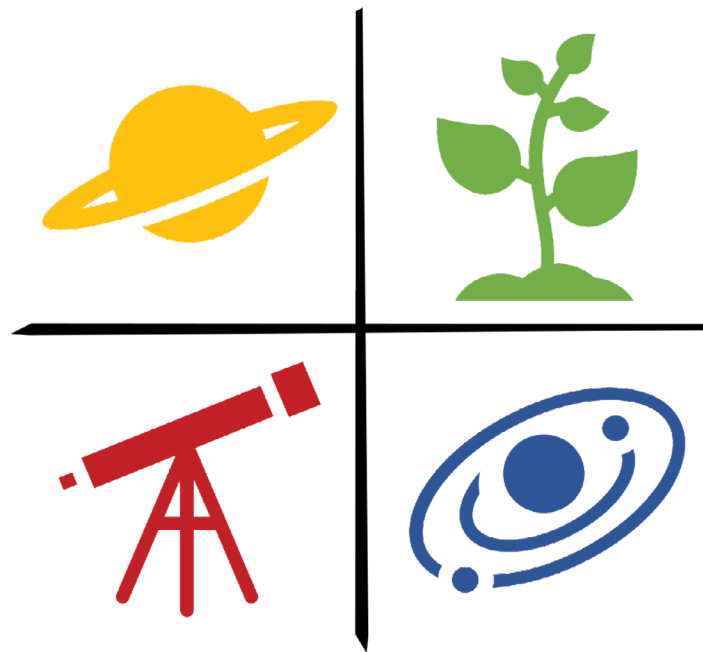


MAGNETIC CATAclysmic VARIABLES (CVS)

Version September 2021



**Picture Rocks Observatory and
Astrobiology Research Center**

picturerocksobservatory.org/mcv-catalog

CONTENTS

00	■ RIGHT ASCENSION 00 HOURS			
	J000511.8+634018 (Synchronous Polar)	00h 05m 11.86s	+63° 40' 18.55"	002
	V479 And (Pre-Polar - LARP)	00h 18m 56.93s	+34° 54' 44.23"	004
	V1033 Cas (Intermediate Polar)	00h 22m 57.64s	+61° 41' 7.57"	007
	V709 Cas (Intermediate Polar)	00h 28m 48.83s	+59° 17' 22.03"	009
	V515 And (Intermediate Polar)	00h 55m 19.9s	+46° 12' 57"	011
01	■ RIGHT ASCENSION 01 HOURS			
	EQ Cet (Pre-Polar - LARP)	01h 28m 52.54s	-23° 39' 43.96"	014
	CV Hyi (Synchronous Polar)	01h 32m 43.38s	-65° 54' 37.3"	017
	BL Hyi (Synchronous Polar)	01h 41m 00.40s	-67° 53' 27.47"	019
	J0153+7446 (Intermediate Polar)	01h 53m 21.01s	+74° 46' 22.02"	021
	J0154-5947 (Synchronous Polar)	01h 54m 00.93s	-59° 47' 49.10"	023
	FL Cet (Synchronous Polar)	01h 55m 43.40s	+00° 28' 7.16"	025
02	■ RIGHT ASCENSION 02 HOURS			
	Al Tri (Synchronous Polar)	02h 03m 48.62s	+29° 59' 25.90"	030
	BS Tri (Synchronous Polar)	02h 09m 29.81s	+28° 32' 29.15"	033
	Gaia 18aot (Synchronous Polar)	02h 11m 7.99s	+30° 54' 6.96"	036
	J0227+1306 (Synchronous Polar)	02h 27m 32.87s	+13° 06' 17.08"	038
	CW Hyi (Synchronous Polar)	02h 30m 51.15s	-68° 42' 5.44"	041
	WW Hor (Synchronous Polar)	02h 36m 11.45s	-52° 19' 13.5"	043
	J0240+1952 (Intermediate Polar)	02h 40m 48.54s	+19° 52' 27.05"	046
	PT Per (Synchronous Polar)	02h 42m 51.19s	+56° 41' 31.25"	048
	XY Ari (Intermediate Polar)	02h 56m 8.19s	+19° 26' 34.12"	050
	J0257+3337 (Synchronous Polar)	02h 57m 37.75s	+33° 37' 50.52"	053
03	■ RIGHT ASCENSION 03 HOURS			
	J0303+0054 (Pre-Polar - LARP)	03h 03m 8.36s	+00° 54' 43.93"	056
	EF Eri (Pre-Polar - LARP)	03h 14m 13.25s	-22° 35' 42.92"	058
	J0328+0522 (Synchronous Polar)	03h 28m 55.01s	+05° 22' 54.17"	061
	GK Per (Intermediate Polar)	03h 31m 12.01s	+43° 54' 15.47"	064
	VY For (Synchronous Polar)	03h 32m 4.60s	-25° 56' 55.06"	067
	UZ For (Synchronous Polar)	03h 35m 28.65s	-25° 44' 21.77"	069
	J035011+3232 (Synchronous Polar)	03h 50m 10.71s	+32° 32' 29.6"	072
	J0357+1029* (Candidate Synchronous Polar)	03h 57m 58.67s	+10° 29' 42.9"	075
04	■ RIGHT ASCENSION 04 HOURS			
	J0425-5714 (Synchronous Polar)	04h 25m 38.61s	-57° 14' 36.21"	080
	IW Eri (Synchronous Polar)	04h 25m 55.24s	-19° 45' 30.1"	083
	ZTF 0451+16* (Candidate Polar)	04h 51m 22.36s	+16° 10' 19.5"	086
	RS Cae (Synchronous Polar)	04h 53m 25.16s	-42° 13' 39.6"	088
	J0457.1+4528 (Intermediate Polar)	04h 57m 8.32s	+45° 27' 50.01"	091
05	■ RIGHT ASCENSION 05 HOURS			
	HY Eri (Synchronous Polar)	05h 01m 46.41s	-03° 59' 20.57"	094

RIGHT ASCENSION

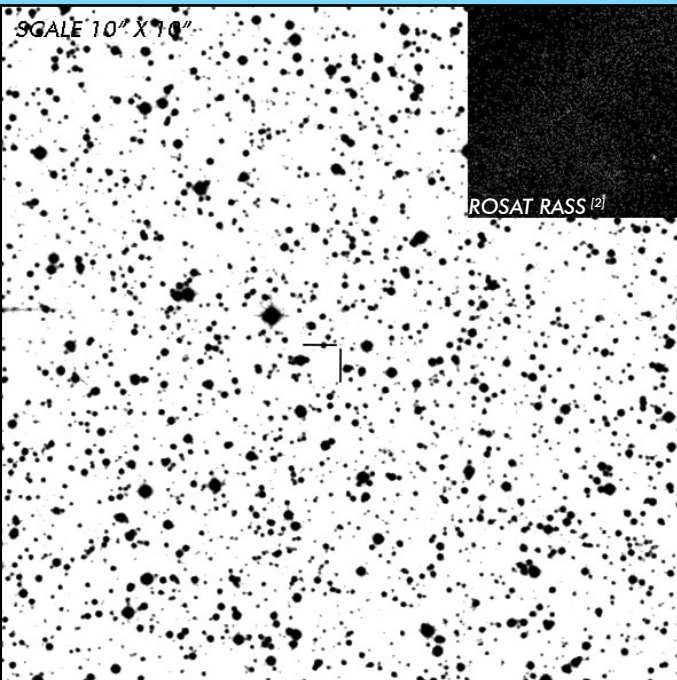
00 HOURS



J000511.8+634018

Period Gap
Polar

OBSERVATION DATA



OTHER NAME(S): 3XMM J000511.8+634018			
FOUND: ZTF 2020			
RIGHT ASCENSION [1]	00 ^h 05 ^m 11.86 ^s	DECLINATION [1]	+63° 40' 18.55"
PARALLAXES (mas) [3]	-0.10 ± 0.75	DISTANCE (pc) [3]	2800
DISTANCE BOUNDARIES (pc) [3]		1500	5000
MAGNETIC FIELD (MG)		...	...
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.0927	2.225	133.5	
OPTICAL (CRTS MAGNITUDE)			
...
OTHER INFORMATION			

SUMMARY

EXTERNAL LINKS



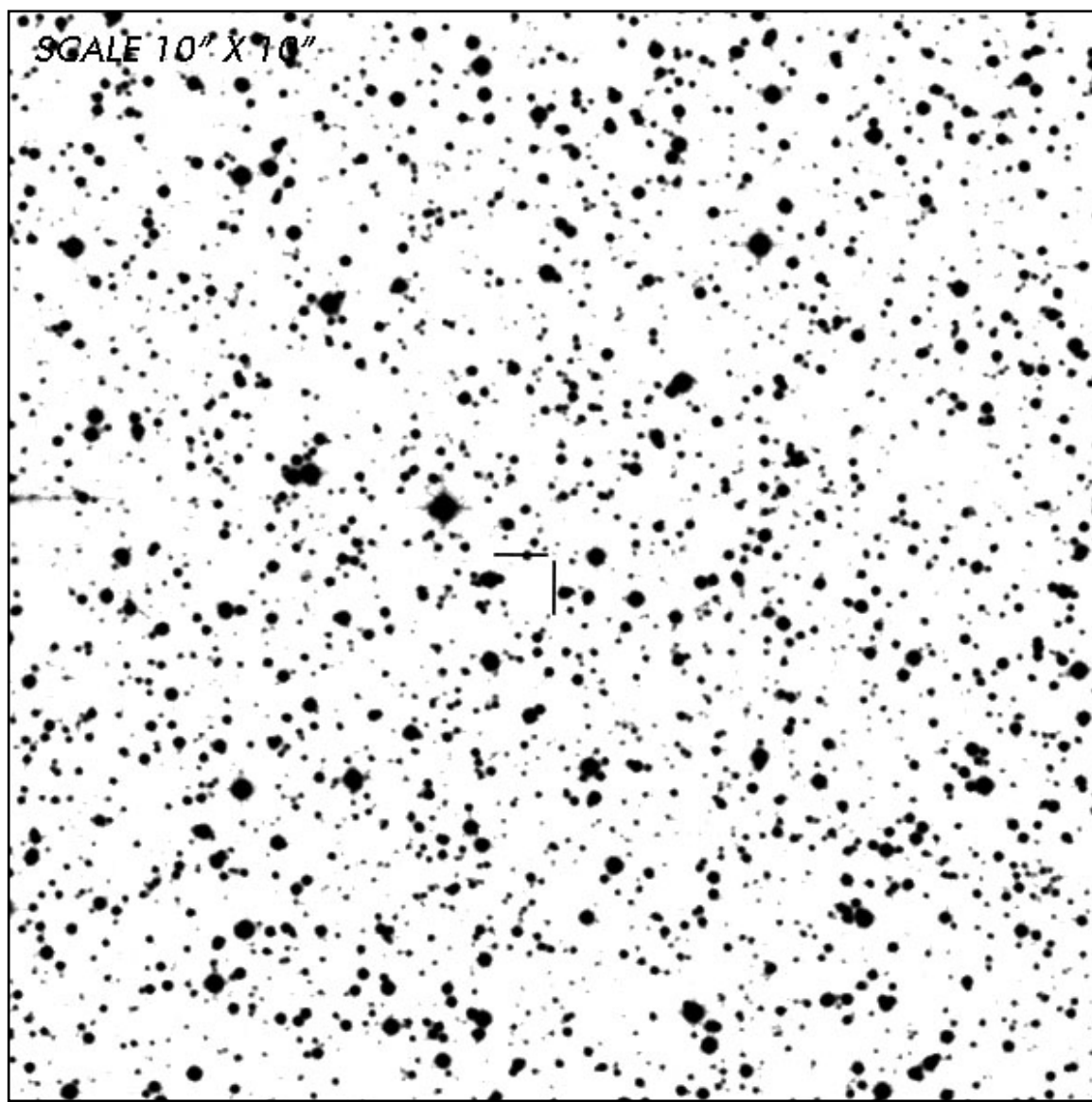
REFERENCES

¹ VizieR Online Data Catalog: XMM-Newton Serendipitous Source Catalogue 3XMM-DR8 (XMM-SSC, 2018)

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³ Schwope, A. D. et. al. 2020, "Identification of 3XMM J000511.8+634018 as a new polar at $P_{orb} = 133.5\text{min}$ – is it inside or outside the period gap?", A&A, Vol. 637, A35

⁴

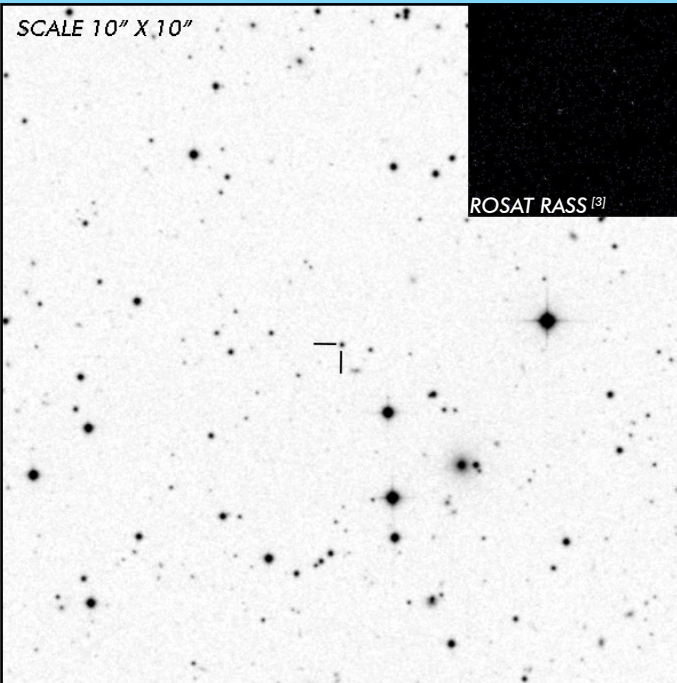


NOTES

V479 And

Long Period Pre-Polar

OBSERVATION DATA

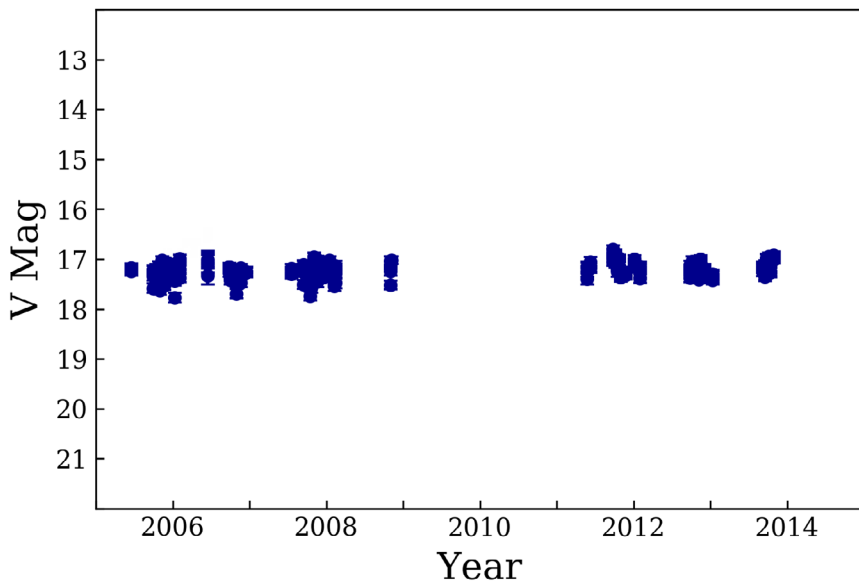


OTHER NAME(S): SDSS J001856.93+345444.3			
FOUND: SDSS 2001			
RIGHT ASCENSION ^[1]	00 ^h 18 ^m 56.93 ^s	DECLINATION ^[1]	+34° 54' 44.23"
PARALLAXES (mas) ^[1]	0.42 ± 0.09	DISTANCE (pc) ^[2]	2050.9
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 1743.2	Upper = 2469.5
MAGNETIC FIELD (MG)		...	...
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.59409	14.2582	855.494	
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 16.75	V _{LOW} = 18	...	...
OTHER INFORMATION			

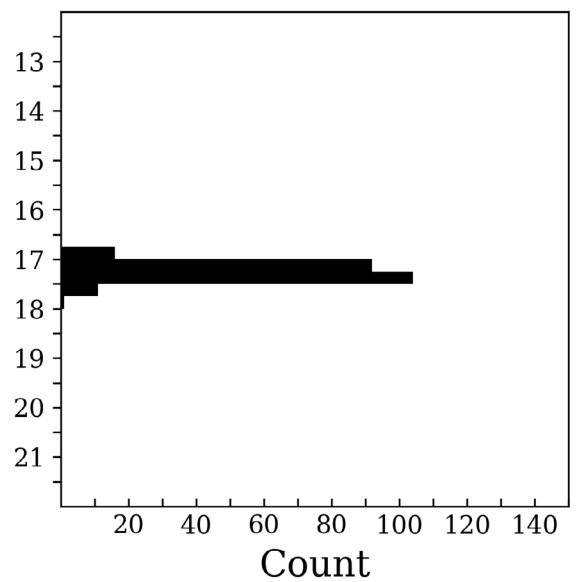
SUMMARY

CRTS PHOTOMETRY

V479 And



n = 224

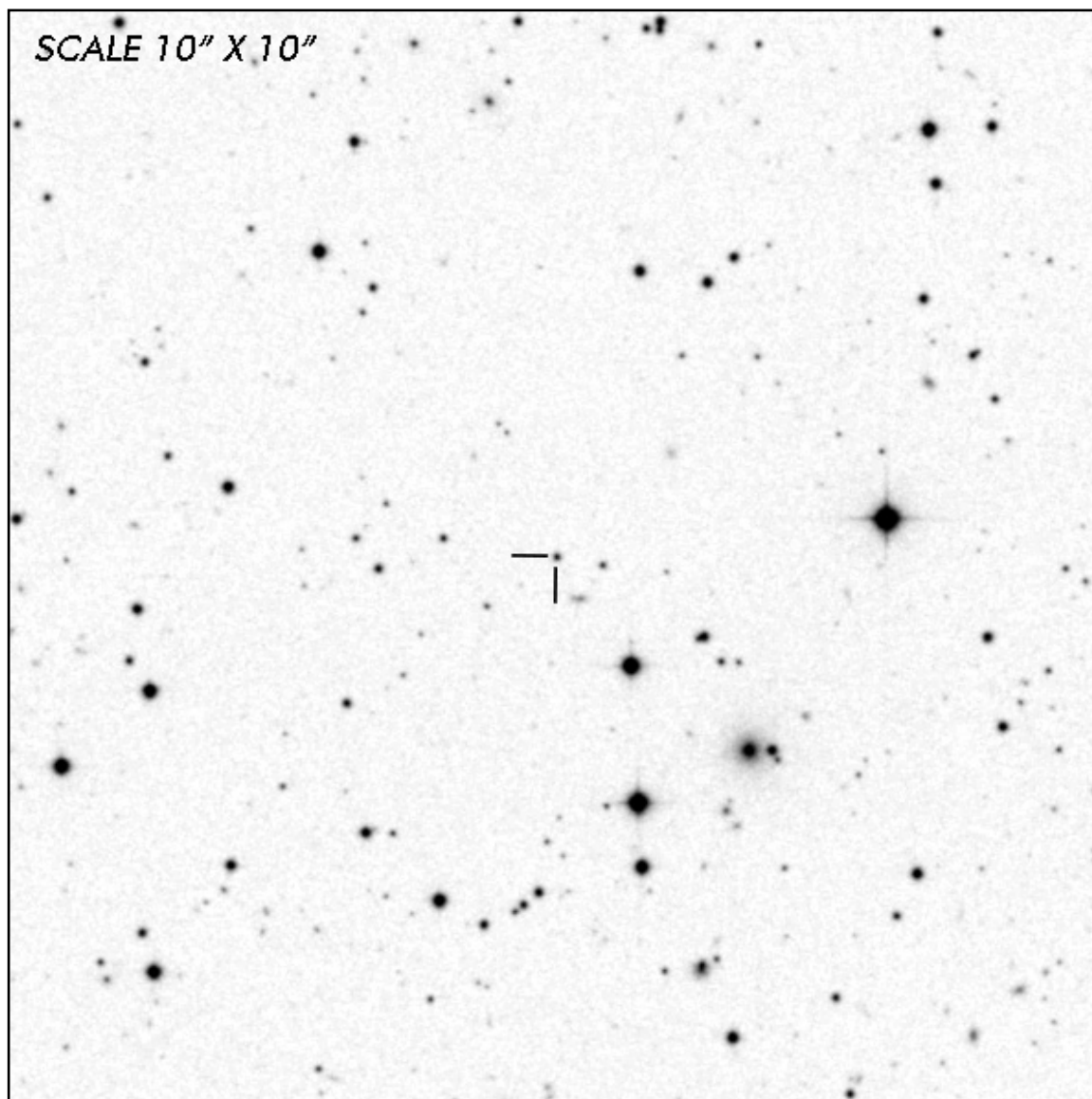


EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes. IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58](#)
- ³ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁴ [Szkody, P. et al. 2005, "Cataclysmic Variables from Sloan Digital Sky Survey. IV. The Fourth Year \(2003\)", *ApJ*, Vol. 129, 2,386-2,399](#)
- ⁵

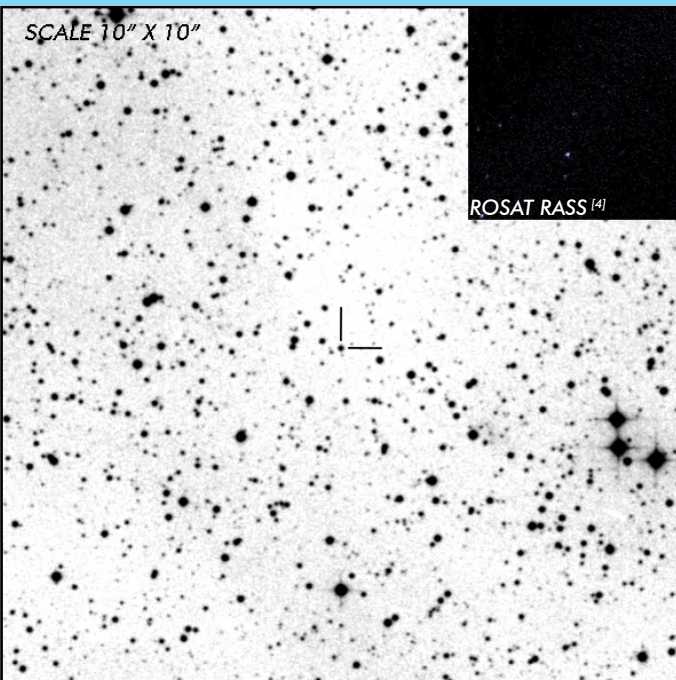


NOTES

V1033 Cas

Long Period
Intermediate Polar

OBSERVATION DATA



OTHER NAME(S): 1RXS J002258.3+61411; IGR J00234+6141					
FOUND: INTEGRAL 2005					
RIGHT ASCENSION ^[1]		00 ^h 22 ^m 57.64 ^s	DECLINATION ^[1]		+61° 41' 07.57"
PARALLAXES (mas) ^[1]		0.644 ± 0.055	DISTANCE (pc) ^[2]		1492.872
DISTANCE BOUNDARIES (pc) ^[2]			Lower = 1376.719	Upper = 1629.86	
WD MASS (M_o)		0.91	...		...
ORBITAL PERIOD (P_o) ^[3]			SPIN PERIOD (P_s) ^[3]		
DAYS	HOURS	MINUTES	HOURS	MINUTES	SECONDS
0.1681	4.033	242.0	0.15653	9.392	563.5
OPTICAL (CRTS MAGNITUDE)					
...		
OTHER INFORMATION					

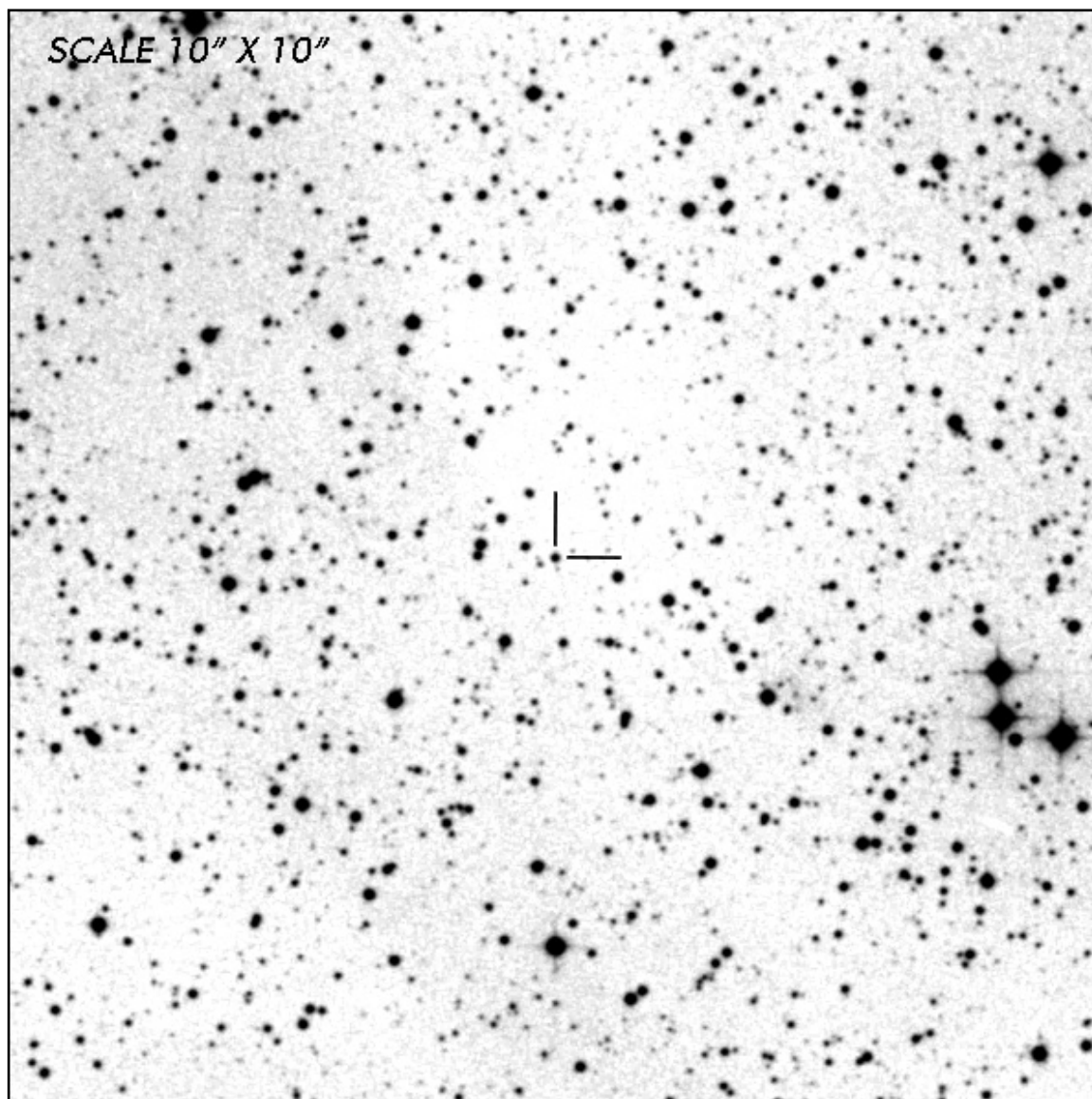
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ Gaia Collaboration et al. (2018b): Summary of the contents and survey properties
- ² Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes. IV. Distances to 1.3 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58
- ³ Koji, Mukai 2014, *The Catalog of IPs and IP Candidates by Right Ascension*
- ⁴ HEASARC Skyview: ROSAT All-Sky
- ⁵ Bonnet-Bidaud, J. M. et. al. 2007, "IGR J00234+6141: A new INTEGRAL source identified as an intermediate polar", *A&A*, Vol. 473, pp. 185-189
- ⁶ Den Hartog, P. R. et al. 2005, "IGR J00234+6141: A new weak hard X-Ray source found by INTEGRAL", *Atel*, No. 394
- ⁷ Brunschweiler, J. et al. 2009, "Intermediate polars in the Swift/BAT survey: spectra and white dwarf masses", *A&A*, Vol. 496, pp. 121-127

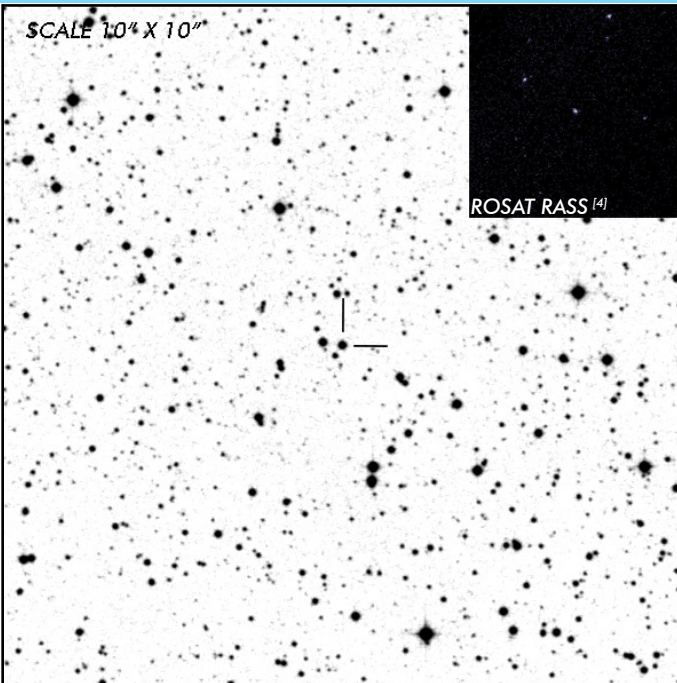


NOTES

V709 Cas

Long Period
Intermediate Polar

OBSERVATION DATA



OTHER NAME(S): RX J0028.8+5917; SWIFT J0028.9+5917					
FOUND: ROSAT 1995					
RIGHT ASCENSION ^[1]		00 ^h 28 ^m 48.83 ^s	DECLINATION ^[1]		+59° 17' 22.03"
PARALLAXES (mas) ^[1]		1.339 ± 0.021	DISTANCE (pc) ^[2]		731.393
DISTANCE BOUNDARIES (pc) ^[2]			Lower = 720.101	Upper = 743.038	
WD MASS (M_⊙)		0.88	...		...
ORBITAL PERIOD (P_o) ^[3]			SPIN PERIOD (P_s) ^[3]		
DAYS	HOURS	MINUTES	HOURS	MINUTES	SECONDS
0.2222	5.333	320.0	0.0869	5.213	312.8
OPTICAL (CRTS MAGNITUDE)					
...		
OTHER INFORMATION					

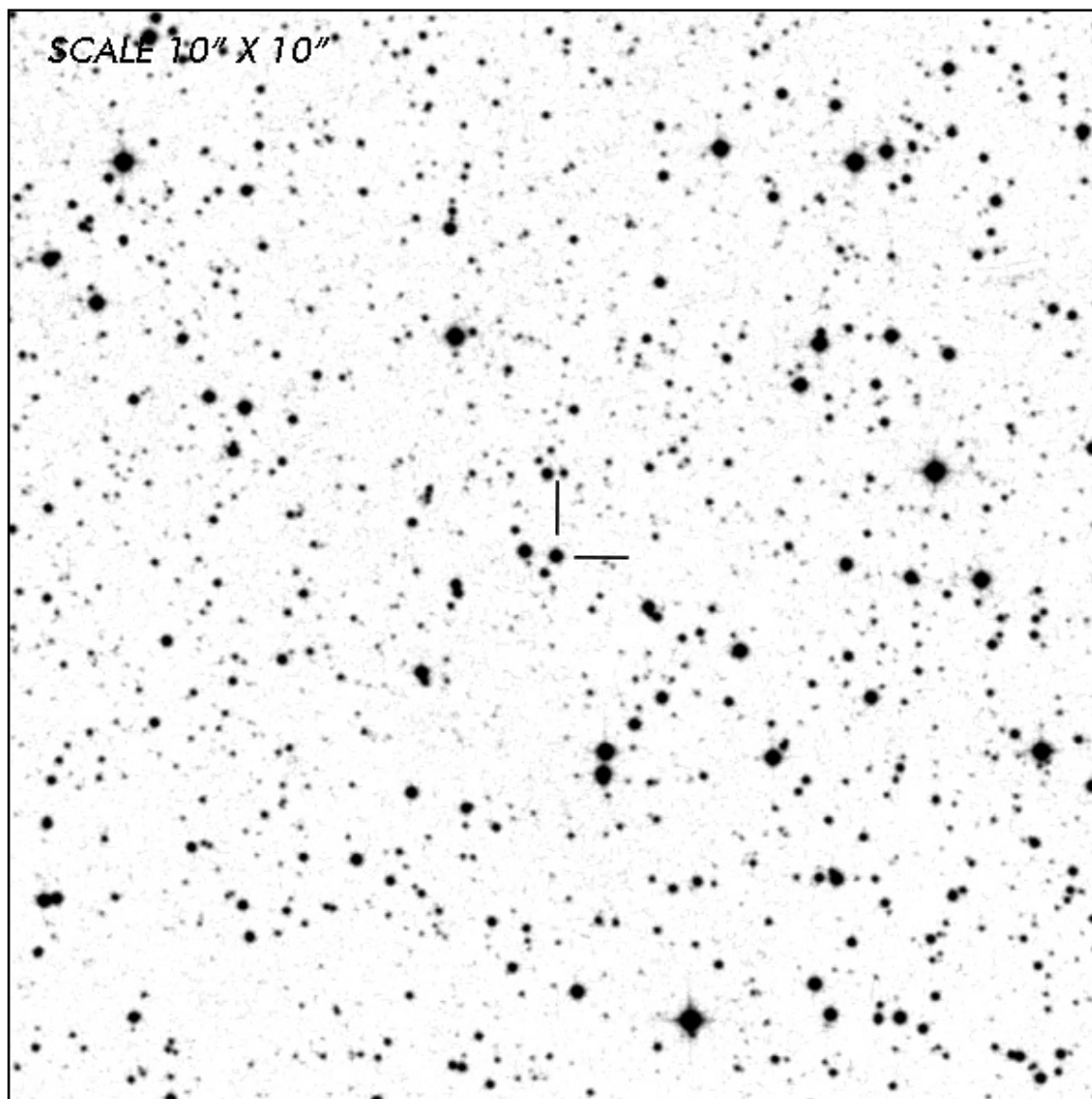
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ Gaia Collaboration et al. (2018b): Summary of the contents and survey properties
- ² Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes. IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58
- ³ Koji, Mukai 2014, *The Catalog of IPs and IP Candidates by Right Ascension*
- ⁴ HEASARC Skyview: ROSAT All-Sky
- ⁵ Haberl, F. et al. 1995, "New intermediate polars discovered in ROSAT survey: two spectrally distinct classes", *A&A*, Vol. 297, pp. L37-40
- ⁶ Shaw, A. W. et al. 2018, "Measuring the Masses of Intermediate Polars with NuSTAR: V709 Cas, NY Lup, and V1223 Sgr", *MNRAS*, Vol. 476, pp. 554-561

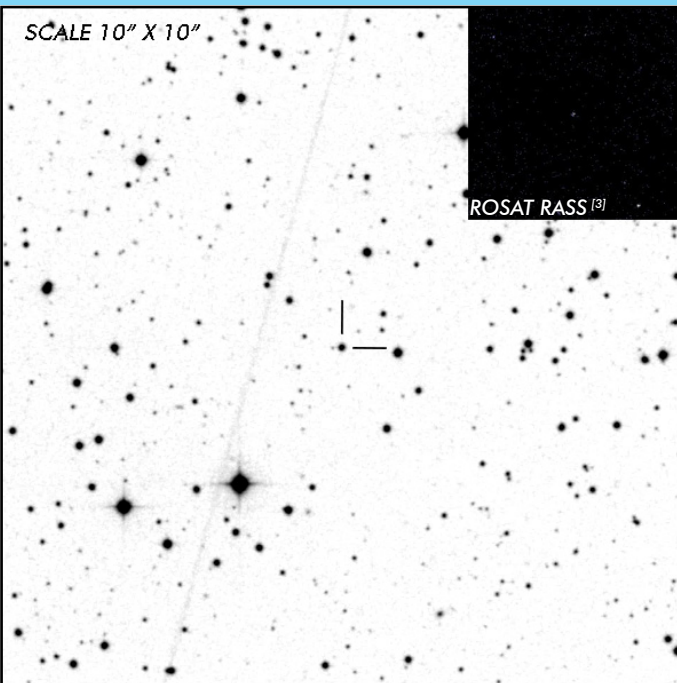


NOTES

V515 And

Period Gap Intermediate Polar

OBSERVATION DATA



OTHER NAME(S): 1RXS J005528.0+461143; XSS J00564+4548					
FOUND: RXTE 2004					
RIGHT ASCENSION ^[1]		00 ^h 55 ^m 19.85 ^s		DECLINATION ^[1]	
				+46° 12' 56.99"	
PARALLAXES (mas) ^[2]			0.994 ± 0.046		
DISTANCE (pc) ^[2]			978.443		
DISTANCE BOUNDARIES (pc) ^[2]			Lower = 936.105		Upper = 1024.707
WD MASS (M_⊙)		0.79			
ORBITAL PERIOD (P_o) ^[4]			SPIN PERIOD (P_s) ^[4]		
DAYS	HOURS	MINUTES	HOURS	MINUTES	SECONDS
0.1138	2.732	163.9	0.3233	7.758	465.5
OPTICAL (CRTS MAGNITUDE)					
...		
OTHER INFORMATION					

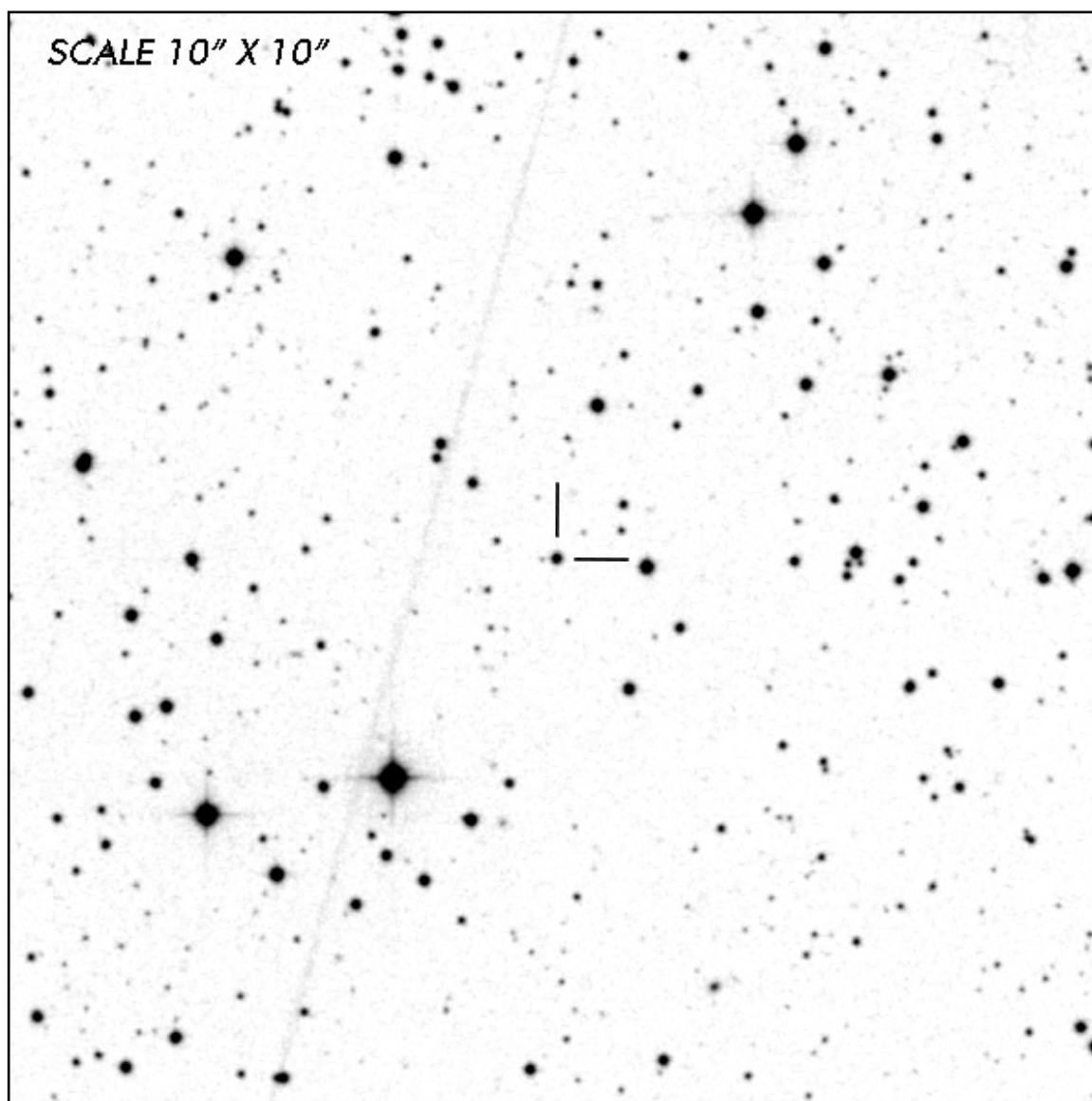
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ Samus, N. N. et al. 2003, *AstL*, 29, 468-479
- ² Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes. IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58
- ³ HEASARC Skyview: ROSAT All-Sky
- ⁴ Koji, Mukai 2014, *The Catalog of IPs and IP Candidates by Right Ascension*
- ⁵ Revnitsev, M. et al. 2004, "RXTE all-sky slew survey. Catalog of X-ray sources at |b| > 10°", *A&A*, Vol. 418, p. 927-936
- ⁶



NOTES

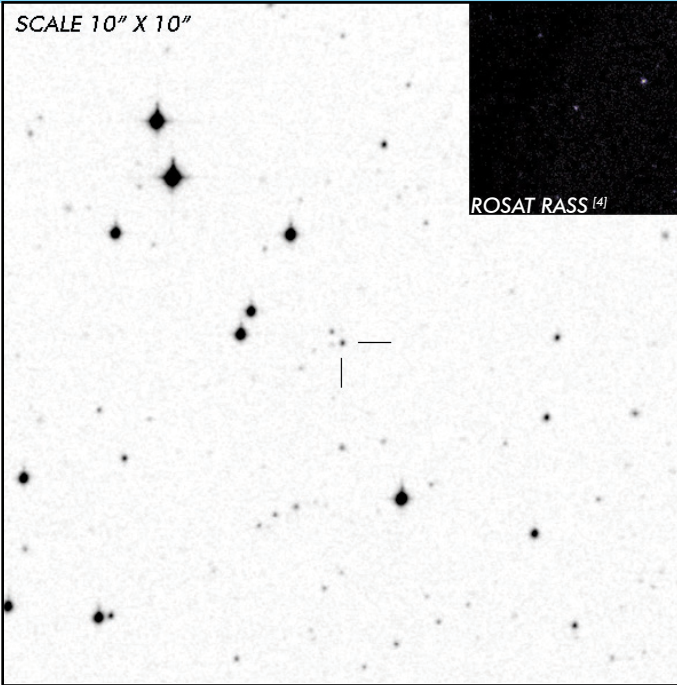
RIGHT ASCENSION

01 HOURS

EQ Cet

Short Period Pre-Polar

OBSERVATION DATA

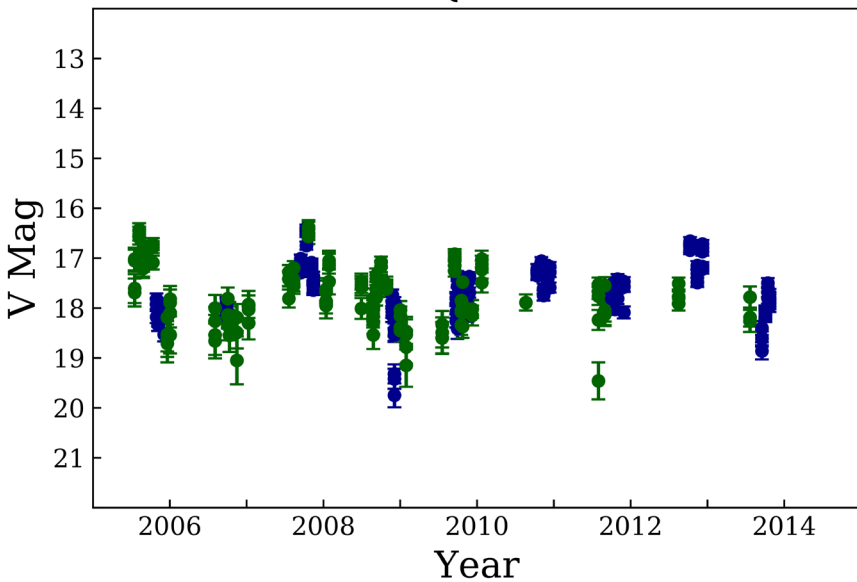


OTHER NAME(S): 1RXS J012851.9-233931, RBS 206, PM J01288-2339			
FOUND: ROSAT RBSC 1999			
RIGHT ASCENSION ^[1]	01 ^h 28 ^m 52.54 ^s	DECLINATION ^[1]	-23° 39' 43.96"
PARALLAXES (mas) ^[1]	3.51 ± 0.11	DISTANCE (pc) ^[2]	282.8
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 274.3	Upper = 291.9
MAGNETIC FIELD (MG) ^[3]		B ₍₁₎ = 34	B ₍₂₎ = 45
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.06446	1.5469	92.815	
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 16.5	V _{LOW} = 19.5	V ₍₁₎ = 18.25	...
OTHER INFORMATION			

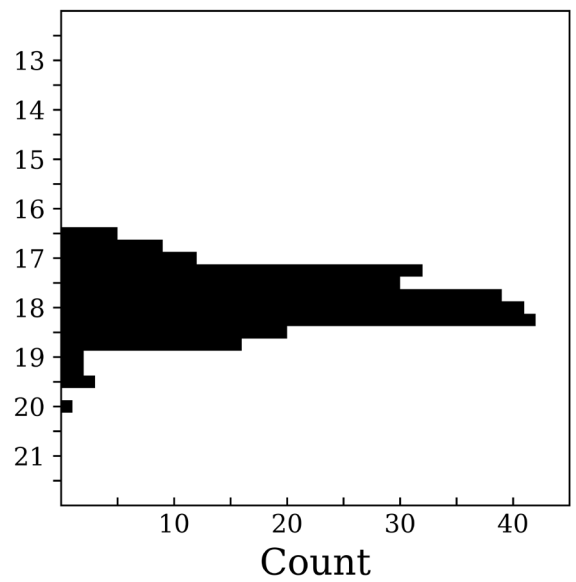
SUMMARY

CRTS PHOTOMETRY

EQ Cet



n = 254



EXTERNAL LINKS

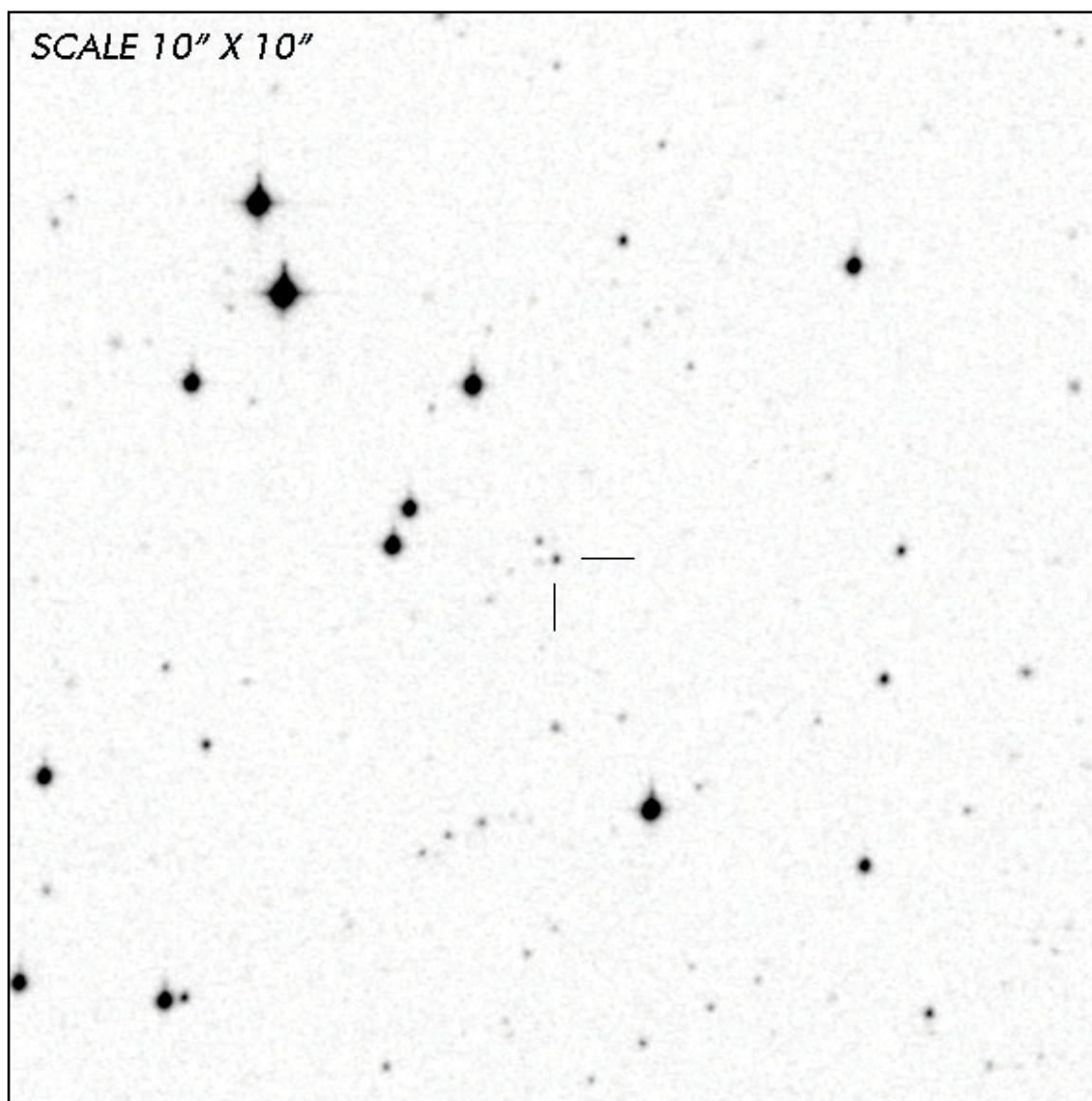


REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58](#)
- ³ [Schwope, A.D. et al. 1999, "Zeeman lines and a single cyclotron line in the low-accretion rate polar 1RXS J012851.9-233931", *A&A*, 348, 861](#)
- ⁴ [HEASARC Skyview: ROSAT All-Sky](#)
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6

7

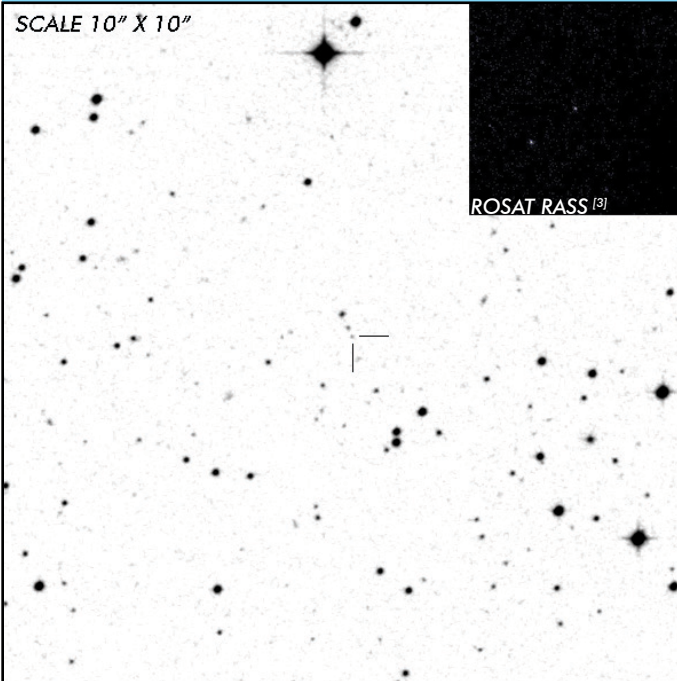


NOTES

CV Hyi

Short Period Polar

OBSERVATION DATA



OTHER NAME(S): RX J0132.7-6554; 1RXS J013242.8-655434			
FOUND: ROSAT RASS 1997			
RIGHT ASCENSION [1]	01 ^h 32 ^m 43.38 ^s	DECLINATION [1]	-65° 54' 37.3"
PARALLAXES (mas)	...	DISTANCE (pc)	...
DISTANCE BOUNDARIES (pc)		...	...
MAGNETIC FIELD (MG) [2]		B ₍₁₎ = 68	...
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.05405	1.2972	77.831	
OPTICAL (CRTS MAGNITUDE)			
...
OTHER INFORMATION			

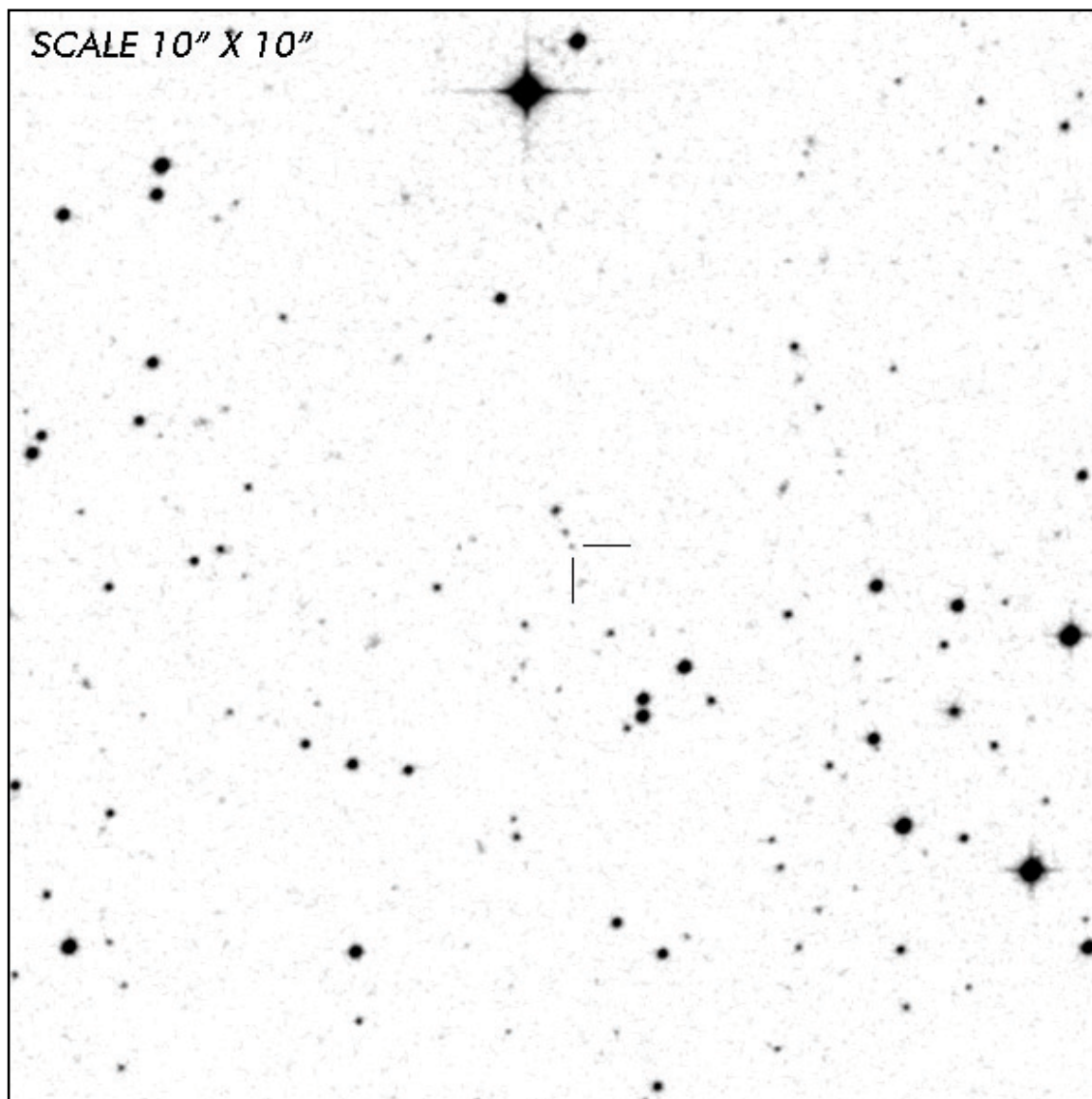
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ Fuhrmeister, B., et al. 2003, "A systematic study of X-ray variability in the ROSAT all-sky survey", *A&A*, 403, 247-260
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- ³ HEASARC Skyview: ROSAT All-Sky
- ⁴

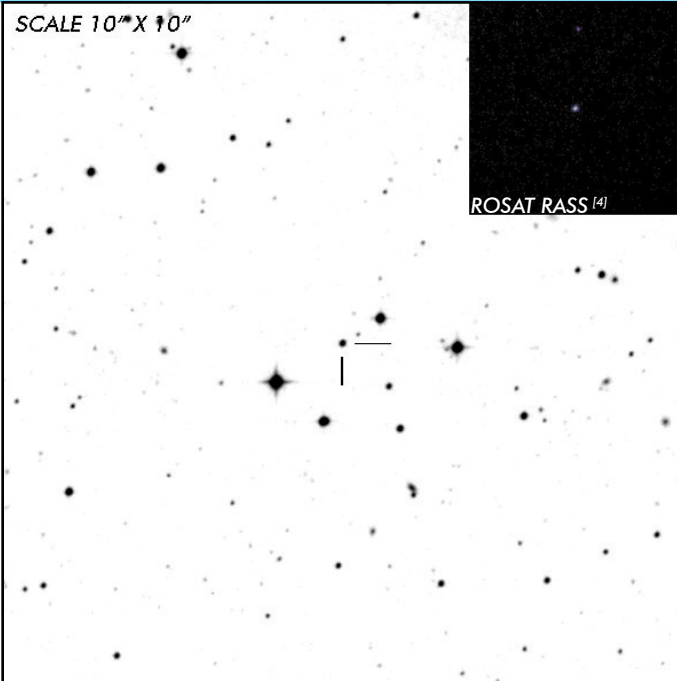


NOTES

BL Hyi

Short Period Polar

OBSERVATION DATA



OTHER NAME(S): H 0139-68, 2 EUVE J0140-67.8			
FOUND: HEAO 1982			
RIGHT ASCENSION ^[1]	01 ^h 41 ^m 00.40 ^s	DECLINATION ^[1]	-67° 53' 27.47"
PARALLAXES (mas) ^[1]	7.65 ± 0.07	DISTANCE (pc) ^[2]	130.31
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 129.07	Upper = 131.57
MAGNETIC FIELD (MG) ^[3, 5]		B ₍₁₎ = 23	B _{zee} = 21 B _{zeem} = 12
WD MASS (M_⊙) ^[5]	0.71		
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.07892	1.8940	113.638	
OPTICAL (CRTS MAGNITUDE)			
...
OTHER INFORMATION			
TEMP_{EFF} (K) ^[6]	13,300		

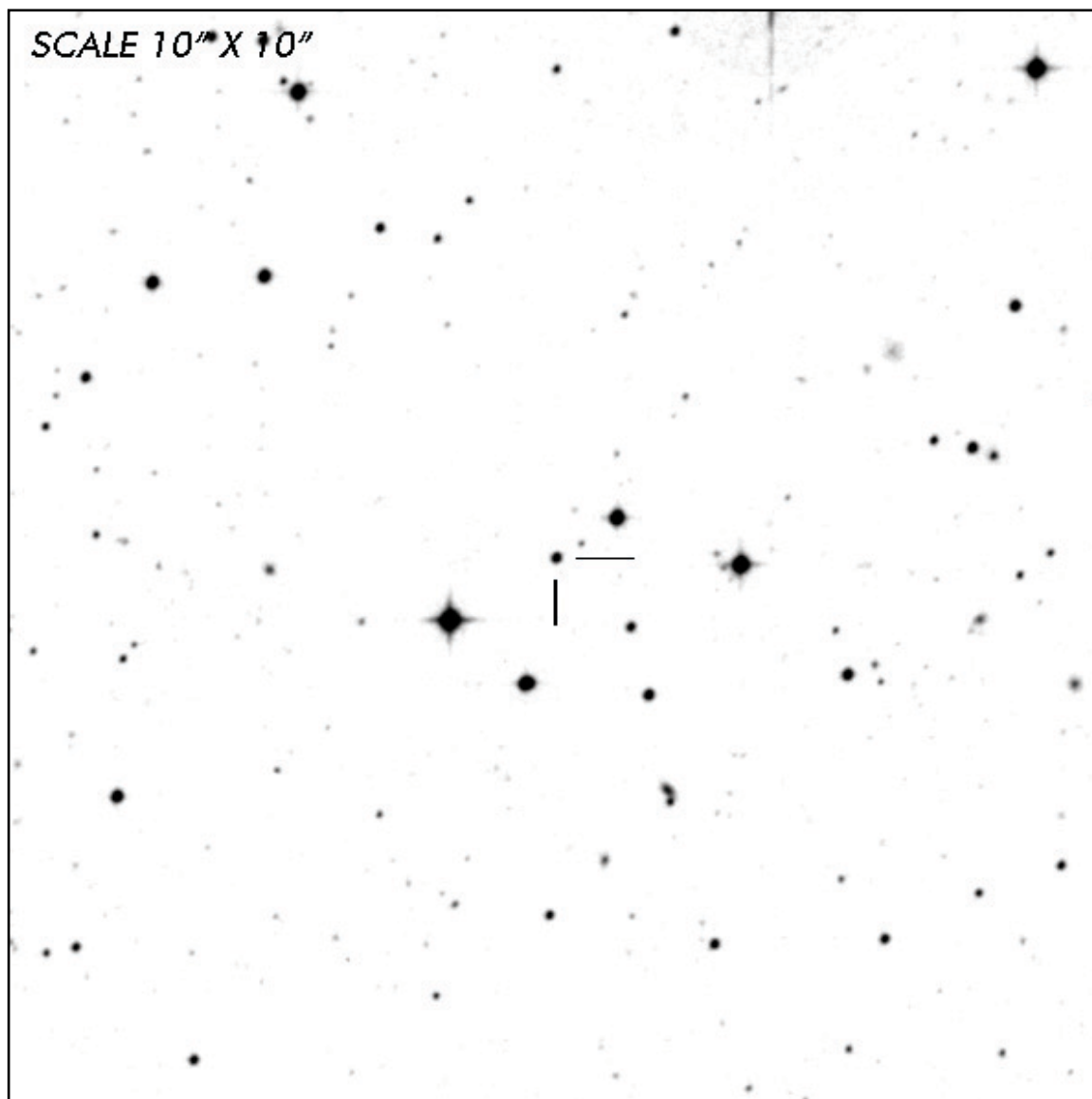
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", ApJ, Vol. 156, 58](#)
- ³ [Ferrario, L. et al. 1996, "The magnetic fields of EF Eridani and BL Hydri", MNRAS, 282, 218-222](#)
- ⁴ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁵ [Schwope, A.D. et al 1995, "Magnetism in the polar BL Hydri", A&A, 301, 447-455-](#)
- ⁶ [Araujo-Betancor, S. et al 2005, "Far-ultraviolet Spectroscopy of Magnetic Cataclysmic Variables ", ApJ, 622, 589-601](#)
- ⁷ [Visvanathan, N. et al. 1982, "Optical Identification of X-Ray Source H0139-68 with an AM Herculis-type System", Nature, Vol. 298, pp. 41-44](#)
- ⁸

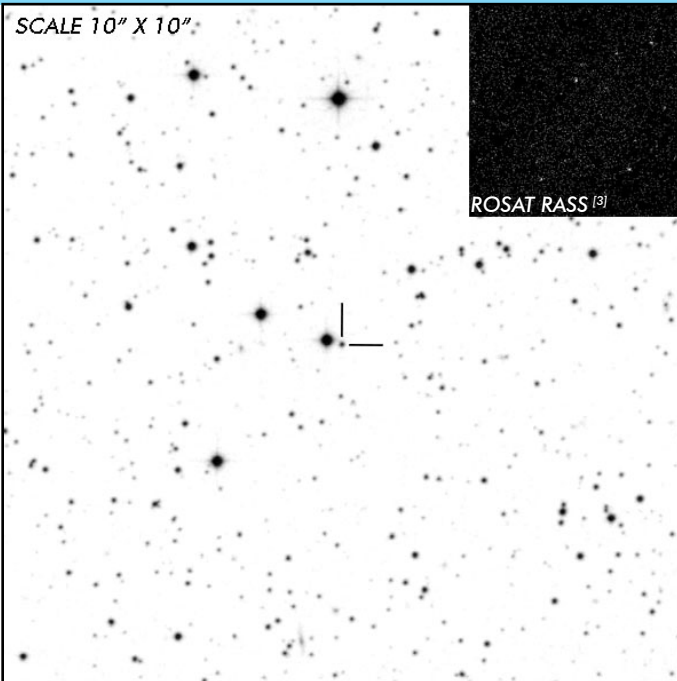


NOTES

J0153+7446

Long Period
Intermediate Polar

OBSERVATION DATA



OTHER NAME(S): RX J0153.3+7446; 1RXS J015317.9+744641					
FOUND: ROSAT 1995					
RIGHT ASCENSION ^[1]		01 ^h 53 ^m 21.01 ^s	DECLINATION ^[1]		+74° 46' 22.02"
PARALLAXES (mas)		0.6217±0.052	DISTANCE (pc)		...
DISTANCE BOUNDARIES (pc)			...	...
MAGNETIC FIELD (MG)			...	...
ORBITAL PERIOD (P _o) ^[2]			SPIN PERIOD (P _s) ^[2]		
DAYS	HOURS	MINUTES	HOURS	MINUTES	SECONDS
0.16415	3.9396	236.376	0.64833	38.9	1974
OPTICAL (CRTS MAGNITUDE)					
...
OTHER INFORMATION					

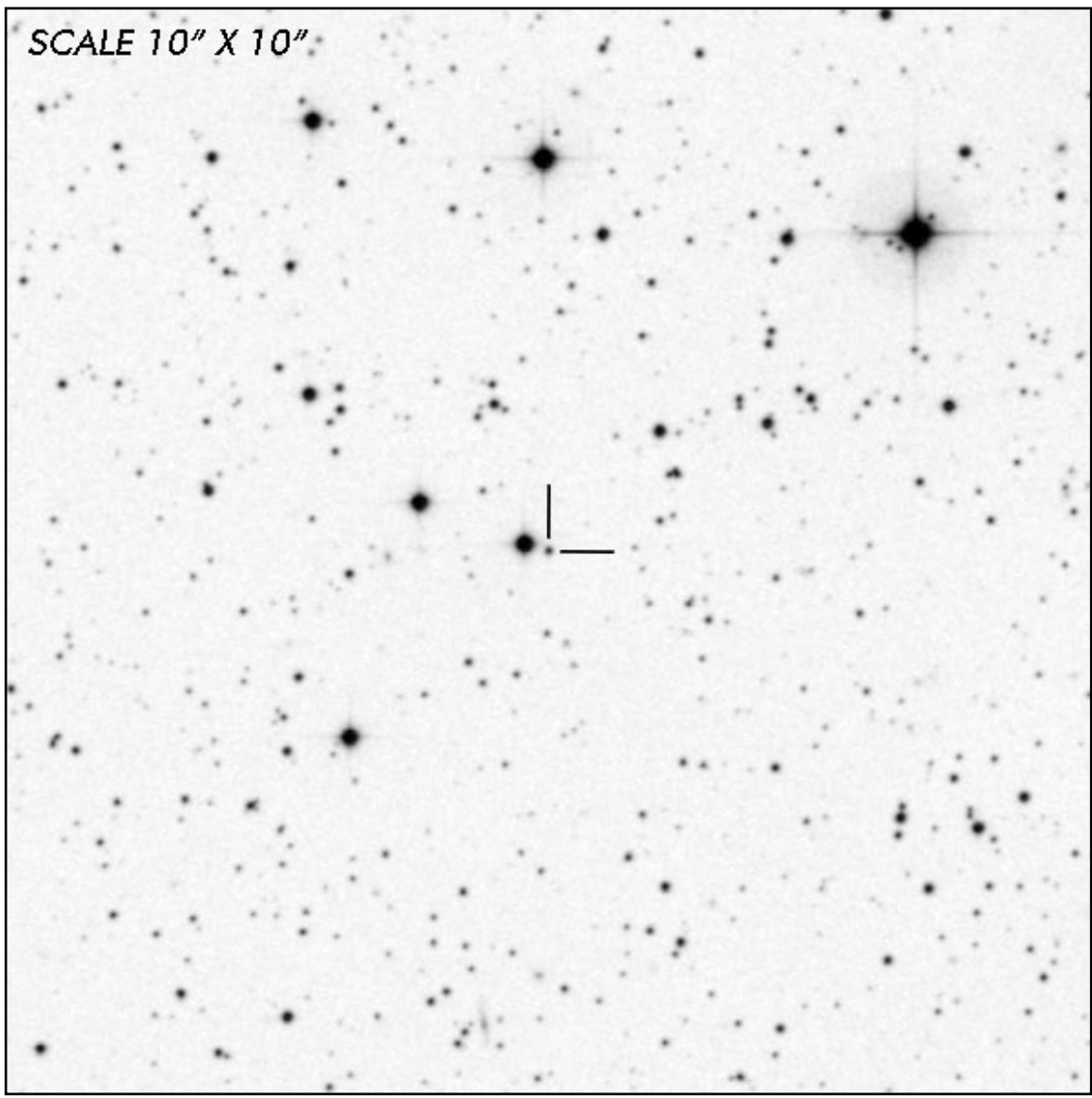
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ Gaia Collaboration et al. (2018b): Summary of the contents and survey properties
- ² Koji, Mukai 2014, *The Catalog of IPs and IP Candidates by Right Ascension*
- ³ HEASARC Skyview: ROSAT All-Sky
- ⁴ Haberl, F. et al. 1995, "New Intermediate Polars Discovered in the ROSAT survey: Two Spectrally Distinct Classes.", *A&A*, Vol. 297, p. L37
- ⁵

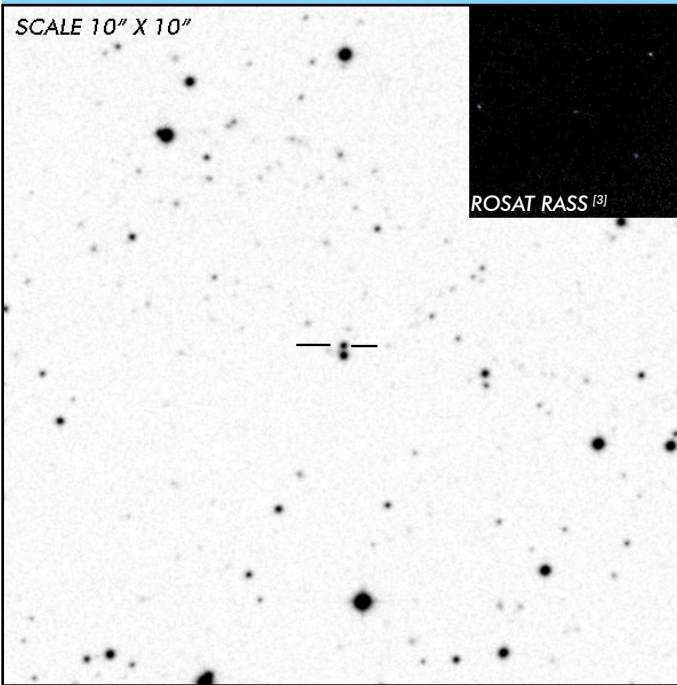


NOTES

J0154-5947

Short Period Polar

OBSERVATION DATA



OTHER NAME(S): RX J0154.0-5947; 1RXS J014100.4-675332			
FOUND: ROSAT RASS 1999			
RIGHT ASCENSION ^[1]	01 ^h 54 ^m 00.93 ^s	DECLINATION ^[1]	-59° 47' 49.10"
PARALLAXES (mas) ^[1]	3.095 ± 0.0337	DISTANCE (pc) ^[2]	320.150
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 316.711	Upper = 323.663
MAGNETIC FIELD (MG)			
...			
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.05560	1.3344	80.064	
OPTICAL (CRTS MAGNITUDE)			
...
OTHER INFORMATION			

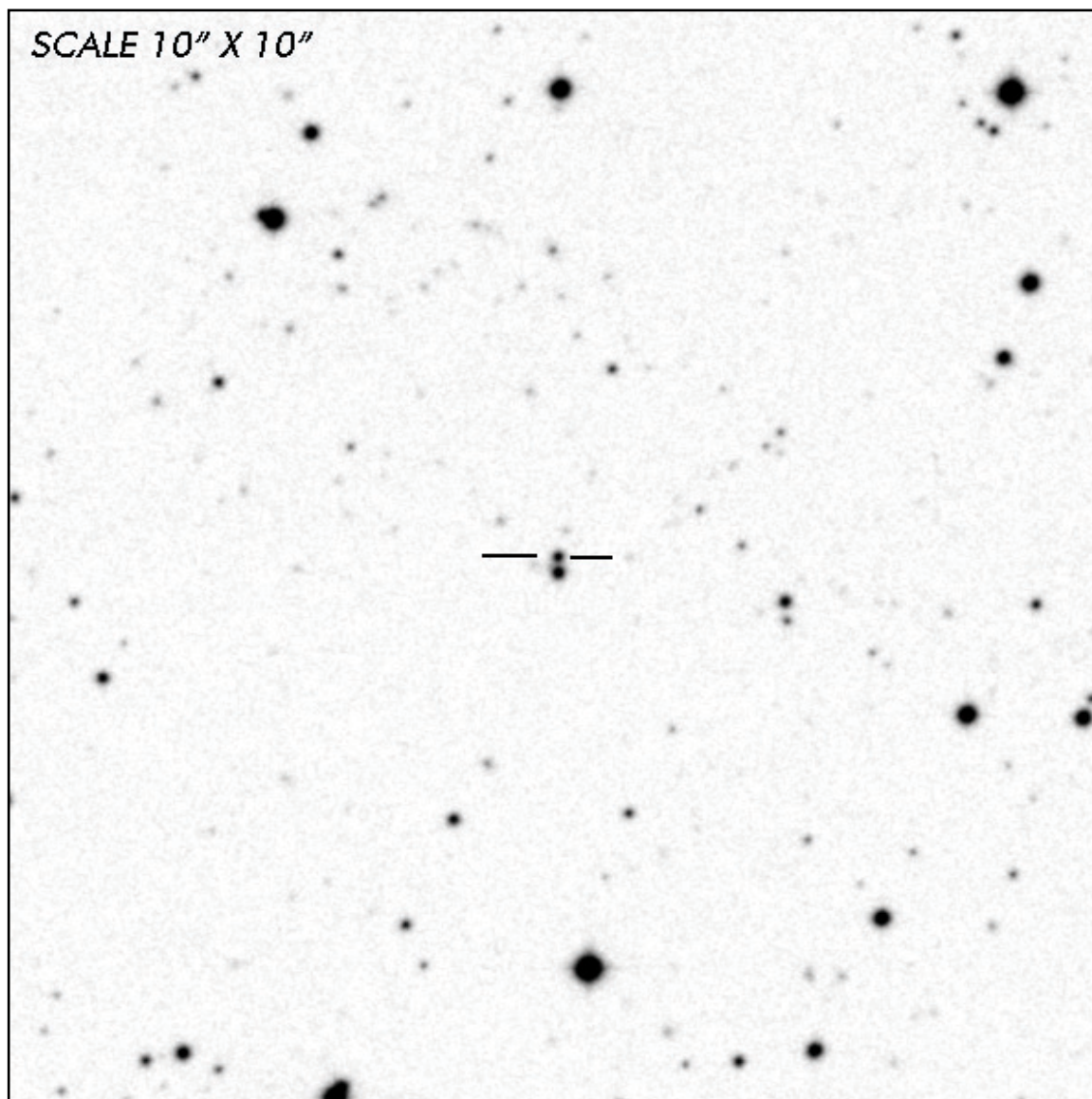
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", ApJ, Vol. 156, 58](#)
- ³ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁴ [Beuermann, K. et al. 1999, "Identificatin of Soft High Galactic Latitude RASS X-ray sources. II. Sources with PSPC count rate CR< 0.5 cts/s", A&A, Vol. 347, p. 47-54](#)
- ⁵

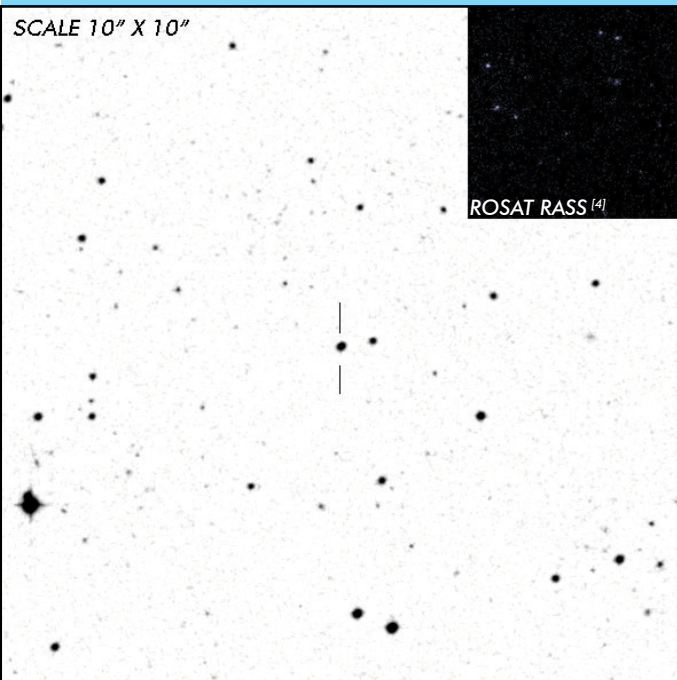


NOTES

FL Cet

Short Period Eclipsing Polar

OBSERVATION DATA

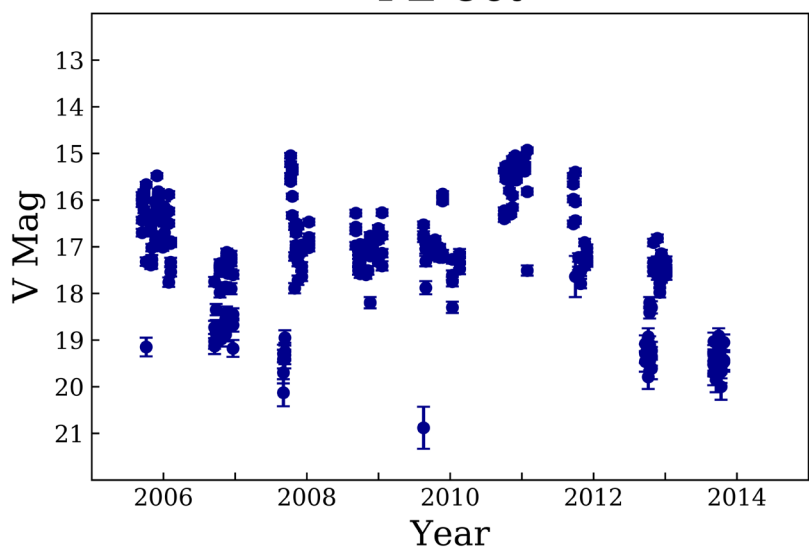


OTHER NAME(S): 1RXS J015543.3+002817; SDSSp J015543+002807			
FOUND: SDSS 2002			
RIGHT ASCENSION [1]	01 ^h 55 ^m 43.40 ^s	DECLINATION [1]	+00° 28' 07.16"
PARALLAXES (mas) [1]	3.130 ± 0.138	DISTANCE (pc) [2]	317.189
DISTANCE BOUNDARIES (pc) [2]		Lower = 303.810	Upper = 331.775
MAGNETIC FIELD (MG) [3]		B ₍₁₎ = 29	... ..
ORBITAL PERIOD & SPIN PERIOD			
DAYS		HOURS	
0.06052		1.4524	
MINUTES			
87.143			
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 15	V _{LOW} = 20.25	V _(MODE 1) = 17.5	V _(MODE 2) = 19.5
OTHER INFORMATION			

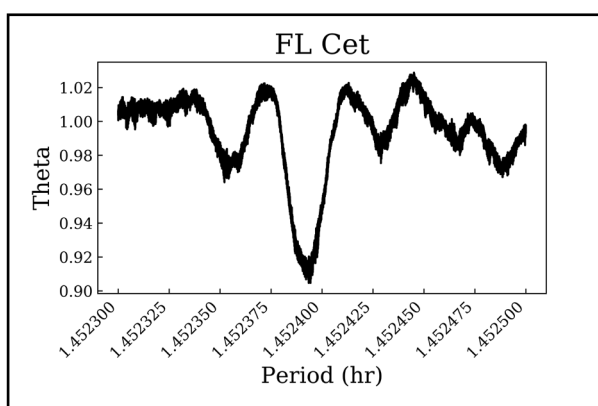
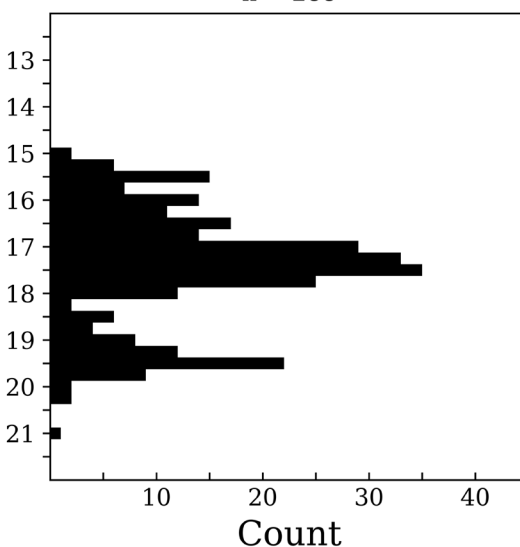
SUMMARY

CRTS PHOTOMETRY

FL Cet



n = 288



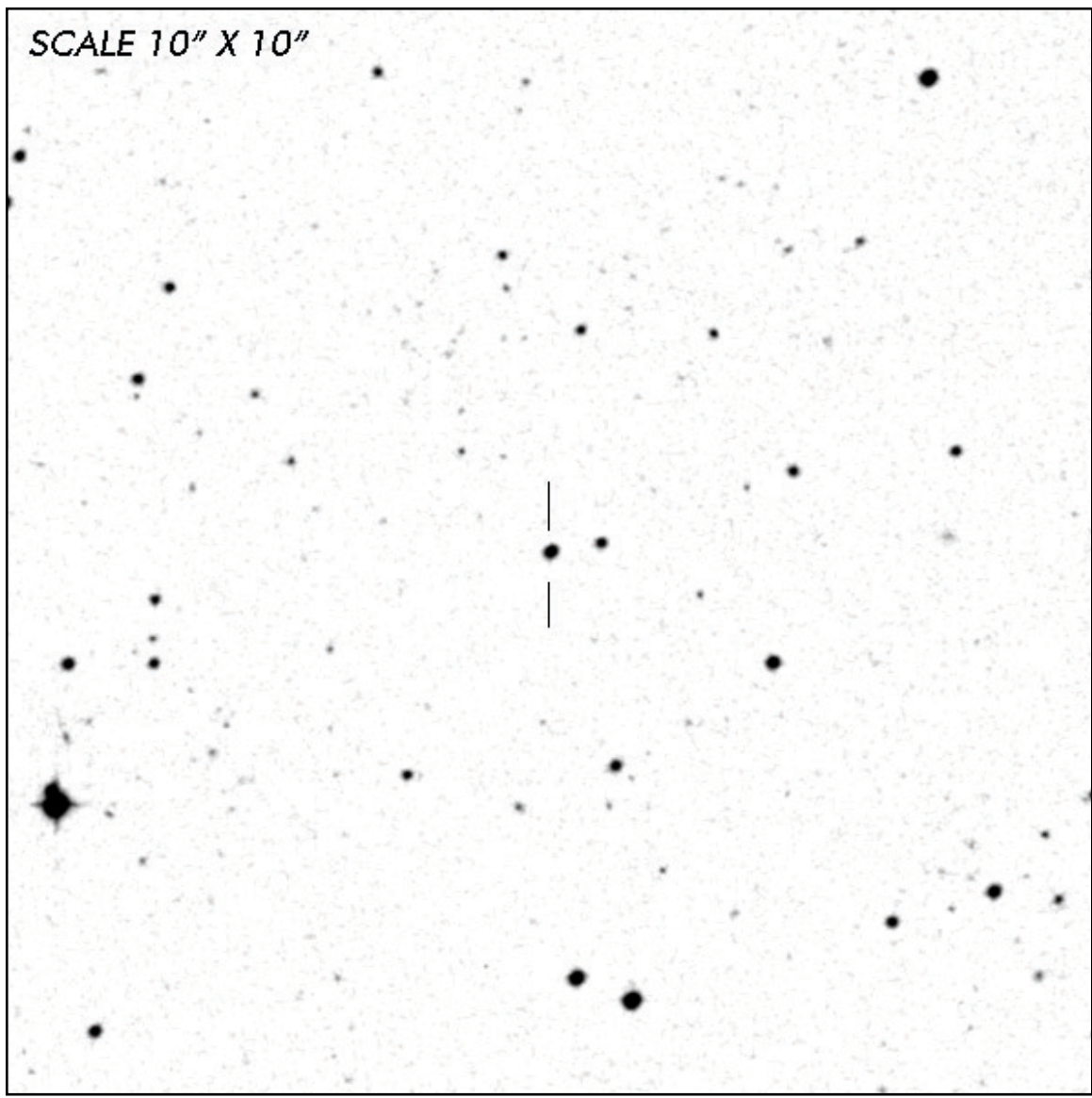


EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58](#)
- ³ [Szkody, P. et al 2002, "Cataclysmic Variables from The Sloan Digital Sky Survey. I. The First Results ", *AJ*, 123, 430-442](#)
- ⁴ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁵ [Szkody, P. et al. 2002, "Cataclysmic Variables from The Sloan Digital Sky Survey. I. The First Results", *AJ*, Vol. 123, Iss. 1, pp. 430-442](#)
- ⁶



NOTES

RIGHT ASCENSION

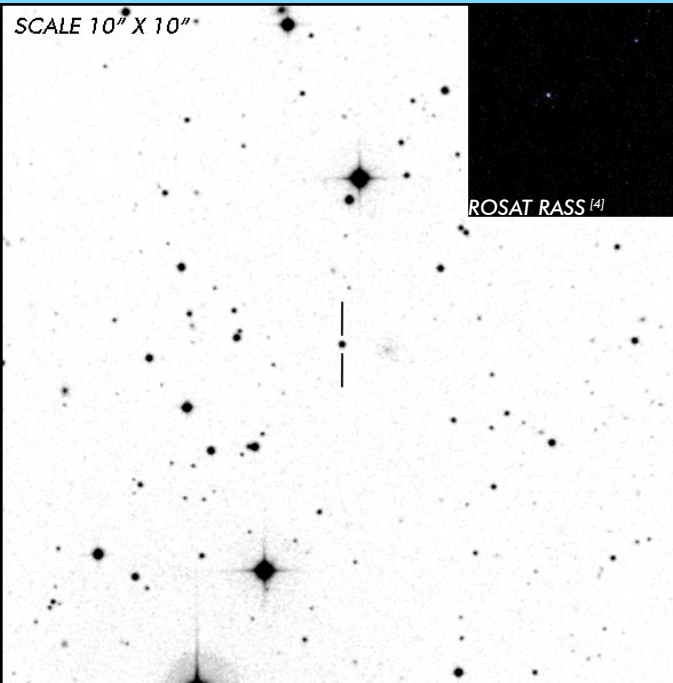
02 HOURS



AI Tri

Long Period Polar

OBSERVATION DATA

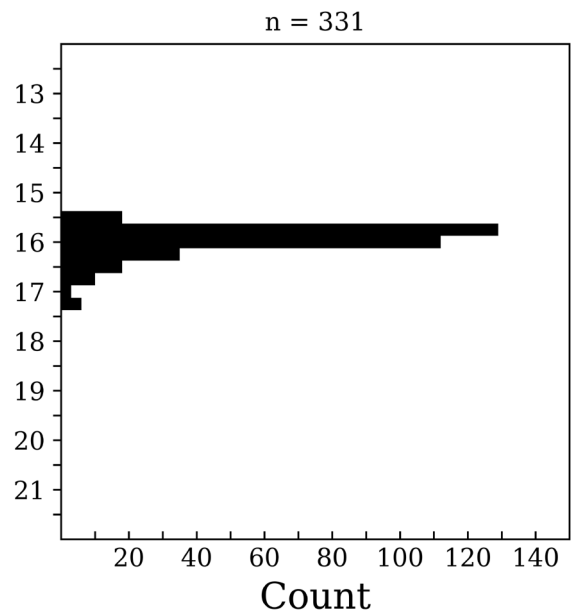
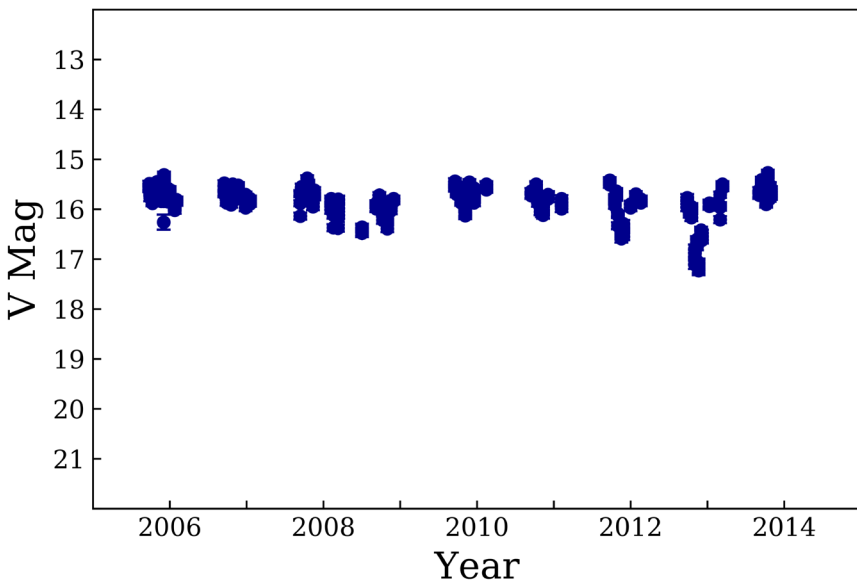


OTHER NAME(S): RX J0203.8+2959; 1RXS J020348.7+295921			
FOUND: ROSAT 1998			
RIGHT ASCENSION ^[1]	02 ^h 03 ^m 48.62 ^s	DECLINATION ^[1]	+29° 59' 25.90"
PARALLAXES (mas) ^[1]	2.205 ± 0.047	DISTANCE (pc) ^[2]	548.817
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 530.846	Upper = 568.023
MAGNETIC FIELD (MG)		B ₍₁₎ = 38	... ..
ORBITAL PERIOD & SPIN PERIOD			
DAYS		HOURS	
0.19175		4.6019	
MINUTES			
276.114			
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 15.5	V _{LOW} = 17.25	V _(MODE 1) = 15.75	...
OTHER INFORMATION			

SUMMARY

CRTS PHOTOMETRY

AI Tri



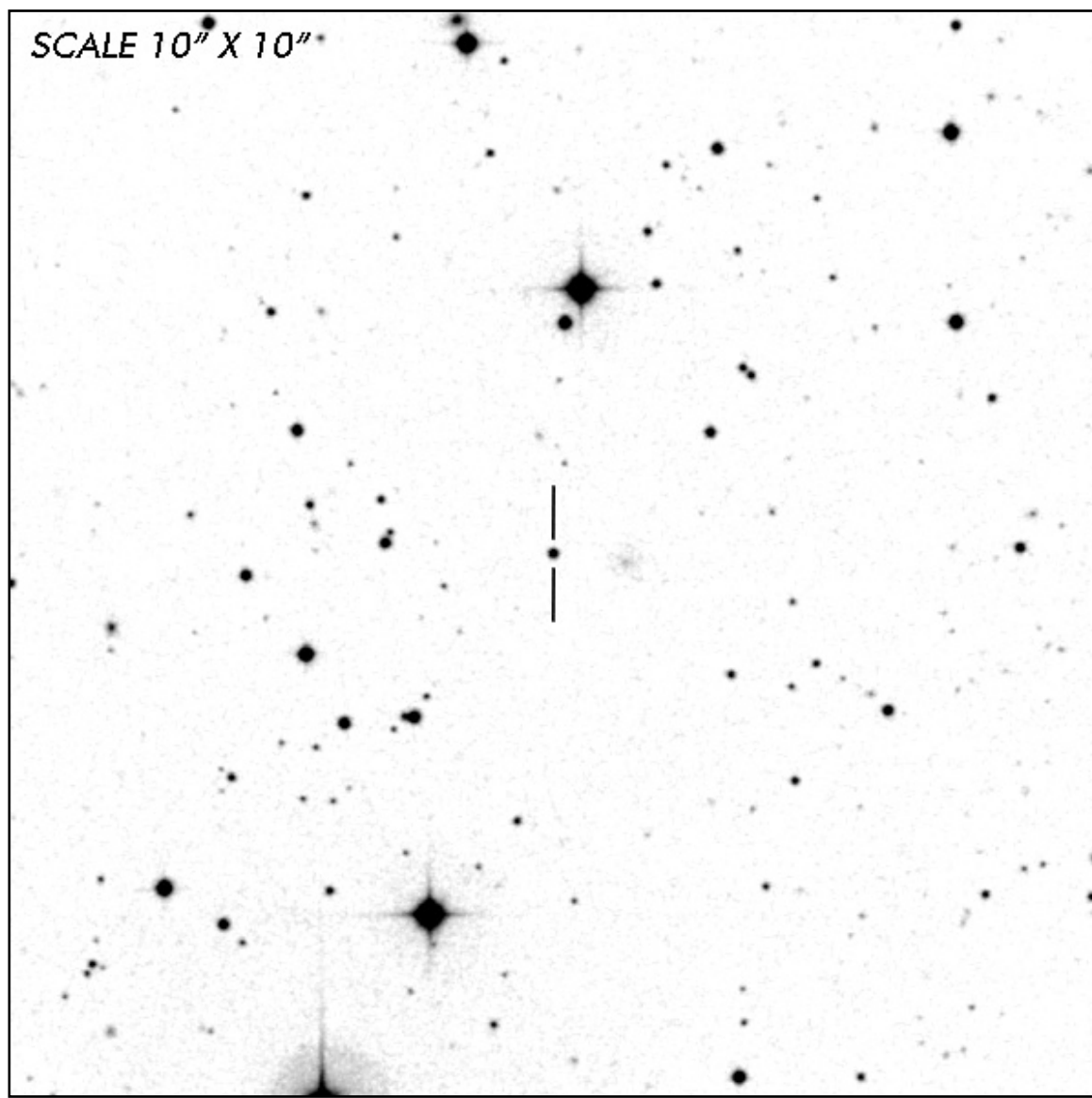
EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", ApJ, Vol. 156, 58](#)
- ³ [Schwarz, R. et al. 1998, "The new long-period AM Herculis system RX J0203.8+2959", A&A, 338, 465 \(1998\)](#)
- ⁴ [HEASARC Skyview: ROSAT All-Sky](#)

5
6

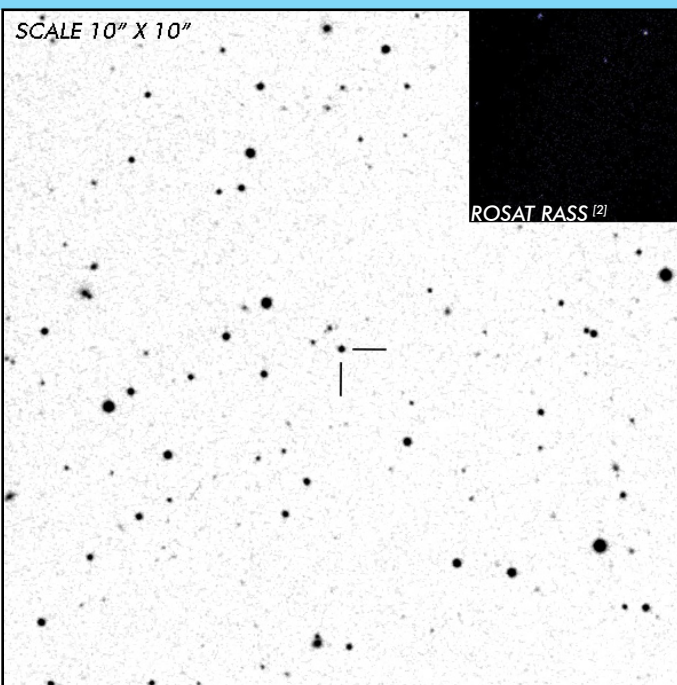


NOTES

BS Tri

Short Period Polar

OBSERVATION DATA

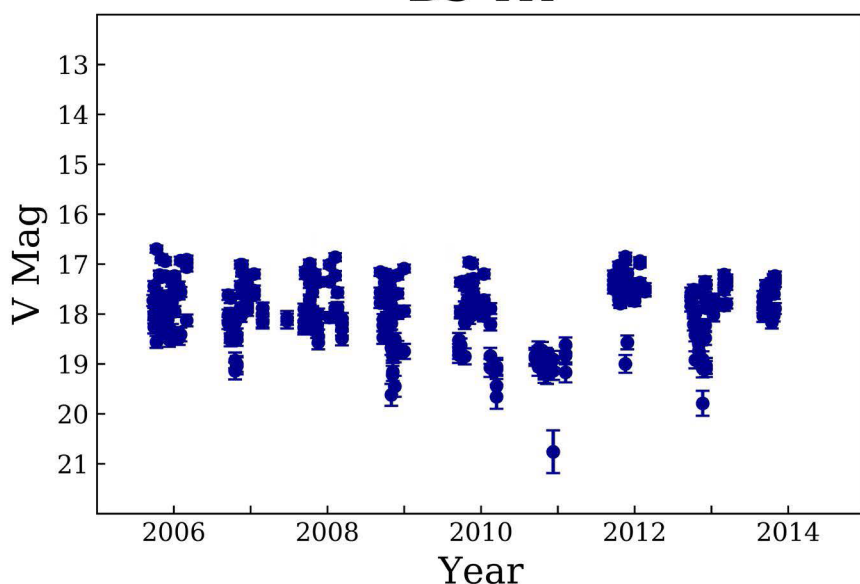


OTHER NAME(S): RX J0209.4+2832; 1RXS J020928.9+283243			
FOUND: ROSAT 2001			
RIGHT ASCENSION ^[1]	02 ^h 09 ^m 29.81 ^s	DECLINATION ^[1]	+28° 32' 29.15"
PARALLAXES (mas) ^[1]	3.668 ± 0.135	DISTANCE (pc) ^[3]	271.012
DISTANCE BOUNDARIES (pc) ^[3]		Lower = 261.379	Upper = 281.367
MAGNETIC FIELD (MG)			
...			
ORBITAL PERIOD & SPIN PERIOD			
DAYS		HOURS	
0.06686		1.6045	
MINUTES			
96.271			
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 16.75	V _{LOW} = 20	V _(MODE 1) = 17.75	...
OTHER INFORMATION			

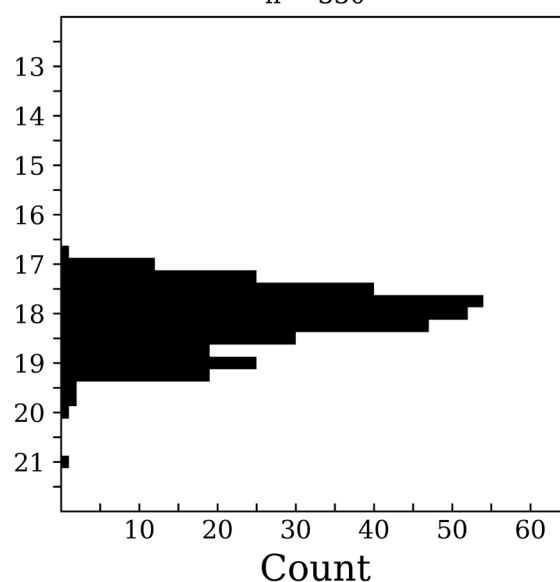
SUMMARY

CRTS PHOTOMETRY

BS Tri



n = 330



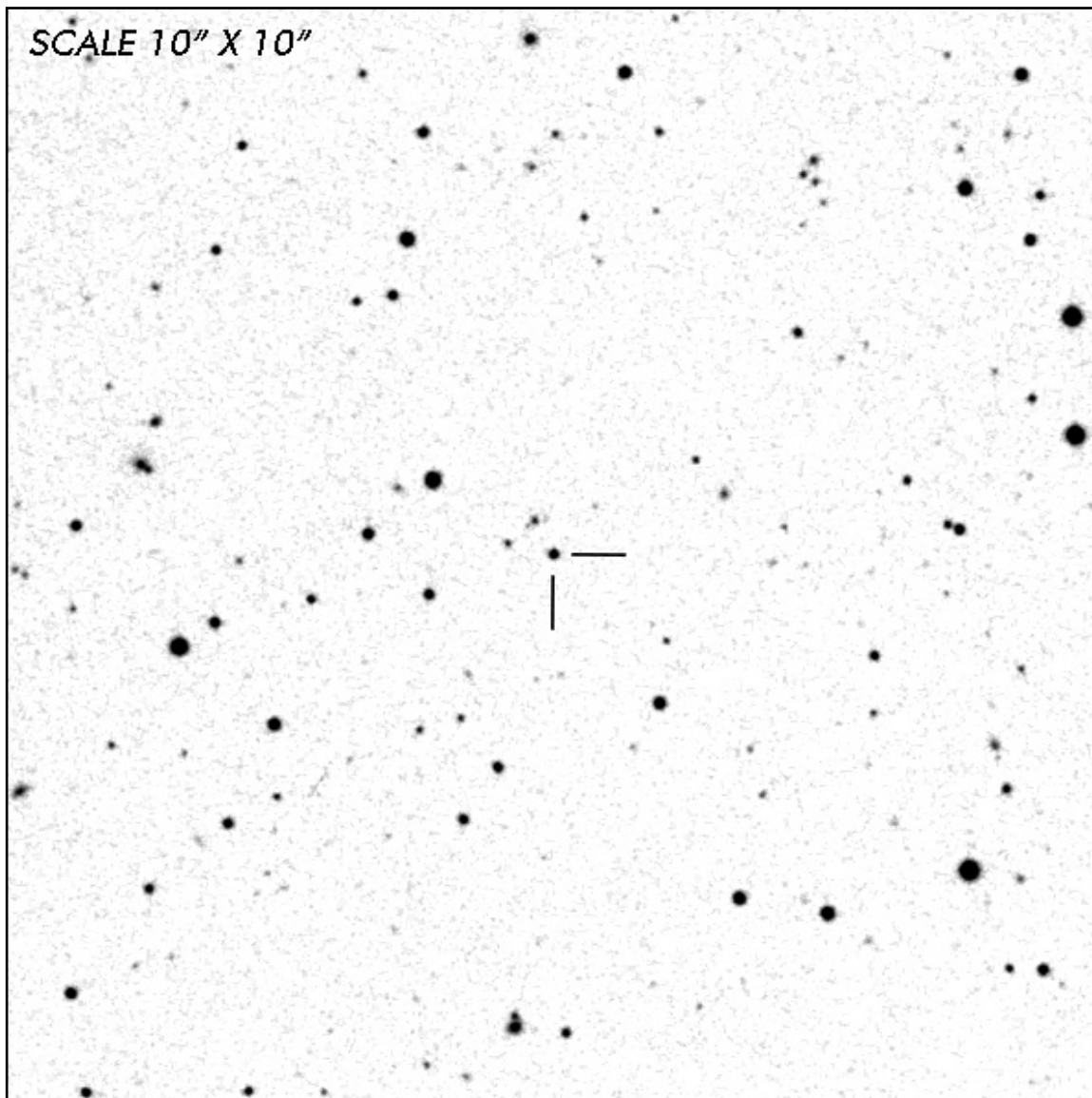
EXTERNAL LINKS





REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [HEASARC Skyview: ROSAT All-Sky](#)
- ³ [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", ApJ, Vol. 156, 58](#)
- ⁴ [Wu, J. et al. 2001, "Two Cataclysmic Variables Identified from ROSAT Bright Sources", ChJAA, Vol. 1, p. 57-59](#)
- ⁵ [Denisenko. D. V. et al. 2006, "Deep Eclipses in the Cataclysmic Variable 1RXS J020929.0+283243", AstL, Vol. 32, p. 252-256](#)
- ⁶



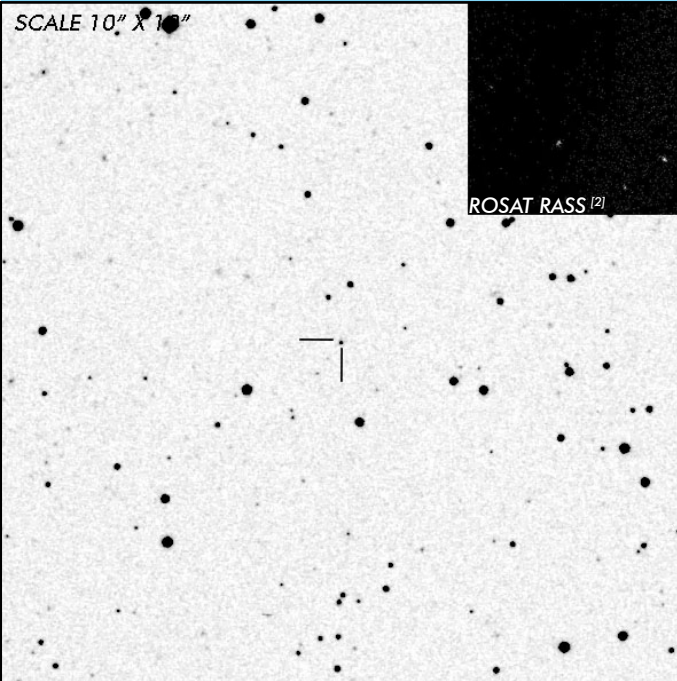
NOTES



Gaia 18aot

Short Period Polar

OBSERVATION DATA



OTHER NAME(S) [1]: 2RXS J021106.6+305426			
FOUND: Gaia 2018			
RIGHT ASCENSION [1]	02 ^h 11 ^m 07.99 ^s	DECLINATION [1]	+30° 54' 06.96"
PARALLAXES (mas)	...	DISTANCE (pc) [1]	513
DISTANCE BOUNDARIES (pc)		...	...
MAGNETIC FIELD (MG)			
...			
ORBITAL PERIOD & SPIN PERIOD			
DAYS [1]	HOURS	MINUTES	
0.078830	1.89192	113.5152	
OPTICAL (CRTS MAGNITUDE)			
...
OTHER INFORMATION			

SUMMARY

EXTERNAL LINKS



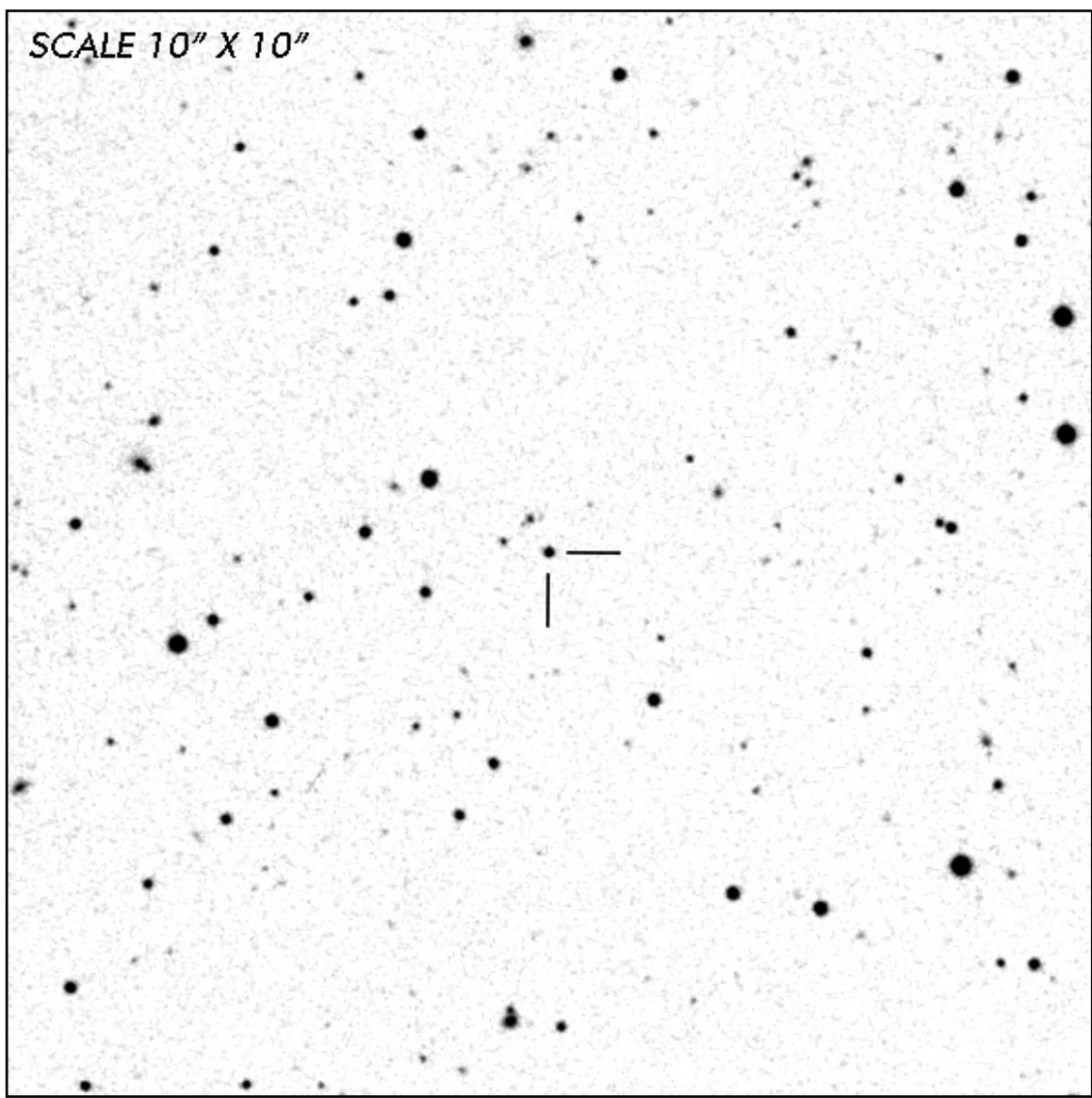
REFERENCES

¹ [Gaia Data Release 2, 2018](#)

² [HEASARC Skyview: ROSAT All-Sky](#)

³ [Thorstensen et al. 2020, "Optical Studies of 8 AM Herculis-Type Cataclysmic Variable Stars", AJ, Vol. 160, 71T](#)

⁴



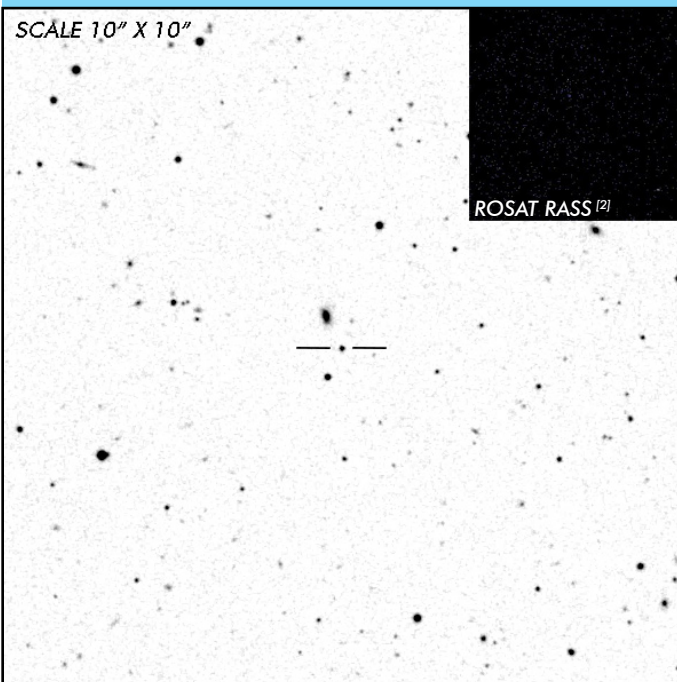
NOTES



J0227+1306

Long Period Eclipsing Polar

OBSERVATION DATA

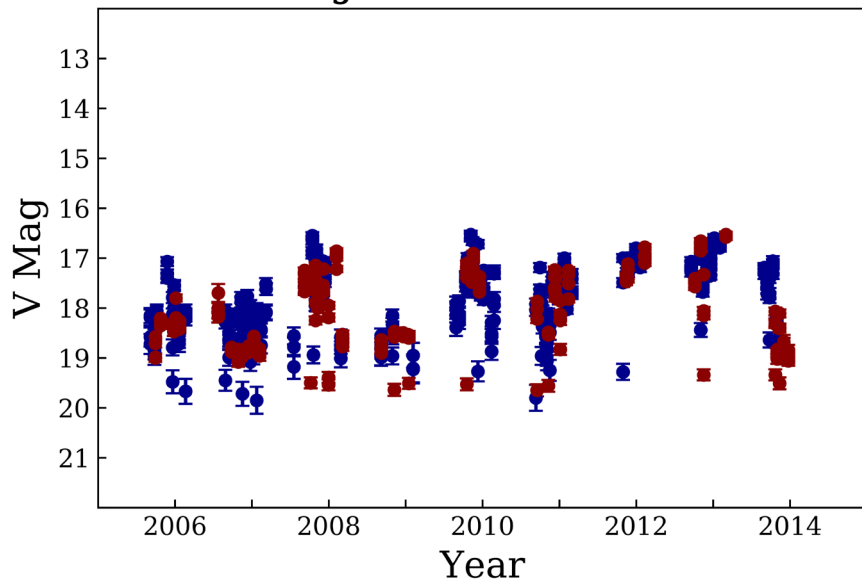


OTHER NAME(S): 2MASS J02273286+1306172			
FOUND: CRTS 2015			
RIGHT ASCENSION ^[1]	02 ^h 27 ^m 32.87 ^s	DECLINATION ^[1]	+13° 06' 17.08"
PARALLAXES (mas) ^[1]	2.127 ± 0.089	DISTANCE (pc) ^[3]	464.325
DISTANCE BOUNDARIES (pc) ^[3]		Lower = 445.862	Upper = 484.350
MAGNETIC FIELD (MG)			
...			
ORBITAL PERIOD & SPIN PERIOD			
DAYS		HOURS	
0.15780		3.7872	
MINUTES			
227.231			
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 16.75	V _{LOW} = 20	V _(MODE 1) = 17.5	...
OTHER INFORMATION			

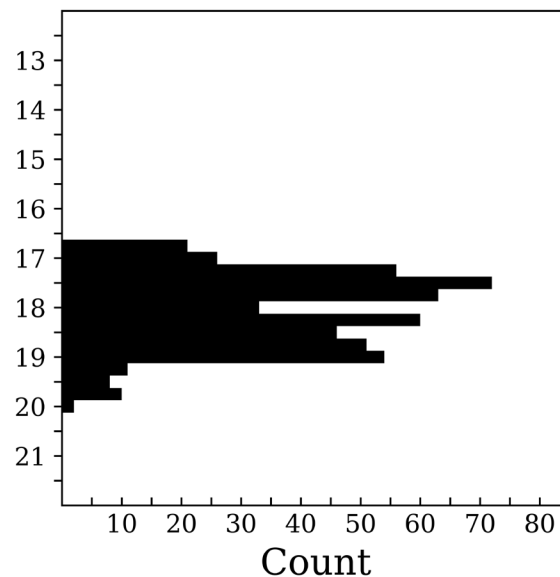
SUMMARY

CRTS PHOTOMETRY

J0227+1306



n = 513



EXTERNAL LINKS



REFERENCES

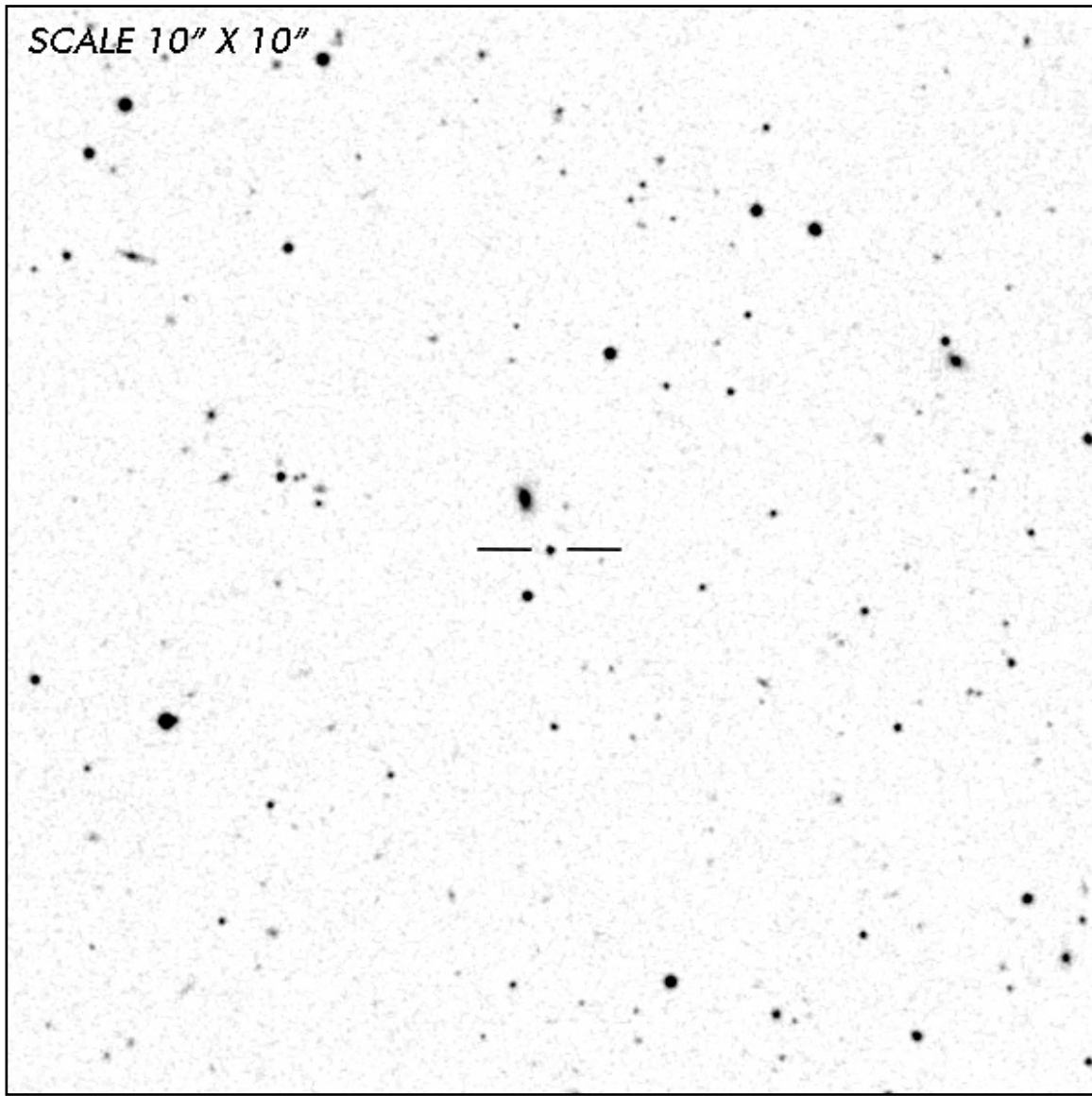
¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)

² [HEASARC Skyview: ROSAT All-Sky](#)

³ [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58](#)

⁴ [Silva, K. M. G. et al. 2015, "MLS110213:022733+130617: A New Eclipsing Polar Above the Period Gap", *MNRAS*, Vol. 451, Iss. 4, p. 4183-4192](#)

⁵

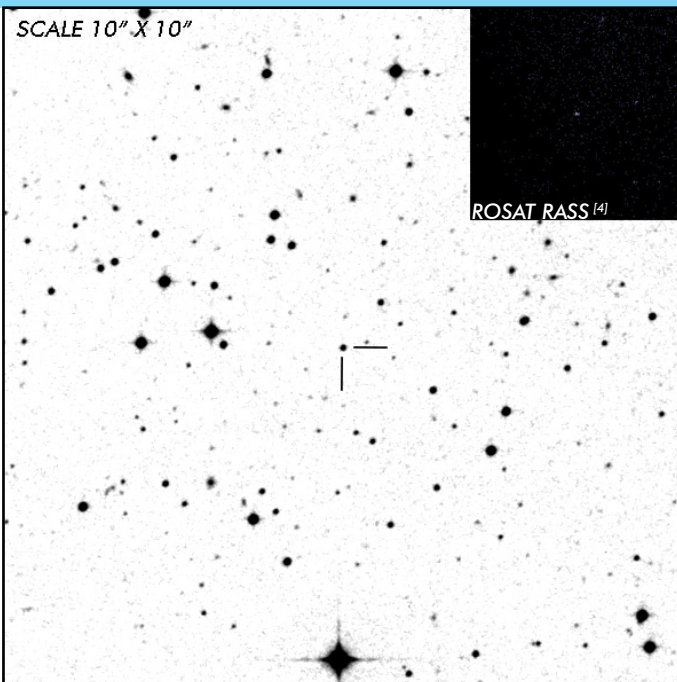


NOTES

CW Hyi

Long Period Polar

OBSERVATION DATA



OTHER NAME(S): RBS0324; 1RXS J023052.9-684203			
FOUND: ROSAT RBSC 2000			
RIGHT ASCENSION ^[1]	02 ^h 30 ^m 51.15 ^s	DECLINATION ^[1]	-68° 42' 05.44"
PARALLAXES (mas) ^[1]	1.757 ± 0.084	DISTANCE (pc) ^[2]	561.006
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 535.561	Upper = 588.938
MAGNETIC FIELD (MG) ^[3]		B ₍₁₎ = 13	... ..
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.12625	3.0300	181.800	
OPTICAL (CRTS MAGNITUDE)			
...
OTHER INFORMATION			

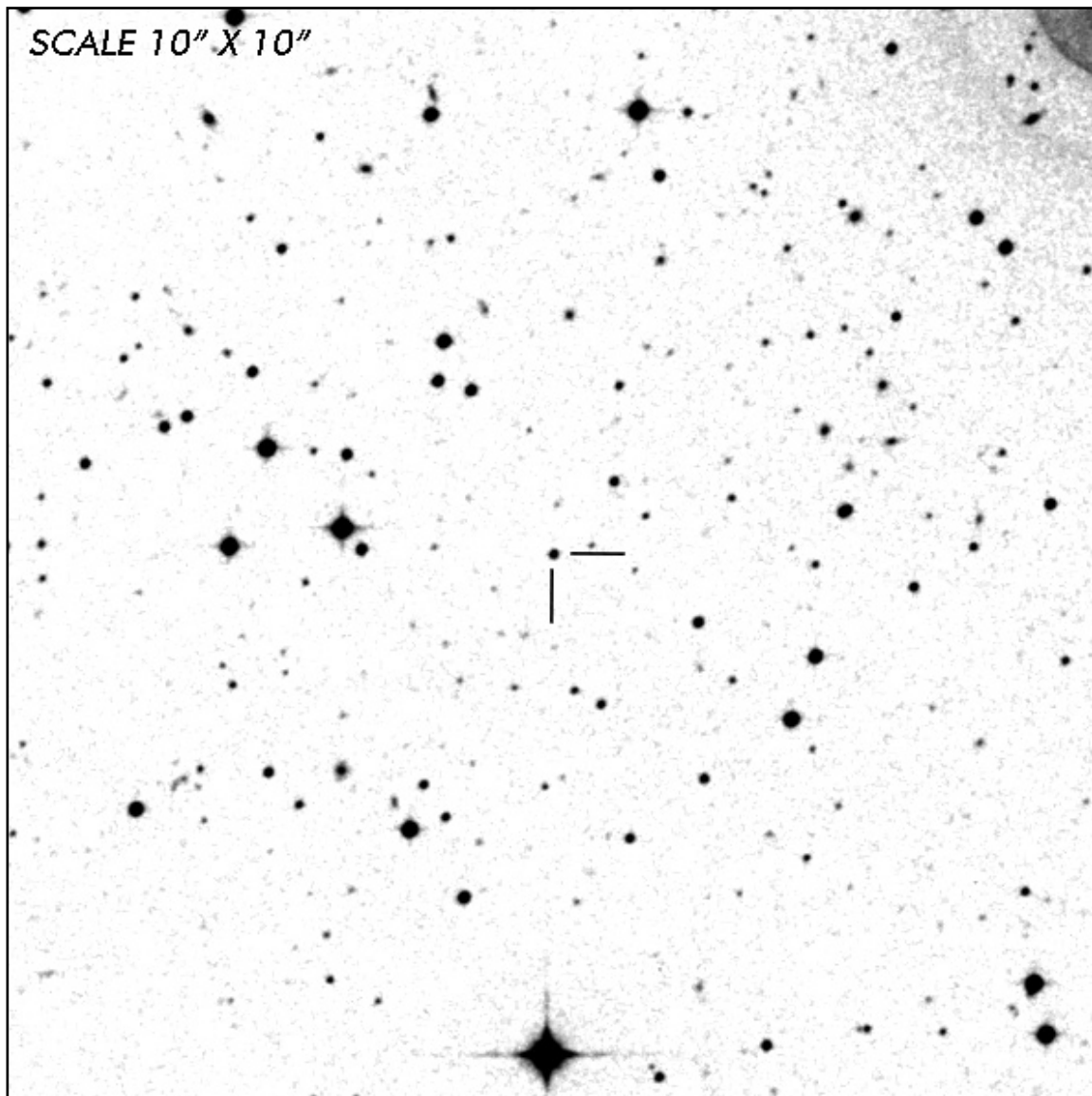
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes. IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", ApJ, Vol. 156, 58](#)
- ³ [Schwope, A. D. et al 2002, "The census of cataclysmic variables in the ROSAT Bright Survey", A&A, 396, 865-910](#)
- ⁴ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁵ [Schwope, A. et al. 2000, "The ROSAT Bright Survey: II. Catalogue of all High-Galactic Latitude RASS Sources with PSPC Countrate CR>0.2 s⁻¹", AN, Vol. 321, p. 1-52](#)
- ⁶

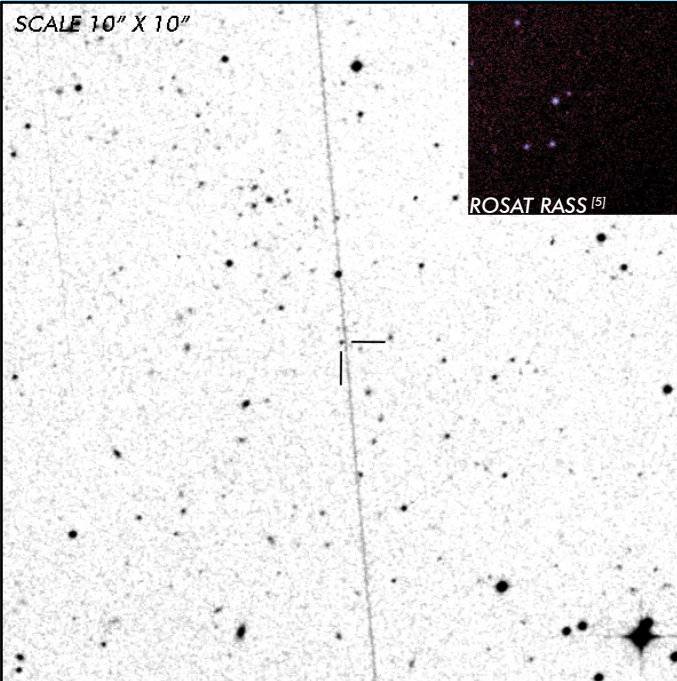


NOTES

WW Hor

Short Period Eclipsing Polar

OBSERVATION DATA

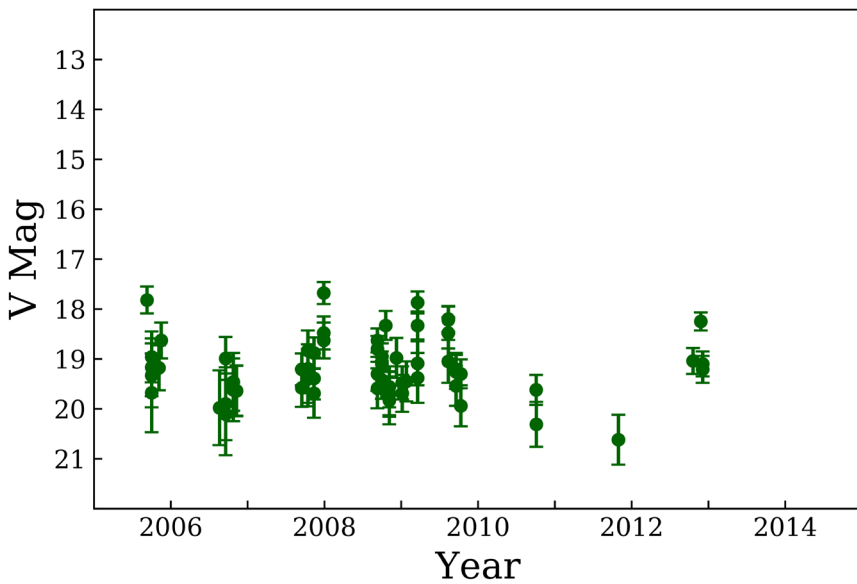


OTHER NAME(S): EXO 023432-5232.3; 1RXS J023610.9-521910			
FOUND: EXOSAT 1986			
RIGHT ASCENSION ^[1]	02 ^h 36 ^m 11.45 ^s	DECLINATION ^[1]	-52° 19' 13.5"
PARALLAXES (mas) ^[2]	3.071 ± 0.291	DISTANCE (pc) ^[3]	326.164
DISTANCE BOUNDARIES (pc) ^[3]		Lower = 296.721	Upper = 361.951
MAGNETIC FIELD (MG) ^[4]		B ₍₁₎ = 25	... ..
WD MASS (M_⊙)	1.1		
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.08020	1.9248	115.487	
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 17.75	V _{LOW} = 20.75	V _(MODE 1) = 19.75	...
OTHER INFORMATION			

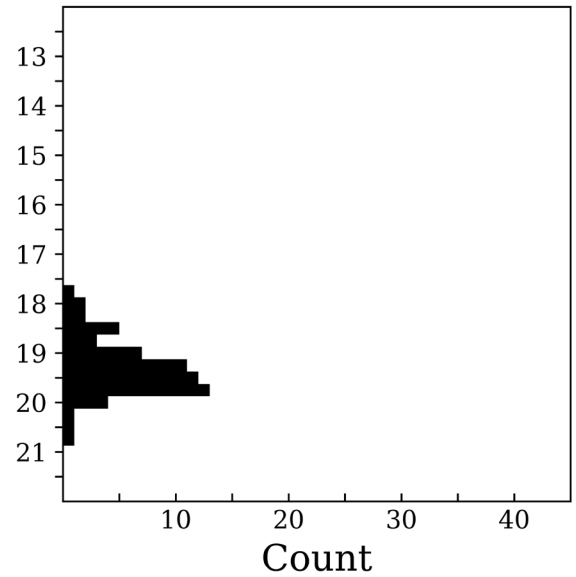
SUMMARY

CRTS PHOTOMETRY

WW Hor



n = 63



EXTERNAL LINKS

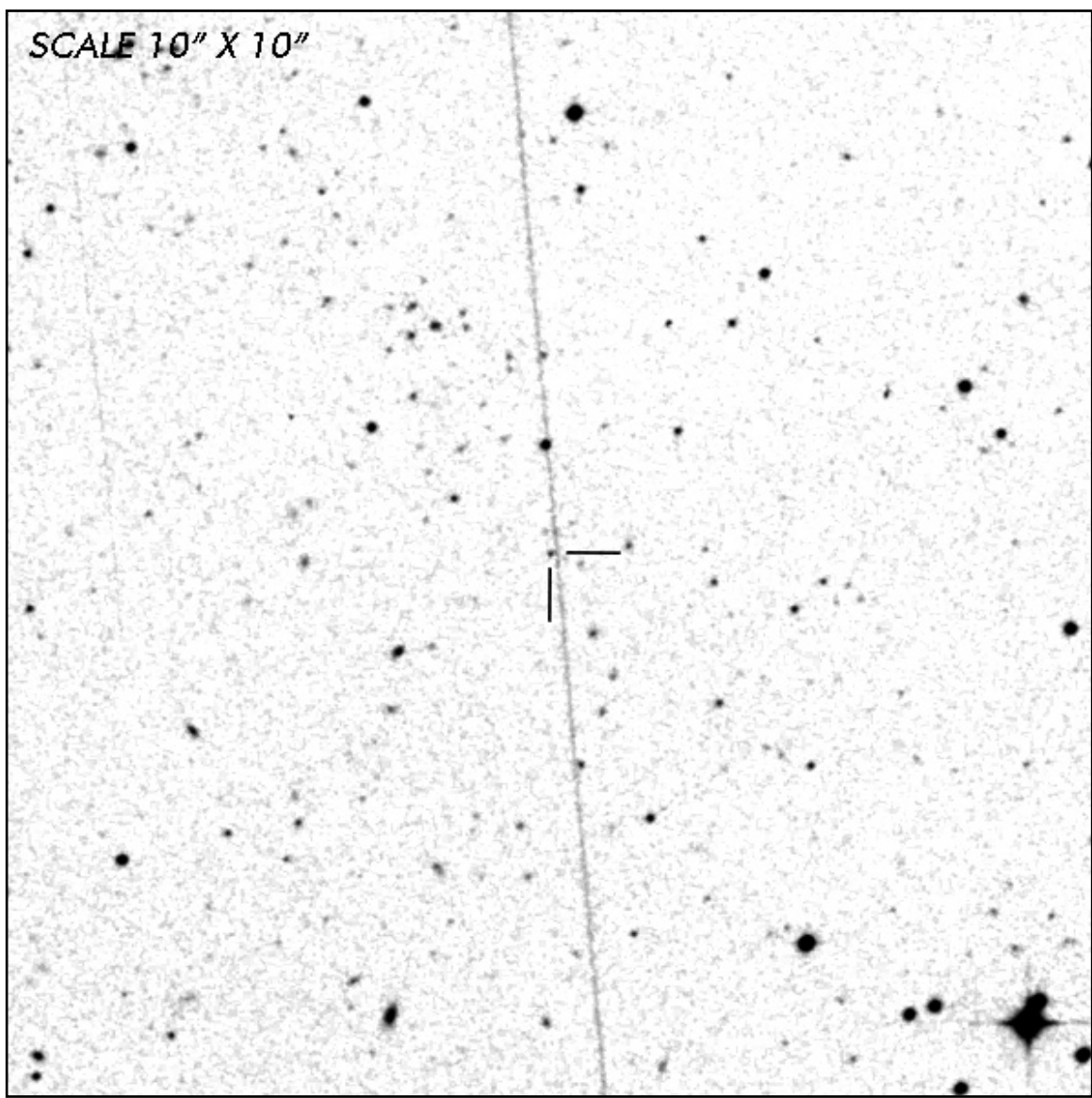




REFERENCES

- ¹ [Downes, R., et al. 1997, "A Catalog and Atlas of Catalysmic Variables - Second Edition", PASP 109, 345-439](#)
- ² [Gaia Collaboration et al. 2018b: "Summary of the Contents and Survey Properties"](#)
- ³ [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", ApJ, Vol. 156, 58](#)
- ⁴ [Bailey, J. et al 1988, "EXO 023432-5232.3 - An eclipsing AM Herculis binary", MNRAS, 234, 19-27](#)
- ⁵ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁶ [Beuermann, K. et al. 1986, "EXO 023432-5232.3", IAU Circ., No. 4289, #2](#)

7
8



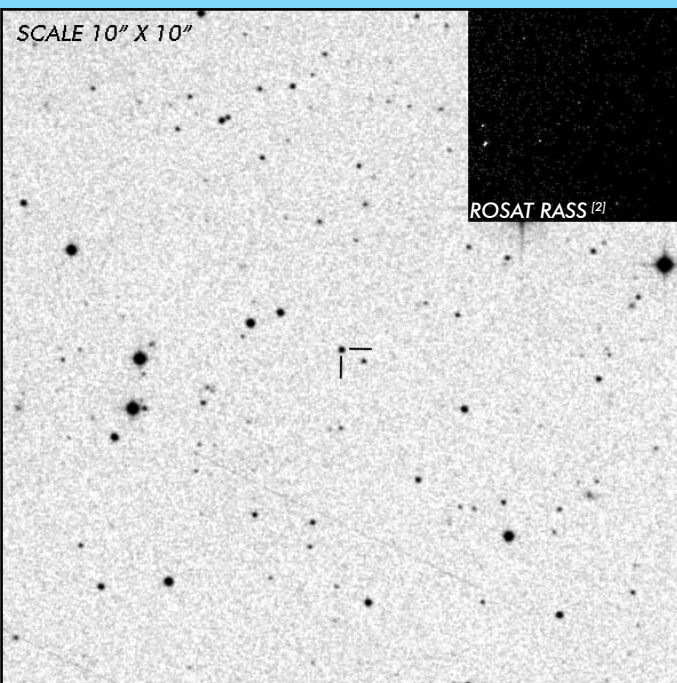
NOTES



J0240+1952

Eclipsing Long Period Intermediate Polar

OBSERVATION DATA



OTHER NAME(S): LAMOST J024048.51+195226.9					
FOUND: LAMOST 2020					
RIGHT ASCENSION ^[1]		02 ^h 40 ^m 48.54 ^s		DECLINATION ^[1]	
				+19° 52' 27.05"	
PARALLAXES (mas)			1.596 ± 0.086		
DISTANCE (pc)			627		
DISTANCE BOUNDARIES (pc)			Lower = 591		Upper = 663
MAGNETIC FIELD (MG)			B ₍₁₎ = 7.8		...
ORBITAL PERIOD (P_o)			SPIN PERIOD (P_s)		
DAYS	HOURS	MINUTES	HOURS	MINUTES	SECONDS
0.3057	7.336	440.1			
OPTICAL (CRTS MAGNITUDE)					
...
OTHER INFORMATION					

SUMMARY

CRTS PHOTOMETRY

EXTERNAL LINKS

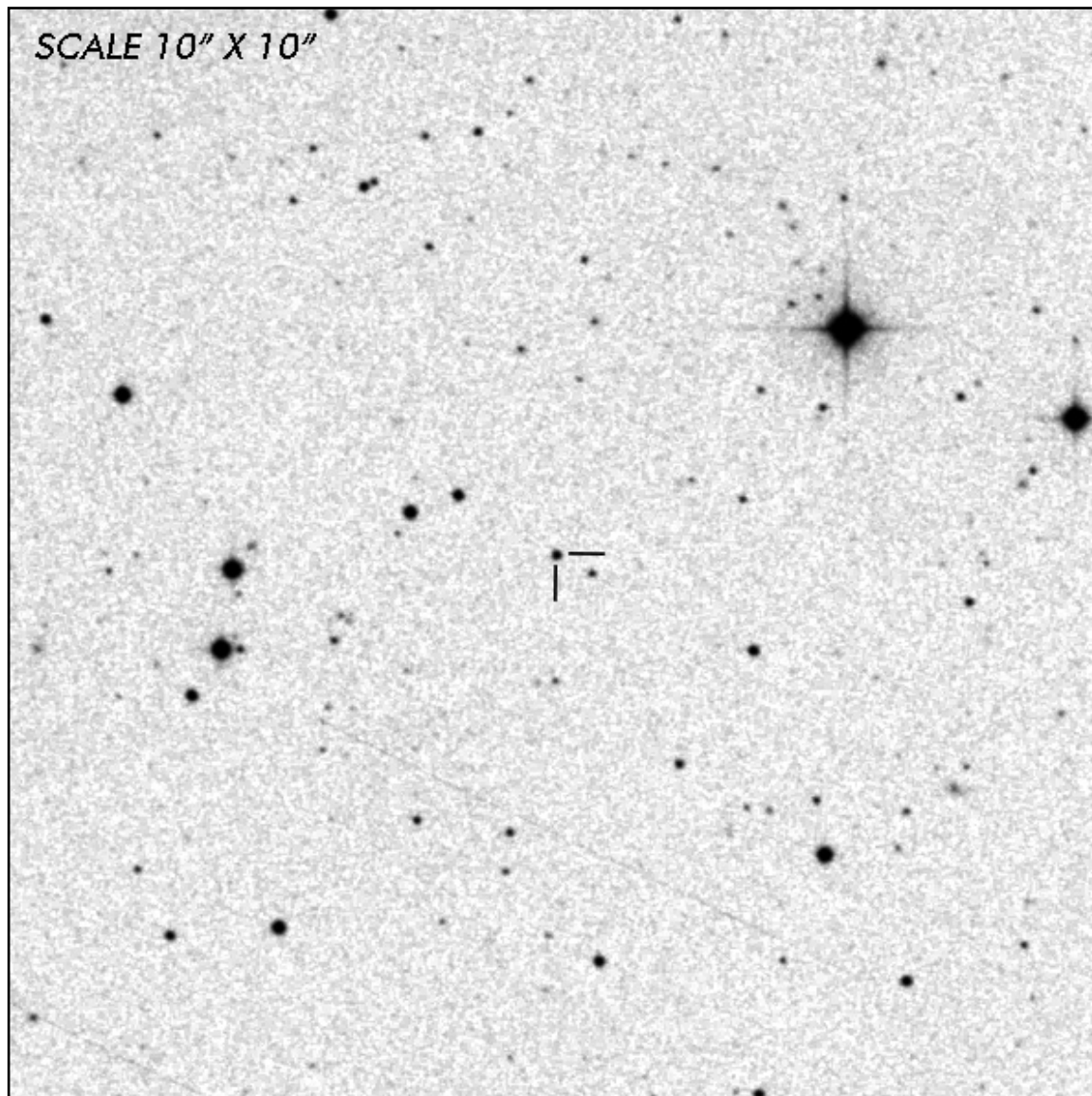


REFERENCES

¹ Thorstensen, John R. 2020, "Follow-up Studies of Five Cataclysmic Variable Candidates Discovered by LAMOST", *ApJ*, Vol. 160, Iss. 4, pp. 15

² HEASARC Skyview: ROSAT All-Sky

³



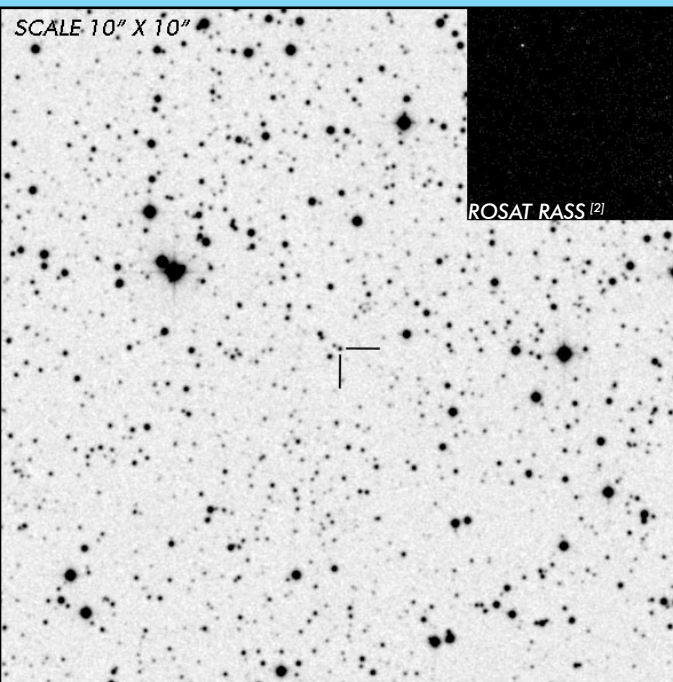
NOTES



PT Per

Short Period Polar

OBSERVATION DATA



OTHER NAME(S): 3XMM J024251.2+564131			
FOUND: EXOSAT 1993			
RIGHT ASCENSION ^[1]	02 ^h 42 ^m 51.19 ^s	DECLINATION ^[1]	+56° 41' 31.25"
PARALLAXES (mas)	5.412 ± 0.132	DISTANCE (pc) ^[1]	185
DISTANCE BOUNDARIES (pc)		Lower = 181	Upper = 190
MAGNETIC FIELD (MG)		B ₍₁₎ = ~25	... ..
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES ^[3]	
0.05625	1.35	81.00(4)	
OPTICAL (CRTS MAGNITUDE)			
...
OTHER INFORMATION			

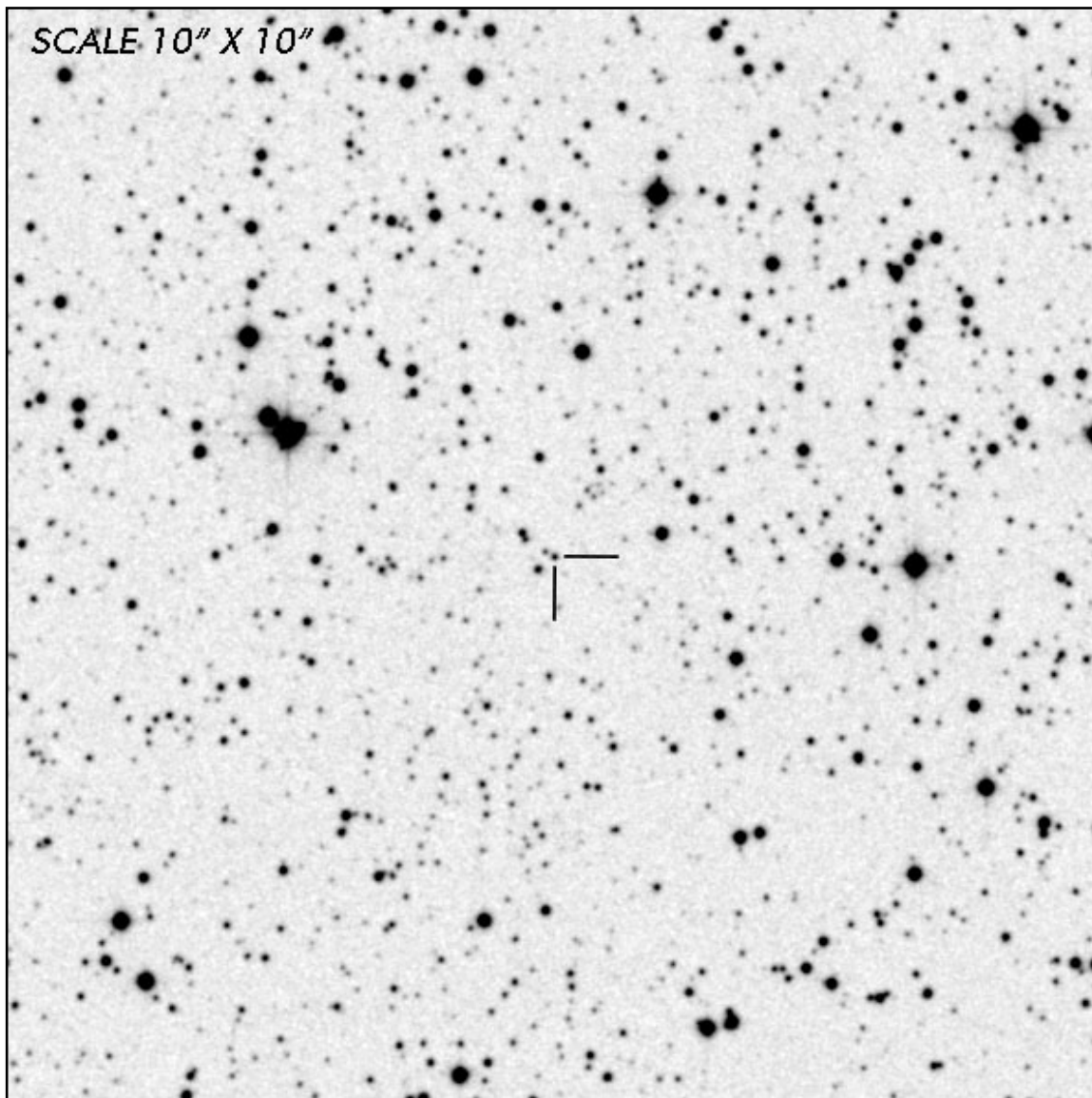
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Data Release 2, 2018](#)
- ² [HEASARC Skyview: ROSAT All-Sky](#)
- ³ [Thorstensen et al. 2020, "Optical Studies of 8 AM Herculis-Type Cataclysmic Variable Stars", AJ, Vol. 160, 71T](#)
- ⁴ [Downes, R. et al. 1993, "A Catalog of Cataclysmic Variables", PASP, Vol. 105, p. 127](#)
- ⁵



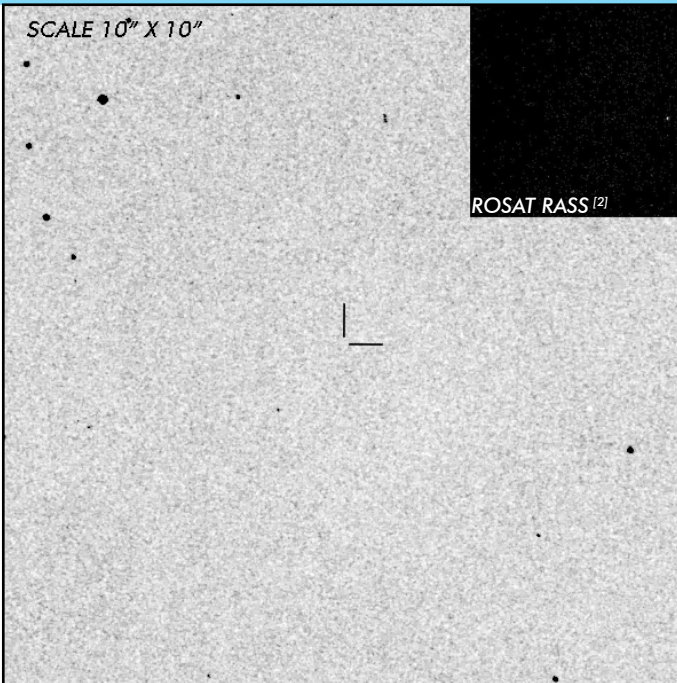
NOTES



XY Ari

Long Period Intermediate Polar

OBSERVATION DATA

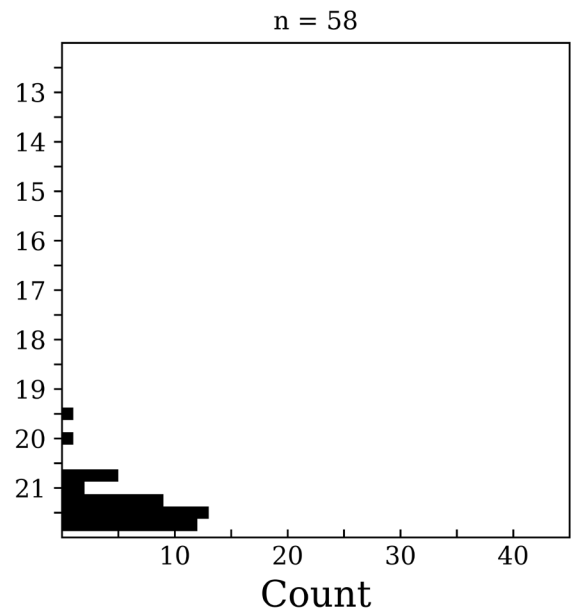
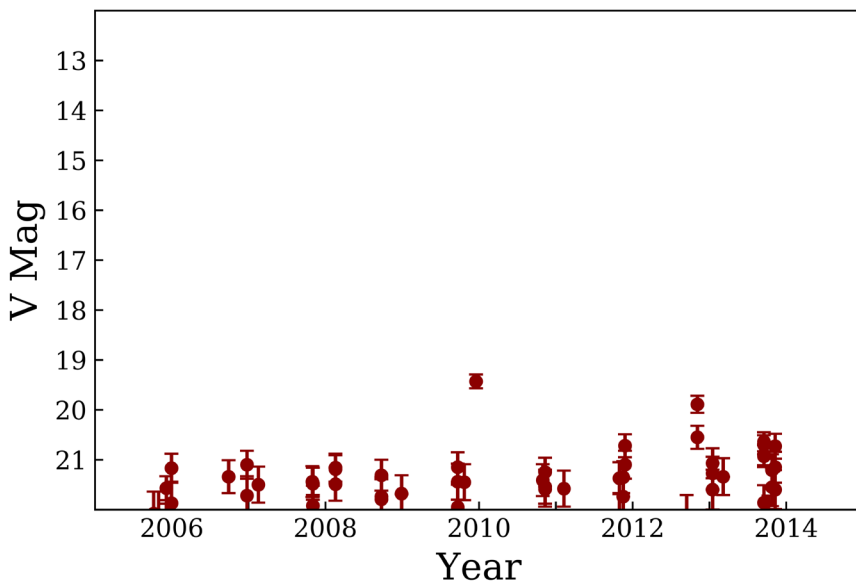


OTHER NAME(S): H 0253+193; SDSS J025608.18+192634.1					
FOUND: HEAO 1979					
RIGHT ASCENSION ^[1]		02 ^h 56 ^m 08.19 ^s	DECLINATION ^[1]		+19° 26' 34.12"
PARALLAXES (mas)			DISTANCE (pc)		
DISTANCE BOUNDARIES (pc)			... ..	
MAGNETIC FIELD (MG)			... ..	
ORBITAL PERIOD (P _o)			SPIN PERIOD (P _s) ^[2]		
DAYS	HOURS	MINUTES	HOURS	MINUTES	SECONDS
0.2527	6.065	363.9	0.05731	3.43833	206.3
OPTICAL (CRTS MAGNITUDE)					
V _{HIGH} = 20.75	V _{LOW} = 21.75	V _(MODE 1) = 21.5	...		
OTHER INFORMATION					

SUMMARY

CRTS PHOTOMETRY

XY Ari



EXTERNAL LINKS



REFERENCES

¹ [Adelman-McCarthy J.K., et al. \(2009\): *The SDSS Photometric Catalog, Release 7*](#)

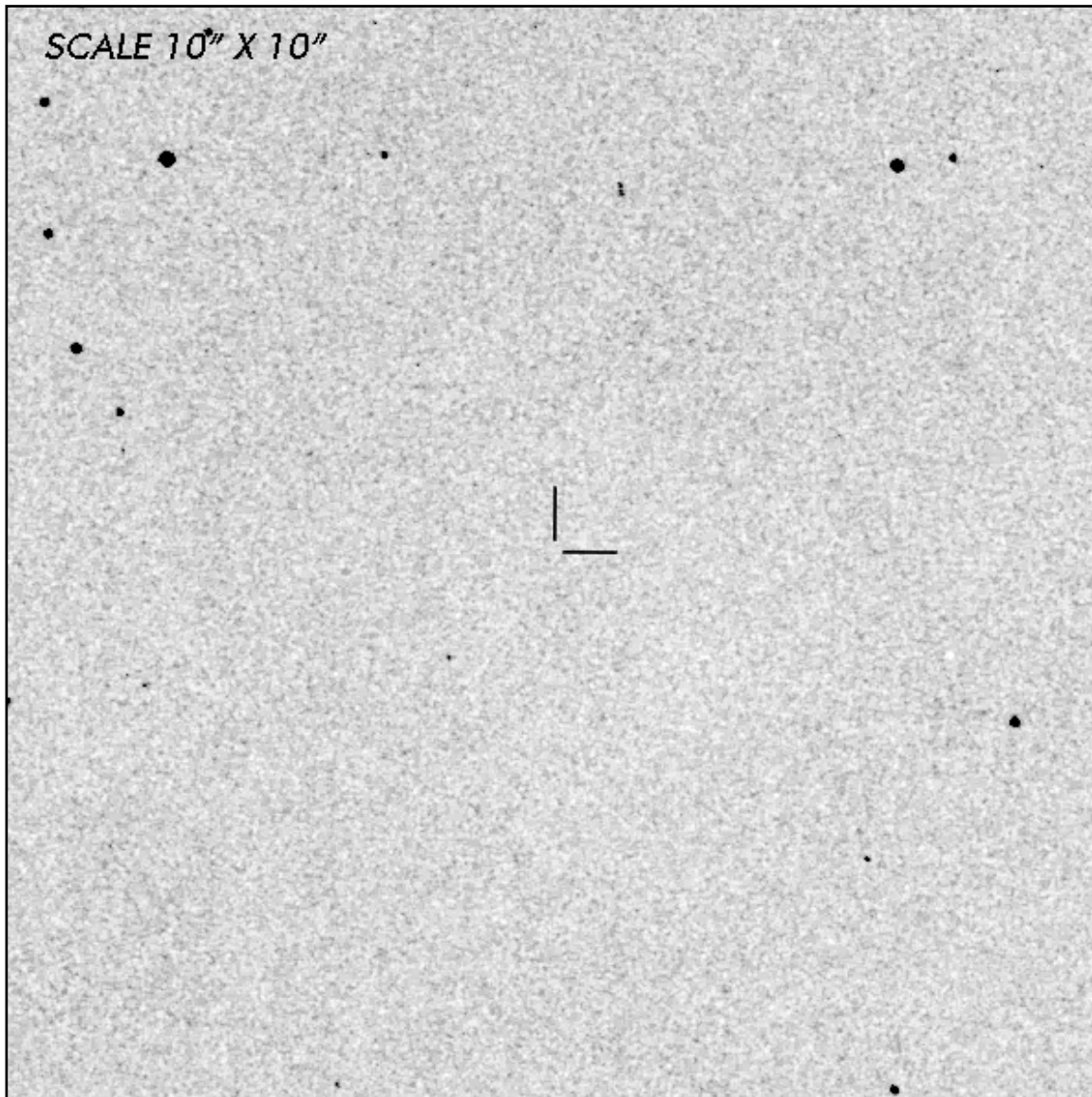
² [HEASARC Skyview: ROSAT All-Sky](#)

³ [Koji, Mukai 2014, *The Catalog of IPs and IP Candidates by Right Ascension*](#)

⁴ [Marshall, F. E. et al. 1979, "New Hard X-ray Sources Observed with HEAO A-2", *ApJS*, Vol. 40, p. 657-666](#)

⁵

⁶

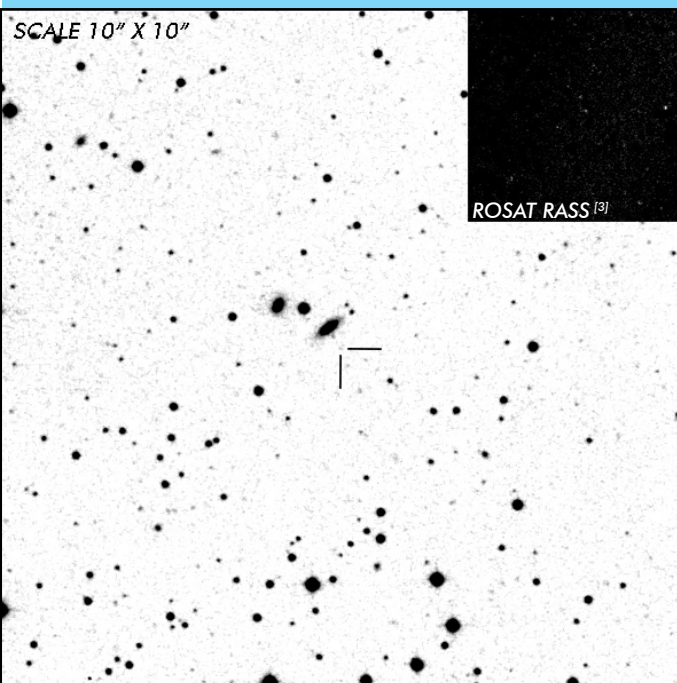


NOTES

J0257+3337

Short Period Polar

OBSERVATION DATA



OTHER NAME(S): SDSS J025737.74+333750.5; J0257+3337			
FOUND: ROSAT RBSC 2000			
RIGHT ASCENSION ^[1]	02 ^h 57 ^m 37.75 ^s	DECLINATION ^[1]	+33° 37' 50.52"
PARALLAXES (mas) ^[1]	1.405 ± 0.244	DISTANCE (pc) ^[2]	708.442
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 595.270	Upper = 871.645
MAGNETIC FIELD (MG)			
...			
ORBITAL PERIOD & SPIN PERIOD			
DAYS		HOURS	
0.06251		1.5002	
MINUTES			
90.012			
OPTICAL (CRTS MAGNITUDE)			
...		...	
OTHER INFORMATION			

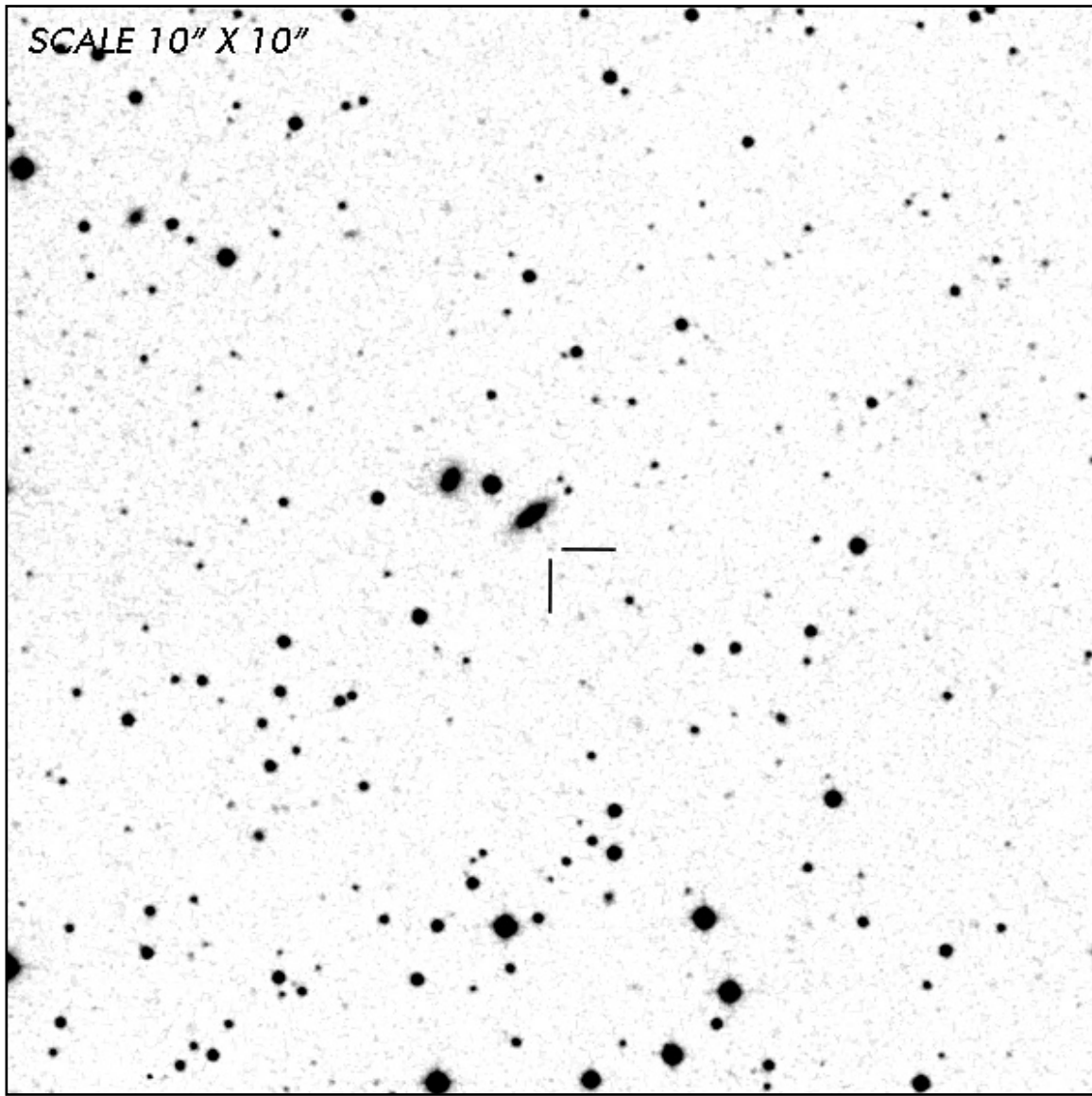
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", ApJ, Vol. 156, 58](#)
- ³ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁴ [Vladimirov, V. et al. 2014, "Three Cataclysmic Variables discovered by MASTER", Astro. Tel, No. 5726](#)
- ⁵



NOTES

RIGHT ASCENSION

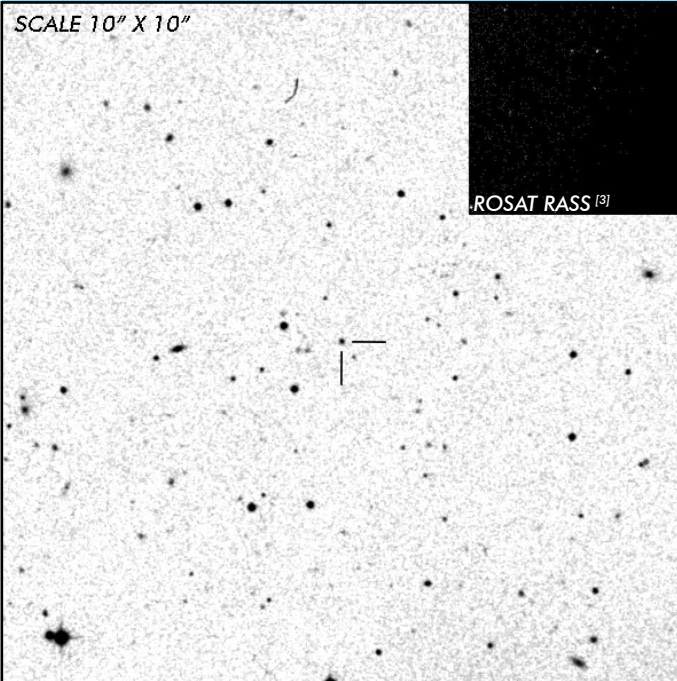
03 HOURS



J0303+0054

Long Period Pre-Polar

OBSERVATION DATA



OTHER NAME(S): US 3566; 2MASS J03030835+0054438			
FOUND: 1984			
RIGHT ASCENSION ^[1]	03 ^h 03 ^m 08.36 ^s	DECLINATION ^[1]	+00° 54' 43.93"
PARALLAXES (mas) ^[1]	8.137 ± 0.162	DISTANCE (pc) ^[2]	122.5
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 120.13	Upper = 125.04
MAGNETIC FIELD (MG) ^[4]		...	B _{zee} = 8 ...
WD MASS (M _⊙)	0.84		
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.13444	3.2267	193.600	
OPTICAL (CRTS MAGNITUDE)			
...
OTHER INFORMATION			
TEMP_{EFF} (K)	~9150		

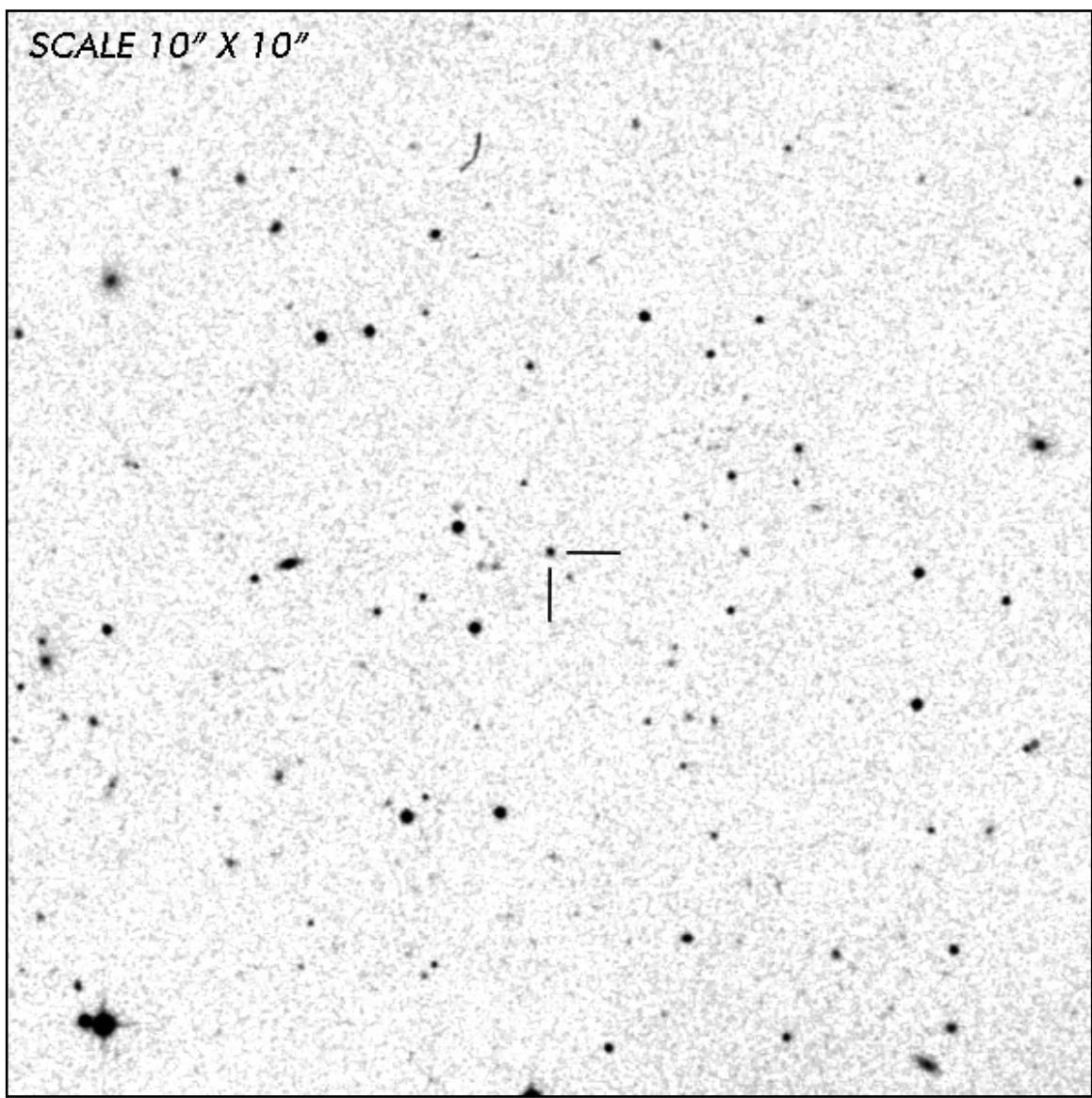
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ Gaia Collaboration et al. (2018b): Summary of the contents and survey properties
- ² Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58
- ³ HEASARC Skyview: ROSAT All-Sky
- ⁴ Parsons, S. G. et al. 2013, "Magnetic White Dwarfs in Post-Common-Envelope Binaries", *MNRAS*, Vol. 502, Iss. 3, pp. 4305-4327
- ⁵ Eisenstein, D. J. et al. 2006, "A Catalog of Spectroscopically Confirmed White Dwarfs from the Sloan Digital Sky Survey Data Release 4", *ApJS*, Vol. 167, Iss. 1, pp. 40-58



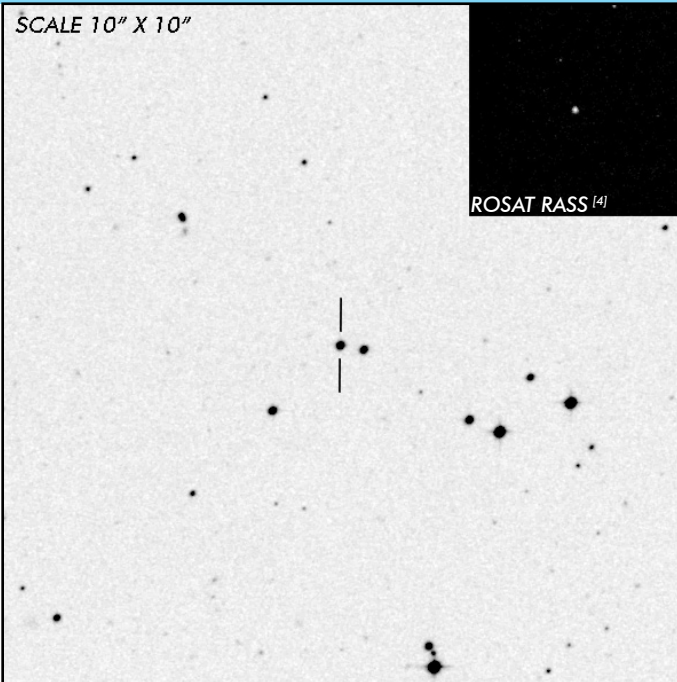
NOTES



EF Eri

Short Period Pre-Polar

OBSERVATION DATA

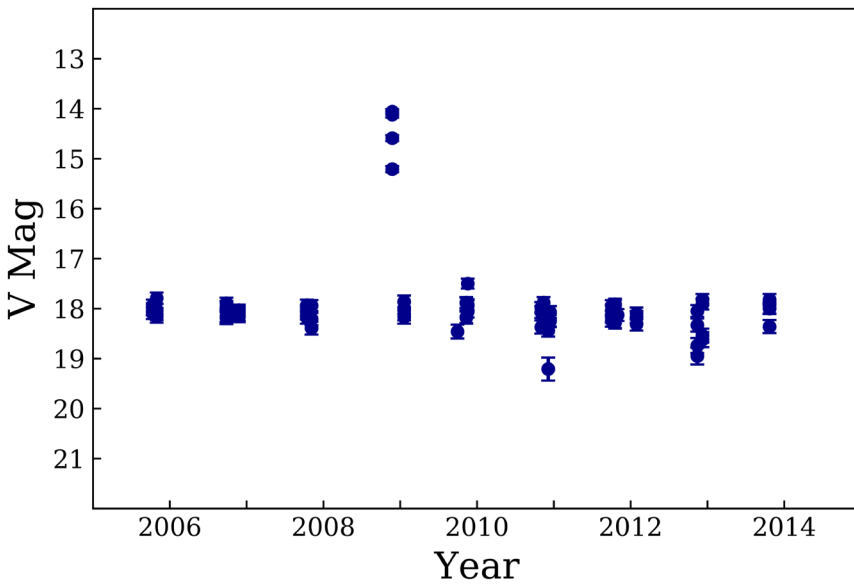


OTHER NAME(S): 2A 0311-227; RX J0314.2-2236			
FOUND: AO 1979			
RIGHT ASCENSION ^[1]	03 ^h 14 ^m 13.25 ^s	DECLINATION ^[1]	-22° 35' 42.92"
PARALLAXES (mas) ^[1]	6.266 ± 0.271	DISTANCE (pc) ^[2]	159.322
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 152.670	Upper = 166.569
MAGNETIC FIELD (MG) ^[3]		B ₍₁₎ = 21	B ₍₂₎ = 17 ... B _{zeem} = 15
WD Mass (☉)	0.9		
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.05627	1.3504	81.023	
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 17.75	V _{LOW} = 19.25	V ₍₁₎ = 18.25	...
OTHER INFORMATION			
TEMP_{EFF} (K)	9500		

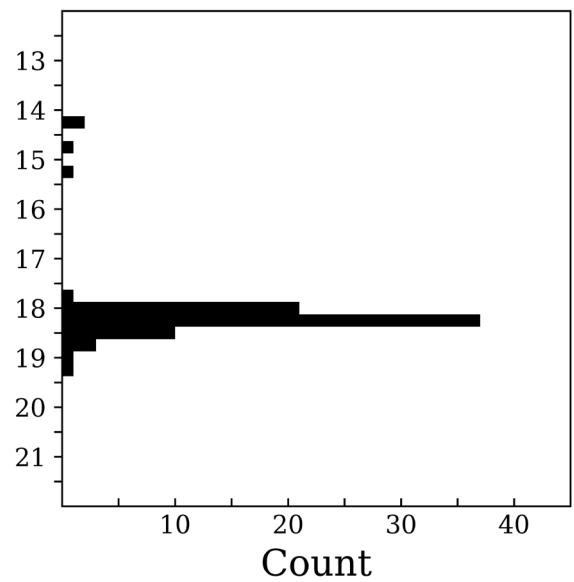
SUMMARY

CRTS PHOTOMETRY

EF Eri



n = 78



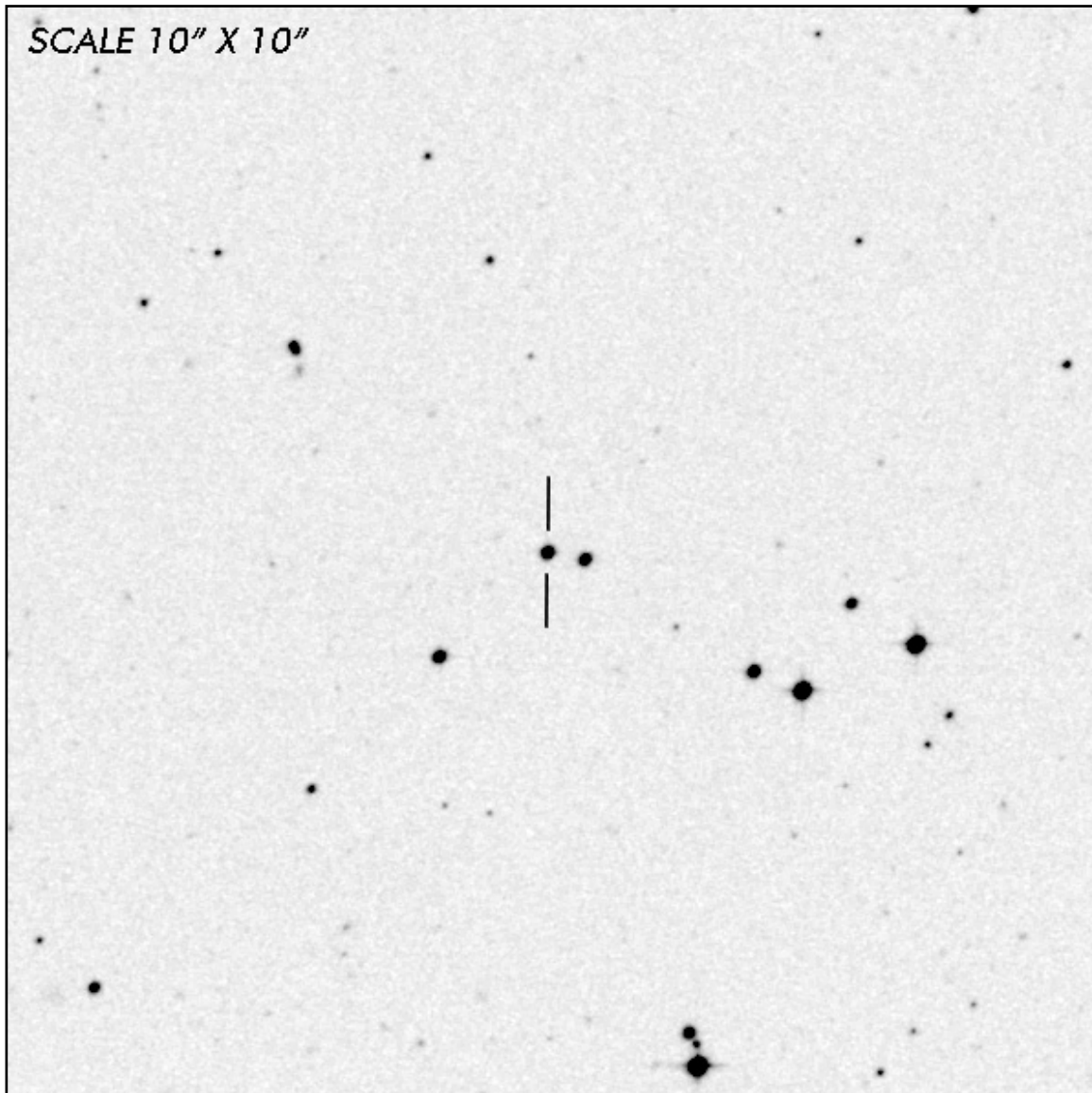
EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58](#)
- ³ [Ferrario, Lilia, et al. 1996, "The Magnetic Fields of EF Eridani and BL Hydri", *MNRAS*, Vol. 282, Iss. 1, pp. 218-222](#)
- ⁴ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁵ [Achilleos, N. et al. 1992, "The Accretion Halo in AM Herculis Systems.", *MNRAS*, Vol. 256, 80-96](#)
- ⁶ [Schwope, A.D. and Christensen, L. 2010, "X-Shooting EF Eridani: Further Evidence for a Massive White Dwarf and a Sub-stellar Secondary", *A&A*, Vol. 514, pp. 5](#)
- ⁷ [Griffiths, R. E. et al. 1979, "The Optical Identification of 2A 0311-227 with a New AM Herculis-type Object.", *ApJ*, Vol. 232, p. L27-L31](#)

8



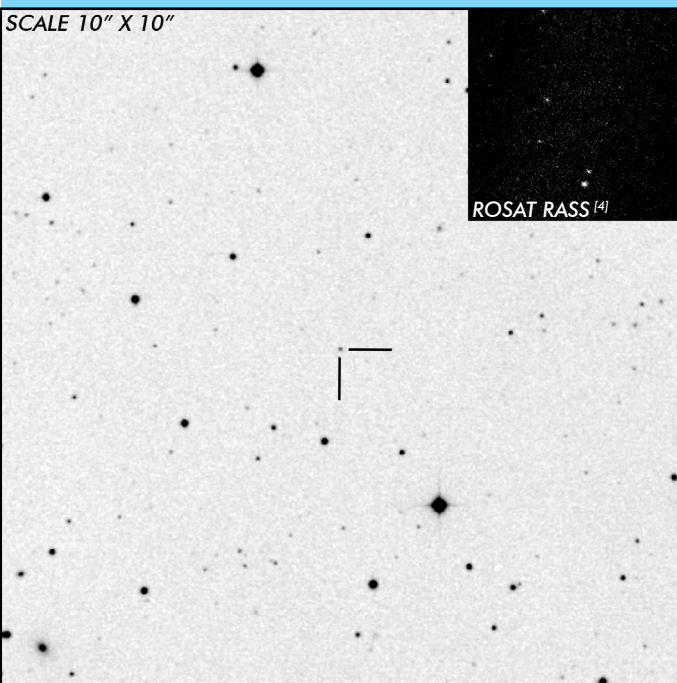
NOTES

J0328+0522

Short Period Polar

OBSERVATION DATA

SCALE 10" X 10"



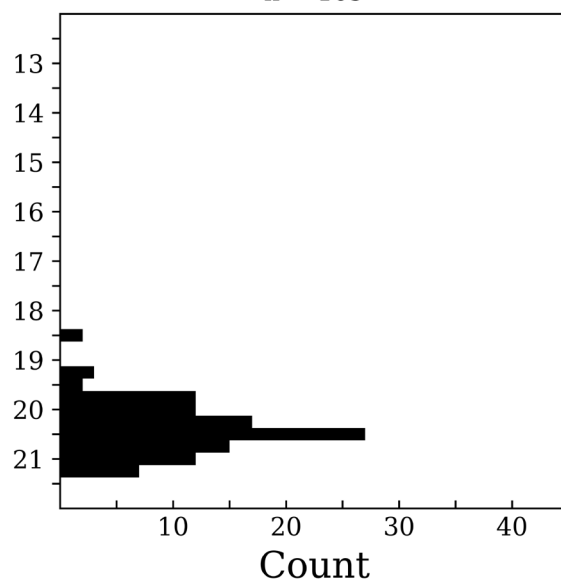
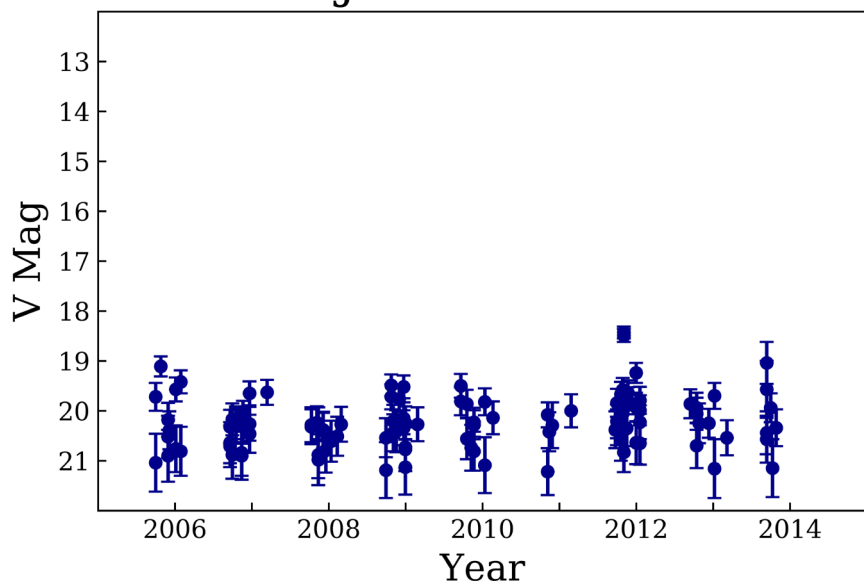
OTHER NAME(S): CRTS J032855.0+052253; SDSS J032855.00+052254.1			
FOUND: SDSS 2007			
RIGHT ASCENSION ^[1]	03 ^h 28 ^m 55.01 ^s	DECLINATION ^[1]	+05° 22' 54.17"
PARALLAXES (mas) ^[1]	1.765 ± 0.574	DISTANCE (pc) ^[2]	579.601
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 416.087	Upper = 904.427
MAGNETIC FIELD (MG) ^[3]		B ₍₁₎ = 39	... ..
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.08470	2.0328	121.968	
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 20.5	V _{LOW} = 17.25	V ₍₁₎ = 18.5	...
OTHER INFORMATION			

SUMMARY

CRTS PHOTOMETRY

J0328+0522

n = 109



EXTERNAL LINKS

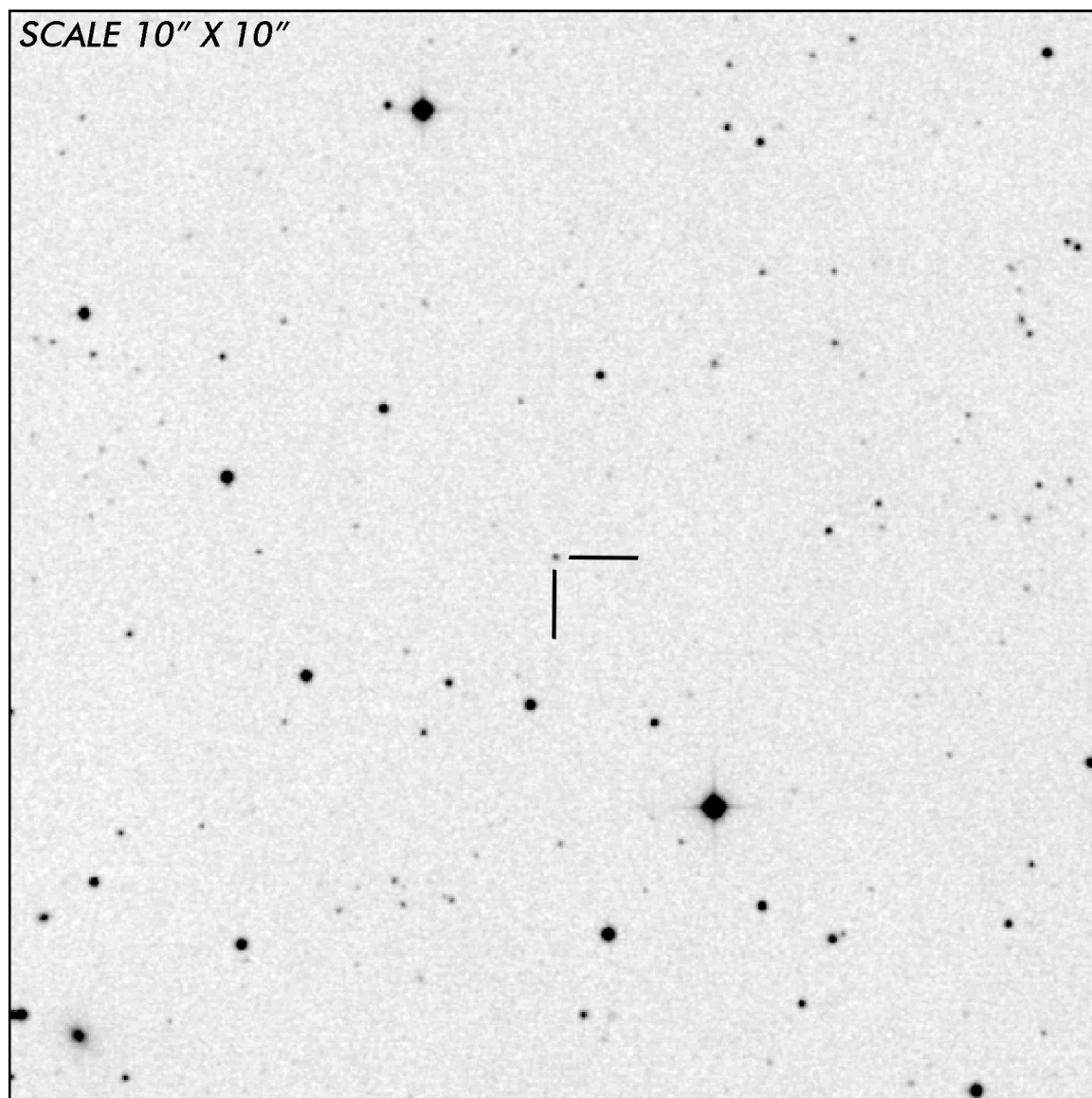




REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes. IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58](#)
- ³ [Szkody, P. et al. 2007, "Cataclysmic Variables from Sloan Digital Sky Survey. VI. The Sixth Year \(2005\)", *AJ*, Vol. 134, Iss. 1, pp. 185-194](#)
- ⁴ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁵ [Worpel, H. et al. 2016, "X-Ray and Optical Observations of Four Polars", *A&A*, Vol. 592, pp. 13](#)

6



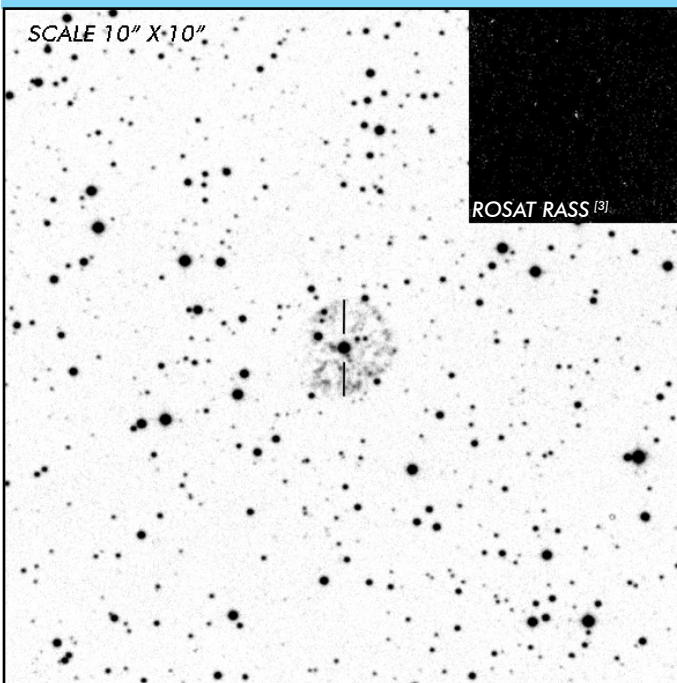
NOTES



GK Per

Long Period Intermediate Polar

OBSERVATION DATA



OTHER NAME(S): BD +43 740a; Nova Persei 1901; PBC J0331.1+4353					
FOUND:					
RIGHT ASCENSION ^[1]		03 ^h 31 ^m 12.01 ^s		DECLINATION ^[1]	
PARALLAXES (mas) ^[1]		2.263 ± 0.043		DISTANCE (pc) ^[2]	
DISTANCE BOUNDARIES (pc) ^[2]				Lower = 428.448 Upper = 445.010	
MAGNETIC FIELD (MG)				B(1) = 0.75 B(2) = 0.56	
WD MASS (M _⊙)		0.87			
ORBITAL PERIOD (P _o)			SPIN PERIOD (P _s) ^[4]		
DAYS	HOURS	MINUTES	HOURS	MINUTES	SECONDS
1.9968	47.923	2875.4	0.09758	5.855	351.3
OPTICAL (CRTS MAGNITUDE)					
...
OTHER INFORMATION					

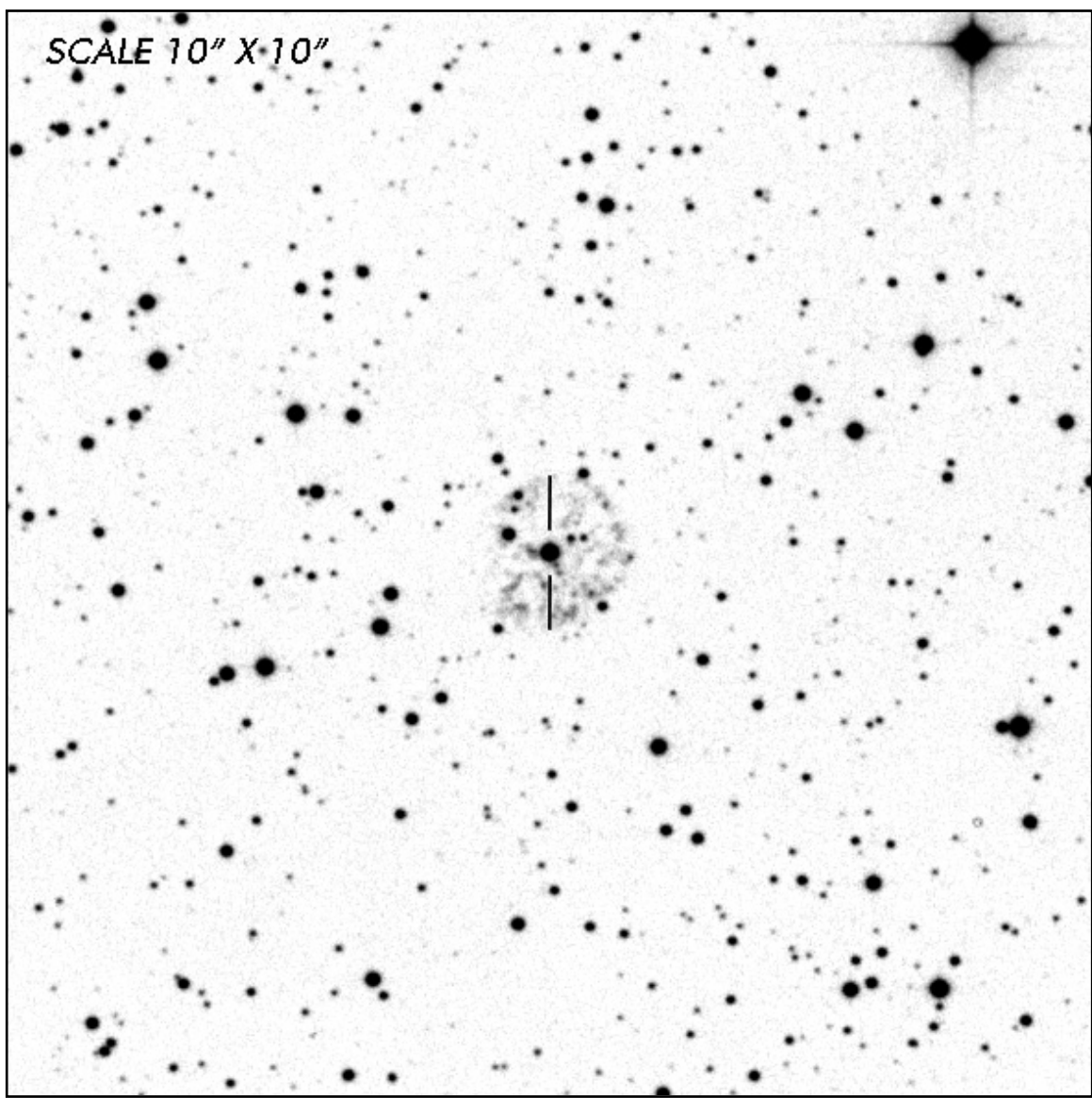
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ Gaia Collaboration et al. (2018b): Summary of the contents and survey properties
- ² Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58
- ³ HEASARC Skyview: ROSAT All-Sky
- ⁴ Koji, Mukai 2014, *The Catalog of IPs and IP Candidates by Right Ascension*
- ⁵ Mumford, G. S. (1966), "Binary Stars Among Cataclysmic Variables. VIII. Photoelectric Observations of 12 Old and Dwarf Novae.", *ApJ*, Vol. 176, p. 411
- ⁶ Crampton, D. et al (1986), "The Orbit of GK Persei", *ApJ*, Vol. 300, p. 788
- ⁷ Mauche, C. W. et al (1997), "Ultraviolet Emission-line Ratios of Cataclysmic Variables", *ApJ*, Vol. 477, Iss. 2, pp. 832-847
- ⁸ Hellier, C. et al. (2004), "On the Magnetic Accretor GK Persei in Outburst", *MNRAS*, Vol. 349, Iss. 2, pp. 710-714
- ⁹ Suleimanov, V. F. et al. (2019), "Hard X-Ray View on Intermediate Polars in the Gaia Era", *MNRAS*, Vol. 482, Iss. 3, p. 3622-3635



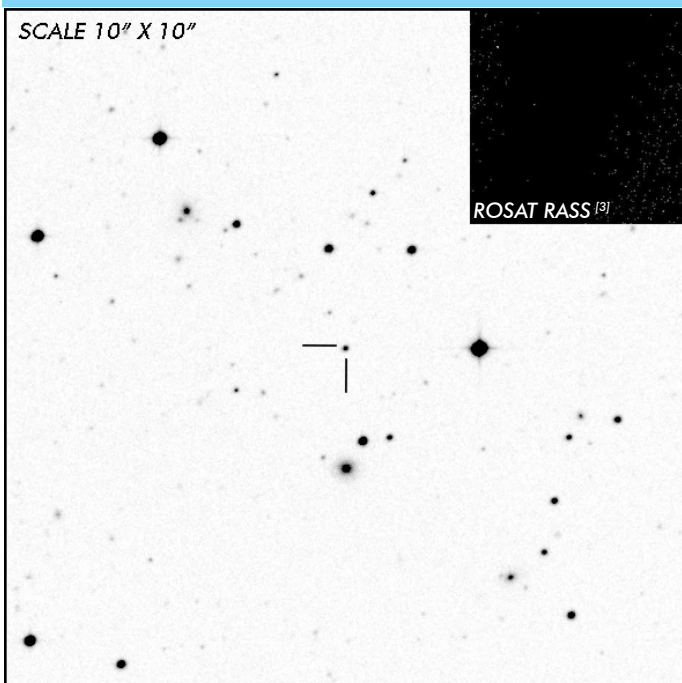
NOTES



VY For

Long Period Polar

OBSERVATION DATA

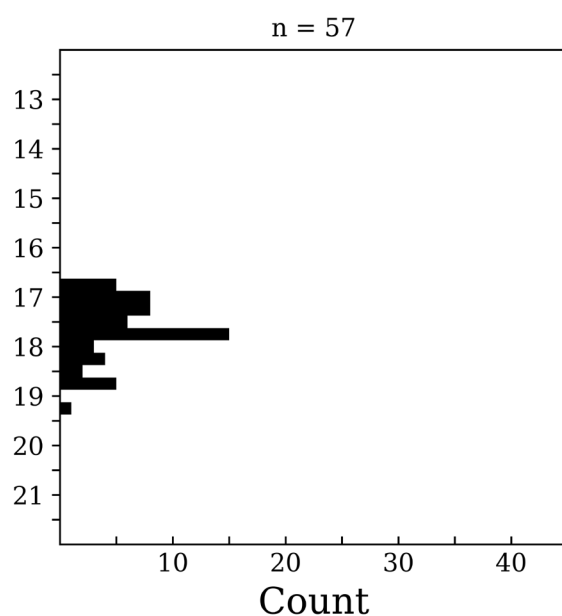
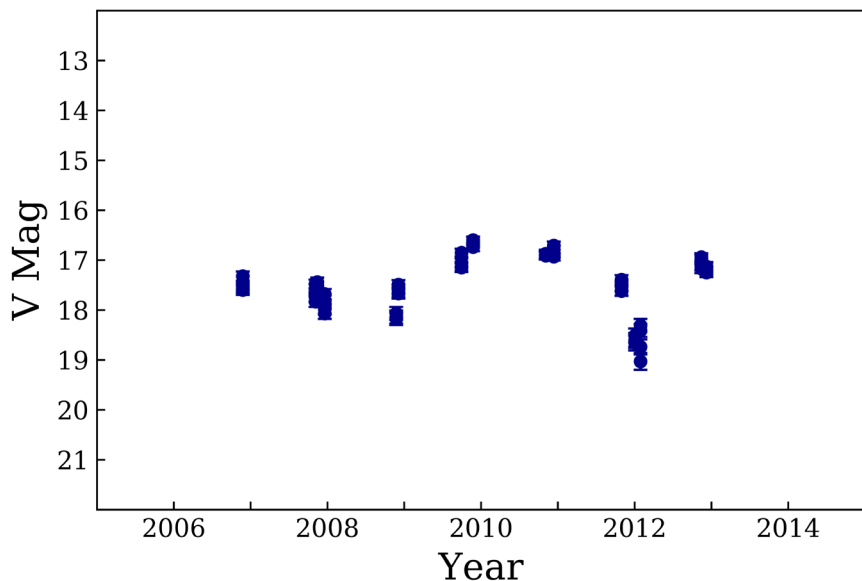


OTHER NAME(S): EXO 0329-2606; For1; EUVE J0332-25.9			
FOUND: EXOSAT 1988			
RIGHT ASCENSION ^[1]	03 ^h 32 ^m 04.60 ^s	DECLINATION ^[1]	-25° 56' 55.06"
PARALLAXES (mas) ^[1]	1.488 ± 0.223	DISTANCE (pc) ^[2]	661.574
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 572.125	Upper = 782.319
MAGNETIC FIELD (MG)			
...			
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.15860	3.8064	228.384	
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 16.75	V _{LOW} = 19.25	V ₍₁₎ = 17.75	...
OTHER INFORMATION			

SUMMARY

CRTS PHOTOMETRY

VY For



EXTERNAL LINKS



REFERENCES

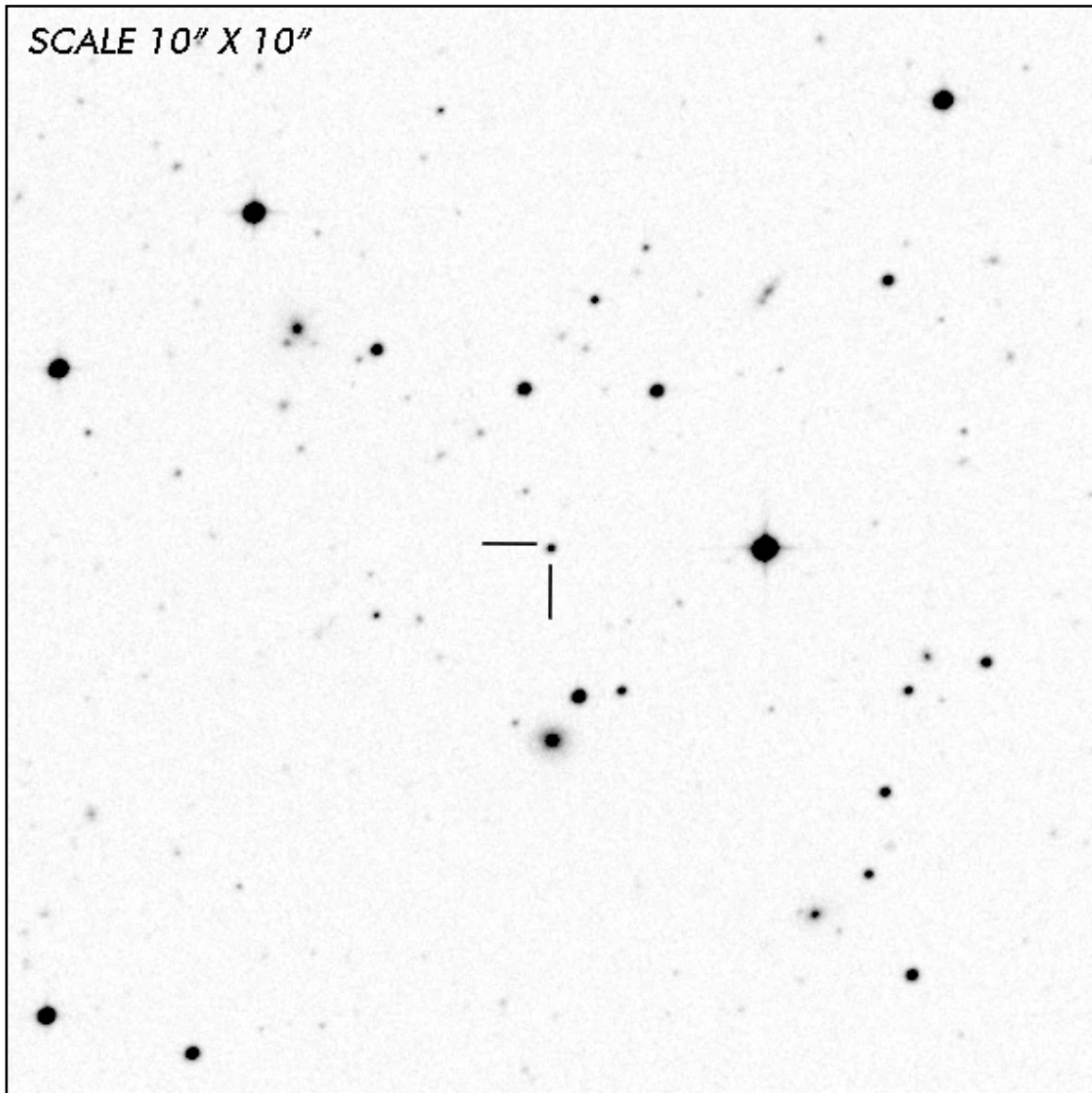
¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)

² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58](#)

³ [HEASARC Skyview: ROSAT All-Sky](#)

⁴ [Beuermann, K. et al. \(1989\), "EXO 032957-2606.9: A New Long-Period Probable AM Herculis Binary.", *A&A*, Vol. 219, p. L7](#)

⁵

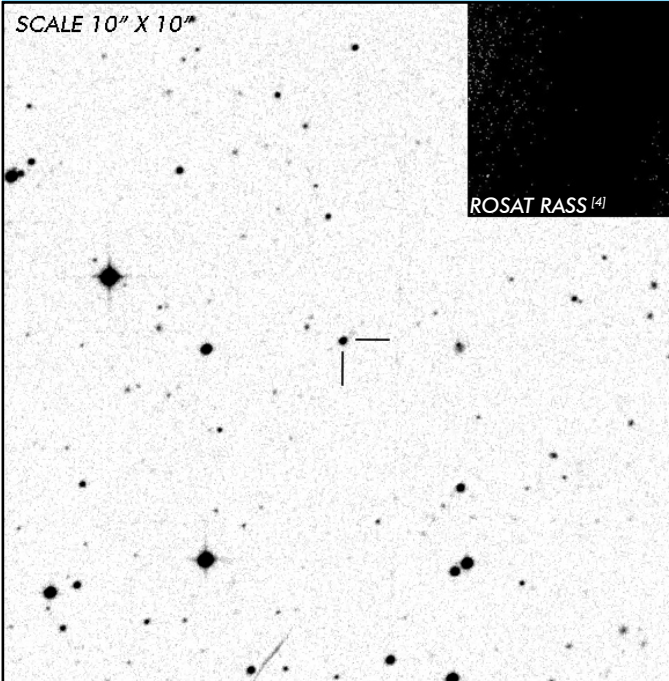


NOTES

UZ For

Eclipsing Period Gap Polar

OBSERVATION DATA

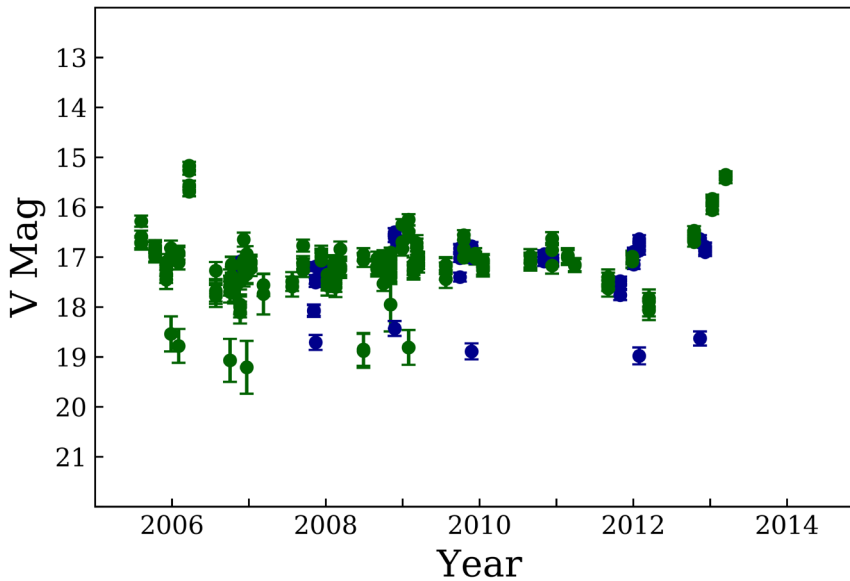


OTHER NAME(S): EXO 033319-2554.2; RX J0335.4-2544			
FOUND: EXOSAT 1987			
RIGHT ASCENSION ^[1]	03 ^h 35 ^m 28.65 ^s	DECLINATION ^[1]	-25° 44' 21.77"
PARALLAXES (mas) ^[1]	4.174 ± 0.074	DISTANCE (pc) ^[2]	238.050
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 233.885	Upper = 242.364
MAGNETIC FIELD (MG) ^[3]		B ₍₁₎ =56	B ₍₂₎ =75: ...
WD MASS (M _⊙)	0.7		
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.08787	2.1088	126.526	
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 15.25	V _{LOW} = 19.25	V ₍₁₎ = 17.25	...
OTHER INFORMATION			

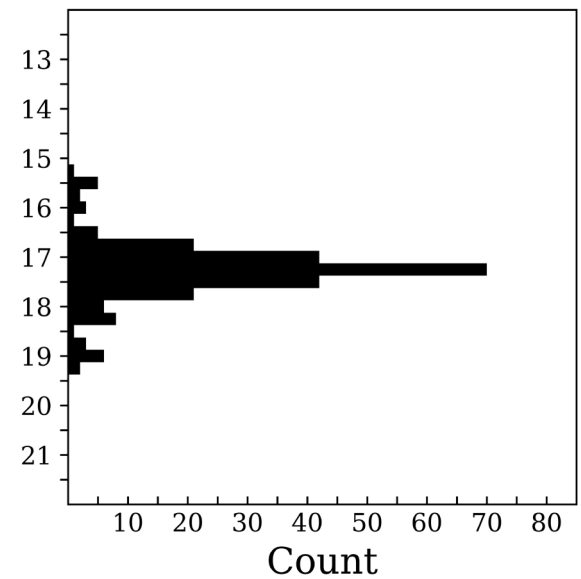
SUMMARY

CRTS PHOTOMETRY

UZ For



n = 239



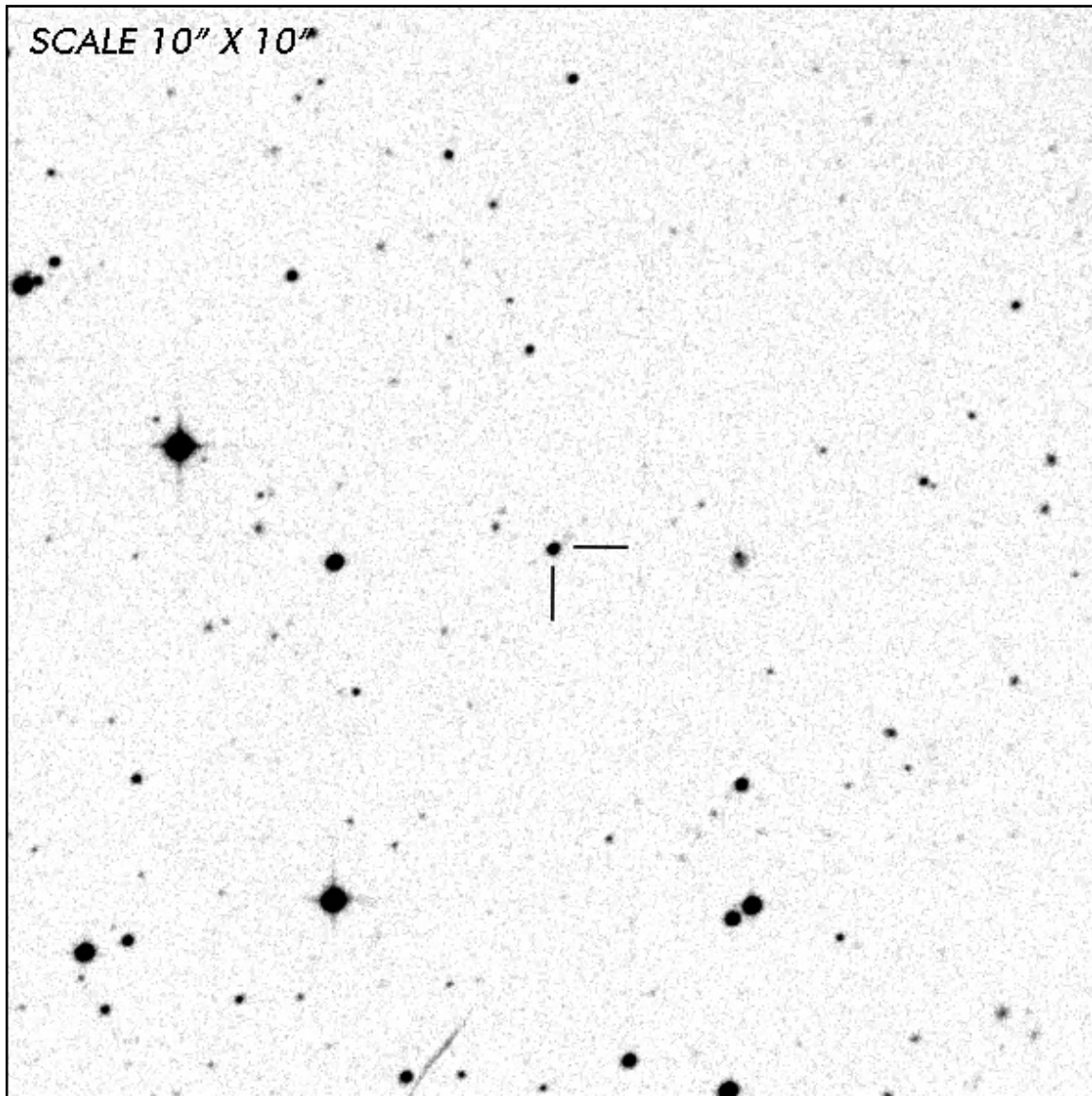
EXTERNAL LINKS





REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", ApJ, Vol. 156, 58](#)
- ³ [Ferrario, L. et al. 1989, "EXO 033319-2554.2: An Eclipsing AM Herculis System Showing Cyclotron Emission Features", ApJ, Vol. 337, p. 832](#)
- ⁴ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁵ [Schwope, A. D. et al. 1990, "Cyclotron Radiation in UZ Fornacis \(=EXO 033319-2554.2\) in a Low State of Accretion.", A&A, Vol. 230, p. 120-126](#)
- ⁶ [Osborne, J. P. 1988, "Magnetic Cataclysmic Variables Seen by EXOSAT.", MmSAI, Vol. 59, p. 117-145](#)
- ⁷



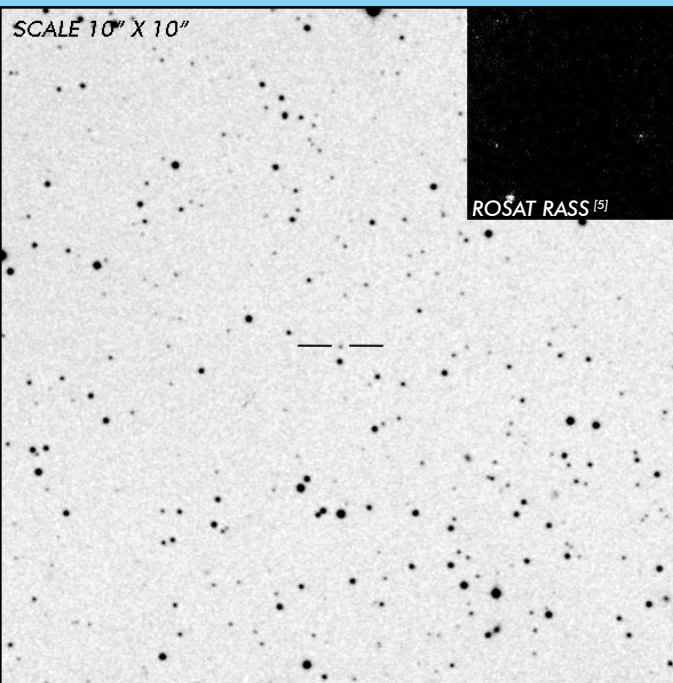
NOTES



J035011+3232

Eclipsing Period Gap Polar

OBSERVATION DATA



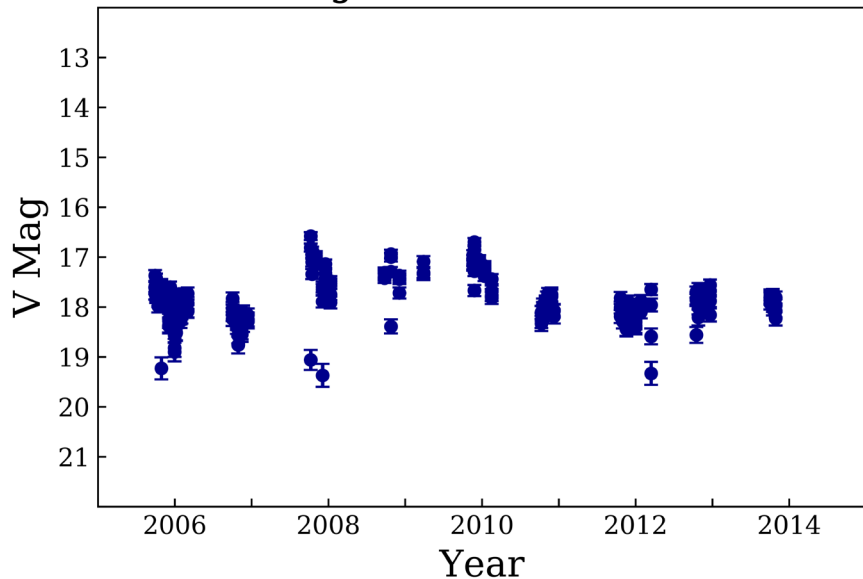
OTHER NAME(S): CRTS CSS091218 J035011+323230; CSS0350+3232			
FOUND: CRTS 2019			
RIGHT ASCENSION ^[1]	03 ^h 50 ^m 10.71 ^s	DECLINATION ^[1]	+32° 32' 29.6"
PARALLAXES (mas) ^[2]	1.737 ± 0.311	DISTANCE (pc) ^[3]	584.115
DISTANCE BOUNDARIES (pc) ^[3]		Lower = 484.935	Upper = 732.081
MAGNETIC FIELD (MG)			

WD MASS (M _⊙)			
	0.948		
ORBITAL PERIOD & SPIN PERIOD ^[4]			
	DAYS	HOURS	MINUTES
	0.09882	2.37174	142.3008
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 16.75	V _{LOW} = 19.5	V ₍₁₎ = 18	...
OTHER INFORMATION			

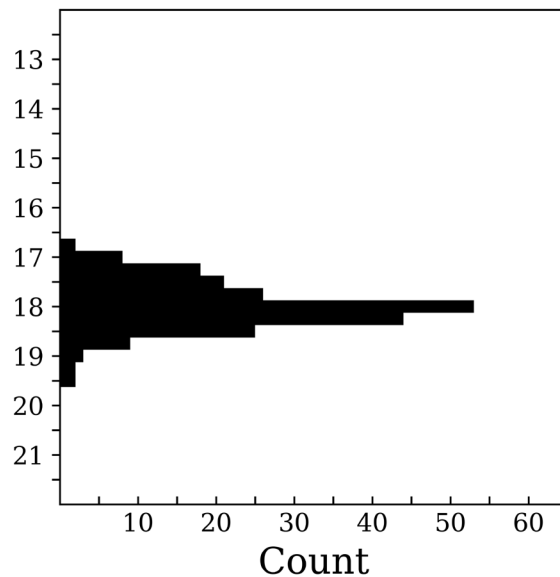
SUMMARY

CRTS PHOTOMETRY

J0350+3232



n = 213



EXTERNAL LINKS



REFERENCES

¹ [Drake et al. 2014, MNRAS 441, 1186-1200](#)

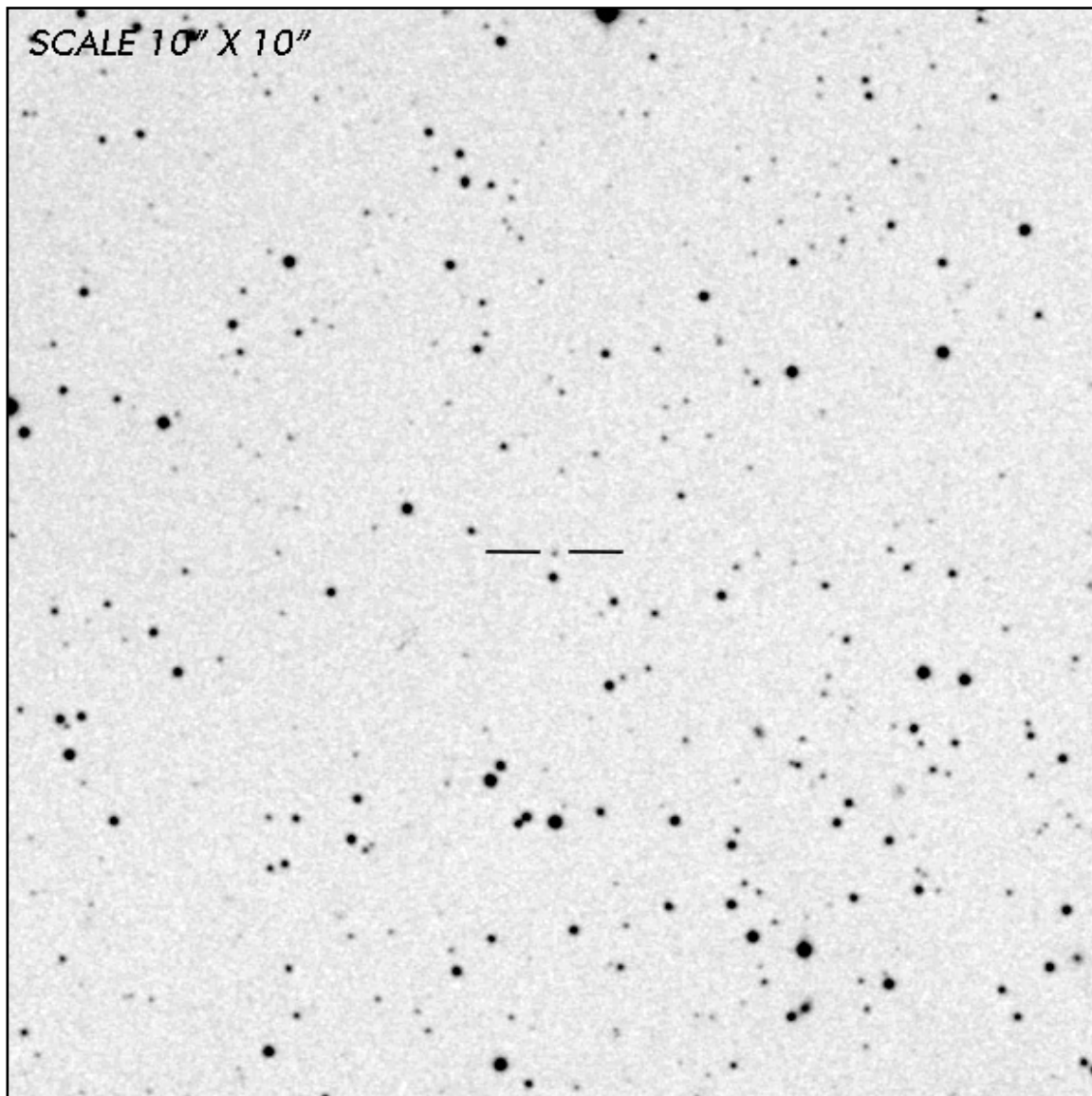
² [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)

³ [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes to 1.33 Billion Stars in Gaia Data Release 2", ApJ, Vol. 156, 58](#)

⁴ [Mason, P. A. et al. 2019, "CRTS J035010.7+323230, a new eclipsing polar in the cataclysmic variable period gap.", MNRAS 488, 2881M](#)

⁵ [HEASARC Skyview: ROSAT All-Sky](#)

⁶

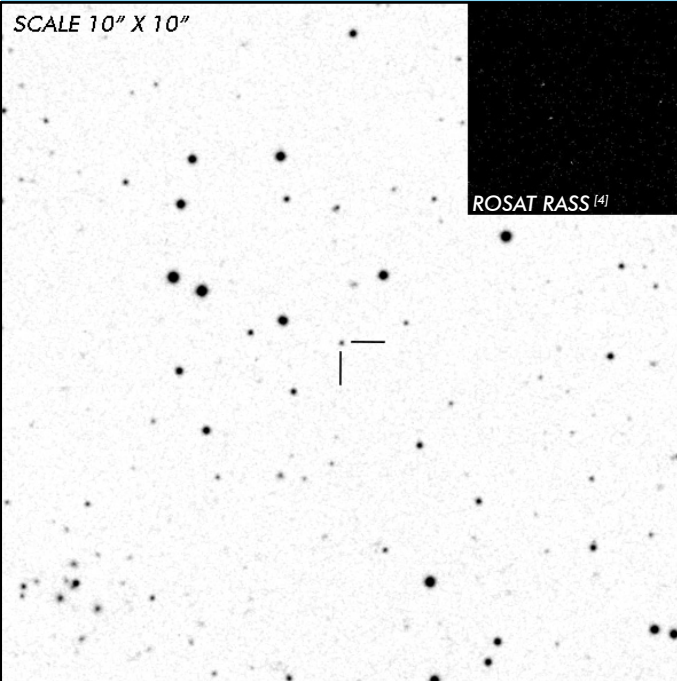


NOTES

J0357+1029*

Short Period Candidate Polar

OBSERVATION DATA

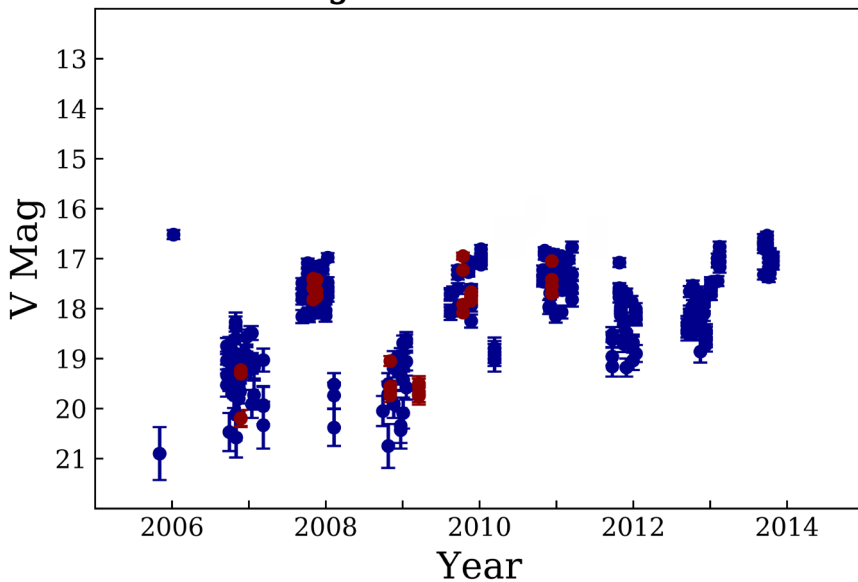


OTHER NAME(S): CRTS J035758.7+102943			
FOUND: CRTS 2012			
RIGHT ASCENSION ^[1]	03 ^h 57 ^m 58.67 ^s	DECLINATION ^[1]	+10° 29' 42.9"
PARALLAXES (mas) ^[2]	1.083 ± 0.163	DISTANCE (pc) ^[3]	894.258
DISTANCE BOUNDARIES (pc) ^[3]		Lower = 775.586	Upper = 1052.979
MAGNETIC FIELD (MG)			
...			
ORBITAL PERIOD & SPIN PERIOD			
DAYS		HOURS	
0.07918		1.9003	
MINUTES			
114.021			
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 16.75	V _{LOW} = 21	V ₍₁₎ = 17.75	...
OTHER INFORMATION			
TEMP _{EFF} = 114.0 K			

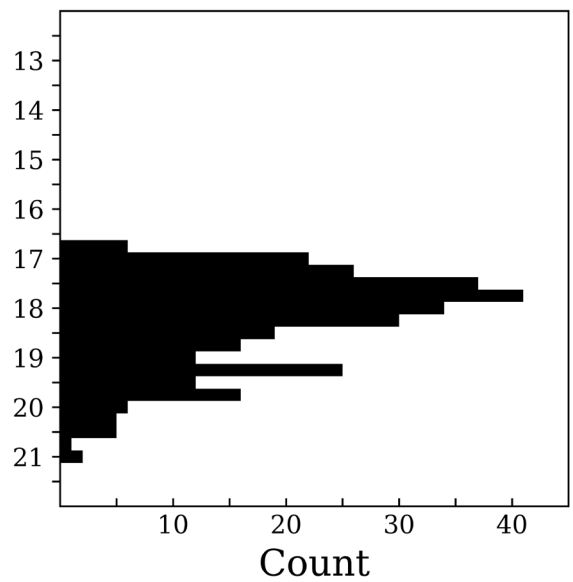
SUMMARY

CRTS PHOTOMETRY

J0357+1029



n = 315



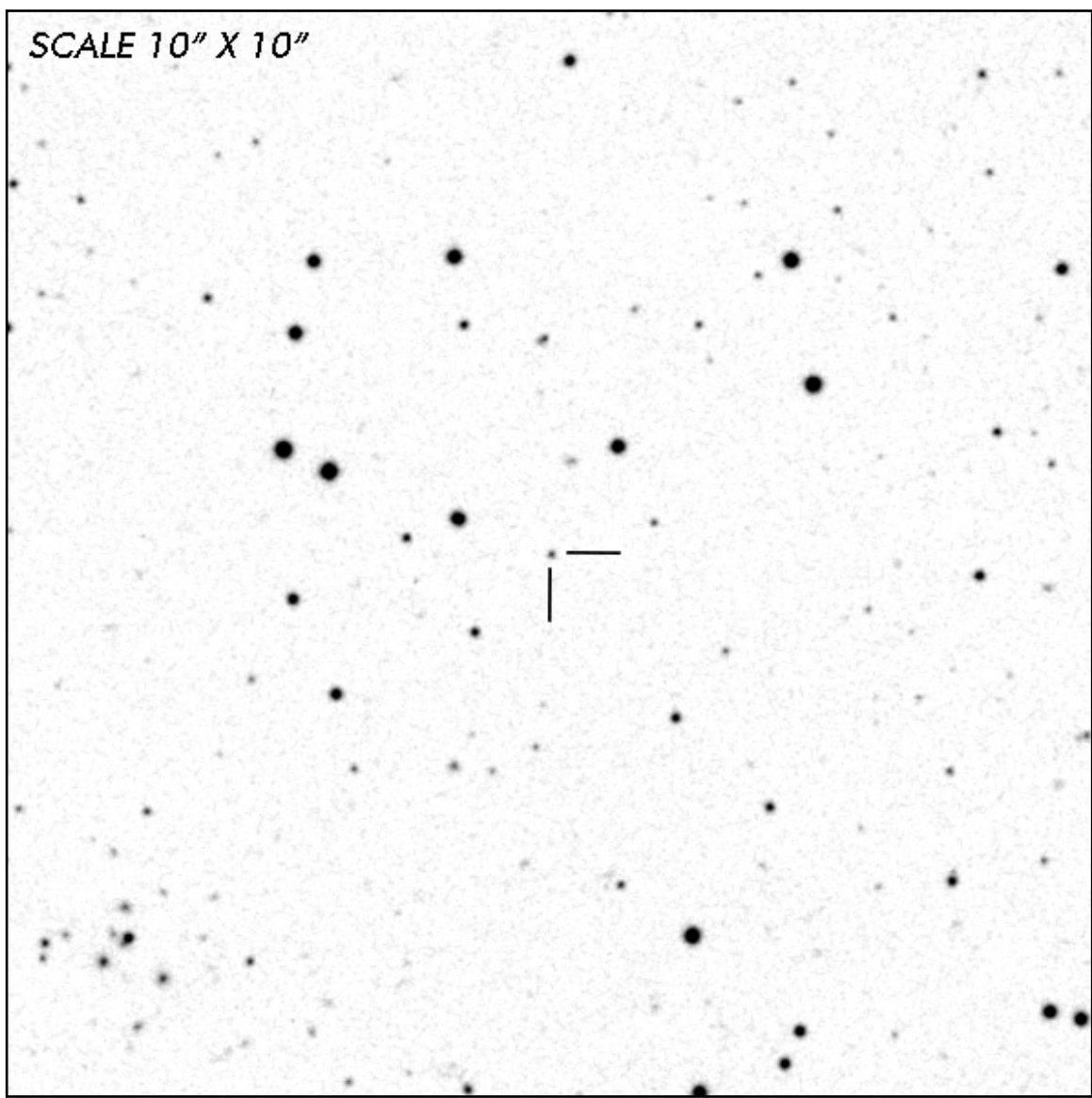
EXTERNAL LINKS





REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes. IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58](#)
- ³ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁴ [Schwope, A. D. & Thinius, B. 2012, "CSS091109: 035759+102943: A Candidate Polar", *ASNA*, Vol. 333, Iss. 8, p. 717](#)
- ⁵ [Oliveria, A. S. et al. 2017, "Exploratory Spectroscopy of Magnetic Cataclysmic Variables Candidates and Other Variable Objects", *AJ*, Vol. 153, Iss. 4, pp. 18](#)
- ⁶



NOTES

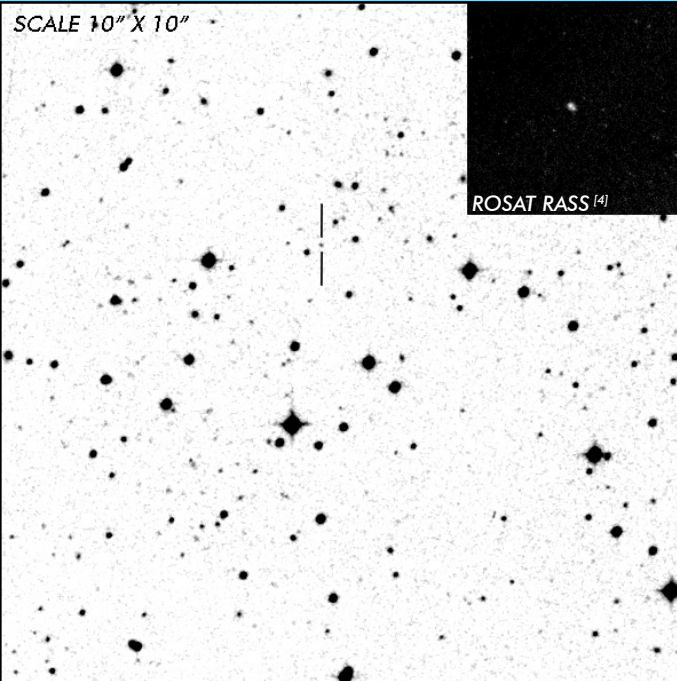
RIGHT ASCENSION

04 HOURS

J0425-5714

Short Period Polar

OBSERVATION DATA

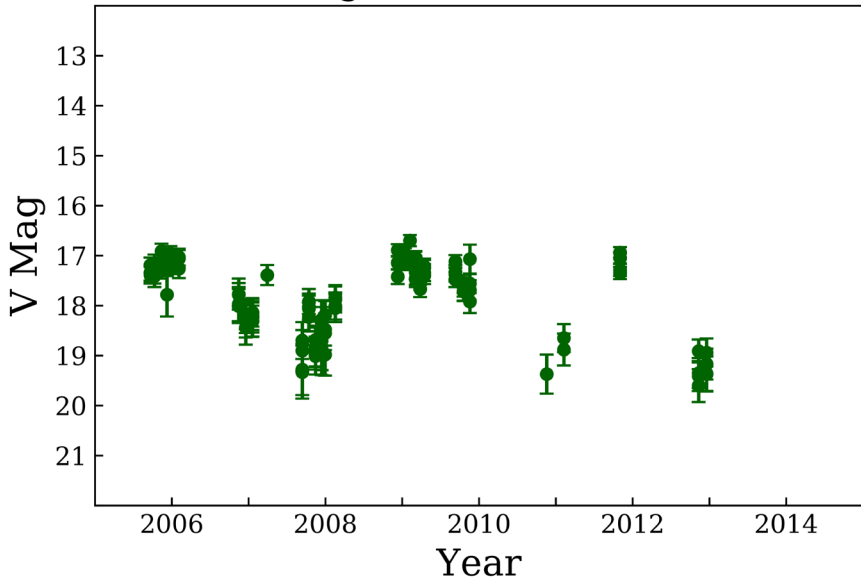


OTHER NAME(S): EUVE J0425.6-5714; Dor; RX J0425.6-5714			
FOUND: EUVE 1998			
RIGHT ASCENSION ^[1]	04 ^h 25 ^m 38.61 ^s	DECLINATION ^[1]	-57° 14' 36.21"
PARALLAXES (mas) ^[1]	1.772 ± 0.075	DISTANCE (pc) ^[2]	556.043
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 533.742	Upper = 580.251
MAGNETIC FIELD (MG) ^[3]		B ₍₁₎ > 50	... ..
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.05960	1.4304	85.821	
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 16.75	V _{LOW} = 19.75	V ₍₁₎ = 17.25	...
OTHER INFORMATION			

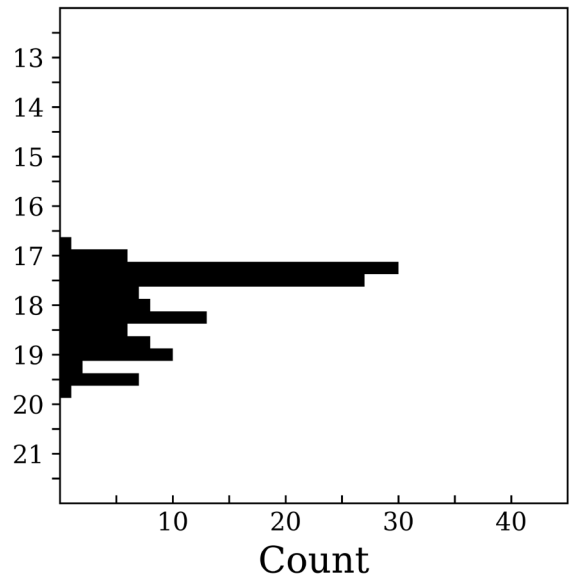
SUMMARY

CRTS PHOTOMETRY

J0425-5714



n = 126



EXTERNAL LINKS



REFERENCES

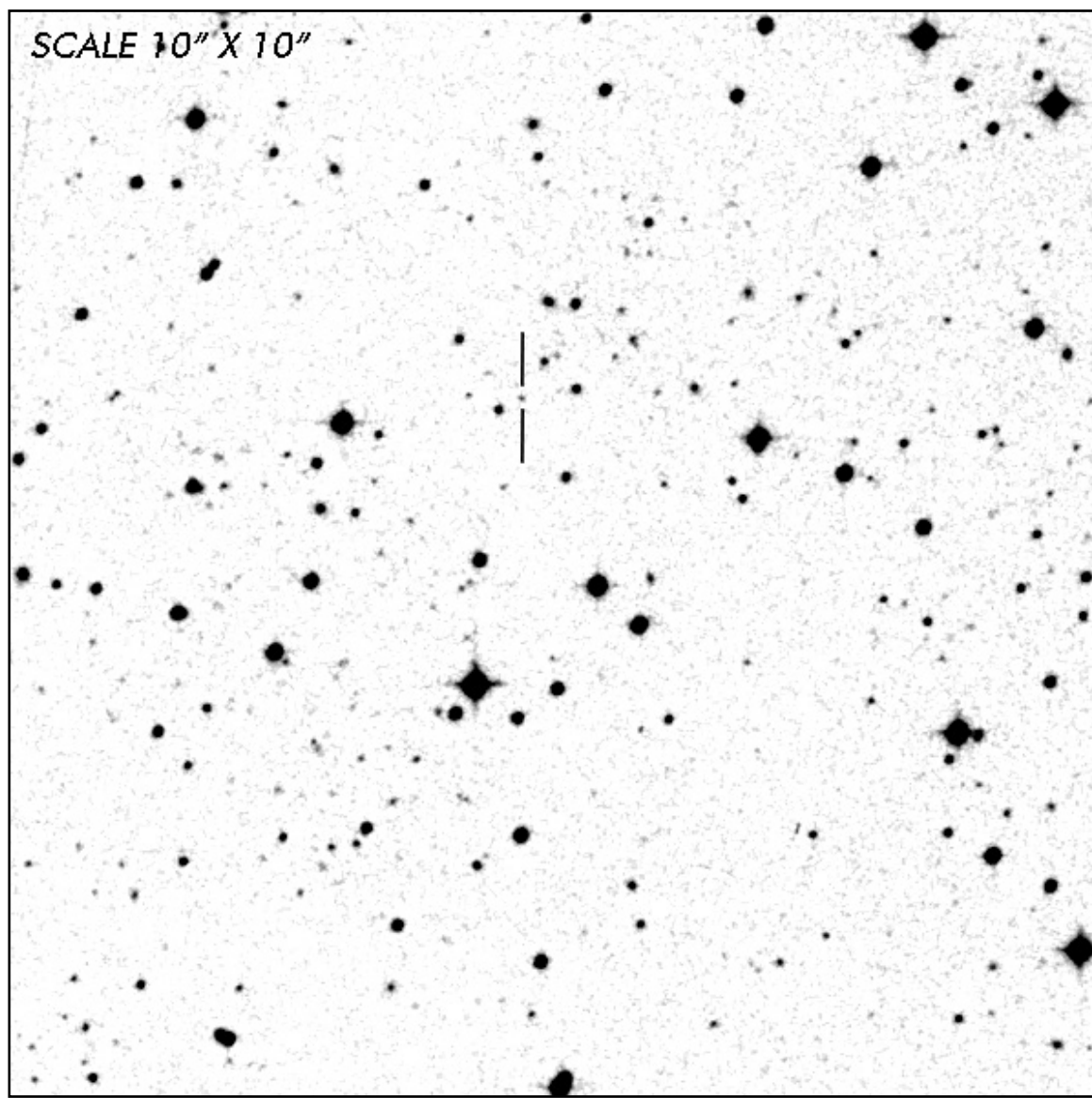
¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)

² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Release 2", *ApJ*, Vol. 156, 58](#)

³ [Halpern, J. P. et al 1998, "EUVE J0425.6-5714: A Newly Discovered AM Herculis Star", *PASP*, Vol. 110, Iss. 754, pp. 1394-1399](#)

⁴ [HEASARC Skyview: ROSAT All-Sky](#)

⁵

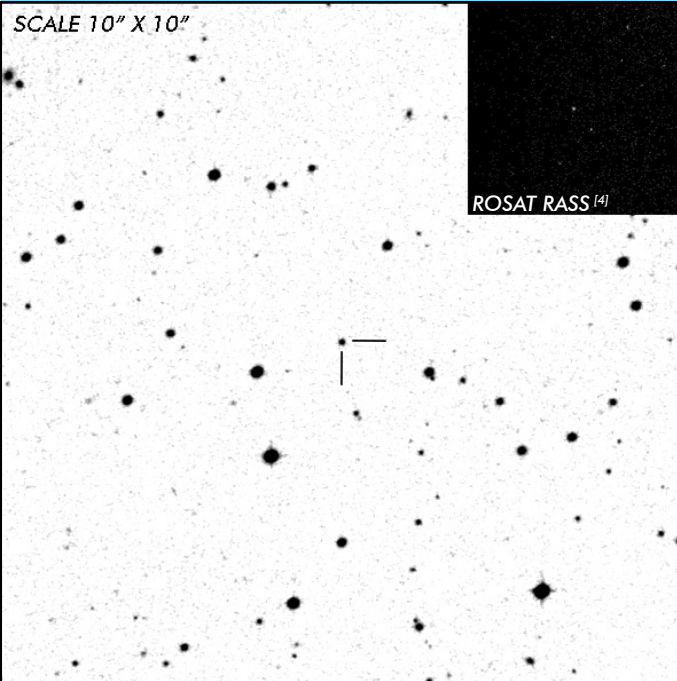


NOTES

IW Eri

Short Period Polar

OBSERVATION DATA



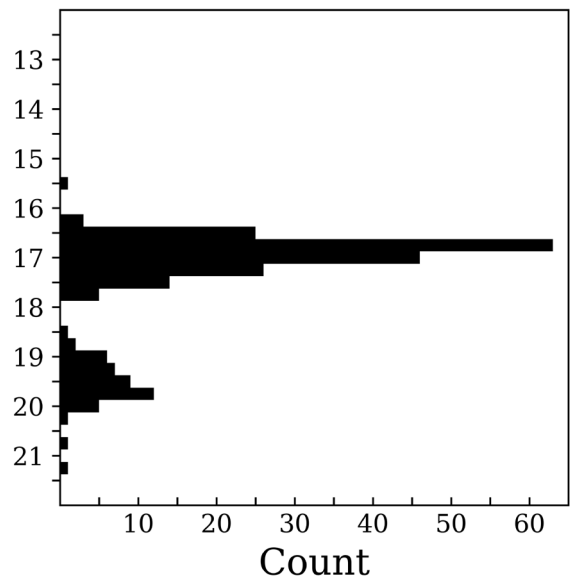
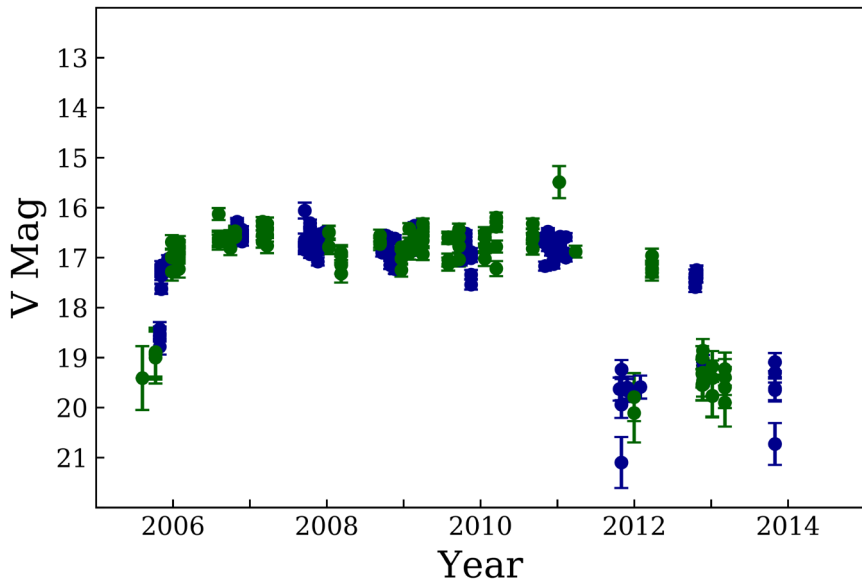
OTHER NAME(S): RBS 0541; 1RXS J042555.8-194534			
FOUND: ROSAT RBSC 2000			
RIGHT ASCENSION ^[1]	04 ^h 25 ^m 55.24 ^s	DECLINATION ^[1]	-19° 45' 30.1"
PARALLAXES (mas) ^[2]	3.127 ± 0.476	DISTANCE (pc) ^[3]	325.600
DISTANCE BOUNDARIES (pc) ^[3]		Lower = 278.289	Upper = 391.719
MAGNETIC FIELD (MG)			
...			
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.06050	1.4520	87.120	
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 16.25	V _{LOW} = 20.25	V ₍₁₎ = 16.75	V ₍₂₎ = 19.75
OTHER INFORMATION			

SUMMARY

CRTS PHOTOMETRY

IW Eri

n = 228



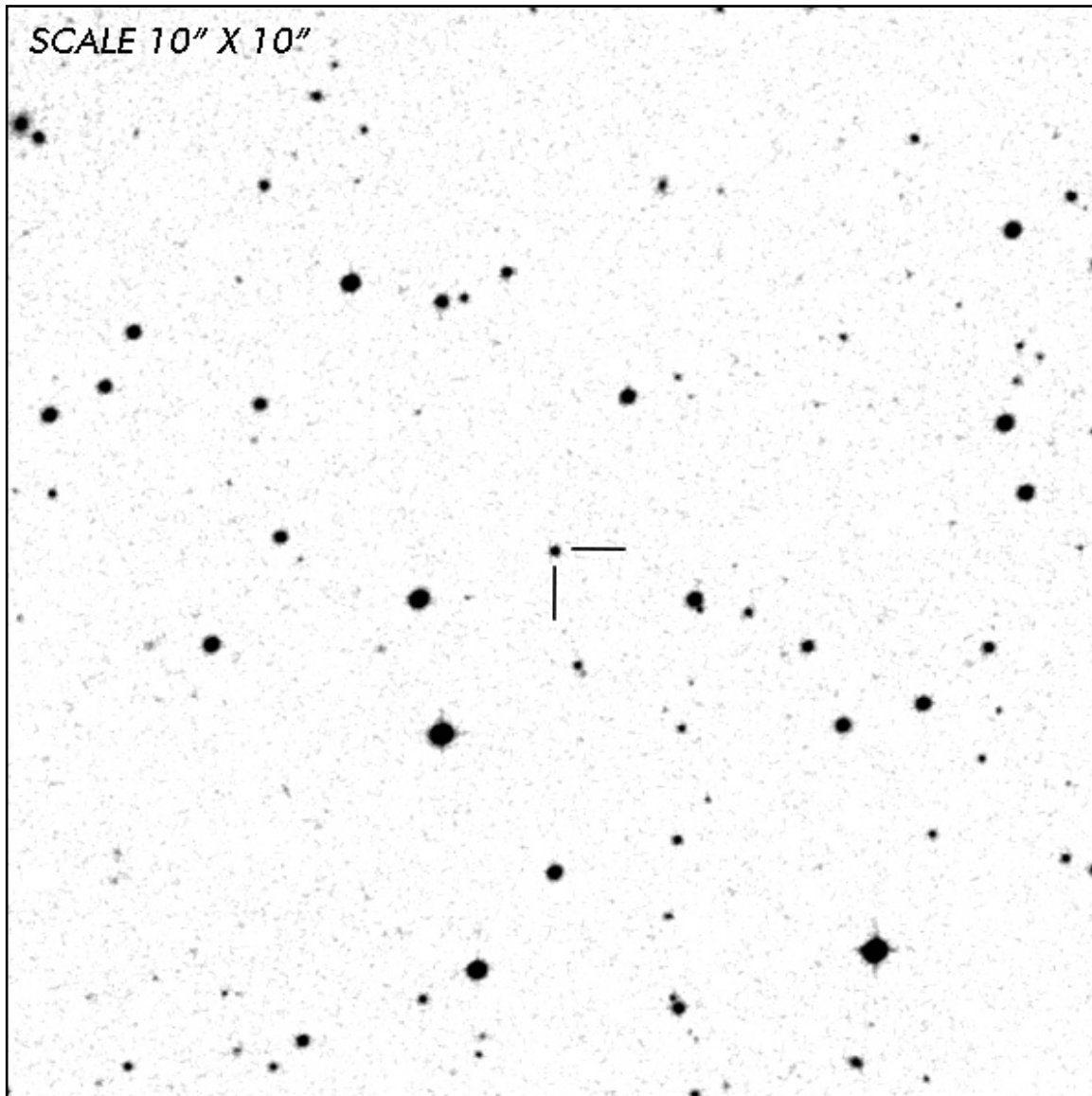
EXTERNAL LINKS





REFERENCES

- ¹ [Downes, Ronald A. et al, 2001, PASP 113, 764-768, A Catalog and Atlas of Cataclysmic Variables: The Living Edition](#)
- ² [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ³ [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", ApJ, Vol. 156, 58](#)
- ⁴ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁵ [Schwope, A. D. et al 2002, "The Census of Cataclysmic Variables in the ROSAT Bright Survey", A&A, Vol. 396, p. 895-910](#)
- ⁶

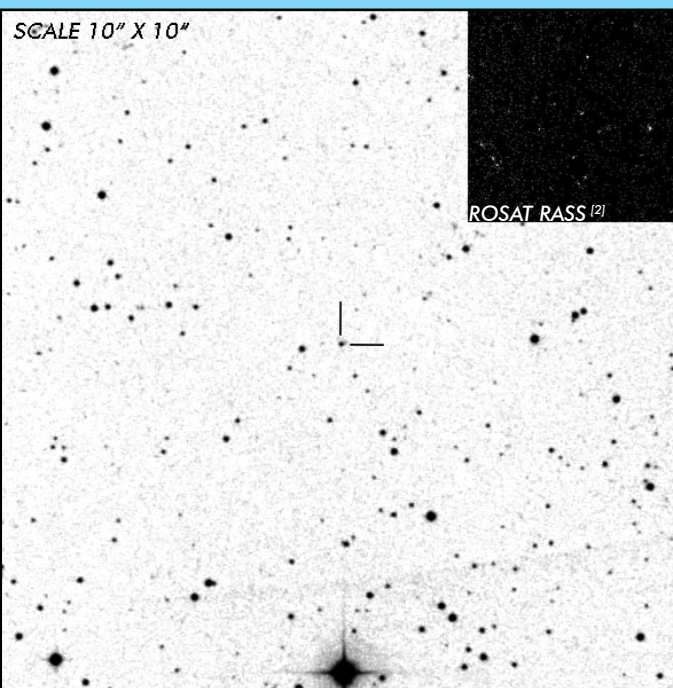


NOTES

ZTF 0451+16*

Candidate
Polar

OBSERVATION DATA



OTHER NAME(S): ZTF17aactzul			
FOUND: ZTF 2020			
RIGHT ASCENSION [1]	04 ^h 51 ^m 22.36 ^s	DECLINATION [1]	+16° 10' 19.5"
PARALLAXES (mas)	...	DISTANCE (pc)	...
DISTANCE BOUNDARIES (pc)		...	...
MAGNETIC FIELD (MG)			
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
...	
OPTICAL (CRTS MAGNITUDE)			
...
OTHER INFORMATION			

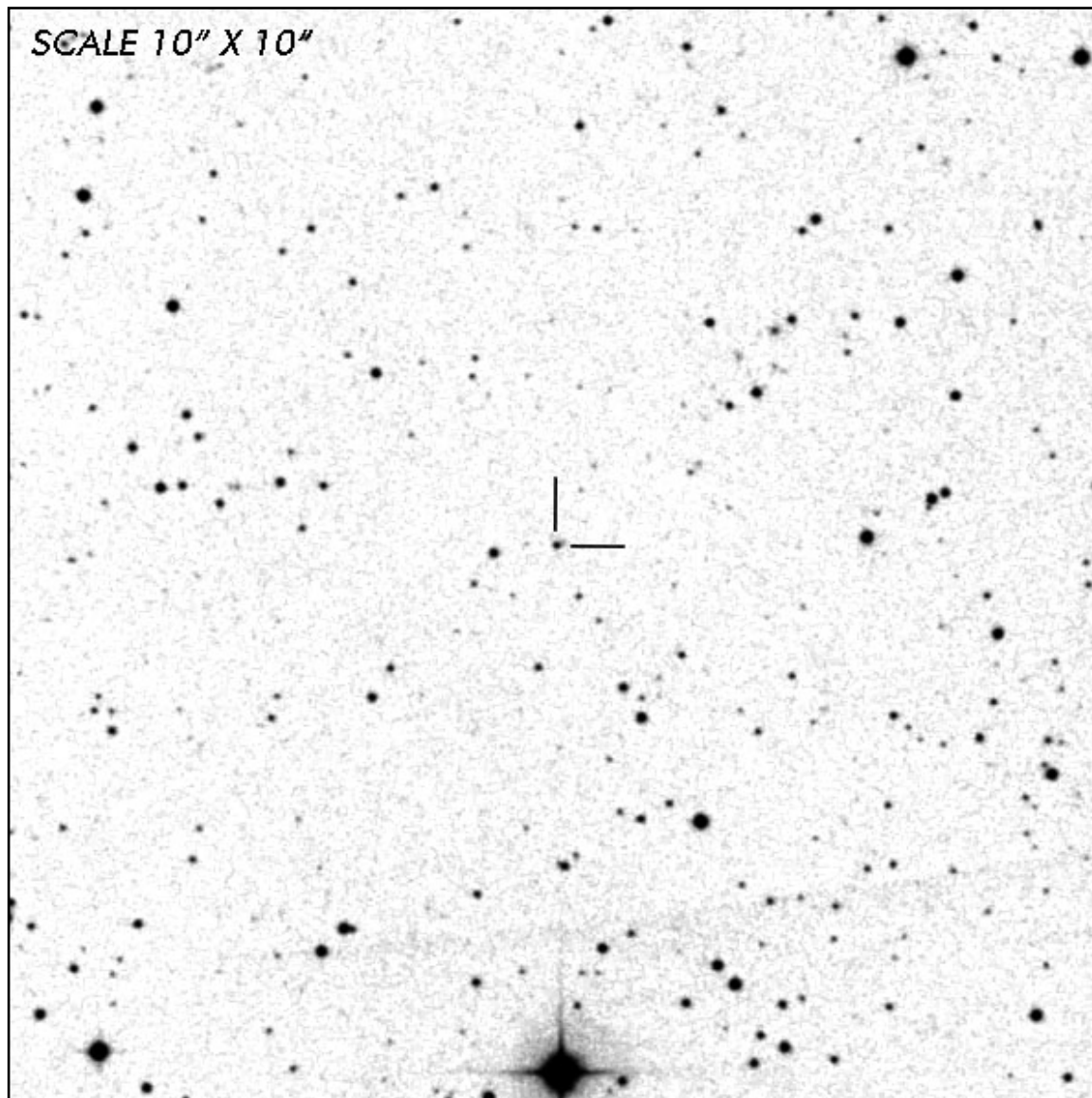
SUMMARY

EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Data Release 2, 2018](#)
- ² [HEASARC Skyview: ROSAT All-Sky](#)
- ³ [Szkody, P. et al. 2020, "Cataclysmic Variables in the First of the Zwicky Transient Facility", AJ, Vol. 159, Iss. 5, 16](#)
- ⁴



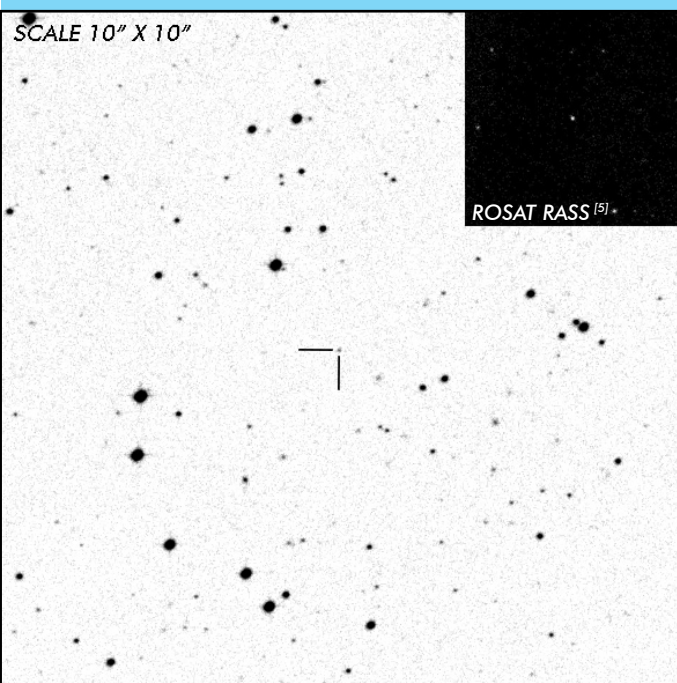
NOTES



RS Cae

Short Period Polar

OBSERVATION DATA

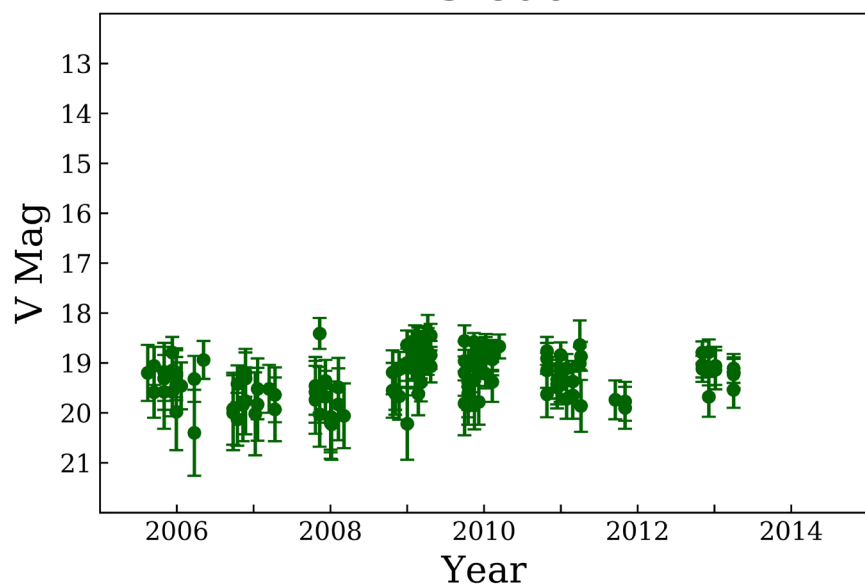


OTHER NAME(S): 1RXS J045325.2-421335; RE J0453-42			
FOUND: ROSAT 1993			
RIGHT ASCENSION ^[1]	04 ^h 53 ^m 25.46 ^s	DECLINATION ^[1]	-42° 13' 39.6"
PARALLAXES (mas) ^[2]	0.49 ± 0.48	DISTANCE (pc) ^[3]	1252.3
DISTANCE BOUNDARIES (pc) ^[3]		Lower = 846.88	Upper = 1944.45
MAGNETIC FIELD (MG) ^[4]		B ₍₁₎ = 36	... ..
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.07090	1.7016	102.096	
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 18.5	V _{LOW} = 20.5	V ₍₁₎ = 19.25	...
OTHER INFORMATION			

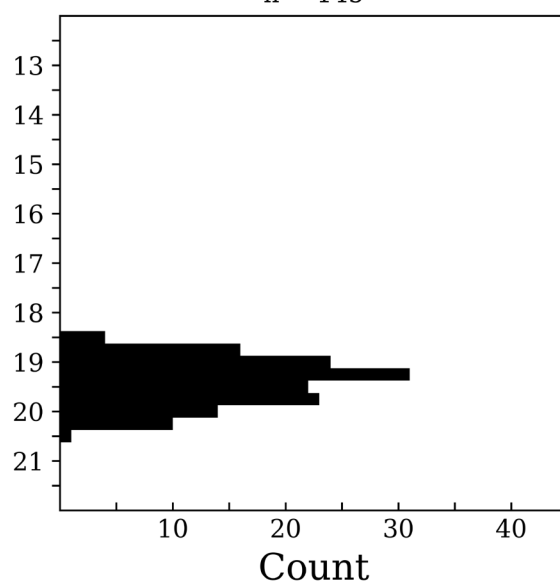
SUMMARY

CRTS PHOTOMETRY

RS Cae



n = 145



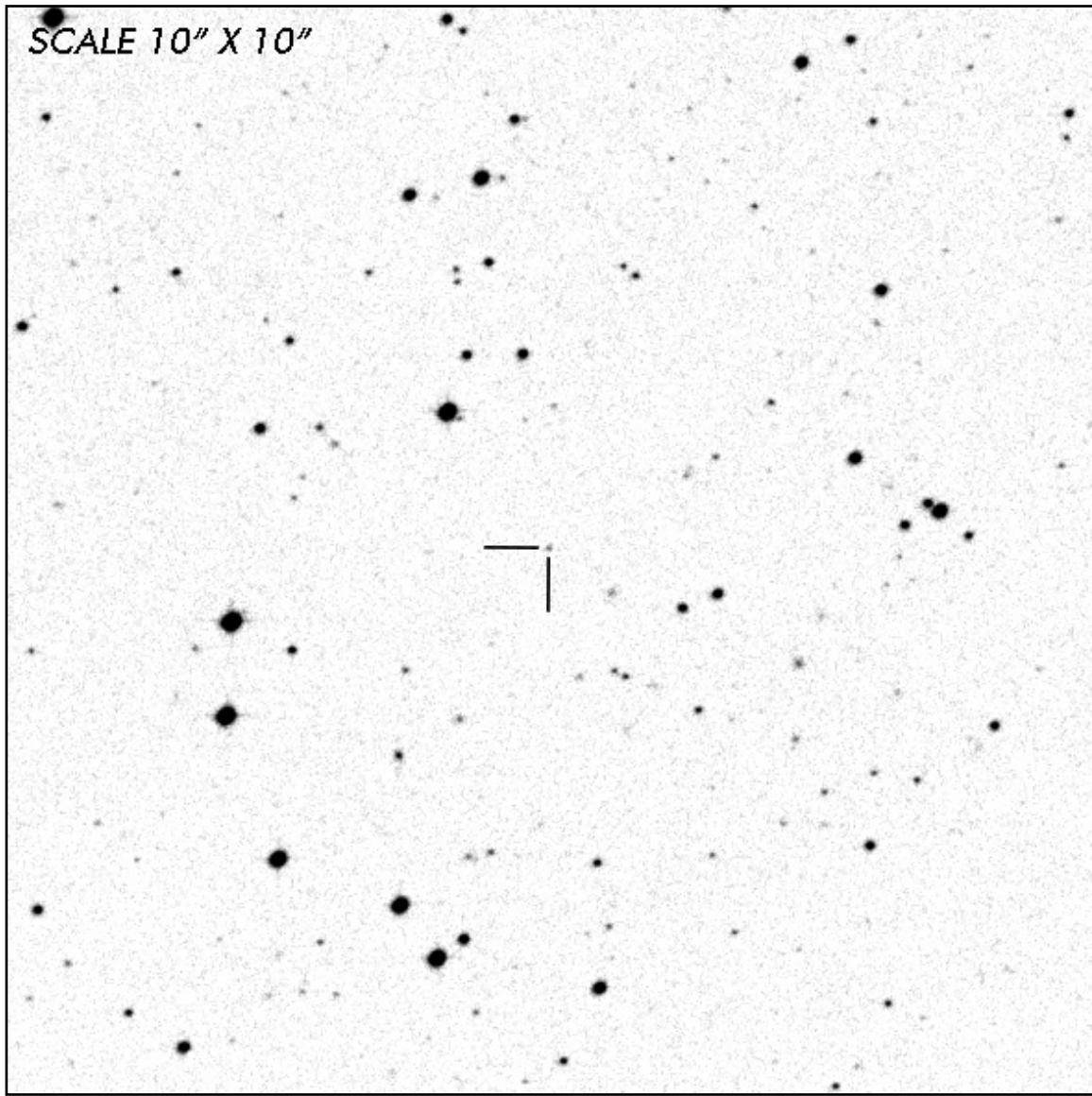
EXTERNAL LINKS



REFERENCES

- ¹ [Downes, Ronald A., et al. 1997, "A Catalog and Atlas of Cataclysmic Variables - 2nd Edition", *PASP* 109, 345-439](#)
- ² [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ³ [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2" *ApJ*, Vol. 156, 58](#)
- ⁴ [Burwitz, V. et al. 1996, "X-Ray and Optical Observations of a New ROSAT Discovered Polar: RX J0453.4-4213.", *A&A*, Vol. 305, p. 507](#)
- ⁵ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁶ [Pounds, K. A. et al. 1993, "The ROSAT Wide Field Camera All-Sky Survey of Extreme-Ultraviolet Sources. I. The Bright Source Catalogue." *MNRAS*, Vol. 260, pp. 77](#)
- ⁷ [Traulsen, I. et al. 2014, "Phase-Resolved X-ray Spectroscopy and Spectral Energy Distribution of the X-ray Soft Polar RS Caeli", *A&A*, Vol. 562, pp. 10](#)

8

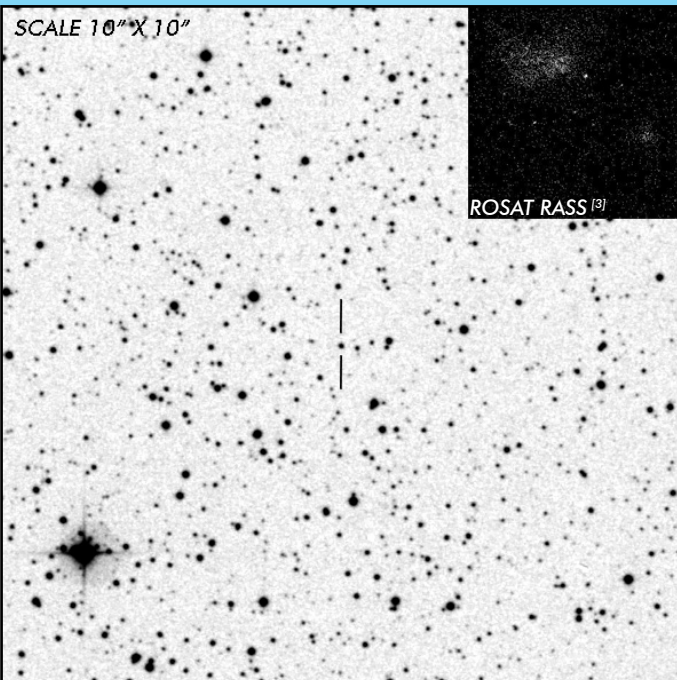


NOTES

J0457.1+4528

Long Period
Intermediate Polar

OBSERVATION DATA



OTHER NAME(S): 2MASS J04570832+4527499; Swift J0457.1-4528					
FOUND: ROSAT 2006					
RIGHT ASCENSION ^[1]		04 ^h 57 ^m 08.32 ^s		DECLINATION ^[1]	
				+45° 27' 50.01"	
PARALLAXES (mas) ^[1]		0.487 ± 0.140		DISTANCE (pc) ^[2]	
				2017.567	
DISTANCE BOUNDARIES (pc) ^[2]			Lower = 1510.254		Upper = 2960.032
MAGNETIC FIELD (MG)			...		...
ORBITAL PERIOD (P_o)			SPIN PERIOD (P_s) ^[4]		
DAYS	HOURS	MINUTES	HOURS	MINUTES	SECONDS
0.2578	6.188	371.3	0.33852	20.3117	1218.7
OPTICAL (CRTS MAGNITUDE)					
...		
OTHER INFORMATION					

SUMMARY

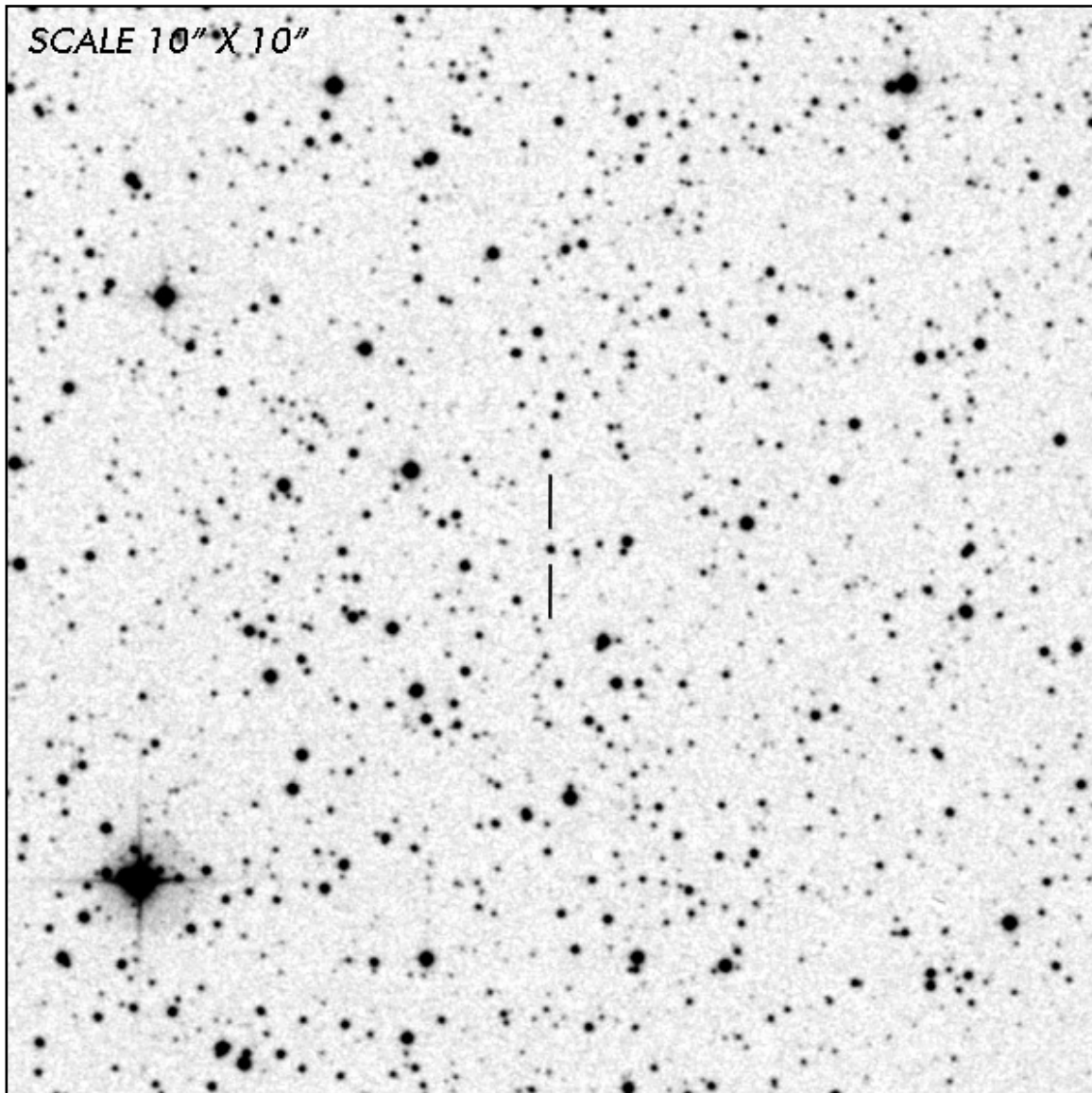
EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2008, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", ApJ, Vol. 156, 58](#)
- ³ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁴ [Koji, Mukai 2014, The Catalog of IPs and IP Candidates by Right Ascension](#)
- ⁵ [Kaplan, D. L. et al. 2006, "An X-Ray Search for Compact Central Sources in Supernova Remnants. II. Six Large-Diameter SNRs", ApJ, Vol. 163, Iss. 2, pp. 344](#)
- ⁶ [Thorstensen, J. R. & Halpern, J. 2013, "Optical and X-Ray Studies of 10 X-Ray-selected Cataclysmic Binaries", AJ, Vol. 146, Iss. 5, pp. 19](#)

Intermediate Polar
Date of Issue: 11/21/2019
Revision Date: 09/30/2021



NOTES

RIGHT ASCENSION

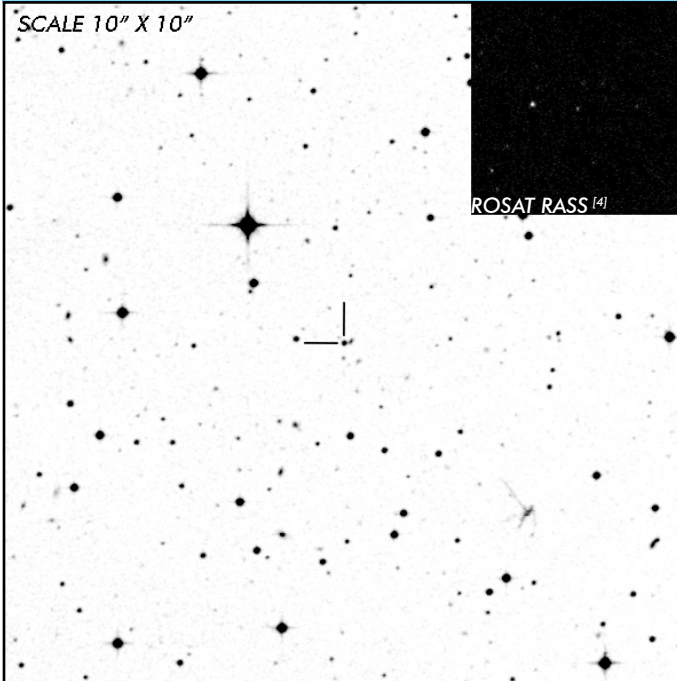
05 HOURS



HY Eri

Eclipsing Period Gap Polar

OBSERVATION DATA



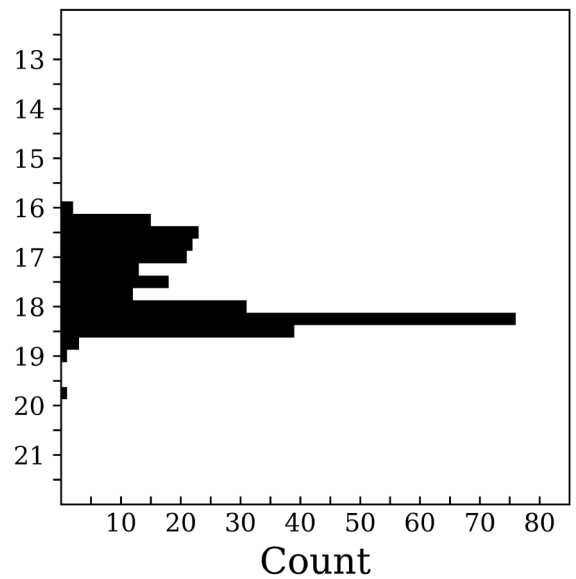
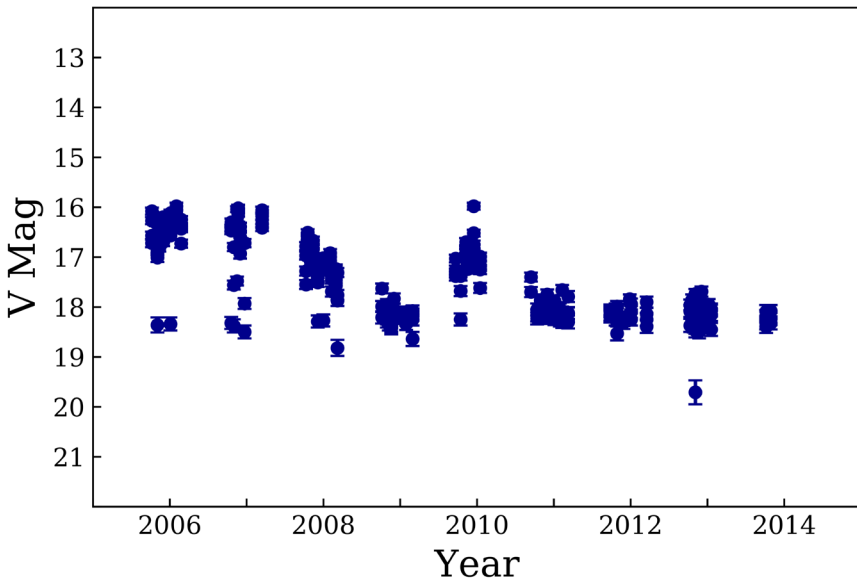
OTHER NAME(S): 1RXS J050146.2-035927			
FOUND: RASS 2016			
RIGHT ASCENSION ^[1]	05 ^h 01 ^m 46.41 ^s	DECLINATION ^[1]	-03° 59' 20.57"
PARALLAXES (mas) ^[1]	-0.136 ± 0.824	DISTANCE (pc) ^[2]	1344.141
DISTANCE BOUNDARIES (pc) ^[2]		Lower = 829.04	Upper = 2190.35
MAGNETIC FIELD (MG) ^[3]		B ₍₁₎ = 25	... ..
WD MASS (M _⊙)	0.42		
ORBITAL PERIOD & SPIN PERIOD			
DAYS	HOURS	MINUTES	
0.11897	2.8553	171.315	
OPTICAL (CRTS MAGNITUDE)			
V _{HIGH} = 16	V _{LOW} = 19	V ₍₁₎ = 18.25	...
OTHER INFORMATION			

SUMMARY

CRTS PHOTOMETRY

HY Eri

n = 277

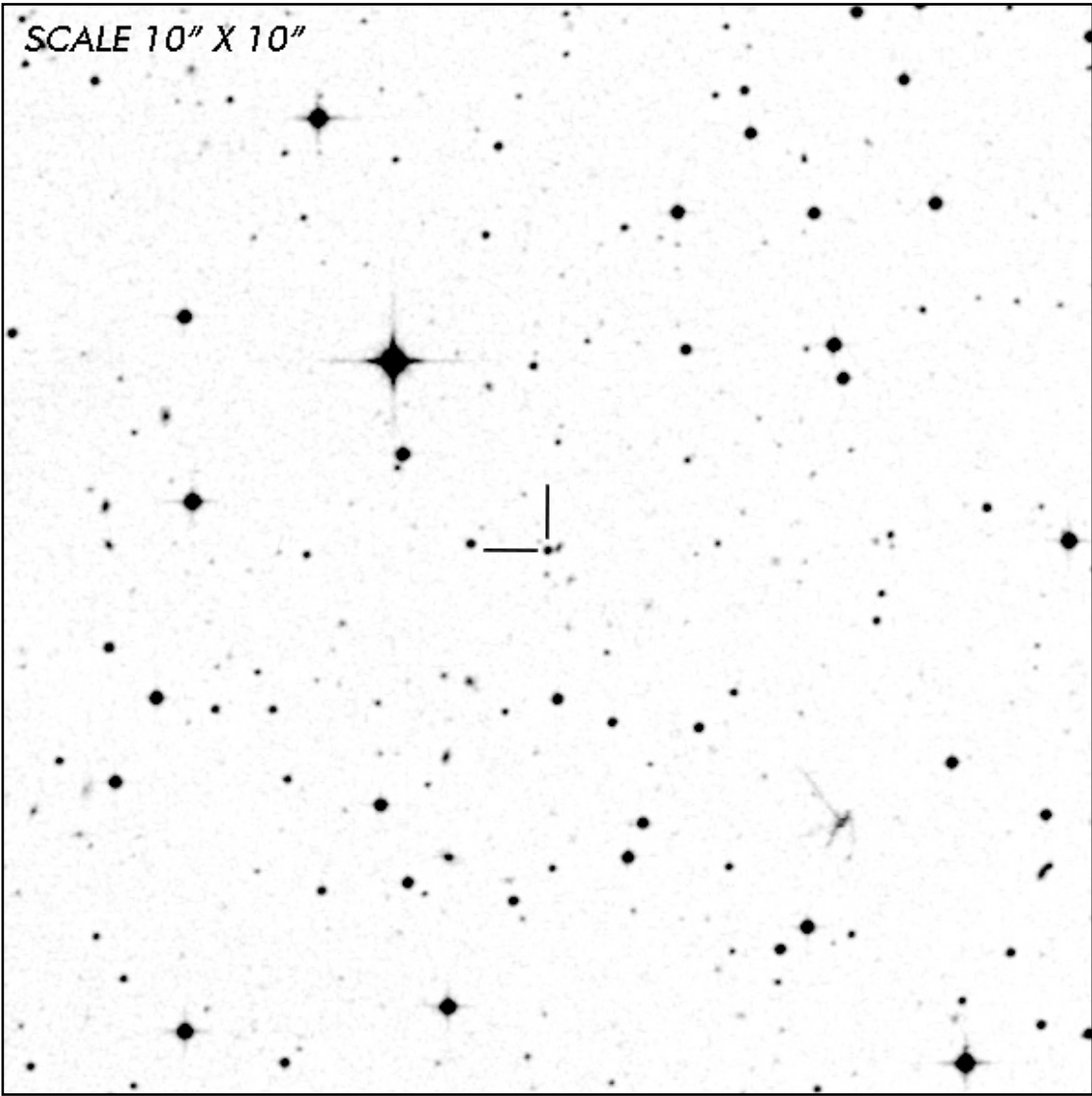


EXTERNAL LINKS



REFERENCES

- ¹ [Gaia Collaboration et al. \(2018b\): Summary of the contents and survey properties](#)
- ² [Bailer-Jones et al. 2018, "Estimating Distance from Parallaxes, IV. Distances to 1.33 Billion Stars in Gaia Data Release 2", *ApJ*, Vol. 156, 58](#)
- ³ [Burenin, R. A. et al. 2016, "Sample of Cataclysmic Variables Detected in the 400d X-ray Survey", *Astron. Lett*, Vol. 42, Iss. 4, pp. 240-250](#)
- ⁴ [HEASARC Skyview: ROSAT All-Sky](#)
- ⁵ [Beuermann, K. et al. 1999, "Identification of Soft High Galactic Latitude RASS X-ray Sources. II. Sources with PSPC Count Rate CR < 0.5 cts/s", *A&A*, Vol. 347, p. 47-54](#)
- ⁶ [Beuermann, K. et al. 2020, "Neglected X-ray Discovered Polars. II. The Peculiar Eclipsing Binary HY Eridani", *A&A*, Vol. 634, pp. 17](#)
- ⁷



NOTES

GLOSSARY

Asynchronous Polars	These polars have a white dwarf spin period that are up to a few percent different (longer or shorter) than the binary orbital period. These are probable only temporary APs as they all are moving towards synchronization.
EUVE	Extreme Ultraviolet Explorer
HEAO	High Energy Astronomy Observatory
INTEGRAL	INTErnational Gamma-Ray Astrophysics Laboratory
Intermediate Polars	The white dwarf magnetic field is not strong enough to disrupt the accretion disk in nearly all of the intermediate polars. The white dwarf spin period often spins much faster than the binary orbital period. This is due to mass accretion from the disk along the magnetic field lines that results in the spin-up of the white dwarf.
Low Accretion Rate Polars/ Pre-Polars	These polars show evidence for strong magnetic fields but very low level accretion and some may be evolving to become polars for the first time. The latter are called pre-polars.
Low Luminosity Intermediate Polars	These IPs accrete at a much lower rates than the normal IPs.
ROSAT	Röntgensatellit
RBSC	ROSAT Bright Source Catalog
RXTE	Rossi X-Ray Timing Explorer
SDSS	Sloan Digital Sky Survey
Synchronous Polar	Polars that have a white dwarf spin period that is equal to the binary orbital period. This is because the white dwarf's magnetic field is strong enough to synchronous the white dwarf's rotation to the binary orbit.
Transitional Intermediate Polars	These IPs are undergoing a transition from an IP to a polar. They have white dwarf rotation rates that are not too different than their orbital periods. They are the only IPs to have magnetic fields similar to polars, as measure by polarization and some TIPs, accrete by a stream rather than a disk or combination of a disk and stream.
ZTF	Zwicky Transient Facility