

KIC 011125764

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})
011125764-01	OBS	No	1.566866	132.518122	14.2	17.447	9.7	14.3	3.14	8209	1.20	35995.03

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011125764-01	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.

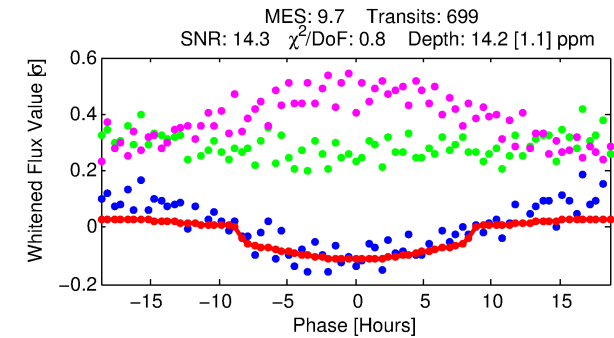
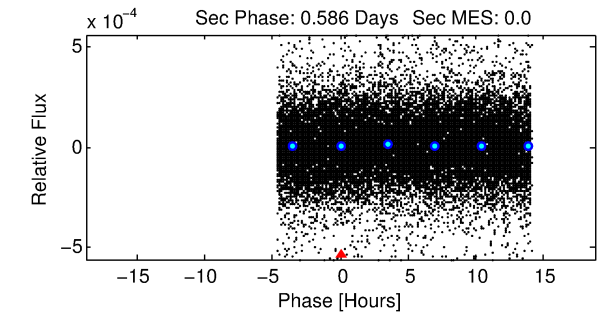
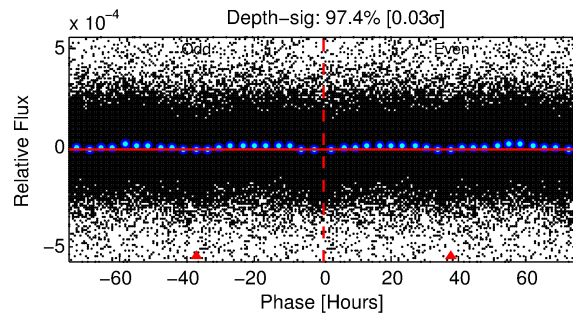
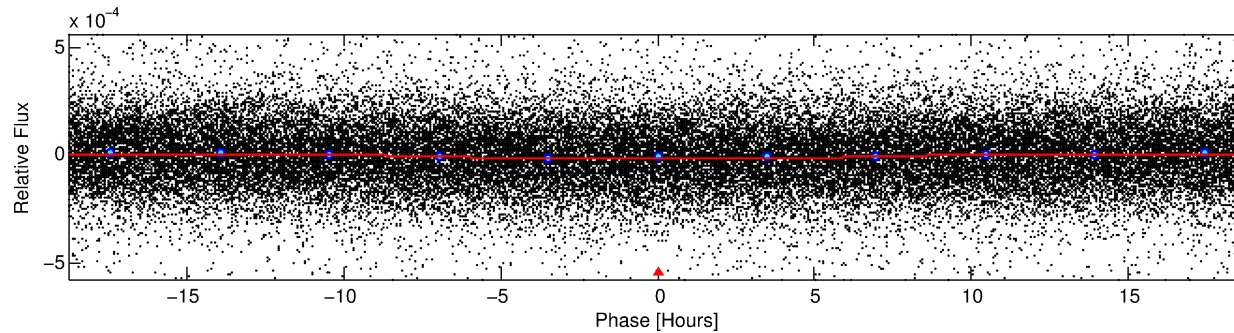
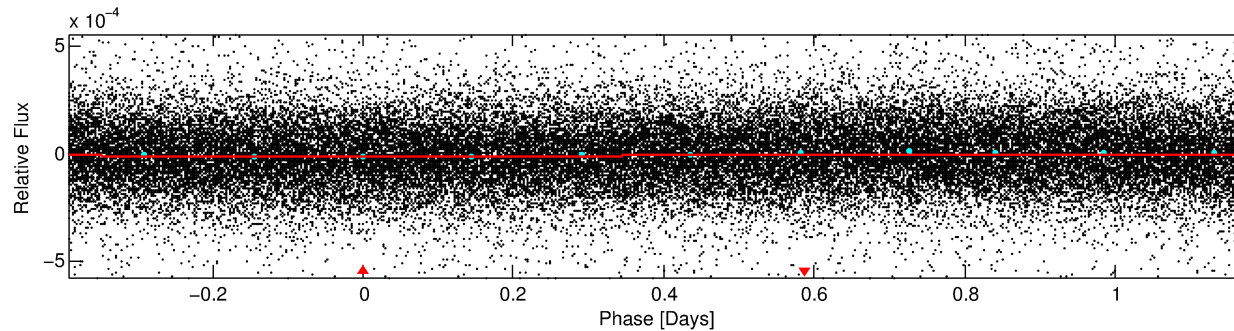
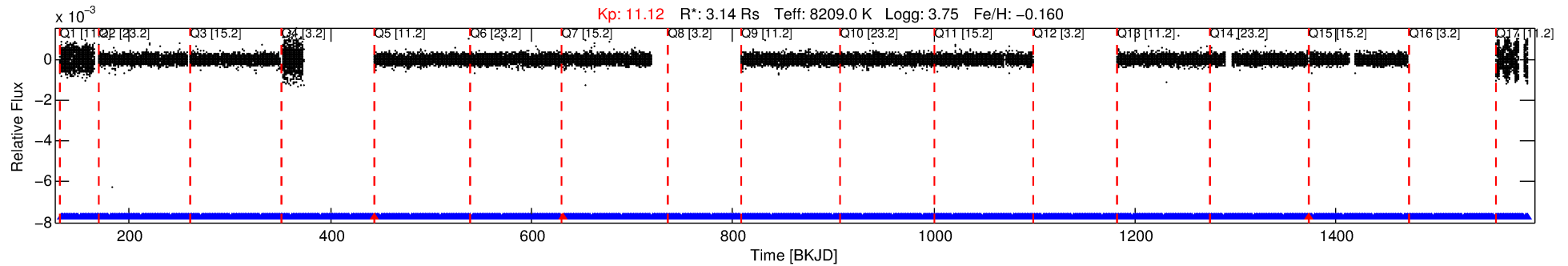
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011125764-01

No Significant Match Found

DV One-Page Summary

KIC: 11125764 Candidate: 1 of 1 Period: 1.567 d



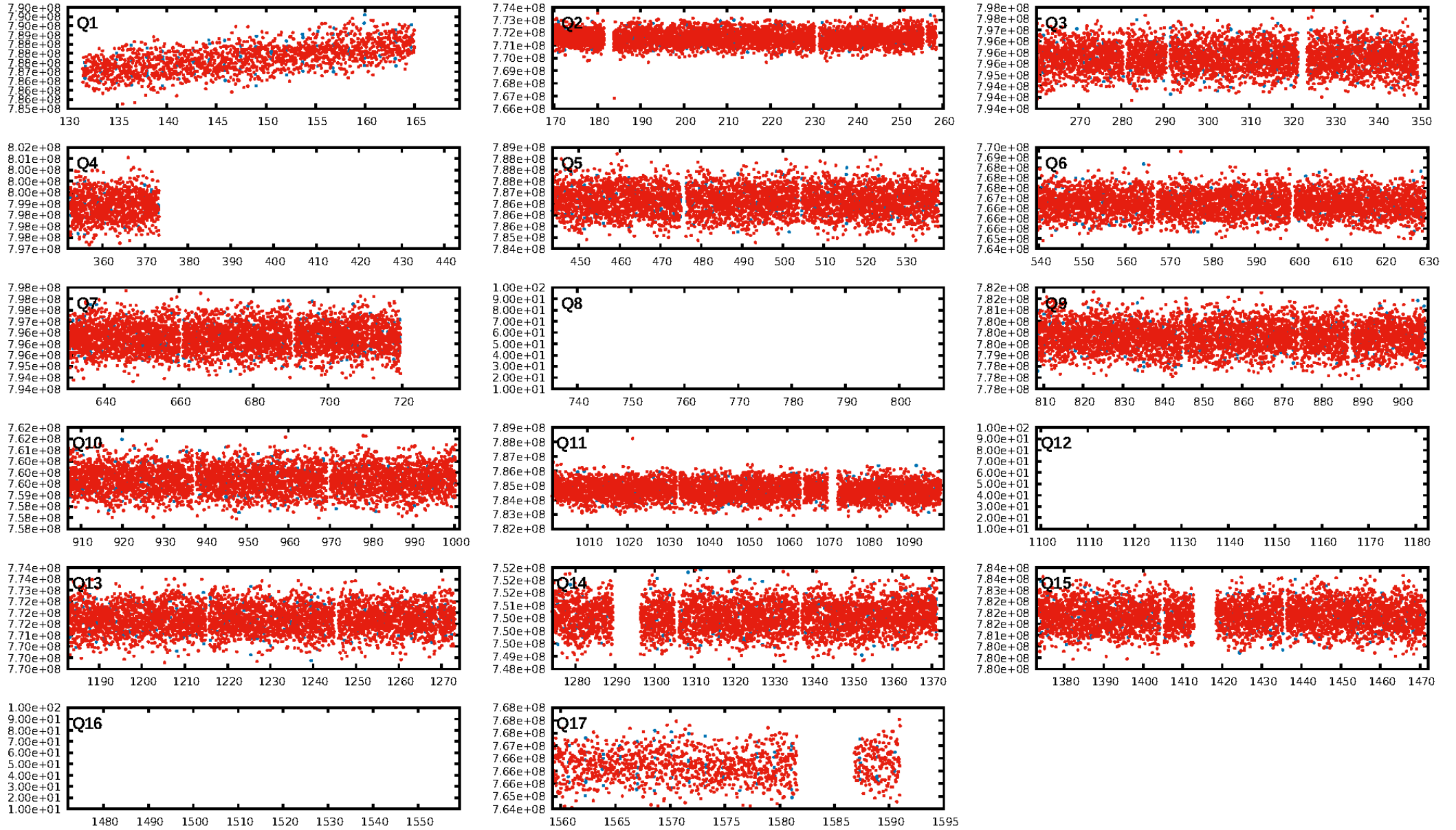
DV Fit Results:

Period = 1.56687 [0.00003] d
Epoch = 132.5181 [0.0121] BKJD
Rp/R* = 0.0035 [0.0021]
a/R* = 1.01 [0.07]
b = 0.01 [629.85]
Seff = 35995.03 [27673.10]
Teq = 3512 [675] K
Rp = 1.20 [0.92] Re
a = 0.0334 [0.0154] AU
Ag = N/A
Teffp = N/A

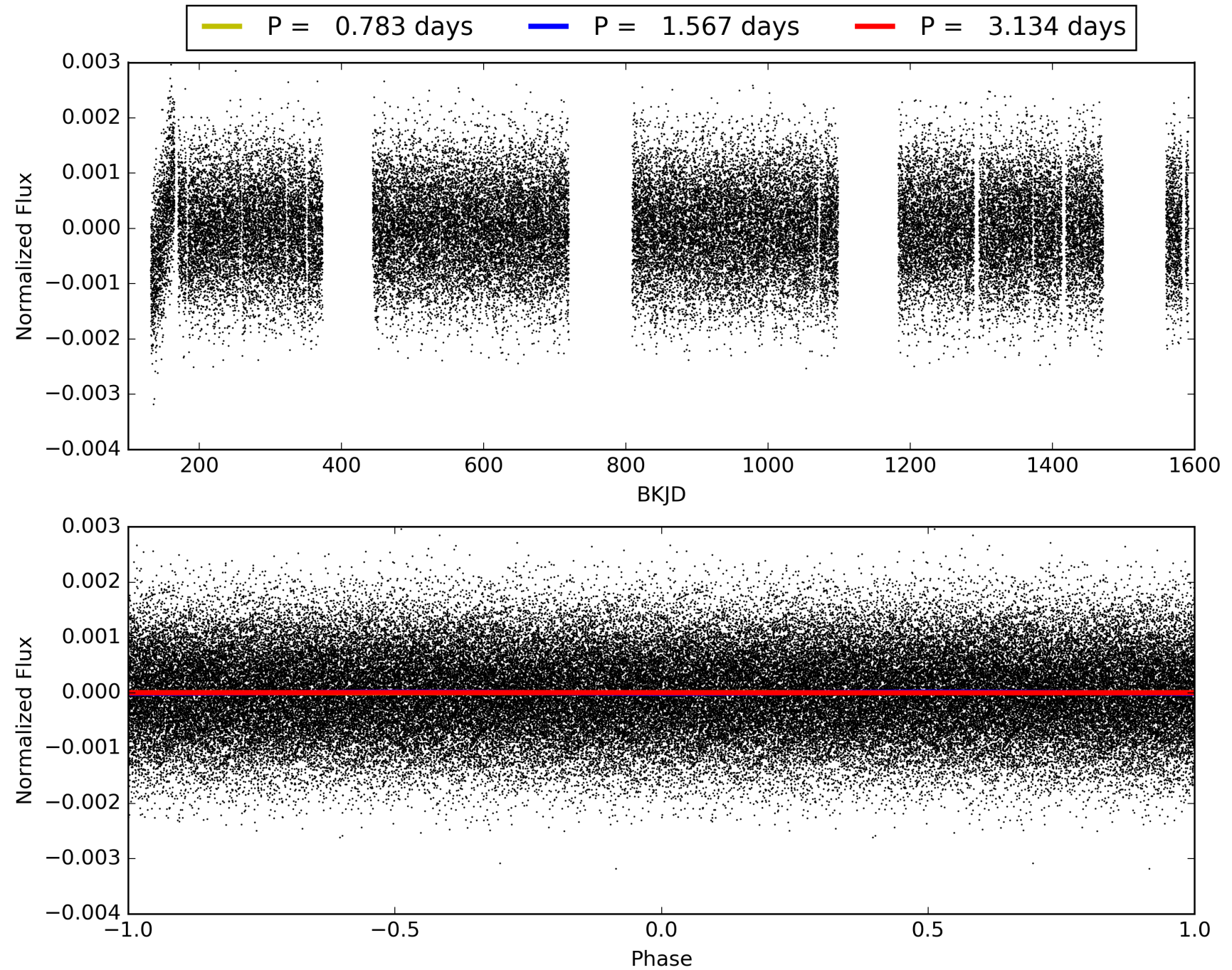
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [643/646]
GhostDiagnostic-chr: 1.742
Centroid-sig: 18.7%
Centroid-so: 0.862 arcsec [1.14 σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [14/14]

TCE 011125764-01, PDC Light Curves

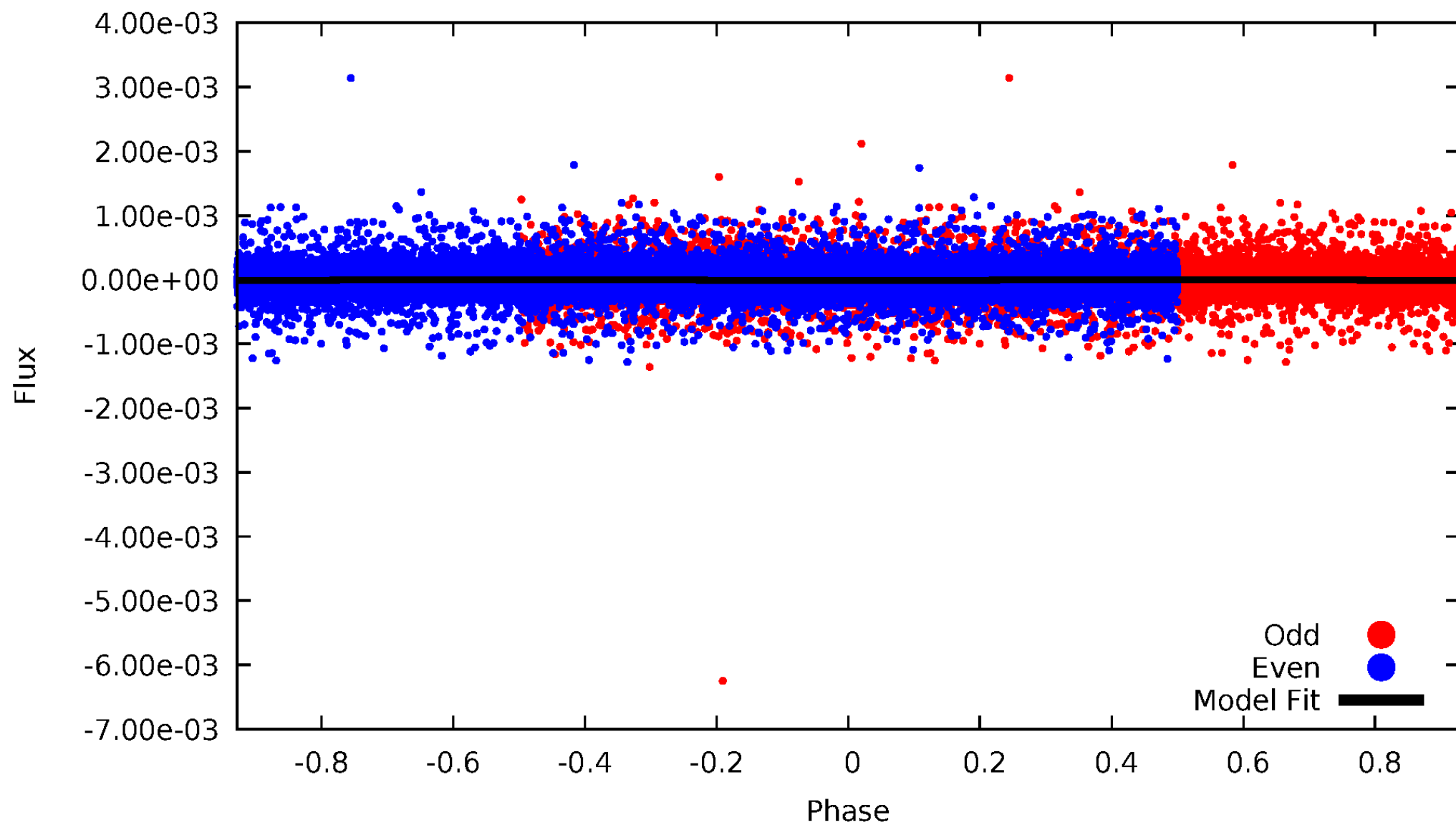


TCE 011125764-01



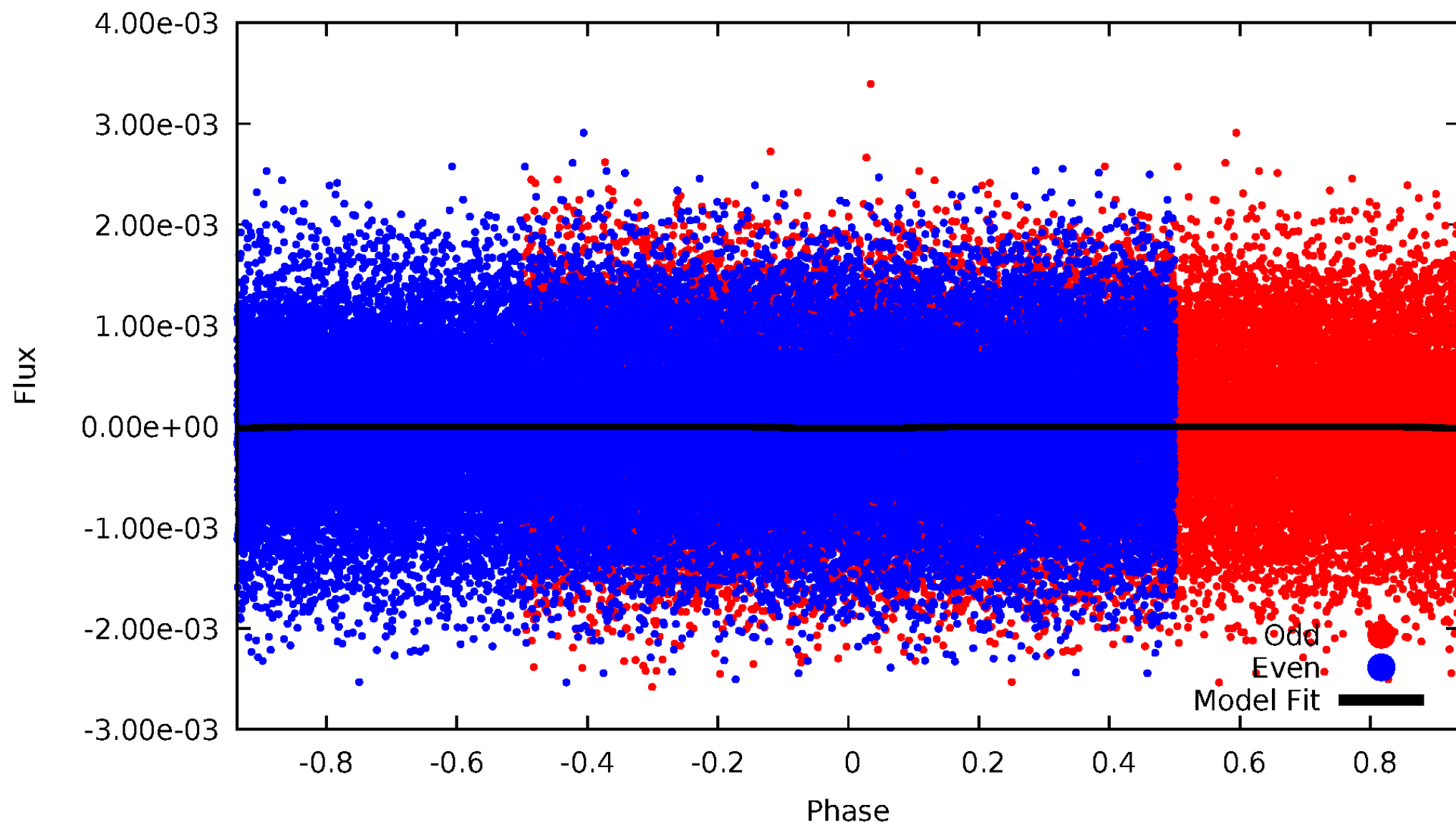
DV Odd/Even

TCE 011125764-01



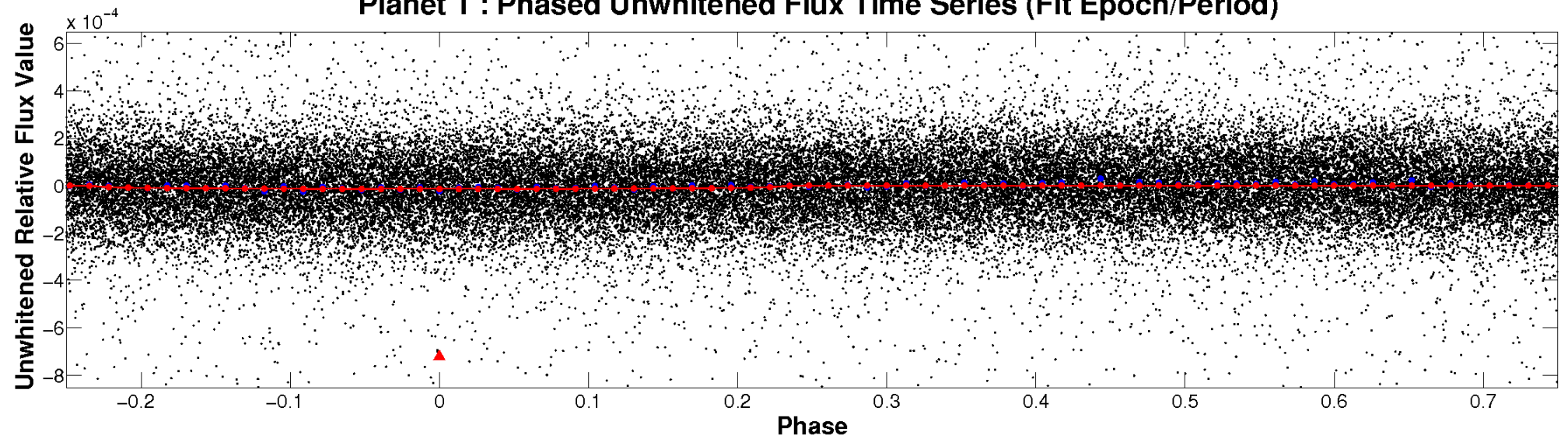
ALT Odd/Even

TCE 011125764-01

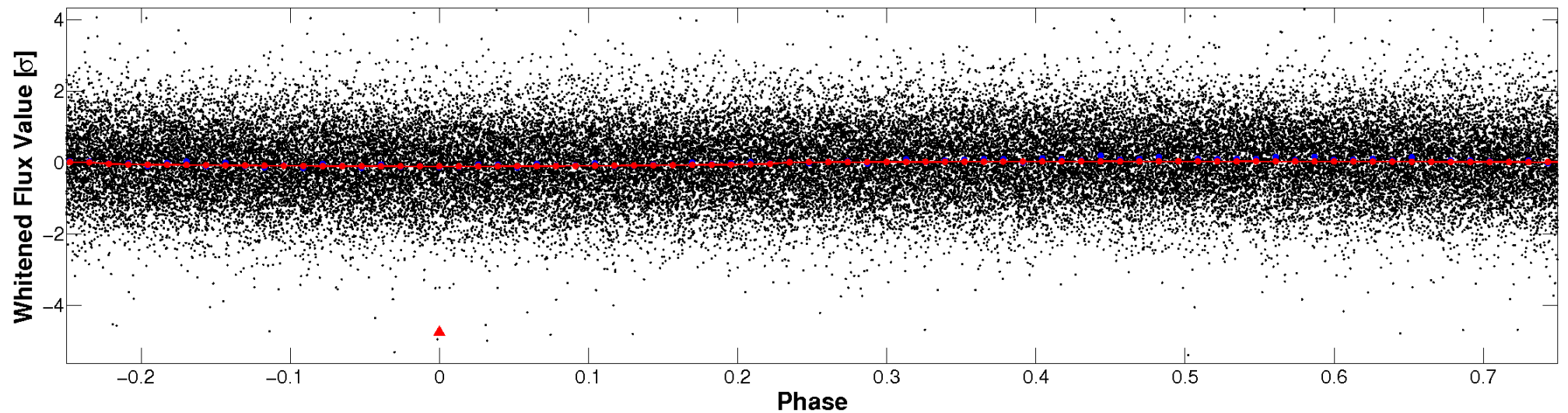


Non-Whitened Vs. Whitened Light Curve

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

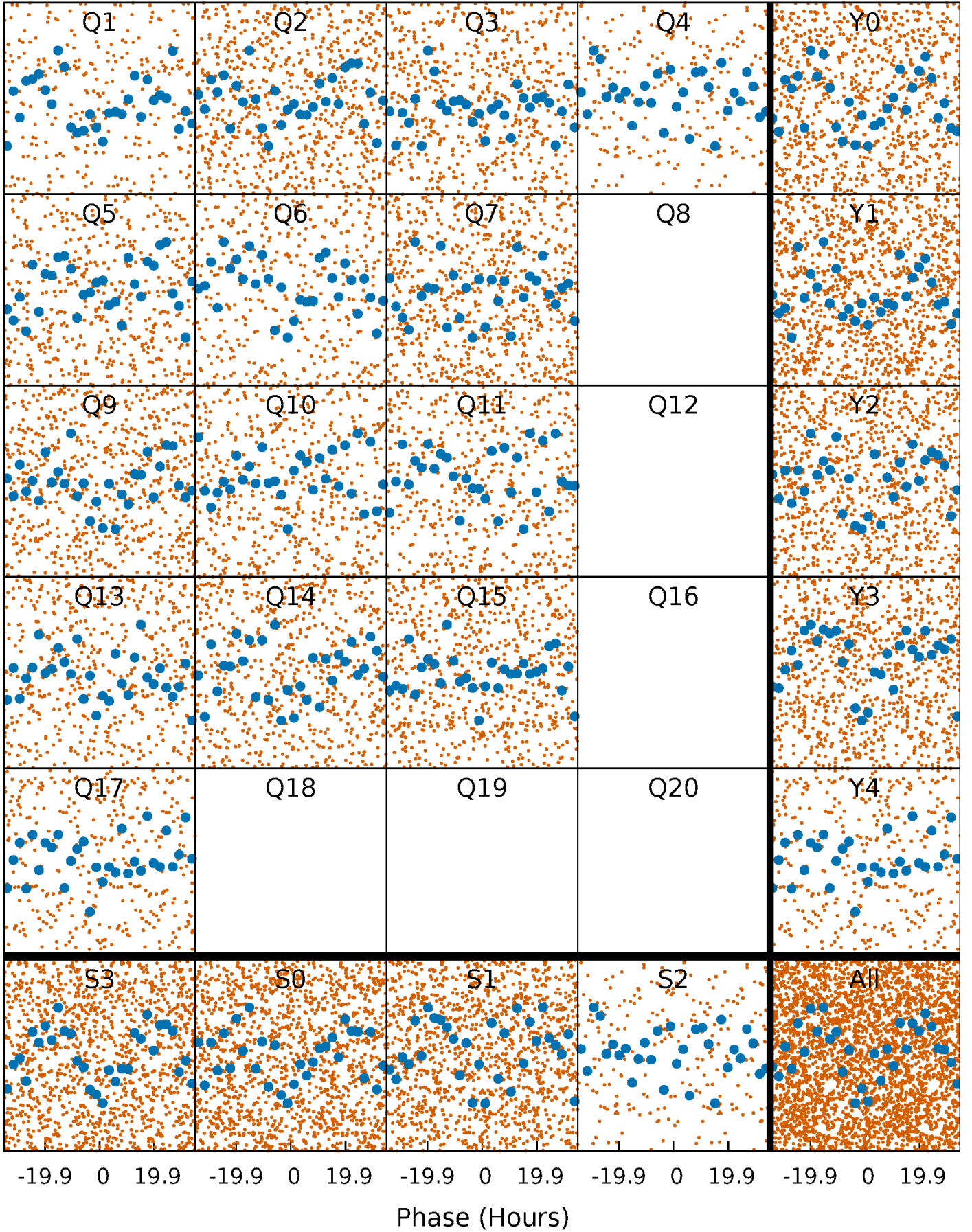


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



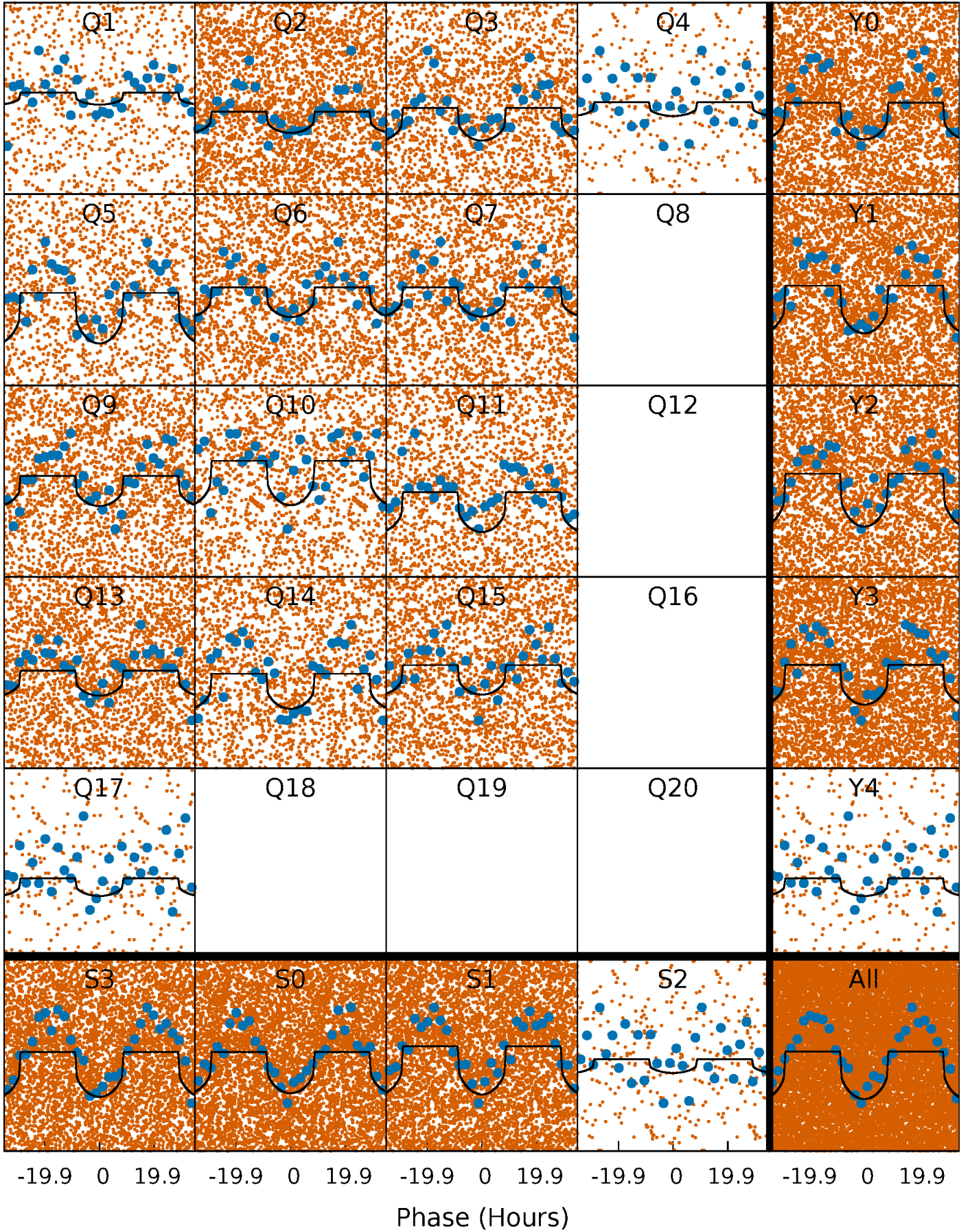
PDC Quarter-Phased Transit Curves

TCE 011125764-01 P= 1.566866 Days $T_0=132.518122$ (BKJD)



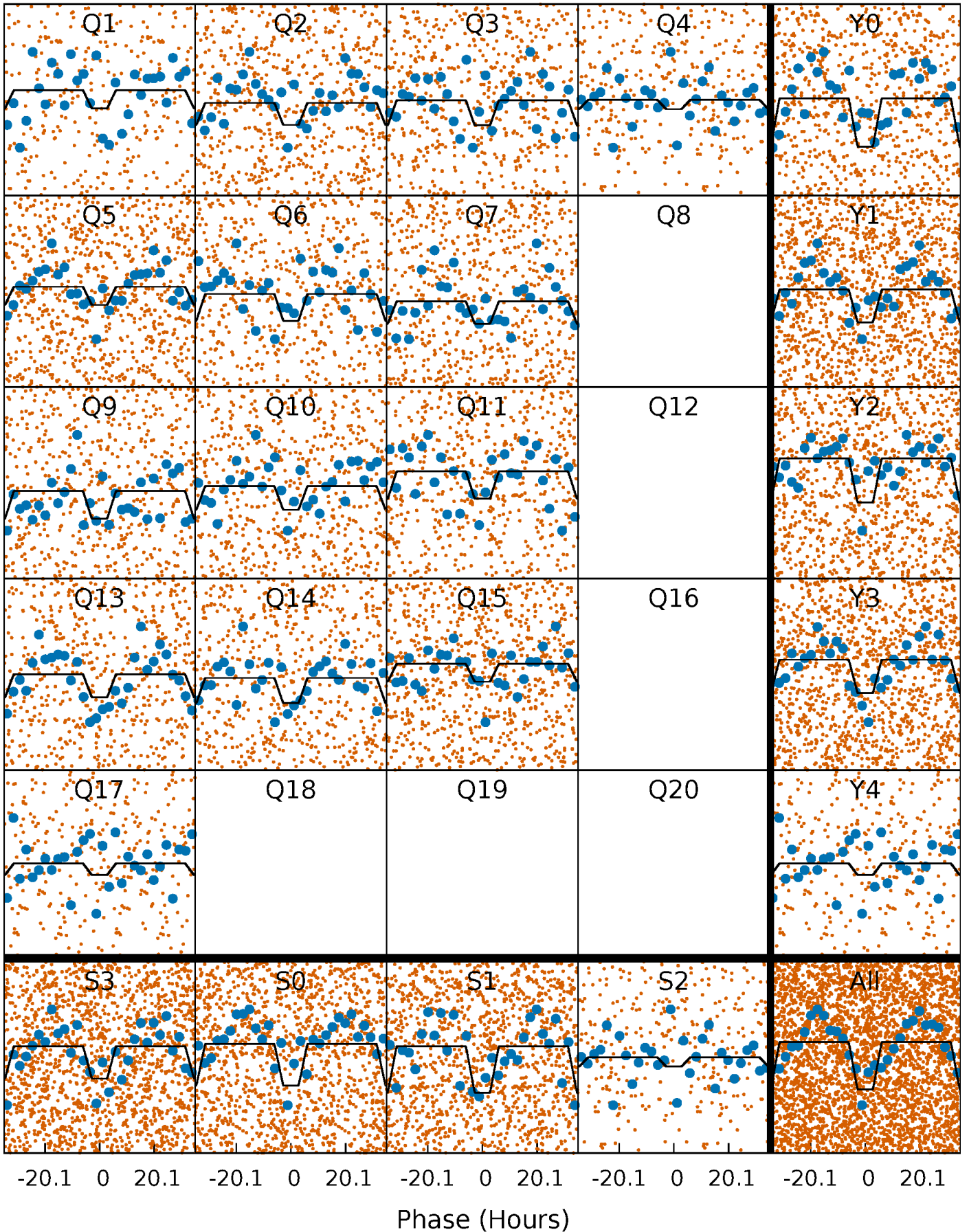
DV Quarter-Phased Transit Curves

TCE 011125764-01 P= 1.566866 Days $T_0=132.518122$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

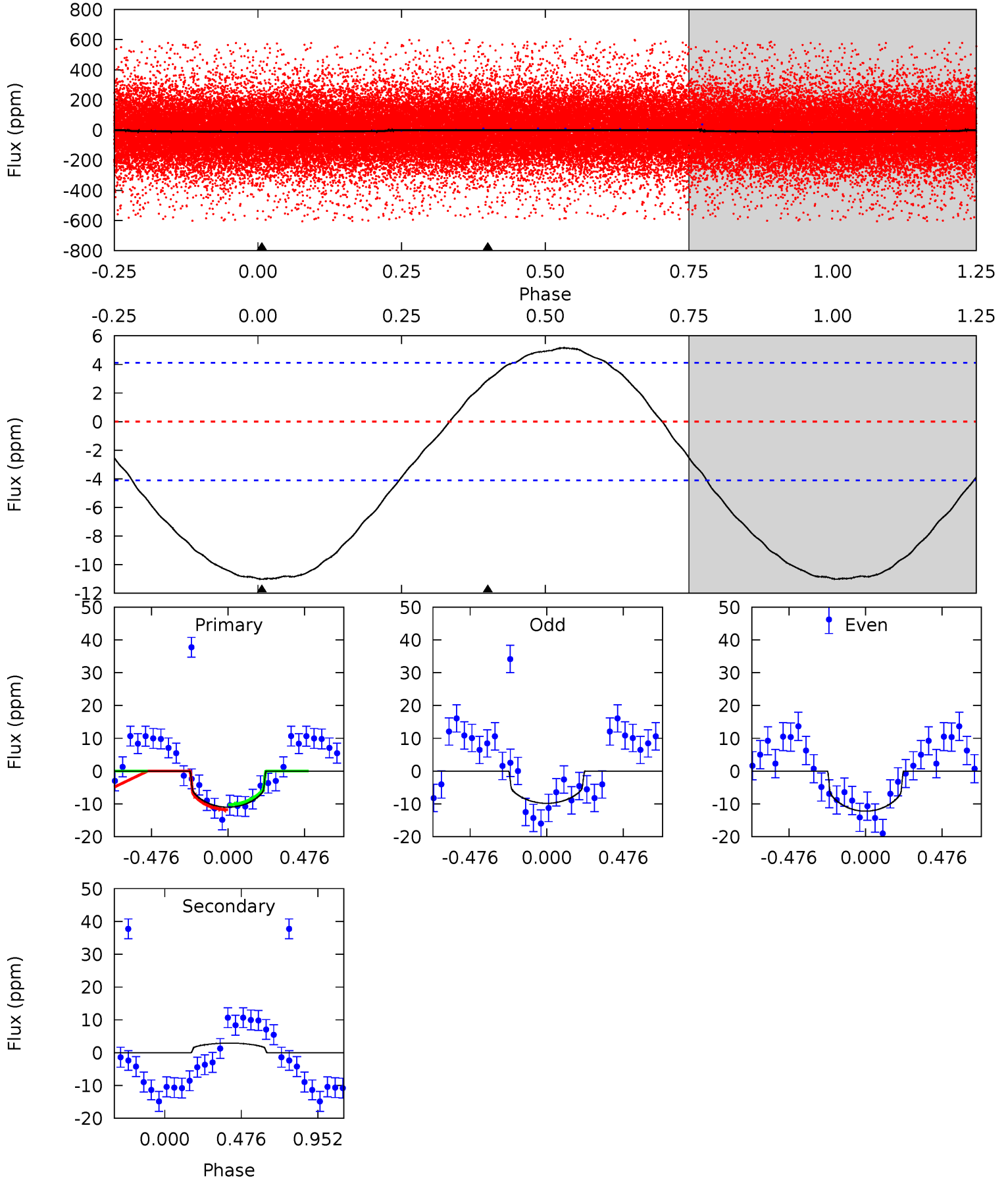
TCE 011125764-01 P= 1.566840 Days $T_0=132.503298$ (BKJD)



DV Model-Shift Uniqueness Test

011125764-01, P = 1.566866 Days, E = 130.951256 Days

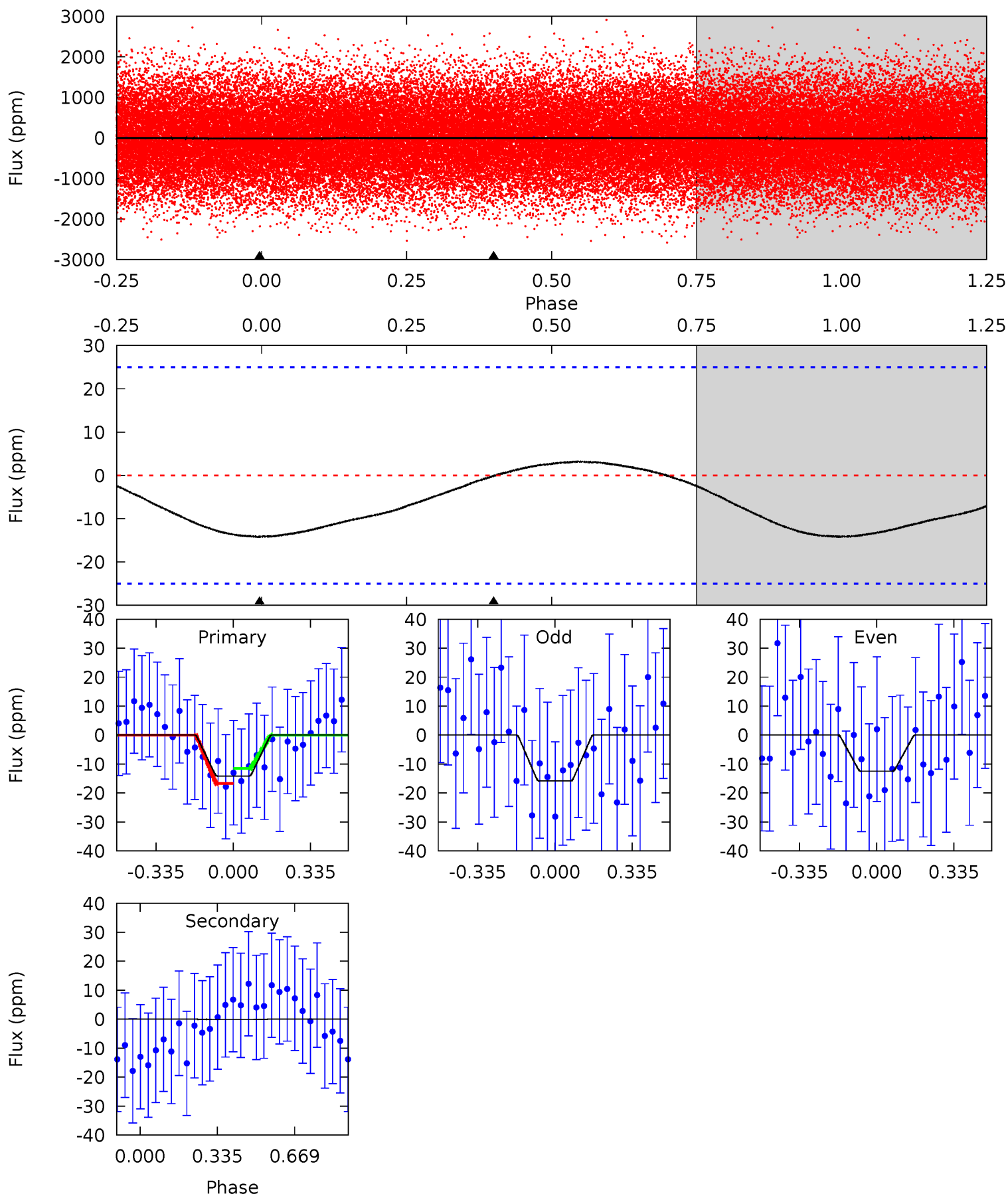
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.3	-2.99	0	0	4.23	0.71	1.60	11.3	11.3	-2.99	-2.99	1.24	0.97	0.32	0.81



Alt Model-Shift Uniqueness Test

011125764-01, P = 1.566840 Days, E = 130.936458 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.43	0.02	0	0	4.30	0.96	0.20	2.43	2.43	0.02	0.02	0.29	0.99	0.18	0.45



Stellar Parameters For KIC 011125764

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8209^{+226}_{-368}	$3.750^{+0.442}_{-0.078}$	$-0.160^{+0.200}_{-0.350}$	$3.143^{+0.634}_{-1.480}$	$2.024^{+0.333}_{-0.499}$	$0.092^{+0.378}_{-0.031}$
	+3%/-4%	+12%/-2%	+125%/-219%	+20%/-47%	+16%/-25%	+411%/-34%
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 011125764-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	3 ± 1	$1.08^{+0.75}_{-0.57}$	4685^{+367}_{-587}	-5622^{+794}_{-2822}	$-1.418^{+0.924}_{-5.474}$
Alt.	-0 ± 6	$1.22^{+0.77}_{-0.57}$	4698^{+342}_{-581}	-3891^{+9949}_{-2846}	$0.040^{+2.792}_{-3.255}$

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

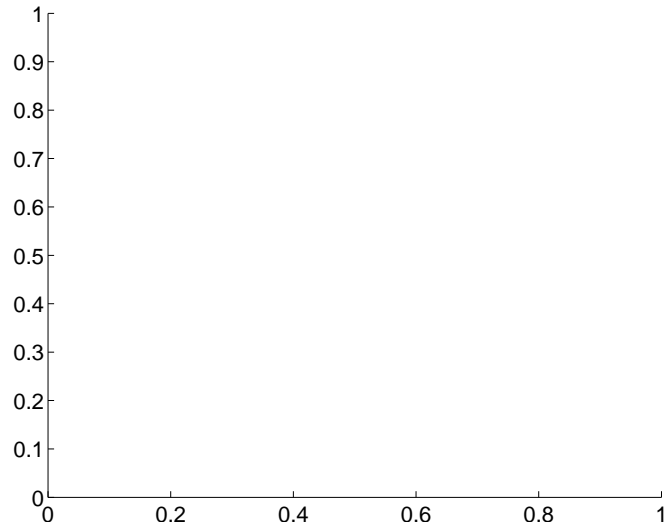
Supplemental centroid analysis for 011125764-01. **Kepler magnitude: 11.12.** Transit SNR 14.28

There are 0 quarters with good PRF difference image offsets

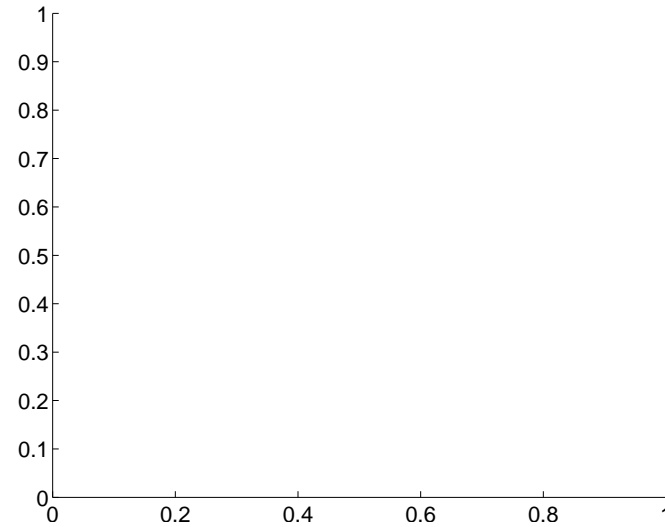
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	0.86 ± 0.76	1.14	-0.42 ± 0.60	-0.75 ± 0.80

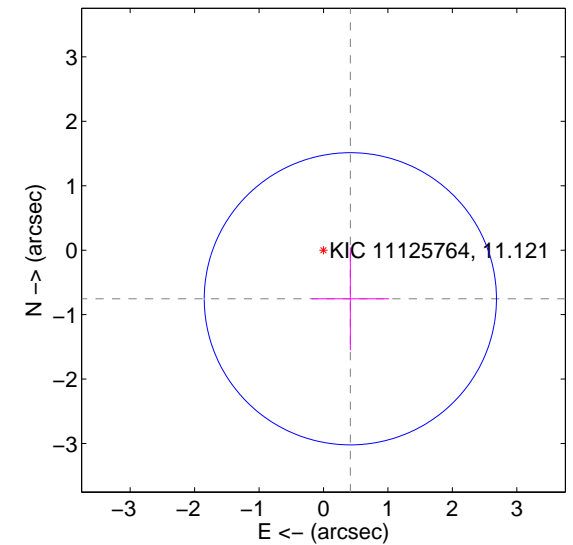
There is no PRF-fit offset from OOT-fit



There is no PRF-fit offset from KIC

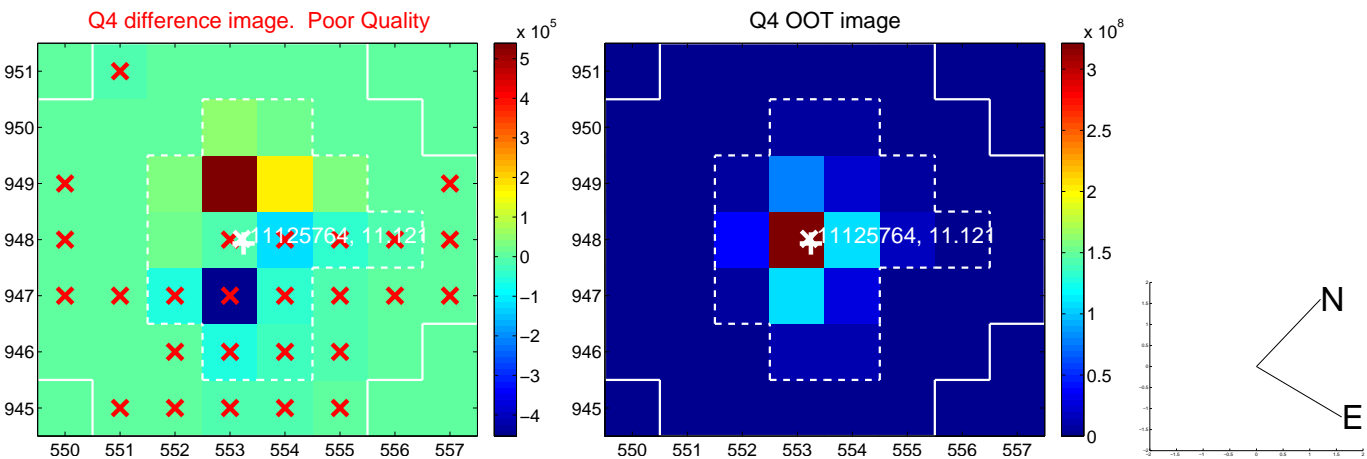
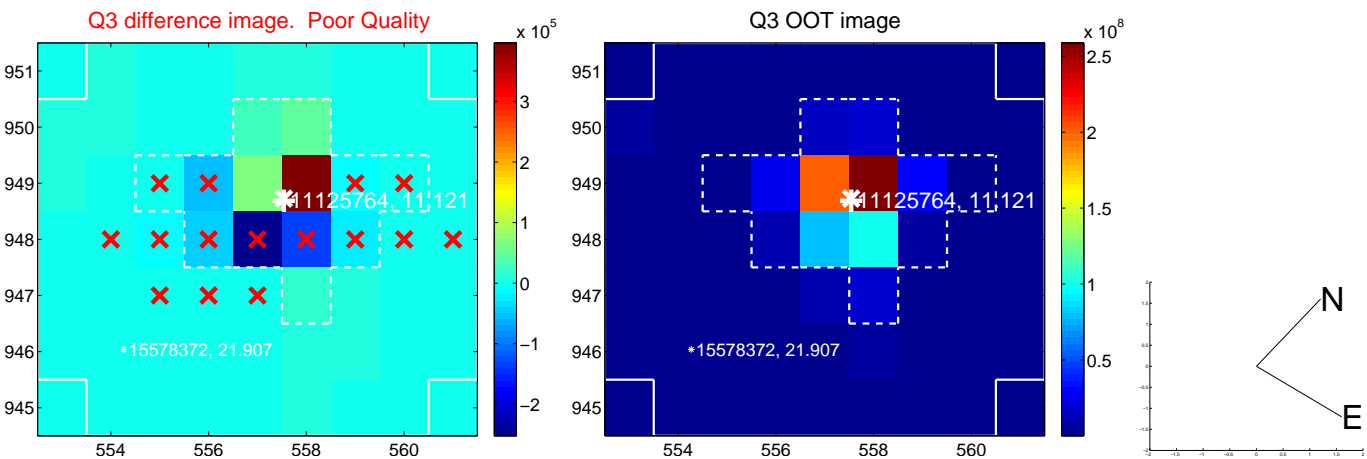
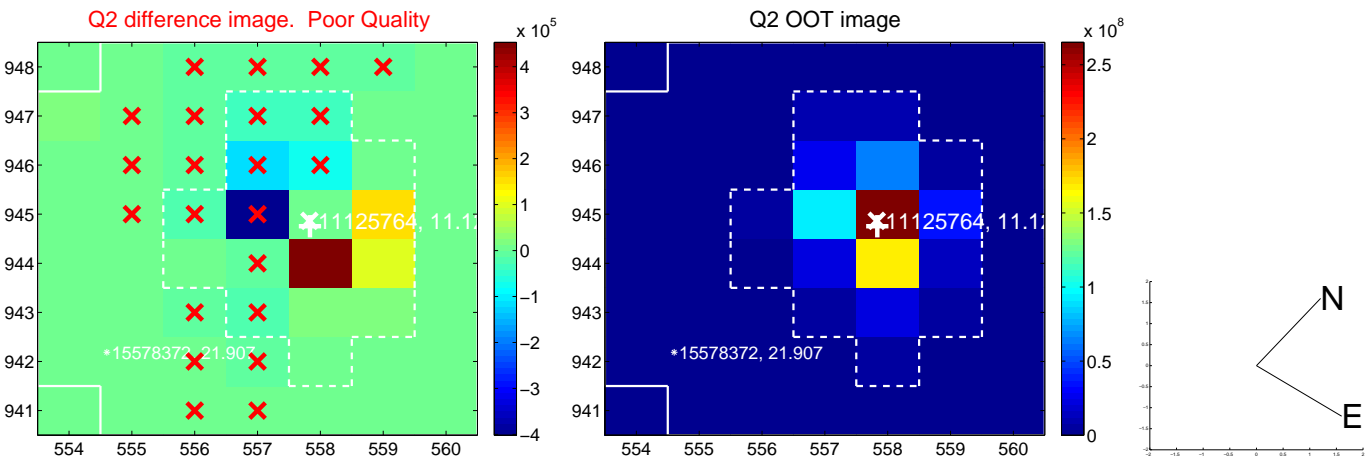
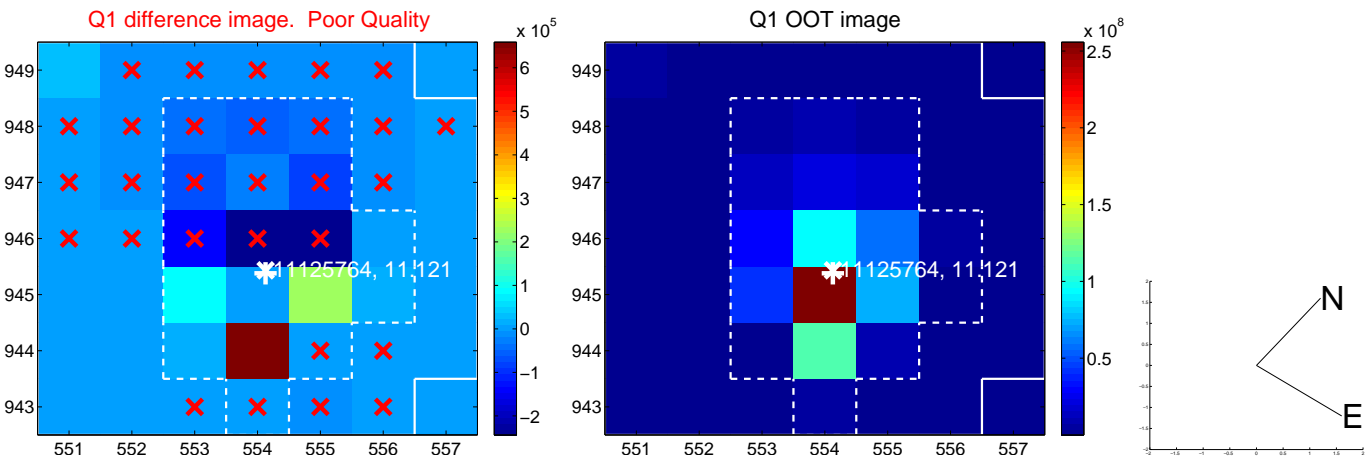


offset from photometric centroids

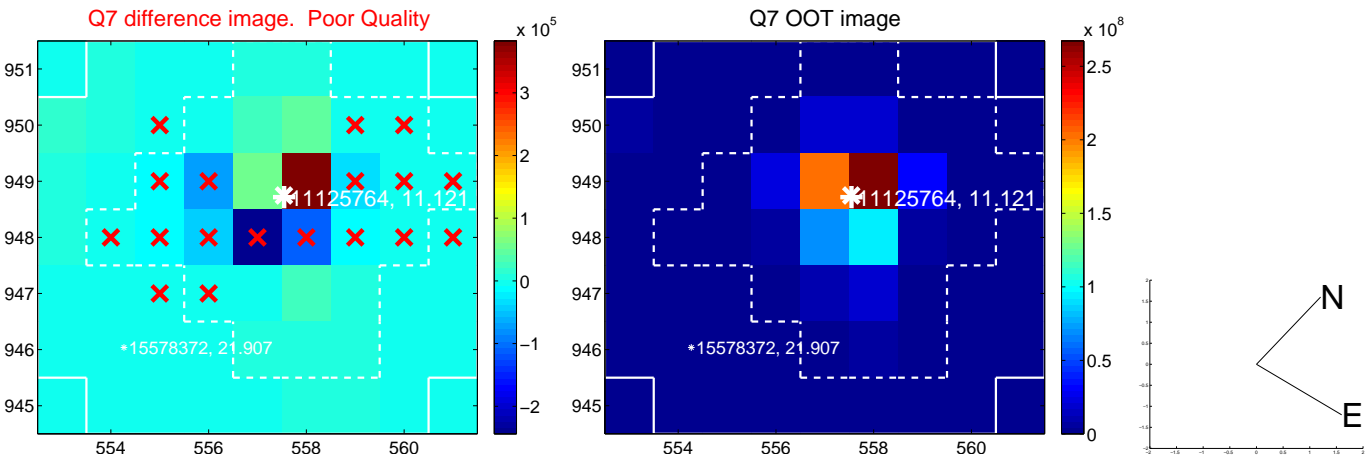
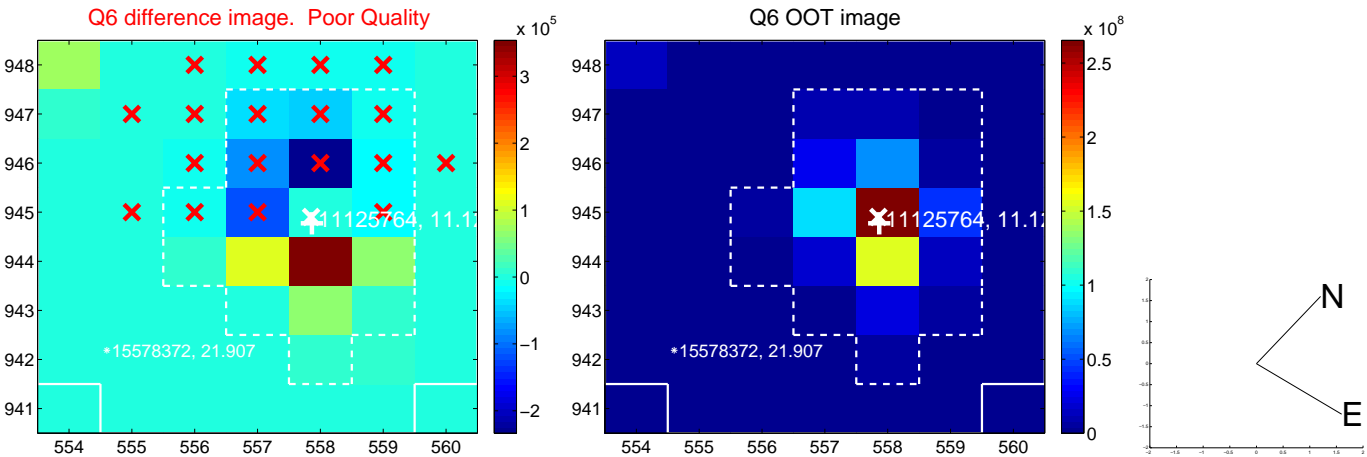
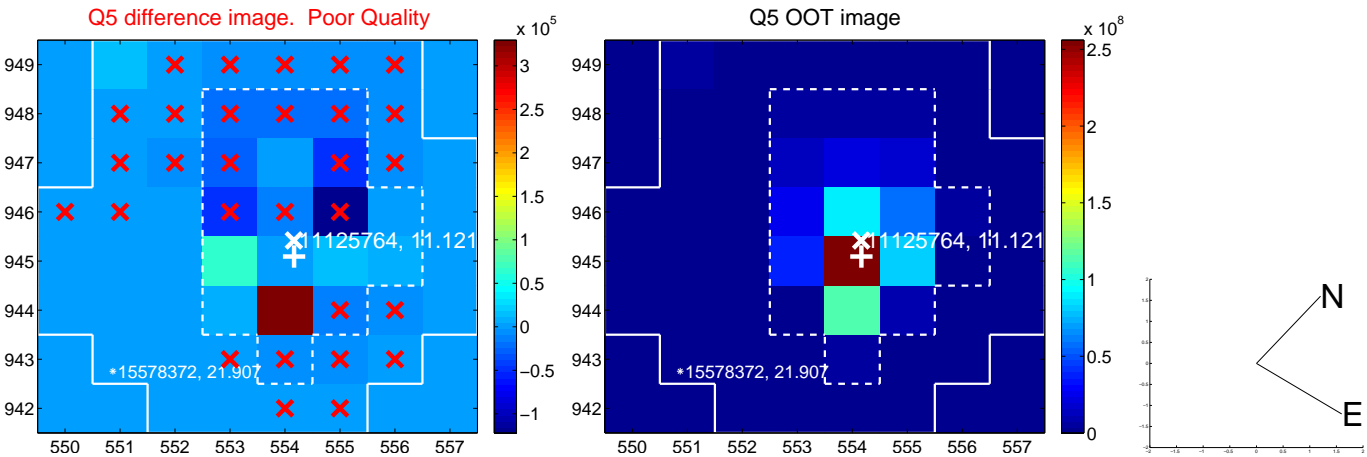


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

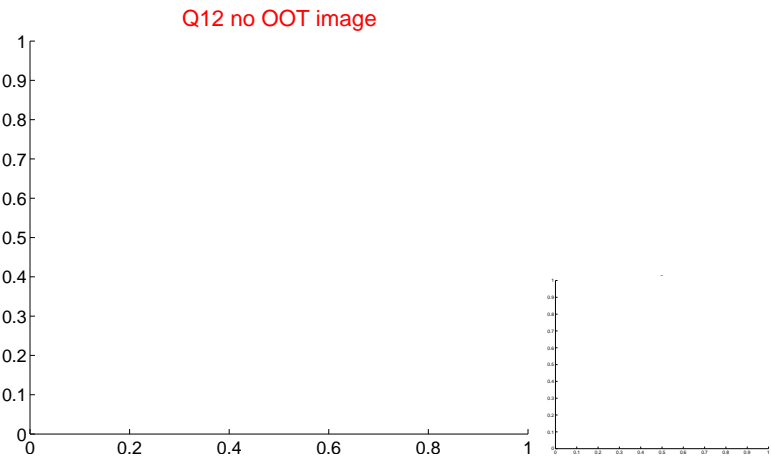
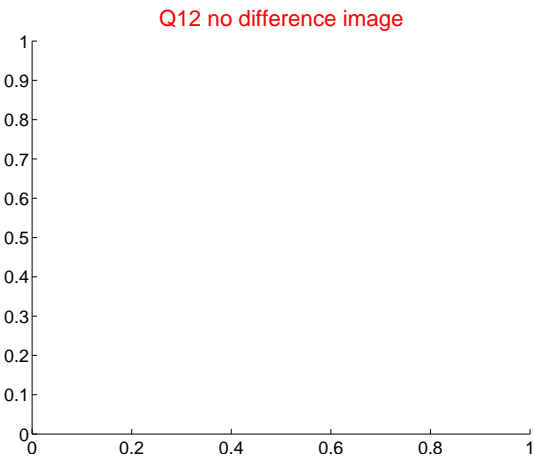
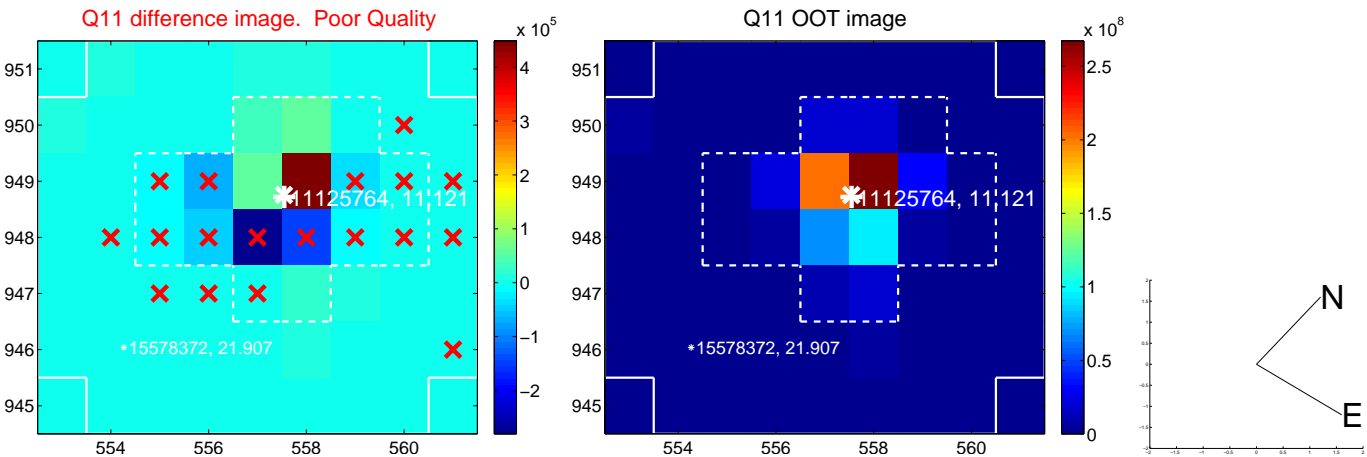
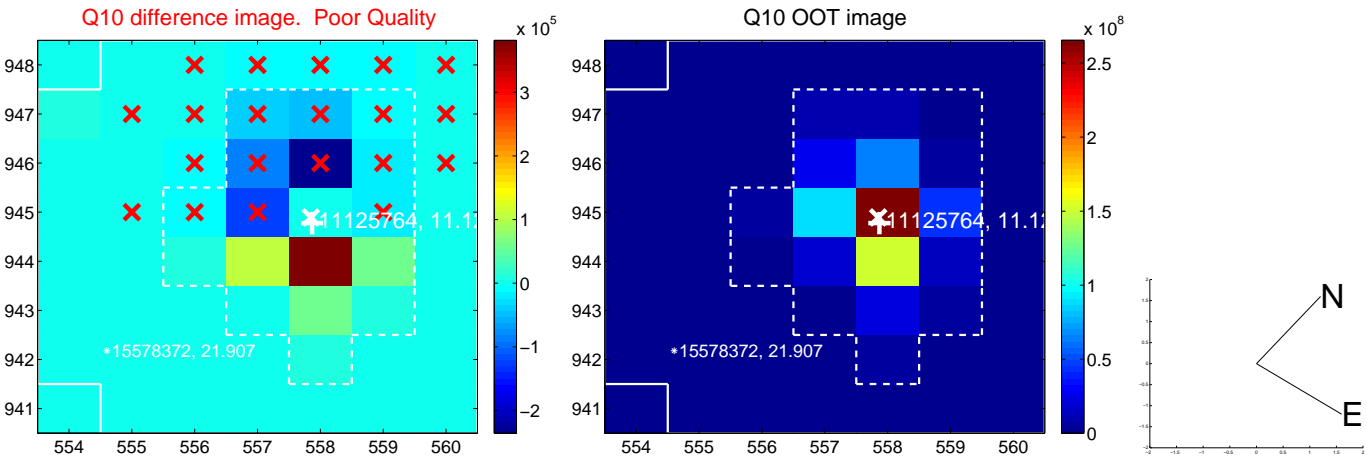
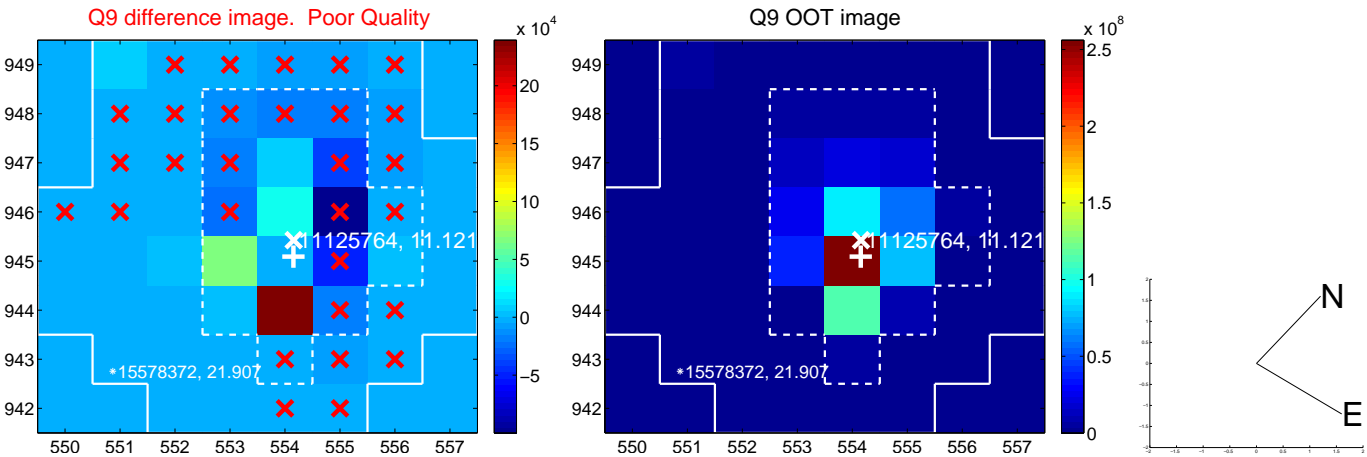
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



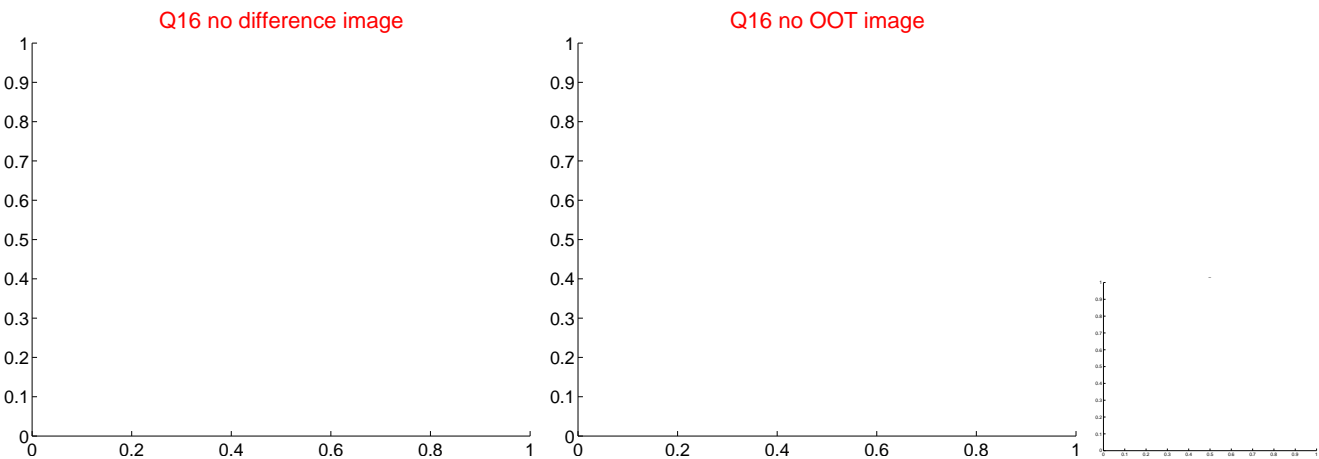
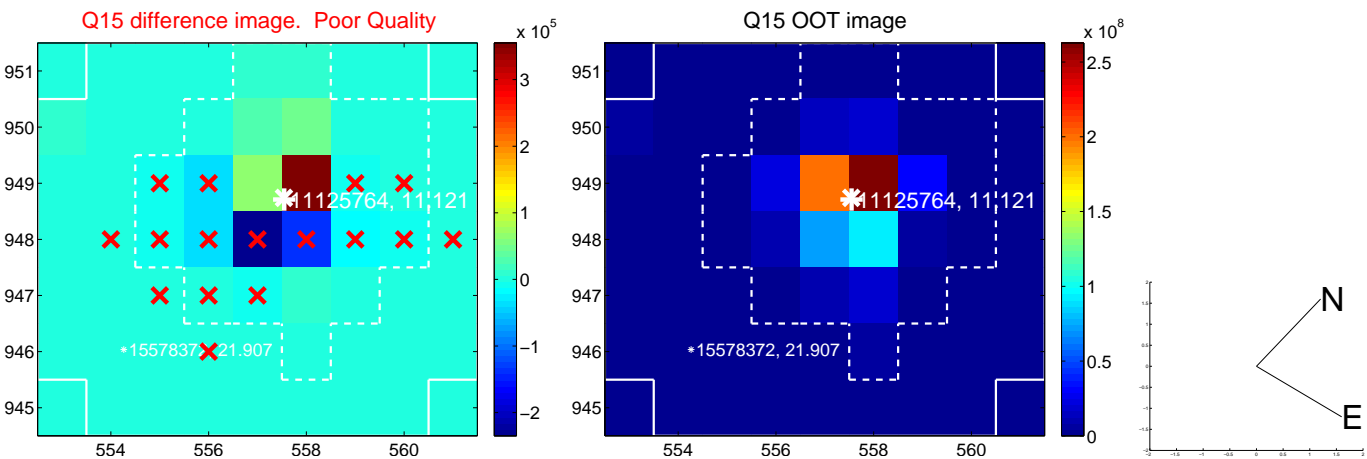
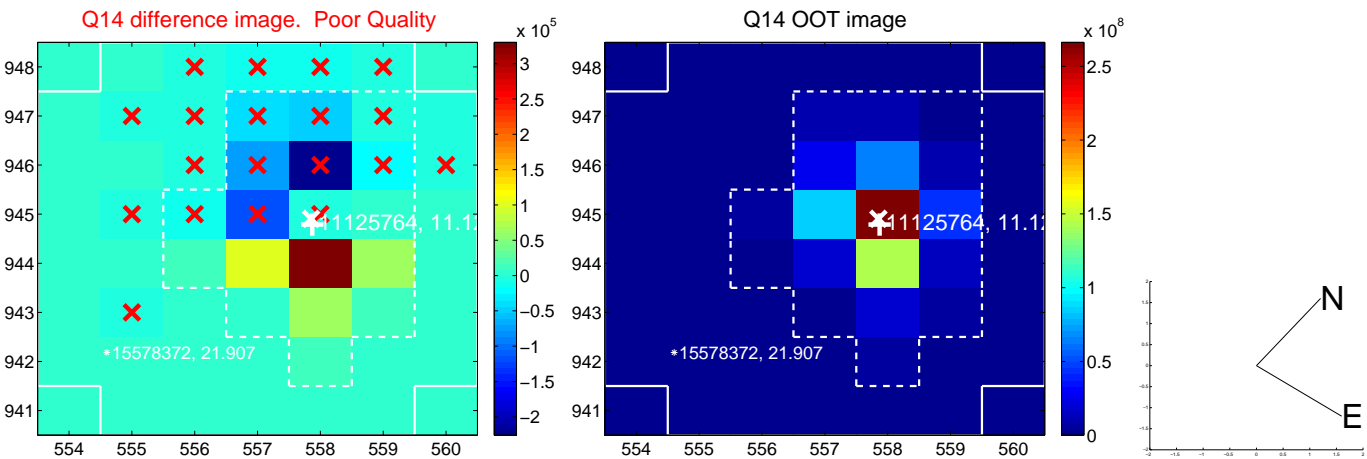
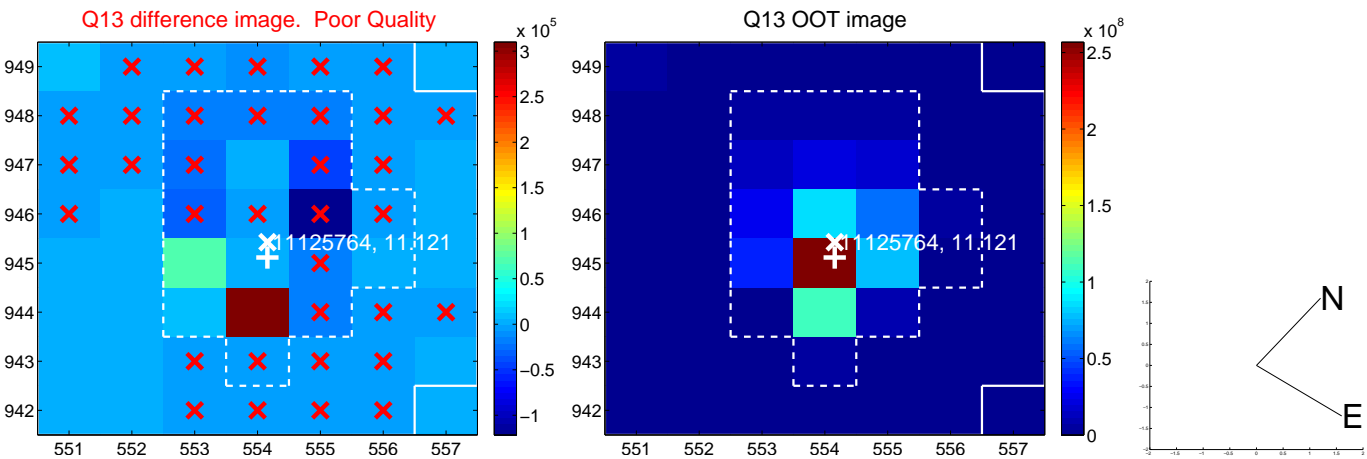
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



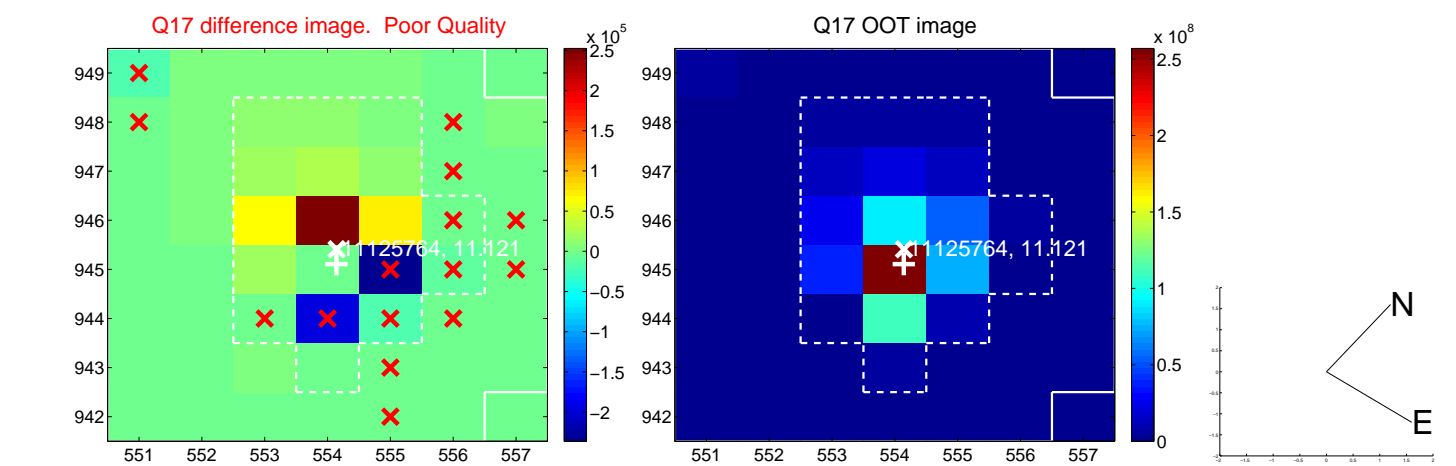
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



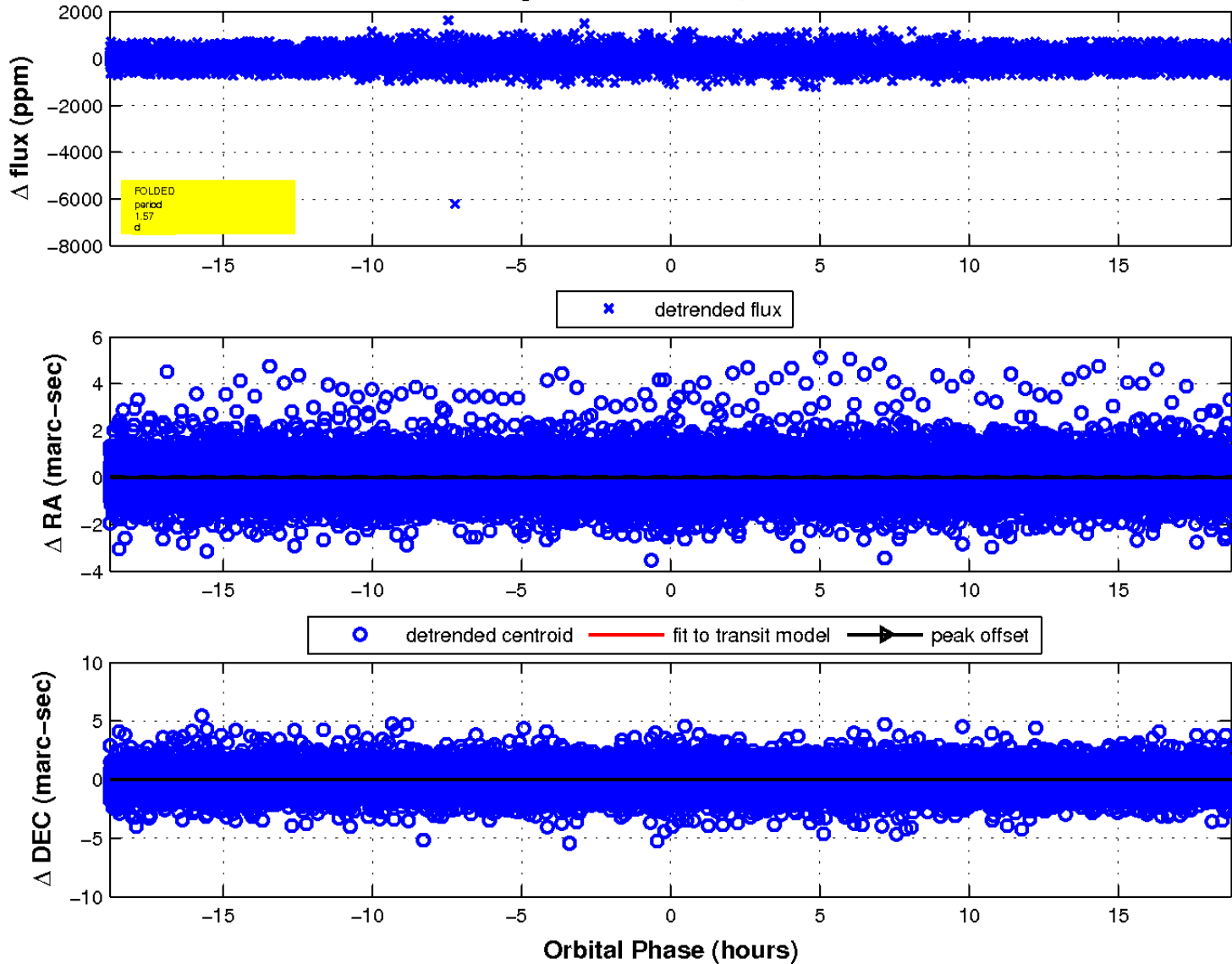
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

