INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:              INT
DATE:                   20001031
TAPE NR:                INTD4540
OBSERVER:               Andrew Bunker
PROGRAMME:              Cambridege-Carnegie Deep OIR Galaxy Survey + M31 override
PATT/CAT REF.:          P17+M31
TELESCOPE OPERATOR:     NONE (Neil Mahony on 29&30 Oct)
SUPPORT ASTRONOMER:     NONE (Nic Walton on 29 Oct)

TELESCOPE FOCUS:        46.15 mm
CALIBRATE RESULTS:      HI 57.8 +/- , DI -36.0 +/- , HC 37.7 +/- , Sky sigma single star

INSTRUMENT:             WFC

WFC FILTER WHEEL:       g,r,i,U,Z,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) 1.1
                        (2nd half) 1.1

DOME OPENED (UT):       18:30
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METEOROLOGICAL PARAMETERS

LT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
19:00	8.2	22	22.0	22.5	8	770.9	8.6	10.6	12.1	21	18
20:00	9.0	16	24.0	26.0	10	771.3	9.4	10.2	11.4	14	16
21:00	10.0	11	23.7	27.9	5	771.6	10.3	10.5	11.6	10	11
22:00	9.6	11	21.6	22.0	6	771.9	10.0	10.6	11.4	10	11
23:00	10.2	6	27.2	29.2	12	771.8	10.6	11.0	11.3	5	7
00:00	11.2	5	19.6	22.7	46	771.6	11.5	11.6	11.3	4	5
01:00	10.2	8	21.3	24.5	25	771.5	10.7	11.6	11.4	7	8
02:00	9.8	16	25.5	27.1	46	771.3	10.0	11.0	11.3	23	20
03:00	8.4	63	26.2	29.1	46	770.9	8.7	10.5	11.3	60	50
04:00	8.3	63	24.6	25.5	42	770.7	8.6	10.2	11.0	62	54
05:00	8.5	63	24.5	25.5	27	770.6	8.9	9.7	10.8	61	57
06:00	8.4	64	21.9	24.3	4	770.6	8.6	9.0	10.4	64	61
07:00	8.5	62	23.3	25.6	11	770.8	8.9	9.7	10.8	60	56

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SUNSET(UT)              18:35
EVENING TWILIGHT(UT)    19:47
MORNING TWILIGHT(UT)    06:04
SUNRISE(UT)             07:16
MOON'S QUARTER (1-4)    1
DISK % OF ILLUM.        19
DARK TIME               10:17
TWILIGHT TIME           02:24
MOONRISE(UT)            No moonrise within sunset-sunrise
MOONSET(UT)             21:54

TIME LOST(WEATHER):     00:00
TIME LOST(TECHNICAL):   00:20
TIME LOST(OTHER):       00:00
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COMMENTS:
Clear skies and good seeing (1.1" in U going to 1.3" later, 0.9" in Z)

Some problems with control of guider (faint guide stars in U
on first field caused one 900s image to be trailed).
Telescope pointing went wrong at 04:00 - some difficulties finding
inguide stars (minor problem - did not bother zerosetting again)

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
234289	Bias frame	16:00:00.00	+19:59:59.8	A	1.014	180.0	14:12:48.8	0.0	U	RGO	1 x 1	
234290	Bias frame	15:59:59.99	+19:59:59.9	A	1.013	180.0	14:17:56.5	0.0	U	RGO	1 x 1	
234291	Bias frame	15:59:59.99	+20:00:00.0	A	1.012	180.0	14:25:06.6	0.0	U	RGO	1 x 1	
234292	Bias	0:00:00.00	+00:00:00.0	A	1.001	180.0	18:22:34.9	0.0	B	Kitt Peak	1 x 1	
234293	Bias	0:00:00.00	+00:00:00.0	A	1.001	180.0	18:23:14.9	0.0	U	RGO	1 x 1	
234294	Bias	0:00:00.00	+00:00:00.0	A	1.001	180.0	18:23:55.1	0.0	U	RGO	1 x 1	
234295	Bias	0:00:00.00	+00:00:00.0	A	1.001	180.0	18:24:34.2	0.0	U	RGO	1 x 1	
234296	Bias	0:00:00.00	+00:00:00.0	A	1.001	180.0	18:25:13.2	0.0	U	RGO	1 x 1	
234297	Bias	0:00:00.00	+00:00:00.0	A	1.001	180.0	18:31:07.1	0.0	U	RGO	1 x 1	
234298	Bias	0:00:00.00	+00:00:00.0	A	1.001	180.0	18:31:46.1	0.0	U	RGO	1 x 1	
234299	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.307	180.0	18:32:25.1	0.0	U	RGO	1 x 1	
234300	Bias	22:58:00.00	+00:04:59.8	J2000.00	1.575	180.0	18:33:04.4	0.0	U	RGO	1 x 1	
234301	Bias	22:58:00.00	+00:04:59.9	J2000.00	1.571	180.0	18:33:43.3	0.0	U	RGO	1 x 1	
234302	U twi	22:58:00.00	+00:05:00.0	J2000.00	1.545	180.0	18:37:50.6	2.3	U	RGO	1 x 1	
234303	U twi	22:58:01.33	+00:05:20.0	J2000.00	1.535	180.0	18:39:25.2	1.0	U	RGO	1 x 1	
234304	U twi	22:58:02.66	+00:05:40.0	J2000.00	1.526	180.0	18:40:58.7	1.1	U	RGO	1 x 1	
234305	U twi	22:58:04.00	+00:06:00.0	J2000.00	1.515	180.0	18:42:44.3	2.1	U	RGO	1 x 1	
234306	U twi	22:58:05.33	+00:06:19.9	J2000.00	1.507	180.0	18:44:11.1	3.1	U	RGO	1 x 1	
234307	U twi	22:58:06.66	+00:06:39.9	J2000.00	1.499	180.0	18:45:32.9	4.1	U	RGO	1 x 1	
234308	U twi	22:58:07.99	+00:07:00.0	J2000.00	1.493	180.0	18:46:46.8	5.1	U	RGO	1 x 1	
234309	U twi	22:58:09.33	+00:07:20.0	J2000.00	1.486	180.0	18:48:01.7	7.1	U	RGO	1 x 1	
234310	U twi	22:57:58.66	+00:04:40.0	J2000.00	1.477	180.0	18:49:33.8	10.1	U	RGO	1 x 1	
234311	U twi	22:57:57.33	+00:04:20.0	J2000.00	1.470	180.0	18:50:56.0	15.1	U	RGO	1 x 1	
234312	Focus run	21:42:04.80	+00:21:42.0	J2000.00	1.188	180.0	19:06:50.8	30.1	U	RGO	1 x 1	45.9,0.05,9
234313	KPNO-B SA113 5s	21:42:04.80	+00:19:12.0	J2000.00	1.181	180.0	19:09:02.8	10.1	B	Kitt Peak	1 x 1	
234314	KPNO-B SA113 5s	21:42:06.13	+00:19:32.0	J2000.00	1.177	180.0	19:11:33.0	5.1	B	Kitt Peak	1 x 1	
234315	Z SA113 5s	21:42:04.80	+00:19:11.9	J2000.00	1.175	180.0	19:13:22.3	5.1	z	Gunn	1 x 1	
234316	Z SA113 10s	21:42:06.13	+00:19:32.0	J2000.00	1.172	180.0	19:15:22.8	10.1	z	Gunn	1 x 1	
234317	r SA113 3s	21:42:04.79	+00:19:12.0	J2000.00	1.171	180.0	19:16:36.4	3.1	i	Sloan	1 x 1	i not r
234318	r SA113 5s	21:42:06.12	+00:19:31.9	J2000.00	1.169	180.0	19:17:43.8	5.1	r	Sloan	1 x 1	
234320	i SA113 5s	21:42:06.13	+00:19:31.9	J2000.00	1.167	180.0	19:20:01.9	5.1	i	Sloan	1 x 1	
234321	U SA113 60s	21:42:04.80	+00:19:12.0	J2000.00	1.164	180.0	19:22:05.1	60.0	U	RGO	1 x 1	
234322	U SA113 120s	21:42:06.13	+00:19:32.0	J2000.00	1.160	180.0	19:24:42.4	120.0	U	RGO	1 x 1	
234323	r SA113 3s	21:42:05.46	+00:19:22.0	J2000.00	1.158	180.0	19:27:51.0	3.1	r	Sloan	1 x 1	
234324	SA22 U	22:17:49.33	+00:26:48.9	J2000.00	1.189	180.0	19:31:08.5	898.7	U	RGO	1 x 1	
234325	SA22 U	22:17:49.33	+00:26:48.9	J2000.00	1.165	180.0	19:48:12.5	899.1	U	RGO	1 x 1	trailed,same pos
234326	SA22 U	22:17:49.33	+00:26:49.0	J2000.00	1.146	180.0	20:08:56.4	899.2	U	RGO	1 x 1	satellite
234328	SA22 U	22:17:49.33	+00:26:49.0	J2000.00	1.136	180.0	20:33:01.8	899.0	U	RGO	1 x 1	
234329	SA22 U	22:17:49.33	+00:26:49.0	J2000.00	1.137	180.0	20:52:19.6	898.6	U	RGO	1 x 1	
234330	SA22 U	22:17:49.33	+00:26:49.0	J2000.00	1.147	180.0	21:12:20.6	899.1	U	RGO	1 x 1	
234331	SA22 U	22:17:49.33	+00:26:48.9	J2000.00	1.164	180.0	21:30:50.1	899.2	U	RGO	1 x 1	
234332	SA22 U	22:17:49.32	+00:26:49.0	J2000.00	1.190	180.0	21:49:49.2	899.3	U	RGO	1 x 1	
234333	SA22 U	22:17:49.33	+00:26:48.9	J2000.00	1.227	180.0	22:08:54.4	899.1	U	RGO	1 x 1	
234334	SA22 U	22:17:49.32	+00:26:48.9	J2000.00	1.275	180.0	22:28:04.4	899.1	U	RGO	1 x 1	
234335	M31-microfld1	0:43:59.99	+41:34:00.1	J2000.00	1.029	180.0	22:46:38.5	319.8	r	Sloan	1 x 1	
234336	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.027	180.0	22:53:18.9	319.7	r	Sloan	1 x 1	
234337	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.026	180.0	22:59:60.0	319.7	i	Sloan	1 x 1	
234338	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.026	180.0	23:06:44.9	319.8	i	Sloan	1 x 1	
234339	M31-microfld2	0:21:35.00	+20:29:07.4	J2000.00	1.023	180.0	23:14:30.2	319.7	r	Sloan	1 x 1	
234340	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.024	180.0	23:21:11.3	319.7	r	Sloan	1 x 1	
234341	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.025	180.0	23:27:51.6	319.8	i	Sloan	1 x 1	
234342	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.027	180.0	23:34:32.7	319.9	i	Sloan	1 x 1	
234343	r SA92 3s	0:54:47.99	+00:41:59.8	J2000.00	1.136	180.0	23:42:08.9	3.1	i	Sloan	1 x 1	i not r;
234344	i SA92 5s	0:54:49.35	+00:42:19.9	J2000.00	1.137	180.0	23:43:16.7	5.1	i	Sloan	1 x 1	
234345	r SA92 3s	0:54:48.00	+00:41:59.9	J2000.00	1.137	180.0	23:44:32.8	3.1	r	Sloan	1 x 1	

234346	r SA92 5s	0:54:49.32	+00:42:20.0	J2000.00	1.138	180.0	23:45:41.5	5.1	r	Sloan		1 x 1	
234347	Z SA92 5s	0:54:48.00	+00:42:00.0	J2000.00	1.139	180.0	23:46:59.5	5.1	z	Gunn		1 x 1	
234348	Z SA92 10s	0:54:49.32	+00:42:19.8	J2000.00	1.139	180.0	23:48:26.5	10.1	z	Gunn		1 x 1	
234349	U SA92 30s	0:54:48.00	+00:42:00.0	J2000.00	1.140	180.0	23:49:50.0	30.1	U	RGO		1 x 1	
234350	U SA92 60s	0:54:49.33	+00:42:20.0	J2000.00	1.141	180.0	23:51:24.4	60.1	U	RGO		1 x 1	
234351	KPNO-B SA92 5s	0:54:47.99	+00:42:00.1	J2000.00	1.142	180.0	23:53:26.5	5.1	B	Kitt Peak		1 x 1	
234352	KPNO-B SA92 10s	0:54:49.33	+00:42:19.9	J2000.00	1.143	180.0	23:54:35.5	10.1	B	Kitt Peak		1 x 1	
234353	i SA92 3s	0:54:50.66	+00:42:40.0	J2000.00	1.144	180.0	23:55:54.3	3.1	i	Sloan		1 x 1	
234354	Focus run	2:10:02.70	-04:31:06.9	J2000.00	1.213	180.0	00:03:37.8	20.1	U	RGO		1 x 1	
234355	NOAO U	2:10:02.70	-04:33:37.2	J2000.00	1.203	180.0	00:06:26.4	1198.6	U	RGO		1 x 1	
234356	NOAO U	2:10:02.69	-04:33:37.0	J2000.00	1.197	180.0	00:29:12.9	1198.8	U	RGO		1 x 1	
234357	NOAO U	2:10:02.70	-04:33:37.0	J2000.00	1.203	180.0	00:51:57.9	1198.6	U	RGO		1 x 1	
234358	NOAO U	2:10:02.69	-04:33:36.8	J2000.00	1.222	180.0	01:14:39.7	1198.7	U	RGO		1 x 1	
234359	NOAO U	2:10:02.69	-04:33:36.9	J2000.00	1.254	180.0	01:37:21.6	1198.6	U	RGO		1 x 1	
234360	NOAO U	2:10:02.70	-04:33:36.9	J2000.00	1.303	180.0	02:00:03.0	1198.7	U	RGO		1 x 1	
234361	NOAO U	2:10:02.70	-04:33:37.0	J2000.00	1.370	180.0	02:22:44.5	1199.1	U	RGO		1 x 1	
234362	NOAO U	2:10:02.70	-04:33:37.1	J2000.00	1.459	180.0	02:45:24.6	1198.4	U	RGO		1 x 1	
234363	NOAO U	2:10:02.70	-04:33:37.1	J2000.00	1.579	180.0	03:08:06.0	1198.5	U	RGO		1 x 1	
234364	Focus run	3:41:13.62	+22:12:25.1	J2000.00	1.066	180.0	03:35:47.5	5.1	i	Sloan		1 x 1	
234365	wfsj0347+2400-iz45	3:41:13.63	+22:09:54.7	J2000.00	1.078	180.0	03:37:46.8	599.6	i	Sloan		1 x 1	
234366	wfsj0347+2400-iz46	3:39:17.11	+22:09:55.2	J2000.00	1.112	180.0	03:54:10.3	599.5	i	Sloan		1 x 1	
234367	wfsj0347+2400-iz46	3:39:17.11	+22:09:55.0	J2000.00	1.136	180.0	04:05:15.7	599.5	z	Gunn		1 x 1	
234369	wfsj0347+2400-iz49	3:44:20.00	+21:27:00.1	J2000.00	1.162	180.0	04:19:35.2	599.4	i	Sloan		1 x 1	
234370	wfsj0347+2400-iz49	3:44:20.00	+21:26:59.9	J2000.00	1.192	180.0	04:30:40.2	599.4	z	Gunn		1 x 1	
234373	wfsj0347+2400-iz51	1:58:22.00	+12:27:29.9	J2000.00	1.203	180.0	04:51:25.2	599.5	i	Sloan		1 x 1	
234374	wfsj0347+2400-iz51	3:56:44.00	+24:55:00.1	J2000.00	1.240	180.0	05:02:29.6	599.4	z	Gunn		1 x 1	
234375	wfsj0347+2400-iz52	3:47:48.00	+26:15:37.1	J2000.00	1.317	180.0	05:15:18.0	599.5	i	Sloan		1 x 1	
234376	wfsj0347+2400-iz52	3:47:47.99	+26:15:37.2	J2000.00	1.368	180.0	05:26:27.4	599.4	z	Gunn		1 x 1	
234377	wfsj0347+2400-iz55	3:47:48.00	+26:55:37.2	J2000.00	1.441	180.0	05:41:09.5	599.4	i	Sloan		1 x 1	
234378	wfsj0347+2400-iz55	3:47:47.99	+26:55:37.2	J2000.00	1.507	180.0	05:52:15.0	599.5	z	Gunn		1 x 1	
234379	wfsj0347+2400-iz56	3:39:59.99	+25:47:00.3	J2000.00	1.664	180.0	06:04:35.5	599.3	i	Sloan		1 x 1	
234380	wfsj0347+2400-iz56	3:40:00.00	+25:46:59.9	J2000.00	1.763	180.0	06:15:39.8	599.5	z	Gunn		1 x 1	
234381	Z SA98-670 5s	6:52:12.00	-00:19:17.0	J2000.00	1.196	180.0	06:28:06.6	5.1	z	Gunn		1 x 1	trailed
234382	Z SA98-670 10s	6:52:13.32	-00:18:57.0	J2000.00	1.198	180.0	06:29:16.9	10.1	z	Gunn		1 x 1	
234383	Z SA98-670 5s	6:52:10.65	-00:19:37.0	J2000.00	1.200	180.0	06:30:34.6	5.1	z	Gunn		1 x 1	
234384	i SA98-670 5s	6:52:12.00	-00:19:16.9	J2000.00	1.203	180.0	06:32:15.1	5.1	i	Sloan		1 x 1	
234385	i SA98-670 3s	6:52:13.35	-00:18:57.0	J2000.00	1.205	180.0	06:33:24.6	3.1	i	Sloan		1 x 1	
234386	r SA98-670 3s	6:52:12.00	-00:19:17.0	J2000.00	1.208	180.0	06:35:13.6	3.1	r	Sloan		1 x 1	
234387	r SA98-670 5s	6:52:13.35	-00:18:57.1	J2000.00	1.210	180.0	06:36:24.8	5.1	r	Sloan		1 x 1	
234388	KPNO-B SA98-670 5s	6:52:12.00	-00:19:17.0	J2000.00	1.213	180.0	06:38:05.6	4.6	B	Kitt Peak		1 x 1	
234389	KPNO-B SA98-670 10	6:52:13.33	-00:18:56.9	J2000.00	1.215	180.0	06:39:17.2	10.1	B	Kitt Peak		1 x 1	
234390	U SA98-670 30s	6:52:12.00	-00:19:16.9	J2000.00	1.219	180.0	06:40:51.9	30.1	U	RGO		1 x 1	
234391	U SA98-670 60s	6:52:13.33	-00:18:57.0	J2000.00	1.223	180.0	06:42:28.5	60.1	U	RGO		1 x 1	
234392	U SA98-670 60s	6:52:14.66	-00:18:37.0	J2000.00	1.227	180.0	06:44:33.9	60.1	U	RGO		1 x 1	
234393	U twi	8:01:00.00	+49:59:59.9	J2000.00	1.075	180.0	06:49:29.2	60.1	U	RGO		1 x 1	
234394	U twi	8:01:03.11	+50:00:29.8	J2000.00	1.077	180.0	06:53:48.2	60.0	U	RGO		1 x 1	
234395	U twi	8:01:06.22	+50:00:59.9	J2000.00	1.077	180.0	06:56:19.9	45.1	U	RGO		1 x 1	
234396	U twi	8:01:09.33	+50:01:30.0	J2000.00	1.078	180.0	06:58:34.8	30.1	U	RGO		1 x 1	
234397	U twi	8:00:56.88	+49:59:29.9	J2000.00	1.079	180.0	07:00:57.5	20.1	U	RGO		1 x 1	
234398	KPNO-B twi	8:01:00.00	+50:00:00.0	J2000.00	1.080	180.0	07:02:32.1	20.1	B	Kitt Peak		1 x 1	saturated
234399	KPNO-B twi	8:01:03.11	+50:00:30.0	J2000.00	1.080	180.0	07:04:08.3	10.1	B	Kitt Peak		1 x 1	saturated
234400	KPNO-B twi	8:01:06.22	+50:01:00.0	J2000.00	1.081	180.0	07:05:33.4	1.2	B	Kitt Peak		1 x 1	
234401	Z twi	8:01:00.00	+49:59:59.9	J2000.00	1.082	180.0	07:07:01.2	3.1	z	Gunn		1 x 1	
234402	Z twi	8:01:03.11	+50:00:30.0	J2000.00	1.082	180.0	07:08:17.2	1.1	z	Gunn		1 x 1	high counts
234403	Z twi	8:01:06.22	+50:00:59.9	J2000.00	1.083	180.0	07:09:33.7	1.3	z	Gunn		1 x 1	
234404	Z twi	8:01:09.33	+50:01:29.9	J2000.00	1.084	180.0	07:10:51.4	1.2	z	Gunn		1 x 1	
234405	Z twi	8:00:56.89	+49:59:29.9	J2000.00	1.085	180.0	07:13:16.9	1.0	z	Gunn		1 x 1	
234406	Z twi	8:00:53.78	+49:59:00.0	J2000.00	1.086	180.0	07:14:54.4	0.5	z	Gunn		1 x 1	
234407	Z twi	8:00:50.67	+49:58:29.8	J2000.00	1.086	180.0	07:16:01.6	0.5	z	Gunn		1 x 1	
234408	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	07:22:26.5	0.0	U	RGO	1	1 x 1	
234409	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	07:23:05.7	0.0	U	RGO	1	1 x 1	
234410	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	07:23:45.1	0.0	U	RGO	1	1 x 1	

234411	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	07:24:24.5	0.0	U	RGO	1	1 x 1
234412	Bias	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	07:25:03.9	0.0	U	RGO	1	1 x 1
234413	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:39:59.2	0.0	U	RGO	1	1 x 1
234414	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:40:41.0	0.0	U	RGO	1	1 x 1
234415	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:41:20.9	0.0	U	RGO	1	1 x 1
234416	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:41:60.1	0.0	U	RGO	1	1 x 1
234417	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:42:39.2	0.0	U	RGO	1	1 x 1
234418	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:43:58.8	0.0	U	RGO	1	1 x 1
234419	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:44:37.9	0.0	U	RGO	1	1 x 1
234420	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:45:18.5	0.0	U	RGO	1	1 x 1
234421	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:45:57.6	0.0	U	RGO	1	1 x 1
234422	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:46:36.8	0.0	U	RGO	1	1 x 1
234423	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:47:54.2	0.0	U	RGO	1	1 x 1
234424	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:48:33.3	0.0	U	RGO	1	1 x 1
234425	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:49:14.3	0.0	U	RGO	1	1 x 1
234426	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:49:53.4	0.0	U	RGO	1	1 x 1
234427	Bias	0:00:00.00	+00:00:00.0	J2000.00	4.598	180.0	07:50:32.4	0.0	U	RGO	1	1 x 1