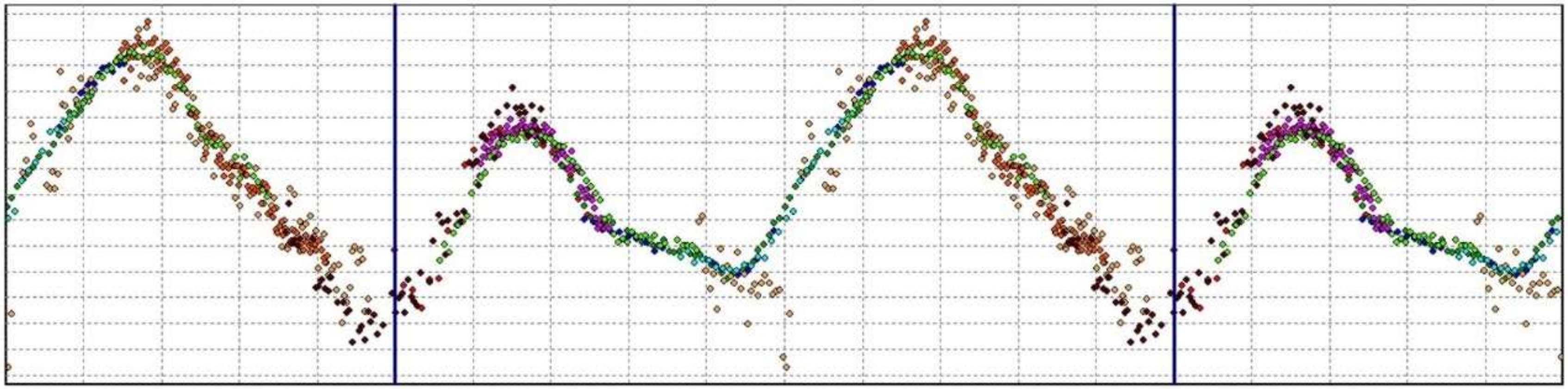
III WORKSHOP GRUPO G.O.R.A

Tanti - Córdoba
14 y 15 de Marzo 2020

3er Encuentro del Grupo de Observadores de Rotaciones de Asteroides (GORA)

Tanti (Provincia de Córdoba) – 13, 14 y 15 de marzo de 2020



Cupo limitado: 20 personas.

Inscripciones por correo electrónico: cacolazo@hotmail.com

Programa:

- Viernes 13 - 15:00 a 21:00 - Para aspirantes a incorporarse al GORA.
  - Equipos necesarios - Técnicas de observación - Rotación en asteroides - Fotometría diferencial - Funcionamiento del GORA.
- Sábado 14 - 09:00 a 13:00 – 15:00 a 20:00 - Para todos los inscriptos.
- Domingo 15 – 09:00 a 13:00 - Para todos los inscriptos.
  - Trabajos para publicar – Vinculación de sesiones consecutivas – Reducción de la dispersión – Calibración de imágenes – Periodogramas – Selección de objetivos para 2020 – Nuevas metodologías y recursos a utilizar – Vinculación del GORA con otros grupos.

III WORKSHOP GORA - Tanti13,14y15/marzo/2020Inscriptos

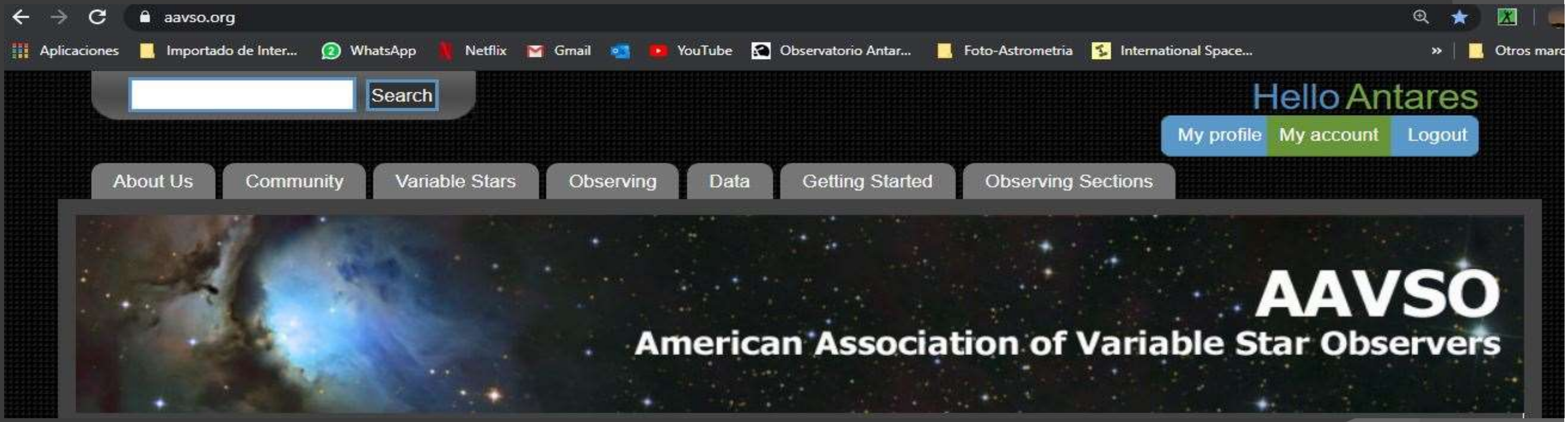
- Cesar Fornari, (Oro Verde)
  Erica Hasenauer, (Oro Verde)
  Jonás Alonso, (Oro Verde)
  Emanuel Devoto, (Paraná)
  Néstor Suarez, (Pilar-Bs.As.)
  Ricardo Llanos, (Santiago del Estero)
  Nicolás Vasconi, (Villa María)
  Carlos Colazo, (Tanti)
  Raúl Melia, (Carlos Paz)
  Nicolas Melia, (Carlos Paz)
  José García, (Cosquín)
  Guillermo Amilibia, (Córdob
- Guillermo Ferrero, (Córdoba)
  Marcos Anzola, (Córdoba)
  Elisa Rodríguez, (Córdoba)
  Milagros Colazo, (Córdoba)
  Marcos Santucho, (Córdoba)
  Matías Martini, (Córdoba)
  Luis Rearte, (Córdoba)
  Eduardo Pulver, (Rosario) VC
  Ariel Stechina, (Reconquista) VC
  Andrés Chapman, (BAires) VC
  Damián Scotta, (San Carlos Centro) VC
  Sergio Babino, (Montevideo) VC

Estrellas Variables

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS
A
A
V
S
O
FOUNDED
1911
Member
2018

AAVSO

- American Association of Variable Star Observers
- https://www.aavso.org/


aavso.org
Aplicaciones
Importado de Inter...
WhatsApp
Netflix
Gmail
YouTube
Observatorio Antar...
Foto-Astrometria
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Community
Variable Stars
Observing
Data
Getting Started
Observing Sections
AAVSO
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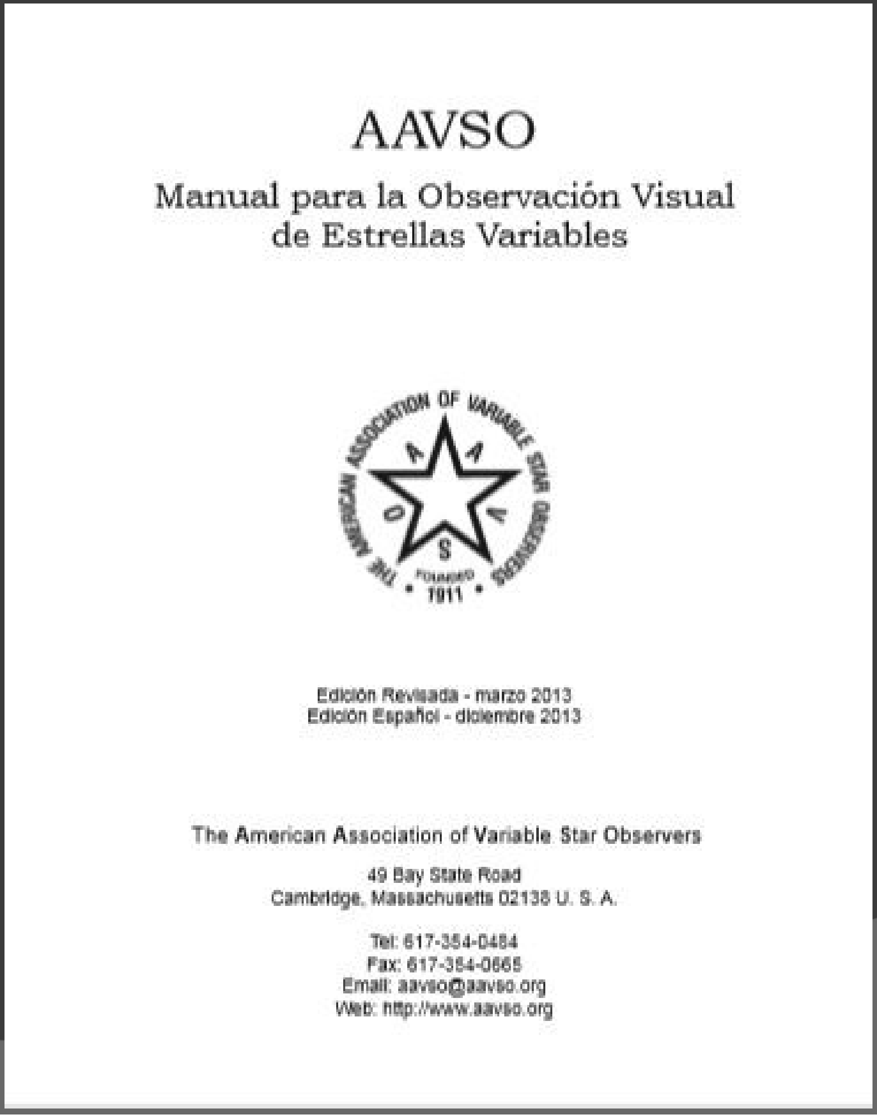
Manual AAVSO Castellano



AAVSO

Manual para la Observación Visual
de Estrellas Variables

Edición Revisada - marzo 2013
Edición Español - diciembre 2013

The American Association of Variable Star Observers

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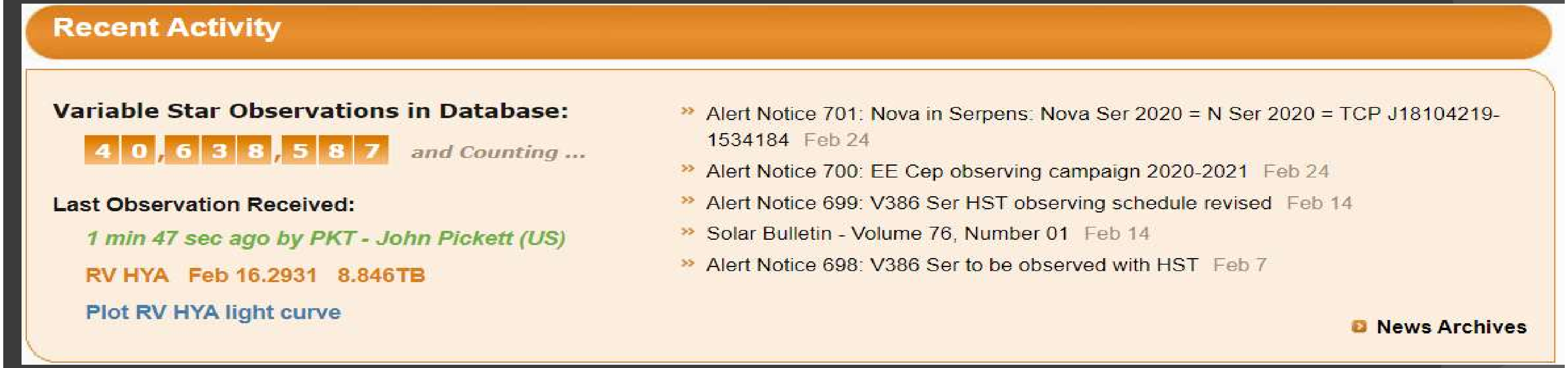
Cambridge, Massachusetts 02138 U. S. A.

Tel: 617-354-0484
Fax: 617-354-0665
Email: aavso@aavso.org
Web: http://www.aavso.org

Alert Notice



Recent Activity

Variable Star Observations in Database:

40,638,587 *and Counting ...*

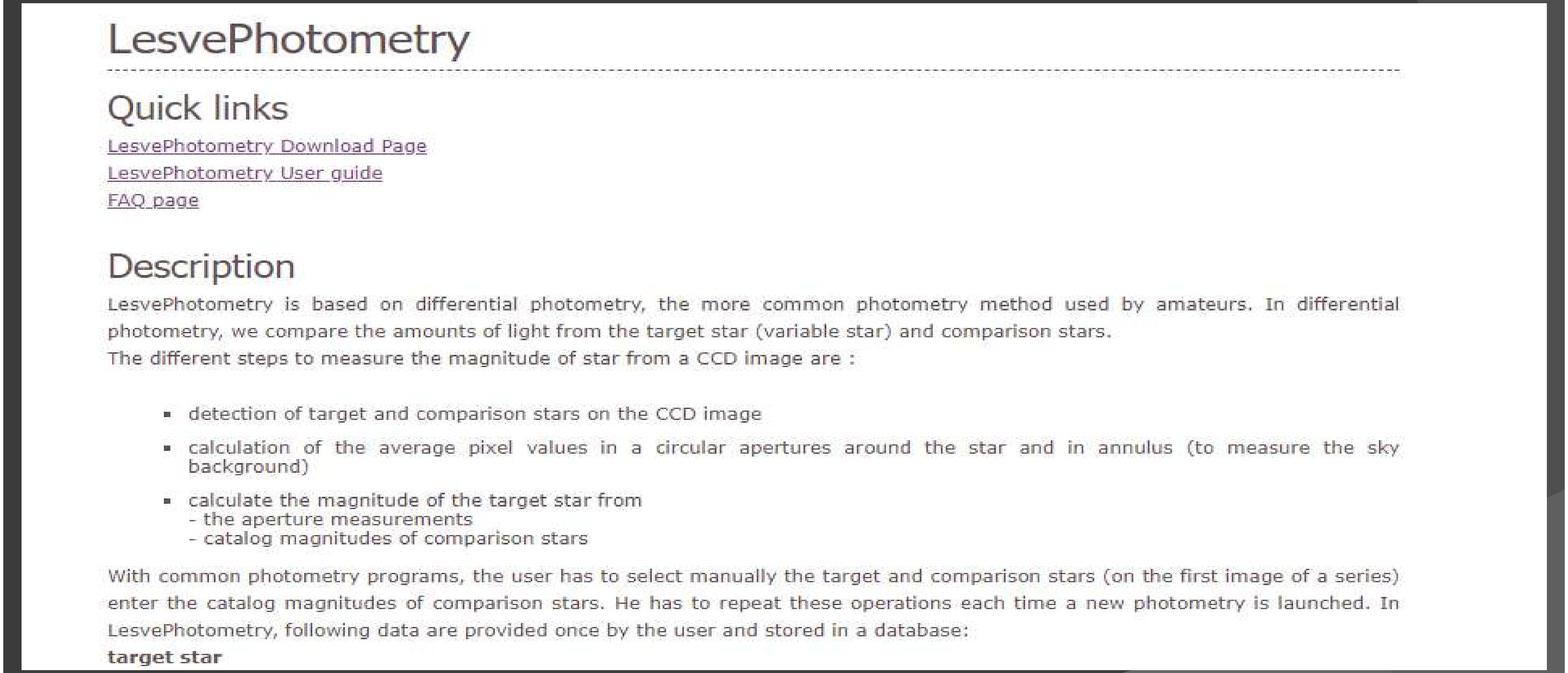
Last Observation Received:

1 min 47 sec ago by PKT - John Pickett (US)

RV HYA Feb 16.2931 8.846TB

Plot RV HYA light curve

- Alert Notice 701: Nova in Serpens: Nova Ser 2020 = N Ser 2020 = TCP J18104219-1534184 Feb 24
- Alert Notice 700: EE Cep observing campaign 2020-2021 Feb 24
- Alert Notice 699: V386 Ser HST observing schedule revised Feb 14
- Solar Bulletin - Volume 76, Number 01 Feb 14
- Alert Notice 698: V386 Ser to be observed with HST Feb 7



LesvePhotometry

Quick links

LesvePhotometry Download Page
LesvePhotometry User guide
FAQ page

Description

LesvePhotometry is based on differential photometry, the more common photometry method used by amateurs. In differential photometry, we compare the amounts of light from the target star (variable star) and comparison stars.
The different steps to measure the magnitude of star from a CCD image are :

- detection of target and comparison stars on the CCD image
- calculation of the average pixel values in a circular apertures around the star and in annulus (to measure the sky background)
- calculate the magnitude of the target star from
  - the aperture measurements
  - catalog magnitudes of comparison stars

With common photometry programs, the user has to select manually the target and comparison stars (on the first image of a series) enter the catalog magnitudes of comparison stars. He has to repeat these operations each time a new photometry is launched. In LesvePhotometry, following data are provided once by the user and stored in a database:

target star

Programas-Software

- Software Programs for Variable Star Observers
- DPP Observatory
- http://www.dppobservatory.net/AstroPrograms/Software4VSObservers.php
- LesvePhotometry - Download page
- http://www.dppobservatory.net/AstroPrograms/LesvePhotometryDownloadPage.php

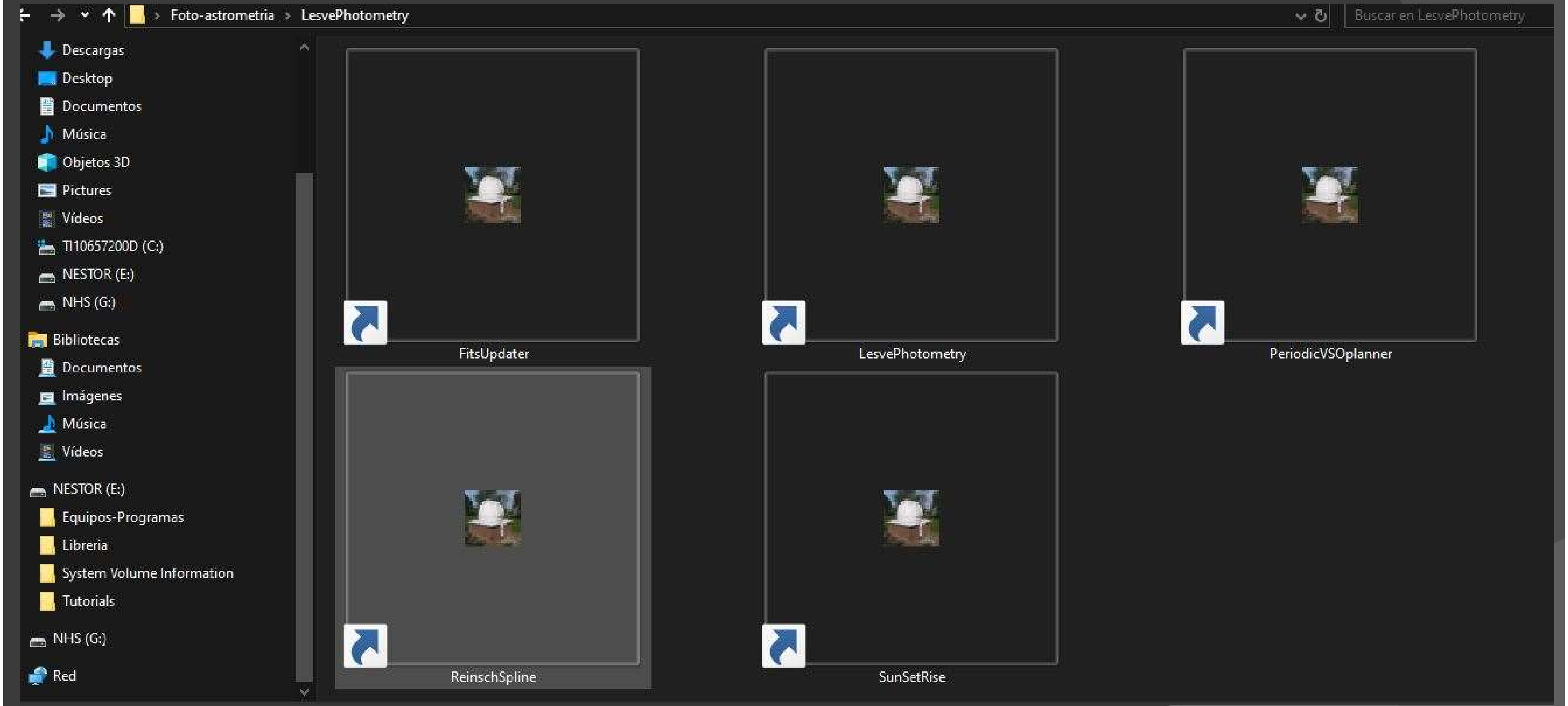
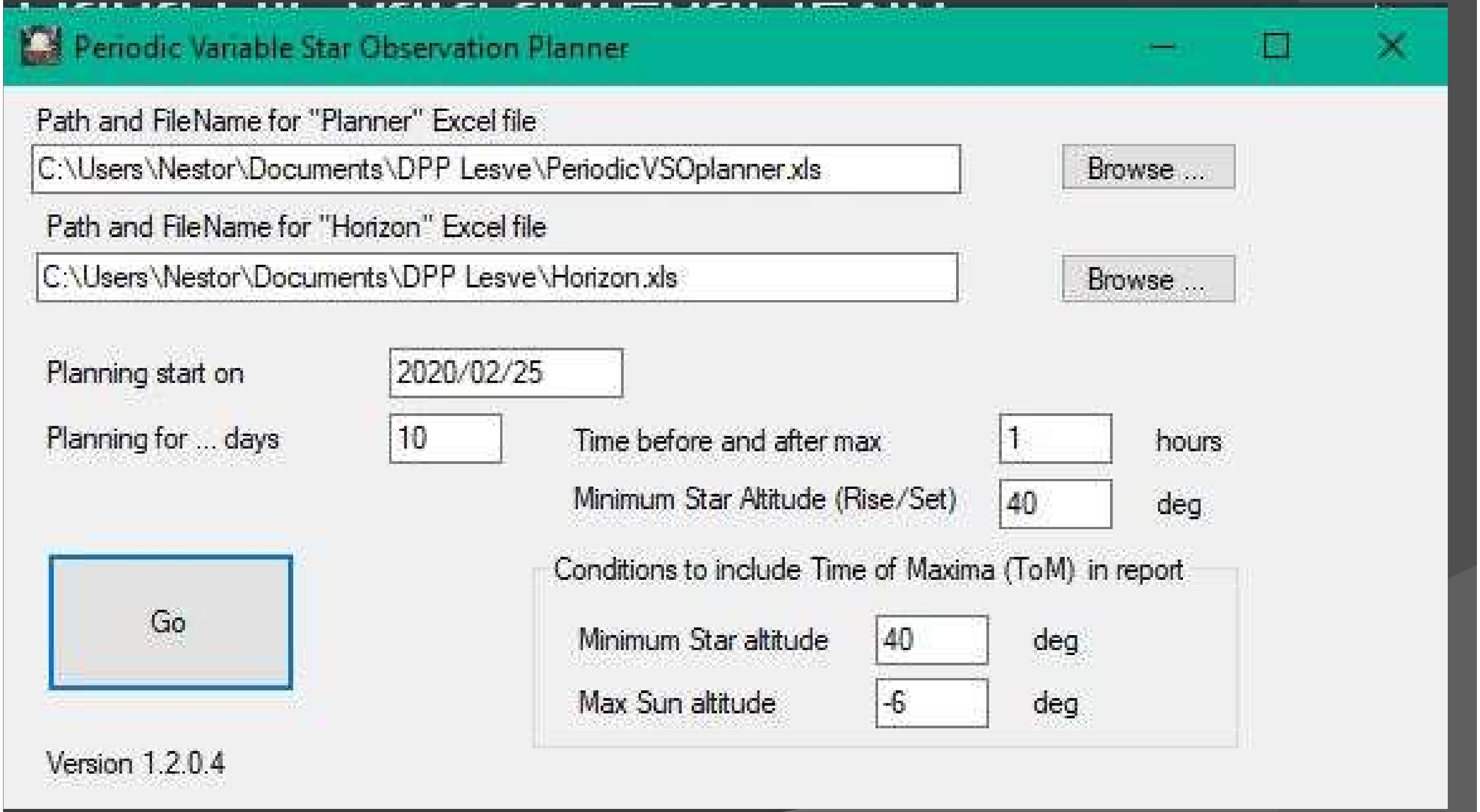


Foto-astrometria
LesvePhotometry
Buscar en LesvePhotometry
Descargas
Desktop
Documentos
Música
Objetos 3D
Pictures
Vídeos
TI10657200D (C:)
NESTOR (E:)
NHS (G:)
Bibliotecas
Documentos
Imágenes
Música
Vídeos
NESTOR (E:)
Equipos-Programas
Libreria
System Volume Information
Tutorials
NHS (G:)
Red
FitsUpdater
LesvePhotometry
PeriodicVSOplanner
ReinschSpline
SunSetRise

Periodic VSO Planner


Periodic Variable Star Observation Planner
Browse ...
Browse ...
Go

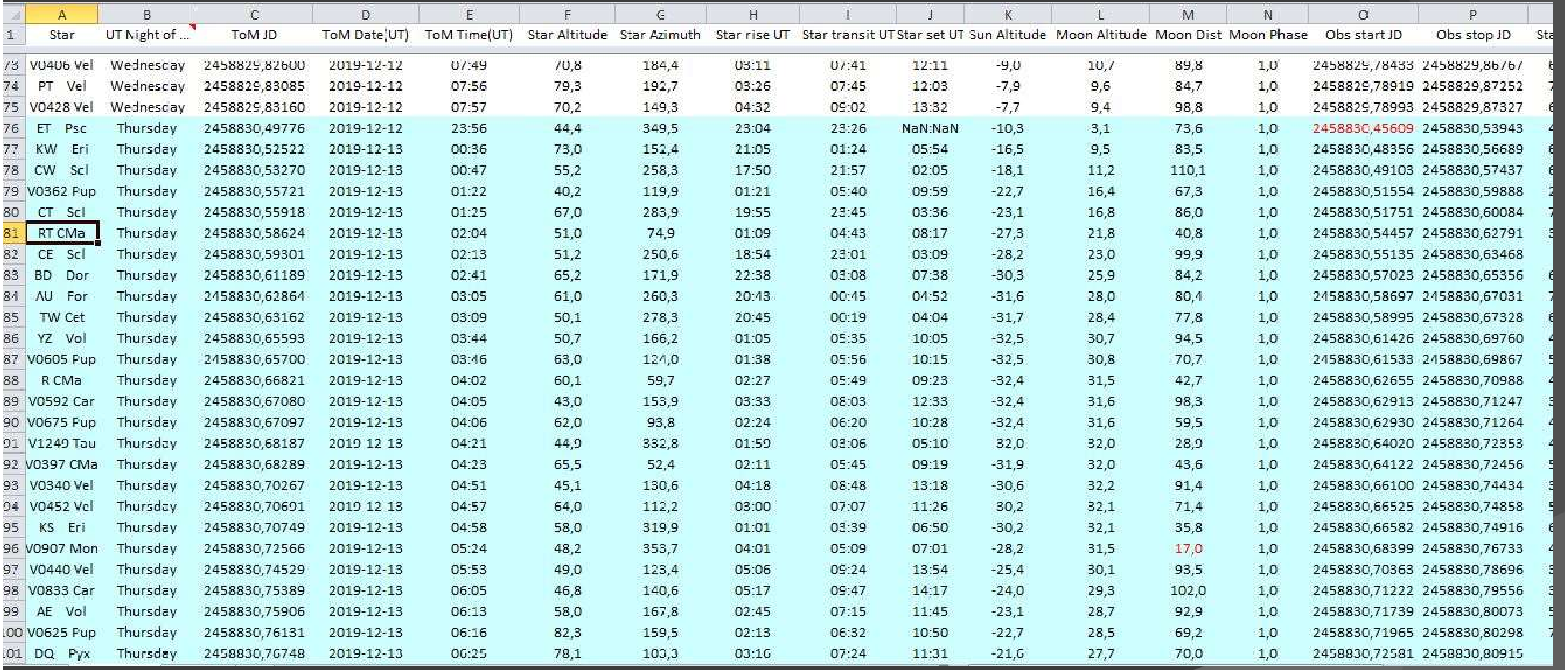
Path and FileName for "Planner" Excel file
C:\Users\Nestor\Documents\DPP Lesve\PeriodicVSOplanner.xls

Path and FileName for "Horizon" Excel file
C:\Users\Nestor\Documents\DPP Lesve\Horizon.xls

Planning start on 2020/02/25
Planning for ... days 10
Time before and after max 1 hours
Minimum Star Altitude (Rise/Set) 40 deg

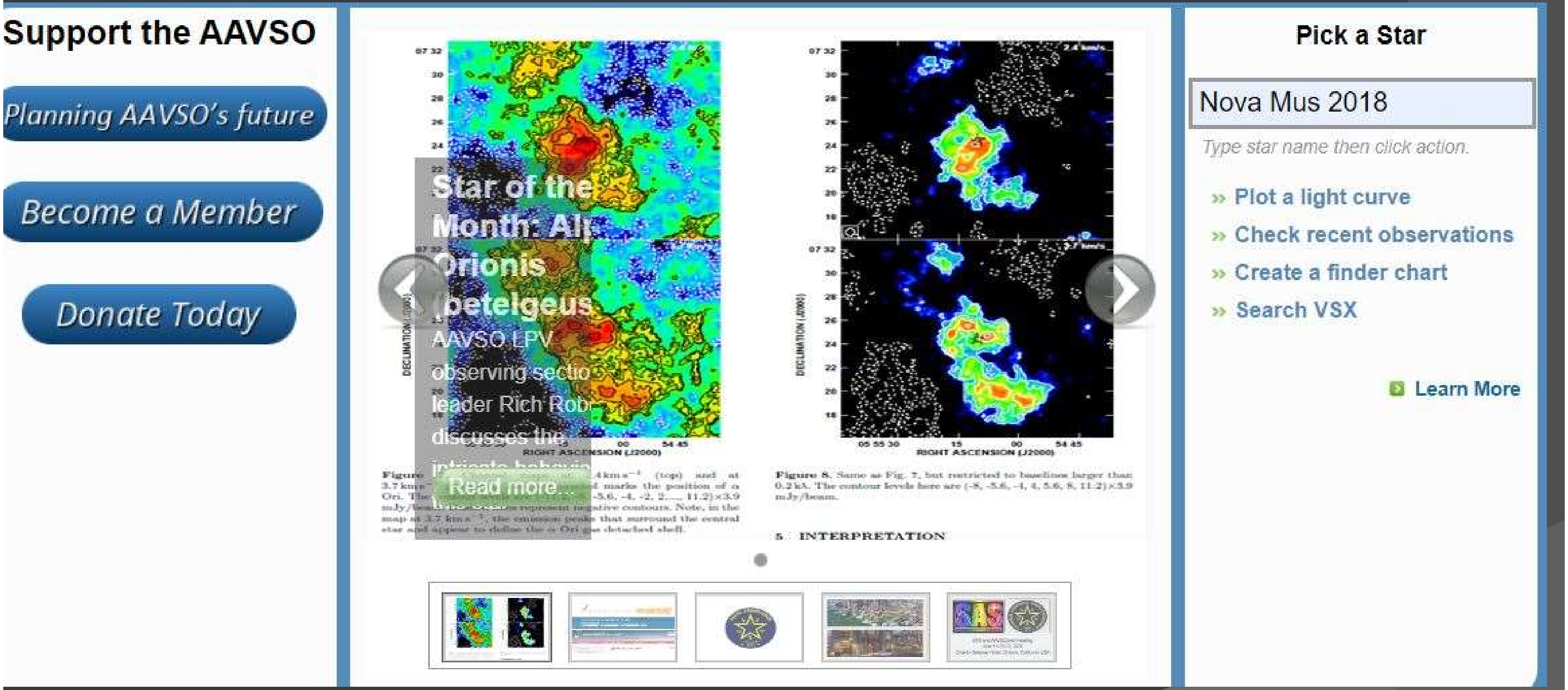
Conditions to include Time of Maxima (ToM) in report
Minimum Star altitude 40 deg
Max Sun altitude -6 deg

Version 1.2.0.4



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Star	UT Night of ...	ToM JD	ToM Date(UT)	ToM Time(UT)	Star Altitude	Star Azimuth	Star rise UT	Star transit UT	Star set UT	Sun Altitude	Moon Altitude	Moon Dist	Moon Phase	Obs start JD	Obs stop JD
73	V0406 Vel	Wednesday	2458829,82600	2019-12-12	07:49	70,8	184,4	03:11	07:41	12:11	-9,0	10,7	89,8	1,0	2458829,78433	2458829,86767
74	PT Vel	Wednesday	2458829,83085	2019-12-12	07:56	79,3	192,7	03:26	07:45	12:03	-7,9	9,6	84,7	1,0	2458829,78919	2458829,87252
75	V0428 Vel	Wednesday	2458829,83160	2019-12-12	07:57	70,2	149,3	04:32	09:02	13:32	-7,7	9,4	98,8	1,0	2458829,78993	2458829,87327
76	ET Psc	Thursday	2458830,49776	2019-12-12	23:56	44,4	349,5	23:04	23:26	NaN:NaN	-10,3	3,1	73,6	1,0	2458830,45609	2458830,53943
77	KW Eri	Thursday	2458830,52522	2019-12-13	00:36	73,0	152,4	21:05	01:24	05:54	-16,5	9,5	83,5	1,0	2458830,48356	2458830,56689
78	CW Scl	Thursday	2458830,53270	2019-12-13	00:47	55,2	258,3	17:50	21:57	02:05	-18,1	11,2	110,1	1,0	2458830,49103	2458830,57437
79	V0362 Pup	Thursday	2458830,55721	2019-12-13	01:22	40,2	119,9	01:21	05:40	09:59	-22,7	16,4	67,3	1,0	2458830,51554	2458830,59888
80	CT Scl	Thursday	2458830,55918	2019-12-13	01:25	67,0	283,9	19:55	23:45	03:36	-23,1	16,8	86,0	1,0	2458830,51751	2458830,60084
81	RT CMa	Thursday	2458830,58624	2019-12-13	02:04	51,0	74,9	01:09	04:43	08:17	-27,3	21,8	40,8	1,0	2458830,54457	2458830,62791
82	CE Scl	Thursday	2458830,59301	2019-12-13	02:13	51,2	250,6	18:54	23:01	03:09	-28,2	23,0	99,9	1,0	2458830,55135	2458830,63468
83	BD Dor	Thursday	2458830,61189	2019-12-13	02:41	65,2	171,9	22:38	03:08	07:38	-30,3	25,9	84,2	1,0	2458830,57023	2458830,65356
84	AU For	Thursday	2458830,62864	2019-12-13	03:05	61,0	260,3	20:43	00:45	04:52	-31,6	28,0	80,4	1,0	2458830,58697	2458830,67031
85	TW Cet	Thursday	2458830,63162	2019-12-13	03:09	50,1	278,3	20:45	00:19	04:04	-31,7	28,4	77,8	1,0	2458830,58995	2458830,67328
86	YZ Vol	Thursday	2458830,65593	2019-12-13	03:44	50,7	166,2	01:05	05:35	10:05	-32,5	30,7	94,5	1,0	2458830,61426	2458830,69760
87	V0605 Pup	Thursday	2458830,65700	2019-12-13	03:46	63,0	124,0	01:38	05:56	10:15	-32,5	30,8	70,7	1,0	2458830,61533	2458830,69867
88	R CMa	Thursday	2458830,66821	2019-12-13	04:02	60,1	59,7	02:27	05:49	09:23	-32,4	31,5	42,7	1,0	2458830,62655	2458830,70988
89	V0592 Car	Thursday	2458830,67080	2019-12-13	04:05	43,0	153,9	03:33	08:03	12:33	-32,4	31,6	98,3	1,0	2458830,62913	2458830,71247
90	V0675 Pup	Thursday	2458830,67097	2019-12-13	04:06	62,0	93,8	02:24	06:20	10:28	-32,4	31,6	59,5	1,0	2458830,62930	2458830,71264
91	V1249 Tau	Thursday	2458830,68187	2019-12-13	04:21	44,9	332,8	01:59	03:06	05:10	-32,0	32,0	28,9	1,0	2458830,64020	2458830,72353
92	V0397 CMa	Thursday	2458830,68289	2019-12-13	04:23	65,5	52,4	02:11	05:45	09:19	-31,9	32,0	43,6	1,0	2458830,64122	2458830,72456
93	V0340 Vel	Thursday	2458830,70267	2019-12-13	04:51	45,1	130,6	04:18	08:48	13:18	-30,6	32,2	91,4	1,0	2458830,66100	2458830,74434
94	V0452 Vel	Thursday	2458830,70691	2019-12-13	04:57	64,0	112,2	03:00	07:07	11:26	-30,2	32,1	71,4	1,0	2458830,66525	2458830,74858
95	KS Eri	Thursday	2458830,70749	2019-12-13	04:58	58,0	319,9	01:01	03:39	06:50	-30,2	32,1	35,8	1,0	2458830,66582	2458830,74916
96	V0907 Mon	Thursday	2458830,72566	2019-12-13	05:24	48,2	353,7	04:01	05:09	07:01	-28,2	31,5	17,0	1,0	2458830,68399	2458830,76733
97	V0440 Vel	Thursday	2458830,74529	2019-12-13	05:53	49,0	123,4	05:06	09:24	13:54	-25,4	30,1	93,5	1,0	2458830,70363	2458830,78696
98	V0833 Car	Thursday	2458830,75389	2019-12-13	06:05	46,8	140,6	05:17	09:47	14:17	-24,0	29,3	102,0	1,0	2458830,71222	2458830,79556
99	AE Vol	Thursday	2458830,75906	2019-12-13	06:13	58,0	167,8	02:45	07:15	11:45	-23,1	28,7	92,9	1,0	2458830,71739	2458830,80073
00	V0625 Pup	Thursday	2458830,76131	2019-12-13	06:16	82,3	159,5	02:13	06:32	10:50	-22,7	28,5	69,2	1,0	2458830,71965	2458830,80298
01	DQ Pyx	Thursday	2458830,76748	2019-12-13	06:25	78,1	103,3	03:16	07:24	11:31	-21,6	27,7	70,0	1,0	2458830,72581	2458830,80915

Pick a star



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Star of the Month: Al
Orionis
(betelgeus
AAVSO LPV
observing sectio
leader Rich Rob
discusses the
intricate behavio
the star

Read more...
RIGHT ASCENSION (J2000)
DECLINATION (J2000)
5. INTERPRETATION

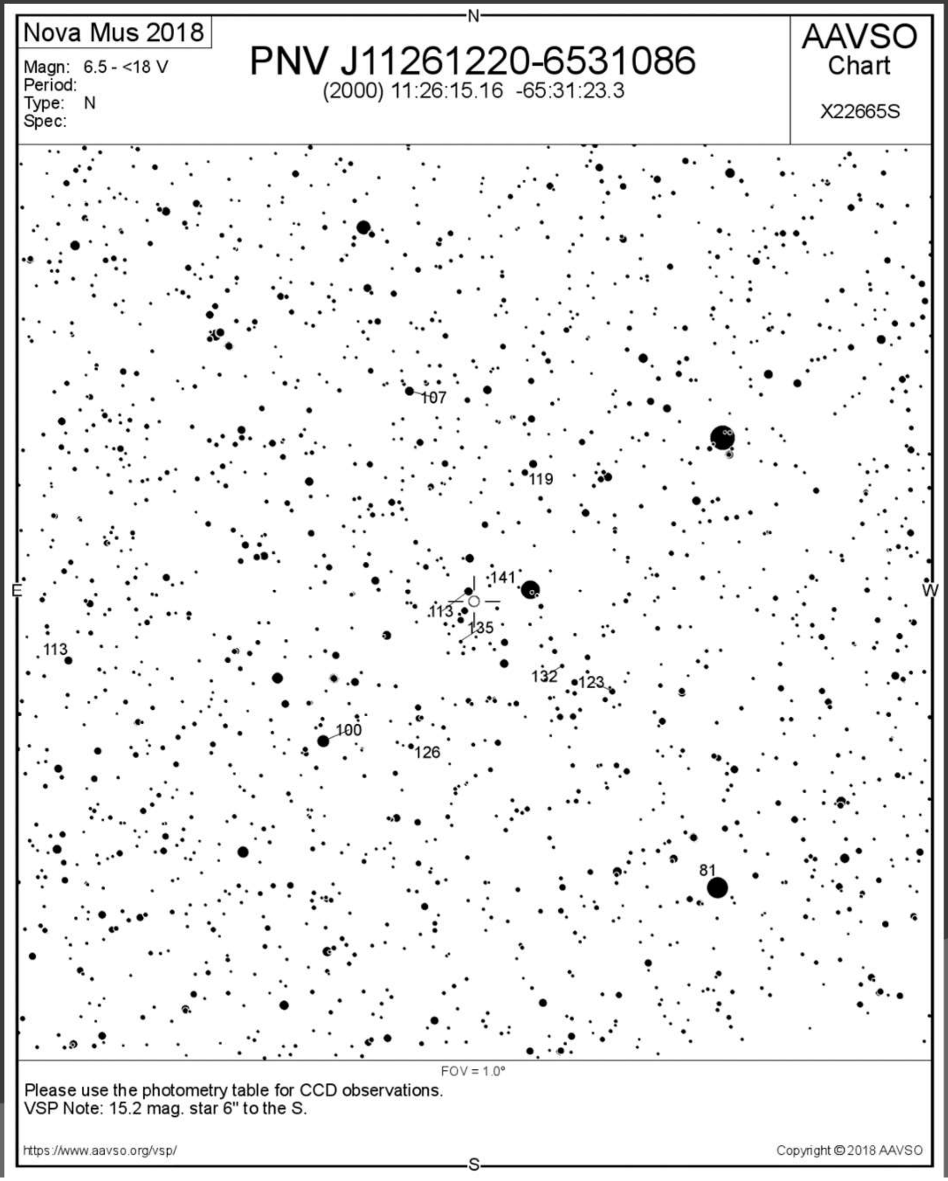
Pick a Star

Nova Mus 2018

Type star name then click action.

» Plot a light curve
» Check recent observations
» Create a finder chart
» Search VSX
Learn More

Variable Star Plotter



Nova Mus 2018

Magn: 6.5 - <18 V
Period:
Type: N
Spec:

PNV J11261220-6531086

(2000) 11:26:15.16 -65:31:23.3

AAVSO Chart

X22665S

FOV = 1.0°

Please use the photometry table for CCD observations.
VSP Note: 15.2 mag. star 6" to the S.

https://www.aavso.org/vsp/

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N
E
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107
119
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132
123
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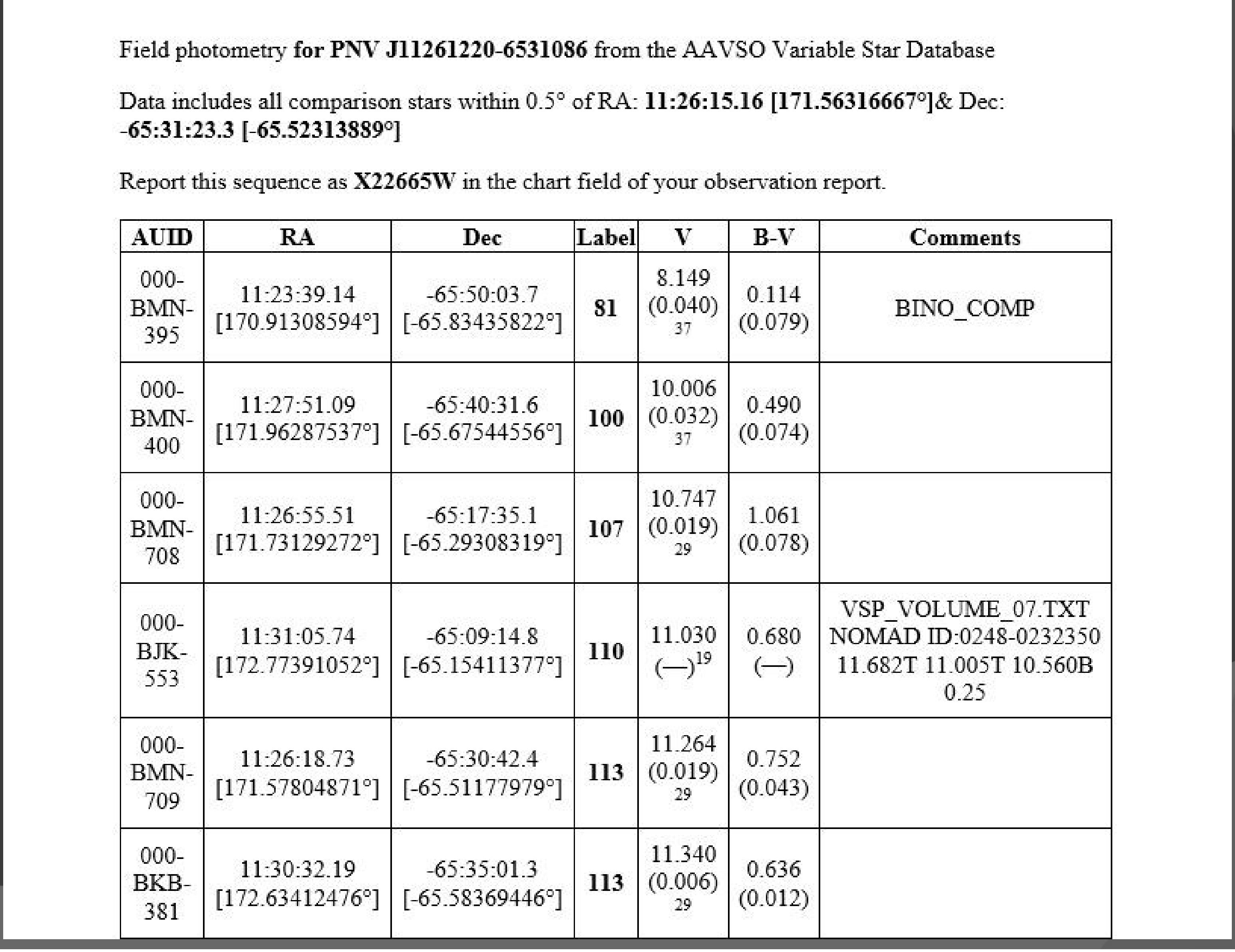
126
81

Field Photometry



Field photometry **for PNV J11261220-6531086** from the AAVSO Variable Star Database

Data includes all comparison stars within 0.5° of RA: **11:26:15.16 [171.56316667°]**& Dec: **-65:31:23.3 [-65.52313889°]**

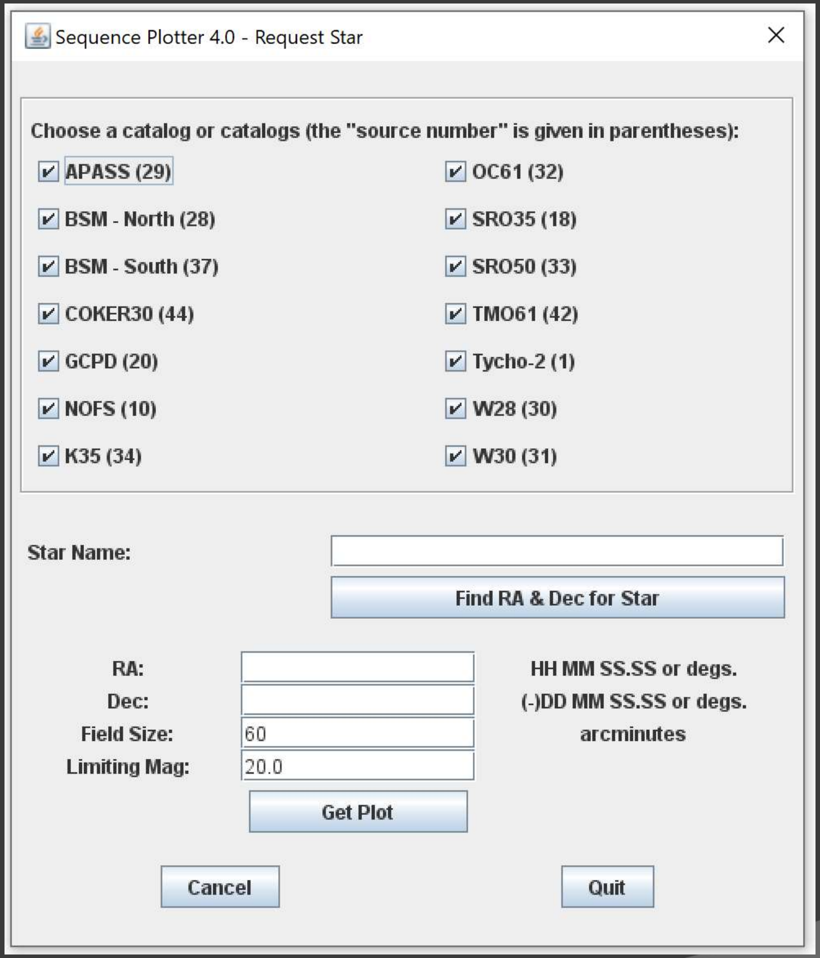
Report this sequence as **X22665W** in the chart field of your observation report.

AUID	RA	Dec	Label	V	B-V	Comments
000-BMN-395	11:23:39.14 [170.91308594°]	-65:50:03.7 [-65.83435822°]	**81**	8.149 (0.040) 37	0.114 (0.079)	BINO_COMP
000-BMN-400	11:27:51.09 [171.96287537°]	-65:40:31.6 [-65.67544556°]	**100**	10.006 (0.032) 37	0.490 (0.074)	
000-BMN-708	11:26:55.51 [171.73129272°]	-65:17:35.1 [-65.29308319°]	**107**	10.747 (0.019) 29	1.061 (0.078)	
000-BJK-553	11:31:05.74 [172.77391052°]	-65:09:14.8 [-65.15411377°]	**110**	11.030 (—)^{19}	0.680 (—)	VSP_VOLUME_07.TXT NOMAD ID:0248-0232350 11.682T 11.005T 10.560B 0.25
000-BMN-709	11:26:18.73 [171.57804871°]	-65:30:42.4 [-65.51177979°]	**113**	11.264 (0.019) 29	0.752 (0.043)	
000-BKB-381	11:30:32.19 [172.63412476°]	-65:35:01.3 [-65.58369446°]	**113**	11.340 (0.006) 29	0.636 (0.012)	

Proceso de SeqPlot

- Cuando no tenemos un ploteo de la zona a capturar podemos usar SeqPlot
- Provisto por AAVSO, nos permite consultar diversos catálogos al mismo tiempo
- Luego presenta una carta (chart) con información de fotometría de las estrellas en ese campo

SeqPlot
Pantalla inicial



Sequence Plotter 4.0 - Request Star

Choose a catalog or catalogs (the "source number" is given in parentheses):

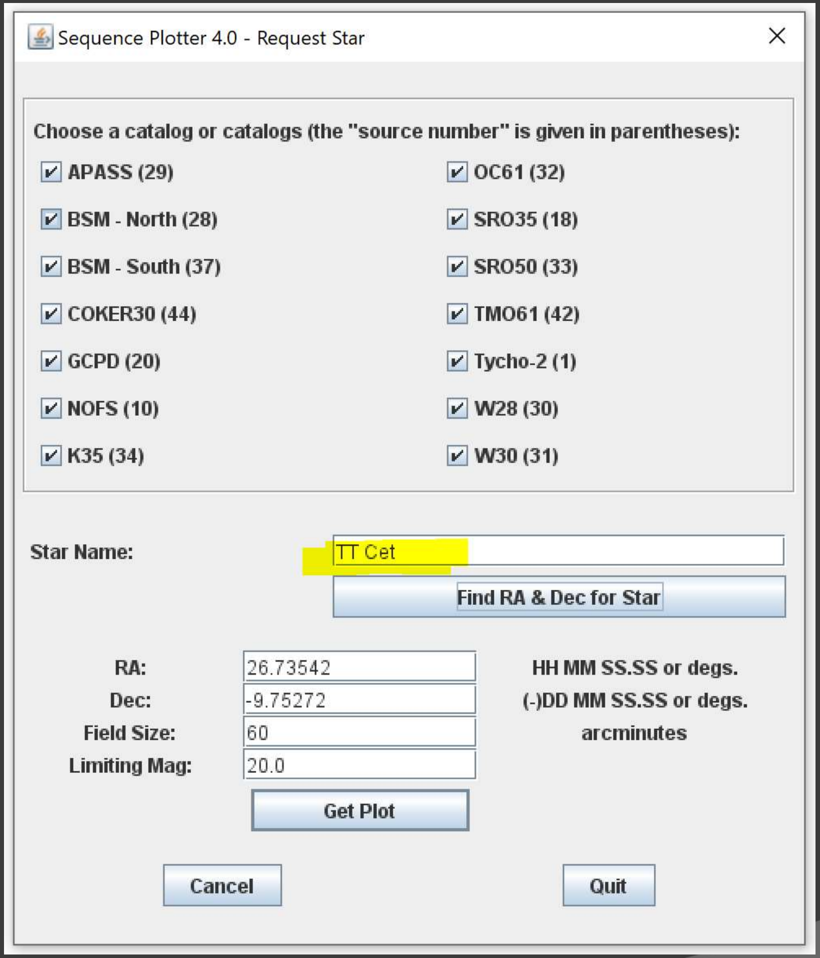
☑ APASS (29)
☑ BSM - North (28)
☑ BSM - South (37)
☑ COKER30 (44)
☑ GCPD (20)
☑ NOFS (10)
☑ K35 (34)
☑ OC61 (32)
☑ SRO35 (18)
☑ SRO50 (33)
☑ TMO61 (42)
☑ Tycho-2 (1)
☑ W28 (30)
☑ W30 (31)

Star Name:

RA: HH MM SS.SS or degs.
Dec: (-)DD MM SS.SS or degs.
Field Size: 60 arcminutes
Limiting Mag: 20.0

Find RA & Dec for Star
Get Plot
Cancel
Quit

SeqPlot:
Búsqueda del objetivo

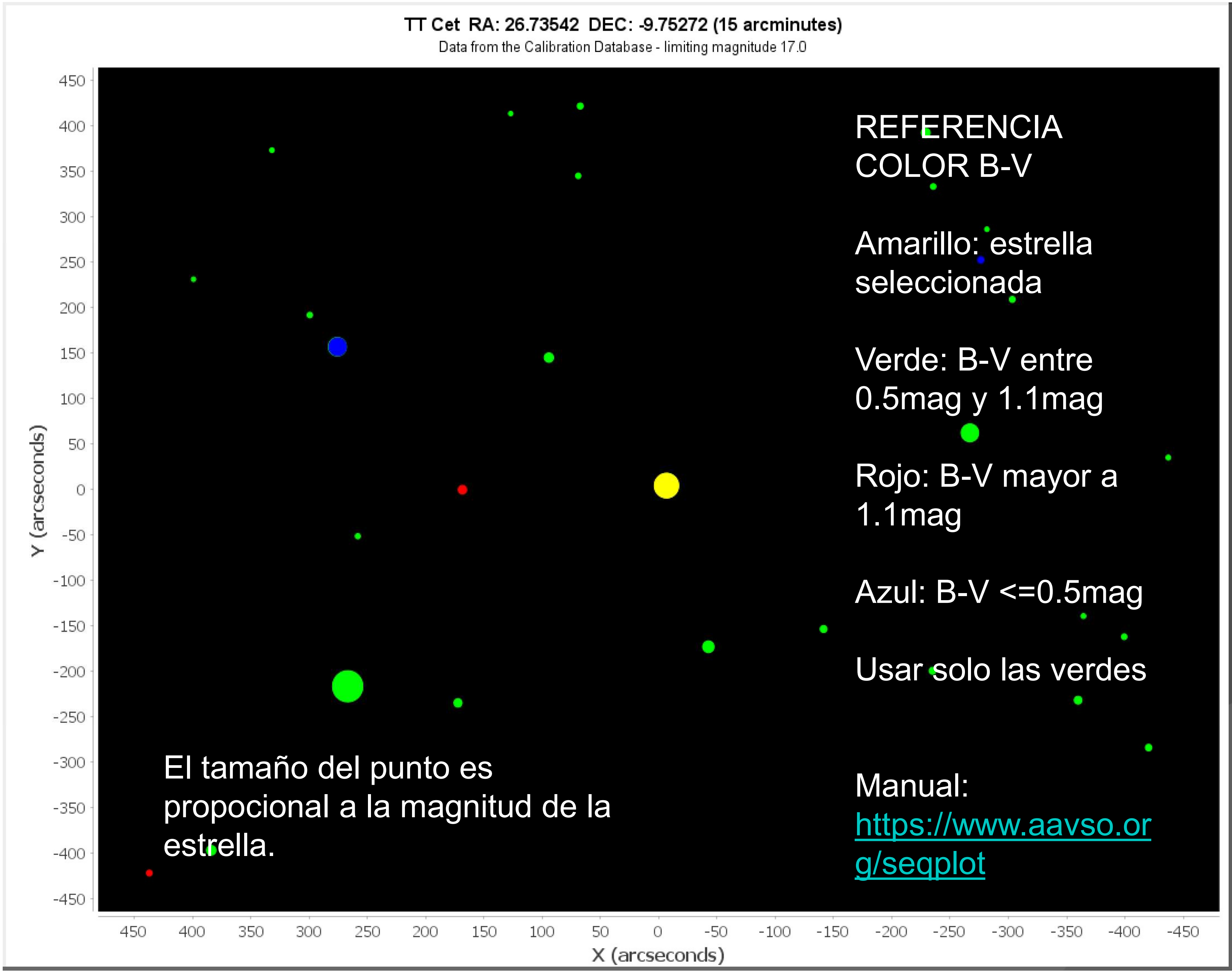

Sequence Plotter 4.0 - Request Star
Find RA & Dec for Star
Get Plot
Cancel
Quit

Choose a catalog or catalogs (the "source number" is given in parentheses):

☑ APASS (29)
☑ BSM - North (28)
☑ BSM - South (37)
☑ COKER30 (44)
☑ GCPD (20)
☑ NOFS (10)
☑ K35 (34)
☑ OC61 (32)
☑ SRO35 (18)
☑ SRO50 (33)
☑ TMO61 (42)
☑ Tycho-2 (1)
☑ W28 (30)
☑ W30 (31)

Star Name: TT Cet

RA: 26.73542 HH MM SS.SS or degs.
Dec: -9.75272 (-)DD MM SS.SS or degs.
Field Size: 60 arcminutes
Limiting Mag: 20.0



REFERENCIA
COLOR B-V

Amarillo: estrella seleccionada

Verde: B-V entre 0.5mag y 1.1mag

Rojo: B-V mayor a 1.1mag

Azul: B-V <=0.5mag

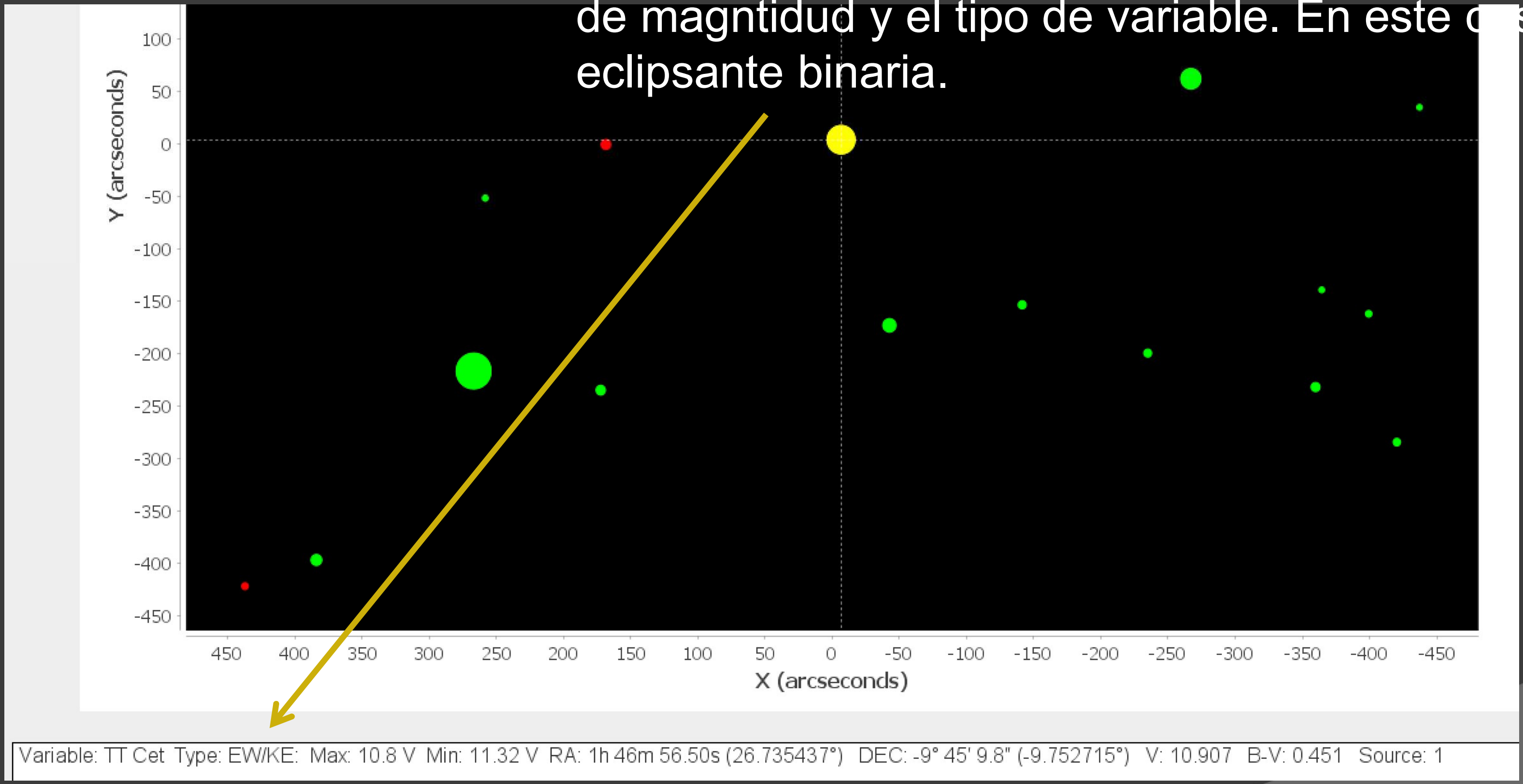
Usar solo las verdes

El tamaño del punto es propocional a la magnitud de la estrella.

Manual: https://www.aavso.org/seqplot

Referencia Estrella variable

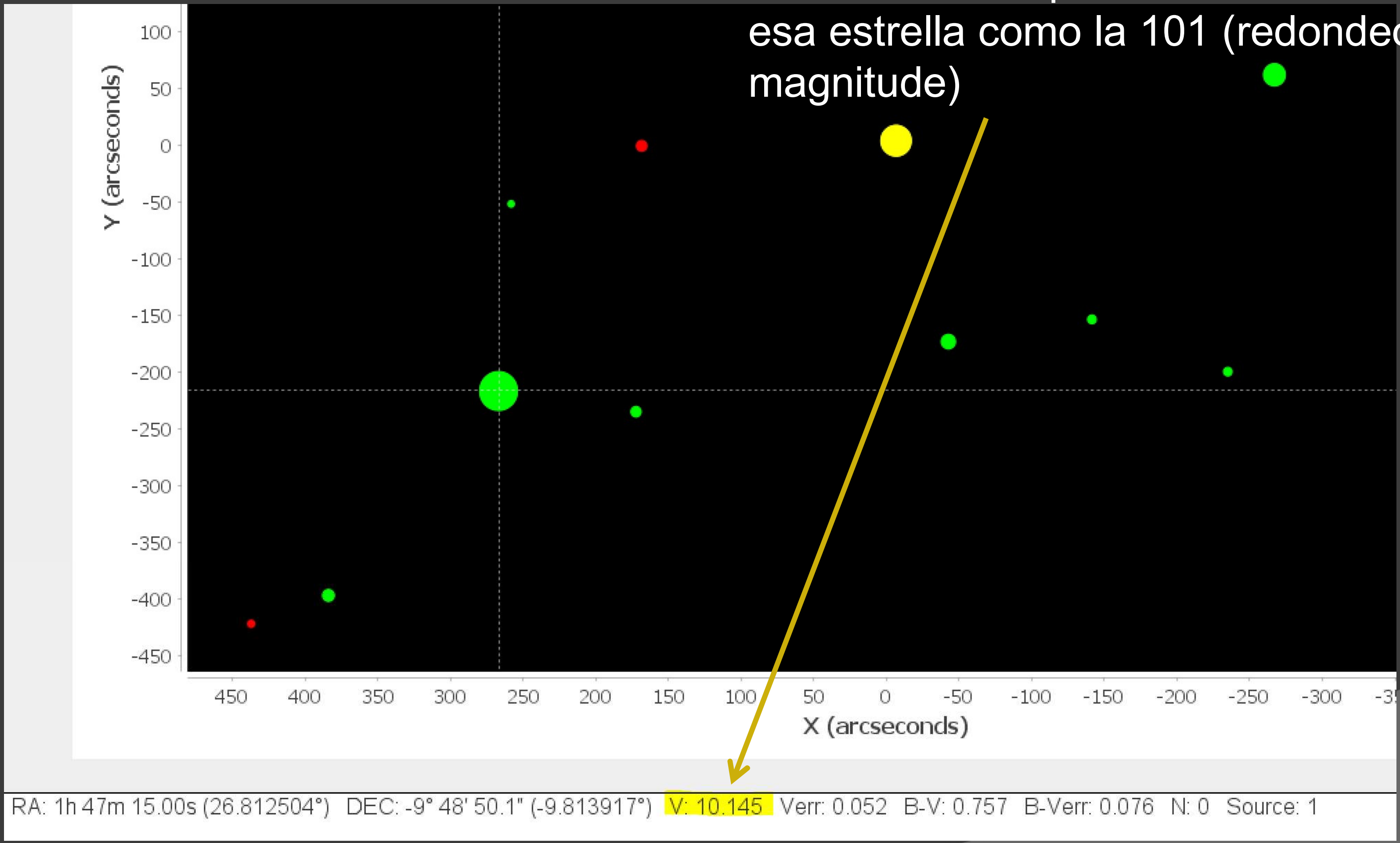
Cuando se selecciona la Estrella variable (amarilla) la información al pie indica valores máximos y mínimos de magntidud y el tipo de variable. En este caso una eclipsante binaria.


Y (arcseconds)
100
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
450
400
350
300
250
200
150
100
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
X (arcseconds)

Variable: TT Cet Type: EW/KE: Max: 10.8 V Min: 11.32 V RA: 1h 46m 56.50s (26.735437°) DEC: -9° 45' 9.8" (-9.752715°) V: 10.907 B-V: 0.451 Source: 1

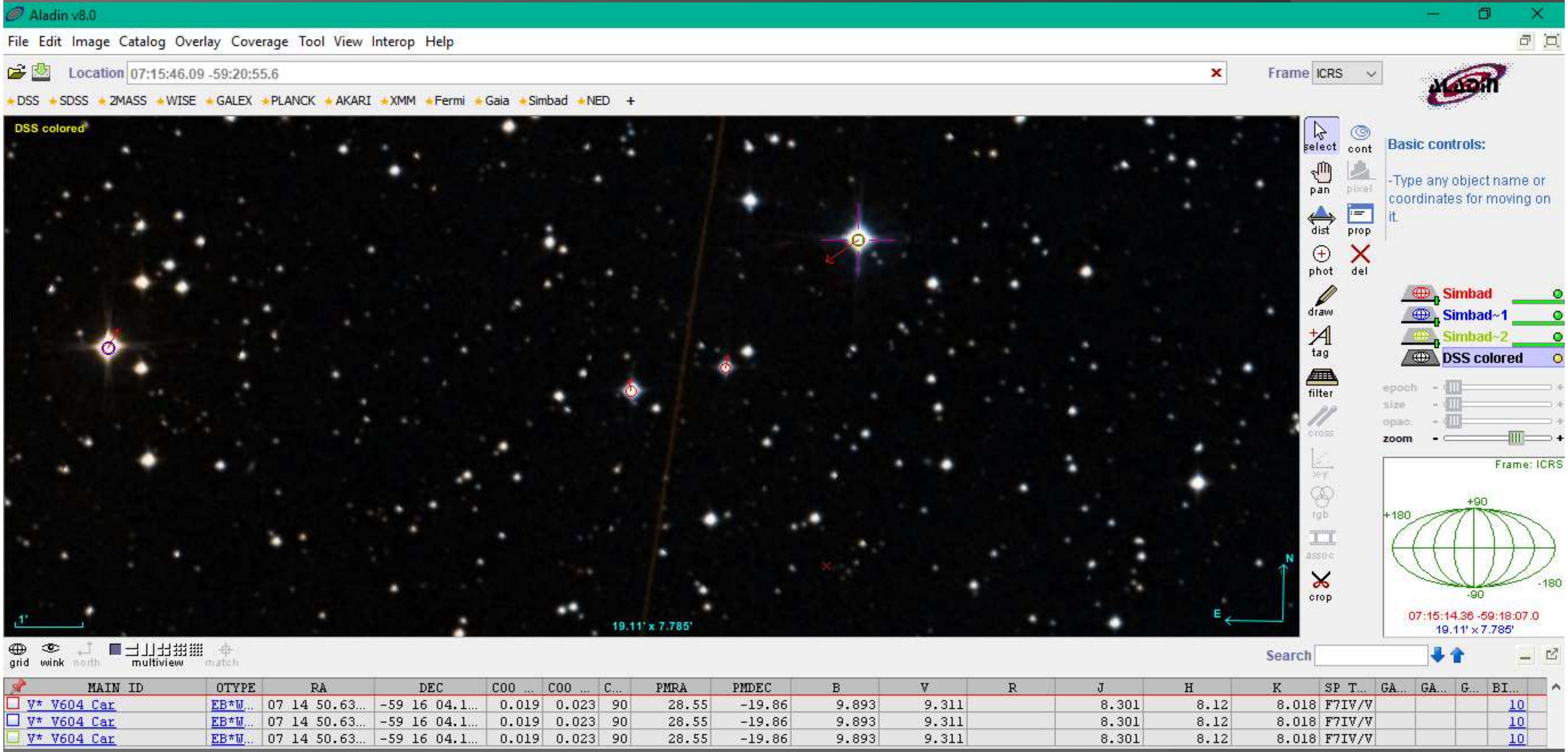
Información

Al hacer click sobre una Estrella verde se informan al pie los distintos valores para cada filtro. En este caso tomamos el V en 10.145. En el reporte nos referimemos a esa estrella como la 101 (redondeo de su magnitude)


Y (arcseconds)
100
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
450
400
350
300
250
200
150
100
50
0
-50
-100
-150
-200
-250
-300
X (arcseconds)

RA: 1h 47m 15.00s (26.812504°) DEC: -9° 48' 50.1" (-9.813917°) V: 10.145 Verr: 0.052 B-V: 0.757 B-Verr: 0.076 N: 0 Source: 1

Aladin-Simbad


Aladin v8.0
File Edit Image Catalog Overlay Coverage Tool View Interop Help
Frame ICRS
DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Gaia Simbad NED +
DSS colored
select cont pan pixel dist prop phot del draw tag filter cross xy rgb assoc crop
Simbad
Simbad~1
Simbad~2
DSS colored
epoch size opac. zoom
Frame: ICRS
+90 +180 -180 -90
1'
19.11' x 7.785'
N E
grid wink north multiview match
Search

Location 07:15:46.09 -59:20:55.6

Basic controls:

-Type any object name or coordinates for moving on it.

07:15:14.36 -59:18:07.0
19.11' x 7.785'

	MAIN ID	OTYPE	RA	DEC	COO ...	COO ...	C...	PMRA	PMDEC	B	V	R	J	H	K	SP T...	GA...	GA...	G...	BI...
☐	V* V604 Car	EB*W...	07 14 50.63...	-59 16 04.1...	0.019	0.023	90	28.55	-19.86	9.893	9.311		8.301	8.12	8.018	F7IV/V				10
☐	V* V604 Car	EB*W...	07 14 50.63...	-59 16 04.1...	0.019	0.023	90	28.55	-19.86	9.893	9.311		8.301	8.12	8.018	F7IV/V				10
☐	V* V604 Car	EB*W...	07 14 50.63...	-59 16 04.1...	0.019	0.023	90	28.55	-19.86	9.893	9.311		8.301	8.12	8.018	F7IV/V				10

Filtros Johnson-Cousins

Banda central efectiva en nm

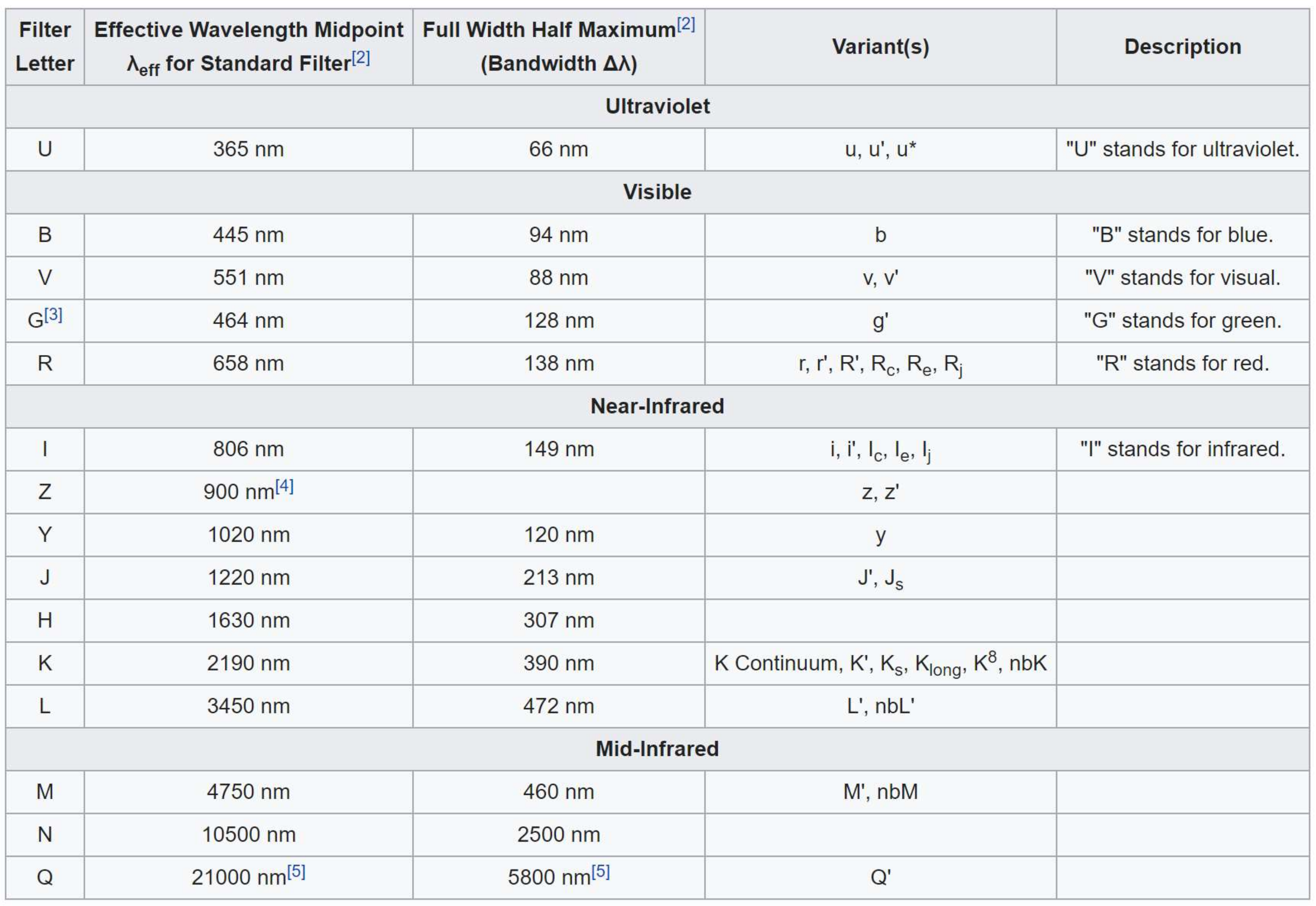
- U: 365.6nm (“ultravioleta”)
- B: 435.3nm (“azul”)
- V: 547.7nm (“visual”)
- R: 634.9nm (“rojo”)
- I: 879.7nm (“infrarojo”)

Filtros Sloan

Banda central efectiva en nm

- u': 358.0nm (ultravioleta)
- g': 475.4nm (verde)
- r': 620.4nm (rojo)
- i’: 769.8nm (infrarojo)
- z': 966.5nm (infrarojo)

https://en.wikipedia.org/wiki/Photometric_system



Filter Letter	Effective Wavelength Midpoint λ_{eff} for Standard Filter[2]	Full Width Half Maximum[2] (Bandwidth $\Delta\lambda$)	Variant(s)	Description
Ultraviolet				
U	365 nm	66 nm	u, u', u*	"U" stands for ultraviolet.
Visible				
B	445 nm	94 nm	b	"B" stands for blue.
V	551 nm	88 nm	v, v'	"V" stands for visual.
G[3]	464 nm	128 nm	g'	"G" stands for green.
R	658 nm	138 nm	r, r', R', R_c, R_e, R_j	"R" stands for red.
Near-Infrared				
I	806 nm	149 nm	i, i', I_c, I_e, I_j	"I" stands for infrared.
Z	900 nm[4]		z, z'	
Y	1020 nm	120 nm	y	
J	1220 nm	213 nm	J', J_s	
H	1630 nm	307 nm		
K	2190 nm	390 nm	K Continuum, K', K_s, K_{long}, K^8, nbK	
L	3450 nm	472 nm	L', nbL'	
Mid-Infrared				
M	4750 nm	460 nm	M', nbM	
N	10500 nm	2500 nm		
Q	21000 nm[5]	5800 nm[5]	Q'	

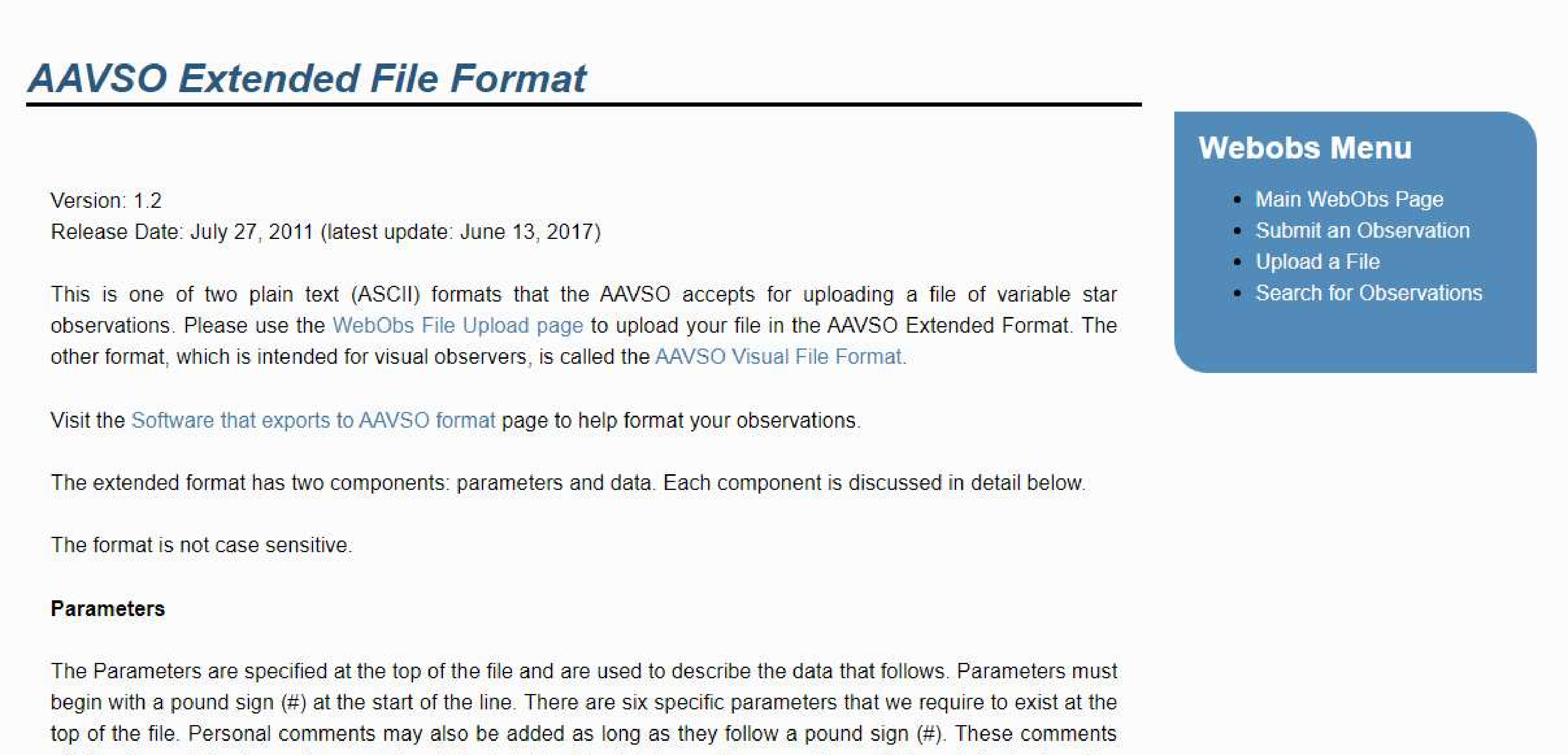
Fotometría diferencial

Una vez obtenidos los datos necesarios (nombre de la estrella y selección de Estrella de referencia y de control) se debe utilizar un software de fotometría diferencial tales como:

- Maxim DL ($600)
- Iris (gratis)
- Lesve Photometry (gratis)
- FotoDif (gratis)

Estos programas generan reportes fotométricos respetando algún standard, en nuestro caso el de AAVSO:

https://www.aavso.org/aavso-extended-file-format



AAVSO Extended File Format

Version: 1.2
Release Date: July 27, 2011 (latest update: June 13, 2017)

This is one of two plain text (ASCII) formats that the AAVSO accepts for uploading a file of variable star observations. Please use the WebObs File Upload page to upload your file in the AAVSO Extended Format. The other format, which is intended for visual observers, is called the AAVSO Visual File Format.

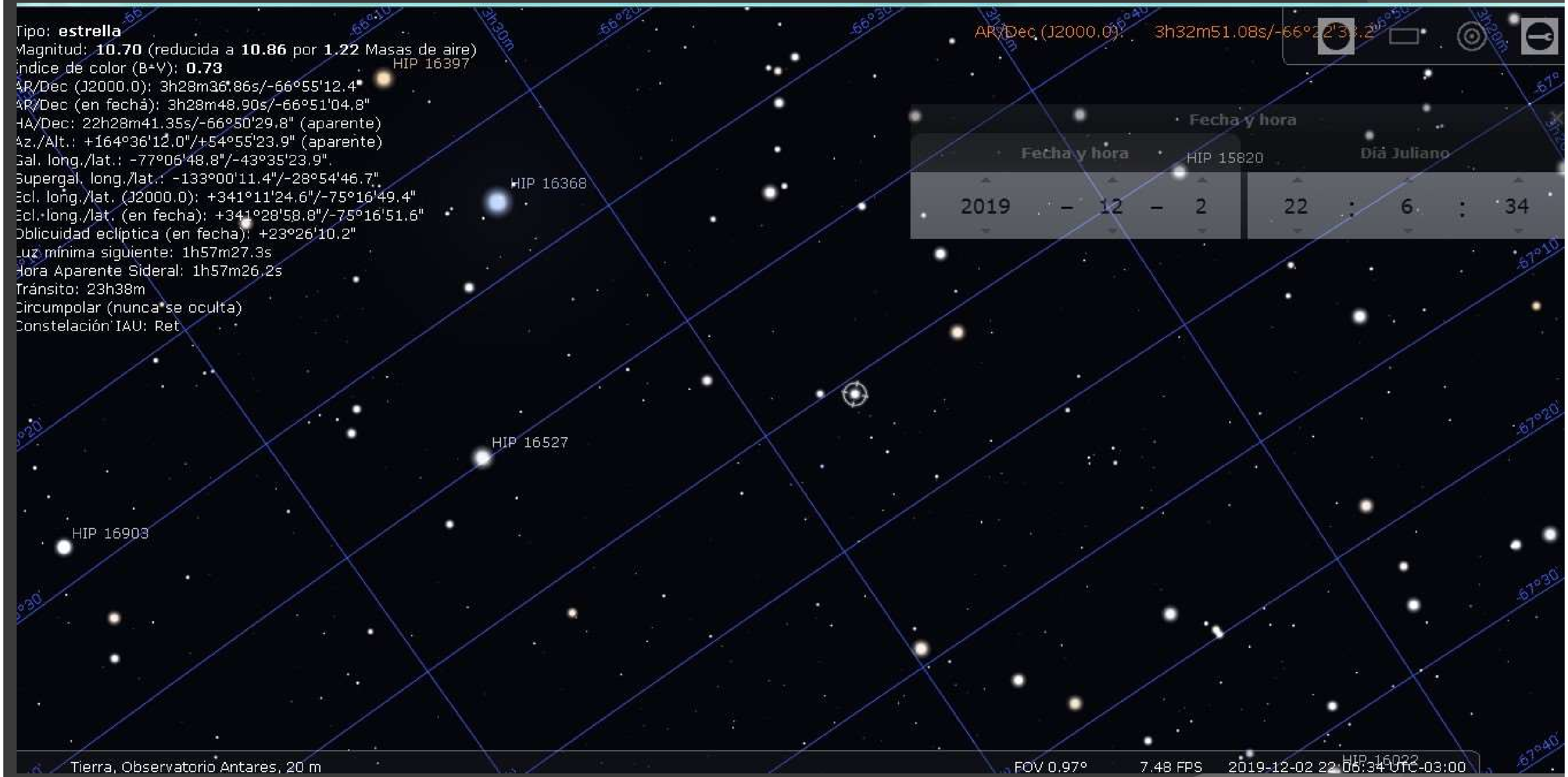
Visit the Software that exports to AAVSO format page to help format your observations.

The extended format has two components: parameters and data. Each component is discussed in detail below.

The format is not case sensitive.

Parameters

The Parameters are specified at the top of the file and are used to describe the data that follows. Parameters must begin with a pound sign (#) at the start of the line. There are six specific parameters that we require to exist at the top of the file. Personal comments may also be added as long as they follow a pound sign (#). These comments will be ignored by the software and not loaded into the database. However, they will be retained when the



Tipo: **estrella**
Magnitud: **10.70** (reducida a **10.86** por **1.22** Masas de aire)
Índice de color (B-V): **0.73**
AR/Dec (J2000.0): 3h28m36.86s/-66°55'12.4"
AR/Dec (en fecha): 3h28m48.90s/-66°51'04.8"
HA/Dec: 22h28m41.35s/-66°50'29.8" (aparente)
Az./Alt.: +164°36'12.0"/+54°55'23.9" (aparente)
Gal. long./lat.: -77°06'48.8"/-43°35'23.9"
Supergal. long./lat.: -133°00'11.4"/-28°54'46.7"
Ecl. long./lat. (J2000.0): +341°11'24.6"/-75°16'49.4"
Ecl. long./lat. (en fecha): +341°28'58.8"/-75°16'51.6"
Oblicuidad eclíptica (en fecha): +23°26'10.2"
Luz mínima siguiente: 1h57m27.3s
Hora Aparente Sideral: 1h57m26.2s
Tránsito: 23h38m
Circumpolar (nunca se oculta)
Constelación IAU: Ret

AR/Dec (J2000.0): 3h32m51.08s/-66°22'3[illegible].2"

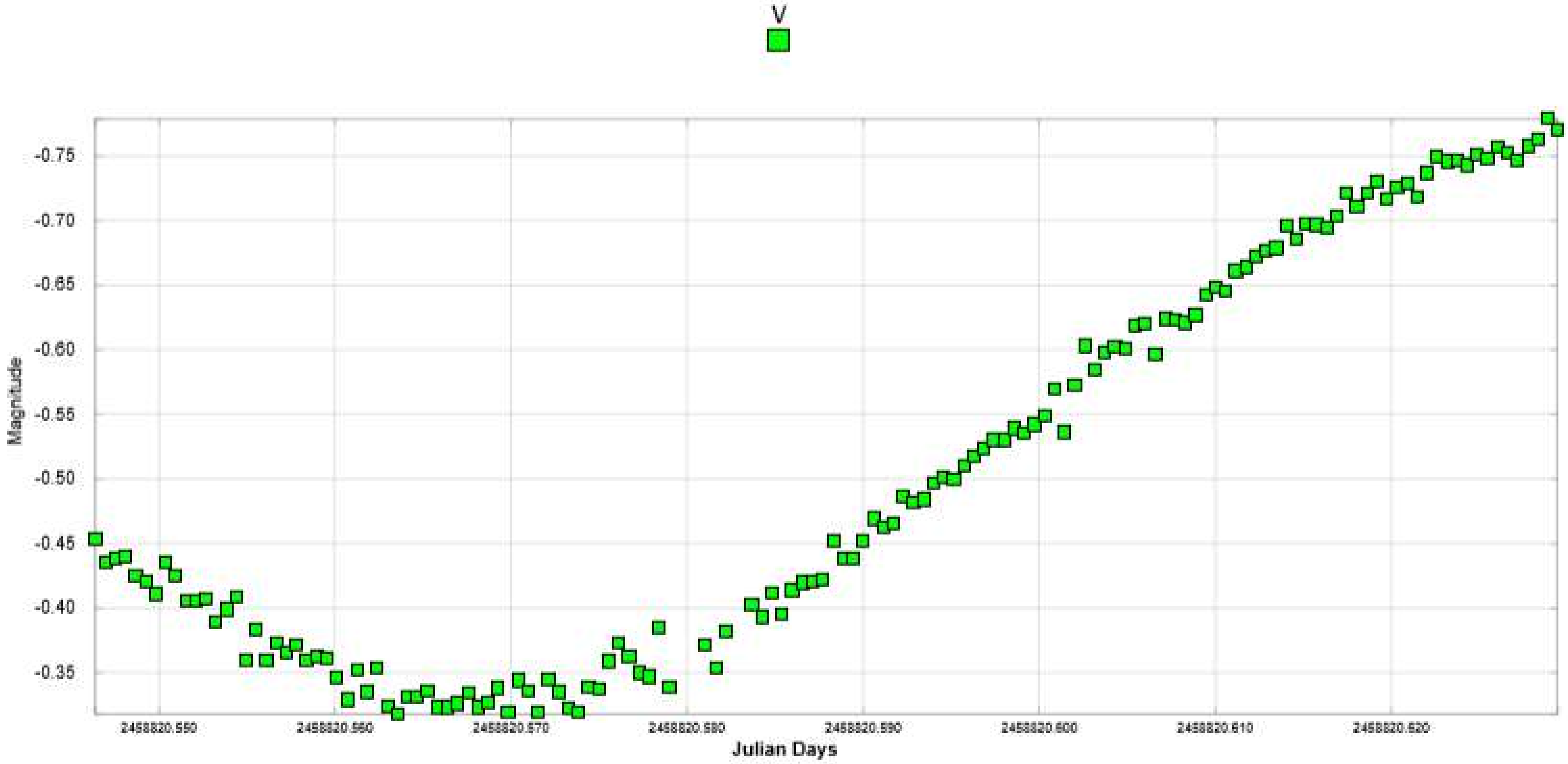
Fecha y hora

Fecha y hora: 2019 – 12 – 2

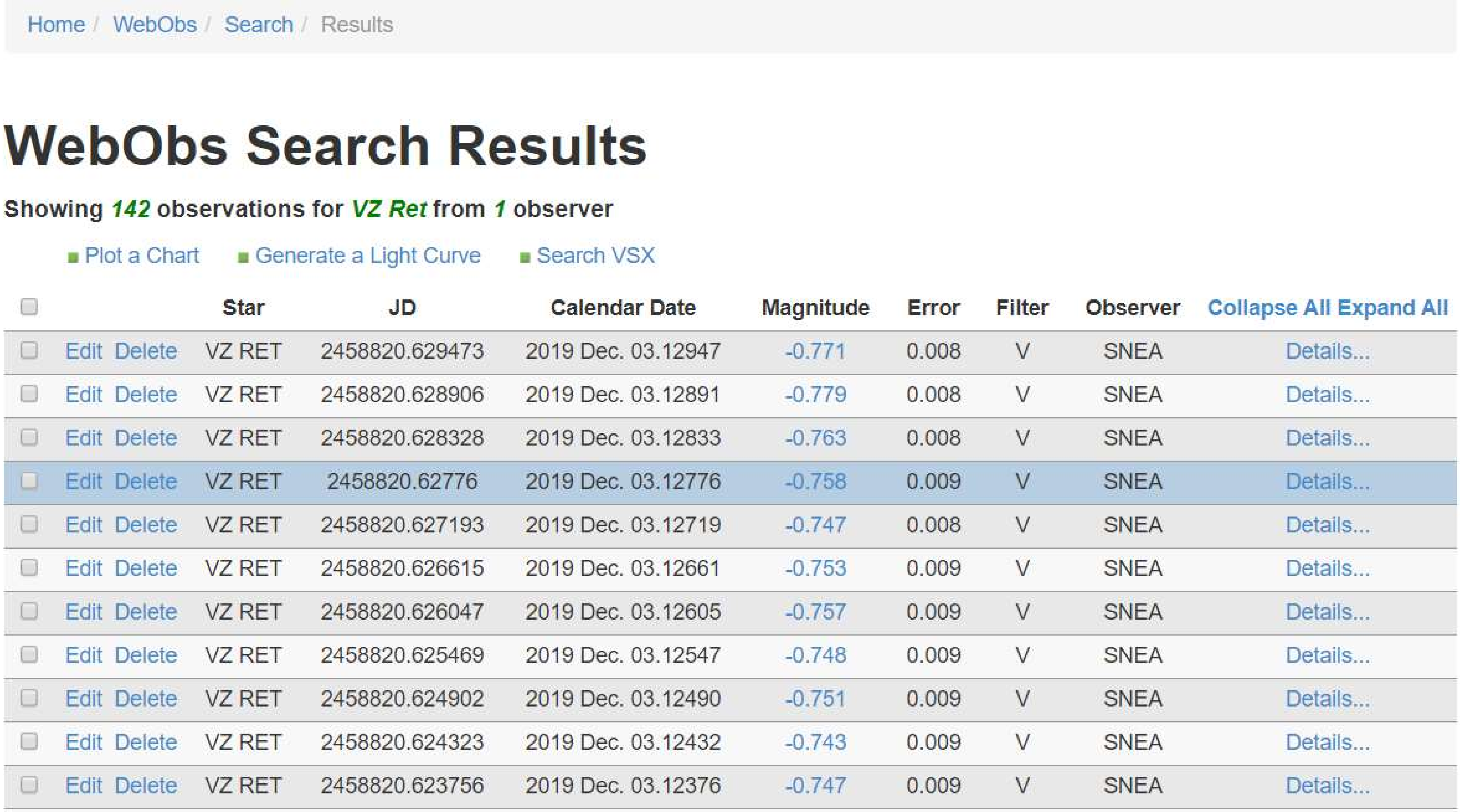
Día Juliano: 22 : 6 : 34

Tierra, Observatorio Antares, 20 m
FOV 0.97°
7.48 FPS
2019-12-02 22:06:34 UTC-03:00

HIP 16397
HIP 16368
HIP 16527
HIP 16903
HIP 15820
HIP 16022
-66°10'
-66°20'
-66°30'
-66°40'
-66°50'
-67°
-67°10'
-67°20'
-67°30'
-67°40'
3h30m
3h20m



AAVSO Light Curve: **VZ Ret** 2019/12/03 *to* 2019/12/03



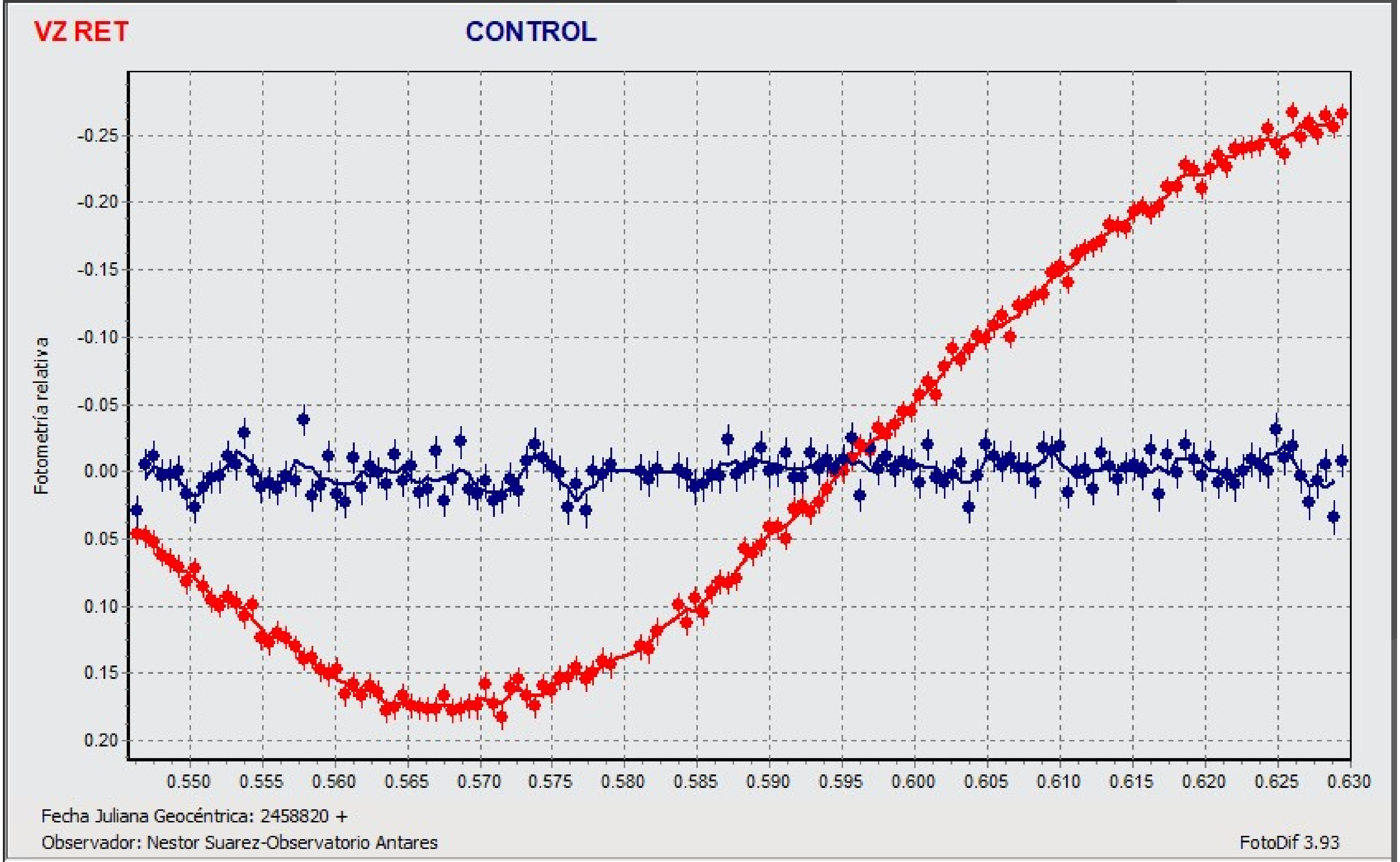
Home / WebObs / Search / Results

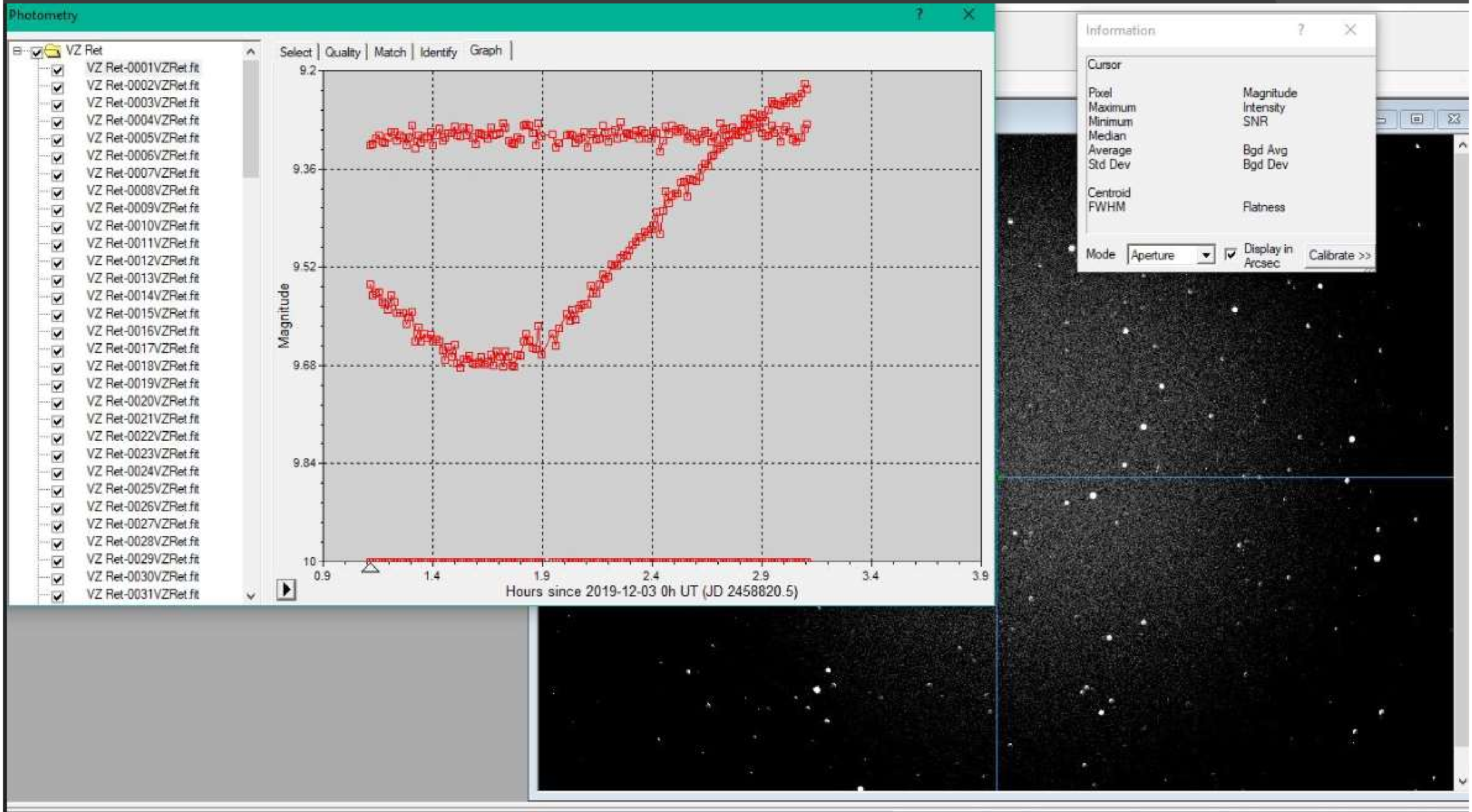
WebObs Search Results

Showing *142* observations for *VZ Ret* from *1* observer

- Plot a Chart
- Generate a Light Curve
- Search VSX

☐		Star	JD	Calendar Date	Magnitude	Error	Filter	Observer	Collapse All Expand All
☐	Edit Delete	VZ RET	2458820.629473	2019 Dec. 03.12947	-0.771	0.008	V	SNEA	Details...
☐	Edit Delete	VZ RET	2458820.628906	2019 Dec. 03.12891	-0.779	0.008	V	SNEA	Details...
☐	Edit Delete	VZ RET	2458820.628328	2019 Dec. 03.12833	-0.763	0.008	V	SNEA	Details...
☐	Edit Delete	VZ RET	2458820.62776	2019 Dec. 03.12776	-0.758	0.009	V	SNEA	Details...
☐	Edit Delete	VZ RET	2458820.627193	2019 Dec. 03.12719	-0.747	0.008	V	SNEA	Details...
☐	Edit Delete	VZ RET	2458820.626615	2019 Dec. 03.12661	-0.753	0.009	V	SNEA	Details...
☐	Edit Delete	VZ RET	2458820.626047	2019 Dec. 03.12605	-0.757	0.009	V	SNEA	Details...
☐	Edit Delete	VZ RET	2458820.625469	2019 Dec. 03.12547	-0.748	0.009	V	SNEA	Details...
☐	Edit Delete	VZ RET	2458820.624902	2019 Dec. 03.12490	-0.751	0.009	V	SNEA	Details...
☐	Edit Delete	VZ RET	2458820.624323	2019 Dec. 03.12432	-0.743	0.009	V	SNEA	Details...
☐	Edit Delete	VZ RET	2458820.623756	2019 Dec. 03.12376	-0.747	0.009	V	SNEA	Details...


VZ RET
CONTROL
Fotometría relativa
-0.25
-0.20
-0.15
-0.10
-0.05
0.00
0.05
0.10
0.15
0.20
0.550
0.555
0.560
0.565
0.570
0.575
0.580
0.585
0.590
0.595
0.600
0.605
0.610
0.615
0.620
0.625
0.630
Fecha Juliana Geocéntrica: 2458820 +
Observador: Nestor Suarez-Observatorio Antares
FotoDif 3.93


Photometry
?
VZ Ret
VZ Ret-0001VZRet.fit
VZ Ret-0002VZRet.fit
VZ Ret-0003VZRet.fit
VZ Ret-0004VZRet.fit
VZ Ret-0005VZRet.fit
VZ Ret-0006VZRet.fit
VZ Ret-0007VZRet.fit
VZ Ret-0008VZRet.fit
VZ Ret-0009VZRet.fit
VZ Ret-0010VZRet.fit
VZ Ret-0011VZRet.fit
VZ Ret-0012VZRet.fit
VZ Ret-0013VZRet.fit
VZ Ret-0014VZRet.fit
VZ Ret-0015VZRet.fit
VZ Ret-0016VZRet.fit
VZ Ret-0017VZRet.fit
VZ Ret-0018VZRet.fit
VZ Ret-0019VZRet.fit
VZ Ret-0020VZRet.fit
VZ Ret-0021VZRet.fit
VZ Ret-0022VZRet.fit
VZ Ret-0023VZRet.fit
VZ Ret-0024VZRet.fit
VZ Ret-0025VZRet.fit
VZ Ret-0026VZRet.fit
VZ Ret-0027VZRet.fit
VZ Ret-0028VZRet.fit
VZ Ret-0029VZRet.fit
VZ Ret-0030VZRet.fit
VZ Ret-0031VZRet.fit
Select
Quality
Match
Identify
Graph
9.2
9.36
9.52
9.68
9.84
10
Magnitude
0.9
1.4
1.9
2.4
2.9
3.4
3.9
Hours since 2019-12-03 0h UT (JD 2458820.5)
Information
?
Cursor
Pixel
Maximum
Minimum
Median
Average
Std Dev
Centroid
FWHM
Magnitude
Intensity
SNR
Bgd Avg
Bgd Dev
Flatness
Mode
Aperture
Display in Arcsec
Calibrate >>