INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:             INT
DATE:                  1999 Apr 11/12
INT TAPE NR:           INTD4018-19
OBSERVER:              J. Davies, A. Kambas, J. Haynes, R. Pain, D. Hardin
PROGRAMME:             WFS 09
PATT/CAT:              WFS 09
TELESCOPE OPERATOR:    -
SUPPORT ASTRONOMER:    -

FOCUS:                 PRIME
INSTRUMENT:            WFC
FILTER WHEEL (PF):     U,B,V,r,i,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:               Good
OUTSIDE TEMP (deg C):              (FIRST HALF)
OUTSIDE TEMP (deg C):              (SECOND HALF)
HUMIDITY (%):                      (FIRST HALF)
HUMIDITY (%):                      (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):                   (FIRST HALF)
SEEING (arcsec):                   (SECOND HALF)
AV. SEEING (arcsec):
NO. SEEING MEASURES:      -

UTC    TELESCOPE                CASELLA OUT   CASELLA IN    SEEING
       AZ   EL  Focus  TComp    Temp   Humid  Temp   Humid  Det./TV  Comments

DARK HOURS:            08:32
DOME OPEN (UTC):       20:00
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.): 00:00
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:




Run no. Object name              RA         Dec.     Equinox    AM    PA     UT       Exp. T.   Filter      Psys Channel  Binning Comments
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158928	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:05:36.1	0.0	B	Kitt Peak	1	1 x 1
158929	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:05:36.1	0.0	B	Kitt Peak	5	1 x 1
158930	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:05:36.1	0.0	B	Kitt Peak	3	1 x 1
158931	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:05:36.1	0.0	B	Kitt Peak	4	1 x 1
158932	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:08:41.4	0.0	B	Kitt Peak	1	1 x 1
158933	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:08:41.4	0.0	B	Kitt Peak	5	1 x 1
158934	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:08:41.4	0.0	B	Kitt Peak	3	1 x 1
158935	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:08:41.4	0.0	B	Kitt Peak	4	1 x 1
158936	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:12:21.4	0.0	B	Kitt Peak	1	1 x 1
158937	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:12:21.4	0.0	B	Kitt Peak	5	1 x 1
158938	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:12:21.4	0.0	B	Kitt Peak	3	1 x 1
158939	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:12:21.4	0.0	B	Kitt Peak	4	1 x 1
158940	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:16:53.0	0.0	B	Kitt Peak	1	1 x 1
158941	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:16:53.0	0.0	B	Kitt Peak	5	1 x 1
158942	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:16:53.0	0.0	B	Kitt Peak	3	1 x 1
158943	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:16:53.0	0.0	B	Kitt Peak	4	1 x 1
158944	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:20:11.6	0.0	B	Kitt Peak	1	1 x 1
158945	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:20:11.6	0.0	B	Kitt Peak	5	1 x 1
158946	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:20:11.6	0.0	B	Kitt Peak	3	1 x 1
158947	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:20:11.6	0.0	B	Kitt Peak	4	1 x 1
158948	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:23:12.2	0.0	B	Kitt Peak	1	1 x 1
158949	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:23:12.2	0.0	B	Kitt Peak	5	1 x 1
158950	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:23:12.2	0.0	B	Kitt Peak	3	1 x 1
158951	Bias frame	0:00:00.00	+00:00:00.0	A		4.332	180.0	16:23:12.2	0.0	B	Kitt Peak	4	1 x 1
158952	Bias frame	4:25:45.99	+54:09:02.9	B1950.00		1.417	180.0	19:51:10.7	0.0	r	SLOAN	1	1 x 1
158953	Bias frame	4:25:45.99	+54:09:02.9	B1950.00		1.417	180.0	19:51:10.7	0.0	r	SLOAN	5	1 x 1
158954	Bias frame	4:25:45.99	+54:09:02.9	B1950.00		1.417	180.0	19:51:10.7	0.0	r	SLOAN	3	1 x 1
158955	Bias frame	4:25:45.99	+54:09:02.9	B1950.00		1.417	180.0	19:51:10.7	0.0	r	SLOAN	4	1 x 1
158956	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.452	180.0	20:00:47.2	5.1	r	SLOAN	1	1 x 1
158957	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.452	180.0	20:00:47.2	5.1	r	SLOAN	5	1 x 1
158958	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.452	180.0	20:00:47.2	5.1	r	SLOAN	3	1 x 1
158959	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.452	180.0	20:00:47.2	5.1	r	SLOAN	4	1 x 1
158960	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.468	180.0	20:04:36.6	20.1	B	Kitt Peak	1	1 x 1 over exp
158961	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.468	180.0	20:04:36.6	20.1	B	Kitt Peak	5	1 x 1
158962	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.468	180.0	20:04:36.6	20.1	B	Kitt Peak	3	1 x 1
158963	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.468	180.0	20:04:36.6	20.1	B	Kitt Peak	4	1 x 1
158964	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.483	180.0	20:08:24.6	20.1	B	Kitt Peak	1	1 x 1
158965	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.483	180.0	20:08:24.6	20.1	B	Kitt Peak	5	1 x 1
158966	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.483	180.0	20:08:24.6	20.1	B	Kitt Peak	3	1 x 1
158967	Flat field	4:25:46.00	+54:09:03.0	B1950.00		1.483	180.0	20:08:24.6	20.1	B	Kitt Peak	4	1 x 1
158968	Flat field	4:25:46.00	+54:09:02.9	B1950.00		1.500	180.0	20:12:24.0	35.1	B	Kitt Peak	1	1 x 1
158969	Flat field	4:25:46.00	+54:09:02.9	B1950.00		1.500	180.0	20:12:24.0	35.1	B	Kitt Peak	5	1 x 1
158970	Flat field	4:25:46.00	+54:09:02.9	B1950.00		1.500	180.0	20:12:24.0	35.1	B	Kitt Peak	3	1 x 1
158971	Flat field	4:25:46.00	+54:09:02.9	B1950.00		1.500	180.0	20:12:24.0	35.1	B	Kitt Peak	4	1 x 1
158972	Flat field	4:25:45.99	+54:09:03.0	B1950.00		1.519	180.0	20:16:29.5	80.0	B	Kitt Peak	1	1 x 1
158973	Flat field	4:25:45.99	+54:09:03.0	B1950.00		1.519	180.0	20:16:29.5	80.0	B	Kitt Peak	5	1 x 1
158974	Flat field	4:25:45.99	+54:09:03.0	B1950.00		1.519	180.0	20:16:29.5	80.0	B	Kitt Peak	3	1 x 1
158975	Flat field	4:25:45.99	+54:09:03.0	B1950.00		1.519	180.0	20:16:29.5	80.0	B	Kitt Peak	4	1 x 1
158976	SS98	6:51:52.00	-00:20:15.9	J2000.00		1.365	180.0	20:56:47.5	20.1	B	Kitt Peak	1	1 x 1
158977	SS98	6:51:52.00	-00:20:15.9	J2000.00		1.365	180.0	20:56:47.5	20.1	B	Kitt Peak	5	1 x 1
158978	SS98	6:51:52.00	-00:20:15.9	J2000.00		1.365	180.0	20:56:47.5	20.1	B	Kitt Peak	3	1 x 1
158979	SS98	6:51:52.00	-00:20:15.9	J2000.00		1.365	180.0	20:56:47.5	20.1	B	Kitt Peak	4	1 x 1
158980	SS101	9:56:21.00	-00:27:19.0	J2000.00		1.171	180.0	21:01:14.4	20.1	B	Kitt Peak	1	1 x 1
158981	SS101	9:56:21.00	-00:27:19.0	J2000.00		1.171	180.0	21:01:14.4	20.1	B	Kitt Peak	5	1 x 1
158982	SS101	9:56:21.00	-00:27:19.0	J2000.00		1.171	180.0	21:01:14.4	20.1	B	Kitt Peak	3	1 x 1
158983	SS101	9:56:21.00	-00:27:19.0	J2000.00		1.171	180.0	21:01:14.4	20.1	B	Kitt Peak	4	1 x 1
158984	SS104	12:42:21.99	-00:33:08.9	J2000.00		1.879	180.0	21:05:44.5	20.1	B	Kitt Peak	1	1 x 1
158985	SS104	12:42:21.99	-00:33:08.9	J2000.00		1.879	180.0	21:05:44.5	20.1	B	Kitt Peak	5	1 x 1
158986	SS104	12:42:21.99	-00:33:08.9	J2000.00		1.879	180.0	21:05:44.5	20.1	B	Kitt Peak	3	1 x 1
158987	SS104	12:42:21.99	-00:33:08.9	J2000.00		1.879	180.0	21:05:44.5	20.1	B	Kitt Peak	4	1 x 1
158988	VIRGO295	12:39:56.09	+12:04:00.0	J2000.00		1.491	180.0	21:13:03.6	749.1	B	Kitt Peak	1	1 x 1
158989	VIRGO295	12:39:56.09	+12:04:00.0	J2000.00		1.491	180.0	21:13:03.6	749.1	B	Kitt Peak	5	1 x 1

158990	VIRGO295	12:39:56.09	+12:04:00.0	J2000.00	1.491	180.0	21:13:03.6	749.1	B	Kitt Peak	3	1 x 1	
158991	VIRGO295	12:39:56.09	+12:04:00.0	J2000.00	1.491	180.0	21:13:03.6	749.1	B	Kitt Peak	4	1 x 1	
158992	VIRGO296	12:42:02.90	+12:04:00.2	J2000.00	1.403	180.0	21:30:46.8	749.4	B	Kitt Peak	1	1 x 1	
158993	VIRGO296	12:42:02.90	+12:04:00.2	J2000.00	1.403	180.0	21:30:46.8	749.4	B	Kitt Peak	5	1 x 1	
158994	VIRGO296	12:42:02.90	+12:04:00.2	J2000.00	1.403	180.0	21:30:46.8	749.4	B	Kitt Peak	3	1 x 1	
158995	VIRGO296	12:42:02.90	+12:04:00.2	J2000.00	1.403	180.0	21:30:46.8	749.4	B	Kitt Peak	4	1 x 1	
158996	VIRGO297	12:44:09.70	+12:04:00.2	J2000.00	1.329	180.0	21:48:31.4	749.3	B	Kitt Peak	1	1 x 1	
158997	VIRGO297	12:44:09.70	+12:04:00.2	J2000.00	1.329	180.0	21:48:31.4	749.3	B	Kitt Peak	5	1 x 1	
158998	VIRGO297	12:44:09.70	+12:04:00.2	J2000.00	1.329	180.0	21:48:31.4	749.3	B	Kitt Peak	3	1 x 1	
158999	VIRGO297	12:44:09.70	+12:04:00.2	J2000.00	1.329	180.0	21:48:31.4	749.3	B	Kitt Peak	4	1 x 1	
159000	VIRGO298	12:46:16.50	+12:03:59.9	J2000.00	1.266	180.0	22:06:46.0	749.3	B	Kitt Peak	1	1 x 1	v bright star
159001	VIRGO298	12:46:16.50	+12:03:59.9	J2000.00	1.266	180.0	22:06:46.0	749.3	B	Kitt Peak	5	1 x 1	
159002	VIRGO298	12:46:16.50	+12:03:59.9	J2000.00	1.266	180.0	22:06:46.0	749.3	B	Kitt Peak	3	1 x 1	
159003	VIRGO298	12:46:16.50	+12:03:59.9	J2000.00	1.266	180.0	22:06:46.0	749.3	B	Kitt Peak	4	1 x 1	
159004	VIRGO299	12:48:23.30	+12:04:00.0	J2000.00	1.214	180.0	22:24:54.8	749.3	B	Kitt Peak	1	1 x 1	299-resid??
159005	VIRGO299	12:48:23.30	+12:04:00.0	J2000.00	1.214	180.0	22:24:54.8	749.3	B	Kitt Peak	5	1 x 1	
159006	VIRGO299	12:48:23.30	+12:04:00.0	J2000.00	1.214	180.0	22:24:54.8	749.3	B	Kitt Peak	3	1 x 1	
159007	VIRGO299	12:48:23.30	+12:04:00.0	J2000.00	1.214	180.0	22:24:54.8	749.3	B	Kitt Peak	4	1 x 1	
159008	VIRGO300	12:50:30.10	+12:04:00.0	J2000.00	1.169	180.0	22:43:27.3	749.4	B	Kitt Peak	1	1 x 1	
159009	VIRGO300	12:50:30.10	+12:04:00.0	J2000.00	1.169	180.0	22:43:27.3	749.4	B	Kitt Peak	5	1 x 1	
159010	VIRGO300	12:50:30.10	+12:04:00.0	J2000.00	1.169	180.0	22:43:27.3	749.4	B	Kitt Peak	3	1 x 1	
159011	VIRGO300	12:50:30.10	+12:04:00.0	J2000.00	1.169	180.0	22:43:27.3	749.4	B	Kitt Peak	4	1 x 1	
159012	VIRGO271	12:31:28.90	+11:44:00.0	J2000.00	1.098	180.0	23:03:04.8	748.9	B	Kitt Peak	1	1 x 1	
159013	VIRGO271	12:31:28.90	+11:44:00.0	J2000.00	1.098	180.0	23:03:04.8	748.9	B	Kitt Peak	5	1 x 1	
159014	VIRGO271	12:31:28.90	+11:44:00.0	J2000.00	1.098	180.0	23:03:04.8	748.9	B	Kitt Peak	3	1 x 1	
159015	VIRGO271	12:31:28.90	+11:44:00.0	J2000.00	1.098	180.0	23:03:04.8	748.9	B	Kitt Peak	4	1 x 1	
159016	VIRGO272	12:33:35.50	+11:43:59.9	J2000.00	1.076	180.0	23:22:37.4	749.3	B	Kitt Peak	1	1 x 1	
159017	VIRGO272	12:33:35.50	+11:43:59.9	J2000.00	1.076	180.0	23:22:37.4	749.3	B	Kitt Peak	5	1 x 1	
159018	VIRGO272	12:33:35.50	+11:43:59.9	J2000.00	1.076	180.0	23:22:37.4	749.3	B	Kitt Peak	3	1 x 1	
159019	VIRGO272	12:33:35.50	+11:43:59.9	J2000.00	1.076	180.0	23:22:37.4	749.3	B	Kitt Peak	4	1 x 1	
159020	VIRGO273	12:35:42.10	+11:43:59.8	J2000.00	1.061	180.0	23:41:06.0	749.3	B	Kitt Peak	1	1 x 1	
159021	VIRGO273	12:35:42.10	+11:43:59.8	J2000.00	1.061	180.0	23:41:06.0	749.3	B	Kitt Peak	5	1 x 1	
159022	VIRGO273	12:35:42.10	+11:43:59.8	J2000.00	1.061	180.0	23:41:06.0	749.3	B	Kitt Peak	3	1 x 1	
159023	VIRGO273	12:35:42.10	+11:43:59.8	J2000.00	1.061	180.0	23:41:06.0	749.3	B	Kitt Peak	4	1 x 1	
159024	VIRGO274	12:37:48.79	+11:43:59.9	J2000.00	1.051	180.0	23:59:20.5	749.2	B	Kitt Peak	1	1 x 1	
159025	VIRGO274	12:37:48.79	+11:43:59.9	J2000.00	1.051	180.0	23:59:20.5	749.2	B	Kitt Peak	5	1 x 1	
159026	VIRGO274	12:37:48.79	+11:43:59.9	J2000.00	1.051	180.0	23:59:20.5	749.2	B	Kitt Peak	3	1 x 1	
159027	VIRGO274	12:37:48.79	+11:43:59.9	J2000.00	1.051	180.0	23:59:20.5	749.2	B	Kitt Peak	4	1 x 1	
159028	VIRGO275	12:39:55.39	+11:43:59.8	J2000.00	1.046	180.0	00:17:37.5	749.3	B	Kitt Peak	1	1 x 1	
159029	VIRGO275	12:39:55.39	+11:43:59.8	J2000.00	1.046	180.0	00:17:37.5	749.3	B	Kitt Peak	5	1 x 1	
159030	VIRGO275	12:39:55.39	+11:43:59.8	J2000.00	1.046	180.0	00:17:37.5	749.3	B	Kitt Peak	3	1 x 1	
159031	VIRGO275	12:39:55.39	+11:43:59.8	J2000.00	1.046	180.0	00:17:37.5	749.3	B	Kitt Peak	4	1 x 1	
159032	VIRGO276	12:42:02.10	+11:43:59.8	J2000.00	1.046	180.0	00:35:06.1	749.3	B	Kitt Peak	1	1 x 1	
159033	VIRGO276	12:42:02.10	+11:43:59.8	J2000.00	1.046	180.0	00:35:06.1	749.3	B	Kitt Peak	5	1 x 1	
159034	VIRGO276	12:42:02.10	+11:43:59.8	J2000.00	1.046	180.0	00:35:06.1	749.3	B	Kitt Peak	3	1 x 1	
159035	VIRGO276	12:42:02.10	+11:43:59.8	J2000.00	1.046	180.0	00:35:06.1	749.3	B	Kitt Peak	4	1 x 1	
159036	SS101	9:56:20.99	-00:27:18.9	J2000.00	1.645	180.0	00:51:52.9	20.1	B	Kitt Peak	1	1 x 1	
159037	SS101	9:56:20.99	-00:27:18.9	J2000.00	1.645	180.0	00:51:52.9	20.1	B	Kitt Peak	5	1 x 1	
159038	SS101	9:56:20.99	-00:27:18.9	J2000.00	1.645	180.0	00:51:52.9	20.1	B	Kitt Peak	3	1 x 1	
159039	SS101	9:56:20.99	-00:27:18.9	J2000.00	1.645	180.0	00:51:52.9	20.1	B	Kitt Peak	4	1 x 1	
159040	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.152	180.0	00:56:15.8	20.1	B	Kitt Peak	1	1 x 1	
159041	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.152	180.0	00:56:15.8	20.1	B	Kitt Peak	5	1 x 1	
159042	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.152	180.0	00:56:15.8	20.1	B	Kitt Peak	3	1 x 1	
159043	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.152	180.0	00:56:15.8	20.1	B	Kitt Peak	4	1 x 1	
159044	SS104	12:42:21.99	-00:33:09.0	J2000.00	1.153	180.0	00:59:44.3	10.1	r	SLOAN	1	1 x 1	
159045	SS104	12:42:21.99	-00:33:09.0	J2000.00	1.153	180.0	00:59:44.3	10.1	r	SLOAN	5	1 x 1	
159046	SS104	12:42:21.99	-00:33:09.0	J2000.00	1.153	180.0	00:59:44.3	10.1	r	SLOAN	3	1 x 1	
159047	SS104	12:42:21.99	-00:33:09.0	J2000.00	1.153	180.0	00:59:44.3	10.1	r	SLOAN	4	1 x 1	
159048	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.424	180.0	01:05:12.9	20.1	B	Kitt Peak	1	1 x 1	
159049	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.424	180.0	01:05:12.9	20.1	B	Kitt Peak	5	1 x 1	
159050	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.424	180.0	01:05:12.9	20.1	B	Kitt Peak	3	1 x 1	
159051	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.424	180.0	01:05:12.9	20.1	B	Kitt Peak	4	1 x 1	

159052	SS107	15:39:35.00	-00:15:05.9	J2000.00	1.407	180.0	01:09:08.6	10.1	r	SLOAN	1	1 x 1
159053	SS107	15:39:35.00	-00:15:05.9	J2000.00	1.407	180.0	01:09:08.6	10.1	r	SLOAN	5	1 x 1
159054	SS107	15:39:35.00	-00:15:05.9	J2000.00	1.407	180.0	01:09:08.6	10.1	r	SLOAN	3	1 x 1
159055	SS107	15:39:35.00	-00:15:05.9	J2000.00	1.407	180.0	01:09:08.6	10.1	r	SLOAN	4	1 x 1
159056	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.168	180.0	01:20:06.8	299.7	r	SLOAN	1	1 x 1
159057	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.168	180.0	01:20:06.8	299.7	r	SLOAN	5	1 x 1
159058	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.168	180.0	01:20:06.8	299.7	r	SLOAN	3	1 x 1
159059	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.168	180.0	01:20:06.8	299.7	r	SLOAN	4	1 x 1
159060	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.182	180.0	01:30:31.7	299.9	r	SLOAN	1	1 x 1
159061	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.182	180.0	01:30:31.7	299.9	r	SLOAN	5	1 x 1
159062	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.182	180.0	01:30:31.7	299.9	r	SLOAN	3	1 x 1
159063	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.182	180.0	01:30:31.7	299.9	r	SLOAN	4	1 x 1
159064	WFSNGC082	12:42:00.00	+00:00:00.1	J2000.00	1.195	180.0	01:41:21.6	299.9	r	SLOAN	1	1 x 1
159065	WFSNGC082	12:42:00.00	+00:00:00.1	J2000.00	1.195	180.0	01:41:21.6	299.9	r	SLOAN	5	1 x 1
159066	WFSNGC082	12:42:00.00	+00:00:00.1	J2000.00	1.195	180.0	01:41:21.6	299.9	r	SLOAN	3	1 x 1
159067	WFSNGC082	12:42:00.00	+00:00:00.1	J2000.00	1.195	180.0	01:41:21.6	299.9	r	SLOAN	4	1 x 1
159068	WFSNGC083	12:43:59.99	-00:00:00.1	J2000.00	1.210	180.0	01:51:38.7	299.8	r	SLOAN	1	1 x 1
159069	WFSNGC083	12:43:59.99	-00:00:00.1	J2000.00	1.210	180.0	01:51:38.7	299.8	r	SLOAN	5	1 x 1
159070	WFSNGC083	12:43:59.99	-00:00:00.1	J2000.00	1.210	180.0	01:51:38.7	299.8	r	SLOAN	3	1 x 1
159071	WFSNGC083	12:43:59.99	-00:00:00.1	J2000.00	1.210	180.0	01:51:38.7	299.8	r	SLOAN	4	1 x 1
159072	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.239	180.0	02:01:59.5	299.8	r	SLOAN	1	1 x 1
159073	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.239	180.0	02:01:59.5	299.8	r	SLOAN	5	1 x 1
159074	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.239	180.0	02:01:59.5	299.8	r	SLOAN	3	1 x 1
159075	WFSNGC081	12:40:00.00	+00:00:00.0	J2000.00	1.239	180.0	02:01:59.5	299.8	r	SLOAN	4	1 x 1
159076	WFSNGC082	12:42:00.00	-00:00:00.0	J2000.00	1.261	180.0	02:12:37.5	299.8	r	SLOAN	1	1 x 1
159077	WFSNGC082	12:42:00.00	-00:00:00.0	J2000.00	1.261	180.0	02:12:37.5	299.8	r	SLOAN	5	1 x 1
159078	WFSNGC082	12:42:00.00	-00:00:00.0	J2000.00	1.261	180.0	02:12:37.5	299.8	r	SLOAN	3	1 x 1
159079	WFSNGC082	12:42:00.00	-00:00:00.0	J2000.00	1.261	180.0	02:12:37.5	299.8	r	SLOAN	4	1 x 1
159080	WFSNGC083	12:44:00.00	+00:00:00.0	J2000.00	1.285	180.0	02:23:37.8	299.8	r	SLOAN	1	1 x 1
159081	WFSNGC083	12:44:00.00	+00:00:00.0	J2000.00	1.285	180.0	02:23:37.8	299.8	r	SLOAN	5	1 x 1
159082	WFSNGC083	12:44:00.00	+00:00:00.0	J2000.00	1.285	180.0	02:23:37.8	299.8	r	SLOAN	3	1 x 1
159083	WFSNGC083	12:44:00.00	+00:00:00.0	J2000.00	1.285	180.0	02:23:37.8	299.8	r	SLOAN	4	1 x 1
159084	WFSNGC083	12:44:00.00	+00:00:00.0	J2000.00	1.319	180.0	02:34:16.3	299.7	r	SLOAN	1	1 x 1
159085	WFSNGC083	12:44:00.00	+00:00:00.0	J2000.00	1.319	180.0	02:34:16.3	299.7	r	SLOAN	5	1 x 1
159086	WFSNGC083	12:44:00.00	+00:00:00.0	J2000.00	1.319	180.0	02:34:16.3	299.7	r	SLOAN	3	1 x 1
159087	WFSNGC083	12:44:00.00	+00:00:00.0	J2000.00	1.319	180.0	02:34:16.3	299.7	r	SLOAN	4	1 x 1
159088	WFSNGC085	12:48:00.00	-00:00:00.0	J2000.00	1.341	180.0	02:44:41.6	299.4	r	SLOAN	1	1 x 1
159089	WFSNGC085	12:48:00.00	-00:00:00.0	J2000.00	1.341	180.0	02:44:41.6	299.4	r	SLOAN	5	1 x 1
159090	WFSNGC085	12:48:00.00	-00:00:00.0	J2000.00	1.341	180.0	02:44:41.6	299.4	r	SLOAN	3	1 x 1
159091	WFSNGC085	12:48:00.00	-00:00:00.0	J2000.00	1.341	180.0	02:44:41.6	299.4	r	SLOAN	4	1 x 1
159092	WFSNGC086	12:50:00.00	-00:00:00.0	J2000.00	1.375	180.0	02:55:29.7	299.9	r	SLOAN	1	1 x 1
159093	WFSNGC086	12:50:00.00	-00:00:00.0	J2000.00	1.375	180.0	02:55:29.7	299.9	r	SLOAN	5	1 x 1
159094	WFSNGC086	12:50:00.00	-00:00:00.0	J2000.00	1.375	180.0	02:55:29.7	299.9	r	SLOAN	3	1 x 1
159095	WFSNGC086	12:50:00.00	-00:00:00.0	J2000.00	1.375	180.0	02:55:29.7	299.9	r	SLOAN	4	1 x 1
159096	WFSNGC087	12:51:59.99	+00:00:00.0	J2000.00	1.409	180.0	03:05:35.5	299.8	r	SLOAN	1	1 x 1
159097	WFSNGC087	12:51:59.99	+00:00:00.0	J2000.00	1.409	180.0	03:05:35.5	299.8	r	SLOAN	5	1 x 1
159098	WFSNGC087	12:51:59.99	+00:00:00.0	J2000.00	1.409	180.0	03:05:35.5	299.8	r	SLOAN	3	1 x 1
159099	WFSNGC087	12:51:59.99	+00:00:00.0	J2000.00	1.409	180.0	03:05:35.5	299.8	r	SLOAN	4	1 x 1
159100	WFSNGC085	12:48:00.00	+00:00:00.0	J2000.00	1.481	180.0	03:16:15.1	299.8	r	SLOAN	1	1 x 1
159101	WFSNGC085	12:48:00.00	+00:00:00.0	J2000.00	1.481	180.0	03:16:15.1	299.8	r	SLOAN	5	1 x 1
159102	WFSNGC085	12:48:00.00	+00:00:00.0	J2000.00	1.481	180.0	03:16:15.1	299.8	r	SLOAN	3	1 x 1
159103	WFSNGC085	12:48:00.00	+00:00:00.0	J2000.00	1.481	180.0	03:16:15.1	299.8	r	SLOAN	4	1 x 1
159104	WFSNGC086	12:50:00.00	+00:00:00.0	J2000.00	1.533	180.0	03:27:25.7	299.9	r	SLOAN	1	1 x 1
159105	WFSNGC086	12:50:00.00	+00:00:00.0	J2000.00	1.533	180.0	03:27:25.7	299.9	r	SLOAN	5	1 x 1
159106	WFSNGC086	12:50:00.00	+00:00:00.0	J2000.00	1.533	180.0	03:27:25.7	299.9	r	SLOAN	3	1 x 1
159107	WFSNGC086	12:50:00.00	+00:00:00.0	J2000.00	1.533	180.0	03:27:25.7	299.9	r	SLOAN	4	1 x 1
159108	WFSNGC087	12:51:59.99	+00:00:00.0	J2000.00	1.588	180.0	03:37:59.5	299.8	r	SLOAN	1	1 x 1
159109	WFSNGC087	12:51:59.99	+00:00:00.0	J2000.00	1.588	180.0	03:37:59.5	299.8	r	SLOAN	5	1 x 1
159110	WFSNGC087	12:51:59.99	+00:00:00.0	J2000.00	1.588	180.0	03:37:59.5	299.8	r	SLOAN	3	1 x 1
159111	WFSNGC087	12:51:59.99	+00:00:00.0	J2000.00	1.588	180.0	03:37:59.5	299.8	r	SLOAN	4	1 x 1
159112	WFSNGC120	13:58:00.00	-00:00:00.0	J2000.00	1.327	180.0	03:50:22.7	299.8	r	SLOAN	1	1 x 1
159113	WFSNGC120	13:58:00.00	-00:00:00.0	J2000.00	1.327	180.0	03:50:22.7	299.8	r	SLOAN	5	1 x 1

159114	WFSNGC120	13:58:00.00	-00:00:00.0	J2000.00	1.327	180.0	03:50:22.7	299.8	r	SLOAN	3	1 x 1
159115	WFSNGC120	13:58:00.00	-00:00:00.0	J2000.00	1.327	180.0	03:50:22.7	299.8	r	SLOAN	4	1 x 1
159116	WFSNGC121	14:00:00.00	+00:00:00.0	J2000.00	1.358	180.0	04:01:06.8	299.3	r	SLOAN	1	1 x 1
159117	WFSNGC121	14:00:00.00	+00:00:00.0	J2000.00	1.358	180.0	04:01:06.8	299.3	r	SLOAN	5	1 x 1
159118	WFSNGC121	14:00:00.00	+00:00:00.0	J2000.00	1.358	180.0	04:01:06.8	299.3	r	SLOAN	3	1 x 1
159119	WFSNGC121	14:00:00.00	+00:00:00.0	J2000.00	1.358	180.0	04:01:06.8	299.3	r	SLOAN	4	1 x 1
159120	WFSNGC122	14:02:00.00	+00:00:00.0	J2000.00	1.394	180.0	04:11:51.8	299.7	r	SLOAN	1	1 x 1
159121	WFSNGC122	14:02:00.00	+00:00:00.0	J2000.00	1.394	180.0	04:11:51.8	299.7	r	SLOAN	5	1 x 1
159122	WFSNGC122	14:02:00.00	+00:00:00.0	J2000.00	1.394	180.0	04:11:51.8	299.7	r	SLOAN	3	1 x 1
159123	WFSNGC122	14:02:00.00	+00:00:00.0	J2000.00	1.394	180.0	04:11:51.8	299.7	r	SLOAN	4	1 x 1
159124	WFSNGC120	13:58:00.00	-00:00:00.0	J2000.00	1.465	180.0	04:22:34.7	359.6	r	SLOAN	1	1 x 1
159125	WFSNGC120	13:58:00.00	-00:00:00.0	J2000.00	1.465	180.0	04:22:34.7	359.6	r	SLOAN	5	1 x 1
159126	WFSNGC120	13:58:00.00	-00:00:00.0	J2000.00	1.465	180.0	04:22:34.7	359.6	r	SLOAN	3	1 x 1
159127	WFSNGC120	13:58:00.00	-00:00:00.0	J2000.00	1.465	180.0	04:22:34.7	359.6	r	SLOAN	4	1 x 1
159128	WFSNGC121	14:00:00.00	+00:00:00.0	J2000.00	1.519	180.0	04:34:48.6	299.7	r	SLOAN	1	1 x 1
159129	WFSNGC121	14:00:00.00	+00:00:00.0	J2000.00	1.519	180.0	04:34:48.6	299.7	r	SLOAN	5	1 x 1
159130	WFSNGC121	14:00:00.00	+00:00:00.0	J2000.00	1.519	180.0	04:34:48.6	299.7	r	SLOAN	3	1 x 1
159131	WFSNGC121	14:00:00.00	+00:00:00.0	J2000.00	1.519	180.0	04:34:48.6	299.7	r	SLOAN	4	1 x 1
159132	WFSNGC122	14:02:00.00	+00:00:00.0	J2000.00	1.575	180.0	04:45:58.0	299.8	r	SLOAN	1	1 x 1
159133	WFSNGC122	14:02:00.00	+00:00:00.0	J2000.00	1.575	180.0	04:45:58.0	299.8	r	SLOAN	5	1 x 1
159134	WFSNGC122	14:02:00.00	+00:00:00.0	J2000.00	1.575	180.0	04:45:58.0	299.8	r	SLOAN	3	1 x 1
159135	WFSNGC122	14:02:00.00	+00:00:00.0	J2000.00	1.575	180.0	04:45:58.0	299.8	r	SLOAN	4	1 x 1
159136	WFSNGC119	13:56:00.00	-00:00:00.0	J2000.00	1.748	180.0	05:02:37.4	299.9	r	SLOAN	1	1 x 1
159137	WFSNGC119	13:56:00.00	-00:00:00.0	J2000.00	1.748	180.0	05:02:37.4	299.9	r	SLOAN	5	1 x 1
159138	WFSNGC119	13:56:00.00	-00:00:00.0	J2000.00	1.748	180.0	05:02:37.4	299.9	r	SLOAN	3	1 x 1
159139	WFSNGC119	13:56:00.00	-00:00:00.0	J2000.00	1.748	180.0	05:02:37.4	299.9	r	SLOAN	4	1 x 1
159140	WFSNGC123	14:04:00.00	+00:00:00.0	J2000.00	1.790	180.0	05:14:08.8	419.6	r	SLOAN	1	1 x 1
159141	WFSNGC123	14:04:00.00	+00:00:00.0	J2000.00	1.790	180.0	05:14:08.8	419.6	r	SLOAN	5	1 x 1
159142	WFSNGC123	14:04:00.00	+00:00:00.0	J2000.00	1.790	180.0	05:14:08.8	419.6	r	SLOAN	3	1 x 1
159143	WFSNGC123	14:04:00.00	+00:00:00.0	J2000.00	1.790	180.0	05:14:08.8	419.6	r	SLOAN	4	1 x 1
159148	WFSNGC119	13:56:00.00	-00:00:00.0	J2000.00	2.022	180.0	05:28:09.6	299.9	r	SLOAN	1	1 x 1
159149	WFSNGC119	13:56:00.00	-00:00:00.0	J2000.00	2.022	180.0	05:28:09.6	299.9	r	SLOAN	5	1 x 1
159150	WFSNGC119	13:56:00.00	-00:00:00.0	J2000.00	2.022	180.0	05:28:09.6	299.9	r	SLOAN	3	1 x 1
159151	WFSNGC119	13:56:00.00	-00:00:00.0	J2000.00	2.022	180.0	05:28:09.6	299.9	r	SLOAN	4	1 x 1
159152	WFSNGC123	14:04:00.00	+00:00:00.1	J2000.00	2.069	180.0	05:39:41.1	299.8	r	SLOAN	1	1 x 1
159153	WFSNGC123	14:04:00.00	+00:00:00.1	J2000.00	2.069	180.0	05:39:41.1	299.8	r	SLOAN	5	1 x 1
159154	WFSNGC123	14:04:00.00	+00:00:00.1	J2000.00	2.069	180.0	05:39:41.1	299.8	r	SLOAN	3	1 x 1
159155	WFSNGC123	14:04:00.00	+00:00:00.1	J2000.00	2.069	180.0	05:39:41.1	299.8	r	SLOAN	4	1 x 1
159156	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.406	180.0	05:53:24.9	10.1	r	SLOAN	1	1 x 1
159157	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.406	180.0	05:53:24.9	10.1	r	SLOAN	5	1 x 1
159158	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.406	180.0	05:53:24.9	10.1	r	SLOAN	3	1 x 1
159159	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.406	180.0	05:53:24.9	10.1	r	SLOAN	4	1 x 1
159160	BLANK4	19:19:08.99	+12:22:04.9	B1950.00	1.079	180.0	06:07:48.0	100.1	r	SLOAN	1	1 x 1
159161	BLANK4	19:19:08.99	+12:22:04.9	B1950.00	1.079	180.0	06:07:48.0	100.1	r	SLOAN	5	1 x 1
159162	BLANK4	19:19:08.99	+12:22:04.9	B1950.00	1.079	180.0	06:07:48.0	100.1	r	SLOAN	3	1 x 1
159163	BLANK4	19:19:08.99	+12:22:04.9	B1950.00	1.079	180.0	06:07:48.0	100.1	r	SLOAN	4	1 x 1
159164	BLANK4	19:19:09.00	+12:22:04.9	B1950.00	1.074	180.0	06:12:52.4	40.1	r	SLOAN	1	1 x 1
159165	BLANK4	19:19:09.00	+12:22:04.9	B1950.00	1.074	180.0	06:12:52.4	40.1	r	SLOAN	5	1 x 1
159166	BLANK4	19:19:09.00	+12:22:04.9	B1950.00	1.074	180.0	06:12:52.4	40.1	r	SLOAN	3	1 x 1
159167	BLANK4	19:19:09.00	+12:22:04.9	B1950.00	1.074	180.0	06:12:52.4	40.1	r	SLOAN	4	1 x 1
159168	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.070	180.0	06:16:46.0	15.2	r	SLOAN	1	1 x 1
159169	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.070	180.0	06:16:46.0	15.2	r	SLOAN	5	1 x 1
159170	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.070	180.0	06:16:46.0	15.2	r	SLOAN	3	1 x 1
159171	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.070	180.0	06:16:46.0	15.2	r	SLOAN	4	1 x 1
159172	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.067	180.0	06:20:17.9	8.3	r	SLOAN	1	1 x 1
159173	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.067	180.0	06:20:17.9	8.3	r	SLOAN	5	1 x 1
159174	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.067	180.0	06:20:17.9	8.3	r	SLOAN	3	1 x 1
159175	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.067	180.0	06:20:17.9	8.3	r	SLOAN	4	1 x 1
159176	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.063	180.0	06:23:43.1	4.1	r	SLOAN	1	1 x 1
159177	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.063	180.0	06:23:43.1	4.1	r	SLOAN	5	1 x 1
159178	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.063	180.0	06:23:43.1	4.1	r	SLOAN	3	1 x 1
159179	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.063	180.0	06:23:43.1	4.1	r	SLOAN	4	1 x 1