

KIC 005772911

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})
005772911-01	OBS	No	0.881131	131.979744	12103.7	2.500	1379.3	-1.0	1.39	6516	15.36	8558.50

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005772911-01	OBS	FP	0.00	1	0	0	0	LPP_ALT—CENT_NOFITS

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

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

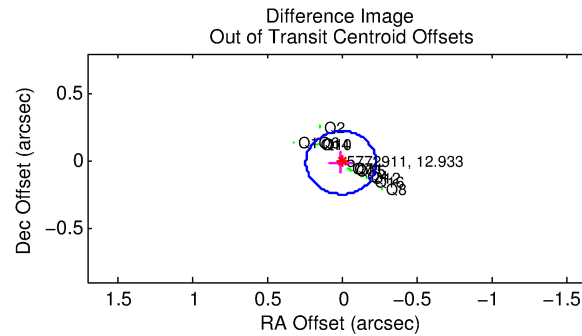
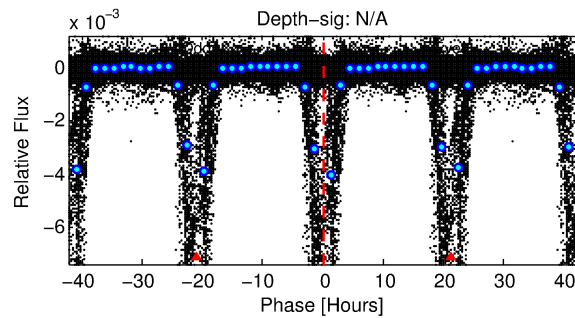
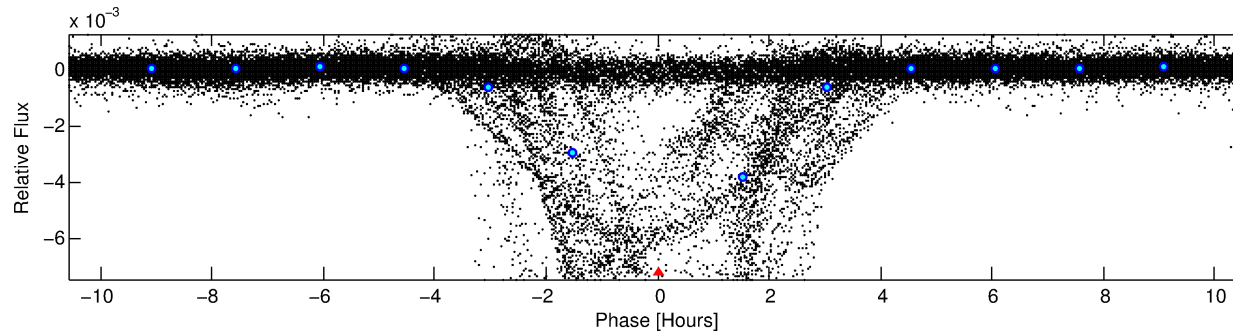
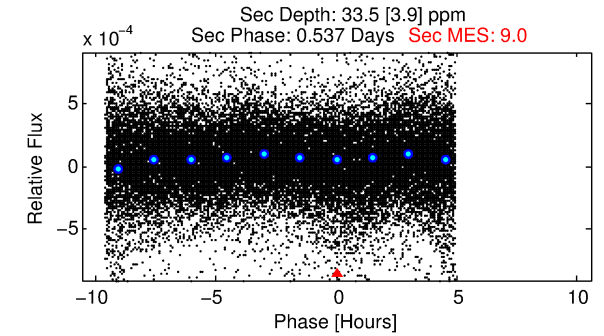
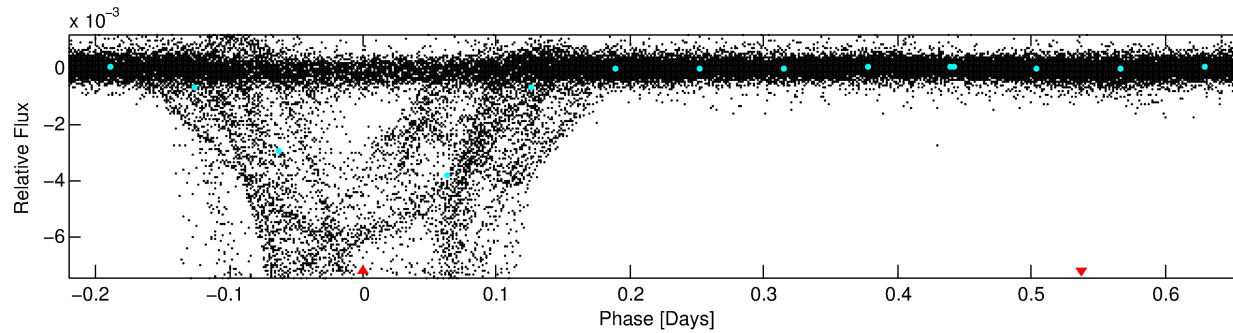
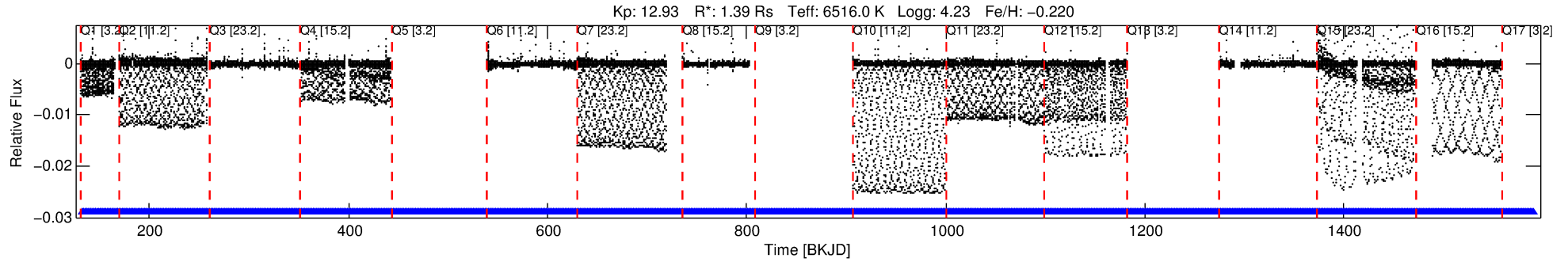
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005772911-01

No Significant Match Found

DV One-Page Summary

KIC: 5772911 Candidate: 1 of 1 Period: 0.881 d



TPS TCE Results:

Period = 0.88113 d
Epoch = 131.9797 BKJD

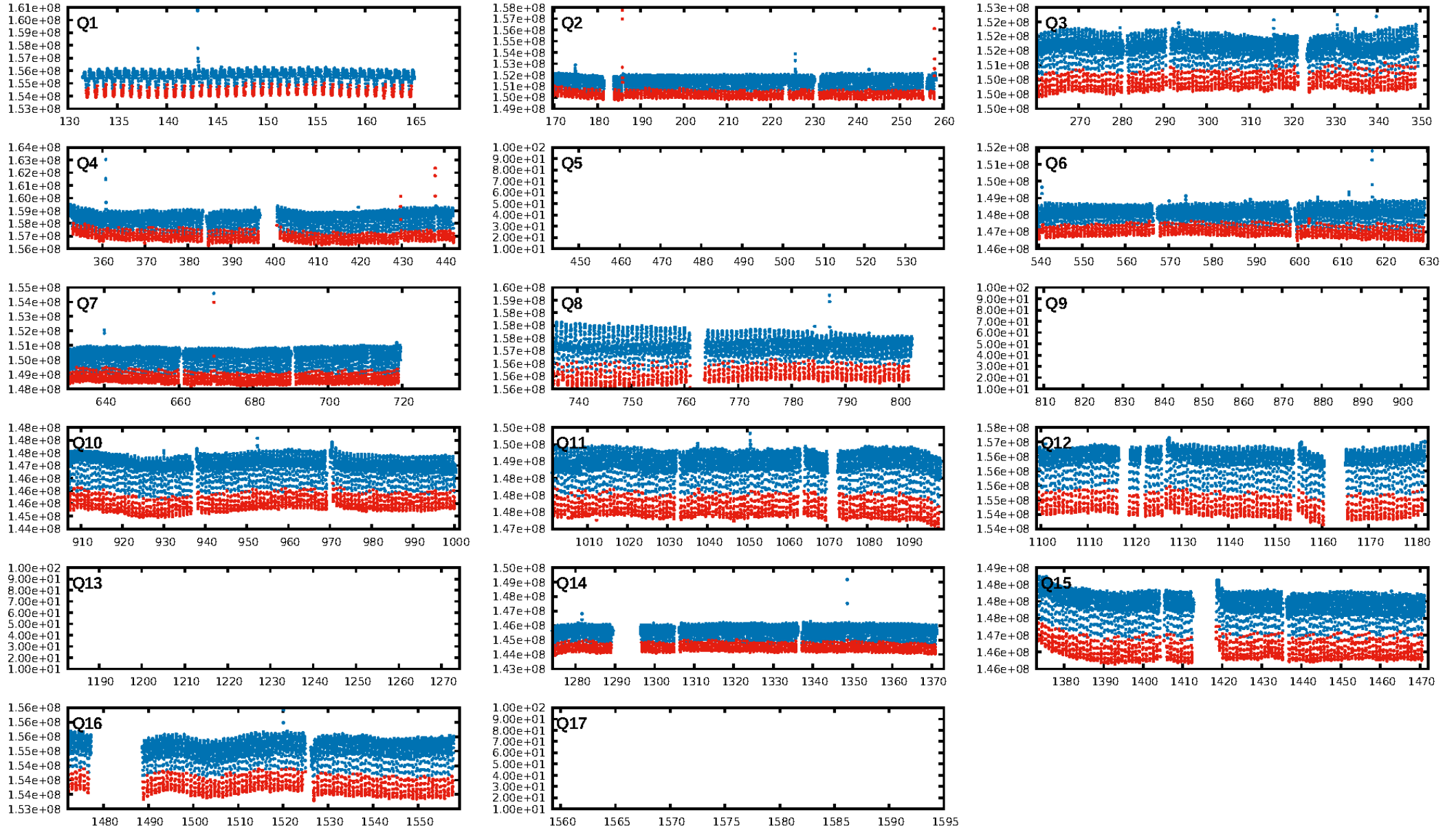
DV fit results are unavailable

DV Diagnostic Results:

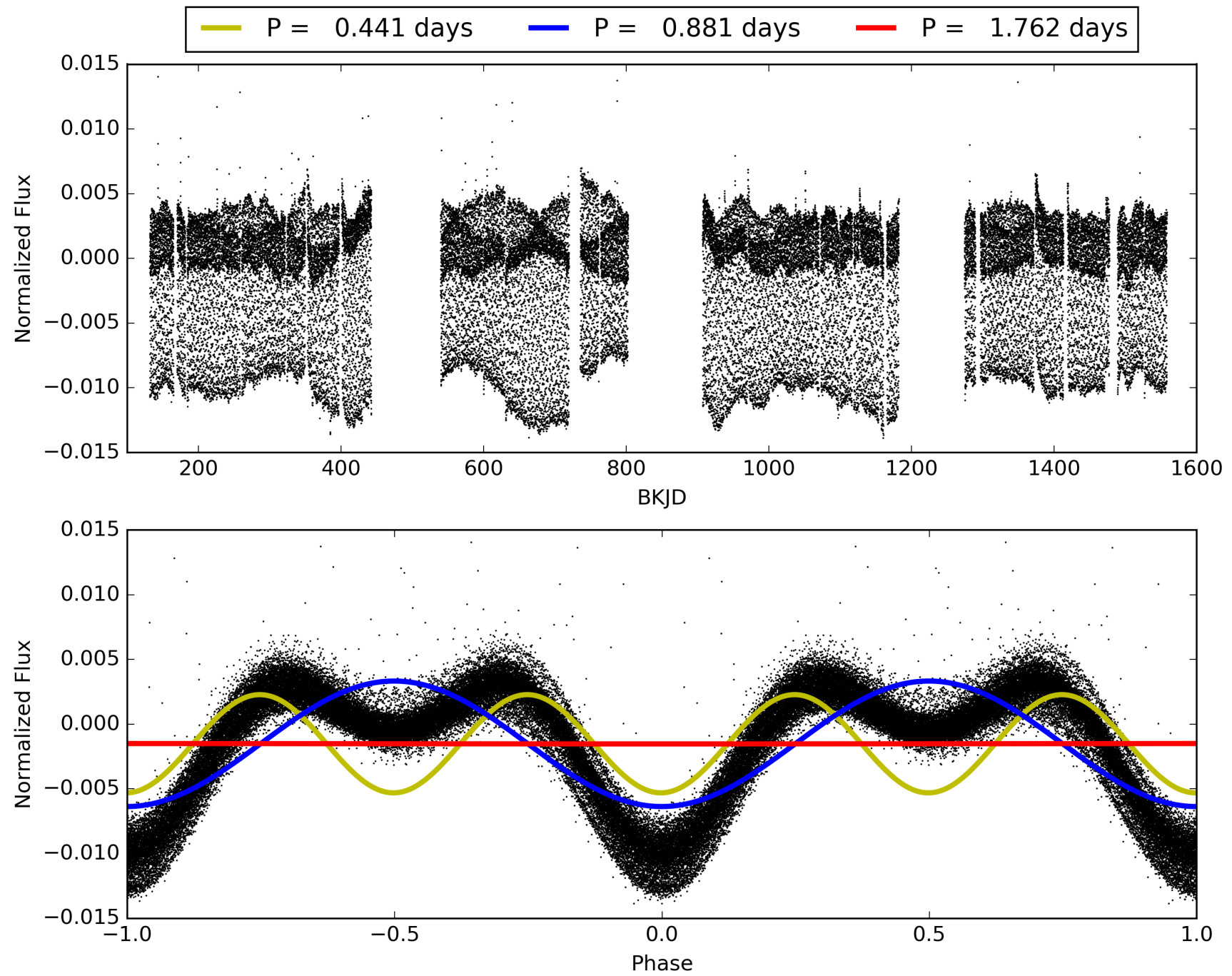
ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1150/1150]
GhostDiagnostic-chr: 1.174

Centroid-sig: 0.0%
Centroid-so: 0.076 arcsec [31.54σ]
OotOffset-rm: 0.013 arcsec [0.17σ]
KicOffset-rm: 0.187 arcsec [2.22σ]
OotOffset-st: 4/4/4/1 [13]
KicOffset-st: 4/4/4/1 [13]
DiffImageQuality-fgm: 1.00 [13/13]
DiffImageOverlap-fno: 1.00 [13/13]

TCE 005772911-01, PDC Light Curves

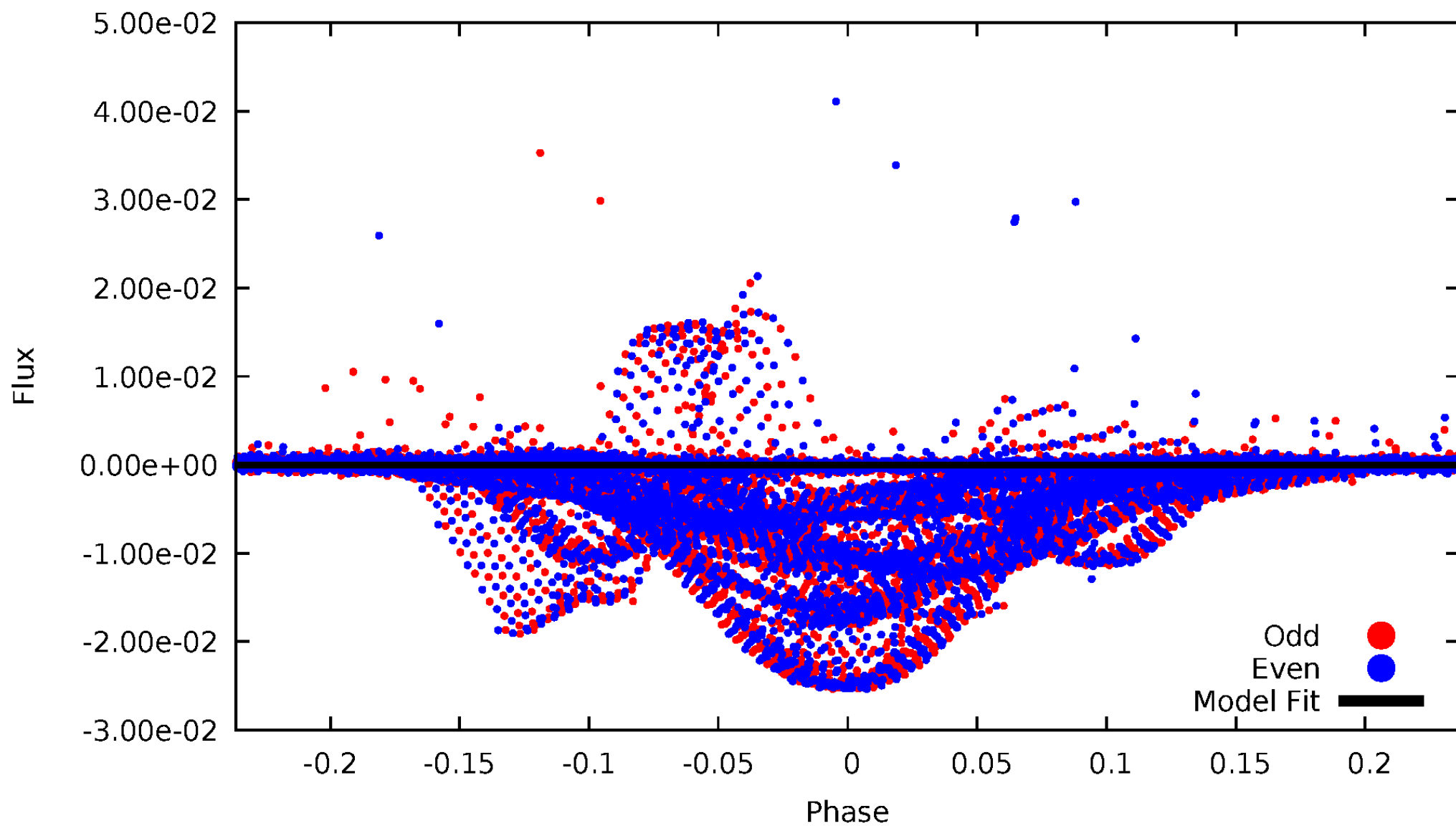


TCE 005772911-01



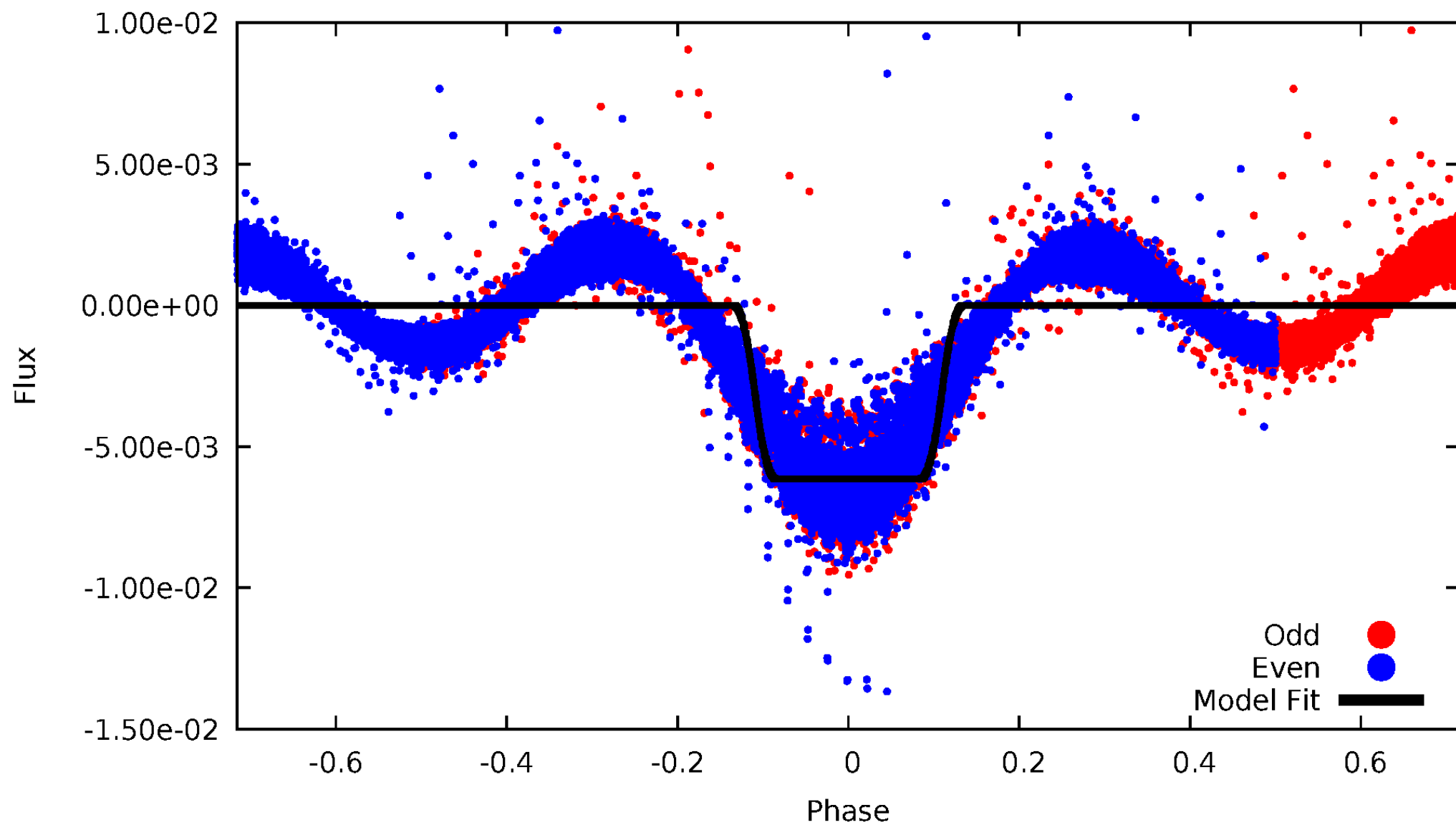
DV Odd/Even

TCE 005772911-01



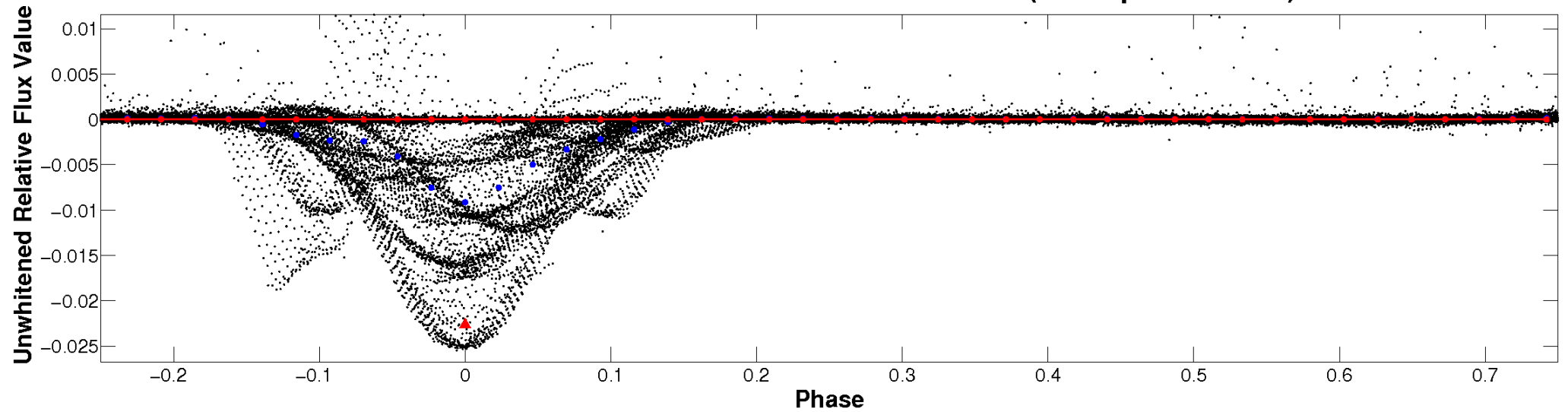
ALT Odd/Even

TCE 005772911-01

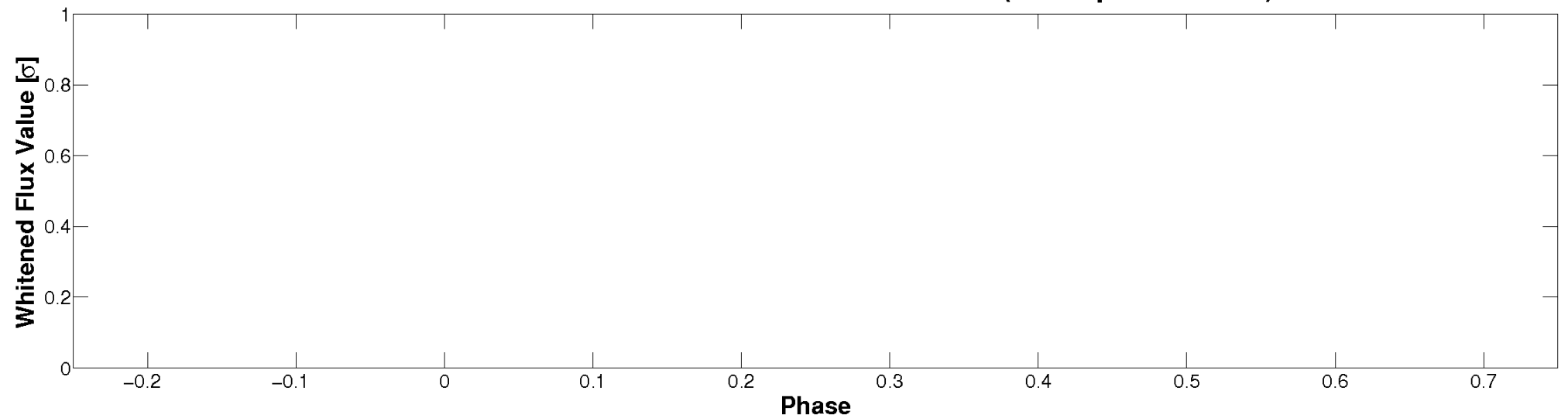


Non-Whitened Vs. Whitened Light Curve

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

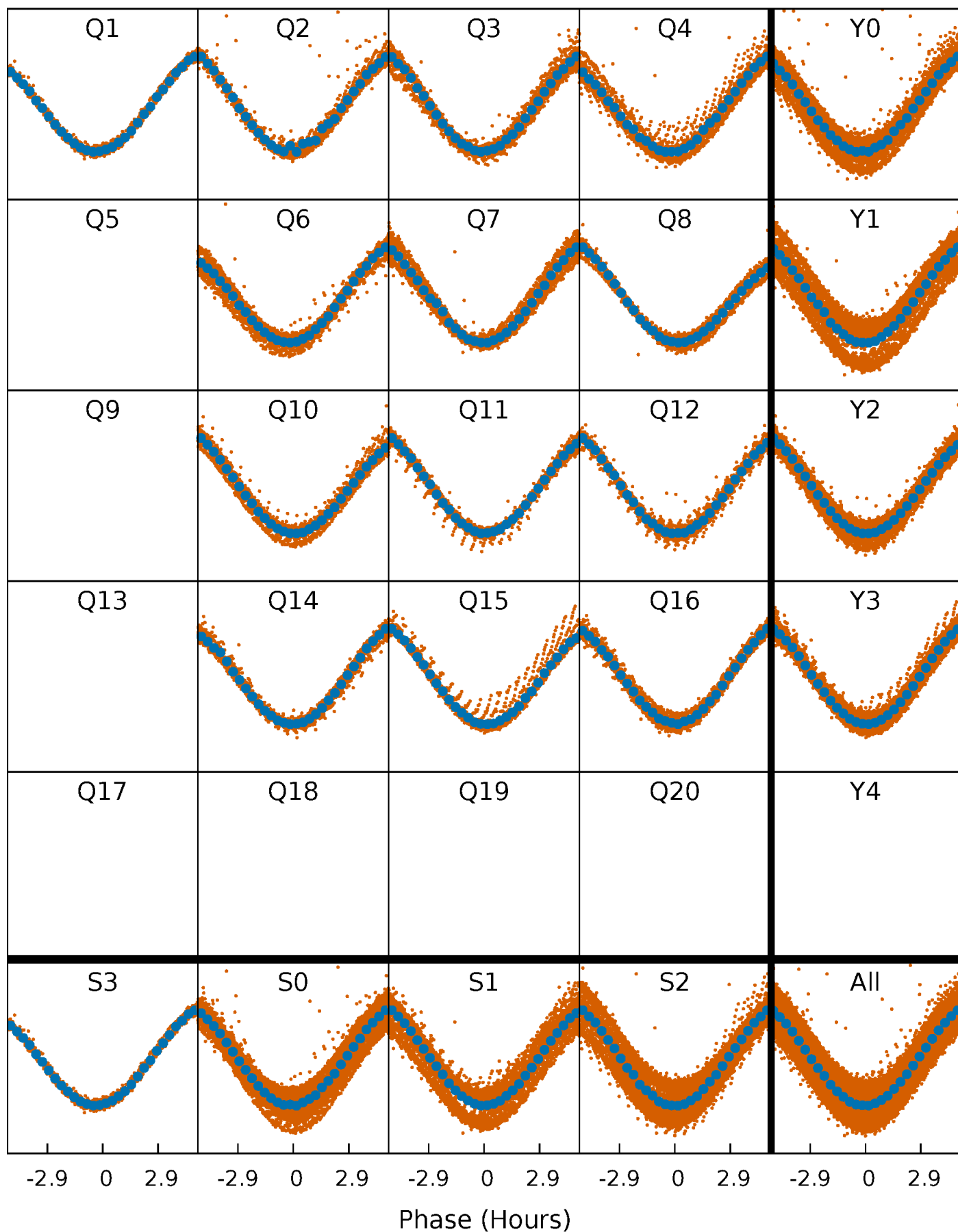


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



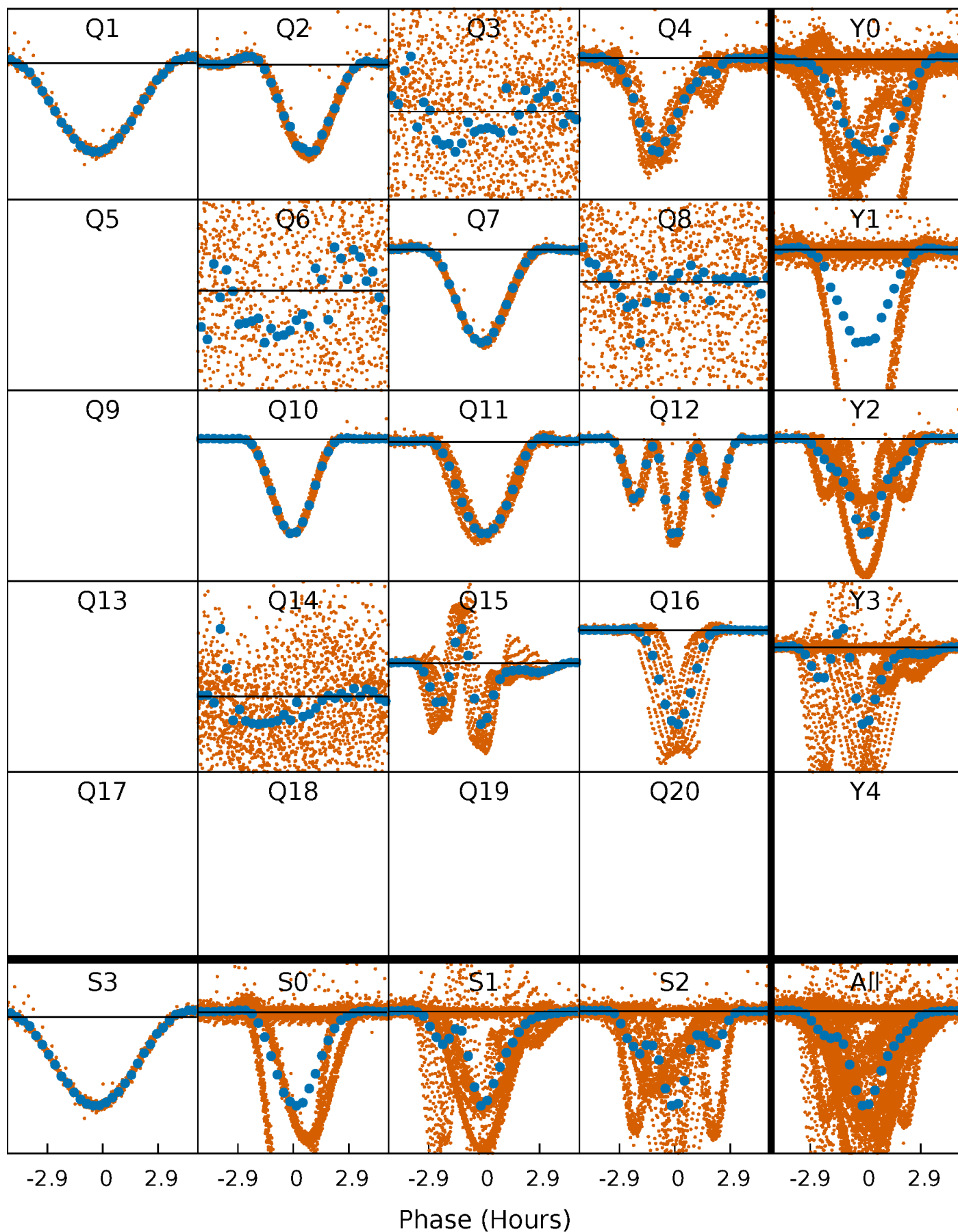
PDC Quarter-Phased Transit Curves

TCE 005772911-01 P= 0.881131 Days $T_0=131.979744$ (BKJD)



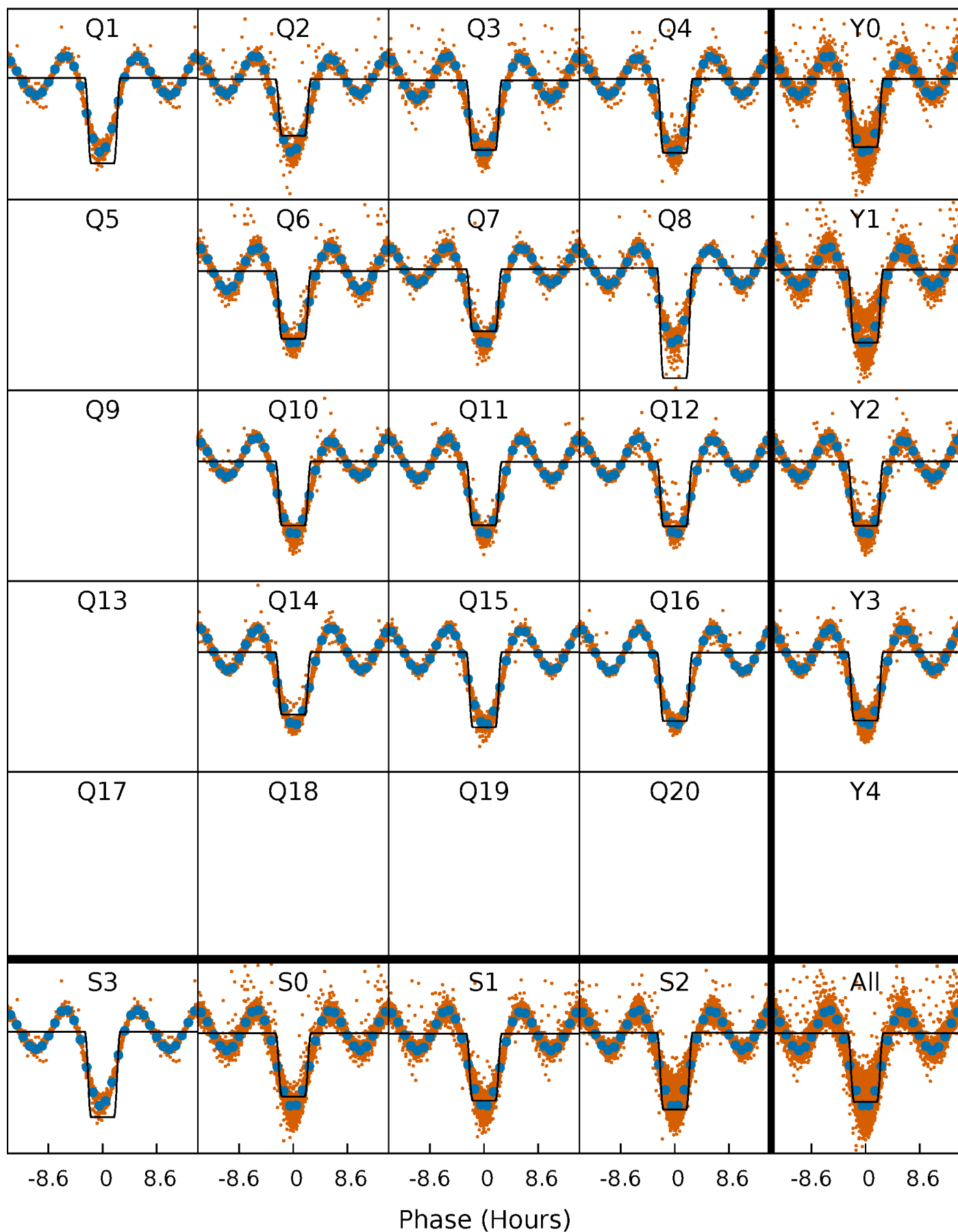
DV Quarter-Phased Transit Curves

TCE 005772911-01 P= 0.881131 Days $T_0=131.979744$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

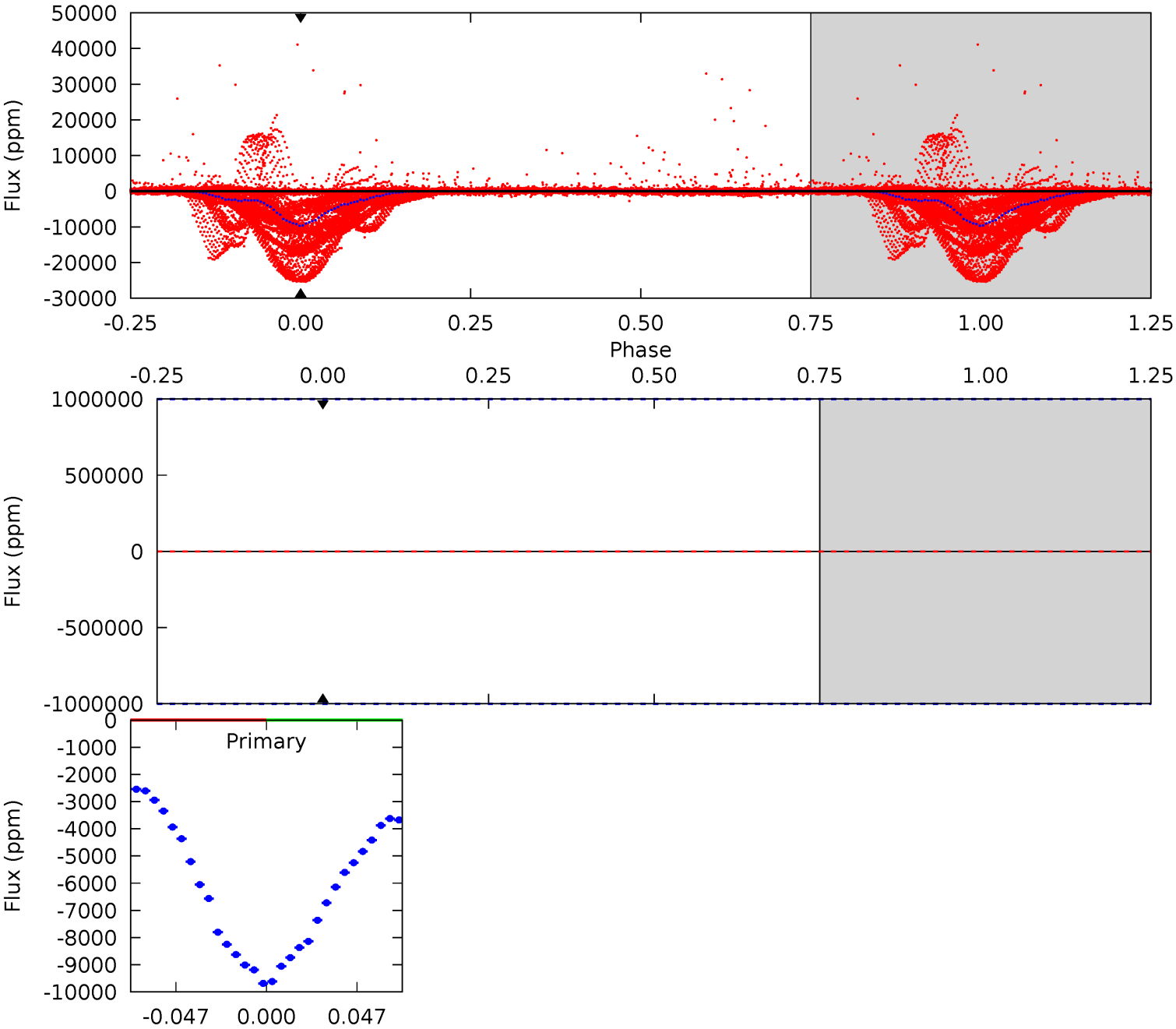
TCE 005772911-01 P= 0.881131 Days $T_0=131.976527$ (BKJD)



DV Model-Shift Uniqueness Test

005772911-01, P = 0.881131 Days, E = 131.098613 Days

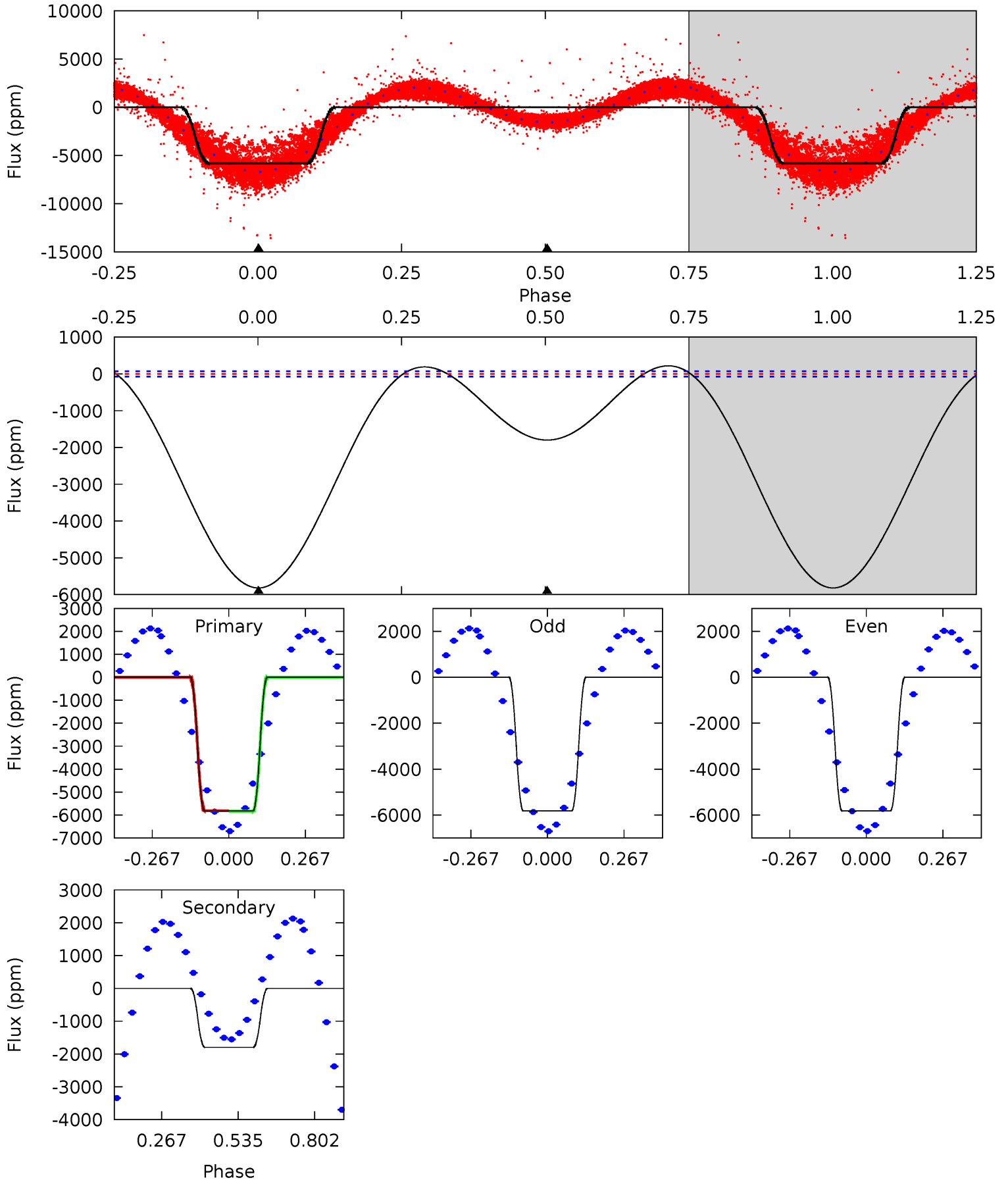
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005772911-01, P = 0.881131 Days, E = 131.095396 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
348.4	107.7	0	0	4.35	1.11	9.82	348.4	348.4	107.7	107.7	0.03	0.99	0.04	0.72



Stellar Parameters For KIC 005772911

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6516^{+155}_{-194}	$4.228^{+0.149}_{-0.182}$	$-0.220^{+0.250}_{-0.300}$	$1.385^{+0.417}_{-0.313}$	$1.185^{+0.174}_{-0.174}$	$0.628^{+0.530}_{-0.304}$
	+2%/-3%	+4%/-4%	+114%/-136%	+30%/-23%	+15%/-15%	+84%/-48%
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 005772911-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$19.13^{+13.97}_{-11.72}$	3458^{+274}_{-244}	2816^{+12331}_{-16170}	$0.369^{+88.169}_{-74.886}$
Alt.	-1799 ± 17	$15.72^{+13.93}_{-9.47}$	3448^{+232}_{-228}	4143^{+2510}_{-1222}	$1.419^{+7.616}_{-1.012}$

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

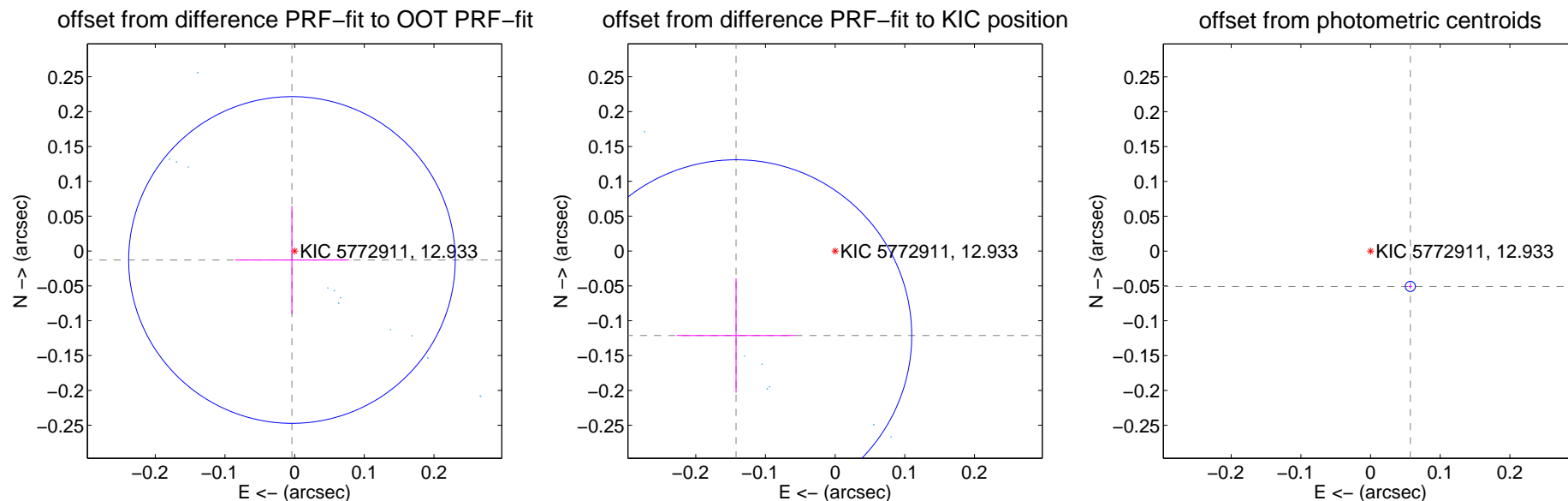
DV Centroid Data

Supplemental centroid analysis for 005772911-01. Kepler magnitude: 12.93. Transit SNR -1.00

There are 13 quarters with good PRF difference image offsets

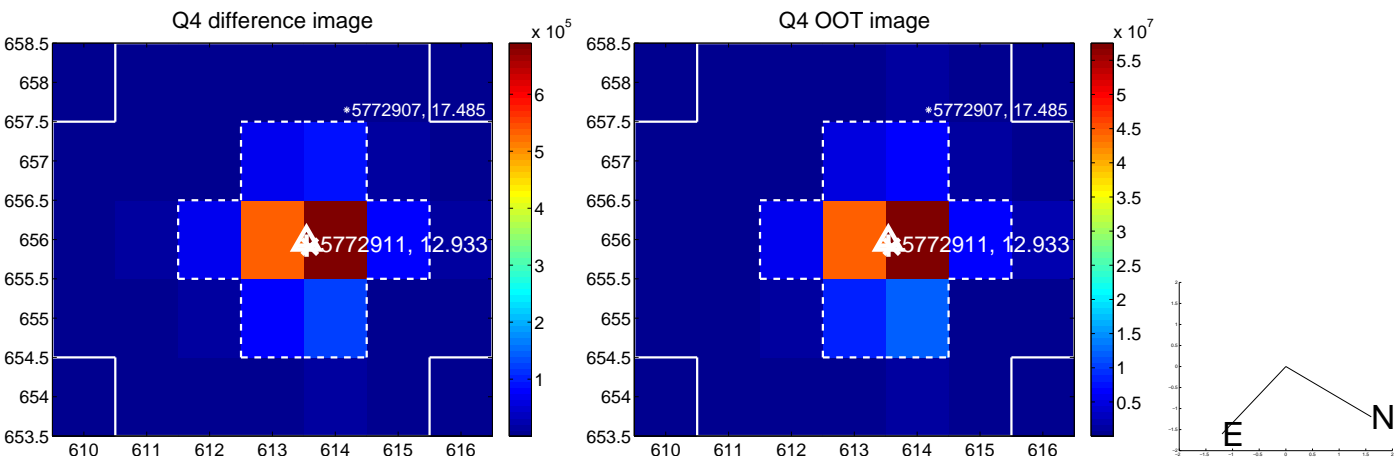
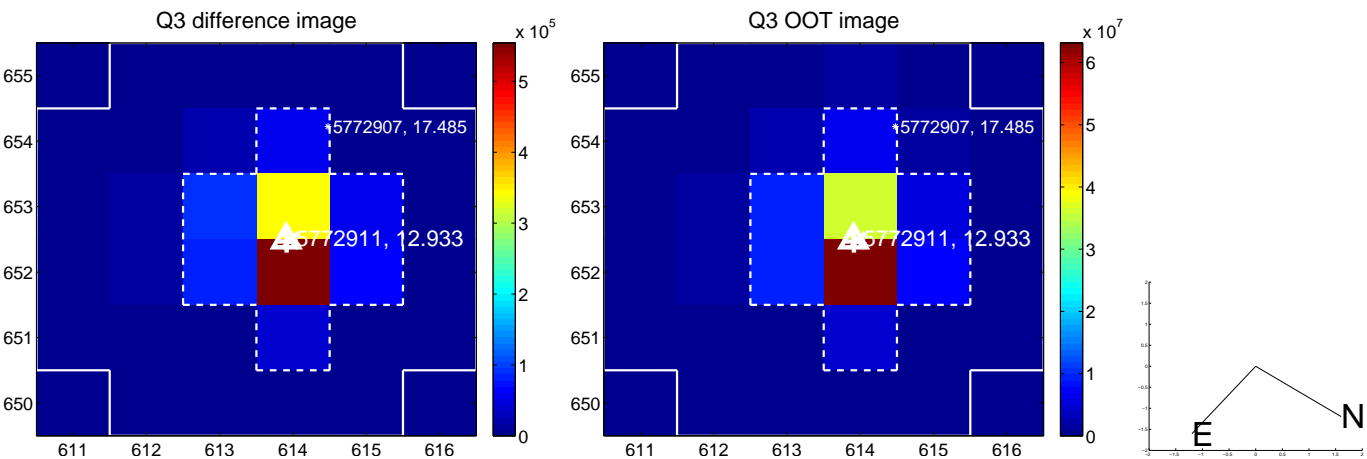
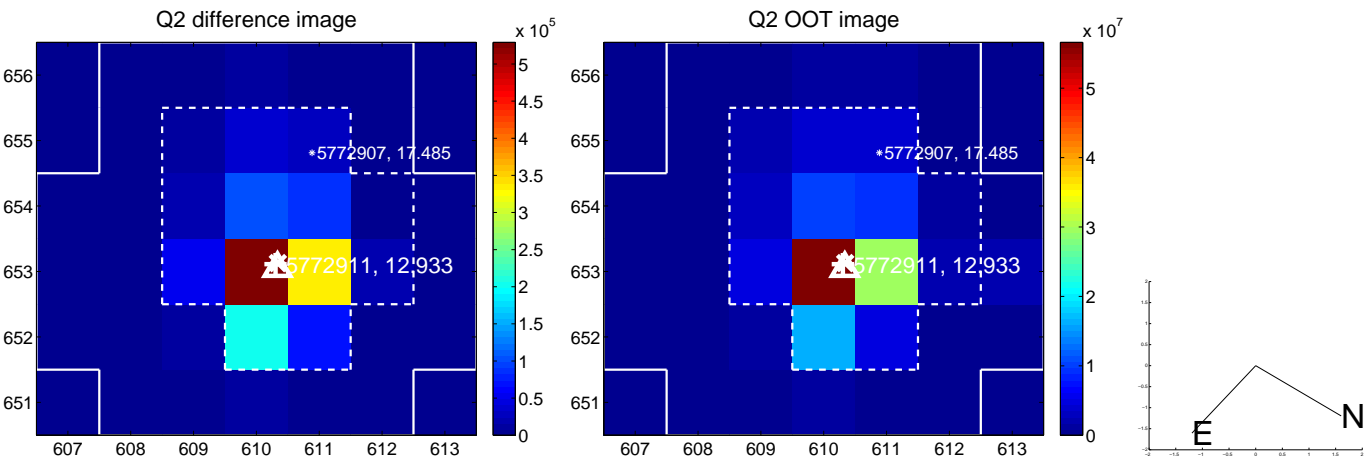
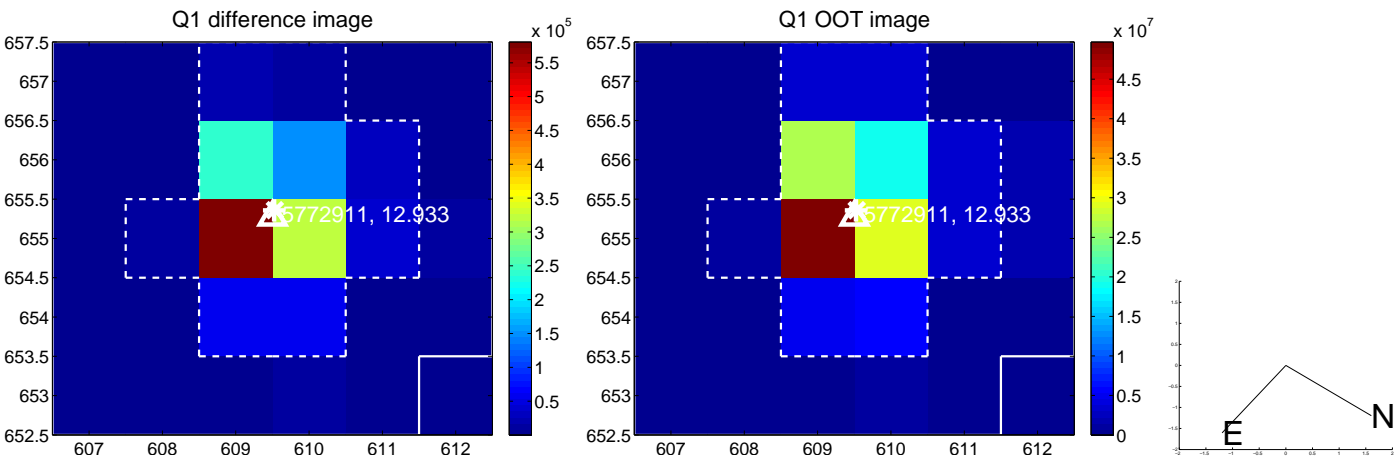
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.013 ± 0.078	0.17	0.004 ± 0.082	-0.013 ± 0.078
PRF-fit source offset from KIC position	0.187 ± 0.084	2.22	0.142 ± 0.085	-0.121 ± 0.082
photometric centroid source offset	0.08 ± 0.00	31.54	-0.06 ± 0.00	-0.05 ± 0.00

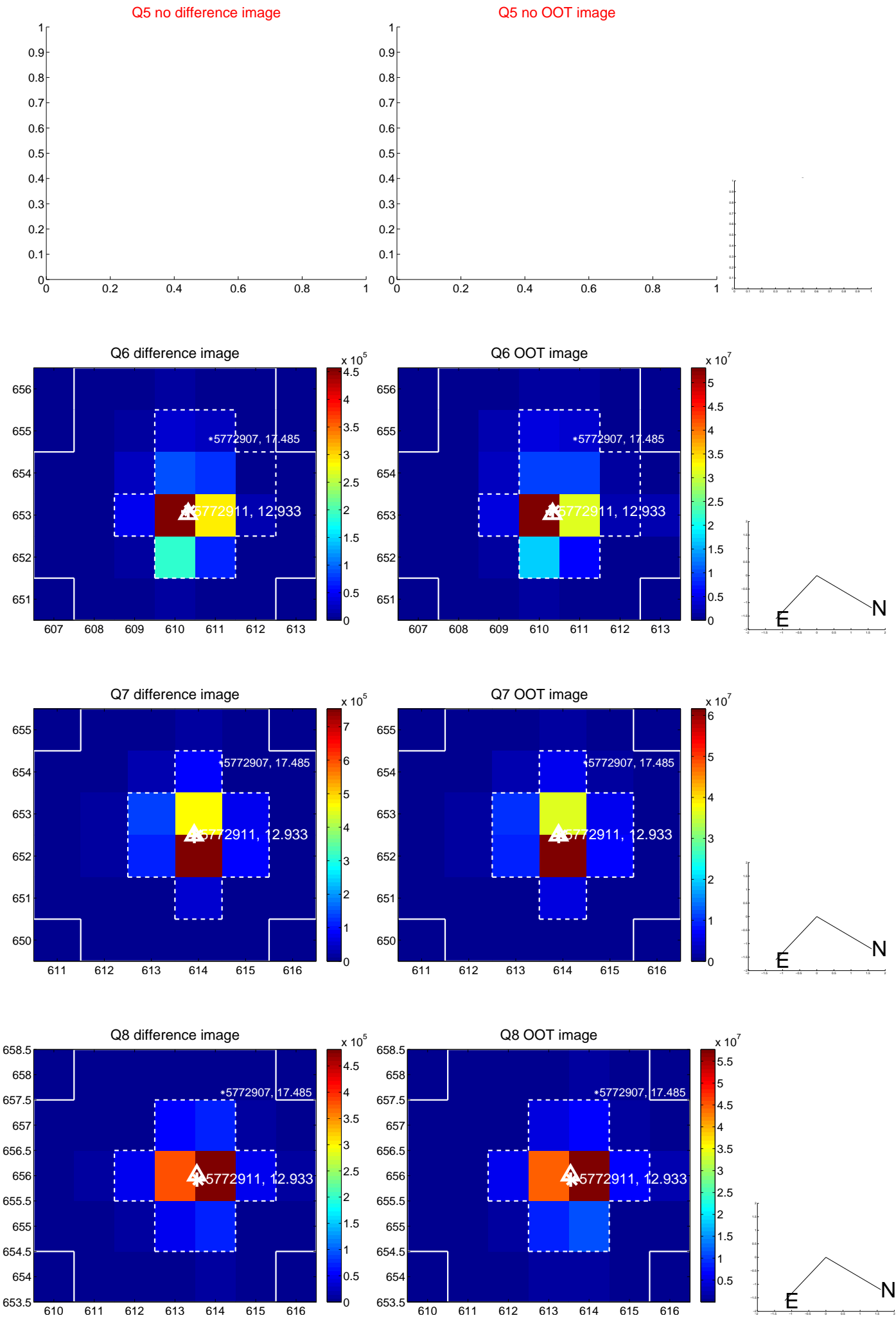


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

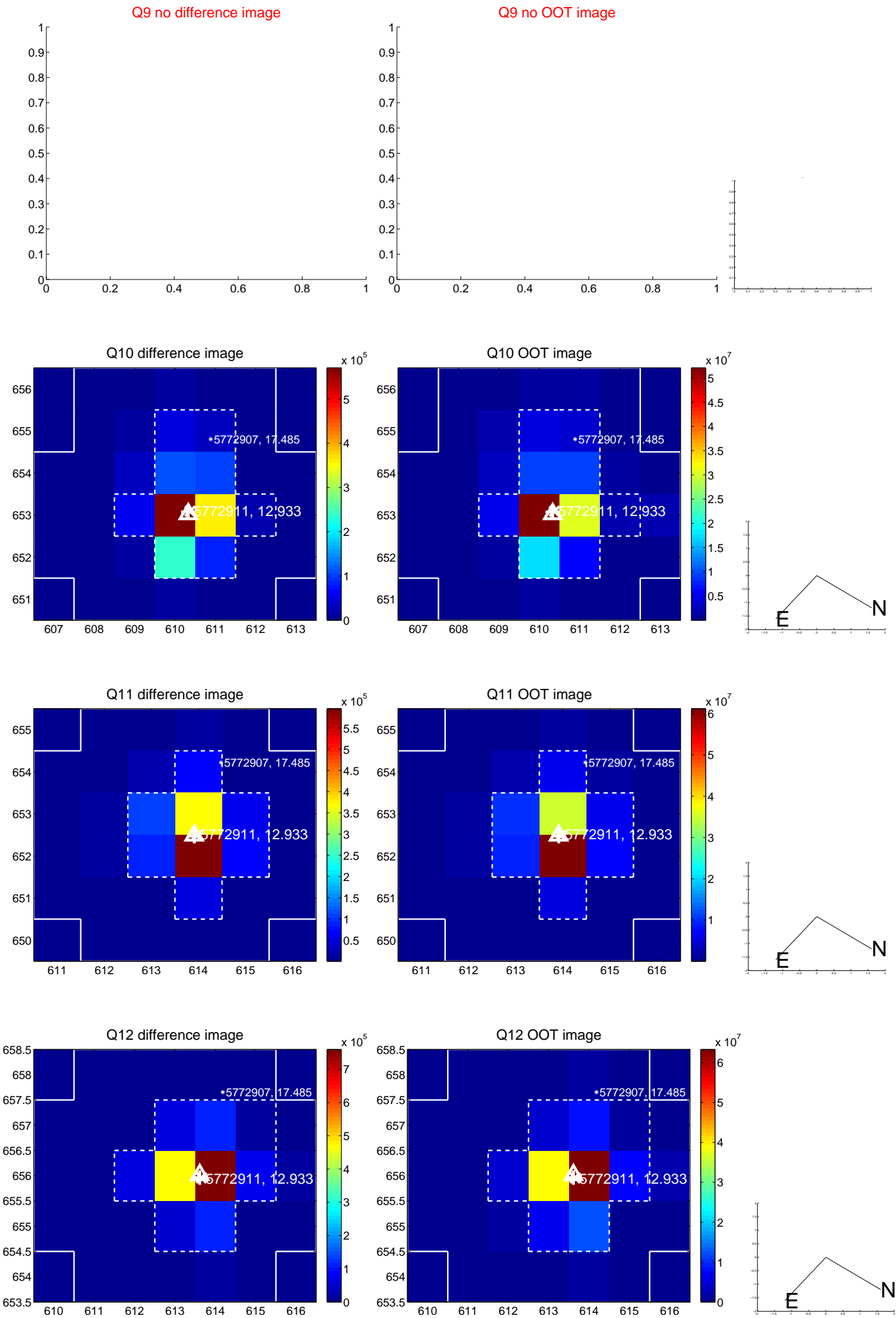
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



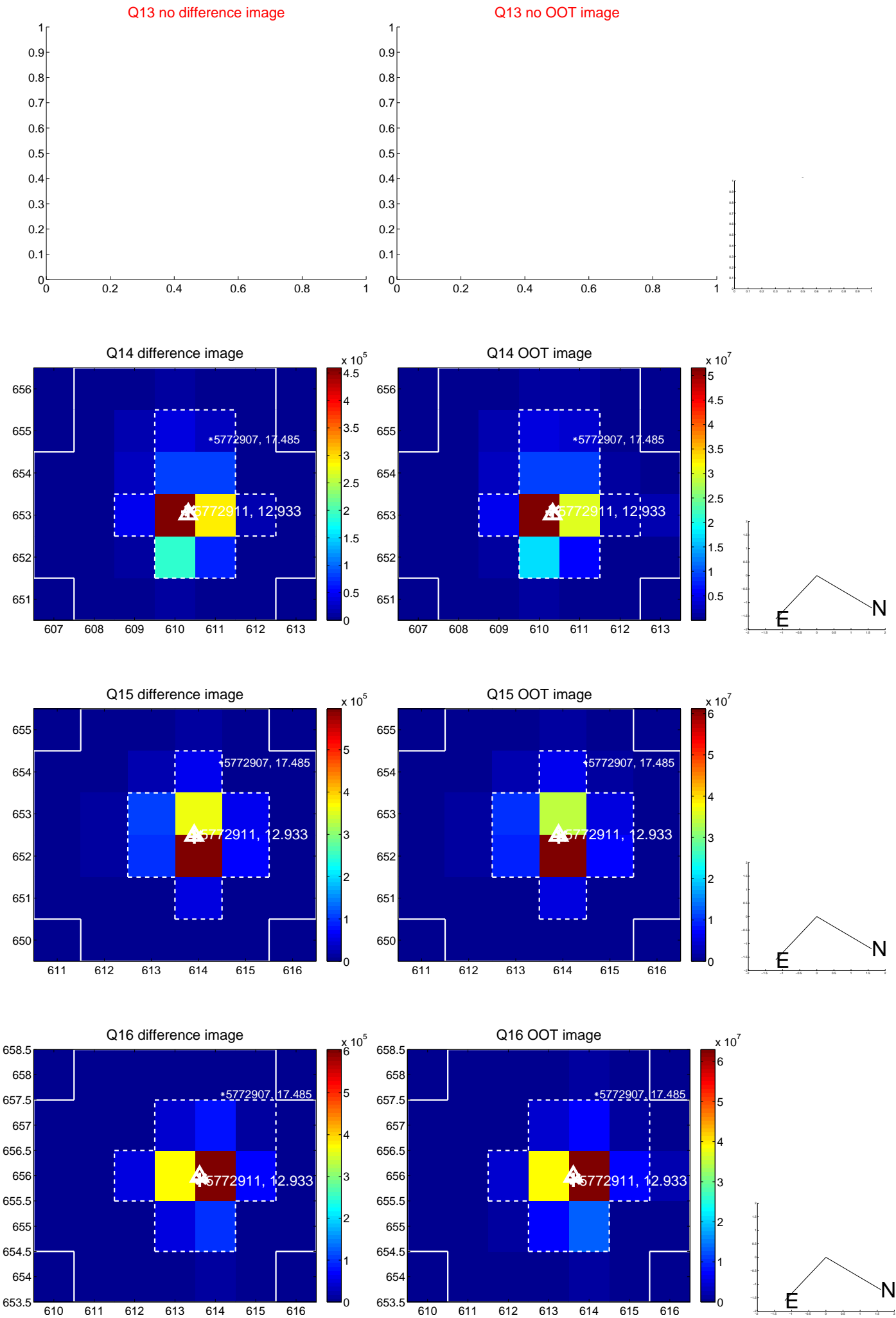
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



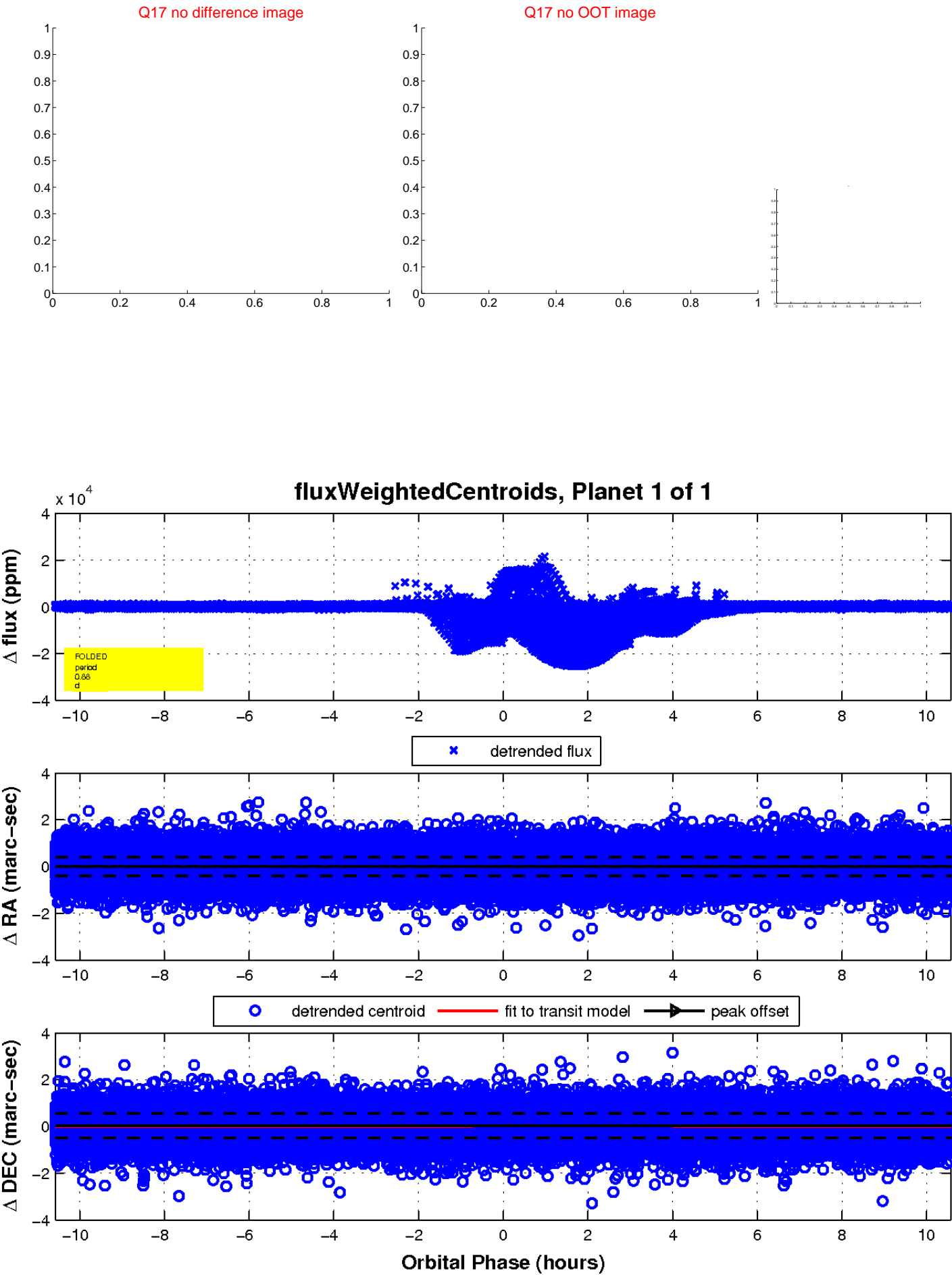
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

Declination

