DS1447 The variations in light and color curves and possible short period oscillations of binary AU Serpentis

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Description: In the Table 1 shown are the Heliocentric Julian Days at the start and at the end of the observation runs and the numbers of the observations for each color. Since the observations in 1991 have been published in Li et al. (1992), only those in 1992 and 1995 are listed in Table 2a and 2b for yellow and blue light respectively, where the Heliocentric Julian Days and the magnitude differences(the variable minus the comparison) are given. The normal points producing the light curves in Fig. 2 can found in Table 3 through 5.

Table 1 Journal of observations

Date	Julian Day(2440000+) start	end	Filter	number of observation
1991 April 9	8356.1665	8356.4017	V	112
	8356.1671	8356.4146	B	114
1991 April 10	8357.1485	8357.4119	V	152
	8357.1487	8357.4014	B	150
1992 April 29	8742.1837	8742.4005	V	112
	8742.1842	8742.3779	B	108
1992 April 30	8743.1007	8743.4020	V	219
	8743.1010	8743.4002	B	224
1995 May 22	9860.1073	9860.3845	V	354
	9860.1076	9860.3823	B	354
1995 May 23	9861.0501	9861.3791	V	478
	9861.0497	9861.3789	B	478

Table 2a Observations for yellow light

HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB
8742.1837	0.629	8742.2810	0.842	8742.3707	0.606	8743.1441	0.607	8743.2058	1.236	8743.2770	0.730
8742.1856	0.623	8742.2820	0.854	8742.3718	0.630	8743.1460	0.602	8743.2079	1.289	8743.2774	0.719
8742.1859	0.638	8742.2846	0.774	8742.3720	0.619	8743.1469	0.620	8743.2089	1.306	8743.2784	0.718
8742.1868	0.642	8742.2857	0.773	8742.3733	0.619	8743.1471	0.617	8743.2092	1.296	8743.2806	0.700
8742.1898	0.658	8742.2860	0.749	8742.3758	0.640	8743.1480	0.636	8743.2104	1.334	8743.2816	0.681
8742.1900	0.658	8742.2872	0.740	8742.3770	0.638	8743.1519	0.672	8743.2127	1.365	8743.2818	0.701
8742.1924	0.654	8742.2899	0.744	8742.3777	0.641	8743.1528	0.668	8743.2141	1.372	8743.2826	0.688
8742.1926	0.651	8742.2908	0.730	8742.3785	0.643	8743.1547	0.657	8743.2143	1.370	8743.2853	0.675
8742.1959	0.682	8742.2915	0.719	8742.3976	0.730	8743.1556	0.664	8743.2157	1.375	8743.2864	0.666
8742.1968	0.679	8742.2919	0.715	8742.3985	0.733	8743.1558	0.666	8743.2178	1.405	8743.2867	0.657
8742.1970	0.687	8742.2942	0.727	8742.3988	0.732	8743.1566	0.667	8743.2187	1.405	8743.2872	0.661
8742.1979	0.695	8742.2953	0.712	8742.4005	0.726	8743.1590	0.679	8743.2190	1.394	8743.2906	0.672
8742.2280	0.937	8742.2956	0.692	8743.1007	0.589	8743.1598	0.665	8743.2201	1.422	8743.2914	0.648
8742.2287	0.962	8742.2967	0.693	8743.1018	0.558	8743.1600	0.654	8743.2225	1.396	8743.2917	0.643
8742.2289	0.951	8742.3053	0.621	8743.1020	0.571	8743.1609	0.677	8743.2235	1.383	8743.2923	0.647
8742.2301	0.974	8742.3064	0.630	8743.1030	0.572	8743.1629	0.682	8743.2237	1.385	8743.2949	0.635
8742.2366	1.078	8742.3068	0.633	8743.1052	0.576	8743.1637	0.729	8743.2248	1.374	8743.2958	0.635
8742.2374	1.099	8742.3079	0.633	8743.1060	0.580	8743.1639	0.710	8743.2280	1.313	8743.2961	0.632
8742.2377	1.088	8742.3117	0.615	8743.1062	0.571	8743.1650	0.708	8743.2290	1.313	8743.2972	0.615
8742.2385	1.130	8742.3129	0.606	8743.1075	0.584	8743.1669	0.731	8743.2292	1.287	8743.3051	0.610
8742.2412	1.147	8742.3131	0.607	8743.1091	0.572	8743.1678	0.729	8743.2300	1.289	8743.3064	0.592
8742.2422	1.169	8742.3146	0.595	8743.1099	0.560	8743.1680	0.725	8743.2323	1.241	8743.3067	0.589
8742.2429	1.156	8742.3180	0.614	8743.1101	0.534	8743.1691	0.739	8743.2331	1.215	8743.3075	0.587
8742.2438	1.167	8742.3192	0.595	8743.1110	0.533	8743.1712	0.723	8743.2333	1.222	8743.3101	0.570
8742.2476	1.243	8742.3200	0.589	8743.1129	0.558	8743.1723	0.737	8743.2342	1.199	8743.3155	0.590
8742.2486	1.264	8742.3210	0.577	8743.1137	0.560	8743.1726	0.745	8743.2376	1.127	8743.3166	0.584
8742.2489	1.260	8742.3243	0.568	8743.1139	0.571	8743.1736	0.734	8743.2392	1.085	8743.3221	0.591
8742.2498	1.271	8742.3254	0.557	8743.1148	0.551	8743.1803	0.835	8743.2402	1.089	8743.3229	0.569
8742.2521	1.263	8742.3256	0.561	8743.1170	0.538	8743.1815	0.820	8743.2407	1.067	8743.3231	0.568
8742.2533	1.277	8742.3270	0.553	8743.1178	0.564	8743.1817	0.834	8743.2442	1.010	8743.3276	0.595
8742.2540	1.275	8742.3300	0.570	8743.1180	0.561	8743.1827	0.854	8743.2457	0.990	8743.3286	0.580
8742.2547	1.262	8742.3370	0.575	8743.1189	0.557	8743.1852	0.873	8743.2457	1.003	8743.3288	0.577
8742.2573	1.269	8742.3372	0.574	8743.1213	0.539	8743.1863	0.877	8743.2466	0.973	8743.3299	0.569
8742.2590	1.246	8742.3382	0.575	8743.1222	0.562	8743.1866	0.863	8743.2494	0.963	8743.3326	0.596
8742.2609	1.226	8742.3463	0.566	8743.1224	0.550	8743.1875	0.882	8743.2507	0.944	8743.3335	0.570
8742.2624	1.187	8742.3475	0.560	8743.1232	0.545	8743.1896	0.952	8743.2509	0.939	8743.3337	0.567
8742.2647	1.100	8742.3478	0.567	8743.1253	0.569	8743.1905	0.967	8743.2524	0.920	8743.3348	0.561
8742.2656	1.087	8742.3490	0.566	8743.1262	0.562	8743.1908	0.951	8743.2600	0.812	8743.3386	0.600
8742.2658	1.076	8742.3521	0.560	8743.1264	0.559	8743.1917	0.980	8743.2611	0.797	8743.3395	0.594
8742.2667	1.068	8742.3534	0.563	8743.1277	0.572	8743.1945	1.018	8743.2614	0.801	8743.3398	0.586
8742.2689	1.025	8742.3540	0.558	8743.1292	0.560	8743.1956	1.027	8743.2625	0.785	8743.3407	0.588
8742.2701	1.012	8742.3548	0.572	8743.1301	0.561	8743.1958	1.038	8743.2651	0.772	8743.3496	0.664
8742.2703	1.007	8742.3578	0.566	8743.1304	0.553	8743.1969	1.053	8743.2663	0.776	8743.3513	0.652
8742.2711	1.032	8742.3590	0.580	8743.1313	0.562	8743.1992	1.106	8743.2665	0.772	8743.3511	0.645
8742.2735	0.977	8742.3593	0.595	8743.1380	0.575	8743.2000	1.119	8743.2678	0.754	8743.3513	0.652
8742.2745	0.976	8742.3607	0.585	8743.1389	0.591	8743.2003	1.131	8743.2708	0.737	8743.3550	0.653
8742.2747	0.959	8742.3639	0.599	8743.1391	0.570	8743.2011	1.149	8743.2719	0.744	8743.3562	0.690
8742.2757	0.977	8742.3648	0.584	8743.1421	0.588	8743.2034	1.193	8743.2721	0.746	8743.3564	0.678
8742.2797	0.846	8742.3653	0.579	8743.1430	0.597	8743.2047	1.208	8743.2734	0.739	8743.3576	0.677
8742.2807	0.839	8742.3668	0.596	8743.1432	0.590	8743.2054	1.217	8743.2762	0.738	8743.3604	0.674

Table 2a (continued)

HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB
8743.3616	0.669	9860.1189	0.645	9860.1715	1.183	9860.2025	1.253	9860.2331	0.745	9860.2728	0.609
8743.3618	0.691	9860.1190	0.623	9860.1717	1.206	9860.2030	1.240	9860.2399	0.718	9860.2733	0.525
8743.3628	0.693	9860.1210	0.642	9860.1722	1.189	9860.2032	1.229	9860.2401	0.700	9860.2734	0.549
8743.3652	0.694	9860.1215	0.637	9860.1724	1.171	9860.2055	1.234	9860.2406	0.720	9860.2740	0.536
8743.3662	0.705	9860.1217	0.636	9860.1744	1.285	9860.2061	1.210	9860.2408	0.695	9860.2742	0.553
8743.3665	0.714	9860.1223	0.623	9860.1749	1.280	9860.2062	1.198	9860.2413	0.700	9860.2747	0.512
8743.3676	0.734	9860.1224	0.626	9860.1751	1.294	9860.2067	1.252	9860.2414	0.696	9860.2748	0.539
8743.3707	0.754	9860.1231	0.614	9860.1756	1.296	9860.2069	1.276	9860.2444	0.699	9860.2754	0.538
8743.3716	0.752	9860.1233	0.607	9860.1757	1.219	9860.2074	1.220	9860.2445	0.677	9860.2808	0.588
8743.3721	0.761	9860.1255	0.653	9860.1763	1.240	9860.2075	1.207	9860.2451	0.649	9860.2815	0.526
8743.3735	0.794	9860.1261	0.658	9860.1764	1.251	9860.2097	1.190	9860.2453	0.638	9860.2816	0.515
8743.3763	0.800	9860.1262	0.678	9860.1785	1.335	9860.2102	1.149	9860.2458	0.675	9860.2821	0.533
8743.3766	0.829	9860.1268	0.668	9860.1790	1.310	9860.2104	1.115	9860.2460	0.646	9860.2822	0.532
8743.3769	0.827	9860.1269	0.667	9860.1792	1.290	9860.2109	1.145	9860.2486	0.668	9860.2828	0.524
8743.3778	0.825	9860.1275	0.625	9860.1797	1.395	9860.2111	1.052	9860.2487	0.632	9860.2829	0.500
8743.3859	0.927	9860.1276	0.640	9860.1798	1.393	9860.2117	1.094	9860.2493	0.647	9860.2852	0.551
8743.3863	0.933	9860.1296	0.665	9860.1804	1.382	9860.2118	1.061	9860.2494	0.686	9860.2858	0.498
8743.3866	0.947	9860.1301	0.653	9860.1805	1.393	9860.2138	1.126	9860.2501	0.699	9860.2859	0.481
8743.3875	0.938	9860.1303	0.671	9860.1826	1.520	9860.2143	0.992	9860.2502	0.666	9860.2864	0.549
8743.3902	0.991	9860.1308	0.701	9860.1831	1.471	9860.2145	1.035	9860.2526	0.649	9860.2865	0.517
8743.3912	1.006	9860.1309	0.704	9860.1833	1.458	9860.2150	1.011	9860.2527	0.638	9860.2871	0.525
8743.3914	1.020	9860.1314	0.719	9860.1838	1.468	9860.2151	0.983	9860.2532	0.664	9860.2872	0.511
8743.3924	1.050	9860.1316	0.717	9860.1840	1.501	9860.2157	0.998	9860.2534	0.642	9860.2892	0.589
8743.3950	1.069	9860.1334	0.727	9860.1845	1.473	9860.2158	0.992	9860.2540	0.632	9860.2898	0.490
8743.3955	1.083	9860.1340	0.729	9860.1846	1.488	9860.2184	1.026	9860.2541	0.627	9860.2899	0.493
8743.3957	1.094	9860.1341	0.708	9860.1865	1.548	9860.2189	0.948	9860.2564	0.652	9860.2904	0.500
8743.3970	1.097	9860.1346	0.733	9860.1870	1.498	9860.2191	0.918	9860.2565	0.643	9860.2906	0.519
8743.3995	1.112	9860.1348	0.761	9860.1872	1.518	9860.2196	0.905	9860.2571	0.616	9860.2911	0.519
8743.4006	1.139	9860.1353	0.762	9860.1877	1.447	9860.2198	0.871	9860.2572	0.609	9860.2912	0.534
8743.4009	1.133	9860.1355	0.768	9860.1878	1.439	9860.2203	0.878	9860.2577	0.596	9860.2936	0.533
8743.4020	1.121	9860.1360	0.768	9860.1884	1.460	9860.2204	0.892	9860.2579	0.599	9860.2937	0.502
9860.1073	0.597	9860.1578	0.984	9860.1885	1.462	9860.2224	0.912	9860.2601	0.640	9860.2943	0.541
9860.1081	0.614	9860.1580	0.997	9860.1906	1.520	9860.2230	0.861	9860.2607	0.600	9860.2944	0.542
9860.1082	0.636	9860.1593	0.912	9860.1911	1.469	9860.2231	0.838	9860.2608	0.583	9860.2949	0.554
9860.1088	0.659	9860.1616	0.950	9860.1913	1.442	9860.2237	0.854	9860.2614	0.583	9860.2951	0.516
9860.1089	0.615	9860.1621	0.941	9860.1918	1.456	9860.2238	0.843	9860.2615	0.575	9860.2980	0.540
9860.1095	0.605	9860.1623	0.957	9860.1919	1.414	9860.2244	0.838	9860.2622	0.581	9860.2981	0.515
9860.1097	0.612	9860.1628	1.029	9860.1925	1.448	9860.2245	0.823	9860.2623	0.582	9860.2987	0.529
9860.1129	0.652	9860.1629	1.025	9860.1926	1.416	9860.2267	0.862	9860.2644	0.636	9860.2988	0.533
9860.1135	0.642	9860.1635	1.078	9860.1964	1.430	9860.2273	0.794	9860.2650	0.570	9860.2995	0.558
9860.1136	0.636	9860.1636	1.047	9860.1969	1.366	9860.2275	0.818	9860.2651	0.576	9860.2996	0.543
9860.1142	0.628	9860.1667	1.106	9860.1971	1.352	9860.2281	0.814	9860.2657	0.559	9860.3025	0.574
9860.1143	0.612	9860.1668	1.098	9860.1977	1.347	9860.2283	0.807	9860.2658	0.576	9860.3040	0.581
9860.1148	0.614	9860.1673	1.121	9860.1979	1.323	9860.2288	0.800	9860.2664	0.560	9860.3041	0.575
9860.1149	0.614	9860.1675	1.125	9860.1984	1.330	9860.2289	0.774	9860.2666	0.558	9860.3046	0.593
9860.1168	0.661	9860.1680	1.091	9860.1985	1.315	9860.2315	0.797	9860.2689	0.620	9860.3048	0.586
9860.1174	0.639	9860.1681	1.116	9860.2009	1.309	9860.2317	0.764	9860.2702	0.605	9860.3053	0.590
9860.1175	0.643	9860.1702	1.230	9860.2015	1.245	9860.2322	0.757	9860.2703	0.569	9860.3054	0.580
9860.1183	0.645	9860.1708	1.173	9860.2017	1.232	9860.2324	0.766	9860.2708	0.594	9860.3084	0.563
9860.1184	0.639	9860.1709	1.160	9860.2023	1.209	9860.2329	0.753	9860.2710	0.571	9860.3085	0.574

Table 2a (continued)

HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB
9860.3090	0.576	9860.3556	0.840	9861.0592	0.504	9861.0945	0.652	9861.1275	0.880	9861.1608	1.179
9860.3092	0.617	9860.3558	0.809	9861.0593	0.555	9861.0951	0.650	9861.1293	0.924	9861.1609	1.193
9860.3097	0.562	9860.3582	0.826	9861.0599	0.547	9861.0952	0.630	9861.1299	0.922	9861.1615	1.165
9860.3098	0.588	9860.3589	0.926	9861.0600	0.558	9861.0980	0.663	9861.1300	0.928	9861.1616	1.174
9860.3105	0.588	9860.3591	0.854	9861.0619	0.564	9861.0985	0.655	9861.1305	0.894	9861.1635	1.149
9860.3229	0.666	9860.3600	0.988	9861.0624	0.549	9861.0987	0.664	9861.1307	0.893	9861.1641	1.151
9860.3236	0.626	9860.3606	1.032	9861.0626	0.562	9861.0992	0.649	9861.1312	0.898	9861.1642	1.143
9860.3238	0.606	9860.3608	1.000	9861.0631	0.581	9861.0993	0.612	9861.1314	0.908	9861.1649	1.179
9860.3243	0.643	9860.3628	0.997	9861.0633	0.565	9861.0998	0.617	9861.1331	0.922	9861.1655	1.203
9860.3245	0.624	9860.3634	0.960	9861.0638	0.593	9861.1000	0.631	9861.1336	0.947	9861.1656	1.184
9860.3250	0.631	9860.3636	0.937	9861.0640	0.580	9861.1017	0.639	9861.1338	0.951	9861.1673	1.157
9860.3252	0.636	9860.3642	0.954	9861.0668	0.572	9861.1022	0.639	9861.1343	0.931	9861.1679	1.166
9860.3277	0.630	9860.3651	0.915	9861.0675	0.585	9861.1024	0.629	9861.1344	0.969	9861.1680	1.155
9860.3279	0.618	9860.3653	0.896	9861.0677	0.569	9861.1029	0.644	9861.1350	0.962	9861.1686	1.150
9860.3286	0.666	9860.3673	0.903	9861.0684	0.592	9861.1030	0.647	9861.1351	0.968	9861.1688	1.090
9860.3287	0.642	9860.3680	0.903	9861.0685	0.549	9861.1035	0.658	9861.1370	1.036	9861.1695	1.083
9860.3294	0.657	9860.3689	1.024	9861.0691	0.561	9861.1037	0.637	9861.1376	1.003	9861.1714	1.067
9860.3295	0.659	9860.3691	1.025	9861.0692	0.564	9861.1058	0.681	9861.1378	1.042	9861.1719	1.036
9860.3320	0.638	9860.3697	1.029	9861.0713	0.548	9861.1063	0.657	9861.1384	1.011	9861.1721	1.022
9860.3325	0.643	9860.3698	0.998	9861.0718	0.556	9861.1065	0.679	9861.1385	1.013	9861.1727	1.055
9860.3327	0.630	9860.3722	1.050	9861.0719	0.559	9861.1071	0.702	9861.1390	1.016	9861.1729	1.079
9860.3332	0.643	9860.3728	1.130	9861.0726	0.571	9861.1072	0.691	9861.1392	1.039	9861.1737	1.013
9860.3334	0.663	9860.3730	1.082	9861.0727	0.590	9861.1077	0.721	9861.1417	1.107	9861.1738	1.041
9860.3339	0.665	9860.3737	1.108	9861.0733	0.585	9861.1079	0.686	9861.1428	1.110	9861.1760	0.988
9860.3341	0.688	9860.3738	1.234	9861.0735	0.598	9861.1101	0.706	9861.1429	1.117	9861.1767	0.975
9860.3359	0.673	9860.3747	1.163	9861.0813	0.613	9861.1106	0.706	9861.1435	1.135	9861.1768	0.992
9860.3365	0.680	9860.3748	1.184	9861.0820	0.608	9861.1108	0.742	9861.1442	1.187	9861.1774	0.968
9860.3366	0.673	9860.3768	1.141	9861.0821	0.628	9861.1114	0.679	9861.1443	1.198	9861.1775	0.974
9860.3378	0.739	9860.3775	1.257	9861.0827	0.604	9861.1115	0.696	9861.1482	1.269	9861.1781	0.993
9860.3379	0.737	9860.3777	1.232	9861.0829	0.568	9861.1121	0.710	9861.1484	1.262	9861.1782	0.981
9860.3385	0.739	9860.3820	1.234	9861.0834	0.596	9861.1122	0.682	9861.1489	1.195	9861.1800	0.945
9860.3386	0.747	9860.3826	1.246	9861.0835	0.567	9861.1185	0.765	9861.1491	1.179	9861.1806	0.960
9860.3449	0.754	9860.3827	1.242	9861.0854	0.607	9861.1186	0.772	9861.1496	1.181	9861.1813	0.867
9860.3455	0.766	9860.3833	1.208	9861.0859	0.595	9861.1192	0.790	9861.1497	1.206	9861.1814	0.863
9860.3456	0.756	9860.3845	1.254	9861.0860	0.596	9861.1193	0.772	9861.1521	1.225	9861.1820	0.852
9860.3461	0.768	9861.0501	0.601	9861.0865	0.601	9861.1198	0.766	9861.1523	1.206	9861.1822	0.831
9860.3463	0.748	9861.0502	0.588	9861.0867	0.605	9861.1200	0.759	9861.1528	1.222	9861.1843	0.871
9860.3469	0.714	9861.0508	0.588	9861.0872	0.597	9861.1214	0.816	9861.1530	1.185	9861.1849	0.815
9860.3470	0.766	9861.0510	0.539	9861.0873	0.587	9861.1221	0.804	9861.1535	1.221	9861.1851	0.808
9860.3488	0.775	9861.0516	0.539	9861.0891	0.608	9861.1223	0.790	9861.1537	1.217	9861.1857	0.816
9860.3495	0.756	9861.0517	0.540	9861.0896	0.588	9861.1228	0.796	9861.1554	1.225	9861.1858	0.822
9860.3496	0.748	9861.0535	0.548	9861.0898	0.582	9861.1229	0.778	9861.1560	1.178	9861.1864	0.814
9860.3505	0.810	9861.0541	0.536	9861.0903	0.631	9861.1235	0.800	9861.1561	1.185	9861.1865	0.837
9860.3511	0.834	9861.0542	0.531	9861.0904	0.562	9861.1236	0.813	9861.1566	1.191	9861.1888	0.776
9860.3512	0.820	9861.0548	0.532	9861.0910	0.577	9861.1254	0.831	9861.1567	1.200	9861.1894	0.794
9860.3535	0.818	9861.0549	0.499	9861.0911	0.581	9861.1259	0.819	9861.1573	1.212	9861.1895	0.768
9860.3541	0.883	9861.0555	0.507	9861.0930	0.596	9861.1260	0.824	9861.1574	1.180	9861.1901	0.767
9860.3542	0.810	9861.0557	0.523	9861.0937	0.612	9861.1267	0.838	9861.1594	1.202	9861.1902	0.776
9860.3549	0.839	9861.0583	0.521	9861.0939	0.621	9861.1268	0.877	9861.1601	1.198	9861.1909	0.776
9860.3550	0.822	9861.0584	0.531	9861.0944	0.647	9861.1274	0.891	9861.1603	1.184	9861.1910	0.764

Table 2a (continued)

HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB	HJD 2440000+	ΔB
9861.1930	0.780	9861.2208	0.617	9861.2521	0.631	9861.2814	0.662	9861.3150	0.881	9861.3483	1.564
9861.1935	0.739	9861.2213	0.597	9861.2527	0.592	9861.2815	0.663	9861.3156	0.893	9861.3489	1.562
9861.1936	0.742	9861.2215	0.606	9861.2529	0.587	9861.2837	0.654	9861.3157	0.891	9861.3490	1.559
9861.1948	0.713	9861.2234	0.601	9861.2536	0.598	9861.2844	0.657	9861.3164	0.948	9861.3520	1.518
9861.1950	0.696	9861.2240	0.591	9861.2537	0.575	9861.2845	0.651	9861.3166	0.958	9861.3526	1.494
9861.1956	0.729	9861.2241	0.598	9861.2543	0.597	9861.2852	0.680	9861.3171	0.962	9861.3527	1.507
9861.1957	0.747	9861.2247	0.623	9861.2545	0.591	9861.2853	0.693	9861.3173	0.950	9861.3535	1.509
9861.1982	0.704	9861.2249	0.632	9861.2562	0.572	9861.2859	0.685	9861.3192	0.999	9861.3542	1.477
9861.1984	0.690	9861.2255	0.625	9861.2578	0.630	9861.2861	0.683	9861.3198	0.990	9861.3544	1.471
9861.1990	0.682	9861.2256	0.612	9861.2584	0.631	9861.2929	0.690	9861.3200	1.000	9861.3570	1.397
9861.1991	0.695	9861.2282	0.620	9861.2586	0.643	9861.2936	0.679	9861.3206	0.983	9861.3576	1.388
9861.1997	0.698	9861.2283	0.594	9861.2608	0.622	9861.2937	0.684	9861.3207	0.994	9861.3577	1.350
9861.1998	0.678	9861.2291	0.571	9861.2614	0.623	9861.2944	0.713	9861.3213	1.052	9861.3583	1.358
9861.2020	0.678	9861.2297	0.587	9861.2615	0.607	9861.2945	0.722	9861.3215	1.044	9861.3585	1.406
9861.2025	0.667	9861.2299	0.581	9861.2621	0.631	9861.2951	0.718	9861.3240	1.054	9861.3591	1.387
9861.2027	0.661	9861.2316	0.576	9861.2623	0.612	9861.2953	0.679	9861.3246	1.068	9861.3592	1.377
9861.2032	0.660	9861.2322	0.574	9861.2633	0.620	9861.2974	0.720	9861.3248	1.074	9861.3614	1.277
9861.2033	0.665	9861.2323	0.577	9861.2634	0.609	9861.2982	0.755	9861.3254	1.092	9861.3624	1.273
9861.2039	0.646	9861.2328	0.571	9861.2660	0.623	9861.2983	0.747	9861.3256	1.079	9861.3625	1.253
9861.2040	0.678	9861.2330	0.573	9861.2666	0.619	9861.2990	0.777	9861.3261	1.090	9861.3632	1.340
9861.2060	0.674	9861.2335	0.562	9861.2667	0.611	9861.2992	0.743	9861.3263	1.076	9861.3633	1.287
9861.2067	0.637	9861.2337	0.582	9861.2674	0.620	9861.2998	0.771	9861.3281	1.127	9861.3640	1.293
9861.2072	0.651	9861.2355	0.576	9861.2675	0.608	9861.3000	0.764	9861.3292	1.172	9861.3641	1.294
9861.2074	0.671	9861.2360	0.582	9861.2681	0.610	9861.3019	0.774	9861.3294	1.178	9861.3666	1.189
9861.2080	0.655	9861.2362	0.573	9861.2683	0.609	9861.3025	0.787	9861.3300	1.199	9861.3673	1.188
9861.2081	0.660	9861.2368	0.561	9861.2704	0.633	9861.3027	0.786	9861.3309	1.229	9861.3674	1.118
9861.2100	0.651	9861.2370	0.590	9861.2710	0.628	9861.3033	0.805	9861.3337	1.269	9861.3680	1.117
9861.2107	0.636	9861.2376	0.587	9861.2711	0.628	9861.3034	0.824	9861.3343	1.256	9861.3682	1.210
9861.2108	0.624	9861.2377	0.574	9861.2717	0.601	9861.3040	0.825	9861.3344	1.249	9861.3690	1.141
9861.2115	0.639	9861.2382	0.573	9861.2719	0.619	9861.3041	0.805	9861.3350	1.241	9861.3691	1.164
9861.2117	0.640	9861.2439	0.579	9861.2725	0.607	9861.3062	0.826	9861.3352	1.267	9861.3715	1.071
9861.2122	0.631	9861.2445	0.555	9861.2727	0.628	9861.3068	0.830	9861.3358	1.288	9861.3721	1.054
9861.2124	0.619	9861.2447	0.562	9861.2746	0.623	9861.3070	0.843	9861.3359	1.275	9861.3722	1.030
9861.2151	0.611	9861.2453	0.565	9861.2753	0.619	9861.3076	0.800	9861.3377	1.286	9861.3730	1.136
9861.2157	0.630	9861.2454	0.555	9861.2755	0.598	9861.3078	0.806	9861.3389	1.324	9861.3737	1.096
9861.2159	0.621	9861.2460	0.582	9861.2761	0.627	9861.3084	0.836	9861.3391	1.343	9861.3762	1.033
9861.2165	0.630	9861.2462	0.582	9861.2762	0.625	9861.3085	0.805	9861.3397	1.317	9861.3768	1.019
9861.2166	0.635	9861.2478	0.577	9861.2769	0.624	9861.3107	0.825	9861.3399	1.431	9861.3770	1.031
9861.2172	0.625	9861.2484	0.564	9861.2770	0.618	9861.3113	0.843	9861.3405	1.411	9861.3776	1.056
9861.2173	0.621	9861.2486	0.543	9861.2792	0.608	9861.3115	0.838	9861.3406	1.440	9861.3777	1.020
9861.2193	0.645	9861.2492	0.581	9861.2798	0.603	9861.3121	0.839	9861.3433	1.423	9861.3784	0.977
9861.2199	0.603	9861.2493	0.594	9861.2800	0.615	9861.3122	0.855	9861.3434	1.408	9861.3785	0.968
9861.2200	0.613	9861.2499	0.597	9861.2806	0.631	9861.3128	0.867	9861.3448	1.554	9861.3791	0.967
9861.2206	0.596	9861.2501	0.599	9861.2807	0.647	9861.3129	0.861	9861.3476	1.541		

Table 2b Observations for blue light

HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV
8742.1842	0.359	8742.2816	0.571	8742.3711	0.338	8743.1474	0.368	8743.2084	1.060	8743.2779	0.455
8742.1853	0.361	8742.2818	0.584	8742.3714	0.339	8743.1475	0.365	8743.2086	1.062	8743.2781	0.435
8742.1864	0.359	8742.2850	0.536	8742.3725	0.339	8743.1511	0.397	8743.2097	1.086	8743.2809	0.440
8742.1867	0.377	8742.2852	0.512	8742.3728	0.330	8743.1514	0.398	8743.2099	1.086	8743.2811	0.430
8742.1901	0.372	8742.2863	0.499	8742.3763	0.375	8743.1524	0.404	8743.2136	1.148	8743.2823	0.431
8742.1903	0.372	8742.2866	0.475	8742.3765	0.363	8743.1527	0.386	8743.2138	1.148	8743.2825	0.434
8742.1916	0.386	8742.2902	0.462	8742.3777	0.372	8743.1550	0.387	8743.2147	1.156	8743.2856	0.406
8742.1919	0.387	8742.2905	0.482	8742.3779	0.385	8743.1553	0.408	8743.2150	1.163	8743.2859	0.409
8742.1962	0.422	8742.2913	0.474	8743.1010	0.272	8743.1561	0.394	8743.2181	1.204	8743.2867	0.399
8742.1965	0.414	8742.2916	0.447	8743.1014	0.288	8743.1563	0.420	8743.2183	1.200	8743.2874	0.395
8742.1976	0.435	8742.2947	0.444	8743.1023	0.289	8743.1593	0.397	8743.2194	1.204	8743.2908	0.384
8742.1978	0.423	8742.2949	0.450	8743.1025	0.287	8743.1595	0.418	8743.2196	1.225	8743.2916	0.373
8742.2283	0.694	8742.2960	0.420	8743.1055	0.283	8743.1604	0.414	8743.2228	1.171	8743.2918	0.379
8742.2295	0.696	8742.2962	0.428	8743.1057	0.295	8743.1606	0.416	8743.2231	1.162	8743.2921	0.379
8742.2297	0.691	8742.3058	0.350	8743.1065	0.287	8743.1632	0.457	8743.2241	1.165	8743.2955	0.349
8742.2297	0.702	8742.3061	0.339	8743.1068	0.297	8743.1634	0.467	8743.2243	1.156	8743.2957	0.365
8742.2371	0.830	8742.3071	0.338	8743.1093	0.300	8743.1644	0.472	8743.2284	1.101	8743.2965	0.347
8742.2373	0.819	8742.3073	0.345	8743.1096	0.291	8743.1646	0.463	8743.2287	1.089	8743.2968	0.347
8742.2380	0.859	8742.3123	0.348	8743.1105	0.279	8743.1672	0.462	8743.2295	1.087	8743.3056	0.326
8742.2382	0.846	8742.3136	0.320	8743.1107	0.292	8743.1679	0.466	8743.2297	1.071	8743.3060	0.330
8742.2416	0.921	8742.3138	0.325	8743.1132	0.272	8743.1686	0.465	8743.2326	1.016	8743.3070	0.336
8742.2419	0.910	8742.3140	0.306	8743.1134	0.272	8743.1688	0.472	8743.2328	1.012	8743.3072	0.314
8742.2430	0.906	8742.3186	0.310	8743.1143	0.286	8743.1716	0.488	8743.2336	0.987	8743.3106	0.328
8742.2434	0.885	8742.3188	0.308	8743.1145	0.287	8743.1719	0.481	8743.2338	0.990	8743.3108	0.334
8742.2481	1.015	8742.3203	0.296	8743.1173	0.301	8743.1729	0.488	8743.2387	0.880	8743.3120	0.324
8742.2483	1.024	8742.3206	0.304	8743.1175	0.294	8743.1732	0.493	8743.2388	0.883	8743.3122	0.333
8742.2492	1.029	8742.3248	0.279	8743.1183	0.310	8743.1807	0.603	8743.2402	0.849	8743.3159	0.309
8742.2495	1.047	8742.3250	0.274	8743.1186	0.292	8743.1810	0.592	8743.2404	0.849	8743.3162	0.321
8742.2525	1.015	8742.3262	0.276	8743.1218	0.294	8743.1821	0.604	8743.2446	0.779	8743.3223	0.307
8742.2528	1.013	8742.3270	0.267	8743.1221	0.267	8743.1824	0.612	8743.2449	0.781	8743.3225	0.322
8742.2541	1.015	8742.3305	0.290	8743.1227	0.272	8743.1858	0.645	8743.2460	0.744	8743.3235	0.291
8742.2543	1.011	8742.3308	0.310	8743.1229	0.285	8743.1860	0.621	8743.2462	0.732	8743.3238	0.293
8742.2578	1.028	8742.3376	0.320	8743.1256	0.288	8743.1870	0.633	8743.2498	0.694	8743.3280	0.308
8742.2581	1.026	8742.3378	0.314	8743.1259	0.301	8743.1872	0.639	8743.2500	0.688	8743.3282	0.323
8742.2616	0.973	8742.3467	0.301	8743.1267	0.292	8743.1900	0.704	8743.2502	0.688	8743.3296	0.316
8742.2621	0.980	8742.3472	0.295	8743.1269	0.289	8743.1902	0.721	8743.2504	0.686	8743.3298	0.311
8742.2650	0.866	8742.3483	0.294	8743.1296	0.279	8743.1911	0.719	8743.2605	0.552	8743.3329	0.328
8742.2653	0.860	8742.3486	0.294	8743.1298	0.284	8743.1913	0.715	8743.2607	0.555	8743.3332	0.324
8742.2661	0.813	8742.3525	0.291	8743.1308	0.275	8743.1950	0.773	8743.2621	0.528	8743.3340	0.324
8742.2664	0.818	8742.3534	0.280	8743.1310	0.283	8743.1957	0.780	8743.2623	0.535	8743.3343	0.303
8742.2693	0.768	8742.3541	0.287	8743.1383	0.318	8743.1962	0.813	8743.2656	0.534	8743.3388	0.333
8742.2696	0.750	8742.3543	0.302	8743.1386	0.322	8743.1966	0.809	8743.2659	0.542	8743.3391	0.328
8742.2706	0.732	8742.3582	0.317	8743.1394	0.310	8743.1995	0.859	8743.2670	0.501	8743.3392	0.327
8742.2708	0.747	8742.3585	0.320	8743.1396	0.313	8743.1998	0.880	8743.2672	0.512	8743.3394	0.327
8742.2738	0.735	8742.3601	0.327	8743.1424	0.316	8743.2006	0.911	8743.2712	0.482	8743.3499	0.391
8742.2740	0.738	8742.3604	0.326	8743.1427	0.333	8743.2009	0.903	8743.2715	0.490	8743.3502	0.383
8742.2750	0.727	8742.3643	0.309	8743.1435	0.332	8743.2040	0.983	8743.2726	0.476	8743.3514	0.370
8742.2753	0.718	8742.3645	0.312	8743.1438	0.333	8743.2044	0.963	8743.2729	0.476	8743.3517	0.373
8742.2801	0.596	8742.3661	0.307	8743.1464	0.356	8743.2053	0.983	8743.2762	0.460	8743.3555	0.396
8742.2804	0.574	8742.3665	0.301	8743.1466	0.361	8743.2055	0.985	8743.2765	0.456	8743.3557	0.405

Table 2b (continued)

HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV
8743.3568	0.411	9860.1186	0.381	9860.1677	0.966	9860.2011	1.184	9860.2326	0.585	9860.2705	0.388
8743.3575	0.402	9860.1187	0.380	9860.1678	0.943	9860.2013	1.164	9860.2327	0.577	9860.2707	0.359
8743.3609	0.405	9860.1192	0.410	9860.1683	0.981	9860.2019	1.130	9860.2333	0.582	9860.2712	0.375
8743.3612	0.403	9860.1212	0.396	9860.1704	1.052	9860.2021	1.116	9860.2396	0.510	9860.2730	0.331
8743.3622	0.431	9860.1213	0.375	9860.1706	1.058	9860.2027	1.146	9860.2397	0.500	9860.2731	0.308
8743.3624	0.420	9860.1218	0.411	9860.1712	1.060	9860.2028	1.114	9860.2403	0.521	9860.2736	0.331
8743.3656	0.448	9860.1220	0.395	9860.1713	1.064	9860.2034	1.130	9860.2404	0.493	9860.2738	0.332
8743.3658	0.453	9860.1228	0.418	9860.1720	1.115	9860.2057	1.061	9860.2448	0.431	9860.2745	0.368
8743.3669	0.463	9860.1229	0.394	9860.1726	1.143	9860.2059	1.074	9860.2449	0.449	9860.2751	0.386
8743.3671	0.453	9860.1235	0.449	9860.1746	1.170	9860.2064	1.061	9860.2455	0.454	9860.2752	0.386
8743.3711	0.491	9860.1257	0.448	9860.1747	1.213	9860.2077	1.118	9860.2456	0.456	9860.2811	0.328
8743.3725	0.504	9860.1259	0.454	9860.1753	1.224	9860.2099	1.012	9860.2462	0.461	9860.2813	0.328
8743.3728	0.515	9860.1265	0.468	9860.1754	1.183	9860.2100	0.977	9860.2482	0.478	9860.2818	0.336
8743.3730	0.516	9860.1266	0.469	9860.1759	1.142	9860.2106	1.000	9860.2483	0.457	9860.2819	0.313
8743.3761	0.569	9860.1271	0.492	9860.1761	1.137	9860.2107	0.980	9860.2489	0.417	9860.2825	0.358
8743.3764	0.555	9860.1273	0.457	9860.1766	1.184	9860.2113	0.978	9860.2491	0.432	9860.2826	0.307
8743.3774	0.557	9860.1278	0.455	9860.1787	1.206	9860.2114	0.945	9860.2497	0.488	9860.2832	0.333
8743.3777	0.574	9860.1298	0.490	9860.1788	1.212	9860.2120	0.906	9860.2498	0.482	9860.2854	0.295
8743.3858	0.679	9860.1299	0.442	9860.1794	1.251	9860.2140	0.900	9860.2505	0.493	9860.2856	0.262
8743.3860	0.681	9860.1305	0.482	9860.1795	1.325	9860.2141	0.873	9860.2522	0.467	9860.2861	0.291
8743.3868	0.687	9860.1306	0.466	9860.1800	1.317	9860.2147	0.892	9860.2523	0.468	9860.2862	0.288
8743.3871	0.687	9860.1311	0.502	9860.1802	1.320	9860.2148	0.826	9860.2529	0.426	9860.2867	0.316
8743.3906	0.762	9860.1312	0.481	9860.1807	1.361	9860.2153	0.818	9860.2530	0.409	9860.2869	0.271
8743.3908	0.756	9860.1318	0.495	9860.1828	1.438	9860.2155	0.819	9860.2536	0.426	9860.2874	0.319
8743.3918	0.793	9860.1336	0.502	9860.1829	1.413	9860.2160	0.831	9860.2537	0.404	9860.2893	0.306
8743.3921	0.795	9860.1338	0.486	9860.1835	1.392	9860.2186	0.767	9860.2543	0.426	9860.2895	0.268
8743.3949	0.808	9860.1343	0.494	9860.1836	1.457	9860.2187	0.791	9860.2560	0.421	9860.2901	0.255
8743.3952	0.820	9860.1344	0.477	9860.1843	1.486	9860.2193	0.763	9860.2561	0.405	9860.2902	0.238
8743.3962	0.855	9860.1350	0.511	9860.1849	1.475	9860.2194	0.754	9860.2567	0.413	9860.2907	0.310
8743.3965	0.822	9860.1351	0.508	9860.1867	1.505	9860.2200	0.743	9860.2568	0.392	9860.2909	0.305
8743.4000	0.876	9860.1357	0.526	9860.1868	1.527	9860.2201	0.712	9860.2574	0.407	9860.2914	0.288
8743.4002	0.853	9860.1358	0.526	9860.1874	1.528	9860.2206	0.708	9860.2575	0.403	9860.2933	0.312
9860.1076	0.344	9860.1575	0.748	9860.1875	1.393	9860.2226	0.689	9860.2581	0.405	9860.2934	0.269
9860.1077	0.339	9860.1576	0.708	9860.1880	1.412	9860.2228	0.685	9860.2603	0.400	9860.2939	0.295
9860.1085	0.370	9860.1582	0.748	9860.1882	1.413	9860.2233	0.691	9860.2605	0.355	9860.2941	0.299
9860.1086	0.355	9860.1583	0.729	9860.1887	1.418	9860.2235	0.648	9860.2611	0.405	9860.2946	0.341
9860.1092	0.351	9860.1588	0.761	9860.1908	1.416	9860.2240	0.663	9860.2612	0.369	9860.2947	0.319
9860.1093	0.353	9860.1590	0.741	9860.1909	1.393	9860.2242	0.653	9860.2618	0.395	9860.2954	0.323
9860.1099	0.359	9860.1595	0.742	9860.1915	1.424	9860.2247	0.642	9860.2620	0.364	9860.2977	0.309
9860.1131	0.397	9860.1618	0.791	9860.1916	1.416	9860.2269	0.655	9860.2625	0.376	9860.2978	0.318
9860.1133	0.367	9860.1620	0.734	9860.1921	1.301	9860.2271	0.608	9860.2645	0.361	9860.2984	0.329
9860.1138	0.408	9860.1625	0.821	9860.1923	1.276	9860.2277	0.601	9860.2647	0.360	9860.2985	0.318
9860.1140	0.379	9860.1626	0.779	9860.1928	1.276	9860.2278	0.602	9860.2653	0.376	9860.2990	0.279
9860.1145	0.404	9860.1631	0.833	9860.1966	1.219	9860.2285	0.625	9860.2655	0.351	9860.2992	0.263
9860.1146	0.378	9860.1633	0.825	9860.1967	1.197	9860.2286	0.614	9860.2660	0.364	9860.2999	0.288
9860.1151	0.403	9860.1638	0.818	9860.1974	1.172	9860.2291	0.617	9860.2662	0.363	9860.3035	0.287
9860.1171	0.427	9860.1663	0.938	9860.1975	1.262	9860.2312	0.607	9860.2668	0.348	9860.3038	0.281
9860.1172	0.410	9860.1664	0.906	9860.1981	1.233	9860.2313	0.587	9860.2691	0.340	9860.3043	0.295
9860.1179	0.396	9860.1670	0.878	9860.1982	1.259	9860.2319	0.592	9860.2692	0.406	9860.3045	0.315
9860.1181	0.386	9860.1671	0.878	9860.1987	1.233	9860.2320	0.560	9860.2699	0.390	9860.3050	0.312

Table 2b (continued)

HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV
9860.3051	0.333	9860.3537	0.653	9861.0579	0.301	9861.0934	0.305	9861.1263	0.568	9861.1597	0.989
9860.3056	0.319	9860.3538	0.610	9861.0580	0.308	9861.0940	0.326	9861.1270	0.643	9861.1599	0.982
9860.3081	0.291	9860.3545	0.643	9861.0587	0.249	9861.0942	0.347	9861.1272	0.627	9861.1605	0.983
9860.3082	0.291	9860.3546	0.586	9861.0589	0.278	9861.0949	0.355	9861.1277	0.632	9861.1606	0.963
9860.3087	0.300	9860.3553	0.610	9861.0595	0.255	9861.0954	0.370	9861.1296	0.630	9861.1611	0.962
9860.3089	0.280	9860.3554	0.582	9861.0597	0.258	9861.0982	0.343	9861.1297	0.645	9861.1613	0.996
9860.3094	0.299	9860.3560	0.598	9861.0602	0.266	9861.0984	0.327	9861.1302	0.671	9861.1618	0.985
9860.3095	0.277	9860.3584	0.640	9861.0621	0.273	9861.0989	0.365	9861.1303	0.631	9861.1639	0.936
9860.3100	0.283	9860.3595	0.706	9861.0622	0.285	9861.0990	0.334	9861.1309	0.638	9861.1644	0.949
9860.3101	0.283	9860.3603	0.784	9861.0628	0.265	9861.0995	0.323	9861.1310	0.647	9861.1646	1.007
9860.3231	0.377	9860.3604	0.720	9861.0629	0.272	9861.0996	0.327	9861.1316	0.700	9861.1653	0.989
9860.3234	0.362	9860.3611	0.811	9861.0635	0.300	9861.1001	0.345	9861.1333	0.701	9861.1658	0.980
9860.3240	0.379	9860.3630	0.782	9861.0636	0.246	9861.1019	0.330	9861.1334	0.692	9861.1675	0.953
9860.3241	0.362	9860.3632	0.745	9861.0642	0.272	9861.1020	0.339	9861.1339	0.695	9861.1677	0.936
9860.3248	0.418	9860.3638	0.777	9861.0671	0.267	9861.1026	0.359	9861.1341	0.704	9861.1682	0.944
9860.3254	0.416	9860.3640	0.836	9861.0673	0.281	9861.1027	0.371	9861.1346	0.754	9861.1684	0.936
9860.3274	0.424	9860.3647	0.706	9861.0680	0.258	9861.1032	0.398	9861.1348	0.743	9861.1690	0.852
9860.3275	0.375	9860.3649	0.737	9861.0682	0.295	9861.1033	0.393	9861.1353	0.739	9861.1696	0.909
9860.3282	0.365	9860.3655	0.719	9861.0688	0.279	9861.1039	0.401	9861.1373	0.789	9861.1716	0.784
9860.3284	0.361	9860.3676	0.743	9861.0689	0.270	9861.1060	0.409	9861.1374	0.791	9861.1723	0.802
9860.3290	0.410	9860.3683	0.891	9861.0694	0.287	9861.1061	0.392	9861.1380	0.808	9861.1724	0.829
9860.3291	0.365	9860.3685	0.837	9861.0715	0.265	9861.1066	0.439	9861.1381	0.845	9861.1733	0.832
9860.3298	0.393	9860.3693	0.830	9861.0716	0.260	9861.1068	0.414	9861.1387	0.872	9861.1734	0.802
9860.3322	0.373	9860.3694	0.881	9861.0722	0.277	9861.1074	0.430	9861.1388	0.867	9861.1740	0.815
9860.3323	0.348	9860.3700	0.868	9861.0724	0.323	9861.1075	0.425	9861.1394	0.884	9861.1763	0.805
9860.3329	0.376	9860.3724	0.875	9861.0730	0.307	9861.1080	0.437	9861.1424	0.963	9861.1764	0.755
9860.3336	0.419	9860.3725	0.879	9861.0731	0.300	9861.1103	0.454	9861.1425	0.971	9861.1771	0.767
9860.3337	0.365	9860.3732	0.921	9861.0737	0.309	9861.1104	0.442	9861.1431	1.015	9861.1772	0.748
9860.3343	0.366	9860.3733	0.847	9861.0815	0.338	9861.1110	0.454	9861.1432	0.990	9861.1777	0.753
9860.3362	0.408	9860.3741	0.997	9861.0816	0.325	9861.1111	0.417	9861.1438	0.949	9861.1779	0.743
9860.3363	0.363	9860.3742	0.979	9861.0824	0.336	9861.1117	0.426	9861.1440	0.956	9861.1784	0.732
9860.3373	0.356	9860.3751	0.997	9861.0825	0.319	9861.1119	0.415	9861.1445	0.981	9861.1802	0.715
9860.3376	0.449	9860.3772	0.963	9861.0831	0.304	9861.1124	0.430	9861.1475	1.038	9861.1804	0.707
9860.3382	0.477	9860.3773	0.928	9861.0832	0.309	9861.1181	0.513	9861.1477	1.021	9861.1809	0.689
9860.3383	0.449	9860.3779	1.027	9861.0837	0.335	9861.1182	0.476	9861.1487	0.963	9861.1810	0.601
9860.3388	0.463	9860.3823	1.050	9861.0856	0.324	9861.1188	0.508	9861.1492	0.967	9861.1817	0.609
9860.3451	0.485	9861.0497	0.285	9861.0857	0.312	9861.1189	0.516	9861.1494	0.981	9861.1818	0.598
9860.3453	0.467	9861.0499	0.326	9861.0862	0.341	9861.1195	0.535	9861.1499	0.997	9861.1823	0.613
9860.3458	0.508	9861.0504	0.306	9861.0864	0.308	9861.1196	0.560	9861.1517	1.031	9861.1845	0.594
9860.3459	0.506	9861.0506	0.324	9861.0869	0.323	9861.1202	0.556	9861.1519	1.029	9861.1847	0.558
9860.3465	0.560	9861.0513	0.272	9861.0870	0.298	9861.1217	0.575	9861.1525	1.038	9861.1853	0.574
9860.3466	0.498	9861.0514	0.286	9861.0875	0.296	9861.1218	0.574	9861.1526	1.033	9861.1854	0.584
9860.3473	0.546	9861.0520	0.285	9861.0893	0.293	9861.1225	0.593	9861.1533	0.967	9861.1860	0.574
9860.3491	0.584	9861.0537	0.285	9861.0894	0.297	9861.1226	0.552	9861.1539	0.976	9861.1862	0.578
9860.3492	0.503	9861.0539	0.279	9861.0899	0.327	9861.1232	0.544	9861.1556	0.998	9861.1869	0.542
9860.3498	0.521	9861.0545	0.296	9861.0901	0.307	9861.1233	0.552	9861.1563	0.961	9861.1890	0.551
9860.3500	0.555	9861.0546	0.272	9861.0906	0.312	9861.1239	0.566	9861.1565	0.982	9861.1892	0.565
9860.3507	0.611	9861.0551	0.302	9861.0907	0.298	9861.1255	0.586	9861.1570	0.983	9861.1897	0.551
9860.3508	0.538	9861.0553	0.266	9861.0913	0.295	9861.1257	0.576	9861.1571	0.991	9861.1898	0.514
9860.3515	0.562	9861.0559	0.293	9861.0933	0.311	9861.1262	0.592	9861.1576	0.972	9861.1905	0.491

Table 2b (continued)

HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV	HJD 2440000+	ΔV
9861.1906	0.491	9861.2197	0.348	9861.2488	0.293	9861.2766	0.341	9861.3131	0.649	9861.3444	1.438
9861.1912	0.514	9861.2203	0.324	9861.2490	0.318	9861.2772	0.357	9861.3152	0.632	9861.3446	1.384
9861.1932	0.477	9861.2204	0.361	9861.2496	0.330	9861.2809	0.413	9861.3154	0.644	9861.3452	1.393
9861.1933	0.489	9861.2210	0.370	9861.2497	0.315	9861.2811	0.393	9861.3160	0.700	9861.3472	1.423
9861.1939	0.496	9861.2211	0.340	9861.2503	0.331	9861.2817	0.395	9861.3162	0.721	9861.3473	1.405
9861.1940	0.478	9861.2217	0.328	9861.2523	0.347	9861.2840	0.397	9861.3168	0.713	9861.3485	1.440
9861.1952	0.480	9861.2236	0.337	9861.2525	0.339	9861.2841	0.395	9861.3169	0.743	9861.3493	1.511
9861.1954	0.478	9861.2237	0.328	9861.2532	0.337	9861.2848	0.402	9861.3175	0.726	9861.3495	1.499
9861.1959	0.469	9861.2243	0.337	9861.2533	0.331	9861.2849	0.411	9861.3195	0.749	9861.3501	1.505
9861.1979	0.453	9861.2245	0.362	9861.2540	0.305	9861.2855	0.438	9861.3196	0.721	9861.3522	1.381
9861.1980	0.456	9861.2251	0.369	9861.2541	0.290	9861.2857	0.432	9861.3202	0.763	9861.3523	1.367
9861.1986	0.457	9861.2252	0.355	9861.2547	0.305	9861.2863	0.398	9861.3204	0.754	9861.3530	1.372
9861.1993	0.418	9861.2258	0.366	9861.2564	0.292	9861.2932	0.433	9861.3209	0.822	9861.3532	1.305
9861.1995	0.423	9861.2278	0.366	9861.2566	0.293	9861.2933	0.445	9861.3211	0.793	9861.3538	1.266
9861.2000	0.411	9861.2280	0.355	9861.2574	0.330	9861.2940	0.460	9861.3217	0.818	9861.3539	1.279
9861.2022	0.405	9861.2286	0.360	9861.2580	0.345	9861.2941	0.450	9861.3243	0.833	9861.3546	1.179
9861.2023	0.405	9861.2287	0.332	9861.2582	0.328	9861.2948	0.492	9861.3244	0.860	9861.3580	1.110
9861.2028	0.392	9861.2294	0.326	9861.2588	0.327	9861.2949	0.503	9861.3251	0.883	9861.3587	1.163
9861.2030	0.382	9861.2295	0.304	9861.2610	0.321	9861.2955	0.507	9861.3252	0.865	9861.3589	1.110
9861.2035	0.420	9861.2301	0.326	9861.2612	0.321	9861.2978	0.531	9861.3258	0.882	9861.3595	1.133
9861.2037	0.396	9861.2318	0.320	9861.2617	0.329	9861.2979	0.523	9861.3259	0.880	9861.3629	1.105
9861.2042	0.411	9861.2319	0.321	9861.2619	0.328	9861.2987	0.487	9861.3265	0.888	9861.3636	1.114
9861.2062	0.397	9861.2325	0.310	9861.2625	0.332	9861.2994	0.533	9861.3283	0.930	9861.3637	1.147
9861.2064	0.385	9861.2327	0.289	9861.2627	0.316	9861.3002	0.508	9861.3285	0.899	9861.3644	1.057
9861.2069	0.393	9861.2332	0.333	9861.2636	0.330	9861.3022	0.528	9861.3296	0.924	9861.3669	0.973
9861.2070	0.393	9861.2333	0.304	9861.2662	0.319	9861.3023	0.519	9861.3298	0.941	9861.3670	0.931
9861.2076	0.417	9861.2339	0.325	9861.2663	0.324	9861.3029	0.516	9861.3303	1.044	9861.3678	0.956
9861.2078	0.394	9861.2357	0.298	9861.2669	0.333	9861.3030	0.532	9861.3305	1.026	9861.3684	0.994
9861.2083	0.383	9861.2358	0.299	9861.2671	0.364	9861.3036	0.559	9861.3311	1.047	9861.3685	0.930
9861.2103	0.378	9861.2364	0.308	9861.2677	0.381	9861.3038	0.558	9861.3339	1.099	9861.3694	0.916
9861.2104	0.360	9861.2366	0.300	9861.2679	0.365	9861.3044	0.567	9861.3340	1.107	9861.3717	0.870
9861.2112	0.369	9861.2372	0.287	9861.2685	0.362	9861.3064	0.590	9861.3347	1.106	9861.3719	0.841
9861.2113	0.366	9861.2373	0.280	9861.2706	0.374	9861.3066	0.603	9861.3348	1.075	9861.3726	0.934
9861.2119	0.348	9861.2379	0.295	9861.2707	0.351	9861.3072	0.609	9861.3354	1.075	9861.3733	0.878
9861.2120	0.341	9861.2381	0.295	9861.2713	0.364	9861.3074	0.564	9861.3356	1.052	9861.3735	0.897
9861.2126	0.343	9861.2442	0.312	9861.2715	0.365	9861.3080	0.555	9861.3362	1.049	9861.3741	0.935
9861.2154	0.340	9861.2443	0.305	9861.2721	0.363	9861.3082	0.559	9861.3385	1.127	9861.3765	0.828
9861.2155	0.327	9861.2449	0.300	9861.2723	0.343	9861.3088	0.577	9861.3387	1.101	9861.3766	0.817
9861.2161	0.337	9861.2451	0.301	9861.2729	0.346	9861.3109	0.572	9861.3393	1.141	9861.3773	0.826
9861.2162	0.377	9861.2457	0.295	9861.2749	0.346	9861.3111	0.580	9861.3395	1.121	9861.3774	0.779
9861.2168	0.355	9861.2458	0.283	9861.2751	0.350	9861.3117	0.579	9861.3401	1.201	9861.3780	0.783
9861.2170	0.366	9861.2464	0.287	9861.2757	0.333	9861.3119	0.560	9861.3403	1.205	9861.3782	0.753
9861.2175	0.374	9861.2480	0.298	9861.2758	0.339	9861.3124	0.628	9861.3408	1.217	9861.3787	0.721
9861.2195	0.370	9861.2482	0.283	9861.2765	0.357	9861.3126	0.620	9861.3438	1.418	9861.3789	0.719

Table 3 Normal points of AU Ser in 1991

Phase	ΔV	n	Phase	ΔB	n
0.0121	-0.630	4	0.0135	-0.683	3
0.0303	-0.671	4	0.0304	-0.740	4
0.0471	-0.779	5	0.0493	-0.892	6
0.0694	-0.954	6	0.0725	-1.065	6
0.1167	-1.228	4	0.1160	-1.348	4
0.1305	-1.268	6	0.1341	-1.362	3
0.1495	-1.334	10	0.1494	-1.451	8
0.1695	-1.384	11	0.1695	-1.497	13
0.1899	-1.417	2	0.1830	-1.530	3
0.2089	-1.424	7	0.2145	-1.584	6
0.2293	-1.465	4	0.2286	-1.570	4
0.2533	-1.484	5	0.2517	-1.611	4
0.2636	-1.505	3	0.2711	-1.621	6
0.2909	-1.501	4	0.2882	-1.647	3
0.3082	-1.496	6	0.3104	-1.618	8
0.3301	-1.499	4	0.3302	-1.614	2
0.3493	-1.468	8	0.3491	-1.589	8
0.3777	-1.440	3	0.3894	-1.544	4
0.3926	-1.417	4	0.4092	-1.499	8
0.4104	-1.354	7	0.4301	-1.397	5
0.4300	-1.279	5	0.4420	-1.347	3
0.4423	-1.237	3	0.4661	-1.170	4
0.4659	-1.087	4	0.4870	-1.044	4
0.4878	-0.904	3	0.5085	-0.901	4
0.5073	-0.825	3	0.5300	-1.050	6
0.5286	-0.900	4	0.5501	-1.135	7
0.5489	-1.034	6	0.5752	-1.294	6
0.5744	-1.188	8	0.5871	-1.375	8
0.5920	-1.271	8	0.6100	-1.470	11
0.6072	-1.327	8	0.6301	-1.537	12
0.6300	-1.409	10	0.6507	-1.598	7
0.6499	-1.470	8	0.6661	-1.618	2
0.6780	-1.502	1	0.6936	-1.658	9
0.6894	-1.519	14	0.7194	-1.683	3
0.7018	-1.521	2	0.7296	-1.678	11
0.7297	-1.534	11	0.7448	-1.679	8
0.7436	-1.539	3	0.7690	-1.669	8
0.7689	-1.527	7	0.7905	-1.628	8
0.7892	-1.518	9	0.8112	-1.608	3
0.8116	-1.500	4	0.8290	-1.571	6
0.8304	-1.454	7	0.8407	-1.526	2
0.8509	-1.417	5	0.8877	-1.412	5
0.8875	-1.325	5	0.9026	-1.367	3
0.9030	-1.275	3	0.9349	-1.243	4
0.9348	-1.154	4	0.9487	-1.137	4
0.9487	-1.030	4	0.9643	-1.022	4
0.9644	-0.937	4	0.9956	-0.756	4
0.9956	-0.702	4			

Table 4 Normal points of AU Ser in 1992

Phase	Δ V	n	Phase	ΔB	n
0.0097	1.394	7	0.0083	1.186	8
0.0329	1.269	7	0.0318	1.063	6
0.0527	1.113	5	0.0507	0.906	6
0.0713	0.994	4	0.0710	0.759	4
0.0850	0.942	4	0.0830	0.689	4
0.1119	0.799	4	0.1123	0.542	4
0.1311	0.757	7	0.1295	0.510	6
0.1513	0.729	5	0.1493	0.460	6
0.1709	0.679	8	0.1709	0.418	8
0.1919	0.649	5	0.1904	0.379	4
0.2028	0.627	3	0.2021	0.352	4
0.2307	0.590	5	0.2310	0.327	5
0.2537	0.587	2	0.2469	0.324	5
0.2709	0.576	3	0.2717	0.303	4
0.2915	0.579	7	0.2905	0.318	6
0.3122	0.586	5	0.3091	0.324	6
0.3308	0.638	5	0.3290	0.364	4
0.3500	0.665	13	0.3493	0.394	14
0.3681	0.683	6	0.3680	0.414	6
0.3896	0.731	7	0.3885	0.469	6
0.4094	0.815	5	0.4077	0.548	6
0.4367	0.936	5	0.4365	0.686	5
0.4496	1.020	10	0.4487	0.758	9
0.4702	1.126	13	0.4686	0.865	12
0.4922	1.260	4	0.4923	1.029	4
0.5086	1.265	6	0.5082	1.018	6
0.5326	1.124	6	0.5328	0.885	6
0.5521	0.998	7	0.5507	0.745	6
0.5726	0.872	5	0.5706	0.628	6
0.5904	0.756	5	0.5903	0.497	5
0.6086	0.713	7	0.6083	0.449	7
0.6386	0.621	1	0.6399	0.350	1
0.6502	0.621	6	0.6460	0.343	4
0.6729	0.594	5	0.6691	0.310	7
0.6943	0.565	7	0.6936	0.276	6
0.7095	0.575	7	0.7091	0.293	10
0.7264	0.557	11	0.7291	0.292	10
0.7489	0.558	12	0.7488	0.290	10
0.7692	0.567	14	0.7678	0.292	14
0.7925	0.585	8	0.7919	0.315	10
0.8112	0.611	12	0.8112	0.343	12
0.8304	0.654	9	0.8298	0.388	11
0.8510	0.679	7	0.8509	0.427	7
0.8712	0.725	9	0.8678	0.467	6
0.8830	0.735	5	0.8820	0.487	4
0.9107	0.851	7	0.9109	0.616	7
0.9296	0.958	6	0.9275	0.700	5
0.9493	1.089	7	0.9483	0.841	8
0.9702	1.249	7	0.9715	1.026	8
0.9901	1.370	6	0.9903	1.154	4

Table 5 Normal points of AU Ser in 1995

Phase	ΔV	n	Phase	ΔB	n
0.0108	1.200	23	0.0112	1.018	17
0.0299	1.043	20	0.0304	0.854	24
0.0463	0.893	16	0.0472	0.699	14
0.0687	0.788	13	0.0689	0.601	14
0.0965	0.705	6	0.0947	0.506	4
0.1120	0.662	10	0.1131	0.452	10
0.1308	0.645	12	0.1314	0.429	15
0.1506	0.593	12	0.1507	0.379	10
0.1693	0.582	10	0.1677	0.369	11
0.1885	0.550	14	0.1876	0.323	14
0.2088	0.527	26	0.2086	0.295	28
0.2298	0.548	26	0.2300	0.285	27
0.2478	0.557	15	0.2485	0.294	17
0.2706	0.588	20	0.2712	0.307	20
0.2896	0.594	14	0.2896	0.309	14
0.3116	0.635	21	0.3114	0.353	18
0.3310	0.656	26	0.3301	0.385	27
0.3473	0.706	15	0.3475	0.429	15
0.3724	0.769	21	0.3725	0.532	23
0.3898	0.851	24	0.3898	0.606	24
0.4103	0.956	26	0.4110	0.748	26
0.4302	1.062	17	0.4309	0.902	19
0.4493	1.205	19	0.4495	0.996	18
0.4696	1.203	19	0.4714	0.986	14
0.4918	1.151	12	0.4925	0.945	11
0.5107	1.027	10	0.5123	0.794	10
0.5285	0.910	12	0.5292	0.659	12
0.5482	0.793	12	0.5483	0.544	12
0.5696	0.715	13	0.5694	0.460	13
0.5915	0.662	13	0.5912	0.399	13
0.6111	0.630	10	0.6093	0.355	10
0.6291	0.616	12	0.6293	0.351	14
0.6477	0.603	11	0.6490	0.346	12
0.6689	0.575	15	0.6690	0.304	15
0.6953	0.569	7	0.6955	0.298	7
0.7110	0.588	14	0.7105	0.317	13
0.7335	0.619	9	0.7304	0.320	11
0.7522	0.617	16	0.7515	0.347	17
0.7706	0.627	25	0.7706	0.371	25
0.7898	0.639	23	0.7913	0.408	20
0.8079	0.679	17	0.8098	0.466	18
0.8268	0.735	20	0.8267	0.502	16
0.8510	0.811	14	0.8504	0.558	13
0.8716	0.867	11	0.8707	0.622	12
0.8899	0.996	21	0.8885	0.766	24
0.9104	1.140	24	0.9094	0.952	26
0.9312	1.290	22	0.9312	1.157	24
0.9492	1.457	21	0.9505	1.399	21
0.9690	1.489	19	0.9694	1.374	21
0.9909	1.319	24	0.9900	1.173	17