

KIC 011340623

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})
011340623-01	OBS	No	268.495022	137.375624	2065.8	7.264	11.7	7.2	0.94	5742	4.36	1.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011340623-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—INCONSISTENT_TRANS

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

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

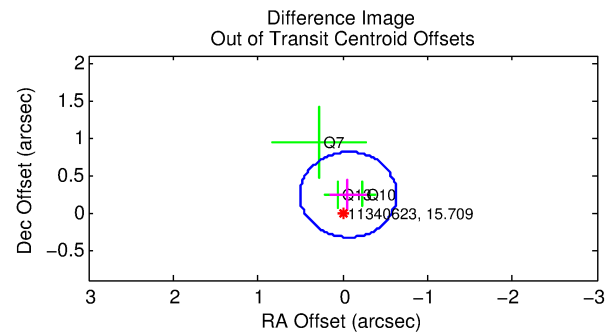
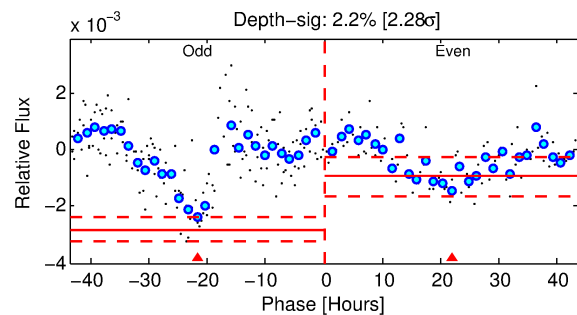
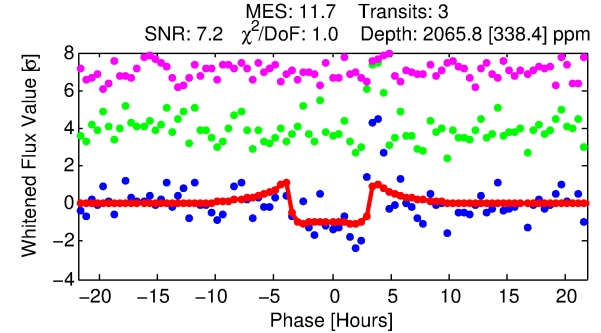
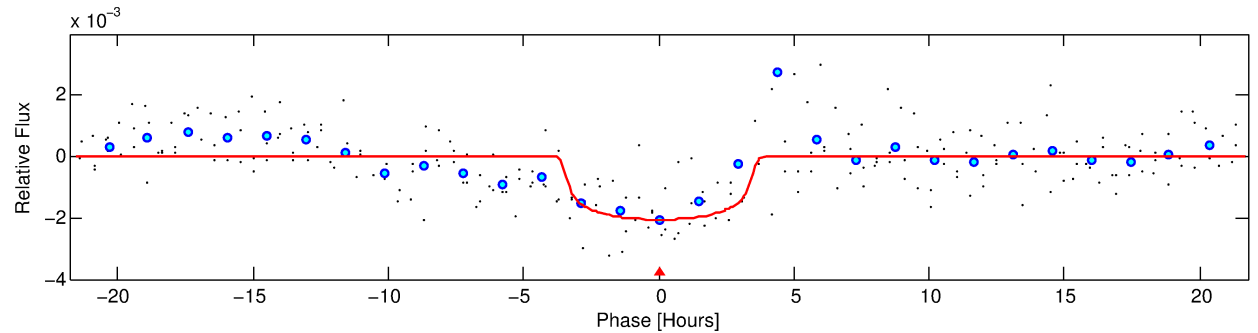
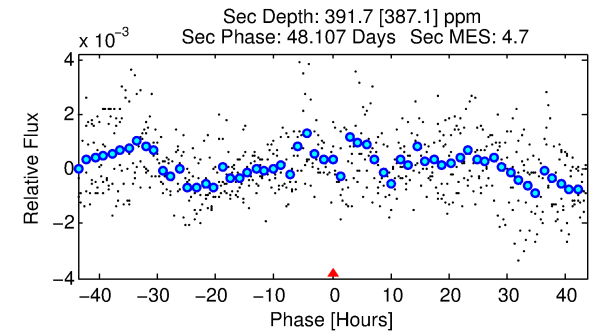
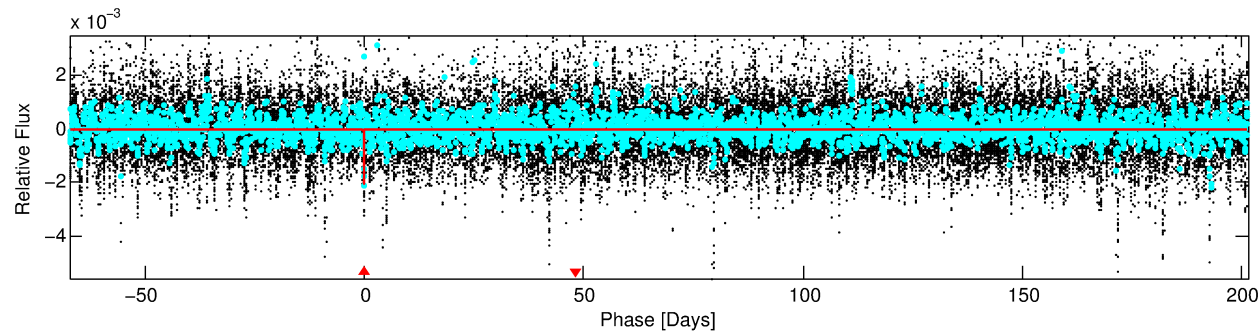
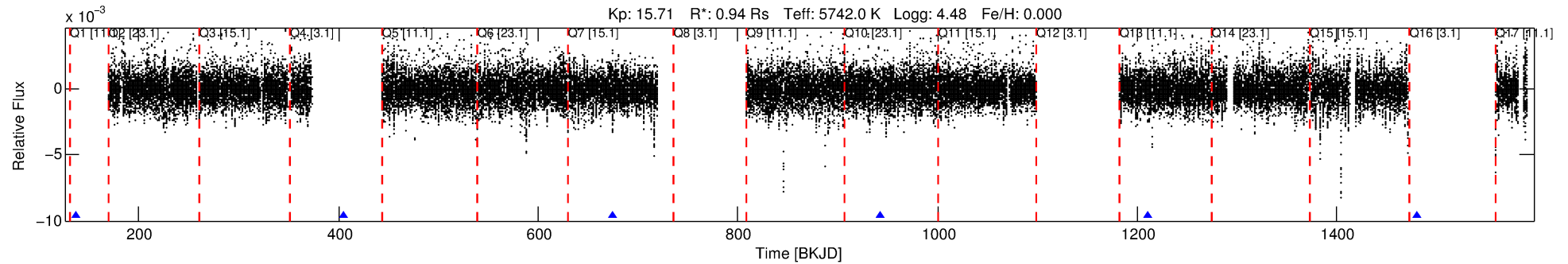
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011340623-01

No Significant Match Found

DV One-Page Summary

KIC: 11340623 Candidate: 1 of 1 Period: 268.495 d



DV Fit Results:

Period = 268.49502 [0.00706] d
Epoch = 137.3756 [0.0221] BKJD
Rp/R* = 0.0424 [0.0193]
a/R* = 260.88 [482.55]
b = 0.48 [2.96]
Seff = 1.33 [0.50]
Teq = 274 [26] K
Rp = 4.36 [2.35] Re
a = 0.8067 [0.1973] AU
Ag = 7389.37 [10268.08] [0.72sigma]
Teffp = 3922 [1323] K [2.76sigma]

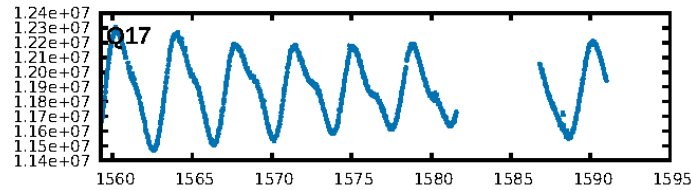
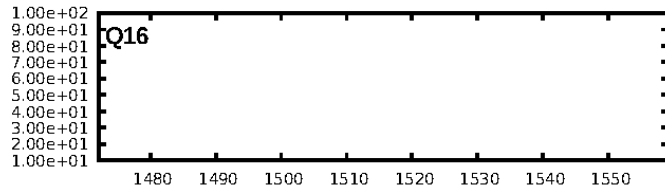
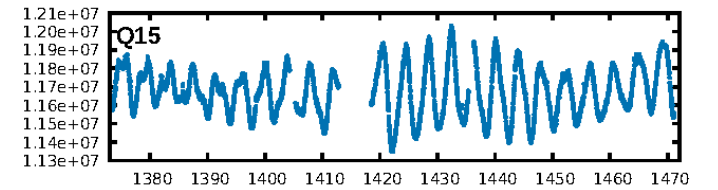
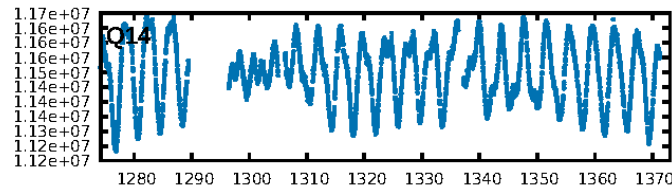
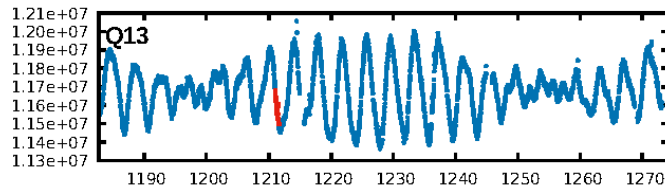
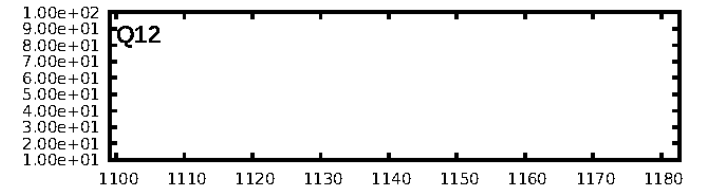
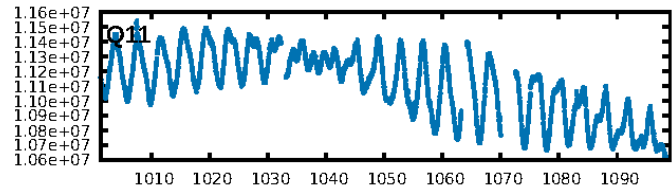
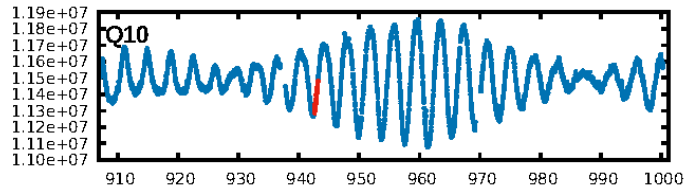
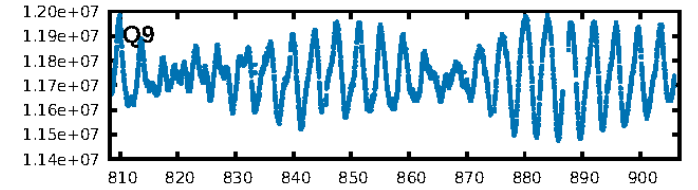
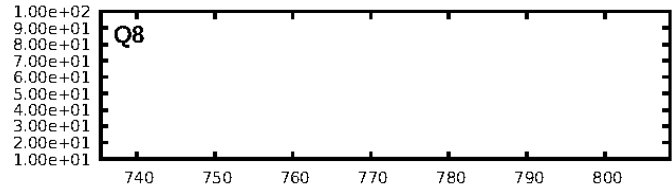
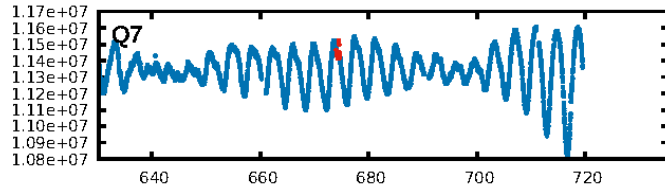
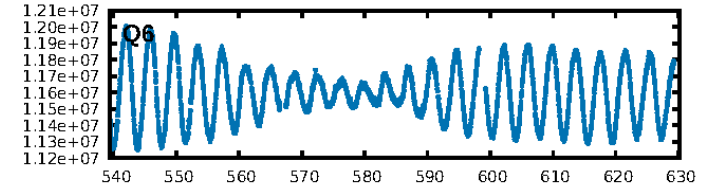
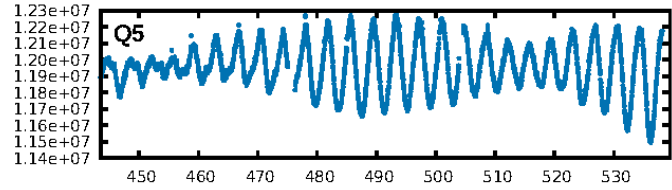
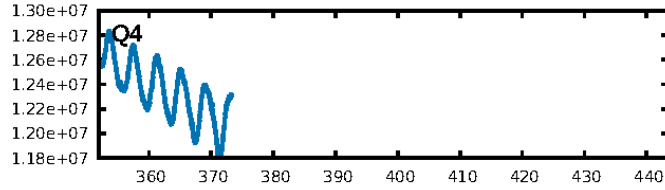
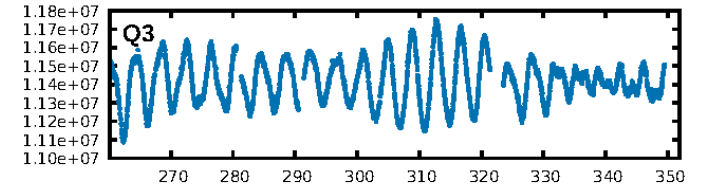
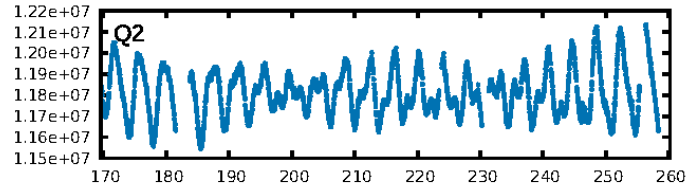
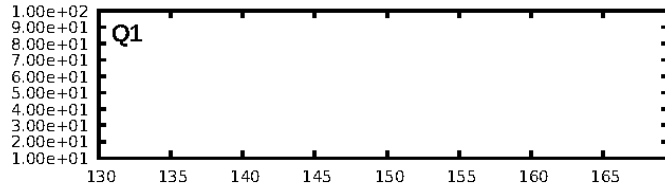
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.2%
ModelChiSquareGof-sig: 85.9%
Bootstrap-pfa: 9.66e-15
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.19
Centroid-sig: 67.0%
Centroid-so: 0.636 arcsec [0.76sigma]
OotOffset-rm: 0.248 arcsec [1.30sigma]
OotOffset-st: 1/1/0/1 [3]
KicOffset-rm: 0.452 arcsec [2.39sigma]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

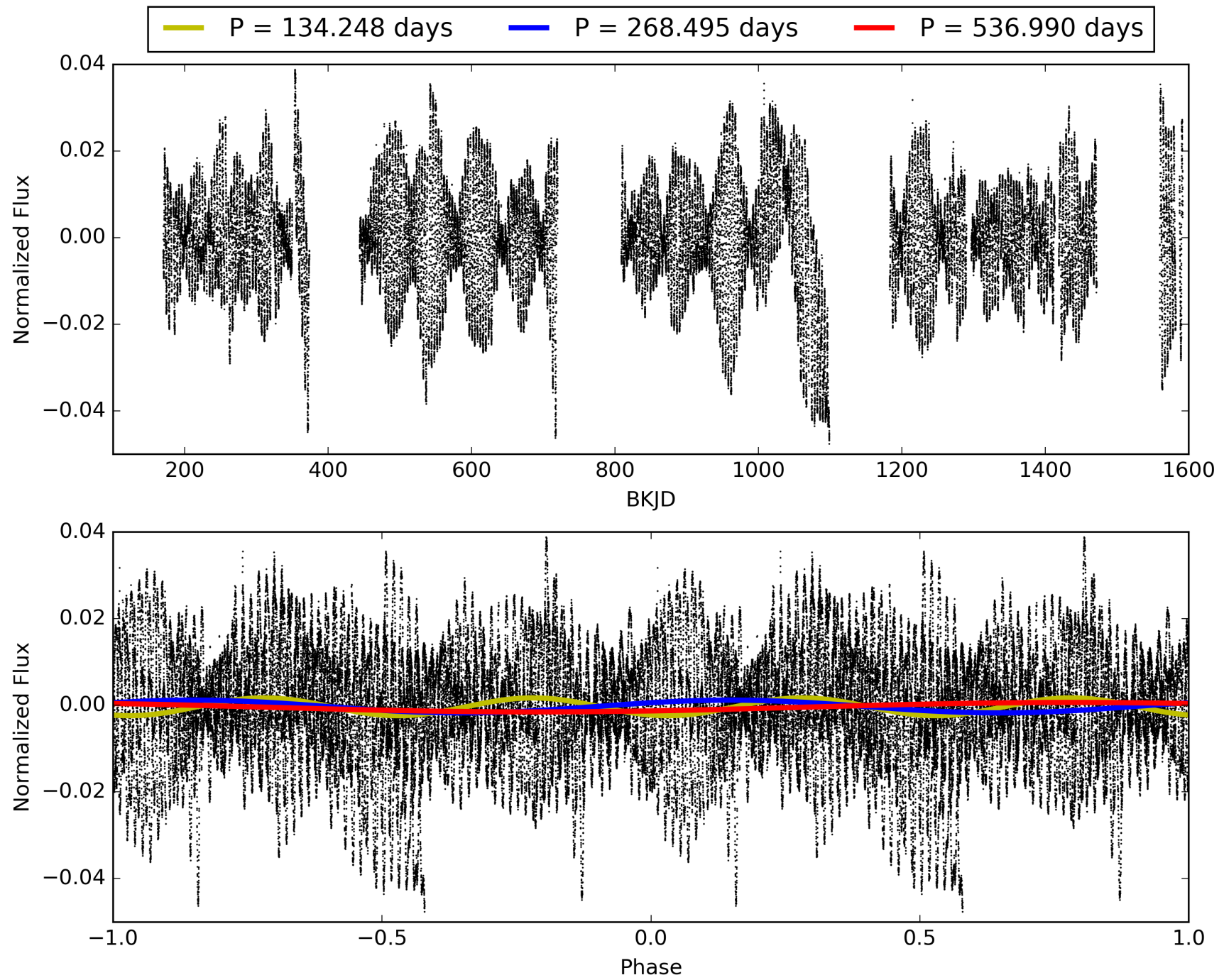
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 20:43:07 Z

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

TCE 011340623-01, PDC Light Curves

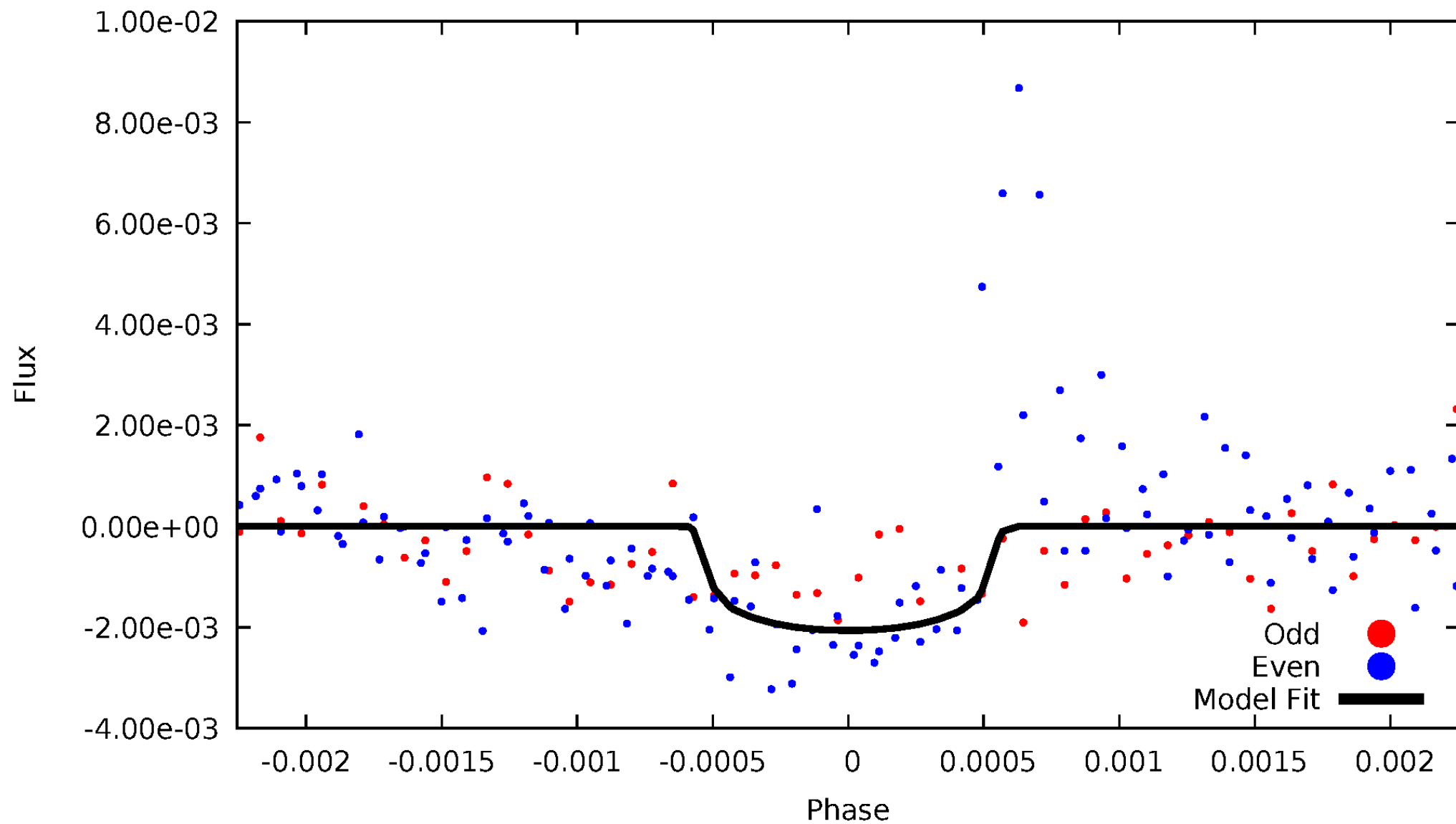


TCE 011340623-01



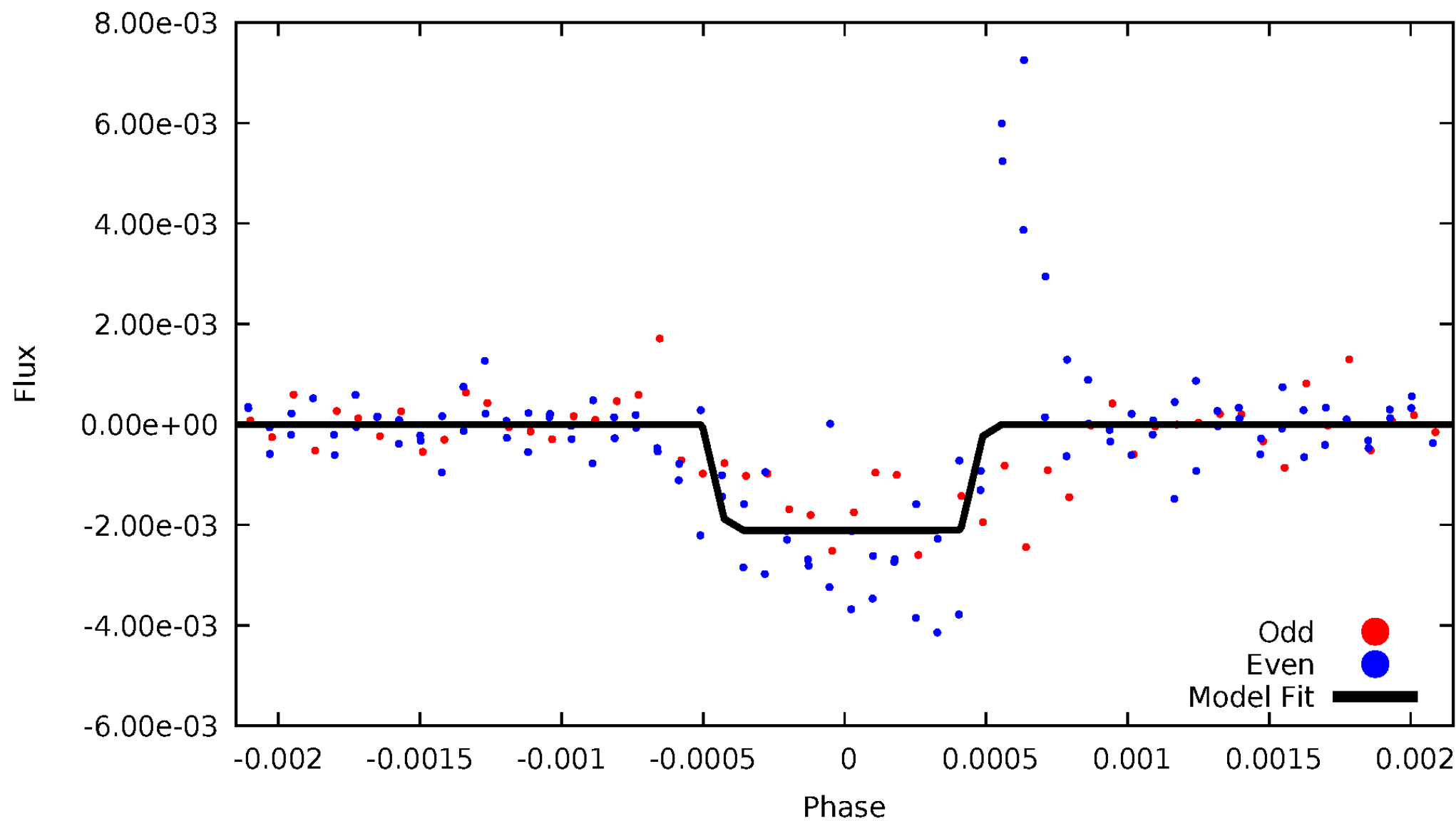
DV Odd/Even

TCE 011340623-01



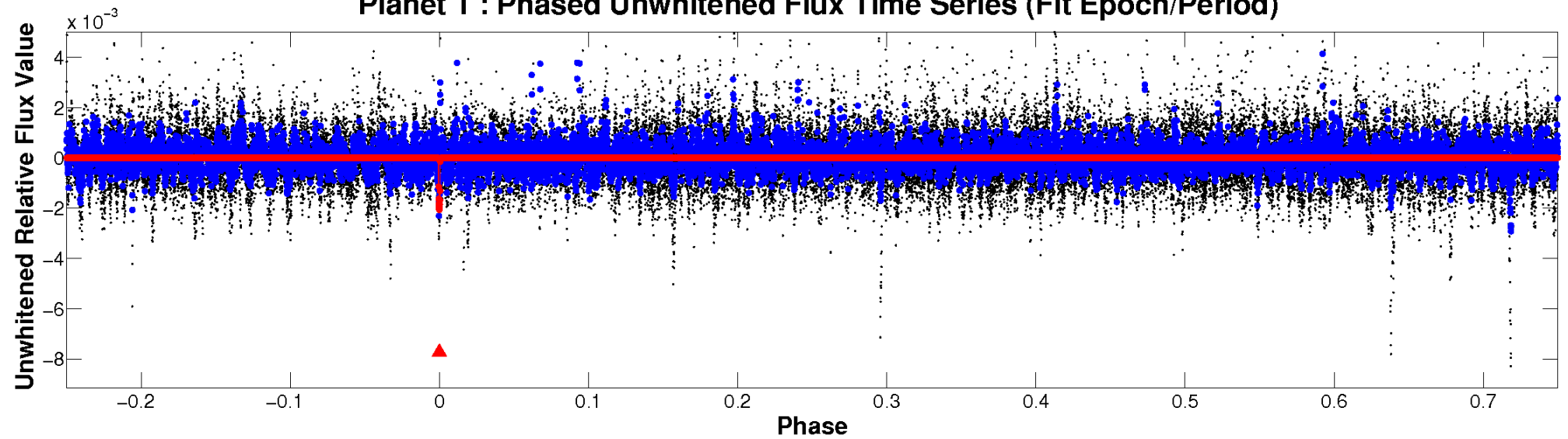
ALT Odd/Even

TCE 011340623-01

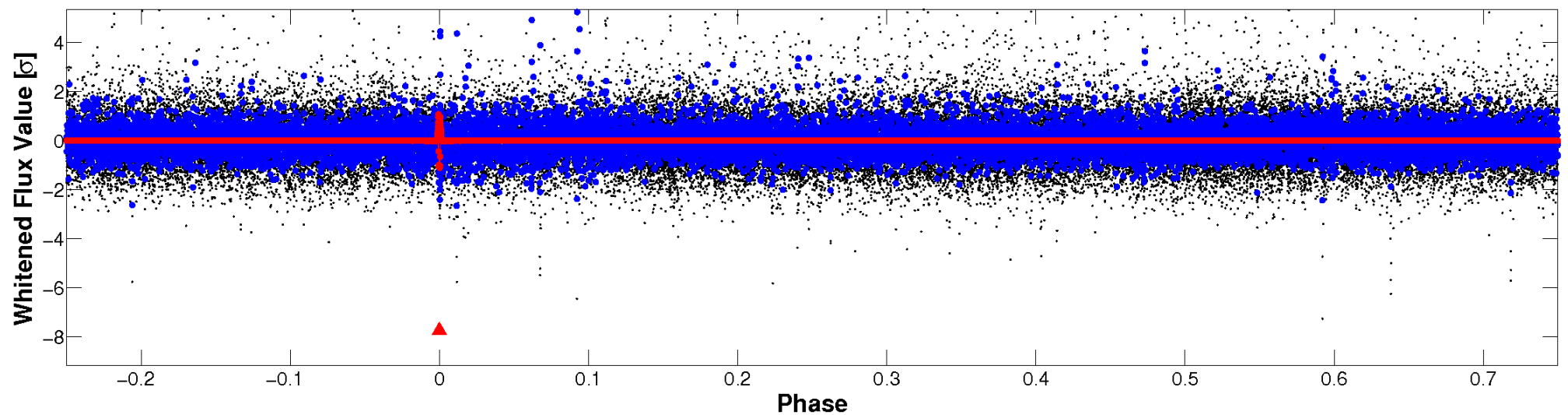


Non-Whitened Vs. Whitened Light Curve

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

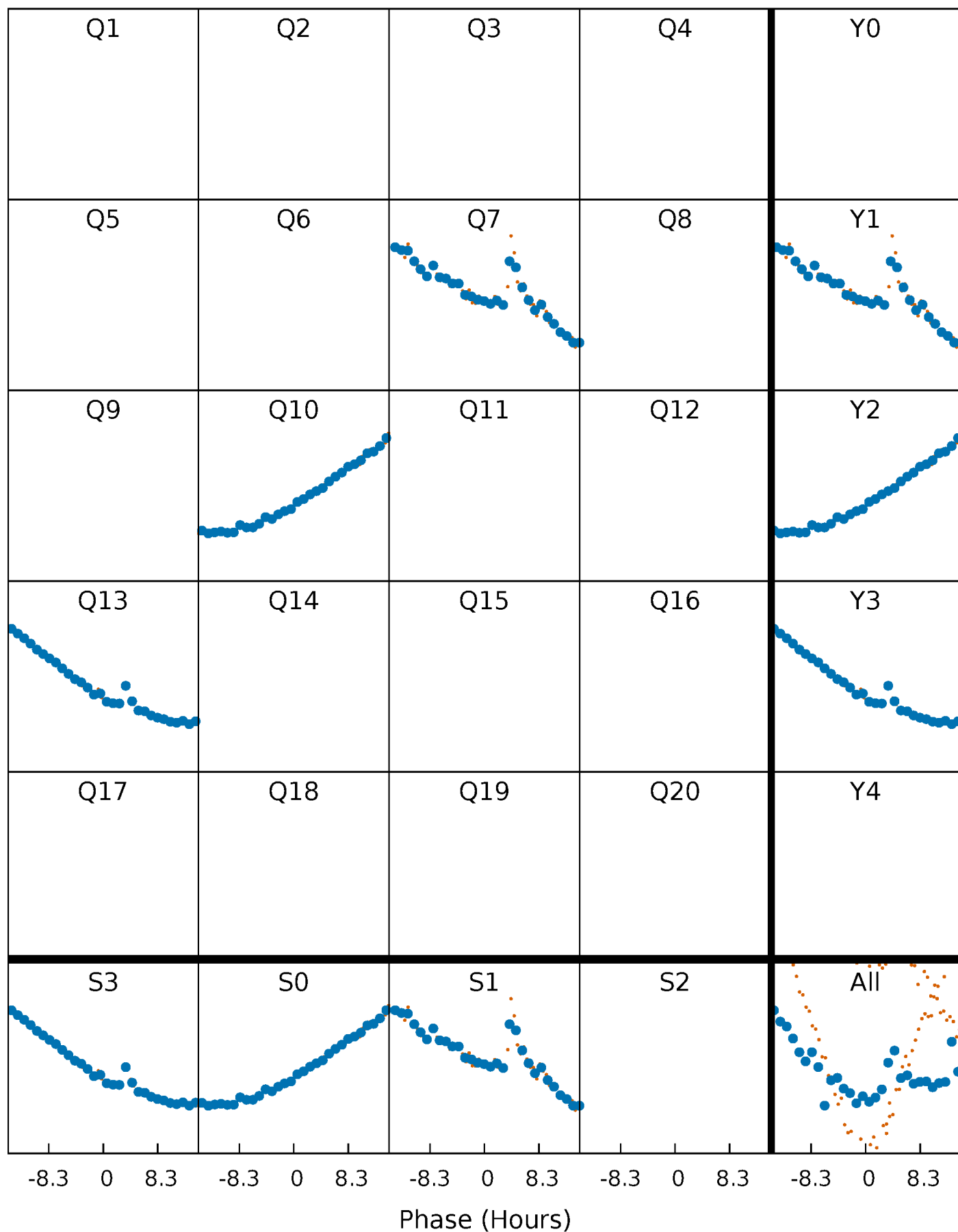


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



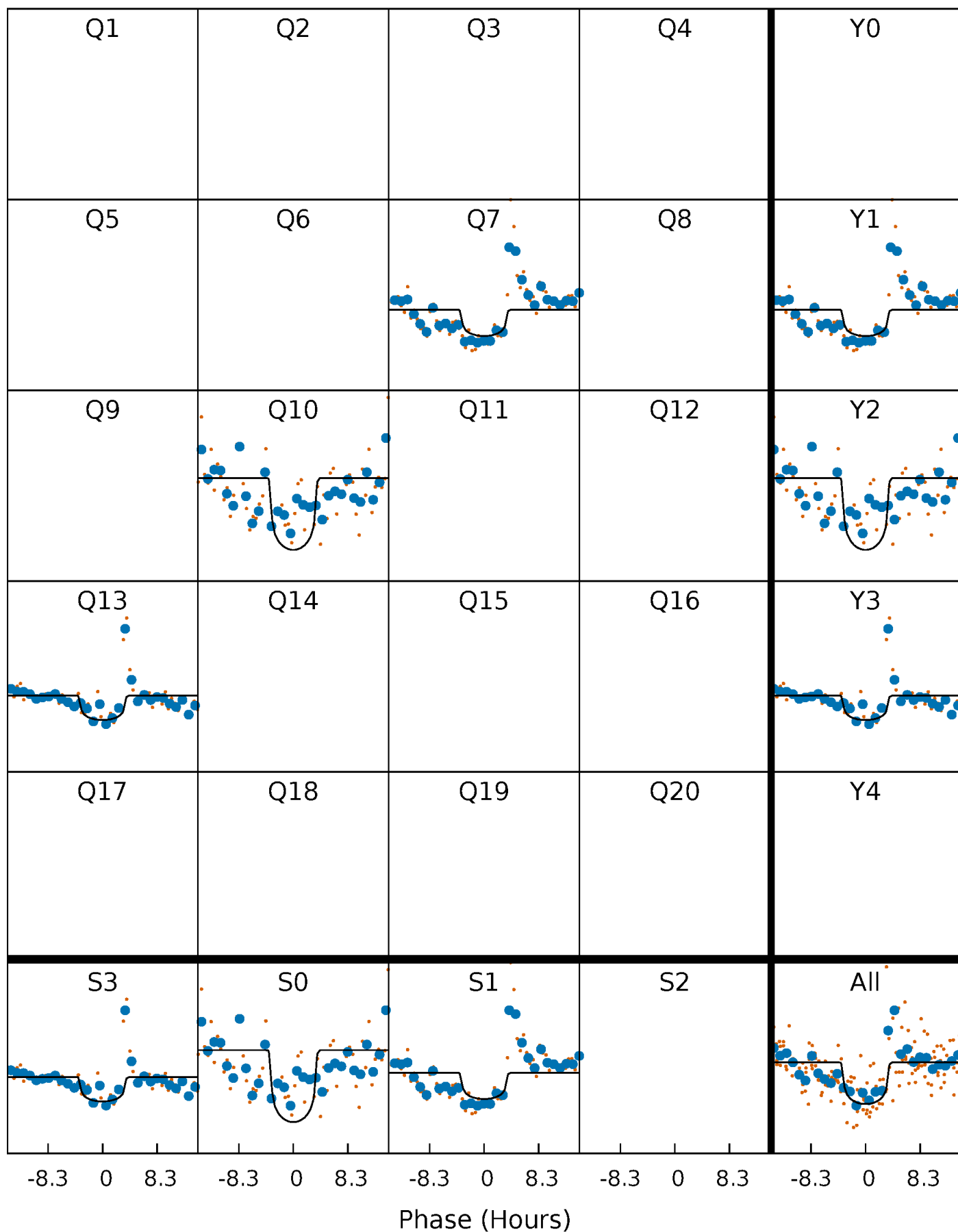
PDC Quarter-Phased Transit Curves

TCE 011340623-01 P=268.495022 Days $T_0=137.375624$ (BKJD)



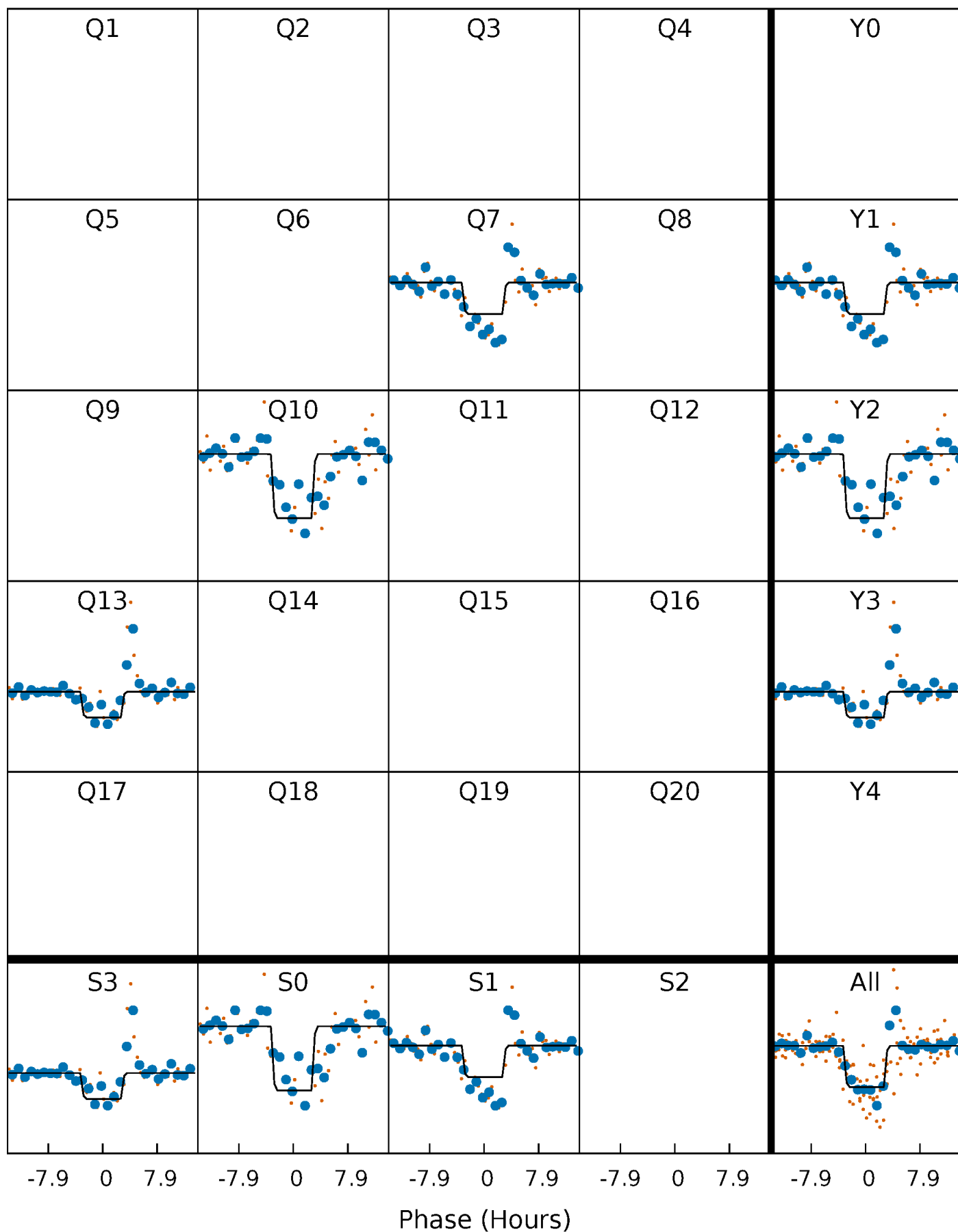
DV Quarter-Phased Transit Curves

TCE 011340623-01 P=268.495022 Days $T_0=137.375624$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

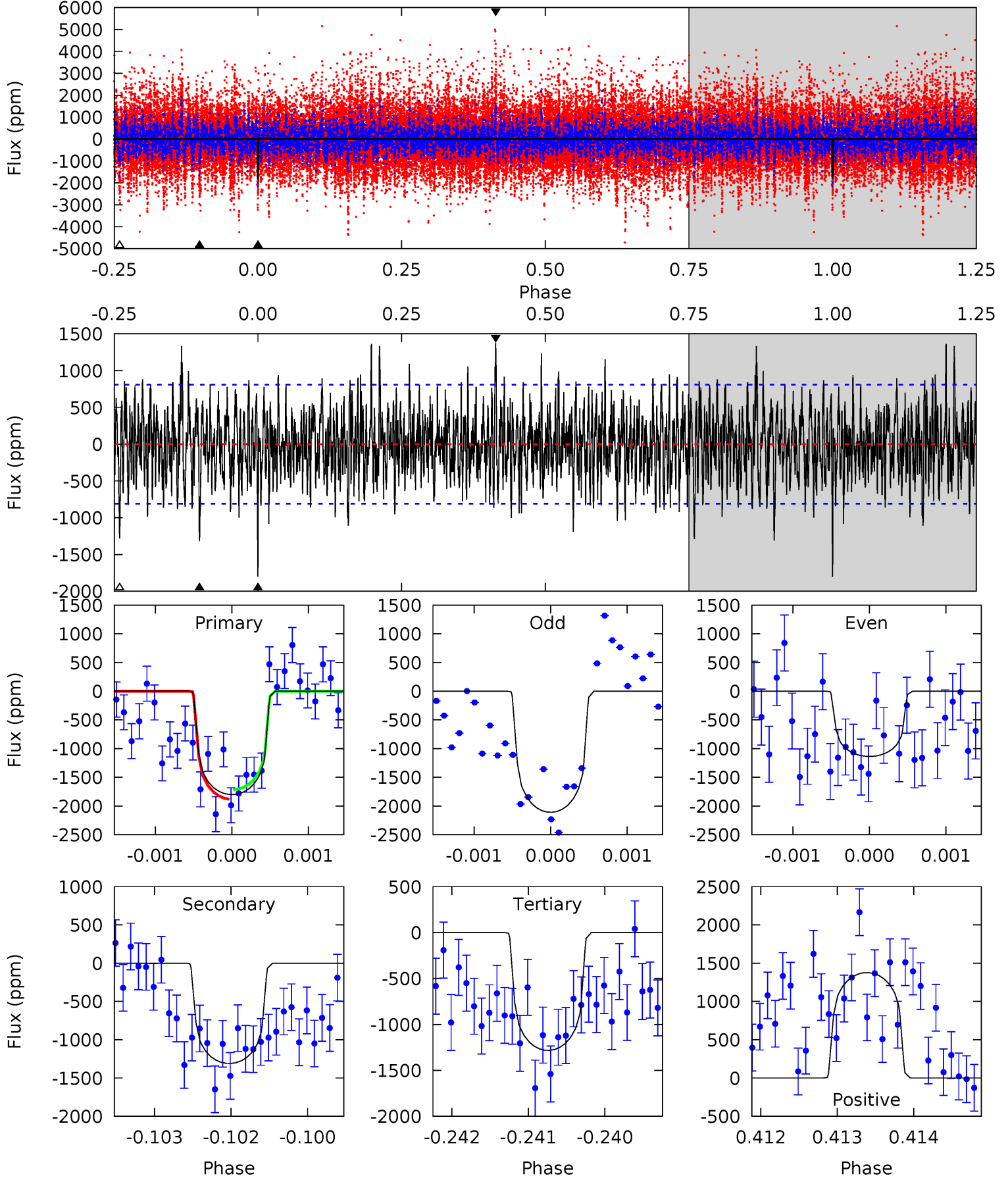
TCE 011340623-01 P=268.476545 Days $T_0=137.432337$ (BKJD)



DV Model-Shift Uniqueness Test

011340623-01, P = 268.495022 Days, E = 137.375624 Days

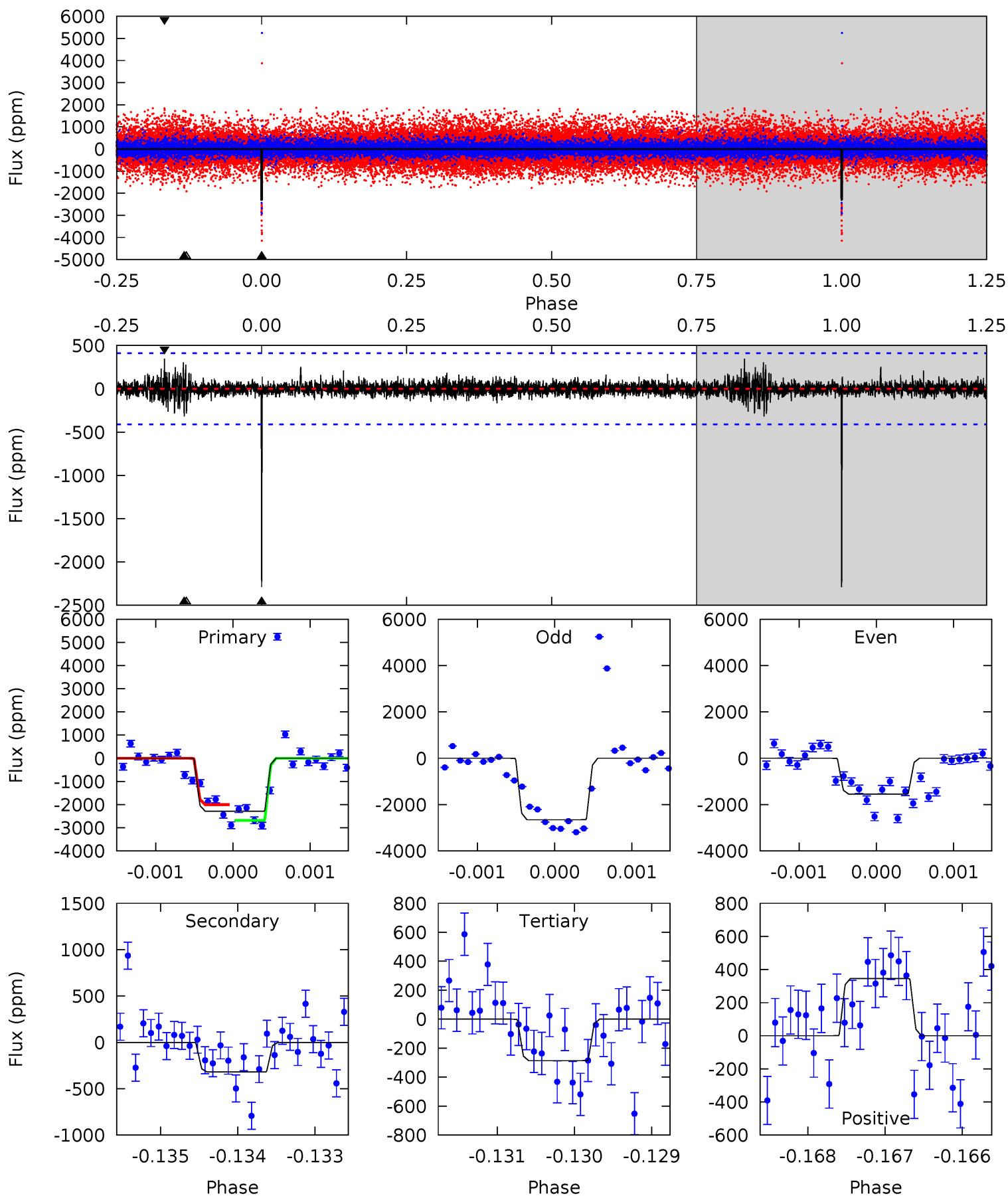
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.1	8.78	8.60	9.23	5.43	3.25	2.61	3.48	2.85	0.18	-0.45	3.03	1.22	0.43	0.56



Alt Model-Shift Uniqueness Test

011340623-01, P = 268.476545 Days, E = 137.432337 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
30.4	4.26	3.80	4.60	5.45	3.29	0.63	26.6	25.8	0.45	-0.34	7.09	1.20	0.13	4.51



Stellar Parameters For KIC 011340623

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5742^{+156}_{-190}	$4.478^{+0.065}_{-0.195}$	$0.000^{+0.250}_{-0.300}$	$0.941^{+0.273}_{-0.091}$	$0.971^{+0.114}_{-0.102}$	$1.641^{+0.446}_{-0.849}$
	+3%/-3%	+1%/-4%	+inf%/-inf%	+29%/-10%	+12%/-11%	+27%/-52%
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 011340623-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1310 ± 149	$4.63^{+2.11}_{-2.24}$	387^{+26}_{-18}	5291^{+1948}_{-767}	21782^{+56935}_{-11563}
Alt.	-320 ± 75	$5.03^{+2.15}_{-2.10}$	389^{+25}_{-20}	3879^{+907}_{-449}	4475^{+8691}_{-2404}

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

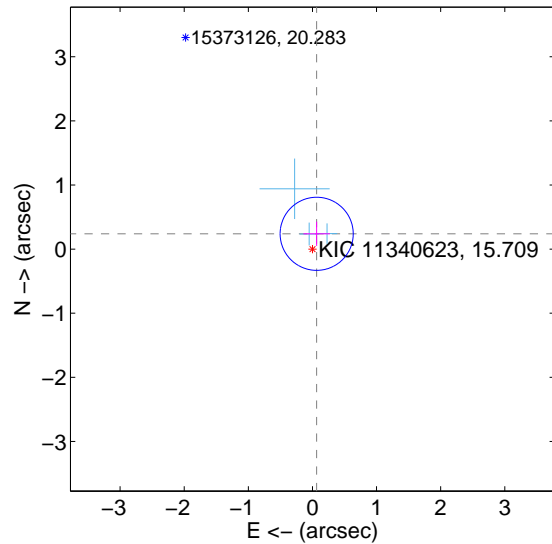
Supplemental centroid analysis for 011340623-01. Kepler magnitude: 15.71. Transit SNR 7.16

There are 3 quarters with good PRF difference image offsets

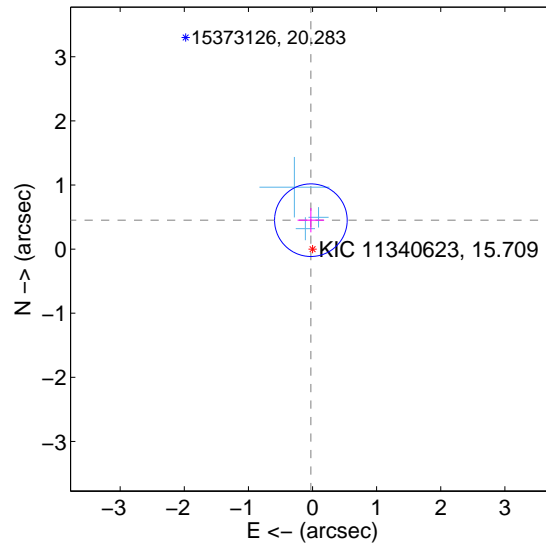
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.248 ± 0.190	1.30	-0.066 ± 0.207	0.239 ± 0.189
PRF-fit source offset from KIC position	0.452 ± 0.189	2.39	0.026 ± 0.207	0.451 ± 0.189
photometric centroid source offset	0.64 ± 0.84	0.76	0.58 ± 0.82	-0.25 ± 0.91

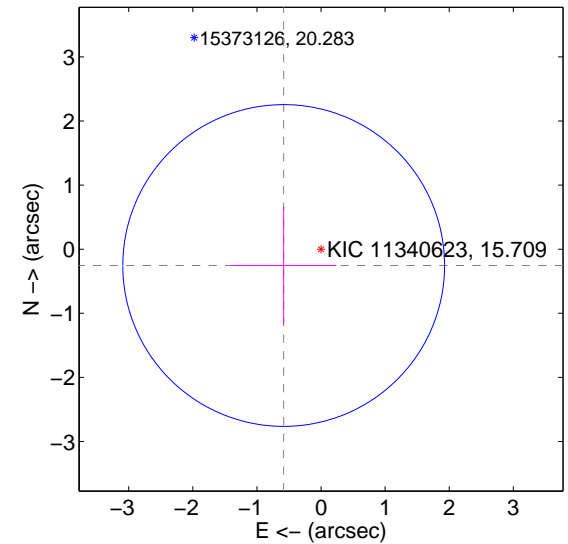
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

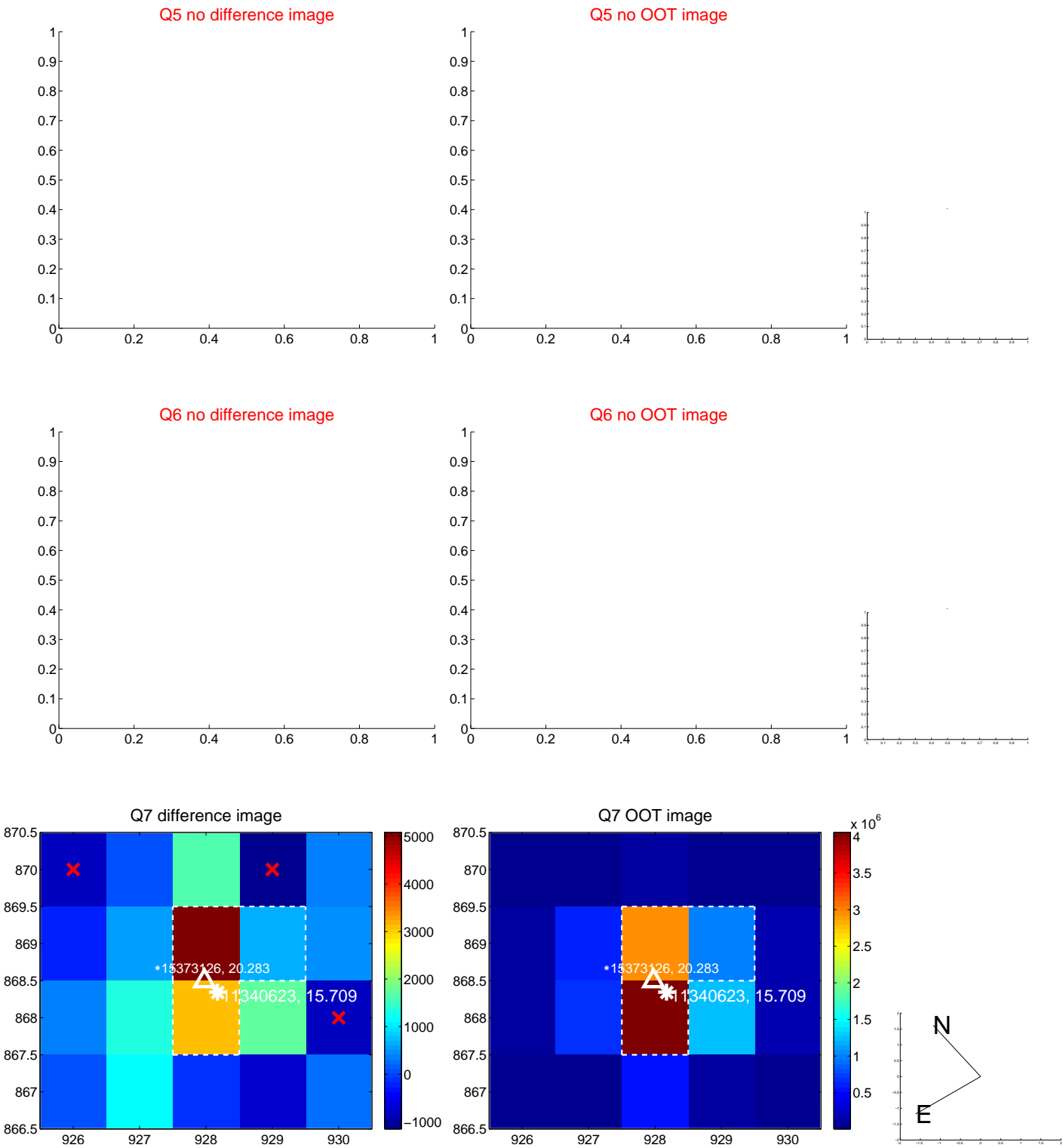


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

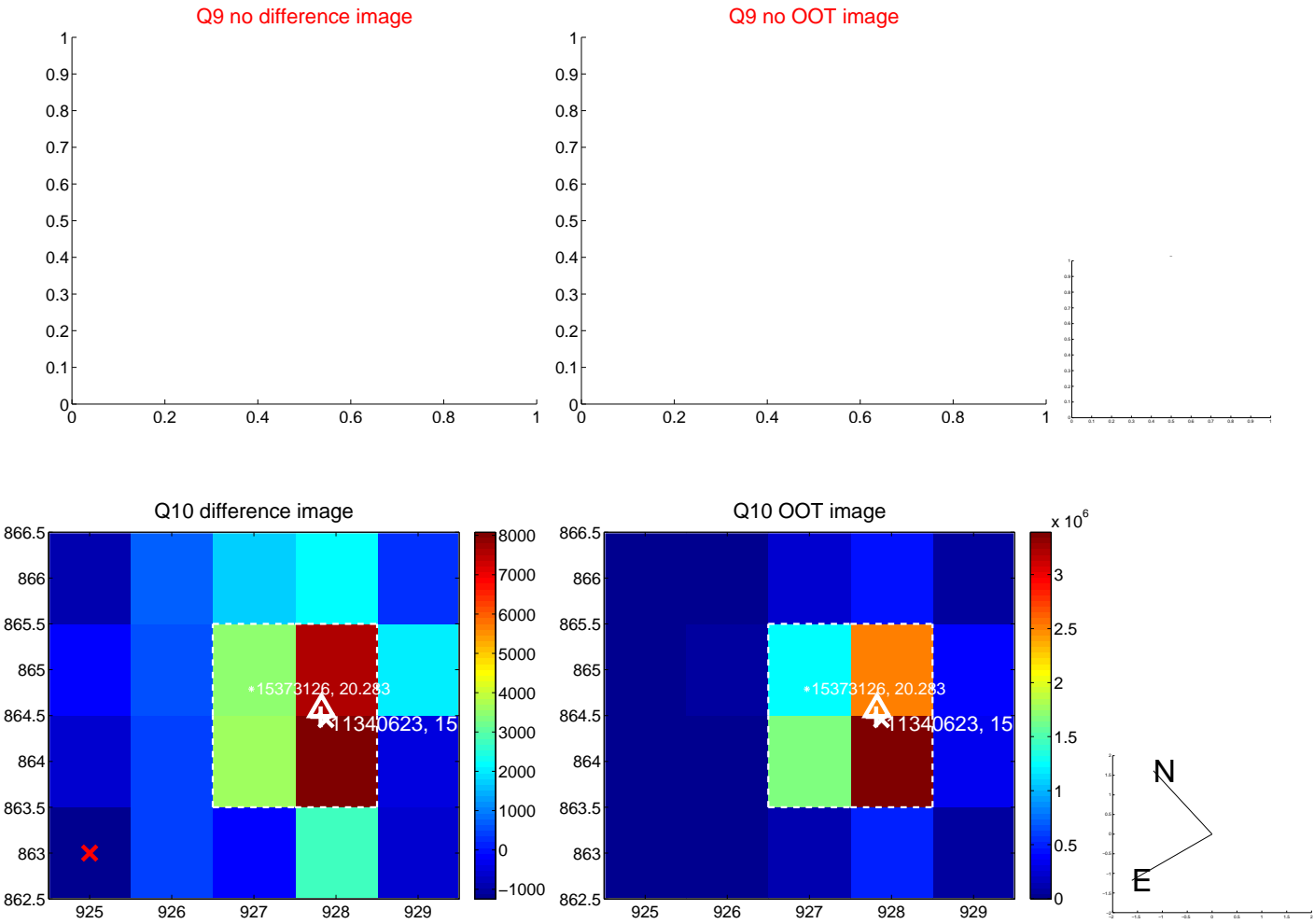
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



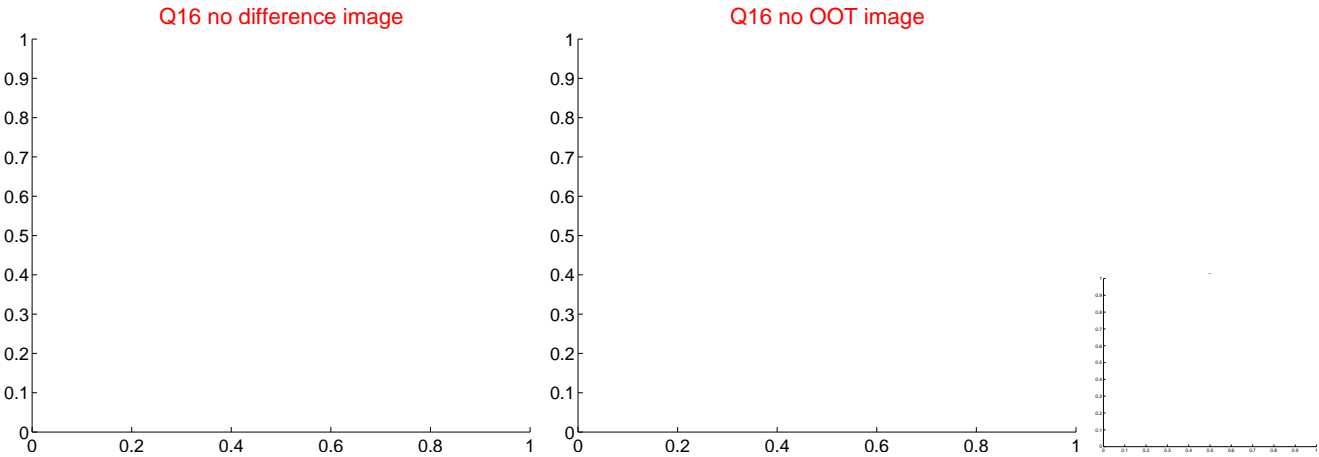
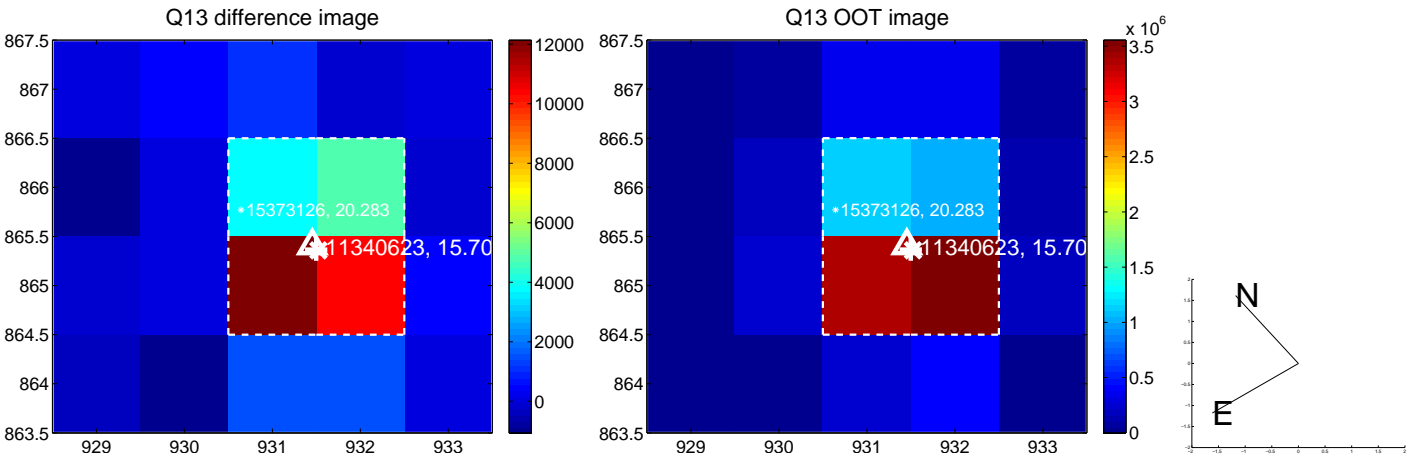
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



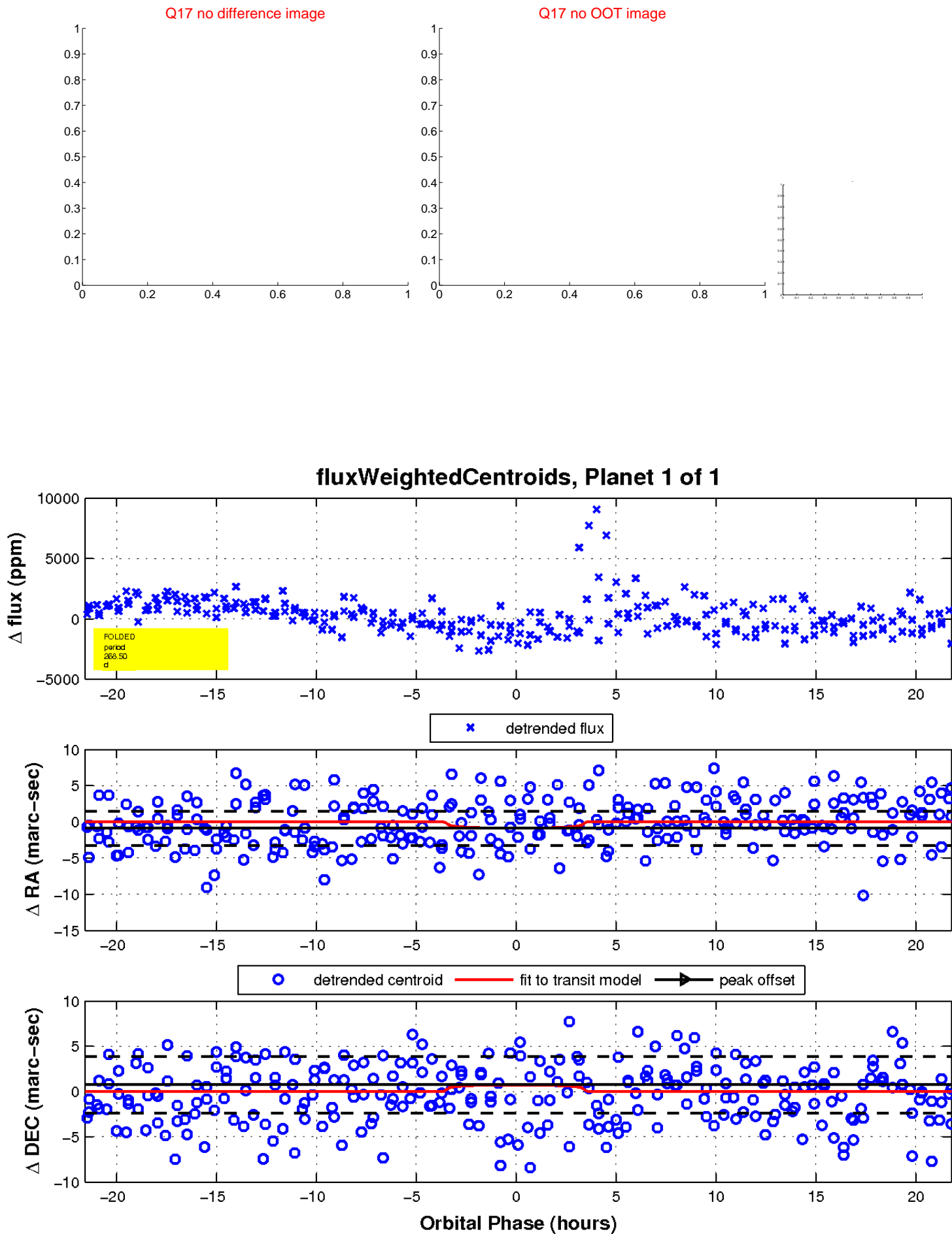
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

