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INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE:             INT
DATE:                  1999 Sep 02/ Sep 03
INT TAPE NR:           INTD 4169
OBSERVER:              M. Irwin
PROGRAMME:             WFS + M31
PATT/CAT:              WFS09
TELESCOPE OPERATOR:    M. Irwin
SUPPORT ASTRONOMER:    N. Walton

FOCUS:                 Prime
INSTRUMENT:            WFC
FILTER WHEEL (PF):     KP,g,r,i,z,U
CAMERA (IDS):          -
COLLIMATOR (IDS):      -
COLL. FOCUS (IDS):     -
GRATING (IDS):         -
DETECTOR:              EEV
PIXELS:                2048x4200
PIXEL SIZE (microns): 13.5
WINDOW:                Xstart=0, Xsize=2048, Ystart=0, Ysize=4200
BINNING:               in X=1, in Y=1

WEATHER:               Non-photometric intermittent low cloud
OUTSIDE TEMP (deg C):   14              (FIRST HALF)
OUTSIDE TEMP (deg C):   14              (SECOND HALF)
HUMIDITY (%):           30              (FIRST HALF)
HUMIDITY (%):           30              (SECOND HALF)
CLOUD COVER (%):        50              (FIRST HALF)
CLOUD COVER (%):        20              (SECOND HALF)
DUST (0 - 2):            0              (FIRST HALF)
DUST (0 - 2):            0              (SECOND HALF)
SEEING (arcsec):        0.9             (FIRST HALF)
SEEING (arcsec):        0.9             (SECOND HALF)
AV. SEEING (arcsec):    0.9
NO. SEEING MEASURES:    10

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

DARK HOURS:            08:36
DOME OPEN (UTC):       19:40
MOON PHASE (D/G/B):        G
DK HRS LOST (WEATHER):03:00
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:

Patchy cloud all night but fairly clear for long periods in between heavy cloud
cover.

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Run no. Object name              RA         Dec.     Equinox    AM    PA     UT       Exp. T.   Filter      Psys Channel  Binning Comments
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194115	Dome flat 1	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:16:46.9	1.4	r	Sloan
194116	Dome flat 2	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:17:55.0	2.1	r	Sloan
194117	Dome flat 3	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:19:00.3	3.1	r	Sloan
194118	Dome flat 4	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:20:07.3	4.1	r	Sloan
194119	Dome flat 5	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:21:14.7	5.1	r	Sloan
194120	Dome flat 6	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:22:23.3	6.1	r	Sloan
194121	Dome flat 7	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:23:32.7	6.7	r	Sloan
194122	Dome flat 8	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:24:42.9	8.1	r	Sloan
194123	Dome flat 9	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:25:54.4	9.1	r	Sloan
194124	Dome flat 10	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:27:06.9	10.1	r	Sloan
194125	Dome flat 11	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:28:21.5	10.6	r	Sloan
194126	Dome flat 12	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:29:36.1	12.0	r	Sloan
194127	Dome flat 13	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:30:52.6	13.1	r	Sloan
194128	Dome flat 14	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:32:08.8	14.1	r	Sloan
194129	Dome flat 15	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:33:25.6	14.6	r	Sloan
194130	Dome flat 16	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:34:43.6	15.6	r	Sloan
194131	Dome flat 17	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:36:03.6	17.1	r	Sloan
194132	Dome flat 18	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:37:24.2	18.1	r	Sloan
194133	Dome flat 19	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:38:45.5	18.6	r	Sloan
194134	Dome flat 20	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:40:09.5	20.1	r	Sloan
194135	Dome flat 21	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:41:33.2	21.1	r	Sloan
194136	Dome flat 22	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:42:57.6	22.1	r	Sloan
194137	Dome flat 23	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:44:23.2	23.1	r	Sloan
194138	Dome flat 24	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:45:49.7	24.1	r	Sloan
194139	Dome flat 25	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:47:17.6	25.1	r	Sloan
194140	Dome flat 26	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:48:45.7	25.6	r	Sloan
194141	Dome flat 27	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:50:15.7	27.1	r	Sloan
194142	Dome flat 28	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:51:46.3	28.1	r	Sloan
194143	Dome flat 29	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:53:18.2	29.1	r	Sloan
194144	Dome flat 30	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:54:50.8	30.1	r	Sloan
194145	Dome flat 31	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:56:24.4	31.1	r	Sloan
194146	Dome flat 32	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:57:59.0	32.1	r	Sloan
194147	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:15:37.5	0.0	r	Sloan
194148	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:17:07.1	0.0	r	Sloan
194149	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:19:24.8	0.0	r	Sloan
194150	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:20:12.1	0.0	r	Sloan
194151	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	19:20:59.3	0.0	r	Sloan
194152	Flat field	16:00:00.00	+40:00:00.0	J2000.00	1.071	179.7	19:51:47.7	2.1	U	RGO Lot of
194153	Flat field	16:00:02.61	+40:00:00.0	J2000.00	1.073	179.7	19:53:35.0	4.1	U	RGO cloud at
194154	Flat field	16:00:02.61	+40:00:29.9	J2000.00	1.075	179.7	19:54:58.6	7.1	U	RGO sunset
194155	Flat field	16:00:02.61	+40:00:30.0	J2000.00	1.078	179.7	19:57:25.0	14.1	z	Gunn
194156	Flat field	16:00:02.61	+40:00:30.0	J2000.00	1.081	179.7	19:59:32.8	5.8	i	Sloan
194157	Flat field	16:00:02.61	+40:00:30.0	J2000.00	1.083	179.7	20:01:08.7	6.3	g	Sloan
194158	Flat field	16:00:02.61	+40:00:00.0	J2000.00	1.086	179.7	20:02:60.1	10.1	g	Sloan
194159	Flat field	16:00:00.00	+39:59:59.9	J2000.00	1.088	179.7	20:04:34.8	15.1	g	Sloan
194160	Flat field	15:59:59.99	+39:59:59.9	J2000.00	1.092	179.7	20:06:34.7	40.3	r	Sloan
194161	Flat field	16:00:02.61	+40:00:00.0	J2000.00	1.097	179.7	20:10:14.3	60.1	r	Sloan
194167	Focus run	18:42:45.00	+00:10:04.0	J2000.00	1.141	179.7	21:24:41.8	10.1	g	Sloan
194172	Bias frame	22:00:00.00	-00:00:00.0	J2000.00	1.368	179.7	22:10:47.8	0.0	g	Sloan
194173	Bias frame	22:00:00.00	-00:00:00.0	J2000.00	1.365	179.7	22:11:35.3	0.0	g	Sloan
194174	Bias frame	22:00:00.00	-00:00:00.0	J2000.00	1.362	179.7	22:12:22.4	0.0	g	Sloan
194175	Bias frame	22:00:00.00	-00:00:00.0	J2000.00	1.359	179.7	22:13:09.5	0.0	g	Sloan
194176	Bias frame	22:00:00.00	-00:00:00.0	J2000.00	1.354	179.7	22:14:24.3	0.0	g	Sloan Cleared
194177	wfssgc006 g	22:10:00.00	+00:00:00.1	J2000.00	1.295	179.7	22:39:43.7	239.8	g	Sloan reasonable
194178	wfssgc007 g	22:11:59.99	+00:00:00.3	J2000.00	1.283	179.7	22:45:50.5	239.3	g	Sloan conditions
194179	wfssgc008 g	22:14:00.00	+00:00:00.1	J2000.00	1.271	179.7	22:51:56.8	238.2	g	Sloan
194180	wfssgc009 g	22:16:00.00	+00:00:00.1	J2000.00	1.259	179.7	22:58:19.9	239.7	g	Sloan
194181	wfssgc010 g	22:18:00.00	-00:00:00.0	J2000.00	1.249	179.7	23:04:27.4	239.9	g	Sloan
194182	wfssgc006 g	22:10:00.00	+00:00:00.1	J2000.00	1.217	179.7	23:10:47.3	239.8	g	Sloan
194183	wfssgc007 g	22:12:00.00	-00:00:00.0	J2000.00	1.209	179.7	23:17:07.8	239.8	g	Sloan
194184	wfssgc008 g	22:14:00.00	+00:00:00.1	J2000.00	1.201	179.7	23:23:37.0	239.8	g	Sloan
194185	wfssgc009 g	22:16:00.00	+00:00:00.0	J2000.00	1.194	179.7	23:29:47.6	239.8	g	Sloan

194186	wfssgc010	g	22:18:00.00	+00:00:00.0	J2000.00	1.188	179.7	23:35:56.9	239.9	g	Sloan	
194187	wfssgc031	g	23:00:00.00	+00:00:00.0	J2000.00	1.257	179.7	23:43:06.0	239.9	g	Sloan	
194188	wfssgc032	g	23:02:00.00	+00:00:00.1	J2000.00	1.246	179.7	23:49:30.3	239.8	g	Sloan	
194189	wfssgc033	g	23:04:00.00	+00:00:00.0	J2000.00	1.236	179.7	23:55:56.6	239.7	g	Sloan	
194190	wfssgc034	g	23:06:00.00	-00:00:00.0	J2000.00	1.226	179.7	00:02:19.4	239.9	g	Sloan	
194191	wfssgc035	g	23:08:00.00	+00:00:00.1	J2000.00	1.217	179.7	00:08:39.7	239.4	g	Sloan	
194192	sa113-163	U	21:42:35.00	+00:16:46.0	J2000.00	1.138	179.7	00:15:26.8	30.1	U	RGO	
194193	sa113-163	g	21:42:35.00	+00:16:45.9	J2000.00	1.138	179.7	00:17:16.7	10.1	g	Sloan	
194194	sa113-163	i	21:42:34.99	+00:16:46.0	J2000.00	1.139	179.7	00:18:46.2	10.1	i	Sloan	
194195	sa113-163	r	21:42:35.00	+00:16:45.9	J2000.00	1.139	179.7	00:20:11.3	10.1	r	Sloan	
194197	sa113-163	Z	21:42:35.00	+00:16:46.0	J2000.00	1.140	179.7	00:22:41.3	0.0	z	Gunn	
194198	sa113-163	Z	21:42:34.99	+00:16:46.0	J2000.00	1.141	179.7	00:26:10.4	10.1	z	Gunn	
194199	wfssgc014	Z	22:25:59.98	+00:00:00.2	J2000.00	1.143	179.7	00:30:14.3	599.4	z	Gunn	
194200	wfssgc015	Z	22:27:59.99	-00:00:00.1	J2000.00	1.141	179.7	00:43:01.0	599.5	z	Gunn	
194201	wfssgc016	Z	22:30:00.00	-00:00:00.0	J2000.00	1.141	179.7	00:55:28.2	599.4	z	Gunn	
194202	wfssgc017	Z	22:32:00.00	-00:00:00.1	J2000.00	1.143	179.7	01:07:36.2	599.5	z	Gunn	
194203	wfssgc024	Z	22:46:00.01	-00:00:00.3	J2000.00	1.143	179.7	01:20:26.2	599.5	z	Gunn	
194204	wfssgc025	Z	22:48:00.00	-00:00:00.0	J2000.00	1.147	179.7	01:32:36.2	599.5	z	Gunn	
194205	wfssgc026	Z	22:49:59.99	-00:00:00.1	J2000.00	1.154	179.7	01:44:45.3	599.6	z	Gunn	Cloud !
194206	cy1	r	22:01:03.79	+17:11:15.2	B1950.00	1.091	179.7	01:58:03.6	18.5	r	Sloan	
194207	cy1	r	22:01:03.79	+17:11:14.9	B1950.00	1.096	179.7	02:01:19.4	10.1	r	Sloan	
194208	cy1	r	22:01:03.80	+17:11:15.0	B1950.00	1.133	179.7	02:18:52.1	100.0	r	Sloan	
194209	wfssgc026	Z	22:50:00.00	+00:00:00.1	J2000.00	1.216	179.7	02:30:37.7	599.4	z	Gunn	Repeat of 194205
194210	wfssgc027	Z	22:52:00.00	-00:00:00.0	J2000.00	1.238	179.7	02:42:59.7	599.5	z	Gunn	
194211	wfssgc028	Z	22:53:59.99	-00:00:00.0	J2000.00	1.264	179.7	02:55:24.4	599.5	z	Gunn	
194212	M31-microfld1		0:44:00.00	+41:33:59.9	J2000.00	1.026	179.7	03:10:22.2	319.8	r	Sloan	
194213	M31-microfld1		0:43:59.99	+41:34:00.0	J2000.00	1.026	179.7	03:16:46.4	319.8	r	Sloan	
194214	M31-microfld1		0:44:00.00	+41:34:00.0	J2000.00	1.028	179.7	03:23:31.0	319.7	i	Sloan	
194215	M31-microfld1		0:44:00.00	+41:33:59.9	J2000.00	1.029	179.7	03:30:07.9	319.8	i	Sloan	
194216	M31-microfld2		0:43:10.00	+40:58:14.9	J2000.00	1.031	179.7	03:39:02.1	319.7	r	Sloan	
194217	M31-microfld2		0:43:10.00	+40:58:15.0	J2000.00	1.034	179.7	03:45:29.6	319.8	r	Sloan	
194218	M31-microfld2		0:43:10.00	+40:58:15.0	J2000.00	1.038	179.7	03:52:22.3	319.7	i	Sloan	
194219	M31-microfld2		0:43:10.00	+40:58:15.0	J2000.00	1.043	179.7	03:59:23.9	319.7	i	Sloan	
194220	wfssgc113	Z	1:44:00.02	-00:00:00.3	J2000.00	1.146	179.7	04:25:05.6	599.4	z	Gunn	
194220	wfssgc113	Z	1:44:00.02	-00:00:00.3	J2000.00	1.146	179.7	04:25:05.6	599.4	z	Gunn	
194221	wfssgc114	Z	1:45:59.99	-00:00:00.1	J2000.00	1.152	179.7	04:37:53.3	599.4	z	Gunn	
194222	wfssgc115	Z	1:47:59.99	-00:00:00.2	J2000.00	1.161	179.7	04:50:00.8	599.4	z	Gunn	
194223	wfssgc116	Z	1:50:00.00	-00:00:00.2	J2000.00	1.172	179.7	05:02:13.6	599.5	z	Gunn	
194224	wfssgc117	Z	1:52:00.00	+00:00:00.1	J2000.00	1.187	179.7	05:15:08.3	599.4	z	Gunn	Cloud and crap
194225	wfssgc118	Z	1:54:00.00	+00:00:00.1	J2000.00	1.209	179.7	05:30:16.4	599.0	z	Gunn	seeing - repeat