INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:             INT
DATE:                  1999 Feb 12/13
INT TAPE NR:           INTD3953-57
OBSERVER:              Gavin Dalton/Jane Booth
PROGRAMME:             Oxford UBVRIZ deep survey
PATT/CAT:              WFS 16
TELESCOPE OPERATOR:    -------
SUPPORT ASTRONOMER:    -------

FOCUS:                 PRIME
INSTRUMENT:            WFC
FILTER WHEEL (PF):     KP, U, SI, R, V, Z
CAMERA (IDS):          ---
COLLIMATOR (IDS):      ---
COLL. FOCUS (IDS):     ---
GRATING (IDS):         ---
DETECTOR:              4xEEV
PIXELS:                2K x 4K
PIXEL SIZE (microns): 13.5
WINDOW:                none
BINNING:               none

WEATHER:                 foggy
OUTSIDE TEMP (deg C):    -0.2            (FIRST HALF)
OUTSIDE TEMP (deg C):    02.6            (SECOND HALF)
HUMIDITY (%):            75-100          (FIRST HALF)
HUMIDITY (%):            70              (SECOND HALF)
CLOUD COVER (%):         00              (FIRST HALF)
CLOUD COVER (%):         00              (SECOND HALF)
DUST (0 - 2):             0              (FIRST HALF)
DUST (0 - 2):             0              (SECOND HALF)
SEEING (arcsec):         1.3             (FIRST HALF)
SEEING (arcsec):         1.8             (SECOND HALF)
AV. SEEING (arcsec):     1.5
NO. SEEING MEASURES:
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UTC	TELESCOPE				CASELLA OUT		CASELLA IN		SEEING	
	AZ	EL	Focus	TComp	Temp	Humid	Temp	Humid	Det./TV	Comments
22:30	057	57	46.03	0.23	00.8	51	01.9	47	1.1	filter SI TC 0.23
01:30	324	74	46.03	0.36	03.0	27	02.4	33	1.3	filter V TC 0.36
03:30	301	55	46.03	0.36	00.8	68	00.8	68	1.8	filter R TC 0.36
04:30	300	42	46.03	0.40	-0.2	75	00.5	71	1.5	filter SI TC 0.40
06:30	201	66	46.02	0.40	01.8	40	01.7	39	1.6	filter SI TC 0.23

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DARK HOURS:            10:16
DOME OPEN (UTC):       22:10
MOON PHASE (D/G/B):        D
DK HRS LOST (WEATHER):02:00
DK HRS LOST (TELESC): 00:00
DK HRS LOST (DOME):    00:00
DK HRS LOST (INSTR.): 00:00
DK HRS LOST (DET.):    00:00
DK HRS LOST (COMPS.): 00:00
DK HRS LOST (A&G):     00:00
DK HRS LOST (OTHER):   00:00

COMMENTS:
Ridge cloud at the start of the night. Seeing generally poor.
D tapes 53 and 55 died unverified.
Run no. Object name              RA         Dec.     Equinox    AM    PA     UT       Exp. T.   Filter      Psys Channel  Binning Comments
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148348	File not available										
148349	File not available										
148350	File not available										
148351	File not available										
148352	File not available										
148353	File not available										
148354	File not available										
148355	File not available										
148356	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:07:35.3	0.0	z	Gunn	1	1 x 1
148357	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:07:35.3	0.0	z	Gunn	5	1 x 1
148358	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:07:35.3	0.0	z	Gunn	3	1 x 1
148359	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:07:35.3	0.0	z	Gunn	4	1 x 1
148360	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:10:26.5	0.0	z	Gunn	1	1 x 1
148361	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:10:26.5	0.0	z	Gunn	5	1 x 1
148362	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:10:26.5	0.0	z	Gunn	3	1 x 1
148363	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:10:26.5	0.0	z	Gunn	4	1 x 1
148364	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:13:17.6	0.0	z	Gunn	1	1 x 1
148365	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:13:17.6	0.0	z	Gunn	5	1 x 1
148366	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:13:17.6	0.0	z	Gunn	3	1 x 1
148367	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:13:17.6	0.0	z	Gunn	4	1 x 1
148368	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:16:08.7	0.0	z	Gunn	1	1 x 1
148369	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:16:08.7	0.0	z	Gunn	5	1 x 1
148370	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:16:08.7	0.0	z	Gunn	3	1 x 1
148371	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:16:08.7	0.0	z	Gunn	4	1 x 1
148372	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:19:00.3	0.0	z	Gunn	1	1 x 1
148373	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:19:00.3	0.0	z	Gunn	5	1 x 1
148374	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:19:00.3	0.0	z	Gunn	3	1 x 1
148375	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:19:00.3	0.0	z	Gunn	4	1 x 1
148376	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:21:51.6	0.0	z	Gunn	1	1 x 1
148377	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:21:51.6	0.0	z	Gunn	5	1 x 1
148378	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:21:51.6	0.0	z	Gunn	3	1 x 1
148379	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:21:51.6	0.0	z	Gunn	4	1 x 1
148380	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:24:41.6	0.0	z	Gunn	1	1 x 1
148381	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:24:41.6	0.0	z	Gunn	5	1 x 1
148382	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:24:41.6	0.0	z	Gunn	3	1 x 1
148383	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:24:41.6	0.0	z	Gunn	4	1 x 1
148384	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:27:31.8	0.0	z	Gunn	1	1 x 1
148385	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:27:31.8	0.0	z	Gunn	5	1 x 1
148386	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:27:31.8	0.0	z	Gunn	3	1 x 1
148387	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:27:31.8	0.0	z	Gunn	4	1 x 1
148388	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:30:22.5	0.0	z	Gunn	1	1 x 1
148389	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:30:22.5	0.0	z	Gunn	5	1 x 1
148390	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:30:22.5	0.0	z	Gunn	3	1 x 1
148391	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:30:22.5	0.0	z	Gunn	4	1 x 1
148392	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:33:12.9	0.0	z	Gunn	1	1 x 1
148393	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:33:12.9	0.0	z	Gunn	5	1 x 1
148394	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:33:12.9	0.0	z	Gunn	3	1 x 1
148395	Bias frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:33:12.9	0.0	z	Gunn	4	1 x 1
148396	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:41:18.4	1200.0	z	Gunn	1	1 x 1
148397	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:41:18.4	1200.0	z	Gunn	5	1 x 1
148398	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:41:18.4	1200.0	z	Gunn	3	1 x 1
148399	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	16:41:18.4	1200.0	z	Gunn	4	1 x 1
148400	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:04:09.4	1200.0	z	Gunn	1	1 x 1
148401	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:04:09.4	1200.0	z	Gunn	5	1 x 1
148402	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:04:09.4	1200.0	z	Gunn	3	1 x 1
148403	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:04:09.4	1200.0	z	Gunn	4	1 x 1
148404	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:27:00.3	1200.0	z	Gunn	1	1 x 1
148405	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:27:00.3	1200.0	z	Gunn	5	1 x 1
148406	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:27:00.3	1200.0	z	Gunn	3	1 x 1
148407	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:27:00.3	1200.0	z	Gunn	4	1 x 1
148408	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:49:51.5	1200.0	z	Gunn	1	1 x 1
148409	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:49:51.5	1200.0	z	Gunn	5	1 x 1

148410	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:49:51.5	1200.0	z	Gunn	3	1 x 1	
148411	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	17:49:51.5	1200.0	z	Gunn	4	1 x 1	
148412	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	18:12:42.6	1200.0	z	Gunn	1	1 x 1	
148413	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	18:12:42.6	1200.0	z	Gunn	5	1 x 1	
148414	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	18:12:42.6	1200.0	z	Gunn	3	1 x 1	
148415	Dark frame	0:00:00.00	+00:00:00.0	A	1.001	360.1	18:12:42.6	1200.0	z	Gunn	4	1 x 1	
148416	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	19:43:60.0	1100.0	z	Gunn	1	1 x 1	
148417	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	19:43:60.0	1100.0	z	Gunn	5	1 x 1	
148418	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	19:43:60.0	1100.0	z	Gunn	3	1 x 1	
148419	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	19:43:60.0	1100.0	z	Gunn	4	1 x 1	
148420	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	20:05:11.5	1100.0	z	Gunn	1	1 x 1	
148421	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	20:05:11.5	1100.0	z	Gunn	5	1 x 1	
148422	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	20:05:11.5	1100.0	z	Gunn	3	1 x 1	
148423	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	20:05:11.5	1100.0	z	Gunn	4	1 x 1	
148424	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	20:26:23.1	1100.0	z	Gunn	1	1 x 1	
148425	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	20:26:23.1	1100.0	z	Gunn	5	1 x 1	
148426	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	20:26:23.1	1100.0	z	Gunn	3	1 x 1	
148427	Dark frame	0:00:00.00	+00:00:00.0	A	1.000	360.1	20:26:23.1	1100.0	z	Gunn	4	1 x 1	
148432	SA95-271B	3:54:17.00	+00:18:49.0	J2000.00	1.253	360.1	21:15:29.4	5.1	B	Kitt Peak	1	1 x 1	
148433	SA95-271B	3:54:17.00	+00:18:49.0	J2000.00	1.253	360.1	21:15:29.4	5.1	B	Kitt Peak	5	1 x 1	
148434	SA95-271B	3:54:17.00	+00:18:49.0	J2000.00	1.253	360.1	21:15:29.4	5.1	B	Kitt Peak	3	1 x 1	
148435	SA95-271B	3:54:17.00	+00:18:49.0	J2000.00	1.253	360.1	21:15:29.4	5.1	B	Kitt Peak	4	1 x 1	
148436	Focus run	3:54:17.00	+00:20:34.0	J2000.00	1.267	360.1	21:22:18.7	5.1	R	Harris	1	1 x 1	
148437	Focus run	3:54:17.00	+00:20:34.0	J2000.00	1.267	360.1	21:22:18.7	5.1	R	Harris	5	1 x 1	
148438	Focus run	3:54:17.00	+00:20:34.0	J2000.00	1.267	360.1	21:22:18.7	5.1	R	Harris	3	1 x 1	
148439	Focus run	3:54:17.00	+00:20:34.0	J2000.00	1.267	360.1	21:22:18.7	5.1	R	Harris	4	1 x 1	
148440	H055 I	9:13:44.93	+41:15:32.4	J2000.00	1.197	360.1	22:13:05.8	1098.8	I	Sloan Gunn	1	1 x 1	
148441	H055 I	9:13:44.93	+41:15:32.4	J2000.00	1.197	360.1	22:13:05.8	1098.8	I	Sloan Gunn	5	1 x 1	
148442	H055 I	9:13:44.93	+41:15:32.4	J2000.00	1.197	360.1	22:13:05.8	1098.8	I	Sloan Gunn	3	1 x 1	
148443	H055 I	9:13:44.93	+41:15:32.4	J2000.00	1.197	360.1	22:13:05.8	1098.8	I	Sloan Gunn	4	1 x 1	slight de-focus
148444	H055 I	4:36:52.46	+20:37:46.1	J2000.00	1.148	360.1	22:34:27.5	1098.8	I	Sloan Gunn	1	1 x 1	
148445	H055 I	4:36:52.46	+20:37:46.1	J2000.00	1.148	360.1	22:34:27.5	1098.8	I	Sloan Gunn	5	1 x 1	
148446	H055 I	4:36:52.46	+20:37:46.1	J2000.00	1.148	360.1	22:34:27.5	1098.8	I	Sloan Gunn	3	1 x 1	
148447	H055 I	4:36:52.46	+20:37:46.1	J2000.00	1.148	360.1	22:34:27.5	1098.8	I	Sloan Gunn	4	1 x 1	
148448	H055 I	4:36:52.46	+20:37:46.1	J2000.00	1.108	360.1	22:56:06.4	1099.0	I	Sloan Gunn	1	1 x 1	
148449	H055 I	4:36:52.46	+20:37:46.1	J2000.00	1.108	360.1	22:56:06.4	1099.0	I	Sloan Gunn	5	1 x 1	
148450	H055 I	4:36:52.46	+20:37:46.1	J2000.00	1.108	360.1	22:56:06.4	1099.0	I	Sloan Gunn	3	1 x 1	
148451	H055 I	4:36:52.46	+20:37:46.1	J2000.00	1.108	360.1	22:56:06.4	1099.0	I	Sloan Gunn	4	1 x 1	
148452	H055 R	9:13:44.92	+41:15:32.4	J2000.00	1.076	360.1	23:17:59.2	1198.7	R	Harris	1	1 x 1	
148453	H055 R	9:13:44.92	+41:15:32.4	J2000.00	1.076	360.1	23:17:59.2	1198.7	R	Harris	5	1 x 1	
148454	H055 R	9:13:44.92	+41:15:32.4	J2000.00	1.076	360.1	23:17:59.2	1198.7	R	Harris	3	1 x 1	
148455	H055 R	9:13:44.92	+41:15:32.4	J2000.00	1.076	360.1	23:17:59.2	1198.7	R	Harris	4	1 x 1	
148456	H055 R	4:36:52.46	+20:37:46.1	J2000.00	1.052	360.1	23:41:03.4	1198.9	R	Harris	1	1 x 1	
148457	H055 R	4:36:52.46	+20:37:46.1	J2000.00	1.052	360.1	23:41:03.4	1198.9	R	Harris	5	1 x 1	
148458	H055 R	4:36:52.46	+20:37:46.1	J2000.00	1.052	360.1	23:41:03.4	1198.9	R	Harris	3	1 x 1	
148459	H055 R	4:36:52.46	+20:37:46.1	J2000.00	1.052	360.1	23:41:03.4	1198.9	R	Harris	4	1 x 1	
148460	H055 R	4:36:52.46	+20:37:46.1	J2000.00	1.035	360.1	00:04:04.2	1198.7	R	Harris	1	1 x 1	
148461	H055 R	4:36:52.46	+20:37:46.1	J2000.00	1.035	360.1	00:04:04.2	1198.7	R	Harris	5	1 x 1	
148462	H055 R	4:36:52.46	+20:37:46.1	J2000.00	1.035	360.1	00:04:04.2	1198.7	R	Harris	3	1 x 1	
148463	H055 R	4:36:52.46	+20:37:46.1	J2000.00	1.035	360.1	00:04:04.2	1198.7	R	Harris	4	1 x 1	
148464	H066 B	9:10:55.10	+41:05:10.9	J2000.00	1.025	360.1	00:30:06.5	899.1	B	Kitt Peak	1	1 x 1	
148465	H066 B	9:10:55.10	+41:05:10.9	J2000.00	1.025	360.1	00:30:06.5	899.1	B	Kitt Peak	5	1 x 1	
148466	H066 B	9:10:55.10	+41:05:10.9	J2000.00	1.025	360.1	00:30:06.5	899.1	B	Kitt Peak	3	1 x 1	
148467	H066 B	9:10:55.10	+41:05:10.9	J2000.00	1.025	360.1	00:30:06.5	899.1	B	Kitt Peak	4	1 x 1	
148468	H066 B	9:10:55.10	+41:05:10.9	J2000.00	1.024	360.1	00:48:09.5	898.8	B	Kitt Peak	1	1 x 1	
148469	H066 B	9:10:55.10	+41:05:10.9	J2000.00	1.024	360.1	00:48:09.5	898.8	B	Kitt Peak	5	1 x 1	
148470	H066 B	9:10:55.10	+41:05:10.9	J2000.00	1.024	360.1	00:48:09.5	898.8	B	Kitt Peak	3	1 x 1	
148471	H066 B	9:10:55.10	+41:05:10.9	J2000.00	1.024	360.1	00:48:09.5	898.8	B	Kitt Peak	4	1 x 1	
148472	H066 B	9:10:55.10	+41:05:10.7	J2000.00	1.027	360.1	01:06:10.3	899.1	B	Kitt Peak	1	1 x 1	
148473	H066 B	9:10:55.10	+41:05:10.7	J2000.00	1.027	360.1	01:06:10.3	899.1	B	Kitt Peak	5	1 x 1	
148474	H066 B	9:10:55.10	+41:05:10.7	J2000.00	1.027	360.1	01:06:10.3	899.1	B	Kitt Peak	3	1 x 1	
148475	H066 B	9:10:55.10	+41:05:10.7	J2000.00	1.027	360.1	01:06:10.3	899.1	B	Kitt Peak	4	1 x 1	

148476	H066	V	9:10:55.09	+41:05:10.8	J2000.00	1.035	360.1	01:24:27.8	998.9	V	Harris	1	1 x 1
148477	H066	V	9:10:55.09	+41:05:10.8	J2000.00	1.035	360.1	01:24:27.8	998.9	V	Harris	5	1 x 1
148478	H066	V	9:10:55.09	+41:05:10.8	J2000.00	1.035	360.1	01:24:27.8	998.9	V	Harris	3	1 x 1
148479	H066	V	9:10:55.09	+41:05:10.8	J2000.00	1.035	360.1	01:24:27.8	998.9	V	Harris	4	1 x 1
148480	H066	V	9:10:55.10	+41:05:11.0	J2000.00	1.048	360.1	01:44:06.8	999.1	V	Harris	1	1 x 1
148481	H066	V	9:10:55.10	+41:05:11.0	J2000.00	1.048	360.1	01:44:06.8	999.1	V	Harris	5	1 x 1
148482	H066	V	9:10:55.10	+41:05:11.0	J2000.00	1.048	360.1	01:44:06.8	999.1	V	Harris	3	1 x 1
148483	H066	V	9:10:55.10	+41:05:11.0	J2000.00	1.048	360.1	01:44:06.8	999.1	V	Harris	4	1 x 1
148484	H066	V	9:10:55.10	+41:05:10.7	J2000.00	1.068	360.1	02:03:49.9	998.9	V	Harris	1	1 x 1
148485	H066	V	9:10:55.10	+41:05:10.7	J2000.00	1.068	360.1	02:03:49.9	998.9	V	Harris	5	1 x 1
148486	H066	V	9:10:55.10	+41:05:10.7	J2000.00	1.068	360.1	02:03:49.9	998.9	V	Harris	3	1 x 1
148487	H066	V	9:10:55.10	+41:05:10.7	J2000.00	1.068	360.1	02:03:49.9	998.9	V	Harris	4	1 x 1
148488	H066	R	9:10:55.09	+41:05:10.9	J2000.00	1.096	360.1	02:23:53.6	1198.8	R	Harris	1	1 x 1
148489	H066	R	9:10:55.09	+41:05:10.9	J2000.00	1.096	360.1	02:23:53.6	1198.8	R	Harris	5	1 x 1
148490	H066	R	9:10:55.09	+41:05:10.9	J2000.00	1.096	360.1	02:23:53.6	1198.8	R	Harris	3	1 x 1
148491	H066	R	9:10:55.09	+41:05:10.9	J2000.00	1.096	360.1	02:23:53.6	1198.8	R	Harris	4	1 x 1
148492	H066	R	9:10:55.10	+41:05:10.8	J2000.00	1.136	360.1	02:46:52.8	1198.8	R	Harris	1	1 x 1
148493	H066	R	9:10:55.10	+41:05:10.8	J2000.00	1.136	360.1	02:46:52.8	1198.8	R	Harris	5	1 x 1
148494	H066	R	9:10:55.10	+41:05:10.8	J2000.00	1.136	360.1	02:46:52.8	1198.8	R	Harris	3	1 x 1
148495	H066	R	9:10:55.10	+41:05:10.8	J2000.00	1.136	360.1	02:46:52.8	1198.8	R	Harris	4	1 x 1 Seeing ~1.8"
148496	H066	R	9:10:55.10	+41:05:10.8	J2000.00	1.186	360.1	03:10:03.9	1198.3	R	Harris	1	1 x 1
148497	H066	R	9:10:55.10	+41:05:10.8	J2000.00	1.186	360.1	03:10:03.9	1198.3	R	Harris	5	1 x 1
148498	H066	R	9:10:55.10	+41:05:10.8	J2000.00	1.186	360.1	03:10:03.9	1198.3	R	Harris	3	1 x 1
148499	H066	R	9:10:55.10	+41:05:10.8	J2000.00	1.186	360.1	03:10:03.9	1198.3	R	Harris	4	1 x 1
148500	H066	I	9:10:55.10	+41:05:10.9	J2000.00	1.250	360.1	03:33:56.8	1099.0	I	Sloan Gunn	1	1 x 1
148501	H066	I	9:10:55.10	+41:05:10.9	J2000.00	1.250	360.1	03:33:56.8	1099.0	I	Sloan Gunn	5	1 x 1
148502	H066	I	9:10:55.10	+41:05:10.9	J2000.00	1.250	360.1	03:33:56.8	1099.0	I	Sloan Gunn	3	1 x 1
148503	H066	I	9:10:55.10	+41:05:10.9	J2000.00	1.250	360.1	03:33:56.8	1099.0	I	Sloan Gunn	4	1 x 1
148504	H055	I	9:10:55.10	+41:05:11.0	J2000.00	1.329	360.1	03:56:57.2	1098.9	I	Sloan Gunn	1	1 x 1
148505	H055	I	9:10:55.10	+41:05:11.0	J2000.00	1.329	360.1	03:56:57.2	1098.9	I	Sloan Gunn	5	1 x 1
148506	H055	I	9:10:55.10	+41:05:11.0	J2000.00	1.329	360.1	03:56:57.2	1098.9	I	Sloan Gunn	3	1 x 1
148507	H055	I	9:10:55.10	+41:05:11.0	J2000.00	1.329	360.1	03:56:57.2	1098.9	I	Sloan Gunn	4	1 x 1
148508	H055	I	9:10:55.10	+41:05:10.9	J2000.00	1.421	360.1	04:18:34.0	1098.9	I	Sloan Gunn	1	1 x 1
148509	H055	I	9:10:55.10	+41:05:10.9	J2000.00	1.421	360.1	04:18:34.0	1098.9	I	Sloan Gunn	5	1 x 1
148510	H055	I	9:10:55.10	+41:05:10.9	J2000.00	1.421	360.1	04:18:34.0	1098.9	I	Sloan Gunn	3	1 x 1
148511	H055	I	9:10:55.10	+41:05:10.9	J2000.00	1.421	360.1	04:18:34.0	1098.9	I	Sloan Gunn	4	1 x 1
148512	H055	Z	9:10:55.10	+41:05:11.0	J2000.00	1.515	360.1	04:41:02.2	599.5	z	Gunn	1	1 x 1
148513	H055	Z	9:10:55.10	+41:05:11.0	J2000.00	1.515	360.1	04:41:02.2	599.5	z	Gunn	5	1 x 1
148514	H055	Z	9:10:55.10	+41:05:11.0	J2000.00	1.515	360.1	04:41:02.2	599.5	z	Gunn	3	1 x 1
148515	H055	Z	9:10:55.10	+41:05:11.0	J2000.00	1.515	360.1	04:41:02.2	599.5	z	Gunn	4	1 x 1
148516	J027	I	16:34:36.37	+46:12:00.6	J2000.00	1.313	360.1	04:57:56.3	1099.0	I	Sloan Gunn	1	1 x 1
148517	J027	I	16:34:36.37	+46:12:00.6	J2000.00	1.313	360.1	04:57:56.3	1099.0	I	Sloan Gunn	5	1 x 1
148518	J027	I	16:34:36.37	+46:12:00.6	J2000.00	1.313	360.1	04:57:56.3	1099.0	I	Sloan Gunn	3	1 x 1
148519	J027	I	16:34:36.37	+46:12:00.6	J2000.00	1.313	360.1	04:57:56.3	1099.0	I	Sloan Gunn	4	1 x 1
148520	J027	I	16:34:36.37	+46:12:01.2	J2000.00	1.248	360.1	05:19:16.3	1099.1	I	Sloan Gunn	1	1 x 1
148521	J027	I	16:34:36.37	+46:12:01.2	J2000.00	1.248	360.1	05:19:16.3	1099.1	I	Sloan Gunn	5	1 x 1
148522	J027	I	16:34:36.37	+46:12:01.2	J2000.00	1.248	360.1	05:19:16.3	1099.1	I	Sloan Gunn	3	1 x 1
148523	J027	I	16:34:36.37	+46:12:01.2	J2000.00	1.248	360.1	05:19:16.3	1099.1	I	Sloan Gunn	4	1 x 1
148524	J027	I	16:34:36.37	+46:12:00.5	J2000.00	1.195	360.1	05:40:34.0	1099.0	I	Sloan Gunn	1	1 x 1
148525	J027	I	16:34:36.37	+46:12:00.5	J2000.00	1.195	360.1	05:40:34.0	1099.0	I	Sloan Gunn	5	1 x 1
148526	J027	I	16:34:36.37	+46:12:00.5	J2000.00	1.195	360.1	05:40:34.0	1099.0	I	Sloan Gunn	3	1 x 1
148527	J027	I	16:34:36.37	+46:12:00.5	J2000.00	1.195	360.1	05:40:34.0	1099.0	I	Sloan Gunn	4	1 x 1
148528	J028	V	16:37:41.30	+46:22:22.2	J2000.00	1.156	312.4	06:03:00.8	998.9	V	Harris	1	1 x 1
148529	J028	V	16:37:41.30	+46:22:22.2	J2000.00	1.156	312.4	06:03:00.8	998.9	V	Harris	5	1 x 1
148530	J028	V	16:37:41.30	+46:22:22.2	J2000.00	1.156	312.4	06:03:00.8	998.9	V	Harris	3	1 x 1
148531	J028	V	16:37:41.30	+46:22:22.2	J2000.00	1.156	312.4	06:03:00.8	998.9	V	Harris	4	1 x 1
148532	J013	I	16:34:23.57	+46:35:33.4	J2000.00	1.107	180.0	06:32:45.4	1098.7	I	Sloan Gunn	1	1 x 1
148533	J013	I	16:34:23.57	+46:35:33.4	J2000.00	1.107	180.0	06:32:45.4	1098.7	I	Sloan Gunn	5	1 x 1
148534	J013	I	16:34:23.57	+46:35:33.4	J2000.00	1.107	180.0	06:32:45.4	1098.7	I	Sloan Gunn	3	1 x 1 twilight
148535	J013	I	16:34:23.57	+46:35:33.4	J2000.00	1.107	180.0	06:32:45.4	1098.7	I	Sloan Gunn	4	1 x 1
148536	J015	Z	16:37:29.84	+46:45:54.9	J2000.00	1.086	180.0	06:58:45.5	599.4	z	Gunn	1	1 x 1
148537	J015	Z	16:37:29.84	+46:45:54.9	J2000.00	1.086	180.0	06:58:45.5	599.4	z	Gunn	5	1 x 1

148538	J015 Z	16:37:29.84	+46:45:54.9	J2000.00	1.086	180.0	06:58:45.5	599.4	z	Gunn	3	1 x 1 very twilight
148539	J015 Z	16:37:29.84	+46:45:54.9	J2000.00	1.086	180.0	06:58:45.5	599.4	z	Gunn	4	1 x 1
148540	Flat field	13:04:32.99	+29:50:49.0	B1950.00	1.181	180.0	07:14:07.0	82.9	R	Harris	1	1 x 1
148541	Flat field	13:04:32.99	+29:50:49.0	B1950.00	1.181	180.0	07:14:07.0	82.9	R	Harris	5	1 x 1
148542	Flat field	13:04:32.99	+29:50:49.0	B1950.00	1.181	180.0	07:14:07.0	82.9	R	Harris	3	1 x 1
148543	Flat field	13:04:32.99	+29:50:49.0	B1950.00	1.181	180.0	07:14:07.0	82.9	R	Harris	4	1 x 1
148544	Flat field	13:04:31.46	+29:51:08.9	B1950.00	1.193	180.0	07:18:55.7	29.5	R	Harris	1	1 x 1
148545	Flat field	13:04:31.46	+29:51:08.9	B1950.00	1.193	180.0	07:18:55.7	29.5	R	Harris	5	1 x 1
148546	Flat field	13:04:31.46	+29:51:08.9	B1950.00	1.193	180.0	07:18:55.7	29.5	R	Harris	3	1 x 1
148547	Flat field	13:04:31.46	+29:51:08.9	B1950.00	1.193	180.0	07:18:55.7	29.5	R	Harris	4	1 x 1
148548	Flat field	13:04:31.46	+29:51:08.9	B1950.00	1.204	180.0	07:22:36.6	12.0	R	Harris	1	1 x 1
148549	Flat field	13:04:31.46	+29:51:08.9	B1950.00	1.204	180.0	07:22:36.6	12.0	R	Harris	5	1 x 1
148550	Flat field	13:04:31.46	+29:51:08.9	B1950.00	1.204	180.0	07:22:36.6	12.0	R	Harris	3	1 x 1
148551	Flat field	13:04:31.46	+29:51:08.9	B1950.00	1.204	180.0	07:22:36.6	12.0	R	Harris	4	1 x 1
148552	Flat field	13:04:29.92	+29:50:48.9	B1950.00	1.216	180.0	07:26:34.2	4.3	R	Harris	1	1 x 1
148553	Flat field	13:04:29.92	+29:50:48.9	B1950.00	1.216	180.0	07:26:34.2	4.3	R	Harris	5	1 x 1
148554	Flat field	13:04:29.92	+29:50:48.9	B1950.00	1.216	180.0	07:26:34.2	4.3	R	Harris	3	1 x 1
148555	Flat field	13:04:29.92	+29:50:48.9	B1950.00	1.216	180.0	07:26:34.2	4.3	R	Harris	4	1 x 1
148556	RFLAT	13:04:29.92	+29:51:28.9	B1950.00	1.229	180.0	07:30:40.7	1.1	R	Harris	1	1 x 1
148557	RFLAT	13:04:29.92	+29:51:28.9	B1950.00	1.229	180.0	07:30:40.7	1.1	R	Harris	5	1 x 1
148558	RFLAT	13:04:29.92	+29:51:28.9	B1950.00	1.229	180.0	07:30:40.7	1.1	R	Harris	3	1 x 1
148559	RFLAT	13:04:29.92	+29:51:28.9	B1950.00	1.229	180.0	07:30:40.7	1.1	R	Harris	4	1 x 1