INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:             INT
DATE:                  20001118
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
                       (2nd half) 1

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	7.7	7	1.7	2.7	356	771.3	8.2	9.8	10.1	6	10
20:00	7.7	6	12.7	14.7	34	771.6	8.2	9.1	10.0	5	8
21:00	6.3	8	10.4	12.6	0	771.9	6.8	9.0	9.3	7	9
22:00	6.6	7	20.8	23.4	30	771.9	7.1	8.4	9.6	6	8
23:00	6.9	7	20.0	21.2	21	771.9	7.3	8.5	9.3	6	8
00:00	7.2	7	19.4	20.4	6	771.6	7.5	8.3	9.3	6	8
01:00	6.6	7	20.0	21.5	6	771.1	7.0	8.3	9.2	6	8
02:00	6.5	5	17.6	21.4	21	770.7	7.0	7.9	8.8	4	6
03:00	6.8	4	21.6	24.0	10	770.3	7.4	8.0	9.3	3	5
04:00	6.5	7	13.2	15.7	2	770.3	7.2	8.1	9.0	5	6
05:00	6.7	8	16.9	18.3	7	770.1	7.1	8.3	9.2	7	8
06:00	6.7	5	18.0	19.8	7	770.2	7.1	8.0	9.0	5	7
07:00	5.4	17	17.7	18.5	39	770.1	5.9	6.8	8.9	17	16

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SUNSET(UT)             18:24
EVENING TWILIGHT(UT)   19:39
MORNING TWILIGHT(UT)   06:15
SUNRISE(UT)            07:30
MOON'S QUARTER (1-4)   4
DISK % OF ILLUM.       49
DARK TIME              10:36
TWILIGHT TIME          02:30
MOONRISE(UT)           01:01
MOONSET(UT)            No moonset within sunset-sunrise

TIME LOST(WEATHER):    06:00
TIME LOST(TECHNICAL):  00:30
TIME LOST(OTHER):      00:00

COMMENTS:
  Totally perfect.
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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
236337	Bias	0:00:00.00	+00:00:00.0	A	4.344	180.1	14:05:14.4	0.0	V	Harris	1 x 1	
236338	Bias	0:00:00.00	+00:00:00.0	A	4.344	180.1	14:16:46.5	0.0	V	Harris	1 x 1	
236339	Bias frame	0:00:00.00	+00:00:00.0	A	4.344	180.1	16:42:58.0	0.0	V	Harris	1 x 1	
236340	Bias frame	0:00:00.00	+00:00:00.0	A	4.344	180.1	16:43:37.1	0.0	V	Harris	1 x 1	
236341	Bias frame	0:00:00.00	+00:00:00.0	A	4.344	180.1	16:44:16.3	0.0	V	Harris	1 x 1	
236342	Bias frame	0:00:00.00	+00:00:00.0	A	4.344	180.1	16:44:55.6	0.0	V	Harris	1 x 1	
236343	Bias frame	0:00:00.00	+00:00:00.0	A	4.344	180.1	16:45:35.0	0.0	V	Harris	1 x 1	
236344	Sky background	22:58:00.00	+00:04:59.9	J2000.00	1.291	180.1	18:24:37.6	0.5	U	RGO	1 x 1	early, or what?
236345	Sky background	22:58:02.00	+00:05:30.1	J2000.00	1.285	180.1	18:26:46.0	0.5	U	RGO	1 x 1	
236346	Sky background	22:58:04.00	+00:05:59.9	J2000.00	1.281	180.1	18:28:06.9	0.5	U	RGO	1 x 1	
236347	Sky background	22:58:06.00	+00:06:29.9	J2000.00	1.277	180.1	18:29:40.9	1.2	U	RGO	1 x 1	
236348	Sky background	22:58:07.99	+00:06:59.9	J2000.00	1.273	180.1	18:31:01.0	1.1	U	RGO	1 x 1	
236349	File not available satd, deleted											
236350	Sky background	22:58:08.00	+00:07:00.0	J2000.00	1.263	180.1	18:34:49.1	0.5	g	Sloan	1 x 1	
236351	Sky background	22:58:05.99	+00:06:29.8	J2000.00	1.259	180.1	18:36:05.8	0.5	g	Sloan	1 x 1	
236352	Sky background	22:58:04.00	+00:05:59.8	J2000.00	1.256	180.1	18:37:18.2	0.5	g	Sloan	1 x 1	
236353	Sky background	22:58:02.00	+00:05:29.9	J2000.00	1.253	180.1	18:38:31.7	0.5	r	Sloan	1 x 1	
236354	Sky background	22:57:59.99	+00:04:59.8	J2000.00	1.251	180.1	18:39:36.7	1.1	r	Sloan	1 x 1	
236355	Sky background	22:58:03.99	+00:05:59.9	J2000.00	1.247	180.1	18:41:06.7	2.1	r	Sloan	1 x 1	
236356	Sky background	22:58:04.00	+00:06:00.0	J2000.00	1.244	180.1	18:42:26.2	0.5	i	Sloan	1 x 1	
236357	Sky background	22:58:05.99	+00:06:30.0	J2000.00	1.241	180.1	18:43:30.6	2.1	i	Sloan	1 x 1	
236358	Sky background	22:58:08.00	+00:07:00.0	J2000.00	1.238	180.1	18:44:37.6	4.1	i	Sloan	1 x 1	
236359	Sky background	22:58:10.00	+00:07:30.0	J2000.00	1.236	180.1	18:45:48.4	6.1	i	Sloan	1 x 1	
236360	Sky background	22:58:12.66	+00:08:09.9	J2000.00	1.233	180.1	18:47:05.4	10.1	i	Sloan	1 x 1	
236361	Sky background	22:58:12.66	+00:08:09.9	J2000.00	1.230	180.1	18:48:10.2	10.1	z	Gunn	1 x 1	
236362	Sky background	22:58:09.99	+00:07:30.0	J2000.00	1.225	180.1	18:50:17.3	40.1	z	Gunn	1 x 1	
236363	Sky background	22:58:08.00	+00:07:00.0	J2000.00	1.220	180.1	18:52:12.3	100.0	z	Gunn	1 x 1	
236364	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.138	180.1	18:56:42.1	60.0	U	RGO	1 x 1	
236365	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.137	180.1	18:58:46.9	10.1	g	Sloan	1 x 1	
236366	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.137	180.1	19:00:00.4	10.1	r	Sloan	1 x 1	
236367	sa113-163	21:42:35.49	+00:16:45.9	J2000.00	1.137	180.1	19:01:12.3	10.1	i	Sloan	1 x 1	
236368	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.137	180.1	19:02:25.5	20.1	z	Gunn	1 x 1	
236369	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.137	180.1	19:03:49.2	10.1	V	Harris	1 x 1	
236370	Focus run	22:04:50.48	+32:34:39.2	J2000.00	1.003	180.1	19:16:03.9	30.1	V	Harris	1 x 1	
236371	Focus run	22:04:50.49	+32:34:39.2	J2000.00	1.002	180.1	19:23:45.6	30.1	U	RGO	1 x 1	
236372	Focus run	22:04:50.48	+32:34:39.2	J2000.00	1.002	180.1	19:30:45.8	30.1	U	RGO	1 x 1	
236375	Focus run	22:04:50.49	+32:34:39.2	J2000.00	1.004	180.1	19:42:08.0	20.1	U	RGO	1 x 1	
236377	wfsj2240+0000_020	22:38:56.00	-00:59:59.9	J2000.00	1.152	180.1	19:52:33.6	599.5	U	RGO	1 x 1	
236378	wfsj2240+0000_027	22:38:56.00	+01:20:00.0	J2000.00	1.129	180.1	20:04:42.8	599.5	U	RGO	1 x 1	
236379	wfsj2240+0000_028	22:41:03.99	-01:19:59.9	J2000.00	1.164	180.1	20:22:39.7	599.4	U	RGO	1 x 1	
236380	wfsj2240+0000_032	22:41:04.00	+00:00:00.1	J2000.00	1.159	180.1	20:35:38.2	599.5	U	RGO	1 x 1	
236381	wfsj2240+0000_034	22:41:03.99	+00:40:00.0	J2000.00	1.164	180.1	20:47:42.4	599.6	U	RGO	1 x 1	image jumped
236382	wfsj2240+0000_035	22:41:03.99	+01:00:00.0	J2000.00	1.176	180.1	20:59:38.3	599.5	U	RGO	1 x 1	
236383	wfsj2240+0000_036	22:41:03.99	+01:19:59.9	J2000.00	1.192	180.1	21:11:33.6	599.5	U	RGO	1 x 1	
236384	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.030	180.1	21:32:24.0	319.7	r	Sloan	1 x 1	
236385	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.028	180.1	21:39:01.2	319.8	r	Sloan	1 x 1	
236386	M31-microfld1	0:43:59.99	+41:34:00.0	J2000.00	1.027	180.1	21:45:39.0	319.7	i	Sloan	1 x 1	
236387	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.026	180.1	21:52:16.3	319.7	i	Sloan	1 x 1	
236388	M31-microfld2	0:43:09.99	+40:58:14.8	J2000.00	1.023	180.1	21:59:57.0	319.8	r	Sloan	1 x 1	
236389	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.024	180.1	22:06:33.6	319.3	r	Sloan	1 x 1	
236390	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.024	180.1	22:13:11.0	319.8	i	Sloan	1 x 1	
236391	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.026	180.1	22:19:48.7	319.8	i	Sloan	1 x 1	
236392	M33	1:33:45.00	+30:31:40.0	J2000.00	1.002	180.1	22:32:37.8	599.4	V	Harris	1 x 1	
236393	sa92-335	0:54:58.29	+00:44:00.9	J2000.00	1.146	180.1	22:48:18.3	60.0	U	RGO	1 x 1	
236394	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.147	180.1	22:50:23.5	10.1	g	Sloan	1 x 1	
236395	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.148	180.1	22:51:37.3	10.1	r	Sloan	1 x 1	
236396	sa92-335	0:54:58.29	+00:44:01.0	J2000.00	1.149	180.1	22:52:49.9	10.1	i	Sloan	1 x 1	
236397	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.151	180.1	22:54:03.0	20.1	z	Gunn	1 x 1	
236398	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.152	180.1	22:55:26.6	10.1	V	Harris	1 x 1	

236399	wfsj0347+2400-iz93	3:50:06.00	+26:23:00.2	J2000.00	1.124	180.1	23:00:54.4	599.3	i	Sloan	1 x 1
236400	wfsj0347+2400-iz93	3:50:06.00	+26:23:00.0	J2000.00	1.091	180.1	23:12:15.6	1198.6	z	Gunn	1 x 1
236401	wfsj0347+2400-iz94	3:42:20.00	+26:20:00.0	J2000.00	1.052	180.1	23:34:38.4	599.4	i	Sloan	1 x 1
236402	wfsj0347+2400-iz94	3:42:19.99	+26:20:00.0	J2000.00	1.033	180.1	23:46:02.6	1198.8	z	Gunn	1 x 1
236403	wfsj0347+2400-iz95	3:40:08.00	+26:20:00.0	J2000.00	1.016	180.1	00:08:24.1	599.3	i	Sloan	1 x 1
236404	wfsj0347+2400-iz95	3:40:07.99	+26:20:00.0	J2000.00	1.007	180.1	00:19:46.6	1198.7	z	Gunn	1 x 1
236405	s3	3:43:18.00	+17:21:35.9	J2000.00	1.022	180.1	00:43:30.6	598.9	r	Sloan	1 x 1
236407	wfsj0347+2400-iz96	3:53:00.00	+21:43:59.9	J2000.00	1.008	180.1	01:06:29.0	599.4	i	Sloan	1 x 1
236408	wfsj0347+2400-iz96	3:53:00.00	+21:43:59.9	J2000.00	1.010	180.1	01:17:50.5	1198.8	z	Gunn	1 x 1
236409	wfsj0347+2400-iz97	3:50:47.99	+21:43:59.8	J2000.00	1.018	180.1	01:40:10.1	599.3	i	Sloan	1 x 1
236410	wfsj0347+2400-iz97	3:50:48.00	+21:43:59.9	J2000.00	1.030	180.1	01:51:31.0	1198.8	z	Gunn	1 x 1
236411	wfsj0801+4019_004	7:55:10.49	+39:59:00.0	J2000.00	1.230	180.1	02:22:17.7	599.3	U	RGO	1 x 1
236412	wfsj0801+4019_004	7:55:10.49	+39:59:00.0	J2000.00	1.199	180.1	02:33:29.1	599.5	g	Sloan	1 x 1
236413	wfsj0801+4019_004	7:55:10.50	+39:59:00.0	J2000.00	1.171	180.1	02:44:40.3	599.5	r	Sloan	1 x 1
236414	wfsj0801+4019_004	7:55:10.50	+39:59:00.0	J2000.00	1.146	180.1	02:55:50.9	599.5	i	Sloan	1 x 1
236415	wfsj0801+4019_004	7:55:10.50	+39:59:00.0	J2000.00	1.124	180.1	03:07:02.2	599.4	z	Gunn	1 x 1
236416	wfsj0801+4019_005	7:55:08.50	+40:18:59.7	J2000.00	1.099	180.1	03:21:45.1	599.4	U	RGO	1 x 1
236417	wfsj0801+4019_005	7:55:08.50	+40:19:00.0	J2000.00	1.083	180.1	03:32:56.6	599.0	g	Sloan	1 x 1
236418	wfsj0801+4019_005	7:55:08.49	+40:18:59.9	J2000.00	1.069	180.1	03:44:07.6	599.1	r	Sloan	1 x 1
236419	wfsj0801+4019_005	7:55:08.50	+40:19:00.0	J2000.00	1.056	180.1	03:55:18.6	599.0	i	Sloan	1 x 1
236420	wfsj0801+4019_005	7:55:08.49	+40:19:00.0	J2000.00	1.046	180.1	04:06:32.3	599.4	z	Gunn	1 x 1
236421	wfsj0801+4019_006	7:55:06.60	+40:38:59.9	J2000.00	1.038	180.1	04:18:38.5	599.5	U	RGO	1 x 1
236422	wfsj0801+4019_006	7:55:06.59	+40:39:00.0	J2000.00	1.031	180.1	04:29:49.2	599.6	g	Sloan	1 x 1
236423	wfsj0801+4019_006	7:55:06.60	+40:39:00.0	J2000.00	1.027	180.1	04:41:00.5	599.4	r	Sloan	1 x 1
236424	wfsj0801+4019_006	7:55:06.60	+40:38:59.9	J2000.00	1.023	180.1	04:52:11.3	599.3	i	Sloan	1 x 1
236425	wfsj0801+4019_006	7:55:06.59	+40:38:59.9	J2000.00	1.022	180.1	05:03:22.4	599.4	z	Gunn	1 x 1
236426	wfsj0801+4019_007	7:55:04.59	+40:59:00.0	J2000.00	1.025	180.1	05:23:03.4	599.5	U	RGO	1 x 1
236427	wfsj0801+4019_007	7:55:04.60	+40:59:00.0	J2000.00	1.028	180.1	05:34:14.7	599.6	g	Sloan	1 x 1
236428	wfsj0801+4019_007	7:55:04.60	+40:58:59.9	J2000.00	1.033	180.1	05:45:26.0	599.5	r	Sloan	1 x 1
236429	wfsj0801+4019_007	7:55:04.60	+40:58:59.9	J2000.00	1.039	180.1	05:56:37.0	599.4	i	Sloan	1 x 1
236430	wfsj0801+4019_007	7:55:04.60	+40:58:59.9	J2000.00	1.048	180.1	06:07:47.6	599.1	z	Gunn	1 x 1
236431	sa101-427	9:57:26.50	-00:17:17.9	J2000.00	1.176	180.1	06:20:53.8	20.1	U	RGO	1 x 1
236432	sa101-427	9:57:26.50	-00:17:18.0	J2000.00	1.174	180.1	06:22:21.2	10.1	g	Sloan	1 x 1
236433	sa101-427	9:57:26.49	-00:17:18.0	J2000.00	1.172	180.1	06:23:35.2	10.1	r	Sloan	1 x 1
236434	sa101-427	9:57:26.49	-00:17:18.0	J2000.00	1.171	180.1	06:24:46.6	9.6	i	Sloan	1 x 1
236435	sa101-427	9:57:26.50	-00:17:17.9	J2000.00	1.170	180.1	06:26:00.3	20.1	z	Gunn	1 x 1
236436	sa101-427	9:57:26.49	-00:17:18.0	J2000.00	1.168	180.1	06:27:23.8	10.1	V	Harris	1 x 1
236437	Sky background	10:10:10.00	+27:59:59.9	J2000.00	1.010	180.1	06:49:35.9	100.0	g	Sloan	1 x 1
236438	Sky background	10:10:11.13	+28:00:15.0	J2000.00	1.009	180.1	06:52:28.2	100.0	g	Sloan	1 x 1
236440	Sky background	10:10:14.53	+28:00:59.9	J2000.00	1.007	180.1	06:55:31.2	60.1	g	Sloan	1 x 1
236441	Sky background	10:10:14.53	+28:01:00.0	J2000.00	1.006	180.1	06:57:54.6	59.6	V	Harris	1 x 1
236442	Sky background	10:10:12.26	+28:00:29.9	J2000.00	1.005	180.1	06:59:58.2	60.1	V	Harris	1 x 1
236443	Sky background	10:10:10.00	+28:00:00.0	J2000.00	1.005	180.1	07:02:08.2	40.1	V	Harris	1 x 1
236444	Sky background	10:10:07.73	+27:59:30.0	J2000.00	1.004	180.1	07:04:01.6	29.6	V	Harris	1 x 1
236445	Sky background	10:10:07.73	+27:59:30.0	J2000.00	1.003	180.1	07:05:51.5	19.6	z	Gunn	1 x 1
236446	Sky background	10:10:10.00	+28:00:00.0	J2000.00	1.003	180.1	07:07:22.1	40.1	z	Gunn	1 x 1
236447	Sky background	10:10:12.26	+28:00:29.9	J2000.00	1.002	180.1	07:09:10.3	20.1	z	Gunn	1 x 1
236448	Sky background	10:10:14.53	+28:01:00.0	J2000.00	1.002	180.1	07:10:35.6	19.6	z	Gunn	1 x 1
236449	Sky background	10:10:14.53	+28:00:59.9	J2000.00	1.002	180.1	07:12:15.6	5.1	r	Sloan	1 x 1
236450	Sky background	10:10:12.26	+28:00:30.0	J2000.00	1.001	180.1	07:13:27.3	2.1	r	Sloan	1 x 1
236451	Sky background	10:10:09.99	+28:00:00.0	J2000.00	1.001	180.1	07:14:33.7	1.1	r	Sloan	1 x 1
236452	Sky background	10:10:10.00	+28:00:00.0	J2000.00	1.001	180.1	07:15:35.1	1.1	U	RGO	1 x 1
236453	Sky background	10:10:12.26	+28:00:30.0	J2000.00	1.001	180.1	07:16:51.6	3.6	U	RGO	1 x 1
236454	Sky background	10:10:14.53	+28:01:00.0	J2000.00	1.001	180.1	07:17:58.9	4.1	U	RGO	1 x 1
236455	Sky background	10:10:16.79	+28:01:30.1	J2000.00	1.001	180.1	07:19:06.8	2.1	U	RGO	1 x 1
236456	Sky background	10:10:19.06	+28:02:00.1	J2000.00	1.000	180.1	07:20:13.7	2.1	U	RGO	1 x 1