

KIC 006187893

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})
006187893-01	OBS	No	0.789156	132.137988	56028.4	3.127	6650.2	1690.2	3.10	5374	96.15	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006187893-01	OBS	FP	0.00	1	0	0	0	LPP_DV

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.

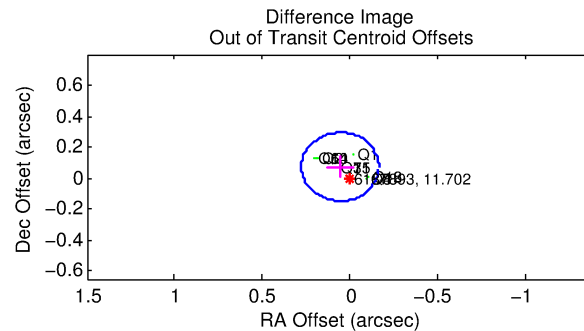
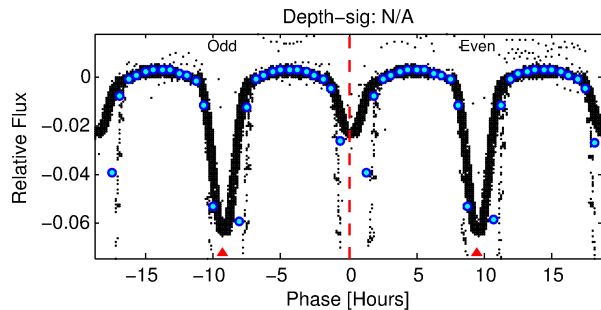
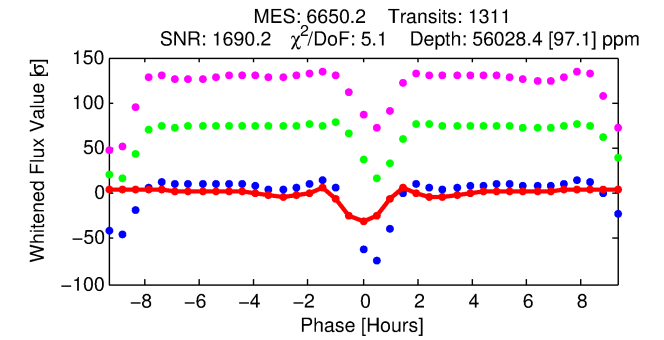
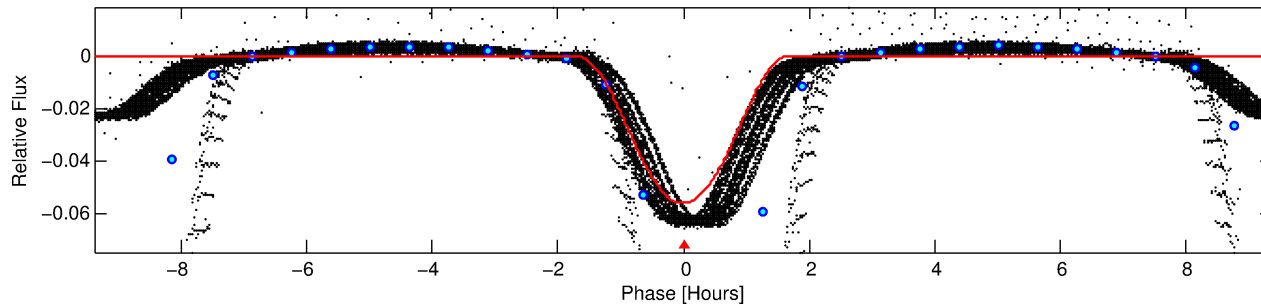
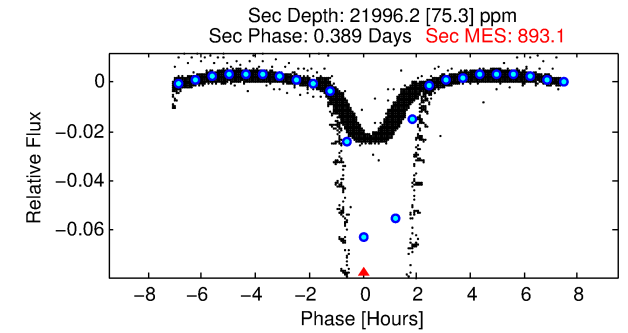
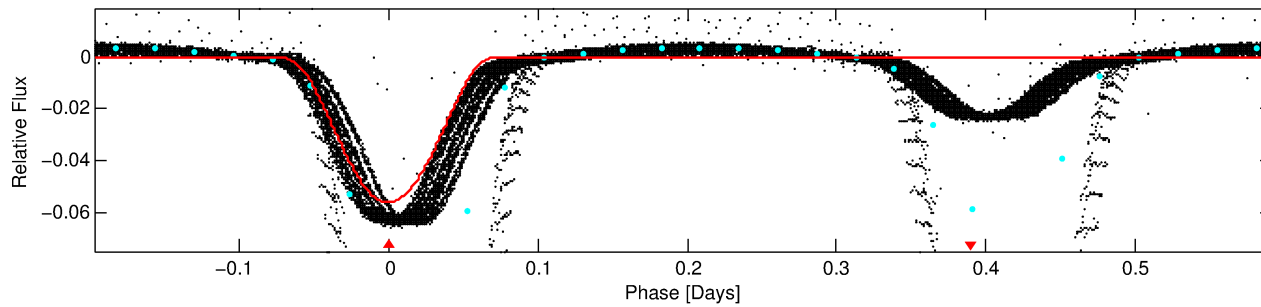
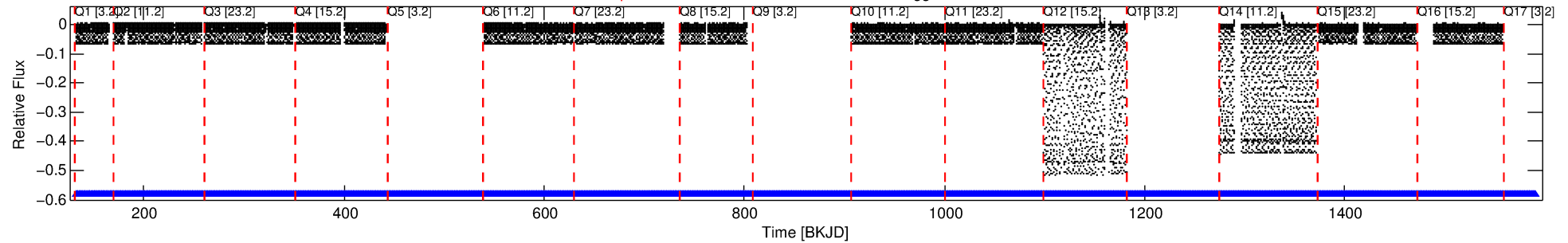
Ephemeris Match Information For 006187893-01

No Significant Match Found

DV One-Page Summary

KIC: 6187893 Candidate: 1 of 1 Period: 0.789 d

Kp: 11.70 R*: 3.10 Rs Teff: 5374.0 K Logg: 3.34 Fe/H: -1.420



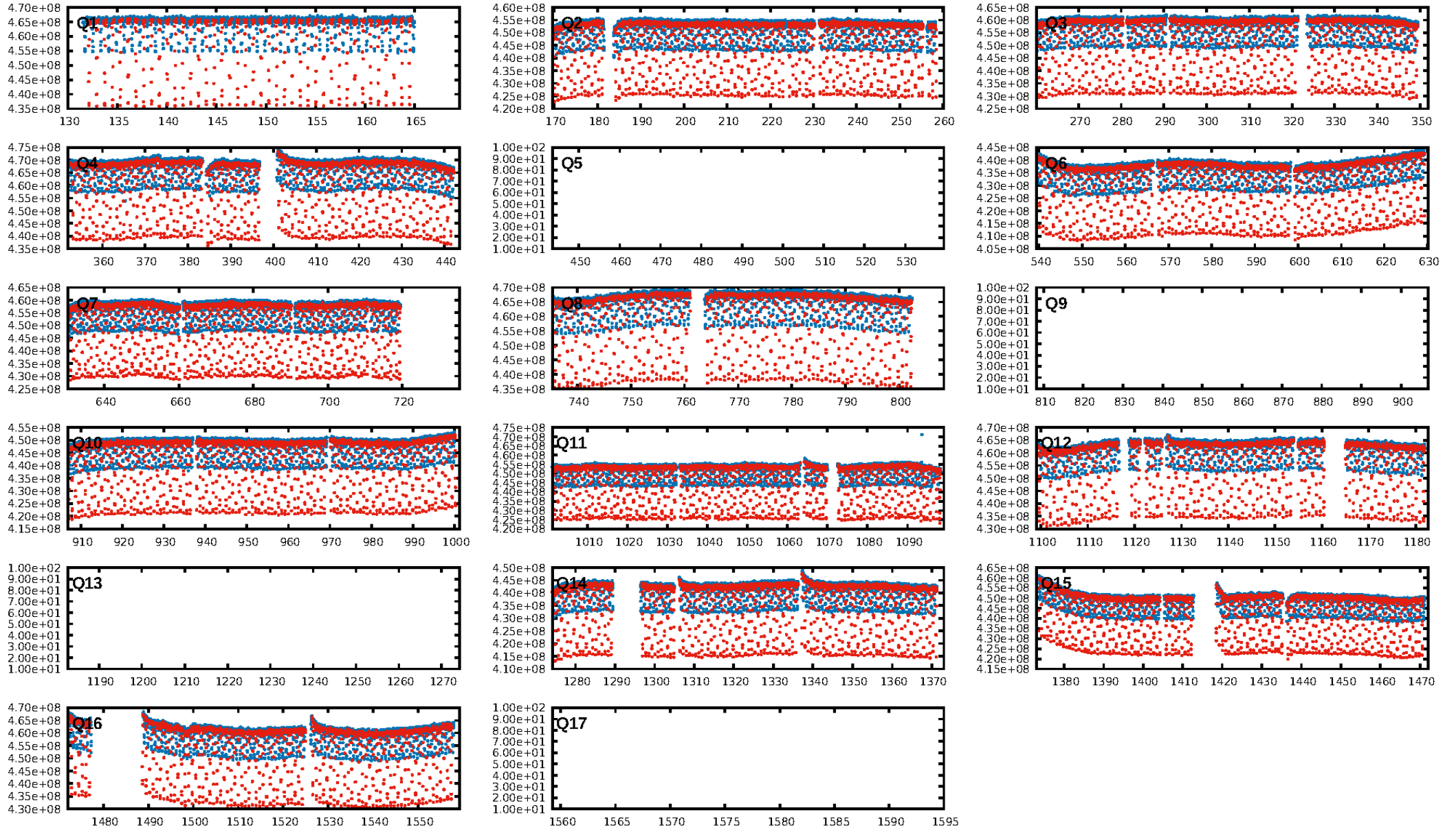
DV Fit Results:

Period = 0.78916 [0.00000] d
Epoch = 132.1380 [0.0000] BKJD
Rp/R* = 0.2840 [0.0028]
a/R* = 2.10 [0.00]
b = 0.86 [0.00]
Seff = N/A
Teq = N/A
Rp = 96.15 [73.88] Re
a = N/A
Ag = N/A
Teffp = N/A

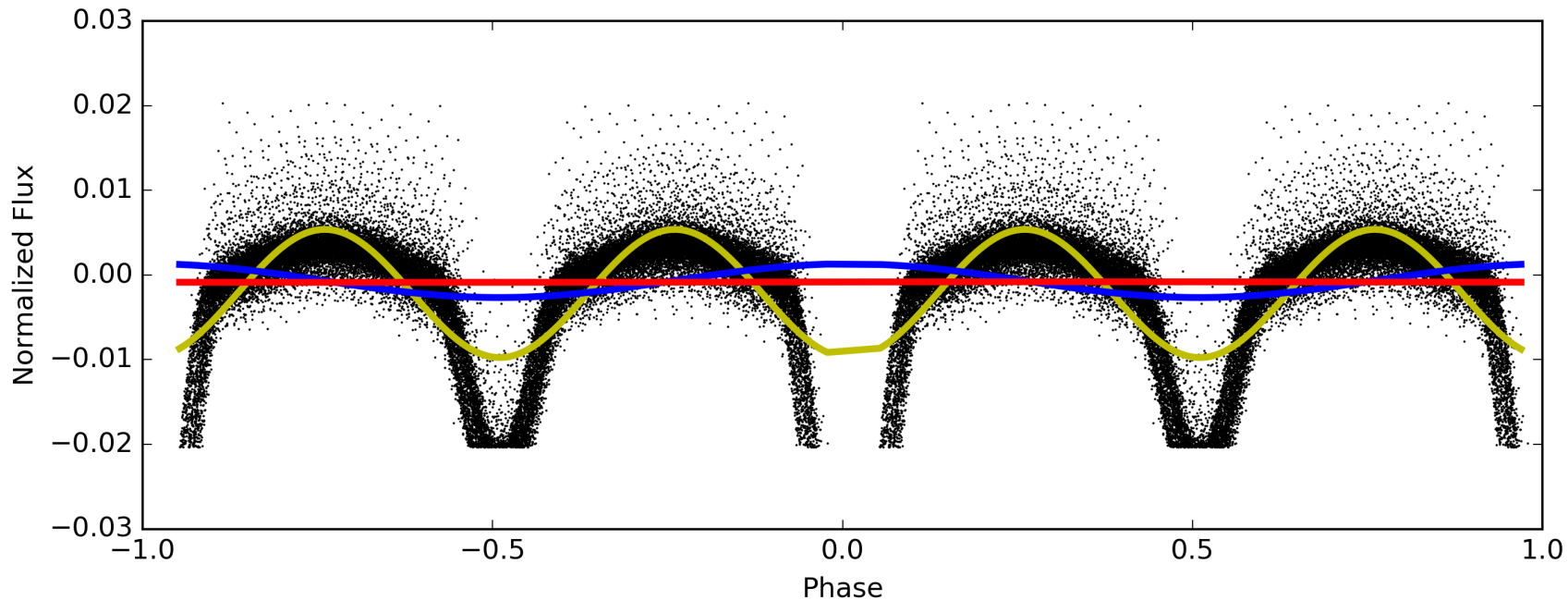
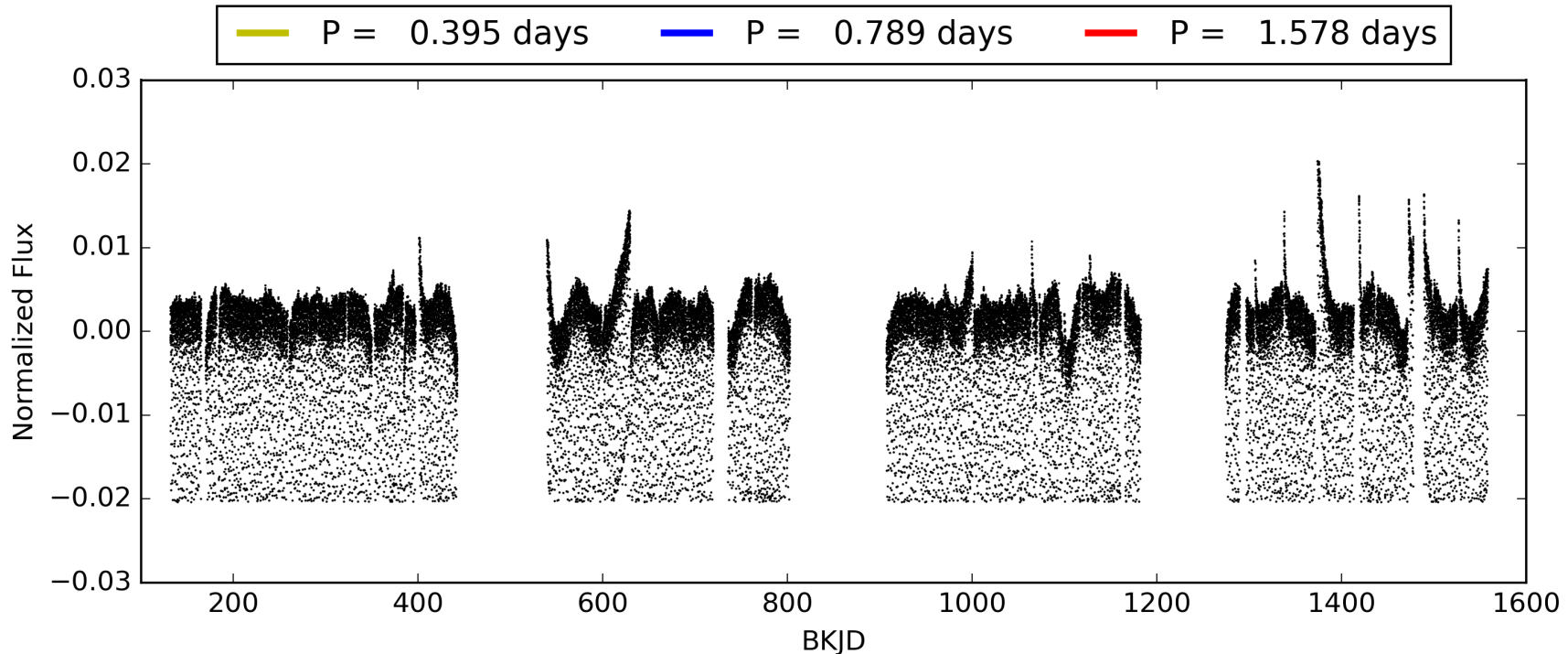
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGo-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1269/1269]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: 0.080 arcsec [212.72σ]
OotOffset-rm: 0.093 arcsec [1.27σ]
KicOffset-rm: 0.101 arcsec [1.36σ]
OotOffset-st: 4/4/4/1 [13]
KicOffset-st: 4/4/4/1 [13]
DiffImageQuality-fgm: 1.00 [13/13]
DiffImageOverlap-fno: 1.00 [13/13]

TCE 006187893-01, PDC Light Curves

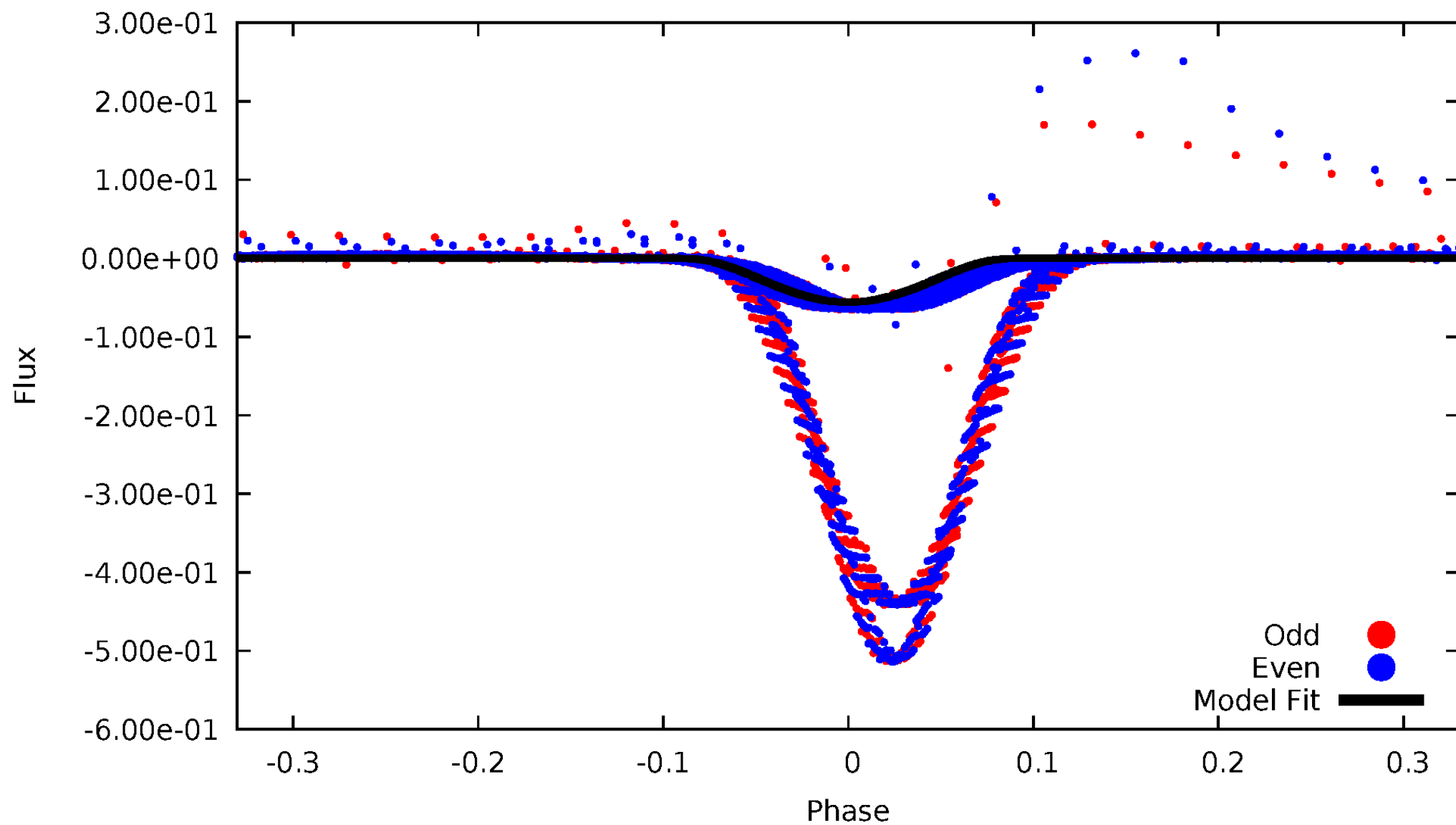


TCE 006187893-01



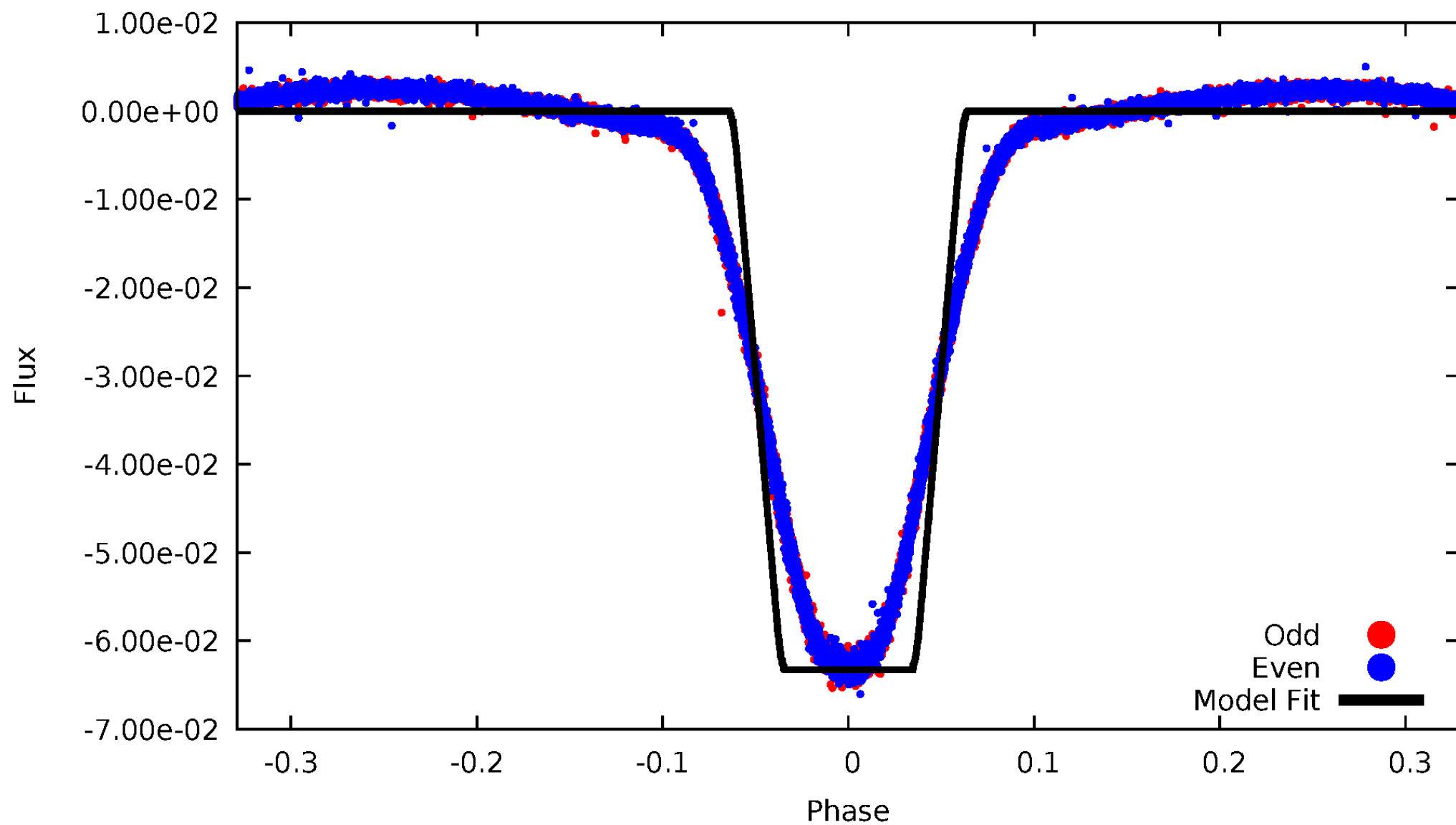
DV Odd/Even

TCE 006187893-01



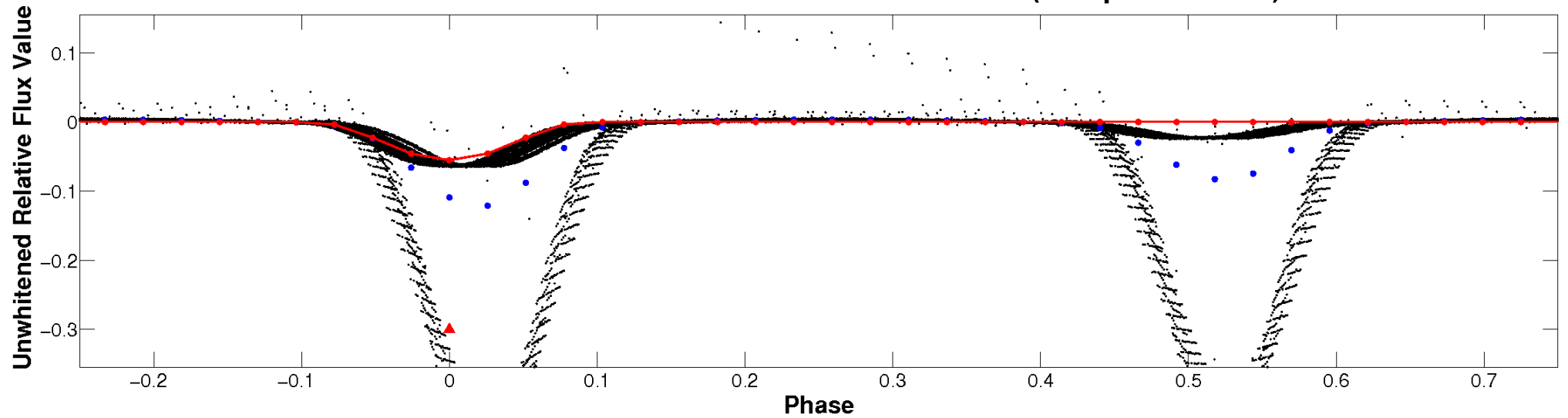
ALT Odd/Even

TCE 006187893-01

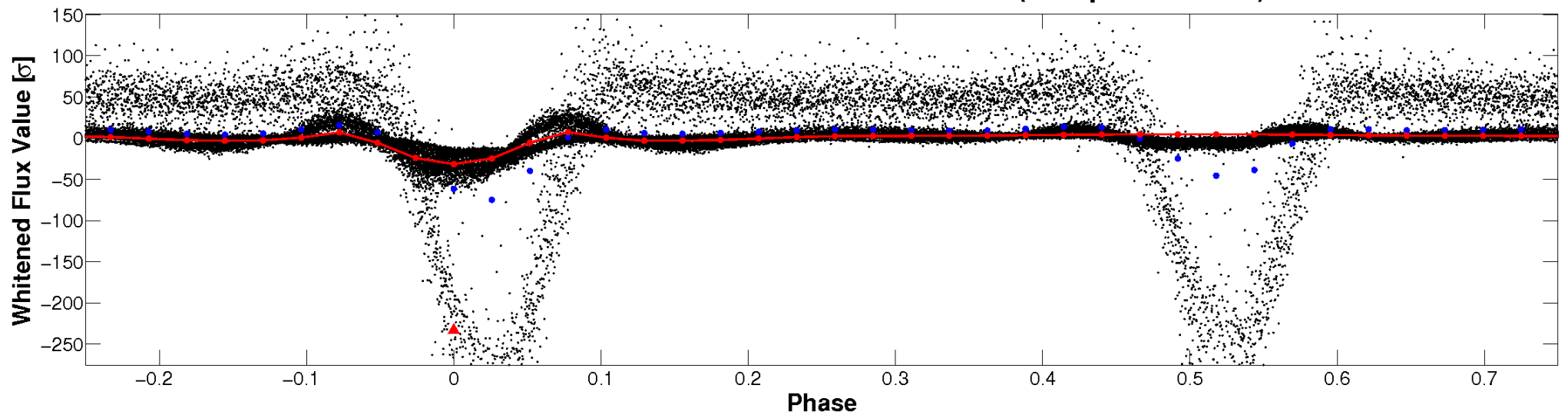


Non-Whitened Vs. Whitened Light Curve

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

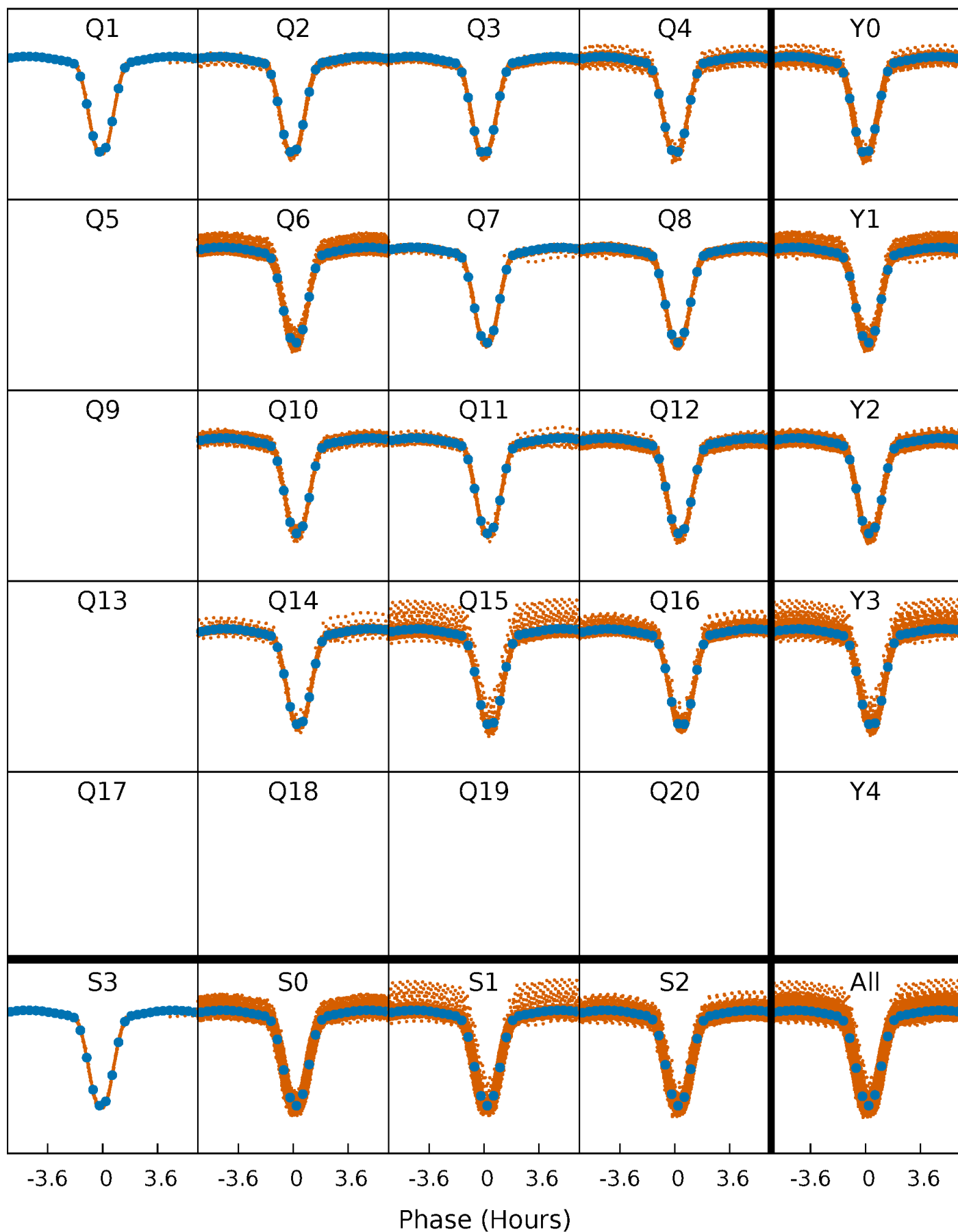


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



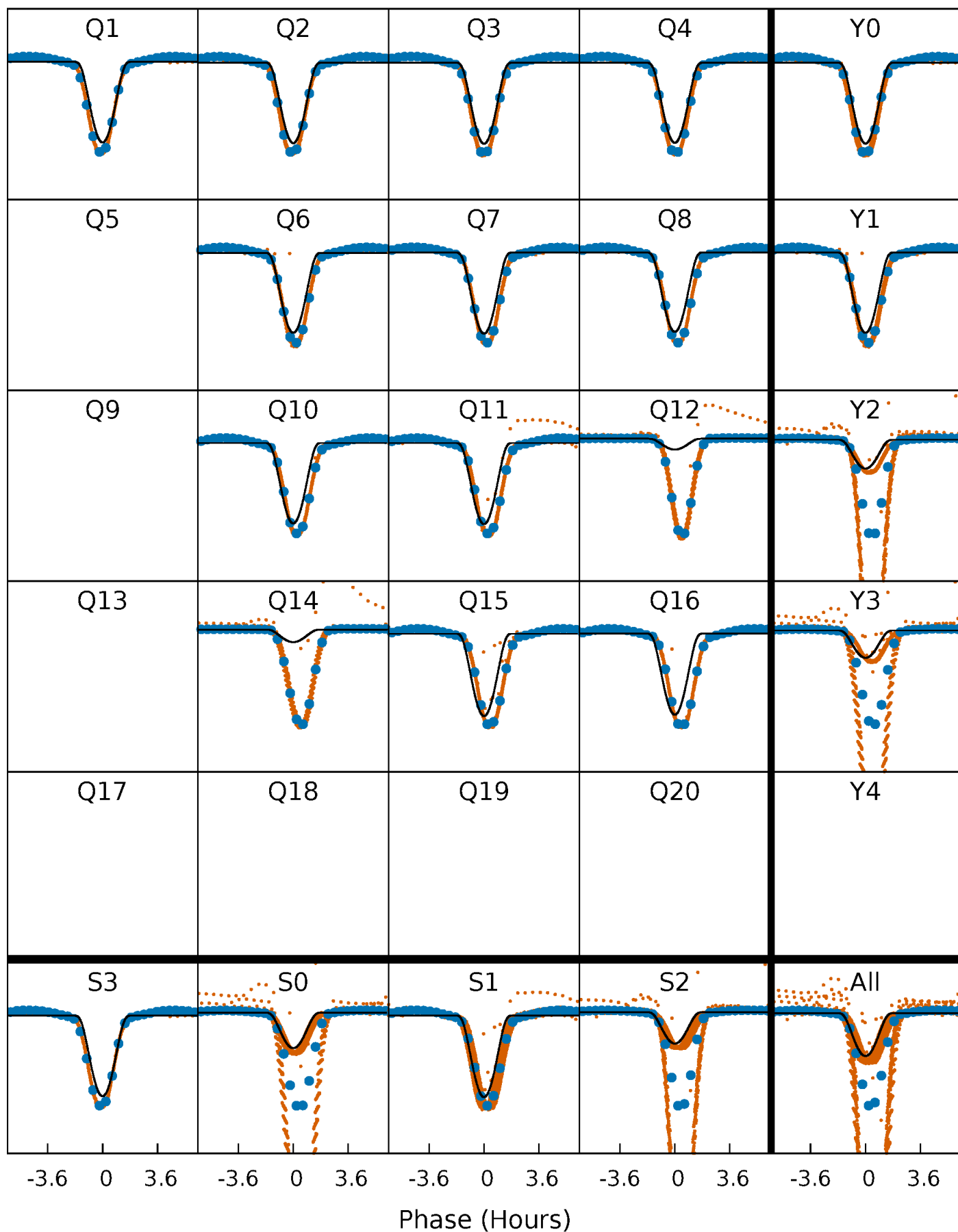
PDC Quarter-Phased Transit Curves

TCE 006187893-01 P= 0.789156 Days $T_0=132.137988$ (BKJD)



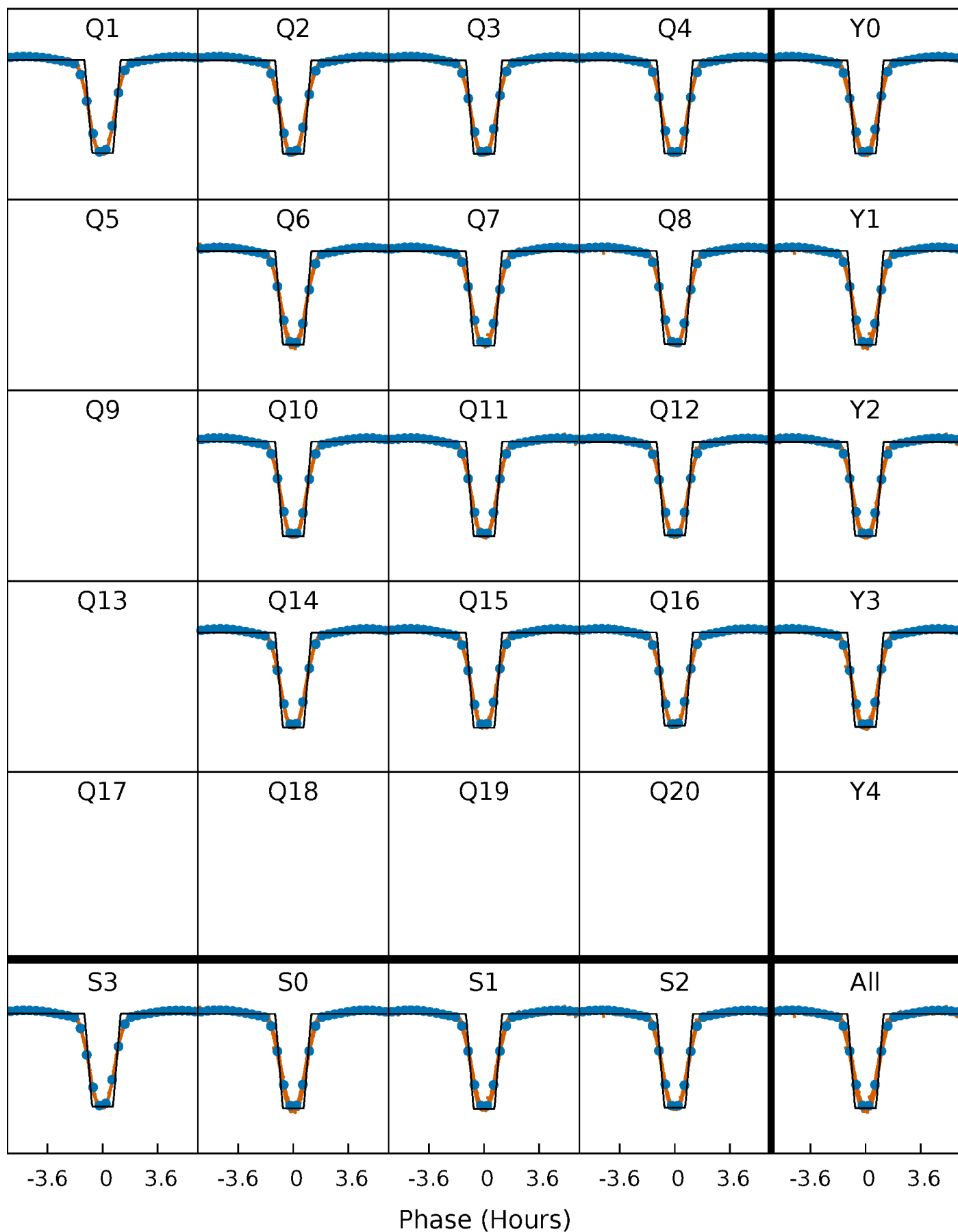
DV Quarter-Phased Transit Curves

TCE 006187893-01 P= 0.789156 Days $T_0=132.137988$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

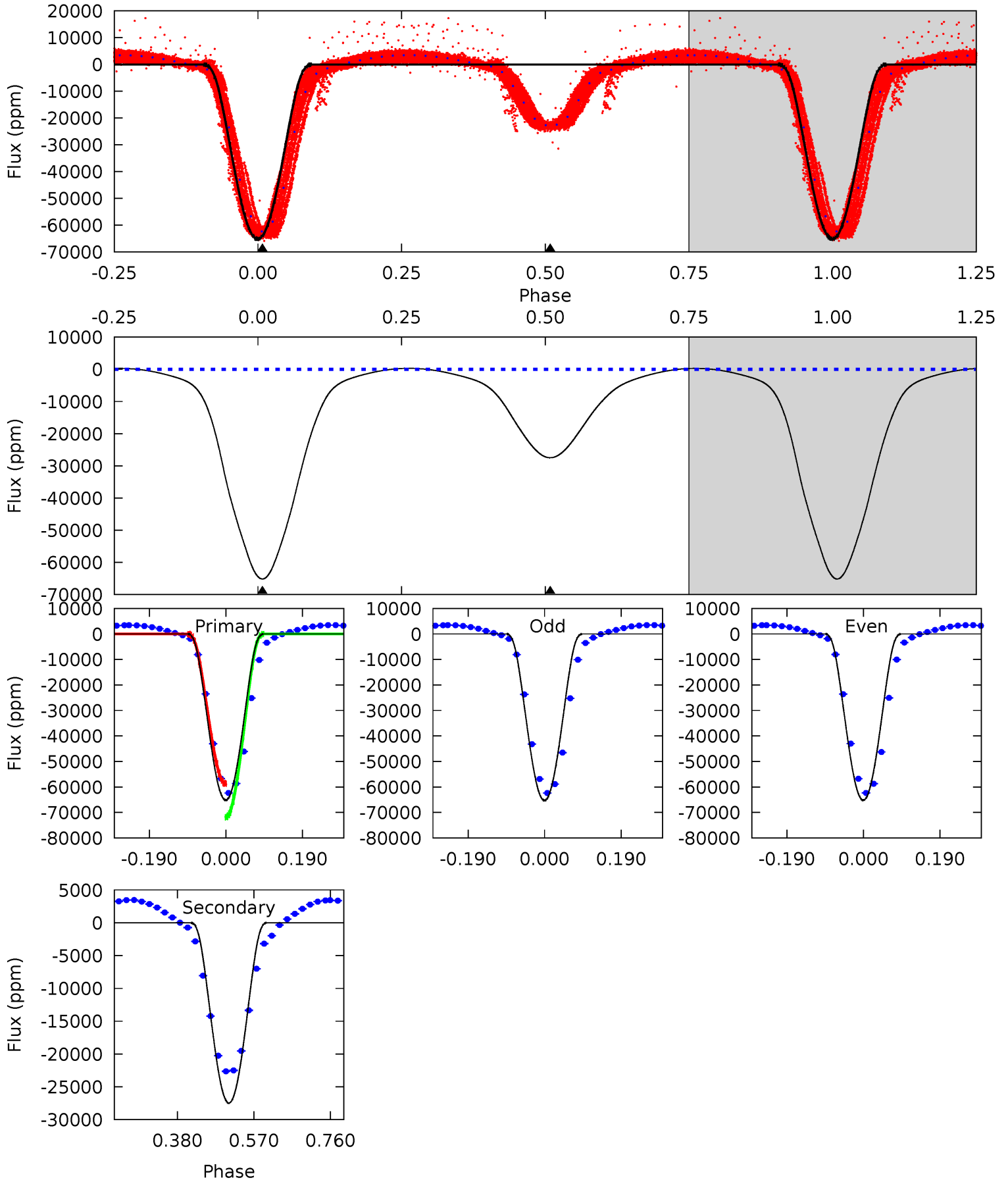
TCE 006187893-01 P= 0.789167 Days $T_0=132.135659$ (BKJD)



DV Model-Shift Uniqueness Test

006187893-01, P = 0.789156 Days, E = 131.348832 Days

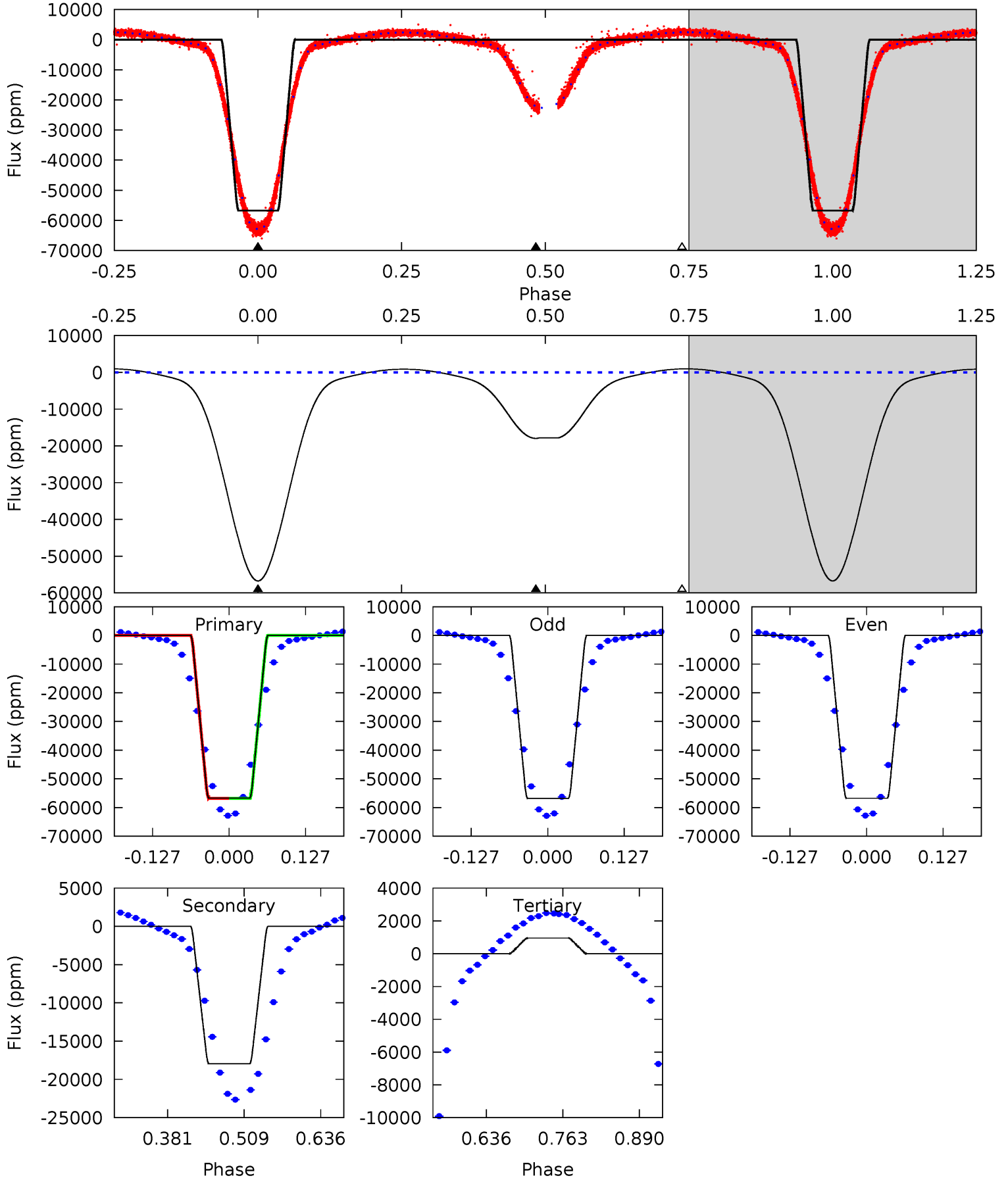
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1728	728.6	0	0	4.43	1.31	9.36	1728	1728	728.6	728.6	1.54	1.80	0.00	172.8



Alt Model-Shift Uniqueness Test

006187893-01, P = 0.789167 Days, E = 131.346492 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2715	859.2	-45.4	0	4.51	1.53	49.9	2760	2715	904.7	859.2	0.42	1.00	0.02	0.08



Stellar Parameters For KIC 006187893

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5374^{+107}_{-96}	$3.337^{+0.325}_{-0.325}$	$-1.420^{+0.350}_{-0.250}$	$3.103^{+1.951}_{-2.384}$	$0.763^{+0.276}_{-0.149}$	$0.036^{+2.865}_{-0.027}$
	+2%/-2%	+10%/-10%	+25%/-18%	+63%/-77%	+36%/-20%	+7963%/-75%
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 006187893-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-27477 ± 38	$106.32^{+29.45}_{-26.60}$	4898^{+646}_{-573}	3061^{+728}_{-6809}	$0.341^{+0.220}_{-0.132}$
Alt.	-17954 ± 21	$93.26^{+27.16}_{-22.11}$	4902^{+599}_{-561}	-2796^{+6299}_{-1138}	$0.280^{+0.173}_{-0.103}$

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 $A_{obs} \gg 1.0$

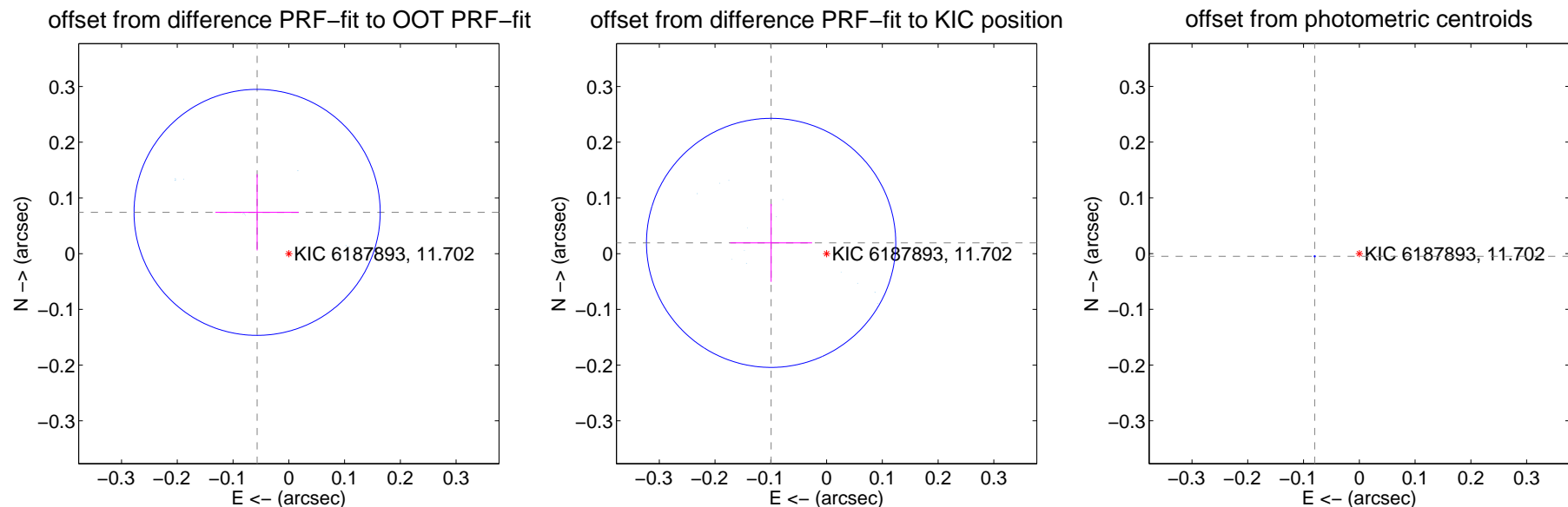
DV Centroid Data

Supplemental centroid analysis for 006187893-01. **Kepler magnitude: 11.70.** Transit SNR 1690.23

There are 13 quarters with good PRF difference image offsets

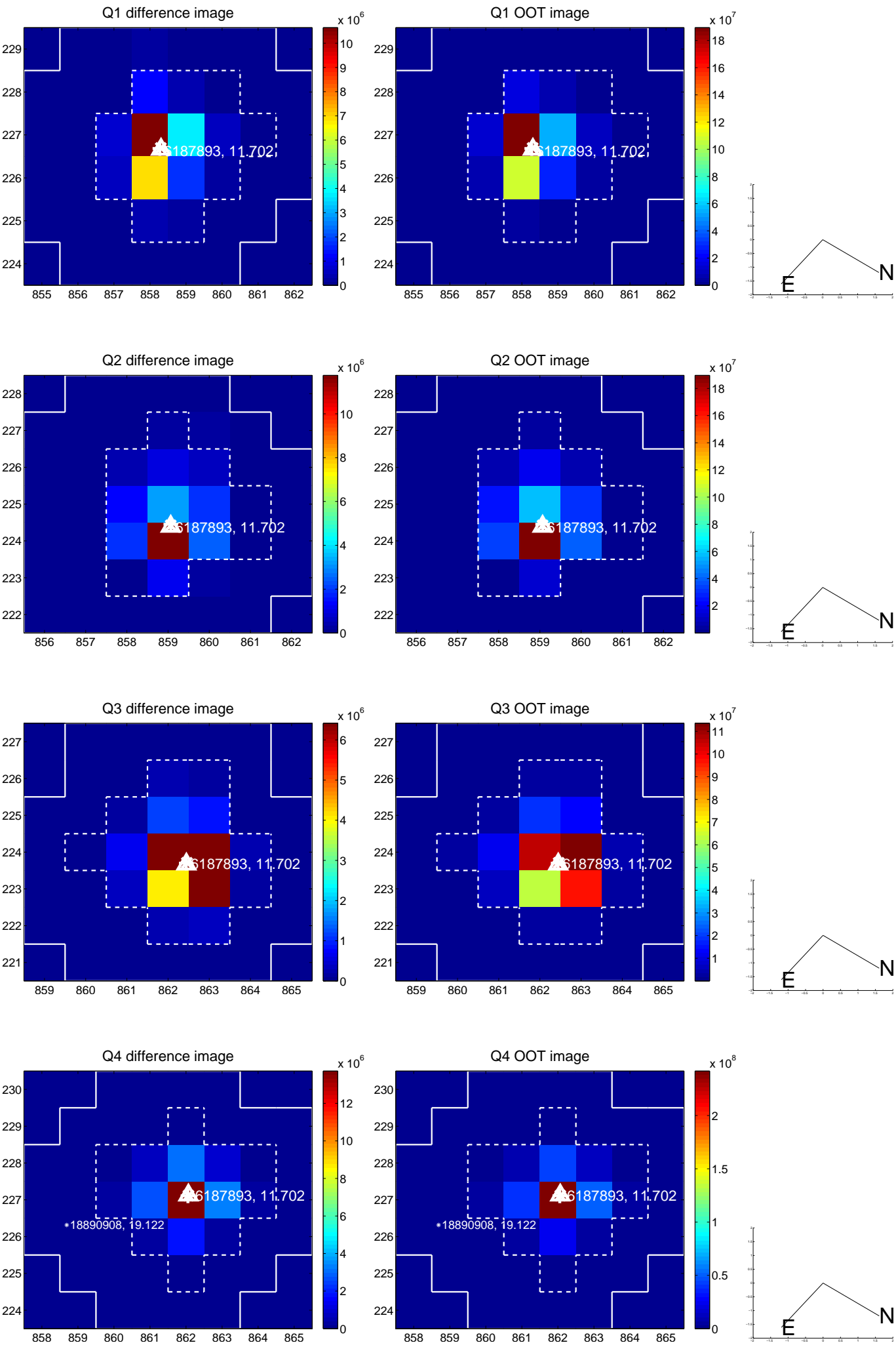
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.093 ± 0.074	1.27	0.057 ± 0.075	0.074 ± 0.068
PRF-fit source offset from KIC position	0.101 ± 0.074	1.36	0.099 ± 0.073	0.019 ± 0.070
photometric centroid source offset	0.08 ± 0.00	212.72	0.08 ± 0.00	-0.00 ± 0.00

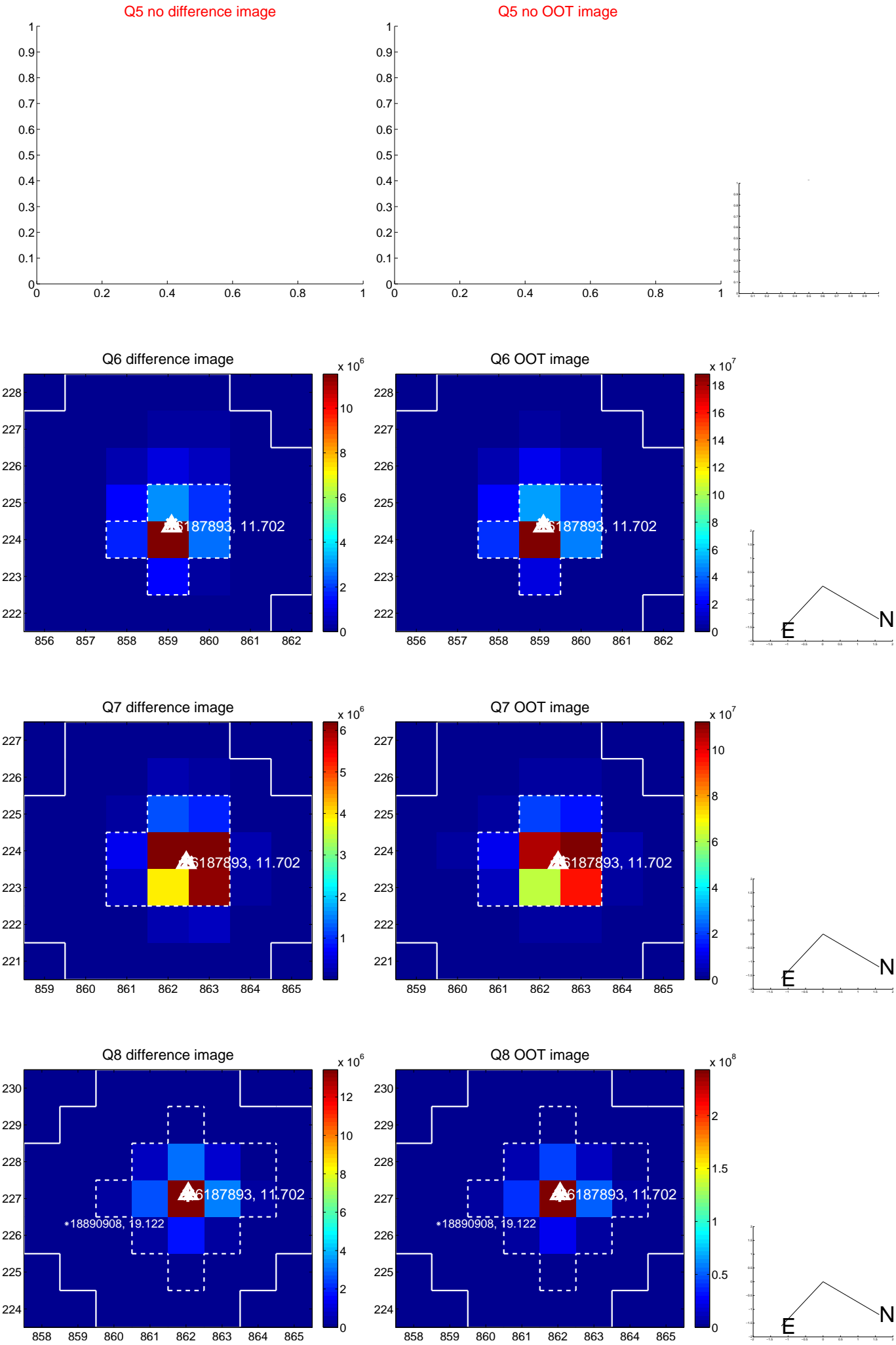


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

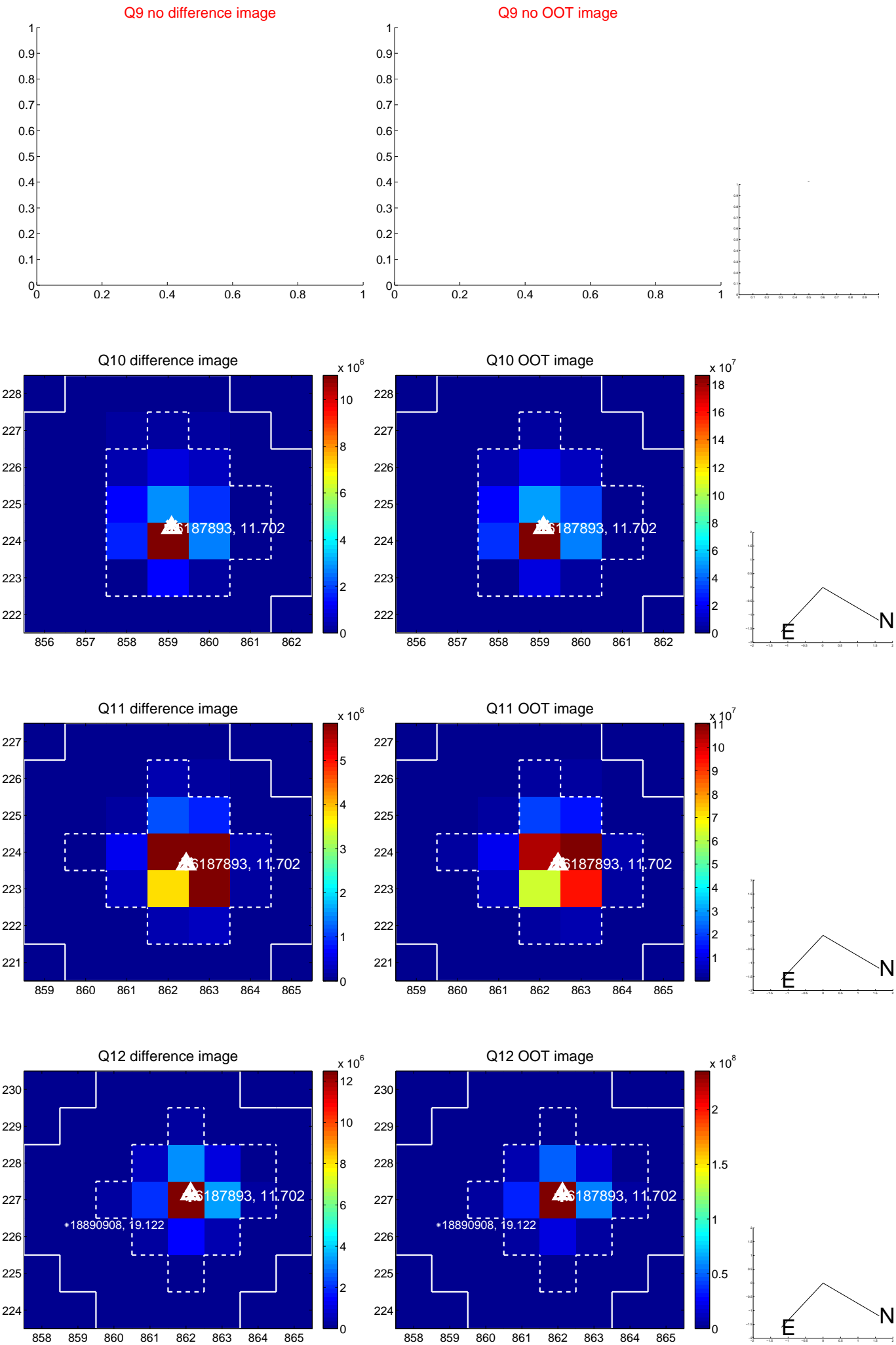
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



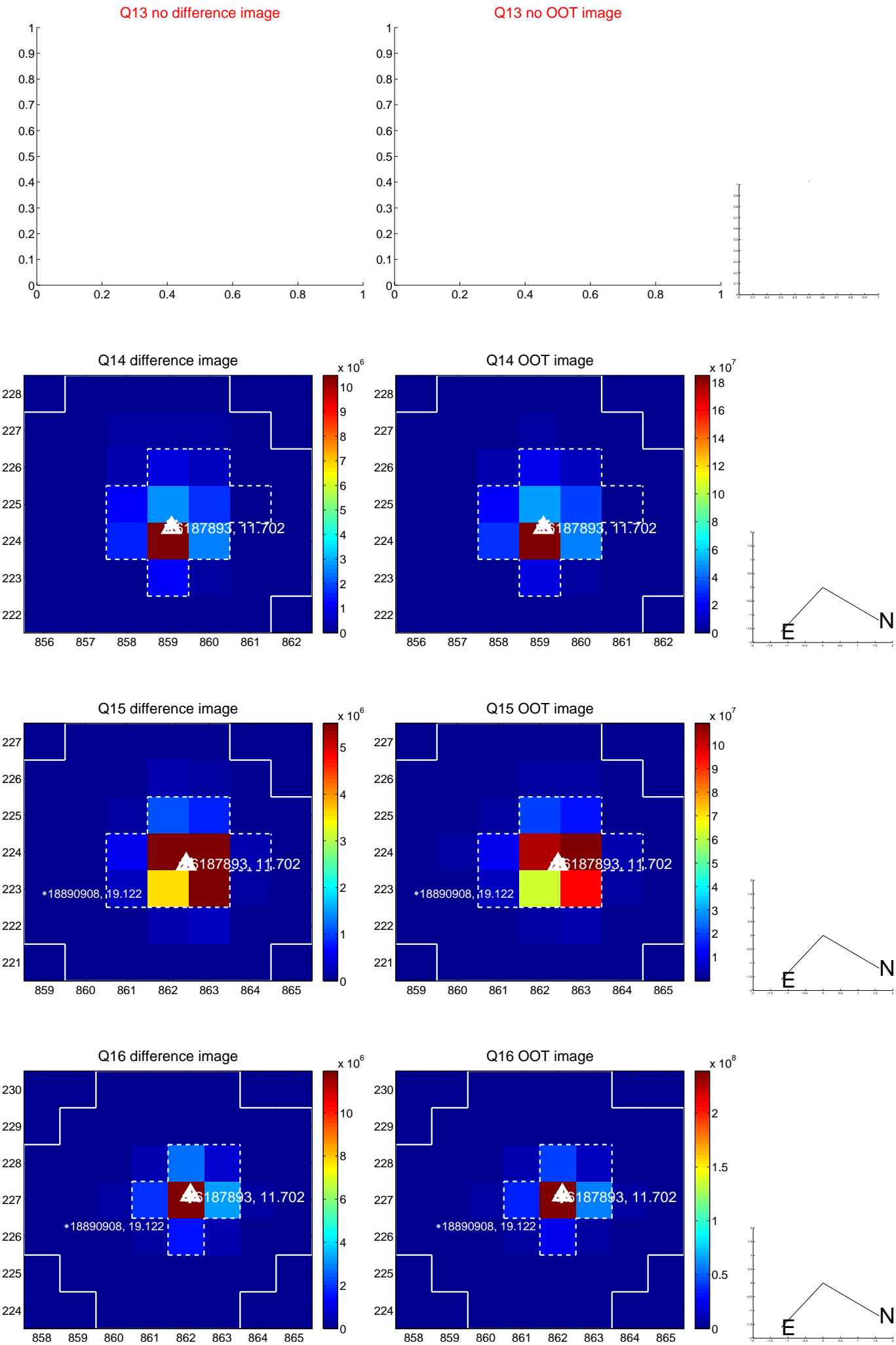
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



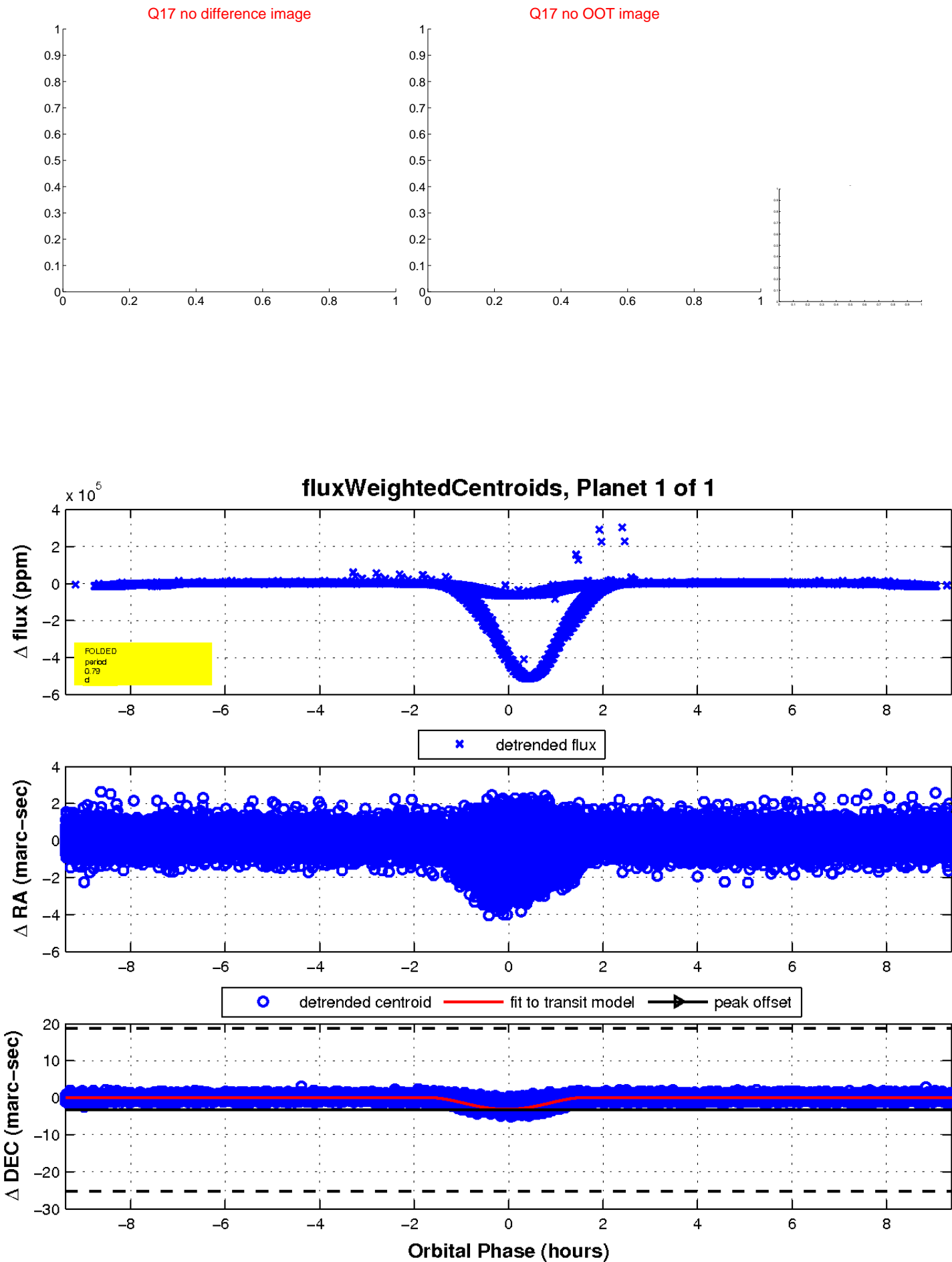
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination

