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INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE:             INT
DATE:                  1999 JUL 20/21
INT TAPE NR:           INTD 4121
OBSERVER:              M. Irwin, R. Sharp
PROGRAMME:             INT WFS
PATT/CAT:              WFS09
TELESCOPE OPERATOR:    M. Irwin
SUPPORT ASTRONOMER:    N. Walton

FOCUS:                 Prime
INSTRUMENT:            WFC
FILTER WHEEL (PF):     U,KPB,g,r,i,Z
CAMERA (IDS):          -
COLLIMATOR (IDS):      -
COLL. FOCUS (IDS):     -
GRATING (IDS):         -
DETECTOR:              EEV
PIXELS:                4x4200x2148
PIXEL SIZE (microns): 13.5
WINDOW:                Xstart= , Xsize= , Ystart= , Ysize=
BINNING:               in X=1, in Y=1

WEATHER:               Good - Photometric
OUTSIDE TEMP (deg C):    13.5           (FIRST HALF)
OUTSIDE TEMP (deg C):    13.4            (SECOND HALF)
HUMIDITY (%):             7              (FIRST HALF)
HUMIDITY (%):            11              (SECOND HALF)
CLOUD COVER (%):          0              (FIRST HALF)
CLOUD COVER (%):          0              (SECOND HALF)
DUST (0 - 2):             0              (FIRST HALF)
DUST (0 - 2):             0              (SECOND HALF)
SEEING (arcsec):          0.8            (FIRST HALF)
SEEING (arcsec):          1.0            (SECOND HALF)
AV. SEEING (arcsec):      -
NO. SEEING MEASURES:      20

UTC    TELESCOPE                 CASELLA OUT   CASELLA IN    SEEING
       AZ   ZD  Focus  TubeTemp  Temp   Humid  Temp   Humid  Det./TV  Comments

DARK HOURS:            07:14
DOME OPEN (UTC):       18:50
MOON PHASE (D/G/B):        G
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:

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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys	Channel	Binning	Comments
181113	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	13:19:57.2	0.0	U	RGO	1	1 x 1	
181114	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	13:19:57.2	0.0	U	RGO	5	1 x 1	
181115	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	13:19:57.2	0.0	U	RGO	3	1 x 1	
181116	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	13:19:57.2	0.0	U	RGO	4	1 x 1	

181117	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:43:07.6	0.0	U	RGO	1	1 x 1
181118	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:43:07.6	0.0	U	RGO	5	1 x 1
181119	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:43:07.6	0.0	U	RGO	3	1 x 1
181120	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:43:07.6	0.0	U	RGO	4	1 x 1
181121	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:48:10.5	0.0	U	RGO	1	1 x 1
181122	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:48:10.5	0.0	U	RGO	5	1 x 1
181123	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:48:10.5	0.0	U	RGO	3	1 x 1
181124	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:48:10.5	0.0	U	RGO	4	1 x 1
181125	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:55:53.8	0.0	U	RGO	1	1 x 1
181126	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:55:53.8	0.0	U	RGO	5	1 x 1
181127	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:55:53.8	0.0	U	RGO	3	1 x 1
181128	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:55:53.8	0.0	U	RGO	4	1 x 1
181129	Flat field	14:30:00.00	+40:00:00.0	J2000.00	1.030	179.7	20:28:30.3	2.5	U	RGO	1	1 x 1
181130	Flat field	14:30:00.00	+40:00:00.0	J2000.00	1.030	179.7	20:28:30.3	2.5	U	RGO	5	1 x 1
181131	Flat field	14:30:00.00	+40:00:00.0	J2000.00	1.030	179.7	20:28:30.3	2.5	U	RGO	3	1 x 1
181132	Flat field	14:30:00.00	+40:00:00.0	J2000.00	1.030	179.7	20:28:30.3	2.5	U	RGO	4	1 x 1
181133	Flat field	14:30:05.22	+39:59:59.9	J2000.00	1.032	179.7	20:31:45.6	5.1	U	RGO	1	1 x 1
181134	Flat field	14:30:05.22	+39:59:59.9	J2000.00	1.032	179.7	20:31:45.6	5.1	U	RGO	5	1 x 1
181135	Flat field	14:30:05.22	+39:59:59.9	J2000.00	1.032	179.7	20:31:45.6	5.1	U	RGO	3	1 x 1
181136	Flat field	14:30:05.22	+39:59:59.9	J2000.00	1.032	179.7	20:31:45.6	5.1	U	RGO	4	1 x 1
181137	Flat field	14:30:05.22	+40:00:30.0	J2000.00	1.034	179.7	20:34:48.6	16.8	U	RGO	1	1 x 1
181138	Flat field	14:30:05.22	+40:00:30.0	J2000.00	1.034	179.7	20:34:48.6	16.8	U	RGO	5	1 x 1
181139	Flat field	14:30:05.22	+40:00:30.0	J2000.00	1.034	179.7	20:34:48.6	16.8	U	RGO	3	1 x 1
181140	Flat field	14:30:05.22	+40:00:30.0	J2000.00	1.034	179.7	20:34:48.6	16.8	U	RGO	4	1 x 1
181141	Flat field	14:30:05.22	+40:00:59.9	J2000.00	1.036	179.7	20:38:26.7	3.8	g	Sloan	1	1 x 1
181142	Flat field	14:30:05.22	+40:00:59.9	J2000.00	1.036	179.7	20:38:26.7	3.8	g	Sloan	5	1 x 1
181143	Flat field	14:30:05.22	+40:00:59.9	J2000.00	1.036	179.7	20:38:26.7	3.8	g	Sloan	3	1 x 1
181144	Flat field	14:30:05.22	+40:00:59.9	J2000.00	1.036	179.7	20:38:26.7	3.8	g	Sloan	4	1 x 1
181145	Flat field	14:30:05.21	+40:00:00.0	J2000.00	1.038	179.7	20:41:26.9	13.9	g	Sloan	1	1 x 1
181146	Flat field	14:30:05.21	+40:00:00.0	J2000.00	1.038	179.7	20:41:26.9	13.9	g	Sloan	5	1 x 1
181147	Flat field	14:30:05.21	+40:00:00.0	J2000.00	1.038	179.7	20:41:26.9	13.9	g	Sloan	3	1 x 1
181148	Flat field	14:30:05.21	+40:00:00.0	J2000.00	1.038	179.7	20:41:26.9	13.9	g	Sloan	4	1 x 1
181149	Flat field	14:30:00.00	+39:59:59.9	J2000.00	1.041	179.7	20:44:59.9	29.6	r	Sloan	1	1 x 1
181150	Flat field	14:30:00.00	+39:59:59.9	J2000.00	1.041	179.7	20:44:59.9	29.6	r	Sloan	5	1 x 1
181151	Flat field	14:30:00.00	+39:59:59.9	J2000.00	1.041	179.7	20:44:59.9	29.6	r	Sloan	3	1 x 1
181152	Flat field	14:30:00.00	+39:59:59.9	J2000.00	1.041	179.7	20:44:59.9	29.6	r	Sloan	4	1 x 1
181153	Focus run	15:39:19.00	-00:14:14.0	J2000.00	1.143	179.7	20:58:12.6	9.6	r	Sloan	1	1 x 1
181154	Focus run	15:39:19.00	-00:14:14.0	J2000.00	1.143	179.7	20:58:12.6	9.6	r	Sloan	5	1 x 1
181155	Focus run	15:39:19.00	-00:14:14.0	J2000.00	1.143	179.7	20:58:12.6	9.6	r	Sloan	3	1 x 1
181156	Focus run	15:39:19.00	-00:14:14.0	J2000.00	1.143	179.7	20:58:12.6	9.6	r	Sloan	4	1 x 1
181157	Focus run	15:39:19.00	-00:12:59.0	J2000.00	1.143	179.7	21:05:22.2	10.1	i	Sloan	1	1 x 1
181158	Focus run	15:39:19.00	-00:12:59.0	J2000.00	1.143	179.7	21:05:22.2	10.1	i	Sloan	5	1 x 1
181159	Focus run	15:39:19.00	-00:12:59.0	J2000.00	1.143	179.7	21:05:22.2	10.1	i	Sloan	3	1 x 1
181160	Focus run	15:39:19.00	-00:12:59.0	J2000.00	1.143	179.7	21:05:22.2	10.1	i	Sloan	4	1 x 1
181161	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.145	179.7	21:11:48.9	30.1	U	RGO	1	1 x 1
181162	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.145	179.7	21:11:48.9	30.1	U	RGO	5	1 x 1
181163	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.145	179.7	21:11:48.9	30.1	U	RGO	3	1 x 1
181164	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.145	179.7	21:11:48.9	30.1	U	RGO	4	1 x 1
181165	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.147	179.7	21:16:11.6	9.7	g	Sloan	1	1 x 1
181166	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.147	179.7	21:16:11.6	9.7	g	Sloan	5	1 x 1
181167	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.147	179.7	21:16:11.6	9.7	g	Sloan	3	1 x 1
181168	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.147	179.7	21:16:11.6	9.7	g	Sloan	4	1 x 1
181169	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.148	179.7	21:19:23.4	10.1	r	Sloan	1	1 x 1
181170	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.148	179.7	21:19:23.4	10.1	r	Sloan	5	1 x 1
181171	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.148	179.7	21:19:23.4	10.1	r	Sloan	3	1 x 1
181172	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.148	179.7	21:19:23.4	10.1	r	Sloan	4	1 x 1
181177	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.151	179.7	21:25:25.2	10.1	i	Sloan	1	1 x 1
181178	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.151	179.7	21:25:25.2	10.1	i	Sloan	5	1 x 1
181179	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.151	179.7	21:25:25.2	10.1	i	Sloan	3	1 x 1
181180	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.151	179.7	21:25:25.2	10.1	i	Sloan	4	1 x 1
181181	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.154	179.7	21:29:04.3	10.1	z	Gunn	1	1 x 1
181182	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.154	179.7	21:29:04.3	10.1	z	Gunn	5	1 x 1

181183	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.154	179.7	21:29:04.3	10.1	z	Gunn	3	1 x 1	
181184	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.154	179.7	21:29:04.3	10.1	z	Gunn	4	1 x 1	
181185	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.157	179.7	21:33:18.6	10.1	r	Sloan	1	1 x 1	
181186	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.157	179.7	21:33:18.6	10.1	r	Sloan	5	1 x 1	
181187	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.157	179.7	21:33:18.6	10.1	r	Sloan	3	1 x 1	
181188	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.157	179.7	21:33:18.6	10.1	r	Sloan	4	1 x 1	
181193	wfsj1610+5430_039	16:15:25.30	+53:50:00.0	J2000.00	1.105	179.7	21:42:22.9	599.6	z	Gunn	1	1 x 1	
181194	wfsj1610+5430_039	16:15:25.30	+53:50:00.0	J2000.00	1.105	179.7	21:42:22.9	599.6	z	Gunn	5	1 x 1	
181195	wfsj1610+5430_039	16:15:25.30	+53:50:00.0	J2000.00	1.105	179.7	21:42:22.9	599.6	z	Gunn	3	1 x 1	
181196	wfsj1610+5430_039	16:15:25.30	+53:50:00.0	J2000.00	1.105	179.7	21:42:22.9	599.6	z	Gunn	4	1 x 1	
181197	wfsj1610+5430_039	16:15:25.29	+53:50:00.0	J2000.00	1.108	179.7	21:55:31.4	599.4	r	Sloan	1	1 x 1	
181198	wfsj1610+5430_039	16:15:25.29	+53:50:00.0	J2000.00	1.108	179.7	21:55:31.4	599.4	r	Sloan	5	1 x 1	
181199	wfsj1610+5430_039	16:15:25.29	+53:50:00.0	J2000.00	1.108	179.7	21:55:31.4	599.4	r	Sloan	3	1 x 1	
181200	wfsj1610+5430_039	16:15:25.29	+53:50:00.0	J2000.00	1.108	179.7	21:55:31.4	599.4	r	Sloan	4	1 x 1	
181201	wfsj1610+5430_039	16:15:25.29	+53:49:59.9	J2000.00	1.113	179.7	22:08:41.6	599.0	i	Sloan	1	1 x 1	
181202	wfsj1610+5430_039	16:15:25.29	+53:49:59.9	J2000.00	1.113	179.7	22:08:41.6	599.0	i	Sloan	5	1 x 1	
181203	wfsj1610+5430_039	16:15:25.29	+53:49:59.9	J2000.00	1.113	179.7	22:08:41.6	599.0	i	Sloan	3	1 x 1	
181204	wfsj1610+5430_039	16:15:25.29	+53:49:59.9	J2000.00	1.113	179.7	22:08:41.6	599.0	i	Sloan	4	1 x 1	
181205	wfsj1610+5430_048	16:19:02.20	+53:50:00.0	J2000.00	1.120	179.7	22:23:59.4	599.6	z	Gunn	1	1 x 1	
181206	wfsj1610+5430_048	16:19:02.20	+53:50:00.0	J2000.00	1.120	179.7	22:23:59.4	599.6	z	Gunn	5	1 x 1	
181207	wfsj1610+5430_048	16:19:02.20	+53:50:00.0	J2000.00	1.120	179.7	22:23:59.4	599.6	z	Gunn	3	1 x 1	
181208	wfsj1610+5430_048	16:19:02.20	+53:50:00.0	J2000.00	1.120	179.7	22:23:59.4	599.6	z	Gunn	4	1 x 1	
181209	wfsj1610+5430_048	16:19:02.20	+53:49:59.9	J2000.00	1.129	179.7	22:37:06.7	599.4	r	Sloan	1	1 x 1	
181210	wfsj1610+5430_048	16:19:02.20	+53:49:59.9	J2000.00	1.129	179.7	22:37:06.7	599.4	r	Sloan	5	1 x 1	
181211	wfsj1610+5430_048	16:19:02.20	+53:49:59.9	J2000.00	1.129	179.7	22:37:06.7	599.4	r	Sloan	3	1 x 1	
181212	wfsj1610+5430_048	16:19:02.20	+53:49:59.9	J2000.00	1.129	179.7	22:37:06.7	599.4	r	Sloan	4	1 x 1	
181213	wfsj1610+5430_048	16:19:02.19	+53:49:59.9	J2000.00	1.141	179.7	22:50:16.3	599.4	i	Sloan	1	1 x 1	
181214	wfsj1610+5430_048	16:19:02.19	+53:49:59.9	J2000.00	1.141	179.7	22:50:16.3	599.4	i	Sloan	5	1 x 1	
181215	wfsj1610+5430_048	16:19:02.19	+53:49:59.9	J2000.00	1.141	179.7	22:50:16.3	599.4	i	Sloan	3	1 x 1	
181216	wfsj1610+5430_048	16:19:02.19	+53:49:59.9	J2000.00	1.141	179.7	22:50:16.3	599.4	i	Sloan	4	1 x 1	
181217	wfsj1610+5430_053	16:19:24.99	+55:30:00.0	J2000.00	1.173	179.7	23:06:04.4	599.4	z	Gunn	1	1 x 1	
181218	wfsj1610+5430_053	16:19:24.99	+55:30:00.0	J2000.00	1.173	179.7	23:06:04.4	599.4	z	Gunn	5	1 x 1	
181219	wfsj1610+5430_053	16:19:24.99	+55:30:00.0	J2000.00	1.173	179.7	23:06:04.4	599.4	z	Gunn	3	1 x 1	
181220	wfsj1610+5430_053	16:19:24.99	+55:30:00.0	J2000.00	1.173	179.7	23:06:04.4	599.4	z	Gunn	4	1 x 1	
181221	wfsj1610+5430_053	16:19:25.00	+55:29:59.9	J2000.00	1.189	179.7	23:19:11.6	599.1	r	Sloan	1	1 x 1	
181222	wfsj1610+5430_053	16:19:25.00	+55:29:59.9	J2000.00	1.189	179.7	23:19:11.6	599.1	r	Sloan	5	1 x 1	
181223	wfsj1610+5430_053	16:19:25.00	+55:29:59.9	J2000.00	1.189	179.7	23:19:11.6	599.1	r	Sloan	3	1 x 1	
181224	wfsj1610+5430_053	16:19:25.00	+55:29:59.9	J2000.00	1.189	179.7	23:19:11.6	599.1	r	Sloan	4	1 x 1	
181225	wfsj1610+5430_053	16:19:24.99	+55:30:00.0	J2000.00	1.209	179.7	23:32:22.6	599.5	i	Sloan	1	1 x 1	
181226	wfsj1610+5430_053	16:19:24.99	+55:30:00.0	J2000.00	1.209	179.7	23:32:22.6	599.5	i	Sloan	5	1 x 1	
181227	wfsj1610+5430_053	16:19:24.99	+55:30:00.0	J2000.00	1.209	179.7	23:32:22.6	599.5	i	Sloan	3	1 x 1	
181228	wfsj1610+5430_053	16:19:24.99	+55:30:00.0	J2000.00	1.209	179.7	23:32:22.6	599.5	i	Sloan	4	1 x 1	
181229	wfsj1610+5430_044	16:15:38.99	+55:29:59.9	J2000.00	1.241	179.7	23:47:19.4	599.5	z	Gunn	1	1 x 1	
181230	wfsj1610+5430_044	16:15:38.99	+55:29:59.9	J2000.00	1.241	179.7	23:47:19.4	599.5	z	Gunn	5	1 x 1	
181231	wfsj1610+5430_044	16:15:38.99	+55:29:59.9	J2000.00	1.241	179.7	23:47:19.4	599.5	z	Gunn	3	1 x 1	
181232	wfsj1610+5430_044	16:15:38.99	+55:29:59.9	J2000.00	1.241	179.7	23:47:19.4	599.5	z	Gunn	4	1 x 1	
181233	wfsj1610+5430_044	16:15:38.99	+55:30:00.0	J2000.00	1.268	179.7	00:00:27.6	599.5	r	Sloan	1	1 x 1	Focus
181234	wfsj1610+5430_044	16:15:38.99	+55:30:00.0	J2000.00	1.268	179.7	00:00:27.6	599.5	r	Sloan	5	1 x 1	oscillating
181235	wfsj1610+5430_044	16:15:38.99	+55:30:00.0	J2000.00	1.268	179.7	00:00:27.6	599.5	r	Sloan	3	1 x 1	
181236	wfsj1610+5430_044	16:15:38.99	+55:30:00.0	J2000.00	1.268	179.7	00:00:27.6	599.5	r	Sloan	4	1 x 1	
181237	wfsj1610+5430_044	16:15:38.99	+55:29:59.9	J2000.00	1.298	179.7	00:13:37.6	599.6	i	Sloan	1	1 x 1	
181238	wfsj1610+5430_044	16:15:38.99	+55:29:59.9	J2000.00	1.298	179.7	00:13:37.6	599.6	i	Sloan	5	1 x 1	
181239	wfsj1610+5430_044	16:15:38.99	+55:29:59.9	J2000.00	1.298	179.7	00:13:37.6	599.6	i	Sloan	3	1 x 1	
181240	wfsj1610+5430_044	16:15:38.99	+55:29:59.9	J2000.00	1.298	179.7	00:13:37.6	599.6	i	Sloan	4	1 x 1	
181241	wfsj1610+5430_035	16:11:52.99	+55:29:59.9	J2000.00	1.346	179.7	00:28:24.4	599.4	z	Gunn	1	1 x 1	
181242	wfsj1610+5430_035	16:11:52.99	+55:29:59.9	J2000.00	1.346	179.7	00:28:24.4	599.4	z	Gunn	5	1 x 1	
181243	wfsj1610+5430_035	16:11:52.99	+55:29:59.9	J2000.00	1.346	179.7	00:28:24.4	599.4	z	Gunn	3	1 x 1	
181244	wfsj1610+5430_035	16:11:52.99	+55:29:59.9	J2000.00	1.346	179.7	00:28:24.4	599.4	z	Gunn	4	1 x 1	
181245	wfsj1610+5430_035	16:11:52.99	+55:30:00.0	J2000.00	1.385	179.7	00:41:32.4	599.5	r	Sloan	1	1 x 1	
181246	wfsj1610+5430_035	16:11:52.99	+55:30:00.0	J2000.00	1.385	179.7	00:41:32.4	599.5	r	Sloan	5	1 x 1	
181247	wfsj1610+5430_035	16:11:52.99	+55:30:00.0	J2000.00	1.385	179.7	00:41:32.4	599.5	r	Sloan	3	1 x 1	
181248	wfsj1610+5430_035	16:11:52.99	+55:30:00.0	J2000.00	1.385	179.7	00:41:32.4	599.5	r	Sloan	4	1 x 1	

181249	wfsj1610+5430_035	16:11:53.00	+55:30:00.0	J2000.00	1.429	179.7	00:54:40.5	599.6	i	Sloan	1	1 x 1	
181250	wfsj1610+5430_035	16:11:53.00	+55:30:00.0	J2000.00	1.429	179.7	00:54:40.5	599.6	i	Sloan	5	1 x 1	
181251	wfsj1610+5430_035	16:11:53.00	+55:30:00.0	J2000.00	1.429	179.7	00:54:40.5	599.6	i	Sloan	3	1 x 1	
181252	wfsj1610+5430_035	16:11:53.00	+55:30:00.0	J2000.00	1.429	179.7	00:54:40.5	599.6	i	Sloan	4	1 x 1	
181253	sa113-163 U	21:42:35.00	+00:16:46.2	J2000.00	1.284	179.7	01:09:23.0	30.0	U	RGO	1	1 x 1	
181254	sa113-163 U	21:42:35.00	+00:16:46.2	J2000.00	1.284	179.7	01:09:23.0	30.0	U	RGO	5	1 x 1	
181255	sa113-163 U	21:42:35.00	+00:16:46.2	J2000.00	1.284	179.7	01:09:23.0	30.0	U	RGO	3	1 x 1	
181256	sa113-163 U	21:42:35.00	+00:16:46.2	J2000.00	1.284	179.7	01:09:23.0	30.0	U	RGO	4	1 x 1	
181257	sa113-163 g	21:42:35.00	+00:16:46.0	J2000.00	1.274	179.7	01:13:02.5	10.1	g	Sloan	1	1 x 1	
181258	sa113-163 g	21:42:35.00	+00:16:46.0	J2000.00	1.274	179.7	01:13:02.5	10.1	g	Sloan	5	1 x 1	
181259	sa113-163 g	21:42:35.00	+00:16:46.0	J2000.00	1.274	179.7	01:13:02.5	10.1	g	Sloan	3	1 x 1	
181260	sa113-163 g	21:42:35.00	+00:16:46.0	J2000.00	1.274	179.7	01:13:02.5	10.1	g	Sloan	4	1 x 1	
181261	sa113-163 i	21:42:35.00	+00:16:45.9	J2000.00	1.264	179.7	01:16:35.2	10.1	i	Sloan	1	1 x 1	
181262	sa113-163 i	21:42:35.00	+00:16:45.9	J2000.00	1.264	179.7	01:16:35.2	10.1	i	Sloan	5	1 x 1	
181263	sa113-163 i	21:42:35.00	+00:16:45.9	J2000.00	1.264	179.7	01:16:35.2	10.1	i	Sloan	3	1 x 1	
181264	sa113-163 i	21:42:35.00	+00:16:45.9	J2000.00	1.264	179.7	01:16:35.2	10.1	i	Sloan	4	1 x 1	
181265	sa113-163 r	21:42:35.00	+00:16:46.0	J2000.00	1.256	179.7	01:19:55.7	10.1	r	Sloan	1	1 x 1	
181266	sa113-163 r	21:42:35.00	+00:16:46.0	J2000.00	1.256	179.7	01:19:55.7	10.1	r	Sloan	5	1 x 1	
181267	sa113-163 r	21:42:35.00	+00:16:46.0	J2000.00	1.256	179.7	01:19:55.7	10.1	r	Sloan	3	1 x 1	
181268	sa113-163 r	21:42:35.00	+00:16:46.0	J2000.00	1.256	179.7	01:19:55.7	10.1	r	Sloan	4	1 x 1	
181269	sa113-163 Z	21:42:35.00	+00:16:46.0	J2000.00	1.247	179.7	01:23:16.4	10.1	z	Gunn	1	1 x 1	
181270	sa113-163 Z	21:42:35.00	+00:16:46.0	J2000.00	1.247	179.7	01:23:16.4	10.1	z	Gunn	5	1 x 1	
181271	sa113-163 Z	21:42:35.00	+00:16:46.0	J2000.00	1.247	179.7	01:23:16.4	10.1	z	Gunn	3	1 x 1	
181272	sa113-163 Z	21:42:35.00	+00:16:46.0	J2000.00	1.247	179.7	01:23:16.4	10.1	z	Gunn	4	1 x 1	
181273	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.413	179.7	01:28:48.9	599.5	z	Gunn	1	1 x 1	
181274	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.413	179.7	01:28:48.9	599.5	z	Gunn	5	1 x 1	
181275	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.413	179.7	01:28:48.9	599.5	z	Gunn	3	1 x 1	
181276	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.413	179.7	01:28:48.9	599.5	z	Gunn	4	1 x 1	
181277	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.357	179.7	01:41:55.4	599.5	r	Sloan	1	1 x 1	
181278	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.357	179.7	01:41:55.4	599.5	r	Sloan	5	1 x 1	
181279	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.357	179.7	01:41:55.4	599.5	r	Sloan	3	1 x 1	
181280	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.357	179.7	01:41:55.4	599.5	r	Sloan	4	1 x 1	
181281	wfsj2240+0000_043	22:43:11.99	+00:39:59.9	J2000.00	1.310	179.7	01:55:04.7	599.5	i	Sloan	1	1 x 1	
181282	wfsj2240+0000_043	22:43:11.99	+00:39:59.9	J2000.00	1.310	179.7	01:55:04.7	599.5	i	Sloan	5	1 x 1	
181283	wfsj2240+0000_043	22:43:11.99	+00:39:59.9	J2000.00	1.310	179.7	01:55:04.7	599.5	i	Sloan	3	1 x 1	
181284	wfsj2240+0000_043	22:43:11.99	+00:39:59.9	J2000.00	1.310	179.7	01:55:04.7	599.5	i	Sloan	4	1 x 1	
181285	wfsj2240+0000_043	22:43:11.99	+00:39:59.9	J2000.00	1.270	179.7	02:08:16.5	599.0	g	Sloan	1	1 x 1	
181286	wfsj2240+0000_043	22:43:11.99	+00:39:59.9	J2000.00	1.270	179.7	02:08:16.5	599.0	g	Sloan	5	1 x 1	
181287	wfsj2240+0000_043	22:43:11.99	+00:39:59.9	J2000.00	1.270	179.7	02:08:16.5	599.0	g	Sloan	3	1 x 1	
181288	wfsj2240+0000_043	22:43:11.99	+00:39:59.9	J2000.00	1.270	179.7	02:08:16.5	599.0	g	Sloan	4	1 x 1	
181289	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.236	179.7	02:21:31.7	599.6	U	RGO	1	1 x 1	Trailed
181290	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.236	179.7	02:21:31.7	599.6	U	RGO	5	1 x 1	
181291	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.236	179.7	02:21:31.7	599.6	U	RGO	3	1 x 1	
181292	wfsj2240+0000_043	22:43:12.00	+00:39:59.9	J2000.00	1.236	179.7	02:21:31.7	599.6	U	RGO	4	1 x 1	
181293	wfsj2240+0000_052	22:45:19.99	+00:40:00.1	J2000.00	1.208	179.7	02:37:00.4	599.5	z	Gunn	1	1 x 1	
181294	wfsj2240+0000_052	22:45:19.99	+00:40:00.1	J2000.00	1.208	179.7	02:37:00.4	599.5	z	Gunn	5	1 x 1	
181295	wfsj2240+0000_052	22:45:19.99	+00:40:00.1	J2000.00	1.208	179.7	02:37:00.4	599.5	z	Gunn	3	1 x 1	
181296	wfsj2240+0000_052	22:45:19.99	+00:40:00.1	J2000.00	1.208	179.7	02:37:00.4	599.5	z	Gunn	4	1 x 1	
181297	wfsj2240+0000_052	22:45:20.00	+00:40:00.0	J2000.00	1.185	179.7	02:50:08.9	599.4	r	Sloan	1	1 x 1	
181298	wfsj2240+0000_052	22:45:20.00	+00:40:00.0	J2000.00	1.185	179.7	02:50:08.9	599.4	r	Sloan	5	1 x 1	
181299	wfsj2240+0000_052	22:45:20.00	+00:40:00.0	J2000.00	1.185	179.7	02:50:08.9	599.4	r	Sloan	3	1 x 1	
181300	wfsj2240+0000_052	22:45:20.00	+00:40:00.0	J2000.00	1.185	179.7	02:50:08.9	599.4	r	Sloan	4	1 x 1	
181301	wfsj2240+0000_052	22:45:19.99	+00:39:59.9	J2000.00	1.166	179.7	03:03:18.2	599.5	i	Sloan	1	1 x 1	
181302	wfsj2240+0000_052	22:45:19.99	+00:39:59.9	J2000.00	1.166	179.7	03:03:18.2	599.5	i	Sloan	5	1 x 1	
181303	wfsj2240+0000_052	22:45:19.99	+00:39:59.9	J2000.00	1.166	179.7	03:03:18.2	599.5	i	Sloan	3	1 x 1	
181304	wfsj2240+0000_052	22:45:19.99	+00:39:59.9	J2000.00	1.166	179.7	03:03:18.2	599.5	i	Sloan	4	1 x 1	
181305	wfsj2240+0000_052	22:45:20.00	+00:40:00.0	J2000.00	1.152	179.7	03:16:30.4	599.5	g	Sloan	1	1 x 1	
181306	wfsj2240+0000_052	22:45:20.00	+00:40:00.0	J2000.00	1.152	179.7	03:16:30.4	599.5	g	Sloan	5	1 x 1	
181307	wfsj2240+0000_052	22:45:20.00	+00:40:00.0	J2000.00	1.152	179.7	03:16:30.4	599.5	g	Sloan	3	1 x 1	
181308	wfsj2240+0000_052	22:45:20.00	+00:40:00.0	J2000.00	1.152	179.7	03:16:30.4	599.5	g	Sloan	4	1 x 1	
181309	wfsj2240+0000_052	22:45:20.00	+00:39:59.9	J2000.00	1.142	179.7	03:29:56.5	598.1	U	RGO	1	1 x 1	
181310	wfsj2240+0000_052	22:45:20.00	+00:39:59.9	J2000.00	1.142	179.7	03:29:56.5	598.1	U	RGO	5	1 x 1	

181311	wfsj2240+0000_052	22:45:20.00	+00:39:59.9	J2000.00	1.142	179.7	03:29:56.5	598.1	U	RGO	3	1 x 1
181312	wfsj2240+0000_052	22:45:20.00	+00:39:59.9	J2000.00	1.142	179.7	03:29:56.5	598.1	U	RGO	4	1 x 1
181313	wfsj2240+0000_007	22:34:40.00	+00:40:00.0	J2000.00	1.133	179.7	03:44:47.3	0.0	z	Gunn	1	1 x 1
181314	wfsj2240+0000_007	22:34:40.00	+00:40:00.0	J2000.00	1.133	179.7	03:44:47.3	0.0	z	Gunn	5	1 x 1
181315	wfsj2240+0000_007	22:34:40.00	+00:40:00.0	J2000.00	1.133	179.7	03:44:47.3	0.0	z	Gunn	3	1 x 1
181316	wfsj2240+0000_007	22:34:40.00	+00:40:00.0	J2000.00	1.133	179.7	03:44:47.3	0.0	z	Gunn	4	1 x 1
181317	wfsj2240+0000_007	22:34:39.99	+00:40:00.0	J2000.00	1.135	179.7	03:57:53.5	0.0	r	Sloan	1	1 x 1
181318	wfsj2240+0000_007	22:34:39.99	+00:40:00.0	J2000.00	1.135	179.7	03:57:53.5	0.0	r	Sloan	5	1 x 1
181319	wfsj2240+0000_007	22:34:39.99	+00:40:00.0	J2000.00	1.135	179.7	03:57:53.5	0.0	r	Sloan	3	1 x 1
181320	wfsj2240+0000_007	22:34:39.99	+00:40:00.0	J2000.00	1.135	179.7	03:57:53.5	0.0	r	Sloan	4	1 x 1
181321	wfsj2240+0000_007	22:34:39.99	+00:39:59.9	J2000.00	1.139	179.7	04:11:02.6	0.0	i	Sloan	1	1 x 1
181322	wfsj2240+0000_007	22:34:39.99	+00:39:59.9	J2000.00	1.139	179.7	04:11:02.6	0.0	i	Sloan	5	1 x 1
181323	wfsj2240+0000_007	22:34:39.99	+00:39:59.9	J2000.00	1.139	179.7	04:11:02.6	0.0	i	Sloan	3	1 x 1
181324	wfsj2240+0000_007	22:34:39.99	+00:39:59.9	J2000.00	1.139	179.7	04:11:02.6	0.0	i	Sloan	4	1 x 1
181325	wfsj2240+0000_007	22:34:40.00	+00:40:00.0	J2000.00	1.148	179.7	04:24:12.9	0.0	g	Sloan	1	1 x 1
181326	wfsj2240+0000_007	22:34:40.00	+00:40:00.0	J2000.00	1.148	179.7	04:24:12.9	0.0	g	Sloan	5	1 x 1
181327	wfsj2240+0000_007	22:34:40.00	+00:40:00.0	J2000.00	1.148	179.7	04:24:12.9	0.0	g	Sloan	3	1 x 1
181328	wfsj2240+0000_007	22:34:40.00	+00:40:00.0	J2000.00	1.148	179.7	04:24:12.9	0.0	g	Sloan	4	1 x 1
181329	wfsj2240+0000_007	22:34:39.99	+00:40:00.0	J2000.00	1.161	179.7	04:37:39.6	0.0	U	RGO	1	1 x 1
181330	wfsj2240+0000_007	22:34:39.99	+00:40:00.0	J2000.00	1.161	179.7	04:37:39.6	0.0	U	RGO	5	1 x 1
181331	wfsj2240+0000_007	22:34:39.99	+00:40:00.0	J2000.00	1.161	179.7	04:37:39.6	0.0	U	RGO	3	1 x 1
181332	wfsj2240+0000_007	22:34:39.99	+00:40:00.0	J2000.00	1.161	179.7	04:37:39.6	0.0	U	RGO	4	1 x 1
181333	wfsj2240+0000_050	22:45:20.00	-00:00:00.0	J2000.00	1.173	179.7	04:51:37.9	0.0	r	Sloan	1	1 x 1
181334	wfsj2240+0000_050	22:45:20.00	-00:00:00.0	J2000.00	1.173	179.7	04:51:37.9	0.0	r	Sloan	5	1 x 1
181335	wfsj2240+0000_050	22:45:20.00	-00:00:00.0	J2000.00	1.173	179.7	04:51:37.9	0.0	r	Sloan	3	1 x 1
181336	wfsj2240+0000_050	22:45:20.00	-00:00:00.0	J2000.00	1.173	179.7	04:51:37.9	0.0	r	Sloan	4	1 x 1
181337	sa92-335 U	0:55:00.00	+00:44:13.0	J2000.00	1.182	179.7	05:05:29.8	0.0	U	RGO	1	1 x 1
181338	sa92-335 U	0:55:00.00	+00:44:13.0	J2000.00	1.182	179.7	05:05:29.8	0.0	U	RGO	5	1 x 1
181339	sa92-335 U	0:55:00.00	+00:44:13.0	J2000.00	1.182	179.7	05:05:29.8	0.0	U	RGO	3	1 x 1
181340	sa92-335 U	0:55:00.00	+00:44:13.0	J2000.00	1.182	179.7	05:05:29.8	0.0	U	RGO	4	1 x 1
181341	sa92-335 g	0:55:00.00	+00:44:13.0	J2000.00	1.176	179.7	05:09:09.2	0.0	g	Sloan	1	1 x 1
181342	sa92-335 g	0:55:00.00	+00:44:13.0	J2000.00	1.176	179.7	05:09:09.2	0.0	g	Sloan	5	1 x 1
181343	sa92-335 g	0:55:00.00	+00:44:13.0	J2000.00	1.176	179.7	05:09:09.2	0.0	g	Sloan	3	1 x 1
181344	sa92-335 g	0:55:00.00	+00:44:13.0	J2000.00	1.176	179.7	05:09:09.2	0.0	g	Sloan	4	1 x 1
181345	sa92-335 i	0:55:00.00	+00:44:13.0	J2000.00	1.172	179.7	05:12:27.5	0.0	i	Sloan	1	1 x 1
181346	sa92-335 i	0:55:00.00	+00:44:13.0	J2000.00	1.172	179.7	05:12:27.5	0.0	i	Sloan	5	1 x 1
181347	sa92-335 i	0:55:00.00	+00:44:13.0	J2000.00	1.172	179.7	05:12:27.5	0.0	i	Sloan	3	1 x 1
181348	sa92-335 i	0:55:00.00	+00:44:13.0	J2000.00	1.172	179.7	05:12:27.5	0.0	i	Sloan	4	1 x 1
181349	sa92-335 r	0:55:00.00	+00:44:13.0	J2000.00	1.167	179.7	05:15:45.7	0.0	r	Sloan	1	1 x 1
181350	sa92-335 r	0:55:00.00	+00:44:13.0	J2000.00	1.167	179.7	05:15:45.7	0.0	r	Sloan	5	1 x 1
181351	sa92-335 r	0:55:00.00	+00:44:13.0	J2000.00	1.167	179.7	05:15:45.7	0.0	r	Sloan	3	1 x 1
181352	sa92-335 r	0:55:00.00	+00:44:13.0	J2000.00	1.167	179.7	05:15:45.7	0.0	r	Sloan	4	1 x 1
181353	sa92-335 Z	0:55:00.00	+00:44:12.9	J2000.00	1.163	179.7	05:19:03.7	0.0	z	Gunn	1	1 x 1
181354	sa92-335 Z	0:55:00.00	+00:44:12.9	J2000.00	1.163	179.7	05:19:03.7	0.0	z	Gunn	5	1 x 1
181355	sa92-335 Z	0:55:00.00	+00:44:12.9	J2000.00	1.163	179.7	05:19:03.7	0.0	z	Gunn	3	1 x 1
181356	sa92-335 Z	0:55:00.00	+00:44:12.9	J2000.00	1.163	179.7	05:19:03.7	0.0	z	Gunn	4	1 x 1