INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:             INT
DATE:                  20000911
TAPE NR:               INTD4495
OBSERVER:              David James, David Mitchell, Kevin Pearson
PROGRAMME:             Planet Transit in NGC7789
PATT/CAT REF.:         P30+M31
TELESCOPE OPERATOR:    Jose Norberto
SUPPORT ASTRONOMER:    ----

TELESCOPE FOCUS:       46.25 mm
CALIBRATE RESULTS:     HI 37.5 +/- 3.94, DI -58,48 +/- 1.32, HC  62.01 +/- 2.84, Sky sigma 3.50

INSTRUMENT:            WFC

WFC FILTER WHEEL:      g,V,r,i,z,Ha

WEATHER:               (1st half) Goodr
                       (2nd half) Good
CLOUD COVER (%):       (1st half) 0%
                       (2nd half) 0%
DUST (0-2):            (1st half) 0
                       (2nd half) 0
SEEING (arcsec):       (1st half) 1.2
                       (2nd half) 1.0

DOME OPENED (UT):      19:10
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METEOROLOGICAL PARAMETERS

UT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
20:00	16.6	9	13.3	14.7	231	772.2	16.8	20.0	18.9	8	11
21:00	15.6	8	13.8	15.6	241	772.3	15.7	18.0	18.8	7	8
22:00	15.1	10	16.7	18.0	265	772.7	15.2	16.6	18.7	9	9
23:00	15.3	9	19.8	21.5	271	772.9	15.9	16.2	18.5	8	9
00:00	15.1	8	12.1	12.9	267	772.9	15.1	15.9	18.4	8	9
01:00	14.9	8	11.1	12.0	267	772.9	15.6	15.6	18.3	7	9
02:00	15.2	7	8.4	8.8	272	772.5	15.7	15.3	18.0	6	12
03:00	15.3	8	8.2	8.4	233	771.9	14.5	14.9	17.8	8	9
04:00	15.1	8	13.0	13.3	258	771.5	14.6	14.6	17.7	7	9
05:00	14.8	8	10.8	10.9	256	771.2	14.3	14.4	17.5	7	9
06:00	14.8	7	11.3	11.7	247	770.9	14.4	14.8	17.5	7	9

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SUNSET(UT)             19:29
EVENING TWILIGHT(UT)   20:42
MORNING TWILIGHT(UT)   05:35
SUNRISE(UT)            06:48
MOON'S QUARTER (1-4)   2
DISK % OF ILLUM.       98
DARK TIME              08:53
TWILIGHT TIME          02:26
MOONRISE(UT)           No moonrise within sunset-sunrise
MOONSET(UT)            05:40

TIME LOST(WEATHER):    00:00
TIME LOST(TECHNICAL):  00:00
TIME LOST(OTHER):      00:00
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COMMENTS:
  t/s focus 46.06, filter r, DF 0.15

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
229259	Bias	0:00:00.00	+00:00:00.0	B1950.00	1.000	180.0	13:00:38.9	0.0	g	Sloan	1 x 1	
229260	Bias	0:00:00.00	+00:00:00.0	B1950.00	1.000	180.0	13:04:18.3	0.0	g	Sloan	1 x 1	
229261	Bias	0:00:00.00	+00:00:00.0	B1950.00	1.000	180.0	13:07:04.6	0.0	r	Sloan	1 x 1	
229262	detest	10:00:00.00	+40:40:40.0	A	1.075	180.0	13:16:14.9	2.4	r	Sloan	1 x 1	
229263	detest	10:00:00.00	+40:40:39.9	A	1.092	180.0	13:28:15.9	2.1	r	Sloan	1 x 1	
229264	TESTBIAS	0:00:00.00	+00:00:00.0	A	1.000	180.0	17:02:51.1	0.0	r	Sloan	1 x 1	
229265	TESTBIAS	0:00:00.00	+00:00:00.0	A	1.000	180.0	17:08:12.5	0.0	r	Sloan	1 x 1	
229267	TESTBIAS	0:00:00.00	+00:00:00.0	A	1.000	180.0	17:13:19.8	0.0	r	Sloan	1 x 1	
229268	TESTBIAS	0:00:00.00	+00:00:00.0	A	1.000	180.0	17:16:35.3	0.0	r	Sloan	1 x 1	
229269	TESTBIAS	0:00:00.00	+00:00:00.0	A	1.000	180.0	17:18:01.0	0.0	r	Sloan	1 x 1	
229272	TESTBIAS	0:00:00.00	+00:00:00.0	A	1.000	180.0	17:24:54.9	0.0	r	Sloan	1 x 1	
229273	TESTBIAS	0:00:00.00	+00:00:00.0	A	1.000	180.0	17:26:31.6	0.0	r	Sloan	1 x 1	
229274	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	180.0	19:34:43.0	0.0	g	Sloan	1 x 1	
229276	Flat - R	19:19:09.00	+12:22:04.9	B1950.00	1.102	180.0	19:47:23.4	4.1	r	Sloan	1 x 1	
229277	Flat - R	19:19:08.99	+12:22:05.0	B1950.00	1.096	180.0	19:51:47.1	13.1	r	Sloan	1 x 1	
229278	Flat - R	19:19:08.99	+12:22:05.0	B1950.00	1.091	180.0	19:55:05.9	26.1	r	Sloan	1 x 1	
229279	Flat - R	19:19:09.68	+12:22:14.9	B1950.00	1.087	180.0	19:57:39.7	45.1	r	Sloan	1 x 1	
229280	Flat - R	19:19:10.36	+12:22:24.9	B1950.00	1.083	180.0	20:00:28.9	75.0	r	Sloan	1 x 1	
229282	0	19:19:10.36	+12:22:24.9	B1950.00	1.065	180.0	20:17:13.7	0.0	r	Sloan	1 x 1	
229283	BIAS	23:57:30.81	+56:43:41.9	J2000.00	2.087	180.0	20:20:28.9	0.0	r	Sloan	1 x 1	
229284	BIAS	23:57:30.80	+56:43:41.8	J2000.00	2.077	180.0	20:21:32.9	0.0	r	Sloan	1 x 1	
229285	BIAS	23:57:30.81	+56:43:41.7	J2000.00	2.068	180.0	20:22:31.3	0.0	r	Sloan	1 x 1	
229286	BIAS	23:57:30.80	+56:43:41.8	J2000.00	2.060	180.0	20:23:29.0	0.0	r	Sloan	1 x 1	
229287	BIAS	23:57:30.81	+56:43:41.8	J2000.00	2.052	180.0	20:24:26.7	0.0	r	Sloan	1 x 1	
229288	BIAS	23:57:30.80	+56:43:41.8	J2000.00	2.043	180.0	20:25:24.4	0.0	r	Sloan	1 x 1	
229289	BIAS	23:57:30.81	+56:43:41.8	J2000.00	2.035	180.0	20:26:23.3	0.0	r	Sloan	1 x 1	
229290	BIAS	23:57:30.80	+56:43:41.8	J2000.00	2.027	180.0	20:27:20.6	0.0	r	Sloan	1 x 1	
229291	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.854	180.0	20:47:30.0	299.8	r	Sloan	1 x 1	
229292	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.809	180.0	20:54:09.0	299.8	r	Sloan	1 x 1	
229293	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.767	180.0	21:00:46.5	299.2	r	Sloan	1 x 1	
229294	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.727	180.0	21:07:25.6	299.9	r	Sloan	1 x 1	
229295	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.690	180.0	21:14:03.7	299.9	r	Sloan	1 x 1	
229296	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.654	180.0	21:20:40.9	299.8	r	Sloan	1 x 1	
229297	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.621	180.0	21:27:18.7	299.6	r	Sloan	1 x 1	
229298	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.589	180.0	21:33:56.5	299.8	r	Sloan	1 x 1	
229299	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.559	180.0	21:40:35.0	299.8	r	Sloan	1 x 1	
229300	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.537	180.0	21:48:10.5	0.0	r	Sloan	1 x 1	
229301	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.518	180.0	21:50:04.4	299.9	r	Sloan	1 x 1	
229302	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.492	180.0	21:56:42.0	299.8	r	Sloan	1 x 1	
229303	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.467	180.0	22:03:19.3	299.9	r	Sloan	1 x 1	
229304	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.443	180.0	22:09:56.6	299.8	r	Sloan	1 x 1	
229305	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.421	180.0	22:16:33.5	299.2	r	Sloan	1 x 1	
229306	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.399	180.0	22:23:12.2	299.8	r	Sloan	1 x 1	
229307	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.379	180.0	22:29:50.8	299.7	r	Sloan	1 x 1	
229308	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.362	180.0	22:38:14.4	0.0	r	Sloan	1 x 1	
229309	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.350	180.0	22:39:59.7	299.8	r	Sloan	1 x 1	
229310	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.333	180.0	22:46:37.7	299.8	r	Sloan	1 x 1	
229311	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.316	180.0	22:53:15.4	299.8	r	Sloan	1 x 1	
229312	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.300	180.0	22:59:52.9	299.8	r	Sloan	1 x 1	
229313	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.286	180.0	23:06:30.7	299.8	r	Sloan	1 x 1	
229314	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.267	180.0	23:15:17.6	299.8	r	Sloan	1 x 1	
229315	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.254	180.0	23:21:56.5	299.8	r	Sloan	1 x 1	
229316	NGC 7789 - R	23:57:30.81	+56:43:41.7	J2000.00	1.242	180.0	23:28:33.4	299.7	r	Sloan	1 x 1	
229317	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.231	180.0	23:35:10.5	299.9	r	Sloan	1 x 1	
229318	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.220	180.0	23:41:48.2	299.9	r	Sloan	1 x 1	
229319	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.214	180.0	23:48:29.7	0.0	r	Sloan	1 x 1	
229320	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.205	180.0	23:51:59.2	299.8	r	Sloan	1 x 1	
229321	NGC 7789 - R	23:57:30.81	+56:43:41.7	J2000.00	1.196	180.0	23:58:37.5	299.9	r	Sloan	1 x 1	
229322	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.188	180.0	00:05:16.1	299.8	r	Sloan	1 x 1	
229323	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.180	180.0	00:11:54.2	299.8	r	Sloan	1 x 1	
229324	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.173	180.0	00:18:32.4	299.7	r	Sloan	1 x 1	

229325	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.167	180.0	00:25:09.6	299.2	r	Sloan	1 x 1
229326	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.161	180.0	00:31:47.5	299.8	r	Sloan	1 x 1
229327	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.155	180.0	00:38:25.6	299.8	r	Sloan	1 x 1
229328	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.151	180.0	00:45:10.4	299.8	r	Sloan	1 x 1
229329	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.146	180.0	00:51:47.7	299.2	r	Sloan	1 x 1
229330	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.143	180.0	00:58:25.5	299.9	r	Sloan	1 x 1
229331	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.140	180.0	01:05:03.2	299.7	r	Sloan	1 x 1
229332	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.137	180.0	01:11:41.2	299.8	r	Sloan	1 x 1
229333	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.135	180.0	01:20:25.7	0.0	r	Sloan	1 x 1
229334	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.134	180.0	01:22:24.5	299.8	r	Sloan	1 x 1
229335	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.133	180.0	01:29:01.6	299.8	r	Sloan	1 x 1
229336	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.132	180.0	01:35:39.1	299.8	r	Sloan	1 x 1
229337	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.132	180.0	01:42:17.1	299.8	r	Sloan	1 x 1
229338	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.132	180.0	01:48:54.7	299.8	r	Sloan	1 x 1
229339	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.133	180.0	01:55:32.6	299.8	r	Sloan	1 x 1
229340	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.135	180.0	02:02:11.0	299.9	r	Sloan	1 x 1
229341	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.136	180.0	02:08:48.7	299.3	r	Sloan	1 x 1
229342	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.139	180.0	02:15:26.6	299.8	r	Sloan	1 x 1
229343	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.142	180.0	02:22:04.5	299.9	r	Sloan	1 x 1
229344	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.145	180.0	02:28:41.4	299.7	r	Sloan	1 x 1
229345	BIAS	23:57:30.80	+56:43:41.8	J2000.00	1.148	180.0	02:35:08.7	0.0	r	Sloan	1 x 1
229346	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.150	180.0	02:36:53.4	299.8	r	Sloan	1 x 1
229347	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.155	180.0	02:43:30.7	299.3	r	Sloan	1 x 1
229348	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.160	180.0	02:50:08.5	299.8	r	Sloan	1 x 1
229349	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.166	180.0	02:56:46.3	299.8	r	Sloan	1 x 1
229350	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.173	180.0	03:03:24.4	299.8	r	Sloan	1 x 1
229351	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.180	180.0	03:10:02.1	299.8	r	Sloan	1 x 1
229352	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.187	180.0	03:16:40.1	299.8	r	Sloan	1 x 1
229353	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.196	180.0	03:23:17.5	299.8	r	Sloan	1 x 1
229354	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.205	180.0	03:29:55.4	299.7	r	Sloan	1 x 1
229355	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.214	180.0	03:36:32.6	299.7	r	Sloan	1 x 1
229356	BIAS	23:57:30.80	+56:43:41.8	J2000.00	1.221	180.0	03:43:12.2	0.0	r	Sloan	1 x 1
229357	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.227	180.0	03:44:54.2	299.8	r	Sloan	1 x 1
229358	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.238	180.0	03:51:31.4	299.9	r	Sloan	1 x 1
229359	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.250	180.0	03:58:10.5	299.8	r	Sloan	1 x 1
229360	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.263	180.0	04:04:47.4	299.8	r	Sloan	1 x 1
229361	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.276	180.0	04:11:24.6	299.7	r	Sloan	1 x 1
229362	NGC 7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.291	180.0	04:18:02.4	299.8	r	Sloan	1 x 1
229363	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.306	180.0	04:24:40.8	299.8	r	Sloan	1 x 1
229364	NGC 7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.322	180.0	04:31:18.9	299.8	r	Sloan	1 x 1
229365	BIAS	23:57:30.80	+56:43:41.8	J2000.00	1.332	180.0	04:37:46.5	0.0	r	Sloan	1 x 1
229366	Focus run	3:54:31.00	+00:31:35.0	J2000.00	1.167	180.0	04:47:25.3	10.1	r	Sloan	1 x 1
229367	JUNK	3:54:30.99	+00:34:05.0	J2000.00	1.158	180.0	04:52:48.2	10.1	r	Sloan	1 x 1
229368	M31-microfld1	0:43:59.99	+41:34:00.0	J2000.00	1.194	180.0	04:58:06.5	319.9	r	Sloan	1 x 1
229369	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.212	180.0	05:05:04.6	319.2	r	Sloan	1 x 1
229370	M31-microfld1	0:43:59.99	+41:34:00.0	J2000.00	1.231	180.0	05:12:03.3	319.8	i	Sloan	1 x 1
229371	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.252	180.0	05:19:02.9	319.8	i	Sloan	1 x 1
229372	File not available										
229373	File not available										
229374	File not available										
229375	File not available										
229376	File not available										
229377	File not available										
229378	File not available										
229379	File not available										
229380	File not available										
229381	File not available										
229382	File not available										
229383	File not available										
229384	File not available										
229385	File not available										
229386	File not available										