

KIC 005962877

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})
005962877-01	OBS	No	0.600323	131.832869	4346.1	1.500	115.5	-1.0	1.12	5910	7.38	7855.49

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005962877-01	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.

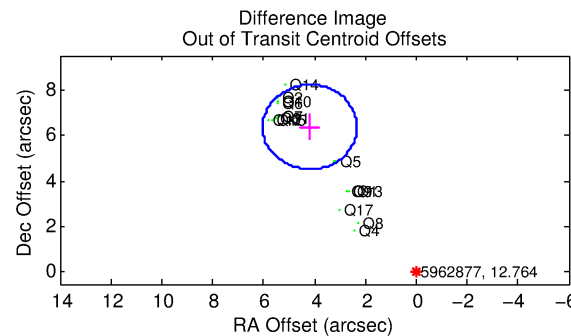
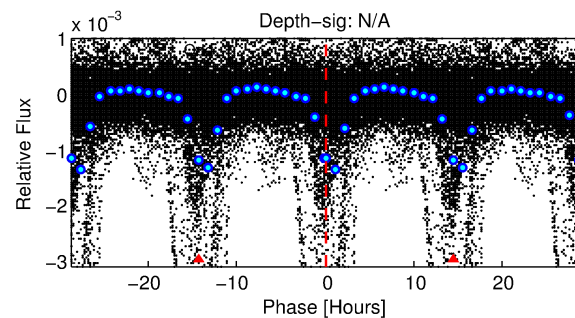
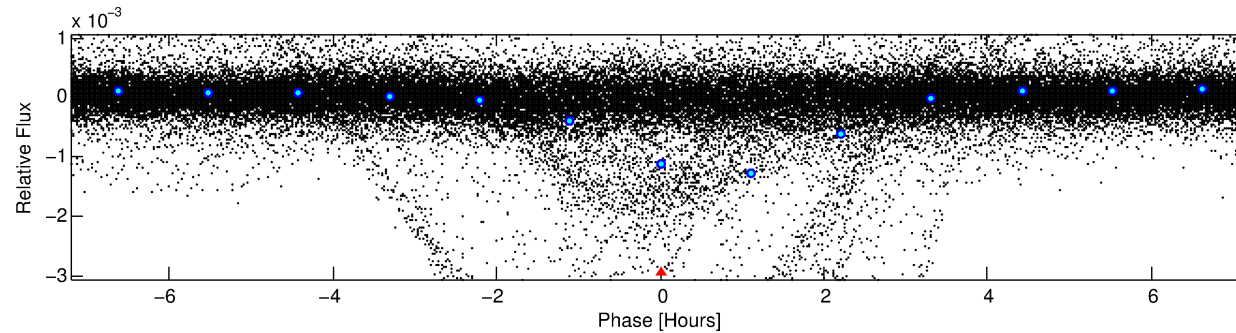
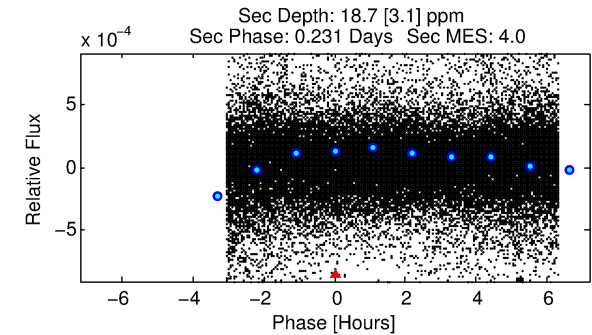
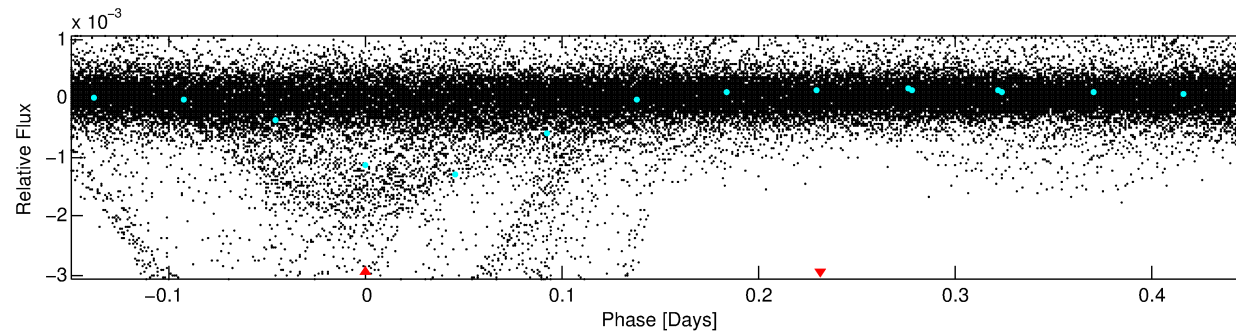
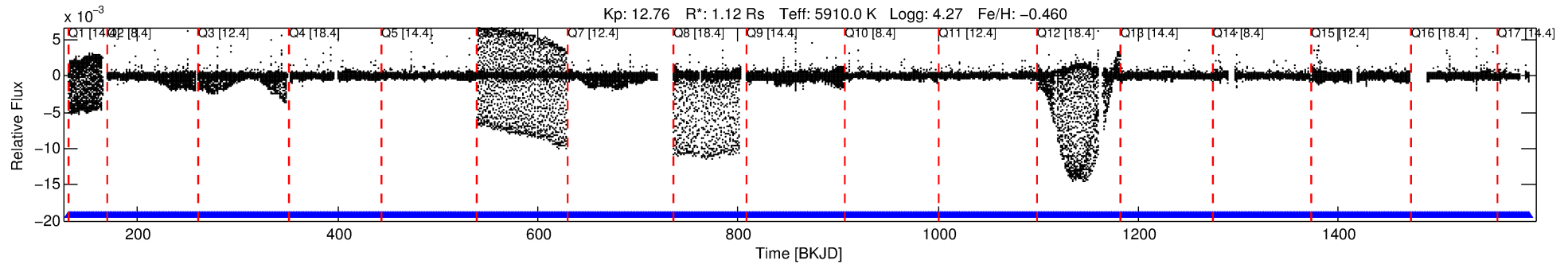
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005962877-01

No Significant Match Found

DV One-Page Summary

KIC: 5962877 Candidate: 1 of 1 Period: 0.600 d



TPS TCE Results:

Period = 0.60032 d
Epoch = 131.8329 BKJD

DV fit results are unavailable

DV Diagnostic Results:

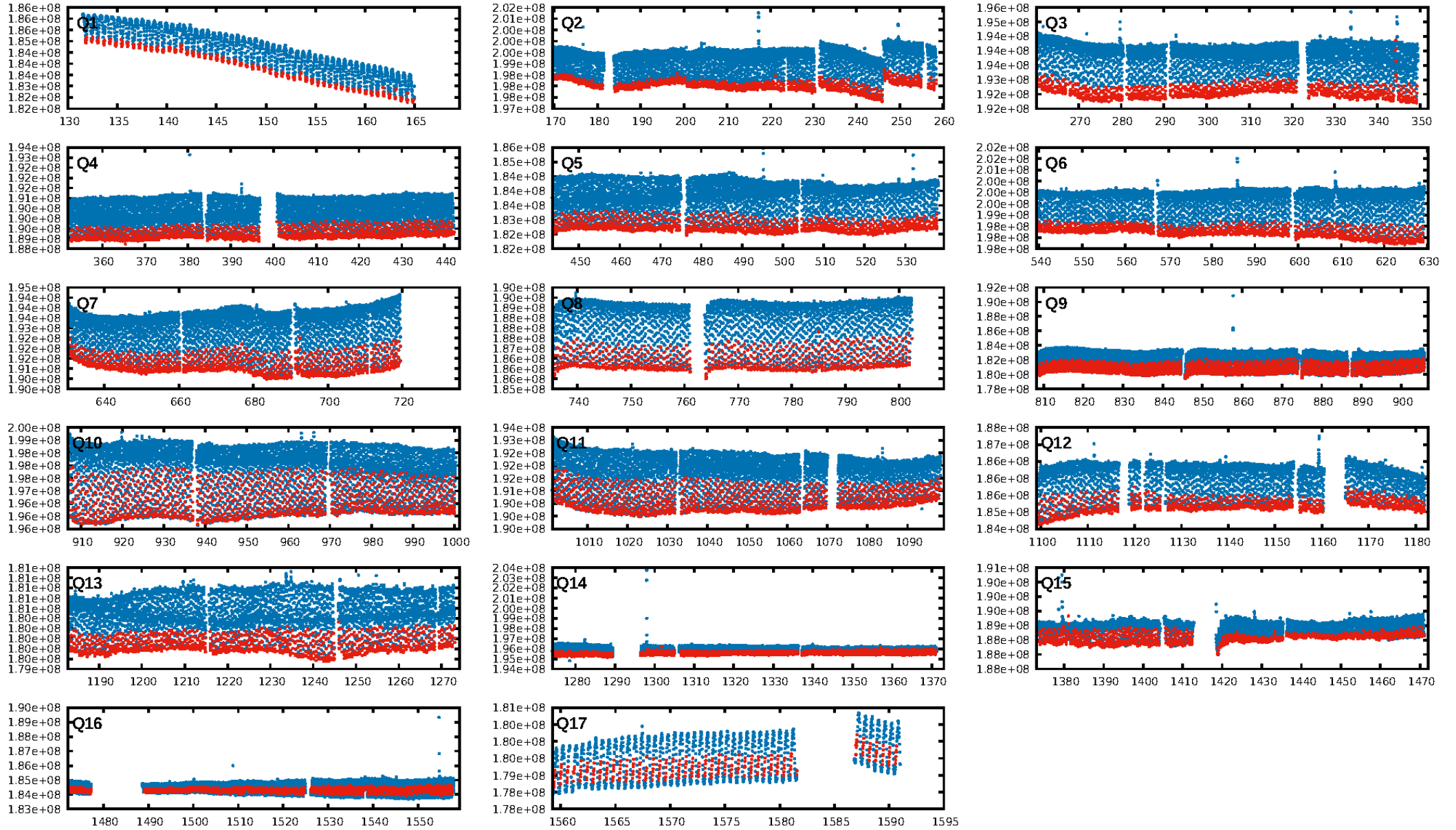
ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2146/2146]
GhostDiagnostic-chr: 19.53

Centroid-sig: 0.0%
Centroid-so: 2.918 arcsec [346.99σ]
OotOffset-rm: 7.621 arcsec [12.36σ]
KicOffset-rm: 0.183 arcsec [1.41σ]
OotOffset-st: 4/4/3/5 [16]
KicOffset-st: 4/4/3/5 [16]
DiffImageQuality-fgm: 1.00 [16/16]
DiffImageOverlap-fno: 1.00 [17/17]

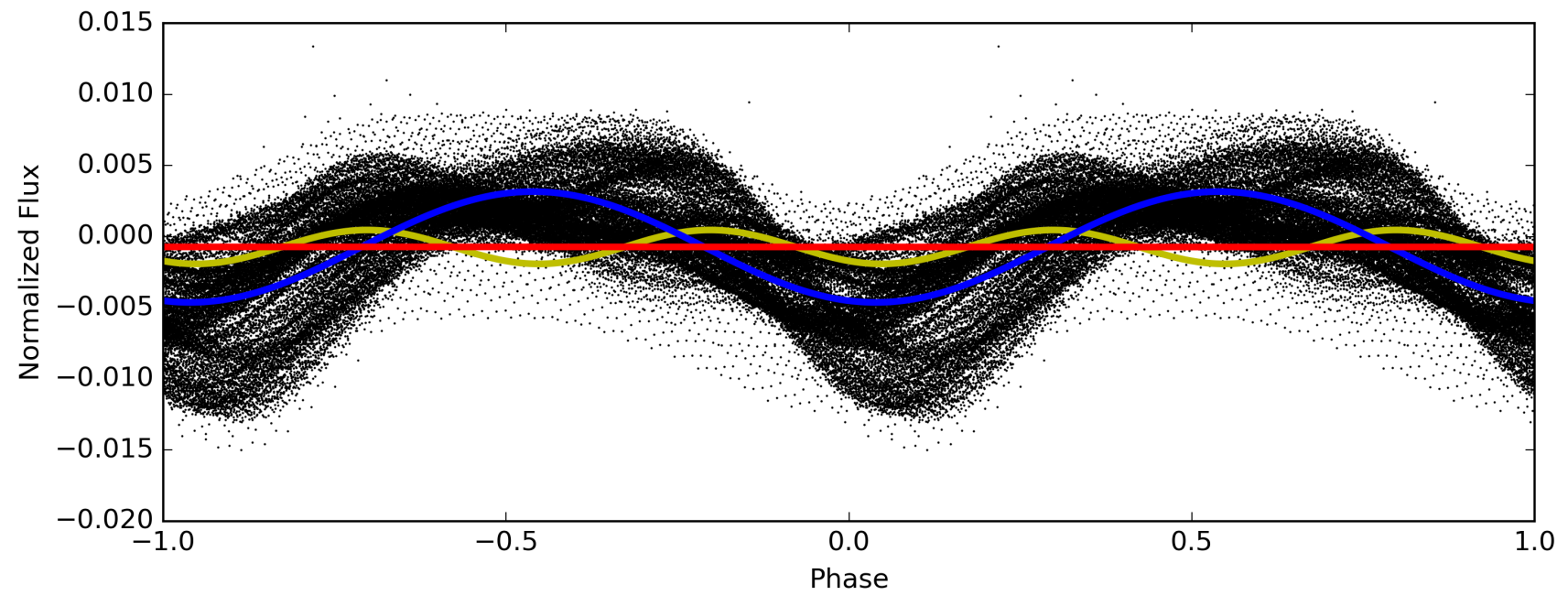
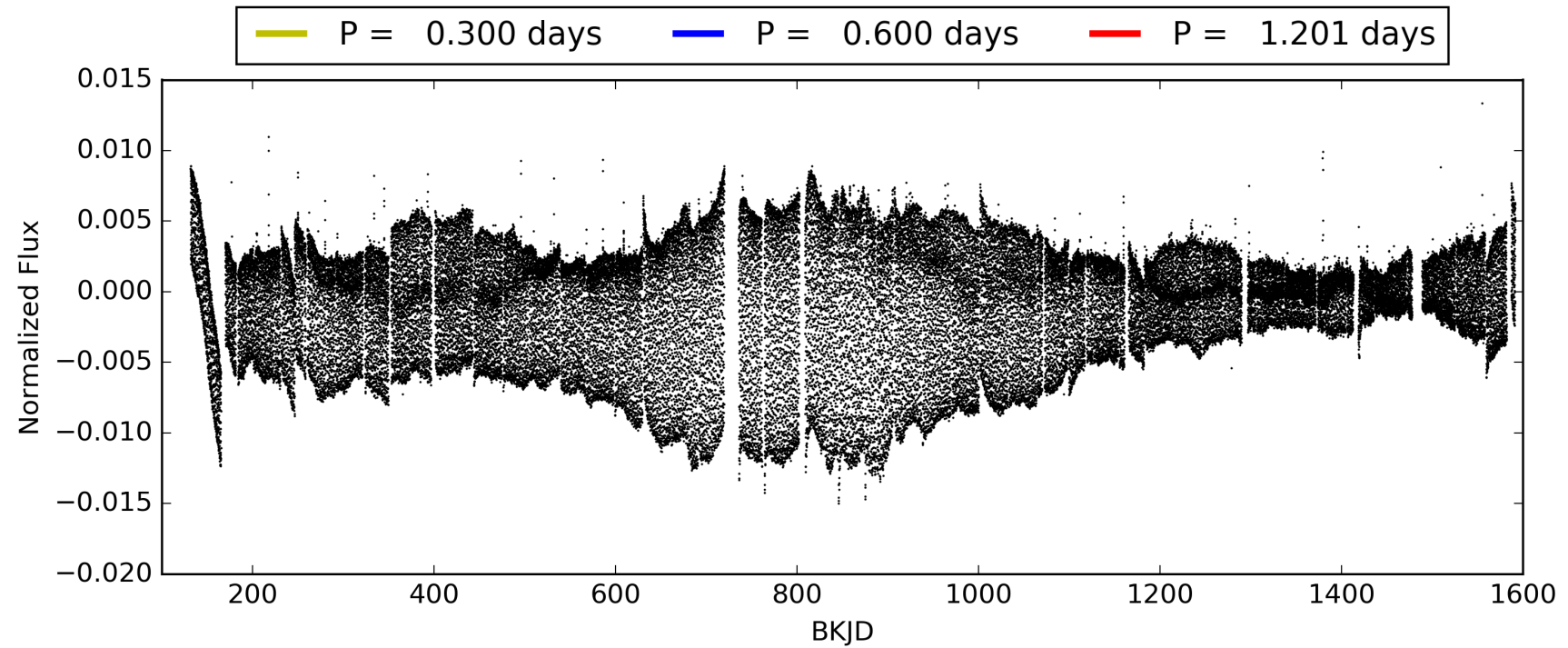
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 08:42:43 Z

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

TCE 005962877-01, PDC Light Curves

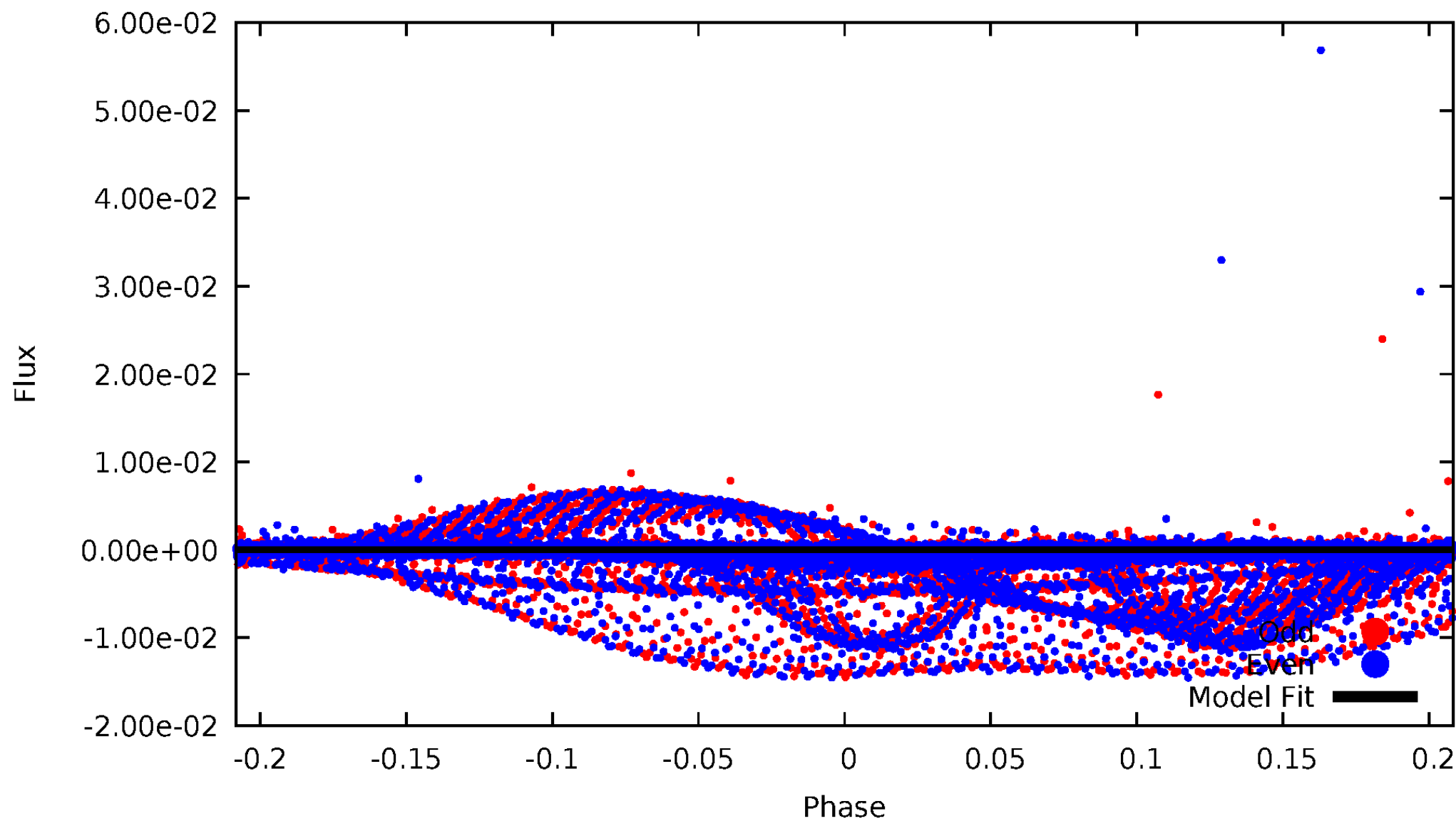


TCE 005962877-01



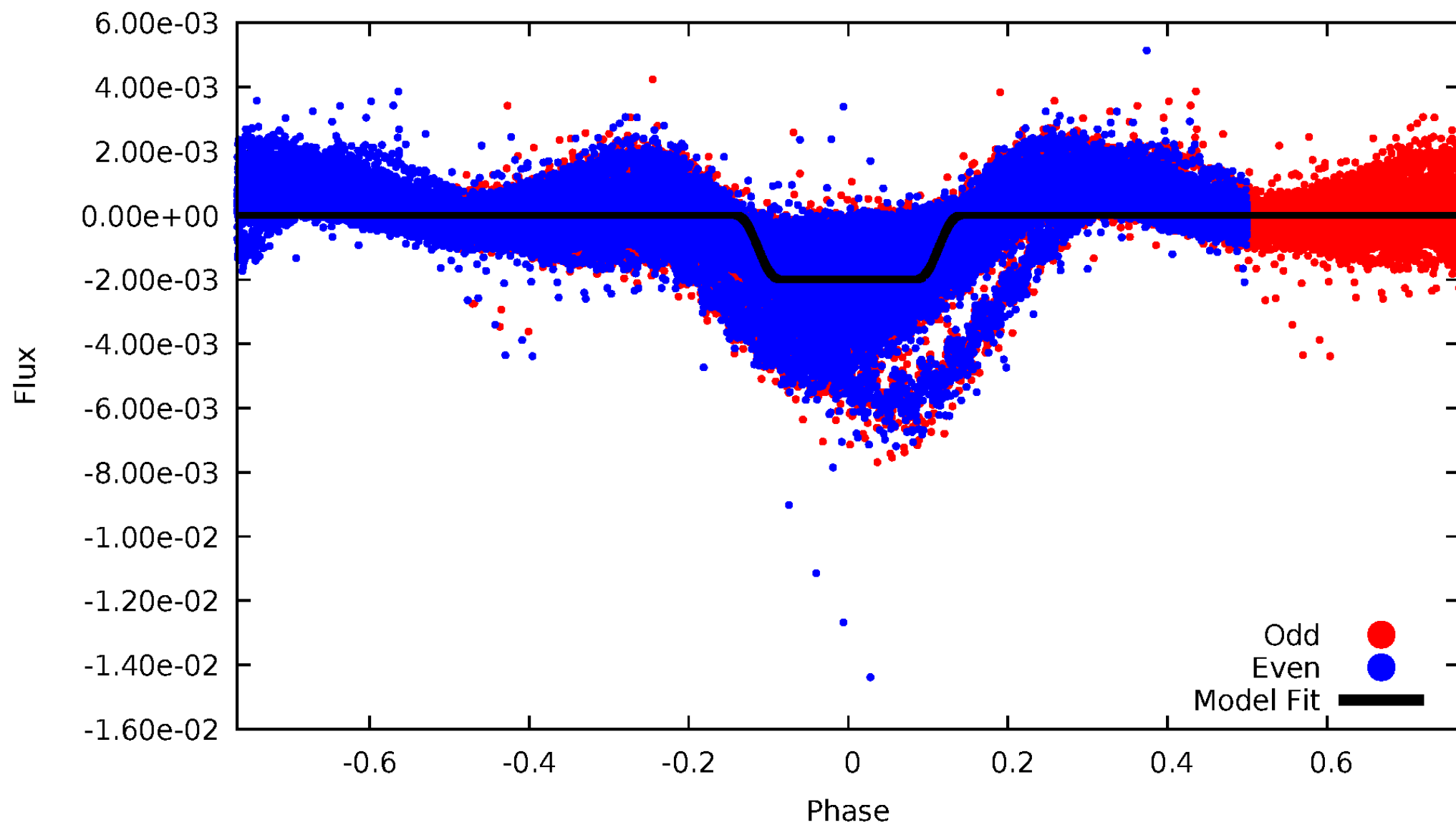
DV Odd/Even

TCE 005962877-01

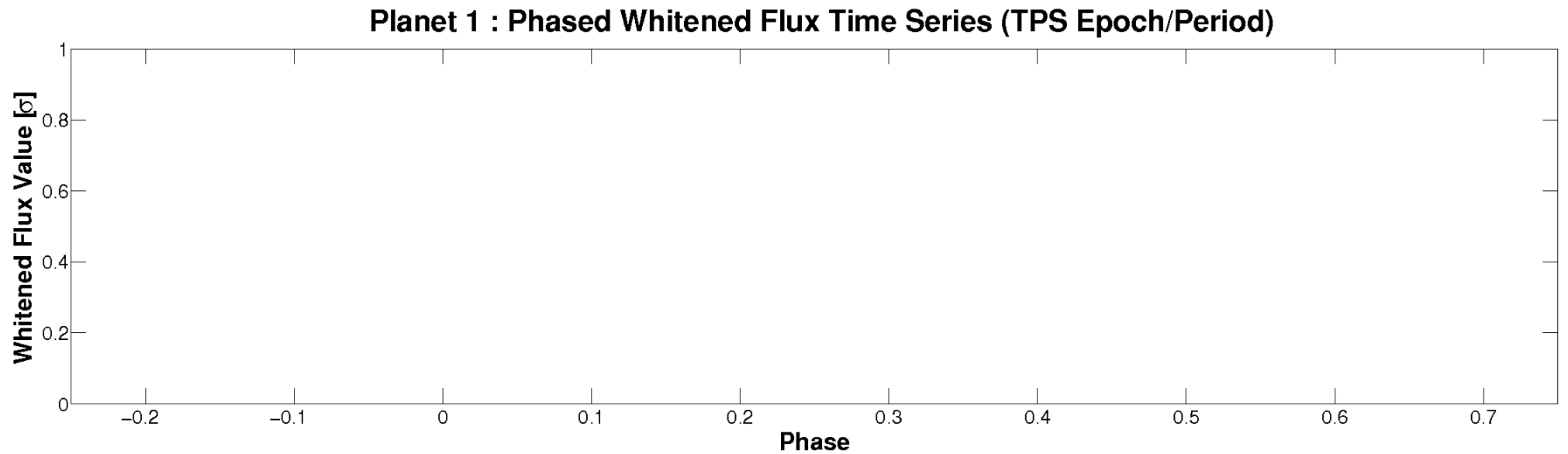
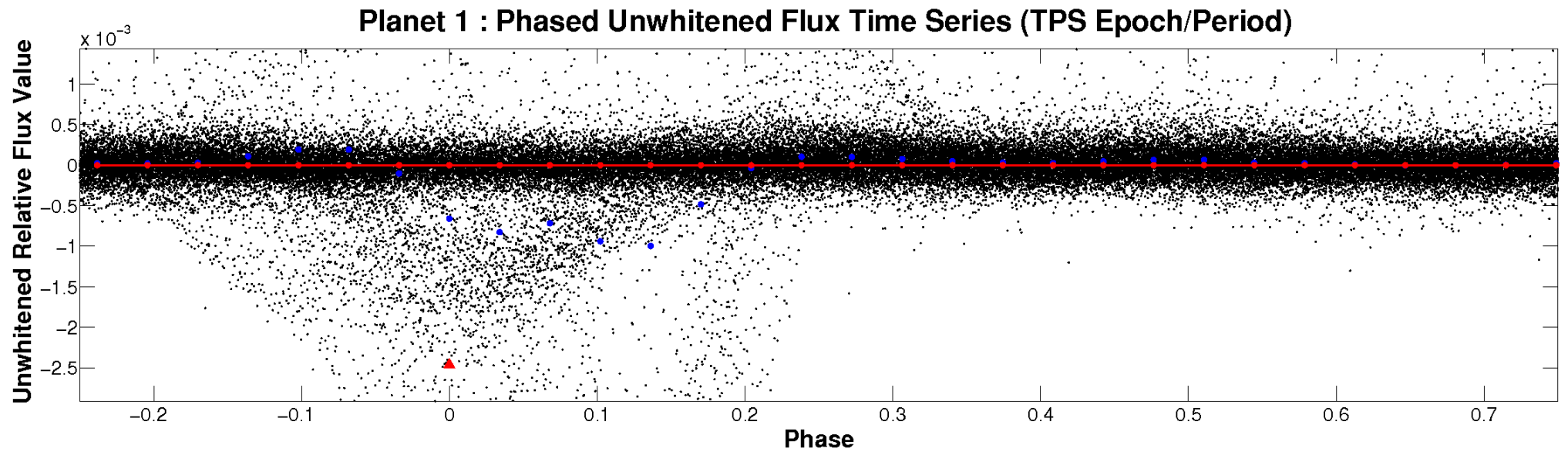


ALT Odd/Even

TCE 005962877-01

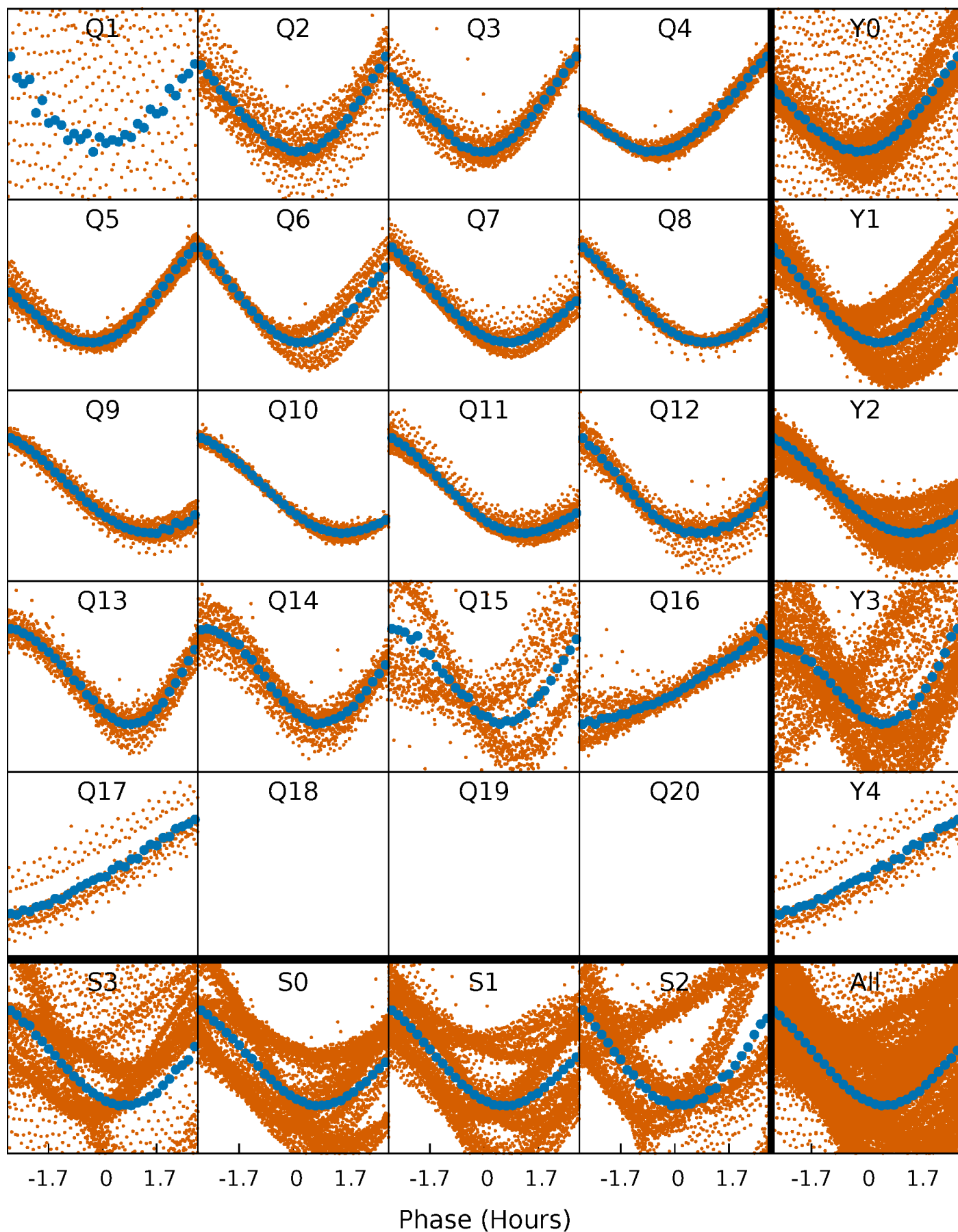


Non-Whitened Vs. Whitened Light Curve



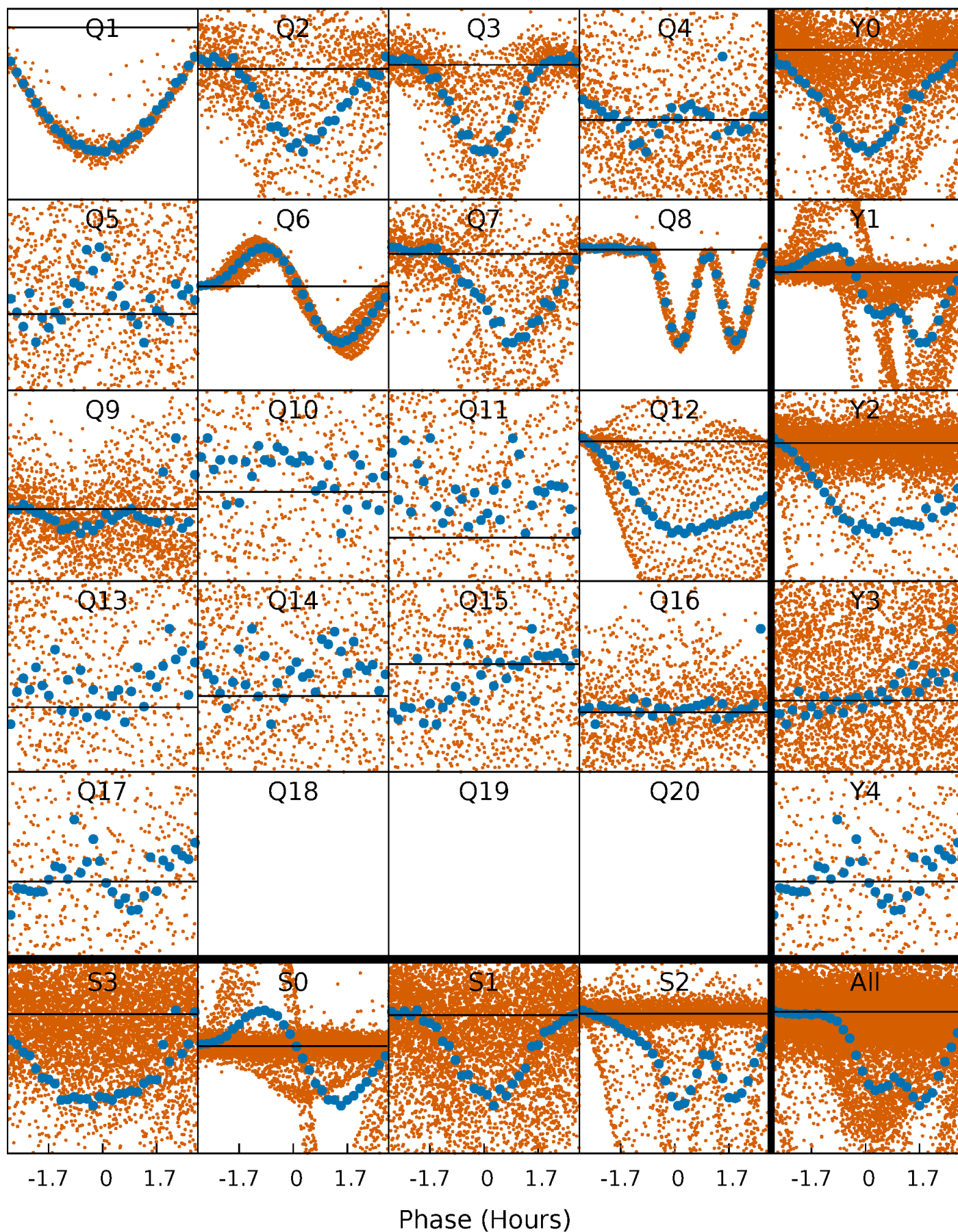
PDC Quarter-Phased Transit Curves

TCE 005962877-01 P= 0.600323 Days $T_0=131.832869$ (BKJD)



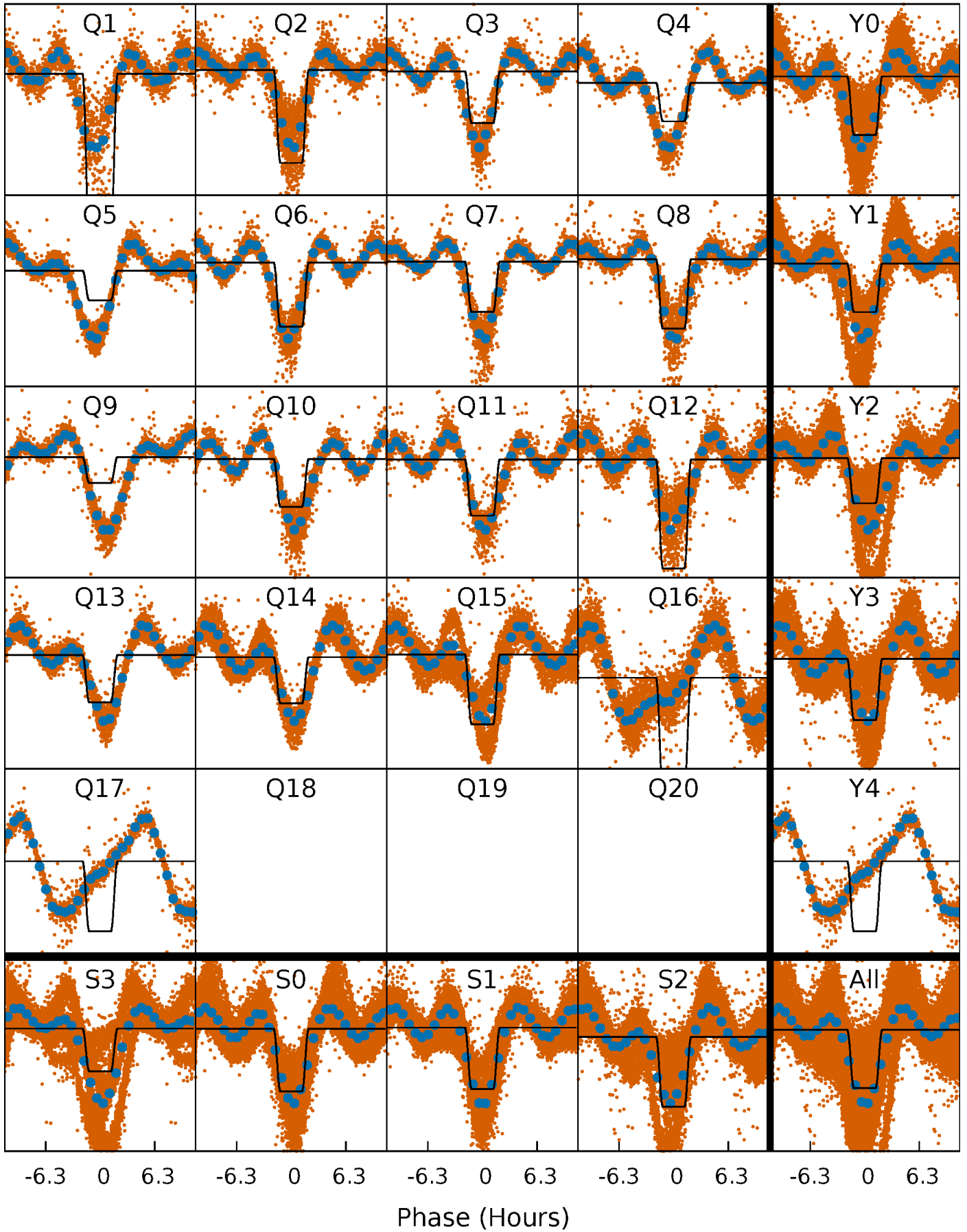
DV Quarter-Phased Transit Curves

TCE 005962877-01 P= 0.600323 Days $T_0=131.832869$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

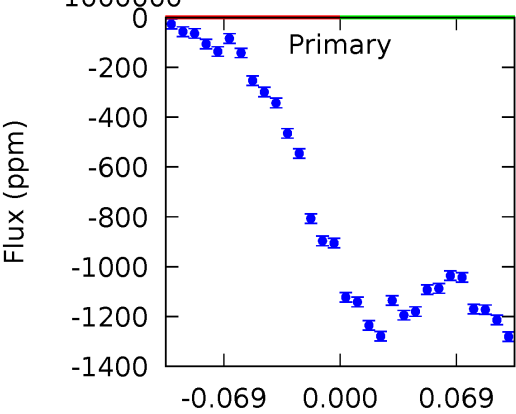
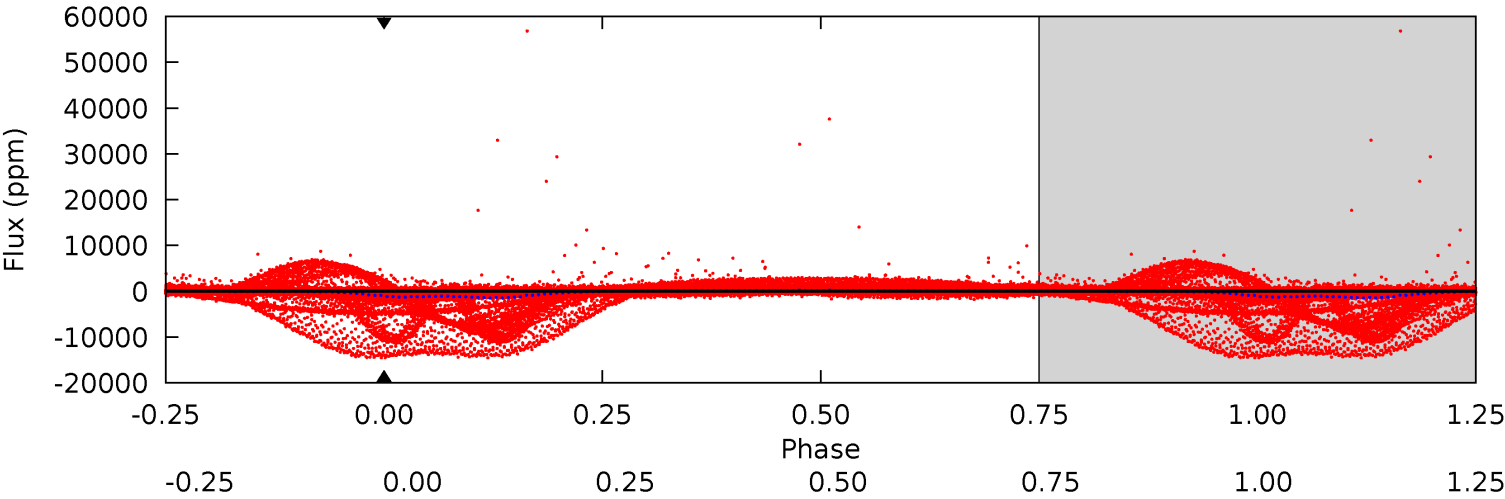
TCE 005962877-01 P= 0.600323 Days $T_0=131.852771$ (BKJD)



DV Model-Shift Uniqueness Test

005962877-01, P = 0.600323 Days, E = 131.232546 Days

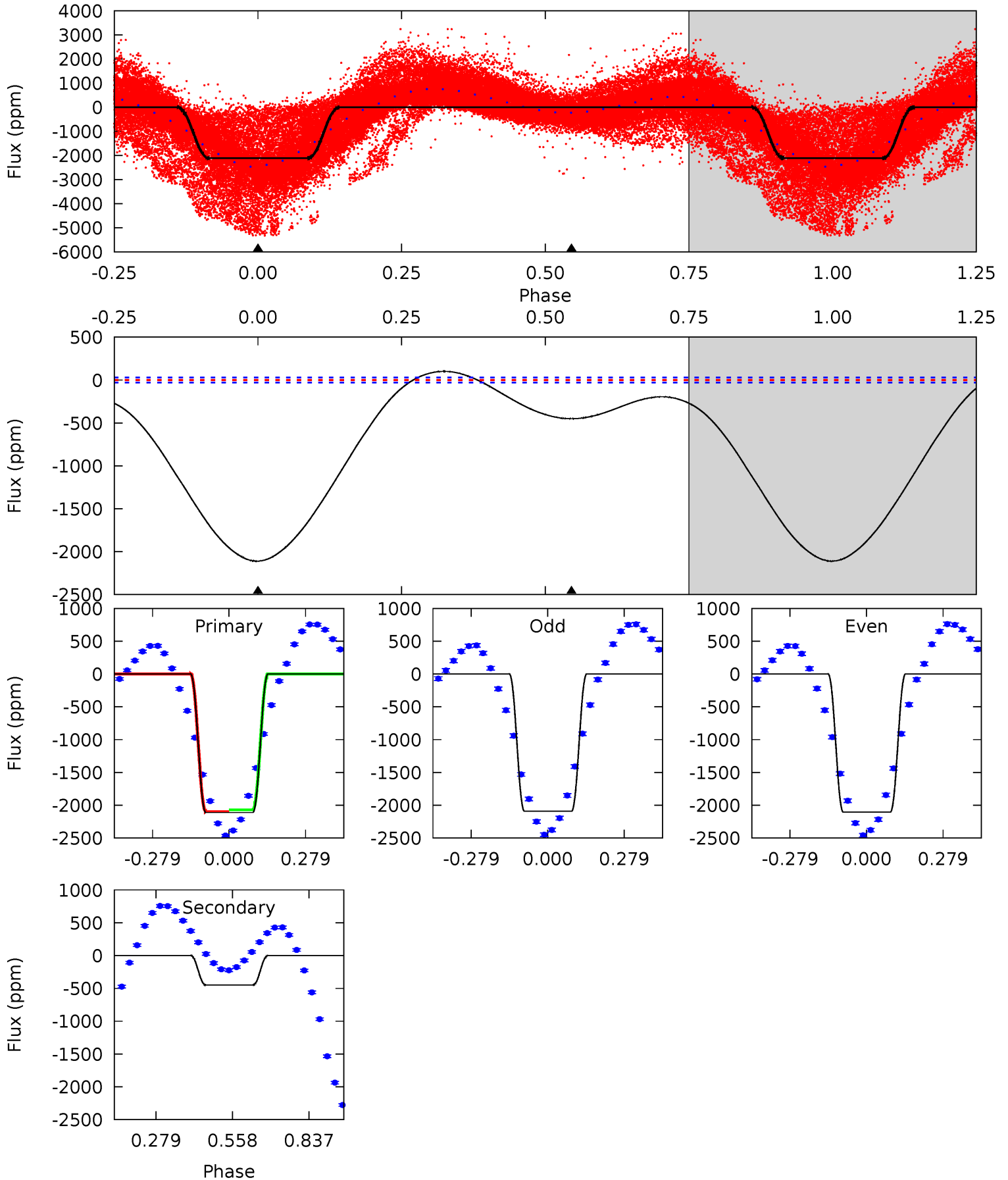
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005962877-01, P = 0.600323 Days, E = 131.252448 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
315.8	67.4	0	0	4.34	1.08	19.5	315.8	315.8	67.4	67.4	0.94	1.03	0.05	2.13



Stellar Parameters For KIC 005962877

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5910^{+159}_{-159}	$4.269^{+0.236}_{-0.193}$	$-0.460^{+0.300}_{-0.250}$	$1.116^{+0.329}_{-0.269}$	$0.843^{+0.116}_{-0.068}$	$0.854^{+1.124}_{-0.421}$
	+3%/-3%	+6%/-5%	+65%/-54%	+29%/-24%	+14%/-8%	+132%/-49%
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 005962877-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$11.42^{+10.59}_{-7.28}$	3334^{+270}_{-246}	-3673^{+18642}_{-10981}	$-0.379^{+110.201}_{-108.883}$
Alt.	-451 ± 7	$10.41^{+10.05}_{-7.08}$	3347^{+277}_{-300}	2844^{+2257}_{-5957}	$0.406^{+3.497}_{-0.301}$

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 $A_{\text{obs}} \gg 1.0$

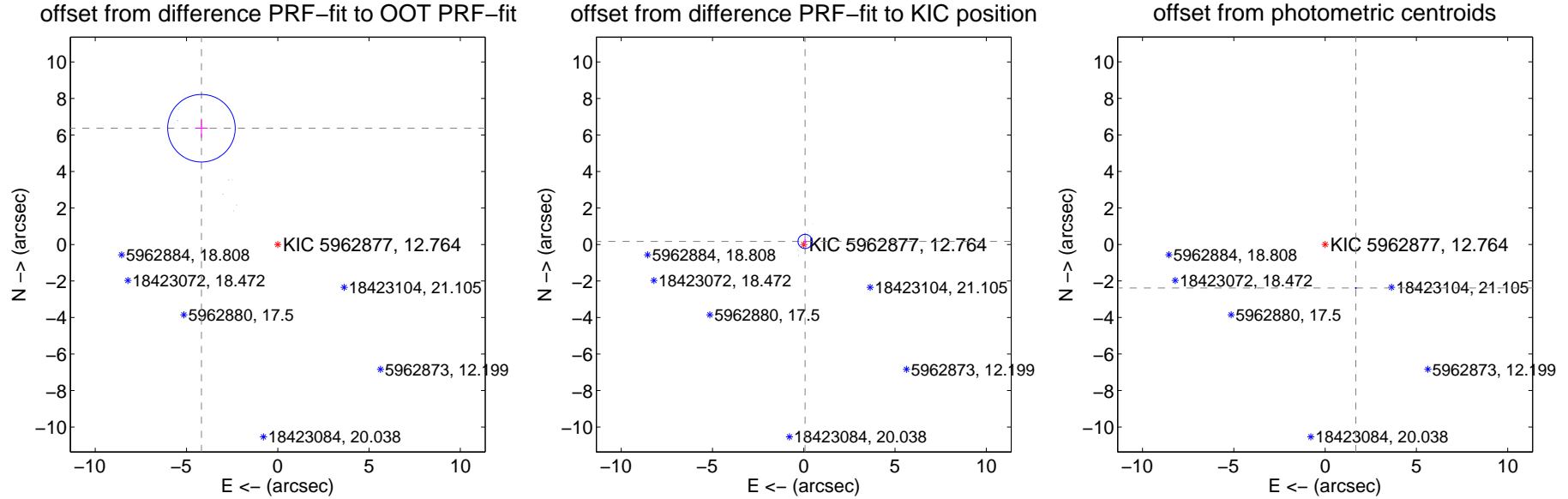
DV Centroid Data

Supplemental centroid analysis for 005962877-01. Kepler magnitude: 12.76. Transit SNR -1.00

There are 16 quarters with good PRF difference image offsets

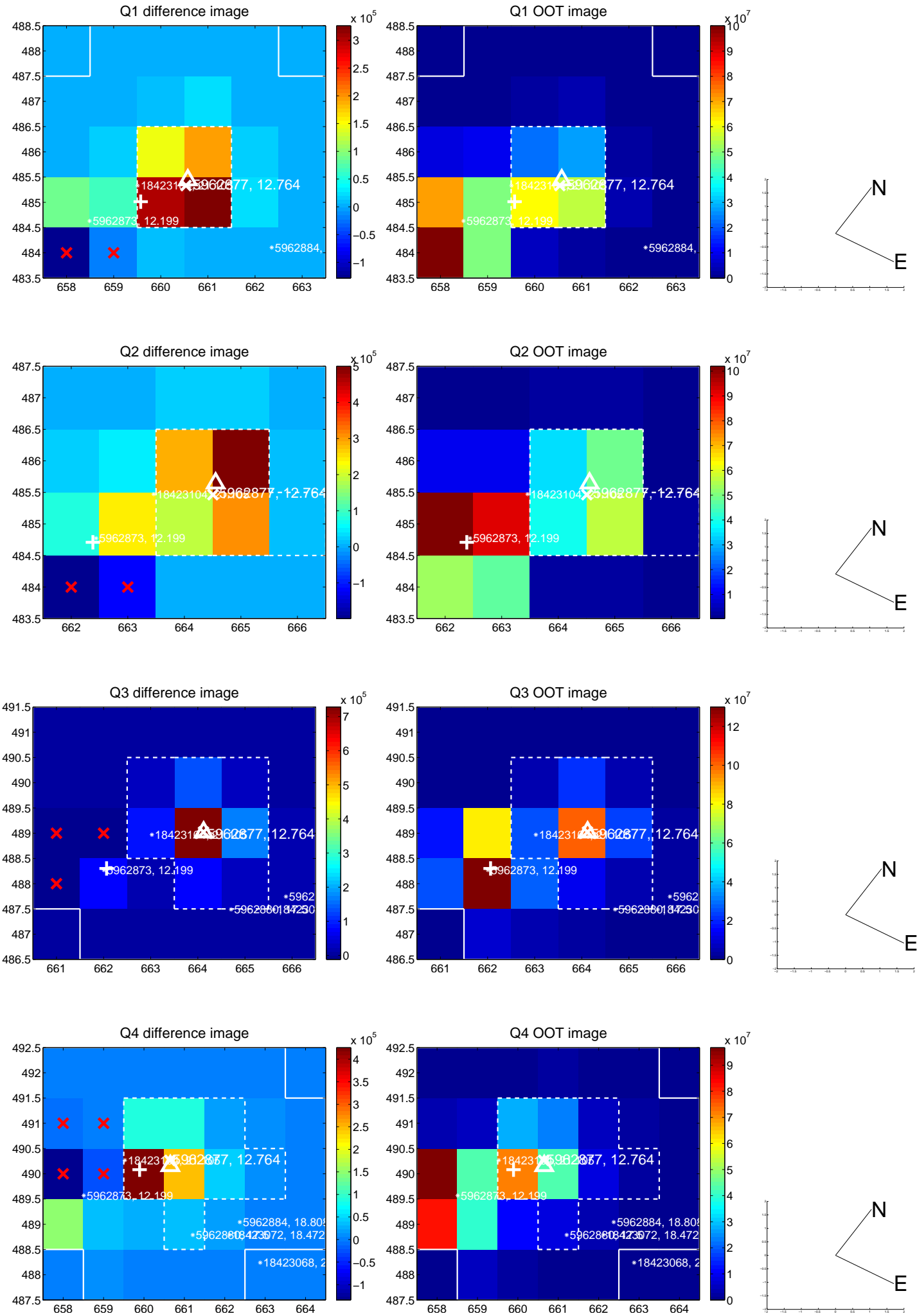
The OOT PRF centroid is offset from the target star catalog position by about 4.32 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	7.621 ± 0.617	12.36	4.182 ± 0.352	6.371 ± 0.523
PRF-fit source offset from KIC position	0.183 ± 0.130	1.41	-0.073 ± 0.085	0.168 ± 0.120
photometric centroid source offset	2.92 ± 0.01	346.99	-1.68 ± 0.01	-2.39 ± 0.01

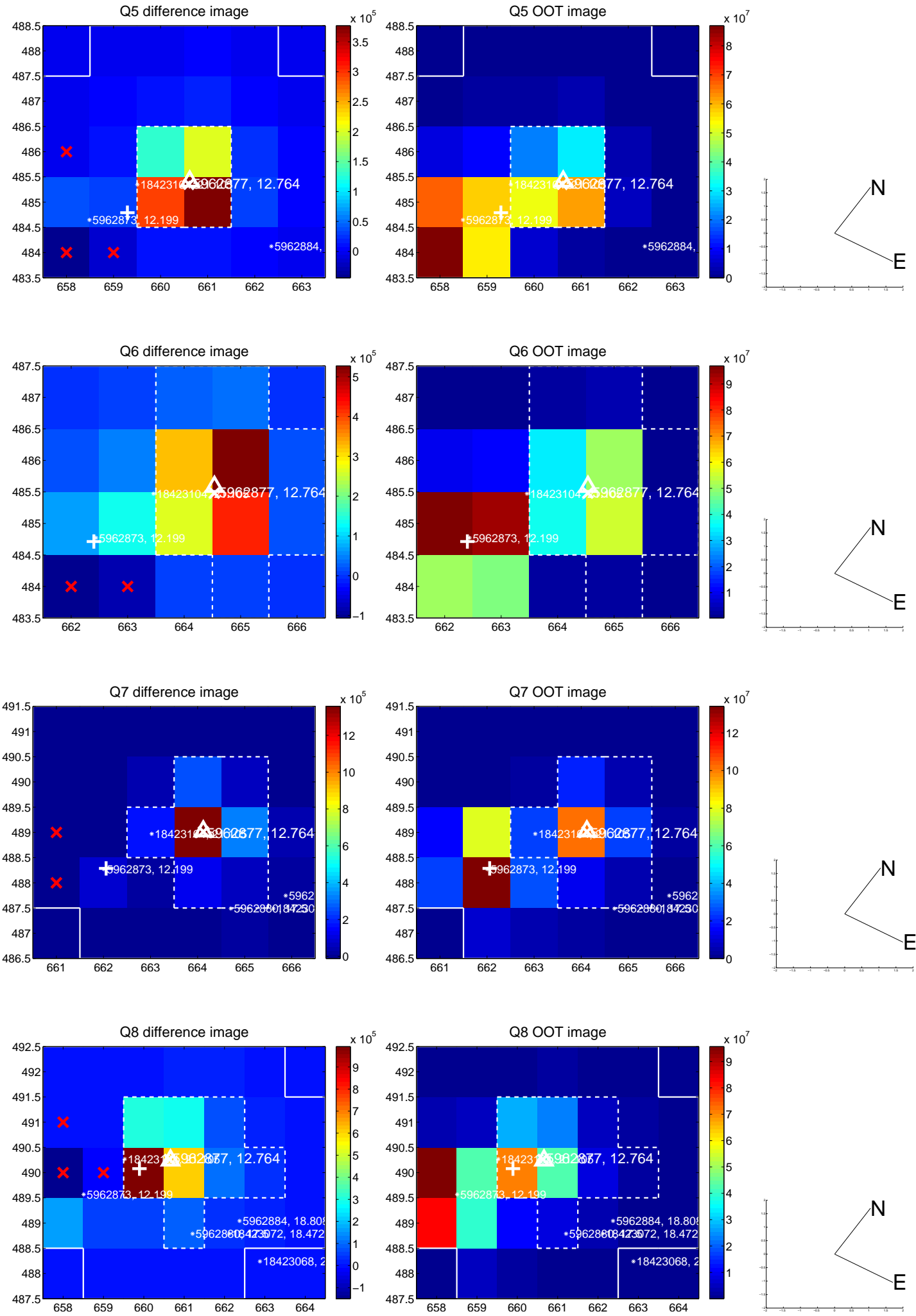


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

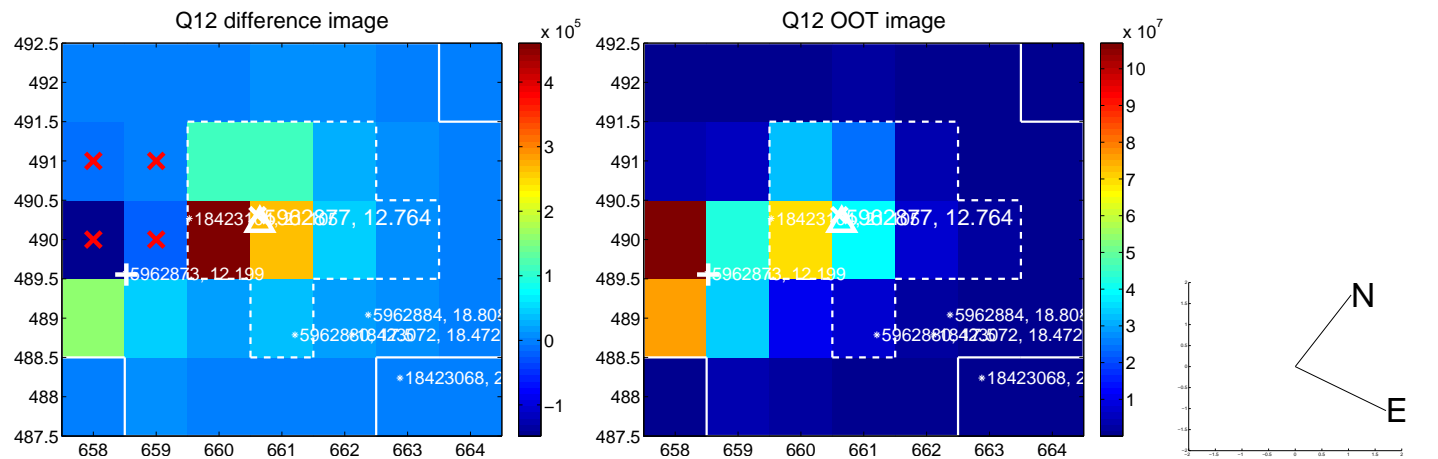
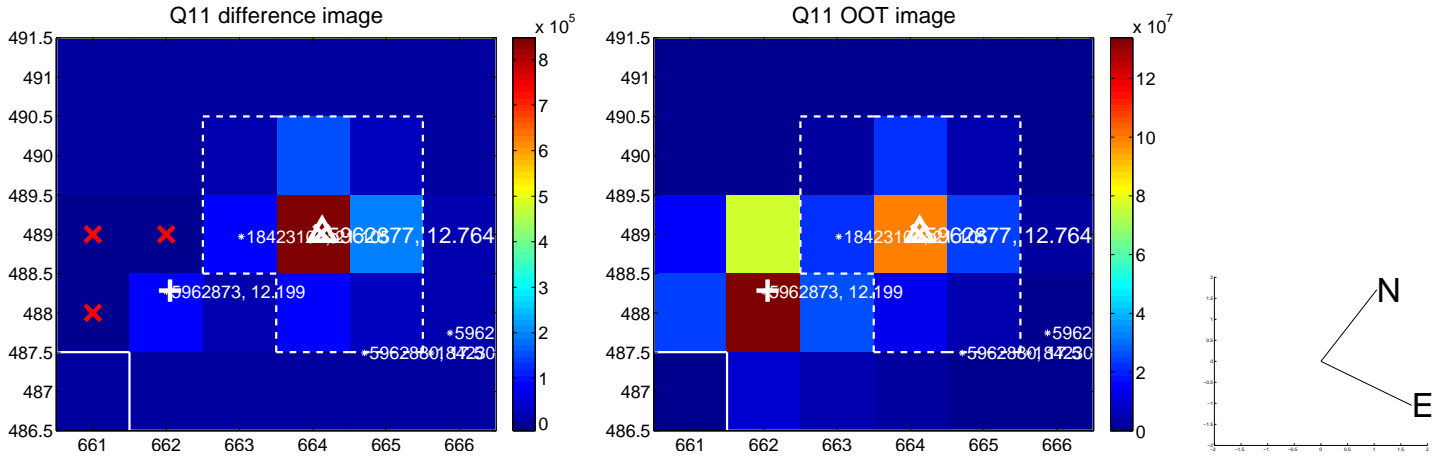
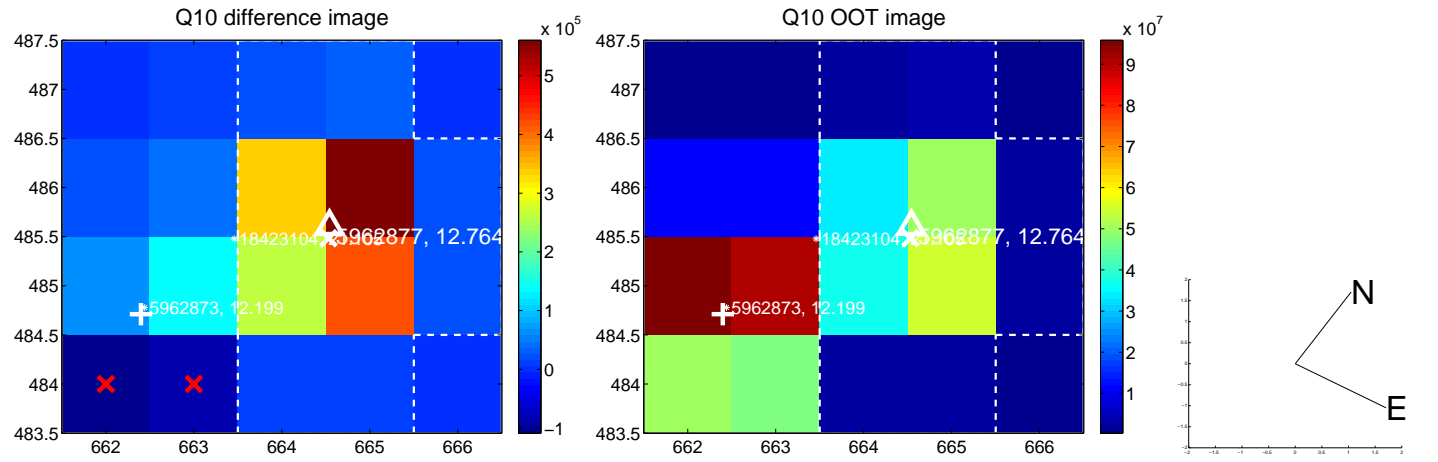
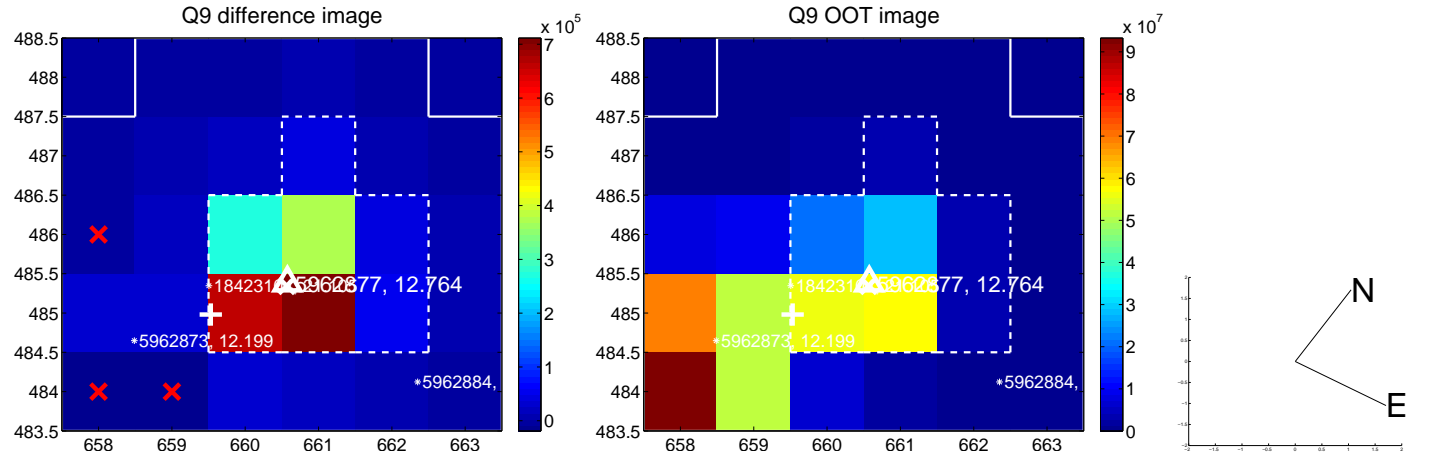
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



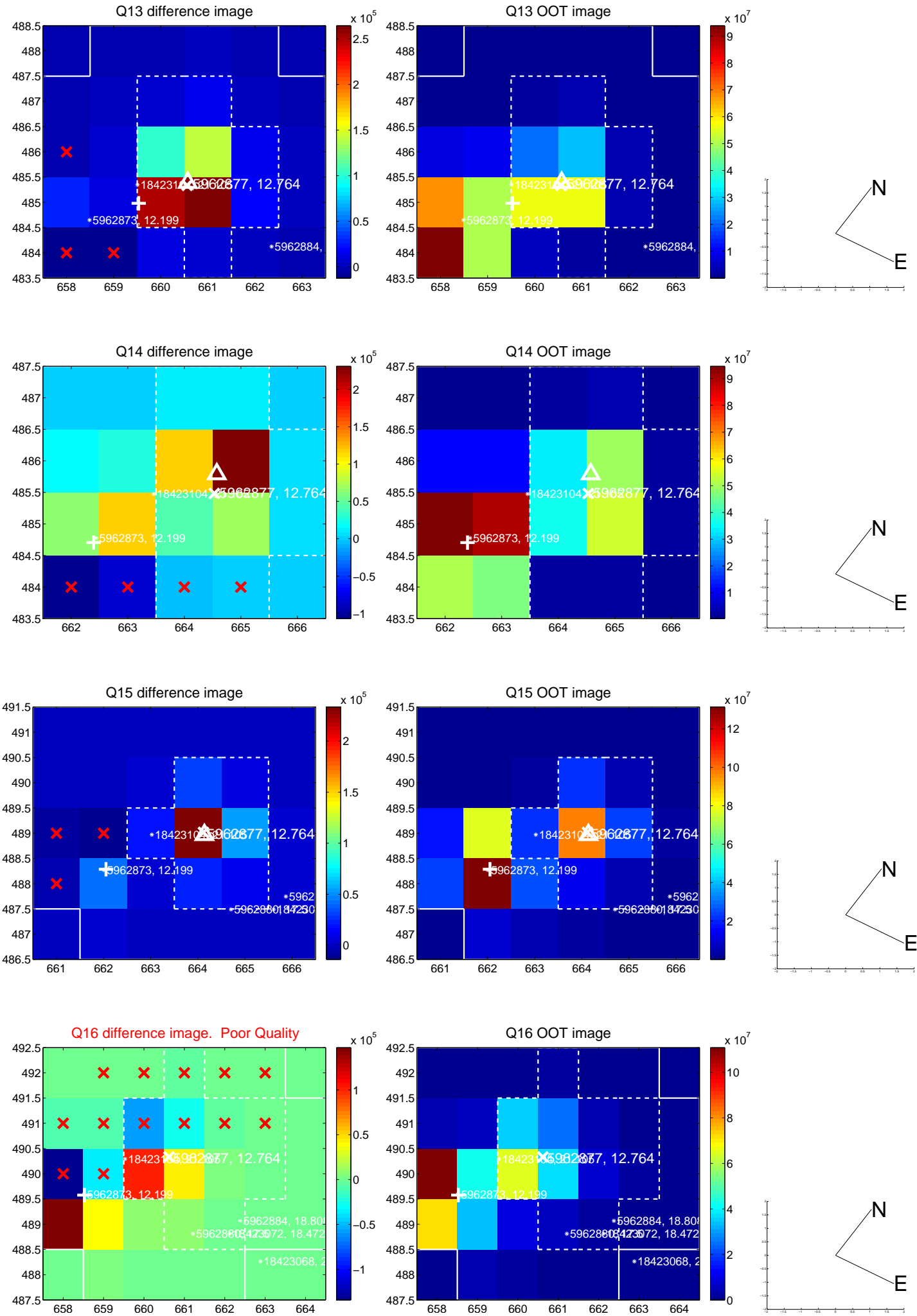
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



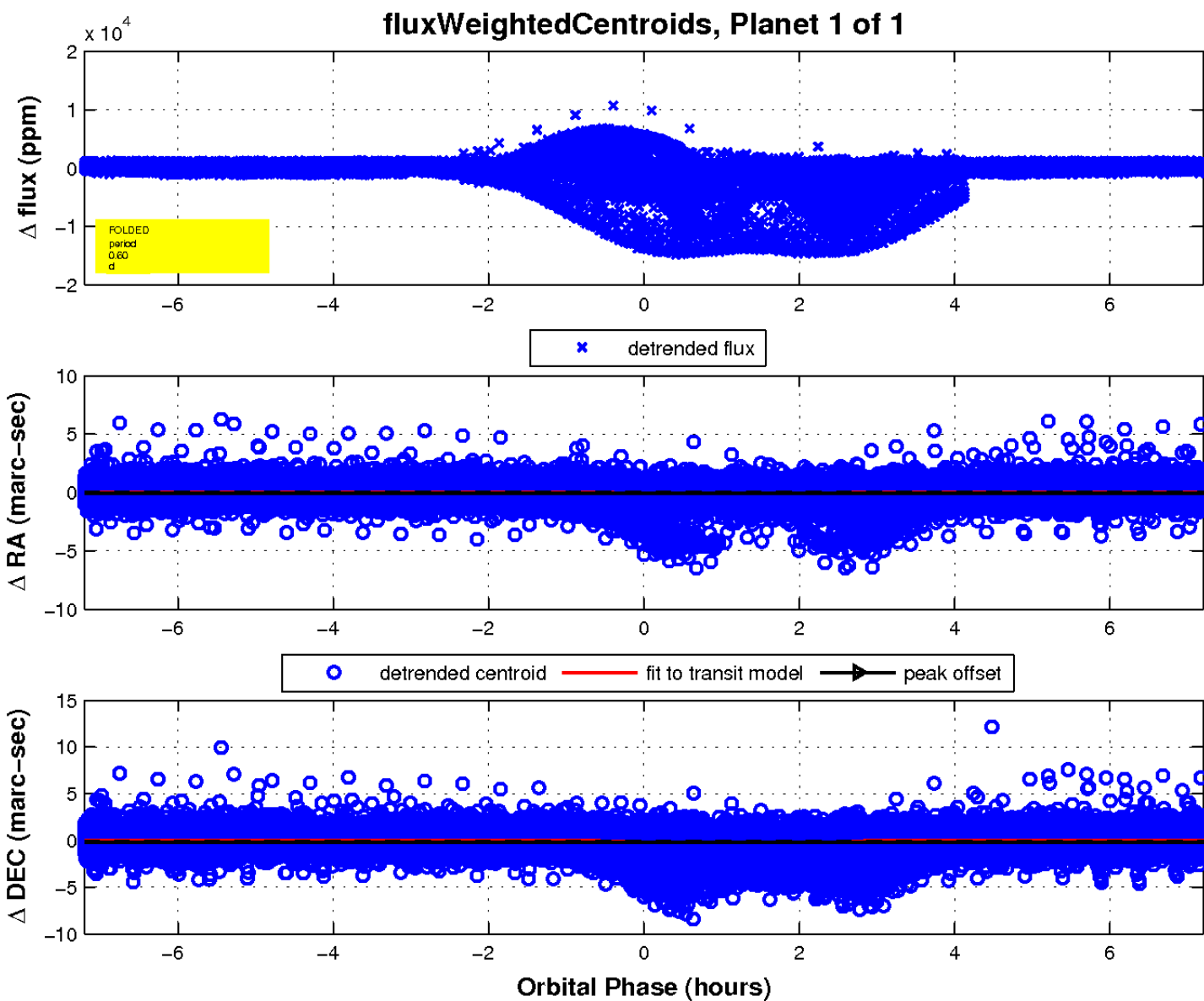
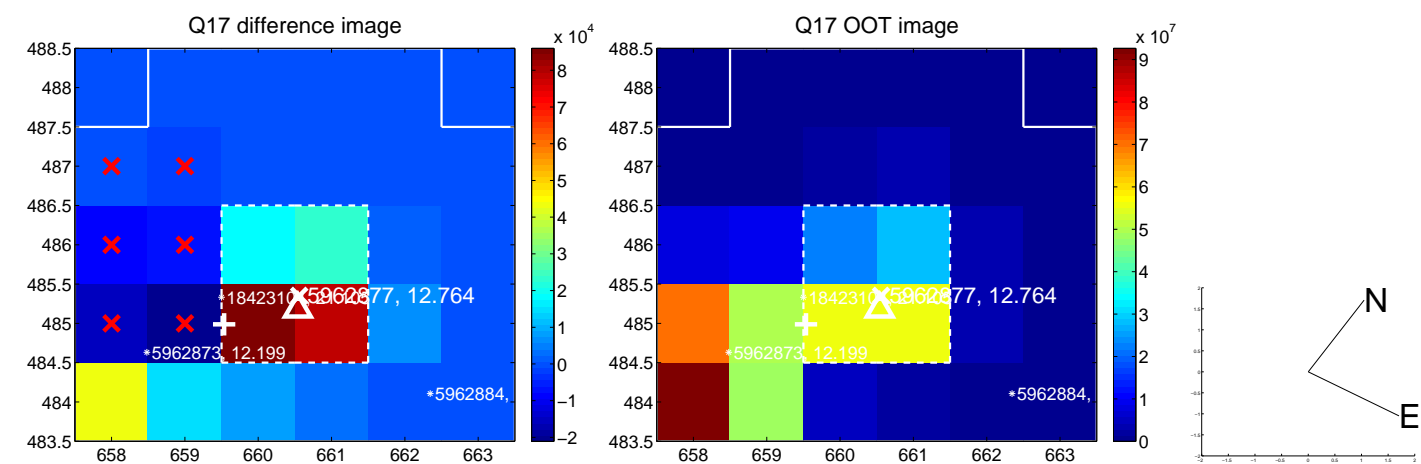
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

