

TIC 201317466

Eclipsing binary candidate dossier - Star Vetter

CLEAN

BLS EPHEMERIS

Period 5.624226 d
Epoch (t0) 2772.3153 BTJD
Duration 0.1700 d
Depth 12.085 % (120,853 ppm)
SNR 562.4

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)

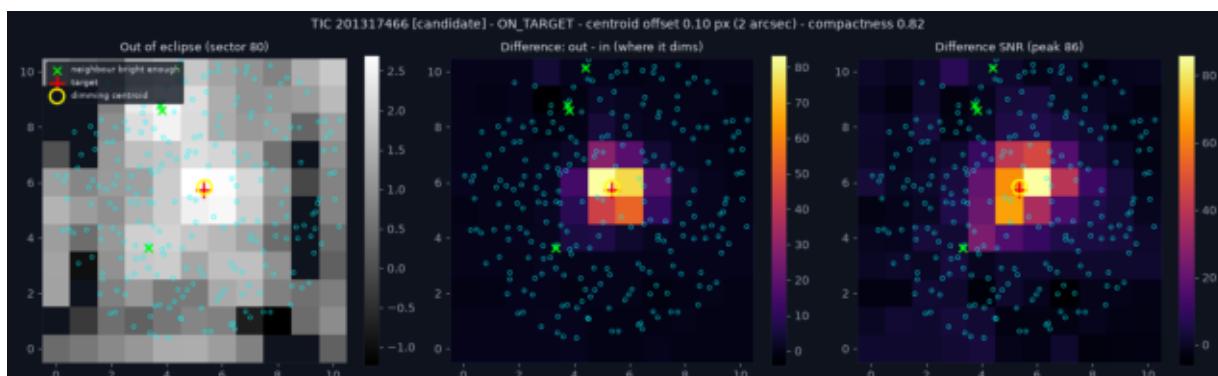
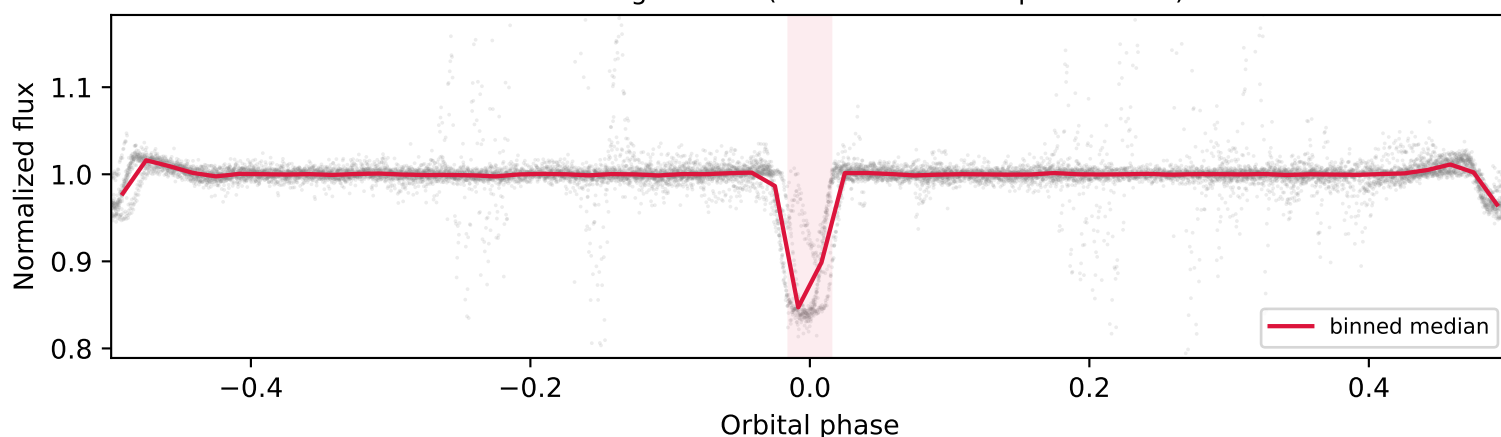
Eclipses observed 9 (gate ≥ 3)
Robust depth ratio 1.18 (gate ≥ 0.50)
Robust depth sigma 368.6 (gate ≥ 7.0)
Odd/even z-score 1.37 (consistent)
Secondary eclipse detected, phase 0.49, 5.4 sigma

Verdict: NOVEL

PIXEL-LEVEL SOURCE CHECK (TESScut difference imaging)

Sector 80 light-curve dip in this sector: 277.6 sigma t0 refined by -0.0050 phase
Difference-image peak SNR 86.02 (gate ≥ 5.0) Compactness 0.82 (gate ≥ 0.50)
Dimming centroid offset 0.10 px (2 arcsec) (gate ≤ 1.0 px, i.e. on the target)
Nearest bright-enough neighbour in cutout: TIC 201322566
2.98 px away, dTmag +1.89 - farther from the dimming than the target

Phase-folded light curve (shaded = BLS eclipse window)



No caveats - clean detection on every check.