



CATALOGS AAVSO Areas of Interest





CATALOGS - AAVSO Areas of Interest

Overview

The American Association of Variable Star Observers (AAVSO) is an international non-profit organization dedicated to variable star research.

There are literally hundreds of thousands of variable stars and professional astronomers do not have the time or resources to observe even a fraction of them. This is where individual observers bring value to the AAVSO.

The role of the AAVSO is:

- Observe, study and analyze variable stars
- Collect and archive variable star data for scientists, educators and the public to use
- Enable amateur astronomers to collaborate with professional astronomers
- Promote scientific education and research



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Main Page

Search

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My profileMy accountLogout

About UsCommunityVariable StarsObservingDataGetting Started

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American Association of Variable Star Observers

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Our Mission
What We Do
Get Involved

Information For

- General Public
- Observers
- Researchers

Active forum topics

Submit sin adjuntar Phase plot

Submit sin adjuntar Phase plot

JAASVO

The Journal of the American Association of Variable Star Observers



Support the AAVSO

Become a Member

Donate Today

Adopt a Variable Star

Donate with Amazon Smile

107th Annual Fall Meeting

Registration NOW OPEN!!!!



Read more...

Pick a Star

Star name here

Type star name then click action:

Plot a light curve

Check recent observations

Create a finder chart

Search VSX

Learn More

Recent Activity

Variable Star Observations in Database:

37,111,349 and Counting ...

Last Observation Received:

15 min 34 sec ago by OCN - Steve O'Connor (BM)

U AQR Nov 18.4844 <16.51

Plot U AQR light curve

Alert Notice 656: Chandra observation date revised for XZ Tau and HL Tau Nov 7

LPV of the Month November, 2018 Nov 1

Alert Notice 655: Anticipated secondary eclipse of b Persei by its third star in November 2018 Oct 30

Alert Notice 654: XZ Tau and HL Tau monitoring needed for Chandra observations Oct 29

Alert Notice 653: Nova in Norma: N Nor 2018 = PNV J16143400-5330050 Oct 26

News Archives

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Variable Star Main Page

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Variable Stars Main

- What Are They & Why Observe Them?
- The Stories Variables Tell
- Types of Variables
- Variable Star of the Season
- Educational Materials
 - CHOICE Online Institute
 - CCD School Videos
 - Student Projects
 - Two Eyes, 3D
 - Variable Star Astronomy
 - H-R Diagram Plotting Activity
- Reporting Variable Star Discoveries
- Variable Star Index (VSX)
- AAVSO in Print - Publications Using AAVSO Data

Tags:
[variable stars](#)

Submitted by [owentooke](#) on Thu, 08/24/2017 - 15:16



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How to Observe Variable Stars

The screenshot shows the AAVSO (American Association of Variable Star Observers) website. The header includes navigation tabs: About Us, Community, Variable Stars, Observing, Data, and Getting Started. Below the header is a banner image of a nebula with the AAVSO logo and name. A secondary navigation bar contains links: Home, Contact Us, FAQ, AAVSO Store, CCD School Videos, CHOICE Courses, and Donate. Social media icons for Facebook, Twitter, and RSS are also present. The main content area is titled 'Observing Main' and contains a list of links:

- Observing at a Glance
- Observing Sections
- Alert Notices & Observing Campaigns
- Observing Manuals
 - Visual Observing Manual
 - CCD Photometry Guide
 - DSLR Observing Manual
 - Exoplanet Observing Guide
 - PEP Observer's Guide
 - Solar Observing Guide
- WebObs (Search AID or Submit Your Data)
- Variable Star Charts
 - Variable Star Plotter (VSP)
 - Report Chart Errors
 - Request Comparison Stars
- AAVSO Target Tool
- Observation Planner Tool
- JD Calculator & Calendar
- Software Directory


Below the list, there is a 'Tags:' section with the tag 'observing'. At the bottom, it says 'Submitted by owentooke on Thu, 08/24/2017 - 15:30'.






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Obtaining Data for your Variable Star

[About Us](#) [Community](#) [Variable Stars](#) [Observing](#) [Data](#) [Getting Started](#)



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[Home](#) [Print This Page](#)

Data Main

- [AAVSO International Database \(AID\)](#)
- [Portal for Researchers](#)
- [Historic Light Curves](#)
- [Eggen Card Project](#)
- [WebObs \(Submit/Search Data\)](#)
- [Data Access](#)
 - [Download Data in ASCII Form](#)
 - [Light Curve Generator \(LCGv2\)](#)
 - [Light Curve Generator \(LCGv1\)](#)
 - [MyNewsFlash - Real-Time Data Delivery](#)
 - [WebObs Search \(Search the AID\)](#)
- [Data Analysis](#)
 - [Transformation](#)
 - [VPHOT - Online Photometry Tool](#)
 - [Zapper - Help Validate Data](#)
 - [VStar - Java Visualization & Analysis Tool](#)
- [The AAVSO Photometric All-Sky Survey \(APASS\)](#)
- [AAVSONet Epoch Photometry Database](#)
- [AAVSONet](#)

Tags:
[data](#)

Submitted by [owentooke](#) on Mon, 10/02/2017 - 16:25

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Variable Star Tutorials

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Getting Started

- [What Are Variable Stars?](#)
- [Things to Do](#)
- [Find a Mentor](#)
- [Online Forum for Help and Advice](#)
- [Observing Tutorials](#)
 - [10-Star Tutorial \(Visual Observations of Variable Stars\)](#)
 - [5-Star Tutorial \(Data Analysis\)](#)

Submitted by [owentooke](#) on Mon, 10/02/2017 - 16:10




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Variable Star Index (VSX)

Main database for retrieving Variable Star data

AAVSO Home

The International Variable Star Index

[Search](#) [Submit](#) [Register](#) [Log In](#) [Account](#) [About](#)

Current Time: 18 Nov 2018 19:25:31 UTC

Welcome, Guest. You are not logged in.
[» Log in](#)

Search VSX

Special searches

Changes in last week...
[» Go](#)

Select a Special search above, or enter information in the fields below, then click **Search**.

Name

Examples: SS Cyg, V456 Sgr, NSV 1009
%And, ASAS %*%, Mis V%
Search by AUID also available

» Capture coordinates for object to Position field

Const.

--
Filters search results by boundaries of selected constellation

Include

☒ Variables
☒ Non-variables

☒ Suspects
☐ Not checked

Order by

GCVS sequence
☐ Descending

Click **More** for coordinate-based searches.

More

Clear

Reset

Plot (Galactic)

Plot (Equatorial)

Search

[» Guidelines](#) [» FAQ](#) [» Manual](#) [» Forum](#) [» Variability Types](#) [» Passbands](#) [» Copyright](#) [» Acknowledgments](#) [» Privacy](#) [» Contact](#) [» Help us](#)

The International Variable Star Index
© 2005-2018 American Association of Variable Star Observers (AAVSO)
Version 1.1 [C]
68.6.183.154

Latest Details			?									
Log in to retrieve additional aliases from SIMBAD.												
Name	SS Cyg											
AAVSO UID	000-BCP-220 (575417 observations)											
Constellation	Cygnus				» Sequence							
J2000.0	21 42 42.79 +43 35 09.9 (325.67829 +43.58608)				» Search nearby							
B1950.0	21 40 44.48 +43 21 22.9											
Proper motion	RA: 113.106 +/- 1.157 mas/y		Dec: 32.750 +/- 0.613 mas/y		Source: Gaia DR1							
Galactic coord.	90.559 -7.111											
Other names (Internal only)	<div>Please note that aliases shown in grey link to obsolete records.</div> <div><div>1RXS J214242.6+433506</div><div>AAVSO 2138+43</div><div>BD+42 4189</div><div>Downes SS Cyg</div><div>HD 206697</div><div>HV 84</div><div>IOMC 3196000059</div><div>X 21407+433</div></div> <div>(Not logged in) » Add name</div>											
Variability type	UGSS											
Spectral type	K5V+pec(UG)											
Mag. range	7.7 - 12.4 V											
Discoverer	Louisa D. Wells, 1896											
Epoch	--											
Outburst	--											
Period	0.2751300 d (6.60312 h)											
Rise/eclipse dur.	--											
Remarks												
Some references may be clicked to view in new window. Roll over index number to view submission details.												
1	GCVS Team	SB2 (P = 0.27512995d [M.E.Walker, ApJ 248, 256, 1981.]). During maxima of brightness there are oscillations of light and X-ray flux with amplitudes about 0.002m V and periods changing between 7.29s and 10.90s [J.Patterson, ApJ Suppl 45, 517, 1981., R.H.Hildebrand, E.J.Spillar, R.F. Stiening, ApJ 243, 223, 1981.].				(Not logged in) » Add remark						
References												
Click reference title/citation to view in new window. Roll over index number to view submission details.												
1	J. Alfonso-Garzon, A. Domingo, J.M. Mas-Hesse, A. Gimenez, 2012, arXiv:1210.0821 [astro-ph.IM] (online info)				2012arXiv1210.0821A							
2	S. Scaringi et al., 2009, arXiv:0910.0954v1 [astro-ph.GA]				2009arXiv0910.0954S							
3	R.A. Downes et al., 2001, PASP 113, 764 (2006 archival version)				2005JAD....11....2D							
4	R.A. Downes et al., 2001, PASP 113, 764				2001PASP..113..764D							
5	J.A.Mattei, JRAS Can 74, N5, 317- 320, 1980.				1980JRASC..74..327M							
6	T. Köhl, AN 196, 145, 1913.				1913AN....196..145K							
7	F.Lenouvel, J.Dagouillon, JO 39, N1, 9, 1956.				--							

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Variable Star Plotter (VSP)

Variable Star Plotter

[VSP Help Guide](#) [Request a Sequence](#) [Report chart errors](#) [Standard field charts](#)

PLOT A QUICK CHART

WHAT IS THE NAME, DESIGNATION OR AUID OF THE OBJECT?

Required if no coordinates are provided below

RIGHT ASCENSION

Allowed Formats: HH:MM:SS, HH MM SS, DDD.XXXX. Required if no name is given above

DECLINATION

Allowed Formats: \pm DD:MM:SS, \pm DD MM SS, \pm DD.XXXX. Required if no name is given above

CHOOSE A PREDEFINED CHART SCALE

A is larger, slower; G is smaller, faster

CHOOSE A CHART ORIENTATION

☒ Visual ☐ Reversed ☐ CCD

PLOT A FINDER CHART OR A TABLE OF FIELD PHOTOMETRY? *

☒ Chart ☐ Photometry

CHART ID

A Chart ID will allow you to reproduce prior charts. Overrides all other fields in this form.

Plot Chart

Clear Form

ADVANCED OPTIONS

FIELD OF VIEW

In Arcminutes. Must be between 0' and 1200'

MAGNITUDE LIMIT

Stars fainter than this magnitude will not be displayed

RESOLUTION

Resolution in dpi to render the chart (default 150)

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AAVSO Target Tool

AAVSO Target Tool

Observing section:

☒ Alerts/Campaigns

☒ Exoplanets (EP)

☒ Cataclysmic Variables (CV)

☒ Eclipsing Variables (EB)

☒ Short Period Pulsators (SPP)

☒ Long Period Variables (LPV)

☒ Young Stellar Objects (YSO)

☒ High Energy Targets (HET)

☐ Miscellaneous

☐ All

Filter observing sections

Observability:

To show only targets that are visible tonight at your telescope location, [sign up](#) or [login](#).

Star Name	RA (J2000.0)	Dec (J2000.0)	Constellation	Var. Type	Min Mag	Max Mag	Period (d)	Observing Cadence (d)	Observing Section	Filter/Mode	Last Observed	High Priority
AR And	01 ^h 45 ^m 03 ^s	+37° 56' 33"	And	UGSS	17.6 V	11.0 V	0.163	5.0	CV	All	1 day ago	
DX And	23 ^h 29 ^m 46 ^s	+43° 45' 04"	And	UGSS	15.5 V	11.0 V	0.440502	5.0	CV	All	1 day ago	
EG And	00 ^h 44 ^m 37 ^s	+40° 40' 45"	And	ZAND+E	7.8 V	6.97 V	482.57	10.0	CV	All	17 hours ago	
FN And	01 ^h 11 ^m 57 ^s	+35° 17' 24"	And	UGSS	19.3 V	12.9 V		5.0	CV	All	1 day ago	
FO And	01 ^h 15 ^m 32 ^s	+37° 37' 35"	And	UGSU	17.5 V	13.1 V	0.07161	5.0	CV	All	1 day ago	
LS And	00 ^h 32 ^m 10 ^s	+41° 58' 11"	And	UGWZ:	20.2 B	11.7 B		5.0	CV	All	1 day ago	
PQ And	02 ^h 29 ^m 29 ^s	+40° 02' 39"	And	UGWZ+ZZ/GWL IB	19.2 V	10.0 V	0.056	5.0	CV	All	1 day ago	
RX And	01 ^h 04 ^m 35 ^s	+41° 17' 57"	And	UGZ	14.8 V	10.3 V	0.209893	5.0	CV	All	21 hours ago	
Z And	23 ^h 33 ^m 39 ^s	+48° 49' 05"	And	ZAND	11.3 V	7.7 V		5.0	CV	All	15 hours ago	
DH Aql	19 ^h 26 ^m 10 ^s	-10° 15' 28"	Aql	UGSU	17.0 p	12.5 p		5.0	CV	All	3 weeks ago	
FO Aql	19 ^h 16 ^m 38 ^s	+0° 07' 37"	Aql	UGSS	17.5 p	13.6 p	0.217735	5.0	CV	All	1 month ago	
KX Aql	19 ^h 33 ^m 53 ^s	+14° 17' 47"	Aql	UGSU	—	12.5 p	0.06035	5.0	CV	All	4 days ago	
UU Aql	19 ^h 57 ^m 18 ^s	-9° 19' 21"	Aql	UGSS	17.0 V	11.0 V	0.163532	5.0	CV	All	1 week ago	
V0603 Aql	18 ^h 48 ^m 54 ^s	+0° 35' 02"	Aql	NA	12.4 V	-1.4 V	0.13820103	5.0	CV	All	1 month ago	
V0725 Aql	19 ^h 56 ^m 45 ^s	+10° 49' 32"	Aql	UGSU	16.2 p	13.7 p	0.0944	5.0	CV	All	2 weeks ago	


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Observation Planning

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Observation Planner Tool

Variable type (Use "%" for wildcard):

Faint limit of equipment

Local standard time (integer hour from 0 to 24; e.g. 9PM = 21)

Maximum hours east or west of meridian

Declination (southernmost)

Declination (northernmost)

Web page ☒ CSV file ☐



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Data Access Portal

The screenshot shows the AAVSO Data Access portal. At the top, there is a navigation bar with links: About Us, Community, Variable Stars, Observing, Data, and Getting Started. Below this is a large banner image of a nebula with the AAVSO logo and the text "American Association of Variable Star Observers". Under the banner is another navigation bar with links: Home, Contact Us, FAQ, AAVSO Store, CCD School Videos, CHOICE Courses, and Donate. On the right side of this bar are social media icons for Facebook, Twitter, and RSS. The main content area has a "Home" link and a "Print This Page" link. The title "Data Access" is underlined. The text "The AAVSO Data Access portal" is followed by a list of links: "Go to Data Download.", "Go to WebObs (search observations).", "Go to Light Curve Generator.", "Go to Data Usage Guidelines.", and "Go to Information about AAVSO Data.". The section "AAVSO Data" is followed by a paragraph: "The AAVSO holds a data archive of over 34 million variable star observations collected by thousands of observers over more than a century. This archive is known as the AAVSO International Database, or AID. These data come from a number of sources, including:". Below this is a bulleted list: "visual magnitude estimates", "photographic plate estimates and plate measurements", "CCD photometry", "Photoelectric photometry", "DSLR photometry", and "visual magnitude estimates made from digital images".

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Data Access

The AAVSO Data Access portal

[Go to Data Download.](#)
[Go to WebObs \(search observations\).](#)
[Go to Light Curve Generator.](#)
[Go to Data Usage Guidelines.](#)
[Go to Information about AAVSO Data.](#)

AAVSO Data

The AAVSO holds a data archive of over 34 million variable star observations collected by thousands of observers over more than a century. This archive is known as the **AAVSO International Database**, or **AID**. These data come from a number of sources, including:

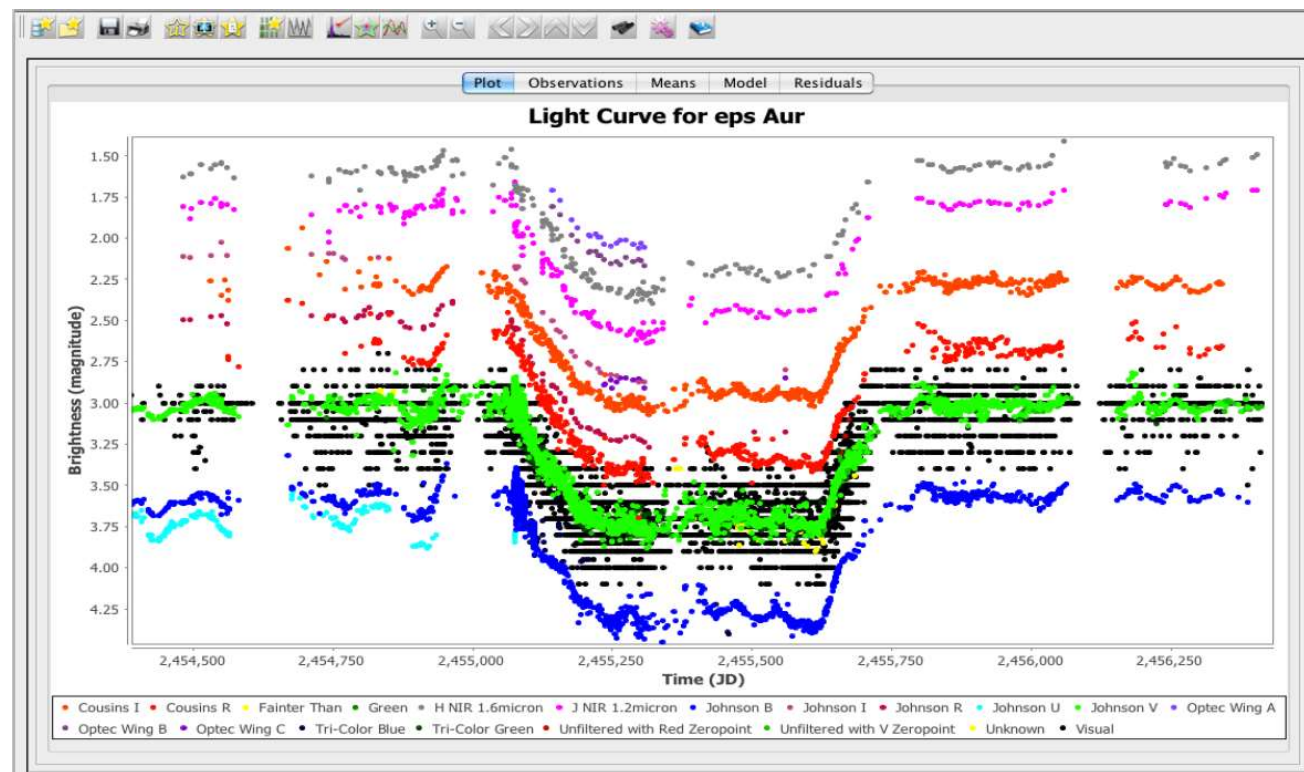
- visual magnitude estimates
- photographic plate estimates and plate measurements
- CCD photometry
- Photoelectric photometry
- DSLR photometry
- visual magnitude estimates made from digital images

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VStar

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APASS

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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[Download APASS Data](#)

Search APASS Data Release 9:

R.A.	Dec.	Radius (degrees)
05 59 57.08	+53 09 46.2	1

☒ HTML output
 ☐ CSV output

Search APASS Data



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Summary

The AAVSO, whose origin extends beyond 100 years ago, is dedicated to research and outreach.

Professionals and amateurs can contribute to the field of Variable Stars.

Beyond their suite of tools, there are many active groups to become a part of:

Exoplanets

Cataclysmic Variables

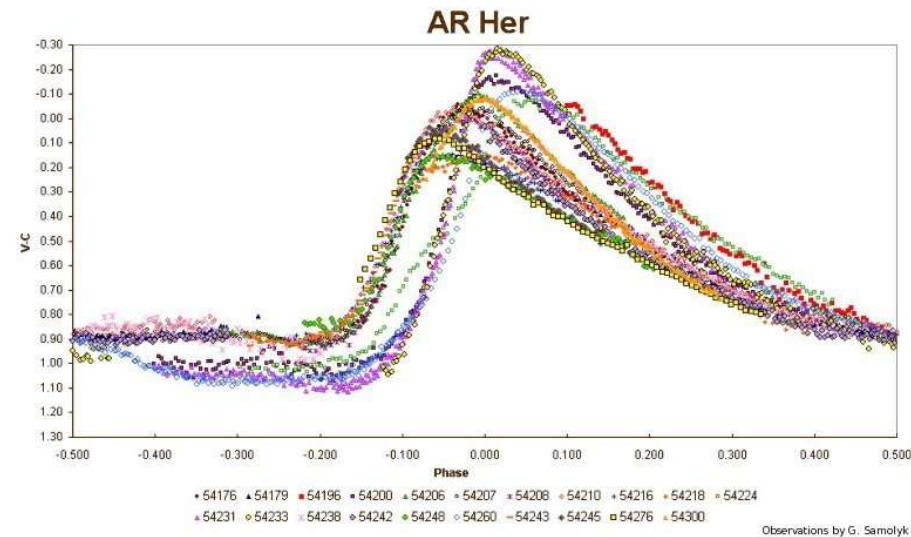
Eclipsing Binaries

Short Period Pulsators (ex. RR Lyrae)

Long Period Variables (ex. Mira)

Young Stellar Objects (ex. T Tauri)

High Energy (ex. Novae, supernova, Gamma ray bursts)





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Questions?