INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:              INT
DATE:                   20001119
TAPE NR:                INTD
OBSERVER:               Peter Bunclark
PROGRAMME:              Wide-Field Survey
PATT/CAT REF.:          WFS9+M31
TELESCOPE OPERATOR:
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) good
                        (2nd half) good
CLOUD COVER (%):        (1st half) 0
                        (2nd half) 0
DUST (0-2):             (1st half) 0
                        (2nd half) 0
SEEING (arcsec):        (1st half) 1.1H3
                        (2nd half) 1.3

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	5.4	38	23.2	28.3	38	770.1	6.1	9.2	10.1	36	29
20:00	4.9	44	30.4	33.0	23	770.5	5.2	7.8	9.8	43	35
21:00	5.1	41	24.4	26.7	27	771.0	5.5	8.0	9.7	41	33
22:00	4.3	37	27.8	28.9	20	771.0	4.6	7.5	9.5	34	26
23:00	4.6	35	23.9	25.0	7	771.3	4.9	7.1	8.8	32	25
00:00	4.8	32	24.3	28.1	2	771.1	5.2	6.4	8.7	30	27
01:00	4.2	14	27.0	29.6	3	770.8	4.7	7.2	8.4	13	14
02:00	4.7	14	20.7	22.7	10	770.3	5.2	7.5	8.5	13	13
03:00	5.3	15	25.1	26.7	15	770.1	5.8	7.1	8.8	13	14
04:00	3.2	60	27.7	30.4	15	769.8	3.6	5.9	8.5	58	47
05:00	3.4	66	25.3	27.5	13	769.7	3.8	6.5	8.5	65	52
06:00	3.4	69	24.2	25.8	13	769.8	4.0	6.7	8.2	65	53
07:00	3.6	68	22.8	24.9	2	770.1	4.1	6.3	8.1	64	55

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SUNSET(UT)              18:24
EVENING TWILIGHT(UT)    19:38
MORNING TWILIGHT(UT)    06:16
SUNRISE(UT)             07:31
MOON'S QUARTER (1-4)    4
DISK % OF ILLUM.        39
DARK TIME               10:38
TWILIGHT TIME           02:29
MOONRISE(UT)            02:04
MOONSET(UT)             No moonset within sunset-sunrise

TIME LOST(WEATHER):     00:00
TIME LOST(TECHNICAL):   04:00
TIME LOST(OTHER):       00:00
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COMMENTS:
Dome would not move under computer control; 1 hour technical help

followed by uch reduced efficiency.

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
236457	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	15:20:26.3	0.0	z	Gunn	1 x 1	
236458	File not available											
236459	Sky background	22:58:00.00	+00:05:00.0	J2000.00	1.279	180.1	18:24:56.5	0.5	U	RGO	1 x 1	
236460	Sky background	22:58:00.00	+00:05:00.0	J2000.00	1.274	180.1	18:26:34.5	0.5	U	RGO	1 x 1	
236461	Sky background	22:58:02.00	+00:05:29.9	J2000.00	1.271	180.1	18:27:55.7	0.5	U	RGO	1 x 1	
236462	Sky background	22:58:00.00	+00:05:00.0	J2000.00	1.267	180.1	18:29:19.8	0.5	z	Gunn	1 x 1	
236463	Sky background	22:58:01.99	+00:05:29.9	J2000.00	1.263	180.1	18:30:40.8	0.5	z	Gunn	1 x 1	
236464	Sky background	22:58:04.00	+00:05:59.9	J2000.00	1.260	180.1	18:32:05.7	0.5	z	Gunn	1 x 1	
236465	Sky background	22:58:04.00	+00:06:00.0	J2000.00	1.257	180.1	18:33:08.9	0.5	V	Harris	1 x 1	
236466	Sky background	22:58:01.99	+00:05:29.8	J2000.00	1.254	180.1	18:34:21.5	0.5	V	Harris	1 x 1	
236467	Sky background	22:58:00.00	+00:05:00.0	J2000.00	1.251	180.1	18:35:28.1	0.5	V	Harris	1 x 1	
236468	Sky background	22:58:00.00	+00:05:00.0	J2000.00	1.249	180.1	18:36:23.3	0.5	g	Sloan	1 x 1	
236469	Sky background	22:58:02.00	+00:05:29.9	J2000.00	1.246	180.1	18:37:37.9	0.9	g	Sloan	1 x 1	
236470	Sky background	22:58:04.00	+00:06:00.1	J2000.00	1.243	180.1	18:38:41.2	1.2	g	Sloan	1 x 1	
236471	Sky background	22:58:04.00	+00:05:59.9	J2000.00	1.241	180.1	18:39:36.8	1.1	r	Sloan	1 x 1	
236472	Sky background	22:58:01.99	+00:05:30.0	J2000.00	1.238	180.1	18:40:42.6	3.1	r	Sloan	1 x 1	
236473	Sky background	22:58:04.00	+00:06:00.0	J2000.00	1.236	180.1	18:41:50.4	5.1	r	Sloan	1 x 1	
236474	Sky background	22:58:03.99	+00:06:00.0	J2000.00	1.233	180.1	18:42:51.2	5.1	i	Sloan	1 x 1	
236475	Sky background	22:58:02.00	+00:05:30.0	J2000.00	1.231	180.1	18:44:10.4	8.1	i	Sloan	1 x 1	
236476	Sky background	22:58:00.00	+00:05:00.0	J2000.00	1.228	180.1	18:45:26.4	15.1	i	Sloan	1 x 1	
236477	M31-microfld1	0:44:00.00	+41:33:59.6	J2000.00	1.031	180.1	21:26:24.7	319.8	r	Sloan	1 x 1	dome manual
236478	M31-microfld1	0:43:59.99	+41:33:59.9	J2000.00	1.029	180.1	21:33:04.0	319.7	r	Sloan	1 x 1	
236479	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.027	180.1	21:39:43.5	319.7	i	Sloan	1 x 1	
236480	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.026	180.1	21:46:25.2	319.8	i	Sloan	1 x 1	
236481	M31-microfld2	0:43:09.99	+40:58:14.9	J2000.00	1.023	180.1	21:54:07.6	319.7	r	Sloan	1 x 1	
236482	M31-microfld2	0:43:09.99	+40:58:15.0	J2000.00	1.023	180.1	22:00:45.2	319.7	r	Sloan	1 x 1	
236483	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.024	180.1	22:07:22.2	319.7	i	Sloan	1 x 1	
236484	M31-microfld2	0:43:09.99	+40:58:15.0	J2000.00	1.025	180.1	22:13:59.5	319.8	i	Sloan	1 x 1	
236485	sa92-335	0:54:58.30	+00:44:00.9	J2000.00	1.135	180.1	22:25:12.3	60.1	U	RGO	1 x 1	
236486	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.136	180.1	22:27:16.0	10.1	g	Sloan	1 x 1	
236487	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.136	180.1	22:28:29.4	10.1	r	Sloan	1 x 1	
236488	sa92-335	0:54:58.30	+00:44:00.9	J2000.00	1.137	180.1	22:29:41.4	10.1	i	Sloan	1 x 1	
236489	sa92-335	0:54:58.30	+00:44:00.9	J2000.00	1.137	180.1	22:30:54.7	19.6	z	Gunn	1 x 1	
236490	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.138	180.1	22:32:18.1	10.1	V	Harris	1 x 1	
236491	wfssgc052	23:42:00.00	+00:00:00.0	J2000.00	1.296	180.1	22:45:13.7	599.4	U	RGO	1 x 1	
236492	wfssgc052	23:42:00.00	-00:00:00.0	J2000.00	1.344	180.1	22:59:19.6	599.5	r	Sloan	1 x 1	
236493	wfssgc052	23:42:00.00	-00:00:00.0	J2000.00	1.388	180.1	23:10:30.7	599.5	i	Sloan	1 x 1	
236494	wfssgc052	23:42:00.00	+00:00:00.0	J2000.00	1.438	180.1	23:21:41.7	599.5	z	Gunn	1 x 1	
236495	M33	1:33:44.99	+30:31:39.9	J2000.00	1.028	180.1	23:44:21.8	599.4	V	Harris	1 x 1	
236496	wfssgc124	2:06:00.00	-00:00:00.0	J2000.00	1.166	180.1	00:03:42.4	599.4	r	Sloan	1 x 1	
236497	wfssgc124	2:06:00.00	-00:00:00.0	J2000.00	1.180	180.1	00:14:54.5	599.3	i	Sloan	1 x 1	
236498	wfssgc124	2:06:00.00	-00:00:00.0	J2000.00	1.197	180.1	00:26:06.8	599.5	z	Gunn	1 x 1	
236499	wfssgc124	2:06:00.00	-00:00:00.0	J2000.00	1.222	180.1	00:39:21.2	599.5	U	RGO	1 x 1	
236500	wfssgc151	3:00:00.00	-00:00:00.0	J2000.00	1.161	180.1	00:52:47.5	599.3	U	RGO	1 x 1	
236501	wfssgc151	3:00:00.00	+00:00:00.0	J2000.00	1.174	180.1	01:04:01.3	599.5	r	Sloan	1 x 1	
236502	wfssgc151	2:59:59.99	-00:00:00.0	J2000.00	1.190	180.1	01:15:14.9	599.3	g	Sloan	1 x 1	
236503	wfssgc151	3:00:00.00	+00:00:00.0	J2000.00	1.209	180.1	01:26:28.3	599.6	i	Sloan	1 x 1	
236504	wfssgc151	3:00:00.00	+00:00:00.0	J2000.00	1.231	180.1	01:37:40.4	599.4	z	Gunn	1 x 1	
236505	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.352	180.1	01:56:47.8	60.0	U	RGO	1 x 1	
236506	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.346	180.1	01:58:53.3	10.1	g	Sloan	1 x 1	
236507	sa98-670	6:52:11.49	-00:19:16.0	J2000.00	1.342	180.1	02:00:06.9	10.1	r	Sloan	1 x 1	
236508	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.337	180.1	02:01:19.7	10.1	i	Sloan	1 x 1	
236509	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.333	180.1	02:02:33.4	10.1	z	Gunn	1 x 1	
236510	sa98-670	6:52:11.49	-00:19:16.0	J2000.00	1.329	180.1	02:03:47.7	10.1	V	Harris	1 x 1	
236511	wfsj-801+4019_001	7:55:16.10	+38:58:59.9	J2000.00	1.244	180.1	02:13:31.9	599.4	U	RGO	1 x 1	
236512	wfsj-801+4019_001	7:55:16.10	+38:58:59.9	J2000.00	1.210	180.1	02:24:49.0	599.4	g	Sloan	1 x 1	
236513	wfsj-801+4019_001	7:55:16.09	+38:58:59.9	J2000.00	1.181	180.1	02:36:01.3	599.4	r	Sloan	1 x 1	
236514	wfsj-801+4019_002	7:55:14.19	+39:19:00.1	J2000.00	1.150	180.1	02:49:22.3	599.5	U	RGO	1 x 1	

236515	wfsj-801+4019_002	7:55:14.20	+39:19:00.0	J2000.00	1.127	180.1	03:00:34.6	599.2	g	Sloan	1 x 1	
236516	wfsj-801+4019_002	7:55:14.20	+39:19:00.0	J2000.00	1.106	180.1	03:11:59.3	599.4	r	Sloan	1 x 1	
236517	wfsj-801+4019_003	7:55:12.40	+39:39:00.1	J2000.00	1.086	180.1	03:25:45.0	599.5	U	RGO	1 x 1	
236518	wfsj-801+4019_003	7:55:12.40	+39:38:59.9	J2000.00	1.071	180.1	03:36:57.6	599.4	g	Sloan	1 x 1	
236519	wfsj-801+4019_003	7:55:12.40	+39:39:00.0	J2000.00	1.057	180.1	03:48:38.8	599.5	r	Sloan	1 x 1	
236520	wfsj-801+4019_008	7:55:02.59	+41:18:59.9	J2000.00	1.049	180.1	04:02:48.3	599.4	U	RGO	1 x 1	
236521	wfsj-801+4019_008	7:55:02.59	+41:19:00.0	J2000.00	1.041	180.1	04:14:01.3	599.6	g	Sloan	1 x 1	
236522	wfsj-801+4019_008	7:55:02.59	+41:19:00.0	J2000.00	1.034	180.1	04:25:13.8	599.5	r	Sloan	1 x 1	
236523	wfsj-801+4019_008	7:55:02.60	+41:19:00.0	J2000.00	1.029	180.1	04:36:26.9	599.4	i	Sloan	1 x 1	
236524	wfsj-801+4019_008	7:55:02.60	+41:19:00.0	J2000.00	1.026	180.1	04:47:39.4	599.3	z	Gunn	1 x 1	
236525	wfsjsextans_005	10:13:03.00	-01:16:59.9	J2000.00	1.401	180.1	05:06:46.6	299.3	i	Sloan	1 x 1	
236526	wfsjsextans_005	10:13:03.00	-01:17:00.0	J2000.00	1.376	180.1	05:12:58.7	299.8	V	Harris	1 x 1	
236527	wfsjsextans_006	10:11:00.99	-01:16:59.9	J2000.00	1.338	180.1	05:21:03.7	299.7	i	Sloan	1 x 1	
236528	wfsjsextans_006	10:11:01.00	-01:16:59.9	J2000.00	1.318	180.1	05:27:17.4	299.7	V	Harris	1 x 1	
236529	wfsjsextans_007	10:15:04.99	-01:37:00.4	J2000.00	1.315	180.1	05:33:55.5	299.8	i	Sloan	1 x 1	
236530	wfsjsextans_007	10:15:05.00	-01:36:59.9	J2000.00	1.296	180.1	05:40:07.6	299.1	V	Harris	1 x 1	
236531	wfsjsextans_007	10:15:05.00	-01:36:59.8	J2000.00	1.273	180.1	05:48:47.6	299.8	V	Harris	1 x 1	
236532	wfsjsextans_007	10:13:03.00	-01:37:00.0	J2000.00	1.249	180.1	05:56:46.2	299.7	i	Sloan	1 x 1	
236533	wfsjsextans_007	10:13:03.00	-01:36:59.9	J2000.00	1.236	180.1	06:02:58.3	299.7	V	Harris	1 x 1	_008
236534	wfsjsextans_009	10:11:01.00	-01:36:59.9	J2000.00	1.215	180.1	06:12:29.7	299.3	i	Sloan	1 x 1	
236535	wfsjsextans_009	10:11:01.00	-01:37:00.0	J2000.00	1.205	180.1	06:18:41.8	299.8	V	Harris	1 x 1	
236536	sa101-427	9:57:26.49	-00:17:17.9	J2000.00	1.166	180.1	06:25:22.3	20.1	U	RGO	1 x 1	
236537	sa101-427	9:57:26.50	-00:17:18.0	J2000.00	1.165	180.1	06:26:45.9	10.1	g	Sloan	1 x 1	
236538	sa101-427	9:57:26.50	-00:17:18.0	J2000.00	1.164	180.1	06:27:59.7	10.1	r	Sloan	1 x 1	
236539	sa101-427	9:57:26.50	-00:17:18.0	J2000.00	1.162	180.1	06:29:11.7	10.1	i	Sloan	1 x 1	
236540	sa101-427	9:57:26.50	-00:17:17.9	J2000.00	1.161	180.1	06:30:25.9	20.1	z	Gunn	1 x 1	
236541	sa101-427	9:57:26.50	-00:17:17.9	J2000.00	1.160	180.1	06:31:54.1	10.1	V	Harris	1 x 1	
236542	Sky background	10:10:09.99	+28:00:00.0	J2000.00	1.007	180.1	06:52:38.6	100.0	g	Sloan	1 x 1	
236543	Sky background	10:10:12.26	+28:00:30.0	J2000.00	1.005	180.1	06:55:39.6	99.5	g	Sloan	1 x 1	
236544	Sky background	10:10:14.53	+28:00:59.9	J2000.00	1.004	180.1	06:58:36.3	50.1	g	Sloan	1 x 1	
236545	Sky background	10:10:14.53	+28:00:59.9	J2000.00	1.004	180.1	07:00:60.0	50.1	r	Sloan	1 x 1	
236546	Sky background	10:10:12.26	+28:00:30.0	J2000.00	1.003	180.1	07:03:00.4	30.1	r	Sloan	1 x 1	
236547	Sky background	10:10:10.00	+28:00:00.0	J2000.00	1.003	180.1	07:04:42.8	30.1	r	Sloan	1 x 1	
236548	Sky background	10:10:10.00	+27:59:59.9	J2000.00	1.002	180.1	07:06:35.3	20.1	i	Sloan	1 x 1	
236549	Sky background	10:10:12.26	+28:00:29.9	J2000.00	1.002	180.1	07:08:13.1	15.1	i	Sloan	1 x 1	
236550	Sky background	10:10:14.52	+28:01:00.0	J2000.00	1.001	180.1	07:09:56.4	5.1	i	Sloan	1 x 1	
236551	Sky background	10:10:14.53	+28:00:59.9	J2000.00	1.001	180.1	07:11:19.0	5.1	z	Gunn	1 x 1	
236552	Sky background	10:10:12.26	+28:00:30.0	J2000.00	1.001	180.1	07:12:38.7	10.1	z	Gunn	1 x 1	
236553	Sky background	10:10:14.53	+28:00:59.9	J2000.00	1.001	180.1	07:13:59.2	10.1	z	Gunn	1 x 1	
236554	Sky background	10:10:14.53	+28:01:00.0	J2000.00	1.001	180.1	07:15:19.6	10.1	U	RGO	1 x 1	
236555	Sky background	10:10:14.53	+28:01:00.0	J2000.00	1.000	180.1	07:16:39.0	7.1	U	RGO	1 x 1	
236556	Sky background	10:10:12.26	+28:00:29.9	J2000.00	1.000	180.1	07:18:01.6	3.6	U	RGO	1 x 1	
236557	Sky background	10:10:09.99	+27:59:59.9	J2000.00	1.000	180.1	07:19:08.5	4.1	U	RGO	1 x 1	
236558	Bias	0:00:00.00	+00:00:00.0	J2000.00	2.900	180.1	07:23:08.4	0.0	U	RGO	1 x 1	
236559	Bias	0:00:00.00	+00:00:00.0	J2000.00	2.900	180.1	07:23:47.5	0.0	U	RGO	1 x 1	
236560	Bias	0:00:00.00	+00:00:00.0	J2000.00	2.900	180.1	07:24:26.7	0.0	U	RGO	1 x 1	
236561	Bias	0:00:00.00	+00:00:00.0	J2000.00	2.900	180.1	07:25:05.9	0.0	U	RGO	1 x 1	
236562	Bias	0:00:00.00	+00:00:00.0	J2000.00	2.866	180.1	07:25:45.2	0.0	U	RGO	1 x 1	