

KIC 006066675

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})
006066675-01	OBS	No	0.813580	132.411149	5.7	7.885	9.4	9.4	2.86	8158	0.69	66762.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006066675-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS

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

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

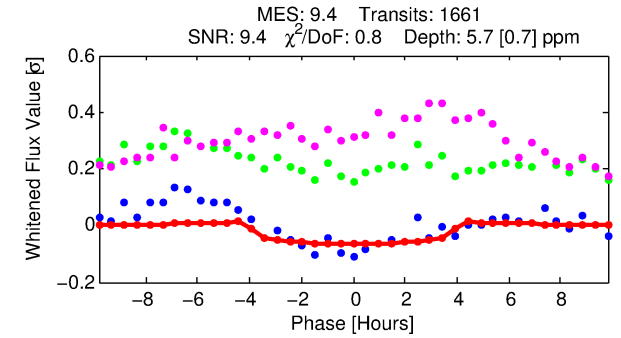
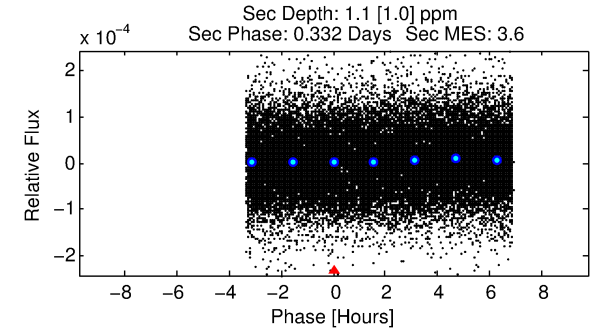
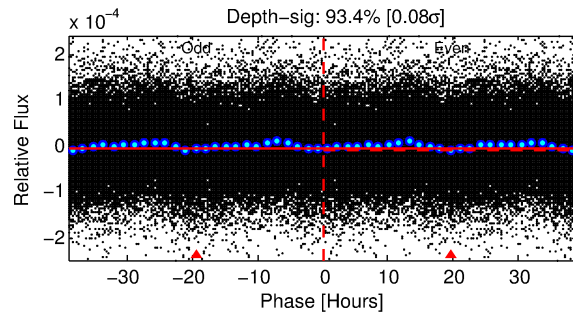
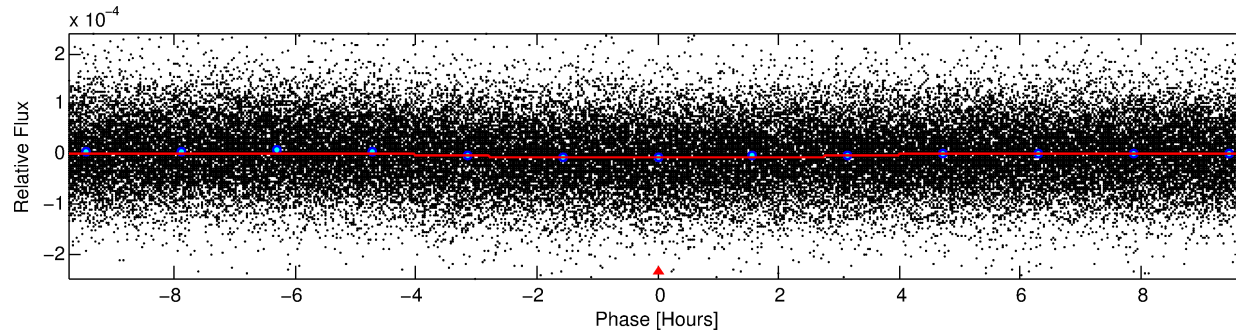
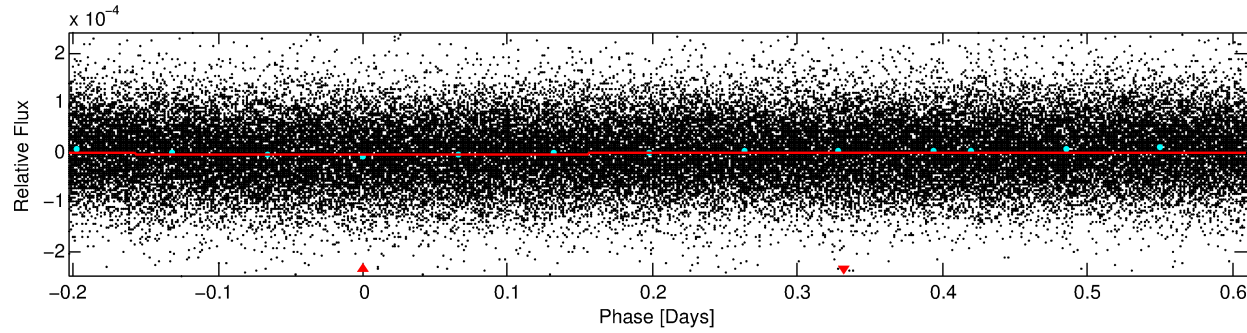
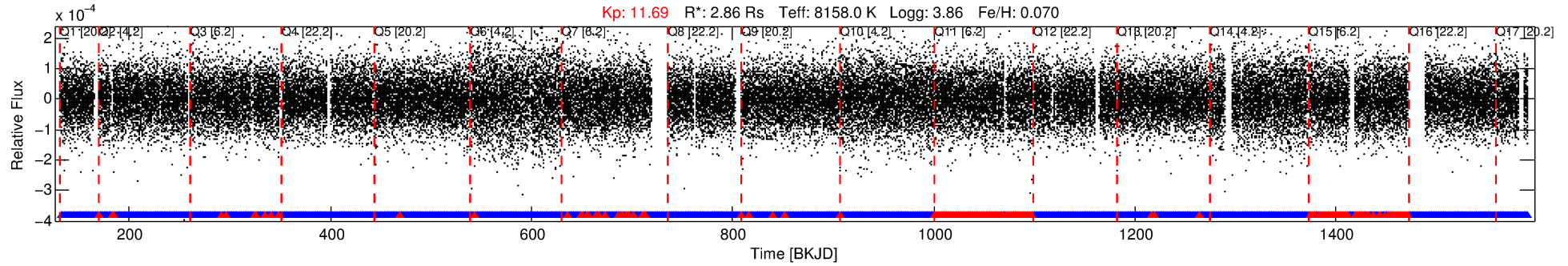
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006066675-01

No Significant Match Found

DV One-Page Summary

KIC: 6066675 Candidate: 1 of 1 Period: 0.814 d



DV Fit Results:

Period = 0.81358 [0.00002] d
Epoch = 132.4111 [0.0067] BKJD
Rp/R* = 0.0022 [0.0018]
a/R* = 1.05 [0.46]
b = 0.04 [121.75]
Seff = 66762.72 [36976.51]
Teq = 4099 [568] K
Rp = 0.69 [0.63] Re
a = 0.0220 [0.0074] AU
Ag = 0.63 [1.25] [-0.29 σ]
Teffp = 5656 [2695] K [0.57 σ]

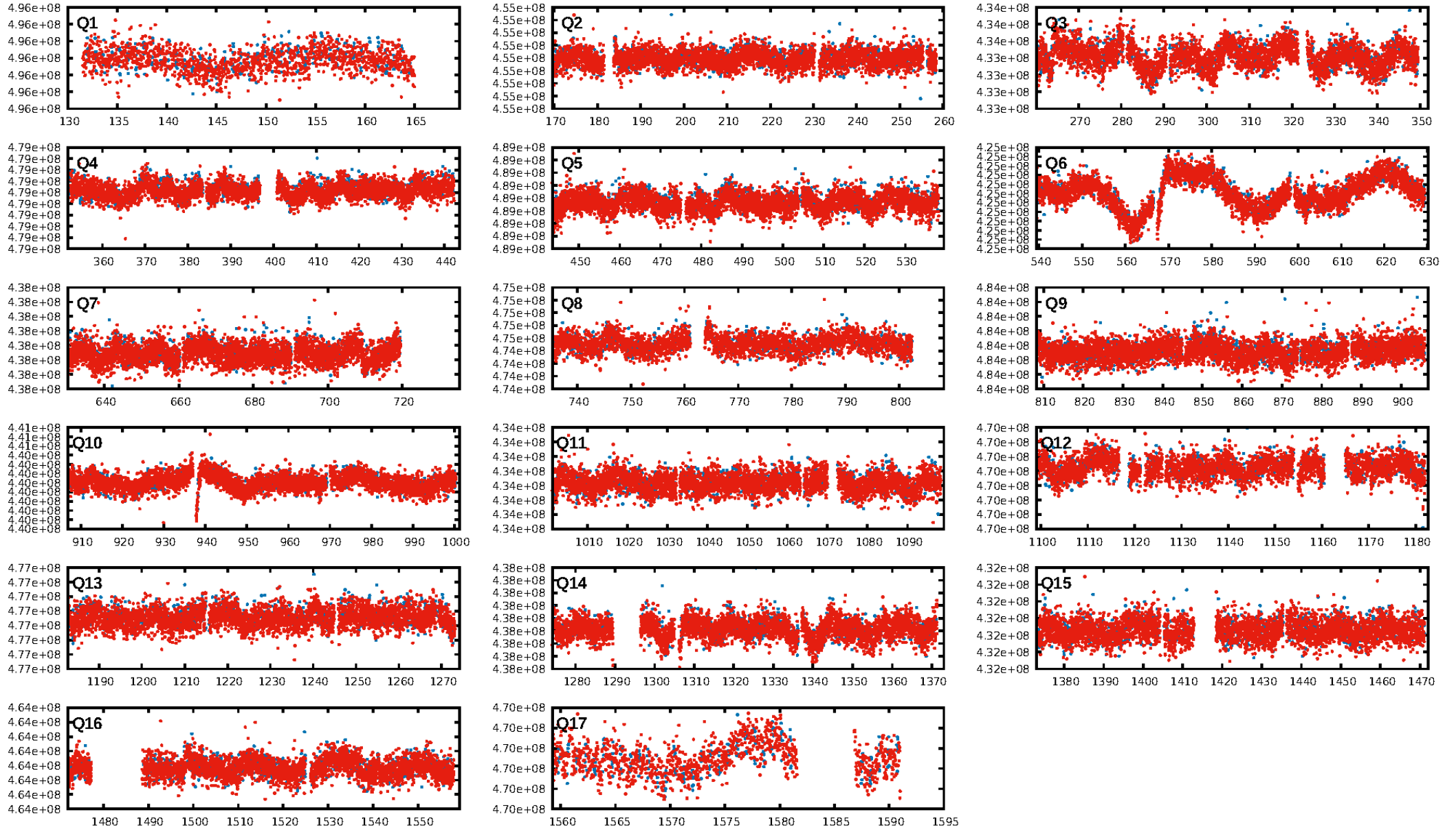
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.85 [1349/1585]
GhostDiagnostic-chr: -6.147
Centroid-sig: 3.8%
Centroid-so: 2.110 arcsec [1.61 σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [17/17]

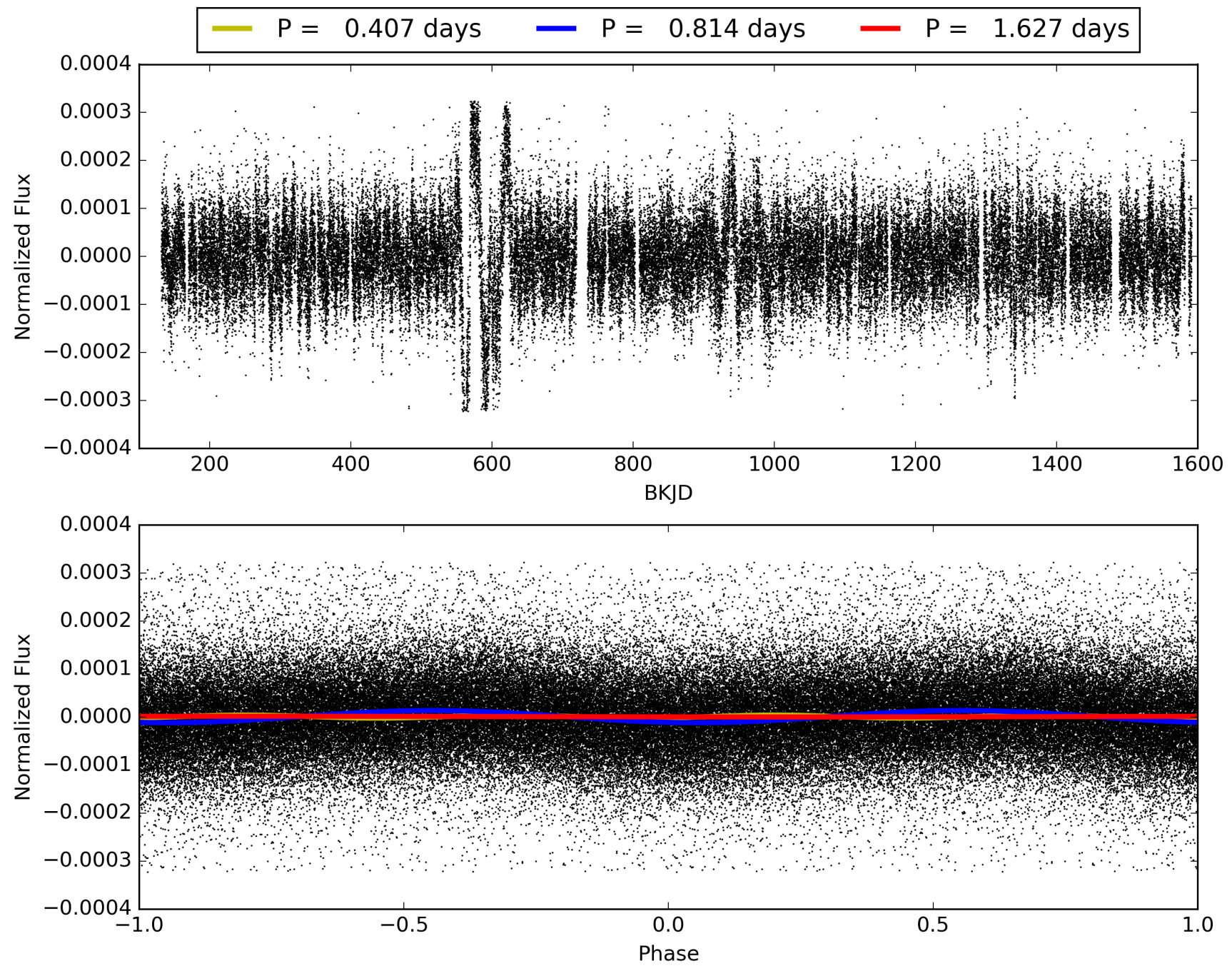
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:07:23 Z

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

TCE 006066675-01, PDC Light Curves

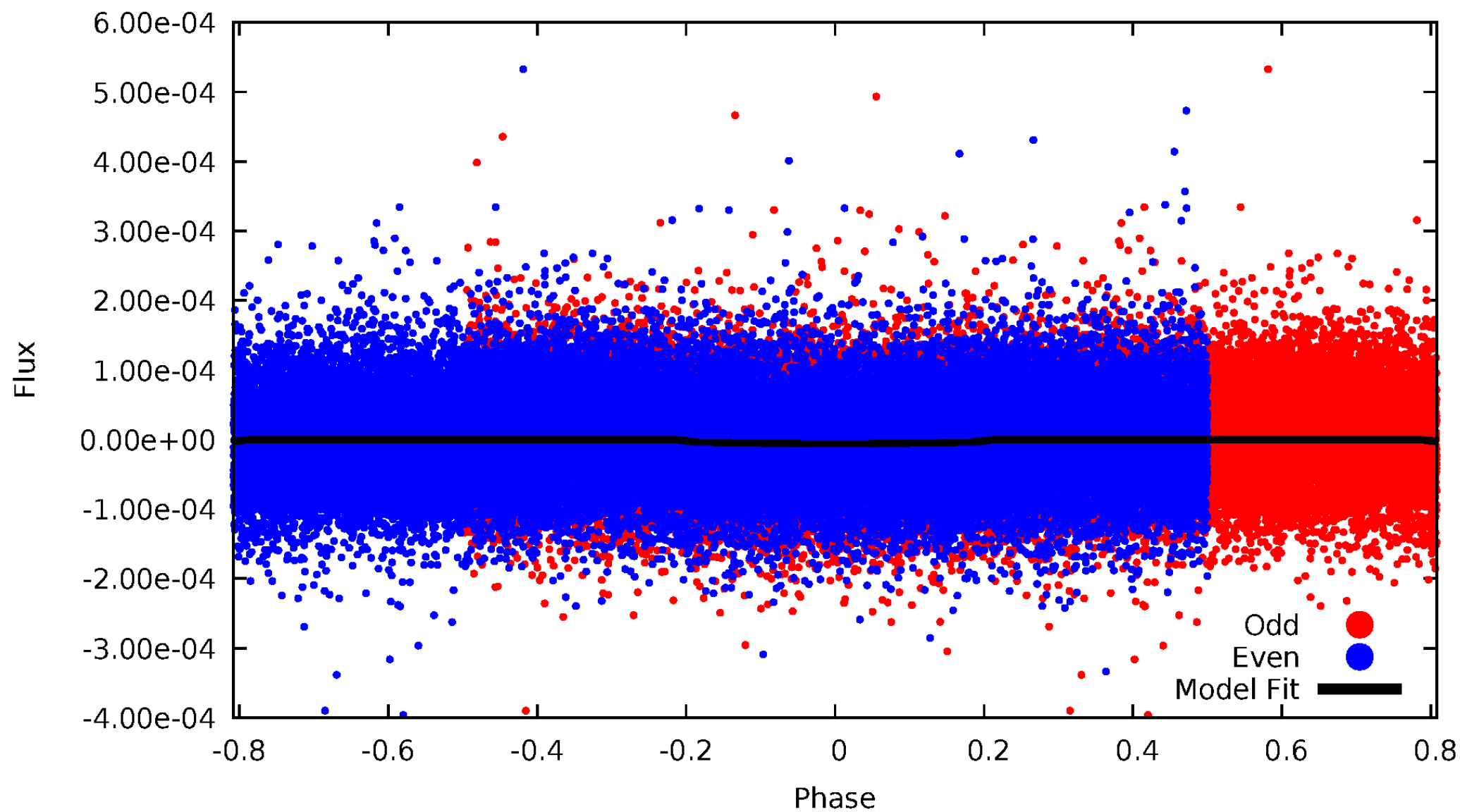


TCE 006066675-01



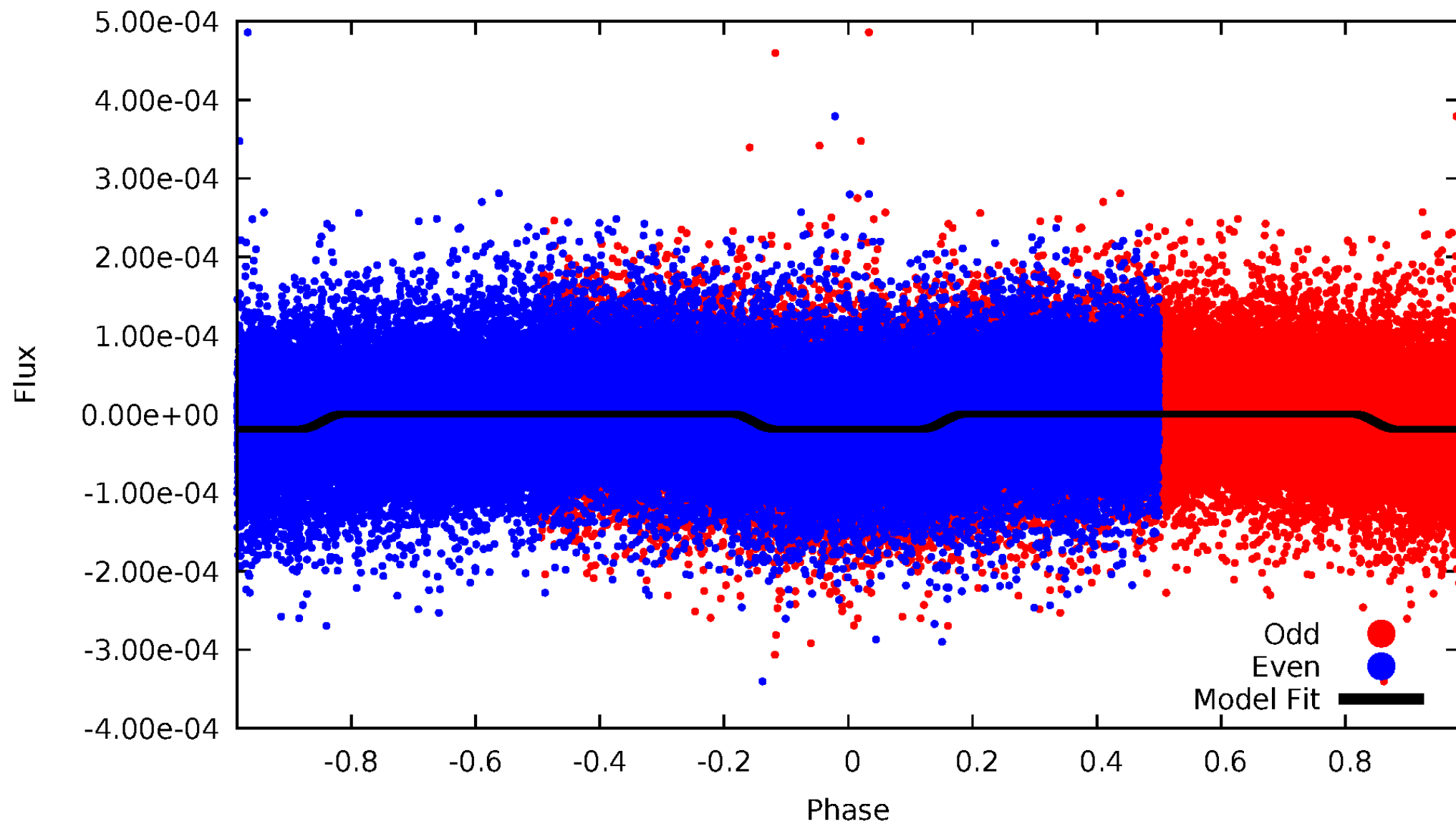
DV Odd/Even

TCE 006066675-01



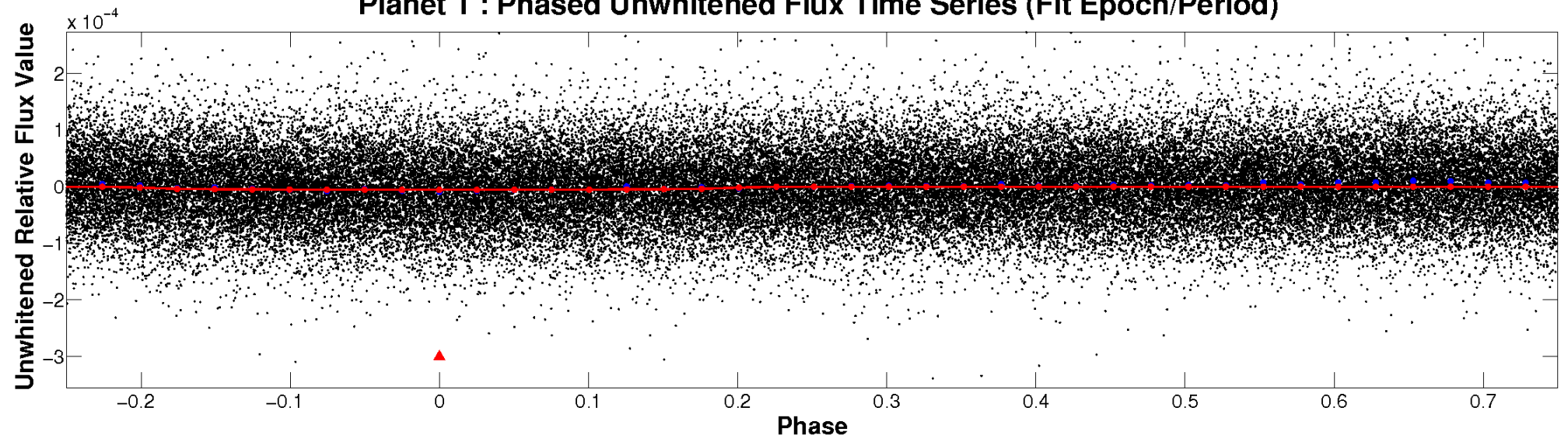
ALT Odd/Even

TCE 006066675-01

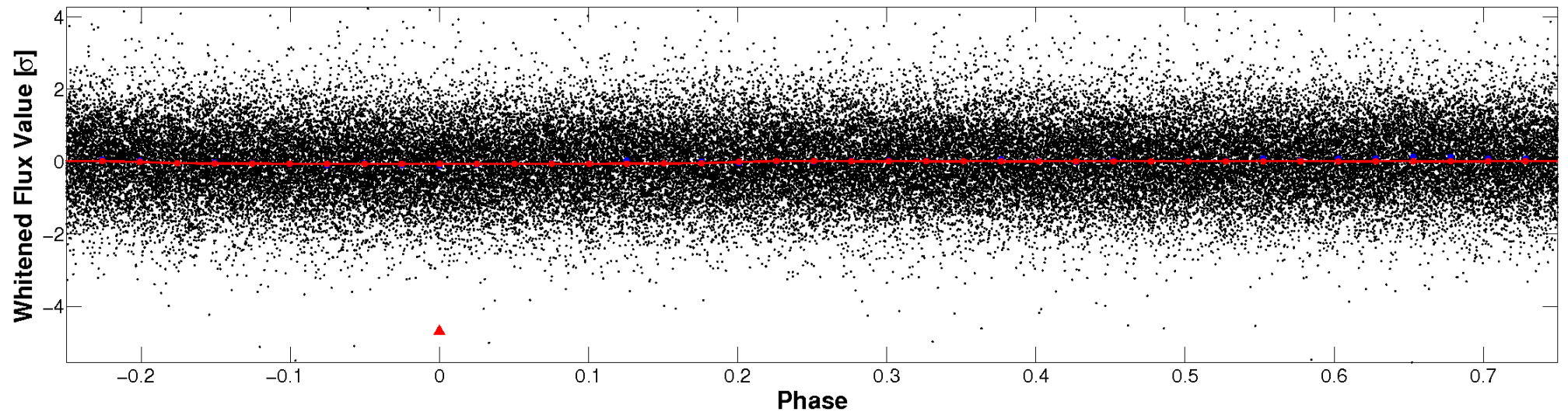


Non-Whitened Vs. Whitened Light Curve

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

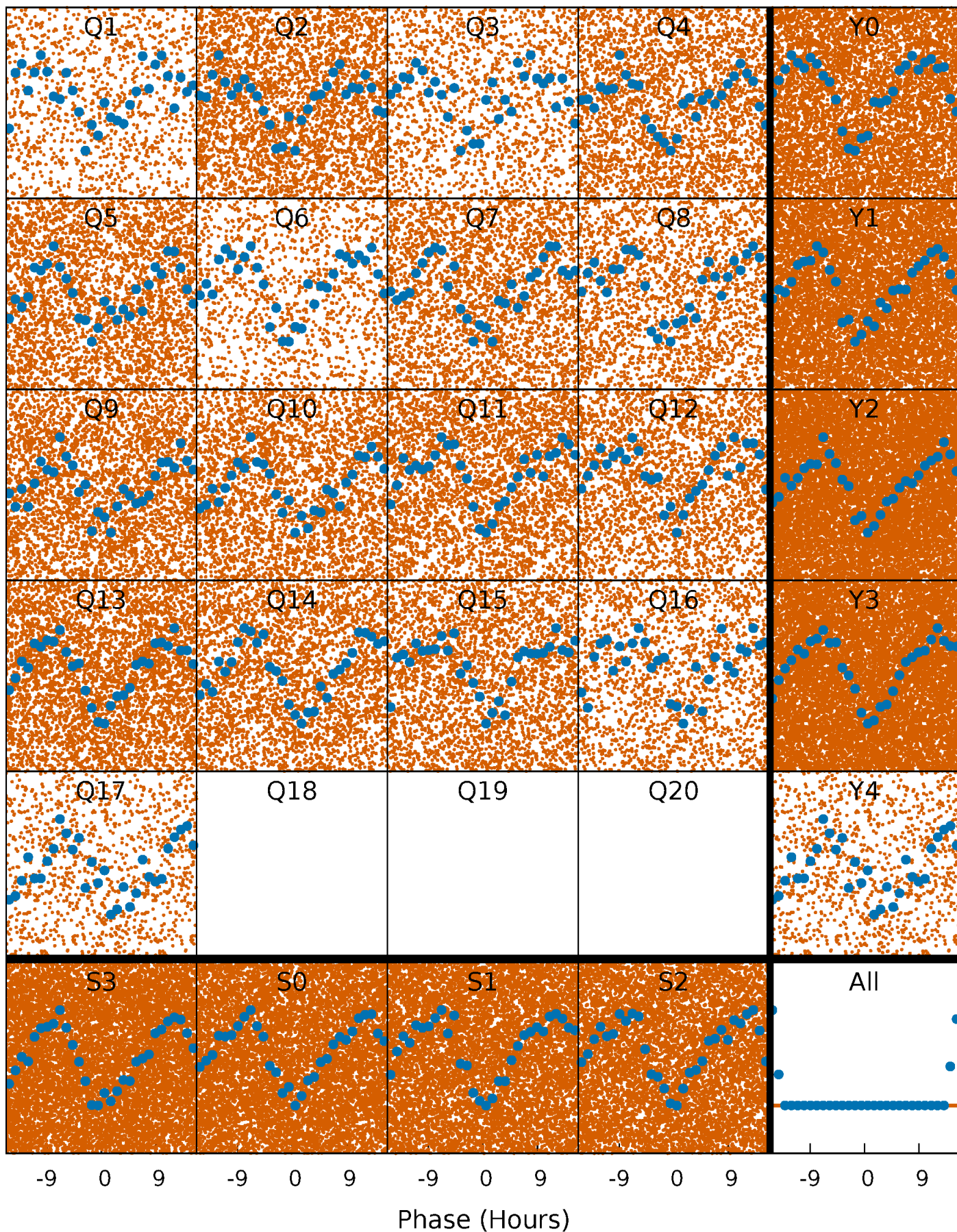


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



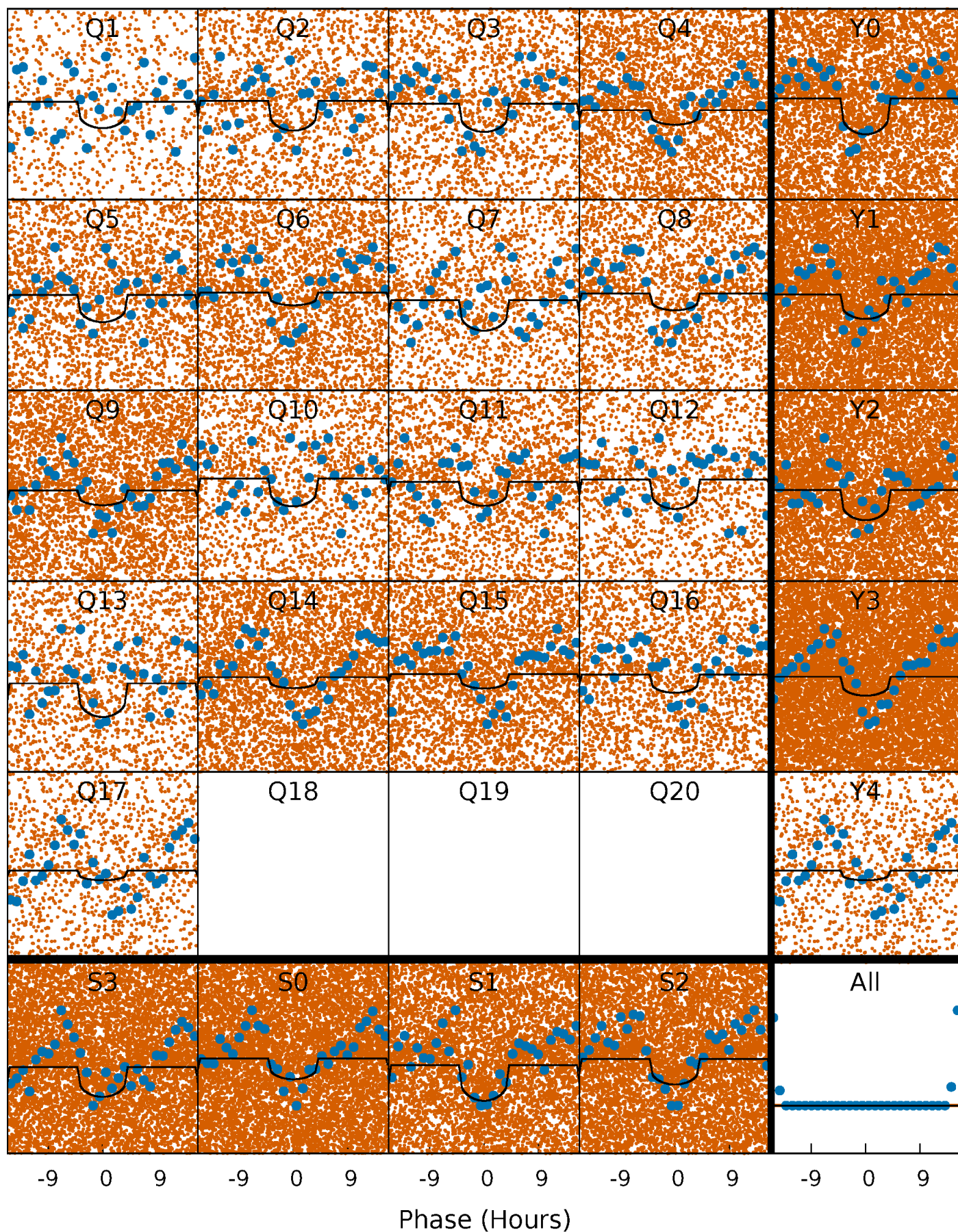
PDC Quarter-Phased Transit Curves

TCE 006066675-01 P= 0.813580 Days $T_0=132.411149$ (BKJD)



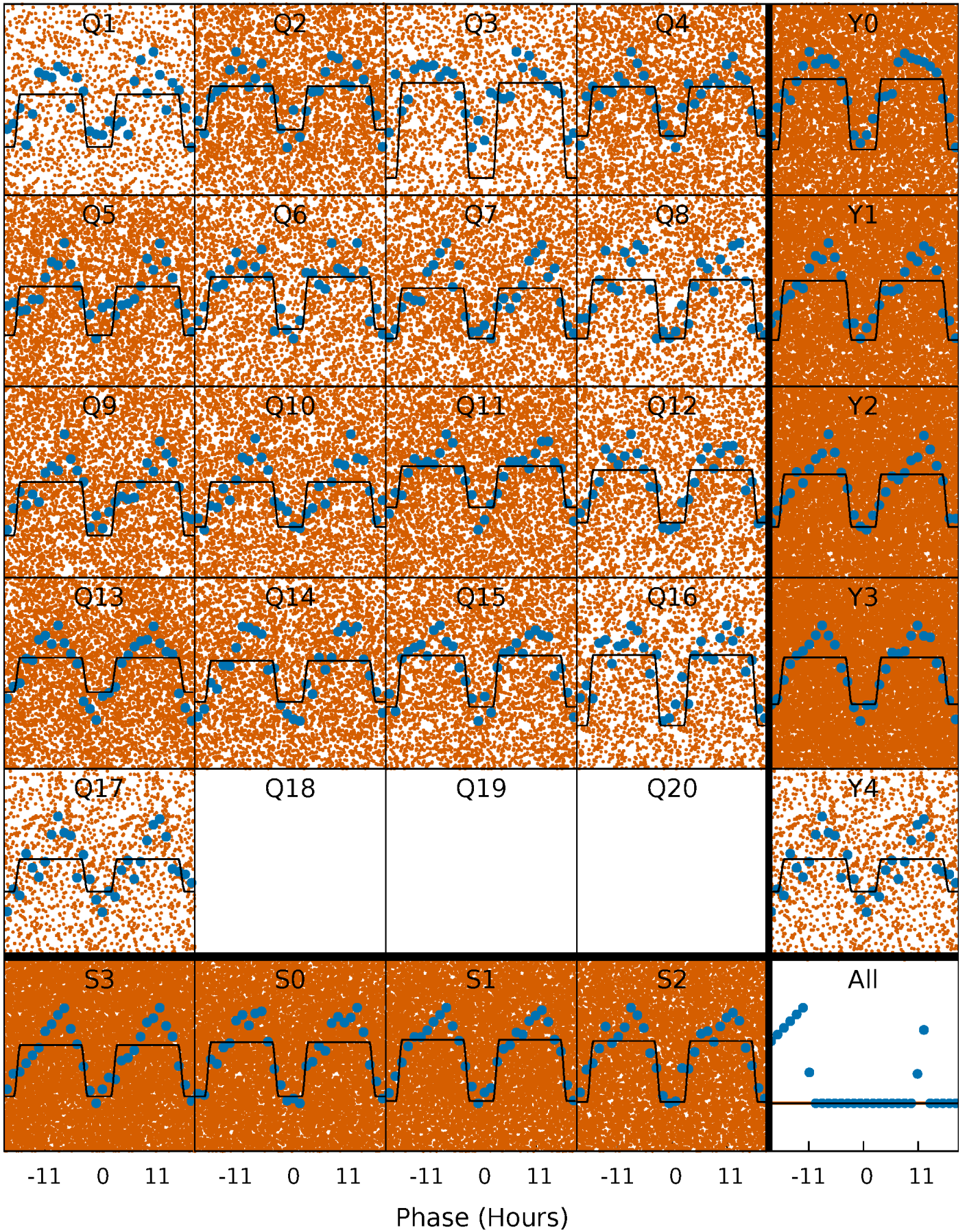
DV Quarter-Phased Transit Curves

TCE 006066675-01 P= 0.813580 Days $T_0=132.411149$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

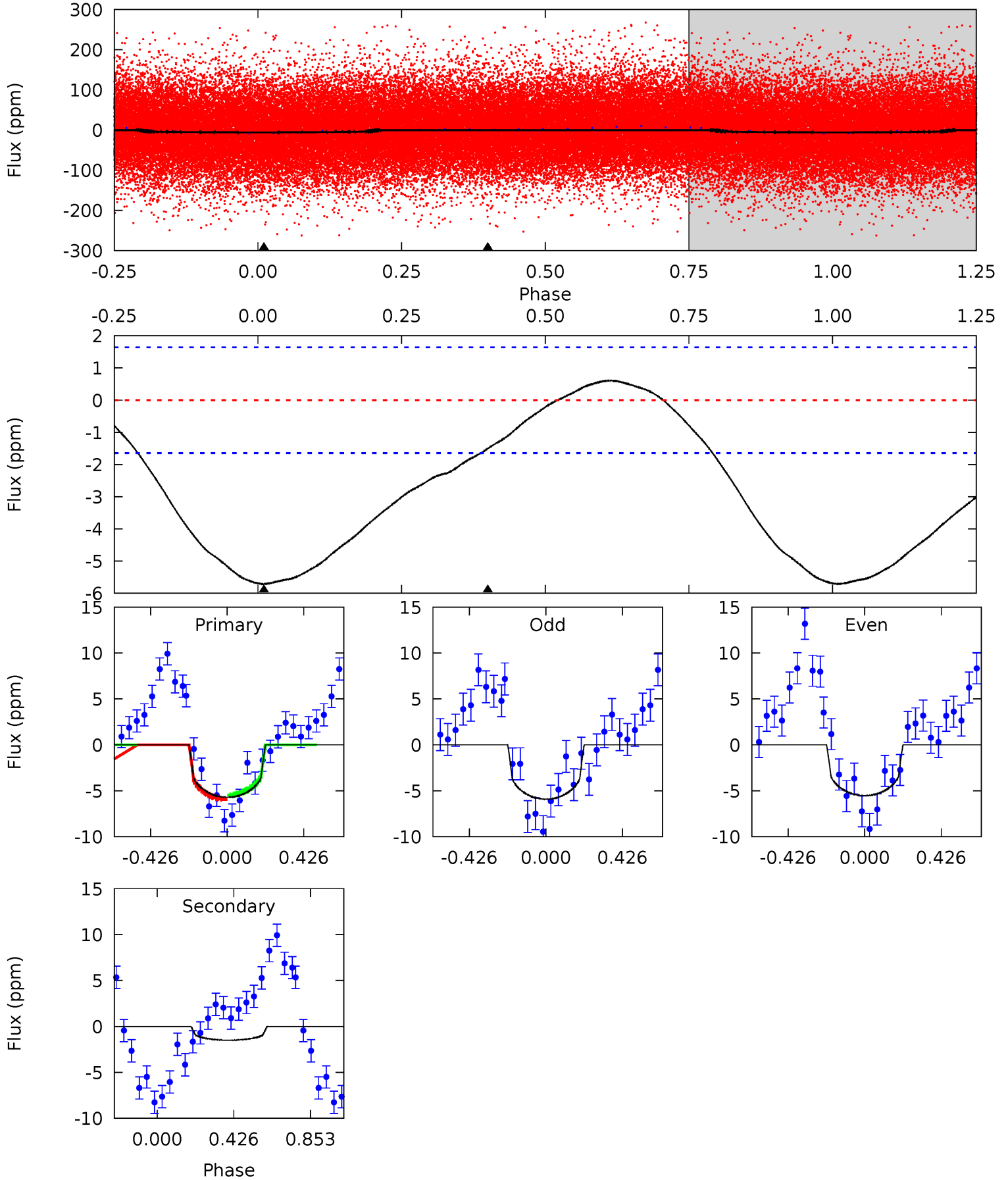
TCE 006066675-01 P= 0.813665 Days $T_0=132.345265$ (BKJD)



DV Model-Shift Uniqueness Test

006066675-01, P = 0.813580 Days, E = 130.783989 Days

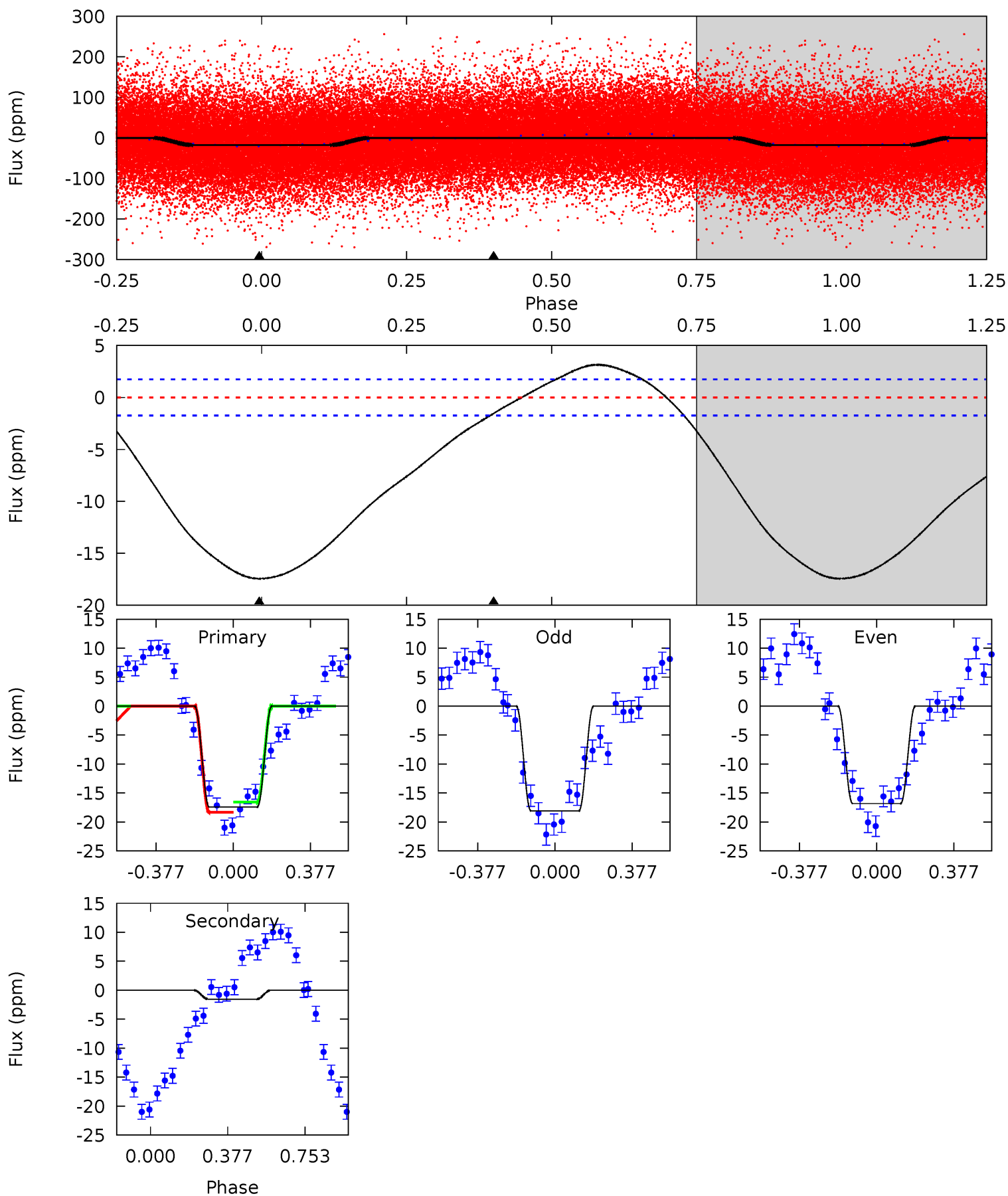
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.8	3.89	0	0	4.25	0.80	1.06	14.8	14.8	3.89	3.89	0.50	0.98	0.10	0.63



Alt Model-Shift Uniqueness Test

006066675-01, P = 0.813665 Days, E = 130.717935 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
42.8	3.78	0	0	4.28	0.88	3.72	42.8	42.8	3.78	3.78	1.54	1.01	0.15	2.13



Stellar Parameters For KIC 006066675

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8158^{+225}_{-367}	$3.859^{+0.301}_{-0.108}$	$0.070^{+0.250}_{-0.450}$	$2.856^{+0.617}_{-1.057}$	$2.149^{+0.316}_{-0.541}$	$0.130^{+0.301}_{-0.049}$
	+3%/-4%	+8%/-3%	+357%/-643%	+22%/-37%	+15%/-25%	+232%/-37%
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 006066675-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-2 ± 0	$0.70^{+0.56}_{-0.45}$	5569^{+385}_{-523}	5027^{+4644}_{-8407}	$0.820^{+4.861}_{-0.576}$
Alt.	-2 ± 0	$1.28^{+0.58}_{-0.54}$	5571^{+423}_{-519}	-3390^{+8165}_{-880}	$0.242^{+0.485}_{-0.131}$

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

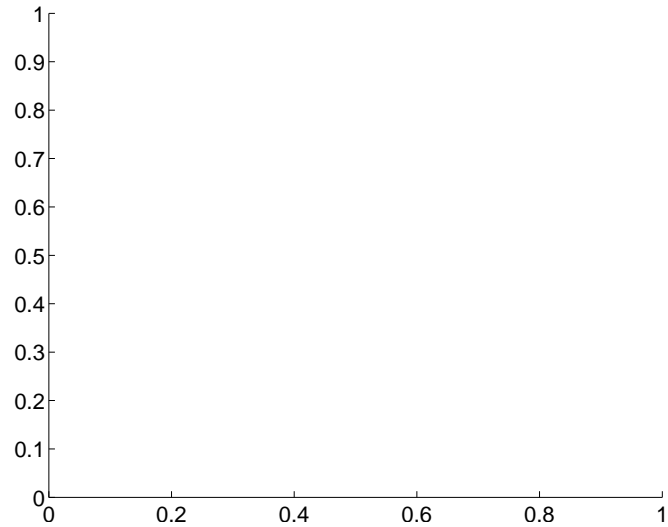
Supplemental centroid analysis for 006066675-01. **Kepler magnitude: 11.69.** Transit SNR 9.36

There are 0 quarters with good PRF difference image offsets

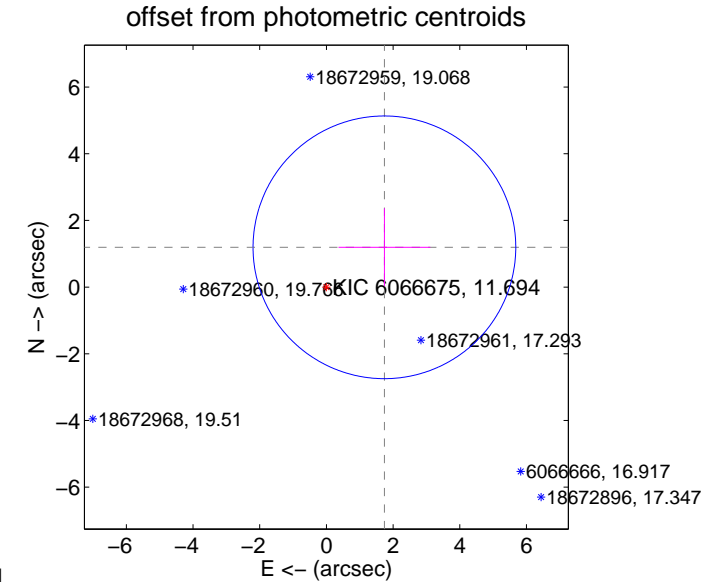
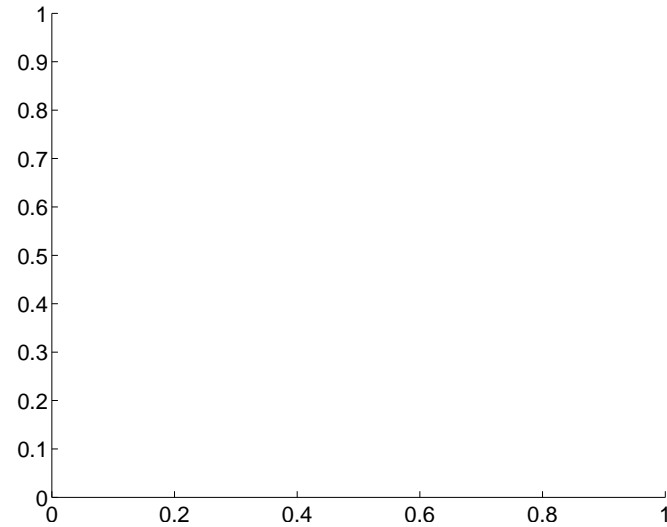
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	2.11 ± 1.31	1.61	-1.74 ± 1.38	1.19 ± 1.17

There is no PRF-fit offset from OOT-fit

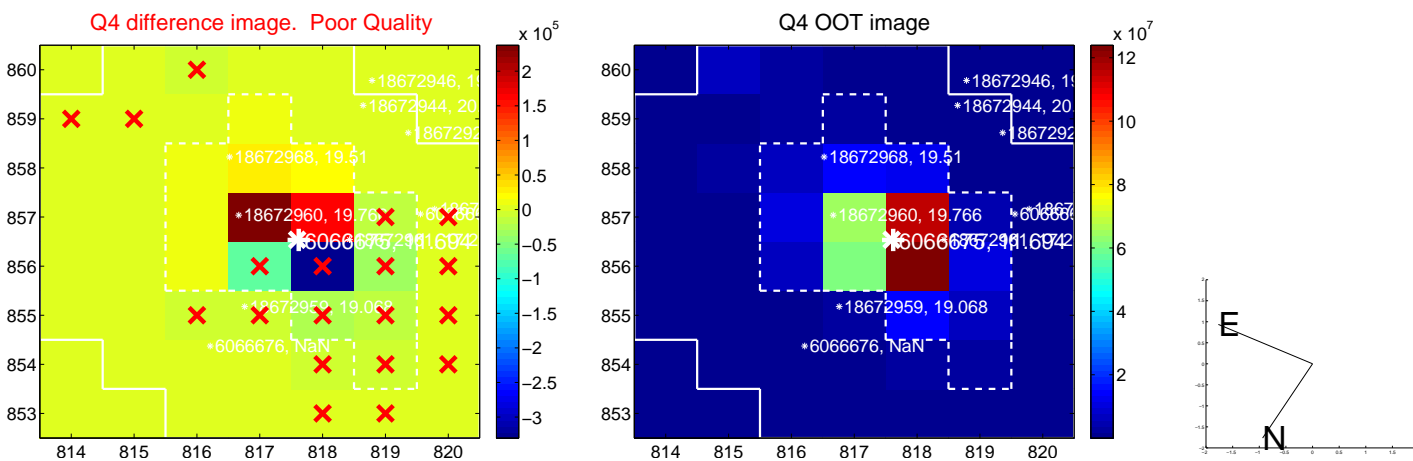
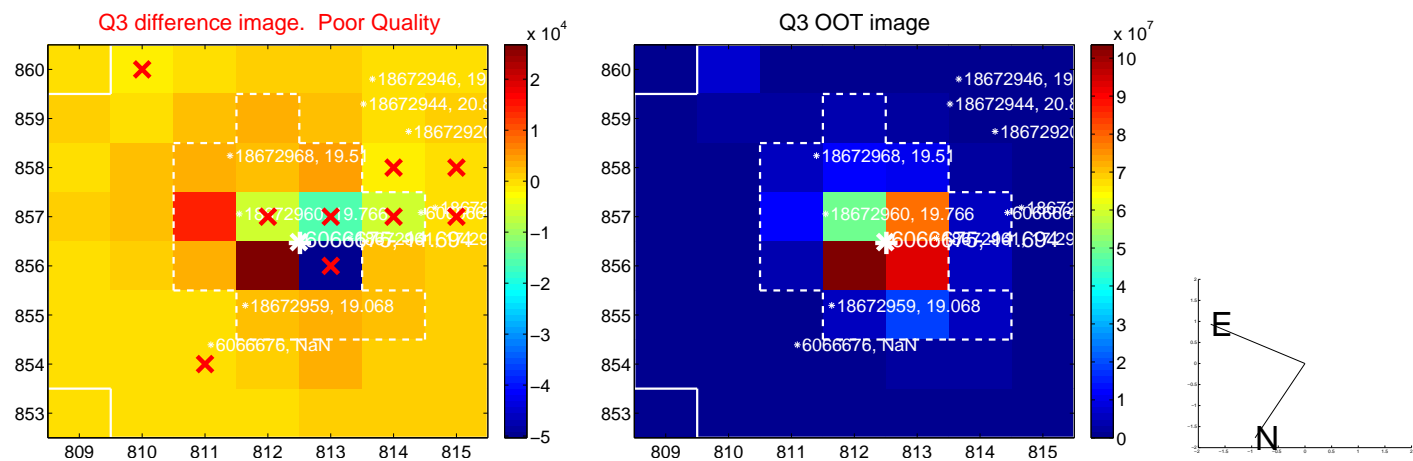
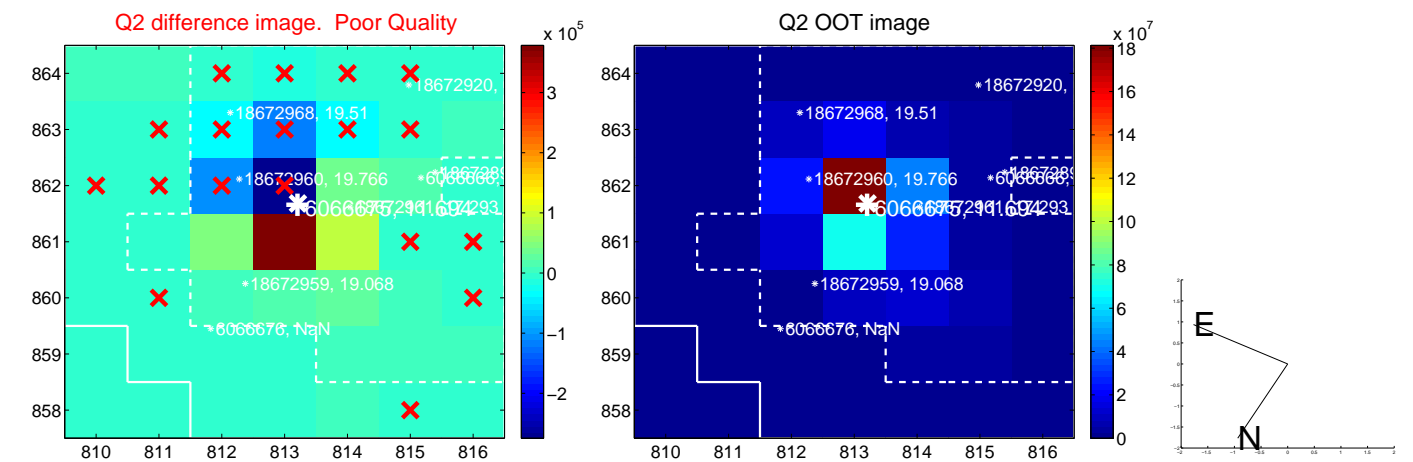
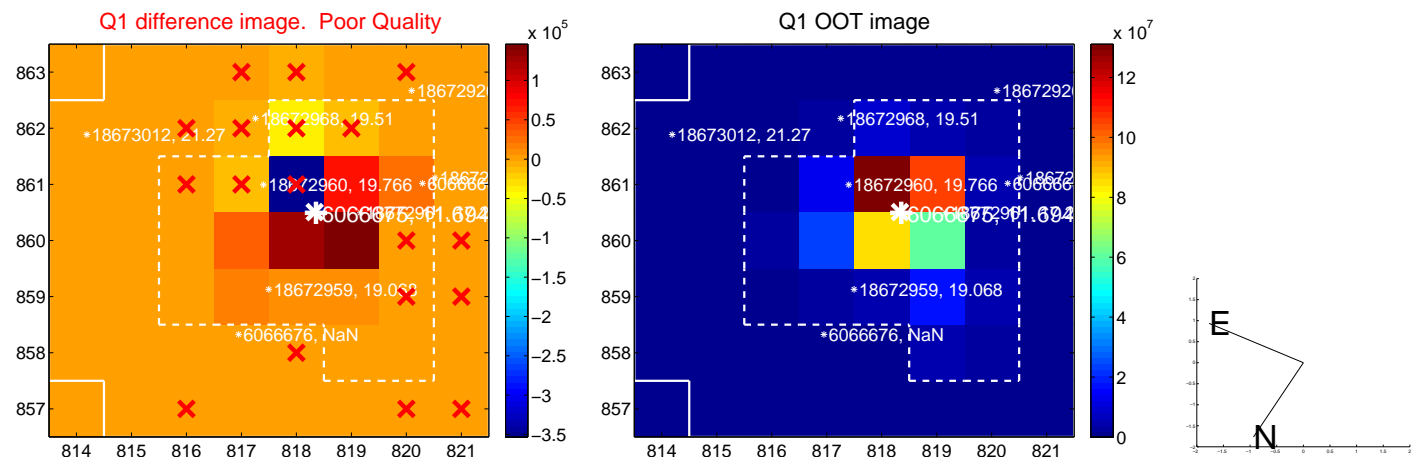


There is no PRF-fit offset from KIC

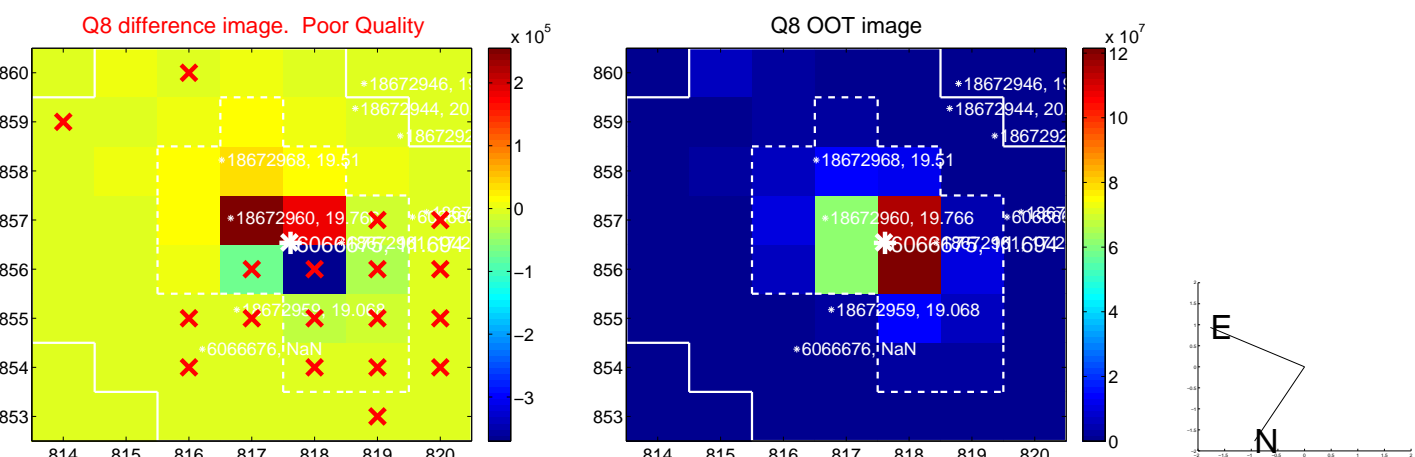
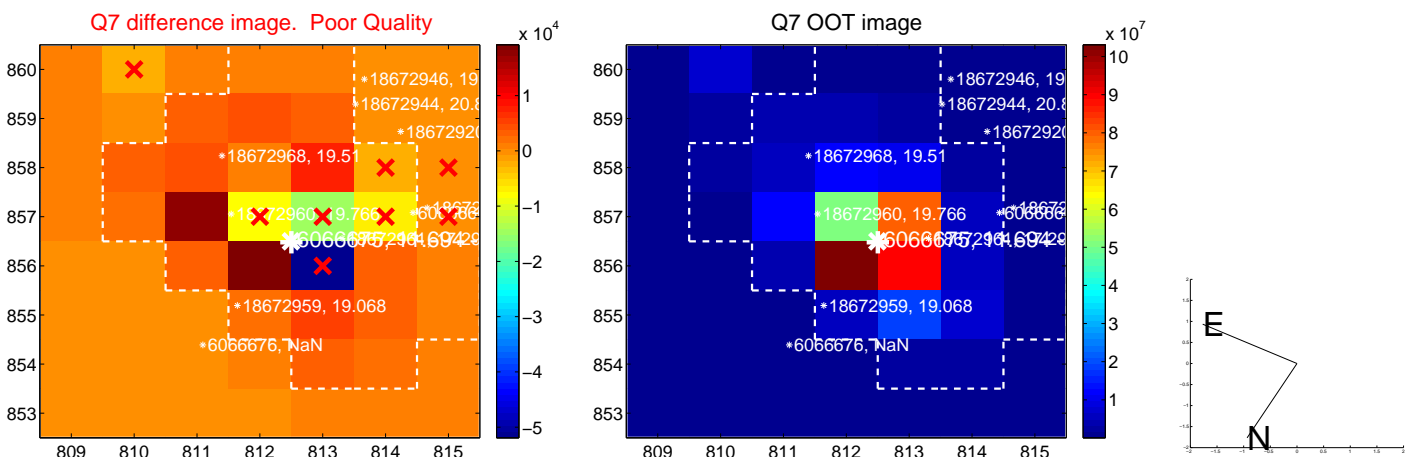
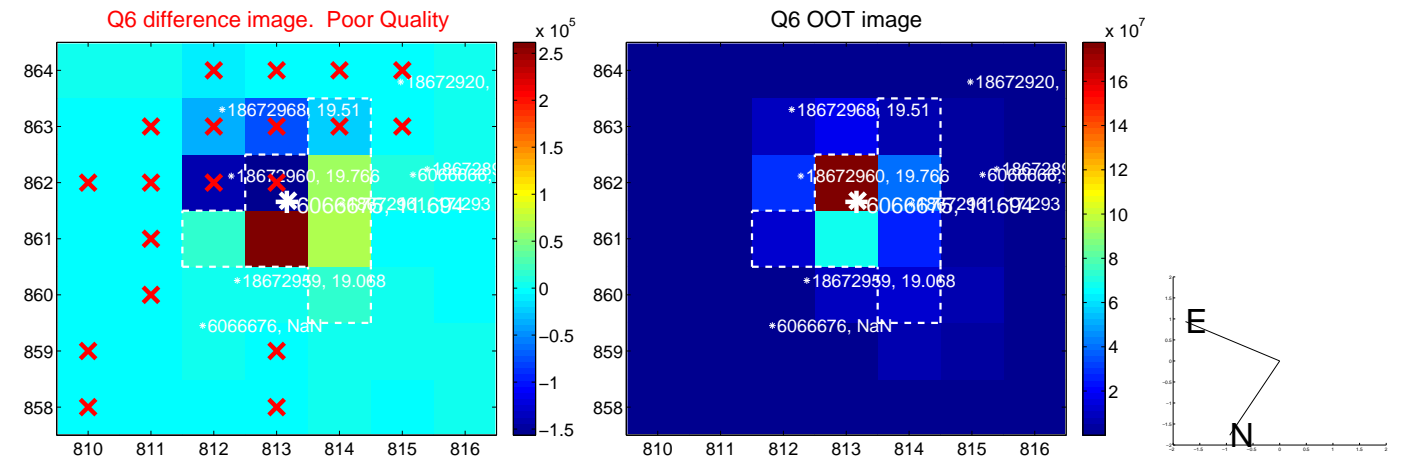
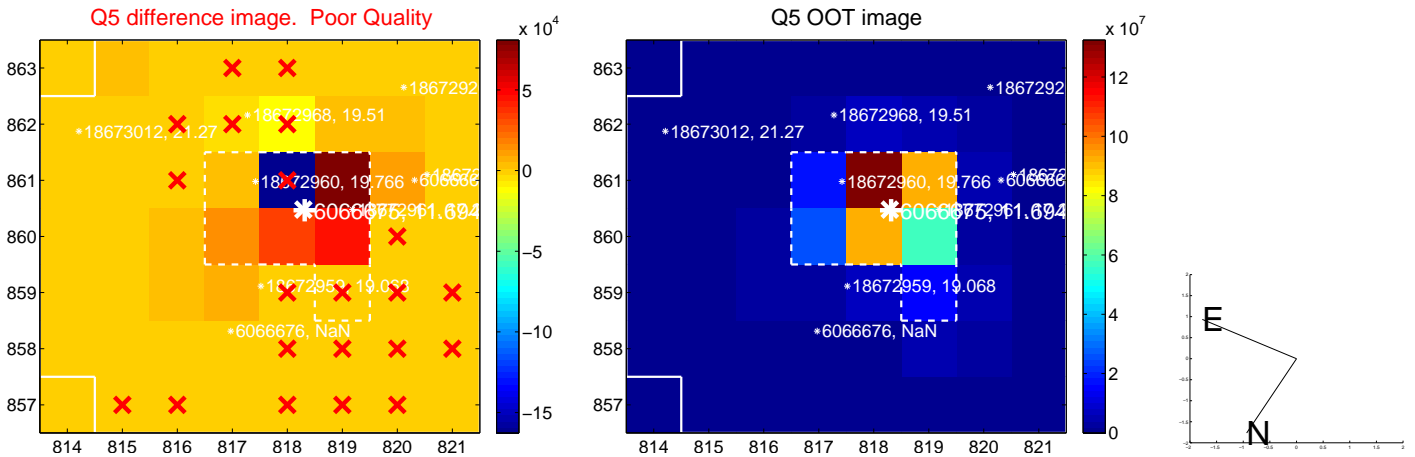


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

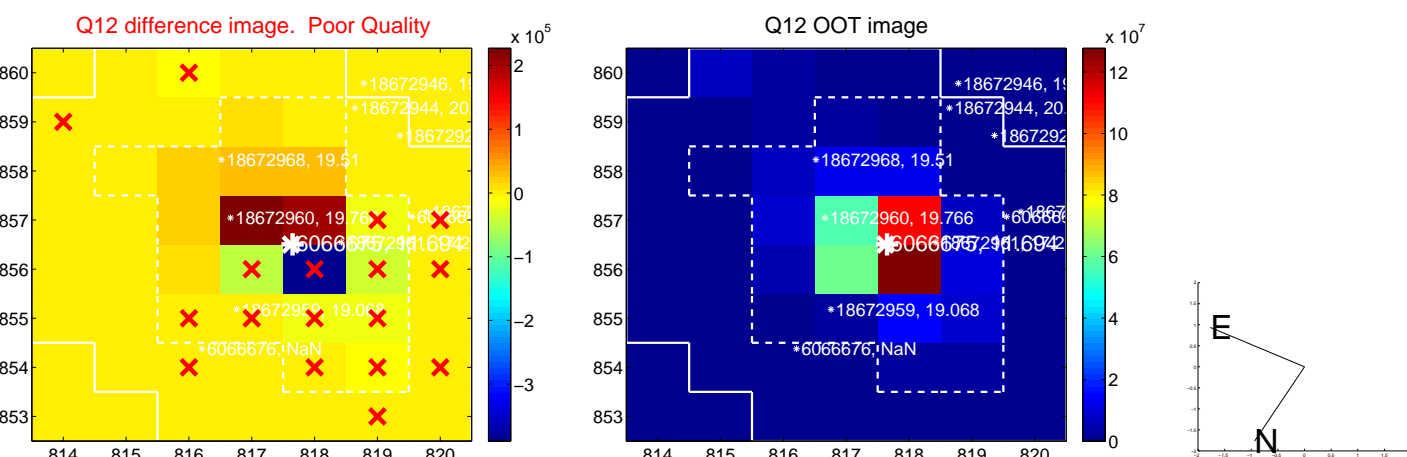
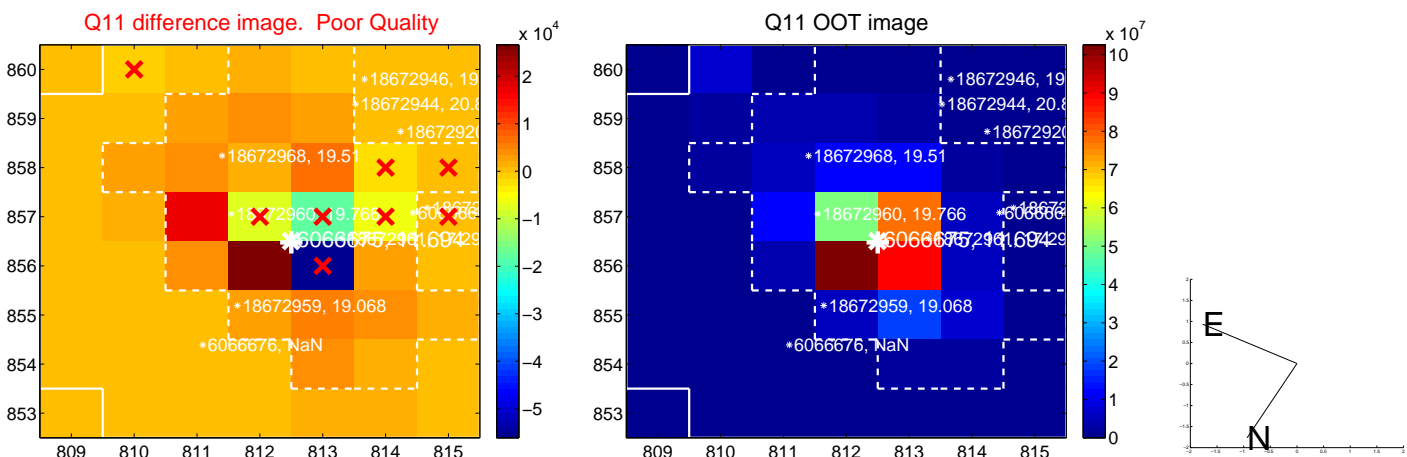
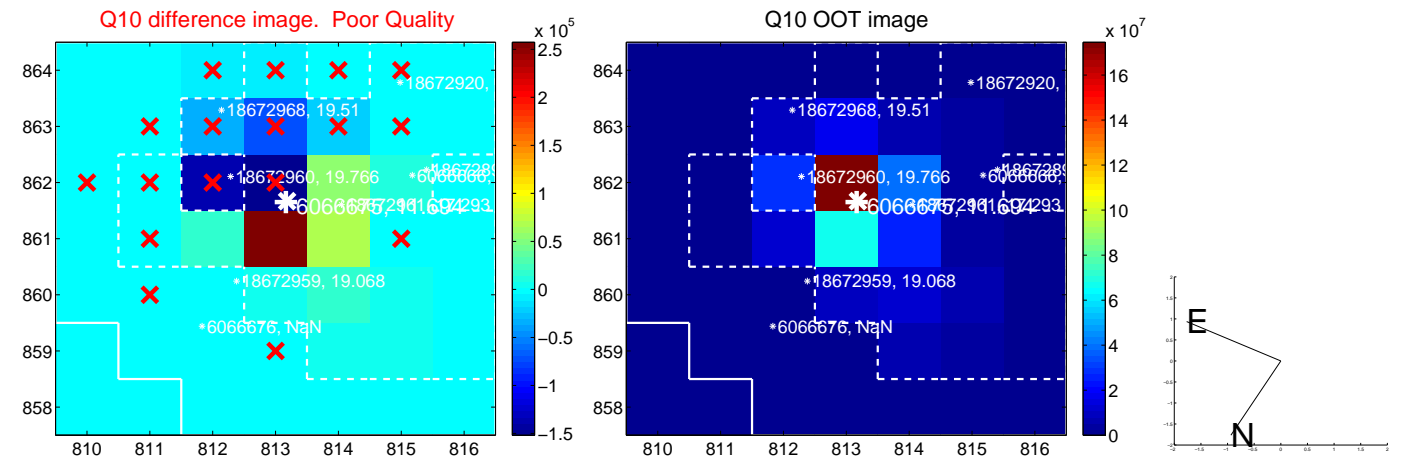
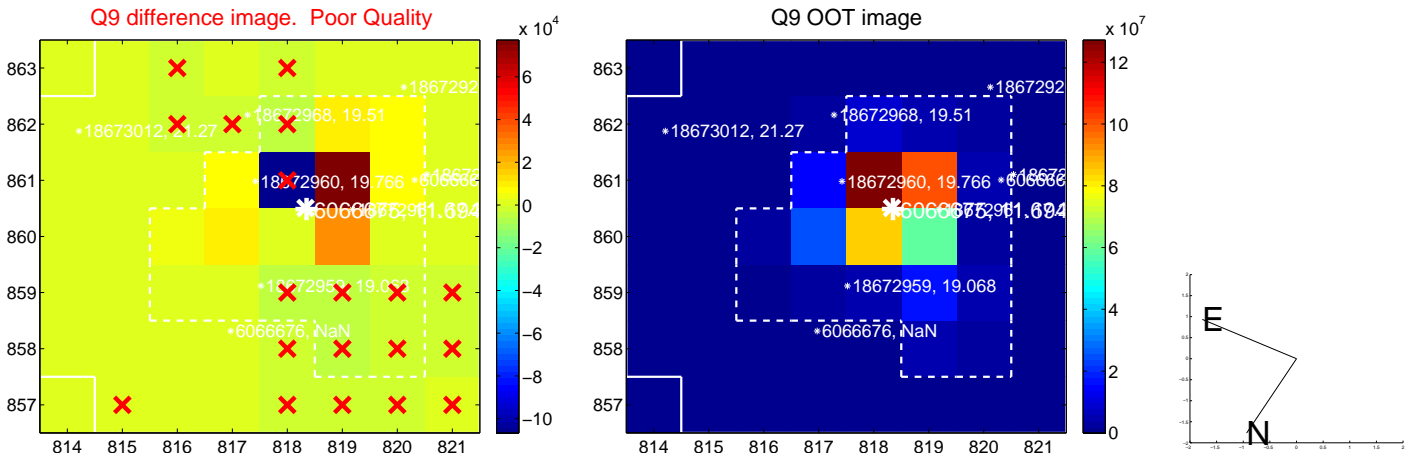
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



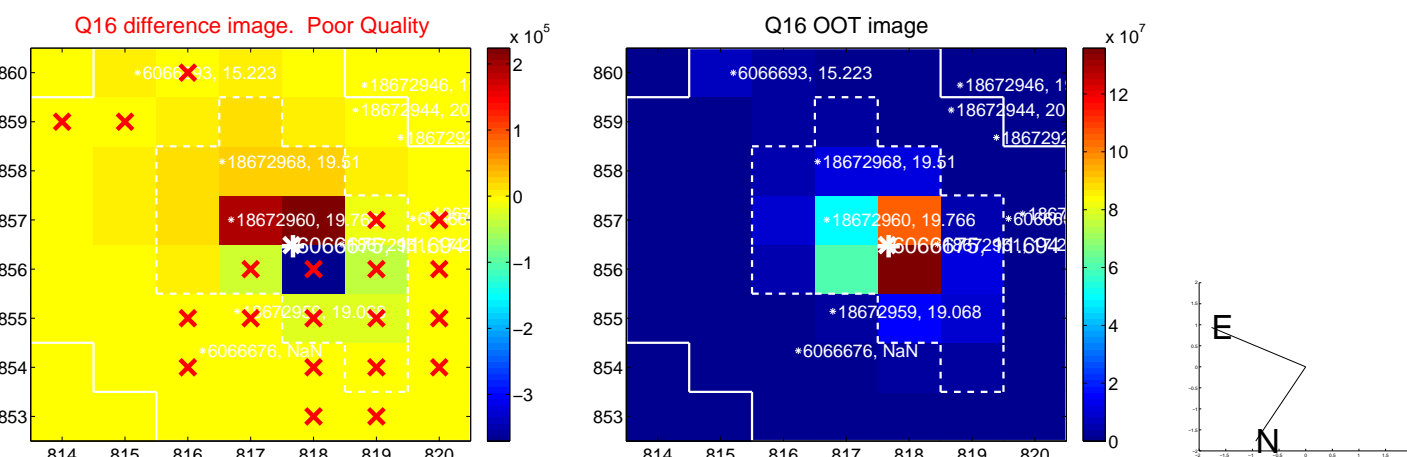
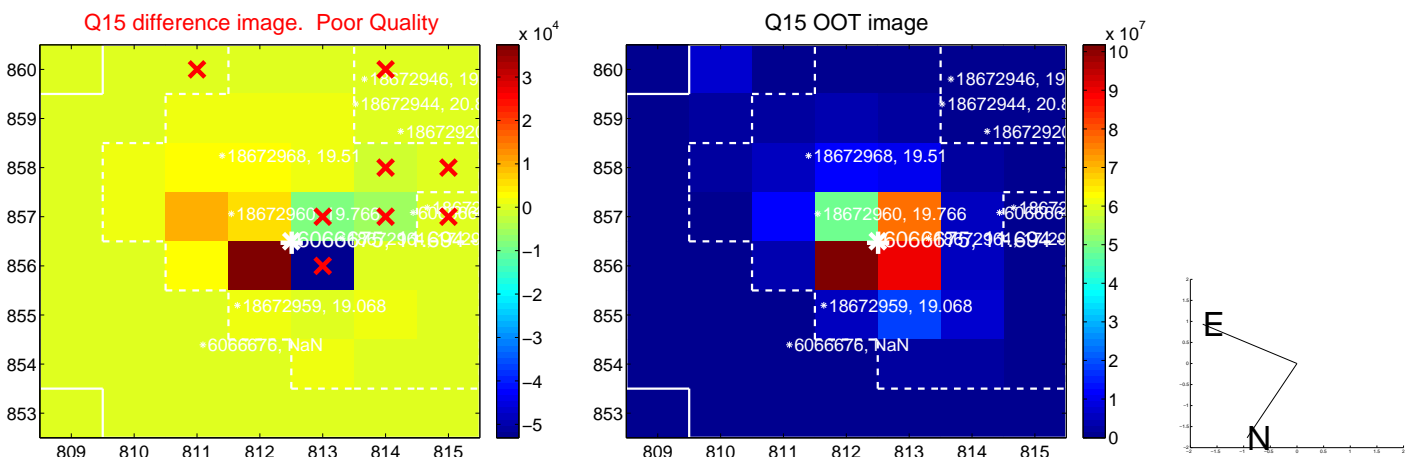
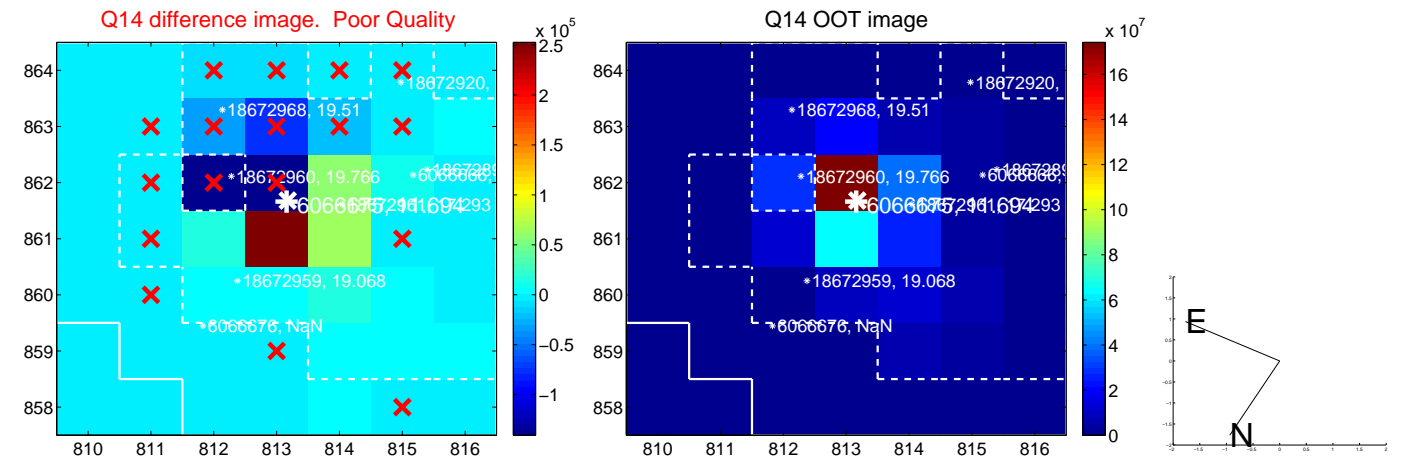
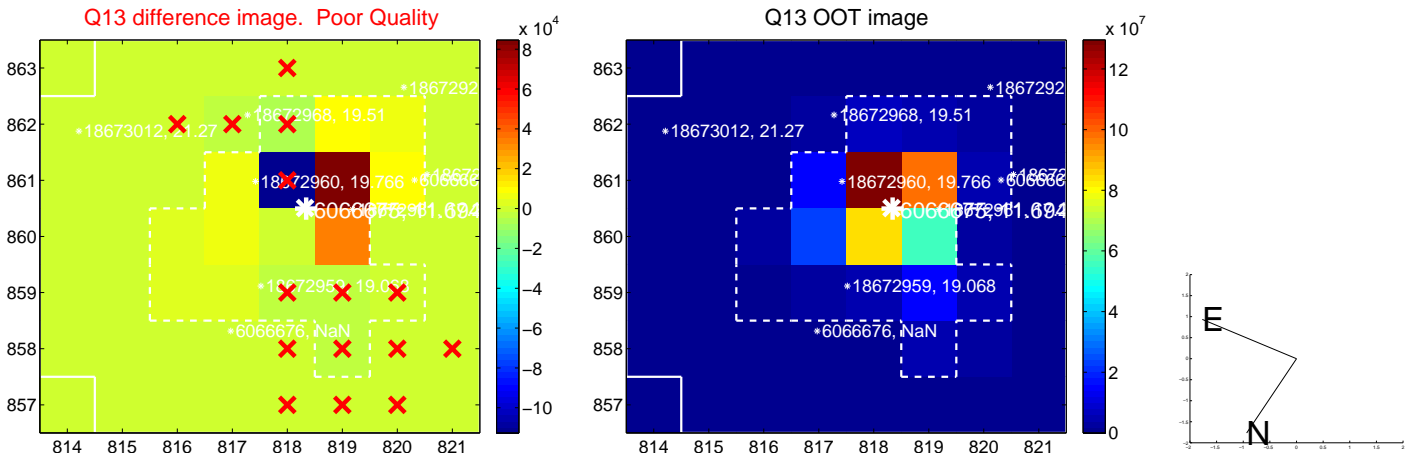
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



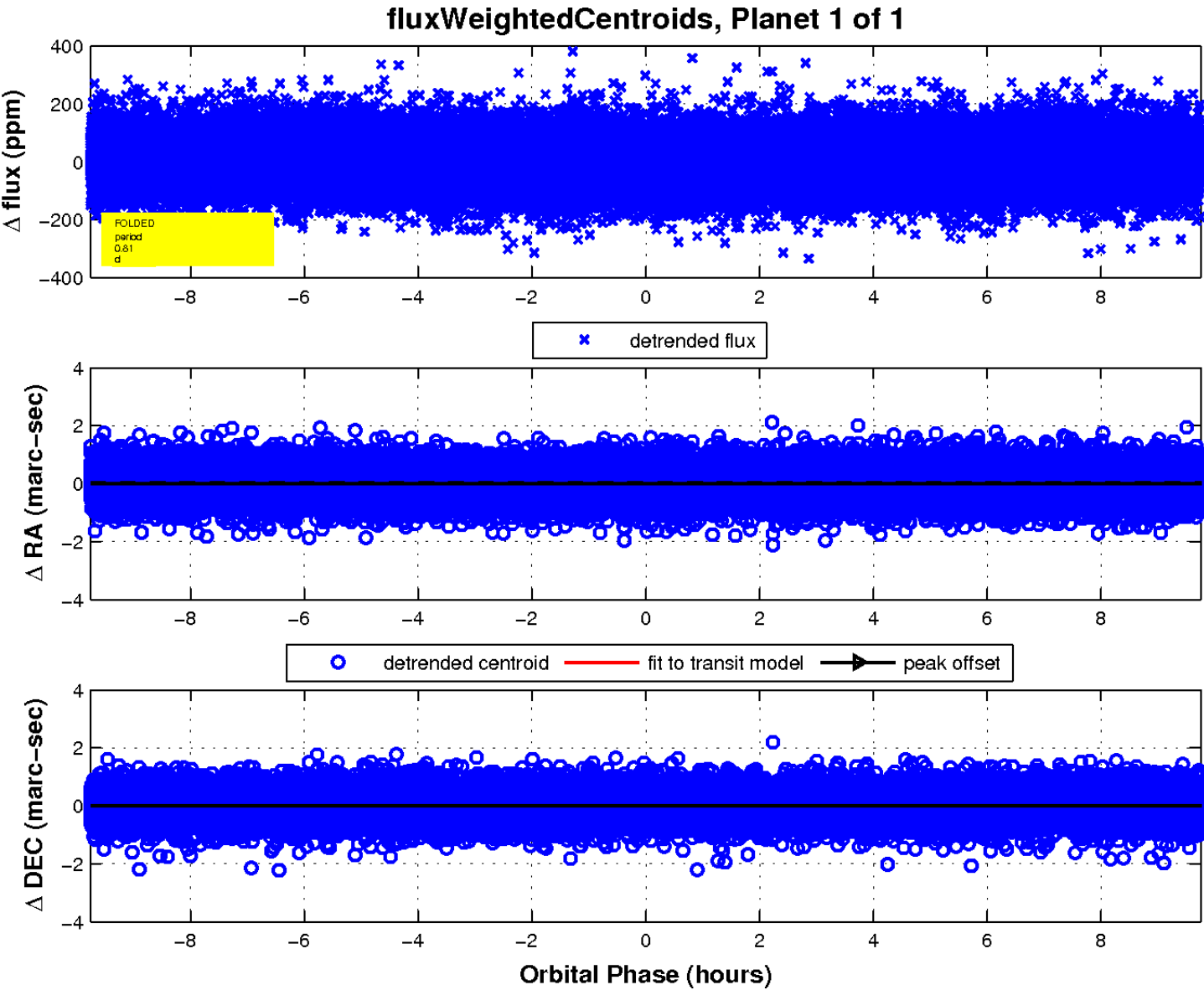
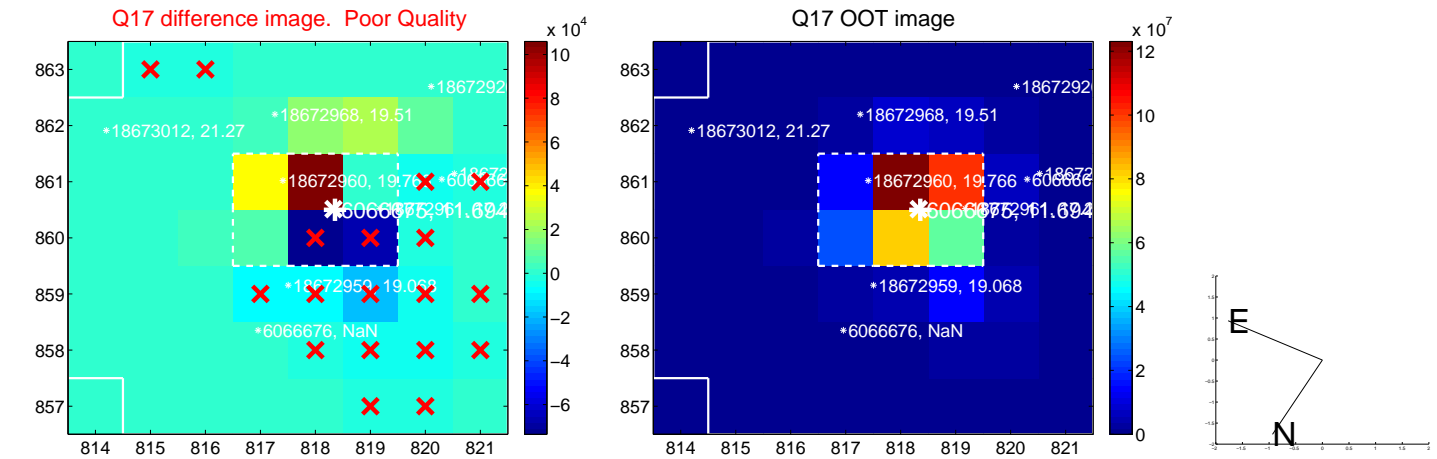
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

