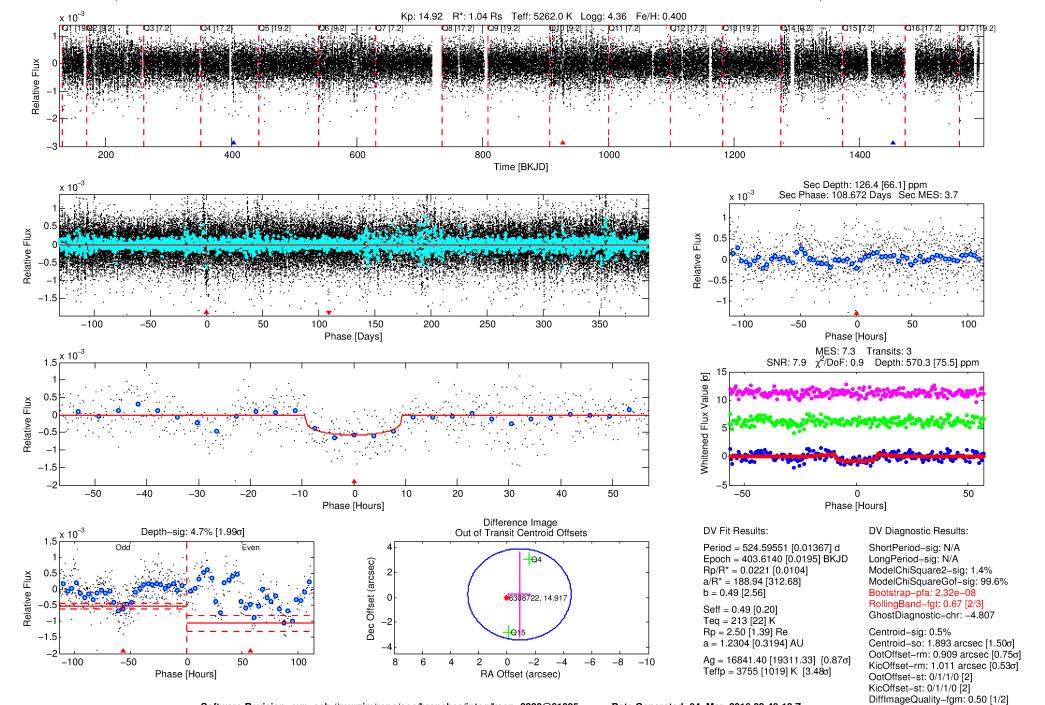
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

DV One-Page Summary

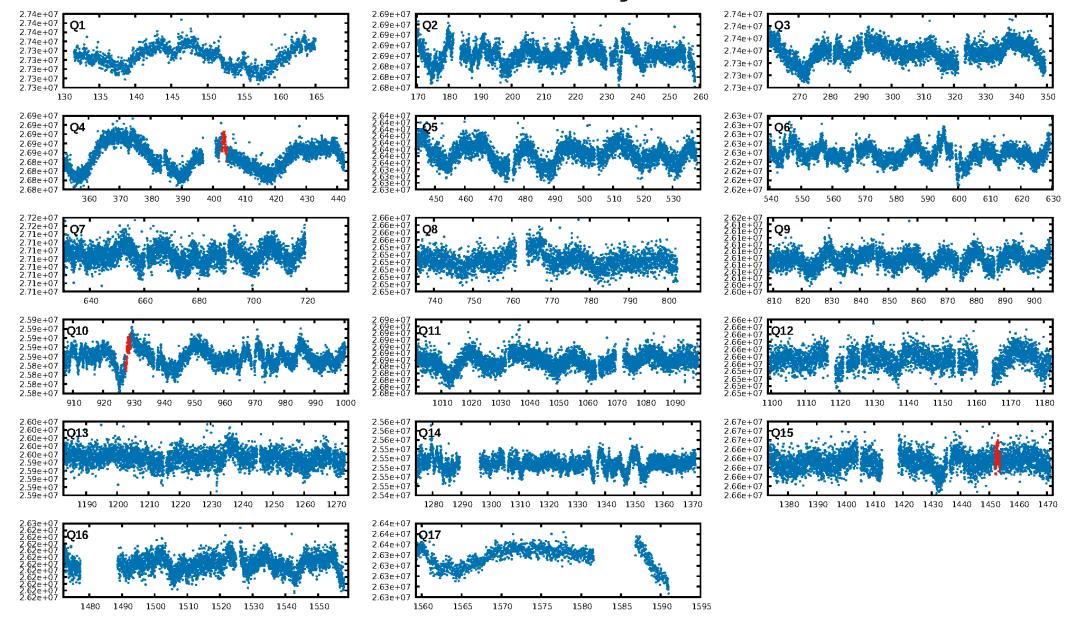
KIC: 8308722 Candidate: 1 of 1 Period: 524.596 d

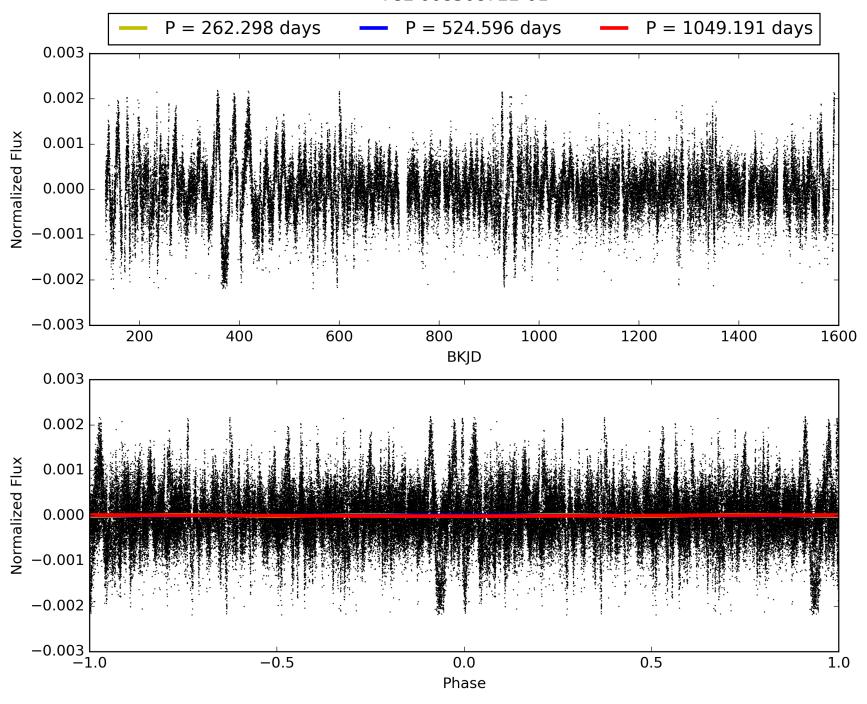
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

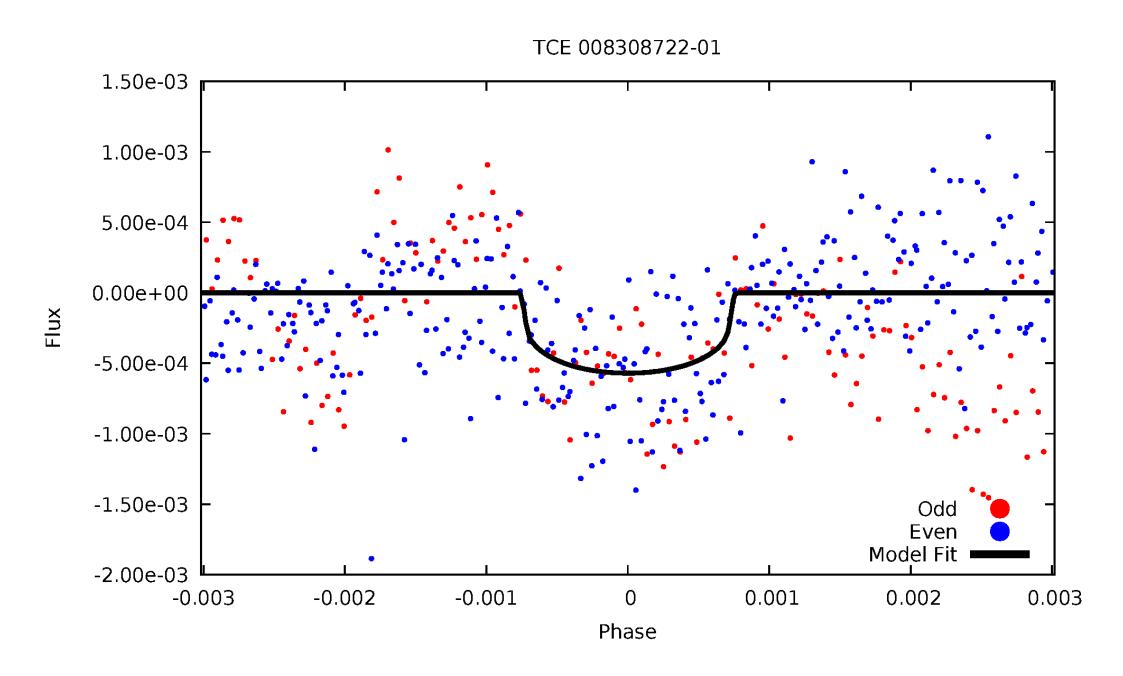
DiffImageOverlap-fno: 1.00 [3/3]



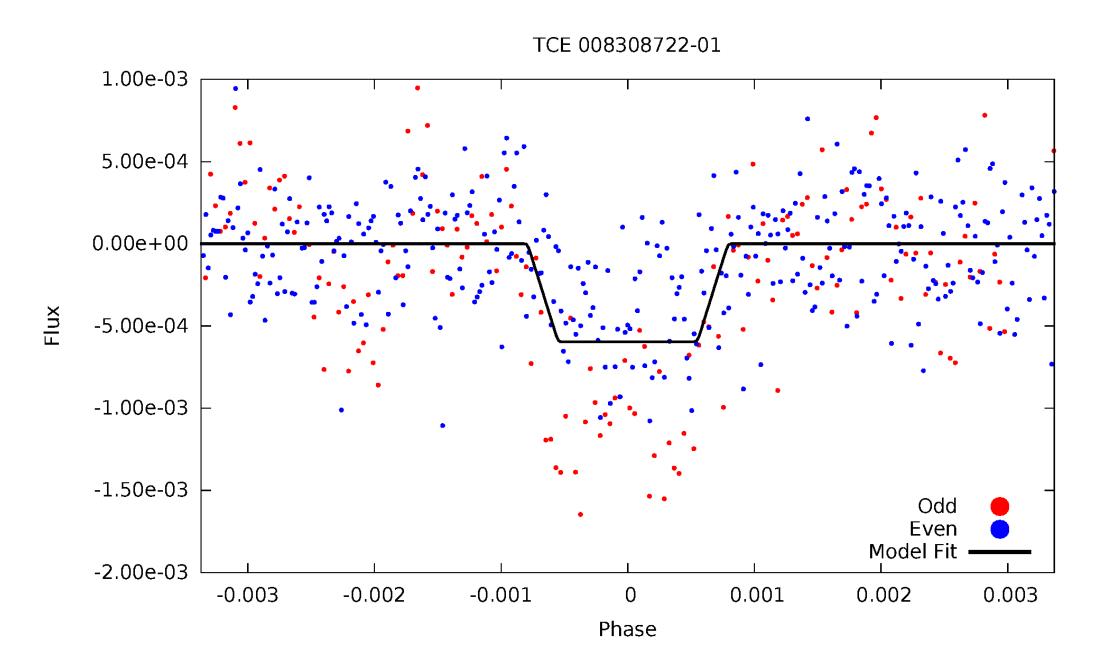
TCE 008308722-01, PDC Light Curves



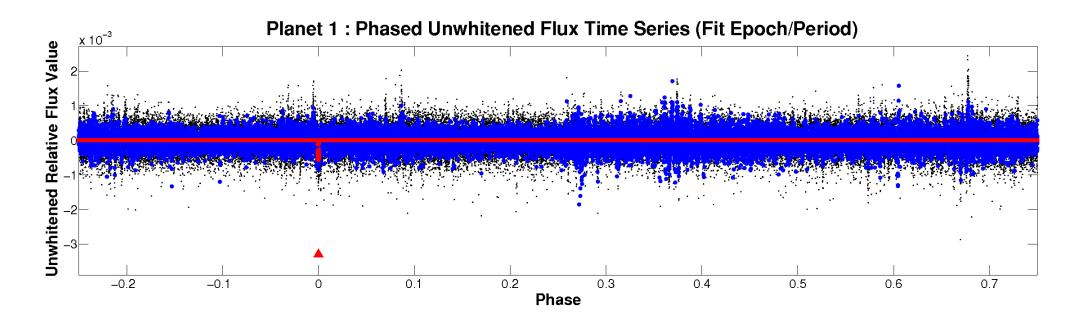


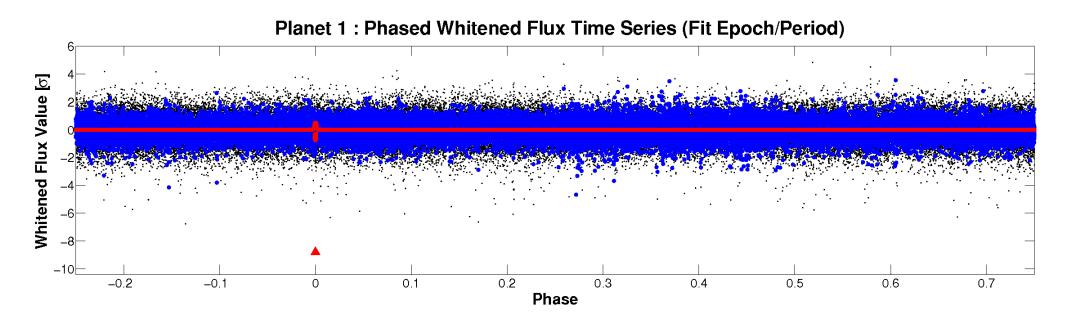


ALT Odd/Even



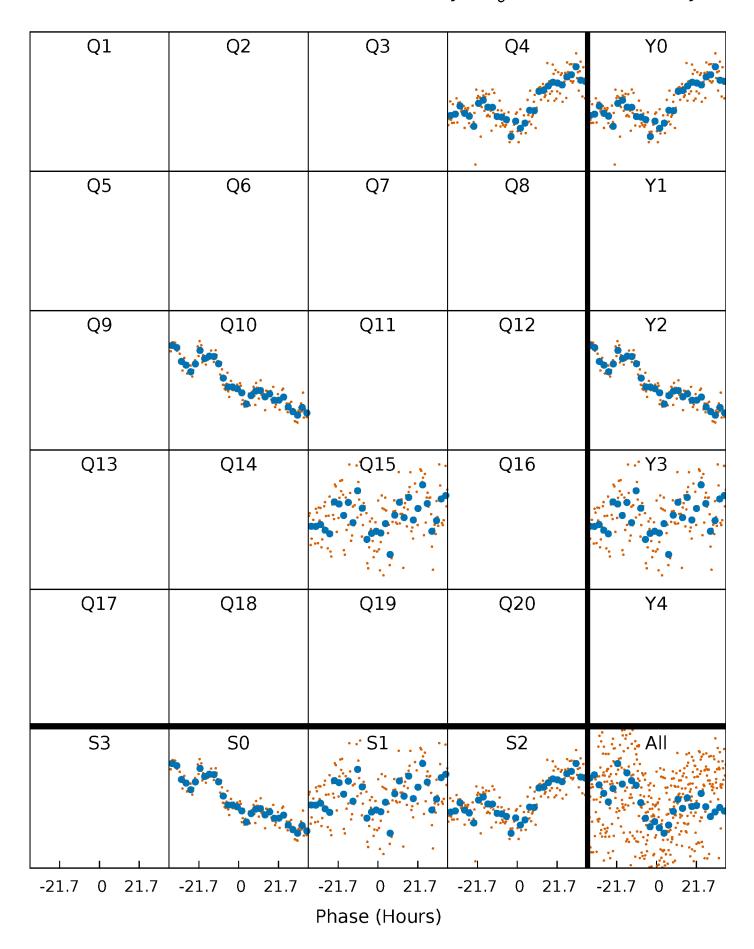
Non-Whitened Vs. Whitened Light Curve





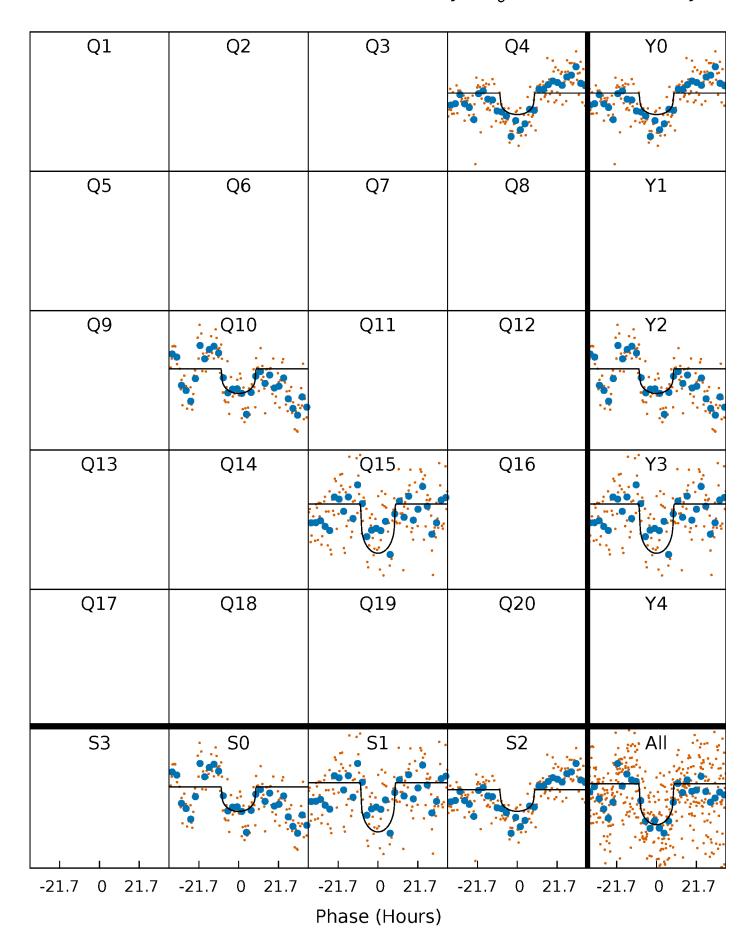
PDC Quarter-Phased Transit Curves

TCE 008308722-01 $P=524.595512 Days T_0=403.613951 (BKJD)$



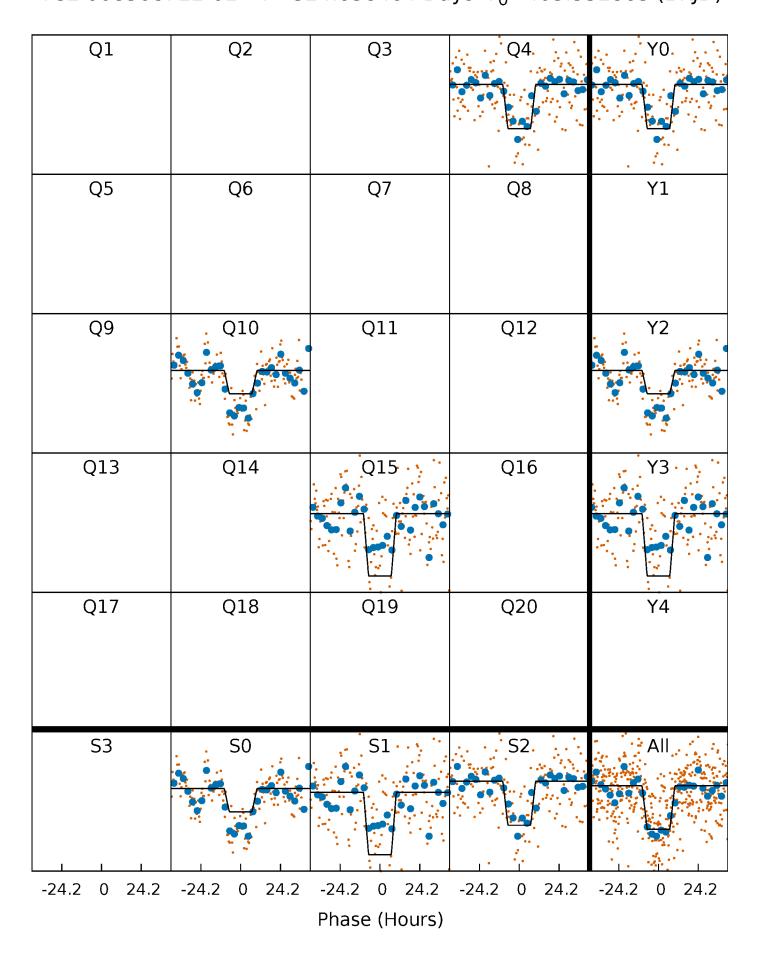
DV Quarter-Phased Transit Curves

TCE 008308722-01 $P=524.595512 Days T_0=403.613951 (BKJD)$



Alt. Detrend Quarter-Phased Transit Curves

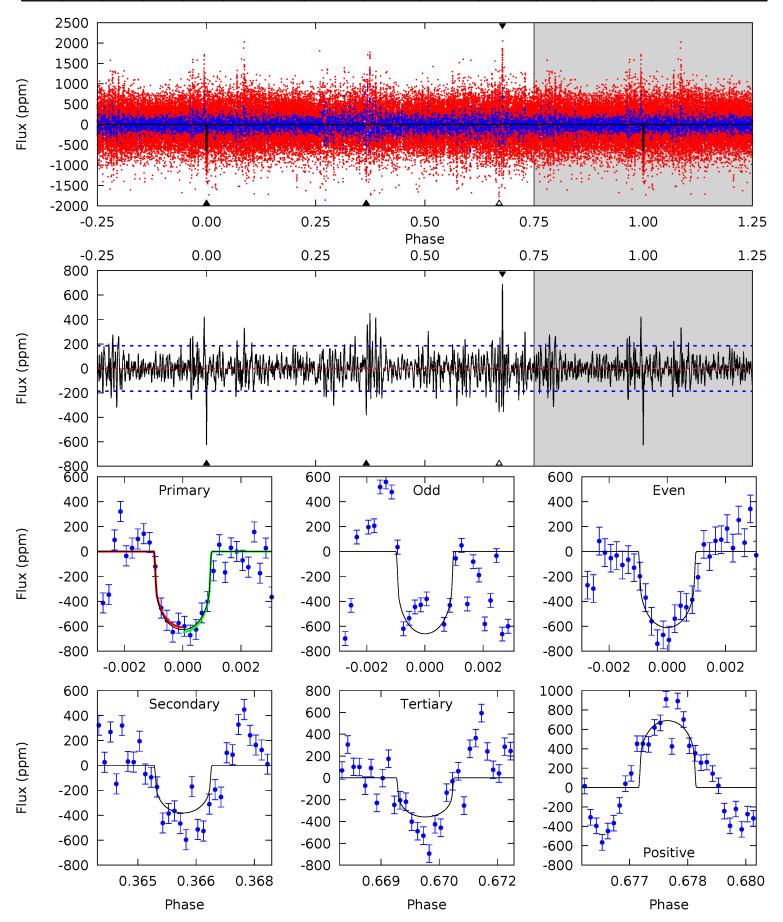
TCE 008308722-01 $P=524.638464 \text{ Days } T_0=403.552865 \text{ (BKJD)}$



DV Model-Shift Uniqueness Test

008308722-01, P = 524.595512 Days, E = 403.613951 Days

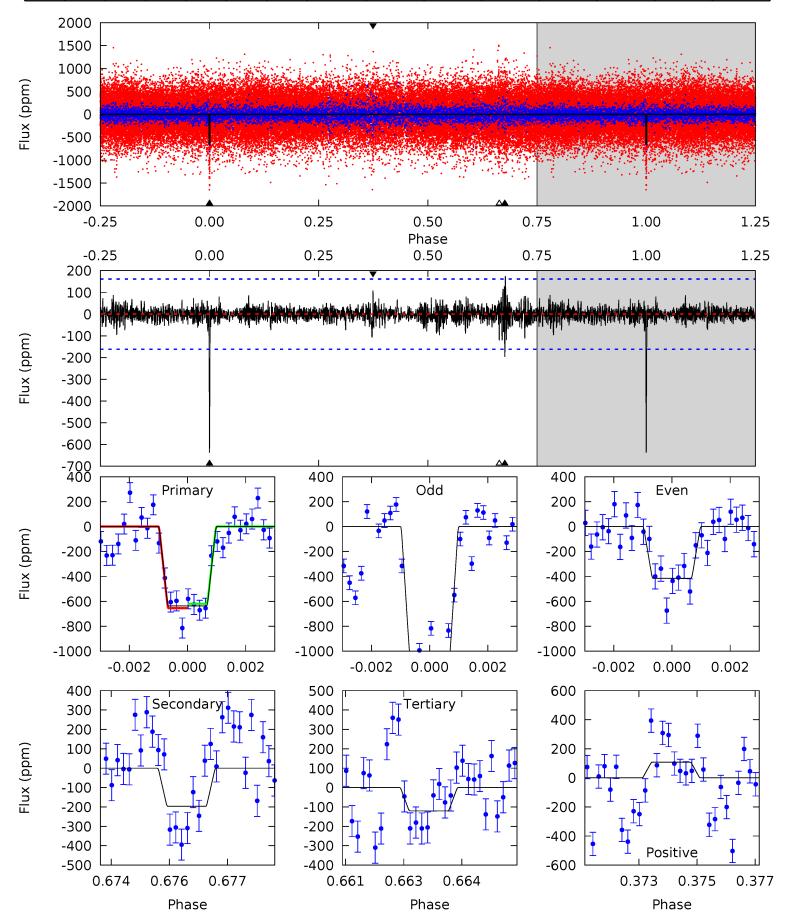
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.2	11.0	10.4	20.0	5.37	3.17	2.77	7.79	-1.81	0.67	-8.93	0.70	0.94	0.52	0.55



Alt Model-Shift Uniqueness Test

008308722-01, P = 524.638464 Days, E = 403.552865 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	6.54	4.00	3.58	5.37	3.15	0.86	17.2	17.6	2.54	2.95	10.4	1.27	0.21	0.58



Stellar Parameters For KIC 008308722

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(\mathrm{M}_{\odot})$	$p_{\star} (\text{g} \cdot \text{cm}^{-3})$	
	5262^{+174}_{-158}	$4.361^{+0.167}_{-0.222}$	$0.400^{+0.100}_{-0.250}$	$1.038^{+0.305}_{-0.178}$	$0.904^{+0.075}_{-0.061}$	$1.137^{+0.918}_{-0.614}$	
	+3%/-3%	+4%/-5%	+25%/-62%	+29%/-17%	+8%/-7%	+81%/-54%	
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 008308722-01 / KOI

Detrend	Depth (ppm)	$R_p(R_{\bigoplus})$	$T_{max}(K)$	T_{obs} (K)	A_{obs}
DV	-381±35	$2.55^{+1.22}_{-1.19}$	300^{+25}_{-19}	4999^{+1610}_{-695}	$49722^{+121469}_{-27566}$
Alt.	-197±30	$2.82^{+1.35}_{-1.20}$	300^{+24}_{-21}	4185^{+1052}_{-505}	19947^{+41721}_{-10572}

 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 $A_{obs} \gg 1.0$

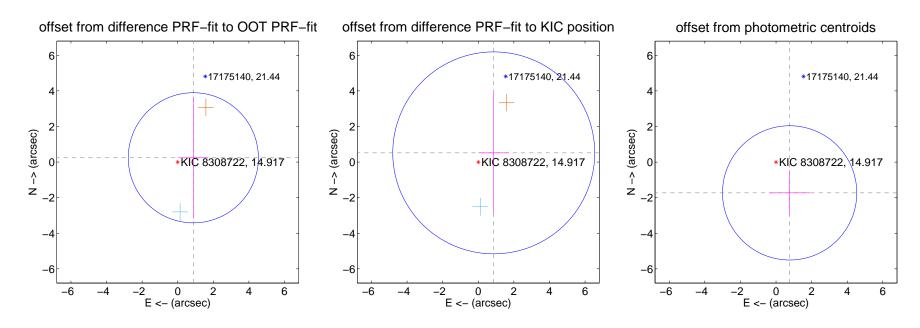
DV Centroid Data

Supplemental centroid analysis for 008308722-01. Kepler magnitude: 14.92. Transit SNR 7.89

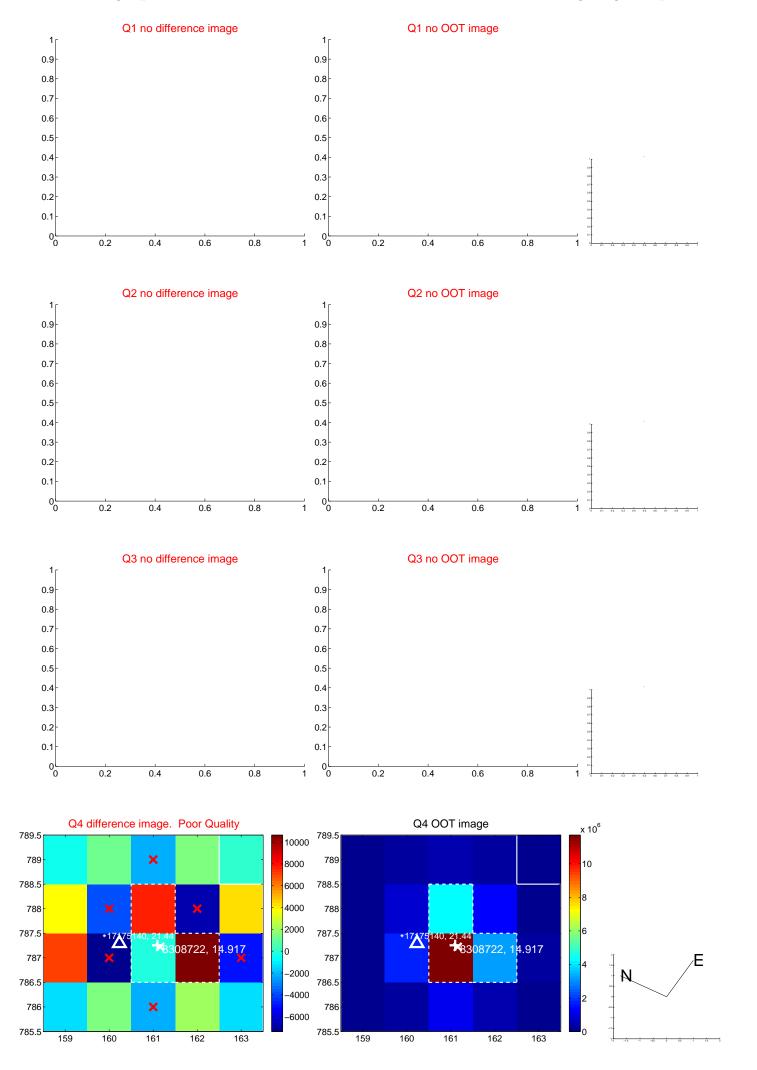
There are 1 quarters with good PRF difference image offsets

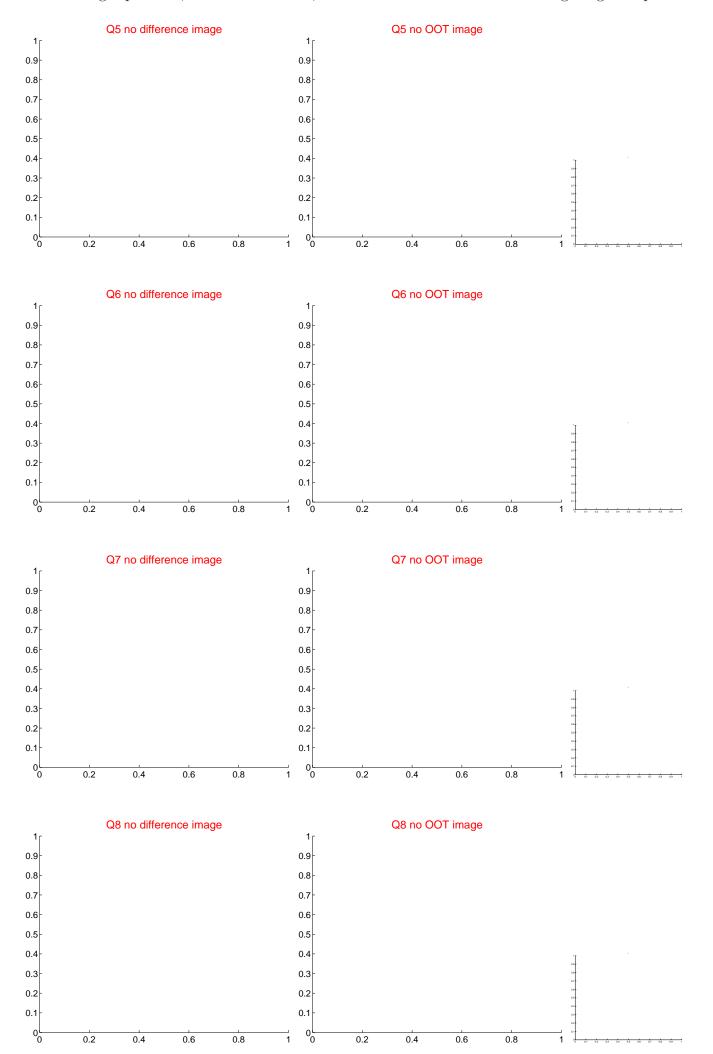
The direct PRF centroid is offset from the target star catalog position by about 0.29 arcsec

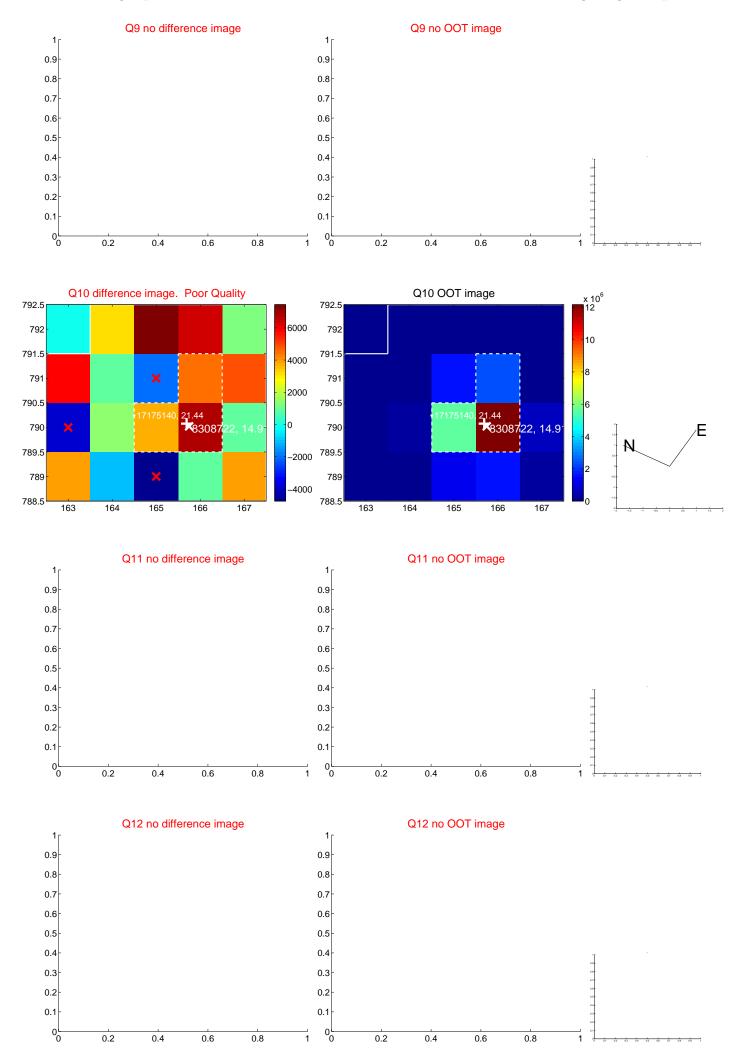
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.909 ± 1.219	0.75	-0.877 ± 0.849	0.239 ± 3.427
PRF-fit source offset from KIC position	1.011 ± 1.891	0.53	-0.870 ± 0.867	0.516 ± 3.410
photometric centroid source offset	1.89 ± 1.26	1.50	-0.77 ± 1.15	-1.73 ± 1.28

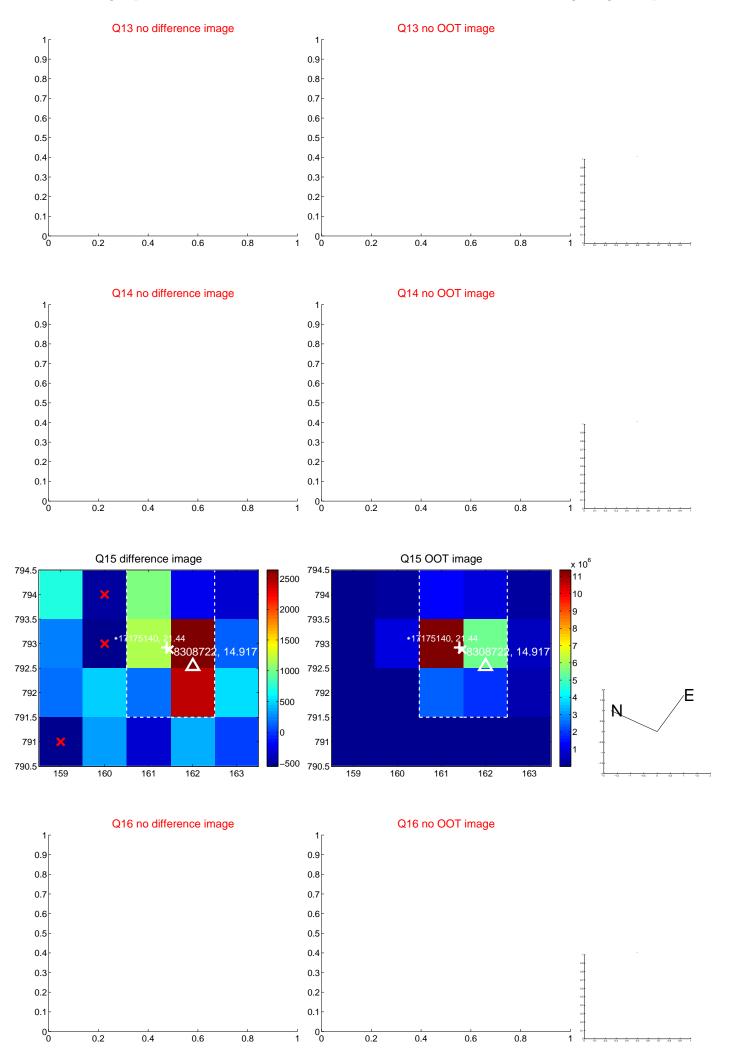


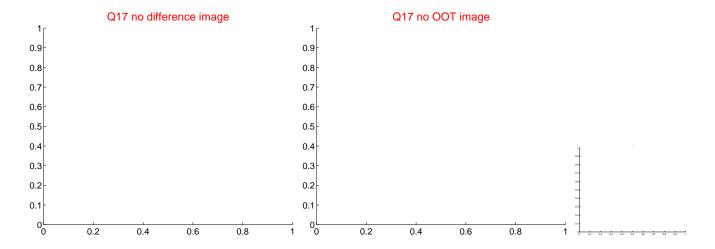
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

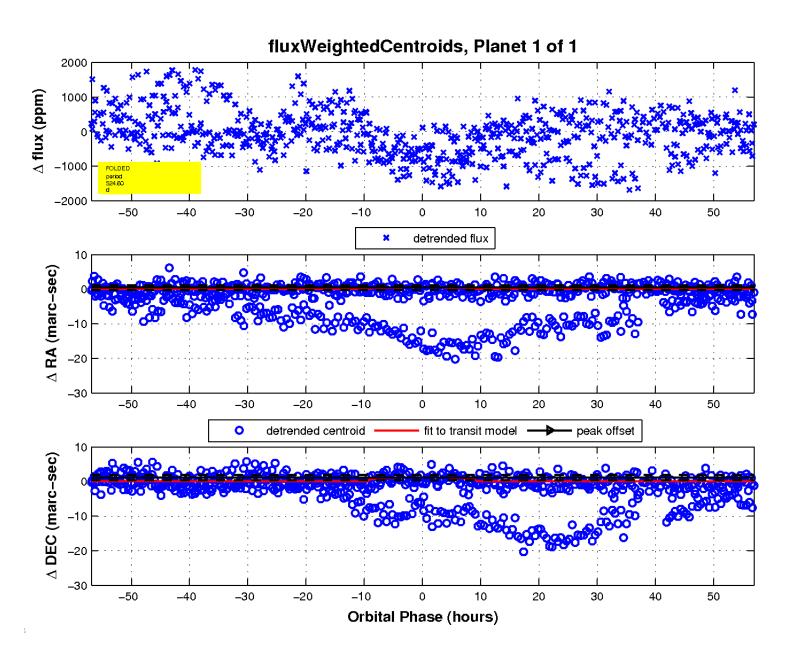












${\bf UKIRT\ Image}$

