INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE: INT
DATE: 20001018
TAPE NR: INTD4532
OBSERVER: N. Walton
PROGRAMME: service
PATT/CAT REF.: S+M31
TELESCOPE OPERATOR: J. Rey
SUPPORT ASTRONOMER: N. Walton

TELESCOPE FOCUS: 46.18 mm
CALIBRATE RESULTS: HI 42.58 +/- 3.37, DI -38.64 +/- 1.11, HC 54.76 +/- 2.44, Sky sigma 2.94

INSTRUMENT: WFC

WFC FILTER WHEEL: i, r, U, Ha, g, KPB

WEATHER: (1st half) good
(2nd half) good
CLOUD COVER (%): (1st half) 0
(2nd half) 0
DUST (0-2): (1st half) 0
(2nd half) 0
SEEING (arcsec): (1st half) 1.4
(2nd half) 1.2

DOME OPENED (UT): 18:35

METEOROLOGICAL PARAMETERS

UT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
19:00	11.7	17	8.0	8.3	21	774.3	11.6	15.4	14.4	16	21
20:00	11.1	17	14.1	15.1	356	774.3	11.5	13.2	14.2	15	15
21:00	11.4	12	18.8	19.8	23	774.9	11.9	12.8	13.9	11	12
22:00	11.5	11	18.2	19.6	22	775.2	11.9	12.5	13.7	10	11
23:00	11.8	12	6.6	8.0	79	775.5	12.1	12.9	13.6	11	11
00:00	12.2	13	15.2	16.3	116	775.5	12.6	12.9	13.5	12	12
01:00	10.7	18	10.0	10.1	152	775.2	11.2	12.1	13.5	16	16
02:00	10.3	16	14.0	14.3	153	774.9	11.0	11.6	13.0	14	14
03:00	10.8	16	12.0	13.2	154	774.6	11.3	11.5	12.6	15	14
04:00	9.6	30	25.2	26.6	145	774.1	10.1	10.8	12.4	28	26
05:00	10.4	26	29.7	31.6	176	774.0	10.7	11.3	12.5	24	24
06:00	9.8	30	18.3	20.0	122	773.9	10.3	11.0	12.4	28	26
07:00	9.7	30	23.8	24.9	151	773.7	9.8	10.8	12.4	30	27

SUNSET(UT) 18:46
EVENING TWILIGHT(UT) 19:58
MORNING TWILIGHT(UT) 05:56
SUNRISE(UT) 07:08
MOON’S QUARTER (1-4) 3
DISK % OF ILLUM. 65
DARK TIME 09:58
TWILIGHT TIME 02:24
MOONRISE(UT) 22:56
MOONSET(UT) No moonset within sunset-sunrise

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

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys	Channel	Binning	Comments
233408	test	0:00:00.00	+00:00:00.0	A	1.145	180.1	10:59:48.4	3.1	U	RGO	1	1 x 1	
233409	Bias	14:59:59.99	+20:00:00.0	A	1.083	180.1	12:50:41.9	0.0	Halpha	Narrow-ban		1 x 1	
233410	my test	15:00:00.00	+19:59:59.9	A	1.074	180.1	12:56:12.5	4.6	Halpha	Narrow-ban		1 x 1	
233411	Bias	0:00:00.00	+00:00:00.0	A	4.707	180.1	13:44:07.3	0.0	r	Sloan		1 x 1	dark dome
233412	Bias	0:00:00.00	+00:00:00.0	A	4.707	180.1	13:44:46.6	0.0	r	Sloan		1 x 1	
233413	Bias	0:00:00.00	+00:00:00.0	A	4.707	180.1	13:45:25.8	0.0	r	Sloan		1 x 1	
233414	Bias	0:00:00.00	+00:00:00.0	A	4.707	180.1	13:46:04.9	0.0	r	Sloan		1 x 1	
233415	Bias	0:00:00.00	+00:00:00.0	A	4.707	180.1	13:46:43.9	0.0	r	Sloan		1 x 1	
233416	Bias	0:00:00.00	+00:00:00.0	A	4.707	180.1	13:47:23.2	0.0	r	Sloan		1 x 1	
233417	Bias	0:00:00.00	+00:00:00.0	A	4.707	180.1	13:48:02.2	0.0	r	Sloan		1 x 1	
233418	Bias	0:00:00.00	+00:00:00.0	A	4.707	180.1	13:52:33.6	0.0	r	Sloan		1 x 1	
233419	Bias	0:00:00.00	+00:00:00.0	A	4.707	180.1	13:53:12.8	0.0	r	Sloan		1 x 1	
233420	Bias	0:00:00.00	+00:00:00.0	A	4.707	180.1	13:53:52.2	0.0	r	Sloan		1 x 1	
233421	Flat field	19:19:08.99	+12:22:05.0	B1950.00	1.045	180.1	19:02:49.5	3.4	g	Sloan		1 x 1	
233422	Flat field	19:19:09.68	+12:22:15.0	B1950.00	1.046	180.1	19:04:18.8	5.4	g	Sloan		1 x 1	
233423	Flat field	19:19:09.68	+12:21:55.0	B1950.00	1.046	180.1	19:05:46.5	7.8	g	Sloan		1 x 1	
233424	Flat field	19:19:09.68	+12:21:54.9	B1950.00	1.047	180.1	19:07:05.8	11.2	g	Sloan		1 x 1	
233425	Flat field	19:19:10.02	+12:21:49.8	B1950.00	1.048	180.1	19:08:47.5	16.7	g	Sloan		1 x 1	
233426	Flat field	19:19:07.97	+12:21:50.0	B1950.00	1.049	180.1	19:10:21.7	25.4	g	Sloan		1 x 1	
233427	Flat field	19:19:07.97	+12:21:49.9	B1950.00	1.050	180.1	19:12:09.5	42.0	r	Sloan		1 x 1	
233428	Flat field	19:19:07.29	+12:22:20.0	B1950.00	1.051	180.1	19:14:13.3	67.0	r	Sloan		1 x 1	
233429	Flat field	19:19:07.29	+12:21:50.0	B1950.00	1.053	180.1	19:17:20.9	124.5	r	Sloan		1 x 1	
233430	Focus run	21:42:35.00	+00:19:16.0	J2000.00	1.200	180.1	19:50:18.9	10.2	g	Sloan		1 x 1	
233431	Focus run	21:42:34.99	+00:19:16.1	J2000.00	1.188	180.1	19:57:26.1	10.1	g	Sloan		1 x 1	foc 46.12
233432	sa113-163 g	21:42:35.00	+00:21:46.0	J2000.00	1.177	180.1	20:02:43.8	10.1	g	Sloan		1 x 1	
233433	sa113-163 r	21:42:34.99	+00:21:45.9	J2000.00	1.176	180.1	20:04:09.0	10.1	r	Sloan		1 x 1	
233434	sa113-163 i	21:42:35.00	+00:21:46.0	J2000.00	1.174	180.1	20:05:23.8	10.1	i	Sloan		1 x 1	
233435	sa113-163 KPB	21:42:34.99	+00:21:46.0	J2000.00	1.172	180.1	20:06:38.4	12.1	B	Kitt Peak		1 x 1	
233436	wfssgc031 r	23:00:00.00	+00:00:00.3	J2000.00	1.325	180.1	20:10:56.0	899.1	r	Sloan		1 x 1	
233437	wfssgc031 r	23:00:00.00	-00:00:00.0	J2000.00	1.275	180.1	20:27:12.0	899.1	r	Sloan		1 x 1	
233438	wfssgc031 g	23:00:00.00	-00:00:00.0	J2000.00	1.235	180.1	20:43:17.3	899.2	g	Sloan		1 x 1	
233439	wfssgc031 g	22:59:59.99	+00:00:00.0	J2000.00	1.202	180.1	20:59:36.8	899.0	g	Sloan		1 x 1	
233440	wfssgc095 r	1:08:00.00	-00:00:00.2	J2000.00	1.635	180.1	21:18:05.6	898.7	r	Sloan		1 x 1	
233441	wfssgc095 r	1:07:59.99	-00:00:00.2	J2000.00	1.527	180.1	21:34:22.4	899.1	r	Sloan		1 x 1	
233442	wfssgc095 g	1:08:00.00	+00:00:00.0	J2000.00	1.441	180.1	21:50:26.4	899.0	g	Sloan		1 x 1	
233443	wfssgc095 g	1:08:00.00	+00:00:00.1	J2000.00	1.369	180.1	22:06:42.6	899.2	g	Sloan		1 x 1	
233444	Focus run	0:55:00.00	+00:46:43.1	J2000.00	1.274	180.1	22:27:13.3	10.1	g	Sloan		1 x 1	
233445	sa92-335 g	0:54:59.99	+00:49:12.9	J2000.00	1.253	180.1	22:33:12.5	10.1	g	Sloan		1 x 1	
233446	sa92-335 r	0:54:59.99	+00:49:12.9	J2000.00	1.250	180.1	22:34:32.6	10.1	r	Sloan		1 x 1	
233447	sa92-335 i	0:54:59.99	+00:49:13.0	J2000.00	1.246	180.1	22:35:54.7	10.1	i	Sloan		1 x 1	
233448	sa92-335 KPB	0:55:00.00	+00:49:13.0	J2000.00	1.243	180.1	22:37:15.2	10.1	B	Kitt Peak		1 x 1	
233449	wfssgc096 r	1:09:59.99	+00:00:00.0	J2000.00	1.266	180.1	22:40:07.3	899.2	r	Sloan		1 x 1	
233450	wfssgc096 r	1:09:59.99	-00:00:00.1	J2000.00	1.227	180.1	22:56:23.2	899.2	r	Sloan		1 x 1	
233451	wfssgc096 g	1:09:59.99	-00:00:00.0	J2000.00	1.197	180.1	23:12:30.3	899.1	g	Sloan		1 x 1	
233452	wfssgc096 g	1:10:00.00	+00:00:00.0	J2000.00	1.173	180.1	23:28:47.6	899.2	g	Sloan		1 x 1	
233453	wfssgc108 r	1:34:00.00	+00:00:00.1	J2000.00	1.182	180.1	23:45:48.3	899.1	r	Sloan		1 x 1	
233454	wfssgc108 r	1:33:59.99	+00:00:00.0	J2000.00	1.163	180.1	00:02:12.3	899.4	r	Sloan		1 x 1	
233455	wfssgc108 g	1:34:00.00	-00:00:00.0	J2000.00	1.149	180.1	00:18:30.0	899.1	g	Sloan		1 x 1	
233456	wfssgc108 g	1:33:59.99	-00:00:00.0	J2000.00	1.142	180.1	00:34:46.6	898.6	g	Sloan		1 x 1	
233457	wfssgc109 r	1:36:00.00	+00:00:00.0	J2000.00	1.141	180.1	00:53:59.0	899.2	r	Sloan		1 x 1	
233458	wfssgc109 r	1:36:00.00	-00:00:00.0	J2000.00	1.146	180.1	01:10:17.8	899.1	r	Sloan		1 x 1	
233460	Bias	1:36:00.00	+00:00:00.0	J2000.00	1.152	180.1	01:28:54.2	0.0	g	Sloan		1 x 1	
233461	M31-microfld1	0:44:00.00	+41:33:59.8	J2000.00	1.083	180.1	01:33:21.2	319.8	r	Sloan		1 x 1	
233462	M31-microfld1	0:43:59.99	+41:33:59.9	J2000.00	1.092	180.1	01:40:06.3	319.8	r	Sloan		1 x 1	
233463	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.102	180.1	01:46:50.1	319.8	i	Sloan		1 x 1	
233464	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.113	180.1	01:53:31.6	319.3	i	Sloan		1 x 1	
233465	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.126	180.1	02:01:24.6	319.7	r	Sloan		1 x 1	
233466	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.139	180.1	02:08:15.6	319.7	r	Sloan		1 x 1	
233467	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.153	180.1	02:15:01.2	319.7	i	Sloan		1 x 1	
233468	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.168	180.1	02:21:48.7	319.8	i	Sloan		1 x 1	
233469	wfssgc109 g	1:36:00.00	+00:00:00.0	J2000.00	1.269	180.1	02:32:35.0	899.1	g	Sloan		1 x 1	

233470	wfssgc109 g	1:36:00.00	-00:00:00.1	J2000.00	1.320	180.1	02:49:27.4	899.1	g	Sloan		1 x 1
233471	sa98-670 r	6:52:12.00	-00:19:16.9	J2000.00	1.641	180.1	03:08:49.6	10.1	r	Sloan		1 x 1
233472	sa98-670 i	6:52:12.00	-00:19:17.0	J2000.00	1.631	180.1	03:10:06.7	10.1	i	Sloan		1 x 1
233473	sa98-670 g	6:52:12.00	-00:19:17.0	J2000.00	1.622	180.1	03:11:27.5	10.1	g	Sloan		1 x 1
233474	star +8mm 10s	3:44:30.50	-01:09:47.2	J2000.00	1.168	180.1	03:40:10.5	10.1	g	Sloan		1 x 1
233475	star +8mm 5s	3:44:30.50	-01:09:47.3	J2000.00	1.171	180.1	03:44:09.3	5.1	g	Sloan		1 x 1
233476	star -8mm 5s	3:44:30.50	-01:09:47.2	J2000.00	1.177	180.1	03:49:39.1	5.1	g	Sloan		1 x 1
233477	star -8mm 10s	3:44:30.50	-01:09:47.2	J2000.00	1.178	180.1	03:50:57.0	10.1	g	Sloan		1 x 1
233478	iras09 r	9:15:15.20	+41:02:50.3	J2000.00	1.736	180.1	03:59:04.9	999.1	r	Sloan		1 x 1
233479	iras09 r	9:15:15.20	+41:02:50.4	J2000.00	1.605	180.1	04:17:05.1	999.1	r	Sloan		1 x 1
233480	iras09 i	9:15:15.19	+41:02:50.3	J2000.00	1.497	180.1	04:35:05.6	998.6	i	Sloan		1 x 1
233481	iras09 i	9:15:15.20	+41:02:50.2	J2000.00	1.407	180.1	04:53:05.6	999.2	i	Sloan		1 x 1
233482	abell634a i	8:13:04.99	+58:14:32.0	J2000.00	1.266	180.1	05:12:10.6	299.8	i	Sloan		1 x 1
233483	abell634a 3	8:13:05.00	+58:14:31.9	J2000.00	1.255	180.1	05:18:27.3	299.8	i	Sloan		1 x 1
233484	abell634a KPB	8:13:05.00	+58:14:32.0	J2000.00	1.242	180.1	05:24:31.8	499.5	B	Kitt Peak		1 x 1
233485	abell634b i	8:15:49.00	+58:13:47.0	J2000.00	1.230	180.1	05:36:57.9	299.8	i	Sloan		1 x 1
233486	abell634b 3	4:07:54.50	+29:06:53.4	J2000.00	1.221	180.1	05:43:15.8	299.8	i	Sloan		1 x 1
233487	abell634b KPB	8:15:48.99	+58:13:47.1	J2000.00	1.210	180.1	05:49:21.2	499.5	B	Kitt Peak		1 x 1
233488	sa98-670 r	6:52:11.99	-00:19:16.9	J2000.00	1.145	180.1	05:59:45.1	10.1	r	Sloan		1 x 1
233489	sa98-670 i	6:52:11.99	-00:19:17.0	J2000.00	1.145	180.1	06:01:00.2	10.1	i	Sloan		1 x 1
233490	sa98-670 g	6:52:11.99	-00:19:17.0	J2000.00	1.145	180.1	06:02:16.8	10.1	g	Sloan		1 x 1
233491	sa98-670 KPB	6:52:12.00	-00:19:16.9	J2000.00	1.145	180.1	06:03:31.6	10.1	B	Kitt Peak		1 x 1
233492	sa101-427 r	9:57:25.99	-00:17:15.9	J2000.00	1.700	180.1	06:05:49.9	10.1	r	Sloan		1 x 1
233493	sa101-427 i	9:57:26.00	-00:17:16.0	J2000.00	1.690	180.1	06:07:03.5	9.6	i	Sloan		1 x 1
233494	sa101-427 g	9:57:26.00	-00:17:16.0	J2000.00	1.680	180.1	06:08:19.8	10.1	g	Sloan	1	1 x 1
233495	sa101-427 KPB	9:57:26.00	-00:17:16.0	J2000.00	1.670	180.1	06:09:35.2	10.1	B	Kitt Peak	1	1 x 1
233496	Bias	9:57:25.99	-00:17:16.0	J2000.00	1.662	180.1	06:10:41.9	0.0	B	Kitt Peak	1	1 x 1
233497	Bias	9:57:25.99	-00:17:15.9	J2000.00	1.657	180.1	06:11:21.4	0.0	B	Kitt Peak	1	1 x 1
233498	Bias	9:57:26.00	-00:17:16.0	J2000.00	1.652	180.1	06:12:00.6	0.0	B	Kitt Peak	1	1 x 1
233499	Flat field	4:25:57.39	+54:10:42.9	B1950.00	1.283	180.1	06:29:43.2	259.9	i	Sloan	1	1 x 1
233500	Flat field	4:25:58.53	+54:10:53.0	B1950.00	1.294	180.1	06:35:37.5	90.0	i	Sloan	1	1 x 1
233501	Flat field	4:25:57.39	+54:11:03.0	B1950.00	1.300	180.1	06:38:34.6	54.6	i	Sloan	1	1 x 1
233502	Flat field	4:25:57.39	+54:10:32.9	B1950.00	1.306	180.1	06:40:57.9	35.1	i	Sloan	1	1 x 1
233503	Flat field	4:25:47.14	+54:09:13.0	B1950.00	1.312	180.1	06:43:04.5	27.8	r	Sloan	1	1 x 1
233504	Flat field	4:25:46.56	+54:08:58.0	B1950.00	1.316	180.1	06:44:45.6	26.1	r	Sloan	1	1 x 1
233505	Flat field	4:25:45.43	+54:09:07.9	B1950.00	1.321	180.1	06:46:47.2	11.5	r	Sloan	1	1 x 1
233506	Flat field	4:25:45.42	+54:09:08.0	B1950.00	1.326	180.1	06:48:18.5	10.3	B	Kitt Peak	1	1 x 1
233507	Flat field	4:25:44.29	+54:09:18.0	B1950.00	1.330	180.1	06:49:55.6	4.1	B	Kitt Peak	1	1 x 1
233508	Flat field	4:25:48.84	+54:08:37.9	B1950.00	1.333	180.1	06:51:06.2	3.1	B	Kitt Peak	1	1 x 1
233509	Flat field	4:25:46.10	+54:09:03.9	B1950.00	1.336	180.1	06:52:11.8	2.6	B	Kitt Peak	1	1 x 1
233510	Flat field	4:25:47.13	+54:08:48.0	B1950.00	1.340	180.1	06:53:27.6	1.6	B	Kitt Peak	1	1 x 1
233511	Flat field	4:25:47.13	+54:08:48.0	B1950.00	1.343	180.1	06:54:34.8	1.3	g	Sloan	1	1 x 1