INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA) generated 2002 06 04 07:04

TELESCOPE	INT
DATE	20020603
OBSERVER/S	Cardwell,Zurita,Gudmunds
PROGRAMME	Local Group Census
PROPOSAL REF	WFS4
TELESCOPE OPERATOR	none
SUPPORT ASTRONOMER	none

TEL STATION / FOCUS	Prime / 44.01
INSTRUMENT/S	WFC

SUNSET (UT)	20:14
EVENING TWILIGHT (UT)	21:39
MORNING TWILIGHT (UT)	04:40
SUNRISE (UT)	06:05
%ILLUM. LUNAR DISK	41
DARK TIME (HRS)	07:01
TWILIGHT TIME (HRS)	02:50
MOONRISE (UT)	02:21
MOONSET (UT)	No moonset within sunset-sunrise

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	9.5	18	12.3	16.3	323	771.3	9.5	13.7	13.9	18	15
22:00	8.5	19	21.5	22.1	328	771.3	8.5	10.7	13.5	19	14
23:00	8.5	18	27.1	29.3	330	771.6	8.5	9.9	12.2	18	16
00:00	8.1	22	22.2	22.9	323	771.9	8.1	9.5	12.1	22	17
01:00	7.7	21	17.3	19.5	313	771.6	7.7	9.5	11.8	21	17
02:00	8.1	26	18.1	20.0	330	771.2	8.1	9.5	11.6	26	21
03:00	8.1	26	14.5	15.9	272	770.7	8.1	9.0	12.1	26	22
04:00	7.3	24	20.5	21.9	311	770.1	7.3	8.7	11.7	24	20
05:00	6.9	18	23.2	23.9	322	770.0	6.9	8.4	11.1	18	16
06:00	6.7	16	22.1	23.4	338	769.9	6.7	8.3	11.5	16	14

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

WEATHER CONDITIONS (eg transparancy, dust, %cloud cover, seeing):
Photometric night. Variable seeing ~1.0-2.0"

COMMENTS (causes of time lost, setup information eg CCD windows):

Run	Object	RA	Dec	Equinox	UT	Airm	Instr	Texp sec	Sky PA	Filters etc.	Slit	Grat	CenwA	Comments
304826	Bias frame	5:00:00.00	+00:00:00.0	J2000.00	13:03	1.145	WFC	0.0	180	stromgren y				
304827	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	13:20	2.900	WFC	0.0	180	stromgren y				
304828	Bias	0:00:00.00	+00:00:00.0	J2000.00	17:47	4.259	WFC	0.0	180	g				
304829	Bias	0:00:00.00	+00:00:00.0	J2000.00	17:51	4.259	WFC	0.0	180	[OIII]5007				
304830	Bias	0:00:00.00	+00:00:00.0	J2000.00	17:52	4.259	WFC	0.0	180	[OIII]5007				
304831	Bias	0:00:00.00	+00:00:00.0	J2000.00	17:53	4.259	WFC	0.0	180	[OIII]5007				
304832	Bias	0:00:00.00	+00:00:00.0	J2000.00	17:54	4.259	WFC	0.0	180	[OIII]5007				
304833	Bias	0:00:00.00	+00:00:00.0	J2000.00	17:55	4.259	WFC	0.0	180	[OIII]5007				
304834	Bias	0:00:00.00	+00:00:00.0	J2000.00	17:56	4.259	WFC	0.0	180	[OIII]5007				
304835	Bias	0:00:00.00	+00:00:00.0	J2000.00	17:57	4.259	WFC	0.0	180	[OIII]5007				
304836	test g	0:00:00.00	+00:00:00.0	J2000.00	18:05	4.259	WFC	10.1	180	g				
304837	test r	0:00:00.00	+00:00:00.0	J2000.00	18:06	4.259	WFC	10.1	180	r				

304838	test i	0:00:00.00	+00:00:00.0	J2000.00	18:07	4.259	WFC	10.1	180	i	
304839	sflat Ha	15:02:00.00	+29:54:59.9	J2000.00	20:15	1.326	WFC	10.1	180	Halpha	saturated
304840	sflat Ha	15:02:00.77	+29:55:10.0	J2000.00	20:16	1.319	WFC	3.1	180	Halpha	saturated
304841	sflat Ha	15:02:01.53	+29:55:19.9	J2000.00	20:18	1.313	WFC	1.6	180	Halpha	OK, about 24000 ADU
304842	sflat Ha	15:02:00.77	+29:55:10.0	J2000.00	20:20	1.306	WFC	2.1	180	Halpha	
304843	sflat Ha	15:02:00.00	+29:54:59.9	J2000.00	20:21	1.300	WFC	4.1	180	Halpha	
304844	sflat Ha	15:01:59.22	+29:54:50.0	J2000.00	20:22	1.295	WFC	6.1	180	Halpha	
304845	sflat o3	15:01:58.46	+29:54:40.0	J2000.00	20:24	1.289	WFC	8.1	180	[OIII]5007	bit high, about 40000 ADU
304846	sflat o3	15:01:59.23	+29:54:49.9	J2000.00	20:25	1.283	WFC	8.1	180	[OIII]5007	
304847	sflat o3	15:02:00.00	+29:55:00.0	J2000.00	20:27	1.278	WFC	10.1	180	[OIII]5007	
304848	sflat o3	15:02:00.76	+29:55:10.0	J2000.00	20:28	1.272	WFC	12.1	180	[OIII]5007	
304849	sflat StY	15:02:00.77	+29:55:10.0	J2000.00	20:30	1.267	WFC	10.1	180	stromgren y	
304850	sflat StY	15:02:01.53	+29:55:20.0	J2000.00	20:31	1.261	WFC	20.1	180	stromgren y	
304851	sflat StY	15:02:00.00	+29:55:00.0	J2000.00	20:33	1.255	WFC	30.1	180	stromgren y	
304852	sflat g	15:02:00.00	+29:54:59.9	J2000.00	20:34	1.250	WFC	6.4	180	g	bit high, about 44000 ADU
304853	sflat g	15:02:00.76	+29:55:10.0	J2000.00	20:36	1.243	WFC	7.1	180	g	
304854	sflat g	15:02:01.53	+29:55:20.0	J2000.00	20:38	1.238	WFC	11.1	180	g	
304855	sflat g	15:01:59.23	+29:54:49.9	J2000.00	20:39	1.232	WFC	14.1	180	g	
304856	sflat r	15:01:59.23	+29:54:50.0	J2000.00	20:41	1.227	WFC	14.1	180	r	low level, about 6000 ADU
304857	sflat r	15:02:00.00	+29:55:00.0	J2000.00	20:42	1.222	WFC	40.1	180	r	low level, about 10000 ADU
304858	sflat r	15:02:00.76	+29:55:10.0	J2000.00	20:45	1.212	WFC	100.0	180	r	low level, about 14000 ADU
304859	Focus run	12:42:20.50	-00:37:58.9	J2000.00	20:53	1.149	WFC	10.1	180	r	
304862	Focus run	12:42:20.49	-00:37:58.8	J2000.00	21:10	1.148	WFC	10.1	180	r	sseing ~1.1"
304864	sa104-334 g	12:42:20.50	-00:40:29.0	J2000.00	21:22	1.151	WFC	10.1	180	g	
304865	sa104-334 r	12:42:20.49	-00:40:29.0	J2000.00	21:23	1.152	WFC	10.1	180	r	
304866	sa104-334 i	12:42:20.49	-00:40:29.0	J2000.00	21:25	1.152	WFC	10.1	180	i	
304867	test LeoI	10:08:27.00	+12:29:29.9	J2000.00	21:34	1.424	WFC	29.5	180	Halpha	object in ccd1
304868	LeoI Ha	10:08:26.99	+12:29:30.0	J2000.00	21:35	1.492	WFC	1199.1	180	Halpha	seeing 1.3"
304869	LeoI g	10:08:27.00	+12:29:29.9	J2000.00	22:00	1.613	WFC	299.9	180	g	
304870	LeoI r	10:08:26.99	+12:29:29.8	J2000.00	22:07	1.667	WFC	299.9	180	r	
304871	LeoI i	10:08:26.99	+12:29:29.9	J2000.00	22:14	1.727	WFC	300.0	180	i	seeing ~2"
304873	sa104-334 g	12:42:20.49	-00:40:29.0	J2000.00	22:26	1.226	WFC	10.1	180	g	
304874	sa104-334 r	12:42:20.50	-00:40:29.0	J2000.00	22:28	1.229	WFC	10.1	180	r	
304875	sa104-334 i	12:42:20.50	-00:40:29.0	J2000.00	22:30	1.233	WFC	10.1	180	i	
304876	feige67 Ha #4	12:41:51.79	+17:31:21.0	J2000.00	22:35	1.091	WFC	30.1	180	Halpha	
304877	feige67 Ha #1	12:41:51.80	+17:31:21.0	J2000.00	22:37	1.095	WFC	30.1	180	Halpha	
304878	feige67 Ha #3	12:41:51.80	+17:31:20.8	J2000.00	22:39	1.099	WFC	30.1	180	Halpha	
304879	feige67 Ha #2	12:41:51.80	+17:31:20.9	J2000.00	22:41	1.103	WFC	30.1	180	Halpha	seeing ~1.3"
304881	feige67 O3 #4	12:41:51.80	+17:31:20.9	J2000.00	22:45	1.111	WFC	30.1	180	[OIII]5007	
304882	feige67 O3 #1	12:41:51.80	+17:31:20.9	J2000.00	22:47	1.114	WFC	30.1	180	[OIII]5007	
304883	feige67 O3 #3	12:41:51.80	+17:31:21.0	J2000.00	22:50	1.119	WFC	30.1	180	[OIII]5007	
304884	feige67 O3 #2	12:41:51.80	+17:31:20.9	J2000.00	22:52	1.123	WFC	30.1	180	[OIII]5007	
304886	Focus run	15:08:29.70	+67:05:37.1	J2000.00	23:10	1.276	WFC	12.1	180	r	
304887	Focus run	15:08:29.69	+67:05:52.1	J2000.00	23:19	1.275	WFC	9.5	180	r	
304888	Uminor test	15:08:29.70	+67:07:52.0	J2000.00	23:23	1.275	WFC	15.1	180	r	foc 43.97
304889	Uminor foc 44.01	15:08:29.69	+67:07:52.0	J2000.00	23:27	1.275	WFC	15.1	180	r	seing 1.1"
304890	UMinorSW g	15:08:29.70	+67:03:52.0	J2000.00	23:32	1.274	WFC	399.9	180	g	seing 1.4"
304891	UMinorSW r	15:08:29.70	+67:03:52.0	J2000.00	23:41	1.274	WFC	399.9	180	r	seing 1.1"
304892	UMinorSW i	15:08:29.70	+67:03:51.9	J2000.00	23:49	1.276	WFC	399.4	180	i	seing 1.05"
304893	UMinorSW g	15:08:29.70	+67:03:52.0	J2000.00	23:58	1.278	WFC	399.8	180	g	seing 1.4"
304894	UMinorSW r	15:08:29.70	+67:03:52.0	J2000.00	00:06	1.281	WFC	399.9	180	r	seing 1.2"
304895	UMinorSW i	15:08:29.70	+67:03:52.0	J2000.00	00:15	1.285	WFC	399.8	180	i	seing 1.2"
304896	UMinorSW g	15:08:29.69	+67:03:51.9	J2000.00	00:23	1.290	WFC	399.8	180	g	seing 1.3"
304897	UMinorSW r	15:08:29.70	+67:03:52.0	J2000.00	00:32	1.295	WFC	399.8	180	r	seing 1.3"
304898	UminorSW	15:08:29.70	+67:03:52.0	J2000.00	00:40	1.302	WFC	399.9	180	i	seing 1.1"
304899	UminorNE g	15:12:06.60	+67:26:51.9	J2000.00	00:53	1.316	WFC	399.9	180	g	seing 1.6"
304900	UminorNE r	15:12:06.60	+67:26:52.0	J2000.00	01:01	1.324	WFC	399.4	180	r	seing 1.2"
304901	UminorNE i	15:12:06.60	+67:26:52.0	J2000.00	01:10	1.333	WFC	399.9	180	i	seing 1.1"
304902	N6833 Ha #4	19:49:46.60	+48:57:40.0	J2000.00	01:22	1.267	WFC	3.1	180	Halpha	seing 1.6"
304903	N6833 Ha #1	19:49:46.59	+48:57:40.0	J2000.00	01:24	1.264	WFC	3.1	180	Halpha	seing 1.0"
304904	N6833 Ha #3	19:49:46.60	+48:57:39.9	J2000.00	01:25	1.259	WFC	3.1	180	Halpha	
304905	N6833 Ha #2	19:49:46.59	+48:57:39.9	J2000.00	01:27	1.255	WFC	3.1	180	Halpha	

304906	N6833 O3 #4	19:49:46.60	+48:57:40.0	J2000.00	01:29	1.250	WFC	5.0	180	[OIII]5007	seing 1.25"
304907	N6833 O3 #1	19:49:46.60	+48:57:40.0	J2000.00	01:30	1.246	WFC	5.1	180	[OIII]5007	seing 1.3"
304908	N6833 O3 #3	19:49:46.60	+48:57:40.0	J2000.00	01:32	1.242	WFC	5.1	180	[OIII]5007	
304909	N6833 O3 #2	19:49:46.60	+48:57:39.9	J2000.00	01:34	1.238	WFC	4.5	180	[OIII]5007	
304910	N6822sw Ha	19:44:41.40	-14:57:11.0	J2000.00	01:40	1.731	WFC	1199.3	180	Halpha	seing 1.5", 12% ellip
304911	N6822sw r	19:44:41.40	-14:57:11.0	J2000.00	02:02	1.645	WFC	399.9	180	r	
304912	N6822sw Ha	19:44:41.40	-14:57:11.0	J2000.00	02:11	1.575	WFC	1198.9	180	Halpha	seing 1.3"
304913	N6822sw r	19:44:41.40	-14:57:11.0	J2000.00	02:33	1.519	WFC	399.9	180	r	
304914	N6822sw O3	19:44:41.40	-14:57:10.9	J2000.00	02:43	1.470	WFC	1199.4	180	[OIII]5007	seing 1.6"
304915	N6822sw stY	19:44:41.39	-14:57:11.0	J2000.00	03:05	1.433	WFC	599.8	180	stromgren y	seing 2.0"
304916	N6822sw O3	19:44:41.40	-14:57:11.0	J2000.00	03:17	1.407	WFC	1199.3	180	[OIII]5007	seing 1.8"
304917	N6822sw stY	19:44:41.40	-14:57:10.9	J2000.00	03:39	1.390	WFC	599.7	180	stromgren y	
304918	N6822se O3	19:46:04.10	-14:56:11.0	J2000.00	03:52	1.383	WFC	1198.9	180	[OIII]5007	seing 1.5"
304919	N6822se stY	19:46:04.09	-14:56:10.9	J2000.00	04:14	1.384	WFC	599.8	180	stromgren y	
304920	G93-48 O3 #4	21:52:25.33	+02:23:24.3	J2000.00	04:29	1.240	WFC	40.1	180	[OIII]5007	
304921	G93-48 O3 #1	21:52:25.32	+02:23:24.3	J2000.00	04:31	1.235	WFC	40.1	180	[OIII]5007	
304922	G93-48 O3 #3	21:52:25.33	+02:23:24.2	J2000.00	04:33	1.229	WFC	40.1	180	[OIII]5007	
304923	G93-48 O3 #2	21:52:25.33	+02:23:24.2	J2000.00	04:35	1.224	WFC	39.6	180	[OIII]5007	
304924	G93-48 Ha #4	21:52:25.32	+02:23:24.2	J2000.00	04:38	1.218	WFC	40.1	180	Halpha	
304925	G93-48 Ha #1	21:52:25.33	+02:23:24.2	J2000.00	04:40	1.213	WFC	39.5	180	Halpha	
304926	G93-48 Ha #3	21:52:25.33	+02:23:24.2	J2000.00	04:42	1.208	WFC	39.6	180	Halpha	
304927	G93-48 Ha #2	21:52:25.32	+02:23:24.3	J2000.00	04:44	1.203	WFC	39.6	180	Halpha	
304928	IC5117 Ha #4	21:32:31.00	+44:35:48.0	J2000.00	04:49	1.067	WFC	5.1	180	Halpha	
304929	IC5117 Ha #1	21:32:31.00	+44:35:47.8	J2000.00	04:50	1.066	WFC	5.0	180	Halpha	
304930	IC5117 Ha #3	21:32:31.00	+44:35:47.9	J2000.00	04:52	1.064	WFC	5.1	180	Halpha	
304931	IC5117 Ha #2	21:32:31.00	+44:35:48.0	J2000.00	04:53	1.063	WFC	5.1	180	Halpha	
304932	IC5117 O3 #4	21:32:30.99	+44:35:48.0	J2000.00	04:56	1.061	WFC	4.5	180	[OIII]5007	
304933	IC5117 O3 #1	21:32:31.00	+44:35:47.9	J2000.00	04:57	1.060	WFC	4.5	180	[OIII]5007	
304934	IC5117 O3 #3	21:32:30.99	+44:35:47.9	J2000.00	04:59	1.059	WFC	5.1	180	[OIII]5007	
304935	IC5117 O3 #2	21:32:31.00	+44:35:48.0	J2000.00	05:01	1.058	WFC	5.1	180	[OIII]5007	
304936	Feige110 O3	23:19:58.40	-05:09:57.0	J2000.00	05:04	1.580	WFC	30.1	180	[OIII]5007	star in ccd4
304937	Feige110 Ha	23:19:58.40	-05:09:56.9	J2000.00	05:06	1.563	WFC	30.1	180	Halpha	star in ccd4
304938	BD+28-4211 Ha	21:51:11.10	+28:51:53.0	J2000.00	05:10	1.029	WFC	29.5	180	Halpha	star in ccd4
304939	BD+28-4211 O3	21:51:11.09	+28:51:52.9	J2000.00	05:12	1.027	WFC	30.1	180	[OIII]5007	
304940	sflat i	19:19:09.00	+12:22:04.5	B1950.00	05:15	1.121	WFC	8.1	180	i	low counts
304941	sflat i	19:19:08.99	+12:22:05.0	B1950.00	05:16	1.124	WFC	7.1	180	i	low counts
304942	sflat i	22:57:59.99	+00:04:59.8	J2000.00	05:20	1.312	WFC	6.1	180	i	not useful
304943	sflat i	22:58:00.00	+00:04:59.9	J2000.00	05:22	1.306	WFC	30.1	180	i	not useful
304944	sflat i	22:58:00.66	+00:05:10.0	J2000.00	05:25	1.292	WFC	120.0	180	i	19000 adu
304945	sflat i	22:58:00.66	+00:05:10.0	J2000.00	05:30	1.280	WFC	110.0	180	i	33000 adu
304946	sflat i	22:58:01.33	+00:05:19.9	J2000.00	05:33	1.271	WFC	89.5	180	i	48000 adu
304947	sflat i	22:57:59.33	+00:04:49.9	J2000.00	05:36	1.264	WFC	29.6	180	i	27000 adu
304948	sflat i	22:57:58.66	+00:04:40.0	J2000.00	05:38	1.260	WFC	15.1	180	i	19000 adu
304949	sflat i	22:57:59.99	+00:05:10.0	J2000.00	05:40	1.254	WFC	7.6	180	i	17000 adu
304950	sflat r	22:58:00.00	+00:05:09.9	J2000.00	05:41	1.251	WFC	8.1	180	r	20000 adu
304951	sflat r	22:58:00.00	+00:04:59.9	J2000.00	05:43	1.247	WFC	3.0	180	r	17000 adu
304952	sflat r	22:57:59.33	+00:04:49.9	J2000.00	05:44	1.244	WFC	3.1	180	r	15000 adu
304953	sflat r	22:57:59.33	+00:04:39.9	J2000.00	05:46	1.241	WFC	2.5	180	r	21000 adu
304954	sflat r	22:57:59.32	+00:04:29.8	J2000.00	05:47	1.238	WFC	2.1	180	r	20000 adu
304955	bias	0:00:00.00	+00:00:00.0	J2000.00	05:56	2.900	WFC	0.0	180	r	
304956	bias	0:00:00.00	+00:00:00.0	J2000.00	05:56	3.044	WFC	0.0	180	r	
304957	bias	0:00:00.00	+00:00:00.0	J2000.00	05:57	3.752	WFC	0.0	180	r	
304958	bias	0:00:00.00	+00:00:00.0	J2000.00	05:58	4.231	WFC	0.0	180	r	
304959	bias	0:00:00.00	+00:00:00.0	J2000.00	05:58	4.231	WFC	0.0	180	r	
304960	bias	0:00:00.00	+00:00:00.0	J2000.00	05:59	4.231	WFC	0.0	180	r	
304961	bias	0:00:00.00	+00:00:00.0	J2000.00	06:00	4.231	WFC	0.0	180	r	
304962	bias	0:00:00.00	+00:00:00.0	J2000.00	06:00	4.231	WFC	0.0	180	r	
304963	bias	0:00:00.00	+00:00:00.0	J2000.00	06:01	4.231	WFC	0.0	180	r	