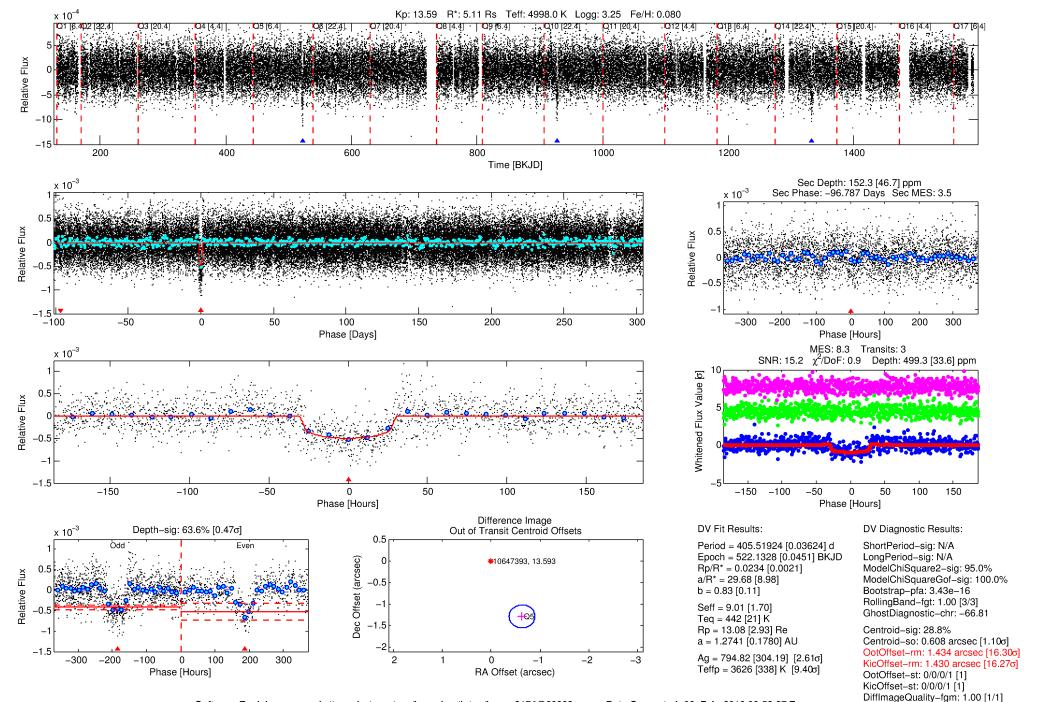
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

DV One-Page Summary

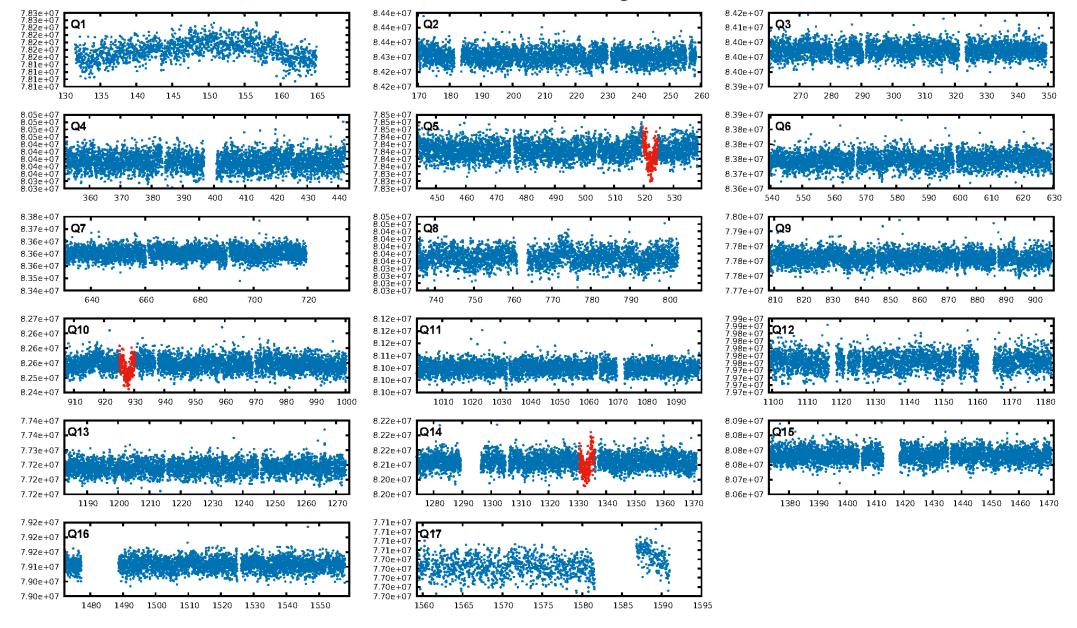
KIC: 10647393 Candidate: 1 of 1 Period: 405.519 d

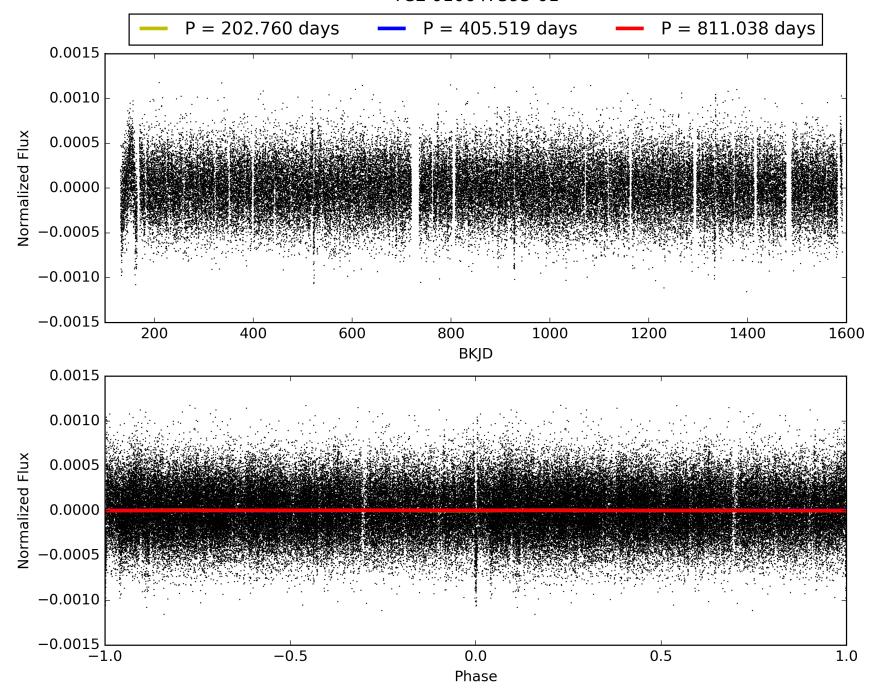
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

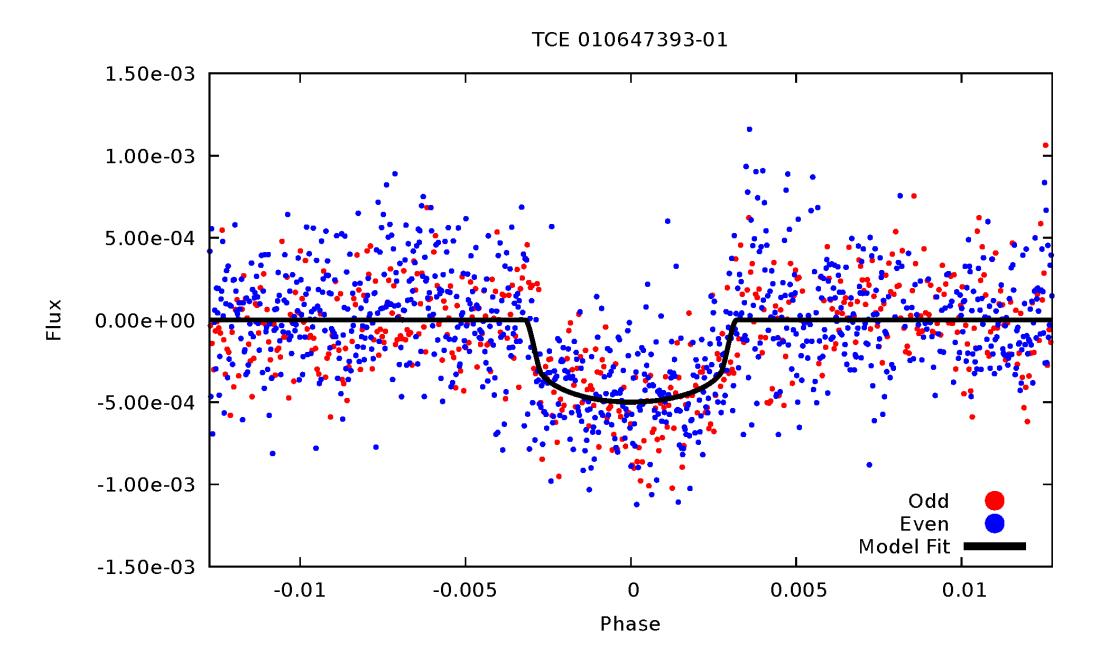
DiffImageOverlap-fno: 1.00 [1/1]



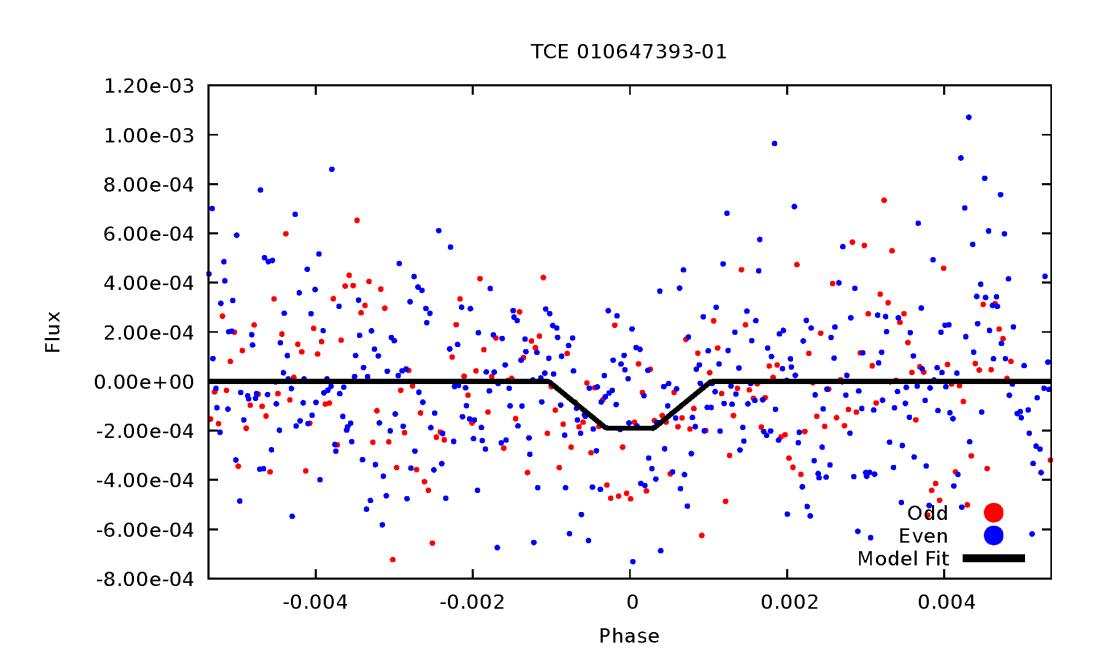
TCE 010647393-01, PDC Light Curves



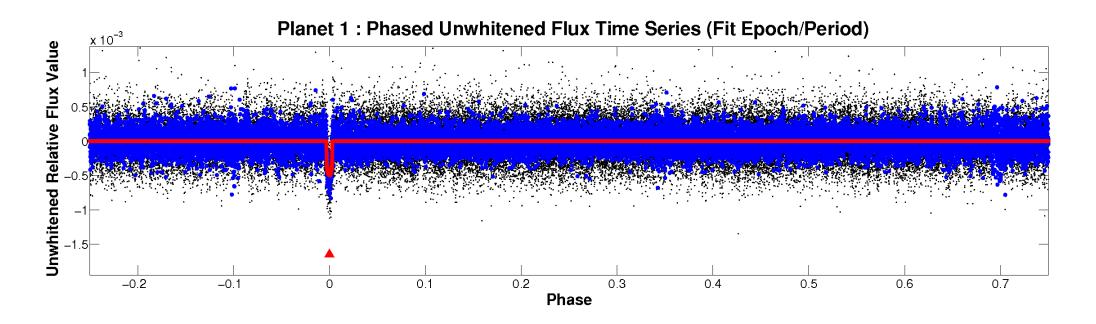


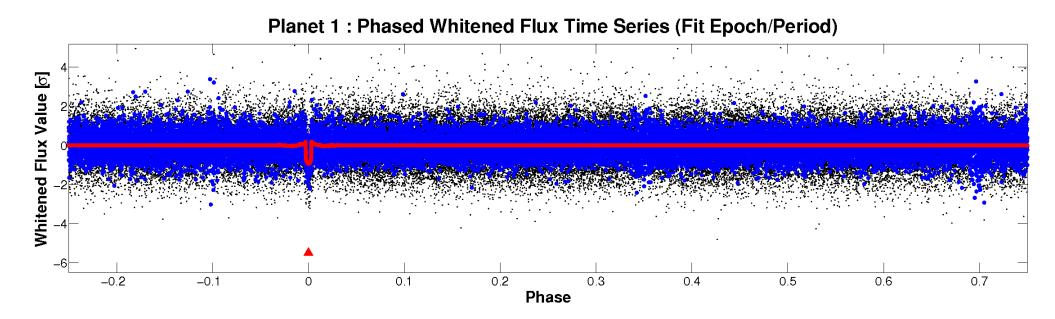


ALT Odd/Even



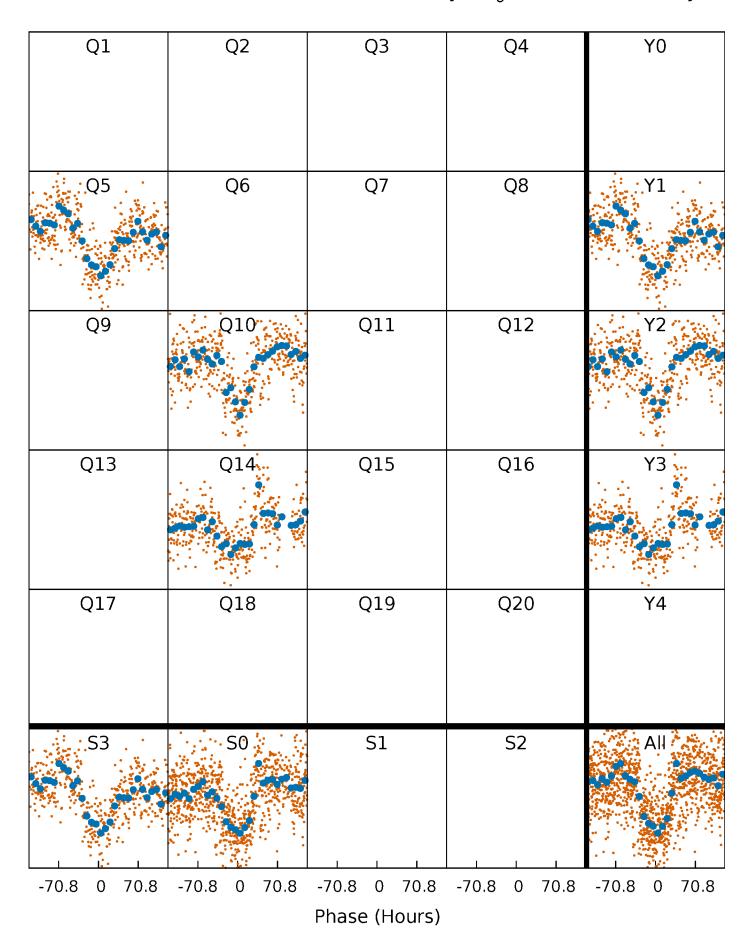
Non-Whitened Vs. Whitened Light Curve





PDC Quarter-Phased Transit Curves

TCE 010647393-01 P=405.519243 Days $T_0=522.132818$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 010647393-01 $P=405.519243 Days T_0=522.132818 (BKJD)$

Q5 Q6 Q7 Q8 Y1 Q9 Q10 Q11 Q12 Y2 Q13 Q14 Q15 Q16 Y3 Q17 Q18 Q19 Q20 Y4 -70.8 0 70.8 -70.8 0 70.8 -70.8 0 70.8 -70.8 0 70.8 -70.8 0 70.8											
Q13	Q1	Q2	Q3	Q4	YO						
Q13	Q5	Q6	Q7	Q8	Y1						
Q17 Q18 Q19 Q20 Y4	Q9	Q10	Q11	Q12	Y2						
-70.8 0 70.8 -70.8 0 70.8 -70.8 0 70.8 -70.8 0 70.8 -70.8 0 70.8 -70.8 0 70.8	Q13	Q14	Q15	Q16	Y3						
-70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0 70.8 0	Q17	Q18	Q19	Q20	Y4						
	.S3	S0	S1	S2	All						
	-70.8 0 70.8	-70.8 0 70.8	-70.8 0 70.8	-70.8 0 70.8	-70.8 0 70.8						
THOSE (HOULD)			Phase (Hours)								

Alt. Detrend Quarter-Phased Transit Curves

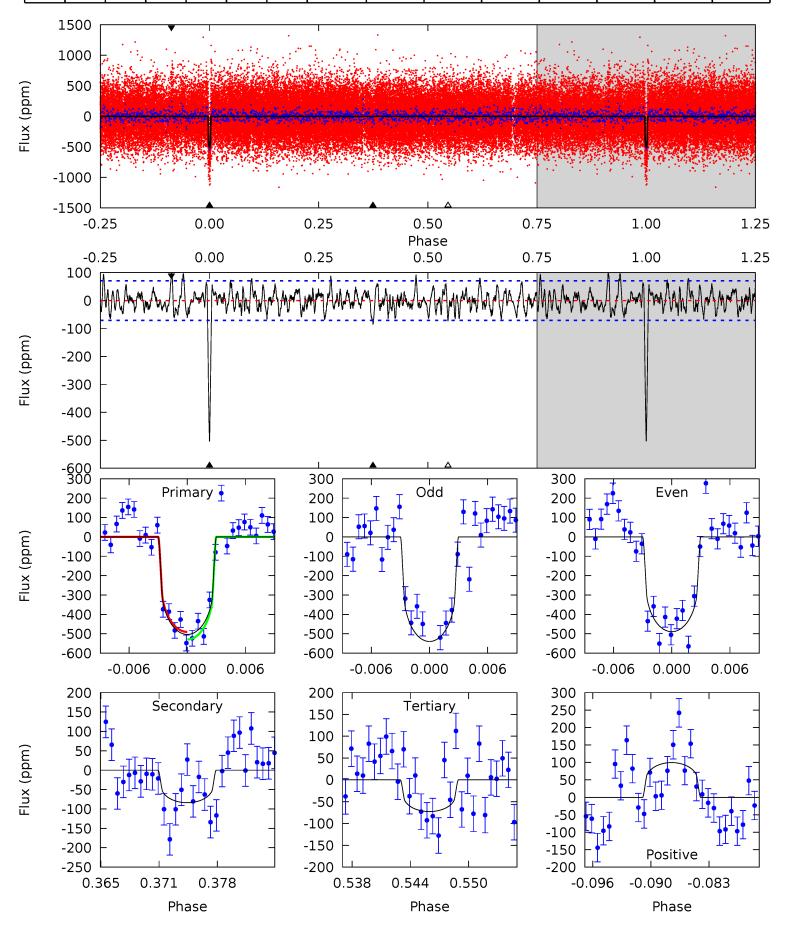
TCE 010647393-01 P=405.088516 Days T_0 =522.698981 (BKJD)

			1	
Q1	Q2	Q3	Q4	Y0
. OF	06	07	0.9	V1
Q5	Q6	Q7	Q8	Y1
Q9	Q10	Q11	Q12	Y2
Q13	Q14	Q15	Q16	Y3
Q17	Q18	Q19	Q20	Y4
S3	S0	S1	S 2	All.
20.0 0 20.0	20.9 0 20.0	20.9 0 20.0	20.9 0 20.0	20.0
-29.8 0 29.8	-29.8 0 29.8	-29.8 0 29.8	-29.8 0 29.8	-29.8 0 29.8
		Phase (Hours)		

DV Model-Shift Uniqueness Test

010647393-01, P = 405.519243 Days, E = 116.613575 Days

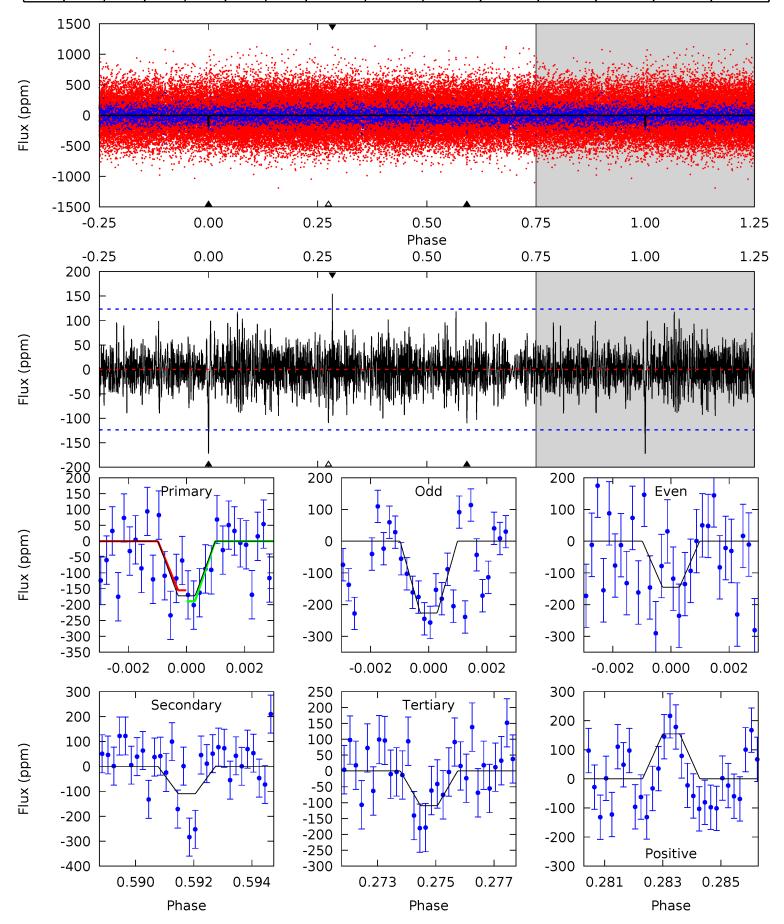
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
36.3	6.06	5.25	7.18	5.11	2.73	2.11	31.1	29.2	0.81	-1.13	1.72	0.96	0.17	1.41



Alt Model-Shift Uniqueness Test

010647393-01, P = 405.088516 Days, E = 117.610465 Days

	Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
ſ	7.42	4.73	4.72	6.66	5.32	3.08	1.43	2.71	0.77	0.01	-1.93	1.65	0.79	0.47	0.74



Stellar Parameters For KIC 010647393

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	$R \left(\mathbf{R}_{\odot} \right)$	$M(\mathrm{M}_{\odot})$	$p_{\star} (\text{g} \cdot \text{cm}^{-3})$
	4998^{+86}_{-148}	$3.245^{+0.033}_{-0.027}$	$0.080^{+0.150}_{-0.300}$	$5.114^{+0.395}_{-1.054}$	$1.675^{+0.251}_{-0.586}$	$0.018^{+0.005}_{-0.002}$
	+2%/-3%	+1%/-1%	+188%/-375%	+8%/-21%	+15%/-35%	+30%/-10%
Source	PHO1	AST9	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 010647393-01 / KOI

Detrend	Depth (ppm)	$R_p(R_{\bigoplus})$	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-84±14	$13.23^{+1.34}_{-1.80}$	615^{+15}_{-19}	3535^{+165}_{-146}	449^{+125}_{-105}
Alt.	-110±23	$7.74^{+1.38}_{-1.43}$	616^{+17}_{-21}	4460^{+390}_{-321}	1648^{+856}_{-522}

 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 $A_{obs} \gg 1.0$

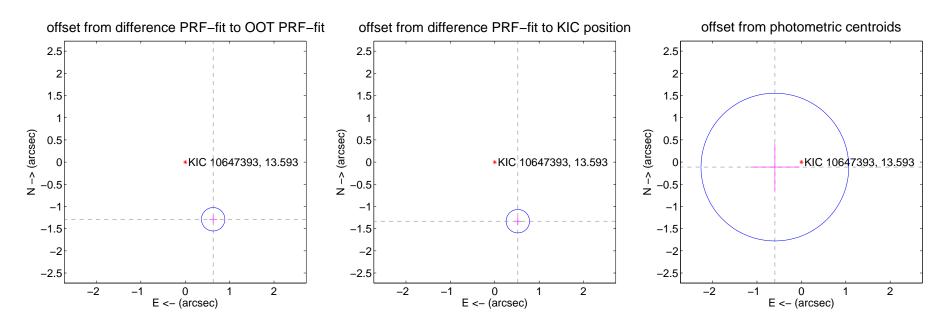
DV Centroid Data

Supplemental centroid analysis for 010647393-01. Kepler magnitude: 13.59. Transit SNR 15.23

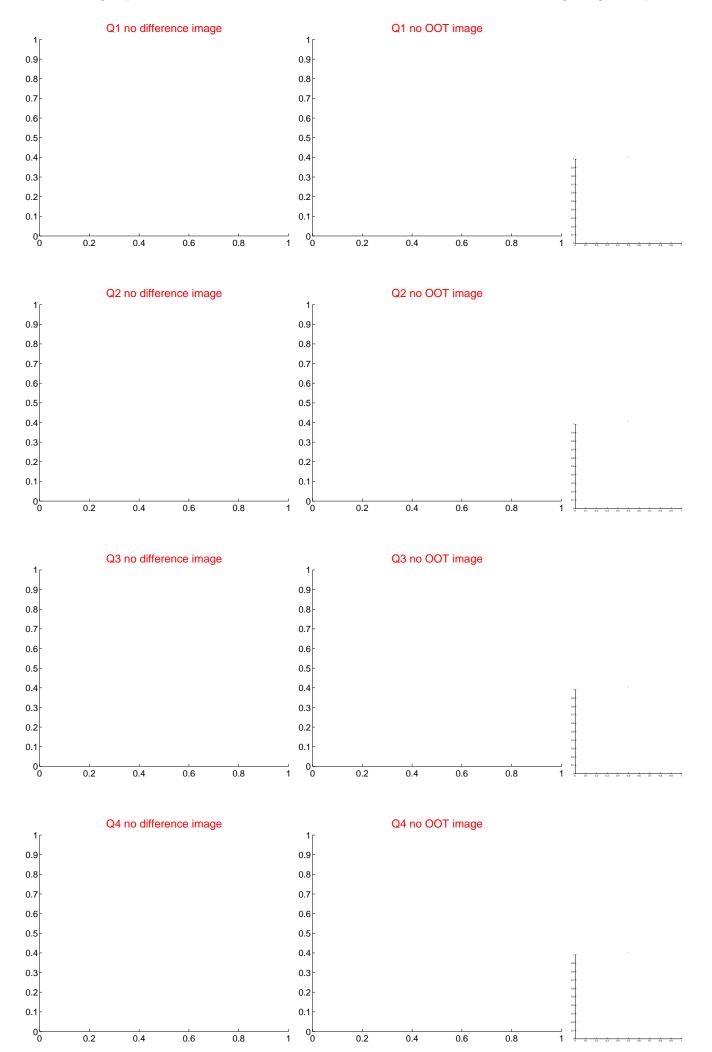
There are 1 quarters with good PRF difference image offsets

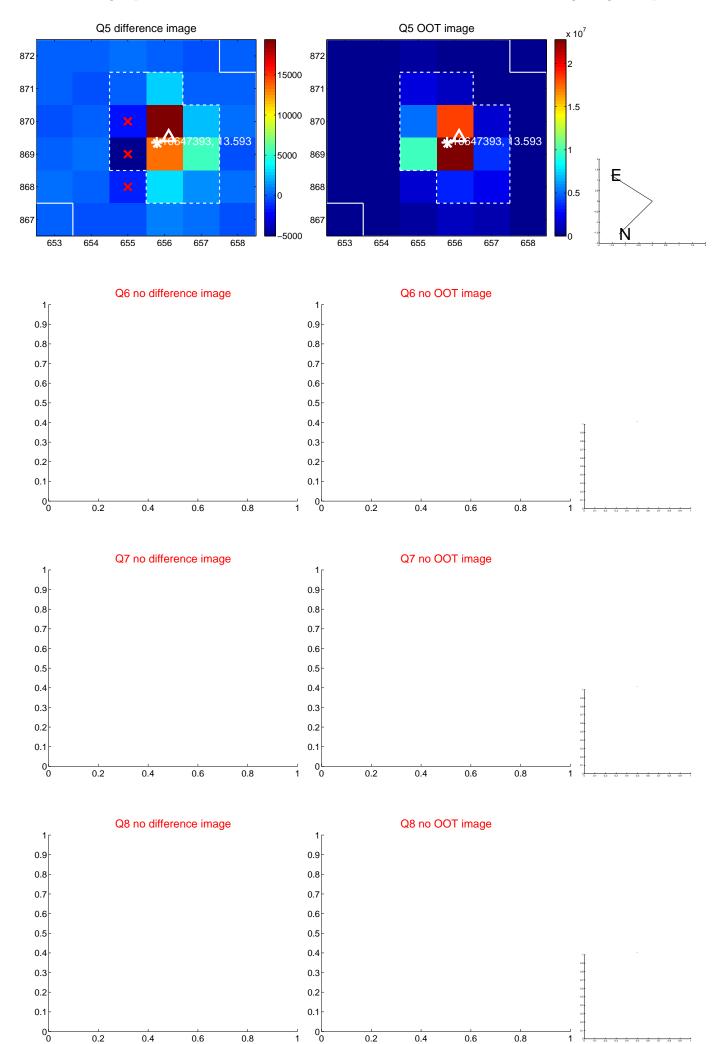
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

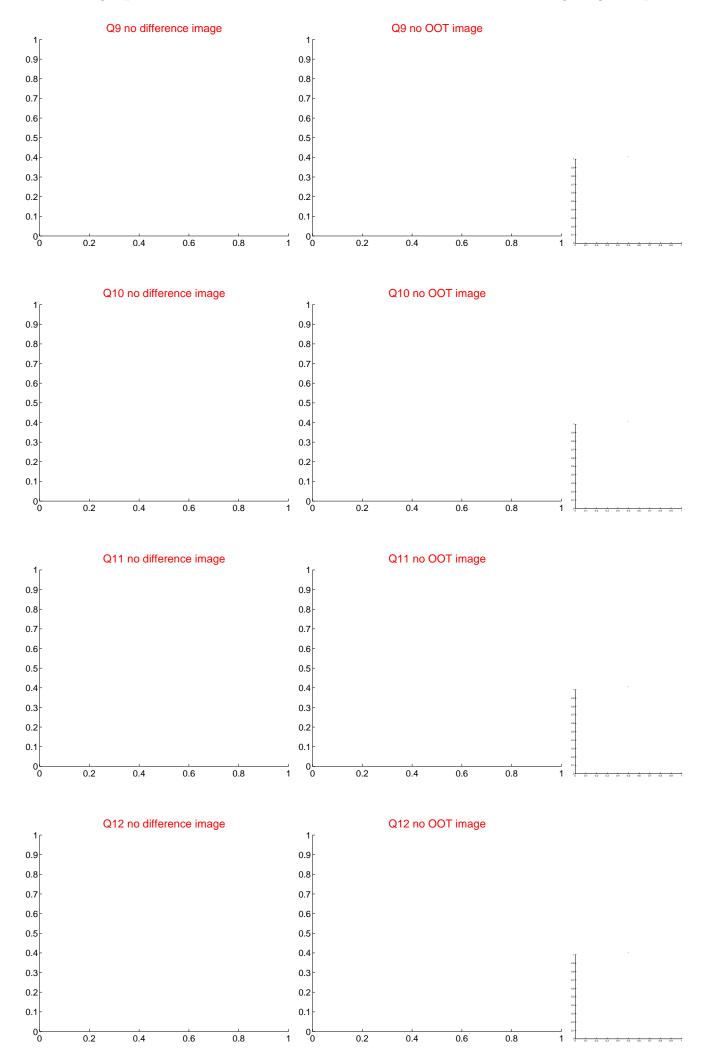
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.434 ± 0.088	16.30	-0.629 ± 0.089	-1.289 ± 0.088
PRF-fit source offset from KIC position	1.430 ± 0.088	16.27	-0.520 ± 0.089	-1.332 ± 0.088
photometric centroid source offset	0.61 ± 0.55	1.10	0.60 ± 0.56	-0.11 ± 0.53

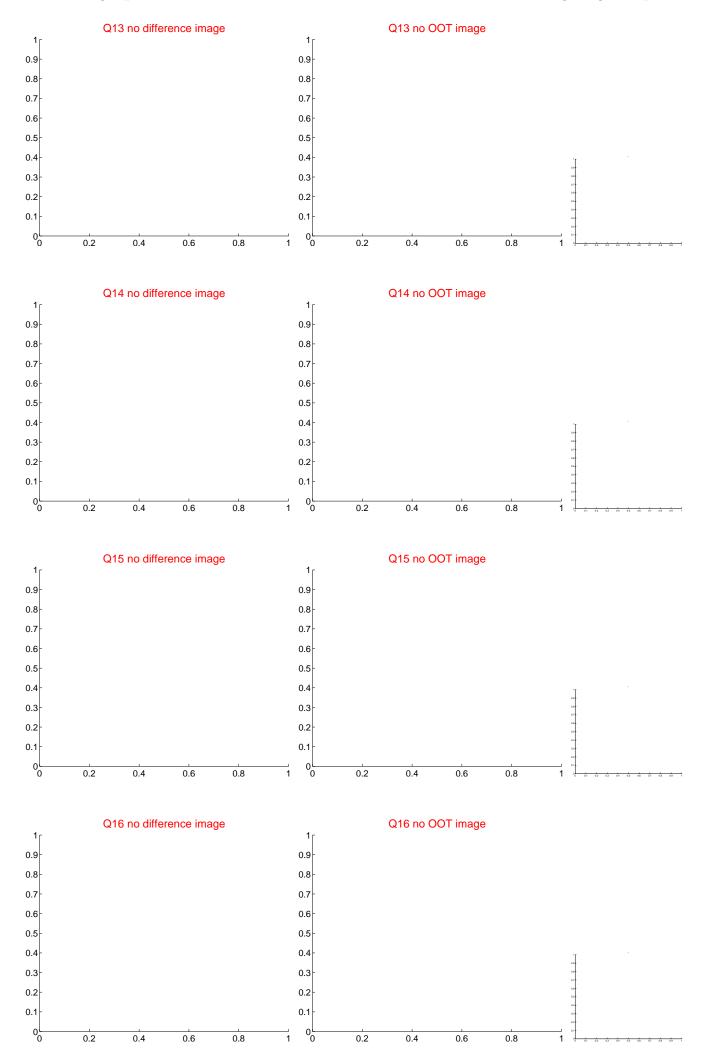


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

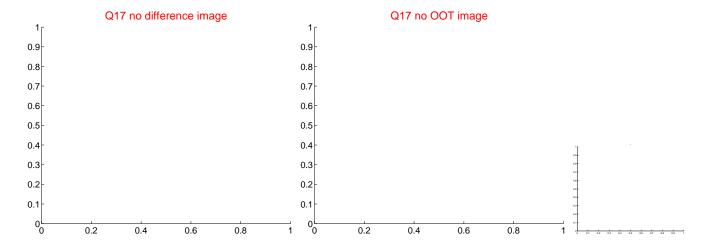


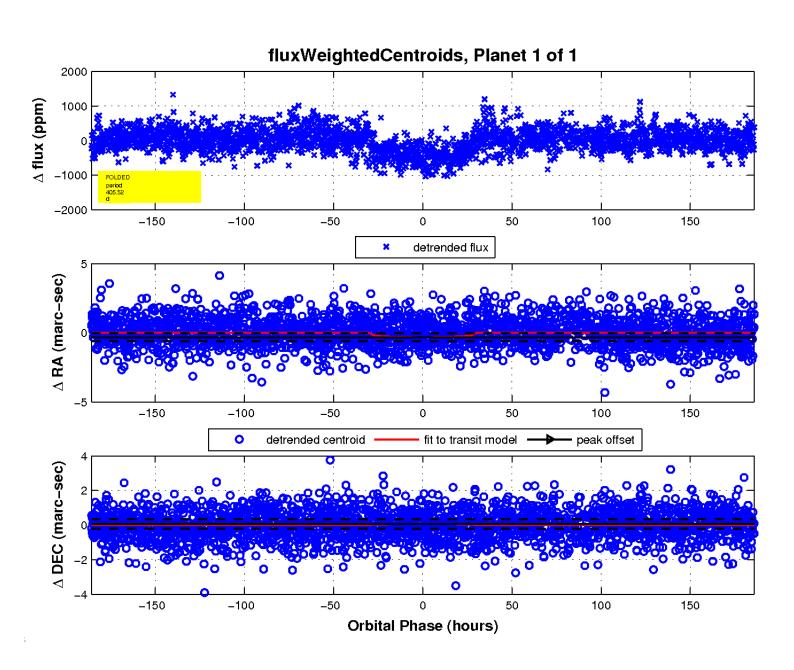






white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.





UKIRT Image

