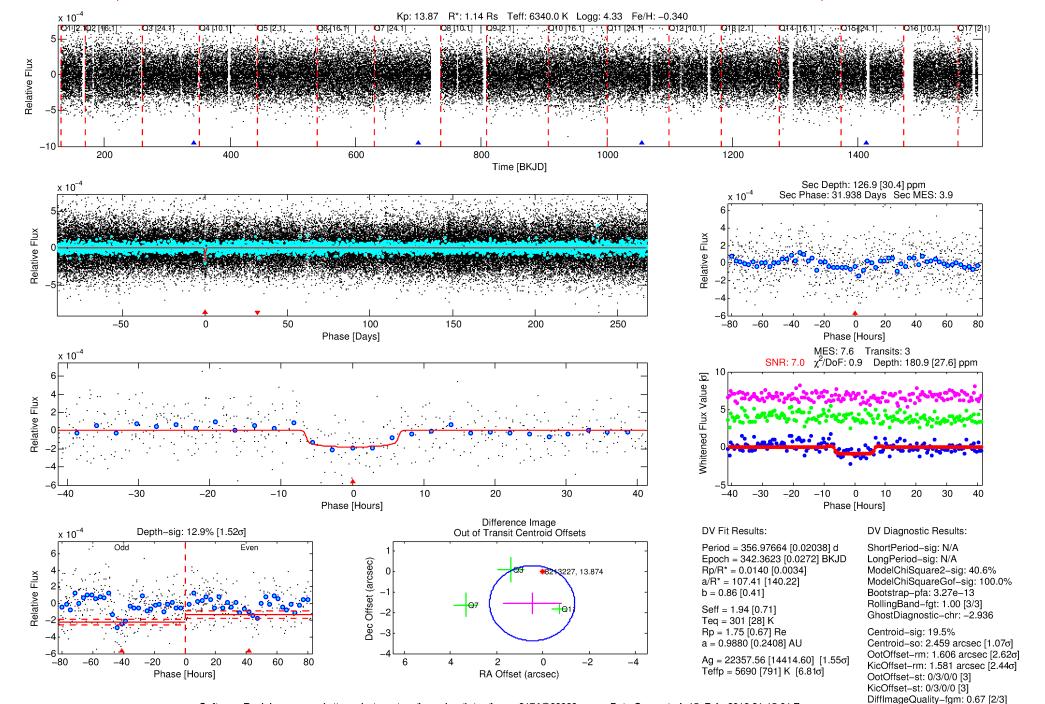
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

DV One-Page Summary

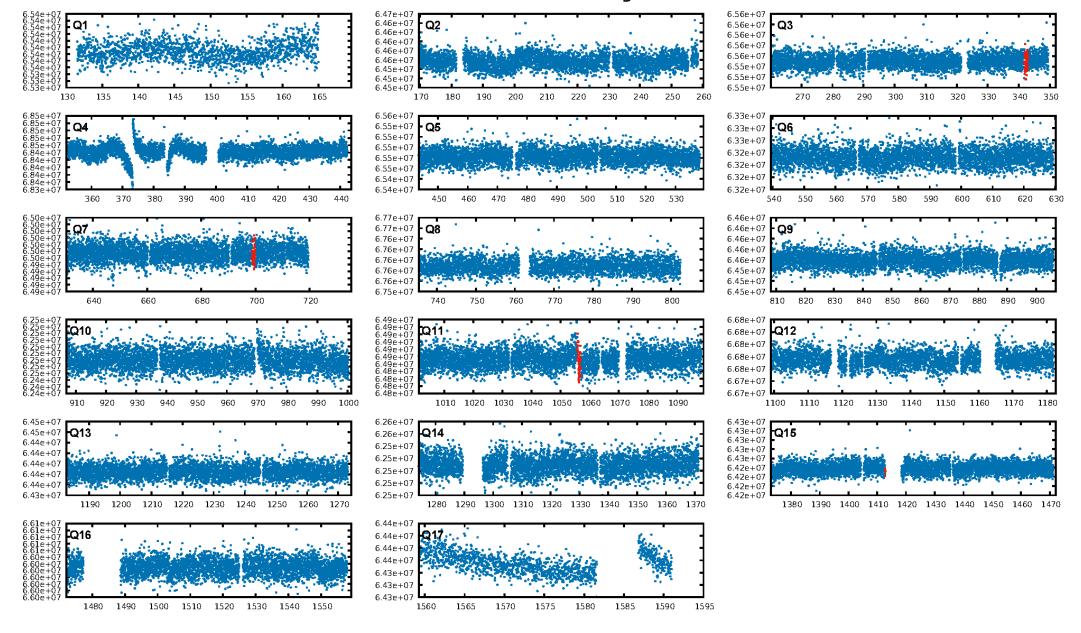
KIC: 8213227 Candidate: 1 of 1 Period: 356.977 d

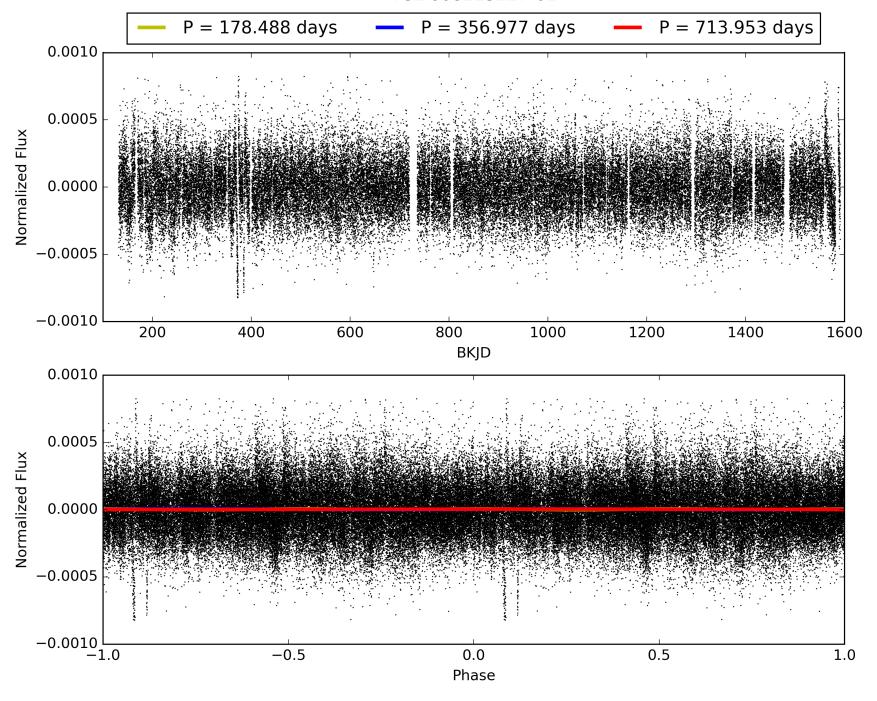
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

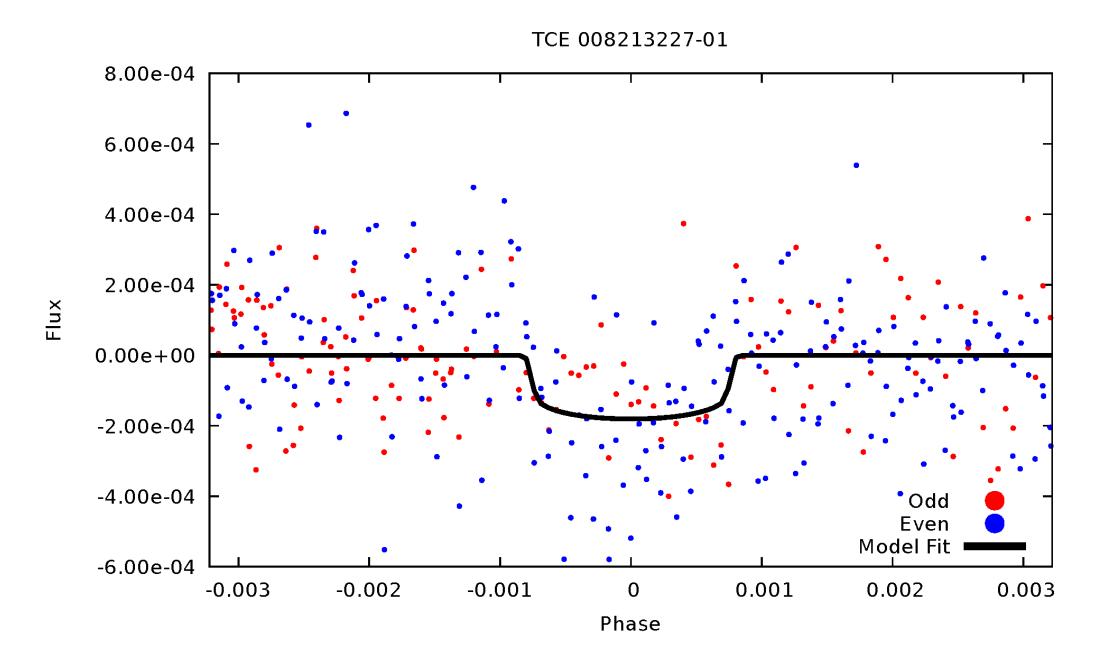
DiffImageOverlap-fno: 1.00 [3/3]



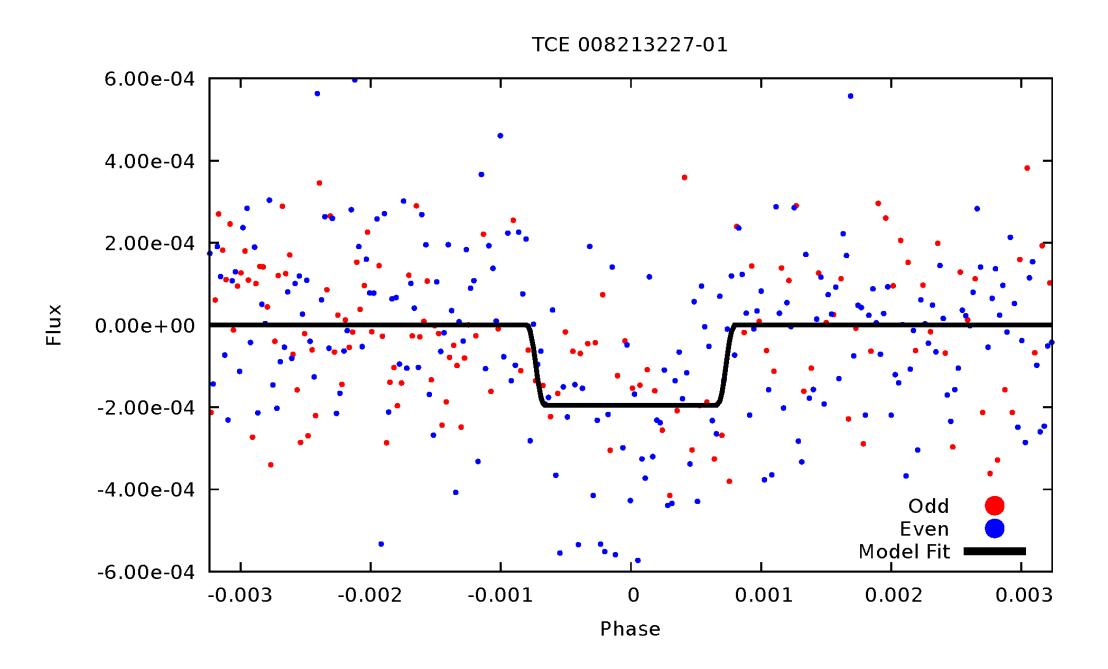
TCE 008213227-01, PDC Light Curves



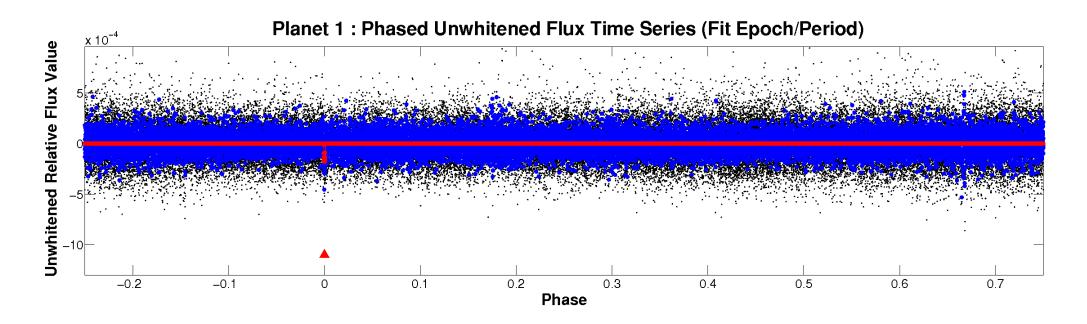


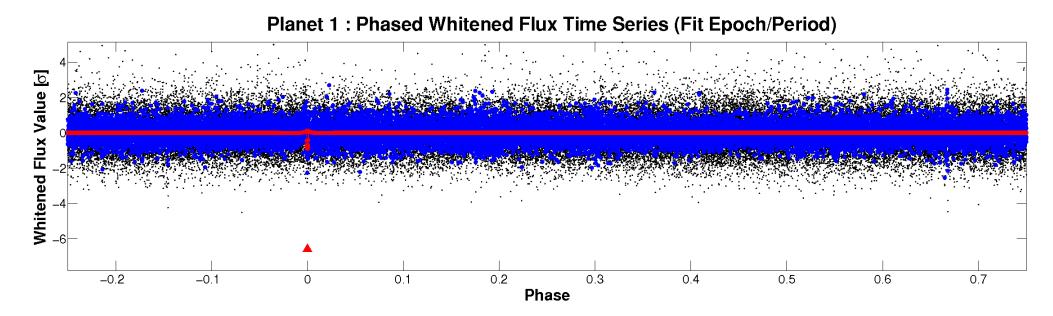


ALT Odd/Even



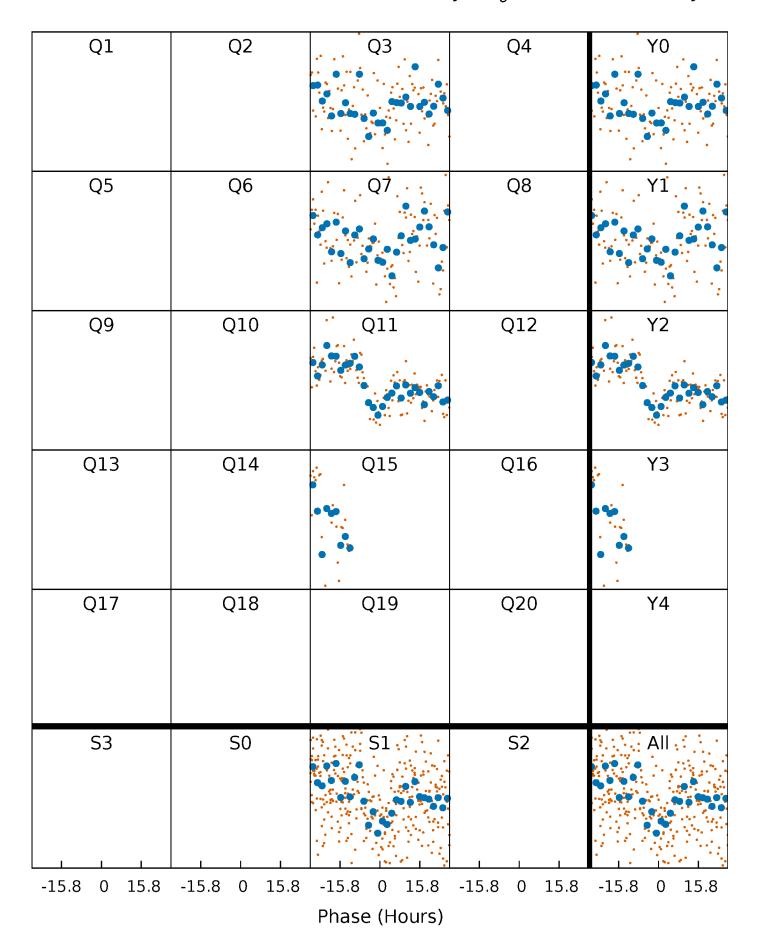
Non-Whitened Vs. Whitened Light Curve





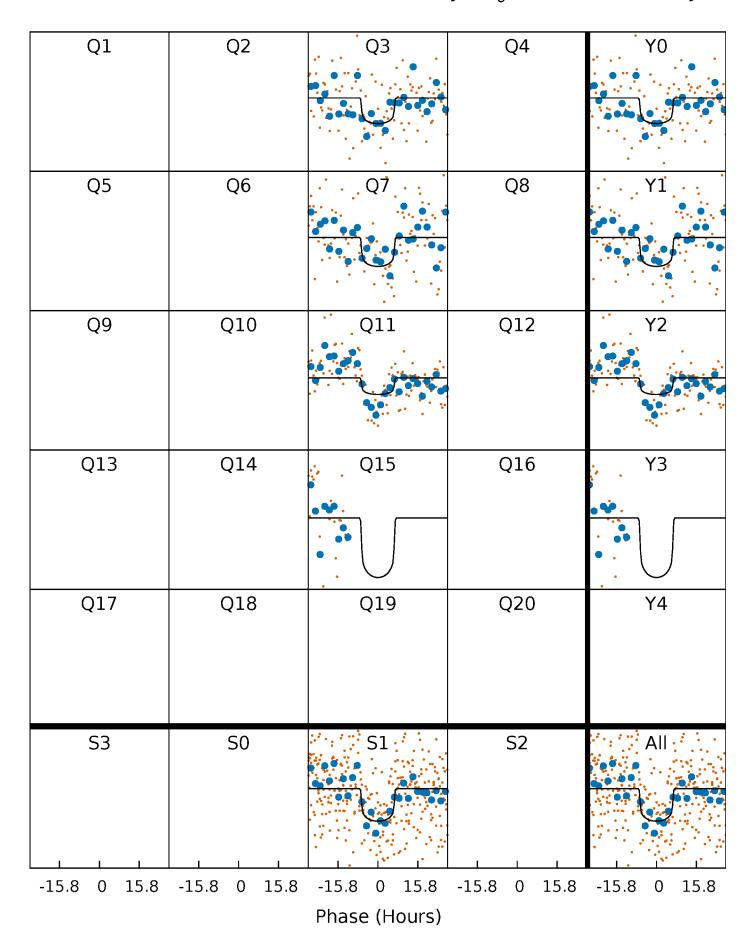
PDC Quarter-Phased Transit Curves

TCE 008213227-01 $P=356.976642 Days T_0=342.362295 (BKJD)$



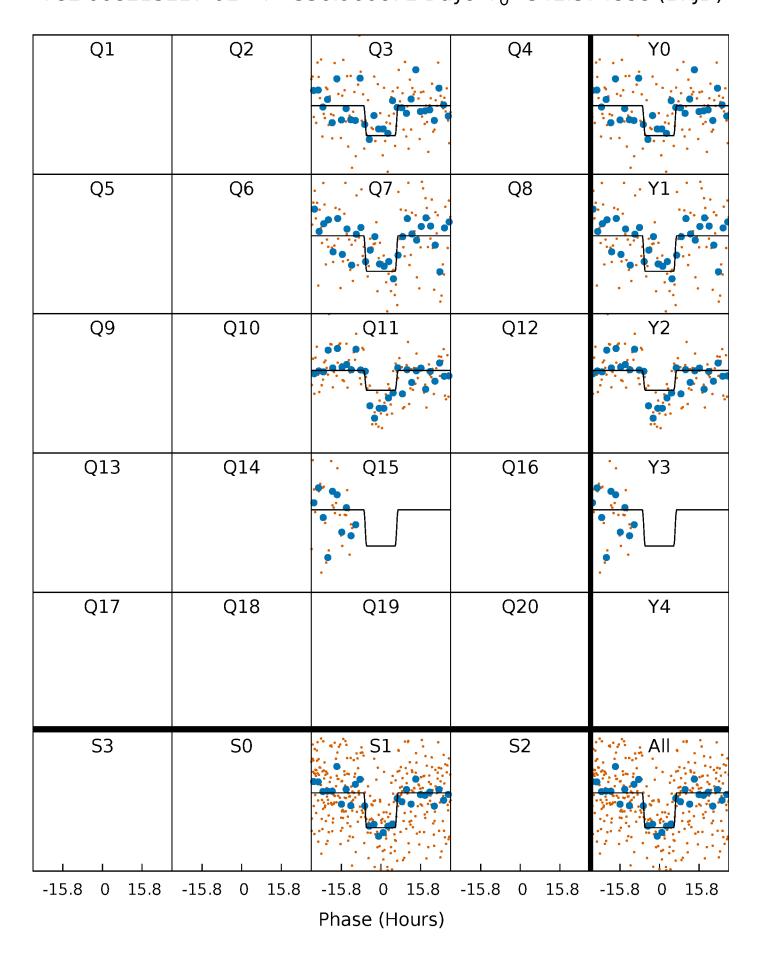
DV Quarter-Phased Transit Curves

TCE 008213227-01 $P=356.976642 Days T_0=342.362295 (BKJD)$



Alt. Detrend Quarter-Phased Transit Curves

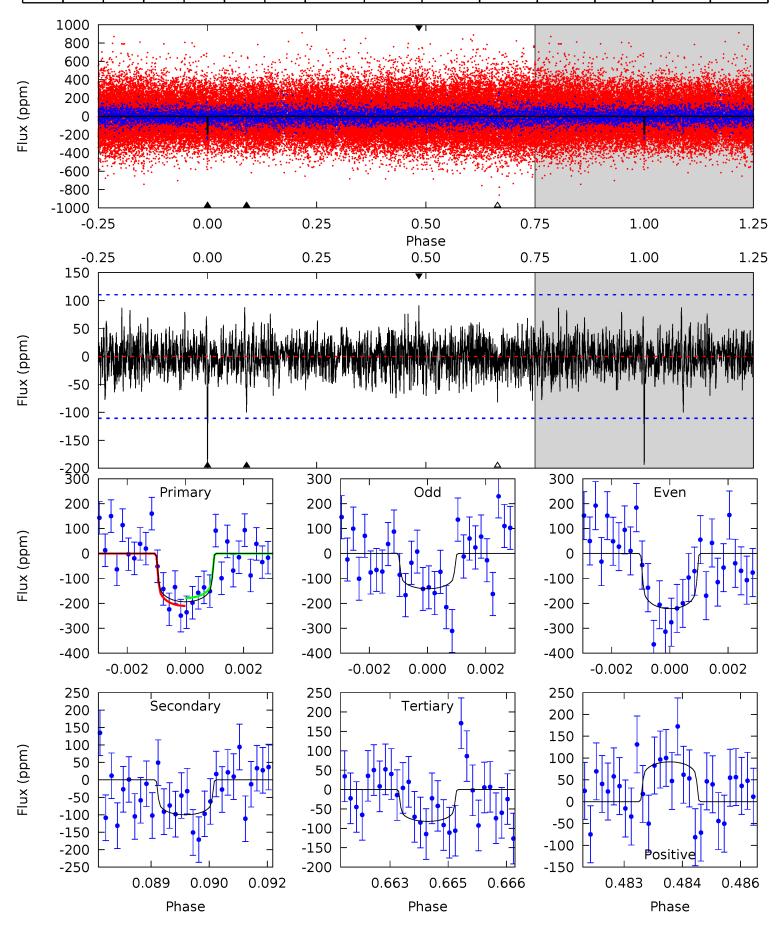
TCE 008213227-01 $P=356.960671 Days T_0=342.374888 (BKJD)$



DV Model-Shift Uniqueness Test

008213227-01, P = 356.976642 Days, E = 342.362295 Days

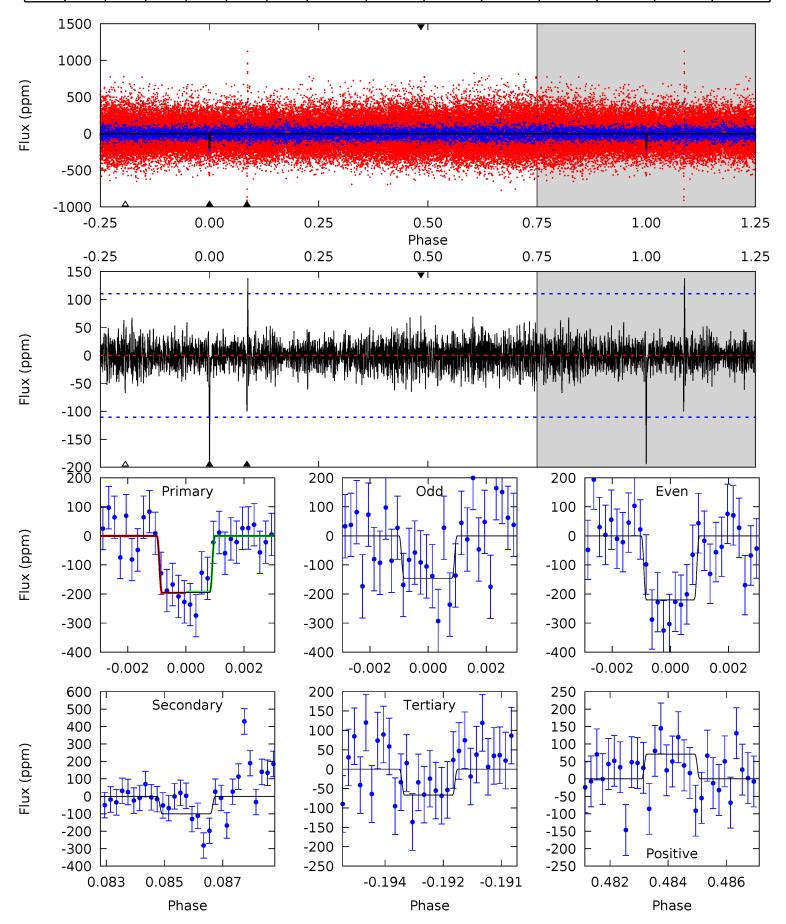
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.40	4.85	3.98	4.43	5.37	3.15	1.18	5.42	4.97	0.88	0.43	1.86	1.06	0.32	0.77



Alt Model-Shift Uniqueness Test

008213227-01, P = 356.960671 Days, E = 342.374888 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.45	4.86	3.25	3.45	5.37	3.16	0.94	6.19	5.99	1.60	1.40	1.71	1.35	0.42	0.09



Stellar Parameters For KIC 008213227

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	$R\left(\mathbf{R}_{\odot}\right)$	$M(\mathrm{M}_{\odot})$	$p_{\star} (\mathrm{g \cdot cm^{-3}})$
	6340^{+157}_{-189}	$4.325^{+0.124}_{-0.186}$	$-0.340^{+0.250}_{-0.300}$	$1.144^{+0.339}_{-0.183}$	$1.006^{+0.159}_{-0.106}$	$0.947^{+0.574}_{-0.484}$
	+2%/-3%	+3%/-4%	+74%/-88%	+30%/-16%	+16%/-11%	+61%/-51%
Source	PHO1	KIC0	KIC0		DSEP	

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008213227-01 / KOI

Detrend	Depth (ppm)	$R_p(R_{\bigoplus})$	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-100 ± 21	$1.77^{+0.50}_{-0.49}$	422^{+30}_{-23}	5361^{+869}_{-535}	16724_{-6872}^{+15838}
Alt.	-100±21	$1.77^{+0.50}_{-0.47}$	421^{+29}_{-23}	5387^{+875}_{-564}	17033_{-7035}^{+15341}

 T_{max} = Theoretical Maximum Planetary Temperature T_{obs} = Observed Planetary Temperature (Assuming A=0.3) A_{obs} = Observed Albedo (Assuming T=0)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

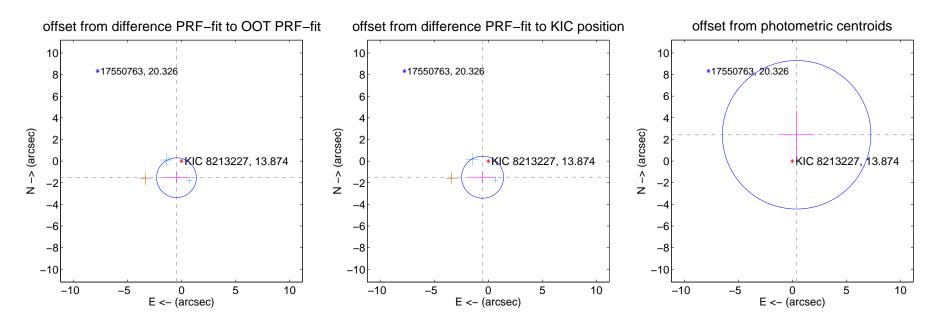
DV Centroid Data

Supplemental centroid analysis for 008213227-01. Kepler magnitude: 13.87. Transit SNR 7.04

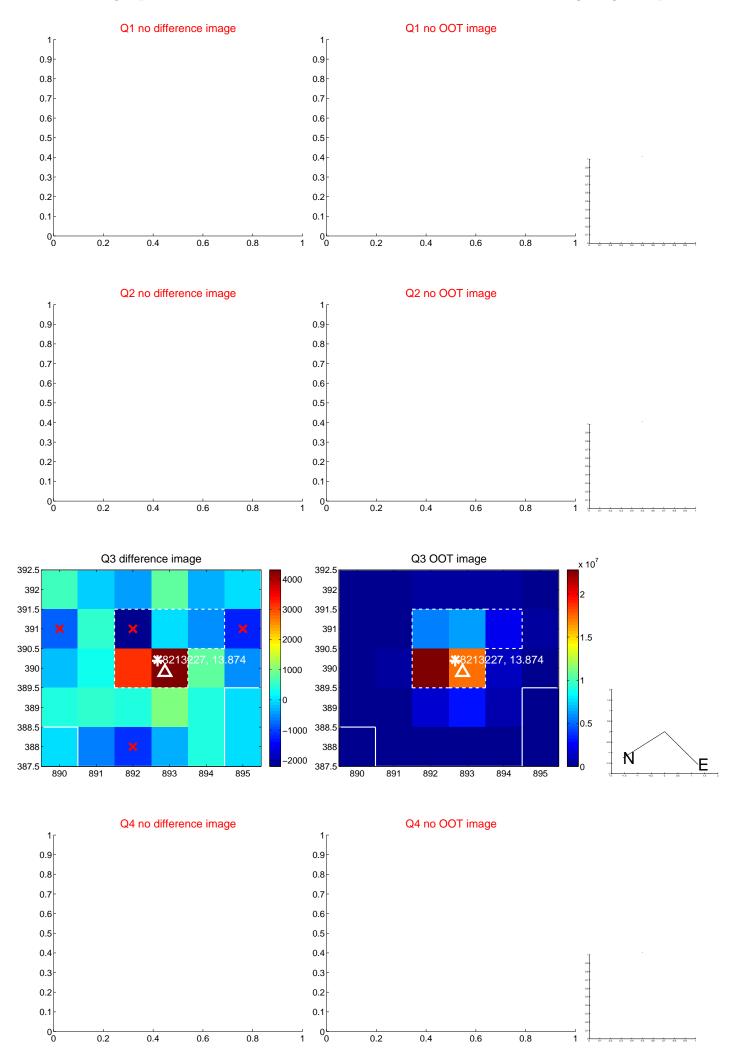
There are 2 quarters with good PRF difference image offsets

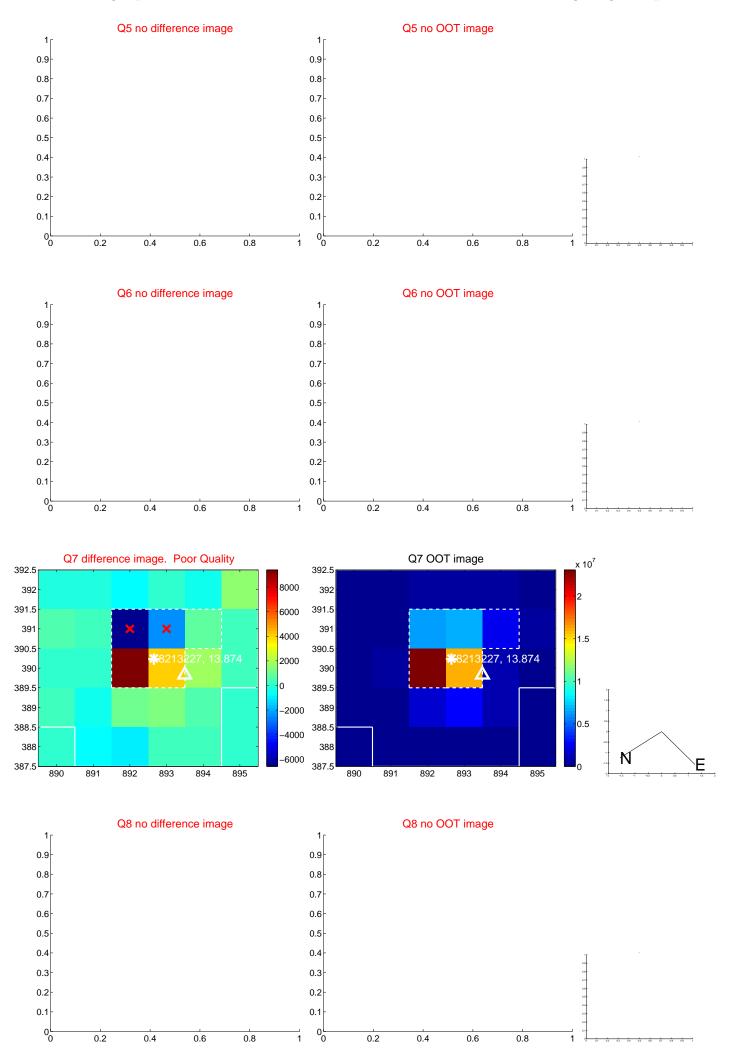
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

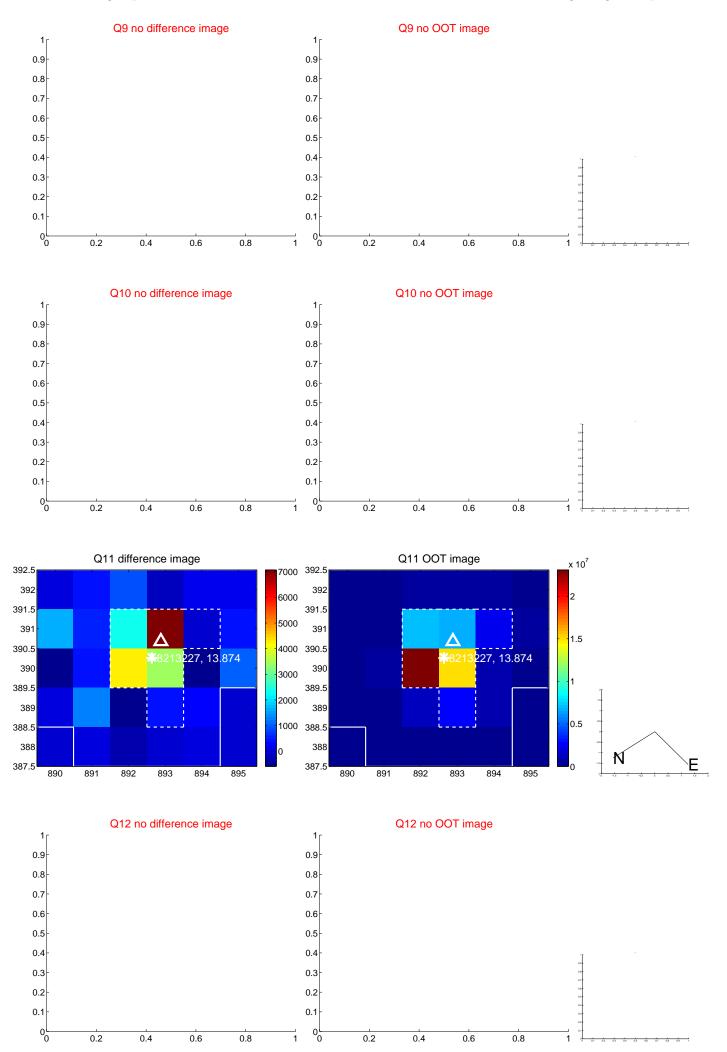
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.606 ± 0.613	2.62	0.468 ± 1.260	-1.537 ± 0.514
PRF-fit source offset from KIC position	1.581 ± 0.648	2.44	0.529 ± 1.259	-1.490 ± 0.523
photometric centroid source offset	2.46 ± 2.29	1.07	-0.40 ± 1.55	2.43 ± 2.30

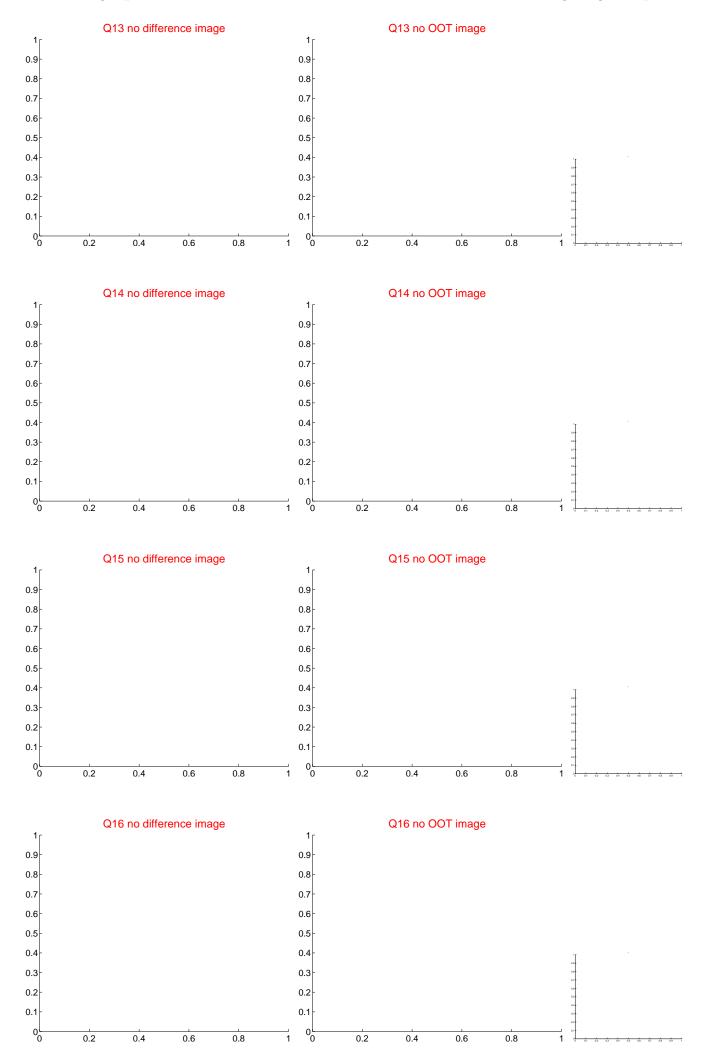


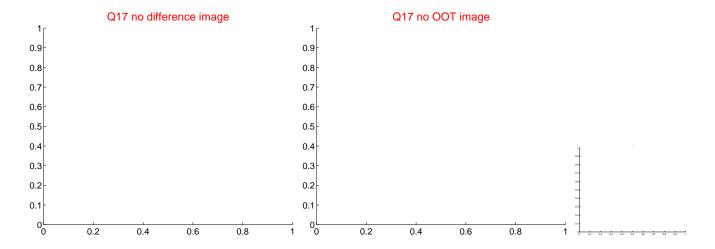
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

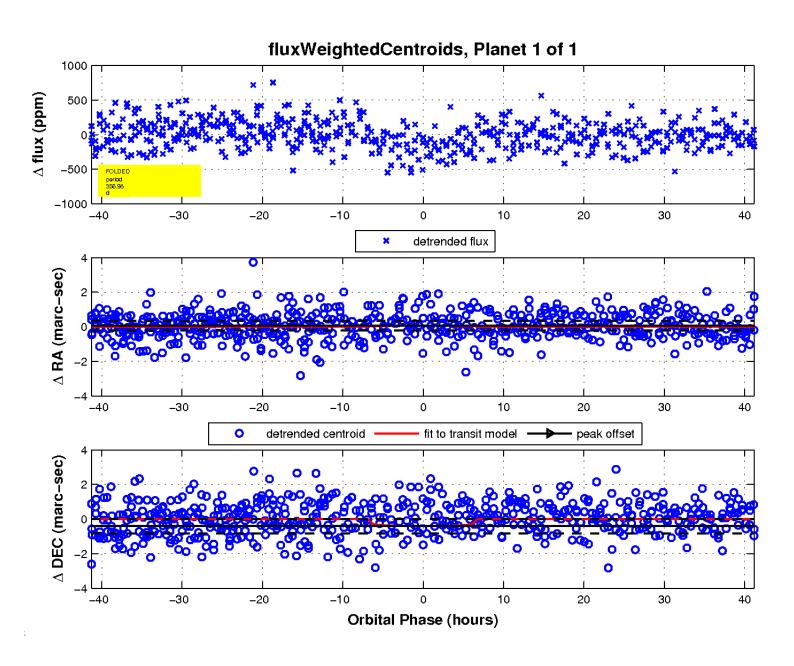












UKIRT Image

