



PHOTOMETRY APASS





PHOTOMETRY - APASS

Overview

The AAVSO Photometric All-Sky Survey (APASS) performed an all-sky photometric survey in five filters: Johnson B and V, plus Sloan g' , r' , i' . The magnitudes range from 7th magnitude to about 17th magnitude.

This catalog helps various research programs establish transformation between different filter systems and achieve conversion of photometry to more fundamental physical properties as it bridges the gap between Tycho2 and SDSS.

The screenshot shows the AAVSO website header with the logo 'AAVSO American Association of Variable Star Observers'. Below the header is a navigation bar with links: Home, Contact Us, FAQ, AAVSO Store, CCD School Videos, CHOICE Courses, and Donate. The main content area has a breadcrumb trail 'Home » Data' and a title 'APASS: The AAVSO Photometric All-Sky Survey'. A section titled 'Data Release 9 is now available.' contains text about the survey's progress and data availability. The text states that the survey is conducted in five filters: Johnson B and V, plus Sloan g' , r' , i' . It mentions that Data Release 9 occurred on July 29, 2015, and that the survey will take approximately one more year to complete.



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Accessing The Catalog

To use the APASS catalog, you have to be an AAVSO member.

From the AAVSO home page, select DATA – THE AAVSO PHOTOMETRIC ALL-SKY SURVEY (APASS)

Halfway down the APASS page you will see this:

Access APASS

- [Access form](#)
- [Description of APASS and APASS DR1](#) (in preparation for publication)

Select ACCESS FORM

The screenshot shows the AAVSO website interface. The top navigation bar includes links for 'About Us', 'Community', 'Variable Stars', 'Observing', 'Data', and 'Getting Started'. The 'Data' dropdown menu is open, showing options like 'AAVSO International Database (AID)', 'Portal for Researchers', 'Historic Light Curves', 'Eggen Card Project', 'WebObs (Submit/Search Data)', 'Data Access', 'Data Analysis', and 'The AAVSO Photometric All-Sky Survey (APASS)'. A red arrow points from the text 'From the AAVSO home page, select DATA – THE AAVSO PHOTOMETRIC ALL-SKY SURVEY (APASS)' to the 'The AAVSO Photometric All-Sky Survey (APASS)' link in the dropdown menu. Below the navigation bar, there are sections for 'Support the AAVSO' (with buttons for 'Become a Member', 'Donate Today', 'Adopt a Variable Star', and 'Donate with Amazon Smile'), 'Announcing the Candidates for 2018 AAVSO Council Election!', and 'Pick a Star'. At the bottom, there is a 'Recent Activity' section with 'Variable Star Observations in Database' and 'Last Observation Received'.



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Accessing APASS Data

From the “Download APASS Data” page, insert the desired RA and DEC as well as a search radius around the target for your desired object.

Select the results to be either HTML or CSV.

Hit SEARCH APASS DATA when ready.

AAVSO
American Association of Variable Star Observers

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Home [Print This Page](#)

Download APASS Data

Search APASS Data Release 9:

R.A.	Dec.	Radius (degrees)
<input type="text" value="05 59 57.08"/>	<input type="text" value="+53 09 46.2"/>	<input type="text" value="1"/>

☒ HTML output
☐ CSV output



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APASS Results

The results will be displayed, HTML in this case, on a web page. The positions will be listed as well as magnitudes in varying filters.

These stars can be selected for Transform Coefficients as well as standardized Comp Stars.

APASS Data Release 9 Query Results

Notes are available at the bottom of the table.

RA	RAerr*	Dec.	Dec. err*	# of Obs.	Johnson V	Verr	Johnson B	Berr	Sloan g'	g'err	Sloan r'	r'err	Sloan i'	i'err
88.359585	0.679	53.182636	0.544	2	15.516	0.006	16.259	0.022	15.847	0.047	15.261	0.021	15.124	-0
88.361243	0.603	53.044467	0.536	4	13.266	0.152	14.223	0.54	13.594	0.202	13.014	0.131	12.781	0.076
88.361576	0.552	53.253016	0.363	2	15.734	-0	16.385	-0	16.018	0.062	15.45	0.086	15.029	0.18
88.361791	0.559	53.143467	0.584	5	14.276	0.081	15.082	0.203	14.56	0.05	13.953	0.024	13.739	0.036
88.362149	0.82	53.231286	0.445	2	15.426	-0	16.568	-0	15.953	0.006	14.966	0.06	14.426	0.006
88.363178	0.679	53.088914	0.573	3	14.744	0.133	15.641	0.286	15.077	0.019	14.435	0.008	14.199	-0



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Summary

The AAVSO Photometric All-Sky Survey (APASS) provides a means to measure your photometric system and provide standardized, known comparison stars for differential photometry.

This catalog can be used for all aspects of photometry and calibration.



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Questions?