

KIC 011242646

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})
011242646-01	OBS	No	0.765090	132.049387	1.3	1.403	8.9	0.2	0.95	5738	0.13	3156.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011242646-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL —LPP_DV —MOD_NONUNIQ_DV —CENT_FEW_DIFFS

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

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

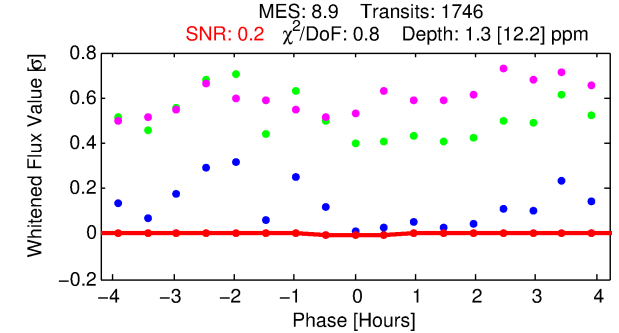
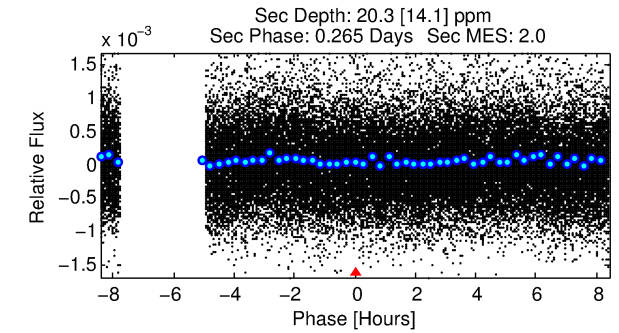
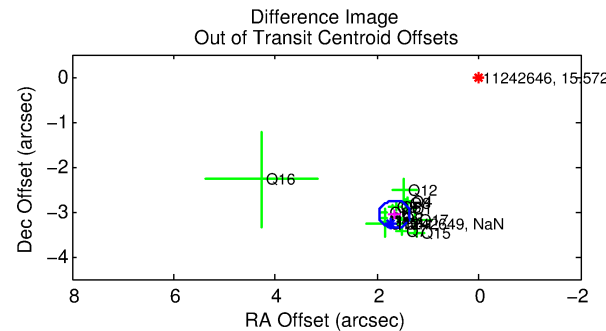
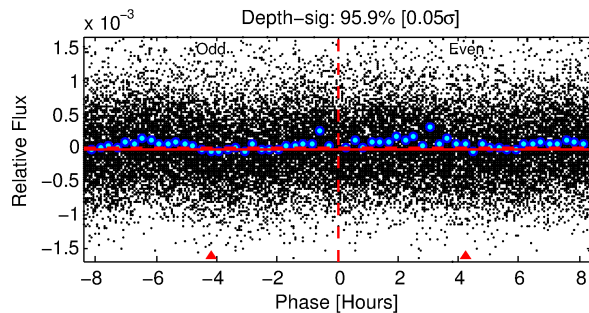
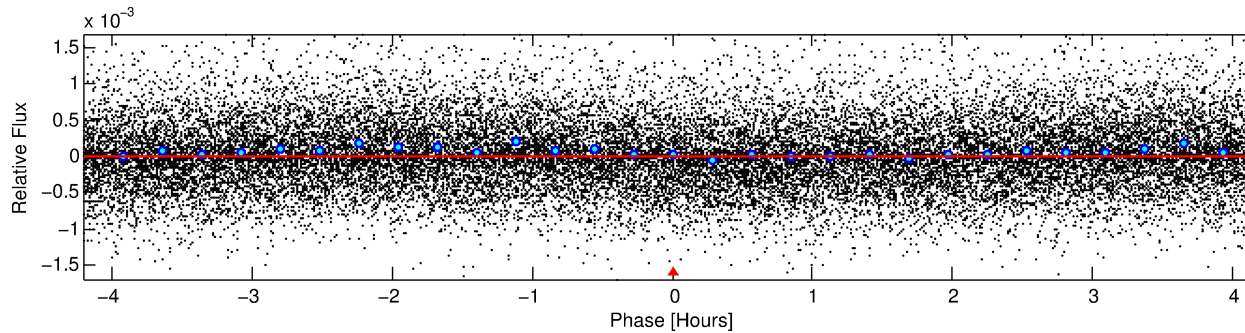
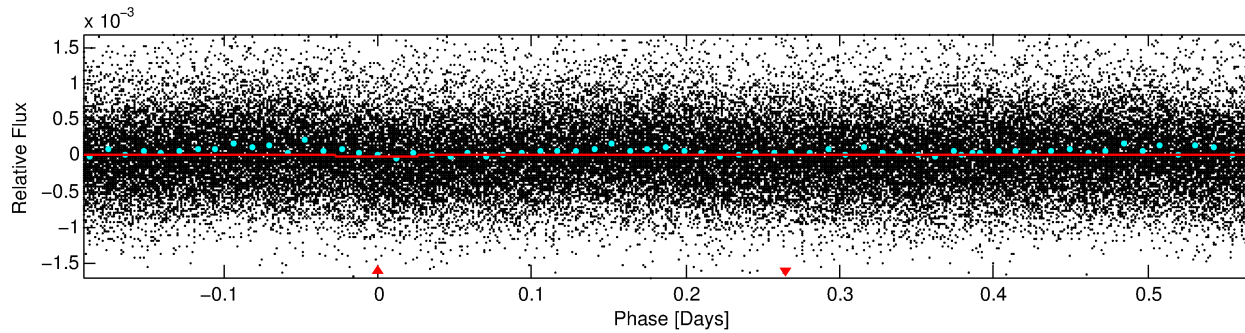
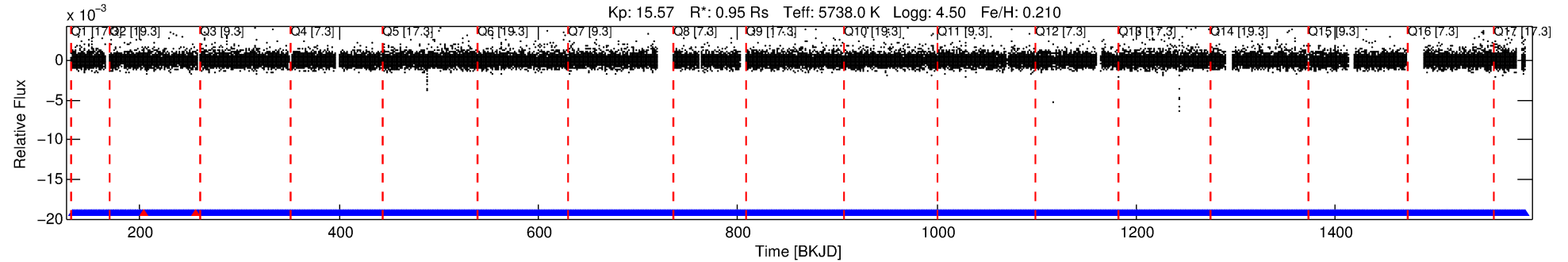
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011242646-01

No Significant Match Found

DV One-Page Summary

KIC: 11242646 Candidate: 1 of 1 Period: 0.765 d



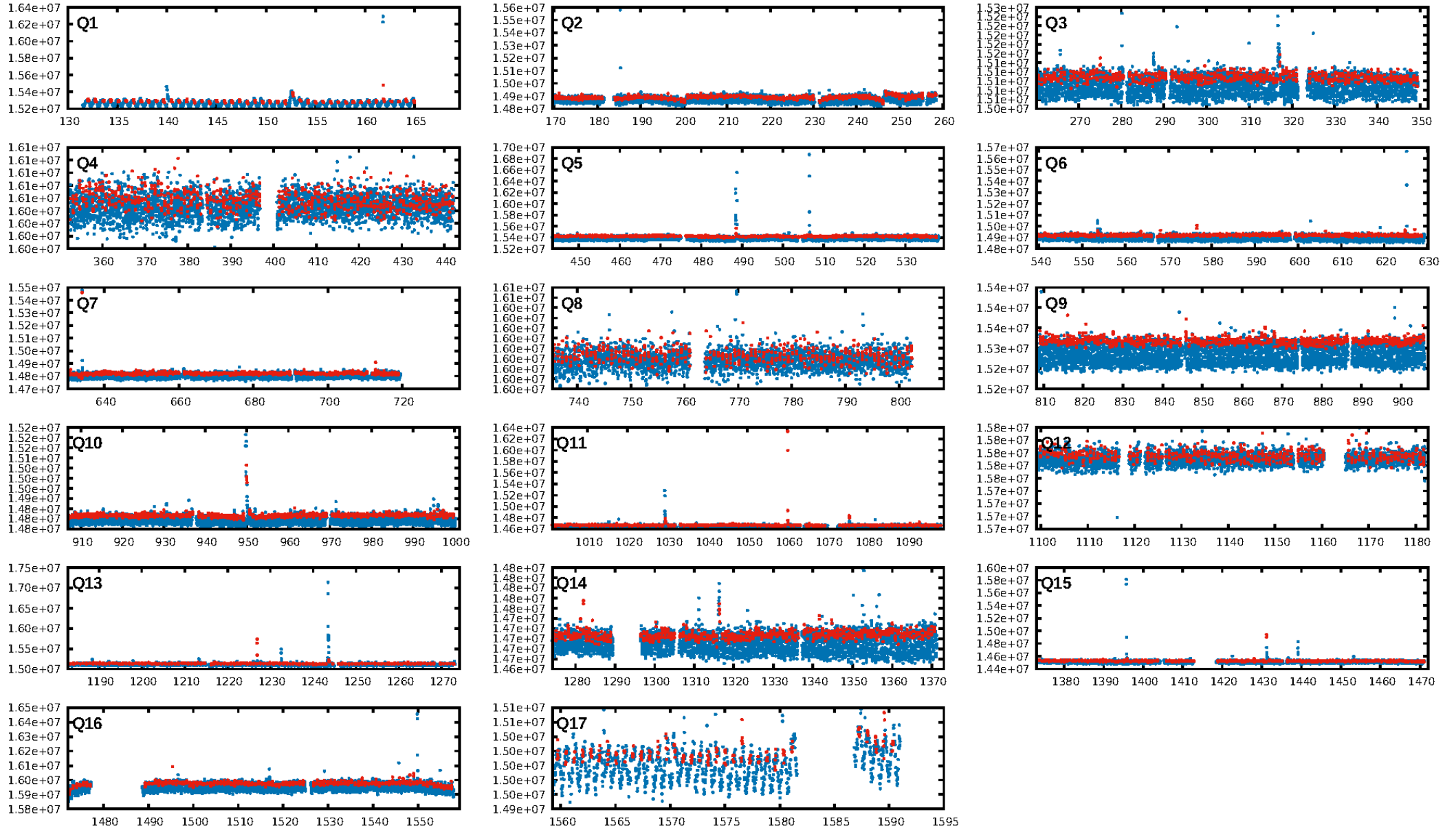
DV Fit Results:

Period = 0.76509 [0.00075] d
Epoch = 132.0494 [0.1418] BKJD
Rp/R* = 0.0013 [0.0081]
a/R* = 1.85 [25.85]
b = 0.93 [3.09]
Seff = 3156.19 [1301.99]
Teq = 1911 [197] K
Rp = 0.13 [0.84] Re
a = 0.0166 [0.0044] AU
Ag = 173.90 [2180.58] [0.08 σ]
Teffp = 10731 [33628] K [0.26 σ]

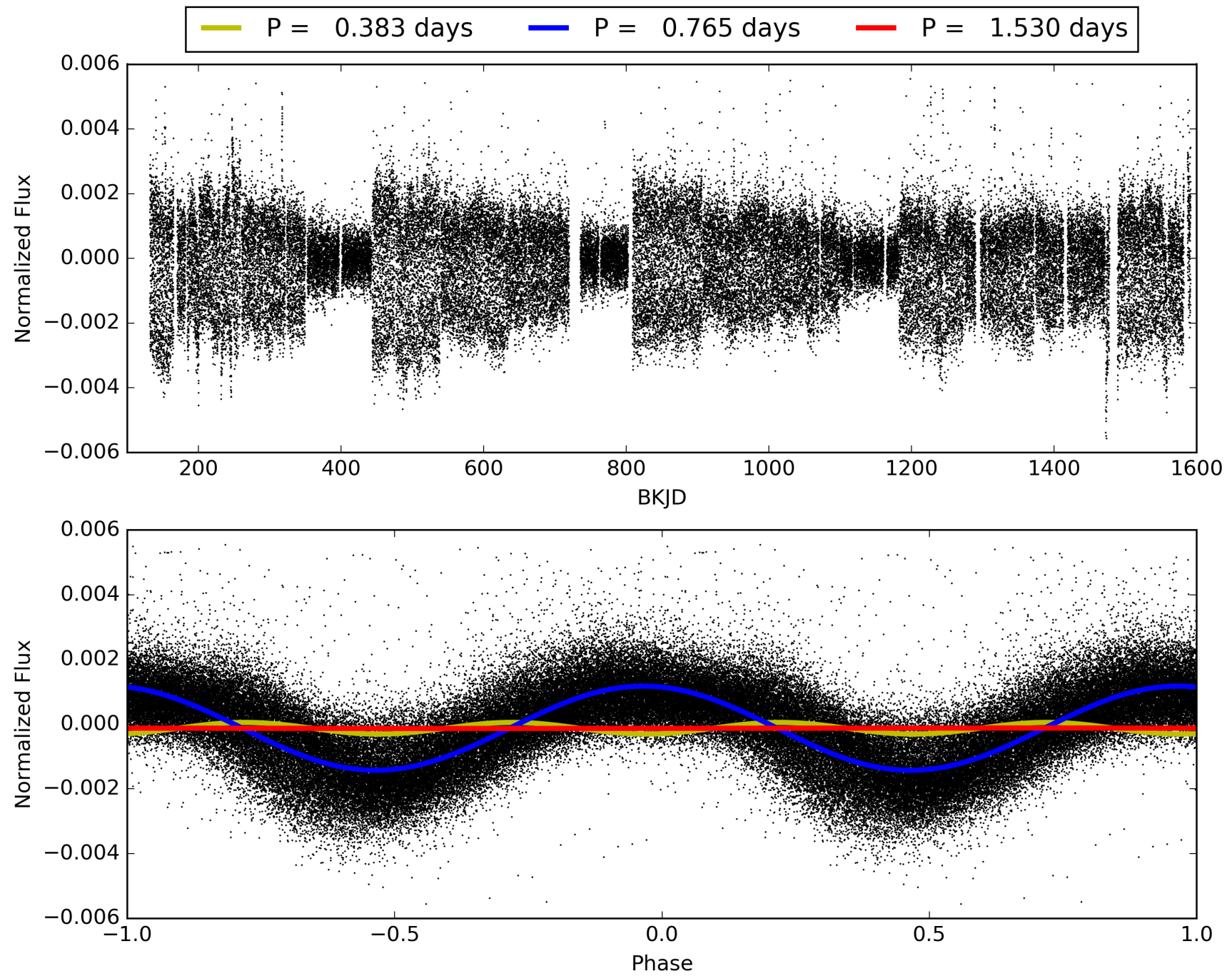
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.55e-16
RollingBand-fgt: 1.00 [1666/1668]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 3.486 arcsec [34.10 σ]
KicOffset-rm: 3.650 arcsec [35.74 σ]
OotOffset-st: 3/4/4/5 [16]
KicOffset-st: 3/4/4/5 [16]
DiffImageQuality-fgm: 0.00 [0/16]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 011242646-01, PDC Light Curves

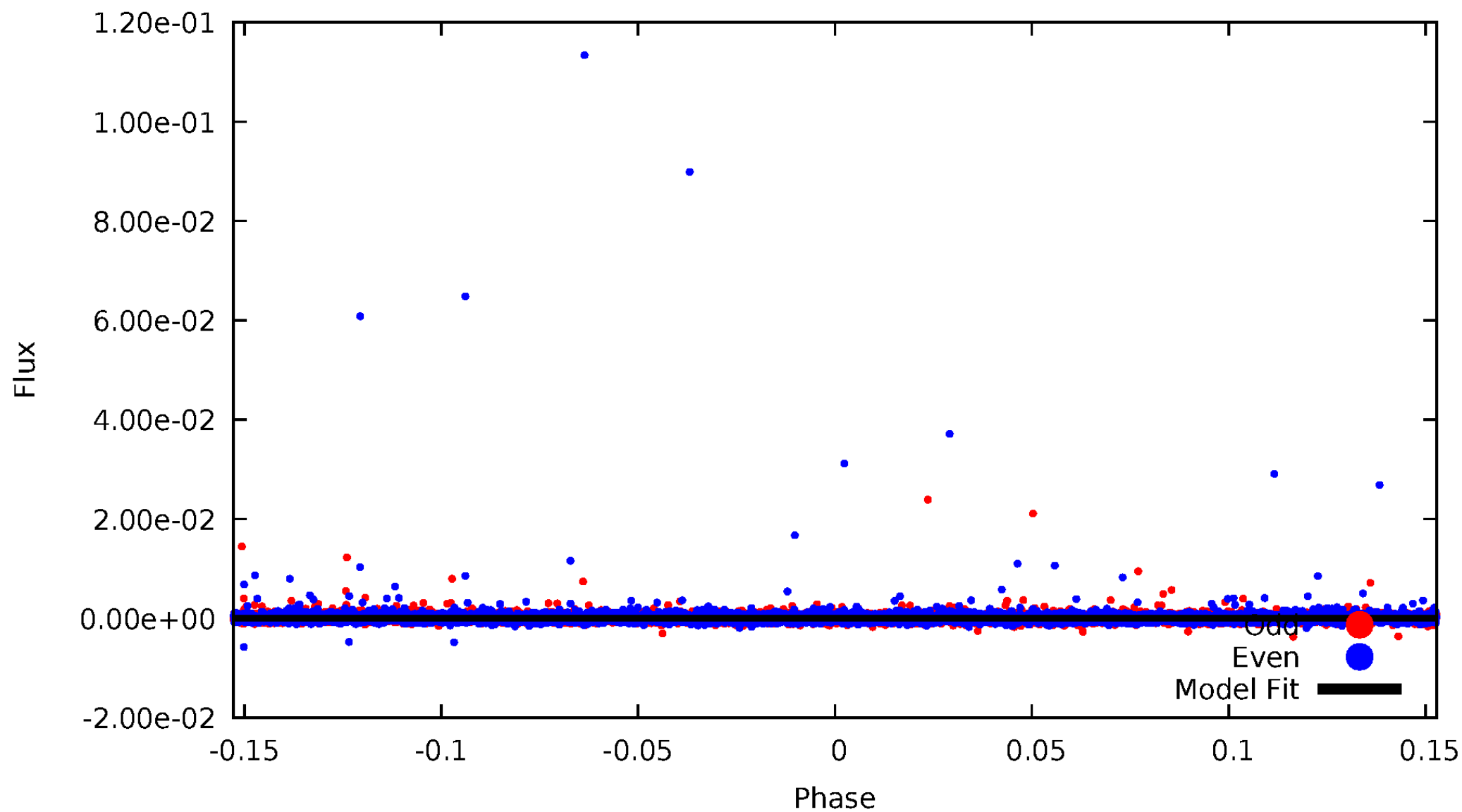


TCE 011242646-01



DV Odd/Even

TCE 011242646-01

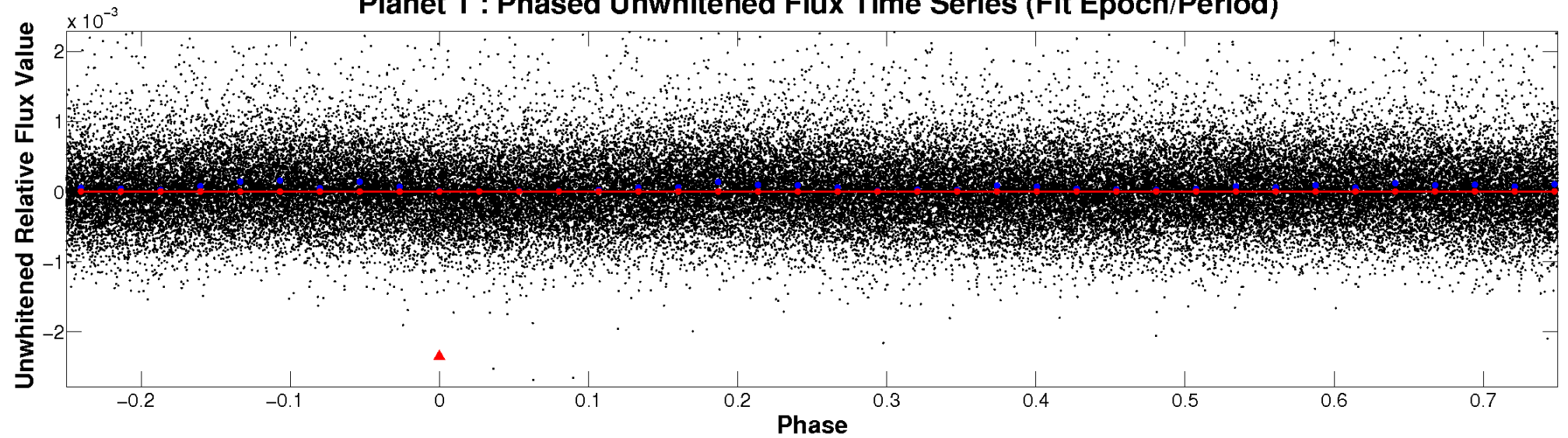


ALT Odd/Even

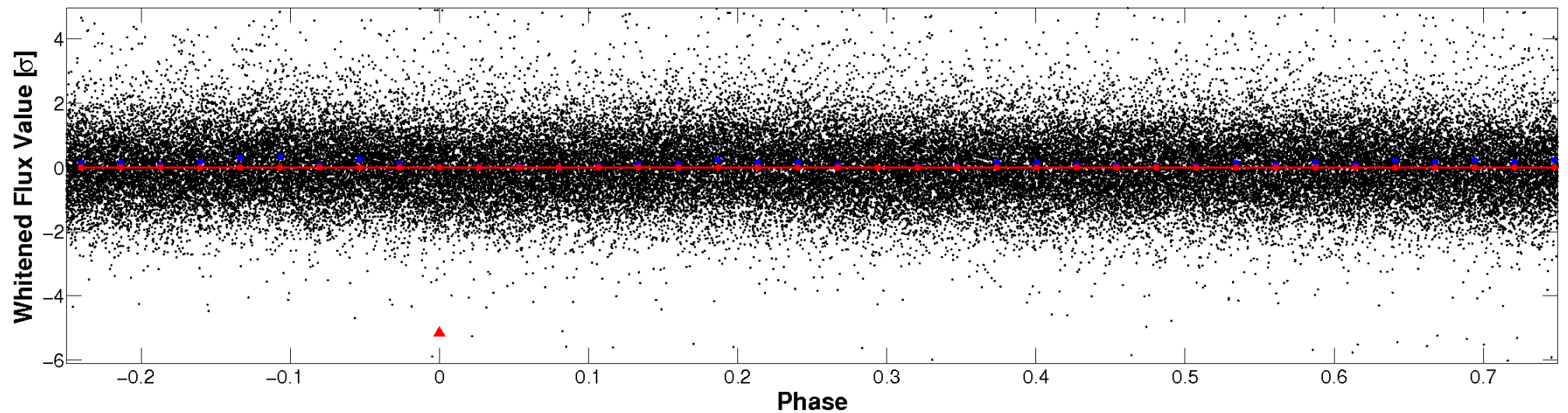
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

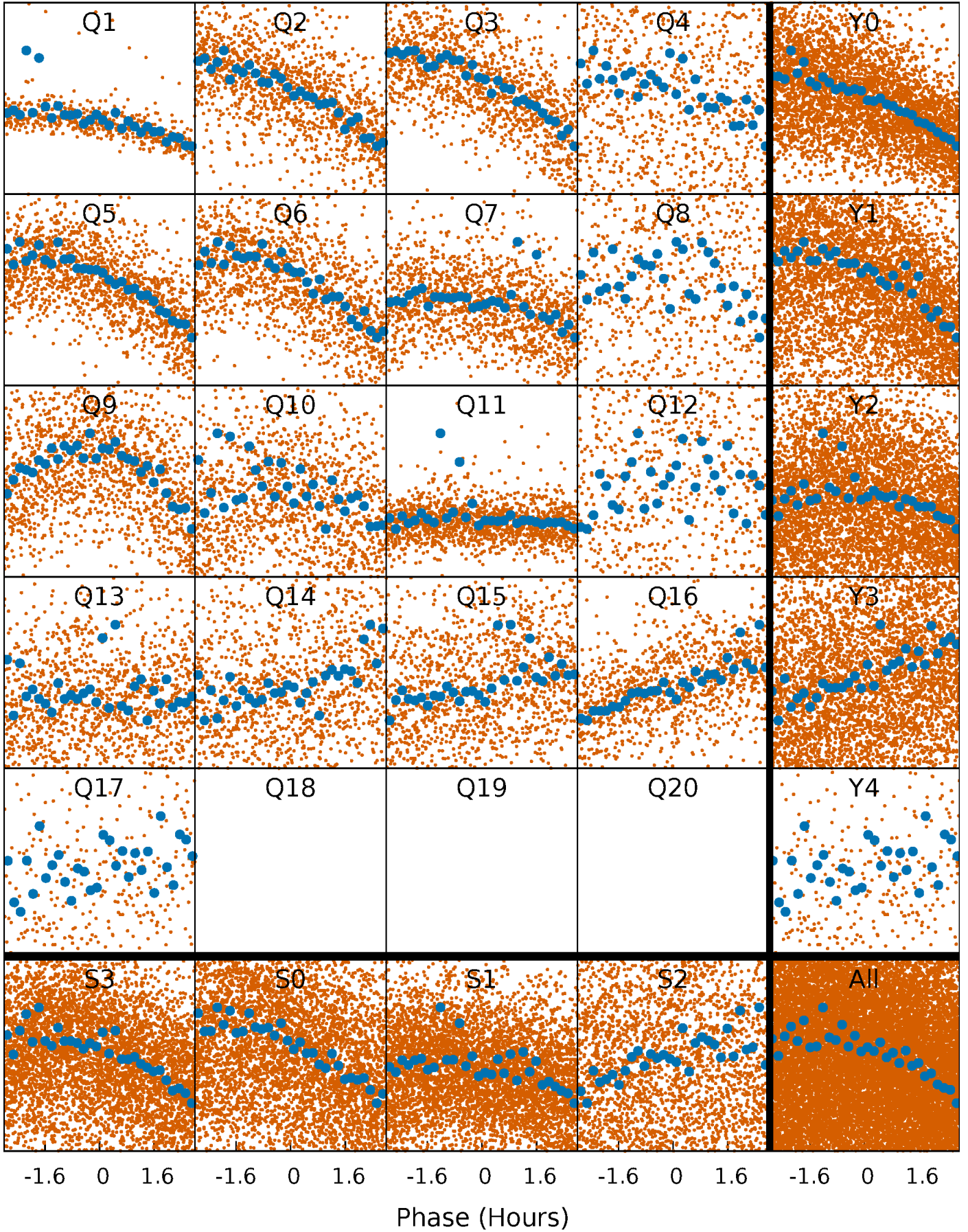


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



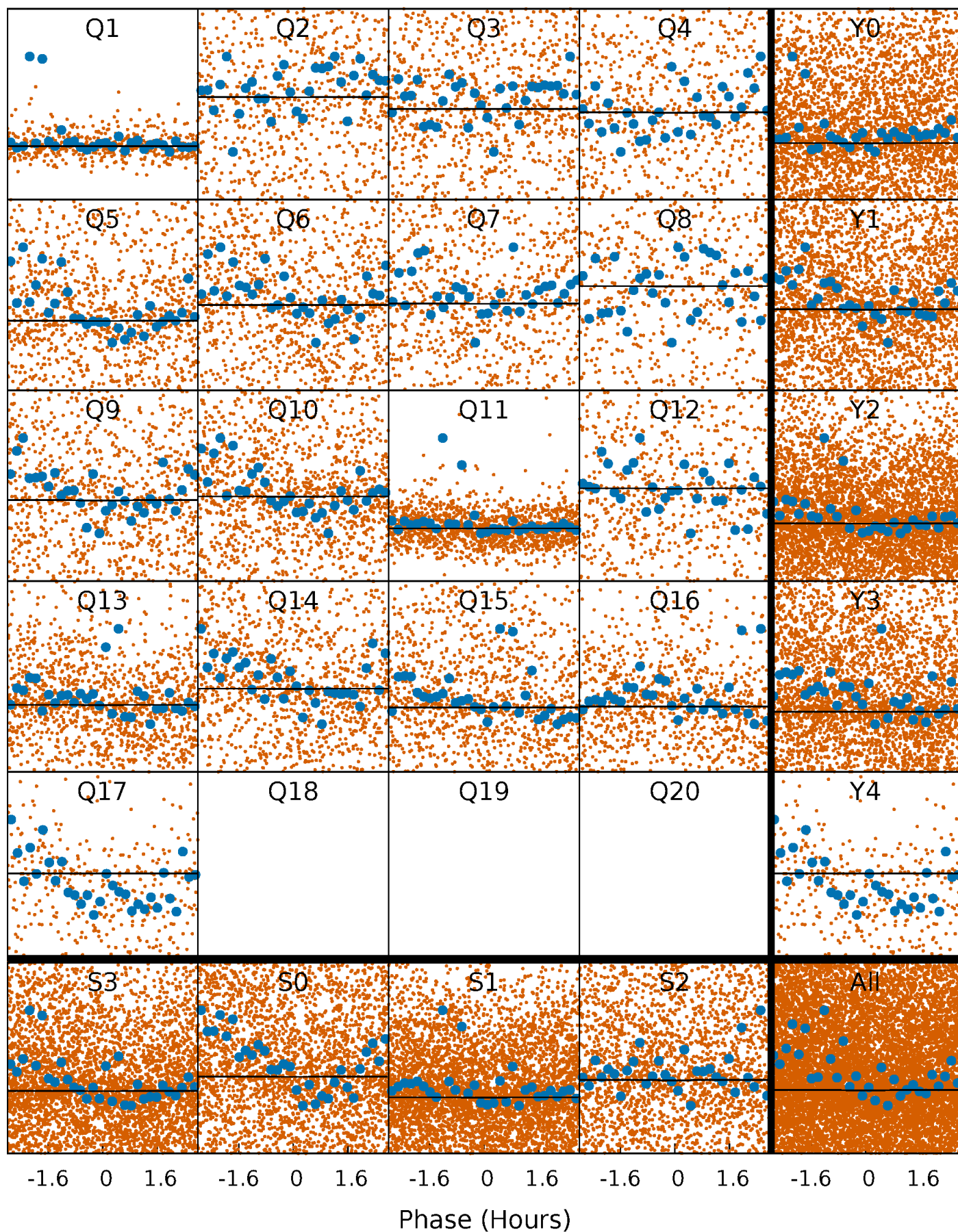
PDC Quarter-Phased Transit Curves

TCE 011242646-01 P= 0.765090 Days $T_0=132.049387$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011242646-01 P= 0.765090 Days $T_0=132.049387$ (BKJD)

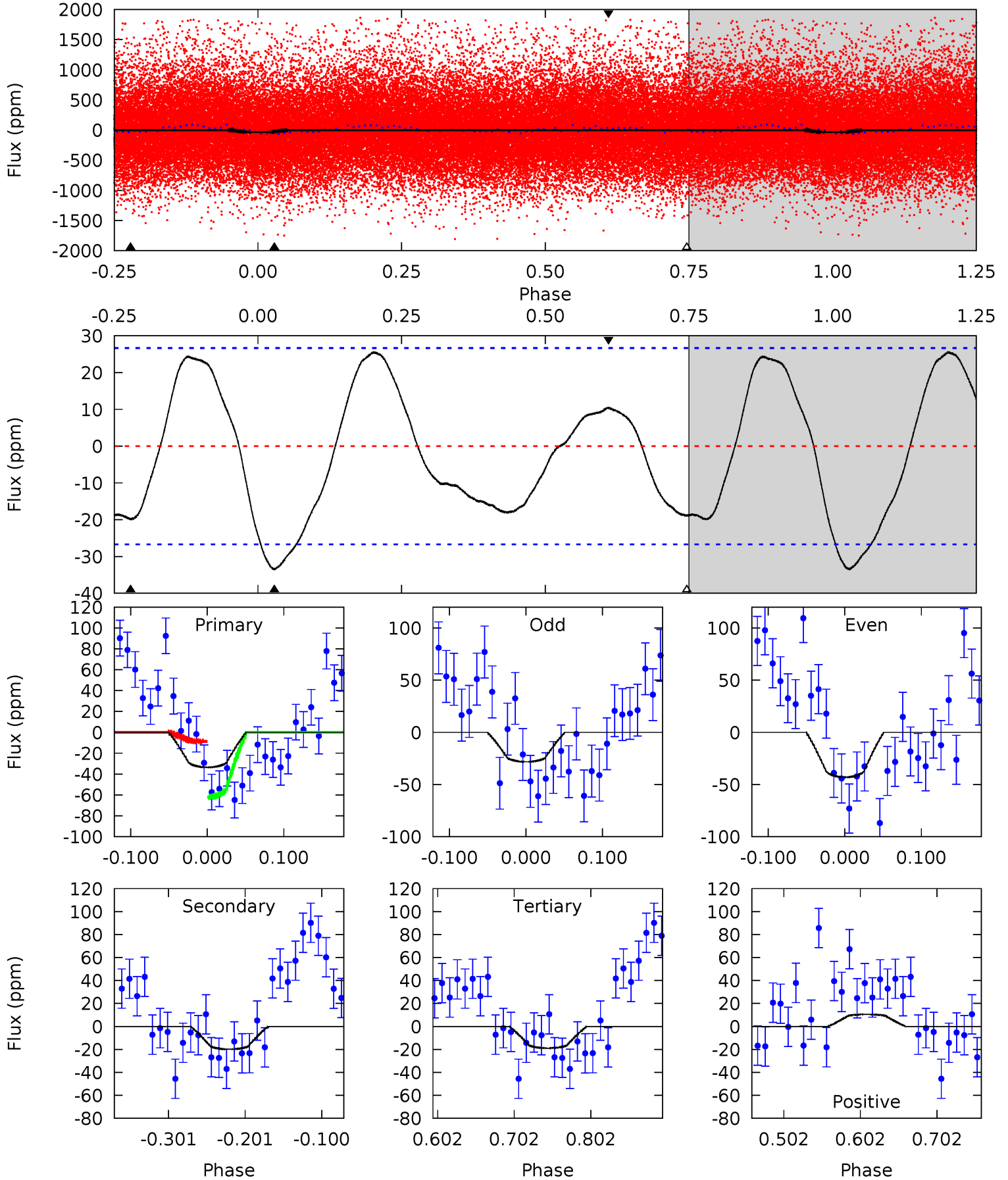


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

011242646-01, P = 0.765090 Days, E = 131.284297 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.73	3.40	3.24	1.80	4.56	1.64	2.42	2.49	3.93	0.16	1.60	1.27	-0.68	0.43	4.59



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 011242646

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5738^{+160}_{-200}	$4.505^{+0.037}_{-0.213}$	$0.210^{+0.200}_{-0.300}$	$0.949^{+0.298}_{-0.093}$	$1.051^{+0.110}_{-0.134}$	$1.732^{+0.354}_{-0.903}$
	+3%/-3%	+1%/-5%	+95%/-143%	+31%/-10%	+10%/-13%	+20%/-52%
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 011242646-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-20 ± 6	$0.66^{+0.67}_{-0.44}$	2745^{+193}_{-127}	4884^{+3972}_{-1229}	$6.438^{+53.387}_{-4.886}$
Alt.	N/A	N/A	N/A	N/A	N/A

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 $A_{obs} \gg 1.0$

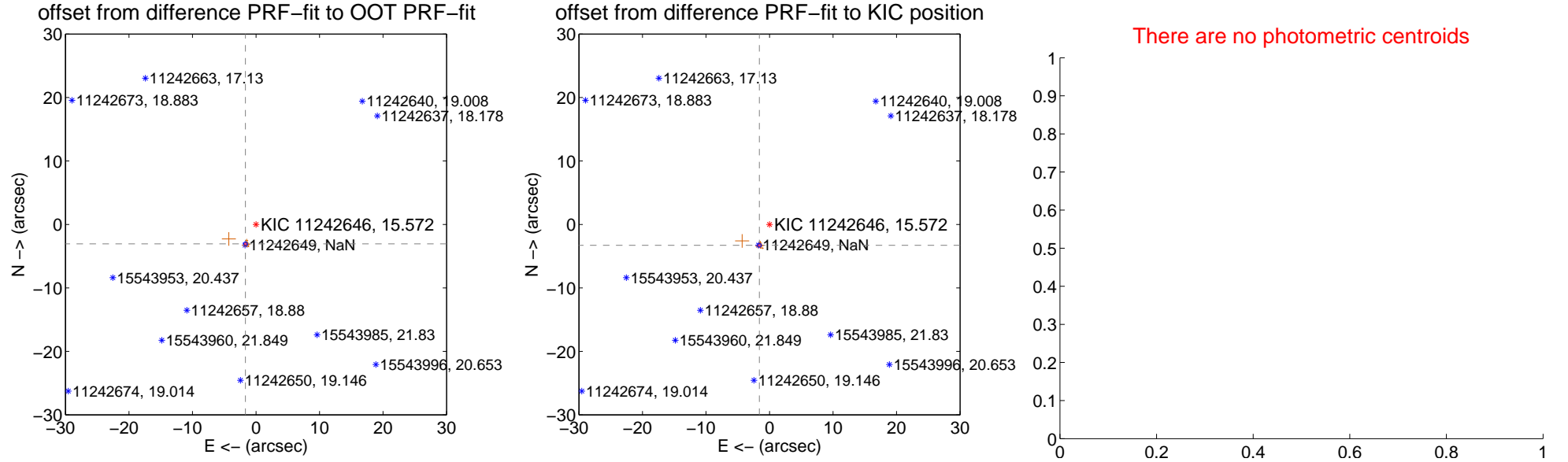
DV Centroid Data

Supplemental centroid analysis for 011242646-01. Kepler magnitude: 15.57. Transit SNR 0.15

There are 0 quarters with good PRF difference image offsets

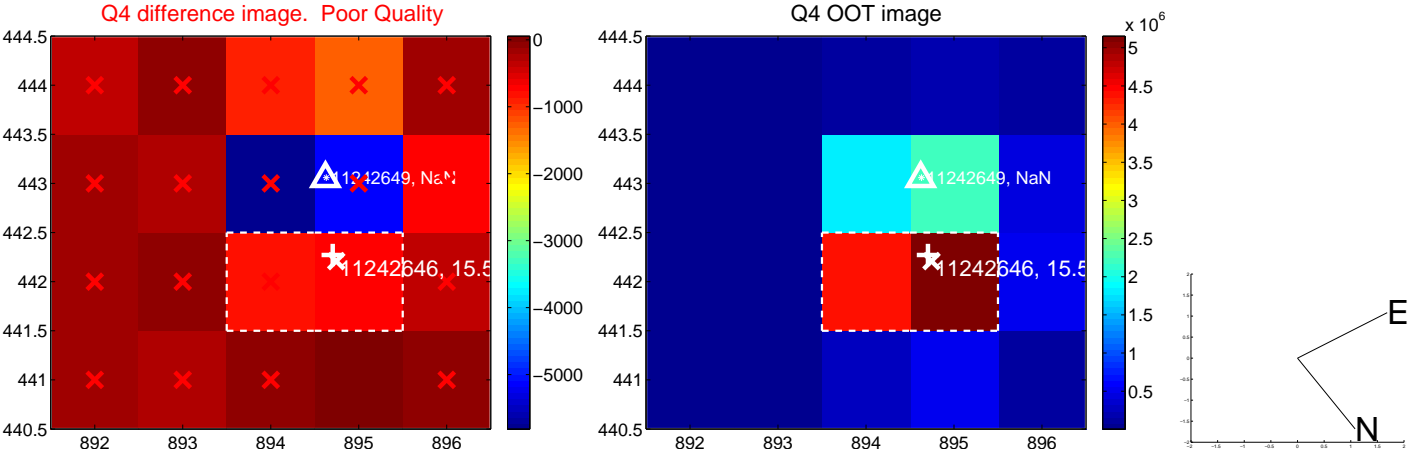
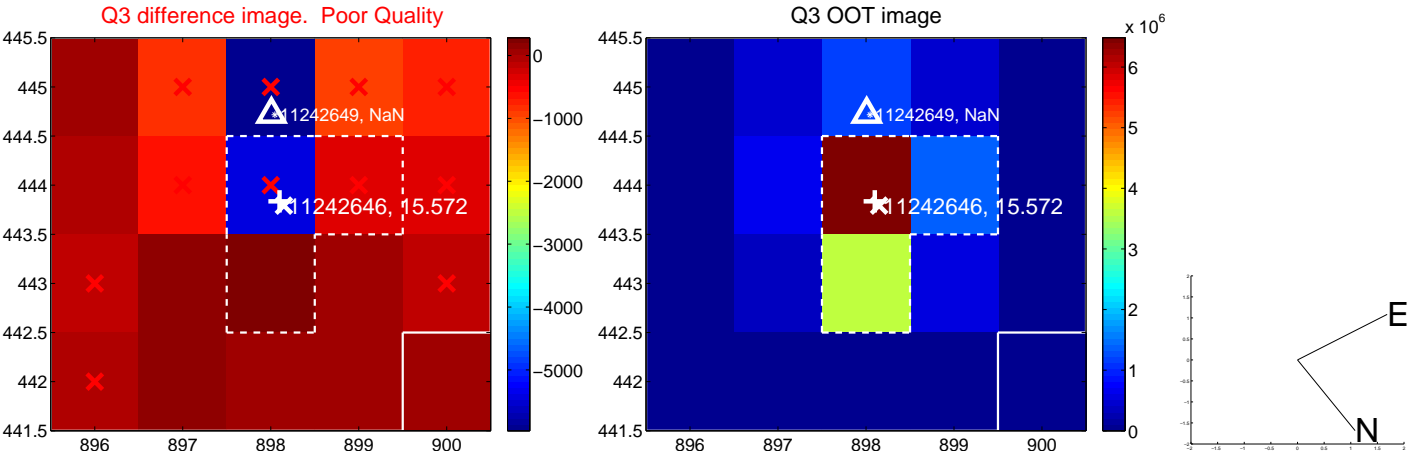
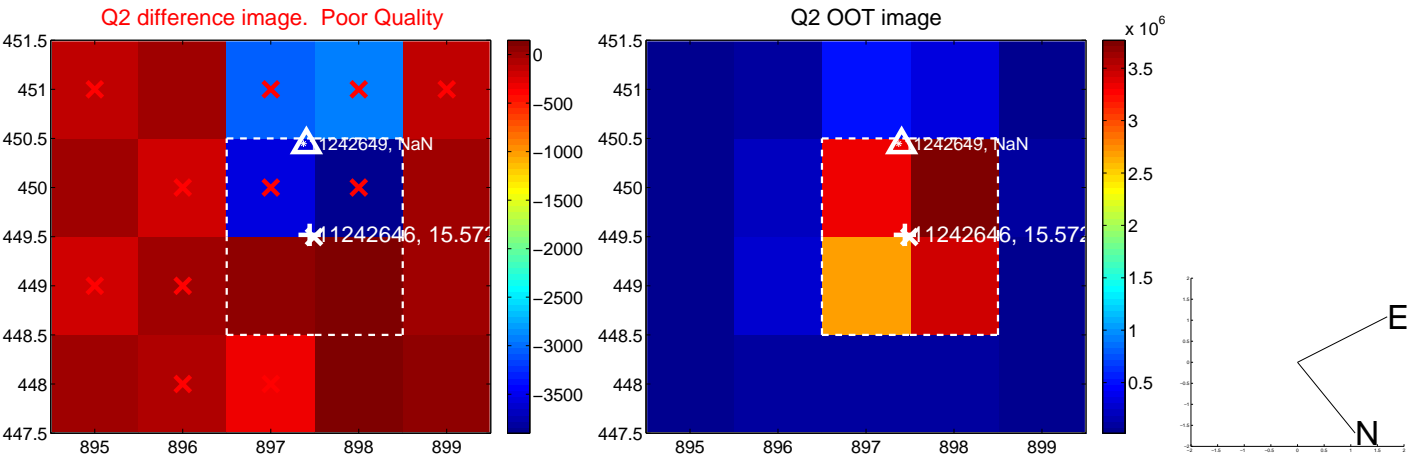
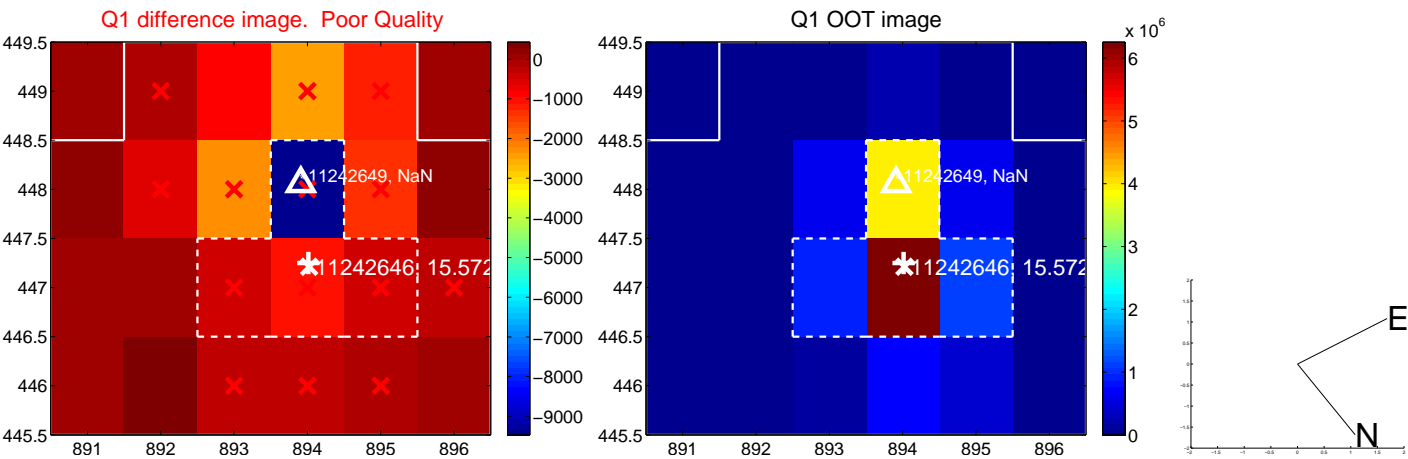
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.486 ± 0.102	34.10	1.663 ± 0.104	-3.064 ± 0.102
PRF-fit source offset from KIC position	3.650 ± 0.102	35.74	1.595 ± 0.104	-3.283 ± 0.102
photometric centroid source offset	—	—	—	—

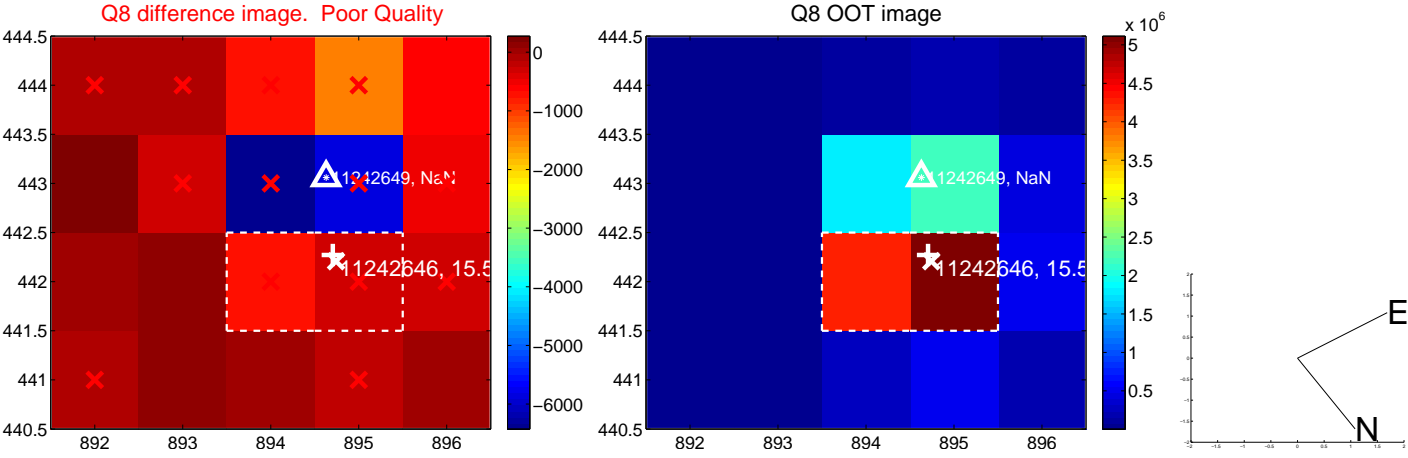
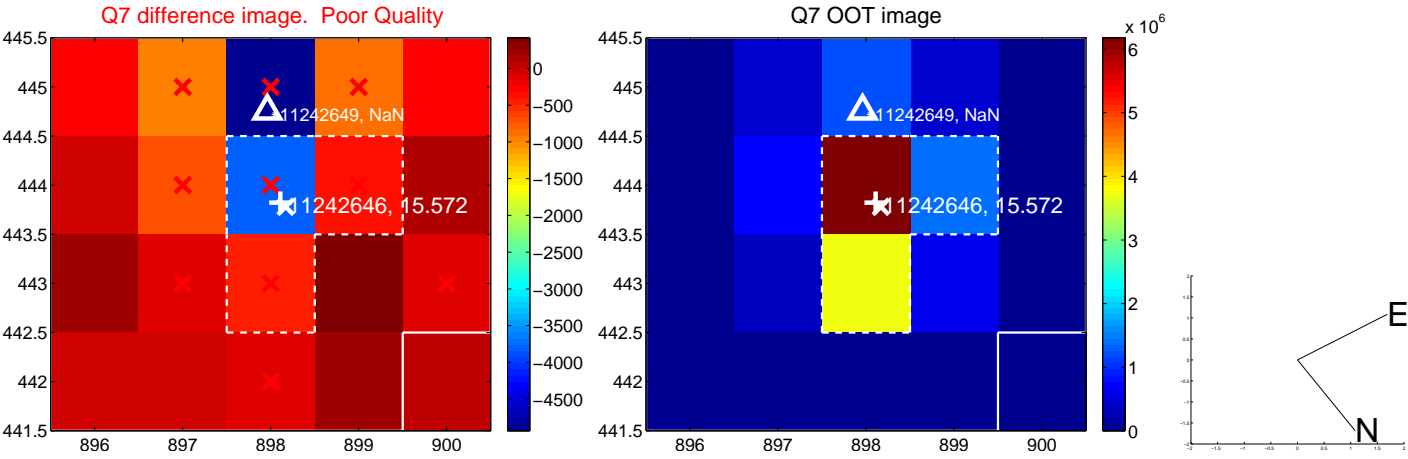
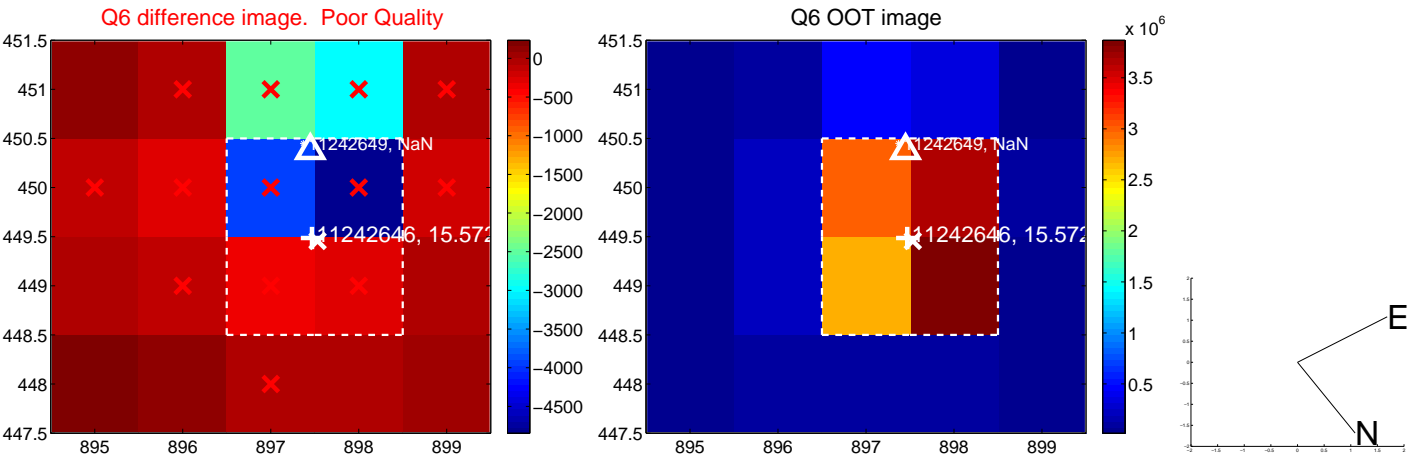
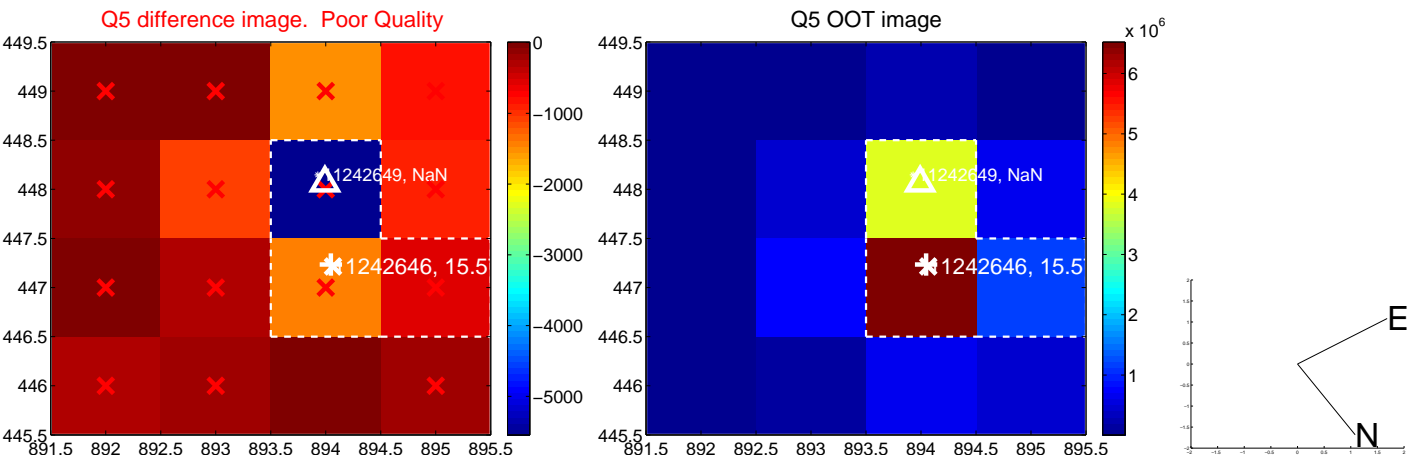


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

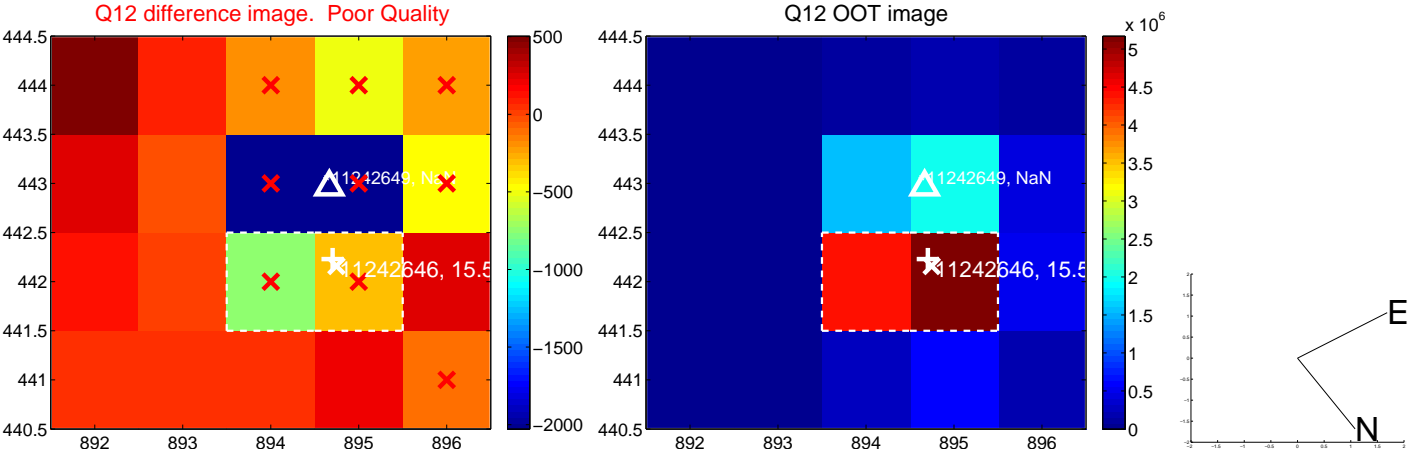
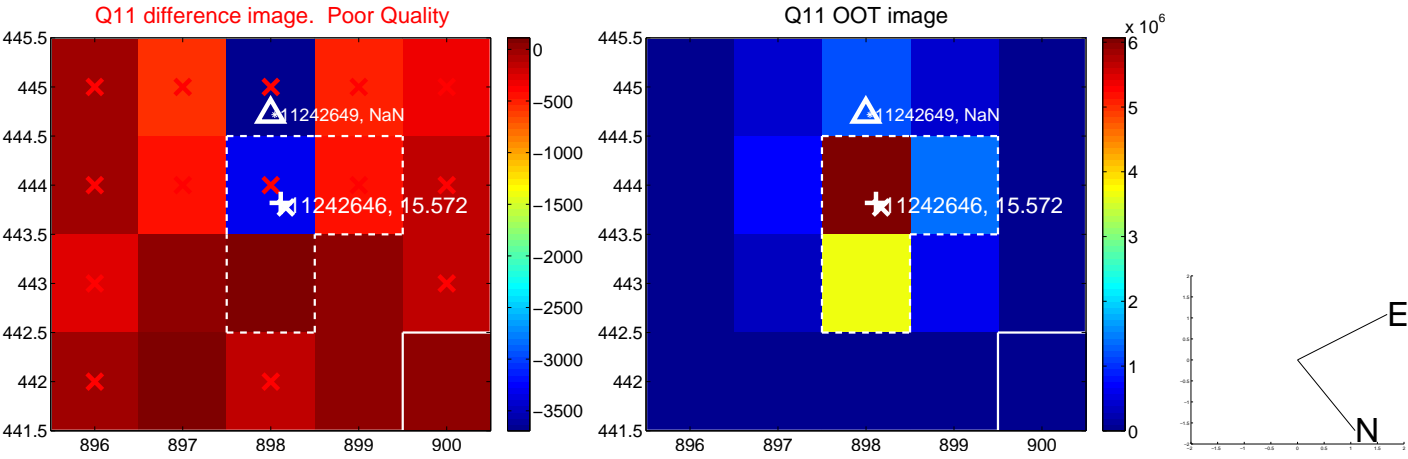
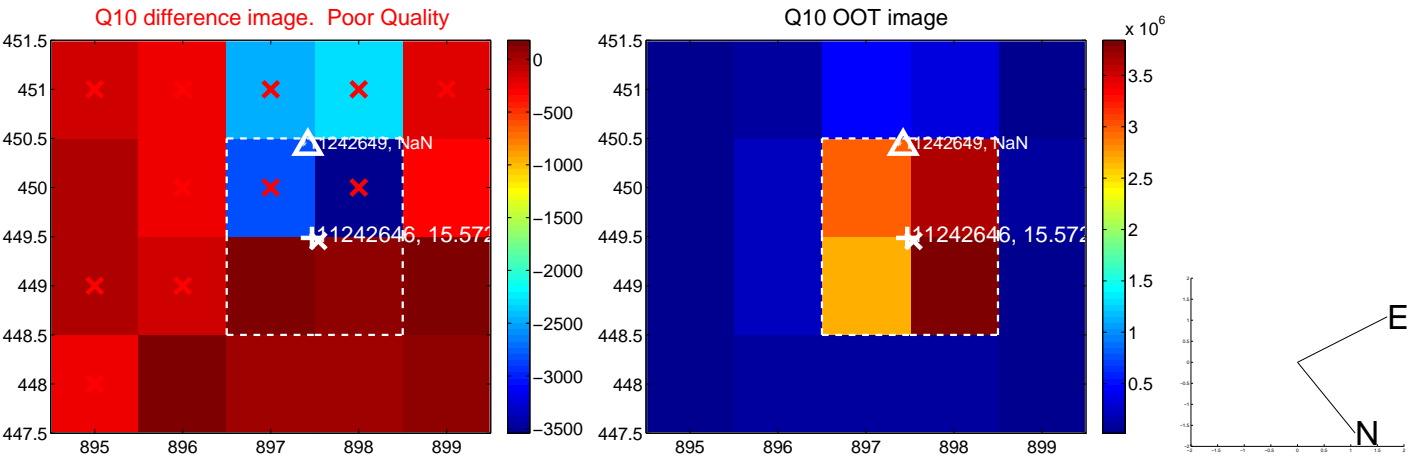
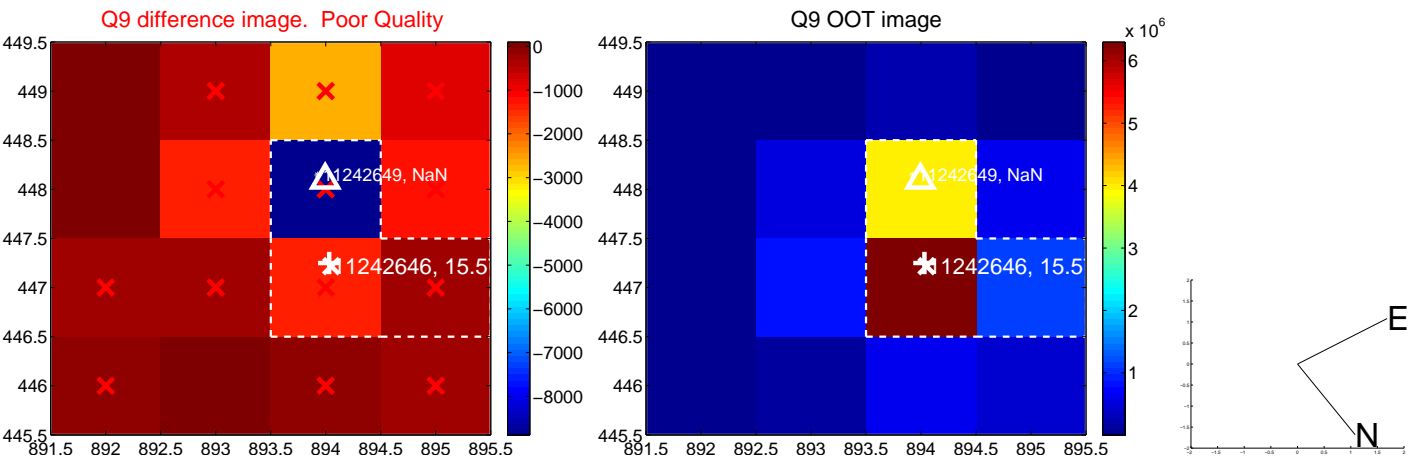
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



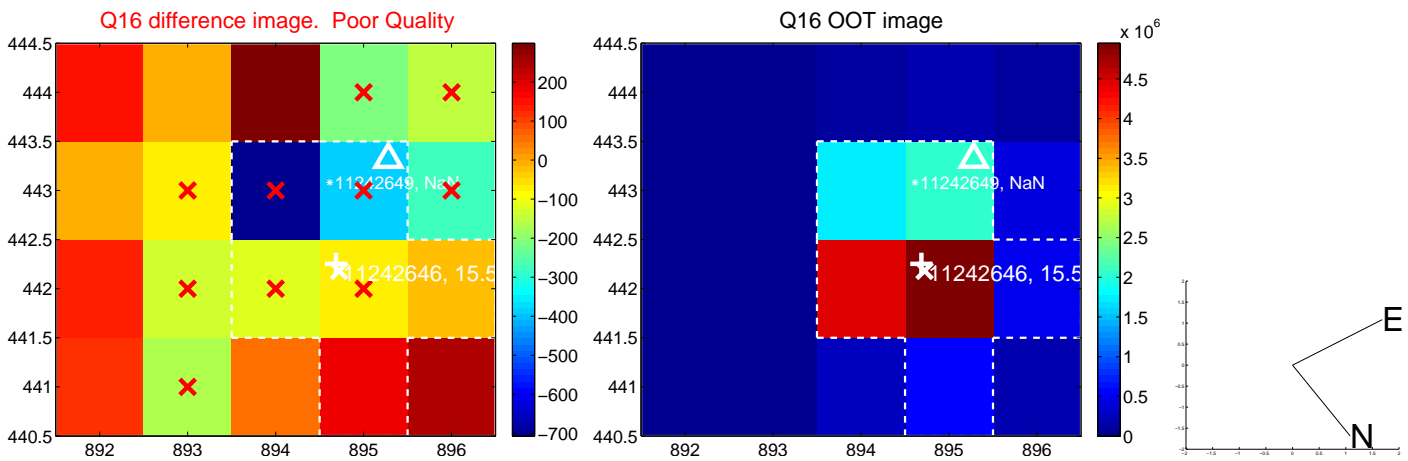
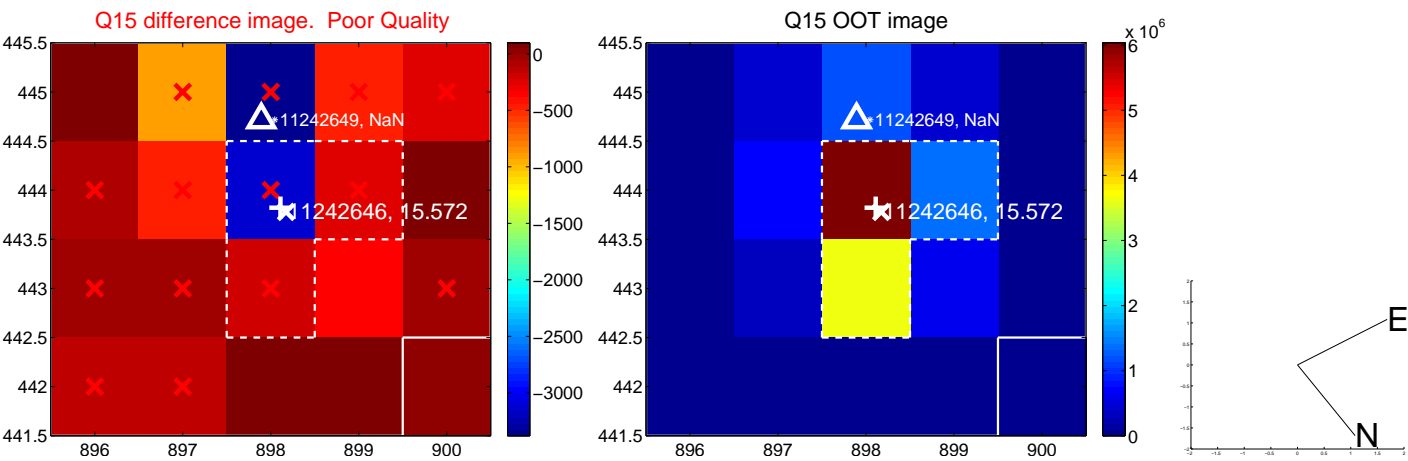
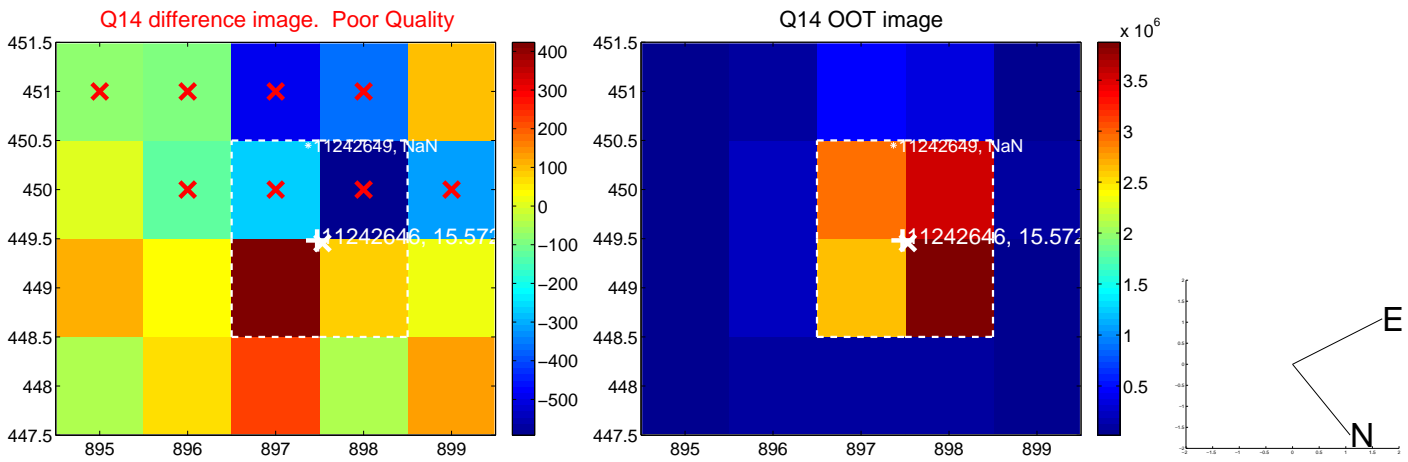
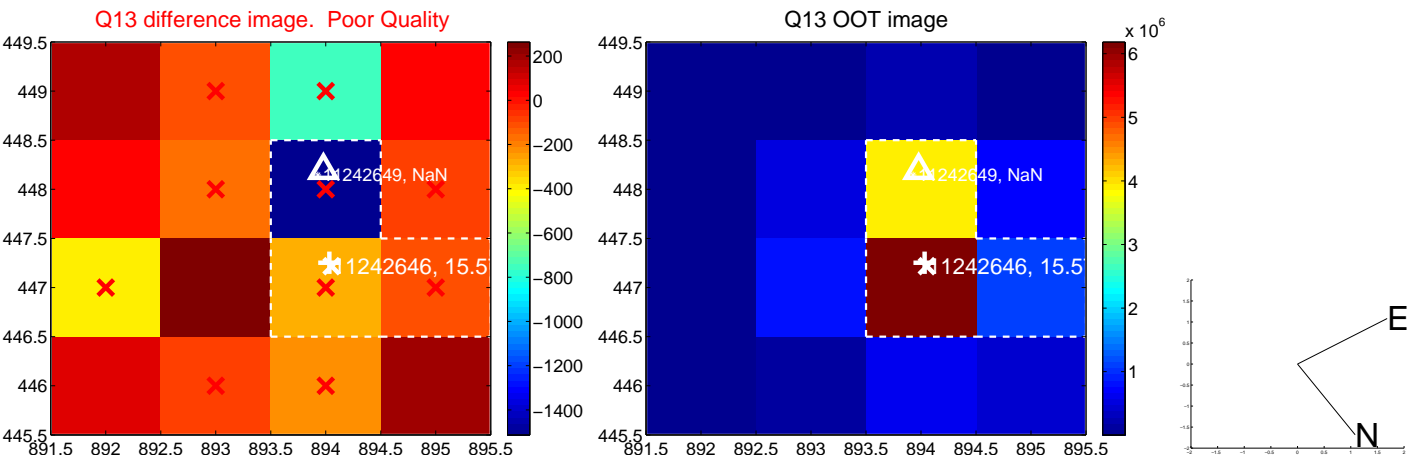
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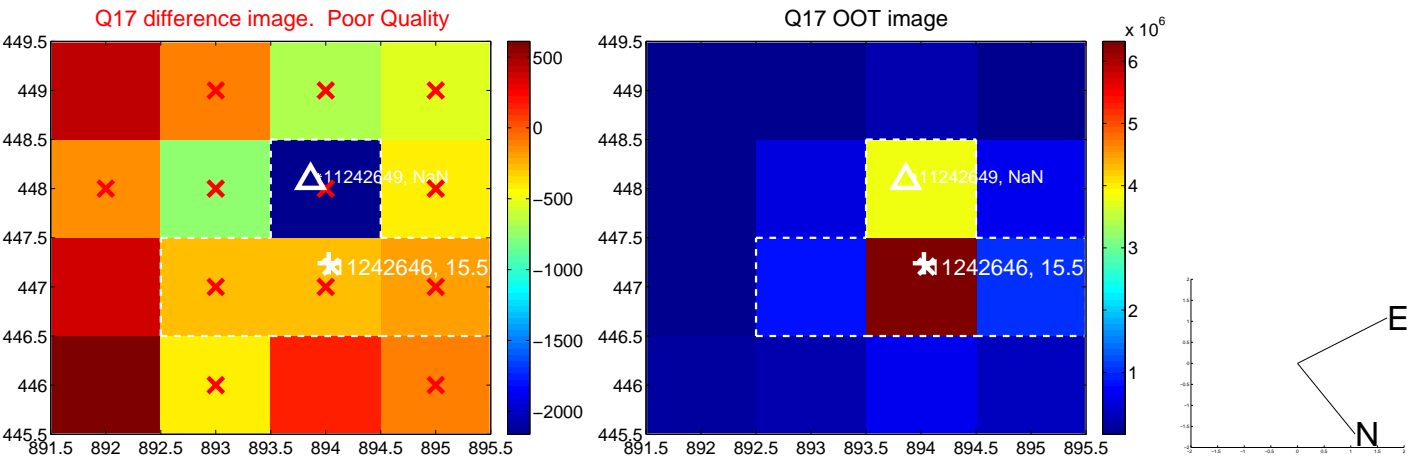
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folded centroid time series figure for this object.

UKIRT Image

Declination

