INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE: INT
DATE: 20000919
TAPE NR: INTD4507
OBSERVER: David James, David Mitchell, Kevin Pearson
PROGRAMME: Planet Transits in NGC7789
PATT/CAT REF.: P30+M31
TELESCOPE OPERATOR: -
SUPPORT ASTRONOMER: -

TELESCOPE FOCUS: not specified
CALIBRATE RESULTS: not specified

INSTRUMENT: WFC

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

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

DOME OPENED (UT): 19:00

METEOROLOGICAL PARAMETERS

UT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
20:00	9.8	29	19.5	25.3	311	769.7	9.8	15.1	16.6	31	20
21:00	8.3	57	14.6	19.9	321	769.8	8.5	13.0	16.3	55	40
22:00	6.6	77	27.4	34.5	336	770.0	7.0	12.4	16.2	74	56
23:00	7.6	51	44.5	48.0	326	770.2	8.9	10.7	15.6	44	42
00:00	7.3	48	35.5	37.7	337	770.3	7.5	10.5	15.5	49	40
01:00	7.8	30	37.9	42.6	334	770.0	8.2	10.4	15.1	30	26
02:00	6.2	43	40.3	42.3	337	769.5	7.0	9.5	14.9	37	35
03:00	6.8	48	34.7	36.6	322	769.3	7.2	9.8	14.3	44	35
04:00	6.8	32	35.9	37.0	350	769.1	7.1	9.4	14.0	37	33
05:00	6.8	50	38.4	45.5	1	768.7	6.1	9.1	13.8	67	53
06:00	5.2	85	38.3	40.2	336	768.5	5.0	9.6	13.8	93	75

SUNSET(UT) 19:19
EVENING TWILIGHT(UT) 20:31
MORNING TWILIGHT(UT) 05:40
SUNRISE(UT) 06:52
MOON’S QUARTER (1-4) 3
DISK % OF ILLUM. 59
DARK TIME 09:09
TWILIGHT TIME 02:24
MOONRISE(UT) 23:13
MOONSET(UT) No moonset within sunset-sunrise

TIME LOST(WEATHER): 03:30
TIME LOST(TECHNICAL): 00:00
TIME LOST(OTHER): 00:00

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys	Channel	Binning	Comments
230218	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	1.000	180.0	12:45:15.0	0.0	i	Sloan		1 x 1	

230219	FLAT	19:19:09.00	+12:22:05.0	B1950.00	1.078	180.0	19:34:02.4	2.0	r	Sloan	1 x 1
230220	FLAT	19:19:09.68	+12:22:15.0	B1950.00	1.075	180.0	19:36:02.8	2.1	r	Sloan	1 x 1
230221	FLAT	19:19:10.36	+12:22:25.0	B1950.00	1.074	180.0	19:37:36.7	4.2	r	Sloan	1 x 1
230222	FLAT	19:19:11.04	+12:22:34.9	B1950.00	1.072	180.0	19:39:13.5	7.6	r	Sloan	1 x 1
230223	FLAT	19:19:11.73	+12:22:44.9	B1950.00	1.070	180.0	19:40:56.4	16.1	r	Sloan	1 x 1
230224	FLAT	19:19:12.41	+12:22:54.9	B1950.00	1.068	180.0	19:42:44.9	32.1	r	Sloan	1 x 1
230225	FLAT	19:19:13.09	+12:23:05.0	B1950.00	1.066	180.0	19:44:47.7	55.0	r	Sloan	1 x 1
230226	Focus run	18:42:45.00	+00:10:49.1	J2000.00	1.139	180.0	19:55:03.6	10.1	r	Sloan	1 x 1
230227	PT test	23:57:30.81	+56:43:41.8	J2000.00	1.942	180.0	20:06:25.6	10.1	V	Harris	1 x 1
230228	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.927	180.0	20:18:08.5	0.0	V	Harris	1 x 1
230229	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.927	180.0	20:19:11.3	0.0	V	Harris	1 x 1
230230	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.842	180.0	20:20:14.4	0.0	V	Harris	1 x 1
230231	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.836	180.0	20:21:12.8	0.0	V	Harris	1 x 1
230232	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.829	180.0	20:22:10.5	0.0	V	Harris	1 x 1
230233	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.823	180.0	20:23:08.1	0.0	V	Harris	1 x 1
230234	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.816	180.0	20:24:05.8	0.0	V	Harris	1 x 1
230235	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.810	180.0	20:25:03.4	0.0	V	Harris	1 x 1
230236	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.804	180.0	20:26:01.2	0.0	V	Harris	1 x 1
230237	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.798	180.0	20:26:58.9	0.0	V	Harris	1 x 1
230238	Test	23:57:30.81	+56:43:41.8	J2000.00	1.584	180.0	21:05:52.3	10.1	r	Sloan	1 x 1
230239	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.556	180.0	21:09:44.5	299.9	r	Sloan	1 x 1
230240	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.526	180.0	21:16:46.7	299.7	r	Sloan	1 x 1
230241	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.497	180.0	21:23:55.6	299.8	r	Sloan	1 x 1
230242	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.471	180.0	21:30:45.5	299.8	r	Sloan	1 x 1
230243	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.446	180.0	21:37:34.8	299.9	r	Sloan	1 x 1
230244	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.423	180.0	21:44:24.7	299.3	r	Sloan	1 x 1
230245	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.401	180.0	21:51:13.6	299.8	r	Sloan	1 x 1
230246	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.380	180.0	21:58:04.0	299.8	r	Sloan	1 x 1
230247	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.360	180.0	22:04:53.7	299.8	r	Sloan	1 x 1
230248	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.342	180.0	22:11:43.8	299.7	r	Sloan	1 x 1
230249	BIAS	23:57:30.80	+56:43:41.7	J2000.00	1.331	180.0	22:18:18.8	0.0	r	Sloan	1 x 1
230250	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.320	180.0	22:20:02.7	299.8	r	Sloan	1 x 1
230251	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.304	180.0	22:26:53.4	299.8	r	Sloan	1 x 1
230252	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.289	180.0	22:33:41.7	299.8	r	Sloan	1 x 1
230253	NGC 7789	23:57:30.81	+56:43:41.9	J2000.00	1.274	180.0	22:40:33.2	299.8	r	Sloan	1 x 1
230254	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.260	180.0	22:47:22.6	299.8	r	Sloan	1 x 1
230255	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.247	180.0	22:54:12.2	299.8	r	Sloan	1 x 1
230256	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.235	180.0	23:00:59.9	299.8	r	Sloan	1 x 1
230257	NGC 7789	23:57:30.80	+56:43:41.5	J2000.00	1.224	180.0	23:07:49.8	299.7	r	Sloan	1 x 1
230258	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.214	180.0	23:14:39.6	299.8	r	Sloan	1 x 1
230259	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.204	180.0	23:21:29.1	299.3	r	Sloan	1 x 1
230260	BIAS	23:57:30.80	+56:43:41.7	J2000.00	1.195	180.0	23:30:33.2	0.0	r	Sloan	1 x 1
230261	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.182	180.0	23:38:27.4	299.8	r	Sloan	1 x 1
230262	NGC 7789	23:57:30.81	+56:43:41.7	J2000.00	1.173	180.0	23:46:48.0	299.7	r	Sloan	1 x 1
230263	NGC 7789	23:57:30.81	+56:43:41.9	J2000.00	1.167	180.0	23:53:36.6	299.3	r	Sloan	1 x 1
230264	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.161	180.0	00:00:26.8	299.8	r	Sloan	1 x 1
230265	NGC 7789	23:57:30.81	+56:43:41.9	J2000.00	1.155	180.0	00:07:15.7	299.9	r	Sloan	1 x 1
230266	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.150	180.0	00:14:06.1	299.8	r	Sloan	1 x 1
230267	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.146	180.0	00:20:54.1	299.8	r	Sloan	1 x 1
230268	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.142	180.0	00:27:44.0	299.7	r	Sloan	1 x 1
230269	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.139	180.0	00:34:32.6	299.4	r	Sloan	1 x 1
230270	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.137	180.0	00:41:24.0	299.9	r	Sloan	1 x 1
230271	NGC 7789	23:57:30.81	+56:43:41.9	J2000.00	1.135	180.0	00:48:11.8	299.8	r	Sloan	1 x 1
230272	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.134	180.0	00:54:58.9	0.0	r	Sloan	1 x 1
230273	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.133	180.0	00:56:56.7	299.8	r	Sloan	1 x 1
230274	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.132	180.0	01:03:46.5	299.8	r	Sloan	1 x 1
230275	NGC 7789	23:57:30.81	+56:43:41.7	J2000.00	1.132	180.0	01:10:36.1	299.9	r	Sloan	1 x 1
230276	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.132	180.0	01:17:24.4	299.7	r	Sloan	1 x 1
230277	NGC 7789	23:57:30.81	+56:43:41.9	J2000.00	1.133	180.0	01:24:14.8	299.9	r	Sloan	1 x 1
230278	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.135	180.0	01:31:04.2	299.7	r	Sloan	1 x 1
230279	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.137	180.0	01:37:54.9	299.8	r	Sloan	1 x 1
230280	NGC 7789	23:57:30.80	+56:43:41.7	J2000.00	1.139	180.0	01:44:41.8	299.8	r	Sloan	1 x 1

230281	NGC 7789	23:57:30.81	+56:43:41.9	J2000.00	1.142	180.0	01:51:31.6	299.2	r	Sloan	1 x 1
230282	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.146	180.0	01:58:21.3	299.8	r	Sloan	1 x 1
230283	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.149	180.0	02:04:57.5	0.0	r	Sloan	1 x 1
230284	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.151	180.0	02:06:42.2	299.8	r	Sloan	1 x 1
230285	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.156	180.0	02:13:30.8	299.8	r	Sloan	1 x 1
230286	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.162	180.0	02:20:20.8	299.7	r	Sloan	1 x 1
230287	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.168	180.0	02:27:09.6	299.3	r	Sloan	1 x 1
230288	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.175	180.0	02:33:59.1	299.8	r	Sloan	1 x 1
230289	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.182	180.0	02:40:47.9	299.8	r	Sloan	1 x 1
230290	NGC 7789	23:57:30.81	+56:43:42.0	J2000.00	1.190	180.0	02:47:38.2	299.8	r	Sloan	1 x 1
230291	NGC 7789	23:57:30.81	+56:43:41.6	J2000.00	1.199	180.0	02:54:27.6	299.8	r	Sloan	1 x 1
230292	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.209	180.0	03:01:17.4	299.8	r	Sloan	1 x 1
230293	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.219	180.0	03:08:06.6	299.7	r	Sloan	1 x 1
230294	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.225	180.0	03:14:38.6	0.0	r	Sloan	1 x 1
230295	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.233	180.0	03:16:39.9	299.8	r	Sloan	1 x 1
230297	NGC 7789	23:57:30.80	+56:43:41.8	J2000.00	1.297	180.0	03:49:20.4	299.8	r	Sloan	1 x 1
230298	NGC 7789	23:57:30.81	+56:43:41.8	J2000.00	1.313	180.0	03:56:10.6	299.8	r	Sloan	1 x 1
230300	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:09:07.7	0.0	r	Sloan	1 x 1
230301	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:10:04.9	0.0	r	Sloan	1 x 1
230302	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:11:02.2	0.0	r	Sloan	1 x 1
230303	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:11:59.6	0.0	r	Sloan	1 x 1
230304	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:12:56.8	0.0	r	Sloan	1 x 1
230305	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:13:54.1	0.0	r	Sloan	1 x 1
230306	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:27:40.0	0.0	r	Sloan	1 x 1
230307	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:28:37.5	0.0	r	Sloan	1 x 1
230308	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:29:36.6	0.0	r	Sloan	1 x 1
230309	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:30:33.8	0.0	r	Sloan	1 x 1
230310	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:31:31.2	0.0	r	Sloan	1 x 1
230311	BIAS	0:00:00.00	+00:00:00.0	J2000.00	1.333	180.0	04:32:28.5	0.0	r	Sloan	1 x 1