INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:             INT
DATE:                  20020306
TAPE NR:
OBSERVER:              J. Davies and S. Roberts
PROGRAMME:             Virgo cluster
PATT/CAT REF.:         WFS2
TELESCOPE OPERATOR:    none
SUPPORT ASTRONOMER:    none

TELESCOPE FOCUS:       44.00 mm
CALIBRATE RESULTS:     not specified

INSTRUMENT:            WFC

WFC FILTER WHEEL:      U, B, KPB, Z, R, I

WEATHER:               (1st half) fair
                       (2nd half) fair
CLOUD COVER (%):       (1st half)
                       (2nd half)
DUST (0-2):            (1st half) 0
                       (2nd half) 0
SEEING (arcsec):       (1st half) 2.5
                       (2nd half) 2.0

DOME OPENED (UT):      19:30
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METEOROLOGICAL PARAMETERS

LT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
20:00	4.0	9	24.3	26.8	11	768.9	4.4	6.0	7.5	8	9
21:00	3.4	15	30.7	38.4	8	769.1	3.6	6.3	7.0	15	13
22:00	3.2	14	31.3	34.7	37	769.2	3.8	5.7	6.5	13	15
23:00	3.1	17	38.1	41.8	1	769.4	3.7	5.2	6.5	12	15
00:00	2.9	12	38.8	45.3	11	769.4	3.2	5.1	6.2	13	13
01:00	2.4	12	38.5	40.7	8	769.0	2.8	5.0	6.2	11	12
02:00	3.4	14	34.2	38.0	19	768.8	3.7	4.9	5.9	13	14
03:00	2.7	18	26.6	30.2	26	768.2	3.3	4.7	5.9	16	17
04:00	2.6	20	32.8	34.7	14	767.7	3.1	5.1	5.6	18	17
05:00	3.7	10	29.8	31.0	21	768.0	4.3	5.4	5.3	8	12
06:00	3.5	11	25.3	28.2	21	768.3	3.9	4.6	5.5	10	12
07:00	3.3	10	18.6	24.3	21	768.6	3.9	5.4	5.6	8	9

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SUNSET(UT)             19:21
EVENING TWILIGHT(UT)   20:32
MORNING TWILIGHT(UT)   06:12
SUNRISE(UT)            07:24
MOON'S QUARTER (1-4)   4
DISK % OF ILLUM.       40
DARK TIME              09:40
TWILIGHT TIME          02:23
MOONRISE(UT)           02:57
MOONSET(UT)            No moonset within sunset-sunrise

TIME LOST(WEATHER):    00:00
TIME LOST(TECHNICAL):  00:00
TIME LOST(OTHER):      00:00
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COMMENTS:
  Probable cloud cover, but not sure how much.

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
295846	Bias	0:00:00.00	+00:00:00.0	A	1.522	180.1	13:50:60.1	0.0	z	Gunn	1 x 1	
295847		0:00:00.00	+00:00:00.0	A	1.522	180.1	13:56:37.3	5.1	U	RGO	1 x 1	
295848		0:00:00.00	+00:00:00.0	A	1.522	180.1	14:01:10.3	5.1	B	Harris	1 x 1	
295849		0:00:00.00	+00:00:00.0	A	1.522	180.1	14:03:03.5	4.6	V	Harris	1 x 1	
295850	Flat field	2:57:59.99	-00:06:00.0	J2000.00	1.437	180.1	19:41:57.6	5.1	B	Harris	1 x 1	
295851	Flat field	2:58:00.00	-00:05:59.9	J2000.00	1.444	180.1	19:43:20.5	7.6	B	Harris	1 x 1	
295852	Flat field	2:57:59.99	-00:05:50.0	J2000.00	1.451	180.1	19:44:44.7	11.1	B	Harris	1 x 1	
295853	Flat field	2:57:59.99	-00:05:49.9	J2000.00	1.460	180.1	19:46:28.7	22.1	I	INT-WFC	1 x 1	
295854	Flat field	2:58:00.66	-00:05:49.9	J2000.00	1.470	180.1	19:48:13.0	40.1	I	INT-WFC	1 x 1	
295855	Flat field	2:58:00.00	-00:06:00.0	J2000.00	1.484	180.1	19:50:37.7	70.0	I	INT-WFC	1 x 1	
295856	Focus run	6:52:11.80	-00:15:53.8	J2000.00	1.169	180.1	20:19:06.3	10.1	B	Harris	1 x 1	
295857	Bias frame	6:52:11.79	-00:13:23.9	J2000.00	1.161	180.1	20:25:40.7	0.0	B	Harris	1 x 1	
295858	Bias frame	6:52:11.80	-00:13:24.0	J2000.00	1.160	180.1	20:26:35.3	0.0	B	Harris	1 x 1	
295859	98-671	6:52:11.80	-00:13:23.9	J2000.00	1.159	180.1	20:27:34.0	30.1	B	Harris	1 x 1	
295860	98-671	6:52:11.79	-00:13:23.9	J2000.00	1.158	180.1	20:29:04.7	20.1	I	INT-WFC	1 x 1	
295861	100-280	8:53:35.40	-00:36:42.0	J2000.00	1.479	180.1	20:31:13.2	20.1	I	INT-WFC	1 x 1	
295862	100-280	8:53:35.39	-00:36:42.0	J2000.00	1.470	180.1	20:32:47.5	30.1	B	Harris	1 x 1	
295863	101-421	9:57:16.10	-00:17:19.1	J2000.00	1.949	180.1	20:34:42.3	30.1	B	Harris	1 x 1	
295864	101-421	9:57:16.10	-00:17:19.0	J2000.00	1.928	180.1	20:36:35.4	20.1	I	INT-WFC	1 x 1	
295865	MGC009	10:15:59.98	+00:00:00.3	J2000.00	1.982	180.1	20:41:55.5	999.0	I	INT-WFC	1 x 1	
295866	MGC010	10:17:59.99	-00:00:00.0	J2000.00	1.791	180.1	21:01:38.0	999.5	I	INT-WFC	1 x 1	
295867	MGC011	10:20:00.00	-00:00:00.2	J2000.00	1.644	180.1	21:21:04.8	999.4	I	INT-WFC	1 x 1	
295868	MGC012	10:22:00.00	-00:00:00.0	J2000.00	1.525	180.1	21:40:55.6	999.5	I	INT-WFC	1 x 1	
295869	MGC013	10:24:00.00	-00:00:00.1	J2000.00	1.431	180.1	22:00:44.6	999.5	I	INT-WFC	1 x 1	
295870	MGC014	10:26:00.00	+00:00:00.1	J2000.00	1.355	180.1	22:20:35.7	999.5	I	INT-WFC	1 x 1	
295871	MGC015	10:28:00.01	+00:00:00.2	J2000.00	1.296	180.1	22:40:04.1	999.7	I	INT-WFC	1 x 1	
295872	UMA18	11:59:38.30	+48:29:18.3	J2000.00	1.312	180.1	23:01:44.1	749.6	B	Harris	1 x 1	
295873	UMB13	12:09:58.70	+48:52:28.9	J2000.00	1.294	180.1	23:18:23.0	749.5	B	Harris	1 x 1	
295874	UMB16	12:20:28.10	+49:12:08.9	J2000.00	1.280	180.1	23:34:19.1	749.7	B	Harris	1 x 1	
295875	VIRGO321	12:52:32.20	+12:24:00.0	J2000.00	1.463	180.1	23:50:09.2	749.7	B	Harris	1 x 1	
295876	VIRGO322	12:54:38.60	+12:23:59.9	J2000.00	1.392	180.1	00:05:22.3	749.6	B	Harris	1 x 1	
295877	VIRGO323	12:56:44.90	+12:24:00.3	J2000.00	1.331	180.1	00:20:26.9	749.6	B	Harris	1 x 1	
295878	VIRGO324	12:58:51.40	+12:24:00.2	J2000.00	1.279	180.1	00:35:29.5	749.7	B	Harris	1 x 1	
295879	VIRGO331	12:31:28.98	+12:44:00.0	J2000.00	1.147	180.1	00:50:39.2	999.4	I	INT-WFC	1 x 1	
295880	VIRGO330	12:29:21.89	+12:43:59.8	J2000.00	1.105	180.1	01:10:45.8	999.5	I	INT-WFC	1 x 1	
295881	VIRGO310	12:29:21.99	+12:23:59.9	J2000.00	1.080	180.1	01:30:05.2	999.5	I	INT-WFC	1 x 1	
295882	101-330	9:56:20.60	-00:27:22.9	J2000.00	1.269	180.1	01:51:06.1	20.1	I	INT-WFC	1 x 1	
295883	101-330	9:56:20.60	-00:27:23.0	J2000.00	1.273	180.1	01:52:31.8	30.1	B	Harris	1 x 1	
295884	104-367	12:43:58.49	-00:33:35.1	J2000.00	1.190	180.1	01:54:43.2	30.1	B	Harris	1 x 1	
295885	104-367	12:43:58.49	-00:33:35.0	J2000.00	1.188	180.1	01:56:10.4	20.1	I	INT-WFC	1 x 1	
295886	107-592	15:38:50.29	-00:17:08.8	J2000.00	2.180	180.1	01:58:14.3	20.1	I	INT-WFC	1 x 1	
295887	107-592	15:38:50.29	-00:17:09.0	J2000.00	2.159	180.1	01:59:32.2	30.1	B	Harris	1 x 1	
295888	VIRGO290	12:29:22.10	+12:04:00.2	J2000.00	1.050	180.1	02:09:29.4	999.5	I	INT-WFC	1 x 1	
295889	VIRGO387	12:22:58.59	+13:44:00.1	J2000.00	1.036	180.1	02:29:34.7	999.4	I	INT-WFC	1 x 1	
295890	VIRGO388	12:25:06.20	+13:43:59.8	J2000.00	1.039	180.1	02:48:44.8	999.0	I	INT-WFC	1 x 1	
295891	VIRGO407	12:22:57.90	+14:04:00.1	J2000.00	1.048	180.1	03:07:50.8	999.5	I	INT-WFC	1 x 1	
295892	VIRGO408	12:25:05.70	+14:04:00.0	J2000.00	1.063	180.1	03:27:01.2	999.5	I	INT-WFC	1 x 1	
295894	VIRGO427	12:22:57.20	+14:24:00.0	J2000.00	1.090	180.1	03:47:19.3	999.4	I	INT-WFC	1 x 1	
295895	VIRGO428	12:25:05.20	+14:24:00.1	J2000.00	1.120	180.1	04:07:12.5	999.1	I	INT-WFC	1 x 1	
295896	VIRGO447	12:22:56.50	+14:43:59.8	J2000.00	1.165	180.1	04:26:30.5	999.4	I	INT-WFC	1 x 1	
295897	VIRGO448	12:25:04.70	+14:43:59.9	J2000.00	1.245	180.1	04:55:40.2	999.4	I	INT-WFC	1 x 1	
295898	VIRGO467	12:22:55.79	+15:03:59.9	J2000.00	1.325	180.1	05:14:54.8	999.4	I	INT-WFC	1 x 1	
295899	VIRGO468	12:25:04.20	+15:04:00.0	J2000.00	1.407	180.1	05:34:10.4	999.5	I	INT-WFC	1 x 1	
295900	107-592	15:38:50.30	-00:17:09.0	J2000.00	1.144	180.1	05:57:10.7	20.1	I	INT-WFC	1 x 1	
295902	107-592	15:38:50.30	-00:17:08.9	J2000.00	1.144	180.1	05:58:60.9	30.1	B	Harris	1 x 1	
295903	104-367	12:43:58.50	-00:33:35.0	J2000.00	1.661	180.1	06:01:20.5	30.1	B	Harris	1 x 1	
295904	104-367	12:43:58.49	-00:33:35.0	J2000.00	1.674	180.1	06:03:07.2	20.1	I	INT-WFC	1 x 1	
295905	104-367	12:43:58.49	-00:33:34.9	J2000.00	1.636	180.1	06:04:36.5	30.1	B	Harris	1 x 1	This is rubbish
295906	110-361	18:42:45.00	+00:08:05.0	J2000.00	1.529	180.1	06:07:04.7	30.1	B	Harris	1 x 1	
295907	110-361	18:42:44.99	+00:08:05.0	J2000.00	1.521	180.1	06:08:39.0	20.1	I	INT-WFC	1 x 1	

295908	Flat field	17:00:00.00	+41:00:00.0	J2000.00	1.026	180.1	06:51:07.5	199.9	I	INT-WFC	1	1 x 1
295909	Flat field	17:00:00.00	+41:00:09.6	J2000.00	1.025	180.1	06:55:49.7	100.0	I	INT-WFC	1	1 x 1
295910	Flat field	17:00:00.85	+41:00:09.9	J2000.00	1.024	180.1	06:58:50.7	40.1	I	INT-WFC	1	1 x 1
295911	Flat field	17:00:00.88	+41:00:10.0	J2000.00	1.024	180.1	07:00:51.7	40.1	B	Harris	1	1 x 1
295912	Flat field	17:00:00.88	+40:59:59.9	J2000.00	1.024	180.1	07:02:40.9	14.5	B	Harris	1	1 x 1
295913	Flat field	16:59:59.99	+40:59:59.9	J2000.00	1.024	180.1	07:04:12.7	9.5	B	Harris	1	1 x 1