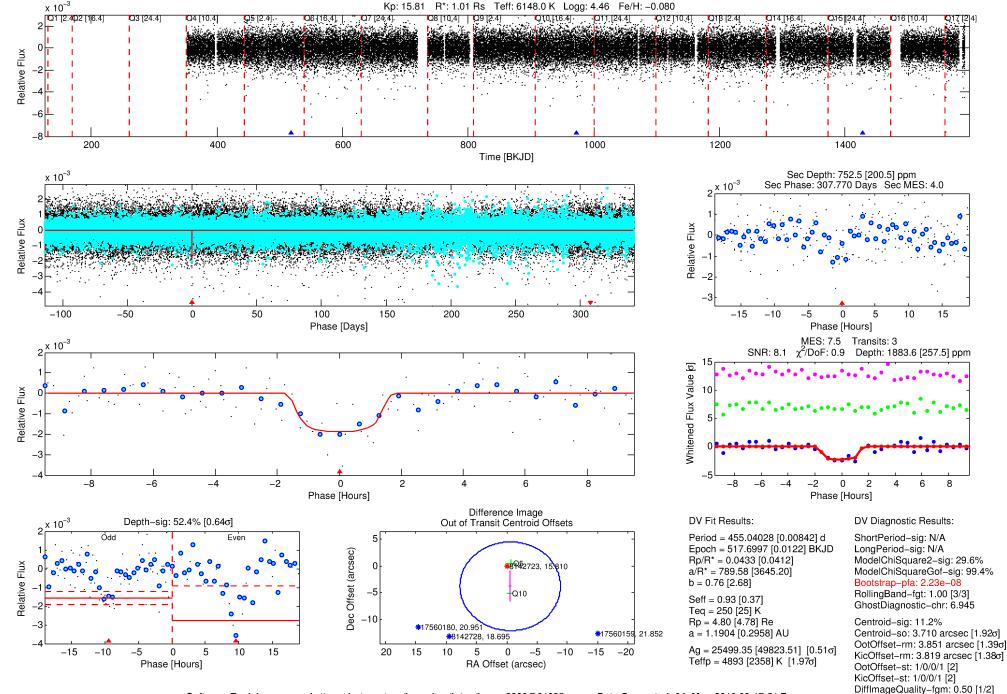
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

DV One-Page Summary

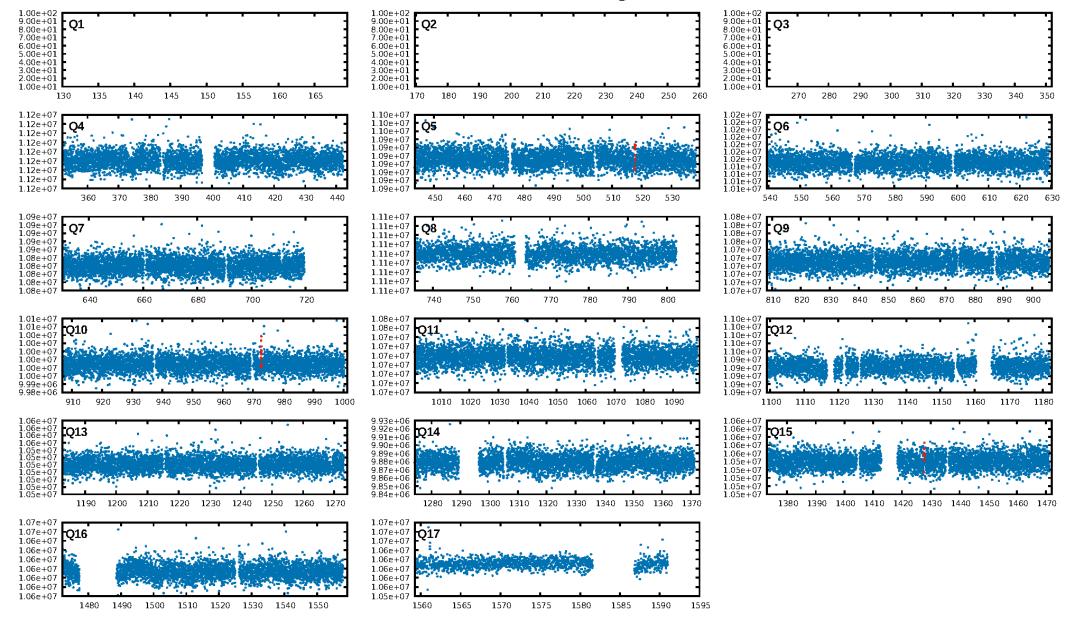
KIC: 8142723 Candidate: 1 of 1 Period: 455.040 d

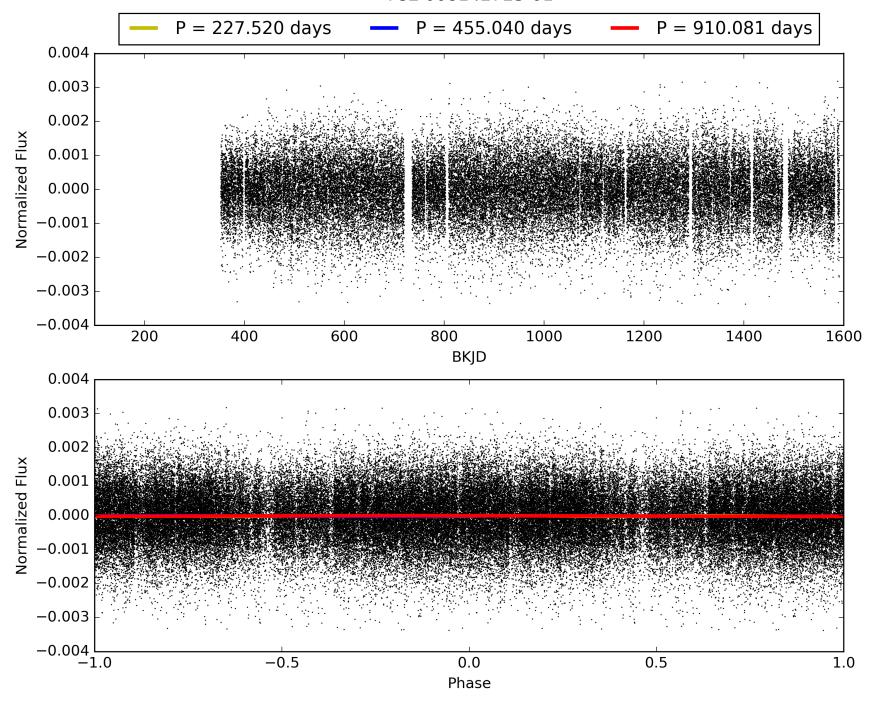
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

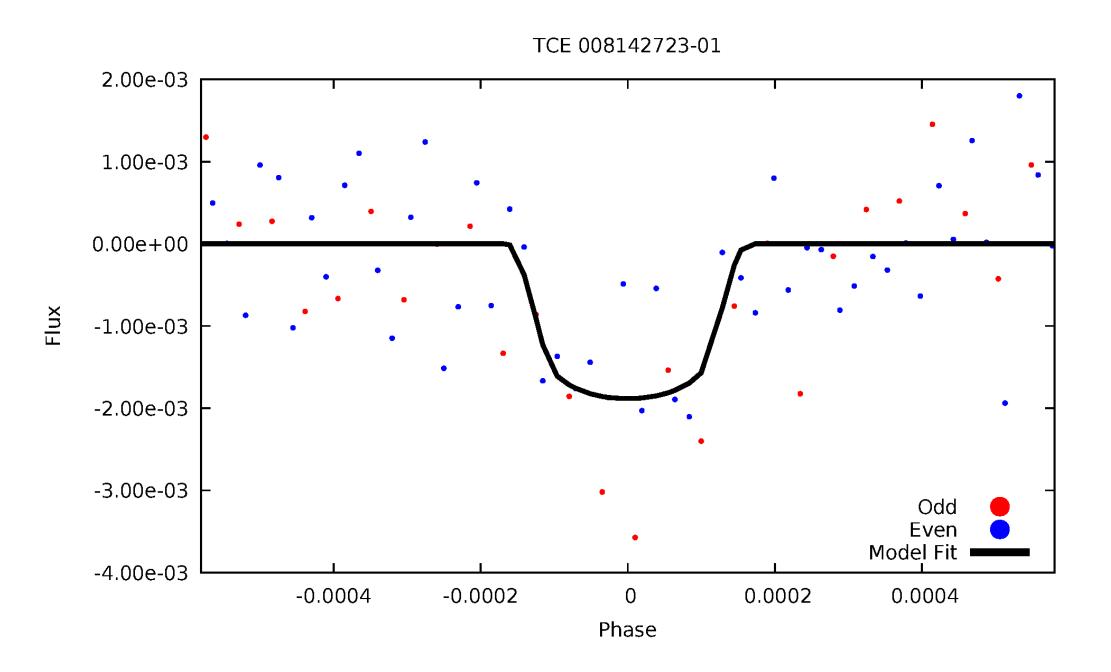
DiffImageOverlap-fno: 1.00 [3/3]



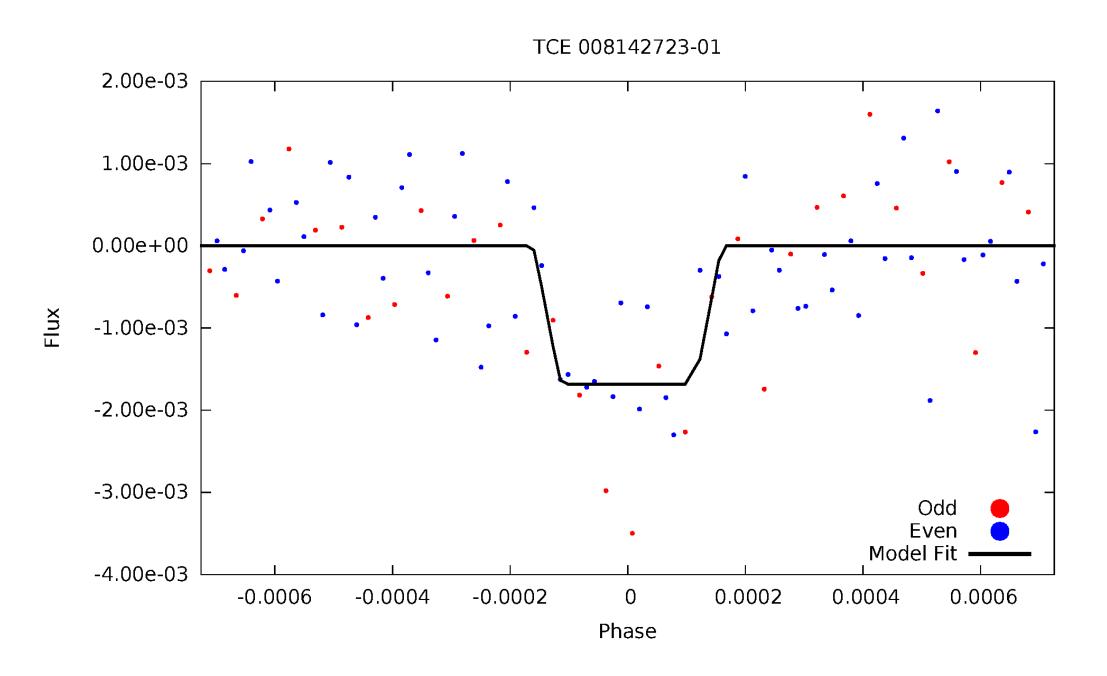
TCE 008142723-01, PDC Light Curves



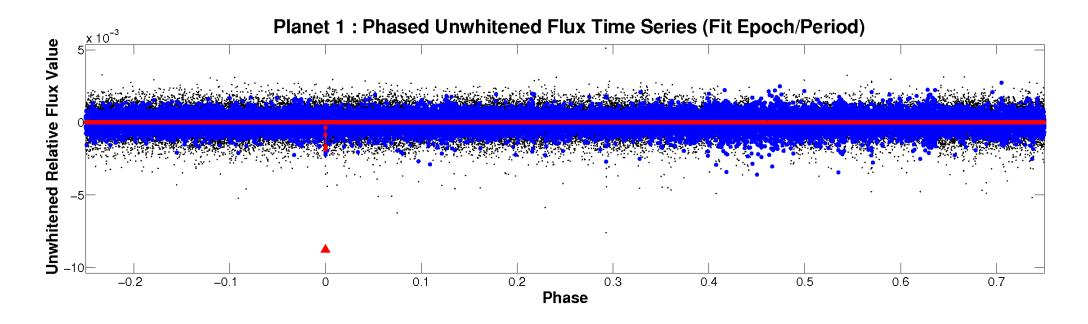


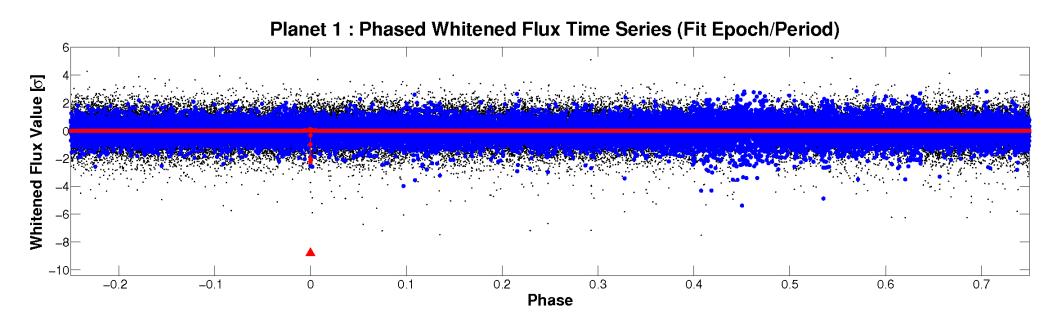


ALT Odd/Even



Non-Whitened Vs. Whitened Light Curve





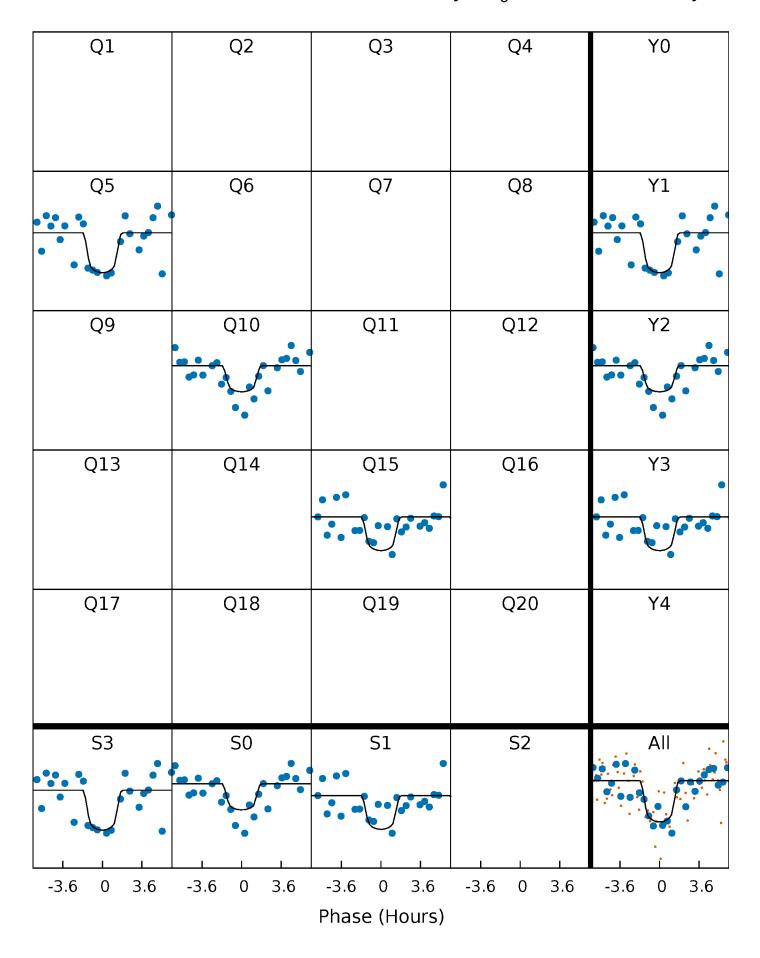
PDC Quarter-Phased Transit Curves

TCE 008142723-01 P=455.040280 Days T_0 =517.699746 (BKJD)

Q1	Q2	Q3	Q4	YO
Q5	Q6	Q7	Q8	Y1
Q9	Q10	Q11	Q12	Y2
Q13	Q14	Q15	Q16	Y3
Q17	Q18	Q19	Q20	Y4
S3	50	S1	S2	All
-3.6 0 3.6	-3.6 0 3.6	-3.6 0 3.6 Phase (Hours)	-3.6 0 3.6	-3.6 0 3.6

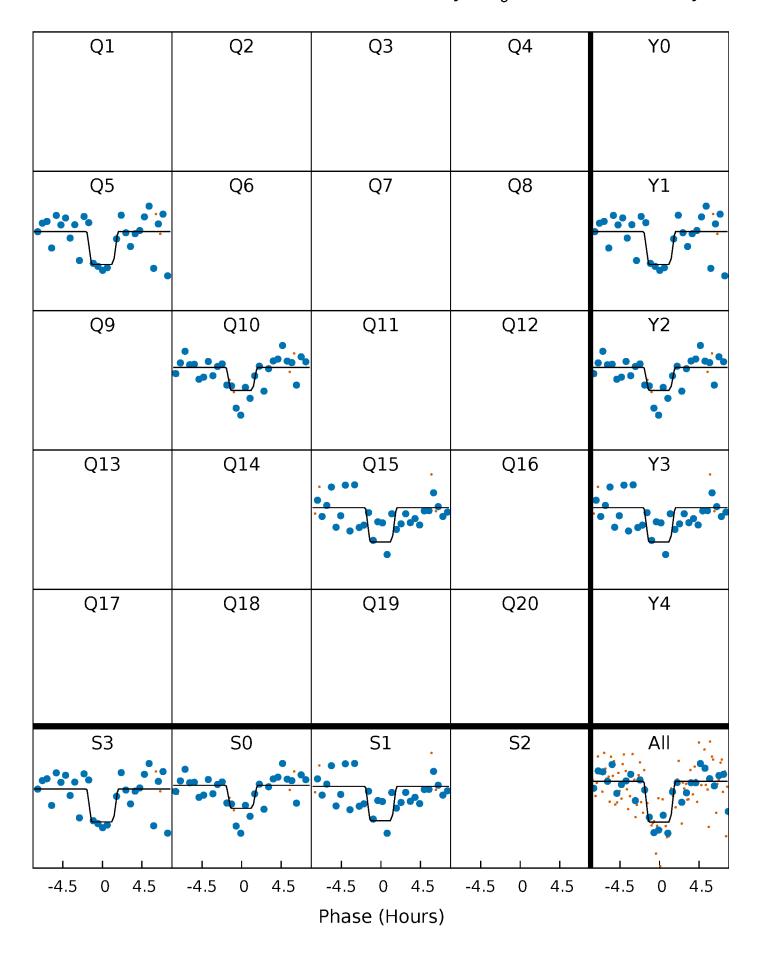
DV Quarter-Phased Transit Curves

TCE 008142723-01 P=455.040280 Days T_0 =517.699746 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

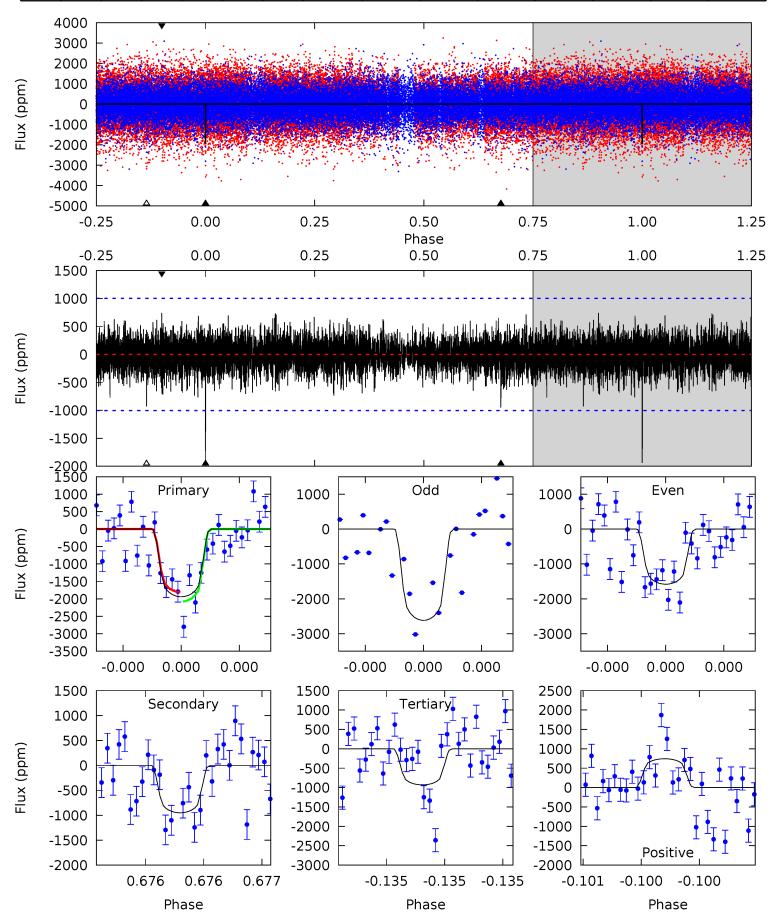
TCE 008142723-01 P=455.041759 Days T_0 =517.699343 (BKJD)



DV Model-Shift Uniqueness Test

008142723-01, P = 455.040280 Days, E = 62.659466 Days

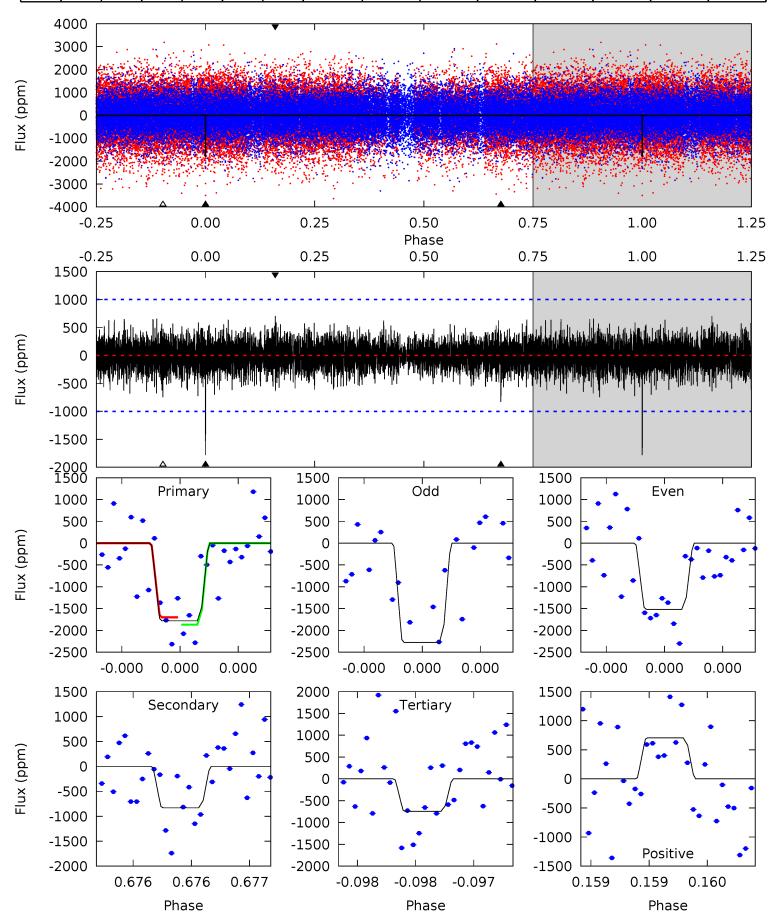
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.	5.35	5.23	4.18	5.64	3.59	1.15	5.68	6.73	0.11	1.16	2.83	0.96	0.28	0.75



Alt Model-Shift Uniqueness Test

008142723-01, P = 455.041759 Days, E = 62.657584 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.1	4.69	4.21	3.98	5.65	3.59	1.05	5.84	6.07	0.48	0.71	2.08	0.98	0.28	0.47



Stellar Parameters For KIC 008142723

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(\mathrm{M}_{\odot})$	$p_{\star} (\text{g} \cdot \text{cm}^{-3})$
	6148^{+193}_{-257}	$4.461^{+0.065}_{-0.195}$	$-0.080^{+0.250}_{-0.350}$	$1.015^{+0.302}_{-0.108}$	$1.083^{+0.139}_{-0.153}$	$1.457^{+0.399}_{-0.753}$
	+3%/-4%	+1%/-4%	+312%/-438%	+30%/-11%	+13%/-14%	+27%/-52%
Source	KIC0	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 008142723-01 / KOI

Detrend	Depth (ppm)	$R_p(R_{\bigoplus})$	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-950 ± 178	$5.84^{+4.67}_{-3.66}$	356^{+27}_{-19}	4892^{+3112}_{-920}	$20636_{-13709}^{+126441}$
Alt.	-831±177	$5.40^{+4.33}_{-3.52}$	354^{+23}_{-19}	4823^{+3765}_{-938}	$20842_{-14317}^{+154648}$

 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 $A_{obs} \gg 1.0$

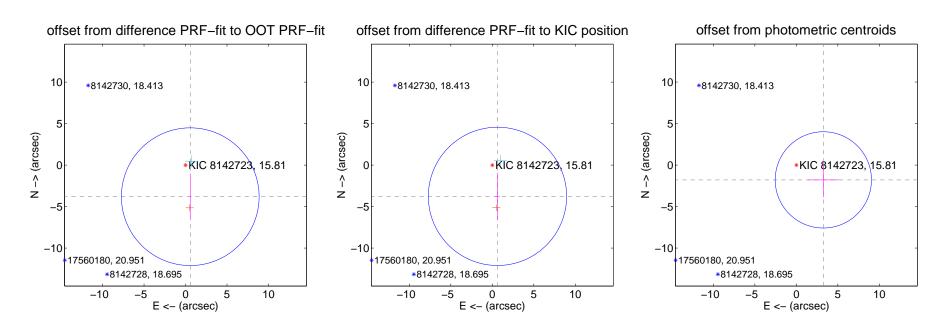
DV Centroid Data

Supplemental centroid analysis for 008142723-01. Kepler magnitude: 15.81. Transit SNR 8.09

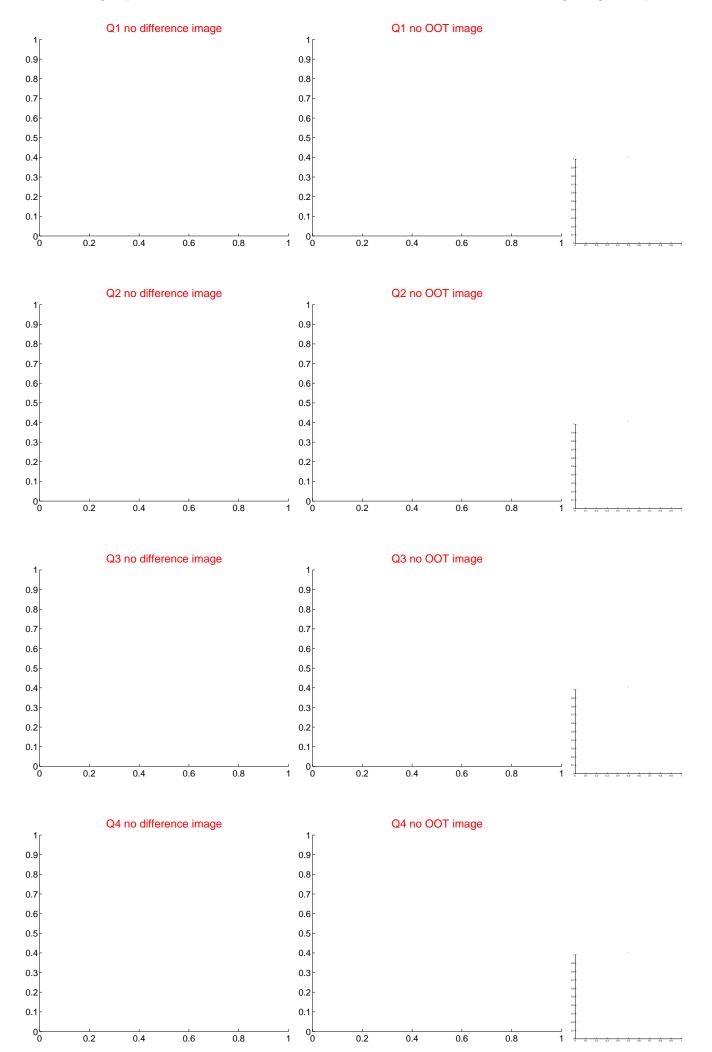
There are 1 quarters with good PRF difference image offsets

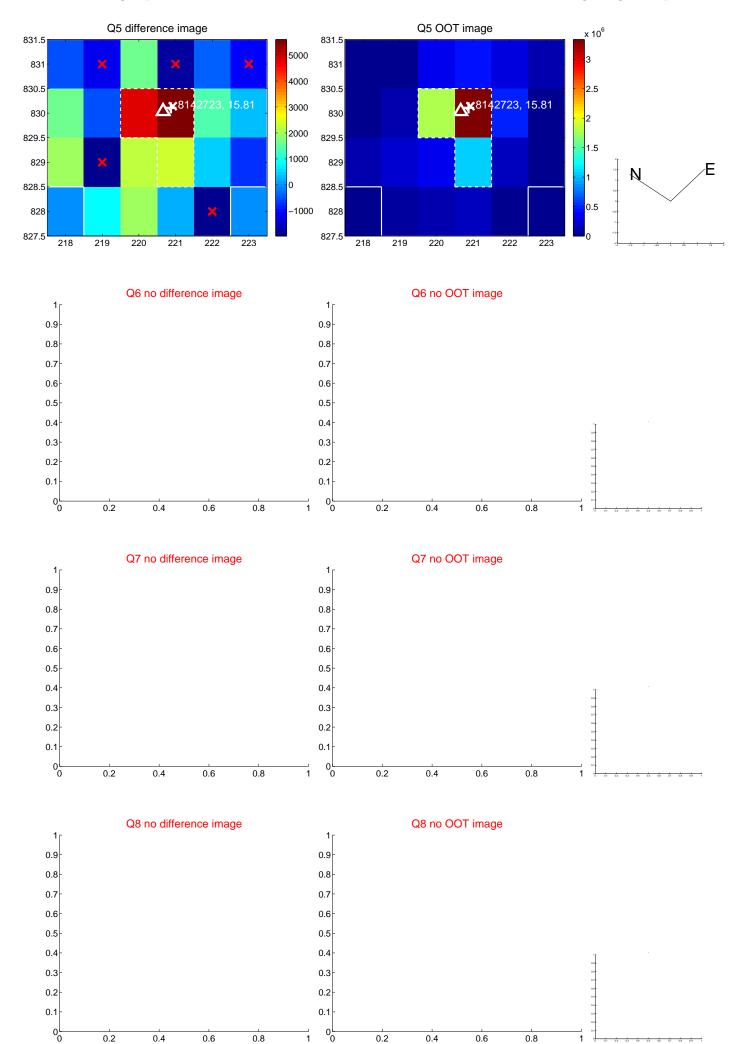
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

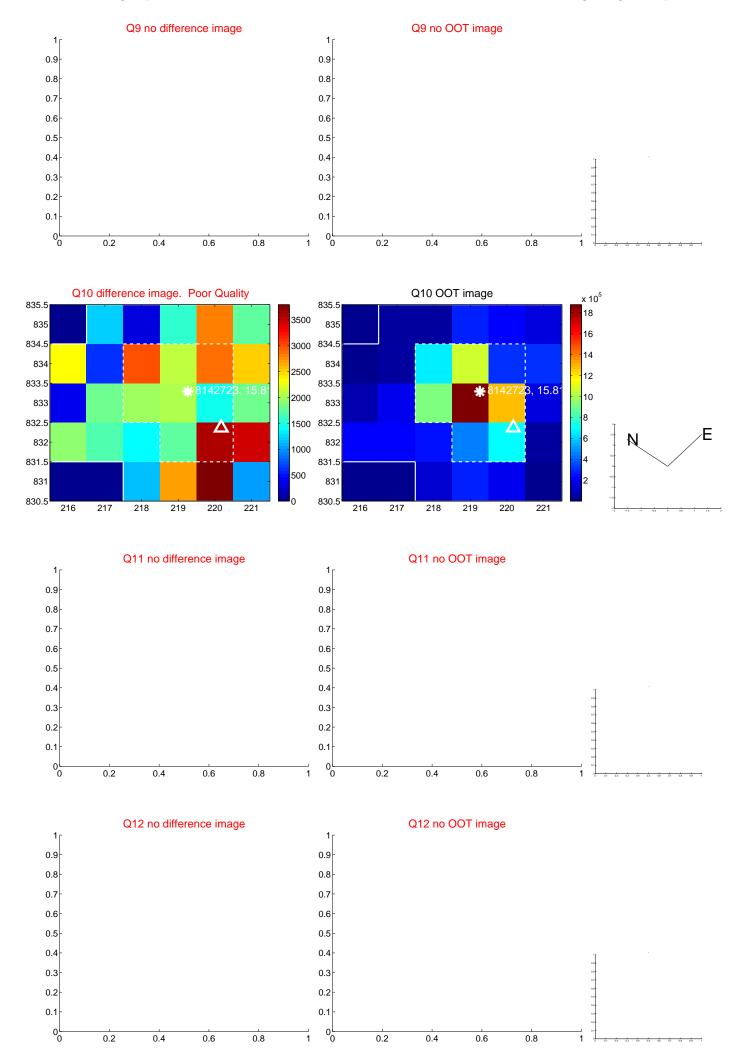
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.851 ± 2.766	1.39	-0.570 ± 0.151	-3.809 ± 2.796
PRF-fit source offset from KIC position	3.819 ± 2.777	1.38	-0.625 ± 0.273	-3.767 ± 2.815
photometric centroid source offset	3.71 ± 1.93	1.92	-3.25 ± 1.88	-1.79 ± 2.11

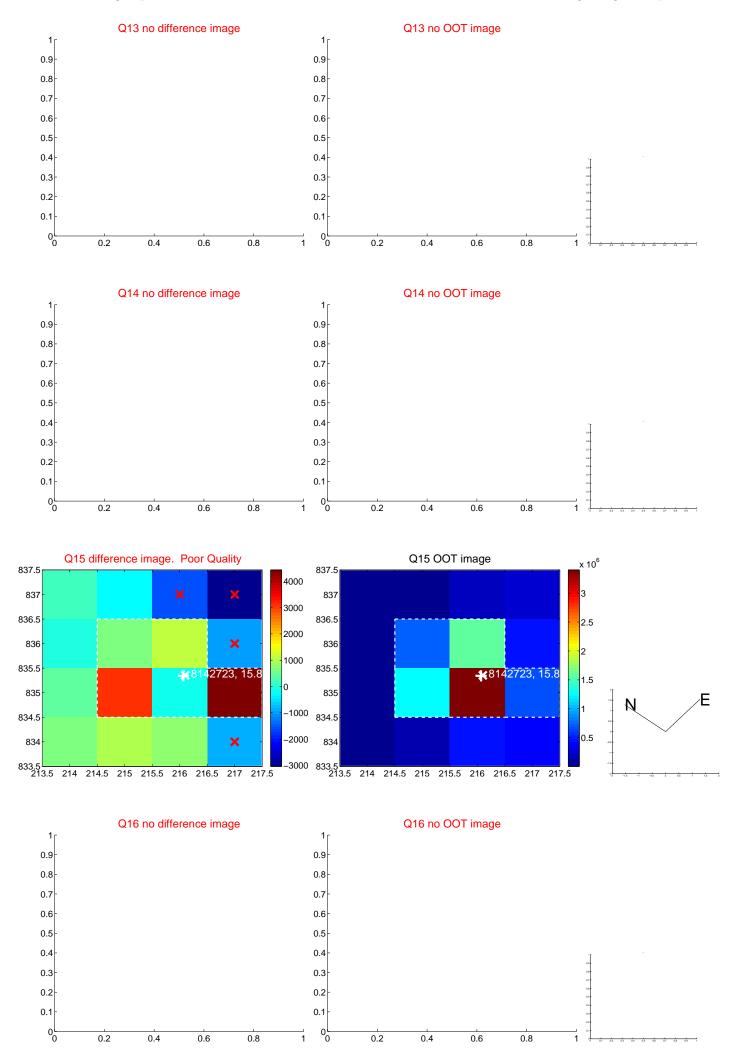


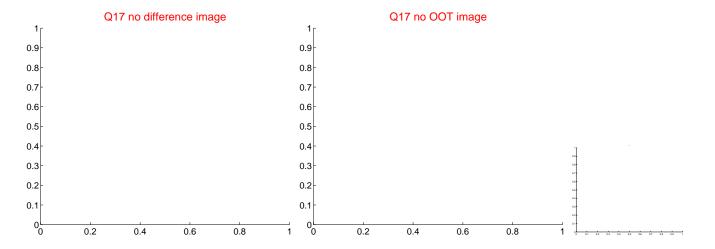
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

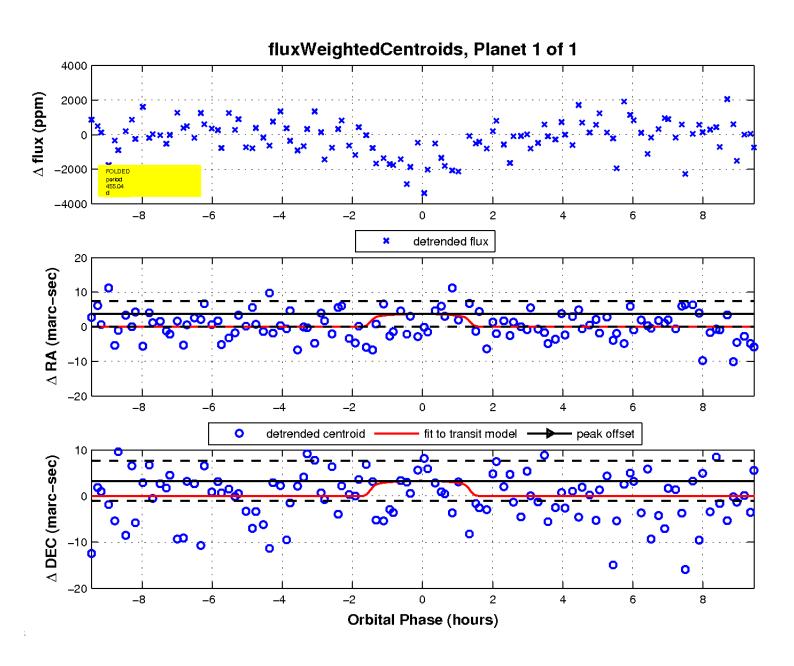












UKIRT Image

