

1994 multisite photometry of the δ Scuti star θ^2 Tau

M. Breger¹, W. Zima¹, R. Garrido², G. Handler¹, P. Reegen¹, R. Zechner¹

¹ Institut für Astronomie, Türkenschanzstrasse 17, 1180 Vienna, Austria

² Instituto de Astrofísica de Andalucía, SCIC, Apdo. 3004, E-18080 Granada, Spain

Abstract

The 1994 multisite photometry of the δ Scuti star θ^2 Tau, obtained by the Delta Scuti Network, is presented.

During 1994 November and December, a multisite photometric campaign to study θ^2 Tau was organized utilizing the Delta Scuti Network. θ^2 Tau was measured photometrically with the Three-Star-Technique at a number of observatories spaced around the globe. 152 hours of photometry at four observatories could be used. The telescopes used were: the 0.8m reflector at Lowell Observatory (USA), the 0.9m telescope at McDonald Observatory (USA), the 0.9m telescope at Sierra Nevada Observatory (Spain), and the 0.6m reflector at the XingLong station of Beijing Astronomical Observatory (China). Details of the observations as well as the astrophysical results obtained from these measurements can be found in Breger et al. (2002).

This article presents the table of measurements used in the analysis in order to preserve the data for the future. At the present time, the data can also be obtained from the first author electronically.

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References

Breger, M., Pamyatnykh, A.A., Zima, W., Garrido, R., Handler, G., Reegen, P. 2002, MNRAS 336, 249

Table 1: The frequency spectrum of θ^2 Tau

HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag
67.18854		-7.7	71.02082	-3.9	0.9	74.23331		-9.8
67.19080		-8.9	71.68329		-12.9	74.23746		-12.3
67.19470		-5.3	71.69274		-9.9	74.23954		-7.6
67.19721		-9.7	71.69957		-8.2	74.24295		-20.3
67.20404		-9.5	71.70548	-7.3	-6.9	74.24491		-20.6
67.21839		-7.8	71.71145	-4.9	-2.8	74.24869		-12.9
67.22052		-3.0	71.71817	-4.7	-3.1	74.25040		-15.0
67.22595		-2.3	71.72569	-4.4	-1.8	74.25565		-23.3
70.70247	-6.1	-6.1	71.73195	-5.5	-5.3	74.25791		-7.4
70.71172	-6.7	-4.2	71.73868	-8.6	-9.9	74.26163		-9.6
70.72368	-3.4	0.6	71.74501	-9.8	-12.3	74.26810		-12.4
70.73017	-7.3	-5.5	71.75139	-14.1	-15.0	74.27280		-6.6
70.73723	-6.4	-6.5	71.75801	-16.0	-14.8	74.27500		-4.6
70.74449	-13.4	-14.1	71.76369	-16.7	-16.4	74.27872		0.4
70.75125	-15.3	-18.9	71.76946	-16.1	-15.6	74.28379		1.6
70.76972	-18.8	-24.7	71.77498	-12.9	-13.4	74.28781		-0.7
70.77811	-10.1	-11.3	71.78204	-8.9	-6.2	74.29361		-1.0
70.78416	-4.3	-4.2	71.79199	-7.8	-2.7	74.30149		1.2
70.78986	0.6	1.3	71.79829	-7.5	-2.6	74.30503		0.4
70.79550	0.0	4.0	71.82142	-10.5	-8.2	74.31052		-10.6
70.80196	-1.2	1.1	71.82727	-13.4	-12.1	74.31308		-19.8
70.80832	-6.3	-4.2	71.83300	-14.4	-13.9	74.31821		-21.5
70.81548	-11.2	-11.8	71.83863	-14.7	-16.8	74.32144		-19.9
70.82334	-19.0	-20.6	71.84459	-12.7	-15.1	74.32321		-17.2
70.82996	-23.4	-27.8	71.85051	-12.6	-10.7	74.32645		-16.0
70.83670	-21.2	-29.9	71.85752	-11.1	-10.8	74.32846		-19.1
70.84268	-19.1	-23.9	71.86410	-10.5	-8.3	74.33200		-13.8
70.85603	-6.2	-8.7	71.87001	-9.9	-9.9	74.33390		-19.5
70.86215	-1.2	1.6	71.87655	-8.8	-8.9	74.33744		-8.3
70.86803	3.0	7.2	71.88276	-7.5	-6.1	74.33982		-7.6
70.88740	-4.6	-3.0	71.88835	-5.7	-3.8	74.34342		-10.3
70.89326	-12.7	-14.9	71.89447	-6.4	-2.4	74.34629		-4.9
70.89898	-16.6	-20.6	71.90044	-10.0	-6.2	78.78122		-16.4
70.90477	-21.5	-26.0	71.92049	-13.6	-13.8	78.78470		-16.6
70.91060	-23.0	-32.0	71.92682	-12.3	-12.9	78.78828		-16.8
70.91743	-18.6	-24.8	71.93375	-11.6	-12.4	78.79066		-14.5
70.92588	-6.6	-12.6	71.94042	-11.5	-14.2	78.79395		-15.2
70.93224	-2.8	-3.3	71.95371	-10.4	-9.5	78.79754		-15.5
70.93846	-1.3	3.6	71.98089	-9.6	-11.3	78.80148		-14.1
70.94488	1.4	6.0	71.98655	-12.1	-11.7	78.80495		-10.8
70.95118	-1.2	1.6	71.99343	-15.0	-16.5	78.80848		-11.0
70.96898	-14.0	-17.8	71.99911	-14.8	-17.8	79.64182		-9.4
70.97549	-18.4	-23.1	72.00622	-12.9	-21.3	79.64882		-11.5
70.98204	-21.2	-25.8	72.01275	-13.1	-14.8	79.65640		-10.0
70.98864	-18.7	-22.9	72.01846	-12.7	-12.5	79.67209		-7.9
70.99837	-16.0	-14.4	74.22415		-3.0	79.67978		-7.8
71.00474		-11.3	74.22654		-3.2	79.68748		-6.5
71.01217	0.6	3.9	74.23099		-13.2	79.69523		-8.9

HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag
79.70287		-6.9	80.66129	-4.7	-5.5	81.17966		-22.3
79.82006		-8.2	80.66383	-8.6	-14.9	81.18613		-18.4
79.82510		-5.2	80.66617	-12.9	-18.4	81.19101		-20.9
79.82949		-9.3	80.66907	-17.5	-23.0	81.19577		-19.5
79.83337		-11.3	80.67124	-20.5	-20.0	81.20340		-15.5
79.84384		-13.5	80.67394	-19.7	-17.7	81.21048		-20.6
79.84807		-12.7	80.67710	-23.9	-19.9	81.21280		-6.5
79.85201		-15.5	80.68011	-25.6	-20.8	81.21744		-3.5
79.85594		-16.0	80.68255	-29.6	-23.2	81.22031		-3.4
79.86173		-18.3	80.68482	-39.3		81.22477		-6.8
79.86861		-13.4	80.68799	-31.4		81.22733		-4.7
79.87533		-14.7	80.69031	-31.7	-22.9	81.23203		-2.4
79.88210		-14.5	80.69206	-20.8	-15.1	81.25003		-8.8
80.56641	-7.6	-2.6	80.69513	-23.9	-21.0	81.25180		-10.2
80.56933	-7.7	-7.1	80.69718	-22.9	-18.9	81.25693		-16.0
80.57142	-6.3	-5.2	80.69897	-24.2	-17.9	81.26023		-18.4
80.57374	-5.2	-6.3	80.70126	-16.7	-17.7	81.26200		-13.4
80.57624	-8.3	-9.8	80.70312	-12.1	-13.2	81.26511		-19.4
80.57903	-7.2	-9.0	80.70478	-4.2	-9.3	81.27024		-10.7
80.58160	-8.4	-11.4	80.70790	2.6	-3.2	81.28128		-8.5
80.58406	-10.0	-10.0	80.71036	2.5	-2.9	81.28312		-17.7
80.58636	-11.4	-10.4	80.71216	6.1	-0.4	81.28605		-2.4
80.58882	-13.3	-13.8	80.71460	4.1	-1.7	81.28775		-2.6
80.59164	-12.5	-14.4	80.71708	2.7	-4.9	81.30082		-1.4
80.59455	-13.3	-15.3	80.71917	10.8	-2.1	81.30289		-9.4
80.59781	-18.7	-17.2	80.72249	16.7		81.30607		2.0
80.59997	-18.4	-17.8	80.96167		-13.6	81.30808		-6.2
80.60283	-20.8	-19.9	80.96765		-17.8	81.31180		4.2
80.60642	-21.3	-20.4	80.97376		-23.6	81.31376		1.0
80.60905	-24.0	-19.1	80.97770		-21.9	81.31693		-3.8
80.61125	-24.3	-19.8	80.98175		-23.2	81.32218		-1.3
80.61441	-24.8	-20.3	80.98569		-23.2	81.32407		-2.8
80.61753	-20.9	-16.6	80.98950		-19.0	81.32718		-20.8
80.61982	-23.6	-16.5	80.99344		-12.0	81.33280		-7.5
80.62247	-21.6	-16.3	80.99732		-8.3	81.33335	-9.1	-11.0
80.62501	-12.8	-14.3	81.10306		-17.4	81.33457		-19.6
80.62708	-6.2	-9.4	81.10740		-12.2	81.33841		-24.9
80.63110	-3.3	-5.8	81.11142		-15.9	81.33955	-21.3	-21.8
80.63385	-3.7	-4.1	81.11411		-18.1	81.34269	-19.1	-15.6
80.63596	0.2	-3.0	81.11972		-15.3	81.34519	-19.3	-16.8
80.63876	0.3	-0.1	81.12302		-17.3	81.34821	-18.9	-14.9
80.64078	4.1	0.3	81.13987		-11.7	81.35229	-21.0	-18.7
80.64314	6.0	1.9	81.14280		-14.8	81.35587	-18.8	-18.9
80.64565	5.0	1.8	81.14768		-7.3	81.35983	-10.8	-11.5
80.64853	3.6	0.2	81.15061		-5.4	81.36274	-11.4	-9.3
80.65061	4.9	2.5	81.15586		-4.9	81.38191	-0.3	-6.6
80.65250	9.5	-0.2	81.15848		-0.3	81.38479	1.0	-1.4
80.65492	6.4	-0.5	81.16593		-1.4	81.38793	-1.4	-3.5
80.65691	3.0	-2.5	81.16837		-1.7	81.39048	2.2	-0.4
80.65924	-1.6	-2.2	81.17258		-11.4	81.39310	-3.0	-3.3

HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag
81.39842	-5.1	-6.0	81.64000	-21.6	-19.1	82.41036	-1.4	-0.5
81.40149	-6.4	-7.7	81.64264	-21.5	-20.2	82.41280	2.5	-0.6
81.40437	-12.1	-11.7	81.64545	-25.5	-23.0	82.41437	-3.7	-3.2
81.40707	-13.1	-13.6	81.64831	-23.4	-22.5	82.41648	-2.7	-4.5
81.41011	-12.7	-12.1	81.65223	-21.7	-18.2	82.41977	-1.7	-7.4
81.50672	-21.0		81.65501	-24.2	-21.7	82.42189	-2.6	-5.8
81.51035	-17.8	-16.3	81.65818	-20.5	-14.7	82.42372	-7.9	-7.6
81.51293	-19.3	-13.6	81.66123	-15.9	-13.8	82.42612	-9.0	-10.7
81.51541	-15.8	-12.6	81.66397	-15.5	-16.6	82.42785	-11.6	-10.7
81.51758	-12.4	-11.1	81.66715	-10.6	-17.6	82.43028	-12.7	-10.1
81.51975	-10.8	-11.3	81.66960	-7.1	-11.5	82.43246	-13.4	-14.5
81.52239	-9.0	-6.2	81.67211	-5.9	-9.8	82.43432	-20.6	-20.6
81.52433	-7.5	-4.9	81.67426	-5.1	-5.8	82.43601	-19.5	-20.1
81.52664	-9.1	-6.0	81.67736	0.0	-7.9	82.43823	-20.0	-15.2
81.53031	-4.9	-5.9	81.68093	1.5	-3.7	82.43986	-23.4	-19.0
81.53272	-1.9	-4.3	81.68326	6.2	-0.2	82.44170	-22.4	-18.9
81.53526	-2.1	-7.4	81.68592	10.2	0.5	82.44521	-25.7	-19.6
81.53730	-0.8	-5.2	81.68901	7.0	-0.2	82.44737	-18.4	-12.3
81.54130	1.8	-2.3	81.69222	2.0	-0.2	82.45021	-21.3	-14.8
81.54957	-1.3	-4.6	81.69492	3.4	-3.4	82.45281	-18.3	-14.2
81.55367	-2.1	-9.9	81.69744	1.5	-3.7	82.45696	-15.6	-15.8
81.55749	-10.6	-10.4	81.69997	-1.7	-4.9	82.45934	-17.5	-16.9
81.56068	-13.3	-10.0	81.70268	-2.4	-6.0	82.46204	-15.7	-17.8
81.56325	-15.4	-14.7	81.70507	-7.6	-11.8	82.46426	-13.2	-12.0
81.56631	-19.1	-16.9	81.70742	-15.5	-17.7	82.46698	-10.9	-11.3
81.57155	-21.0	-23.2	81.70968	-16.3	-15.6	82.47094	-10.5	-9.3
81.57402	-23.5	-20.7	81.71220	-21.9	-21.6	82.47548	-8.3	-6.8
81.57601	-24.1	-20.0	81.71528	-24.6	-20.2	82.47870	-3.8	-5.6
81.57881	-23.9	-18.7	81.71815	-22.2	-20.6	82.48192	-6.9	-3.6
81.58153	-22.9	-19.2	81.72151	-22.0	-20.8	82.48394	-5.1	-1.3
81.58534	-20.0	-17.7	82.35204	-12.6	-12.3	82.48602	-5.9	-5.2
81.58794	-17.5	-12.5	82.35531	-16.8	-16.1	82.48870	-5.8	-6.8
81.59006	-15.2	-17.6	82.36085	-21.6	-17.7	82.49131	-5.6	-5.2
81.59220	-14.2	-15.1	82.36455	-20.0	-18.2	82.49412	-1.9	-5.9
81.59508	-9.3	-12.9	82.36689	-20.8	-15.9	82.49889	-5.7	-7.2
81.59703	-9.8	-11.7	82.37213	-24.3		82.50118	-6.6	-6.9
81.59890	-10.6	-13.0	82.37902	-13.6	-14.5	82.50331	-7.9	-7.3
81.60197	-9.6	-8.0	82.38161	-16.3	-13.7	82.50629	-10.9	
81.60462	-6.6	-7.4	82.38388	-11.5	-9.8	82.50850	-11.8	-10.7
81.60714	-3.9	-6.6	82.38846	-10.5	-13.3	82.53012	-14.9	-11.1
81.61396	-0.7	-2.2	82.39031	-11.6	-12.0	82.53301	-14.5	-13.0
81.61699	0.4	-3.3	82.39206	-14.3	-11.7	82.53516	-16.9	-14.5
81.61964	1.0	-4.0	82.39470	-5.0	-10.1	82.53728	-15.7	-14.2
81.62219	0.8	-4.2	82.39728	0.9	-3.0	82.54008	-10.0	-6.5
81.62516	-3.8	-5.8	82.39926	-5.3	-6.2	82.54214	-11.4	-9.8
81.62730	-4.3	-7.5	82.40139	-5.9	-7.3	82.54467	-13.2	-9.5
81.62938	-8.2	-8.0	82.40297	-1.5		82.54728	-13.5	-11.4
81.63227	-7.2	-10.9	82.40471	0.5	-1.1	82.54971	-12.7	-14.1
81.63434	-9.6	-14.5	82.40701	7.6		82.55315	-15.4	-12.8
81.63631	-16.5	-18.1	82.40869	-2.1	-0.7	82.55687	-12.4	-10.0

HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag
82.55956	-12.5	-10.9	82.69439	-8.6	-9.1	83.43831	-7.6	-7.1
82.56262	-12.8	-14.0	82.69647	-6.6	-9.2	83.44073	-8.5	-8.3
82.56648	-13.5	-10.7	82.69956	-17.2	-14.1	83.44274	-9.3	-6.1
82.56901	-9.3	-8.3	82.70217	-9.8	-11.5	83.44447	-7.5	-9.0
82.57144	-11.9	-10.5	82.70418	-16.1	-15.5	83.44684	-9.1	-8.5
82.57419	-5.5	-7.1	82.70624	-20.1	-18.0	83.44915	-11.7	-10.3
82.57639	-6.7	-7.2	82.70858	-22.1	-20.4	83.45110	-12.0	-11.0
82.57939	-5.7	-6.9	82.71173	-20.8		83.45336	-12.4	-11.2
82.58204	-9.0	-5.4	82.71476	-22.9		83.45544	-13.2	-8.8
82.58452	-5.8	-3.5	82.71713	-16.8		83.45803	-12.8	-9.5
82.58700	-3.9	-2.2	83.34169	-11.8	-10.5	83.46046	-13.9	-13.4
82.59056	-5.0	-7.4	83.34448	-7.5	-5.2	83.46244	-11.8	-10.7
82.59328	-6.7	-7.0	83.34686	-5.3	-6.8	83.46631	-17.5	-14.6
82.59543	-8.8	-8.7	83.34928	-5.2	-10.4	83.46831	-15.7	-10.4
82.59747	-10.3	-9.8	83.35136	-7.1	-6.9	83.47026	-18.0	-10.8
82.60053	-8.9	-10.6	83.35361	-12.4	-10.8	83.47206	-19.6	-14.8
82.60324	-10.8	-12.9	83.35661	-9.4	-9.9	83.47388	-20.0	-17.3
82.60677	-8.1	-11.1	83.35887	-5.3	-7.4	83.47609	-17.8	-13.9
82.60937	-13.0	-14.4	83.36140	-5.4	-5.4	83.47903	-17.2	-10.7
82.61193	-12.2	-11.5	83.36361	-2.1	-5.1	83.48084	-15.8	-13.7
82.61582	-16.8	-13.8	83.36621	-8.4	-12.0	83.48272	-15.4	-14.9
82.61842	-18.5	-14.6	83.36810	-4.7	-9.9	83.48512	-14.0	-12.1
82.62092	-15.7	-12.2	83.37090	-7.6	-10.8	83.48758	-12.9	-11.4
82.62460	-18.3	-16.7	83.37306	-9.2	-9.8	83.49027	-10.5	-9.7
82.62681	-19.7	-18.1	83.37486	-11.6	-12.0	83.49203	-11.2	-11.5
82.62894	-21.0	-21.0	83.37750	-7.6	-8.1	83.49384	-8.3	-10.1
82.63217	-20.5	-19.7	83.37940	-8.0	-7.3	83.49786	-5.9	-4.5
82.63442	-21.5	-19.3	83.38132	-11.4	-7.6	83.50002	-6.4	-8.1
82.63771	-19.6	-18.0	83.38342	-11.1	-8.0	83.50180	-3.6	-4.5
82.64082	-17.2	-16.8	83.38565	-14.3	-12.6	83.50487	-1.8	-5.0
82.64267	-14.7	-16.8	83.38866	-13.4	-13.2	83.50924	-5.2	-6.2
82.64501	-14.5	-16.6	83.39129	-13.0	-12.4	83.51229	-6.4	-7.5
82.64785	-16.6	-14.7	83.39355	-13.2	-10.1	83.51799	-1.1	-4.0
82.64977	-10.5	-7.5	83.39602	-12.6	-10.5	83.52257	-5.4	-8.8
82.65206	-12.8	-10.2	83.39818	-17.1	-16.1	83.52692	-9.7	-7.9
82.65539	-9.1	-9.5	83.40080	-19.0	-15.0	83.52967	-15.7	-12.9
82.65843	-3.1	-4.6	83.40478	-15.4	-12.1	83.53152	-13.4	-11.0
82.66110	-3.1	-5.4	83.40721	-16.2	-13.0	83.53417	-17.8	-10.6
82.66339	-4.9	-6.1	83.41084	-18.5	-14.0	83.53632	-18.0	-14.7
82.66601	-4.6	-6.0	83.41364	-14.6	-13.4	83.53844	-20.6	-16.8
82.66832	-5.0	-5.4	83.41585	-13.0	-11.8	83.54169	-18.5	-15.9
82.67158	3.1	-1.0	83.41847	-10.2	-9.8	83.54382	-18.3	-14.8
82.67367	0.4	-4.4	83.42111	-9.8	-9.5	83.54599	-19.9	-17.9
82.67616	-2.3	-6.5	83.42277	-8.4	-4.0	83.54915	-20.9	-17.0
82.67894	0.3	-6.5	83.42496	-7.4	-6.7	83.55137	-21.6	-18.5
82.68163	-2.4	-6.9	83.42705	-7.4	-8.7	83.55417	-18.1	-13.6
82.68405	-5.1	-4.7	83.42899	-5.4	-6.6	83.55675	-15.6	-13.1
82.68715	-9.7	-11.9	83.43059	-4.0	-4.0	83.55942	-16.3	-13.4
82.68949	-10.8	-12.4	83.43428	-3.5	-5.9	83.56269	-12.2	-12.3
82.69174	-8.6	-9.8	83.43625	-6.8	-6.6	83.56561	-13.1	-11.7

HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag
83.56770	-8.2	-7.3	83.69877	-16.8	-18.1	84.42062	2.5	-1.3
83.56986	-9.4	-6.6	83.70159	-11.6	-14.5	84.42267	0.7	1.7
83.57361	-7.8	-7.8	83.70418	-11.4	-12.3	84.42470	4.1	1.0
83.57656	-5.7	-7.3	83.70616	-12.4	-11.0	84.42664	-0.4	-2.8
83.57942	-4.6	-7.3	83.70846	-7.1	-7.2	84.42855	4.3	1.1
83.58257	-5.2	-3.3	83.71002	-11.0	-13.5	84.43139	4.1	-0.1
83.58520	-5.1	-5.2	83.71186	-3.7	-6.6	84.43361	7.6	3.0
83.58740	-2.7	-5.4	83.71409	-4.3	-5.0	84.43576	3.3	1.8
83.58953	-2.9	-2.6	83.71599	-10.1	-15.1	84.43804	-1.1	-2.4
83.59221	-8.7	-5.0	83.71776	-1.2		84.44059	-1.0	-2.5
83.59491	-7.9	-9.2	83.71970	-2.2	-7.6	84.44267	-5.3	-5.5
83.59710	-6.8	-6.0	83.72163	-0.2	-4.8	84.44536	-8.6	-7.0
83.59917	-9.8	-11.4	84.26471		-14.5	84.44746	-9.5	-7.7
83.60114	-11.3	-11.3	84.26935		-9.5	84.45032	-10.8	-10.2
83.60416	-11.1	-11.0	84.27228		-8.5	84.45260	-15.1	-12.7
83.60689	-10.4	-12.8	84.27637		-10.7	84.45480	-20.5	-13.0
83.60932	-10.6	-11.2	84.27906		-6.9	84.45739	-14.1	-11.7
83.61301	-19.4	-18.6	84.29352		-7.0	84.45955	-21.6	-17.2
83.61605	-16.4	-16.0	84.29719		-9.0	84.46278	-27.7	-23.7
83.61844	-16.5	-15.8	84.30390		-12.4	84.46487	-27.5	-17.0
83.62043	-18.7	-14.9	84.31269		-15.7	84.46702	-30.7	-20.3
83.62322	-18.5	-16.7	84.33980	-6.1	-6.5	84.46929	-28.2	-21.9
83.62621	-20.5	-16.5	84.34195	-7.4	-4.3	84.47239	-23.6	-17.0
83.62825	-21.5	-17.8	84.34640	-5.1	-3.5	84.47442	-24.4	-18.0
83.63070	-17.6	-16.4	84.34971	4.4	3.2	84.47858	-21.8	-16.5
83.63274	-13.3	-17.4	84.35171	0.8	-4.5	84.48087	-18.4	-16.7
83.63468	-12.4	-13.1	84.35372	4.2	4.6	84.48277	-15.5	-14.4
83.63725	-14.7	-10.8	84.35721	3.1	2.1	84.48698	-7.3	-8.0
83.63935	-13.0	-14.6	84.35996	5.8	0.7	84.48915	-4.1	-7.5
83.64196	-9.6	-8.1	84.36212	-4.1	-5.3	84.49104	-2.2	-3.6
83.64477	-10.7	-9.6	84.36453	-1.7	-6.1	84.49355	0.3	-1.9
83.64715	-7.6	-8.7	84.36812		-2.7	84.49599	0.0	-5.6
83.65015	-5.6	-8.3	84.37065	-1.5	-4.5	84.49847	3.0	-4.5
83.65302	-6.3	-5.8	84.37362	-9.0	-8.6	84.50129	4.4	-2.1
83.65519	-2.4	-3.6	84.37558	-5.3	-3.8	84.50400	5.6	1.0
83.65750	-6.1	-10.1	84.37844	-18.2	-14.0	84.50807	4.3	-1.4
83.65962	-3.9	-7.9	84.38151	-22.3	-17.5	84.51038	2.3	-1.4
83.66262	-7.8	-8.0	84.38380	-15.8	-13.0	84.51311	-1.7	-3.9
83.66580	-8.2	-8.4	84.38572	-13.0	-13.6	84.51535	-3.7	-5.2
83.66864	-9.8	-14.0	84.38964	-24.0	-17.3	84.51786	-2.9	-4.4
83.67107	-7.2	-10.3	84.39270	-21.7	-13.0	84.52023	-6.6	-6.4
83.67316	-8.4	-8.9	84.39489	-25.1	-20.1	84.52392	-10.1	-13.6
83.67627	-15.4	-18.4	84.39855	-25.0	-21.4	84.52673	-15.2	-14.0
83.67861	-9.8	-13.2	84.40144	-21.6	-18.9	84.52894	-14.0	-13.1
83.68232	-16.9		84.40466	-18.7	-17.6	84.53290	-18.1	-17.1
83.68529	-16.5	-16.1	84.40825	-11.5	-6.8	84.53587	-19.4	-18.0
83.68777	-17.9	-15.2	84.41042	-14.1	-12.2	84.53856	-19.8	-18.1
83.68979	-21.4	-15.1	84.41329	-9.3	-6.6	84.54407	-22.2	-17.7
83.69405	-17.7	-15.0	84.41553	-3.3	-2.9	84.54664	-25.2	-17.1
83.69644	-20.7	-17.9	84.41762	-1.6	0.2	84.54915	-21.0	-16.2

HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag
84.55166	-17.5	-16.9	84.68631	-19.6	-17.3	85.06666		-3.9
84.55533	-9.6	-12.5	84.68711		-14.8	85.06904		-10.9
84.55809	-9.3	-11.3	84.68793	-12.8	-17.5	85.07319		-13.5
84.56061	-7.4	-9.6	84.69014	-8.8		85.07526		-4.9
84.56326	-2.3	-7.5	84.69058		-14.2	85.07941		-10.9
84.56685	3.6	-4.0	84.69293	-7.7		85.08173		-14.3
84.56977	2.8	-2.1	84.69406		-14.4	85.08564		-8.5
84.57251	2.8	2.7	84.69547	-15.0	-14.1	85.08777		-8.3
84.57530	0.4	-5.5	84.69550	-13.1	-17.1	85.09137		-1.2
84.57912	6.1	0.0	84.69753		-13.5	85.09363		-4.4
84.58225	3.1	-2.3	84.69811	-12.0	-8.4	85.09937		-11.2
84.58489	2.4	-1.0	84.70074	-6.1	-5.5	85.10175		-10.6
84.58871	4.5	1.9	84.70100		-10.8	85.10560		-1.4
84.59178	0.8	1.2	84.70355	-7.7	-11.7	85.10767		-0.5
84.59439	-3.3	-5.3	84.70447		-10.8	85.11115		-5.3
84.59822	-6.0	-13.9	84.70654	-9.9	-9.9	85.11652		-3.4
84.60068	-10.4	-13.2	84.70771		-9.3	85.11835		-12.6
84.60309	-12.6	-16.0	84.70841	-4.9	-13.6	85.12616		-8.7
84.60664	-15.8	-15.3	84.71104	-0.5	-5.7	85.13050		-14.4
84.60998	-18.7	-18.9	84.71355	-6.9	-5.4	85.13251		-8.1
84.61242	-15.8	-18.4	84.71357	-5.7	-10.2	85.13575		-13.2
84.61620	-12.1	-19.0	84.71454		-6.6	85.13788		-21.2
84.61865	-17.3	-18.0	84.71801		-6.5	85.14124		-12.9
84.62113	-16.4	-15.1	84.72046	-5.4	-4.3	85.14350		-9.6
84.62458	-11.5	-15.9	84.72755	-6.4	-4.0	85.14679		-15.8
84.62717	-12.7	-12.8	84.73472	-7.4	-6.8	85.14881		-4.3
84.63024	-7.9	-13.0	84.74208	-10.0	-8.2	85.15217		-10.1
84.63373	-0.3	-7.4	84.74867	-12.0	-15.3	85.15387		-20.3
84.63631	-4.1	-7.0	84.75655	-16.8	-16.6	85.15833		-5.2
84.63901	-2.8	-7.6	84.84933	-12.8	-15.4	85.16077		-1.1
84.64637	5.9	-1.2	84.85547	-14.6	-13.2	85.16407		-15.4
84.65632		-6.7	84.86181	-10.7	-11.8	85.16602		-1.6
84.65660	-1.8	-3.8	84.86799	-9.2	-7.6	85.16938		-4.0
84.65923	-2.8	-4.7	84.87447	-6.1	-5.9	85.17133		5.7
84.65980		-7.8	84.88252	-4.9	-7.2	85.17475		6.2
84.66275	1.0	-4.8	84.88855	-4.0	-7.4	85.17658		3.1
84.66327		-8.9	84.89512	-7.4	-5.0	85.17969		2.3
84.66533	-8.5	-12.1	84.90141	-8.3	-4.9	85.18177		0.2
84.66639		-8.9	84.90783	-13.5	-8.3	85.18494		-1.8
84.66786	-5.8	-11.8	84.91429	-14.1	-13.5	85.18720		-5.5
84.67203	-2.8	-9.2	84.92019	-17.5	-15.6	85.19031		-6.1
84.67322		-12.2	84.93795	-13.5	-14.9	85.19239		-5.8
84.67473	-10.2	-14.5	84.94487	-9.0	-9.5	85.19556		-13.9
84.67584		-14.9	84.95128	-7.0	-4.9	85.19751		-18.1
84.67670		-15.7	84.95805	-5.0	-4.1	85.20215		-22.2
84.67761	-14.1	-17.5	84.96480	-6.7	-6.9	85.20411		-9.3
84.68017		-15.8	84.97154	-6.6	-3.2	85.20752		-18.2
84.68032	-11.4	-13.6	84.97832	-5.4	-5.2	85.20966		-20.0
84.68310	-17.2	-17.0	84.98491	-10.1	-3.5	85.21296		-15.4
84.68364		-14.6	84.99092	-11.0	-7.8	85.21497		-11.5

HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag
85.21869		-20.4	85.74389	-14.0	-15.9	86.74334	-12.9	-13.6
85.22156		-16.4	85.74946	-13.1	-13.3	86.74889	-10.6	-15.6
85.22480		-14.7	85.75555	-10.4	-8.7	86.75447	-12.5	-13.3
85.22663		-5.1	85.76136	-8.5	-9.2	86.76055	-9.3	-13.3
85.22980		-10.0	85.76709	-6.5	-8.9	86.76665	-8.8	-6.6
85.23145		-16.5	85.78848	-12.4	-14.8	86.77223	-7.4	-6.0
85.23426		2.4	85.79483	-9.3	-11.9	86.77766	-7.7	-9.7
85.23633		-0.6	85.80442	-14.6	-11.8	86.78336	-6.9	-12.6
85.23963		-1.3	85.81032	-12.0	-15.5	86.78399		-7.5
85.24146		0.9	85.81604	-11.4	-16.6	86.78874		-9.5
85.24445		4.7	85.82209	-8.6	-12.6	86.78884	-9.9	-11.5
85.24616		-4.3	85.82838	-7.7	-6.6	86.79443	-9.5	-15.1
85.24927		3.1	85.83909	-8.9	-9.1	86.79846		-9.9
85.25116		-1.9	85.84493	-11.6	-7.1	86.80009	-12.1	-13.6
85.25489		3.8	85.85136	-13.0	-15.7	86.80332		-13.6
85.25654		6.5	85.85756	-14.0	-12.3	86.80620	-14.1	-8.4
85.26008		0.2	85.86341	-15.1	-17.2	86.80772		-16.7
85.26612		-12.0	85.87003	-15.4	-12.9	86.81166	-15.3	-13.8
85.26771		-8.0	85.87608	-13.0	-16.3	86.81235		-15.3
85.27240		-14.7	85.88179	-9.7	-13.6	86.81675		-16.3
85.27820		-12.3	85.88857	-8.7	-11.1	86.81699	-13.8	-16.9
85.28132		-26.6	85.89509	-5.0	-7.2	86.82161		-18.3
85.28284		-24.1	85.90106	-3.3	-4.0	86.82248	-13.6	-12.4
85.28577		-29.8	85.90778	-3.2	-2.2	86.82601		-10.9
85.28730		-16.6	85.91439	-7.2	-6.7	86.82794	-10.3	-14.4
85.29572		-11.8	85.93461	-16.2	-19.6	86.83363	-13.9	-13.3
85.29743		-28.2	85.94084	-16.0	-15.4	86.84101	-9.3	-8.3
85.30567		-7.1	85.94688	-17.4	-18.4	86.84163		-5.8
85.30719		-1.0	85.95389	-17.4	-18.2	86.84641	-6.2	-4.5
85.31104		-5.4	85.95998	-7.4	-14.8	86.84649		-6.0
85.31562		-4.2	85.96624	-8.0	-7.9	86.85089		-7.1
85.31733		5.6	85.97263	-7.3	-0.3	86.85575		0.0
85.32203		10.0	85.97891	-0.5	5.5	86.86501		-8.5
85.32520		-0.3	85.98543		-2.4	86.87011		-8.5
85.32679		11.1	85.99176		-1.0	86.87292	-13.2	-13.4
85.33136		9.5	86.64481		-11.1	86.87856	-13.9	-17.6
85.65391		-21.5	86.65133	-10.7	-11.3	86.87971		-16.9
85.66289	-20.2	-25.2	86.65865	-14.7	-12.4	86.88402	-17.8	-20.0
85.67053	-16.4	-20.0	86.66517	-9.8	-8.4	86.88446		-18.9
85.67669	-12.5	-14.7	86.67207	-10.8	-4.6	86.88937	-18.8	-21.4
85.68324	-3.4	-4.1	86.67865	-8.9	-7.1	86.88967		-16.5
85.68966	-0.7	0.9	86.68440	-8.2	-7.8	86.89418		-17.9
85.69577	-2.4	1.7	86.69105	-11.5	-8.8	86.89534	-18.3	-20.3
85.70210	-5.4	-0.9	86.69851	-10.4	-7.9	86.89858		-17.4
85.70822	-3.8	-7.3	86.70435	-11.3	-9.5	86.90130	-15.3	-11.7
85.71402	-8.9	-9.0	86.71015	-12.3	-13.3	86.90344		-11.7
85.72011	-11.0	-12.8	86.72010	-11.1	-10.1	86.90715	-10.5	-9.1
85.72616	-15.3	-15.1	86.72587	-13.1	-12.0	86.90830		-10.9
85.73207	-14.2	-15.3	86.73160	-13.6	-12.8	86.91339		-9.2
85.73810	-14.1	-16.6	86.73724	-12.9	-12.9	86.91396	-9.1	-6.9

HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag
86.91779		-5.7	87.86698		-15.9	89.02298		0.2
86.91992	-3.6	-6.1	87.87115		-15.5	89.02499		-7.4
86.92265		-5.4	87.87554		-13.8	89.02865		-4.3
86.92540	-0.1	5.0	87.87994		-14.8	89.03414		-4.2
86.92728		0.4	87.88480		-13.2	89.03591		2.8
86.93120	-3.6	-1.0	87.88897		-5.8	89.03921		-0.7
86.93214		-5.8	87.89360		-8.1	89.04116		10.4
86.93674	-3.9	-4.0	87.89777		-5.6	89.04623		1.1
86.93700		-1.2	87.90448		-4.5	89.04830		3.8
86.94210		-7.4	87.91119		-3.3	89.05276		-10.4
86.94297	-8.6	-6.4	87.91748		-6.1	89.05471		-15.6
86.94719		-5.4	87.92392		-9.5	89.05813		-17.2
86.94870	-11.8	-8.6	87.92832		-8.3	89.06021		-25.4
86.95205		-15.5	87.93249		-15.6	89.06344		-27.6
86.95453	-15.5	-16.6	87.93781		-18.6	89.06570		-23.3
86.95645		-20.5	87.94198		-18.4	89.07083		-22.2
86.96041	-18.2	-20.4	87.94661		-16.8	89.07260		-24.0
86.96177		-20.6	87.95101		-15.5	89.07565		-29.6
86.96604	-19.6	-19.7	87.95564		-11.9	89.07742		-28.4
86.96652		-22.3	87.96038		-9.7	89.08059		-27.8
86.97173		-19.1	87.96548		-10.3	89.08230		-19.6
86.97186	-16.2	-25.1	87.97034		-8.2	89.08566		-12.1
86.97636		-16.6	88.24545		-16.7	89.08755		-14.7
86.97802	-16.8	-22.2	88.25497		-10.4	89.09042		-8.5
86.98398	-18.0	-12.9	88.25839		-13.3	89.09219		-10.4
86.98983	-9.1	-1.7	88.26028		-11.8	89.09573		-11.2
86.99605	-8.8	2.1	88.26382		-11.0	89.09787		1.8
87.76559		-13.4	88.26950		-12.0	89.10134		2.6
87.77022		-12.0	88.27694		-11.9	89.10330		5.2
87.77508		-11.7	88.28073		-12.6	89.10653		-2.3
87.77948		-13.5	88.92361		-22.9	89.10836		2.4
87.78411		-14.5	88.92569		-21.8	89.11392		3.8
87.78828		-13.8	88.92870		-19.3	89.11734		0.3
87.79291		-13.0	88.93148		-16.7	89.11911		1.6
87.79703		-10.5	88.93449		-12.5	89.12252		-10.7
87.80147		-1.4	88.93726		-6.1	89.12429		-12.7
87.80564		-6.1	88.95127		-0.8	89.12857		-4.8
87.81004		-9.7	88.95428		-2.4	89.13034		-5.8
87.81443		-3.8	88.95729		1.4	89.13357		-16.4
87.81883		-7.0	88.96041		-1.9	89.13565		-7.2
87.82300		-6.9	88.96342		1.0	89.13888		-11.2
87.82763		-10.4	88.96620		-0.2	89.14065		-17.5
87.83179		-8.7	88.98812		-16.5	89.14498		-16.6
87.83642		-6.8	88.98904		-25.7	89.14736		-22.5
87.84082		-6.5	88.99154		-25.1	89.15078		-27.6
87.84545		-6.3	89.00155		-29.3	89.15280		-22.9
87.84985		-2.5	89.00625		-27.0	89.16427		-11.6
87.85402		-13.6	89.00845		-25.1	89.16738		-16.1
87.85842		-11.9	89.01205		-12.3	89.17147		-15.6
87.86258		-16.7	89.01950		-8.1	89.17410		-5.8

HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag
89.17825		-6.6	89.85225		-8.0	90.50311	-6.9	-6.2
89.18112		-6.8	89.85642		-4.5	90.50652	-6.3	-5.7
89.18716		-3.5	89.86082		-2.8	90.50861	-4.1	-3.6
89.18966		4.1	89.86498		-9.4	90.51094	-3.7	
89.19387		-1.7	89.86961		-12.4	90.51452	-8.6	
89.19668		-0.7	89.87378		-13.0	90.51663	-8.3	-10.3
89.20047		-4.2	89.87841		-7.7	90.51901	-10.2	-9.9
89.20303		-1.2	89.88258		-12.6	90.52262	-13.3	-13.9
89.20712		-13.7	89.88721		-17.8	90.52555	-14.1	-13.0
89.20944		-14.7	89.89160		-20.9	90.52834	-14.0	-12.4
89.21389		-18.8	89.89693		-18.6	90.53173	-12.3	-12.8
89.21633		-17.6	89.90109		-13.7	90.53514	-16.7	-16.2
89.22006		-23.2	89.90549		-13.6	90.53744	-18.6	-15.5
89.22256		-22.6	89.90966		-12.2	90.54093	-19.7	-17.4
89.22683		-19.2	89.91417		-9.9	90.54342	-21.1	-17.5
89.22933		-15.4	89.91846		-8.5	90.55871	-11.2	
89.23355		-8.5	89.92309		-8.7	90.56189	-10.9	
89.23593		-12.6	90.00064		-5.6	90.56452	-7.9	
89.24069		-12.0	90.00253		-4.6	90.57661	-6.0	
89.24313		-11.2	90.00692		-0.6	90.57880	-1.1	
89.24685		-16.9	90.00875		-8.8	90.58232	-0.5	-5.1
89.24905		-6.3	90.01596		-5.1	90.58531	-4.3	-4.7
89.25271		-5.0	90.01779		-15.9	90.58752	-4.6	-5.8
89.25497		-5.6	90.02883		-22.8	90.58971	-1.9	-6.2
89.26876		-3.6	90.43075	-13.0	-12.0	90.59198	-4.4	-5.2
89.27127		-6.2	90.43450	-10.9	-7.1	90.59560	-9.0	-5.5
89.27578		-7.9	90.43795	-13.2	-12.3	90.59817	-10.8	-11.6
89.27804		-15.1	90.44065	-8.1	-6.5	90.60044	-12.6	-13.2
89.28128		-11.6	90.44329	-10.6	-10.0	90.60297	-13.2	-10.2
89.28366		-6.3	90.44570	-7.9	-8.3	90.60511	-10.0	-7.7
89.28726		-13.4	90.44795	-4.5	-6.6	90.60827	-15.3	-11.0
89.28921		-13.1	90.45107	-7.7	-6.9	90.61074	-17.6	-16.6
89.29275		-24.6	90.45434	-9.4	-4.8	90.61432	-18.7	-15.2
89.30130		-11.3	90.45681	-10.7	-10.0	90.61825	-20.9	-17.4
89.30514		-11.6	90.45927	-11.3	-10.1	90.62059	-24.0	-19.2
89.30728		-16.3	90.46170	-11.9	-9.2	90.62694	-17.1	-12.7
89.31124		-18.7	90.46395	-9.1	-10.5	90.62933	-19.3	-13.8
89.31839		-14.4	90.46758	-11.7	-12.4	90.63295	-11.9	-8.4
89.32064		-5.8	90.47058	-11.3	-13.1	90.63675	-10.0	-9.7
89.32821		-6.6	90.47321	-10.8	-9.0	90.63979	-10.2	-10.6
89.33029		-11.8	90.47614	-10.1	-8.7	90.64239	-4.8	-5.3
89.33578		-4.6	90.47894	-11.3	-13.6	90.64705	-3.9	-4.4
89.33773		-1.4	90.48289	-10.0	-9.1	90.64940	-1.8	
89.82123		-16.3	90.48523	-11.6	-9.4	90.65208	1.1	
89.82540		-12.7	90.48781	-11.0	-9.5	90.65552	3.0	
89.83003		-15.8	90.49115	-9.3	-10.0	90.65824	-1.4	-4.4
89.83443		-7.0	90.49329	-9.8	-8.6	90.66156	-5.4	-6.3
89.83906		-8.4	90.49564	-9.8	-5.3	90.66611	-6.1	-7.2
89.84346		-5.2	90.49886	-8.5	-7.8	90.66844	-5.2	-6.3
89.84762		-4.3	90.50099	-4.1	-5.5	90.67095	-9.1	-9.3

HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag
90.67424	-10.0	-8.5	91.17433		-13.3	91.62399		-8.2
90.67682	-14.1	-12.3	91.17794		-10.8	91.64099		-23.1
90.67900	-16.6		91.17989		-15.7	91.64562		-21.5
90.68247	-19.3	-14.1	91.18361		-14.6	91.64956		-25.2
90.68472	-20.6	-18.4	91.18581		-13.2	91.65395		-22.9
90.68723	-22.5	-18.4	91.19063		-14.5	91.65816		-12.8
90.68954		-20.3	91.19252		-9.3	91.66275		-9.8
90.69283		-19.6	91.19594		-9.4	91.66692		-7.2
90.69643	-20.4		91.19795		-11.8	91.67131		0.9
91.01985		-17.8	91.20259		-10.6	91.67618		0.5
91.02730		-14.8	91.20436		-6.2	91.68011		7.2
91.03127		-12.6	91.20845		-7.0	91.68451		7.4
91.03353		-11.1	91.21041		-4.9	91.68879		6.6
91.03768		-10.4	91.21376		-6.7	91.69307		0.5
91.04366		-13.5	91.21572		-4.9	91.69747		-3.7
91.04732		-14.5	91.22072		-8.1	92.30385	-17.3	-15.5
91.05300		-15.0	91.22316		-11.0	92.30719	-20.8	-17.5
91.05696		-10.9	91.22646		-12.7	92.30951	-20.6	-15.0
91.06771		-11.8	91.22896		-10.1	92.31147	-18.2	-16.3
91.06996		-10.9	91.23281		-10.9	92.31359	-9.8	-8.2
91.07332		-13.5	91.23494		-15.1	92.31651	-14.2	-12.3
91.07765		-20.0	91.23989		-13.2	92.31861	-14.3	-13.5
91.08126		-18.9	91.24575		-17.4	92.32052	-15.9	-13.4
91.08406		-17.4	91.24892		-11.7	92.32273	-8.4	-9.9
91.08815		-20.2	91.25118		-10.0	92.32496	-8.0	-8.7
91.09023		-20.3	91.25698		-8.1	92.32711	-8.7	-10.9
91.09371		-13.0	91.26064		-15.1	92.33072	-2.1	-6.0
91.09664		-21.0	91.26259		-9.0	92.33296	-2.9	-6.4
91.09987		-21.4	91.26564		-12.1	92.33518	-4.7	-6.5
91.10201		-22.5	91.26802		-17.1	92.33793	-5.5	-6.5
91.10640		-13.2	91.27437		-10.8	92.34018	-0.4	-1.3
91.10927		-17.8	91.27834		-16.1	92.34354	1.2	-1.3
91.11269		-12.3	91.28005		-12.4	92.34579	0.7	-2.9
91.11470		-15.1	91.29262		-11.4	92.34799	-2.9	-5.5
91.11806		-13.8	91.29494		-13.9	92.35024	-1.9	-3.8
91.11995		-9.5	91.29854		-12.2	92.35254	-2.5	-8.5
91.12526		-7.0	91.30074		-12.8	92.35472	-1.8	-7.7
91.12740		-8.4	91.30544		-11.8	92.35804	-5.5	-4.7
91.13344		-3.1	91.31380		-17.5	92.36045	-5.9	-2.3
91.13973		-5.6	91.31752		-11.8	92.36317	-9.0	-7.0
91.14241		-11.5	91.31972		-15.8	92.36600	-9.5	-9.9
91.14650		-7.0	91.32509		-7.2	92.36811	-15.3	-10.9
91.14907		-11.8	91.32723		-11.7	92.37144	-12.8	-14.2
91.15261		-15.9	91.59475		-5.0	92.37363	-12.3	-12.1
91.15474		-9.9	91.59788		0.1	92.37587	-17.0	-12.3
91.15859		-15.6	91.60083		2.2	92.37846	-18.4	-14.1
91.16078		-11.8	91.60401		4.8	92.38103	-20.2	-14.6
91.16432		-19.0	91.60702		5.5	92.38496	-17.2	-16.7
91.16768		-15.1	91.61003		5.8	92.38740	-22.8	-15.2
91.17177		-14.8	91.61281		7.2	92.38979	-24.0	-19.1

HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag	HJD 244 9600+	Δv mmag	Δy mmag
92.39214	-24.3	-17.0	92.42427	0.8	-3.4	92.45946	-16.7	-15.5
92.39511	-18.7	-15.7	92.42754	0.7	-2.3	92.46164	-20.1	-15.5
92.39895	-16.7	-11.0	92.43148	2.2	-0.3	92.46481	-21.0	-17.9
92.40208	-15.9	-12.1	92.43772	8.6	1.4	92.46753	-20.9	-16.8
92.40473	-14.6	-13.3	92.44074	-4.2	-9.7	92.47043	-21.2	-22.3
92.40897	-10.5	-11.0	92.44431	-6.0	-7.3	92.47377	-22.7	-22.6
92.41199	-7.1	-7.2	92.44754	-7.6	-6.9	92.47751	-18.8	-18.3
92.41509	-5.9	-4.7	92.44990	-8.4	-8.7	92.48003	-20.7	-16.1
92.41900	-4.9	-5.9	92.45209	-10.3	-8.3	92.48363	-16.3	-11.4
92.42209	-1.1	-4.4	92.45549	-14.5	-12.1			