INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA) generated 2002 06 13 07:10

TELESCOPE	INT
DATE	20020612
OBSERVER/S	J Tedds, P Jones, W Yuan
PROGRAMME	XID XMM Follow-up
PROPOSAL REF	WFS3
TELESCOPE OPERATOR	none
SUPPORT ASTRONOMER	none
TEL STATION / FOCUS	Prime / 43.95
INSTRUMENT/S	WFC
SUNSET (UT)	20:18
EVENING TWILIGHT (UT)	21:44
MORNING TWILIGHT (UT)	04:39
SUNRISE (UT)	06:05
%ILLUM. LUNAR DISK	5
DARK TIME (HRS)	06:55
TWILIGHT TIME (HRS)	02:52
MOONRISE (UT)	No moonrise within sunset-sunrise
MOONSET (UT)	22:00

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	12.7	27	9.8	11.9	272	772.6	12.7	17.9	17.3	27	23
22:00	10.9	33	10.0	11.0	301	772.9	10.9	14.6	16.9	33	25
23:00	11.5	26	11.7	12.3	278	773.3	11.5	13.5	16.2	26	22
00:00	10.4	34	13.0	14.4	333	773.5	10.4	12.9	14.8	34	26
01:00	10.6	13	17.3	18.2	303	773.5	10.6	12.6	14.7	13	17
02:00	10.4	14	20.1	21.8	300	773.1	10.4	12.4	15.1	14	12
03:00	10.4	15	25.3	26.1	319	772.4	10.4	12.1	14.7	15	13
04:00	10.1	23	28.5	29.0	324	771.9	10.1	12.0	14.2	23	16
05:00	9.9	23	28.5	29.6	342	771.8	9.9	11.7	14.6	23	19
06:00	10.7	19	16.2	17.8	350	772.0	10.7	11.9	14.5	19	19

TIME LOST weather	00:00
TIME LOST Technical	00:15
TIME LOST Other	00:00

WEATHER CONDITIONS (eg transparancy, dust, %cloud cover, seeing):
100% clear, seeing 1-1.5"

COMMENTS (causes of time lost, setup information eg CCD windows):
time lost at start of night for PF rotator error - pin missing? Duty Engineer fixed promptly.

Run	Object	RA	Dec	Equinox	UT	Airm	Instr	Texp sec	Sky PA	Filters etc.	Slit	Grat	CenwA	Comments
305656	Bias frame	4:00:00.00	+44:59:59.9	A	13:14	1.090	WFC	0.0	180	r				
305657	Bias	4:00:00.00	+45:00:00.0	A	13:16	1.092	WFC	0.0	180	r				
305658	7	4:00:00.00	+44:59:59.9	A	13:18	1.095	WFC	0.0	180	r				
305659	5	3:59:59.99	+45:00:00.0	A	13:21	1.098	WFC	0.0	180	r				
305660	5	4:00:00.00	+45:00:00.0	A	13:23	1.102	WFC	0.0	180	r				
305661	5	4:00:00.00	+44:59:59.9	A	13:26	1.106	WFC	0.0	180	Halpha				
305662	5	4:00:00.00	+44:59:59.9	A	13:28	1.108	WFC	0.0	180	r				
305663	5	3:59:59.99	+45:00:00.0	A	13:30	1.111	WFC	0.0	180	r				
305664	20	4:00:00.00	+45:00:00.0	A	13:31	1.113	WFC	0.0	180	r				
305665	8	4:00:00.00	+45:00:00.0	A	13:36	1.119	WFC	0.0	180	i				
305666	15	4:00:00.00	+45:00:00.0	A	13:41	1.127	WFC	0.0	180	r				
305667	15	0:00:00.00	+00:00:00.0	A	13:49	4.246	WFC	0.0	180	i				

305668	15	0:00:00.00	+00:00:00.0	A	13:57	4.247	WFC	0.0	180	U	
305669	TEST	0:00:00.00	+00:00:00.0	A	13:59	4.247	WFC	60.1	180	U	
305670	TEST	0:00:00.00	+00:00:00.0	A	14:01	4.247	WFC	15.1	180	U	
305671	TEST	0:00:00.00	+00:00:00.0	A	14:03	4.247	WFC	5.1	180	r	
305672	Bias	0:00:00.00	+00:00:00.0	A	19:51	4.384	WFC	0.0	180	Halpha	
305673	Bias	0:00:00.00	+00:00:00.0	A	19:52	4.384	WFC	0.0	180	Halpha	
305674	Bias	0:00:00.00	+00:00:00.0	A	19:53	4.384	WFC	0.0	180	Halpha	
305675	Bias	0:00:00.00	+00:00:00.0	A	19:53	4.384	WFC	0.0	180	Halpha	
305676	Bias	0:00:00.00	+00:00:00.0	A	19:54	4.384	WFC	0.0	180	Halpha	
305677	skyflat_Ha	15:02:00.00	+29:55:00.0	J2000.00	20:32	1.152	WFC	1.0	180	Halpha	low cts - don't use
305678	skyflat_Ha	15:02:00.00	+29:54:59.9	J2000.00	20:33	1.149	WFC	5.1	180	Halpha	
305679	skyflat_Ha	15:02:00.76	+29:54:59.9	J2000.00	20:35	1.146	WFC	10.1	180	Halpha	
305680	skyflat_Ha	15:01:59.22	+29:55:09.9	J2000.00	20:36	1.142	WFC	24.6	180	Halpha	
305681	skyflat_g	15:01:59.22	+29:55:10.0	J2000.00	20:37	1.139	WFC	5.1	180	g	
305682	skyflat_g	15:02:00.00	+29:55:00.0	J2000.00	20:39	1.136	WFC	5.1	180	g	
305683	skyflat_g	15:02:00.00	+29:55:09.8	J2000.00	20:41	1.131	WFC	7.1	180	g	
305684	Flat field	15:02:00.00	+29:55:09.9	J2000.00	20:42	1.127	WFC	19.1	180	r	
305685	Flat field	15:01:59.99	+29:54:59.9	J2000.00	20:44	1.124	WFC	27.4	180	r	
305686	Flat field	15:01:59.23	+29:54:49.9	J2000.00	20:46	1.119	WFC	45.9	180	r	
305687	Flat field	15:01:59.23	+29:54:49.9	J2000.00	20:48	1.115	WFC	81.2	180	i	
305688	Flat field	15:02:00.00	+29:54:59.9	J2000.00	20:50	1.109	WFC	118.9	180	i	
305689	Flat field	15:02:00.76	+29:55:10.0	J2000.00	20:53	1.101	WFC	228.8	180	i	
305690	Focus run	12:42:20.50	-00:37:58.7	J2000.00	21:13	1.167	WFC	7.6	180	i	seeing~1.5, focus=43.95 again
305691	sa104-334	12:42:20.49	-00:40:29.0	J2000.00	21:21	1.179	WFC	80.0	180	Halpha	seeing~1.5, std=4500cts mean
305692	sa104-334	12:42:20.50	-00:40:29.0	J2000.00	21:27	1.188	WFC	180.0	180	Halpha	seeing~1.5, am=1.25, std=7000cts mean
305693	sa104-334	12:42:20.49	-00:40:28.9	J2000.00	21:32	1.193	WFC	100.0	180	g	seeing~1.7, am=1.25, std=SATD mean
305694	sa104-334	12:42:20.50	-00:40:29.0	J2000.00	21:36	1.199	WFC	20.1	180	r	seeing~1.45, am=1.25, std=12000cts mean
305695	sa104-334	12:42:20.50	-00:40:29.0	J2000.00	21:40	1.205	WFC	20.1	180	i	seeing~1.2, am=1.25, std=13500cts mean
305696	Mkn421	11:04:39.73	+38:14:32.0	J2000.00	21:47	1.294	WFC	1199.3	180	Halpha	seeing~1.0, am=1.34, SSS=2000cts mean
305697	DPLeo	11:17:26.51	+17:59:40.8	J2000.00	22:14	1.459	WFC	1199.4	180	i	seeing~1.2, am=1.5
305698	DPLeo	11:17:26.50	+17:59:41.0	J2000.00	22:36	1.570	WFC	599.8	180	r	seeing~1.35, am=1.55
305699	MS1229	12:31:55.01	+64:16:21.0	J2000.00	22:51	1.383	WFC	1199.5	180	i	seeing~1.15, am=1.4
305700	MS1229	12:31:55.01	+64:16:21.1	J2000.00	23:13	1.420	WFC	599.1	180	g	seeing~1.4, am=1.4
305701	GPCom	13:05:54.03	+18:03:02.0	J2000.00	23:27	1.288	WFC	1199.3	180	i	seeing~1.15, am=1.39
305702	GPCom	13:05:54.04	+18:03:02.1	J2000.00	23:49	1.361	WFC	599.8	180	g	seeing~1.4, am=1.41
305703	GPCom	13:05:54.04	+18:03:02.0	J2000.00	00:01	1.423	WFC	599.6	180	r	seeing~1.25, am=1.45
305704	H1413	14:15:56.20	+11:31:43.9	J2000.00	00:16	1.245	WFC	599.0	180	g	seeing~1.35, am=1.26
305705	H1413	14:15:56.19	+11:31:44.1	J2000.00	00:28	1.289	WFC	599.7	180	r	seeing~1.35, am=1.28
305706	IRAS15250	15:27:11.86	+36:00:37.6	J2000.00	00:45	1.082	WFC	1199.4	180	i	seeing~1.2, am=1.1
305707	IRAS15250	15:27:11.86	+36:00:37.6	J2000.00	01:06	1.110	WFC	599.8	180	g	seeing~1.35, am=1.12
305708	IRAS15250	15:27:11.85	+36:00:37.6	J2000.00	01:20	1.138	WFC	599.8	180	r	
305709	sa107-602	15:39:18.80	-00:15:29.9	J2000.00	01:33	1.348	WFC	25.1	180	Halpha	seeing=1.3, am=1.36, std=7000cts mean
305710	sa107-602	15:39:18.80	-00:15:29.9	J2000.00	01:36	1.359	WFC	30.1	180	g	seeing=1.3, am=1.36, std=SATD
305711	sa107-602	15:39:18.80	-00:15:30.0	J2000.00	01:39	1.370	WFC	10.1	180	g	seeing=1.45, am=1.36, std=15000cts mean
305712	sa107-602	15:39:18.80	-00:15:29.9	J2000.00	01:42	1.380	WFC	2.1	180	r	seeing=1.35, am=1.38, std=6500cts mean
305713	sa107-602	15:39:18.79	-00:15:30.2	J2000.00	01:44	1.389	WFC	5.0	180	r	seeing=1.1, am=1.39, std=12500cts mean
305714	sa107-602	15:39:18.79	-00:15:30.0	J2000.00	01:46	1.397	WFC	20.1	180	i	SATD
305715	sa107-602	15:39:18.80	-00:15:29.9	J2000.00	01:48	1.405	WFC	9.1	180	i	seeing=1.05, am=1.42, std=20000cts mean
305716	CL1604	16:04:33.19	+43:06:33.9	J2000.00	01:55	1.159	WFC	1199.1	180	i	seeing=0.95, am=1.19
305717	CL1604	16:04:33.18	+43:06:33.9	J2000.00	02:17	1.198	WFC	599.2	180	g	seeing=1.25, am=1.21
305718	CL1604	16:04:33.19	+43:06:33.9	J2000.00	02:28	1.228	WFC	599.9	180	r	seeing=1.1, am=1.23
305719	nps_pos1	16:54:10.22	+14:20:00.1	J2000.00	02:44	1.206	WFC	1199.3	180	i	seeing=1.05, am=1.23
305720	nps_pos1	16:54:10.22	+14:20:00.0	J2000.00	03:05	1.261	WFC	599.7	180	g	seeing=1.25, am=1.27
305721	nps_pos1	16:54:10.22	+14:19:59.8	J2000.00	03:17	1.305	WFC	600.0	180	r	seeing=1.15, am=1.3
305722	PB5062	22:05:19.80	-01:53:17.9	J2000.00	03:35	1.388	WFC	599.6	180	g	seeing=1.45, am=1.4
305723	NGC7010	21:04:50.24	-12:18:17.9	J2000.00	03:48	1.366	WFC	1199.3	180	i	seeing=1.35, am=1.38
305724	NGC7010	21:04:50.24	-12:18:17.9	J2000.00	04:10	1.344	WFC	599.7	180	g	seeing=1.7, am=1.32 - to repeat
305725	LBQS2212-1759	22:15:42.17	-17:42:05.7	J2000.00	04:27	1.580	WFC	1199.5	180	i	seeing=1.3, am=1.58
305726	sa113-163	21:42:35.49	+00:16:46.1	J2000.00	04:51	1.152	WFC	40.0	180	Halpha	seeing=1.2, am=1.15, std=2500cts mean
305727	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	04:56	1.147	WFC	199.9	180	Halpha	seeing=1.35, am=1.15, std=5500cts mean
305728	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	05:03	1.144	WFC	120.0	180	g	seeing=1.5, am=1.4, std=25000cts mean
305729	sa113-163	21:42:35.50	+00:16:45.9	J2000.00	05:07	1.142	WFC	90.1	180	r	seeing=1.2, am=1.4, std=30000cts mean

305730	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	05:10	1.140	WFC	200.0	180	i	seeing=1.0, am=1.4, std=SATD
305731	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	05:15	1.139	WFC	160.1	180	i	seeing=0.9, am=1.4, std=SATD
305732	sa113-163	21:42:35.50	+00:16:46.0	J2000.00	05:19	1.138	WFC	80.0	180	i	seeing=1.35, am=1.4, std=25000 mean
305733	Flat field	22:57:59.99	+00:05:00.0	J2000.00	05:28	1.202	WFC	163.3	180	i	(focus 43.95)
305734	Flat field	22:57:59.33	+00:05:00.0	J2000.00	05:32	1.196	WFC	79.8	180	i	.
305735	Flat field	22:57:59.33	+00:04:50.0	J2000.00	05:35	1.192	WFC	46.5	180	i	
305736	Flat field	22:58:00.00	+00:05:00.0	J2000.00	05:38	1.187	WFC	27.0	180	r	(focus 44.10?)
305738	Flat field	22:57:59.33	+00:05:00.0	J2000.00	05:43	1.181	WFC	4.7	180	r	
305739	Flat field	22:57:59.33	+00:05:00.0	J2000.00	05:44	1.179	WFC	4.9	180	r	
305740	Flat field	22:57:59.33	+00:04:50.0	J2000.00	05:46	1.176	WFC	4.3	180	r	
305741	skyflat_g	22:58:00.00	+00:05:00.0	J2000.00	05:48	1.174	WFC	2.1	180	g	(focus 43.74?)
305742	skyflat_g	22:57:59.33	+00:04:59.9	J2000.00	05:49	1.172	WFC	3.1	180	g	
305743	skyflat_g	22:57:59.33	+00:04:49.9	J2000.00	05:51	1.170	WFC	3.1	180	g	SATD
305744	skyflat_g	22:57:59.33	+00:04:49.9	J2000.00	05:52	1.168	WFC	1.5	180	g	SATD