INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:            INT
DATE:                 20001006
TAPE NR:              INTD4524
OBSERVER:             P. Sorensen
PROGRAMME:            S/D
PATT/CAT REF.:        S/D
TELESCOPE OPERATOR:   P. Sorensen
SUPPORT ASTRONOMER:

TELESCOPE FOCUS:      46.20 mm
CALIBRATE RESULTS:    HI 30.6 +/- 4.1, DI -61.9 +/- 1.4, HC 56.8 +/- 3.0, Sky sigma 3.6

INSTRUMENT:           WFC

WFC FILTER WHEEL:     B,V,R,Halpha,r

WEATHER:              (1st half)
                      (2nd half) good
CLOUD COVER (%):      (1st half) 0
                      (2nd half) 0
DUST (0-2):           (1st half) 0
                      (2nd half) 0
SEEING (arcsec):      (1st half) 1.5
                      (2nd half) 1.0

DOME OPENED (UT):     18:40
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METEOROLOGICAL PARAMETERS

UT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
19:00	10.4	47	45.2	47.8	179	769.7	10.7	15.0	15.2	47	36
20:00	10.1	46	51.7	55.5	160	769.5	10.3	11.6	14.5	45	41
21:00	10.0	46	48.6	54.2	141	770.3	10.2	11.7	14.3	47	42
22:00	10.4	44	42.5	46.0	156	770.9	10.6	11.6	14.1	43	40
23:00	10.7	39	35.0	43.7	169	771.6	10.9	11.9	14.0	38	35
00:00	10.4	39	36.3	40.8	153	771.6	10.7	11.7	14.0	39	36
01:00	10.7	36	40.1	46.0	176	771.6	11.0	11.8	14.0	35	34
02:00	10.8	34	31.7	36.3	149	771.5	11.2	12.0	13.8	34	32
03:00	10.7	34	36.5	39.8	135	770.8	10.9	11.9	13.8	34	32
04:00	10.8	32	38.2	43.7	217	770.7	11.2	12.0	13.7	32	29
05:00	10.5	34	29.4	33.0	181	770.9	10.9	11.8	13.6	32	30
06:00	10.4	34	28.1	33.7	212	770.9	11.1	11.8	13.5	32	30
07:00	10.3	40	26.7	32.6	156	771.3	10.8	11.5	13.6	37	36

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SUNSET(UT)              18:59
EVENING TWILIGHT(UT)    20:11
MORNING TWILIGHT(UT)    05:49
SUNRISE(UT)             07:01
MOON'S QUARTER (1-4)    2
DISK % OF ILLUM.        64
DARK TIME               09:38
TWILIGHT TIME           02:24
MOONRISE(UT)            No moonrise within sunset-sunrise
MOONSET(UT)             01:43

TIME LOST(WEATHER):     00:00
TIME LOST(TECHNICAL):   00:40
TIME LOST(OTHER):       00:00
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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
231598	Bias	0:00:00.00	+00:00:00.0	B1950.00	3.958	180.1	12:41:09.5	0.0	B	Harris	1 x 1	
231599	Bias	0:00:00.00	+00:00:00.0	B1950.00	3.958	180.1	12:55:30.5	0.0	B	Harris	1 x 1	
231600	Bias	0:00:00.00	+00:00:00.0	B1950.00	3.958	180.1	12:58:07.5	0.0	B	Harris	1 x 1	
231601	Bias	0:00:00.00	+00:00:00.0	B1950.00	3.958	180.1	13:05:13.3	0.0	B	Harris	1 x 1	
231602	Bias	0:00:00.00	+00:00:00.0	B1950.00	1.849	180.1	13:23:24.7	0.0	z	Gunn	1 x 1	
231603	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.1	13:30:16.1	0.0	z	Gunn	1 x 1	
231604	Bias	13:00:00.00	+24:59:59.9	A	1.015	212.9	13:50:47.7	0.0	z	Gunn	1 x 1	
231605	Bias	0:00:00.00	+00:00:00.0	A	1.000	212.9	16:08:31.8	0.0	z	Gunn	1 x 1	
231606	Bias	0:00:00.00	+00:00:00.0	A	1.000	212.9	16:30:18.9	0.0	R	Harris	1 x 1	
231607	Bias	0:00:00.00	+00:00:00.0	B1950.00	4.341	180.1	19:09:09.1	0.0	R	Harris	1 x 1	
231608	Bias	16:47:52.50	-15:17:44.0	B1950.00	1.721	180.1	19:12:00.3	0.0	Halpha	Narrow-ban	1 x 1	
231610	Bias	16:47:52.50	-15:17:43.9	B1950.00	2.062	180.1	19:53:60.0	0.0	B	Harris	1 x 1	
231611	Bias	16:47:52.50	-15:17:44.0	B1950.00	2.094	180.1	19:56:54.7	0.0	B	Harris	1 x 1	
231612	Bias	20:11:18.28	-00:49:17.2	J2000.00	1.154	180.1	19:59:51.2	0.0	r	Sloan	1 x 1	
231613	Bias	19:04:29.83	+08:17:46.9	J2000.00	1.114	180.1	20:22:17.9	0.0	Halpha	Narrow-ban	1 x 1	
231614	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.341	180.1	20:36:57.4	0.0	Halpha	Narrow-ban	1 x 1	
231615	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.341	180.1	20:40:17.0	0.0	Halpha	Narrow-ban	1 x 1	
231616	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.341	180.1	20:46:36.0	0.0	Halpha	Narrow-ban	1 x 1	
231617	113-163 r	21:42:35.50	+00:16:46.0	J2000.00	1.159	180.1	21:06:39.9	5.1	r	Sloan	1 x 1	
231618	Focus run	21:42:35.50	+00:18:00.9	J2000.00	1.155	180.1	21:11:40.0	5.1	r	Sloan	1 x 1	
231619	Focus run	21:42:35.50	+00:18:26.1	J2000.00	1.149	180.1	21:19:11.1	10.1	r	Sloan	1 x 1	
231620	113-163 r	21:42:35.50	+00:20:06.0	J2000.00	1.144	180.1	21:24:30.3	10.1	r	Sloan	1 x 1	
231621	113-163 r	21:42:35.50	+00:20:06.0	J2000.00	1.143	180.1	21:27:08.5	10.1	r	Sloan	1 x 1	
231622	M31-microfld1	0:44:00.01	+41:33:59.9	J2000.00	1.336	180.1	21:32:44.2	319.8	r	Sloan	1 x 1	
231623	M31-microfld1	0:43:59.99	+41:34:00.0	J2000.00	1.311	180.1	21:39:24.3	319.8	r	Sloan	1 x 1	
231624	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.288	180.1	21:46:04.4	319.8	i	Sloan	1 x 1	
231625	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.266	180.1	21:52:44.9	319.8	i	Sloan	1 x 1	
231626	M31-microfld2	0:43:09.99	+40:58:15.1	J2000.00	1.238	180.1	22:00:29.3	319.8	r	Sloan	1 x 1	
231627	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.219	180.1	22:07:08.9	319.8	r	Sloan	1 x 1	
231628	M31-microfld2	0:43:09.99	+40:58:14.9	J2000.00	1.201	180.1	22:13:48.4	319.7	i	Sloan	1 x 1	
231629	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.184	180.1	22:20:28.8	319.8	i	Sloan	1 x 1	
231630	Bias	0:43:09.99	+40:58:14.9	J2000.00	1.172	180.1	22:28:14.7	0.0	i	Sloan	1 x 1	
231631	Bias	0:43:09.99	+40:58:15.0	J2000.00	1.170	180.1	22:29:09.7	0.0	i	Sloan	1 x 1	
231632	Bias	0:43:10.00	+40:58:14.9	J2000.00	1.168	180.1	22:30:05.5	0.0	i	Sloan	1 x 1	
231633	113-163 r	21:42:35.50	+00:16:45.9	J2000.00	1.159	180.1	22:35:26.8	5.1	r	Sloan	1 x 1	
231634	113-163 i	21:42:35.50	+00:16:45.9	J2000.00	1.161	180.1	22:37:25.7	5.1	i	Sloan	1 x 1	
231635	113-163 B	21:42:35.50	+00:16:46.0	J2000.00	1.163	180.1	22:38:56.2	5.1	B	Harris	1 x 1	
231636	113-163 B	21:42:35.50	+00:16:46.1	J2000.00	1.165	180.1	22:40:53.6	29.6	B	Harris	1 x 1	
231637	113-163 V	21:42:35.49	+00:16:46.0	J2000.00	1.167	180.1	22:42:44.3	5.1	V	Harris	1 x 1	
231638	M31 B	0:44:46.00	+41:38:20.0	J2000.00	1.123	180.1	22:48:36.7	798.7	B	Harris	1 x 1	
231639	M31 V	0:44:46.00	+41:38:20.0	J2000.00	1.099	180.1	23:03:00.4	799.2	V	Harris	1 x 1	
231640	M31 B	0:44:46.00	+41:38:19.9	J2000.00	1.079	180.1	23:17:24.3	799.2	B	Harris	1 x 1	
231641	M31 V	0:44:45.99	+41:38:20.0	J2000.00	1.063	180.1	23:31:47.2	799.4	V	Harris	1 x 1	
231642	Bias	0:44:45.99	+41:38:20.0	J2000.00	1.055	180.1	23:46:47.6	0.0	V	Harris	1 x 1	
231643	Bias	0:44:46.00	+41:38:19.9	J2000.00	1.054	180.1	23:47:43.0	0.0	V	Harris	1 x 1	
231644	Bias	0:44:46.00	+41:38:19.9	J2000.00	1.053	180.1	23:48:38.1	0.0	V	Harris	1 x 1	
231646	92-249 r	0:54:33.60	+00:41:05.1	J2000.00	1.182	180.1	23:55:41.6	20.1	r	Sloan	1 x 1	
231648	92-249 i	0:54:33.59	+00:41:04.9	J2000.00	1.177	180.1	23:59:11.8	20.1	i	Sloan	1 x 1	
231651	Perseus 1000s i	3:20:16.80	+41:35:34.5	J2000.00	1.282	180.1	00:18:05.1	999.0	i	Sloan	1 x 1	
231652	Perseus 1000s i	3:20:16.80	+41:35:34.5	J2000.00	1.223	180.1	00:37:12.2	998.9	i	Sloan	1 x 1	
231653	Perseus 1000s r	3:20:16.80	+41:35:34.5	J2000.00	1.173	180.1	00:56:54.3	998.9	r	Sloan	1 x 1	
231654	Perseus 1000s r	3:20:16.80	+41:35:34.4	J2000.00	1.133	180.1	01:16:08.2	999.0	r	Sloan	1 x 1	
231655	Bias	3:20:16.80	+41:35:34.5	J2000.00	1.113	180.1	01:35:39.8	0.0	r	Sloan	1 x 1	
231656	Bias	3:20:16.80	+41:35:34.5	J2000.00	1.112	180.1	01:36:35.6	0.0	r	Sloan	1 x 1	
231657	Bias	3:20:16.79	+41:35:34.5	J2000.00	1.110	180.1	01:37:31.7	0.0	r	Sloan	1 x 1	
231658	92-249 r	0:54:33.60	+00:41:05.0	J2000.00	1.150	180.1	01:41:34.0	20.1	r	Sloan	1 x 1	
231659	92-249 i	0:54:33.60	+00:41:05.0	J2000.00	1.152	180.1	01:44:02.5	20.1	i	Sloan	1 x 1	
231660	Perseus 1000s i	3:20:16.79	+41:35:34.4	J2000.00	1.079	180.1	01:51:17.2	999.0	i	Sloan	1 x 1	
231661	Perseus 1000s r	3:20:16.79	+41:35:34.5	J2000.00	1.057	180.1	02:10:57.5	999.1	r	Sloan	1 x 1	
231665	NGC1514 300s Ha	4:09:16.98	+30:46:33.5	J2000.00	1.068	180.1	02:39:28.3	299.8	Halpha	Narrow-ban	1 x 1	
231666	NGC1514 2400s Ha	4:09:16.98	+30:46:33.3	J2000.00	1.036	180.1	02:48:00.6	2397.3	Halpha	Narrow-ban	1 x 1	

231667	NGC1514 2400s Ha	4:09:16.98	+30:46:33.4	J2000.00	1.006	180.1	03:31:20.6	2397.3	Halpha Narrow-ban	1 x 1
231669	Bias	4:09:16.97	+30:46:33.4	J2000.00	1.001	180.1	04:17:20.4	0.0	Halpha Narrow-ban	1 x 1
231670	Bias	4:09:16.97	+30:46:33.4	J2000.00	1.001	180.1	04:18:26.2	0.0	Halpha Narrow-ban	1 x 1
231671	Bias	4:09:16.97	+30:46:33.4	J2000.00	1.001	180.1	04:19:23.1	0.0	Halpha Narrow-ban	1 x 1
231672	Field4_1	3:03:59.99	-09:56:00.1	J2000.00	1.371	180.1	04:28:26.6	299.7	R Harris	1 x 1
231673	Field4_1	3:04:00.67	-09:56:00.0	J2000.00	1.392	180.1	04:36:28.3	299.8	R Harris	1 x 1
231674	Field4_1	3:03:59.99	-09:55:50.0	J2000.00	1.412	180.1	04:43:32.3	299.7	R Harris	1 x 1
231675	Field4_2	3:04:00.00	-09:55:29.9	J2000.00	1.444	180.1	04:53:27.5	299.8	R Harris	1 x 1
231676	Field4_2	3:04:00.67	-09:55:30.0	J2000.00	1.471	180.1	05:00:43.4	299.8	R Harris	1 x 1
231677	Field4_2	3:04:00.00	-09:55:20.0	J2000.00	1.504	180.1	05:08:48.4	299.7	R Harris	1 x 1
231678	Bias	3:04:00.00	-09:55:20.0	J2000.00	1.520	180.1	05:15:04.5	0.0	R Harris	1 x 1
231679	Bias	3:04:00.00	-09:55:20.0	J2000.00	1.524	180.1	05:16:01.5	0.0	R Harris	1 x 1
231680	Bias	3:04:00.00	-09:55:20.0	J2000.00	1.529	180.1	05:16:59.8	0.0	R Harris	1 x 1
231682	95-102 R	3:53:07.50	+00:01:09.9	J2000.00	1.223	180.1	05:24:42.5	5.1	R Harris	1 x 1
231683	Bias	3:53:07.50	+00:01:10.0	J2000.00	1.246	180.1	05:35:29.4	0.0	R Harris	1 x 1
231684	sky R	4:25:56.24	+54:09:02.9	B1950.00	1.190	180.1	06:29:34.8	179.9	R Harris	1 x 1
231685	sky R	4:25:47.13	+54:09:13.0	B1950.00	1.196	180.1	06:34:40.0	40.1	R Harris	1 x 1
231686	sky R	4:25:47.13	+54:09:22.9	B1950.00	1.199	180.1	06:36:36.5	20.1	R Harris	1 x 1
231687	sky r'	4:25:47.13	+54:09:22.9	B1950.00	1.202	180.1	06:38:12.1	20.1	r Sloan	1 x 1
231688	sky r'	4:25:47.13	+54:09:23.0	B1950.00	1.204	180.1	06:39:43.3	10.1	r Sloan	1 x 1
231689	sky i'	4:25:47.14	+54:09:23.0	B1950.00	1.206	180.1	06:41:06.0	10.1	i Sloan	1 x 1
231690	sky i'	4:25:47.13	+54:09:22.9	B1950.00	1.209	180.1	06:42:41.3	5.1	i Sloan	1 x 1
231691	sky i'	4:25:47.14	+54:09:22.9	B1950.00	1.211	180.1	06:44:05.8	3.1	i Sloan	1 x 1
231692	sky r'	4:25:47.13	+54:09:22.9	B1950.00	1.213	180.1	06:45:15.7	1.0	r Sloan	1 x 1
231693	sky Ha	4:25:47.13	+54:09:22.9	B1950.00	1.216	180.1	06:46:28.4	10.1	Halpha Narrow-ban	1 x 1
231694	sky Ha	4:25:47.13	+54:09:23.0	B1950.00	1.218	180.1	06:48:02.1	10.1	Halpha Narrow-ban	1 x 1
231695	sky Ha	4:25:47.13	+54:09:12.9	B1950.00	1.221	180.1	06:49:44.2	15.1	Halpha Narrow-ban	1 x 1
231696	sky Ha	4:25:47.13	+54:09:13.0	B1950.00	1.225	180.1	06:51:35.8	7.1	Halpha Narrow-ban	1 x 1
231697	Bias	4:25:47.13	+54:09:13.0	B1950.00	1.229	180.1	06:53:54.2	0.0	Halpha Narrow-ban	1 x 1