

KIC 011410261

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})
011410261-01	OBS	No	1.201922	131.931048	0.0	10.576	8.4	0.0	1.65	7255	0.03	10754.26

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011410261-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—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.

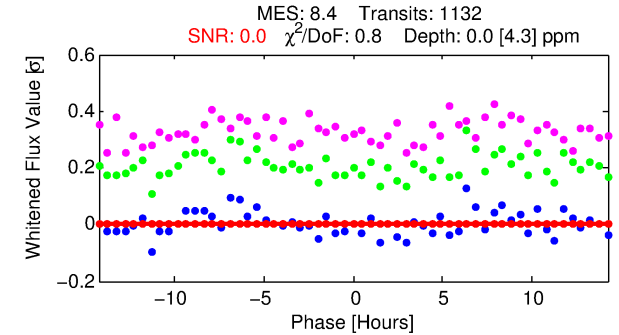
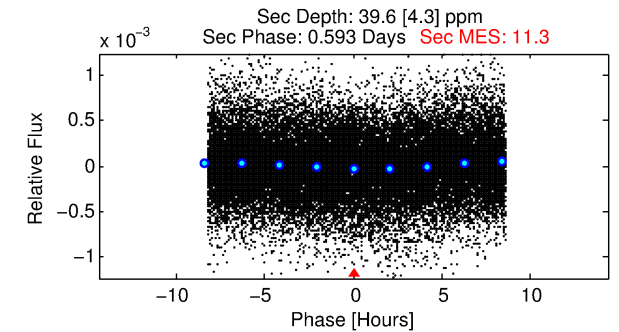
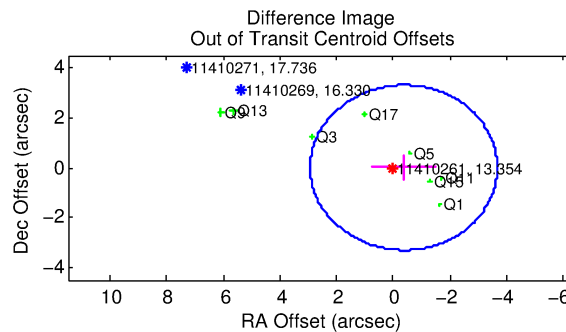
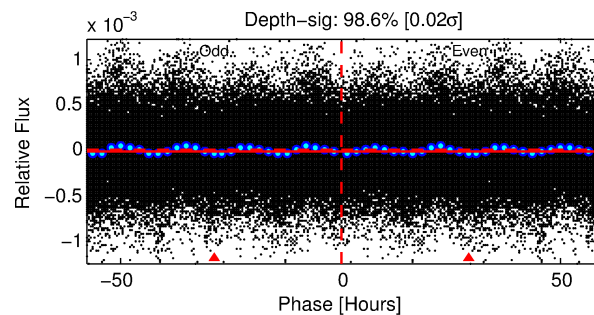
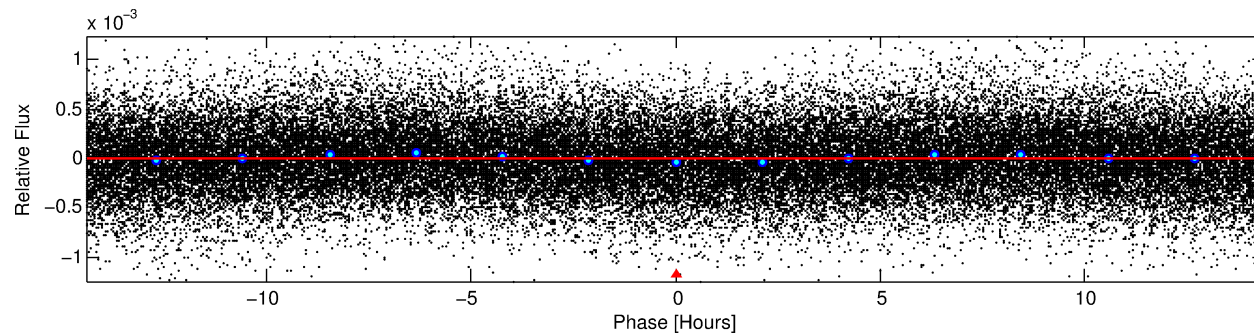
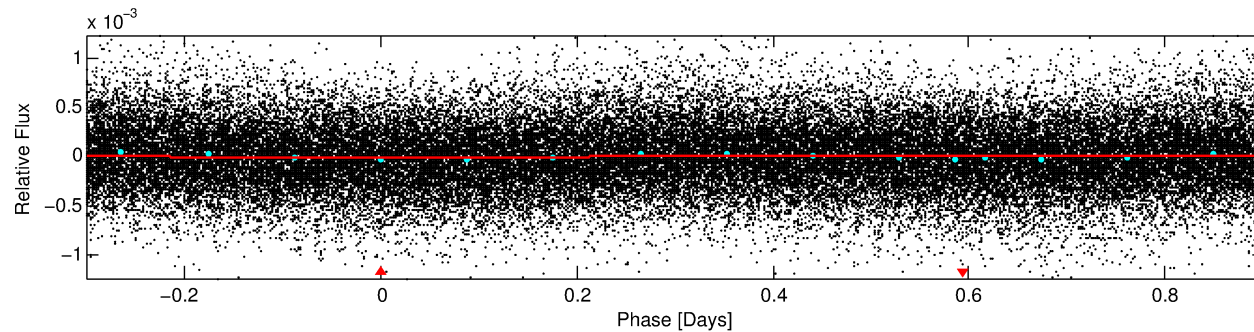
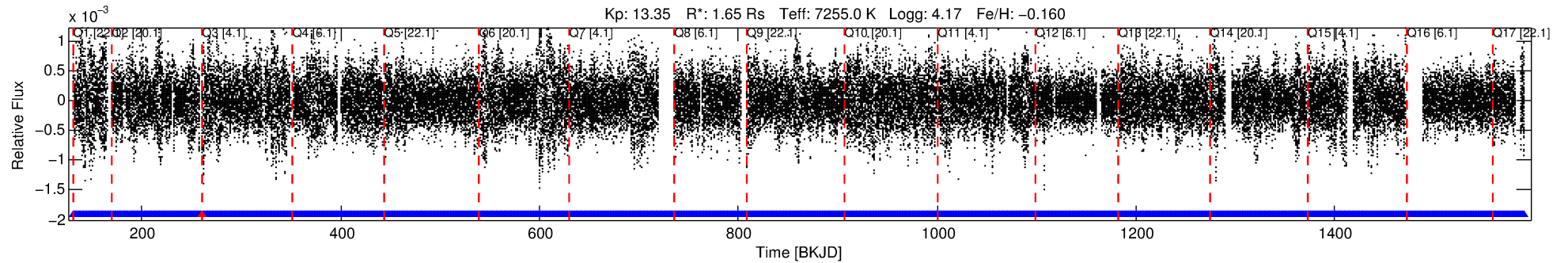
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011410261-01

No Significant Match Found

DV One-Page Summary

KIC: 11410261 Candidate: 1 of 1 Period: 1.202 d



DV Fit Results:

Period = 1.20192 [0.01395] d
Epoch = 131.9310 [3.1340] BKJD
Rp/R* = 0.0002 [0.0386]
a/R* = 1.09 [217.88]
b = 0.21 [5732.01]
Seff = 10754.26 [4513.33]
Teff = 2597 [272] K
Rp = 0.03 [6.94] Re
a = 0.0250 [0.0068] AU
Ag = 12385.49 [5180488.80] [0.00 σ]
Teffp = 42354 [4428852] K [0.01 σ]

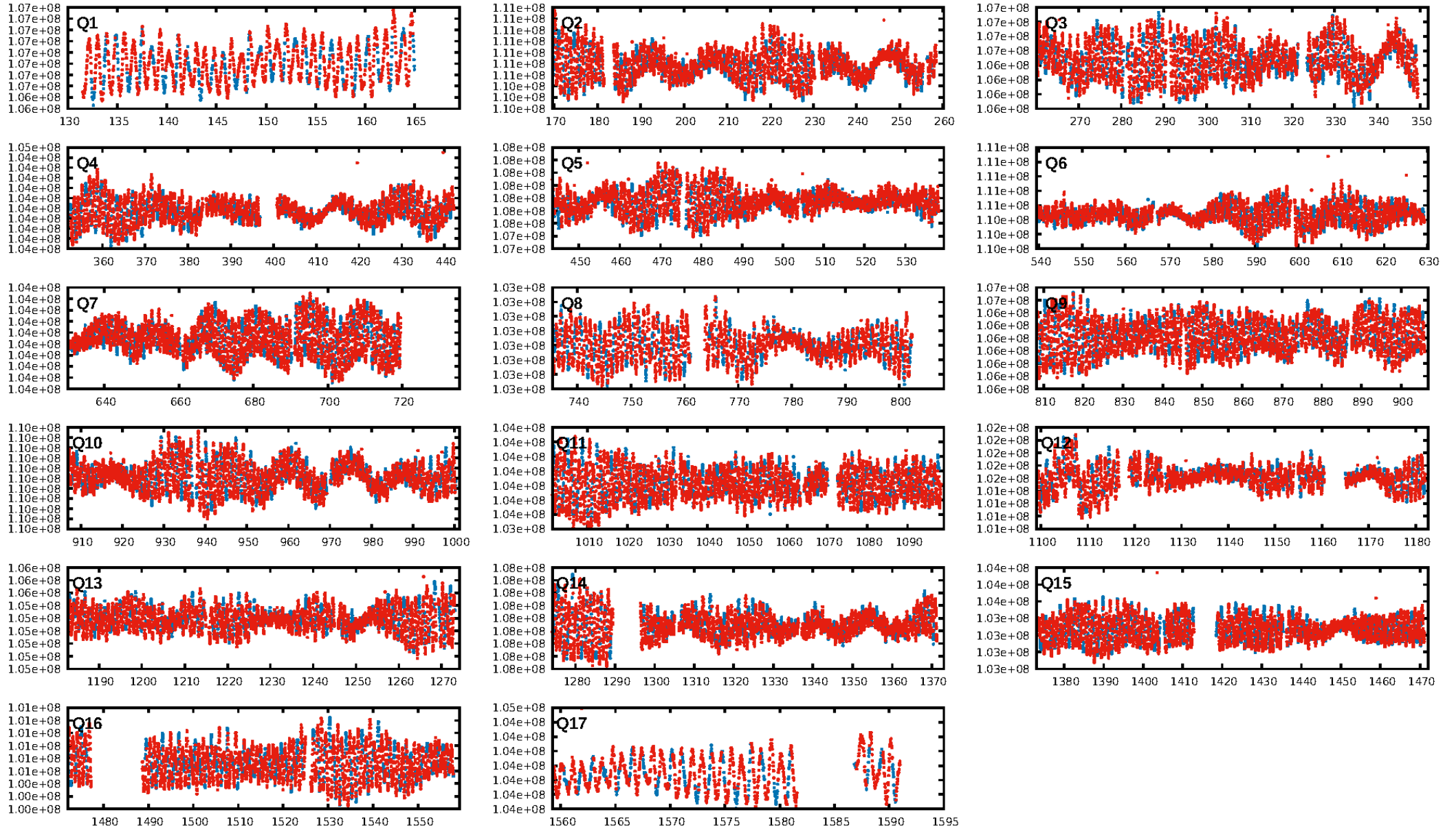
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1080/1081]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.375 arcsec [0.34 σ]
KicOffset-rm: 0.297 arcsec [0.29 σ]
OotOffset-st: 0/3/0/5 [8]
KicOffset-st: 0/3/0/5 [8]
DiffImageQuality-fgm: 0.50 [4/8]
DiffImageOverlap-fno: 1.00 [17/17]

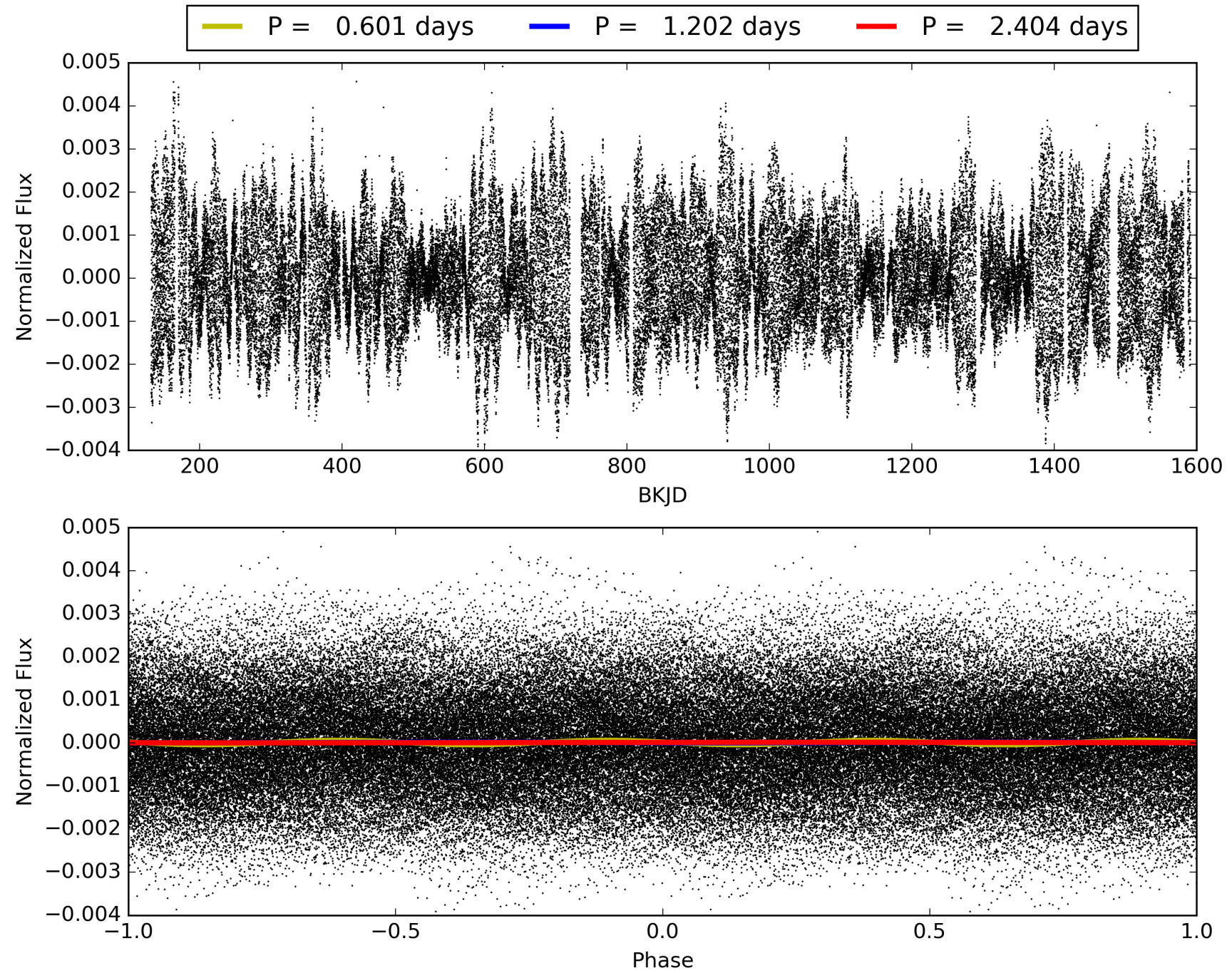
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 22:16:56 Z

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

TCE 011410261-01, PDC Light Curves

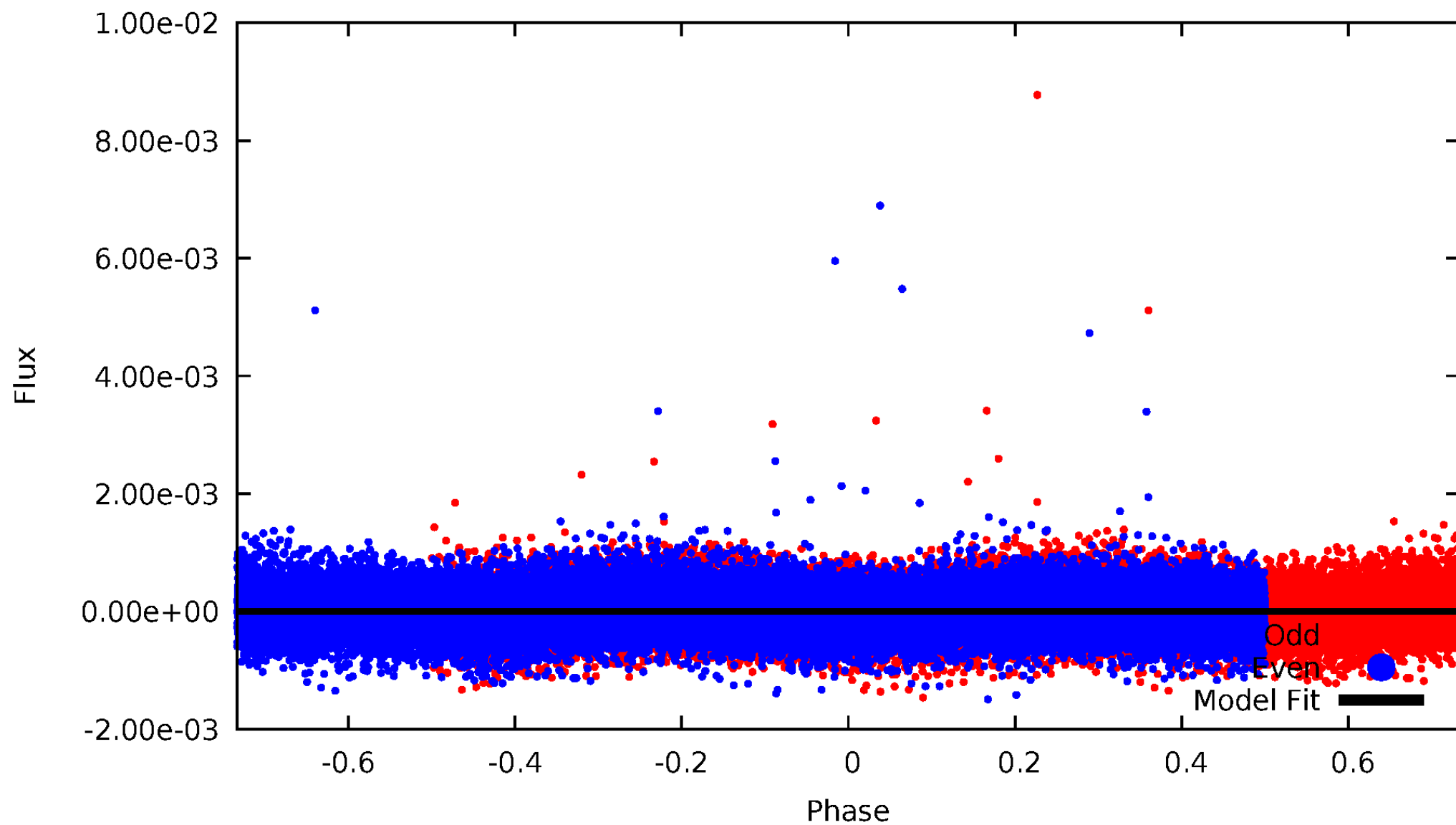


TCE 011410261-01



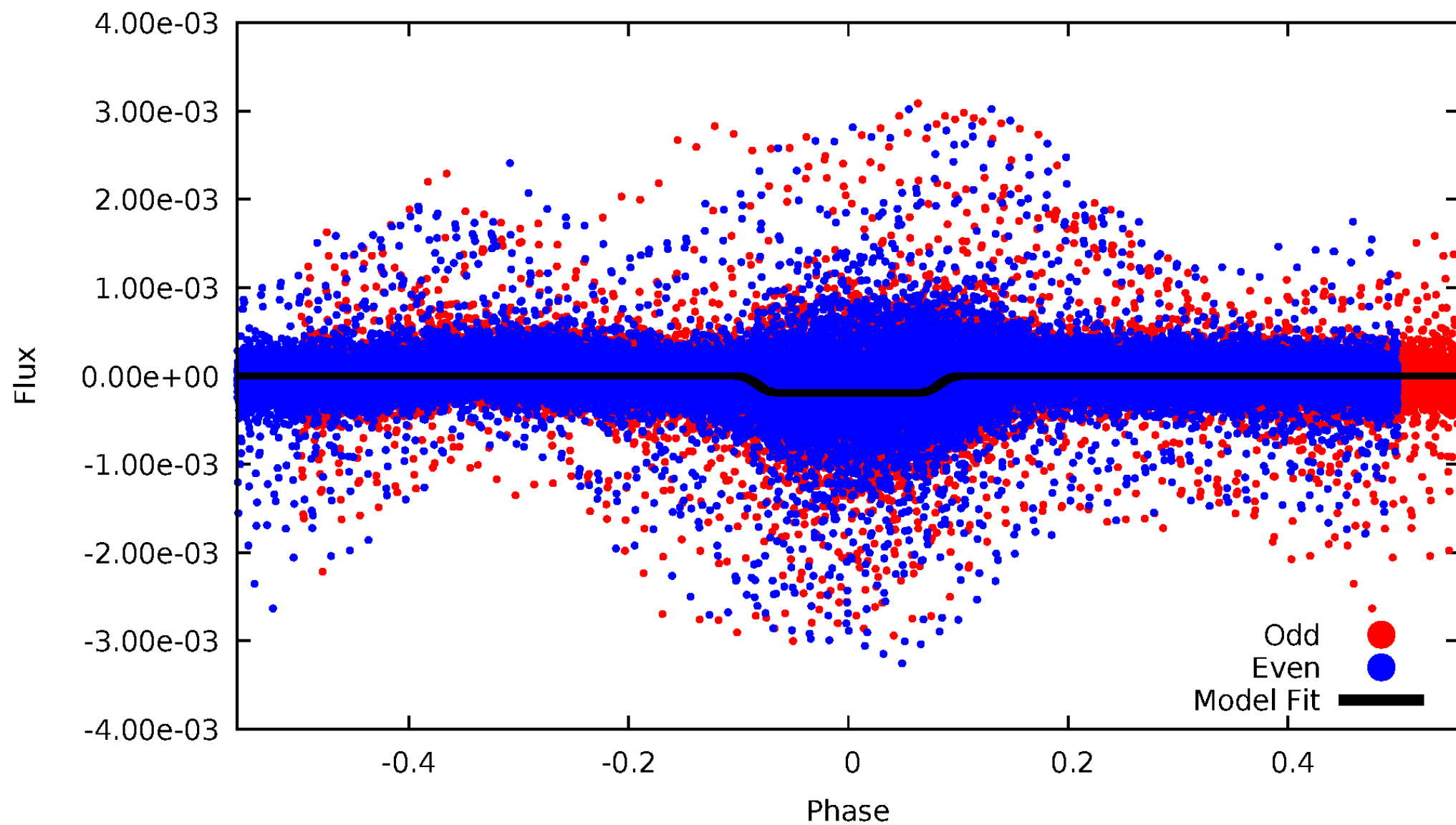
DV Odd/Even

TCE 011410261-01

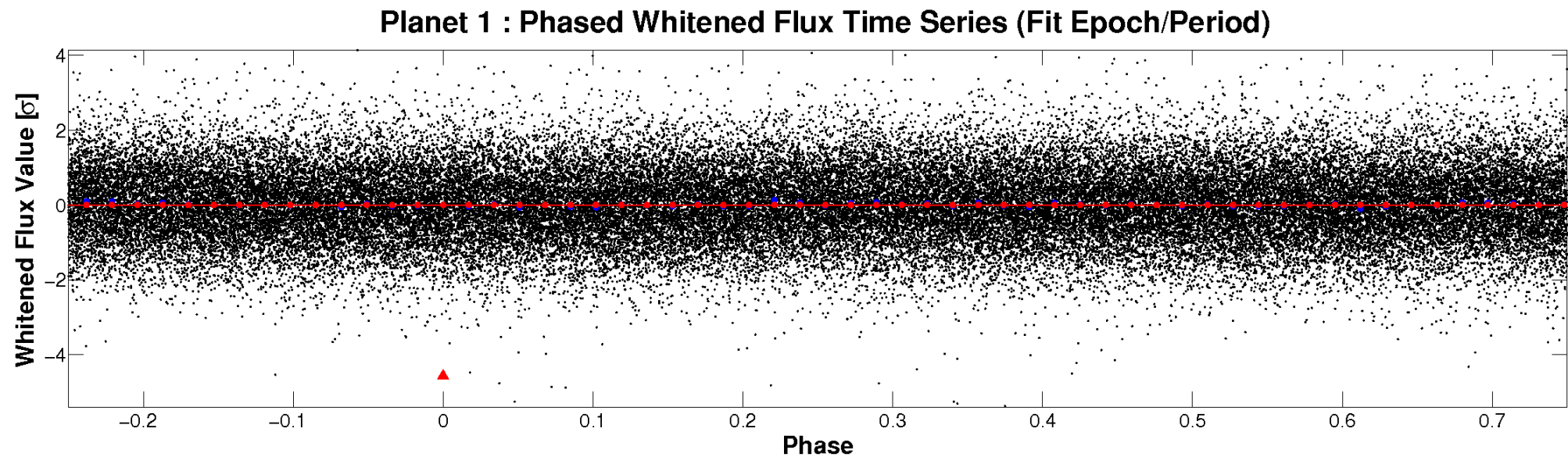
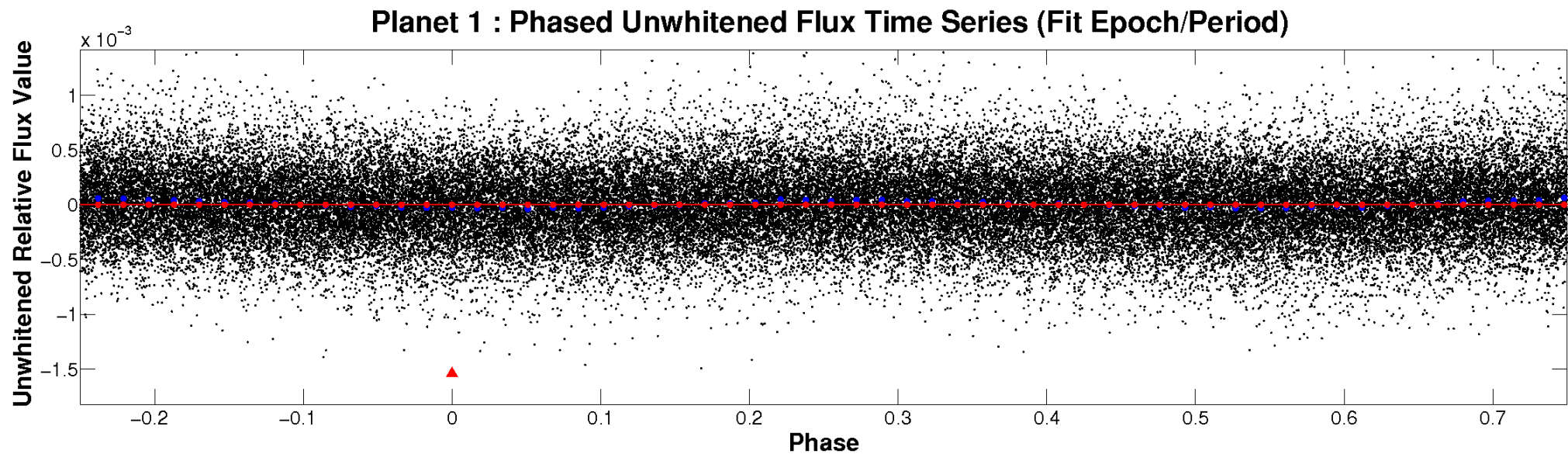


ALT Odd/Even

TCE 011410261-01

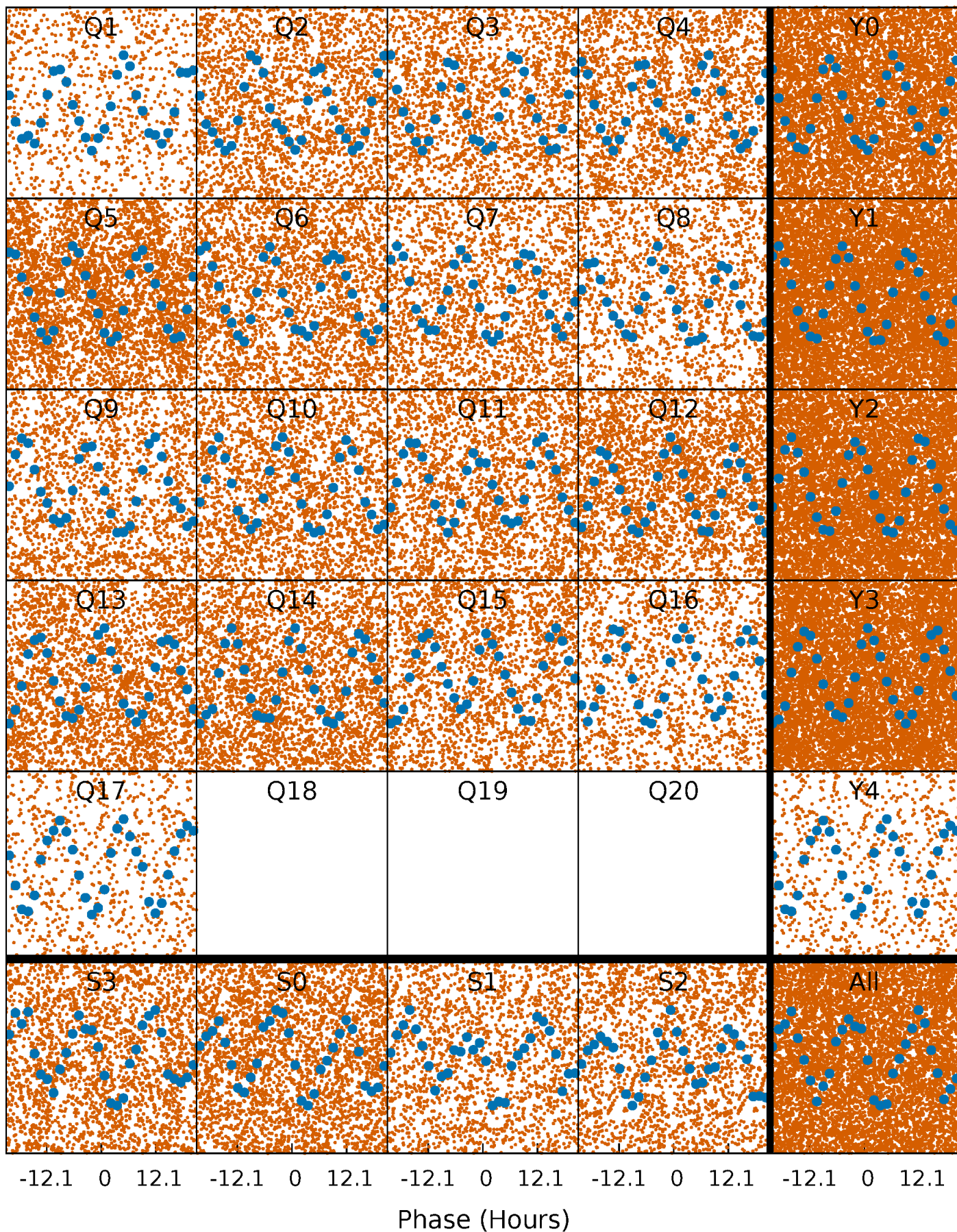


Non-Whitened Vs. Whitened Light Curve



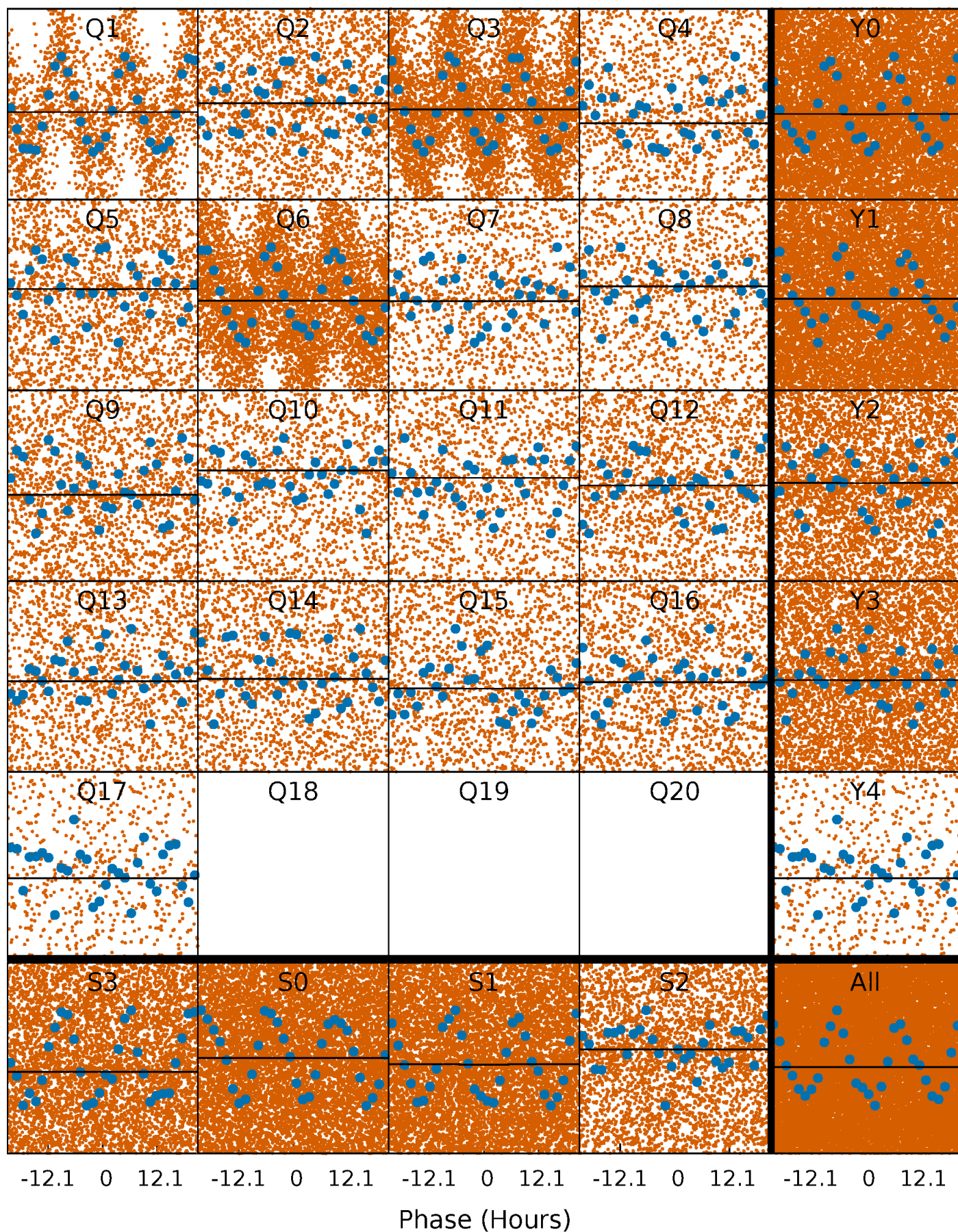
PDC Quarter-Phased Transit Curves

TCE 011410261-01 P= 1.201922 Days $T_0=131.931048$ (BKJD)



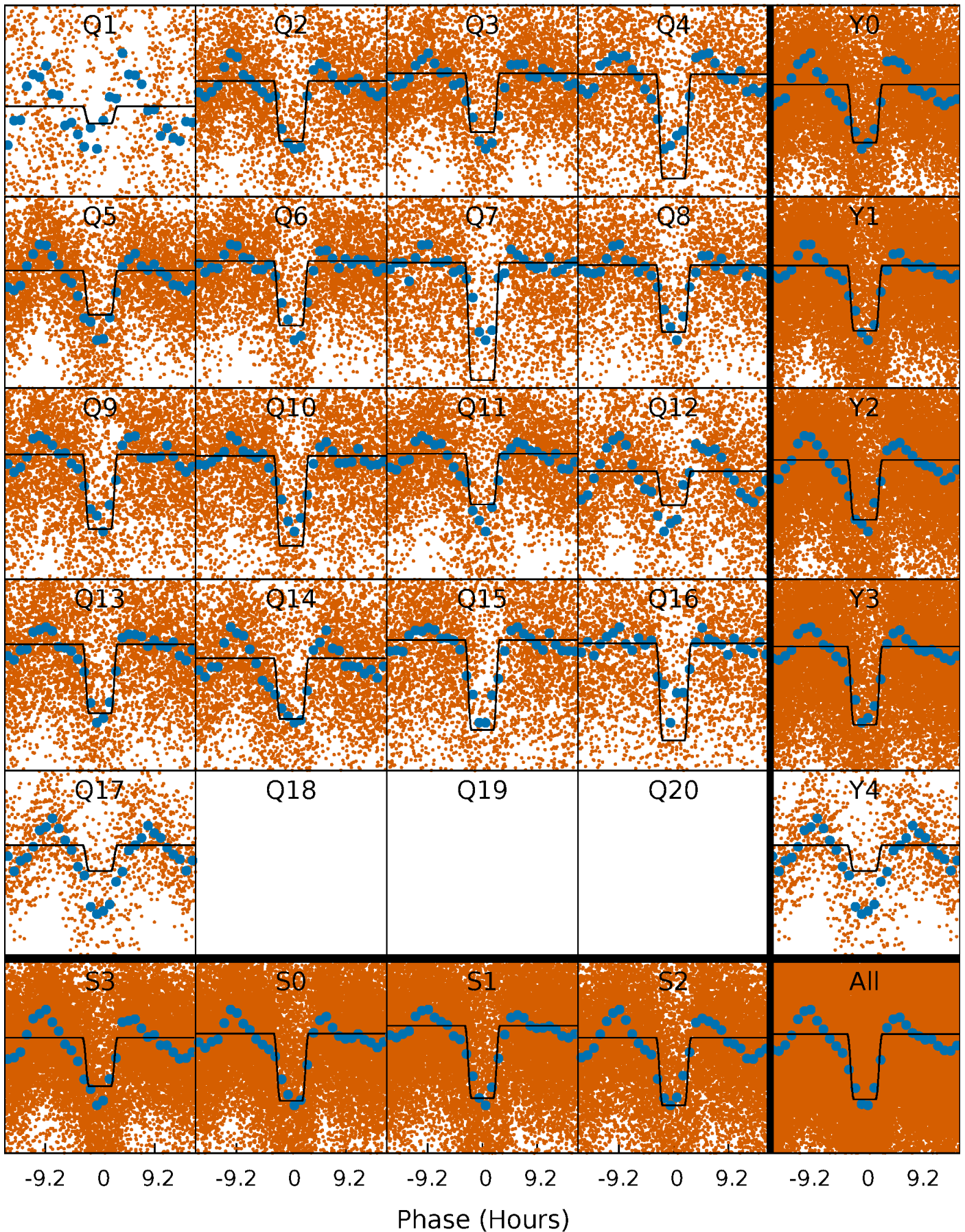
DV Quarter-Phased Transit Curves

TCE 011410261-01 P= 1.201922 Days $T_0=131.931048$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

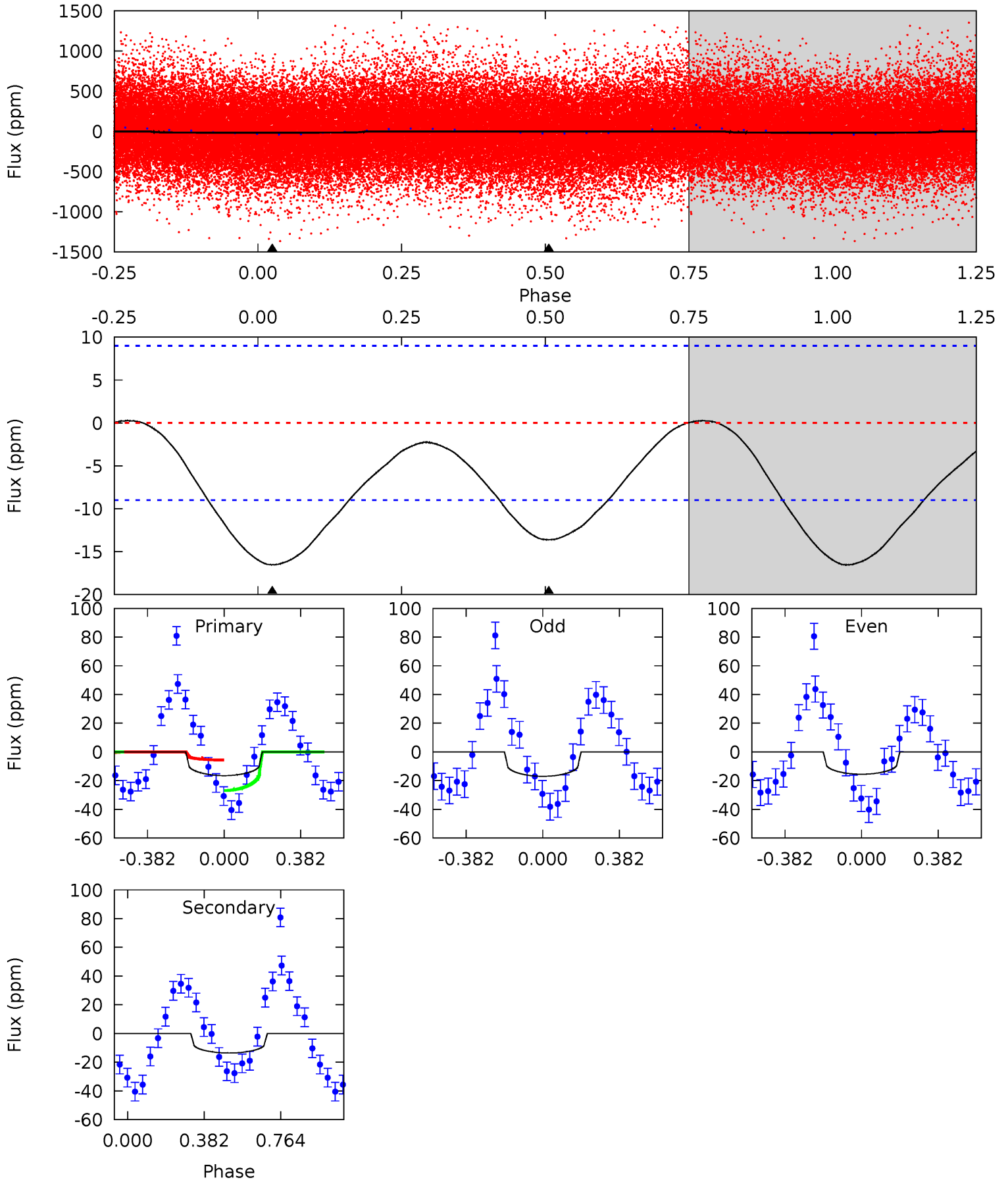
TCE 011410261-01 P= 1.202331 Days $T_0=131.947151$ (BKJD)



DV Model-Shift Uniqueness Test

011410261-01, P = 1.201922 Days, E = 130.729126 Days

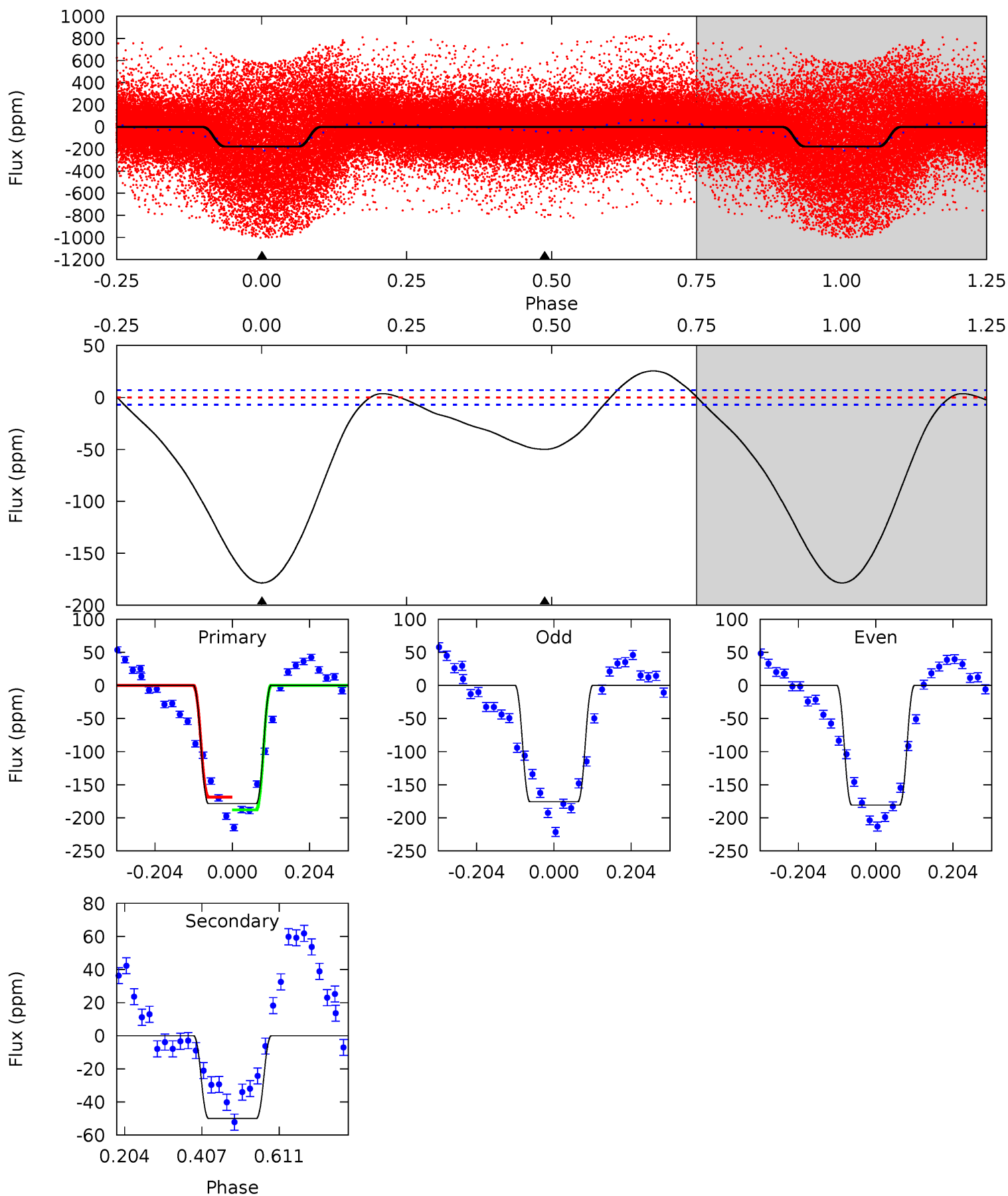
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.87	6.47	0	0	4.28	0.87	0.65	7.87	7.87	6.47	6.47	0.35	1.39	0.02	5.24



Alt Model-Shift Uniqueness Test

011410261-01, P = 1.202331 Days, E = 130.744820 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
113.6	31.8	0	0	4.41	1.27	7.60	113.6	113.6	31.8	31.8	1.59	1.11	0.13	6.19



Stellar Parameters For KIC 011410261

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7255^{+228}_{-330}	$4.165^{+0.132}_{-0.198}$	$-0.160^{+0.250}_{-0.350}$	$1.648^{+0.555}_{-0.341}$	$1.450^{+0.211}_{-0.234}$	$0.457^{+0.288}_{-0.235}$
	+3%/-5%	+3%/-5%	+156%/-219%	+34%/-21%	+15%/-16%	+63%/-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 011410261-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-14 ± 2	$4.76^{+5.61}_{-3.40}$	3661^{+307}_{-231}	-2889^{+7840}_{-522}	$0.198^{+2.169}_{-0.155}$
Alt.	-50 ± 2	$5.70^{+5.99}_{-3.97}$	3660^{+297}_{-251}	3308^{+2742}_{-6493}	$0.541^{+5.105}_{-0.414}$

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 $A_{obs} \gg 1.0$

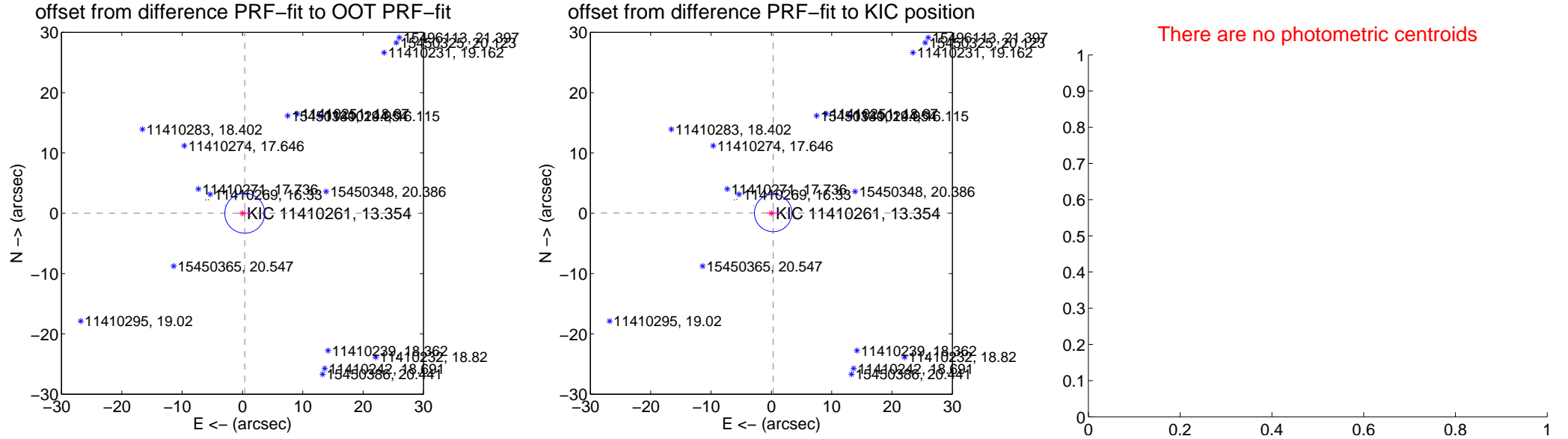
DV Centroid Data

Supplemental centroid analysis for 011410261-01. Kepler magnitude: 13.35. Transit SNR 0.01

There are 4 quarters with good PRF difference image offsets

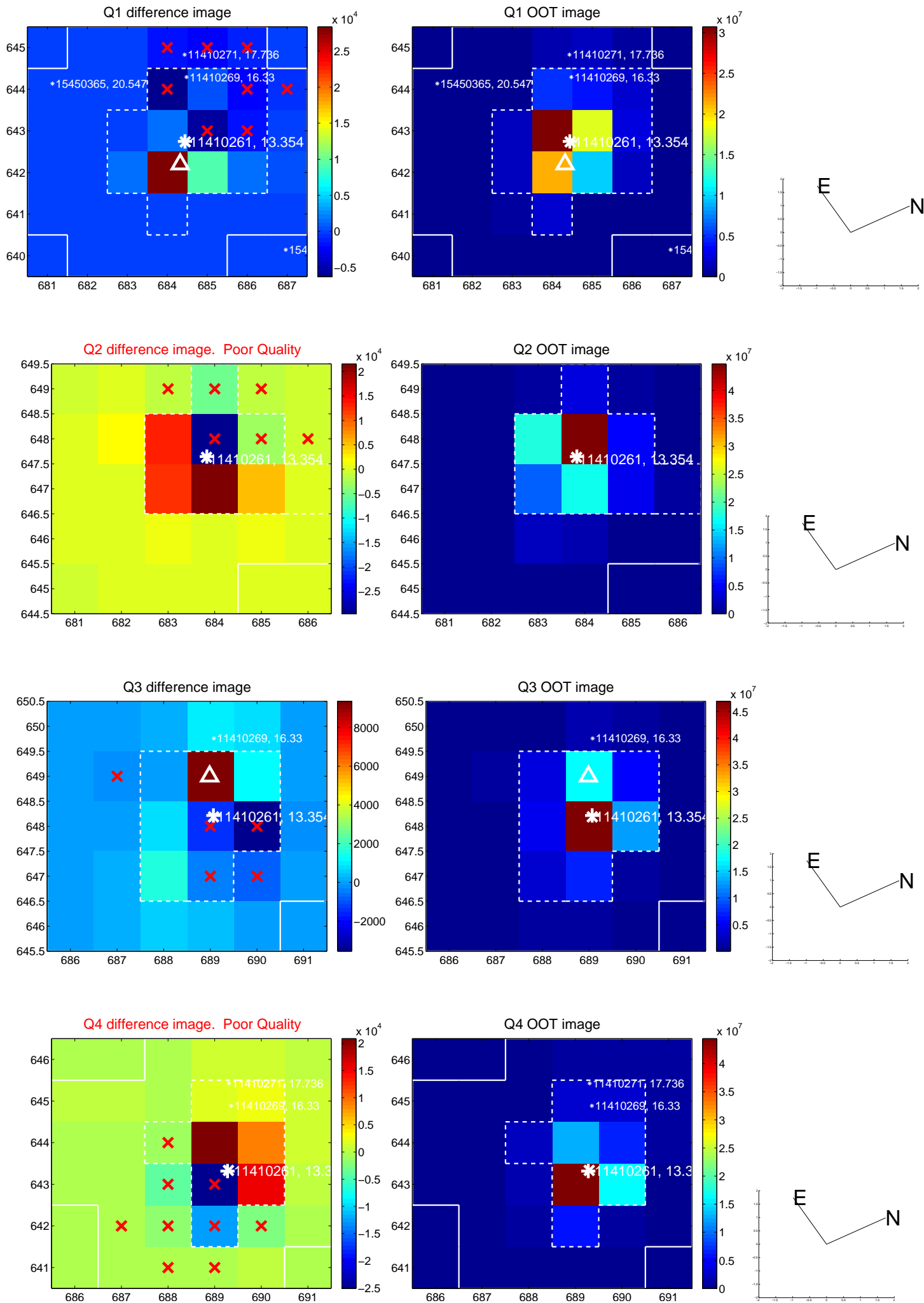
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.375 ± 1.102	0.34	-0.375 ± 1.104	0.001 ± 0.482
PRF-fit source offset from KIC position	0.297 ± 1.033	0.29	-0.295 ± 1.094	0.040 ± 0.479
photometric centroid source offset	—	—	—	—

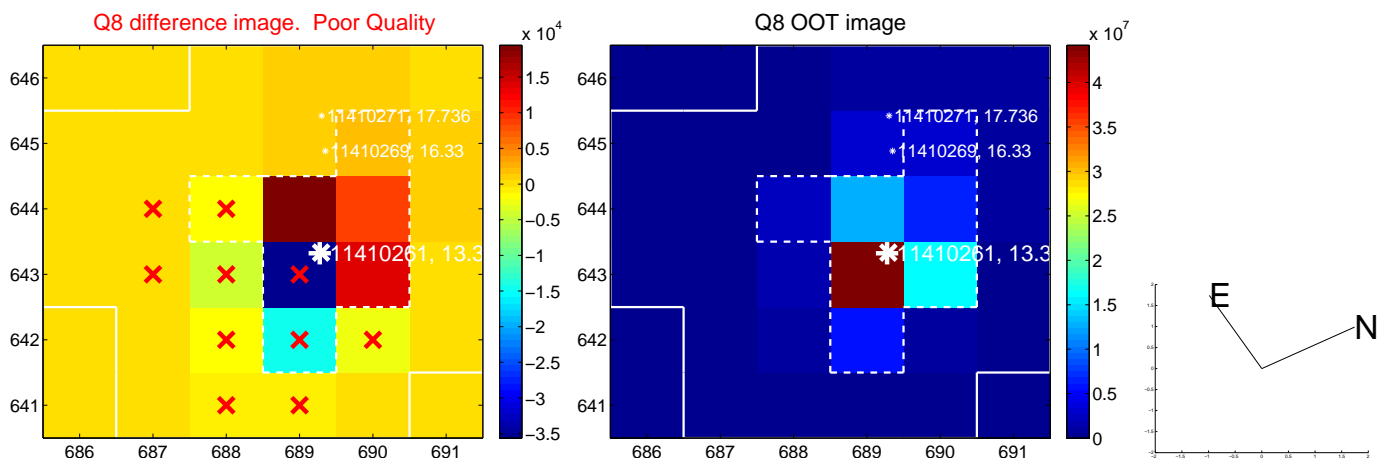
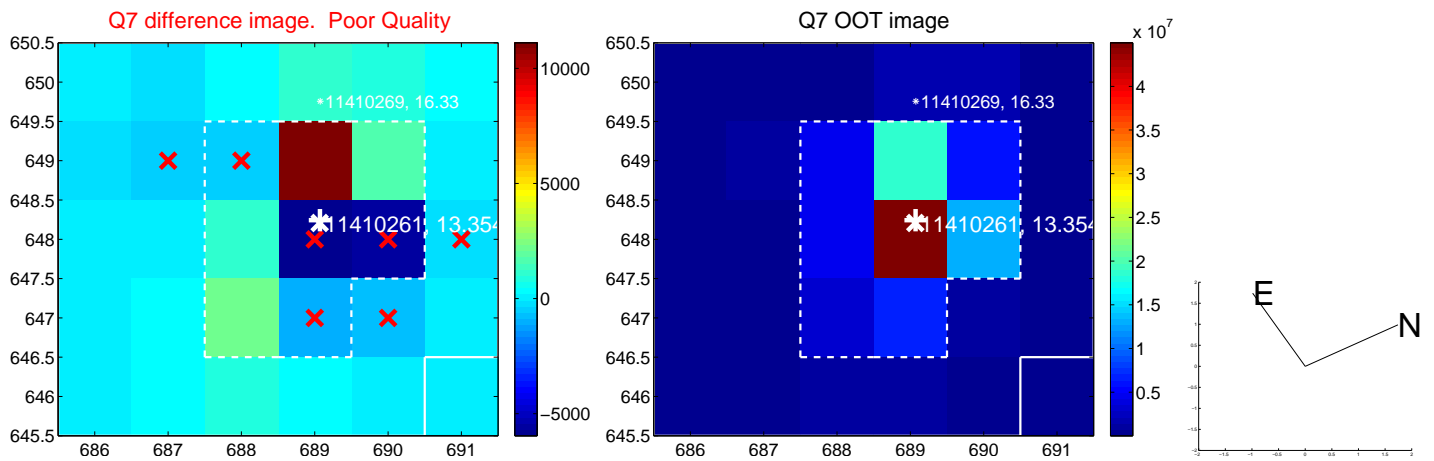
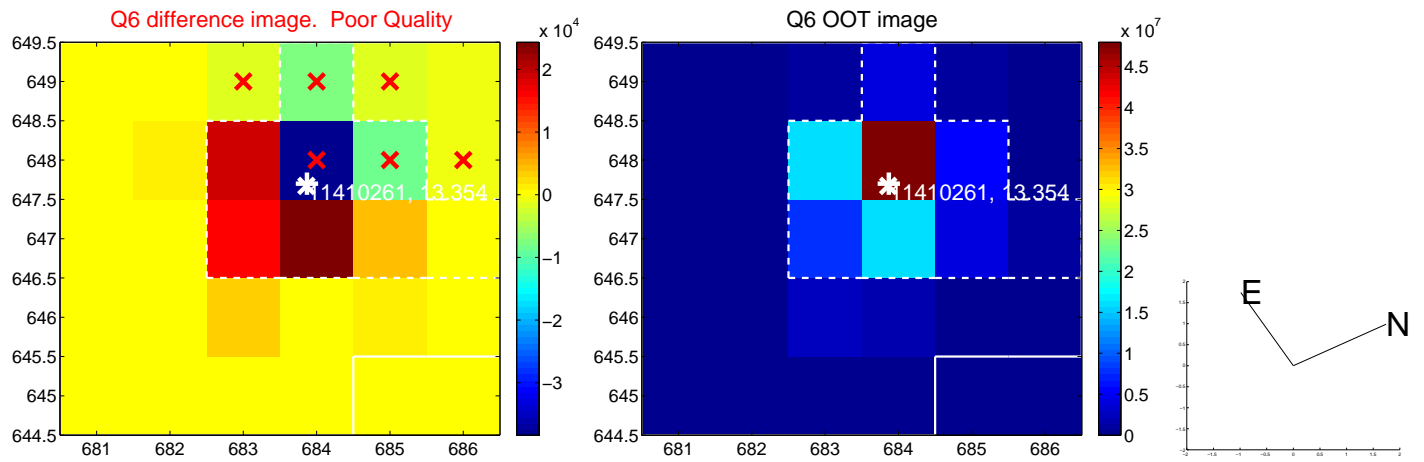
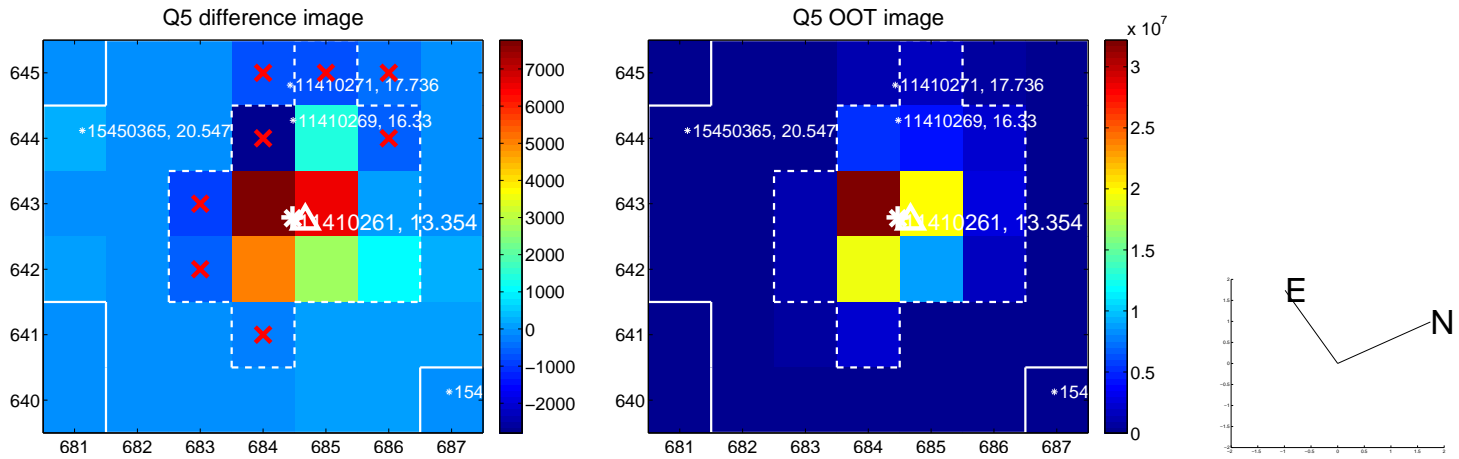


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

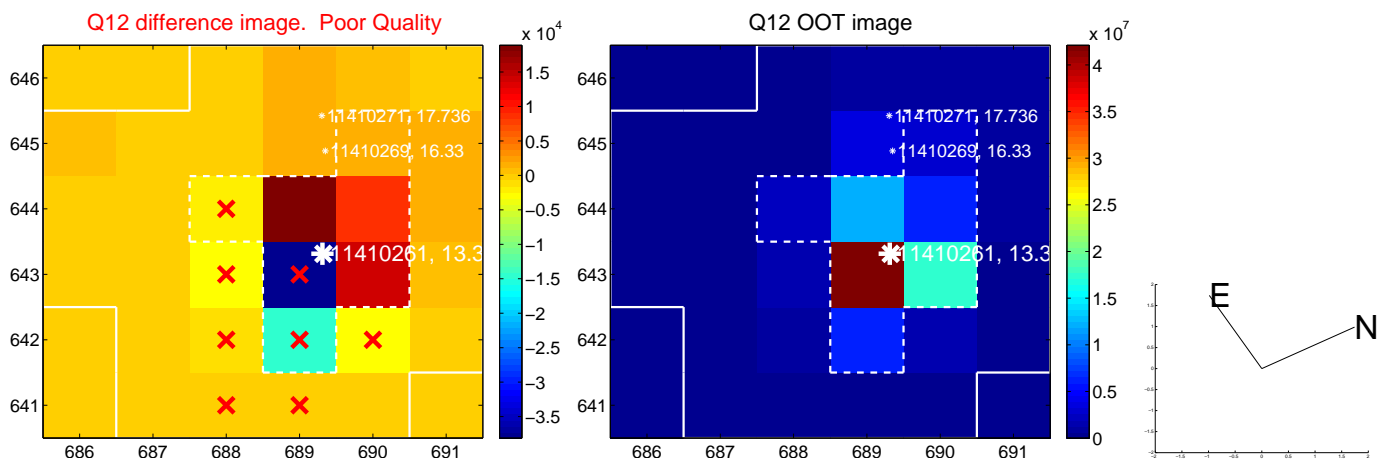
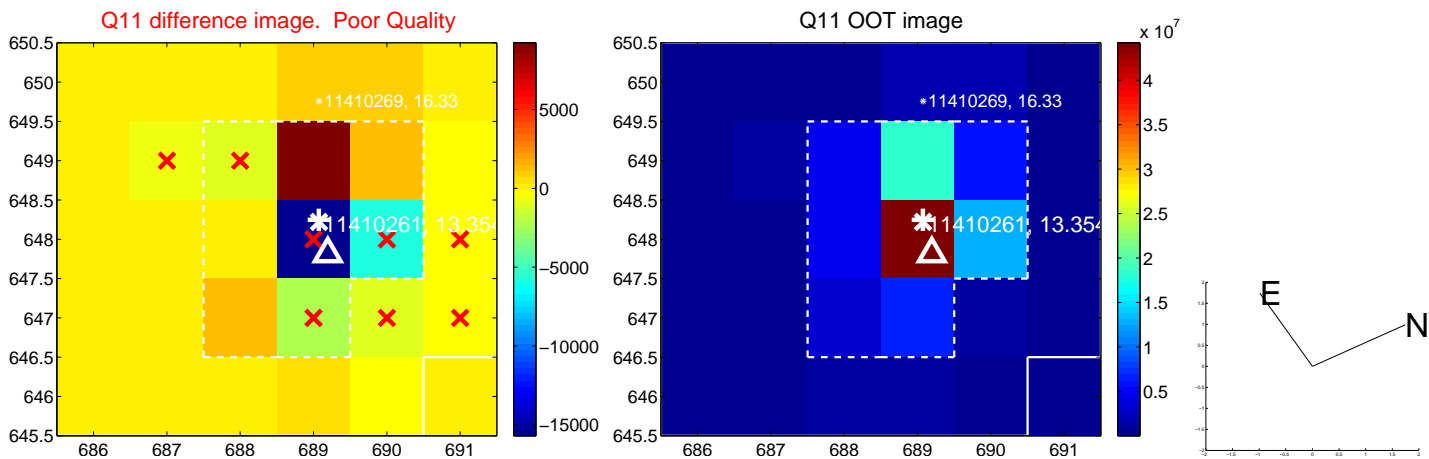
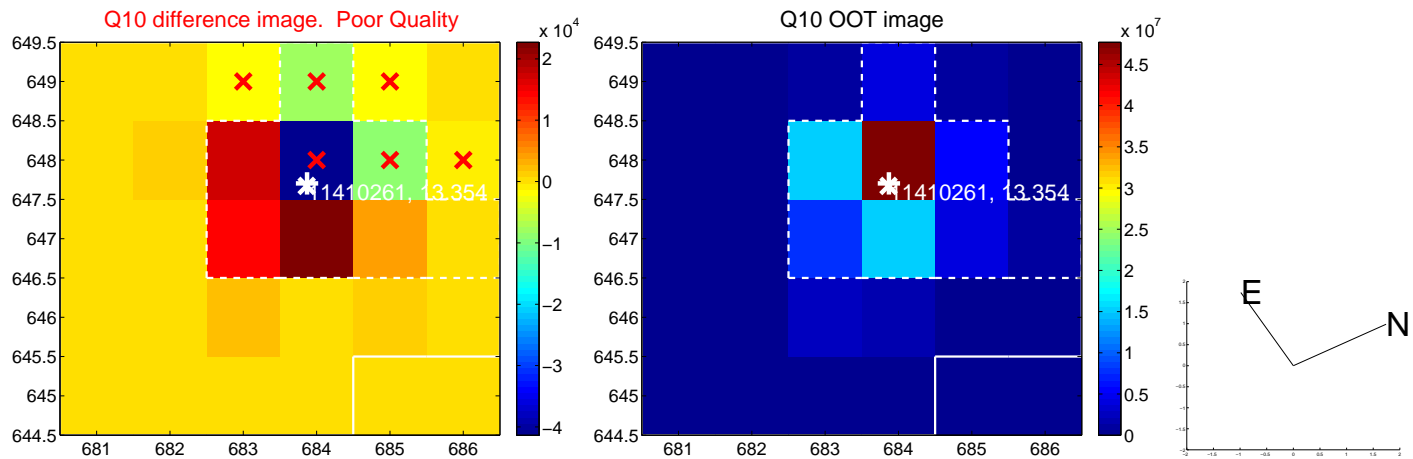
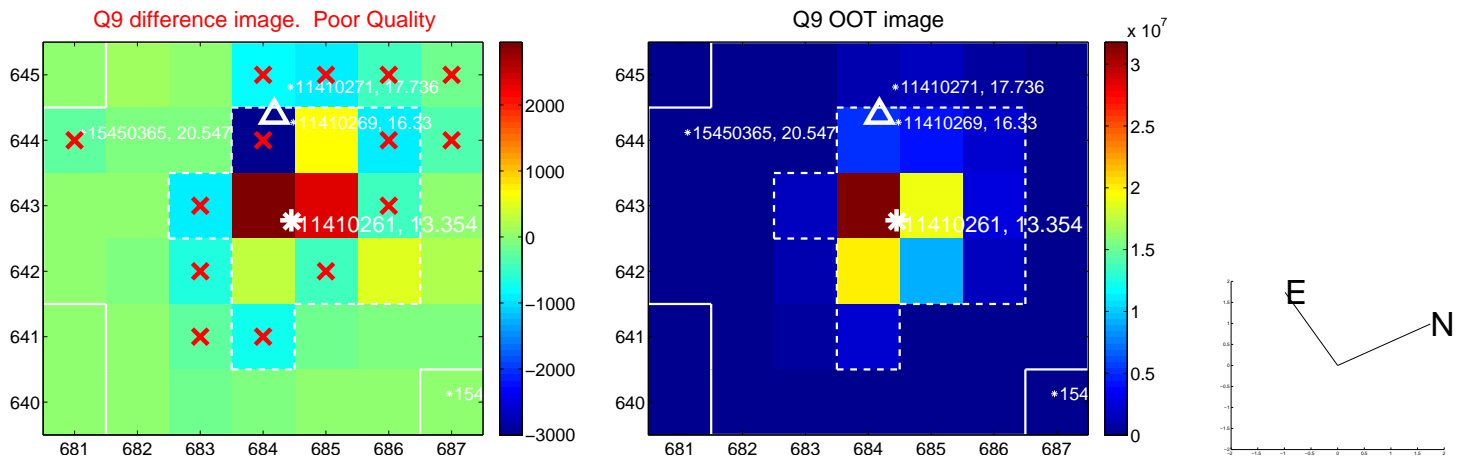
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



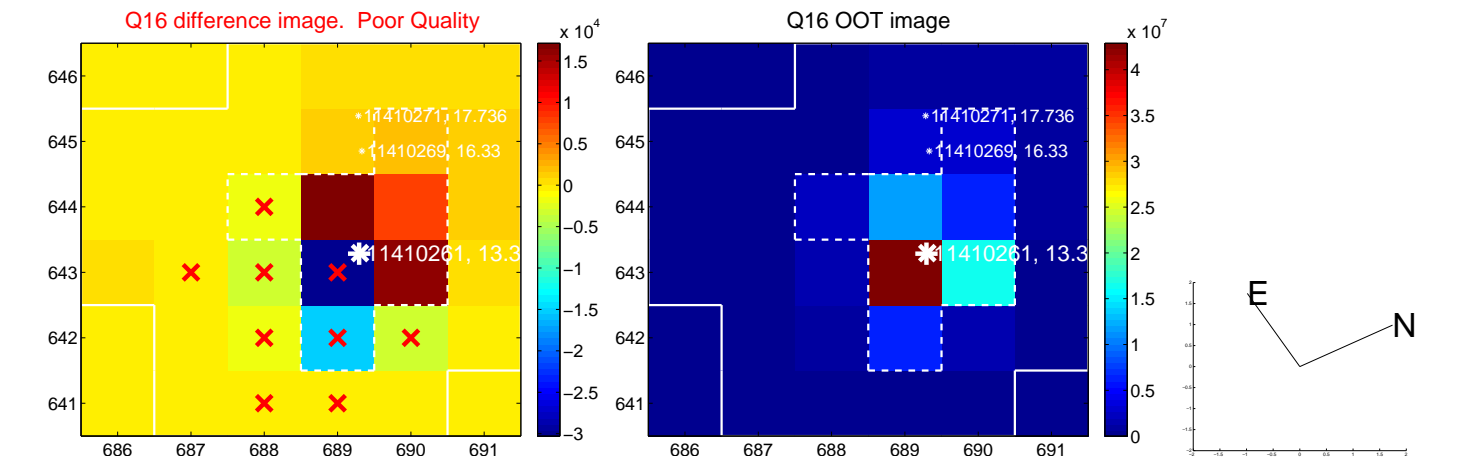
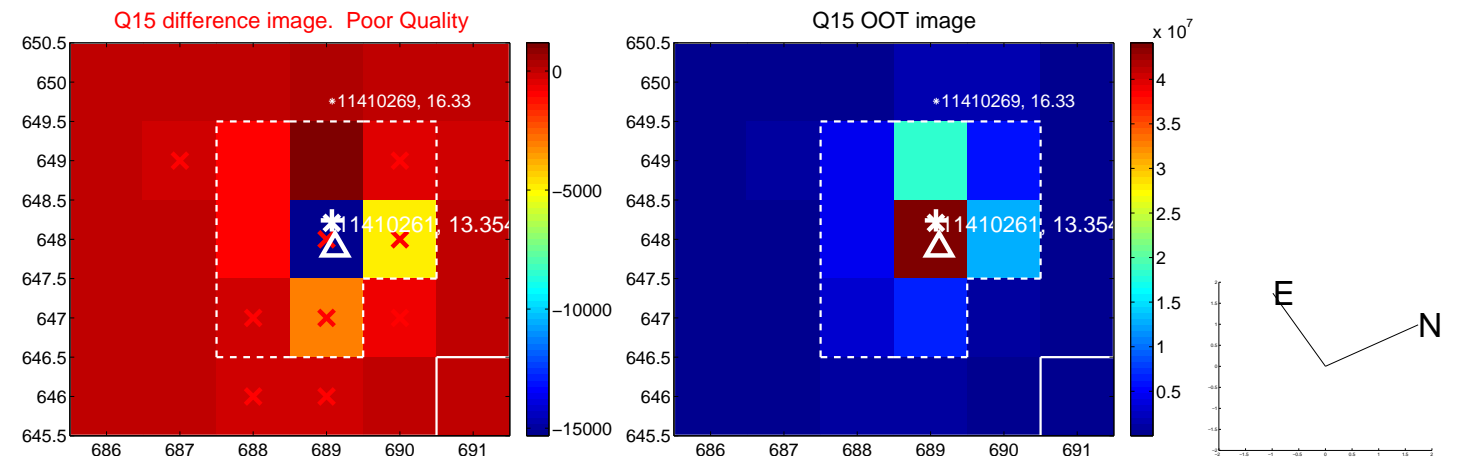
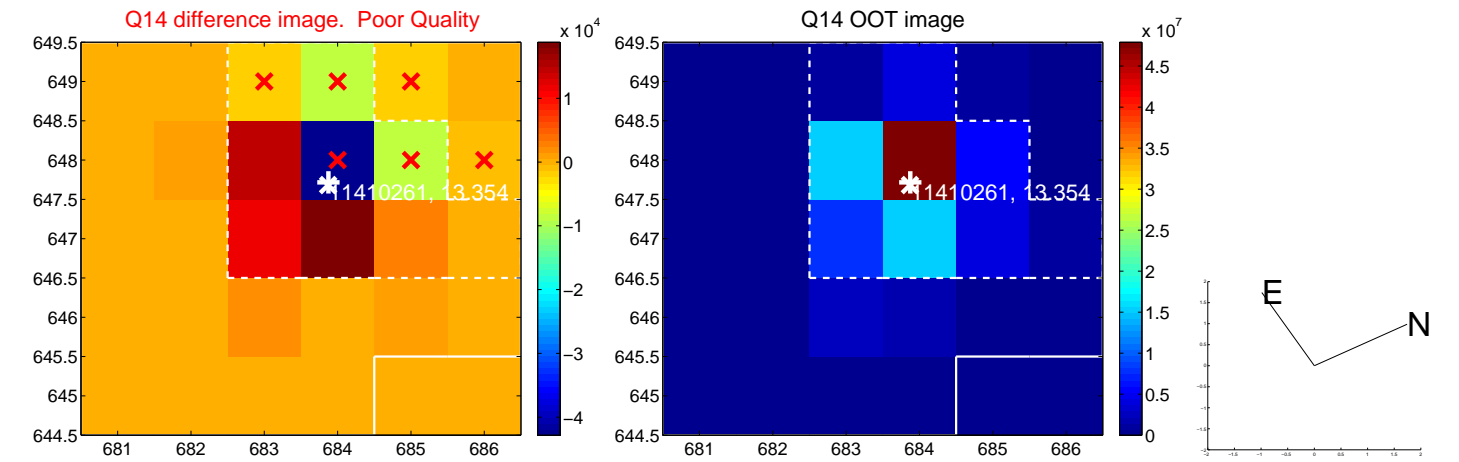
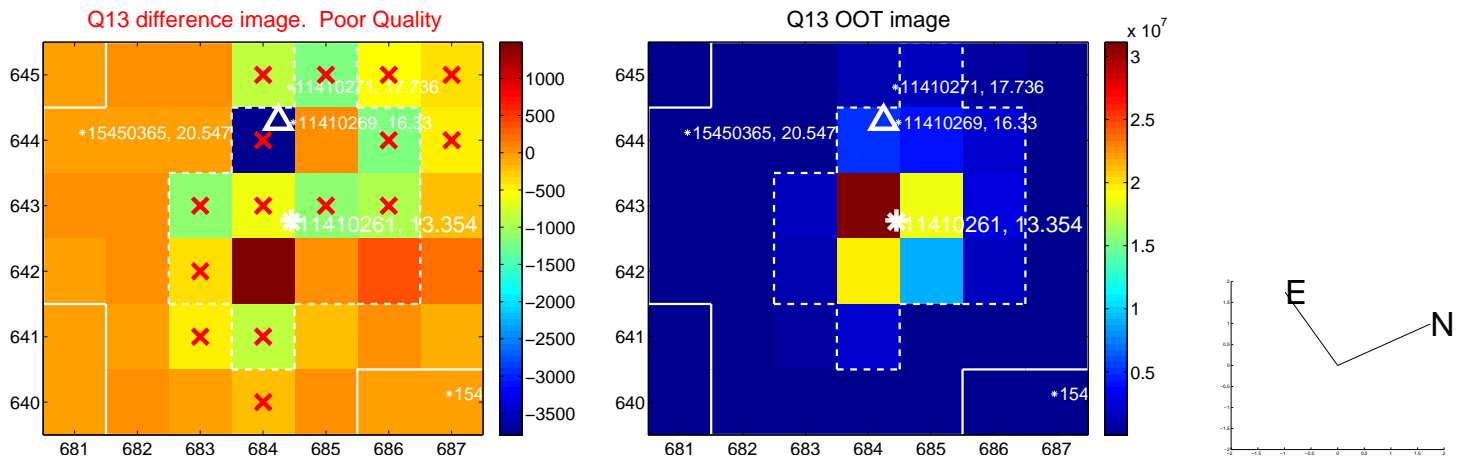
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



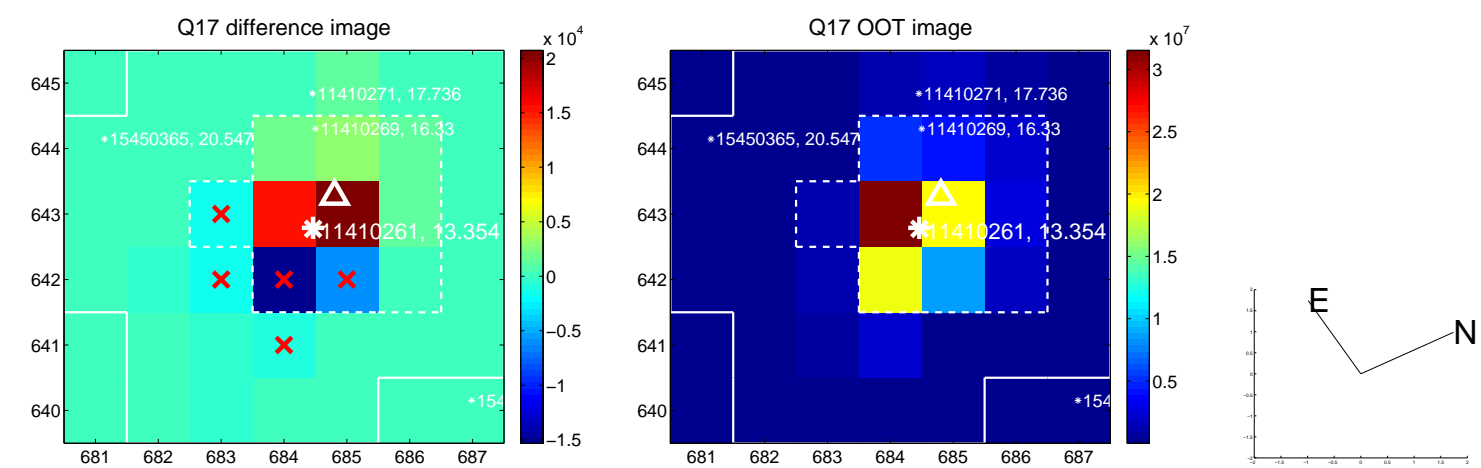
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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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

