

KIC 008264526

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})
008264526-01	OBS	No	5.687027	135.640547	46.5	10.721	12.5	11.7	2.53	7935	2.04	3803.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264526-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—CENT_RESOLVED_OFFSET

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

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

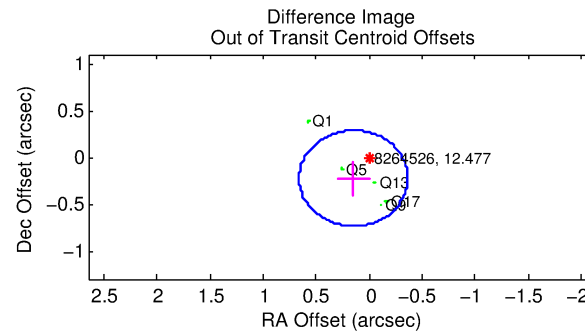
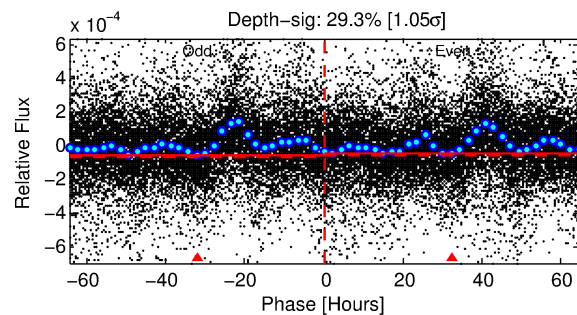
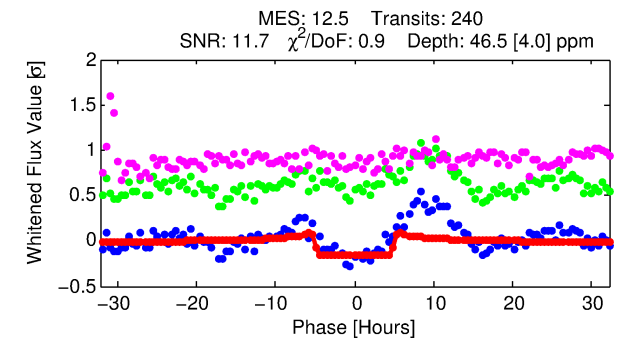
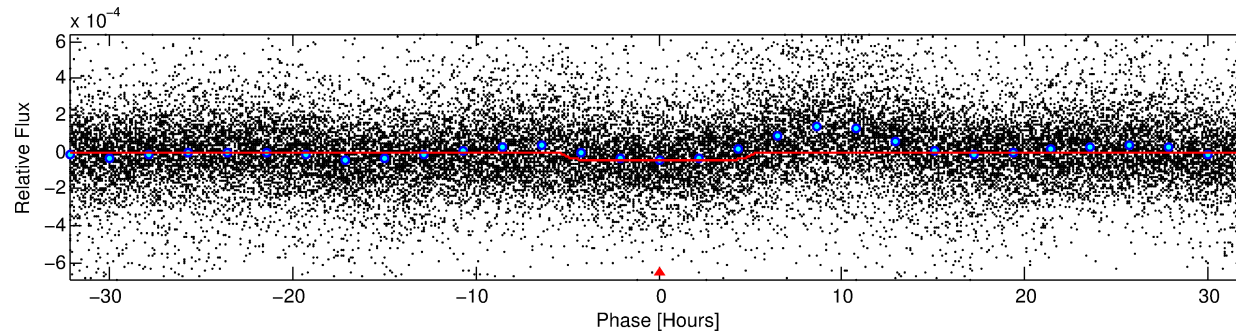
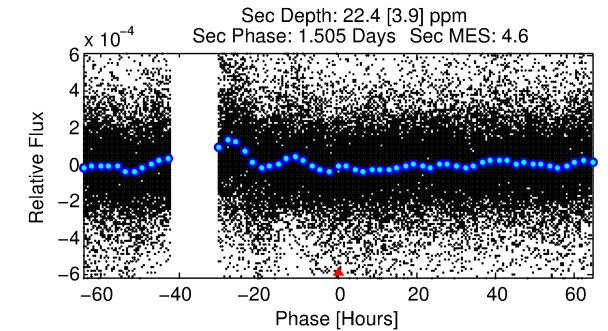
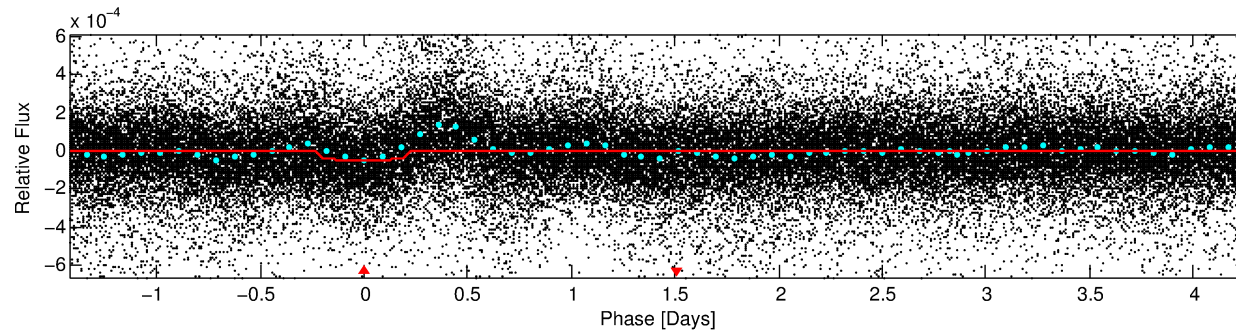
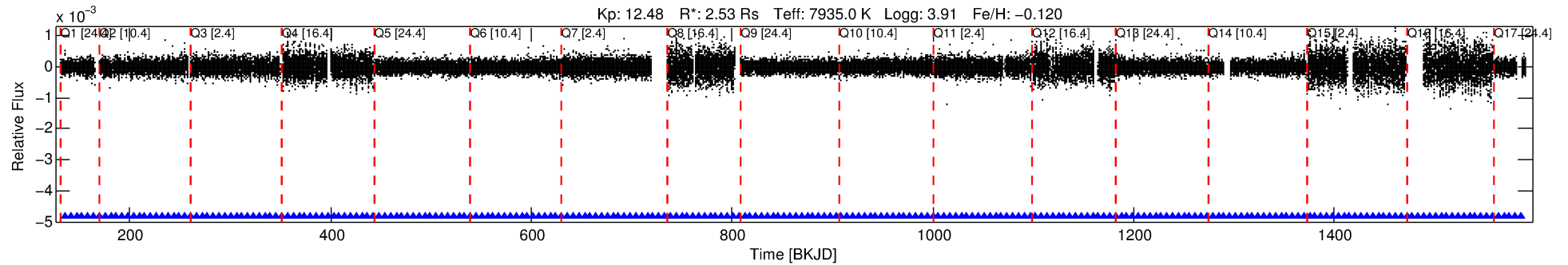
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264526-01

No Significant Match Found

DV One-Page Summary

KIC: 8264526 Candidate: 1 of 1 Period: 5.687 d



DV Fit Results:

Period = 5.68703 [0.00006] d
Epoch = 135.6405 [0.0074] BKJD
Rp/R* = 0.0074 [0.0007]
a/R* = 1.88 [0.67]
b = 0.92 [0.08]
Seff = 3803.56 [2113.02]
Teq = 2003 [278] K
Rp = 2.04 [0.82] Re
a = 0.0772 [0.0268] AU
Ag = 17.56 [10.27] [1.61σ]
Teffp = 6338 [482] K [7.79σ]

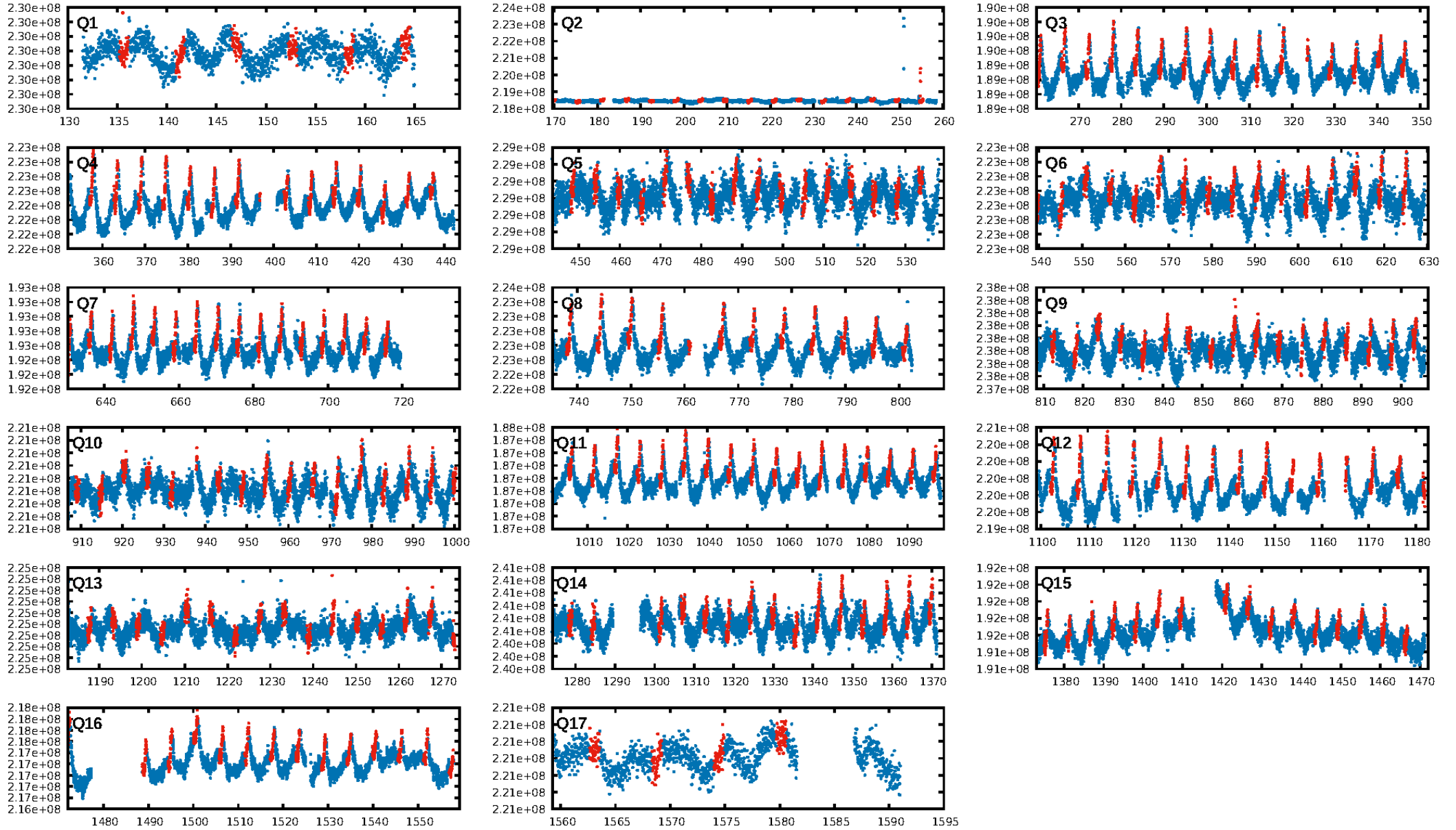
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.47e-30
RollingBand-fgt: 1.00 [230/230]
GhostDiagnostic-chr: -0.823
Centroid-sig: 0.0%
Centroid-so: 11.127 arcsec [7.94σ]
OotOffset-rm: 0.270 arcsec [1.58σ]
KicOffset-rm: 8.219 arcsec [37.14σ]
OotOffset-st: 0/0/0/5 [5]
KicOffset-st: 1/0/0/5 [6]
DiffImageQuality-fgm: 1.00 [6/6]
DiffImageOverlap-fno: 1.00 [17/17]

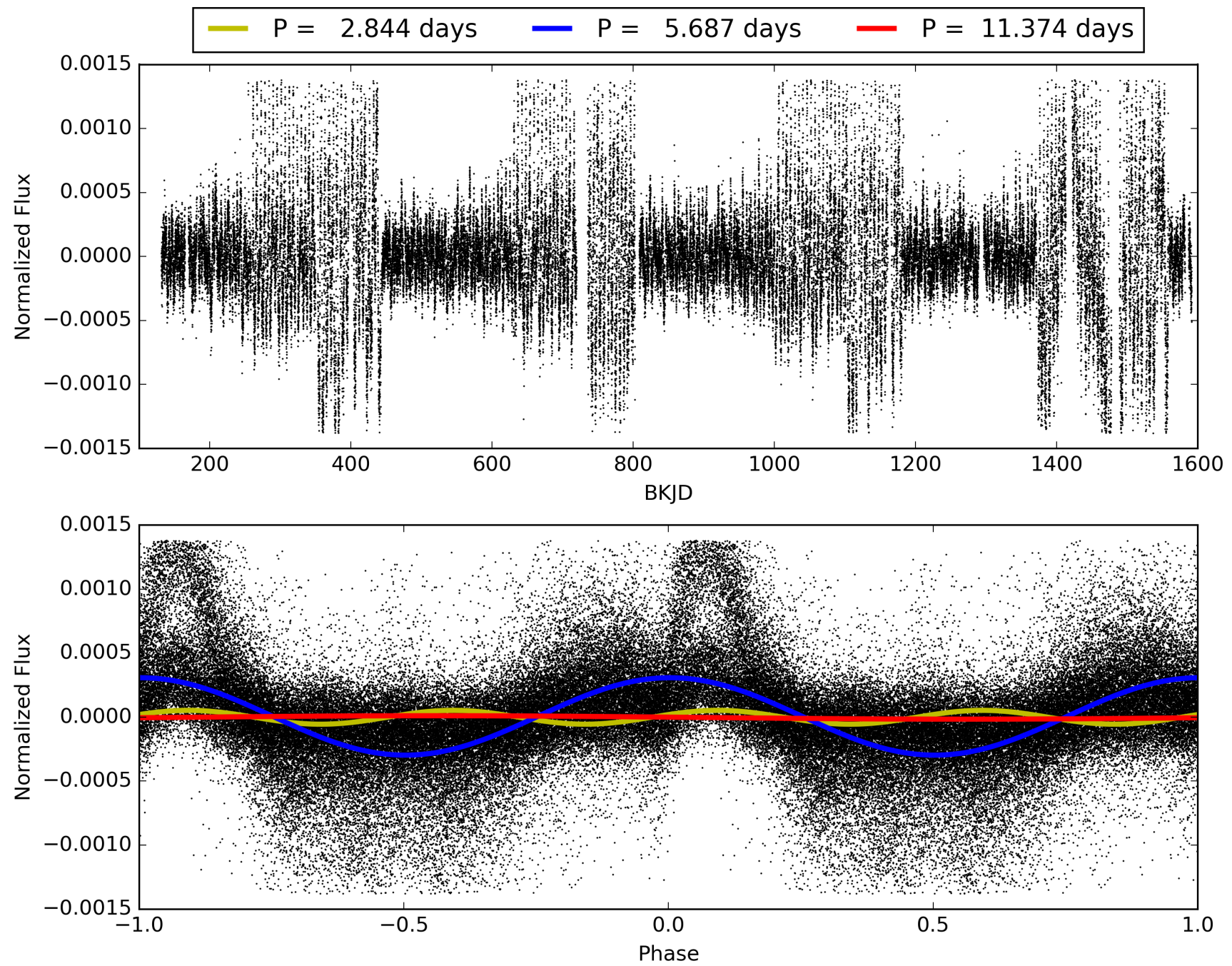
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 23:31:27 Z

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

TCE 008264526-01, PDC Light Curves

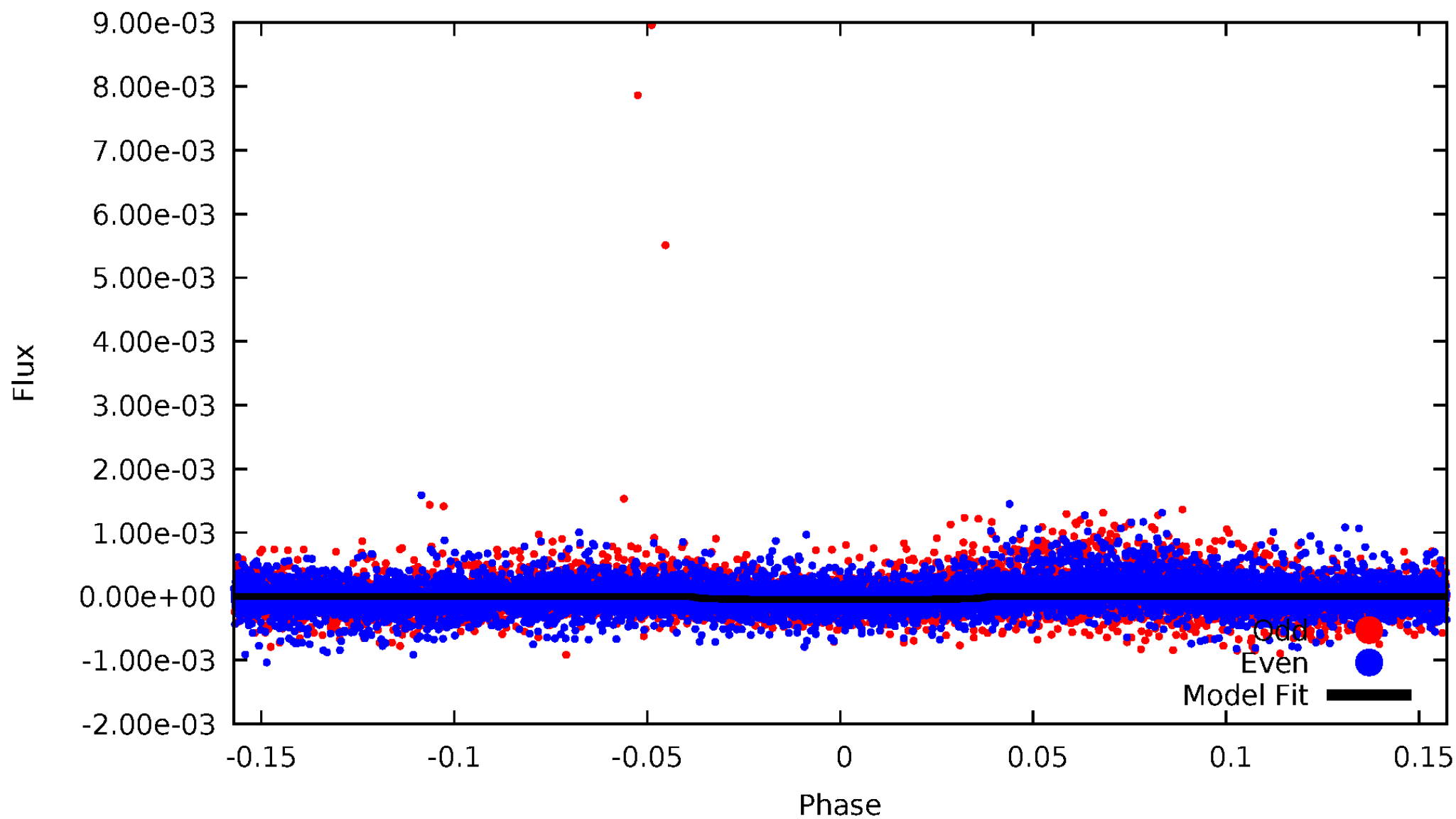


TCE 008264526-01



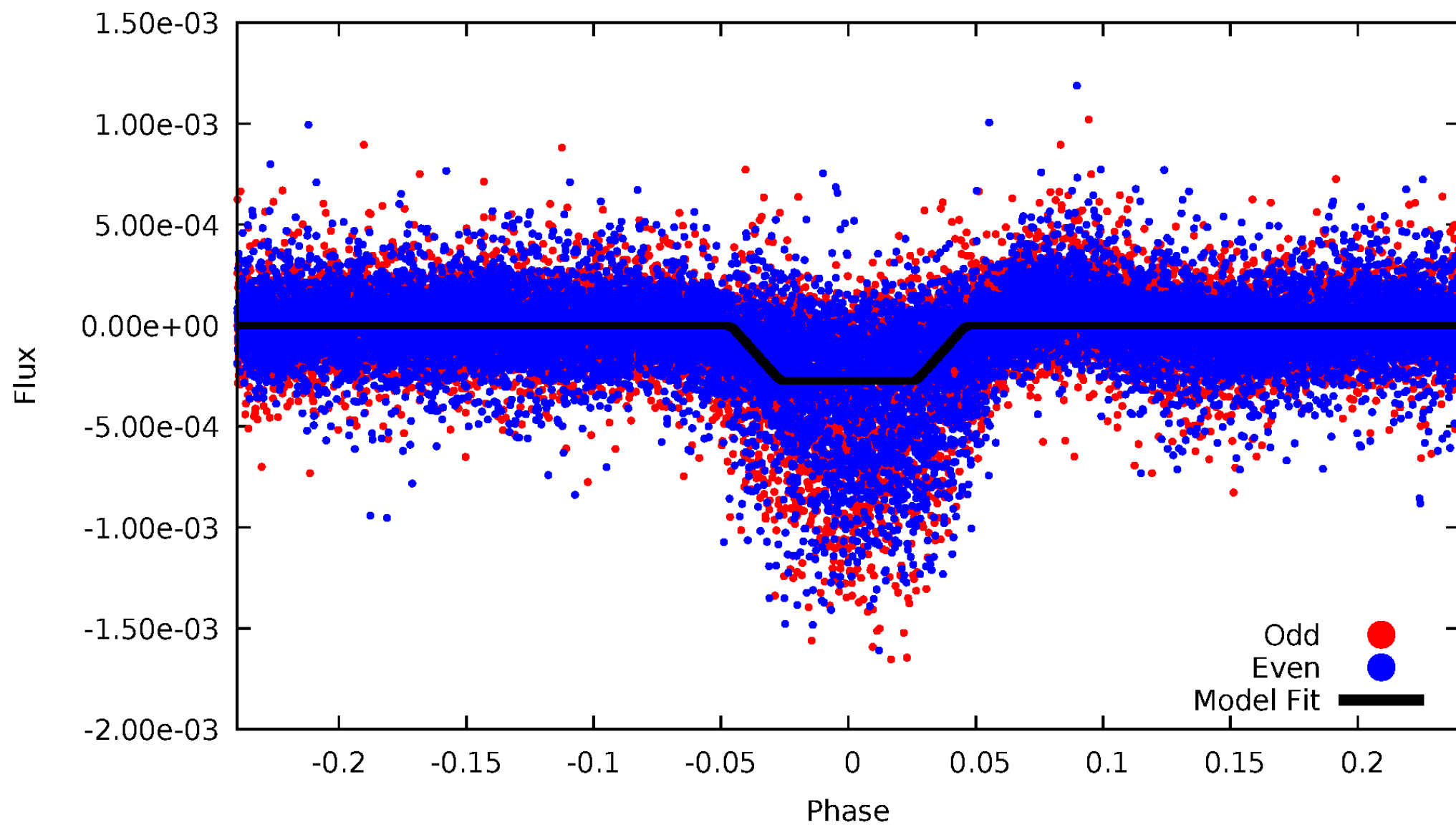
DV Odd/Even

TCE 008264526-01



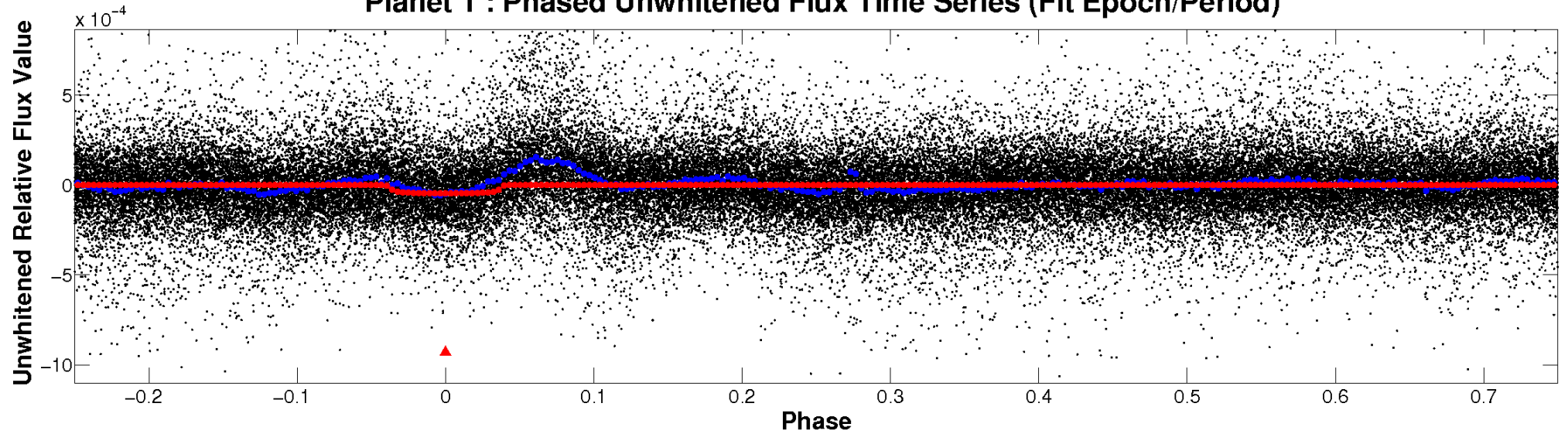
ALT Odd/Even

TCE 008264526-01

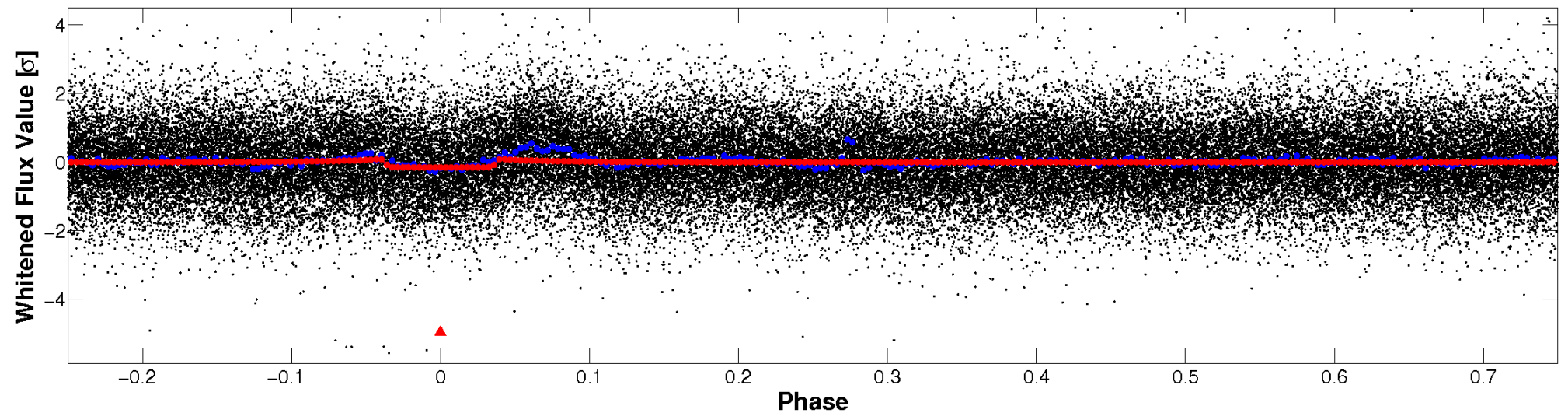


Non-Whitened Vs. Whitened Light Curve

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

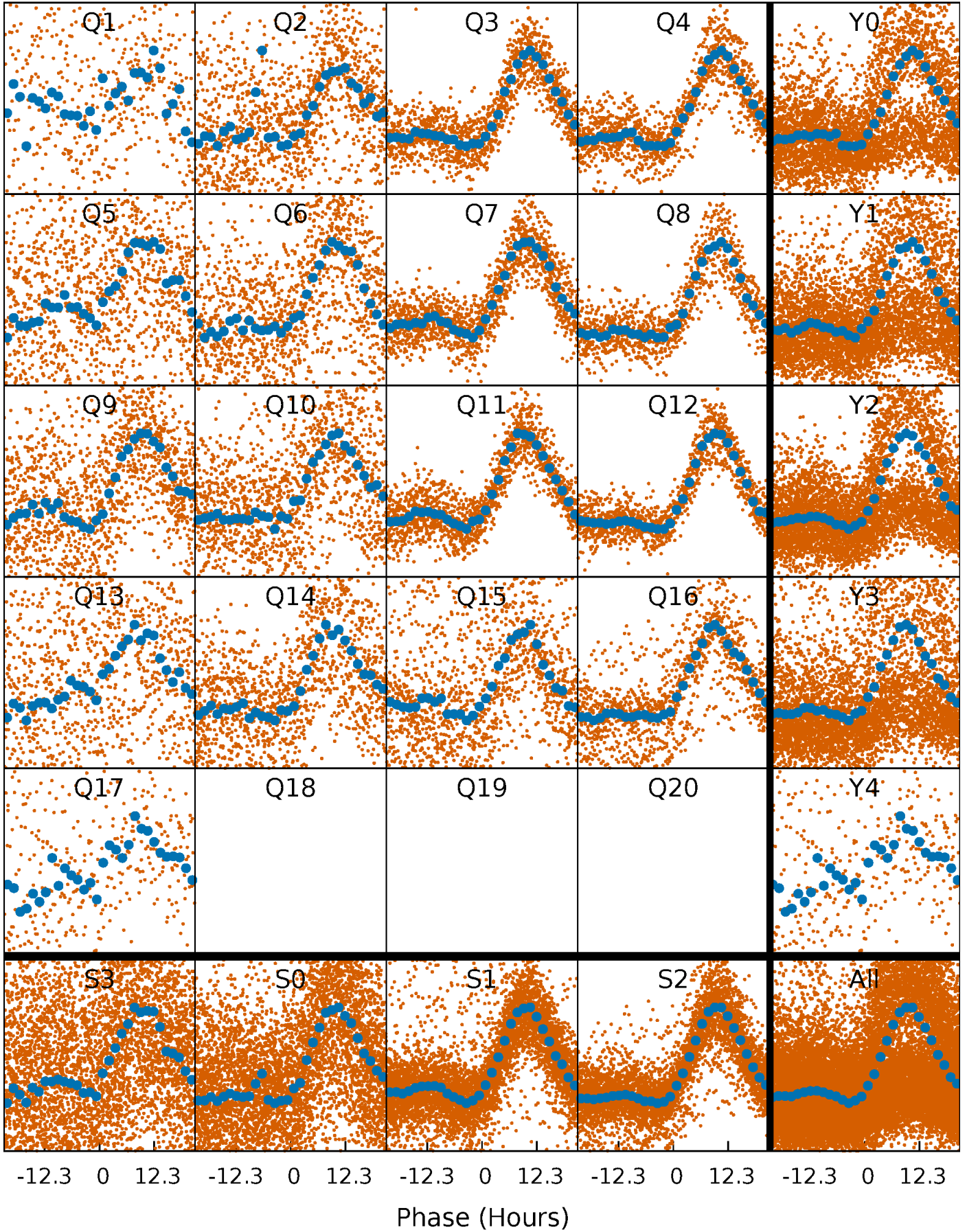


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



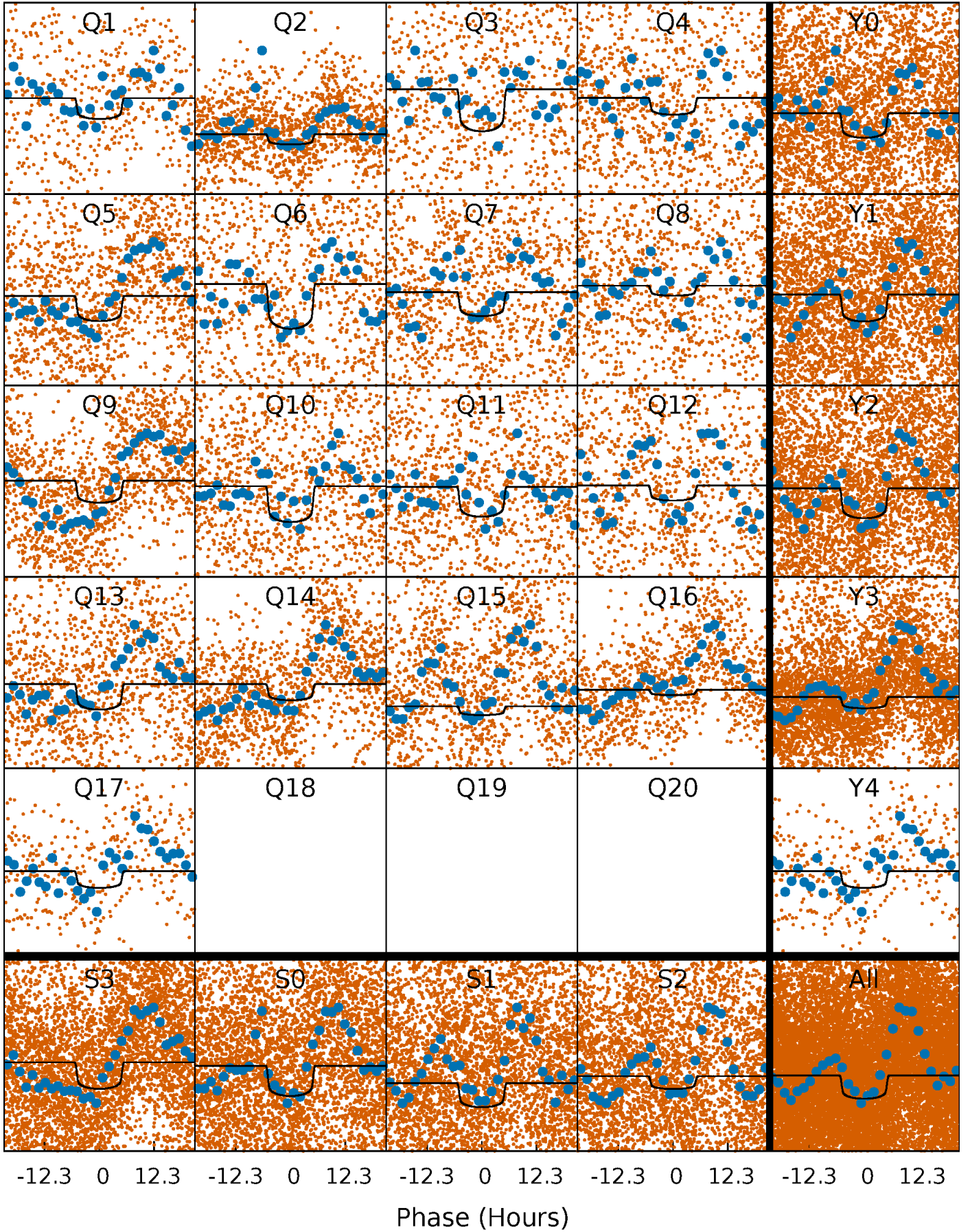
PDC Quarter-Phased Transit Curves

TCE 008264526-01 P= 5.687027 Days $T_0=135.640547$ (BKJD)



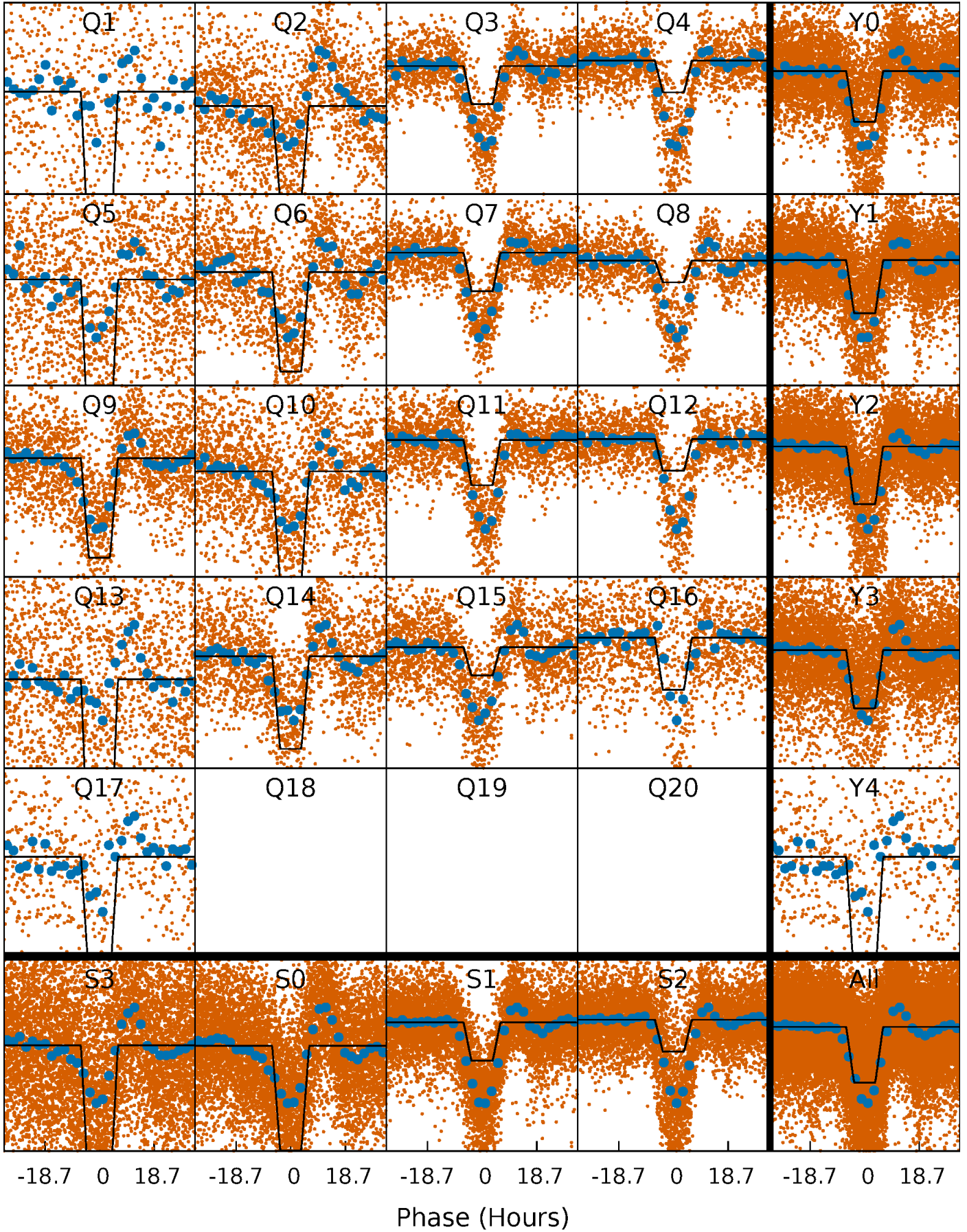
DV Quarter-Phased Transit Curves

TCE 008264526-01 P= 5.687027 Days $T_0=135.640547$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

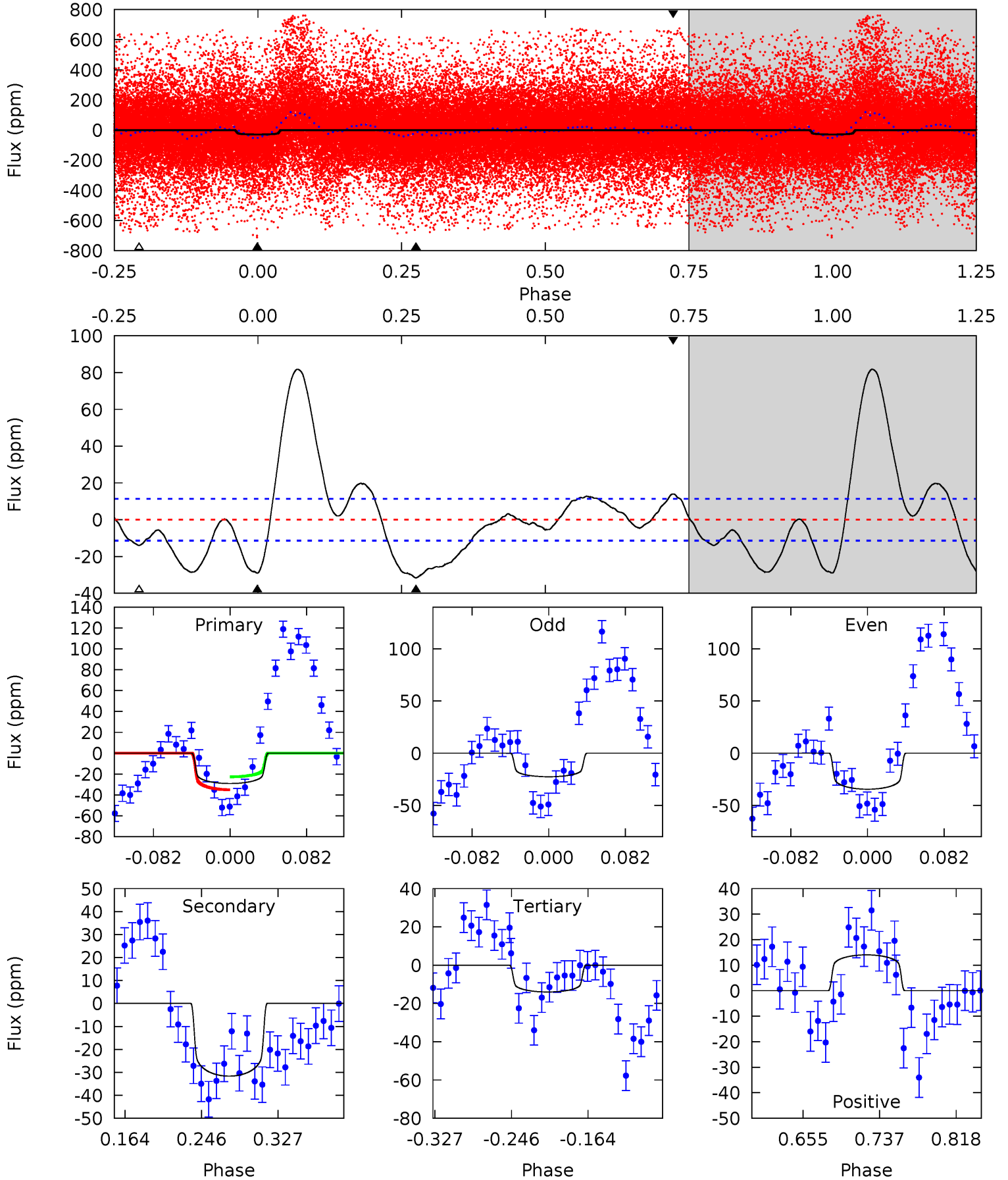
TCE 008264526-01 P= 5.686773 Days $T_0=135.631191$ (BKJD)



DV Model-Shift Uniqueness Test

008264526-01, P = 5.687027 Days, E = 129.953520 Days

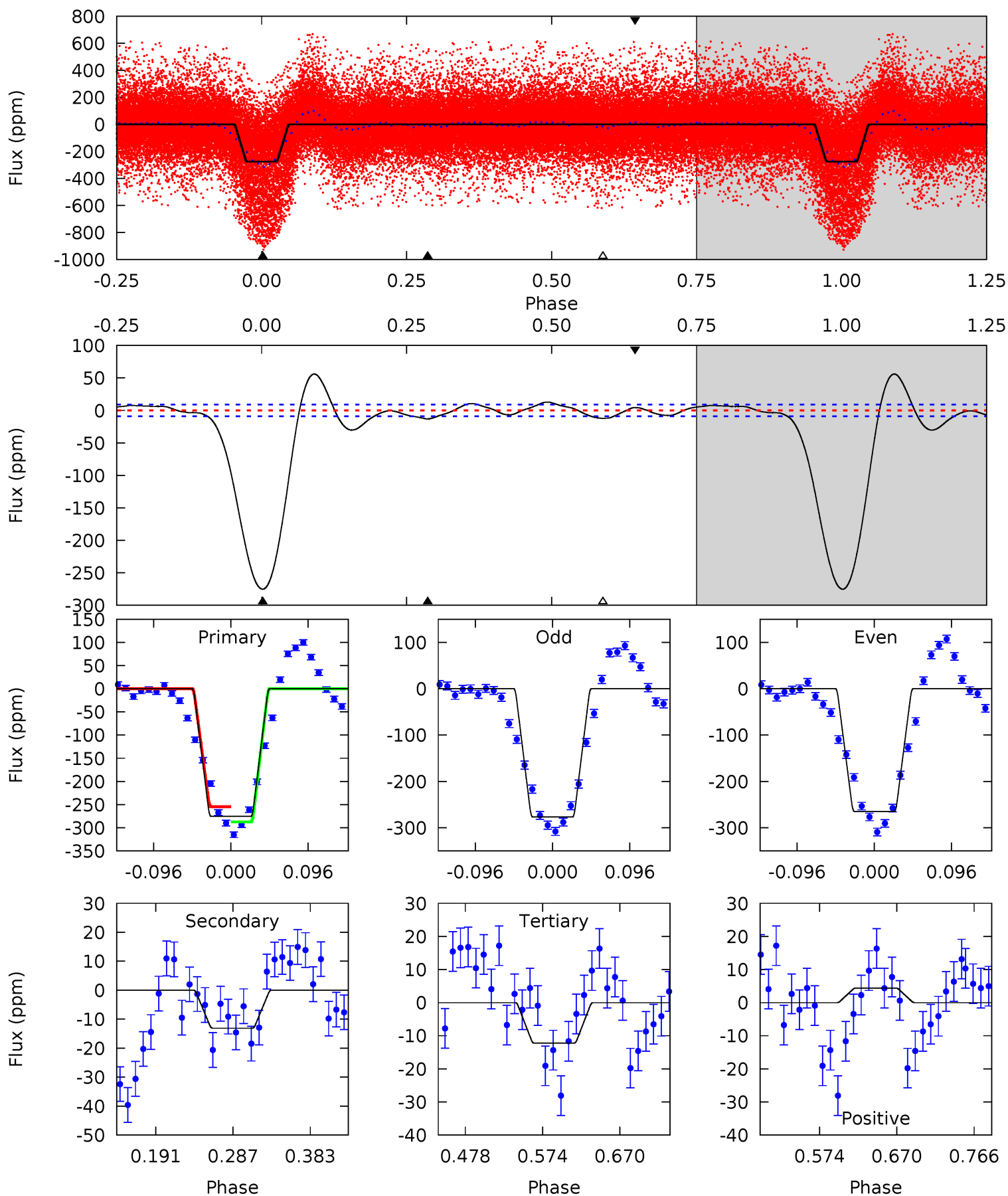
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.8	12.9	5.68	5.70	4.61	1.74	6.47	6.11	6.10	7.17	7.15	2.43	0.87	0.72	2.55



Alt Model-Shift Uniqueness Test

008264526-01, P = 5.686773 Days, E = 129.944418 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
138.4	6.59	6.16	2.22	4.57	1.67	5.83	132.3	136.2	0.43	4.37	2.97	1.56	0.17	8.22



Stellar Parameters For KIC 008264526

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7935^{+216}_{-340}	$3.911^{+0.300}_{-0.100}$	$-0.120^{+0.150}_{-0.400}$	$2.526^{+0.393}_{-0.982}$	$1.895^{+0.078}_{-0.442}$	$0.166^{+0.354}_{-0.053}$
	+3%/-4%	+8%/-3%	+125%/-333%	+16%/-39%	+4%/-23%	+214%/-32%
Source	KIC0	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 008264526-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-32 ± 2	$1.96^{+0.31}_{-0.40}$	2747^{+182}_{-278}	6702^{+457}_{-387}	26^{+14}_{-7}
Alt.	-13 ± 2	$4.43^{+0.52}_{-0.96}$	2757^{+171}_{-281}	3837^{+164}_{-153}	$2.164^{+1.141}_{-0.534}$

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

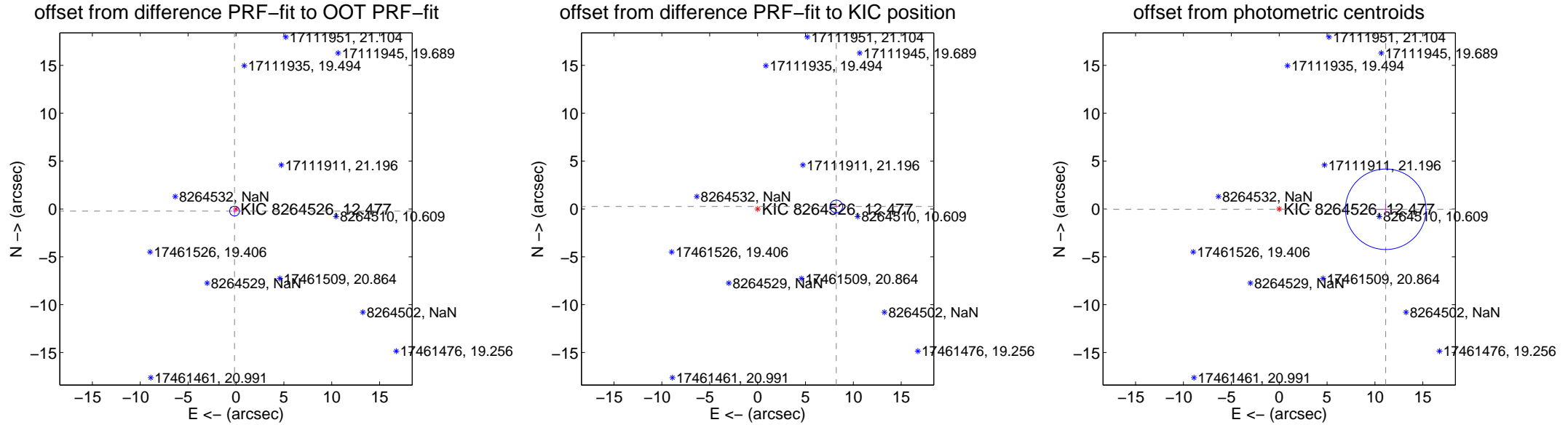
DV Centroid Data

Supplemental centroid analysis for 008264526-01. Kepler magnitude: 12.48. Transit SNR 11.71

There are 6 quarters with good PRF difference image offsets

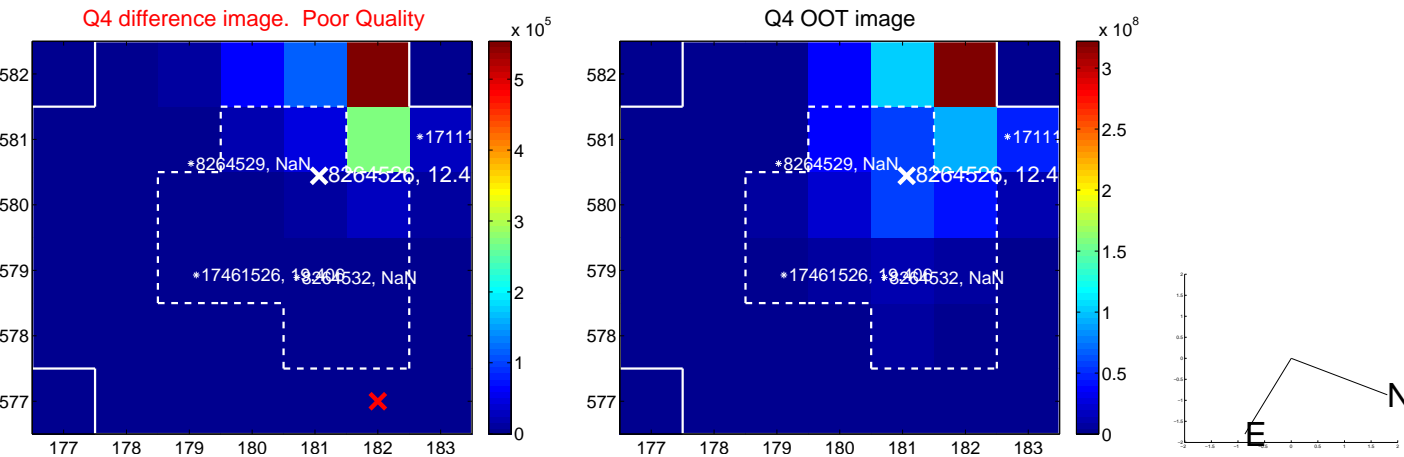
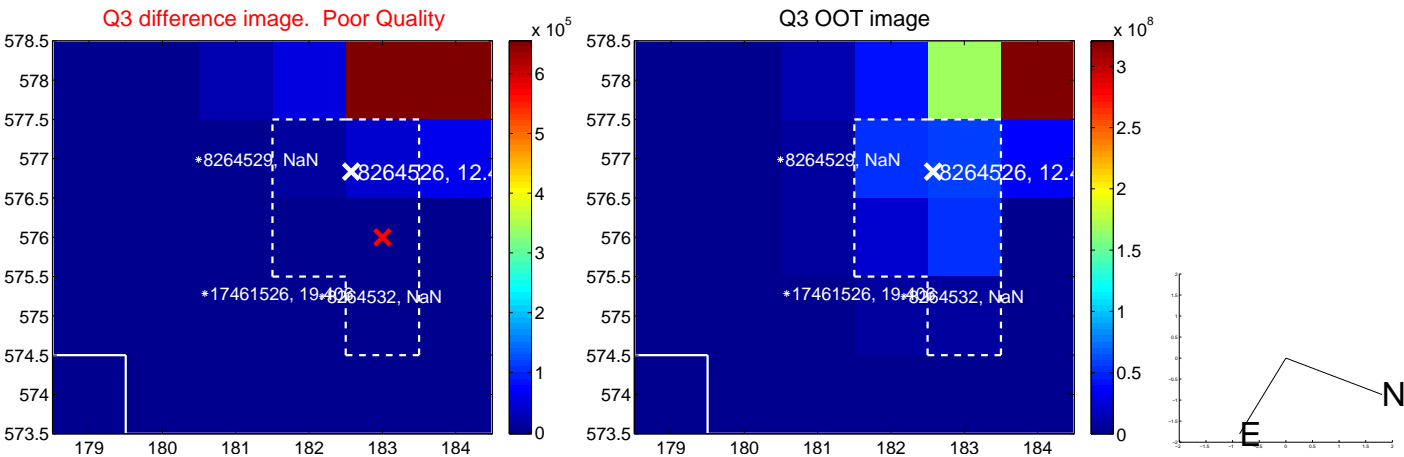
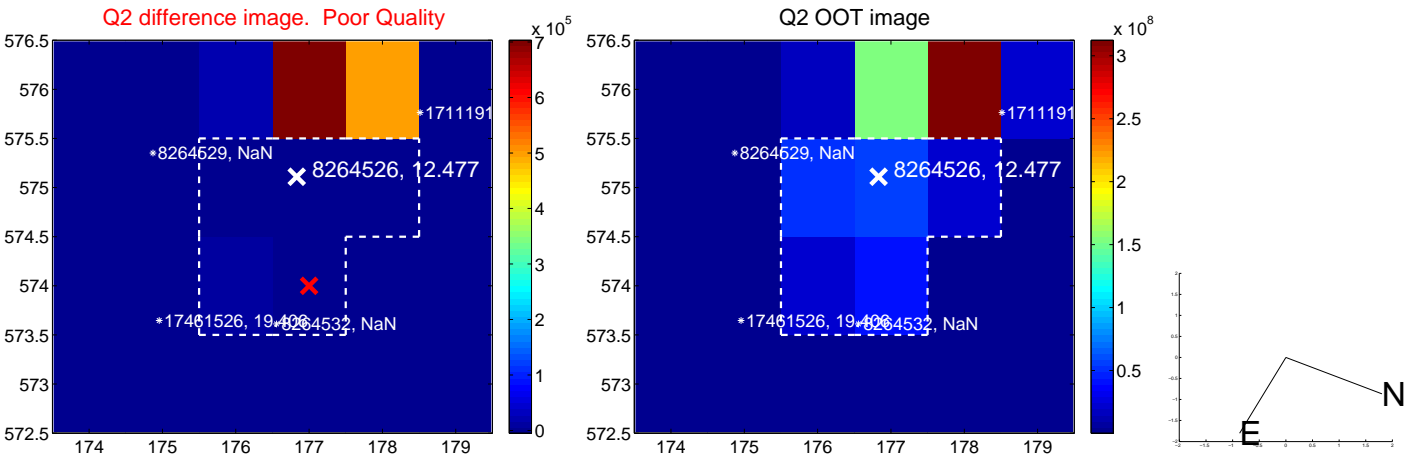
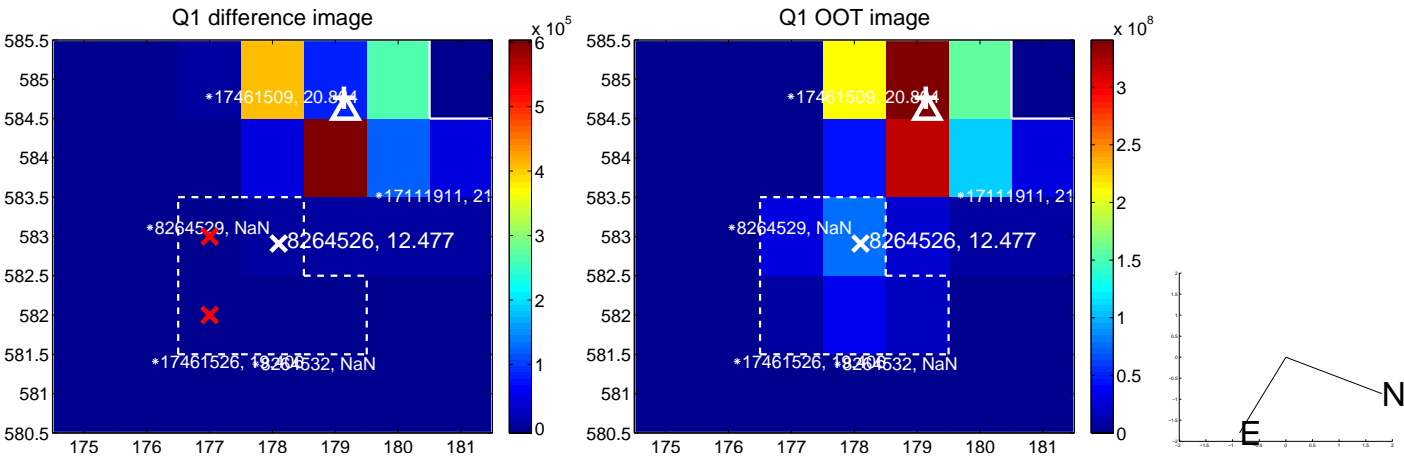
The OOT PRF centroid is offset from the target star catalog position by about 8.51 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.270 ± 0.171	1.58	0.149 ± 0.150	-0.225 ± 0.179
PRF-fit source offset from KIC position	8.219 ± 0.221	37.14	-8.215 ± 0.224	0.260 ± 0.135
photometric centroid source offset	11.13 ± 1.40	7.94	-11.13 ± 1.40	-0.03 ± 0.59

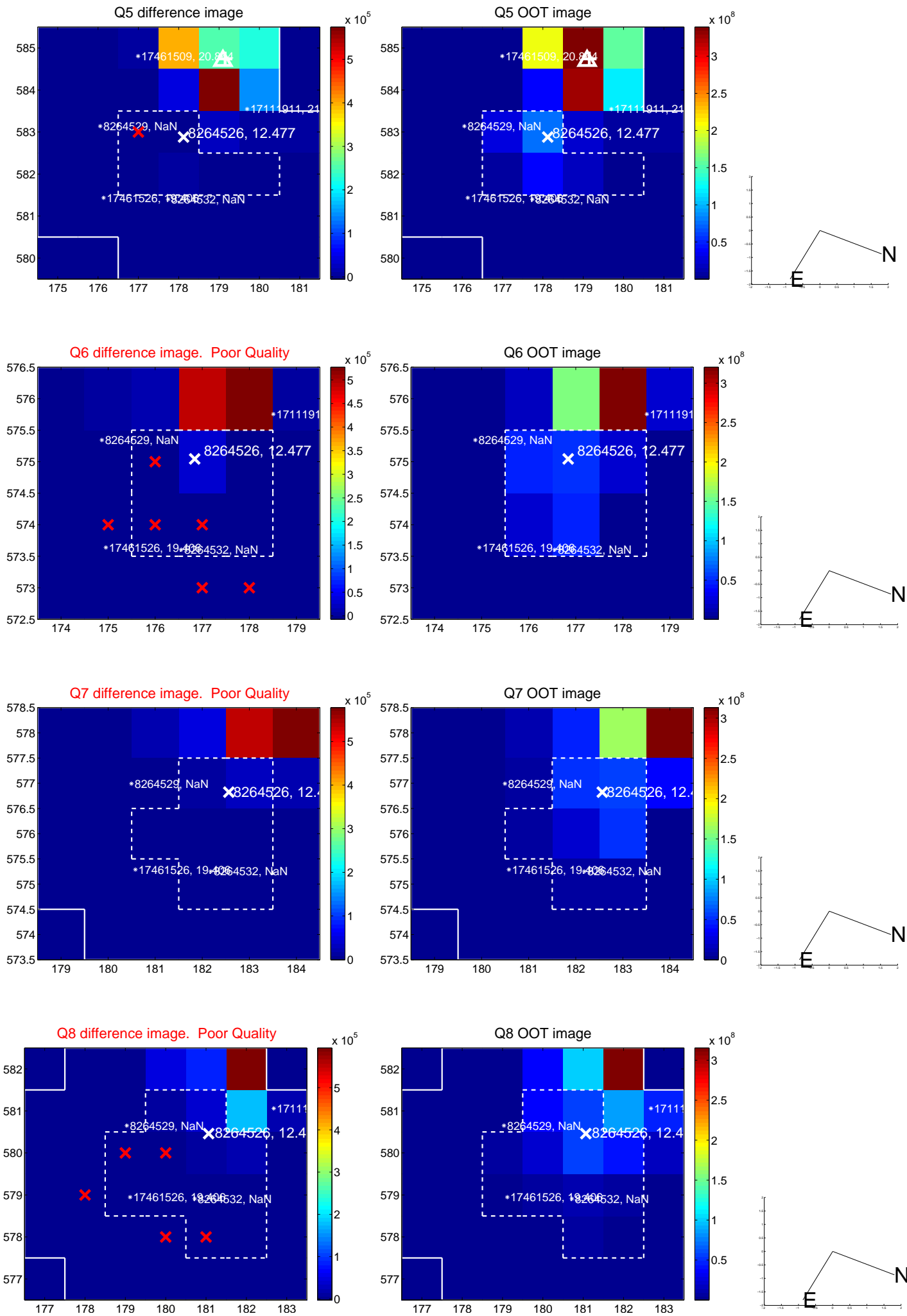


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

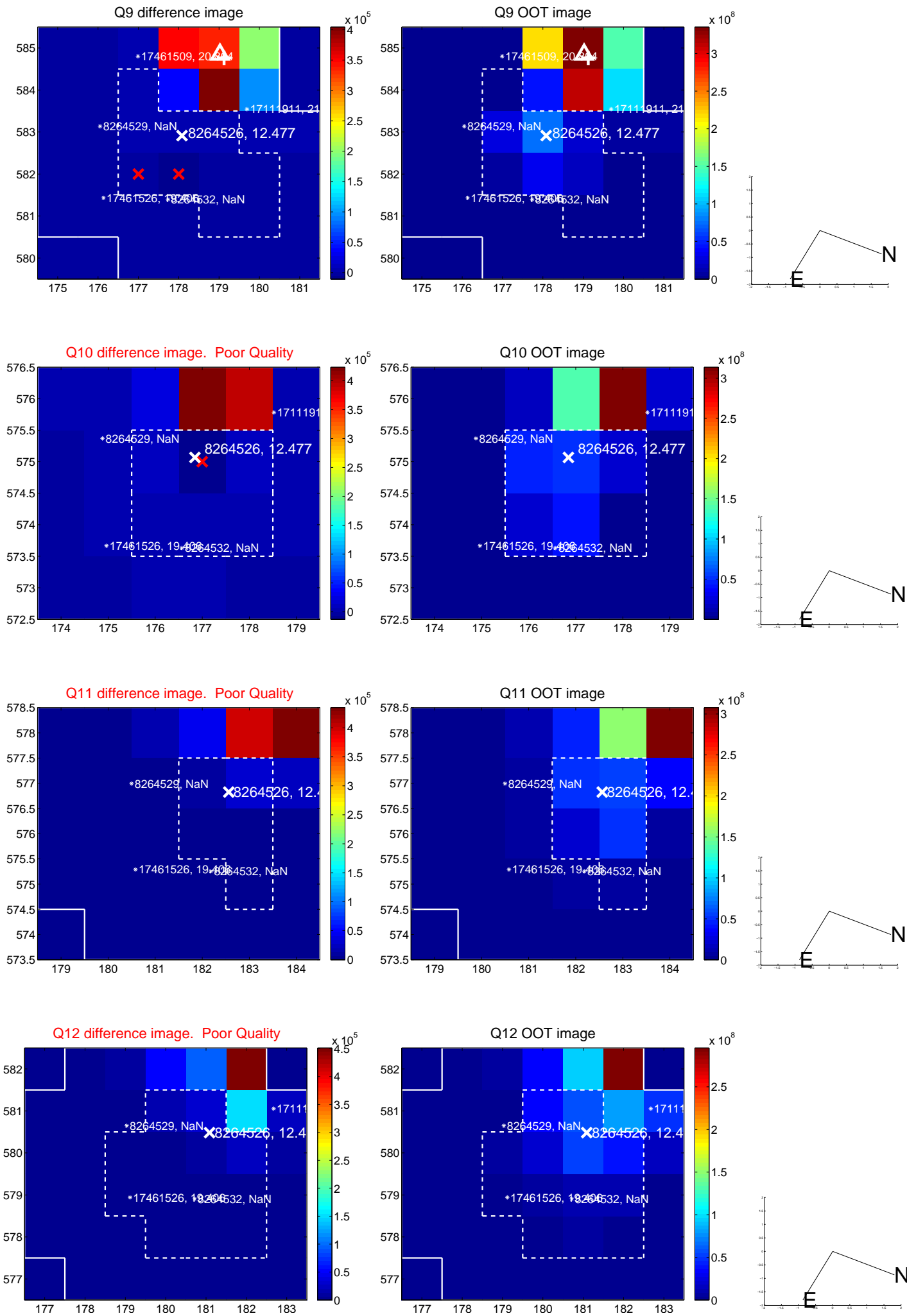
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



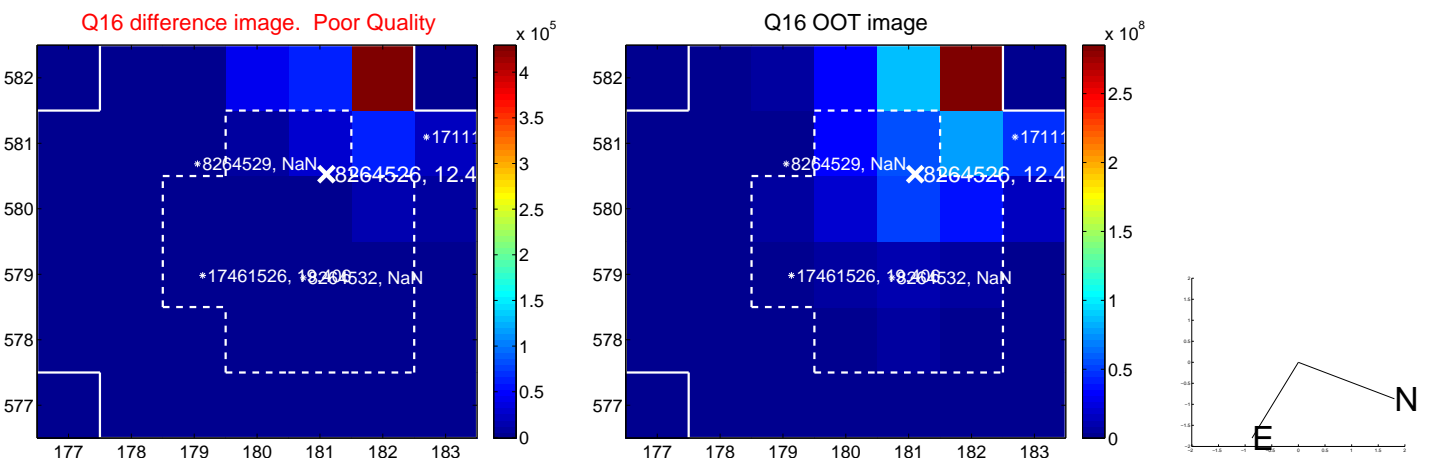
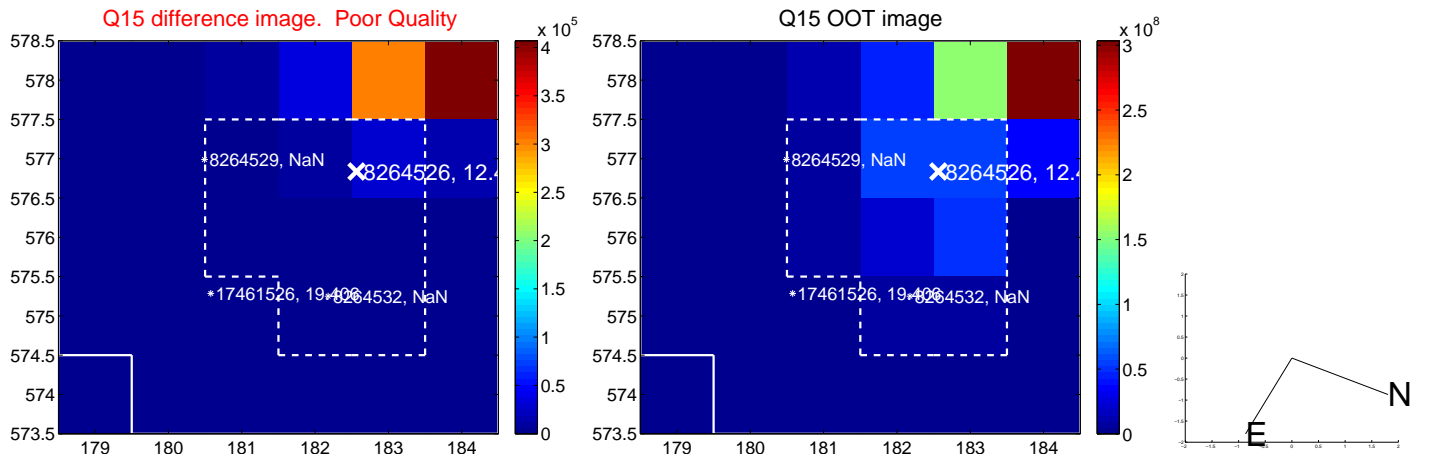
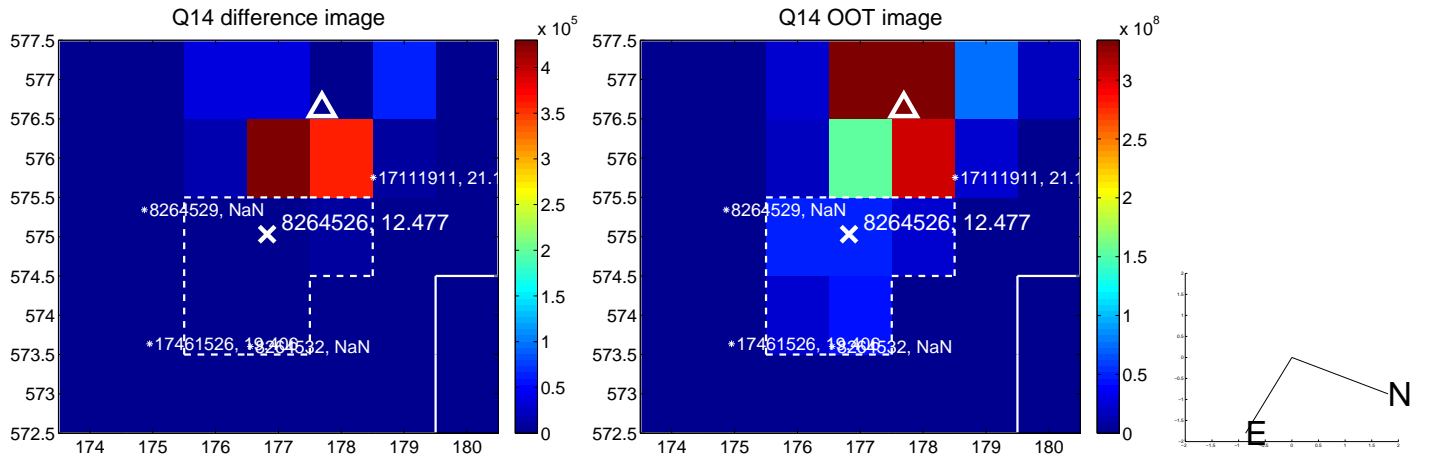
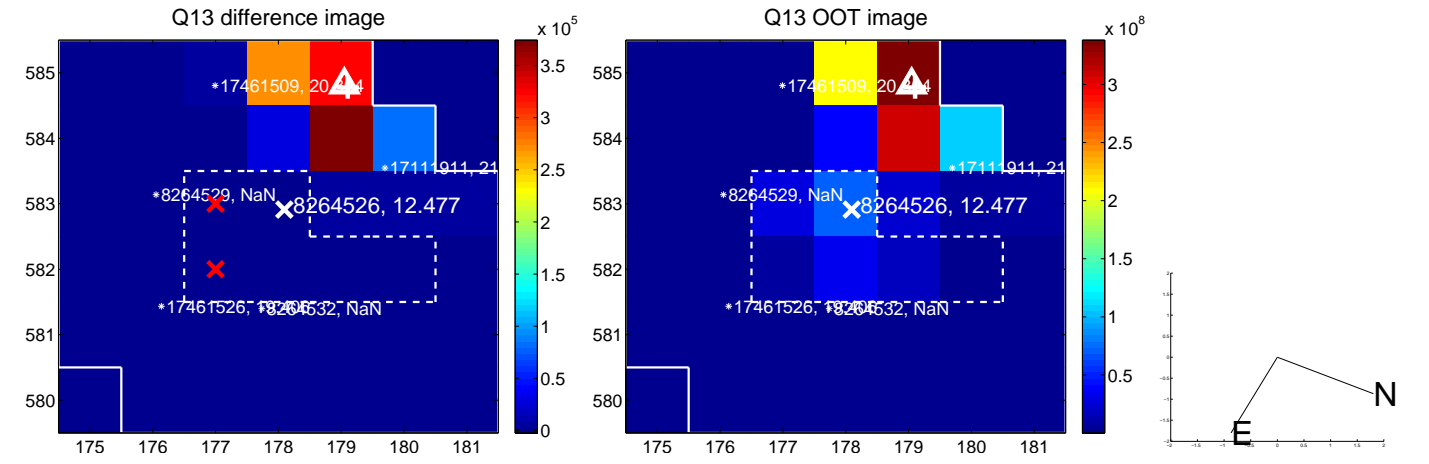
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



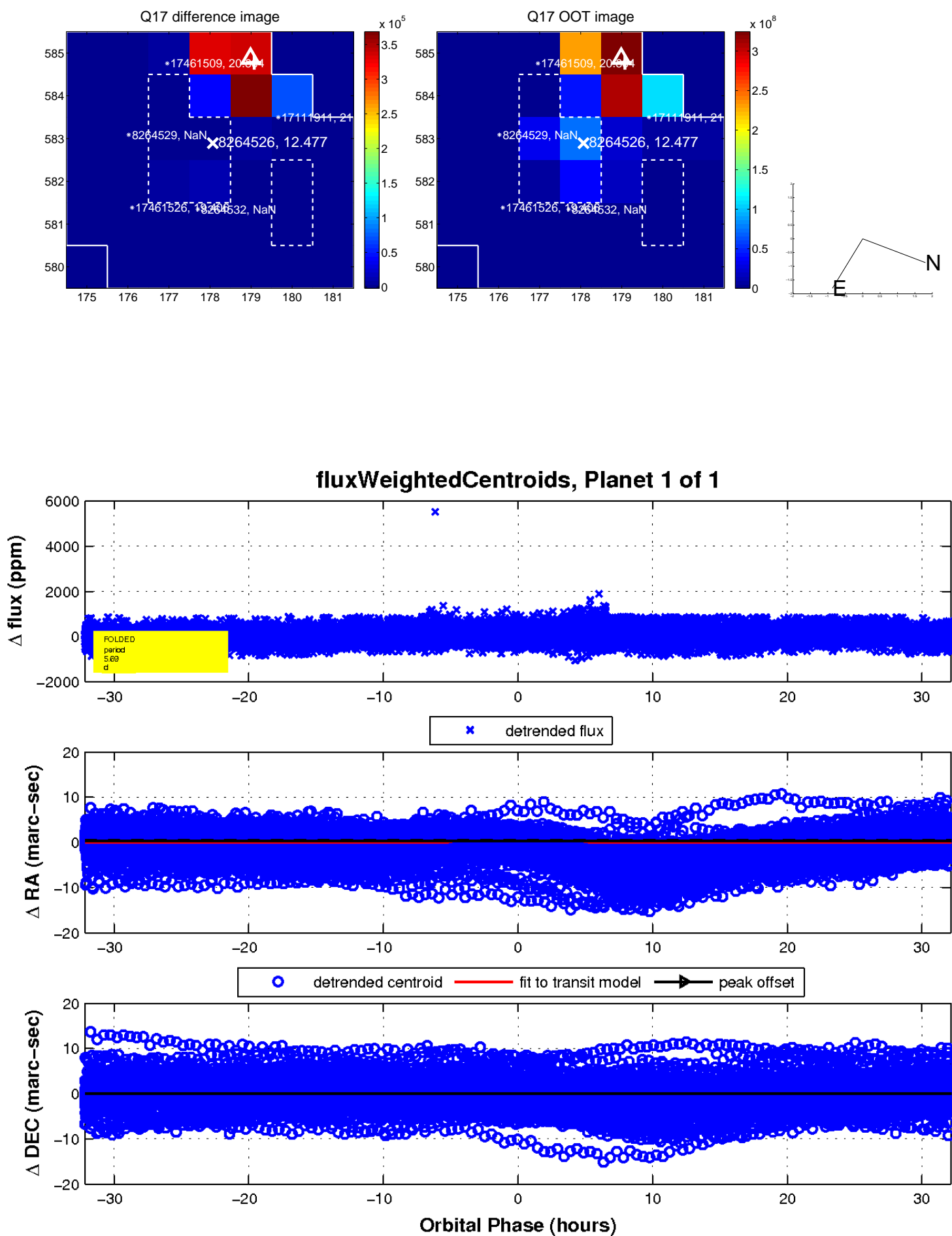
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

