIES AND A QSO
M H ULRICH/DEPARTEMENT D'ASTROPHYSIQUE, OBSERVATOIRE DE PARIS
- NH051 EMISSION AND VARIABILITY IN AE-TYPE STARS
S DUMONT, N HEIDMANN, R N THOMAS/INSTITUT D'ASTROPHYSIQUE, PARIS;
L V KUHI/DEPARTMENT OF ASTRONOMY, BERKELEY UNIVERSITY, CALIFORNIA
- PR030 U V INTERSTELLAR EXTINCTION IN THE DIRECTION OF OB ASSOCIATIONS
M PERINOTTO, G TAGLIAFERRI/OSSERVATORIO ASTROFISICO, ARCETRI;
J AIELLO, A BONETTI, F MENCARAGLIA/ISTITUTO DI FISICA, UNIVERSITA DI FIRENZE
- PR042 OPTICAL COUNTERPARTS OF GALACTIC X-RAY SOURCES
R BARRON, P L BERNACCA, F CIATTI/OSSERVATORIO ASTROFISICO DI ASSAGO;
C REINA, A TREVES/LABORATORIO DI FISICA COSMICA, MILANO; M TARENGHI/
STEWART OBSERVATORY, TUCSON, ARIZONA
- PSA13 PECULIAR EMISSION-LINE OBJECTS
J P SWINGS/INSTITUT D'ASTROPHYSIQUE, LIEGE
- PSB13 O AND WR STARS
P SWINGS AND J M VREUX/INSTITUT D'ASTROPHYSIQUE, LIEGE
- PSC13 METAL-POOR F AND G STARS
C ARPIGNY/INSTITUT D'ASTROPHYSIQUE, LIEGE
- PSD13 TD1 82/368 SELECTED STARS
D MALATSE, F BEECKMANS/INSTITUT D'ASTROPHYSIQUE, LIEGE
- PT037 NUCLEAR REGIONS OF M87, NGC5253 AND NGC5128
G C PEROAL/LABORATORIO DI FISICA COSMICA, MILANO; M TARENGHI/STEWART
OBSERVATORY, TUCSON, ARIZONA
- RR039 A SEARCH FOR THE SOLAR FEATURE AT 2065 Å IN THE CONTINUOUS SPECTRUM OF
A, F AND G STARS
R M BONNET, D SACOTTE, D SAHAIN/LABORATOIRE DE PHYSIQUE STELLAIRE
ET PLANETAIRE, VERRIERES-LE-BUISSON; F PRADERIE/INSTITUT D'ASTROPHYSIQUE,
PARIS
- RR041 STUDY OF SPECTRAL LINES FROM WHICH TO DETECT STELLAR CHROMOSPHERES IN
A-TYPE STARS
R M BONNET/L.P.S.P. - VERRIERES-LE-BUISSON; M GROSS, F PRADERIE/
INSTITUT D'ASTROPHYSIQUE, PARIS
- RD016 OBSERVATIONS OF INTERSTELLAR ABSORPTION LINES
R J VAN DUINEN, S R POTTASCH/DEPARTMENT OF SPACE RESEARCH, UNIVERSITY
OF GRONINGEN
- SL034 OBSERVATIONS OF COMPACT EXTRAGALACTIC OBJECTS
J E STENFLO, L LINDEGREN, J LIND/LUND OBSERVATORY
- VB032 INVESTIGATIONS OF EMISSION LINES OBJECTS
G B HARATTA/OSSERVATORIO ASTRONÓMICO, ROMA; A CABBATELLA, R VIOTTI/
LABORATORIO DI ASTROFISICA SPAZIALE, FRASCATI
- VR032 H. V. OBSERVATIONS OF THE SPECTRUM OF ETA CARINAE
R VIOTTI/LABORATORIO DI ASTROFISICA SPAZIALE, FRASCATI
- VH049 THE STUDY OF X-RAY BINARYS
F P J VAN DEN HEUVEL/ASTRONOMICAL INSTITUTE, UTRECHT;
M J LAMERS/SPACE RESEARCH LABORATORY, UTRECHT
- VILSP GENERAL STUDIES
P BENVENUTI, A CABBATELLA, J CLAVEL, A HECK, M PENSTON, P BELVELLI/ESTEC
F MACCHETTO/ESTEC, D STICKLAND/VILSPA (SRC)
- XGAL EUROPEAN 'EXTRAGALACTIC WEEK' -- COORDINATOR M.H.ULRICH / ESO
- XR001 EUROPEAN CONTRIBUTION TO THE INTERNATIONAL X-RAY COOPERATION
- XR002 OBSERVERS FROM PROGRAMS PR042 AND VH049

CLASSIFICATION OF OBJECTS USED IN THE JOINT ERA/SRC 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	SUPPERNOVAE
07	INTERPLANETARY MEDIUM	57	SYMBIOTIC STARS
08		58	T TAURI
09		59	X-RAY
10	M C	60	SHELL STAR
11	M N	61	ETA CARINAE
12	MAIN SEQUENCE O	62	PULSAR
13	SUPERGIANT O	63	NOVA-LIKE
14	OE	64	
15	OF	65	
16	SD O	66	
17	WD O	67	
18		68	
19	UV-STRONG	69	
20	R0-R2 V-IV	70	PLANETARY NEBULA + CENTRAL STAR
21	R3-R5 V-IV	71	PLANETARY NEBULA - CENTRAL STAR
22	R6-R9.5 V-IV	72	H II REGION
23	R0-R2 III-I	73	REFLECTION NEBULA
24	R3-R5 III-I	74	DARK CLOUD (ABSORPTION SPECTRUM)
25	R6-R9.5 III-I	75	SUPERNOVA REMNANT
26	RE	76	RING NEBULA (SHOCK IONIZED)
27	RP	77	
28	SDH	78	
29	WDH	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		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 IFEB79); GIV-VI (FROM IFEB79)	94	
45	G I-II (FROM IFEB79)	95	
46	K (TO IFEB79); K IV-VI (FROM IFEB79)	96	
47	K I-III (FROM IFEB79)	97	
48	M (TO IFEB79); M DWARFS (FM IFEB79)	98	
49	M I-III (FROM IFEB79)	99	

THE CLASSIFICATION IS SUPPLIED BY D. STECK AND FOR USE ONLY WITHIN THE PROJECT

EXPOSURE CLASSIFICATION CODES

SINCE 1 AUG 78 A TWO-DIGIT CODE HAS BEEN USED TO DESCRIBE EXPOSURE LEVELS. THIS CODE OCCUPIES THE FIRST TWO CHARACTER POSITIONS OF THE COMMENT FIELD.

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

THE CLASSIFICATIONS BELOW APPLY TO BOTH:

- 0: NOT APPLICABLE
- 1: NO SPECTRUM VISIBLE
- 2: FAINT SPECTRUM; MAX DN < 20 ABOVE BACKGROUND
- 3: UNDFREXPOSED; MAX DN < 100 ABOVE BACKGROUND
- 4: WEAK; MAX DN BETWEEN 100 AND 150 ABOVE BACKGROUND
- 5: GOOD; NO SATURATION BUT MAX DN OVER 150 ABOVE 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

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLIN DEG MN	DISP +CAM	APERT IMAGE OR LG	START DATE	LENGTH HR MN SC	PROG	COMMENT
MKN 335	84	14.0	00 03 45	+19 55	L 3	1919 L 0	05JUL78	16 00 00	0024B	A BIT STRONG APPROX START
NGC 40	70	11.4	00 10 18	+72 14	L 2	2656 L 0	20OCT78	16 12 34	MP02B	35
NGC 40	70	11.4	00 10 18	+72 14	L 3	3074 L 0	20OCT78	16 53 13	MP02B	24
NGC 40	70	11.4	00 10 18	+72 14	L 3	3075 L 0	20OCT78	17 34 26	MP02B	57
NGC 40	71	11.4	00 10 18	+72 14	L 3	3076 L 0	20OCT78	18 36 55	MP02B	02OFFSET BY 7 SEC
HD 486	20	2.8	00 10 42	+14 54	H 2	2262 B C	03SEP78	22 24 40	28	UK022 60
HD 486	20	2.8	00 10 42	+14 54	H 3	2469 B C	03SEP78	22 55 00	25	UK022 70GOOD FOR SW
HD 1581	44	4.2	00 17 19	-65 16	H 2	1699 L 0	07FEB79	08 30 27	20 00	BN053 65
HD 1581	44	4.2	00 17 29	-65 11	H 2	1862 B C	20JUL78	23 39 00	31 00	BN053 WELL EXP AT LONG WL
HD 1581	44	4.2	00 17 29	-65 10	H 2	2191 B C	27AUG78	21 58 00	45 00	BN053 60
HD 1581	44	4.2	00 17 37	-65 10	H 2	2621 B C	16OCT78	14 34 31	60 00	UK020 74
HD 2151	44	2.8	00 23 09	-77 32	H 2	1863 B C	21JUL78	00 57 00	16 00	BN053 GOOD AT LONG WL
HD 2151	44	2.8	00 23 09	-77 32	H 2	2192 B C	27AUG78	23 33 00	13 00	BN053 60
HD 2151	44	2.8	00 23 09	-77 32	H 2	2610 B C	15OCT78	16 20 00	30 00	UK020 75
HD 2151	44	2.8	00 23 09	-77 32	H 2	2811 B C	03NOV78	15 49 47	15 00	FG004 77
HD 2151	44	2.8	00 23 09	-77 32	H 2	2812 B C	03NOV78	16 57 50	15 00	FG004 77
HD 2151	44	2.8	00 23 09	-77 32	H 2	2813 B C	03NOV78	17 43 25	15 00	FG004 77
HD 2151	44	2.8	00 23 09	-77 32	H 2	2833 B C	05NOV78	18 10 26	15 00	FG004 65
HD 2151	44	2.8	00 23 09	-77 32	H 2	2834 B C	05NOV78	18 56 58	15 00	FG004 65
HD 2151	44	2.8	00 23 09	-77 32	H 2	3700 L 0	07FEB79	09 34 29	8 30	BN053 75
HD 2151	44	2.8	00 23 09	-77 32	H 2	1593 B C	02JUN78	02 46 11	15 00	UKPOP GOOD FOR MG II LINES
HD 2151	44	2.8	00 23 29	-77 32	L 3	1889 B C	02JUN78	03 24 11	20 00	UKPOP CONT AT RED END ONLY
HD 26129	85	14.8	00 26 38	+04 13	L 3	2108 L 0	30JUL78	01 40 00	120 00	UK016 A BIT WEAK MAX DN 120
HD 2905	23	4.2	00 30 08	+62 39	H 2	2913 B C	09SEP78	18 35 28	6 00	FM050 70
HD 2905	23	4.1	00 30 08	+62 39	H 2	3926 B C	08MAR79	11 30 05	6 00	FM050 70
HD 2905	23	4.2	00 30 08	+62 39	H 3	2582 B C	09SEP78	17 53 04	10 00	FM050 60GOOD FOR SW
HD 2905	23	4.2	00 30 08	+62 39	H 3	2583 B C	09SEP78	19 11 08	13 00	FM050 60GOOD FOR SW
HD 2905	23	4.2	00 30 08	+62 39	H 3	2586 B C	09SEP78	21 45 30	10 00	FM050 60GOOD FOR SW
HD 2905	23	4.2	00 30 08	+62 39	H 3	2587 B C	09SEP78	22 25 40	10 00	FM050 60
HD 2905	23	4.2	00 30 08	+62 39	H 3	2588 B C	09SEP78	23 07 14	10 00	FM050 60
HD 2905	23	4.2	00 30 08	+62 39	H 3	2589 B C	09SEP78	23 56 13	10 00	FM050 60
HD 2905	23	4.2	00 30 08	+62 39	H 3	2612 B C	10SEP78	16 42 00	6 00	FM050 50
HD 2905	23	4.2	00 30 08	+62 39	H 3	2613 B C	10SEP78	17 25 23	6 00	FM050 50
HD 2905	23	4.2	00 30 08	+62 39	H 3	2616 B C	10SEP78	19 42 05	6 00	FM050 50
HD 2905	23	4.2	00 30 08	+62 39	H 3	2617 B C	10SEP78	20 24 22	6 00	FM050 50
HD 2905	23	4.2	00 30 08	+62 39	H 3	2620 B C	10SEP78	22 29 30	6 00	FM050 50
HD 2905	23	4.2	00 30 08	+62 39	H 3	2621 B C	10SEP78	23 07 26	6 00	FM050 50
HD 2905	23	4.2	00 30 08	+62 39	H 3	2622 B C	10SEP78	23 43 30	6 00	FM050 50
HD 2905	23	4.1	00 30 08	+62 39	H 3	4874 B C	08MAR79	11 10 10	6 00	FM050 66
HD 2905	25	4.2	00 30 10	+62 40	H 3	2943 B C	12OCT78	18 02 53	6 00	FM050 60
HD 3360	20	3.6	00 34 10	+53 37	H 2	3284 B C	26DEC78	13 27 59	35	UKCAL 50
HD 3360	20	3.6	00 34 10	+53 37	H 3	3712 B C	26DEC78	13 30 57	1 00	UKCAL 70
-38 222	19	10.5	00 40 34	-38 24	L 3	4184 B C	08FEB79	06 49 50	2 25	UK036 50
-38 222	19	10.5	00 40 34	-38 24	L 3	4184 L U	08FEB79	06 43 00	1 35	UK036 60
NGC 246	70	11.9	00 44 35	-12 09	L 2	1502 B C	16MAY78	03 09 04	6 00	UKPOP UNDEREXP
NGC 246	70	11.9	00 44 35	-12 09	L 2	1503 B C	16MAY78	04 46 10	30 00	UKPOP UNDEREXP
NGC 246	70	11.9	00 44 35	-12 09	L 3	1556 B C	16MAY78	04 07 39	30 00	UKPOP VERY UNDEREXP
NGC 246	70	11.9	00 44 35	-12 09	L 3	1563 B C	17MAY78	07 23 47	4 00	UKPOP UNDEREXP

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLIN DEG MN	DISP +CAM	APERT IMAGE OR LG	START DATE	LENGTH HR MN SC	PROG	COMMENT
HD 4614	44	3.4	00 46 03	+57 33	H 2	1765 B C	02JUL78	03 53 05	15 00	MR003 DOUBLE - MISSED APERTURE
HD 4614	44	3.4	00 46 03	+57 33	L 3	1902 B C	02JUL78	04 17 50	26 00	MR003 MISSED APERTURE
HD 4614	44	3.4	00 46 04	+57 33	L 3	4031 L 0	25JAN79	11 17 16	30 00	UK001- 77SAT LONG OF 1050
HD 4614	44	3.4	00 46 05	+57 33	H 2	2170 B C	24AUG78	23 29 00	25 00	UK031 30
-11 162	28	11.2	00 49 44	-10 56	L 3	4105 L 0	31JAN79	14 47 24	3 05	UK036 50
-11 162	28	11.2	00 49 44	-10 56	L 3	4105 B C	31JAN79	14 36 39	4 40	UK036 50
I ZW 1	84	14.0	00 50 58	+12 25	L 2	1955 L 0	02AUG78	23 10 06	210 00	UK138 56
I ZW 1	84	14.0	00 50 58	+12 25	L 3	2216 L 0	05AUG78	23 23 26	200 00	UK138 45
I ZW 1	84	14.0	00 50 58	+12 25	L 3	2333 L 0	18AUG78	23 05 41	155 00	UK138 34
SBC-X2	59	14.6	00 52 57	-73 57	L 3	2012 L 0	15JUL78	00 23 16	60 00	XRB02 UXP X2
SBC-X2	59	14.6	00 52 57	-73 57	L 3	2013 L 0	16JUL78	02 03 19	97 00	XRB02 WEAK MAX DN 130
HD 5394	20	2.6	00 53 40	+60 26	H 2	2556 B C	08OCT78	18 05 00	20	LHA07 60
HD 5394	20	2.6	00 53 40	+60 26	H 3	2887 B C	08OCT78	17 55 00	16	LHA07 50
HD 5394	59	2.6	00 53 41	+60 27	H 2	1423 B C	01MAY78	01 37 17	6	XRB01 MAX DN 120, UNDEREXP.
HD 5394	59	2.6	00 53 41	+60 27	H 2	1424 B C	01MAY78	03 18 09	10	XRB01 SLIGHTLY UNDEREXP.
HD 5394	59	2.6	00 53 41	+60 27	H 3	1321 B C	06APR78	10 07 24	45	UKPOP GOOD-SOME SAT LONG WL
HD 5394	59	2.6	00 53 41	+60 27	H 3	1448 B C	01MAY78	00 47 14	45	XRB01 OVEREXP.
HD 5394	59	2.6	00 53 41	+60 27	H 3	1449 B C	01MAY78	02 30 15	15	XRB01 GOOD
HD 5394	59	2.6	00 53 41	+60 27	H 3	4640 B C	15MAR79	07 24 35	15	GHI41 66
COM1978H	06	13.0	00 56 50	-68 01	L 2	2059 L 0	08NOV78	14 06 13	25 00	VILSP 02ONLY ON(0,0)
COM1978H	06	13.0	00 56 50	-68 01	L 3	3267 B U	08NOV78	14 04 33	50 00	VILSP 03
COM1978H	06	13.0	00 56 50	-68 01	L 3	3267 L 0	08NOV78	14 04 33	50 00	VILSP 06
+03 1011	20	12.0	01 01 42	+03 58	L 2	3319 L 0	29DEC78	12 24 18	14 00	FC027 70
+03 1011	20	12.0	01 01 42	+03 58	L 3	3736 L 0	29DEC78	12 48 35	14 00	FC027 80
T0109-3R	84	14.0	01 09 10	-38 21	L 3	1420 L 0	26APR78	05 03 00	180 00	UKPOP NO SPECTRUM
SBC-X1	59	13.5	01 15 45	-73 42	L 2	1429 L 0	15JUL78	23 44 32	35 00	UK1XR A BIT STRONG
SBC-X1	59	13.5	01 15 45	-73 42	L 3	2020 L 0	16JUL78	00 45 02	35 00	UK1XR GOOD MAX DN 175
ESO 113	84	13.2	01 21 51	-59 04	L 2	1954 L 0	02AUG78	20 07 54	45 00	UK138 56
ESO 1645	84	13.2	01 21 51	-59 04	L 2	3959 L 0	08MAR79	04 45 51	45 00	UK138 56
ESO 1645	84	13.2	01 21 51	-59 04	L 2	3960 L 0	08MAR79	07 09 35	25 00	UK138 55
ESO 113	84	13.2	01 21 51	-59 04	L 3	2178 L 0	02AUG78	21 16 37	45 00	UK138 45
ESO 113	84	13.2	01 21 51	-59 04	L 3	2215 L 0	05AUG78	19 52 40	120 00	UK138 57
ESO 1645	84	13.2	01 21 51	-59 04	L 3	4539 L 0	08MAR79	05 38 08	45 00	UK138 56
E1131645	85	13.2	01 21 51	-59 04	L 3	4712 L 0	23MAR79	05 51 45	30 00	UK138 35
NGC 520	02	12.5	01 21 57	+03 33	L 3	4207 L 0	09FEB79	11 49 43	120 00	FR024 11
HD 9974	11	10.8	01 35 42	+57 54	L 2	3808 L 0	20FEB79	10 44 39	1 30	UK02A 22
HD 9974	11	10.8	01 35 42	+57 54	L 2	3808 B C	20FEB79	10 37 04	2 20	UK02A 33
HD 9974	11	10.8	01 35 42	+57 54	L 3	4311 B C	20FEB79	10 22 50	3 30	UK02A 23
HD 9974	11	10.8	01 35 42	+57 54	L 3	4311 L 0	20FEB79	10 13 46	2 20	UK02A 34
HD 10516	26	4.1	01 40 31	+50 26	H 2	2326 B C	11SEP78	23 23 00	1 40	UK027 66
HD 10516	26	4.1	01 40 31	+50 26	H 2	3082 B C	01DEC78	12 37 10	1 45	PSD13 60
HD 10516	26	4.1	01 40 31	+50 26	H 3	2630 B C	11SEP78	23 46 00	2 00	UK027 66
HD 10516	26	4.1	01 40 31	+50 26	H 3	3504 B C	01DEC78	12 37 17	1 30	PSD13 50
HD 10700	44	3.5	01 41 41	-16 12	H 2	2625 B C	16OCT78	20 08 27	50 00	UK020 63
HD 10700	44	3.5	01 41 41	-16 12	H 2	2626 B C	16OCT78	21 31 00	12 00	UK020 53
HD 10700	44	3.5	01 41 45	-16 12	H 2	2194 B C	20AUG78	01 18 00	21 00	BN053 40
HD 10700	44	3.5	01 41 45	-16 12	H 2	3702 L 0	07FEB79	11 14 40	16 30	BN053 65
HD 10700	44	3.5	01 41 45	-16 21	L 3	4033 L 0	25JAN79	10 51 07	57 00	UK001 44

OBJECT	CL	MAG	RT	ASCN	DECLN	DISP	APERT	START	LENGTH	PROG	COMMENT			
			HR	MM	SC	DEG	MIN	HR	MM	SC				
HD 10700	44	3.5	01	41	45	-16 12	L 3	4054	L 0	27JAN79	11 45 38	150 00	UK001	66
HD 11937	44	3.7	01	54	01	-51 51	H 2	2814	S C	03NOV78	19 27 36	20 00	FG004	35
HD 11937	44	3.7	01	54	01	-51 51	H 2	2831	S C	05NOV78	15 25 12	60 00	FG004	66
HD 11937	44	3.7	01	54	01	-51 51	H 2	2832	S C	05NOV78	17 08 12	20 00	FG004	45
+37 442	16	10.0	01	55	36	+38 20	L 2	2805	L 0	02NOV78	13 52 00	45	UK036	50
+37 442	16	10.0	01	55	36	+38 20	L 2	2805	S C	02NOV78	13 46 00	1 05	UK036	50
+37 442	16	10.0	01	55	36	+38 20	L 3	3207	S C	02NOV78	13 03 02	1 30	UK036	50
+37 442	16	10.0	01	55	36	+38 20	L 3	3207	L 0	02NOV78	12 53 26	1 00	UK036	60
HD 12311	40	2.9	01	57	12	-61 49	H 2	2193	S C	28AUG78	00 33 00	7 00	BN053	50
HD 12311	40	2.9	01	57	12	-61 49	H 2	3701	L 0	07FEB79	10 35 00	4 30	BN053	70
HD 12311	40	2.9	01	59	12	-61 49	H 2	1864	S C	21JUL78	02 12 00	9 00	BN053	GOOD AT LONG WL
HD 12301	25	5.6	01	59	17	+64 09	H 2	3774	L 0	15FEB79	10 32 20	16 00	FM050	50
HD 12301	25	5.6	01	59	17	+64 09	H 3	4265	L 0	15FEB79	09 22 31	65 00	FM050	50
HD 12869	35	5.0	02	03	46	+22 24	L 3	4447	S C	01MAR79	11 16 48	2 00	RB041	60
HD 12869	35	5.0	02	03	46	+22 24	L 3	4447	L 0	01MAR79	11 02 28	9 00	RB041	70
HD 14386	51	5.6	02	16	49	-03 12	L 2	3892	L 0	28FEB79	12 40 03	29 00	VILSP	KMIRA
HD 15089	30	4.6	02	24	55	+67 10	H 2	2555	S C	08OCT78	14 25 47	35 00	LHA07	60
HD 15089	34	4.6	02	24	55	+67 11	H 2	3950	L 0	07MAR79	08 48 47	8 00	LHA07	60
HD 15089	30	4.6	02	24	55	+67 10	H 3	2886	S C	08OCT78	15 08 00	120 00	LHA07	60
HD 15089	34	4.6	02	24	55	+67 11	H 3	4522	L 0	07MAR79	09 01 11	9 00	LHA07	50
HD 15351	16	8.5	02	25	50	+13 39	L 3	4083	S C	29JAN79	15 06 28	2 30	UK036	40
HD 15351	16	8.5	02	25	50	+13 39	L 3	4083	L 0	29JAN79	18 57 55	1 35	UK036	50
+60 497	12	8.9	02	28	09	+61 23	L 2	3660	S C	03FEB79	07 20 00	10 00	MG012	70
+60 497	12	8.9	02	28	09	+61 23	L 2	3660	L 0	03FEB79	06 54 23	21 50	MG012	80
+60 497	12	8.9	02	28	09	+61 23	L 2	3663	L 0	03FEB79	12 11 20	4 00	MG012	60
+60 497	12	8.9	02	28	09	+61 23	L 3	4115	L 0	01FEB79	13 31 06	10 30	MG012	40
+60 498	12	9.9	02	28	22	+61 19	L 2	3662	S C	03FEB79	11 12 36	20 00	MG012	50
+60 498	12	9.9	02	28	22	+61 19	L 2	3662	L 0	03FEB79	10 13 00	57 00	MG012	80
+60 498	12	9.9	02	28	22	+61 19	L 3	4132	L 0	03FEB79	09 28 00	29 00	MG012	50
+60 501	12	9.6	02	28	48	+61 15	L 2	3645	S C	01FEB79	13 04 30	11 00	MG012	50
+60 501	12	9.6	02	28	48	+61 15	L 2	3645	L 0	01FEB79	12 21 57	26 00	MG012	70
+60 501	12	9.6	02	28	48	+61 15	L 3	4114	L 0	01FEB79	11 50 47	13 45	MG012	50
+60 502	13	7.8	02	28	54	+61 14	L 2	3644	S C	01FEB79	11 15 06	3 00	MG012	5
+60 502	13	7.8	02	28	54	+61 14	L 2	3644	L 0	01FEB79	11 01 08	7 10	MG012	70
+60 502	13	7.8	02	28	54	+61 14	L 3	4113	L 0	01FEB79	10 48 40	3 25	MG012	50
HD 15570	20	8.0	02	29	01	+61 09	H 2	2736	S C	27OCT78	14 37 13	30 00	UK068	10
HD 15570	13	8.1	02	29	01	+61 09	L 2	3643	S C	01FEB79	09 58 30	12 00	MG012	60
HD 15570	13	8.1	02	29	01	+61 09	L 2	3643	L 0	01FEB79	09 25 53	23 00	MG012	70
HD 15570	20	8.0	02	29	01	+61 09	H 3	3171	S C	27OCT78	15 14 45	167 00	UK068	30
HD 15570	20	8.0	02	29	01	+61 09	H 1	3189	S C	29OCT78	16 20 00	180 00	UK068	34
HD 15570	13	8.1	02	29	01	+61 09	L 3	4112	L 0	01FEB79	09 05 20	10 34	MG012	45
+60 507	12	8.4	02	29	48	+61 18	L 2	3641	L 0	01FEB79	06 31 54	7 30	MG012	700K FOR 2200A
+60 507	12	8.4	02	29	48	+61 18	L 2	3642	L 0	01FEB79	07 35 42	2 00	MG012	50
+60 507	12	8.4	02	29	48	+61 18	L 3	4111	L 0	01FEB79	06 55 00	4 00	MG012	55
+60 513	12	9.4	02	30	14	+61 10	L 2	3661	S C	03FEB79	09 20 00	9 00	MG012	50
+60 513	12	9.4	02	30	14	+61 10	L 2	3661	L 0	03FEB79	08 34 20	27 00	UKCAL	70
+60 513	12	9.4	02	30	14	+61 10	L 3	4131	L 0	03FEB79	07 58 30	14 30	MG012	45
MOON	02	-9.9	02	34	30	+05 46	L 2	3141	L 0	10DEC78	17 44 09	3	UK043	70

OBJECT	CL	MAG	RT	ASCN	DECLN	DISP	APERT	START	LENGTH	PROG	COMMENT			
			HR	MM	SC	DEG	MIN	HR	MM	SC				
MOON	02	-9.9	02	34	30	+05 46	L 2	3141	S C	10DEC78	17 42 35	28	UK043	70
0235+164	87	14.7	02	35	53	+16 24	L 2	3688	L 0	06FEB79	06 53 06	415 00	UK138	22
0235+164	87	14.7	02	35	53	+16 24	L 3	4161	L 0	05FEB79	07 22 41	385 00	UK138	22
HD 16523	10	10.6	02	37	30	+56 31	L 2	3807	L 0	20FEB79	08 41 39	4 00	UK02A	35
HD 16523	10	10.6	02	37	30	+56 31	L 2	3807	S C	20FEB79	08 28 32	6 00	UK02A	34
HD 16523	10	10.6	02	37	30	+56 31	L 3	4310	S C	20FEB79	08 03 42	8 00	UK02A	25
HD 16523	10	10.6	02	37	30	+56 31	L 3	4310	L 0	20FEB79	07 52 19	5 00	UK02A	35
NGC 1052	86	12.0	02	38	37	-08 28	L 2	3198	L 0	18DEC78	14 00 20	225 00	UK033	22
NGC 1052	86	12.0	02	38	37	-08 28	L 3	3645	L 0	19DEC78	14 42 40	183 00	UK033	22
NGC 1052	84	12.0	02	38	37	-08 28	L 3	4540	L 0	08MAR79	09 36 13	130 00	UK138	20
HD 17576	44	7.9	02	46	08	-37 11	L 2	3635	S C	31JAN79	13 43 36	2 00	UK036	40
HD 17576	44	7.9	02	46	08	-37 11	L 2	3635	L 0	31JAN79	13 39 24	1 20	UK036	50
HD 17576	44	7.9	02	46	08	-37 11	L 3	4104	L 0	31JAN79	13 08 22	1 10	UK036	50
HD 17576	44	7.9	02	46	08	-37 11	L 3	4104	S C	31JAN79	13 02 58	1 35	UK036	50
HD 18884	48	2.5	02	59	40	+05 54	L 3	2807	L 0	29SEP78	22 15 02	90 00	UK001	35
-23 1184	41	8.8	03	00	11	-23 00	L 2	1733	L 0	26JUN78	05 37 00	10 00	VILSP	NO SPECTRUM
HD 19356	22	2.1	03	04	55	+40 46	H 2	2395	S C	13SEP78	19 04 35	20	UK028	405W UXP
HD 19356	22	2.1	03	04	55	+40 46	H 3	2643	S C	13SEP78	17 58 08	1 00	UK028	705W UXP
HD 19373	44	4.0	03	05	27	+49 25	L 2	2376	L 0	16SEP78	16 35 51	1 55	PSC13	77
HD 19373	44	4.0	03	05	27	+49 25	L 2	2377	L 0	16SEP78	17 29 45	30	PSC13	56
HD 19373	44	4.0	03	05	27	+49 25	L 3	2663	L 0	16SEP78	16 44 58	25 00	PSC13	84
HD 19445	41	8.1	03	05	29	+26 09	L 2	2378	S C	16SEP78	19 23 31	10 00	PSC13	56
HD 19445	41	8.1	03	05	29	+26 09	L 2	2378	L 0	16SEP78	19 05 46	10 00	PSC13	78
HD 19445	41	8.1	03	05	29	+26 09	L 3	2664	L 0	16SEP78	19 40 59	40 00	PSC13	50
NGC 1275	84	12.5	03	16	30	+41 20	L 2	1283	L 0	06APR78	05 42 21	120 00	UKPHP	WEAK MAXDN=100
NGC 1275	84	12.5	03	16	30	+41 20	L 2	4033	L 0	16MAR79	05 03 43	150 00	UK138	35
NGC 1275	84	12.5	03	16	30	+41 20	L 3	4658	L 0	16MAR79	07 37 11	250 00	UK138	34
HD 20630	44	4.8	03	16	44	+03 11	H 2	1789	S C	07JUL78	02 48 24	70 00	MR003	GOOD
HD 20630	44	4.8	03	16	44	+03 11	L 3	1926	S C	07JUL78	04 06 03	35 00	MR003	UNDEREXPOSED
HD 20902	41	1.8	03	20	42	+49 41	L 2	2481	L 0	27SEP78	21 52 26	1 00	UK001	80
HD 20902	41	1.8	03	20	42	+49 41	L 3	2788	L 0	27SEP78	17 01 45	30 00	UK001	70
HD 20902	41	1.8	03	20	42	+49 41	L 3	2789	L 0	27SEP78	18 24 44	120 00	UK001	80
HD 20902	41	1.8	03	20	42	+49 41	L 3	2790	L 0	27SEP78	21 12 19	2 00	UK001	50
HD 20902	41	1.8	03	20	42	+49 41	H 3	2791	L 0	27SEP78	22 17 10	90 00	UK001	70
HD 21278	21	5.0	03	24	29	+48 53	H 2	2525	S C	02OCT78	14 51 25	4 00	RD016	50
HD 21278	21	5.0	03	24	29	+48 53	H 3	2835	S C	02OCT78	14 38 03	7 00	RD016	50
HD 21278	21	5.0	03	24	29	+48 53	H 3	2836	S C	02OCT78	15 27 44	15 00	RD016	80
HD 21278	21	5.0	03	24	29	+48 53	H 3	2838	S C	02OCT78	19 15 29	11 00	RD016	70
HD 21364	26	3.0	03	24	37	+09 34	H 2	2337	S C	12SEP78	21 44 00	4 00	UK027	60
HD 21364	26	3.0	03	24	37	+09 34	H 3	2638	S C	12SEP78	22 24 00	5 00	UK027	70
HD 21291	25	4.2												

OBJECT	CL	MAG	RT ASCN			DECLN		DISP +CAM	APER IMAGE OR LG		DATE	START			LENGTH MIN SC	PRG	COMMENT			
			HR	MM	SC	DEG	NN		HR	MM		SC								
HD 21389	32	4.6	03	25	54	+58	42	H	3	3332	B	C	13NOV78	16	00	50	200	00	FP047	70
HD 21389	32	4.6	03	25	54	+58	42	H	3	4234	L	O	12FEB79	07	04	45	180	00	UK021	700K NEAR 1450A
HD 21389	32	4.5	03	25	54	+58	42	H	3	4462	L	O	03MAR79	08	39	54	180	00	FM050	70
HD 22192	21	4.2	03	32	55	+48	01	H	2	2557	B	C	08OCT78	19	40	00	4	52	LHA07	30
HD 22192	21	4.2	03	32	55	+48	01	H	2	2558	B	C	08OCT78	21	20	00	10	00	LHA07	70
HD 22192	21	4.2	03	32	55	+48	01	H	3	2888	B	C	08OCT78	19	28	00	5	30	LHA07	20
HD 22192	21	4.2	03	32	55	+48	01	H	3	2889	B	C	08OCT78	21	00	00	10	00	LHA07	70
HD 22192	26	4.2	03	32	56	+48	02	H	2	216A	B	C	24AUG78	20	02	00	4	00	UK031	60
HD 22192	26	4.3	03	32	56	+48	02	H	2	2124	B	C	11SEP78	18	45	00	5	00	UK027	55
HD 22192	26	4.2	03	32	56	+48	02	H	2	3960	L	O	09MAR79	08	24	51	2	10	LHA07	70
HD 22192	26	4.2	03	32	56	+48	02	H	3	2391	B	C	24AUG78	19	50	00	5	00	UK031	60
HD 22192	26	4.3	03	32	56	+48	02	H	3	262A	B	C	11SEP78	19	29	00	6	00	UK027	66
HD 22192	26	4.2	03	32	56	+48	02	H	3	4558	L	O	09MAR79	08	32	05	2	10	LHA07	55
HD 2292A	24	3.1	03	39	18	+47	38	H	2	2325	B	C	11SEP78	21	46	00	1	20	UK027	66
HD 2292A	24	3.1	03	39	18	+47	38	H	3	2629	B	C	11SEP78	22	19	00	1	45	UK027	66
HD 2292A	24	3.0	03	39	24	+47	38	H	2	2260	B	C	03SEP78	18	37	10	1	10	UK022	50
HD 2292A	24	3.0	03	39	24	+47	38	H	3	2466	B	C	03SEP78	19	09	00	1	25	UK022	70
HD 2292A	24	3.0	03	39	24	+47	38	H	3	2467	B	C	03SEP78	19	56	00	2	33	UK022	700K FOR 8M
HD 23302	26	3.0	03	41	54	+23	57	H	2	233A	B	C	12SEP78	22	58	59	1	00	UK027	40
HD 23302	26	3.0	03	41	54	+23	57	H	3	2639	B	C	12SEP78	21	43	00	1	45	UK027	40
HD 23324	22	5.6	03	42	11	+24	41	L	2	335A	B	C	31DEC78	12	56	36	35		MG012	70
HD 23324	22	5.6	03	42	11	+24	41	L	2	335B	L	O	31DEC78	12	53	09	8		MG012	60
HD 23324	22	5.6	03	42	11	+24	41	L	3	3760	L	O	31DEC78	13	04	18	9		MG012	50
HD 23324	22	5.6	03	42	11	+24	41	L	3	3760	B	C	31DEC78	13	00	26	17		MG012	50
HD 2333A	22	4.3	03	42	14	+24	19	L	2	3360	L	O	02JAN79	12	03	03	2		MG012	50
HD 2333A	22	4.3	03	42	14	+24	19	L	2	3360	B	C	02JAN79	11	59	37	6		MG012	70
HD 2333A	22	4.3	03	42	14	+24	19	L	3	3782	B	C	02JAN79	12	10	39	3		MG012	50
HD 2333A	22	4.3	03	42	14	+24	19	L	3	3782	L	O	02JAN79	12	06	21	2		MG012	50
HD 2340A	25	3.9	03	42	51	+24	13	L	2	3361	L	O	02JAN79	13	38	42	2		MG012	50
HD 2340A	25	3.9	03	42	51	+24	13	L	2	3361	B	C	02JAN79	13	25	15	6		MG012	70
HD 2340A	25	3.9	03	42	51	+24	13	L	3	3783	B	C	02JAN79	13	41	20	3		MG012	50
HD 2340A	25	3.9	03	42	51	+24	13	L	3	3783	L	O	02JAN79	13	42	10	1		MG012	50
HD 23432	22	5.7	03	42	56	+24	24	L	2	3362	L	O	02JAN79	15	20	28	9		MG012	60
HD 23432	22	5.7	03	42	56	+24	24	L	2	3362	B	C	02JAN79	15	15	44	35		MG012	70
HD 23432	22	5.7	03	42	56	+24	24	L	3	3784	B	C	02JAN79	15	28	24	10		MG012	50
HD 23432	22	5.7	03	42	56	+24	24	L	3	3784	L	O	02JAN79	15	24	05	10		MG012	50
HD 23480	25	4.2	03	43	21	+23	48	L	2	3359	L	O	02JAN79	10	28	58	2		MG012	50
HD 23480	25	4.2	03	43	21	+23	48	L	2	3359	B	C	02JAN79	10	22	48	8		MG012	70
HD 23480	25	4.2	03	43	21	+23	48	L	3	3781	B	C	02JAN79	10	40	15	8		MG012	50
HD 23480	25	4.2	03	43	21	+23	48	L	3	3781	L	O	02JAN79	10	36	30	3		MG012	50
HD 23817	46	3.9	03	43	34	-64	58	H	2	3783	L	O	07FEB79	12	14	47	30	00	BH053	32
HD 2356A	22	6.8	03	44	01	+24	22	L	2	3337	B	C	31DEC78	11	29	44	2	30	MG012	70
HD 2356A	22	6.8	03	44	01	+24	22	L	2	3337	L	O	31DEC78	11	21	22	40		MG012	60
HD 2356A	22	6.8	03	44	01	+24	22	L	3	3759	L	O	31DEC78	12	05	07	15		MG012	30
HD 2356A	22	6.8	03	44	01	+24	22	L	3	3759	B	C	31DEC78	12	01	07	1	00	MG012	40
HD 2356A	22	6.8	03	44	01	+24	22	L	3	3761	B	C	31DEC78	14	09	53	1	24	MG012	50
HD 2356A	22	6.8	03	44	01	+24	22	L	3	3761	L	O	31DEC78	14	05	55	36		MG012	40
HD 23630	25	2.9	03	44	30	+23	57	H	2	3381	B	O	04JAN79	11	57	49	53		AR020	40
HD 23630	25	2.9	03	44	30	+23	57	L	2	3382	B	O	04JAN79	13	00	00	3		AR020	80
HD 23630	25	2.9	03	44	30	+23	57	L	2	3382	L	O	04JAN79	12	57	53	1		AR020	60
HD 23630	24	2.9	03	44	30	+23	57	H	3	3801	B	O	04JAN79	12	01	41	1	37	AR020	50
HD 23630	24	2.9	03	44	31	+23	57	L	2	3339	L	O	31DEC78	15	03	14	1		MG012	60
HD 23630	24	2.9	03	44	31	+23	57	L	2	3339	B	C	31DEC78	14	59	54	3		MG012	70
HD 23630	24	2.9	03	44	31	+23	57	L	3	3762	B	C	31DEC78	15	09	49	2		MG012	50
HD 23630	24	2.9	03	44	31	+23	57	L	3	3762	L	O	31DEC78	15	06	26	1		MG012	50
HD 23850	24	3.6	03	46	11	+23	54	L	2	3340	L	O	31DEC78	16	21	17	1		MG012	59
HD 23850	24	3.6	03	46	11	+23	54	L	2	3340	B	C	31DEC78	16	17	13	5		MG012	70
HD 23850	24	3.6	03	46	11	+23	54	L	3	3763	B	C	31DEC78	16	27	38	3		MG012	50
HD 23850	24	3.6	03	46	11	+23	54	L	3	3763	L	O	31DEC78	16	24	18	2		MG012	50
HD 23862	27	5.1	03	46	13	+23	59	L	2	3341	L	O	31DEC78	17	00	08	4		MG012	40
HD 23862	27	5.1	03	46	13	+23	59	L	2	3341	B	C	31DEC78	17	00	38	20		MG012	60
HD 23862	27	5.1	03	46	13	+23	59	L	3	3780	B	C	02JAN79	09	39	09	10		MG012	40
HD 23862	27	5.1	03	46	13	+23	59	L	3	3780	L	O	02JAN79	09	35	13	5		MG012	30
HD 2439B	23	2.9	03	50	59	+31	44	H	3	3996	B	C	23JAN79	08	39	06	3	00	UK038	70GOOD AT 1500A
HD 2453A	59	6.1	03	52	15	+30	54	H	2	1830	B	O	16JUL78	02	34	52	20	00	XH002	GOOD AT LONG WL
HD 2453A	14	6.1	03	52	15	+30	54	L	2	3122	L	O	07DEC78	16	28	10	10		HM043	40
HD 2453A	14	6.1	03	52	15	+30	54	H	2	3123	B	O	07DEC78	17	02	13	20	00	HM043	40
HD 2453A	59	6.1	03	52	15	+30	54	L	2	4027	B	C	15MAR79	06	42	0A	18		GH141	50
HD 2453A	59	6.1	03	52	15	+30	54	L	2	4027	L	O	15MAR79	06	38	24	15		GH141	60
HD 2453A	14	6.5	03	52	15	+30	54	H	3	1309	B	C	04APR78	05	34	17	60	00	UKPOP	
HD 2453A	59	6.1	03	52	15	+30	54	H	3	2021	B	C	16JUL78	03	23	19	20	00	XPR02	UXP X1.5 MAX DN 160
HD 2453A	14	6.1	03	52	15	+30	54	H	3	2978	B	C	14OCT78	20	28	15	15	00	PB042	30X PER
HD 2453A	14	6.1	03	52	15	+30	54	L	3	2979	L	O	14OCT78	21	35	12	6		PB042	30
HD 2453A	14	6.1	03	52	15	+30	54	L	3	2979	B	C	14OCT78	21	31	00	18		PB042	30
HD 2453A	14	6.1	03	52	15	+30	54	H	3	3551	B	C	07DEC78	16	32	28	26	00	HM043	40
HD 2453A	14	6.1	03	52	15	+30	54	L	3	3552	L	O	07DEC78	17	29	24	6		HM043	30
HD 2453A	59	6.1	03	52	15	+30	54	H	3	4630	B	C	15MAR79	04	58	13	40	00	GH141	50
HD 2453A	59	6.1	03	52</																

OBJECT	CL	MAG	HT ASCN			DFCLN		DISP +CAM	APERT		DATE	START			LENGTH MIN SC	PRG	COMMENT			
			HR	MN	SC	DEG	NN		DR	LG		HR	MN	SC						
HD 26676	22	6.2	04	10	51	+10	06	L	3	3985	L	0	22JAN79	15	21	30	36	UKFIL	60	
HD 26676	22	6.2	04	10	51	+10	06	L	3	3985	S	0	22JAN79	15	17	39	36	UKFIL	50	
HD 27396	21	4.9	04	17	56	+46	23	H	2	3379	S	C	04JAN79	08	54	01	4	22	AR020	50
HD 27396	21	4.9	04	17	56	+46	23	L	2	3380	S	C	04JAN79	10	24	08	5		AR020	50
HD 27396	21	4.9	04	17	56	+46	23	L	2	3380	L	0	04JAN79	10	21	08	3		AR020	50
HD 27396	21	4.9	04	17	56	+46	23	H	3	3799	S	C	04JAN79	09	51	06	5	40	AR020	50
HD 27396	21	4.9	04	17	56	+46	23	L	3	3800	S	C	04JAN79	11	01	19	4		AR020	40
HD 27396	21	4.9	04	17	56	+46	23	L	3	3800	L	0	04JAN79	10	59	19	2		AR020	40
T TAURI	58	9.6	04	19	04	+19	25	L	2	1278	S	C	04APR78	08	04	49	60	00	UKPOP	
T TAURI	58	9.6	04	19	04	+19	25	L	3	1310	S	C	04APR78	10	01	39	15	00	UKPOP	NO DATA PRESENT
T TAURI	58	9.6	04	19	04	+19	25	L	3	3172	L	0	27OCT78	19	35	49	120	00	UK044	23MICROPHONIC NOISE
HD 27819	31	4.8	04	21	13	+17	20	L	3	4446	L	0	01MAR79	09	25	40	32	00	RB041	80
HD 27819	31	4.8	04	21	13	+17	20	L	3	4446	S	C	01MAR79	09	13	30	6	00	RB041	70
HD 28497	20	5.4	04	26	48	-13	10	H	2	2726	S	C	26OCT78	15	37	14	6	30	PSD13	50
HD 28497	20	5.4	04	26	48	-13	10	H	3	3161	S	C	26OCT78	16	00	00	4	30	PSD13	40
HD 28446	20	5.4	04	26	48	+53	48	H	3	4001	S	C	23JAN79	14	02	00	20	00	UK036	70GOOD AT 1500A
HD 29139	46	0.9	04	33	03	+16	24	H	2	2154	S	C	23AUG78	00	25	26	30	00	UK031	37MGII BAT. OTHERS NOT
HD 29139	46	.9	04	33	03	+16	25	L	2	2519	L	0	01OCT78	15	07	00	10	00	UK001	80LW BAT
HD 29139	46	.9	04	33	03	+16	24	H	2	2965	S	C	18NOV78	12	49	00	25	00	CR031	17
HD 29139	46	.9	04	33	03	+16	24	H	2	2966	L	0	18NOV78	15	02	18	5	00	CR031	16
HD 29139	46	.9	04	33	03	+16	24	H	2	3176	S	C	15OCT78	16	01	48	8	00	CR031	25
HD 29139	46	0.9	04	33	03	+16	25	H	2	3465	S	C	12JAN79	08	22	43	8	00	CR031	05
HD 29139	46	0.9	04	33	03	+16	24	L	3	2370	S	C	23AUG78	01	05	02	35	00	UK011	37CONT 25 DN ABOVE BGD
HD 29139	46	.9	04	33	03	+16	25	L	3	2805	L	0	29SEP78	19	54	42	10	00	UK001	770ATA LOST
HD 29139	46	.8	04	33	03	+16	25	L	3	2825	L	0	01OCT78	15	24	07	40	00	UK001	86
HD 29139	46	.9	04	33	03	+16	24	H	3	3380	L	0	18NOV78	13	27	00	140	00	CR031	13
HD 29139	46	0.9	04	33	03	+16	25	H	3	3895	S	C	12JAN79	08	42	51	30	00	CR031	03
HD 29139	46	0.8	04	33	03	+16	25	L	3	4032	L	0	25JAN79	12	46	03	90	00	UK001	37NI BAT
HD 29139	46	0.8	04	33	03	+16	25	L	3	4053	L	0	27JAN79	08	31	17	150	00	UK001	56
HD 29763	21	4.3	04	39	14	+22	52	H	2	2336	S	C	12SEP78	20	09	28	3	00	UK027	40
HD 29763	21	4.3	04	39	14	+22	52	H	3	2637	S	C	12SEP78	20	43	20	3	00	UK027	50
HD 30836	23	3.7	04	48	31	+05	31	H	2	2141	S	C	22AUG78	01	08	04	1	20	PSD13	70
HD 30836	23	3.7	04	48	31	+05	31	H	3	2350	S	C	22AUG78	00	40	05	1	10	PSD13	50WEAK AT 1550A
HD 30614	13	4.3	04	49	03	+66	15	H	2	3586	S	C	26JAN79	15	25	29	3	10	KH014	60
HD 30614	13	4.3	04	49	03	+66	15	H	3	4044	S	C	26JAN79	15	17	13	3	25	KH014	50
HD 30614	13	4.3	04	49	04	+66	16	H	2	2312	S	C	09SEP78	16	48	09	7	00	FM050	70GOOD FOR 8M
HD 30614	13	4.3	04	49	04	+66	16	H	3	2546	S	C	08SEP78	16	17	39	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2547	S	C	08SEP78	16	49	51	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2548	S	C	08SEP78	17	22	06	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2549	S	C	08SEP78	17	52	18	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2550	S	C	08SEP78	18	23	12	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2551	S	C	08SEP78	18	53	47	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2552	S	C	08SEP78	19	25	38	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2553	S	C	08SEP78	19	56	37	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2554	S	C	08SEP78	20	27	22	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2555	S	C	08SEP78	20	59	55	3	00	FM050	50ONLY PART IMAGE ARCH.
HD 30614	13	4.3	04	49	04	+66	16	H	3	2556	S	C	08SEP78	21	37	25	3	00	FM050	50

OBJECT	CL	MAG	HT ASCN			DFCLN		DISP +CAM	APERT		DATE	START			LENGTH MIN SC	PRG	COMMENT			
			HR	MN	SC	DEG	NN		DR	LG		HR	MN	SC						
HD 30614	13	4.3	04	49	04	+66	16	H	3	2557	S	C	08SEP78	22	12	38	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2558	S	C	08SEP78	23	02	00	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2559	S	C	08SEP78	23	38	34	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2581	S	C	09SEP78	16	15	55	3	00	FM050	50NOISY IMAGE
HD 30614	13	4.3	04	49	04	+66	16	H	3	2584	S	C	09SEP78	20	15	15	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2585	S	C	09SEP78	20	40	04	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2611	S	C	10SEP78	15	46	10	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2614	S	C	10SEP78	18	24	52	3	00	FM050	40
HD 30614	13	4.3	04	49	04	+66	16	H	3	2615	S	C	10SEP78	18	57	09	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2618	S	C	10SEP78	21	17	22	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	16	H	3	2619	S	C	10SEP78	21	50	43	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	15	H	3	2944	S	C	12OCT78	18	48	50	3	00	FM050	50
HD 30614	13	4.3	04	49	04	+66	15	H	3	4473	S	C	04MAR79	09	39	01	3	00	FM050	55
HD 31293	26	7.2	04	52	34	+30	28	H	3	3682	L	0	23DEC78	14	07	24	220	00	HM051	67
HD 31726	20	6.1	04	55	27	-14	18	L	2	2945	L	0	25SEP78	23	15	00	3		PR030	60
HD 31726	20	6.1	04	55	27	-14	18	L	3	2764	L	0	25SEP78	23	20	00	2		PR030	30
HD 31726	20	6.1	04	55	27	-14	18	L	3	3445	L	0	25NOV78	13	30	59	3		PR029	60
HD 31726	20	6.1	04	55	27	-14	18	L	3	3445	S	C	25NOV78	13	26	42	3		PR029	60
HD 31964	33	3.0	04	58	22	+43	45	H	2	1339	S	C	19APR78	05	15	00	60	00	HM022	4 BIT OXPITRACE PREV IMG
HD 31964	33	3.0	04	58	22	+43	45	L	3	1384	S	C	19APR78	04	15	00	30	00	HM022	GOOD=UNDER 1600-2000
HD 31964	33	3.0	04	58	23	+43	45	H	2	2585	S	C	12OCT78	19	23	33	30	00	FM050	60
HD 31964	33	3.0	04	58	23	+43	45	H	2	3924	L	0	04MAR79	08	29	38	25	00	FM050	77
HD 32633	36	7.1	05	02	51	+33	51	H	2	2895	S	C	09NOV78	16	28	58	60	00	HM021	60
HD 32633	36	7.1	05	02	51	+33	51	L	2	2896	S	C	09NOV78	18	48	57	3	00	HM021	70
HD 32633	36	7.1	05	02	51	+33	51	H	3	3284	S	C	09NOV78	17	33	50	70	00	HM021	50
HD 32633	36	7.1	05	02	51	+33	51	L	3	3285	L	0	09NOV78	19	44	06	2	00	HM021	70
HD 32633	36	7.1	05	02	51	+33	51	L	3	3285	S	C	09NOV78	19	35	30	4	30	HM021	80
FD 12	11	12.8	05	03	12	-66	45	L	2	3841	L	0	2							

OBJECT	CL	MAG	RT	ASCN	DECLN	DISP	APERT	START	LENGTH	PROG	COMMENT			
			HR	MN	SC	DEG	MIN	HR	MIN	SC				
HD 34364	36	5.8	05	15	06	+33 42	H 2	2500	8 C	11OCT78	20 23 53	22 00	UK025	40
HD 34364	36	5.8	05	15	06	+33 42	H 3	2923	8 C	11OCT78	21 14 41	25 00	UK025	40
HD 34503	24	3.7	05	15	11	+06 54	H 2	3404	8 C	06JAN79	12 06 48	1 17	AR020	30
HD 34503	24	3.7	05	15	11	+06 54	L 2	3405	8 O	06JAN79	13 27 59	2	AR020	40
HD 34503	24	3.7	05	15	11	+06 54	L 2	3405	L O	06JAN79	13 24 35	1	AR020	50
HD 34503	24	3.7	05	15	11	+06 54	H 3	3825	8 C	06JAN79	12 02 30	1 49	AR020	40
HD 34503	24	3.7	05	15	11	+06 54	L 3	3826	L O	06JAN79	13 07 49	2	AR020	60
HD 34503	24	3.7	05	15	11	+06 54	L 3	3826	8 C	06JAN79	12 57 22	2	AR020	40
HD280777	16	9.0	05	15	12	+37 42	L 3	4079	8 C	29JAN79	08 32 27	2 20	UK036	34
HD280777	16	9.0	05	15	12	+37 42	L 3	4079	8 C	29JAN79	08 25 39	1 30	UK036	34
HD 34656	12	6.8	05	17	19	+37 23	L 2	2470	8 O	26SEP78	22 06 00	30	PR030	700K AT 2200
HD 34656	12	6.8	05	17	19	+37 23	L 3	2776	8 C	26SEP78	21 30 47	10	PR030	30
HD 35343	32	9.2	05	18	36	-69 18	L 2	1659	L O	12JUN78	09 48 00	20 00	BW019	OVEREXPOSED AT LONGWL
HD 35343	32	9.2	05	18	36	-69 18	L 3	1764	L O	12JUN78	01 15 20	20 00	BW019	NEAR SPECTRUM SPLIT
S-69 108	23	12.1	05	20	22	+69 56	L 2	1726	L O	25JUN78	01 23 00	45 00	UK024	GOOD MAX DN 200
S-69 108	23	12.1	05	20	22	+69 56	L 2	1727	L O	25JUN78	04 02 07	90 00	UK024	GOOD BUT SOME SAT
S-69 108	23	12.1	05	20	22	+69 56	L 3	1853	L O	25JUN78	02 28 34	80 00	UK024	WEAK MAX DN 100
S-67 111	23	12.6	05	20	58	+67 32	L 2	1710	8 C	22JUN78	02 38 00	20 00	UK024	GOOD MAX DN 175
S-67 111	23	12.6	05	20	58	+67 32	L 2	1711	8 C	22JUN78	04 05 00	35 00	UK024	GOOD MAX DN 190
S-67 111	23	12.6	05	20	58	+67 32	L 3	1829	8 C	22JUN78	03 33 00	20 00	UK024	GOOD MAX DN 150
IC 418	70	9.6	05	25	09	-12 44	L 2	3390	8 O	05JAN79	09 17 35	4 00	UK007	52
IC 418	70	9.6	05	25	09	-12 44	L 2	3390	L O	05JAN79	09 11 39	1 00	UK007	43
IC 418	70	9.6	05	25	09	-12 44	L 2	3391	L O	05JAN79	10 16 03	3 00	UK007	65
IC 418	70	9.6	05	25	09	-12 44	L 3	3810	L O	05JAN79	09 35 51	2 00	UK007	55
IC 418	70	9.6	05	25	09	-12 44	L 3	3810	8 O	05JAN79	09 25 49	6 00	UK007	55
+34 1059	20	9.2	05	25	22	+34 58	L 2	2469	8 C	26SEP78	19 12 54	13 00	PR030	700K AT 2200
+34 1059	20	9.2	05	25	22	+34 58	L 3	2774	8 C	26SEP78	18 43 53	4 00	PR030	50
N 49	75	14.0	05	26	00	+66 08	L 3	1861	L O	26JUN78	23 25 00	360 00	BW033	ALMOST NOTHING
N 49	75	14.0	05	26	00	+66 08	L 3	2115	L O	26JUL78	21 14 21	385 00	BW033	OK
GW ORI	58	10.1	05	26	20	+11 50	L 2	2744	L O	28OCT78	19 22 51	142 00	UK044	77
GW ORI	58	10.1	05	26	20	+11 50	L 3	3180	L O	28OCT78	18 16 39	60 00	UK044	11
S-67 108	23	12.5	05	26	33	+67 40	L 2	1594	8 C	02JUN78	04 36 40	20 00	UKPOP	VERY GOOD
S-67 108	23	12.5	05	26	33	+67 40	L 3	1620	8 C	24MAY78	07 18 00	25 00	UKPOP	NO SPECTRUM
S-67 108	23	12.5	05	26	33	+67 40	L 3	1690	8 C	02JUN78	05 19 25	20 00	UKPOP	PERFECT
S-67 114	23	12.1	05	27	14	+67 29	L 2	1721	L O	24JUN78	02 03 00	55 00	UK024	OK
S-67 114	23	12.1	05	27	14	+67 29	L 3	1845	L O	24JUN78	03 15 47	131 00	UK024	GOOD BUT SOME SAT
HD 36166	20	5.8	05	27	19	+01 45	H 3	3538	8 C	05DEC78	17 19 02	4 30	PR030	50
+34 1079	20	8.9	05	28	51	+34 54	L 2	1275	8 C	03APR78	09 04 38	20	PR030	50
+34 1079	20	8.9	05	28	51	+34 54	L 3	2775	8 C	26SEP78	20 26 06	2 30	PR030	50
HD 36486	13	2.2	05	29	27	-00 20	H 2	3570	8 C	24JAN79	14 20 00	11	KH014	60
HD 36486	13	2.2	05	29	27	-00 20	H 3	4018	8 C	24JAN79	13 40 00	11	KH014	60
HD 36371	24	4.8	05	29	28	+32 09	H 2	2586	8 C	12OCT78	21 07 20	25 00	FM050	70
HD 36371	24	4.8	05	29	28	+32 09	H 3	2945	8 C	12OCT78	20 26 56	33 00	FM050	60
HD 36486	13	2.2	05	29	28	-00 20	H 2	2241	8 C	01SEP78	22 56 30	20	UK022	70
HD 36486	13	2.2	05	29	28	-00 20	H 2	2242	8 C	01SEP78	23 40 00	10	UK022	50
HD 36486	13	2.2	05	29	28	-00 20	H 3	2436	8 C	01SEP78	22 56 30	12	UK022	70GOOD FOR 8W
HD 36512	20	4.6	05	29	31	-07 20	L 2	2468	8 C	26SEP78	17 32 00	1	PR030	50
HD 36512	20	4.6	05	29	31	-07 20	L 2	3559	8 C	23JAN79	09 42 09	1 15	UK038	60

OBJECT	CL	MAG	RT	ASCN	DECLN	DISP	APERT	START	LENGTH	PROG	COMMENT			
			HR	MN	SC	DEG	MIN	HR	MIN	SC				
HD 36512	20	4.6	05	29	31	-07 20	L 3	2773	8 C	26SEP78	16 43 43	1	PR030	60
HD 36512	20	4.6	05	29	31	-07 20	H 3	3997	8 C	23JAN79	09 36 17	1 15	UK038	70
FD 37	10	14.4	05	30	18	+67 28	L 2	3841	L O	24FEB79	11 34 30	44 00	UK024	56
FD 37	10	14.4	05	30	18	+67 28	L 3	4366	L O	24FEB79	10 59 37	29 00	UK024	46
HD 36665	26	8.0	05	31	30	+28 01	H 2	3490	L O	14JAN79	13 34 44	40 00	UK068	40
HD 36665	26	8.0	05	31	30	+28 01	H 3	3917	L O	14JAN79	10 25 16	180 00	UK068	50
P0531+21	62	16.0	05	31	31	+21 59	L 2	3736	L O	11FEB79	07 30 13	375 00	VILSP	30
P0531+21	62	16.0	05	31	31	+21 59	L 3	4225	L O	11FEB79	07 52 03	180 00	VILSP	11
P0531+21	62	16.0	05	31	31	+21 59	L 3	4226	L O	11FEB79	11 18 17	120 00	VILSP	11
M 42	72	10.0	05	32	00	-05 25	L 2	2680	8 O	22OCT78	15 57 57	15 00	MP028	20OFFSET 34 SEC W THEIC
M 42	72	10.0	05	32	00	-05 25	L 2	2680	L O	22OCT78	15 57 57	15 00	MP028	50OFFSET 34 SEC W THEIC
HD 37022	12	5.1	05	32	00	-05 25	L 2	2681	L O	22OCT78	17 40 00	3	MP028	70
HD 37022	12	5.1	05	32	00	-05 25	L 2	2681	8 C	22OCT78	17 34 55	3	MP028	50
M 42	72	10.0	05	32	00	-05 25	L 3	3101	L O	22OCT78	14 47 31	25 00	MP028	80OFFSET 34 SEC W THEIC
M 42	72	10.0	05	32	00	-05 25	L 3	3101	8 O	22OCT78	14 47 31	25 00	MP028	20OFFSET 34 SEC W THEIC
M 42	72	10.0	05	32	00	-05 25	L 3	3102	8 O	22OCT78	15 39 00	11 00	MP028	20OFFSET 34 SEC W THEIC
M 42	72	10.0	05	32	00	-05 25	L 3	3102	L O	22OCT78	15 39 00	11 00	MP028	55OFFSET 34 SEC W THEIC
HD 37022	12	5.1	05	32	00	-05 25	L 3	3103	8 C	22OCT78	16 55 36	2	MP028	70
HD 37022	12	5.1	05	32	00	-05 25	L 3	3103	8 C	22OCT78	16 55 36	2	MP028	50
R 116	23	10.5	05	32	06	+68 35	L 2	1757	L O	01JUL78	03 45 51	6 00	BW019	A BIT STRONG
R 116	23	10.5	05	32	06	+68 35	L 3	1893	L O	01JUL78	04 00 17	11 00	BW019	GOOD
HD269696	16	11.1	05	32	08	+69 55	L 2	3309	8 C	28DEC78	11 08 11	4 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3309	L O	28DEC78	10 59 13	2 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3310	8 C	28DEC78	12 31 57	4 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3310	L O	28DEC78	12 24 28	2 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3311	8 C	28DEC78	13 24 49	4 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3311	L O	28DEC78	13 17 07	2 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3312	8 C	28DEC78	14 48 44	4 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3312	L O	28DEC78	14 22 20	2 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3313	8 C	28DEC78	15 42 00	4 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3313	L O	28DEC78	15 32 51	2 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3314	8 C	28DEC78	16 34 42	4 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3315	8 C	28DEC78	17 24 41	4 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	L 2	3315	L O	28DEC78	17 18 09	2 00	UK017	50
HD269696	16	11.1	05	32	08	+69 55	H 2	3327	L O	30DEC78	11 24 50	200 00	UK017	60SEVEN EXPOSURES ADDED
HD269696	16	11.1	05	32	08	+69 55	L 3	3720	L O	28DEC78	11 29 05	2 30	UK017	70
HD269696	16	11.1	05	32	08	+69 55	L 3	3720	8 C	28DEC78	11 18 33	5 00	UK017	708W SAT
HD269696	16	11.1	05	32	08	+69 55	H 3	3729	L O	28DEC78	12 43 13	178 00	UK017	60SEVEN EXPOSURES ADDED
HD269696	16	11.1	05	32	08	+69 55	L 3	3743	8 C	30DEC78	11 14 28	3 30	UK017	40
HD269696	16	11.1	05	32	08	+69 55	L 3	3743	L O	30DEC78	11 00			

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLN DFG HN	DIBP +CAH	IMAGE	APER OR LG	DATE	START HR MN SC	LENGTH MIN SC	PROG	COMMENT
HD269696	16	11.1	05 32 08	-69 55	L 3	3748	B C	30DEC78	15 09 10	3 00	UK017	50
HD269696	16	11.1	05 32 08	-69 55	L 3	3748	L O	30DEC78	15 00 09	1 15	UK017	50
HD269696	16	11.1	05 32 08	-69 55	L 3	3749	B C	30DEC78	15 52 26	3 00	UK017	50
HD269696	16	11.1	05 32 08	-69 55	L 3	3749	L O	30DEC78	15 45 31	1 15	UK017	50
HD269696	16	11.1	05 32 08	-69 55	L 3	3750	B C	30DEC78	17 02 56	3 00	UK017	50
HD269696	16	11.1	05 32 08	-69 55	L 3	3750	L O	30DEC78	16 56 23	1 15	UK017	50
HD269696	16	11.1	05 32 08	-69 55	L 3	3751	B C	30DEC78	17 40 47	1 15	UK017	50
HD269696	16	11.1	05 32 08	-69 55	L 3	3751	L O	30DEC78	17 31 33	3 00	UK017	50
HD 36861	12	3.6	05 32 23	+09 54	H 2	3583	B C	26JAN79	12 24 01	44	KH014	60
HD 36861	12	3.6	05 32 23	+09 54	H 3	4042	B C	26JAN79	11 58 01	36	KH014	60
LMC-X4	59	13.8	05 32 47	-66 24	L 3	2019	L O	15JUL78	22 00 28	60 00	UK1XR	NO SPECTRUM
LMC X4	59	13.8	05 32 48	-66 24	L 2	1427	L O	02MAY78	03 03 12	100 00	UK1XR	SLIGHTLY UNDEREXP WRONG
LMC X4	59	13.8	05 32 48	-66 24	L 2	1438	L O	04MAY78	06 25 32	60 00	UK1XR	GOOD
LMC X4	59	13.8	05 32 48	-66 24	L 3	1458	L O	02MAY78	01 50 30	60 00	UK1XR	UNDEREXP WRONG STAR
LMC X4	59	13.8	05 32 48	-66 24	L 3	1459	L O	02MAY78	04 56 23	150 00	UK1XR	1600A UNDEREXP WRONG ST
LMC X4	59	13.8	05 32 48	-66 24	L 3	1477	L O	04MAY78	05 11 51	60 00	UK1XR	GOOD
HD 37023	20	6.8	05 32 50	-05 25	H 2	1331	B C	18APR78	08 42 00	15 00	UKPOP	
HD 37023	20	6.8	05 32 50	-05 25	H 5	1380	B C	18APR78	09 55 00	15 00	UKPOP	OVEREXP.
HD 37041	13	5.2	05 32 55	-05 37	H 3	1345	B C	20APR78	04 10 00	5 00	UKPOP	UNDEREXP.
HD 37041	13	5.2	05 32 55	-05 37	H 3	1391	B C	20APR78	04 00 00	3 00	UKPOP	VERY GOOD THETA2 ORC
HD 37041	12	5.0	05 32 55	-05 26	H 2	2602	B C	14OCT78	18 04 10	4 00	PH042	70NOISE
HD 37041	12	5.0	05 32 55	-05 26	H 2	2603	B C	14OCT78	18 43 00	2 00	PH042	40
HD 37041	12	5.1	05 32 55	-05 27	H 2	2728	B C	26OCT78	19 20 00	3 00	PH042	11
HD 37041	12	5.1	05 32 55	-05 26	H 2	3318	B C	29OCT78	10 47 25	3 00	FC027	60
HD 37041	12	5.0	05 32 55	-05 26	H 3	2976	B C	14OCT78	17 53 04	3 00	PH042	70
HD 37041	12	5.0	05 32 55	-05 26	H 3	2977	B C	14OCT78	19 30 00	2 00	PH042	50
HD 37041	12	5.1	05 32 55	-05 27	H 3	3163	B C	26OCT78	19 34 00	2 00	PH042	11
HD 37041	12	5.1	05 32 55	-05 26	H 3	3735	B C	29OCT78	10 54 43	2 00	FC027	50
M 42	72	10.0	05 33 00	-05 27	L 2	2682	B O	22OCT78	18 46 58	15 00	MP028	20OFFSET 39 SEC W THE2A
M 42	72	10.0	05 33 00	-05 27	L 2	2683	L O	22OCT78	20 03 25	3	MP028	50OFFSET 39 SEC W THE2A
HD 37041	12	5.1	05 33 00	-05 27	L 2	2683	B O	22OCT78	20 03 25	3	MP028	70
HD 37041	12	5.1	05 33 00	-05 27	L 2	2683	B O	22OCT78	19 59 21	3	MP028	50
M 42	72	10.0	05 33 00	-05 27	L 3	3104	B O	22OCT78	17 55 43	13 00	MP028	20OFFSET 39 SEC W THE2A
M 42	72	10.0	05 33 00	-05 27	L 3	3104	L O	22OCT78	17 55 43	13 00	MP028	65OFFSET 39 SEC W THE2A
HD 37041	12	5.1	05 33 00	-05 27	L 3	3105	L O	22OCT78	19 54 41	2	MP028	70
HD 37041	12	5.1	05 33 00	-05 27	L 3	3105	B O	22OCT78	17 46 37	2	MP028	50THETA 2 ORIONIS A
HD 37061	20	6.8	05 33 04	-05 18	L 2	2435	L O	22SEP78	18 55 00	3 00	UK019	80
HD 37061	20	6.8	05 33 04	-05 18	L 2	2435	B O	22SEP78	18 46 56	1 00	UK019	70
HD 37061	20	6.8	05 33 04	-05 18	L 3	2732	B C	22SEP78	19 04 09	4 00	UK019	90
HD 3712A	23	1.7	05 33 40	-01 14	H 2	2238	B C	01SEP78	20 32 30	16	UK022	70GOOD FOR 8W
HD 3712A	23	1.7	05 33 40	-01 14	H 2	2239	B C	01SEP78	21 42 40	12	UK022	70
HD 3712A	23	1.7	05 33 40	-01 14	H 2	2240	B C	01SEP78	22 11 20	8	UK022	50
HD 3712A	23	1.7	05 33 40	-01 14	H 3	2435	B C	01SEP78	21 14 22	10	UK022	60
HD 3712A	13	1.7	05 33 41	-01 14	H 2	3119	B C	07DEC78	10 34 06	6	HM043	50
HD 3712A	13	1.7	05 33 41	-01 14	H 3	3536	B C	05DEC78	15 16 34	7	HM043	50
V380 ORI	58	10.5	05 34 00	-06 45	L 2	2742	L O	28OCT78	14 40 26	69 00	UK044	77
V380 ORI	58	10.5	05 34 00	-06 45	L 2	2743	L O	28OCT78	17 12 03	15 00	UK044	55
V380 ORI	58	10.5	05 34 00	-06 45	L 3	3179	L O	26OCT78	16 01 43	60 00	UK044	44

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLN DFG HN	DIBP +CAH	IMAGE	APER OR LG	DATE	START HR MN SC	LENGTH MIN SC	PROG	COMMENT
HD 37202	26	3.0	05 34 39	+21 07	H 2	2139	B C	21AUG78	22 09 21	1 00	PSD13	70SAT 2700 TO 3000A
HD 37202	26	3.0	05 34 39	+21 07	L 2	2140	L U	21AUG78	23 43 20	1	PSD13	70
HD 37202	26	3.0	05 34 39	+21 07	L 2	2140	B C	21AUG78	23 38 12	1	PSD13	70
HD 37202	26	3.0	05 34 39	+21 07	H 2	3084	B C	01DEC78	16 15 00	50	PSD13	70
HD 37202	26	3.0	05 34 39	+21 07	H 2	3085	B C	01DEC78	17 35 38	30	PSD13	50SOME DATA LOST
HD 37202	26	3.0	05 34 39	+21 07	H 3	2356	B C	21AUG78	21 09 53	35	PSD13	50
HD 37202	26	3.0	05 34 39	+21 07	H 3	2357	B C	21AUG78	22 16 13	50	PSD13	70MEAN 100 DN AT 1500A
HD 37202	26	3.0	05 34 39	+21 07	H 3	3506	B C	01DEC78	16 10 06	40	PSD13	50
N 63 A	75	15.0	05 35 44	-66 04	L 3	3490	L O	29NOV78	13 08 00	395 00	BD033	64
HD245770	20	9.4	05 35 44	+26 17	L 2	3321	L O	29DEC78	17 10 38	30 00	FC027	80
HD245770	20	9.4	05 35 44	+26 17	L 3	2854	B C	04OCT78	20 43 00	60 00	PH042	60
HD 37742	13	2.0	05 38 14	-01 58	H 2	3571	B C	24JAN79	15 19 00	9	KH014	50
HD 37742	13	2.0	05 38 14	-01 58	H 3	4019	B C	24JAN79	15 24 00	9	KH014	60
HD 37742	13	2.0	05 38 15	-01 59	H 2	2235	B C	01SEP78	18 26 20	8	UK022	50
HD 37742	13	2.0	05 38 15	-01 59	H 2	2236	B C	01SEP78	19 22 20	15	UK022	60
HD 37742	13	2.0	05 38 15	-01 59	H 2	2237	B C	01SEP78	19 50 33	12	UK022	50
HD 37742	13	2.0	05 38 15	-01 59	H 3	2434	B C	01SEP78	18 54 00	9	UK022	50
HD 37805	31	8.6	05 38 32	-02 20	L 2	2425	L O	21SEP78	18 00 00	2 15	UK019	60
HD 37805	31	8.6	05 38 32	-02 20	L 2	2425	B C	21SEP78	17 45 09	45	UK019	30
HD 37805	31	8.6	05 38 32	-02 20	L 3	2719	B C	21SEP78	17 15 30	1 30	UK019	20
HD 37805	31	8.6	05 38 32	-02 20	L 3	2720	B C	21SEP78	18 38 36	4 00	UK019	70
HD 37805	31	8.6	05 38 32	-02 20	L 3	2720	L O	21SEP78	18 27 40	4 00	UK019	30
S-69 239	23	10.2	05 38 34	-69 08	L 3	1830	L O	22JUN78	05 25 00	12 00	UK024	NO SPECTRUM
HD 38268	11	9.7	05 39 00	-69 08	L 2	3844	B C	24FEB79	13 29 07	1 30	UK024	33
HD 38268	11	9.7	05 39 00	-69 08	L 3	4367	B C	24FEB79	13 25 18	1 12	UK024	33
HD 37903	20	7.8	05 39 07	-02 17	L 2	2436	B O	22SEP78	21 41 48	40	UK019	40
HD 37903	20	7.8	05 39 07	-02 17	L 2	2437	L O	22SEP78	22 22 53	1 30	UK019	60
HD 37903	20	7.8	05 39 07	-02 17	L 2	2437	B C	22SEP78	22 15 50	40	UK019	50
HD 37903	20	7.8	05 39 07	-02 17	L 3	2733	B O	22SEP78	22 52 00	1 00	UK019	50
FD 70	11	11.1	05 39 12	-69 04	L 2	3844	L O	24FEB79	13 11 03	2 48	UK024	34
FD 70	11	11.1	05 39 12	-69 04	L 3	4367	L O	24FEB79	13 06 03	1 48	UK024	34
S-69 247	25	10.4	05 39 19	-69 32	L 2	1720	L O	23JUN78	23 34 04	15 00	UK024	GOOD MAX DN 250
S-69 247	25	10.4	05 39 19	-69 32	L 3	1844	L O	24JUN78	00 27 22	12 00	UK024	WEAK MAX DN 80
S-69 247	25	10.4	05 39 19	-69 32	L 3	1852	L O	25JUN78	00 07 44	30 00	UK024	GOOD MAX DN 200
FU ORI	58	9.0	05 42 38	+09 03	L 2	3933	L O	05MAR79	06 20 41	60 00	UK044	47
FU ORI	58	9.0	05 42 38	+09 03	L 2	3934	L O	05MAR79	08 33 00	15 00	UK044	35
FU ORI	58	9.0	05 42 38	+09 03	L 3	4495	L O	05MAR79	07 28 22	60 00	UK044	10
HD 38666	12	5.2	05 44 08	-32 19	H 2	3581	B C	26JAN79	08 54 21	2 00	KH014	60
HD 38666	12	5.2	05 44 08	-32 19	H 3	4039	B C	26JAN79	08 25 54	2 00	KH014	70
S-67 297	23	12.7	05 44 58	-69 22	L 2	1692	B O	19JUN78	02 46 59	45 00	UK024	NO SPECTRUM
S-67 297	23	12.7	05 44 58	-69 22	L 3	1812	B O	19JUN78	04 00 48	80 00	UK024	NO SPECTRUM
HD 38771	23	2.0	05 45 24	-09 41	H 2	2233	B C	01SEP78	16 17 05	14	UK022	50
HD 38771	23	2.0	05 45 24	-09 41	H 2	2234	B C	01SEP78	17 37 51	30	UK022	70GOOD FOR 8W
HD 38771	23	2.0	05 45 24	-09 41	H 3	2433	B C	01SEP78	17 00 00	15	UK022	50
HD247967	16	9.0	05 46 23	+20 34	L 3	4080	B C	29JAN79	09 41 41	3 25	UK036	50
HD247967	16	9.0	05 46 23	+20 34	L 3	4080	L U	29JAN79	09 49 10	2 20	UK036	50
HD 39801	48	9	05 52 28	+07 24	H 2	2622	B C	16OCT78	16 46 53	6 00	UK020	23
HD 39801	48	9	05									

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLN DEG MN	DISP +CAM	APERT OR LG	DATE	START HR MN SC	LENGTH MIN SC	PROG	COMMENT
HD 39801	48	.9	05 52 28	+07 24	H 2	2624 S C	16OCT78	18 48 00	10 00	UK020	36
HD 39801	48	0.8	05 52 28	+07 24	L 3	1379 S C	18APR78	06 20 00	40 00	UKPIP	GOOD
IC 2149	70	10.5	05 52 41	+46 06	L 2	2604 L O	22OCT78	20 59 01	9 00	MP028	61
IC 2149	70	10.5	05 52 41	+46 06	L 3	3073 L O	20OCT78	14 54 14	30 00	MP028	90ND EMISSION VISIBLE
IC 2149	70	10.5	05 52 41	+46 06	L 3	3106 S O	22OCT78	21 42 00	5 00	MP028	21
IC 2149	70	10.5	05 52 41	+46 06	L 3	3106 L O	22OCT78	21 32 33	5 00	MP028	44
HD 40136	40	3.7	05 54 08	-14 10	L 2	2761 L O	30OCT78	17 25 11	35	RR039	60REFERS TO 2100
HD 40136	40	3.7	05 54 08	-14 10	H 2	2762 S C	30OCT78	18 00 01	26 00	RR039	40REFERS TO 2100
HD 40111	23	4.8	05 54 53	+25 57	H 2	3491 L O	14JAN79	15 12 45	35	UK068	40
HD 40111	23	4.8	05 54 53	+25 57	H 2	3745 L O	12FEB79	10 51 02	1 10	UK021	50
HD 40111	23	4.8	05 54 53	+25 57	H 3	3918 L O	14JAN79	15 06 20	2 10	UK068	50
HD 40111	23	4.8	05 54 53	+25 57	H 3	4235 L O	12FEB79	10 57 27	2 40	UK021	60
HD 40312	36	2.7	05 56 19	+37 13	H 3	4444 S C	01MAR79	07 34 26	5 00	RR041	70OK AT SW
HD 40312	36	2.7	05 56 19	+37 13	H 3	4445 S C	01MAR79	08 08 41	15 00	RR041	80OK AT 1300A
HD 41117	23	4.5	06 00 57	+20 08	H 2	2282 S C	05SEP78	16 40 20	9 00	UK021	80SAT DUE TO HIGH BGO
HD 41117	23	4.5	06 00 57	+20 08	H 2	2283 S C	05SEP78	17 21 35	7 00	UK021	60OK BUT HIGH RGD STILL
HD 41117	23	4.5	06 00 57	+20 08	H 3	2499 S C	05SEP78	17 59 00	40 00	UK021	70OK FOR SWJ STILL BGO
HD 41335	26	5.2	06 01 48	-06 42	H 2	2138 S C	21AUG78	20 00 08	6 00	PSD13	70SAT ABOVE 2700A
HD 41335	20	5.2	06 01 48	-06 42	H 2	2727 S C	26OCT78	16 49 00	6 00	PSD13	50
HD 41335	26	5.2	06 01 48	-06 42	H 2	3083 S C	01DEC78	14 48 53	6 00	PSD13	70
HD 41335	26	5.2	06 01 48	-06 42	H 2	3110 S C	05DEC78	16 22 40	6 00	PSD13	70
HD 41335	26	5.2	06 01 48	-06 42	H 3	3155 S C	21AUG78	19 39 16	5 00	PSD13	50
HD 41335	20	5.2	06 01 48	-06 42	H 3	3162 S C	26OCT78	17 30 00	5 30	PSD13	50
HD 41335	26	5.2	06 01 48	-06 42	H 3	3505 S C	01DEC78	14 38 14	5 30	PSD13	50
HD 41335	26	5.2	06 01 48	-06 42	H 3	3537 S C	05DEC78	16 10 30	5 30	PSD13	50
HD 41511	39	4.9	06 02 45	-16 29	H 2	4144 L O	29MAR79	05 21 15	25 00	MHA02	56
HD 41511	39	4.9	06 02 45	-16 29	H 3	4790 L O	29MAR79	04 26 25	25 00	MHA02	56
HD 42087	23	5.7	06 06 42	+23 07	H 2	2527 S C	02OCT78	20 01 28	50 00	RD016	70
HD 42087	23	5.7	06 06 42	+23 07	H 3	2639 S C	02OCT78	20 33 25	60 00	RD016	60
HD 43378	34	4.5	06 15 13	+59 02	H 2	3951 L O	07MAR79	10 16 18	5 01	LHB07	50
HD 43378	34	4.5	06 15 13	+59 02	H 3	4523 L O	07MAR79	09 53 12	5 30	LHB07	45
HD 45348	40	-7	06 22 50	-52 40	H 2	2916 L O	11NOV78	18 46 53	15	FP047	60
HD 45348	40	-7	06 22 50	-52 40	H 3	3308 L O	11NOV78	18 26 05	45	RR041	60
HD 45348	40	-7	06 22 50	-52 40	H 3	3309 L O	11NOV78	19 17 58	30 00	RR041	80OK ONLY NEAR 1550A
HD 45348	40	-0.7	06 22 51	-52 00	H 2	3761 S C	13FEB79	13 25 42	25	FM050	11MISSED APERTURE
HD 45348	40	-0.8	06 22 51	-52 40	H 2	3919 L O	03MAR79	07 19 39	9	FM050	50
HD 45348	40	-0.7	06 22 51	-52 00	H 3	4250 L O	13FEB79	13 36 08	50	FM050	70LSAT
HD 45677	26	8.5	06 25 59	-13 01	L 2	2416 S C	20SEP78	16 48 50	10 00	PSA13	60
HD 45677	26	8.5	06 25 59	-13 01	L 2	2416 L O	20SEP78	16 42 10	1 30	PSA13	70
HD 45677	26	8.5	06 25 59	-13 01	H 2	2417 L O	20SEP78	17 54 14	75 00	PSA13	58
HD 45677	26	8.5	06 25 59	-13 01	H 2	2418 L O	20SEP78	19 43 10	12 00	PSA13	
HD 45677	26	8.5	06 25 59	-13 01	L 3	2707 L O	20SEP78	17 43 51	2 00	PSA13	60
HD 45677	26	8.6	06 25 59	-13 01	H 3	4761 L O	27MAR79	05 58 53	110 00	MHA02	56
HS 45910	26	7.0	06 27 52	+05 54	H 2	4131 L O	27MAR79	08 11 18	35 00	MHA02	56
HS 45910	26	7.0	06 27 52	+05 54	H 3	4762 L O	27MAR79	08 54 12	75 00	MHA02	56
HD 46300	32	4.5	06 30 11	+07 22	H 2	3757 S C	13FEB79	06 38 19	13 00	FM050	50
HD 46300	32	4.5	06 30 11	+07 22	H 3	4248 S C	13FEB79	07 05 46	33 00	FM050	50
HD 47129	15	6.1	06 34 43	+06 11	H 2	2938 S C	14NOV78	15 43 13	11 30	UK010	50

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLN DEG MN	DISP +CAM	APERT OR LG	DATE	START HR MN SC	LENGTH MIN SC	PROG	COMMENT
HD 47129	15	6.1	06 34 43	+06 11	H 3	3347 S C	14NOV78	15 15 58	15 00	UK010	50
HD 47240	23	6.1	06 35 13	+05 00	H 2	2939 S C	14NOV78	17 12 00	19 00	UK010	50
HD 47240	23	6.1	06 35 13	+05 00	H 2	4072 L O	20MAR79	04 53 25	9 30	UK028	50
HD 47240	23	6.1	06 35 13	+05 00	H 3	3348 S C	14NOV78	16 24 53	41 30	UK010	50
HD 47240	23	6.1	06 35 13	+05 00	L 3	4703 S C	20MAR79	04 47 09	1 00	UK028	60
HD 47240	23	6.1	06 35 13	+05 00	L 3	4703 L O	20MAR79	04 43 22	40	UK028	70
HD 47240	23	6.1	06 35 13	+05 00	H 3	4704 L O	20MAR79	05 22 11	63 00	UK028	70
HD 47917	20	7.0	06 36 06	+06 57	H 2	2937 S C	14NOV78	14 30 49	23 30	UK010	50
HD 47917	20	7.0	06 36 06	+06 57	H 3	3346 S C	14NOV78	13 52 33	31 30	UK010	50
HD 47917	20	7.0	06 36 06	+06 57	H 3	3350 S C	14NOV78	19 23 39	20 00	UK010	50A FEW LINES MISSING
R MON	58	11.7	06 36 26	+08 47	L 2	3935 L O	05MAR79	10 37 43	70 00	UK044	33
R MON	58	11.7	06 36 26	+08 47	L 3	4496 L O	05MAR79	09 32 01	60 00	UK044	22
HD 47839	12	4.8	06 38 14	+09 57	L 2	2471 S C	26SEP78	23 04 00	1	PR030	50
HD 47839	12	4.8	06 38 14	+09 57	L 3	2777 S C	26SEP78	23 01 00	1	PR030	50
HD 46099	12	6.3	06 39 18	+06 24	H 2	2936 S C	14NOV78	13 06 14	11 00	UK010	50
HD 46099	12	6.4	06 39 18	+06 24	L 2	3664 S C	03FEB79	13 23 00	3	MG012	40
HD 48099	12	6.4	06 39 18	+06 24	L 2	3664 L O	03FEB79	13 17 00	6	MG012	70
HD 48099	12	6.3	06 39 18	+06 24	H 3	3345 S C	14NOV78	12 44 59	11 30	UK010	50
HD 48099	12	6.4	06 39 18	+06 24	L 3	4133 S C	03FEB79	13 26 00	5	MG012	40
HD 48099	12	6.4	06 39 18	+06 24	L 3	4133 L O	03FEB79	13 19 00	5	MG012	50
HD 48977	20	5.9	06 43 49	+08 38	H 2	2940 S C	14NOV78	18 30 38	7 20	UK010	50TWO LINES MISSING
HD 48977	20	5.9	06 43 49	+08 38	H 3	3349 S C	14NOV78	18 03 22	7 00	UK010	50
HD 50138	26	6.4	06 45 07	-06 54	H 2	3967 L O	09MAR79	06 22 10	16 00	LHB07	50
HD 50138	26	6.4	06 45 07	-06 54	H 3	4557 L O	09MAR79	06 52 29	30 00	LHB07	50
HD 4979A	16	8.6	06 46 35	-44 16	H 2	1603 S C	02JUN78	23 30 37	13 00	KH001	WEAK MEAN 83DN
HD 4979A	16	8.6	06 46 35	-44 16	H 2	1604 S C	03JUN78	01 06 13	25 00	KH001	STILL A BIT WEAK MEAN112
HD 4979A	16	8.3	06 46 35	-44 16	H 2	1620 S C	05JUN78	01 29 29	35 00	KH001	OK BUT HAS HIT 255
HD 4979A	16	8.3	06 46 35	-44 16	H 3	1336 S C	09APR78	09 35 00	40 00	UKPOP	
HD 4979A	16	8.6	06 46 35	-44 16	H 3	1698 S C	02JUN78	22 42 33	25 00	KH001	GOOD MAX DN 178
HD 4979A	16	8.6	06 46 35	-44 16	H 3	1699 S C	03JUN78	00 20 00	35 00	KH001	GOOD LEVEL OF EXP
HD 4979A	14	8.3	06 46 35	-44 16	L 3	4145 S C	04FEB79	07 45 38	12	UK036	50
HD 4979A	14	8.3	06 46 35	-44 16	L 3	4145 L O	04FEB79	07 49 03	9	UK036	60
HD 50241	31	3.3	06 47 41	-41 53	H 2	1865 S C	21JUL78	03 11 00	10 01	HH053	VERY GOOD
HD 50138	26	6.6	06 49 07	-06 54	H 2	3225 S C	21DEC78	10 42 16	75 00	NH051	77
HD 50138	26	6.6	06 49 07	-06 54	L 2	3226 L O	21DEC78	12 31 18	1 00	NH051	77
HD 50138	26	6.6	06 49 07	-06 54	H 2	3227 S C	21DEC78	14 08 17	35 00	NH051	55
HD 50138	26	6.6	06 49 07	-06 54	L 2	3247 S C	23DEC78	10 42 31	35	NH051	56
HD 50138	26	6.6	06 49 07	-06 54	L 2	3247 L O	23DEC78	10 37 32	35	NH051	77
HD 50138	26	6.6	06 49 07	-06 54	H 3	3662 S C	21DEC78	12 39 23	80 00	NH051	57
HD 50138	26	6.6	06 49 07	-06 54	L 3	3663 L O	21DEC78	14 56 33	1 00	NH051	56
HD 50138	26	6.6	06 49 07	-06 54	L 3	3663 S C	21DEC78	14 50 28	1 00	NH051	55
HD 50707	20	4.8	06 51 23	-20 10	L 2	2426 S C	21SEP78	19 59 00	2	UK019	60
HD 50707	20	4.8	06 51 23	-20 10	L 2	2426 L O	21SEP78	19 55 00	5	UK019	80
HD 50707	20	4.8	06 51 23	-20 10	L 2	2414 S O	22SEP78	16 49 14	1	UK019	40
HD 50707	20	4.4	06 51 23	-20 10	L 3	2721 S O	21SEP78	20 09 24	4	UK019	80
HD 50707	20	4.8	06 51 23	-20 10	L 3	2731 S O	22SEP78	17 44 01	1	UK019	60
HD 50896	11	6.5	06 52 08	-23 52	H 2	1290 S C	09APR78	06 41 55	8 00	UKPOP	
HD 50896	11	6.9	06 52 08	-23 52	H 2	3602 S C	2AJAN79	08 37 53	6 00	MH011	35

OBJECT	CL	MAG	RT ASCN			DECLN		DISP	APERT	DATE	START			LENGTH		PRNG	COMMENT
			HR	MM	SC	DEG	MM				HR	MM	SC	MIN	SEC		
HD 50896	11	6.9	06	52	08	-23	52	L 2	3603	L 0	28JAN79	10	11	57	8	MH011	56
HD 50896	11	6.9	06	52	08	-23	52	L 2	3603	S C	28JAN79	10	07	49	4	MH011	45
HD 50896	11	6.5	06	52	08	-23	52	H 3	1335	S C	09APR78	06	13	00	8 00	UKPNP	
HD 50896	11	6.9	06	52	08	-23	52	L 3	4064	L 0	28JAN79	08	32	26	10	MH011	77
HD 50896	11	6.9	06	52	08	-23	52	L 3	4064	S C	28JAN79	08	29	01	6	MH011	56
HD 50896	11	6.9	06	52	08	-23	52	H 3	4065	S C	28JAN79	09	19	04	14 00	MH011	57
HD 50975	16	8.2	06	53	04	+08	57	L 2	3613	L 0	29JAN79	13	57	14	2 05	UK036	60
HD 50975	16	8.2	06	53	04	+08	57	L 2	3613	S C	29JAN79	13	49	02	3 10	UK036	50
HD 50975	16	8.2	06	53	04	+08	57	L 3	4082	S C	29JAN79	13	17	51	3 25	UK036	40
HD 50975	16	8.2	06	53	04	+08	57	L 3	4082	L 0	29JAN79	13	10	17	2 20	UK036	50
HD 51585	26	11.2	06	55	41	+16	24	L 2	3966	L 0	09MAR79	04	37	08	21 00	LHR07	56
HD 51585	26	11.2	06	55	41	+16	24	L 3	4524	S C	07MAR79	11	22	58	25	LHR07	11
HD 51585	26	11.2	06	55	41	+16	24	L 3	4524	L 0	07MAR79	11	14	54	16	LHR07	11
HD 51585	26	11.2	06	55	41	+16	24	L 3	4556	L 0	09MAR79	05	06	05	30 00	LHR07	55
HD 53138	23	3.0	07	00	56	-23	46	H 2	1322	S C	16APR78	06	45	00	4 00	MH002	BIT OXP LW
HD 53138	23	3.0	07	00	56	-23	46	H 2	1368	S C	16APR78	05	38	30	10 00	MH002	BIT OXP LW
HD 53244	25	4.1	07	01	30	-15	34	H 2	2593	S C	13OCT78	16	42	32	2 30	FM050	50
HD 53244	25	4.1	07	01	30	-15	34	H 3	2958	S C	13OCT78	16	09	14	3 20	FM050	40
HD 53244	25	4.1	07	01	30	-15	34	H 3	2959	S C	13OCT78	17	18	21	6 30	FM050	50
HD 53244	25	4.1	07	01	30	-15	34	H 3	3448	S C	25NOV78	17	01	26	3 20	FM050	40
HD 53974	23	5.4	07	04	20	-11	13	H 3	3998	S C	23JAN79	10	27	06	14 00	UK036	60WEAK AT 1500A
HD 54813	25	8.5	07	05	34	-28	10	L 3	4103	S C	31JAN79	11	27	40	40	UK036	40
HD 54813	25	8.5	07	05	34	-28	10	L 3	4103	L 0	31JAN79	11	23	55	25	UK036	40
HD 54605	41	2.0	07	06	21	-26	18	L 2	2760	L 0	30OCT78	16	32	59	24	RB039	30REFERS TO 2100
+34 1543	16	9.4	07	06	50	+34	30	L 2	2780	S C	31OCT78	19	02	05	5 30	UK036	40
+34 1543	16	9.4	07	06	50	+34	30	L 2	2780	L 0	31OCT78	18	51	16	3 35	UK036	60
+34 1543	16	9.4	07	06	50	+34	30	L 3	3197	S C	31OCT78	18	08	37	3 10	UK036	50
+34 1543	16	9.4	07	06	50	+34	30	L 3	3197	L 0	31OCT78	17	57	35	2 05	UK036	50
0711+22	16	10.0	07	11	31	+22	23	L 2	2781	L 0	31OCT78	21	02	21	3 50	UK036	50
0711+22	16	10.0	07	11	31	+22	23	L 3	3198	S C	31OCT78	20	22	15	4 10	UK036	50
0711+22	16	10.0	07	11	31	+22	23	L 3	3198	L 0	31OCT78	20	11	30	2 50	UK036	50
HD 55906	25	9.0	07	11	52	-27	12	L 3	4099	S C	31JAN79	08	25	12	1 10	UK036	50
HD 55906	25	9.0	07	11	52	-27	12	L 3	4099	L 0	31JAN79	06	20	22	45	UK036	50
HD 56096	48	3.8	07	12	00	-44	34	H 2	2847	S C	21SEP78	16	52	00	53 00	UKFIL	11NOISY IMAGE
HD 56014	21	4.7	07	12	12	-26	16	H 2	2543	S C	06OCT78	15	39	05	1 30	LH006	40
HD 56014	21	4.7	07	12	12	-26	16	H 3	2866	S C	06OCT78	14	37	37	2 00	LH006	??
HD 56014	26	4.7	07	12	13	-26	16	H 2	3802	S C	06JAN79	10	09	54	1 38	AR020	50
HD 56014	26	4.7	07	12	13	-26	16	L 2	3403	L 0	06JAN79	10	41	02	1	AR020	50
HD 56014	26	4.7	07	12	13	-26	16	L 2	3403	S C	06JAN79	10	37	48	3	AR020	60
HD 56014	26	4.7	07	12	13	-26	16	L 3	3822	L 0	06JAN79	08	59	00	1	AR020	50
HD 56014	26	4.7	07	12	13	-26	16	L 3	3822	S C	06JAN79	08	53	14	2 01	AR020	90
HD 56014	26	4.7	07	12	13	-26	16	H 3	3823	S C	06JAN79	09	40	09	2 01	AR020	50
HD 56014	26	4.7	07	12	13	-26	16	H 3	3824	S C	06JAN79	11	08	23	3 03	AR020	60
HD 55908	25	8.4	07	15	32	-24	44	L 3	4100	S C	31JAN79	09	12	13	20	UK036	60
HD 55908	25	8.4	07	15	32	-24	44	L 3	4100	S C	31JAN79	09	08	30	30	UK036	50
HD 57150	21	4.7	07	16	32	-36	38	H 2	2544	S C	06OCT78	17	36	00	2 00	LH006	50
HD 57150	21	4.7	07	16	32	-36	38	H 3	2867	S C	06OCT78	16	29	00	1 20	LH006	40
HD 57150	21	4.7	07	16	32	-36	38	H 3	2868	S C	06OCT78	17	01	00	2 00	LH006	40
HD 57060	13	4.9	07	16	35	-24	28	H 2	1323	S C	16APR78	09	19	24	7 00	MH002	
HD 57060	13	4.9	07	16	35	-24	28	H 3	1369	S C	16APR78	08	10	00	7 00	MH002	QUITE GOOD
HD 57061	13	4.4	07	16	38	-24	51	H 2	3582	S C	26JAN79	10	12	15	2 40	RH014	50
HD 57061	13	4.4	07	16	38	-24	51	H 3	4040	S C	26JAN79	09	40	00	1 20	RH014	40
HD 57061	13	4.4	07	16	38	-24	51	H 3	4041	S C	26JAN79	10	52	23	1 40	RH014	40
HD 57503	24	8.9	07	18	31	-25	05	L 3	4101	S C	31JAN79	09	56	00	50	UK036	50
HD 57503	24	8.9	07	18	31	-25	05	L 3	4101	L 0	31JAN79	09	52	00	30	UK036	50
HD 58010	24	8.7	07	20	41	-25	04	L 3	4102	L 0	31JAN79	10	38	51	25	UK036	50
HD 58010	24	8.7	07	20	41	-25	04	L 3	4102	S C	31JAN79	10	35	36	40	UK036	50
HD 58350	24	2.4	07	22	07	-29	12	H 3	2960	S C	13OCT78	18	12	12	1 10	FM050	40
HD 58350	24	2.4	07	22	07	-29	12	H 3	4249	S C	13FEB79	10	03	12	2 00	FM050	70
HD 59612	33	4.8	07	27	44	-22	55	H 3	4443	L 0	01MAR79	04	42	08	100 00	RH041	60GOOD LONG OF 1400A
HD 59612	33	4.8	07	27	44	-22	55	H 2	2913	S C	11NOV78	12	41	21	35 00	FP047	50
HD 59612	33	4.8	07	27	44	-22	55	H 3	3305	S C	11NOV78	13	22	44	90 00	RB041	50
HD 59612	33	4.8	07	27	45	-22	55	H 2	3758	S C	13FEB79	08	13	04	67 00	FM050	70
HD 59612	33	4.8	07	27	45	-22	55	H 2	3917	L 0	03MAR79	05	26	49	20 00	FM050	50
HD 64414	57	5.0	07	31	30	-14	25	L 2	3786	S C	17FEB79	06	36	15	45	VB032	66
HD 64414	57	5.0	07	31	30	-14	25	L 2	3786	L 0	17FEB79	06	41	04	2 00	VB032	880K AT 2200A
HD 64414	57	5.0	07	31	30	-14	25	H 2	3787	L 0	17FEB79	07	55	58	23 00	VB032	57
HD 64414	57	5.0	07	31	30	-14	25	H 2	3788	L 0	17FEB79	09	12	19	10 00	VB032	46
HD 64414	57	5.0	07	31	30	-14	25	H 3	4284	L 0	17FEB79	07	12	01	35 00	VB032	57
HD 64414	57	5.0	07	31	30	-14	25	L 3	4285	S C	17FEB79	08	45	09	30	VB032	28NOISE PATTERN
HD 64414	57	5.0	07	31	30	-14	25	L 3	4285	L 0	17FEB79	08	39	22	2 00	VB032	88NOISE PATTERN
-31 4800	16	9.5	07	34	35	-32	06	L 2	1845	L 0	18JUL78	01	11	37	150 00	UK003	A BIT STRONGISAT AT 2800
-31 4800	16	9.5	07	34	35	-32	06	L 3	2072	S U	21JUL78	21	00	45	5 40	UK003	OKP X3
-31 4800	16	9.5	07	34	35	-32	06	L 3	2072	L 0	21JUL78	20	47	16	3 30	UK003	OKP X3
-31 4800	16	9.5	07	34	35	-32	06	L 3	2073	S U	21JUL78	21	49	00	1 30	UK003	GOOD MAX DN 170
-31 4800	16	9.5	07	34	35	-32	06	H 3	2074	S C	21JUL78	22	32	00	180 00	UK003	VERY GOOD A FEW PIX SAT
HD 61421	41	.3	07	36	41	+05	21	L 2	2763	L 0	30OCT78	19	09	27	6	RB039	70REFERS TO 2100
HD 61421	41	.3	07	36	41	+05	21	H 2	2764	S C	30OCT78	19	42	07	6 00	RB039	60REFERS TO 2100
HD 61421	41	.3	07	36	41	+05	21	H 2	2765	S C	30OCT78	20	19	42	4 00	RB039	50REFERS TO 2100
HD 61421	41	.3	07	36	41	+05	21	L 2	2766	L 0	30OCT78	21	09	00	3	RB039	50REFERS TO 2100
HD 61421	41	.3	07	36	41	+05	21	H 2	2767	S C	30OCT78	21	38	12	1 00	RB039	60
HD 61421	41	.3	07	36	41	+05	21	L 3	2802	L 0	29SEP78	16	34	33	15 00	UK001	80
HD 61421	41	.3	07	36													

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLN DEG MN	DISP +CAM	APER IMAGE OB LG	DATE	START HR MN SC	LENGTH MIN SC	PRG	COMMENT
01 090 4	H7	14.0	07 54 22	+10 05	L 2	4186 L 0	30MAR79	09 39 56	128 00	UK040	30
01 090 4	H7	14.0	07 54 22	+10 05	L 3	4806 L 0	30MAR79	05 22 05	240 00	UK040	30
-03 2179	16	10.4	07 59 44	-03 50	L 2	2806 L 0	02NOV78	16 17 31	2 00	UK036	60
-03 2179	16	10.4	07 59 44	-03 50	L 2	2806 S C	02NOV78	16 47 06	1 20	UK036	50
-03 2179	16	10.4	07 59 44	-03 50	L 3	3209 S 0	02NOV78	16 17 31	1 20	UK036	50
-03 2179	16	10.4	07 59 44	-03 50	L 3	3209 L 0	02NOV78	16 11 42	50	UK036	60
HD 66454	39	6.8	08 00 30	-27 24	L 3	4146 S C	04FEB79	08 38 50	2 05	UK036	10
HD 66454	39	6.8	08 00 30	-27 24	L 3	4146 L 0	04FEB79	08 35 10	1 25	UK036	20
HD 66A11	13	2.3	08 01 49	-39 51	H 3	1547 S C	15MAY78	04 20 00	7	KH052	GOOD
+75 325	16	9.5	08 04 43	+75 07	L 2	1520 S C	20MAY78	02 17 51	3 00	UKPOP	OVEREXP
+75 325	16	9.5	08 04 43	+75 07	L 2	1520 L 0	20MAY78	02 05 00	3 00	UKPOP	OVEREXP
+75 325	16	9.5	08 04 43	+75 07	L 2	1522 L 0	20MAY78	07 39 20	1 00	UKPOP	QUITE GOOD
+75 325	16	9.5	08 04 43	+75 07	L 2	1522 S C	20MAY78	07 27 00	1 00	UKPOP	QUITE GOOD
+75 325	16	9.0	08 04 43	+75 07	L 2	1838 S 0	16JUL78	21 11 52	30	UK003	UKP
+75 325	16	9.0	08 04 43	+75 07	L 2	1838 L 0	16JUL78	21 00 13	30	UK003	WEAK MAX DN 155
+75 325	16	9.0	08 04 43	+75 07	H 2	2794 S C	01NOV78	15 58 05	85 00	KH001	60
+75 325	16	9.5	08 04 43	+75 07	L 2	3282 S C	26DEC78	10 53 05	55	UKCAL	40
+75 325	16	9.5	08 04 43	+75 07	L 2	3282 L 0	26DEC78	10 49 23	35	UKCAL	50
+75 325	16	9.5	08 04 43	+75 07	H 2	3283 S C	26DEC78	11 38 11	50 00	UKCAL	50THO EXPOSURES OF 25MIN
+75 325	16	9.5	08 04 43	+75 07	H 2	3588 L 0	22JAN79	12 19 28	40 00	UKCAL	50
+75 325	16	9.5	08 04 43	+75 07	L 2	3589 L 0	22JAN79	13 51 54	35	UKCAL	50
+75 325	16	9.5	08 04 43	+75 07	L 2	3589 S 0	22JAN79	13 48 20	55	UKCAL	50
+75 325	16	9.5	08 04 43	+75 07	L 2	3921 L 0	08MAR79	05 12 53	24	VILSP	50
+75 325	16	9.5	08 04 43	+75 07	L 2	3921 S C	08MAR79	05 17 50	41	VILSP	50
+75 325	16	9.5	08 04 43	+75 07	L 2	3922 L 0	08MAR79	05 46 58	2 00	VILSP	80
+75 325	16	9.5	08 04 43	+75 07	L 2	4099 S 0	24MAR79	05 10 17	48	UKCAL	50
+75 325	16	9.5	08 04 43	+75 07	L 2	4099 L 0	24MAR79	05 06 54	24	UKCAL	40
+75 325	16	9.5	08 04 43	+75 07	L 3	1581 L 0	20MAY78	01 30 00	1 00	UKPOP	OVEREXP
+75 325	16	9.5	08 04 43	+75 07	L 3	1581 S C	20MAY78	01 24 00	1 00	UKPOP	OVEREXP
+75 325	16	9.5	08 04 43	+75 07	L 3	1583 S 0	20MAY78	07 19 58	30	UKPOP	GOOD
+75 325	16	9.5	08 04 43	+75 07	L 3	1583 L 0	20MAY78	07 16 40	30	UKPOP	GOOD
+75 325	16	9.0	08 04 43	+75 07	L 3	2031 S 0	16JUL78	23 24 07	20	UK003	GOOD
+75 325	16	9.0	08 04 43	+75 07	L 3	2031 L 0	16JUL78	21 18 49	20	UK003	GOOD MAX DN 230
+75 325	16	9.5	08 04 43	+75 07	H 3	3205 S C	01NOV78	14 45 58	65 00	KH001	50
+75 325	16	9.5	08 04 43	+75 07	H 3	3710 S C	26DEC78	10 58 19	35 00	UKCAL	40
+75 325	16	9.5	08 04 43	+75 07	L 3	3711 S C	26DEC78	12 11 26	24	UKCAL	50
+75 325	16	9.5	08 04 43	+75 07	L 3	3711 L 0	26DEC78	12 07 54	15	UKCAL	50
+75 325	16	9.5	08 04 43	+75 07	L 3	3983 L 0	22JAN79	12 09 18	15	UKCAL	50
+75 325	16	9.5	08 04 43	+75 07	L 3	3983 S 0	22JAN79	12 05 27	24	UKCAL	50
+75 325	16	9.5	08 04 43	+75 07	H 3	3984 L 0	22JAN79	13 06 24	35 00	UKCAL	50
+75 325	16	9.5	08 04 43	+75 07	L 3	4470 L 0	09MAR79	04 33 51	14	VILSP	50
+75 325	16	9.5	08 04 43	+75 07	L 3	4470 S C	09MAR79	04 29 49	24	VILSP	50
+75 325	16	9.5	08 04 43	+75 07	L 3	4736 S 0	24MAR79	05 17 30	23	UKCAL	50
+75 325	16	9.5	08 04 43	+75 07	L 3	4736 L 0	24MAR79	05 14 15	14	UKCAL	40
HD 68273	10	1.8	08 07 59	-47 11	H 2	1315 S C	14APR78	06 08 12	5	KH052	GAM2 VEL, OK
HD 68273	10	1.8	08 07 59	-47 11	H 2	1316 S C	14APR78	08 03 03	6	KH052	GAM2 VEL, OK
HD 68273	10	1.8	08 07 59	-47 11	H 2	1396 S C	27APR78	03 58 10	7	KH052	GAM2 VEL
HD 68273	10	1.8	08 07 59	-47 11	H 2	1497 S C	15MAY78	01 39 00	7	KH052	GOOD

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLN DEG MN	DISP +CAM	APER IMAGE OB LG	DATE	START HR MN SC	LENGTH MIN SC	PRG	COMMENT
HD 68273	10	1.8	08 07 59	-47 11	H 2	1498 S C	15MAY78	03 04 00	8	KH052	GOOD
HD 68273	10	1.8	08 07 59	-47 11	H 2	1543 S C	23MAY78	01 53 39	7	UKPOP	GOOD MAX DN 240
HD 68273	10	1.8	08 07 59	-47 11	H 2	1651 S C	10JUN78	23 47 00	7	UK002	GAMMA VEL GOOD EXP
HD 68273	10	1.8	08 07 59	-47 11	H 2	1691 S C	19JUN78	00 42 52	7	UK002	GOOD
HD 68273	10	1.8	08 07 59	-47 11	H 3	1358 S C	14APR78	05 05 59	3	KH052	GAM2 VEL, SLIGHTLY UKP.
HD 68273	10	1.8	08 07 59	-47 11	H 3	1159 S C	25APR78	04 24 59	6	KH052	GAM2 VEL, GOOD FOR CONT.
HD 68273	10	1.8	08 07 59	-47 11	H 3	1413 S C	25APR78	05 56 00	5	KH052	GOOD
HD 68273	10	1.8	08 07 59	-47 11	H 3	1425 S C	27APR78	05 10 00	5	KH052	GOOD
HD 68273	10	1.8	08 07 59	-47 11	H 3	1545 S C	15MAY78	00 52 00	5	KH052	GOOD
HD 68273	10	1.8	08 07 59	-47 11	H 3	1546 S C	15MAY78	02 23 00	6	KH052	GOOD
HD 68273	10	1.8	08 07 59	-47 11	H 3	1605 S C	23MAY78	01 04 40	5	UKPOP	GOOD GAM2 VEL
HD 68273	10	1.8	08 07 59	-47 11	H 3	1606 S C	23MAY78	02 38 12	5	UKPOP	GOOD, 1909 SAT
HD 68273	10	1.8	08 07 59	-47 11	H 3	1761 S C	10JUN78	23 00 13	5	UK002	GAMMA VEL GOOD EXP
HD 68273	10	1.8	08 07 59	-47 11	H 3	1811 S C	19JUN78	00 53 38	5	UK002	GOOD
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3901 S 0	02MAR79	05 09 19	15	UK043	50
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3902 S 0	02MAR79	05 41 58	15	UK043	50
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3903 S 0	02MAR79	06 22 35	15	UK043	50
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3904 S 0	02MAR79	06 53 10	15	UK043	50
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3905 S 0	02MAR79	07 24 35	1 30	UK043	70
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3906 L 0	02MAR79	07 57 10	1 30	UK043	70
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3906 S 0	02MAR79	07 57 10	1 30	UK043	70
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3907 L 0	02MAR79	08 28 44	15	UK043	60
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3907 S 0	02MAR79	08 28 44	15	UK043	50
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3908 S 0	02MAR79	09 00 08	15	UK043	10MISSED
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3909 S 0	02MAR79	09 33 30	15	UK043	50
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3910 L 0	02MAR79	10 03 30	15	UK043	30
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3910 S 0	02MAR79	10 03 30	15	UK043	50
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3911 S 0	02MAR79	10 33 58	15	UK043	10MISSED
JUPITER	03	-2.1	08 08 16	+20 56	L 2	3912 S 0	02MAR79	11 09 34	15	UK043	50
HD 69190	26	8.5	08 12 28	-41 33	L 3	2395 L 0	18SEP78	16 29 32	4 00	PSA13	4800 SPECTRUM BLUEOF2400
HD 69190	26	8.5	08 12 28	-41 33	L 3	2688 L 0	18SEP78	16 58 42	45 00	PSA13	34UXP X2
PUP A	59	16.0	08 22 33	-42 49	L 2	3039 L 0	26NOV78	14 40 00	91 00	UK037	110FFSET FROM XRAY POSN
PIP 4	59	16.0	08 22 33	-42 49	L 3	3460 L 0	26NOV78	14 38 00	60 00	UK037	17IN XRAY POSITION
0832-01	16	10.0	08 32 01	-01 45	L 2	2807 L 0	02NOV78	10 54 40	2 45	UK036	50
0832-01	16	10.0	08 32 01	-01 45	L 2	2807 S C	02NOV78	18 45 08	4 10	UK036	40
0832-01	16	10.0	08 32 01	-01 45	L 3	3210 S C	02NOV78	10 08 38	3 20	UK036	50
0832-01	16	10.0	08 32 01	-01 45	L 3	3210 L 0	02NOV78	17 38 33	2 10	UK036	60
HD 73340	36	5.8	08 34 23	-50 47	H 2	1780 S C	05JUL78	03 03 18	20 00	VILSP	OKP AT LONG WL
HD 73340	36	5.8	08 34 23	-50 47	H 3	1916 S C	05JUL78	02 25 09	30 00	VILSP	OKP AT LONG WL
HD 73340	36	5.8	08 34 23	-50 47	H 3	1917 S C	05JUL78	04 13 06	10 00	VILSP	OK AT LONG WL
HD 73634	33	4.1	08 35 53	-42 49	H 2	3918 L 0	03MAR79	06 30 41	12 00	FH050	60
HD 73634	33	4.1	08 35 54	-42 48	H 2	3759 S C	13FEB79	10 42 11	26 00	FH050	70
0837-120	65	15.8	08 37 28	-12 04	L 3	4292 L 0	18FEB79	07 14 28	392 00	UK016	35
HD 74272	33	4.8	08 39 35	-47 08	H 2	3760 S C	13FEB79	11 58 55	41 00	FH050	60
HD 74442	46	4.1	08 41 51	+18 20	H 2	3414 S C	07JAN79	11 01 49	112 00	UKF11	88
JUPITER	03	-2.0	08 43 26	+18 41	L 2	3153 L 0	10DEC78	11 36 22	2 00	UK043	20MAGNETOSPHERE?
JUPITER	03	-2.0	08 43 26	+18 41	L 2	3133 S 0	10DEC78	11 36 22	2 00	UK043	70EQUATOR,CENTRAL MERID
JUPITER	03	-2.0	08 43 26	+18 41	L 2	3134 S 0	10DEC78	12 19 06	15	UK043	50EQUATOR,CENTRAL MERID

OBJECT	CL	MAG	RT	ASCN	DECLN	DISP	APERT	START	LENGTH	PROG	COMMENT			
			HR	MN	SC	DEG	MIN	HR	MIN	SC				
JUPITER	03	-2.0	08	43	26	+18 41	L 2	3135	3 0	10DEC78	12 54 40	15	UK043	50EQUATOR,EAST LIMB
JUPITER	03	-2.0	08	43	26	+18 41	L 2	3136	3 0	10DEC78	13 25 48	15	UK043	10MISSED WEST LIMB
JUPITER	03	-2.0	08	43	26	+18 41	L 2	3137	3 0	10DEC78	13 59 00	15	UK043	7500TH POLE AT END L AP
JUPITER	03	-2.0	08	43	26	+18 41	L 2	3138	3 0	10DEC78	13 59 00	15	UK043	30NORTH POLE
JUPITER	03	-2.0	08	43	26	+18 41	L 2	3139	3 0	10DEC78	14 41 30	15	UK043	50EQUATOR,MID LONGITUDE
JUPITER	03	-2.0	08	43	26	+18 41	L 2	3139	3 0	10DEC78	15 16 17	15	UK043	10MISSED SOUTH POLE
JUPITER	03	-2.0	08	43	26	+18 41	L 3	3568	L 0	10DEC78	11 46 13	20 00	UK043	02LYMAN ALPHA
JUPITER	03	-2.0	08	43	26	+18 41	L 3	3568	S 0	10DEC78	11 46 13	20 00	UK043	02EQUATOR,CENTRAL MERID
GANYMEDE	04	5.0	08	43	43	+18 40	L 2	3140	L 0	10DEC78	16 00 51	1 00	UK043	50
GANYMEDE	04	5.0	08	43	43	+18 40	L 2	3140	S 0	10DEC78	15 52 01	4 00	UK043	70
HD 75311	20	4.0	08	45	25	-56 35	H 2	2505	S C	06NOV78	18 56 00	3 10	LH006	60
HD 75311	20	4.0	08	45	25	-56 35	H 3	2869	S C	06NOV78	18 16 00	2 50	LH006	40
HD 775A1	59	6.9	09	00	13	-40 21	H 2	1418	L U	30APR78	06 43 00	70 00	XR001	GOOD FEW PIX OVEREXP.
HD 775A1	59	6.9	09	00	13	-40 21	H 2	3120	L U	07DEC78	13 34 00	50 00	HM043	40
HD 775A1	59	6.9	09	00	13	-40 21	H 3	1442	L U	30APR78	03 28 50	180 00	XR001	GOOD
HD 775A1	59	6.5	09	00	13	-40 21	H 3	3510	L U	02DEC78	16 11 10	90 00	UK037	40VELA X-1
HD 775A1	59	6.9	09	00	13	-40 21	H 3	3519	L U	03DEC78	15 21 40	140 00	HM043	50
HD 775A1	23	6.9	09	00	13	-40 21	H 3	3550	L U	07DEC78	11 09 15	140 00	HM043	40
0904+02	16	10.0	09	04	37	-02 54	L 3	3211	S C	02NOV78	19 29 13	4 20	UK016	50
0904+02	16	10.0	09	04	37	-02 54	L 3	3211	L U	02NOV78	19 19 27	2 50	UK036	60
HD 78316	36	5.1	09	05	2	+10 52	H 2	1303	S C	11APR78	06 20 00	20 00	UKP0P	SOME BAT LM
HD 78316	36	5.1	09	05	2	+10 52	H 3	1349	S C	11APR78	04 53 00	35 00	UKP0P	
HD 80836	30	10.3	09	18	44	-45 23	L 2	1844	L U	17JUL78	22 03 00	5 00	UK003	2 EXP. ONE BAT, ONE OK
HD 80836	30	10.3	09	18	44	-45 23	L 3	2030	L U	17JUL78	21 15 00	5 00	UK003	2 EXP NOT WELL SEP. UXP
+37 1977	16	9.5	09	21	18	+36 56	L 2	2779	S C	31OCT78	16 59 17	1 30	UK036	50
+37 1977	16	9.5	09	21	18	+36 56	L 2	2779	L U	31OCT78	16 53 17	1 00	UK036	50
+37 1977	16	9.5	09	21	18	+36 56	L 3	3196	S C	31OCT78	16 21 42	1 00	UK036	50
+37 1977	16	9.5	09	21	18	+36 56	L 3	3196	L U	31OCT78	16 16 55	40	UK036	50
HD 83183	24	4.1	09	33	00	-59 00	H 3	2963	S C	13OCT78	21 29 04	12 00	FM050	70
HD 83183	24	4.1	09	33	00	-59 00	H 3	3451	S C	25NOV78	19 38 00	6 00	FM050	60
HD 83618	47	3.9	09	37	18	-00 54	H 2	3653	S C	02FEB79	06 48 15	100 00	UKFIL	35HACKGROUND AT 65DN
HD 83618	47	3.9	09	37	18	-00 54	L 3	4122	S C	02FEB79	07 24 00	108 00	UKFIL	11FOCUS POOR-ONLY LYA
TITAN	04	8.0	09	46	28	+15 00	L 2	1521	S C	20MAY78	04 25 00	30 00	UKP0P	UNDEREXP MAXDN 120
TITAN	04	8.0	09	46	28	+15 00	L 3	1582	S C	20MAY78	05 05 00	30 00	UKP0P	NO SPECTRUM
HD 86161	11	8.4	09	53	15	-57 29	L 2	3827	L U	22FEB79	09 03 53	58	UK02A	55
HD 86161	11	8.4	09	53	15	-57 29	L 2	3827	S C	22FEB79	08 58 51	1 56	UK02A	55
HD 86161	11	8.4	09	53	15	-57 29	L 3	4333	S C	22FEB79	08 53 17	2 40	UK02A	55
HD 86161	11	8.4	09	53	15	-57 29	L 3	4333	L U	22FEB79	08 48 35	1 20	UK02A	44
HD 86248	24	9.6	09	54	21	-31 12	H 2	4073	L U	20MAR79	09 14 50	75 00	UK02H	50
HD 86248	24	9.6	09	54	21	-31 12	H 3	4705	L U	20MAR79	07 11 31	120 00	UK02H	60
HD 86248	24	9.6	09	54	21	-31 12	L 3	4706	L U	20MAR79	10 33 23	1 50	UK02B	60
HD 86440	24	3.5	09	55	07	-54 21	H 3	3449	S C	25NOV78	17 54 00	2 20	FM050	50
HD 87141	41	5.7	10	01	18	+54 08	H 2	1653	S C	11JUN78	05 09 36	30 00	UK02C	WEAK MAX DN 110
HD 87737	32	3.5	10	04	36	+17 00	H 2	2914	S C	11NOV78	18 30 26	2 30	FP047	50
HD 87737	32	3.5	10	04	36	+17 00	H 2	2915	S C	11NOV78	17 15 48	7 30	FP047	70
HD 87737	32	3.5	10	04	36	+17 00	H 3	3306	S C	11NOV78	15 44 43	5 01	RB041	50
HD 87737	32	3.5	10	04	36	+17 00	H 3	3307	S C	11NOV78	16 46 00	15 00	RB041	70
HD 88015	21	6.7	10	05	37	-48 01	L 2	1894	L U	26JUL78	03 36 00	15	VILAP	A BIT BAT

OBJECT	CL	MAG	RT	ASCN	DECLN	DISP	APERT	START	LENGTH	PROG	COMMENT			
			HR	MN	SC	DEG	MIN	HR	MIN	SC				
HD 88015	21	6.7	10	05	37	-48 01	L 2	1894	S C	26JUL78	03 30 33	15	VILSP	GOOD
HD 87901	22	1.3	10	05	43	+12 13	H 2	3422	S C	08JAN79	08 57 53	13	AR020	40
HD 87901	22	1.3	10	05	43	+12 13	H 3	3839	S C	08JAN79	08 14 51	21	AR020	50
Q1011+25	85	15.4	10	11	06	+25 04	L 2	2986	L U	20NOV78	15 04 17	280 00	UK13A	34HACKGROUND 60DN
Q1011+25	85	15.6	10	11	06	+25 04	L 2	3126	L U	08DEC78	11 37 59	368 00	UK13A	33
SKY	07	00.0	10	11	06	+25 04	L 3	3394	L U	20NOV78	15 07 22	265 00	UK13A	00ONLY GEORCORONA
Q1011+25	85	15.4	10	11	06	+25 04	L 3	3434	L U	24NOV78	13 53 00	350 00	UK13A	20
HD 89890	21	4.6	10	19	03	-55 47	H 2	2546	S C	06OCT78	20 42 00	6 00	LH006	50
HD 89890	21	4.6	10	19	03	-55 47	H 3	2870	S C	06OCT78	19 41 00	5 40	LH006	40
HD 89890	21	4.6	10	19	03	-55 47	H 3	2871	S C	06OCT78	20 22 00	11 00	LH006	70
HD 89822	36	4.9	10	20	33	+65 49	H 2	2579	S C	11OCT78	18 53 43	12 00	UK025	60
HD 89822	36	4.9	10	20	33	+65 49	H 3	2922	S C	11OCT78	19 12 54	15 00	UK025	50
NGC 3242	70	11.0	10	22	22	-18 23	L 2	3031	L U	25NOV78	14 52 52	3 00	PB029	20
NGC 3242	70	11.0	10	22	22	-18 23	L 2	3031	L U	25NOV78	14 36 36	3 00	PB029	40
NGC 3242	70	11.0	10	22	22	-18 23	L 3	3446	L U	25NOV78	15 16 02	2 00	PB029	34
NGC 3242	71	11.0	10	22	22	-18 23	L 3	3447	L U	25NOV78	15 49 10	5 00	PB029	35NUCLEUB NOT QUITE OUT
-24 9052	19	10.0	10	23	30	-24 38	L 3	4147	S C	04FEB79	09 55 02	4 50	UK036	50
-24 9052	19	10.0	10	23	30	-24 38	L 3	4147	L U	04FEB79	10 05 08	3 20	UK036	50
HD 91316	23	3.9	10	30	11	+09 34	L 2	1274	S C	03APR78	05 05 15	5	PB030	GOOD
HD 91316	23	3.9	10	30	11	+09 34	L 3	1303	S C	03APR78	05 40 13	3	PB030	GOOD
HD 91316	23	3.9	10	30	11	+09 34	H 3	3046	S C	19OCT78	14 31 17	1 20	UK041	20MISSED APERT
HD 91316	23	3.9	10	30	11	+09 34	H 3	3047	S C	19OCT78	15 03 58	5 00	UK041	80
HD 91316	23	3.8	10	30	11	+09 34	H 3	3970	S C	21JAN79	11 31 58	1 30	UK026	70
1032+40	16	10.0	10	32	26	+40 36	L 2	2778	S C	31OCT78	15 30 29	5 05	UK036	60
1032+40	16	10.0	10	32	26	+40 36	L 3	3195	L U	31OCT78	14 46 09	2 40	UK036	50
1032+40	16	10.0	10	32	26	+40 36	L 3	3195	S C	31OCT78	14 33 55	4 05	UK036	50
+10 2179	21	10.0	10	36	17	+10 19	L 2	2795	S C	01NOV78	19 24 25	8 00	KH001	60
+10 2179	21	10.0	10	36	17	+10 19	L 2	2795	L U	01NOV78	18 55 03	8 00	KH001	70
+10 2179	24	9.0	10	36	17	+10 19	L 3	1702	S C	03JUN78	05 38 40	5 00	KH001	NO SPECTRUM
+10 2179	24	9.0	10	36	17	+10 19	L 3	1702	L U	03JUN78	05 19 25	8 00	KH001	SPECTRUM TRAILED
+10 2179	24	9.0	10	36	17	+10 19	L 3	1721	L U	05JUN78	04 47 02	14 00	KH001	OVEREXPOSED X 2
+10 2179	24	9.0	10	36	17	+10 19	L 3	1721	S C	05JUN78	04 29 19	7 00	KH001	OK BUT HAB HIT 255
+10 2179	21	10.0	10	36	17	+10 19	L 3	3206	L U	01NOV78	19 37 19	6 00	KH001	60
HD 92740	11	6.4	10	39	23	-59 25	L 2	3604	L U	28JAN79	12 13 33	10	HM011	66
HD 92740	11	6.4	10	39	23	-59 25	L 2	3604	S C	28JAN79	12 10 02	6	HM011	45
HD 92740	11	6.4	10	39	23	-59 25	H 2	3605	S C	28JAN79	13 42 40	12 00	HM011	55
HD 92740	11	6.4	10	39	23	-59 25	L 3	4066	L U	28JAN79	11 13 36	10	HM011	56
HD 92740	11	6.4	10	39	23	-59 25	L 3	4066	S C	28JAN79	11 10 05	6	HM011	36
HD 92740	11	6.4	10	39	23	-59 25	H 3	4067	S C	28JAN79	11 41 56	15 00	HM011	58
HD 93131	11	6.5	10	41	57	-59 51	L 2	3825	S C	22FEB79	06 29 14	5	UK02A	45
HD 93131														

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLN DEG MN	DIBP +CAM	APERT OR LG	DATE	START HR MN SC	LENGTH MIN SC	PRG	COMMENT
HD 93162	11	8.1	10 42 14	+59 27	L 3	270A	L 0 20SEP78	21 00 00	5 30	PSB13	99
HD 93162	11	8.1	10 42 14	+59 27	L 3	270B	S C 20SEP78	21 13 04	6 00	PSB13	99
HD 93162	11	8.1	10 42 14	+59 27	L 3	2709	S C 20SEP78	22 35 20	2 00	PSB13	55
HD 93162	11	8.1	10 42 14	+59 27	L 3	2709	L 0 20SEP78	22 25 46	2 00	PSB13	66
HD 93206	23	6.2	10 42 27	+59 44	H 2	4074	L 0 20MAR79	11 47 31	9 00	UK028	60
HD 93206	23	6.2	10 42 27	+59 44	H 3	4707	L 0 20MAR79	11 16 57	15 15	UK028	60
HD 93205	12	7.7	10 42 37	+59 28	L 3	2710	L 0 20SEP78	23 29 11	20	PSB13	
HD 93205	12	7.7	10 42 37	+59 28	L 3	2710	S C 20SEP78	23 23 30	40	PSB13	
HD 93308	61	6.0	10 43 07	+59 25	H 2	1592	L 0 01JUN78	23 47 33	20 00	UKPOP	SOME EM LINES SAT.
HD 93308	61	6.2	10 43 07	+59 25	H 2	3890	L 0 28FEB79	09 55 44	5 30	VR032	35
HD 93308	61	6.2	10 43 07	+59 25	L 2	3891	S C 28FEB79	11 52 00	1 00	VR032	67
HD 93308	61	6.2	10 43 07	+59 25	L 2	3891	L 0 28FEB79	11 47 52	2 00	VR032	67
HD 93308	61	6.0	10 43 07	+59 25	L 3	1687	L 0 01JUN78	23 19 00	2 00	UKPOP	EM LINES SAT. MEAN 1500N
HD 93308	61	6.0	10 43 07	+59 25	H 3	1688	L 0 02JUN78	01 04 42	40 00	UKPOP	VERY WEAK
HD 93308	61	6.2	10 43 07	+59 25	H 3	4433	L 0 28FEB79	09 29 50	15 00	VR032	26
HD 93308	61	6.2	10 43 07	+59 25	H 3	4434	L 0 28FEB79	10 24 30	80 00	VR032	48
HD30330A	12	8.1	10 43 09	+59 24	L 2	2356	L 0 14SEP78	17 37 04	4 48	PSB13	66
HD30330A	12	8.1	10 43 09	+59 24	L 2	2356	S C 14SEP78	17 31 49	1 36	PSB13	66
HD30330A	12	8.1	10 43 09	+59 24	L 3	2650	L 0 14SEP78	17 17 33	4 48	PSB13	44
HD30330A	12	8.1	10 43 09	+59 24	L 3	2650	S C 14SEP78	17 11 23	1 36	PSB13	55
HD 93308	23	8.0	10 43 11	+59 47	H 2	1537	S C 22MAY78	06 20 00	35 00	VR032	GOOD
HD 93308	23	8.0	10 43 11	+59 47	H 2	1536	S C 25MAY78	03 11 38	35 00	VR032	NOT THE TARGET
HD 93308	23	8.0	10 43 11	+59 47	L 3	1600	L 0 22MAY78	05 54 00	5 00	VR032	OVEREXP LM
HD 93304	23	8.0	10 43 11	+59 47	L 3	1600	S C 22MAY78	05 38 00	1 30	VR032	QUITE GOOD
HD 93304	23	8.0	10 43 11	+59 47	H 3	1629	S C 25MAY78	00 59 17	120 00	VR032	NOT THE TARGET
HD 93308	23	8.0	10 43 11	+59 47	H 3	1630	S C 25MAY78	04 15 17	120 00	VR032	GOOD
NGC 3379	81	9.7	10 45 11	+12 51	L 2	2960	L 0 17NOV78	12 39 31	425 00	FB024	55
HD 93521	12	6.9	10 45 34	+37 50	H 2	1304	S C 11APR78	09 30 00	25 00	UKPOP	SAT LM
HD 93521	12	6.9	10 45 34	+37 50	H 2	1544	S C 23MAY78	05 43 37	10 00	UKPOP	GOOD
HD 93521	12	7.0	10 45 34	+37 50	L 2	3547	S 0 22JAN79	09 05 06	5	UKCAL	40
HD 93521	12	7.0	10 45 34	+37 50	L 2	3547	L 0 22JAN79	08 59 23	3	UKCAL	40
HD 93521	12	7.0	10 45 34	+37 50	L 2	3923	L 0 04MAR79	07 06 40	3	VILSP	50
HD 93521	12	7.0	10 45 34	+37 50	L 2	3923	S C 04MAR79	07 04 20	5	VILSP	40
HD 93521	12	6.9	10 45 34	+37 50	H 3	1350	S C 11APR78	08 15 00	30 00	UKPOP	OVER, OK NEAR 1200+1500
HD 93521	12	6.9	10 45 34	+37 50	H 3	1607	S C 23MAY78	05 07 24	10 00	UKPOP	VERY GOOD
HD 93521	12	7.0	10 45 34	+37 50	L 3	3980	S 0 22JAN79	10 05 44	5	UKCAL	50
HD 93521	12	7.0	10 45 34	+37 50	L 3	3980	L 0 22JAN79	09 57 19	3	UKCAL	50
HD 93521	12	7.0	10 45 34	+37 50	L 3	3981	L 0 22JAN79	10 31 55	9	UKCAL	SOMEDIUM GAIN
HD 93521	12	7.0	10 45 34	+37 50	L 3	3982	L 0 22JAN79	10 58 48	30	UKCAL	SOMINIUM GAIN
HD 93521	12	7.0	10 45 34	+37 50	L 3	4471	L 0 04MAR79	06 32 47	3	VILSP	50
HD 93521	12	7.0	10 45 34	+37 50	L 3	4471	S C 04MAR79	06 36 25	5	VILSP	50
HD 93521	12	7.0	10 45 34	+37 50	H 3	4472	L 0 04MAR79	07 24 00	5 00	VILSP	50
HD 94878	26	8.7	10 53 58	+60 07	L 2	2396	S C 18SEP78	18 55 37	60 00	PSA13	77
HD 94878	26	8.7	10 53 58	+60 07	L 2	2396	L 0 18SEP78	18 36 44	30 00	PSA13	77
HD 94878	26	8.7	10 53 58	+60 07	L 2	2397	L 0 18SEP78	20 41 52	2 00	PSA13	56
HD 94878	26	8.7	10 53 58	+60 07	L 3	2685	L 0 18SEP78	20 03 43	30 00	PSA13	AA
HD 94878	26	8.7	10 53 58	+60 07	L 3	2686	L 0 18SEP78	21 29 02	4 00	PSA13	45

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLN DEG MN	DIBP +CAM	APERT OR LG	DATE	START HR MN SC	LENGTH MIN SC	PRG	COMMENT
HD 93521	12	7.0	10 54 34	+37 50	L 2	4102	L 0 24MAR79	10 04 52	3	UKCAL	40
HD 93521	12	7.0	10 54 34	+37 50	L 2	4102	S 0 24MAR79	10 02 19	5	UKCAL	40
HD 93521	12	7.0	10 54 34	+37 50	L 2	4103	L 0 24MAR79	10 31 21	30	UKCAL	SOMING
HD 93521	12	7.0	10 54 34	+37 50	L 2	4104	L 0 24MAR79	11 02 55	9	UKCAL	SOMEDG
HD 93521	12	7.0	10 54 34	+37 50	H 2	4105	L 0 24MAR79	11 35 23	5 01	UKCAL	50
HD 93521	12	7.0	10 54 34	+37 50	L 3	4738	L 0 24MAR79	09 58 13	3	UKCAL	50
HD 93521	12	7.0	10 54 34	+37 50	L 3	4738	S 0 24MAR79	09 56 11	5	UKCAL	50
HD 95689	46	1.8	11 00 40	+62 01	H 2	1319	S C 15APR78	08 42 00	15 00	UKPOP	GOOD
HD 95689	46	1.8	11 00 40	+62 01	H 3	1362	S C 15APR78	07 36 00	30 00	UKPOP	UKP 3M
HD 95689	46	1.8	11 00 40	+62 01	L 3	1363	S C 15APR78	09 30 00	35 00	UKPOP	SAT. LM
Q1101-26	85	16.1	11 01 00	-26 29	L 2	2982	L 0 19NOV78	13 18 00	386 00	UK138	30BACKGROUND AT 1000N
Q1101-26	85	16.1	11 01 00	-26 29	L 2	3474	L 0 10MAR79	05 03 12	405 00	UK138	20
Q1101-26	85	16.1	11 01 00	-26 29	L 3	3295	L 0 10NOV78	13 05 45	400 00	UK138	11
MKN 421	87	13.5	11 01 40	+38 29	L 2	4133	L 0 28MAR79	04 45 07	210 00	UK040	70
NGC 3516	84	13.6	11 03 23	+72 50	L 2	1669	S 0 14JUN78	23 22 18	120 00	SL034	UNDEREXP MAX DN 110
NGC 3516	84	13.6	11 03 23	+72 50	L 2	1703	L 0 21JUN78	04 50 00	50 00	MU009	WEAK MAX DN 84
NGC 3516	84	13.6	11 03 23	+72 50	L 3	1786	S 0 15JUN78	01 39 22	240 00	SL034	UNDEREXP MAX DN 83
NGC 3516	84	13.6	11 03 23	+72 50	L 3	1821	L 0 20JUN78	23 38 01	300 00	MU009	OK MAX DN 130
NGC 3516	84	13.6	11 03 23	+72 50	L 3	1840	L 0 22JUN78	23 06 00	390 00	MU009	GOOD MAX DN 180
HD 96548	11	7.8	11 04 18	+65 14	H 2	3686	L 0 28JAN79	13 55 47	20 00	MH011	48
HD 96548	11	7.8	11 04 18	+65 14	L 2	3687	L 0 28JAN79	15 30 23	40	MH011	66
HD 96548	11	7.8	11 04 18	+65 14	L 2	3687	S C 28JAN79	15 34 00	20	MH011	48
HD 96548	11	7.8	11 04 18	+65 14	L 3	4068	L 0 28JAN79	13 50 15	30	MH011	55
HD 96548	11	7.8	11 04 18	+65 14	L 3	4068	S C 28JAN79	13 46 51	15	MH011	33
HD 96548	11	7.8	11 04 18	+65 14	H 3	4069	L 0 28JAN79	14 28 12	45 00	MH011	56
HD 97991	20	7.4	11 13 39	+03 12	H 2	1739	S C 28JUN78	01 05 00	17 00	UK06A	GOOD
HD 97991	20	7.4	11 13 39	+03 12	H 3	1870	S C 27JUN78	23 39 00	13 00	UK06A	ARBIT WEAK MAX DN 135
COM1978M	06	7.0	11 21 33	+67 39	L 2	2648	S C 18OCT78	19 27 00	137 00	VILSP	05
COM1978M	06	7.0	11 21 33	+67 39	L 2	2648	L 0 18OCT78	19 27 00	137 00	VILSP	08
COM1978M	06	7.0	11 21 33	+67 39	L 3	3025	S 0 18OCT78	19 25 48	180 00	VILSP	??READ AT GSFC
COM1978M	06	7.0	11 21 33	+67 39	L 3	3025	L 0 18OCT78	19 25 48	180 00	VILSP	??READ AT GSFC
MKN 170	82	14.4	11 23 55	+64 25	L 3	4206	L 0 09FEB79	07 14 00	200 00	FR024	11
HD100841	25	3.1	11 33 28	+62 45	H 2	2594	S C 13OCT78	19 33 54	2 30	FM050	30
HD100841	25	3.1	11 33 28	+62 45	H 2	2595	S C 13OCT78	20 42 45	4 00	FM050	50
HD100841	25	3.1	11 33 28	+62 45	H 3	2961	S C 13OCT78	18 58 41	6 00	FM050	30
HD100841	25	3.1	11 33 28	+62 45	H 3	2962	S C 13OCT78	19 59 11	28 00	FM050	70
HD100841	25	3.1	11 33 28	+62 45	H 3	3450	S C 25NOV78	18 45 19	5 01	FM050	50
NGC 3783	84	13.0	11 36 33	+37 28	L 2	3040	L 0 26NOV78	17 57 00	60 00	UK037	34
NGC 3783	84	13.0	11 36 33	+37 28	L 2	3092	L 0 02DEC78	14 25 04	60 00	UK037	35
NGC 3783	84	13.0	11 36 33	+37 28	L 3	3461	L 0 26NOV78	17 11 40	40 00	UK037	23
NGC 3783	84	13.0	11 36 33	+37 28	L 3	3462	L 0 26NOV78	19 03 00	40 00	UK037	23
NGC 3783	84	13.0	11 36 33	+37 28	L 3	3509	L 0 02DEC78	11 02 03	180 00	UK037	37CIV SAT
S0251595	20	9.0	11 45 34	+61 56	L 2	1815	S C 29APR78	07 25 00	5 00	UK1XR	GOOD
S0251595	20	9.0	11 45 34	+61 55	L 2	2536	S C 04OCT78	16 56 48	25 00	PR042	70
S0251595	20	8.9	11 45 34	+61 55	L 2	2600	L 0 14OCT78	14 46 03	5 00	PR042	70
S0251595	20	8.9	11 45 34	+61 55	L 2	2601	L 0 14OCT78	15 48 58	1 30	PR042	50
S0251595	20	8.9	11 45 34	+61 55	L 2	2601	S C 14OCT78	15 36 08	4 30	PR042	70

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLN DEG MN	DISP +CAM	APERT IMAGE OR LG	START DATE	LENGTH HR MN SC	PROG	COMMENT
S0251595	20	9.0	11 45 34	+61 56	L 3	1435 S C	29APR78	06 40 00	5 00	UK1XR A BIT UXP MAKON 120
S0251595	20	9.0	11 45 34	+61 55	L 3	2652 S C	04OCT78	16 21 30	15 00	PR042 80
S0251595	20	9.0	11 45 34	+61 55	L 3	2853 S C	04OCT78	17 00 00	6 00	PR042 50
S0251595	20	9.0	11 45 34	+61 55	L 3	2853 L O	08OCT78	16 53 43	2 00	PR042 50
HD102870	41	3.6	11 48 06	+20 03	H 2	3192 S C	17DEC78	15 15 54	15 00	CB031 60RETA VIR
HD102870	41	3.6	11 48 06	+20 03	L 3	3624 L O	17DEC78	16 12 23	3 00	LR031 30
HD102870	41	3.6	11 48 06	+20 03	L 3	3624 S C	17DEC78	16 05 40	3 00	CB031 30
HD104337	20	5.5	11 58 18	+19 23	H 3	3969 S C	21JAN79	10 46 06	4 00	UK026 70
NGC 4051	84	14.0	12 00 36	+44 49	L 3	1911 L U	03JUN78	22 29 55	20 00	UK005 NO SPECTRUM
NGC 4051	84	14.0	12 00 36	+44 49	L 3	1912 L O	04JUL78	03 17 26	85 00	UK005 UNDEREXPOSED
NGC 4051	84	14.0	12 00 36	+44 49	L 3	1918 L O	08JUL78	00 03 05	240 00	UK005 A BIT WEAK
HD105183	34	10.0	12 04 06	+11 57	L 2	3191 L O	17DEC78	14 02 31	11 00	CB031 50
HD105183	34	10.0	12 04 06	+11 57	L 3	3623 L O	17DEC78	14 30 32	16 00	CB031 50
NGC 4151	84	11.7	12 08 00	+39 41	L 2	1456 S C	08MAY78	05 19 00	60 00	XGAL NO SPECTRUM
NGC 4151	84	11.7	12 08 00	+39 41	L 2	1463 S C	09MAY78	06 41 00	60 00	XGAL
NGC 4151	84	11.0	12 08 00	+39 42	L 2	1476 S C	12MAY78	03 23 01	120 00	XGAL
NGC 4151	84	11.0	12 08 00	+39 41	L 2	1485 L O	24JUL78	20 29 28	30 00	UK016 GOOD HITB 255 IN NGII
NGC 4151	84	11.4	12 08 00	+39 41	L 2	2650 L O	19OCT78	18 02 43	25 00	UK041 55
NGC 4151	84	11.4	12 08 00	+39 41	L 2	2651 L O	19OCT78	19 07 07	25 00	UK041 55
NGC 4151	84	12.0	12 08 00	+39 41	L 2	3129 L O	09DEC78	11 10 33	30 00	PT037 56
NGC 4151	84	12.0	12 08 00	+39 41	L 2	3130 L O	09DEC78	13 30 09	60 00	PT037 56
NGC 4151	84	11.5	12 08 00	+39 41	L 2	3538 L O	21JAN79	12 36 31	25 00	UK026 45
NGC 4151	84	11.5	12 08 00	+39 41	L 2	3539 L O	21JAN79	14 52 21	25 00	UK026 45
NGC 4151	84	11.7	12 08 00	+39 41	L 3	1504 S C	08MAY78	03 00 00	60 00	XGAL NO SPECTRUM
NGC 4151	84	11.7	12 08 00	+39 41	L 3	1505 S C	08MAY78	07 00 00	40 00	XGAL GOOD
NGC 4151	84	11.0	12 08 00	+39 42	L 3	1518 S C	11MAY78	01 14 00	240 00	XGAL CONTIN. OVEREXP
NGC 4151	84	11.0	12 08 00	+39 42	L 3	1519 S C	11MAY78	06 40 00	60 00	XGAL
NGC 4151	84	11.0	12 08 00	+39 42	L 3	1523 S C	12MAY78	01 12 07	120 00	XGAL GOOD
NGC 4151	84	11.0	12 08 00	+39 42	L 3	1524 S C	12MAY78	05 37 00	120 00	XGAL
NGC 4151	84	11.0	12 08 00	+39 41	L 3	2094 L O	24JUL78	22 24 00	30 00	UK016 GOOD
NGC 4151	84	11.0	12 08 00	+39 41	L 3	2098 S O	24JUL78	21 16 00	60 00	UK016 GOOD
NGC 4151	84	11.7	12 08 00	+39 41	H 3	2170 L O	01AUG78	20 18 00	300 00	UK138 23
NGC 4151	84	11.7	12 08 00	+39 41	L 3	2171 L O	02AUG78	02 08 18	30 00	UK138 45
NGC 4151	84	11.4	12 08 00	+39 41	L 3	3048 L O	19OCT78	17 25 17	30 00	UK041 45
NGC 4151	84	11.4	12 08 00	+39 41	L 3	3048 S O	19OCT78	16 16 08	60 00	UK041 35
NGC 4151	84	11.4	12 08 00	+39 41	L 3	3049 L O	19OCT78	14 34 27	25 00	UK041 35
NGC 4151	84	11.4	12 08 00	+39 41	H 3	3114 L O	23OCT78	14 27 21	433 00	UK041 23BACKGROUND AT 100DN
NGC 4151	84	12.0	12 08 00	+39 41	L 3	3557 S C	09DEC78	12 23 45	60 00	PT037 25
NGC 4151	84	12.0	12 08 00	+39 41	L 3	3557 L O	09DEC78	11 46 32	30 00	PT037 36
NGC 4151	84	11.5	12 08 00	+39 41	H 3	3704 L O	25DEC78	11 05 20	400 00	UK033 23
NGC 4151	84	11.5	12 08 00	+39 41	L 3	3971 S O	21JAN79	13 47 03	60 00	UK026 36
NGC 4151	84	11.5	12 08 00	+39 41	L 3	3971 L O	21JAN79	13 15 13	25 00	UK026 35
NGC 4151	84	11.5	12 08 00	+39 41	L 3	3972 L O	21JAN79	15 22 05	25 00	UK026 35
MKN 205	85	14.5	12 19 37	+75 35	L 2	1346 L O	20APR78	09 30 00	30 00	UKP0P UNDEREXP
MKN 205	85	14.5	12 19 37	+75 35	L 2	3154 L O	12DEC78	11 43 00	360 00	UK13A 44
MKN 205	85	14.5	12 19 37	+75 35	L 3	1392 L O	20APR78	07 16 00	90 00	UKP0P UNDEREXP
MKN 205	85	14.5	12 19 37	+75 35	L 3	2261 L O	10AUG78	20 18 15	320 00	UK13A 55
Q1225+31	85	15.9	12 26 13	+31 44	L 3	3413 L O	22NOV78	16 06 20	220 00	UK13A 11
HD108662	36	5.3	12 26 25	+26 11	H 2	2448 S C	07NOV78	13 00 37	15 00	GM045 40
HD108662	36	5.3	12 26 25	+26 11	H 2	2449 S C	07NOV78	14 11 44	22 00	GM045 50
HD108662	36	5.3	12 26 25	+26 11	H 2	2450 S C	07NOV78	15 20 12	21 00	GM045 60
HD108662	36	5.3	12 26 25	+26 11	H 2	2494 S C	09NOV78	14 26 18	20 00	GM045 60
HD108662	36	5.3	12 26 25	+26 11	L 3	3248 S C	07NOV78	13 52 04	3 30	GM045 80SW PART OK
HD108662	36	5.3	12 26 25	+26 11	L 3	3249 S C	07NOV78	15 10 40	2 30	GM045 80SW PART OK
HD108662	36	5.3	12 26 25	+26 11	L 3	3250 S C	07NOV78	16 21 47	2 10	GM045 80SW PART OK
HD108662	36	5.3	12 26 25	+26 11	H 3	3283 S C	09NOV78	14 55 04	52 00	GM045 70
3C 273	85	13.0	12 26 33	+ 2 20	L 2	1447 S O	06MAY78	05 54 20	105 00	XGAL GOOD
3C 273	85	13.0	12 26 33	+ 2 20	L 2	1450 S O	07MAY78	01 47 00	200 00	XGAL
3C 273	85	12.8	12 26 33	+02 20	H 2	3996 L O	12MAR79	04 57 57	410 00	UK138 20
3C 273	85	13.0	12 26 33	+ 2 20	L 3	1492 S O	06MAY78	02 40 56	180 00	XGAL GOOD LYALF+CIV SATUR.
3C 273	85	13.0	12 26 33	+ 2 20	L 3	1498 S O	07MAY78	06 26 00	60 00	XGAL
3C 273	85	13.0	12 26 33	+ 2 20	L 3	1509 S C	09MAY78	02 44 00	180 00	XGAL
3C 273	85	12.8	12 26 36	+02 20	L 2	1486 L O	24JUL78	23 41 00	50 00	UK016 GOOD
3C 273	85	12.8	12 26 36	+02 20	L 2	1487 L O	25JUL78	01 41 04	40 00	UK016 GOOD
3C 273	85	12.8	12 26 36	+02 20	L 3	2099 L O	25JUL78	00 40 41	50 00	UK016 GOOD JUST SAT IN LY ALFA
3C 273	85	12.8	12 26 36	+02 20	L 3	2100 S O	25JUL78	02 31 30	70 00	UK016 VERY GOOD
M 87 GAL	86	9.0	12 28 17	+12 40	L 2	1476 L O	22JUL78	21 26 48	340 00	PT037 NO SPECTRUM
M 87 JET	86	12.0	12 28 17	+12 40	L 2	3159 L O	13DEC78	11 13 40	390 00	PT037 21
SKY	07	00.0	12 28 17	+12 40	L 2	3799 L O	19FEB79	07 31 40	300 00	GP031 11
M 87	86	10.0	12 28 17	+12 40	L 2	3814 L U	21FEB79	07 01 09	230 00	PT037 21
M 87 JET	86	13.0	12 28 17	+12 40	L 3	2085 L O	22JUL78	21 22 30	303 00	PT037 GOOD BUT NOISY IMAGE
M 87 JET	86	12.0	12 28 17	+12 40	L 3	3571 L O	11DEC78	11 37 00	370 00	PT037 20
M 87	86	12.0	12 28 17	+12 40	L 3	3584 L U	13DEC78	11 16 19	360 00	PT037 11ONLY GEOCORDNA
M 87	86	10.0	12 28 17	+12 40	L 3	4299 L O	19FEB79	07 27 12	430 00	GP036 21
M 87	86	10.0	12 28 18	+12 40	L 3	2157 L O	30JUL78	20 59 00	400 00	FBB24 UNDEREXP EX AT LONG ML
HD108945	36	5.5	12 28 30	+24 51	H 2	4043 L O	17MAR79	05 07 22	23 00	GM045 50
HD108945	36	5.5	12 28 30	+24 51	H 3	4668 L O	17MAR79	04 42 07	20 00	GM045 4021 COM
HD108945	36	5.5	12 28 30	+24 51	L 3	4669 S C	17MAR79	06 03 12	1 30	GM045 50
HD108945	36	5.5	12 28 30	+24 51	L 3	4669 L O	17MAR79	05 59 46	30 00	GM045 70
HD108945	36	5.5	12 28 31	+24 51	H 2	2451 S C	07NOV78	17 03 37	36 00	GM045 50
HD108945	36	5.5	12 28 31	+24 51	H 2	2452 S C	07NOV78	16 26 19	36 00	GM045 60
HD108945	36	5.5	12 28 31	+24 51	H 2	2493 S C	09NOV78	12 52 45	36 00	GM045 50
HD108945	36	5.5	12 28 31	+24 51	H 2	3467 S C	12JAN79	12 14 33	45 00	GM045 70
HD108945	36	5.5	12 28 31	+24 51	L 3	3251 L O	07NOV78	18 19 10	1 30	GM045 70
HD108945	36	5.5	12 28 31	+24 51	L 3	3251 S C	07NOV78	18 11 46	3 00	GM045 70
HD108945	36	5.5	12 28 31	+24 51	L 3	3252 L O	07NOV78	19 35 30	1 30	GM045 70
HD108945	36	5.5	12 28 31	+24 51	L 3	3252 S C	07NOV78	19 22 50	3 00	GM045 70
HD108945	36	5.5	12 28 31	+24 51	L 3	3281 L O	09NOV78	12 45 39	1 30	GM045 70
HD108945	36	5.5	12 28 31	+24 51	L 3	3281 S C	09NOV78	12 39 34	1 30	GM045 40
HD108945	36	5.5	12 28 31	+24 51	L 3	3282 L U	09NOV78	13 42 32	1 30	GM045 70
HD108945	36	5.5	12 28 31	+24 51	L 3	3282 S C	09NOV78	13 35 27	2 00	GM045 70
HD108945	36	5.5	12 28 31	+24 51	H 3	3497 S C	12JAN79	11 34 48	30 00	GM045 40
HD108945	36	5.5	12 28 31	+24 51	L 3	3498 L O	12JAN79	13 09 04	30 00	GM045 50
HD108945	36	5.5	12 28 31	+24 51	L 3	3498 S C	12JAN79	13 04 25	1 30	GM045 60
HD108945	26	3.8	12 31 21	+70 04	H 2	4132 L O	27MAR79	11 10 23	1 05	MHA02 50
HD108945	26	3.8	12 31 21	+70 04	H 3	4763 L O	27MAR79	11 06 04	1 10	MHA02 55

OBJECT	CL	MAG	RT	ABCN	DECLN	DISP	APERT	START	LENGTH	PROG	COMMENT			
			HR	MN	SC	DEG	OR LG	HR	MIN	SEC				
HD10935A	44	4.3	12	31	54	+41 38	M 2	1748	9	06JUL78	22 10 53	40 00	MR003	A BIT STRONG
HD10935A	44	4.3	12	31	54	+41 38	L 3	1925	8	06JUL78	22 59 42	50 00	MR003	UNDEREXPOSED
HD110066	36	6.3	12	36	51	+36 14	M 2	3942	L	01MAR79	09 08 30	55 00	MHC02	50
HD110379	40	3.6	12	39	07	-01 11	H 2	3468	S	02JAN79	15 19 08	5 00	CR031	40
HD110379	40	3.6	12	39	09	-01 11	H 2	3193	S	17DEC78	17 02 51	2 00	CR031	30GAMMA VIR
HD110379	40	3.6	12	39	09	-01 11	H 3	3625	S	17DEC78	17 08 53	30 00	CR031	30
HD110813	50	8.0	12	41	46	+61 22	L 2	4120	L	26MAR79	01 50 06	25 00	KU026	11
HD110813	50	8.0	12	41	46	+61 22	L 3	4758	L	26MAR79	11 20 02	27 00	UK026	11
EX HYA	54	13.0	12	49	42	-28 59	L 2	3435	L	09JAN79	15 10 16	35 00	UK035	55
EX HYA	54	13.0	12	49	42	-28 59	L 3	3858	L	09JAN79	14 18 57	45 00	UK035	45
+52 1661	25	11.3	12	52	18	+52 01	L 2	3304	L	27DEC78	16 16 14	27 00	FC027	10
+52 1661	25	11.3	12	52	18	+52 01	L 3	3727	L	27DEC78	16 48 07	55 00	FC027	10
HD112244	13	5.4	12	52	59	-56 34	H 2	3712	L	08FEB79	08 22 09	2 20	UK021	50
HD112244	13	5.4	12	52	59	-56 34	H 3	4193	L	08FEB79	08 31 23	5 01	UK021	6781 IV BAT
HD112413	25	2.9	12	53	41	+38 35	H 2	1477	S	12MAY78	08 41 54	1 00	VILSP	NO SPECTRUM
MKN 231	84	14.0	12	54	05	+57 09	L 2	3185	L	16DEC78	11 35 50	370 00	UK033	23
MKN 231	84	14.0	12	54	05	+57 09	L 2	4017	L	16MAR79	07 38 38	257 00	UK138	11
MKN 231	84	14.0	12	54	05	+57 09	L 2	4053	L	16MAR79	04 55 28	412 00	UK138	35
MKN 231	84	14.0	12	54	05	+57 09	L 3	3670	L	22DEC78	11 28 36	380 00	UK033	23
MKN 59	88	14.0	12	56	42	+35 08	L 2	1641	L	09JUN78	04 16 19	85 00	UK042	OK MAX DN 136
MKN 59	88	14.0	12	56	42	+35 08	L 3	1748	L	09JUN78	02 45 56	80 00	UK042	UNDEREXPOSED X 2
HD113904	10	5.6	13	04	52	-65 02	H 2	1535	S	22MAY78	02 15 12	8 30	KH052	QUITE GOOD
HD113904	10	5.6	13	04	52	-65 02	H 2	1536	S	22MAY78	03 32 07	5 00	KH052	QUITE GOOD
HD113904	10	5.5	13	04	52	-65 02	H 2	1652	S	11JUN78	01 33 16	7 00	UK02C	THETA MUS GOOD EXP
HD113904	10	5.5	13	04	52	-65 02	H 2	1659	S	12JUN78	03 56 53	8 30	KH052	A BIT STRONG
HD113904	10	5.6	13	04	52	-65 02	H 2	1697	S	20JUN78	01 13 00	8 30	KH052	GOOD FEW PIX BAT
HD113904	10	5.5	13	04	52	-65 02	H 2	1762	S	01JUL78	22 11 00	8 30	KH052	OK BUT HAS HIT 255
HD113904	10	5.5	13	04	52	-65 02	H 2	1763	S	01JUL78	23 54 16	12 00	KH052	OVEREXPOSED
HD113904	10	5.6	13	04	52	-65 02	H 3	1599	S	22MAY78	01 16 33	6 30	KH052	GOOD THETA MUS
HD113904	10	5.5	13	04	52	-65 02	H 3	1762	S	11JUN78	01 21 06	6 00	UK02C	THETA MUS GOOD EXP
HD113904	10	5.5	13	04	52	-65 02	H 3	1769	S	12JUN78	03 11 39	6 30	KH052	GOOD
HD113904	10	5.5	13	04	52	-65 02	H 3	1770	S	12JUN78	05 04 38	8 00	KH052	GOOD
HD113904	10	5.6	13	04	52	-65 02	H 3	1816	S	20JUN78	01 45 00	6 30	KH052	A BIT WEAK
HD113904	10	5.5	13	04	52	-65 02	H 3	1899	S	01JUL78	21 56 00	6 30	KH052	GOOD
HD113904	10	5.5	13	04	52	-65 02	H 3	1906	S	01JUL78	23 35 30	10 50	KH052	SLIGHTLY OVEREXPOSED
HD114710	44	4.3	13	09	32	+28 08	H 2	1744	S	02JUL78	01 24 33	34 00	MR003	OVEREXPOSED AT LONG WL
HD114710	44	4.3	13	09	32	+28 08	L 3	1901	S	02JUL78	02 07 10	32 00	MR003	WEAK
VENUS	03	-4.0	13	14	21	-09 57	L 2	2200	S	28AUG78	19 50 00	15 00	UK043	LOWING COORDS
HD116658	20	1.0	13	22	33	-10 54	H 3	3968	S	21JAN79	10 01 31	4	UK026	60ALPHA VIR
HD116658	20	1.0	13	22	42	-10 54	H 2	2222	S	30AUG78	22 48 25	5	UK022	60
HD116658	20	1.0	13	22	42	-10 54	H 3	2418	S	30AUG78	23 19 00	5	UK022	60
BV CEN	54	13.0	13	28	09	-54 43	L 2	3434	L	09JAN79	12 26 33	50 00	UK035	34
BV CEN	54	13.0	13	28	09	-54 43	L 3	3857	L	09JAN79	11 23 25	50 00	UK035	20
Q1331+17	45	16.0	13	31	10	+17 04	L 3	3544	L	06DEC78	11 27 15	378 00	UK13A	11RLIND OFFSET - FAILED?
HD118022	36	4.9	13	31	36	+03 54	H 2	3981	L	01MAR79	07 26 10	15 00	MHC02	60
HD118022	36	4.9	13	31	36	+03 54	H 3	4589	L	01MAR79	06 53 50	25 00	MHC02	10
HD118022	36	4.9	13	31	36	+03 54	H 3	4698	L	19MAR79	08 46 15	25 00	MHC02	60

OBJECT	CL	MAG	RT	ABCN	DECLN	DISP	APERT	START	LENGTH	PROG	COMMENT			
			HR	MN	SC	DEG	OR LG	HR	MIN	SEC				
FEIGE 86	23	9.2	13	36	06	+29 37	L 2	1327	S	17APR78	07 55 00	15 00	MHD02	QUITE OVEREXP
+30 2431	21	10.0	13	36	06	+29 37	L 2	3303	S	27DEC78	15 01 04	3 00	FC027	50
+30 2431	21	10.0	13	36	06	+29 37	L 2	3303	L	27DEC78	14 55 14	3 00	FC027	60
FEIGE 86	23	9.2	13	36	06	+29 37	L 3	1374	S	17APR78	05 05 00	12 00	MHD02	
+30 2431	21	10.0	13	36	06	+29 37	L 3	3723	L	27DEC78	15 13 51	4 00	FC027	50
+30 2431	21	10.0	13	36	06	+29 37	L 3	3723	S	27DEC78	15 06 33	4 00	FC027	40
+30 2431	21	10.0	13	36	06	+29 37	H 3	4616	L	13MAR79	05 25 27	270 00	MHD02	40
HD114716	20	2.3	13	36	42	-53 13	H 2	3836	S	23FEB79	09 36 48	13	LS044	60
HD114716	20	2.3	13	36	42	-53 13	H 2	3837	S	23FEB79	10 28 04	6	LS044	400K NEAR 2700A
HD114716	20	2.3	13	36	42	-53 13	H 3	4347	S	23FEB79	10 02 53	10	LS044	50
NGC 5253	88	12.7	13	37	05	-31 23	L 2	3131	L	09DEC78	16 00 16	105 00	PT037	50
NGC 5253	88	12.7	13	37	05	-31 23	L 3	3558	L	09DEC78	15 22 26	30 00	PT037	23
HD120315	21	1.9	13	45	34	+49 34	H 2	3479	S	13JAN79	14 09 13	9	UKCAL	50
HD120315	21	1.9	13	45	34	+49 34	H 2	3480	L	13JAN79	14 39 25	7	UKCAL	50
HD120315	21	1.9	13	45	34	+49 34	H 3	3909	S	13JAN79	13 43 36	10	UKCAL	50
HD120315	21	1.9	13	45	34	+49 34	H 3	3910	L	13JAN79	14 35 50	7	UKCAL	50
VV 68	70	8.3	13	50	11	-66 16	L 2	3819	L	21FEB79	13 51 40	25 00	LS044	50
VV 68	70	10.0	13	50	11	-66 16	H 2	3835	L	23FEB79	06 25 48	120 00	LS044	23
VV 68	70	8.3	13	50	11	-66 16	L 3	4324	L	21FEB79	14 21 01	27 00	LS044	45
VV 68	70	10.0	13	50	11	-66 16	H 3	4346	L	23FEB79	08 31 55	29 00	LS044	11
MKN 279	84	15.0	13	51	52	+69 33	L 2	3073	L	30NOV78	16 28 00	160 00	UK037	32NOT QUITE IN APERTURE?
MKN 279	84	15.0	13	51	52	+69 33	L 3	3497	L	30NOV78	13 21 13	180 00	UK037	34
HD121370	44	2.7	13	52	18	+18 39	H 2	2161	S	23AUG78	20 57 00	24 00	GG005	70BAT AT LW
HD121370	44	2.7	13	52	18	+18 39	H 2	2162	S	23AUG78	21 58 00	6 00	GG005	40
HD122563	46	6.2	14	00	05	+09 56	L 2	2175	L	25AUG78	18 46 00	15 00	FG004	70
HD123299	36	3.6	14	03	02	+64 37	L 2	3423	S	08JAN79	10 31 16	3 03	AR020	50
HD123299	36	3.6	14	03	02	+64 37	H 2	3424	L	08JAN79	11 40 17	4	AR020	70
HD123299	36	3.6	14	03	02	+64 37	L 2	3424	S	08JAN79	11 36 00	8	AR020	70
HD123299	36	3.6	14	03	02	+64 37	H 3	3840	S	08JAN79	09 52 53	6 28	AR020	60
HD123299	36	3.6	14	03	02	+64 37	L 3	3841	L	08JAN79	11 09 09	3	AR020	50
HD123299	36	3.6	14	03	02	+64 37	L 3	3841	S	08JAN79	11 05 23	5	AR020	50
HD124224	36	4.9	14	09	44	+02 39	H 2	3443	L	10JAN79	09 43 31	2 30	HM021	50
HD124224	36	4.9	14	09	44	+02 39	H 2	3444	L	10JAN79	10 41 17	3 00	HM021	50
HD124224	36	4.9	14	09	44	+02 39	H 2	3445	L	10JAN79	11 40 20	3 00	HM021	50
HD124224	36	4.9	14	09	44	+02 39	H 2	3446	L	10JAN79	12 45 36	3 00	HM021	50
HD124224	36	4.9	14	09	44	+02 39	H 2	3447	L	10JAN79	13 48 11	2 30	HM021	50
HD124224	36	4.9	14	09	44	+02 39	H 2	3448	L	10JAN79	14 46 56	2 30	HM021	50
HD124224	36	4.9	14	09	44	+02 39	H 2	3449	L	10JAN79	15 24 40	2 30	HM021	50
HD124224	36	4.9	14	09	44	+02 39	H 2	4044	L	17MAR79	07 05 14	2 30	HM021	50CH VIR
HD124224	36	4.9	14	09	44	+02 39	H 2	4045	L	17MAR79	08 04 21	2 30	HM021	50
HD124224	36	4.9	14	09	44	+02 39	H 2	4046	L	17MAR79	09 03 21	2 30	HM021	50
HD124224	36	4.9	14	09	44	+02 39	H 2	4047	L	17MAR79	10 00 29	2 30	HM021	50
HD124224	36													

OBJECT	CL	MAG	RT	ASCN	DFCLN	DIBP	APERT	START	LENGTH	PROG	COMMENT							
			HR	MN	SC	DEG	+CAH	IMAGE	OB	LG	DATE	HR	MN	SC	MIN	SEC		
HD124224	36	4.9	14	09	44	+02 39	H 3	3869	L 0		10JAN79	14	53	27	3 40	HM021	50	
HD124224	36	4.9	14	09	44	+02 39	H 3	3963	L 0		10JAN79	09	09	25	5 01	HM021	50	
HD124224	36	4.9	14	09	44	+02 39	H 3	4670	L 0		17MAR79	07	10	41	3 40	HM021	50	
HD124224	36	4.9	14	09	44	+02 39	H 3	4671	L 0		17MAR79	08	11	17	3 40	HM021	50	
HD124224	36	4.9	14	09	44	+02 39	H 3	4672	L 0		17MAR79	09	08	57	3 40	HM021	50	
HD124224	36	4.9	14	09	44	+02 39	H 3	4673	L 0		17MAR79	10	06	00	3 40	HM021	50	
HD124224	36	4.9	14	09	44	+02 39	H 3	4674	L 0		17MAR79	11	07	05	3 40	HM021	50	
HD124448	27	10.0	14	11	47	-46 03	L 2	3347	S C		01JAN79	09	20	17	5 00	UK017	50	
HD124448	27	10.0	14	11	47	-46 03	L 2	3347	L 0		01JAN79	09	11	01	3 00	UK017	50	
HD124448	27	10.0	14	11	47	-46 03	L 3	3769	L 0		01JAN79	09	43	31	3 00	UK017	40	
HD124448	27	10.0	14	11	47	-46 03	L 3	3769	S C		01JAN79	09	30	31	5 00	UK017	40	
HD124448	27	10.0	14	11	47	-46 03	L 3	3770	L 0		01JAN79	15	29	42	6 00	UK017	50	
HD128620	44	.3	14	13	11	-60 37	L 2	2758	S 0		30OCT78	14	48	13	6 00	RB039	400K FOR 2100A	
HD128620	44	.3	14	13	11	-60 37	L 2	2758	L 0		30OCT78	14	38	00	1 54	RB039	70AFFECTED BY SAP EXP	
HD128620	44	.3	14	13	11	-60 37	L 2	2759	L 0		30OCT78	15	40	36	2 30	RB039	600K FOR 2100A	
HD124897	46	-0.1	14	13	23	+19 26	L 3	1608	S C		23MAY78	06	57	14	40 00	UKPOP	QUITE GOOD	
1419-09	19	11.8	14	19	59	-09 04	L 3	4148	S C		04FEB79	11	26	40	5 05	UK036	40	
1419-09	19	11.8	14	19	59	-09 04	L 3	4148	L 0		04FEB79	11	18	20	3 25	UK036	50	
HD127493	16	9.5	14	29	31	+22 26	L 3	1720	L 0		05JUN78	03	15	48	1 45	KH001	OK AROUND 1650A OXP	
HD127493	16	9.5	14	29	31	+22 26	L 3	1720	S C		05JUN78	03	05	55	3 30	KH001	OK AROUND 1650A OXP	
HD127762	33	3.0	14	30	04	+38 32	H 2	1312	S C		13APR78	05	42	59	20 00	AB040	GAM ROD, OVER LW	
HD127762	33	3.0	14	30	04	+38 32	H 2	1313	S C		13APR78	08	53	57	15 00	AR040	GAM ROD, UNDEREXP.	
HD127762	33	3.0	14	30	04	+38 32	H 2	1314	S C		13APR78	09	48	21	2 00	AB040	77CAMERA NOT PREPPED	
HD127762	33	3.0	14	30	04	+38 31	H 2	3852	L 0		25FEB79	07	42	31	5 00	AR040	60GAMMA ROD	
HD127762	33	3.0	14	30	04	+38 31	H 2	3853	L 0		25FEB79	08	15	34	6 00	AR040	60	
HD127762	33	3.0	14	30	04	+38 31	H 2	3854	L 0		25FEB79	08	48	19	6 00	AR040	60	
HD127762	33	3.0	14	30	04	+38 31	H 2	3855	L 0		25FEB79	09	21	05	6 00	AR040	60	
HD127762	33	3.0	14	30	04	+38 31	H 2	3856	L 0		25FEB79	09	52	46	6 00	AR040	60	
HD127762	33	3.0	14	30	04	+38 31	H 2	3857	L 0		25FEB79	10	26	22	6 00	AR040	60	
HD127762	33	3.0	14	30	04	+38 31	H 2	3858	L 0		25FEB79	10	59	21	6 00	AR040	60	
HD127762	33	3.0	14	30	04	+38 31	H 2	3859	L 0		25FEB79	11	32	42	6 00	AR040	60	
HD127762	33	3.0	14	30	04	+38 31	H 2	3860	L 0		25FEB79	12	03	53	6 00	AR040	60	
HD127762	33	3.0	14	30	04	+38 31	H 2	3861	L 0		25FEB79	12	36	16	6 00	AR040	60	
HD127762	33	3.0	14	30	04	+38 31	H 2	3862	L 0		25FEB79	13	10	07	6 00	AR040	60	
HD127762	33	3.0	14	30	04	+38 31	H 2	3863	L 0		25FEB79	13	40	17	6 00	AR040	60	
TON 209	20	12.5	14	33	00	+24 00	L 2	3302	L 0		27DEC78	13	07	04	14 00	FC027	50	
TON 209	20	12.5	14	33	00	+24 00	L 2	3722	L 0		27DEC78	13	40	36	13 00	FC027	70	
HD128620	44	0.0	14	35	11	-60 38	H 2	1515	S C		19MAY78	06	05	38	3 00	FG004	NO SPECTRUM	
HD128620	44	0.0	14	36	11	-60 38	H 2	1467	S C		19MAY78	07	15	00	1 00	FG004		
HD128620	44	0.0	14	36	11	-60 38	H 2	1506	S C		17MAY78	02	24	21	1 00	UKPOP	START OUT AP	
HD128620	44	0.0	14	36	11	-60 38	H 2	1516	S C		19MAY78	07	27	08	10 00	FG004	NO SPECTRUM	
HD128620	44	0.0	14	36	11	-60 38	H 2	2810	S C		03NOV78	14	03	15	1 00	FG004	11	
URANIUS	03	5.7	14	39	03	-15 05	L 2	1770	S 0		02JUL78	23	51	04	30 00	UK043	OVEREXPOSED AT LONG WL	
URANIUS	03	5.7	14	39	03	-15 05	L 2	1771	S 0		03JUL78	01	33	49	15 00	UK043	RATHER OVEREXPOSED	
URANIUS	03	5.7	14	39	03	-15 05	L 2	1772	S 0		03JUL78	02	42	35	5 00	UK043	GOOD MAX DN 233	
URANIUS	03	5.7	14	39	03	-15 05	L 3	1908	S 0		03JUL78	06	27	07	60 00	UK043	WEAK SPECTRUM AT LONG WL	
+10 2910	22	12.0	14	39	24	+18 07	L 3	3301	L 0		27DEC78	11	12	29	31 00	FC027	10	
+10 2910	22	12.0	14	39	24	+18 07	L 3	3721	L 0		27DEC78	11	53	17	44 00	FC027	10	
URANIUS	03	6.0	14	40	52	-15 16	L 3	2410	S C		28AUG78	23	31	00	120 00	UK043	02	
+07 2899	16	9.5	15	05	54	+07 25	L 3	4149	S C		04FEB79	12	22	31	8 40	UK036	50	
+07 2899	16	9.5	15	05	54	+07 25	L 3	4149	L 0		04FEB79	12	34	50	5 50	UK036	40	
HD138679	23	8.9	15	32	31	-60 23	L 2	1871	L 0		22JUL78	02	58	00	2 00	UK003	GOOD MEAN DN 180	
HD138679	23	8.9	15	32	31	-60 23	L 2	1871	S 0		22JUL78	02	50	00	1 30	UK003	GOOD MAX DN 200	
HD138679	23	8.9	15	32	31	-60 23	L 3	2075	S 0		22JUL78	03	26	00	1 40	UK003	VERY GOOD	
HD138679	23	8.9	15	32	31	-60 23	L 3	2075	L 0		22JUL78	03	20	00	1 00	UK003	VERY GOOD MAX DN 280	
HD142669	20	3.9	15	33	47	-29 04	L 2	1489	S C		14MAY78	04	10	00	1 00	UKPOP	QUITE GOOD	
HD142669	20	3.9	15	33	47	-29 04	L 2	1490	S C		14MAY78	07	03	42	12 00	UKPOP	GOOD	
HD142669	20	3.9	15	33	47	-29 04	L 1	1540	S C		14MAY78	04	00	00	3 00	UKPOP	QUITE GOOD	
HD140283	41	7.2	15	40	22	-10 46	L 2	2380	S C		16SEP78	23	21	03	4 30	PSC13	66	
HD140283	41	7.2	15	40	22	-10 46	L 2	2380	L 0		16SEP78	23	10	00	4 30	PSC13	77	
HD140283	41	7.2	15	40	22	-10 46	L 3	2665	L 0		16SEP78	22	31	09	30 00	PSC13	70	
HD141527	42	5.8	15	46	31	+28 19	L 2	1587	L 0		01JUN78	01	07	16	70 00	VILSP	R CRB OVEREXP RED OF 2500	
HD141527	42	5.8	15	46	31	+28 19	L 2	2999	L 0		21NOV78	18	30	33	15 00	VILSP	70EXP TIME UNCERTAIN	
HD141527	42	6.2	15	46	31	+28 19	L 2	4081	L 0		21MAY79	04	36	05	5 00	VILSP	70	
HD141527	42	6.2	15	46	31	+28 19	H 2	4112	L 0		25MAR79	06	56	00	110 00	VILSP	60R CRB	
HD141527	42	6.2	15	46	31	+28 19	L 2	4113	L 0		25MAR79	09	39	00	2 20	VILSP	60	
HD141527	42	5.8	15	46	31	+28 19	L 3	1681	L 0		31MAY78	23	58	54	60 00	VILSP	R CRB GOOD RED OF 1600	
HD141527	42	5.8	15	46	31	+28 19	L 3	3409	L 0		21NOV78	18	59	00	47 00	VILSP	58	
HD141527	42	6.2	15	46	31	+28 19	L 3	4749	L 0		25MAY79	08	58	52	40 00	VILSP	58	
HD141795	35	3.7	15	48	19	+04 37	L 3	4409	S C		27FEB79	08	09	48	1 00	RBA41	70	
HD141795	35	3.7	15	48	19	+04 37	L 3	4409	L 0		27FEB79	08	57	27	6 00	RBA41	80EPSILON SER	
+33 2642	23	10.8	15	49	57	+33 06	H 3	4791	L 0		29MAR79	07	05	26	282 00	MHA02	50	
HD141891	40	2.8	15	50	43	-63 17	H 2	1860	S C		20JUL78	20	42	00	7 00	BN053	0XP BUT OK FOR MGII	
HD141891	40	2.8	15	50	43	-63 17	H 2	3697	L 0		07FEB79	06	31	49	4 12	BN053	70	
HD141891	40	2.8	15	50	43	-63 17	H 2	3704	L 0		07FEB79	13	25	25	2 40	BN053	50	
HD141891	40	2.8	15	50	43	-63 17	L 3	4184	L 0		07FEB79	13	32	30	2 00	BN053	70	
RU LUP	58	11.0	15	53	22	-37 40	L 2	1466	S C		10MAY78	04	00	00	120 00	GC005	GOOD	
RU LUP	58	10.0	15	53	22	-37 40	L 3	1570	L 0		18MAY78	04	41	30	180 00	GC005	QUITE GOOD	
HD142669	20	3.9	15	33	48	-29 04	L 2	1563	S C		26MAY78	03	45	18	2	UKPOP	GOOD	
HD142669	20	4.2	15	53	48	-29 04	L 2	2408	L 0		19SEP78	19	56	00	3	UK019	50MIN GAIN USED	
HD142669	20	4.2	15	53	48	-29 04	L 2	2408	S C		19SEP78	19	31	55	1	UK019	50	
HD142669	20	3.9	15	33	48	-29 04	L 3	1640	S C		26MAY78	03	36</					

OBJECT	CL	MAG	RT	ASCN	DECLN	DISP	APER	START	LENGTH	PROG	COMMENT	
			HR	MN	SC	DEG	MIN	DATE	HR	MN	SC	
HD143275	20	3.3	15	57	23	+22 29	H 3	2417 S C	30AUG78	21	22	16
HD143454	63	10.0	15	57	24	+26 04	L 2	4082 L O	21MAR79	05	29	16
T CRH	63	10.0	15	57	24	+26 04	L 3	2412 S C	29AUG78	23	40	20
HD143454	63	10.0	15	57	24	+26 04	L 3	4750 L O	25MAR79	10	33	00
HD143807	36	5.0	15	59	26	+30 00	H 2	3654 S O	02FEB79	13	00	39
HD144197	35	4.7	16	02	57	+45 02	L 3	4411 L O	27FEB79	11	39	36
HD144197	35	4.7	16	02	57	+45 02	L 3	4411 S C	27FEB79	11	26	03
MKN 297	88	13.2	16	03	01	+20 40	L 2	1545 L O	31MAY78	01	26	07
NGC 6052	88	13.2	16	03	01	+20 41	L 3	1648 L O	27MAY78	02	42	57
HD144668	33	6.9	16	05	13	-38 58	L 2	1442 L O	05MAY78	06	05	20
HD144668	33	6.9	16	05	13	-38 58	L 2	1442 S C	05MAY78	05	53	00
HD144668	33	6.9	16	05	13	-38 58	L 2	1465 S C	10MAY78	01	40	00
HD144668	33	6.9	16	05	13	-38 58	L 2	1511 L O	18MAY78	02	46	56
HD144668	33	6.9	16	05	13	-38 58	L 2	1511 S C	18MAY78	02	31	33
HD144668	33	6.9	16	05	13	-38 58	L 2	1558 S C	25MAY78	07	32	00
HD144667	22	6.7	16	05	13	-38 57	H 2	3979 L O	11MAR79	04	22	43
HD144668	30	6.4	16	05	13	-38 58	H 2	39A0 L O	11MAR79	05	26	10
HD144668	30	7.0	16	05	13	-38 58	L 2	4067 L O	19MAR79	09	49	06
HD144668	33	6.9	16	05	13	-38 58	L 3	1486 L O	05MAY78	07	04	00
HD144668	33	6.9	16	05	13	-38 58	L 3	1514 S C	10MAY78	01	54	53
HD144668	33	6.9	16	05	13	-38 58	L 3	1549 L O	18MAY78	01	36	30
HD144668	33	6.9	16	05	13	-38 58	L 3	1549 S C	18MAY78	01	02	12
HD144667	22	6.7	16	05	13	-38 57	H 3	458A L U	11MAR79	04	47	10
HD145309	36	4.3	16	07	12	+45 04	H 2	2577 S C	11OCT78	16	36	00
HD145389	36	4.3	16	07	12	+45 04	H 2	2578 S C	11OCT78	17	29	19
HD145389	36	4.3	16	07	12	+45 04	H 3	2921 S C	11OCT78	17	16	35
HD145502	20	4.0	16	09	05	-19 20	H 2	3714 L O	08FEB79	13	25	30
HD145502	20	4.0	16	09	05	-19 20	H 3	4214 L O	10FEB79	06	41	58
SCO X1	59	13.0	16	17	04	-15 31	L 2	1431 L O	03MAY78	02	07	09
SCO X1	59	13.0	16	17	04	-15 31	L 2	1432 L O	03MAY78	03	47	27
SCO-X1	59	13.0	16	17	04	-15 31	L 2	1804 L O	10JUL78	00	48	18
SCO X1	59	13.0	16	17	04	-15 31	L 2	4028 L O	15MAR79	09	39	08
SCO X1	59	13.0	16	17	04	-15 31	L 2	4029 L O	15MAR79	11	32	19
SCO X1	59	13.0	16	17	04	-15 31	L 3	1467 L O	03MAY78	01	10	23
SCO-X1	59	13.0	16	17	04	-15 31	L 3	1468 L O	03MAY78	03	00	18
SCO-X1	59	13.0	16	17	04	-15 31	L 3	1953 L O	09JUL78	23	55	00
SCO-X1	59	13.0	16	17	04	-15 31	L 3	1954 L O	10JUL78	02	12	00
SCO X1	59	13.0	16	17	04	-15 31	L 3	4641 L O	15MAR79	08	54	05
SCO X1	59	13.0	16	17	04	-15 31	L 3	4642 L O	15MAR79	10	40	08
HD147701	20	8.4	16	21	19	-24 54	L 2	2427 L O	21SEP78	22	44	56
HD147701	20	8.4	16	21	19	-24 54	L 2	2427 S C	21SEP78	22	13	23
HD147701	20	8.4	16	21	19	-24 54	L 3	2722 S C	21SEP78	23	25	24
HD147889	20	7.9	16	22	23	-24 21	L 2	1488 S C	18MAY78	01	29	00
HD147889	20	7.9	16	22	23	-24 21	L 2	2409 S C	19SEP78	21	31	45
HD147889	20	7.9	16	22	23	-24 21	L 2	2410 S C	19SEP78	23	25	14
HD147889	20	7.9	16	22	23	-24 21	L 2	2410 L O	19SEP78	22	48	23
HD147889	20	7.9	16	22	23	-24 21	L 3	1519 S C	14MAY78	01	12	00
HD147889	20	7.9	16	22	23	-24 21	L 3	2699 S C	19SEP78	22	12	50

OBJECT	CL	MAG	RT	ASCN	DECLN	DISP	APER	START	LENGTH	PROG	COMMENT	
			HR	MN	SC	DEG	MIN	DATE	HR	MN	SC	
HD148184	20	4.4	16	24	07	+18 21	H 2	1969 S C	03AUG78	20	45	52
HD148184	20	4.4	16	24	07	+18 21	H 2	1970 S C	03AUG78	22	05	05
HD148184	20	4.4	16	24	07	+18 21	H 3	2187 S C	03AUG78	21	16	00
HD148184	20	4.4	16	24	07	+18 21	H 3	2188 S C	03AUG78	22	50	00
HD148367	35	4.6	16	25	05	+08 16	L 3	4410 S C	27FEB79	10	31	11
HD148367	35	4.6	16	25	05	+08 16	L 3	4410 L U	27FEB79	10	13	20
HD147675	46	3.9	16	25	42	+78 47	H 2	2649 S C	15OCT78	14	30	00
HD148379	20	5.4	16	26	04	-46 08	H 2	1562 S C	26MAY78	01	06	06
HD148379	23	5.4	16	26	04	-46 08	H 2	1564 S C	26MAY78	05	31	34
HD148379	23	5.4	16	26	04	-46 08	H 3	4194 L O	08FEB79	09	43	39
HD148379	23	5.3	16	26	06	-46 08	H 3	4349 S C	23FEB79	12	26	40
HD148478	20	5.5	16	26	20	-26 20	H 3	2687 L O	18SEP78	21	44	16
HD148478	20	5.5	16	26	20	-26 20	H 3	2688 L O	18SEP78	23	22	55
-9 4395	22	9.4	16	28	51	+09 13	L 3	1737 S O	07JUN78	05	34	00
VESTA	05	5.7	16	28	06	-17 15	L 2	1772 L O	03JUL78	03	44	05
HD148688	23	5.3	16	28	13	+41 43	H 2	1740 S C	28JUN78	03	43	51
HD148688	23	5.3	16	28	13	+41 43	H 3	1871 S C	28JUN78	02	34	01
HD149404	13	5.5	16	32	52	+42 45	H 2	1971 S C	04AUG78	00	20	07
HD149404	13	5.5	16	32	52	+42 45	H 3	2189 S C	04AUG78	01	25	37
HD149164	13	5.8	16	32	52	+42 45	H 3	4322 S C	21FEB79	11	58	20
HD149757	12	2.6	16	34	24	+10 28	H 3	2186 S C	03AUG78	19	58	16
HD149881	23	6.6	16	34	41	+14 35	H 3	3967 S C	21JAN79	08	45	32
HD150288	21	8.7	16	38	38	-46 55	L 3	2763 S C	25SEP78	22	00	00
HD151932	11	6.6	16	48	48	+41 46	H 2	2305 S C	07SEP78	22	01	00
HD151932	11	6.6	16	48	48	+41 46	H 2	382A L O	22FEB79	10	38	05
HD151932	11	6.6	16	48	48	+41 46	L 2	3829 S C	22FEB79	11	41	22
HD151932	11	6.6	16	48	48	+41 46	L 2	3829 L O	22FEB79	11	35	10
HD151932	11	6.6	16	48	48	+41 46	H 3	4334 L O	22FEB79	10	13	28
HD151932	11	6.6	16	48	48	+41 46	L 3	4335 S C	22FEB79	11	38	42
HD151932	11	6.6	16	48	48	+41 46	L 3	4335 L O	22FEB79	11	31	39
VESTA	05	7.0	16	48	55	-22 03	L 2	2281 L O	28AUG78	22	23	00
HD152236	23	4.8	16	50	28	-42 16	L 2	1755 S C	30JUN78	23	28	12
HD152236	23	4.8	16	50	28	-42 16	L 2	1755 L O	30JUN78	23	10	06
HD152236	23	4.8	16	50	28	-42 16	H 2	1756 S C	01JUL78	00	46	13
HD152236	23	4.8	16	50	28	-42 17	H 2	2151 S C	22AUG78	19	20	00
HD152236	23	4.8	16	50	28	-42 17	H 2	2152 S C	22AUG78	20	24	05
HD152236	23	4.8	16	50	28	-42 17	H 2	2290 S C	06SEP78	16	43	00
HD152236	23	4.7	16	50	28	-42 17	H 3	1872 S C	28JUN78	05	19	42
HD152236	23	4.8	16	50	28	-42 16	L 3	1891 L O	30JUN78	23	56	03
HD152236	23	4.8	16	50	28	-42 16	L 3	1891 S C	30JUN78	23	50	22
HD152236	23	4.8	16	50	28	-42 16	H 3	1892 S C	01JUL78	01	19	43
HD152236	23	4.8	16	50	28	-42 17	H 3	2368 S C	22AUG78	18	28	00
HD152236	23	4.8	16	50	28	-42 17	H 3	2507 S C	06SEP78	17	00	00
-41 7727	20	9.4	16	50	38	+41 43	L 2	2462 L O	25SEP78	17	44	42
-41 7727	20	9.4	16	50	38	+41 43	L 2	2463 L O	25SEP78	18	28	00
-41 7727	20	9.4	16	50	38	+41 43	L 3	2761 L O	25SEP78	16	48	15
-41 7753	20	9.8	16	51	05	+41 48	L 2	2464 S O	25SEP78	20	41	35
-41 7753	20	9.8	16	51	05	+41 48	L 2	2464 L O	25SEP78	20	11	26

OBJFCT	CL	MAG	RT ASCN HR MN SC	DECLN DFG MN	DISP +CAM	APERT OR LG	DATE	START HR MN SC	LENGTH MIN SC	PROG	COMMENT
+41 7753	20	9.8	16 51 05	-41 48	L 3	2762	L O 25SEP78	19 28 00	18 00	PR030	60
MKN 501	87	13.0	16 52 12	+39 50	L 2	1377	L O 24APR78	05 02 34	150 00	UKPOP	MAX DN 40
MKN 501	87	13.0	16 52 12	+39 50	L 2	1407	L O 24APR78	08 21 37	110 00	UKPOP	MAX DN 70
MKN 501	87	14.0	16 52 12	+39 50	L 2	4757	L O 26MAR79	05 24 16	300 00	UK040	40
HD152667	59	6.2	16 53 07	-40 45	H 2	1818	S C 12JUL78	01 46 08	20 00	UK1XR	GOOD MAX DN 230
HD152667	59	6.2	16 53 07	-40 45	H 3	1952	S C 09JUL78	21 22 46	50 00	UK1XR	GOOD
HD152667	59	6.2	16 53 07	-40 45	H 3	1977	S C 12JUL78	00 31 05	50 00	UK1XR	GOOD, A FEW PIX BAT.
HD152667	59	6.2	16 53 07	-40 45	H 3	1978	L O 12JUL78	02 45 00	55 00	UK1XR	EXP HUT OK FOR SHORT WL
HD152667	59	6.2	16 53 07	-40 45	H 3	2011	S C 14JUL78	20 58 50	50 00	UK1XR	GOOD MAX DN 250
HZ HER	59	14.0	16 56 02	+35 25	L 2	1405	L O 28APR78	07 49 00	130 00	UK1XR	
HZ HER	59	13.0	16 56 02	+35 25	L 2	1811	L O 10JUL78	22 15 38	40 00	UK1XR	GOOD
HZ HER	59	14.0	16 56 02	+35 25	L 2	1826	L O 11JUL78	01 52 38	40 00	XRB02	EXP X 2 MAX DN 166
HZ HER	59	14.0	16 56 02	+35 25	L 2	1832	L O 26APR78	04 49 06	150 00	UK1XR	
HZ HER	59	13.0	16 56 02	+35 25	L 3	1962	L O 10JUL78	21 22 27	45 00	UK1XR	UNDEREXPOSED X2 IN CONT
HZ HER	59	13.0	16 56 02	+35 25	L 3	1963	L O 10JUL78	23 06 22	40 00	UK1XR	VERY GOOD
HZ HER	59	14.0	16 56 02	+35 25	L 3	1988	L O 13JUL78	02 40 23	60 00	XRB02	EXP X 2 AVG DN 70
HZ HER	59	13.5	16 56 02	+35 25	L 3	3524	S O 04DEC78	11 07 24	180 00	UK037	55
NEPTUNE	03	7.7	16 59 33	-21 12	L 2	1769	S O 02JUL78	21 49 55	15 00	UK043	GOOD MAX DN 249
NEPTUNE	03	7.7	16 59 33	-21 12	L 3	1907	S O 02JUL78	22 12 04	30 00	UK043	NO SPECTRUM
HD153919	59	6.6	17 00 33	-37 46	H 2	1437	S C 08MAY78	03 06 59	30 00	XRB01	A BIT UNDEREXP.
HD153919	59	6.6	17 00 33	-37 46	H 3	1876	S C 08MAY78	02 18 25	40 00	XRB01	GOOD
HD153919	59	6.6	17 00 33	-37 46	H 2	1817	S C 11JUL78	20 23 05	40 00	XRB02	OVEREXPOSED
HD153919	59	6.6	17 00 33	-37 46	H 2	1824	S C 12JUL78	20 32 27	33 00	XRB02	EXP AT LONG WL
HD153919	59	6.6	17 00 33	-37 46	H 2	1825	S C 12JUL78	22 13 17	20 00	XRB02	GOOD MAX DN 198
HD153919	59	6.6	17 00 33	-37 46	H 2	1827	S C 14JUL78	03 16 16	24 00	XRB02	GOOD MAX DN 210
HD153919	59	6.6	17 00 33	-37 46	H 3	1975	S C 11JUL78	21 18 37	60 00	XRB02	EXP AT LONG WL
HD153919	59	6.6	17 00 33	-37 46	L 3	1976	L O 11JUL78	23 12 50	30	XRB02	3 EXP IN LARGE SLOT
HD153919	59	6.6	17 00 33	-37 46	L 3	1985	L O 12JUL78	20 20 00	15	XRB02	2 EXP IN LARGE SLOT
HD153919	59	6.6	17 00 33	-37 46	H 3	1986	S C 12JUL78	21 18 21	48 00	XRB02	GOOD MAX DN 226
HD153919	59	6.6	17 00 33	-37 46	H 3	1987	S C 12JUL78	23 04 49	35 00	XRB02	GOOD MAX DN 220
HD153919	59	6.6	17 00 33	-37 46	L 3	1996	L O 13JUL78	21 00 00	16	XRB02	2 EXP IN LARGE SLOT
HD153919	59	6.6	17 00 33	-37 46	L 3	1997	L O 13JUL78	21 55 00	16	XRB02	2 EXP IN LARGE SLOT
HD153919	59	6.6	17 00 33	-37 46	L 3	1998	L O 13JUL78	22 53 00	16	XRB02	2 EXP IN LARGE SLOT
HD153919	59	6.6	17 00 33	-37 46	L 3	1999	L O 13JUL78	23 50 00	16	XRB02	2 EXP IN LARGE SLOT
HD153919	59	6.6	17 00 33	-37 46	L 3	2000	L O 14JUL78	00 42 00	16	XRB02	2 EXP IN LARGE SLOT
HD153919	59	6.6	17 00 33	-37 46	L 3	2001	L O 14JUL78	01 41 20	16	XRB02	1 EXP
HD153919	59	6.6	17 00 33	-37 46	H 3	2002	S C 14JUL78	02 29 03	40 00	XRB02	GOOD MAX DN 200
NEPTUNE	03	7.7	17 07 43	-21 25	L 2	1286	L O 08APR78	10 10 00	30 00	UKPOP	
HD154368	13	6.2	17 08 08	-35 23	H 2	2291	S C 06SEP78	18 58 00	43 00	UK021	50
HD154368	13	6.2	17 08 08	-35 23	H 3	2508	S C 06SEP78	19 47 00	238 00	UK021	700XP X2 AT LW
HD155385	10	7.8	17 15 49	-45 35	H 2	1353	S C 21APR78	06 20 27	20 00	UKPOP	QUITE GOOD
HD156385	10	7.8	17 15 49	-45 35	H 2	2304	S C 07SEP78	20 27 00	35 00	MH011	56
HD156385	10	7.8	17 15 49	-45 35	L 2	3810	L O 22FEB79	12 51 38	10	UK02A	46
HD156385	10	7.8	17 15 49	-45 35	L 2	3830	S C 22FEB79	12 45 34	21	UK02A	46
HD156385	10	7.8	17 15 49	-45 35	H 3	1395	S C 21APR78	05 09 21	20 00	UKPOP	SLIGHTLY UNDEREXP.
HD156385	10	7.8	17 15 49	-45 35	H 3	2519	S C 07SEP78	21 05 00	30 00	MH011	56
HD156385	10	7.8	17 15 49	-45 35	L 3	4336	L O 22FEB79	12 48 56	9	UK02A	45
HD156385	10	7.8	17 15 49	-45 35	L 3	4336	S C 22FEB79	12 43 04	18	UK02A	46
HD156359	13	9.7	17 16 36	-62 52	H 2	4092	L O 23MAR79	07 50 47	65 00	UK02B	50
HD156359	13	9.7	17 16 36	-62 52	H 3	4733	L O 23MAR79	08 59 21	168 00	UK02B	70
HD159532	40	1.9	17 33 43	-42 58	H 2	3776	L O 15FEB79	13 22 02	3 00	FM050	60THETA BCD
HD159532	40	1.9	17 33 43	-42 58	H 3	4268	L O 15FEB79	13 28 00	10 00	FM050	60
HD159492	31	5.2	17 33 59	-54 28	L 2	3880	L O 27FEB79	13 41 38	15	RBA41	50
HD159492	31	5.2	17 33 59	-54 28	L 2	3880	S C 27FEB79	13 36 08	1 00	RBA41	60
HD159492	31	5.2	17 33 59	-54 28	L 3	4412	S C 27FEB79	13 13 39	4 00	RBA41	60
HD159492	31	5.2	17 33 59	-54 28	L 3	4412	L O 27FEB79	12 48 52	17 00	RBA41	70
1735+22	19	11.5	17 35 20	+22 11	L 3	4150	S C 04FEB79	13 35 00	4 40	UK036	50
1735+22	19	11.5	17 35 20	+22 11	L 3	4150	L O 04FEB79	13 28 00	3 05	UK036	50
HD160641	13	9.8	17 38 55	-17 53	L 3	1396	S C 21APR78	09 57 00	13 00	UKPOP	NOPREP
HD160578	20	2.2	17 39 01	-39 00	H 2	3838	S C 23FEB79	11 27 05	12	LS044	60
HD160578	20	2.2	17 39 01	-39 00	H 2	3839	S C 23FEB79	11 53 40	12	LS044	50
HD160578	20	2.2	17 39 01	-39 00	H 3	4348	S C 23FEB79	11 11 28	12	LS044	50
HD160578	20	2.2	17 39 02	-39 00	H 3	4323	S C 21FEB79	13 19 34	15	LS044	70
HD161291	23	6.9	17 42 42	-27 10	L 3	1343	S C 10APR78	09 13 00	60 00	PB030	UNDEREXP.
HD161797	44	3.4	17 44 30	+27 45	H 2	3014	S C 23NOV78	18 34 14	23 00	CB031	50
HD161797	44	3.4	17 44 30	+27 45	H 3	3420	S C 23NOV78	18 02 17	13 00	CB031	10
HD161797	44	3.4	17 44 30	+27 45	L 3	3429	L O 23NOV78	19 41 53	4 00	CB031	30
HD161797	44	3.4	17 44 30	+27 45	L 3	3429	S O 23NOV78	19 23 03	13 00	CB031	30
HD161797	44	3.4	17 44 30	+27 45	L 3	3652	L O 20DEC78	13 43 22	20 00	CB031	23MU HER
+39 3226	16	10.2	17 44 52	+39 20	L 2	1577	S C 29MAY78	05 12 00	2 00	UKPOP	GOOD
+39 3226	16	9.8	17 44 52	+39 20	L 2	1856	L O 20JUL78	03 14 00	2 20	UK003	A BIT OXP
+39 3226	16	9.8	17 44 52	+39 20	L 2	1856	S O 20JUL78	03 04 00	2 20	UK003	OK
+39 3226	16	10.2	17 44 52	+39 20	L 3	1663	S C 29MAY78	05 05 01	1 00	UKPOP	VERY WEAK
+39 3226	16	9.8	17 44 52	+39 20	L 3	4312	S C 20FEB79	12 08 06	1 00	UK02A	60
+39 3226	16	9.8	17 44 52	+39 20	L 3	4312	L O 20FEB79	12 04 05	40	UK02A	70
HD162978	13	6.2	17 51 49	-24 52	H 2	3713	L O 08FEB79	12 05 20	6 00	UK021	50
HD162978	13	6.2	17 51 49	-24 52	H 3	4195	L O 08FEB79	12 24 13	10 00	UK021	66
HD163506	42	5.2	17 53 24	+26 03	H 2	1751	S C 30JUN78	04 34 10	65 00	UK06A	A BIT WEAK
HD164032	23	7.5	17 57 15	-29 48	L 2	1296	S C 10APR78	06 30 00	10 00	PR030	GOOD
HD164032	23	7.5	17 57 15	-29 48	L 3	1342	S C 10APR78	04 52 00	7 00	PB030	GOOD, BAD FOCUS
HD164353	24	4.0	17 58 08	+02 56	H 2	2153	S C 22AUG78	22 22 03	4 30	UK031	70
HD164353	24	4.0	17 58 08	+02 56	H 3	2369	S C 22AUG78	22 12 00	6 00	UK031	70
HD164353	24	4.0	17 58 08	+02 56	H 3	4267	L O 15FEB79	12 45 44	2 00	FM050	50
HD164270	10	9.0	17 58 26	-32 43	L 2	3874	S O 26FEB79	13 34 59	2 00	UK02A	56
HD164270	10	9.0	17 58 26	-32 43	L 2	3874	L O 26FEB79	13 29 15	1 00	UK02A	56
HD164270	10	9.0	17 58 26	-32 43	L 3	4337	S C 22FEB79	13 37 16	3 00	UK02A	45
HD164270	10	9.0	17 58 26	-32 43	L 3	4337	L O 22FEB79	13 32 30	1 30	UK02A	34
NGC 6543	70	9.0	17 58 36	+66 30	L 3	1711	L O 04JUN78	05 13 04	5 00	UK008	OK MAX DN 150
M 8	73	14.0	18 00 37	-24 23	L 2	1983	L O 09AUG78	22 32 45	30 00	LS017	22RADIO PEAK
M 8	73	14.0	18 00 37	-24 23	L 3	2203	L O 09AUG78	21 39 57	12 00	LS017	22RADIO PEAK
M 8	73	14.0	18 00 37	-24 23	L 3	2204	L O 09AUG78	23 16 09	60 00	LS017	20RADIO PEAK
HD164794	14	5.9	18 00 48	-24 22	H 2	1982	S C 09AUG78	20 49 39	26 00	LS017	760XP IN LW PART
HD164794	14	5.9	18 00 48	-24 22	H 2	1984	S C 09AUG78	00 32 10	12 00	LS017	40
HD164794	13	6.0	18 00 48	-24 22	H 2	2508	S C 30SEP78	20 32 00	18 00	RD016	70LW BAT
HD164794	13	6.0	18 00 48	-24 22	H 2	2510	S C 30SEP78	22 49 03	11 00	RD016	50
HD164794	14	5.9	18 00 48	-24 22	H 3	2202	S C 09AUG78	19 40 29	17 00	LS017	760XP IN LW PART

OBJECT	CL	MAG	RT ASCN HR MN SC	DECLN DEG MN	DISP +CAM	APERT IMAGE OB LG	DATE	START HR MN SC	LENGTH MIN SC	PROG	COMMENT
HD164794	14	5.9	18 00 48	-24 22	H 3	2205 B C	05AUG78	01 00 02	8 00	LS017	48
HD164794	13	6.0	18 00 48	-24 22	H 3	2815 S C	30SEP78	21 06 15	12 00	RD016	60
HD164794	13	6.0	18 00 48	-24 22	H 3	2816 S C	30SEP78	22 17 37	9 00	RD016	50
HD164816	13	7.1	18 00 53	-24 19	H 2	2507 B C	30SEP78	19 05 42	41 00	RD016	70SAT AT LM
HD164816	13	7.1	18 00 53	-24 19	H 2	2509 S C	30SEP78	21 39 10	30 00	RD016	60
HD164816	13	7.1	18 00 53	-24 19	H 3	2814 S C	30SEP78	19 52 17	30 00	RD016	60
HD165908	41	5.0	18 05 08	+30 33	L 2	2379 S C	16SEP78	21 40 32	50	PSC13	66
HD165908	41	5.0	18 05 08	+30 33	L 2	2379 L C	16SEP78	21 34 30	50	PSC13	77
HD165763	10	8.2	18 05 22	+21 16	H 2	2303 B C	07SEP78	16 38 00	30 00	MH011	45
HD165763	10	8.2	18 05 22	+21 16	H 3	2514 S C	07SEP78	19 13 00	20 00	MH011	45
HD165763	10	8.0	18 05 23	+21 16	L 2	3809 B C	20FEB79	13 09 49	14	UK02A	35
HD165763	10	8.0	18 05 23	+21 16	L 2	3809 L C	20FEB79	13 06 07	9	UK02A	35
HD165763	10	8.0	18 05 23	+21 16	L 3	4313 L C	20FEB79	13 02 41	6	UK02A	45
HD165763	10	8.0	18 05 23	+21 16	L 3	4313 B C	20FEB79	12 59 10	9	UK02A	34
NGC 6572	70	9.0	18 09 42	+06 51	L 2	2271 L C	04SEP78	17 53 00	10 00	MH011	55
NGC 6572	70	9.0	18 09 42	+06 51	L 3	2885 L C	04SEP78	17 34 53	10 00	MH011	37
NGC 6572	70	9.0	18 09 42	+06 51	L 3	2886 L C	04SEP78	18 26 00	3 00	MH011	35
AM HFR	59	12.5	18 14 59	+09 51	L 2	1833 L C	03MAY78	06 44 28	30 00	KRB01	GOOD
AM HFR	59	13.0	18 14 59	+09 51	L 2	1812 L C	11JUL78	02 11 19	30 00	UK1XR	GOOD
AM HFR	59	12.4	18 14 59	+09 51	L 3	1850 S C	01MAY78	04 37 28	180 00	KRB01	GOOD
AM HFR	59	12.5	18 14 59	+09 51	L 3	1869 S C	03MAY78	05 47 45	45 00	KRB01	GOOD
AM HFR	59	13.0	18 14 59	+09 51	L 3	1964 L C	11JUL78	01 44 00	20 00	UK1XR	GOOD
AM HFR	59	13.0	18 14 59	+09 51	L 3	1965 S C	11JUL78	03 16 18	25 00	UK1XR	OK
AM HFR	59	13.0	18 14 59	+09 51	L 3	1965 L C	11JUL78	02 50 10	5 00	UK1XR	UNDEREXPOSED
HD168476	27	9.4	18 18 59	+56 39	L 2	1507 S C	17MAY78	03 52 10	10 00	UKPOP	DN SW OXP LM
HD168476	27	9.4	18 18 59	+56 39	L 3	1557 S C	16MAY78	06 44 54	45 00	UKPOP	OVEREXP
HD168476	27	9.4	18 19 00	+56 39	H 2	1664 S C	14JUN78	01 16 00	40 00	UK017	VERY WEAK
HD168476	27	9.4	18 19 00	+56 39	H 2	1665 S C	14JUN78	03 36 29	120 00	UK017	UNDEREXP MAX DN 120
HD168476	27	9.4	18 19 00	+56 39	H 3	1762 S C	14JUN78	02 05 09	80 00	UK017	VERYWEAK
HD168733	36	5.4	18 19 30	+36 42	H 2	2461 B C	08NOV78	19 03 16	12 00	MH021	70
HD168733	36	5.4	18 19 30	+36 42	H 3	3270 S C	08NOV78	18 37 31	15 00	MH021	70
HD168905	21	5.2	18 20 40	+44 08	L 2	1893 L C	25JUL78	21 13 00	4	VILSP	A BIT SAT.
HD168905	21	5.2	18 20 40	+44 08	L 2	1893 S C	25JUL78	21 11 44	4	VILSP	GOOD
HD168905	21	5.2	18 20 40	+44 08	L 3	2187 L C	25JUL78	21 19 00	3	VILSP	GOOD
HD168905	21	5.2	18 20 40	+44 08	L 3	2187 S C	25JUL78	21 17 13	3	VILSP	GOOD
3C 382	86	14.5	18 31 12	+32 39	L 3	1530 L C	13MAY78	04 56 31	165 00	UKPOP	UNDEREXP
3C 382	86	14.5	18 33 12	+32 39	L 2	1479 L C	13MAY78	01 08 25	180 00	UKPOP	MAXDN=130
3C 382	86	14.7	18 33 12	+32 39	L 2	1915 L C	29JUL78	22 06 00	120 00	UK016	A BIT WEAK MAX DN 120
3C 382	86	14.7	18 33 12	+32 39	L 3	4817 L C	31MAR79	05 19 00	390 00	UK016	34
ANON	31	12.0	18 37 46	+22 57	L 2	3946 L C	07MAR79	04 57 28	35 00	LHB07	30
ANON	31	12.0	18 37 46	+22 57	L 2	3949 L C	07MAR79	06 22 59	70 00	LHB07	50
Y34A SGR	26	12.0	18 37 46	+22 57	L 2	3969 L C	09MAR79	10 31 32	76 00	LHB07	40
ANON	31	12.0	18 37 46	+22 57	L 3	4521 L C	07MAR79	05 39 20	39 00	LHB07	20
3C 390.3	86	15.0	18 45 31	+79 43	L 2	3057 L C	28NOV78	16 48 40	190 00	UK037	34READ DOWN AT 68FC
3C 390.3	86	15.0	18 45 31	+79 43	L 3	3478 L C	28NOV78	13 27 20	180 00	UK037	34
3C 390.3	86	15.0	18 45 38	+79 43	L 3	4276 L C	16FEB79	07 10 40	397 00	UK016	25RLIND OFFBET
HD174638	25	3.4	18 48 14	+33 19	H 2	1328 S C	17APR78	09 54 45	4 00	MHA02	
HD174638	25	3.4	18 48 14	+33 19	H 2	1397 S C	27APR78	07 30 00	2	MHA02	GOOD
HD174638	25	3.4	18 48 14	+33 19	H 3	1375 S C	17APR78	08 55 00	8 00	MHA02	OKP LM
HD174638	25	3.4	18 48 14	+33 19	H 3	1386 S C	19APR78	09 33 00	2 00	MHA02	GOOD
HD174638	25	3.4	18 48 14	+33 19	H 3	1426 S C	27APR78	06 45 00	2	MHA02	GOOD
HD174933	36	5.4	18 50 08	+21 22	H 2	2576 S C	11OCT78	14 36 58	14 00	UK025	60
HD174933	36	5.4	18 50 08	+21 22	H 3	2920 S C	11OCT78	14 57 45	25 00	UK025	70
NGC 6720	70	9.0	18 51 44	+32 56	L 2	2272 L C	04SEP78	20 24 38	10 00	MH011	22BLIND OFFBET
NGC 6720	70	9.0	18 51 44	+32 56	L 2	2273 L C	04SEP78	21 47 40	30 00	MH011	23
NGC 6720	70	9.0	18 51 44	+32 56	L 3	2487 L C	04SEP78	21 02 30	10 00	MH011	23
NGC 6720	70	9.0	18 51 44	+32 56	L 3	2488 L C	04SEP78	22 32 00	60 00	MH011	35
HD175191	20	2.1	18 52 12	+26 22	H 2	2218 S C	30AUG78	18 37 00	8	UK022	40
HD175191	20	2.1	18 52 12	+26 22	H 2	2219 S C	30AUG78	19 06 45	12	UK022	50
HD175191	20	2.1	18 52 12	+26 22	H 3	2416 S C	30AUG78	19 50 54	25	UK022	70
HD175754	12	7.0	18 54 39	+19 13	H 2	2506 S C	30SEP78	16 26 00	36 00	RD016	60
HD175754	12	7.0	18 54 39	+19 13	H 3	2813 S C	30SEP78	17 31 52	40 00	RD016	70SAT AT LM
S CR A	58	11.5	18 57 48	+37 01	L 2	1645 L C	10JUN78	00 22 00	80 00	BW019	GOOD BUT NG OXP
S CR A	58	11.5	18 57 48	+37 01	L 3	1755 L C	10JUN78	02 14 49	200 00	BW019	WEAK
HD177566	23	10.2	19 03 35	+41 48	H 3	4726 L C	22MAR79	10 37 11	70 00	UK028	50
HD181615	36	4.6	19 18 52	+16 03	H 2	1361 S C	22APR78	06 24 26	10 00	MHA02	GOOD U SGR
HD181615	36	4.6	19 18 52	+16 03	H 2	1528 S C	21MAY78	02 15 00	10 00	MHA02	OK LMJ NU SGR
HD181615	34	4.6	19 18 52	+16 03	H 2	1909 S C	28JUL78	23 05 00	10 00	MHA02	
HD181615	34	4.6	19 18 52	+16 03	H 2	1910 S C	29JUL78	01 52 00	20 00	MHA02	
HD181615	36	4.6	19 18 52	+16 03	H 3	1398 S C	22APR78	04 44 12	60 00	MHA02	GOOD U SGR
HD181615	36	4.6	19 18 52	+16 03	H 3	1592 S C	21MAY78	02 35 00	60 00	MHA02	GOOD
HD181615	34	4.6	19 18 52	+16 03	H 3	1856 S C	25JUN78	23 37 31	60 00	MHC02	OK MAX DN 150
HD181615	34	4.6	19 18 52	+16 03	H 3	2136 S C	28JUL78	23 35 00	60 00	MHA02	
HD181615	34	4.6	19 18 52	+16 03	H 3	2137 S C	29JUL78	02 20 00	75 00	MHA02	
HD182917	39	6.0	19 23 14	+50 08	L 2	3983 S C	11MAR79	11 33 45	8 00	MHC02	70
HD182917	39	6.0	19 23 14	+50 08	L 2	3983 L C	11MAR79	11 15 45	12 00	MHC02	80
HD182917	39	6.0	19 23 14	+50 08	H 2	4066 L C	19MAR79	04 56 10	180 00	MHC02	78
HD182917	39	6.0	19 23 14	+50 08	H 2	4111 L C	25MAR79	04 32 52	45 00	MHA02	57
HD182917	57	7.0	19 23 14	+50 09	L 3	1399 S C	22APR78	09 00 00	45 00	MHA02	GOOD CH CYG
HD182917	48	7.0	19 23 14	+50 08	L 3	2163 L C	31JUL78	23 35 00	20 00	MHA02	GOOD
HD182917	39	6.0	19 23 14	+50 08	L 3	4590 L C	11MAR79	10 46 23	13 00	MHC02	67
HD185144	46	4.7	19 32 31	+69 34	H 2	2632 S C	17OCT78	15 55 06	100 00	UK020	66
HM SGE	71	10.8	19 39 48	+16 38	L 2	2246 L C	02SEP78	18 45 01	10 00	DF010	27
HM SGE	71	10.8	19 39 48	+16 38	L 2	2249 L C	02SEP78	20 49 16	6 00	DF010	16
HM SGE	71	10.8	19 39 48	+16 38	L 3	2452 L C	02SEP78	18 30 35	5 00	DF010	14
HM SGE	71	10.8	19 39 48	+16 38	L 3	2453 L C	02SEP78	19 20 10	9 00	DF010	15
HM SGE	71	10.6	19 39 48	+16 38	L 3	2454 S C	02SEP78	20 01 51	40 00	DF010	02
NGC 6826	70	9.7	19 43 27	+50 24	H 2	2702 L C	24OCT78	21 05 00	8 00	MP028	60
NGC 6826	70	9.7	19 43 27	+50 24	L 2	2702 S C	24OCT78	20 48 27	4 00	MP028	60
NGC 6826	70	9.7	19 43 27	+50 24	L 2	2702 L C	24OCT78	20 35 52	4 00	MP028	60
NGC 6826	70	9.7	19 43 27	+50 24	H 3	3132 L C	24OCT78	21 32 58	8 00	MP028	50
NGC 6826	70	9.7	19 43 27	+50 24	L 3	3132 S C	24OCT78	21 26 19	2 00	MP028	50
NGC 6826	70	9.7	19 43 27	+50 24	L 3	3132 L C	24OCT78	21 19 43	2 00	MP028	50
HD187282	11	10.6	19 46 18	+18 04	L 2	3873 S C	26FEB79	12 31 43	2 30	UK02A	33
HD187282	11	10.6	19 46 18	+18 04	L 2	3873 L C	26FEB79	12 26 30	1 35	UK02A	34
HD187282	11	10.6	19 46 18	+18 04	L 3	4398 S C	26FEB79	12 17 44	4 00	UK02A	45

OBJECT	CL	MAG	RT	ASCN	DECLN	DISP	APERT	START	LENGTH	PROG	COMMENT			
			HR	MN	SC	DEG	MIN	HR	MN	SC	MIN	SC		
HD1872A2	11	10.6	19	46	18	+18 04	L 3	4398	L 0	26FEB79	12 10 36	2 00	UK02A	45
HD187642	31	.A	19	48	20	+08 44	H 2	3012	S C	23NOV78	13 20 00	1 00	CB031	70
HD187642	31	0.7	19	48	20	+08 44	L 3	1654	S C	28MAY78	04 40 00	100 00	UKPOP	VERY OVEREXP
HD187642	31	.A	19	48	20	+08 44	H 3	3426	S C	23NOV78	13 40 19	1 00	CB031	50
HD187642	31	.A	19	48	20	+08 44	H 3	3427	L 0	23NOV78	14 15 03	100 00	CB031	9000 MUCH SCATTER LIGHT
V1016CYG	57	9.0	19	55	18	+39 41	H 2	2227	S C	31AUG78	18 14 08	60 00	DF010	15
V1016CYG	57	9.0	19	55	18	+39 41	H 2	2228	L 0	31AUG78	19 55 22	15 00	DF010	16
V1016CYG	57	9.0	19	55	18	+39 41	L 2	2229	L 0	31AUG78	21 46 49	40 00	DF010	19
V1016CYG	57	9.0	19	55	18	+39 41	H 3	2425	S C	31AUG78	19 20 46	20 00	DF010	14
V1016CYG	57	9.0	19	55	18	+39 41	H 3	2426	S C	31AUG78	20 39 14	60 00	DF010	16
V1016CYG	57	9.0	19	55	18	+39 41	L 3	2427	L 0	31AUG78	22 36 20	40 00	DF010	49
V1016CYG	57	11.0	19	55	20	+39 41	H 2	1581	S C	30MAY78	06 12 25	30 00	HM011	UXP
V1016CYG	57	11.5	19	55	20	+39 41	L 2	2011	L 0	08AUG78	01 59 00	40 00	VB032	10
V1016CYG	57	11.0	19	55	20	+39 41	H 3	1609	S C	30MAY78	05 08 24	40 00	HM011	UXP CONT
HD22686A	13	A.9	19	56	29	+35 04	L 2	3094	L 0	03DEC78	12 32 18	60 00	HM043	80
HD22686A	59	A.9	19	56	29	+35 04	L 2	3109	L 0	05DEC78	13 13 10	20 00	HM043	70
HD22686A	59	8.9	19	56	29	+35 04	L 2	3121	L 0	07DEC78	15 35 27	10 00	HM043	50
HD22686A	13	8.9	19	56	29	+35 04	L 3	3518	L 0	03DEC78	11 01 18	53 18	HM043	50
HD22686A	59	8.9	19	56	29	+35 04	L 3	3515	L 0	05DEC78	11 58 55	60 00	HM043	50
SC 405	86	16.2	19	57	44	+00 36	L 3	4257	L 0	19FEB79	10 41 12	185 00	UK016	11RLINO OFFSET
HD189849	35	4.7	19	59	02	+27 37	L 3	4407	L 0	27FEB79	06 7 09	10 00	PR441	80
HD189849	35	4.7	19	59	02	+27 37	L 3	4407	S C	27FEB79	06 36 31	2 45	PR441	7015 VUL
HD189849	35	4.7	19	59	02	+27 37	L 3	4408	L 0	27FEB79	07 37 14	34 00	PR441	80
RR TEL	57	9.8	20	00	19	-55 52	L 2	1698	S C	20JUN78	05 25 00	15 00	VILSP	GOOD
RR TEL	57	9.8	20	00	20	-55 52	L 2	1850	S C	19JUL78	00 53 48	10 00	VILSP	OVEREXP
RR TEL	57	10.7	20	00	20	-55 52	H 2	2021	L 0	08AUG78	20 17 24	150 00	VILSP	OK BUT MG II SAT
RR TEL	57	10.7	20	00	20	-55 52	L 2	2022	L 0	09AUG78	02 12 17	5 00	VILSP	56
RR TEL	57	10.0	20	00	20	-55 52	H 2	2493	L 0	26SEP78	23 01 17	43 00	VILSP	11
RR TEL	57	10.0	20	00	20	-55 52	H 2	2995	L 0	21NOV78	13 34 53	24 25	VILSP	07
RR TEL	57	10.0	20	00	20	-55 52	H 2	2996	L 0	21NOV78	14 39 59	5 01	VILSP	05
RR TEL	63	10.3	20	00	20	-55 52	H 2	3088	L 0	28FEB79	06 58 28	20 00	VILSP	06
RR TEL	63	10.3	20	00	20	-55 52	H 2	3089	S C	28FEB79	08 11 57	40 00	VILSP	06
RR TEL	57	9.8	20	00	20	-55 52	L 3	2046	L 0	19JUL78	01 56 18	10 01	VILSP	EM LINES SAT
RR TEL	57	9.8	20	00	20	-55 52	L 3	2046	S C	19JUL78	01 43 07	5 00	VILSP	EM LINES SAT
RR TEL	57	9.8	20	00	20	-55 52	L 3	2047	L 0	19JUL78	03 09 15	2 00	VILSP	3 EM LINES SAT
RR TEL	57	9.8	20	00	20	-55 52	H 3	2108	S C	25JUL78	22 56 00	210 00	VILSP	NO SPECTRUM
RR TEL	57	10.7	20	00	20	-55 52	H 3	2207	L 0	08AUG78	22 54 22	180 00	VILSP	36
RR TEL	57	10.0	20	00	20	-55 52	H 3	3405	L 0	21NOV78	12 52 49	36 00	VILSP	07
RR TEL	57	10.0	20	00	20	-55 52	H 3	3406	L 0	21NOV78	14 07 41	7 30	VILSP	06
RR TEL	57	10.0	20	00	20	-55 52	H 3	3407	L 0	21NOV78	15 18 00	1 30	VILSP	04
RR TEL	63	10.3	20	00	20	-55 52	H 3	4431	L 0	28FEB79	06 33 02	20 00	VILSP	06
RR TEL	63	10.3	20	00	20	-55 52	H 3	4432	S C	28FEB79	07 26 58	40 00	VILSP	06
HD190248	44	3.6	20	03	50	-66 19	H 2	2190	S C	27AUG78	20 20 00	40 00	BN053	80
HD190248	44	3.6	20	03	50	-66 19	H 2	3698	L 0	07FEB79	07 19 19	22 00	BN053	65
HD190248	44	3.6	20	03	50	-66 19	H 2	1861	S C	20JUL78	22 01 00	41 00	BN053	HELL EXP AT LONG WL
HD190248	44	3.5	20	03	51	-66 19	L 2	2520	L 0	01OCT78	19 16 12	10 00	UK001	70
HD190248	44	3.5	20	03	51	-66 19	L 3	2827	L 0	01OCT78	18 23 21	40 00	UK001	40

OBJECT	CL	MAG	RT	ASCN	DECLN	DISP	APERT	START	LENGTH	PROG	COMMENT			
			HR	MN	SC	DEG	MIN	HR	MN	SC	MIN	SC		
HD190248	44	3.5	20	03	51	-66 19	L 3	2828	L 0	01OCT78	19 51 28	110 00	UK001	60
WZ SGE	54	10.0	20	05	18	+17 33	L 2	3167	S C	14DEC78	11 34 15	2 00	UK035	30
WZ SGE	54	10.0	20	05	18	+17 33	L 2	3167	L 0	14DEC78	11 26 25	4 00	UK035	70
WZ SGE	54	10.0	20	05	18	+17 33	L 2	3168	S C	14DEC78	12 41 01	4 00	UK035	50
WZ SGE	54	10.0	20	05	18	+17 33	L 2	3168	L 0	14DEC78	12 26 16	2 00	UK035	50
WZ SGE	54	10.0	20	05	18	+17 33	L 2	3169	S C	14DEC78	14 36 47	4 00	UK035	30PHOB DRIFTED OUT
WZ SGE	54	10.0	20	05	18	+17 33	L 2	3169	L 0	14DEC78	13 24 37	2 00	UK035	50
WZ SGE	54	11.0	20	05	18	+17 33	H 2	3261	L 0	24DEC78	11 20 04	120 00	UK007	45FIVE EXPOSURES ADDED
WZ SGE	54	11.0	20	05	18	+17 33	L 2	3262	L 0	24DEC78	15 57 00	2 00	UK007	40
WZ SGE	54	11.0	20	05	18	+17 33	L 2	3262	S C	24DEC78	16 06 23	4 00	UK007	40
WZ SGE	54	8.5	20	05	18	+17 33	H 3	3527	L 0	04DEC78	17 11 00	35 00	UKT00	43
WZ SGE	54	10.0	20	05	18	+17 33	L 3	3591	L 0	14DEC78	10 57 25	4 00	UK035	45
WZ SGE	54	10.0	20	05	18	+17 33	L 3	3591	S C	14DEC78	10 50 00	2 00	UK035	34
WZ SGE	54	10.0	20	05	18	+17 33	L 3	3592	S C	14DEC78	12 48 53	8 00	UK035	67
WZ SGE	54	10.0	20	05	18	+17 33	L 3	3592	L 0	14DEC78	12 31 19	4 00	UK035	55
WZ SGE	54	10.0	20	05	18	+17 33	L 3	3593	S C	14DEC78	14 11 06	6 00	UK035	23DRIFTED OUT
WZ SGE	54	10.0	20	05	18	+17 33	L 3	3593	L 0	14DEC78	14 04 08	3 30	UK035	55
WZ SGE	54	10.0	20	05	18	+17 33	L 3	3594	S C	14DEC78	15 55 55	6 00	UK035	55NOISY IMAGE
WZ SGE	54	10.0	20	05	18	+17 33	L 3	3594	L 0	14DEC78	15 24 10	15 00	UK035	23SET TO TRAIL TOO FAST
WZ SGE	54	10.0	20	05	18	+17 33	H 3	3595	L 0	14DEC78	16 43 21	62 00	UK035	33CROSSED BY LOW RES BP
WZ SGE	54	10.0	20	05	18	+17 33	L 3	3595	L 0	14DEC78	16 39 40	2 00	UK035	55DURATION APPROX ONLY
WZ SGE	54	11.0	20	05	18	+17 33	L 3	3687	S C	24DEC78	11 07 28	8 00	UK007	55
WZ SGE	54	11.0	20	05	18	+17 33	L 3	3687	L 0	24DEC78	10 37 02	20 00	UK007	55SINGLE TRAIL
WZ SGE	54	11.0	20	05	18	+17 33	L 3	3688	L 0	24DEC78	12 00 30	4 00	UK007	55
WZ SGE	54	11.0	20	05	18	+17 33	L 3	3688	S C	24DEC78	11 49 33	6 00	UK007	45
WZ SGE	54	11.0	20	05	18	+17 33	L 3	3689	L 0	24DEC78	12 53 14	4 00	UK007	55
WZ SGE	54	11.0	20	05	18	+17 33	L 3	3689	S C	24DEC78	12 41 07	7 00	UK007	55
WZ SGE	54	11.0	20	05	18	+17 33	L 3	3690	L 0	24DEC78	13 44 38	4 00	UK007	55
WZ SGE	54	11.0	20	05	18	+17 33	L 3	3690	S C	24DEC78	13 32 37	7 00	UK007	55
WZ SGE	54	11.0	20	05	18	+17 33	L 3	3691	L 0	24DEC78	14 34 56	4 00	UK007	55
WZ SGE	54	11.0	20	05	18	+17 33	L 3	3691	S C	24DEC78	14 22 45	7 00	UK007	55
WZ SGE	54	11.0	20	05	18	+17 33	H 3	3692	L 0	24DEC78	15 14 41	120 00	UK007	33THO EXPOSURES ADDED
WZ SGE	54	8.5	20	05	19	+17 33	H 2	3108	L 0	05DEC78	10 45 56	30 00	VILSP	40
HD191765	11	8.3	20	08	22	+36 02	L 2	3624	S C	30JAN79	13 00 26	1 00	HM011	47
HD191765	11	8.3	20	08	22	+36 02	L 2	3624	L 0	30JAN79	12 54 09	2 00	HM011	35
HD191765	11	8.3	20	08	22	+36 02	H 2	3625	L 0	30JAN79	14 29 04	50 00	HM011	47
HD191765	11	8.3	20	08	22	+36 02	L 2	3626	L 0	30JAN79	15 44 26	4 00	HM011	67
HD191765	11	8.3	20	08	22	+36 02	L 3	4087	S C	30JAN79	13 10 23	2 00	HM011	57
HD191765	11	8.3	20	08	22	+36 02	L 3	4087	L 0	30JAN79	13 04 38	1 00	HM011	36
HD191765	11	8.3	20	08	22	+36 02	H 3	4088	L 0	30JAN79	13 37 44	45 00	HM011	45
HD191877	23	6.2	20	09	10	+21 44	H 2	2526	S C	02OCT78	16 56 47	16 00	RD016	60
HD191877	23	6.2	20	09	10	+21 44	H 3	2817	S C	02OCT78	17 27 10	38 00	RD016	70

OBJECT	CL	MAG	RT ARCN			DECLN		DISP +CAM	APERT		DATE	START			LENGTH MIN SC	PROG	COMMENT
			HR	MN	SC	DEG	MIN		OR	LG		HR	MN	SC			
NGC 6888	76	12.0	20	10	15	+38 16	L 2	3872	L 0	26FEB79	08	33	37	150 00	UK02A	11	
NGC 6888	76	12.0	20	10	15	+38 16	L 3	4397	L 0	26FEB79	08	31	52	150 00	UK02A	11	
HD192163	11	7.7	20	10	17	+38 12	H 2	1580	S 0	30MAY78	02	45	40	100 00	MH011	GOOD	
HD192163	11	7.7	20	10	17	+38 12	L 2	3806	S 0	20FEB79	06	37	27	4 00	UK02A	77	
HD192163	11	7.7	20	10	17	+38 12	L 2	3806	L 0	20FEB79	06	22	52	3 00	UK02A	56	
HD192163	11	7.7	20	10	17	+38 12	H 3	1668	S 0	30MAY78	01	41	47	40 00	MH011	UNDEREXP	
HD192163	57	7.7	20	10	17	+38 12	H 3	2424	S 0	31AUG78	16	40	06	60 00	DF010	90SATURATED BACKGROUND	
HD192163	11	7.7	20	10	17	+38 12	H 3	2517	S 0	07SEP78	16	32	00	60 00	MH011	50HIGH RADN BACKGROUND	
HD192163	11	7.7	20	10	17	+38 12	L 3	4309	L 0	20FEB79	06	48	14	18	UK02A	36	
HD192163	11	7.7	20	10	17	+38 12	L 3	4309	S 0	20FEB79	06	44	44	28	UK02A	35	
NGC 6888	76	12.0	20	10	25	+38 17	L 3	4396	L 0	26FEB79	06	45	46	60 00	UK02A	11	
HD192909	46	3.9	20	13	55	+47 34	H 3	1427	S 0	27APR78	09	00	00	30 00	MHA02	UNDEREXP.	
HD192273	25	8.9	20	14	00	+69 37	H 2	4134	S 0	28MAR79	11	21	07	28 00	UK026	30	
HD192273	25	8.9	20	14	00	+69 37	H 3	4783	S 0	28MAR79	09	43	46	90 00	UK026	50	
HD193237	23	5.8	20	15	50	+37 52	L 2	1932	S 0	01AUG78	00	58	00	20	VILSP	A BIT STRONG	
HD193237	23	5.8	20	15	50	+37 52	L 2	1932	L 0	01AUG78	00	53	00	20	VILSP	A BIT STRONG	
HD193237	23	5.8	20	15	50	+37 52	L 3	2164	S 0	01AUG78	01	35	00	40	VILSP	GOOD	
HD193237	23	5.8	20	15	50	+37 52	L 3	2164	L 0	01AUG78	01	30	00	40	VILSP	A BIT STRONG	
HD193237	23	5.0	20	15	56	+37 53	H 2	1371	S 0	23APR78	08	35	03	35 00	VILSP	OVEREXP LW	
HD193237	27	4.8	20	15	56	+37 53	H 2	2224	S 0	31AUG78	00	46	45	12 00	UK022	56	
HD193237	23	5.0	20	15	56	+37 53	L 3	1404	S 0	23APR78	06	01	12	1 30	VILSP	OVEREXP LW	
HD193237	23	5.0	20	15	56	+37 53	H 3	1593	S 0	21MAY78	05	10	00	60 00	VILSP	GOOD	
HD193237	27	4.8	20	15	56	+37 53	H 3	2419	S 0	31AUG78	01	05	18	20 00	UK022	34	
HD193237	23	5.0	20	15	57	+37 52	H 2	2997	L 0	21NOV78	16	05	44	9 00	VILSP	77	
HD193237	23	5.0	20	15	57	+37 52	H 2	2998	L 0	21NOV78	17	04	59	2 30	VILSP	45	
HD193237	60	4.8	20	15	57	+37 53	L 2	3370	S 0	03JAN79	08	46	39	12	VILSP	60	
HD193237	60	4.8	20	15	57	+37 53	L 2	3370	L 0	03JAN79	08	43	37	4	VILSP	50	
HD193237	23	5.0	20	15	57	+37 52	L 3	3008	L 0	21NOV78	16	35	57	35	VILSP	66	
HD193322	15	5.8	20	16	21	+40 35	H 2	2130	S 0	20AUG78	23	57	35	12 00	UK031	60	
HD193322	15	5.8	20	16	21	+40 35	H 2	2131	S 0	21AUG78	01	20	42	20 00	UK031	70SAT ABOVE 2800A	
HD193322	15	5.8	20	16	21	+40 35	H 3	2345	S 0	20AUG78	23	10	23	40 00	UK031	60	
HD193322	15	5.8	20	16	21	+40 35	H 3	2346	S 0	21AUG78	00	10	02	25 00	UK031	70SAT ABOVE 1700A	
V444 CYG	11	8.3	20	17	42	+38 34	L 2	2346	L 0	13SEP78	21	08	51	3 20	UK028	70	
V444 CYG	11	8.3	20	17	42	+38 34	L 2	2346	S 0	13SEP78	21	00	00	50	UK028	40	
V444 CYG	11	8.3	20	17	42	+38 34	L 3	2644	L 0	13SEP78	20	19	21	1 40	UK028	33	
V444 CYG	11	8.3	20	17	42	+38 34	L 3	2644	S 0	13SEP78	20	14	52	25	UK028	33	
V444 CYG	11	8.3	20	17	42	+38 34	L 3	2645	S 0	13SEP78	21	48	48	6 40	UK028	45	
V444 CYG	11	8.4	20	17	43	+38 34	H 2	1529	S 0	21MAY78	06	38	00	35 00	VILSP	UXP X5	
V444 CYG	11	8.4	20	17	43	+38 34	H 3	1594	S 0	21MAY78	07	28	00	30 00	VILSP	NO SPECTRUM	
IC 4997	70	11.2	20	17	51	+16 34	L 2	2247	L 0	02SEP78	17	08	00	10 00	DF010	24HIGH BACKGROUND	
IC 4997	70	11.2	20	17	51	+16 34	L 2	2250	L 0	02SEP78	22	26	45	15 00	DF010	34	
IC 4997	70	11.2	20	17	51	+16 34	L 3	2451	L 0	02SEP78	16	45	00	10 00	DF010	27VERY HIGH BACKGROUND	
IC 4997	70	11.2	20	17	51	+16 34	L 3	2455	L 0	02SEP78	21	47	40	5 00	DF010	15	
IC 4997	70	11.2	20	17	51	+16 34	L 3	2456	S 0	02SEP78	22	59	20	45 00	DF010	05	
HD193495	41	3.1	20	18	12	-14 56	H 2	2189	S 0	27AUG78	18	50	00	15 00	BN053	60	
HD195455	23	9.2	20	29	17	-24 14	H 2	4088	L 0	22MAR79	06	30	34	58 00	UK028	50	
HD195455	23	9.2	20	29	17	-24 14	H 3	4723	L 0	22MAR79	04	54	33	90 00	UK028	60	
HD195455	23	9.2	20	29	17	-24 14	L 3	4724	S 0	22MAR79	07	39	46	2 14	UK028	60	
HD195455	23	9.2	20	29	17	-24 14	L 3	4724	S 0	22MAR79	07	39	46	2 14	UK028	60	
HD195455	23	9.2	20	29	17	-24 14	L 3	4724	S 0	22MAR79	07	39	46	2 14	UK028	60	
HD195455	23	9.2	20	29	17	-24 14	L 3	4724	S 0	22MAR79	07	39	46	2 14	UK028	60	
HD197345	32	1.3	20	39	43	+45 06	H 2	2927	S 0	13NOV78	13	55	25	2 00	FP047	70SM OK	
HD197345	32	1.3	20	39	43	+45 06	H 3	3330	S 0	13NOV78	12	50	58	1 30	FP047	50	
HD197345	32	1.3	20	39	43	+45 06	H 3	3331	S 0	13NOV78	13	22	50	9 00	FP047	70SM OK	
HD197345	32	1.2	20	39	44	+45 06	H 2	2583	S 0	12OCT78	15	19	06	1 20	FM050	70	
HD197345	32	1.2	20	39	44	+45 06	H 3	2940	S 0	12OCT78	14	28	02	7 00	FM050	70	
HD197345	32	1.2	20	39	44	+45 06	H 3	2941	S 0	12OCT78	15	27	29	1 00	FM050	50	
MKN 509	84	13.0	20	41	26	-10 54	L 2	1309	L 0	12APR78	08	13	00	110 00	UKPOP	GOOD, A BIT SAT	
MKN 509	84	13.0	20	41	26	-10 54	L 2	1636	L 0	08JUN78	01	10	02	50 00	UK042	VERY GOOD MAX DN 199	
MKN 509	84	13.1	20	41	26	-10 54	L 2	1783	L 0	05JUL78	20	00	00	37 00	Q024B	OKJUS IMAGE/APPROX START	
MKN 509	84	13.0	20	41	26	-10 54	L 3	1355	L 0	12APR78	05	11	45	165 00	UKPOP	OVEREXP.	
MKN 509	84	13.0	20	41	26	-10 54	L 3	1742	L 0	07JUN78	23	46	00	60 00	UK042	VERY GOOD MAX DN 225	
MKN 509	84	13.0	20	41	26	-10 54	L 3	1743	S 0	08JUN78	02	24	02	35 00	UK042	WEAK 45PC LOST IN AP	
HD197989	46	2.6	20	44	12	+33 47	H 2	2612	S 0	15OCT78	20	25	17	12 00	UK020	33	
HD197989	46	2.6	20	44	12	+33 47	H 2	2635	S 0	17OCT78	21	00	51	44 00	UK020	65	
HD198149	46	3.4	20	44	16	+61 39	H 2	2634	S 0	17OCT78	19	37	15	30 00	UK020	54	
HD199081	21	8.7	20	51	29	+44 13	H 2	2129	S 0	20AUG78	21	53	26	4 00	UK031	70SAT 2400 TO 2800A	
HD199081	21	8.7	20	51	29	+44 13	H 3	2344	S 0	20AUG78	22	07	33	5 00	UK031	70SAT ABOVE 1800A	
CYG L00P	75	14.0	20	54	15	+31 33	L 2	1284	L 0	07APR78	09	35	00	57 00	BD033	UNDEREXPOSED CII	
CYG L00P	75	14.0	20	54	15	+31 33	L 3	1327	L 0	07APR78	05	53	00	180 00	BD033		
CYG L00P	72	18.0	20	54	46	+30 56	L 3	1877	L 0	29JUN78	00	29	48	315 00	BD033	GOOD	
HD200120	20	4.8	20	58	07	+47 19	H 2	3217	S 0	20DEC78	15	07	20	2 00	NH051	22TRIPLE SYSTEM	
HD200120	20	4.8	20	58	07	+47 19	H 2	3216	S 0	20DEC78	16	58	00	4 00	NH051	66	
HD200120	26	4.8	20	58	07	+47 19	H 2	3228	L 0	21DEC78	17	23	49	1 10	NH051	55	
HD200120	26	4.8	20	58	07	+47 19	L 2	3248	L 0	23DEC78	12	58	01	1	NH051	55	
HD200120	26	4.8	20	58	07	+47 19	L 2	3248	S 0	23DEC78	12	50	17	1	NH051	33	
HD200120	20	4.8	20	58	07	+47 19	H 3	3653	S 0	20DEC78	15	42	17	3 00	NH051	2259 CYG	
HD200120	20	4.8	20	58	07	+47 19	H 3	3654	S 0	20DEC78	16	19	35	10 30	NH051	88	
HD200120	20	4.8	20	58	07	+47 19	H 3	3655	S 0	20DEC78	17	48	47	5 00	NH051	22	
HD200120	26	4.8	20	58	07	+47 19	H 3	3664	L 0	21DEC78	16	50	48	1 40	NH051	56	
HD200120	26	4.8	20	58	07	+47 19	L 3	3665	S 0	21DEC78	17	36	41	2	NH051	44	
HD200120	26	4.8	20	58	07	+47 19	L 3	3665	L 0	21DEC78	17	30	33	3	NH051	68	
HD200120	26	4.8	20	58	07	+47 19	L 3	3681	L 0	23DEC78	13	03	01	1	NH051	33	
HD200120	26	4.8	20	58	07	+47 19	L 3	3681	S 0	23DEC78	12	54	02	1	NH051	55	
HD200775	20	7.0	21	00	59	+											

OBJECT	CL	MAG	RT ASCN			DECLN		DISP FCAM	APERT		START			LENGTH MIN SC	PROG	COMMENT	
			HR	MM	SC	DEG	MM		INAGE	OR LG	DATE	HR	MM				SC
NGC 7009	70	8.0	21	01	28	-11	34	L 3	1709	L 0	03JUN78	23	54	00	UK008	VERY GOOD	
NGC 7009	70	9.0	21	01	28	-11	34	L 3	312A	L 0	24OCT78	15	30	41	8 00	MP028	57
NGC 7009	70	9.0	21	01	28	-11	34	L 3	3129	L 0	24OCT78	16	46	00	13 00	MP028	35
HD201091	46	5.2	21	04	40	+38	30	H 2	3175	L 0	15OCT78	14	08	27	30 00	CR031	26
HD201091	46	5.2	21	04	40	+38	30	L 3	3622	L 0	17DEC78	11	08	49	120 00	CR031	0361 CYG A
NGC 7027	71	9.0	21	05	09	+42	02	L 3	3077	L 0	24OCT78	20	03	00	20 00	MP028	05
NGC 7027	70	9.0	21	05	12	+42	01	H 2	2571	L 0	10OCT78	15	16	49	300 00	VILSP	26
NGC 7027	71	9.5	21	05	12	+42	01	H 3	4716	L 0	21MAR79	06	59	58	287 00	VILSP	06
NGC 7027	71	9.5	21	05	12	+42	01	H 3	4708	L 0	25MAR79	05	34	02	35 00	VILSP	03
V1500CYG	55	14.6	21	09	55	+47	57	L 3	3911	L 0	13JAN79	16	27	00	20 00	UKFTL	01
HD202850	25	4.2	21	15	27	+39	11	H 2	2584	S C	12OCT78	16	18	37	10 00	FM050	70
HD202850	25	4.2	21	15	27	+39	11	H 2	3728	L 0	10FEB79	07	33	09	4 00	UK021	60
HD202850	25	4.2	21	15	27	+39	11	H 3	2942	S C	12OCT78	16	48	04	33 00	FM050	70
HD202850	25	4.2	21	15	27	+39	11	H 3	4215	L 0	10FEB79	08	01	00	23 00	UK021	700K SHORT OF 1600
HD204076	20	8.0	21	24	01	-32	09	H 3	4725	L 0	22MAR79	08	31	42	68 00	UK028	50
Z126-158	85	17.3	21	26	27	-15	54	L 2	2566	L 0	09OCT78	16	21	22	840 00	UK13A	77READ AT G8FC
Z126-158	85	17.3	21	26	27	-15	54	L 3	2882	L 0	07OCT78	16	42	36	840 00	UK13A	77READ AT G8FC
NGC 7078	81	6.4	21	27	36	+47	57	L 3	1641	S 0	26MAY78	7	12	09	32 00	UKPOP	770K FOR 8WJ WK IN 2200
I12W 136	84	14.0	21	30	01	+09	55	L 3	3637	L 0	18DEC78	11	03	29	120 00	UK033	35
P2135-14	85	15.0	21	35	01	+14	46	L 3	2178	L 0	27JUL78	03	20	00	17 00	UK016	NO SPECTRUM
HD206165	21	4.7	21	36	34	+61	52	H 2	2169	S C	24AUG78	22	08	00	20 00	UK031	70STRONG GRADIENT IN EXP
HD206165	23	4.7	21	36	34	+61	52	H 3	2392	S C	24AUG78	21	11	00	50 00	UK031	60
NOVA CYG	55	7.0	21	40	38	+43	48	L 2	2323	L 0	11SEP78	16	42	00	5 00	UK100	77
NOVA CYG	55	7.0	21	40	38	+43	48	L 2	2323	S 0	11SEP78	16	35	00	1 00	UK100	34
NOVA CYG	55	7.0	21	40	38	+43	48	L 2	2335	L 0	12SEP78	18	37	00	3 00	UK100	66GOOD
NOVA CYG	55	7.0	21	40	38	+43	48	L 2	2335	S 0	12SEP78	17	58	40	15 00	UK100	770K FOR 8WJ WK IN 2200
NOVA CYG	55	7.0	21	40	38	+43	48	L 2	2357	S 0	14SEP78	23	47	11	4 00	VILSP	56
NOVA CYG	55	7.0	21	40	38	+43	48	L 2	2357	L 0	14SEP78	23	24	00	18 00	VILSP	78
NOVA CYG	55	7.0	21	40	38	+43	48	L 2	2365	S 0	15SEP78	18	20	00	3 00	UK100	56
NOVA CYG	55	7.0	21	40	38	+43	48	L 2	2365	L 0	15SEP78	17	47	27	18 00	UK100	77
NOVA CYG	55	8.0	21	40	38	+43	48	L 2	2407	L 0	19SEP78	17	45	21	10 01	UK100	77000 FOR 2200 REGION
NOVA CYG	55	8.0	21	40	38	+43	48	L 2	2407	S 0	19SEP78	17	37	44	2 00	UK100	56
NOVA CYG	55	8.5	21	40	38	+43	48	L 2	2448	S 0	23SEP78	23	11	58	2 00	UK100	56
NOVA CYG	55	8.5	21	40	38	+43	48	L 2	2448	L 0	23SEP78	22	56	00	8 00	UK100	77000 FOR 2200
NOVA CYG	55	8.2	21	40	38	+43	48	H 2	2491	L 0	28SEP78	16	48	54	40 00	VILSP	47SAT AT HG II
NOVA CYG	55	8.2	21	40	38	+43	48	H 2	2492	L 0	28SEP78	18	10	42	12 00	VILSP	35
NOVA CYG	55	9.5	21	40	38	+43	48	L 2	2633	S 0	17OCT78	18	32	18	1 00	UK100	35
NOVA CYG	55	9.5	21	40	38	+43	48	L 2	2633	L 0	17OCT78	18	24	32	4 00	UK100	58
NOVA CYG	55	10.0	21	40	38	+43	48	H 2	2709	S C	25OCT78	15	31	00	15 00	UK100	12
NOVA CYG	55	10.0	21	40	38	+43	48	H 2	2710	S C	25OCT78	16	37	00	100 00	UK100	24
NOVA CYG	55	10.5	21	40	38	+43	48	L 2	2751	L 0	29OCT78	21	07	54	6 00	UK100	67
NOVA CYG	55	10.5	21	40	38	+43	48	L 2	2751	S 0	29OCT78	21	02	20	1 30	UK100	35
NOVA CYG	55	11.0	21	40	38	+43	48	L 2	2881	S 0	06NOV78	14	24	00	2 00	UK100	35
NOVA CYG	55	11.0	21	40	38	+43	48	L 2	2881	L 0	06NOV78	14	09	22	6 00	UK100	57
NOVA CYG	55	11.0	21	40	38	+43	48	L 2	2946	L 0	16NOV78	14	00	28	2 00	UK100	45
NOVA CYG	55	11.0	21	40	38	+43	48	L 2	2946	S C	16NOV78	13	50	05	4 00	UK100	56
NOVA CYG	55	11.0	21	40	38	+43	48	H 2	2947	L 0	16NOV78	14	55	58	90 00	UK100	34
NOVA CYG	55	11.0	21	40	38	+43	48	H 2	2948	L 0	16NOV78	19	19	32	25 00	UK100	47
NOVA CYG	55	12.0	21	40	38	+43	48	L 2	3100	L 0	04DEC78	16	19	41	12 00	UK100	37
NOVA CYG	55	12.0	21	40	38	+43	48	L 2	3100	S 0	04DEC78	16	09	14	5 00	UK100	25
NOVA CYG	55	12.0	21	40	38	+43	48	L 2	3245	S 0	26DEC78	16	16	17	5 00	UK100	24
NOVA CYG	55	12.0	21	40	38	+43	48	L 2	3245	L 0	26DEC78	15	55	50	15 00	UK100	37
NOVA CYG	55	12.0	21	40	38	+43	48	L 2	3478	L 0	13JAN79	12	17	36	45 00	UK100	27
NOVA CYG	55	12.0	21	40	38	+43	48	L 2	3478	S 0	13JAN79	11	58	02	6 00	UK100	13
NOVA CYG	55	13.0	21	40	38	+43	48	L 2	3942	L 0	06MAR79	06	36	09	8 00	UK100	23
NOVA CYG	55	13.0	21	40	38	+43	48	L 2	3942	S 0	06MAR79	05	59	34	30 00	UK100	23
NOVA CYG	55	13.0	21	40	38	+43	48	L 2	4100	L 0	24MAR79	06	06	50	32 00	UK100	23
NOVA CYG	55	13.0	21	40	38	+43	48	L 2	4101	L 0	24MAR79	07	19	48	96 00	UK100	35
NOVA CYG	55	7.0	21	40	38	+43	48	L 3	2627	L 0	11SEP78	17	29	00	3 00	UK100	33
NOVA CYG	55	7.0	21	40	38	+43	48	L 3	2627	S 0	11SEP78	17	20	00	1 00	UK100	22
NOVA CYG	55	7.0	21	40	38	+43	48	L 3	2636	S 0	12SEP78	17	46	00	5 00	UK100	22
NOVA CYG	55	7.0	21	40	38	+43	48	L 3	2636	L 0	12SEP78	17	12	48	25 00	UK100	34
NOVA CYG	55	7.0	21	40	38	+43	48	L 3	2655	L 0	15SEP78	17	04	58	35 00	UK100	56
NOVA CYG	55	8.0	21	40	38	+43	48	L 3	2697	L 0	19SEP78	18	38	29	2 00	UK100	23
NOVA CYG	55	8.0	21	40	38	+43	48	L 3	2697	S 0	19SEP78	18	03	10	30 00	UK100	57
NOVA CYG	55	8.5	21	40	38	+43	48	L 3	2742	L 0	23SEP78	23	43	00	3 00	UK100	45
NOVA CYG	55	8.5	21	40	38	+43	48	L 3	2742	S 0	23SEP78	23	20	00	20 00	UK100	77
NOVA CYG	55	9.0	21	40	38	+43	48	L 3	2902	L 0	10OCT78	21	32	46	3 00	VILSP	67
NOVA CYG	55	9.0	21	40	38	+43	48	L 3	2902	S 0	10OCT78	20	47	18	20 00	VILSP	77
NOVA CYG	55	9.2	21	40	38	+43	48	L 3	2990	L 0	15OCT78	21	41	12	1 00	UK100	35
NOVA CYG	55	9.2	21	40	38	+43	48	L 3	2990	S C	15OCT78	21	25	57	10 00	UK100	56
NOVA CYG	55	9.5	21	40	38	+43	48	L 3	3011	S 0	17OCT78	18	47	08	3 00	UK100	28
NOVA CYG	55	9.5	21	40	38	+43	48	L 3	3011	L 0	17OCT78	18	37	33	5 00	UK100	36
NOVA CYG	55	10.5	21	40	38	+43	48	L 3	3190	L 0	29OCT78	20	27	50	6 00	UK100	46
NOVA CYG	55	10.5	21	40	38	+43	48	L 3	3190	S 0	29OCT78	20	21	16	3 00	UK100	38
NOVA CYG	55	11.0	21	40	38	+43	48	H 3	3237	L 0	06NOV78	14	46	00	240 00	UK100	27
NOVA CYG	55	11.0	21	40	38	+43	48	L 3	3238	S 0	06NOV78	19	39	39	3 00	UK100	15
NOVA CYG	55	11.0	21	40	38	+43	48	L 3	3238	L 0	06NOV78	19	26	39	9 00	UK100	27
NOVA CYG	55	11.0	21	40	38	+43	48	L 3	3362	L 0	16NOV78	14	24	30	9 00	UK100	36
NOVA CYG	55	11.0	21	40	38	+43	48	L 3	3362	S C	16NOV78	14	14	44	4 00	UK100	46
NOVA CYG	55	12.0	21	40	38	+43	48	L 3	3526	L 0	04DEC78	15	51	37	9 00	UK100	27
NOVA CYG	55	12.0	21	40	38	+43	48	L 3	3526	S 0	04DEC78	15	42	52	3 00	UK100	15
NOVA CYG	55	12.0	21	40	38	+43	48	L 3	3714	L 0	26DEC78	16	30	56			

OBJECT	CL	MAG	RT	ASCN	DFCLN	DISP	APERT	START	LENGTH	PROG	COMMENT				
			HR	MN	SC	DEG	MIN	HR	MN	SC	MIN	SC			
85 CYG	34	12.0	21	40	44	+43 21	L 3	1664	8	C	29MAY78	06 26 54	70 00	UKPDP	QUITE WEAK, NOISY IMAGE
85 CYGNI	54	12.0	21	40	44	+43 21	L 3	3890	L	O	11JAN79	09 59 46	16 00	UK035	35
85 CYGNI	54	12.0	21	40	44	+43 21	L 3	3881	L	O	11JAN79	11 01 00	16 00	UK035	35
85 CYGNI	54	12.0	21	40	44	+43 21	L 3	3882	L	O	11JAN79	11 58 23	16 00	UK035	35
85 CYGNI	54	12.0	21	40	44	+43 21	L 3	3883	L	O	11JAN79	13 00 53	16 00	UK035	35
85 CYGNI	54	12.0	21	40	44	+43 21	L 3	3894	L	O	11JAN79	14 11 08	40 00	UK035	56
85 CYGNI	54	12.0	21	40	44	+43 21	L 3	3895	L	O	11JAN79	15 28 23	16 00	UK035	45
HD20A860	44	5.9	21	42	09	+14 33	H 2	2967	L	O	18NOV78	17 36 00	48 00	CB031	44
HD20A860	44	5.4	21	42	09	+14 33	H 2	3013	L	O	23NOV78	16 27 37	52 00	CB031	50
HD20A860	44	5.9	21	42	09	+14 33	H 2	3174	L	O	15DEC78	10 38 00	52 00	CB031	60
HD20A860	44	5.9	21	42	09	+14 33	H 2	3215	L	O	20DEC78	10 22 51	48 00	CB031	66
HD20A860	44	6.0	21	42	09	+14 33	H 2	3320	L	O	29DEC78	14 18 41	46 00	FC027	60
HD20A860	44	5.9	21	42	09	+14 33	L 3	3381	L	O	18NOV78	16 27 42	77 00	CB031	40
HD20A860	44	5.9	21	42	09	+14 33	L 3	3608	L	O	15DEC78	11 40 40	100 00	CB031	70
+28 4211	12	10.5	21	48	56	+28 38	L 2	3286	8	O	26DEC78	17 15 09	1 00	UKCAL	50
+28 4211	12	10.5	21	48	56	+28 38	L 2	3286	L	O	26DEC78	17 11 13	1 00	UKCAL	50
+28 4211	12	10.5	21	48	56	+28 38	L 2	3477	L	O	13JAN79	09 48 51	1 00	UKCAL	50
+28 4211	12	10.5	21	48	56	+28 38	L 2	3477	8	O	13JAN79	09 39 36	1 00	UKCAL	50
+28 4211	12	10.5	21	48	56	+28 38	L 3	3907	L	O	13JAN79	09 34 10	30	UKCAL	50
+28 4211	12	10.5	21	48	56	+28 38	L 3	3907	8	O	13JAN79	09 28 13	50	UKCAL	30FOCUS POOR
HD20A501	25	5.8	21	53	12	+56 22	H 2	3746	L	O	12FEB79	12 41 22	55 00	UK021	50
HD20A501	25	5.8	21	53	12	+56 22	H 3	4217	L	O	10FEB79	10 29 40	200 00	UK021	40
HD20A816	48	4.9	21	55	12	+63 23	L 2	1750	8	C	30JUN78	02 18 51	2 30	UK045	0K
HD20A816	48	4.9	21	55	12	+63 23	L 2	1750	L	O	30JUN78	02 07 58	5 00	UK045	0K
HD20A816	48	4.9	21	55	12	+63 23	L 3	1885	8	C	30JUN78	01 28 59	8 00	UK045	A BIT WEAK
HD20A816	48	4.9	21	55	12	+63 23	L 3	1883	L	O	30JUN78	00 55 11	15 00	UK045	BAT AT LK
HD20A816	48	4.9	21	55	14	+63 23	L 2	1285	8	C	08APR78	07 24 00	20 00	UKPDP	VV CEP
HD20A816	48	4.9	21	55	14	+63 23	L 2	1631	L	O	07JUN78	07 35 00	6 00	MHB02	VV CEP GOOD
HD20A816	48	4.9	21	55	14	+63 23	L 2	1631	8	C	07JUN78	01 25 00	4 00	MHB02	VV CEP GOOD
HD20A816	48	4.9	21	55	14	+63 23	L 2	1732	L	O	26JUN78	01 51 27	4 00	MHC02	OVEREXP X 30PC
HD20A816	48	5.7	21	55	14	+63 23	H 2	1931	8	C	31JUL78	21 09 00	113 00	MHA02	A BIT WEAK AT SHORT WL
HD20A816	48	4.8	21	55	14	+63 23	H 2	2109	8	C	18AUG78	18 56 38	120 00	UK045	46MAG IJ BAT
HD20A816	39	5.7	21	55	14	+63 23	H 2	4007	L	O	13MAR79	10 39 00	30 00	MHA02	45ND SPREP (XPREP ONLY)
HD20A816	53	5.7	21	55	14	+63 23	L 3	1385	8	C	19APR78	07 30 00	6 00	MHA02	NO SPECTRUM
HD20A816	53	5.7	21	55	14	+63 23	L 3	1385	L	O	19APR78	07 45 00	1 00	MHA02	NO SPECTRUM
HD20A816	48	4.9	21	55	14	+63 23	L 3	1736	L	O	07JUN78	00 26 37	12 00	MHB02	VV CEP GOOD SOME EM BAT
HD20A816	48	4.9	21	55	14	+63 23	L 3	1736	8	C	07JUN78	00 15 08	1 00	MHB02	VV CEP
HD20A816	48	5.7	21	55	14	+63 23	L 3	2162	L	O	31JUL78	20 58 00	2 00	MHA02	GOOD AT LONG WL
HD20A816	48	5.7	21	55	14	+63 23	L 3	2162	8	C	31JUL78	20 54 00	1 00	MHA02	A BIT WEAK
HD20A816	39	5.7	21	55	14	+63 23	L 3	4617	8	C	13MAR79	11 38 35	30	MHA02	11
HD20A816	39	5.7	21	55	14	+63 23	L 3	4617	L	O	13MAR79	11 15 09	1 30	MHA02	23
HD20A816	48	4.9	21	55	15	+63 23	H 2	2923	L	O	12NOV78	13 14 50	30 00	UK045	47
HD20A816	48	4.9	21	55	15	+63 23	H 2	2924	L	O	12NOV78	18 43 17	60 00	UK045	57
HD20A816	48	4.9	21	55	15	+63 23	L 3	3321	8	O	12NOV78	13 01 00	7 00	UK045	50
HD20A816	48	4.9	21	55	15	+63 23	L 3	3321	L	O	12NOV78	12 35 35	10 00	UK045	70
HD20A816	48	4.9	21	55	15	+63 23	H 3	3322	L	O	12NOV78	13 56 08	270 00	UK045	67
-03 5357	16	10.0	21	58	01	-02 59	L 2	1855	L	O	20JUL78	01 07 00	10 01	UK003	OK
-03 5357	16	10.0	21	58	01	-02 59	L 2	1855	8	O	20JUL78	00 43 00	14 35	UK003	OK
OBJECT	CL	MAG	RT	ASCN	DFCLN	DISP	APERT	START	LENGTH	PROG	COMMENT				
			HR	MN	SC	DEG	MIN <td>HR</td> <td>MN</td> <td>SC</td> <td>MIN</td> <td>SC</td> <td></td> <td></td> <td></td>	HR	MN	SC	MIN	SC			
-03 5357	16	10.0	21	58	01	-02 59	L 3	2054	L	O	20JUL78	00 23 00	13 20	UK003	DXP
-03 5357	16	10.0	21	58	01	-02 59	L 3	2054	8	O	19JUL78	22 54 00	16 50	UK003	BLIGHT DXP
-03 5357	16	10.0	21	58	01	-02 59	L 3	2055	L	O	20JUL78	02 09 00	6 00	UK003	OK
2158-380	86	14.0	21	58	17	-38 01	L 3	3644	L	O	19DEC78	11 43 25	120 00	UK033	13
HD209100	46	4.7	21	59	47	+57 01	H 2	2811	8	C	15OCT78	17 45 00	85 00	UK020	75
HD209481	12	5.5	22	00	24	+57 46	H 2	3729	L	O	10FEB79	09 25 05	4 00	UK021	70
HD209481	12	5.5	22	00	24	+57 46	H 3	4216	L	O	10FEB79	09 34 00	9 00	UK021	50
HD209481	12	5.5	22	00	34	+57 46	H 3	4236	L	O	12FEB79	12 16 43	7 00	UK021	50
HD209750	44	2.9	22	03	13	-00 34	H 2	3216	8	C	20DEC78	12 11 03	30 00	CB031	66
HD209750	44	2.9	22	03	13	-00 34	L 3	3651	L	O	20DEC78	11 40 01	22 00	CB031	44ALPHA AQR
HD209750	44	2.9	22	03	14	-00 34	L 3	3609	L	O	15DEC78	17 41 30	5 00	CB031	10
HD209750	44	2.9	22	03	14	-00 34	L 3	3609	8	C	15DEC78	17 32 46	5 00	CB031	20
Q2204-408	85	17.5	22	04	33	-40 51	L 2	2539	L	O	05OCT78	17 00 00	840 00	UK134	??TREAD DOWN AT G8FC
Q2204	85	17.5	22	04	33	-40 52	L 3	2227	L	O	06AUG78	21 12 00	327 00	UK134	11Q2204-408
Q2204	85	17.5	22	04	33	-40 52	L 3	2251	L	O	09AUG78	19 50 51	350 00	UK134	11Q2204-408
2204-408	85	17.5	22	04	33	-40 51	L 3	2849	L	O	03OCT78	16 52 53	840 00	UK134	??TREAD DOWN AT G8FC
HD210839	15	5.0	22	09	49	+59 18	H 2	2128	8	C	20AUG78	18 58 27	10 00	UK031	700K BELOW 2550A
HD210839	15	5.0	22	09	49	+59 10	H 2	3566	L	O	24JAN79	09 10 12	10 00	MH014	70
HD210839	15	5.0	22	09	49	+59 10	H 2	3567	L	O	24JAN79	09 50 11	2 30	MH014	40
HD210839	15	5.0	22	09	49	+59 18	H 3	2343	8	C	20AUG78	19 40 39	40 00	UK031	775AT ABOVE 1700A
HD210839	15	5.0	22	09	49	+59 10	H 3	4015	L	O	24JAN79	08 28 30	13 00	MH014	70
HD212076	26	5.0	22	19	03	+11 57	H 2	3806	8	C	06JAN79	15 11 00	2 27	AR020	50
HD212076	26	5.0	22	19	03	+11 57	H 3	3827	8	C	06JAN79	14 31 00	2 57	AR020	30
HD212076	26	5.0	22	19	03	+11 57	H 3	3828	8	C	06JAN79	15 28 35	2 57	AR020	50
HD212593	25	4.6	22	22	29	+49 13	H 2	3775	L	O	15FEB79	11 42 37	6 00	FM050	60
HD212593	25	4.6	22	22	29	+49 13	H 3	4266	L	O	15FEB79	11 14 44	17 00	FM050	50100DN AT 1550A
HD212571	20	4.6	22	22	43	+01 07	H 2	3383	8	C	04JAN79	13 41 55	1 36	AR020	50
HD212571	20	4.6													

OBJFCT	CL	MAG	RT ASCN			DECLN		DISP		APERT		DATE	START			LENGTH	PHOG	COMMENT		
			HR	MN	SC	DEG	MN	+CAM	IMAGE	DR	LG		HR	MN	SC				MIN	SC
HD217675	25	3.6	22	59	37	+42	03	H	2	3466	S	C	12JAN79	10	02	30	2	10	PSD13	70
HD217675	22	4.7	22	59	37	+42	03	H	3	2393	S	C	25AUG78	01	11	00	2	30	UK031	60
HD217675	25	3.6	22	59	37	+42	03	H	3	3896	S	C	12JAN79	10	07	30	2	20	PSD13	60
NGC 7469	84	13.8	23	00	44	+08	36	L	2	1680	S	O	16JUN78	23	44	45	120	00	SL034	MG II GOOD
NGC 7469	84	13.8	23	00	44	+08	36	L	3	1798	S	O	17JUN78	02	00	36	210	00	SL034	GOOD MAX DN 174
NGC 7469	84	14.0	23	00	59	+08	32	L	3	1920	L	O	06JUL78	00	37	37	57	00	UK005	NO SPECTRUM
HD218915	13	7.2	23	08	52	+52	47	H	3	1884	S	C	30JUN78	03	02	00	55	00	UK06A	OVEREXPOSED X 1.5
HD219188	23	6.9	23	11	28	+04	43	H	2	1749	S	C	29JUN78	23	24	21	16	00	UK06A	GOOD
HD219188	23	6.9	23	11	28	+04	43	H	3	1882	S	C	29JUN78	22	55	56	20	00	UK06A	GOOD MAX DN 240
HD219188	23	6.9	23	11	28	+04	43	H	3	3050	S	C	19OCT78	20	56	54	25	00	UK041	50
NGC 7582	88	14.0	23	15	38	-42	39	L	2	3051	L	O	27NOV78	17	16	02	150	00	VILSP	27
NGC 7582	88	12.0	23	15	38	-42	39	L	2	3171	L	O	03JAN79	10	13	01	372	00	VILSP	30BACKGROUND 800N
NGC 7582	88	14.0	23	15	38	-42	39	L	3	3471	L	O	27NOV78	13	08	54	240	00	VILSP	22
-5 23174	20	12.5	23	17	24	-05	26	L	3	3737	L	O	29DEC78	15	55	16	10	00	FC027	90
NGC 7662	70	9.0	23	23	30	+42	16	L	2	1572	S	O	28MAY78	07	21	00	20	00	UKPOP	UNDEREXP
NGC 7662	70	9.0	23	23	30	+42	16	L	2	1576	L	O	29MAY78	01	59	02	28	00	UKPOP	GOOD
NGC 7662	71	8.6	23	23	30	+42	16	H	2	1612	S	C	04JUN78	01	21	00	30	00	UK008	A FEW LINES 6SEC OFFSET
NGC 7662	71	8.6	23	23	30	+42	16	L	2	1613	S	O	04JUN78	03	23	33	12	00	UK008	WEAK
NGC 7662	71	8.6	23	23	30	+42	16	L	2	1623	S	C	06JUN78	00	43	00	12	00	UK008	WEAK E 6SEC FROM STAR
NGC 7662	71	8.6	23	23	30	+42	16	L	2	1624	S	C	06JUN78	02	12	00	12	00	UK008	WEAK W 4SEC FROM STAR
NGC 7662	71	8.6	23	23	30	+42	16	H	2	1625	S	C	06JUN78	03	11	00	75	00	UK008	GOOD W 4SEC FROM STAR
NGC 7662	70	10.0	23	23	30	+42	17	L	2	2657	L	O	20OCT78	20	55	24	29	00	MP028	57NE IV BAT
NGC 7662	70	11.8	23	23	30	+42	16	L	2	3392	L	O	05JAN79	13	18	00	15	00	UK007	56
NGC 7662	70	11.8	23	23	30	+42	16	L	2	3392	S	C	05JAN79	12	28	16	40	00	UK007	34NOT ON STAR
NGC 7662	70	11.8	23	23	30	+42	16	L	2	3393	L	O	05JAN79	14	13	30	7	00	UK007	35
NGC 7662	70	9.0	23	23	30	+42	16	L	3	1681	L	O	29MAY78	00	45	38	60	00	UKPOP	OVEREXP, NOISY IMAGE
NGC 7662	70	9.0	23	23	30	+42	16	L	3	1682	S	C	29MAY78	03	17	00	20	00	UKPOP	GOOD
NGC 7662	71	8.6	23	23	30	+42	16	L	3	1710	S	O	04JUN78	02	12	57	40	00	UK008	A FEW EM LINES
NGC 7662	71	8.6	23	23	30	+42	16	L	3	1729	S	C	06JUN78	04	45	18	60	00	UK008	OK W 5SEC FROM STAR
NGC 7662	70	10.0	23	23	30	+42	17	L	3	3078	L	O	20OCT78	21	30	18	17	00	MP028	58
NGC 7662	70	10.0	23	23	30	+42	17	L	3	3130	L	O	24OCT78	18	13	25	25	00	MP028	28
NGC 7662	70	10.0	23	23	30	+42	17	L	3	3131	L	O	24OCT78	19	23	00	6	00	MP028	16
NGC 7662	70	11.8	23	23	30	+42	16	L	3	3811	S	C	05JAN79	11	41	11	40	00	UK007	56
NGC 7662	70	11.8	23	23	30	+42	16	L	3	3811	L	O	05JAN79	11	27	14	8	00	UK007	37
NGC 7662	70	11.8	23	23	30	+42	16	L	3	3812	L	O	05JAN79	14	03	54	5	00	UK007	36
Z AND	57	10.0	23	31	15	+48	33	L	2	1661	L	O	13JUN78	03	59	37	105	00	VB032	OVEREXP RED OF 2400A
Z AND	57	10.0	23	31	15	+48	33	H	2	3789	L	O	17FEB79	10	39	48	30	00	VB032	01
Z AND	57	10.0	23	31	15	+48	33	L	2	3790	L	O	17FEB79	13	19	58	27	00	VB032	56
Z AND	57	10.8	23	31	15	+48	32	L	3	3485	L	O	05MAY78	02	22	00	60	00	VB032	GOOD
Z AND	57	10.0	23	31	15	+48	33	H	3	4286	L	O	17FEB79	11	16	54	110	00	VB032	06
HD222404	46	3.2	23	37	16	+77	21	L	3	4030	L	O	25JAN79	08	28	28	120	00	UK001	38
HD223640	36	5.2	23	48	46	-19	11	H	2	2460	S	C	08NOV78	16	25	54	16	00	GM045	70
HD223640	36	5.2	23	48	46	-19	11	H	3	3268	S	C	08NOV78	16	10	33	10	00	GM045	50
HD223640	36	5.2	23	48	46	-19	11	H	3	3269	S	C	08NOV78	17	12	39	20	00	GM045	70
HD224014	41	4.4	23	51	33	+57	14	L	3	3713	L	O	26DEC78	14	14	58	45	00	UKFIL	11
HD224014	41	4.4	23	51	33	+57	14	L	2	3476	L	O	13JAN79	08	20	57	20	00	UKFIL	60
HD224014	41	4.4	23	51	33	+57	14	L	3	4506	L	O	06MAR79	10	13	59	81	00	UKFIL	11

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