INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:            INT
DATE:                 20000905
TAPE NR:              INTD4488
OBSERVER:             Mike Irwin & Annette Ferguson
PROGRAMME:            Survey of M31 Halo and outer disk
PATT/CAT REF.:        P8
TELESCOPE OPERATOR:   N/A
SUPPORT ASTRONOMER:   N/A

TELESCOPE FOCUS:      46.05 mm
CALIBRATE RESULTS:    HI 32.91 +/- 3.79, DI -84.02 +/- 1.27, HC  58.34 +/- 2.73, Sky sigma 3.39

INSTRUMENT:           WFC

WFC FILTER WHEEL:     g,V,r,i,z,Ha

WEATHER:              (1st half) Goodr
                      (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) 1.2

DOME OPENED (UT):     19:00
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METEOROLOGICAL PARAMETERS

UT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
20:00	10.8	34	33.2	35.8	19	772.5	11.1	13.7	17.4	32	28
21:00	10.1	43	33.9	41.2	354	772.7	10.1	11.8	16.9	47	39
22:00	9.9	36	35.6	39.3	1	773.0	10.3	11.8	16.4	35	32
23:00	9.4	51	40.7	45.5	8	773.2	9.8	11.4	15.9	48	44
00:00	10.1	19	46.4	49.7	14	773.1	10.6	11.7	15.5	18	18
01:00	10.7	17	38.0	42.2	20	772.9	11.1	12.2	15.4	15	15
02:00	10.7	14	37.6	39.1	31	772.6	11.0	12.1	15.1	15	14
03:00	10.3	17	39.0	41.6	29	772.1	10.7	11.9	15.0	16	16
04:00	11.4	22	32.4	33.9	23	771.9	11.9	12.7	14.8	18	17
05:00	11.4	20	35.5	38.0	39	771.6	11.9	12.3	15.0	20	18
06:00	11.6	22	32.6	33.3	44	771.5	12.1	12.2	14.8	14	14

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SUNSET(UT)            19:36
EVENING TWILIGHT(UT)  20:50
MORNING TWILIGHT(UT)  05:32
SUNRISE(UT)           06:45
MOON'S QUARTER (1-4)  1
DISK % OF ILLUM.      49
DARK TIME             08:42
TWILIGHT TIME         02:27
MOONRISE(UT)          No moonrise within sunset-sunrise
MOONSET(UT)           00:39

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

COMMENTS:
   Photometric night with variable seeing, which improved towards end
  of night. Fairly high winds.
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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
228725	File not available											
228726	File not available											
228727	File not available											
228728	File not available											
228729	File not available											
228730	File not available											
228731	File not available											
228732	Bias frame	0:00:00.00	+00:00:00.0	A	4.533	180.0	16:39:41.9	0.0	g	Sloan	1 x 1	
228733	Bias frame	0:00:00.00	+00:00:00.0	A	4.533	180.0	16:40:21.0	0.0	g	Sloan	1 x 1	
228734	Bias frame	0:00:00.00	+00:00:00.0	A	4.533	180.0	16:40:60.0	0.0	g	Sloan	1 x 1	
228735	Bias frame	0:00:00.00	+00:00:00.0	A	4.533	180.0	16:41:39.0	0.0	g	Sloan	1 x 1	
228736	Bias frame	0:00:00.00	+00:00:00.0	A	4.533	180.0	16:42:18.1	0.0	g	Sloan	1 x 1	
228737	Flat field	15:00:00.00	+30:09:59.9	J2000.00	1.206	180.0	19:47:30.6	2.0	z	Gunn	1 x 1	
228738	Flat field	15:00:02.31	+30:10:30.0	J2000.00	1.210	180.0	19:48:44.6	4.6	z	Gunn	1 x 1	
228739	Flat field	15:00:04.62	+30:10:59.9	J2000.00	1.213	180.0	19:49:57.9	10.1	z	Gunn	1 x 1	
228740	Flat field	15:00:06.94	+30:11:29.9	J2000.00	1.220	180.0	19:52:15.0	15.1	z	Gunn	1 x 1	
228741	Flat field	15:00:06.94	+30:11:29.8	J2000.00	1.228	180.0	19:54:39.6	5.1	i	Sloan	1 x 1	
228742	Flat field	15:00:04.62	+30:10:59.9	J2000.00	1.232	180.0	19:55:48.4	8.1	i	Sloan	1 x 1	
228743	Flat field	15:00:02.31	+30:10:30.0	J2000.00	1.236	180.0	19:56:59.0	12.1	i	Sloan	1 x 1	
228744	Flat field	15:00:02.31	+30:10:29.9	J2000.00	1.242	180.0	19:58:31.9	18.1	V	Harris	1 x 1	
228745	Flat field	14:59:59.99	+30:09:59.9	J2000.00	1.247	180.0	19:59:53.0	24.1	V	Harris	1 x 1	
228746	Flat field	14:59:57.68	+30:09:30.0	J2000.00	1.252	180.0	20:01:15.7	36.1	V	Harris	1 x 1	
228747	Flat field	14:59:57.68	+30:09:30.0	J2000.00	1.257	180.0	20:02:51.9	25.1	r	Sloan	1 x 1	
228748	Flat field	14:59:59.99	+30:09:59.9	J2000.00	1.264	180.0	20:04:26.7	50.1	r	Sloan	1 x 1	
228749	Flat field	15:00:02.31	+30:10:29.9	J2000.00	1.271	180.0	20:06:16.9	75.0	r	Sloan	1 x 1	
228750	Focus run	18:42:45.00	+00:09:34.0	J2000.00	1.154	180.0	20:16:36.6	10.1	r	Sloan	1 x 1	
228751	sa110-361 V	18:42:45.00	+00:08:04.0	J2000.00	1.151	180.0	20:20:30.1	10.1	V	Harris	1 x 1	
228752	sa110-361 g	18:42:45.00	+00:08:04.0	J2000.00	1.150	180.0	20:21:38.4	10.1	g	Sloan	1 x 1	
228753	sa110-361 i	18:42:45.00	+00:08:04.0	J2000.00	1.149	180.0	20:22:46.3	10.1	i	Sloan	1 x 1	
228754	sa110-361 r	18:42:45.00	+00:08:03.9	J2000.00	1.148	180.0	20:23:54.6	10.1	r	Sloan	1 x 1	
228755	sa110-361 Z	18:42:45.00	+00:08:04.0	J2000.00	1.148	180.0	20:25:02.6	10.1	z	Gunn	1 x 1	
228756	Focus run	16:43:47.60	+42:37:29.9	J2000.00	1.092	180.0	20:30:30.5	10.1	z	Gunn	1 x 1	
228757	wfsj1637+4116_054	16:43:47.60	+42:36:00.0	J2000.00	1.112	180.0	20:38:14.8	599.4	z	Gunn	1 x 1	
228758	wfsj1637+4116_054	16:43:47.60	+42:36:00.0	J2000.00	1.131	180.0	20:49:46.3	599.5	r	Sloan	1 x 1	
228759	wfsj1637+4116_009	16:30:12.40	+42:36:00.1	J2000.00	1.187	180.0	21:03:09.8	599.4	i	Sloan	1 x 1	
228760	wfsj1637+4116_009	16:30:12.39	+42:35:59.9	J2000.00	1.216	180.0	21:14:28.0	599.5	r	Sloan	1 x 1	
228761	wfsj1637+4116_009	16:30:12.40	+42:36:00.0	J2000.00	1.248	180.0	21:25:47.7	599.5	z	Gunn	1 x 1	
228762	wfsj1637+4116_008	16:30:14.59	+42:16:00.2	J2000.00	1.285	180.0	21:37:57.4	599.5	i	Sloan	1 x 1	
228763	wfsj1637+4116_008	16:30:14.60	+42:15:59.9	J2000.00	1.325	180.0	21:49:15.9	599.4	r	Sloan	1 x 1	
228764	wfsj1637+4116_008	16:30:14.60	+42:15:59.9	J2000.00	1.370	180.0	22:00:33.7	599.4	z	Gunn	1 x 1	
228765	wfsj1637+4116_007	16:30:16.67	+41:56:00.2	J2000.00	1.423	180.0	22:12:41.8	599.4	i	Sloan	1 x 1	
228766	wfsj1637+4116_007	16:30:16.70	+41:55:59.9	J2000.00	1.479	180.0	22:23:59.4	599.6	r	Sloan	1 x 1	
228767	wfsj1637+4116_007	16:30:16.70	+41:56:00.0	J2000.00	1.541	180.0	22:35:18.8	599.5	z	Gunn	1 x 1	
228768	sa113-163 V	21:42:35.00	+00:16:45.8	J2000.00	1.183	180.0	22:48:41.3	10.1	V	Harris	1 x 1	
228769	sa113-163 g	21:42:35.00	+00:16:46.0	J2000.00	1.181	180.0	22:49:51.9	10.1	g	Sloan	1 x 1	
228770	sa113-163 i	21:42:35.00	+00:16:45.9	J2000.00	1.180	180.0	22:51:00.3	10.1	i	Sloan	1 x 1	
228771	sa113-163 r	21:42:34.99	+00:16:45.9	J2000.00	1.178	180.0	22:52:08.4	10.1	r	Sloan	1 x 1	
228772	sa113-163 Z	21:42:35.00	+00:16:45.9	J2000.00	1.176	180.0	22:53:16.7	10.1	z	Gunn	1 x 1	
228773	wfsjm31_07	0:34:39.07	+39:13:00.3	J2000.00	1.448	180.0	22:56:32.2	799.0	V	Harris	1 x 1	
228774	wfsjm31_06 i	0:37:40.18	+37:56:48.2	J2000.00	1.386	180.0	23:12:48.5	799.3	i	Sloan	1 x 1	
228775	wfsjm31_06 V	0:37:40.18	+37:56:48.7	J2000.00	1.324	180.0	23:27:29.5	799.3	V	Harris	1 x 1	
228776	wfsjm31_10 i	0:40:21.82	+38:08:05.5	J2000.00	1.275	180.0	23:43:21.9	799.2	i	Sloan	1 x 1	
228777	wfsjm31_10 V	0:40:21.82	+38:08:05.7	J2000.00	1.228	180.0	23:58:01.9	799.2	V	Harris	1 x 1	
228778	M31-microfld1	0:43:59.99	+41:34:00.0	J2000.00	1.208	180.0	00:14:19.8	319.8	r	Sloan	1 x 1	
228779	M31-microfld1	0:43:59.99	+41:33:59.9	J2000.00	1.191	180.0	00:21:01.0	319.7	r	Sloan	1 x 1	
228780	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.175	180.0	00:27:42.1	319.7	i	Sloan	1 x 1	
228781	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.160	180.0	00:34:23.5	319.8	i	Sloan	1 x 1	
228782	M31-microfld2	0:43:09.99	+40:58:14.9	J2000.00	1.141	180.0	00:42:08.7	319.7	r	Sloan	1 x 1	
228783	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.128	180.0	00:48:49.6	319.8	r	Sloan	1 x 1	
228784	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.116	180.0	00:55:36.5	319.2	i	Sloan	1 x 1	

228785	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.104	180.0	01:02:23.3	319.7	i	Sloan	1 x 1
228786	wfsjm31_15 i	0:43:04.37	+38:19:09.1	J2000.00	1.079	180.0	01:10:07.5	799.1	i	Sloan	1 x 1
228787	wfsjm31_15 V	0:43:04.36	+38:19:09.1	J2000.00	1.060	180.0	01:24:47.6	798.7	V	Harris	1 x 1
228788	sa92-335 V	0:54:59.99	+00:44:13.0	J2000.00	1.212	180.0	01:40:34.4	10.1	V	Harris	1 x 1
228789	sa92-335 g	0:54:59.99	+00:44:12.9	J2000.00	1.210	180.0	01:41:43.0	10.1	g	Sloan	1 x 1
228790	sa92-335 i	0:55:00.00	+00:44:13.0	J2000.00	1.208	180.0	01:42:51.6	10.1	i	Sloan	1 x 1
228791	sa92-335 r	0:55:00.00	+00:44:13.0	J2000.00	1.206	180.0	01:44:00.5	10.1	r	Sloan	1 x 1
228792	sa92-335 Z	0:55:00.00	+00:44:13.0	J2000.00	1.203	180.0	01:45:08.5	9.6	z	Gunn	1 x 1
228793	Focus run	0:43:55.85	+38:53:33.6	J2000.00	1.044	180.0	01:49:44.7	10.1	z	Gunn	1 x 1
228794	wfsjm31_19 i	0:43:55.86	+38:52:03.5	J2000.00	1.035	180.0	01:54:00.3	799.0	i	Sloan	1 x 1
228795	wfsjm31_19 V	0:43:55.86	+38:52:03.5	J2000.00	1.026	180.0	02:08:41.8	799.3	V	Harris	1 x 1
228796	wfsjm31_23 i	0:46:40.73	+39:02:48.8	J2000.00	1.021	180.0	02:24:04.5	799.1	i	Sloan	1 x 1
228797	wfsjm31_23 V	0:46:40.73	+39:02:48.9	J2000.00	1.017	180.0	02:39:27.7	799.1	V	Harris	1 x 1
228798	wfsjm31_27 i	0:49:26.44	+39:13:19.9	J2000.00	1.017	180.0	02:54:48.5	799.2	i	Sloan	1 x 1
228799	wfsjm31_27 V	0:49:26.43	+39:13:19.7	J2000.00	1.019	180.0	03:09:28.5	799.2	V	Harris	1 x 1
228800	wfsjm31_31 i	0:50:21.74	+39:46:04.7	J2000.00	1.026	180.0	03:25:14.0	799.1	i	Sloan	1 x 1
228801	wfsjm31_31 V	0:50:21.74	+39:46:05.0	J2000.00	1.034	180.0	03:39:53.7	799.3	V	Harris	1 x 1
228802	wfsjm31_35 i	0:53:09.70	+39:56:15.6	J2000.00	1.044	180.0	03:55:56.6	799.2	i	Sloan	1 x 1
228803	wfsjm31_35 V	0:53:09.70	+39:56:15.6	J2000.00	1.058	180.0	04:10:36.9	799.3	V	Harris	1 x 1
228804	wfsjm31_34 i	0:51:17.92	+40:18:49.4	J2000.00	1.080	180.0	04:26:22.3	799.2	i	Sloan	1 x 1
228805	wfsjm31_34 V	0:51:17.92	+40:18:49.2	J2000.00	1.102	180.0	04:41:27.0	799.2	V	Harris	1 x 1
228806	wfsjm31_33 i	0:49:24.85	+40:41:16.8	J2000.00	1.134	180.0	04:57:09.9	799.3	i	Sloan	1 x 1
228807	wfsjm31_33	0:49:24.84	+40:41:16.7	J2000.00	1.190	180.0	05:22:12.9	799.2	V	Harris	1 x 1
228809	wfsjm31_32	0:47:30.45	+41:03:37.7	J2000.00	1.239	180.0	05:38:06.9	799.1	i	Sloan	1 x 1
228810	sa95-330 V	3:54:31.00	+00:29:04.9	J2000.00	1.136	180.0	05:53:45.6	9.6	V	Harris	1 x 1
228811	sa95-330 g	3:54:31.00	+00:29:04.9	J2000.00	1.136	180.0	05:54:52.6	9.6	g	Sloan	1 x 1
228812	sa95-330 i	3:54:31.00	+00:29:04.9	J2000.00	1.136	180.0	05:55:59.5	10.1	i	Sloan	1 x 1
228813	sa95-330 r	3:54:31.00	+00:29:05.0	J2000.00	1.136	180.0	05:57:07.0	10.1	r	Sloan	1 x 1
228814	sa95-330 Z	3:54:31.00	+00:29:05.0	J2000.00	1.135	180.0	05:58:14.4	10.1	z	Gunn	1 x 1