

KIC 006763633

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})
006763633-01	OBS	No	3.173456	132.746094	16.5	22.577	8.0	6.6	7.38	5210	3.16	12963.13

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006763633-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED

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

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

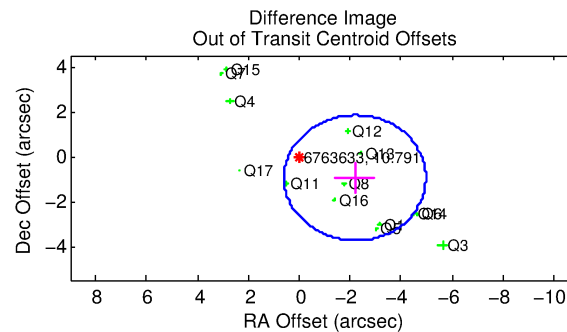
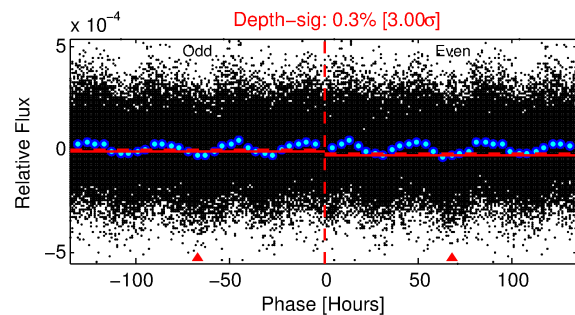
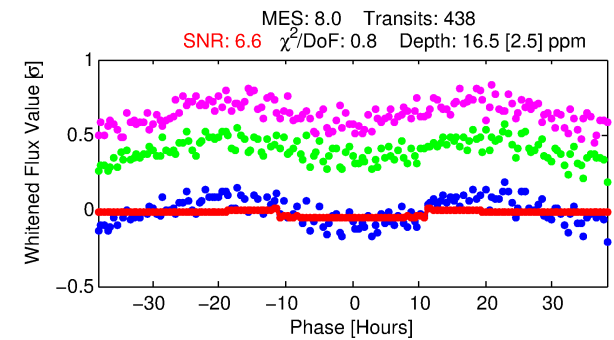
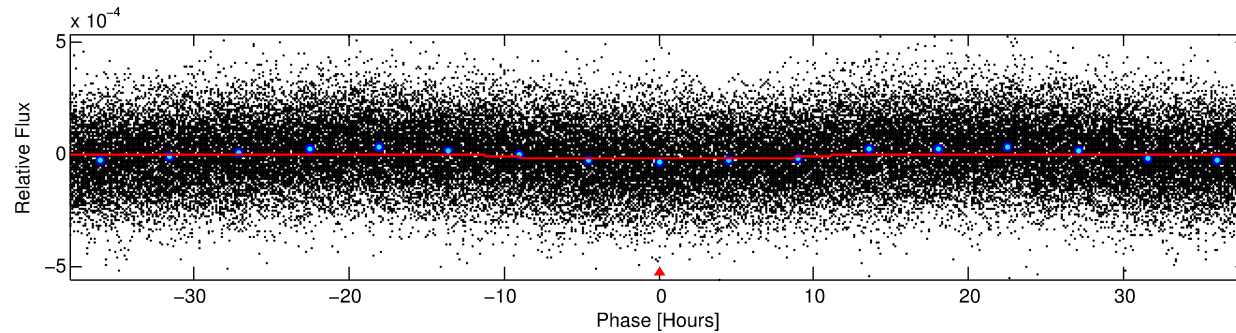
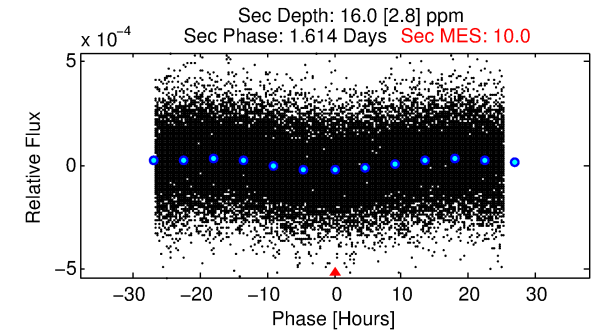
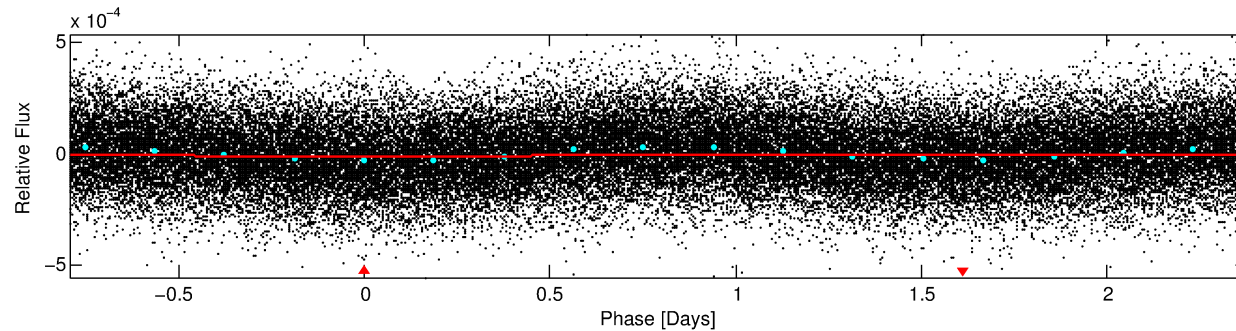
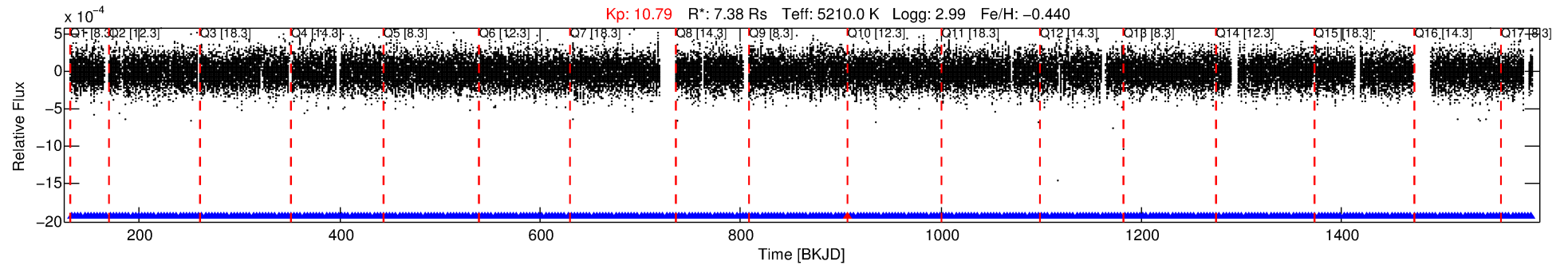
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006763633-01

No Significant Match Found

DV One-Page Summary

KIC: 6763633 Candidate: 1 of 1 Period: 3.173 d



DV Fit Results:

Period = 3.17346 [0.00005] d
Epoch = 132.7461 [0.0083] BKJD
Rp/R* = 0.0039 [0.0017]
a/R* = 1.15 [0.50]
b = 0.66 [1.50]
Seff = 12963.13 [3120.67]
Teq = 2721 [164] K
Rp = 3.16 [1.59] Re
a = 0.0526 [0.0096] AU
Ag = 2.45 [2.17] [0.67σ]
Teffp = 5264 [1157] K [2.18σ]

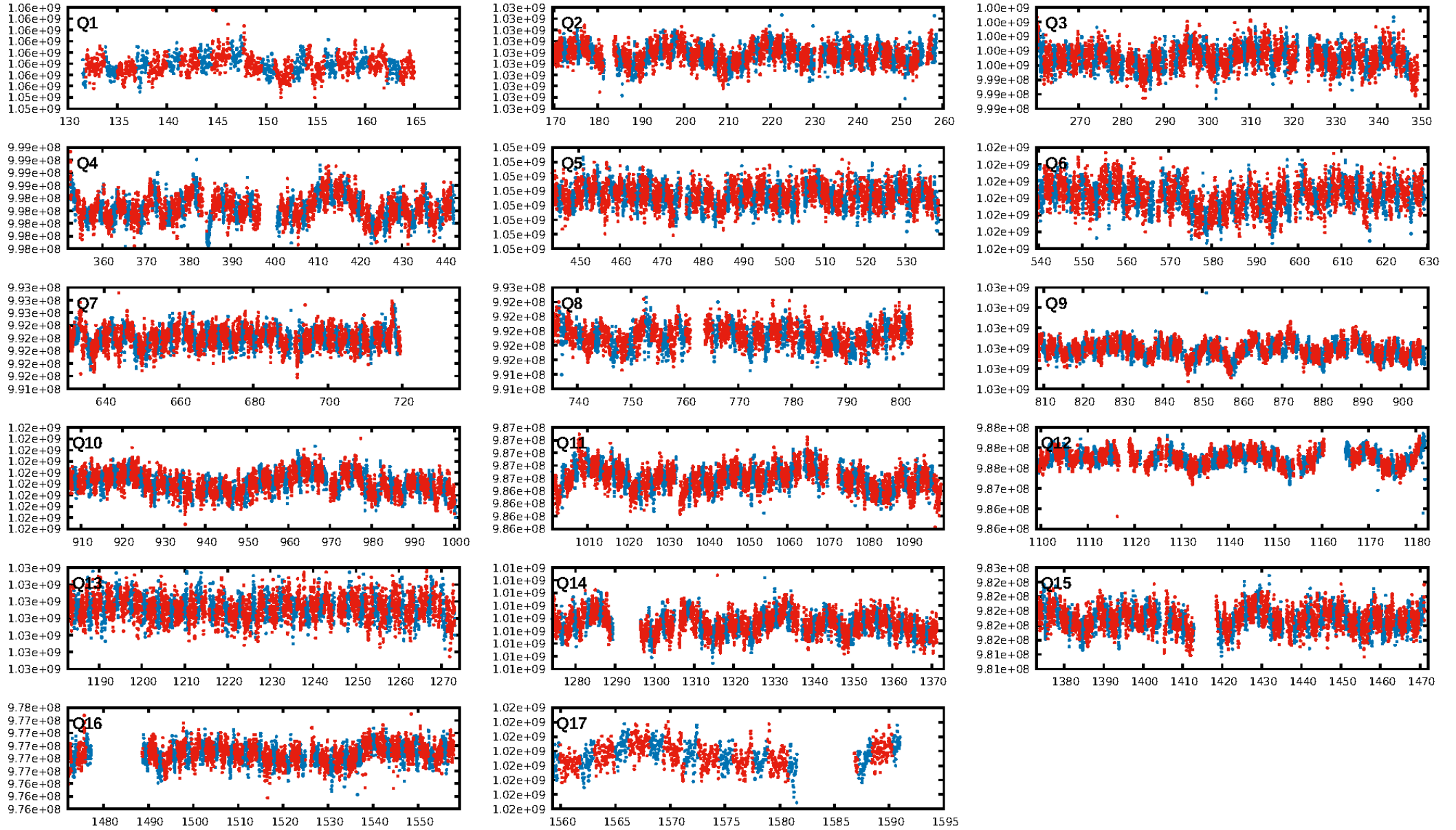
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [418/419]
GhostDiagnostic-chr: 5.814
Centroid-sig: 2.5%
Centroid-so: 1.293 arcsec [2.34σ]
OotOffset-rm: 2.393 arcsec [2.57σ]
KicOffset-rm: 2.346 arcsec [2.60σ]
OotOffset-st: 2/4/4/4 [14]
KicOffset-st: 2/4/4/4 [14]
DiffImageQuality-fgm: 0.43 [6/14]
DiffImageOverlap-fno: 1.00 [17/17]

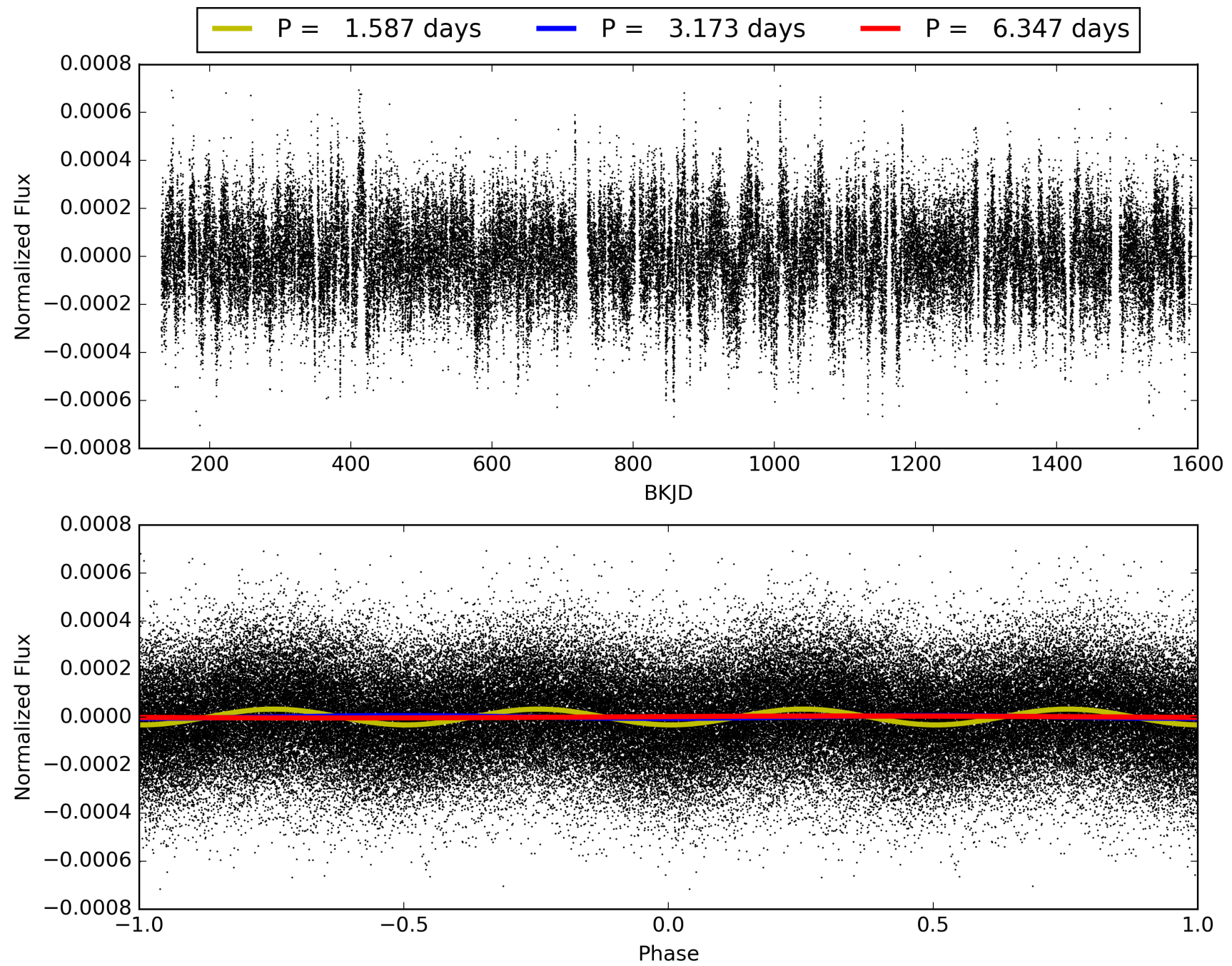
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 15:57:51 Z

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

TCE 006763633-01, PDC Light Curves

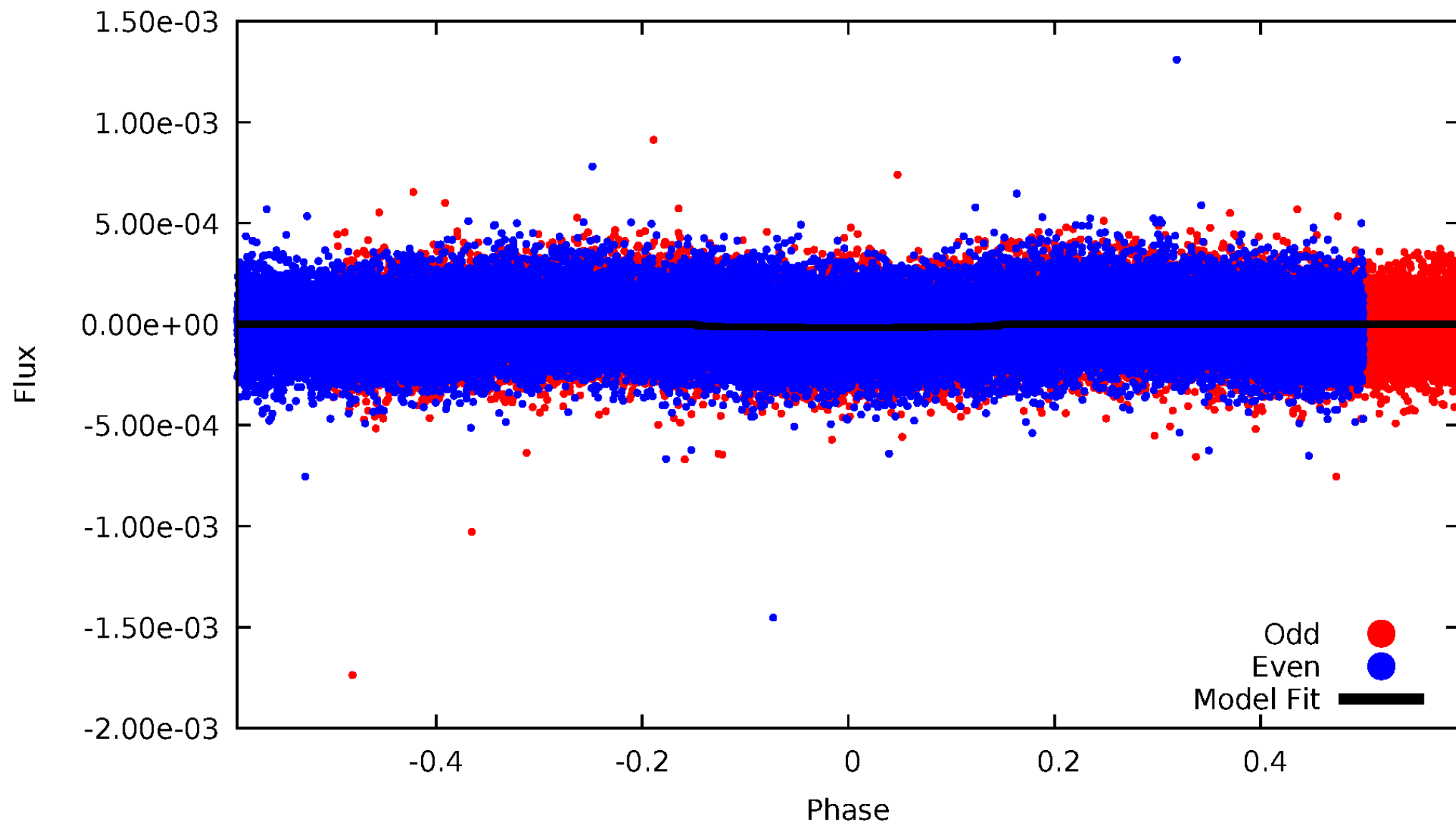


TCE 006763633-01



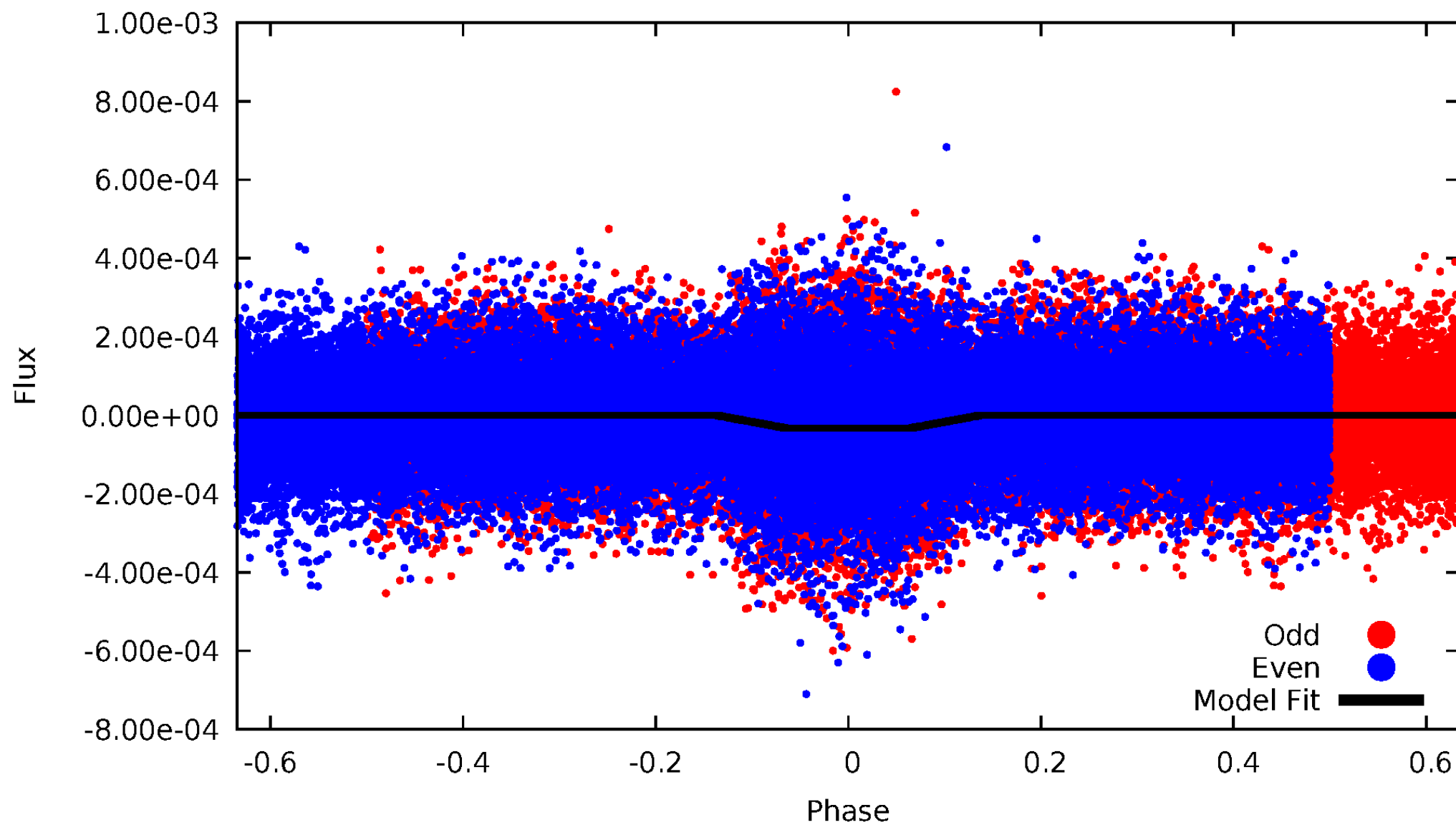
DV Odd/Even

TCE 006763633-01



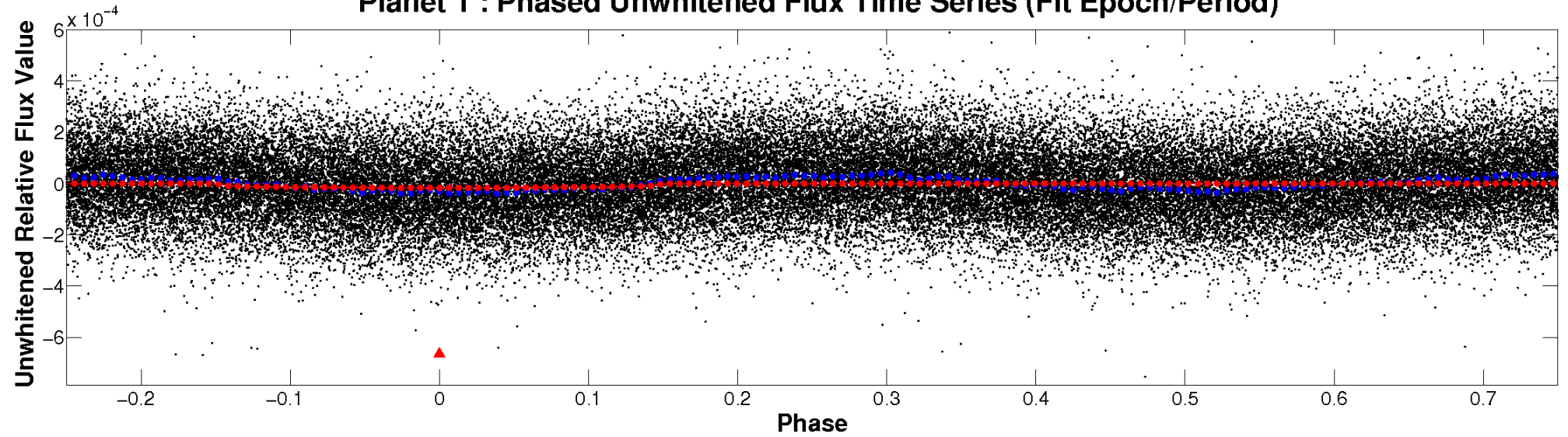
ALT Odd/Even

TCE 006763633-01

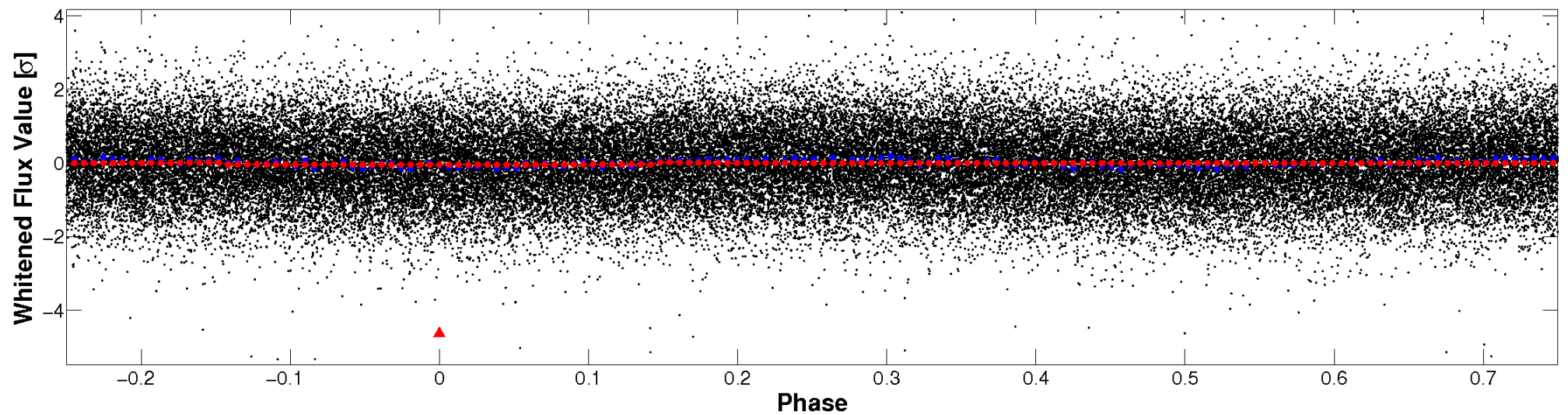


Non-Whitened Vs. Whitened Light Curve

Planet 1 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

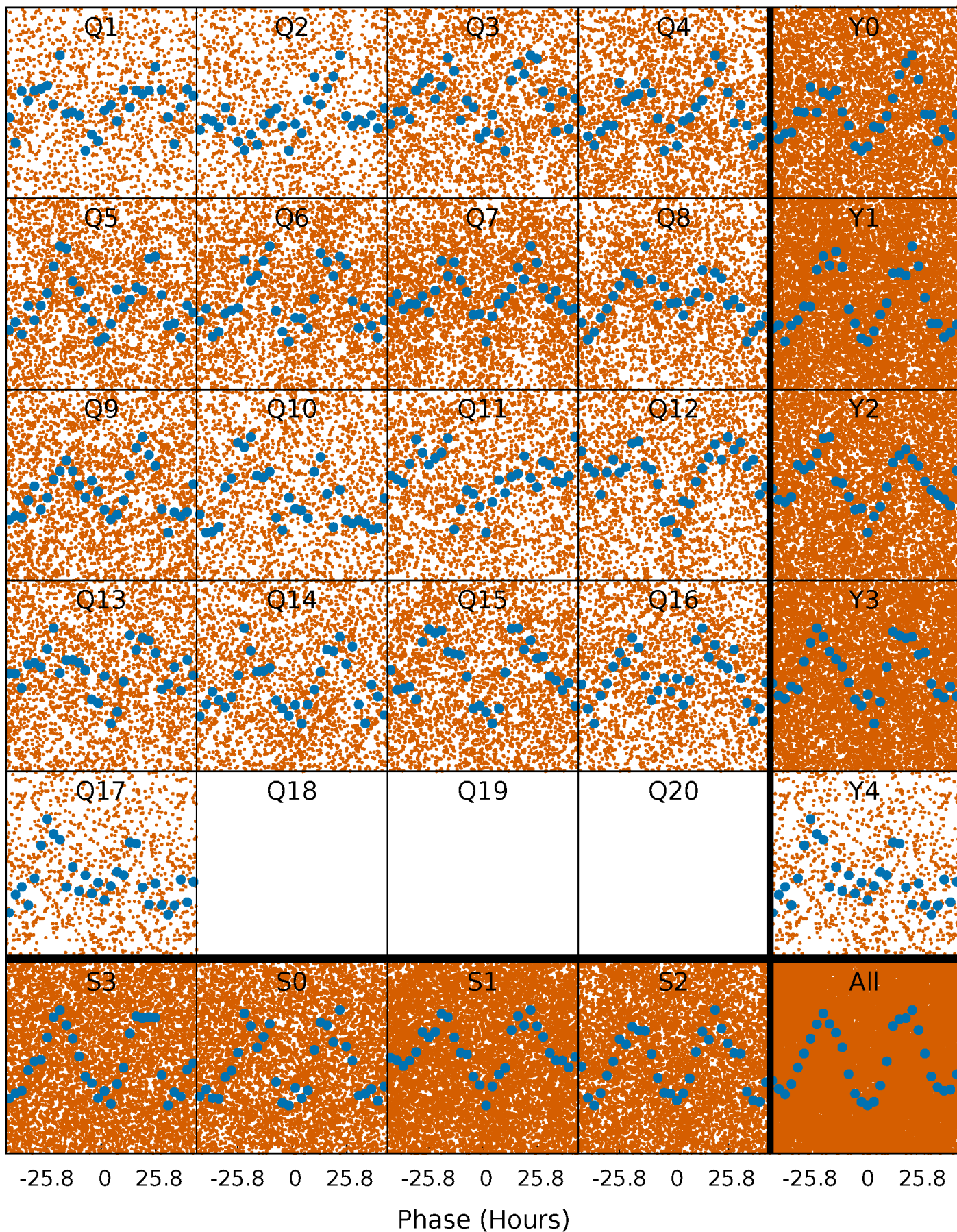


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



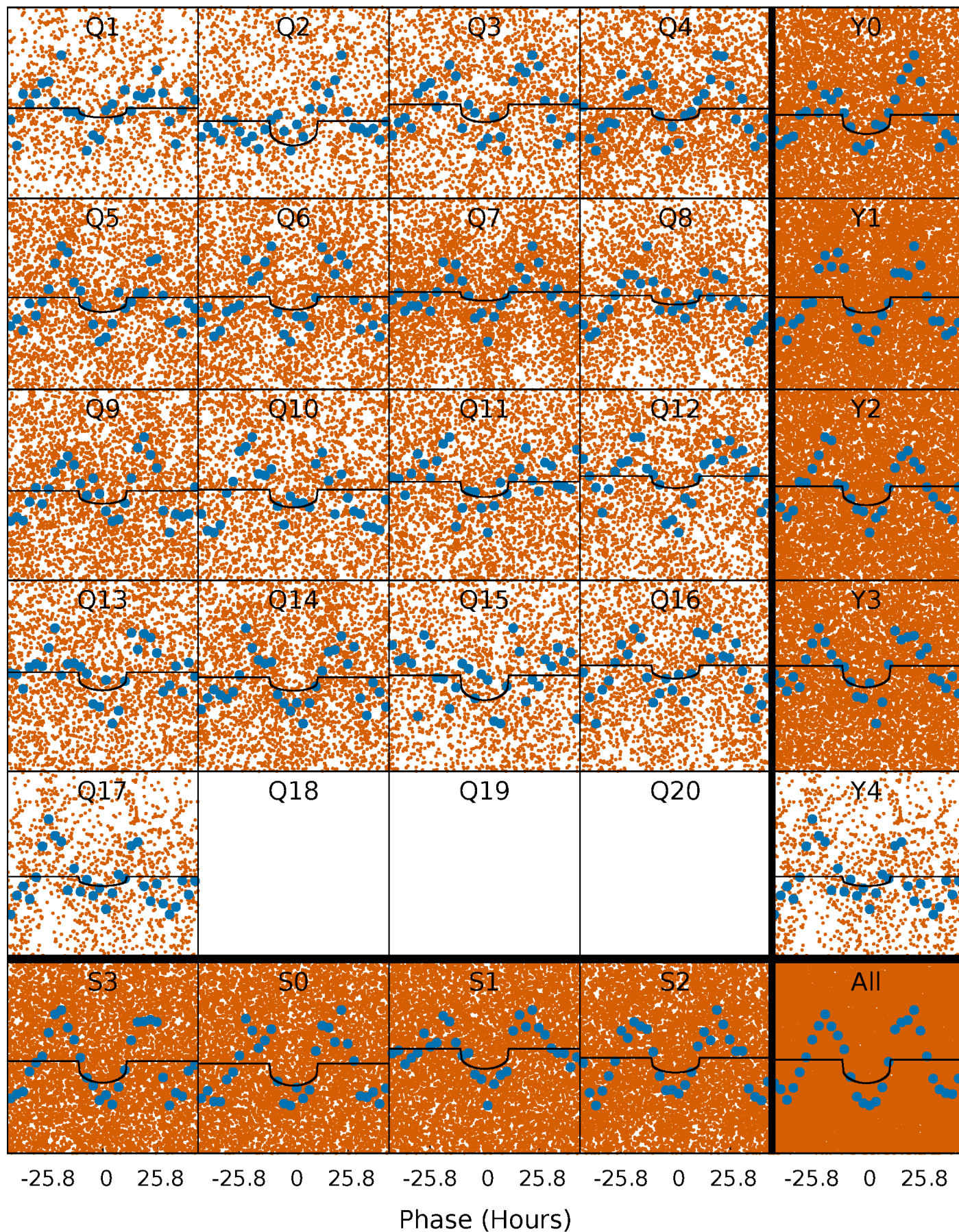
PDC Quarter-Phased Transit Curves

TCE 006763633-01 P= 3.173456 Days $T_0=132.746094$ (BKJD)



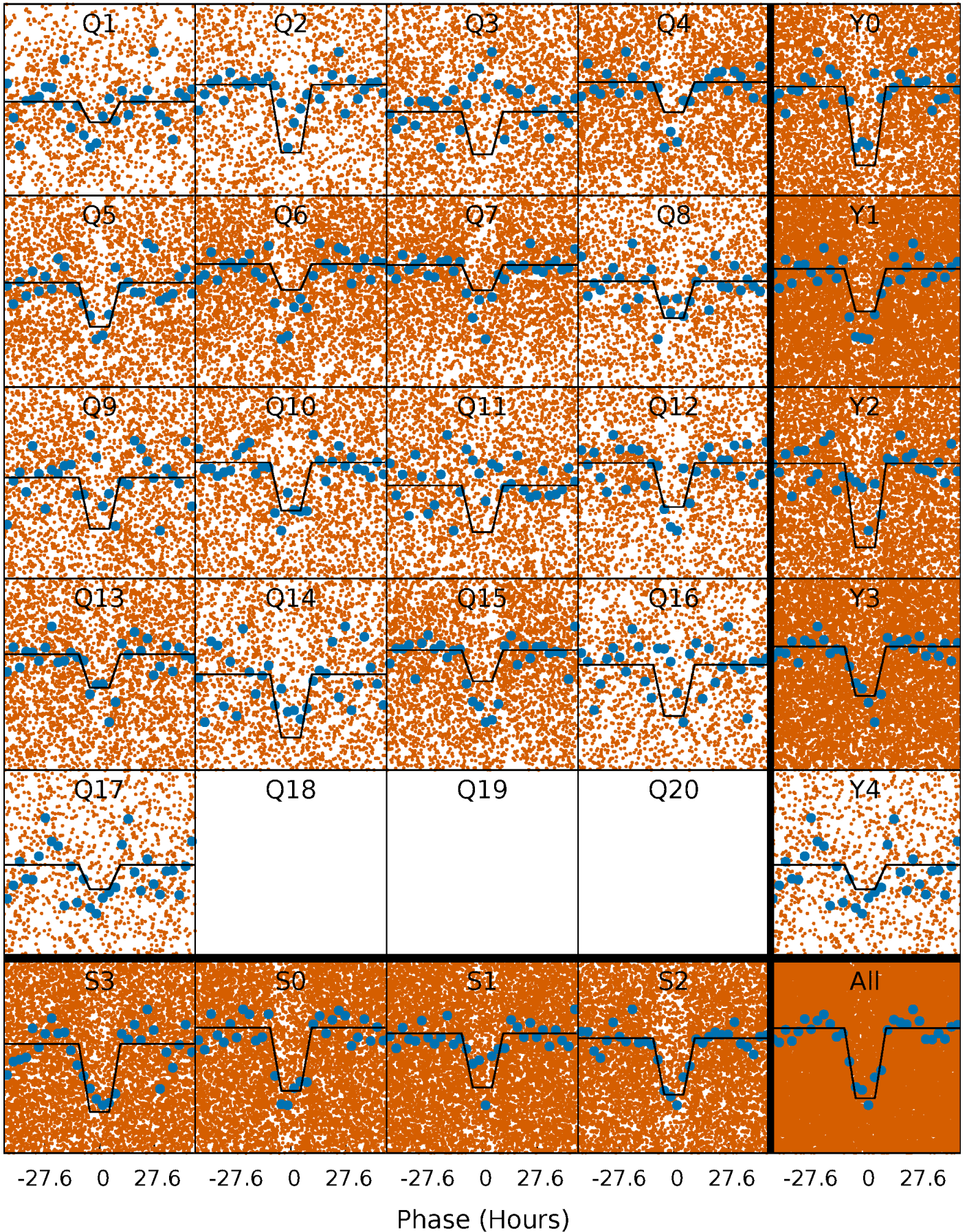
DV Quarter-Phased Transit Curves

TCE 006763633-01 P= 3.173456 Days $T_0=132.746094$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

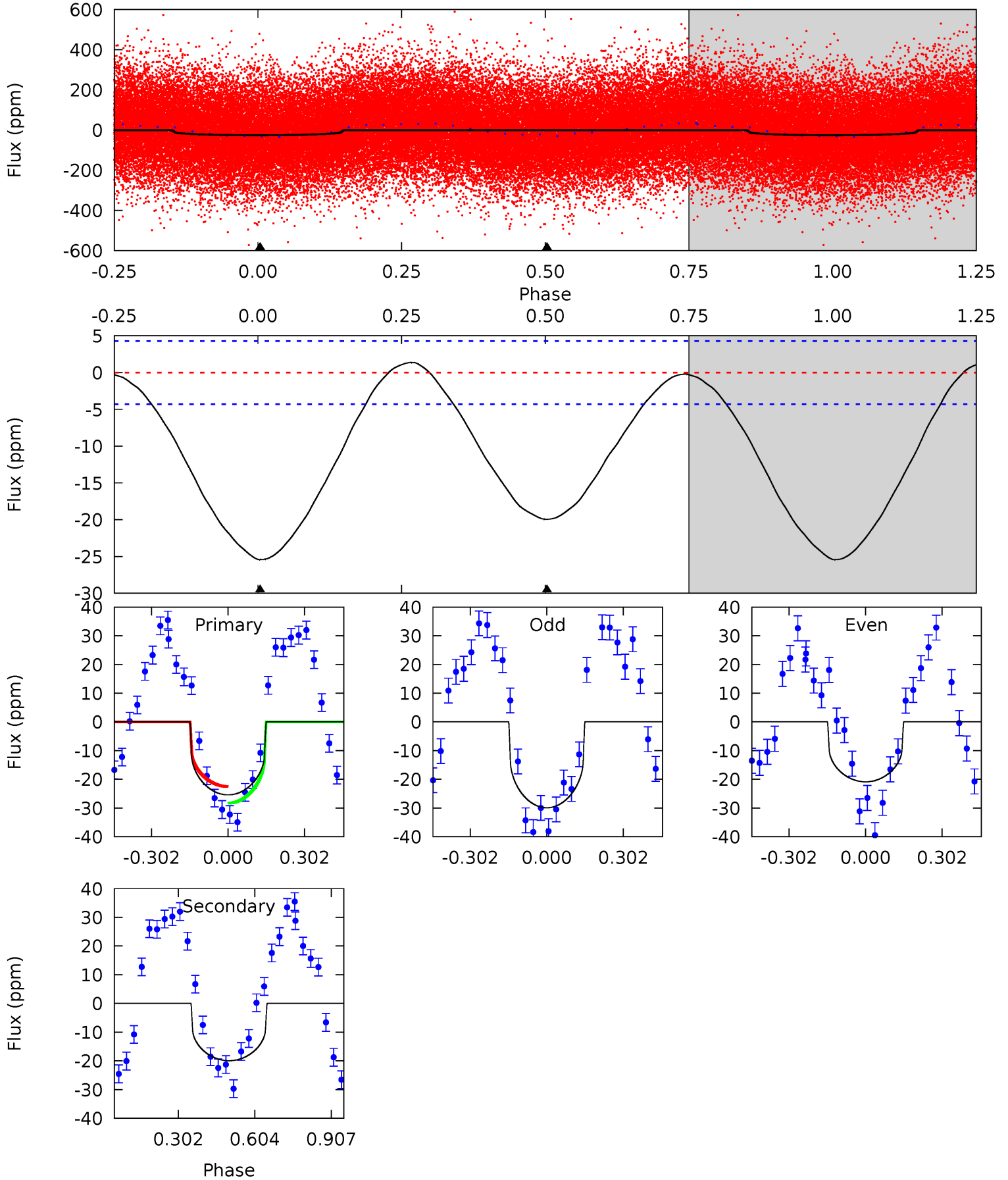
TCE 006763633-01 P= 3.173711 Days $T_0=132.699141$ (BKJD)



DV Model-Shift Uniqueness Test

006763633-01, P = 3.173456 Days, E = 129.572638 Days

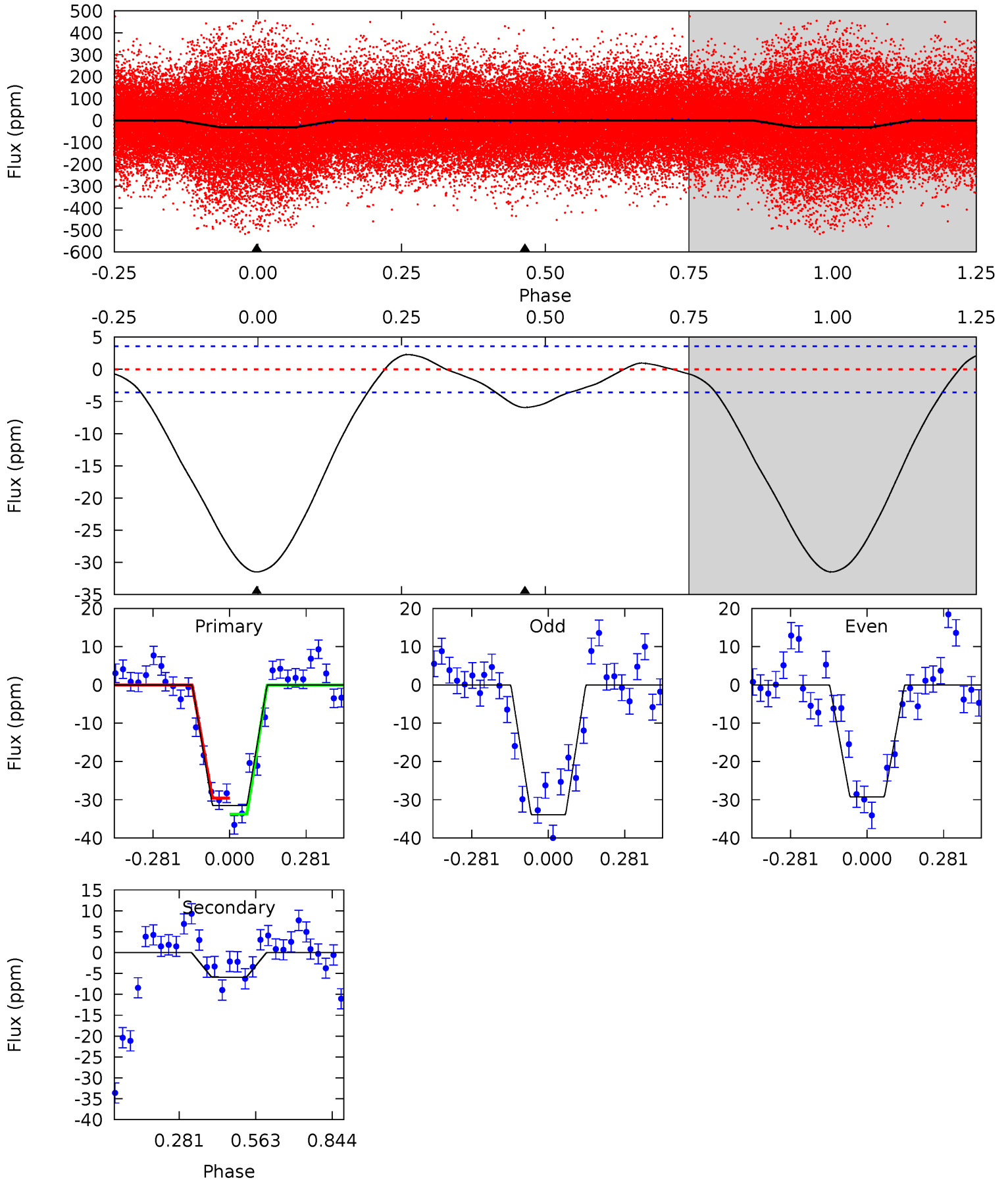
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.6	20.1	0	0	4.33	1.03	0.87	25.6	25.6	20.1	20.1	4.57	1.08	0.05	3.00



Alt Model-Shift Uniqueness Test

006763633-01, P = 3.173711 Days, E = 129.525430 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
38.1	7.18	0	0	4.34	1.08	0.97	38.1	38.1	7.18	7.18	2.82	1.29	0.07	2.30



Stellar Parameters For KIC 006763633

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5210^{+61}_{-199}	$2.988^{+0.030}_{-0.027}$	$-0.440^{+0.200}_{-0.350}$	$7.375^{+0.222}_{-1.994}$	$1.930^{+0.095}_{-0.904}$	$0.007^{+0.003}_{-0.000}$
	+1%/-4%	+1%/-1%	+45%/-80%	+3%/-27%	+5%/-47%	+39%/-6%
Source	PHO54	AST54	PHO54	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006763633-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-20 ± 1	$3.18^{+1.31}_{-1.40}$	3786^{+79}_{-129}	5349^{+1803}_{-827}	$3.072^{+6.315}_{-1.553}$
Alt.	-6 ± 1	$4.61^{+1.32}_{-1.40}$	3792^{+74}_{-145}	3076^{+813}_{-5792}	$0.424^{+0.424}_{-0.172}$

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 $A_{\text{obs}} \gg 1.0$

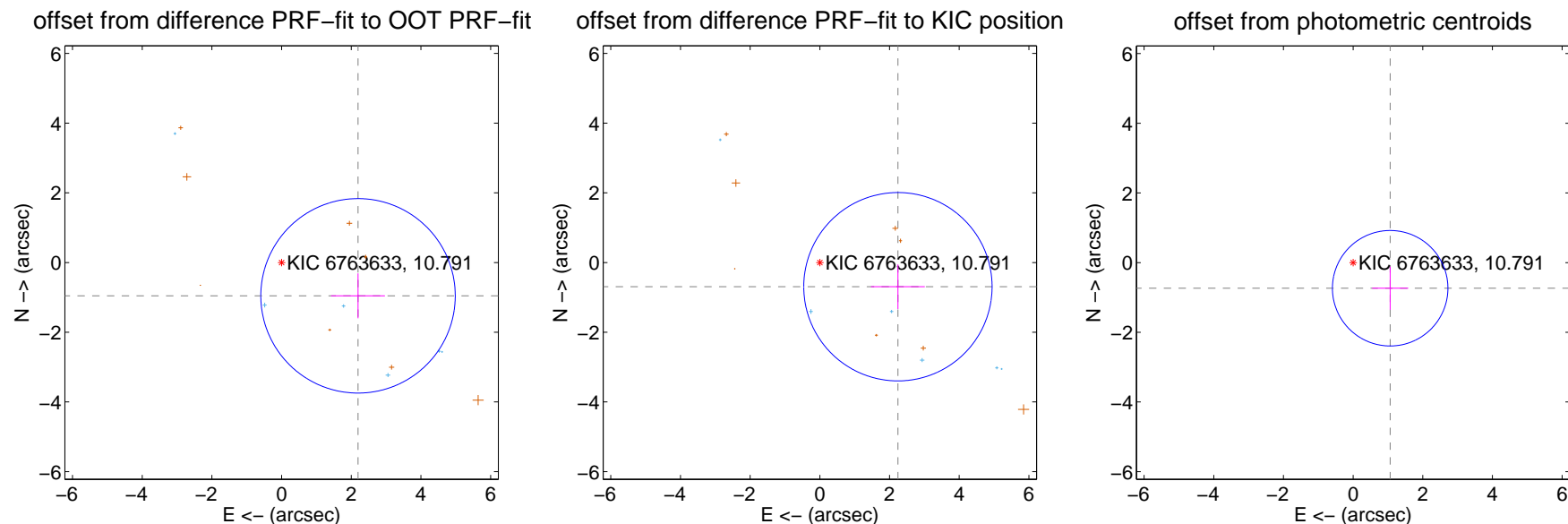
DV Centroid Data

Supplemental centroid analysis for 006763633-01. **Kepler magnitude: 10.79.** Transit SNR 6.58

There are 6 quarters with good PRF difference image offsets

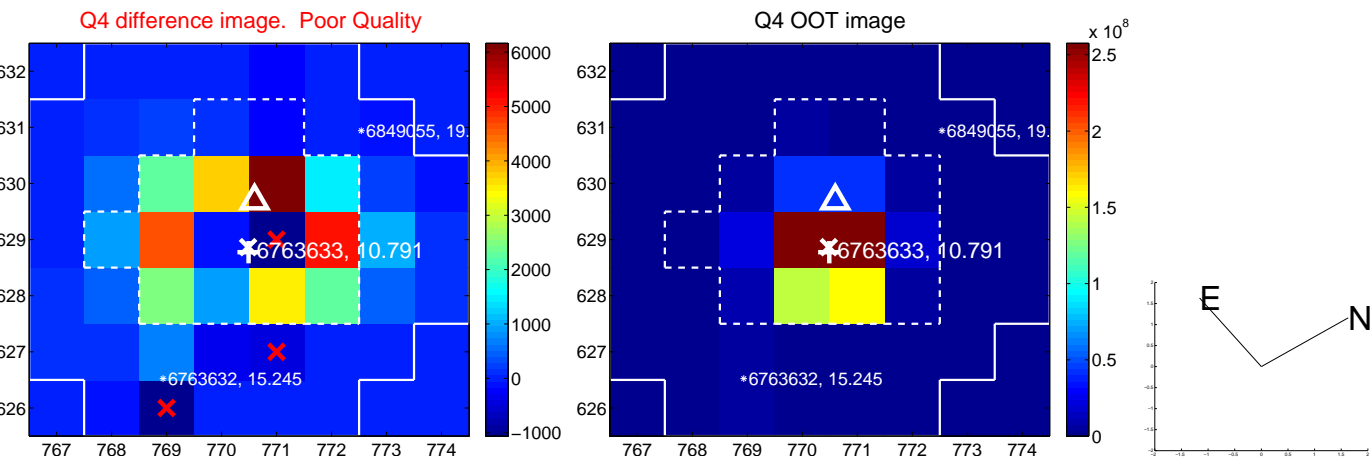
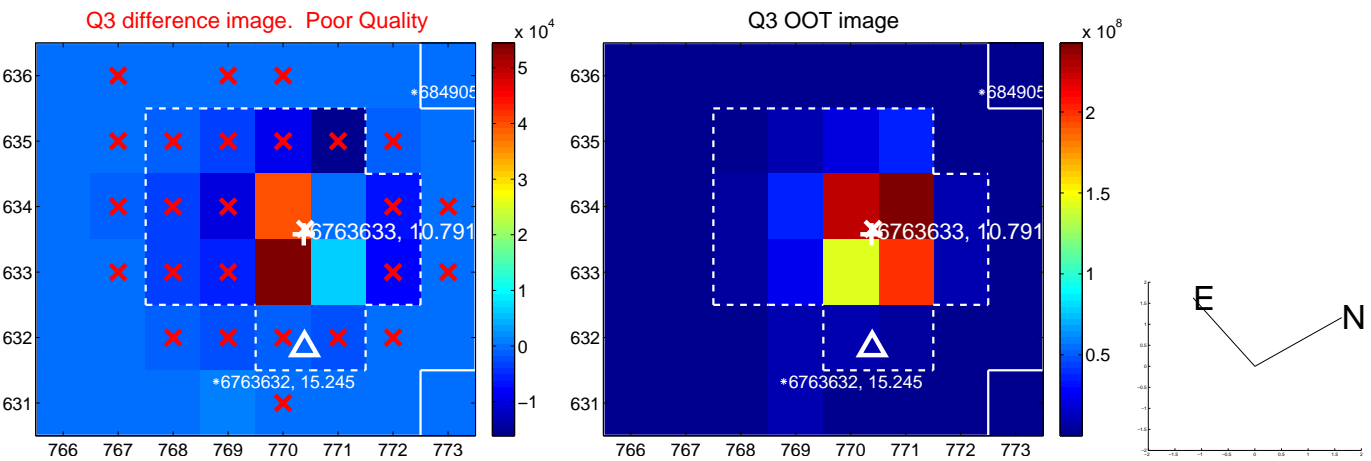
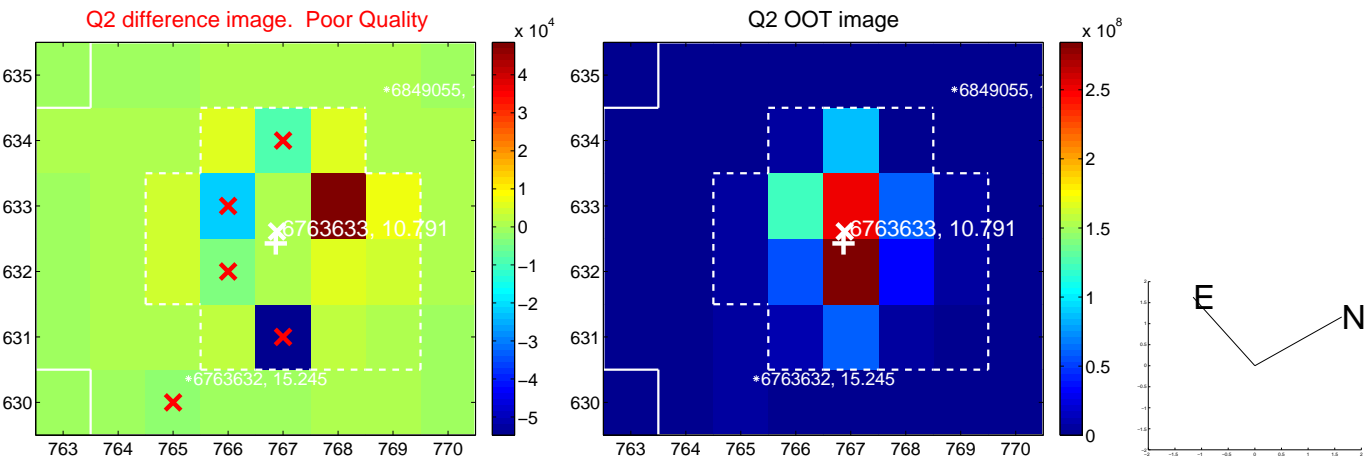
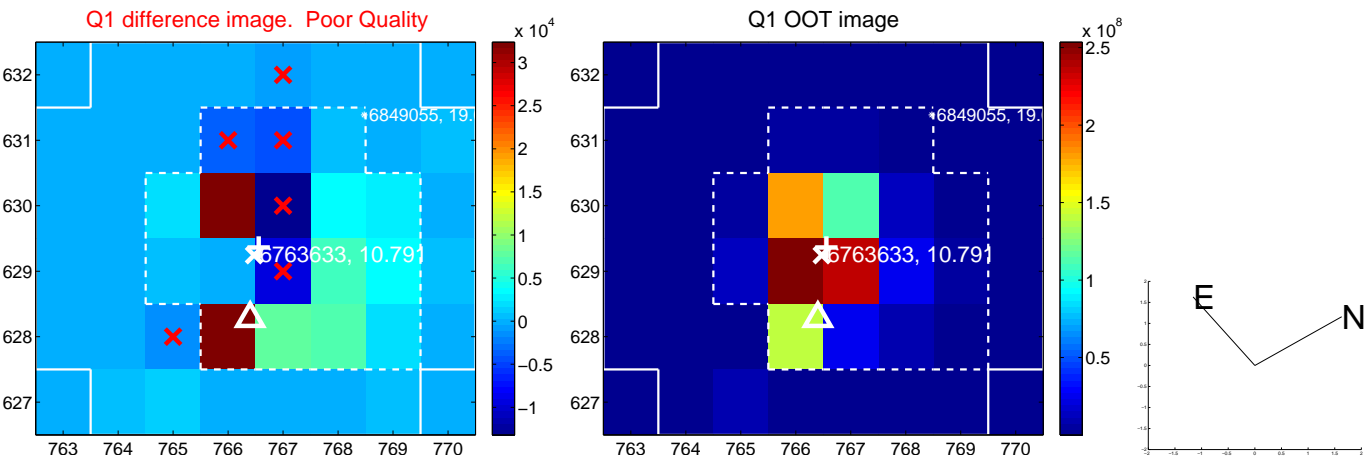
The direct PRF centroid is offset from the target star catalog position by about 0.49 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.393 ± 0.930	2.57	-2.194 ± 0.773	-0.956 ± 0.646
PRF-fit source offset from KIC position	2.346 ± 0.901	2.60	-2.241 ± 0.773	-0.694 ± 0.641
photometric centroid source offset	1.29 ± 0.55	2.34	-1.06 ± 0.52	-0.74 ± 0.62

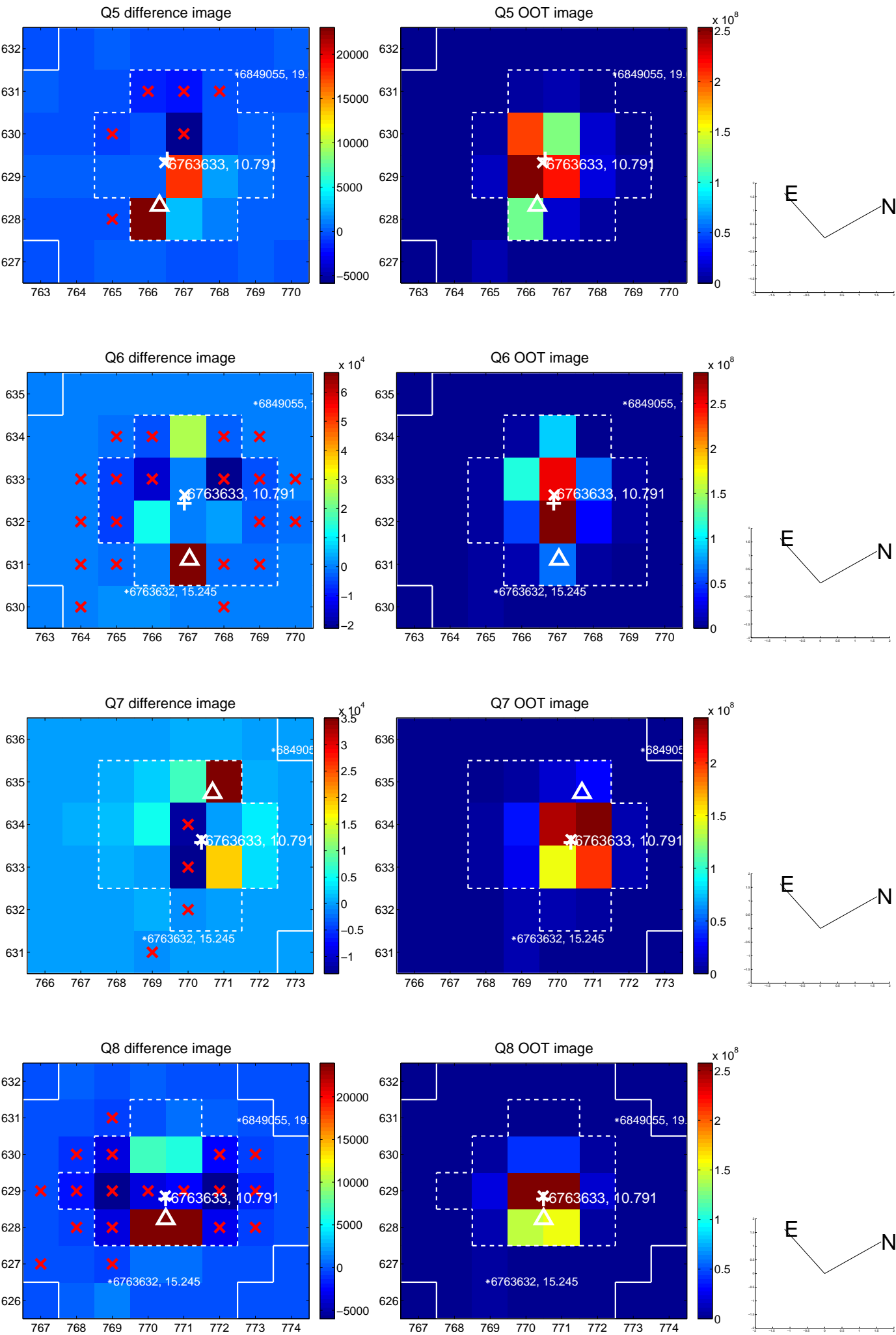


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

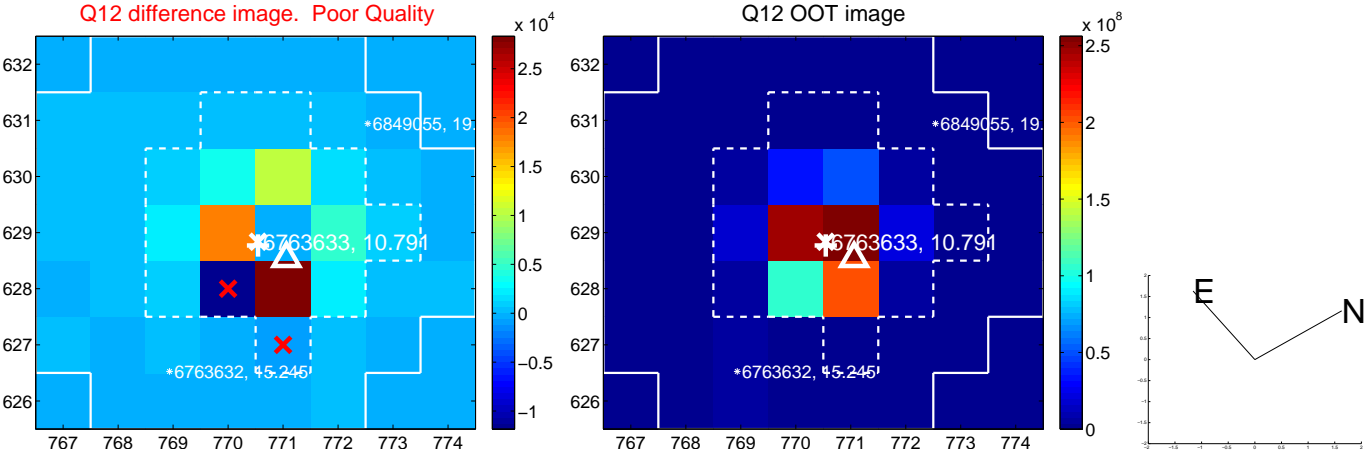
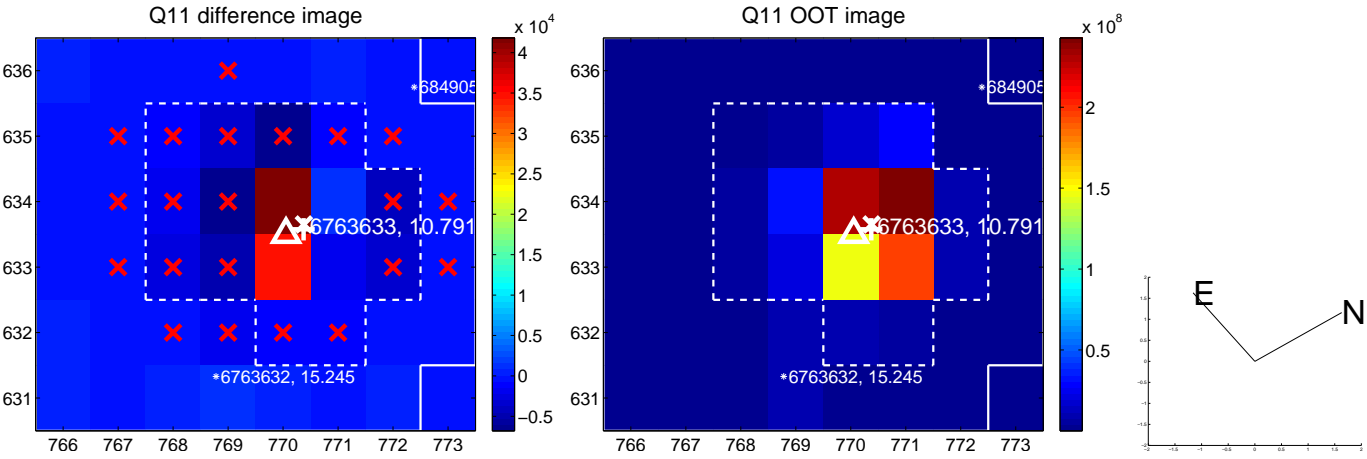
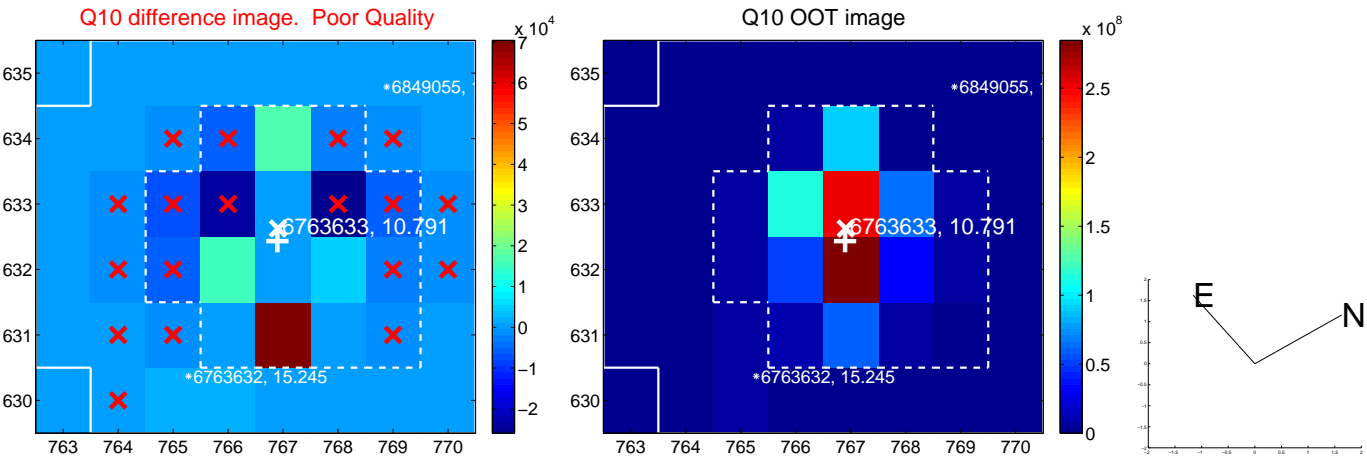
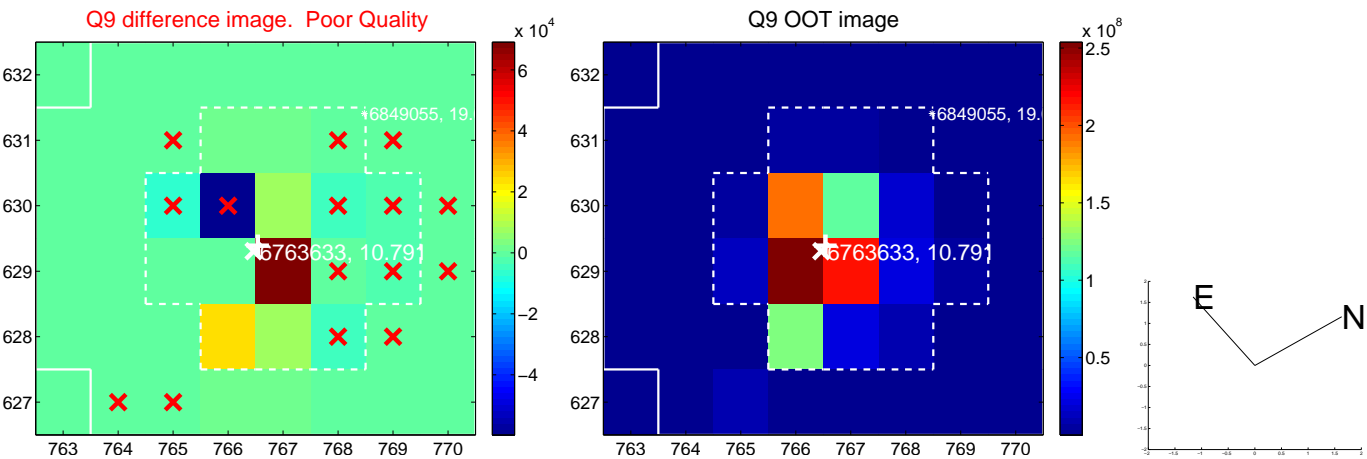
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



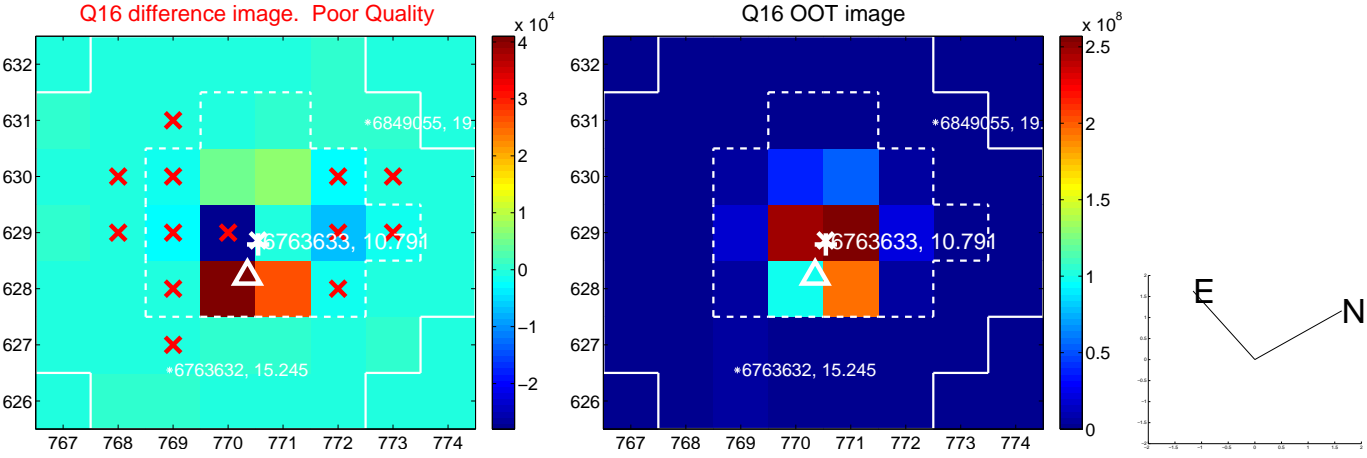
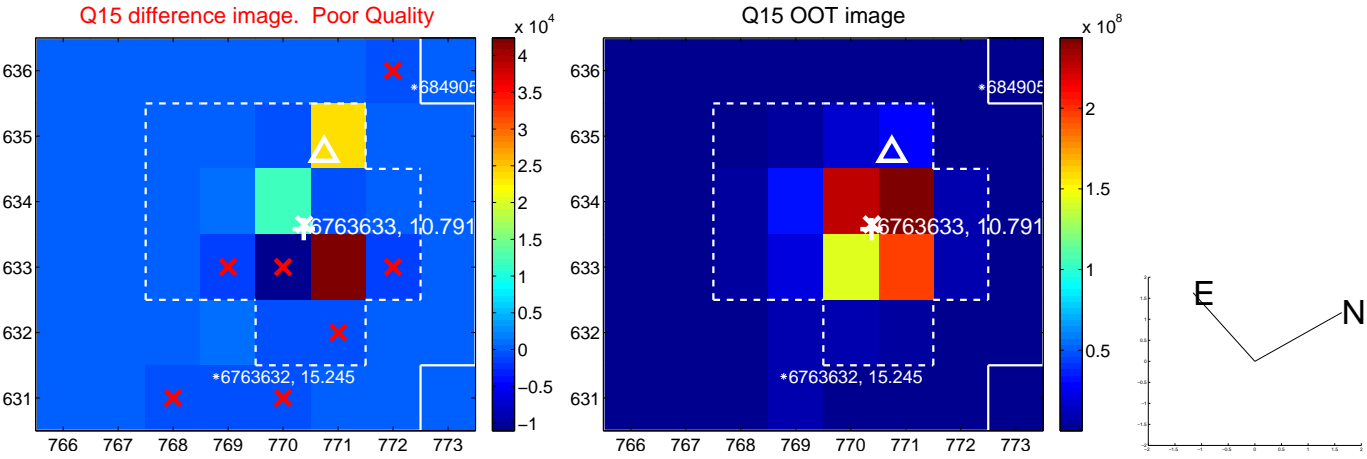
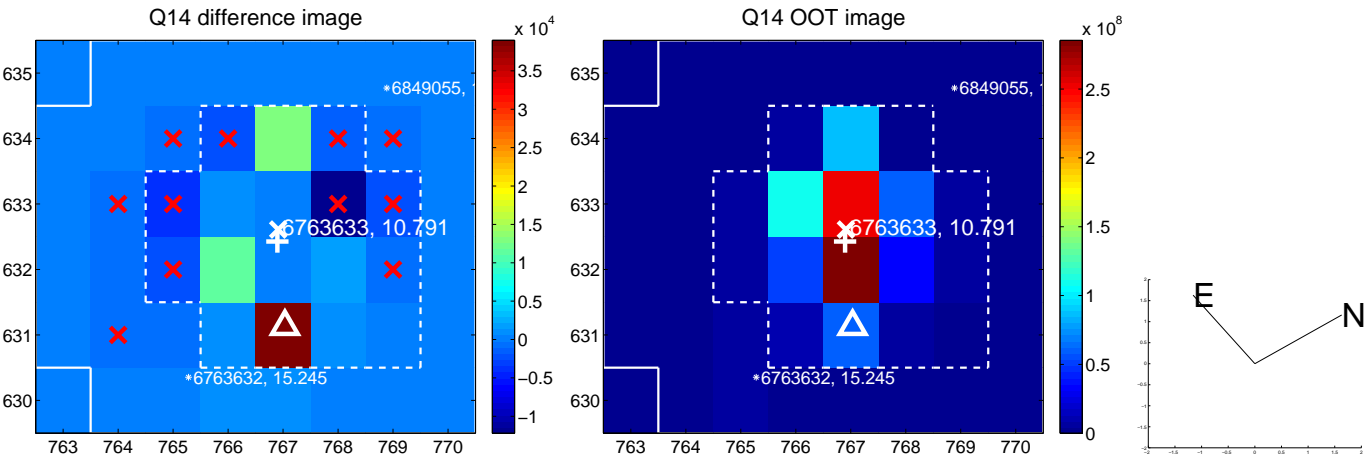
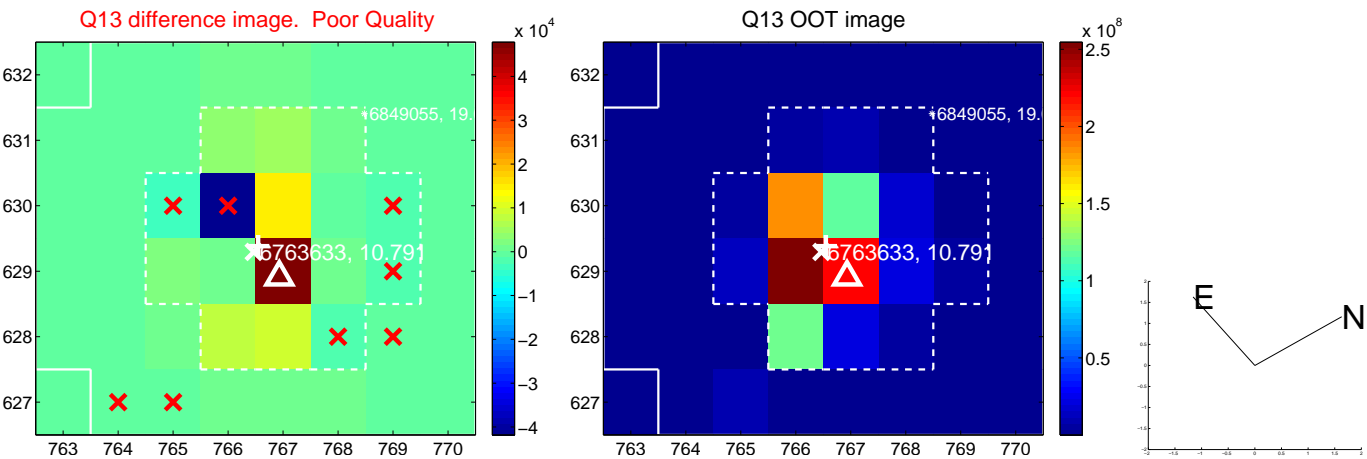
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



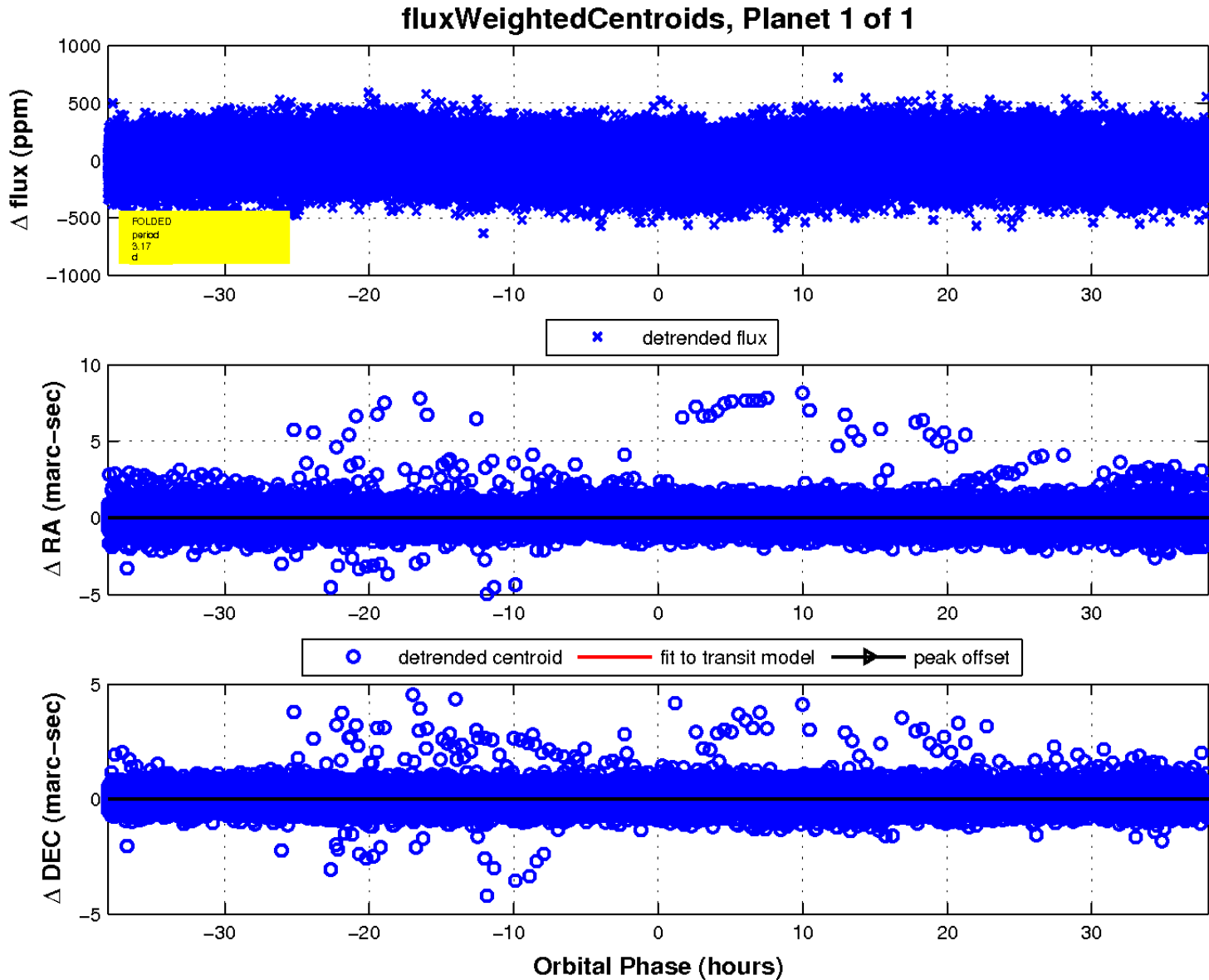
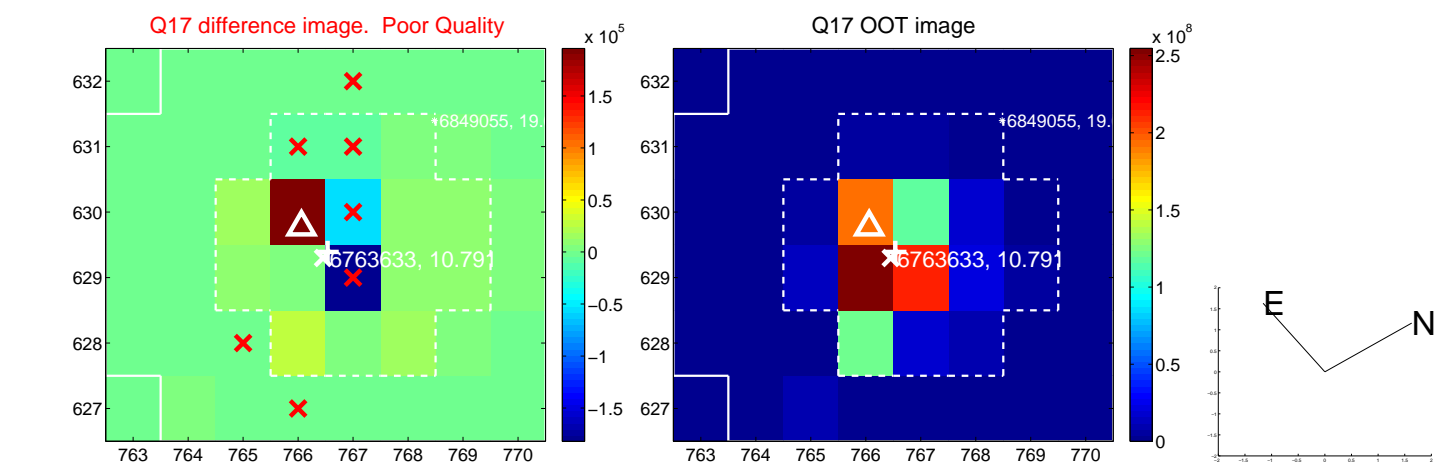
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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Declination