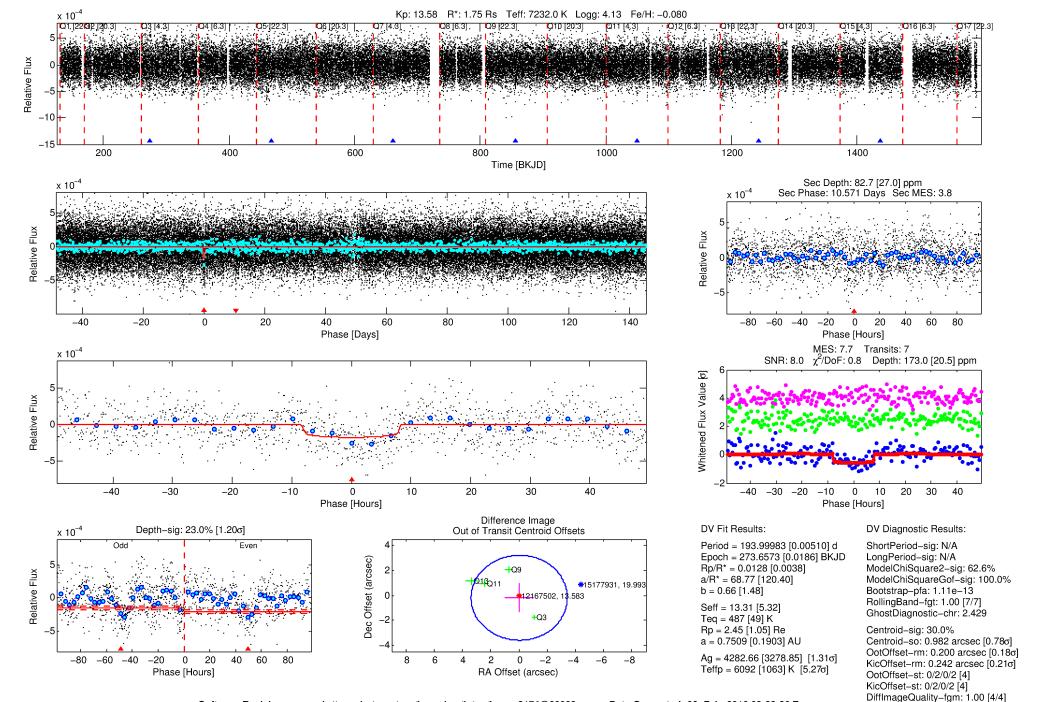
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

DV One-Page Summary

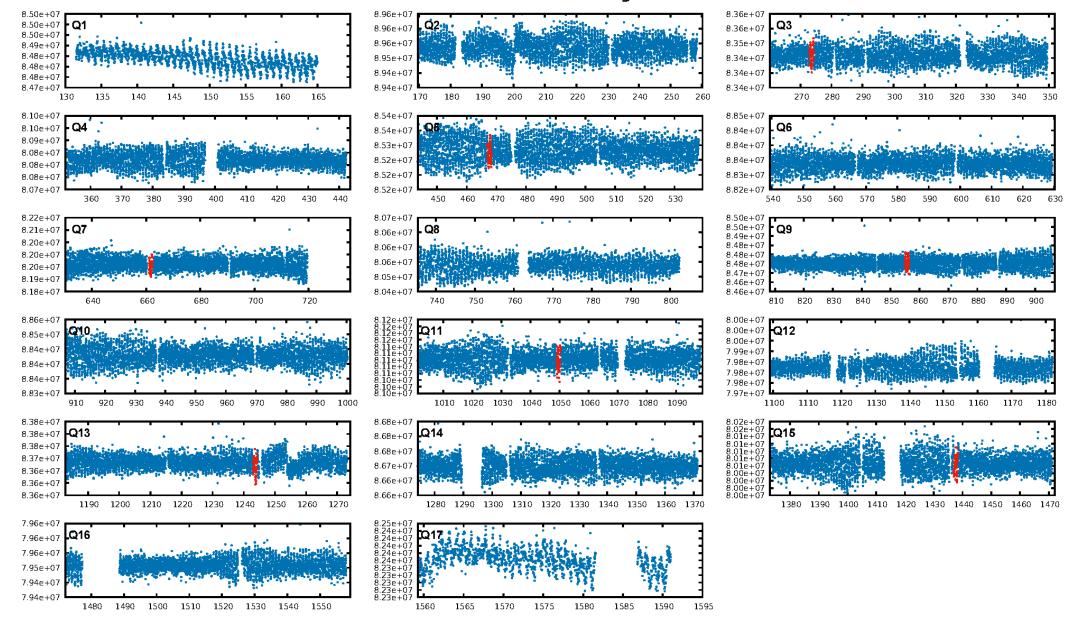
KIC: 12167502 Candidate: 1 of 1 Period: 194.000 d

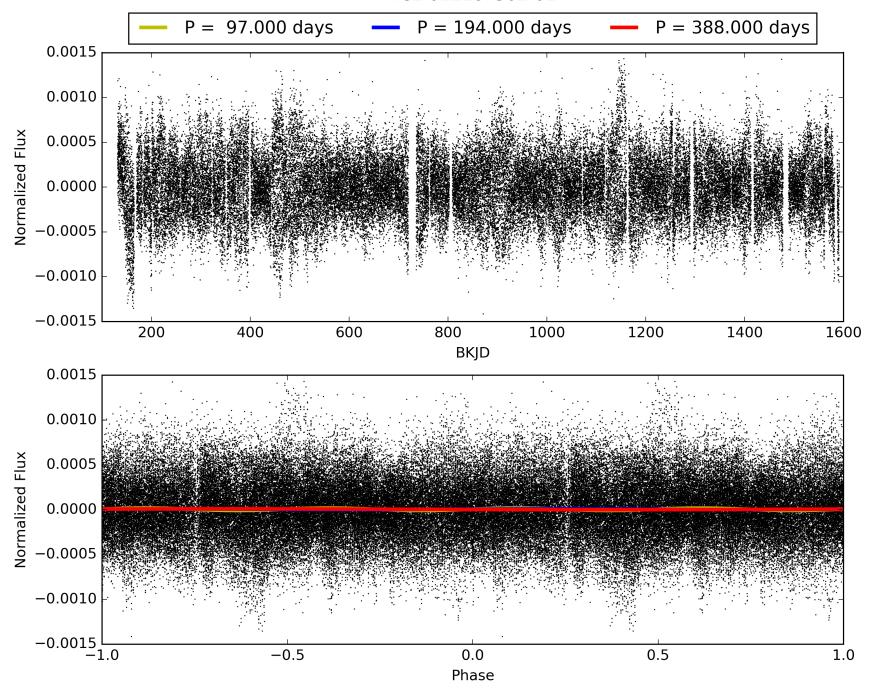
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

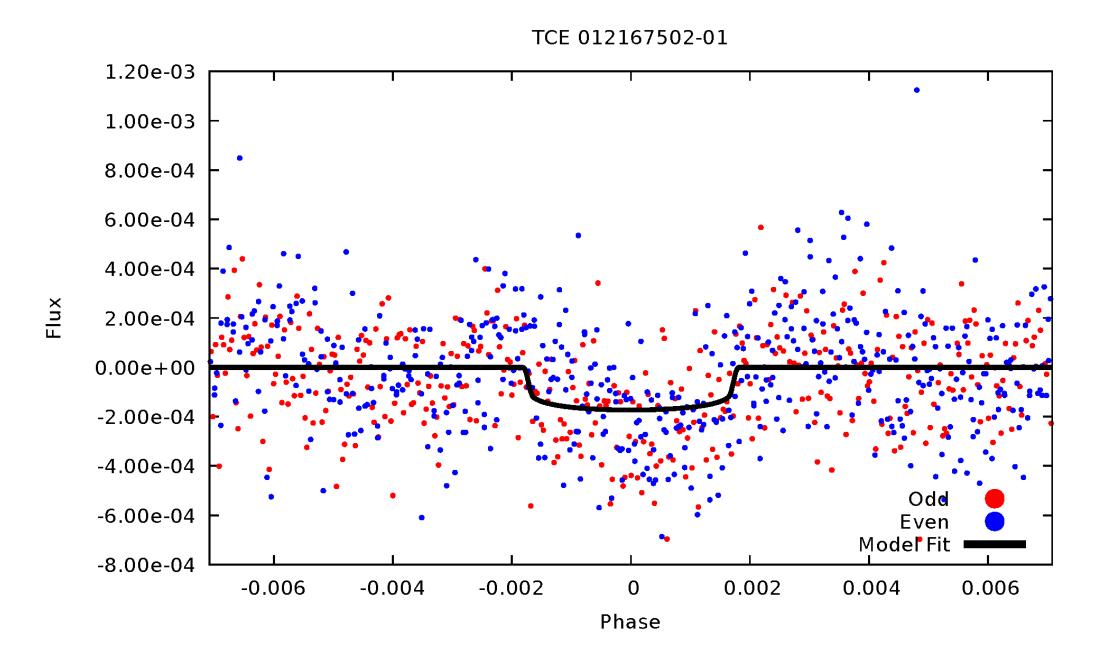
DiffImageOverlap-fno: 1.00 [5/5]



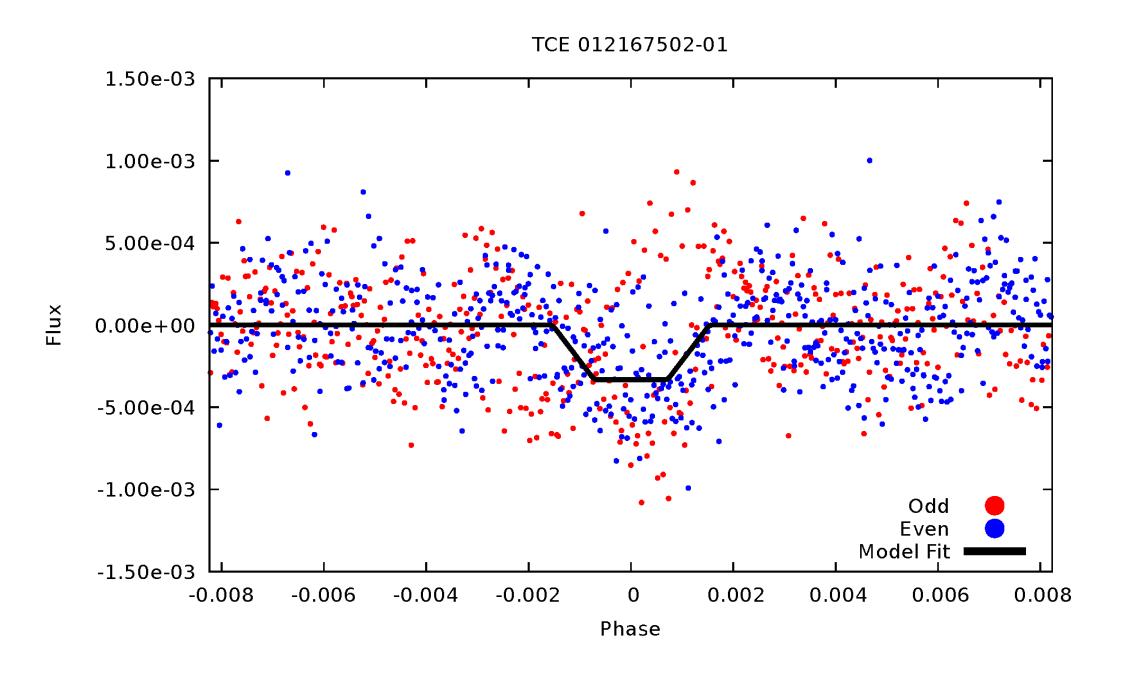
TCE 012167502-01, PDC Light Curves



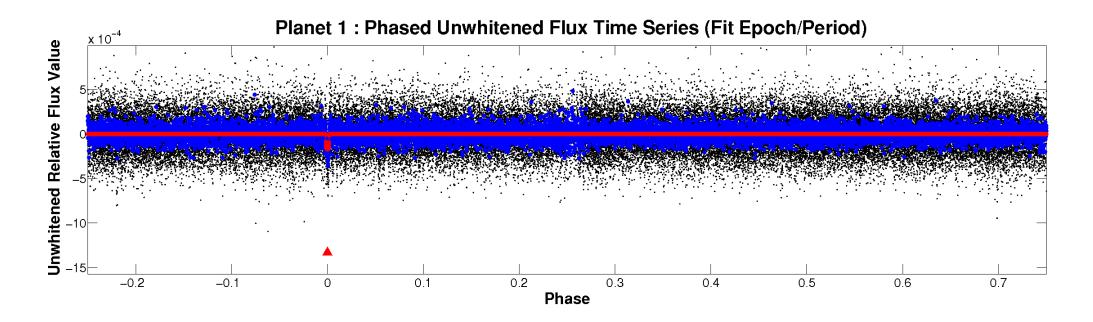


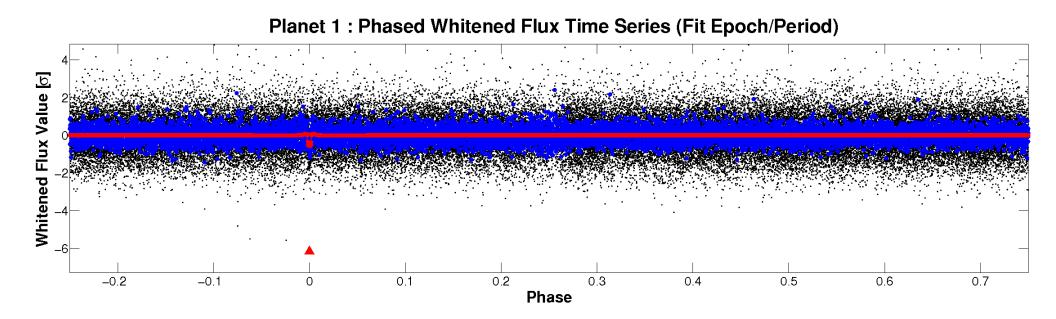


ALT Odd/Even



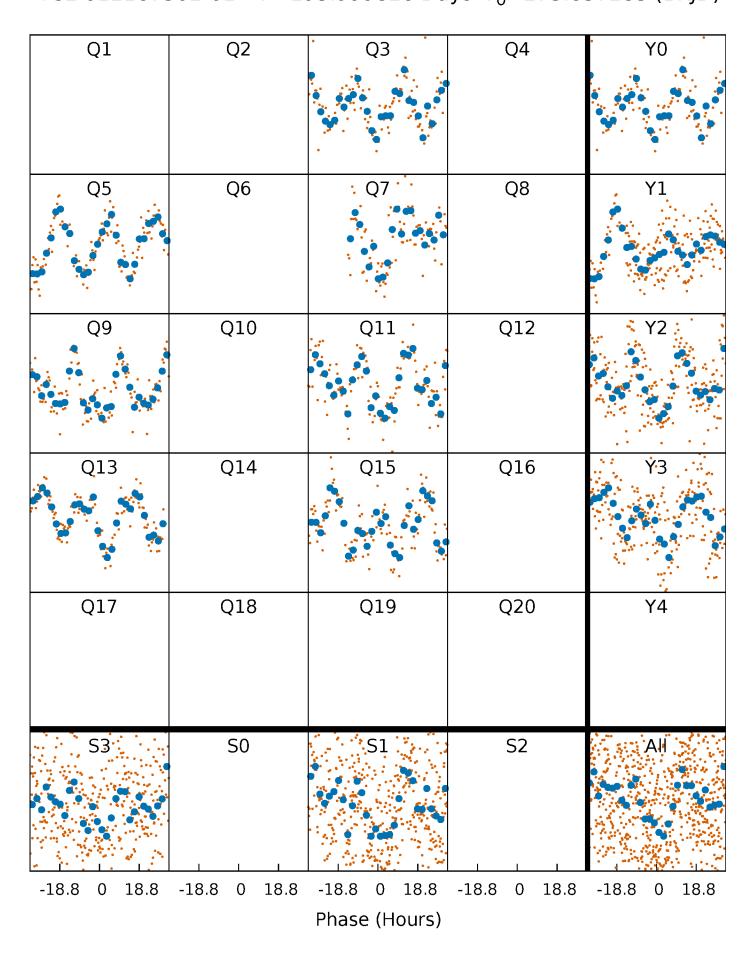
Non-Whitened Vs. Whitened Light Curve





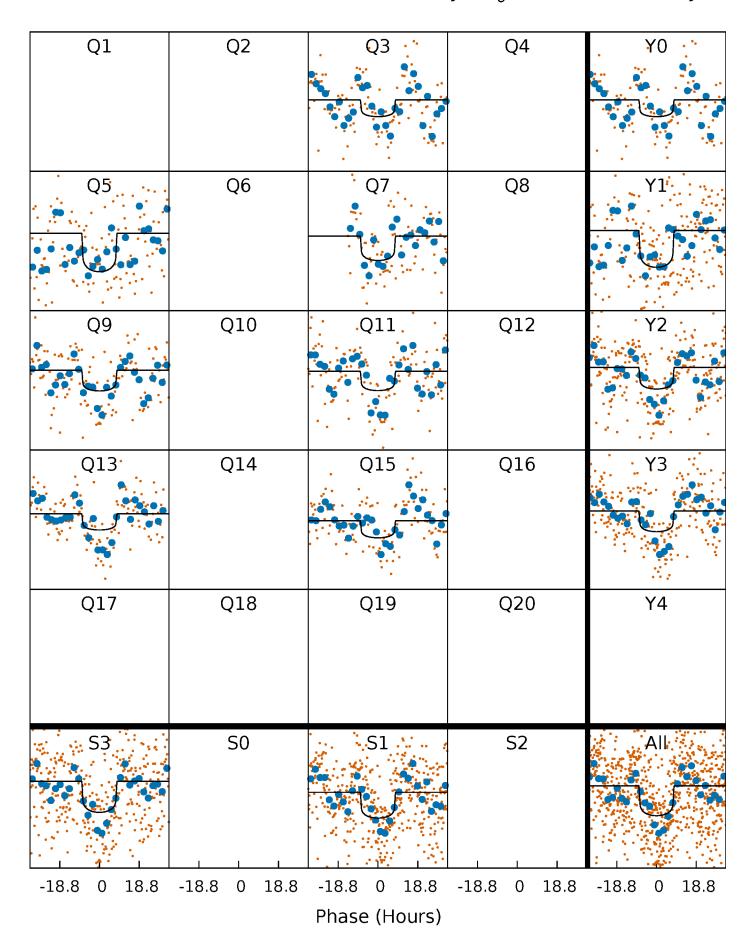
PDC Quarter-Phased Transit Curves

TCE 012167502-01 $P=193.999826 Days T_0=273.657283 (BKJD)$



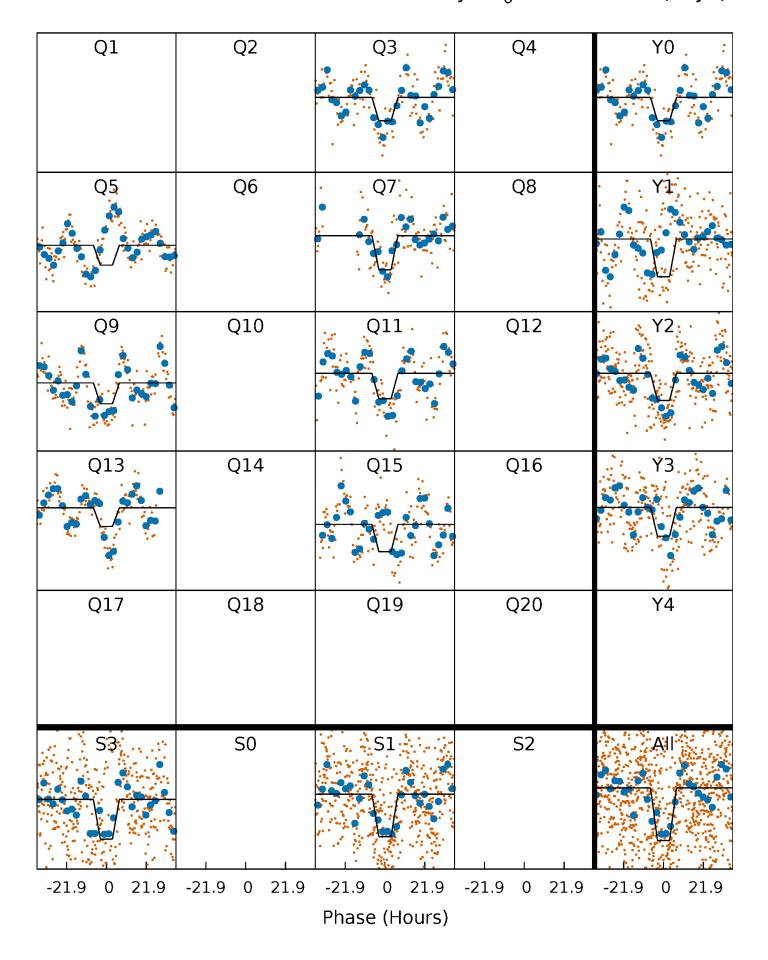
DV Quarter-Phased Transit Curves

TCE 012167502-01 $P=193.999826 Days T_0=273.657283 (BKJD)$



Alt. Detrend Quarter-Phased Transit Curves

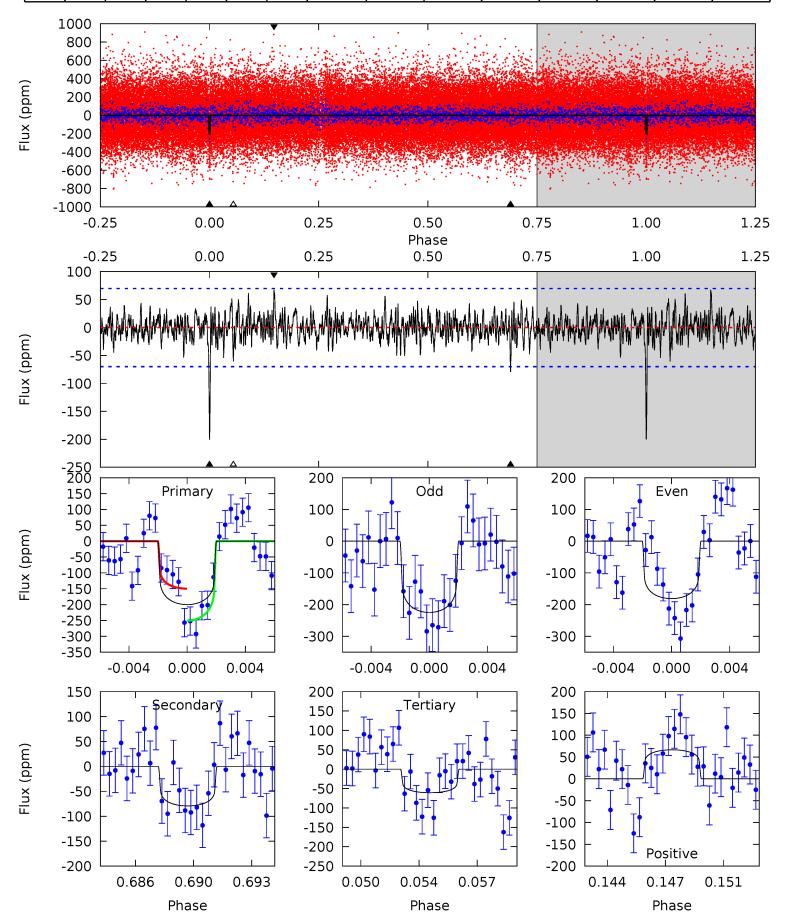
TCE 012167502-01 $P=194.009841 Days T_0=273.684117 (BKJD)$



DV Model-Shift Uniqueness Test

012167502-01, P = 193.999826 Days, E = 79.657457 Days

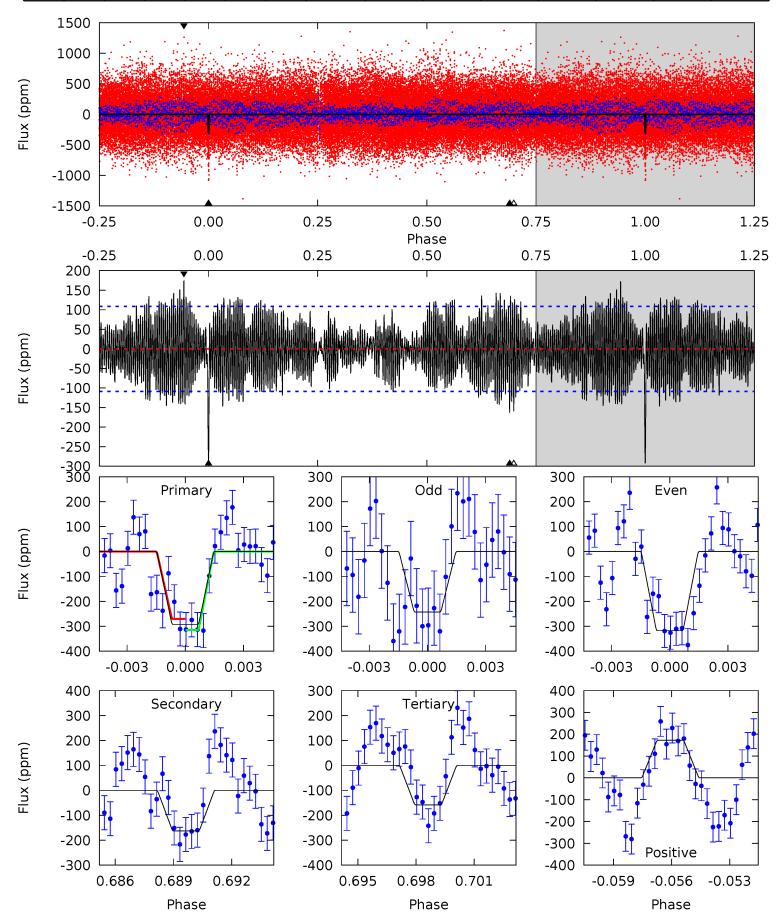
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.9	5.92	4.53	4.97	5.22	2.91	1.35	10.4	9.96	1.39	0.95	1.61	1.25	0.25	3.76



Alt Model-Shift Uniqueness Test

012167502-01, P = 194.009841 Days, E = 79.674276 Days

Р	ri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14	1.1	7.86	7.64	8.34	5.24	2.95	2.94	6.47	5.77	0.22	-0.48	1.79	0.60	0.37	1.06



Stellar Parameters For KIC 012167502

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(\mathrm{M}_{\bigodot})$	$p_{\star} (\text{g} \cdot \text{cm}^{-3})$
	7232^{+201}_{-316}	$4.128^{+0.128}_{-0.192}$	$-0.080^{+0.250}_{-0.350}$	$1.750^{+0.541}_{-0.361}$	$1.501^{+0.221}_{-0.243}$	$0.394^{+0.296}_{-0.196}$
	+3%/-4%	+3%/-5%	+312%/-438%	+31%/-21%	+15%/-16%	+75%/-50%
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 012167502-01 / KOI

Detrend	Depth (ppm)	$R_p(R_{\bigoplus})$	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-79±13	$2.51^{+0.82}_{-0.77}$	685^{+52}_{-44}	5913^{+1248}_{-683}	3933^{+4016}_{-1857}
Alt.	-163±21	$3.56^{+1.02}_{-0.87}$	686^{+52}_{-46}	5930^{+862}_{-539}	3916^{+2938}_{-1549}

 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 $A_{obs} \gg 1.0$

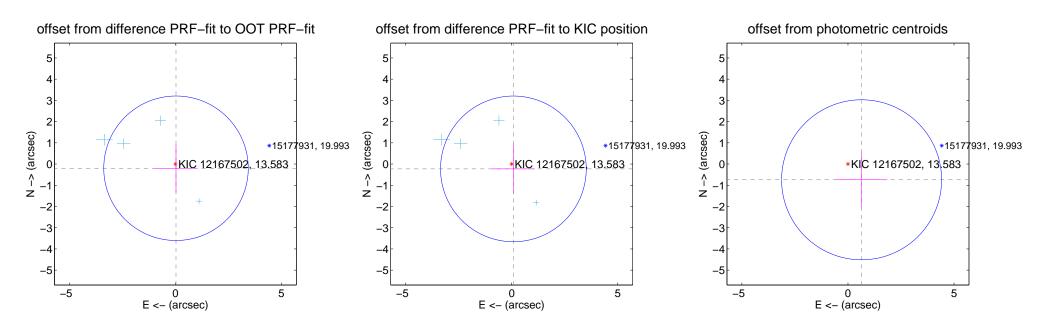
DV Centroid Data

Supplemental centroid analysis for 012167502-01. Kepler magnitude: 13.58. Transit SNR 8.00

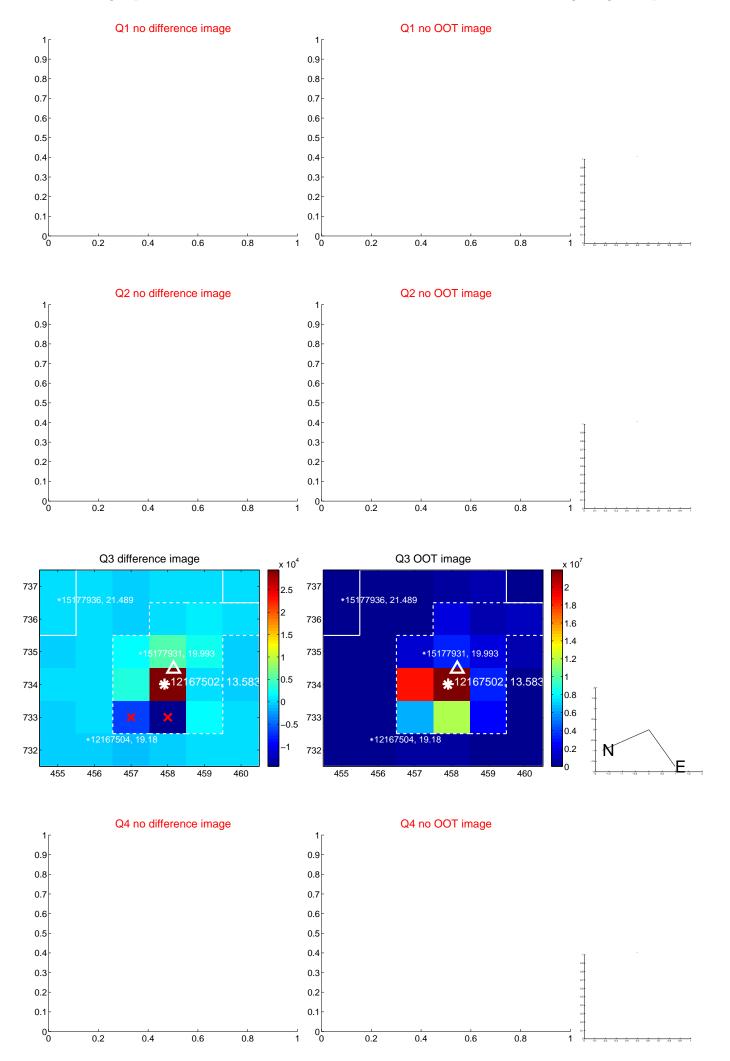
There are 4 quarters with good PRF difference image offsets

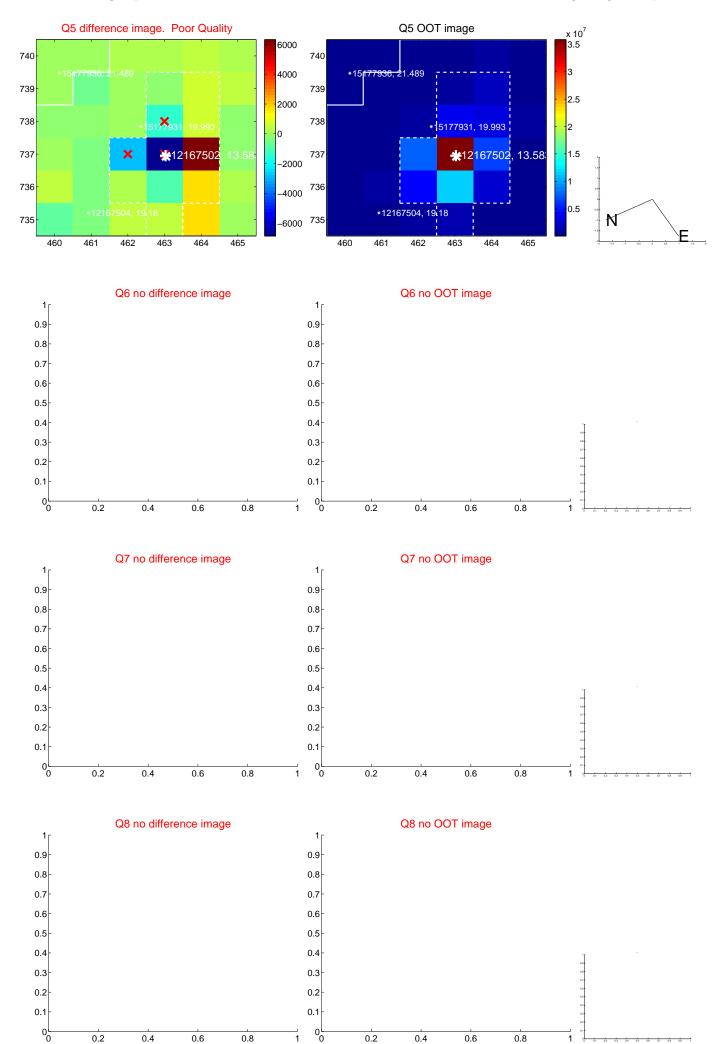
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

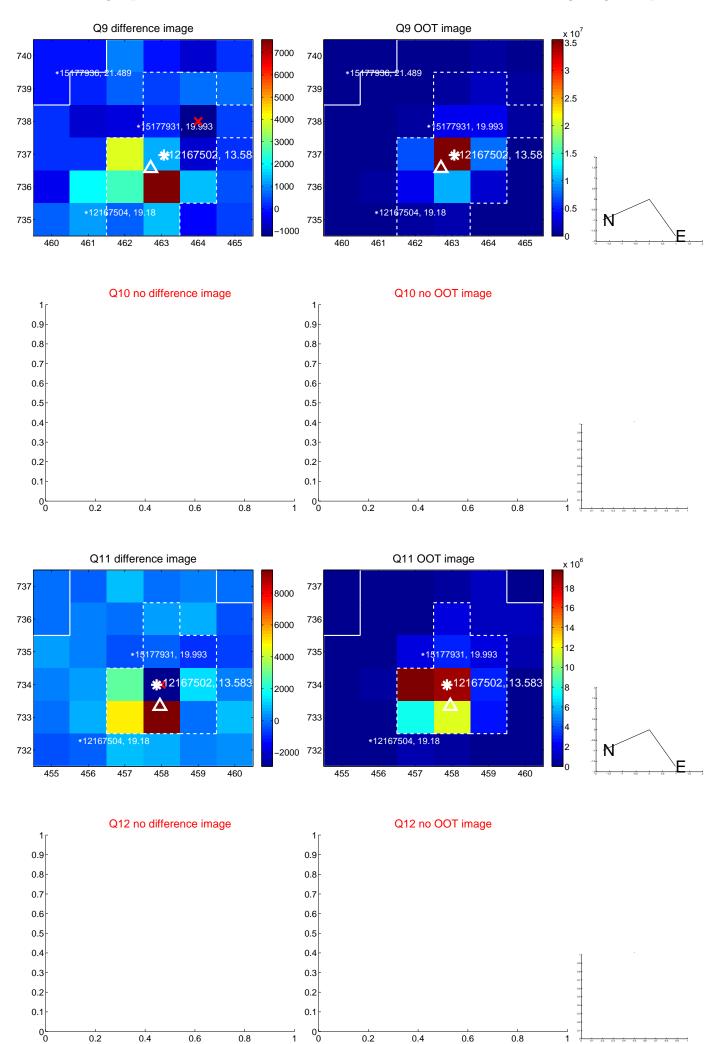
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.200 ± 1.135	0.18	-0.029 ± 1.021	-0.198 ± 1.137
PRF-fit source offset from KIC position	0.242 ± 1.144	0.21	-0.081 ± 1.014	-0.228 ± 1.160
photometric centroid source offset	0.98 ± 1.26	0.78	-0.64 ± 1.21	-0.74 ± 1.29

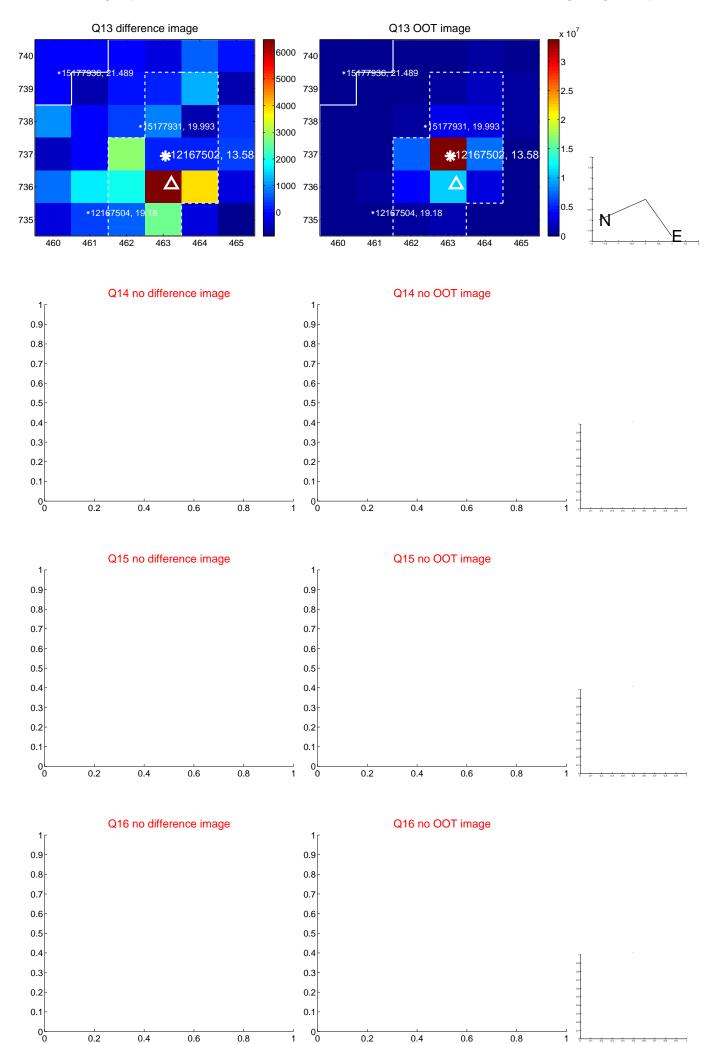


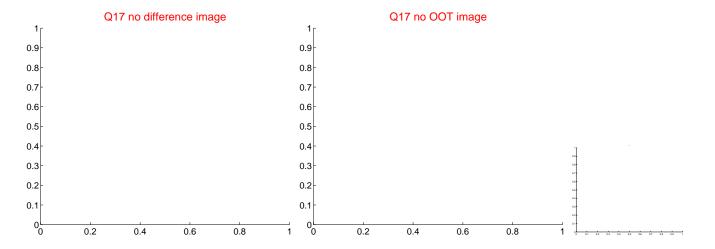
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

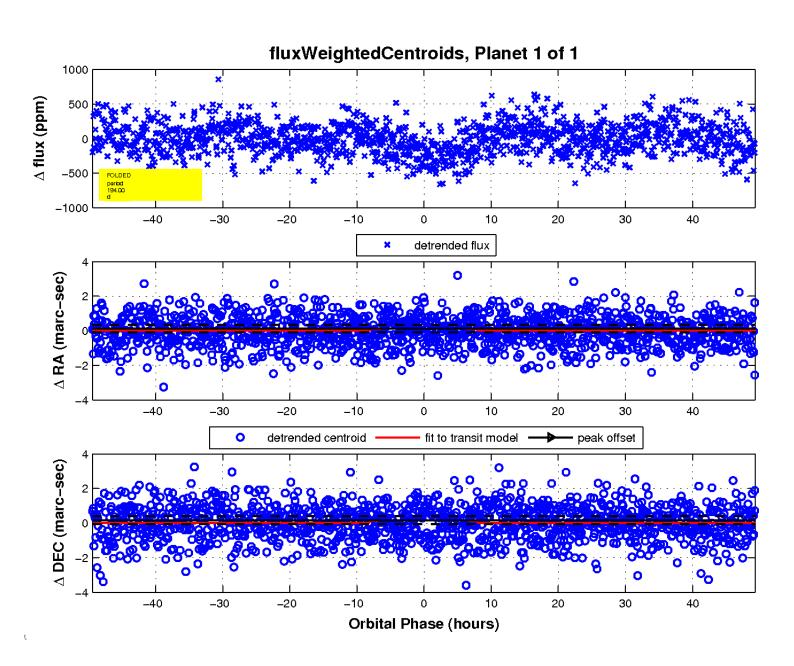












UKIRT Image

