INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA) generated 2002 06 18 07:45

TELESCOPE	INT
DATE	20020617
OBSERVER/S	P Jones, W Yuan
PROGRAMME	XID XMM Follow-up
PROPOSAL REF	WFS3
TELESCOPE OPERATOR	none
SUPPORT ASTRONOMER	none
TEL STATION / FOCUS	Prime /
INSTRUMENT/S	WFC
SUNSET (UT)	20:19
EVENING TWILIGHT (UT)	21:46
MORNING TWILIGHT (UT)	04:39
SUNRISE (UT)	06:05
%ILLUM. LUNAR DISK	50
DARK TIME (HRS)	06:53
TWILIGHT TIME (HRS)	02:53
MOONRISE (UT)	No moonrise within sunset-sunrise
MOONSET (UT)	01:45

UT	AirT degC	Hum %	Wspd km/s	Gust km/s	Wdir deg	Press mbar	LocT degC	int.T degC	Mirr degC	LocRH %	int.RH %
21:00	13.5	41	4.8	5.3	193	773.5	13.5	17.4	16.3	41	33
22:00	13.9	10	9.7	10.6	231	773.7	13.9	15.3	16.1	10	10
23:00	13.8	9	13.9	14.2	219	774.2	13.8	15.1	15.7	9	9
00:00	14.5	8	12.1	14.3	201	774.3	14.5	15.0	15.3	8	8
01:00	13.1	14	14.4	15.9	177	774.4	13.1	14.3	15.5	14	12
02:00	13.0	11	13.6	14.0	238	774.2	13.0	14.3	15.0	11	10
03:00	13.9	8	19.7	20.1	236	774.0	13.9	14.1	14.9	8	8
04:00	14.1	8	21.5	22.5	228	773.7	14.1	14.5	14.9	8	8
05:00	13.4	9	15.8	17.3	246	773.7	13.4	13.9	15.0	9	10
06:00	13.2	10	13.4	14.4	235	774.0	13.2	13.6	14.6	10	9

TIME LOST weather	00:00
TIME LOST Technical	01:45
TIME LOST Other	00:00

WEATHER CONDITIONS (eg transparancy, dust, %cloud cover, seeing):
humidity~10%, wind speed ~ 10km/h and less, seeing ~0.75 - 1.1

COMMENTS (causes of time lost, setup information eg CCD windows):
Time lost (30minutes) at beginning of night due to TCS not running when we arrived.
We also lost time (1.15 hours) at end of night again due to the TCS disconnecting and then problems with zerosetting of the telescope.
As a result of the outlined problems standard stars only completed at start of night.

Run	Object	RA	Dec	Equinox	UT	Airm	Instr	Texp sec	Sky PA	Filters etc.	Slit	Grat	CenwA	Comments
306090	Bias frame				13:27		WFC	0.0		Halpha				
306091	Bias	0:00:00.00	+00:00:00.0	A	20:08	1.522	WFC	0.0	180	Halpha				IGNORE THESE - SEE AM
306092	Bias	0:00:00.00	+00:00:00.0	A	20:08	1.522	WFC	0.0	180	Halpha				humidity ~ 10%, wind speed ~ 10km/h
306093	Bias	0:00:00.00	+00:00:00.0	A	20:09	1.522	WFC	0.0	180	Halpha				
306094	Bias	0:00:00.00	+00:00:00.0	A	20:10	1.522	WFC	0.0	180	Halpha				
306095	Bias	0:00:00.00	+00:00:00.0	A	20:11	1.522	WFC	0.0	180	Halpha				
306096	skyflat_Ha	15:02:00.00	+29:55:00.0	J2000.00	20:23	1.128	WFC	3.1	180	Halpha				36000 cts mean - too high?
306097	skyflat_Ha	15:02:00.77	+29:54:49.9	J2000.00	20:24	1.125	WFC	1.6	180	Halpha				22000 cts mean
306098	skyflat_Ha	15:02:00.76	+29:55:10.0	J2000.00	20:25	1.123	WFC	1.6	180	Halpha				17000 cts mean
306099	skyflat_Ha	15:02:00.76	+29:54:59.9	J2000.00	20:26	1.120	WFC	1.0	180	Halpha				9000 cts mean - too low
306100	skyflat_U	15:02:00.77	+29:55:00.0	J2000.00	20:28	1.117	WFC	1.0	180	U				13000 cts mean
306101	skyflat_U	15:02:00.77	+29:55:09.7	J2000.00	20:29	1.114	WFC	2.0	180	U				25000 cts mean

306102	skyflat_U	15:02:00.76	+29:54:50.0	J2000.00	20:30	1.112	WFC	4.0	180	U	30000 cts mean
306103	skyflat_U	15:02:00.76	+29:55:00.0	J2000.00	20:32	1.109	WFC	5.5	180	U	32000 cts mean
306104	skyflat_g	15:02:00.76	+29:55:00.0	J2000.00	20:33	1.107	WFC	0.8	180	g	26000 cts mean - too low
306105	skyflat_U	15:02:00.77	+29:55:00.0	J2000.00	20:34	1.104	WFC	1.0	180	g	g band; Ignore - no offset.
306106	skyflat_g	15:02:00.76	+29:55:10.0	J2000.00	20:35	1.102	WFC	1.6	180	g	27000 cts mean
306107	skyflat_g	15:01:59.22	+29:55:00.0	J2000.00	20:36	1.099	WFC	2.1	180	g	27000 cts mean
306108	skyflat_r	15:01:59.99	+29:55:00.0	J2000.00	20:38	1.097	WFC	4.1	180	r	23000 cts mean
306109	skyflat_r	15:01:59.22	+29:55:00.0	J2000.00	20:39	1.095	WFC	6.1	180	r	25000 cts mean
306110	skyflat_r	15:01:59.23	+29:55:10.3	J2000.00	20:40	1.093	WFC	10.1	180	r	30000 cts mean
306111	skyflat_i	15:02:00.00	+29:54:59.9	J2000.00	20:41	1.090	WFC	10.1	180	i	27000 cts mean
306112	skyflat_i	0:00:00.00	+00:00:00.0	J2000.00	20:43	1.088	WFC	14.1	180	i	27000 cts mean - telescope not moving???
306113	skyflat_i	0:00:00.00	+00:00:00.0	J2000.00	20:44	1.088	WFC	20.1	180	i	28000 cts mean - telescope not moving??
306114	skyflat_z	0:00:00.00	+00:00:00.0	J2000.00	20:45	1.088	WFC	100.0	180	z	28000 cts mean - telescope not moving??
306116	Flat field	15:01:59.99	+29:54:59.9	J2000.00	20:50	1.072	WFC	235.1	180	z	14000 cts mean
306117	Flat field	15:01:59.99	+29:55:10.0	J2000.00	20:55	1.061	WFC	555.3	180	z	11000 cts mean - too low
306118	Focus run	12:42:20.50	-00:37:58.8	J2000.00	21:20	1.202	WFC	8.1	180	i	
306119	sa104-334	12:42:20.49	-00:40:28.9	J2000.00	21:26	1.215	WFC	25.1	180	i	std=21000cts mean
306120	sa104-334	12:42:20.49	-00:40:28.9	J2000.00	21:27	1.218	WFC	25.1	180	r	std=23000cts mean
306121	sa104-334	12:42:20.49	-00:40:28.8	J2000.00	21:29	1.222	WFC	28.2	180	g	std=28000cts mean
306122	sa104-334	12:42:20.50	-00:40:29.0	J2000.00	21:31	1.230	WFC	300.0	180	U	std=16000cts mean
306123	sa104-334	12:42:20.50	-00:40:28.9	J2000.00	21:38	1.247	WFC	399.9	180	Halpha	std=27000cts mean
306124	sa104-334	12:42:20.49	-00:40:29.0	J2000.00	21:46	1.260	WFC	60.1	180	z	std=18000cts mean
306125	Mkn421	11:04:39.72	+38:14:32.0	J2000.00	21:51	1.390	WFC	1221.9	180	Halpha	seeing=0.8 AM=1.30
306126	MS1229	12:31:55.00	+64:16:20.9	J2000.00	22:14	1.378	WFC	2861.7	180	z	seeing=0.8 AM=1.30
306127	NGC5846	15:06:39.25	+01:38:20.7	J2000.00	23:05	1.153	WFC	2398.7	180	z	seeing=0.75 AM=1.12
306128	UZLib	15:32:33.10	-08:30:04.9	J2000.00	23:49	1.323	WFC	2398.2	180	z	seeing=0.9 AM=1.30
306129	Groth	14:17:28.38	+52:26:00.2	J2000.00	00:31	1.339	WFC	2399.0	180	z	seeing=0.8 AM=1.30
306130	WR110	18:08:07.55	-19:21:56.9	J2000.00	01:22	1.500	WFC	2398.7	180	z	seeing=0.9 AM=1.45
306131	CSO755	15:26:10.00	+51:38:49.5	J2000.00	02:07	1.388	WFC	1199.3	180	z	seeing=0.85 AM=1.4
306132	RXJ1940	19:40:21.64	-10:23:25.1	J2000.00	02:33	1.297	WFC	1199.4	180	Halpha	seeing=1.0 AM=1.3
306133	RXJ1940	19:40:21.63	-10:23:25.0	J2000.00	02:55	1.289	WFC	1199.4	180	z	seeing=0.85 AM=1.29
306134	Mrk896	20:46:30.00	-02:46:45.9	J2000.00	03:18	1.196	WFC	1199.4	180	z	seeing=1.05 AM=1.20
306135	MS2053	20:56:31.79	-04:35:51.0	J2000.00	03:41	1.209	WFC	1199.2	180	U	seeing=1.3 AM=1.20
306137	Flat field	22:58:00.00	+00:05:00.0	J2000.00	05:34	1.165	WFC	278.2	180	z	36000 cts mean
306138	Flat field	22:57:59.99	+00:05:00.0	J2000.00	05:39	1.161	WFC	78.9	180	z	27000 cts mean
306139	Flat field	22:58:00.00	+00:04:59.9	J2000.00	05:42	1.158	WFC	43.9	180	z	25000 cts mean
306140	Flat field	22:58:00.66	+00:04:50.0	J2000.00	05:44	1.157	WFC	29.6	180	z	25000 cts mean
306141	Flat field	22:58:00.66	+00:05:10.0	J2000.00	05:46	1.155	WFC	5.4	180	r	26000 cts mean
306142	Flat field	22:58:00.66	+00:04:50.0	J2000.00	05:47	1.154	WFC	4.1	180	r	28000 cts mean
306143	Flat field	22:58:00.00	+00:05:00.0	J2000.00	05:49	1.153	WFC	3.6	180	r	32000 cts mean
306144	skyflat_g	22:57:59.99	+00:05:00.0	J2000.00	05:50	1.152	WFC	1.6	180	g	50000 cts mean - too high?
306145	skyflat_g	22:58:00.00	+00:05:00.0	J2000.00	05:52	1.151	WFC	1.0	180	g	35000 cts mean - too high?
306146	skyflat_g	22:58:00.00	+00:05:09.9	J2000.00	05:53	1.150	WFC	0.7	180	g	36000 cts mean - too high?
306147	skyflat_g	22:57:59.99	+00:04:50.1	J2000.00	05:54	1.149	WFC	0.5	180	g	32000 cts mean
306148	skyflat_U	22:58:00.00	+00:04:50.0	J2000.00	05:56	1.148	WFC	2.1	180	U	23000 cts mean
306149	skyflat_U	22:58:00.00	+00:04:49.9	J2000.00	05:57	1.147	WFC	1.3	180	U	18000 cts mean
306150	skyflat_U	22:58:00.66	+00:04:50.0	J2000.00	05:58	1.147	WFC	0.8	180	U	16000 cts mean
306151	skyflat_Ha	22:58:00.66	+00:04:50.0	J2000.00	06:00	1.146	WFC	2.1	180	Halpha	24000 cts mean
306152	skyflat_Ha	22:57:59.33	+00:04:50.0	J2000.00	06:01	1.145	WFC	1.0	180	Halpha	17000 cts mean
306153	skyflat_Ha	22:57:59.33	+00:05:10.0	J2000.00	06:03	1.144	WFC	0.8	180	Halpha	17000 cts mean
306154	skyflat_Ha	22:57:59.33	+00:05:10.0	J2000.00	06:04	1.144	WFC	0.5	180	Halpha	14000 cts mean
306155	Bias	0:00:00.00	+00:00:00.0	J2000.00	06:13	4.654	WFC	0.0	180	Halpha	
306156	Bias	0:00:00.00	+00:00:00.0	J2000.00	06:14	4.654	WFC	0.0	180	Halpha	
306157	Bias	0:00:00.00	+00:00:00.0	J2000.00	06:14	4.654	WFC	0.0	180	Halpha	
306158	Bias	0:00:00.00	+00:00:00.0	J2000.00	06:15	4.654	WFC	0.0	180	Halpha	
306159	Bias	0:00:00.00	+00:00:00.0	J2000.00	06:16	4.654	WFC	0.0	180	Halpha	