INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE:	INT
DATE:	20001116
TAPE NR:	CD Tower
OBSERVER:	P. Bunclark
PROGRAMME:	WFS9+M31
PATT/CAT REF.:	WFS9+M31
TELESCOPE OPERATOR:	C. Martin
SUPPORT ASTRONOMER:	--
TELESCOPE FOCUS:	46.10 mm
CALIBRATE RESULTS:	HI 22.7 +/- 6.2, DI -46.2 +/- 2.1, HC 55.9 +/- 4.5, Sky sigma 5.5
INSTRUMENT:	WFC
WFC FILTER WHEEL:	i,U,V,g,Z,r
WEATHER:	(1st half) moderate
	(2nd half) Good
CLOUD COVER (%):	(1st half) 10
	(2nd half) 05
DUST (0-2):	(1st half) 0
	(2nd half) 0
SEEING (arcsec):	(1st half) 1
	(2nd half) 1.3
DOME OPENED (UT):	17:45

METEOROLOGICAL PARAMETERS

LT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
19:00	8.4	4	17.5	21.4	84	770.9	8.7	9.7	10.8	3	4
20:00	8.4	4	17.6	20.0	43	771.6	8.4	9.6	10.4	3	5
21:00	8.1	4	24.4	26.9	46	771.9	8.4	9.4	10.0	3	4
22:00	8.3	6	18.2	20.9	50	772.0	8.6	9.2	10.2	4	5
23:00	8.2	7	19.4	21.8	57	772.1	8.6	9.4	9.9	4	7
00:00	8.3	17	15.2	17.1	45	771.9	8.8	9.4	10.2	16	16
01:00	7.7	6	21.6	22.3	24	771.8	8.2	8.9	9.8	3	10
02:00	7.1	8	24.3	26.2	29	771.6	7.7	8.6	9.8	6	11
03:00	6.8	17	8.9	10.2	146	771.5	7.4	8.3	9.3	14	15
04:00	7.9	13	2.9	4.7	125	771.5	8.3	8.5	9.2	11	12
05:00	7.3	13	7.4	9.8	128	771.3	7.7	8.0	8.8	12	13
06:00	6.6	18	11.6	14.0	46	771.3	6.8	8.1	9.6	17	16
07:00	6.9	14	12.6	16.3	158	771.5	7.4	8.1	9.1	14	13

SUNSET(UT)	18:25
EVENING TWILIGHT(UT)	19:39
MORNING TWILIGHT(UT)	06:14
SUNRISE(UT)	07:28
MOON'S QUARTER (1-4)	3
DISK % OF ILLUM.	70
DARK TIME	10:35
TWILIGHT TIME	02:28
MOONRISE(UT)	22:53
MOONSET(UT)	No moonset within sunset-sunrise
TIME LOST(WEATHER):	00:00
TIME LOST(TECHNICAL):	00:10
TIME LOST(OTHER):	00:00

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
236129	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.1	14:24:13.5	0.0	U	RGO	1 x 1	
236130	Sky background	22:58:00.00	+00:05:00.0	J2000.00	1.278	180.1	18:37:00.2	5.1	z	Gunn	1 x 1	
236131	Sky background	22:58:00.00	+00:05:30.0	J2000.00	1.274	180.1	18:38:34.6	7.6	z	Gunn	1 x 1	
236132	Sky background	22:58:00.00	+00:05:59.9	J2000.00	1.269	180.1	18:40:04.3	12.1	z	Gunn	1 x 1	
236133	Sky background	22:58:00.00	+00:06:00.0	J2000.00	1.265	180.1	18:41:44.9	12.1	U	RGO	1 x 1	
236134	Sky background	22:58:00.00	+00:06:00.0	J2000.00	1.261	180.1	18:43:06.2	20.1	U	RGO	1 x 1	
236135	Sky background	22:58:02.00	+00:06:30.0	J2000.00	1.257	180.1	18:44:44.2	30.1	U	RGO	1 x 1	
236136	Sky background	22:58:00.00	+00:06:00.0	J2000.00	1.253	180.1	18:46:30.6	10.1	g	Sloan	1 x 1	
236137	Sky background	22:58:02.00	+00:06:30.0	J2000.00	1.248	180.1	18:48:12.8	8.1	g	Sloan	1 x 1	
236138	Sky background	22:58:04.00	+00:06:59.9	J2000.00	1.245	180.1	18:49:39.6	11.6	g	Sloan	1 x 1	
236139	Sky background	22:58:02.00	+00:06:29.9	J2000.00	1.240	180.1	18:51:21.6	25.1	r	Sloan	1 x 1	
236140	Sky background	22:58:00.00	+00:05:59.9	J2000.00	1.236	180.1	18:53:10.2	30.1	r	Sloan	1 x 1	
236141	Sky background	22:58:04.00	+00:06:59.9	J2000.00	1.231	180.1	18:55:15.0	30.1	r	Sloan	1 x 1	
236142	Sky background	22:58:04.00	+00:06:59.9	J2000.00	1.227	180.1	18:57:00.8	60.1	i	Sloan	1 x 1	
236143	Sky background	22:58:02.00	+00:06:29.9	J2000.00	1.222	180.1	18:59:17.6	99.5	i	Sloan	1 x 1	
236144	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.175	180.1	20:07:26.0	60.1	U	RGO	1 x 1	high crap
236145	sa113-163	21:42:35.49	+00:16:45.9	J2000.00	1.178	180.1	20:09:35.9	10.1	g	Sloan	1 x 1	
236146	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.180	180.1	20:10:55.2	10.1	r	Sloan	1 x 1	
236147	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	1.181	180.1	20:12:10.6	10.1	i	Sloan	1 x 1	
236148	sa113-163	21:42:35.49	+00:16:46.0	J2000.00	1.183	180.1	20:13:28.6	20.1	z	Gunn	1 x 1	
236149	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	1.185	180.1	20:14:55.6	10.1	V	Harris	1 x 1	
236152	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.293	180.1	20:25:13.3	60.0	U	RGO	1 x 1	improved
236153	sa92-335	0:54:58.29	+00:44:01.0	J2000.00	1.288	180.1	20:27:21.5	10.1	g	Sloan	1 x 1	
236154	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.284	180.1	20:28:38.8	10.1	r	Sloan	1 x 1	
236155	sa92-335	0:54:58.30	+00:44:01.0	J2000.00	1.280	180.1	20:29:54.7	10.1	i	Sloan	1 x 1	
236156	sa92-335	0:54:58.29	+00:44:01.0	J2000.00	1.276	180.1	20:31:12.7	19.6	z	Gunn	1 x 1	
236157	sa92-335	0:54:58.30	+00:44:00.9	J2000.00	1.272	180.1	20:32:40.2	10.1	V	Harris	1 x 1	
236158	M31-microfld1	0:44:00.00	+41:34:00.1	J2000.00	1.081	180.1	20:37:39.9	319.8	r	Sloan	1 x 1	some thin high
236159	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.073	180.1	20:44:23.1	319.8	r	Sloan	1 x 1	
236160	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.065	180.1	20:51:09.2	319.9	i	Sloan	1 x 1	
236161	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.058	180.1	20:57:51.3	319.7	i	Sloan	1 x 1	
236162	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.048	180.1	21:05:36.9	319.7	r	Sloan	1 x 1	
236163	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.043	180.1	21:12:14.3	319.8	r	Sloan	1 x 1	
236164	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.039	180.1	21:18:51.5	319.7	i	Sloan	1 x 1	
236165	M31-microfld2	0:43:09.99	+40:58:14.9	J2000.00	1.034	180.1	21:25:45.0	319.9	i	Sloan	1 x 1	
236166	wfsj0219-0500_013	2:15:47.19	-05:20:00.2	J2000.00	1.417	180.1	21:34:02.3	599.4	r	Sloan	1 x 1	
236167	wfsj0219-0500_014	2:15:47.29	-04:59:59.9	J2000.00	1.367	180.1	21:46:19.4	599.5	r	Sloan	1 x 1	
236168	wfsj0219-0500_015	2:15:47.39	-04:39:59.8	J2000.00	1.324	180.1	21:58:25.5	599.5	r	Sloan	1 x 1	
236169	wfsj0219-0500_031	2:20:04.29	-05:20:00.0	J2000.00	1.287	180.1	22:22:17.9	599.5	r	Sloan	1 x 1	
236170	wfsj0219-0500_031	2:20:04.30	-05:20:00.0	J2000.00	1.265	180.1	22:33:35.8	599.4	i	Sloan	1 x 1	
236171	wfsj0219-0500_032	2:20:04.20	-04:59:59.9	J2000.00	1.242	180.1	22:44:58.3	599.5	r	Sloan	1 x 1	
236172	wfsj0219-0500_032	2:20:04.19	-05:00:00.0	J2000.00	1.227	180.1	22:56:14.2	599.5	i	Sloan	1 x 1	UFOs crossing.
236173	wfsj0219-0500_033	2:20:04.20	-04:39:59.7	J2000.00	1.211	180.1	23:07:35.5	599.3	r	Sloan	1 x 1	
236174	wfsj0219-0500_033	2:20:04.20	-04:39:59.9	J2000.00	1.204	180.1	23:18:51.6	599.1	i	Sloan	1 x 1	
236175	0231+051	2:33:41.29	+05:18:44.5	J2000.00	1.098	180.1	23:30:44.5	20.1	U	RGO	1 x 1	
236176	0231+051	2:33:41.30	+05:18:45.0	J2000.00	1.097	180.1	23:32:12.5	9.6	g	Sloan	1 x 1	
236177	0231+051	2:33:41.30	+05:18:45.0	J2000.00	1.097	180.1	23:33:31.9	10.1	r	Sloan	1 x 1	
236178	0231+051	2:33:41.29	+05:18:44.9	J2000.00	1.096	180.1	23:34:48.5	9.6	i	Sloan	1 x 1	
236179	0231+051	2:33:41.30	+05:18:45.0	J2000.00	1.095	180.1	23:36:08.6	10.1	z	Gunn	1 x 1	
236180	0231+051	2:33:41.30	+05:18:45.0	J2000.00	1.095	180.1	23:37:28.2	10.1	V	Harris	1 x 1	
236181	wfsj0347+2400-iz84	3:54:11.99	+24:06:00.1	J2000.00	1.070	180.1	23:42:39.6	799.3	i	Sloan	1 x 1	
236182	wfsj0347+2400-iz84	3:54:12.00	+24:06:00.0	J2000.00	1.050	180.1	23:57:26.2	799.2	z	Gunn	1 x 1	
236183	wfsj0347+2400-iz85	3:56:24.00	+24:06:00.1	J2000.00	1.034	180.1	00:13:12.4	799.2	i	Sloan	1 x 1	
236184	wfsj0347+2400-iz85	3:56:24.00	+24:05:59.9	J2000.00	1.021	180.1	00:27:59.4	799.2	z	Gunn	1 x 1	
236185	wfsj0347+2400-iz86	3:58:36.00	+24:06:00.0	J2000.00	1.012	180.1	00:43:48.2	799.3	i	Sloan	1 x 1	
236186	wfsj0347+2400-iz86	3:58:36.00	+24:05:59.9	J2000.00	1.006	180.1	00:58:37.5	799.4	z	Gunn	1 x 1	
236187	wfsj0347+2400-iz87	3:54:12.00	+23:44:00.1	J2000.00	1.004	180.1	01:14:24.3	799.3	i	Sloan	1 x 1	
236188	wfsj0347+2400-iz87	3:54:12.00	+23:44:00.0	J2000.00	1.006	180.1	01:29:20.6	799.3	z	Gunn	1 x 1	
236189	wfsj0347+2400-iz88	3:56:24.00	+23:44:00.0	J2000.00	1.011	180.1	01:45:08.1	799.2	i	Sloan	1 x 1	
236190	wfsj0347+2400-iz88	3:56:24.00	+23:43:59.9	J2000.00	1.019	180.1	01:59:58.1	799.1	z	Gunn	1 x 1	
236191	wfsj0347+2400-iz89	3:58:35.99	+23:44:00.0	J2000.00	1.030	180.1	02:15:43.7	799.2	i	Sloan	1 x 1	

236192	wfsj0347+2400-iz89	3:58:36.00	+23:43:59.9	J2000.00	1.046	180.1	02:30:33.5	799.4	z	Gunn	1 x 1
236193	wfsj0347+2400-iz90	3:56:59.99	+25:39:59.9	J2000.00	1.066	180.1	02:46:22.1	799.2	i	Sloan	1 x 1
236194	wfsj0347+2400-iz90	3:56:59.99	+25:39:59.9	J2000.00	1.091	180.1	03:01:07.2	799.2	z	Gunn	1 x 1
236196	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.003	180.1	03:34:47.9	0.0	z	Gunn	1 x 1 mirror
236197	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.1	03:36:15.9	0.0	z	Gunn	1 x 1
236198	sa98-670	6:52:11.49	-00:19:15.9	J2000.00	1.159	180.1	03:39:40.6	60.1	U	RGO	1 x 1
236199	sa98-670	6:52:11.50	-00:19:15.9	J2000.00	1.158	180.1	03:41:44.5	10.1	g	Sloan	1 x 1
236200	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.157	180.1	03:42:58.6	10.1	r	Sloan	1 x 1
236201	sa98-670	6:52:11.50	-00:19:15.9	J2000.00	1.156	180.1	03:44:10.7	10.1	i	Sloan	1 x 1
236202	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.155	180.1	03:45:24.5	10.1	z	Gunn	1 x 1
236203	sa98-670	6:52:11.50	-00:19:15.9	J2000.00	1.154	180.1	03:46:37.6	9.6	V	Harris	1 x 1
236204	wfsj0347+2400-iz91	3:54:17.99	+26:15:00.0	J2000.00	1.218	180.1	03:50:37.5	799.3	i	Sloan	1 x 1
236205	wfsj0347+2400-iz91	3:54:18.00	+26:14:59.9	J2000.00	1.283	180.1	04:05:18.4	1198.7	z	Gunn	1 x 1
236206	wfsj0347+2400-iz92	3:50:05.99	+26:44:59.9	J2000.00	1.383	180.1	04:27:40.9	799.2	i	Sloan	1 x 1
236207	wfsj0347+2400-iz92	3:50:06.00	+26:45:00.0	J2000.00	1.483	180.1	04:42:22.1	1198.9	z	Gunn	1 x 1
236208	F61c	9:45:56.30	+67:44:55.9	B1950.00	1.349	180.1	05:13:31.0	1198.7	g	Sloan	1 x 1
236209	F61c	9:45:56.30	+67:44:56.0	B1950.00	1.320	180.1	05:39:43.9	1198.8	r	Sloan	1 x 1
236210	F61c	9:45:56.30	+67:44:56.0	B1950.00	1.303	180.1	06:00:41.1	1198.9	i	Sloan	1 x 1
236211	sa98-670	6:52:11.49	-00:19:16.0	J2000.00	1.356	180.1	06:26:37.6	59.6	U	RGO	1 x 1
236212	sa98-670	6:52:11.50	-00:19:15.9	J2000.00	1.362	180.1	06:28:41.6	10.1	g	Sloan	1 x 1
236213	sa98-670	6:52:11.50	-00:19:15.9	J2000.00	1.367	180.1	06:29:55.5	10.1	r	Sloan	1 x 1
236214	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.372	180.1	06:31:07.5	10.1	i	Sloan	1 x 1
236215	sa98-670	6:52:11.49	-00:19:15.9	J2000.00	1.377	180.1	06:32:21.8	10.1	z	Gunn	1 x 1
236216	sa98-670	6:52:11.50	-00:19:16.0	J2000.00	1.382	180.1	06:33:35.3	10.1	V	Harris	1 x 1
236218	Sky background	10:00:00.00	+28:00:00.0	J2000.00	1.009	180.1	06:48:56.8	100.0	g	Sloan	1 x 1
236219	Sky background	10:00:02.26	+28:00:29.8	J2000.00	1.008	180.1	06:51:46.9	100.0	g	Sloan	1 x 1
236220	Sky background	10:00:09.06	+28:02:00.0	J2000.00	1.006	180.1	06:56:44.8	50.0	g	Sloan	1 x 1
236221	Sky background	10:00:09.06	+28:01:59.9	J2000.00	1.005	180.1	07:00:06.7	40.1	r	Sloan	1 x 1
236222	Sky background	10:00:11.33	+28:02:29.9	J2000.00	1.004	180.1	07:01:58.8	40.1	r	Sloan	1 x 1
236223	Sky background	10:00:13.59	+28:03:00.0	J2000.00	1.003	180.1	07:04:15.4	20.1	r	Sloan	1 x 1
236224	Sky background	10:00:13.59	+28:02:59.9	J2000.00	1.003	180.1	07:06:18.7	10.1	i	Sloan	1 x 1
236225	Sky background	10:00:11.33	+28:02:30.0	J2000.00	1.002	180.1	07:07:28.8	6.1	i	Sloan	1 x 1
236226	Sky background	10:00:09.06	+28:01:59.9	J2000.00	1.002	180.1	07:09:30.3	5.1	i	Sloan	1 x 1
236227	Sky background	10:00:09.06	+28:02:00.0	J2000.00	1.001	180.1	07:11:13.5	12.1	z	Gunn	1 x 1
236228	Sky background	10:00:09.06	+28:01:59.9	J2000.00	1.001	180.1	07:12:40.9	12.1	z	Gunn	1 x 1
236229	Sky background	10:00:11.32	+28:02:30.0	J2000.00	1.001	180.1	07:13:53.7	10.1	z	Gunn	1 x 1
236230	Sky background	10:00:13.59	+28:03:00.0	J2000.00	1.001	180.1	07:15:06.7	6.1	z	Gunn	1 x 1
236231	Sky background	10:00:13.59	+28:02:59.9	J2000.00	1.001	180.1	07:16:59.3	3.1	U	RGO	1 x 1
236232	Sky background	10:00:11.32	+28:02:30.0	J2000.00	1.000	180.1	07:18:02.9	1.1	U	RGO	1 x 1
236233	Sky background	10:00:09.05	+28:02:00.0	J2000.00	1.000	180.1	07:19:03.7	1.2	U	RGO	1 x 1