INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:            INT
DATE:                 20000916
TAPE NR:              INTD4504
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):     18:00
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METEOROLOGICAL PARAMETERS

UT	AirT	Hum%	Wspd	Gust	Wdir	Press	LocT	IntT	Mirr	LocRH	IntRH
20:00	16.7	26	14.6	17.5	232	775.0	17.1	19.5	19.0	24	22
21:00	16.4	25	16.7	19.7	225	775.5	16.8	18.3	18.9	24	22
22:00	15.8	24	17.5	19.3	246	776.0	16.2	17.5	18.7	22	21
23:00	15.4	21	25.8	27.8	257	776.2	15.8	16.9	18.6	20	19
00:00	15.4	20	23.7	24.9	259	776.2	15.9	16.8	18.5	19	19
01:00	15.8	22	21.5	23.0	276	776.0	16.1	16.7	18.4	21	20
02:00	15.6	20	23.0	24.9	274	775.5	16.2	16.6	18.3	20	20
03:00	15.6	20	32.7	33.9	275	775.3	16.0	17.0	18.4	19	19
04:00	15.3	30	29.8	31.2	281	774.9	15.7	16.9	18.2	28	26
05:00	15.0	32	27.2	29.7	277	774.8	15.4	16.7	18.1	30	28
06:00	15.5	31	36.7	40.7	279	774.5	16.1	16.8	18.0	28	27

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SUNSET(UT)            19:23
EVENING TWILIGHT(UT)  20:35
MORNING TWILIGHT(UT)  05:38
SUNRISE(UT)           06:50
MOON'S QUARTER (1-4)  3
DISK % OF ILLUM.      87
DARK TIME             09:03
TWILIGHT TIME         02:24
MOONRISE(UT)          21:08
MOONSET(UT)           No moonset within sunset-sunrise

TIME LOST(WEATHER):   00:00
TIME LOST(TECHNICAL): 00:00
TIME LOST(OTHER):     00:00
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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
229853	Bias	0:00:00.00	+00:00:00.0	A	4.262	180.0	13:59:50.9	0.0	Halpha	Narrow-ban	1 x 1	

229854	FLAT - R	19:19:09.00	+12:22:05.0	B1950.00	1.089	180.0	19:37:08.4	2.0	r	Sloan	1 x 1
229855	FLAT - R	19:19:09.68	+12:22:14.9	B1950.00	1.086	180.0	19:39:13.5	4.1	r	Sloan	1 x 1
229856	FLAT - R	19:19:10.36	+12:22:24.9	B1950.00	1.084	180.0	19:40:55.9	8.1	r	Sloan	1 x 1
229857	FLAT - R	19:19:11.04	+12:22:34.9	B1950.00	1.081	180.0	19:42:43.9	14.1	r	Sloan	1 x 1
229858	FLAT - R	19:19:11.72	+12:22:44.9	B1950.00	1.079	180.0	19:44:29.7	26.1	r	Sloan	1 x 1
229859	FLAT - I	19:19:12.41	+12:22:54.9	B1950.00	1.077	180.0	19:46:31.1	26.1	i	Sloan	1 x 1
229860	FLAT - I	19:19:13.09	+12:23:04.9	B1950.00	1.074	180.0	19:48:28.6	26.1	i	Sloan	1 x 1
229861	FLAT - I	19:19:13.77	+12:23:15.0	B1950.00	1.072	180.0	19:50:27.0	60.0	i	Sloan	1 x 1
229862	FLAT - I	19:19:14.46	+12:23:25.0	B1950.00	1.069	180.0	19:53:00.5	90.0	i	Sloan	1 x 1
229863	BIAS	19:19:15.14	+12:23:34.9	B1950.00	1.066	180.0	19:56:42.9	0.0	r	Sloan	1 x 1
229864	BIAS	19:19:15.14	+12:23:35.0	B1950.00	1.065	180.0	19:57:42.3	0.0	r	Sloan	1 x 1
229865	BIAS	19:19:15.14	+12:23:35.0	B1950.00	1.064	180.0	19:58:41.6	0.0	r	Sloan	1 x 1
229866	BIAS	19:19:15.14	+12:23:34.9	B1950.00	1.063	180.0	19:59:39.5	0.0	r	Sloan	1 x 1
229867	BIAS	19:19:15.14	+12:23:34.9	B1950.00	1.062	180.0	20:00:37.8	0.0	r	Sloan	1 x 1
229868	BIAS	19:19:15.14	+12:23:35.0	B1950.00	1.062	180.0	20:01:35.8	0.0	r	Sloan	1 x 1
229869	BIAS	19:19:15.14	+12:23:35.0	B1950.00	1.061	180.0	20:02:33.8	0.0	r	Sloan	1 x 1
229870	BIAS	19:19:15.14	+12:23:35.0	B1950.00	1.060	180.0	20:03:31.5	0.0	r	Sloan	1 x 1
229871	Focus run	19:04:29.83	+08:20:17.0	J2000.00	1.067	180.0	20:26:43.2	10.1	r	Sloan	1 x 1
229872	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.791	180.0	20:37:20.6	299.8	r	Sloan	1 x 1
229873	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.746	180.0	20:44:31.2	299.9	r	Sloan	1 x 1
229874	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.707	180.0	20:51:17.8	299.8	r	Sloan	1 x 1
229875	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.670	180.0	20:58:04.3	299.7	r	Sloan	1 x 1
229876	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.635	180.0	21:04:51.2	299.8	r	Sloan	1 x 1
229877	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.601	180.0	21:11:37.6	299.9	r	Sloan	1 x 1
229878	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.570	180.0	21:18:25.1	299.9	r	Sloan	1 x 1
229879	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.540	180.0	21:25:12.4	299.8	r	Sloan	1 x 1
229880	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.512	180.0	21:31:59.4	299.7	r	Sloan	1 x 1
229881	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.485	180.0	21:38:45.7	299.8	r	Sloan	1 x 1
229882	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.468	180.0	21:45:47.4	0.0	r	Sloan	1 x 1
229883	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.453	180.0	21:47:29.9	299.8	r	Sloan	1 x 1
229884	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.429	180.0	21:54:16.3	299.7	r	Sloan	1 x 1
229885	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.407	180.0	22:01:03.1	299.8	r	Sloan	1 x 1
229886	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.386	180.0	22:07:48.7	299.8	r	Sloan	1 x 1
229887	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.366	180.0	22:14:34.1	299.9	r	Sloan	1 x 1
229888	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.347	180.0	22:21:21.4	299.9	r	Sloan	1 x 1
229889	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.330	180.0	22:28:08.5	299.8	r	Sloan	1 x 1
229890	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.313	180.0	22:34:54.8	299.9	r	Sloan	1 x 1
229891	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.297	180.0	22:41:42.7	299.3	r	Sloan	1 x 1
229892	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.282	180.0	22:48:29.7	299.7	r	Sloan	1 x 1
229893	BIAS	23:57:30.80	+56:43:41.8	J2000.00	1.269	180.0	22:57:14.5	0.0	r	Sloan	1 x 1
229894	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.249	180.0	23:05:05.8	299.8	r	Sloan	1 x 1
229895	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.237	180.0	23:11:51.7	299.3	r	Sloan	1 x 1
229896	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.226	180.0	23:18:39.2	299.7	r	Sloan	1 x 1
229897	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.215	180.0	23:25:25.5	299.7	r	Sloan	1 x 1
229898	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.205	180.0	23:32:12.6	299.8	r	Sloan	1 x 1
229899	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.196	180.0	23:38:59.6	299.2	r	Sloan	1 x 1
229900	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.188	180.0	23:45:46.9	299.8	r	Sloan	1 x 1
229901	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.180	180.0	23:52:34.3	299.8	r	Sloan	1 x 1
229902	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.173	180.0	23:59:21.7	299.8	r	Sloan	1 x 1
229903	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.166	180.0	00:06:07.4	299.7	r	Sloan	1 x 1
229904	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.160	180.0	00:12:55.2	299.8	r	Sloan	1 x 1
229905	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.157	180.0	00:19:27.4	0.0	r	Sloan	1 x 1
229906	NGC7789 - R	23:57:30.81	+56:43:41.9	J2000.00	1.153	180.0	00:22:32.2	299.8	r	Sloan	1 x 1
229907	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.147	180.0	00:30:31.9	299.8	r	Sloan	1 x 1
229908	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.143	180.0	00:37:19.8	299.8	r	Sloan	1 x 1
229909	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.140	180.0	00:44:06.3	299.8	r	Sloan	1 x 1
229910	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.137	180.0	00:50:52.1	299.8	r	Sloan	1 x 1
229911	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.135	180.0	00:57:39.3	299.8	r	Sloan	1 x 1
229912	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.134	180.0	01:04:25.4	299.8	r	Sloan	1 x 1
229913	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.133	180.0	01:11:12.5	299.9	r	Sloan	1 x 1
229914	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.132	180.0	01:18:00.2	299.8	r	Sloan	1 x 1
229915	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.132	180.0	01:26:28.8	0.0	r	Sloan	1 x 1

229916	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.132	180.0	01:28:17.3	299.8	r	Sloan	1 x 1
229917	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.133	180.0	01:35:05.4	299.8	r	Sloan	1 x 1
229918	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.134	180.0	01:41:52.8	299.7	r	Sloan	1 x 1
229919	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.136	180.0	01:48:38.9	299.8	r	Sloan	1 x 1
229920	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.139	180.0	01:55:24.7	299.8	r	Sloan	1 x 1
229921	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.142	180.0	02:02:11.0	299.8	r	Sloan	1 x 1
229922	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.145	180.0	02:08:55.8	299.6	r	Sloan	1 x 1
229923	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.149	180.0	02:15:44.2	299.8	r	Sloan	1 x 1
229924	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.154	180.0	02:22:30.1	299.9	r	Sloan	1 x 1
229925	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.159	180.0	02:29:15.8	299.8	r	Sloan	1 x 1
229926	BIAS	23:57:30.81	+56:43:41.7	J2000.00	1.167	180.0	02:40:09.2	0.0	r	Sloan	1 x 1
229927	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.171	180.0	02:41:56.2	299.8	r	Sloan	1 x 1
229927	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.171	180.0	02:41:56.2	299.8	r	Sloan	1 x 1
229928	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.178	180.0	02:48:42.6	299.7	r	Sloan	1 x 1
229928	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.178	180.0	02:48:42.6	299.7	r	Sloan	1 x 1
229929	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.186	180.0	02:55:29.4	299.8	r	Sloan	1 x 1
229929	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.186	180.0	02:55:29.4	299.8	r	Sloan	1 x 1
229930	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.194	180.0	03:02:15.9	299.7	r	Sloan	1 x 1
229930	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.194	180.0	03:02:15.9	299.7	r	Sloan	1 x 1
229931	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.203	180.0	03:09:03.2	299.8	r	Sloan	1 x 1
229931	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.203	180.0	03:09:03.2	299.8	r	Sloan	1 x 1
229932	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.213	180.0	03:15:53.0	299.8	r	Sloan	1 x 1
229932	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.213	180.0	03:15:53.0	299.8	r	Sloan	1 x 1
229933	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.223	180.0	03:22:38.3	299.8	r	Sloan	1 x 1
229933	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.223	180.0	03:22:38.3	299.8	r	Sloan	1 x 1
229934	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.234	180.0	03:29:25.0	299.8	r	Sloan	1 x 1
229934	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.234	180.0	03:29:25.0	299.8	r	Sloan	1 x 1
229935	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.246	180.0	03:36:13.6	299.9	r	Sloan	1 x 1
229935	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.246	180.0	03:36:13.6	299.9	r	Sloan	1 x 1
229936	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.259	180.0	03:42:59.5	299.3	r	Sloan	1 x 1
229936	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.259	180.0	03:42:59.5	299.3	r	Sloan	1 x 1
229937	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.272	180.0	03:49:38.4	299.8	r	Sloan	1 x 1
229937	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.272	180.0	03:49:38.4	299.8	r	Sloan	1 x 1
229938	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.286	180.0	03:56:25.3	299.8	r	Sloan	1 x 1
229938	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.286	180.0	03:56:25.3	299.8	r	Sloan	1 x 1
229939	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.305	180.0	04:07:08.8	0.0	r	Sloan	1 x 1
229939	BIAS	23:57:30.81	+56:43:41.8	J2000.00	1.305	180.0	04:07:08.8	0.0	r	Sloan	1 x 1
229940	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.315	180.0	04:08:51.3	299.8	r	Sloan	1 x 1
229940	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.315	180.0	04:08:51.3	299.8	r	Sloan	1 x 1
229941	NGC7789 - R	23:57:30.81	+56:43:41.9	J2000.00	1.332	180.0	04:15:39.1	299.8	r	Sloan	1 x 1
229941	NGC7789 - R	23:57:30.81	+56:43:41.9	J2000.00	1.332	180.0	04:15:39.1	299.8	r	Sloan	1 x 1
229942	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.350	180.0	04:22:24.3	299.8	r	Sloan	1 x 1
229942	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.350	180.0	04:22:24.3	299.8	r	Sloan	1 x 1
229943	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.369	180.0	04:29:11.0	299.8	r	Sloan	1 x 1
229943	NGC7789 - R	23:57:30.80	+56:43:41.8	J2000.00	1.369	180.0	04:29:11.0	299.8	r	Sloan	1 x 1
229944	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.389	180.0	04:35:57.6	299.3	r	Sloan	1 x 1
229944	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.389	180.0	04:35:57.6	299.3	r	Sloan	1 x 1
229945	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.410	180.0	04:42:37.5	299.9	r	Sloan	1 x 1
229945	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.410	180.0	04:42:37.5	299.9	r	Sloan	1 x 1
229946	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.432	180.0	04:49:24.4	299.7	r	Sloan	1 x 1
229946	NGC7789 - R	23:57:30.81	+56:43:41.8	J2000.00	1.432	180.0	04:49:24.4	299.7	r	Sloan	1 x 1
229947	BIAS	23:57:30.80	+56:43:41.8	J2000.00	1.446	180.0	04:56:03.2	0.0	r	Sloan	1 x 1
229947	BIAS	23:57:30.80	+56:43:41.8	J2000.00	1.446	180.0	04:56:03.2	0.0	r	Sloan	1 x 1
229948	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.254	180.0	05:00:03.8	319.8	r	Sloan	1 x 1
229948	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.254	180.0	05:00:03.8	319.8	r	Sloan	1 x 1
229949	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.276	180.0	05:07:06.9	319.8	r	Sloan	1 x 1
229949	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.276	180.0	05:07:06.9	319.8	r	Sloan	1 x 1
229950	M31-microfld1	0:43:59.99	+41:33:59.9	J2000.00	1.300	180.0	05:14:07.3	319.8	i	Sloan	1 x 1
229950	M31-microfld1	0:43:59.99	+41:33:59.9	J2000.00	1.300	180.0	05:14:07.3	319.8	i	Sloan	1 x 1
229951	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.326	180.0	05:21:07.8	319.7	i	Sloan	1 x 1
229951	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.326	180.0	05:21:07.8	319.7	i	Sloan	1 x 1
229952	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.361	180.0	05:29:14.5	319.8	r	Sloan	1 x 1

229952	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.361	180.0	05:29:14.5	319.8	r	Sloan	1 x 1
229953	M31-microfld2	0:43:09.99	+40:58:15.0	J2000.00	1.391	180.0	05:36:14.6	319.9	r	Sloan	1 x 1
229953	M31-microfld2	0:43:09.99	+40:58:15.0	J2000.00	1.391	180.0	05:36:14.6	319.9	r	Sloan	1 x 1
229954	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.423	180.0	05:43:14.5	319.3	r	Sloan	1 x 1
229954	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.423	180.0	05:43:14.5	319.3	r	Sloan	1 x 1
229955	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.457	180.0	05:50:15.3	319.7	r	Sloan	1 x 1
229955	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.457	180.0	05:50:15.3	319.7	r	Sloan	1 x 1
229956	BIAS	0:43:09.99	+40:58:15.0	J2000.00	1.478	180.0	05:57:01.5	0.0	r	Sloan	1 x 1
229956	BIAS	0:43:09.99	+40:58:15.0	J2000.00	1.478	180.0	05:57:01.5	0.0	r	Sloan	1 x 1
229957	BIAS	0:43:09.99	+40:58:15.0	J2000.00	1.484	180.0	05:58:00.9	0.0	r	Sloan	1 x 1
229957	BIAS	0:43:09.99	+40:58:15.0	J2000.00	1.484	180.0	05:58:00.9	0.0	r	Sloan	1 x 1
229958	BIAS	0:43:09.99	+40:58:14.9	J2000.00	1.489	180.0	05:58:59.1	0.0	r	Sloan	1 x 1
229958	BIAS	0:43:09.99	+40:58:14.9	J2000.00	1.489	180.0	05:58:59.1	0.0	r	Sloan	1 x 1
229960	BIAS	0:43:10.00	+40:58:15.0	J2000.00	1.500	180.0	06:01:03.6	0.0	r	Sloan	1 x 1
229960	BIAS	0:43:10.00	+40:58:15.0	J2000.00	1.500	180.0	06:01:03.6	0.0	r	Sloan	1 x 1
229961	BIAS	0:43:09.99	+40:58:14.9	J2000.00	1.506	180.0	06:02:02.5	0.0	r	Sloan	1 x 1
229961	BIAS	0:43:09.99	+40:58:14.9	J2000.00	1.506	180.0	06:02:02.5	0.0	r	Sloan	1 x 1
229962	BIAS	0:43:09.99	+40:58:15.0	J2000.00	1.511	180.0	06:03:01.3	0.0	r	Sloan	1 x 1
229962	BIAS	0:43:09.99	+40:58:15.0	J2000.00	1.511	180.0	06:03:01.3	0.0	r	Sloan	1 x 1
229963	BIAS	0:43:10.00	+40:58:14.9	J2000.00	1.517	180.0	06:03:59.7	0.0	r	Sloan	1 x 1
229963	BIAS	0:43:10.00	+40:58:14.9	J2000.00	1.517	180.0	06:03:59.7	0.0	r	Sloan	1 x 1
229964	BIAS	0:43:09.99	+40:58:15.0	J2000.00	1.522	180.0	06:04:57.3	0.0	r	Sloan	1 x 1
229964	BIAS	0:43:09.99	+40:58:15.0	J2000.00	1.522	180.0	06:04:57.3	0.0	r	Sloan	1 x 1
229965	BIAS	0:43:10.00	+40:58:14.9	J2000.00	1.528	180.0	06:05:54.6	0.0	r	Sloan	1 x 1
229965	BIAS	0:43:10.00	+40:58:14.9	J2000.00	1.528	180.0	06:05:54.6	0.0	r	Sloan	1 x 1
229966	BIAS	0:43:10.00	+40:58:14.9	J2000.00	1.533	180.0	06:06:51.9	0.0	r	Sloan	1 x 1
229966	BIAS	0:43:10.00	+40:58:14.9	J2000.00	1.533	180.0	06:06:51.9	0.0	r	Sloan	1 x 1
229967	BIAS	0:43:10.00	+40:58:15.0	J2000.00	1.539	180.0	06:07:49.2	0.0	r	Sloan	1 x 1
229967	BIAS	0:43:10.00	+40:58:15.0	J2000.00	1.539	180.0	06:07:49.2	0.0	r	Sloan	1 x 1