INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:             INT
DATE:                  20000330
TAPE NR:               INTD4343
OBSERVER:              MJI
PROGRAMME:             WFS
PATT/CAT REF.:         WFS09
TELESCOPE OPERATOR:
SUPPORT ASTRONOMER:

TELESCOPE FOCUS:       46.0 mm
CALIBRATE RESULTS:     HI 42.49 +/- 4.25, DI -43.46 +/- 1.40, HC 43.39 +/- 3.09, Sky sigma 3.69

INSTRUMENT:            WFC

WEATHER:               (1st half) Good
                       (2nd half) Fair - but photometric until ~04 UT
CLOUD COVER (%):       (1st half) 0
                       (2nd half) 0
DUST (0-2):            (1st half) 0
                       (2nd half) 0
SEEING (arcsec):       (1st half) 1.2
                       (2nd half) 1.5

DOME OPENED (UT):      18:40

TEMPERATURE, HUMIDITY and WIND:
   UT    Temp  Hum%  Wspd  Wdir
00:00    2.6    18    24   230
01:00    2.1    25    28   230
02:00    2.3    42    30   204
03:00    1.9    49    33   219
04:00    1.7    52    33   187
05:00    1.6    51    27   168

SUNSET(UT)             19:35
EVENING TWILIGHT(UT)   20:48
MORNING TWILIGHT(UT)   05:43
SUNRISE(UT)            06:56
MOON'S QUARTER (1-4)   4
DISK % OF ILLUM.       21
DARK TIME              08:55
TWILIGHT TIME          02:26
MOONRISE(UT)           04:22
MOONSET(UT)            No moonset within sunset-sunrise

TIME LOST(WEATHER):    01:00
TIME LOST(TECHNICAL):  00:30
TIME LOST(OTHER):      00:00

COMMENTS:
  Photometric all night - closed early due to high humidity and poor seeing
  Mirror axial SW support oscillated for 30 minutes at HA -1 and Dec 0
  Closed at 04.30 UT due to high humidity and poor seeing
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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys	Channel	Binning	Comments
213656	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	15:15:32.6	0.0	B	Kitt Peak			
213657	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	15:17:07.3	0.0	B	Kitt Peak			
213658	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	15:17:57.3	0.0	B	Kitt Peak			
213659	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	15:18:48.0	0.0	B	Kitt Peak			

213660	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	15:19:36.3	0.0	B	Kitt Peak	
213661	Dark frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	16:02:55.7	900.0	B	Kitt Peak	
213662	Flat field	8:00:00.00	+39:59:59.9	J2000.00	1.036	180.1	19:47:18.4	3.1	z	Gunn	
213663	Flat field	8:00:02.61	+40:00:30.0	J2000.00	1.036	180.1	19:48:38.6	4.9	z	Gunn	
213664	Flat field	8:00:05.22	+40:00:59.9	J2000.00	1.035	180.1	19:49:47.2	6.1	z	Gunn	
213665	Flat field	8:00:05.22	+39:58:59.9	J2000.00	1.034	180.1	19:51:01.9	9.1	z	Gunn	
213666	Flat field	8:00:05.22	+39:58:59.9	J2000.00	1.033	180.1	19:52:30.6	4.4	i	Sloan	
213667	Flat field	8:00:03.91	+39:59:30.0	J2000.00	1.032	180.1	19:53:50.4	6.1	i	Sloan	
213668	Flat field	7:59:58.00	+39:59:37.3	J2000.00	1.031	180.1	19:55:01.1	8.1	i	Sloan	
213669	Flat field	8:00:00.00	+40:00:00.0	J2000.00	1.031	180.1	19:56:31.5	7.6	r	Sloan	
213670	Flat field	7:59:57.38	+40:00:30.0	J2000.00	1.030	180.1	19:57:42.8	16.1	r	Sloan	
213671	Flat field	7:59:57.38	+40:00:29.9	J2000.00	1.029	180.1	19:59:04.8	30.1	r	Sloan	
213672	Focus run	6:52:11.99	-00:17:16.9	J2000.00	1.179	180.1	20:26:32.4	10.1	B	Kitt Peak	
213673	sa98-670 KPB	6:52:12.00	-00:19:17.0	J2000.00	1.187	180.1	20:31:15.3	10.1	B	Kitt Peak	
213674	sa98-670 i	6:52:11.99	-00:19:17.0	J2000.00	1.189	180.1	20:32:30.7	10.1	i	Sloan	
213675	sa98-670 r	6:52:12.00	-00:19:17.0	J2000.00	1.190	180.1	20:33:43.5	10.1	r	Sloan	
213676	sa98-670 Z	6:52:11.99	-00:19:17.0	J2000.00	1.192	180.1	20:34:55.1	10.1	z	Gunn	
213677	sa101-427 KPB	9:57:26.00	-00:17:15.9	J2000.00	1.311	180.1	20:37:47.6	9.6	B	Kitt Peak	
213678	sa101-427 i	9:57:25.99	-00:17:15.9	J2000.00	1.307	180.1	20:38:59.7	10.1	i	Sloan	
213679	sa101-427 r	9:57:25.99	-00:17:16.0	J2000.00	1.303	180.1	20:40:10.6	9.6	r	Sloan	
213680	sa101-427 Z	9:57:26.00	-00:17:15.9	J2000.00	1.299	180.1	20:41:22.5	10.1	z	Gunn	
213681	mgc001	10:00:00.00	+00:00:00.1	J2000.00	1.287	180.1	20:45:55.9	100.0	B	Kitt Peak	
213682	mgc007	10:12:00.00	-00:00:00.1	J2000.00	1.311	180.1	20:50:08.4	100.1	B	Kitt Peak	
213683	mgc013	10:24:00.00	+00:00:00.0	J2000.00	1.335	180.1	20:54:58.7	100.0	B	Kitt Peak	
213684	sa101-427	9:57:26.00	-00:17:15.9	J2000.00	1.245	180.1	21:01:40.1	10.1	B	Kitt Peak	
213685	sa98-670	6:52:12.00	-00:19:16.9	J2000.00	1.249	180.1	21:03:58.7	10.1	B	Kitt Peak	
213686	mgc019	10:35:59.99	-00:00:00.1	J2000.00	1.333	180.1	21:07:26.3	100.0	B	Kitt Peak	
213687	mgc025	10:48:00.00	+00:00:00.3	J2000.00	1.362	180.1	21:11:43.7	99.5	B	Kitt Peak	
213688	mgc031	11:00:00.00	+00:00:00.2	J2000.00	1.395	180.1	21:15:35.9	100.1	B	Kitt Peak	
213689	sa98-670	6:52:12.00	-00:19:16.9	J2000.00	1.291	180.1	21:19:39.4	10.1	B	Kitt Peak	
213690	sa101-427	9:57:26.00	-00:17:16.0	J2000.00	1.203	180.1	21:22:12.5	10.1	B	Kitt Peak	
213691	mgc016	10:30:00.00	+00:00:00.1	J2000.00	1.241	180.1	21:27:57.6	749.4	B	Kitt Peak	
213692	mgc017 KPB	10:32:00.00	+00:00:00.1	J2000.00	1.213	180.1	21:43:10.3	749.2	B	Kitt Peak	
213693	mgc018 KPB	10:33:59.99	-00:00:00.1	J2000.00	1.188	180.1	22:00:08.5	748.7	B	Kitt Peak	
213694	mgc019 KPB	10:36:00.00	+00:00:00.0	J2000.00	1.170	180.1	22:15:27.0	749.4	B	Kitt Peak	
213695	mgc020 KPB	10:37:59.99	-00:00:00.1	J2000.00	1.157	180.1	22:30:07.9	749.4	B	Kitt Peak	
213696	sa98-670	6:52:11.99	-00:19:17.0	J2000.00	1.738	180.1	22:44:34.1	10.1	B	Kitt Peak	
213697	sa101-427	9:57:26.00	-00:17:15.9	J2000.00	1.145	180.1	22:46:32.7	10.1	B	Kitt Peak	
213698	sa104-334	12:42:21.00	-00:40:27.9	J2000.00	1.452	180.1	22:48:31.3	10.1	B	Kitt Peak	
213699	mgc037	11:12:00.00	+00:00:00.0	J2000.00	1.176	180.1	22:51:31.6	100.1	B	Kitt Peak	
213700	mgc043	11:24:00.00	-00:00:00.0	J2000.00	1.187	180.1	22:55:32.9	100.0	B	Kitt Peak	
213701	mgc049	11:36:00.00	+00:00:00.1	J2000.00	1.201	180.1	22:59:12.3	100.0	B	Kitt Peak	
213702	sa101-427	9:57:26.00	-00:17:16.0	J2000.00	1.152	180.1	23:02:16.4	10.1	B	Kitt Peak	
213703	mgc055	11:48:00.00	+00:00:00.1	J2000.00	1.213	180.1	23:04:16.6	99.5	B	Kitt Peak	
213704	mgc061	12:00:00.00	-00:00:00.1	J2000.00	1.230	180.1	23:08:02.0	100.0	B	Kitt Peak	
213705	sa104-334	12:42:21.00	-00:40:28.0	J2000.00	1.355	180.1	23:11:05.7	10.1	B	Kitt Peak	
213706	mgc068 KPB	12:14:00.00	-00:00:00.2	J2000.00	1.233	180.1	23:15:05.9	749.2	B	Kitt Peak	
213707	mgc067a KPB	12:11:55.00	+00:01:30.1	J2000.00	1.200	180.1	23:29:52.5	749.2	B	Kitt Peak	
213708	mgc069 KPB	12:16:00.00	-00:00:00.0	J2000.00	1.184	180.1	23:44:21.7	749.2	B	Kitt Peak	
213709	mgc070a KPB	12:18:05.00	+00:00:00.0	J2000.00	1.161	180.1	00:05:43.5	749.2	B	Kitt Peak	
213710	sa104-334	12:42:21.00	-00:40:27.9	J2000.00	1.188	180.1	00:19:16.0	10.1	B	Kitt Peak	
213711	sa101-427	9:57:26.00	-00:17:16.0	J2000.00	1.282	180.1	00:21:45.2	10.1	B	Kitt Peak	
213712	mgc071 KPB	12:20:00.00	-00:00:00.1	J2000.00	1.148	180.1	00:24:35.2	749.4	B	Kitt Peak	
213713	mgc072a	12:22:05.00	+00:00:00.0	J2000.00	1.142	180.1	00:41:32.6	749.2	B	Kitt Peak	
213714	mgc073 KPB	12:24:00.00	-00:00:00.2	J2000.00	1.141	180.1	00:57:02.1	749.4	B	Kitt Peak	
213715	mgc074 KPB	12:25:59.99	-00:00:00.2	J2000.00	1.143	180.1	01:11:28.5	749.3	B	Kitt Peak	
213716	sa101-427	9:57:26.00	-00:17:16.0	J2000.00	1.563	180.1	01:25:51.1	10.1	B	Kitt Peak	
213717	sa104-334	12:42:21.00	-00:40:28.0	J2000.00	1.149	180.1	01:27:20.2	10.1	B	Kitt Peak	
213718	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.528	180.1	01:29:30.7	10.1	B	Kitt Peak	
213719	mgc075 KPB	12:28:00.00	-00:00:00.2	J2000.00	1.153	180.1	01:32:03.6	749.3	B	Kitt Peak	- mirror support oscillation
213720	mgc076 KPB	12:29:59.99	-00:00:00.2	J2000.00	1.164	180.1	01:46:22.5	749.3	B	Kitt Peak	- mirror support oscillation
213721	1045+2107	10:45:44.99	+21:06:59.8	B1950.00	1.254	180.1	02:00:46.2	599.4	r	Sloan	

213722	mgc085	12:48:00.00	-00:00:00.0	J2000.00	1.178	180.1	02:21:52.9	100.0	B	Kitt Peak
213723	mgc091	13:00:06.99	-00:00:00.1	J2000.00	1.168	180.1	02:26:04.7	100.0	B	Kitt Peak
213724	mgc097	13:12:00.00	+00:00:00.0	J2000.00	1.160	180.1	02:29:48.5	99.5	B	Kitt Peak
213725	mgc103	13:23:59.99	-00:00:00.1	J2000.00	1.153	180.1	02:34:05.2	100.1	B	Kitt Peak
213726	sa104-334	12:42:21.00	-00:40:28.0	J2000.00	1.219	180.1	02:37:14.1	10.1	B	Kitt Peak
213727	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.252	180.1	02:39:13.5	10.1	B	Kitt Peak
213728	mgc123	14:04:00.00	+00:00:00.0	J2000.00	1.141	180.1	02:43:21.6	749.3	B	Kitt Peak
213729	mgc124	14:05:59.99	-00:00:00.1	J2000.00	1.146	180.1	02:57:37.8	749.2	B	Kitt Peak
213730	mgc125	14:08:00.00	-00:00:00.1	J2000.00	1.154	180.1	03:13:32.4	749.4	B	Kitt Peak
213731	sa104-334	12:42:21.00	-00:40:28.0	J2000.00	1.359	180.1	03:27:37.9	10.1	B	Kitt Peak
213732	sa107-602	15:39:19.00	-00:15:28.9	J2000.00	1.166	180.1	03:29:49.8	10.1	B	Kitt Peak
213733	mgc115	13:47:59.99	+00:00:00.1	J2000.00	1.194	180.1	03:32:24.4	100.0	B	Kitt Peak
213734	mgc133	14:24:00.00	+00:00:00.0	J2000.00	1.155	180.1	03:36:28.3	99.9	B	Kitt Peak
213735	mgc139	14:36:00.00	+00:00:00.1	J2000.00	1.150	180.1	03:40:52.8	100.0	B	Kitt Peak
213736	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.154	180.1	03:44:27.2	10.1	B	Kitt Peak
213737	sa104-334	12:42:21.00	-00:40:27.9	J2000.00	1.440	180.1	03:46:46.3	10.1	B	Kitt Peak
213738	sa107-602 g	15:39:18.99	-00:15:29.0	J2000.00	1.149	180.1	03:52:49.0	10.1	g	Sloan
213739	sa107-602 i	15:39:19.00	-00:15:29.0	J2000.00	1.148	180.1	03:54:01.4	10.1	i	Sloan
213740	sa107-602 r	15:39:19.00	-00:15:29.0	J2000.00	1.148	180.1	03:55:13.6	9.6	r	Sloan
213741	sa107-602 Z	15:39:18.99	-00:15:29.0	J2000.00	1.147	180.1	03:56:30.5	10.1	z	Gunn
213742	wfsj1610+5430_032	16:11:50.20	+54:29:59.9	J2000.00	1.121	180.1	04:00:25.8	599.4	g	Sloan
213743	wfsj1610+5430_032	16:11:50.20	+54:29:59.9	J2000.00	1.116	180.1	04:11:47.8	599.5	r	Sloan