

KIC 005269411

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})
005269411-01	OBS	No	14.094877	134.800160	160.8	52.254	12.7	23.4	1.18	6088	3.01	127.03

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005269411-01	OBS	FP	0.00	1	0	0	0	LPP_DV

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

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

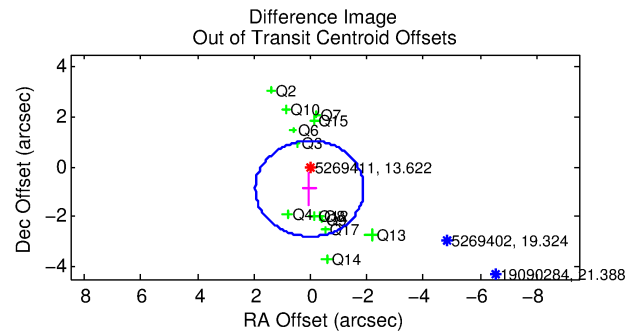
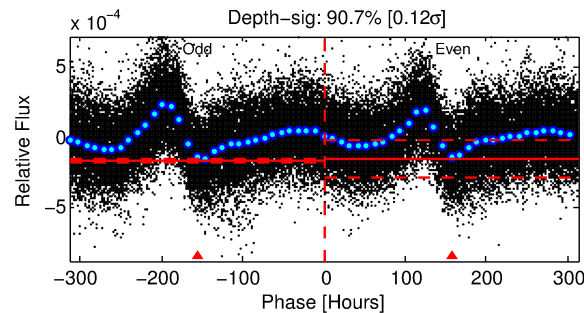
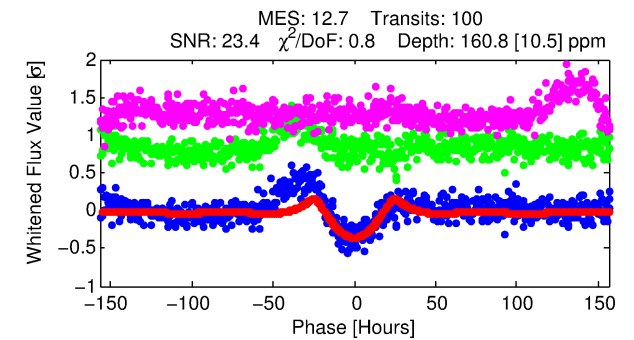
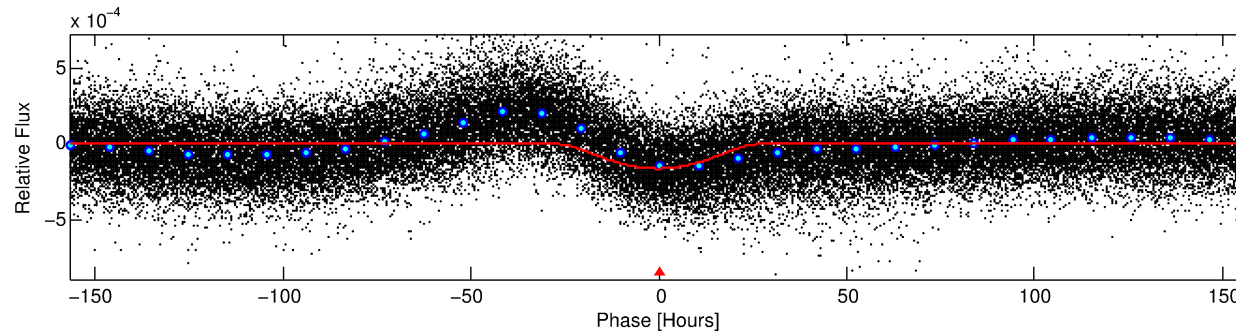
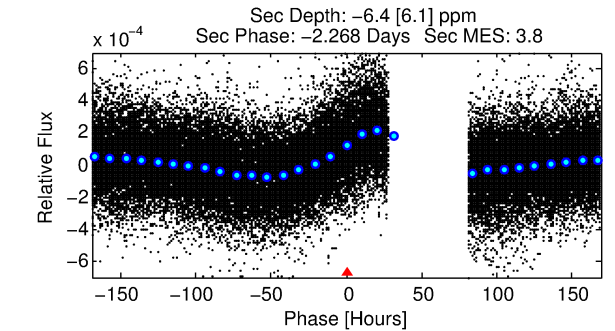
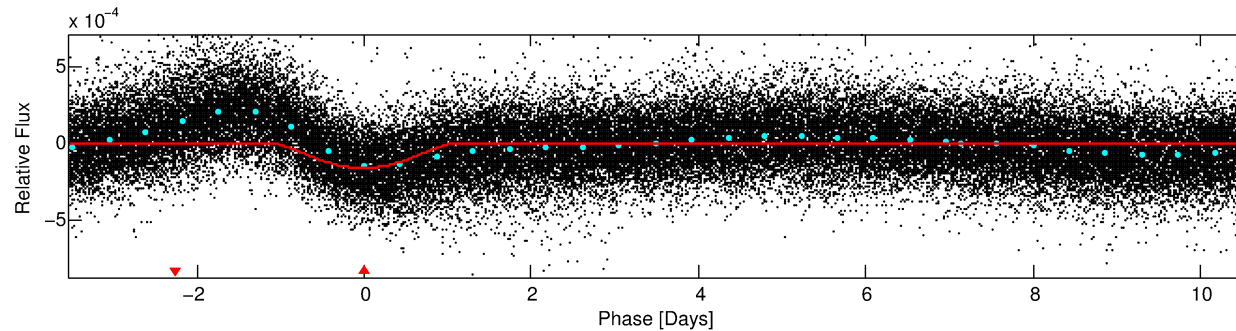
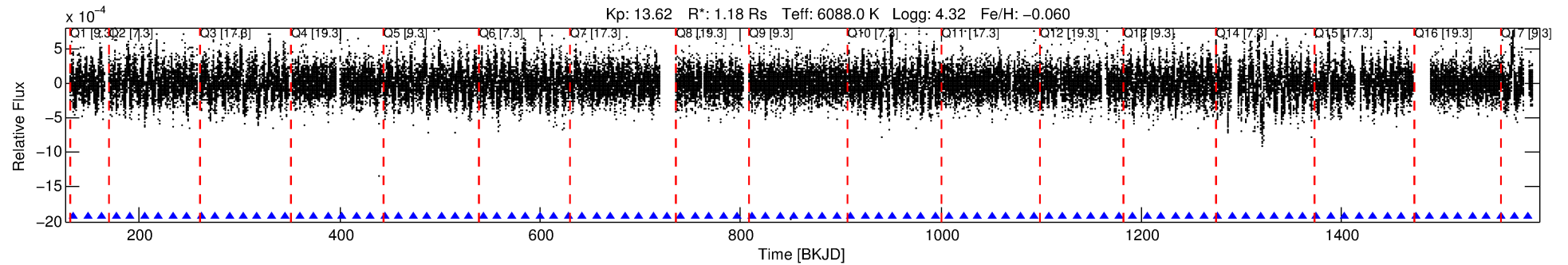
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005269411-01

No Significant Match Found

DV One-Page Summary

KIC: 5269411 Candidate: 1 of 1 Period: 14.095 d



DV Fit Results:

Period = 14.09488 [0.00059] d
Epoch = 134.8002 [0.0326] BKJD
Rp/R* = 0.0234 [0.0134]
a/R* = 1.10 [0.01]
b = 1.00 [0.02]
Seff = 127.03 [48.15]
Teq = 856 [81] K
Rp = 3.01 [1.96] Re
a = 0.1159 [0.0294] AU
Ag = N/A
Teffp = N/A

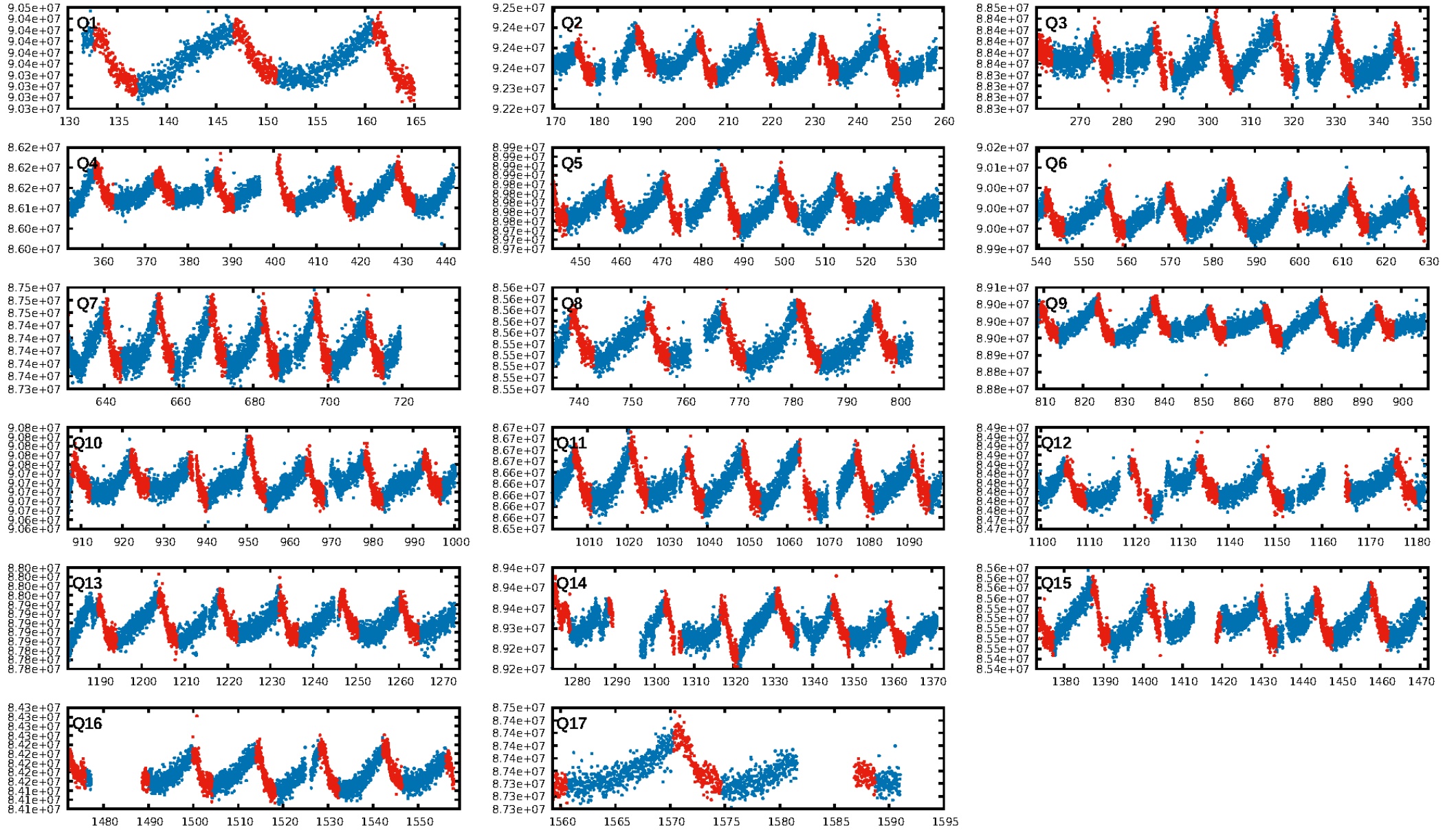
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 100.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 7.89e-38
RollingBand-fgt: 1.00 [95/95]
GhostDiagnostic-chr: 0.5652
Centroid-sig: 0.0%
Centroid-so: 0.435 arcsec [2.03σ]
OotOffset-rm: 0.882 arcsec [1.38σ]
KicOffset-rm: 0.964 arcsec [1.48σ]
OotOffset-st: 4/3/3/3 [13]
KicOffset-st: 4/3/3/3 [13]
DiffImageQuality-fgm: 0.92 [12/13]
DiffImageOverlap-fno: 1.00 [16/16]

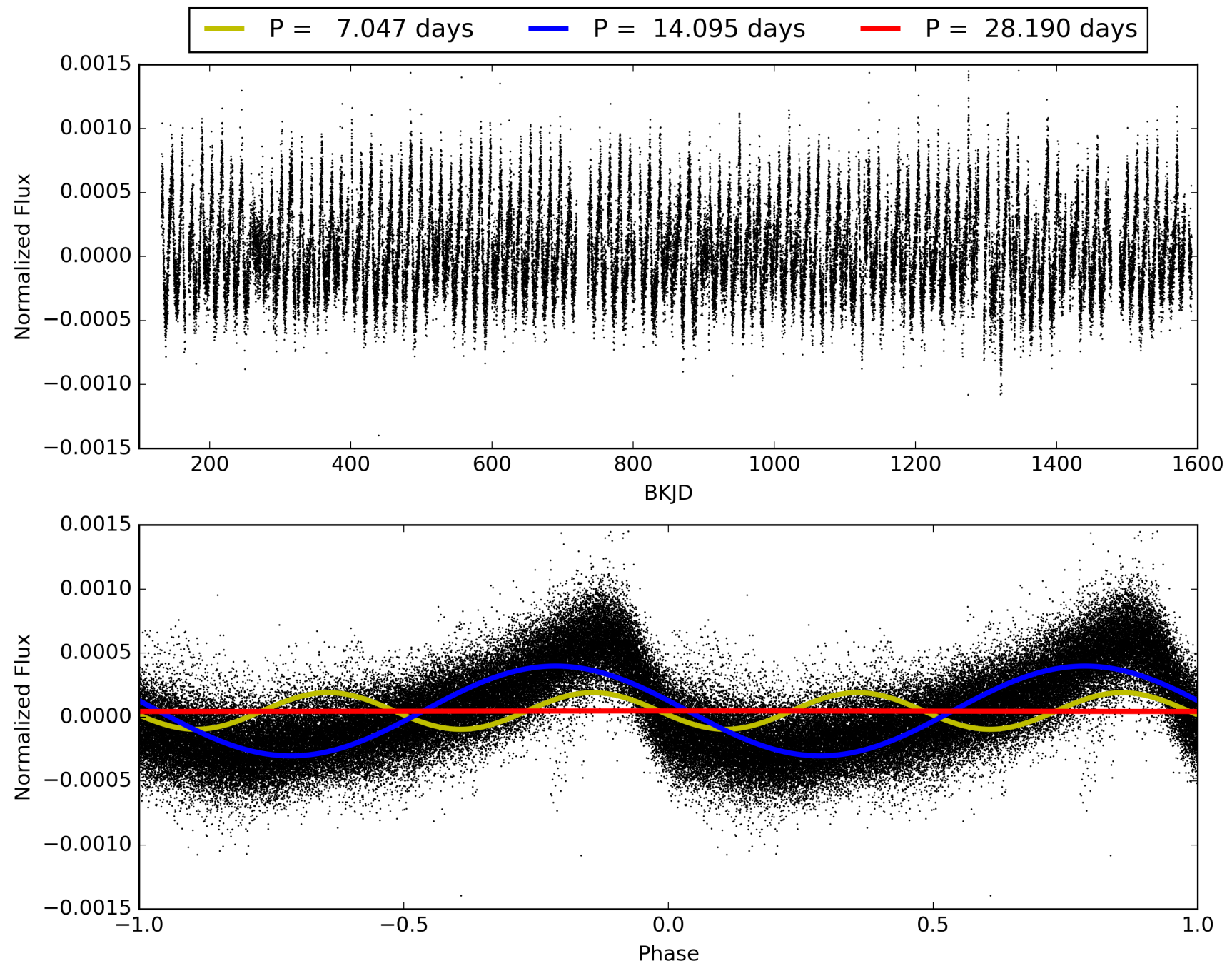
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 11:17:38 Z

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

TCE 005269411-01, PDC Light Curves

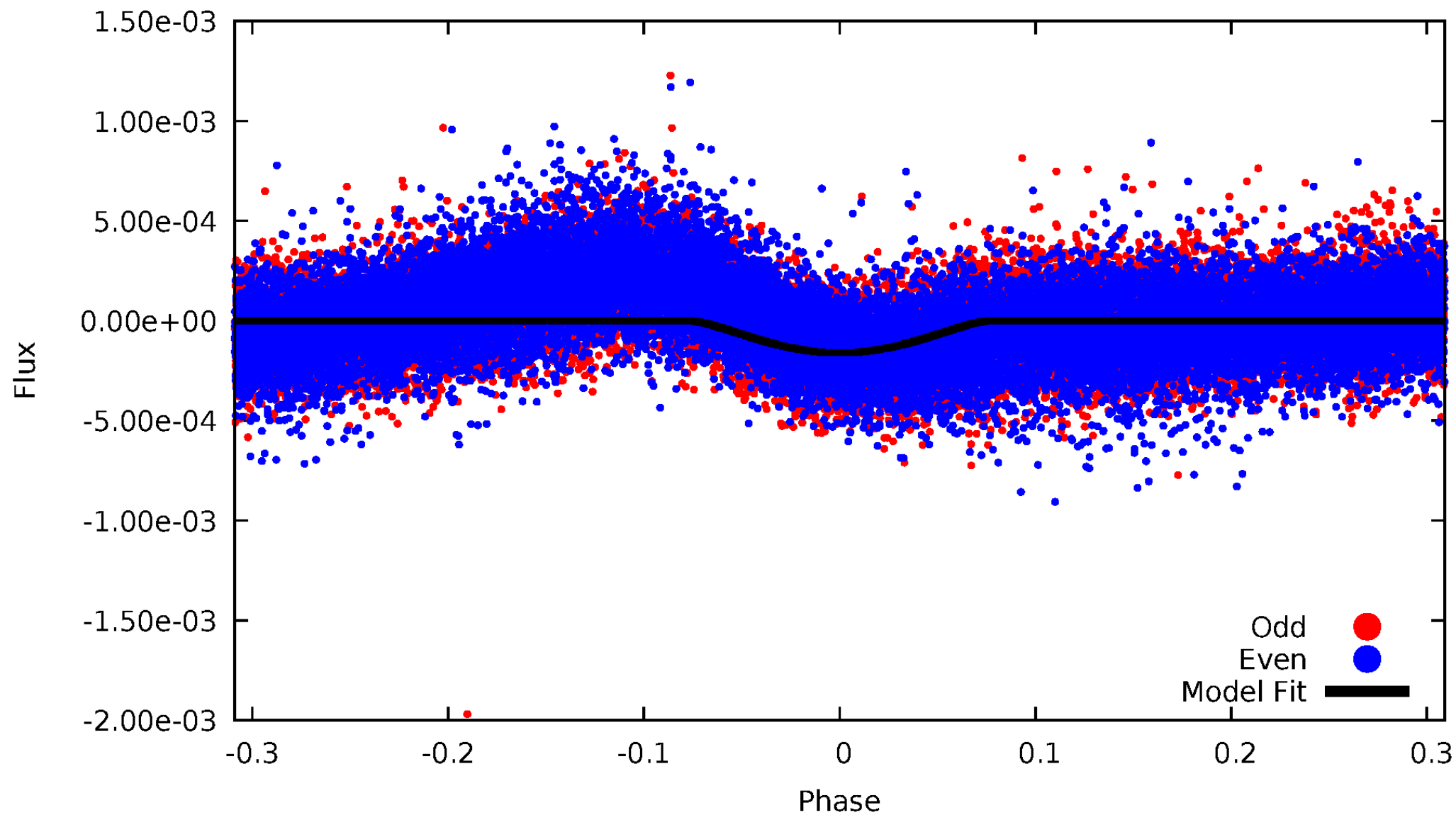


TCE 005269411-01



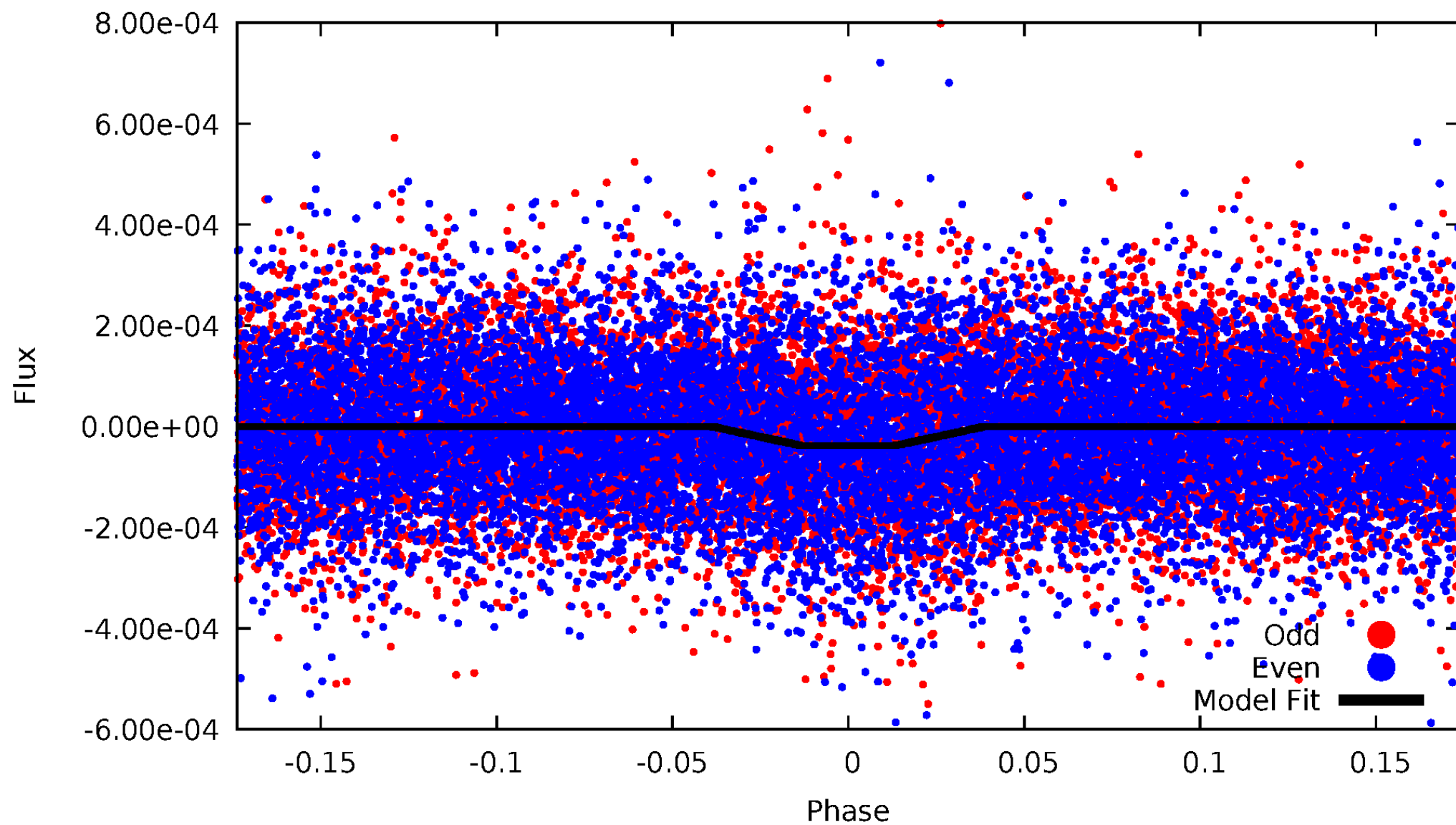
DV Odd/Even

TCE 005269411-01

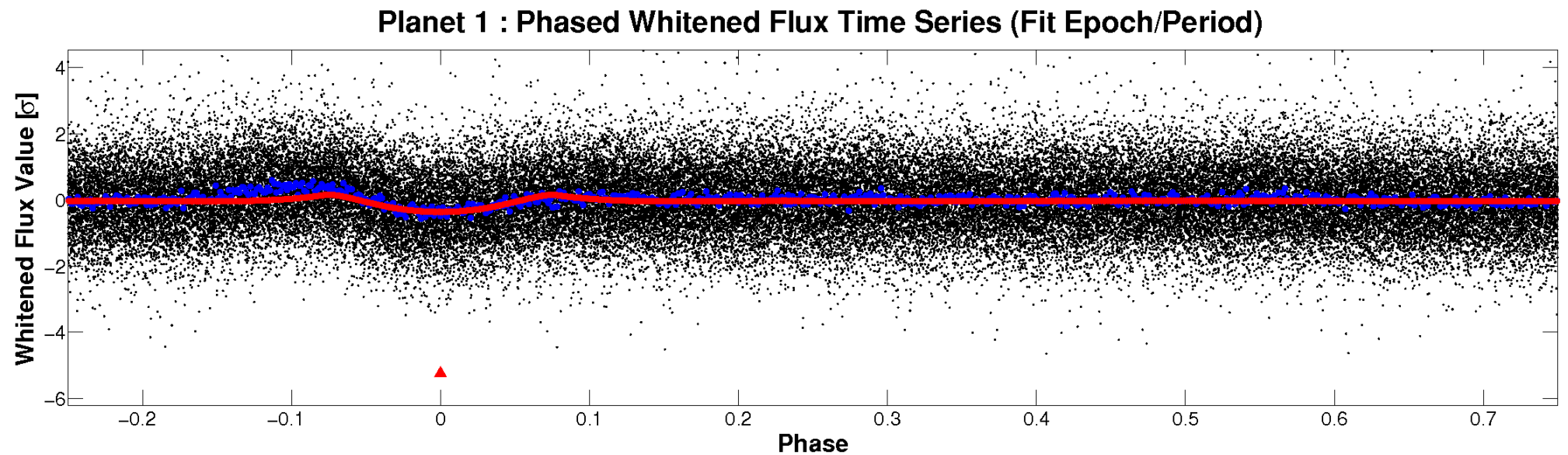
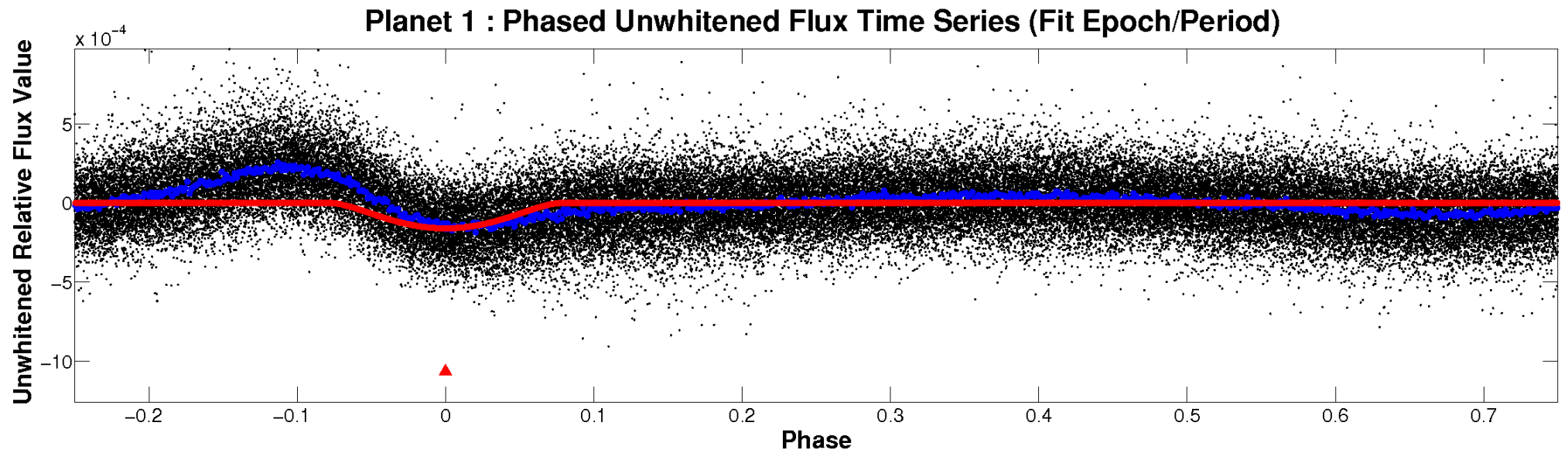


ALT Odd/Even

TCE 005269411-01

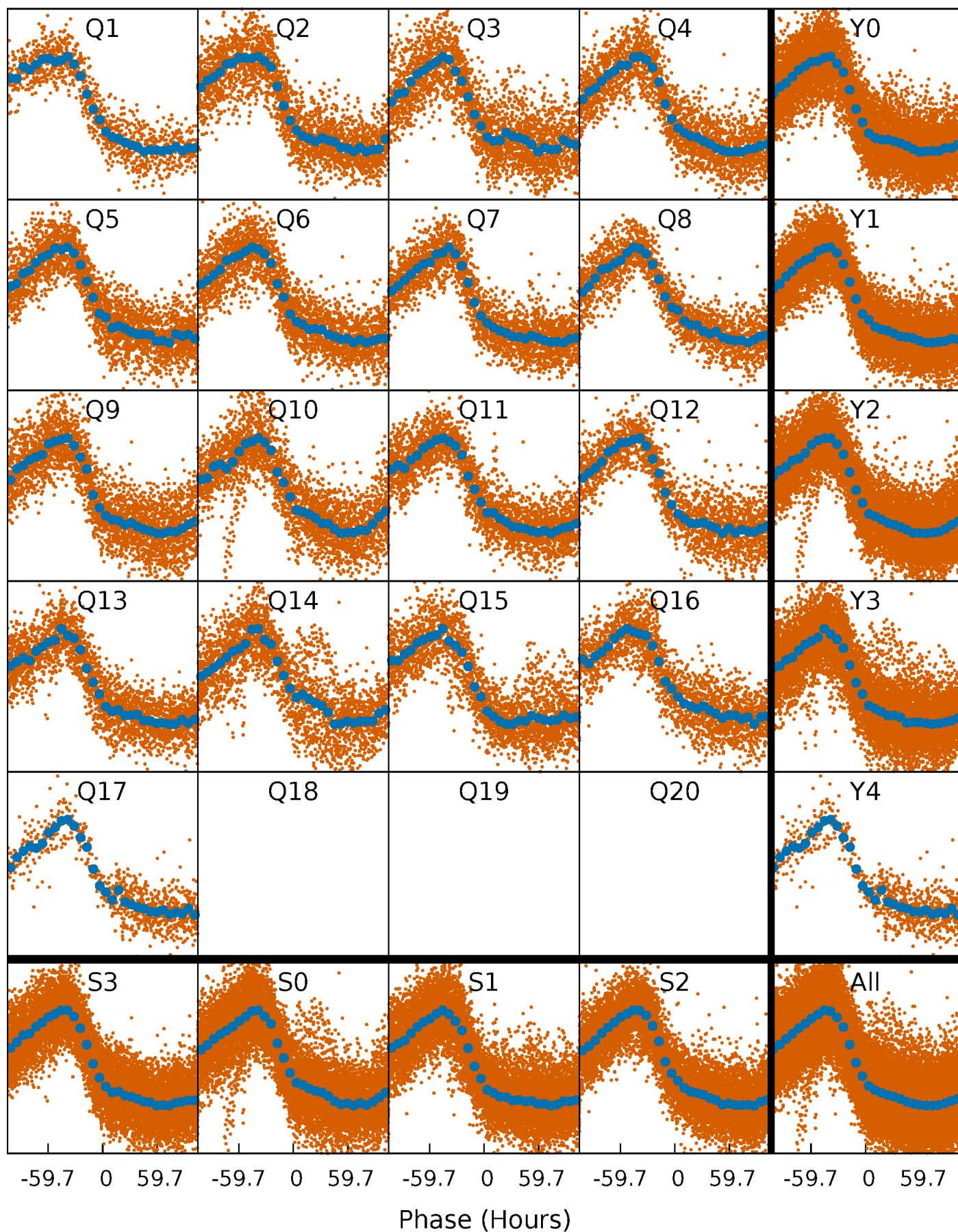


Non-Whitened Vs. Whitened Light Curve



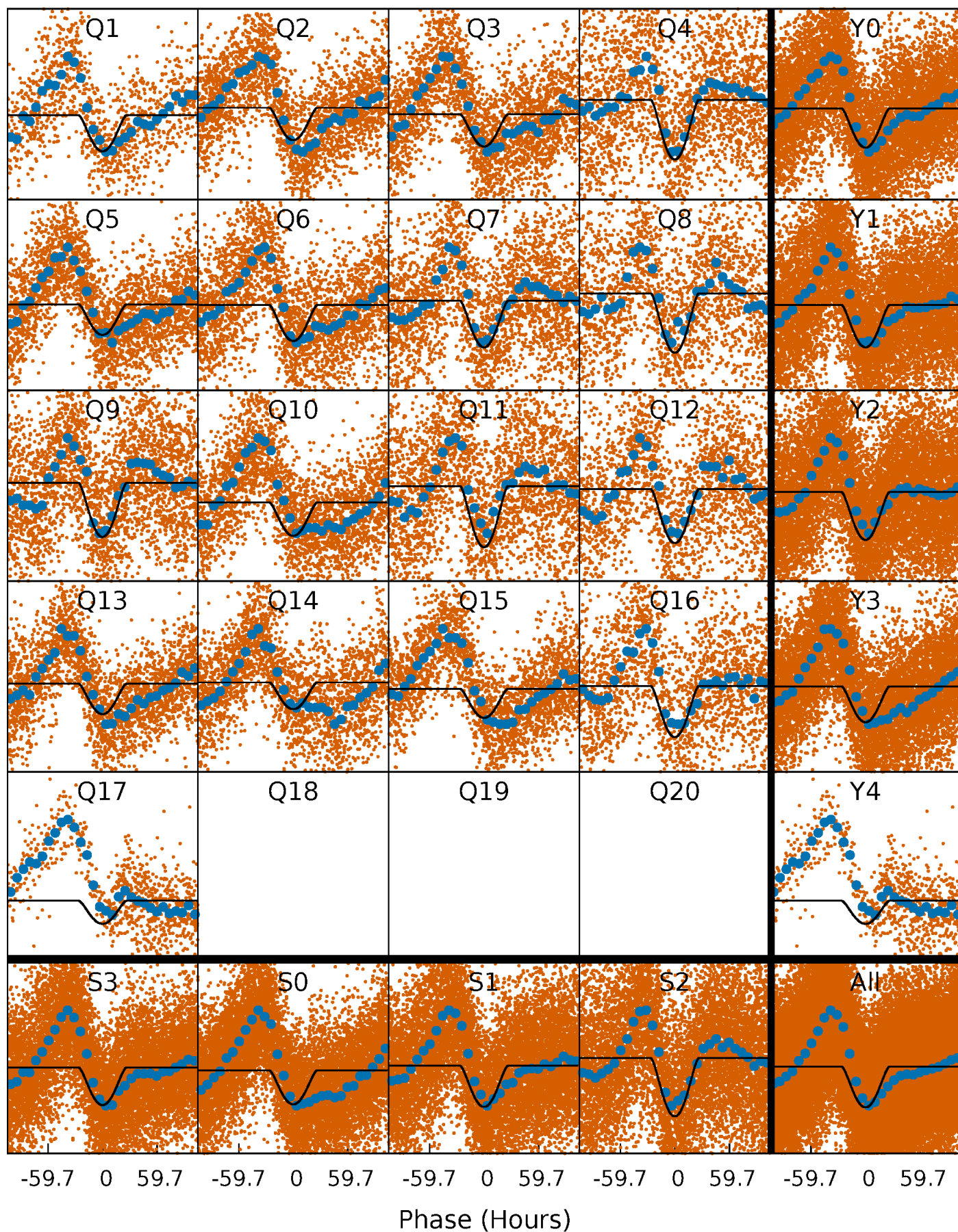
PDC Quarter-Phased Transit Curves

TCE 005269411-01 P= 14.094877 Days $T_0=134.800160$ (BKJD)



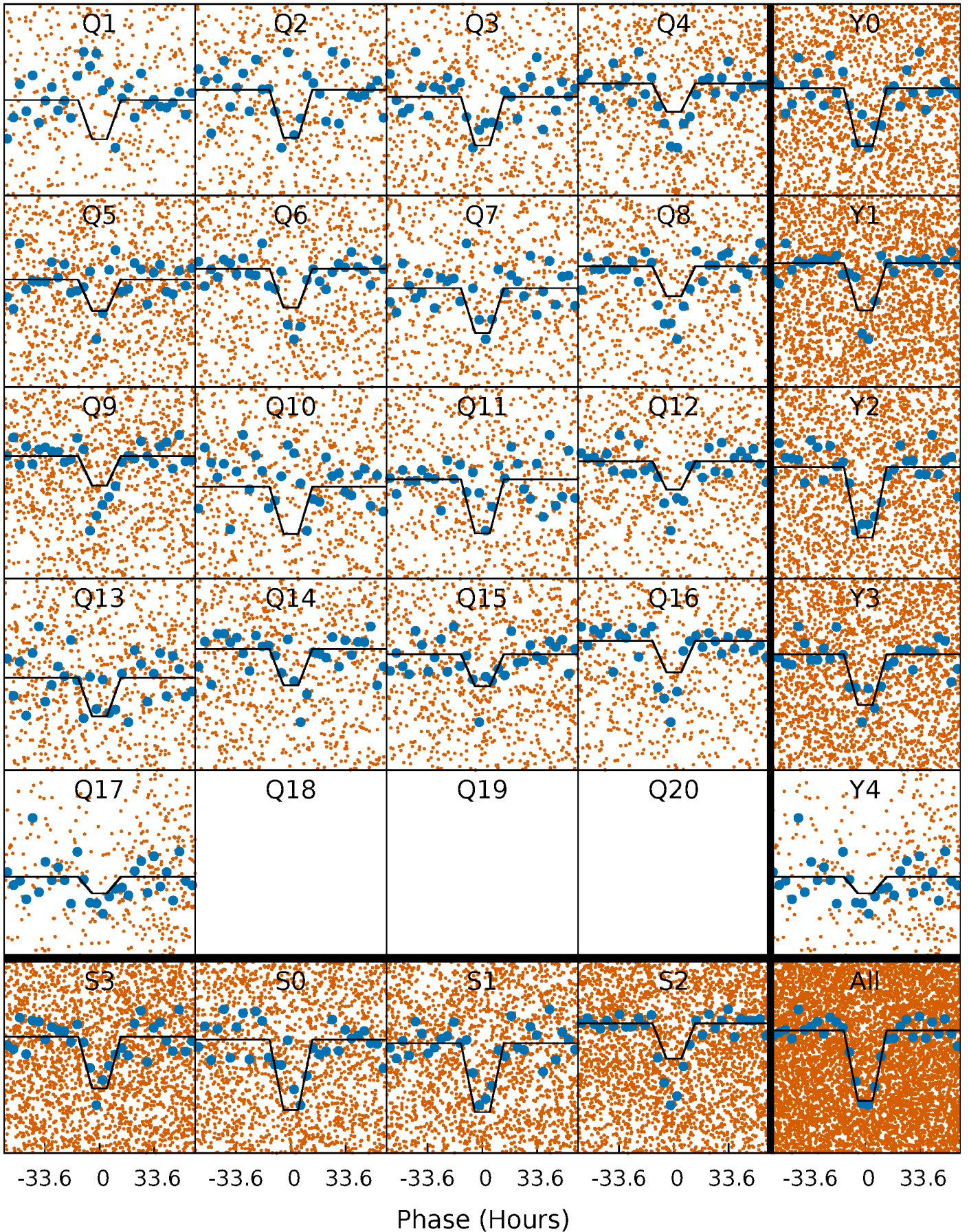
DV Quarter-Phased Transit Curves

TCE 005269411-01 P= 14.094877 Days $T_0=134.800160$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

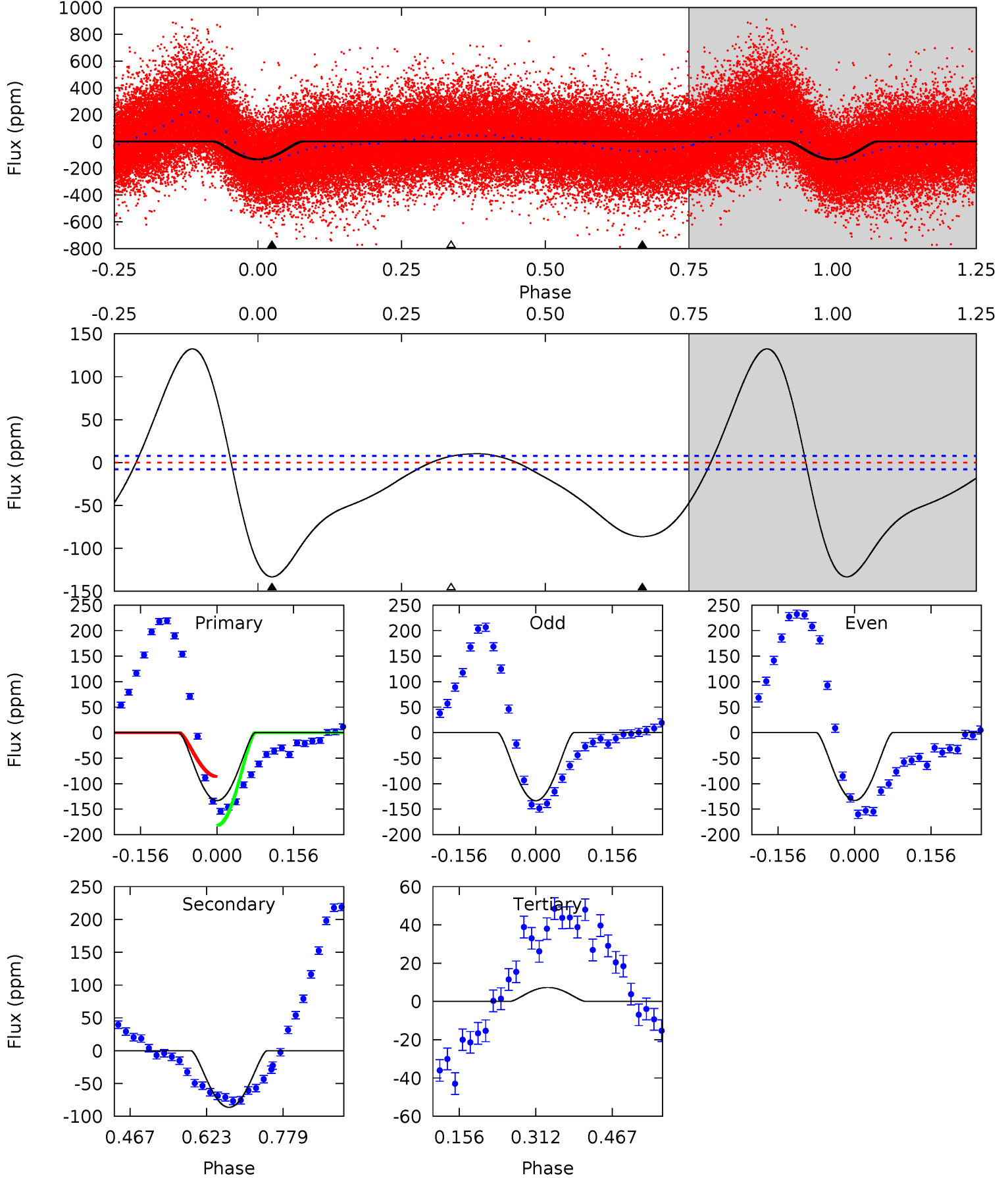
TCE 005269411-01 P= 14.094328 Days $T_0=134.591898$ (BKJD)



DV Model-Shift Uniqueness Test

005269411-01, P = 14.094877 Days, E = 120.705283 Days

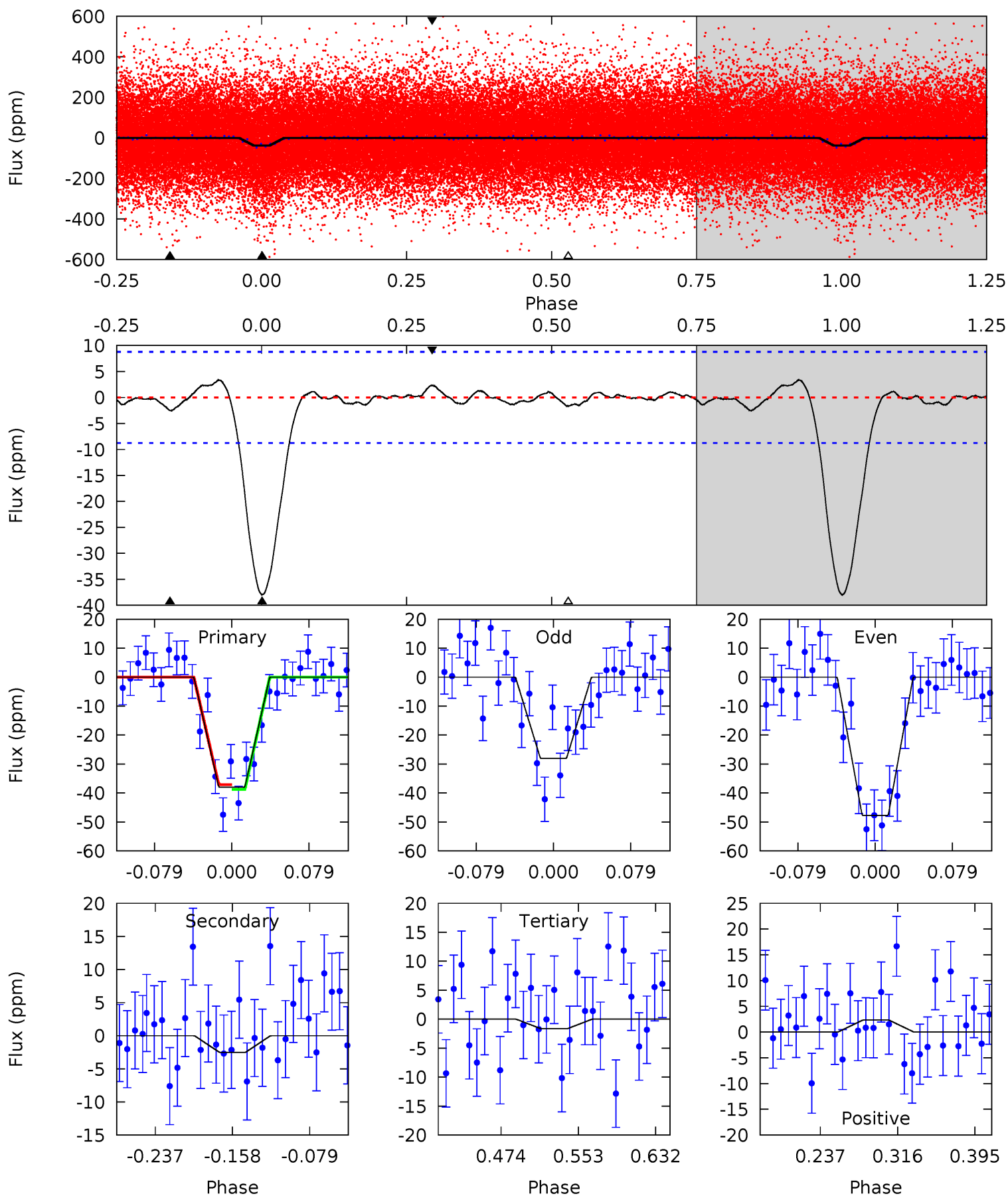
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
75.9	49.2	-4.17	0	4.47	1.42	20.9	80.1	75.9	53.4	49.2	0.12	2.27	0.50	24.8



Alt Model-Shift Uniqueness Test

005269411-01, P = 14.094328 Days, E = 120.497570 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.0	1.32	0.87	1.23	4.61	1.76	0.43	19.1	18.8	0.44	0.09	5.18	1.04	0.08	0.43



Stellar Parameters For KIC 005269411

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6088^{+165}_{-202}	$4.315^{+0.136}_{-0.187}$	$-0.060^{+0.250}_{-0.300}$	$1.177^{+0.369}_{-0.199}$	$1.040^{+0.167}_{-0.125}$	$0.899^{+0.638}_{-0.453}$
	+3%/-3%	+3%/-4%	+417%/-500%	+31%/-17%	+16%/-12%	+71%/-50%
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 005269411-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-86 ± 2	$3.08^{+1.76}_{-1.60}$	1199^{+89}_{-70}	4108^{+1484}_{-589}	68^{+209}_{-40}
Alt.	-3 ± 2	$1.53^{+1.43}_{-1.02}$	1196^{+87}_{-71}	2859^{+1233}_{-678}	$6.726^{+58.191}_{-5.716}$

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

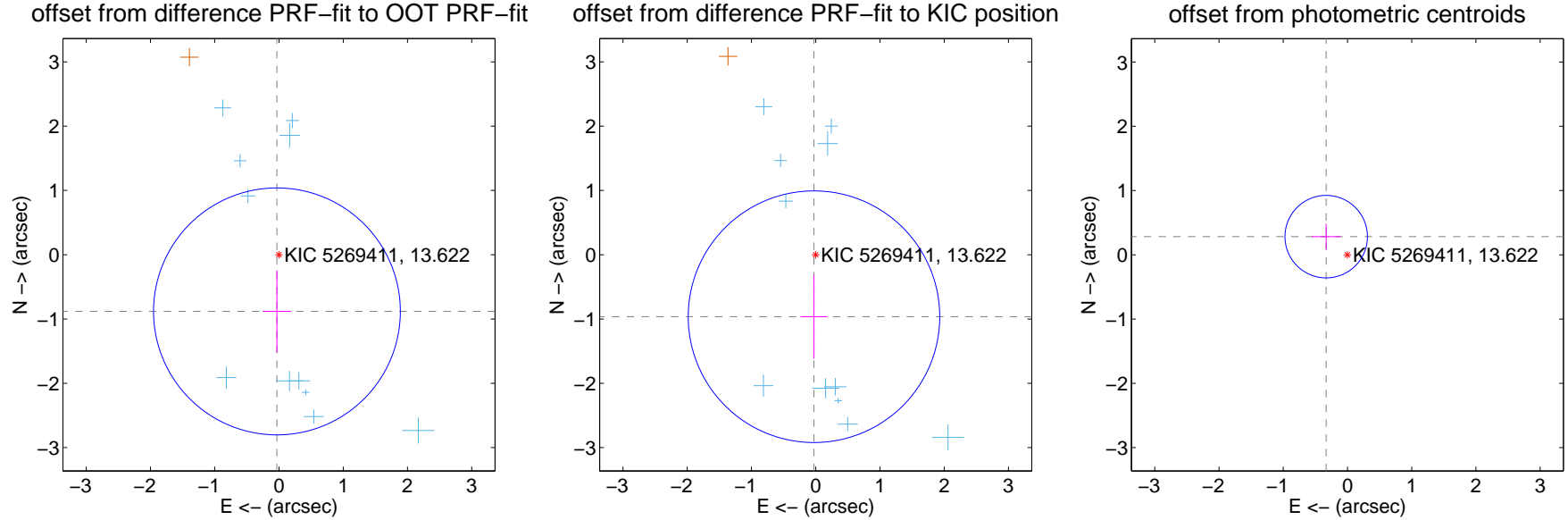
DV Centroid Data

Supplemental centroid analysis for 005269411-01. Kepler magnitude: 13.62. Transit SNR 23.39

There are 12 quarters with good PRF difference image offsets

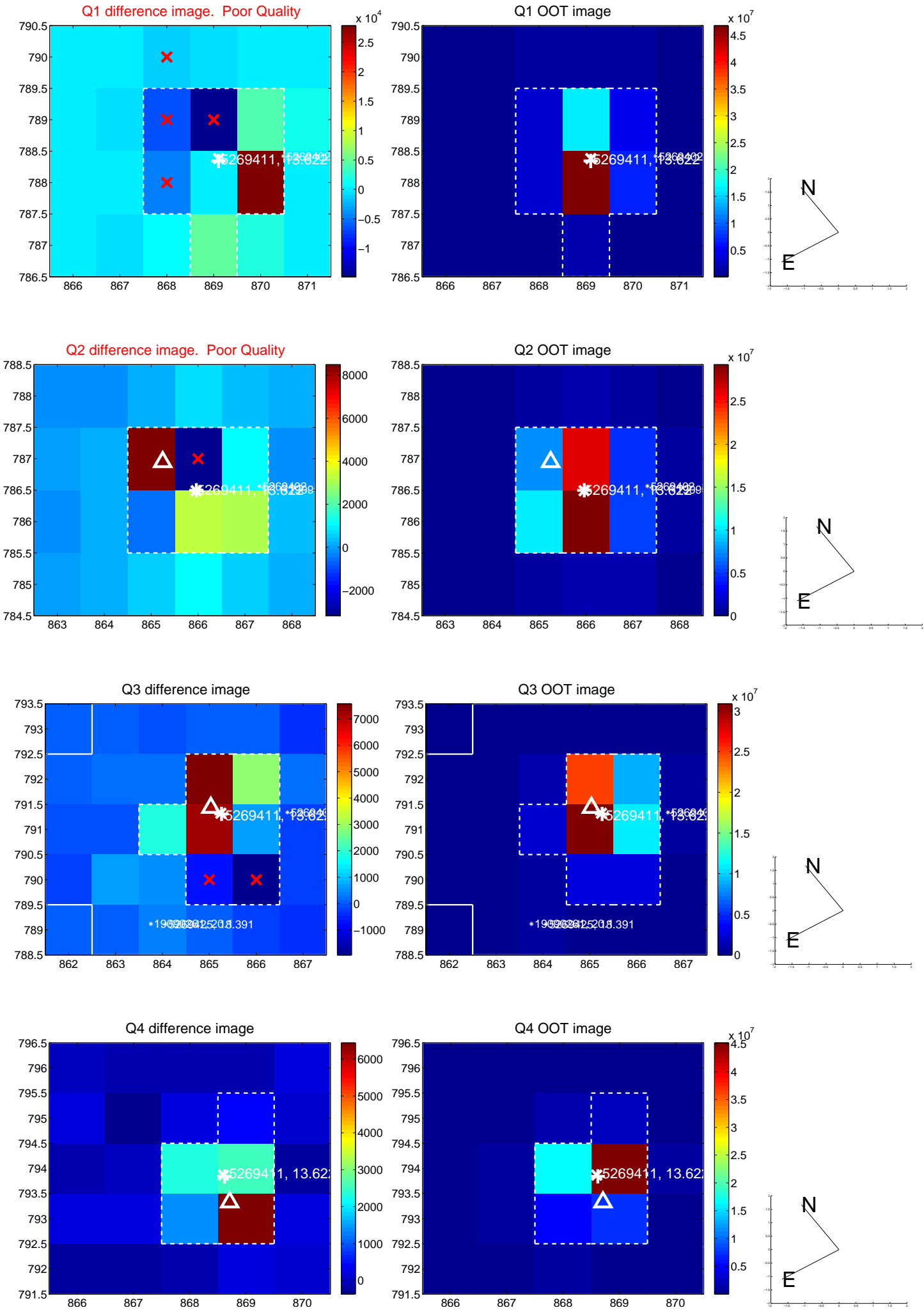
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.882 ± 0.640	1.38	0.032 ± 0.221	-0.882 ± 0.640
PRF-fit source offset from KIC position	0.964 ± 0.652	1.48	0.027 ± 0.210	-0.964 ± 0.652
photometric centroid source offset	0.44 ± 0.21	2.03	0.33 ± 0.22	0.28 ± 0.20

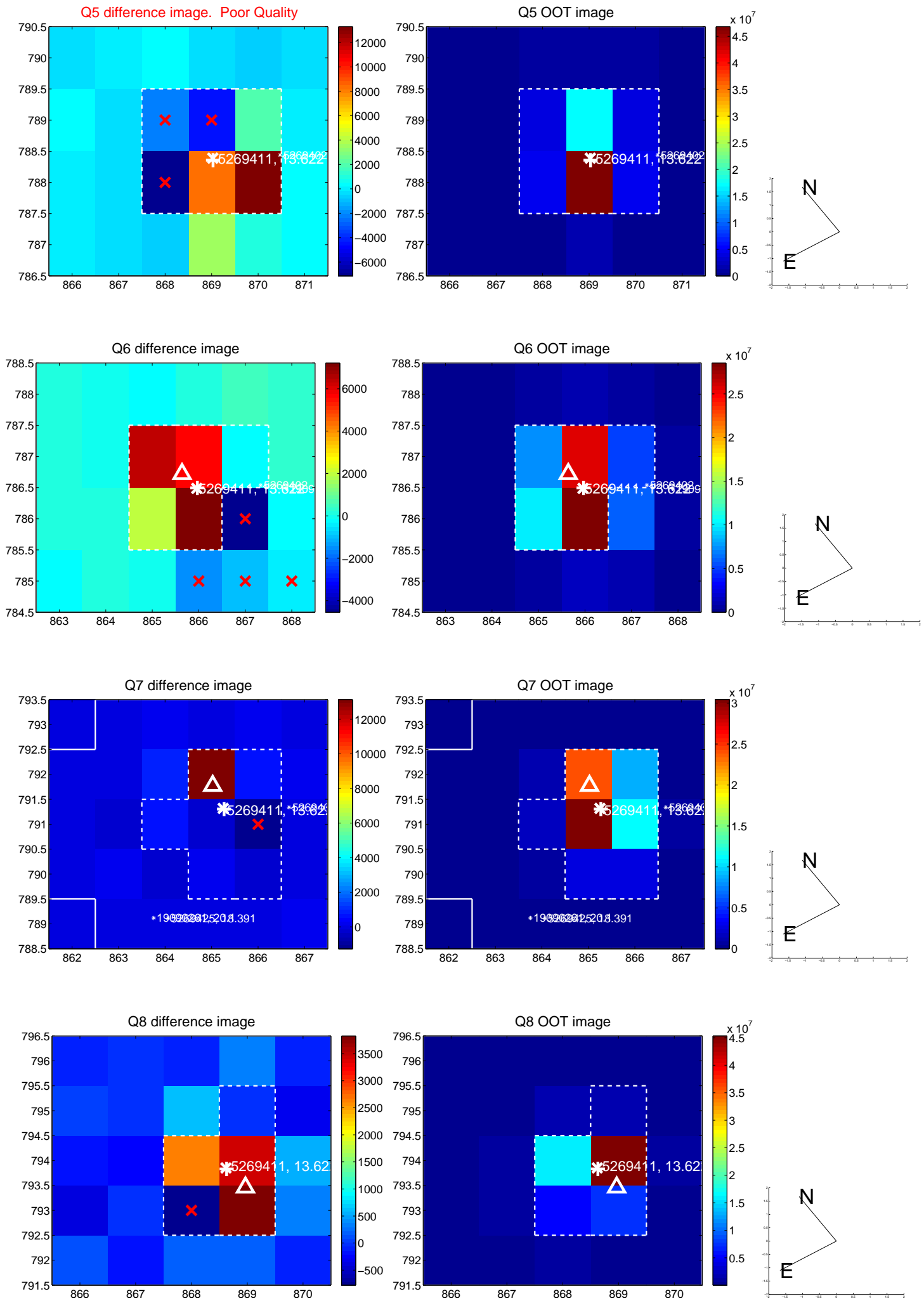


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

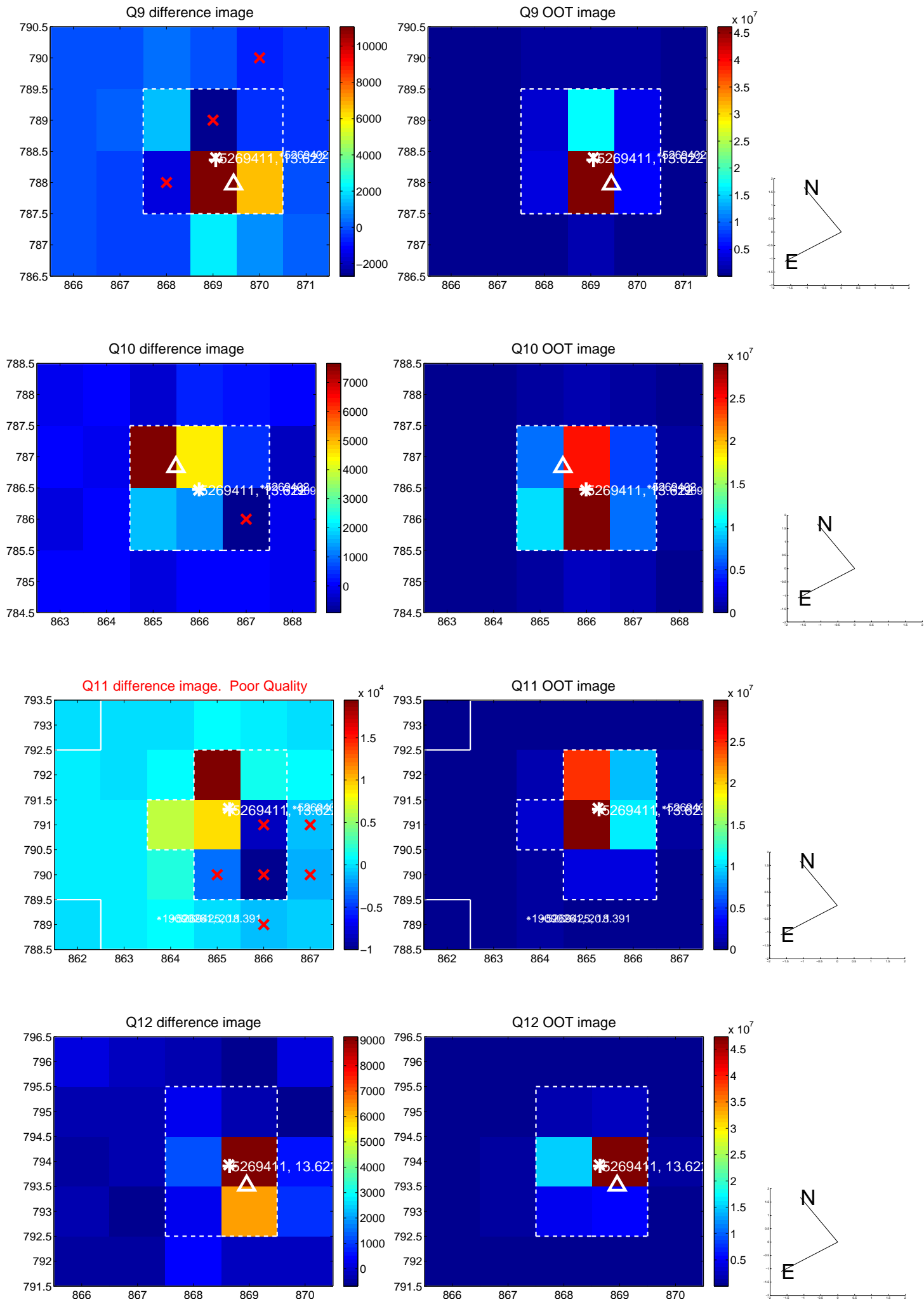
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



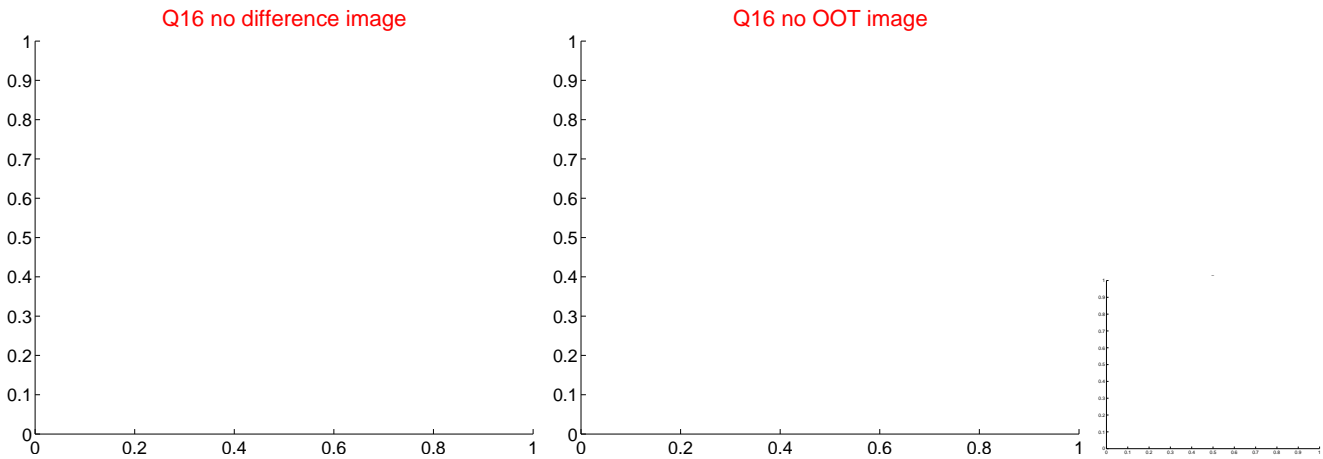
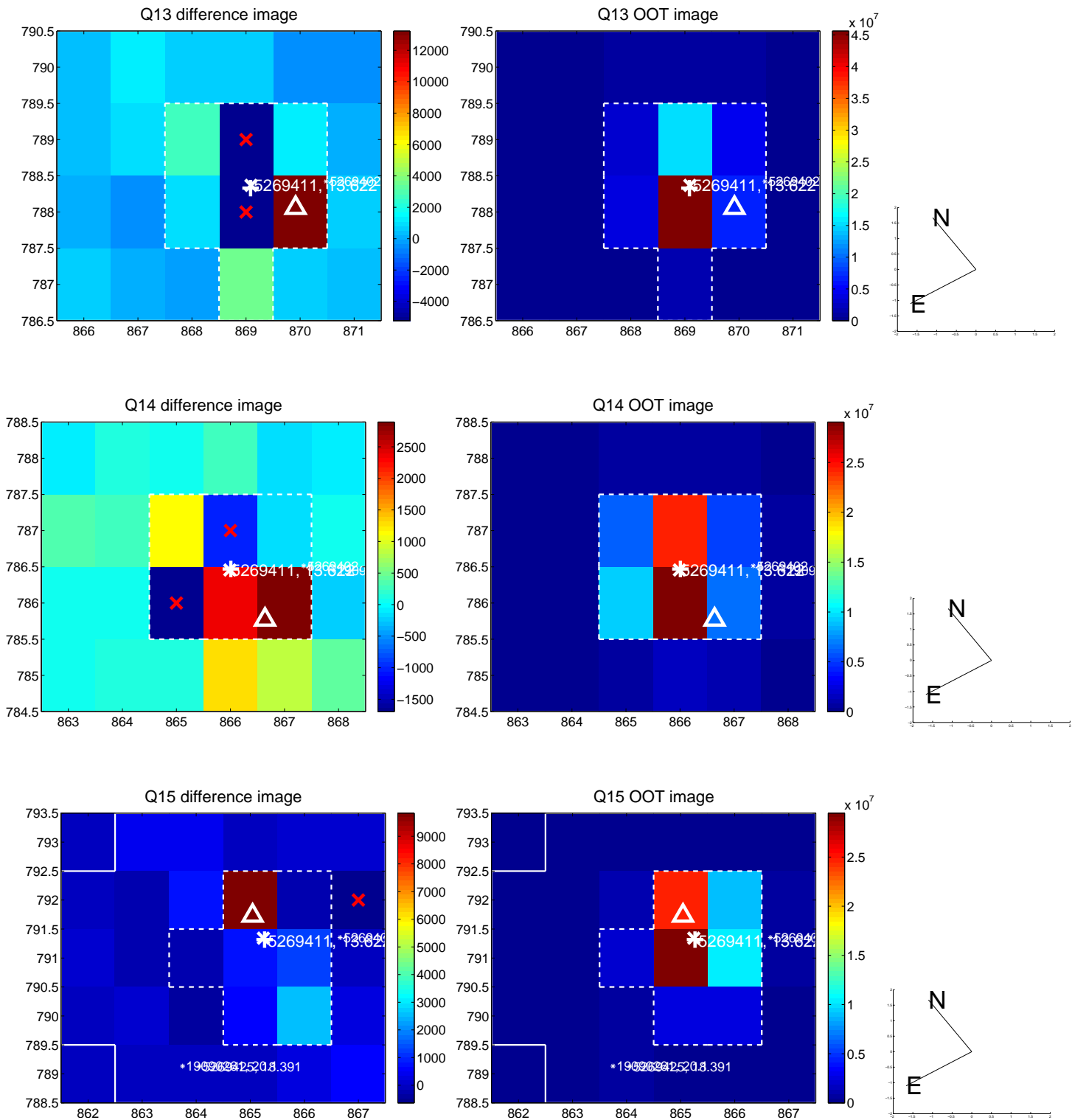
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



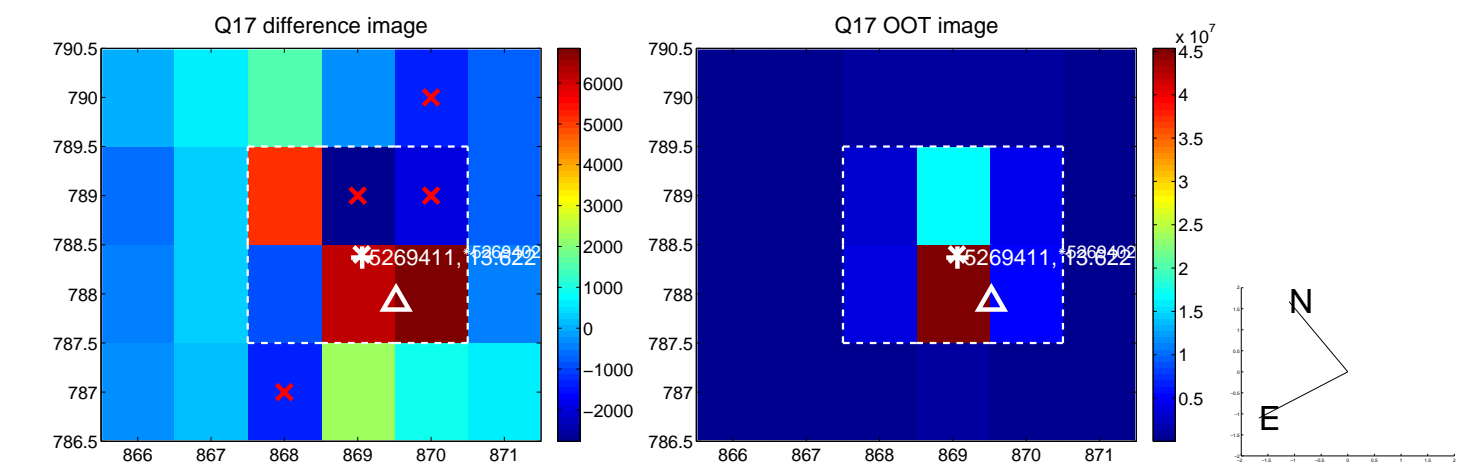
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



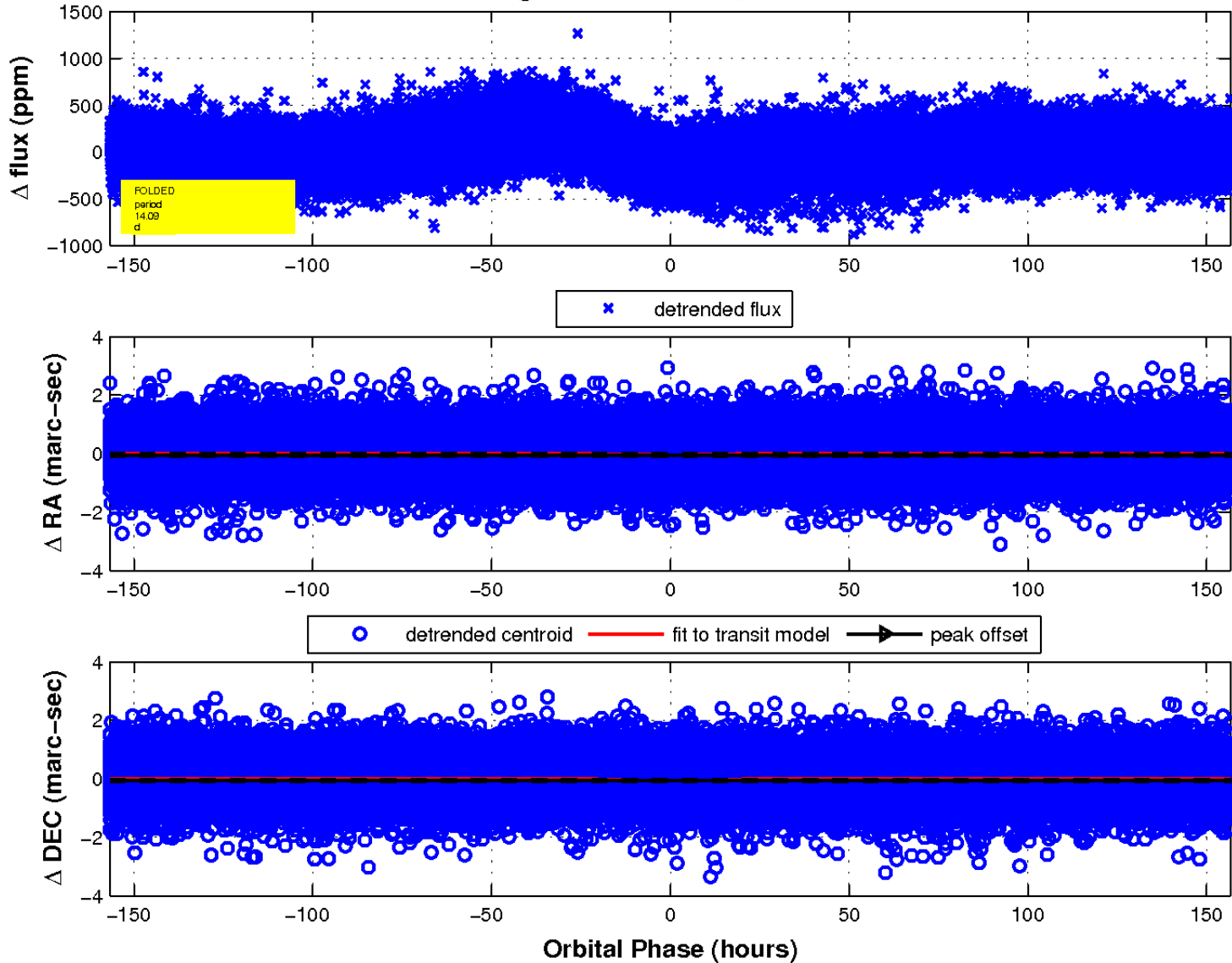
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

