INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:             INT
DATE:                  20001117
TAPE NR:               INTD
OBSERVER:              Peter Bunclark
PROGRAMME:             Wide-Field Survey
PATT/CAT REF.:         WFS9+M31
TELESCOPE OPERATOR:    mike@ast.cam.ac.uk,rgm@ast.cam.ac.uk,psb@ast.cam.ac.uk
SUPPORT ASTRONOMER:

TELESCOPE FOCUS:       46.1 mm
CALIBRATE RESULTS:     HI 33.7 +/- 5.2, DI -52.1 +/- 1.7, HC 57.0 +/- 3.7, Sky sigma 4.5

INSTRUMENT:            WFC

WFC FILTER WHEEL:      UgriZV

WEATHER:               (1st half) BAD
                       (2nd half) FAIR
CLOUD COVER (%):       (1st half) 0
                       (2nd half) 0
DUST (0-2):            (1st half) 0
                       (2nd half) 0
SEEING (arcsec):       (1st half) 4
                       (2nd half) 1.5

DOME OPENED (UT):      18:00
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METEOROLOGICAL PARAMETERS

LT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
19:00	5.2	17	15.1	21.3	123	772.3	5.6	7.3	9.9	12	13
20:00	5.2	24	15.6	19.3	182	772.7	5.2	7.1	9.2	29	21
21:00	5.4	19	27.0	30.4	133	772.9	5.5	8.0	9.4	20	17
22:00	4.9	18	11.2	14.6	55	773.6	5.9	7.4	8.6	14	14
23:00	5.3	14	6.3	8.1	103	773.7	5.9	7.7	8.4	14	14
00:00	5.4	17	32.9	41.4	170	773.2	6.0	7.3	8.3	15	15
01:00	5.7	24	24.4	28.7	124	772.5	6.0	7.3	8.2	27	23
02:00	6.9	12	33.8	39.9	98	772.2	7.0	7.7	8.1	11	14
03:00	7.5	7	36.7	42.1	75	772.1	6.9	8.1	8.4	8	9
04:00	6.6	8	26.7	30.1	107	771.9	7.0	8.2	8.4	7	9
05:00	6.2	10	35.1	37.1	50	771.6	6.3	7.8	8.8	9	9
06:00	5.8	11	35.7	37.6	65	771.6	6.1	7.7	8.4	10	12
07:00	2.9	87	24.0	28.1	58	771.9	2.5	6.7	8.5	97	67

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SUNSET(UT)             18:25
EVENING TWILIGHT(UT)   19:39
MORNING TWILIGHT(UT)   06:15
SUNRISE(UT)            07:29
MOON'S QUARTER (1-4)   3
DISK % OF ILLUM.       60
DARK TIME              10:36
TWILIGHT TIME          02:28
MOONRISE(UT)           23:58
MOONSET(UT)            No moonset within sunset-sunrise

TIME LOST(WEATHER):    06:00
TIME LOST(TECHNICAL):  00:30
TIME LOST(OTHER):      00:00
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COMMENTS:
  Mirror servo AXIAL SW dropped out 4-5 times

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
236234	Bias frame	15:00:00.00	-00:00:00.6	J2000.00	1.223	180.1	13:48:51.6	0.0	z	Gunn	1 x 1	
236235	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.536	180.1	18:36:19.3	0.0	U	RGO	1 x 1	
236236	Sky background	22:58:00.00	+00:04:59.9	J2000.00	1.229	180.1	18:52:31.5	60.1	V	Harris	1 x 1	
236237	Sky background	22:58:01.99	+00:05:30.0	J2000.00	1.223	180.1	18:54:52.8	80.0	V	Harris	1 x 1	
236238	Sky background	22:58:03.99	+00:05:59.9	J2000.00	1.216	180.1	18:57:36.1	199.9	V	Harris	1 x 1	
236239	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.141	180.1	19:22:24.2	60.1	U	RGO	1 x 1	
236240	sa113-163	21:42:35.49	+00:16:45.9	J2000.00	1.141	180.1	19:24:27.9	10.1	g	Sloan	1 x 1	
236241	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.142	180.1	19:25:41.7	10.1	r	Sloan	1 x 1	
236242	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.142	180.1	19:26:53.6	9.6	i	Sloan	1 x 1	
236243	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.143	180.1	19:28:11.5	20.0	z	Gunn	1 x 1	
236244	sa113-163	21:42:35.49	+00:16:45.9	J2000.00	1.144	180.1	19:29:35.3	10.1	V	Harris	1 x 1	
236245	G26-7	21:31:18.77	-09:47:26.7	J2000.00	1.301	180.1	19:35:03.3	20.1	U	RGO	1 x 1	4" seeing
236246	G26-7	21:31:18.77	-09:47:26.7	J2000.00	1.302	180.1	19:36:26.9	10.1	g	Sloan	1 x 1	
236247	G26-7	21:31:18.78	-09:47:26.6	J2000.00	1.304	180.1	19:37:40.3	10.1	r	Sloan	1 x 1	
236248	G26-7	21:31:18.77	-09:47:26.7	J2000.00	1.305	180.1	19:38:57.0	10.1	i	Sloan	1 x 1	
236249	G26-7	21:31:18.77	-09:47:26.7	J2000.00	1.307	180.1	19:40:10.6	20.1	z	Gunn	1 x 1	
236250	G26-7	21:31:18.77	-09:47:26.6	J2000.00	1.309	180.1	19:41:34.4	10.1	V	Harris	1 x 1	
236251	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.159	180.1	19:49:45.5	60.1	U	RGO	1 x 1	3.5s seeing
236252	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.161	180.1	19:51:49.5	10.1	g	Sloan	1 x 1	
236253	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.162	180.1	19:53:03.9	10.1	r	Sloan	1 x 1	
236254	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.164	180.1	19:54:15.9	10.1	i	Sloan	1 x 1	
236255	sa113-163	21:42:35.49	+00:16:45.9	J2000.00	1.165	180.1	19:55:29.6	20.1	z	Gunn	1 x 1	
236256	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.167	180.1	19:56:52.6	9.6	V	Harris	1 x 1	
236257											1 x 1	
236264	Bias	21:42:35.49	+00:16:45.9	J2000.00	1.209	180.1	20:24:57.1	0.0	U	RGO	1 x 1	cycled obssys
236265	sa113-163	21:42:35.50	+00:16:45.8	J2000.00	1.213	180.1	20:26:33.1	60.1	U	RGO	1 x 1	3s seeing
236266	sa113-163	21:42:35.49	+00:16:46.0	J2000.00	1.217	180.1	20:28:38.2	10.1	g	Sloan	1 x 1	
236267	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.219	180.1	20:29:54.0	10.1	r	Sloan	1 x 1	
236268	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.222	180.1	20:31:06.2	10.1	i	Sloan	1 x 1	
236269	sa113-163	21:42:35.49	+00:16:45.9	J2000.00	1.224	180.1	20:32:20.0	20.1	z	Gunn	1 x 1	
236270	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.227	180.1	20:33:43.1	10.1	V	Harris	1 x 1	
236271	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.065	180.1	20:47:13.5	319.8	r	Sloan	1 x 1	2.5s seeing.
236272	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.058	180.1	20:53:58.8	319.8	r	Sloan	1 x 1	
236273	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.052	180.1	21:00:39.7	319.8	i	Sloan	1 x 1	
236274	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.047	180.1	21:07:16.6	319.3	i	Sloan	1 x 1	
236275	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.039	180.1	21:14:57.8	319.7	r	Sloan	1 x 1	
236276	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.035	180.1	21:21:34.7	319.7	r	Sloan	1 x 1	
236277	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.031	180.1	21:28:17.4	319.7	i	Sloan	1 x 1	
236278	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.028	180.1	21:34:55.4	319.7	i	Sloan	1 x 1	
236279	sa113-163	21:42:35.49	+00:16:45.8	J2000.00	1.475	180.1	21:43:19.0	60.1	U	RGO	1 x 1	
236280	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.484	180.1	21:45:26.1	10.1	g	Sloan	1 x 1	
236281	sa113-163	21:42:35.50	+00:16:46.1	J2000.00	1.491	180.1	21:46:39.9	10.1	r	Sloan	1 x 1	
236282	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.497	180.1	21:47:51.7	10.1	i	Sloan	1 x 1	
236283	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.505	180.1	21:49:04.9	20.1	z	Gunn	1 x 1	
236284	sa113-163	21:42:35.49	+00:16:46.0	J2000.00	1.512	180.1	21:50:28.4	10.1	V	Harris	1 x 1	
236285	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.579	180.1	22:00:44.6	59.6	U	RGO	1 x 1	
236286	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.590	180.1	22:02:51.9	10.1	g	Sloan	1 x 1	
236287	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.598	180.1	22:04:05.6	10.1	r	Sloan	1 x 1	
236288	sa113-163	21:42:35.49	+00:16:45.9	J2000.00	1.607	180.1	22:05:17.8	10.1	i	Sloan	1 x 1	
236289	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.616	180.1	22:06:31.8	20.1	z	Gunn	1 x 1	
236290	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.625	180.1	22:07:55.5	10.1	V	Harris	1 x 1	
236291	sa113-163	21:42:35.49	+00:16:46.0	J2000.00	1.708	180.1	22:18:10.3	60.1	U	RGO	1 x 1	
236292	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.722	180.1	22:20:14.8	10.1	g	Sloan	1 x 1	
236293	sa113-163	21:42:35.49	+00:16:45.9	J2000.00	1.733	180.1	22:21:28.5	10.1	r	Sloan	1 x 1	
236294	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.743	180.1	22:22:41.4	10.1	i	Sloan	1 x 1	
236295	sa113-163	21:42:35.49	+00:16:46.0	J2000.00	1.755	180.1	22:23:56.2	20.1	z	Gunn	1 x 1	
236296	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.767	180.1	22:25:20.1	10.1	V	Harris	1 x 1	
236297	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	2.008	180.1	22:47:13.2	60.1	U	RGO	1 x 1	
236298	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	2.029	180.1	22:49:16.9	10.1	g	Sloan	1 x 1	

236299	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	2.045	180.1	22:50:31.8	10.1	r	Sloan	1 x 1
236300	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	2.062	180.1	22:51:45.0	10.1	i	Sloan	1 x 1
236301	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	2.080	180.1	22:52:58.7	20.1	z	Gunn	1 x 1
236302	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	2.098	180.1	22:54:23.2	10.1	V	Harris	1 x 1
236303	sa92-335	0:54:58.29	+00:44:00.8	J2000.00	1.178	180.1	23:20:44.9	60.1	U	RGO	1 x 1
236304	sa92-335	0:54:58.29	+00:44:00.9	J2000.00	1.180	180.1	23:22:48.7	10.1	g	Sloan	1 x 1
236305	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.182	180.1	23:24:02.4	10.1	r	Sloan	1 x 1
236306	sa92-335	0:54:58.30	+00:44:00.9	J2000.00	1.184	180.1	23:25:13.7	9.6	i	Sloan	1 x 1
236307	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.186	180.1	23:26:27.2	20.1	z	Gunn	1 x 1
236308	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.188	180.1	23:27:50.4	10.1	V	Harris	1 x 1
236309	Focus run	0:54:58.30	+00:46:01.0	J2000.00	1.206	180.1	23:40:15.7	30.1	V	Harris	1 x 1
236310	Focus run	0:54:58.30	+00:46:01.0	J2000.00	1.239	180.1	23:55:25.8	30.1	V	Harris	1 x 1
236311	Focus run	0:54:58.30	+00:46:01.0	J2000.00	1.275	180.1	00:09:32.7	30.1	V	Harris	1 x 1
236313	Bias	0:54:58.29	+00:48:01.0	J2000.00	1.352	180.1	00:30:27.3	0.0	V	Harris	1 x 1
236314	Focus run	4:05:33.44	+31:31:49.8	J2000.00	1.105	180.1	03:25:43.6	30.1	V	Harris	1 x 1
236315	sa98-670	6:52:11.49	-00:19:15.9	J2000.00	1.161	180.1	03:33:59.2	60.1	U	RGO	1 x 1
236316	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.160	180.1	03:36:05.1	10.1	g	Sloan	1 x 1
236317	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.158	180.1	03:37:22.9	10.1	r	Sloan	1 x 1
236320	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.151	180.1	03:48:46.6	10.1	i	Sloan	1 x 1
236321	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.150	180.1	03:50:10.6	20.1	z	Gunn	1 x 1
236322	wfsj0347+2400-iz93	3:50:06.00	+26:23:00.0	J2000.00	1.257	180.1	03:53:54.0	799.2	i	Sloan	1 x 1
236323	wfsj0347+2400-iz93	3:50:06.00	+26:23:00.1	J2000.00	1.330	180.1	04:08:45.5	1198.1	z	Gunn	1 x 1
236324	wfsj0347+2400-iz94	3:42:19.99	+26:20:00.0	J2000.00	1.468	180.1	04:31:11.6	798.8	i	Sloan	1 x 1
236325	wfsj0801+4019_001	7:55:16.10	+38:59:00.0	J2000.00	1.017	180.1	05:02:13.6	799.5	z	Gunn	1 x 1
236326	wfsj0801+4019_001	7:55:16.10	+38:59:00.0	J2000.00	1.016	180.1	05:16:37.6	799.2	i	Sloan	1 x 1
236327	wfsj0801+4019_002	7:55:14.20	+39:18:59.9	J2000.00	1.021	180.1	05:33:39.1	799.3	i	Sloan	1 x 1
236328	wfsj0801+4019_002	7:55:14.20	+39:18:59.9	J2000.00	1.027	180.1	05:48:03.5	799.3	z	Gunn	1 x 1
236329	wfsj0801+4019_003	7:55:12.40	+39:38:59.8	J2000.00	1.037	180.1	06:04:07.4	599.4	i	Sloan	1 x 1
236330	wfsj0801+4019_003	7:55:12.39	+39:38:59.9	J2000.00	1.046	180.1	06:15:20.5	599.3	z	Gunn	1 x 1
236331	sa98-670	6:52:11.49	-00:19:15.9	J2000.00	1.377	180.1	06:27:59.7	60.1	U	RGO	1 x 1
236332	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.383	180.1	06:30:03.4	10.1	g	Sloan	1 x 1
236333	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.388	180.1	06:31:16.8	10.1	r	Sloan	1 x 1
236334	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.393	180.1	06:32:28.9	10.1	i	Sloan	1 x 1
236335	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.399	180.1	06:33:44.0	10.1	z	Gunn	1 x 1
236336	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.404	180.1	06:34:58.6	10.1	V	Harris	1 x 1