```
INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE:            INT
DATE:                 1999 AUG 17/18
INT TAPE NR:          INTD 4155
OBSERVER:             J. Mendez
PROGRAMME:            WFS
PATT/CAT:             WFS 09 + M31
TELESCOPE OPERATOR:   V. Reyes
SUPPORT ASTRONOMER:   --

FOCUS:                Prime
INSTRUMENT:           WFC
FILTER WHEEL (PF):    -
CAMERA (IDS):         235
COLLIMATOR (IDS):     Ag-red
COLL. FOCUS (IDS):    211
GRATING (IDS):        R300V
DETECTOR:             EEV
PIXELS:               2148x4128
PIXEL SIZE (microns): 13.5
WINDOW:               Xstart=0, Xsize=0, Ystart=0, Ysize=0
BINNING:              in X=1, in Y=1

WEATHER:              Good
OUTSIDE TEMP (deg C):   15            (FIRST HALF)
OUTSIDE TEMP (deg C):   13            (SECOND HALF)
HUMIDITY (%):           30            (FIRST HALF)
HUMIDITY (%):           30            (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):         1.1          (SECOND HALF)
AV. SEEING (arcsec):     0.95
NO. SEEING MEASURES:     0

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

DARK HOURS:           07:32
DOME OPEN (UTC):      19:00
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.): 00:30
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:

30 minutes lost due to the filter wheel not moving

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Run no. Object name              RA         Dec.     Equinox    AM    PA     UT       Exp. T.   Filter      Psys Channel  Binning Comments

 189809 Bias frame            0:00:00.00 +00:00:00.0 J2000.00 1.000 179.7 18:54:36.9      0.0        B  Kitt Peak    1      1 x 1
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189810	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	18:54:36.9	0.0	B	Kitt Peak	5	1 x 1
189811	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	18:54:36.9	0.0	B	Kitt Peak	3	1 x 1
189812	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	18:54:36.9	0.0	B	Kitt Peak	4	1 x 1
189813	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:07:41.6	0.0	U	RGO	1	1 x 1
189814	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:07:41.6	0.0	U	RGO	5	1 x 1
189815	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:07:41.6	0.0	U	RGO	3	1 x 1
189816	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:07:41.6	0.0	U	RGO	4	1 x 1
189818	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:10:32.4	0.0	U	RGO	1	1 x 1
189819	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:10:32.4	0.0	U	RGO	5	1 x 1
189820	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:10:32.4	0.0	U	RGO	3	1 x 1
189821	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:10:32.4	0.0	U	RGO	4	1 x 1
189822	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:18:52.9	0.0	U	RGO	1	1 x 1
189823	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:18:52.9	0.0	U	RGO	5	1 x 1
189824	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:18:52.9	0.0	U	RGO	3	1 x 1
189825	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	179.7	19:18:52.9	0.0	U	RGO	4	1 x 1
189835	Flat field	13:04:33.00	+29:50:49.0	B1950.00	1.510	179.7	20:20:15.3	3.4	g	Sloan	1	1 x 1
189836	Flat field	13:04:33.00	+29:50:49.0	B1950.00	1.510	179.7	20:20:15.3	3.4	g	Sloan	5	1 x 1
189837	Flat field	13:04:33.00	+29:50:49.0	B1950.00	1.510	179.7	20:20:15.3	3.4	g	Sloan	3	1 x 1
189838	Flat field	13:04:33.00	+29:50:49.0	B1950.00	1.510	179.7	20:20:15.3	3.4	g	Sloan	4	1 x 1
189839	Flat field	13:04:32.23	+29:50:38.9	B1950.00	1.533	179.7	20:23:39.5	8.0	g	Sloan	1	1 x 1
189840	Flat field	13:04:32.23	+29:50:38.9	B1950.00	1.533	179.7	20:23:39.5	8.0	g	Sloan	5	1 x 1
189841	Flat field	13:04:32.23	+29:50:38.9	B1950.00	1.533	179.7	20:23:39.5	8.0	g	Sloan	3	1 x 1
189842	Flat field	13:04:32.23	+29:50:38.9	B1950.00	1.533	179.7	20:23:39.5	8.0	g	Sloan	4	1 x 1
189843	Flat field	13:04:33.76	+29:50:58.9	B1950.00	1.556	179.7	20:27:07.3	17.7	g	Sloan	1	1 x 1
189844	Flat field	13:04:33.76	+29:50:58.9	B1950.00	1.556	179.7	20:27:07.3	17.7	g	Sloan	5	1 x 1
189845	Flat field	13:04:33.76	+29:50:58.9	B1950.00	1.556	179.7	20:27:07.3	17.7	g	Sloan	3	1 x 1
189846	Flat field	13:04:33.76	+29:50:58.9	B1950.00	1.556	179.7	20:27:07.3	17.7	g	Sloan	4	1 x 1
189848	Flat field	13:04:33.76	+29:50:58.9	B1950.00	1.582	179.7	20:30:34.9	40.9	i	Sloan	1	1 x 1
189849	Flat field	13:04:33.76	+29:50:58.9	B1950.00	1.582	179.7	20:30:34.9	40.9	i	Sloan	5	1 x 1
189850	Flat field	13:04:33.76	+29:50:58.9	B1950.00	1.582	179.7	20:30:34.9	40.9	i	Sloan	3	1 x 1
189851	Flat field	13:04:33.76	+29:50:58.9	B1950.00	1.582	179.7	20:30:34.9	40.9	i	Sloan	4	1 x 1
189853	Flat field	13:04:34.53	+29:51:09.0	B1950.00	1.612	179.7	20:34:24.7	82.8	i	Sloan	1	1 x 1
189854	Flat field	13:04:34.53	+29:51:09.0	B1950.00	1.612	179.7	20:34:24.7	82.8	i	Sloan	5	1 x 1
189855	Flat field	13:04:34.53	+29:51:09.0	B1950.00	1.612	179.7	20:34:24.7	82.8	i	Sloan	3	1 x 1
189856	Flat field	13:04:34.53	+29:51:09.0	B1950.00	1.612	179.7	20:34:24.7	82.8	i	Sloan	4	1 x 1
189858	Flat field	13:04:32.23	+29:50:43.9	B1950.00	1.653	179.7	20:38:55.3	177.8	i	Sloan	1	1 x 1
189859	Flat field	13:04:32.23	+29:50:43.9	B1950.00	1.653	179.7	20:38:55.3	177.8	i	Sloan	5	1 x 1
189860	Flat field	13:04:32.23	+29:50:43.9	B1950.00	1.653	179.7	20:38:55.3	177.8	i	Sloan	3	1 x 1
189861	Flat field	13:04:32.23	+29:50:43.9	B1950.00	1.653	179.7	20:38:55.3	177.8	i	Sloan	4	1 x 1
189864	Focus run	15:39:18.99	-00:14:44.0	J2000.00	1.273	179.7	20:53:56.6	9.6	i	Sloan	1	1 x 1
189865	Focus run	15:39:18.99	-00:14:44.0	J2000.00	1.273	179.7	20:53:56.6	9.6	i	Sloan	5	1 x 1
189866	Focus run	15:39:18.99	-00:14:44.0	J2000.00	1.273	179.7	20:53:56.6	9.6	i	Sloan	3	1 x 1
189867	Focus run	15:39:18.99	-00:14:44.0	J2000.00	1.273	179.7	20:53:56.6	9.6	i	Sloan	4	1 x 1
189870	sa107-602 i	15:39:19.00	-00:13:59.0	J2000.00	1.290	179.7	20:57:56.7	10.1	i	Sloan	1	1 x 1
189871	sa107-602 i	15:39:19.00	-00:13:59.0	J2000.00	1.290	179.7	20:57:56.7	10.1	i	Sloan	5	1 x 1
189872	sa107-602 i	15:39:19.00	-00:13:59.0	J2000.00	1.290	179.7	20:57:56.7	10.1	i	Sloan	3	1 x 1
189873	sa107-602 i	15:39:19.00	-00:13:59.0	J2000.00	1.290	179.7	20:57:56.7	10.1	i	Sloan	4	1 x 1
189879	sa107-602 r	15:39:19.00	-00:13:58.9	J2000.00	1.329	179.7	21:10:20.2	10.1	r	Sloan	1	1 x 1
189880	sa107-602 r	15:39:19.00	-00:13:58.9	J2000.00	1.329	179.7	21:10:20.2	10.1	r	Sloan	5	1 x 1
189881	sa107-602 r	15:39:19.00	-00:13:58.9	J2000.00	1.329	179.7	21:10:20.2	10.1	r	Sloan	3	1 x 1
189882	sa107-602 r	15:39:19.00	-00:13:58.9	J2000.00	1.329	179.7	21:10:20.2	10.1	r	Sloan	4	1 x 1
189886	sa107-602 g	15:39:18.99	-00:13:59.0	J2000.00	1.341	179.7	21:13:37.0	10.1	g	Sloan	1	1 x 1
189887	sa107-602 g	15:39:18.99	-00:13:59.0	J2000.00	1.341	179.7	21:13:37.0	10.1	g	Sloan	5	1 x 1
189888	sa107-602 g	15:39:18.99	-00:13:59.0	J2000.00	1.341	179.7	21:13:37.0	10.1	g	Sloan	3	1 x 1
189889	sa107-602 g	15:39:18.99	-00:13:59.0	J2000.00	1.341	179.7	21:13:37.0	10.1	g	Sloan	4	1 x 1
189890	Bias						21:13:06.3	0.0				
189891	Focus run	15:39:19.00	-00:12:59.0	J2000.00	1.375	179.7	21:24:01.9	9.6	g	Sloan	1	1 x 1
189892	Focus run	15:39:19.00	-00:12:59.0	J2000.00	1.375	179.7	21:24:01.9	9.6	g	Sloan	5	1 x 1
189893	Focus run	15:39:19.00	-00:12:59.0	J2000.00	1.375	179.7	21:24:01.9	9.6	g	Sloan	3	1 x 1
189894	Focus run	15:39:19.00	-00:12:59.0	J2000.00	1.375	179.7	21:24:01.9	9.6	g	Sloan	4	1 x 1
189895	Bias						21:32:06.3	0.0				
189897	Dark frame						21:35:06.3	0.0				

189903	Dark frame						21:39:06.3	0.0				
189908	wfsj1610+5430_001	16:01:06.20	+53:10:00.0	J2000.00	1.236	179.7	21:49:19.5	599.5	r	Sloan	1	1 x 1
189909	wfsj1610+5430_001	16:01:06.20	+53:10:00.0	J2000.00	1.236	179.7	21:49:19.5	599.5	r	Sloan	5	1 x 1
189910	wfsj1610+5430_001	16:01:06.20	+53:10:00.0	J2000.00	1.236	179.7	21:49:19.5	599.5	r	Sloan	3	1 x 1
189911	wfsj1610+5430_001	16:01:06.20	+53:10:00.0	J2000.00	1.236	179.7	21:49:19.5	599.5	r	Sloan	4	1 x 1
189912	wfsj1610+5430_001	16:01:06.20	+53:09:59.9	J2000.00	1.265	179.7	22:02:24.1	599.5	i	Sloan	1	1 x 1
189913	wfsj1610+5430_001	16:01:06.20	+53:09:59.9	J2000.00	1.265	179.7	22:02:24.1	599.5	i	Sloan	5	1 x 1
189914	wfsj1610+5430_001	16:01:06.20	+53:09:59.9	J2000.00	1.265	179.7	22:02:24.1	599.5	i	Sloan	3	1 x 1
189915	wfsj1610+5430_001	16:01:06.20	+53:09:59.9	J2000.00	1.265	179.7	22:02:24.1	599.5	i	Sloan	4	1 x 1
189916	wfsj1610+5430_001	16:01:06.20	+53:09:59.9	J2000.00	1.297	179.7	22:15:31.3	599.5	g	Sloan	1	1 x 1
189917	wfsj1610+5430_001	16:01:06.20	+53:09:59.9	J2000.00	1.297	179.7	22:15:31.3	599.5	g	Sloan	5	1 x 1
189918	wfsj1610+5430_001	16:01:06.20	+53:09:59.9	J2000.00	1.297	179.7	22:15:31.3	599.5	g	Sloan	3	1 x 1
189919	wfsj1610+5430_001	16:01:06.20	+53:09:59.9	J2000.00	1.297	179.7	22:15:31.3	599.5	g	Sloan	4	1 x 1
189920	wfsj1637+4116_013	16:33:01.69	+40:55:59.9	J2000.00	1.210	179.7	22:34:18.5	599.5	i	Sloan	1	1 x 1
189921	wfsj1637+4116_013	16:33:01.69	+40:55:59.9	J2000.00	1.210	179.7	22:34:18.5	599.5	i	Sloan	5	1 x 1
189922	wfsj1637+4116_013	16:33:01.69	+40:55:59.9	J2000.00	1.210	179.7	22:34:18.5	599.5	i	Sloan	3	1 x 1
189923	wfsj1637+4116_013	16:33:01.69	+40:55:59.9	J2000.00	1.210	179.7	22:34:18.5	599.5	i	Sloan	4	1 x 1
189924	wfsj1637+4116_013	16:33:01.69	+40:55:59.9	J2000.00	1.248	179.7	22:47:25.4	599.4	g	Sloan	1	1 x 1
189925	wfsj1637+4116_013	16:33:01.69	+40:55:59.9	J2000.00	1.248	179.7	22:47:25.4	599.4	g	Sloan	5	1 x 1
189926	wfsj1637+4116_013	16:33:01.69	+40:55:59.9	J2000.00	1.248	179.7	22:47:25.4	599.4	g	Sloan	3	1 x 1
189927	wfsj1637+4116_013	16:33:01.69	+40:55:59.9	J2000.00	1.248	179.7	22:47:25.4	599.4	g	Sloan	4	1 x 1
189928	wfsj1637+4116_014	16:33:00.50	+41:16:00.0	J2000.00	1.297	179.7	23:02:06.4	599.4	i	Sloan	1	1 x 1
189929	wfsj1637+4116_014	16:33:00.50	+41:16:00.0	J2000.00	1.297	179.7	23:02:06.4	599.4	i	Sloan	5	1 x 1
189930	wfsj1637+4116_014	16:33:00.50	+41:16:00.0	J2000.00	1.297	179.7	23:02:06.4	599.4	i	Sloan	3	1 x 1
189931	wfsj1637+4116_014	16:33:00.50	+41:16:00.0	J2000.00	1.297	179.7	23:02:06.4	599.4	i	Sloan	4	1 x 1
189932	wfsj1637+4116_014	16:33:00.50	+41:16:00.0	J2000.00	1.346	179.7	23:15:12.3	599.3	g	Sloan	1	1 x 1
189933	wfsj1637+4116_014	16:33:00.50	+41:16:00.0	J2000.00	1.346	179.7	23:15:12.3	599.3	g	Sloan	5	1 x 1
189934	wfsj1637+4116_014	16:33:00.50	+41:16:00.0	J2000.00	1.346	179.7	23:15:12.3	599.3	g	Sloan	3	1 x 1
189935	wfsj1637+4116_014	16:33:00.50	+41:16:00.0	J2000.00	1.346	179.7	23:15:12.3	599.3	g	Sloan	4	1 x 1
189936	wfsj1637+4116_015	16:32:59.30	+41:36:00.0	J2000.00	1.409	179.7	23:29:54.8	599.6	i	Sloan	1	1 x 1
189937	wfsj1637+4116_015	16:32:59.30	+41:36:00.0	J2000.00	1.409	179.7	23:29:54.8	599.6	i	Sloan	5	1 x 1
189938	wfsj1637+4116_015	16:32:59.30	+41:36:00.0	J2000.00	1.409	179.7	23:29:54.8	599.6	i	Sloan	3	1 x 1
189939	wfsj1637+4116_015	16:32:59.30	+41:36:00.0	J2000.00	1.409	179.7	23:29:54.8	599.6	i	Sloan	4	1 x 1
189940	wfsj1637+4116_015	16:32:59.29	+41:35:59.9	J2000.00	1.472	179.7	23:43:01.0	599.5	g	Sloan	1	1 x 1
189941	wfsj1637+4116_015	16:32:59.29	+41:35:59.9	J2000.00	1.472	179.7	23:43:01.0	599.5	g	Sloan	5	1 x 1
189942	wfsj1637+4116_015	16:32:59.29	+41:35:59.9	J2000.00	1.472	179.7	23:43:01.0	599.5	g	Sloan	3	1 x 1
189943	wfsj1637+4116_015	16:32:59.29	+41:35:59.9	J2000.00	1.472	179.7	23:43:01.0	599.5	g	Sloan	4	1 x 1
189944	wfsj1637+4116_041	16:40:59.50	+41:15:59.9	J2000.00	1.516	179.7	23:58:51.9	598.0	g	Sloan	1	1 x 1
189945	wfsj1637+4116_041	16:40:59.50	+41:15:59.9	J2000.00	1.516	179.7	23:58:51.9	598.0	g	Sloan	5	1 x 1
189946	wfsj1637+4116_041	16:40:59.50	+41:15:59.9	J2000.00	1.516	179.7	23:58:51.9	598.0	g	Sloan	3	1 x 1
189947	wfsj1637+4116_041	16:40:59.50	+41:15:59.9	J2000.00	1.516	179.7	23:58:51.9	598.0	g	Sloan	4	1 x 1
189948	wfsj2240+0000_001	22:34:39.90	-01:19:59.9	J2000.00	1.282	179.7	00:15:14.6	599.1	i	Sloan	1	1 x 1
189949	wfsj2240+0000_001	22:34:39.90	-01:19:59.9	J2000.00	1.282	179.7	00:15:14.6	599.1	i	Sloan	5	1 x 1
189950	wfsj2240+0000_001	22:34:39.90	-01:19:59.9	J2000.00	1.282	179.7	00:15:14.6	599.1	i	Sloan	3	1 x 1
189951	wfsj2240+0000_001	22:34:39.90	-01:19:59.9	J2000.00	1.282	179.7	00:15:14.6	599.1	i	Sloan	4	1 x 1
189952	wfsj2240+0000_001	22:34:39.90	-01:19:59.8	J2000.00	1.250	179.7	00:28:21.7	599.4	g	Sloan	1	1 x 1
189953	wfsj2240+0000_001	22:34:39.90	-01:19:59.8	J2000.00	1.250	179.7	00:28:21.7	599.4	g	Sloan	5	1 x 1
189954	wfsj2240+0000_001	22:34:39.90	-01:19:59.8	J2000.00	1.250	179.7	00:28:21.7	599.4	g	Sloan	3	1 x 1
189955	wfsj2240+0000_001	22:34:39.90	-01:19:59.8	J2000.00	1.250	179.7	00:28:21.7	599.4	g	Sloan	4	1 x 1
189956	wfsj2240+0000_002	22:34:39.99	-00:59:59.9	J2000.00	1.215	179.7	00:43:04.7	599.5	i	Sloan	1	1 x 1
189957	wfsj2240+0000_002	22:34:39.99	-00:59:59.9	J2000.00	1.215	179.7	00:43:04.7	599.5	i	Sloan	5	1 x 1
189958	wfsj2240+0000_002	22:34:39.99	-00:59:59.9	J2000.00	1.215	179.7	00:43:04.7	599.5	i	Sloan	3	1 x 1
189959	wfsj2240+0000_002	22:34:39.99	-00:59:59.9	J2000.00	1.215	179.7	00:43:04.7	599.5	i	Sloan	4	1 x 1
189960	wfsj2240+0000_002	22:34:40.00	-01:00:00.0	J2000.00	1.194	179.7	00:56:10.7	599.3	g	Sloan	1	1 x 1
189961	wfsj2240+0000_002	22:34:40.00	-01:00:00.0	J2000.00	1.194	179.7	00:56:10.7	599.3	g	Sloan	5	1 x 1
189962	wfsj2240+0000_002	22:34:40.00	-01:00:00.0	J2000.00	1.194	179.7	00:56:10.7	599.3	g	Sloan	3	1 x 1
189963	wfsj2240+0000_002	22:34:40.00	-01:00:00.0	J2000.00	1.194	179.7	00:56:10.7	599.3	g	Sloan	4	1 x 1
189964	wfsj2240+0000_010	22:36:47.89	-01:19:59.9	J2000.00	1.182	179.7	01:11:11.5	599.5	i	Sloan	1	1 x 1
189965	wfsj2240+0000_010	22:36:47.89	-01:19:59.9	J2000.00	1.182	179.7	01:11:11.5	599.5	i	Sloan	5	1 x 1
189966	wfsj2240+0000_010	22:36:47.89	-01:19:59.9	J2000.00	1.182	179.7	01:11:11.5	599.5	i	Sloan	3	1 x 1
189967	wfsj2240+0000_010	22:36:47.89	-01:19:59.9	J2000.00	1.182	179.7	01:11:11.5	599.5	i	Sloan	4	1 x 1
189968	wfsj2240+0000_010	22:36:47.90	-01:19:59.8	J2000.00	1.169	179.7	01:24:17.3	599.5	g	Sloan	1	1 x 1

189969	wfsj2240+0000_010	22:36:47.90	-01:19:59.8	J2000.00	1.169	179.7	01:24:17.3	599.5	g	Sloan	5	1 x 1
189970	wfsj2240+0000_010	22:36:47.90	-01:19:59.8	J2000.00	1.169	179.7	01:24:17.3	599.5	g	Sloan	3	1 x 1
189971	wfsj2240+0000_010	22:36:47.90	-01:19:59.8	J2000.00	1.169	179.7	01:24:17.3	599.5	g	Sloan	4	1 x 1
189972	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.179	179.7	01:40:40.4	699.3	r	Sloan	1	1 x 1
189973	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.179	179.7	01:40:40.4	699.3	r	Sloan	5	1 x 1
189974	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.179	179.7	01:40:40.4	699.3	r	Sloan	3	1 x 1
189975	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.179	179.7	01:40:40.4	699.3	r	Sloan	4	1 x 1
189976	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.146	179.7	01:55:32.2	699.2	g	Sloan	1	1 x 1
189977	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.146	179.7	01:55:32.2	699.2	g	Sloan	5	1 x 1
189978	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.146	179.7	01:55:32.2	699.2	g	Sloan	3	1 x 1
189979	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.146	179.7	01:55:32.2	699.2	g	Sloan	4	1 x 1
189980	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.112	179.7	02:12:21.3	699.4	r	Sloan	1	1 x 1
189981	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.112	179.7	02:12:21.3	699.4	r	Sloan	5	1 x 1
189982	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.112	179.7	02:12:21.3	699.4	r	Sloan	3	1 x 1
189983	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.112	179.7	02:12:21.3	699.4	r	Sloan	4	1 x 1
189984	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.089	179.7	02:27:13.6	698.9	g	Sloan	1	1 x 1
189985	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.089	179.7	02:27:13.6	698.9	g	Sloan	5	1 x 1
189986	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.089	179.7	02:27:13.6	698.9	g	Sloan	3	1 x 1
189987	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.089	179.7	02:27:13.6	698.9	g	Sloan	4	1 x 1
189992	wfssgc018	22:33:59.99	-00:00:00.0	J2000.00	1.170	179.7	02:47:44.5	599.4	g	Sloan	1	1 x 1
189993	wfssgc018	22:33:59.99	-00:00:00.0	J2000.00	1.170	179.7	02:47:44.5	599.4	g	Sloan	5	1 x 1
189994	wfssgc018	22:33:59.99	-00:00:00.0	J2000.00	1.170	179.7	02:47:44.5	599.4	g	Sloan	3	1 x 1
189995	wfssgc018	22:33:59.99	-00:00:00.0	J2000.00	1.170	179.7	02:47:44.5	599.4	g	Sloan	4	1 x 1
189996	sa92-335 g	0:55:00.00	+00:44:12.9	J2000.00	1.205	179.7	03:01:53.2	10.1	g	Sloan	1	1 x 1
189997	sa92-335 g	0:55:00.00	+00:44:12.9	J2000.00	1.205	179.7	03:01:53.2	10.1	g	Sloan	5	1 x 1
189998	sa92-335 g	0:55:00.00	+00:44:12.9	J2000.00	1.205	179.7	03:01:53.2	10.1	g	Sloan	3	1 x 1
189999	sa92-335 g	0:55:00.00	+00:44:12.9	J2000.00	1.205	179.7	03:01:53.2	10.1	g	Sloan	4	1 x 1
190004	sa92-335 r	0:55:00.00	+00:44:13.0	J2000.00	1.196	179.7	03:06:52.6	9.6	r	Sloan	1	1 x 1
190005	sa92-335 r	0:55:00.00	+00:44:13.0	J2000.00	1.196	179.7	03:06:52.6	9.6	r	Sloan	5	1 x 1
190006	sa92-335 r	0:55:00.00	+00:44:13.0	J2000.00	1.196	179.7	03:06:52.6	9.6	r	Sloan	3	1 x 1
190007	sa92-335 r	0:55:00.00	+00:44:13.0	J2000.00	1.196	179.7	03:06:52.6	9.6	r	Sloan	4	1 x 1
190012	Focus run	0:55:00.00	+00:46:28.0	J2000.00	1.184	179.7	03:15:35.8	10.1	i	Sloan	1	1 x 1
190013	Focus run	0:55:00.00	+00:46:28.0	J2000.00	1.184	179.7	03:15:35.8	10.1	i	Sloan	5	1 x 1
190014	Focus run	0:55:00.00	+00:46:28.0	J2000.00	1.184	179.7	03:15:35.8	10.1	i	Sloan	3	1 x 1
190015	Focus run	0:55:00.00	+00:46:28.0	J2000.00	1.184	179.7	03:15:35.8	10.1	i	Sloan	4	1 x 1
190017	sa92-335 i	0:54:59.99	+00:48:42.9	J2000.00	1.170	179.7	03:22:48.5	10.1	i	Sloan	1	1 x 1
190018	sa92-335 i	0:54:59.99	+00:48:42.9	J2000.00	1.170	179.7	03:22:48.5	10.1	i	Sloan	5	1 x 1
190019	sa92-335 i	0:54:59.99	+00:48:42.9	J2000.00	1.170	179.7	03:22:48.5	10.1	i	Sloan	3	1 x 1
190020	sa92-335 i	0:54:59.99	+00:48:42.9	J2000.00	1.170	179.7	03:22:48.5	10.1	i	Sloan	4	1 x 1
190029	wfssgc116	1:50:00.00	-00:00:00.0	J2000.00	1.181	179.7	04:11:39.8	599.4	g	Sloan	1	1 x 1
190030	wfssgc116	1:50:00.00	-00:00:00.0	J2000.00	1.181	179.7	04:11:39.8	599.4	g	Sloan	5	1 x 1
190031	wfssgc116	1:50:00.00	-00:00:00.0	J2000.00	1.181	179.7	04:11:39.8	599.4	g	Sloan	3	1 x 1
190032	wfssgc116	1:50:00.00	-00:00:00.0	J2000.00	1.181	179.7	04:11:39.8	599.4	g	Sloan	4	1 x 1
190033	wfssgc117	1:51:59.99	-00:00:00.0	J2000.00	1.165	179.7	04:26:34.6	599.0	g	Sloan	1	1 x 1
190034	wfssgc117	1:51:59.99	-00:00:00.0	J2000.00	1.165	179.7	04:26:34.6	599.0	g	Sloan	5	1 x 1
190035	wfssgc117	1:51:59.99	-00:00:00.0	J2000.00	1.165	179.7	04:26:34.6	599.0	g	Sloan	3	1 x 1
190036	wfssgc117	1:51:59.99	-00:00:00.0	J2000.00	1.165	179.7	04:26:34.6	599.0	g	Sloan	4	1 x 1
190037	wfssgc118	1:54:00.00	-00:00:00.2	J2000.00	1.154	179.7	04:41:27.4	599.6	g	Sloan	1	1 x 1
190038	wfssgc118	1:54:00.00	-00:00:00.2	J2000.00	1.154	179.7	04:41:27.4	599.6	g	Sloan	5	1 x 1
190039	wfssgc118	1:54:00.00	-00:00:00.2	J2000.00	1.154	179.7	04:41:27.4	599.6	g	Sloan	3	1 x 1
190040	wfssgc118	1:54:00.00	-00:00:00.2	J2000.00	1.154	179.7	04:41:27.4	599.6	g	Sloan	4	1 x 1
190041	wfssgc119	1:55:59.99	-00:00:00.0	J2000.00	1.146	179.7	04:56:21.9	599.4	g	Sloan	1	1 x 1
190042	wfssgc119	1:55:59.99	-00:00:00.0	J2000.00	1.146	179.7	04:56:21.9	599.4	g	Sloan	5	1 x 1
190043	wfssgc119	1:55:59.99	-00:00:00.0	J2000.00	1.146	179.7	04:56:21.9	599.4	g	Sloan	3	1 x 1
190044	wfssgc119	1:55:59.99	-00:00:00.0	J2000.00	1.146	179.7	04:56:21.9	599.4	g	Sloan	4	1 x 1
190049	wfssgc120	1:57:59.99	-00:00:00.0	J2000.00	1.141	179.7	05:13:17.0	599.5	g	Sloan	1	1 x 1
190050	wfssgc120	1:57:59.99	-00:00:00.0	J2000.00	1.141	179.7	05:13:17.0	599.5	g	Sloan	5	1 x 1
190051	wfssgc120	1:57:59.99	-00:00:00.0	J2000.00	1.141	179.7	05:13:17.0	599.5	g	Sloan	3	1 x 1
190052	wfssgc120	1:57:59.99	-00:00:00.0	J2000.00	1.141	179.7	05:13:17.0	599.5	g	Sloan	4	1 x 1
190057	Bias frame	4:25:46.00	+54:09:03.0	B1950.00	1.219	179.7	05:44:24.0	0.0	U	RGO	1	1 x 1
190058	Bias frame	4:25:46.00	+54:09:03.0	B1950.00	1.219	179.7	05:44:24.0	0.0	U	RGO	5	1 x 1
190059	Bias frame	4:25:46.00	+54:09:03.0	B1950.00	1.219	179.7	05:44:24.0	0.0	U	RGO	3	1 x 1

190060	Bias frame	4:25:46.00	+54:09:03.0	B1950.00	1.219	179.7	05:44:24.0	0.0	U	RGO	4	1 x 1
190061	Bias frame	4:25:45.99	+54:09:03.0	B1950.00	1.214	179.7	05:47:26.7	0.0	U	RGO	1	1 x 1
190062	Bias frame	4:25:45.99	+54:09:03.0	B1950.00	1.214	179.7	05:47:26.7	0.0	U	RGO	5	1 x 1
190063	Bias frame	4:25:45.99	+54:09:03.0	B1950.00	1.214	179.7	05:47:26.7	0.0	U	RGO	3	1 x 1
190064	Bias frame	4:25:45.99	+54:09:03.0	B1950.00	1.214	179.7	05:47:26.7	0.0	U	RGO	4	1 x 1
190073	sky i	4:25:46.00	+54:09:03.0	B1950.00	1.193	179.7	05:58:35.5	175.9	i	Sloan	1	1 x 1
190074	sky i	4:25:46.00	+54:09:03.0	B1950.00	1.193	179.7	05:58:35.5	175.9	i	Sloan	5	1 x 1
190075	sky i	4:25:46.00	+54:09:03.0	B1950.00	1.193	179.7	05:58:35.5	175.9	i	Sloan	3	1 x 1
190076	sky i	4:25:46.00	+54:09:03.0	B1950.00	1.193	179.7	05:58:35.5	175.9	i	Sloan	4	1 x 1
190085	sky r	4:25:46.00	+54:09:02.9	B1950.00	1.184	179.7	06:05:37.6	49.5	r	Sloan	1	1 x 1
190086	sky r	4:25:46.00	+54:09:02.9	B1950.00	1.184	179.7	06:05:37.6	49.5	r	Sloan	5	1 x 1
190087	sky r	4:25:46.00	+54:09:02.9	B1950.00	1.184	179.7	06:05:37.6	49.5	r	Sloan	3	1 x 1
190088	sky r	4:25:46.00	+54:09:02.9	B1950.00	1.184	179.7	06:05:37.6	49.5	r	Sloan	4	1 x 1
190089	Flat field	2:12:53.56	+27:04:36.4	B1950.00	1.179	179.7	06:09:38.4	18.5	r	Sloan	1	1 x 1
190090	Flat field	2:12:53.56	+27:04:36.4	B1950.00	1.179	179.7	06:09:38.4	18.5	r	Sloan	5	1 x 1
190091	Flat field	2:12:53.56	+27:04:36.4	B1950.00	1.179	179.7	06:09:38.4	18.5	r	Sloan	3	1 x 1
190092	Flat field	2:12:53.56	+27:04:36.4	B1950.00	1.179	179.7	06:09:38.4	18.5	r	Sloan	4	1 x 1
190093	Flat field	4:25:44.86	+54:08:52.9	B1950.00	1.174	179.7	06:13:15.5	7.8	r	Sloan	1	1 x 1
190094	Flat field	4:25:44.86	+54:08:52.9	B1950.00	1.174	179.7	06:13:15.5	7.8	r	Sloan	5	1 x 1
190095	Flat field	4:25:44.86	+54:08:52.9	B1950.00	1.174	179.7	06:13:15.5	7.8	r	Sloan	3	1 x 1
190096	Flat field	4:25:44.86	+54:08:52.9	B1950.00	1.174	179.7	06:13:15.5	7.8	r	Sloan	4	1 x 1
190097	Flat field	4:25:43.72	+54:09:12.9	B1950.00	1.169	179.7	06:16:33.3	3.4	r	Sloan	1	1 x 1
190098	Flat field	4:25:43.72	+54:09:12.9	B1950.00	1.169	179.7	06:16:33.3	3.4	r	Sloan	5	1 x 1
190099	Flat field	4:25:43.72	+54:09:12.9	B1950.00	1.169	179.7	06:16:33.3	3.4	r	Sloan	3	1 x 1
190100	Flat field	4:25:43.72	+54:09:12.9	B1950.00	1.169	179.7	06:16:33.3	3.4	r	Sloan	4	1 x 1
190105	Bias frame	4:25:43.72	+54:09:12.9	B1950.00	1.160	179.7	06:24:10.1	0.0	U	RGO	1	1 x 1
190106	Bias frame	4:25:43.72	+54:09:12.9	B1950.00	1.160	179.7	06:24:10.1	0.0	U	RGO	5	1 x 1
190107	Bias frame	4:25:43.72	+54:09:12.9	B1950.00	1.160	179.7	06:24:10.1	0.0	U	RGO	3	1 x 1
190108	Bias frame	4:25:43.72	+54:09:12.9	B1950.00	1.160	179.7	06:24:10.1	0.0	U	RGO	4	1 x 1
190109	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	3.160	179.7	06:27:03.3	0.0	U	RGO	1	1 x 1
190110	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	3.160	179.7	06:27:03.3	0.0	U	RGO	5	1 x 1
190111	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	3.160	179.7	06:27:03.3	0.0	U	RGO	3	1 x 1
190112	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	3.160	179.7	06:27:03.3	0.0	U	RGO	4	1 x 1
190113	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	4.022	179.7	06:29:56.6	0.0	U	RGO	1	1 x 1
190114	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	4.022	179.7	06:29:56.6	0.0	U	RGO	5	1 x 1
190115	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	4.022	179.7	06:29:56.6	0.0	U	RGO	3	1 x 1
190116	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	4.022	179.7	06:29:56.6	0.0	U	RGO	4	1 x 1