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INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE:             INT
DATE:                  1999 Sep 03/04
INT TAPE NR:           INTD 4170
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:               Photometric but generally poor seeing and high humidity
OUTSIDE TEMP (deg C):   10              (FIRST HALF)
OUTSIDE TEMP (deg C):    7              (SECOND HALF)
HUMIDITY (%):           40              (FIRST HALF)
HUMIDITY (%):           60              (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):       1.8              (FIRST HALF)
SEEING (arcsec):       1.5              (SECOND HALF)
AV. SEEING (arcsec):   1.7
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):00:15
DK HRS LOST (TELESC): 00:00
DK HRS LOST (DOME):    00:00
DK HRS LOST (INSTR.): 00:40
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:

Seeing generally poor and variable all night.  Lost 40mins due to filter wheel sticking problems and closed early due to high humidity.

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Run no. Object name              RA         Dec.     Equinox    AM    PA     UT       Exp. T.   Filter      Psys Channel  Binning Comments

 194236 Bias frame            0:00:00.00 +00:00:00.0 A        1.000 179.7 15:30:43.4      0.0        U        RGO
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194237	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	15:31:30.4	0.0	U	RGO
194238	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	15:32:18.3	0.0	U	RGO
194239	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	15:33:05.3	0.0	U	RGO
194240	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	15:33:59.7	0.0	U	RGO
194241	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	15:34:51.0	0.0	U	RGO
194242	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	15:36:00.4	0.0	U	RGO
194243	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	15:36:50.1	0.0	U	RGO
194244	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	15:37:37.7	0.0	U	RGO
194245	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.7	15:38:24.9	0.0	U	RGO
194246	Flat field	16:10:00.00	+40:00:00.0	J2000.00	1.061	179.7	19:49:06.0	2.6	U	RGO
194247	Flat field	16:10:02.61	+40:00:00.0	J2000.00	1.066	179.7	19:53:49.3	7.8	U	RGO
194248	Flat field	16:10:02.61	+39:59:59.9	J2000.00	1.068	179.7	19:55:40.5	12.0	z	Gunn
194249	Flat field	16:10:02.61	+40:00:00.0	J2000.00	1.070	179.7	19:57:14.4	4.4	i	Sloan
194250	Flat field	16:10:00.00	+40:00:00.1	J2000.00	1.072	179.7	19:58:35.9	6.3	i	Sloan
194251	Flat field	16:09:59.99	+39:59:59.9	J2000.00	1.074	179.7	20:00:10.2	6.9	g	Sloan
194252	Flat field	16:09:59.99	+40:00:29.9	J2000.00	1.076	179.7	20:01:38.3	9.9	g	Sloan
194253	Flat field	16:10:05.22	+40:00:30.0	J2000.00	1.078	179.7	20:03:04.1	14.7	g	Sloan
194254	Flat field	16:10:05.22	+40:00:30.0	J2000.00	1.080	179.7	20:04:39.9	29.6	r	Sloan
194255	Flat field	16:10:00.00	+40:00:00.0	J2000.00	1.083	179.7	20:06:25.2	51.6	r	Sloan
194256	Focus run	18:42:45.00	+00:10:04.0	J2000.00	1.164	179.7	20:17:05.8	10.1	g	Sloan
194257	sa110-361 U	18:42:44.99	+00:08:04.0	J2000.00	1.158	179.7	20:21:58.9	30.1	U	RGO
194258	sa110-361 g	18:42:45.00	+00:08:03.9	J2000.00	1.157	179.7	20:23:54.6	9.1	g	Sloan
194259	sa110-361 i	18:42:45.00	+00:08:03.9	J2000.00	1.155	179.7	20:25:21.6	10.1	i	Sloan
194260	sa110-361 r	18:42:45.00	+00:08:03.9	J2000.00	1.154	179.7	20:26:48.3	10.1	r	Sloan
194261	sa110-361 Z	18:42:45.00	+00:08:03.9	J2000.00	1.153	179.7	20:28:15.4	10.1	z	Gunn
194262	m92 U	17:17:06.00	+43:07:59.9	J2000.00	1.052	179.7	20:33:33.6	30.1	U	RGO
194264	m92 i	17:17:06.00	+43:08:00.0	J2000.00	1.054	179.7	20:36:03.3	10.1	i	Sloan
194265	m92 r	17:17:05.99	+43:08:00.0	J2000.00	1.055	179.7	20:37:31.1	10.1	r	Sloan
194266	m92 Z	17:17:06.00	+43:08:00.0	J2000.00	1.056	179.7	20:38:59.2	10.1	z	Gunn
194267	m92 g	17:17:06.00	+43:08:00.0	J2000.00	1.059	179.7	20:41:29.7	10.1	g	Sloan
194268	Focus run	16:33:01.69	+40:57:59.9	J2000.00	1.111	179.7	20:47:07.9	10.1	z	Gunn
194269	wfsj1637+4116_013	16:33:01.70	+40:56:00.1	J2000.00	1.127	179.7	20:50:43.6	599.4	z	Gunn
194270	wfsj1637+4116_014	16:33:00.49	+41:15:59.8	J2000.00	1.152	179.7	21:02:30.2	599.5	z	Gunn
194271	wfsj1637+4116_015	16:32:59.29	+41:35:59.8	J2000.00	1.179	179.7	21:14:17.3	599.5	z	Gunn
194272	wfsj1637+4116_040	16:40:58.30	+40:55:59.8	J2000.00	1.194	179.7	21:28:59.7	599.4	z	Gunn
194273	wfsj1637+4116_041	16:40:59.49	+41:15:59.8	J2000.00	1.226	179.7	21:40:55.9	599.6	z	Gunn
194274	wfsj1637+4116_042	16:41:00.69	+41:36:00.0	J2000.00	1.262	179.7	21:52:46.1	599.5	z	Gunn
194275	wfssgc016 g	22:29:59.99	+00:00:00.1	J2000.00	1.498	179.7	22:07:12.0	239.9	g	Sloan
194277	wfssgc017 g	22:31:59.99	-00:00:00.0	J2000.00	1.465	179.7	22:15:14.0	239.8	g	Sloan
194278	wfssgc018 g	22:33:59.98	-00:00:00.0	J2000.00	1.446	179.7	22:21:10.9	239.9	g	Sloan
194279	wfssgc019 g	22:36:00.00	-00:00:00.1	J2000.00	1.427	179.7	22:26:58.4	239.8	g	Sloan
194280	wfssgc020 g	22:37:59.98	+00:00:00.3	J2000.00	1.410	179.7	22:32:50.7	239.9	g	Sloan
194281	wfssgc017 g	22:31:59.99	-00:00:00.0	J2000.00	1.360	179.7	22:38:49.7	240.0	g	Sloan
194282	wfssgc018 g	22:34:00.00	+00:00:00.0	J2000.00	1.345	179.7	22:44:47.3	239.9	g	Sloan
194283	wfssgc019 g	22:36:00.00	+00:00:00.0	J2000.00	1.331	179.7	22:50:46.2	239.9	g	Sloan
194284	wfssgc020 g	22:38:00.00	-00:00:00.0	J2000.00	1.317	179.7	22:56:49.3	239.8	g	Sloan
194285	wfssgc016 g	22:29:59.99	-00:00:00.1	J2000.00	1.274	179.7	23:02:53.5	239.9	g	Sloan
194286	sa113-163 U	21:42:35.00	+00:16:46.0	J2000.00	1.170	179.7	23:08:47.1	30.1	U	RGO
194287	sa113-163 g	21:42:35.00	+00:16:46.0	J2000.00	1.168	179.7	23:10:35.6	10.2	g	Sloan
194288	sa113-163 i	21:42:34.99	+00:16:45.9	J2000.00	1.166	179.7	23:12:05.9	10.1	i	Sloan
194289	sa113-163 r	21:42:34.99	+00:16:46.0	J2000.00	1.165	179.7	23:13:31.4	10.1	r	Sloan
194290	sa113-163 Z	21:42:34.99	+00:16:45.9	J2000.00	1.163	179.7	23:15:01.4	10.1	z	Gunn
194291	wfssgc021 g	22:40:00.00	-00:00:00.0	J2000.00	1.256	179.7	23:19:33.8	239.9	g	Sloan
194292	wfssgc022 g	22:42:00.00	+00:00:00.0	J2000.00	1.246	179.7	23:25:31.5	240.0	g	Sloan
194293	wfssgc023 g	22:43:59.99	+00:00:00.0	J2000.00	1.237	179.7	23:31:22.0	239.8	g	Sloan
194294	wfssgc024 g	22:45:59.99	+00:00:00.1	J2000.00	1.229	179.7	23:37:13.9	239.9	g	Sloan
194296	WFSSGC025	22:47:59.99	+00:00:00.2	J2000.00	1.218	179.7	23:48:32.2	-240.0	g	Sloan MCA fu
194297	wfssgc021 g	22:40:00.00	+00:00:00.0	J2000.00	1.186	179.7	23:54:59.9	239.4	g	Sloan
194298	wfssgc022 g	22:41:59.99	+00:00:00.0	J2000.00	1.180	179.7	00:01:15.8	239.9	g	Sloan
194299	wfssgc023 g	22:43:59.99	+00:00:00.1	J2000.00	1.174	179.7	00:07:28.2	239.9	g	Sloan
194300	wfssgc024 g	22:46:00.00	+00:00:00.0	J2000.00	1.170	179.7	00:13:25.0	239.9	g	Sloan
194301	wfssgc025 g	22:48:00.00	+00:00:00.0	J2000.00	1.165	179.7	00:19:44.2	239.9	g	Sloan

194302	wfssgc081	g	0:40:00.00	+00:00:00.0	J2000.00	1.448	179.7	00:26:24.7	239.8	g	Sloan
194303	wfssgc082	g	0:41:59.99	+00:00:00.1	J2000.00	1.429	179.7	00:32:21.0	239.8	g	Sloan Trailed vf guide star
194304	wfssgc083	g	0:44:00.00	-00:00:00.1	J2000.00	1.410	179.7	00:38:17.2	239.8	g	Sloan
194305	wfssgc084	g	0:45:59.99	+00:00:00.1	J2000.00	1.393	179.7	00:44:21.3	239.8	g	Sloan
194306	wfssgc085	g	0:47:59.99	+00:00:00.0	J2000.00	1.376	179.7	00:50:22.6	239.4	g	Sloan
194307	wfssgc081	g	0:40:00.00	+00:00:00.0	J2000.00	1.323	179.7	00:56:37.1	239.8	g	Sloan
194308	wfssgc082	g	0:42:00.00	-00:00:00.3	J2000.00	1.310	179.7	01:02:34.7	239.3	g	Sloan
194309	wfssgc083	g	0:44:00.00	+00:00:00.0	J2000.00	1.296	179.7	01:09:03.6	239.8	g	Sloan
194310	wfssgc084	g	0:46:00.00	+00:00:00.1	J2000.00	1.283	179.7	01:15:17.4	239.8	g	Sloan
194311	wfssgc085	g	0:48:00.00	+00:00:00.0	J2000.00	1.272	179.7	01:21:26.3	239.8	g	Sloan
194312	wfssgc082	g	0:42:00.00	-00:00:00.0	J2000.00	1.238	179.7	01:28:44.3	239.9	g	Sloan
194313	sa113-163	U	21:42:35.00	+00:16:46.0	J2000.00	1.237	179.7	01:35:50.1	30.1	U	RGO
194314	sa113-163	g	21:42:35.00	+00:16:46.0	J2000.00	1.242	179.7	01:37:54.0	10.1	g	Sloan
194315	sa113-163	i	21:42:35.00	+00:16:46.0	J2000.00	1.245	179.7	01:39:23.5	9.6	i	Sloan
194316	sa113-163	r	21:42:35.00	+00:16:46.0	J2000.00	1.249	179.7	01:40:49.1	10.1	r	Sloan
194317	sa113-163	Z	21:42:35.00	+00:16:46.0	J2000.00	1.252	179.7	01:42:17.8	10.1	z	Gunn
194319	wfssgc029	Z	22:55:59.99	-00:00:00.0	J2000.00	1.156	179.7	01:49:00.3	599.0	z	Gunn
194320	wfssgc030	Z	22:57:59.99	+00:00:00.0	J2000.00	1.166	179.7	02:01:10.9	599.1	z	Gunn
194321	wfssgc031	Z	22:59:59.99	-00:00:00.0	J2000.00	1.178	179.7	02:13:15.5	599.5	z	Gunn
194322	wfssgc032	Z	23:02:00.00	+00:00:00.0	J2000.00	1.194	179.7	02:26:04.6	599.4	z	Gunn
194323	wfssgc033	Z	23:03:59.99	-00:00:00.0	J2000.00	1.211	179.7	02:37:54.6	599.0	z	Gunn
194324	wfssgc034	Z	23:05:59.99	-00:00:00.0	J2000.00	1.231	179.7	02:49:46.0	599.5	z	Gunn
194325	wfssgc081	Z	0:39:59.99	-00:00:00.0	J2000.00	1.141	179.7	03:02:11.6	599.4	z	Gunn
194326	wfssgc082	Z	0:41:59.99	-00:00:00.0	J2000.00	1.144	179.7	03:14:12.4	599.4	z	Gunn
194327	wfssgc083	Z	0:44:00.00	+00:00:00.0	J2000.00	1.148	179.7	03:26:12.1	599.5	z	Gunn
194328	sa92-335	U	0:55:00.00	+00:44:12.9	J2000.00	1.138	179.7	03:37:51.9	30.1	U	RGO Filter wheel problems
194330	M31-microfld1		0:44:00.00	+41:34:00.0	J2000.00	1.067	179.7	04:20:00.5	319.9	r	Sloan
194331	M31-microfld1		0:43:59.99	+41:34:00.0	J2000.00	1.075	179.7	04:26:25.2	319.7	r	Sloan
194332	M31-microfld1		0:44:00.00	+41:34:00.0	J2000.00	1.083	179.7	04:33:07.5	319.2	i	Sloan
194333	M31-microfld1		0:43:59.99	+41:33:59.9	J2000.00	1.092	179.7	04:39:35.5	319.8	i	Sloan
194334	M31-microfld2		0:43:09.99	+40:58:15.0	J2000.00	1.104	179.7	04:48:24.6	319.8	r	Sloan
194335	M31-microfld2		0:43:10.00	+40:58:14.9	J2000.00	1.115	179.7	04:54:48.5	318.7	r	Sloan
194336	M31-microfld2		0:43:10.00	+40:58:15.0	J2000.00	1.127	179.7	05:01:33.5	319.9	i	Sloan
194337	M31-microfld2		0:43:10.00	+40:58:14.9	J2000.00	1.139	179.7	05:07:59.6	319.3	i	Sloan