

KIC 007773133

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})
007773133-01	OBS	No	0.565813	131.931725	56.5	6.790	10.5	3.8	3.86	6977	2.93	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007773133-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—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.

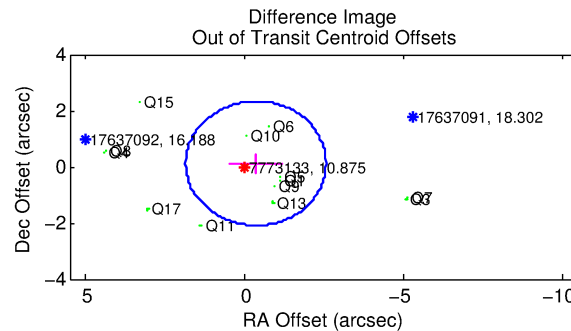
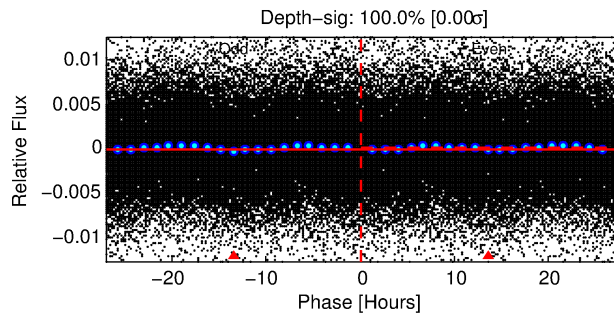
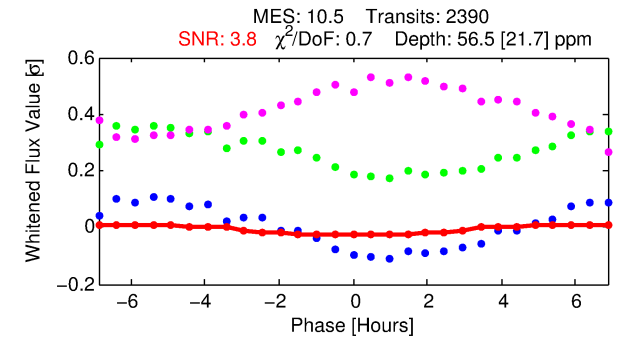
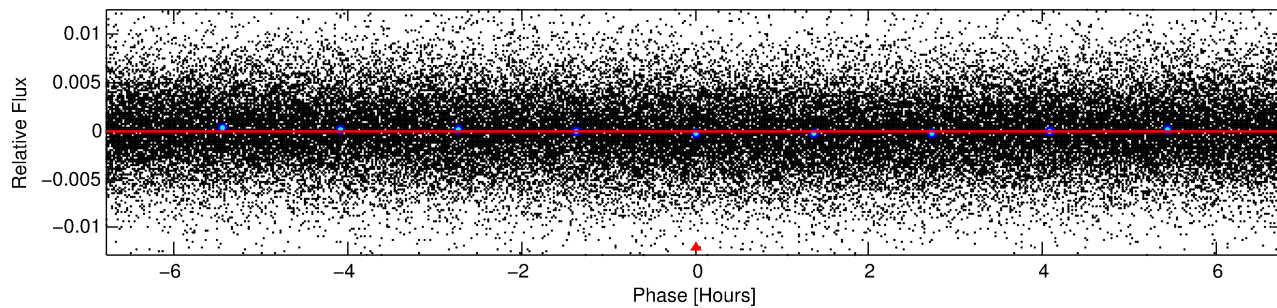
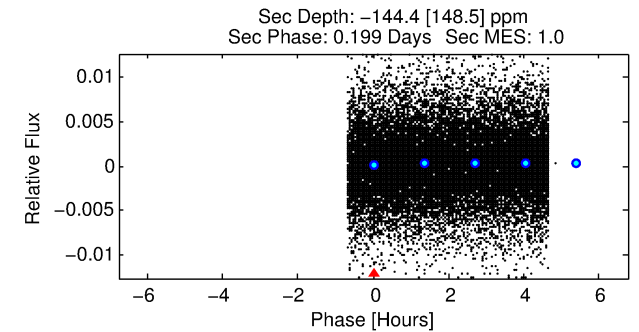
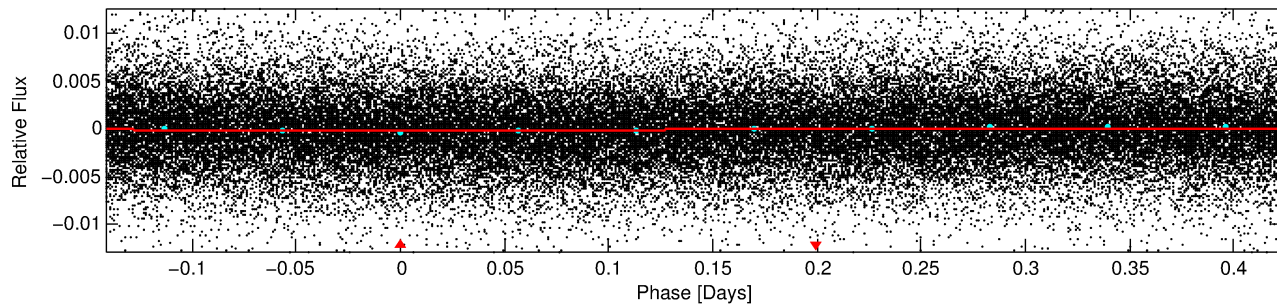
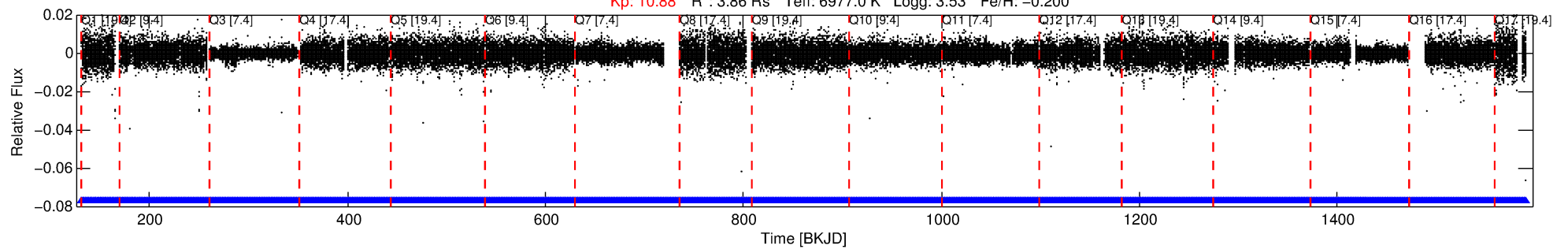
Ephemeris Match Information For 007773133-01

No Significant Match Found

DV One-Page Summary

KIC: 7773133 Candidate: 1 of 1 Period: 0.566 d

Kp: 10.88 R*: 3.86 Rs Teff: 6977.0 K Logg: 3.53 Fe/H: -0.200



DV Fit Results:

Period = 0.56581 [0.00003] d
Epoch = 131.9317 [0.0203] BKJD
Rp/R* = 0.0070 [0.0151]
a/R* = 1.00 [0.04]
b = 0.06 [195.87]
Seff = N/A
Teq = N/A
Rp = 2.93 [6.58] Re
a = N/A
Ag = N/A
Teffp = N/A

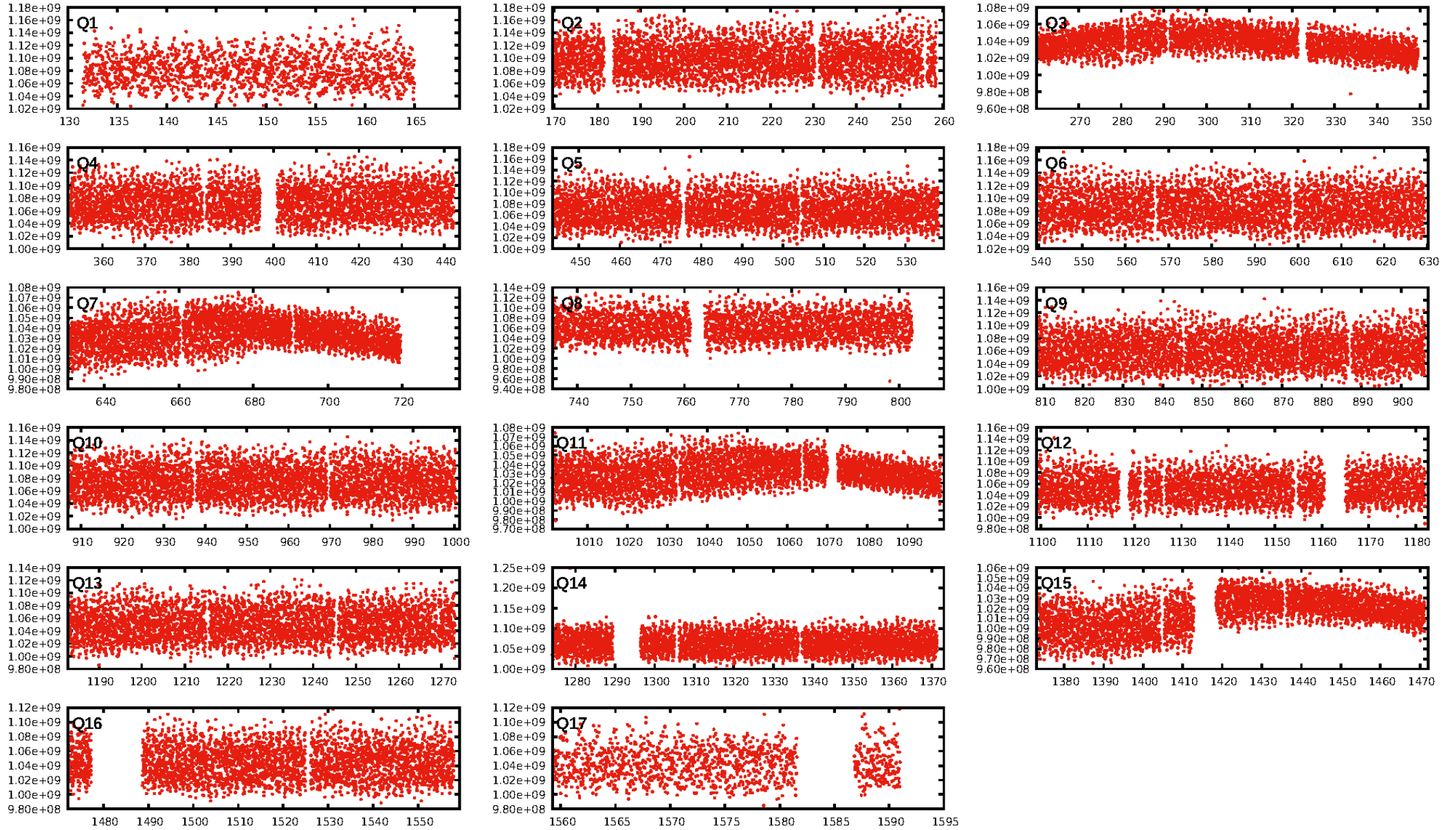
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2283/2283]
GhostDiagnostic-chr: 0.6497
Centroid-sig: 0.2%
Centroid-so: 0.479 arcsec [1.29σ]
OotOffset-rm: 0.373 arcsec [0.51σ]
KicOffset-rm: 2.451 arcsec [2.91σ]
OotOffset-st: 2/4/2/5 [13]
KicOffset-st: 2/4/2/5 [13]
DiffImageQuality-fgm: 0.38 [5/13]
DiffImageOverlap-fno: 1.00 [17/17]

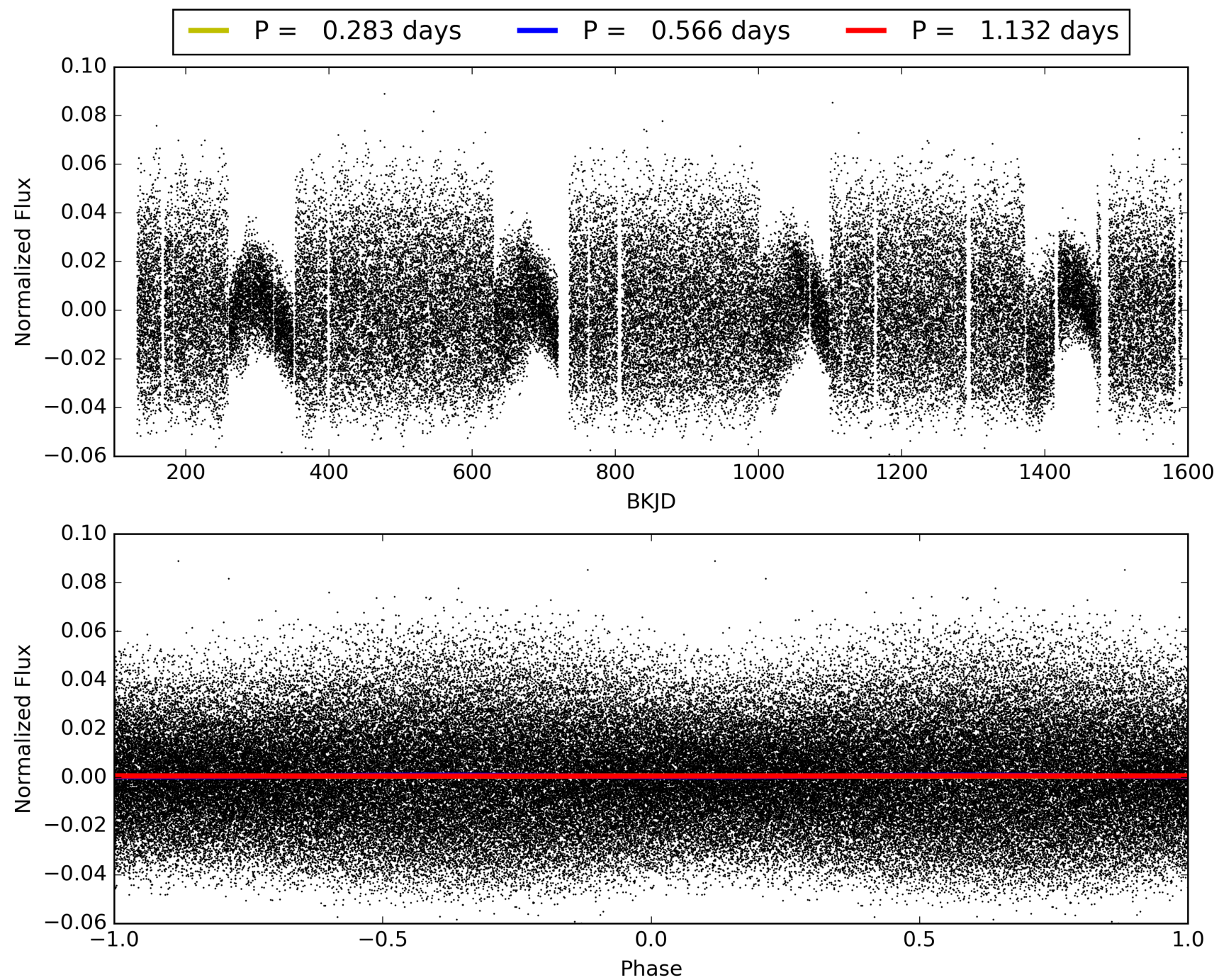
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:13:36 Z

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

TCE 007773133-01, PDC Light Curves

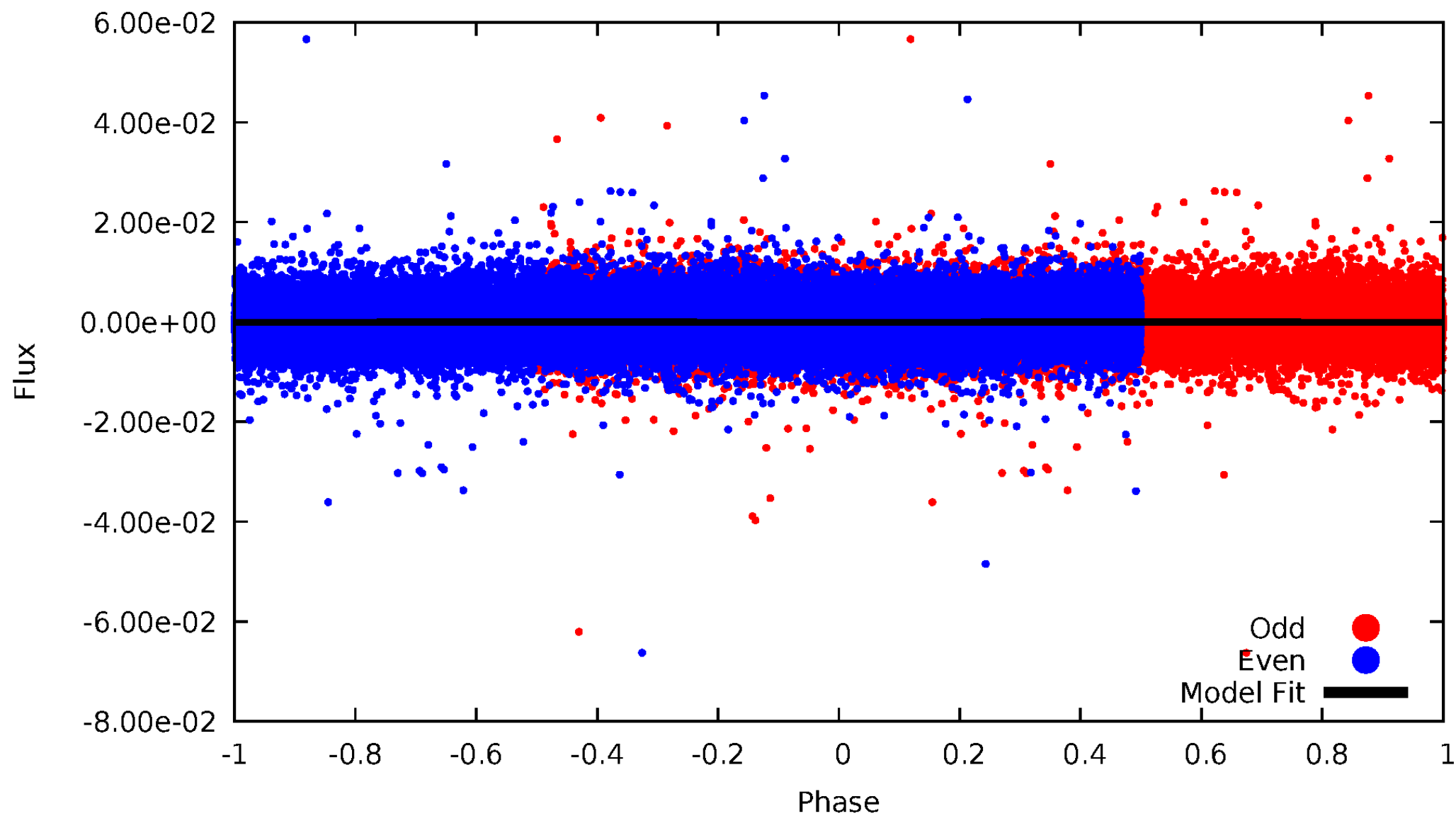


TCE 007773133-01



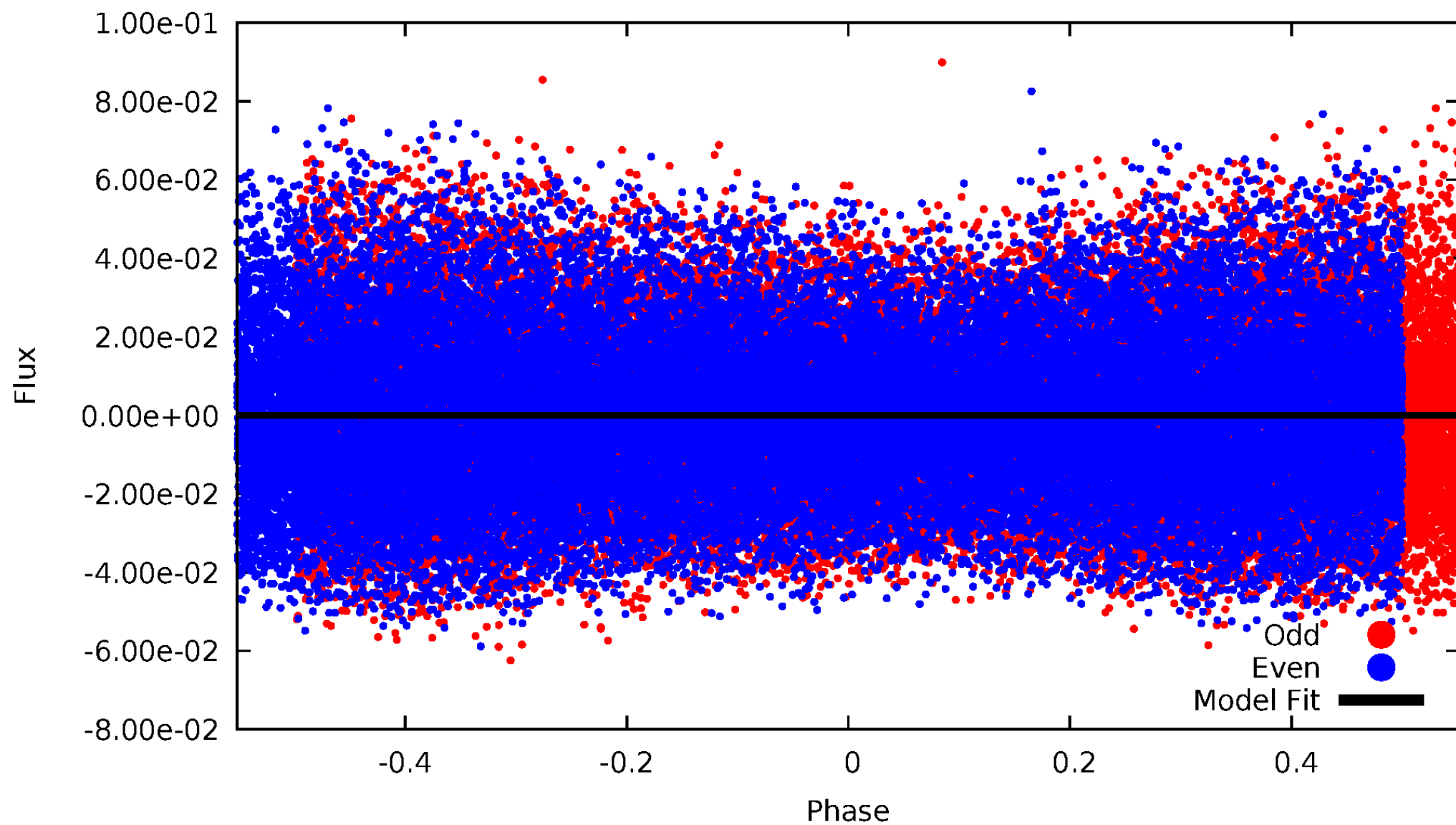
DV Odd/Even

TCE 007773133-01



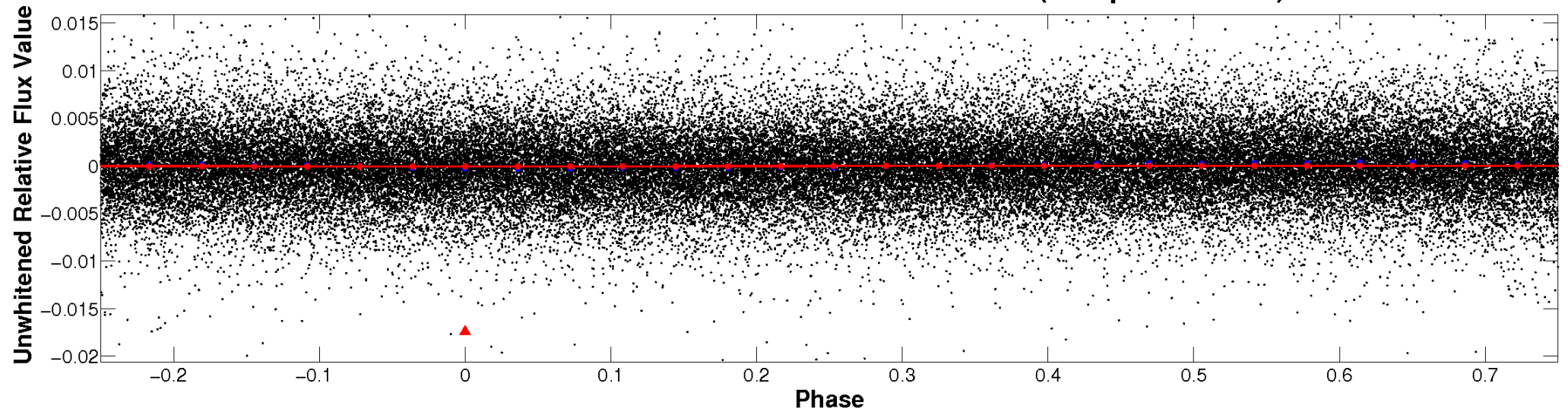
ALT Odd/Even

TCE 007773133-01

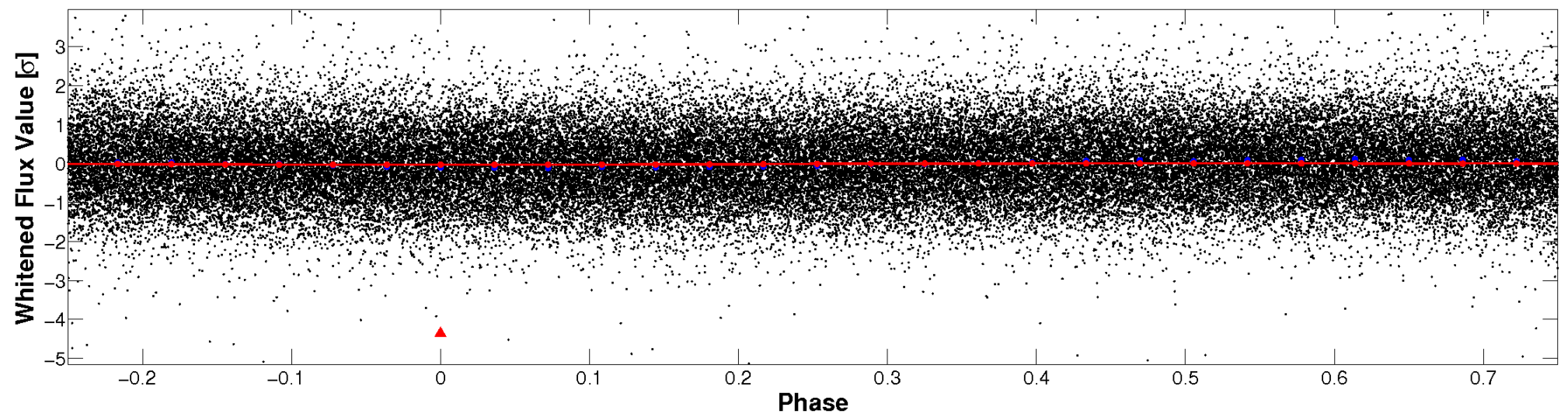


Non-Whitened Vs. Whitened Light Curve

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

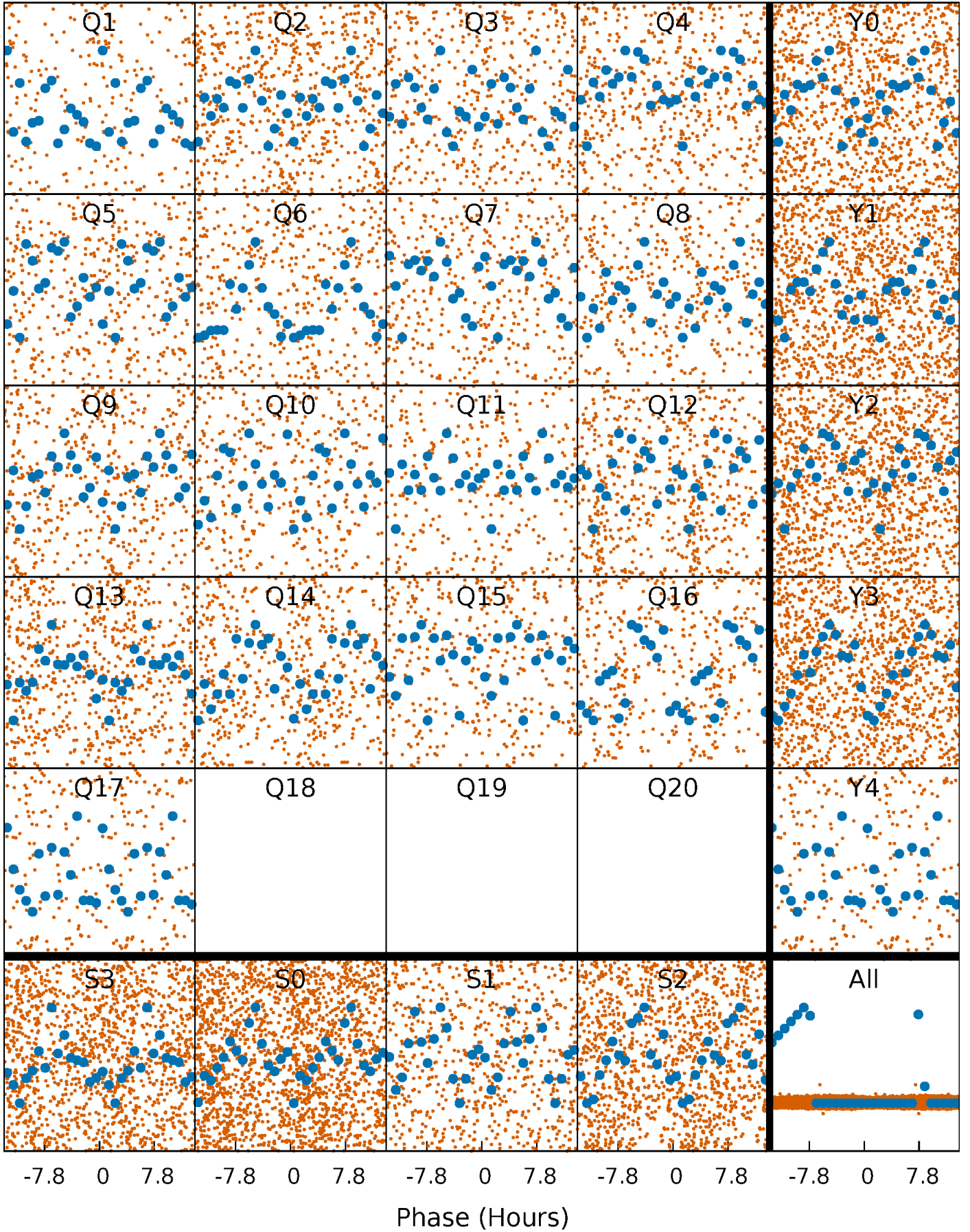


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



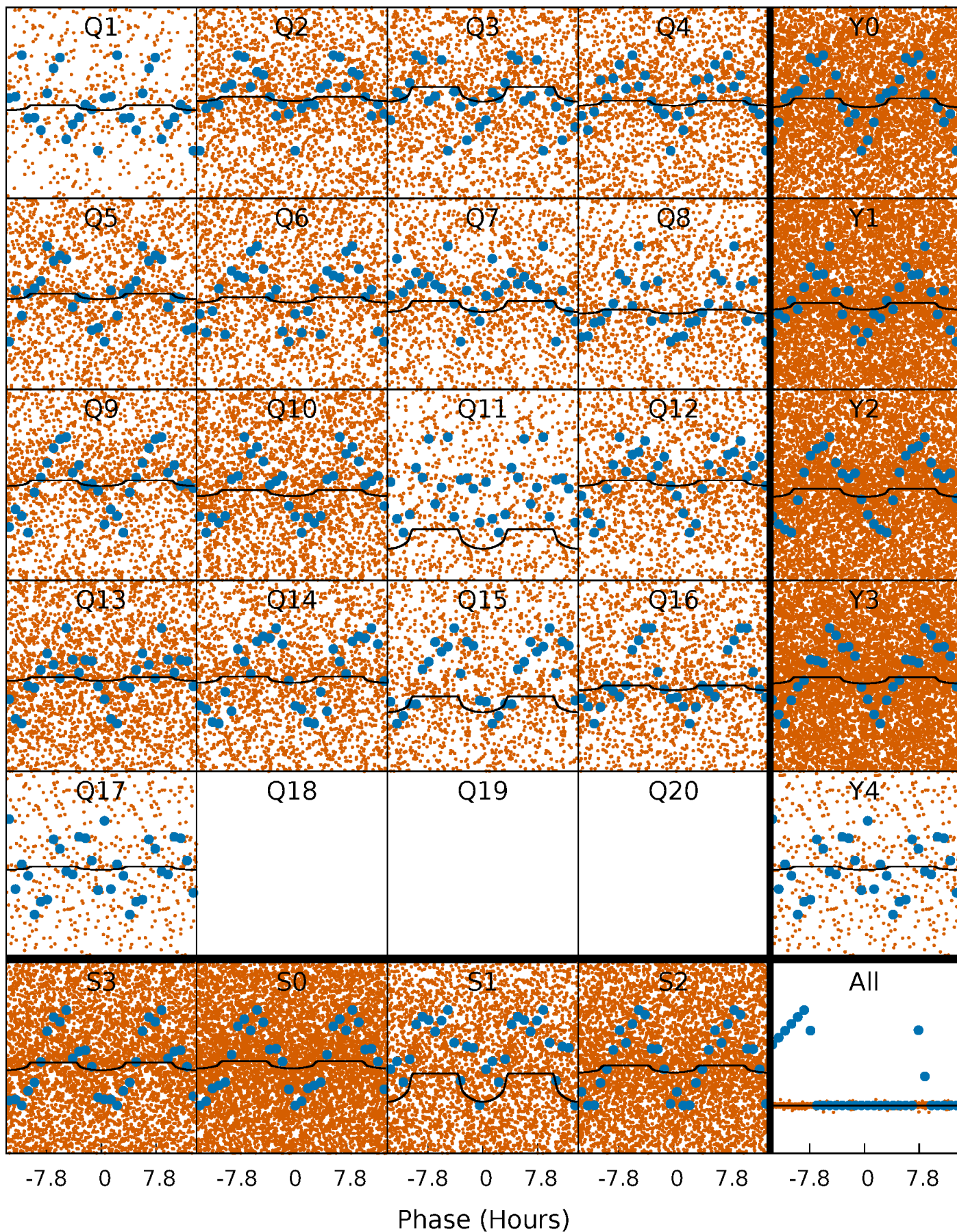
PDC Quarter-Phased Transit Curves

TCE 007773133-01 P= 0.565813 Days $T_0=131.931725$ (BKJD)



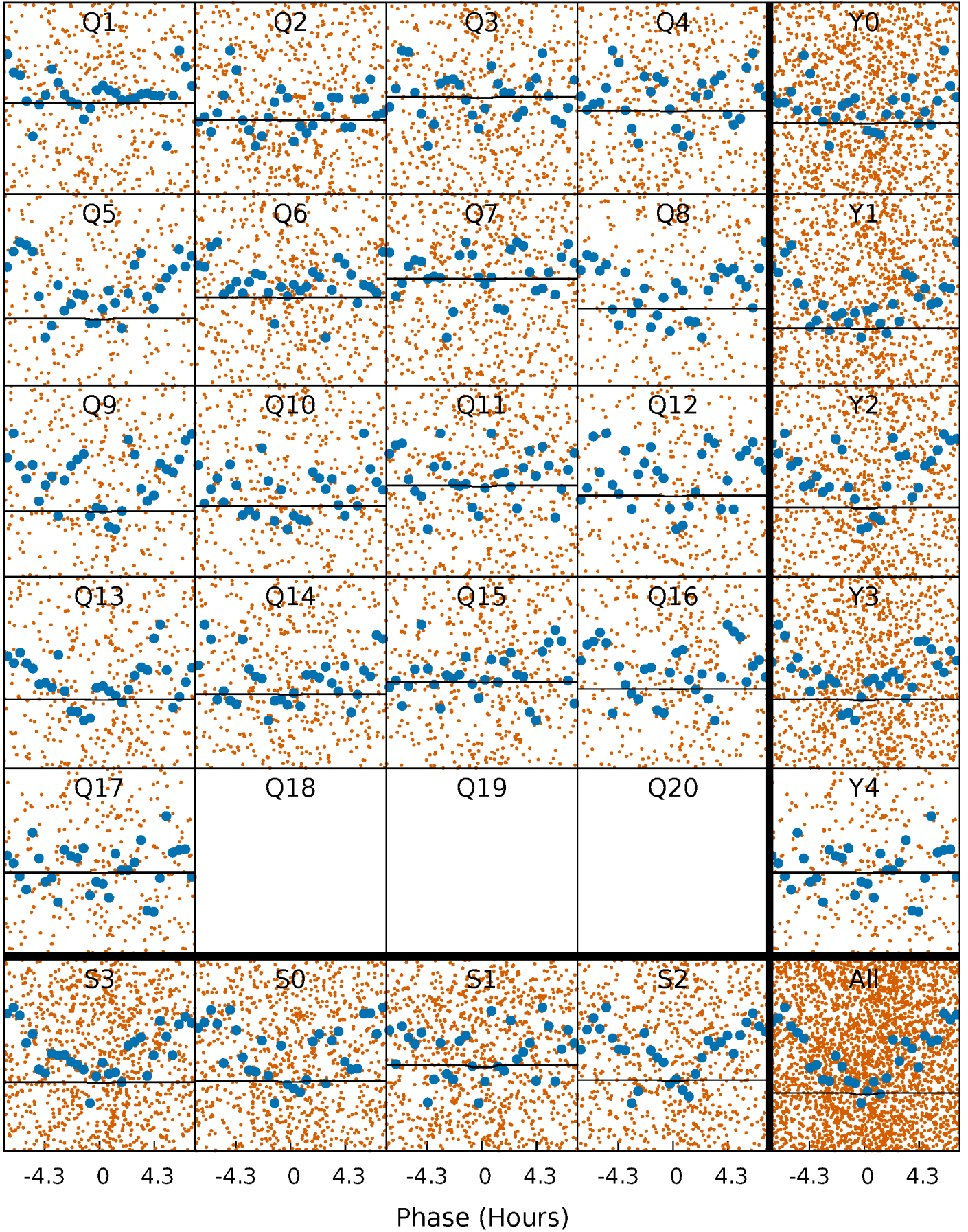
DV Quarter-Phased Transit Curves

TCE 007773133-01 P= 0.565813 Days $T_0=131.931725$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

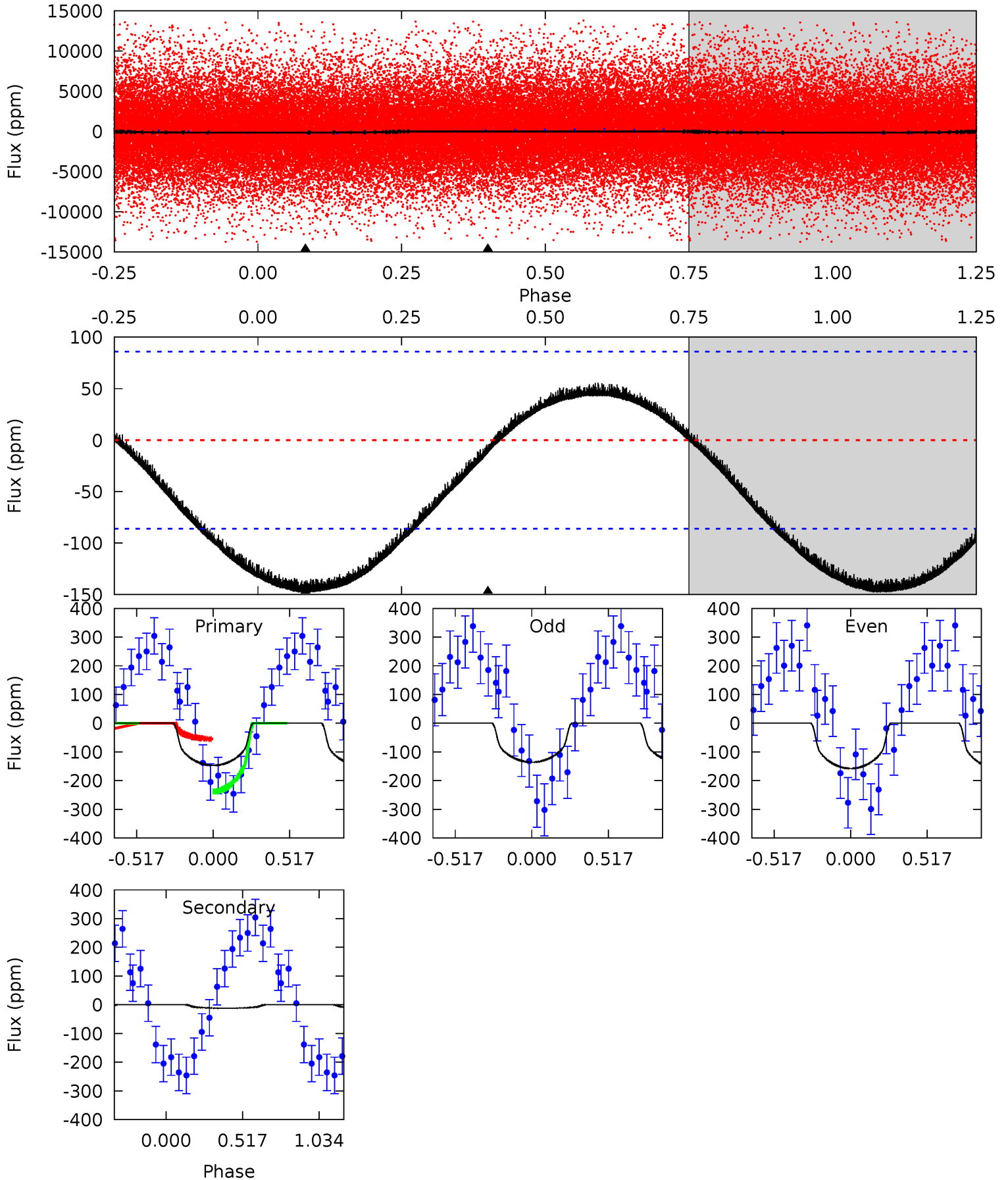
TCE 007773133-01 P= 0.565877 Days $T_0=131.912485$ (BKJD)



DV Model-Shift Uniqueness Test

007773133-01, P = 0.565813 Days, E = 131.365912 Days

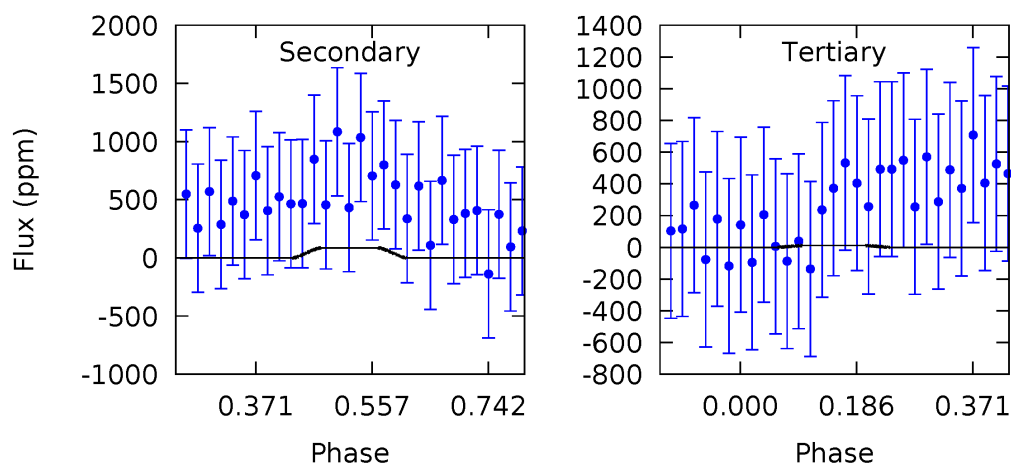
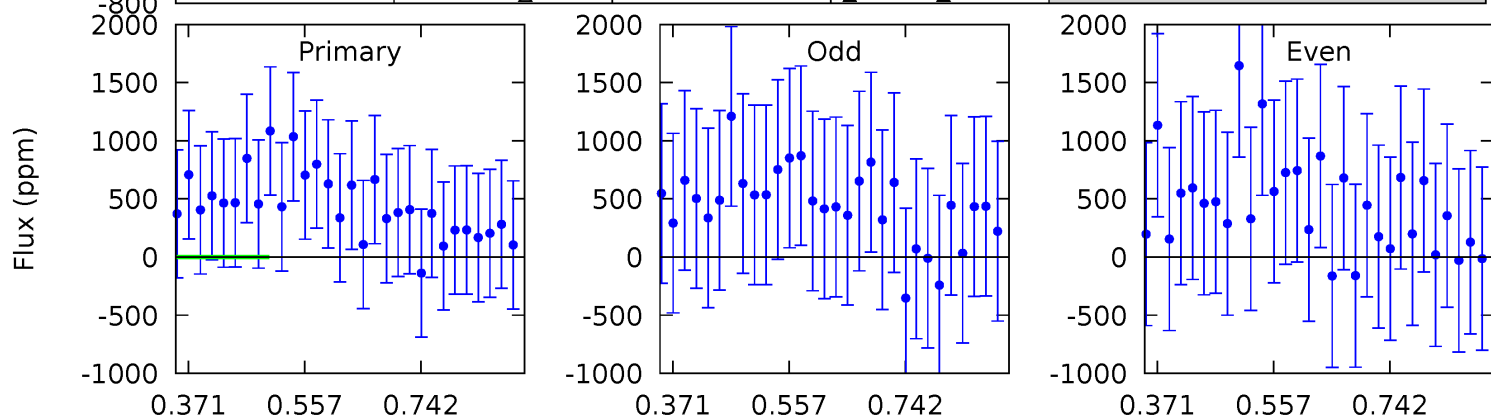
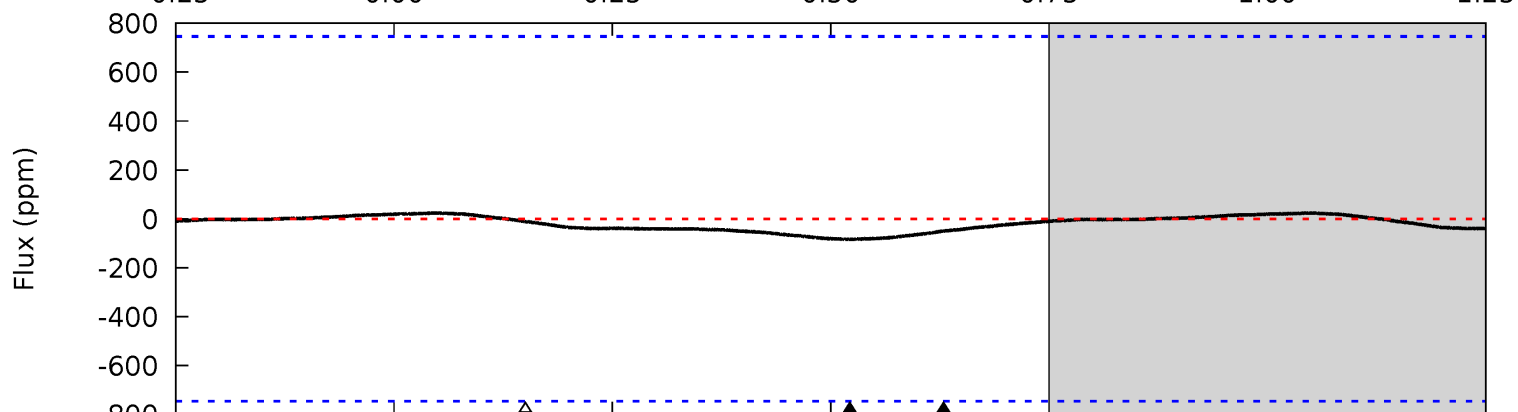
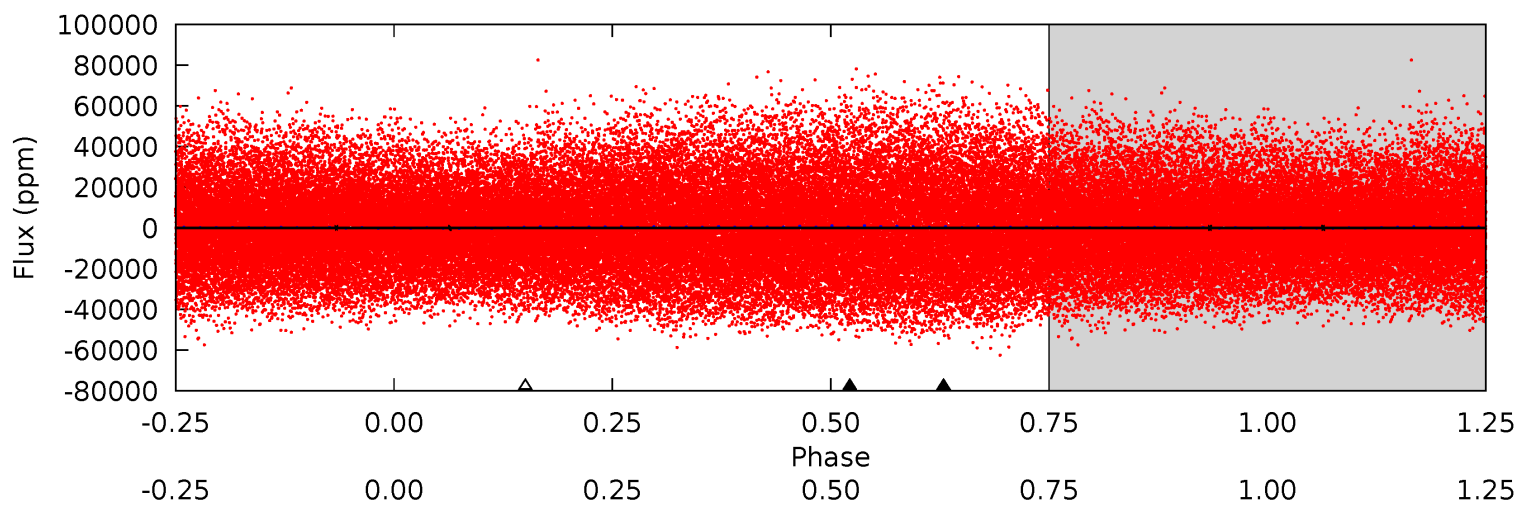
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.20	0.60	0	0	4.21	0.65	0.74	7.20	7.20	0.60	0.60	0.54	1.26	0.28	4.62



Alt Model-Shift Uniqueness Test

007773133-01, P = 0.565877 Days, E = 131.346608 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.30	0.50	0.07	0	4.43	1.32	0.14	0.23	0.30	0.43	0.50	0.25	0.07	0.22	0.25



Stellar Parameters For KIC 007773133

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6977^{+194}_{-243}	$3.533^{+0.595}_{-0.105}$	$-0.200^{+0.250}_{-0.300}$	$3.863^{+0.254}_{-2.287}$	$1.857^{+0.183}_{-0.550}$	$0.045^{+0.390}_{-0.010}$
	+3%/-3%	+17%/-3%	+125%/-150%	+7%/-59%	+10%/-30%	+860%/-22%
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 007773133-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-12 ± 20	$4.89^{+5.02}_{-3.51}$	6470^{+376}_{-917}	-4916^{+10453}_{-679}	$0.053^{+0.748}_{-0.086}$
Alt.	-85 ± 168	$4.44^{+4.86}_{-3.28}$	6479^{+349}_{-875}	3669^{+8608}_{-10472}	$0.353^{+5.538}_{-1.025}$

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 $A_{obs} \gg 1.0$

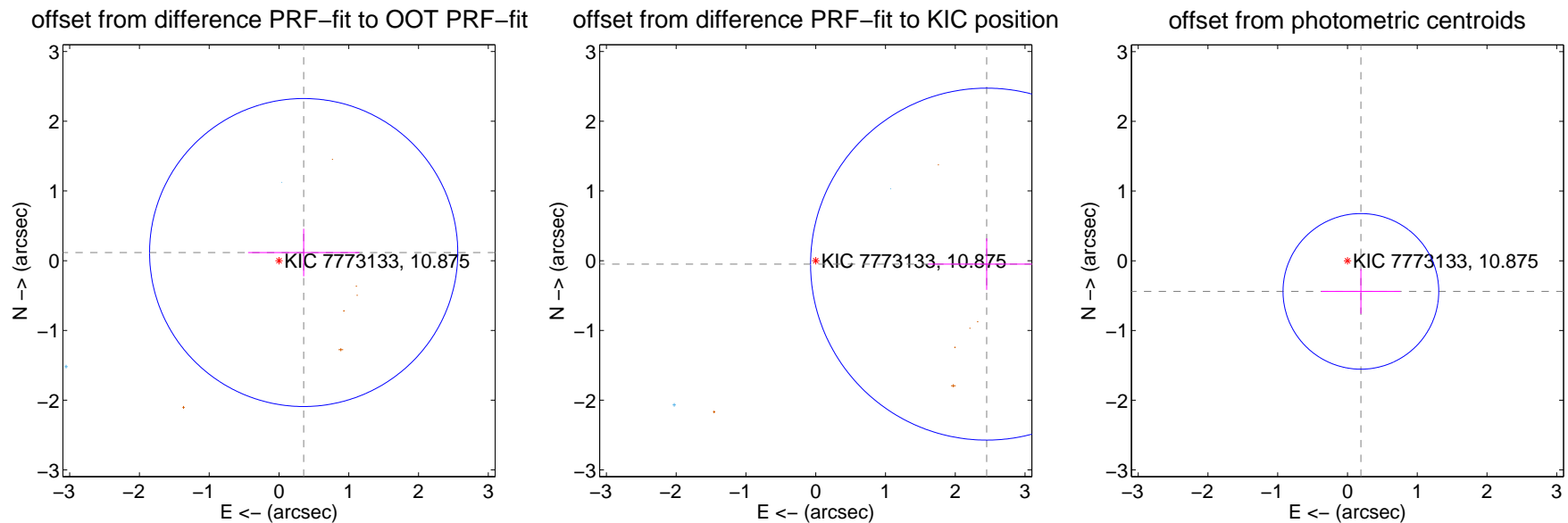
DV Centroid Data

Supplemental centroid analysis for 007773133-01. **Kepler magnitude: 10.88.** Transit SNR 3.84

There are 5 quarters with good PRF difference image offsets

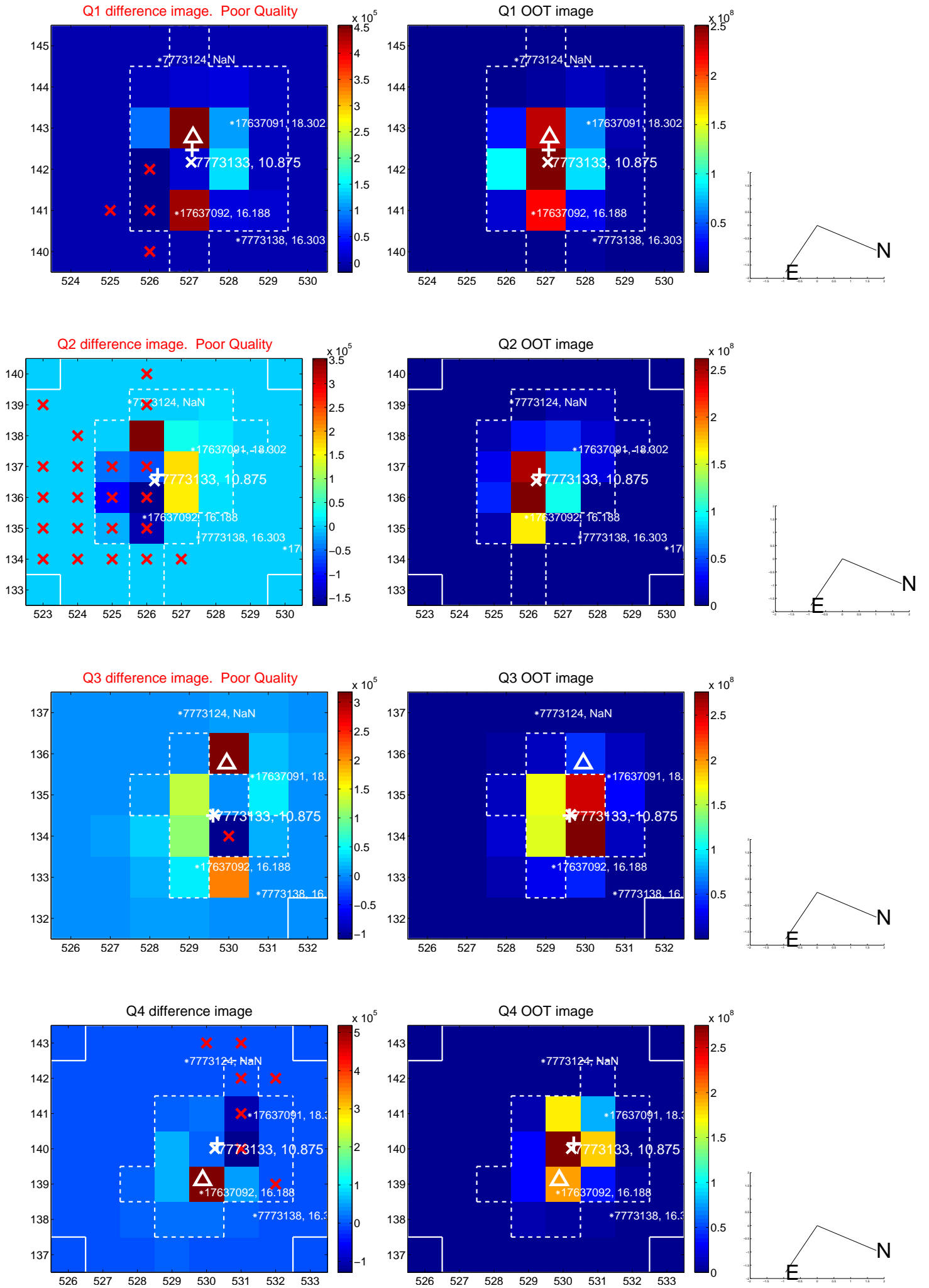
The direct PRF centroid is offset from the target star catalog position by about 1.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.373 ± 0.736	0.51	-0.354 ± 0.797	0.117 ± 0.341
PRF-fit source offset from KIC position	2.451 ± 0.841	2.91	-2.450 ± 0.838	-0.049 ± 0.369
photometric centroid source offset	0.48 ± 0.37	1.29	-0.19 ± 0.57	-0.44 ± 0.32

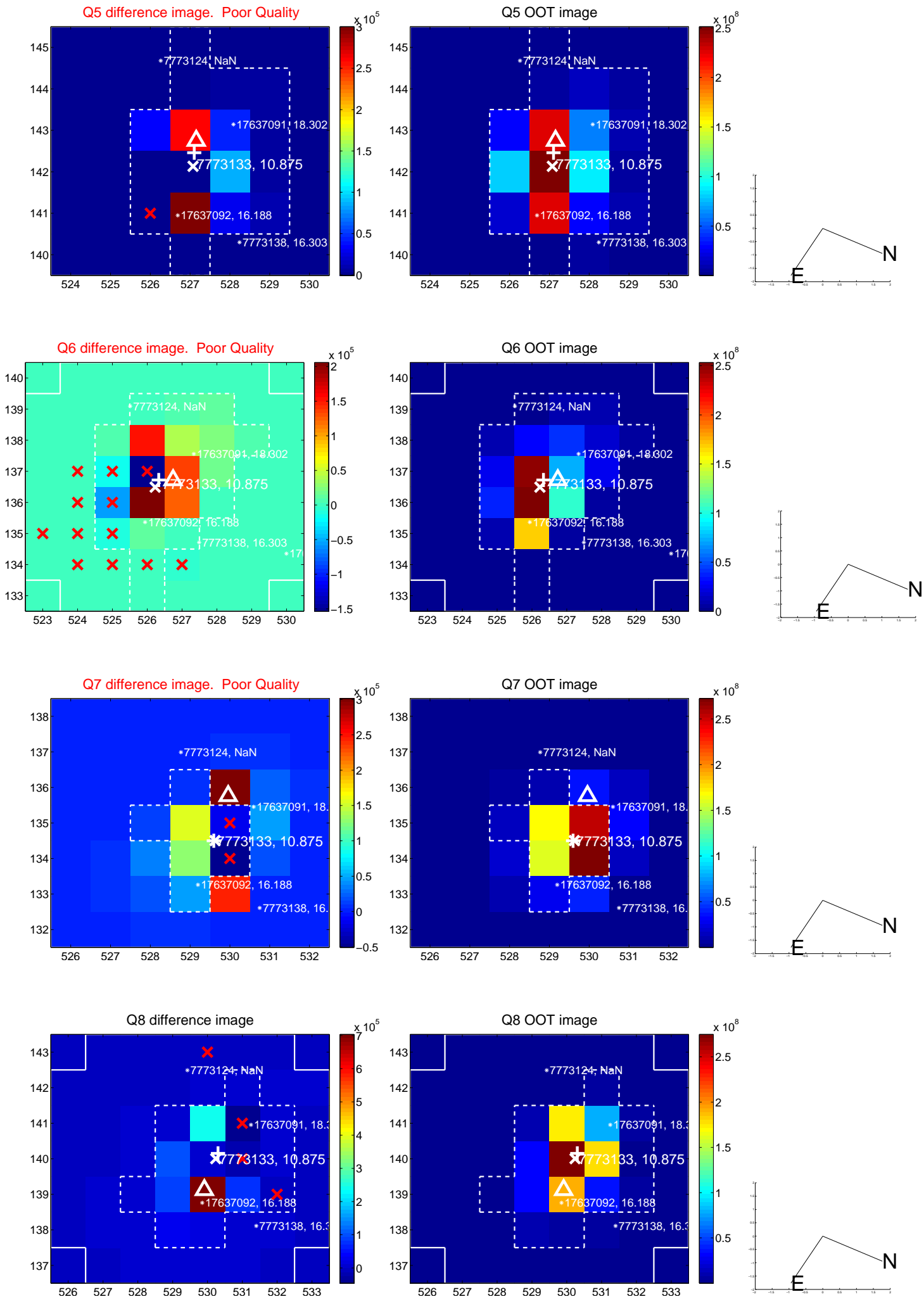


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

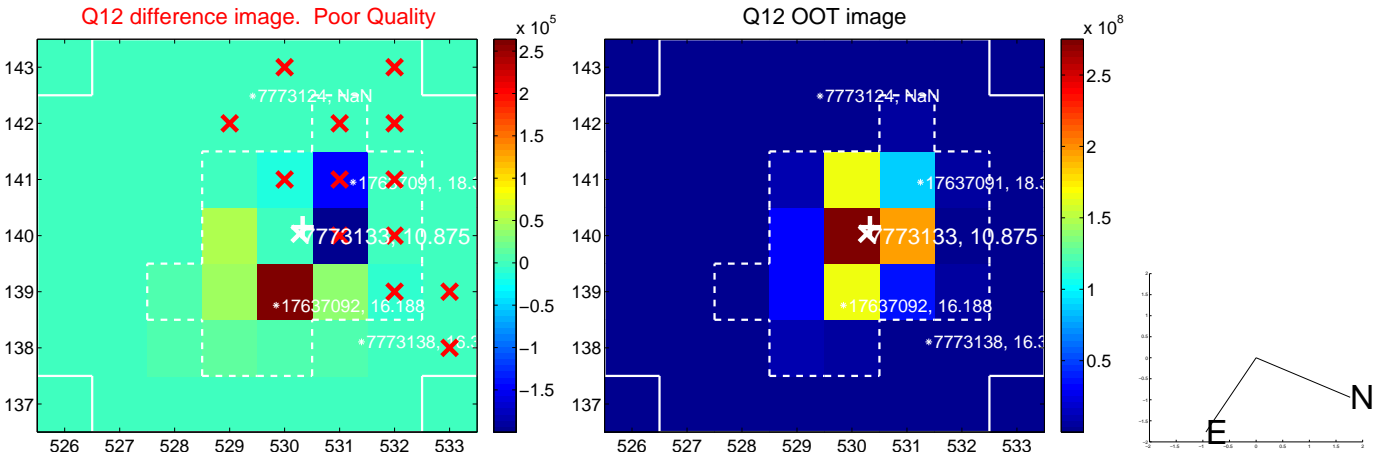
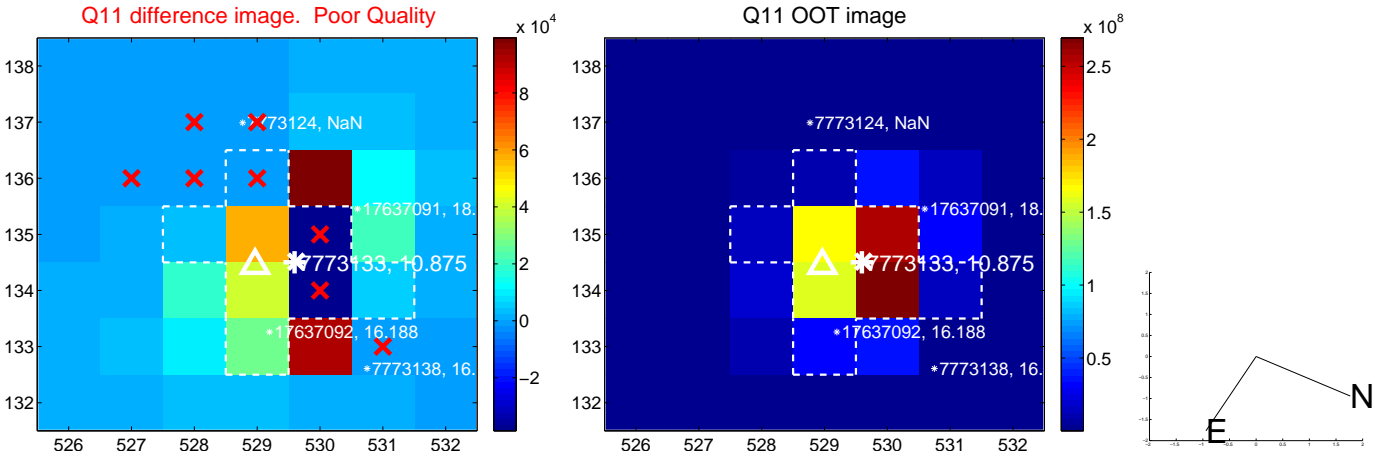
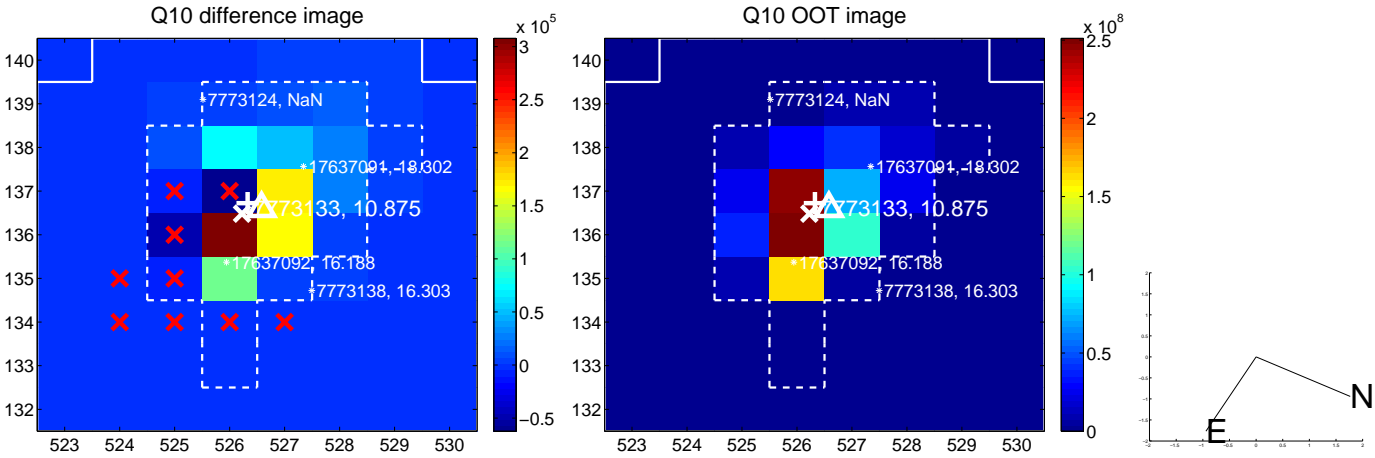
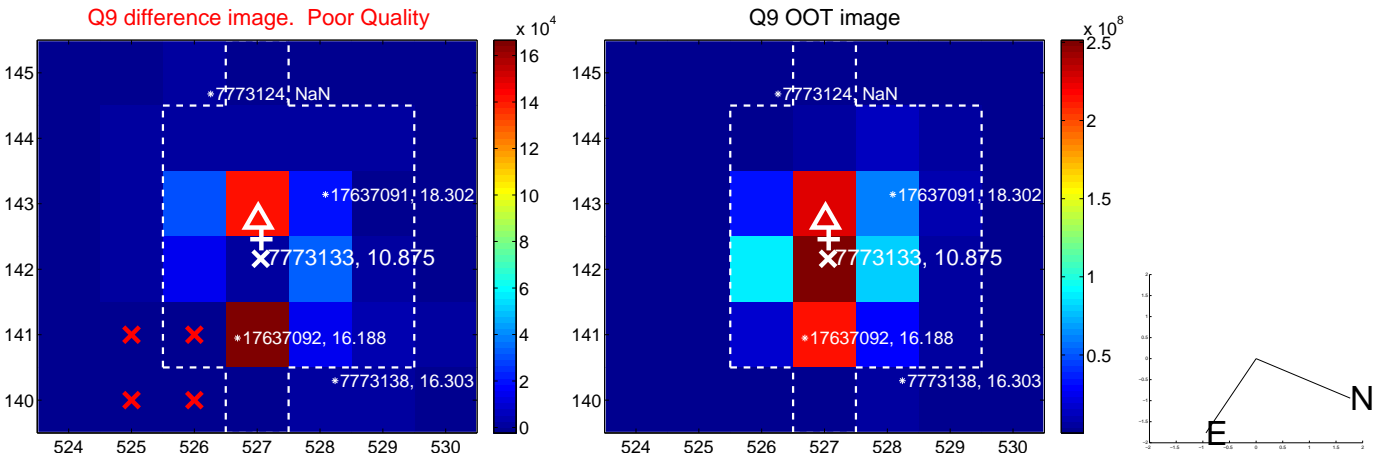
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



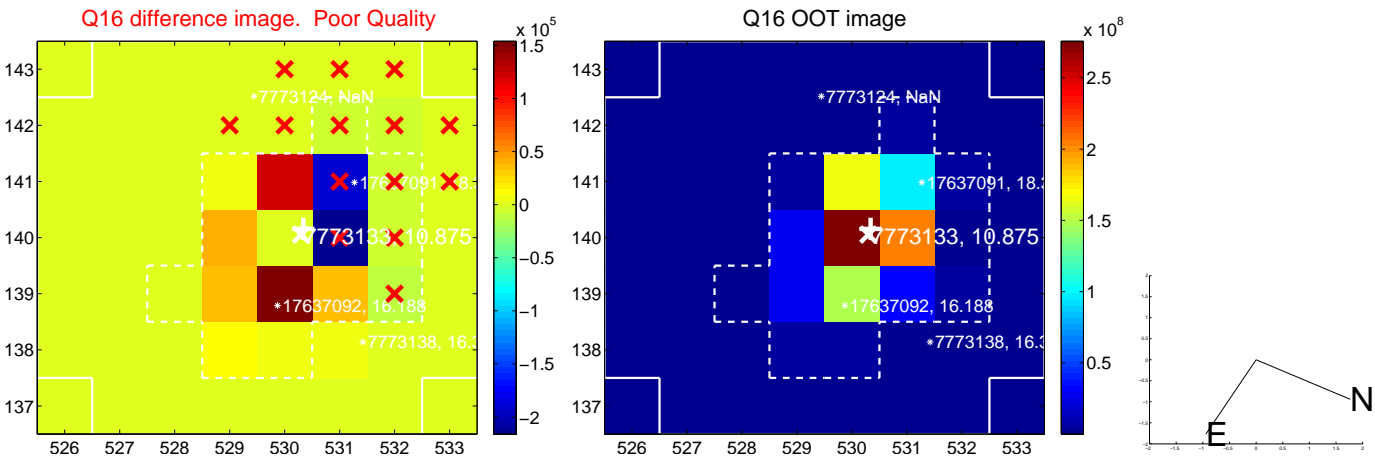
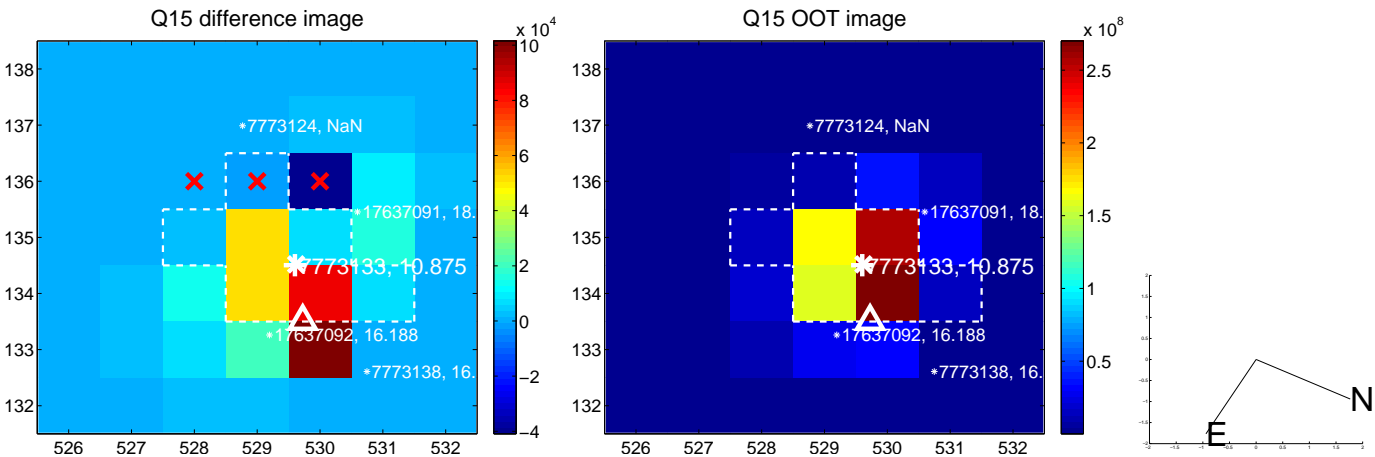
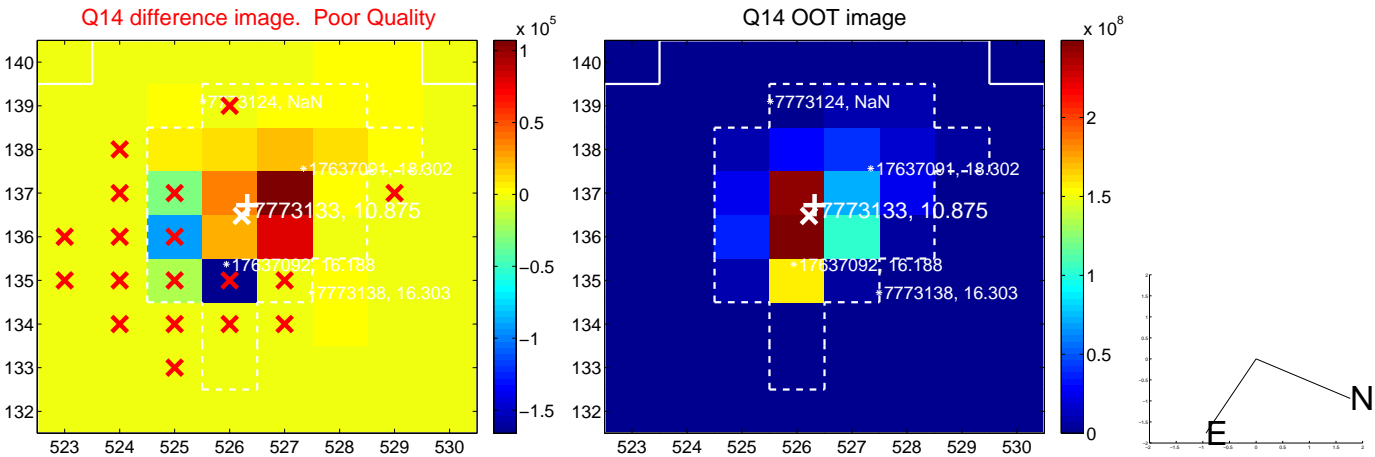
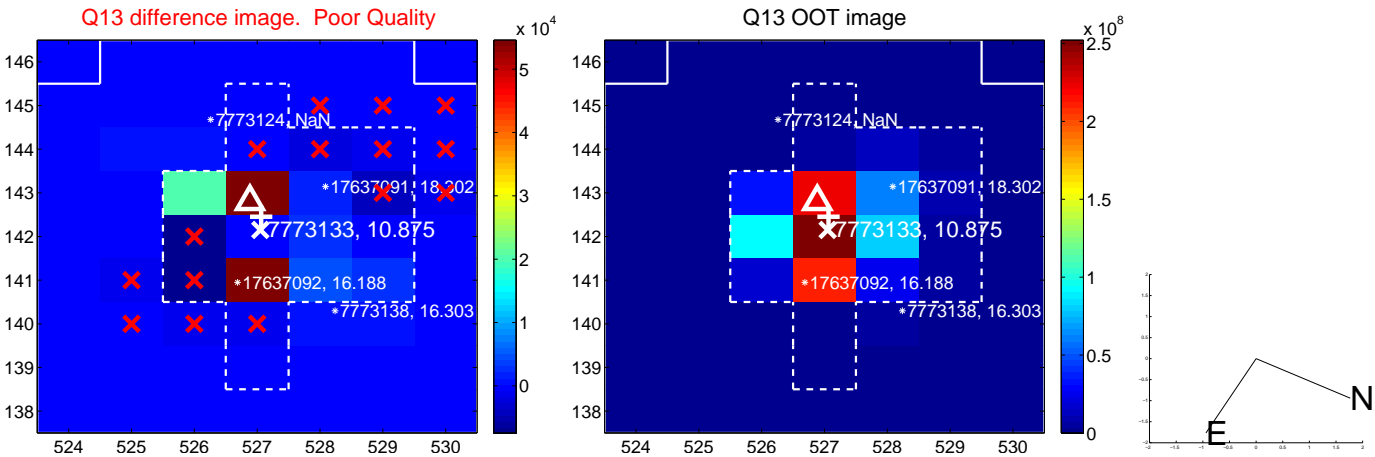
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



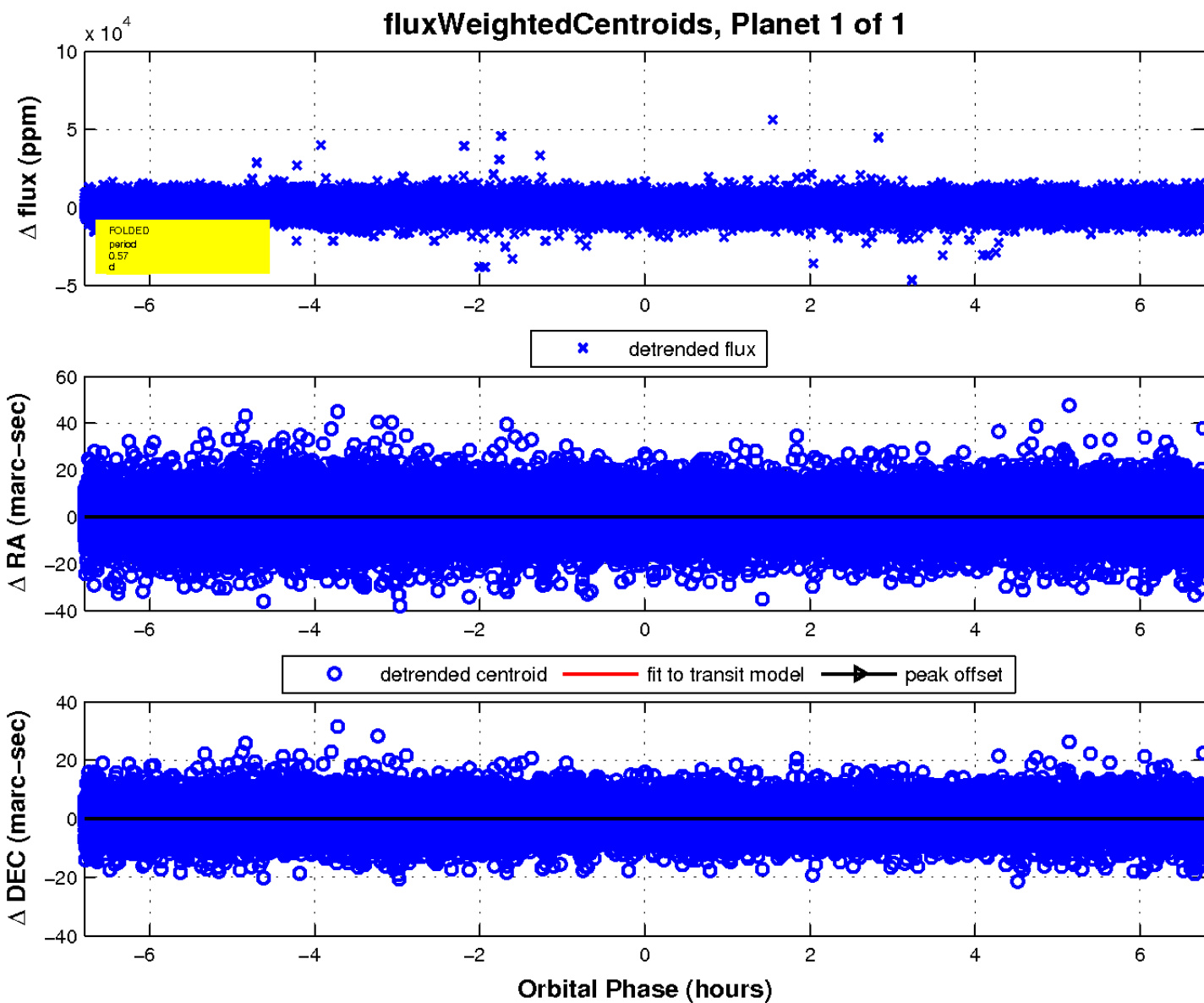
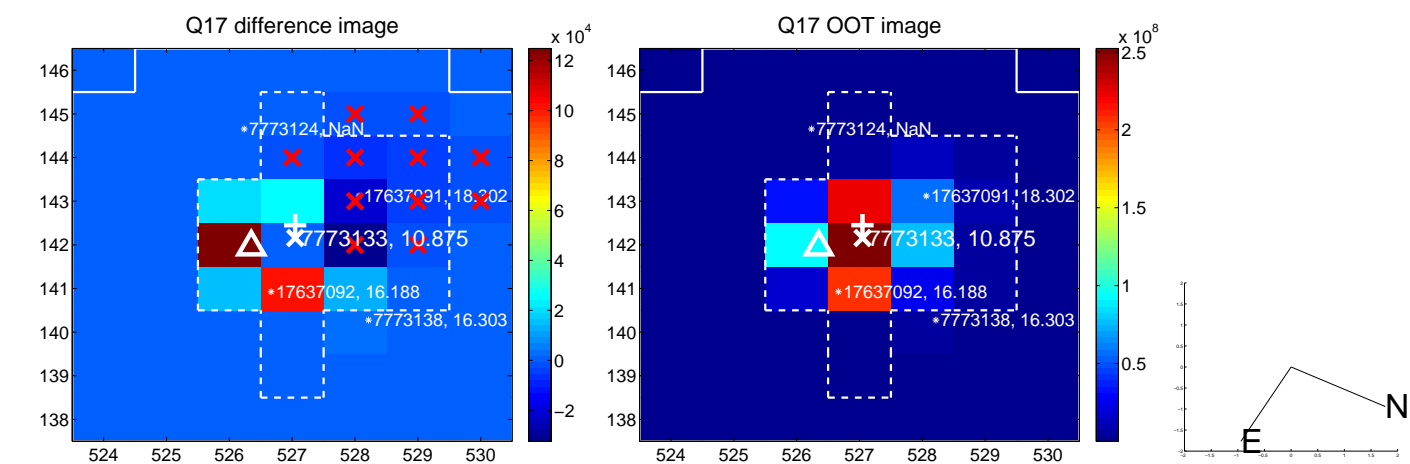
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination

