

KIC 009692336

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})
009692336-01	OBS	3859.01	0.687905	131.584110	234468.3	2.000	1777.0	-1.0	1.00	5780	48.84	4297.69

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
009692336-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—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.

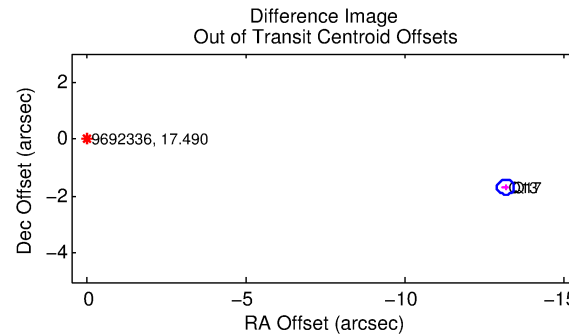
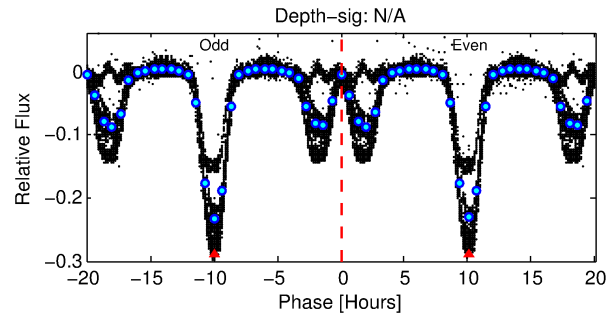
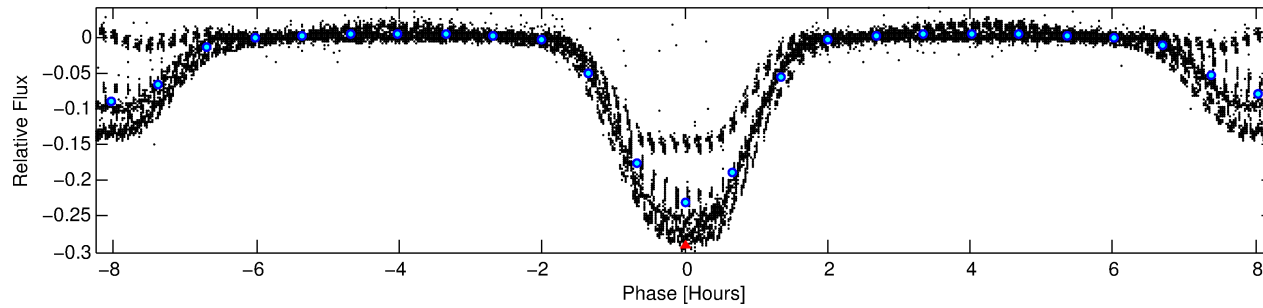
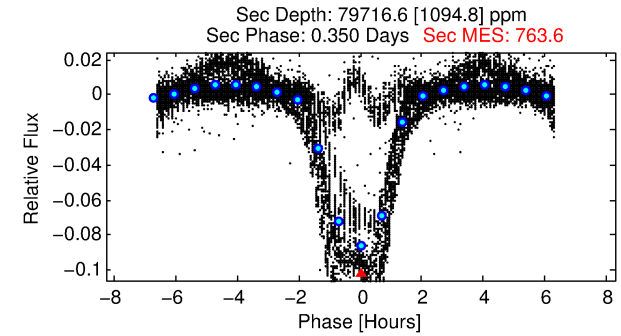
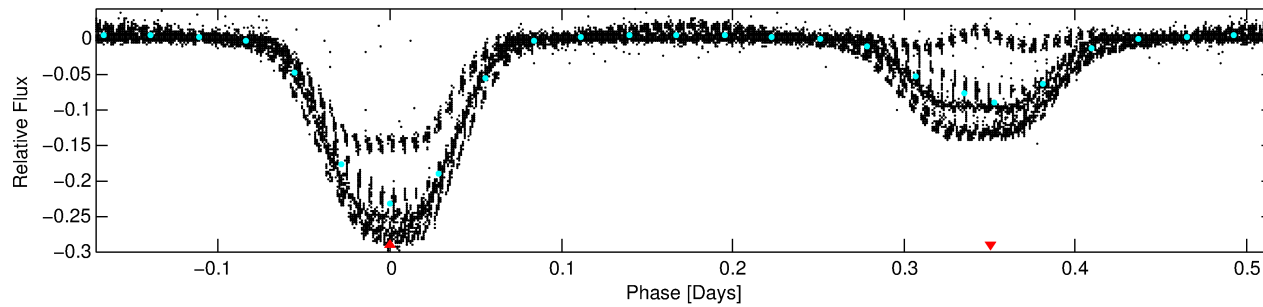
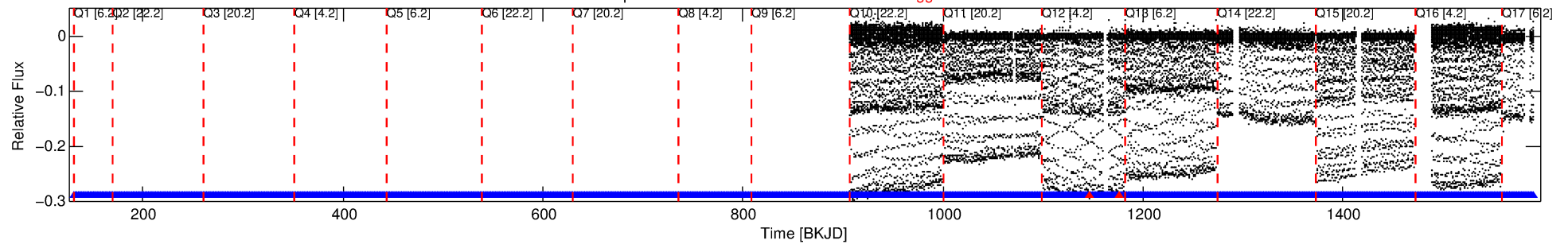
Ephemeris Match Information For 009692336-01

No Significant Match Found

DV One-Page Summary

KIC: 9692336 Candidate: 1 of 1 Period: 0.688 d
KOI: K03859 Corr: No Ephemeris Match

Kp: 17.49 R*: 1.00 Rs Teff: 5780.0 K Logg: 4.44 Fe/H: 0.000



TPS TCE Results:

Period = 0.68790 d
Epoch = 131.5841 BKJD

DV fit results are unavailable

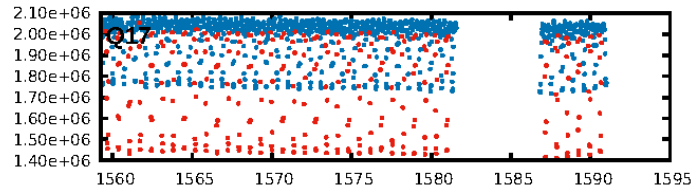
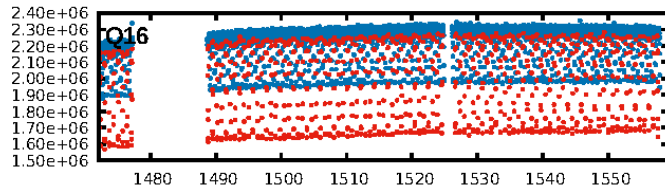
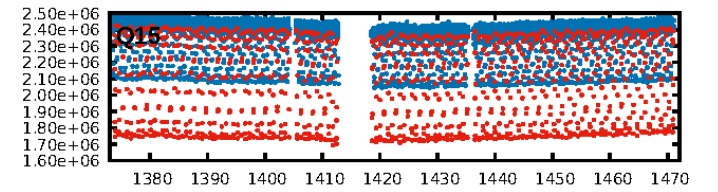
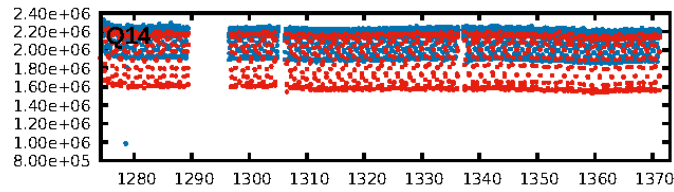
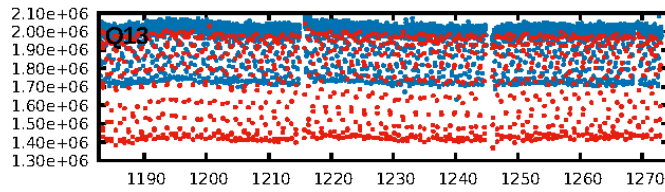
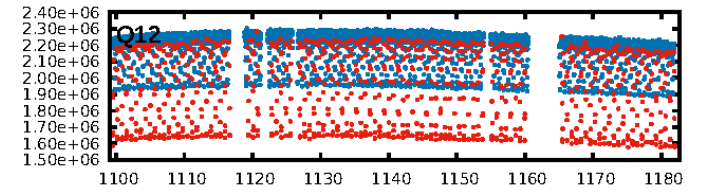
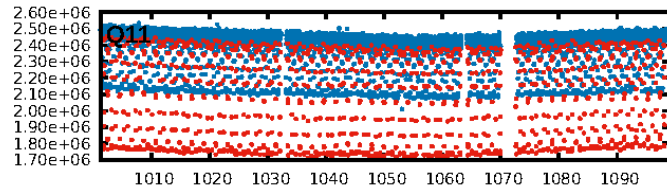
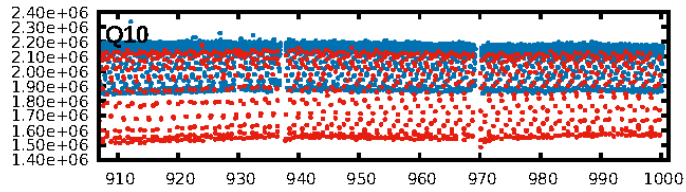
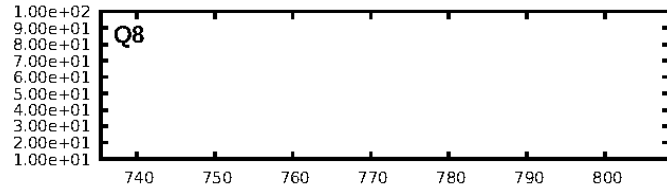
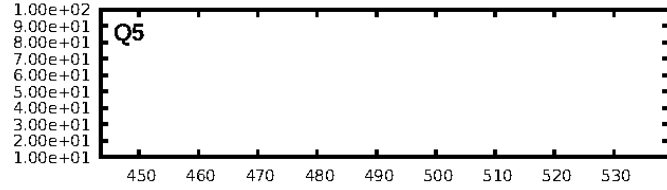
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [866/868]
GhostDiagnostic-chr: 1.314
Centroid-sig: N/A
Centroid-so: 0.812 arcsec [160.84σ]
OotOffset-rm: 13.254 arcsec [152.51σ]
KicOffset-rm: 0.451 arcsec [5.99σ]
OotOffset-st: 0/0/0/2 [2]
KicOffset-st: 2/2/2/2 [8]
DiffImageQuality-fgm: 1.00 [8/8]
DiffImageOverlap-fno: 1.00 [8/8]

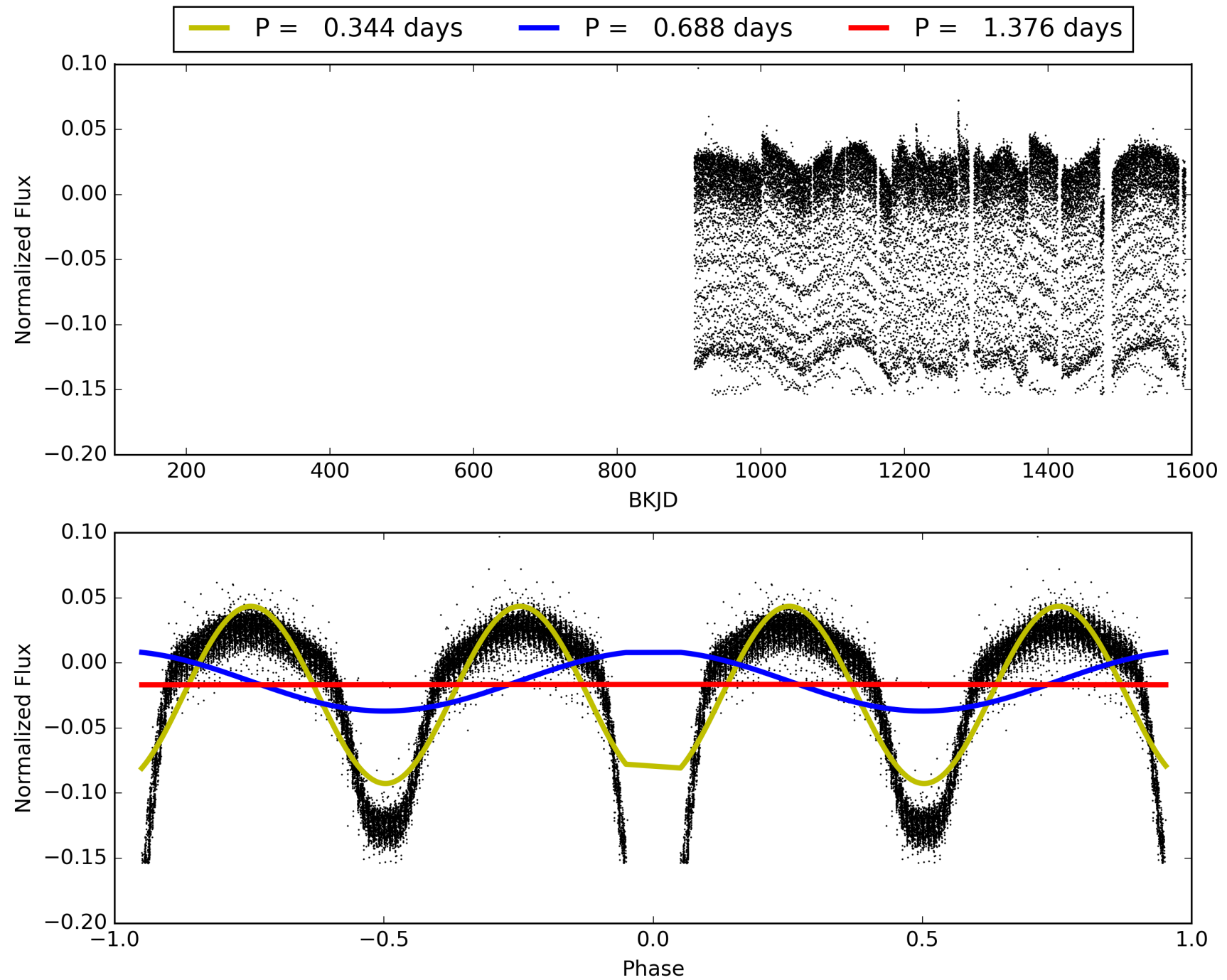
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:11:51 Z

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

TCE 009692336-01, PDC Light Curves

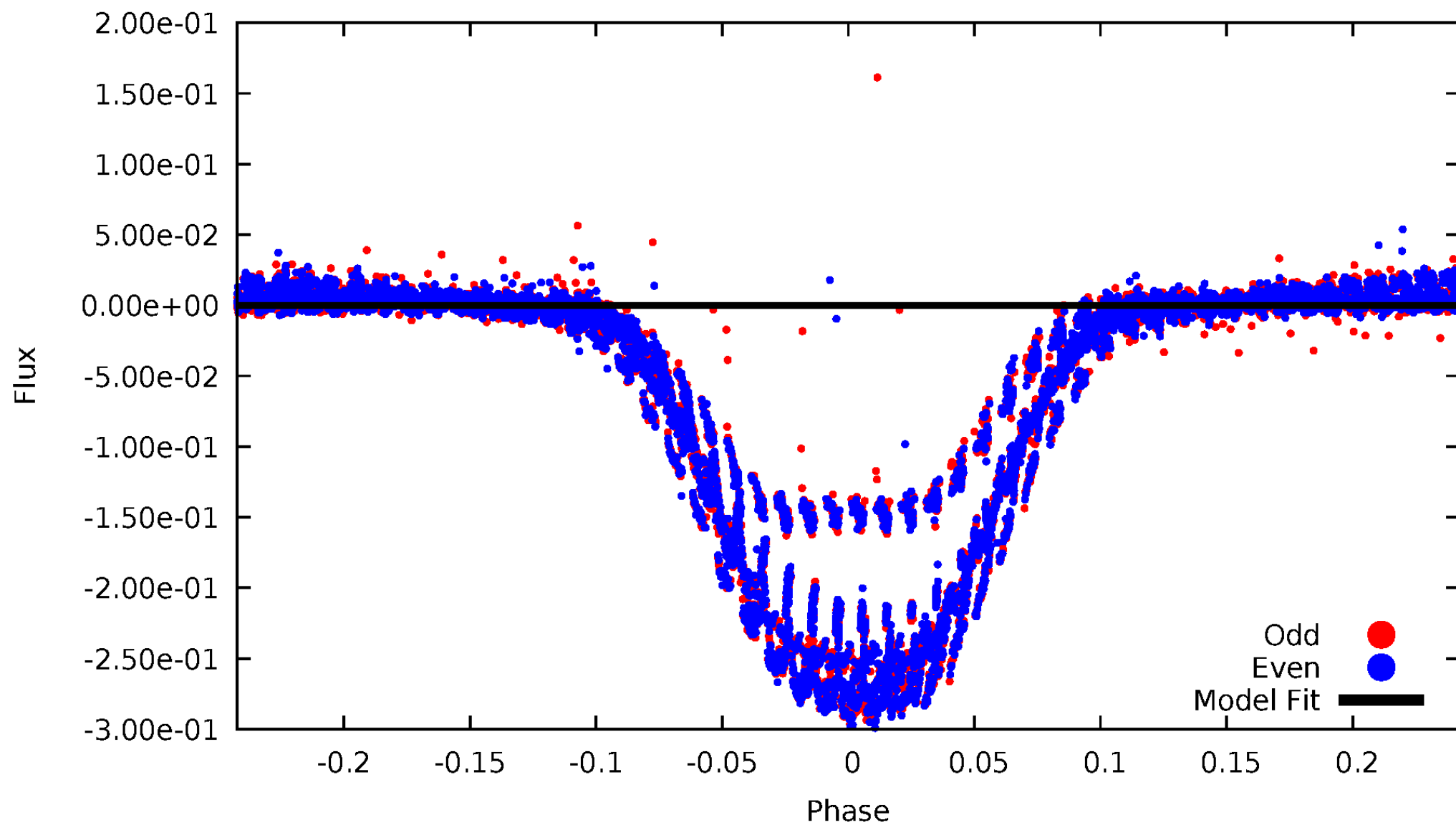


TCE 009692336-01



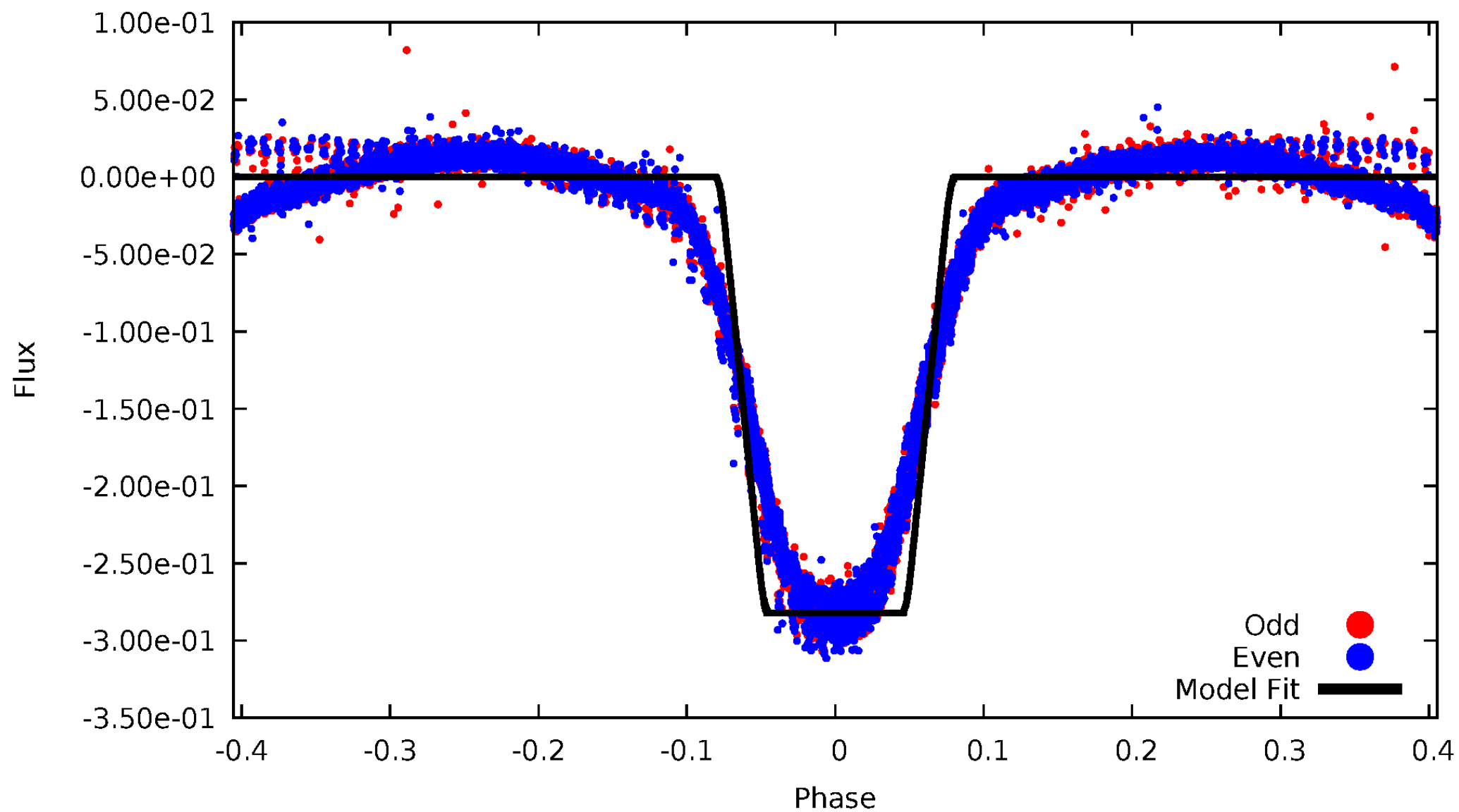
DV Odd/Even

TCE 009692336-01



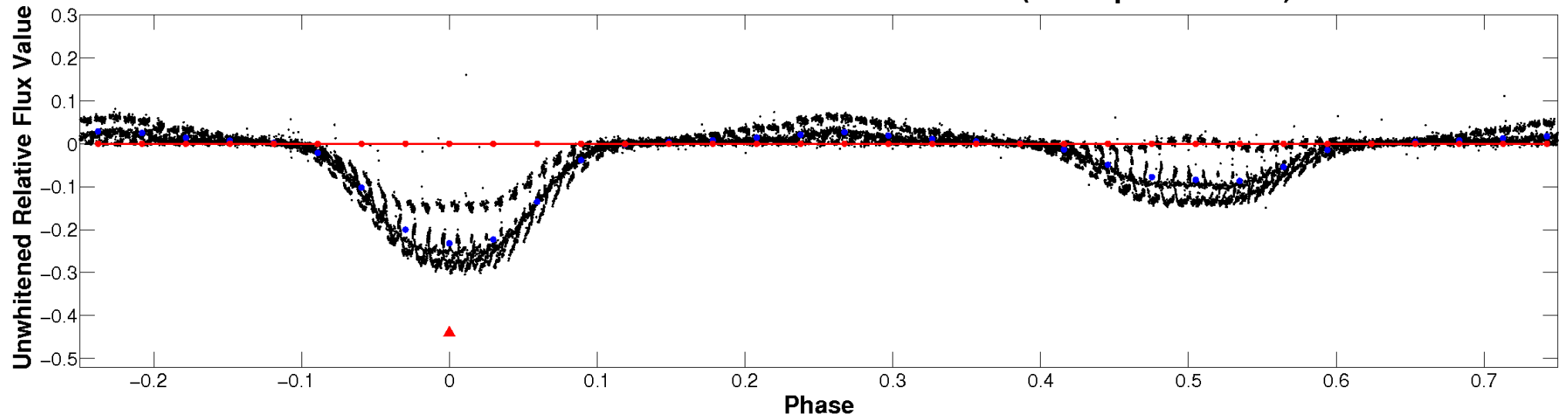
ALT Odd/Even

TCE 009692336-01



Non-Whitened Vs. Whitened Light Curve

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

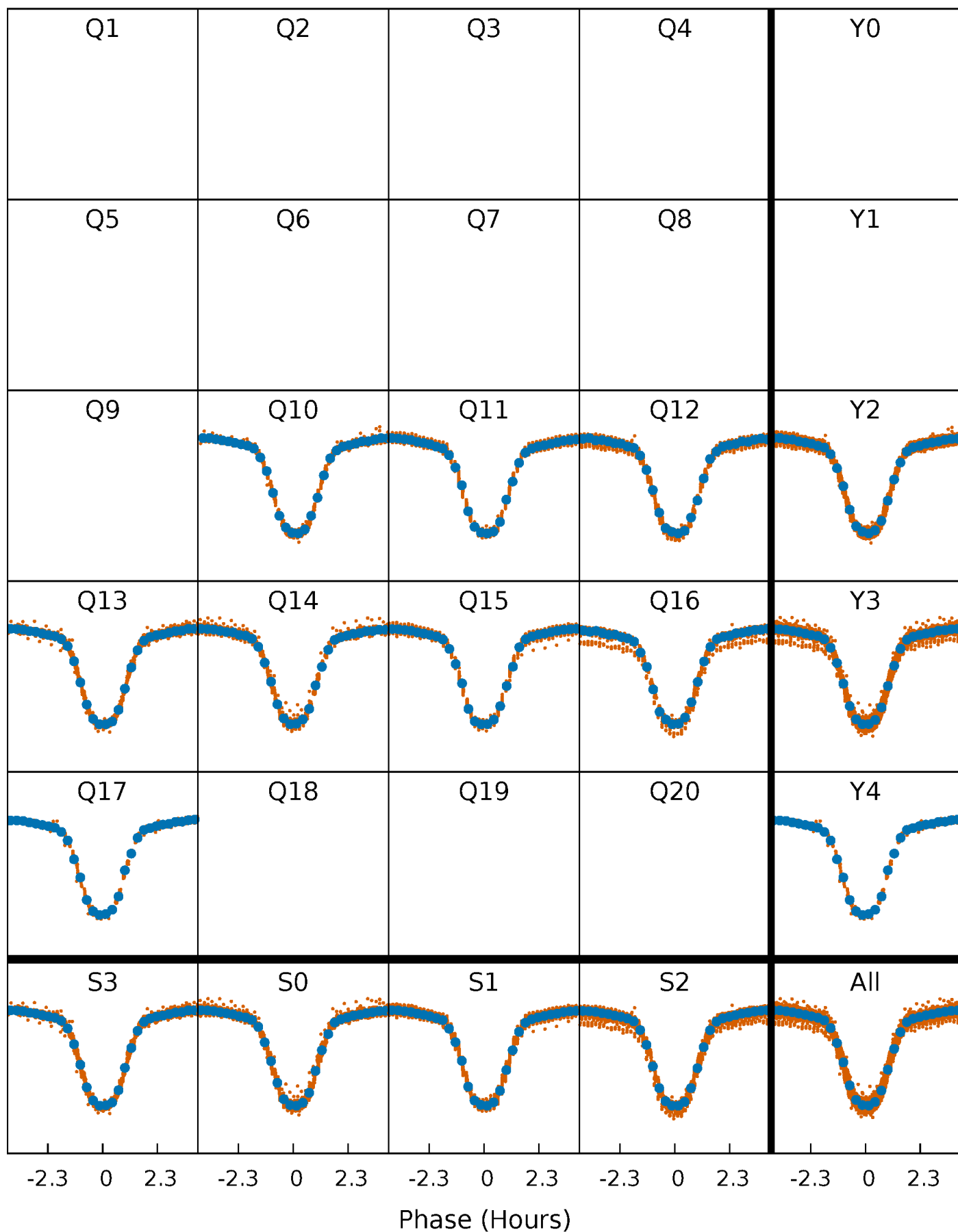


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



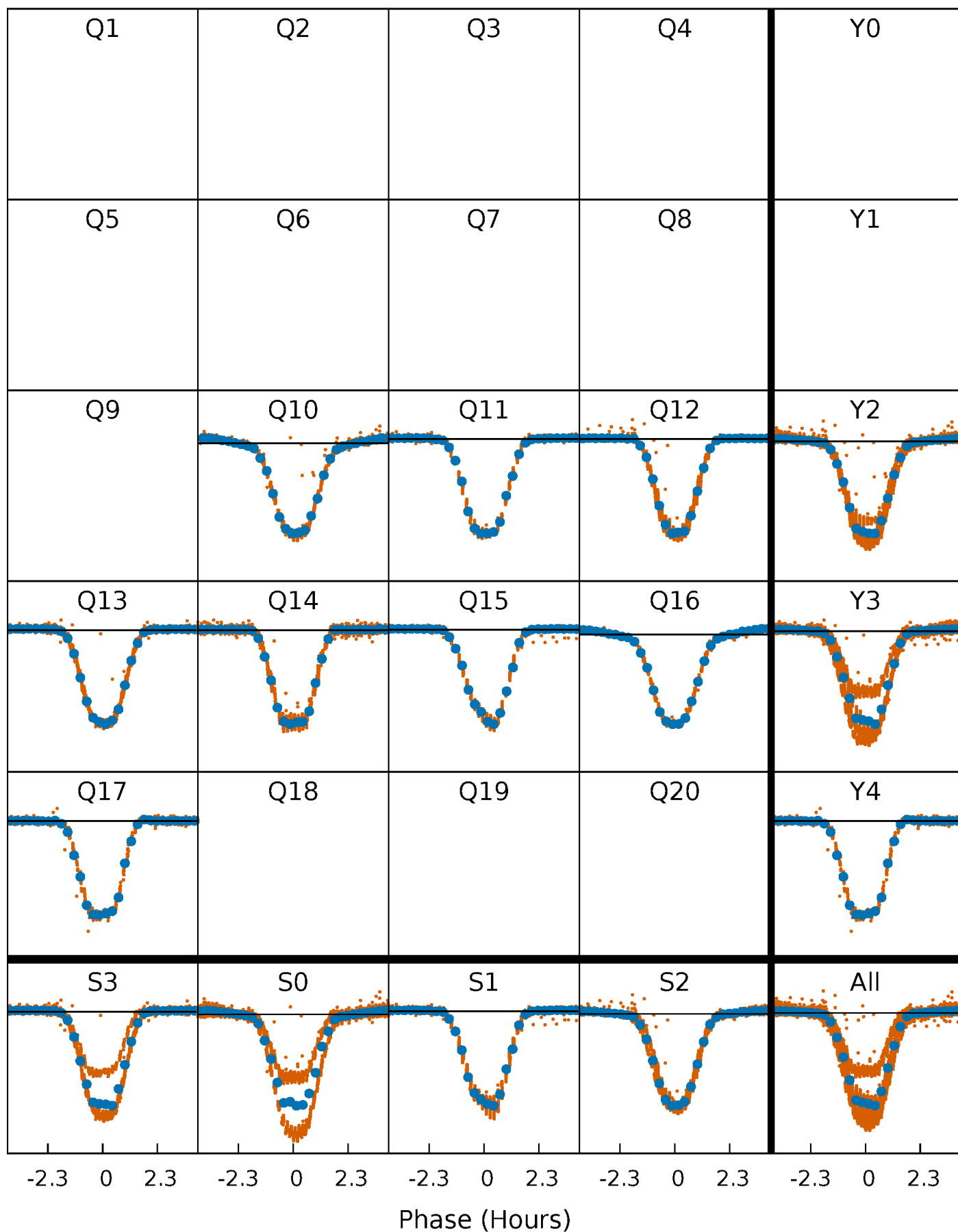
PDC Quarter-Phased Transit Curves

TCE 009692336-01 P= 0.687905 Days $T_0=131.584110$ (BKJD)



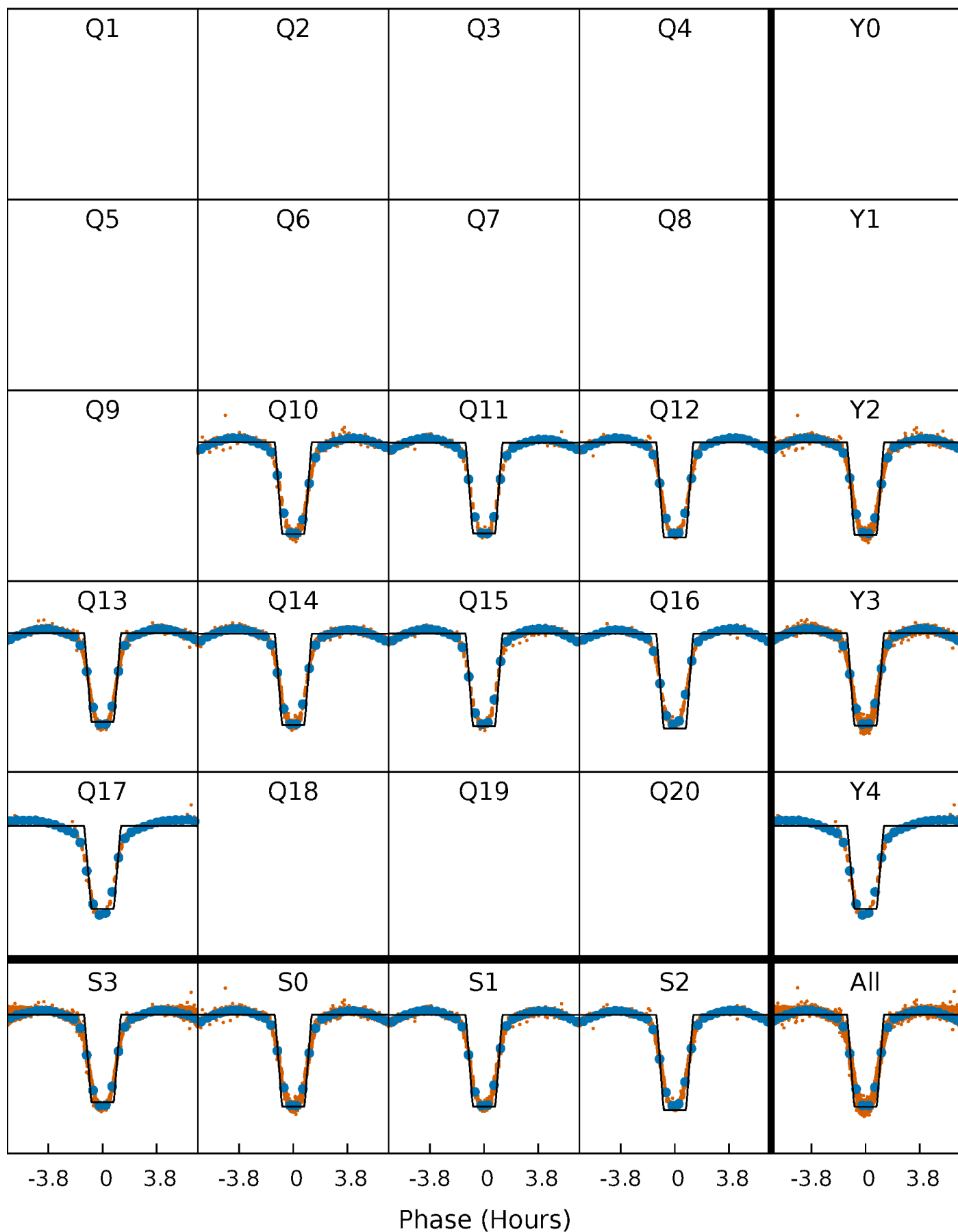
DV Quarter-Phased Transit Curves

TCE 009692336-01 P= 0.687905 Days $T_0=131.584110$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

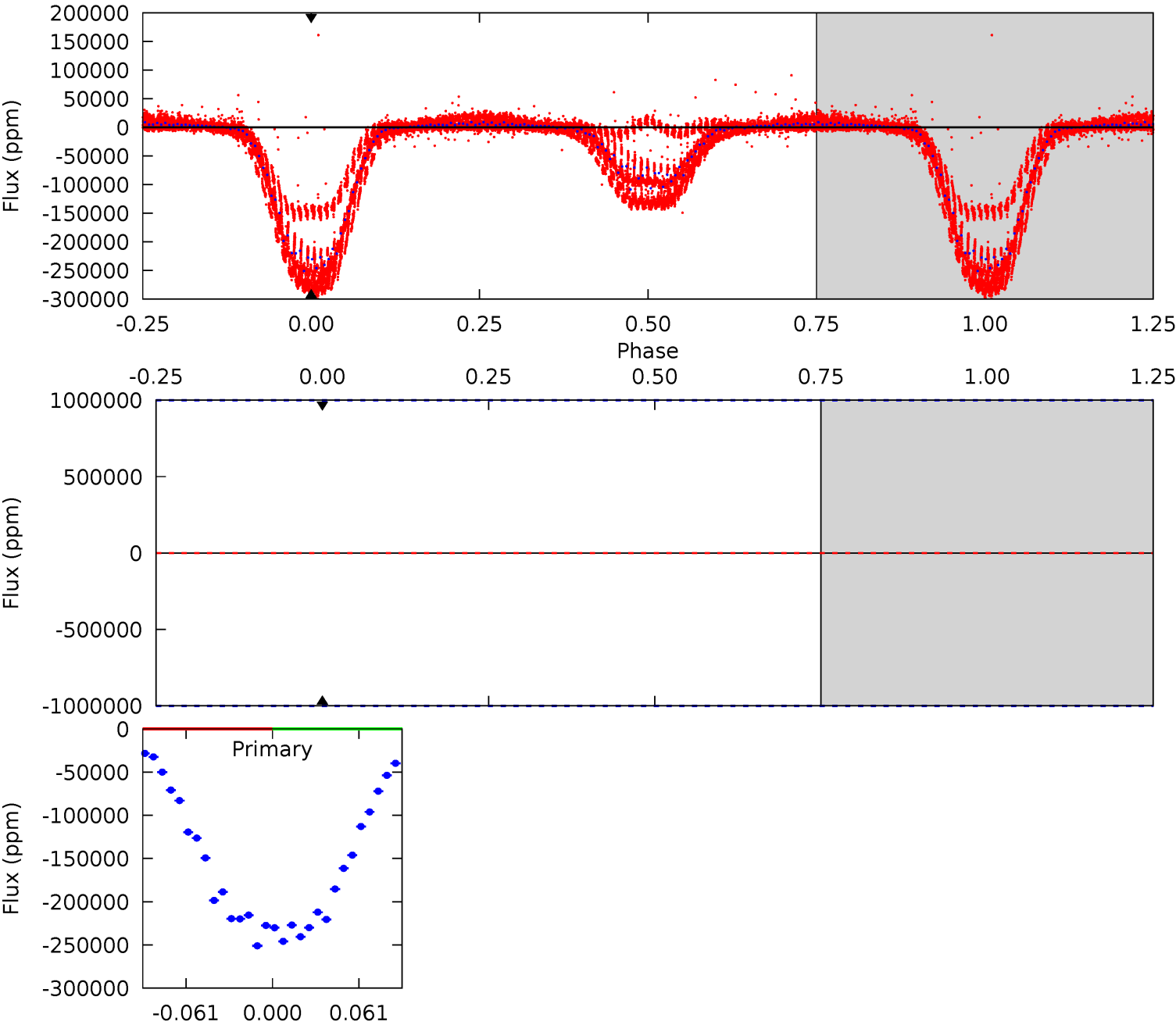
TCE 009692336-01 $P = 0.687905$ Days $T_0 = 131.585896$ (BKJD)



DV Model-Shift Uniqueness Test

009692336-01, P = 0.687905 Days, E = 131.584110 Days

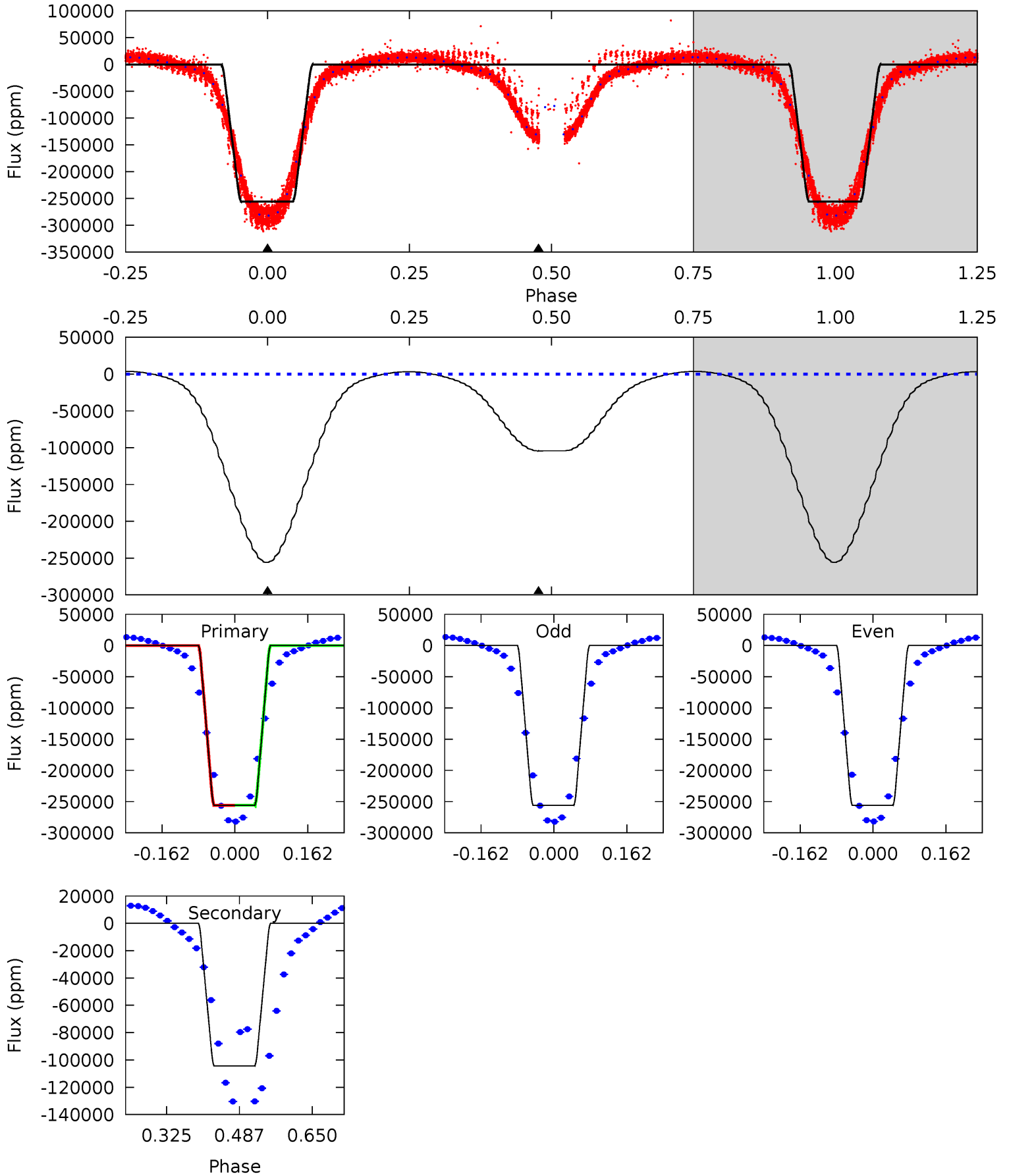
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

009692336-01, P = 0.687905 Days, E = 131.585896 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1701	693.9	0	0	4.46	1.40	32.5	1701	1701	693.9	693.9	0.41	1.00	0.01	0.38



Stellar Parameters For KIC 009692336

	$T_{\text{eff}}(K)$	$\log(g)$	[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 009692336-01 / KOI 3859.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$48.55^{+12.01}_{-10.95}$	2891^{+149}_{-140}	-2999^{+8179}_{-2028}	$-0.014^{+6.857}_{-5.312}$
Alt.	-104380 ± 150	$58.37^{+12.28}_{-11.19}$	2886^{+138}_{-135}	4678^{+428}_{-354}	$4.409^{+2.231}_{-1.349}$

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 $A_{obs} \gg 1.0$

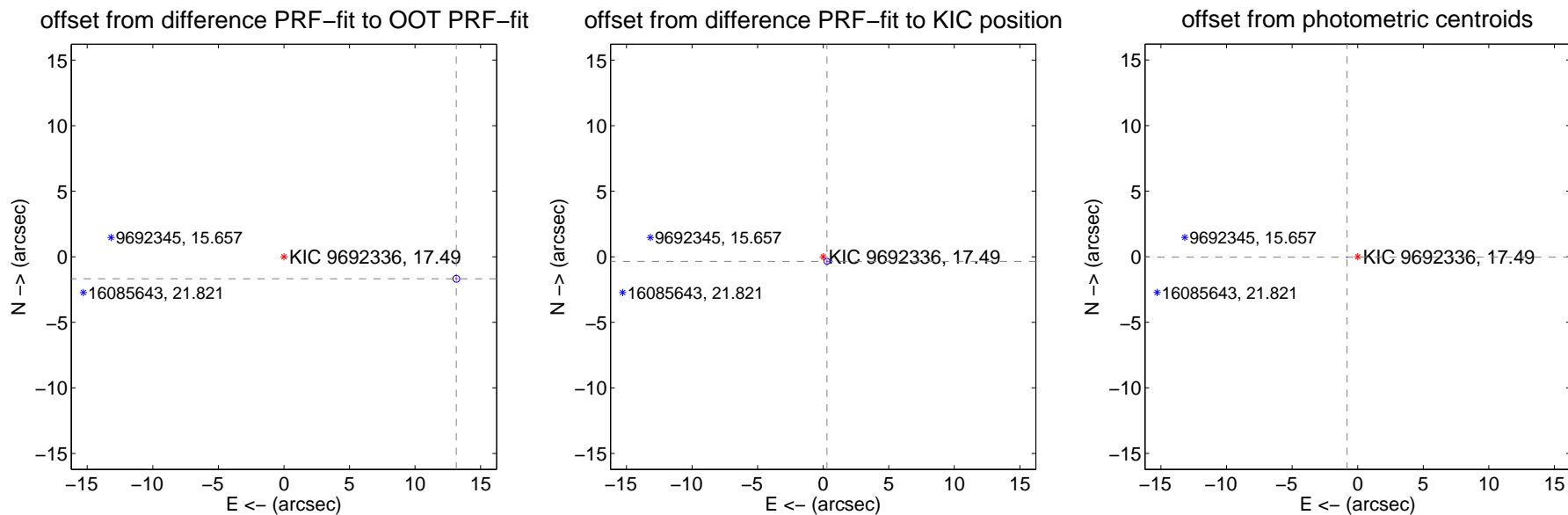
DV Centroid Data

Supplemental centroid analysis for 009692336-01. Kepler magnitude: 17.49. Transit SNR -1.00

There are 8 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 12.90 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	13.254 ± 0.087	152.51	-13.148 ± 0.087	-1.679 ± 0.067
PRF-fit source offset from KIC position	0.451 ± 0.075	5.99	-0.288 ± 0.070	-0.347 ± 0.073
photometric centroid source offset	0.81 ± 0.01	160.84	0.81 ± 0.01	-0.03 ± 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.

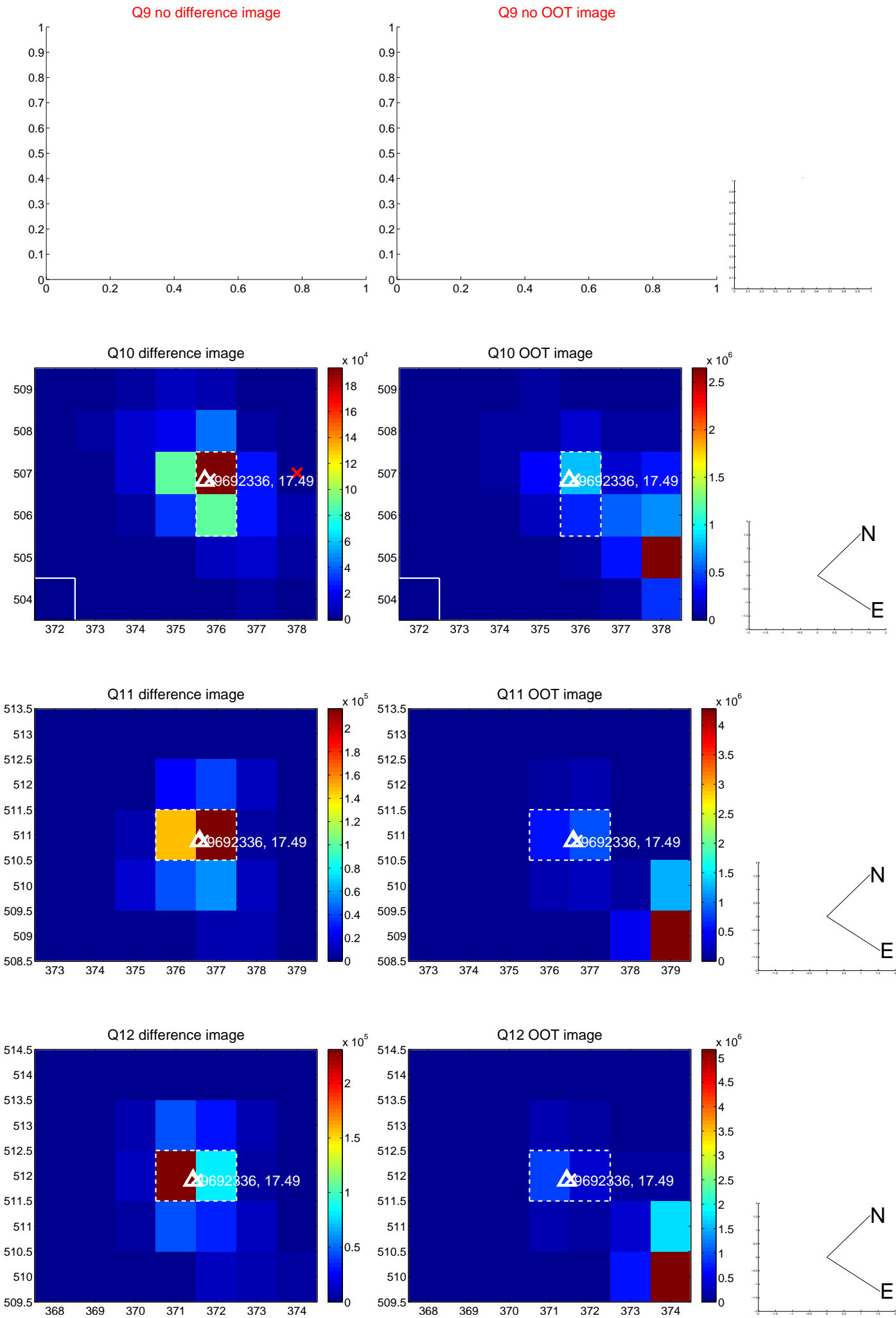
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



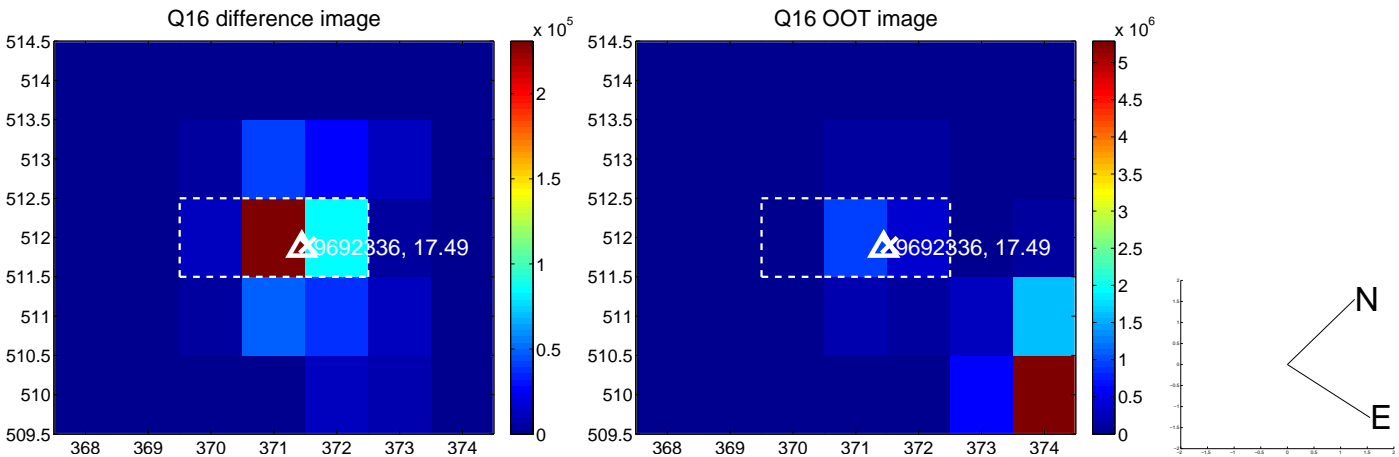
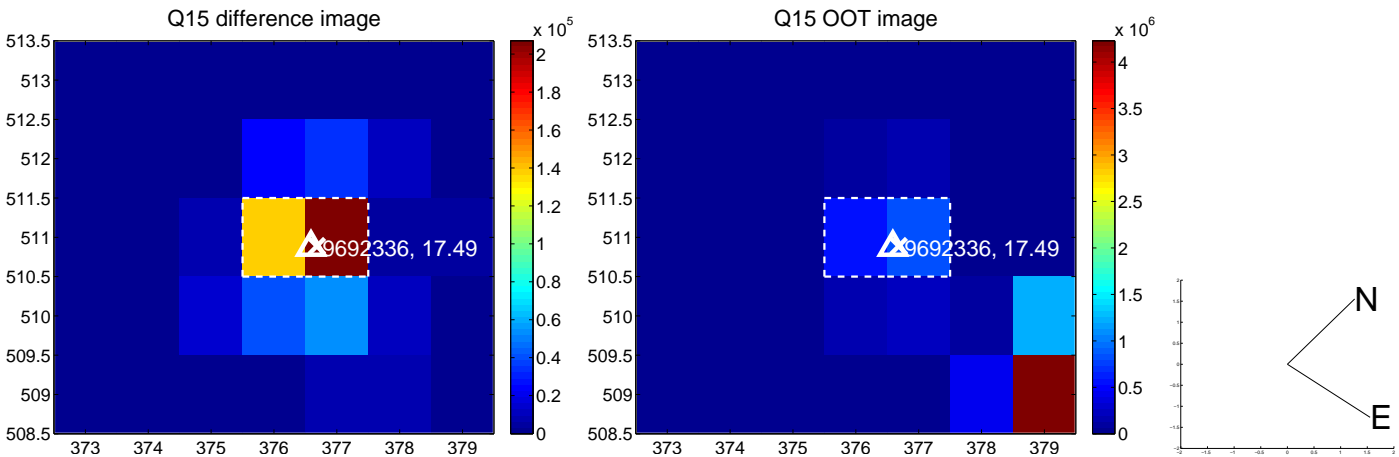
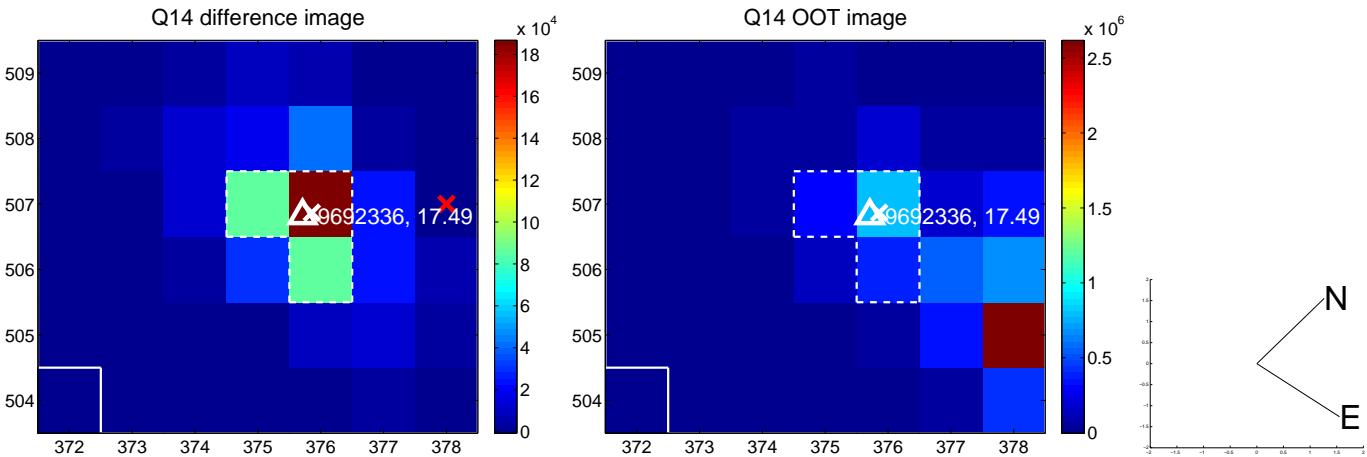
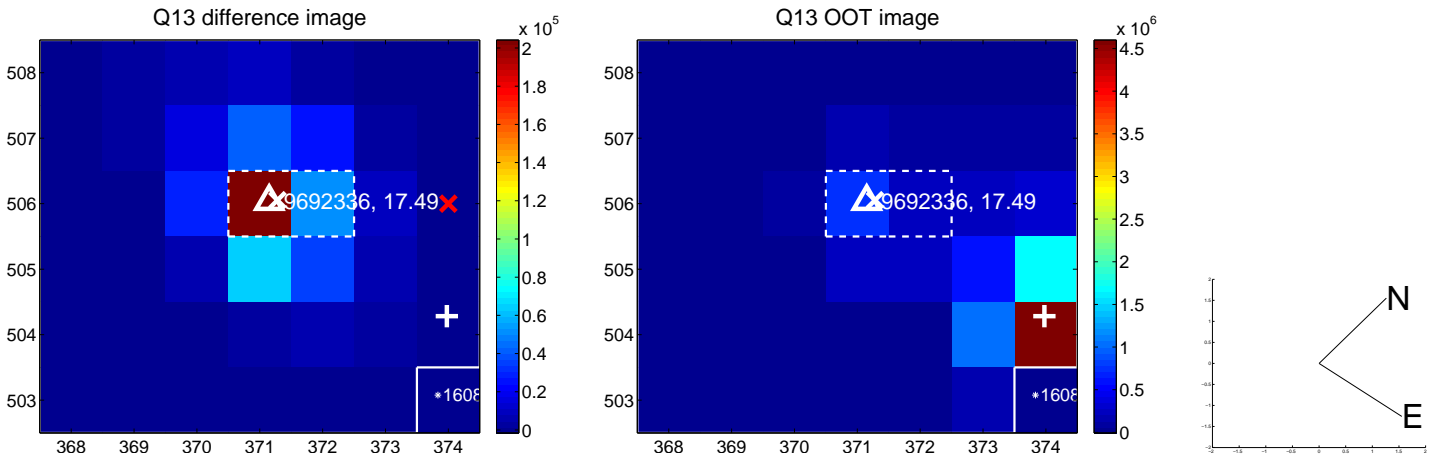
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



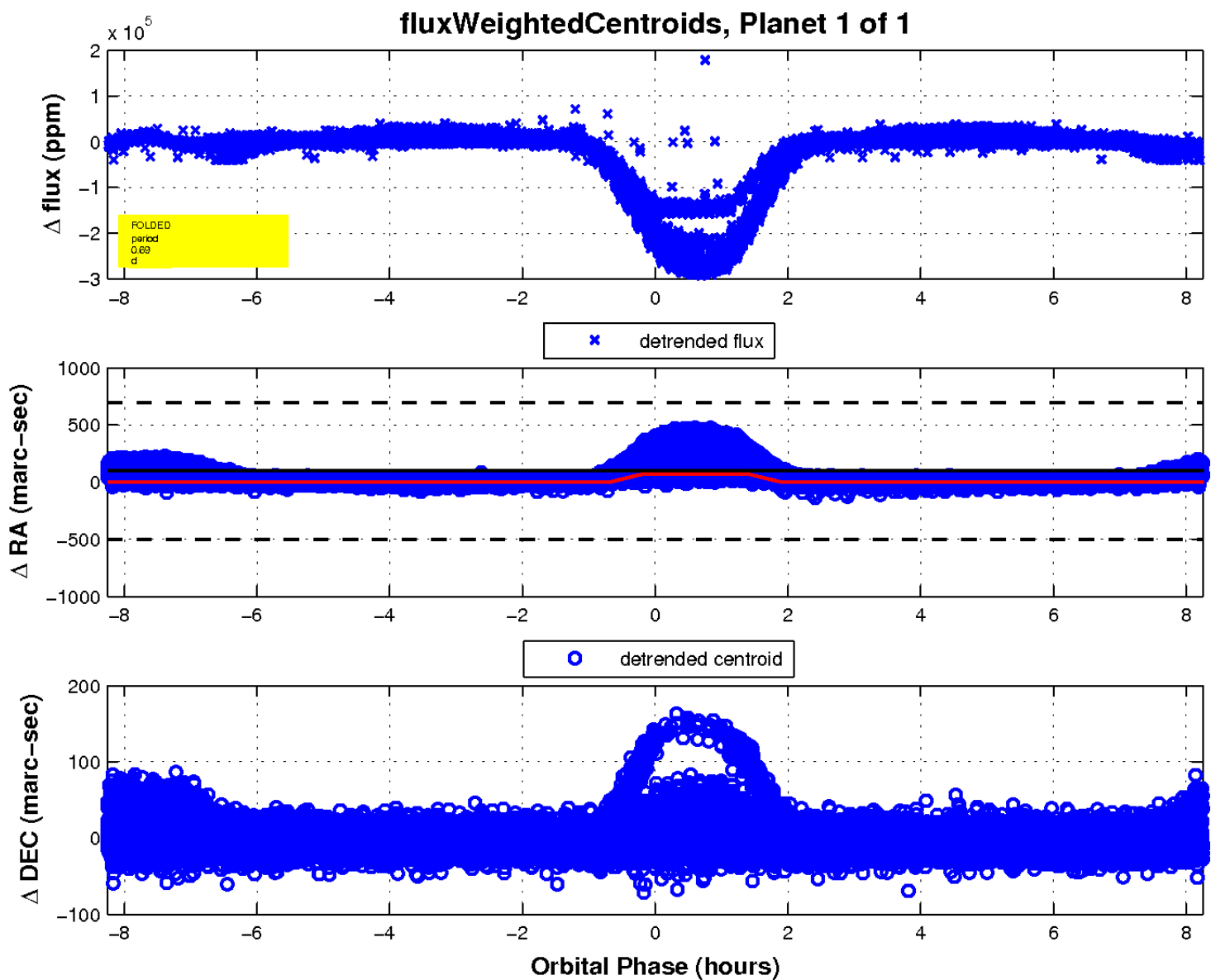
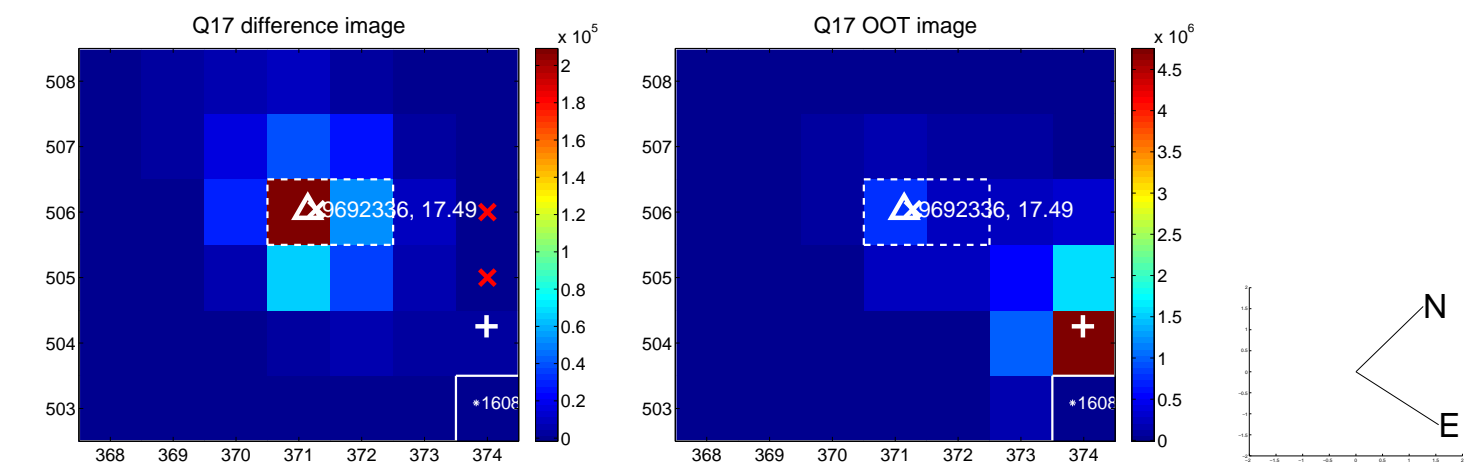
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UKIRT Image

Declination

