INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE: INT
DATE: 20000912
TAPE NR: INTD4497
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): 20:15

METEOROLOGICAL PARAMETERS

UT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
20:00	15.7	10	14.3	15.1	250	770.5	15.9	19.7	18.6	10	14
21:00	14.9	7	13.7	14.6	246	770.7	14.8	17.3	18.4	6	8
22:00	15.1	6	12.3	12.5	249	771.1	14.8	16.4	18.3	6	7
23:00	15.1	6	12.9	13.1	265	771.6	14.4	15.7	18.3	5	6
00:00	15.4	6	11.7	12.0	244	771.6	14.9	15.5	18.0	5	8
01:00	15.5	5	13.3	15.3	227	771.3	15.1	15.5	18.0	5	7
02:00	15.4	6	16.0	17.1	227	770.8	15.0	15.3	17.8	5	7
03:00	15.0	6	14.2	15.5	249	770.3	14.7	14.9	17.6	5	7
04:00	14.9	5	16.0	17.0	245	769.9	14.7	14.8	17.5	5	6
05:00	14.7	6	13.0	14.5	230	769.6	14.8	14.5	17.5	5	7
06:00	14.4	6	15.4	16.5	237	769.5	14.4	15.3	17.2	5	6

SUNSET(UT) 19:28
EVENING TWILIGHT(UT) 20:40
MORNING TWILIGHT(UT) 05:36
SUNRISE(UT) 06:48
MOON'S QUARTER (1-4) 2
DISK % OF ILLUM. 100
DARK TIME 08:56
TWILIGHT TIME 02:24
MOONRISE(UT) No moonrise within sunset-sunrise
MOONSET(UT) 06:35

TIME LOST(WEATHER): 00:00
TIME LOST(TECHNICAL): 00:25
TIME LOST(OTHER): 00:00

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys	Channel	Binning	Comments
229387	Bias	10:11:11.00	+45:45:44.9	A	1.076	180.0	13:03:35.4	0.0	r	Sloan		1 x 1	

229388	detest	10:11:11.00	+45:45:45.0	A	1.079	180.0	13:07:28.1	2.1	r	Sloan	1 x 1
229389	detest	0:00:00.00	+00:00:00.0	A	1.000	180.0	13:12:31.4	13.1	i	Sloan	1 x 1
229390	TEST	19:19:09.00	+12:22:04.9	B1950.00	1.125	180.0	19:30:37.7	2.0	r	Sloan	1 x 1
229391	flat	19:19:08.99	+12:22:04.9	B1950.00	1.101	180.0	19:44:07.3	2.1	r	Sloan	1 x 1
229392	flat	19:19:08.99	+12:22:04.9	B1950.00	1.098	180.0	19:46:34.6	4.1	r	Sloan	1 x 1
229393	flat	19:19:09.68	+12:22:14.9	B1950.00	1.095	180.0	19:48:23.3	7.1	r	Sloan	1 x 1
229394	flat	19:19:10.36	+12:22:25.0	B1950.00	1.092	180.0	19:50:34.6	18.1	r	Sloan	1 x 1
229395	flat	19:19:11.04	+12:22:34.9	B1950.00	1.089	180.0	19:52:38.7	32.1	r	Sloan	1 x 1
229396	flat	19:19:11.72	+12:22:45.1	B1950.00	1.085	180.0	19:54:50.4	55.1	r	Sloan	1 x 1
229397	TEST JUNK	21:42:35.00	+00:16:46.0	J2000.00	1.531	180.0	20:36:52.6	10.1	r	Sloan	1 x 1
229399	TEST JUNK	21:42:35.00	+00:16:46.0	J2000.00	1.507	180.0	20:40:54.4	10.1	r	Sloan	1 x 1
229400	Focus run	21:42:35.00	+00:19:16.0	J2000.00	1.481	180.0	20:46:58.8	10.1	r	Sloan	1 x 1
229401	BIAS	21:42:35.00	+00:21:46.0	J2000.00	1.444	180.0	20:52:39.3	0.0	r	Sloan	1 x 1
229402	BIAS	21:42:35.00	+00:21:45.9	J2000.00	1.439	180.0	20:53:37.0	0.0	r	Sloan	1 x 1
229403	BIAS	21:42:34.99	+00:21:46.0	J2000.00	1.434	180.0	20:54:34.7	0.0	r	Sloan	1 x 1
229404	BIAS	21:42:35.00	+00:21:46.0	J2000.00	1.430	180.0	20:55:33.9	0.0	r	Sloan	1 x 1
229405	BIAS	21:42:35.00	+00:21:45.9	J2000.00	1.425	180.0	20:56:34.7	0.0	r	Sloan	1 x 1
229406	BIAS	21:42:35.00	+00:21:45.9	J2000.00	1.420	180.0	20:57:32.4	0.0	r	Sloan	1 x 1
229407	BIAS	21:42:35.00	+00:21:46.0	J2000.00	1.416	180.0	20:58:30.0	0.0	r	Sloan	1 x 1
229408	JUNK	23:57:30.81	+56:43:41.7	J2000.00	1.727	180.0	21:05:55.8	5.1	r	Sloan	1 x 1
229409	JUNNK	23:58:29.14	+56:43:40.9	J2000.00	1.671	180.0	21:17:02.5	2.1	r	Sloan	1 x 1
229410	NGC7789	23:58:29.13	+56:43:31.0	J2000.00	1.652	180.0	21:20:43.3	2.1	r	Sloan	1 x 1
229411	NGC 7789 - R	23:58:29.12	+56:43:30.8	J2000.00	1.621	180.0	21:24:15.0	299.7	r	Sloan	1 x 1
229412	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.584	180.0	21:31:54.3	299.7	r	Sloan	1 x 1
229413	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.554	180.0	21:38:34.7	299.8	r	Sloan	1 x 1
229414	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.526	180.0	21:45:13.7	299.8	r	Sloan	1 x 1
229415	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.499	180.0	21:51:52.5	299.8	r	Sloan	1 x 1
229416	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.474	180.0	21:58:32.1	299.9	r	Sloan	1 x 1
229417	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.449	180.0	22:05:11.5	299.9	r	Sloan	1 x 1
229418	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.426	180.0	22:11:50.7	299.8	r	Sloan	1 x 1
229419	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.405	180.0	22:18:31.1	299.8	r	Sloan	1 x 1
229420	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.384	180.0	22:25:11.4	299.8	r	Sloan	1 x 1
229421	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.365	180.0	22:31:51.0	299.8	r	Sloan	1 x 1
229422	BIAS	23:58:29.13	+56:43:30.9	J2000.00	1.336	180.0	22:44:51.5	0.0	r	Sloan	1 x 1
229423	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.324	180.0	22:46:52.4	299.7	r	Sloan	1 x 1
229424	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.308	180.0	22:53:32.2	299.8	r	Sloan	1 x 1
229425	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.293	180.0	23:00:11.6	299.8	r	Sloan	1 x 1
229426	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.277	180.0	23:07:20.5	299.8	r	Sloan	1 x 1
229427	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.264	180.0	23:14:00.4	299.7	r	Sloan	1 x 1
229428	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.251	180.0	23:20:39.6	299.7	r	Sloan	1 x 1
229429	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.239	180.0	23:27:19.5	299.7	r	Sloan	1 x 1
229430	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.228	180.0	23:34:00.1	299.8	r	Sloan	1 x 1
229431	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.217	180.0	23:40:38.9	299.8	r	Sloan	1 x 1
229432	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.207	180.0	23:47:18.7	299.8	r	Sloan	1 x 1
229433	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.198	180.0	23:53:58.4	299.8	r	Sloan	1 x 1
229434	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.190	180.0	00:00:37.7	299.8	r	Sloan	1 x 1
229435	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.182	180.0	00:07:18.8	299.9	r	Sloan	1 x 1
229436	BIAS	23:58:29.13	+56:43:30.9	J2000.00	1.177	180.0	00:13:53.2	0.0	r	Sloan	1 x 1
229437	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.173	180.0	00:15:41.3	299.7	r	Sloan	1 x 1
229438	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.166	180.0	00:22:20.7	299.7	r	Sloan	1 x 1
229439	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.161	180.0	00:29:00.2	299.8	r	Sloan	1 x 1
229440	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.155	180.0	00:35:39.9	299.9	r	Sloan	1 x 1
229441	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.150	180.0	00:42:19.6	299.8	r	Sloan	1 x 1
229442	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.146	180.0	00:48:58.8	299.9	r	Sloan	1 x 1
229443	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.143	180.0	00:55:38.4	299.8	r	Sloan	1 x 1
229444	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.139	180.0	01:02:17.5	299.7	r	Sloan	1 x 1
229445	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.137	180.0	01:08:57.3	299.8	r	Sloan	1 x 1
229446	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.135	180.0	01:15:36.8	299.8	r	Sloan	1 x 1
229447	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.133	180.0	01:22:16.3	299.8	r	Sloan	1 x 1
229448	BIAS	23:58:29.13	+56:43:30.9	J2000.00	1.132	180.0	01:38:55.0	0.0	r	Sloan	1 x 1
229449	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.132	180.0	01:40:53.0	299.8	r	Sloan	1 x 1
229450	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.132	180.0	01:47:32.4	299.8	r	Sloan	1 x 1

229451	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.133	180.0	01:54:12.2	299.8	r	Sloan	1 x 1
229452	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.135	180.0	02:00:52.0	299.7	r	Sloan	1 x 1
229453	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.137	180.0	02:07:32.0	299.8	r	Sloan	1 x 1
229454	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.140	180.0	02:14:11.3	299.8	r	Sloan	1 x 1
229455	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.143	180.0	02:20:50.8	299.8	r	Sloan	1 x 1
229456	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.146	180.0	02:27:31.5	299.8	r	Sloan	1 x 1
229457	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.151	180.0	02:34:10.3	299.8	r	Sloan	1 x 1
229458	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.155	180.0	02:40:49.0	299.7	r	Sloan	1 x 1
229459	bias	23:58:29.13	+56:43:30.9	J2000.00	1.167	180.0	02:56:38.6	0.0	r	Sloan	1 x 1
229460	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.171	180.0	02:58:19.4	299.8	r	Sloan	1 x 1
229461	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.178	180.0	03:04:58.8	299.9	r	Sloan	1 x 1
229462	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.185	180.0	03:11:38.3	299.9	r	Sloan	1 x 1
229463	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.193	180.0	03:18:17.4	299.8	r	Sloan	1 x 1
229464	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.202	180.0	03:24:57.3	299.7	r	Sloan	1 x 1
229465	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.211	180.0	03:31:36.7	299.8	r	Sloan	1 x 1
229466	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.221	180.0	03:38:15.9	299.9	r	Sloan	1 x 1
229467	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.232	180.0	03:44:56.0	299.8	r	Sloan	1 x 1
229468	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.244	180.0	03:51:35.4	299.8	r	Sloan	1 x 1
229469	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.256	180.0	03:58:14.7	299.3	r	Sloan	1 x 1
229470	bias	23:58:29.13	+56:43:31.0	J2000.00	1.264	180.0	04:04:47.7	0.0	r	Sloan	1 x 1
229471	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.273	180.0	04:06:48.4	299.8	r	Sloan	1 x 1
229472	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.287	180.0	04:13:27.6	299.7	r	Sloan	1 x 1
229473	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.302	180.0	04:20:07.6	299.8	r	Sloan	1 x 1
229474	NGC 7789 - R	23:58:29.13	+56:43:31.0	J2000.00	1.318	180.0	04:26:47.6	299.8	r	Sloan	1 x 1
229475	NGC 7789 - R	23:58:29.13	+56:43:30.9	J2000.00	1.335	180.0	04:33:27.4	299.9	r	Sloan	1 x 1
229476	BIAS	23:58:29.13	+56:43:31.0	J2000.00	1.350	180.0	04:41:34.0	0.0	r	Sloan	1 x 1
229477	TEST	23:58:29.13	+56:43:30.9	J2000.00	1.354	180.0	04:43:02.5	10.1	r	Sloan	1 x 1
229478	M31-microfld1	0:21:59.99	+20:47:00.0	J2000.00	1.178	180.0	04:47:53.2	319.8	r	Sloan	1 x 1
229479	M31-microfld1	0:43:59.99	+41:34:00.0	J2000.00	1.195	180.0	04:54:52.4	319.8	r	Sloan	1 x 1
229480	M31-microfld1	0:43:59.99	+41:34:00.0	J2000.00	1.214	180.0	05:01:52.0	319.8	r	Sloan	1 x 1
229481	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.233	180.0	05:08:52.6	319.8	r	Sloan	1 x 1
229482	M31-microfld2	0:43:09.99	+40:58:14.9	J2000.00	1.259	180.0	05:16:59.3	319.7	r	Sloan	1 x 1
229483	M31-microfld2	0:43:09.99	+40:58:15.0	J2000.00	1.282	180.0	05:23:59.7	319.8	r	Sloan	1 x 1
229484	M31-microfld2	0:43:09.99	+40:58:15.0	J2000.00	1.307	180.0	05:30:59.0	319.7	r	Sloan	1 x 1
229485	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.333	180.0	05:37:58.2	319.7	r	Sloan	1 x 1
229486	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.111	180.0	09:20:08.6	0.0	V	Harris	1 x 1