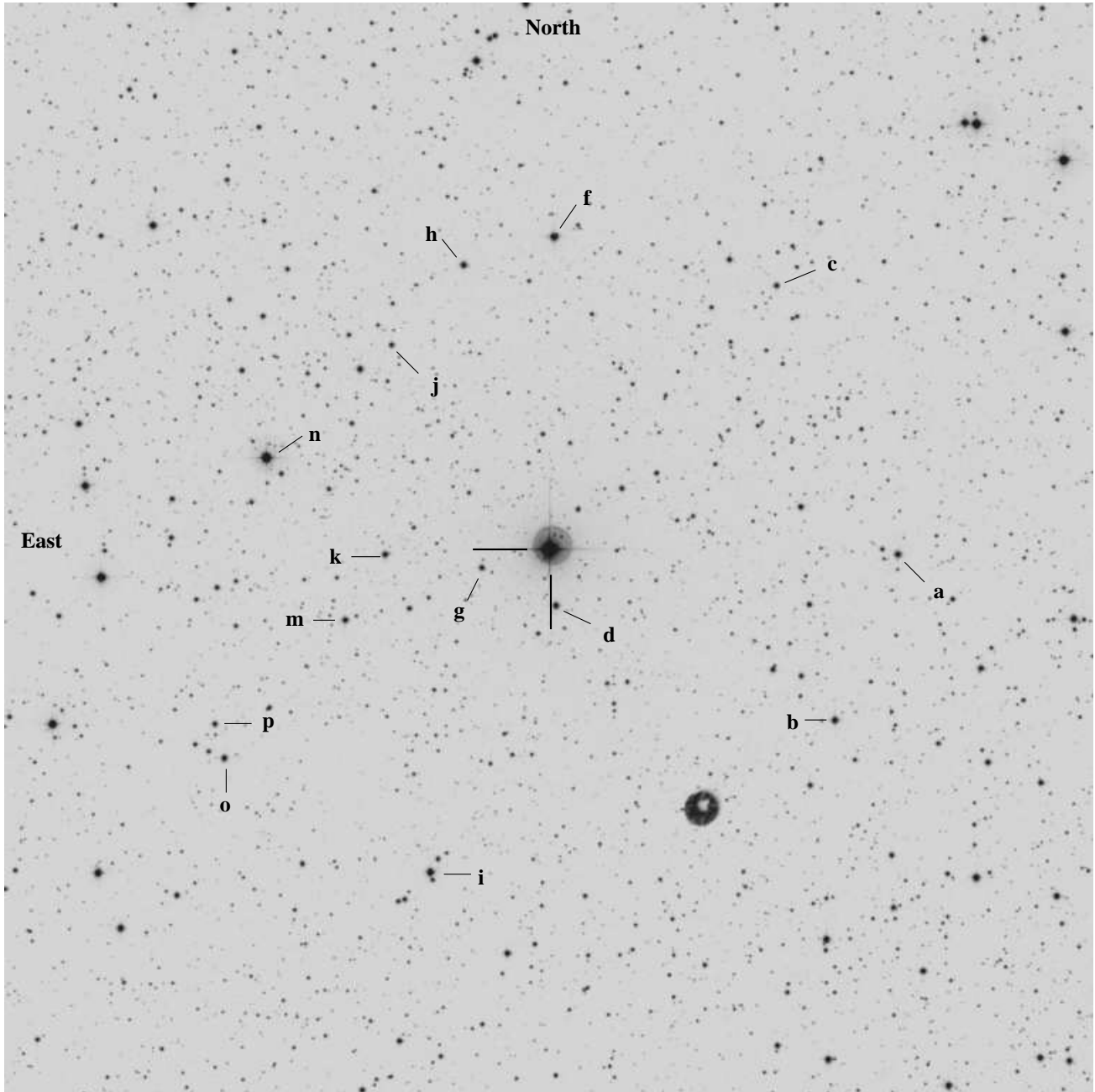


**LPH040, AUID 000-BCT-897 (AAVSO 0515+37,  
000-BCT-897, 0521+373, HD 34921, V420 Aur)**



0521+373:  $05^h22^m35^s.23 +37^\circ40'33''.6$  (J2000)  $V=7.51$ ,  $B-V=0.14$ ; 30m ( $1/2^\circ$ ) sq field  
— North up. In Auriga, Uranometria 97. Position from: SIMBAD

Comp and Check stars with B-V similar to object star (from SRO data)

Star	RA	Dec	B	V	R	I	
n	05 23 14.89	+37 42 53.6	10.092	9.980	9.830	9.704	Revision
f	05 22 35.53	+37 49 7.6	11.509	11.237	11.082	10.918	[2009-09-07]
h	05 22 48.05	+37 48 18.0	12.648	12.408	12.200	12.049	
j	05 22 57.83	+37 46 4.1	13.684	13.306	13.078	12.741	
m	05 23 3.42	+37 38 29.5	12.886	12.585	12.331	12.118	
o	05 23 19.78	+37 34 37.7	12.889	12.492	12.248	11.915	

Ensemble photometry is needed to keep the noise down. Use as many of the above as you can get into your FOV as the comp ensemble and one as check.

Henden SRO data reformatted

Star	RA	Dec	B	V	R	I	Comments*
a	05 21 46.84	+37 40 36.8	12.783	11.329	10.562	9.819	
b	05 21 55.15	+37 36 2.2	12.388	11.926	11.653	11.295	
c	05 22 4.42	+37 47 54.8	13.416	12.905	12.676	12.272	
d	05 22 34.19	+37 39 1.0	12.733	12.143	11.804	11.482	
e=obj	05 22 35.24	+37 40 33.6	7.630	7.381	7.154	6.904	
f=B	05 22 35.53	+37 49 7.6	11.509	11.237	11.082	10.918	A0, HD 280863
g	05 22 44.63	+37 40 0.4	13.541	12.987	12.654	12.244	
h	05 22 48.05	+37 48 18.0	12.648	12.408	12.200	12.049	
i	05 22 50.84	+37 31 37.8	11.921	11.457	11.154	10.854	
j	05 22 57.83	+37 46 4.1	13.684	13.306	13.078	12.741	
k	05 22 58.11	+37 40 18.8	12.955	12.351	12.085	11.650	
l	05 23 2.14	+37 45 22.6	12.761	12.196	11.887	11.499	
m	05 23 3.42	+37 38 29.5	12.886	12.585	12.331	12.118	
n=A	05 23 14.89	+37 42 53.6	10.092	9.980	9.830	9.704	Be, HD 280999
o	05 23 19.78	+37 34 37.7	12.889	12.492	12.248	11.915	
p	05 23 21.19	+37 35 33.6	13.572	12.965	12.648	12.146	

\* Information from SIMBAD

Note: V-I is used to determine I, not R-I.

k has been observed to be variable, and b is likely variable too.

Original Henden sequence data for 0521+373 from the 0.35m telescope at Sonoita Research Observatory (SRO):

RA(J2000)	raerr	DEC(J2000)	decerr	nobs	V	B-V	U-B	V-R	R-I	V-I	Errors					
80.445178	0.458	37.676877	0.036	3	11.329	1.454	99.999	0.767	0.740	1.510	0.026	0.036	9.999	0.015	0.016	0.032
80.479779	0.467	37.600612	0.218	3	11.926	0.462	99.999	0.273	0.352	0.631	0.031	0.041	9.999	0.098	0.074	0.039
80.518408	0.365	37.798563	0.294	3	12.905	0.511	99.999	0.229	0.369	0.633	0.013	0.064	9.999	0.131	0.130	0.037
80.642462	0.222	37.650269	0.129	3	12.143	0.590	99.999	0.339	0.322	0.661	0.017	0.090	9.999	0.042	0.030	0.006
80.646847	0.515	37.676013	0.106	3	7.381	0.249	99.999	0.227	0.248	0.477	0.010	0.009	9.999	0.002	0.004	0.004
80.648044	0.227	37.818767	0.148	3	11.237	0.272	99.999	0.155	0.164	0.319	0.038	0.013	9.999	0.058	0.042	0.010
80.685943	0.096	37.666789	0.187	3	12.987	0.554	99.999	0.333	0.404	0.743	0.025	0.072	9.999	0.077	0.095	0.066
80.700199	0.127	37.804999	0.175	3	12.408	0.240	99.999	0.208	0.156	0.359	0.034	0.031	9.999	0.097	0.037	0.056
80.711824	0.382	37.527168	0.214	3	11.457	0.464	99.999	0.303	0.299	0.603	0.023	0.030	9.999	0.022	0.038	0.060
80.740948	0.087	37.767805	0.209	3	13.306	0.378	99.999	0.228	0.273	0.565	0.043	0.195	9.999	0.110	0.059	0.052
80.742142	0.248	37.671879	0.158	3	12.351	0.604	99.999	0.266	0.421	0.701	0.033	0.170	9.999	0.054	0.044	0.093
80.758932	0.153	37.756269	0.120	3	12.196	0.565	99.999	0.309	0.380	0.697	0.012	0.066	9.999	0.066	0.039	0.046
80.764249	0.268	37.641517	0.280	3	12.585	0.301	99.999	0.254	0.242	0.467	0.080	0.177	9.999	0.188	0.038	0.109
80.812043	0.515	37.714893	0.143	3	9.980	0.112	99.999	0.150	0.127	0.276	0.020	0.012	9.999	0.013	0.034	0.048
80.832417	0.095	37.577140	0.284	3	12.492	0.397	99.999	0.244	0.324	0.577	0.018	0.049	9.999	0.083	0.101	0.033
80.838282	0.261	37.592671	0.120	3	12.965	0.607	99.999	0.317	0.485	0.819	0.036	0.062	9.999	0.080	0.100	0.049

**ARCHIVAL REFERENCE DATA: Do not** use the data below for photometry. It is here for archival reference only to tie in old data with new data.

Reference star data from SIMBAD						
Ref Star	ID	RA	Dec	B	V	
A=n	HD 280999	05 23 14.89	+37 42 53.7	10.06	10.03	
B=f	HD 280863	05 22 35.49	+37 49 07.6	10.		