INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:            INT
DATE:                 20001120
TAPE NR:              INTD
OBSERVER:             P Bunclark
PROGRAMME:            Wide-Field Survey
PATT/CAT REF.:        WFS9+M31
TELESCOPE OPERATOR:
SUPPORT ASTRONOMER:

TELESCOPE FOCUS:      46.1 mm
CALIBRATE RESULTS:    HI 33.9 +/- 4.8, DI -38.5 +/- 1.6, HC 60.3 +/- 3.4, Sky sigma 4.2

INSTRUMENT:           WFC

WFC FILTER WHEEL:     UgriZV

WEATHER:              (1st half) good
                      (2nd half) fair
CLOUD COVER (%):      (1st half) 0
                      (2nd half) 0
DUST (0-2):           (1st half) 0
                      (2nd half) 0
SEEING (arcsec):      (1st half) 1.6
                      (2nd half) 1.2

DOME OPENED (UT):     18:30
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METEOROLOGICAL PARAMETERS

LT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
19:00	3.5	64	23.3	26.4	335	770.4	4.0	5.6	9.2	60	54
20:00	3.3	64	25.2	26.5	345	771.1	4.0	6.8	8.8	61	50
21:00	2.9	66	28.0	29.4	342	771.3	3.8	6.3	8.5	65	52
22:00	2.4	85	23.0	24.7	355	771.6	3.0	6.1	8.2	86	65
23:00	2.8	84	25.0	26.1	355	771.8	3.0	6.0	7.9	85	69
00:00	2.5	84	33.6	34.6	342	771.3	3.1	4.9	7.1	81	69
01:00	2.4	81	23.6	25.1	351	771.1	2.8	5.1	7.4	71	60
02:00	2.2	86	28.9	29.6	339	770.9	2.8	4.1	6.2	82	77
03:00	2.6	77	21.1	21.5	324	770.8	3.2	4.6	5.6	73	69
04:00	2.2	88	21.5	23.6	292	770.5	2.7	4.6	7.2	82	74
05:00	1.9	93	31.3	33.2	324	770.0	2.8	4.1	7.2	88	81
06:00	2.1	88	21.0	23.2	315	770.2	2.3	5.5	7.0	92	75
07:00	2.0	77	21.4	22.1	277	770.5	2.5	5.7	7.2	74	64

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SUNSET(UT)            18:24
EVENING TWILIGHT(UT)  19:38
MORNING TWILIGHT(UT)  06:17
SUNRISE(UT)           07:31
MOON'S QUARTER (1-4)  4
DISK % OF ILLUM.      29
DARK TIME             10:39
TWILIGHT TIME         02:28
MOONRISE(UT)          03:05
MOONSET(UT)           No moonset within sunset-sunrise

TIME LOST(WEATHER):   02:30
TIME LOST(TECHNICAL): 00:30
TIME LOST(OTHER):     00:00

COMMENTS:
  Closed at 5am Wet.
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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
236563	File not available deleted											
236564	File not available deleted											
236565	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	18:23:50.4	0.0	V	Harris	1 x 1	
236566	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	18:25:38.5	0.0	V	Harris	1 x 1	
236567	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	18:27:15.5	0.0	V	Harris	1 x 1	
236568	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	18:27:54.5	0.0	V	Harris	1 x 1	
236569	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	18:28:33.6	0.0	V	Harris	1 x 1	
236570	Sky background	22:58:00.00	+00:05:00.0	J2000.00	1.232	180.1	18:39:45.6	0.5	U	RGO	1 x 1	
236571	Sky background	22:58:00.00	+00:05:00.0	J2000.00	1.227	180.1	18:42:02.1	1.1	U	RGO	1 x 1	
236572	Sky background	22:58:00.00	+00:05:00.0	J2000.00	1.222	180.1	18:44:33.9	1.1	z	Gunn	1 x 1	
236573	Sky background	22:58:02.01	+00:05:29.8	J2000.00	1.218	180.1	18:46:05.3	10.1	z	Gunn	1 x 1	
236574	Sky background	22:58:04.00	+00:06:00.0	J2000.00	1.215	180.1	18:47:32.6	19.6	r	Sloan	1 x 1	
236575	Sky background	22:58:01.99	+00:05:29.9	J2000.00	1.211	180.1	18:49:18.2	40.1	r	Sloan	1 x 1	
236576	Sky background	22:58:00.00	+00:04:59.9	J2000.00	1.207	180.1	18:51:19.1	60.1	r	Sloan	1 x 1	
236577	Sky background	22:58:00.00	+00:04:59.9	J2000.00	1.204	180.1	18:53:13.9	60.0	i	Sloan	1 x 1	
236578	Sky background	22:58:02.00	+00:05:29.9	J2000.00	1.199	180.1	18:55:28.2	120.0	i	Sloan	1 x 1	
236579	Sky background	22:58:03.99	+00:06:00.0	J2000.00	1.193	180.1	18:58:38.2	199.9	i	Sloan	1 x 1	
236580	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.149	180.1	19:25:23.3	60.0	U	RGO	1 x 1	
236581	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.150	180.1	19:27:27.3	10.1	g	Sloan	1 x 1	
236582	sa113-163	21:42:35.49	+00:16:46.0	J2000.00	1.151	180.1	19:28:40.2	10.1	r	Sloan	1 x 1	
236583	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.152	180.1	19:29:51.9	10.1	i	Sloan	1 x 1	
236584	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.153	180.1	19:31:09.0	20.1	z	Gunn	1 x 1	
236585	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.154	180.1	19:32:38.8	10.1	V	Harris	1 x 1	
236586	wfsj2240+0000_037	22:43:12.10	-01:19:59.9	J2000.00	1.157	180.1	19:37:36.6	599.4	U	RGO	1 x 1	
236587	wfsj2240+0000_038	22:43:11.99	-00:59:59.8	J2000.00	1.152	180.1	19:49:32.5	599.4	U	RGO	1 x 1	
236589	wfsj2240+0000_043	22:43:12.00	+00:40:00.2	J2000.00	1.139	180.1	20:11:28.8	599.4	U	RGO	1 x 1	
236590	wfsj2240+0000_050	22:45:20.00	-00:00:00.0	J2000.00	1.152	180.1	20:23:31.4	599.5	U	RGO	1 x 1	
236591	wfssgc108	1:33:59.99	+00:00:00.0	J2000.00	1.315	180.1	20:37:46.5	899.1	g	Sloan	1 x 1	
236592	wfssgc108	1:34:00.33	+00:00:04.9	J2000.00	1.268	180.1	20:53:41.5	899.1	g	Sloan	1 x 1	
236593	wfssgc108	1:34:00.33	+00:00:05.0	J2000.00	1.229	180.1	21:09:55.2	899.1	r	Sloan	1 x 1	
236594	wfssgc108	1:34:00.00	-00:00:00.0	J2000.00	1.198	180.1	21:25:50.6	899.1	r	Sloan	1 x 1	
236595	wfssgc109	1:36:00.00	+00:00:00.0	J2000.00	1.175	180.1	21:43:12.1	899.2	g	Sloan	1 x 1	
236596	wfssgc108	1:36:00.33	+00:00:05.1	J2000.00	1.142	180.1	22:27:53.6	898.6	g	Sloan	1 x 1	=wfssgc109
236598	wfssgc109	1:36:00.33	+00:00:04.9	J2000.00	1.141	180.1	22:48:08.2	899.3	r	Sloan	1 x 1	
236599	wfssgc109	1:36:00.00	+00:00:00.0	J2000.00	1.147	180.1	23:04:03.1	899.3	r	Sloan	1 x 1	
236600	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.082	180.1	23:22:31.3	319.8	r	Sloan	1 x 1	
236601	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.091	180.1	23:29:08.8	319.8	r	Sloan	1 x 1	
236602	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.147	180.1	00:02:12.7	319.8	i	Sloan	1 x 1	
236603	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.161	180.1	00:08:50.2	319.8	i	Sloan	1 x 1	
236604	M31-microfld2	0:43:09.98	+40:58:15.2	J2000.00	1.179	180.1	00:16:34.8	319.7	r	Sloan	1 x 1	
236605	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.195	180.1	00:23:12.8	319.7	r	Sloan	1 x 1	
236606	M31-microfld2	0:43:09.99	+40:58:15.0	J2000.00	1.213	180.1	00:29:57.4	319.7	i	Sloan	1 x 1	
236607	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.232	180.1	00:36:34.9	319.8	i	Sloan	1 x 1	
236608	sa95-330	3:54:30.69	+00:29:04.6	J2000.00	1.139	180.1	00:44:21.0	60.1	U	RGO	1 x 1	bad - mirror
236609	sa95-330	3:54:30.70	+00:29:05.0	J2000.00	1.139	180.1	00:46:24.6	10.1	g	Sloan	1 x 1	bad - mirror
236610	sa95-330	3:54:30.69	+00:29:05.1	J2000.00	1.138	180.1	00:47:38.8	10.1	r	Sloan	1 x 1	bad - mirror
236613	sa95-330	3:54:30.70	+00:29:04.9	J2000.00	1.137	180.1	00:49:46.9	60.0	U	RGO	1 x 1	
236614	sa95-330	3:54:30.70	+00:29:05.0	J2000.00	1.137	180.1	00:51:50.6	10.1	g	Sloan	1 x 1	
236615	sa95-330	3:54:30.70	+00:29:05.0	J2000.00	1.137	180.1	00:53:04.1	10.1	r	Sloan	1 x 1	
236616	sa95-330	3:54:30.69	+00:29:04.9	J2000.00	1.136	180.1	00:54:16.8	10.1	i	Sloan	1 x 1	
236617	sa95-330	3:54:30.70	+00:29:05.0	J2000.00	1.136	180.1	00:55:30.3	10.1	z	Gunn	1 x 1	
236618	sa95-330	3:54:30.70	+00:29:05.0	J2000.00	1.136	180.1	00:56:44.1	10.1	V	Harris	1 x 1	
236619	wfssgc149	2:55:59.99	+00:00:00.0	J2000.00	1.181	180.1	01:01:35.6	598.9	U	RGO	1 x 1	
236620	wfssgc149	2:56:00.00	+00:00:00.0	J2000.00	1.198	180.1	01:12:47.6	599.4	g	Sloan	1 x 1	
236621	wfssgc149	2:56:00.00	+00:00:00.0	J2000.00	1.219	180.1	01:23:58.6	599.0	r	Sloan	1 x 1	
236622	wfssgc149	2:56:00.00	+00:00:00.0	J2000.00	1.244	180.1	01:35:10.6	599.5	i	Sloan	1 x 1	
236623	wfssgc149	2:55:59.99	+00:00:00.0	J2000.00	1.272	180.1	01:46:22.0	599.4	z	Gunn	1 x 1	
236624	wfssgc150	2:58:00.00	+00:00:00.0	J2000.00	1.302	180.1	01:58:30.6	598.9	U	RGO	1 x 1	unguided (gs too
236625	wfssgc150	2:58:00.00	+00:00:00.0	J2000.00	1.339	180.1	02:09:35.6	599.5	g	Sloan	1 x 1	
236626	wfssgc150	2:58:00.00	+00:00:00.0	J2000.00	1.400	180.1	02:24:59.6	599.5	r	Sloan	1 x 1	

236627	wfssgc150	2:58:00.00	-00:00:00.0	J2000.00	1.455	180.1	02:36:39.6	599.6	i	Sloan	1 x 1
236628	wfssgc150	2:57:59.99	+00:00:00.0	J2000.00	1.519	180.1	02:48:32.7	599.4	z	Gunn	1 x 1
236629	wfsj0801+4019_009	7:55:00.51	+41:38:59.8	J2000.00	1.103	180.1	03:13:57.5	599.4	U	RGO	1 x 1
236630	wfsj0801+4019_009	7:55:00.50	+41:39:00.0	J2000.00	1.087	180.1	03:25:09.7	599.3	g	Sloan	1 x 1
236631	wfsj0801+4019_009	7:55:00.50	+41:38:59.9	J2000.00	1.073	180.1	03:36:20.7	598.9	r	Sloan	1 x 1
236632	wfsj0801+4019_009	7:55:00.49	+41:38:59.9	J2000.00	1.061	180.1	03:47:32.6	598.8	i	Sloan	1 x 1
236633	wfsj0801+4019_009	7:55:00.50	+41:38:59.9	J2000.00	1.051	180.1	03:58:45.4	599.4	z	Gunn	1 x 1
236634	wfsj0801+4019_010	7:57:50.40	+38:58:59.9	J2000.00	1.034	180.1	04:11:08.5	599.4	U	RGO	1 x 1
236635	wfsj0801+4019_010	7:57:50.40	+38:58:59.9	J2000.00	1.027	180.1	04:22:21.6	599.6	g	Sloan	1 x 1
236636	wfsj0801+4019_010	7:57:50.39	+38:59:00.0	J2000.00	1.022	180.1	04:33:33.9	599.4	r	Sloan	1 x 1
236637	wfsj0801+4019_010	7:57:50.39	+38:59:00.0	J2000.00	1.018	180.1	04:46:42.0	599.5	i	Sloan	1 x 1
236638	wfsj0801+4019_010	7:57:50.40	+38:59:00.0	J2000.00	1.016	180.1	04:57:53.8	599.4	z	Gunn	1 x 1
236639	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	05:29:08.2	0.0	z	Gunn	1 x 1
236640	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	05:29:47.3	0.0	z	Gunn	1 x 1
236641	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	05:30:26.8	0.0	z	Gunn	1 x 1
236642	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	05:31:06.2	0.0	z	Gunn	1 x 1
236643	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	05:31:45.2	0.0	z	Gunn	1 x 1
236644	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:11:16.5	0.0	z	Gunn	1 x 1
236645	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:12:39.4	0.0	z	Gunn	1 x 1
236646	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:15:32.8	0.0	z	Gunn	1 x 1
236647	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:16:34.0	0.0	z	Gunn	1 x 1
236648	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:18:16.8	0.0	z	Gunn	1 x 1
236649	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:19:19.8	0.0	z	Gunn	1 x 1
236650	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:21:13.6	0.0	z	Gunn	1 x 1
236651	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:28:41.4	0.0	z	Gunn	1 x 1
236652	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:33:35.4	0.0	z	Gunn	1 x 1
236653	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:40:46.9	0.0	z	Gunn	1 x 1
236654	Dark frame	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:41:46.2	10.0	z	Gunn	1 x 1
236655	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:44:52.3	0.0	z	Gunn	1 x 1
236656	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:45:53.6	0.0	z	Gunn	1 x 1
236657	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.535	180.1	11:52:02.2	0.0	z	Gunn	1 x 1