INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:              INT
DATE:                   20001029
TAPE NR:                INTD4538
OBSERVER:               Andrew Bunker
PROGRAMME:              Cambridege-Carnegie Deep OIR Galaxy Survey + M31 override
PATT/CAT REF.:          P17+M31
TELESCOPE OPERATOR:     Neil O Mahony
SUPPORT ASTRONOMER:     Nic Walton

TELESCOPE FOCUS:        46.10 mm
CALIBRATE RESULTS:      HI 57.8 +/- , DI -36.0 +/- , HC 37.7 +/- , Sky sigma single star

INSTRUMENT:             WFC

WFC FILTER WHEEL:       g,r,i,U,Z,KPB

WEATHER:                (1st half) FAIR
                        (2nd half) GOOD
CLOUD COVER (%):        (1st half) 0
                        (2nd half) 0
DUST (0-2):             (1st half) 0
                        (2nd half) 0
SEEING (arcsec):        (1st half) 3.0
                        (2nd half) 1.1-2.5

DOME OPENED (UT):       18:25
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METEOROLOGICAL PARAMETERS

LT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
19:00	6.1	53	30.5	34.7	151	771.9	6.3	7.9	11.2	52	46
20:00	5.9	51	9.9	15.1	147	772.7	6.4	7.9	10.4	38	42
21:00	6.1	47	30.8	36.0	99	773.0	6.4	7.5	10.0	45	42
22:00	6.4	39	20.7	29.1	111	773.5	7.2	8.2	9.7	34	32
23:00	7.9	22	6.4	8.8	128	773.7	8.2	8.9	9.7	22	21
00:00	7.5	23	16.4	20.5	133	773.6	7.9	8.7	9.6	20	19
01:00	7.4	23	18.3	20.6	139	773.2	7.9	8.6	9.8	22	20
02:00	7.5	23	6.2	7.1	160	773.2	8.0	8.9	9.6	21	19
03:00	7.8	18	3.5	3.9	128	772.9	7.7	8.7	9.3	23	19
04:00	7.8	18	0.1	0.4	348	772.7	7.9	8.8	9.2	19	17
05:00	8.2	15	12.7	13.2	142	772.5	8.7	8.8	9.2	14	15
06:00	7.9	16	4.6	5.0	144	772.5	8.5	8.4	9.0	14	15
07:00	8.5	14	1.9	2.0	125	772.7	9.0	9.0	9.3	13	13

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SUNSET(UT)              18:36
EVENING TWILIGHT(UT)    19:49
MORNING TWILIGHT(UT)    06:02
SUNRISE(UT)             07:15
MOON'S QUARTER (1-4)    1
DISK % OF ILLUM.        5
DARK TIME               10:13
TWILIGHT TIME           02:26
MOONRISE(UT)            No moonrise within sunset-sunrise
MOONSET(UT)             20:24

TIME LOST(WEATHER):     00:00
TIME LOST(TECHNICAL):   00:00
TIME LOST(OTHER):       00:00
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COMMENTS:
  Poor seeing (>2.5") until about 4h UT when humidity dropped below 25%

Seeing about 1" from UT 05:30 on.
Morning twilight flats lost to disks full and could not change disk.

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
234057	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:17:52.9	0.0	B	Kitt Peak	1 x 1	
234058	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:18:58.1	0.0	B	Kitt Peak	1 x 1	
234059	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:19:40.8	0.0	B	Kitt Peak	1 x 1	
234060	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:20:20.7	0.0	B	Kitt Peak	1 x 1	
234061	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:20:60.0	0.0	B	Kitt Peak	1 x 1	
234062	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:24:04.2	0.0	B	Kitt Peak	1 x 1	
234063	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:24:43.4	0.0	B	Kitt Peak	1 x 1	
234064	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:25:22.7	0.0	B	Kitt Peak	1 x 1	might have light
234065	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:26:01.8	0.0	B	Kitt Peak	1 x 1	
234066	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:26:57.2	0.0	B	Kitt Peak	1 x 1	
234067	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:27:36.3	0.0	B	Kitt Peak	1 x 1	
234068	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:28:15.5	0.0	B	Kitt Peak	1 x 1	
234069	Bias	0:00:00.00	+00:00:00.0	A	1.539	180.0	14:28:54.6	0.0	B	Kitt Peak	1 x 1	
234070	Flat field	22:58:00.00	+00:05:00.0	J2000.00	1.568	180.0	18:42:02.8	3.5	U	RGO	1 x 1	
234071	Flat field	22:58:01.33	+00:05:19.9	J2000.00	1.558	180.0	18:43:30.8	5.0	U	RGO	1 x 1	saturated
234072	Flat field	22:57:58.66	+00:05:20.0	J2000.00	1.549	180.0	18:44:56.3	6.1	U	RGO	1 x 1	
234073	Flat field	22:57:58.66	+00:05:20.0	J2000.00	1.541	180.0	18:46:15.5	9.5	U	RGO	1 x 1	saturated
234074	Flat field	22:57:58.66	+00:04:39.9	J2000.00	1.534	180.0	18:47:29.2	8.1	U	RGO	1 x 1	
234075	Flat field	22:58:01.33	+00:04:40.0	J2000.00	1.526	180.0	18:48:50.0	9.1	U	RGO	1 x 1	
234076	Flat field	22:57:58.00	+00:04:29.8	J2000.00	1.518	180.0	18:50:04.3	11.1	U	RGO	1 x 1	
234077	Flat field	22:57:59.99	+00:04:59.9	J2000.00	1.507	180.0	18:52:06.8	3.5	B	Kitt Peak	1 x 1	
234078	Flat field	22:58:01.33	+00:05:19.9	J2000.00	1.498	180.0	18:53:35.0	5.2	B	Kitt Peak	1 x 1	
234079	Flat field	22:58:01.33	+00:04:39.9	J2000.00	1.490	180.0	18:55:02.7	8.0	B	Kitt Peak	1 x 1	
234080											1 x 1	B twi flat
234083	Bias	22:58:00.00	+00:05:00.0	J2000.00	1.424	180.0	19:08:17.5	0.0	i	Sloan	1 x 1	
234084	SA113 i-band	21:42:04.79	+00:19:11.9	J2000.00	1.178	180.0	19:18:36.0	10.1	i	Sloan	1 x 1	
234085	SA113 i-band	21:42:06.13	+00:19:31.9	J2000.00	1.176	180.0	19:20:10.1	10.1	i	Sloan	1 x 1	
234086	SA113 KPNO B-band	21:42:04.80	+00:19:12.1	J2000.00	1.175	180.0	19:21:20.9	20.1	B	Kitt Peak	1 x 1	
234087	SA113 KPNO B-band	21:42:06.13	+00:19:31.8	J2000.00	1.173	180.0	19:22:42.8	20.1	B	Kitt Peak	1 x 1	
234088	SA113 U-band 60s	21:42:04.80	+00:19:11.9	J2000.00	1.170	180.0	19:24:12.3	60.1	U	RGO	1 x 1	
234089	SA113 U-band 60s	21:42:06.12	+00:19:31.9	J2000.00	1.168	180.0	19:26:22.5	60.1	U	RGO	1 x 1	
234090	SA113 z-band 20s	21:42:04.82	+00:19:12.1	J2000.00	1.166	180.0	19:28:24.7	20.1	z	Gunn	1 x 1	
234091	SA113 z-band 20s	21:42:06.13	+00:19:31.9	J2000.00	1.164	180.0	19:30:23.3	20.1	z	Gunn	1 x 1	
234092	SA113 z-band 20s	21:42:08.13	+00:20:01.9	J2000.00	1.161	180.0	19:32:19.5	20.1	z	Gunn	1 x 1	
234093	HR8086	21:06:56.60	+38:44:39.9	J2000.50	1.016	180.0	19:36:06.8	1.1	U	RGO	1 x 1	offset test
234094	HR8086	21:06:35.11	+38:50:05.9	J2000.50	1.016	180.0	19:43:38.6	1.4	U	RGO	1 x 1	offset -251 326
234095	Focus run	21:06:56.59	+38:47:10.0	J2000.50	1.017	180.0	20:01:16.7	5.1	U	RGO	1 x 1	
234096	hr8086 ap6	21:06:56.57	+38:44:39.9	J2000.50	1.019	180.0	20:07:41.8	1.1	U	RGO	1 x 1	wrong pos
234097	hr8086 ap6	21:06:56.60	+38:44:40.0	J2000.50	1.019	180.0	20:08:46.4	1.1	U	RGO	1 x 1	
234098	hr8086 off	21:07:18.02	+38:39:13.8	J2000.50	1.021	180.0	20:14:55.7	1.1	U	RGO	1 x 1	
234099	hr8430	22:07:02.10	+25:20:50.8	J2000.50	1.003	180.0	20:30:04.7	1.3	B	Kitt Peak	1 x 1	
234100	hr8430 ap6	22:07:02.12	+25:20:51.1	J2000.50	1.003	180.0	20:31:14.9	1.0	B	Kitt Peak	1 x 1	
234101	hr8430 off 251 326	22:07:20.63	+25:26:16.9	J2000.50	1.002	180.0	20:38:14.4	1.1	B	Kitt Peak	1 x 1	
234102	hr8430 off 326 251	22:07:26.16	+25:25:01.8	J2000.50	1.002	180.0	20:40:13.3	1.1	B	Kitt Peak	1 x 1	
234104	SA22 KPNO-B 900s	22:17:49.33	+00:26:48.9	J2000.00	1.141	180.0	21:09:10.0	899.2	B	Kitt Peak	1 x 1	
234105	SA22 KPB	22:17:49.32	+00:26:49.0	J2000.00	1.153	180.0	21:27:14.2	899.2	B	Kitt Peak	1 x 1	repeat pos
234106	SA22 KPB	22:17:49.32	+00:26:48.5	J2000.00	1.170	180.0	21:43:39.6	899.2	B	Kitt Peak	1 x 1	
234107	SA22 KPB	22:17:49.33	+00:26:49.0	J2000.00	1.194	180.0	22:00:04.6	899.2	B	Kitt Peak	1 x 1	
234108	SA22 KPB	22:17:49.33	+00:26:48.9	J2000.00	1.226	180.0	22:16:31.5	899.2	B	Kitt Peak	1 x 1	
234109	SA22 KPB	22:17:49.33	+00:26:48.9	J2000.00	1.266	180.0	22:32:59.2	899.2	B	Kitt Peak	1 x 1	
234110	SA22 KPB	22:17:49.33	+00:26:49.0	J2000.00	1.316	180.0	22:49:25.1	899.0	B	Kitt Peak	1 x 1	
234111	SA22 KPB	22:17:49.32	+00:26:49.0	J2000.00	1.378	180.0	23:05:55.7	899.1	B	Kitt Peak	1 x 1	repeat pos
234112	SA22 KPB	22:17:49.33	+00:26:49.0	J2000.00	1.453	180.0	23:22:24.3	899.1	B	Kitt Peak	1 x 1	same pos 234105
234113	SA22 KPB	22:17:49.33	+00:26:49.0	J2000.00	1.546	180.0	23:38:51.9	899.1	B	Kitt Peak	1 x 1	
234114	NOAO KPB	2:10:02.70	-04:33:37.1	J2000.00	1.216	180.0	23:59:46.9	899.0	B	Kitt Peak	1 x 1	
234115	NOAO KPB	2:10:02.69	-04:33:36.5	J2000.00	1.203	180.0	00:16:44.3	899.1	B	Kitt Peak	1 x 1	
234116	NOAO KPB	2:10:02.70	-04:33:37.0	J2000.00	1.197	180.0	00:33:36.9	899.1	B	Kitt Peak	1 x 1	

234117	NOAO KPB	2:10:02.70	-04:33:37.3	J2000.00	1.198	180.0	00:50:29.3	899.1	B	Kitt Peak	1 x 1	
234118	NOAO KPB	1:05:01.35	-02:16:48.5	J2000.00	1.206	180.0	01:07:20.6	899.0	B	Kitt Peak	1 x 1	RA,Dec wrong
234119	NOAO KPB	2:10:02.71	-04:33:37.0	J2000.00	1.221	180.0	01:24:13.3	899.2	B	Kitt Peak	1 x 1	
234120	NOAO KPB	2:10:02.70	-04:33:36.8	J2000.00	1.243	180.0	01:41:04.8	898.9	B	Kitt Peak	1 x 1	
234121	NOAO KPB	2:10:02.70	-04:33:37.2	J2000.00	1.274	180.0	01:57:58.0	899.1	B	Kitt Peak	1 x 1	
234122	NOAO KPB	1:05:01.34	-02:16:48.5	J2000.00	1.314	180.0	02:14:54.7	899.1	B	Kitt Peak	1 x 1	RA,Dec wrong
234123	NOAO2 KPB	2:10:03.20	-04:33:29.8	J2000.00	1.370	180.0	02:33:21.8	899.1	B	Kitt Peak	1 x 1	
234124	NOAO2 KPB	2:10:03.20	-04:33:29.6	J2000.00	1.435	180.0	02:50:20.0	899.2	B	Kitt Peak	1 x 1	
234126	wfsj0347+2400-iz30	3:47:25.39	+22:08:39.8	J2000.00	1.034	180.0	03:17:39.7	599.0	i	Sloan	1 x 1	
234127	wfsj0347+2400-iz30	3:47:25.39	+22:08:39.6	J2000.00	1.046	180.0	03:28:44.4	599.2	z	Gunn	1 x 1	
234128	wfsj0347+2400-iz31	3:43:26.49	+22:18:05.4	J2000.00	1.068	180.0	03:41:54.5	599.4	i	Sloan	1 x 1	i band only
234130	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.103	180.0	04:09:31.5	0.0	z	Gunn	1 x 1	
234131	test	0:00:00.00	+00:00:00.0	J2000.00	1.103	180.0	04:12:37.8	1.1	z	Gunn	1 x 1	
234132	wfsj0347+2400-iz32	3:38:29.94	+23:59:59.9	J2000.00	1.143	180.0	04:17:54.7	599.4	i	Sloan	1 x 1	
234133	wfsj0347+2400-iz32	3:38:29.94	+24:00:00.0	J2000.00	1.171	180.0	04:28:59.4	599.4	z	Gunn	1 x 1	
234134	wfsj0347+2400-iz33	3:38:29.94	+23:40:00.0	J2000.00	1.207	180.0	04:40:51.8	599.4	i	Sloan	1 x 1	
234135	wfsj0347+2400-iz33	3:38:29.94	+23:40:00.0	J2000.00	1.244	180.0	04:51:56.9	599.3	z	Gunn	1 x 1	
234136	wfsj0347+2400-iz34	3:38:29.94	+23:20:00.0	J2000.00	1.296	180.0	05:05:09.9	599.5	i	Sloan	1 x 1	
234137	wfsj0347+2400-iz34	3:38:29.93	+23:19:59.8	J2000.00	1.344	180.0	05:16:15.7	599.3	z	Gunn	1 x 1	
234138	wfsj0347+2400-iz35	3:42:00.00	+25:46:59.8	J2000.00	1.369	180.0	05:28:09.0	599.4	i	Sloan	1 x 1	
234139	wfsj0347+2400-iz35	3:42:00.00	+25:46:59.9	J2000.00	1.426	180.0	05:39:14.3	599.4	z	Gunn	1 x 1	
234140	wfsj0347+2400-iz36	3:50:33.05	+25:56:11.3	J2000.00	1.449	180.0	05:51:59.4	599.4	i	Sloan	1 x 1	
234141	wfsj0347+2400-iz36	3:50:33.05	+25:56:11.3	J2000.00	1.518	180.0	06:03:12.9	599.5	z	Gunn	1 x 1	
234142	wfsj0347+2400-iz31	3:43:26.48	+22:18:05.4	J2000.00	1.705	180.0	06:15:20.4	599.6	z	Gunn	1 x 1	
234143	sa98-670 z 20s	6:52:11.99	-00:19:17.0	J2000.00	1.188	180.0	06:30:39.8	20.1	z	Gunn	1 x 1	trailed
234144	sa98-670 z 20s	6:52:13.33	-00:18:57.0	J2000.00	1.190	180.0	06:32:14.6	20.1	z	Gunn	1 x 1	
234145	sa98-670 i 10s	6:52:12.00	-00:19:17.0	J2000.00	1.194	180.0	06:34:27.6	10.1	i	Sloan	1 x 1	
234146	sa98-670 i 10s	6:52:13.33	-00:18:57.0	J2000.00	1.196	180.0	06:35:44.9	10.1	i	Sloan	1 x 1	
234147	sa98-670 KPNO-B 20	6:52:12.00	-00:19:16.8	J2000.00	1.198	180.0	06:36:58.3	20.1	B	Kitt Peak	1 x 1	
234148	sa98-670 KPNO-B 20	6:52:13.33	-00:18:57.0	J2000.00	1.200	180.0	06:38:27.7	20.1	B	Kitt Peak	1 x 1	
234149	sa98-670 U 30s	6:52:12.00	-00:19:16.9	J2000.00	1.205	180.0	06:40:57.1	30.1	U	RGO	1 x 1	
234150	sa98-670 U 30s	6:52:13.33	-00:18:57.0	J2000.00	1.207	180.0	06:42:33.7	30.1	U	RGO	1 x 1	