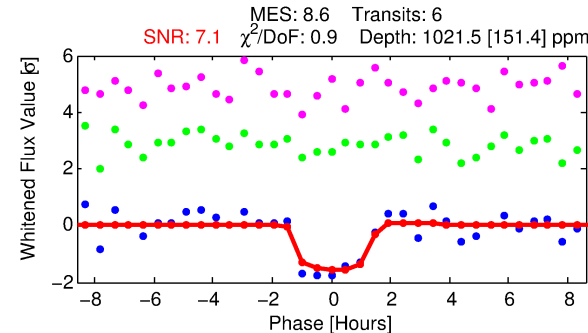
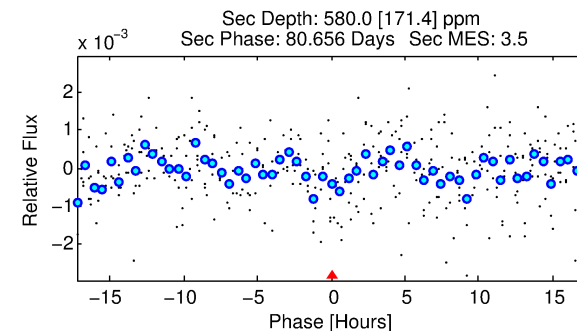
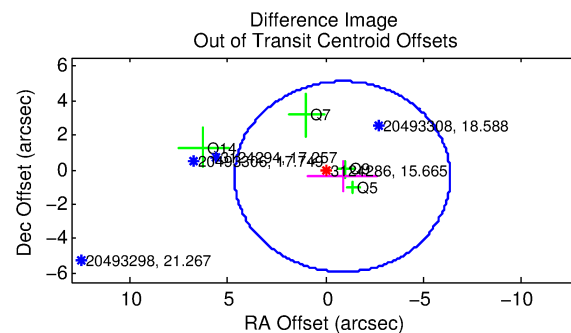
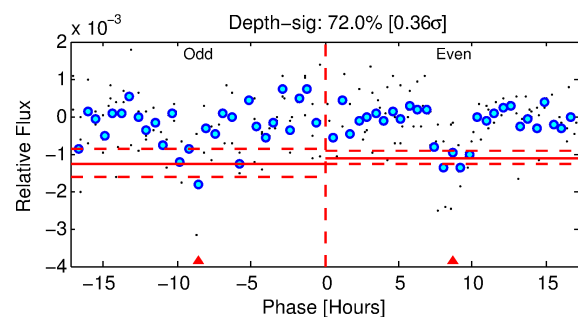
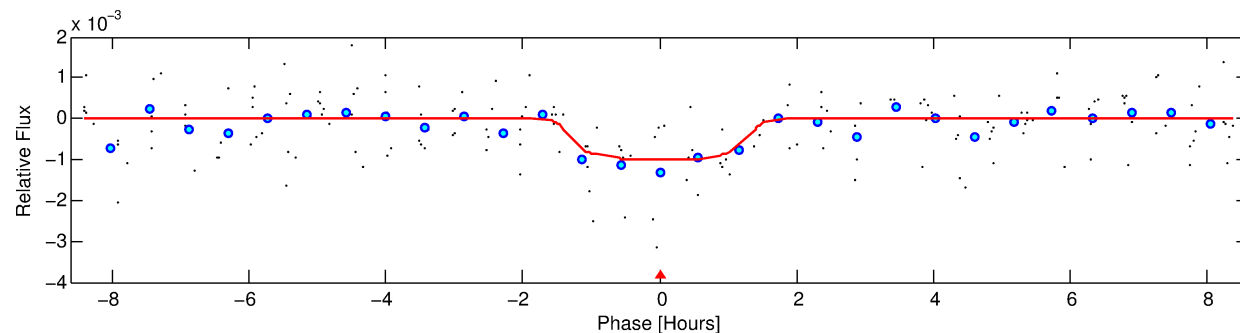
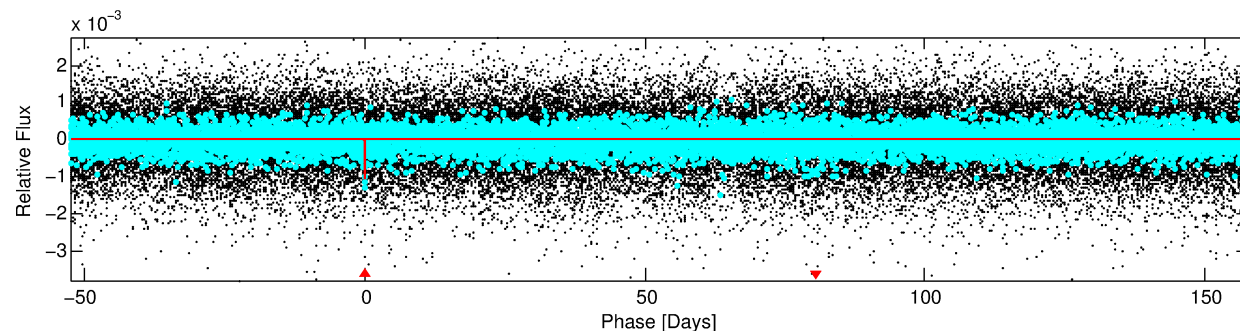
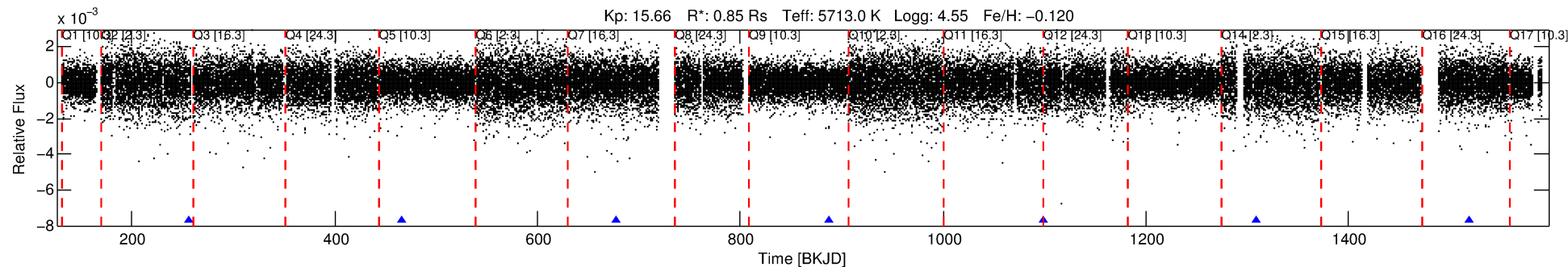


**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**

DV One-Page Summary

KIC: 3124286 Candidate: 1 of 1 Period: 210.547 d

**WARNING: THIS DATA IS
SIMULATED, NOT OBSERVED**



DV Fit Results:

Period = 210.54724 [0.00324] d
Epoch = 256.1804 [0.0104] BKJD
Rp/R* = 0.0315 [0.0450]
a/R* = 411.10 [2539.07]
b = 0.72 [4.15]
Seff = 1.49 [0.47]
Teq = 282 [22] K
Rp = 2.93 [4.23] Re
a = 0.6801 [0.1329] AU
Ag = 17199.05 [49595.11] [0.35 σ]
Teffp = 4992 [3584] K [1.31 σ]

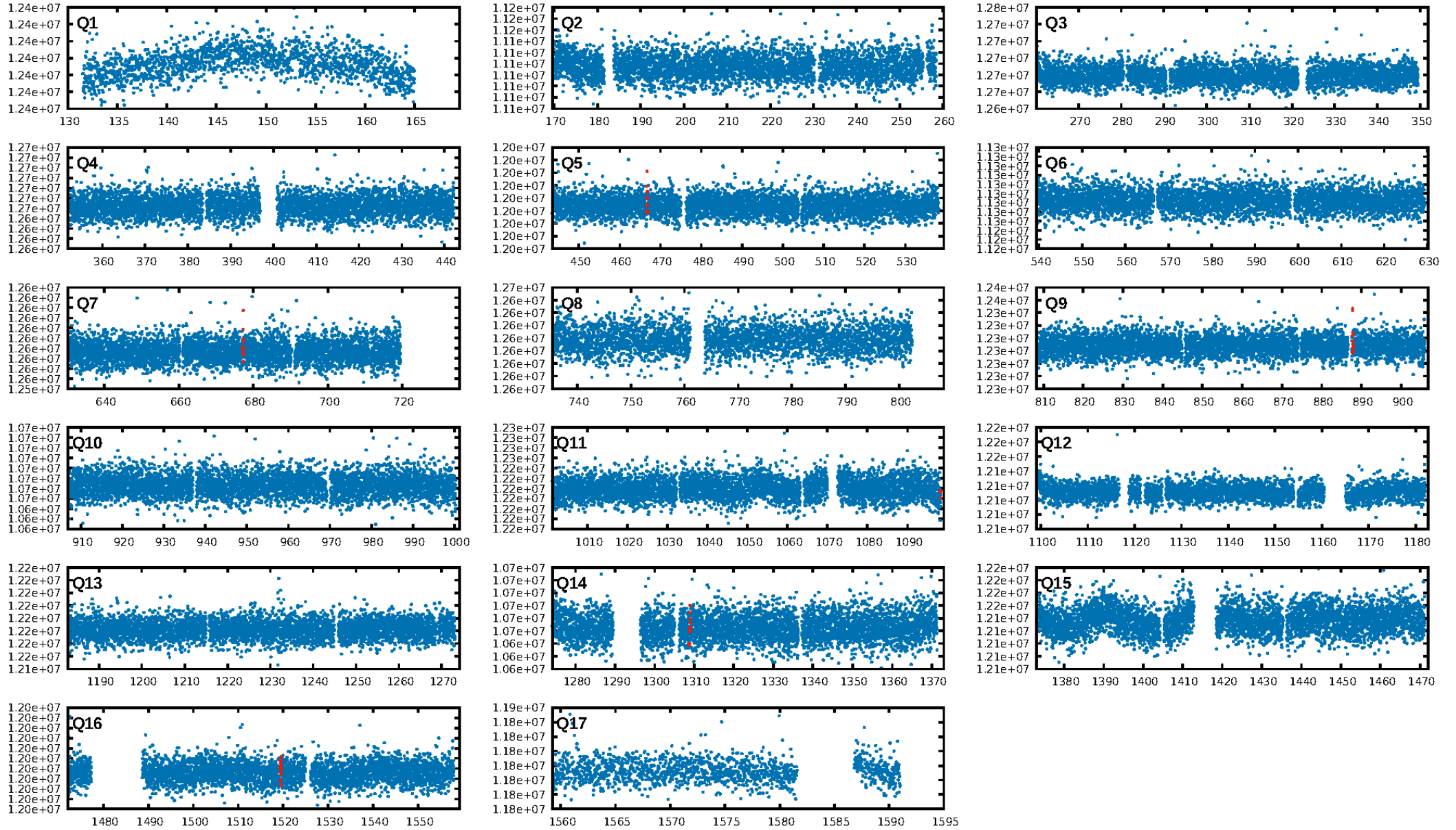
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 93.1%
ModelChiSquareGof-sig: 99.9%
Bootstrap-pfa: 4.13e-15
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: 1.553
Centroid-sig: 11.9%
Centroid-so: 3.766 arcsec [1.72 σ]
OotOffset-rm: 0.952 arcsec [0.52 σ]
OotOffset-st: 1/1/0/2 [4]
KicOffset-rm: 0.818 arcsec [0.59 σ]
KicOffset-st: 1/1/0/2 [4]
DiffImageQuality-fgm: 0.25 [1/4]
DiffImageOverlap-fno: 1.00 [5/5]

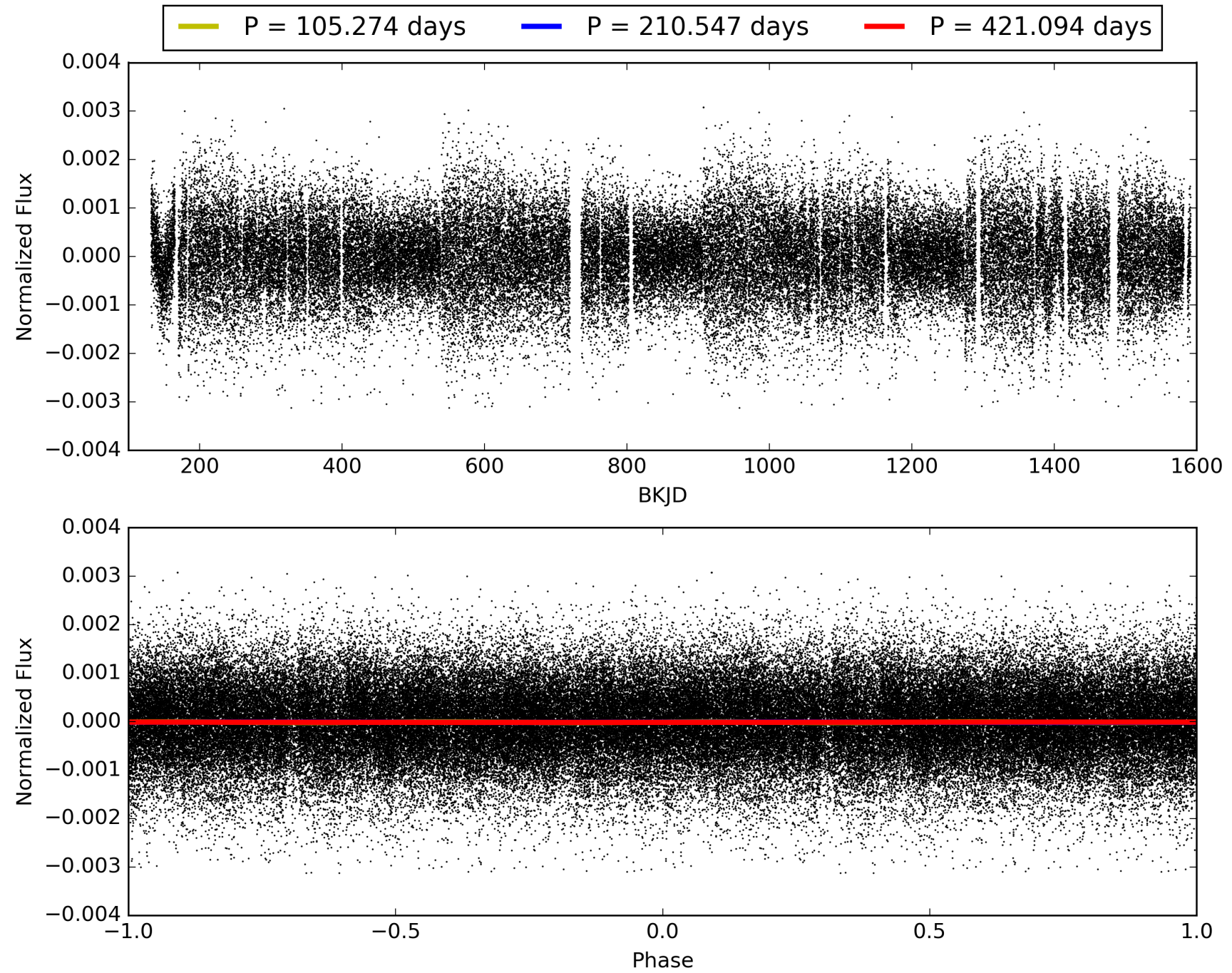
Software Revision: svn+ssh://murzim/repo/soc/branches/integ/ksop-2320@61025 -- Date Generated: 11-Mar-2016 04:23:14 Z

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

TCE 003124286-01, PDC Light Curves

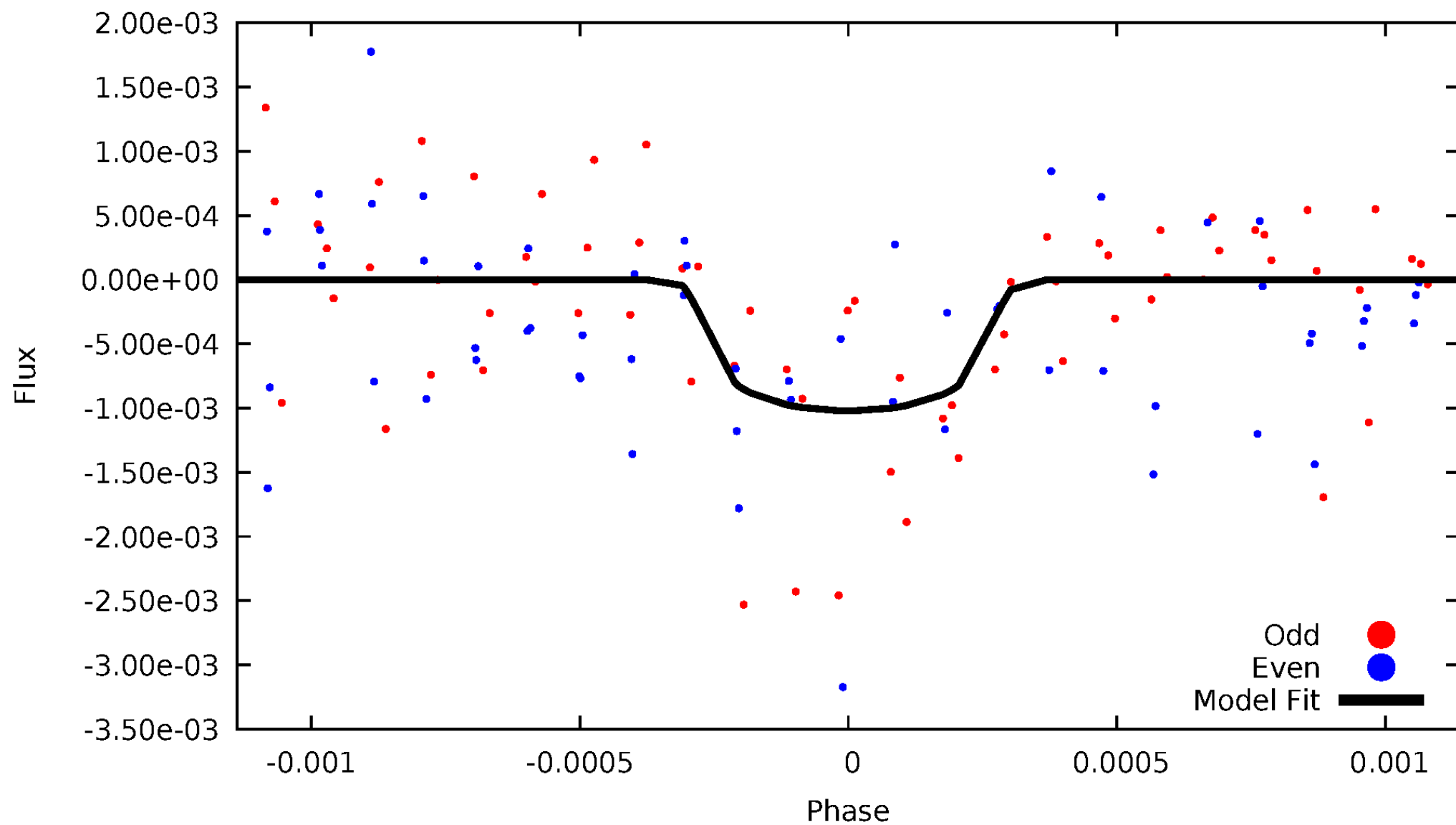


TCE 003124286-01



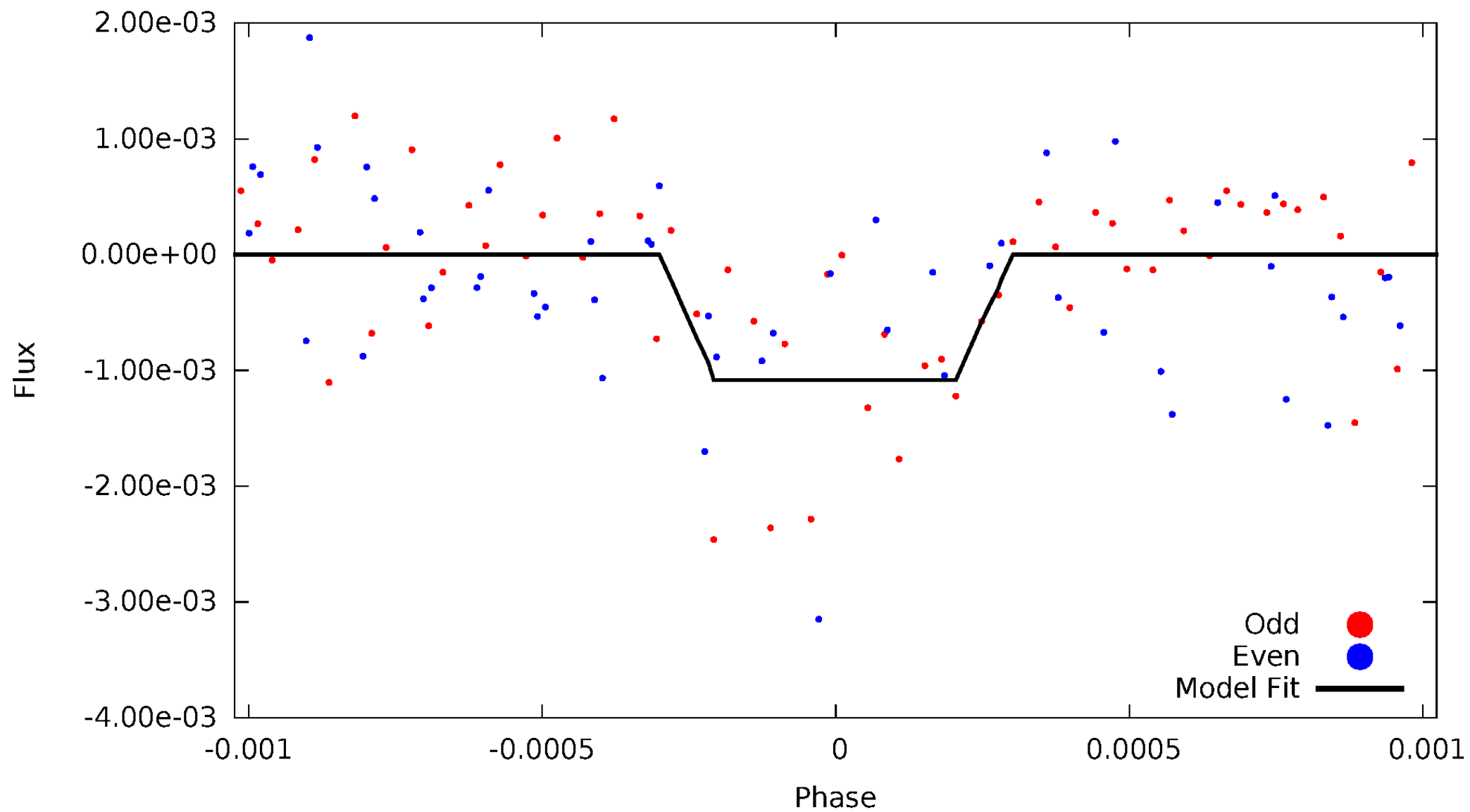
DV Odd/Even

TCE 003124286-01

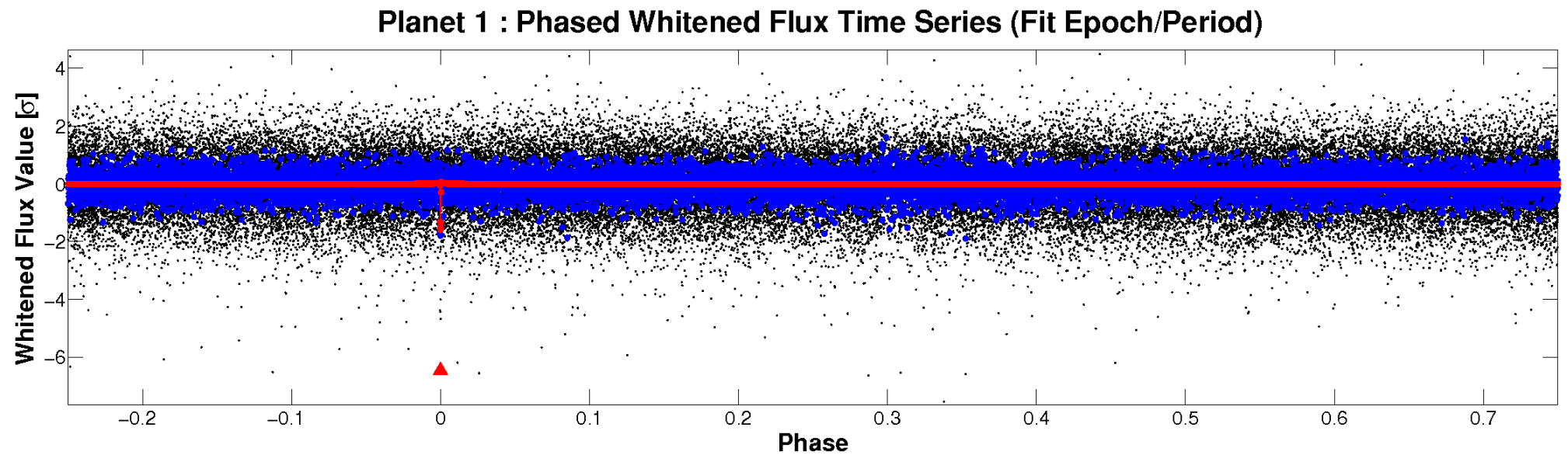
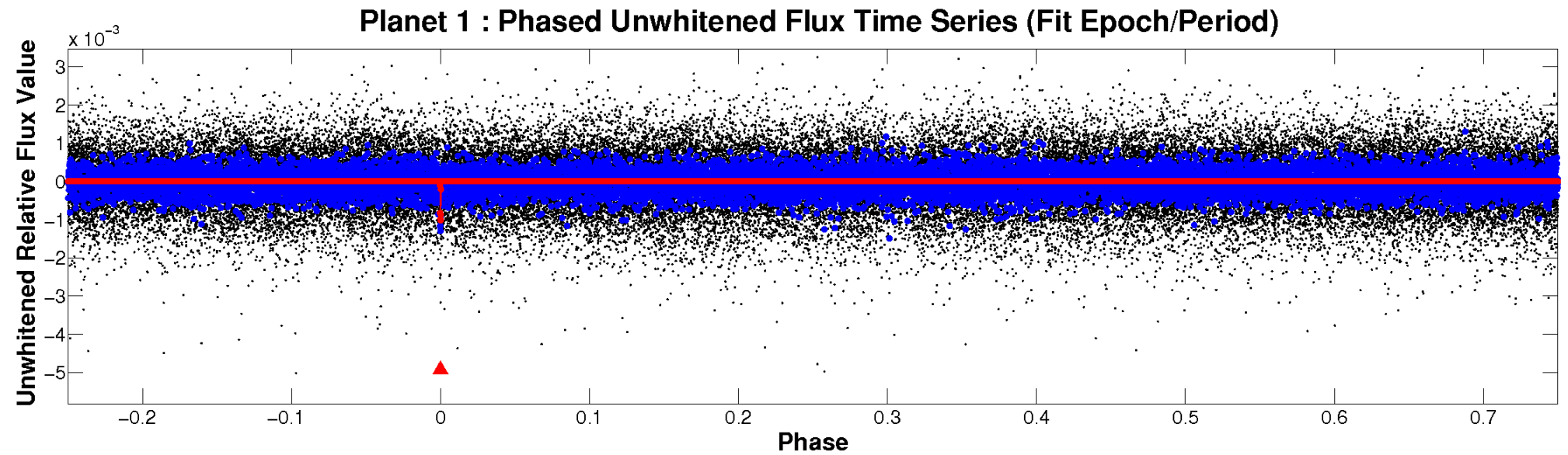


ALT Odd/Even

TCE 003124286-01

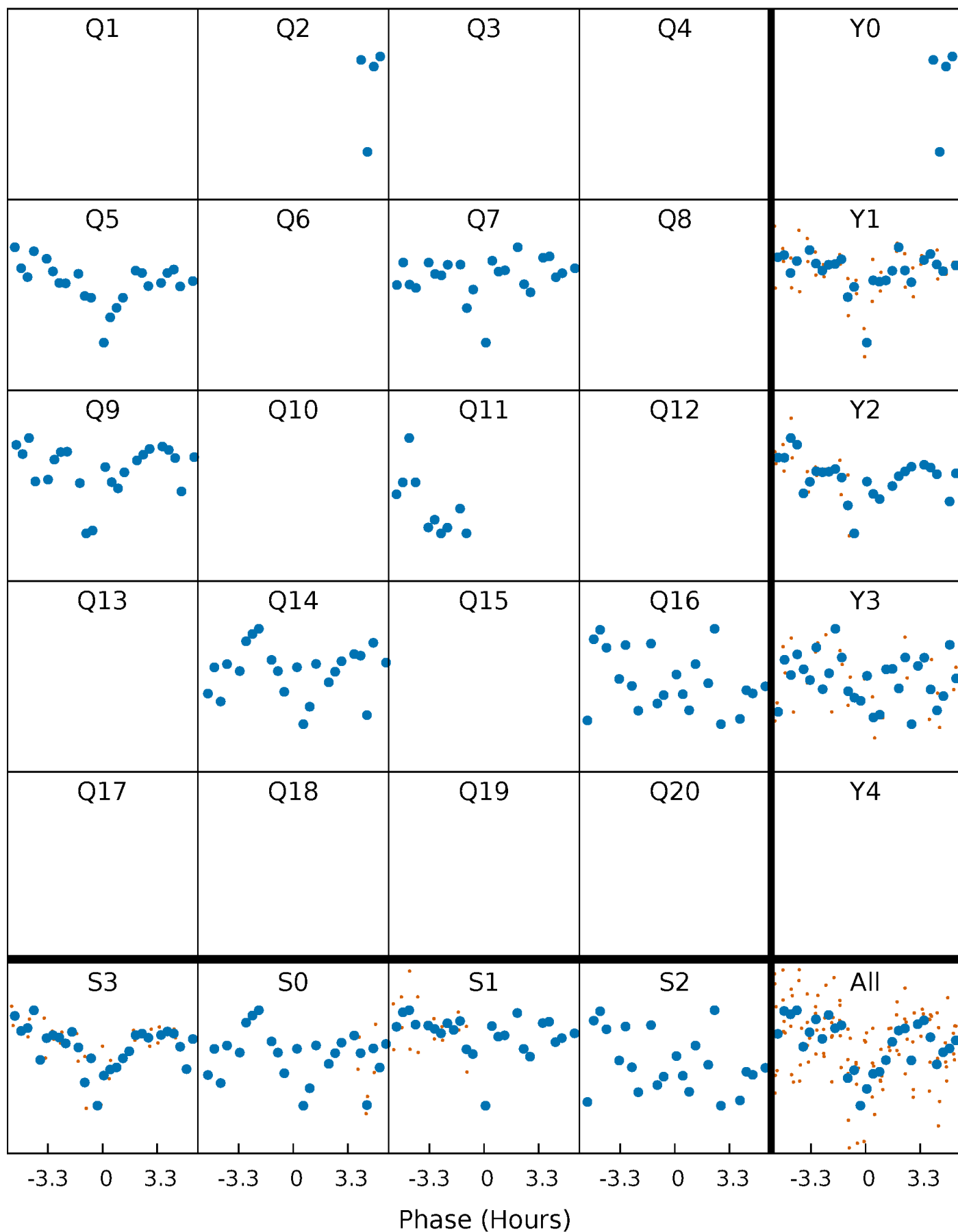


Non-Whitened Vs. Whitened Light Curve



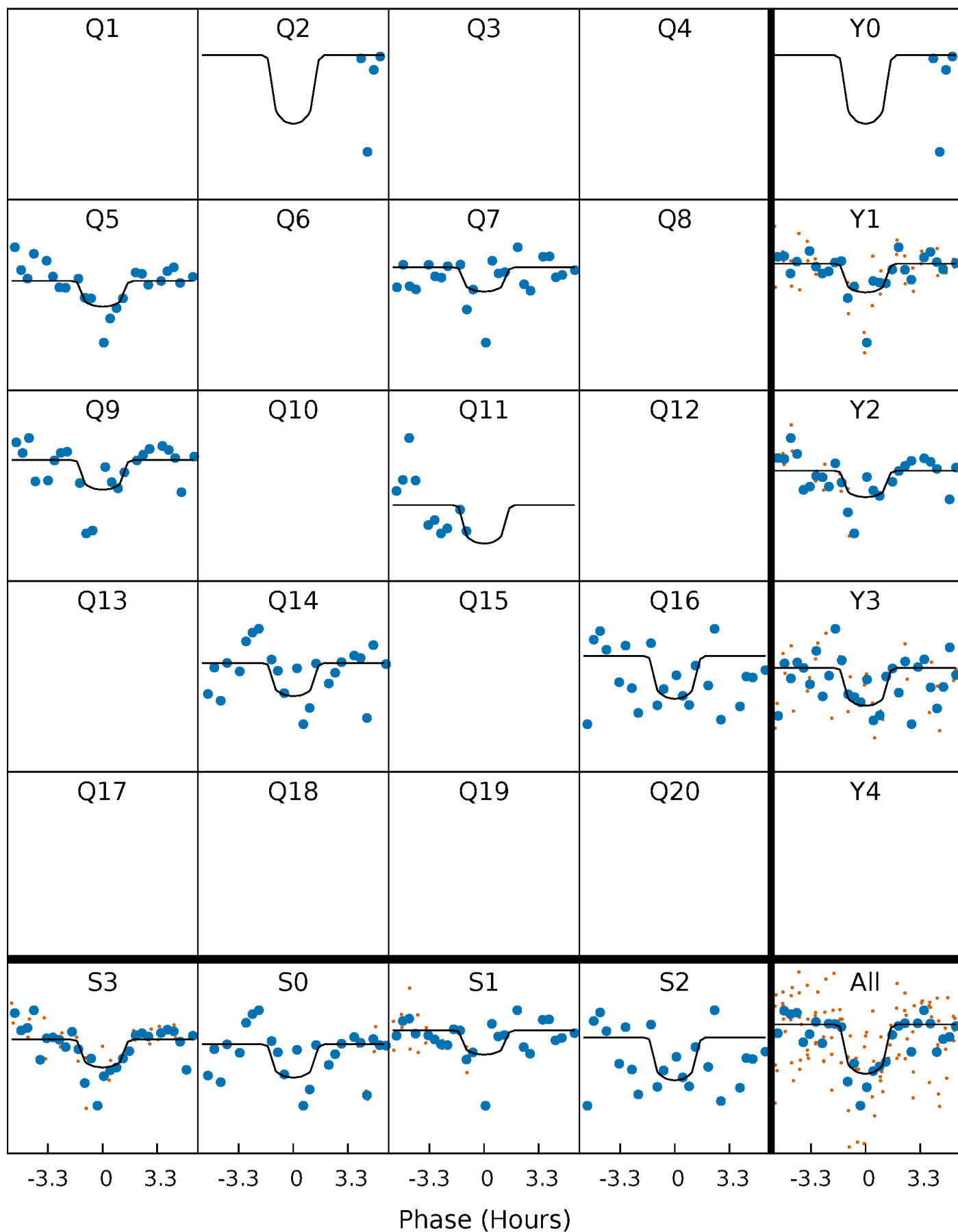
PDC Quarter-Phased Transit Curves

TCE 003124286-01 P=210.547245 Days $T_0=256.180425$ (BKJD)



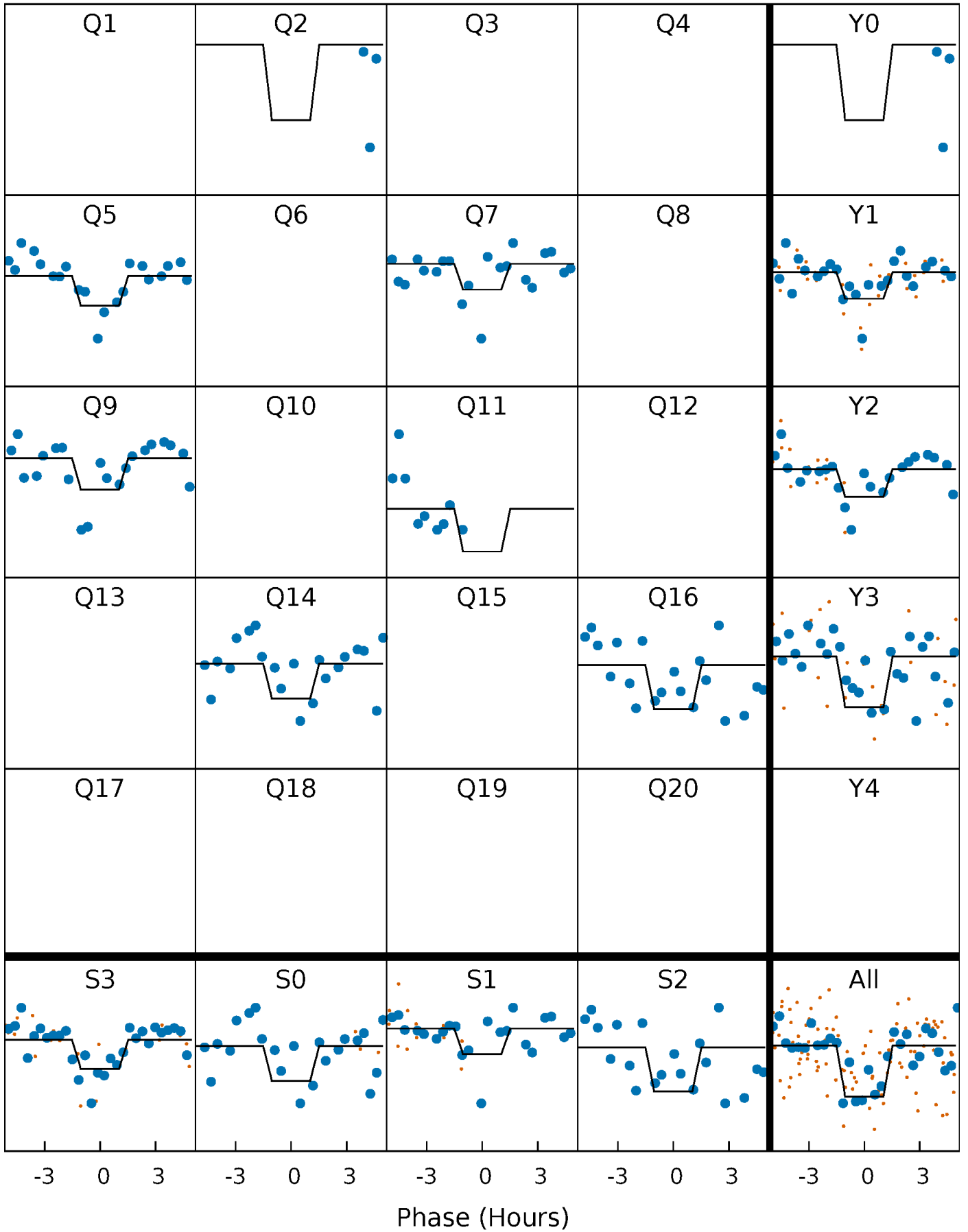
DV Quarter-Phased Transit Curves

TCE 003124286-01 P=210.547245 Days $T_0=256.180425$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

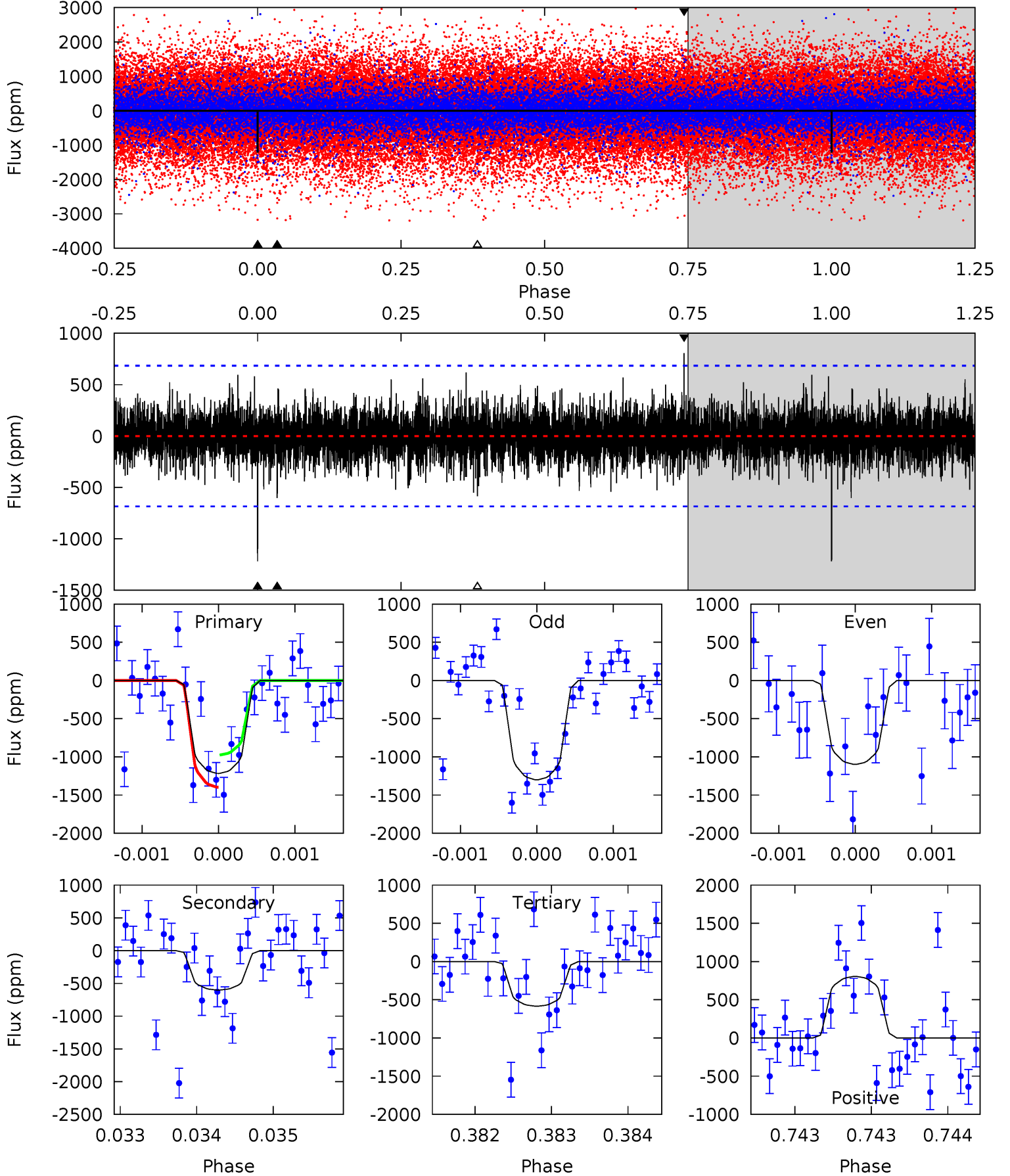
TCE 003124286-01 P=210.546007 Days $T_0=256.186836$ (BKJD)



DV Model-Shift Uniqueness Test

003124286-01, P = 210.547245 Days, E = 45.633180 Days

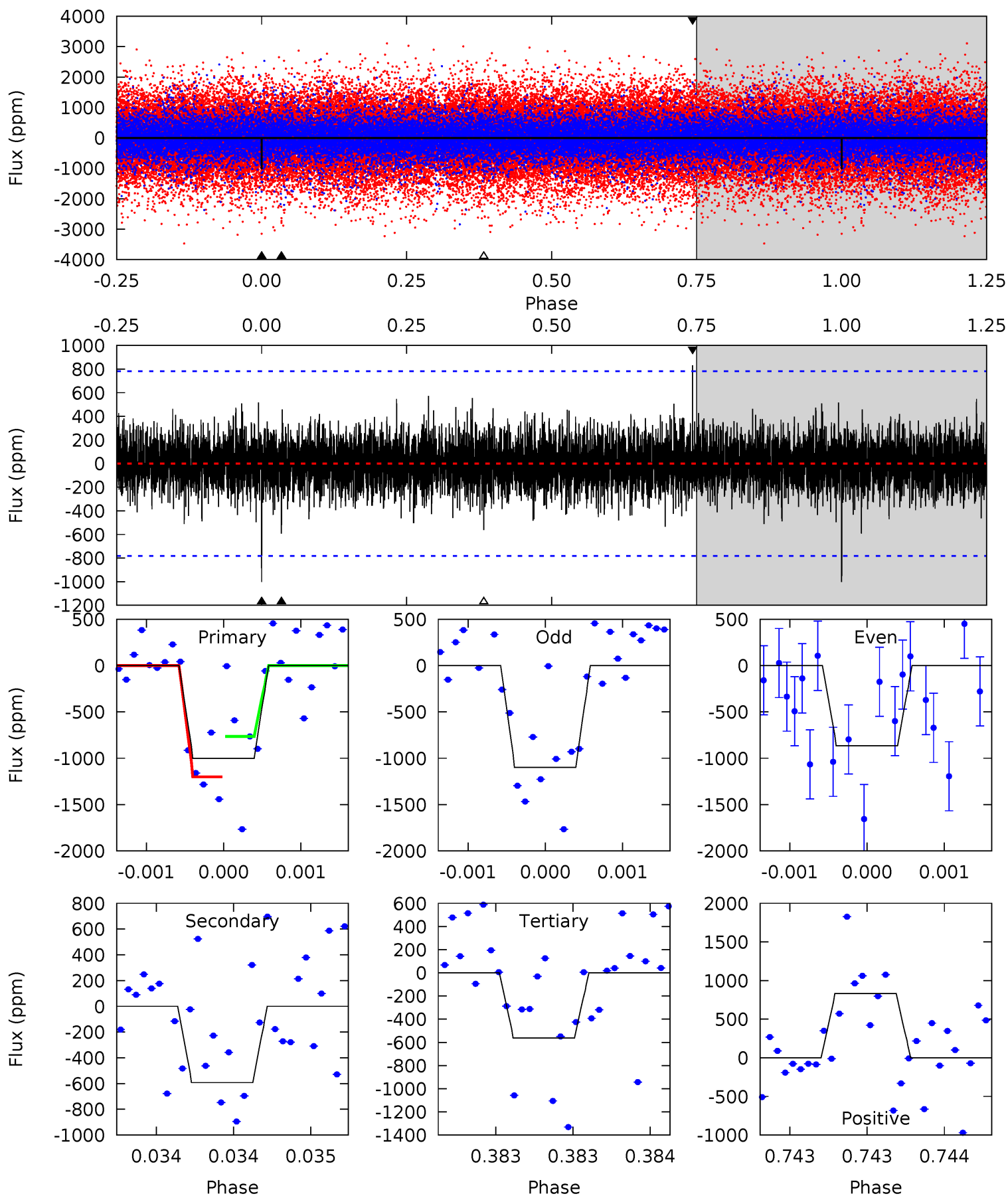
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.81	4.86	4.71	6.50	5.52	3.40	1.25	5.10	3.32	0.14	-1.64	0.81	1.04	0.40	1.69



Alt Model-Shift Uniqueness Test

003124286-01, P = 210.546007 Days, E = 45.640829 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.14	4.22	4.01	5.93	5.57	3.47	1.03	3.13	1.21	0.21	-1.71	0.84	0.92	0.45	1.55



Stellar Parameters For KIC 003124286

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5713^{+153}_{-170}	$4.554^{+0.040}_{-0.160}$	$-0.120^{+0.300}_{-0.300}$	$0.851^{+0.194}_{-0.069}$	$0.948^{+0.095}_{-0.116}$	$2.164^{+0.449}_{-0.932}$
	+3%/-3%	+1%/-4%	+250%/-250%	+23%/-8%	+10%/-12%	+21%/-43%
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 003124286-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-602 ± 124	$4.23^{+3.55}_{-2.78}$	400^{+23}_{-16}	4488^{+2746}_{-936}	8548^{+63157}_{-6262}
Alt.	-592 ± 140	$4.27^{+3.88}_{-2.82}$	402^{+21}_{-18}	4440^{+2840}_{-969}	7773^{+60616}_{-5724}

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 $A_{obs} \gg 1.0$

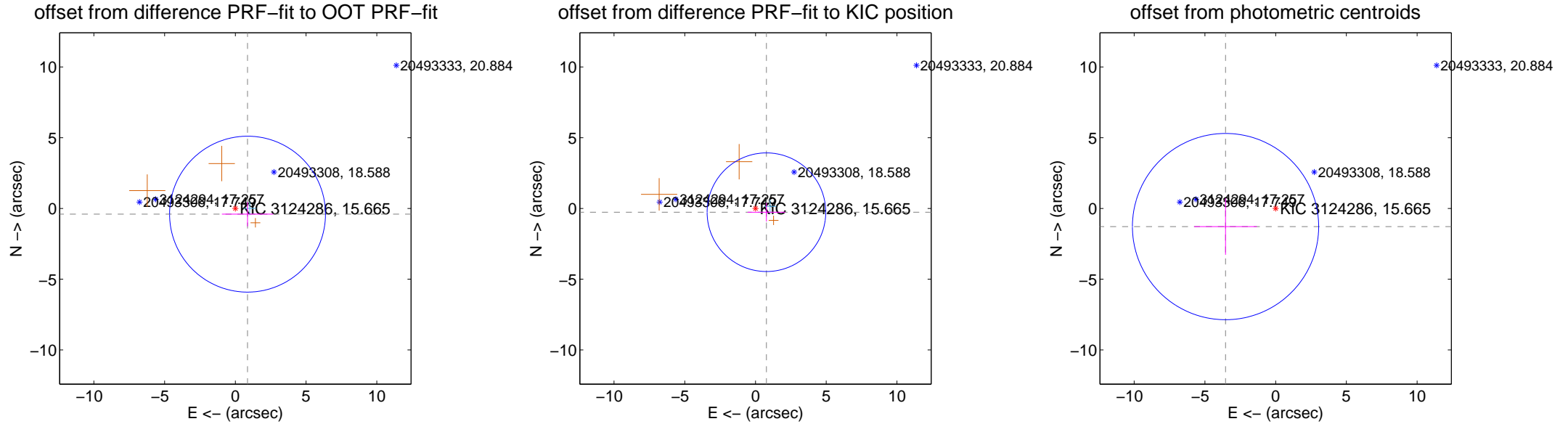
DV Centroid Data

Supplemental centroid analysis for 003124286-01. Kepler magnitude: 15.66. Transit SNR 7.05

There are 1 quarters with good PRF difference image offsets

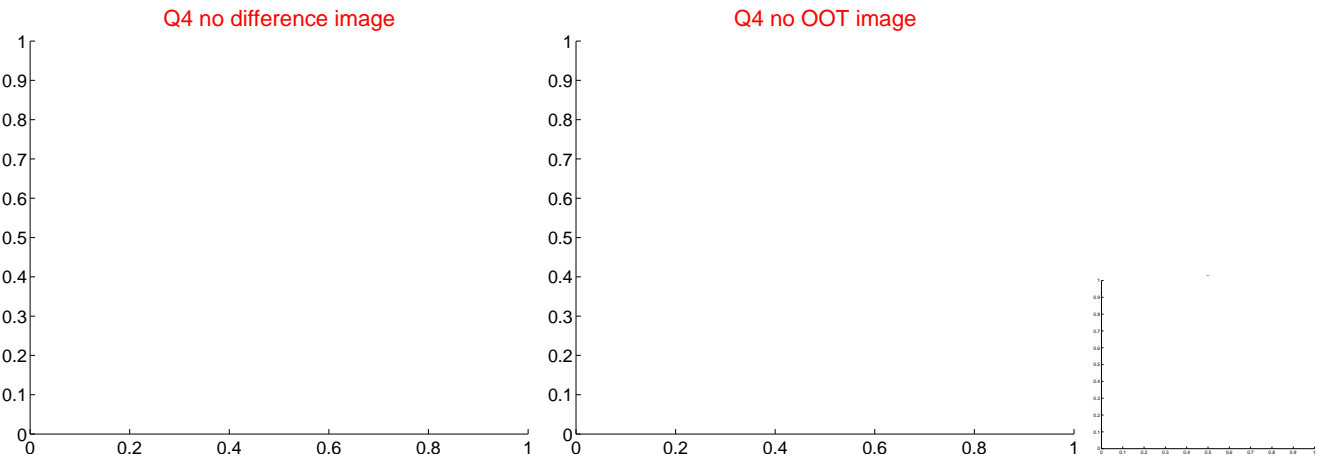
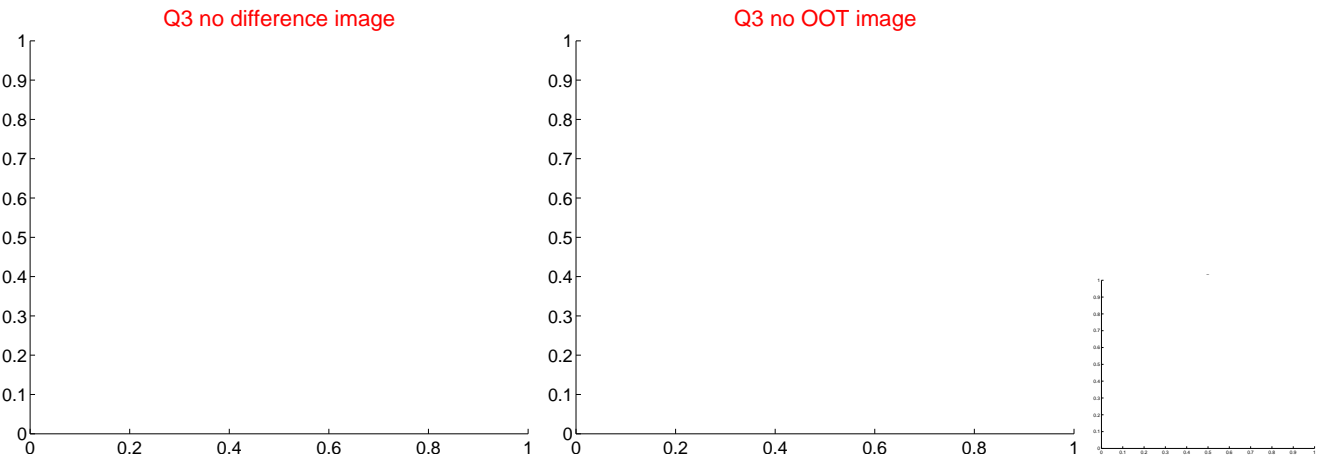
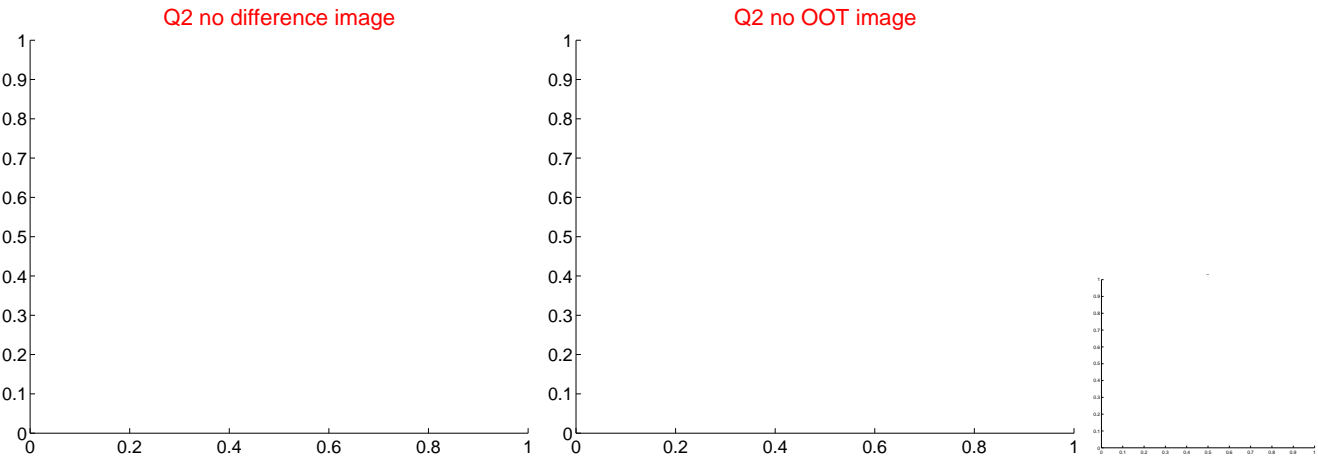
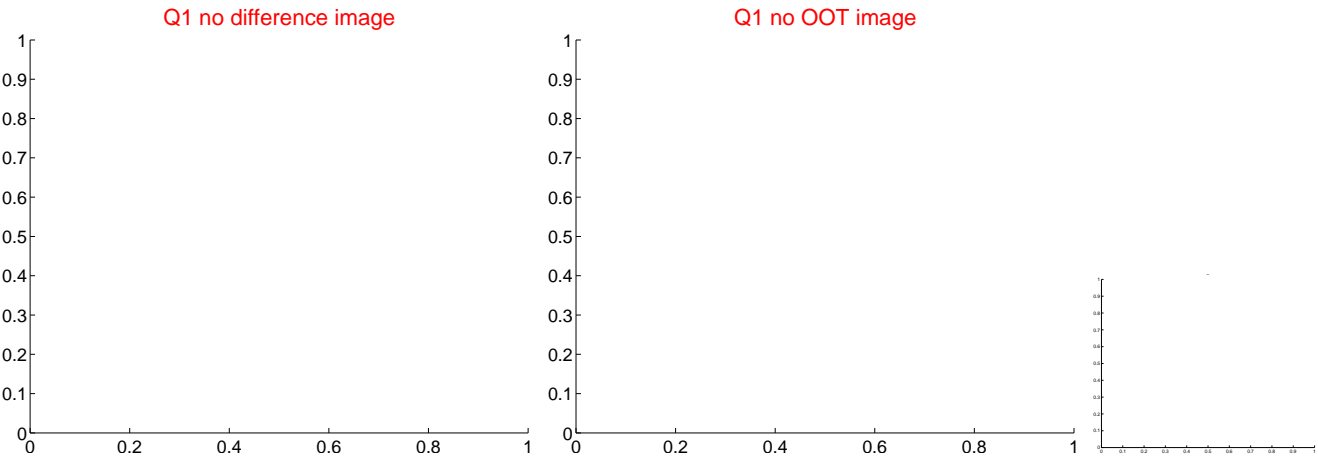
The direct PRF centroid is offset from the target star catalog position by about 0.64 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.952 ± 1.836	0.52	-0.862 ± 1.812	-0.404 ± 0.862
PRF-fit source offset from KIC position	0.818 ± 1.397	0.59	-0.773 ± 1.330	-0.266 ± 0.659
photometric centroid source offset	3.77 ± 2.19	1.72	3.54 ± 2.22	-1.28 ± 2.00

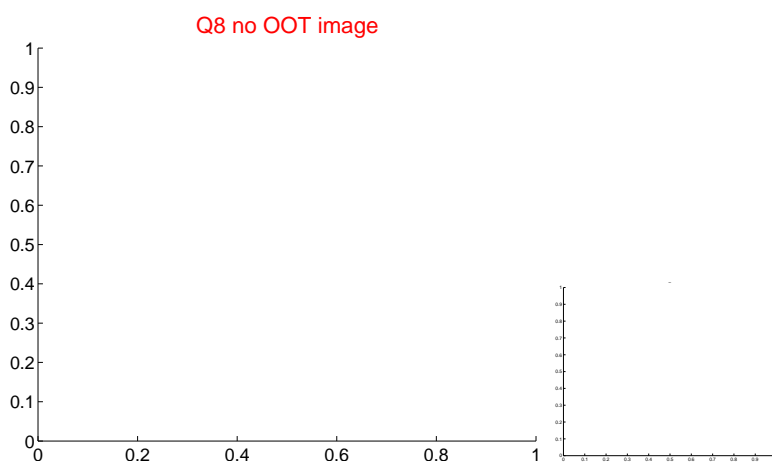
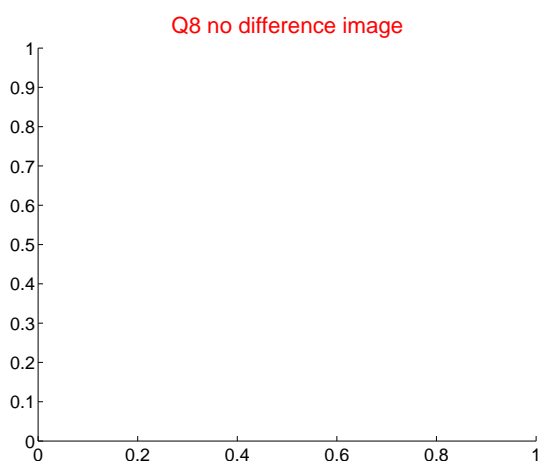
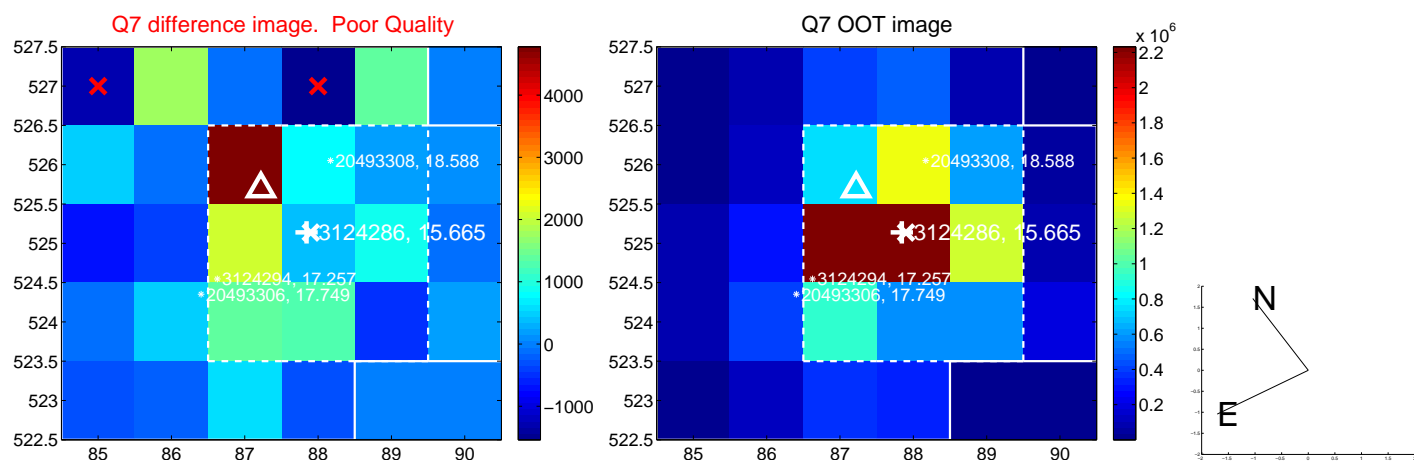
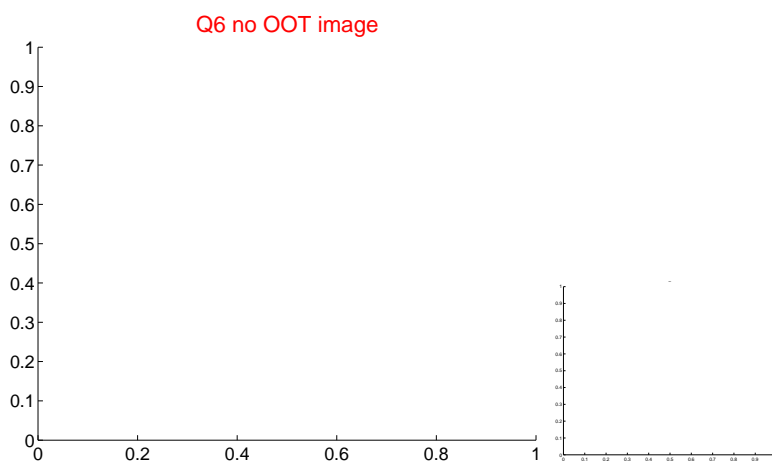
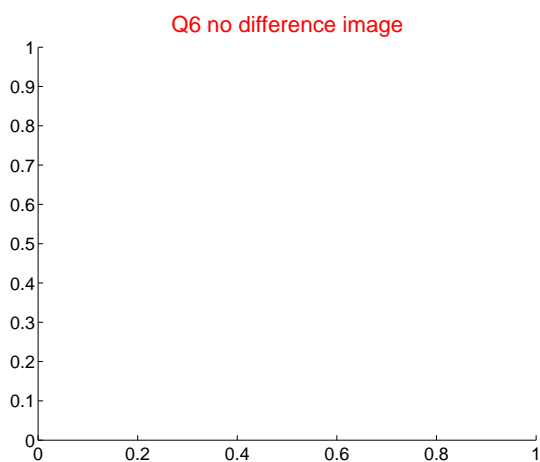
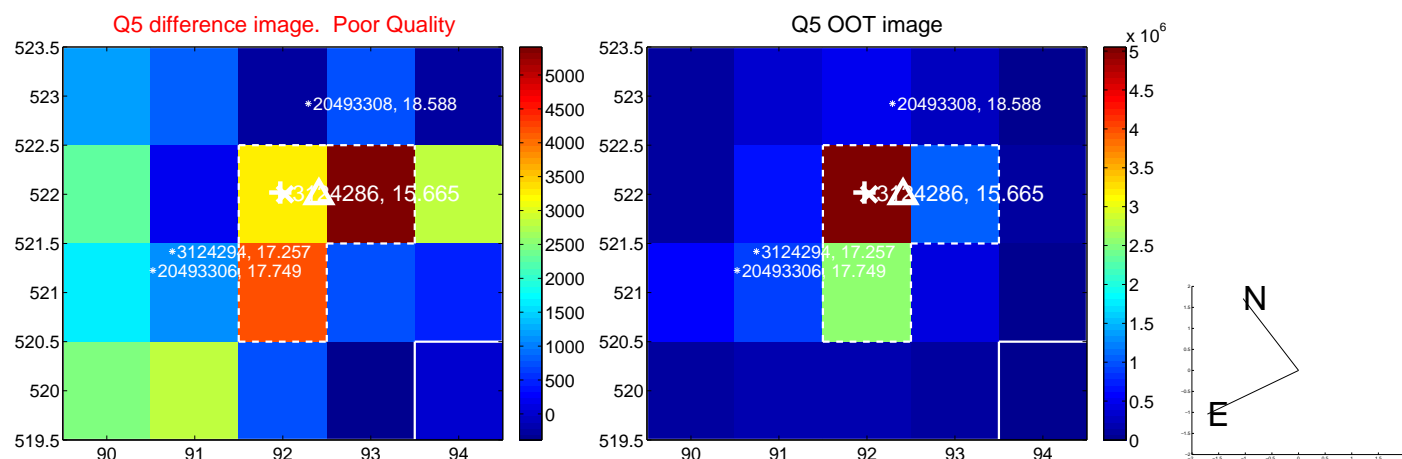


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

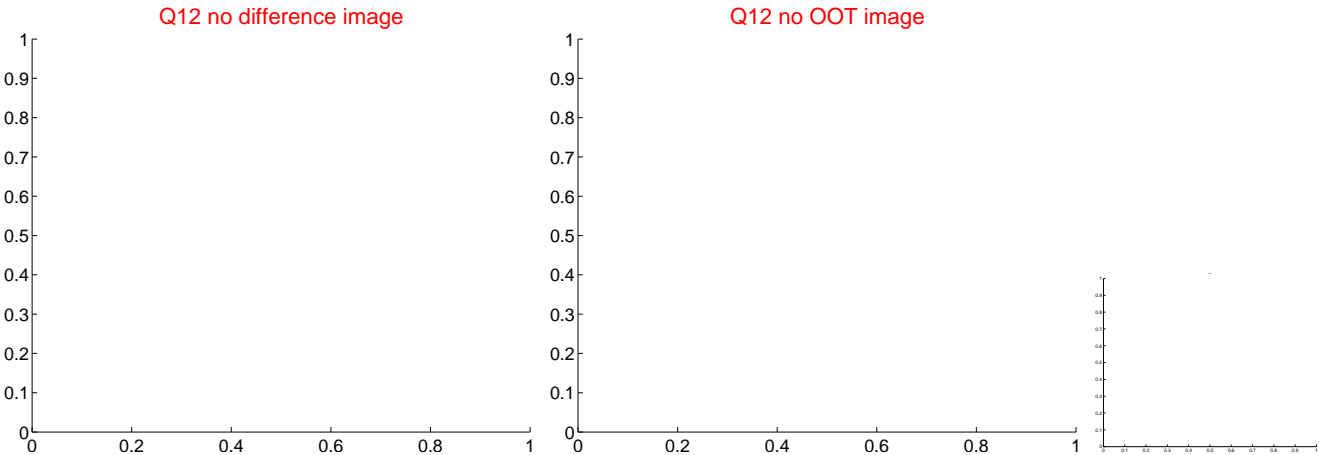
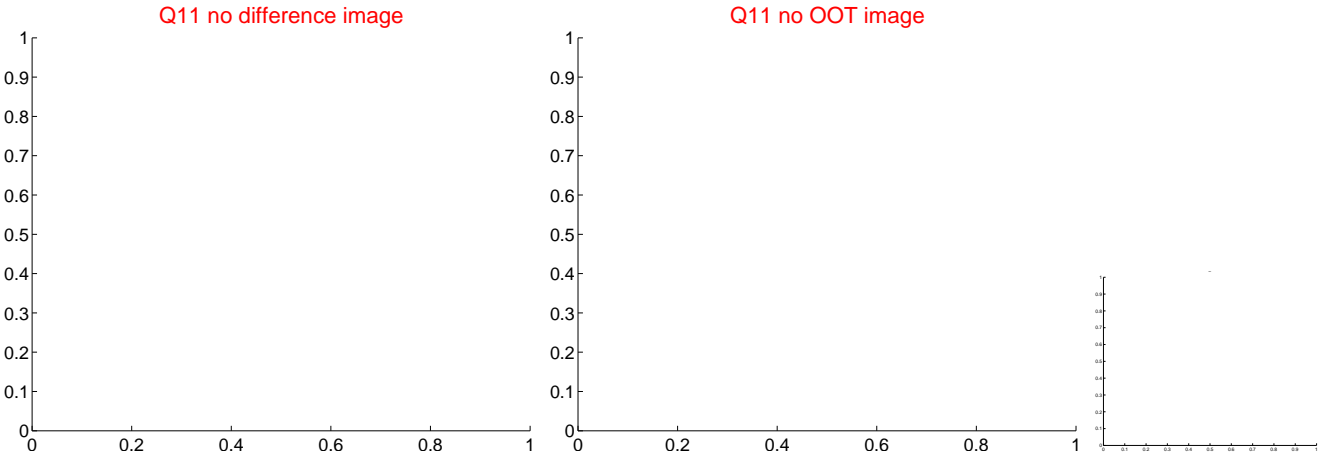
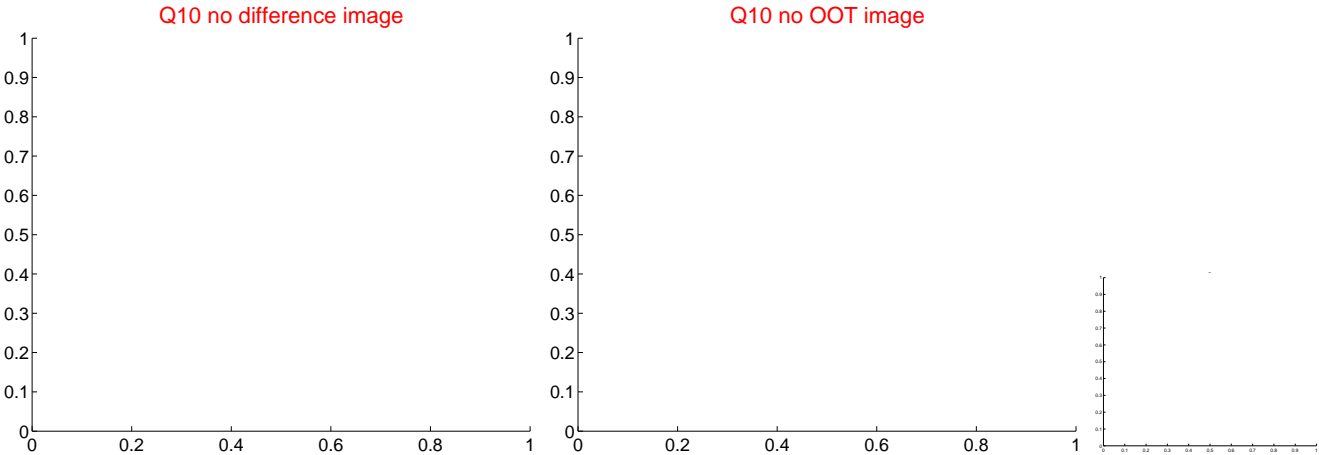
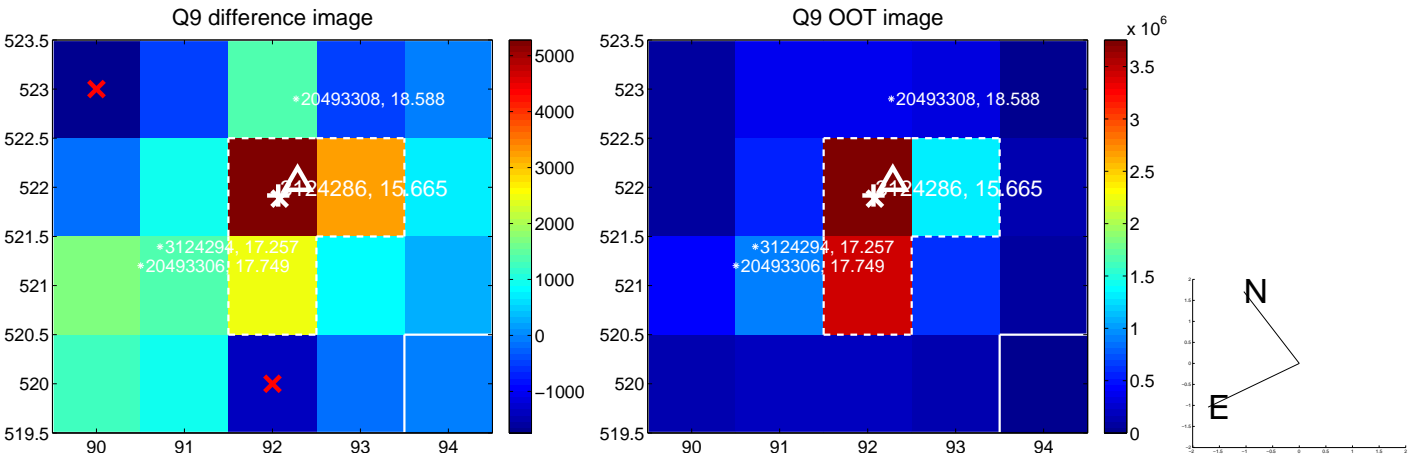
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



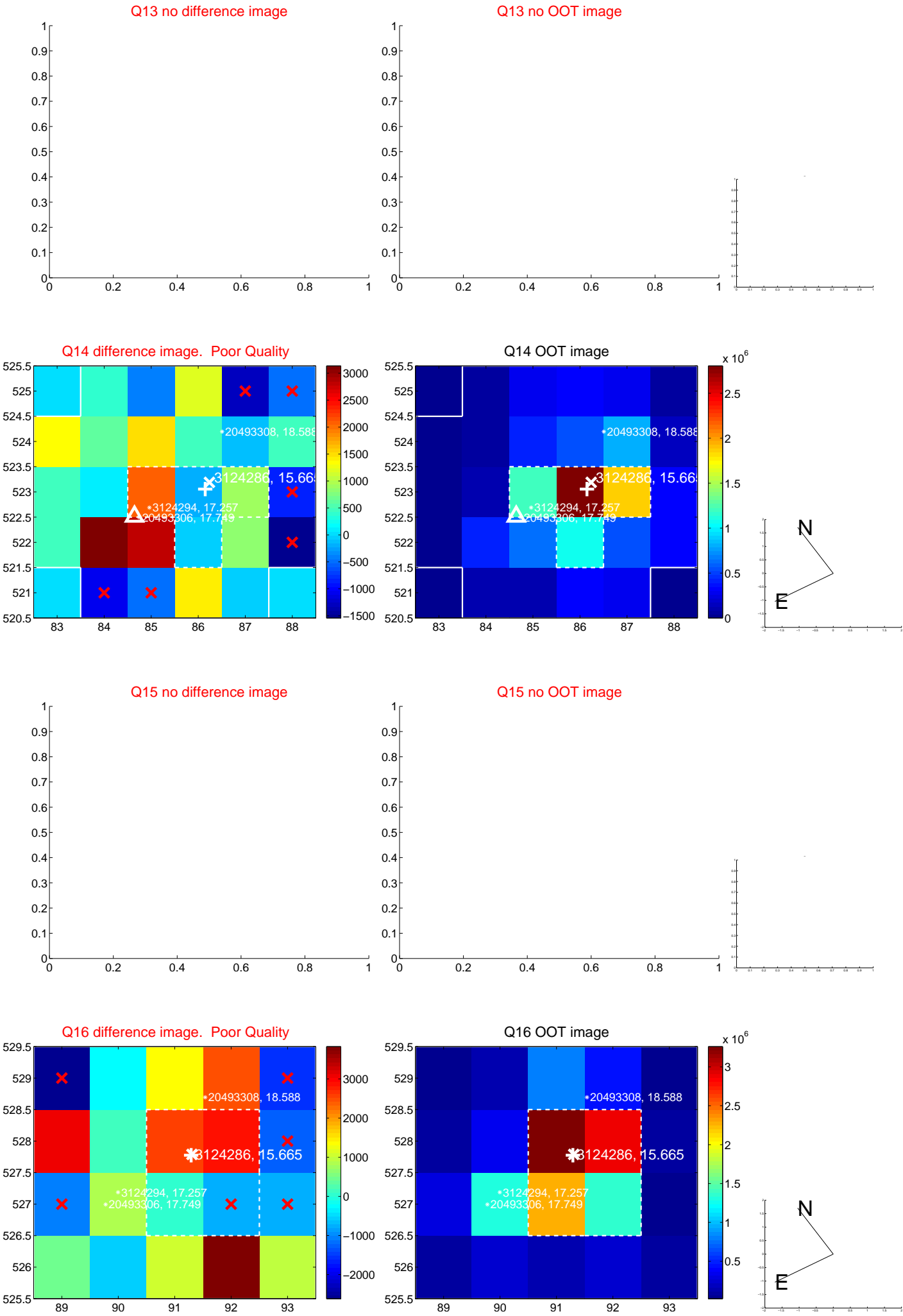
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



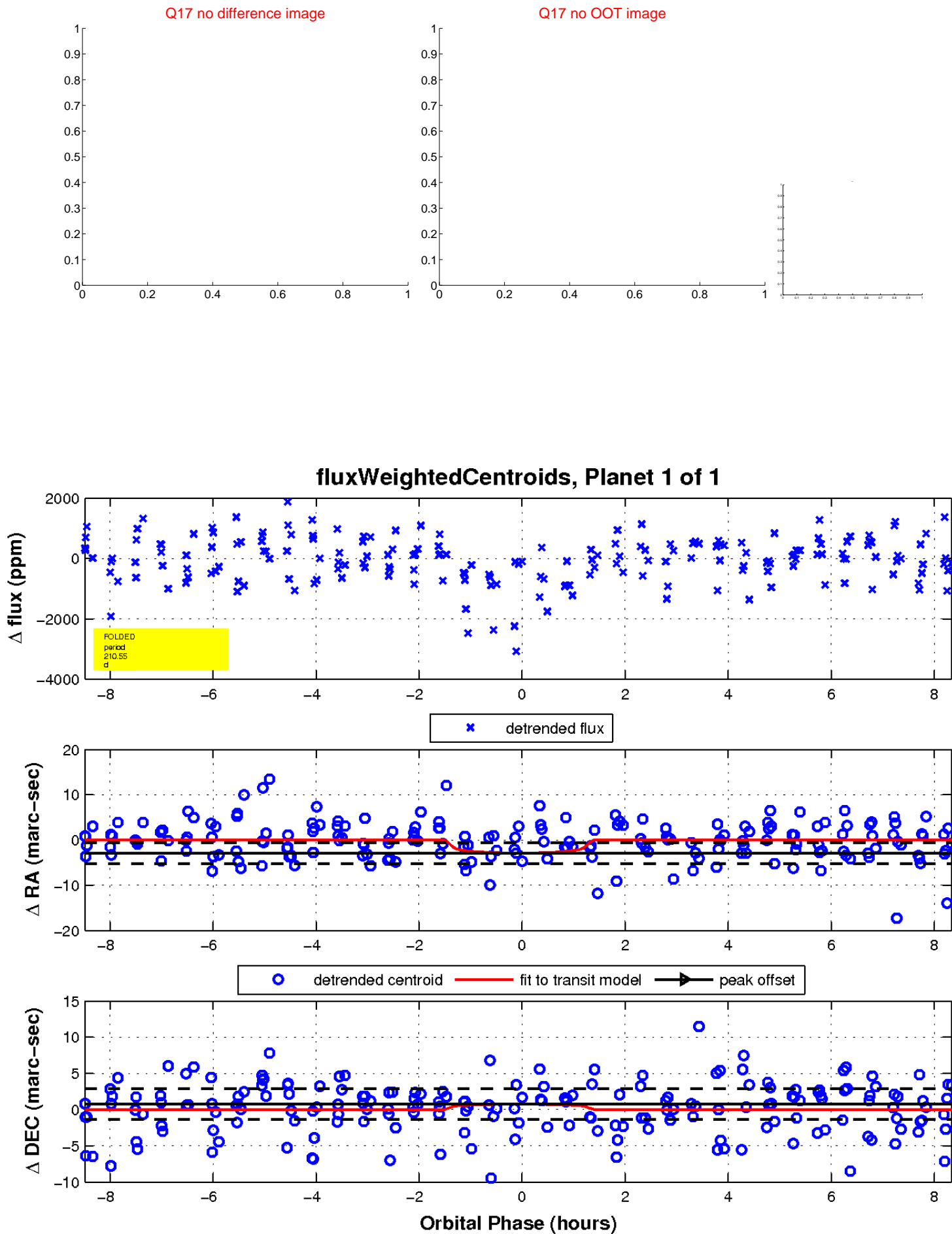
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

