INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:              INT
DATE:                   1999 OCT06/07
INT TAPE NR:            INTD4199
OBSERVER:               S. T. Hodgkin
PROGRAMME:              includes WFS + M31
PATT/CAT:               I/99B/WFS09
TELESCOPE OPERATOR:     --
SUPPORT ASTRONOMER:     --

FOCUS:                  Prime
INSTRUMENT:             WFC
FILTER WHEEL (PF):      U, g', r', i', Z, I(rgo)
CAMERA (IDS):           -
COLLIMATOR (IDS):       -
COLL. FOCUS (IDS):      -
GRATING (IDS):          -
DETECTOR:               -
PIXELS:                 4x2154x4200
PIXEL SIZE (microns): 13.5
WINDOW:                 -
BINNING:                in X=1, in Y=1

WEATHER:                Good
OUTSIDE TEMP (deg C):     8             (FIRST HALF)
OUTSIDE TEMP (deg C):     7             (SECOND HALF)
HUMIDITY (%):            40             (FIRST HALF)
HUMIDITY (%):            10             (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):          1.0           (FIRST HALF)
SEEING (arcsec):          1.0           (SECOND HALF)
AV. SEEING (arcsec):      --
NO. SEEING MEASURES:      0

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

DARK HOURS:             09:42
DOME OPEN (UTC):        18:45
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:

SN, WFS, M31 data
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Run no. Object name             RA         Dec.     Equinox    AM    PA     UT       Exp. T.   Filter      Psys Channel  Binning Comments
 197462 Bias                 0:00:00.00 +00:00:00.0 A        1.132 179.7 13:08:43.8      0.0        z       Gunn
 197463 Bias                13:59:59.99 +34:59:59.9 A        1.021 179.7 13:26:07.4      0.0        z       Gunn
 197464 Bias                 0:00:00.00 +00:00:00.0 A        1.000 179.7 13:27:47.4      0.0        z       Gunn
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197465	tel moving	0:00:00.00	+00:00:00.0	A	1.000	179.7	13:29:29.1	0.0	z	Gunn	
197466	lights on	17:00:00.00	+34:59:59.9	A	1.460	179.7	13:31:04.7	0.0	z	Gunn	
197467	Bias	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:16:35.5	0.0	g	Sloan	
197468	Bias	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:19:37.6	0.0	g	Sloan	
197469	Bias	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:20:37.4	0.0	g	Sloan	
197470	Bias	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:21:38.3	0.0	g	Sloan	
197471	Bias	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:22:38.3	0.0	g	Sloan	
197472	Bias	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:23:38.5	0.0	g	Sloan	
197473	Bias	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:24:43.2	0.0	g	Sloan	
197474	Bias	0:00:00.00	+00:00:00.0	A	1.000	179.7	16:25:43.2	0.0	g	Sloan	
197475	Bias	16:59:59.99	+41:00:00.0	J2000.00	1.121	179.7	19:09:21.6	0.0	z	Gunn	
197476	(target not named)	17:00:00.00	+41:00:00.0	J2000.00	1.129	179.7	19:13:26.1	2.0	z	Gunn	
197477	Bias	16:59:59.99	+40:59:59.9	J2000.00	1.131	179.7	19:14:46.5	0.0	z	Gunn	
197478	sky z	17:00:00.00	+41:00:00.0	J2000.00	1.140	179.7	19:18:58.4	20.1	z	Gunn	
197479	sky z	16:59:59.13	+41:00:10.1	J2000.00	1.143	179.7	19:20:33.8	16.6	z	Gunn	
197480	sky z	17:00:00.90	+41:00:10.0	J2000.00	1.145	179.7	19:21:56.7	13.1	z	Gunn	
197481	sky g	17:00:00.03	+41:00:00.5	J2000.00	1.150	179.7	19:24:10.2	20.1	g	Sloan	
197482	sky g	16:59:59.09	+40:59:49.9	J2000.00	1.154	179.7	19:26:02.3	13.1	g	Sloan	
197483	sky g	16:59:59.12	+41:00:09.5	J2000.00	1.157	179.7	19:27:20.8	10.1	g	Sloan	
197484	sky r	17:00:00.00	+41:00:00.0	J2000.00	1.166	179.7	19:30:51.0	100.1	r	Sloan	
197485	Focus run	18:42:45.00	+00:10:04.0	J2000.00	1.165	179.7	19:44:01.6	10.1	r	Sloan	
197486	sa110-361 g	18:42:44.99	+00:08:04.0	J2000.00	1.176	179.7	19:51:47.2	9.6	g	Sloan	
197487	sa110-361 r	18:42:45.00	+00:08:03.9	J2000.00	1.178	179.7	19:52:59.9	10.1	r	Sloan	
197488	sa110-361 i	18:42:45.00	+00:08:03.9	J2000.00	1.179	179.7	19:54:14.5	9.6	i	Sloan	
197489	sa110-361 Z	18:42:45.00	+00:08:04.0	J2000.00	1.181	179.7	19:55:28.2	9.7	z	Gunn	
197490	wfsj1610+5430_036	16:11:54.00	+55:50:00.1	J2000.00	1.484	179.7	20:02:22.8	599.5	r	Sloan	
197493	Bias	22:24:00.00	-00:00:00.0	J2000.00	1.337	179.7	20:29:23.1	0.0	r	Sloan	
197494	wfssgc013	22:24:00.00	-00:00:00.0	J2000.00	1.288	179.7	20:39:28.6	598.9	r	Sloan	
197495	wfssgc013 i	22:24:00.00	+00:00:00.0	J2000.00	1.254	179.7	20:51:38.4	599.4	i	Sloan	
197496	wfssgc014 r	22:25:59.99	+00:00:00.1	J2000.00	1.229	179.7	21:04:33.7	599.5	r	Sloan	
197497	wfssgc014 i	22:25:59.99	+00:00:00.0	J2000.00	1.196	179.7	21:22:05.6	599.6	i	Sloan	
197498	wfssgc015 r	22:28:00.00	+00:00:00.1	J2000.00	1.180	179.7	21:34:51.6	598.9	r	Sloan	
197499	wfssgc015 i	22:28:00.00	+00:00:00.0	J2000.00	1.166	179.7	21:46:07.3	599.4	i	Sloan	
197500	wfssgc016 r	22:29:59.99	-00:00:00.2	J2000.00	1.156	179.7	21:58:09.3	599.4	r	Sloan	
197501	wfssgc016 i	22:30:00.00	+00:00:00.0	J2000.00	1.148	179.7	22:09:26.6	599.4	i	Sloan	
197502	wfssgc017 r	22:31:59.99	-00:00:00.3	J2000.00	1.143	179.7	22:21:27.3	599.3	r	Sloan	
197503	wfssgc017 i	22:31:59.99	-00:00:00.0	J2000.00	1.141	179.7	22:34:36.6	598.4	i	Sloan	
197504	wfssgc024 r	22:46:00.00	-00:00:00.1	J2000.00	1.141	179.7	22:47:55.6	598.8	r	Sloan	
197505	wfssgc024 i	22:46:00.00	+00:00:00.0	J2000.00	1.141	179.7	22:59:02.4	599.5	i	Sloan	
197506	wfssgc025 r	22:47:59.99	-00:00:00.1	J2000.00	1.144	179.7	23:12:02.4	599.4	r	Sloan	
197507	wfssgc025 i	22:48:00.00	-00:00:00.0	J2000.00	1.150	179.7	23:23:08.5	599.4	i	Sloan	
197508	wfssgc026 r	22:49:59.99	-00:00:00.3	J2000.00	1.158	179.7	23:35:09.3	599.0	r	Sloan	
197509	wfssgc026 i	22:50:00.00	+00:00:00.0	J2000.00	1.169	179.7	23:46:18.4	599.5	i	Sloan	
197511	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.042	179.7	00:01:58.6	359.0	r	Sloan	
197512	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.037	179.7	00:09:25.2	359.8	g	Sloan	
197513	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.034	179.7	00:16:27.8	359.7	g	Sloan	
197514	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.026	179.7	00:29:38.0	359.7	r	Sloan	
197515	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.024	179.7	00:36:44.4	359.8	r	Sloan	
197516	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.023	179.7	00:44:10.2	359.7	g	Sloan	
197517	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.023	179.7	00:51:13.3	359.8	g	Sloan	
197518	wfssgc095 r	1:08:00.00	+00:00:00.0	J2000.00	1.141	179.7	01:05:40.2	599.5	r	Sloan	
197519	wfssgc095 r	1:08:00.00	+00:00:00.1	J2000.00	1.141	179.7	01:17:09.6	599.4	r	Sloan	
197520	wfssgc095 g	1:08:00.00	+00:00:00.0	J2000.00	1.143	179.7	01:28:13.2	599.3	g	Sloan	
197521	wfssgc095 g	1:08:00.00	+00:00:00.0	J2000.00	1.148	179.7	01:39:30.4	599.5	g	Sloan	
197522	wfssgc095 r	1:10:00.00	-00:00:00.0	J2000.00	1.157	179.7	01:53:43.7	599.4	r	Sloan	-->wfssgc096
197523	wfssgc095 r	1:09:59.99	+00:00:00.0	J2000.00	1.168	179.7	02:04:55.0	599.3	r	Sloan	-->wfssgc096
197524	wfssgc096 g	1:09:59.99	-00:00:00.0	J2000.00	1.182	179.7	02:16:15.6	598.9	g	Sloan	
197525	wfssgc096 g	1:09:59.99	+00:00:00.0	J2000.00	1.199	179.7	02:27:22.4	599.5	g	Sloan	
197526	wfssgc122 r	2:02:00.00	+00:00:00.2	J2000.00	1.156	179.7	02:44:42.5	599.5	r	Sloan	
197527	wfssgc122 i	2:02:00.00	+00:00:00.0	J2000.00	1.167	179.7	02:55:49.4	599.4	i	Sloan	
197529	wfssgc122 z	2:02:00.00	-00:00:00.0	J2000.00	1.182	179.7	03:08:25.9	599.3	z	Gunn	
197530	wfssgc123 r	2:04:00.00	-00:00:00.0	J2000.00	1.200	179.7	03:21:45.0	599.4	r	Sloan	seeing 2"

197531	sa95-330 g	3:54:31.00	+00:29:04.9	J2000.00	1.139	179.7	03:45:47.7	9.6	g	Sloan
197532	sa95-330 r	3:54:31.00	+00:29:05.0	J2000.00	1.138	179.7	03:47:00.7	10.1	r	Sloan
197533	sa95-330 i	3:54:31.00	+00:29:05.0	J2000.00	1.138	179.7	03:48:19.9	10.1	i	Sloan
197534	sa95-330 Z	3:54:31.00	+00:29:04.9	J2000.00	1.138	179.7	03:49:36.1	10.1	z	Gunn
197535	sa95-330 I	3:54:31.00	+00:29:04.9	J2000.00	1.137	179.7	03:52:01.5	10.1	I	INT-WFC
197536	wfsj0354+0010_041	3:57:00.00	+00:10:00.2	J2000.00	1.139	179.7	04:01:53.8	599.5	r	Sloan
197537	wfsj0354+0010_042	3:56:59.99	+00:30:00.2	J2000.00	1.137	179.7	04:15:42.2	599.3	r	Sloan
197538	wfsj0354+0010_043	3:56:59.99	+00:50:00.2	J2000.00	1.139	179.7	04:27:43.5	599.4	r	Sloan
197540	wfsj0354+0010_044	3:57:00.00	+01:10:00.1	J2000.00	1.154	179.7	04:50:55.8	599.5	r	Sloan
197541	sa95-330 g	3:54:31.00	+00:29:05.0	J2000.00	1.175	179.7	05:04:02.4	10.1	g	Sloan
197542	sa95-330 r	3:54:31.00	+00:29:05.0	J2000.00	1.176	179.7	05:05:16.0	10.1	r	Sloan
197543	sa95-330 i	3:54:31.00	+00:29:04.9	J2000.00	1.178	179.7	05:06:45.2	10.1	i	Sloan
197544	sa95-330 Z	3:54:31.00	+00:29:04.9	J2000.00	1.180	179.7	05:08:02.2	10.1	z	Gunn
197545	sa95-330 I	3:54:31.00	+00:29:05.0	J2000.00	1.182	179.7	05:09:15.3	10.1	I	INT-WFC
197546	wfsj0347+2400-iz04	3:46:30.00	+23:50:00.1	J2000.00	1.054	179.7	05:15:36.4	30.1	I	INT-WFC
197547	wfsj0347+2400-iz04	3:46:29.99	+23:50:00.0	J2000.00	1.057	179.7	05:17:13.9	60.1	z	Gunn
197548	wfsj0347+2400-iz05	3:46:48.87	+23:29:54.0	J2000.00	1.061	179.7	05:20:09.2	30.1	I	INT-WFC
197549	wfsj0347+2400-iz05	3:46:48.87	+23:29:54.0	J2000.00	1.063	179.7	05:21:47.3	60.1	z	Gunn
197550	wfsj0347+2400-iz06	3:47:55.99	+23:14:43.4	J2000.00	1.067	179.7	05:24:54.0	30.1	I	INT-WFC
197551	wfsj0347+2400-iz06	3:47:55.99	+23:14:43.2	J2000.00	1.069	179.7	05:26:34.0	60.1	z	Gunn
197552	wfsj0347+2400-iz07	3:44:46.56	+23:32:12.9	J2000.00	1.079	179.7	05:29:53.3	30.1	I	INT-WFC
197553	wfsj0347+2400-iz07	3:44:46.56	+23:32:12.7	J2000.00	1.082	179.7	05:31:29.4	60.1	z	Gunn
197554	wfsj0347+2400-iz08	3:43:34.07	+24:15:44.0	J2000.00	1.087	179.7	05:34:24.2	30.1	I	INT-WFC
197555	wfsj0347+2400-iz08	3:43:34.07	+24:15:44.0	J2000.00	1.090	179.7	05:35:59.7	59.6	z	Gunn
197556	wfsj0347+2400-iz09	3:41:26.97	+24:15:58.8	J2000.00	1.099	179.7	05:38:57.6	30.1	I	INT-WFC
197557	wfsj0347+2400-iz09	3:41:26.97	+24:15:58.8	J2000.00	1.102	179.7	05:40:33.9	58.2	z	Gunn
197558	wfsj0347+2400-iz10	3:43:07.94	+23:58:38.0	J2000.00	1.106	179.7	05:44:05.4	30.1	I	INT-WFC
197559	wfsj0347+2400-iz10	3:43:07.94	+23:58:37.9	J2000.00	1.110	179.7	05:45:41.8	60.0	z	Gunn
197560	wfsj0347+2400-iz11	3:42:44.26	+23:38:14.0	J2000.00	1.117	179.7	05:48:37.5	30.1	I	INT-WFC
197561	wfsj0347+2400-iz11	3:42:44.26	+23:38:13.9	J2000.00	1.121	179.7	05:50:13.2	60.1	z	Gunn
197562	wfsj0347+2400-iz12	3:47:25.39	+22:48:39.7	J2000.00	1.120	179.7	05:53:12.8	28.2	I	INT-WFC
197563	wfsj0347+2400-iz12	3:47:25.39	+22:48:39.7	J2000.00	1.124	179.7	05:54:50.0	60.0	z	Gunn
197564	wfsj0347+2400-iz13	3:45:27.68	+23:01:54.4	J2000.00	1.136	179.7	05:58:38.1	30.1	I	INT-WFC
197565	wfsj0347+2400-iz13	3:45:27.68	+23:01:54.7	J2000.00	1.140	179.7	06:00:16.8	60.1	z	Gunn
197566	wfsj0347+2400-iz14	3:43:31.81	+23:06:31.9	J2000.00	1.151	179.7	06:03:12.8	30.1	I	INT-WFC
197567	wfsj0347+2400-iz14	3:43:31.82	+23:06:32.1	J2000.00	1.156	179.7	06:04:49.3	60.1	z	Gunn
197568	wfsj0347+2400-iz15	3:49:51.74	+23:07:02.9	J2000.00	1.147	179.7	06:07:43.4	30.1	I	INT-WFC
197569	wfsj0347+2400-iz15	3:49:51.74	+23:07:02.7	J2000.00	1.151	179.7	06:09:19.6	60.1	z	Gunn
197570	sa98-670 g	6:52:12.00	-00:19:17.0	J2000.00	1.171	179.7	06:12:44.9	9.6	g	Sloan
197571	sa98-670 r	6:52:12.00	-00:19:17.0	J2000.00	1.169	179.7	06:13:58.2	10.1	r	Sloan
197572	sa98-670 i	6:52:12.00	-00:19:17.0	J2000.00	1.168	179.7	06:15:13.0	10.1	i	Sloan
197573	sa98-670 Z	6:52:11.99	-00:19:16.9	J2000.00	1.167	179.7	06:16:30.4	10.1	z	Gunn
197574	sa98-670 I	6:52:12.00	-00:19:17.0	J2000.00	1.164	179.7	06:19:25.2	9.6	I	INT-WFC
197575	sa98-670 g	6:52:12.00	-00:19:17.0	J2000.00	1.161	179.7	06:22:07.4	4.1	g	Sloan
197576	sa98-670 r	6:52:12.00	-00:19:17.0	J2000.00	1.160	179.7	06:23:14.1	4.1	r	Sloan
197577	sa98-670 i	6:52:12.00	-00:19:17.0	J2000.00	1.159	179.7	06:24:22.8	4.1	i	Sloan
197578	sa98-670 Z	6:52:12.00	-00:19:17.0	J2000.00	1.158	179.7	06:25:30.4	4.1	z	Gunn
197579	sa98-679 I	6:52:12.00	-00:19:16.9	J2000.00	1.157	179.7	06:27:53.4	3.6	I	INT-WFC
197580	skyflat i	8:01:00.00	+49:59:59.9	J2000.00	1.134	179.7	06:32:08.0	80.0	i	Sloan
197581	skyflat i	8:01:00.00	+50:00:00.0	J2000.00	1.130	179.7	06:35:21.3	30.3	i	Sloan
197582	skyflat i	8:00:58.96	+49:59:40.1	J2000.00	1.128	179.7	06:36:57.4	20.1	i	Sloan
197583	sky r	8:01:00.00	+49:59:59.9	J2000.00	1.126	179.7	06:38:52.9	15.1	r	Sloan
197584	sky r	8:00:58.95	+49:59:50.1	J2000.00	1.125	179.7	06:40:14.7	11.1	r	Sloan
197585	sky r	8:01:01.03	+50:00:10.0	J2000.00	1.123	179.7	06:41:33.9	7.1	r	Sloan
197586	sky I	8:01:01.03	+50:00:10.0	J2000.00	1.122	179.7	06:42:52.9	1.6	I	INT-WFC
197587	sky I	8:01:01.03	+50:00:09.9	J2000.00	1.120	179.7	06:44:15.9	2.1	I	INT-WFC
197588	sky I	8:01:01.04	+50:00:10.0	J2000.00	1.119	179.7	06:45:21.3	2.1	I	INT-WFC
197589	sky I	8:01:01.03	+49:59:49.9	J2000.00	1.117	179.7	06:46:52.0	2.1	I	INT-WFC