

KIC 001292087

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})
001292087-01	OBS	No	1.094797	132.711748	0.0	5.458	8.5	0.0	1.50	6328	0.03	6781.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
001292087-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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

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

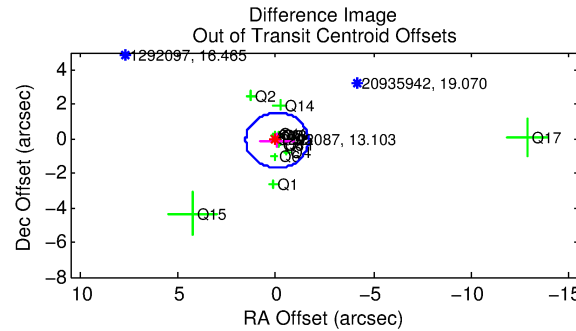
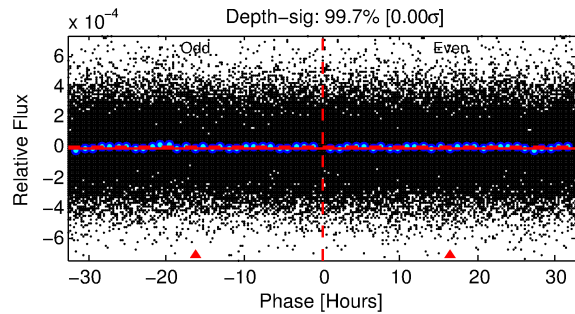
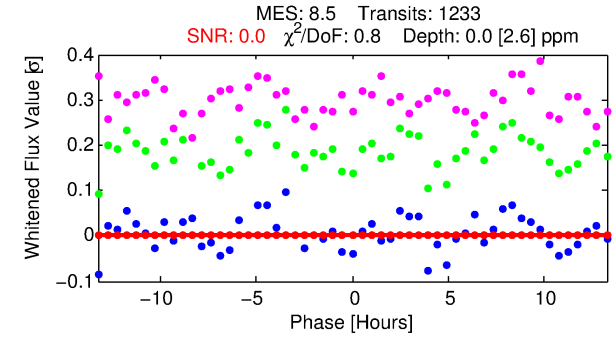
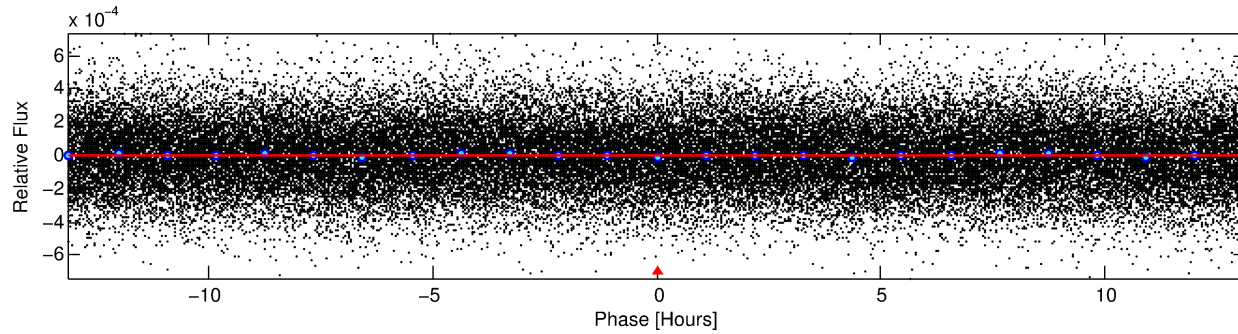
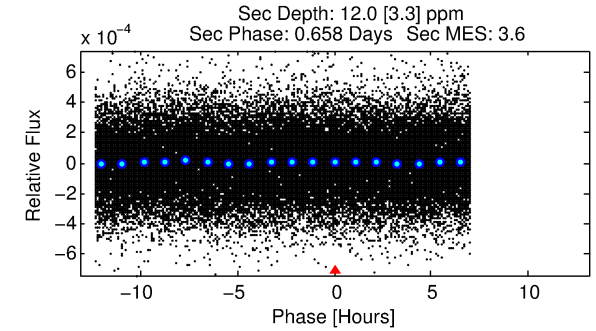
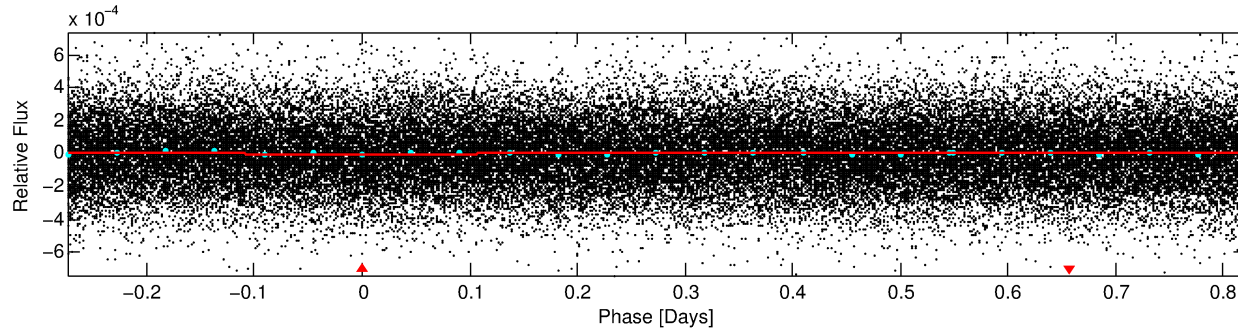
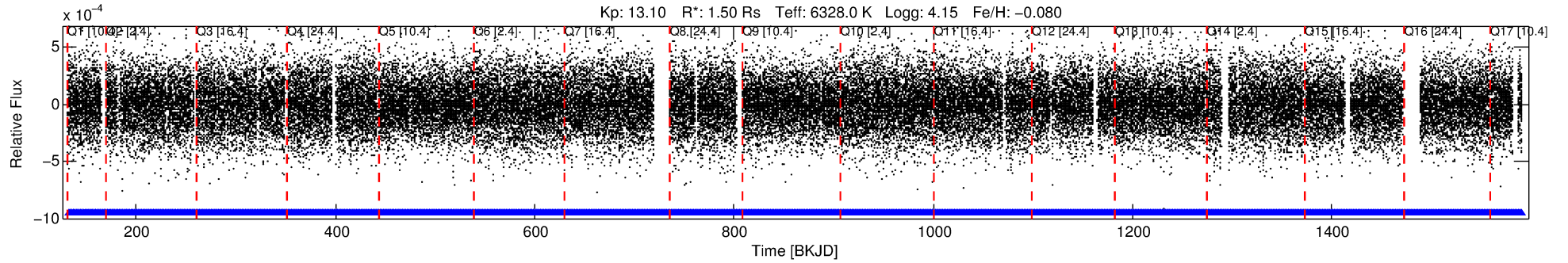
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 001292087-01

No Significant Match Found

DV One-Page Summary

KIC: 1292087 Candidate: 1 of 1 Period: 1.095 d



DV Fit Results:

Period = 1.09480 [0.00851] d
Epoch = 132.7117 [2.7318] BKJD
Rp/R* = 0.0002 [0.0065]
a/R* = 1.37 [12.40]
b = 0.70 [15.71]
Seff = 6781.02 [2815.62]
Teff = 2314 [240] K
Rp = 0.03 [1.06] Re
a = 0.0219 [0.0058] AU
Ag = 2951.08 [192037.71] [0.02σ]
Teffp = 26369 [428995] K [0.06σ]

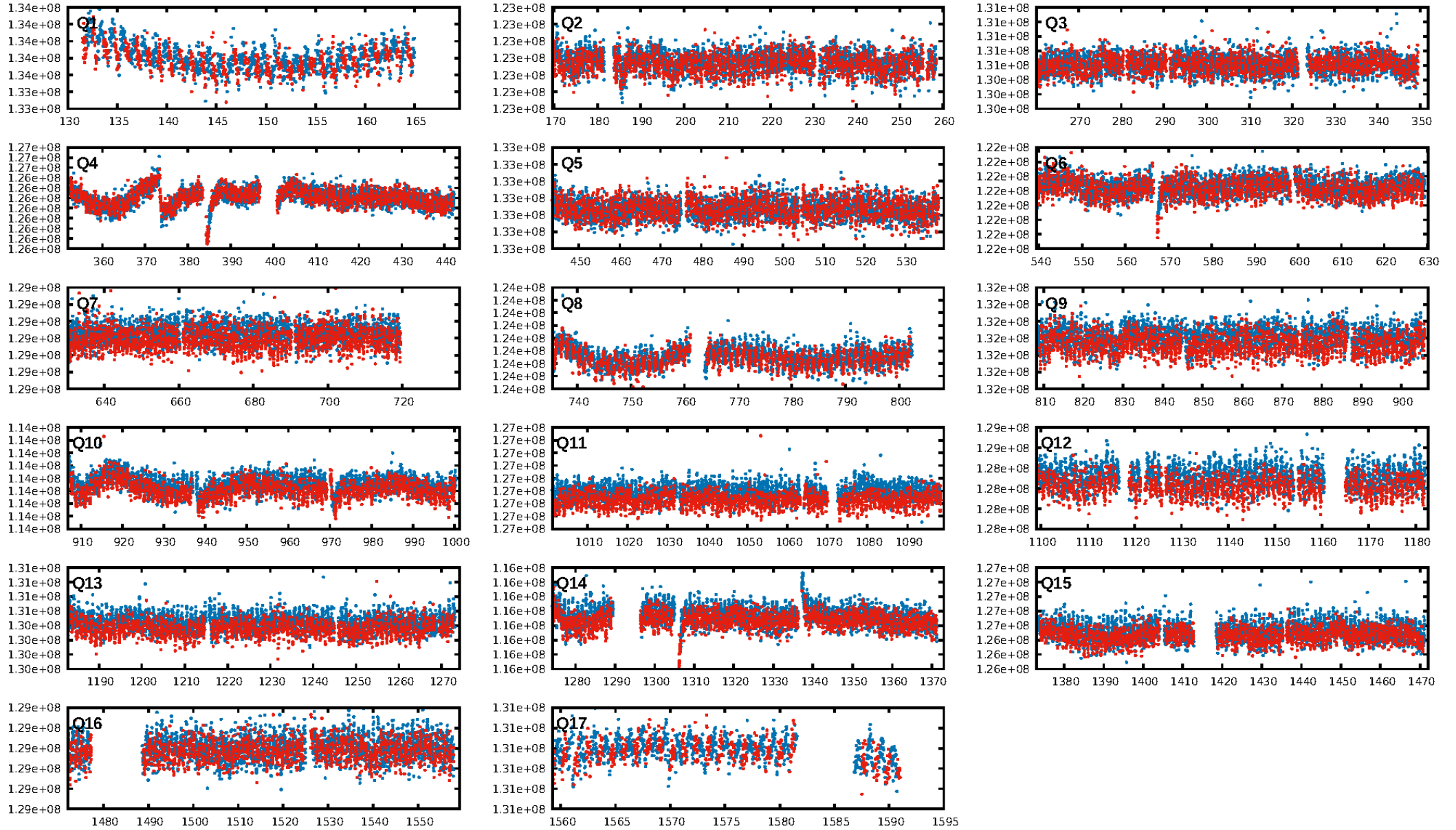
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.06e-12
RollingBand-fgt: 1.00 [1177/1177]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.119 arcsec [0.22σ]
KicOffset-rm: 0.073 arcsec [0.20σ]
OotOffset-st: 4/4/3/5 [16]
KicOffset-st: 4/4/3/5 [16]
DiffImageQuality-fgm: 0.56 [9/16]
DiffImageOverlap-fno: 1.00 [17/17]

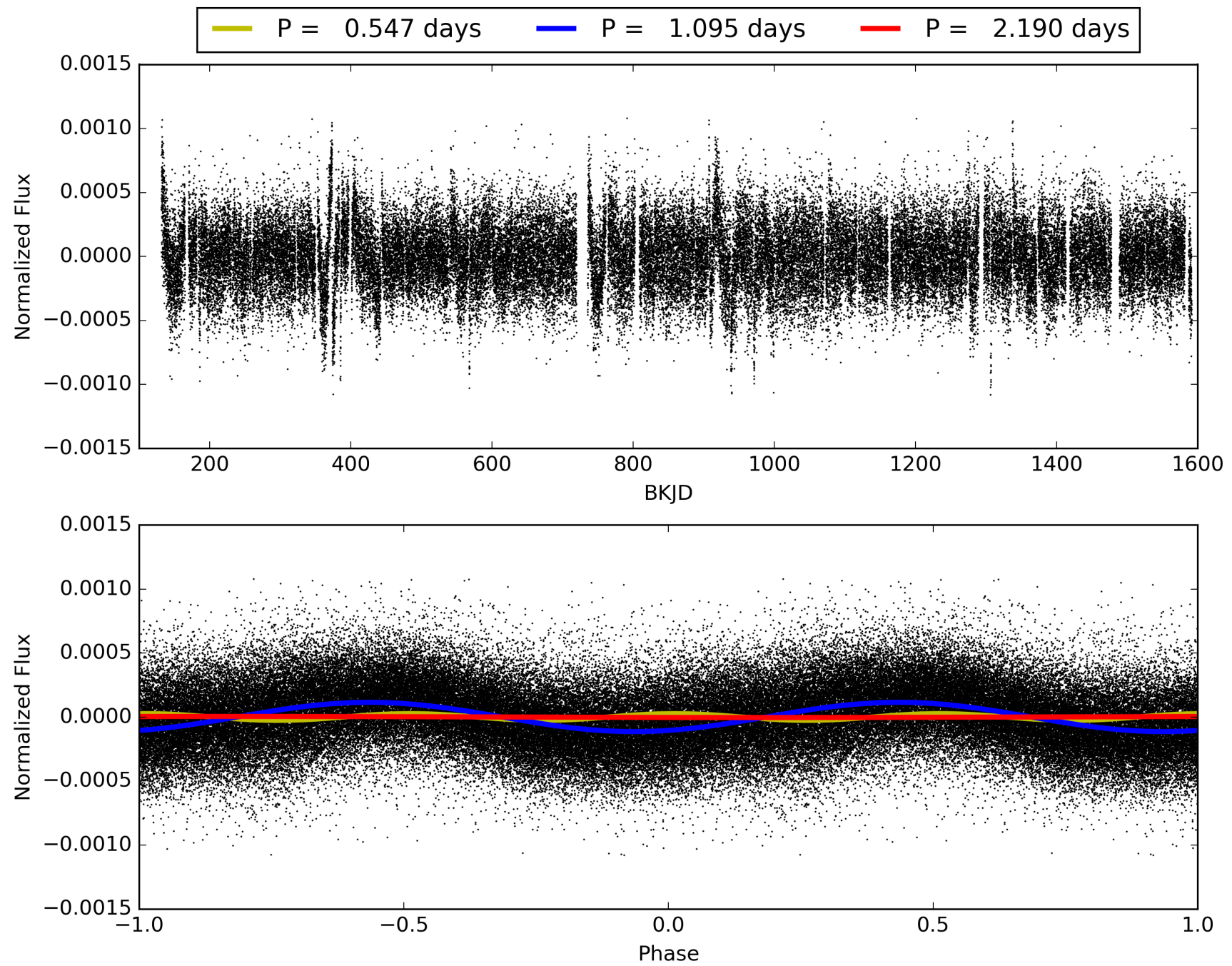
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 19:52:18 Z

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

TCE 001292087-01, PDC Light Curves

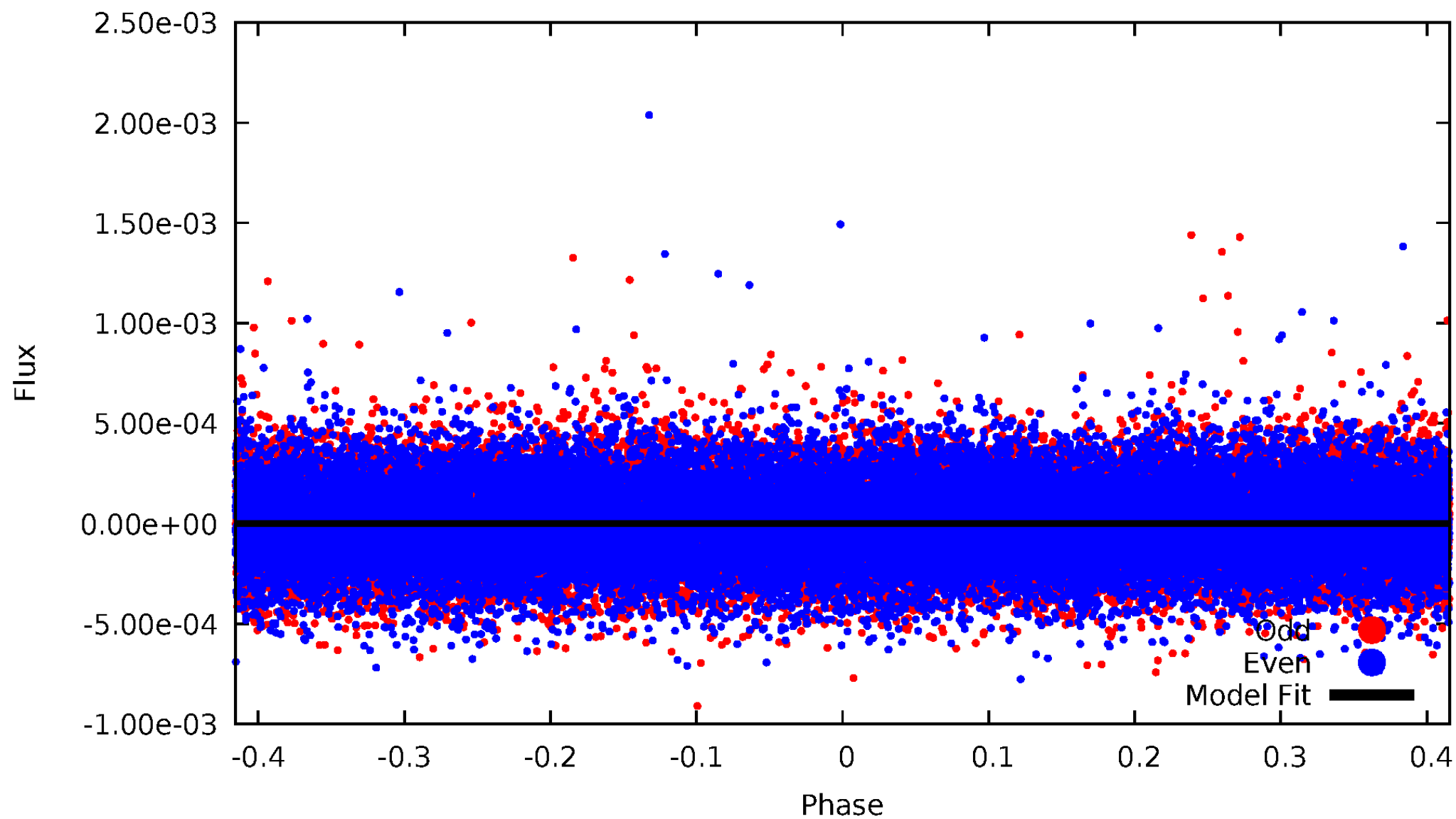


TCE 001292087-01



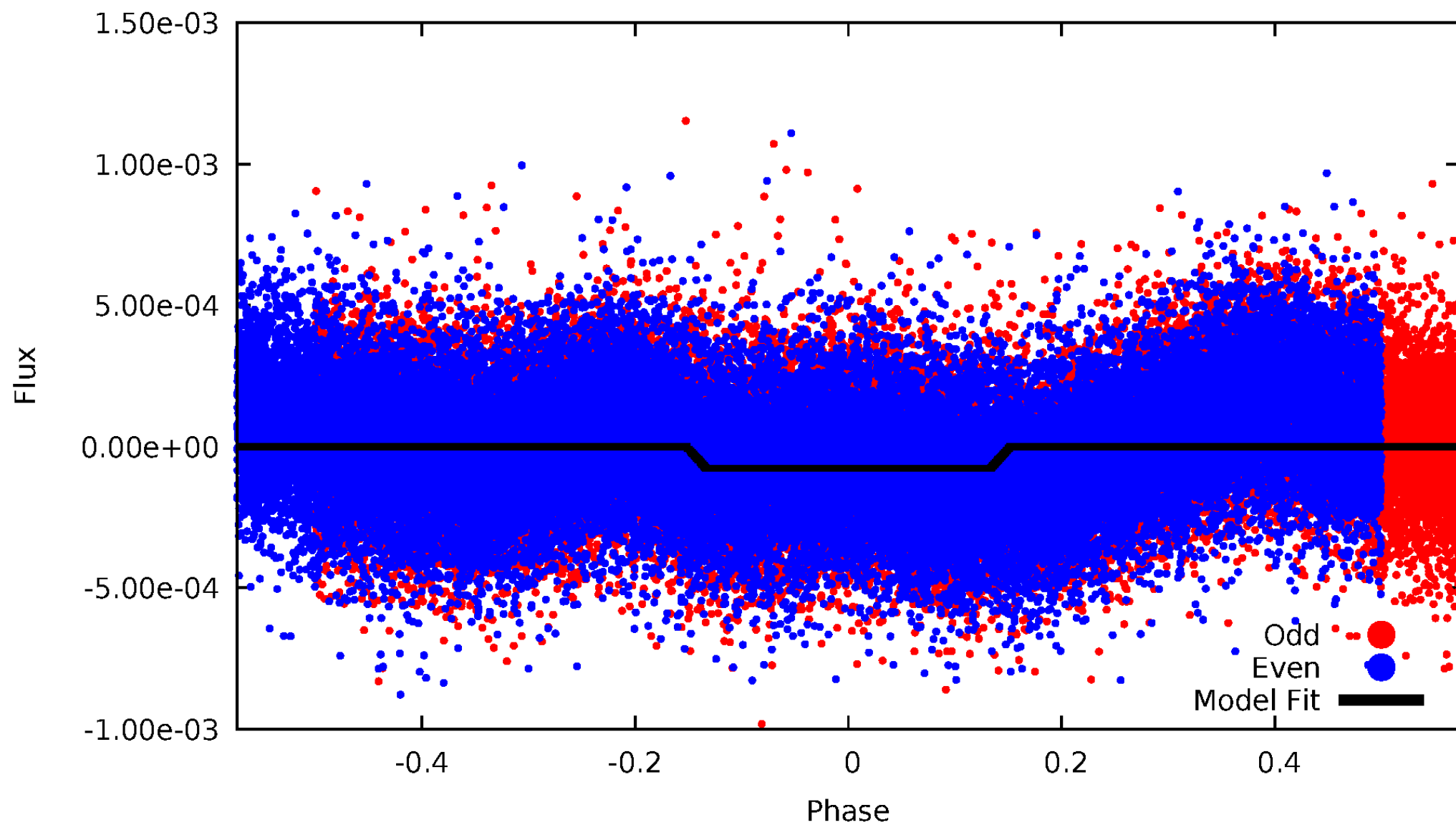
DV Odd/Even

TCE 001292087-01



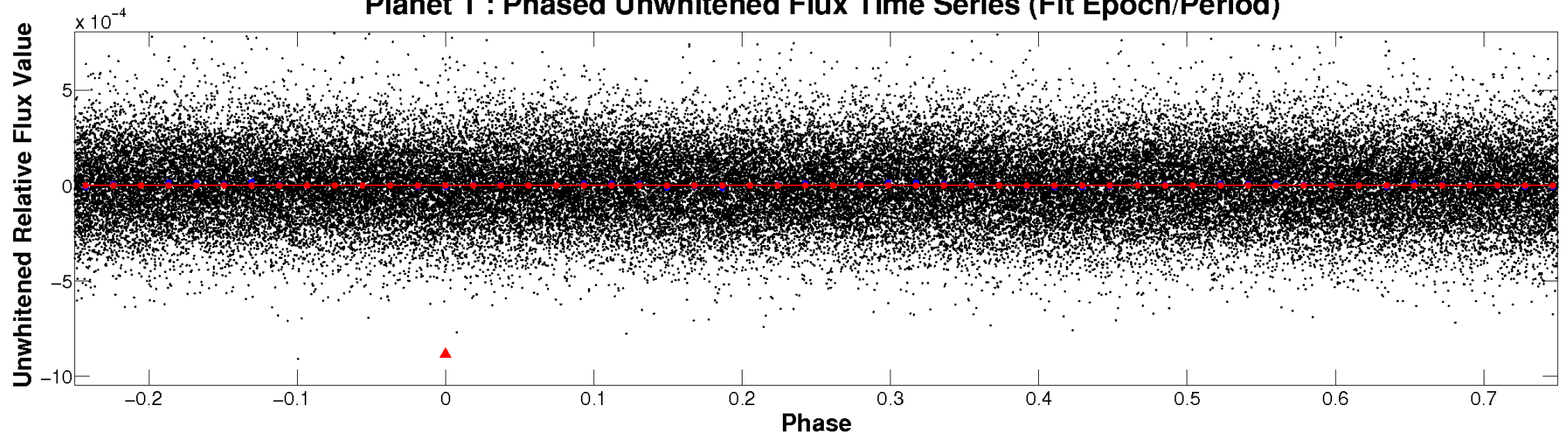
ALT Odd/Even

TCE 001292087-01

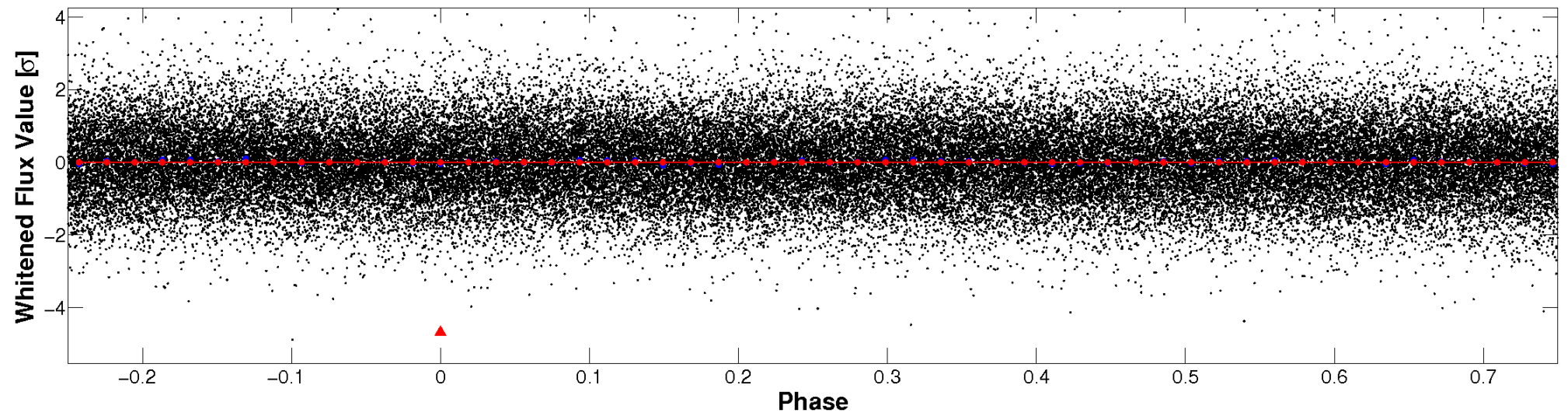


Non-Whitened Vs. Whitened Light Curve

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

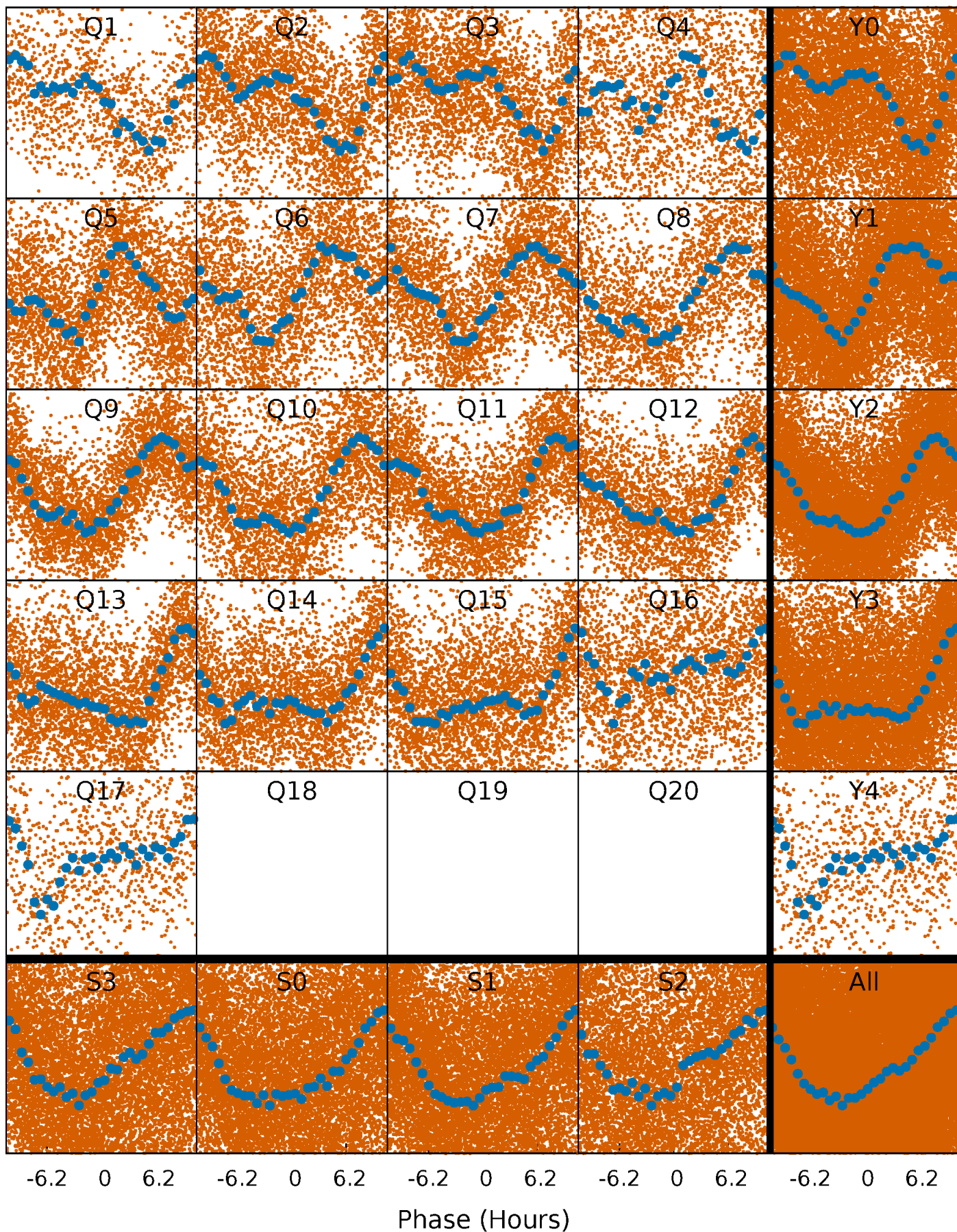


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



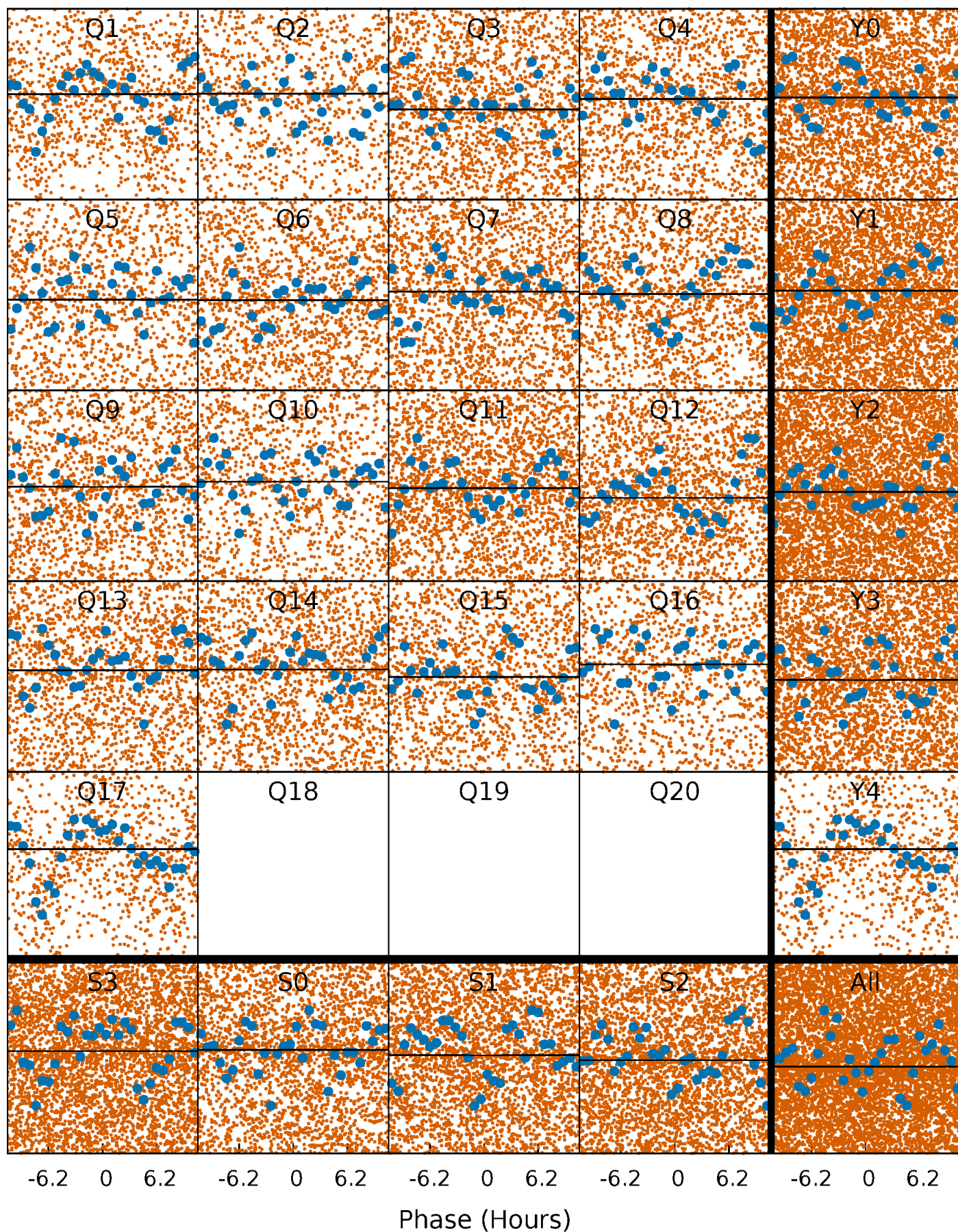
PDC Quarter-Phased Transit Curves

TCE 001292087-01 P= 1.094797 Days $T_0=132.711748$ (BKJD)



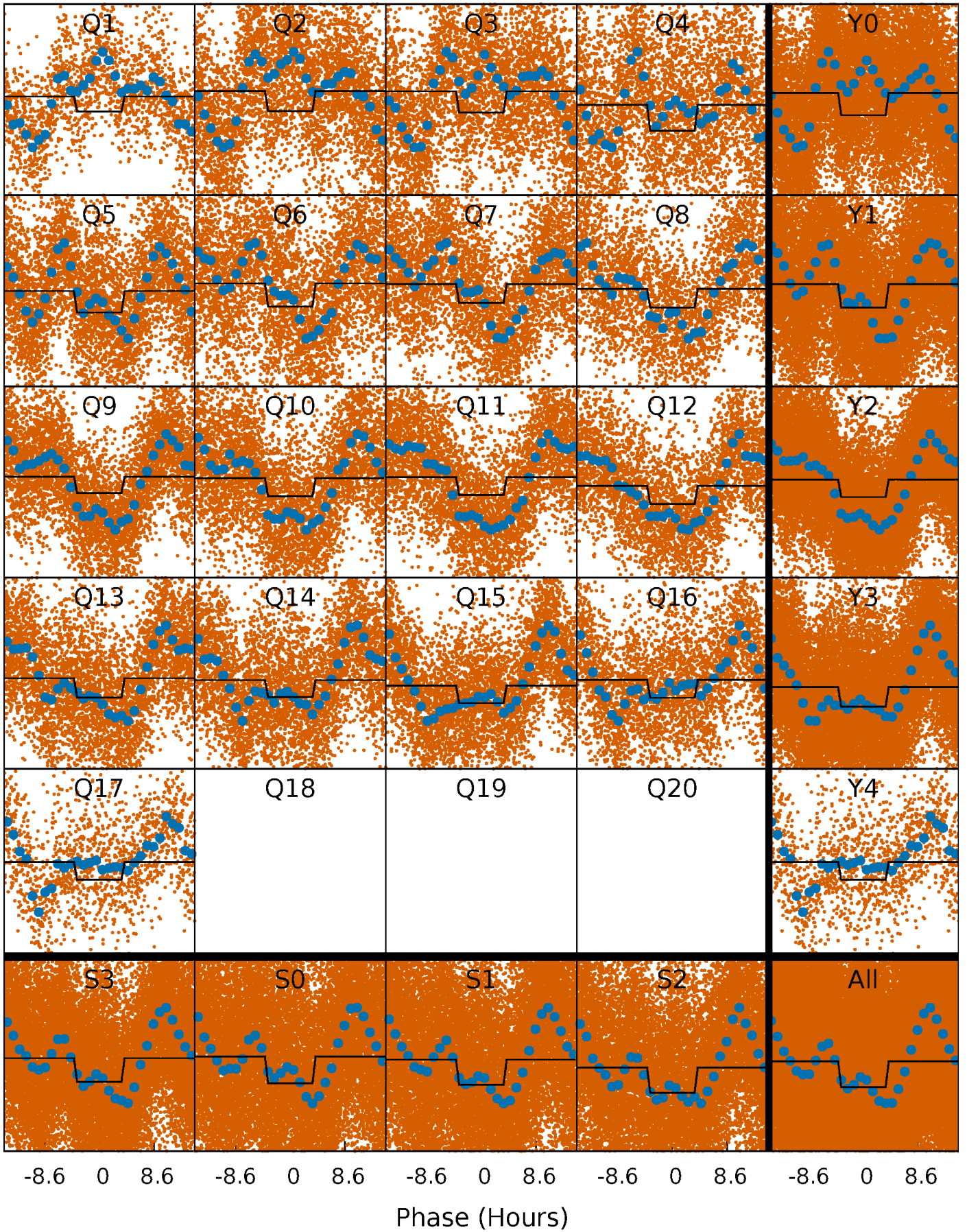
DV Quarter-Phased Transit Curves

TCE 001292087-01 P= 1.094797 Days $T_0=132.711748$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

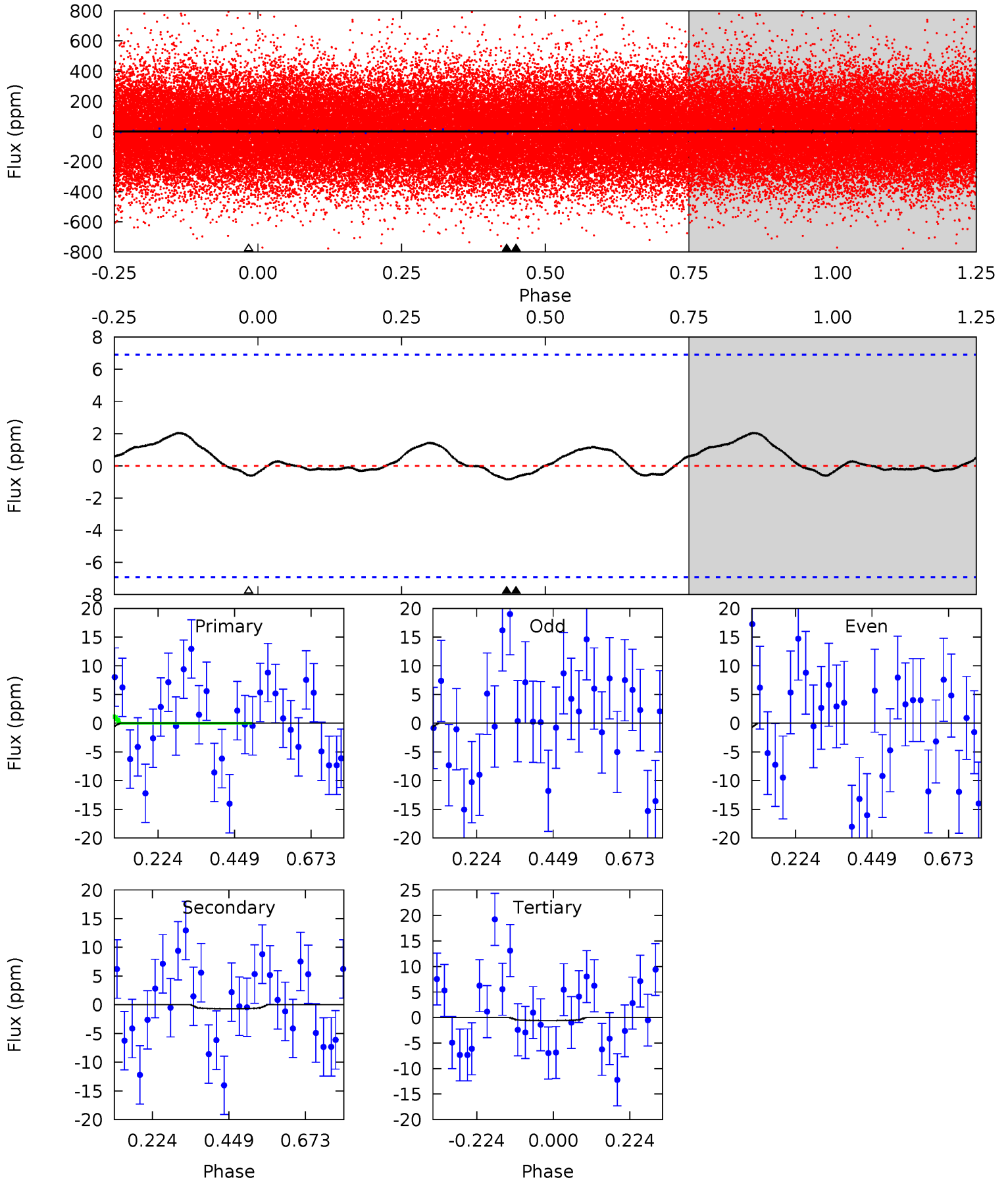
TCE 001292087-01 P= 1.095223 Days $T_0=132.264597$ (BKJD)



DV Model-Shift Uniqueness Test

001292087-01, P = 1.094797 Days, E = 130.522154 Days

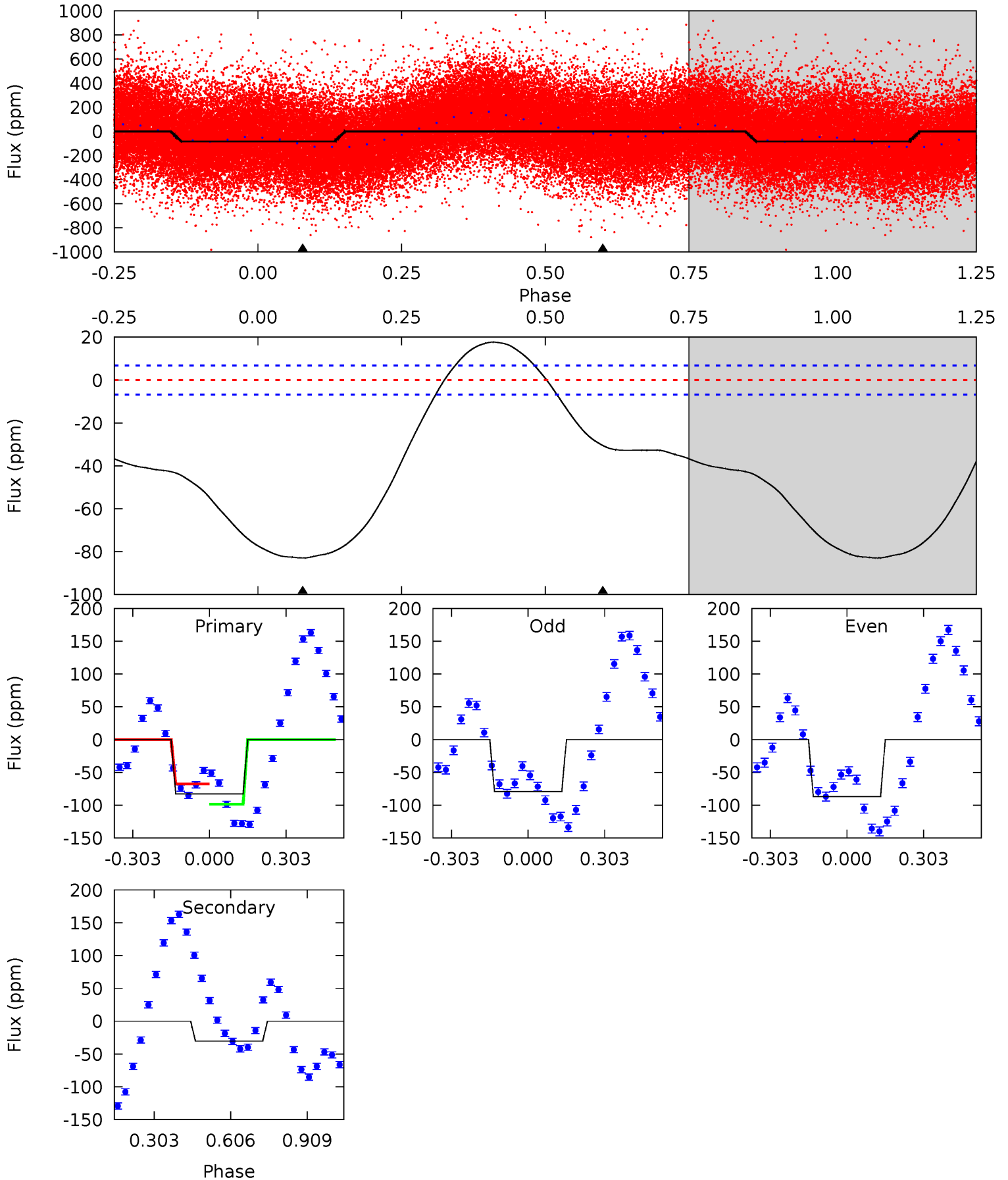
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.54	0.45	0.38	0	4.39	1.22	0.49	0.16	0.54	0.07	0.45	0.08	-0.29	0.71	0.72



Alt Model-Shift Uniqueness Test

001292087-01, P = 1.095223 Days, E = 131.169374 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
53.0	19.5	0	0	4.33	1.03	14.0	53.0	53.0	19.5	19.5	2.45	0.93	0.18	10.7



Stellar Parameters For KIC 001292087

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6328^{+151}_{-208}	$4.150^{+0.220}_{-0.180}$	$-0.080^{+0.250}_{-0.300}$	$1.502^{+0.456}_{-0.373}$	$1.162^{+0.194}_{-0.159}$	$0.483^{+0.585}_{-0.230}$
	+2%/-3%	+5%/-4%	+312%/-375%	+30%/-25%	+17%/-14%	+121%/-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 001292087-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1 ± 2	$0.70^{+0.78}_{-0.51}$	3208^{+252}_{-236}	-2719^{+7592}_{-1022}	$0.212^{+3.741}_{-0.662}$
Alt.	-30 ± 2	$1.53^{+1.10}_{-0.92}$	3220^{+240}_{-237}	4818^{+2825}_{-940}	$3.387^{+19.429}_{-2.188}$

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

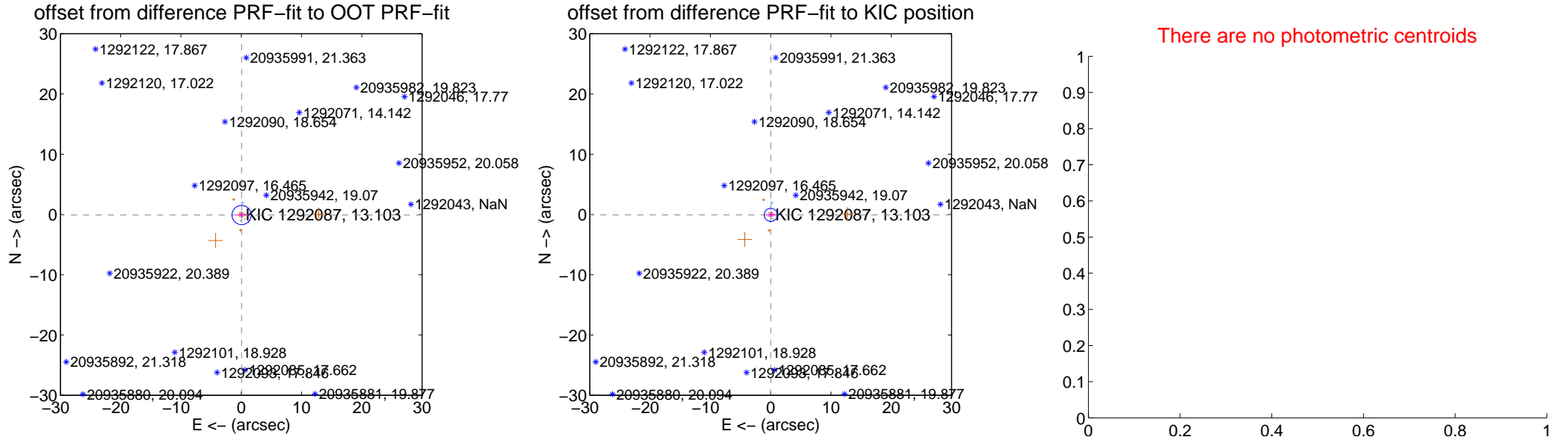
DV Centroid Data

Supplemental centroid analysis for 001292087-01. Kepler magnitude: 13.10. Transit SNR 0.02

There are 9 quarters with good PRF difference image offsets

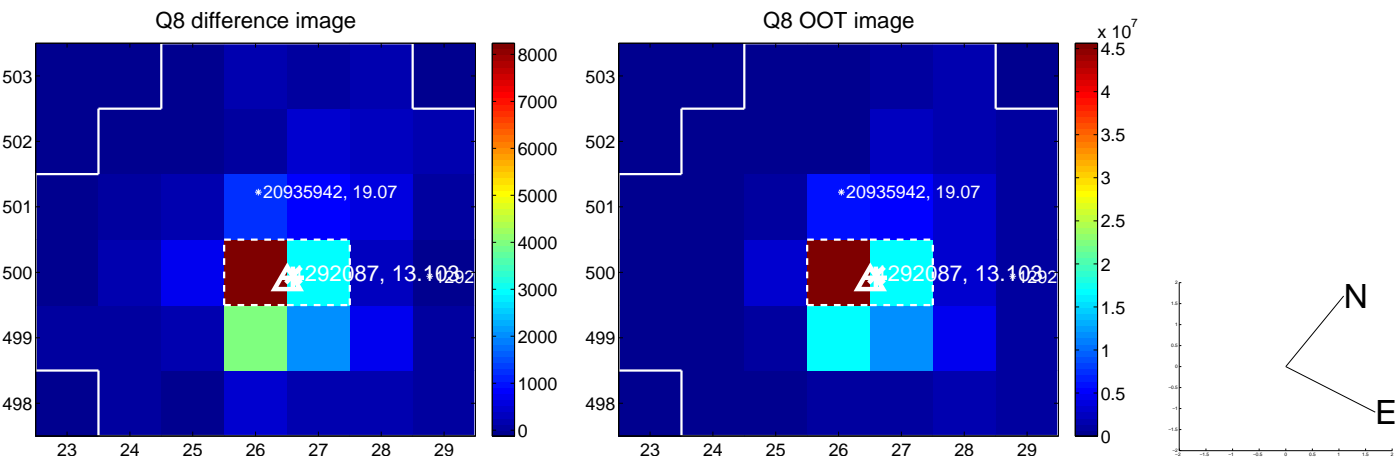
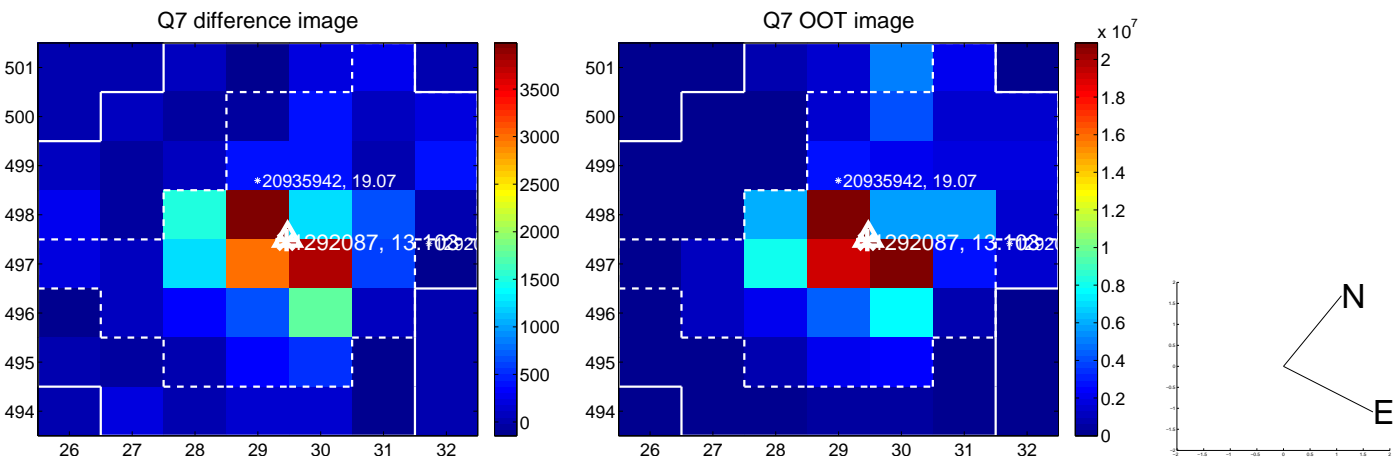
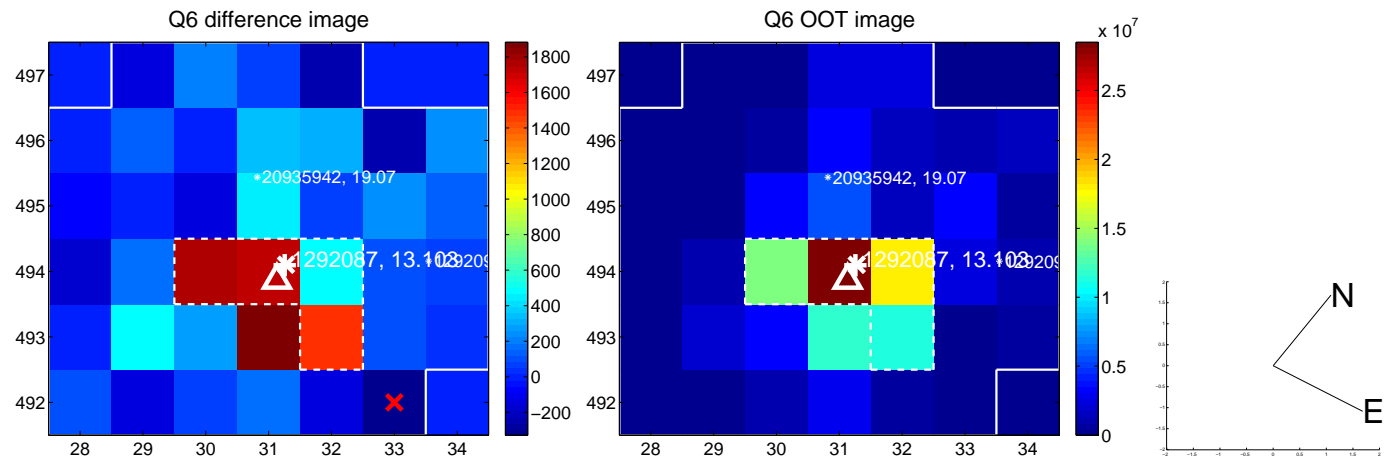
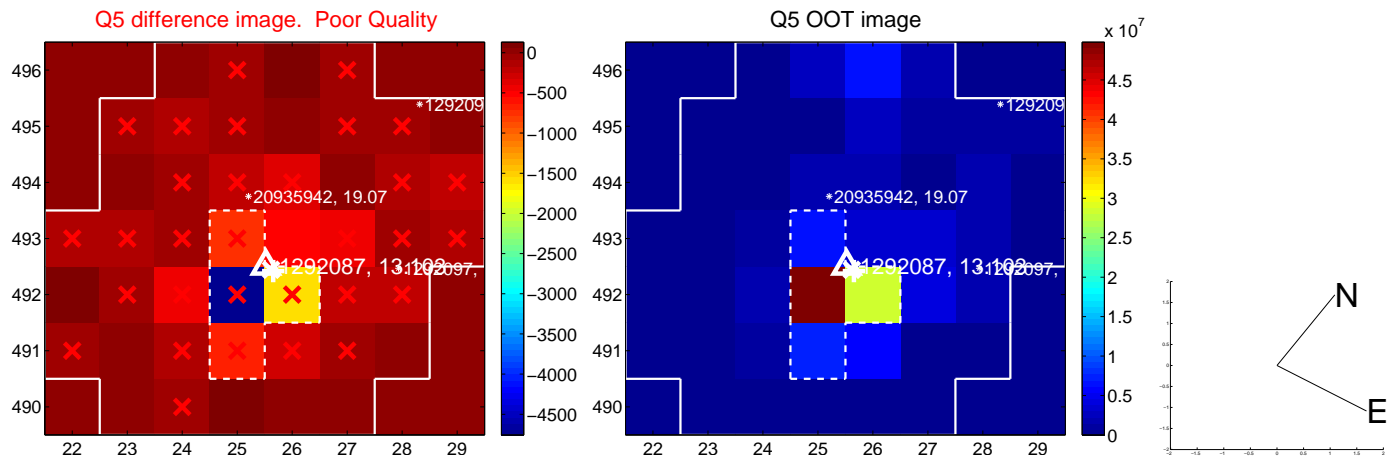
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.119 ± 0.531	0.22	-0.069 ± 0.871	-0.097 ± 0.371
PRF-fit source offset from KIC position	0.073 ± 0.363	0.20	-0.013 ± 0.860	-0.072 ± 0.361
photometric centroid source offset	—	—	—	—

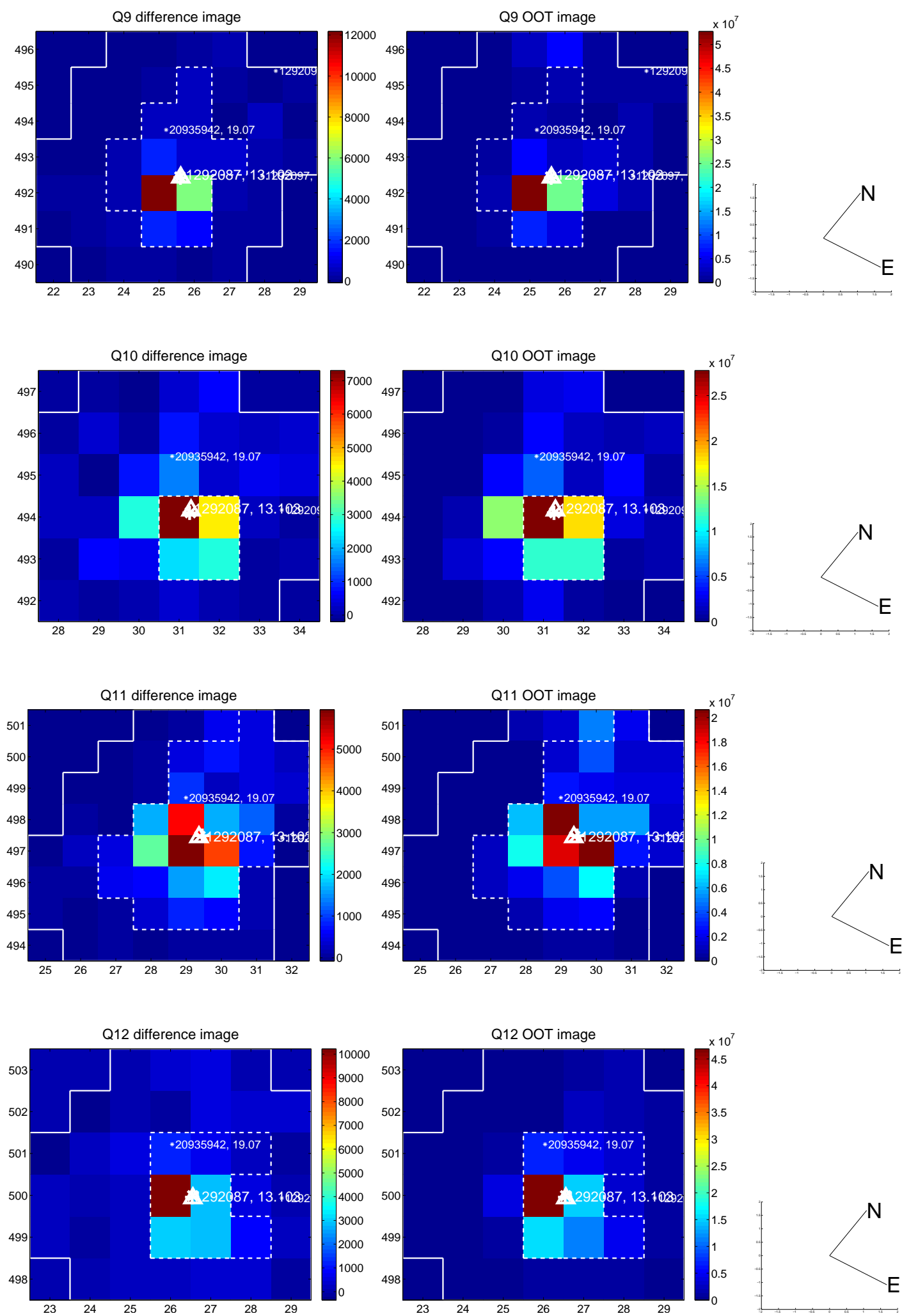


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

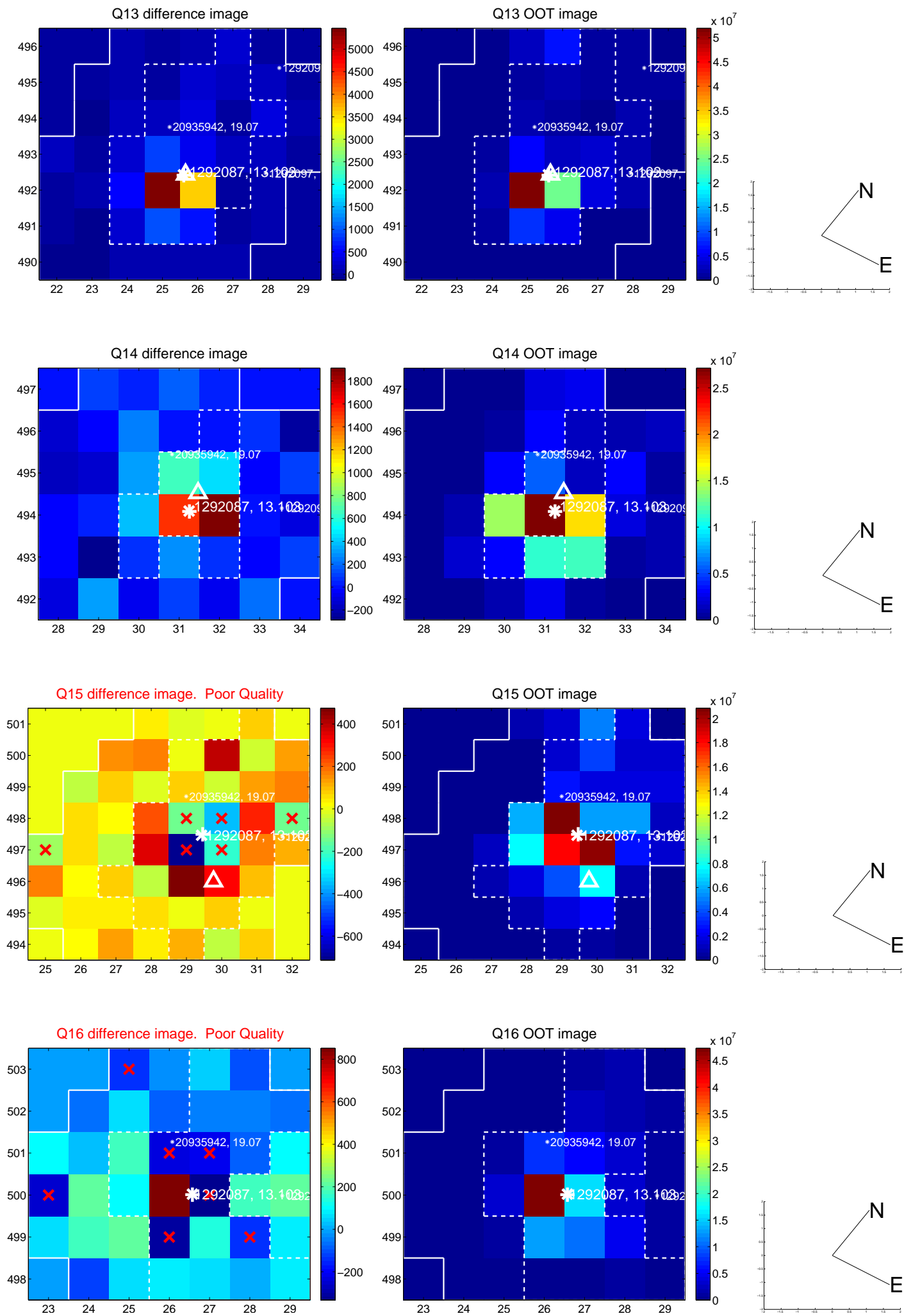
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



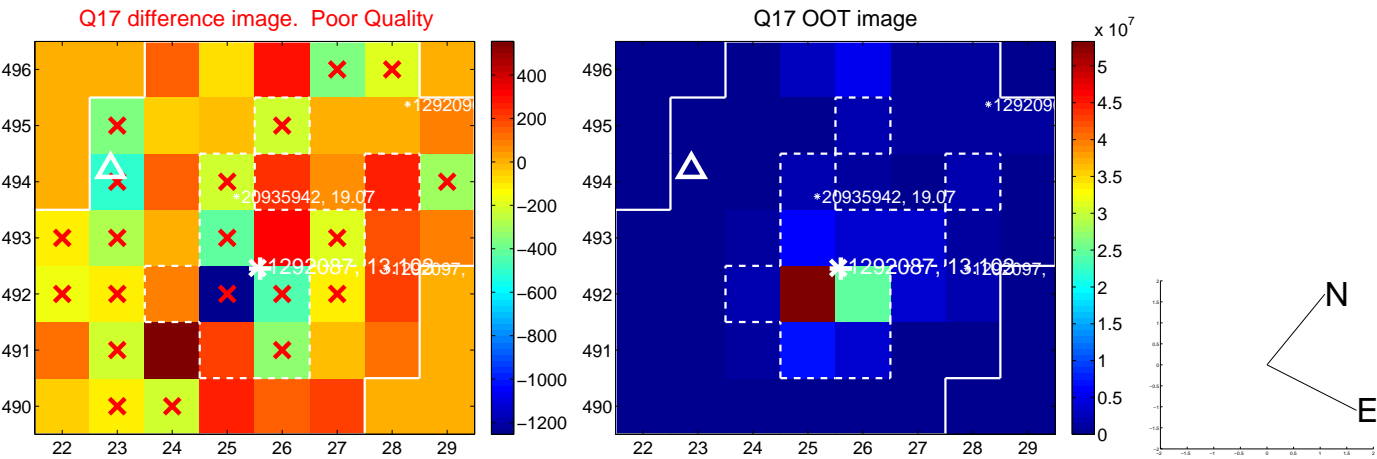
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



folded centroid time series figure for this object.

UKIRT Image

Declination

