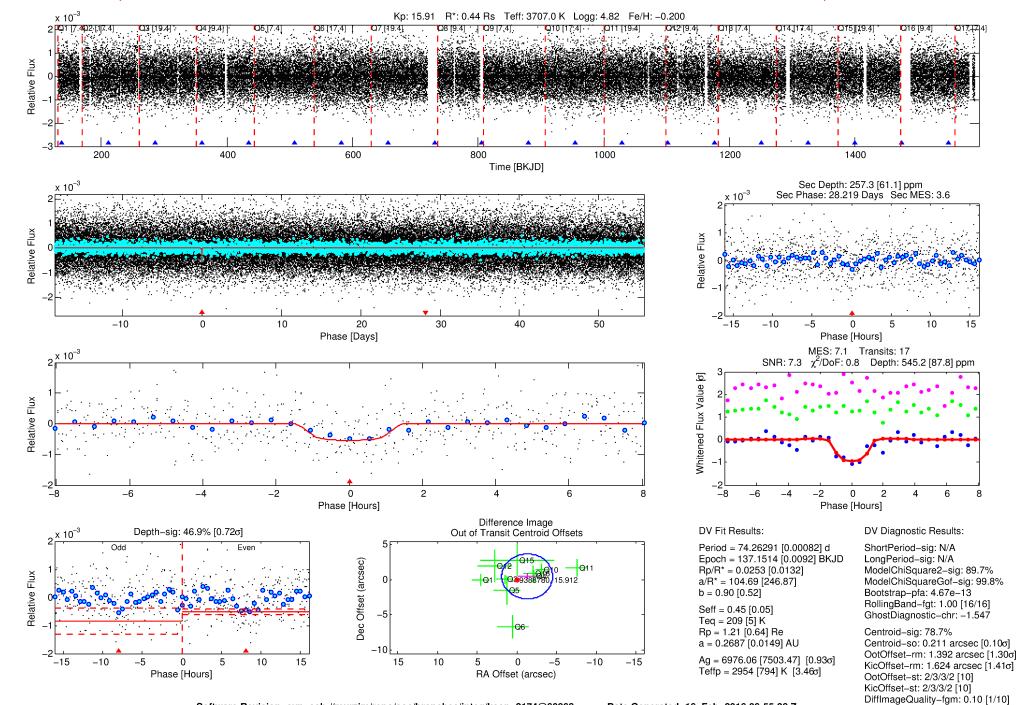
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

DV One-Page Summary

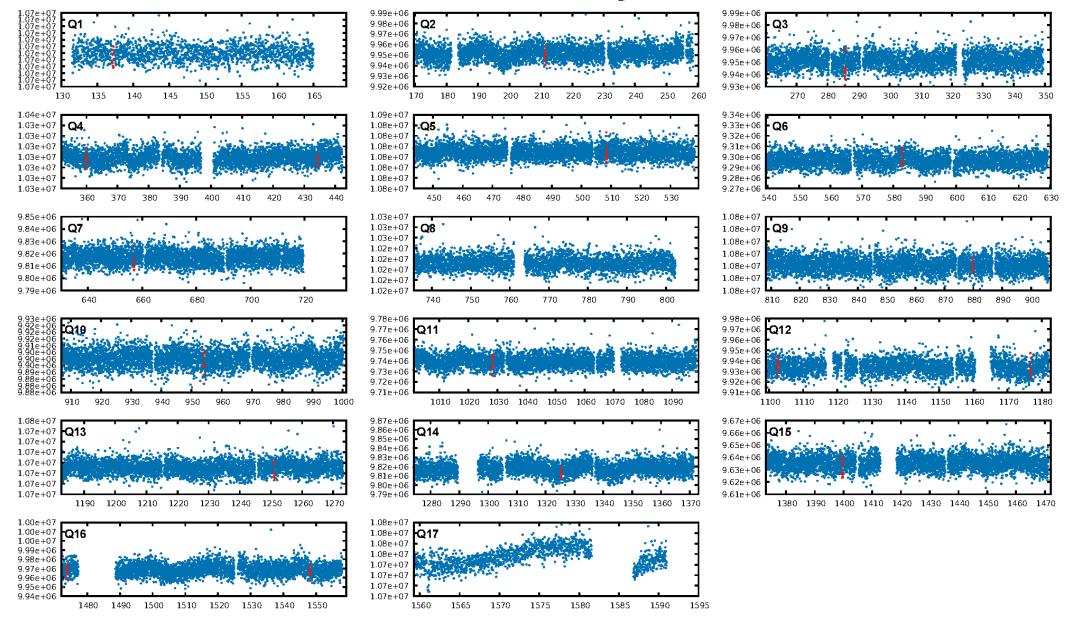
KIC: 9388780 Candidate: 1 of 1 Period: 74.263 d

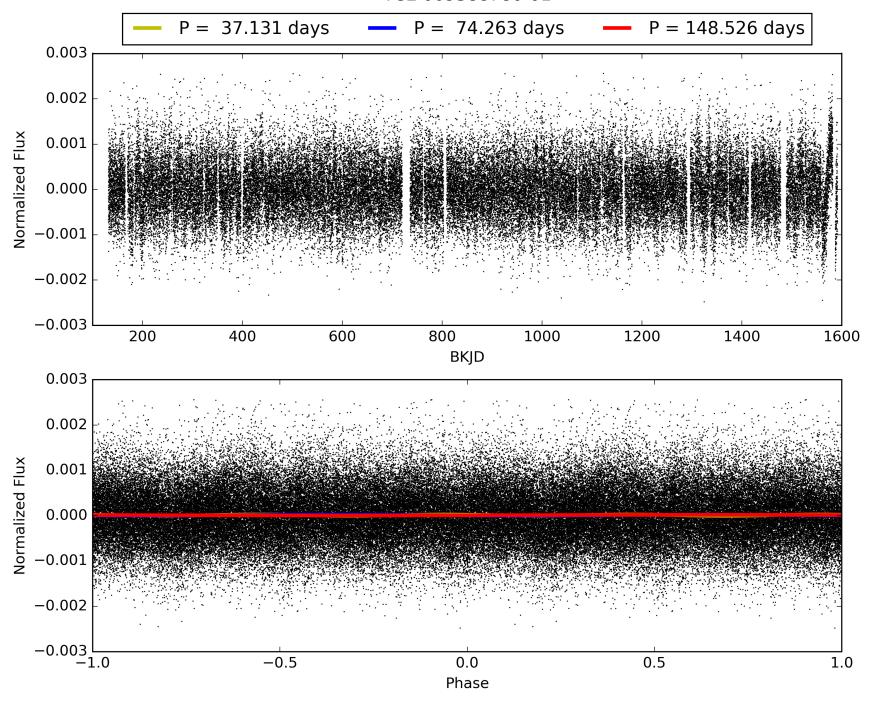
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

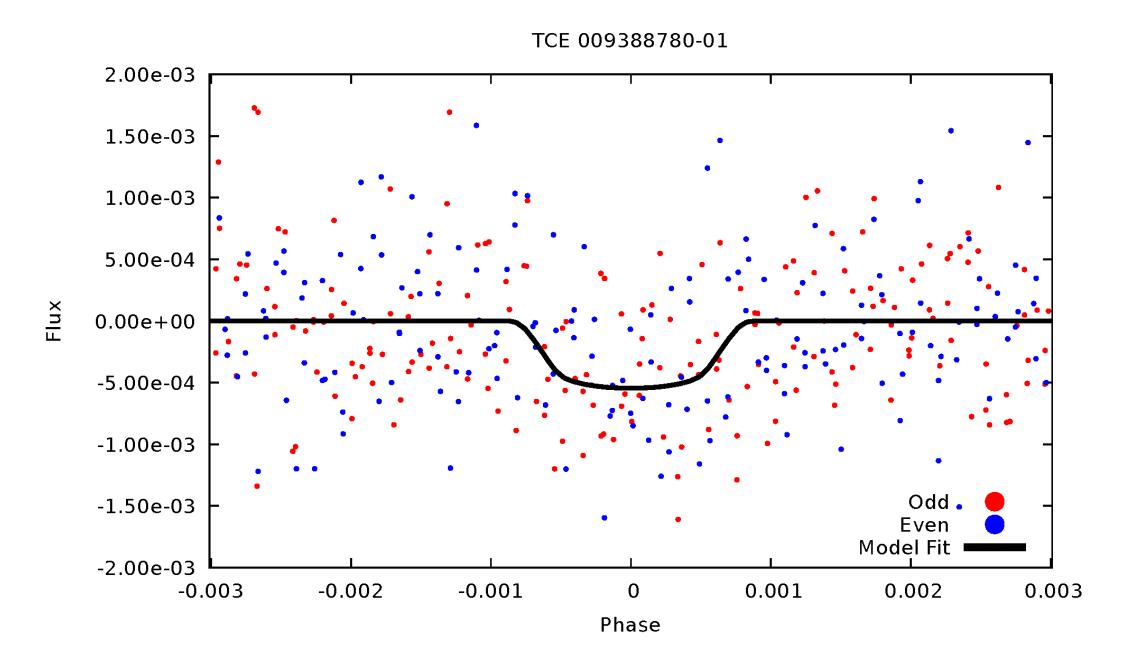
DiffImageOverlap-fno: 1.00 [15/15]



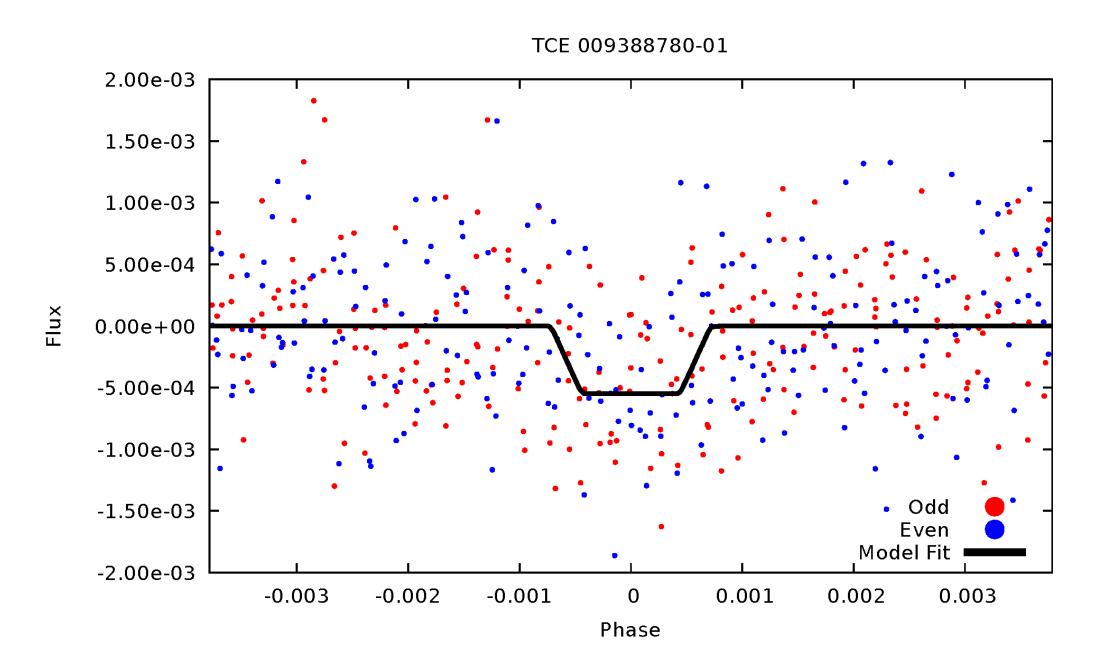
TCE 009388780-01, PDC Light Curves



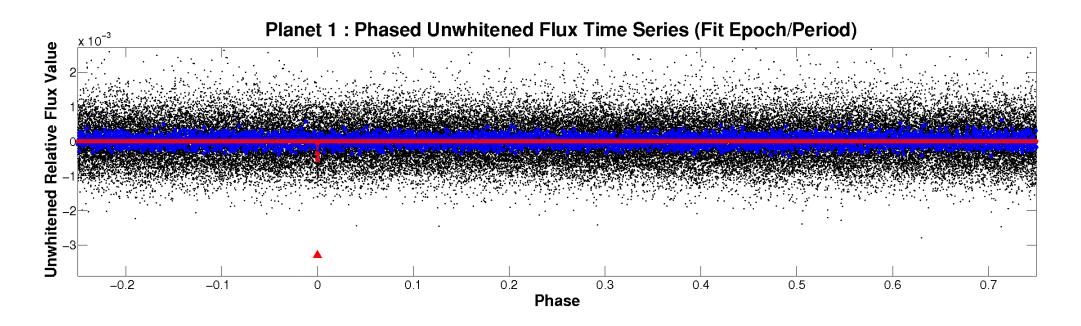


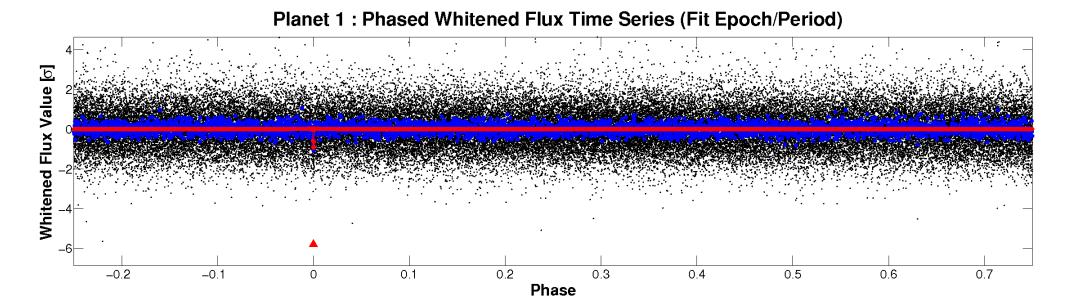


ALT Odd/Even



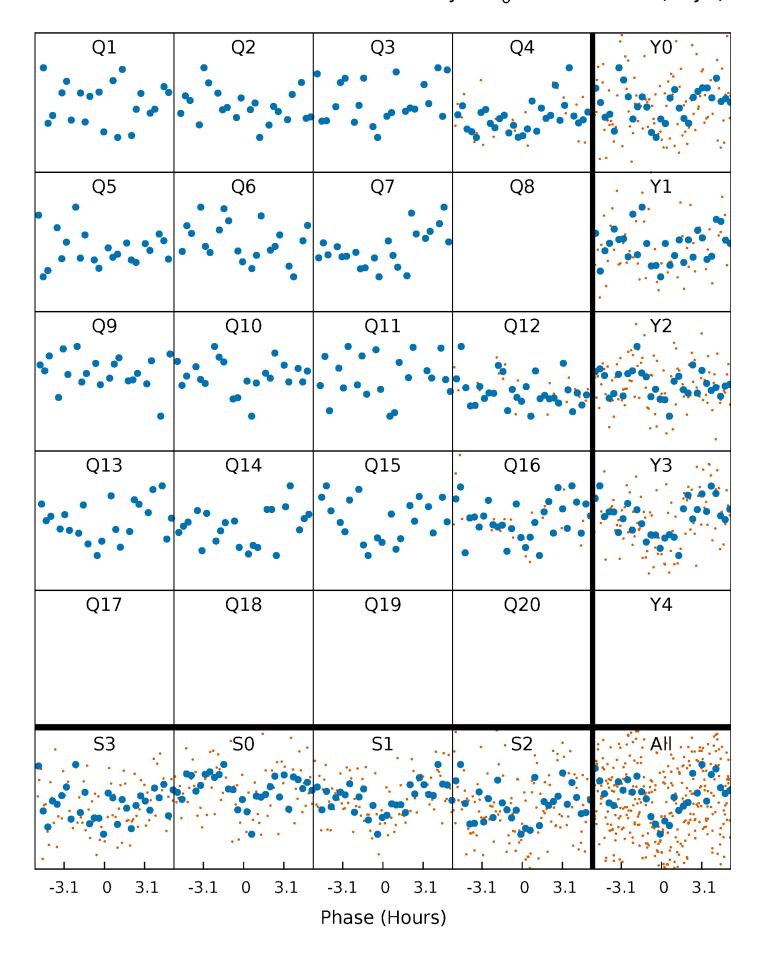
Non-Whitened Vs. Whitened Light Curve





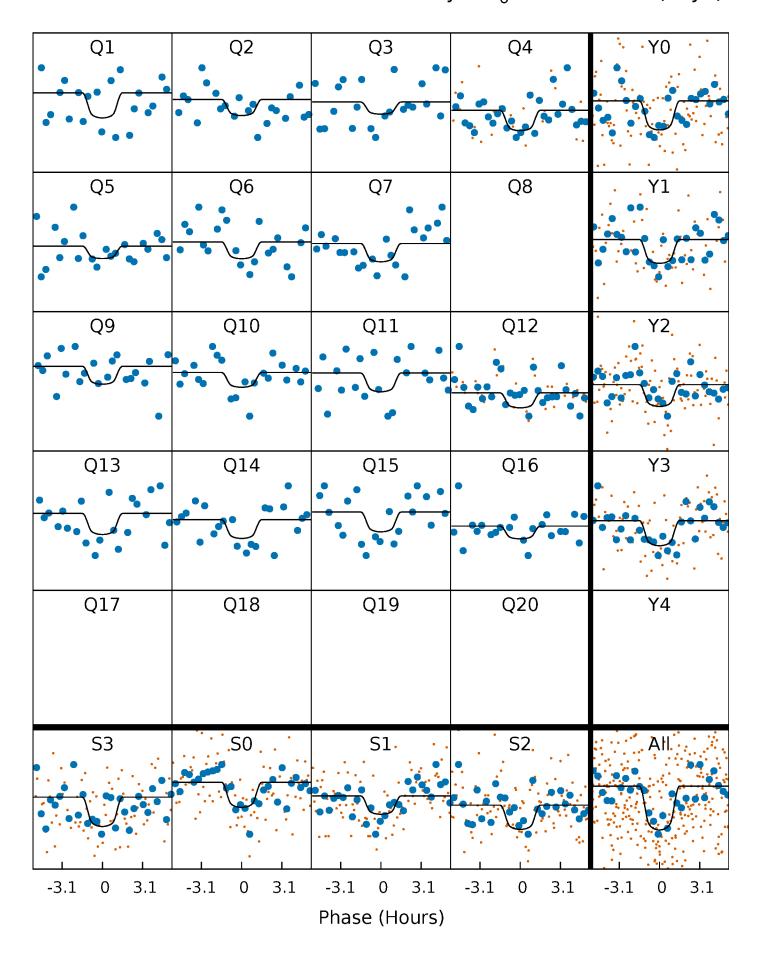
PDC Quarter-Phased Transit Curves

TCE 009388780-01 $P = 74.262911 Days T_0 = 137.151428 (BKJD)$



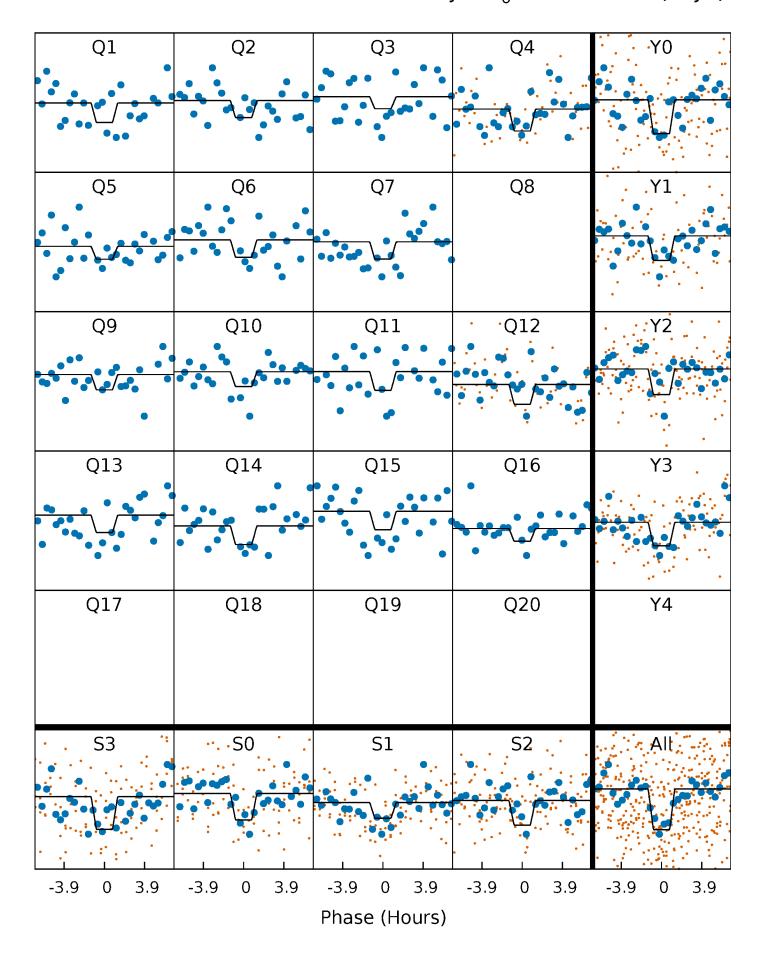
DV Quarter-Phased Transit Curves

TCE 009388780-01 P= 74.262911 Days $T_0=137.151428$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

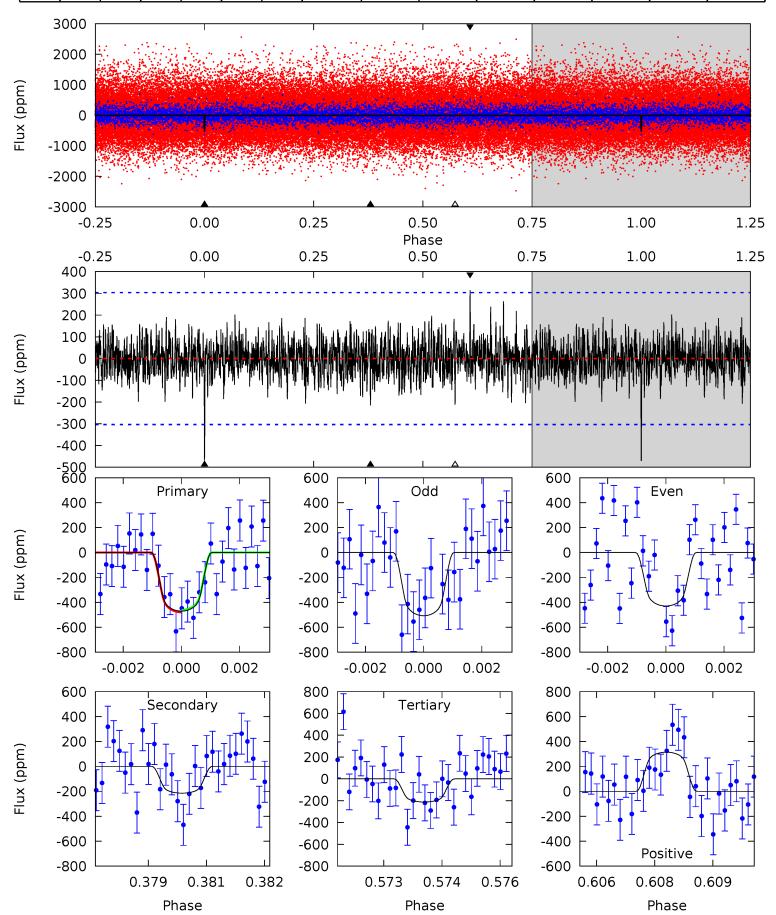
TCE 009388780-01 P= 74.263792 Days $T_0=137.146415$ (BKJD)



DV Model-Shift Uniqueness Test

009388780-01, P = 74.262911 Days, E = 62.888517 Days

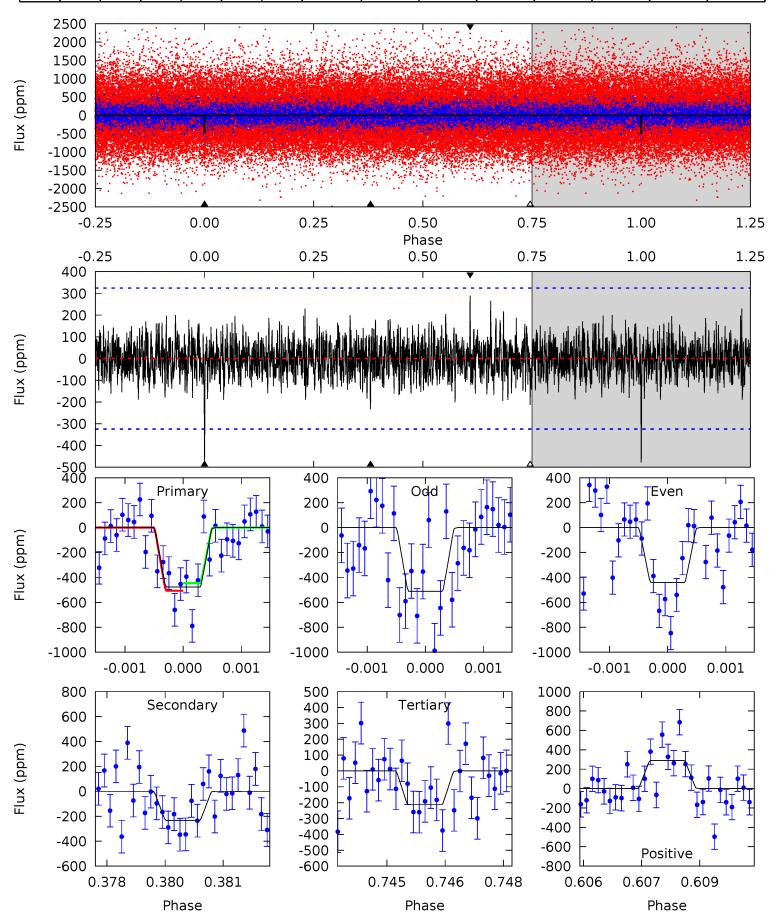
	Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
ſ	8.32	3.80	3.75	5.55	5.36	3.14	1.22	4.57	2.77	0.05	-1.75	0.69	0.91	0.40	0.15



Alt Model-Shift Uniqueness Test

009388780-01, P = 74.263792 Days, E = 62.882623 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.93	3.88	3.53	4.81	5.38	3.18	1.12	4.40	3.12	0.35	-0.93	0.58	0.95	0.38	0.50



Stellar Parameters For KIC 009388780

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R \left(\mathrm{R}_{\odot} \right)$	$M(\mathrm{M}_{\odot})$	$p_{\star} (\text{g} \cdot \text{cm}^{-3})$
	3707^{+44}_{-66}	$4.824^{+0.031}_{-0.038}$	$-0.200^{+0.100}_{-0.100}$	$0.439^{+0.031}_{-0.031}$	$0.469^{+0.026}_{-0.037}$	$7.809^{+1.252}_{-1.078}$
	+1%/-2%	+1%/-1%	+50%/-50%	+7%/-7%	+6%/-8%	+16%/-14%
Source	PHO2	PHO2	PHO2		DSEP	

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

Secondary Eclipse Parameters for KIC 009388780-01 / KOI

Detrend	Depth (ppm)	$R_p(R_{\bigoplus})$	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-215±57	$1.28^{+0.60}_{-0.64}$	292^{+6}_{-6}	3071_{-328}^{+740}	5175^{+15303}_{-2982}
Alt.	-234±60	$1.16^{+0.61}_{-0.58}$	292^{+6}_{-6}	3190^{+801}_{-367}	6704^{+20009}_{-3907}

 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 $A_{obs} \gg 1.0$

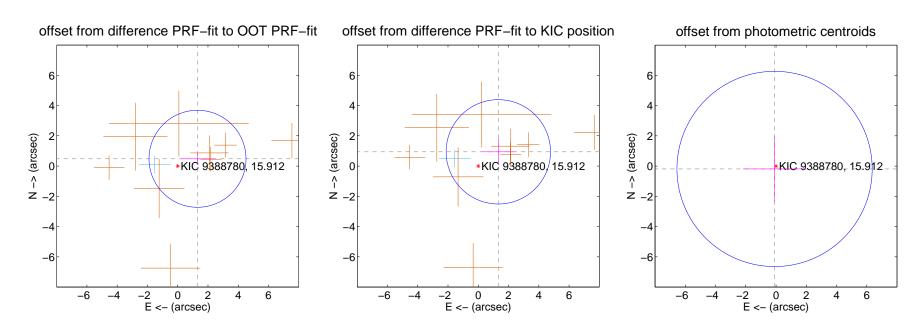
DV Centroid Data

Supplemental centroid analysis for 009388780-01. Kepler magnitude: 15.91. Transit SNR 7.35

There are 1 quarters with good PRF difference image offsets

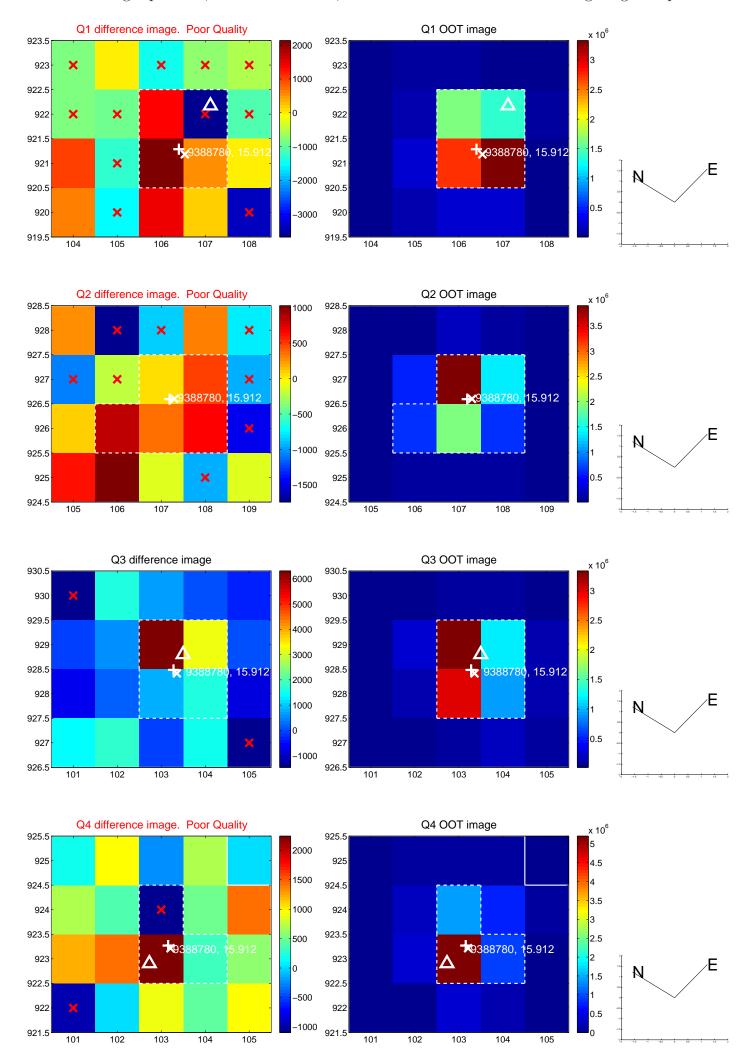
The direct PRF centroid is offset from the target star catalog position by about 0.44 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.392 ± 1.068	1.30	-1.307 ± 1.128	0.480 ± 0.403
PRF-fit source offset from KIC position	1.624 ± 1.149	1.41	-1.324 ± 1.089	0.940 ± 0.856
photometric centroid source offset	0.21 ± 2.15	0.10	0.10 ± 2.08	-0.19 ± 2.17

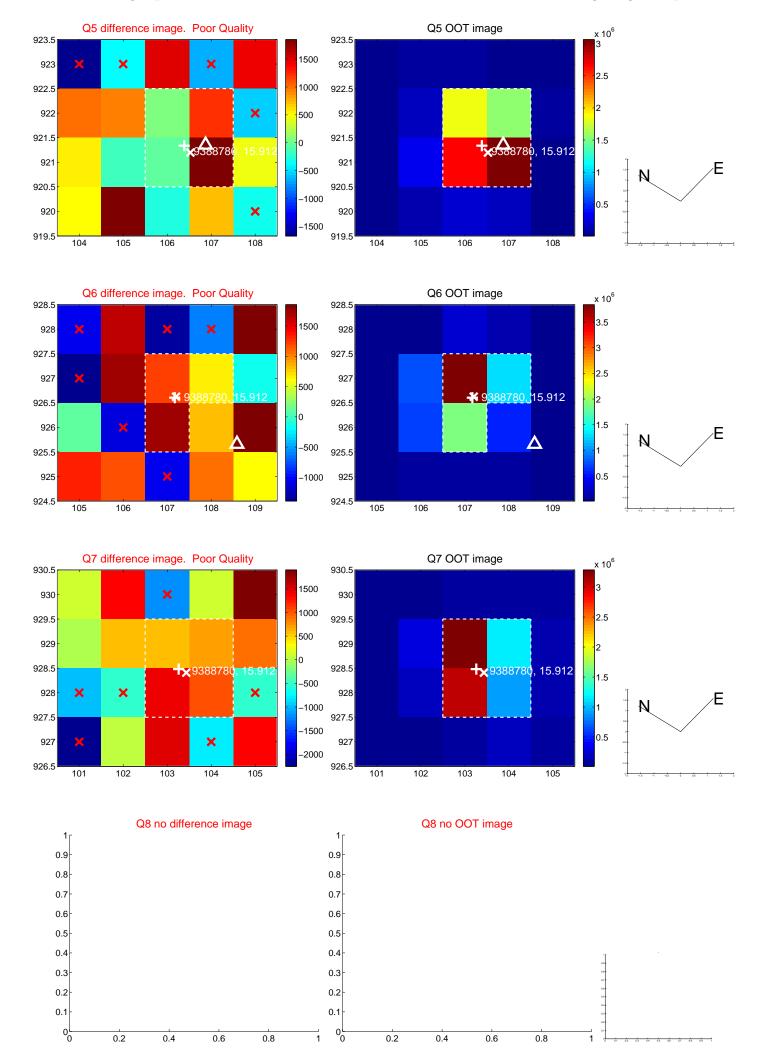


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

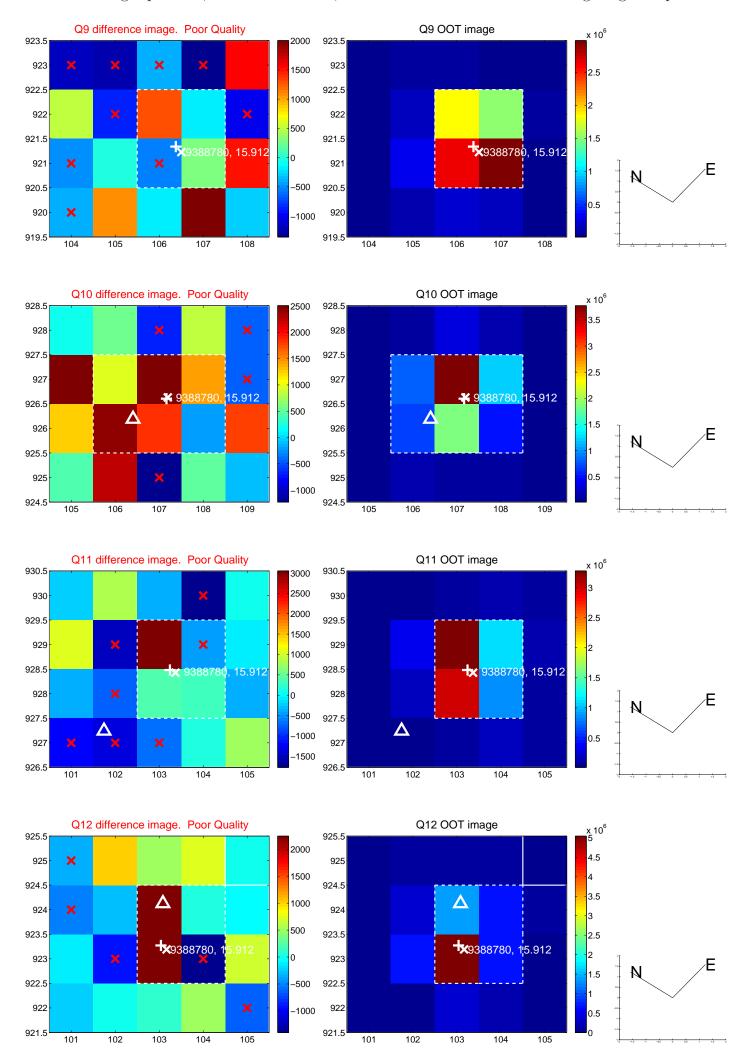
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



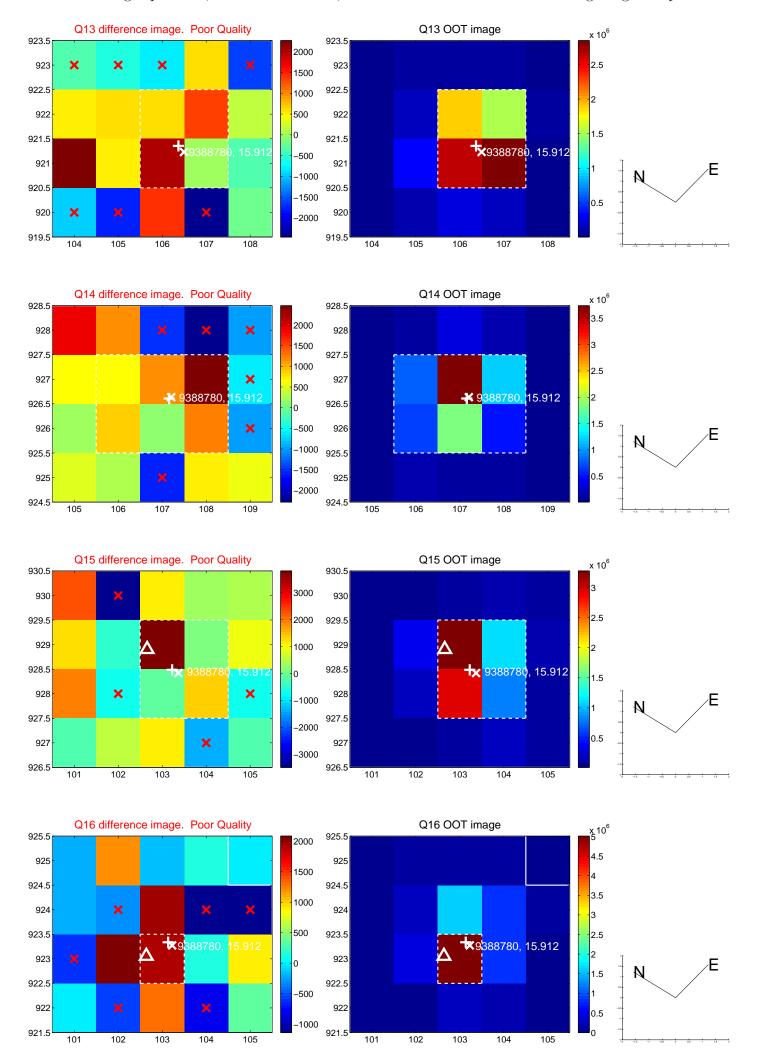
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

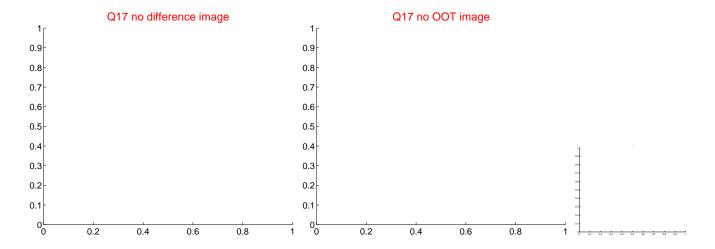


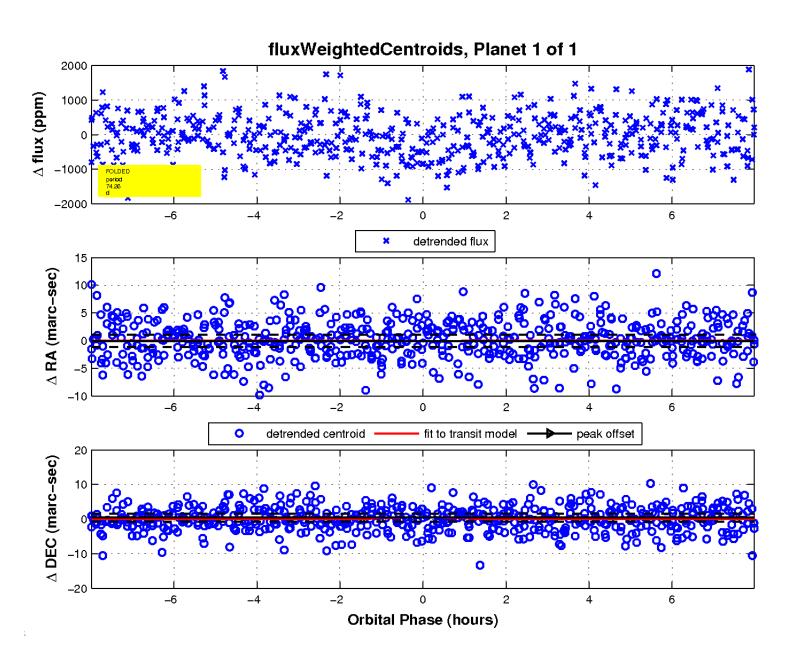
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.







UKIRT Image

