INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

```
TELESCOPE:            INT
DATE:                 20000312
TAPE NR:              INTD4324
OBSERVER:             J. Haynes, J. Davies
PROGRAMME:            WFS
PATT/CAT REF.:        WFS09
TELESCOPE OPERATOR:
SUPPORT ASTRONOMER:

TELESCOPE FOCUS:      46.05 mm
CALIBRATE RESULTS:    not specified

INSTRUMENT:           WFC

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

WEATHER:              (1st half) fair
                      (2nd half) fair
CLOUD COVER (%):      (1st half) 80
                      (2nd half) 30
DUST (0-2):           (1st half) 0
                      (2nd half) 0
SEEING (arcsec):      (1st half) 1.0
                      (2nd half) 2.0

DOME OPENED (UT):     19:00

TEMPERATURE, HUMIDITY and WIND:
   UT   Temp  Hum%  Wspd  Wdir
20:00    9.4    29    26   144
21:00    9.2    29    32   154
22:00    9.1    29    36   175
23:00    8.9    30    25   218
00:00    8.8    30    28   151
01:00    8.8    29    29   150
02:00    8.6    31    37   153
03:00    8.5    30    36   117
04:00    8.5    29    37   159
05:00    8.4    29    26   209
06:00    8.1    30    35   156
07:00    7.9    31    31   166

SUNSET(UT)            19:25
EVENING TWILIGHT(UT)  20:36
MORNING TWILIGHT(UT)  06:05
SUNRISE(UT)           07:16
MOON'S QUARTER (1-4)  1
DISK % OF ILLUM.      47
DARK TIME             09:29
TWILIGHT TIME         02:22
MOONRISE(UT)          No moonrise within sunset-sunrise
MOONSET(UT)           01:57

TIME LOST(WEATHER):   0:00
TIME LOST(TECHNICAL): 00:00
TIME LOST(OTHER):     00:00

COMMENTS:
  high cloud
```

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
211264	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.1	18:14:46.6	0.0	U	RGO		
211265	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.1	19:12:38.7	0.0	B	Kitt Peak		
211266	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.1	19:13:24.8	0.0	B	Kitt Peak		
211267	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.1	19:14:15.5	0.0	B	Kitt Peak		
211268	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.140	180.1	19:30:39.8	1.1	U	RGO		
211269	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.141	180.1	19:32:40.2	2.6	U	RGO		
211270	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.147	180.1	19:38:51.4	2.1	z	Gunn		
211271	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.150	180.1	19:40:55.5	5.1	z	Gunn		
211272	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.154	180.1	19:45:21.3	7.1	B	Kitt Peak		
211273	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.156	180.1	19:47:10.7	12.1	B	Kitt Peak		
211274	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.159	180.1	19:49:36.3	20.1	r	Sloan		
211275	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.162	180.1	19:51:30.8	30.1	r	Sloan		
211276	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.165	180.1	19:54:10.7	45.1	g	Sloan		
211277	Flat field	4:25:45.99	+54:09:02.9	B1950.00	1.168	180.1	19:56:23.4	70.0	g	Sloan		
211278	Focus run	3:54:30.99	+00:32:04.9	J2000.00	1.400	180.1	20:08:38.3	10.1	g	Sloan		
211279	sa98-670 g	6:52:11.99	-00:19:17.0	J2000.00	1.149	180.1	20:19:54.6	10.1	g	Sloan		
211280	sa98-670 r	6:52:12.00	-00:19:17.0	J2000.00	1.148	180.1	20:21:08.0	10.1	r	Sloan		
211281	sa98-670 i	6:52:11.99	-00:19:16.9	J2000.00	1.148	180.1	20:22:21.0	10.1	i	Sloan		
211282	sa98-670 Z	6:52:11.99	-00:19:17.0	J2000.00	1.147	180.1	20:23:35.9	20.1	z	Gunn		
211283	sa98-670 KPB	6:52:12.00	-00:19:16.9	J2000.00	1.147	180.1	20:24:58.9	10.1	B	Kitt Peak		
211284	sa98-670 U	6:52:12.00	-00:19:17.0	J2000.00	1.146	180.1	20:26:11.9	60.1	U	RGO		
211285	sa101-427 g	9:57:25.99	-00:17:16.0	J2000.00	1.748	180.1	20:29:04.5	10.1	g	Sloan		
211286	sa101-427 r	9:57:26.00	-00:17:16.0	J2000.00	1.738	180.1	20:30:18.3	10.1	r	Sloan		
211287	sa101-427 i	9:57:26.00	-00:17:16.0	J2000.00	1.727	180.1	20:31:31.2	10.1	i	Sloan		
211288	sa101-427 Z	9:57:26.00	-00:17:15.9	J2000.00	1.716	180.1	20:32:43.8	20.1	z	Gunn		
211289	sa101-427 KPB	9:57:26.00	-00:17:15.9	J2000.00	1.705	180.1	20:34:08.5	10.1	B	Kitt Peak		
211290	sa101-427 U	9:57:26.00	-00:17:16.0	J2000.00	1.692	180.1	20:35:20.6	59.6	U	RGO		
211291	wfsj0801+4019_041	8:05:38.09	+40:19:00.0	J2000.00	1.048	180.1	20:45:41.1	599.4	r	Sloan		
211292	wfsj0801+4019_041	8:05:38.09	+40:19:00.0	J2000.00	1.039	180.1	20:56:56.0	599.6	g	Sloan		
211293	wfsj0801+4019_042	8:05:39.19	+40:38:59.9	J2000.00	1.032	180.1	21:09:51.2	599.5	r	Sloan		
211294	wfsj0801+4019_042	8:05:39.20	+40:39:00.1	J2000.00	1.027	180.1	21:21:07.1	599.4	g	Sloan		
211295	wfsj0801+4019_040	8:05:36.90	+39:59:00.0	J2000.00	1.020	180.1	21:39:31.8	599.4	r	Sloan		
211296	wfsj0801+4019_040	8:05:36.89	+39:59:00.0	J2000.00	1.020	180.1	21:50:41.7	598.8	g	Sloan		
211297	wfsj0801+4019_041	8:05:38.09	+40:18:59.9	J2000.00	1.022	180.1	22:03:34.2	599.4	r	Sloan		
211298	wfsj0801+4019_041	8:05:38.10	+40:19:00.0	J2000.00	1.025	180.1	22:14:51.5	598.9	g	Sloan		
211299	wfsj0801+4019_042	8:05:39.20	+40:38:59.9	J2000.00	1.032	180.1	22:27:49.7	599.5	r	Sloan		
211300	wfsj0801+4019_042	8:05:39.20	+40:38:59.9	J2000.00	1.039	180.1	22:39:03.3	599.5	g	Sloan		
211301	sa101-427 g	9:57:26.00	-00:17:15.7	J2000.00	1.173	180.1	22:54:07.3	10.1	g	Sloan		
211302	sa101-427 r	9:57:26.00	-00:17:15.9	J2000.00	1.171	180.1	22:55:20.6	10.2	r	Sloan		
211303	sa101-427 i	9:57:26.00	-00:17:16.0	J2000.00	1.170	180.1	22:56:33.9	10.1	i	Sloan		
211304	sa101-427 Z	9:57:26.00	-00:17:16.0	J2000.00	1.169	180.1	22:57:47.0	20.1	z	Gunn		
211305	sa101-427 KPB	9:57:25.99	-00:17:16.0	J2000.00	1.167	180.1	22:59:10.0	10.1	B	Kitt Peak		
211306	sa101-427 U	9:57:25.99	-00:17:15.9	J2000.00	1.165	180.1	23:00:23.3	60.0	U	RGO		
211307	sa98-670 g	6:52:11.99	-00:19:16.9	J2000.00	1.412	180.1	23:03:42.3	10.1	g	Sloan		
211308	sa98-670 r	6:52:12.00	-00:19:17.0	J2000.00	1.418	180.1	23:04:58.4	10.1	r	Sloan		
211309	sa98-670 i	6:52:12.00	-00:19:16.9	J2000.00	1.424	180.1	23:06:13.6	10.1	i	Sloan		
211310	sa98-670 Z	6:52:11.99	-00:19:16.9	J2000.00	1.430	180.1	23:07:28.2	20.1	z	Gunn		
211311	sa98-670 KPB	6:52:12.00	-00:19:16.9	J2000.00	1.436	180.1	23:08:53.8	10.1	B	Kitt Peak		
211312	sa98-670 U	6:52:12.00	-00:19:16.9	J2000.00	1.445	180.1	23:10:11.0	60.0	U	RGO		
211313	wfsngc013	10:24:00.00	+00:00:00.0	J2000.00	1.169	180.1	23:14:58.8	749.3	B	Kitt Peak		
211314	wfsngc014	10:25:59.99	-00:00:00.0	J2000.00	1.155	180.1	23:30:45.7	749.4	B	Kitt Peak		
211315	wfsngc016	10:30:00.00	-00:00:00.0	J2000.00	1.147	180.1	23:46:25.9	749.3	B	Kitt Peak		
211316	wfsngc018	10:33:59.99	-00:00:00.1	J2000.00	1.143	180.1	00:01:59.6	749.4	B	Kitt Peak		
211317	wfsngc019	10:36:00.00	-00:00:00.0	J2000.00	1.141	180.1	00:17:31.3	749.3	B	Kitt Peak		
211318	wfsngc020	10:37:59.99	+00:00:00.0	J2000.00	1.143	180.1	00:33:04.4	749.3	B	Kitt Peak		
211319	wfsngc026	10:50:00.00	-00:00:00.0	J2000.00	1.144	180.1	00:50:21.5	748.9	B	Kitt Peak		
211320	wfsngc027	10:51:59.99	-00:00:00.0	J2000.00	1.152	180.1	01:05:55.0	749.3	B	Kitt Peak		
211321	wfsngc028	10:54:00.00	-00:00:00.1	J2000.00	1.164	180.1	01:21:33.3	749.2	B	Kitt Peak		
211322	wfsngc029	10:55:59.99	+00:00:00.1	J2000.00	1.180	180.1	01:37:03.8	749.2	B	Kitt Peak		
211323	wfsngc031	11:00:00.00	+00:00:00.0	J2000.00	1.198	180.1	01:52:35.3	749.3	B	Kitt Peak		

211324	wfsngc032	11:02:00.00	+00:00:00.0	J2000.00	1.223	180.1	02:08:07.5	748.9	B	Kitt Peak
211325	sa104-334 g	12:42:21.00	-00:40:28.0	J2000.00	1.148	180.1	02:22:55.6	9.6	g	Sloan
211326	sa104-334 r	12:42:21.00	-00:40:28.0	J2000.00	1.148	180.1	02:24:11.7	10.1	r	Sloan
211327	sa104-334 i	12:42:21.00	-00:40:27.9	J2000.00	1.148	180.1	02:25:25.2	10.1	i	Sloan
211328	sa104-334 Z	12:42:20.99	-00:40:28.0	J2000.00	1.148	180.1	02:26:41.3	20.1	z	Gunn
211329	sa104-334 KPB	12:42:21.00	-00:40:28.0	J2000.00	1.148	180.1	02:28:04.6	10.1	B	Kitt Peak
211330	sa104-334 U	12:42:21.00	-00:40:28.0	J2000.00	1.148	180.1	02:29:18.3	60.1	U	RGO
211331	VIRGO615S	12:18:23.59	+19:44:00.1	J2000.00	1.026	180.1	02:35:42.4	1198.8	z	Gunn
211332	VIRGO615S	12:18:23.60	+19:43:59.9	J2000.00	1.043	180.1	02:56:31.1	1198.9	z	Gunn
211333	VIRGO615S	12:18:23.60	+19:43:59.9	J2000.00	1.069	180.1	03:17:20.6	1198.2	z	Gunn
211334	VIRGO609S	6:09:13.30	+09:21:59.9	J2000.00	1.110	180.1	03:43:03.7	749.4	z	Gunn
211335	VIRGO408	12:25:05.70	+14:03:59.8	J2000.00	1.163	180.1	04:02:21.4	749.3	B	Kitt Peak
211336	VIRGO547	12:22:52.70	+16:24:00.0	J2000.00	1.215	180.1	04:24:36.4	749.3	B	Kitt Peak
211337	VIRGO545	12:18:34.10	+16:23:59.8	J2000.00	1.407	180.1	05:03:06.8	1198.6	z	Gunn
211338	VIRGO545	12:18:34.10	+16:24:00.0	J2000.00	1.533	180.1	05:23:55.3	1198.9	z	Gunn
211339	VIRGO545	12:18:34.09	+16:23:59.9	J2000.00	1.694	180.1	05:44:44.7	1198.6	z	Gunn
211340	sa104-335 g	12:42:20.90	-00:33:08.9	J2000.00	1.986	180.1	06:07:47.8	10.1	g	Sloan
211341	sa104-335 r	12:42:20.89	-00:33:08.8	J2000.00	2.003	180.1	06:09:10.5	10.1	r	Sloan
211342	sa104-335 i	12:42:20.90	-00:33:08.9	J2000.00	2.019	180.1	06:10:28.9	10.1	i	Sloan
211343	sa104-335 Z	12:42:20.90	-00:33:09.0	J2000.00	2.038	180.1	06:11:48.6	20.1	z	Gunn
211344	sa104-335 KPB	12:42:20.90	-00:33:09.0	J2000.00	2.056	180.1	06:13:15.1	10.1	B	Kitt Peak
211345	sa104-335 U	12:42:20.90	-00:33:09.0	J2000.00	2.079	180.1	06:14:32.0	60.1	U	RGO
211346	107-612 g	15:39:35.39	-00:15:08.0	J2000.00	1.172	180.1	06:17:23.5	10.1	g	Sloan
211347	107-612 r	15:39:35.40	-00:15:08.0	J2000.00	1.174	180.1	06:18:40.4	10.1	r	Sloan
211348	107-612 i	15:39:35.40	-00:15:07.9	J2000.00	1.175	180.1	06:19:54.8	10.1	i	Sloan
211349	107-612 Z	15:39:35.40	-00:15:08.0	J2000.00	1.177	180.1	06:21:09.7	20.1	z	Gunn
211350	107-612 KPB	15:39:35.40	-00:15:08.0	J2000.00	1.179	180.1	06:22:36.6	9.6	B	Kitt Peak
211351	107-612 U	15:39:35.40	-00:15:08.1	J2000.00	1.181	180.1	06:23:51.0	60.1	U	RGO
211352	Flat field	16:47:52.49	-15:17:43.9	B1950.00	1.393	180.1	06:45:17.6	70.1	g	Sloan
211353	Flat field	16:47:52.50	-15:17:44.0	B1950.00	1.394	180.1	06:48:12.3	30.1	g	Sloan
211354	Flat field	16:47:52.50	-15:17:43.9	B1950.00	1.395	180.1	06:50:25.8	30.1	r	Sloan
211355	Flat field	16:47:52.49	-15:17:43.9	B1950.00	1.396	180.1	06:52:26.5	21.6	r	Sloan
211356	Flat field	16:47:52.50	-15:17:44.1	B1950.00	1.397	180.1	06:54:11.8	22.1	B	Kitt Peak
211357	Flat field	16:47:53.19	-15:17:34.0	B1950.00	1.398	180.1	06:56:07.5	10.1	B	Kitt Peak
211358	Flat field	16:47:52.50	-15:17:43.9	B1950.00	1.399	180.1	06:57:40.6	3.1	B	Kitt Peak
211359	Flat field	16:47:52.50	-15:17:43.9	B1950.00	1.400	180.1	06:59:11.1	6.1	z	Gunn
211360	Flat field	16:47:53.19	-15:17:34.0	B1950.00	1.401	180.1	07:00:48.9	6.1	z	Gunn