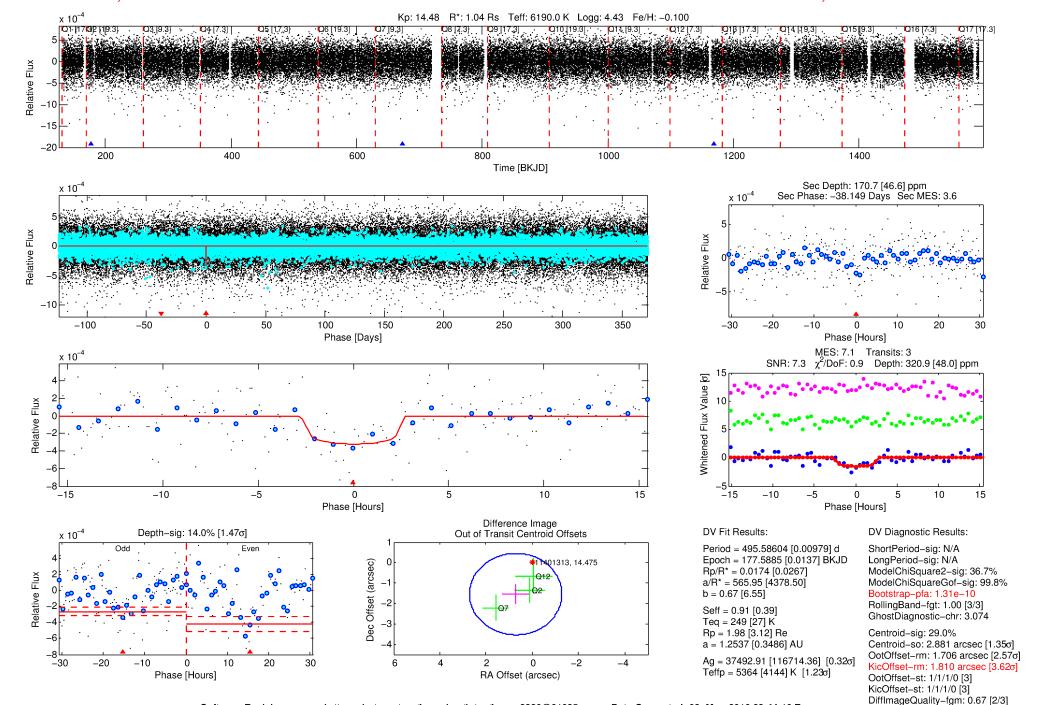
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

DV One-Page Summary

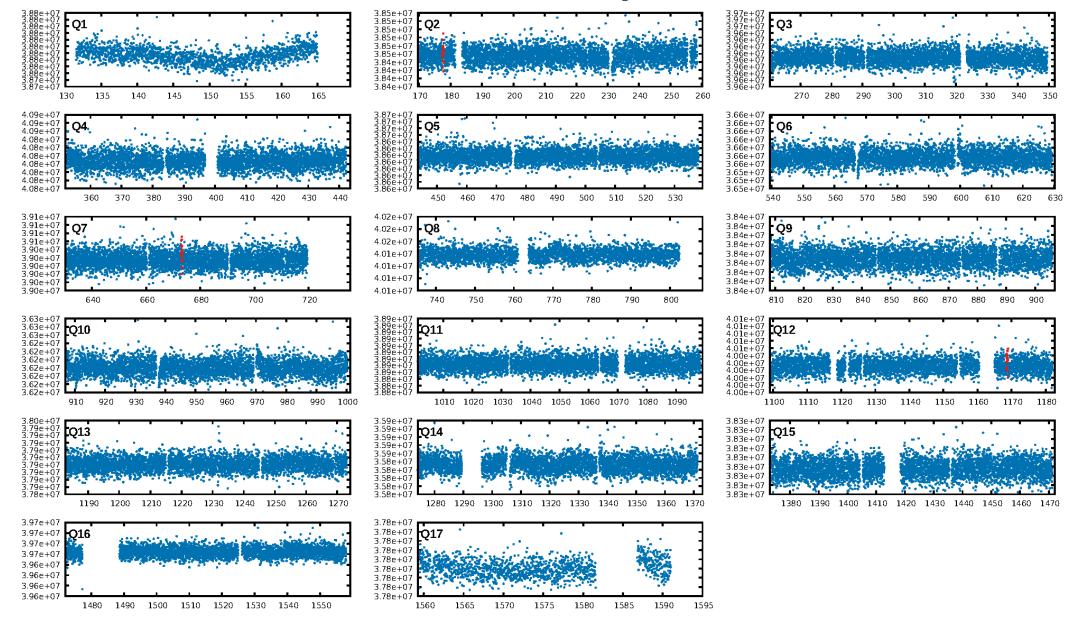
KIC: 11401313 Candidate: 1 of 1 Period: 495.586 d

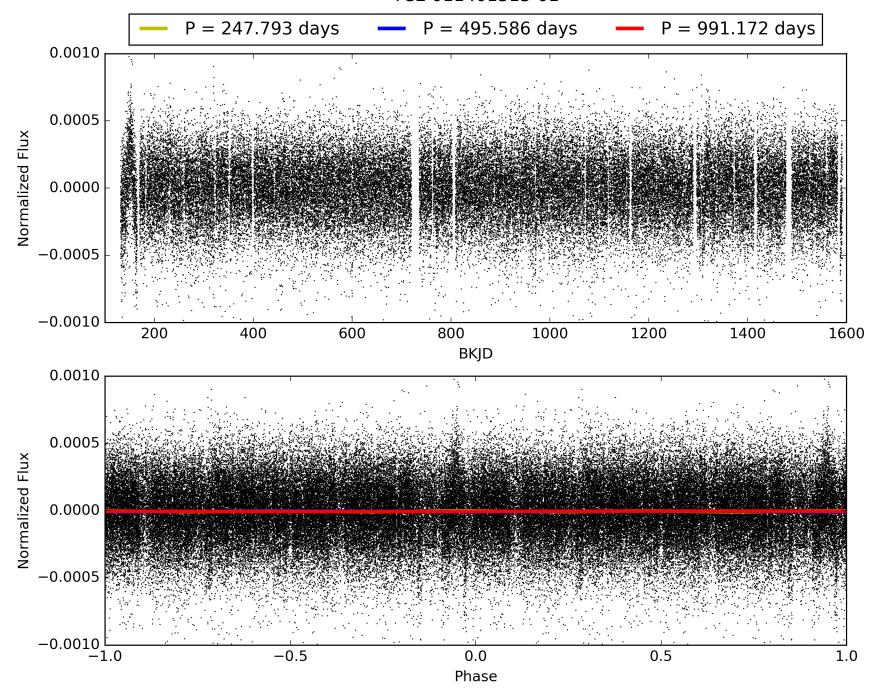
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

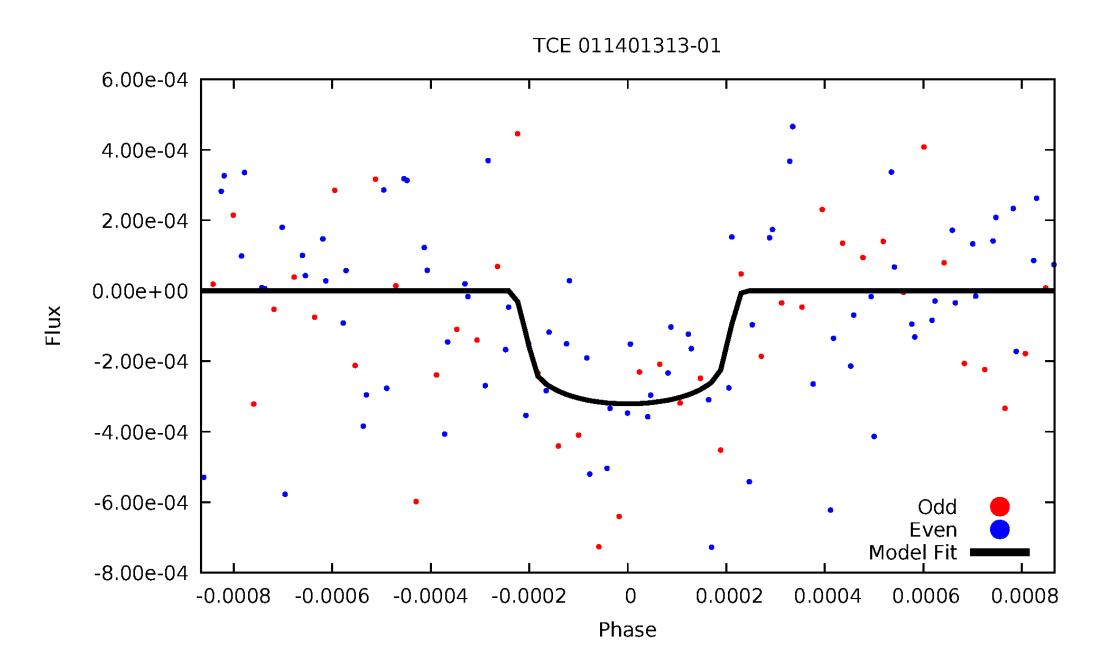
DiffImageOverlap-fno: 1.00 [3/3]



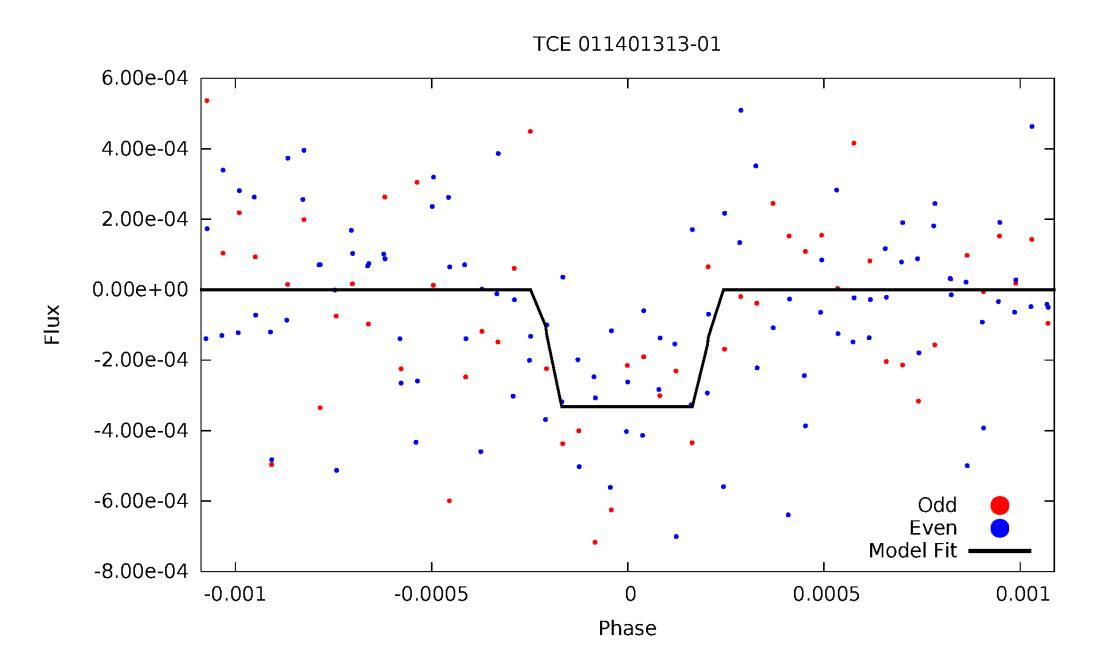
TCE 011401313-01, PDC Light Curves



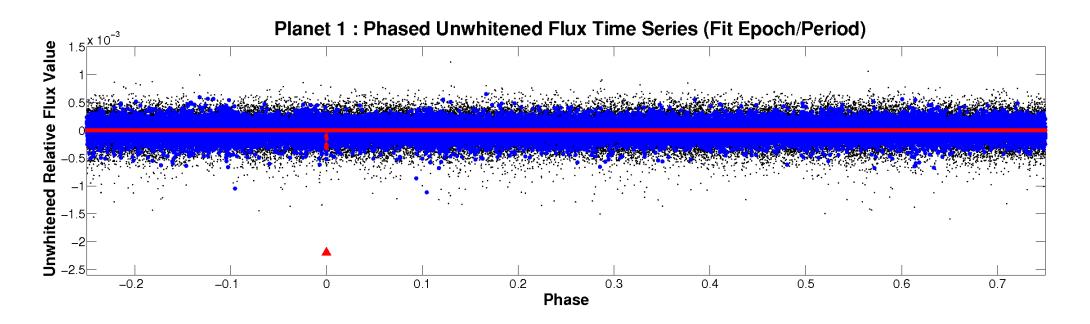


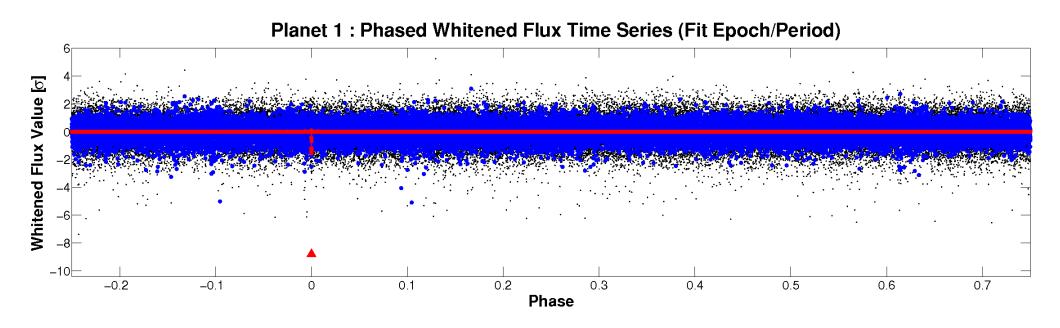


ALT Odd/Even



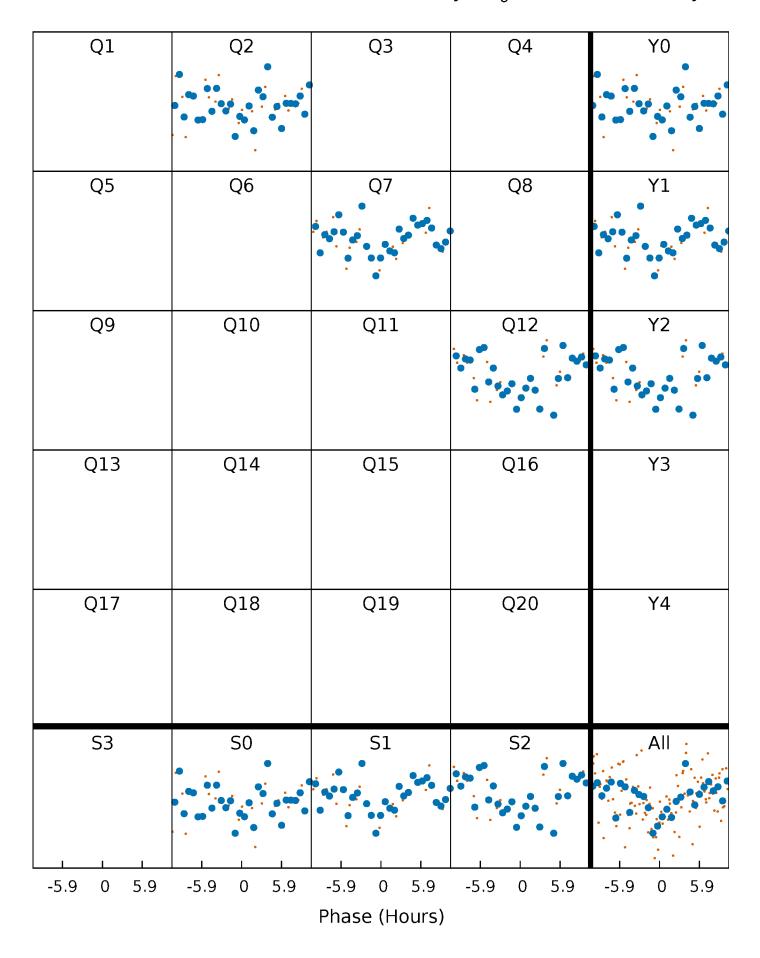
Non-Whitened Vs. Whitened Light Curve





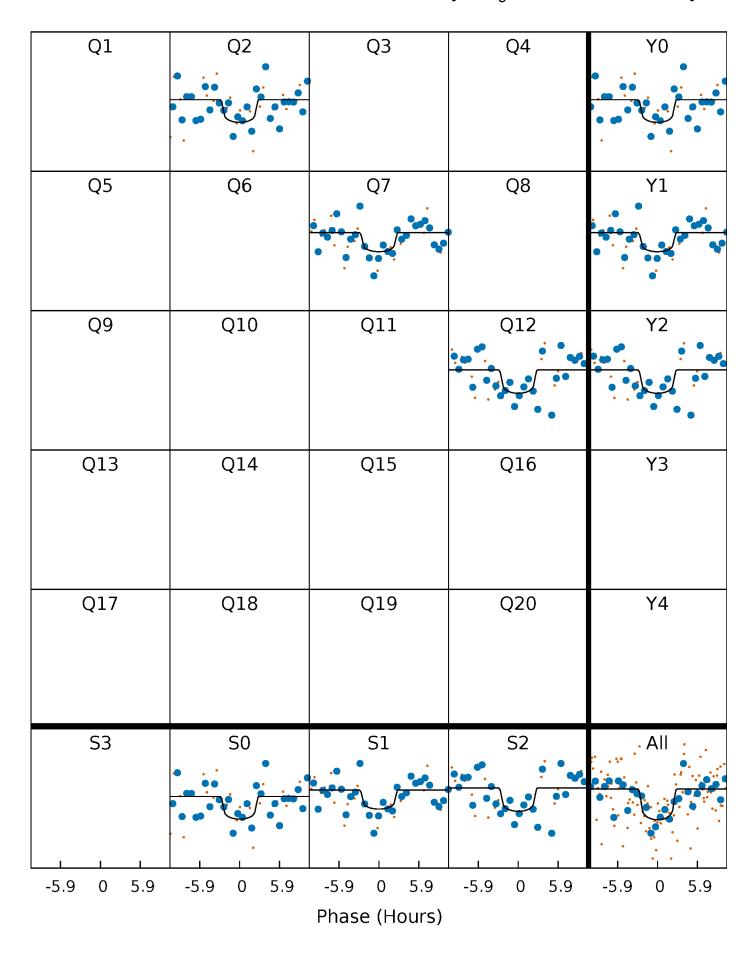
PDC Quarter-Phased Transit Curves

TCE 011401313-01 $P=495.586044 \text{ Days } T_0=177.588505 \text{ (BKJD)}$



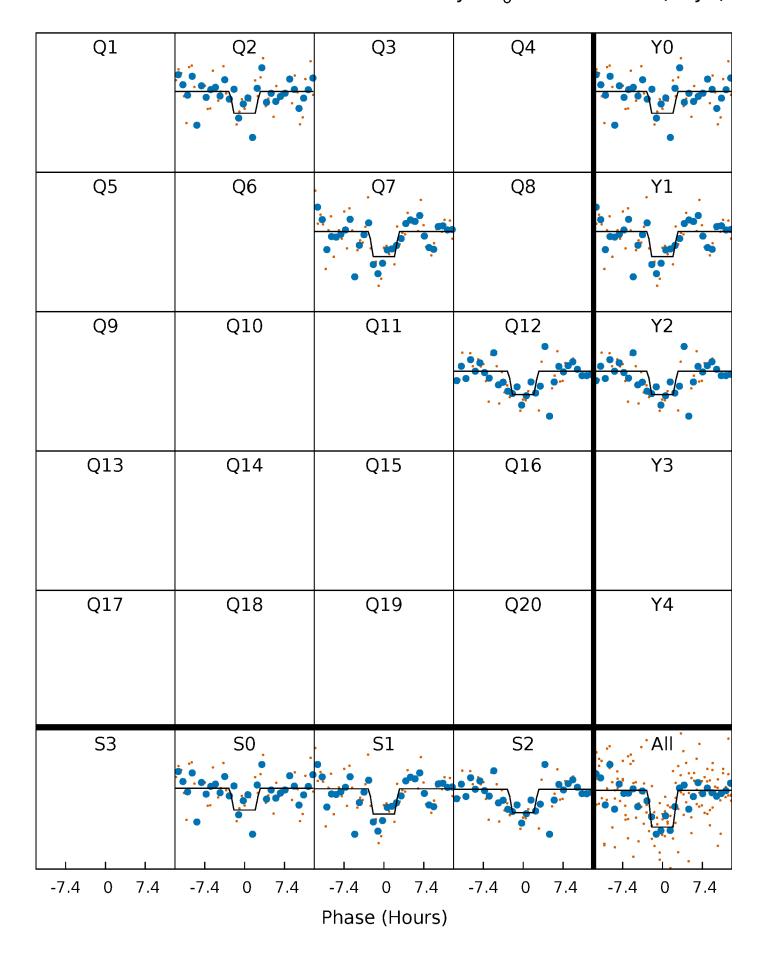
DV Quarter-Phased Transit Curves

TCE 011401313-01 $P=495.586044 \text{ Days } T_0=177.588505 \text{ (BKJD)}$



Alt. Detrend Quarter-Phased Transit Curves

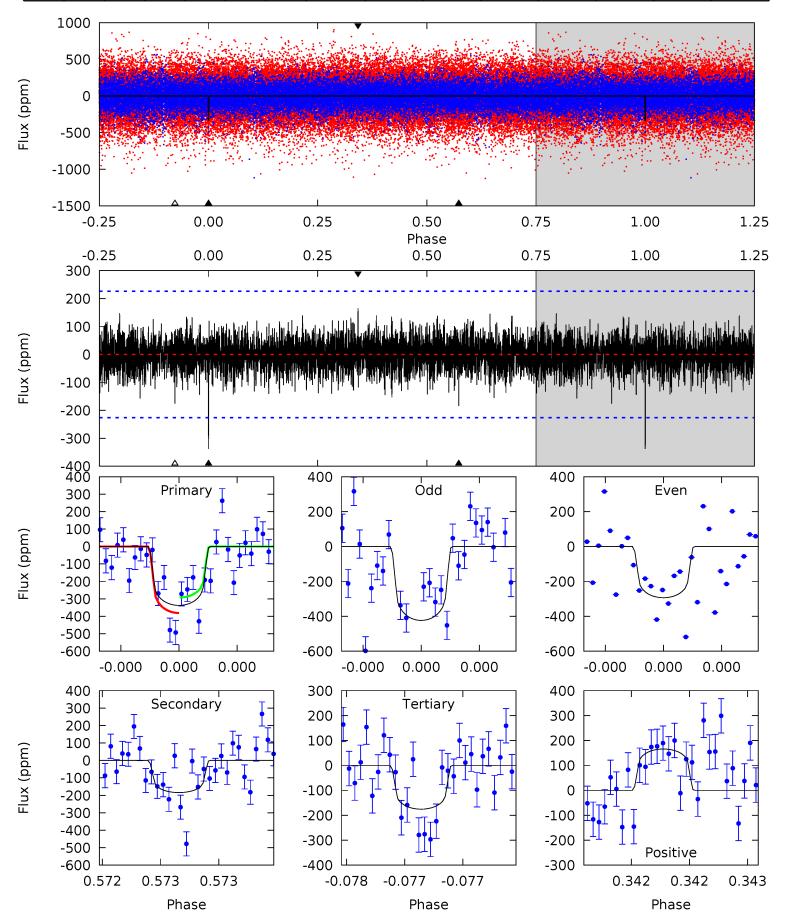
TCE 011401313-01 $P=495.575131 Days T_0=177.611704 (BKJD)$



DV Model-Shift Uniqueness Test

011401313-01, P = 495.586044 Days, E = 177.588505 Days

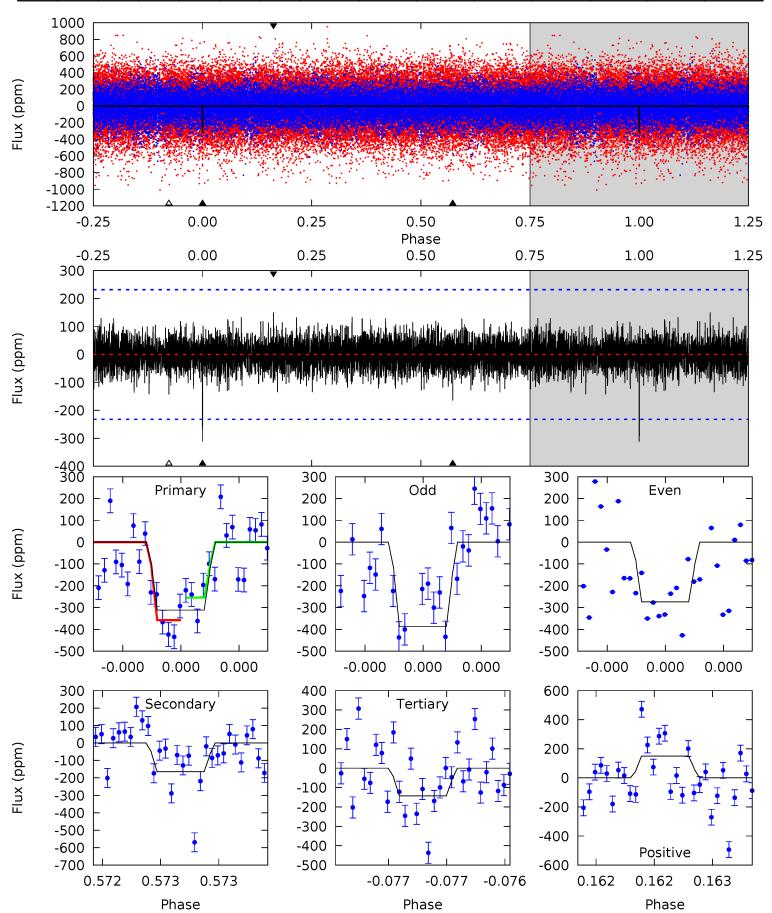
Pr	Sed	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.3	4 4.5	4.34	4.10	5.59	3.51	1.11	4.00	4.25	0.21	0.46	1.53	1.06	0.33	1.10



Alt Model-Shift Uniqueness Test

011401313-01, P = 495.575131 Days, E = 177.611704 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.5	3.98	3.45	3.63	5.61	3.53	0.95	4.07	3.90	0.53	0.35	1.30	0.92	0.33	1.25



Stellar Parameters For KIC 011401313

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(\mathrm{M}_{\bigodot})$	$p_{\star} (\text{g} \cdot \text{cm}^{-3})$
	6190^{+166}_{-222}	$4.429^{+0.072}_{-0.217}$	$-0.100^{+0.250}_{-0.300}$	$1.045^{+0.349}_{-0.116}$	$1.064^{+0.168}_{-0.137}$	$1.313^{+0.402}_{-0.726}$
	+3%/-4%	+2%/-5%	+250%/-300%	+33%/-11%	+16%/-13%	+31%/-55%
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 011401313-01 / KOI

Detrend	Depth (ppm)	$R_p(R_{\bigoplus})$	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-184 ± 40	$3.19^{+2.96}_{-2.12}$	354^{+27}_{-18}	4554^{+3316}_{-959}	$14370^{+123861}_{-10348}$
Alt.	-165±41	$3.01^{+3.02}_{-1.99}$	355^{+27}_{-19}	4586^{+3069}_{-1030}	$15494^{+119192}_{-11676}$

 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 $A_{obs} \gg 1.0$

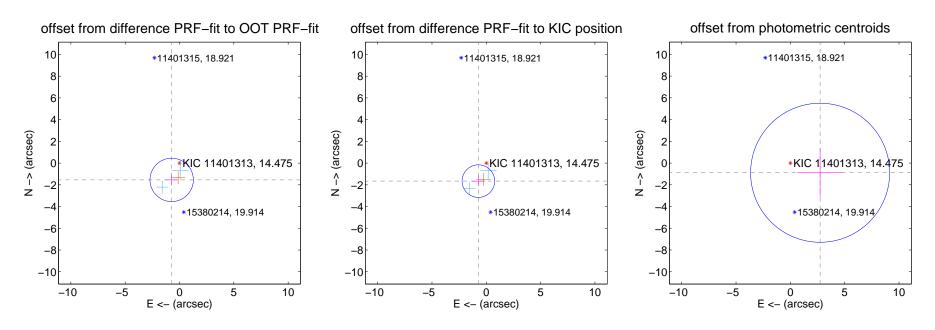
DV Centroid Data

Supplemental centroid analysis for 011401313-01. Kepler magnitude: 14.47. Transit SNR 7.30

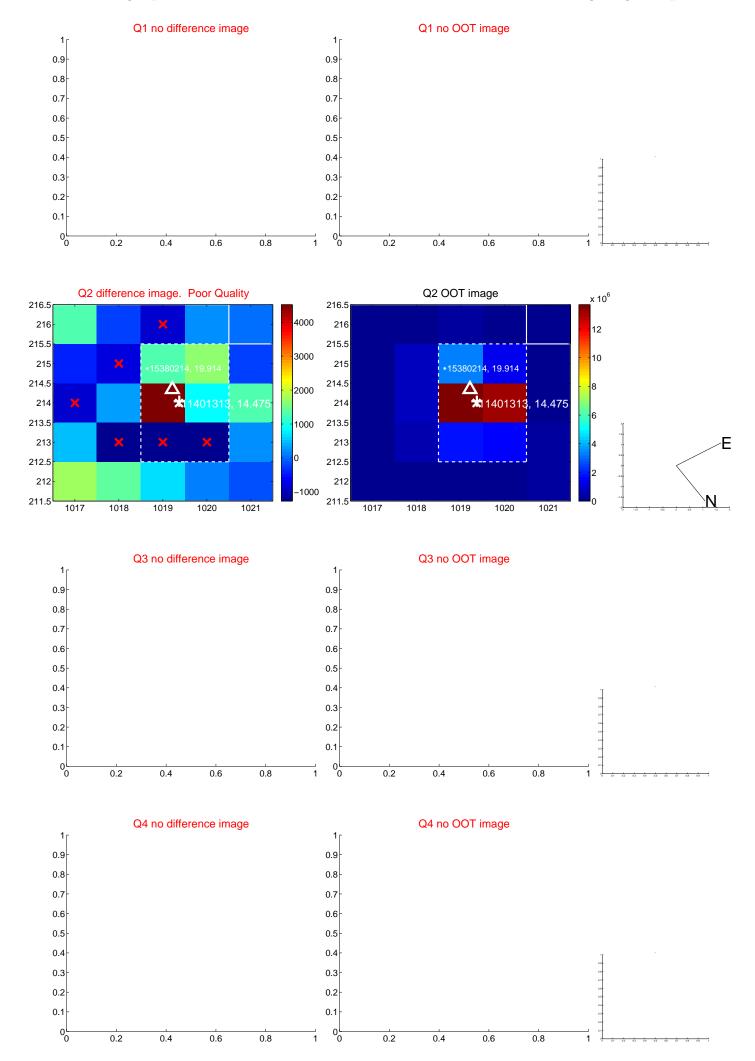
There are 2 quarters with good PRF difference image offsets

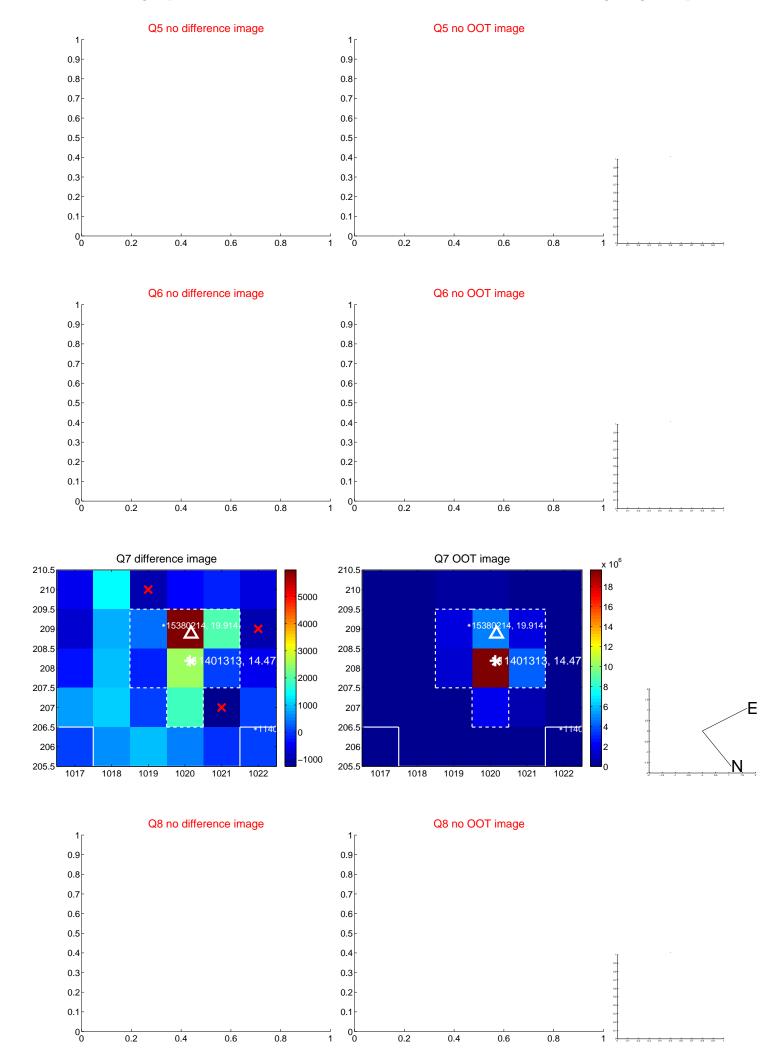
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

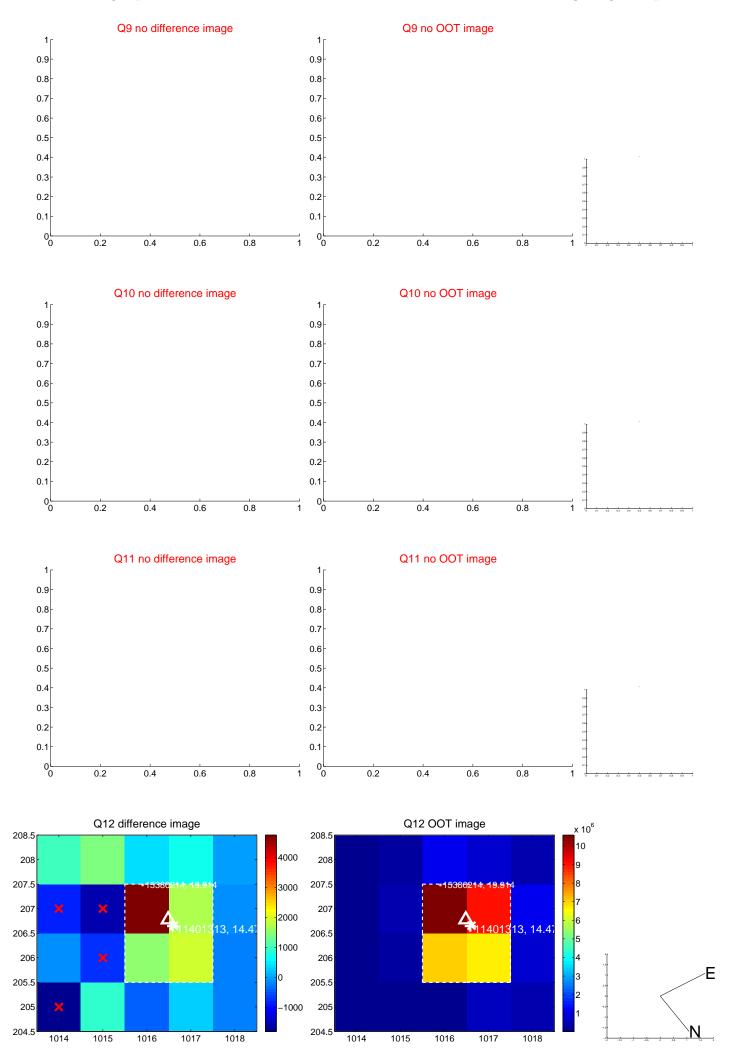
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.706 ± 0.665	2.57	0.723 ± 0.574	-1.546 ± 0.476
PRF-fit source offset from KIC position	1.810 ± 0.500	3.62	0.728 ± 0.618	-1.657 ± 0.473
photometric centroid source offset	2.88 ± 2.13	1.35	-2.74 ± 2.12	-0.89 ± 2.25

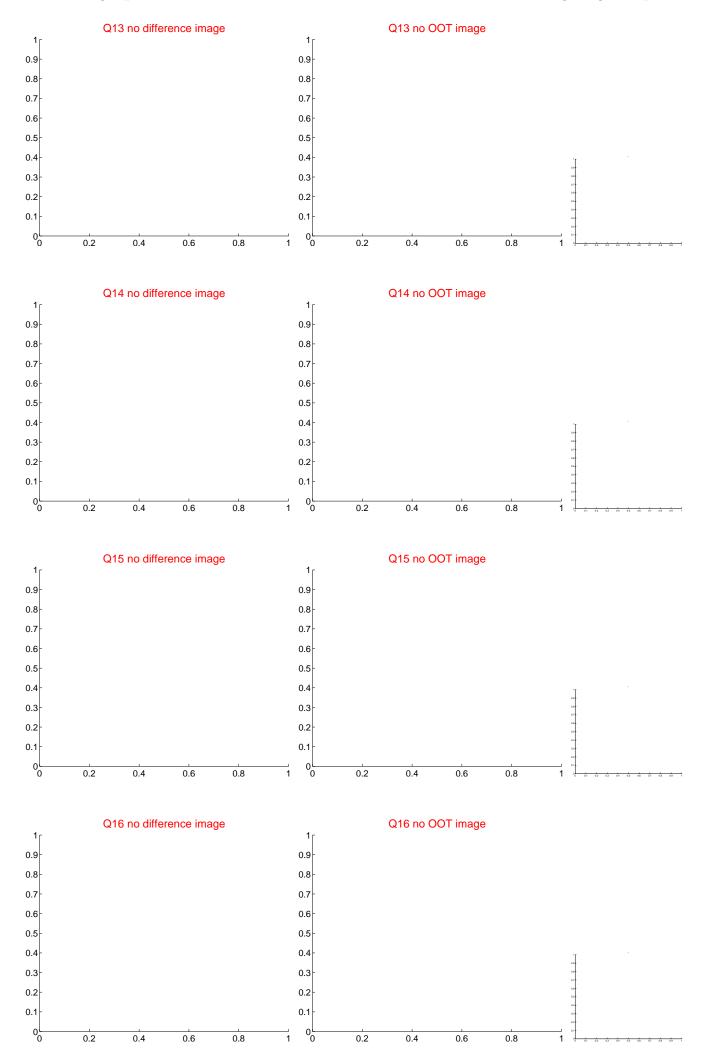


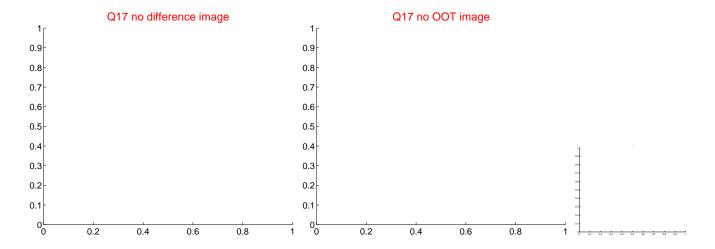
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

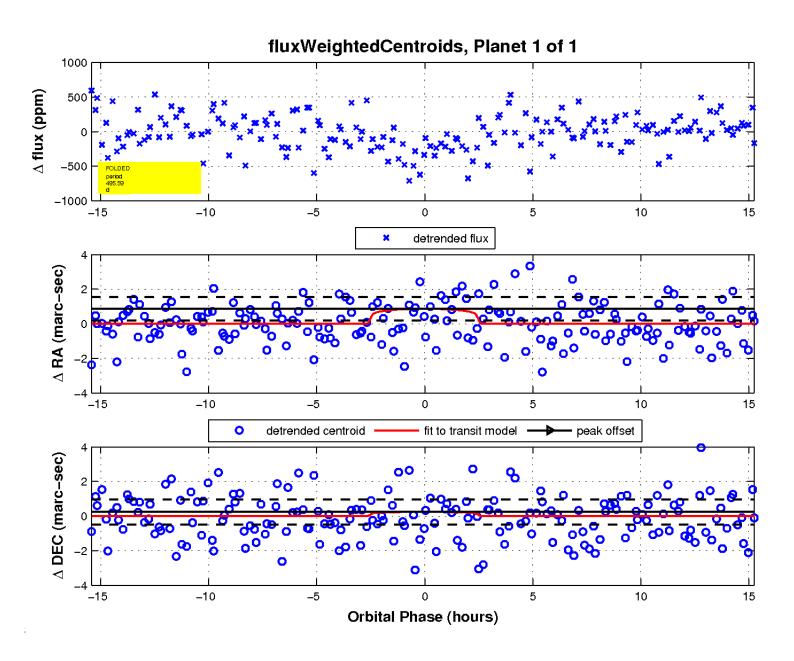












UKIRT Image

