INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

```
TELESCOPE:            INT
DATE:                 20001224
TAPE NR:
OBSERVER:             Javier Mendez and Samantha Rix
PROGRAMME:            Wide Field Survey
PATT/CAT REF.:        WFS9+M31
TELESCOPE OPERATOR:   none
SUPPORT ASTRONOMER:   none

TELESCOPE FOCUS:      46.02 mm
CALIBRATE RESULTS:    HI 48.51 +/- 0.0, DI -49.02 +/- 0.0, HC  +/- , Sky sigma 0.01

INSTRUMENT:           WFC

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

WEATHER:              (1st half) bad
                      (2nd half) fair
CLOUD COVER (%):      (1st half) 100
                      (2nd half) 0
DUST (0-2):           (1st half) 0
                      (2nd half) 0
SEEING (arcsec):      (1st half) 2.5
                      (2nd half) 1.8

DOME OPENED (UT):     18:30
```

METEOROLOGICAL PARAMETERS

LT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
19:00	3.2	39	34.1	37.4	247	764.5	3.3	5.0	7.3	41	36
20:00	2.7	44	31.5	38.0	253	764.6	3.5	5.3	7.1	41	35
21:00	0.5	100	33.7	38.8	252	764.6	0.8	5.1	7.6	98	73
22:00	-0.9	100	33.0	35.6	242	765.3	-0.4	5.0	7.4	98	69
23:00	0.2	86	32.9	36.7	251	765.6	1.0	4.9	7.4	73	60
00:00	2.7	45	33.4	37.2	246	765.8	2.8	4.4	7.0	44	59
01:00	3.9	34	25.2	27.6	206	765.5	4.8	5.5	6.4	29	27
02:00	5.0	16	29.6	36.5	253	764.9	5.8	6.5	6.9	13	13
03:00	6.1	12	30.1	34.8	255	765.1	6.1	6.2	7.0	13	15
04:00	6.1	13	28.6	31.9	261	765.0	6.4	6.8	7.1	12	13
05:00	6.2	10	31.2	36.8	245	764.7	7.0	7.8	8.0	8	7
06:00	6.4	13	37.9	43.0	264	764.5	7.4	7.8	8.2	10	10
07:00	6.4	13	39.4	42.1	269	764.9	7.1	7.5	8.1	12	12

```
SUNSET(UT)            18:28
EVENING TWILIGHT(UT)  19:45
MORNING TWILIGHT(UT)  06:38
SUNRISE(UT)           07:54
MOON'S QUARTER (1-4)  4
DISK % OF ILLUM.      1
DARK TIME             10:53
TWILIGHT TIME         02:33
MOONRISE(UT)          07:35
MOONSET(UT)           No moonset within sunset-sunrise

TIME LOST(WEATHER):   04:00
TIME LOST(TECHNICAL): 00:00
TIME LOST(OTHER):     00:00
```

COMMENTS:

Seeing very unstable at the begining of the night. Difficult to get a seeing measurement for the first half of the night.

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
241938	Bias	0:00:00.00	+00:00:00.0	A	1.514	180.0	16:04:11.7	0.0	g	Sloan	1 x 1	
241939	test	22:59:59.99	+55:59:59.9	A	1.193	180.0	16:11:43.1	4.1	U	RGO	1 x 1	
241940	Bias	22:59:59.99	+55:59:59.9	A	1.189	180.0	16:14:28.2	0.0	U	RGO	1 x 1	
241941	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.0	16:51:18.2	0.0	U	RGO	1 x 1	
241942	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.0	16:53:36.4	0.0	z	Gunn	1 x 1	
241943	Bias	0:00:00.00	+00:00:00.0	A	1.204	180.0	16:54:15.9	0.0	z	Gunn	1 x 1	
241944	Bias	0:00:00.00	+00:00:00.0	A	2.645	180.0	16:54:55.1	0.0	z	Gunn	1 x 1	
241945	Bias	0:00:00.00	+00:00:00.0	A	2.900	180.0	16:55:34.1	0.0	z	Gunn	1 x 1	
241946	Bias	0:00:00.00	+00:00:00.0	A	2.900	180.0	16:56:13.2	0.0	z	Gunn	1 x 1	
241947	Flat field	22:58:00.00	+00:05:00.0	J2000.00	1.168	180.0	18:45:58.6	5.2	z	Gunn	1 x 1	
241948	Flat field	22:58:02.00	+00:05:30.0	J2000.00	1.169	180.0	18:47:12.6	8.1	z	Gunn	1 x 1	
241949	Flat field	22:58:04.00	+00:05:59.9	J2000.00	1.171	180.0	18:48:29.9	12.5	z	Gunn	1 x 1	
241950	Flat field	22:58:06.00	+00:06:30.0	J2000.00	1.173	180.0	18:49:51.6	68.3	z	Gunn	1 x 1	saturated?
241951	Flat field	22:58:06.00	+00:06:29.9	J2000.00	1.175	180.0	18:52:10.0	11.6	V	Harris	1 x 1	
241952	Flat field	22:58:02.00	+00:05:29.9	J2000.00	1.177	180.0	18:53:33.4	13.5	V	Harris	1 x 1	
241953	Flat field	22:58:04.00	+00:05:59.9	J2000.00	1.179	180.0	18:54:56.5	18.8	V	Harris	1 x 1	
241954	Flat field	22:58:03.99	+00:05:59.9	J2000.00	1.181	180.0	18:56:24.8	20.6	r	Sloan	1 x 1	
241955	Flat field	22:57:58.00	+00:04:29.9	J2000.00	1.184	180.0	18:57:55.2	28.5	r	Sloan	1 x 1	
241956	Flat field	22:57:56.00	+00:04:00.0	J2000.00	1.187	180.0	18:59:31.9	40.6	r	Sloan	1 x 1	
241957	Flat field	22:57:55.99	+00:04:00.0	J2000.00	1.189	180.0	19:01:20.5	49.1	i	Sloan	1 x 1	
241958	Flat field	22:58:01.99	+00:05:30.0	J2000.00	1.192	180.0	19:03:17.9	71.0	i	Sloan	1 x 1	
241959	Flat field	22:58:03.99	+00:06:00.0	J2000.00	1.197	180.0	19:05:37.9	107.9	i	Sloan	1 x 1	
241960	Flat field	22:58:06.00	+00:06:30.0	J2000.00	1.203	180.0	19:08:34.5	183.9	i	Sloan	1 x 1	
241961	Focus run	0:55:00.00	+00:46:43.0	J2000.00	1.143	180.0	19:21:09.0	10.1	V	Harris	1 x 1	
241962	Focus run	0:55:00.00	+00:46:43.0	J2000.00	1.139	180.0	19:28:21.4	10.1	V	Harris	1 x 1	
241965	Focus run	0:55:00.00	+00:46:43.0	J2000.00	1.133	180.0	19:42:31.1	10.1	V	Harris	1 x 1	
241966	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.027	180.0	19:52:39.9	319.8	r	Sloan	1 x 1	
241967	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.028	180.0	19:59:19.1	319.8	r	Sloan	1 x 1	
241968	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.031	180.0	20:05:57.0	319.8	i	Sloan	1 x 1	
241969	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.033	180.0	20:12:34.4	319.8	i	Sloan	1 x 1	
241970	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.035	180.0	20:20:15.6	319.7	r	Sloan	1 x 1	useless
241972	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.044	180.0	20:35:47.8	0.0	r	Sloan	1 x 1	
241973	wfsj0347+2400-iz06	3:47:55.99	+23:14:43.2	J2000.00	1.093	180.0	00:22:38.4	599.5	i	Sloan	1 x 1	bad seeing
241974	wfsj0347+2400-iz10	3:43:07.94	+23:58:38.0	J2000.00	1.127	180.0	00:35:22.3	599.4	i	Sloan	1 x 1	bad seeing
241975	wfsj0347+2400-iz12	3:47:25.39	+22:48:39.7	J2000.00	1.151	180.0	00:48:27.7	599.5	i	Sloan	1 x 1	bad seeing
241976	wfsj0347+2400-iz13	3:45:27.68	+23:01:54.6	J2000.00	1.190	180.0	01:00:59.3	599.5	i	Sloan	1 x 1	bad seeing
241977	wfsj0347+2400-iz14	3:43:31.82	+23:06:32.0	J2000.00	1.236	180.0	01:13:33.6	598.9	i	Sloan	1 x 1	bad seeing
241978	wfsj0347+2400-iz24	3:45:27.96	+22:36:19.1	J2000.00	1.277	180.0	01:26:08.3	599.5	i	Sloan	1 x 1	bad seeing
241979	wfsj0347+2400-iz25	3:43:26.49	+22:38:05.5	J2000.00	1.350	180.0	01:41:15.5	599.0	i	Sloan	1 x 1	bad seeing
241980	wfsj0347+2400-iz26	3:41:13.62	+23:07:13.5	J2000.00	1.421	180.0	01:53:38.8	599.5	i	Sloan	1 x 1	bad seeing
241981	wfsj0801+4019_013	7:57:47.09	+39:58:59.9	J2000.00	1.030	180.0	02:09:35.6	599.5	r	Sloan	1 x 1	buena
241982	wfsj0801+4019_013	7:57:47.10	+39:59:00.0	J2000.00	1.025	180.0	02:21:10.0	599.4	g	Sloan	1 x 1	buena
241983	wfsj0801+4019_014	7:57:45.90	+40:18:59.8	J2000.00	1.022	180.0	02:33:41.1	599.2	r	Sloan	1 x 1	buena
241984	wfsj0801+4019_014	7:57:45.89	+40:19:00.0	J2000.00	1.021	180.0	02:45:19.2	599.5	g	Sloan	1 x 1	buena
241985	wfsj0801+4019_015	7:57:44.80	+40:39:00.0	J2000.00	1.023	180.0	02:58:07.4	599.4	r	Sloan	1 x 1	buena
241986	wfsj0801+4019_015	7:57:44.80	+40:39:00.0	J2000.00	1.025	180.0	03:09:43.3	599.5	g	Sloan	1 x 1	buena
241987	wfsj0801+4019_001	7:55:16.10	+38:58:59.9	J2000.00	1.029	180.0	03:30:09.9	599.5	r	Sloan	1 x 1	buena
241988	wfsj0801+4019_001	7:55:16.09	+38:59:00.0	J2000.00	1.037	180.0	03:41:52.5	599.5	g	Sloan	1 x 1	moved
241989	wfsj0801+4019_002	7:55:14.19	+39:19:00.1	J2000.00	1.050	180.0	03:54:43.6	598.9	r	Sloan	1 x 1	buena
241990	wfsj0801+4019_002	7:55:14.20	+39:19:00.0	J2000.00	1.061	180.0	04:05:47.7	599.4	g	Sloan	1 x 1	buena
241991	wfsj0801+4019_003	7:55:12.40	+39:39:00.0	J2000.00	1.078	180.0	04:18:11.6	599.3	r	Sloan	1 x 1	acceptable
241992	wfsj0801+4019_003	7:55:12.40	+39:39:00.0	J2000.00	1.093	180.0	04:29:15.5	599.5	g	Sloan	1 x 1	buena
241993	wfsj0801+4019_001	7:55:16.09	+38:59:00.0	J2000.00	1.113	180.0	04:42:16.6	599.1	g	Sloan	1 x 1	buena
241994	wfsj0801+4019_011	7:57:49.30	+39:19:00.0	J2000.00	1.134	180.0	04:55:06.4	599.5	g	Sloan	1 x 1	buena
241995	wfsj0801+4019_012	7:57:48.20	+39:39:00.0	J2000.00	1.161	180.0	05:07:26.9	599.6	g	Sloan	1 x 1	buena
241996	wfsj0801+4019_008	7:55:02.60	+41:18:59.9	J2000.00	1.206	180.0	05:21:40.3	599.5	r	Sloan	1 x 1	mala
241997	wfsj0801+4019_008	7:55:02.59	+41:19:00.1	J2000.00	1.237	180.0	05:32:58.0	599.4	g	Sloan	1 x 1	mala
241998	wfsj0801+4019_008	7:55:02.60	+41:19:00.0	J2000.00	1.272	180.0	05:44:16.6	599.0	i	Sloan	1 x 1	buena
241999	wfsj0801+4019_008	7:55:02.60	+41:19:00.0	J2000.00	1.311	180.0	05:55:35.4	599.5	z	Gunn	1 x 1	buena
242000	wfsj0801+4019_013	7:57:47.10	+39:58:59.9	J2000.00	1.350	180.0	06:08:21.8	599.5	z	Gunn	1 x 1	buena

242001	Flat field	15:02:00.00	+29:55:00.0	J2000.00	1.322	180.0	07:13:53.8	216.3	i	Sloan	1 x 1
242002	Flat field	15:02:00.00	+29:54:59.9	J2000.00	1.322	180.0	07:18:55.5	112.4	r	Sloan	1 x 1
242003	Flat field	15:02:02.30	+29:55:30.0	J2000.00	1.322	180.0	07:22:09.2	60.2	r	Sloan	1 x 1
242004	Flat field	15:02:02.30	+29:55:30.0	J2000.00	1.322	180.0	07:24:18.6	46.2	g	Sloan	1 x 1
242005	Flat field	15:02:04.61	+29:56:00.0	J2000.00	1.322	180.0	07:26:39.8	16.5	g	Sloan	1 x 1
242006	Flat field	15:02:06.92	+29:56:29.9	J2000.00	1.322	180.0	07:28:18.5	13.9	g	Sloan	1 x 1
242007	Flat field	15:01:57.69	+29:54:30.0	J2000.00	1.322	180.0	07:31:02.8	29.1	z	Gunn	1 x 1
242008	Flat field	15:01:55.38	+29:54:00.0	J2000.00	1.322	180.0	07:33:14.2	20.8	z	Gunn	1 x 1
242009	Flat field	15:02:02.30	+29:55:29.9	J2000.00	1.322	180.0	07:35:07.1	12.7	z	Gunn	1 x 1
242010	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.322	180.0	07:39:40.9	0.0	z	Gunn	1 x 1
242011	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.322	180.0	07:40:20.0	0.0	z	Gunn	1 x 1
242012	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.322	180.0	07:40:59.5	0.0	z	Gunn	1 x 1
242013	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.322	180.0	07:41:40.1	0.0	z	Gunn	1 x 1
242014	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.322	180.0	07:42:19.4	0.0	z	Gunn	1 x 1