

Epsilon Aurigae 1955-57 Eclipse Data

Data Reseached and Provided by Brian Skiff
June 2008

Source: 1960AJ.....65...97F

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Astron. J., 65, 97-100 (1960)

Observations of epsilon Aurigae.

--- Flower & Cook Obs 15-inch siderostat + 1P21 photomultiplier tube,
non-standard ubgr interference filters: blue filter center = 4250A,
yellow filter center = 5250A, both 90A wide (cf 1957AJ.....62..165W)

--- comp stars lambda Aur and 2 Aur

--- table data are epsilon minus lambda, yellow and blue obs only;
HJD dates rounded to 0.01 precision (mean of y and b observation dates)

HJD	del-y	del-b	HJD	del-y	del-b
2434760.52	-1.673	-1.777	2435790.76	-0.804	-0.890
2434771.51	-1.654	-1.767	2435791.75	-0.812	-0.901
2434780.56	-1.651	-1.752	2435792.73	-0.826	-0.899
2434781.51	-1.648	-1.745	2435793.73	-0.816	-0.884
2434792.53	-1.640	-1.752	2435796.74	-0.802	-0.882
2434796.49	-1.649	-1.755	2435801.71	-0.816	-0.895
2434808.51	-1.642	-1.756	2435808.68	-0.828	-0.924
2435084.61	-1.660	-1.783	2435811.65	-0.843	-0.964
2435110.62	-1.667	-1.785	2435817.68	-0.877	-0.962
2435112.54	-1.689	-1.762	2435819.70	-0.858	-0.945
2435115.55	-1.656	-1.796	2435826.66	-0.963	-1.024
2435116.60	-1.679	-1.805	2435833.62	-1.020	-1.074
2435125.60	-1.684	-1.819	2435838.57	-1.049	-1.166
2435128.58	-1.667	-1.810	2435840.64	-1.046	-1.126
2435142.57	-1.655	-1.800	2435841.58	-1.048	-1.132
2435143.61	-1.647	-1.802	2435849.60	-1.107	-1.194
2435146.53	-1.592	-1.795	2435853.57	-1.124	-1.211
2435152.54	-1.636	-1.769	2435855.61	-1.134	-1.228
2435157.52	-1.632	-1.758	2435856.56	-1.126	-1.220
2435190.53	-1.646	-1.735	2435857.59	-1.137	-1.190
2435197.52	-1.626		2435858.56	-1.136	-1.147
2435422.69	-0.925	-0.914	2435881.52	-1.252	-1.342
2435458.66		-1.037	2435887.52	-1.243	-1.305
2435469.59	-0.932		2435890.53	-1.340	-1.418
2435479.61	-0.911		2435891.52	-1.374	-1.426
2435497.58	-0.911	-1.015	2435901.56	-1.438	-1.413
2435752.81	-0.811	-0.880	2435902.55	-1.495	-1.451
2435755.81	-0.836	-0.905	2435903.52	-1.451	-1.470
2435757.81	-0.824	-0.908	2435907.59	-1.500	-1.506
2435771.82	-0.820	-0.898	2435908.56	-1.476	-1.521
2435775.80	-0.818	-0.881	2435910.56	-1.476	-1.543
2435782.81	-0.822	-0.894	2435912.56	-1.500	-1.540
2435783.77	-0.818	-0.895	2435914.56	-1.453	-1.543
2435788.80	-0.809	-0.874	2435915.56	-1.471	-1.565

HJD	del-y	del-b	HJD	del-y	del-b
2435919.54	-1.463	-1.566	2436209.58	-1.642	-1.736
2435921.55	-1.522	-1.572	2436212.58	-1.647	-1.770
2435929.54	-1.542	-1.588	2436215.58	-1.672	-1.792
2435931.56	-1.528	-1.572	2436223.58	-1.706	-1.832
2436207.57	-1.642	-1.744	2436243.58	-1.692	-1.822
2436208.57	-1.642	-1.748			

Adjusted Magnitudes (HPO)

uvby Photometric System

Mean value from:

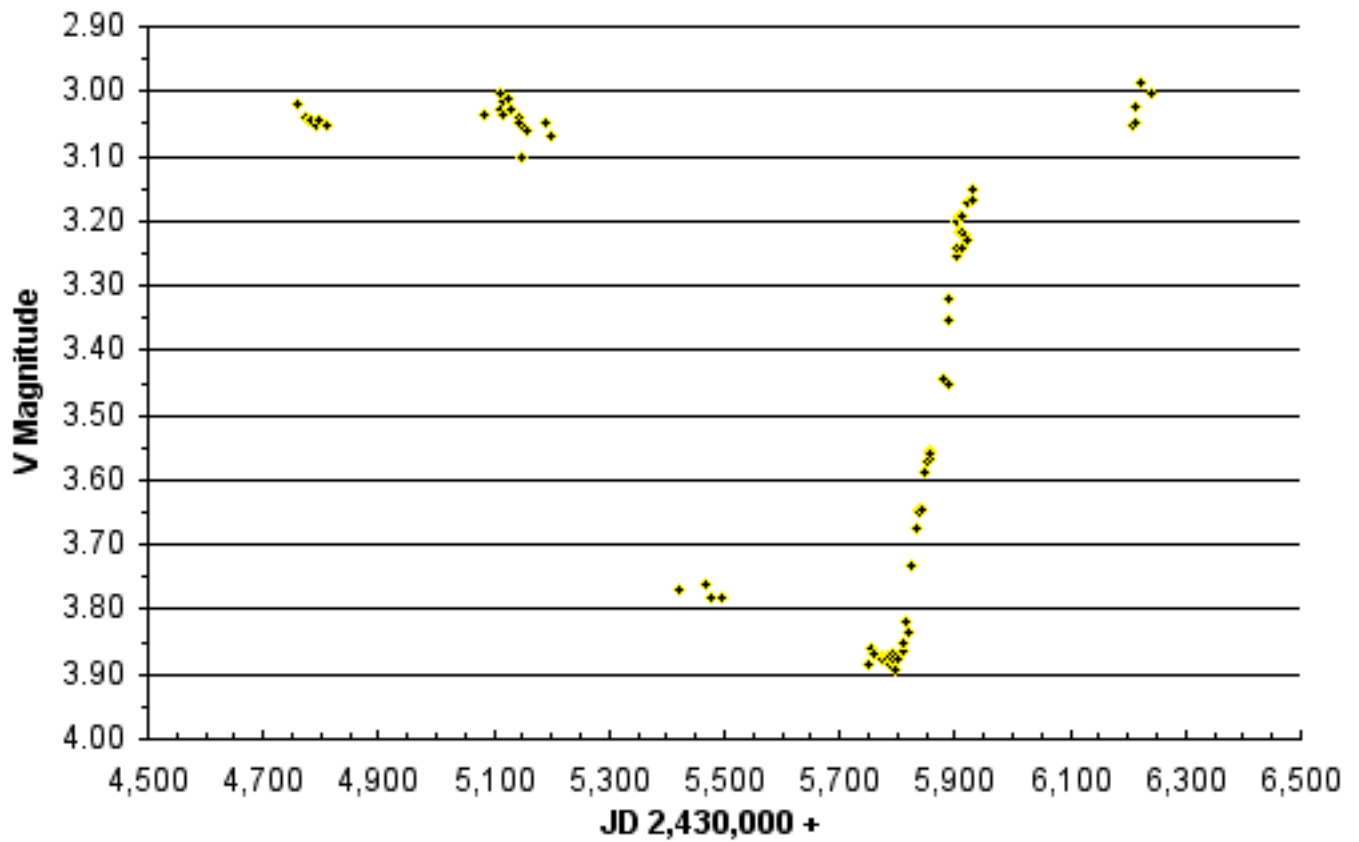
Hauck B. & Mermilliod M. 1998, Astron. Astrophys. Suppl. 129, 431

V	b-y	m1	c1	N	beta	Nb
4.694	0.390	0.204	0.364	25	2.600	13
0.006	0.002	0.003	0.004			

HJD	V	B	HJD	V	B
2,4030,000 +			2,4030,000 +		
4760	3.021	3.307	5808	3.866	4.16
4771	3.04	3.317	5811	3.851	4.12
4780	3.043	3.332	5817	3.817	4.122
4781	3.046	3.339	5819	3.836	4.139
4792	3.054	3.332	5826	3.731	4.06
4796	3.045	3.329	5833	3.674	4.01
4808	3.052	3.328	5838	3.645	3.918
5084	3.034	3.301	5840	3.648	3.958
5110	3.027	3.299	5841	3.646	3.952
5112	3.005	3.322	5849	3.587	3.89
5115	3.038	3.288	5853	3.57	3.873
5116	3.015	3.279	5855	3.56	3.856
5125	3.01	3.265	5856	3.568	3.864
5128	3.027	3.274	5857	3.557	3.894
5142	3.039	3.284	5858	3.558	3.937
5143	3.047	3.282	5881	3.442	3.742
5146	3.102	3.289	5887	3.451	3.779
5152	3.058	3.315	5890	3.354	3.666
5157	3.062	3.326	5891	3.32	3.658
5190	3.048	3.349	5901	3.256	3.671
5197	3.068		5902	3.199	3.633
5422	3.769	4.17	5903	3.243	3.614
5458		4.047	5907	3.194	3.578
5469	3.762		5908	3.218	3.563
5479	3.783		5910	3.218	3.541
5497	3.783	4.069	5912	3.194	3.544
5752	3.883	4.204	5914	3.241	3.541
5755	3.858	4.179	5915	3.223	3.519
5757	3.87	4.176	5919	3.231	3.518
5771	3.874	4.186	5921	3.172	3.512
5775	3.876	4.203	5929	3.152	3.496
5782	3.872	4.19	5931	3.166	3.512
5783	3.876	4.189	6207	3.052	3.34
5788	3.885	4.21	6208	3.052	3.336
5790	3.89	4.194	6209	3.052	3.348
5791	3.882	4.183	6212	3.047	3.314
5792	3.868	4.185	6215	3.022	3.292
5793	3.878	4.2	6223	2.988	3.252
5796	3.892	4.202	6243	3.002	3.262
5801	3.878	4.189			

V and B Plots of 1955-57 Eclipse (HPO)

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