

KIC 011912764

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})
011912764-01	OBS	No	1.158775	132.589049	6.3	6.679	8.5	9.9	3.39	7696	0.88	45177.91

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011912764-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_SATURATED

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

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

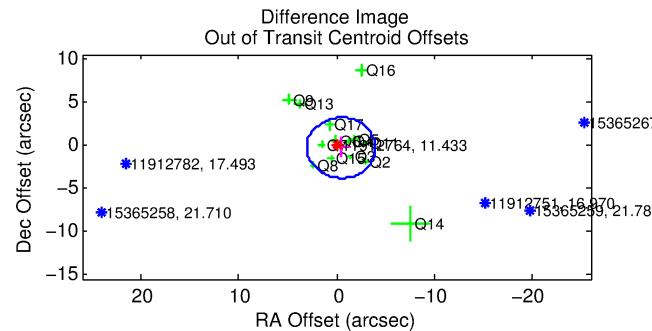
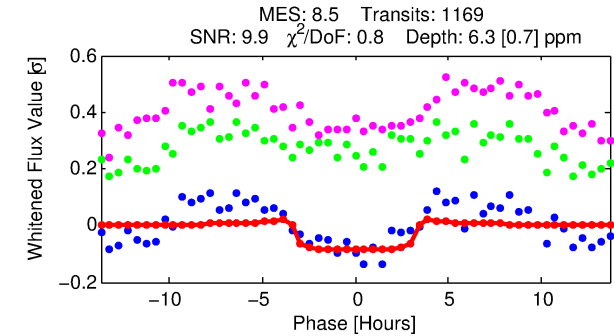
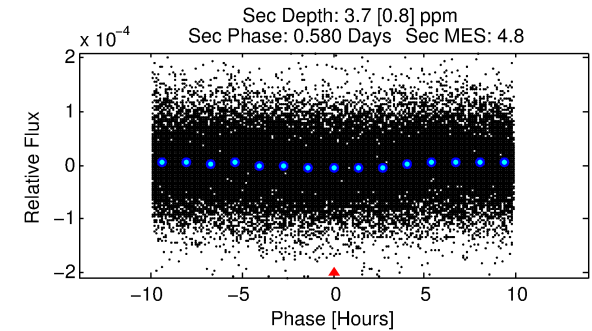
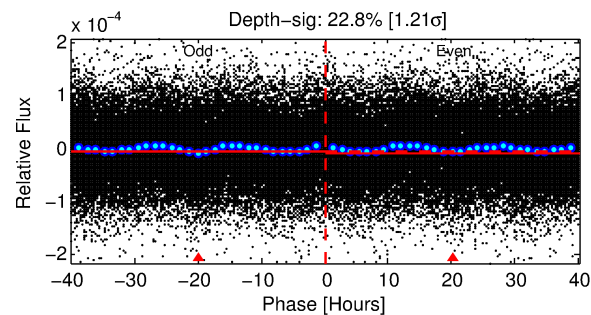
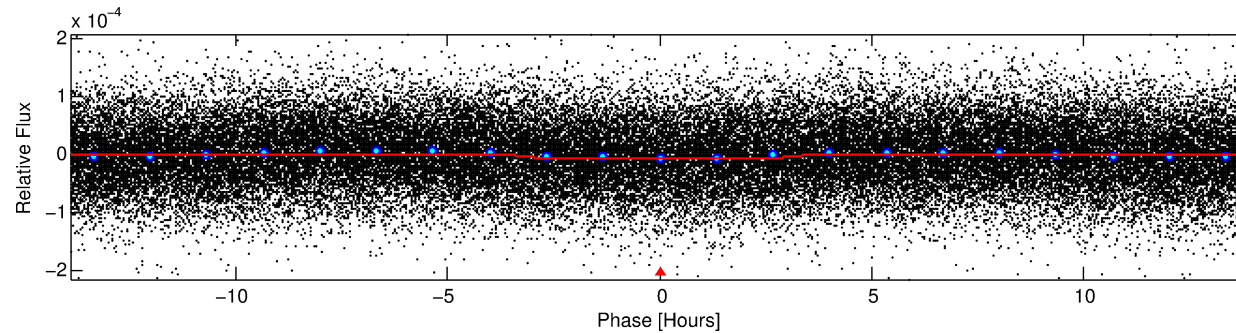
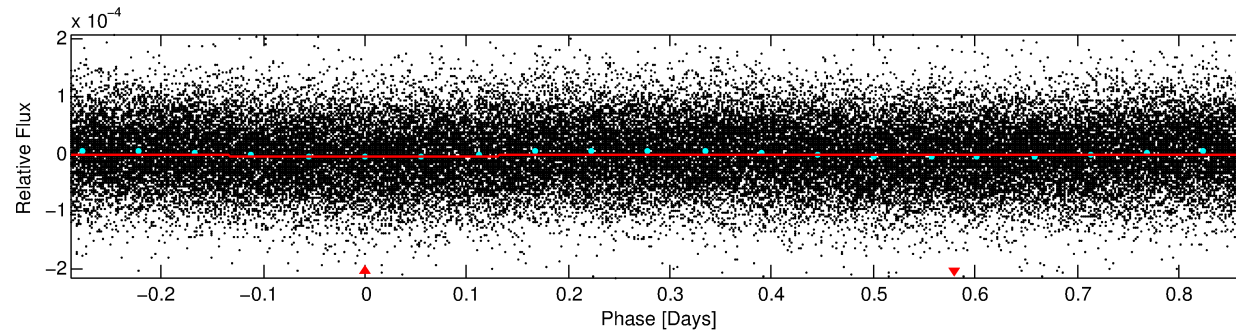
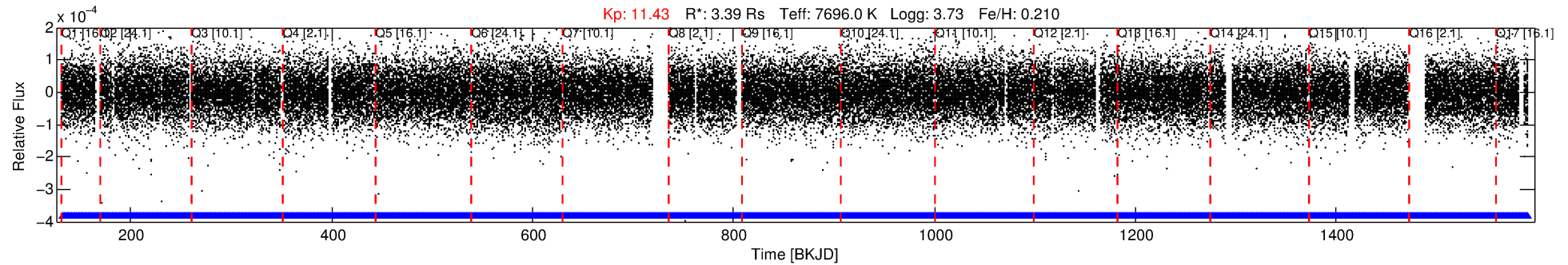
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011912764-01

No Significant Match Found

DV One-Page Summary

KIC: 11912764 Candidate: 1 of 1 Period: 1.159 d



DV Fit Results:

Period = 1.15878 [0.00002] d
Epoch = 132.5890 [0.0056] BKJD
Rp/R* = 0.0024 [0.0006]
a/R* = 1.36 [0.81]
b = 0.52 [1.87]
Seff = 45177.91 [31252.79]
Teq = 3718 [643] K
Rp = 0.88 [0.44] Re
a = 0.0283 [0.0118] AU
Ag = 2.10 [1.76] [0.62 σ]
Teffp = 6916 [935] K [2.82 σ]

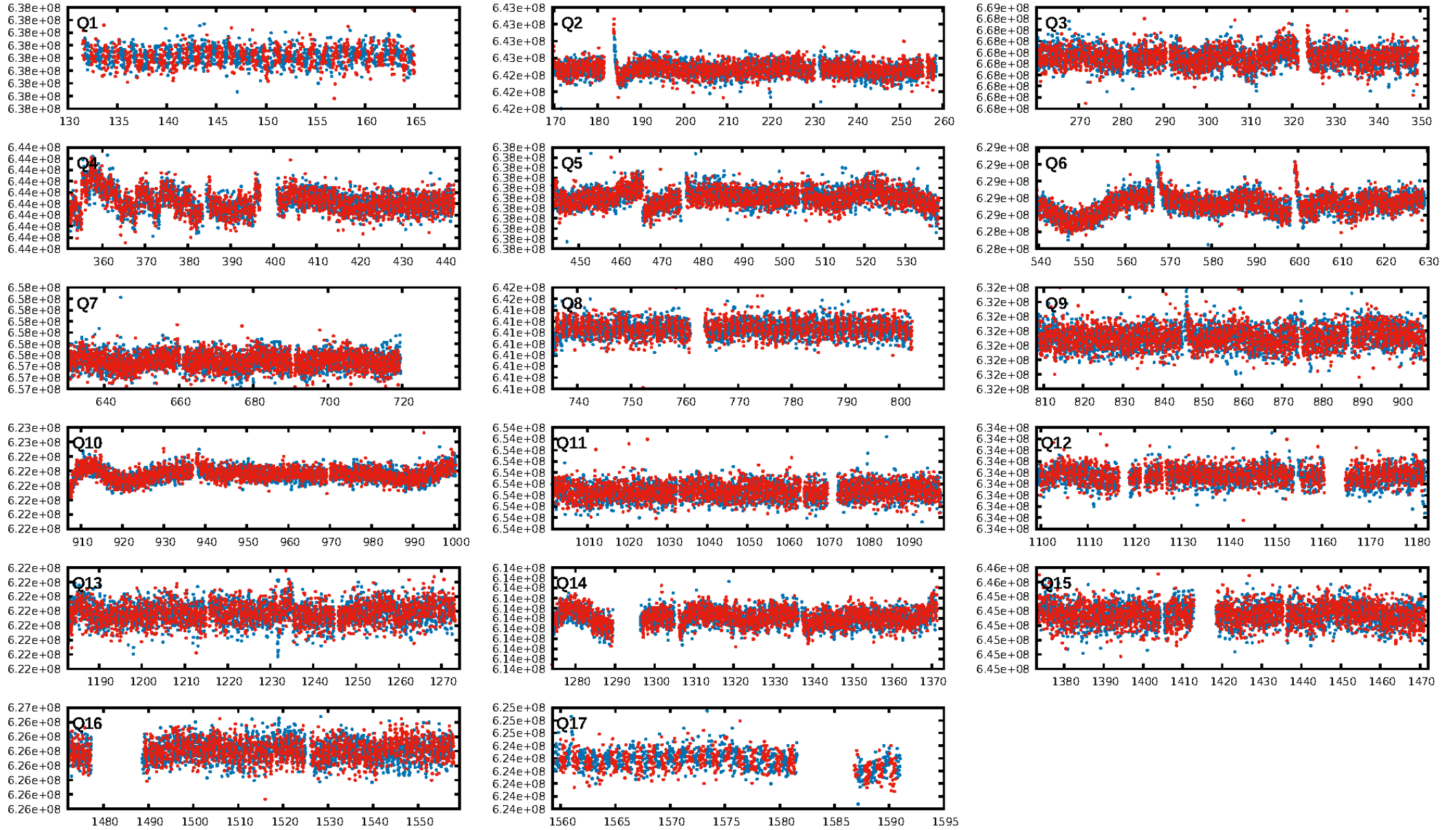
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.10e-08
RollingBand-fgt: 1.00 [1116/1116]
GhostDiagnostic-chr: -10.74
Centroid-sig: 2.0%
Centroid-so: 2.358 arcsec [2.02 σ]
OotOffset-rm: 0.560 arcsec [0.48 σ]
KicOffset-rm: 0.503 arcsec [0.42 σ]
OotOffset-st: 3/4/3/4 [14]
KicOffset-st: 3/4/3/4 [14]
DiffImageQuality-fgm: 0.57 [8/14]
DiffImageOverlap-fno: 1.00 [17/17]

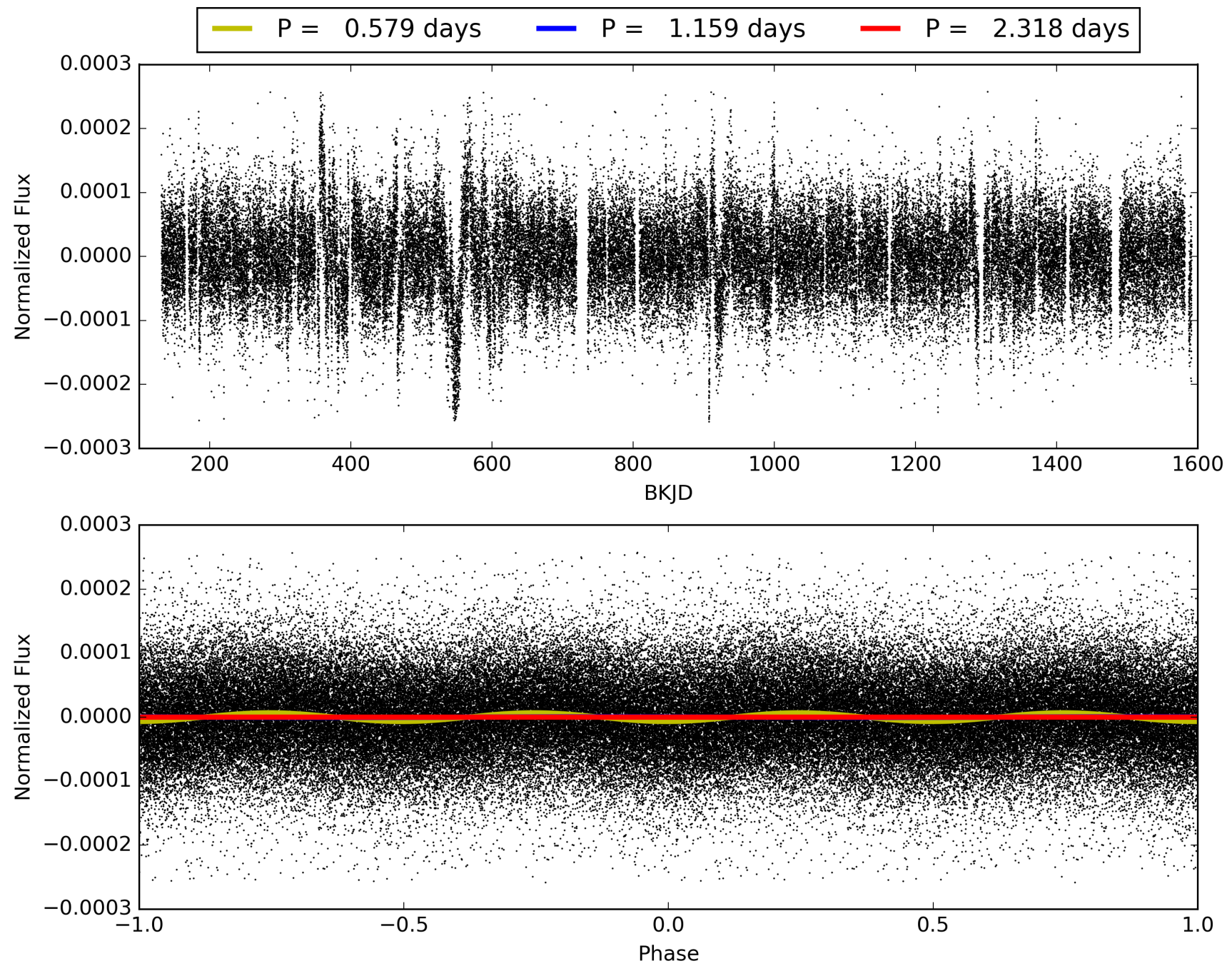
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 01:54:22 Z

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

TCE 011912764-01, PDC Light Curves

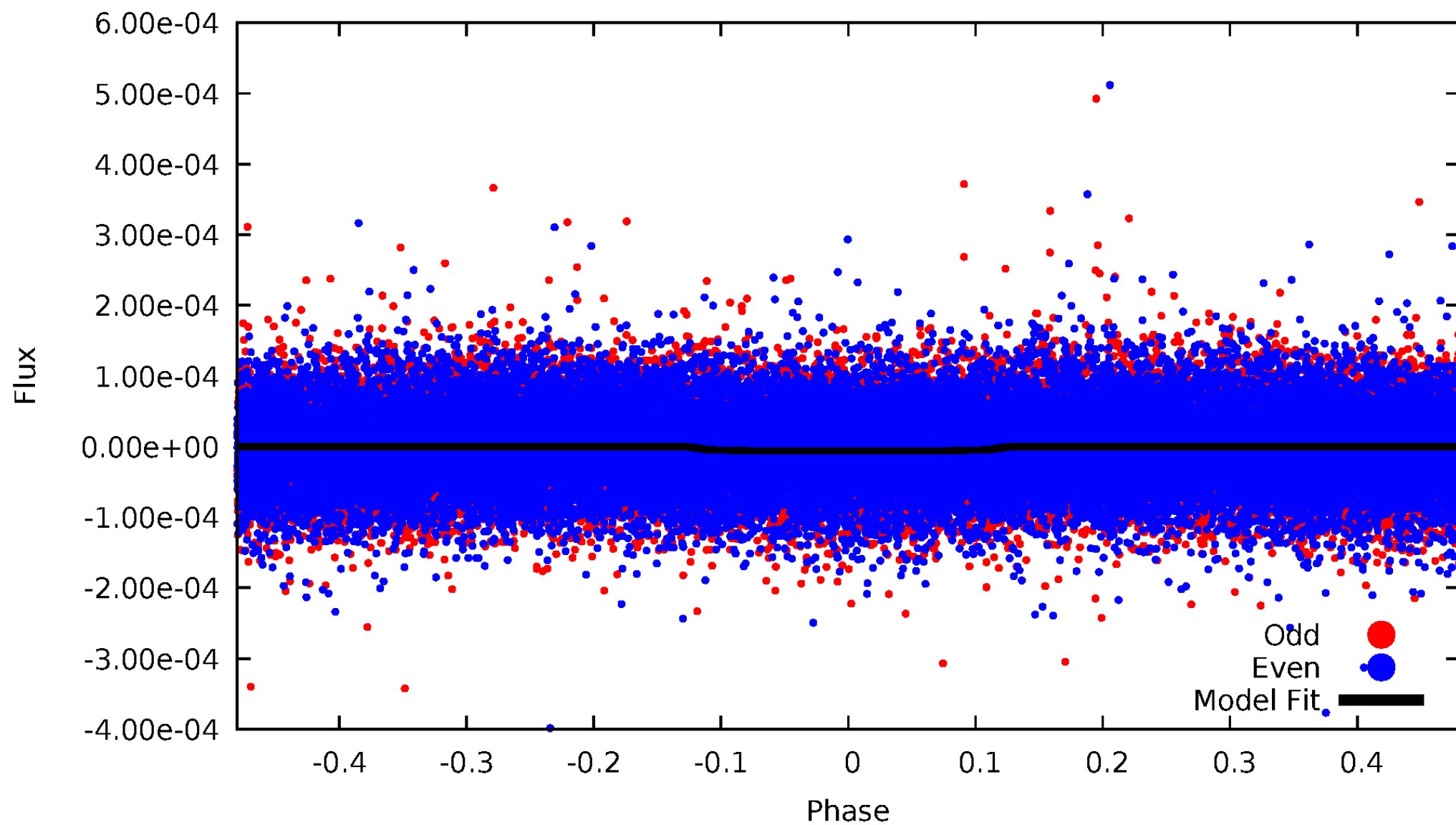


TCE 011912764-01



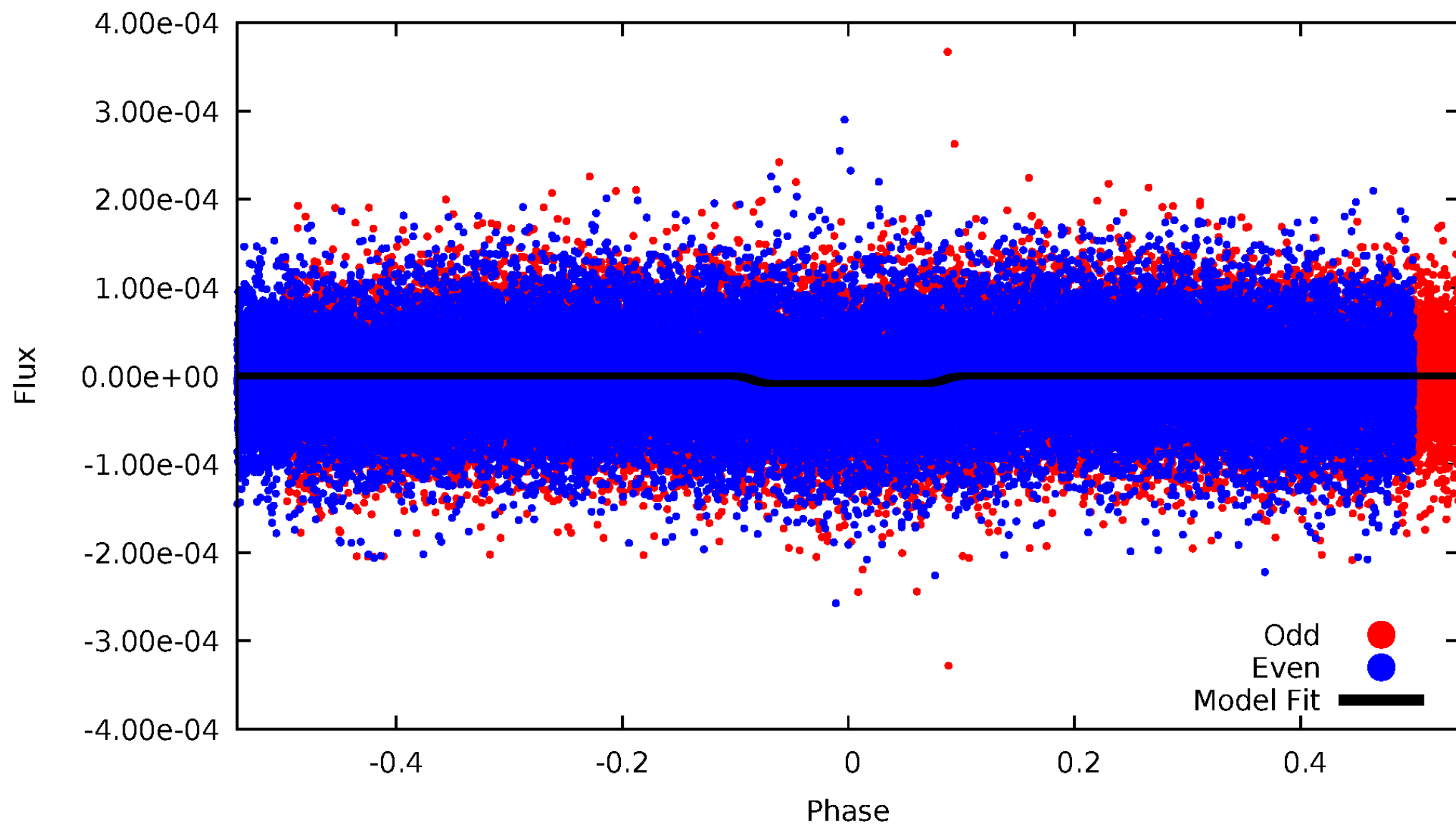
DV Odd/Even

TCE 011912764-01



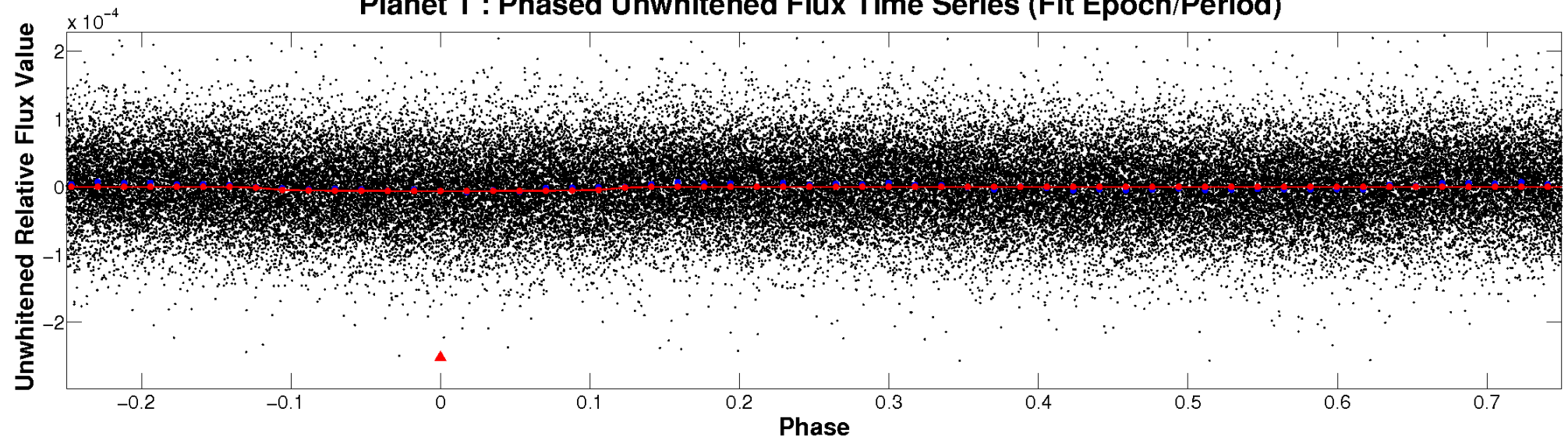
ALT Odd/Even

TCE 011912764-01

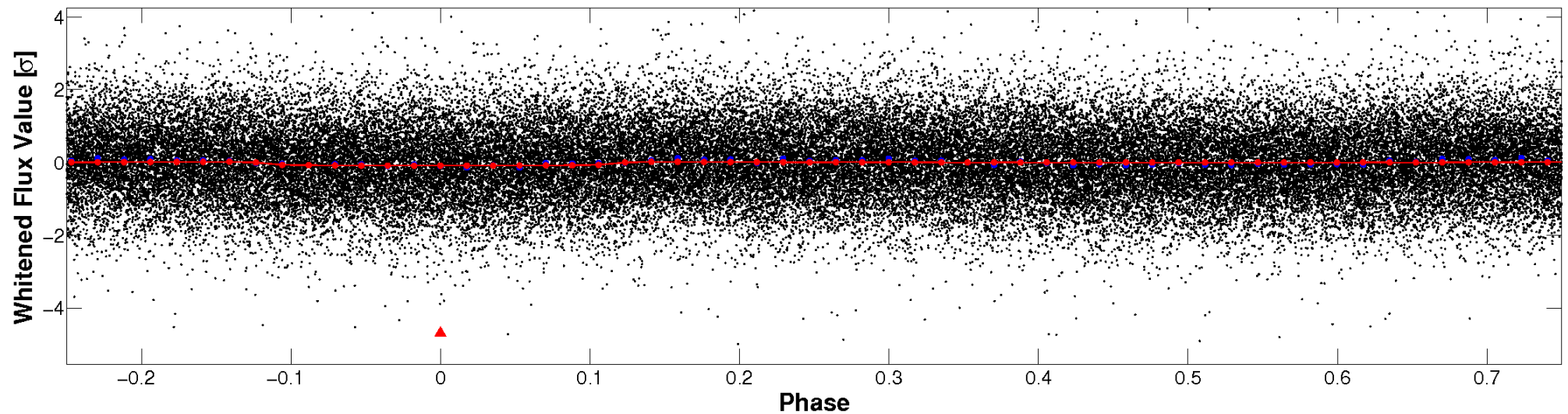


Non-Whitened Vs. Whitened Light Curve

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

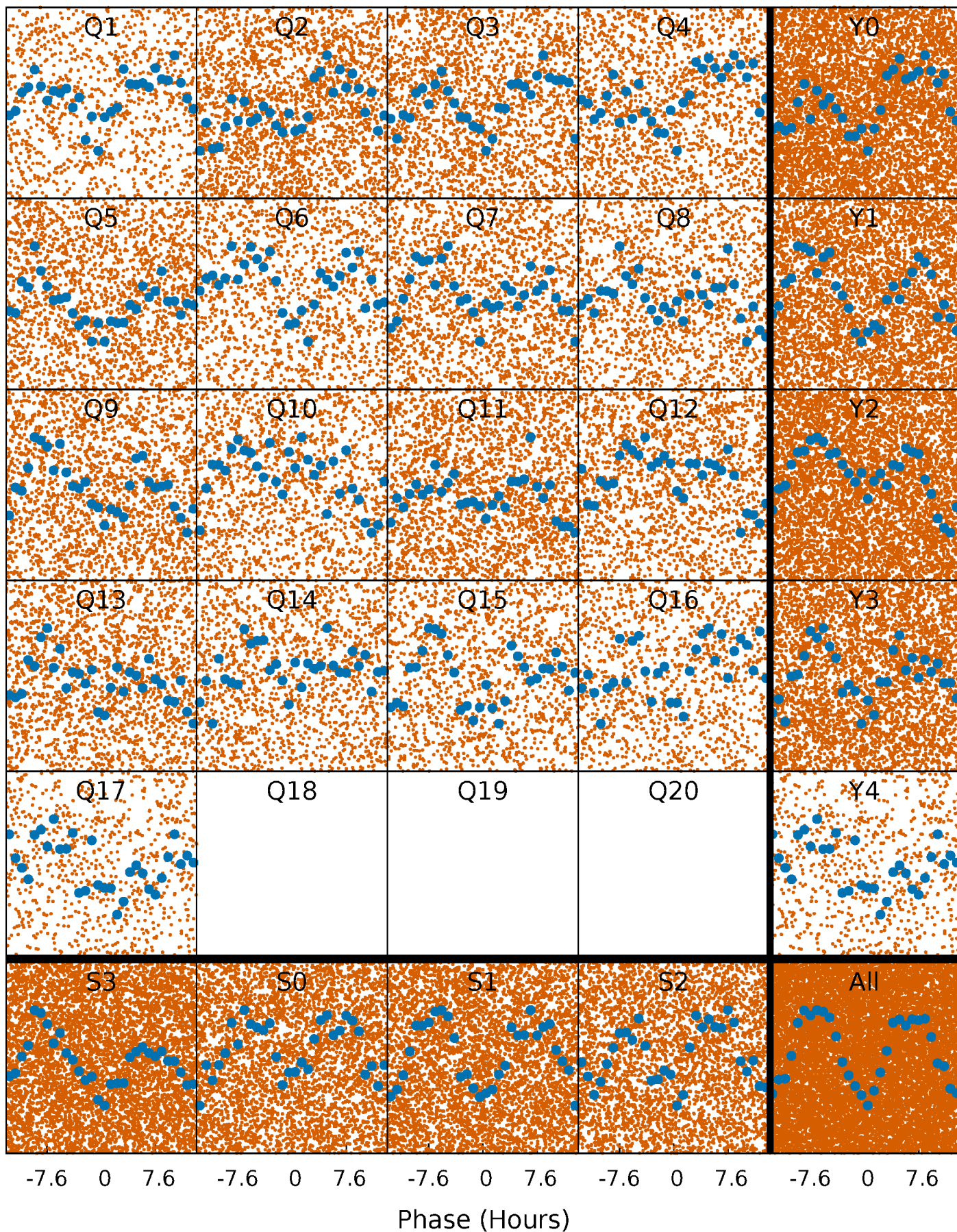


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



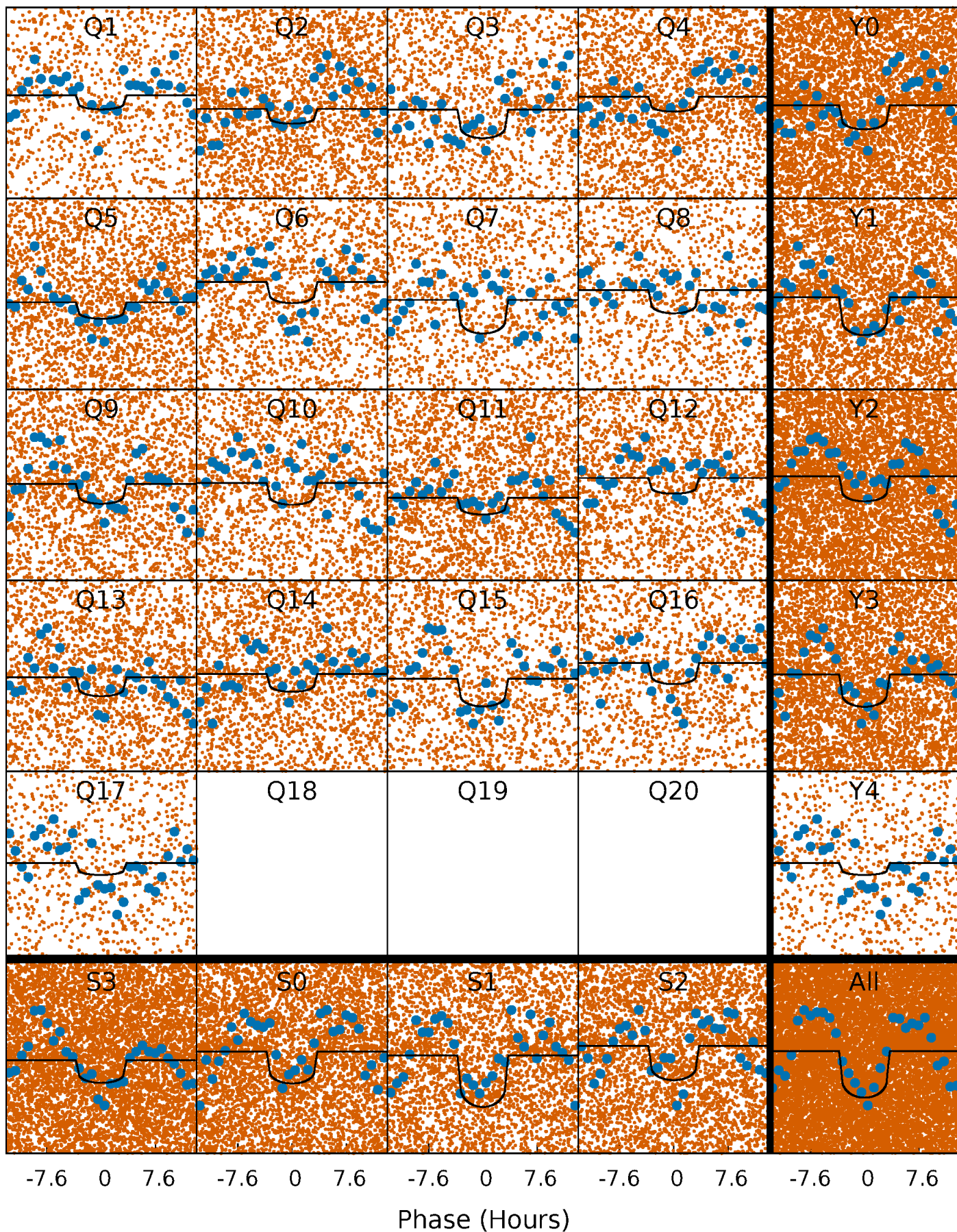
PDC Quarter-Phased Transit Curves

TCE 011912764-01 P= 1.158775 Days $T_0=132.589049$ (BKJD)



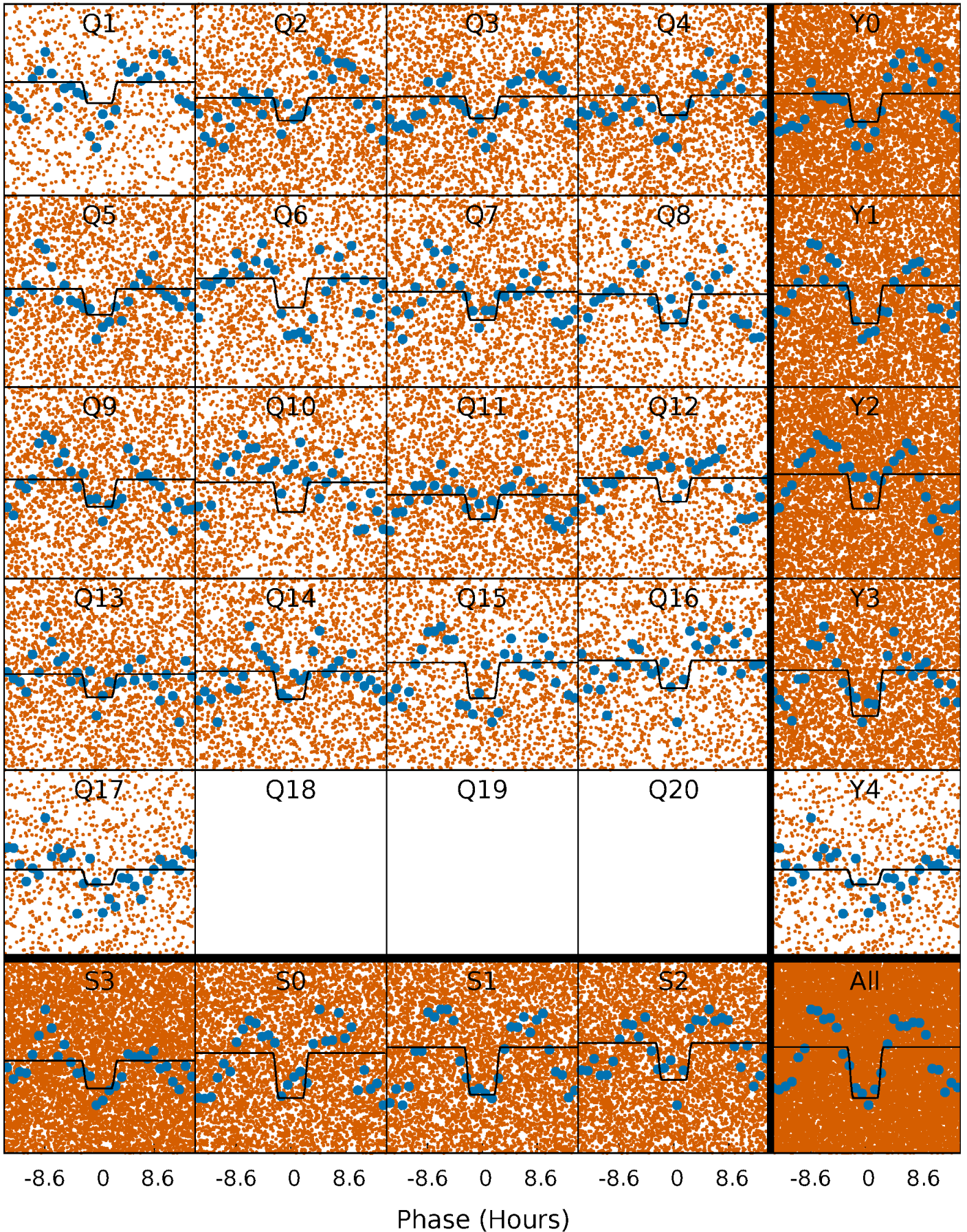
DV Quarter-Phased Transit Curves

TCE 011912764-01 P= 1.158775 Days $T_0=132.589049$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

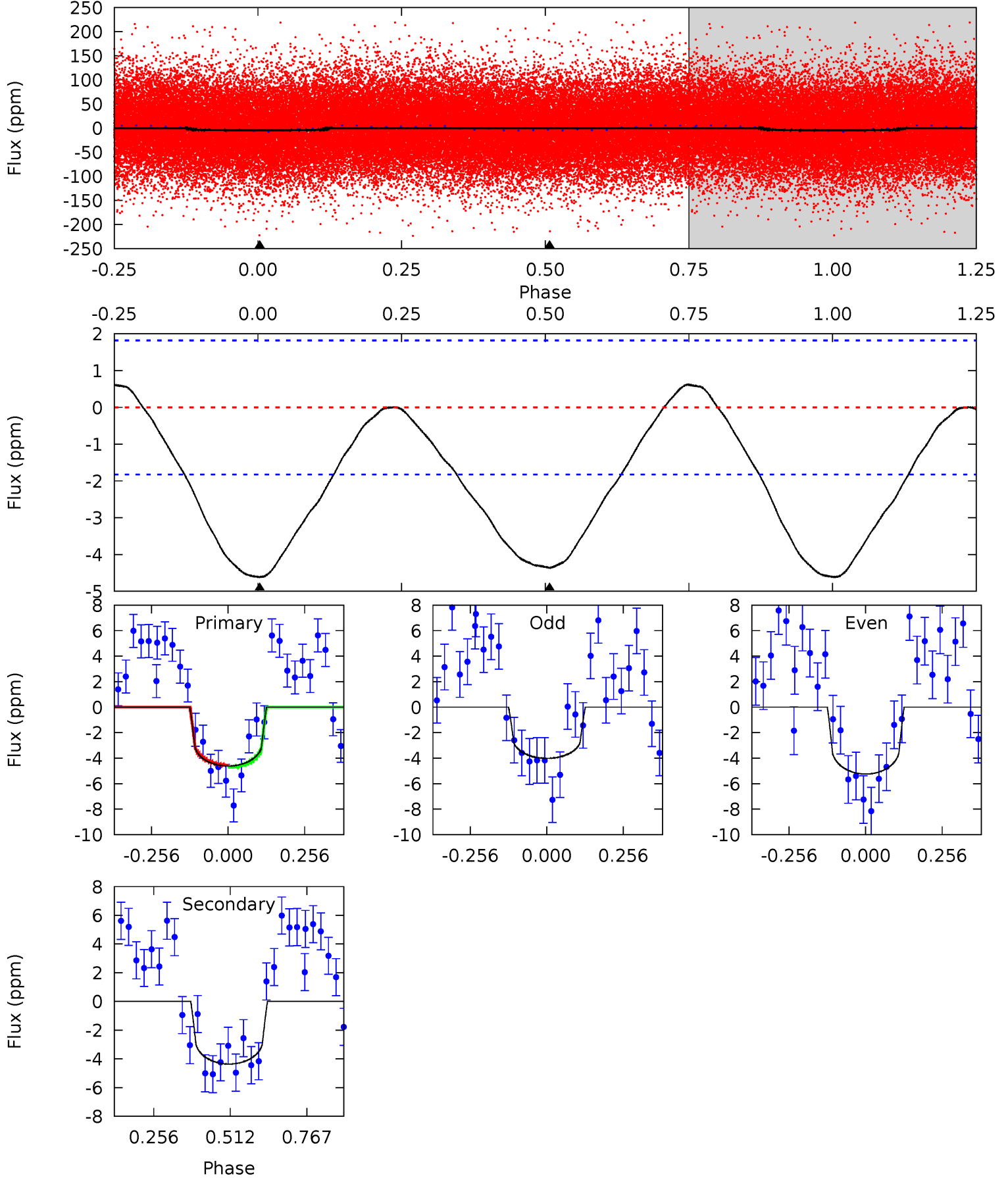
TCE 011912764-01 P= 1.158806 Days $T_0=132.569123$ (BKJD)



DV Model-Shift Uniqueness Test

011912764-01, P = 1.158775 Days, E = 131.430274 Days

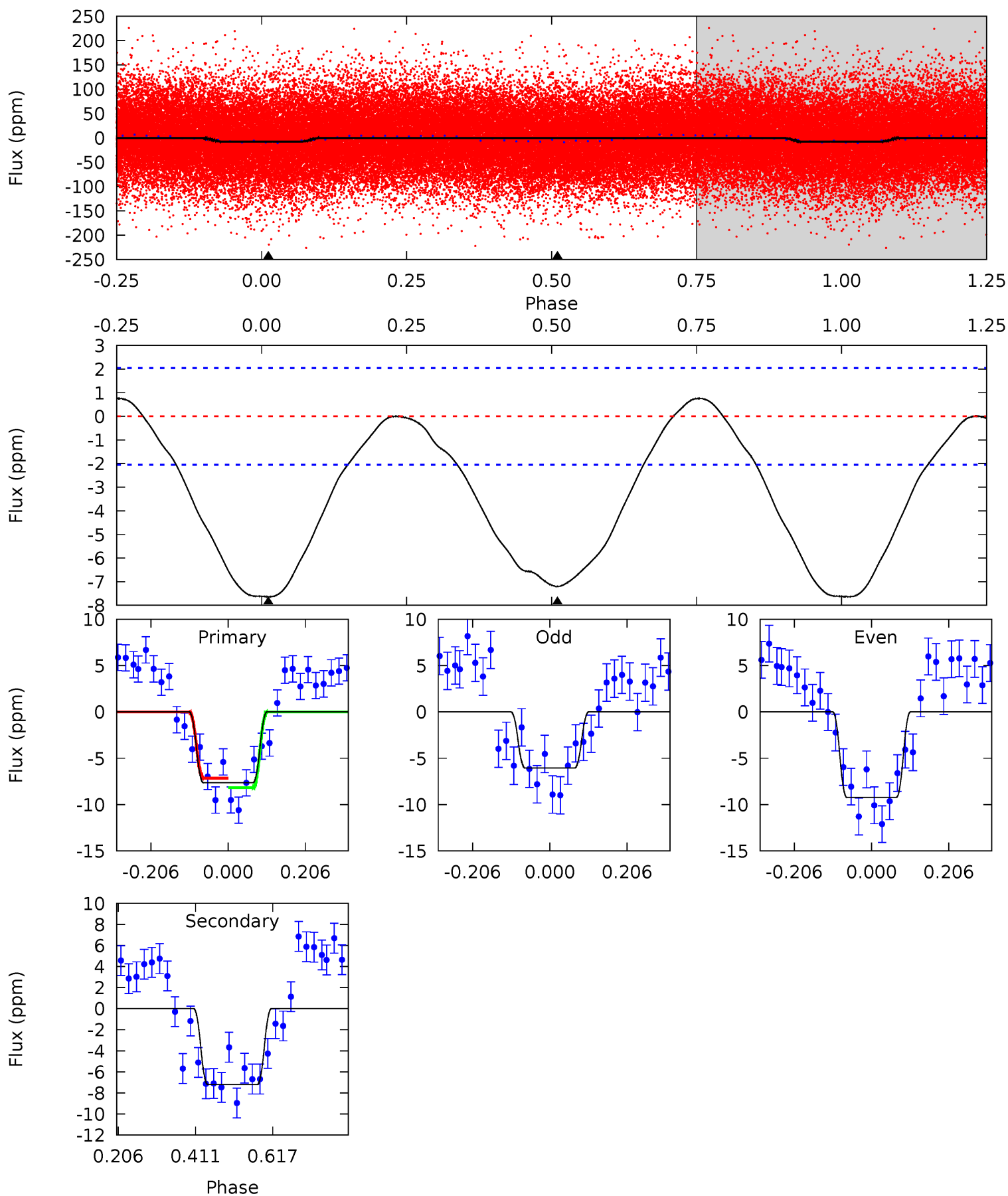
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.0	10.4	0	0	4.36	1.14	0.97	11.0	11.0	10.4	10.4	1.47	1.06	0.12	0.20



Alt Model-Shift Uniqueness Test

011912764-01, P = 1.158806 Days, E = 131.410317 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.5	15.5	0	0	4.41	1.27	1.12	16.5	16.5	15.5	15.5	3.39	1.02	0.09	1.09



Stellar Parameters For KIC 011912764

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7696^{+213}_{-347}	$3.729^{+0.392}_{-0.098}$	$0.210^{+0.150}_{-0.400}$	$3.392^{+0.680}_{-1.474}$	$2.248^{+0.267}_{-0.624}$	$0.081^{+0.277}_{-0.029}$
	+3%/-5%	+11%/-3%	+71%/-190%	+20%/-43%	+12%/-28%	+341%/-36%
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 011912764-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-4 ± 0	$0.81^{+0.25}_{-0.25}$	5001^{+374}_{-534}	6869^{+1183}_{-837}	$2.896^{+2.989}_{-1.172}$
Alt.	-7 ± 0	$0.99^{+0.28}_{-0.29}$	5030^{+355}_{-566}	7108^{+1123}_{-791}	$3.239^{+2.710}_{-1.253}$

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 $A_{obs} \gg 1.0$

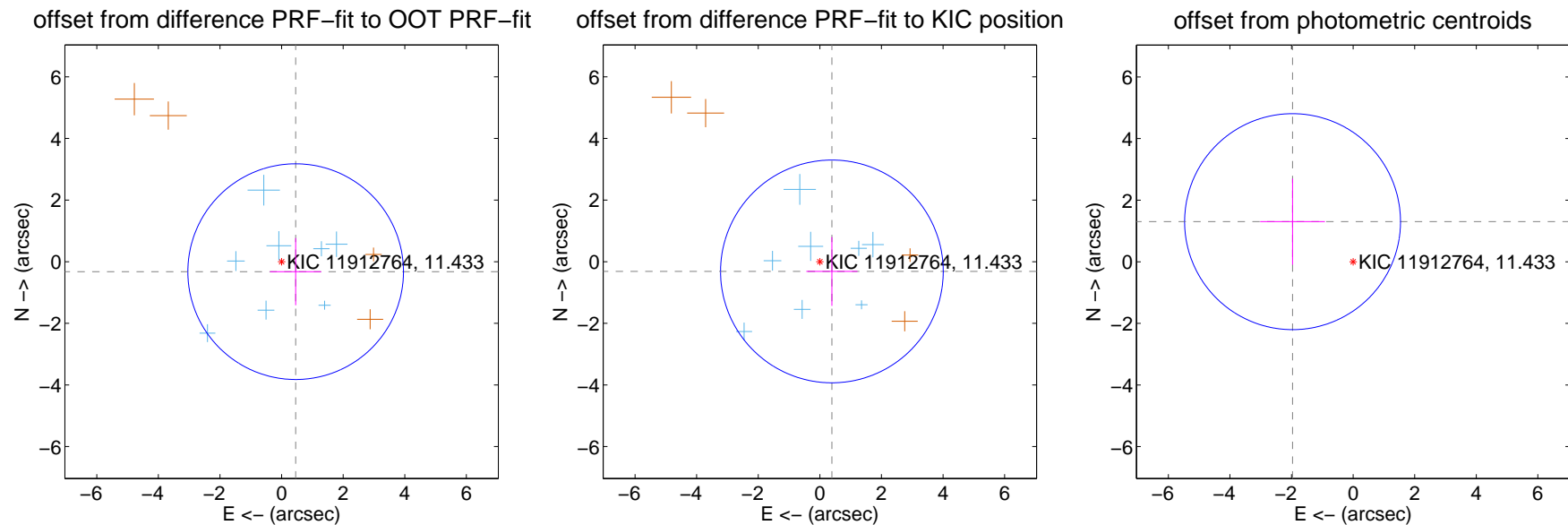
DV Centroid Data

Supplemental centroid analysis for 011912764-01. **Kepler magnitude: 11.43.** Transit SNR 9.86

There are 8 quarters with good PRF difference image offsets

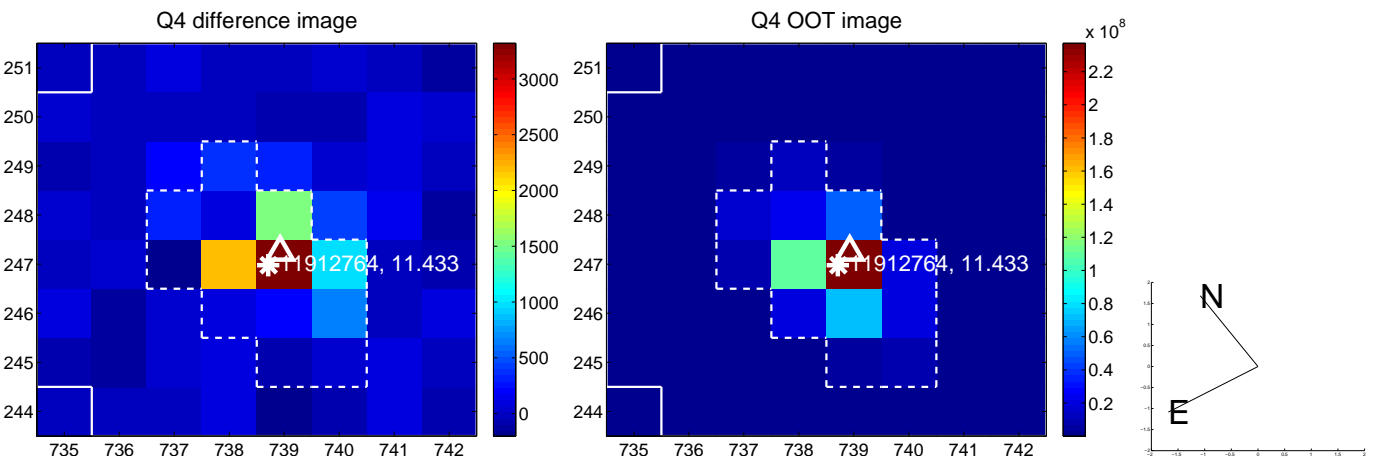
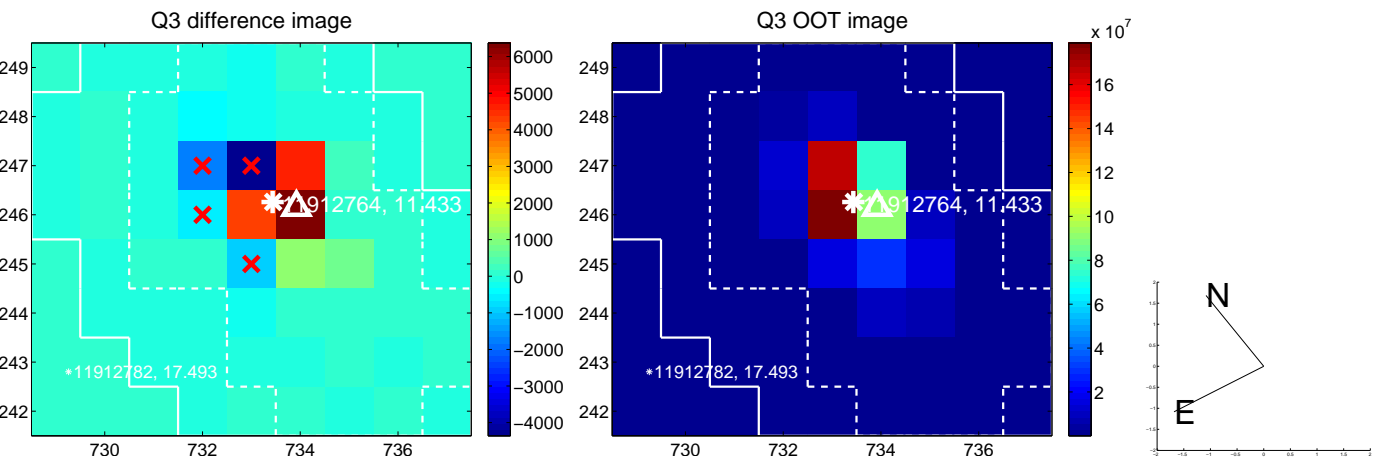
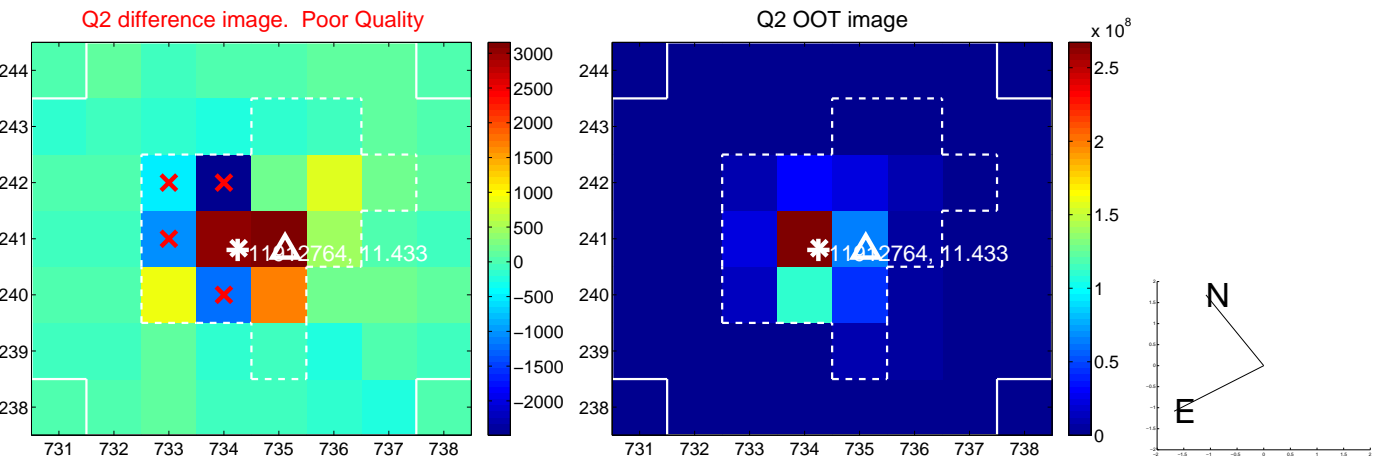
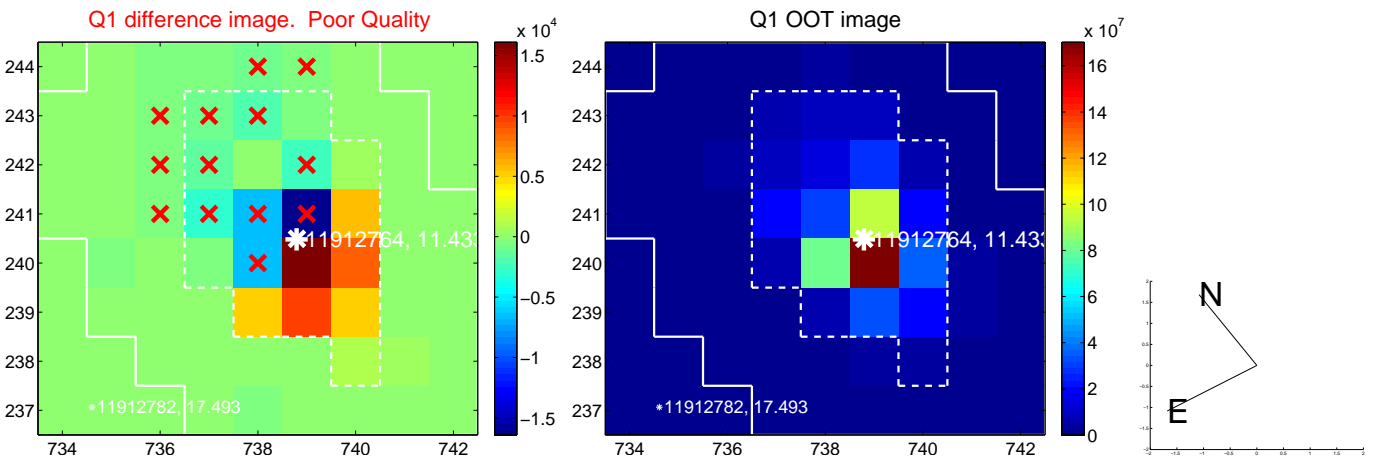
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.560 ± 1.167	0.48	-0.457 ± 0.830	-0.323 ± 1.089
PRF-fit source offset from KIC position	0.503 ± 1.205	0.42	-0.391 ± 0.829	-0.316 ± 1.118
photometric centroid source offset	2.36 ± 1.17	2.02	1.97 ± 1.05	1.30 ± 1.40

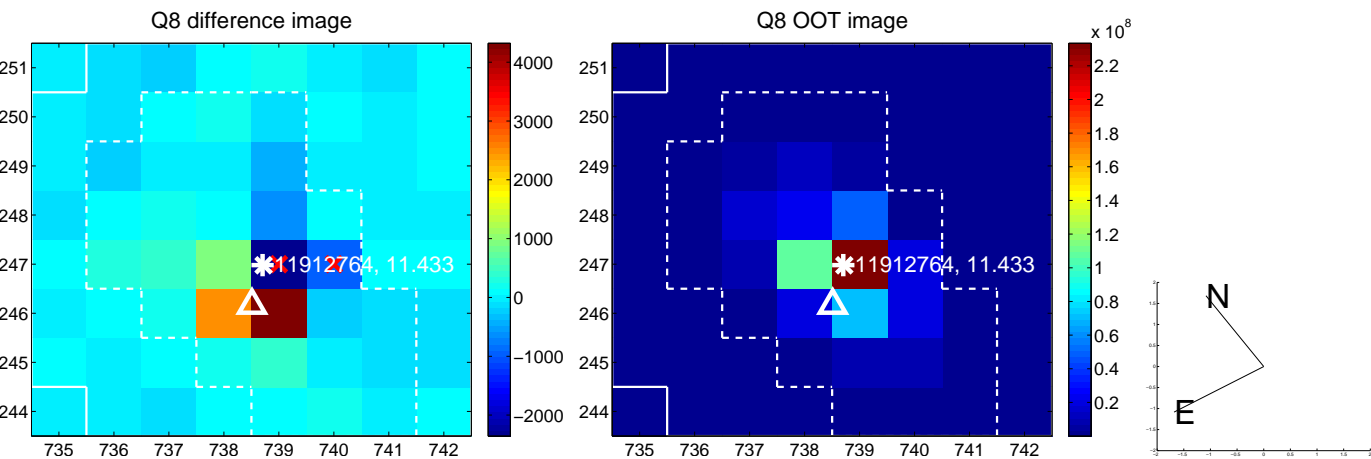
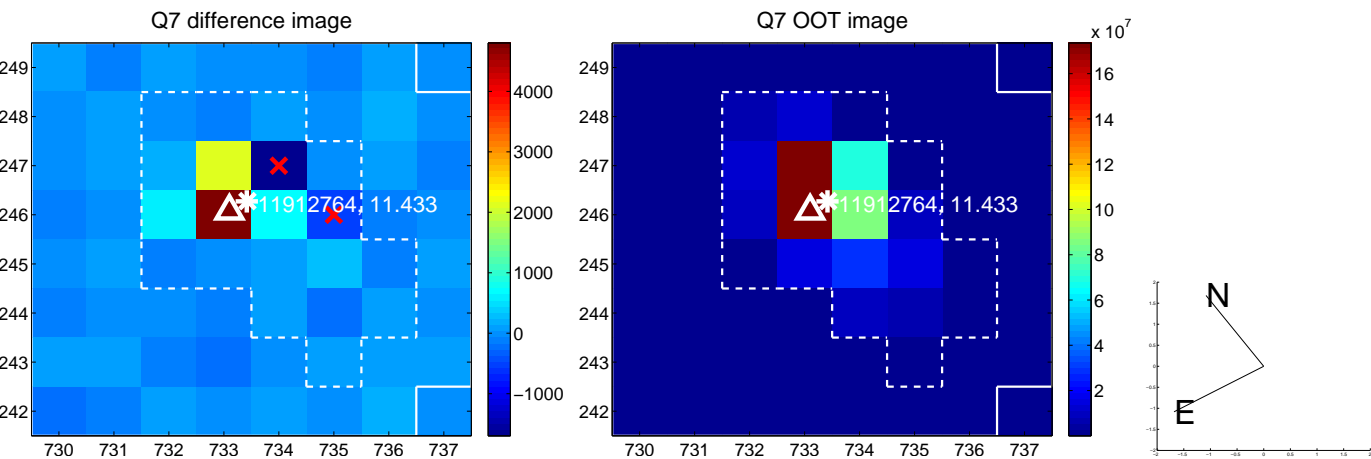
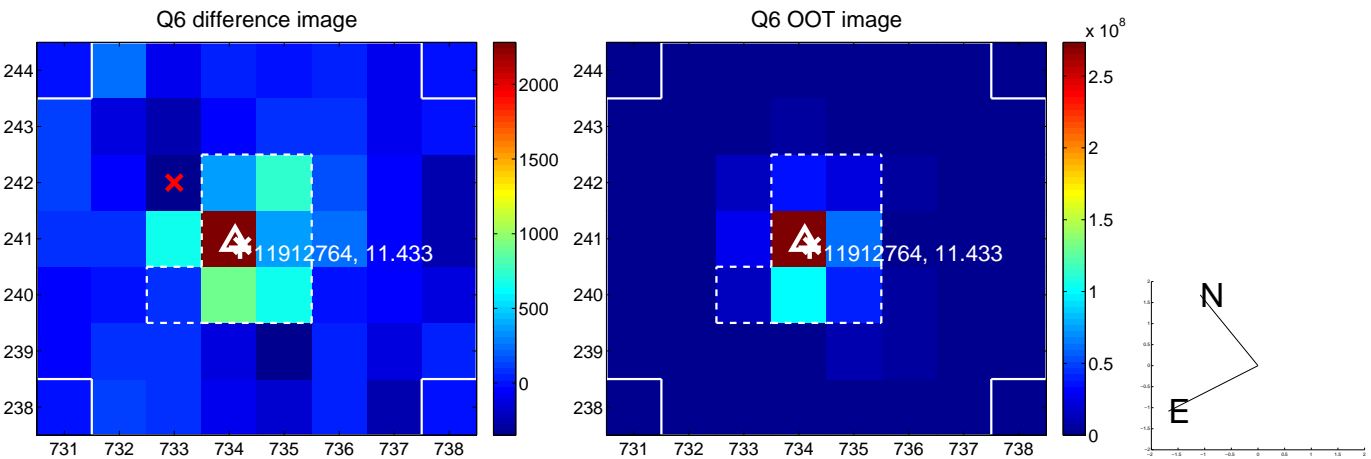
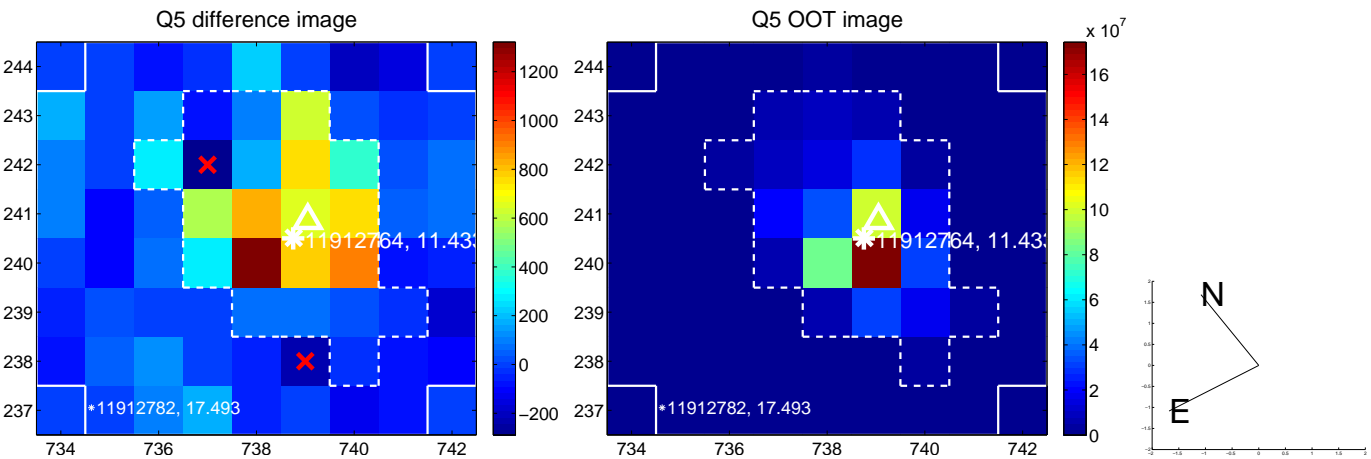


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

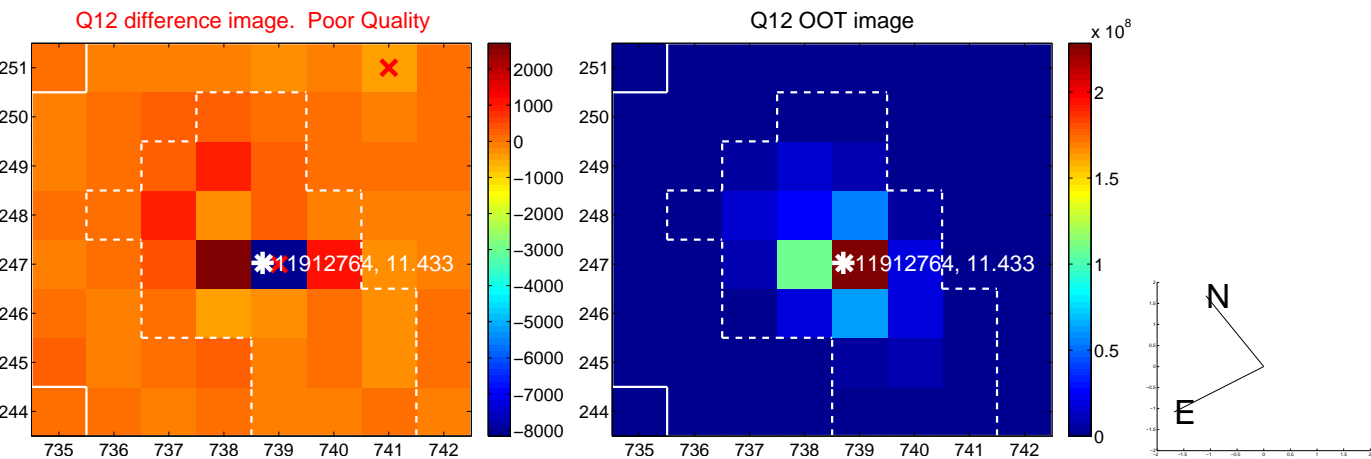
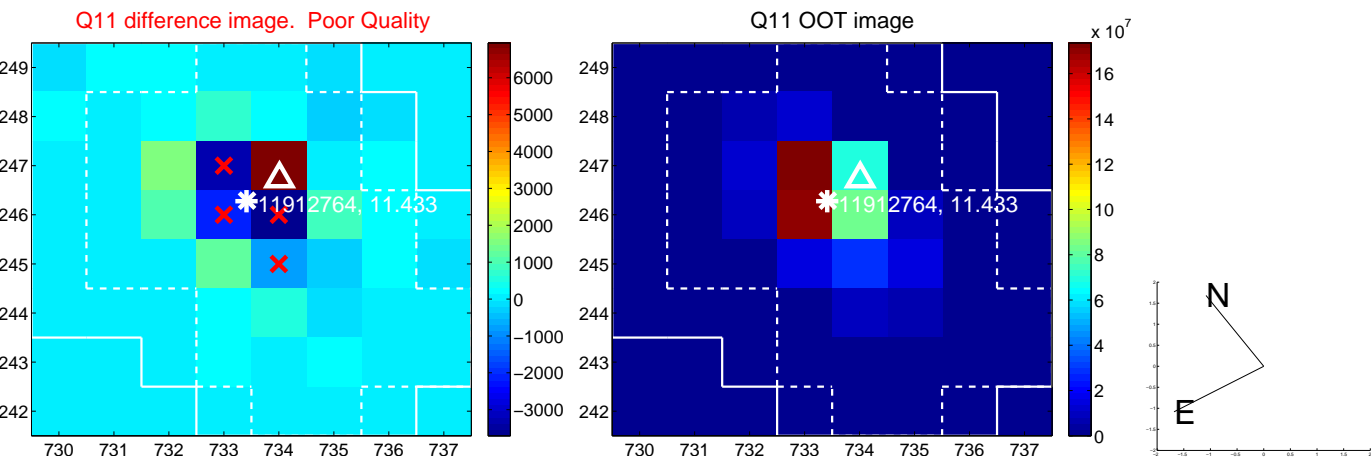
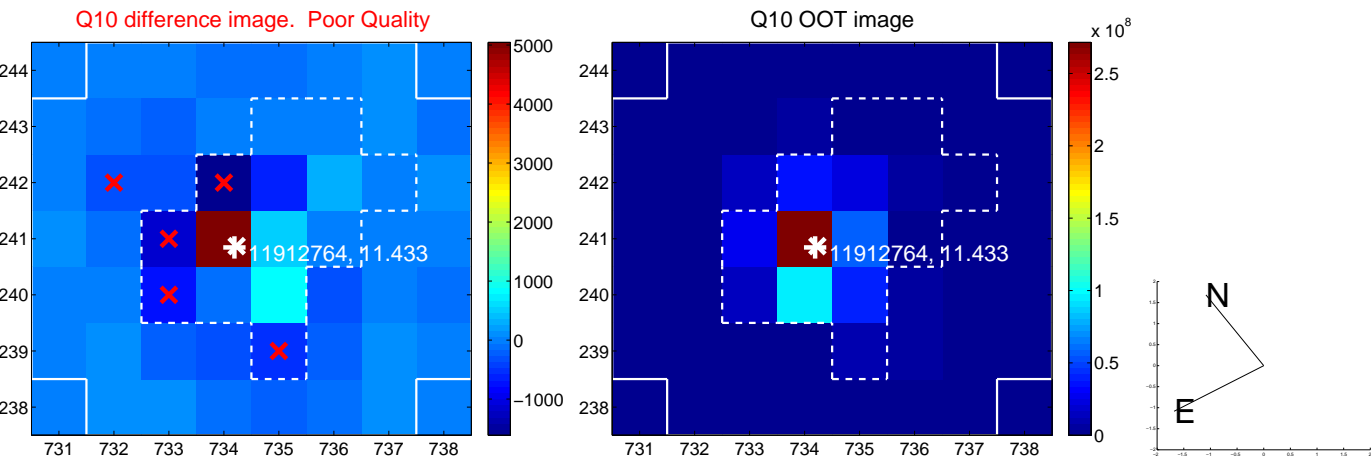
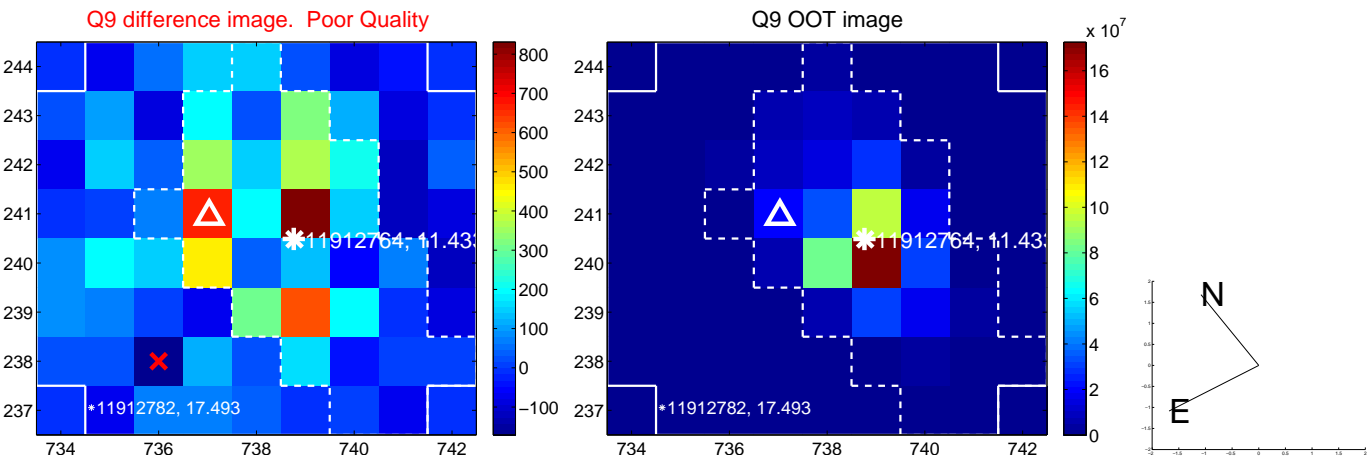
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



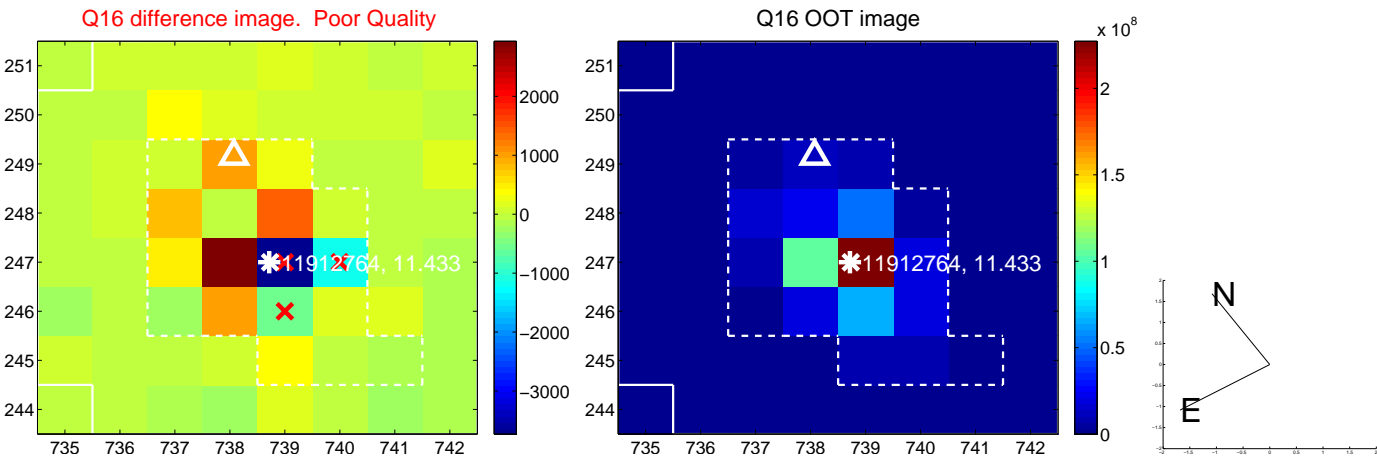
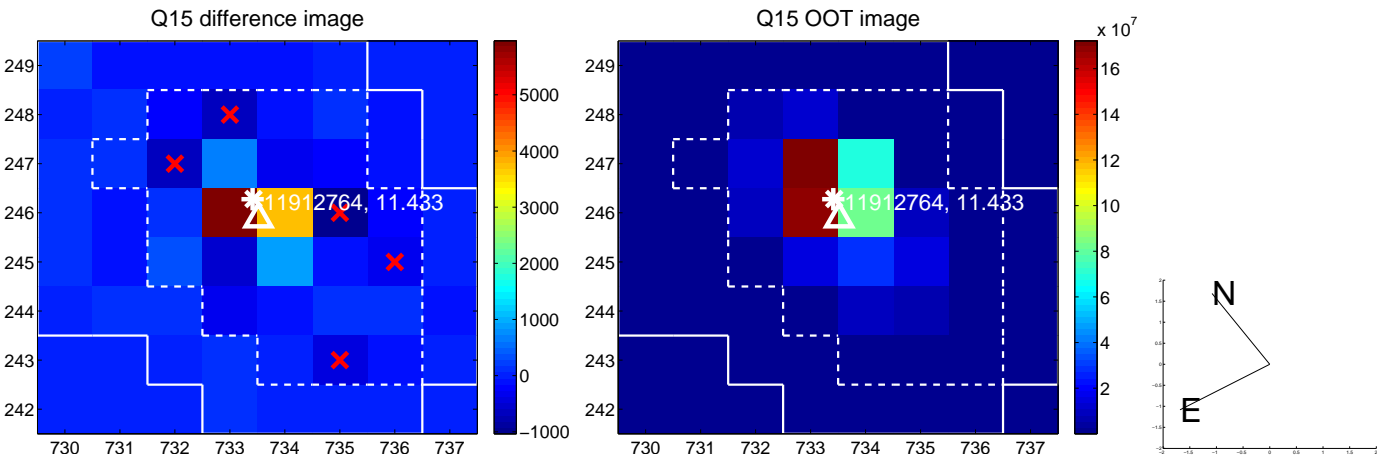
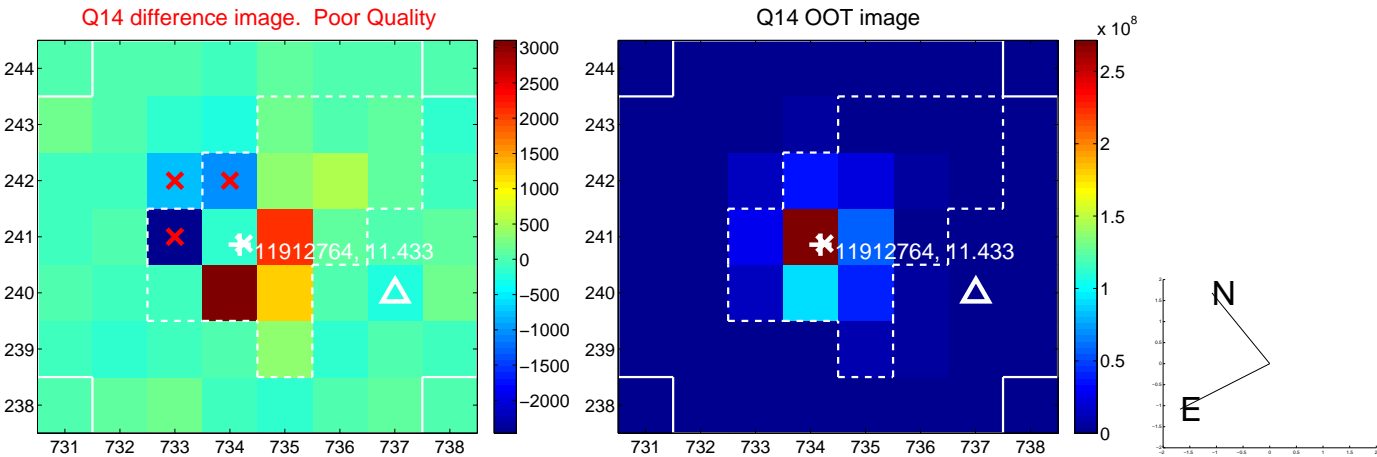
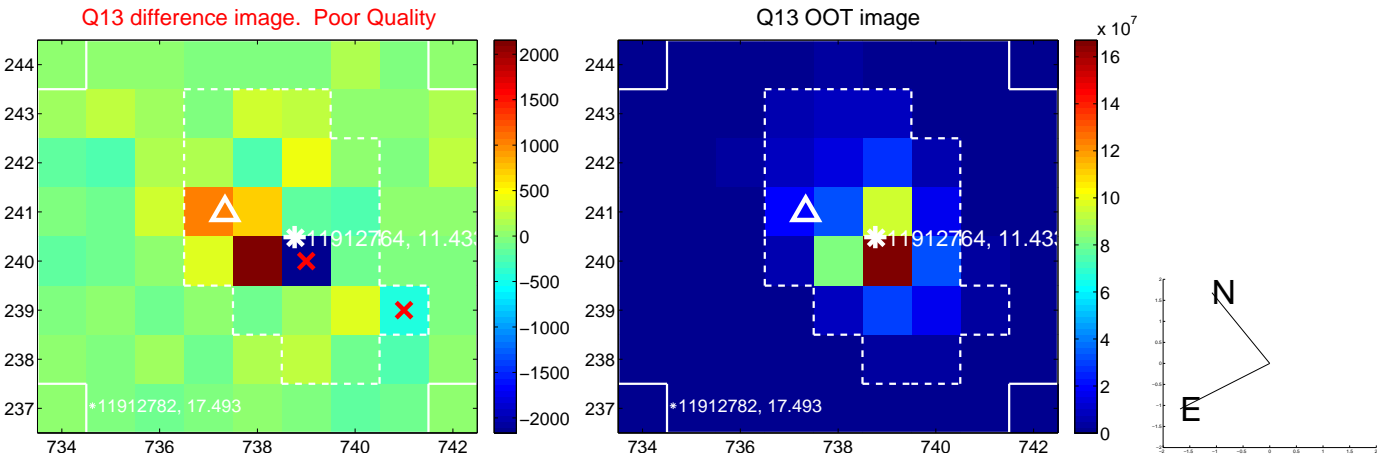
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



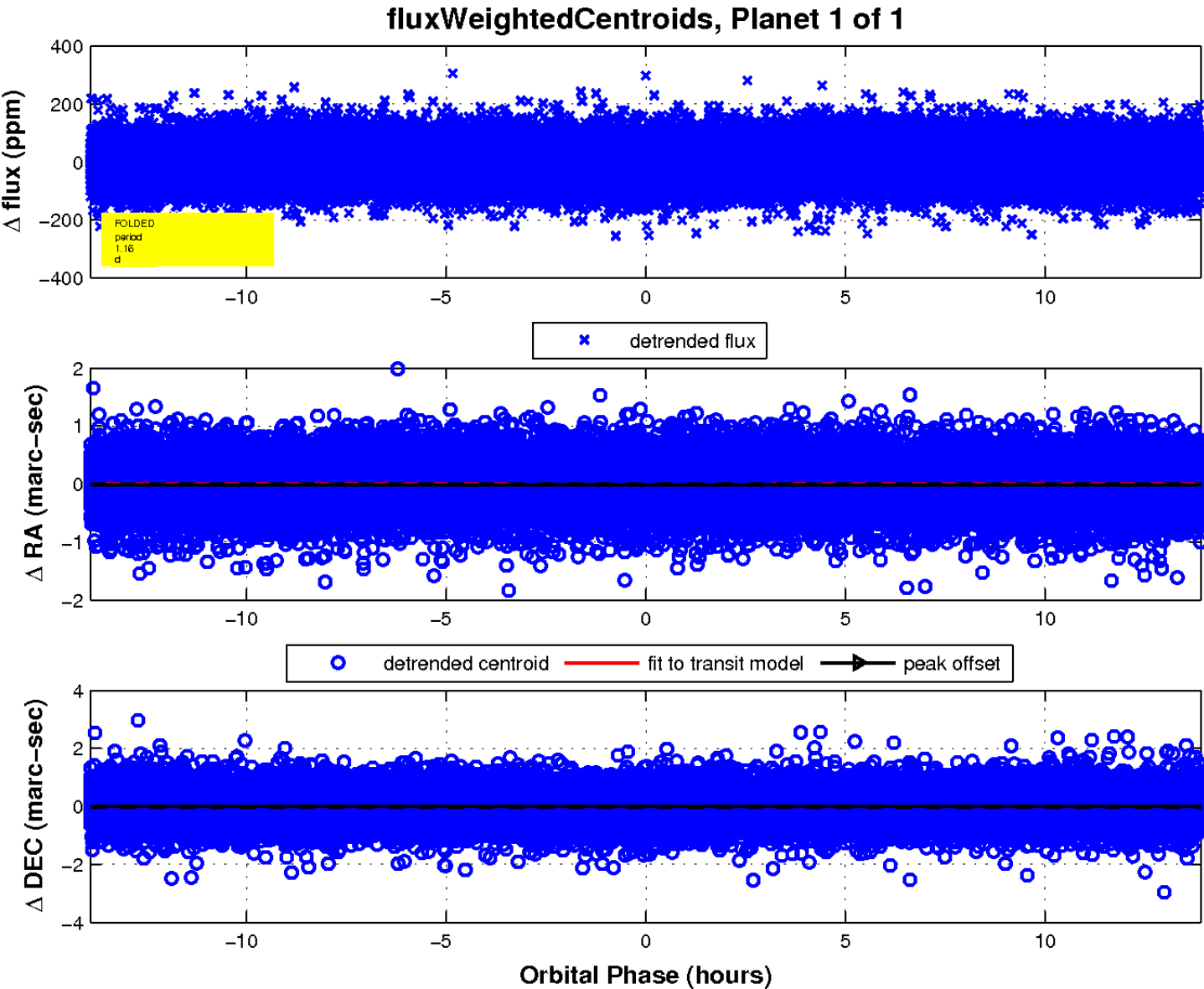
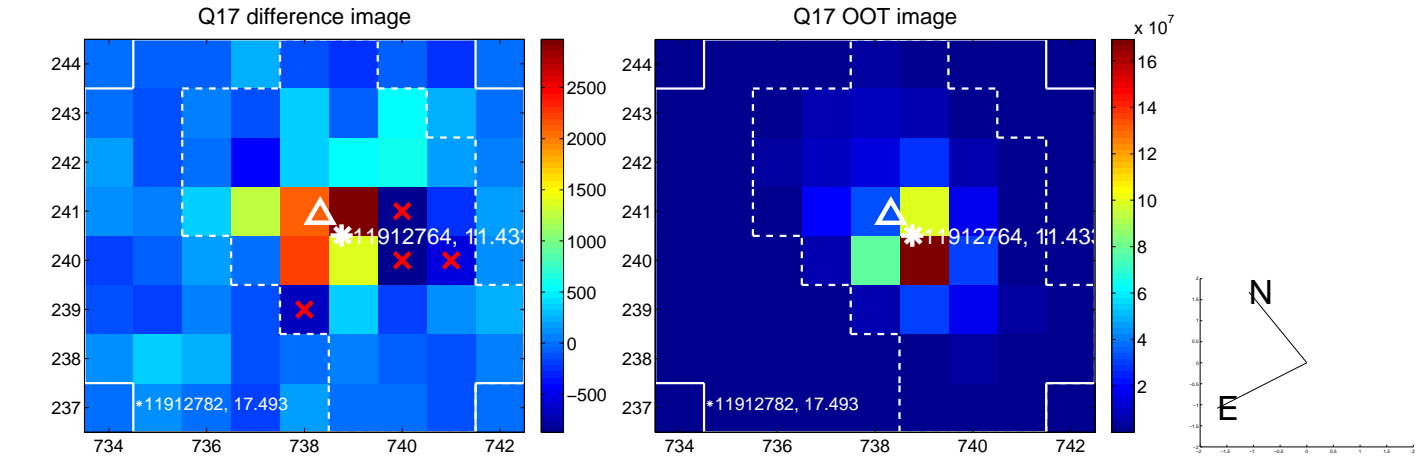
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UKIRT Image

