

TIC 59464503

Eclipsing binary candidate dossier - Star Vetter

CLEAN

BLS EPHEMERIS

Period 0.993917 d
Epoch (t0) 1469.2414 BTJD
Duration 0.0840 d
Depth 6.127 % (61,266 ppm)
SNR 359.2

CATALOG CROSS-MATCH (novelty)

VSX	no match
ASAS-SN	no match
Gaia eclipsing-binary table	no match
Gaia variable classification	no match
TESS EB catalog (Prsa+2022)	no match
ExoFOP TOI list	no match

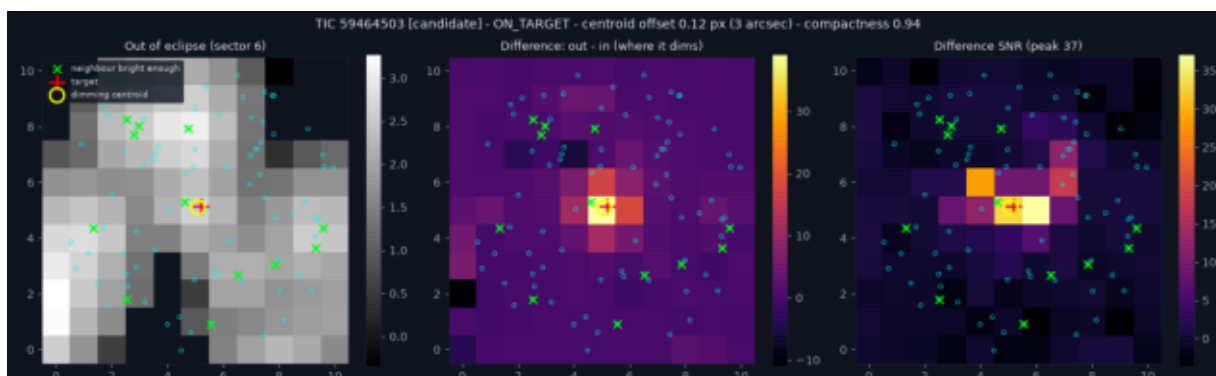
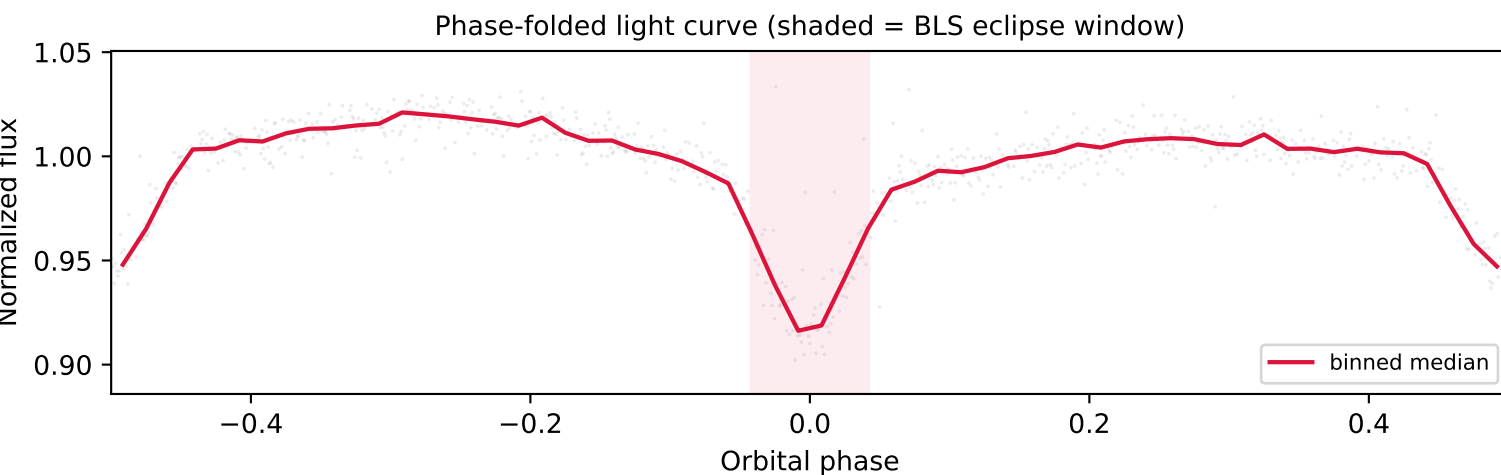
INDEPENDENT CHECKS (f3i gates)

Eclipses observed 19 (gate ≥ 3)
Robust depth ratio 1.08 (gate ≥ 0.50)
Robust depth sigma 36.2 (gate ≥ 7.0)
Odd/even z-score 1.28 (consistent)
Secondary eclipse not detected

Verdict: NOVEL

PIXEL-LEVEL SOURCE CHECK (TESScut difference imaging)

Sector 6 light-curve dip in this sector: 48.3 sigma t0 refined by -0.0025 phase
Difference-image peak SNR 37.16 (gate ≥ 5.0) Compactness 0.94 (gate ≥ 0.50)
Dimming centroid offset 0.12 px (3 arcsec) (gate ≤ 1.0 px, i.e. on the target)
Nearest bright-enough neighbour in cutout: TIC 59464506
0.52 px away, dTmag +1.44 - farther from the dimming than the target



No caveats - clean detection on every check.