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

TELESCOPE:             INT
DATE:                  1999 Apr 10/11
INT TAPE NR:           INTD4016-17
OBSERVER:              J. Davies, A. Kambas, J. Haynes, R. Pain, D. Hardin
PROGRAMME:             WFS 09
PATT/CAT:              WFS 09
TELESCOPE OPERATOR:    P. Sorensen
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:            08:34
DOME OPEN (UTC):       20:00
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:
Time lost to faults 3:30
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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys	Channel	Binning	Comments
158670	Bias frame	4:25:45.99	+54:09:03.0	B1950.00	1.385	180.0	19:45:47.1	0.0	V	Harris	1	1 x 1	crap

158671	Bias frame	4:25:45.99	+54:09:03.0	B1950.00	1.385	180.0	19:45:47.1	0.0	V	Harris	5	1 x 1	
158672	Bias frame	4:25:45.99	+54:09:03.0	B1950.00	1.385	180.0	19:45:47.1	0.0	V	Harris	3	1 x 1	
158673	Bias frame	4:25:45.99	+54:09:03.0	B1950.00	1.385	180.0	19:45:47.1	0.0	V	Harris	4	1 x 1	
158674	Bias frame	4:25:45.99	+54:09:02.9	B1950.00	1.394	180.0	19:48:33.6	0.0	V	Harris	1	1 x 1	crap
158675	Bias frame	4:25:45.99	+54:09:02.9	B1950.00	1.394	180.0	19:48:33.6	0.0	V	Harris	5	1 x 1	
158676	Bias frame	4:25:45.99	+54:09:02.9	B1950.00	1.394	180.0	19:48:33.6	0.0	V	Harris	3	1 x 1	
158677	Bias frame	4:25:45.99	+54:09:02.9	B1950.00	1.394	180.0	19:48:33.6	0.0	V	Harris	4	1 x 1	

............................lot of pickup - preceding data deleted

158682	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.441	180.0	20:01:50.2	5.1	r	Sloan	1	1 x 1	crap
158683	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.441	180.0	20:01:50.2	5.1	r	Sloan	5	1 x 1	
158684	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.441	180.0	20:01:50.2	5.1	r	Sloan	3	1 x 1	
158685	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.441	180.0	20:01:50.2	5.1	r	Sloan	4	1 x 1	
158690	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.464	180.0	20:07:31.3	20.1	B	Kitt Peak	1	1 x 1	crap
158691	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.464	180.0	20:07:31.3	20.1	B	Kitt Peak	5	1 x 1	
158692	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.464	180.0	20:07:31.3	20.1	B	Kitt Peak	3	1 x 1	
158693	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.464	180.0	20:07:31.3	20.1	B	Kitt Peak	4	1 x 1	
158694	Flat field	4:25:45.99	+54:09:02.9	B1950.00	1.477	180.0	20:10:50.7	30.1	B	Kitt Peak	1	1 x 1	crap
158695	Flat field	4:25:45.99	+54:09:02.9	B1950.00	1.477	180.0	20:10:50.7	30.1	B	Kitt Peak	5	1 x 1	
158696	Flat field	4:25:45.99	+54:09:02.9	B1950.00	1.477	180.0	20:10:50.7	30.1	B	Kitt Peak	3	1 x 1	
158697	Flat field	4:25:45.99	+54:09:02.9	B1950.00	1.477	180.0	20:10:50.7	30.1	B	Kitt Peak	4	1 x 1	
158698	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.493	180.0	20:14:27.4	70.1	B	Kitt Peak	1	1 x 1	crap
158699	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.493	180.0	20:14:27.4	70.1	B	Kitt Peak	5	1 x 1	
158700	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.493	180.0	20:14:27.4	70.1	B	Kitt Peak	3	1 x 1	
158701	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.493	180.0	20:14:27.4	70.1	B	Kitt Peak	4	1 x 1	
158702	Flat field	4:25:45.99	+54:09:03.1	B1950.00	1.514	180.0	20:18:36.5	150.0	B	Kitt Peak	1	1 x 1	crap
158703	Flat field	4:25:45.99	+54:09:03.1	B1950.00	1.514	180.0	20:18:36.5	150.0	B	Kitt Peak	5	1 x 1	
158704	Flat field	4:25:45.99	+54:09:03.1	B1950.00	1.514	180.0	20:18:36.5	150.0	B	Kitt Peak	3	1 x 1	
158705	Flat field	4:25:45.99	+54:09:03.1	B1950.00	1.514	180.0	20:18:36.5	150.0	B	Kitt Peak	4	1 x 1	
158706	SS98	6:51:52.00	-00:20:16.0	J2000.00	1.346	180.0	20:55:43.1	20.1	B	Kitt Peak	1	1 x 1	crap
158707	SS98	6:51:52.00	-00:20:16.0	J2000.00	1.346	180.0	20:55:43.1	20.1	B	Kitt Peak	5	1 x 1	
158708	SS98	6:51:52.00	-00:20:16.0	J2000.00	1.346	180.0	20:55:43.1	20.1	B	Kitt Peak	3	1 x 1	
158709	SS98	6:51:52.00	-00:20:16.0	J2000.00	1.346	180.0	20:55:43.1	20.1	B	Kitt Peak	4	1 x 1	
158710	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.176	180.0	21:00:30.4	20.1	B	Kitt Peak	1	1 x 1	crap
158711	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.176	180.0	21:00:30.4	20.1	B	Kitt Peak	5	1 x 1	
158712	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.176	180.0	21:00:30.4	20.1	B	Kitt Peak	3	1 x 1	
158713	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.176	180.0	21:00:30.4	20.1	B	Kitt Peak	4	1 x 1	
158714	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.928	180.0	21:05:11.9	20.1	B	Kitt Peak	1	1 x 1	crap
158715	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.928	180.0	21:05:11.9	20.1	B	Kitt Peak	5	1 x 1	
158716	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.928	180.0	21:05:11.9	20.1	B	Kitt Peak	3	1 x 1	
158717	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.928	180.0	21:05:11.9	20.1	B	Kitt Peak	4	1 x 1	
158718	VIRGO319	12:48:24.70	+12:24:00.0	J2000.00	1.551	180.0	21:15:38.3	749.2	B	Kitt Peak	1	1 x 1	crap
158719	VIRGO319	12:48:24.70	+12:24:00.0	J2000.00	1.551	180.0	21:15:38.3	749.2	B	Kitt Peak	5	1 x 1	
158720	VIRGO319	12:48:24.70	+12:24:00.0	J2000.00	1.551	180.0	21:15:38.3	749.2	B	Kitt Peak	3	1 x 1	
158721	VIRGO319	12:48:24.70	+12:24:00.0	J2000.00	1.551	180.0	21:15:38.3	749.2	B	Kitt Peak	4	1 x 1	
158722	Bias frame	12:50:31.60	+12:24:00.0	J2000.00	1.276	180.0	22:17:21.4	0.0	Unknown	Unknown	1	1 x 1	crap
158723	Bias frame	12:50:31.60	+12:24:00.0	J2000.00	1.276	180.0	22:17:21.4	0.0	Unknown	Unknown	5	1 x 1	
158724	Bias frame	12:50:31.60	+12:24:00.0	J2000.00	1.276	180.0	22:17:21.4	0.0	Unknown	Unknown	3	1 x 1	
158725	Bias frame	12:50:31.60	+12:24:00.0	J2000.00	1.276	180.0	22:17:21.4	0.0	Unknown	Unknown	4	1 x 1	
158730	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.185	180.0	22:52:02.9	20.1	B	Kitt Peak	1	1 x 1	crap
158731	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.185	180.0	22:52:02.9	20.1	B	Kitt Peak	5	1 x 1	
158732	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.185	180.0	22:52:02.9	20.1	B	Kitt Peak	3	1 x 1	
158733	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.185	180.0	22:52:02.9	20.1	B	Kitt Peak	4	1 x 1	
158734	SS101	9:56:21.00	-00:27:18.9	J2000.00	1.192	180.0	22:57:04.3	20.1	B	Kitt Peak	1	1 x 1	crap
158735	SS101	9:56:21.00	-00:27:18.9	J2000.00	1.192	180.0	22:57:04.3	20.1	B	Kitt Peak	5	1 x 1	
158736	SS101	9:56:21.00	-00:27:18.9	J2000.00	1.192	180.0	22:57:04.3	20.1	B	Kitt Peak	3	1 x 1	
158737	SS101	9:56:21.00	-00:27:18.9	J2000.00	1.192	180.0	22:57:04.3	20.1	B	Kitt Peak	4	1 x 1	
158738	Bias frame	12:48:24.70	+12:23:59.9	J2000.00	1.141	180.0	23:03:11.0	0.0	B	Kitt Peak	1	1 x 1	crap
158739	Bias frame	12:48:24.70	+12:23:59.9	J2000.00	1.141	180.0	23:03:11.0	0.0	B	Kitt Peak	5	1 x 1	
158740	Bias frame	12:48:24.70	+12:23:59.9	J2000.00	1.141	180.0	23:03:11.0	0.0	B	Kitt Peak	3	1 x 1	
158741	Bias frame	12:48:24.70	+12:23:59.9	J2000.00	1.141	180.0	23:03:11.0	0.0	B	Kitt Peak	4	1 x 1	

158742	SS101	9:56:21.00	-00:27:18.8	J2000.00	1.223	180.0	23:14:49.3	20.1	B	Kitt Peak	1	1 x 1	ok
158743	SS101	9:56:21.00	-00:27:18.8	J2000.00	1.223	180.0	23:14:49.3	20.1	B	Kitt Peak	5	1 x 1	
158744	SS101	9:56:21.00	-00:27:18.8	J2000.00	1.223	180.0	23:14:49.3	20.1	B	Kitt Peak	3	1 x 1	
158745	SS101	9:56:21.00	-00:27:18.8	J2000.00	1.223	180.0	23:14:49.3	20.1	B	Kitt Peak	4	1 x 1	
158746	VIRGO319	12:48:24.70	+12:24:00.0	J2000.00	1.090	180.0	23:26:20.9	749.4	B	Kitt Peak	1	1 x 1	crap,ok for flat
158747	VIRGO319	12:48:24.70	+12:24:00.0	J2000.00	1.090	180.0	23:26:20.9	749.4	B	Kitt Peak	5	1 x 1	
158748	VIRGO319	12:48:24.70	+12:24:00.0	J2000.00	1.090	180.0	23:26:20.9	749.4	B	Kitt Peak	3	1 x 1	
158749	VIRGO319	12:48:24.70	+12:24:00.0	J2000.00	1.090	180.0	23:26:20.9	749.4	B	Kitt Peak	4	1 x 1	
158750	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.297	180.0	23:44:28.0	20.1	B	Kitt Peak	1	1 x 1	
158751	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.297	180.0	23:44:28.0	20.1	B	Kitt Peak	5	1 x 1	
158752	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.297	180.0	23:44:28.0	20.1	B	Kitt Peak	3	1 x 1	
158753	SS101	9:56:21.00	-00:27:19.0	J2000.00	1.297	180.0	23:44:28.0	20.1	B	Kitt Peak	4	1 x 1	
158754	VIRGO319	12:48:24.69	+12:23:59.9	J2000.00	1.058	180.0	23:57:05.8	749.2	B	Kitt Peak	1	1 x 1	
158755	VIRGO319	12:48:24.69	+12:23:59.9	J2000.00	1.058	180.0	23:57:05.8	749.2	B	Kitt Peak	5	1 x 1	
158756	VIRGO319	12:48:24.69	+12:23:59.9	J2000.00	1.058	180.0	23:57:05.8	749.2	B	Kitt Peak	3	1 x 1	
158757	VIRGO319	12:48:24.69	+12:23:59.9	J2000.00	1.058	180.0	23:57:05.8	749.2	B	Kitt Peak	4	1 x 1	
158758	VIRGO320	12:50:31.60	+12:24:00.1	J2000.00	1.047	180.0	00:17:28.5	749.4	B	Kitt Peak	1	1 x 1	
158759	VIRGO320	12:50:31.60	+12:24:00.1	J2000.00	1.047	180.0	00:17:28.5	749.4	B	Kitt Peak	5	1 x 1	
158760	VIRGO320	12:50:31.60	+12:24:00.1	J2000.00	1.047	180.0	00:17:28.5	749.4	B	Kitt Peak	3	1 x 1	
158761	VIRGO320	12:50:31.60	+12:24:00.1	J2000.00	1.047	180.0	00:17:28.5	749.4	B	Kitt Peak	4	1 x 1	
158762	VIRGO291	12:31:28.89	+12:03:59.8	J2000.00	1.046	180.0	00:37:31.9	749.1	B	Kitt Peak	1	1 x 1	
158763	VIRGO291	12:31:28.89	+12:03:59.8	J2000.00	1.046	180.0	00:37:31.9	749.1	B	Kitt Peak	5	1 x 1	
158764	VIRGO291	12:31:28.89	+12:03:59.8	J2000.00	1.046	180.0	00:37:31.9	749.1	B	Kitt Peak	3	1 x 1	
158765	VIRGO291	12:31:28.89	+12:03:59.8	J2000.00	1.046	180.0	00:37:31.9	749.1	B	Kitt Peak	4	1 x 1	
158766	VIRGO292	12:33:35.69	+12:03:59.9	J2000.00	1.054	180.0	00:56:39.4	749.2	B	Kitt Peak	1	1 x 1	
158767	VIRGO292	12:33:35.69	+12:03:59.9	J2000.00	1.054	180.0	00:56:39.4	749.2	B	Kitt Peak	5	1 x 1	
158768	VIRGO292	12:33:35.69	+12:03:59.9	J2000.00	1.054	180.0	00:56:39.4	749.2	B	Kitt Peak	3	1 x 1	
158769	VIRGO292	12:33:35.69	+12:03:59.9	J2000.00	1.054	180.0	00:56:39.4	749.2	B	Kitt Peak	4	1 x 1	
158770	VIRGO293	12:35:42.50	+12:04:00.1	J2000.00	1.067	180.0	01:16:12.0	748.9	B	Kitt Peak	1	1 x 1	
158771	VIRGO293	12:35:42.50	+12:04:00.1	J2000.00	1.067	180.0	01:16:12.0	748.9	B	Kitt Peak	5	1 x 1	
158772	VIRGO293	12:35:42.50	+12:04:00.1	J2000.00	1.067	180.0	01:16:12.0	748.9	B	Kitt Peak	3	1 x 1	
158773	VIRGO293	12:35:42.50	+12:04:00.1	J2000.00	1.067	180.0	01:16:12.0	748.9	B	Kitt Peak	4	1 x 1	
158774	VIRGO294	12:37:49.29	+12:03:59.9	J2000.00	1.089	180.0	01:37:32.2	749.4	B	Kitt Peak	1	1 x 1	
158775	VIRGO294	12:37:49.29	+12:03:59.9	J2000.00	1.089	180.0	01:37:32.2	749.4	B	Kitt Peak	5	1 x 1	
158776	VIRGO294	12:37:49.29	+12:03:59.9	J2000.00	1.089	180.0	01:37:32.2	749.4	B	Kitt Peak	3	1 x 1	
158777	VIRGO294	12:37:49.29	+12:03:59.9	J2000.00	1.089	180.0	01:37:32.2	749.4	B	Kitt Peak	4	1 x 1	
158778	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.212	180.0	01:54:08.9	20.1	B	Kitt Peak	1	1 x 1	
158779	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.212	180.0	01:54:08.9	20.1	B	Kitt Peak	5	1 x 1	
158780	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.212	180.0	01:54:08.9	20.1	B	Kitt Peak	3	1 x 1	
158781	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.212	180.0	01:54:08.9	20.1	B	Kitt Peak	4	1 x 1	
158782	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.220	180.0	01:58:00.5	10.1	r	SLOAN	1	1 x 1	
158783	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.220	180.0	01:58:00.5	10.1	r	SLOAN	5	1 x 1	
158784	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.220	180.0	01:58:00.5	10.1	r	SLOAN	3	1 x 1	
158785	SS104	12:42:22.00	-00:33:09.0	J2000.00	1.220	180.0	01:58:00.5	10.1	r	SLOAN	4	1 x 1	
158786	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.243	180.0	02:02:44.7	19.6	B	Kitt Peak	1	1 x 1	
158787	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.243	180.0	02:02:44.7	19.6	B	Kitt Peak	5	1 x 1	
158788	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.243	180.0	02:02:44.7	19.6	B	Kitt Peak	3	1 x 1	
158789	SS107	15:39:35.00	-00:15:06.0	J2000.00	1.243	180.0	02:02:44.7	19.6	B	Kitt Peak	4	1 x 1	
158790	SS107	15:39:34.99	-00:15:05.9	J2000.00	1.235	180.0	02:06:39.3	10.1	r	SLOAN	1	1 x 1	
158791	SS107	15:39:34.99	-00:15:05.9	J2000.00	1.235	180.0	02:06:39.3	10.1	r	SLOAN	5	1 x 1	
158792	SS107	15:39:34.99	-00:15:05.9	J2000.00	1.235	180.0	02:06:39.3	10.1	r	SLOAN	3	1 x 1	
158793	SS107	15:39:34.99	-00:15:05.9	J2000.00	1.235	180.0	02:06:39.3	10.1	r	SLOAN	4	1 x 1	
158794	WFSNGC096	13:10:00.00	+00:00:00.1	J2000.00	1.201	180.0	02:16:34.8	299.8	r	SLOAN	1	1 x 1	
158795	WFSNGC096	13:10:00.00	+00:00:00.1	J2000.00	1.201	180.0	02:16:34.8	299.8	r	SLOAN	5	1 x 1	
158796	WFSNGC096	13:10:00.00	+00:00:00.1	J2000.00	1.201	180.0	02:16:34.8	299.8	r	SLOAN	3	1 x 1	
158797	WFSNGC096	13:10:00.00	+00:00:00.1	J2000.00	1.201	180.0	02:16:34.8	299.8	r	SLOAN	4	1 x 1	
158798	WFSNGC100	13:17:59.99	-00:00:00.0	J2000.00	1.207	180.0	02:28:05.3	299.8	r	SLOAN	1	1 x 1	
158799	WFSNGC100	13:17:59.99	-00:00:00.0	J2000.00	1.207	180.0	02:28:05.3	299.8	r	SLOAN	5	1 x 1	
158800	WFSNGC100	13:17:59.99	-00:00:00.0	J2000.00	1.207	180.0	02:28:05.3	299.8	r	SLOAN	3	1 x 1	
158801	WFSNGC100	13:17:59.99	-00:00:00.0	J2000.00	1.207	180.0	02:28:05.3	299.8	r	SLOAN	4	1 x 1	
158802	WFSNGC126	14:09:59.99	+00:00:00.0	J2000.00	1.155	180.0	02:39:49.5	299.9	r	SLOAN	1	1 x 1	
158803	WFSNGC126	14:09:59.99	+00:00:00.0	J2000.00	1.155	180.0	02:39:49.5	299.9	r	SLOAN	5	1 x 1	

158804	WFSNGC126	14:09:59.99	+00:00:00.0	J2000.00	1.155	180.0	02:39:49.5	299.9	r	SLOAN	3	1 x 1
158805	WFSNGC126	14:09:59.99	+00:00:00.0	J2000.00	1.155	180.0	02:39:49.5	299.9	r	SLOAN	4	1 x 1
158806	WFSNGC127	14:12:00.00	-00:00:00.0	J2000.00	1.162	180.0	02:50:11.4	299.7	r	SLOAN	1	1 x 1
158807	WFSNGC127	14:12:00.00	-00:00:00.0	J2000.00	1.162	180.0	02:50:11.4	299.7	r	SLOAN	5	1 x 1
158808	WFSNGC127	14:12:00.00	-00:00:00.0	J2000.00	1.162	180.0	02:50:11.4	299.7	r	SLOAN	3	1 x 1
158809	WFSNGC127	14:12:00.00	-00:00:00.0	J2000.00	1.162	180.0	02:50:11.4	299.7	r	SLOAN	4	1 x 1
158810	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.172	180.0	03:00:46.6	299.8	r	SLOAN	1	1 x 1
158811	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.172	180.0	03:00:46.6	299.8	r	SLOAN	5	1 x 1
158812	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.172	180.0	03:00:46.6	299.8	r	SLOAN	3	1 x 1
158813	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.172	180.0	03:00:46.6	299.8	r	SLOAN	4	1 x 1
158814	WFSNGC126	14:10:00.00	-00:00:00.0	J2000.00	1.193	180.0	03:11:45.6	299.9	r	SLOAN	1	1 x 1
158815	WFSNGC126	14:10:00.00	-00:00:00.0	J2000.00	1.193	180.0	03:11:45.6	299.9	r	SLOAN	5	1 x 1
158816	WFSNGC126	14:10:00.00	-00:00:00.0	J2000.00	1.193	180.0	03:11:45.6	299.9	r	SLOAN	3	1 x 1
158817	WFSNGC126	14:10:00.00	-00:00:00.0	J2000.00	1.193	180.0	03:11:45.6	299.9	r	SLOAN	4	1 x 1
158818	WFSNGC127	14:11:59.99	-00:00:00.0	J2000.00	1.208	180.0	03:22:30.6	298.8	r	SLOAN	1	1 x 1
158819	WFSNGC127	14:11:59.99	-00:00:00.0	J2000.00	1.208	180.0	03:22:30.6	298.8	r	SLOAN	5	1 x 1
158820	WFSNGC127	14:11:59.99	-00:00:00.0	J2000.00	1.208	180.0	03:22:30.6	298.8	r	SLOAN	3	1 x 1
158821	WFSNGC127	14:11:59.99	-00:00:00.0	J2000.00	1.208	180.0	03:22:30.6	298.8	r	SLOAN	4	1 x 1
158822	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.225	180.0	03:33:14.2	299.8	r	SLOAN	1	1 x 1
158823	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.225	180.0	03:33:14.2	299.8	r	SLOAN	5	1 x 1
158824	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.225	180.0	03:33:14.2	299.8	r	SLOAN	3	1 x 1
158825	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.225	180.0	03:33:14.2	299.8	r	SLOAN	4	1 x 1
158826	WFSNGC127	14:12:00.00	+00:00:00.0	J2000.00	1.255	180.0	03:44:17.7	299.3	r	SLOAN	1	1 x 1
158827	WFSNGC127	14:12:00.00	+00:00:00.0	J2000.00	1.255	180.0	03:44:17.7	299.3	r	SLOAN	5	1 x 1
158828	WFSNGC127	14:12:00.00	+00:00:00.0	J2000.00	1.255	180.0	03:44:17.7	299.3	r	SLOAN	3	1 x 1
158829	WFSNGC127	14:12:00.00	+00:00:00.0	J2000.00	1.255	180.0	03:44:17.7	299.3	r	SLOAN	4	1 x 1
158830	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.278	180.0	03:54:43.3	299.3	r	SLOAN	1	1 x 1
158831	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.278	180.0	03:54:43.3	299.3	r	SLOAN	5	1 x 1
158832	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.278	180.0	03:54:43.3	299.3	r	SLOAN	3	1 x 1
158833	WFSNGC128	14:13:59.99	-00:00:00.0	J2000.00	1.278	180.0	03:54:43.3	299.3	r	SLOAN	4	1 x 1
158834	WFSNGC129	14:15:59.99	-00:00:00.0	J2000.00	1.304	180.0	04:05:22.6	298.6	r	SLOAN	1	1 x 1
158835	WFSNGC129	14:15:59.99	-00:00:00.0	J2000.00	1.304	180.0	04:05:22.6	298.6	r	SLOAN	5	1 x 1
158836	WFSNGC129	14:15:59.99	-00:00:00.0	J2000.00	1.304	180.0	04:05:22.6	298.6	r	SLOAN	3	1 x 1
158837	WFSNGC129	14:15:59.99	-00:00:00.0	J2000.00	1.304	180.0	04:05:22.6	298.6	r	SLOAN	4	1 x 1
158838	WFSNGC130	14:18:00.00	-00:00:00.0	J2000.00	1.334	180.0	04:15:54.5	359.7	r	SLOAN	1	1 x 1
158839	WFSNGC130	14:18:00.00	-00:00:00.0	J2000.00	1.334	180.0	04:15:54.5	359.7	r	SLOAN	5	1 x 1
158840	WFSNGC130	14:18:00.00	-00:00:00.0	J2000.00	1.334	180.0	04:15:54.5	359.7	r	SLOAN	3	1 x 1
158841	WFSNGC130	14:18:00.00	-00:00:00.0	J2000.00	1.334	180.0	04:15:54.5	359.7	r	SLOAN	4	1 x 1
158860	WFSNGC131	14:20:00.00	+00:00:00.0	J2000.00	1.382	180.0	04:30:29.3	359.7	r	SLOAN	1	1 x 1
158861	WFSNGC131	14:20:00.00	+00:00:00.0	J2000.00	1.382	180.0	04:30:29.3	359.7	r	SLOAN	5	1 x 1
158862	WFSNGC131	14:20:00.00	+00:00:00.0	J2000.00	1.382	180.0	04:30:29.3	359.7	r	SLOAN	3	1 x 1
158863	WFSNGC131	14:20:00.00	+00:00:00.0	J2000.00	1.382	180.0	04:30:29.3	359.7	r	SLOAN	4	1 x 1
158864	WFSNGC129	14:15:59.99	-00:00:00.0	J2000.00	1.452	180.0	04:42:18.1	299.8	r	SLOAN	1	1 x 1
158865	WFSNGC129	14:15:59.99	-00:00:00.0	J2000.00	1.452	180.0	04:42:18.1	299.8	r	SLOAN	5	1 x 1
158866	WFSNGC129	14:15:59.99	-00:00:00.0	J2000.00	1.452	180.0	04:42:18.1	299.8	r	SLOAN	3	1 x 1
158867	WFSNGC129	14:15:59.99	-00:00:00.0	J2000.00	1.452	180.0	04:42:18.1	299.8	r	SLOAN	4	1 x 1
158868	WFSNGC130	14:18:00.00	-00:00:00.0	J2000.00	1.499	180.0	04:53:15.3	299.7	r	SLOAN	1	1 x 1
158869	WFSNGC130	14:18:00.00	-00:00:00.0	J2000.00	1.499	180.0	04:53:15.3	299.7	r	SLOAN	5	1 x 1
158870	WFSNGC130	14:18:00.00	-00:00:00.0	J2000.00	1.499	180.0	04:53:15.3	299.7	r	SLOAN	3	1 x 1
158871	WFSNGC130	14:18:00.00	-00:00:00.0	J2000.00	1.499	180.0	04:53:15.3	299.7	r	SLOAN	4	1 x 1
158872	WFSNGC131	14:19:59.99	+00:00:00.0	J2000.00	1.553	180.0	05:03:49.7	359.7	r	SLOAN	1	1 x 1
158873	WFSNGC131	14:19:59.99	+00:00:00.0	J2000.00	1.553	180.0	05:03:49.7	359.7	r	SLOAN	5	1 x 1
158874	WFSNGC131	14:19:59.99	+00:00:00.0	J2000.00	1.553	180.0	05:03:49.7	359.7	r	SLOAN	3	1 x 1
158875	WFSNGC131	14:19:59.99	+00:00:00.0	J2000.00	1.553	180.0	05:03:49.7	359.7	r	SLOAN	4	1 x 1
158876	WFSNGC132	14:22:00.00	-00:00:00.0	J2000.00	1.615	180.0	05:15:09.6	359.7	r	SLOAN	1	1 x 1
158877	WFSNGC132	14:22:00.00	-00:00:00.0	J2000.00	1.615	180.0	05:15:09.6	359.7	r	SLOAN	5	1 x 1
158878	WFSNGC132	14:22:00.00	-00:00:00.0	J2000.00	1.615	180.0	05:15:09.6	359.7	r	SLOAN	3	1 x 1
158879	WFSNGC132	14:22:00.00	-00:00:00.0	J2000.00	1.615	180.0	05:15:09.6	359.7	r	SLOAN	4	1 x 1
158880	WFSNGC132	14:22:00.00	+00:00:00.0	J2000.00	1.699	180.0	05:26:12.2	359.7	r	SLOAN	1	1 x 1
158881	WFSNGC132	14:22:00.00	+00:00:00.0	J2000.00	1.699	180.0	05:26:12.2	359.7	r	SLOAN	5	1 x 1
158882	WFSNGC132	14:22:00.00	+00:00:00.0	J2000.00	1.699	180.0	05:26:12.2	359.7	r	SLOAN	3	1 x 1
158883	WFSNGC132	14:22:00.00	+00:00:00.0	J2000.00	1.699	180.0	05:26:12.2	359.7	r	SLOAN	4	1 x 1

158884	SA107-602	15:39:19.00	-00:15:29.0	J2000.00	1.333	180.0	05:38:27.2	10.1	r	SLOAN	1	1 x 1
158885	SA107-602	15:39:19.00	-00:15:29.0	J2000.00	1.333	180.0	05:38:27.2	10.1	r	SLOAN	5	1 x 1
158886	SA107-602	15:39:19.00	-00:15:29.0	J2000.00	1.333	180.0	05:38:27.2	10.1	r	SLOAN	3	1 x 1
158887	SA107-602	15:39:19.00	-00:15:29.0	J2000.00	1.333	180.0	05:38:27.2	10.1	r	SLOAN	4	1 x 1
158888	SA107-602	15:39:19.00	-00:15:29.0	J2000.00	1.346	180.0	05:42:00.9	20.1	B	Kitt Peak	1	1 x 1
158889	SA107-602	15:39:19.00	-00:15:29.0	J2000.00	1.346	180.0	05:42:00.9	20.1	B	Kitt Peak	5	1 x 1
158890	SA107-602	15:39:19.00	-00:15:29.0	J2000.00	1.346	180.0	05:42:00.9	20.1	B	Kitt Peak	3	1 x 1
158891	SA107-602	15:39:19.00	-00:15:29.0	J2000.00	1.346	180.0	05:42:00.9	20.1	B	Kitt Peak	4	1 x 1
158892	SA110-361	18:42:45.00	+00:08:04.0	J2000.00	1.167	180.0	05:47:17.6	20.1	B	Kitt Peak	1	1 x 1
158893	SA110-361	18:42:45.00	+00:08:04.0	J2000.00	1.167	180.0	05:47:17.6	20.1	B	Kitt Peak	5	1 x 1
158894	SA110-361	18:42:45.00	+00:08:04.0	J2000.00	1.167	180.0	05:47:17.6	20.1	B	Kitt Peak	3	1 x 1
158895	SA110-361	18:42:45.00	+00:08:04.0	J2000.00	1.167	180.0	05:47:17.6	20.1	B	Kitt Peak	4	1 x 1
158896	SA110-361	18:42:45.00	+00:08:04.0	J2000.00	1.163	180.0	05:51:11.7	10.0	r	SLOAN	1	1 x 1
158897	SA110-361	18:42:45.00	+00:08:04.0	J2000.00	1.163	180.0	05:51:11.7	10.0	r	SLOAN	5	1 x 1
158898	SA110-361	18:42:45.00	+00:08:04.0	J2000.00	1.163	180.0	05:51:11.7	10.0	r	SLOAN	3	1 x 1
158899	SA110-361	18:42:45.00	+00:08:04.0	J2000.00	1.163	180.0	05:51:11.7	10.0	r	SLOAN	4	1 x 1
158900	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.081	180.0	06:09:48.2	120.0	B	Kitt Peak	1	1 x 1
158901	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.081	180.0	06:09:48.2	120.0	B	Kitt Peak	5	1 x 1
158902	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.081	180.0	06:09:48.2	120.0	B	Kitt Peak	3	1 x 1
158903	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.081	180.0	06:09:48.2	120.0	B	Kitt Peak	4	1 x 1
158904	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.076	180.0	06:14:55.8	50.0	B	Kitt Peak	1	1 x 1
158905	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.076	180.0	06:14:55.8	50.0	B	Kitt Peak	5	1 x 1
158906	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.076	180.0	06:14:55.8	50.0	B	Kitt Peak	3	1 x 1
158907	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.076	180.0	06:14:55.8	50.0	B	Kitt Peak	4	1 x 1
158908	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.071	180.0	06:19:22.7	24.6	r	SLOAN	1	1 x 1
158909	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.071	180.0	06:19:22.7	24.6	r	SLOAN	5	1 x 1
158910	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.071	180.0	06:19:22.7	24.6	r	SLOAN	3	1 x 1
158911	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.071	180.0	06:19:22.7	24.6	r	SLOAN	4	1 x 1
158912	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.068	180.0	06:22:58.5	10.1	r	SLOAN	1	1 x 1
158913	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.068	180.0	06:22:58.5	10.1	r	SLOAN	5	1 x 1
158914	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.068	180.0	06:22:58.5	10.1	r	SLOAN	3	1 x 1
158915	Flat field	19:19:09.00	+12:22:04.9	B1950.00	1.068	180.0	06:22:58.5	10.1	r	SLOAN	4	1 x 1