WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

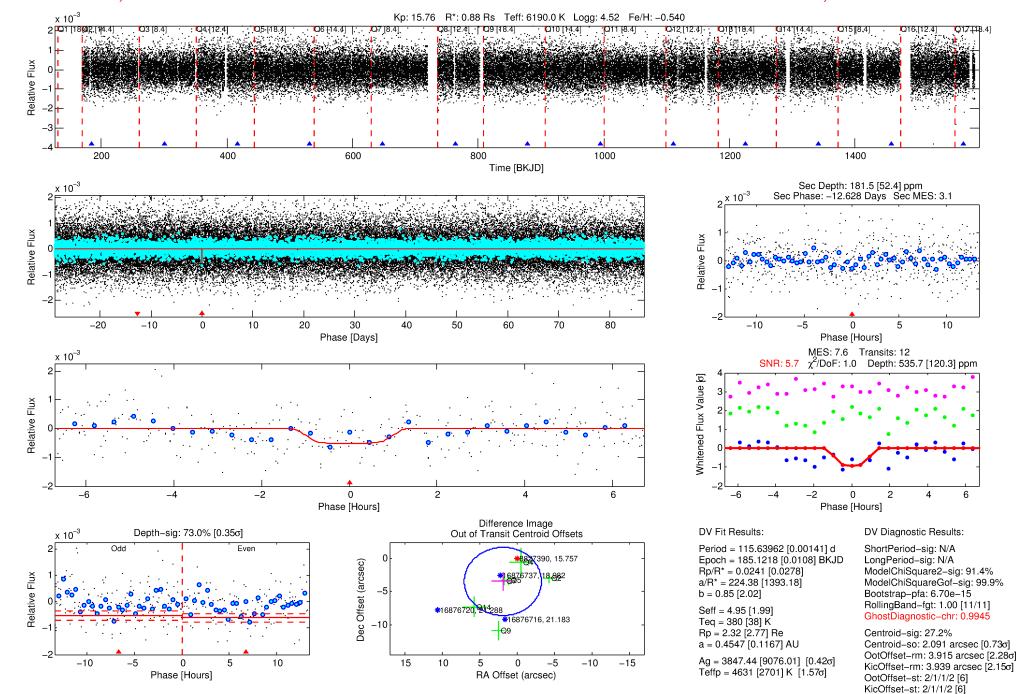
DV One-Page Summary

KIC: 8827390 Candidate: 1 of 1 Period: 115.640 d

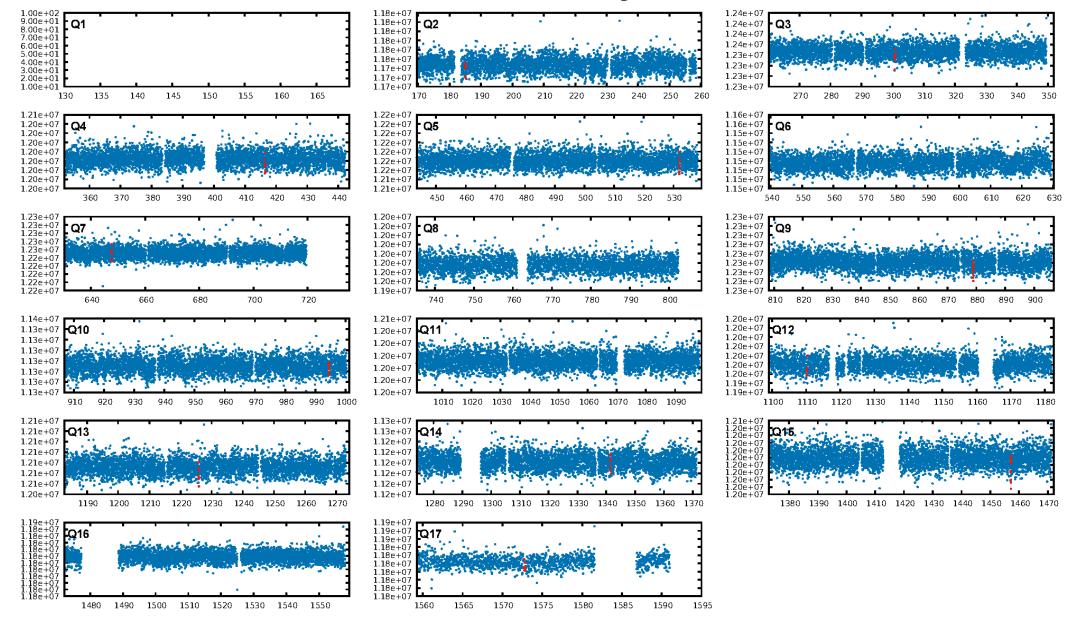
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

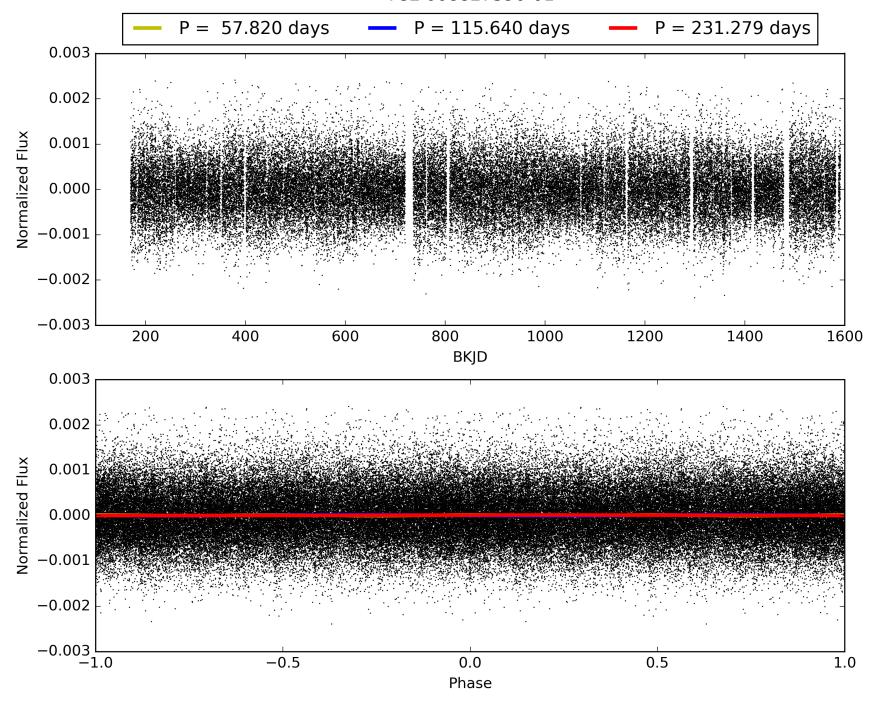
DiffImageQuality-fgm: 0.17 [1/6]

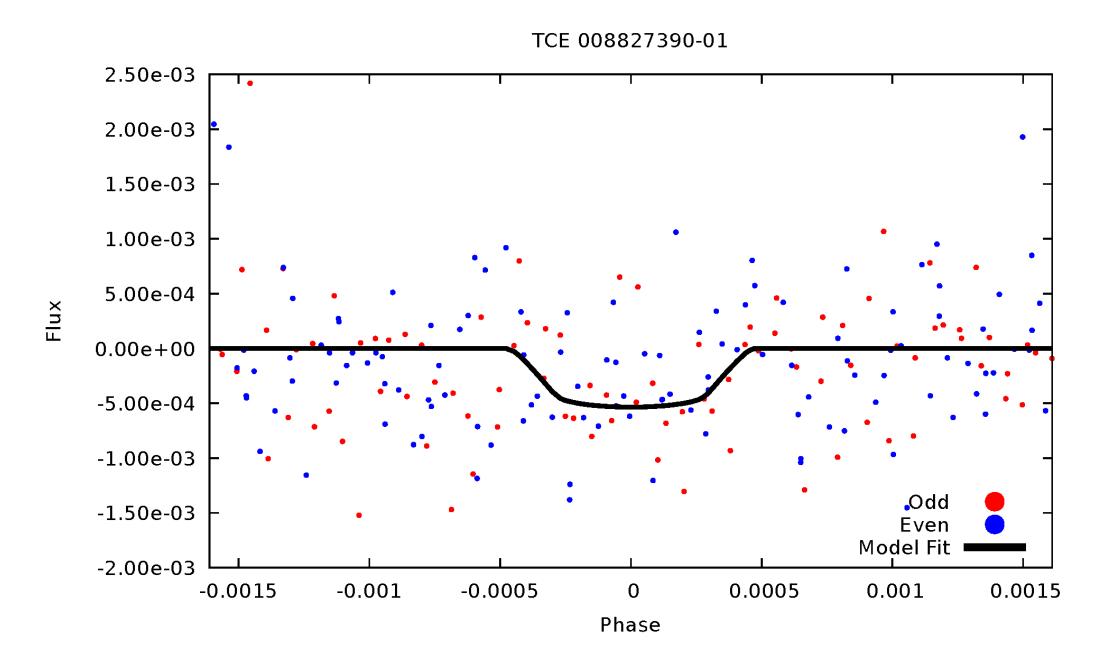
DiffImageOverlap-fno: 1.00 [11/11]



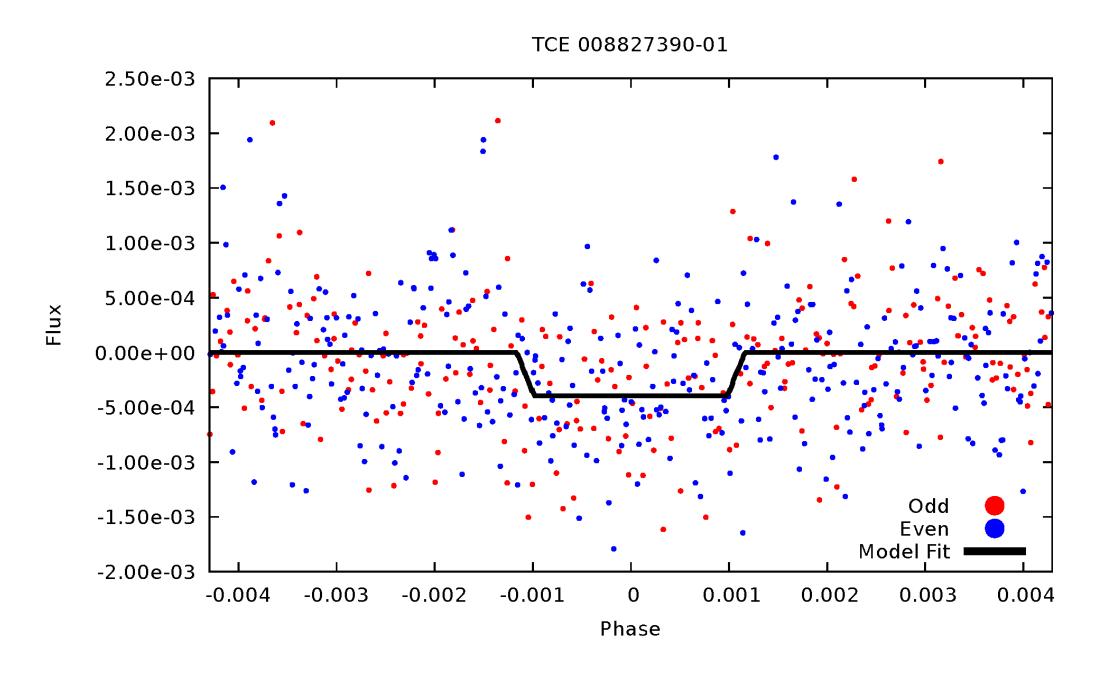
TCE 008827390-01, PDC Light Curves



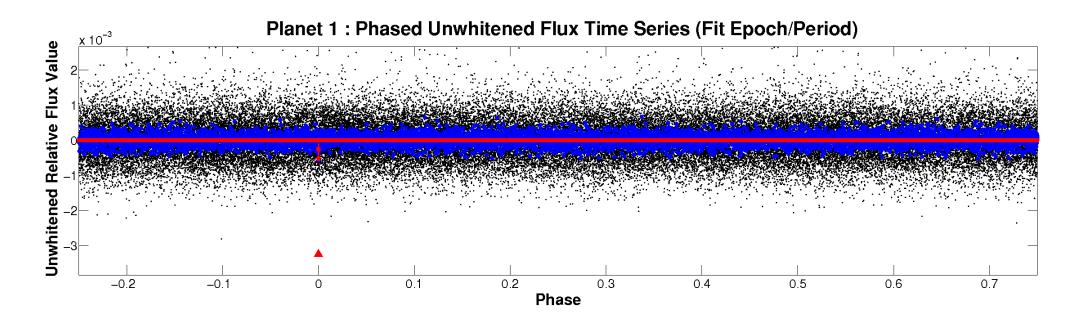




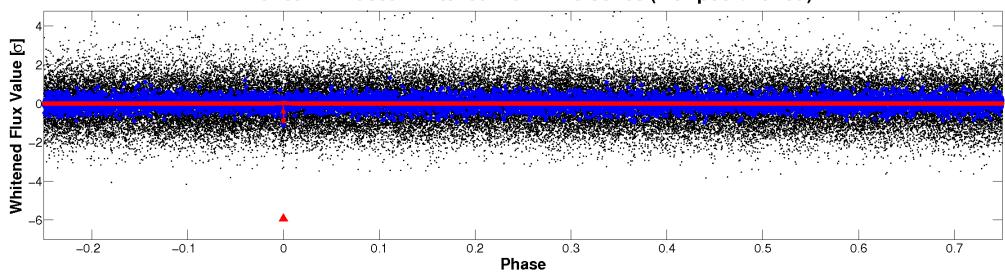
ALT Odd/Even



Non-Whitened Vs. Whitened Light Curve

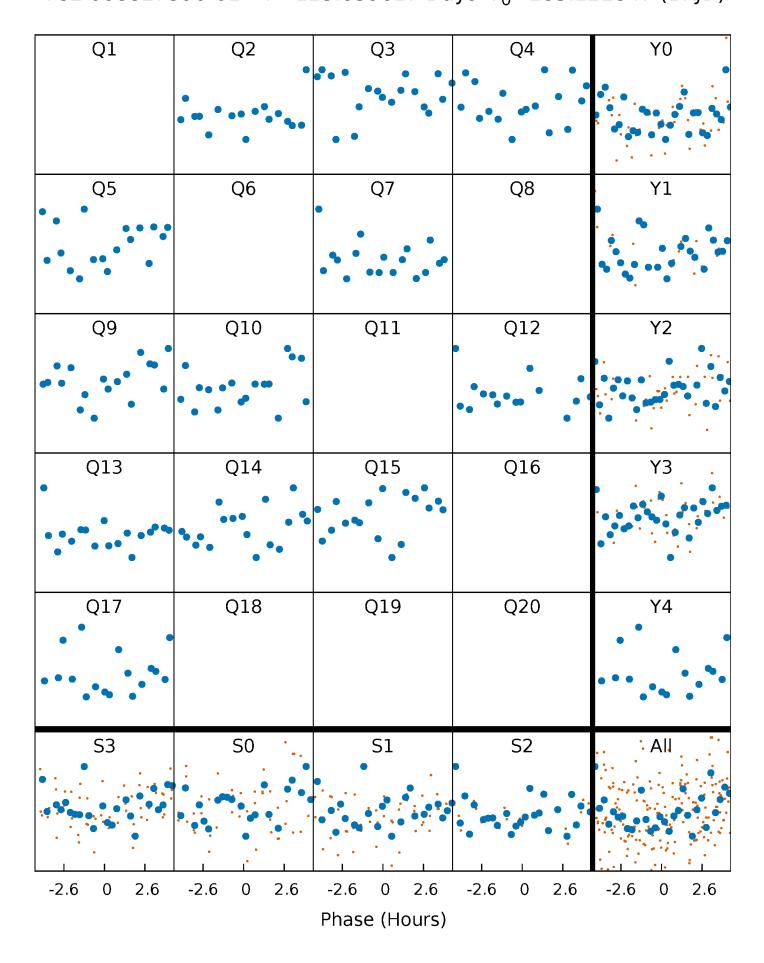






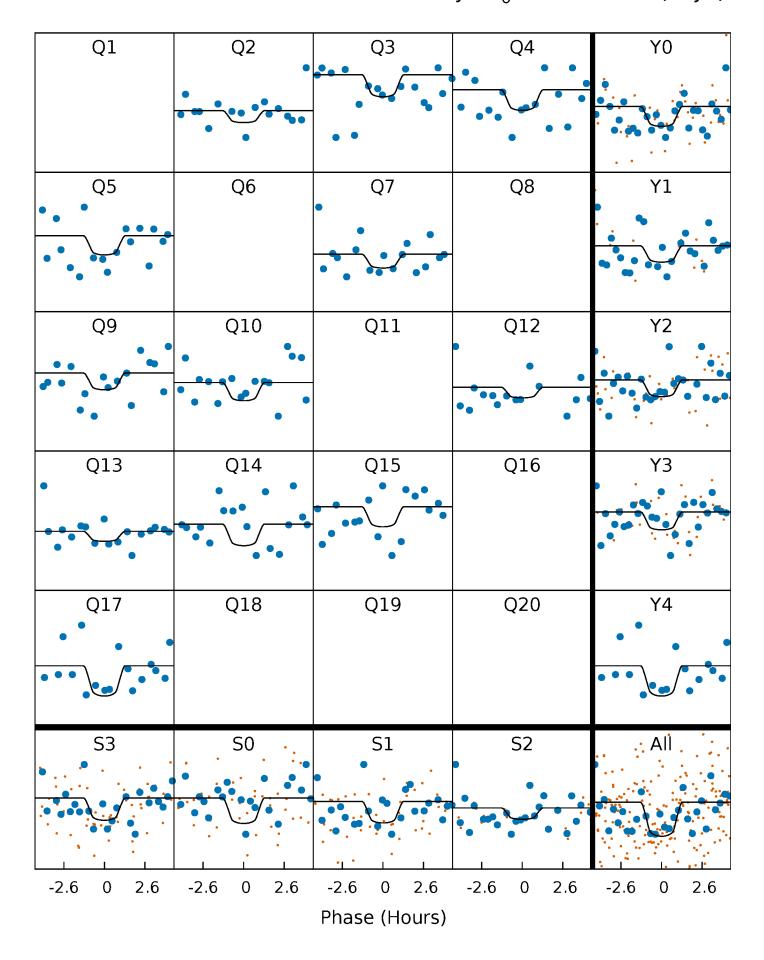
PDC Quarter-Phased Transit Curves

TCE 008827390-01 P=115.639617 Days T_0 =185.121847 (BKJD)



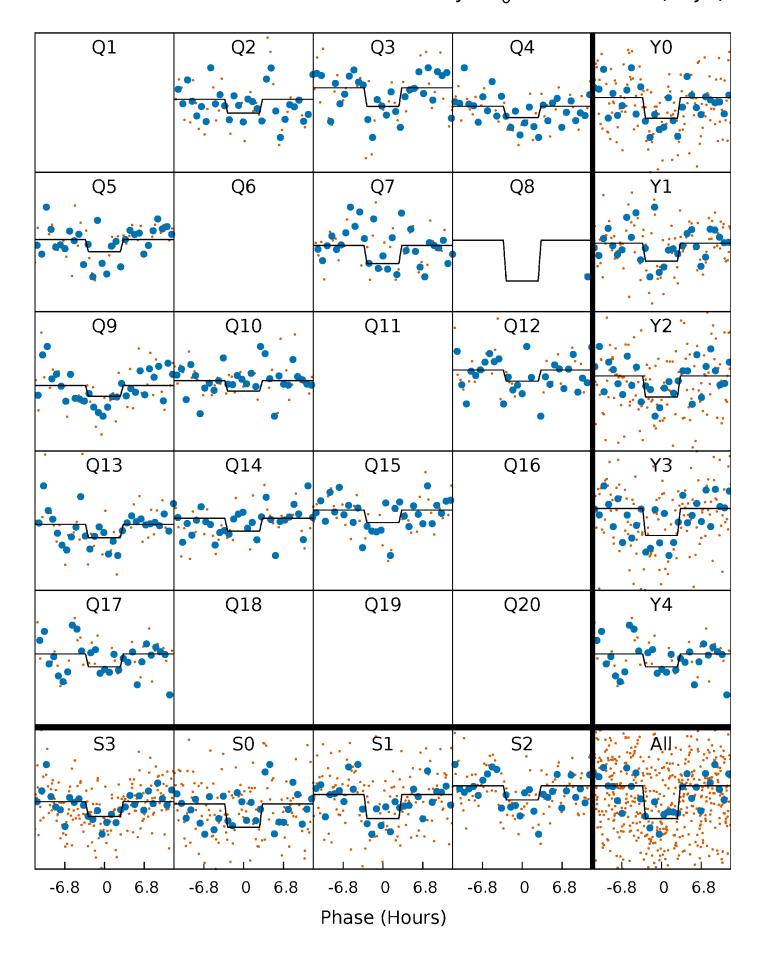
DV Quarter-Phased Transit Curves

TCE 008827390-01 $P=115.639617 Days T_0=185.121847 (BKJD)$



Alt. Detrend Quarter-Phased Transit Curves

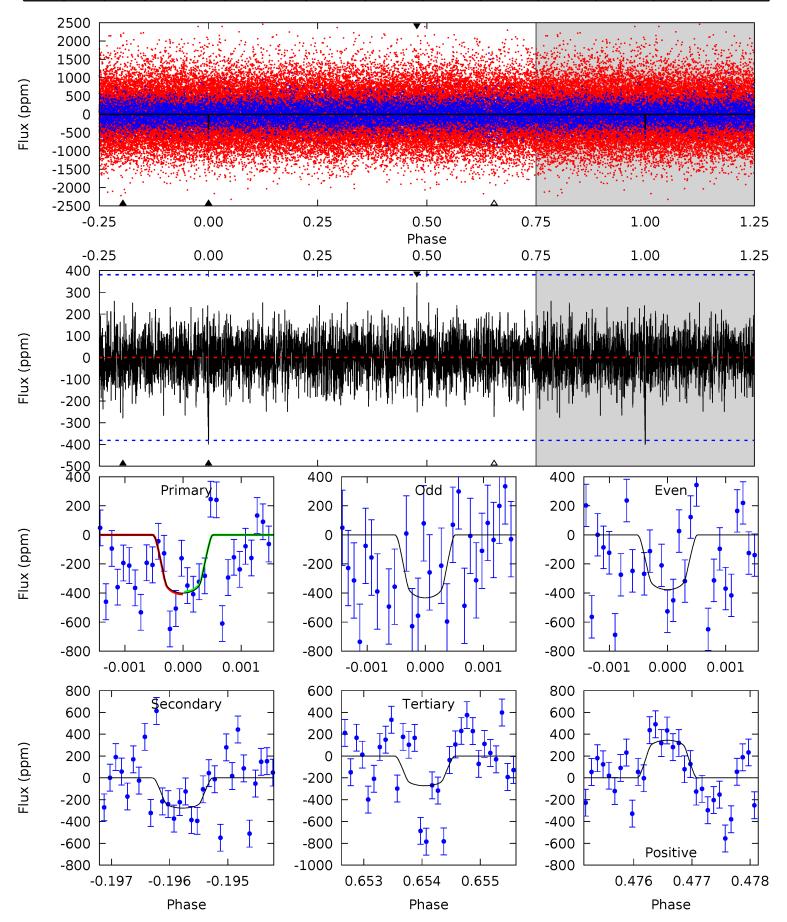
TCE 008827390-01 P=115.638102 Days T_0 =185.123963 (BKJD)



DV Model-Shift Uniqueness Test

008827390-01, P = 115.639617 Days, E = 69.482230 Days

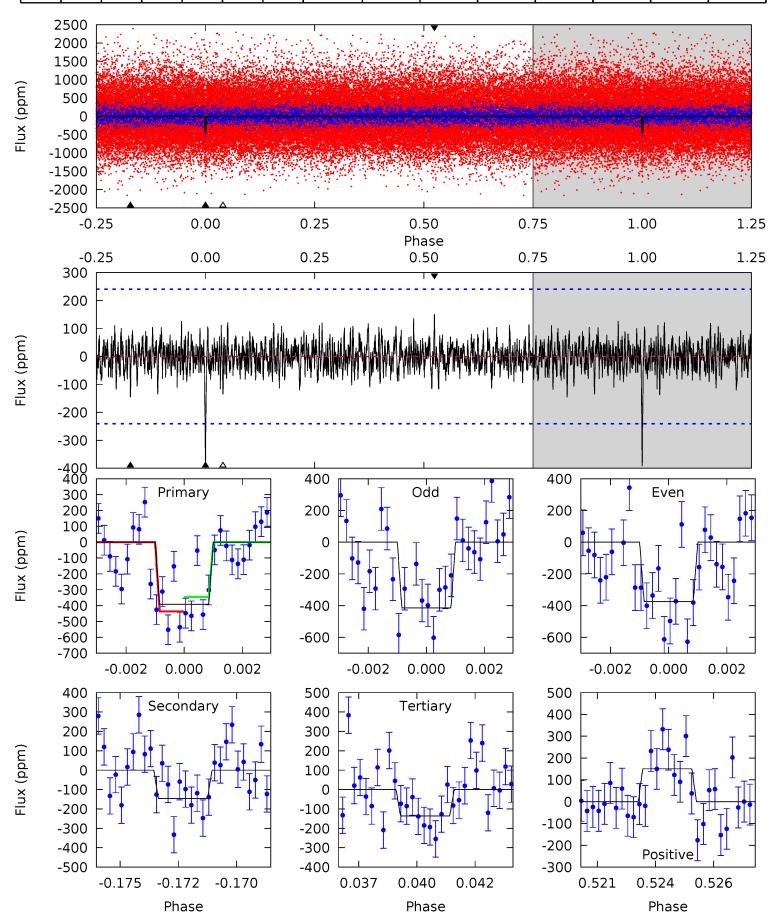
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.74	3.97	3.90	4.95	5.46	3.31	1.18	1.84	0.80	0.07	-0.98	0.40	0.95	0.46	0.12



Alt Model-Shift Uniqueness Test

008827390-01, P = 115.638102 Days, E = 69.485861 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.61	3.21	2.99	3.31	5.30	3.04	0.90	5.63	5.30	0.23	-0.10	0.44	0.82	0.28	1.01



Stellar Parameters For KIC 008827390

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R \left(\mathbf{R}_{\odot} \right)$	$M(\mathrm{M}_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	6190^{+174}_{-217}	$4.519^{+0.052}_{-0.208}$	$-0.540^{+0.300}_{-0.300}$	$0.882^{+0.266}_{-0.089}$	$0.938^{+0.115}_{-0.115}$	$1.924^{+0.513}_{-0.978}$
	+3%/-4%	+1%/-5%	+56%/-56%	+30%/-10%	+12%/-12%	+27%/-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 008827390-01 / KOI

Detrend	Depth (ppm)	$R_p(R_{\bigoplus})$	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-277 ± 70	$3.10^{+2.62}_{-1.96}$	542^{+35}_{-24}	4700^{+2930}_{-988}	3136^{+20370}_{-2255}
Alt.	-146±45	$2.78^{+2.68}_{-1.89}$	542^{+40}_{-28}	4273^{+2874}_{-858}	2010_{-1496}^{+17338}

 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 $A_{obs} \gg 1.0$

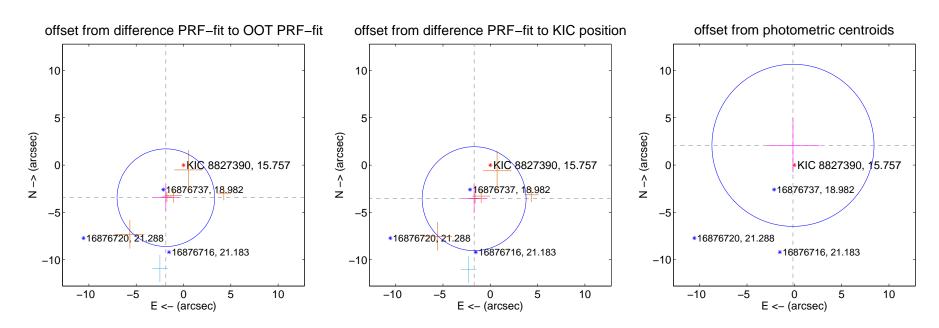
DV Centroid Data

Supplemental centroid analysis for 008827390-01. Kepler magnitude: 15.76. Transit SNR 5.70

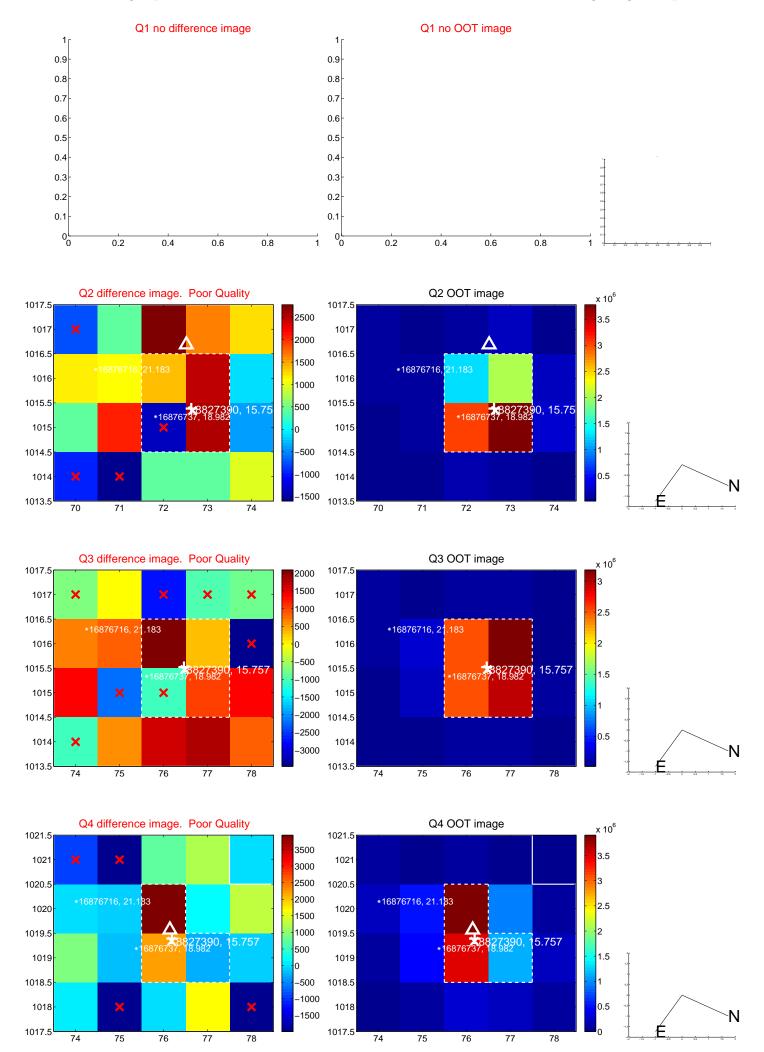
There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

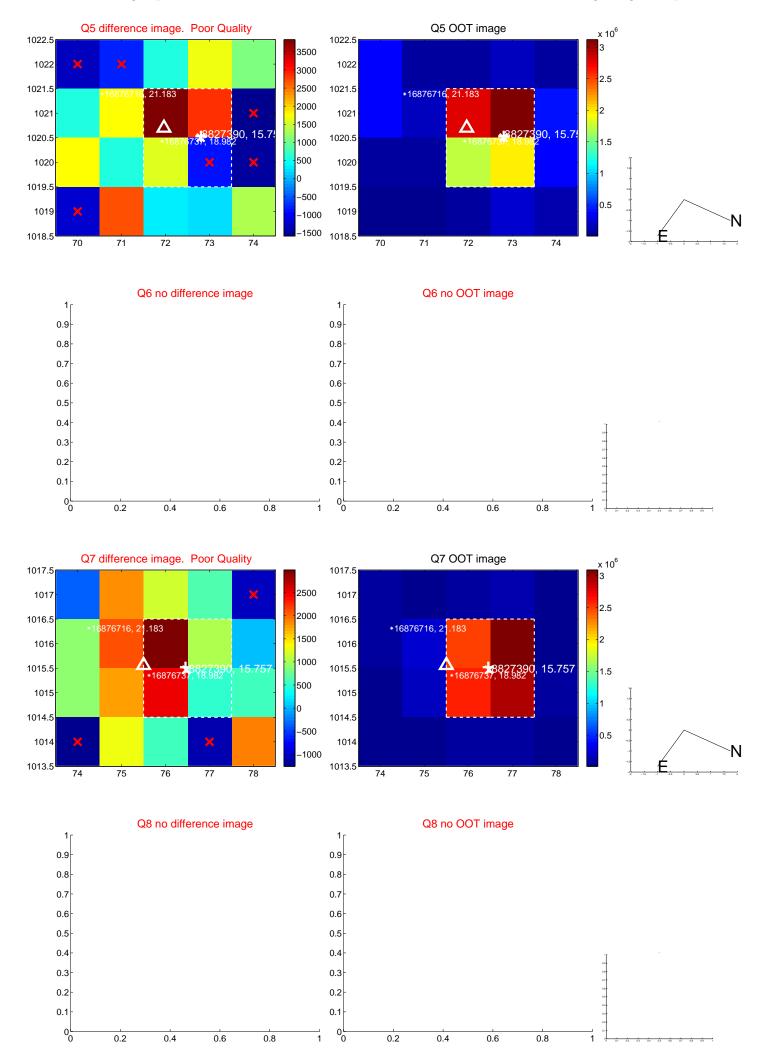
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.915 ± 1.719	2.28	1.864 ± 1.387	-3.443 ± 1.405
PRF-fit source offset from KIC position	3.939 ± 1.830	2.15	1.709 ± 1.304	-3.549 ± 1.515
photometric centroid source offset	2.09 ± 2.85	0.73	0.15 ± 2.82	2.09 ± 2.85



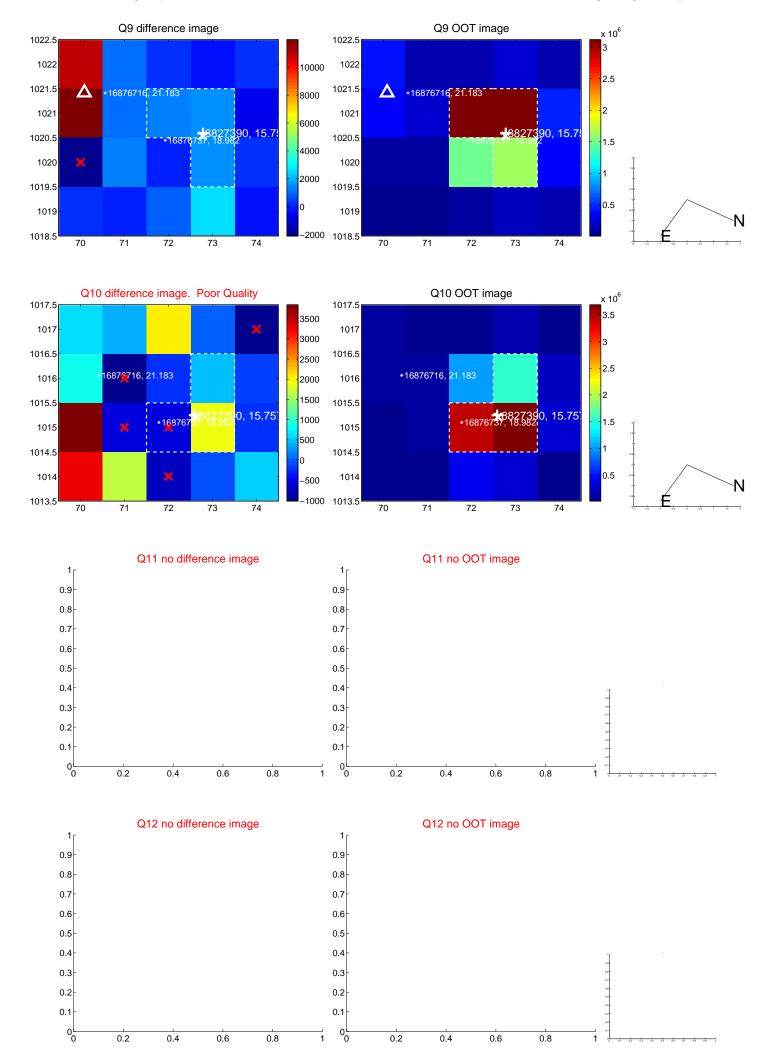
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



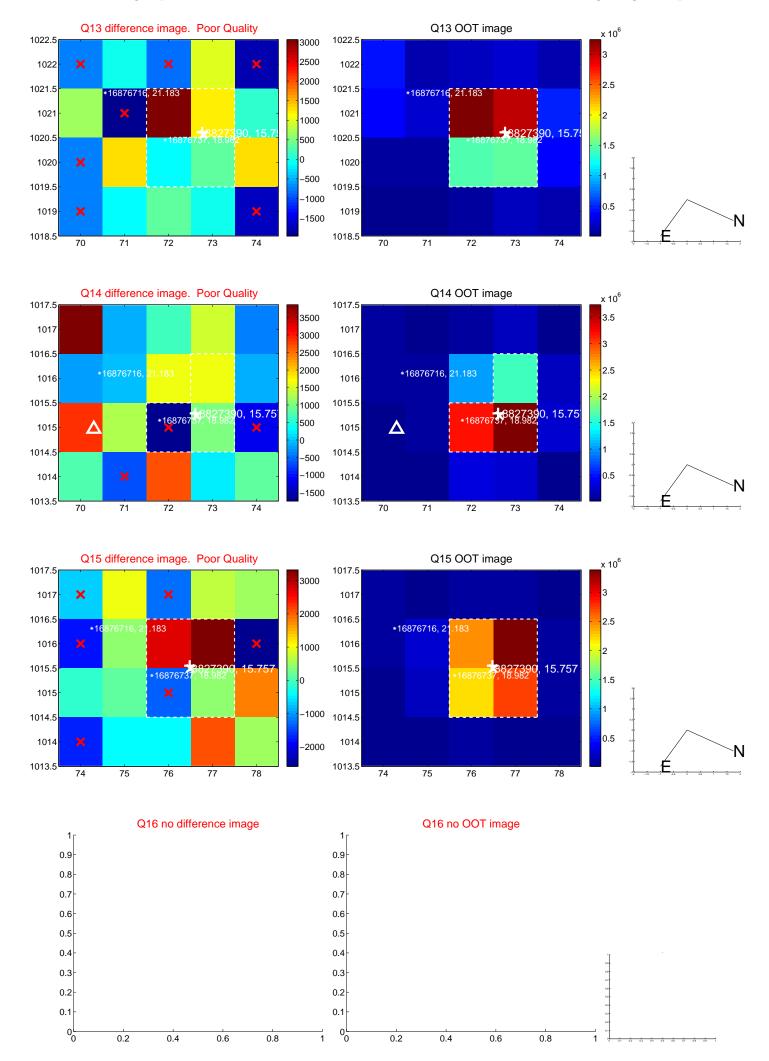
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



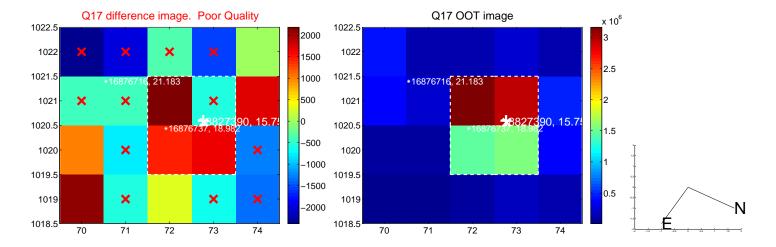
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

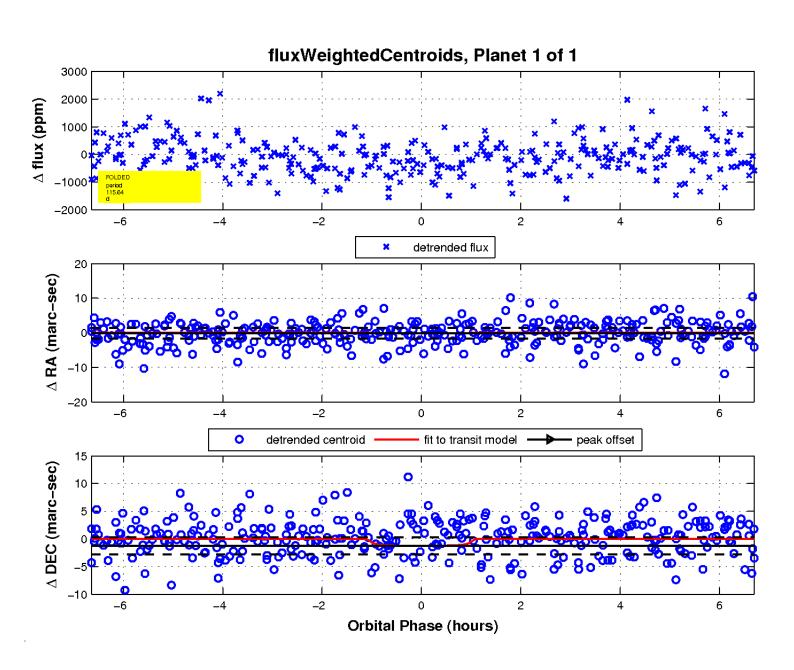


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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





UKIRT Image

