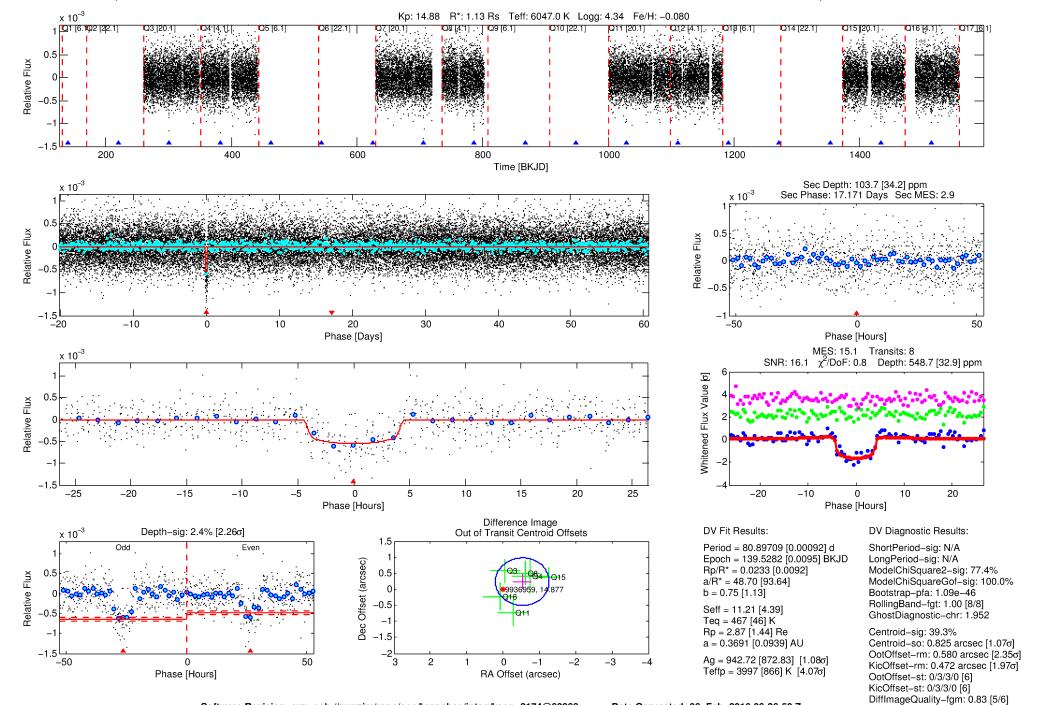
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

DV One-Page Summary

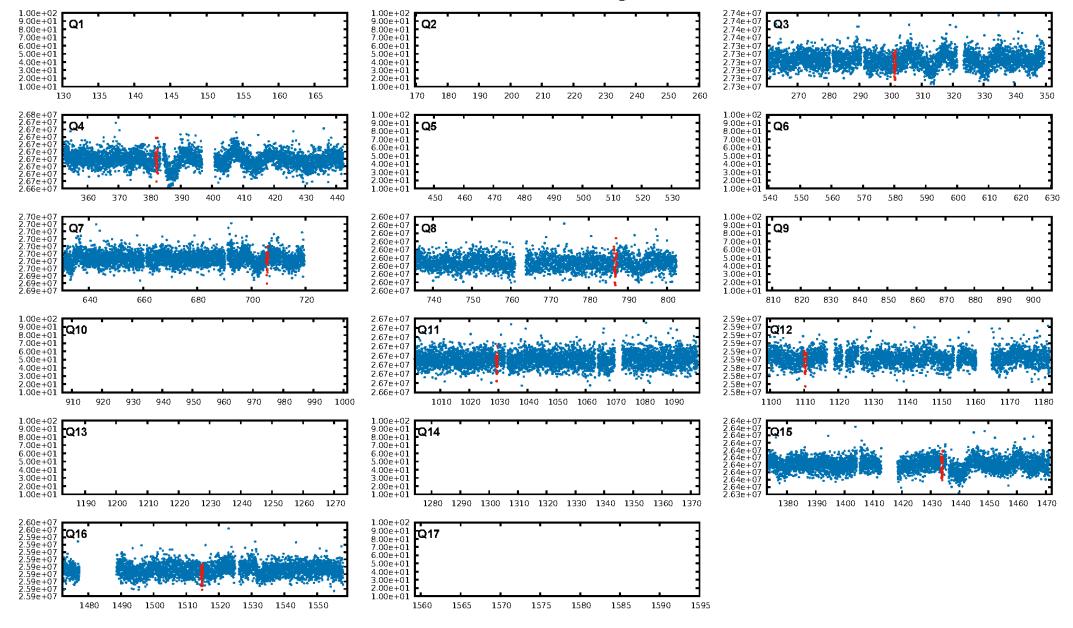
KIC: 9936959 Candidate: 1 of 1 Period: 80.897 d

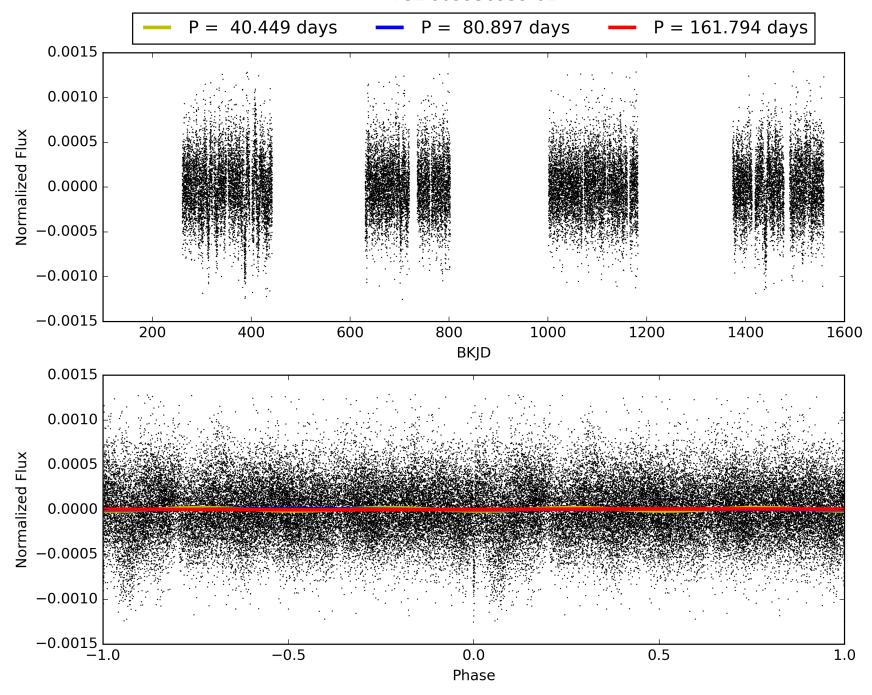
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

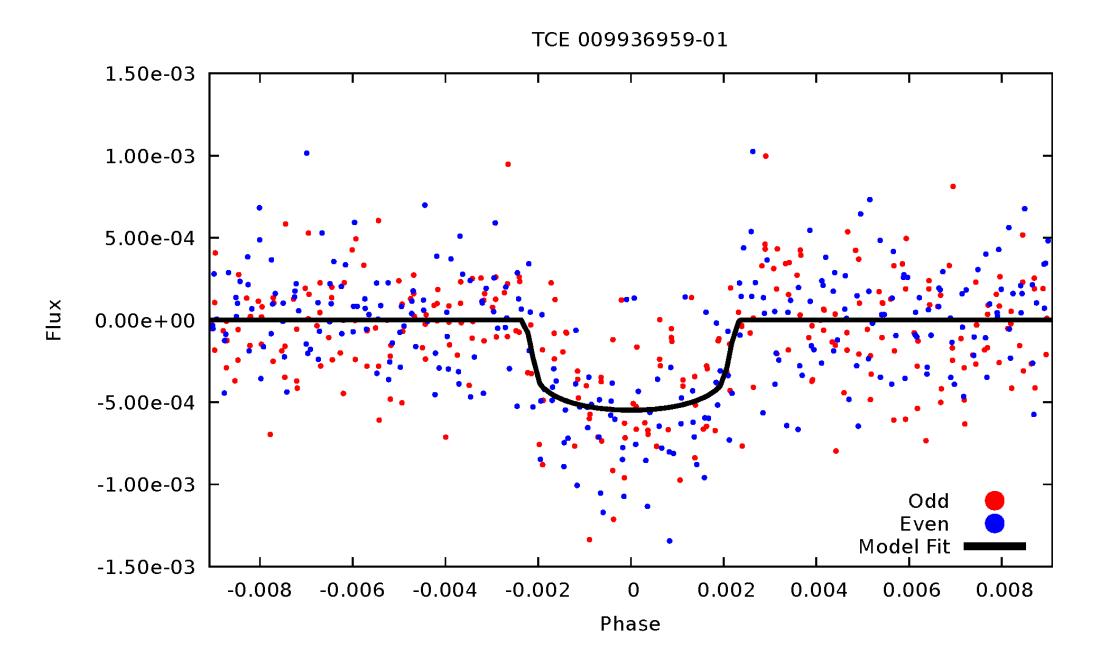
DiffImageOverlap-fno: 1.00 [7/7]



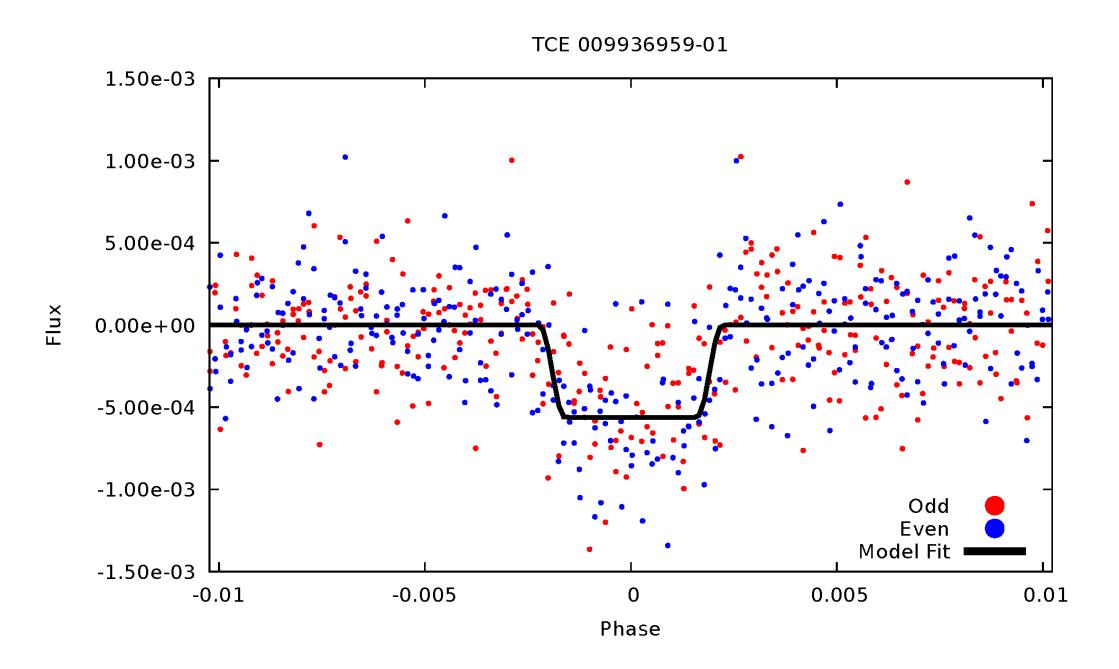
TCE 009936959-01, PDC Light Curves



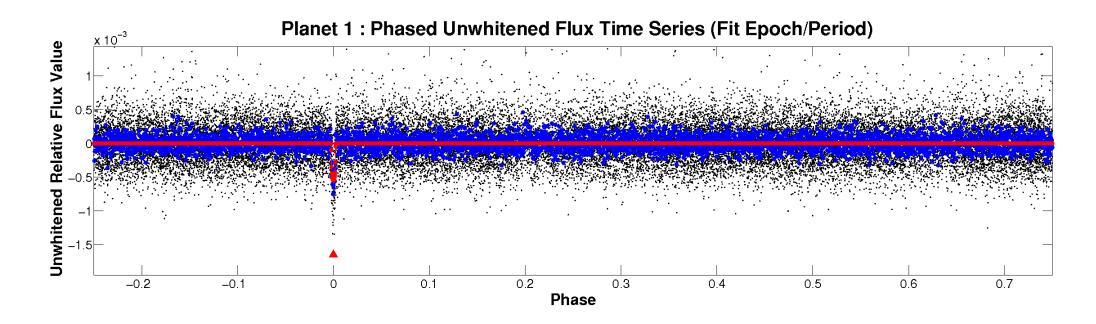


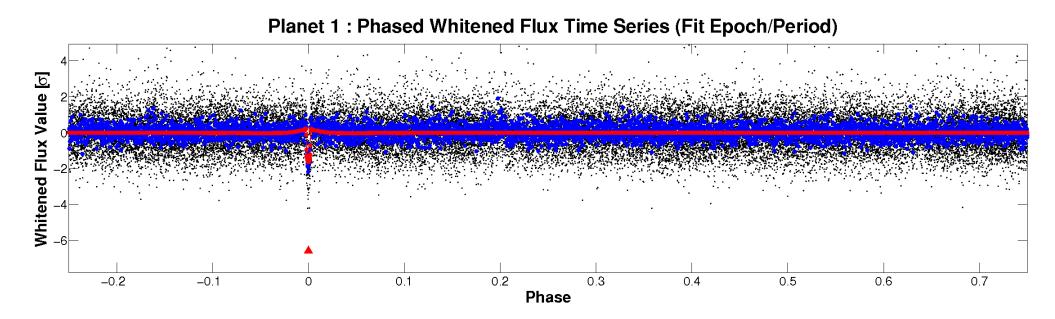


ALT Odd/Even



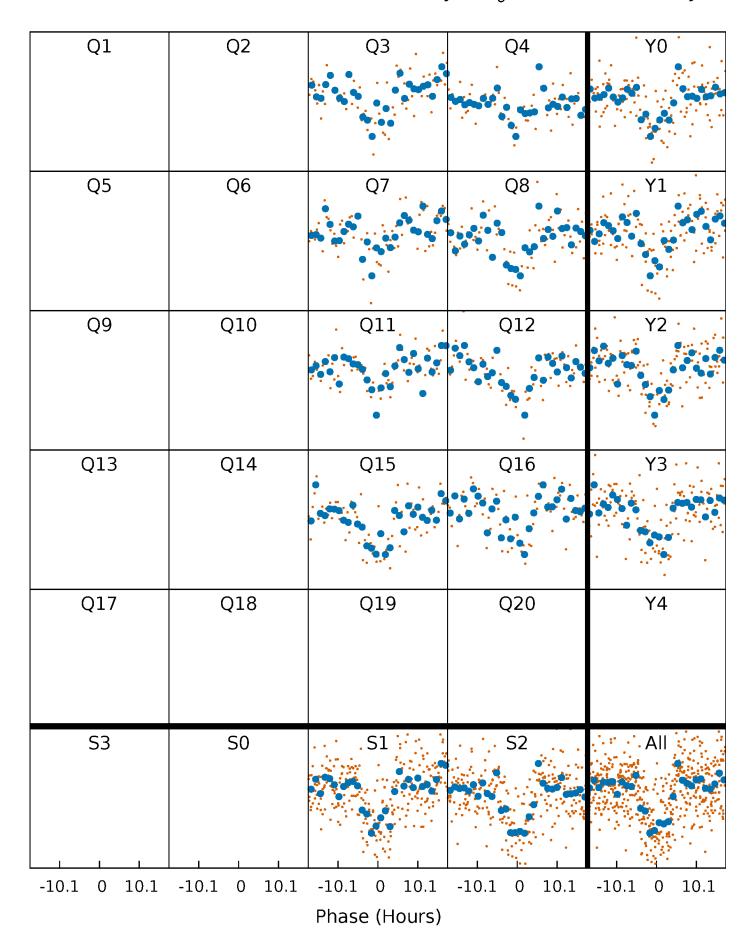
Non-Whitened Vs. Whitened Light Curve





PDC Quarter-Phased Transit Curves

TCE 009936959-01 $P = 80.897087 Days T_0 = 139.528247 (BKJD)$



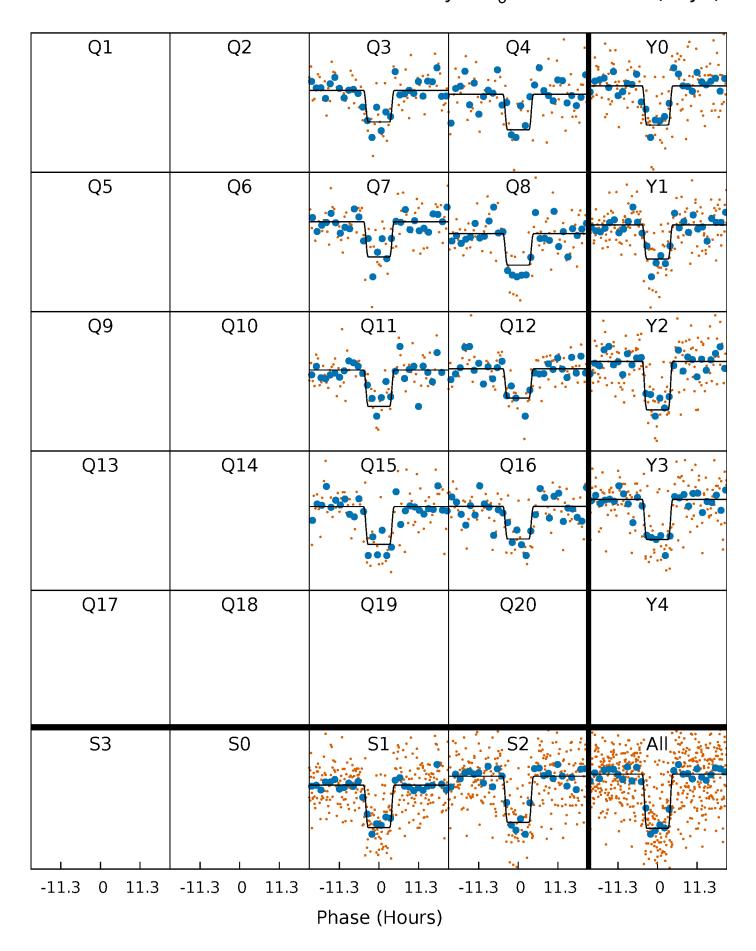
DV Quarter-Phased Transit Curves

TCE 009936959-01 P= 80.897087 Days $T_0=139.528247$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

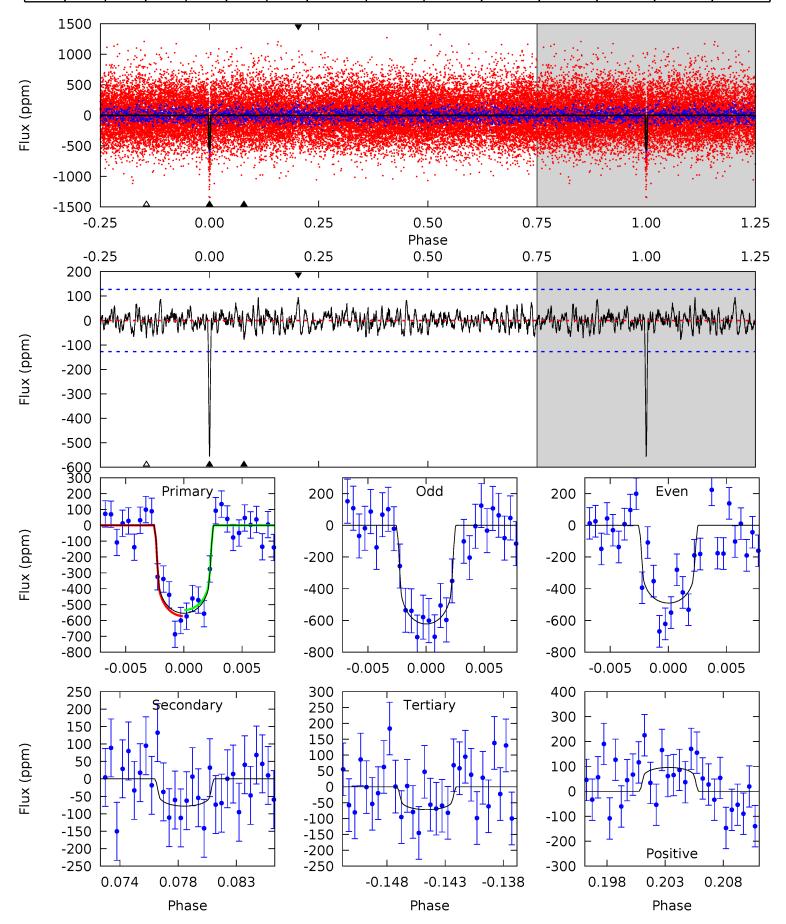
TCE 009936959-01 P= 80.894384 Days $T_0=139.555827$ (BKJD)



DV Model-Shift Uniqueness Test

009936959-01, P = 80.897087 Days, E = 139.528247 Days

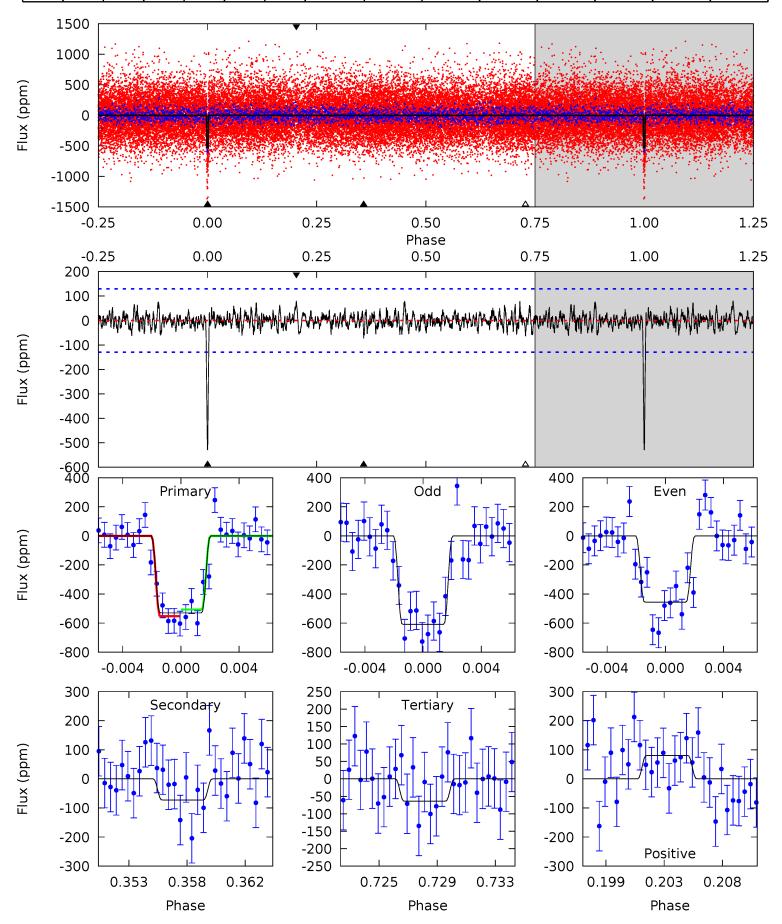
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.6	3.18	2.93	3.90	5.17	2.83	1.13	19.7	18.7	0.25	-0.72	2.70	1.00	0.15	0.78



Alt Model-Shift Uniqueness Test

009936959-01, P = 80.894384 Days, E = 139.555827 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.2	2.90	2.55	3.21	5.18	2.85	0.94	18.6	18.0	0.34	-0.31	3.06	0.98	0.13	0.92



Stellar Parameters For KIC 009936959

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(\mathrm{M}_{\bigodot})$	$p_{\star} (\text{g} \cdot \text{cm}^{-3})$
	6047^{+189}_{-232}	$4.343^{+0.128}_{-0.192}$	$-0.080^{+0.250}_{-0.300}$	$1.129^{+0.351}_{-0.189}$	$1.021^{+0.167}_{-0.126}$	$1.000^{+0.606}_{-0.505}$
	+3%/-4%	+3%/-4%	+312%/-375%	+31%/-17%	+16%/-12%	+61%/-51%
Source	KIC0	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 009936959-01 / KOI

Detrend	Depth (ppm)				A_{obs}
DV	-78±25	$2.90^{+1.27}_{-1.21}$	653^{+55}_{-40}	4036^{+952}_{-511}	693^{+1452}_{-391}
Alt.	-73±25	$2.93^{+1.34}_{-1.14}$	656^{+49}_{-41}	3966^{+798}_{-510}	627^{+1067}_{-364}

 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 $A_{obs} \gg 1.0$

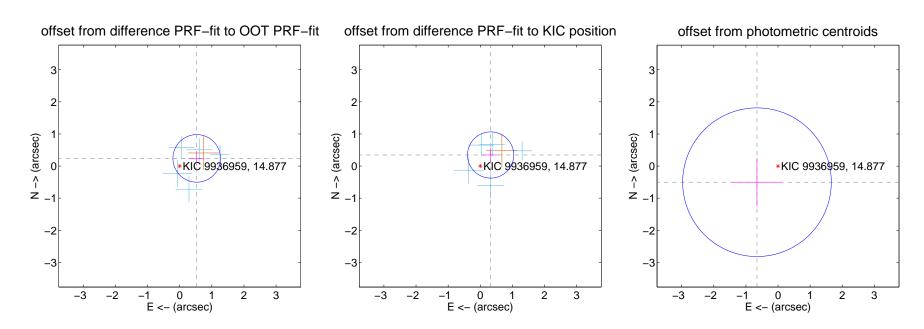
DV Centroid Data

Supplemental centroid analysis for 009936959-01. Kepler magnitude: 14.88. Transit SNR 16.07

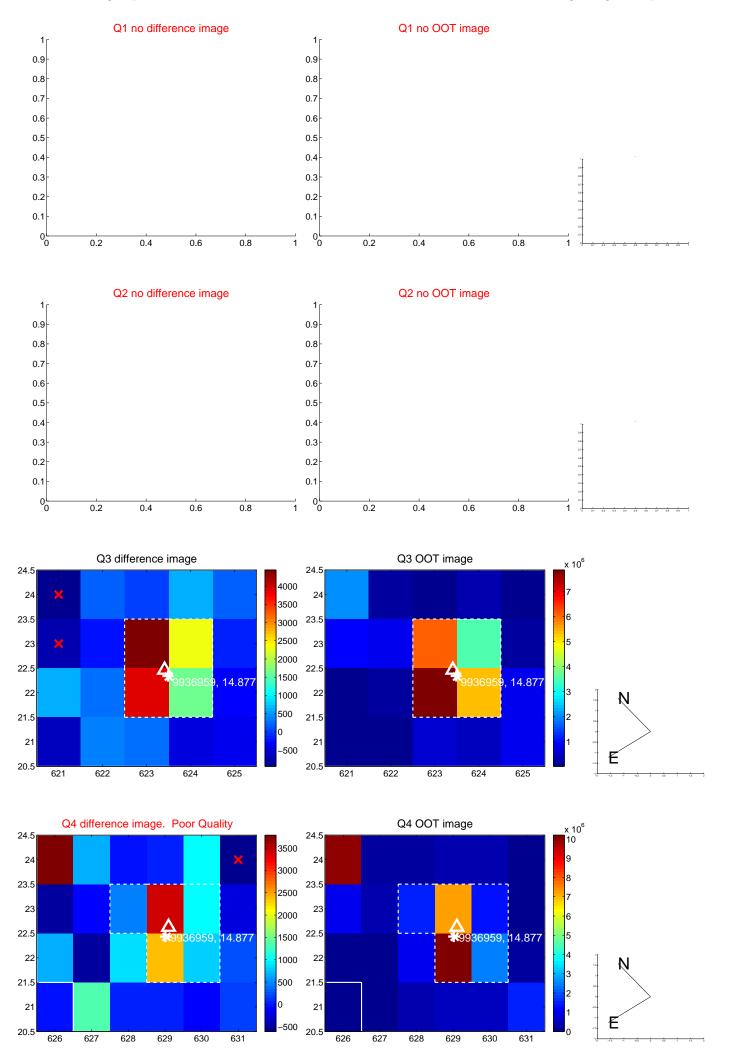
There are 5 quarters with good PRF difference image offsets

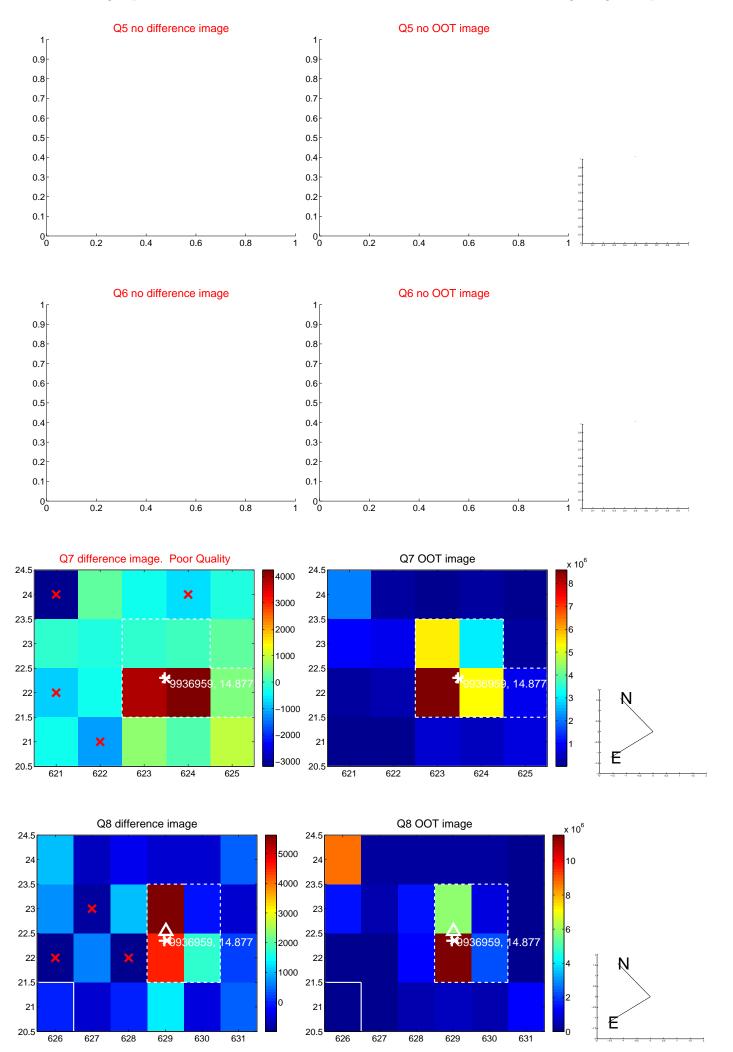
The direct PRF centroid is offset from the target star catalog position by about 0.31 arcsec

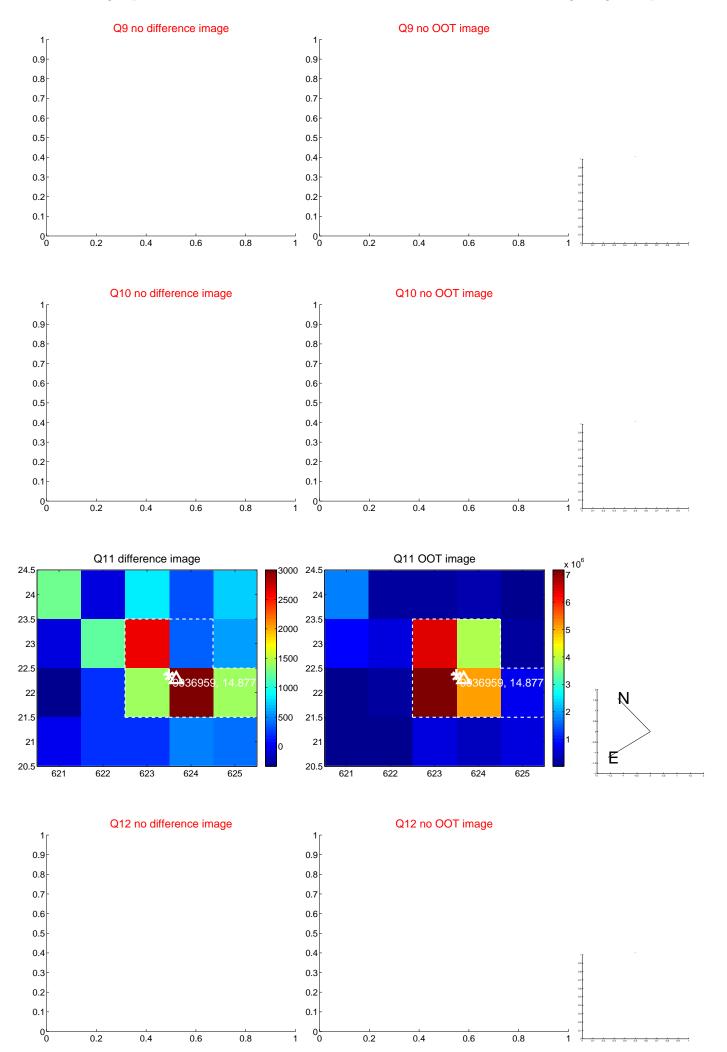
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.580 ± 0.247	2.35	-0.529 ± 0.251	0.239 ± 0.224
PRF-fit source offset from KIC position	0.472 ± 0.240	1.97	-0.323 ± 0.255	0.344 ± 0.226
photometric centroid source offset	0.82 ± 0.77	1.07	0.65 ± 0.78	-0.50 ± 0.76

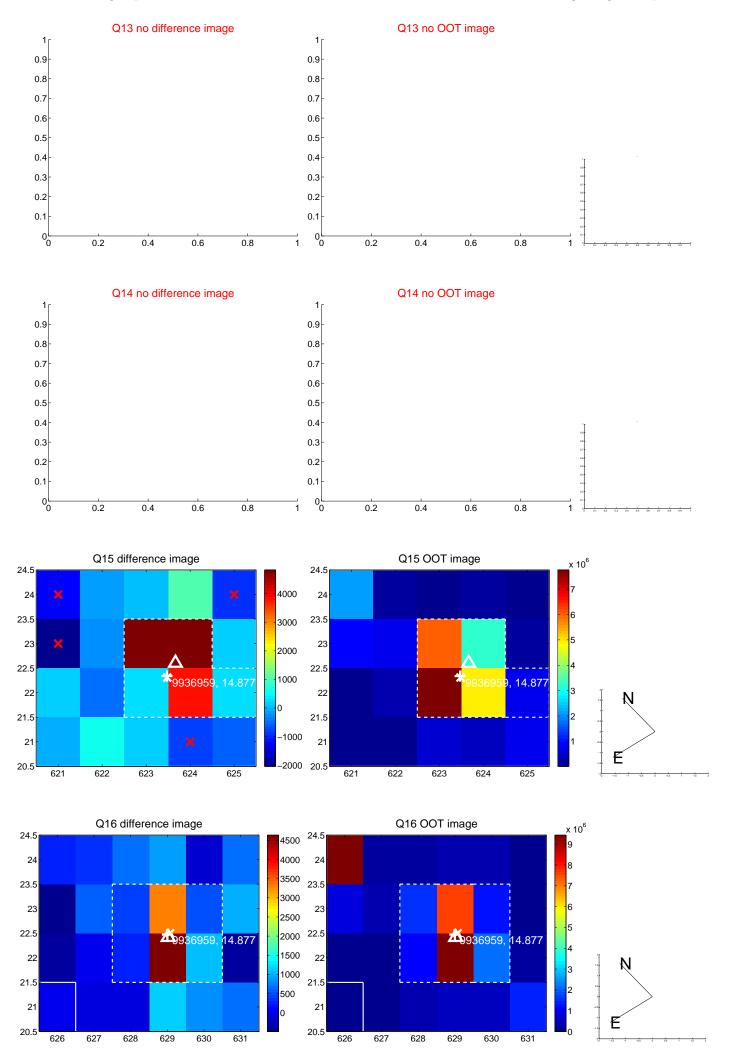


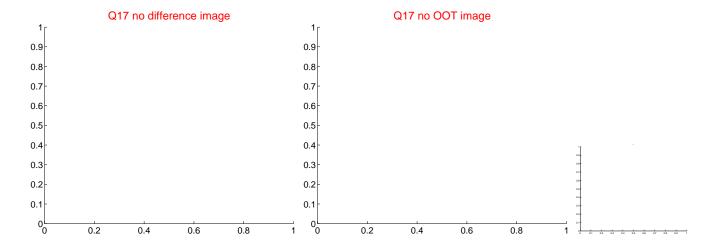
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . 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.

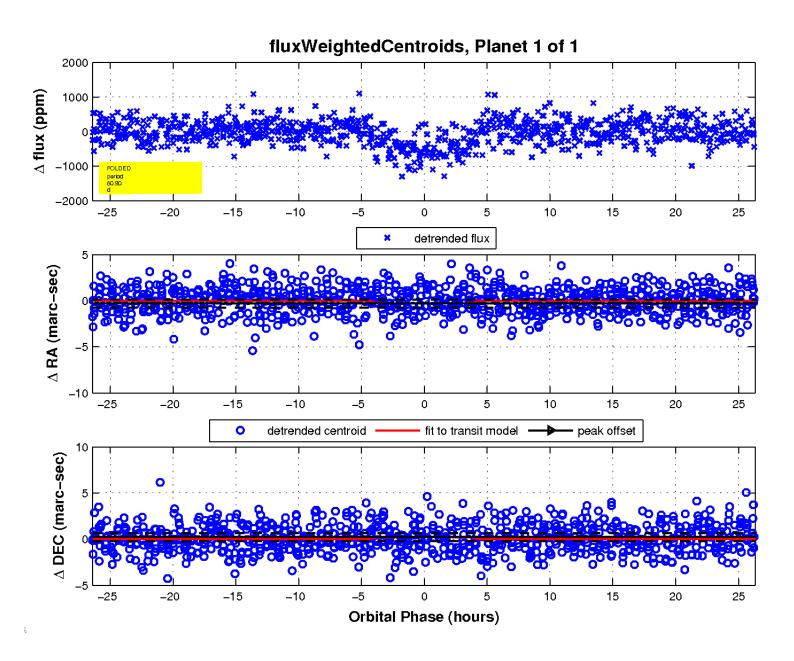












UKIRT Image

