```
INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE:             INT
DATE:                  20000304
TAPE NR:               INTD4318
OBSERVER:              J. Haynes, A. Kambas
PROGRAMME:             WFS
PATT/CAT REF.:         WFS09
TELESCOPE OPERATOR:    P. Sorensen
SUPPORT ASTRONOMER:    N. Walton

TELESCOPE FOCUS:       46 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) 0
                       (2nd half) 0
DUST (0-2):            (1st half) 2
                       (2nd half) 2
SEEING (arcsec):       (1st half) 2.8
                       (2nd half) 2.0

DOME OPENED (UT):      19:00

TEMPERATURE, HUMIDITY and WIND:
   UT    Temp  Hum%  Wspd  Wdir
20:00    7.6    28    50   175
21:00    7.5    31    49   127
22:00    7.9    31    54   176
23:00    8.3    26    40   156
00:00    7.7    33    42   158
01:00    8.1    32    66   151
02:00    7.7    33    82   156
03:00    7.1    28    41   150
04:00    7.1    19    50   199
05:00    6.6    13    36   190
06:00    7.1    11    53   161
07:00    7.3    11    42   126

SUNSET(UT)             19:20
EVENING TWILIGHT(UT)   20:31
MORNING TWILIGHT(UT)   06:14
SUNRISE(UT)            07:25
MOON'S QUARTER (1-4)   4
DISK % OF ILLUM.       1
DARK TIME              09:43
TWILIGHT TIME          02:22
MOONRISE(UT)           07:07
MOONSET(UT)            No moonset within sunset-sunrise

TIME LOST(WEATHER):    1:00
TIME LOST(TECHNICAL):  00:00
TIME LOST(OTHER):      00:00

COMMENTS:
  Windy
```

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys	Channel	Binning	Comments
210646	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	16:46:24.0	0.0	U	RGO			
210647	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	16:48:12.0	0.0	U	RGO			
210648	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	16:48:58.1	0.0	U	RGO			
210649	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	16:49:45.9	0.0	U	RGO			
210650	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	16:50:33.8	0.0	U	RGO			
210651	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	16:51:22.0	0.0	U	RGO			
210652	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	16:52:08.6	0.0	U	RGO			
210653	r dome	0:00:00.00	+00:00:00.0	A	1.000	180.1	17:19:14.5	20.1	r	Sloan			
210654	r dome	0:00:00.00	+00:00:00.0	A	1.000	180.1	17:20:22.9	20.1	r	Sloan			
210655	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	17:21:45.1	0.0	r	Sloan			
210656	Bias	0:00:00.00	+00:00:00.0	A	1.000	180.1	17:22:31.5	0.0	r	Sloan			
210657	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.117	180.1	19:30:09.3	11.9	U	RGO			saturated
210658	Flat field	4:25:47.13	+54:09:13.1	B1950.00	1.121	180.1	19:36:18.2	3.5	B	Kitt Peak			
210659	Flat field	4:25:47.13	+54:08:52.8	B1950.00	1.122	180.1	19:38:03.7	5.6	B	Kitt Peak			
210660	Flat field	4:25:44.86	+54:08:53.0	B1950.00	1.123	180.1	19:39:28.6	7.6	B	Kitt Peak			
210661	Flat field	4:25:48.27	+54:08:52.9	B1950.00	1.124	180.1	19:41:13.7	13.2	B	Kitt Peak			
210662	Flat field	4:25:48.27	+54:08:43.0	B1950.00	1.125	180.1	19:43:13.3	21.1	B	Kitt Peak			
210663	Flat field	4:25:45.99	+54:09:02.9	B1950.00	1.126	180.1	19:45:07.3	23.4	g	Sloan			
210664	Flat field	4:25:46.00	+54:08:57.9	B1950.00	1.128	180.1	19:47:02.7	36.9	g	Sloan			
210665	Flat field	4:25:46.57	+54:08:58.0	B1950.00	1.130	180.1	19:49:48.1	68.2	g	Sloan			
210666	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.133	180.1	19:52:37.5	161.0	r	Sloan			
210667	sa98-670 g	6:52:12.00	-00:19:16.9	J2000.00	1.189	180.1	20:08:55.7	10.1	g	Sloan			
210668	sa98-670 r	6:52:12.00	-00:19:16.8	J2000.00	1.187	180.1	20:10:09.6	10.1	r	Sloan			
210669	sa98-670 i	6:52:12.00	-00:19:17.0	J2000.00	1.185	180.1	20:11:25.2	10.1	i	Sloan			
210670	sa98-670 Z	6:52:12.00	-00:19:17.0	J2000.00	1.183	180.1	20:12:39.5	20.1	z	Gunn			
210671	sa98-670 KPB	6:52:12.00	-00:19:16.9	J2000.00	1.182	180.1	20:14:03.9	10.1	B	Kitt Peak			
210672	sa98-670 U	6:52:11.99	-00:19:17.0	J2000.00	1.179	180.1	20:15:17.3	60.1	U	RGO			
210673	Focus run	6:52:12.00	-00:16:46.9	J2000.00	1.174	180.1	20:20:44.1	10.1	B	Kitt Peak			
210674	Focus run	3:54:30.99	+00:31:35.0	J2000.00	1.364	180.1	20:31:10.4	10.1	B	Kitt Peak			
210675	wfsj0801+4019_022	8:00:23.70	+39:59:00.0	J2000.00	1.079	180.1	20:42:34.0	599.4	r	Sloan			
210676	wfsj0801+4019_022	8:00:23.70	+39:58:59.9	J2000.00	1.065	180.1	20:53:48.5	599.5	g	Sloan			
210677	wfsj0801+4019_023	8:00:23.30	+40:18:59.8	J2000.00	1.052	180.1	21:06:49.0	599.4	r	Sloan			
210678	wfsj0801+4019_023	8:00:23.29	+40:18:59.9	J2000.00	1.043	180.1	21:18:05.1	599.4	g	Sloan			
210679	wfsngc001	9:59:59.99	+00:00:00.0	J2000.00	1.474	180.1	21:36:04.4	749.2	B	Kitt Peak			
210680	wfsngc002	10:01:59.99	-00:00:00.0	J2000.00	1.409	180.1	21:51:22.6	749.1	B	Kitt Peak			autoguiding off
210681	wfsngc003	10:03:59.99	-00:00:00.0	J2000.00	1.355	180.1	22:06:24.6	748.8	B	Kitt Peak			autoguiding off
210682	wfsngc004	10:06:00.00	+00:00:00.1	J2000.00	1.309	180.1	22:21:31.0	749.1	B	Kitt Peak			autoguiding off
210683	wfsngc006	10:09:59.99	+00:00:00.0	J2000.00	1.276	180.1	22:36:33.8	749.4	B	Kitt Peak			autoguiding off
210685	wfsngc001	10:00:00.00	-00:00:00.0	J2000.00	1.196	180.1	23:02:56.4	749.4	B	Kitt Peak			
210686	wfsngc002	10:02:00.00	-00:00:00.0	J2000.00	1.176	180.1	23:18:45.7	749.4	B	Kitt Peak			
210687	sa98-670 g	6:52:11.99	-00:19:17.0	J2000.00	1.411	180.1	23:34:45.5	10.1	g	Sloan			
210688	sa98-670 r	6:52:12.00	-00:19:16.9	J2000.00	1.416	180.1	23:35:58.9	10.1	r	Sloan			
210689	sa98-670 i	6:52:12.00	-00:19:17.0	J2000.00	1.422	180.1	23:37:16.0	10.1	i	Sloan			
210690	sa98-670 Z	6:52:12.00	-00:19:17.1	J2000.00	1.428	180.1	23:38:30.0	20.1	z	Gunn			
210691	sa98-670 KPB	6:52:12.00	-00:19:17.1	J2000.00	1.434	180.1	23:39:53.2	10.1	B	Kitt Peak			
210692	sa98-670 U	6:52:12.00	-00:19:17.0	J2000.00	1.442	180.1	23:41:06.3	60.0	U	RGO			
210693	VIRGO345	12:18:45.30	+13:03:59.8	J2000.00	1.316	180.1	23:50:29.3	749.3	B	Kitt Peak			
210694	VIRGO346	12:20:52.60	+13:03:59.7	J2000.00	1.259	180.1	00:07:19.0	749.3	B	Kitt Peak			
210695	VIRGO365	12:18:44.30	+13:23:59.5	J2000.00	1.200	180.1	00:22:59.5	749.2	B	Kitt Peak			
210696	VIRGO366	6:10:25.90	+06:41:59.9	J2000.00	1.163	180.1	00:39:10.1	749.3	B	Kitt Peak			
210697	VIRGO385B	12:18:43.29	+13:44:59.9	J2000.00	1.101	180.1	01:06:34.5	749.2	B	Kitt Peak			moved 1’ in dec
210698	104-335 g	12:42:20.89	-00:33:08.9	J2000.00	1.244	180.1	01:30:21.2	10.1	g	Sloan			
210699	104-335 r	12:42:20.89	-00:33:08.8	J2000.00	1.241	180.1	01:31:38.3	10.1	r	Sloan			
210700	104-335 i	12:42:20.90	-00:33:09.3	J2000.00	1.238	180.1	01:32:53.9	10.1	i	Sloan			
210701	104-335 Z	6:21:10.44	-00:16:34.2	J2000.00	1.235	180.1	01:34:07.2	20.1	z	Gunn			
210702	104-335 KPB	12:42:20.90	-00:33:09.0	J2000.00	1.232	180.1	01:35:30.4	10.1	B	Kitt Peak			
210703	104-335 U	12:42:20.90	-00:33:08.8	J2000.00	1.229	180.1	01:36:44.5	60.0	U	RGO			
210704	VIRGO405	12:18:42.20	+14:04:00.3	J2000.00	1.042	180.1	03:02:06.3	749.3	B	Kitt Peak			
210705	VIRGO406	12:20:50.09	+14:03:59.7	J2000.00	1.051	180.1	03:18:12.8	749.3	B	Kitt Peak			
210706	VIRGO405	12:18:42.20	+14:04:00.0	J2000.00	1.074	180.1	03:38:30.9	749.1	B	Kitt Peak			

210707	VIRGO386B	12:20:50.90	+13:42:29.9	J2000.00	1.101	180.1	03:57:48.7	749.4	B	Kitt Peak
210708	VIRGO425	12:18:41.20	+14:24:00.0	J2000.00	1.129	180.1	04:13:32.4	749.1	B	Kitt Peak
210709	VIRGO426	12:20:49.20	+14:23:59.9	J2000.00	1.162	180.1	04:30:01.9	749.2	B	Kitt Peak
210710	VIRGO445	12:18:40.10	+14:43:59.9	J2000.00	1.208	180.1	04:45:44.9	749.3	B	Kitt Peak
210711	VIRGO446	12:20:48.29	+14:43:59.9	J2000.00	1.261	180.1	05:03:58.4	749.3	B	Kitt Peak
210712	VIRGO465	12:18:38.90	+15:04:00.0	J2000.00	1.326	180.1	05:19:01.4	749.3	B	Kitt Peak
210713	VIRGO485	12:18:37.80	+15:24:00.1	J2000.00	1.397	180.1	05:34:36.2	749.1	B	Kitt Peak
210714	VIRGO486	12:20:46.40	+15:24:00.1	J2000.00	1.467	180.1	05:49:15.8	749.4	B	Kitt Peak
210715	VIRGO505	12:18:36.60	+15:44:00.1	J2000.00	1.575	180.1	06:04:07.2	749.4	B	Kitt Peak
210716	110-361 g	18:42:45.00	+00:08:05.0	J2000.00	1.487	180.1	06:20:37.6	10.1	g	Sloan
210717	110-361 r	18:42:45.00	+00:08:05.0	J2000.00	1.480	180.1	06:21:52.6	10.1	r	Sloan
210718	110-361 i	18:42:45.00	+00:08:04.9	J2000.00	1.473	180.1	06:23:07.1	10.1	i	Sloan
210719	110-361 Z	18:42:44.99	+00:08:04.9	J2000.00	1.466	180.1	06:24:20.4	20.1	z	Gunn
210720	110-361 KPB	18:42:45.00	+00:08:05.0	J2000.00	1.460	180.1	06:25:43.7	10.1	B	Kitt Peak
210721	110-361 U	18:42:45.00	+00:08:05.0	J2000.00	1.451	180.1	06:26:58.3	60.1	U	RGO
210722	Flat field	16:47:52.50	-15:17:44.0	B1950.00	1.394	180.1	06:56:26.7	87.8	B	Kitt Peak
210723	Flat field	16:47:53.19	-15:17:34.0	B1950.00	1.393	180.1	06:59:09.7	49.1	B	Kitt Peak
210724	Flat field	16:47:53.19	-15:17:53.7	B1950.00	1.393	180.1	07:01:07.3	30.7	B	Kitt Peak
210725	Flat field	16:47:51.81	-15:17:54.0	B1950.00	1.393	180.1	07:03:06.6	18.1	B	Kitt Peak
210726	Flat field	16:47:52.50	-15:17:44.0	B1950.00	1.392	180.1	07:05:07.5	5.1	g	Sloan
210727	Flat field	16:47:53.19	-15:17:33.9	B1950.00	1.392	180.1	07:06:22.7	5.1	g	Sloan
210728	Flat field	16:47:52.50	-15:17:43.9	B1950.00	1.392	180.1	07:07:48.5	7.1	r	Sloan
210729	Flat field	16:47:52.50	-15:17:43.9	B1950.00	1.392	180.1	07:09:06.6	2.6	r	Sloan