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INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE:              INT
DATE:                   1999 Feb 11/12
INT TAPE NR:            INTD3952-53
OBSERVER:               Gavin Dalton/Jane Booth
PROGRAMME:              Oxford UBVRIZ deep survey
PATT/CAT:               WFS 16
TELESCOPE OPERATOR:     Jose Norberto
SUPPORT ASTRONOMER:     -------

FOCUS:                  PRIME
INSTRUMENT:             WFC
FILTER WHEEL (PF):      KP, U, SI, R, V, 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):     02.2            (FIRST HALF)
OUTSIDE TEMP (deg C):     02.6            (SECOND HALF)
HUMIDITY (%):             63              (FIRST HALF)
HUMIDITY (%):             60              (SECOND HALF)
CLOUD COVER (%):          00              (FIRST HALF)
CLOUD COVER (%):          00              (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
22:30  035  75  46.03  0.19       02.4   63     03.2   58     1.3      filter KP  TC 0.19
01:30  359  77  46.03  0.23       02.1   66     03.2   59     1.2      filter V   TC 0.23
)2:30  310  68  46.03  0.23       03.0   56     02.7   57     1.3      filter KP  TC 0.23
04:30  304  41  46.04  0.32       01.9   66     01.6   65     1.4      filter Z   TC 0.32
06:30  201  66  46.04  0.32       02.0   61     02.4   58     1.5      filter V   TC 0.23

DARK HOURS:             10:16
DOME OPEN (UTC):        18:30
MOON PHASE (D/G/B):         B
DK HRS LOST (WEATHER):01:20
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:
Dome closed a couple of times due to local clouds.
Run no. Object name             RA         Dec.     Equinox    AM    PA     UT       Exp. T.   Filter      Psys Channel  Binning Comments
 148100 Bias frame                                                      13:43:42.5      0.0         I Sloan Gunn    1      1 x 1
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148101	Bias frame						13:43:42.5	0.0	I	Sloan Gunn	5	1 x 1	
148102	Bias frame						13:43:42.5	0.0	I	Sloan Gunn	3	1 x 1	
148103	Bias frame						13:43:42.5	0.0	I	Sloan Gunn	4	1 x 1	Afternoon tests
148112	Bias frame	0:00:00.00	+00:00:00.0	A	4.445	180.0	15:03:32.5	0.0	R	Harris	1	1 x 1	
148113	Bias frame	0:00:00.00	+00:00:00.0	A	4.445	180.0	15:03:32.5	0.0	R	Harris	5	1 x 1	
148114	Bias frame	0:00:00.00	+00:00:00.0	A	4.445	180.0	15:03:32.5	0.0	R	Harris	3	1 x 1	
148115	Bias frame	0:00:00.00	+00:00:00.0	A	4.445	180.0	15:03:32.5	0.0	R	Harris	4	1 x 1	Afternoon tests
148116	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:13:33.0	0.0	I	Sloan Gunn	1	1 x 1	
148117	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:13:33.0	0.0	I	Sloan Gunn	5	1 x 1	
148118	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:13:33.0	0.0	I	Sloan Gunn	3	1 x 1	
148119	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:13:33.0	0.0	I	Sloan Gunn	4	1 x 1	
148120	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:16:24.2	0.0	I	Sloan Gunn	1	1 x 1	
148121	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:16:24.2	0.0	I	Sloan Gunn	5	1 x 1	
148122	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:16:24.2	0.0	I	Sloan Gunn	3	1 x 1	
148123	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:16:24.2	0.0	I	Sloan Gunn	4	1 x 1	
148124	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:19:15.5	0.0	I	Sloan Gunn	1	1 x 1	
148125	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:19:15.5	0.0	I	Sloan Gunn	5	1 x 1	
148126	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:19:15.5	0.0	I	Sloan Gunn	3	1 x 1	
148127	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:19:15.5	0.0	I	Sloan Gunn	4	1 x 1	
148128	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:22:06.6	0.0	I	Sloan Gunn	1	1 x 1	
148129	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:22:06.6	0.0	I	Sloan Gunn	5	1 x 1	
148130	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:22:06.6	0.0	I	Sloan Gunn	3	1 x 1	
148131	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:22:06.6	0.0	I	Sloan Gunn	4	1 x 1	
148132	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:24:57.6	0.0	I	Sloan Gunn	1	1 x 1	
148133	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:24:57.6	0.0	I	Sloan Gunn	5	1 x 1	
148134	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:24:57.6	0.0	I	Sloan Gunn	3	1 x 1	
148135	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:24:57.6	0.0	I	Sloan Gunn	4	1 x 1	
148136	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:27:48.7	0.0	I	Sloan Gunn	1	1 x 1	
148137	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:27:48.7	0.0	I	Sloan Gunn	5	1 x 1	
148138	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:27:48.7	0.0	I	Sloan Gunn	3	1 x 1	
148139	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:27:48.7	0.0	I	Sloan Gunn	4	1 x 1	
148140	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:30:39.4	0.0	I	Sloan Gunn	1	1 x 1	
148141	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:30:39.4	0.0	I	Sloan Gunn	5	1 x 1	
148142	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:30:39.4	0.0	I	Sloan Gunn	3	1 x 1	
148143	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:30:39.4	0.0	I	Sloan Gunn	4	1 x 1	
148144	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:33:28.9	0.0	I	Sloan Gunn	1	1 x 1	
148145	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:33:28.9	0.0	I	Sloan Gunn	5	1 x 1	
148146	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:33:28.9	0.0	I	Sloan Gunn	3	1 x 1	
148147	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:33:28.9	0.0	I	Sloan Gunn	4	1 x 1	
148148	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:36:20.4	0.0	I	Sloan Gunn	1	1 x 1	
148149	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:36:20.4	0.0	I	Sloan Gunn	5	1 x 1	
148150	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:36:20.4	0.0	I	Sloan Gunn	3	1 x 1	
148151	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:36:20.4	0.0	I	Sloan Gunn	4	1 x 1	
148152	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:39:11.1	0.0	I	Sloan Gunn	1	1 x 1	
148153	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:39:11.1	0.0	I	Sloan Gunn	5	1 x 1	
148154	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:39:11.1	0.0	I	Sloan Gunn	3	1 x 1	
148155	Bias frame	0:00:00.00	+00:00:00.0	A	4.455	180.0	16:39:11.1	0.0	I	Sloan Gunn	4	1 x 1	
148156	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.127	180.0	19:18:16.9	2.6	z	Gunn	1	1 x 1	
148157	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.127	180.0	19:18:16.9	2.6	z	Gunn	5	1 x 1	
148158	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.127	180.0	19:18:16.9	2.6	z	Gunn	3	1 x 1	
148159	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.127	180.0	19:18:16.9	2.6	z	Gunn	4	1 x 1	
148160	Flat field	4:25:47.14	+54:09:13.0	B1950.00	1.125	180.0	19:21:41.4	5.6	z	Gunn	1	1 x 1	
148161	Flat field	4:25:47.14	+54:09:13.0	B1950.00	1.125	180.0	19:21:41.4	5.6	z	Gunn	5	1 x 1	
148162	Flat field	4:25:47.14	+54:09:13.0	B1950.00	1.125	180.0	19:21:41.4	5.6	z	Gunn	3	1 x 1	
148163	Flat field	4:25:47.14	+54:09:13.0	B1950.00	1.125	180.0	19:21:41.4	5.6	z	Gunn	4	1 x 1	
148168	Flat field	4:25:44.86	+54:08:53.0	B1950.00	1.123	180.0	19:25:13.2	23.1	z	Gunn	1	1 x 1	
148169	Flat field	4:25:44.86	+54:08:53.0	B1950.00	1.123	180.0	19:25:13.2	23.1	z	Gunn	5	1 x 1	
148170	Flat field	4:25:44.86	+54:08:53.0	B1950.00	1.123	180.0	19:25:13.2	23.1	z	Gunn	3	1 x 1	
148171	Flat field	4:25:44.86	+54:08:53.0	B1950.00	1.123	180.0	19:25:13.2	23.1	z	Gunn	4	1 x 1	
148172	Flat field	4:25:45.99	+54:09:02.9	B1950.00	1.117	180.0	19:36:21.1	78.2	Unknown	Unknown	1	1 x 1	
148173	Flat field	4:25:45.99	+54:09:02.9	B1950.00	1.117	180.0	19:36:21.1	78.2	Unknown	Unknown	5	1 x 1	
148174	Flat field	4:25:45.99	+54:09:02.9	B1950.00	1.117	180.0	19:36:21.1	78.2	Unknown	Unknown	3	1 x 1	

148175	Flat field	4:25:45.99	+54:09:02.9	B1950.00	1.117	180.0	19:36:21.1	78.2	Unknown	Unknown	4	1 x 1	R filter
148176	Flat field	4:25:45.99	+54:09:03.0	B1950.00	1.114	180.0	19:41:27.5	218.8	Unknown	Unknown	1	1 x 1	
148177	Flat field	4:25:45.99	+54:09:03.0	B1950.00	1.114	180.0	19:41:27.5	218.8	Unknown	Unknown	5	1 x 1	
148178	Flat field	4:25:45.99	+54:09:03.0	B1950.00	1.114	180.0	19:41:27.5	218.8	Unknown	Unknown	3	1 x 1	
148179	Flat field	4:25:45.99	+54:09:03.0	B1950.00	1.114	180.0	19:41:27.5	218.8	Unknown	Unknown	4	1 x 1	R filter
148180	Focus run	3:53:24.99	+00:04:02.9	J2000.00	1.146	180.0	20:03:59.9	5.1	R	Harris	1	1 x 1	
148181	Focus run	3:53:24.99	+00:04:02.9	J2000.00	1.146	180.0	20:03:59.9	5.1	R	Harris	5	1 x 1	
148182	Focus run	3:53:24.99	+00:04:02.9	J2000.00	1.146	180.0	20:03:59.9	5.1	R	Harris	3	1 x 1	
148183		3:53:24.99	+00:04:02.9	J2000.00	1.146	180.0	20:03:59.9	5.1	R	Harris	4	1 x 1	
148184	SA95-107R	3:53:25.00	+00:02:17.9	J2000.00	1.151	180.0	20:11:14.9	10.1	R	Harris	1	1 x 1	
148185	SA95-107R	3:53:25.00	+00:02:17.9	J2000.00	1.151	180.0	20:11:14.9	10.1	R	Harris	5	1 x 1	
148186	SA95-107R	3:53:25.00	+00:02:17.9	J2000.00	1.151	180.0	20:11:14.9	10.1	R	Harris	3	1 x 1	
148187	SA95-107R	3:53:25.00	+00:02:17.9	J2000.00	1.151	180.0	20:11:14.9	10.1	R	Harris	4	1 x 1	
148188	SA95-107R	3:53:25.00	+00:02:18.0	J2000.00	1.154	180.0	20:14:48.8	10.1	B	Kitt Peak	1	1 x 1	
148189	SA95-107R	3:53:25.00	+00:02:18.0	J2000.00	1.154	180.0	20:14:48.8	10.1	B	Kitt Peak	5	1 x 1	
148190	SA95-107R	3:53:25.00	+00:02:18.0	J2000.00	1.154	180.0	20:14:48.8	10.1	B	Kitt Peak	3	1 x 1	
148191	SA95-107R	3:53:25.00	+00:02:18.0	J2000.00	1.154	180.0	20:14:48.8	10.1	B	Kitt Peak	4	1 x 1	SA95-107B
148192	SA95-107V	3:53:25.00	+00:02:18.0	J2000.00	1.157	180.0	20:18:08.0	10.1	V	Harris	1	1 x 1	
148193	SA95-107V	3:53:25.00	+00:02:18.0	J2000.00	1.157	180.0	20:18:08.0	10.1	V	Harris	5	1 x 1	
148194	SA95-107V	3:53:25.00	+00:02:18.0	J2000.00	1.157	180.0	20:18:08.0	10.1	V	Harris	3	1 x 1	
148195	SA95-107V	3:53:25.00	+00:02:18.0	J2000.00	1.157	180.0	20:18:08.0	10.1	V	Harris	4	1 x 1	
148196	SA95-107I	3:53:25.00	+00:02:18.0	J2000.00	1.160	180.0	20:21:20.9	10.1	I	Sloan Gunn	1	1 x 1	
148197	SA95-107I	3:53:25.00	+00:02:18.0	J2000.00	1.160	180.0	20:21:20.9	10.1	I	Sloan Gunn	5	1 x 1	
148198	SA95-107I	3:53:25.00	+00:02:18.0	J2000.00	1.160	180.0	20:21:20.9	10.1	I	Sloan Gunn	3	1 x 1	
148199	SA95-107I	3:53:25.00	+00:02:18.0	J2000.00	1.160	180.0	20:21:20.9	10.1	I	Sloan Gunn	4	1 x 1	
148212	H067 Z	9:14:22.33	+40:46:44.2	J2000.00	1.647	180.0	20:39:16.4	599.5	z	Gunn	1	1 x 1	
148213	H067 Z	9:14:22.33	+40:46:44.2	J2000.00	1.647	180.0	20:39:16.4	599.5	z	Gunn	5	1 x 1	
148214	H067 Z	9:14:22.33	+40:46:44.2	J2000.00	1.647	180.0	20:39:16.4	599.5	z	Gunn	3	1 x 1	
148215	H067 Z	9:14:22.33	+40:46:44.2	J2000.00	1.647	180.0	20:39:16.4	599.5	z	Gunn	4	1 x 1	
148216	H067 I	9:14:22.33	+40:46:44.3	J2000.00	1.536	180.0	20:52:25.3	1099.0	I	Sloan Gunn	1	1 x 1	
148217	H067 I	9:14:22.33	+40:46:44.3	J2000.00	1.536	180.0	20:52:25.3	1099.0	I	Sloan Gunn	5	1 x 1	
148218	H067 I	9:14:22.33	+40:46:44.3	J2000.00	1.536	180.0	20:52:25.3	1099.0	I	Sloan Gunn	3	1 x 1	
148219	H067 I	9:14:22.33	+40:46:44.3	J2000.00	1.536	180.0	20:52:25.3	1099.0	I	Sloan Gunn	4	1 x 1	
148220	H067 I	9:14:22.33	+40:46:44.1	J2000.00	1.415	180.0	21:15:33.6	1098.9	I	Sloan Gunn	1	1 x 1	
148221	H067 I	9:14:22.33	+40:46:44.1	J2000.00	1.415	180.0	21:15:33.6	1098.9	I	Sloan Gunn	5	1 x 1	
148222	H067 I	9:14:22.33	+40:46:44.1	J2000.00	1.415	180.0	21:15:33.6	1098.9	I	Sloan Gunn	3	1 x 1	
148223	H067 I	9:14:22.33	+40:46:44.1	J2000.00	1.415	180.0	21:15:33.6	1098.9	I	Sloan Gunn	4	1 x 1	
148224	H067 I	9:14:22.32	+40:46:44.2	J2000.00	1.305	180.0	21:42:14.7	1098.9	I	Sloan Gunn	1	1 x 1	
148225	H067 I	9:14:22.32	+40:46:44.2	J2000.00	1.305	180.0	21:42:14.7	1098.9	I	Sloan Gunn	5	1 x 1	
148226	H067 I	9:14:22.32	+40:46:44.2	J2000.00	1.305	180.0	21:42:14.7	1098.9	I	Sloan Gunn	3	1 x 1	
148227	H067 I	9:14:22.32	+40:46:44.2	J2000.00	1.305	180.0	21:42:14.7	1098.9	I	Sloan Gunn	4	1 x 1	Slight AG glitch
148232	H067 R	9:14:22.33	+40:46:44.2	J2000.00	1.213	180.0	22:10:21.6	1198.9	R	Harris	1	1 x 1	
148233	H067 R	9:14:22.33	+40:46:44.2	J2000.00	1.213	180.0	22:10:21.6	1198.9	R	Harris	5	1 x 1	
148234	H067 R	9:14:22.33	+40:46:44.2	J2000.00	1.213	180.0	22:10:21.6	1198.9	R	Harris	3	1 x 1	
148235	H067 R	9:14:22.33	+40:46:44.2	J2000.00	1.213	180.0	22:10:21.6	1198.9	R	Harris	4	1 x 1	
148236	H067 R	9:14:22.33	+40:46:44.1	J2000.00	1.153	180.0	22:35:10.5	1198.5	R	Harris	1	1 x 1	
148237	H067 R	9:14:22.33	+40:46:44.1	J2000.00	1.153	180.0	22:35:10.5	1198.5	R	Harris	5	1 x 1	
148238	H067 R	9:14:22.33	+40:46:44.1	J2000.00	1.153	180.0	22:35:10.5	1198.5	R	Harris	3	1 x 1	
148239	H067 R	9:14:22.33	+40:46:44.1	J2000.00	1.153	180.0	22:35:10.5	1198.5	R	Harris	4	1 x 1	
148240	H067 R	9:14:22.32	+40:46:44.5	J2000.00	1.109	180.0	22:58:19.5	1198.9	R	Harris	1	1 x 1	
148241	H067 R	9:14:22.32	+40:46:44.5	J2000.00	1.109	180.0	22:58:19.5	1198.9	R	Harris	5	1 x 1	
148242	H067 R	9:14:22.32	+40:46:44.5	J2000.00	1.109	180.0	22:58:19.5	1198.9	R	Harris	3	1 x 1	
148243	H067 R	9:14:22.32	+40:46:44.5	J2000.00	1.109	180.0	22:58:19.5	1198.9	R	Harris	4	1 x 1	Slight Drift
148244	H067 B	9:14:22.33	+40:46:44.2	J2000.00	1.071	180.0	23:27:59.8	899.1	B	Kitt Peak	1	1 x 1	
148245	H067 B	9:14:22.33	+40:46:44.2	J2000.00	1.071	180.0	23:27:59.8	899.1	B	Kitt Peak	5	1 x 1	
148246	H067 B	9:14:22.33	+40:46:44.2	J2000.00	1.071	180.0	23:27:59.8	899.1	B	Kitt Peak	3	1 x 1	
148247	H067 B	9:14:22.33	+40:46:44.2	J2000.00	1.071	180.0	23:27:59.8	899.1	B	Kitt Peak	4	1 x 1	
148248	H067 B	9:14:22.33	+40:46:44.3	J2000.00	1.052	180.0	23:46:11.8	899.0	B	Kitt Peak	1	1 x 1	
148249	H067 B	9:14:22.33	+40:46:44.3	J2000.00	1.052	180.0	23:46:11.8	899.0	B	Kitt Peak	5	1 x 1	
148250	H067 B	9:14:22.33	+40:46:44.3	J2000.00	1.052	180.0	23:46:11.8	899.0	B	Kitt Peak	3	1 x 1	
148251	H067 B	9:14:22.33	+40:46:44.3	J2000.00	1.052	180.0	23:46:11.8	899.0	B	Kitt Peak	4	1 x 1	
148252	H067 B	9:14:22.33	+40:46:44.4	J2000.00	1.038	180.0	00:04:11.4	899.2	B	Kitt Peak	1	1 x 1	

148253	H067 B	9:14:22.33	+40:46:44.4	J2000.00	1.038	180.0	00:04:11.4	899.2	B	Kitt Peak	5	1 x 1	
148254	H067 B	9:14:22.33	+40:46:44.4	J2000.00	1.038	180.0	00:04:11.4	899.2	B	Kitt Peak	3	1 x 1	
148255	H067 B	9:14:22.33	+40:46:44.4	J2000.00	1.038	180.0	00:04:11.4	899.2	B	Kitt Peak	4	1 x 1	
148256	H067 V	9:14:22.33	+40:46:44.1	J2000.00	1.028	180.0	00:23:29.6	999.0	V	Harris	1	1 x 1	
148257	H067 V	9:14:22.33	+40:46:44.1	J2000.00	1.028	180.0	00:23:29.6	999.0	V	Harris	5	1 x 1	
148258	H067 V	9:14:22.33	+40:46:44.1	J2000.00	1.028	180.0	00:23:29.6	999.0	V	Harris	3	1 x 1	
148259	H067 V	9:14:22.33	+40:46:44.1	J2000.00	1.028	180.0	00:23:29.6	999.0	V	Harris	4	1 x 1	
148260	H067 V	9:14:22.33	+40:46:44.1	J2000.00	1.023	180.0	00:43:21.1	999.0	V	Harris	1	1 x 1	
148261	H067 V	9:14:22.33	+40:46:44.1	J2000.00	1.023	180.0	00:43:21.1	999.0	V	Harris	5	1 x 1	
148262	H067 V	9:14:22.33	+40:46:44.1	J2000.00	1.023	180.0	00:43:21.1	999.0	V	Harris	3	1 x 1	
148263	H067 V	9:14:22.33	+40:46:44.1	J2000.00	1.023	180.0	00:43:21.1	999.0	V	Harris	4	1 x 1	
148264	H067 V	9:14:22.33	+40:46:44.4	J2000.00	1.024	180.0	01:03:21.5	999.0	V	Harris	1	1 x 1	
148265	H067 V	9:14:22.33	+40:46:44.4	J2000.00	1.024	180.0	01:03:21.5	999.0	V	Harris	5	1 x 1	
148266	H067 V	9:14:22.33	+40:46:44.4	J2000.00	1.024	180.0	01:03:21.5	999.0	V	Harris	3	1 x 1	
148267	H067 V	9:14:22.33	+40:46:44.4	J2000.00	1.024	180.0	01:03:21.5	999.0	V	Harris	4	1 x 1	
148268	H055 B	9:13:44.93	+41:15:32.3	J2000.00	1.084	360.0	02:24:02.0	899.1	B	Kitt Peak	1	1 x 1	
148269	H055 B	9:13:44.93	+41:15:32.3	J2000.00	1.084	360.0	02:24:02.0	899.1	B	Kitt Peak	5	1 x 1	
148270	H055 B	9:13:44.93	+41:15:32.3	J2000.00	1.084	360.0	02:24:02.0	899.1	B	Kitt Peak	3	1 x 1	
148271	H055 B	9:13:44.93	+41:15:32.3	J2000.00	1.084	360.0	02:24:02.0	899.1	B	Kitt Peak	4	1 x 1	
148272	H055 B	9:13:44.93	+41:15:32.5	J2000.00	1.111	360.0	02:42:29.8	899.2	B	Kitt Peak	1	1 x 1	
148273	H055 B	9:13:44.93	+41:15:32.5	J2000.00	1.111	360.0	02:42:29.8	899.2	B	Kitt Peak	5	1 x 1	
148274	H055 B	9:13:44.93	+41:15:32.5	J2000.00	1.111	360.0	02:42:29.8	899.2	B	Kitt Peak	3	1 x 1	
148275	H055 B	9:13:44.93	+41:15:32.5	J2000.00	1.111	360.0	02:42:29.8	899.2	B	Kitt Peak	4	1 x 1	
148276	H055 B	9:13:44.93	+41:15:32.3	J2000.00	1.145	360.0	03:00:38.6	899.3	B	Kitt Peak	1	1 x 1	
148277	H055 B	9:13:44.93	+41:15:32.3	J2000.00	1.145	360.0	03:00:38.6	899.3	B	Kitt Peak	5	1 x 1	
148278	H055 B	9:13:44.93	+41:15:32.3	J2000.00	1.145	360.0	03:00:38.6	899.3	B	Kitt Peak	3	1 x 1	
148279	H055 B	9:13:44.93	+41:15:32.3	J2000.00	1.145	360.0	03:00:38.6	899.3	B	Kitt Peak	4	1 x 1	
148280	H055 V	9:13:44.93	+41:15:32.3	J2000.00	1.195	360.0	03:22:01.2	998.7	V	Harris	1	1 x 1	
148281	H055 V	9:13:44.93	+41:15:32.3	J2000.00	1.195	360.0	03:22:01.2	998.7	V	Harris	5	1 x 1	
148282	H055 V	9:13:44.93	+41:15:32.3	J2000.00	1.195	360.0	03:22:01.2	998.7	V	Harris	3	1 x 1	
148283	H055 V	9:13:44.93	+41:15:32.3	J2000.00	1.195	360.0	03:22:01.2	998.7	V	Harris	4	1 x 1	
148284	H055 V	9:13:44.93	+41:15:32.7	J2000.00	1.251	360.0	03:41:52.6	999.0	V	Harris	1	1 x 1	
148285	H055 V	9:13:44.93	+41:15:32.7	J2000.00	1.251	360.0	03:41:52.6	999.0	V	Harris	5	1 x 1	
148286	H055 V	9:13:44.93	+41:15:32.7	J2000.00	1.251	360.0	03:41:52.6	999.0	V	Harris	3	1 x 1	
148287	H055 V	9:13:44.93	+41:15:32.7	J2000.00	1.251	360.0	03:41:52.6	999.0	V	Harris	4	1 x 1	
148288	H055 V	4:36:52.46	+20:37:46.1	J2000.00	1.318	360.0	04:01:37.5	998.9	V	Harris	1	1 x 1	
148289	H055 V	4:36:52.46	+20:37:46.1	J2000.00	1.318	360.0	04:01:37.5	998.9	V	Harris	5	1 x 1	
148290	H055 V	4:36:52.46	+20:37:46.1	J2000.00	1.318	360.0	04:01:37.5	998.9	V	Harris	3	1 x 1	
148291	H055 V	4:36:52.46	+20:37:46.1	J2000.00	1.318	360.0	04:01:37.5	998.9	V	Harris	4	1 x 1	
148292	H055 Z	9:13:44.93	+41:15:32.3	J2000.00	1.387	360.0	04:22:07.9	599.4	z	Gunn	1	1 x 1	Shutter opened
148293	H055 Z	9:13:44.93	+41:15:32.3	J2000.00	1.387	360.0	04:22:07.9	599.4	z	Gunn	5	1 x 1	during readout,
148294	H055 Z	9:13:44.93	+41:15:32.3	J2000.00	1.387	360.0	04:22:07.9	599.4	z	Gunn	3	1 x 1	BY AG system
148295	H055 Z	9:13:44.93	+41:15:32.3	J2000.00	1.387	360.0	04:22:07.9	599.4	z	Gunn	4	1 x 1	AG opened
148300	H055 Z	9:13:44.93	+41:15:32.3	J2000.00	1.467	360.0	04:39:00.6	599.1	z	Gunn	1	1 x 1	
148301	H055 Z	9:13:44.93	+41:15:32.3	J2000.00	1.467	360.0	04:39:00.6	599.1	z	Gunn	5	1 x 1	
148302	H055 Z	9:13:44.93	+41:15:32.3	J2000.00	1.467	360.0	04:39:00.6	599.1	z	Gunn	3	1 x 1	
148303	H055 Z	9:13:44.93	+41:15:32.3	J2000.00	1.467	360.0	04:39:00.6	599.1	z	Gunn	4	1 x 1	
148304	J028 R	16:37:41.30	+46:22:22.2	J2000.00	1.339	360.0	04:56:45.7	1198.9	R	Harris	1	1 x 1	
148305	J028 R	16:37:41.30	+46:22:22.2	J2000.00	1.339	360.0	04:56:45.7	1198.9	R	Harris	5	1 x 1	
148306	J028 R	16:37:41.30	+46:22:22.2	J2000.00	1.339	360.0	04:56:45.7	1198.9	R	Harris	3	1 x 1	
148307	J028 R	16:37:41.30	+46:22:22.2	J2000.00	1.339	360.0	04:56:45.7	1198.9	R	Harris	4	1 x 1	
148308	J028 R	16:37:41.29	+46:22:22.3	J2000.00	1.263	360.0	05:20:27.4	1198.8	R	Harris	1	1 x 1	
148309	J028 R	16:37:41.29	+46:22:22.3	J2000.00	1.263	360.0	05:20:27.4	1198.8	R	Harris	5	1 x 1	
148310	J028 R	16:37:41.29	+46:22:22.3	J2000.00	1.263	360.0	05:20:27.4	1198.8	R	Harris	3	1 x 1	
148311	J028 R	16:37:41.29	+46:22:22.3	J2000.00	1.263	360.0	05:20:27.4	1198.8	R	Harris	4	1 x 1	
148312	J028 I	16:37:41.29	+46:22:22.2	J2000.00	1.199	360.0	05:46:02.0	1098.9	I	Sloan Gunn	1	1 x 1	
148313	J028 I	16:37:41.29	+46:22:22.2	J2000.00	1.199	360.0	05:46:02.0	1098.9	I	Sloan Gunn	5	1 x 1	
148314	J028 I	16:37:41.29	+46:22:22.2	J2000.00	1.199	360.0	05:46:02.0	1098.9	I	Sloan Gunn	3	1 x 1	
148315	J028 I	16:37:41.29	+46:22:22.2	J2000.00	1.199	360.0	05:46:02.0	1098.9	I	Sloan Gunn	4	1 x 1	
148316	J028 I	16:37:41.29	+46:22:21.9	J2000.00	1.155	360.0	06:07:45.6	1098.9	I	Sloan Gunn	1	1 x 1	
148317	J028 I	16:37:41.29	+46:22:21.9	J2000.00	1.155	360.0	06:07:45.6	1098.9	I	Sloan Gunn	5	1 x 1	
148318	J028 I	16:37:41.29	+46:22:21.9	J2000.00	1.155	360.0	06:07:45.6	1098.9	I	Sloan Gunn	3	1 x 1	

148319	J028 I	16:37:41.29	+46:22:21.9	J2000.00	1.155	360.0	06:07:45.6	1098.9	I Sloan	Gunn	4	1 x 1	
148320	J028 I	8:18:50.65	+23:11:11.1	J2000.00	1.120	360.0	06:29:10.3	1098.9	I Sloan	Gunn	1	1 x 1	twilight
148321	J028 I	8:18:50.65	+23:11:11.1	J2000.00	1.120	360.0	06:29:10.3	1098.9	I Sloan	Gunn	5	1 x 1	
148322	J028 I	8:18:50.65	+23:11:11.1	J2000.00	1.120	360.0	06:29:10.3	1098.9	I Sloan	Gunn	3	1 x 1	
148323	J028 I	8:18:50.65	+23:11:11.1	J2000.00	1.120	360.0	06:29:10.3	1098.9	I Sloan	Gunn	4	1 x 1	starts in
148324	J028 Z	16:37:41.30	+46:22:22.2	J2000.00	1.097	360.0	06:51:04.3	599.5	z	Gunn	1	1 x 1	
148325	J028 Z	16:37:41.30	+46:22:22.2	J2000.00	1.097	360.0	06:51:04.3	599.5	z	Gunn	5	1 x 1	
148326	J028 Z	16:37:41.30	+46:22:22.2	J2000.00	1.097	360.0	06:51:04.3	599.5	z	Gunn	3	1 x 1	
148327	J028 Z	16:37:41.30	+46:22:22.2	J2000.00	1.097	360.0	06:51:04.3	599.5	z	Gunn	4	1 x 1	
148328	Flat field	13:04:32.99	+29:50:49.0	B1950.00	1.172	360.0	07:14:49.4	63.2	I Sloan	Gunn	1	1 x 1	
148329	Flat field	13:04:32.99	+29:50:49.0	B1950.00	1.172	360.0	07:14:49.4	63.2	I Sloan	Gunn	5	1 x 1	
148330	Flat field	13:04:32.99	+29:50:49.0	B1950.00	1.172	360.0	07:14:49.4	63.2	I Sloan	Gunn	3	1 x 1	
148331	Flat field	13:04:32.99	+29:50:49.0	B1950.00	1.172	360.0	07:14:49.4	63.2	I Sloan	Gunn	4	1 x 1	
148332	Flat field	13:04:33.76	+29:50:59.0	B1950.00	1.182	360.0	07:19:05.4	28.3	I Sloan	Gunn	1	1 x 1	
148333	Flat field	13:04:33.76	+29:50:59.0	B1950.00	1.182	360.0	07:19:05.4	28.3	I Sloan	Gunn	5	1 x 1	
148334	Flat field	13:04:33.76	+29:50:59.0	B1950.00	1.182	360.0	07:19:05.4	28.3	I Sloan	Gunn	3	1 x 1	
148335	Flat field	13:04:33.76	+29:50:59.0	B1950.00	1.182	360.0	07:19:05.4	28.3	I Sloan	Gunn	4	1 x 1	
148336	Flat field	13:04:32.23	+29:50:59.0	B1950.00	1.193	360.0	07:22:44.9	11.7	I Sloan	Gunn	1	1 x 1	
148337	Flat field	13:04:32.23	+29:50:59.0	B1950.00	1.193	360.0	07:22:44.9	11.7	I Sloan	Gunn	5	1 x 1	
148338	Flat field	13:04:32.23	+29:50:59.0	B1950.00	1.193	360.0	07:22:44.9	11.7	I Sloan	Gunn	3	1 x 1	
148339	Flat field	13:04:32.23	+29:50:59.0	B1950.00	1.193	360.0	07:22:44.9	11.7	I Sloan	Gunn	4	1 x 1	
148340	Flat field	13:04:32.23	+29:50:39.0	B1950.00	1.204	360.0	07:26:40.6	4.2	I Sloan	Gunn	1	1 x 1	
148341	Flat field	13:04:32.23	+29:50:39.0	B1950.00	1.204	360.0	07:26:40.6	4.2	I Sloan	Gunn	5	1 x 1	
148342	Flat field	13:04:32.23	+29:50:39.0	B1950.00	1.204	360.0	07:26:40.6	4.2	I Sloan	Gunn	3	1 x 1	
148343	Flat field	13:04:32.23	+29:50:39.0	B1950.00	1.204	360.0	07:26:40.6	4.2	I Sloan	Gunn	4	1 x 1	
148344	Flat field	13:04:33.76	+29:50:38.9	B1950.00	1.217	360.0	07:30:48.1	5.5	z	Gunn	1	1 x 1	
148345	Flat field	13:04:33.76	+29:50:38.9	B1950.00	1.217	360.0	07:30:48.1	5.5	z	Gunn	5	1 x 1	
148346	Flat field	13:04:33.76	+29:50:38.9	B1950.00	1.217	360.0	07:30:48.1	5.5	z	Gunn	3	1 x 1	
148347	Flat field	13:04:33.76	+29:50:38.9	B1950.00	1.217	360.0	07:30:48.1	5.5	z	Gunn	4	1 x 1	