INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:            INT
DATE:                 20020307
TAPE NR:
OBSERVER:             J. Davies and S. Roberts
PROGRAMME:            Virgo cluster
PATT/CAT REF.:        WFS2
TELESCOPE OPERATOR:   none
SUPPORT ASTRONOMER:   none

TELESCOPE FOCUS:      44.10 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) 0
                      (2nd half) 0
DUST (0-2):           (1st half) 0
                      (2nd half) 0
SEEING (arcsec):      (1st half) 2.0
                      (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	5.7	3	17.1	17.6	5	768.0	6.0	7.1	8.0	2	6
21:00	5.4	3	22.8	24.4	7	768.6	5.7	6.9	7.4	2	6
22:00	5.8	7	23.7	24.3	12	768.7	6.1	6.7	7.1	6	8
23:00	6.2	6	27.6	30.0	2	768.9	6.6	6.6	7.1	5	8
00:00	5.0	9	31.6	32.5	5	768.7	5.4	6.3	7.1	8	10
01:00	3.6	11	24.2	27.2	351	768.1	3.9	5.5	6.7	10	12
02:00	3.9	11	29.4	31.9	5	767.8	3.8	5.0	6.4	11	12
03:00	2.4	20	31.3	33.3	24	767.3	2.4	3.5	6.3	26	21
04:00	1.8	15	38.2	48.2	9	766.9	2.2	3.8	5.5	14	17
05:00	2.0	38	30.1	39.9	348	766.9	1.9	3.0	5.2	41	36
06:00	1.9	50	35.1	37.5	6	766.9	2.2	3.5	4.7	48	40
07:00	1.9	54	37.2	40.8	5	767.4	2.2	3.8	5.4	52	45

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SUNSET(UT)              19:22
EVENING TWILIGHT(UT)    20:33
MORNING TWILIGHT(UT)    06:11
SUNRISE(UT)             07:23
MOON'S QUARTER (1-4)    4
DISK % OF ILLUM.        31
DARK TIME               09:38
TWILIGHT TIME           02:23
MOONRISE(UT)            03:52
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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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys	Channel	Binning	Comments

295914	Bias	0:00:00.00	+00:00:00.0	A		4.541	180.1	14:25:04.8	0.0	B	Kitt Peak		1 x 1
295915	Bias	23:00:00.00	+40:00:00.0	A		1.062	180.1	14:30:02.6	0.0	B	Kitt Peak		1 x 1
295916	Bias frame	0:00:00.00	+00:00:00.0	A		1.000	180.1	19:18:57.5	0.0	B	Harris		1 x 1
295917	Bias frame	0:00:00.00	+00:00:00.0	A		1.000	180.1	19:26:56.9	0.0	B	Harris		1 x 1
295918	Flat field	2:57:59.99	-00:06:00.0	J2000.00		1.426	180.1	19:35:38.7	15.1	B	Harris		1 x 1 Saturated !!!!
295919	Flat field	2:58:00.00	-00:05:59.9	J2000.00		1.470	180.1	19:44:28.7	7.1	B	Harris		1 x 1
295920	Flat field	2:58:00.00	-00:05:50.0	J2000.00		1.479	180.1	19:46:08.7	12.1	B	Harris		1 x 1
295921	Flat field	2:58:00.00	-00:05:49.9	J2000.00		1.488	180.1	19:47:51.5	15.6	B	Harris		1 x 1
295922	Flat field	2:58:00.00	-00:05:50.0	J2000.00		1.499	180.1	19:49:46.3	25.1	I	INT-WFC		1 x 1
295923	Flat field	2:58:00.00	-00:05:50.0	J2000.00		1.512	180.1	19:51:51.3	45.1	I	INT-WFC		1 x 1
295924	Flat field	2:57:59.99	-00:06:00.0	J2000.00		1.528	180.1	19:54:21.4	75.0	I	INT-WFC		1 x 1
295925	Focus run	6:52:11.80	-00:15:53.9	J2000.00		1.158	180.1	20:27:37.1	10.1	B	Harris		1 x 1
295926	98-671	6:52:11.79	-00:18:24.0	J2000.00		1.151	180.1	20:36:53.6	30.1	B	Harris		1 x 1
295927	98-671	6:52:11.79	-00:18:24.0	J2000.00		1.149	180.1	20:39:29.2	19.5	I	INT-WFC		1 x 1
295928	100-280	8:53:35.40	-00:36:42.0	J2000.00		1.406	180.1	20:42:31.1	20.1	I	INT-WFC		1 x 1
295929	100-280	8:53:35.40	-00:36:41.9	J2000.00		1.399	180.1	20:43:58.5	29.6	B	Harris		1 x 1
295930	101-421	9:57:16.10	-00:17:19.1	J2000.00		1.789	180.1	20:46:00.9	30.1	B	Harris		1 x 1
295931	101-421	9:57:16.09	-00:17:19.0	J2000.00		1.774	180.1	20:47:38.2	20.1	I	INT-WFC		1 x 1
295932	MGC016	10:30:00.00	-00:00:00.0	J2000.00		1.916	180.1	20:57:35.1	999.5	I	INT-WFC		1 x 1
295933	MGC017	10:31:59.99	+00:00:00.0	J2000.00		1.710	180.1	21:20:43.9	999.5	I	INT-WFC		1 x 1
295934	MGC018	10:33:59.99	-00:00:00.1	J2000.00		1.578	180.1	21:40:36.4	999.4	I	INT-WFC		1 x 1
295935	MGC019	10:35:59.99	+00:00:00.1	J2000.00		1.471	180.1	22:00:41.6	999.6	I	INT-WFC		1 x 1
295936	MGC020	10:38:00.00	-00:00:00.0	J2000.00		1.387	180.1	22:20:44.3	999.5	I	INT-WFC		1 x 1
295937	MGC021	10:39:59.99	-00:00:00.0	J2000.00		1.319	180.1	22:40:41.2	998.8	I	INT-WFC		1 x 1
295938	MGC021	10:39:59.99	+00:00:00.0	J2000.00		1.254	180.1	23:05:01.4	749.1	B	Harris		1 x 1 mistake!
295939	UMB08	11:51:08.80	+48:07:22.0	J2000.00		1.223	180.1	23:21:08.1	749.6	B	Harris		1 x 1
295940	UMB05	11:41:07.60	+47:37:59.8	J2000.00		1.166	180.1	23:37:18.9	749.6	B	Harris		1 x 1
295941	VIRGO252	12:33:35.30	+11:23:59.8	J2000.00		1.341	180.1	23:53:35.3	749.5	B	Harris		1 x 1
295942	VIRGO252	12:33:35.30	+11:23:59.9	J2000.00		1.284	180.1	00:07:42.9	749.2	B	Harris		1 x 1
295943	VIRGO252	12:33:35.29	+11:23:59.9	J2000.00		1.235	180.1	00:21:35.8	749.6	B	Harris		1 x 1
295944	VIRGO252	12:33:35.29	+11:23:59.9	J2000.00		1.194	180.1	00:35:37.0	749.5	B	Harris		1 x 1
295945	VIRGO252	12:33:35.30	+11:24:00.0	J2000.00		1.160	180.1	00:49:36.6	749.6	B	Harris		1 x 1
295946	VIRGO252	12:33:35.30	+11:23:59.9	J2000.00		1.130	180.1	01:04:00.8	749.7	B	Harris		1 x 1
295947	VIRGO252	12:33:35.30	+11:24:00.0	J2000.00		1.106	180.1	01:18:08.7	748.1	B	Harris		1 x 1
295948	101-330	9:56:20.60	-00:27:23.0	J2000.00		1.238	180.1	01:34:35.1	30.1	B	Harris		1 x 1
295949	101-330	9:56:20.60	-00:27:22.9	J2000.00		1.242	180.1	01:36:24.3	19.5	I	INT-WFC		1 x 1
295950	104-367	12:43:58.50	-00:33:34.9	J2000.00		1.210	180.1	01:38:44.4	20.1	I	INT-WFC		1 x 1
295951	104-367	12:43:58.49	-00:33:35.0	J2000.00		1.207	180.1	01:40:14.5	30.0	B	Harris		1 x 1
295952	107-592	15:38:50.30	-00:17:09.1	J2000.00		2.378	180.1	01:42:38.8	30.1	B	Harris		1 x 1
295953	107-592	15:38:50.29	-00:17:08.9	J2000.00		2.350	180.1	01:44:13.8	20.1	I	INT-WFC		1 x 1
295954	VIRGO252	12:33:35.30	+11:24:00.0	J2000.00		1.070	180.1	01:46:56.9	749.7	B	Harris		1 x 1
295955	VIRGO252	12:33:35.30	+11:24:00.0	J2000.00		1.060	180.1	02:00:31.4	749.6	B	Harris		1 x 1
295956	VIRGO252	12:33:35.29	+11:24:00.0	J2000.00		1.052	180.1	02:14:03.1	749.6	B	Harris		1 x 1
295957	VIRGO251	12:31:28.80	+11:24:00.0	J2000.00		1.048	180.1	02:29:01.4	749.6	B	Harris		1 x 1
295958	VIRGO251	12:31:28.80	+11:24:00.0	J2000.00		1.048	180.1	02:42:30.9	749.6	B	Harris		1 x 1
295959	VIRGO251	12:31:28.80	+11:23:59.9	J2000.00		1.052	180.1	02:56:20.4	749.6	B	Harris		1 x 1
295960	VIRGO251	12:31:28.80	+11:23:59.9	J2000.00		1.059	180.1	03:09:52.6	749.7	B	Harris		1 x 1
295961	VIRGO251	12:31:28.80	+11:24:00.0	J2000.00		1.070	180.1	03:23:22.6	749.6	B	Harris		1 x 1
295962	VIRGO487	12:22:55.00	+15:24:00.0	J2000.00		1.079	180.1	03:39:47.4	999.4	I	INT-WFC		1 x 1
295963	VIRGO488	12:25:03.59	+15:24:00.2	J2000.00		1.107	180.1	03:59:05.3	999.6	I	INT-WFC		1 x 1
295964	VIRGO507	12:22:54.19	+15:44:00.1	J2000.00		1.150	180.1	04:18:44.5	999.6	I	INT-WFC		1 x 1
295965	VIRGO508	12:25:03.10	+15:43:59.7	J2000.00		1.194	180.1	04:37:44.5	999.5	I	INT-WFC		1 x 1
295966	VIRGO527	12:22:53.49	+16:03:59.7	J2000.00		1.261	180.1	04:57:03.8	999.5	I	INT-WFC		1 x 1
295967	VIRGO528	12:25:02.50	+16:04:00.0	J2000.00		1.336	180.1	05:17:43.5	999.1	I	INT-WFC		1 x 1
295968	VIRGO568	12:25:01.30	+16:44:00.0	J2000.00		1.432	180.1	05:38:03.1	999.5	I	INT-WFC		1 x 1
295969	VIRGO587	12:22:50.99	+17:04:00.0	J2000.00		1.608	180.1	06:03:15.5	999.4	I	INT-WFC	1	1 x 1
295970	107-592	15:38:50.30	-00:17:08.9	J2000.00		1.157	180.1	06:21:58.0	20.1	I	INT-WFC	1	1 x 1
295971	107-592	15:38:50.30	-00:17:09.0	J2000.00		1.158	180.1	06:23:17.5	29.6	B	Harris	1	1 x 1
295972	104-367	12:43:58.49	-00:33:34.9	J2000.00		1.923	180.1	06:25:31.7	30.1	B	Harris	1	1 x 1
295973	104-367	12:43:58.49	-00:33:34.9	J2000.00		1.939	180.1	06:27:01.7	20.1	I	INT-WFC	1	1 x 1
295974	110-361	18:42:45.00	+00:08:05.0	J2000.00		1.395	180.1	06:29:41.7	20.1	I	INT-WFC	1	1 x 1
295975	110-361	18:42:45.00	+00:08:04.9	J2000.00		1.388	180.1	06:31:09.1	30.1	B	Harris	1	1 x 1

295976	WFSBLANK1	17:00:00.00	+40:59:59.9	J2000.00	1.026	180.1	06:46:06.8	180.0	I	INT-WFC	1	1 x 1
295977	WFSBLANK1	17:00:00.00	+41:00:09.9	J2000.00	1.025	180.1	06:50:41.4	90.0	I	INT-WFC	1	1 x 1
295978	WFSBLANK1	17:00:00.87	+41:00:10.2	J2000.00	1.024	180.1	06:53:53.3	45.1	I	INT-WFC	1	1 x 1
295979	WFSBLANK1	17:00:00.88	+41:00:09.7	J2000.00	1.024	180.1	06:56:30.1	45.1	B	Harris	1	1 x 1
295980	WFSBLANK1	16:59:59.99	+41:00:09.9	J2000.00	1.024	180.1	06:58:52.1	29.5	B	Harris	1	1 x 1
295981	WFSBLANK1	16:59:59.99	+40:59:59.8	J2000.00	1.024	180.1	07:01:03.9	15.1	B	Harris	1	1 x 1