

BLS EPHEMERIS		CATALOG CROSS-MATCH (novelty)	
Period	1.149235 d	VSX	no match
Epoch (t0)	3507.1434 BTJD	ASAS-SN	no match
Duration	0.0580 d	Gaia eclipsing-binary table	no match
Depth	0.378 % (3,775 ppm)	Gaia variable classification	no match
SNR	138.3	TESS EB catalog (Prsa+2022)	no match
INDEPENDENT CHECKS (f3i gates)		ExoFOP TOI list	no match
Eclipses observed	19 (gate >= 3)	Verdict:	NOVEL
Robust depth ratio	1.07 (gate >= 0.50)		
Robust depth sigma	68.3 (gate >= 7.0)		
Odd/even z-score	0.51 (consistent)		
Secondary eclipse	not detected		

PIXEL-LEVEL SOURCE CHECK (TESScut difference imaging)

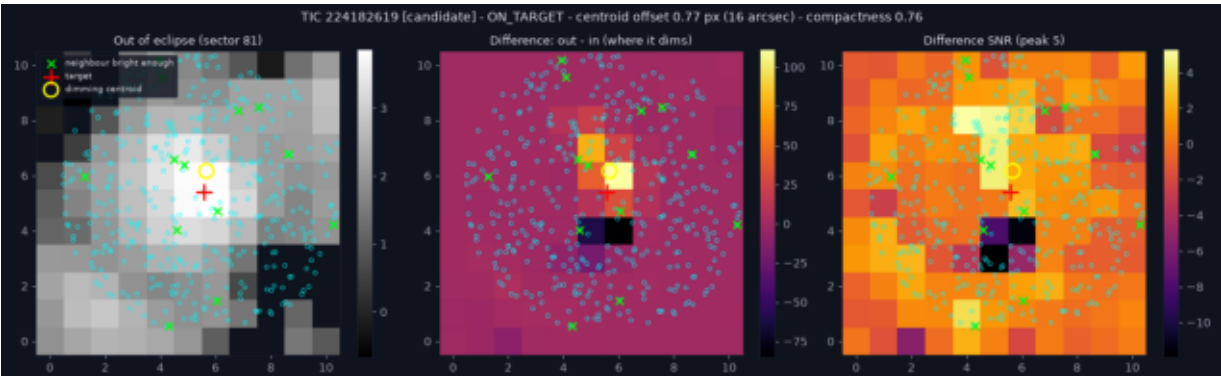
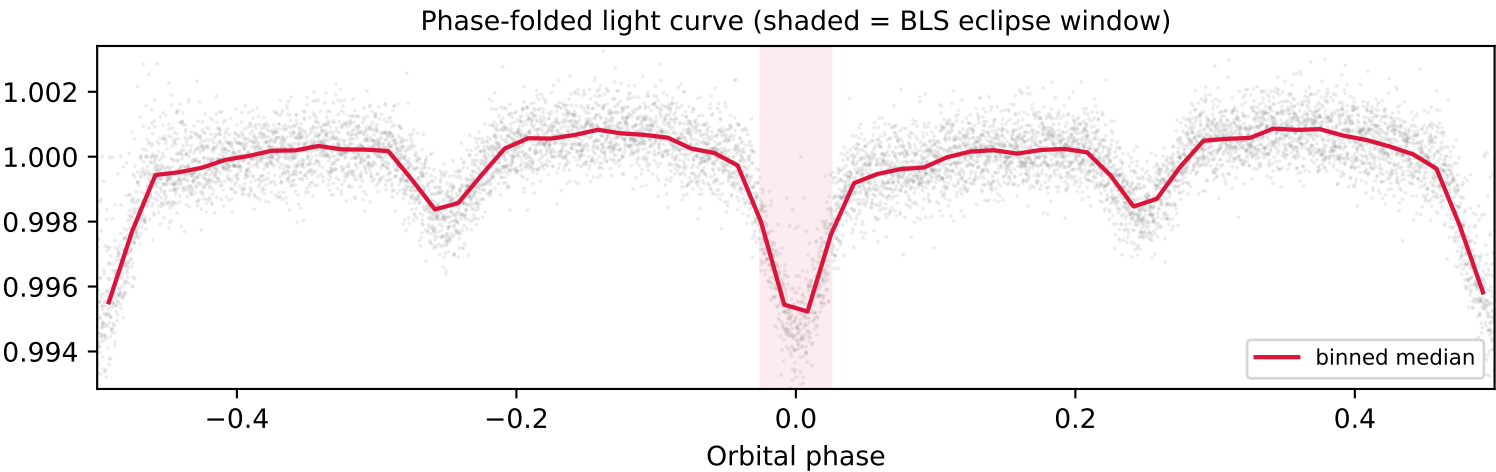
Sector 81 light-curve dip in this sector: 68.3 sigma t0 refined by 0.0025 phase

Difference-image peak SNR 5.35 (gate >= 5.0) Compactness 0.76 (gate >= 0.50)

Dimming centroid offset 0.77 px (16 arcsec) (gate <= 1.0 px, i.e. on the target)

Nearest bright-enough neighbour in cutout: TIC 224182603

0.83 px away, dTmag +3.20 - farther from the dimming than the target



Caveat (THIN MARGIN): The ON_TARGET call rests on a neighbour-competition margin of just 0.062 px (dimming centroid 0.768 px from target vs 0.830 px from the nearest bright-enough neighbour) - inside diag_pixel.py's own stated centroid systematic of 0.10-0.3 px. TESS's resolution cannot confidently separate this star from that neighbour.