INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:            INT
DATE:                 1999 Aug 10/11
INT TAPE NR:          INTD 4148
OBSERVER:             M. Bremer
PROGRAMME:            INT WAS
PATT/CAT:             WFS 09
TELESCOPE OPERATOR:   ---
SUPPORT ASTRONOMER:   ---

FOCUS:                Prime
INSTRUMENT:           WFC
FILTER WHEEL (PF):    KP, g, r, i, Z, U,
CAMERA (IDS):         -
COLLIMATOR (IDS):     -
COLL. FOCUS (IDS):    -
GRATING (IDS):        -
DETECTOR:             EEVX4
PIXELS:               2148x4146
PIXEL SIZE (microns):
WINDOW:               Xstart=0, Xsize=, Ystart=0, Ysize=
BINNING:              in X=1, in Y=1

WEATHER:              Good/Fair
OUTSIDE TEMP (deg C):   10.5            (FIRST HALF)
OUTSIDE TEMP (deg C):   12              (SECOND HALF)
HUMIDITY (%):            -              (FIRST HALF)
HUMIDITY (%):            -              (SECOND HALF)
CLOUD COVER (%):         0              (FIRST HALF)
CLOUD COVER (%):         20              (SECOND HALF)
DUST (0 - 2):            0              (FIRST HALF)
DUST (0 - 2):            0              (SECOND HALF)
SEEING (arcsec):         -              (FIRST HALF)
SEEING (arcsec):         -              (SECOND HALF)
AV. SEEING (arcsec):     -
NO. SEEING MEASURES:     0

UTC    TELESCOPE                CASELLA OUT   CASELLA IN    SEEING
       AZ   ZD  Focus  TC       Temp   Humid  Temp   Humid  Det./TV  Com
DARK HOURS:           07:48
DOME OPEN (UTC):      19:15
MOON PHASE (D/G/B):     D
DK HRS LOST (WEATHER):00:00
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:
Good for 1st half of night,
dust moving in from UT 04 - lots of cirrus + cloud by UT 05.
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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys	Channel	Binning	Comments
188119	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	13:45:57.4	0.0	r	Sloan	1	1 x 1	
188120	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	13:45:57.4	0.0	r	Sloan	5	1 x 1	
188121	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	13:45:57.4	0.0	r	Sloan	3	1 x 1	

188122	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	13:45:57.4	0.0	r	Sloan	4	1 x 1
188123	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.332	179.7	20:13:59.9	0.0	r	Sloan	1	1 x 1
188124	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.332	179.7	20:13:59.9	0.0	r	Sloan	5	1 x 1
188125	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.332	179.7	20:13:59.9	0.0	r	Sloan	3	1 x 1
188126	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.332	179.7	20:13:59.9	0.0	r	Sloan	4	1 x 1
188127	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.345	179.7	20:16:52.9	0.0	r	Sloan	1	1 x 1
188128	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.345	179.7	20:16:52.9	0.0	r	Sloan	5	1 x 1
188129	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.345	179.7	20:16:52.9	0.0	r	Sloan	3	1 x 1
188130	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.345	179.7	20:16:52.9	0.0	r	Sloan	4	1 x 1
188131	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.358	179.7	20:19:45.1	0.0	r	Sloan	1	1 x 1
188132	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.358	179.7	20:19:45.1	0.0	r	Sloan	5	1 x 1
188133	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.358	179.7	20:19:45.1	0.0	r	Sloan	3	1 x 1
188134	Bias frame	13:04:33.00	+29:50:48.9	B1950.00	1.358	179.7	20:19:45.1	0.0	r	Sloan	4	1 x 1
188135	Flat field	0:00:00.00	+00:00:00.0	B1950.00	1.374	179.7	20:25:09.2	3.8	r	Sloan	1	1 x 1
188136	Flat field	0:00:00.00	+00:00:00.0	B1950.00	1.374	179.7	20:25:09.2	3.8	r	Sloan	5	1 x 1
188137	Flat field	0:00:00.00	+00:00:00.0	B1950.00	1.374	179.7	20:25:09.2	3.8	r	Sloan	3	1 x 1
188138	Flat field	0:00:00.00	+00:00:00.0	B1950.00	1.374	179.7	20:25:09.2	3.8	r	Sloan	4	1 x 1
188139	Flat field	0:00:00.00	+00:00:00.0	B1950.00	1.374	179.7	20:28:30.5	7.8	r	Sloan	1	1 x 1
188140	Flat field	0:00:00.00	+00:00:00.0	B1950.00	1.374	179.7	20:28:30.5	7.8	r	Sloan	5	1 x 1
188141	Flat field	0:00:00.00	+00:00:00.0	B1950.00	1.374	179.7	20:28:30.5	7.8	r	Sloan	3	1 x 1
188142	Flat field	0:00:00.00	+00:00:00.0	B1950.00	1.374	179.7	20:28:30.5	7.8	r	Sloan	4	1 x 1
188143	Flat field	13:04:33.77	+29:51:03.9	B1950.00	1.419	179.7	20:31:49.3	16.9	r	Sloan	1	1 x 1
188144	Flat field	13:04:33.77	+29:51:03.9	B1950.00	1.419	179.7	20:31:49.3	16.9	r	Sloan	5	1 x 1
188145	Flat field	13:04:33.77	+29:51:03.9	B1950.00	1.419	179.7	20:31:49.3	16.9	r	Sloan	3	1 x 1
188146	Flat field	13:04:33.77	+29:51:03.9	B1950.00	1.419	179.7	20:31:49.3	16.9	r	Sloan	4	1 x 1
188147	Flat field	13:04:32.23	+29:51:04.0	B1950.00	1.439	179.7	20:35:26.5	27.7	g	Sloan	1	1 x 1
188148	Flat field	13:04:32.23	+29:51:04.0	B1950.00	1.439	179.7	20:35:26.5	27.7	g	Sloan	5	1 x 1
188149	Flat field	13:04:32.23	+29:51:04.0	B1950.00	1.439	179.7	20:35:26.5	27.7	g	Sloan	3	1 x 1
188150	Flat field	13:04:32.23	+29:51:04.0	B1950.00	1.439	179.7	20:35:26.5	27.7	g	Sloan	4	1 x 1
188151	Flat field	13:04:32.99	+29:50:48.9	B1950.00	1.462	179.7	20:39:18.2	56.9	g	Sloan	1	1 x 1
188152	Flat field	13:04:32.99	+29:50:48.9	B1950.00	1.462	179.7	20:39:18.2	56.9	g	Sloan	5	1 x 1
188153	Flat field	13:04:32.99	+29:50:48.9	B1950.00	1.462	179.7	20:39:18.2	56.9	g	Sloan	3	1 x 1
188154	Flat field	13:04:32.99	+29:50:48.9	B1950.00	1.462	179.7	20:39:18.2	56.9	g	Sloan	4	1 x 1
188159	g flat	13:04:33.76	+29:50:33.9	B1950.00	1.506	179.7	20:46:07.1	129.9	g	Sloan	1	1 x 1
188160	g flat	13:04:33.76	+29:50:33.9	B1950.00	1.506	179.7	20:46:07.1	129.9	g	Sloan	5	1 x 1
188161	g flat	13:04:33.76	+29:50:33.9	B1950.00	1.506	179.7	20:46:07.1	129.9	g	Sloan	3	1 x 1
188162	g flat	13:04:33.76	+29:50:33.9	B1950.00	1.506	179.7	20:46:07.1	129.9	g	Sloan	4	1 x 1
188163	Focus run	15:39:19.00	-00:14:44.0	J2000.00	1.258	179.7	21:15:32.8	10.1	r	Sloan	1	1 x 1
188164	Focus run	15:39:19.00	-00:14:44.0	J2000.00	1.258	179.7	21:15:32.8	10.1	r	Sloan	5	1 x 1
188165	Focus run	15:39:19.00	-00:14:44.0	J2000.00	1.258	179.7	21:15:32.8	10.1	r	Sloan	3	1 x 1
188166	Focus run	15:39:19.00	-00:14:44.0	J2000.00	1.258	179.7	21:15:32.8	10.1	r	Sloan	4	1 x 1
188167	sa107-602 r	15:39:19.00	-00:13:58.9	J2000.00	1.281	179.7	21:22:32.0	9.7	r	Sloan	1	1 x 1
188168	sa107-602 r	15:39:19.00	-00:13:58.9	J2000.00	1.281	179.7	21:22:32.0	9.7	r	Sloan	5	1 x 1
188169	sa107-602 r	15:39:19.00	-00:13:58.9	J2000.00	1.281	179.7	21:22:32.0	9.7	r	Sloan	3	1 x 1
188170	sa107-602 r	15:39:19.00	-00:13:58.9	J2000.00	1.281	179.7	21:22:32.0	9.7	r	Sloan	4	1 x 1
188171	sa107-602 g	15:39:19.00	-00:13:59.0	J2000.00	1.295	179.7	21:27:21.3	10.1	g	Sloan	1	1 x 1
188172	sa107-602 g	15:39:19.00	-00:13:59.0	J2000.00	1.295	179.7	21:27:21.3	10.1	g	Sloan	5	1 x 1
188173	sa107-602 g	15:39:19.00	-00:13:59.0	J2000.00	1.295	179.7	21:27:21.3	10.1	g	Sloan	3	1 x 1
188174	sa107-602 g	15:39:19.00	-00:13:59.0	J2000.00	1.295	179.7	21:27:21.3	10.1	g	Sloan	4	1 x 1
188175	sa107-602 U	15:39:18.99	-00:13:58.9	J2000.00	1.310	179.7	21:32:01.2	10.1	U	RGO	1	1 x 1
188176	sa107-602 U	15:39:18.99	-00:13:58.9	J2000.00	1.310	179.7	21:32:01.2	10.1	U	RGO	5	1 x 1
188177	sa107-602 U	15:39:18.99	-00:13:58.9	J2000.00	1.310	179.7	21:32:01.2	10.1	U	RGO	3	1 x 1
188178	sa107-602 U	15:39:18.99	-00:13:58.9	J2000.00	1.310	179.7	21:32:01.2	10.1	U	RGO	4	1 x 1
188179	sa107-602 U	15:39:19.00	-00:13:59.0	J2000.00	1.323	179.7	21:35:22.6	99.9	U	RGO	1	1 x 1
188180	sa107-602 U	15:39:19.00	-00:13:59.0	J2000.00	1.323	179.7	21:35:22.6	99.9	U	RGO	5	1 x 1
188181	sa107-602 U	15:39:19.00	-00:13:59.0	J2000.00	1.323	179.7	21:35:22.6	99.9	U	RGO	3	1 x 1
188182	sa107-602 U	15:39:19.00	-00:13:59.0	J2000.00	1.323	179.7	21:35:22.6	99.9	U	RGO	4	1 x 1
188183	wfsj1610+5430_007	16:00:39.80	+55:09:59.9	J2000.00	1.196	179.7	21:44:28.8	599.4	U	RGO	1	1 x 1
188184	wfsj1610+5430_007	16:00:39.80	+55:09:59.9	J2000.00	1.196	179.7	21:44:28.8	599.4	U	RGO	5	1 x 1
188185	wfsj1610+5430_007	16:00:39.80	+55:09:59.9	J2000.00	1.196	179.7	21:44:28.8	599.4	U	RGO	3	1 x 1
188186	wfsj1610+5430_007	16:00:39.80	+55:09:59.9	J2000.00	1.196	179.7	21:44:28.8	599.4	U	RGO	4	1 x 1
188187	wfsj1610+5430_003	16:00:57.80	+53:49:59.9	J2000.00	1.208	179.7	21:59:20.0	599.6	U	RGO	1	1 x 1

188188	wfsj1610+5430_003	16:00:57.80	+53:49:59.9	J2000.00	1.208	179.7	21:59:20.0	599.6	U	RGO	5	1 x 1
188189	wfsj1610+5430_003	16:00:57.80	+53:49:59.9	J2000.00	1.208	179.7	21:59:20.0	599.6	U	RGO	3	1 x 1
188190	wfsj1610+5430_003	16:00:57.80	+53:49:59.9	J2000.00	1.208	179.7	21:59:20.0	599.6	U	RGO	4	1 x 1
188191	wfsj1610+5430_012	16:04:34.70	+53:50:00.0	J2000.00	1.228	179.7	22:14:03.8	599.4	U	RGO	1	1 x 1
188192	wfsj1610+5430_012	16:04:34.70	+53:50:00.0	J2000.00	1.228	179.7	22:14:03.8	599.4	U	RGO	5	1 x 1
188193	wfsj1610+5430_012	16:04:34.70	+53:50:00.0	J2000.00	1.228	179.7	22:14:03.8	599.4	U	RGO	3	1 x 1
188194	wfsj1610+5430_012	16:04:34.70	+53:50:00.0	J2000.00	1.228	179.7	22:14:03.8	599.4	U	RGO	4	1 x 1
188195	wfsj1610+5430_029	16:11:47.60	+53:30:00.0	J2000.00	1.241	179.7	22:29:00.8	599.4	U	RGO	1	1 x 1
188196	wfsj1610+5430_029	16:11:47.60	+53:30:00.0	J2000.00	1.241	179.7	22:29:00.8	599.4	U	RGO	5	1 x 1
188197	wfsj1610+5430_029	16:11:47.60	+53:30:00.0	J2000.00	1.241	179.7	22:29:00.8	599.4	U	RGO	3	1 x 1
188198	wfsj1610+5430_029	16:11:47.60	+53:30:00.0	J2000.00	1.241	179.7	22:29:00.8	599.4	U	RGO	4	1 x 1
188199	wfsj1610+5430_048	16:19:02.20	+53:49:59.9	J2000.00	1.260	179.7	22:43:50.4	599.5	U	RGO	1	1 x 1
188200	wfsj1610+5430_048	16:19:02.20	+53:49:59.9	J2000.00	1.260	179.7	22:43:50.4	599.5	U	RGO	5	1 x 1
188201	wfsj1610+5430_048	16:19:02.20	+53:49:59.9	J2000.00	1.260	179.7	22:43:50.4	599.5	U	RGO	3	1 x 1
188202	wfsj1610+5430_048	16:19:02.20	+53:49:59.9	J2000.00	1.260	179.7	22:43:50.4	599.5	U	RGO	4	1 x 1
188203	Mark-A U	20:43:59.20	-10:47:42.0	J2000.00	1.444	179.7	23:00:16.2	29.6	U	RGO	1	1 x 1
188204	Mark-A U	20:43:59.20	-10:47:42.0	J2000.00	1.444	179.7	23:00:16.2	29.6	U	RGO	5	1 x 1
188205	Mark-A U	20:43:59.20	-10:47:42.0	J2000.00	1.444	179.7	23:00:16.2	29.6	U	RGO	3	1 x 1
188206	Mark-A U	20:43:59.20	-10:47:42.0	J2000.00	1.444	179.7	23:00:16.2	29.6	U	RGO	4	1 x 1
188207	Mark-A g	20:43:59.20	-10:47:41.9	J2000.00	1.430	179.7	23:04:40.3	10.1	g	Sloan	1	1 x 1
188208	Mark-A g	20:43:59.20	-10:47:41.9	J2000.00	1.430	179.7	23:04:40.3	10.1	g	Sloan	5	1 x 1
188209	Mark-A g	20:43:59.20	-10:47:41.9	J2000.00	1.430	179.7	23:04:40.3	10.1	g	Sloan	3	1 x 1
188210	Mark-A g	20:43:59.20	-10:47:41.9	J2000.00	1.430	179.7	23:04:40.3	10.1	g	Sloan	4	1 x 1
188215	Mark-A r	20:43:59.20	-10:47:42.0	J2000.00	1.411	179.7	23:11:10.6	10.1	r	Sloan	1	1 x 1
188216	Mark-A r	20:43:59.20	-10:47:42.0	J2000.00	1.411	179.7	23:11:10.6	10.1	r	Sloan	5	1 x 1
188217	Mark-A r	20:43:59.20	-10:47:42.0	J2000.00	1.411	179.7	23:11:10.6	10.1	r	Sloan	3	1 x 1
188218	Mark-A r	20:43:59.20	-10:47:42.0	J2000.00	1.411	179.7	23:11:10.6	10.1	r	Sloan	4	1 x 1
188223	wfssgc033	23:04:00.00	-00:00:00.1	J2000.00	1.861	179.7	23:25:16.5	599.0	g	Sloan	1	1 x 1
188224	wfssgc033	23:04:00.00	-00:00:00.1	J2000.00	1.861	179.7	23:25:16.5	599.0	g	Sloan	5	1 x 1
188225	wfssgc033	23:04:00.00	-00:00:00.1	J2000.00	1.861	179.7	23:25:16.5	599.0	g	Sloan	3	1 x 1
188226	wfssgc033	23:04:00.00	-00:00:00.1	J2000.00	1.861	179.7	23:25:16.5	599.0	g	Sloan	4	1 x 1
188227	wfssgc034	23:06:00.00	+00:00:00.0	J2000.00	1.739	179.7	23:40:04.9	599.2	g	Sloan	1	1 x 1
188228	wfssgc034	23:06:00.00	+00:00:00.0	J2000.00	1.739	179.7	23:40:04.9	599.2	g	Sloan	5	1 x 1
188229	wfssgc034	23:06:00.00	+00:00:00.0	J2000.00	1.739	179.7	23:40:04.9	599.2	g	Sloan	3	1 x 1
188230	wfssgc034	23:06:00.00	+00:00:00.0	J2000.00	1.739	179.7	23:40:04.9	599.2	g	Sloan	4	1 x 1
188231	wfssgc035	23:08:00.00	-00:00:00.0	J2000.00	1.636	179.7	23:54:53.7	599.4	g	Sloan	1	1 x 1
188232	wfssgc035	23:08:00.00	-00:00:00.0	J2000.00	1.636	179.7	23:54:53.7	599.4	g	Sloan	5	1 x 1
188233	wfssgc035	23:08:00.00	-00:00:00.0	J2000.00	1.636	179.7	23:54:53.7	599.4	g	Sloan	3	1 x 1
188234	wfssgc035	23:08:00.00	-00:00:00.0	J2000.00	1.636	179.7	23:54:53.7	599.4	g	Sloan	4	1 x 1
188235	wfssgc039	23:16:00.00	-00:00:00.0	J2000.00	1.588	179.7	00:09:45.3	599.5	g	Sloan	1	1 x 1
188236	wfssgc039	23:16:00.00	-00:00:00.0	J2000.00	1.588	179.7	00:09:45.3	599.5	g	Sloan	5	1 x 1
188237	wfssgc039	23:16:00.00	-00:00:00.0	J2000.00	1.588	179.7	00:09:45.3	599.5	g	Sloan	3	1 x 1
188238	wfssgc039	23:16:00.00	-00:00:00.0	J2000.00	1.588	179.7	00:09:45.3	599.5	g	Sloan	4	1 x 1
188239	wfssgc040	23:18:00.00	-00:00:00.0	J2000.00	1.508	179.7	00:24:35.5	599.5	g	Sloan	1	1 x 1
188240	wfssgc040	23:18:00.00	-00:00:00.0	J2000.00	1.508	179.7	00:24:35.5	599.5	g	Sloan	5	1 x 1
188241	wfssgc040	23:18:00.00	-00:00:00.0	J2000.00	1.508	179.7	00:24:35.5	599.5	g	Sloan	3	1 x 1
188242	wfssgc040	23:18:00.00	-00:00:00.0	J2000.00	1.508	179.7	00:24:35.5	599.5	g	Sloan	4	1 x 1
188243	wfssgc041	23:19:59.99	-00:00:00.1	J2000.00	1.441	179.7	00:39:23.7	599.3	g	Sloan	1	1 x 1
188244	wfssgc041	23:19:59.99	-00:00:00.1	J2000.00	1.441	179.7	00:39:23.7	599.3	g	Sloan	5	1 x 1
188245	wfssgc041	23:19:59.99	-00:00:00.1	J2000.00	1.441	179.7	00:39:23.7	599.3	g	Sloan	3	1 x 1
188246	wfssgc041	23:19:59.99	-00:00:00.1	J2000.00	1.441	179.7	00:39:23.7	599.3	g	Sloan	4	1 x 1
188247	sa113-163 g	21:42:35.00	+00:16:46.0	J2000.00	1.159	179.7	00:53:26.9	10.1	g	Sloan	1	1 x 1
188248	sa113-163 g	21:42:35.00	+00:16:46.0	J2000.00	1.159	179.7	00:53:26.9	10.1	g	Sloan	5	1 x 1
188249	sa113-163 g	21:42:35.00	+00:16:46.0	J2000.00	1.159	179.7	00:53:26.9	10.1	g	Sloan	3	1 x 1
188250	sa113-163 g	21:42:35.00	+00:16:46.0	J2000.00	1.159	179.7	00:53:26.9	10.1	g	Sloan	4	1 x 1
188255	sa113-163 r	21:42:35.00	+00:16:45.9	J2000.00	1.153	179.7	00:59:43.1	10.1	r	Sloan	1	1 x 1
188256	sa113-163 r	21:42:35.00	+00:16:45.9	J2000.00	1.153	179.7	00:59:43.1	10.1	r	Sloan	5	1 x 1
188257	sa113-163 r	21:42:35.00	+00:16:45.9	J2000.00	1.153	179.7	00:59:43.1	10.1	r	Sloan	3	1 x 1
188258	sa113-163 r	21:42:35.00	+00:16:45.9	J2000.00	1.153	179.7	00:59:43.1	10.1	r	Sloan	4	1 x 1
188267	test	0:00:00.00	+00:00:00.0	J2000.00	1.606	179.7	01:12:15.7	10.1	g	Sloan	1	1 x 1
188268	test	0:00:00.00	+00:00:00.0	J2000.00	1.606	179.7	01:12:15.7	10.1	g	Sloan	5	1 x 1
188269	test	0:00:00.00	+00:00:00.0	J2000.00	1.606	179.7	01:12:15.7	10.1	g	Sloan	3	1 x 1

188270	test	0:00:00.00	+00:00:00.0	J2000.00	1.606	179.7	01:12:15.7	10.1	g	Sloan	4	1 x 1
188271	wfssgc069	0:15:59.99	-00:00:00.0	J2000.00	1.539	179.7	01:17:12.5	599.5	g	Sloan	1	1 x 1
188272	wfssgc069	0:15:59.99	-00:00:00.0	J2000.00	1.539	179.7	01:17:12.5	599.5	g	Sloan	5	1 x 1
188273	wfssgc069	0:15:59.99	-00:00:00.0	J2000.00	1.539	179.7	01:17:12.5	599.5	g	Sloan	3	1 x 1
188274	wfssgc069	0:15:59.99	-00:00:00.0	J2000.00	1.539	179.7	01:17:12.5	599.5	g	Sloan	4	1 x 1
188275	wfssgc070	0:17:59.99	+00:00:00.0	J2000.00	1.467	179.7	01:31:57.3	599.6	g	Sloan	1	1 x 1
188276	wfssgc070	0:17:59.99	+00:00:00.0	J2000.00	1.467	179.7	01:31:57.3	599.6	g	Sloan	5	1 x 1
188277	wfssgc070	0:17:59.99	+00:00:00.0	J2000.00	1.467	179.7	01:31:57.3	599.6	g	Sloan	3	1 x 1
188278	wfssgc070	0:17:59.99	+00:00:00.0	J2000.00	1.467	179.7	01:31:57.3	599.6	g	Sloan	4	1 x 1
188279	wfssgc071	0:19:59.99	-00:00:00.1	J2000.00	1.406	179.7	01:46:46.7	599.5	g	Sloan	1	1 x 1
188280	wfssgc071	0:19:59.99	-00:00:00.1	J2000.00	1.406	179.7	01:46:46.7	599.5	g	Sloan	5	1 x 1
188281	wfssgc071	0:19:59.99	-00:00:00.1	J2000.00	1.406	179.7	01:46:46.7	599.5	g	Sloan	3	1 x 1
188282	wfssgc071	0:19:59.99	-00:00:00.1	J2000.00	1.406	179.7	01:46:46.7	599.5	g	Sloan	4	1 x 1
188283	wfssgc086	0:49:59.99	-00:00:00.0	J2000.00	1.479	179.7	02:01:37.7	599.4	g	Sloan	1	1 x 1
188284	wfssgc086	0:49:59.99	-00:00:00.0	J2000.00	1.479	179.7	02:01:37.7	599.4	g	Sloan	5	1 x 1
188285	wfssgc086	0:49:59.99	-00:00:00.0	J2000.00	1.479	179.7	02:01:37.7	599.4	g	Sloan	3	1 x 1
188286	wfssgc086	0:49:59.99	-00:00:00.0	J2000.00	1.479	179.7	02:01:37.7	599.4	g	Sloan	4	1 x 1
188287	wfssgc087	0:52:00.00	-00:00:00.0	J2000.00	1.417	179.7	02:16:18.5	599.4	g	Sloan	1	1 x 1
188288	wfssgc087	0:52:00.00	-00:00:00.0	J2000.00	1.417	179.7	02:16:18.5	599.4	g	Sloan	5	1 x 1
188289	wfssgc087	0:52:00.00	-00:00:00.0	J2000.00	1.417	179.7	02:16:18.5	599.4	g	Sloan	3	1 x 1
188290	wfssgc087	0:52:00.00	-00:00:00.0	J2000.00	1.417	179.7	02:16:18.5	599.4	g	Sloan	4	1 x 1
188291	wfssgc088	0:53:59.99	-00:00:00.1	J2000.00	1.363	179.7	02:31:02.6	599.5	g	Sloan	1	1 x 1
188292	wfssgc088	0:53:59.99	-00:00:00.1	J2000.00	1.363	179.7	02:31:02.6	599.5	g	Sloan	5	1 x 1
188293	wfssgc088	0:53:59.99	-00:00:00.1	J2000.00	1.363	179.7	02:31:02.6	599.5	g	Sloan	3	1 x 1
188294	wfssgc088	0:53:59.99	-00:00:00.1	J2000.00	1.363	179.7	02:31:02.6	599.5	g	Sloan	4	1 x 1
188299	M31-microfld1	0:44:00.00	+41:33:59.8	J2000.00	1.097	179.7	02:51:01.6	698.8	r	Sloan	1	1 x 1
188300	M31-microfld1	0:44:00.00	+41:33:59.8	J2000.00	1.097	179.7	02:51:01.6	698.8	r	Sloan	5	1 x 1
188301	M31-microfld1	0:44:00.00	+41:33:59.8	J2000.00	1.097	179.7	02:51:01.6	698.8	r	Sloan	3	1 x 1
188302	M31-microfld1	0:44:00.00	+41:33:59.8	J2000.00	1.097	179.7	02:51:01.6	698.8	r	Sloan	4	1 x 1
188303	M31-microfld1	0:43:59.99	+41:33:59.9	J2000.00	1.077	179.7	03:05:55.7	699.2	g	Sloan	1	1 x 1
188304	M31-microfld1	0:43:59.99	+41:33:59.9	J2000.00	1.077	179.7	03:05:55.7	699.2	g	Sloan	5	1 x 1
188305	M31-microfld1	0:43:59.99	+41:33:59.9	J2000.00	1.077	179.7	03:05:55.7	699.2	g	Sloan	3	1 x 1
188306	M31-microfld1	0:43:59.99	+41:33:59.9	J2000.00	1.077	179.7	03:05:55.7	699.2	g	Sloan	4	1 x 1
188307	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.056	179.7	03:22:45.5	698.8	r	Sloan	1	1 x 1
188308	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.056	179.7	03:22:45.5	698.8	r	Sloan	5	1 x 1
188309	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.056	179.7	03:22:45.5	698.8	r	Sloan	3	1 x 1
188310	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.056	179.7	03:22:45.5	698.8	r	Sloan	4	1 x 1
188311	M31-microfld2	0:43:09.99	+40:58:14.9	J2000.00	1.043	179.7	03:37:38.9	699.4	g	Sloan	1	1 x 1
188312	M31-microfld2	0:43:09.99	+40:58:14.9	J2000.00	1.043	179.7	03:37:38.9	699.4	g	Sloan	5	1 x 1
188313	M31-microfld2	0:43:09.99	+40:58:14.9	J2000.00	1.043	179.7	03:37:38.9	699.4	g	Sloan	3	1 x 1
188314	M31-microfld2	0:43:09.99	+40:58:14.9	J2000.00	1.043	179.7	03:37:38.9	699.4	g	Sloan	4	1 x 1
188315	wfssgc102	1:21:59.99	+00:00:00.0	J2000.00	1.207	179.7	03:54:59.4	599.4	g	Sloan	1	1 x 1
188316	wfssgc102	1:21:59.99	+00:00:00.0	J2000.00	1.207	179.7	03:54:59.4	599.4	g	Sloan	5	1 x 1
188317	wfssgc102	1:21:59.99	+00:00:00.0	J2000.00	1.207	179.7	03:54:59.4	599.4	g	Sloan	3	1 x 1
188318	wfssgc102	1:21:59.99	+00:00:00.0	J2000.00	1.207	179.7	03:54:59.4	599.4	g	Sloan	4	1 x 1
188319	wfssgc103	1:23:59.99	-00:00:00.0	J2000.00	1.186	179.7	04:09:38.8	599.5	g	Sloan	1	1 x 1
188320	wfssgc103	1:23:59.99	-00:00:00.0	J2000.00	1.186	179.7	04:09:38.8	599.5	g	Sloan	5	1 x 1
188321	wfssgc103	1:23:59.99	-00:00:00.0	J2000.00	1.186	179.7	04:09:38.8	599.5	g	Sloan	3	1 x 1
188322	wfssgc103	1:23:59.99	-00:00:00.0	J2000.00	1.186	179.7	04:09:38.8	599.5	g	Sloan	4	1 x 1
188323	wfssgc104	1:25:59.99	-00:00:00.1	J2000.00	1.170	179.7	04:24:19.4	598.9	g	Sloan	1	1 x 1
188324	wfssgc104	1:25:59.99	-00:00:00.1	J2000.00	1.170	179.7	04:24:19.4	598.9	g	Sloan	5	1 x 1
188325	wfssgc104	1:25:59.99	-00:00:00.1	J2000.00	1.170	179.7	04:24:19.4	598.9	g	Sloan	3	1 x 1
188326	wfssgc104	1:25:59.99	-00:00:00.1	J2000.00	1.170	179.7	04:24:19.4	598.9	g	Sloan	4	1 x 1
188327	wfssgc105	1:28:00.00	-00:00:00.1	J2000.00	1.157	179.7	04:39:05.5	599.5	g	Sloan	1	1 x 1
188328	wfssgc105	1:28:00.00	-00:00:00.1	J2000.00	1.157	179.7	04:39:05.5	599.5	g	Sloan	5	1 x 1
188329	wfssgc105	1:28:00.00	-00:00:00.1	J2000.00	1.157	179.7	04:39:05.5	599.5	g	Sloan	3	1 x 1
188330	wfssgc105	1:28:00.00	-00:00:00.1	J2000.00	1.157	179.7	04:39:05.5	599.5	g	Sloan	4	1 x 1
188331	wfssgc106	1:30:00.00	-00:00:00.2	J2000.00	1.148	179.7	04:53:48.6	599.5	g	Sloan	1	1 x 1
188332	wfssgc106	1:30:00.00	-00:00:00.2	J2000.00	1.148	179.7	04:53:48.6	599.5	g	Sloan	5	1 x 1
188333	wfssgc106	1:30:00.00	-00:00:00.2	J2000.00	1.148	179.7	04:53:48.6	599.5	g	Sloan	3	1 x 1
188334	wfssgc106	1:30:00.00	-00:00:00.2	J2000.00	1.148	179.7	04:53:48.6	599.5	g	Sloan	4	1 x 1
188343	wfssgc110	1:38:00.00	+00:00:00.1	J2000.00	1.141	179.7	05:25:32.0	599.4	r	Sloan	1	1 x 1

188344	wfssgc110	1:38:00.00	+00:00:00.1	J2000.00	1.141	179.7	05:25:32.0	599.4	r	Sloan	5	1 x 1
188345	wfssgc110	1:38:00.00	+00:00:00.1	J2000.00	1.141	179.7	05:25:32.0	599.4	r	Sloan	3	1 x 1
188346	wfssgc110	1:38:00.00	+00:00:00.1	J2000.00	1.141	179.7	05:25:32.0	599.4	r	Sloan	4	1 x 1
188347	Bias frame	1:37:59.99	-00:00:00.2	J2000.00	1.141	179.7	05:38:35.9	0.0	r	Sloan	1	1 x 1
188348	Bias frame	1:37:59.99	-00:00:00.2	J2000.00	1.141	179.7	05:38:35.9	0.0	r	Sloan	5	1 x 1
188349	Bias frame	1:37:59.99	-00:00:00.2	J2000.00	1.141	179.7	05:38:35.9	0.0	r	Sloan	3	1 x 1
188350	Bias frame	1:37:59.99	-00:00:00.2	J2000.00	1.141	179.7	05:38:35.9	0.0	r	Sloan	4	1 x 1
188351	Bias frame	1:38:00.00	+00:00:00.0	J2000.00	1.141	179.7	05:41:28.9	0.0	r	Sloan	1	1 x 1
188352	Bias frame	1:38:00.00	+00:00:00.0	J2000.00	1.141	179.7	05:41:28.9	0.0	r	Sloan	5	1 x 1
188353	Bias frame	1:38:00.00	+00:00:00.0	J2000.00	1.141	179.7	05:41:28.9	0.0	r	Sloan	3	1 x 1
188354	Bias frame	1:38:00.00	+00:00:00.0	J2000.00	1.141	179.7	05:41:28.9	0.0	r	Sloan	4	1 x 1
188355	Bias frame	1:38:00.00	+00:00:00.1	J2000.00	1.142	179.7	05:44:21.5	0.0	r	Sloan	1	1 x 1
188356	Bias frame	1:38:00.00	+00:00:00.1	J2000.00	1.142	179.7	05:44:21.5	0.0	r	Sloan	5	1 x 1
188357	Bias frame	1:38:00.00	+00:00:00.1	J2000.00	1.142	179.7	05:44:21.5	0.0	r	Sloan	3	1 x 1
188358	Bias frame	1:38:00.00	+00:00:00.1	J2000.00	1.142	179.7	05:44:21.5	0.0	r	Sloan	4	1 x 1
188360	test	23:54:08.90	+59:28:18.0	B1950.00	1.276	179.7	06:05:36.6	18.1	r	Sloan	1	1 x 1
188361	test	23:54:08.90	+59:28:18.0	B1950.00	1.276	179.7	06:05:36.6	18.1	r	Sloan	5	1 x 1
188362	test	23:54:08.90	+59:28:18.0	B1950.00	1.276	179.7	06:05:36.6	18.1	r	Sloan	3	1 x 1
188363	test	23:54:08.90	+59:28:18.0	B1950.00	1.276	179.7	06:05:36.6	18.1	r	Sloan	4	1 x 1
188364	u flat	23:54:08.90	+59:28:18.0	B1950.00	1.283	179.7	06:09:45.9	5.1	U	RGO	1	1 x 1
188365	u flat	23:54:08.90	+59:28:18.0	B1950.00	1.283	179.7	06:09:45.9	5.1	U	RGO	5	1 x 1
188366	u flat	23:54:08.90	+59:28:18.0	B1950.00	1.283	179.7	06:09:45.9	5.1	U	RGO	3	1 x 1
188367	u flat	23:54:08.90	+59:28:18.0	B1950.00	1.283	179.7	06:09:45.9	5.1	U	RGO	4	1 x 1
188368	U flat	23:54:10.21	+59:28:27.9	B1950.00	1.290	179.7	06:13:20.6	10.2	U	RGO	1	1 x 1
188369	U flat	23:54:10.21	+59:28:27.9	B1950.00	1.290	179.7	06:13:20.6	10.2	U	RGO	5	1 x 1
188370	U flat	23:54:10.21	+59:28:27.9	B1950.00	1.290	179.7	06:13:20.6	10.2	U	RGO	3	1 x 1
188371	U flat	23:54:10.21	+59:28:27.9	B1950.00	1.290	179.7	06:13:20.6	10.2	U	RGO	4	1 x 1
188372	U flat	23:54:10.21	+59:28:07.9	B1950.00	1.296	179.7	06:16:57.5	5.1	U	RGO	1	1 x 1
188373	U flat	23:54:10.21	+59:28:07.9	B1950.00	1.296	179.7	06:16:57.5	5.1	U	RGO	5	1 x 1
188374	U flat	23:54:10.21	+59:28:07.9	B1950.00	1.296	179.7	06:16:57.5	5.1	U	RGO	3	1 x 1
188375	U flat	23:54:10.21	+59:28:07.9	B1950.00	1.296	179.7	06:16:57.5	5.1	U	RGO	4	1 x 1