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INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE:             INT
DATE:                  1999 Sep 06/07
INT TAPE NR:           INTD 4172
OBSERVER:              M. Irwin, N. Walton + SNe
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:               Photometric and good seeing

OUTSIDE TEMP (deg C):   10              (FIRST HALF)
OUTSIDE TEMP (deg C):   10              (SECOND HALF)
HUMIDITY (%):           25              (FIRST HALF)
HUMIDITY (%):           20              (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):        0.9             (SECOND HALF)
AV. SEEING (arcsec):    0.9
NO. SEEING MEASURES:    12

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

DARK HOURS:            08:38
DOME OPEN (UTC):       19:40
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.): 00:15
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:

Good seeing and photometric all night

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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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194524	Bias frame	0:00:00.00	+00:00:00.0	A	4.131	179.7	19:03:55.4	0.0	r	Sloan	
194525	Bias frame	0:00:00.00	+00:00:00.0	A	4.131	179.7	19:04:42.5	0.0	r	Sloan	
194526	Bias frame	0:00:00.00	+00:00:00.0	A	4.131	179.7	19:05:29.6	0.0	r	Sloan	
194527	Bias frame	0:00:00.00	+00:00:00.0	A	4.131	179.7	19:06:16.9	0.0	r	Sloan	
194530	Bias frame	0:00:00.00	+00:00:00.0	A	4.131	179.7	19:19:59.5	0.0	z	Gunn	
194531	Bias frame	0:00:00.00	+00:00:00.0	A	4.131	179.7	19:20:46.5	0.0	z	Gunn	
194532	Bias frame	0:00:00.00	+00:00:00.0	A	4.131	179.7	19:21:33.5	0.0	z	Gunn	
194533	Flat field	15:54:59.99	+34:59:59.9	J2000.00	1.084	179.7	19:48:08.4	3.3	z	Gunn	MCA timing fu'd
194534	Flat field	15:55:08.13	+35:00:09.9	J2000.00	1.086	179.7	19:49:28.9	0.0	z	Gunn	
194535	Flat field	15:55:08.13	+35:00:09.9	J2000.00	1.092	179.7	19:52:43.7	0.0	i	Sloan	
194536	Flat field	15:55:04.07	+35:00:49.9	J2000.00	1.095	179.7	19:54:23.2	0.0	i	Sloan	
194537	Flat field	15:55:00.00	+35:00:00.0	J2000.00	1.097	179.7	19:55:50.3	0.0	g	Sloan	
194538	Flat field	15:55:04.07	+35:00:50.0	J2000.00	1.100	179.7	19:57:06.5	0.0	g	Sloan	
194539	Flat field	15:55:08.14	+35:01:39.9	J2000.00	1.102	179.7	19:58:20.5	0.0	g	Sloan	
194540	Flat field	15:55:06.10	+35:01:14.9	J2000.00	1.105	179.7	19:59:59.5	0.0	r	Sloan	
194541	Flat field	15:55:04.07	+35:00:50.0	J2000.00	1.108	179.7	20:01:34.1	0.0	r	Sloan	
194542	Flat field	15:54:57.96	+34:59:34.9	J2000.00	1.112	179.7	20:03:19.5	0.0	r	Sloan	
194543	Focus run	18:42:45.00	+00:10:04.0	J2000.00	1.155	179.7	20:14:59.9	10.1	g	Sloan	MCA reset
194544	sa110-361 g	18:42:44.99	+00:08:03.9	J2000.00	1.151	179.7	20:19:10.5	10.1	g	Sloan	
194545	sa110-361 i	18:42:45.00	+00:08:03.9	J2000.00	1.150	179.7	20:20:51.8	10.1	i	Sloan	
194546	sa110-361 r	18:42:44.99	+00:08:04.0	J2000.00	1.149	179.7	20:22:23.2	9.6	r	Sloan	
194547	sa110-361 Z	18:42:45.00	+00:08:04.0	J2000.00	1.148	179.7	20:23:51.6	10.1	z	Gunn	
194548	wfsj1637+4116_022	16:35:40.59	+40:56:00.0	J2000.00	1.113	179.7	20:33:41.3	599.4	r	Sloan	
194549	wfsj1637+4116_023	16:35:40.19	+41:16:00.0	J2000.00	1.137	179.7	20:45:51.6	599.4	r	Sloan	
194550	wfsj1637+4116_024	16:35:39.80	+41:36:00.0	J2000.00	1.162	179.7	20:57:47.0	599.3	r	Sloan	
194551	wfsj1637+4116_031	16:38:19.39	+40:55:59.9	J2000.00	1.183	179.7	21:10:26.3	599.5	r	Sloan	
194552	wfsj1637+4116_032	16:38:19.80	+41:16:00.0	J2000.00	1.215	179.7	21:22:24.4	599.5	r	Sloan	
194553	wfsj1637+4116_033	16:38:20.20	+41:35:59.8	J2000.00	1.250	179.7	21:34:15.5	599.4	r	Sloan	
194554	wfsj1637+4116_040	16:40:58.29	+40:56:00.2	J2000.00	1.281	179.7	21:47:00.4	599.6	r	Sloan	
194555	wfsj1637+4116_041	16:40:59.49	+41:16:00.0	J2000.00	1.324	179.7	21:58:50.2	599.6	r	Sloan	
194556	wfsj1637+4116_042	16:41:00.68	+41:35:59.9	J2000.00	1.371	179.7	22:10:39.8	599.5	r	Sloan	
194557	sa113-163 g	21:42:35.00	+00:16:46.0	J2000.00	1.223	179.7	22:25:07.0	10.1	g	Sloan	
194558	sa113-163 i	21:42:35.00	+00:16:45.9	J2000.00	1.220	179.7	22:26:40.5	10.1	i	Sloan	
194559	sa113-163 r	21:42:35.00	+00:16:46.0	J2000.00	1.217	179.7	22:28:06.0	10.1	r	Sloan	
194560	sa113-163 Z	21:42:35.00	+00:16:45.9	J2000.00	1.214	179.7	22:29:33.9	10.1	z	Gunn	
194561	M31-microfld1	0:43:59.99	+41:34:00.0	J2000.00	1.636	179.7	22:35:31.0	359.8	r	Sloan	
194562	M31-microfld1	0:43:59.99	+41:34:00.0	J2000.00	1.590	179.7	22:42:33.3	359.6	r	Sloan	
194563	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.544	179.7	22:49:56.0	359.7	g	Sloan	
194564	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.504	179.7	22:56:60.0	359.6	g	Sloan	
194565	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.451	179.7	23:06:26.5	358.6	r	Sloan	MCA timing fu'd
194566	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.416	179.7	23:13:37.5	0.0	r	Sloan	360s approx.
194567	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.383	179.7	23:20:58.8	0.0	g	Sloan	
194568	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.353	179.7	23:28:00.3	0.0	g	Sloan	
194569	wfssgc041 g	23:20:00.00	+00:00:00.0	J2000.00	1.277	179.7	23:39:50.5	239.3	g	Sloan	MCA reset
194570	wfssgc042 g	23:22:00.00	+00:00:00.1	J2000.00	1.266	179.7	23:45:46.9	239.8	g	Sloan	
194571	wfssgc043 g	23:24:00.00	+00:00:00.1	J2000.00	1.256	179.7	23:51:45.8	239.9	g	Sloan	
194572	wfssgc044 g	23:26:00.00	+00:00:00.0	J2000.00	1.246	179.7	23:57:43.7	239.8	g	Sloan	
194573	wfssgc045 g	23:28:00.00	+00:00:00.0	J2000.00	1.237	179.7	00:03:42.6	239.8	g	Sloan	
194574	wfssgc041 g	23:20:00.00	+00:00:00.0	J2000.00	1.208	179.7	00:09:45.5	239.9	g	Sloan	
194575	wfssgc042 g	23:22:00.00	+00:00:00.0	J2000.00	1.201	179.7	00:15:48.7	239.8	g	Sloan	
194576	wfssgc043 g	23:24:00.00	+00:00:00.0	J2000.00	1.194	179.7	00:21:52.8	239.9	g	Sloan	
194577	wfssgc044 g	23:26:00.00	-00:00:00.0	J2000.00	1.187	179.7	00:28:08.7	239.8	g	Sloan	
194578	wfssgc045 g	23:28:00.00	+00:00:00.0	J2000.00	1.181	179.7	00:34:35.4	239.8	g	Sloan	
194579	wfssgc056 g	23:50:00.00	-00:00:00.0	J2000.00	1.204	179.7	00:41:55.2	239.9	g	Sloan	
194580	wfssgc057 g	23:52:00.00	+00:00:00.0	J2000.00	1.197	179.7	00:47:51.0	239.8	g	Sloan	
194581	wfssgc058 g	23:54:00.00	-00:00:00.0	J2000.00	1.190	179.7	00:54:12.2	239.9	g	Sloan	
194582	wfssgc059 g	23:55:59.99	+00:00:00.1	J2000.00	1.184	179.7	01:00:14.8	239.9	g	Sloan	
194583	wfssgc060 g	23:58:00.00	+00:00:00.0	J2000.00	1.179	179.7	01:06:11.9	239.8	g	Sloan	
194584	wfssgc056 g	23:50:00.00	+00:00:00.0	J2000.00	1.162	179.7	01:12:25.6	239.9	g	Sloan	
194585	wfssgc057 g	23:52:00.00	+00:00:00.0	J2000.00	1.158	179.7	01:18:46.8	239.9	g	Sloan	
194586	wfssgc058 g	23:54:00.00	+00:00:00.0	J2000.00	1.154	179.7	01:25:11.5	239.8	g	Sloan	
194587	wfssgc059 g	23:55:59.99	-00:00:00.0	J2000.00	1.151	179.7	01:31:15.3	239.8	g	Sloan	

194588	wfssgc060	g	23:58:00.00	+00:00:00.0	J2000.00	1.149	179.7	01:37:19.6	239.8	g	Sloan
194589	wfssgc076	g	0:30:00.00	+00:00:00.0	J2000.00	1.171	179.7	01:43:44.4	239.5	g	Sloan
194590	wfssgc077	g	0:32:00.00	-00:00:00.0	J2000.00	1.167	179.7	01:49:42.9	239.8	g	Sloan
194591	wfssgc078	g	0:34:00.00	-00:00:00.0	J2000.00	1.162	179.7	01:56:01.9	239.9	g	Sloan
194592	wfssgc079	g	0:36:00.00	+00:00:00.0	J2000.00	1.158	179.7	02:02:33.8	239.7	g	Sloan
194593	wfssgc080	g	0:37:59.99	+00:00:00.1	J2000.00	1.155	179.7	02:08:32.7	239.8	g	Sloan
194594	wfssgc076	g	0:30:00.00	+00:00:00.1	J2000.00	1.146	179.7	02:14:40.4	239.9	g	Sloan
194595	wfssgc077	g	0:32:00.00	+00:00:00.0	J2000.00	1.144	179.7	02:20:56.3	239.8	g	Sloan
194596	wfssgc078	g	0:34:00.00	-00:00:00.0	J2000.00	1.142	179.7	02:27:03.2	239.5	g	Sloan
194597	wfssgc079	g	0:36:00.00	-00:00:00.0	J2000.00	1.141	179.7	02:33:06.3	239.9	g	Sloan
194598	wfssgc080	g	0:38:00.00	+00:00:00.0	J2000.00	1.141	179.7	02:39:17.9	239.8	g	Sloan
194599	wfssgc101	g	1:20:00.00	+00:00:00.1	J2000.00	1.158	179.7	02:46:08.2	239.8	g	Sloan
194600	wfssgc102	g	1:22:00.00	+00:00:00.0	J2000.00	1.155	179.7	02:52:26.9	239.9	g	Sloan
194601	wfssgc103	g	1:24:00.00	-00:00:00.0	J2000.00	1.152	179.7	02:58:23.6	239.4	g	Sloan
194602	wfssgc104	g	1:26:00.00	+00:00:00.0	J2000.00	1.149	179.7	03:04:24.7	239.8	g	Sloan
194603	wfssgc105	g	1:28:00.00	+00:00:00.0	J2000.00	1.147	179.7	03:10:31.3	239.8	g	Sloan
194604	wfssgc101	g	1:20:00.00	+00:00:00.0	J2000.00	1.141	179.7	03:16:44.9	239.8	g	Sloan
194605	wfssgc102	g	1:22:00.00	-00:00:00.0	J2000.00	1.141	179.7	03:22:50.0	239.9	g	Sloan
194606	wfssgc103		1:24:00.00	-00:00:00.0	J2000.00	1.141	179.7	03:38:05.7	239.8	g	Sloan
194607	wfssgc104		1:26:00.00	-00:00:00.1	J2000.00	1.142	179.7	03:44:12.6	239.8	g	Sloan
194608	wfssgc105		1:28:00.00	-00:00:00.0	J2000.00	1.143	179.7	03:50:23.6	239.9	g	Sloan
194609	wfssgc116	g	1:50:00.00	+00:00:00.1	J2000.00	1.140	179.7	03:57:47.7	239.8	g	Sloan
194610	wfssgc117	g	1:51:59.99	+00:00:00.2	J2000.00	1.141	179.7	04:03:44.6	239.8	g	Sloan
194611	wfssgc118	g	1:53:59.99	-00:00:00.1	J2000.00	1.141	179.7	04:10:01.7	239.4	g	Sloan
194612	wfssgc119	g	1:56:00.00	-00:00:00.0	J2000.00	1.143	179.7	04:16:11.6	239.5	g	Sloan
194613	wfssgc120	g	1:58:00.00	+00:00:00.0	J2000.00	1.144	179.7	04:22:30.6	239.4	g	Sloan
194614	wfssgc116	g	1:50:00.00	-00:00:00.1	J2000.00	1.152	179.7	04:28:48.5	239.3	g	Sloan
194615	wfssgc117	g	1:52:00.00	+00:00:00.0	J2000.00	1.155	179.7	04:34:53.8	239.9	g	Sloan
194616	wfssgc118	g	1:54:00.00	-00:00:00.1	J2000.00	1.159	179.7	04:40:57.0	239.9	g	Sloan
194618	WFSSGC119		1:56:00.00	-00:00:00.1	J2000.00	1.163	179.7	04:47:43.4	239.9	g	Sloan
194619	WFSSGC120		1:58:00.00	+00:00:00.0	J2000.00	1.167	179.7	04:53:21.8	239.9	g	Sloan
194620	wfssgc131	g	2:20:00.00	+00:00:00.0	J2000.00	1.153	179.7	04:59:60.1	239.8	g	Sloan
194621	wfssgc132	g	2:22:00.00	-00:00:00.0	J2000.00	1.156	179.7	05:05:58.1	239.9	g	Sloan
194622	wfssgc133	g	2:24:00.00	+00:00:00.0	J2000.00	1.160	179.7	05:11:55.6	239.9	g	Sloan
194623	wfssgc131	g	2:20:00.00	+00:00:00.0	J2000.00	1.170	179.7	05:18:03.2	239.8	g	Sloan
194624	wfssgc132	g	2:22:00.00	-00:00:00.0	J2000.00	1.176	179.7	05:24:32.8	239.4	g	Sloan
194625	wfssgc133	g	2:24:00.00	+00:00:00.0	J2000.00	1.181	179.7	05:30:40.7	239.8	g	Sloan
194626	sa92-335	g	0:55:00.00	+00:44:12.9	J2000.00	1.443	179.7	05:36:55.8	10.1	g	Sloan
194627	sa92-335	i	0:55:00.00	+00:44:13.0	J2000.00	1.450	179.7	05:38:25.7	10.1	i	Sloan
194628	sa92-335	r	0:55:00.00	+00:44:12.9	J2000.00	1.458	179.7	05:39:52.8	10.1	r	Sloan
194629	sa92-335	Z	0:55:00.00	+00:44:12.9	J2000.00	1.468	179.7	05:41:48.8	9.7	z	Gunn