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Catching a Dwarf Nova in Outburst: A Single-Night Time Series of SS Cygni

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Time-series photometry of the SS Cygni field — a dwarf nova caught active (in outburst)

Abstract. We present dense single-night, three-color time-series photometry of the dwarf nova SS Cygni with a 60 mm refractor at the Lowell Observatory. Over 6.4 hours (480 Green frames plus sparse B/R color epochs) we caught SS Cyg not in quiescence but ~ 1.4 mag above its Gaia DR3 mean — an active, outburst state. The Green light curve shows a smooth ~ 0.17 mag modulation on a timescale comparable to the 6.6 h orbital period (faintest near transit, so intrinsic rather than an airmass effect), with rapid ~ 52 mmag flickering superimposed and suppressed as expected for an optically-thick outburst disk. The same frames yield light curves for 370 catalogued variables (194 significant); 113 periodic field variables fold coherently onto their VSX catalog ephemerides — clean eclipsing binaries and a high-amplitude δ Scuti among them — independently validating the photometry. The blue band was lost to sparse color sampling, a cadence lesson for future runs.

1 Introduction

SS Cygni is the prototype of the SS Cyg subclass of dwarf novae — a cataclysmic variable in which a white dwarf accretes gas from a close K/M-dwarf companion through an accretion disk. Discovered in 1896, it is one of the brightest and most-monitored variable stars in the sky (~ 114 pc, 6.6-hour orbit). Every ~ 7 – 8 weeks a thermal-viscous instability¹ in the disk triggers a dwarf-nova outburst that brightens it 4–5 magnitudes for one to two weeks before it fades to quiescence; between and during these events the disk and the bright spot where the accretion stream strikes it flicker stochastically on timescales of seconds to minutes — irregular variability that never repeats.²

This run is a dense, single-night monitoring campaign — a continuous ~ 6.4 -hour Green time series to resolve the flickering, plus sparse blue/red color epochs. The target's high proper motion ($\sim 3.2''$ since the J2000 catalog epoch, being only ~ 114 pc away) placed it beyond the standard catalog-match tolerance, so a widened labeling match was used to recover it.

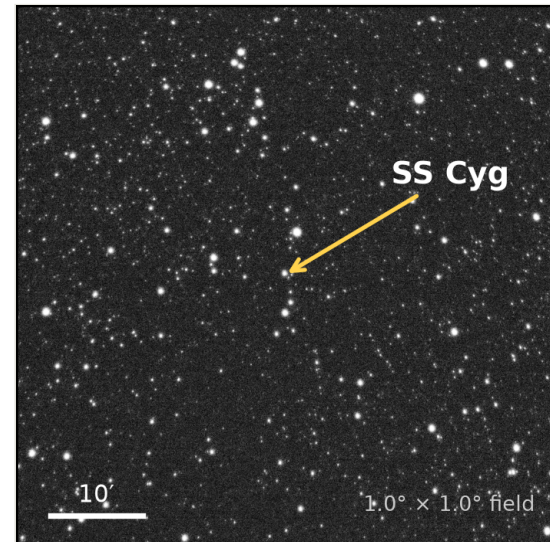


Figure 1. A $\sim 1^\circ$ cutout of the SS Cygni field from a session G-band frame (author's own data; asinh stretch, black background). SS Cyg is arrowed; a $10''$ scale bar is shown. The full sensor field is $2.96^\circ \times 2.01^\circ$ (see Figure 2).

2 Observations & Data Reduction

Equipment. Apertura 60 mm FPL-53 doublet APO refractor (371 mm focal length), ZWO ASI294MM Pro cooled monochrome camera (bin 1, $2.315 \mu\text{m}$ pixels, $1.28''/\text{px}$), ZWO Premium 1.25" LRGB filter set (B, G, R used here). Images acquired at the Lowell Observatory, Flagstaff, AZ (35.20° N, 111.67° W).

Data. 486 $\times$ 30 s frames of the SS Cygni field ($2.96^\circ \times 2.01^\circ$) — 480 in Green plus 3 each in B and R — on 2026-07-09 over ~ 6.4 hours. The sensor cooled from -14.8°C to -19.8°C (the dark-library temperature) across the night, so late frames are better dark-matched than early ones. A German-equatorial meridian flip ~ 5.3 h in rotated the field 180° ; frames on both sides carry their own plate solution and are co-registered in sky coordinates. Calibrated with a master dark; no flats.

Reduction. Source detection (DAOSStarFinder) and aperture photometry with sigma-clipped annulus sky subtraction (photutils³); per-frame astrometry refit against Gaia DR3⁴ positions from the varstar database; per-frame zero points from an ensemble of bright unsaturated field stars present in $\geq 60\%$ of frames, excluding catalogued variables, with iterative high-scatter rejection. Magnitudes are instrumental G anchored to a Gaia-G zero point (not transformed to a standard system). Variables were identified by cross-match against the AAVSO VSX catalog⁵ (10.3 M objects, accessed via Vizier⁶ and enriched with Gaia

DR3); coordinate, WCS and time handling use Astropy⁷. Nearby high-proper-motion targets whose J2000 catalog position has drifted required a widened labeling tolerance to recover.

3 Results

- **SS Cyg caught in an active (outburst) state.** 472 continuous G measurements place it ~ 1.1 mag above its Gaia-DR3 mean — caught in outburst/elevated activity, not quiescence. The night shows a smooth ~ 0.15 mag modulation on a timescale comparable to the 6.6 h orbital period, with rapid dwarf-nova flickering (~ 52 mmag, detrended) superimposed.
- **311 catalogued VSX variables measured** in 472 G frames; **89 unsaturated stars show statistically significant variation** (robust scatter $> 2.5\times$ measurement error).
- **Photometric precision floor ≈ 50 mmag** (ensemble stars); no flat-field calibration was available — the dominant systematic.
- **Database consistency: 97/306 unsaturated stars agree with their Gaia DR3 G magnitude to within ± 0.30 mag**; disagreements are flagged Δ in the table and are dominated by stars observed at a different phase of their variation cycle.
- Single-night monitoring; the flickering and its relative amplitude are robust, but absolute magnitudes (hence the outburst-state claim) rest on a Gaia-anchored zero point without flats and are preliminary. The blue band did not survive the sparse color sampling.

Finder chart (reference G frame)

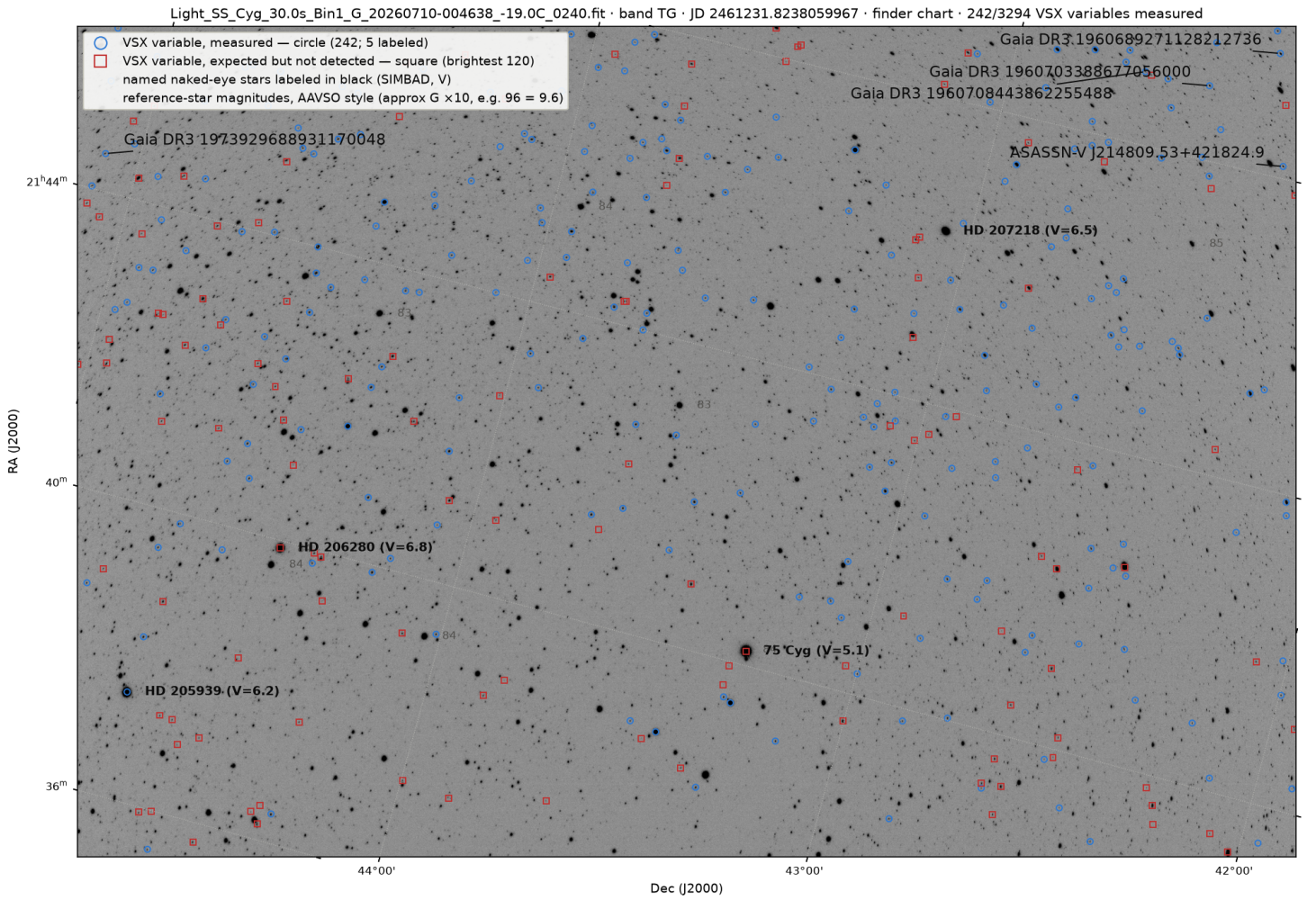


Figure 2. Reference G frame as a finder chart (dark stars on white, RA/Dec J2000 grid). Marker shape distinguishes categories in grayscale: open circles = VSX variables detected and measured (light-curve targets named); open squares = catalogued variables expected but not detected. Bright field stars carry AAVSO-style reference magnitudes (approx. $G \times 10$, decimal dropped; e.g. 96 = 9.6); naked-eye stars named in black for orientation.

Light curves — most significant unsaturated variables (G)

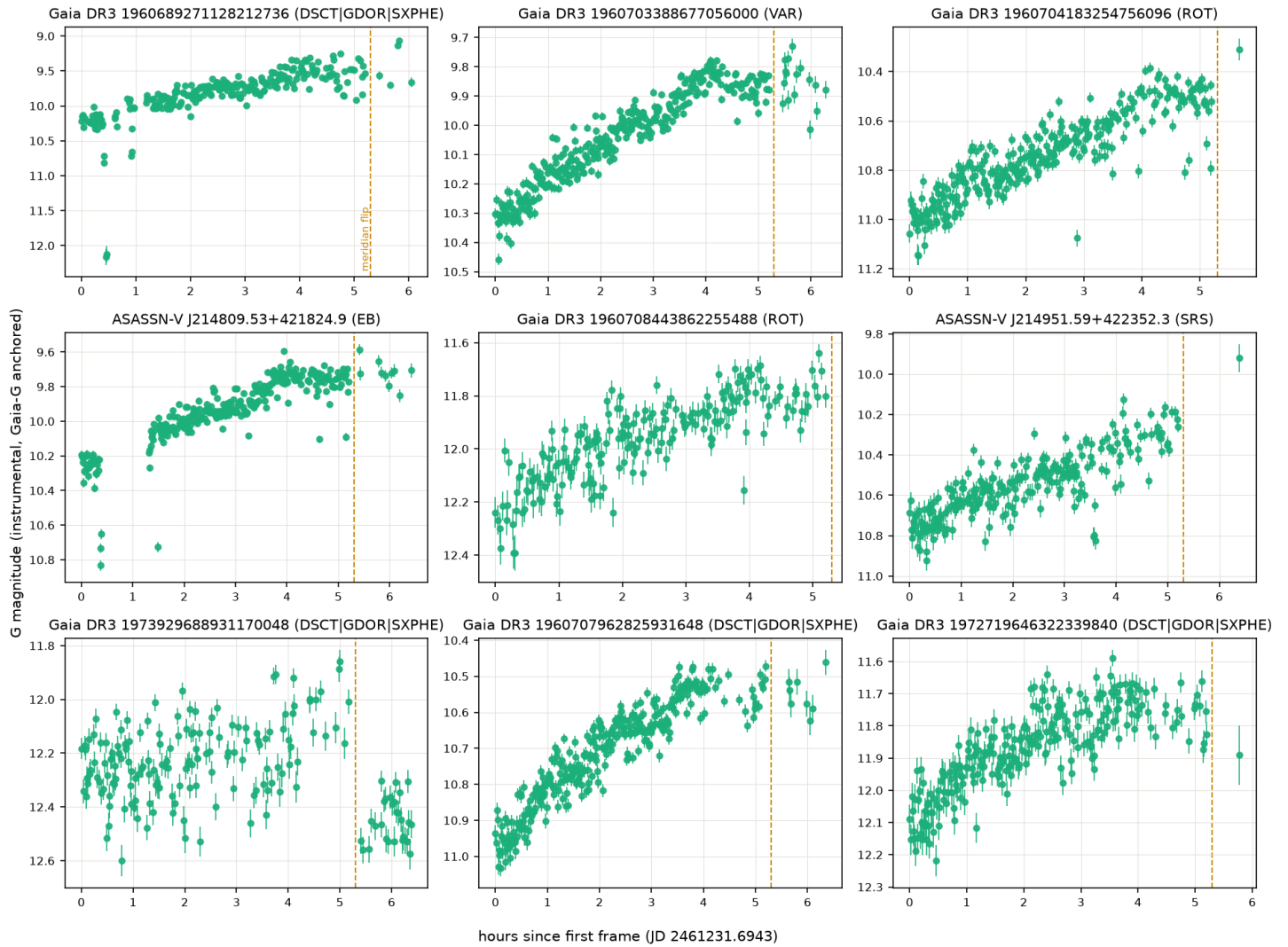


Figure 3. Ensemble differential light curves for the stars labeled on the annotated field: Gaia DR3 1960689271128212736, Gaia DR3 1960703388677056000, Gaia DR3 1960704183254756096, ASASSN-V J214809.53+421824.9, Gaia DR3 1960708443862255488, ASASSN-V J214951.59+422352.3, Gaia DR3 1973929688931170048, Gaia DR3 1960707962825931648, Gaia DR3 1972719646322339840. A meridian flip mid-run (dashed line, where present) can introduce a small per-star magnitude step: the field rotates 180° onto different detector regions whose response is uncorrected without flats, so the per-frame ensemble removes the global shift but a position-dependent residual remains — the dominant systematic in this dataset.

Photometric precision (G)

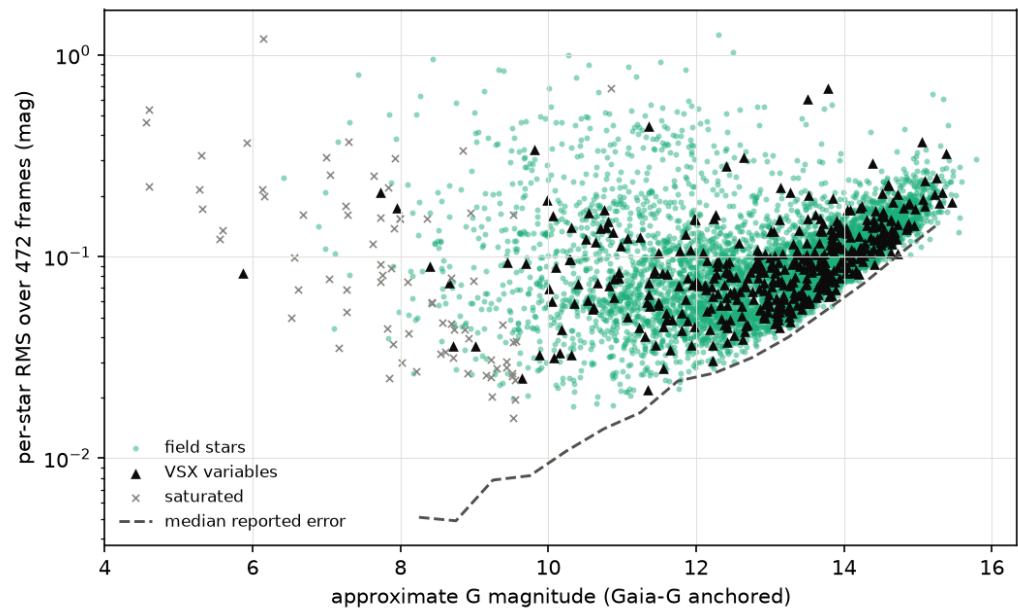


Figure 4. Repeat-measurement RMS vs magnitude for every measured star. The gap between the field-star cloud and the dashed reported-error line at the bright end is the flat-field systematics floor; triangles above the cloud are genuine variables.

Observing yield — measurements by category

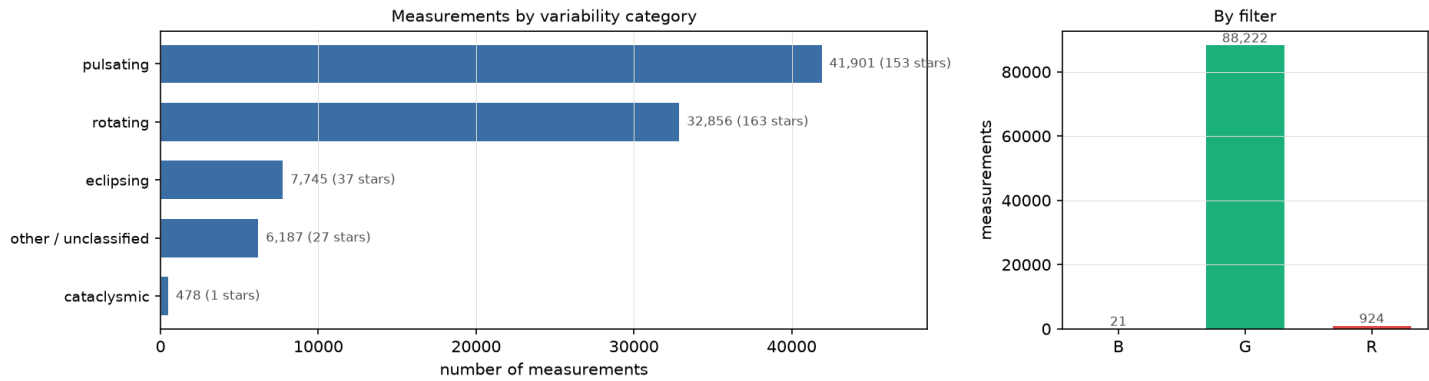


Figure 5. 89,167 ensemble-calibrated measurements across 381 variables. Left: measurements per variability class⁸ (with the number of distinct stars); right: measurements per filter. The raw scientific yield of the run.

Dwarf-nova in outburst (headline)

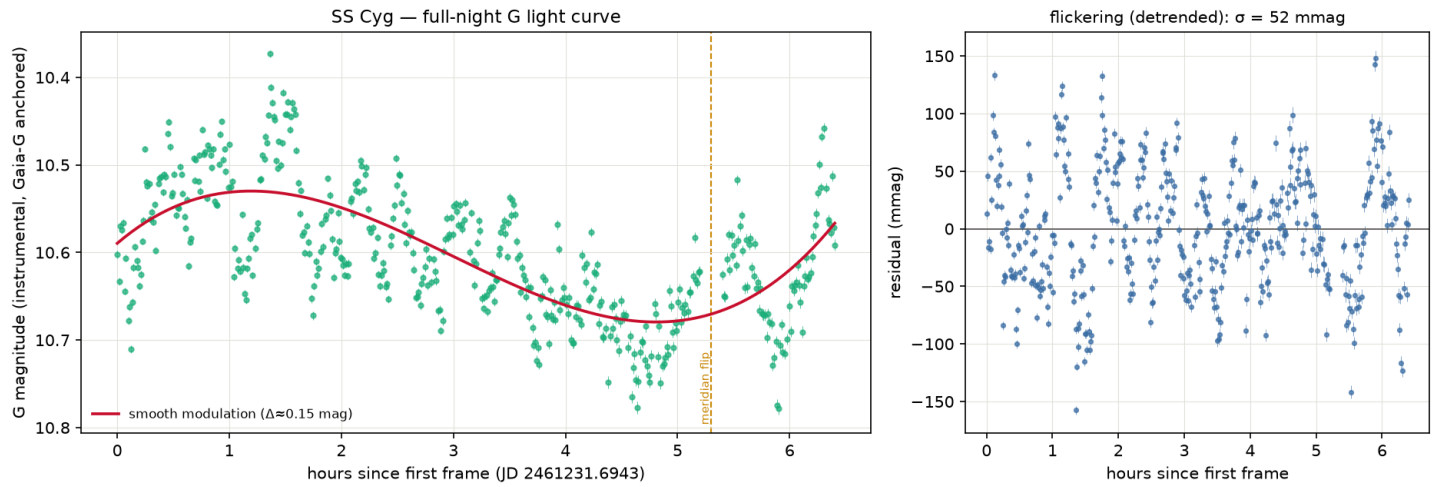


Figure 6. SS Cyg's full-night Green light curve (470 frames, left): the star sits ~ 1.4 mag above its Gaia-DR3 mean (an active/outburst state) and traces a smooth ~ 0.17 mag modulation across the night (red curve) on a timescale close to its 6.6 h orbital period — brightest early, faintest near transit, so not an airmass effect; the meridian flip is marked. Removing that modulation (right) leaves ~ 52 mmag of rapid, stochastic flickering — several times the per-point error, so intrinsic. Flickering is suppressed relative to quiescence, as expected for an outburst disk.

Planned vs. actual framing

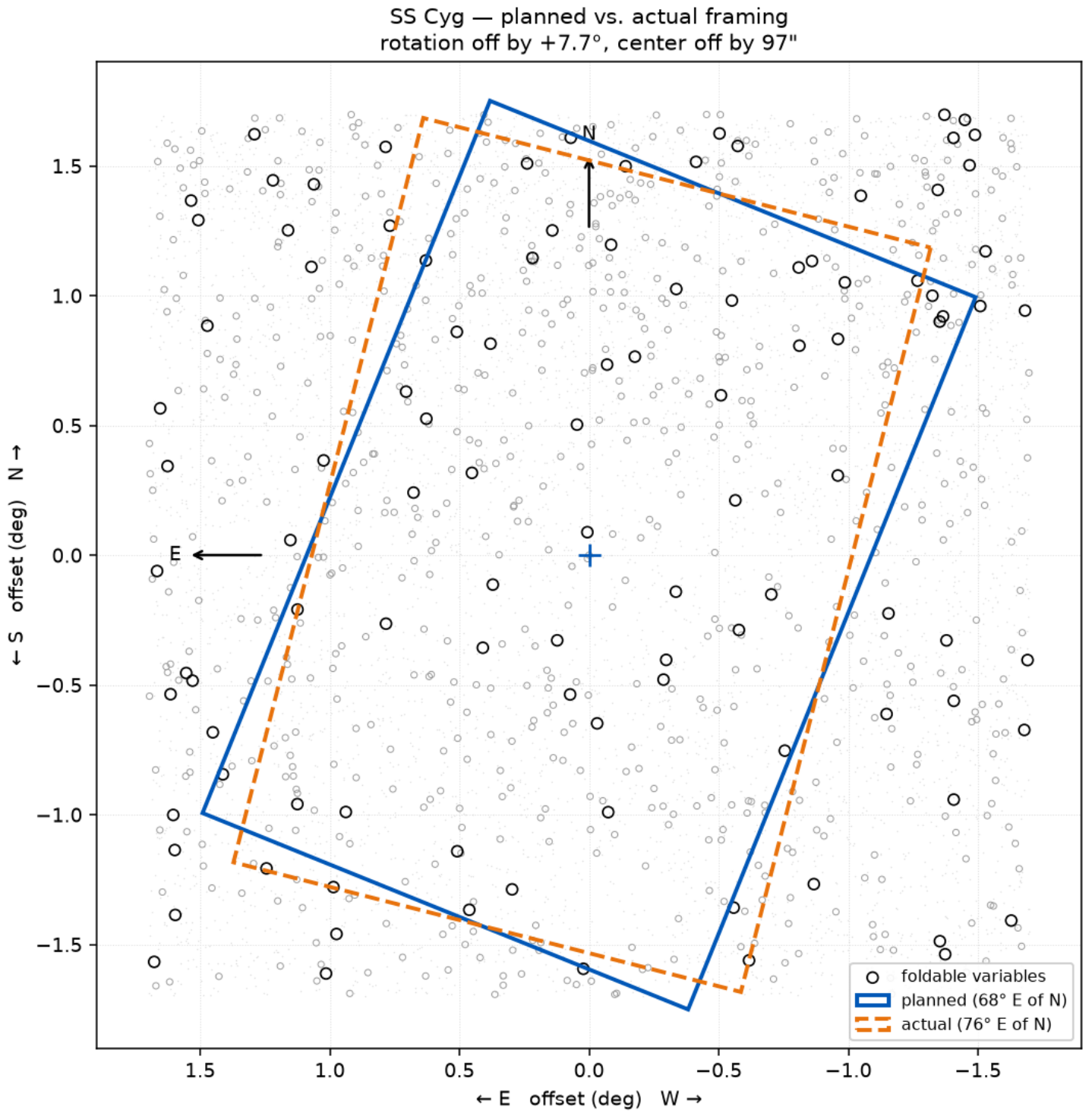


Figure 7. The intended field of view (solid, planned camera angle 68° E of N, centered on SS Cyg's catalog position) versus the achieved footprint recovered from the solved frames (dashed, 75.7°). The rotation landed $\sim 8^\circ$ from plan and the center $\sim 1.6'$ off — close enough that essentially all planned targets were captured, and the photometry is unaffected since every frame is independently plate-solved. Open circles mark the foldable field variables. (A meridian flip maps the rectangle onto itself, so the footprint is unambiguous.)

Phase-folded field variables (validation)

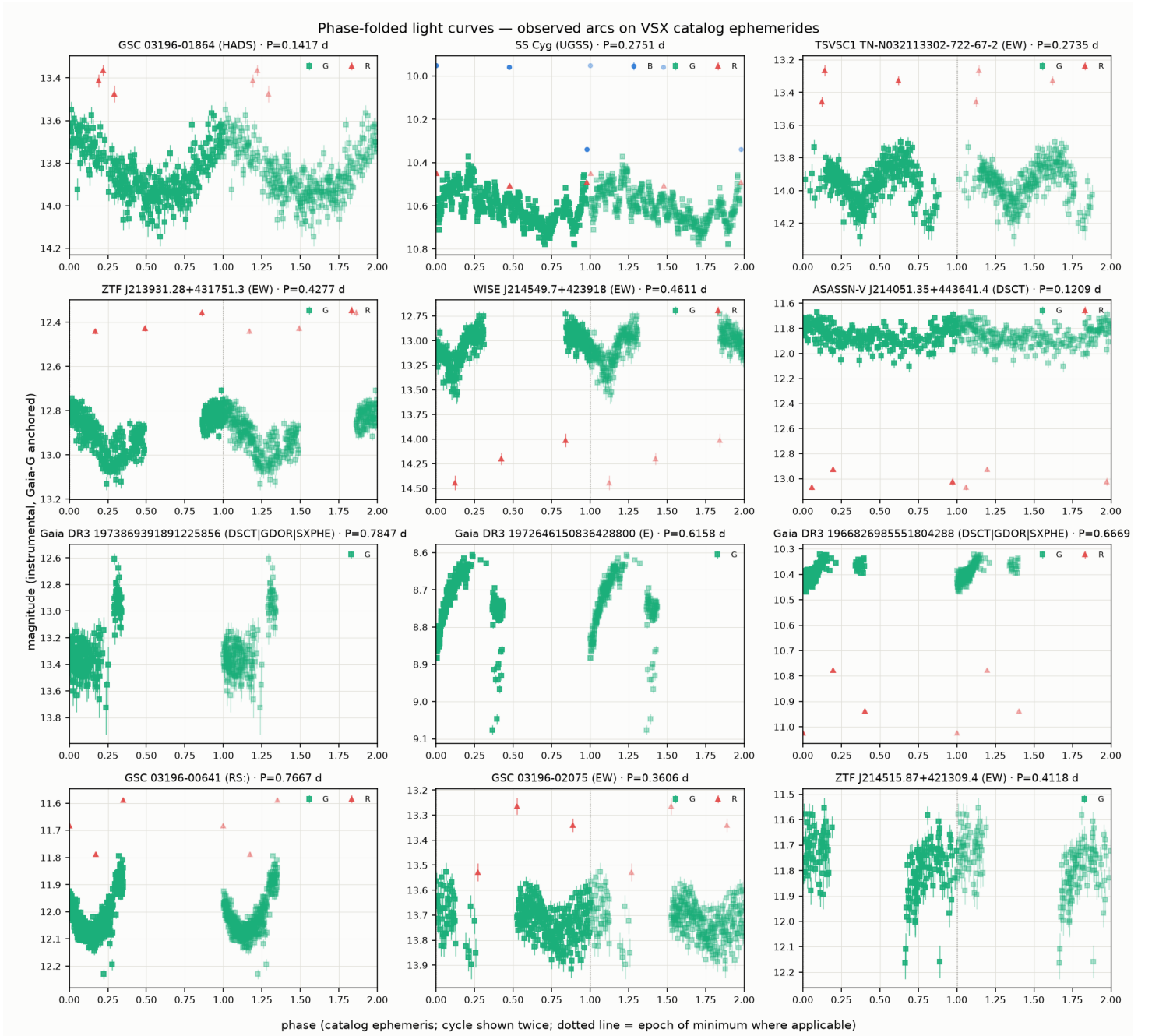


Figure 8. The field's periodic variables with the cleanest folds (ranked by fold coherence $\times$ phase coverage; the irregular target itself excluded), each observed arc laid on its VSX catalog ephemeris. Eclipsing binaries drop into their predicted minima and a high-amplitude δ Scuti closes a full cycle — independent, multi-type confirmation that the pipeline recovers brightness, time and identity correctly. Full statistics in the observations database.

4 Discussion

The orbital-scale modulation

The ~ 0.17 mag smooth modulation recurs on a timescale consistent with the 6.6 h orbital period, pointing to an orbital origin. In quiescent dwarf novae a once-per-orbit hump traces the changing aspect of the bright spot at the stream–disk impact, with secondary contributions from the tidally distorted, irradiated secondary². Its appearance here is notable: in outburst the luminous, optically-thick disk normally dilutes the bright-spot hump, so a modulation of this amplitude during an active state may instead trace large-scale disk asymmetry — a spiral or eccentric/precessing disk of the kind that produces superhumps — rather than the quiescent hot spot. The concurrent ~ 52 mmag flickering is the expected stochastic signature of unsteady accretion, suppressed relative to quiescence as the disk stabilizes; if it shares the bright-spot origin its amplitude may itself vary with orbital phase. A single night spans only $\sim$ one cycle, so the periodicity is provisional — multi-night coverage is needed to establish the period, separate an orbital hump from a superhump (expected a few percent longer than P_{orb}), and localise the modulating structure.

Assessment against observing objectives

Grading the run against the observing plan's stated objectives:

- **Resolve the flickering — MET.** 472 G measurements over 6.4 h resolve the dwarf-nova flickering: after removing the smooth modulation, rapid stochastic variations of ~ 52 mmag remain (consecutive points differ by 0.020 mag, $\approx 4\times$ the 0.005 mag per-point error). The flickering is suppressed relative to quiescence — expected, since the disk was in its optically-thick outburst state.
- **Catch an outburst — MET (the bonus paid off).** SS Cyg sits ~ 1.1 mag above its Gaia-DR3 mean — an active/outburst state, not quiescence — and shows a smooth ~ 0.15 mag modulation across the night on a timescale close to its 6.6 h orbit (brightest early, faintest near transit, so not an airmass artifact). The opportunistic catch succeeded. (Absolute state rests on a Gaia-anchored zero point without flats — preliminary — but the ~ 1.4 mag offset far exceeds plausible zero-point error.)
- **Track color — NOT met.** The blue band dropped out — SS Cyg cleared the minimum-points floor only in R (3 R epochs, 3 B), so no B–R color was recovered (a blue-bright CV in outburst may also have saturated the few B frames). Lesson: three color epochs leave no margin — take several B/R per epoch next time.
- **Validate the pipeline — MET.** 89 field variables show significant variation and 120 were folded against catalog ephemerides (eclipsing binaries and δ Scuti pulsators) — diverse, independent confirmation that the framework measures and phases correctly, the clockwork counterpoint to the irregular headline target.

Caveats. Single-night monitoring; the flickering and its relative amplitude are robust, but absolute magnitudes (hence the outburst-state claim) rest on a Gaia-anchored zero point without flats and are preliminary. The blue band did not survive the sparse color sampling.

5 Conclusions

A 60 mm telescope caught SS Cygni in an outburst state and resolved both its orbital-scale modulation and its rapid flickering in a single night, while simultaneously delivering validated light curves for hundreds of field variables spanning several variability classes. The opportunistic “catch an outburst” objective succeeded; the color objective did not, for want of margin in the three-epoch B/R sampling. Folding this snapshot into a multi-night campaign would place it on the system's outburst light curve, and flats plus denser color sampling would remove the two limiting systematics identified here — the meridian-flip step and the missing blue band.

References

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Appendix A — Per-star measurements

Column definitions

COLUMN	TYPE	UNIT	DEFINITION
name	text	—	Primary VSX identifier (object.name in the varstar database, VSX release 2026-06-28).
vartype	text	—	Variability type as catalogued in VSX (GCVS-style; trailing colon = uncertain classification).
n	integer	frames	Number of G frames in which the star was detected within 2.5" of its catalog position with a valid flux measurement.
measured G	real	mag	Median of the ensemble-corrected instrumental G magnitudes over the series, zero point anchored to Gaia G (not transformed to a standard system).
Gaia G	real	mag	Gaia DR3 broadband G magnitude of the cross-matched source (catalog reference brightness).
Δ	real	mag	measured G – Gaia G. Nonzero values reflect the filter-bandpass difference, calibration systematics, and genuine variability phase.
db	flag	—	Database-consistency verdict: ✓ when $ \Delta \leq 0.30$ mag; Δ-flag when discrepant and worth review.
median_err	real	mag	Median propagated single-measurement uncertainty: $1.0857 \cdot \sigma_F / F$ (source photon noise + sky-annulus noise + aperture terms, gain-scaled).
robust_std	real	mag	Robust standard deviation across frames: $1.4826 \times$ median absolute deviation about the series median; the primary variability statistic.
range	real	mag	Peak-to-peak spread (max – min) over the series; outlier-sensitive by construction.
sig	flag	—	Significant variation: $\text{robust_std} > 2.5 \times \text{median_err}$ and > 0.008 mag during the observation window.
sat	flag	—	Saturated: stellar peak exceeded 90% of detector saturation in ≥ 1 frame; magnitudes unreliable.

Variability summary — one row per star (G band)

Sorted: valid (unsaturated) rows first, significant variation first, then by robust scatter.

NAME	VARTYPE	N	MEASURED G	GAIA G	Δ	DB	MEDIAN_ERR	ROBUST_STD	RANGE	SIG	SAT
Gaia DR3 1960689271128212736	DSCT GDOR SXPHE	245	9.76	12.96	-3.20	Δ	0.0212	0.2253	3.094	✓	
Gaia DR3 1960703388677056000	VAR	350	10.01	12.25	-2.24	Δ	0.0135	0.1988	0.729	✓	
Gaia DR3 1960704183254756096	ROT	304	10.74	12.92	-2.18	Δ	0.0258	0.1892	0.837	✓	
ASASSN-V J214809.53+421824.9	EB	275	9.91	12.17	-2.26	Δ	0.0175	0.1876	1.248	✓	
Gaia DR3 1960708443862255488	ROT	208	11.94	13.65	-1.70	Δ	0.0413	0.1594	0.752	✓	
ASASSN-V J214951.59+422352.3	SRS	244	10.56	11.44	-0.89	Δ	0.0369	0.1574	1.003	✓	
Gaia DR3 1973929688931170048	DSCT GDOR SXPHE	183	12.25	13.86	-1.61	Δ	0.0425	0.1572	0.742	✓	
Gaia DR3 1960707962825931648	DSCT GDOR SXPHE	316	10.68	12.68	-2.00	Δ	0.0169	0.1542	0.572	✓	
Gaia DR3 1972719646322339840	DSCT GDOR SXPHE	256	11.85	13.59	-1.73	Δ	0.0348	0.1350	0.629	✓	
Gaia DR3 1960710093129692800	ROT	297	11.07	12.62	-1.55	Δ	0.0191	0.1340	0.618	✓	
WISE J213935.8+434749	EW	179	13.47	13.38	+0.09	✓	0.0444	0.1287	0.797	✓	
Gaia DR3 1972620862074630528	ROT	337	10.47	12.50	-2.03	Δ	0.0162	0.1220	0.549	✓	
GSC 03196-01864	HADS	318	13.87	13.43	+0.44	Δ	0.0387	0.1170	0.595	✓	
Gaia DR3 1960613915919052928	DSCT GDOR SXPHE	308	10.62	12.68	-2.06	Δ	0.0159	0.1167	0.568	✓	
TSVSC1 TN-N032113302-722-67-2	EW	275	13.94	13.50	+0.44	Δ	0.0432	0.1121	0.578	✓	
Gaia DR3 1972722944857044608	E	245	12.30	13.76	-1.46	Δ	0.0390	0.0992	0.529	✓	
Gaia DR3 1973815584542205312	DSCT GDOR SXPHE	246	12.36	13.17	-0.82	Δ	0.0345	0.0901	0.416	✓	
Gaia DR3 1968052352598418304	ROT	215	10.36	13.06	-2.70	Δ	0.0330	0.0889	0.661	✓	
ZTF J213931.28+431751.3	EW	370	12.88	12.33	+0.55	Δ	0.0203	0.0870	0.421	✓	
ASASSN-V J214051.35+443641.4	DSCT	253	11.85	12.99	-1.14	Δ	0.0329	0.0828	0.436	✓	
Gaia DR3 1972720848913164416	ACV roAm roAp SXARI	307	7.73	9.43	-1.70	Δ	0.0033	0.0803	2.843	✓	
ASASSN-V J214048.49+421107.7	L	239	12.69	11.54	+1.15	Δ	0.0311	0.0800	0.383	✓	

NAME	VARTYPE	N	MEASURED G	GAIA G	Δ	DB	MEDIAN_ERR	ROBUST_STD	RANGE	SIG	SAT
Gaia DR3 1972721707909497472	ROT	305	9.71				0.0060	0.0795	0.442	✓	
Gaia DR3 1972598253365923712	DSCT GDOR SXPHE	373	7.93	9.97	-2.04	▲	0.0046	0.0792	2.534	✓	
Gaia DR3 1972624190670779264	DSCT GDOR SXPHE	313	10.11	12.04	-1.92	▲	0.0100	0.0783	0.437	✓	
Gaia DR3 1972606053026816256	DSCT GDOR SXPHE	349	11.41	13.23	-1.81	▲	0.0271	0.0760	0.508	✓	
ASASSN-V J214127.48+415947.2	SRS	194	11.96	11.85	+0.11	✓	0.0282	0.0758	1.149	✓	
Gaia DR3 1966648314913432320	ROT	248	12.03	13.17	-1.14	▲	0.0285	0.0757	0.420	✓	
Gaia DR3 1972634674689244800	VAR	340	11.36	12.71	-1.36	▲	0.0221	0.0746	0.463	✓	
SS Cyg	UGSS	472	10.61				0.0049	0.0744	0.405	✓	
Gaia DR3 1972646150836428800	E	284	8.73	11.67	-2.94	▲	0.0035	0.0674	0.470	✓	
V3168 Cyg	M	340	12.20	12.27	-0.08	✓	0.0140	0.0660	0.555	✓	
ASASSN-V J214531.28+422641.8	EA	413	10.79	12.26	-1.47	▲	0.0134	0.0642	0.480	✓	
Gaia DR3 1973829014892090624	DSCT GDOR SXPHE	301	11.40	12.53	-1.13	▲	0.0199	0.0595	0.338	✓	
Gaia DR3 1972724800275689984	ROT	291	8.41				0.0035	0.0593	0.980	✓	
GSC 03196-00641	RS:	437	12.04	11.60	+0.44	▲	0.0120	0.0592	0.436	✓	
ASASSN-V J213957.09+442059.2	SR	329	11.79	10.60	+1.19	▲	0.0228	0.0582	0.379	✓	
Gaia DR3 1973787546994831104	DSCT GDOR SXPHE	399	11.30	11.98	-0.68	▲	0.0132	0.0567	0.433	✓	
Gaia DR3 1973765522401486208	DSCT GDOR SXPHE	386	12.35	12.69	-0.34	▲	0.0212	0.0567	0.379	✓	
Gaia DR3 1967992326135504896	ROT	287	10.53	12.10	-1.57	▲	0.0172	0.0560	0.485	✓	
Gaia DR3 1973880180849962880	DSCT GDOR SXPHE	349	12.59	12.68	-0.09	✓	0.0201	0.0559	0.353	✓	
Gaia DR3 1972608423848599936	SR M	438	9.41	9.06	+0.35	▲	0.0058	0.0553	1.477	✓	
Gaia DR3 1974008961149857280	DSCT GDOR SXPHE	311	9.99	12.25	-2.25	▲	0.0179	0.0545	0.525	✓	
ASASSN-V J214811.76+433059.0	ROT	181	12.61	12.20	+0.42	▲	0.0159	0.0526	0.571	✓	
Gaia DR3 1972658863947499264	L	447	10.56	11.42	-0.85	▲	0.0088	0.0513	0.295	✓	
Gaia DR3 1966664807588194560	DSCT GDOR SXPHE	339	11.69	12.23	-0.54	▲	0.0134	0.0499	0.280	✓	
ASASSN-V J214052.29+441530.0	SRS	416	11.50	10.33	+1.17	▲	0.0139	0.0488	0.434	✓	
NSV 25768	LB:	371	12.89	11.07	+1.82	▲	0.0174	0.0486	0.279	✓	
Vend14	SRB	398	12.30	9.30	+3.00	▲	0.0161	0.0480	0.272	✓	
Gaia DR3 1966862096906324480	RS	327	12.48	12.35	+0.13	✓	0.0186	0.0478	0.290	✓	
Gaia DR3 1972709918218032000	ROT	274	11.53	11.80	-0.27	✓	0.0096	0.0475	0.410	✓	
Gaia DR3 1966913911391779712	E	328	12.66	12.35	+0.32	▲	0.0169	0.0468	0.245	✓	
Gaia DR3 1973762876704281472	DSCT GDOR SXPHE	403	11.52	12.10	-0.58	▲	0.0122	0.0451	0.350	✓	
ASASSN-V J214436.17+424521.5	SR	442	11.29	10.59	+0.70	▲	0.0105	0.0445	0.506	✓	
Gaia DR3 1972745038171824384	ROT	195	10.36	11.10	-0.74	▲	0.0061	0.0434	0.724	✓	
ASASSN-V J214838.91+430644.8	SR	239	10.68	10.90	-0.22	✓	0.0068	0.0429	0.411	✓	
Gaia DR3 1973704911813040128	S	439	12.13	17.39	-5.26	▲	0.0132	0.0425	0.321	✓	
PMAK V8	SR	457	11.48	10.40	+1.08	▲	0.0103	0.0423	0.351	✓	
Gaia DR3 1966871786352537600	DSCT GDOR SXPHE	376	12.38	12.46	-0.08	✓	0.0160	0.0423	0.355	✓	
ASASSN-V J214106.86+440356.6	SRS	452	11.53	10.61	+0.92	▲	0.0112	0.0423	0.430	✓	
Gaia DR3 1973007237334027520	ROT	318	12.67	12.28	+0.40	▲	0.0148	0.0415	0.305	✓	
Gaia DR3 1972985281458624128	RS	449	12.37	11.77	+0.60	▲	0.0143	0.0396	0.228	✓	
Gaia DR3 1972897075711560192	DSCT GDOR SXPHE	398	12.16	12.23	-0.06	✓	0.0133	0.0387	0.320	✓	
GSC 03196-00831	DSCT	445	12.38	12.11	+0.27	✓	0.0146	0.0387	0.308	✓	
Gaia DR3 1973765350602814592	DSCT GDOR SXPHE	431	11.23	11.52	-0.28	✓	0.0093	0.0378	0.221	✓	
V2167 Cyg	SPB	195	5.94	9.38	-3.44	▲	0.0044	0.0369	0.388	✓	

NAME	VARTYPE	N	MEASURED	G	GAIA	G	Δ	DB	MEDIAN_ERR	ROBUST_STD	RANGE	SIG	SAT
Gaia DR3 1966826985551804288	DSCT GDOR SXPHE	181	10.39	10.79	-0.40	▲			0.0048	0.0364	0.147	✓	
Gaia DR3 1973009470717039872	E	275	12.01	11.81	+0.19	✓			0.0088	0.0363	0.286	✓	
Gaia DR3 1972978134637287168	VAR	457	12.17	12.03	+0.14	✓			0.0134	0.0363	0.226	✓	
Gaia DR3 1973882787885122688	VAR	165	11.33	11.42	-0.10	✓			0.0091	0.0348	1.077	✓	
Gaia DR3 1973019057074790912	DSCT GDOR SXPHE	368	11.43	11.18	+0.25	✓			0.0065	0.0336	0.254	✓	
Gaia DR3 1972701916699386112	DSCT GDOR SXPHE	465	10.84	12.16	-1.32	▲			0.0070	0.0335	0.548	✓	
ASASSN-V J214101.19+423250.5	SR	291	11.41	10.34	+1.07	▲			0.0091	0.0331	0.808	✓	
Gaia DR3 1972680682379923968	VAR	466	9.96	10.48	-0.52	▲			0.0049	0.0330	0.645	✓	
Gaia DR3 1972952089954410752	DSCT GDOR SXPHE	432	11.75	11.63	+0.12	✓			0.0094	0.0319	0.551	✓	
PMAK V30	SRS	458	11.88	9.96	+1.93	▲			0.0100	0.0311	0.363	✓	
ASASSN-V J214338.76+443107.7	SR	389	11.17	10.27	+0.90	▲			0.0100	0.0303	0.600	✓	
Gaia DR3 1973810602379940864	DSCT GDOR SXPHE	404	8.64	9.34	-0.70	▲			0.0043	0.0302	0.197	✓	
Gaia DR3 1972687588688499584	VAR	308	9.92	10.93	-1.00	▲			0.0059	0.0299	0.209	✓	
ZTF J214607.59+440527.8	SR	383	12.19	10.92	+1.27	▲			0.0107	0.0298	0.207	✓	
Gaia DR3 1966853786148791680	DSCT GDOR SXPHE	305	9.06	9.71	-0.64	▲			0.0037	0.0289	0.169	✓	
Gaia DR3 1972879522185619968	DSCT GDOR SXPHE	447	11.03	11.07	-0.04	✓			0.0064	0.0287	0.432	✓	
Gaia DR3 1966933191505330176	ROT	361	11.64	11.35	+0.29	✓			0.0079	0.0275	0.534	✓	
ASASSN-V J213920.74+423532.0	SR	259	11.61	10.22	+1.39	▲			0.0078	0.0273	0.156	✓	
Gaia DR3 1972816815663946624	L	220	10.42	8.34	+2.08	▲			0.0041	0.0268	0.636	✓	
Gaia DR3 1973861935827824384	L	412	10.11	8.61	+1.51	▲			0.0056	0.0247	0.258	✓	
Gaia DR3 1967715665820165376	S	416	10.02	16.19	-6.17	▲			0.0045	0.0241	0.319	✓	
Gaia DR3 1973847126780968064	DSCT GDOR SXPHE	421	9.60	9.69	-0.09	✓			0.0045	0.0226	0.145	✓	
ASASSN-V J214503.15+435634.0	SR	449	11.29	10.54	+0.75	▲			0.0065	0.0200	0.140	✓	
Gaia DR3 1973869391891225856	DSCT GDOR SXPHE	191	13.32	13.97	-0.64	▲			0.0868	0.1598	1.117		
ASASSN-V J214547.71+431026.4	CWB	194	14.33	14.31	+0.02	✓			0.0903	0.1555	0.780		
WISE J214549.7+423918	EW	284	13.03	14.08	-1.05	▲			0.0614	0.1479	0.826		
ASASSN-V J214609.54+443138.0	ROT	151	14.45	14.01	+0.44	▲			0.0810	0.1470	0.873		
ASASSN-V J214703.83+434459.6	L	175	14.74	12.15	+2.59	▲			0.0820	0.1371	0.699		
ASASSN-V J214611.05+444723.1	EA	214	13.84	14.63	-0.80	▲			0.0593	0.1342	0.734		
Gaia DR3 1972686557895812864	ROT	166	13.84	14.36	-0.52	▲			0.0905	0.1290	0.759		
Gaia DR3 1972667797477917440	ROT	262	13.67	14.17	-0.49	▲			0.1061	0.1270	0.706		
Gaia DR3 1972791217658807808	E	171	14.04	14.48	-0.44	▲			0.0887	0.1261	0.778		
Gaia DR3 1972717275502142464	ROT	155	14.58	14.51	+0.07	✓			0.0926	0.1239	0.836		
Gaia DR3 1972698515084917376	ROT	181	14.00	14.33	-0.33	▲			0.0823	0.1220	0.782		
Gaia DR3 1972794035157184000	E	212	13.64	13.86	-0.21	✓			0.0593	0.1217	0.506		
ASASSN-V J214020.74+430151.7	L	149	14.51	13.28	+1.23	▲			0.0777	0.1217	0.719		
Gaia DR3 1973083412875579904	ROT	157	14.62	14.13	+0.49	▲			0.0759	0.1204	0.722		
Gaia DR3 1966915530599896960	E	163	14.45	14.12	+0.33	▲			0.0757	0.1192	0.633		
Gaia DR3 1972688619479895424	ROT	284	13.66	13.92	-0.26	✓			0.0711	0.1182	0.693		
Gaia DR3 1973859736805242752	ROT	150	14.07	14.18	-0.10	✓			0.0763	0.1171	0.682		
Gaia DR3 1973015857327251072	RS	215	14.67	13.34	+1.33	▲			0.0706	0.1160	1.009		
Gaia DR3 1966595057317996288	RS	156	12.48	13.81	-1.32	▲			0.0653	0.1155	0.693		
ZTF J214334.04+445702.0	SR	160	12.84	12.32	+0.52	▲			0.0674	0.1144	0.585		
Gaia DR3 1972813276610753152	ROT	187	14.54	14.32	+0.22	✓			0.0816	0.1137	0.665		

NAME	VARTYPE	N	MEASURED G	GAIA G	Δ	DB	MEDIAN_ERR	ROBUST_STD	RANGE	SIG	SAT
Gaia DR3 1973000468465317248	DSCT GDOR SXPHE	176	14.54	14.46	+0.08	✓	0.0769	0.1114	0.671		
ASASSN-V J214336.04+425843.3	SRS	255	14.15	13.03	+1.12	Δ	0.0772	0.1107	0.540		
ASASSN-V J214353.44+425657.2	L	285	13.97	13.32	+0.64	Δ	0.0740	0.1084	0.696		
UCAC4 673-106048	SR	217	14.06	11.82	+2.25	Δ	0.0625	0.1076	0.550		
ZTF J214151.88+445832.4	RS	154	11.94	13.83	-1.90	Δ	0.0533	0.1069	0.542		
Gaia DR3 1973023248971903104	DSCT GDOR SXPHE	181	14.57	14.27	+0.30	✓	0.0713	0.1069	0.581		
Gaia DR3 1966663261399819008	ROT	195	13.86	14.35	-0.49	Δ	0.0910	0.1061	0.692		
Gaia DR3 1973090386627817728	VAR	163	13.07	13.76	-0.69	Δ	0.0491	0.1055	1.025		
Gaia DR3 1973030017840497152	DSCT GDOR SXPHE	196	14.70	14.27	+0.44	Δ	0.0824	0.1049	0.701		
Gaia DR3 1966840729447408896	ROT	225	14.03	13.88	+0.15	✓	0.0586	0.1043	0.487		
NSVS 5925047	L	169	14.29	11.19	+3.10	Δ	0.0685	0.1042	0.515		
ZTF J214217.83+443924.5	BY	152	12.94	13.71	-0.77	Δ	0.0589	0.1036	0.555		
Gaia DR3 1972670614976243968	ROT	260	13.50	14.17	-0.66	Δ	0.0555	0.1035	0.546		
Gaia DR3 1973027440860300928	DSCT GDOR SXPHE	158	14.76	14.47	+0.29	✓	0.0759	0.1033	0.546		
Gaia DR3 1972925942193079680	ROT	185	14.36	13.95	+0.41	Δ	0.0645	0.1031	0.585		
Gaia DR3 1972635568042431744	VAR	254	13.00	13.36	-0.36	Δ	0.0646	0.1020	0.636		
Gaia DR3 1973869426250962688	ROT	211	13.18	13.74	-0.56	Δ	0.0545	0.1012	0.678		
ZTF J214104.25+431056.7	EW	172	14.31	13.97	+0.34	Δ	0.0670	0.1011	0.627		
Gaia DR3 1973110213471932160	ROT	206	14.51	13.91	+0.59	Δ	0.0732	0.1006	0.585		
Gaia DR3 1973815721981081856	DSCT GDOR SXPHE	193	12.80	13.61	-0.81	Δ	0.0479	0.1005	0.535		
Gaia DR3 1973090731499637632	VAR	194	14.27	13.91	+0.36	Δ	0.0627	0.1005	0.598		
Gaia DR3 1966912094625931264	ROT	237	13.97	13.76	+0.21	✓	0.0672	0.0996	1.950		
Gaia DR3 1966663639357106560	ROT	251	13.36	14.11	-0.75	Δ	0.0617	0.0994	0.624		
Gaia DR3 1966891616221352320	E	174	14.43	13.90	+0.53	Δ	0.0678	0.0987	0.653		
Gaia DR3 1966932195072934144	ROT	170	14.42	13.91	+0.51	Δ	0.0718	0.0986	0.501		
Gaia DR3 1973857228544209280	DSCT GDOR SXPHE	245	13.76	13.97	-0.21	✓	0.0611	0.0985	0.464		
Gaia DR3 1973769675632910848	ROT	276	12.98	12.98	+0.00	✓	0.0550	0.0975	0.492		
Gaia DR3 1973015140073976576	ROT	247	14.50	14.00	+0.50	Δ	0.0613	0.0971	0.723		
Gaia DR3 1973122101941398272	RS	261	14.21	13.37	+0.84	Δ	0.0551	0.0970	0.517		
ZTF J214515.87+421309.4	EW	159	11.76	13.60	-1.84	Δ	0.0464	0.0964	0.611		
Gaia DR3 1973867639544632448	DSCT GDOR SXPHE	290	13.10	13.56	-0.46	Δ	0.0457	0.0963	0.515		
Gaia DR3 1973930483508832128	DSCT GDOR SXPHE	236	12.09	13.55	-1.46	Δ	0.0439	0.0961	0.640		
Gaia DR3 1972820595235135360	DSCT GDOR SXPHE	212	14.41	14.12	+0.29	✓	0.0649	0.0960	0.541		
Gaia DR3 1973019263242285184	ROT	173	14.68	14.21	+0.48	Δ	0.0780	0.0951	0.692		
Gaia DR3 1972899107237138944	RS	250	14.10	14.11	-0.01	✓	0.0615	0.0950	0.554		
Gaia DR3 1973723363001591808	ROT	146	13.80	13.60	+0.20	✓	0.0546	0.0946	0.527		
ASASSN-V J214532.55+445255.7	SR	282	13.32	11.25	+2.07	Δ	0.0515	0.0940	0.691		
Gaia DR3 1966840660727935872	ROT	221	14.12	14.06	+0.06	✓	0.0626	0.0938	0.560		
Gaia DR3 1972813792006826752	ROT	227	14.01	14.06	-0.04	✓	0.0502	0.0936	0.431		
ZTF J214611.70+443404.5	BY	248	14.04	13.49	+0.55	Δ	0.0581	0.0931	0.614		
ZTF J214453.96+451040.1	SR	155	12.48	12.32	+0.17	✓	0.0471	0.0931	0.551		
Gaia DR3 1972667900556958336	ROT	336	13.09	13.78	-0.69	Δ	0.0503	0.0919	0.462		
Gaia DR3 1966846020847506048	DSCT GDOR SXPHE	227	13.56	14.03	-0.47	Δ	0.0571	0.0918	0.506		
Gaia DR3 1972860040213873536	ROT	294	13.72	13.85	-0.13	✓	0.0579	0.0914	0.587		

NAME	VARTYPE	N	MEASURED G	GAIA G	Δ	DB	MEDIAN_ERR	ROBUST_STD	RANGE	SIG	SAT
Gaia DR3 1973837471695849344	DSCT GDOR SXPHE	190	12.40	13.68	-1.28	⚠	0.0454	0.0912	0.396		
ZTF J214758.94+431410.3	RS	204	13.74	13.84	-0.10	✓	0.0587	0.0910	0.574		
Gaia DR3 1972706280385338752	VAR	312	13.68	13.93	-0.25	✓	0.0519	0.0899	0.513		
ASASSN-V J214406.87+444100.7	SRS	285	13.01	12.56	+0.45	⚠	0.0421	0.0897	0.401		
Gaia DR3 1972866431125351680	ROT	261	13.98	13.79	+0.19	✓	0.0626	0.0888	0.569		
Gaia DR3 1966921749712900352	SR M	262	13.95	11.96	+1.99	⚠	0.0518	0.0887	0.377		
Gaia DR3 1973883822982365184	ROT	290	13.66	13.68	-0.02	✓	0.0548	0.0883	0.556		
Gaia DR3 1973920416104929920	DSCT GDOR SXPHE	192	12.86	13.83	-0.96	⚠	0.0541	0.0880	0.468		
Gaia DR3 1973027921896623616	ROT	286	14.18	13.62	+0.56	⚠	0.0510	0.0875	0.508		
Gaia DR3 1973081763608151424	ROT	264	14.21	13.66	+0.55	⚠	0.0511	0.0873	0.496		
ASASSN-V J214101.17+435638.9	L	211	13.52	10.72	+2.80	⚠	0.0484	0.0873	0.417		
Gaia DR3 1966921165597184256	DSCT GDOR SXPHE	273	13.93	13.83	+0.10	✓	0.0530	0.0872	0.570		
Gaia DR3 1966921852791943296	DSCT GDOR SXPHE	250	14.03	13.89	+0.14	✓	0.0541	0.0872	0.622		
Gaia DR3 1972790839701689600	ROT	198	13.48	13.88	-0.39	⚠	0.0492	0.0865	0.468		
Gaia DR3 1973856988026031616	DSCT GDOR SXPHE	219	13.74	13.87	-0.13	✓	0.0574	0.0864	0.564		
Gaia DR3 1973997175759946112	ROT	151	12.14	13.62	-1.48	⚠	0.0647	0.0863	0.549		
Gaia DR3 1973926325980549504	DSCT GDOR SXPHE	244	12.75	13.72	-0.97	⚠	0.0488	0.0858	0.498		
ASASSN-V J214210.10+423032.9	ROT	295	13.52	13.48	+0.04	✓	0.0592	0.0855	0.502		
ZTF J214402.16+430500.8	RS	298	13.74	13.55	+0.19	✓	0.0499	0.0845	0.407		
ASASSN-V J214419.27+434619.3	L	217	14.15	13.13	+1.02	⚠	0.0608	0.0843	0.483		
Gaia DR3 1972922987255619328	DSCT GDOR SXPHE	230	13.89	14.19	-0.30	⚠	0.0500	0.0843	0.445		
ASASSN-V J214323.52+431528.0	EA	231	14.11	13.91	+0.20	✓	0.0603	0.0842	0.574		
Gaia DR3 1973765522401491968	DSCT GDOR SXPHE	147	13.63	13.94	-0.31	⚠	0.0586	0.0841	0.493		
Gaia DR3 1972886978249045760	ROT	280	13.82	13.73	+0.09	✓	0.0493	0.0839	0.440		
ZTF J214314.67+425411.6	SR	298	13.69	13.68	+0.02	✓	0.0532	0.0835	0.559		
Gaia DR3 1972980024423103616	ROT	234	14.07	13.64	+0.44	⚠	0.0496	0.0833	0.414		
Gaia DR3 1973899800260631040	RS	306	12.72	12.80	-0.08	✓	0.0334	0.0831	0.474		
ASASSN-V J214518.35+445948.2	L	292	12.65	12.29	+0.36	⚠	0.0393	0.0830	0.417		
Gaia DR3 1972716485227976448	ROT	263	13.76	13.78	-0.02	✓	0.0523	0.0824	0.521		
Gaia DR3 1972665220497261952	ROT	325	12.89	13.68	-0.79	⚠	0.0485	0.0816	0.545		
Gaia DR3 1972912129577951104	ROT	250	14.07	13.88	+0.19	✓	0.0561	0.0813	0.538		
Gaia DR3 1973808364692049280	ROT	195	13.16	13.54	-0.38	⚠	0.0456	0.0810	0.380		
Gaia DR3 1973762223866340864	ROT	181	13.35	13.55	-0.19	✓	0.0485	0.0808	0.475		
Gaia DR3 1967993326874892544	ROT	265	10.99	12.65	-1.66	⚠	0.0328	0.0804	0.935		
Gaia DR3 1973772806666477824	ROT	272	12.82	13.28	-0.46	⚠	0.0371	0.0804	0.388		
Gaia DR3 1973801050371974528	ROT	232	12.32	13.14	-0.82	⚠	0.0473	0.0802	0.474		
Gaia DR3 1966845024415249280	DSCT GDOR SXPHE	269	13.02	13.77	-0.75	⚠	0.0409	0.0796	0.582		
Gaia DR3 1972957690592232960	DSCT GDOR SXPHE	230	13.76	13.68	+0.08	✓	0.0462	0.0796	0.454		
Gaia DR3 1966821694152259328	ROT	248	13.15	13.46	-0.32	⚠	0.0349	0.0786	0.402		
Gaia DR3 1973776861116090880	ROT	147	13.42	13.74	-0.32	⚠	0.0543	0.0779	0.631		
Gaia DR3 1973801290890134656	RS	247	12.19	12.88	-0.68	⚠	0.0344	0.0772	0.449		
Gaia DR3 1974007483680909824	ROT	187	10.93	13.18	-2.25	⚠	0.0370	0.0769	0.403		
GSC 03196-02075	EW	303	13.71	13.36	+0.36	⚠	0.0341	0.0769	0.390		
Gaia DR3 1973070184376040320	ROT	262	14.14	13.71	+0.43	⚠	0.0617	0.0760	0.484		

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Gaia DR3 1973086294789681024	DSCT GDOR SXPHE	329	13.85	13.63	+0.22	✓	0.0390	0.0760	0.450		
Gaia DR3 1972709372762209792	DSCT GDOR SXPHE	250	13.34	13.72	-0.38	Δ	0.0426	0.0759	0.432		
V0638 Cyg	L	159	13.48	10.50	+2.99	Δ	0.0371	0.0754	1.497		
Gaia DR3 1967995972574904960	ROT	147	11.70	13.41	-1.71	Δ	0.0423	0.0751	0.514		
ZTF J214421.38+425209.0	BY	369	13.17	13.52	-0.35	Δ	0.0412	0.0748	0.464		
ZTF J214422.93+424123.0	SR	352	13.10	12.61	+0.49	Δ	0.0466	0.0737	0.426		
Gaia DR3 1972788159643673728	S	210	13.08	17.82	-4.75	Δ	0.0403	0.0736	0.358		
Gaia DR3 1973822559569232896	DSCT GDOR SXPHE	235	12.40	13.33	-0.93	Δ	0.0396	0.0730	0.475		
Gaia DR3 1972909483878609920	ROT	284	13.84	13.64	+0.20	✓	0.0432	0.0730	0.431		
Gaia DR3 1974031776017425280	DSCT GDOR SXPHE	146	11.40	13.57	-2.17	Δ	0.0411	0.0728	0.548		
Gaia DR3 1966854404624080000	ROT	334	13.28	13.57	-0.29	✓	0.0432	0.0727	0.500		
Gaia DR3 1973825063527186816	VAR	273	11.99	13.09	-1.11	Δ	0.0311	0.0723	0.394		
ZTF J213741.38+441635.2	SR	198	12.01	11.62	+0.39	Δ	0.0385	0.0723	0.447		
Gaia DR3 1967970340210030592	ROT	173	12.50	13.18	-0.68	Δ	0.0382	0.0722	0.543		
Gaia DR3 1967715322229111936	VAR	145	13.56	13.71	-0.15	✓	0.0389	0.0717	0.407		
ASASSN-V J213832.64+424957.2	EA	284	13.71	13.12	+0.59	Δ	0.0377	0.0716	0.436		
Gaia DR3 1973127943096873344	DSCT GDOR SXPHE	300	13.72	13.83	-0.11	✓	0.0465	0.0714	0.492		
Gaia DR3 1973125503555614976	DSCT GDOR SXPHE	190	13.24	13.07	+0.17	✓	0.0302	0.0709	0.671		
ASASSN-V J214328.55+424819.2	L	341	13.27	11.65	+1.62	Δ	0.0404	0.0705	0.377		
Gaia DR3 1973824243196605696	DSCT GDOR SXPHE	260	12.34	13.18	-0.84	Δ	0.0361	0.0704	0.398		
Gaia DR3 1972925289358061696	ROT	308	13.66	13.39	+0.27	✓	0.0361	0.0697	0.385		
Gaia DR3 1972682430427309568	ROT	337	12.22	13.23	-1.01	Δ	0.0293	0.0695	0.438		
NSVS J2148047+430152	SR	217	12.97	11.55	+1.42	Δ	0.0420	0.0694	0.352		
Gaia DR3 1973074960379608832	DSCT GDOR SXPHE	333	13.77	13.44	+0.34	Δ	0.0424	0.0690	0.378		
Gaia DR3 1973761158714377472	DSCT GDOR SXPHE	228	13.02	13.50	-0.48	Δ	0.0383	0.0690	0.489		
Gaia DR3 1973093926955280768	DSCT GDOR SXPHE	290	13.70	13.55	+0.15	✓	0.0436	0.0687	0.447		
Gaia DR3 1972645601086289152	ROT	211	12.46	13.32	-0.86	Δ	0.0314	0.0686	0.302		
Gaia DR3 1967705460983906560	E	238	13.73	13.08	+0.65	Δ	0.0412	0.0683	0.348		
Gaia DR3 1974014183830407040	ROT	207	10.97	13.22	-2.26	Δ	0.0406	0.0682	0.618		
Gaia DR3 1973862038907038464	DSCT GDOR SXPHE	335	12.81	13.20	-0.39	Δ	0.0332	0.0678	0.367		
Gaia DR3 1973820394905752192	ROT	248	12.65	13.31	-0.66	Δ	0.0394	0.0678	0.409		
ZTF J214343.44+442403.1	BY	318	13.16	13.38	-0.21	✓	0.0372	0.0677	0.370		
Gaia DR3 1973875812858236928	VAR	290	12.57	13.27	-0.69	Δ	0.0328	0.0671	0.412		
Gaia DR3 1966927865746272128	DSCT GDOR SXPHE	355	13.31	13.02	+0.29	✓	0.0309	0.0670	0.469		
Gaia DR3 1973076197330193152	ROT	322	13.83	13.39	+0.44	Δ	0.0398	0.0669	0.556		
Gaia DR3 1972999506392656896	ROT	267	13.77	13.58	+0.19	✓	0.0444	0.0665	0.383		
Gaia DR3 1967710919878952448	DSCT GDOR SXPHE	235	13.47	13.17	+0.30	Δ	0.0356	0.0661	0.368		
Gaia DR3 1974018130892038656	DSCT GDOR SXPHE	251	10.40	13.03	-2.63	Δ	0.0307	0.0659	0.672		
2MASS J21461073+4406418	EA	298	13.89	13.43	+0.46	Δ	0.0393	0.0658	0.399		
Gaia DR3 1972997788407747328	ROT	311	13.48	13.27	+0.20	✓	0.0353	0.0657	0.344		
Gaia DR3 1973940997588409472	ROT	190	11.71	13.10	-1.39	Δ	0.0315	0.0655	0.436		
Gaia DR3 1973869185732804992	DSCT GDOR SXPHE	324	12.38	13.03	-0.64	Δ	0.0280	0.0650	0.366		
Gaia DR3 1966832757987788672	ROT	223	13.77	13.63	+0.14	✓	0.0448	0.0647	0.489		
Gaia DR3 1973923164884371328	ROT	267	12.10	12.67	-0.57	Δ	0.0272	0.0644	0.428		

NAME	VARTYPE	N	MEASURED G	GAIA G	Δ	DB	MEDIAN_ERR	ROBUST_STD	RANGE	SIG	SAT
Gaia DR3 1973052729628034304	DSCT GDOR SXPHE	286	13.85	13.55	+0.30	✓	0.0339	0.0643	0.426		
Gaia DR3 1972977310003579264	VAR	322	13.50	13.27	+0.23	✓	0.0338	0.0642	0.425		
Gaia DR3 1974007380601663104	DSCT GDOR SXPHE	207	10.98	13.31	-2.33	⚠	0.0361	0.0642	0.575		
Gaia DR3 1973053176304682112	DSCT GDOR SXPHE	155	13.90	13.47	+0.44	⚠	0.0342	0.0638	0.506		
Gaia DR3 1967772118877925632	DSCT GDOR SXPHE	188	13.06	13.27	-0.22	✓	0.0404	0.0637	0.348		
Gaia DR3 1973075303976995712	DSCT GDOR SXPHE	337	13.64	13.45	+0.19	✓	0.0345	0.0635	0.374		
Gaia DR3 1972899485194263936	ROT	348	13.38	13.29	+0.09	✓	0.0338	0.0635	0.360		
Gaia DR3 1972961848120401536	ROT	242	13.58	13.34	+0.23	✓	0.0363	0.0633	0.306		
Gaia DR3 1972644329775822976	ROT	235	12.55	13.48	-0.93	⚠	0.0348	0.0621	0.369		
Gaia DR3 1973011875898843136	ROT	281	13.79	13.00	+0.80	⚠	0.0350	0.0621	0.335		
GSC 03192-01123	SRB	362	12.75	11.86	+0.88	⚠	0.0369	0.0616	0.533		
Gaia DR3 1966854503404144256	ROT	322	12.97	13.33	-0.36	⚠	0.0343	0.0615	0.308		
Gaia DR3 1972707036299785728	ROT	314	13.08	13.25	-0.17	✓	0.0321	0.0610	0.428		
Gaia DR3 1972872577218086784	E	349	13.37	13.38	-0.01	✓	0.0367	0.0607	0.364		
Gaia DR3 1966862268705015808	RS	308	13.10	13.17	-0.07	✓	0.0297	0.0607	0.371		
PMAK V17	SRS	285	12.54	11.28	+1.27	⚠	0.0300	0.0603	0.350		
ASASSN-V J214445.79+432820.8	EA	364	13.13	13.13	-0.00	✓	0.0239	0.0595	0.369		
Gaia DR3 1973003801359937280	DSCT GDOR SXPHE	272	13.54	13.45	+0.09	✓	0.0327	0.0586	0.327		
Gaia DR3 1972969372904277888	E	308	13.44	17.57	-4.13	⚠	0.0309	0.0582	0.305		
Gaia DR3 1966840076612392320	VAR	255	13.24	13.30	-0.06	✓	0.0322	0.0580	0.430		
Gaia DR3 1973791154767214464	ROT	282	12.28	12.71	-0.43	⚠	0.0268	0.0579	0.461		
Gaia DR3 1966928449861830144	RS	305	13.64	13.19	+0.45	⚠	0.0375	0.0568	0.352		
ZTF J214717.18+435834.1	BY	326	13.47	12.93	+0.53	⚠	0.0265	0.0568	0.358		
Gaia DR3 1972929618685633408	DSCT GDOR SXPHE	336	13.38	13.32	+0.06	✓	0.0309	0.0563	0.403		
Gaia DR3 1972973908389504768	ROT	372	13.29	12.92	+0.37	⚠	0.0275	0.0557	0.424		
Gaia DR3 1973094545430398720	DSCT GDOR SXPHE	388	13.12	13.01	+0.11	✓	0.0329	0.0554	0.414		
Gaia DR3 1966918416817884288	ROT	323	13.54	13.23	+0.31	⚠	0.0356	0.0552	0.330		
Gaia DR3 1972743182743142400	RS	184	12.84	12.96	-0.12	✓	0.0307	0.0552	0.389		
Gaia DR3 1972971228329649664	RS	365	13.23	12.86	+0.37	⚠	0.0263	0.0552	0.338		
Gaia DR3 1972942842883059328	ROT	391	13.10	12.44	+0.66	⚠	0.0247	0.0548	0.317		
ASASSN-V J214342.98+441753.3	SR	406	12.81	11.45	+1.37	⚠	0.0270	0.0547	0.361		
Gaia DR3 1972939991029278464	ROT	326	13.50	13.05	+0.45	⚠	0.0335	0.0546	0.304		
ZTF J214155.36+424507.3	SR	348	12.97	11.52	+1.45	⚠	0.0267	0.0543	0.351		
Gaia DR3 1973778957060114688	E	313	12.32	12.67	-0.36	⚠	0.0239	0.0542	0.335		
ASASSN-V J214232.46+425615.6	EA	363	13.11	13.07	+0.04	✓	0.0285	0.0541	0.348		
Gaia DR3 1973857469062369408	ROT	385	12.89	12.99	-0.11	✓	0.0309	0.0531	0.383		
Vend4	SR	327	13.26	10.75	+2.52	⚠	0.0310	0.0530	0.326		
Gaia DR3 1973745731192006784	ROT	352	12.83	12.82	+0.01	✓	0.0268	0.0523	0.332		
ASASSN-V J214318.97+435757.5	L	404	12.88	11.30	+1.58	⚠	0.0231	0.0521	0.331		
Gaia DR3 1972709922517822080	ROT	268	13.02	13.35	-0.34	⚠	0.0311	0.0520	0.344		
ASASSN-V J214420.43+441239.8	SRS	416	13.04	11.70	+1.34	⚠	0.0263	0.0520	0.267		
ASASSN-V J214017.03+425954.8	SR	356	13.29	11.51	+1.78	⚠	0.0273	0.0519	0.302		
Gaia DR3 1973021286162747904	DSCT GDOR SXPHE	371	13.40	13.14	+0.26	✓	0.0300	0.0504	0.371		
ASASSN-V J214641.58+442314.6	SR	340	13.06	11.43	+1.63	⚠	0.0209	0.0500	0.269		

NAME	VARTYPE	N	MEASURED G	GAIA G	Δ	DB	MEDIAN_ERR	ROBUST_STD	RANGE	SIG	SAT
Gaia DR3 1972885878737211264	DSCT GDOR SXPHE	379	13.05	13.13	-0.08	✓	0.0257	0.0500	0.376		
PMak V20	SRS	409	13.20	11.48	+1.73	Δ	0.0261	0.0498	0.318		
Gaia DR3 1973772359989886592	ROT	366	12.06	12.43	-0.36	Δ	0.0217	0.0490	0.323		
V0639 Cyg	LB	280	13.09	10.70	+2.39	Δ	0.0217	0.0488	0.286		
ZTF J214634.40+441036.1	RS	345	13.25	13.00	+0.25	✓	0.0228	0.0480	0.310		
Gaia DR3 1967704911228099968	ROT	324	12.88	12.58	+0.30	Δ	0.0206	0.0469	0.264		
Gaia DR3 1972821660387139712	ROT	150	13.01	12.73	+0.29	✓	0.0188	0.0468	0.635		
Gaia DR3 1966864472027059584	DSCT GDOR SXPHE	310	12.93	12.97	-0.04	✓	0.0235	0.0468	0.347		
Gaia DR3 1972662192541411840	ROT	386	11.79	12.59	-0.80	Δ	0.0218	0.0444	0.410		
Gaia DR3 1972703321151759616	ROT	324	12.41	12.84	-0.43	Δ	0.0203	0.0442	0.368		
Gaia DR3 1973004656049382528	RS	360	13.10	13.04	+0.06	✓	0.0230	0.0440	0.360		
V0654 Cyg	SR	285	11.82	11.18	+0.64	Δ	0.0197	0.0437	0.253		
Gaia DR3 1973105776759361152	DSCT GDOR SXPHE	319	13.10	12.72	+0.38	Δ	0.0205	0.0432	0.316		
Gaia DR3 1972885260262133632	DSCT GDOR SXPHE	373	13.08	13.16	-0.07	✓	0.0272	0.0425	0.419		
Gaia DR3 1967687074221628800	ROT	354	13.09	12.56	+0.53	Δ	0.0226	0.0413	0.284		
NSVS J2143518+431408	L:	413	12.66	10.75	+1.92	Δ	0.0183	0.0412	0.293		
PMak V18	EA	411	12.58	12.61	-0.03	✓	0.0199	0.0393	0.392		
Gaia DR3 1973711543251798784	ROT	419	12.47	12.09	+0.37	Δ	0.0158	0.0387	0.291		
Gaia DR3 1972992668806793216	DSCT GDOR SXPHE	440	12.56	12.33	+0.23	✓	0.0161	0.0369	0.295		
Gaia DR3 1966889417198306688	ROT	290	12.44	12.30	+0.14	✓	0.0142	0.0346	4.845		
NSV 25729	CST	354	6.10	6.75	-0.65	Δ	0.0070	0.2532	1.002	✓	sat
Gaia DR3 1966662264967423872	ROT	235	8.89	10.59	-1.70	Δ	0.0130	0.2010	2.566	✓	sat
V2839 Cyg	DSCT	282	8.12	8.31	-0.19	✓	0.0033	0.0943	0.442	✓	sat
Gaia DR3 1967707522568311168	DSCT GDOR SXPHE	368	8.98	8.87	+0.11	✓	0.0036	0.0224	0.875	✓	sat
UU Cyg	CST	405	8.90	8.88	+0.02	✓	0.0036	0.0182	3.365	✓	sat