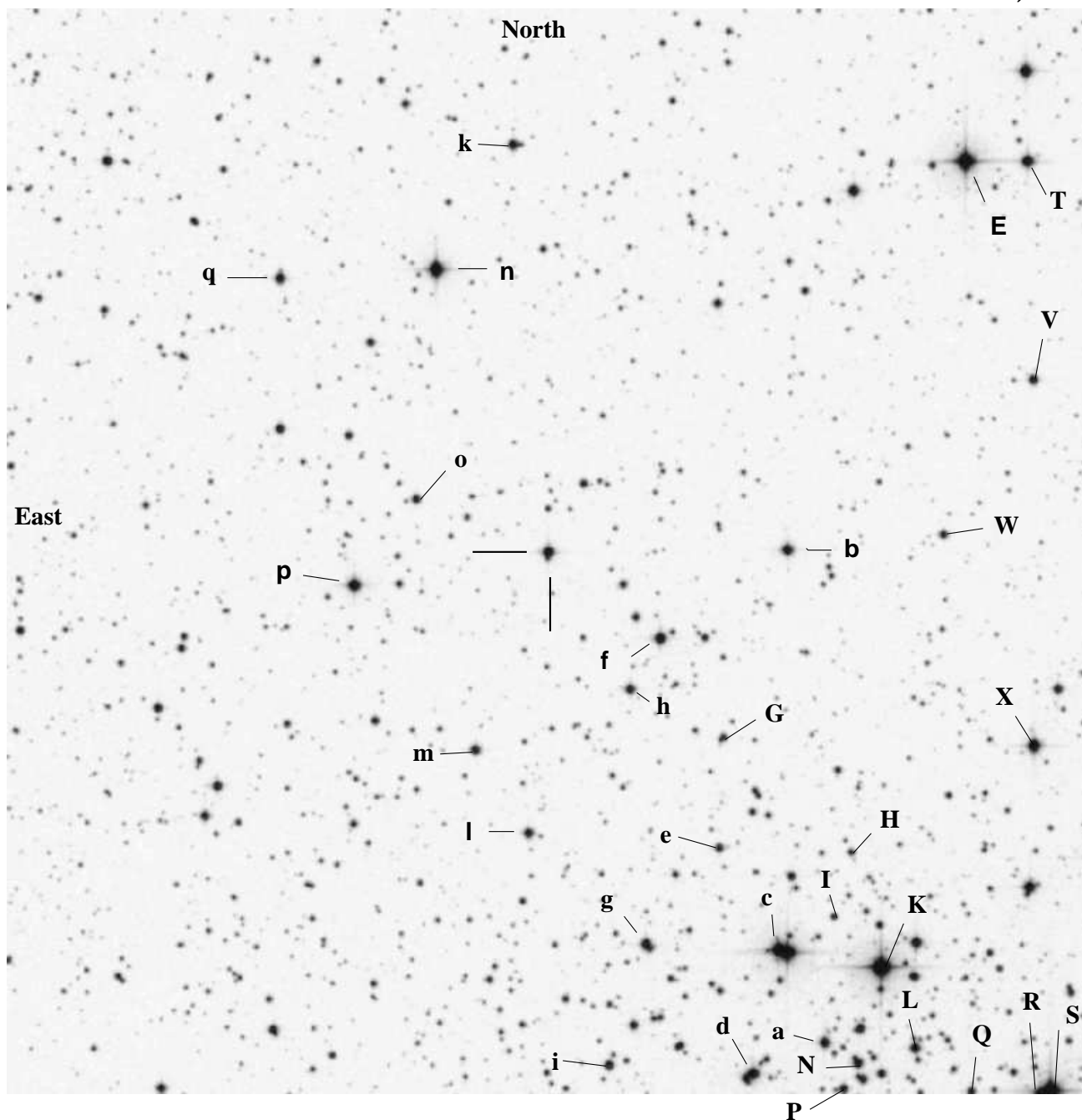


**LPH029, AUID 000-BCY-758 (V831 Cas,
RX J0146.9+6121, LS I+61°235, AAVSO 0140+60B)**



J0146.9+6121: $01^h47^m00^s.17 +61^\circ21'23''.7$ (J2000) $V=11.33$, $B-V=0.82$, 15m ($1/4^\circ$) sq field — North up. In Cassiopeia (in NGC 663), Uranometria 16. SIMBAD position.

Comp and Check stars with relatively neutral B-V (from SRO data)

Star	RA	Dec	B	V	R	I	
b	01 46 32.64	61 21 18.0	12.464	11.684	11.207	10.643	Revision
e	01 46 41.76	61 17 13.2	13.560	12.976	12.616	12.183	[2009-09-07]
p	01 47 22.80	61 21 03.6	11.378	10.857	10.517	10.124	
q	01 47 30.00	61 25 19.2	12.625	12.041	11.684	11.334	

Notes on data reduction: For standard differential photometry use p as the comparison star. For ensemble photometry use b, e, p and q only. If inhomogeneous ensemble photometry is used, set the zeropoint with the comp star p. If using aperture photometry include the faint companion just south of the object star in your aperture.

Original Henden sequence data for J0146.9+6121 from the 0.35m telescope at Sonoita Research Observatory (SRO) for stars fainter than 10th and brighter than 13th magnitude and in the field $26.626 < \text{RA} < 26.876$, $61.232 < \text{Dec} < 61.484$:

ID	RA(J2000)	raerr	DEC(J2000)	decerr	nobs	V	B-V	U-B	V-R	R-I	V-I	Errors					
a	26.628	0.186	61.241	0.06	4	12.269	0.629	99.999	0.45	0.491	0.947	0.014	0.016	9.999	0.009	0.023	0.027
b=D	26.636	0.094	61.355	0.036	4	11.684	0.78	99.999	0.477	0.553	1.041	0.008	0.008	9.999	0.009	0.01	0.008
c	26.65	0.34	61.263	0.238	3	11.053	0.594	99.999	0.628	-0.126	0.437	0.22	0.253	9.999	0.021	-0.002	-0.003
d	26.663	0.262	61.235	0.031	4	11.07	0.519	99.999	0.323	0.379	0.708	0.02	0.008	9.999	0.008	0.01	0.012
e	26.674	0.137	61.287	0.022	4	12.976	0.584	99.999	0.36	0.426	0.793	0.011	0.008	9.999	0.012	0.008	0.007
f=C	26.699	0.081	61.336	0.025	4	11.512	0.756	99.999	0.473	0.528	1.01	0.01	0.005	9.999	0.01	0.007	0.011
g	26.711	0.122	61.266	0.041	4	11.872	0.556	99.999	0.329	0.399	0.735	0.008	0.01	9.999	0.002	0.011	0.011
h	26.714	0.083	61.324	0.03	4	12.357	0.676	99.999	0.402	0.403	0.807	0.011	0.005	9.999	0.01	0.014	0.01
i	26.731	0.153	61.238	0.045	4	12.83	1.082	99.999	0.632	0.617	1.253	0.015	0.012	9.999	0.012	0.015	0.021
j=obj	26.751	0.052	61.357	0.025	4	11.408	0.64	99.999	0.414	0.484	0.908	0.014	0.009	9.999	0.001	0.01	0.011
k	26.761	0.097	61.45	0.026	4	12.25	0.623	99.999	0.382	0.358	0.738	0.015	0.005	9.999	0.016	0.008	0.007
l=F	26.766	0.087	61.292	0.024	4	12.351	0.666	99.999	0.47	0.521	0.999	0.024	0.006	9.999	0.003	0.011	0.013
m	26.79	0.063	61.312	0.026	4	12.585	0.998	99.999	0.578	0.562	1.143	0.006	0.004	9.999	0.017	0.012	0.011
n=B	26.8	0.093	61.423	0.031	3	10.422	1.216	99.999	0.701	0.64	1.341	0.138	0.084	9.999	0.033	0.072	0.107
o	26.814	0.049	61.37	0.03	4	12.897	0.604	99.999	0.364	0.427	0.799	0.008	0.011	9.999	0.014	0.011	0.003
p=A	26.845	0.041	61.351	0.026	4	10.857	0.521	99.999	0.34	0.388	0.733	0.02	0.027	9.999	0.025	0.011	0.025
q	26.875	0.102	61.422	0.038	4	12.041	0.584	99.999	0.357	0.35	0.707	0.013	0.007	9.999	0.015	0.012	0.01

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

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	comments
A=p	NGC 663 G 138	01 47 22.69	+61 21 02.5	11.35	10.79	
B=n	BY Cas (Cepheid)	01 47 11.92	+61 25 21.0	11.5	10.41	
C=f	TYC 4032- 1383-1	01 46 47.72	+61 20 08.9	12.26	11.52	
D=b	TYC 4032- 1091-1	01 46 32.63	+61 21 17.9	12.09	11.64	
E	SAO 11970	01 46 10.22	+61 26 33.2	9.77	9.11	
F=l	NGC 663 SAN 23	01 47 03.70	+61 17 32.2		12.2	V986 Cas
Other data						
G	W135					
H	W79					
I	W41					
J=c	W39 V985Cas					
K	W44					
L	W10 V980Cas					
M=a	W6 V984Cas NSV15383					
N	W8 V982Cas					
O=d	W4					
P	W14					
Q	W51 V979Cas					
R	W53					V978Cas?
S	W54					V978Cas?
T						New EA
U=m						var?1, likely dSct
V						var?2, likely dSct
W						var?3, likely dSct
X						var?4, likely dSct