

KIC 007117413

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
007117413-01	OBS	No	0.566795	131.813277	924.5	2.000	8.5	-1.0	0.83	5598	2.50	3557.76

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007117413-01	OBS	FP	0.00	1	0	0	1	LPP_DV—CENT_NOFITS—EPHEM_MATCH

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

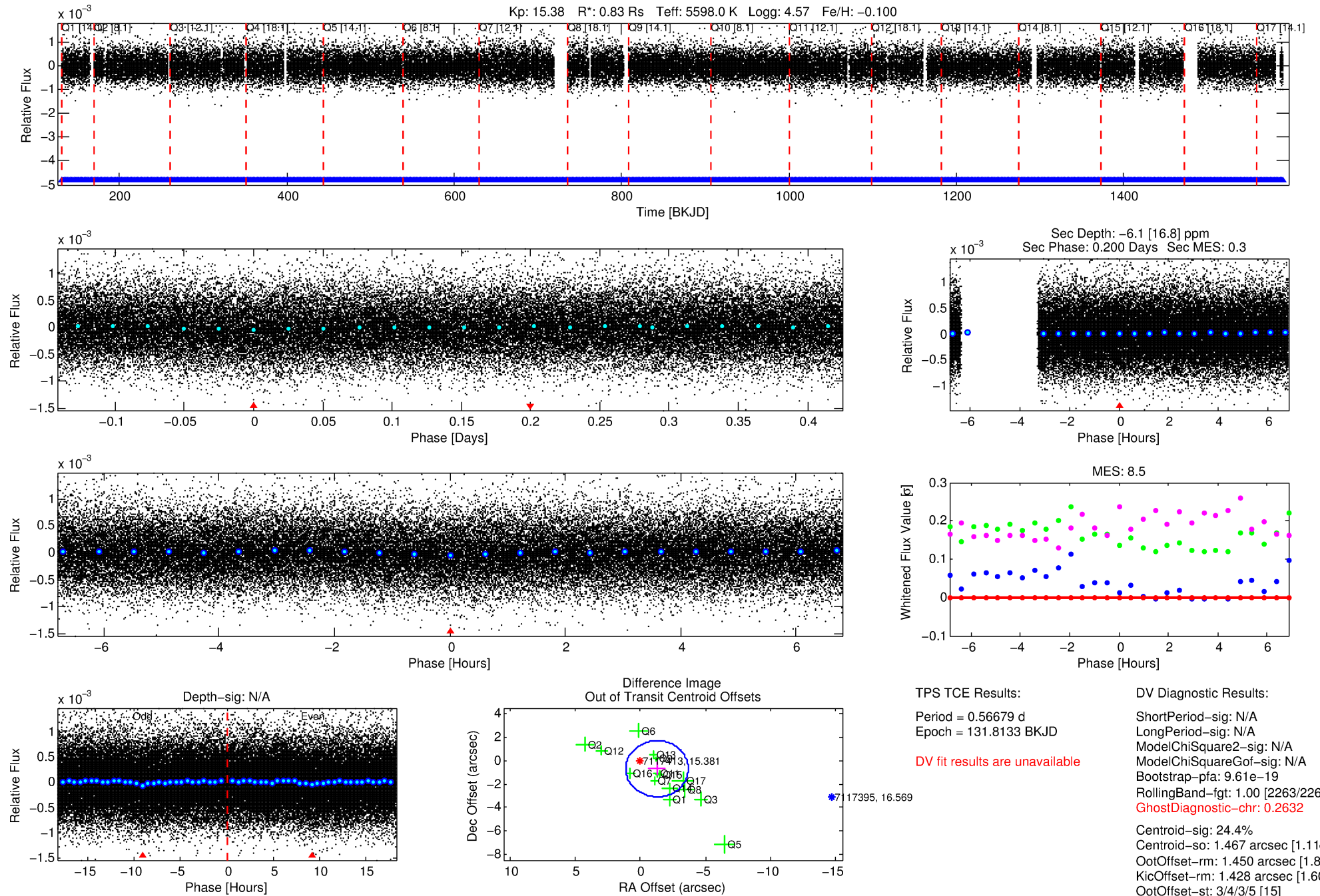
Ephemeris Match Information For 007117413-01

TCE (1)	KIC	Parent (2)	Parent KIC	P ₁ :P ₂	Dist (″)	Δ Row	Δ Col	m ₂	m ₁	D ₂ /D ₁	Mechanism	Flag	σ_P	σ_T
007117413-01	7117413	RR-Lyr-pri	7198959	1:1	1050.7	249	87	7.86	15.38	674.56	Direct-PRF	0	0.62	20.15

Notes: P₁:P₂ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m₂ and m₁ are the magnitudes of the parent and child. D₂/D₁ is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

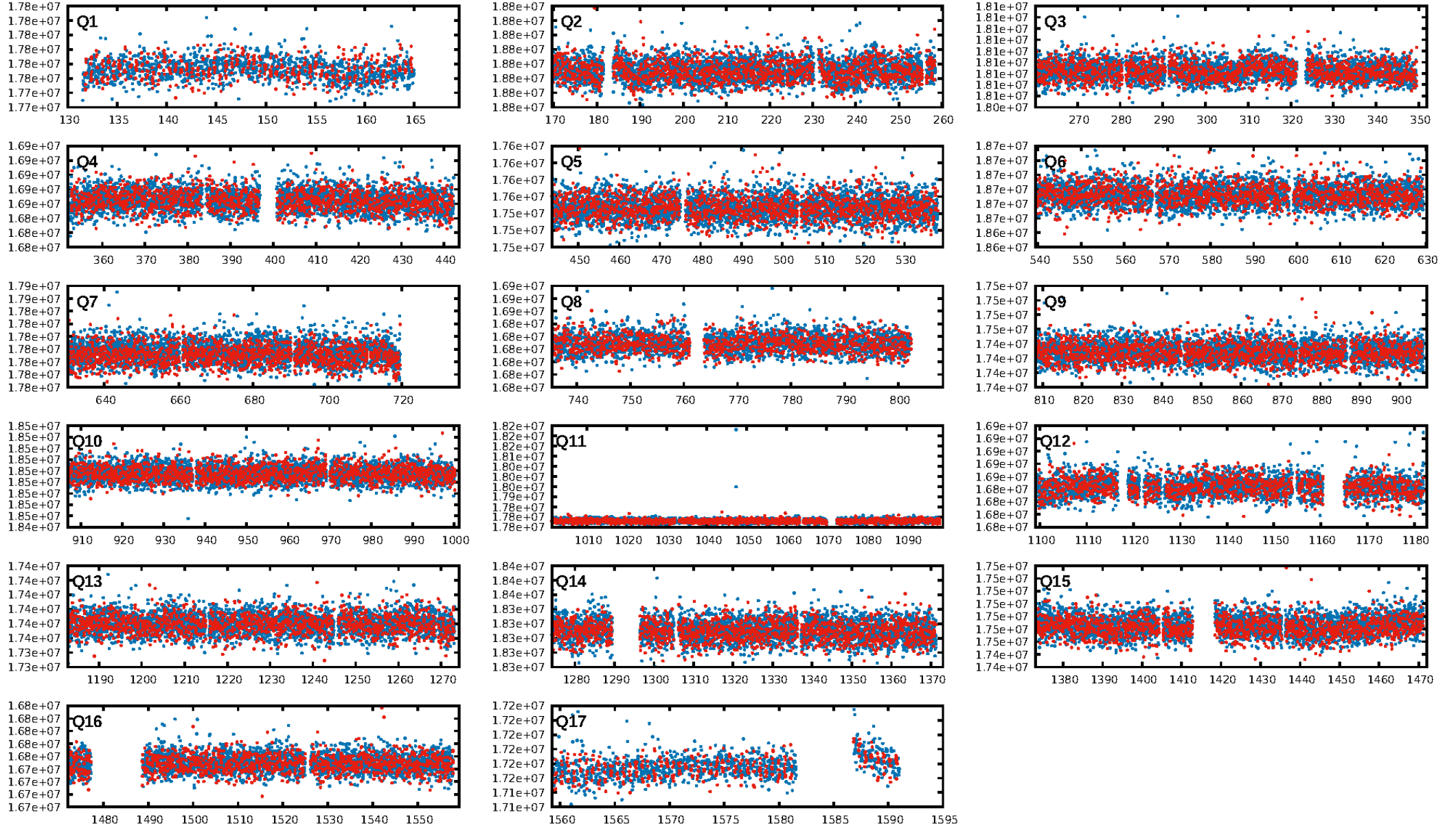
KIC: 7117413 Candidate: 1 of 1 Period: 0.567 d



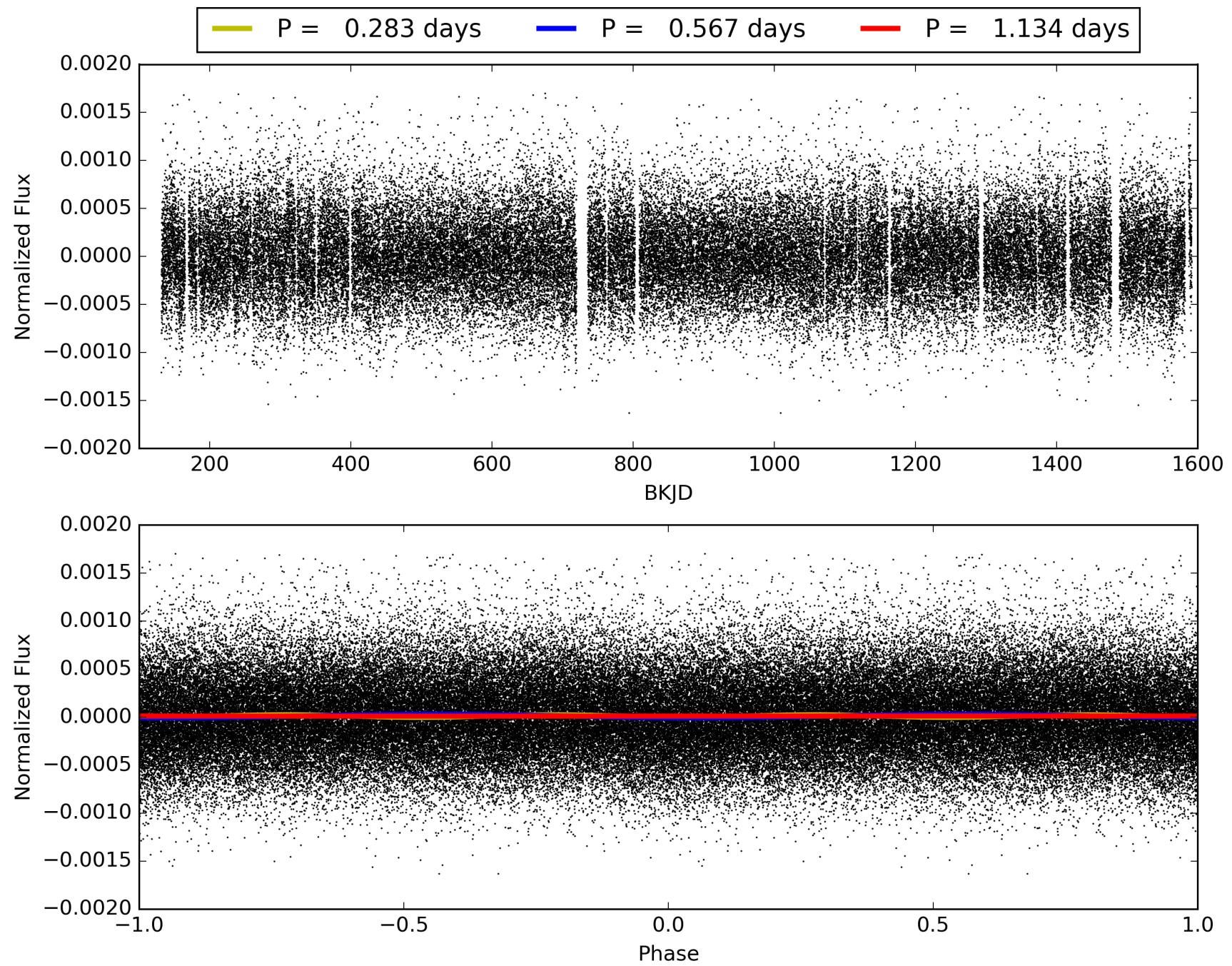
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 05:51:23 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007117413-01, PDC Light Curves

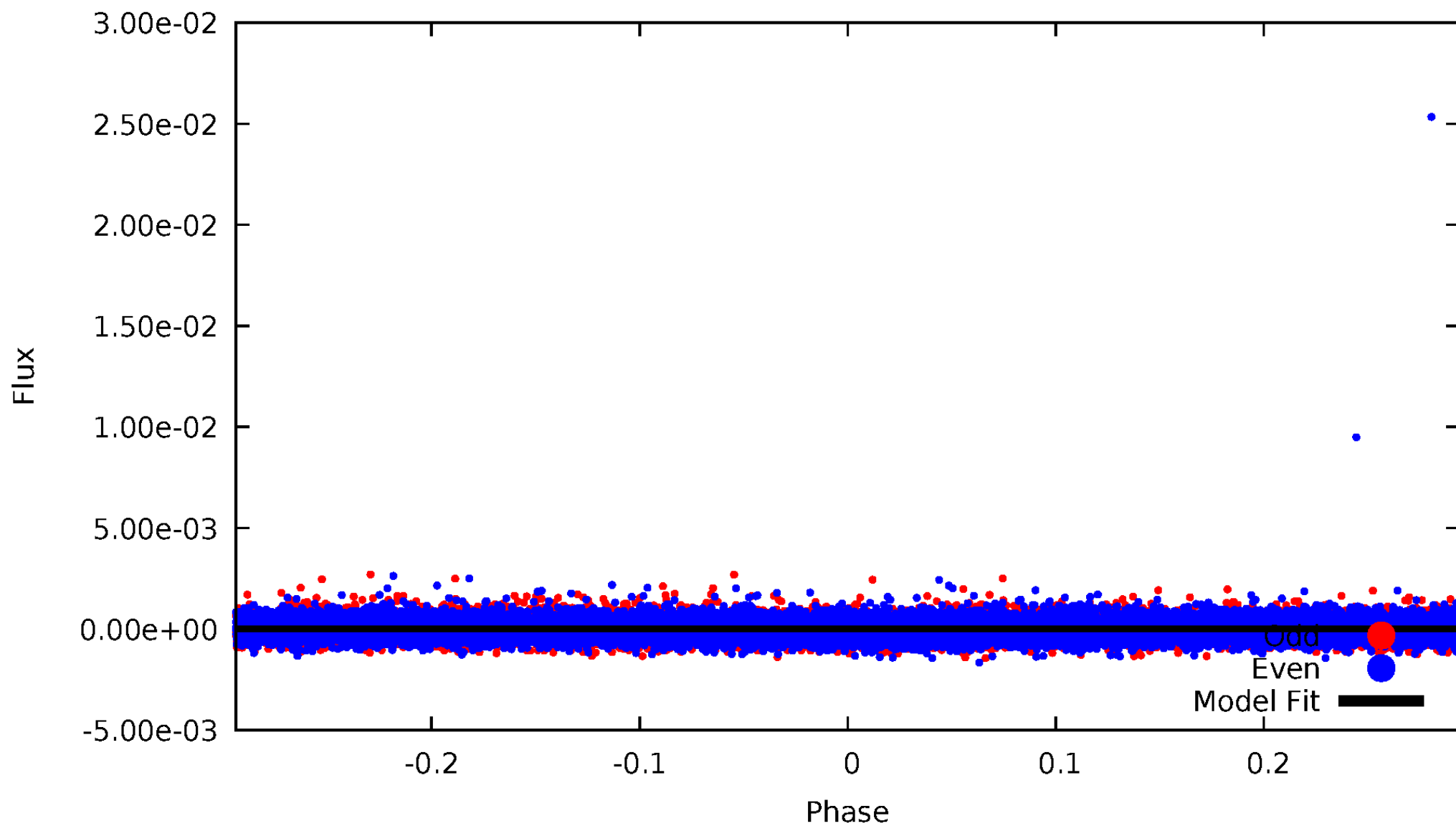


TCE 007117413-01



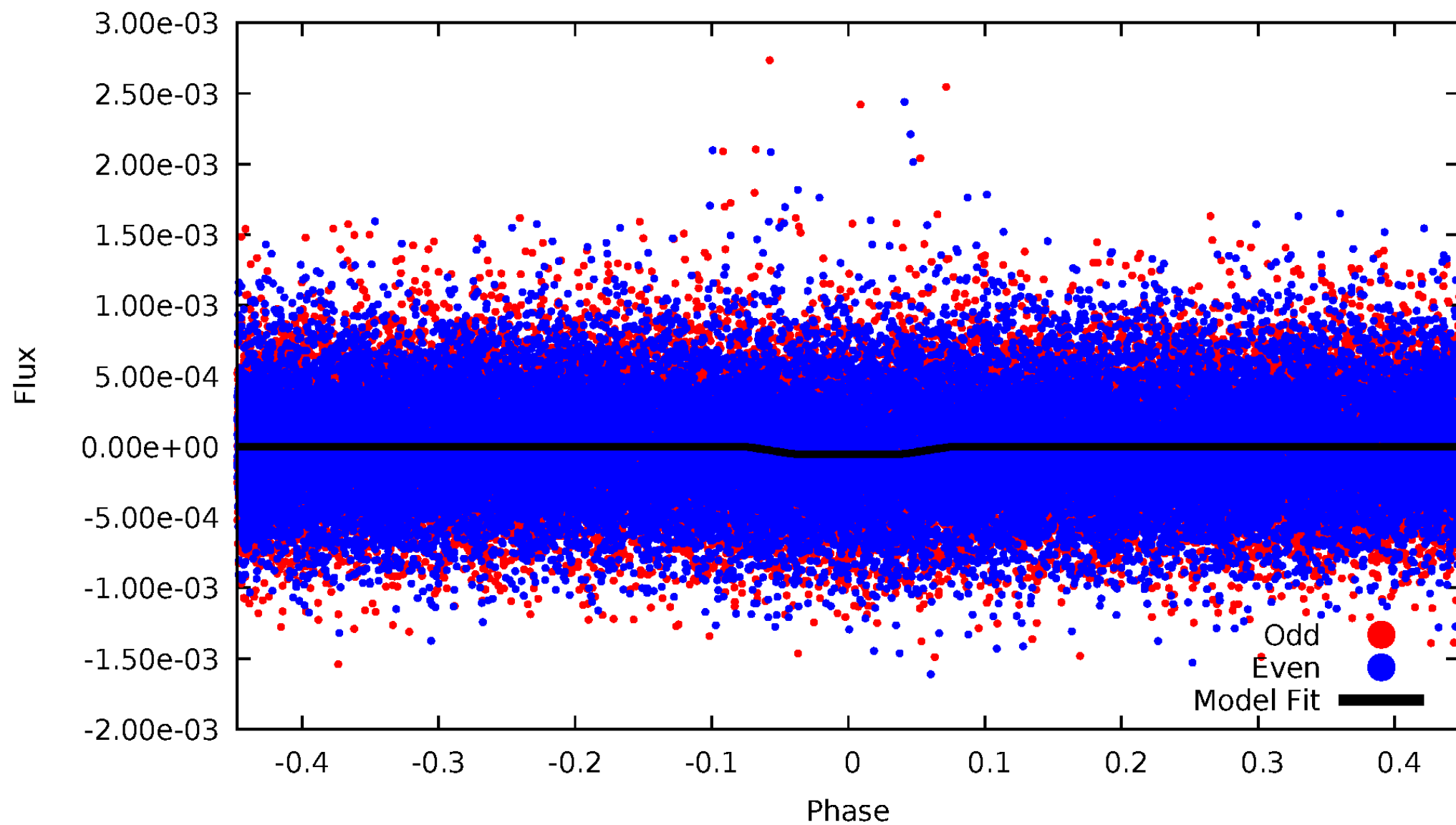
DV Odd/Even

TCE 007117413-01

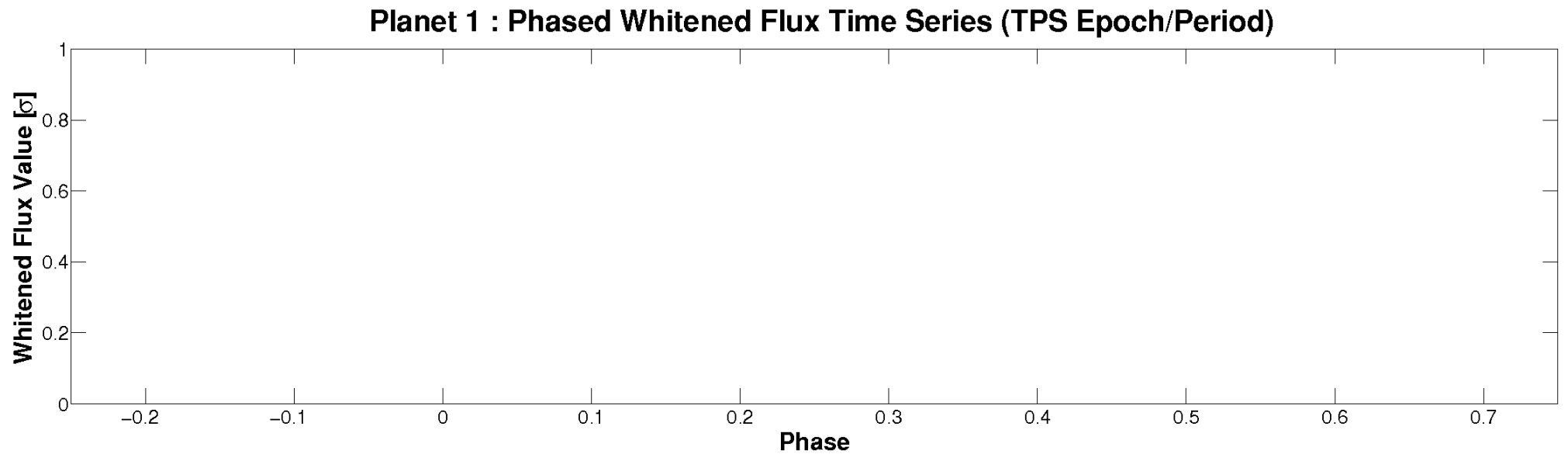
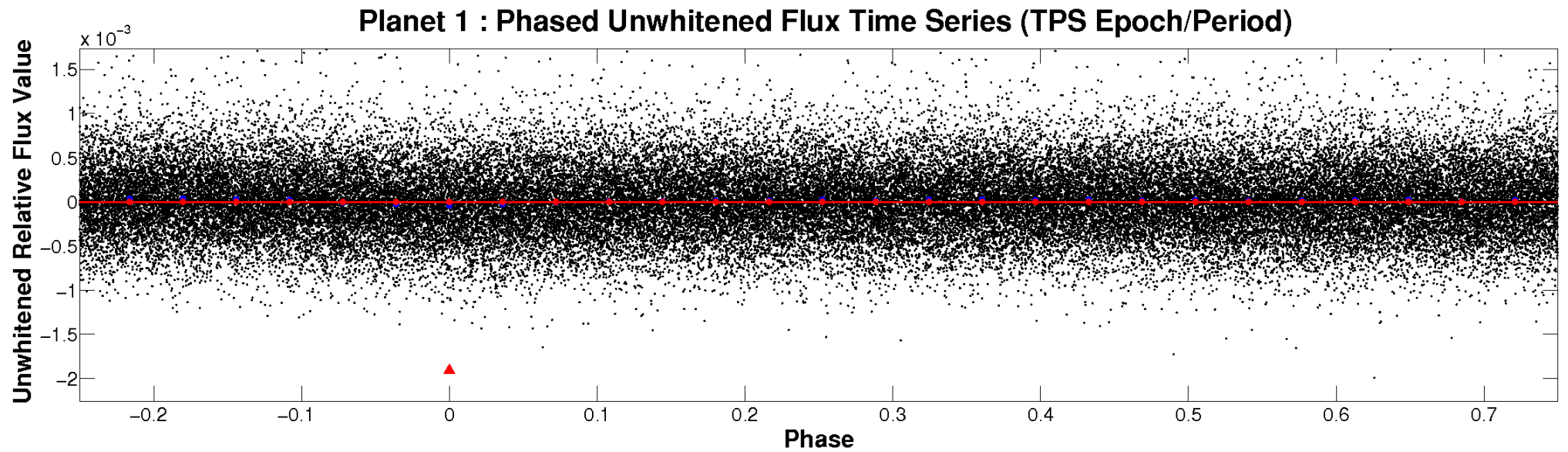


ALT Odd/Even

TCE 007117413-01

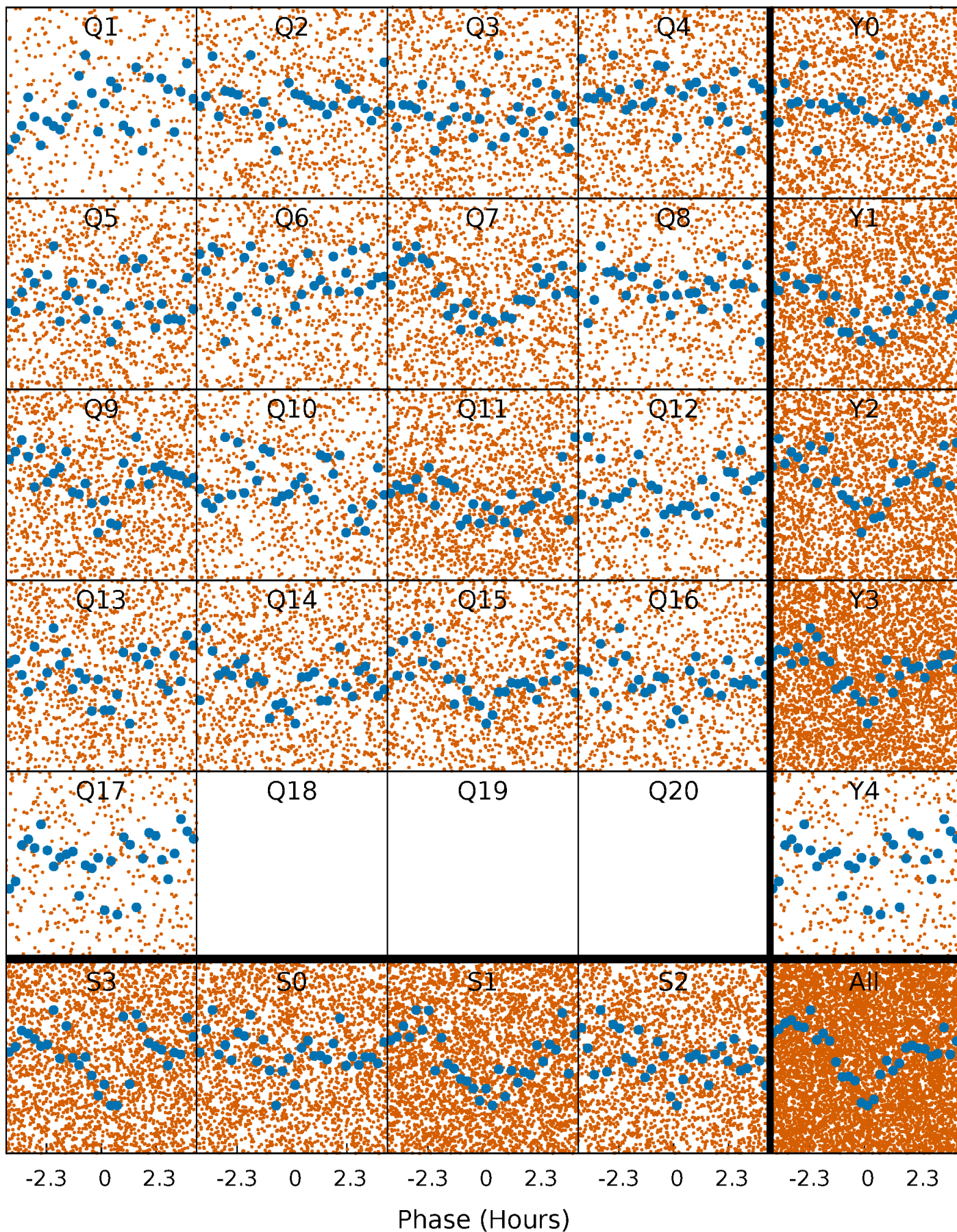


Non-Whitened Vs. Whitened Light Curve



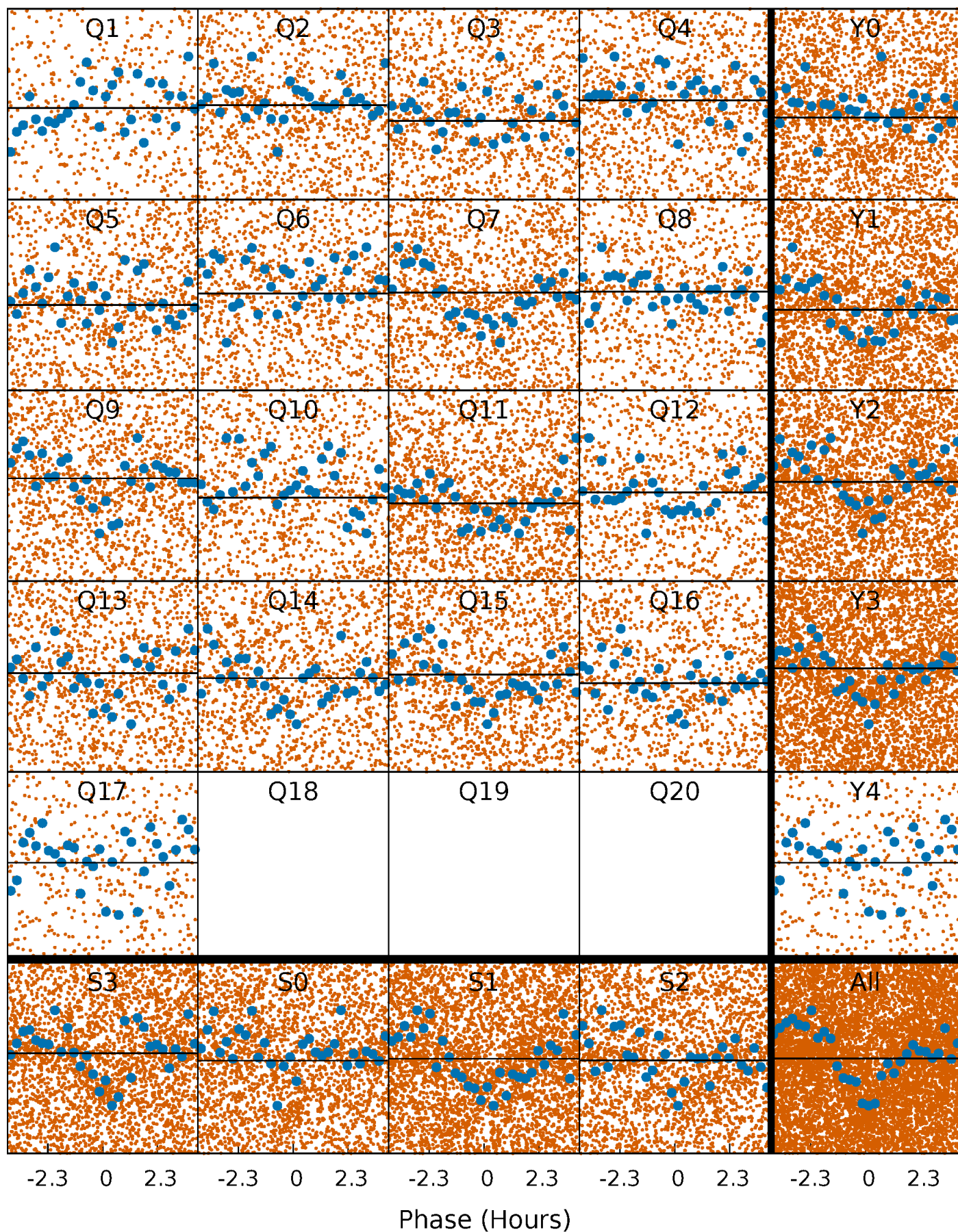
PDC Quarter-Phased Transit Curves

TCE 007117413-01 P= 0.566795 Days $T_0=131.813277$ (BKJD)



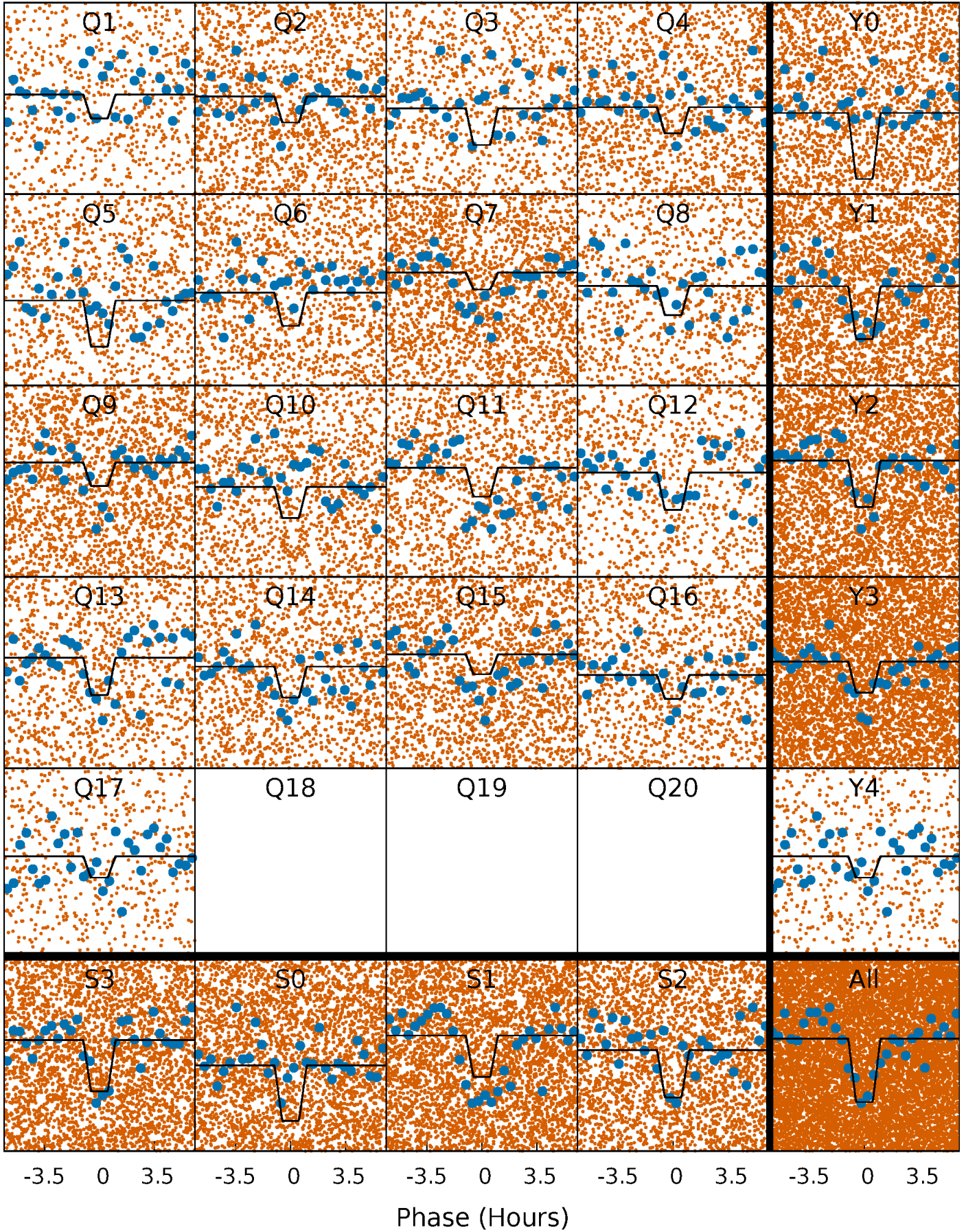
DV Quarter-Phased Transit Curves

TCE 007117413-01 P= 0.566795 Days $T_0=131.813277$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

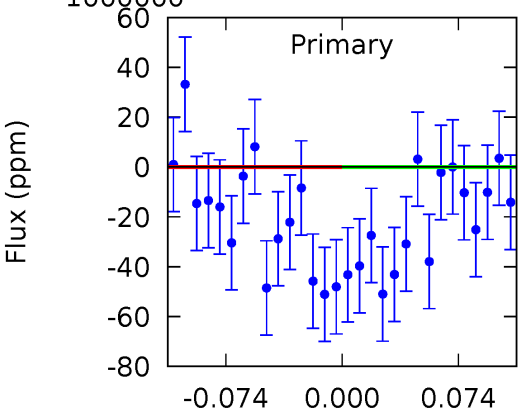
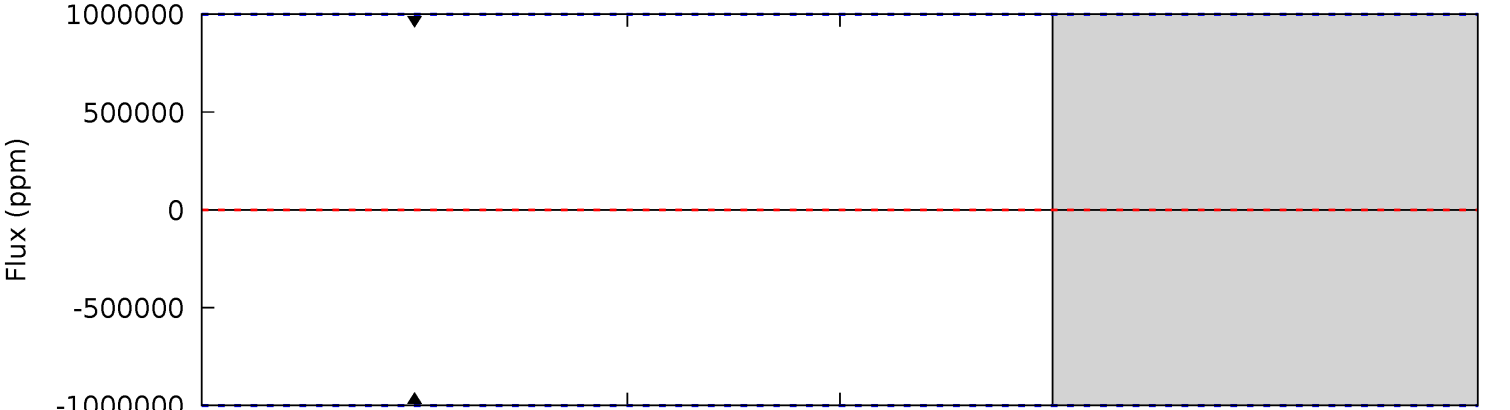
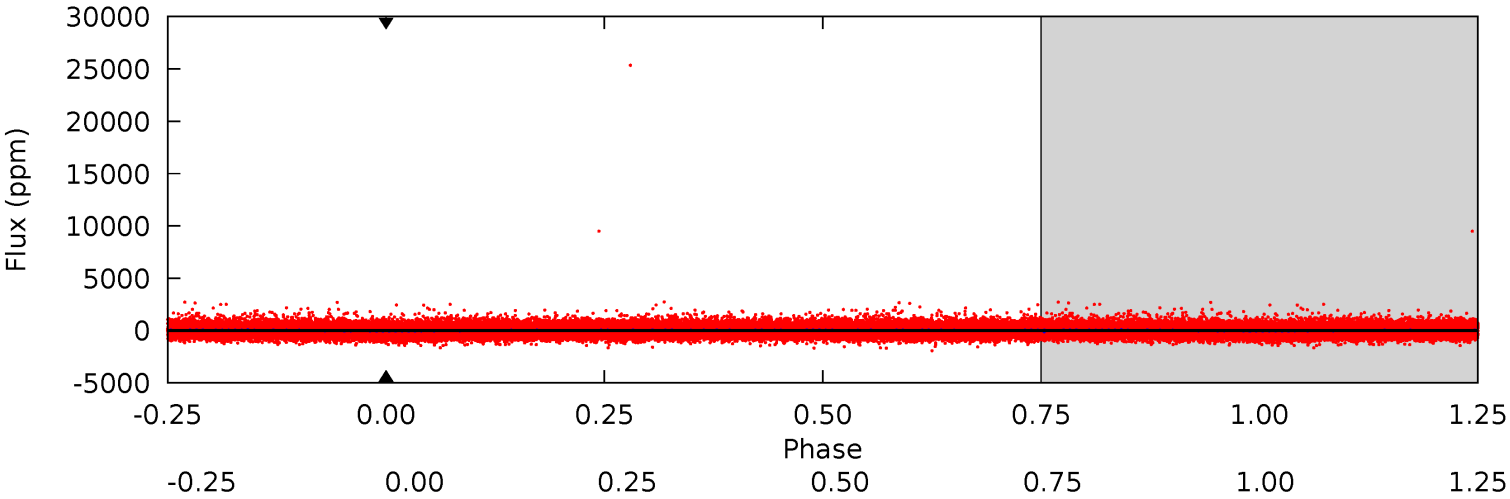
TCE 007117413-01 P= 0.566795 Days $T_0=131.814950$ (BKJD)



DV Model-Shift Uniqueness Test

007117413-01, P = 0.566795 Days, E = 131.246482 Days

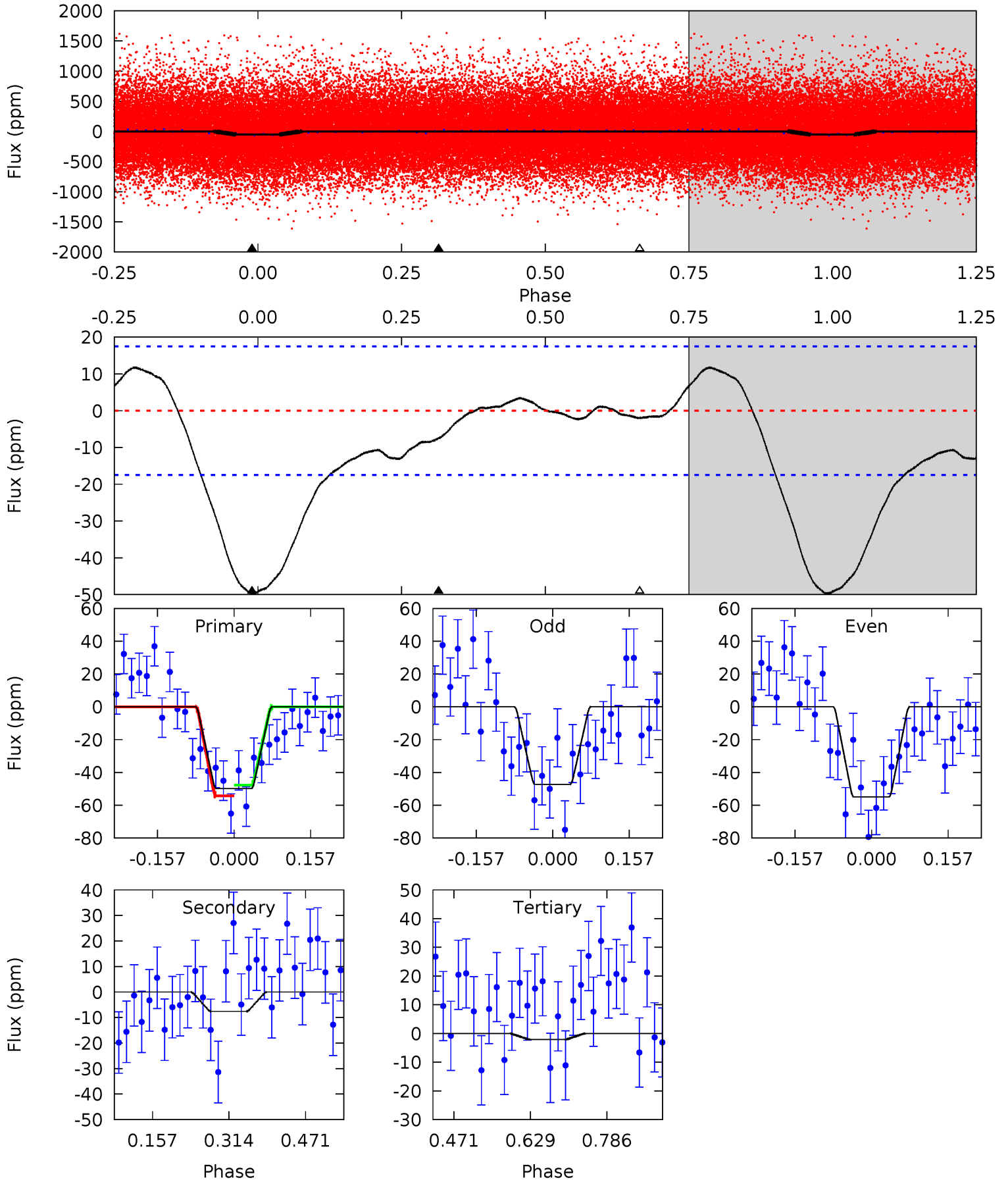
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007117413-01, P = 0.566795 Days, E = 131.248155 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.7	1.94	0.53	0	4.47	1.41	1.36	12.2	12.7	1.42	1.94	0.99	0.94	0.19	0.84



Stellar Parameters For KIC 007117413

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5598^{+152}_{-169}	$4.565^{+0.030}_{-0.170}$	$-0.100^{+0.300}_{-0.300}$	$0.830^{+0.207}_{-0.069}$	$0.928^{+0.083}_{-0.115}$	$2.285^{+0.391}_{-1.072}$
	+3%/-3%	+1%/-4%	+300%/-300%	+25%/-8%	+9%/-12%	+17%/-47%
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 007117413-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$7.29^{+7.65}_{-5.15}$	2820^{+166}_{-121}	4499^{+14481}_{-22756}	$4.278^{+316.740}_{-321.243}$
Alt.	-8 ± 4	$6.83^{+7.16}_{-4.87}$	2809^{+157}_{-112}	-2928^{+236}_{-110}	$0.013^{+0.138}_{-0.010}$

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 $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

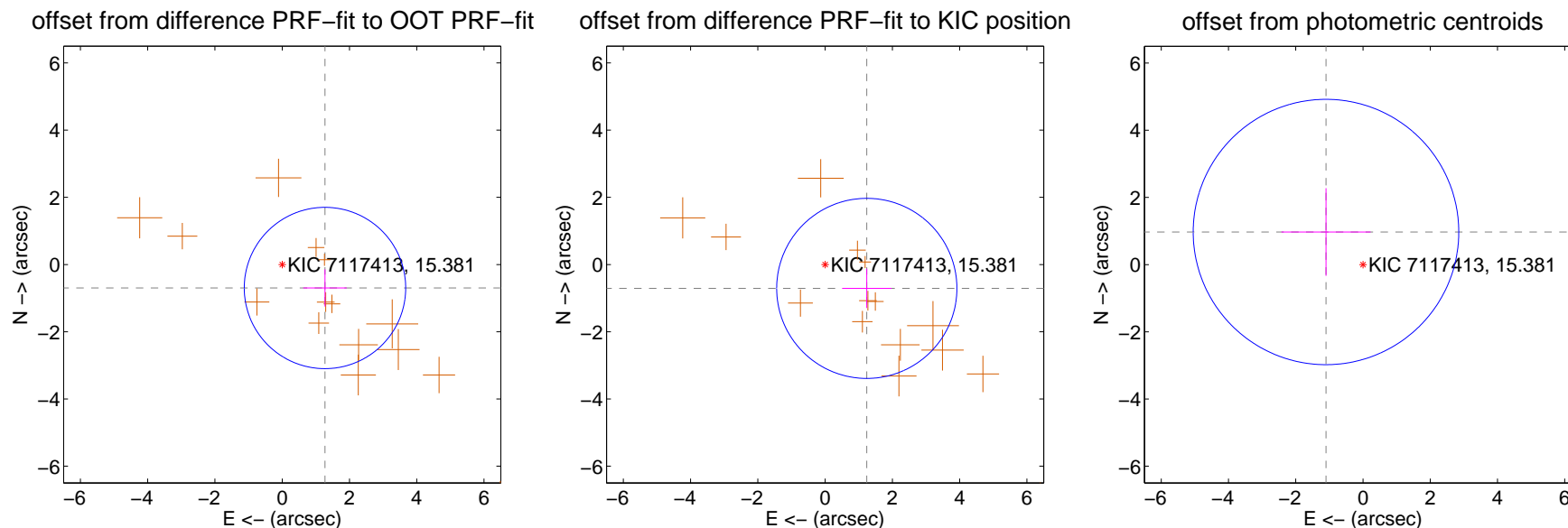
DV Centroid Data

Supplemental centroid analysis for 007117413-01. Kepler magnitude: 15.38. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

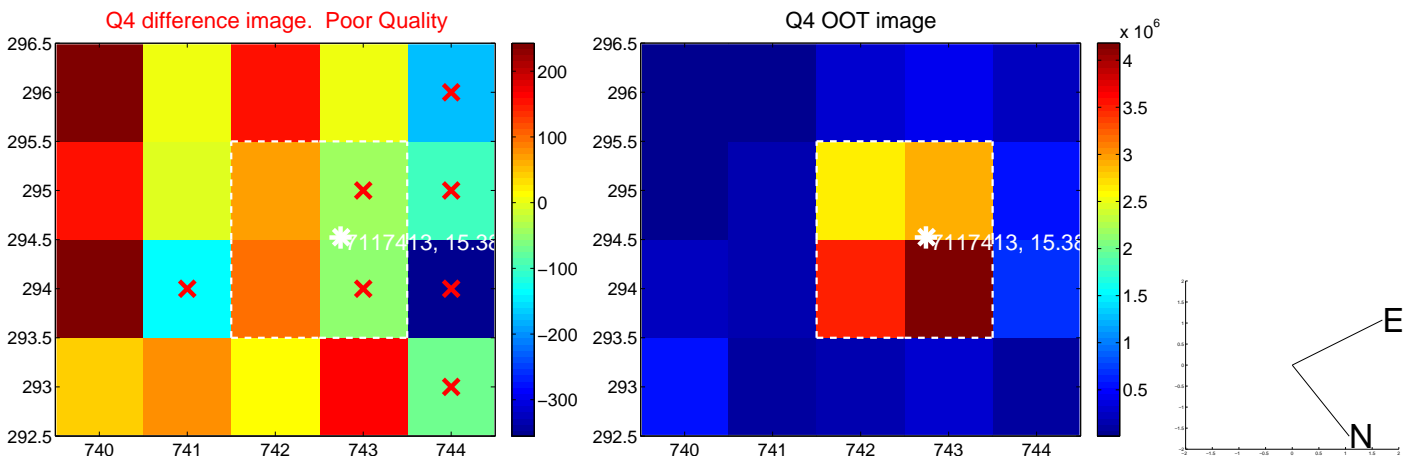
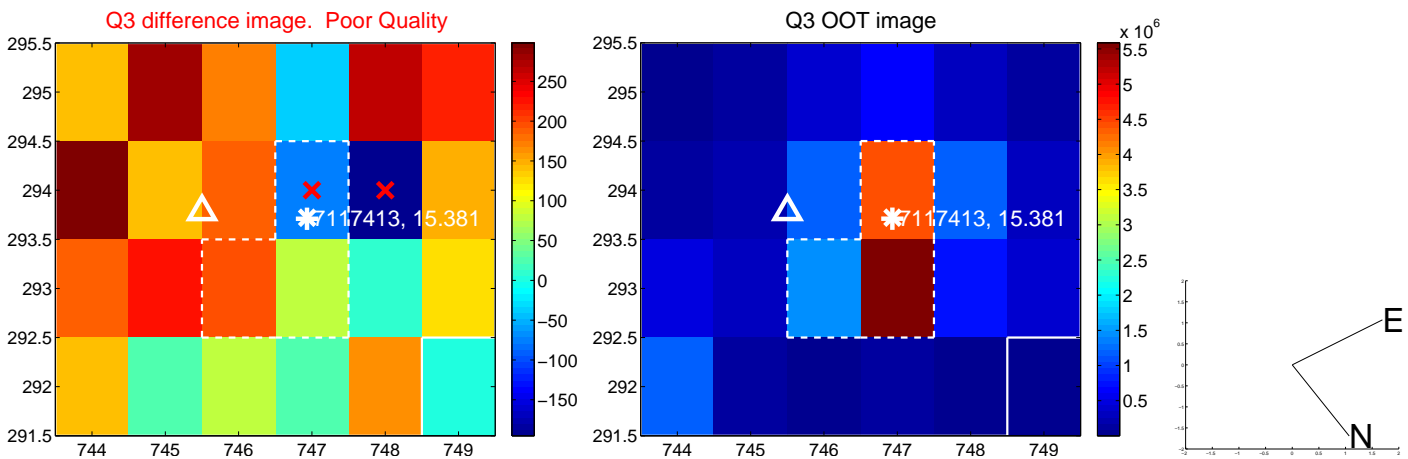
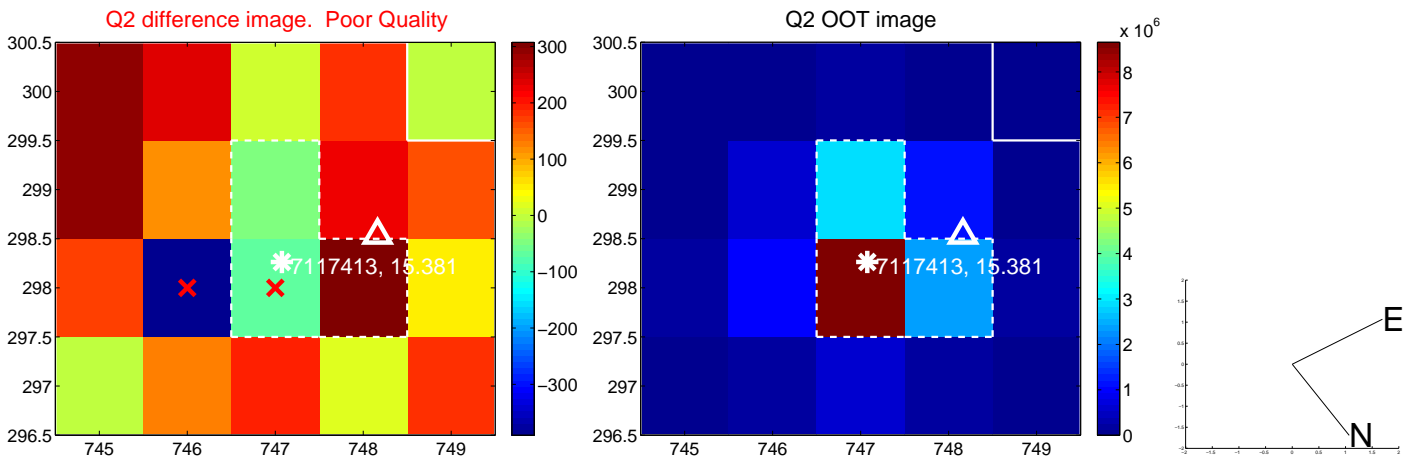
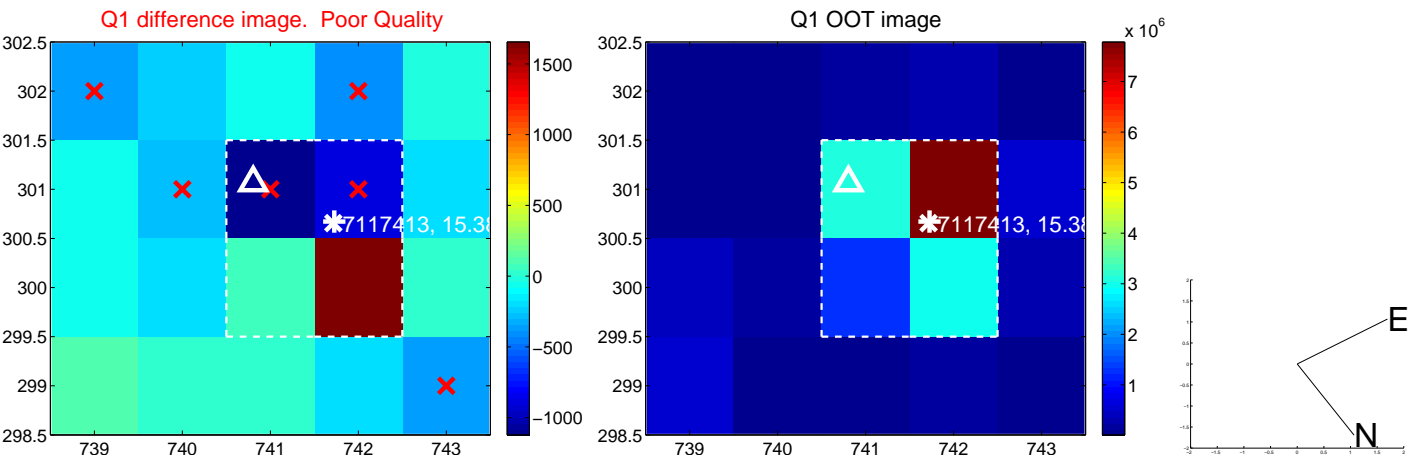
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.450 ± 0.800	1.81	-1.271 ± 0.647	-0.698 ± 0.554
PRF-fit source offset from KIC position	1.428 ± 0.893	1.60	-1.239 ± 0.733	-0.709 ± 0.585
photometric centroid source offset	1.47 ± 1.32	1.11	1.10 ± 1.33	0.97 ± 1.30

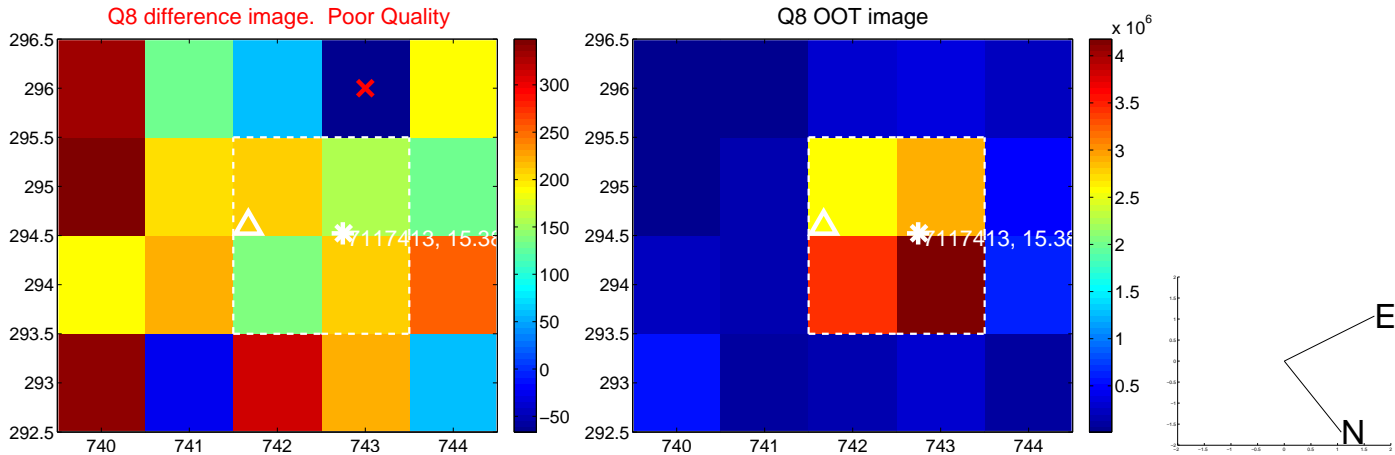
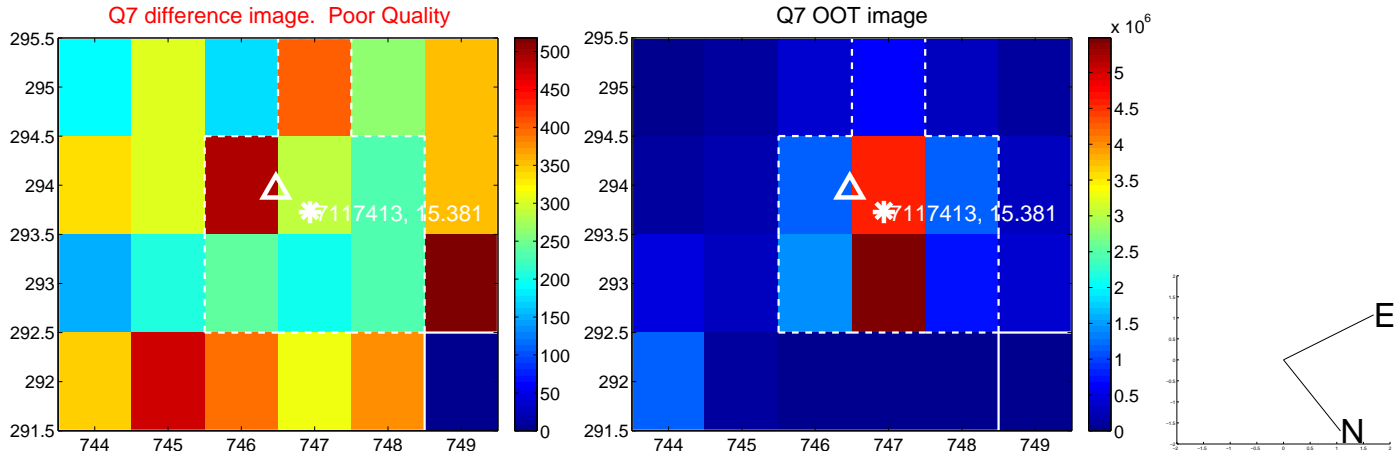
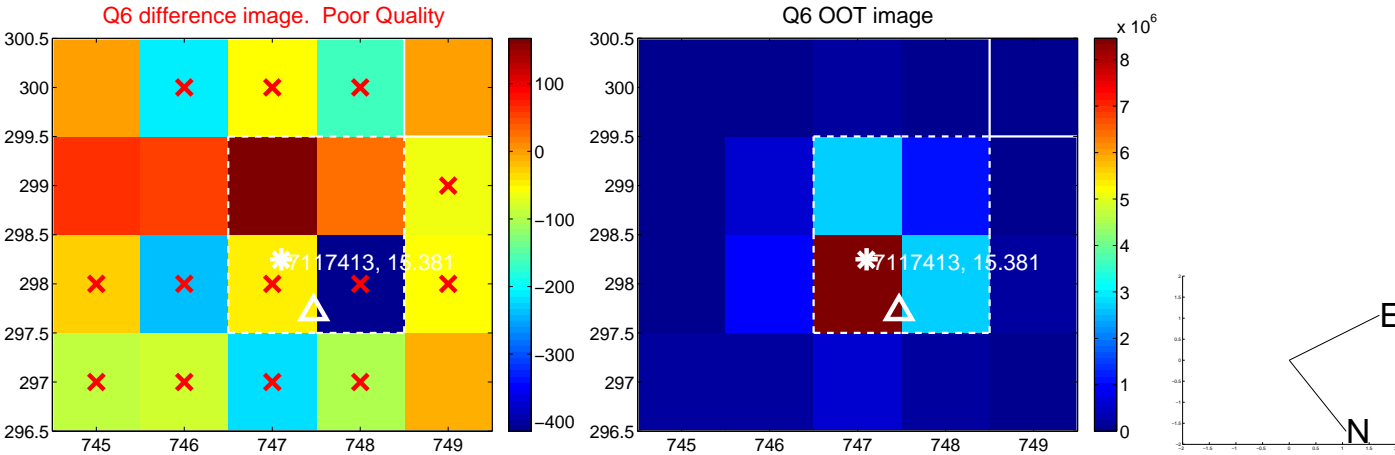
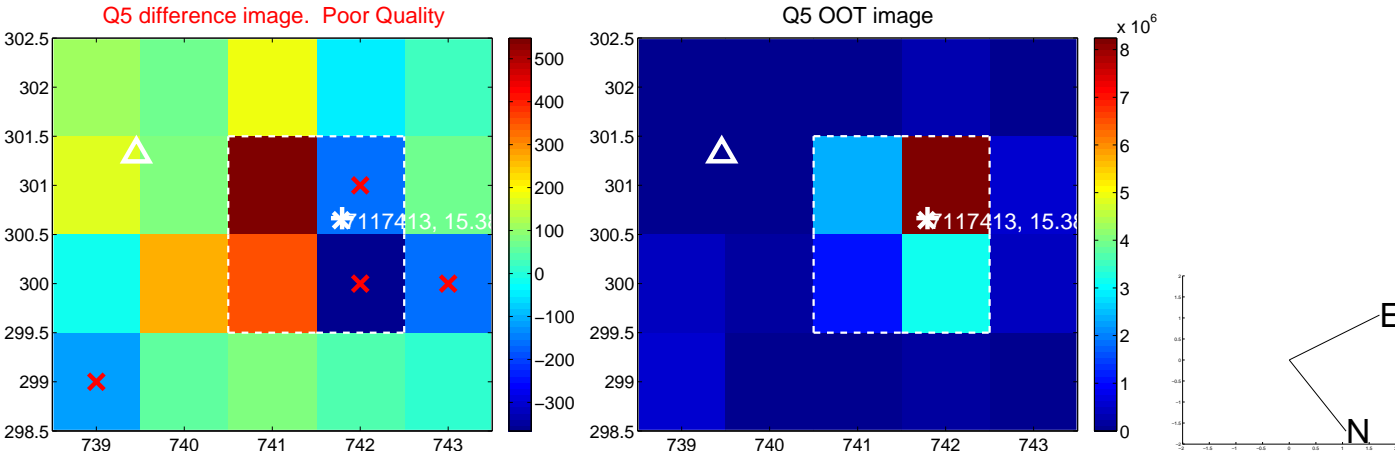


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

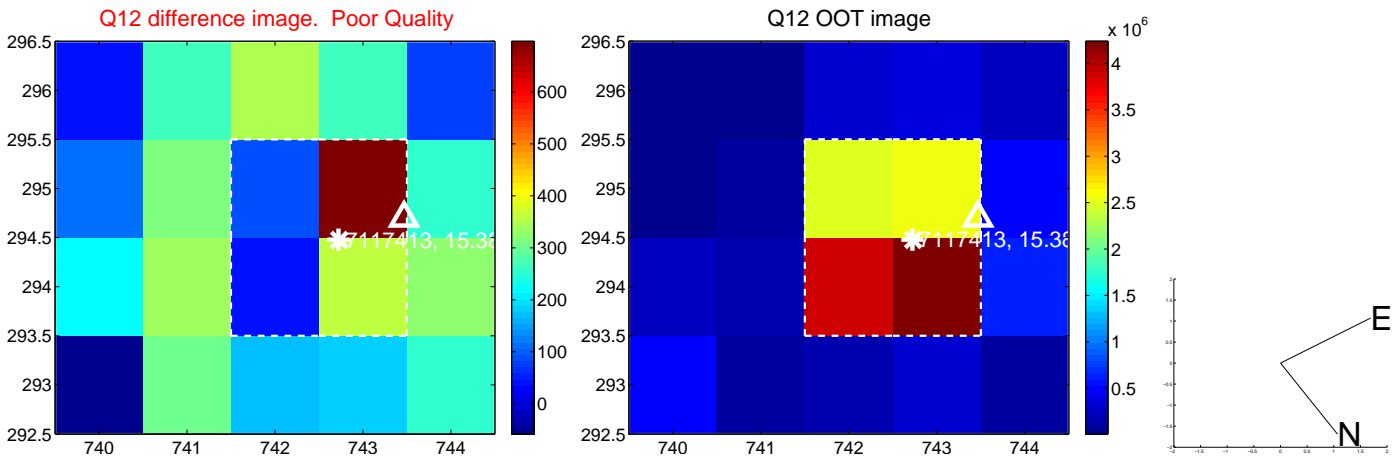
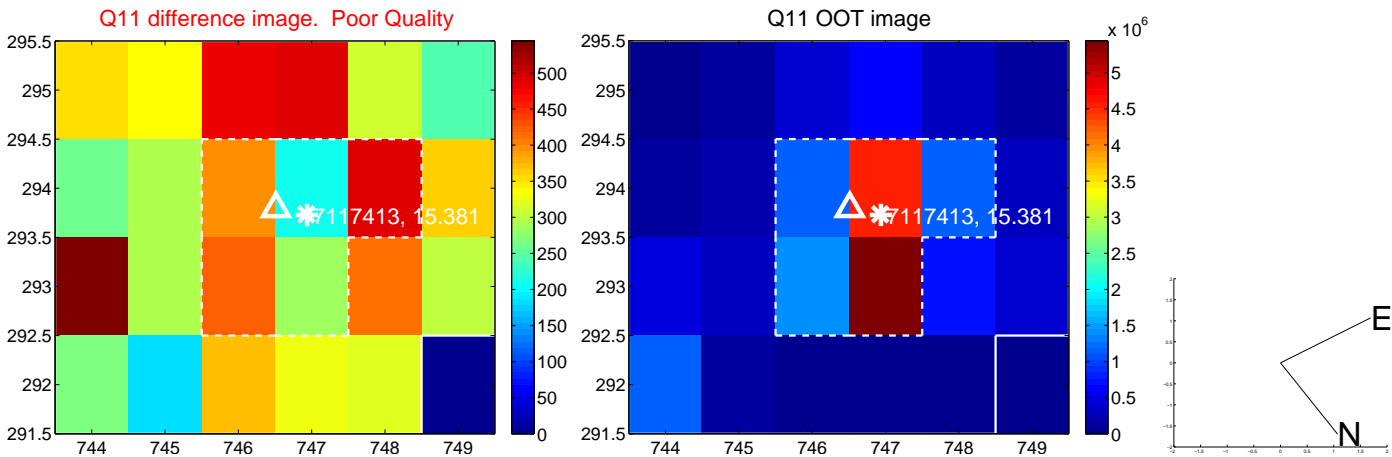
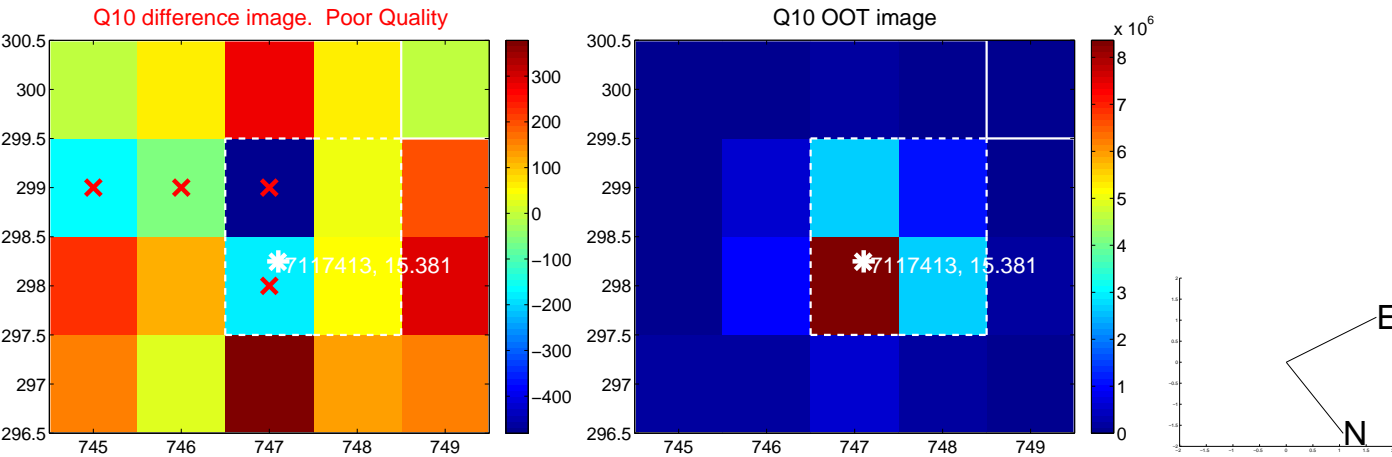
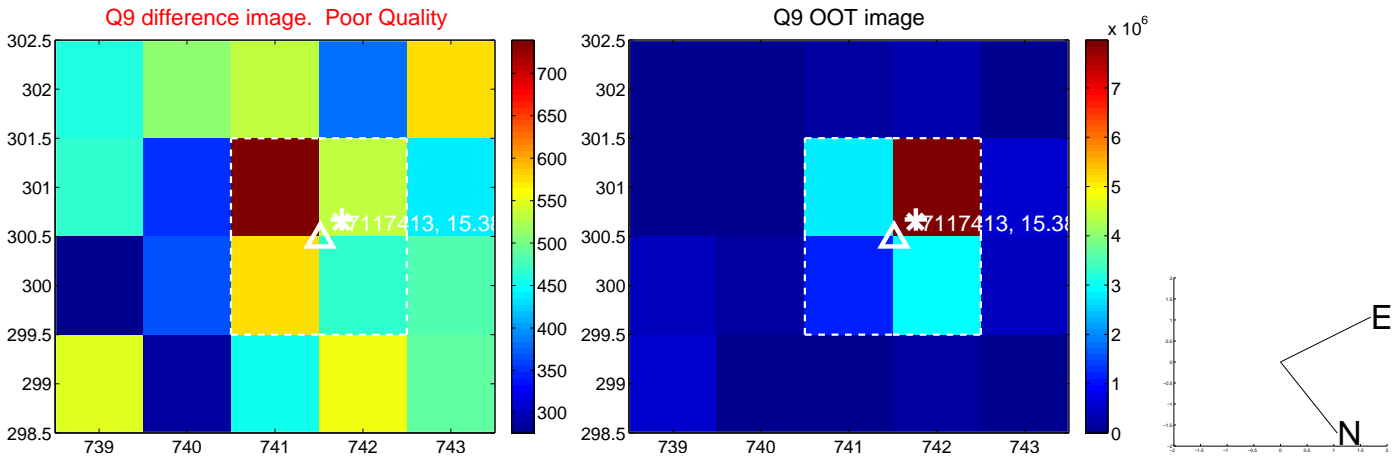
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



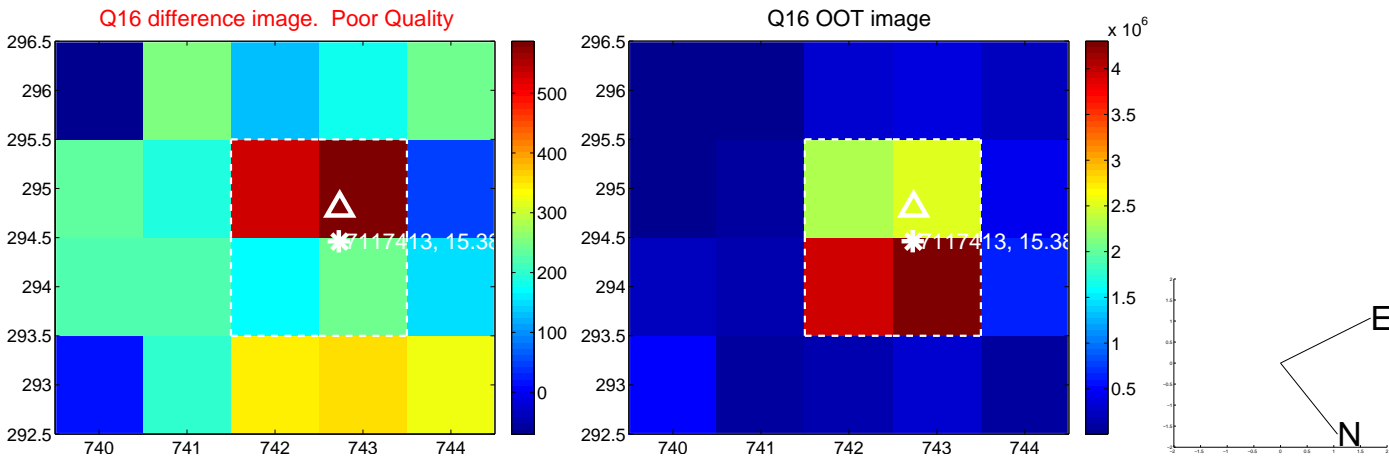
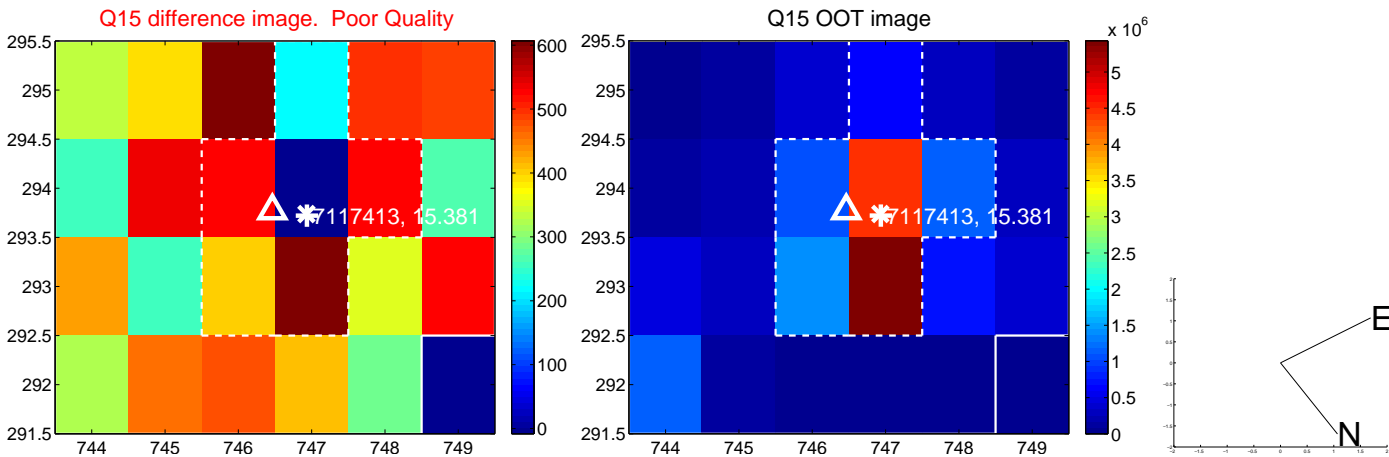
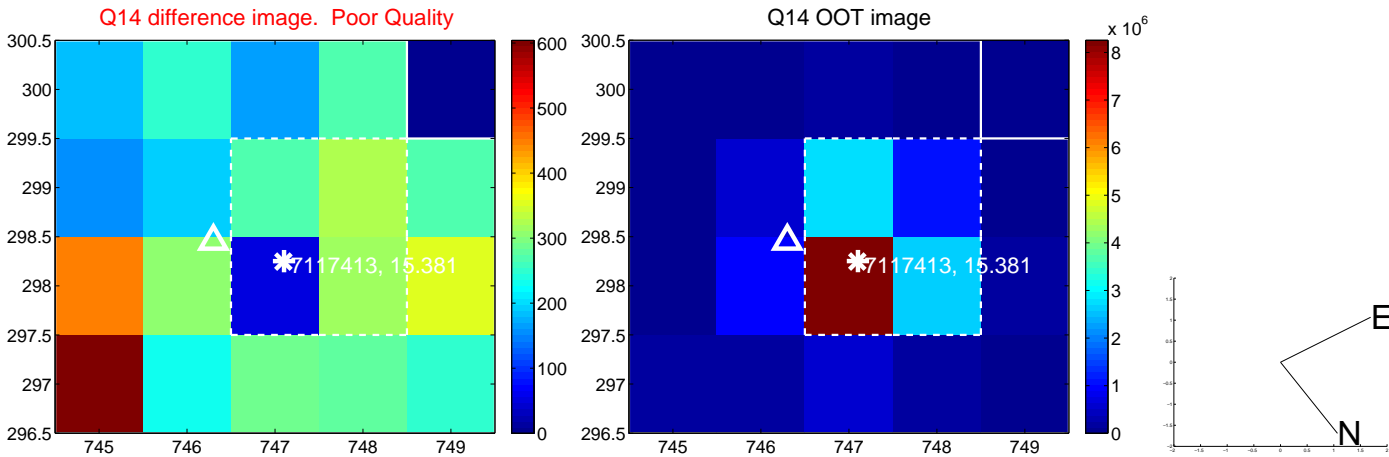
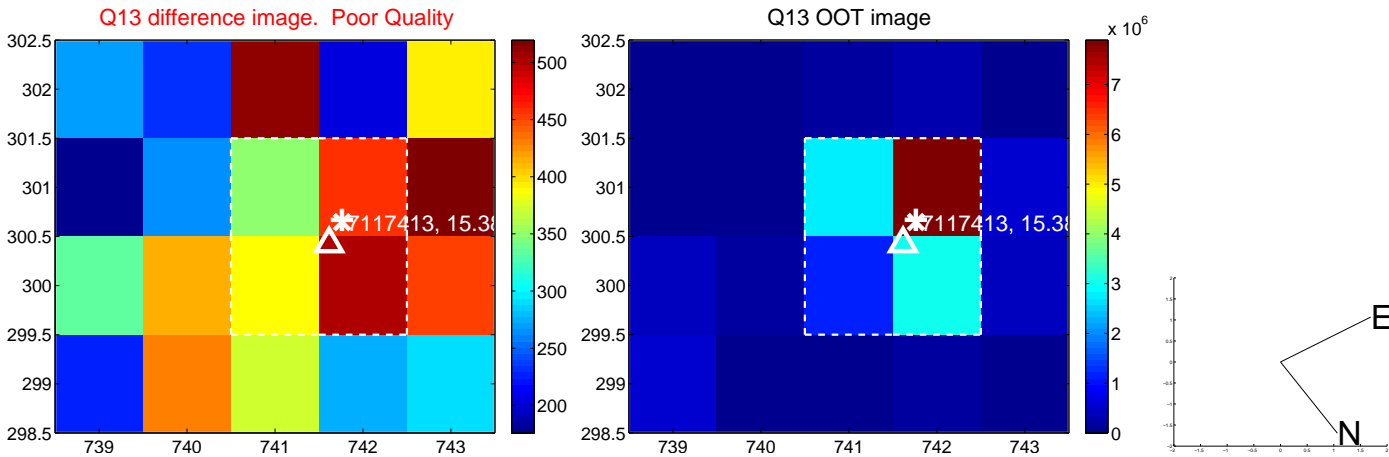
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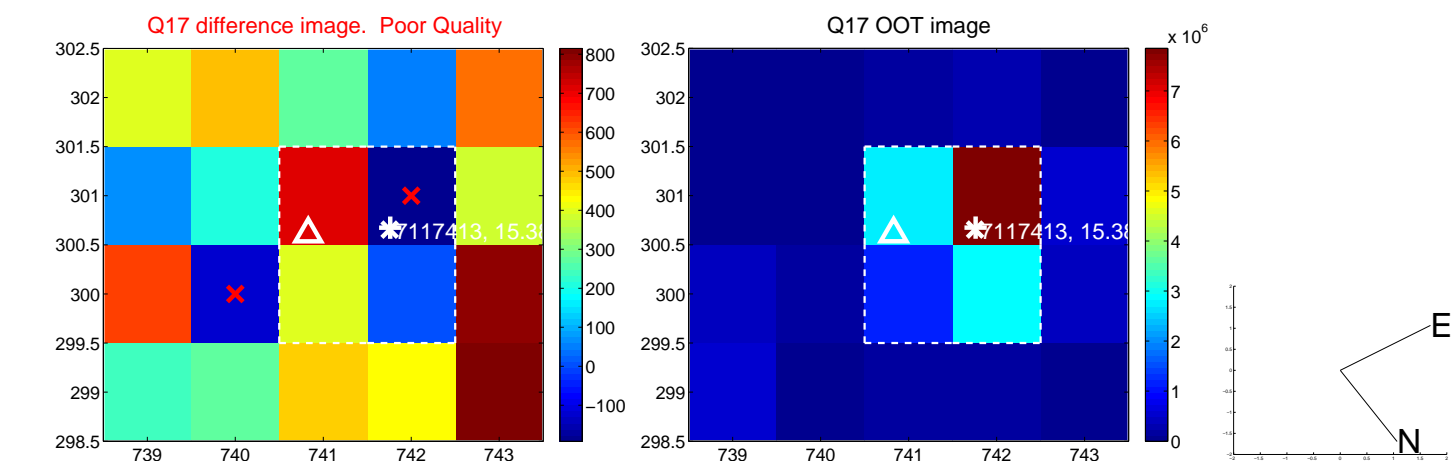
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



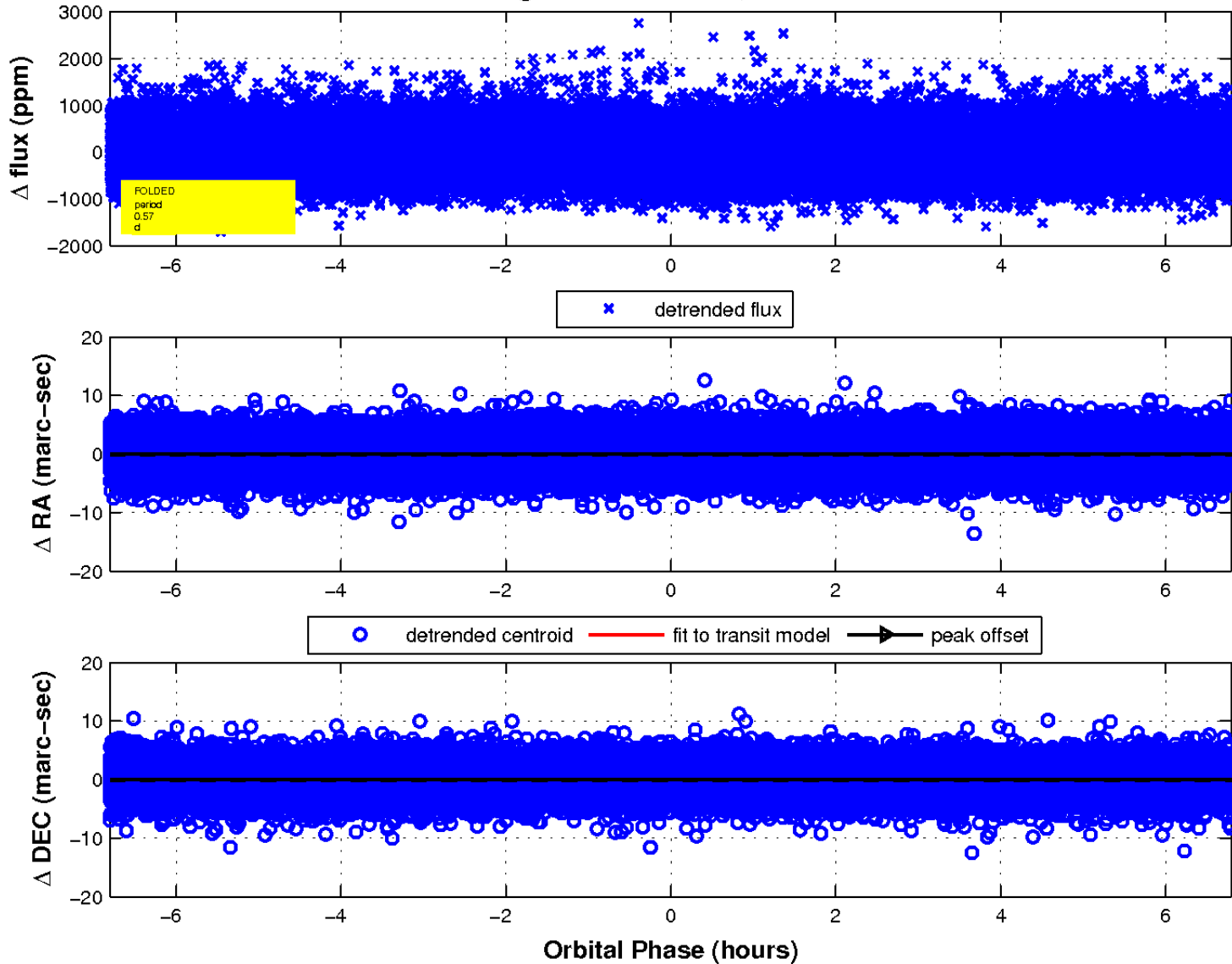
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

