

KIC 011825057

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})
011825057-01	OBS	3857.01	0.532088	131.970369	519079.3	1.500	1011.1	-1.0	1.00	5780	46.50	6052.86

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011825057-01	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 011825057-01

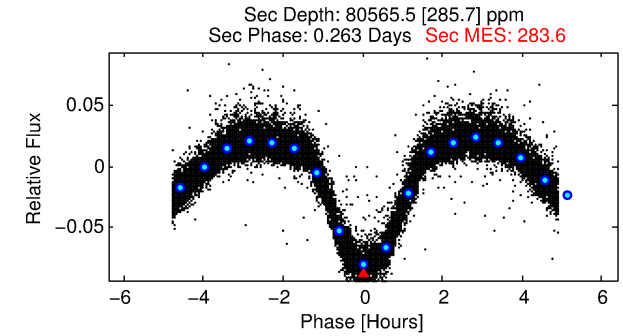
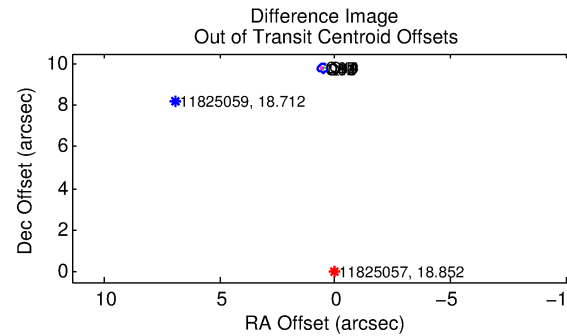
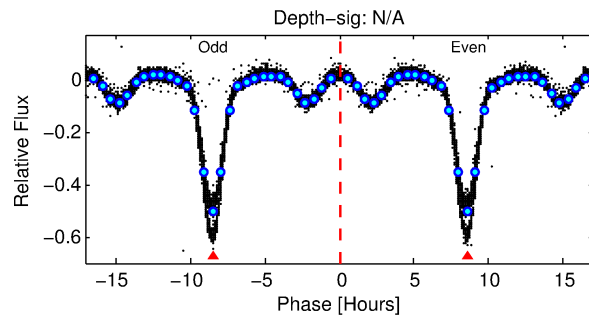
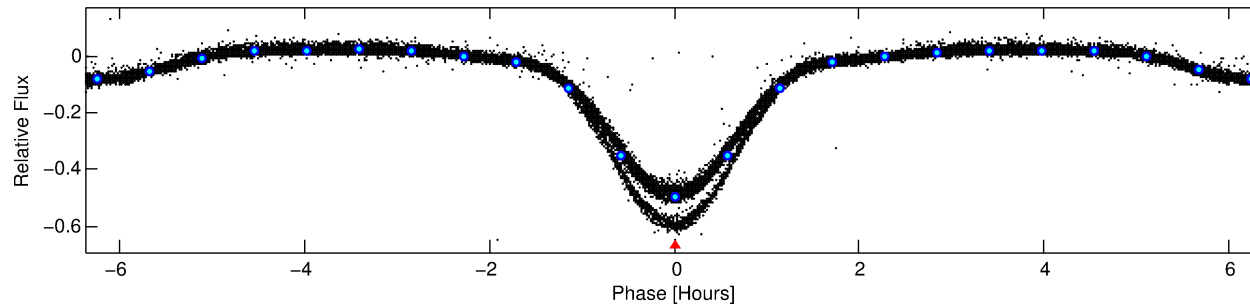
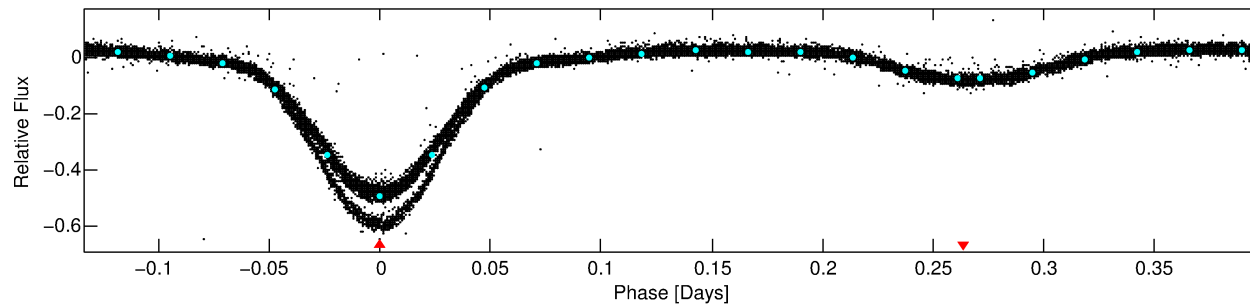
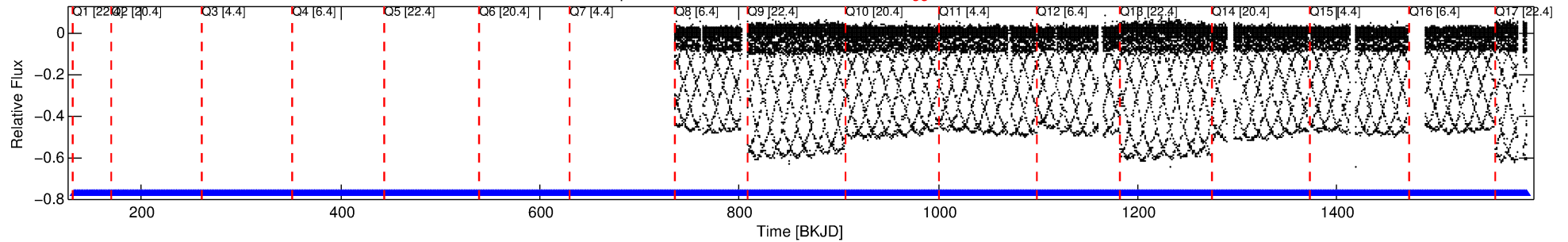
No Significant Match Found

DV One-Page Summary

KIC: 11825057 Candidate: 1 of 1 Period: 0.532 d

KOI: K03857 Corr: No Ephemeris Match

Kp: 18.85 R*: 1.00 Rs Teff: 5780.0 K Logg: 4.44 Fe/H: 0.000



TPS TCE Results:

Period = 0.53209 d
Epoch = 131.9704 BKJD

DV fit results are unavailable

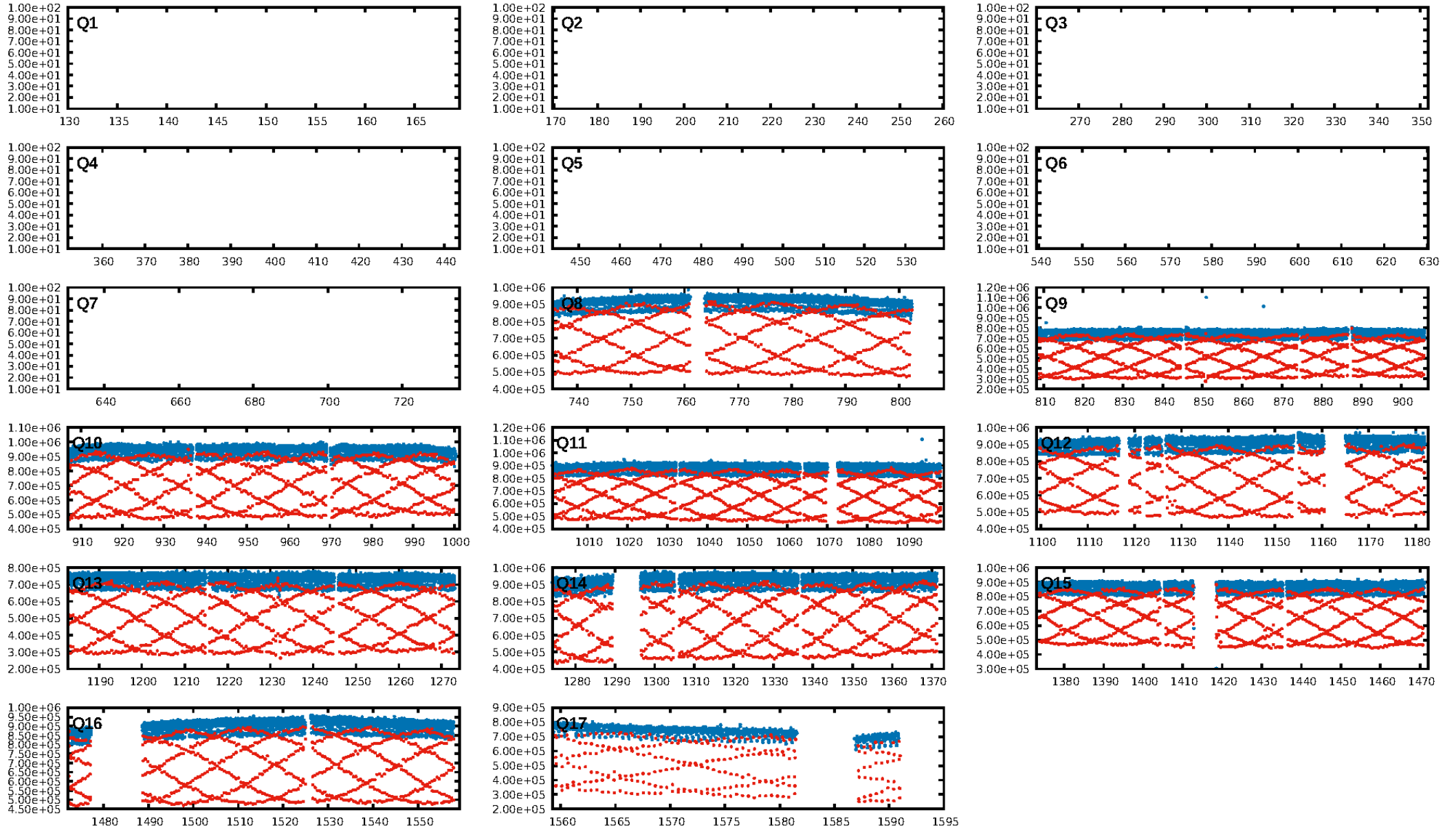
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1419/1419]
GhostDiagnostic-chr: 0.7309
Centroid-sig: 0.0%
Centroid-so: 2.711 arcsec [1336.53σ]
OotOffset-rm: 9.807 arcsec [145.04σ]
KicOffset-rm: 0.058 arcsec [0.79σ]
OotOffset-st: 2/2/3/3 [10]
KicOffset-st: 2/2/3/3 [10]
DiffImageQuality-fgm: 1.00 [10/10]
DiffImageOverlap-fno: 1.00 [10/10]

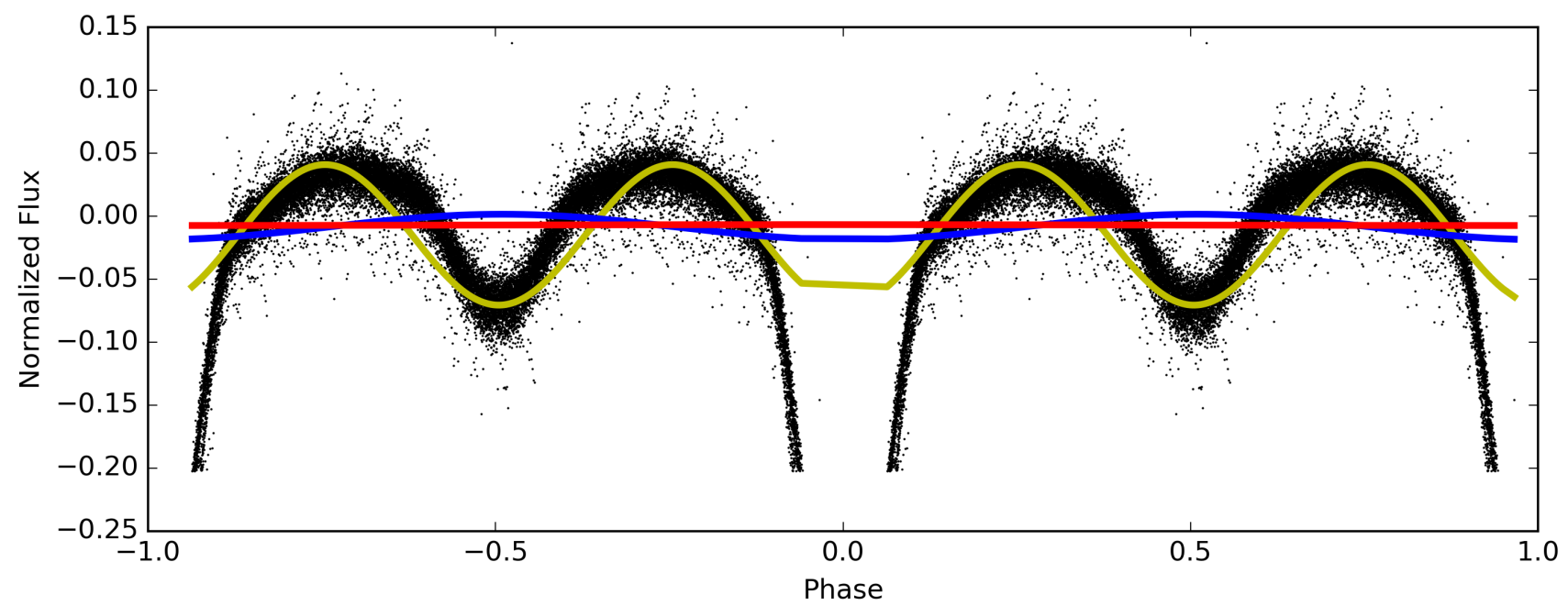
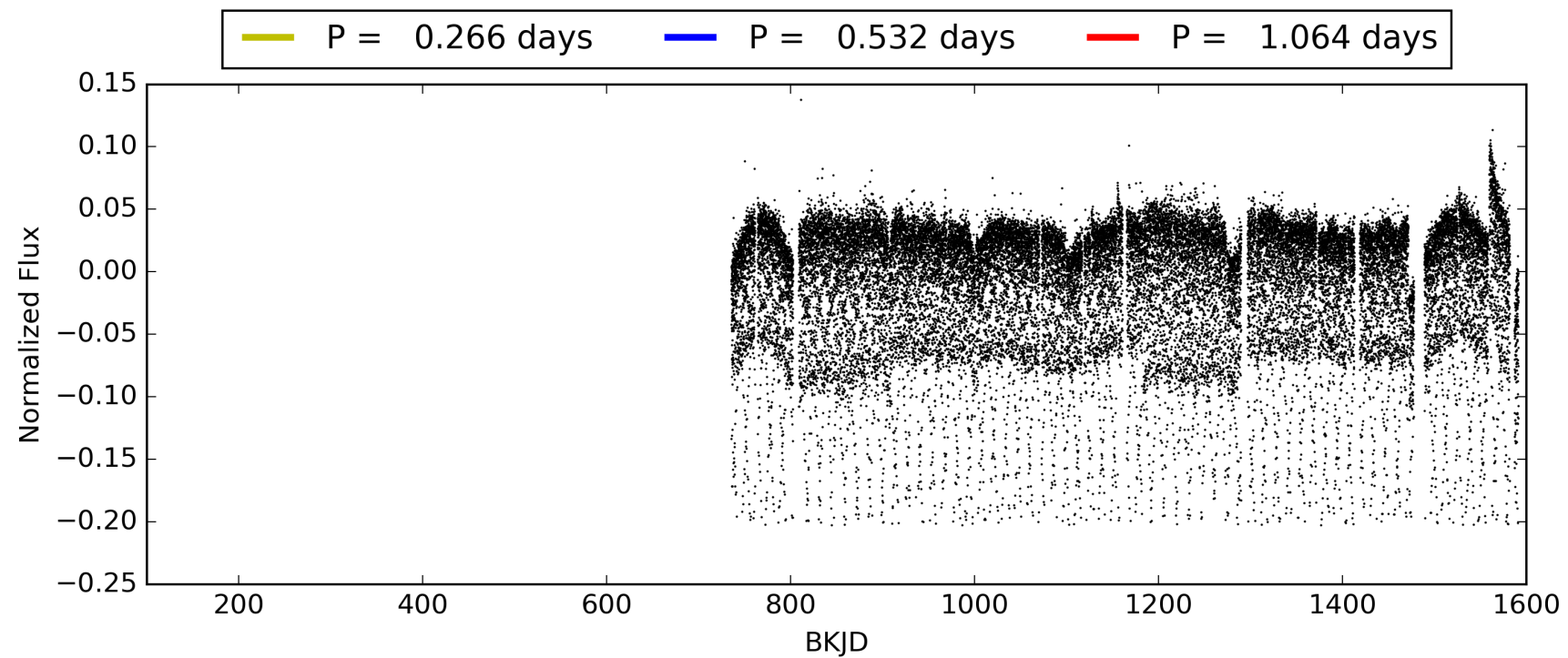
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 11:52:31 Z

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

TCE 011825057-01, PDC Light Curves

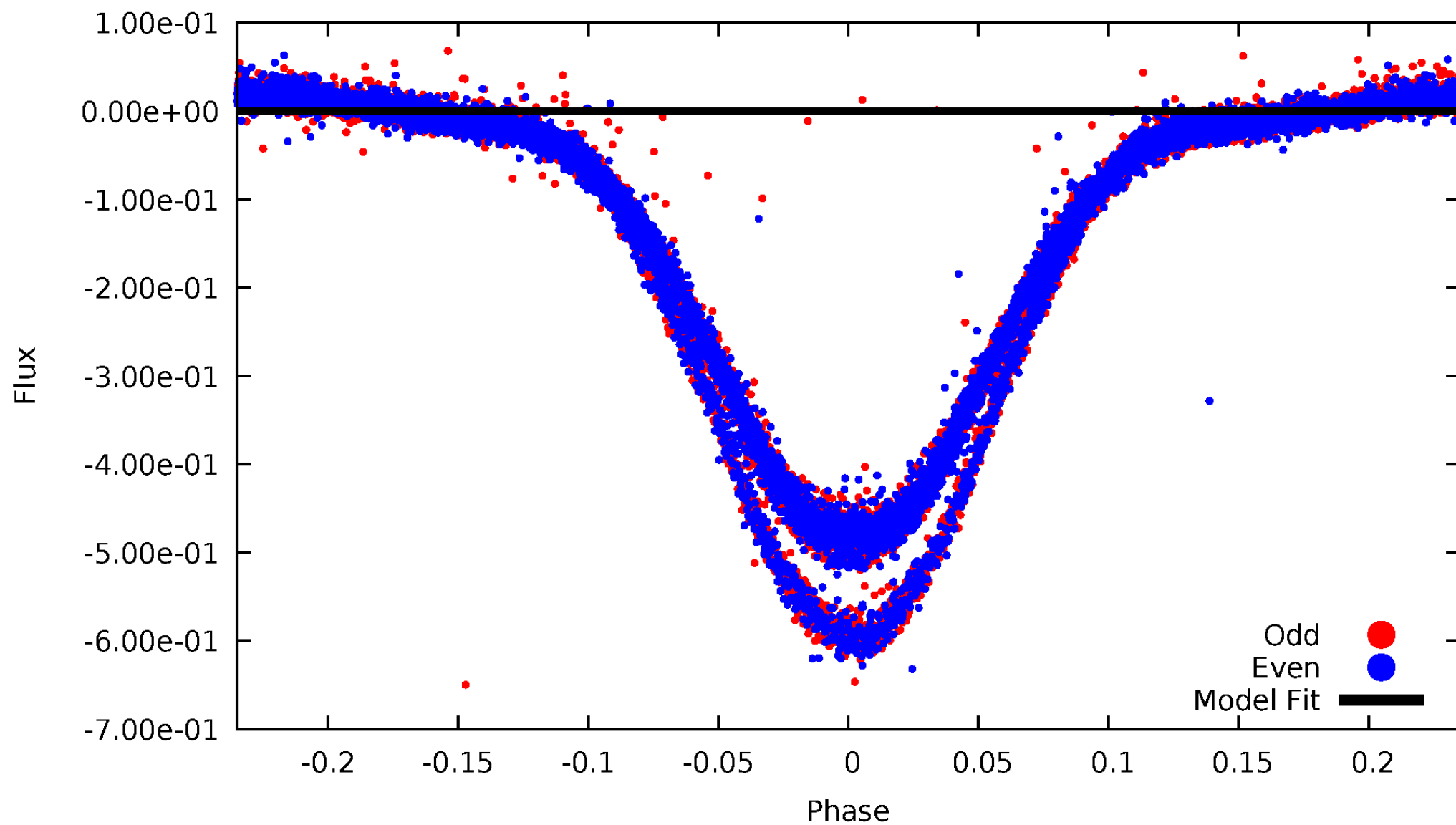


TCE 011825057-01



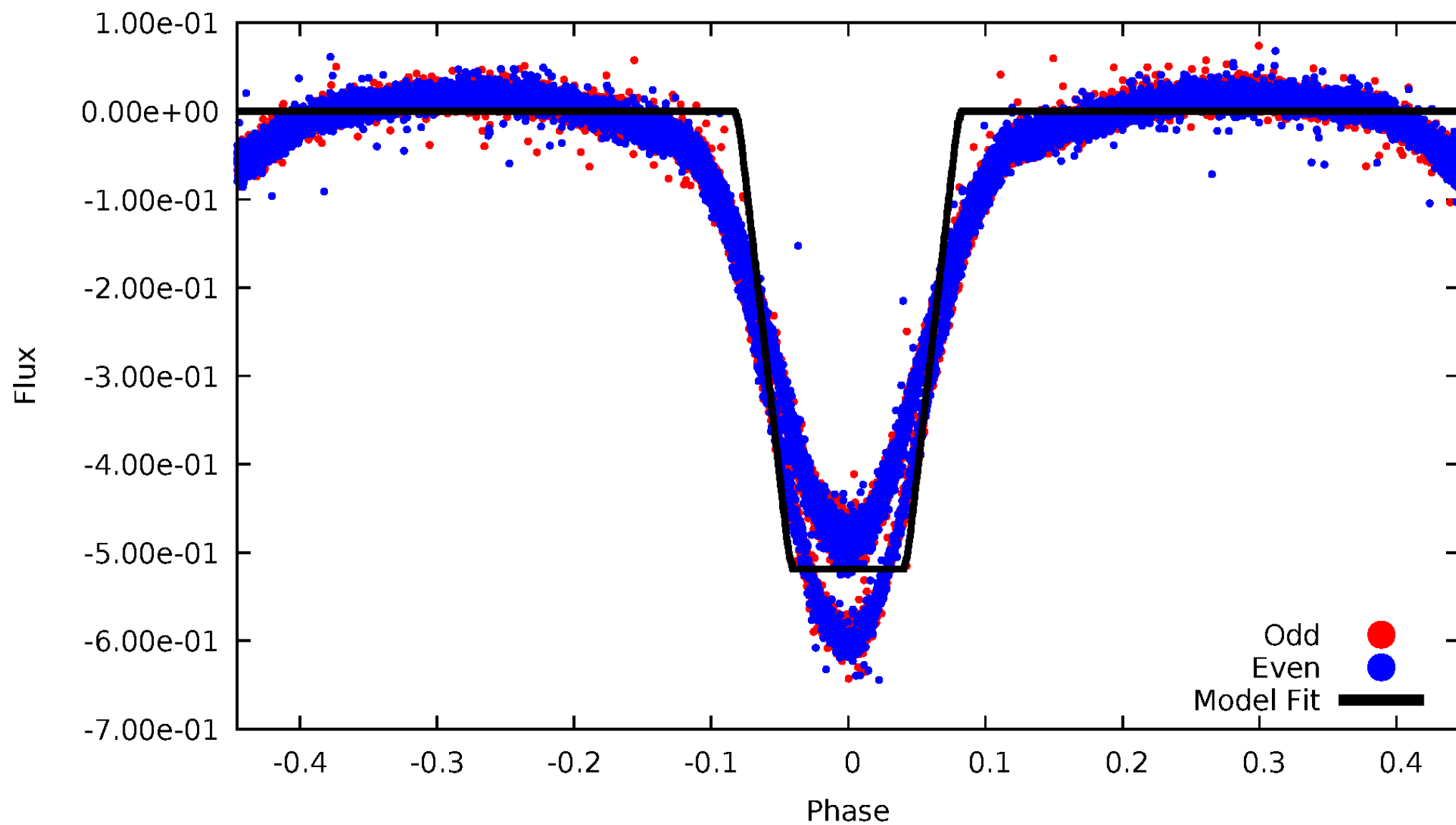
DV Odd/Even

TCE 011825057-01



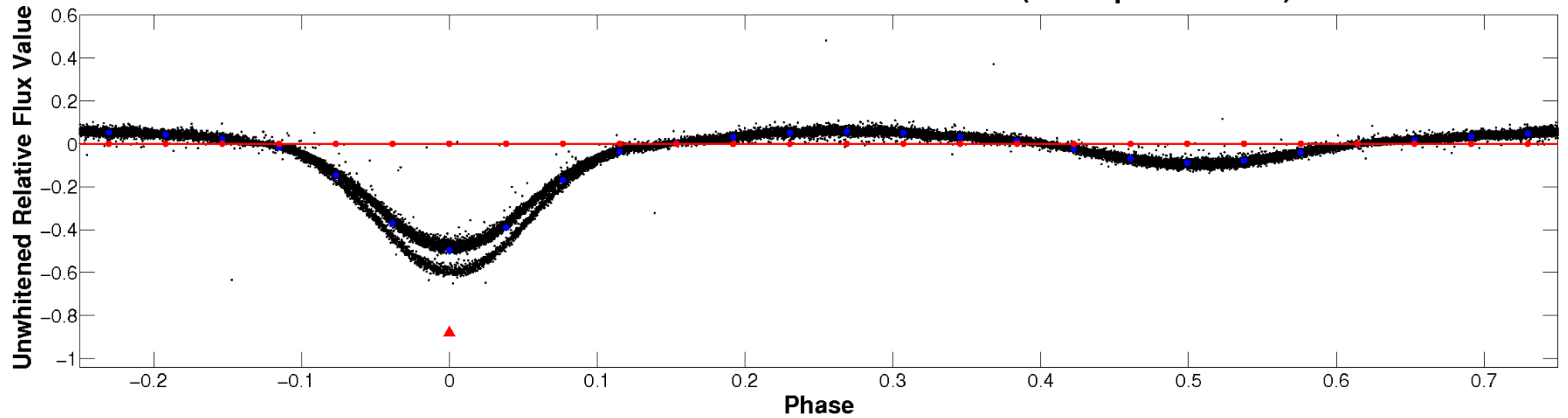
ALT Odd/Even

TCE 011825057-01



Non-Whitened Vs. Whitened Light Curve

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

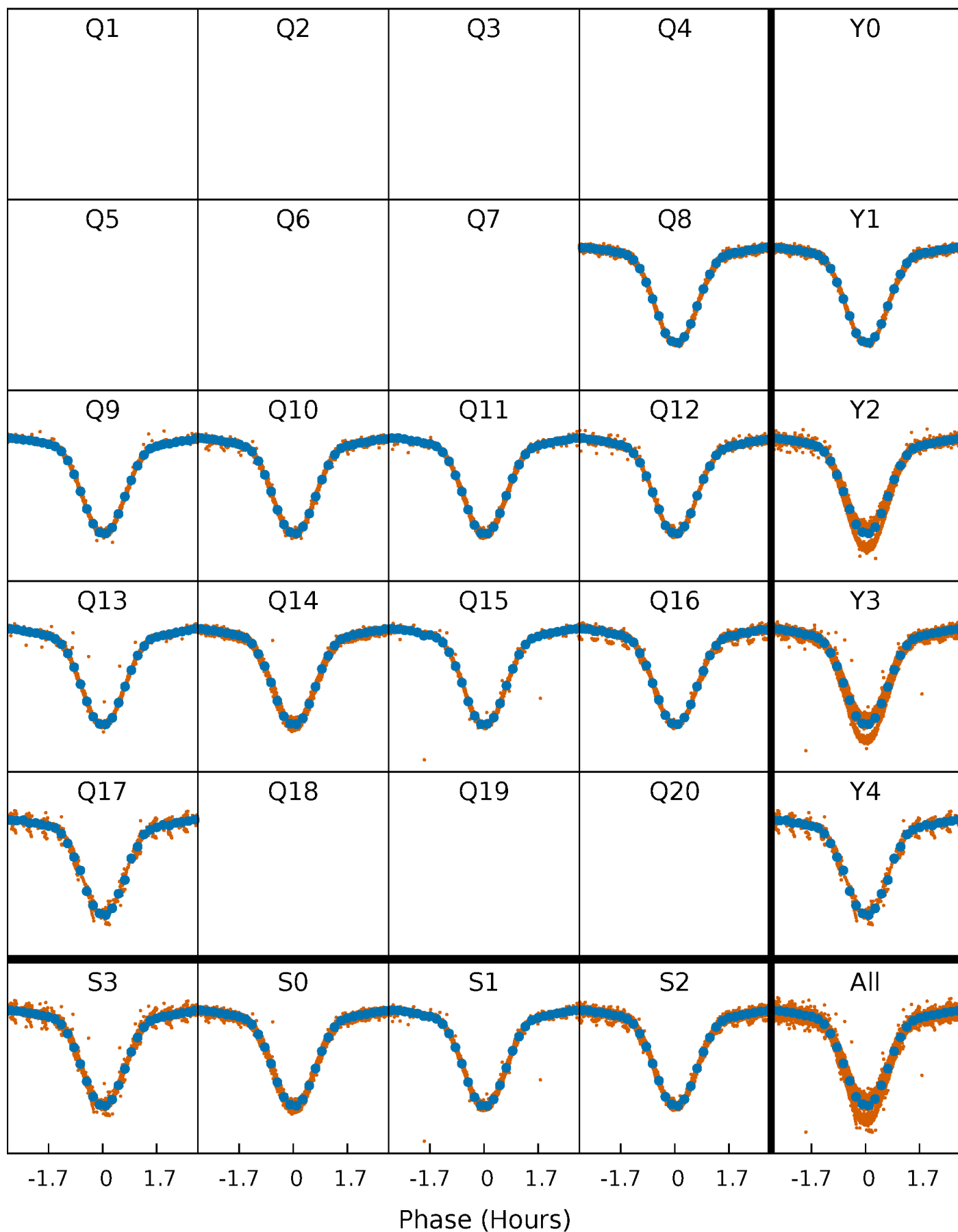


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



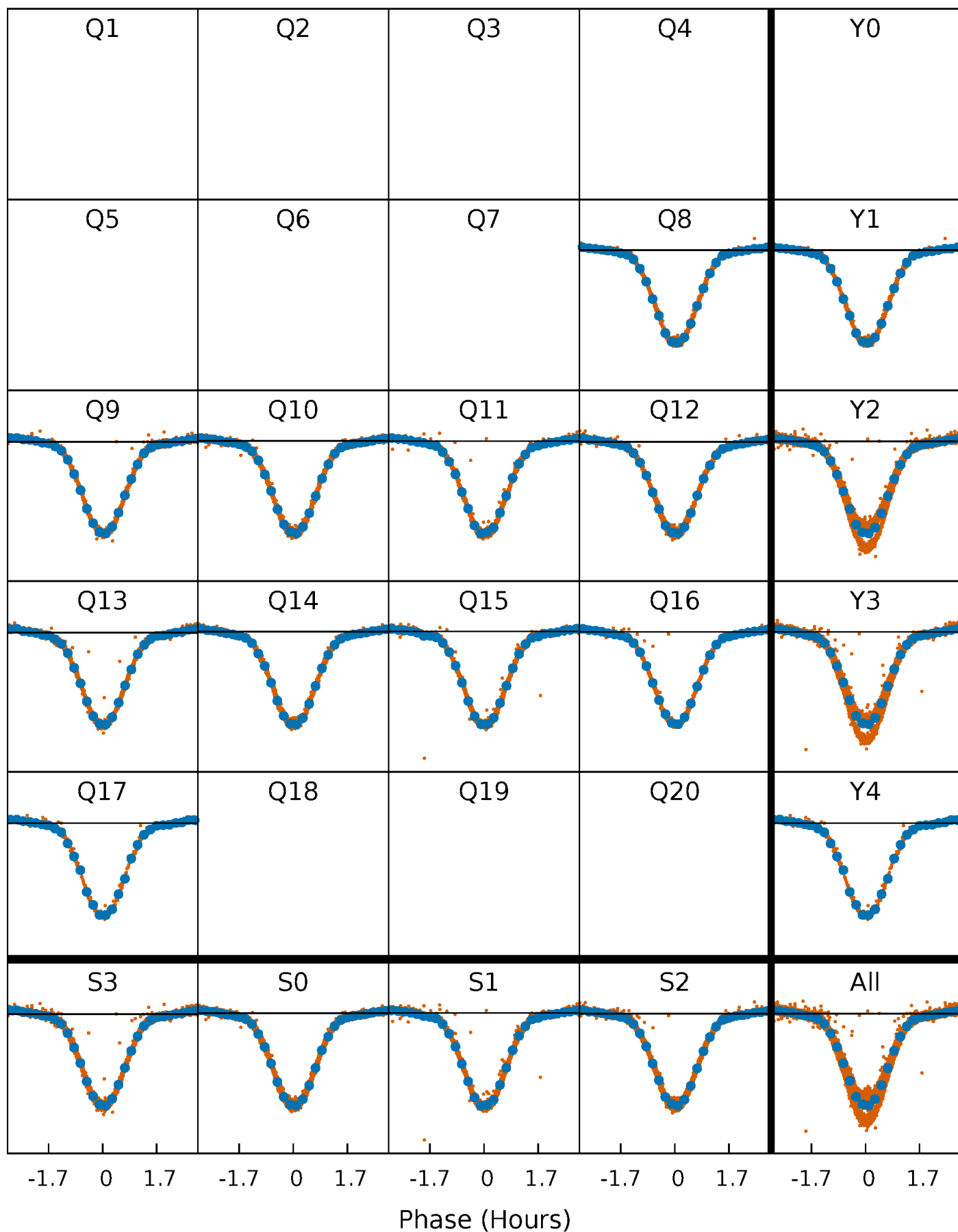
PDC Quarter-Phased Transit Curves

TCE 011825057-01 P= 0.532088 Days $T_0=131.970369$ (BKJD)



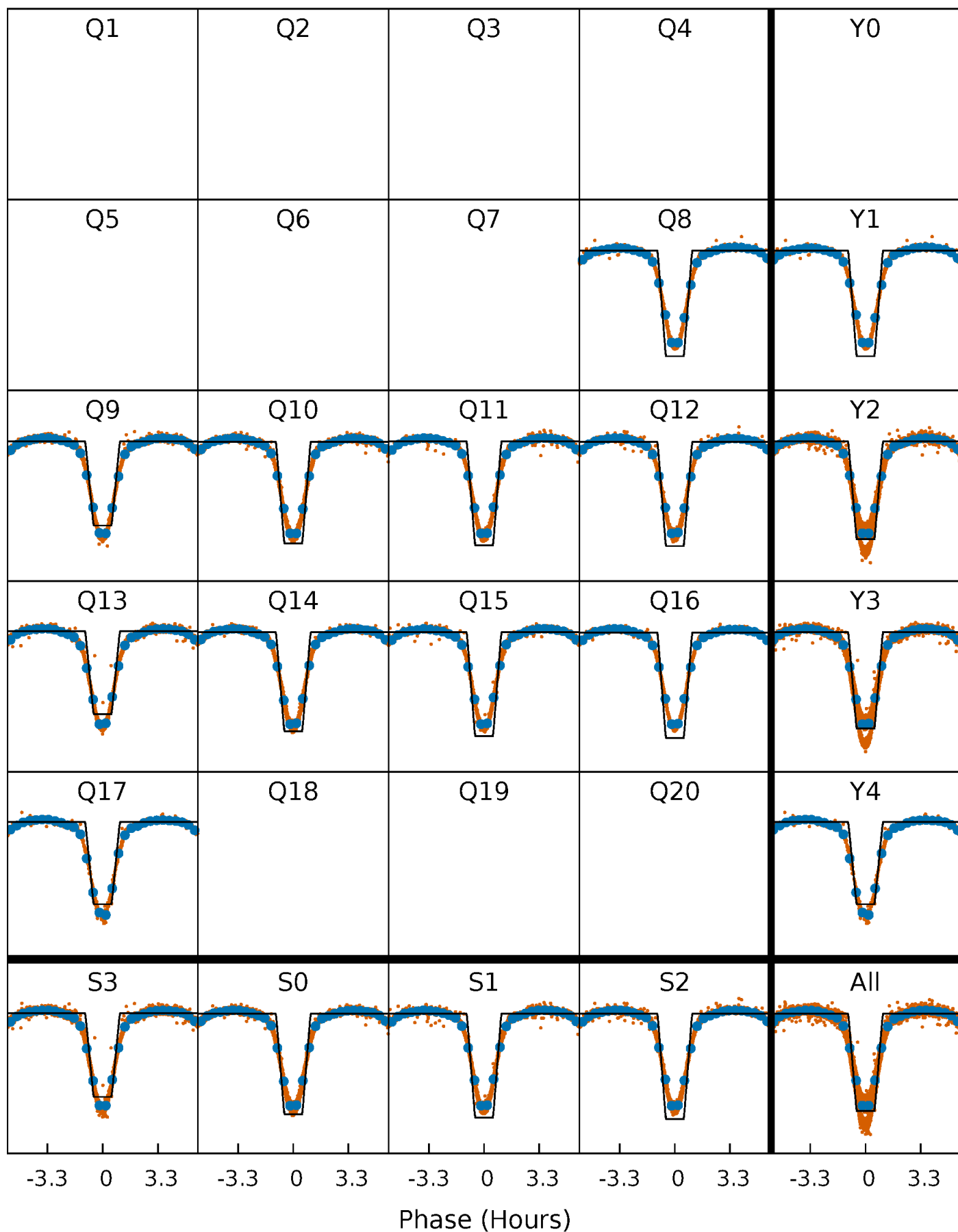
DV Quarter-Phased Transit Curves

TCE 011825057-01 P= 0.532088 Days $T_0=131.970369$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

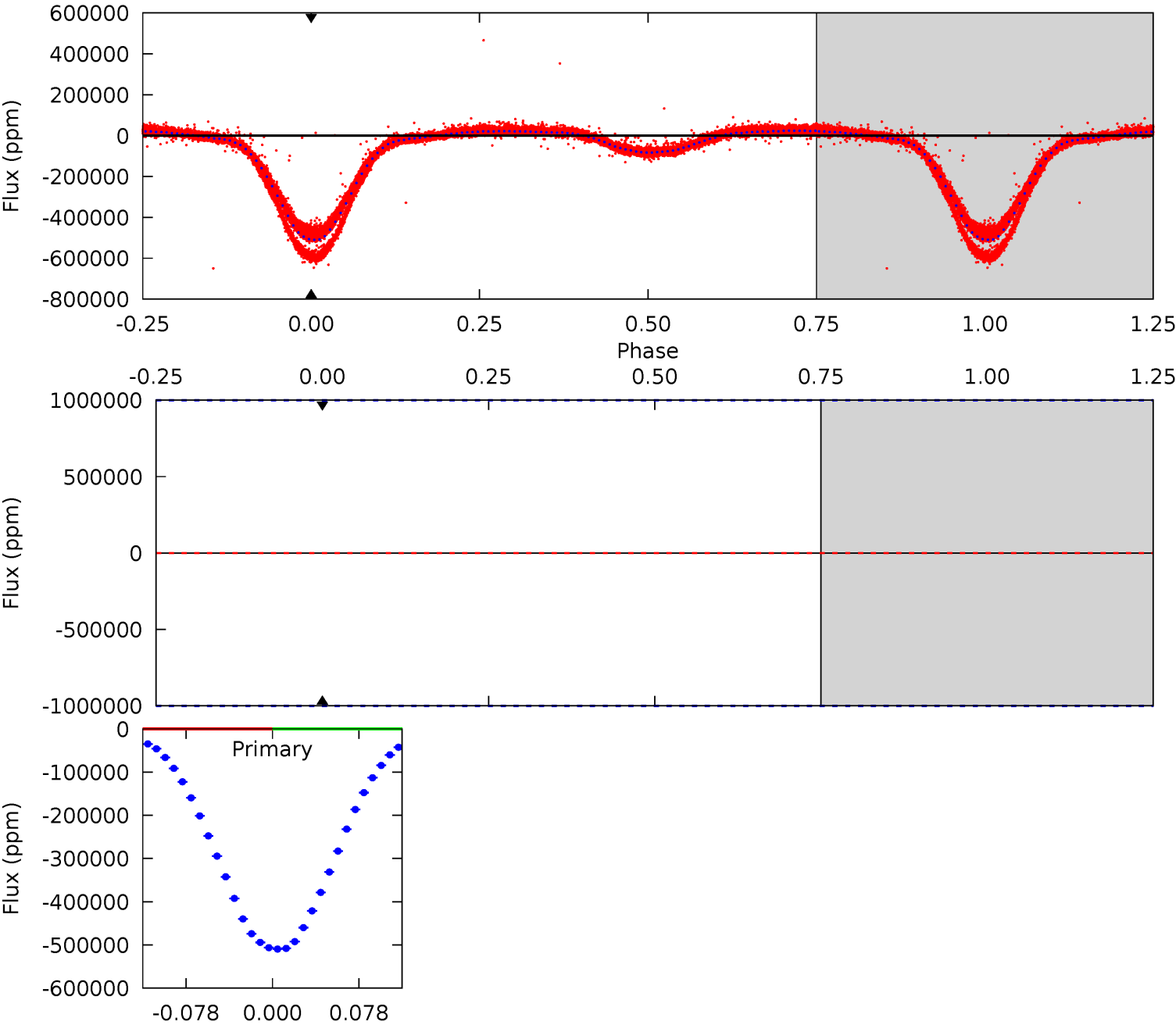
TCE 011825057-01 P= 0.532088 Days $T_0=131.971551$ (BKJD)



DV Model-Shift Uniqueness Test

011825057-01, P = 0.532088 Days, E = 131.970369 Days

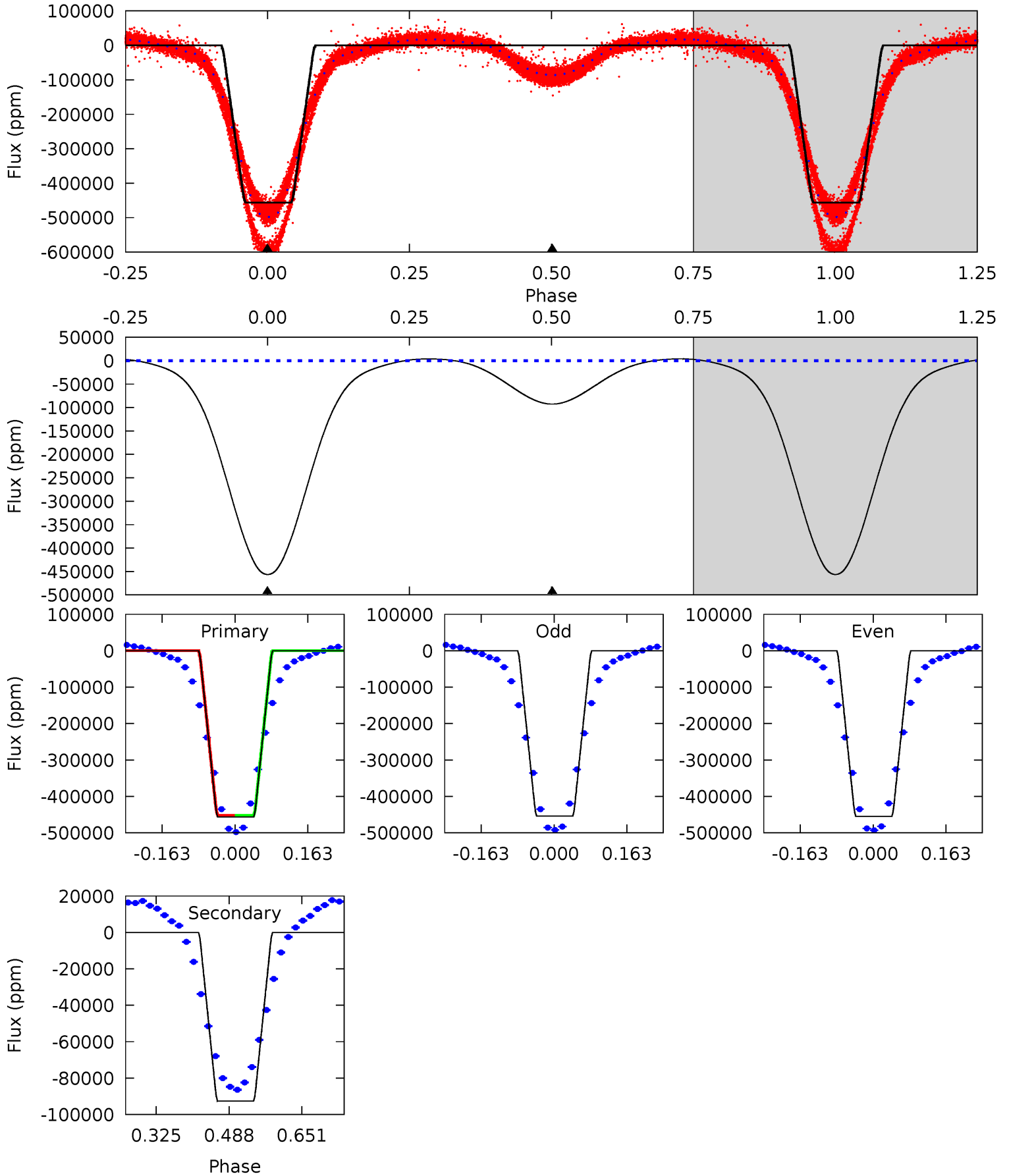
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011825057-01, P = 0.532088 Days, E = 131.971551 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2374	481.7	0	0	4.46	1.40	45.8	2374	2374	481.7	481.7	1.64	1.05	0.01	0.54



Stellar Parameters For KIC 011825057

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5780^{+1}_{-1}	$4.438^{+1.000}_{-1.000}$	$0.000^{+1.000}_{-1.000}$	$1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$	$-1.000^{+1.000}_{-1.000}$
	+0%/-0%	+23%/-23%	+inf%/-inf%	+100%/-100%	+100%/-100%	+100%/-100%
Source	Solar	Solar	Solar	Solar		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 011825057-01 / KOI 3857.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$46.32^{+10.76}_{-10.96}$	3147^{+147}_{-155}	-3054^{+8303}_{-1993}	$0.068^{+5.242}_{-4.004}$
Alt.	-92605 ± 192	$79.10^{+11.63}_{-12.14}$	3143^{+158}_{-141}	3958^{+301}_{-241}	$1.494^{+0.572}_{-0.370}$

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 $A_{obs} \gg 1.0$

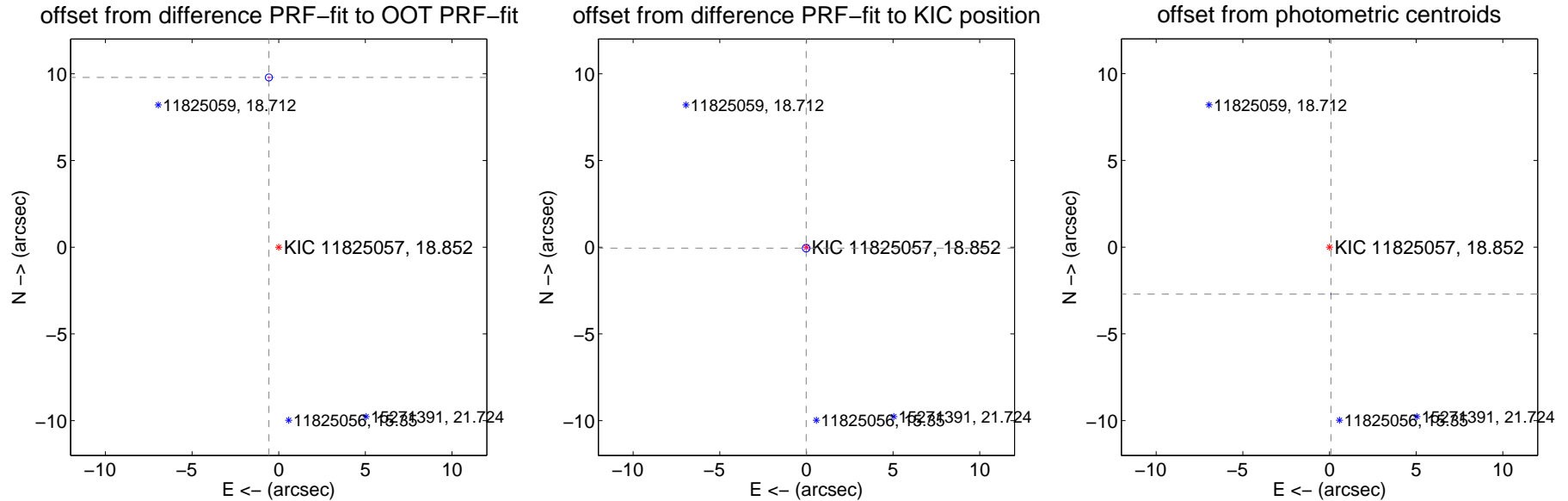
DV Centroid Data

Supplemental centroid analysis for 011825057-01. Kepler magnitude: 18.85. Transit SNR -1.00

There are 10 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 9.91 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	9.807 ± 0.068	145.04	0.567 ± 0.067	9.791 ± 0.068
PRF-fit source offset from KIC position	0.058 ± 0.073	0.79	0.017 ± 0.067	-0.055 ± 0.074
photometric centroid source offset	2.71 ± 0.00	1336.53	-0.08 ± 0.00	-2.71 ± 0.00

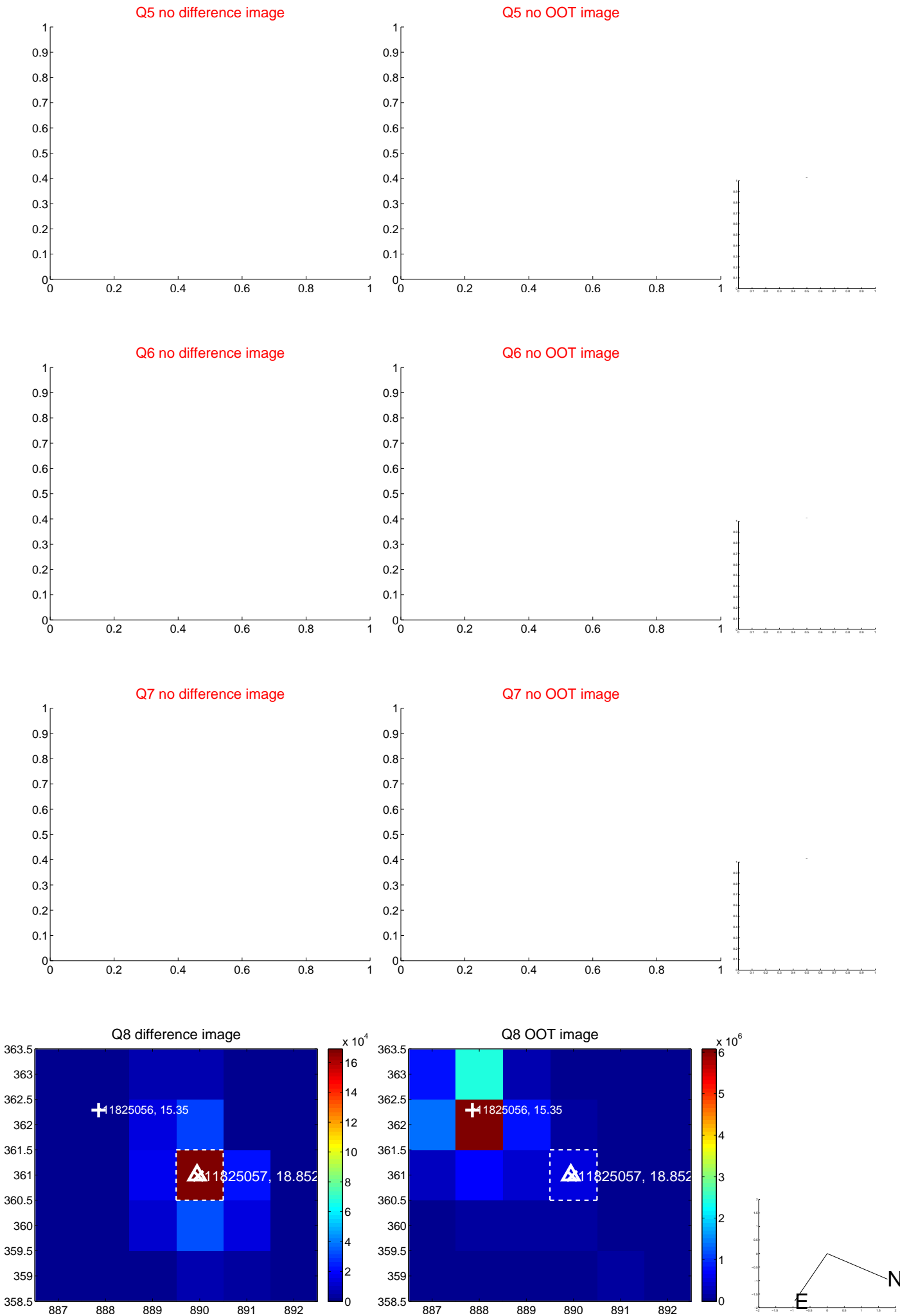


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

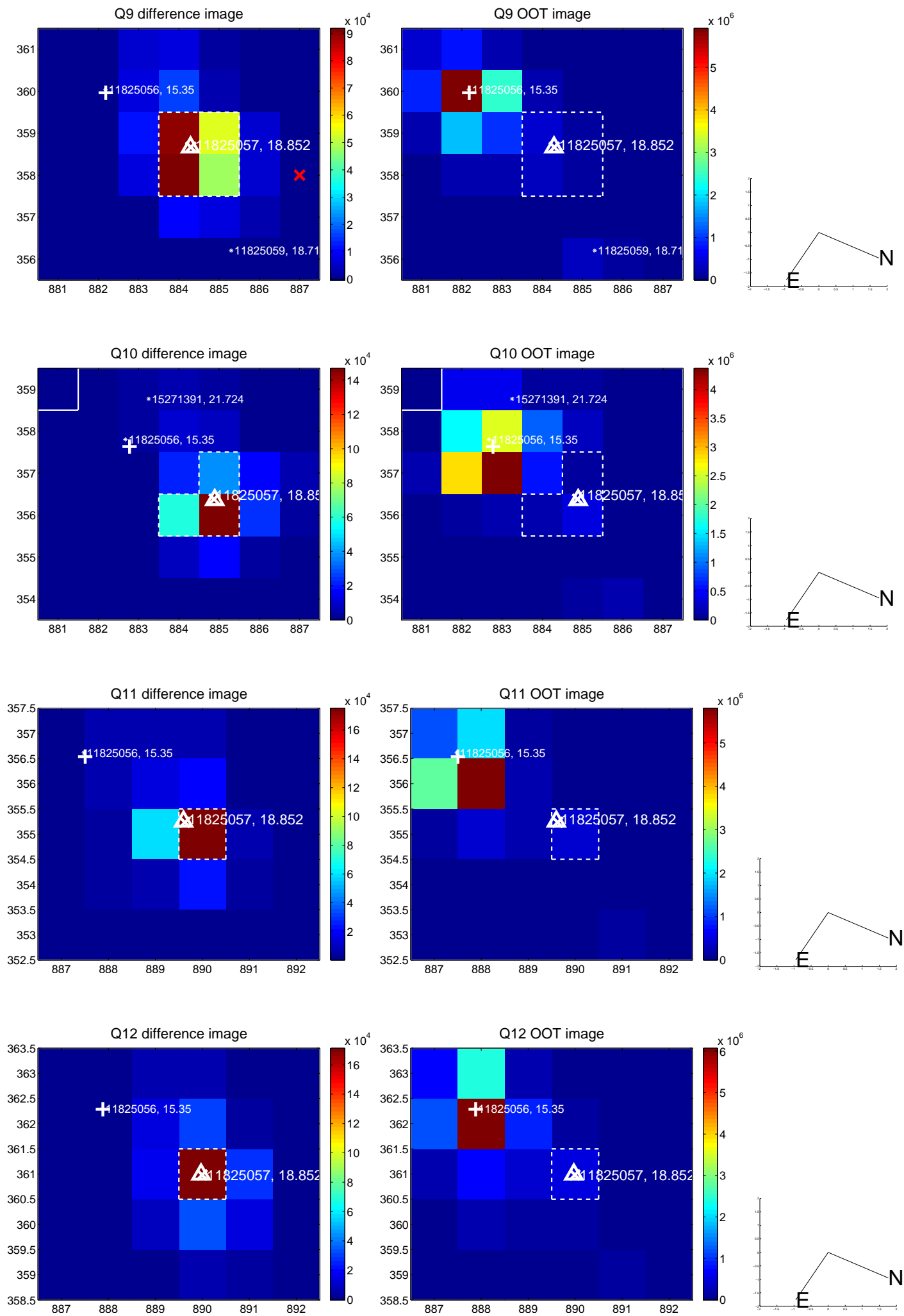
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



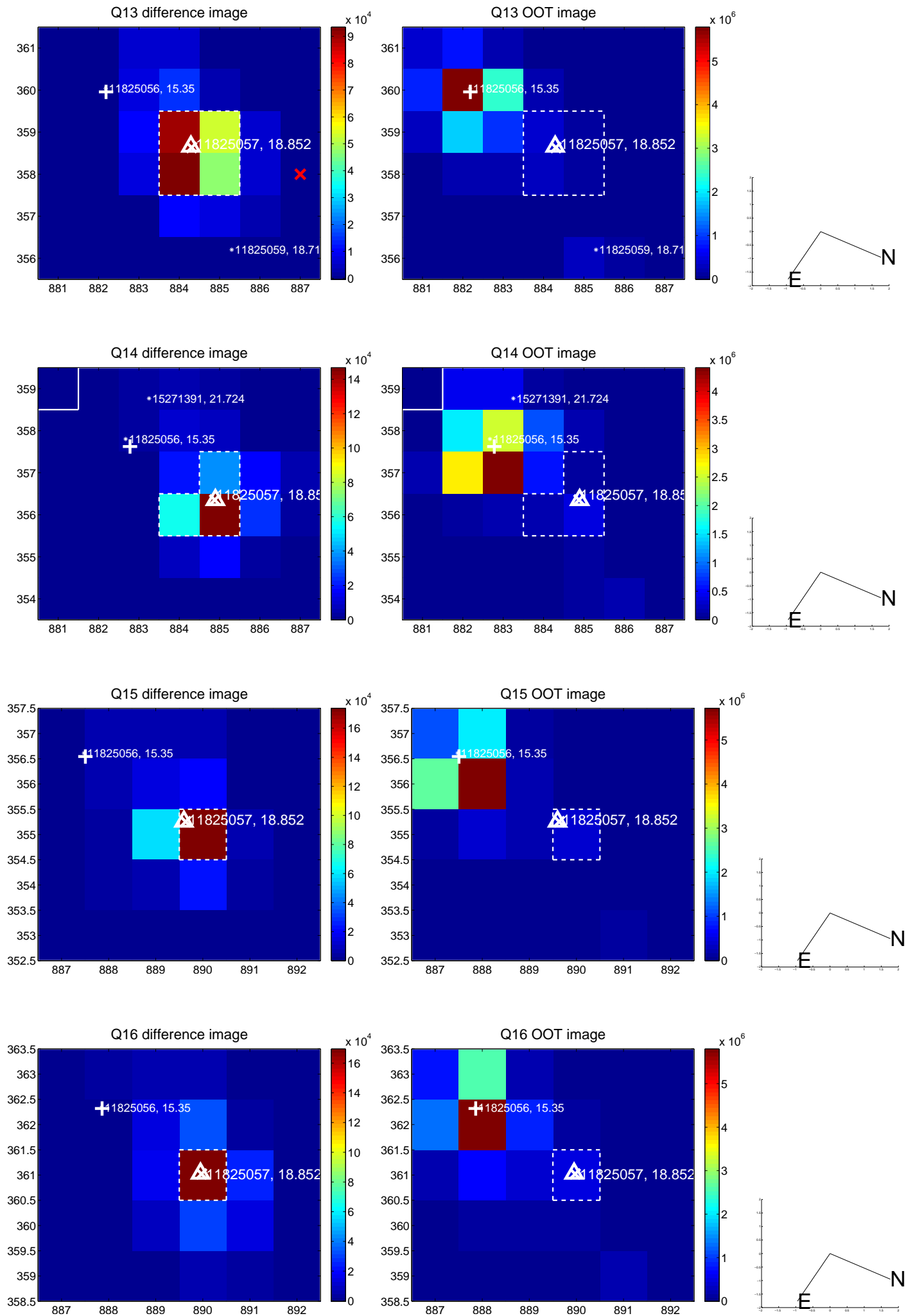
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



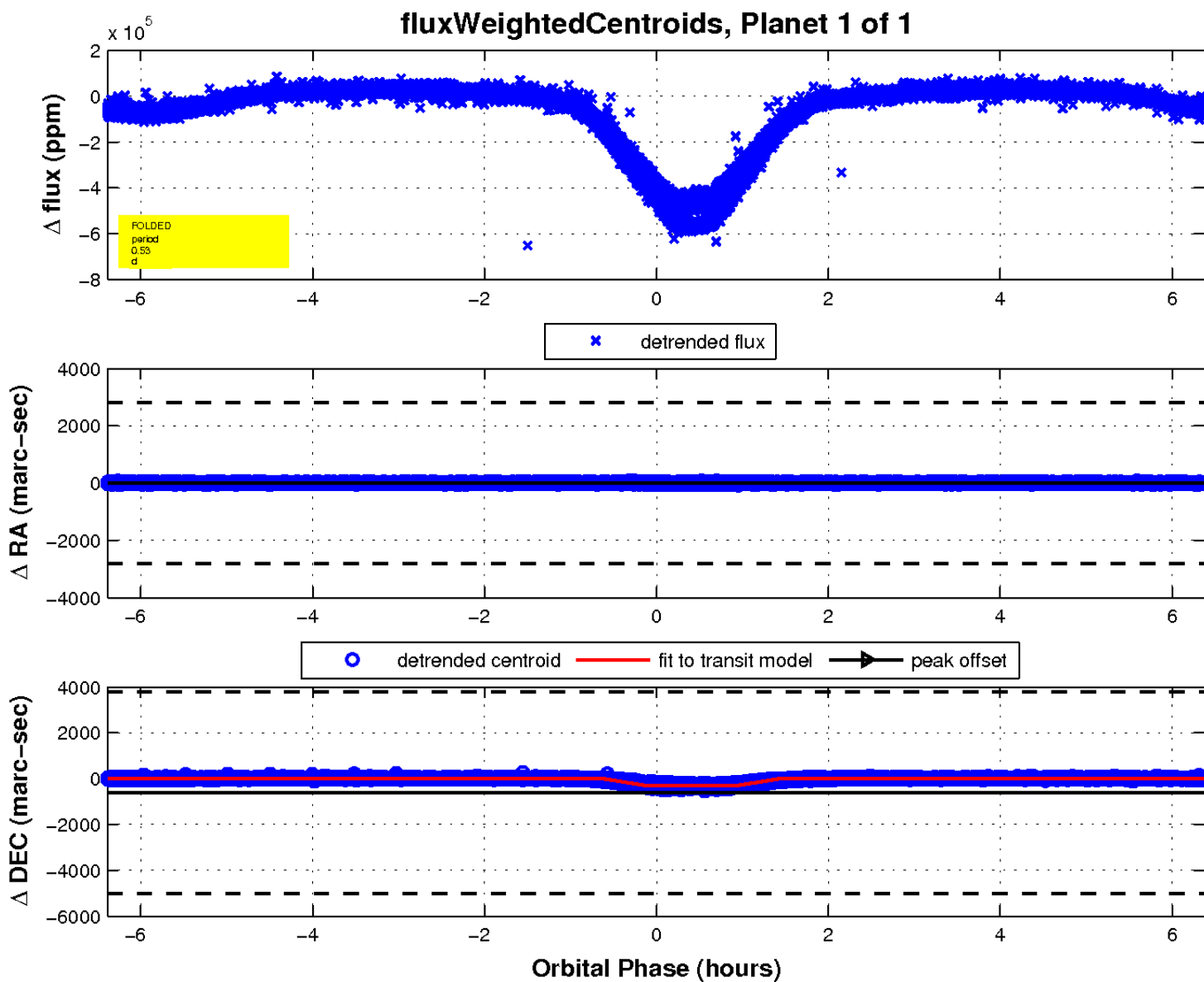
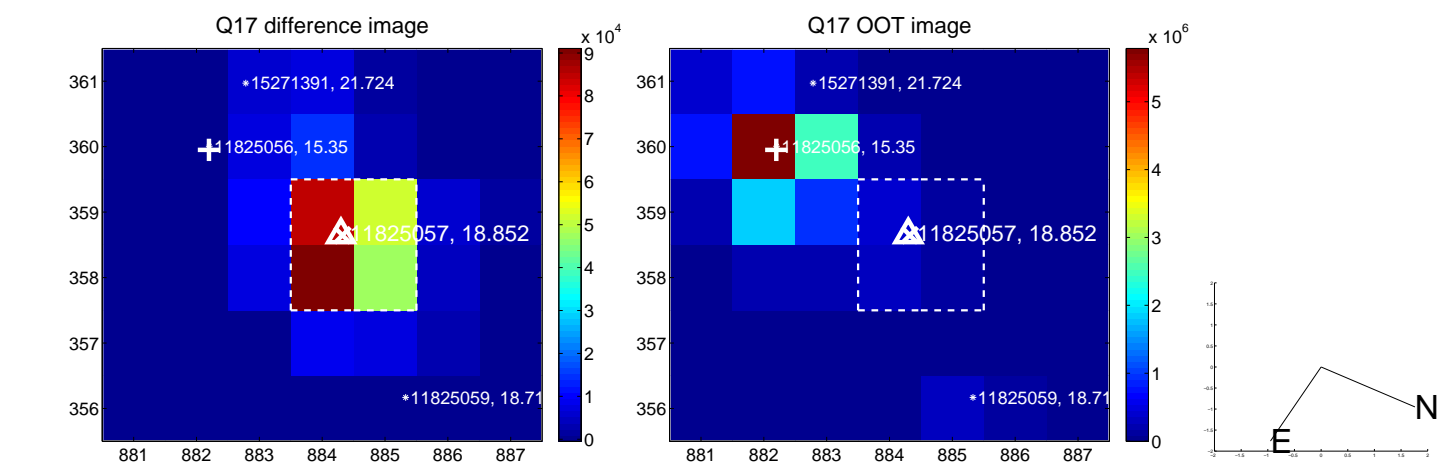
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination

