

KIC 005565247

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})
005565247-01	OBS	No	5.964344	136.217524	95.9	15.000	8.7	-1.0	1.16	6410	1.14	491.71

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005565247-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS

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

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

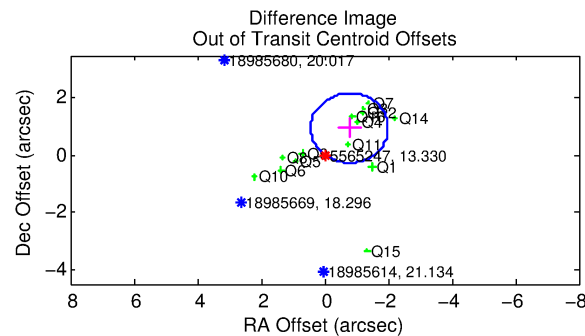
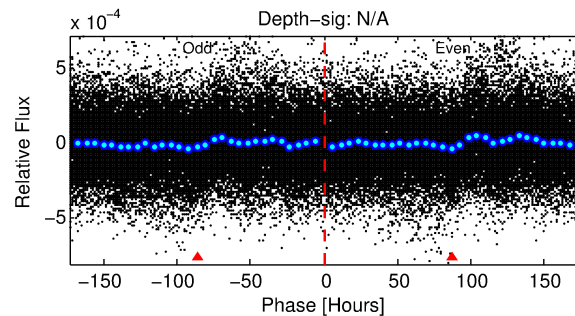
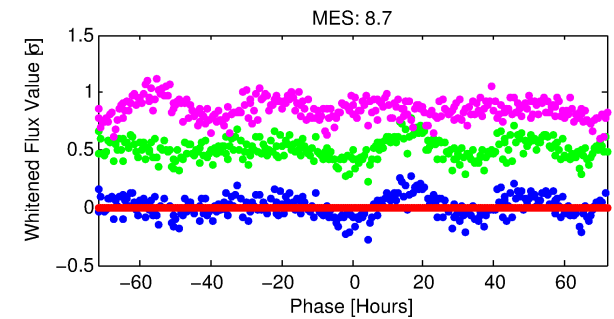
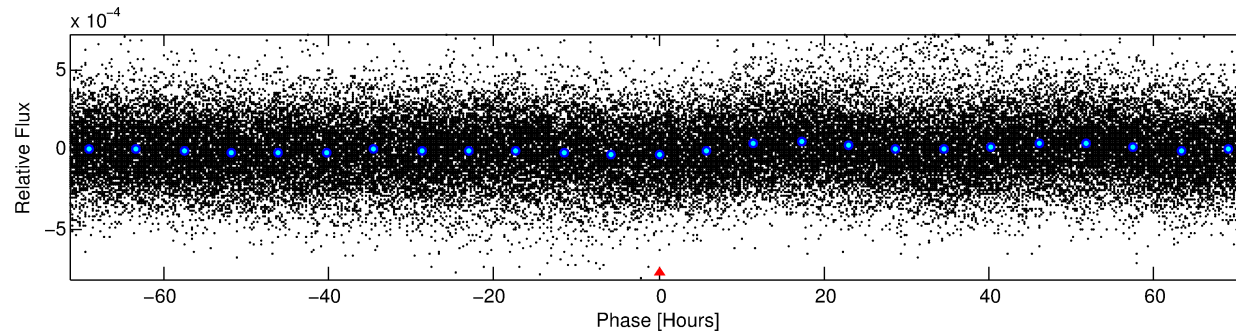
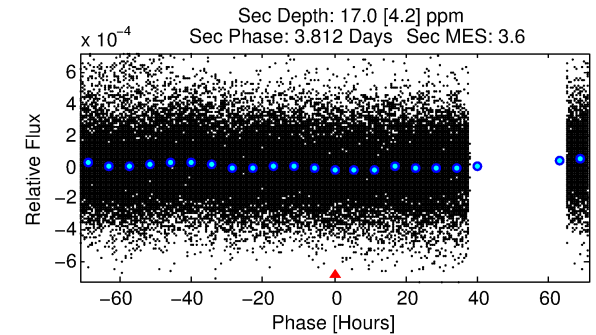
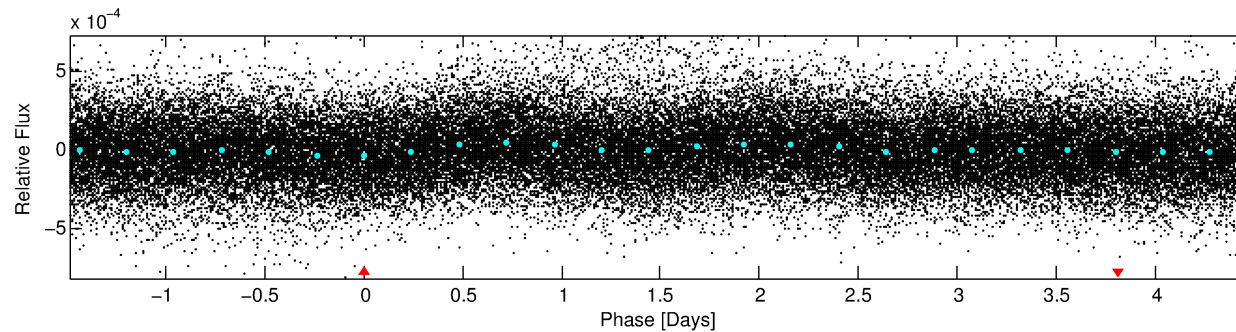
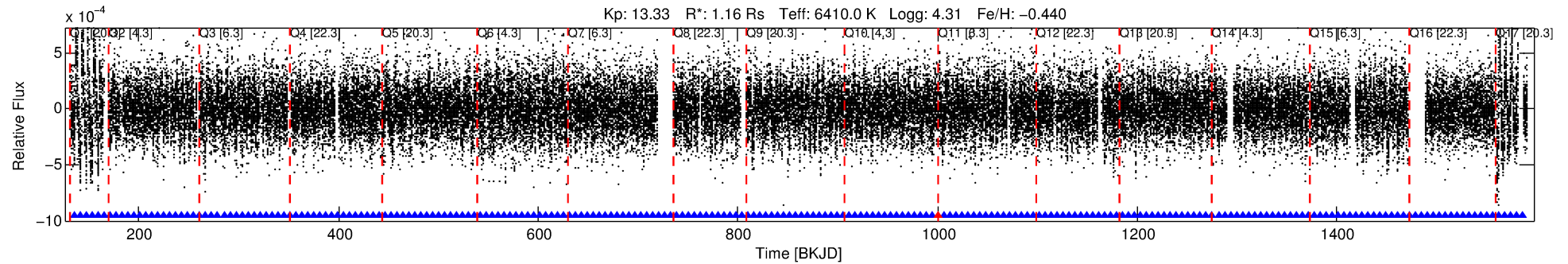
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005565247-01

No Significant Match Found

DV One-Page Summary

KIC: 5565247 Candidate: 1 of 1 Period: 5.964 d



TPS TCE Results:

Period = 5.96434 d
Epoch = 136.2175 BKJD

DV fit results are unavailable

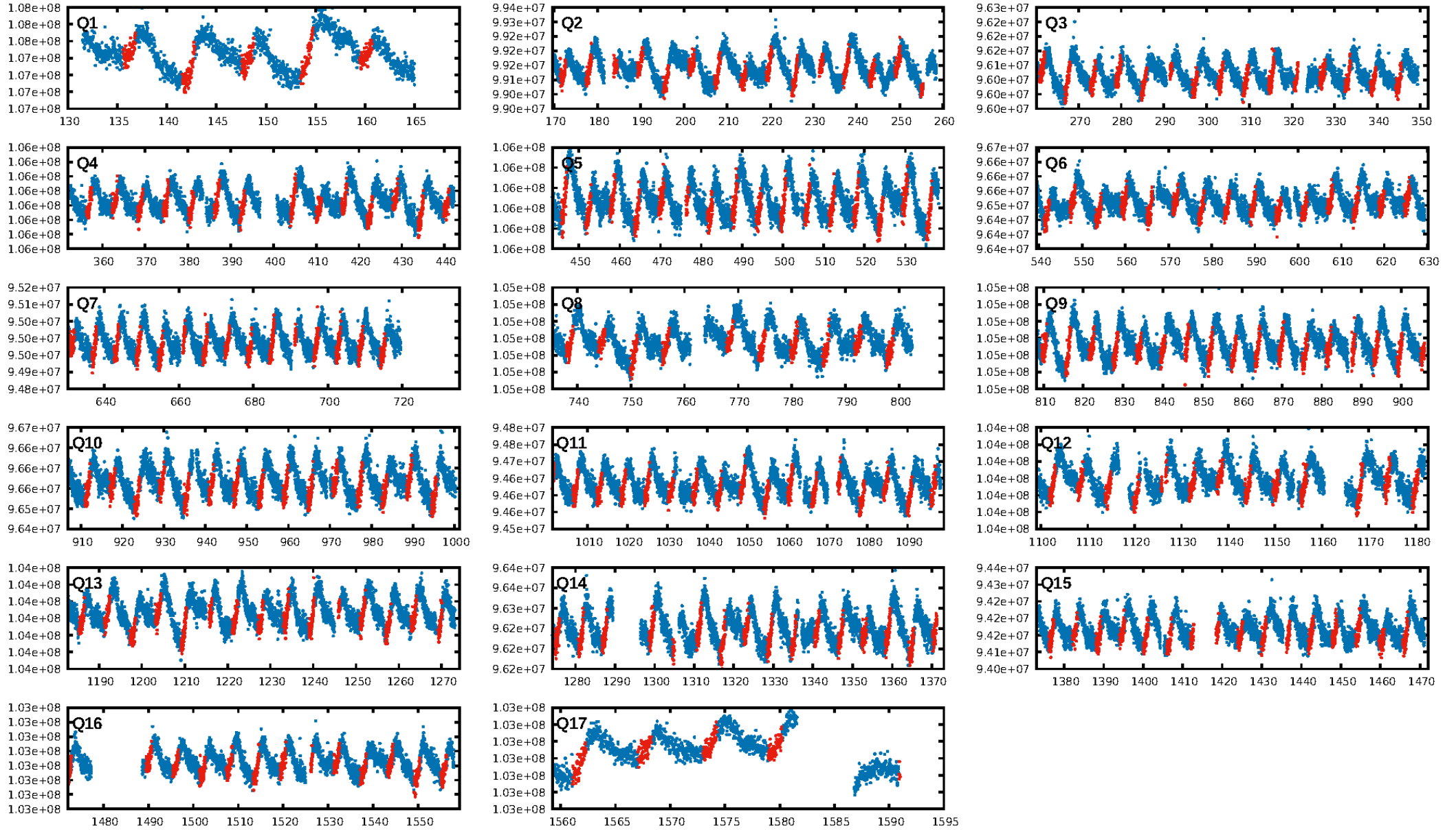
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.67e-16
RollingBand-fgt: 1.00 [220/221]
GhostDiagnostic-chr: 3.325
Centroid-sig: 0.0%
Centroid-so: 0.618 arcsec [1.25σ]
OotOffset-rm: 1.241 arcsec [3.05σ]
KicOffset-rm: 0.946 arcsec [2.59σ]
OotOffset-st: 3/4/4/3 [14]
KicOffset-st: 3/4/4/3 [14]
DiffImageQuality-fgm: 0.93 [13/14]
DiffImageOverlap-fno: 1.00 [17/17]

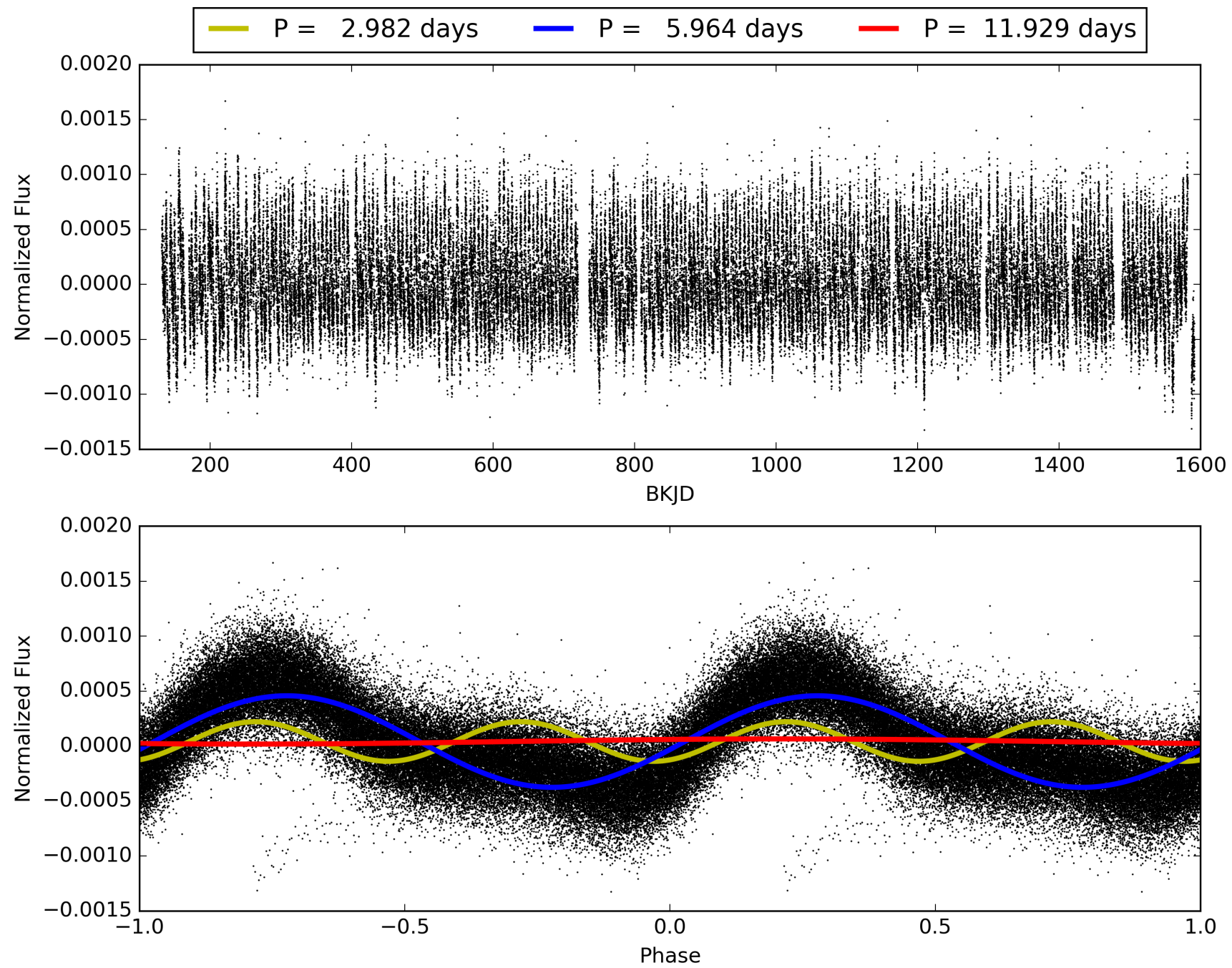
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:06:07 Z

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

TCE 005565247-01, PDC Light Curves

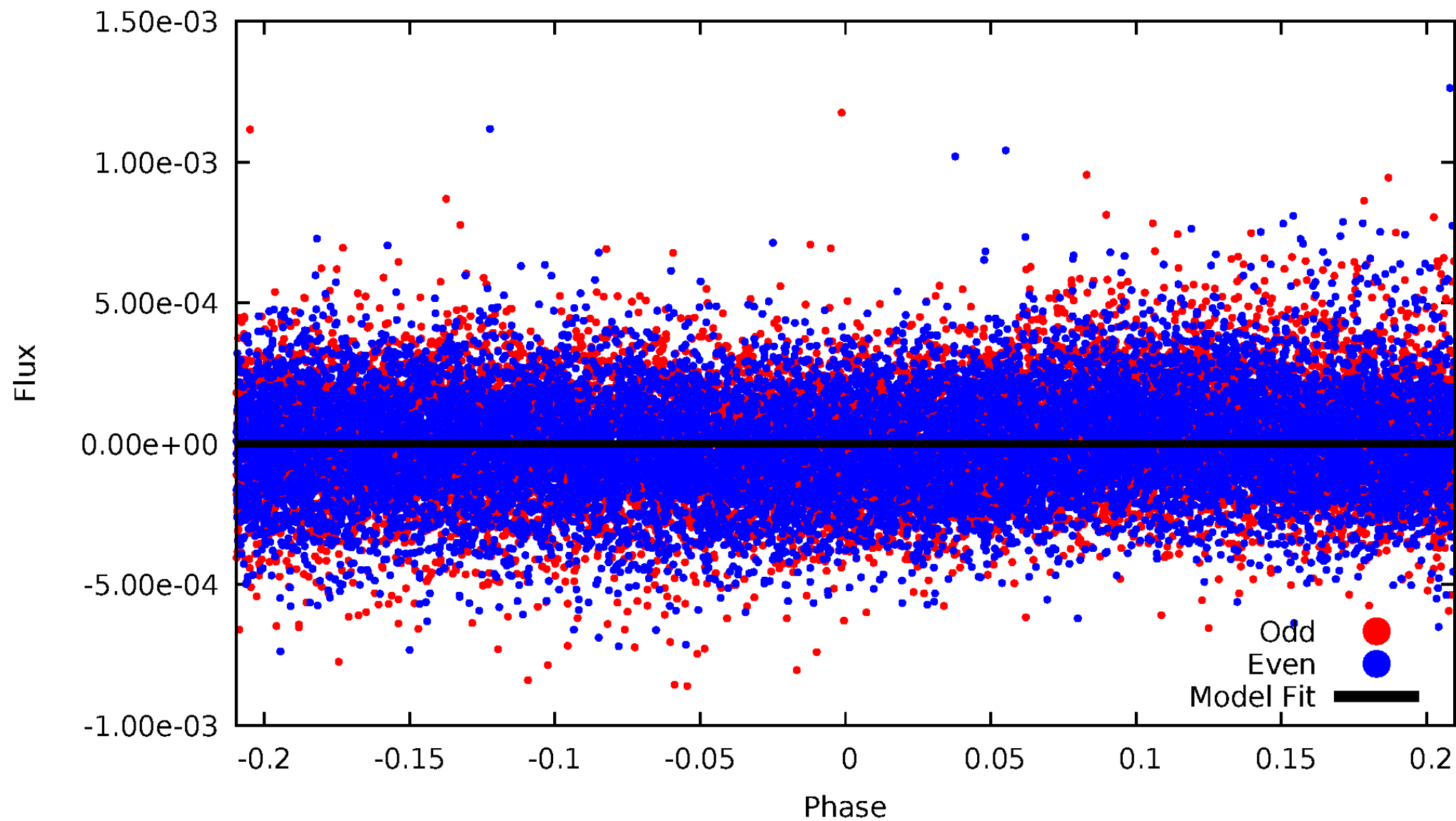


TCE 005565247-01



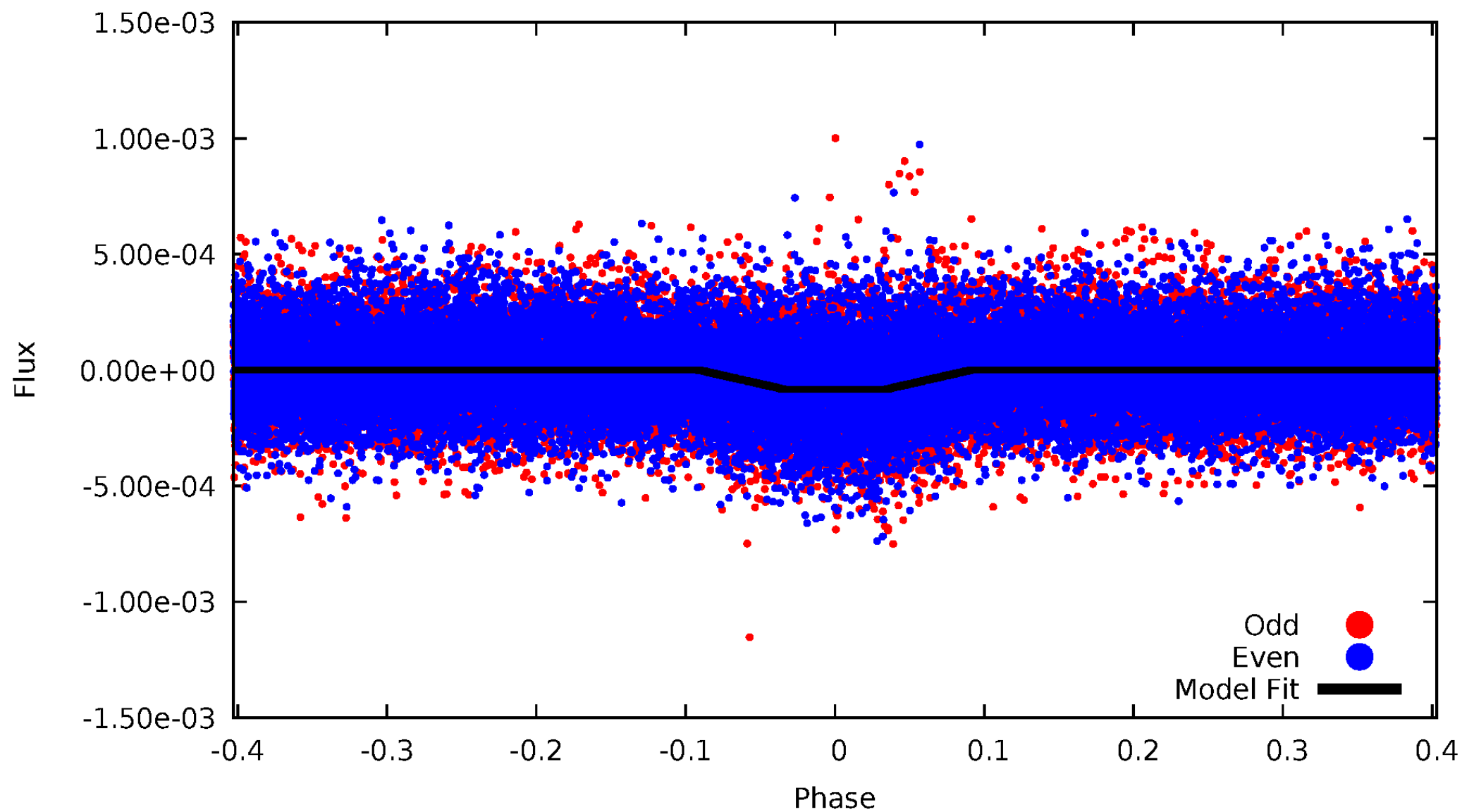
DV Odd/Even

TCE 005565247-01

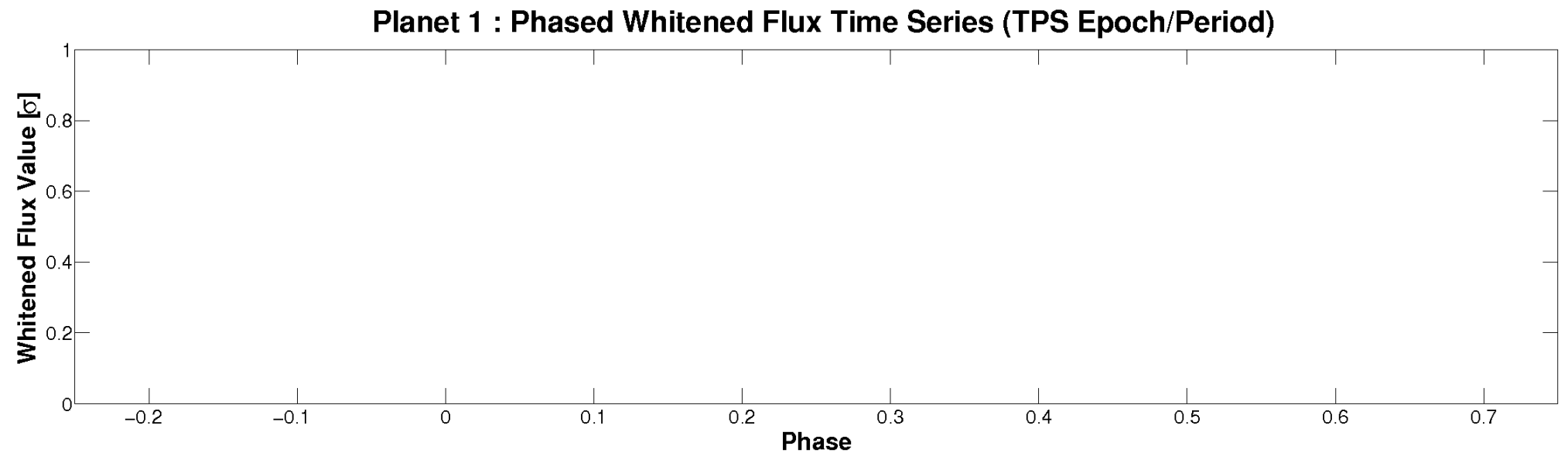
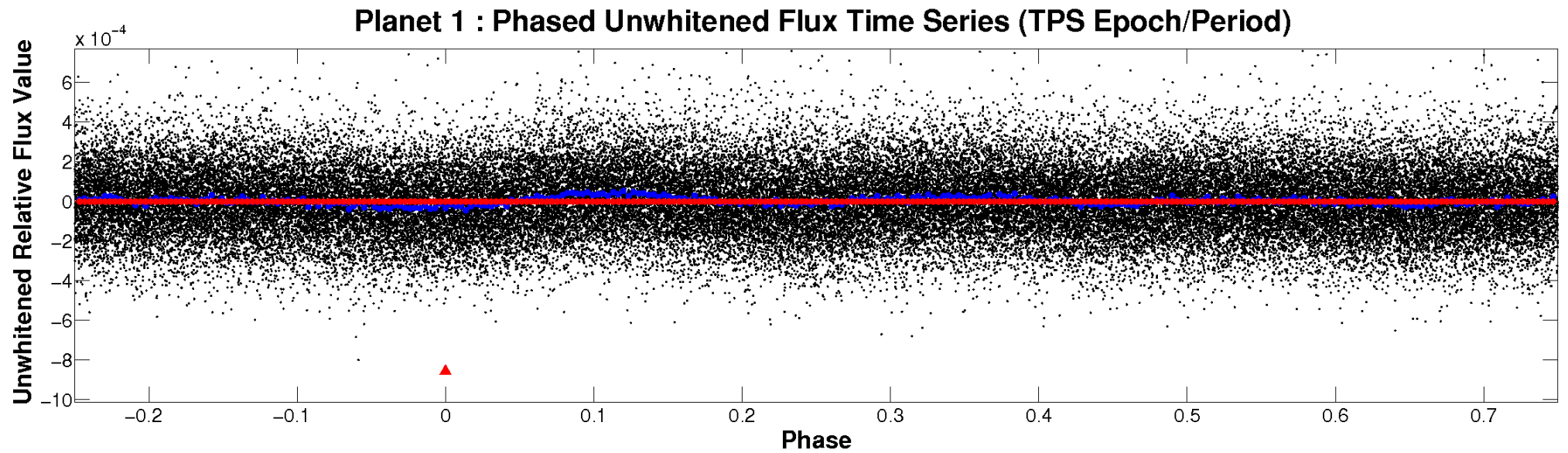


ALT Odd/Even

TCE 005565247-01

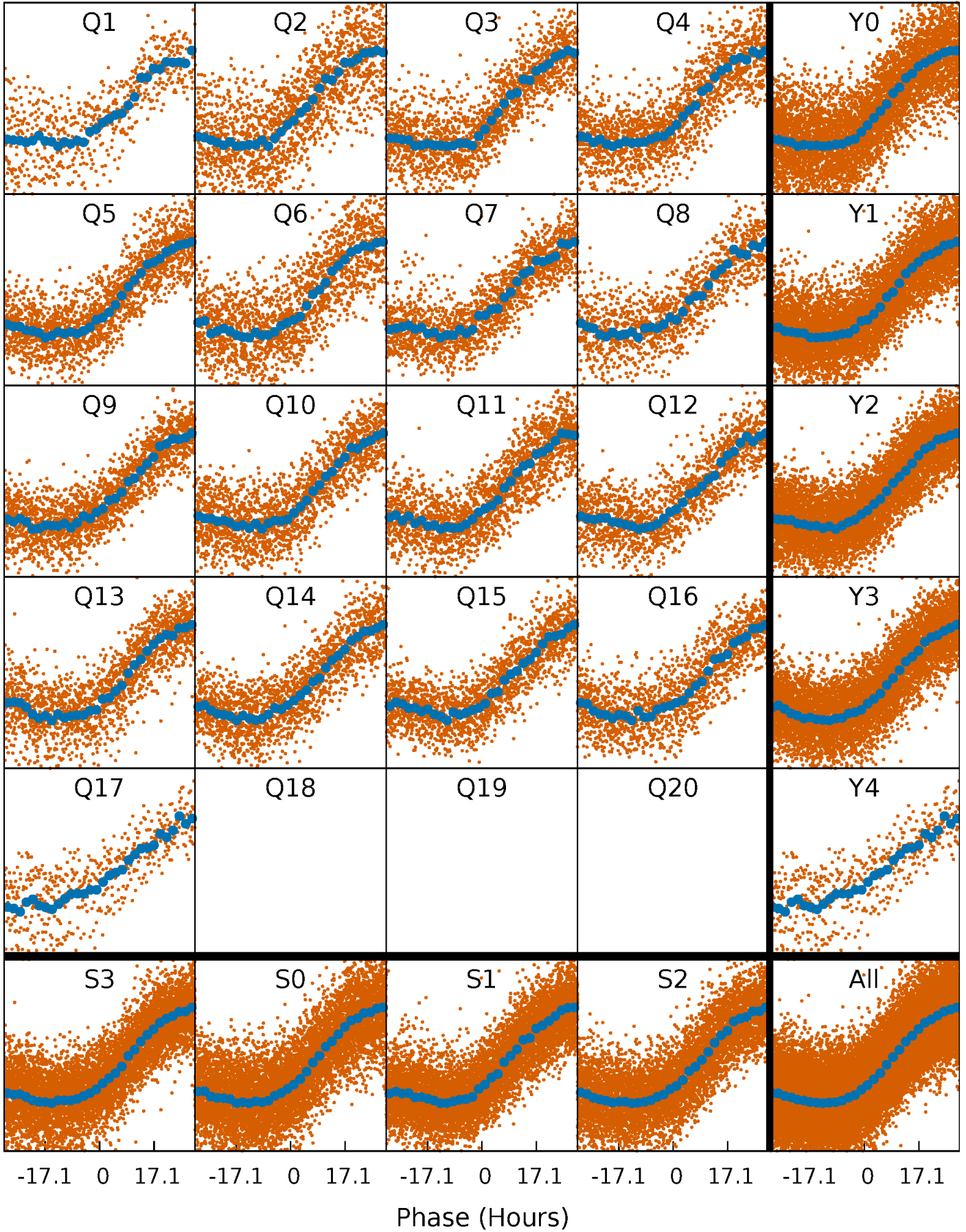


Non-Whitened Vs. Whitened Light Curve



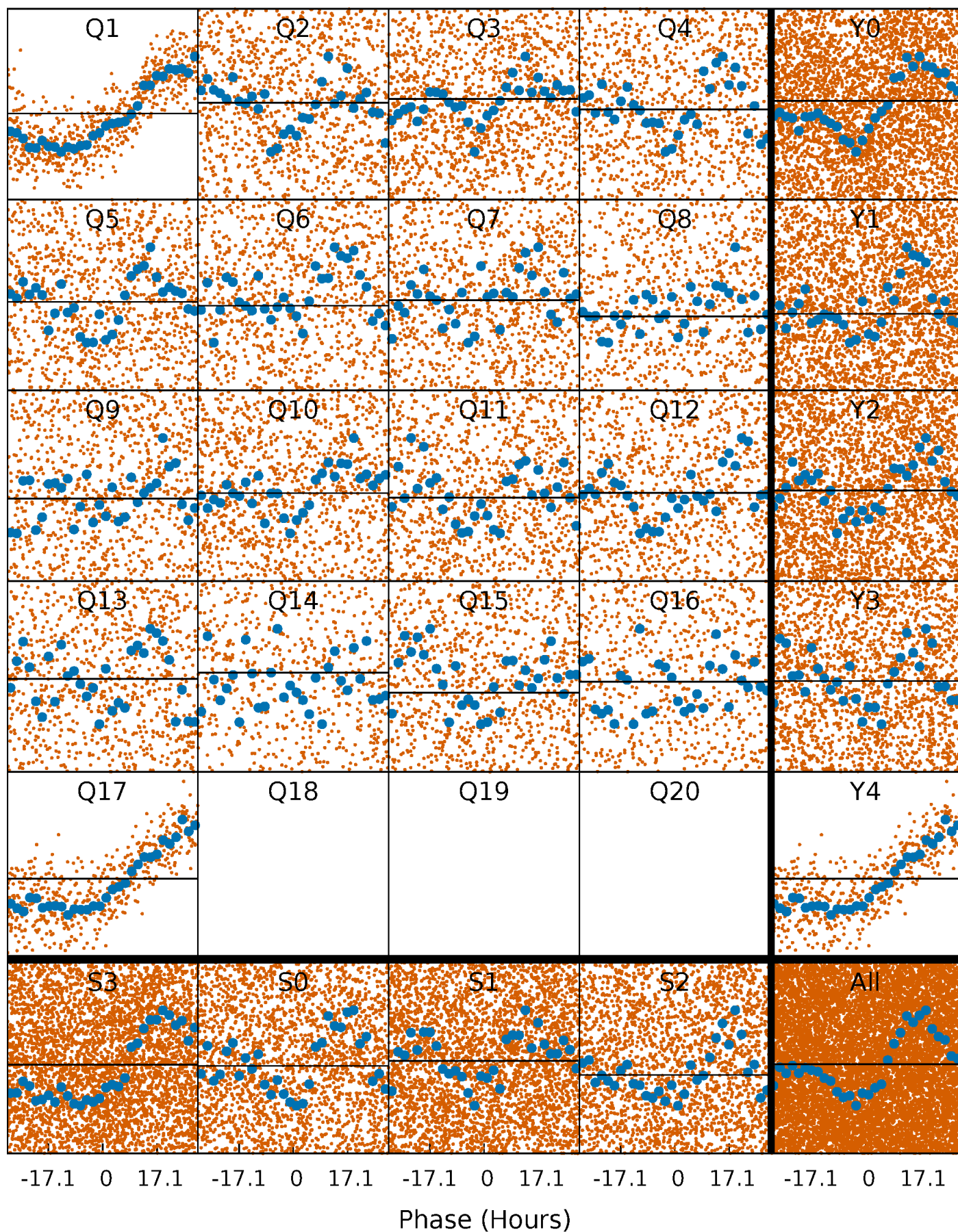
PDC Quarter-Phased Transit Curves

TCE 005565247-01 P= 5.964344 Days $T_0=136.217524$ (BKJD)



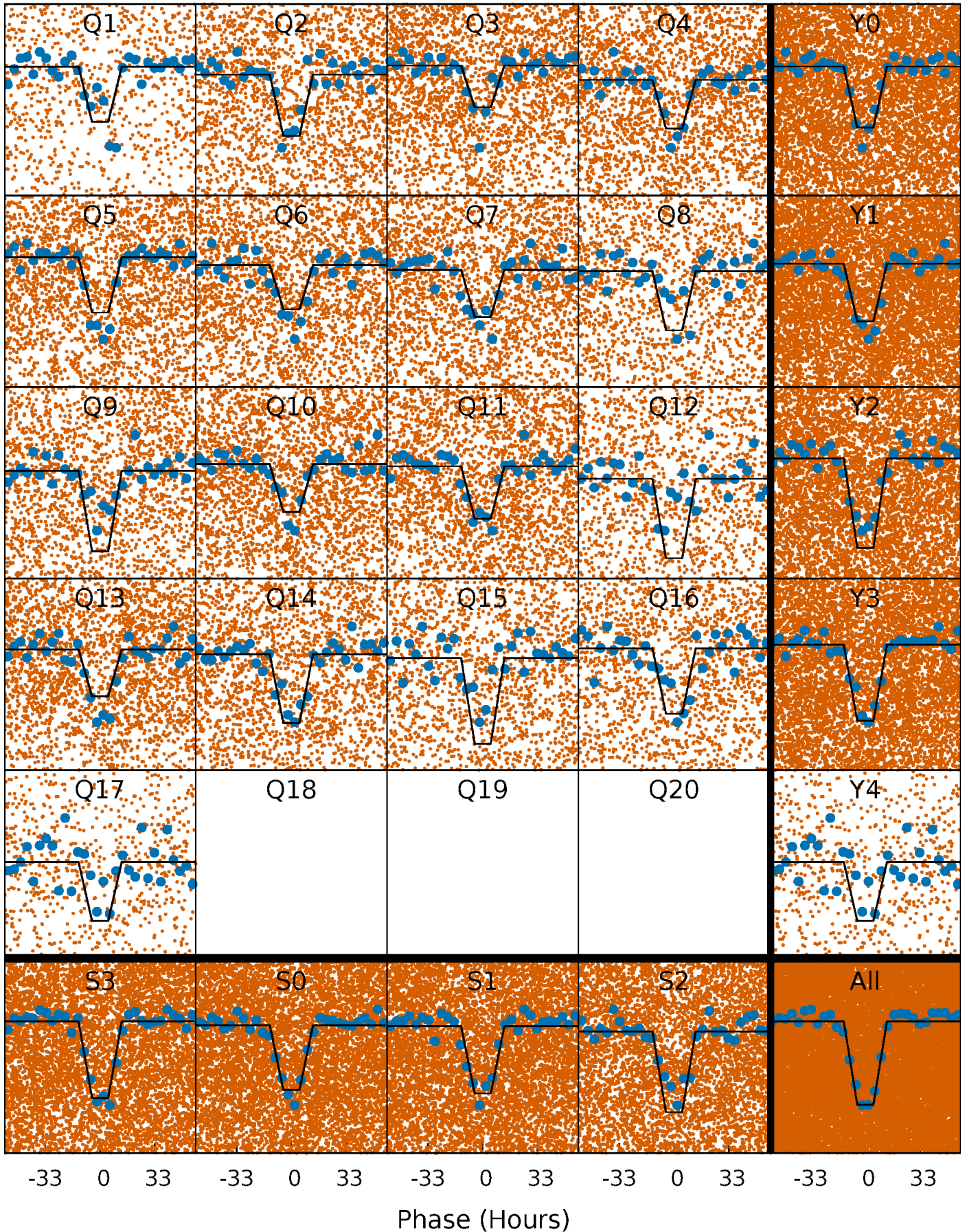
DV Quarter-Phased Transit Curves

TCE 005565247-01 P= 5.964344 Days $T_0=136.217524$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

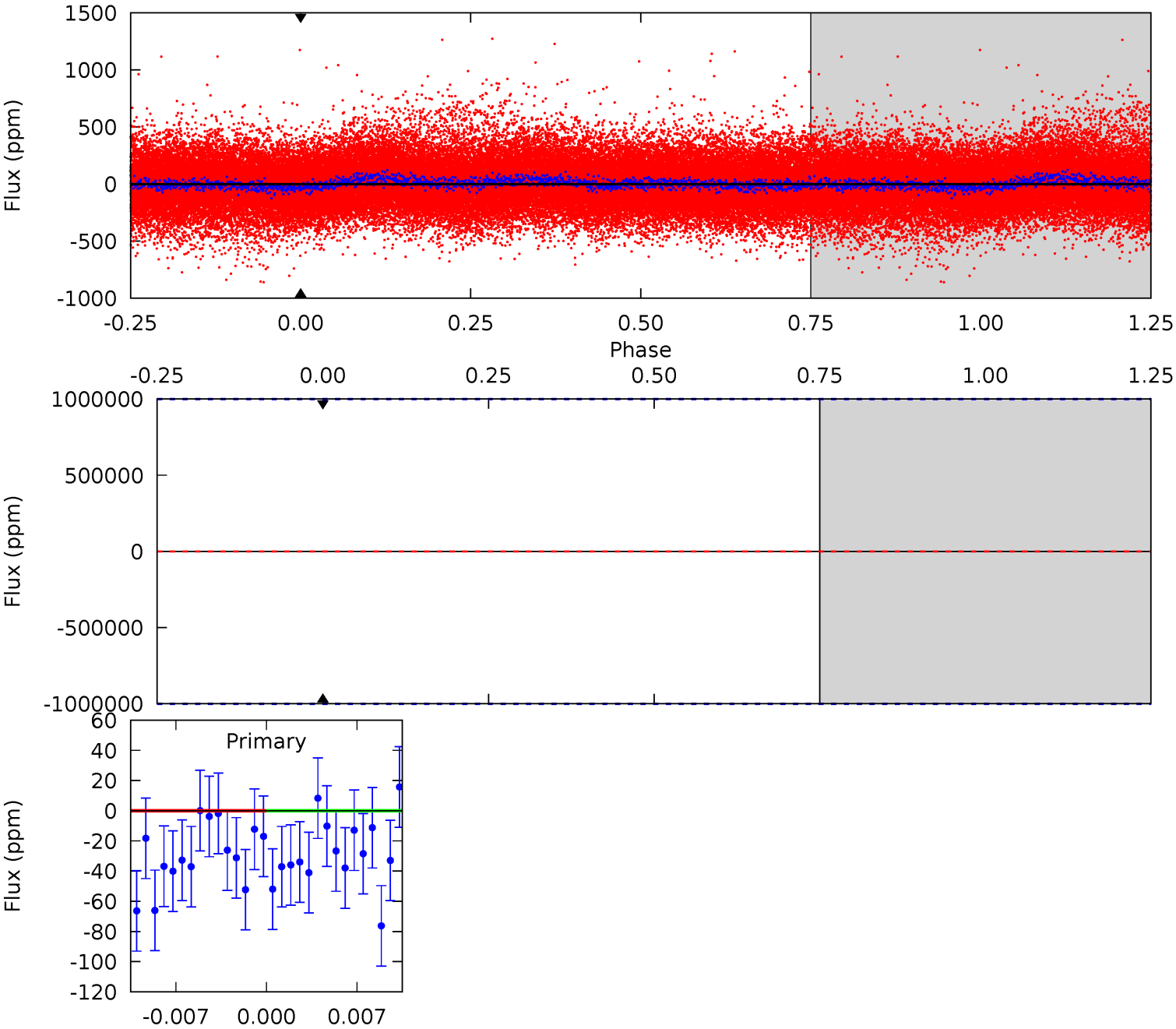
TCE 005565247-01 P= 5.964344 Days $T_0=136.208418$ (BKJD)



DV Model-Shift Uniqueness Test

005565247-01, P = 5.964344 Days, E = 130.253180 Days

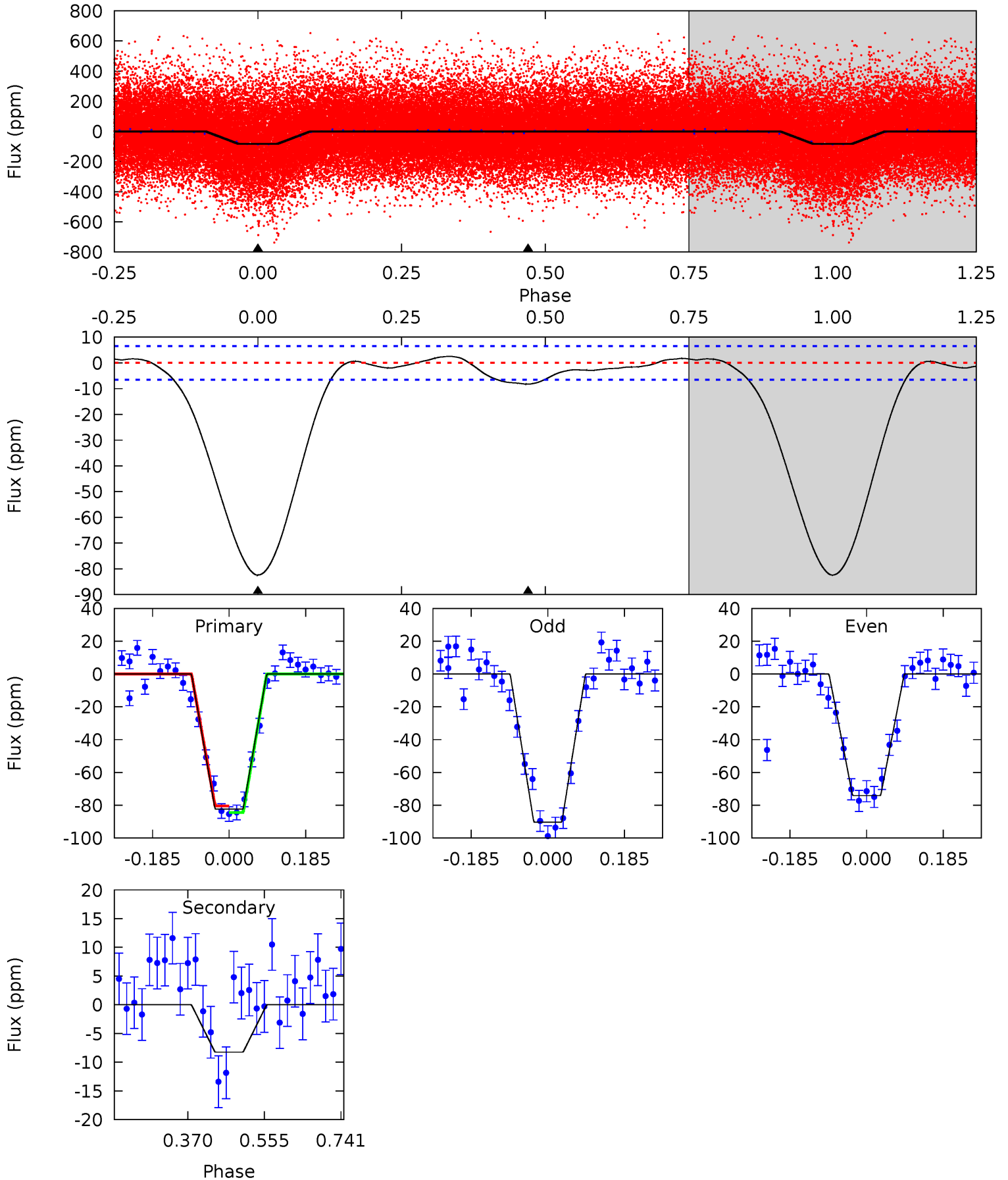
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005565247-01, P = 5.964344 Days, E = 130.244074 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
56.0	5.60	0	0	4.43	1.33	0.86	56.0	56.0	5.60	5.60	5.48	1.13	0.03	1.38



Stellar Parameters For KIC 005565247

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6410^{+171}_{-209}	$4.309^{+0.144}_{-0.176}$	$-0.440^{+0.300}_{-0.300}$	$1.162^{+0.338}_{-0.208}$	$1.001^{+0.158}_{-0.106}$	$0.899^{+0.609}_{-0.416}$
	+3%/-3%	+3%/-4%	+68%/-68%	+29%/-18%	+16%/-11%	+68%/-46%
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 005565247-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$10.03^{+10.77}_{-7.27}$	1689^{+123}_{-115}	3623^{+24917}_{-29270}	$7.545^{+5124.675}_{-4111.730}$
Alt.	-8 ± 1	$9.15^{+10.11}_{-6.46}$	1681^{+128}_{-98}	-1991^{+4944}_{-276}	$0.223^{+2.472}_{-0.177}$

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

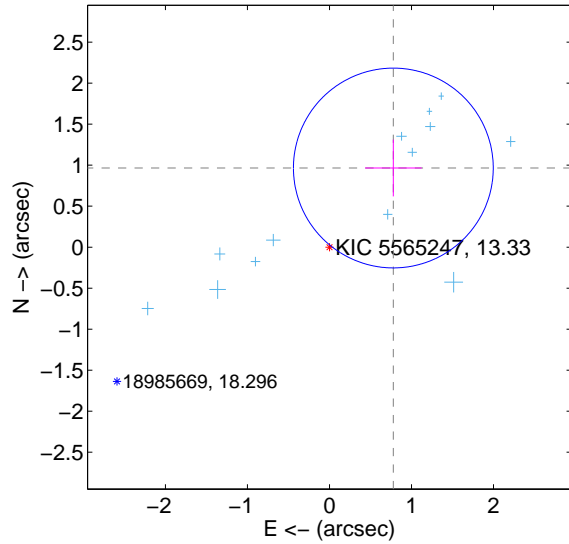
Supplemental centroid analysis for 005565247-01. Kepler magnitude: 13.33. Transit SNR -1.00

There are 13 quarters with good PRF difference image offsets

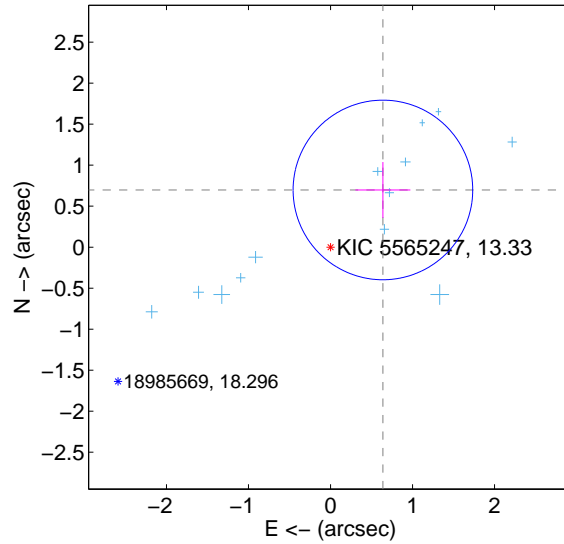
The direct PRF centroid is offset from the target star catalog position by about 0.53 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.241 ± 0.406	3.05	-0.779 ± 0.346	0.965 ± 0.346
PRF-fit source offset from KIC position	0.946 ± 0.365	2.59	-0.639 ± 0.335	0.698 ± 0.340
photometric centroid source offset	0.62 ± 0.50	1.25	0.42 ± 0.52	0.46 ± 0.47

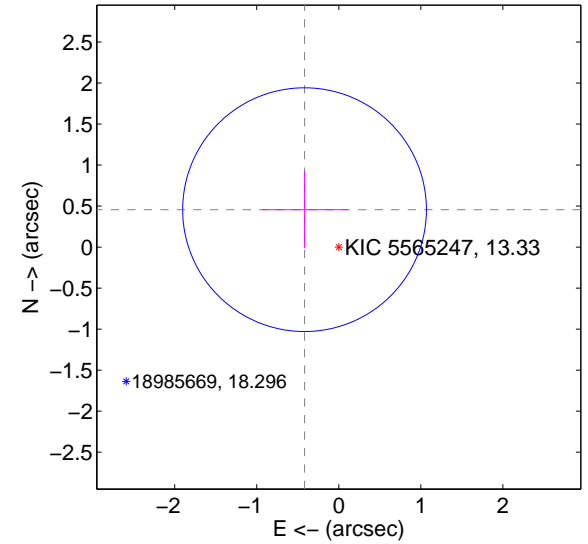
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

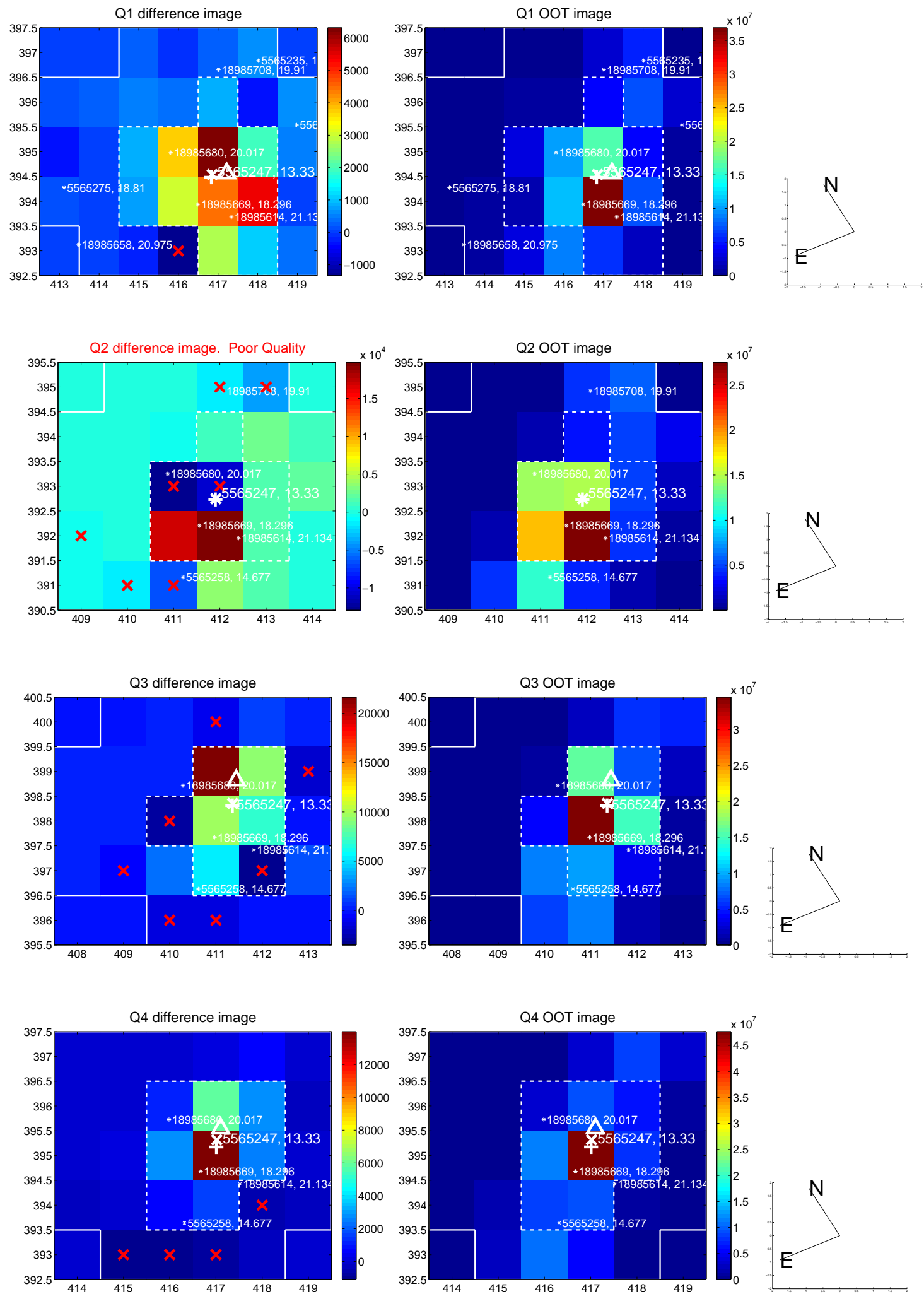


offset from photometric centroids

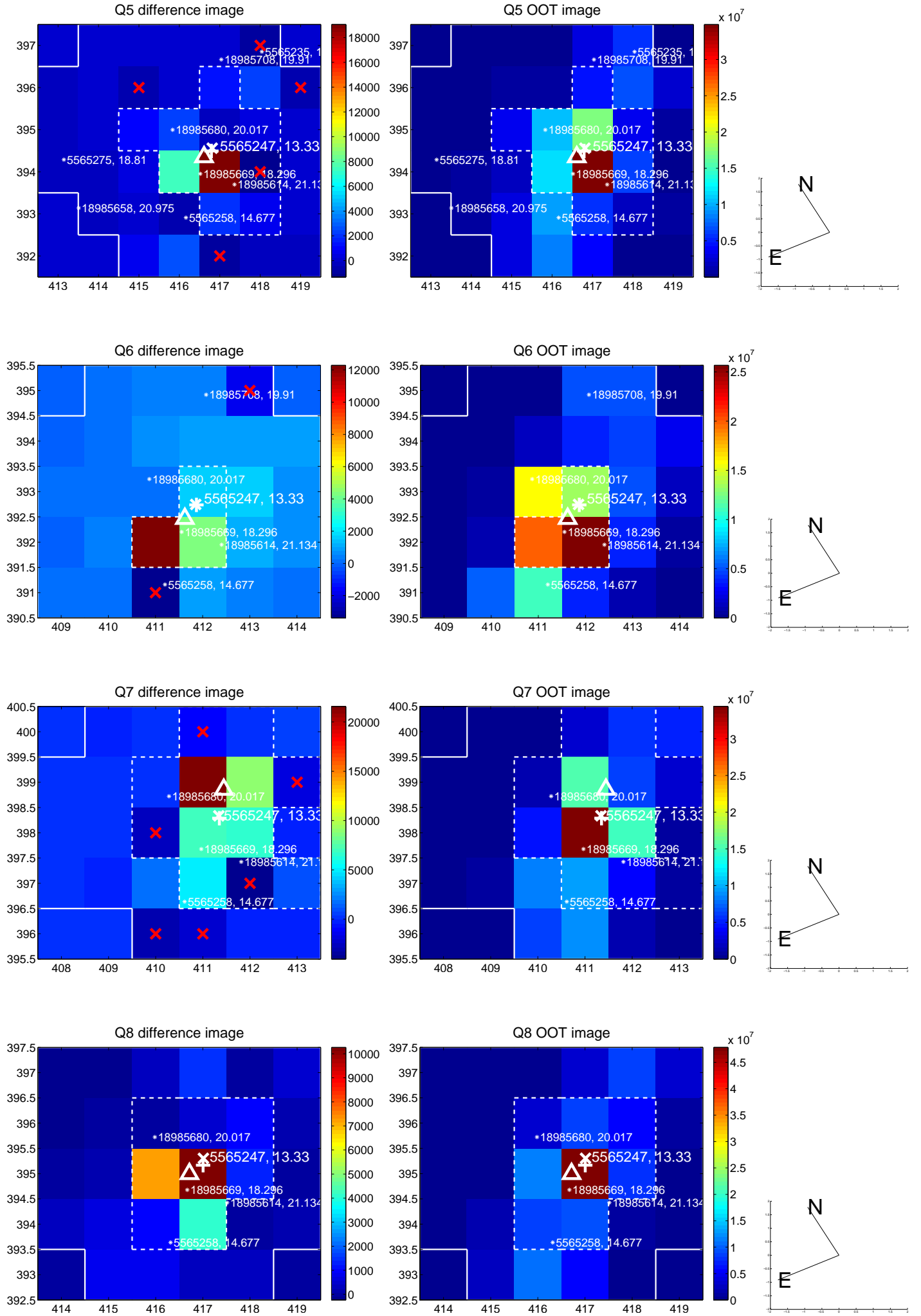


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

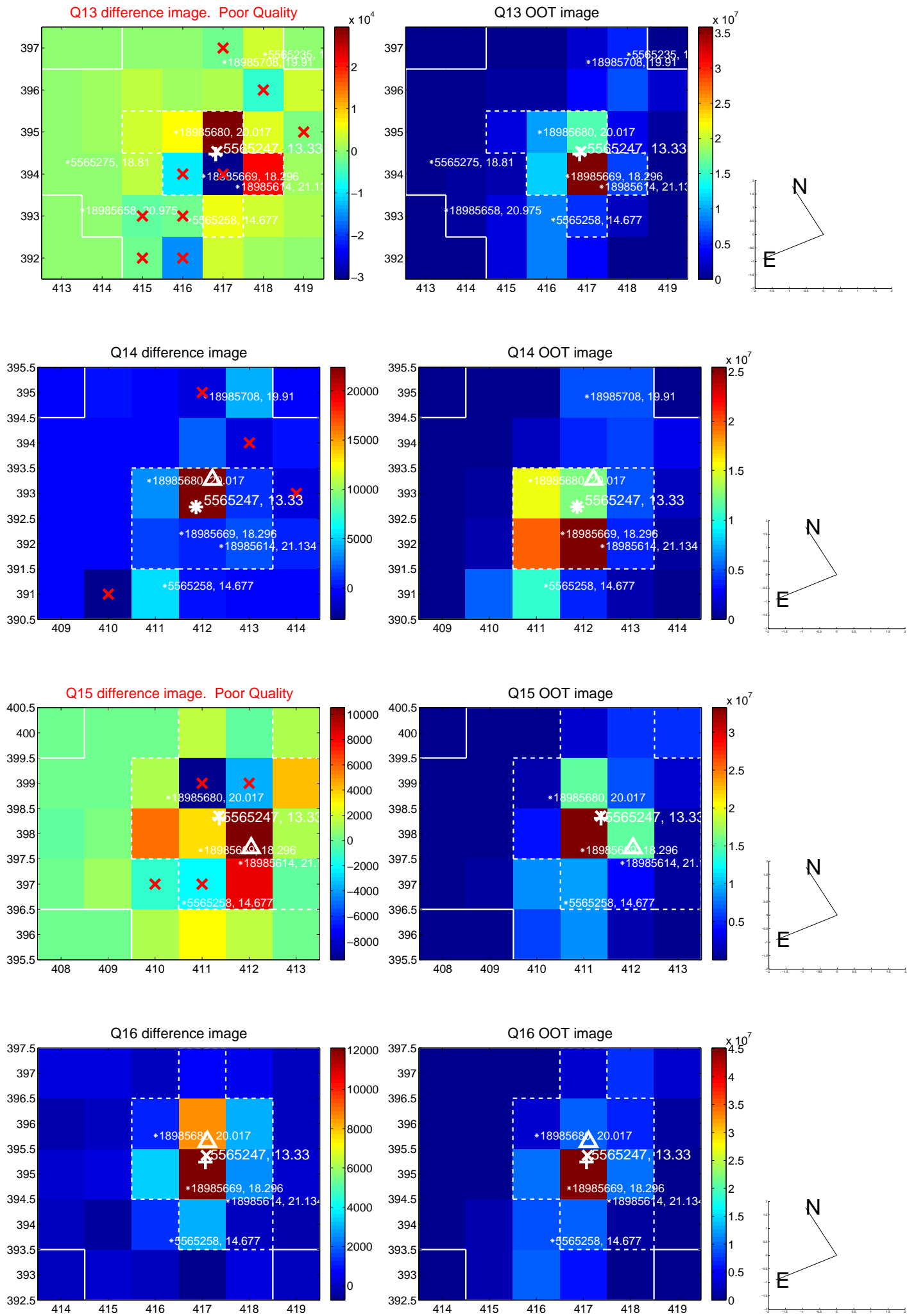
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



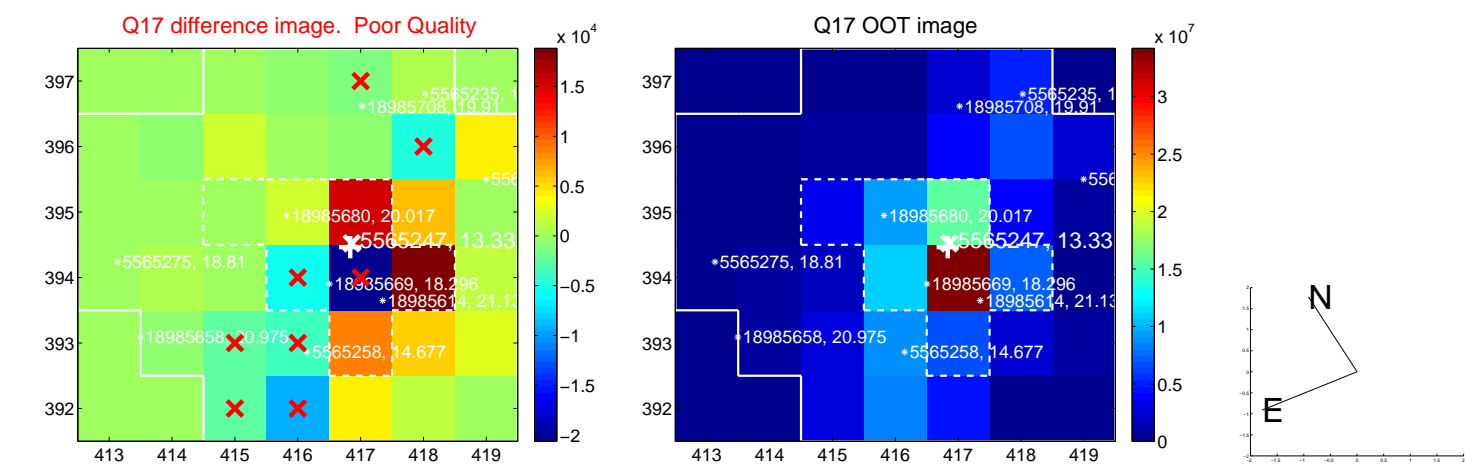
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



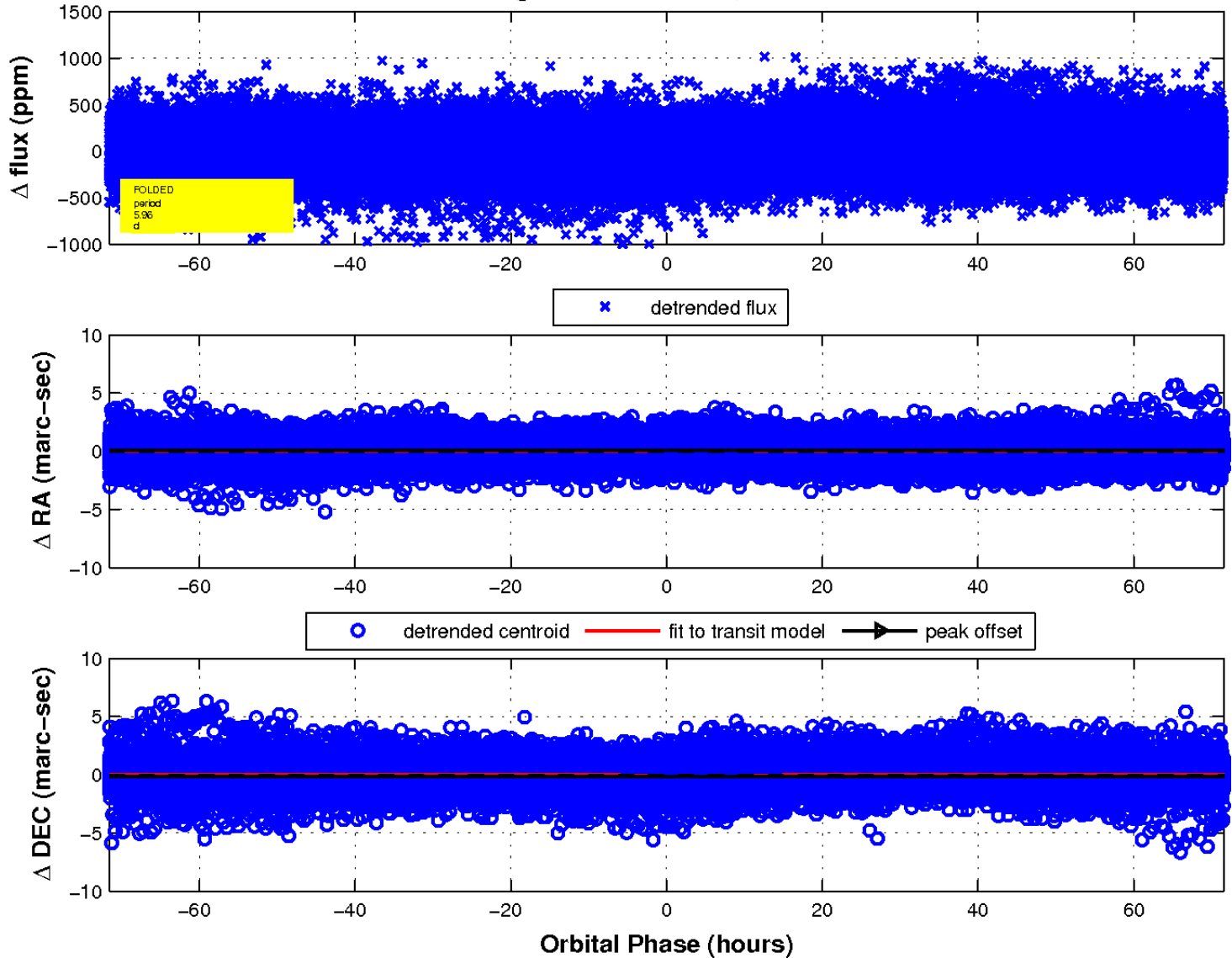
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

