

KIC 006061119

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})
006061119-01	OBS	0846.01	27.807563	158.906108	25366.9	4.224	739.9	689.8	0.79	5862	13.88	22.29

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006061119-01	OBS	PC	0.98	0	0	0	0	NO_COMMENT

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.

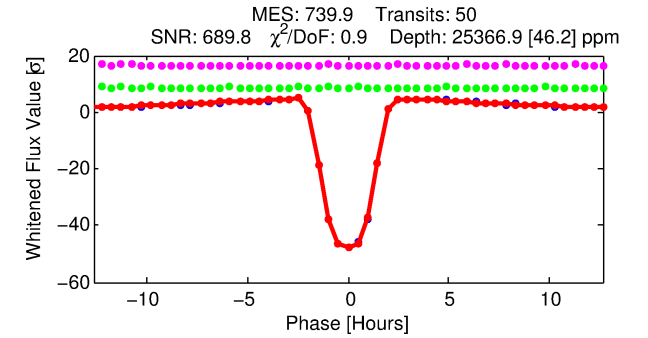
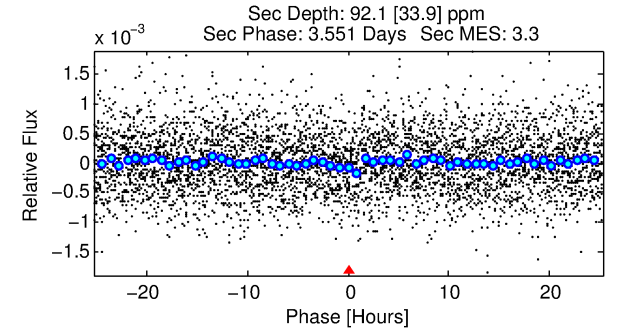
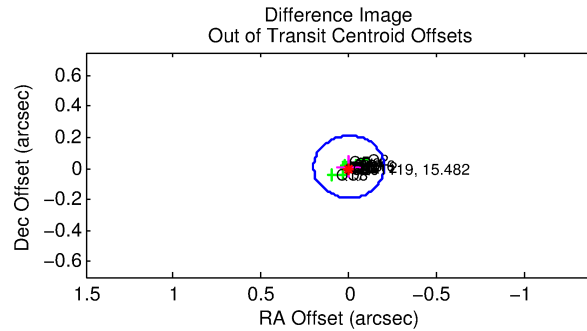
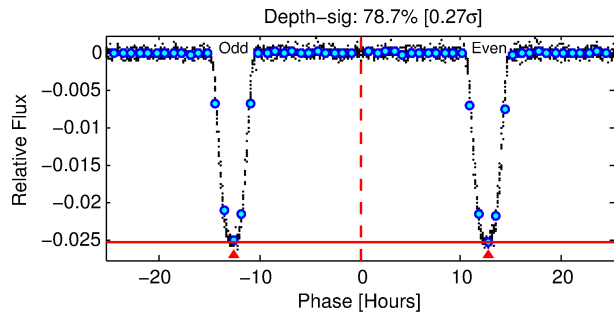
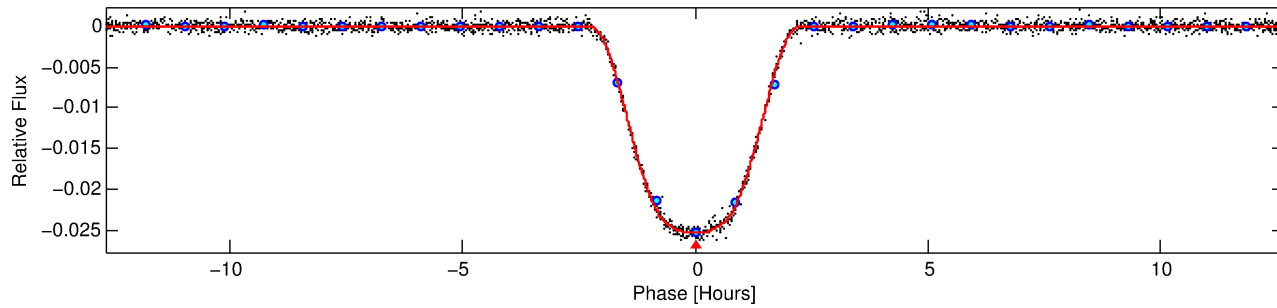
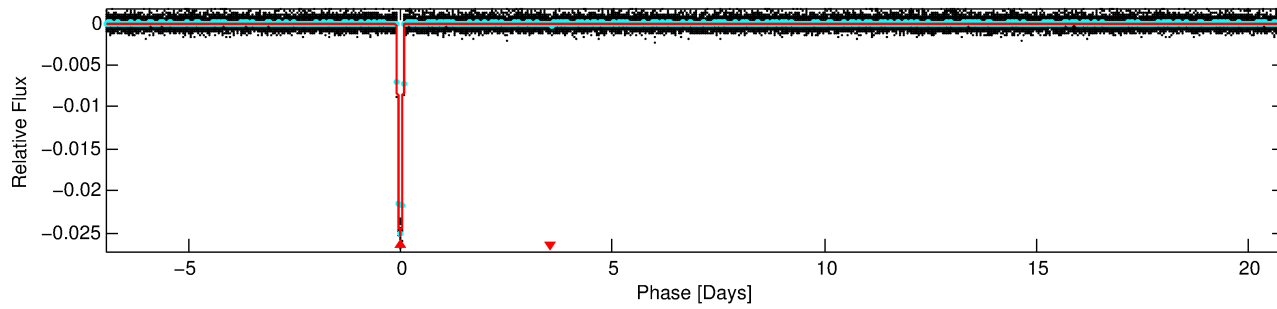
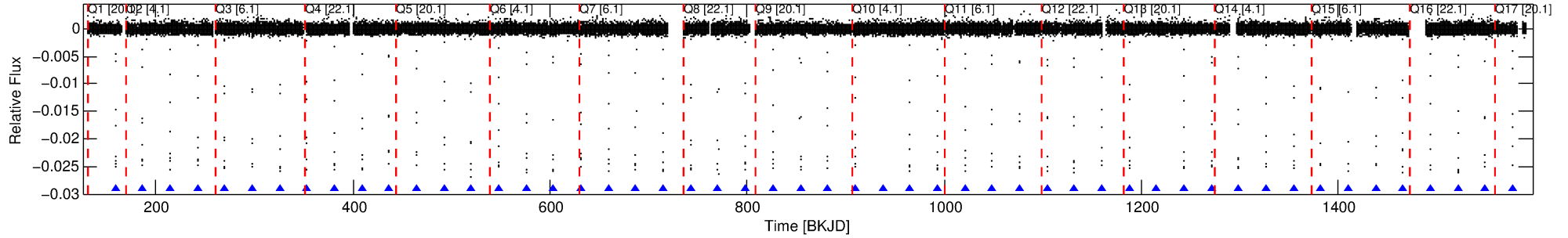
Ephemeris Match Information For 006061119-01

No Significant Match Found

DV One-Page Summary

KIC: 6061119 Candidate: 1 of 1 Period: 27.808 d
KOI: K00846.01 Corr: 0.998

Kp: 15.48 R*: 0.79 Rs Teff: 5862.0 K Logg: 4.58 Fe/H: -0.520



DV Fit Results:

Period = 27.80756 [0.00000] d
Epoch = 158.9061 [0.0001] BKJD
Rp/R* = 0.1620 [0.0003]
a/R* = 43.06 [0.15]
b = 0.79 [0.00]
Seff = 22.29 [7.66]
Teq = 554 [48] K
Rp = 13.88 [3.64] Re
a = 0.1710 [0.0378] AU
Ag = 7.69 [3.76] [1.78σ]
Teffp = 1427 [138] K [5.97σ]

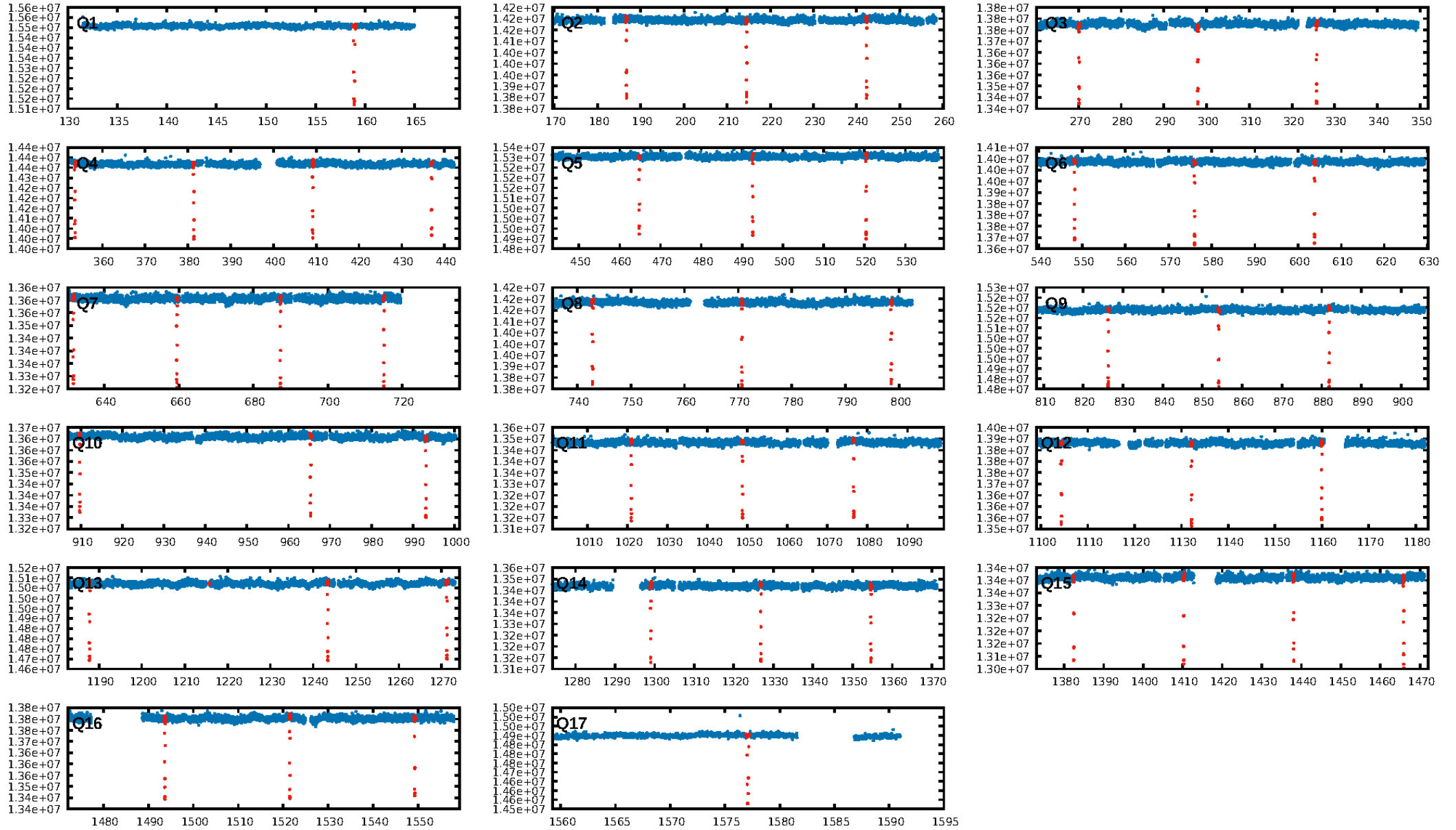
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 5.3%
ModelChiSquareGoF-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [48/48]
GhostDiagnostic-chr: 4.129
Centroid-sig: 0.0%
Centroid-so: 0.198 arcsec [10.21σ]
OotOffset-rm: 0.011 arcsec [0.16σ]
KicOffset-rm: 0.025 arcsec [0.36σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

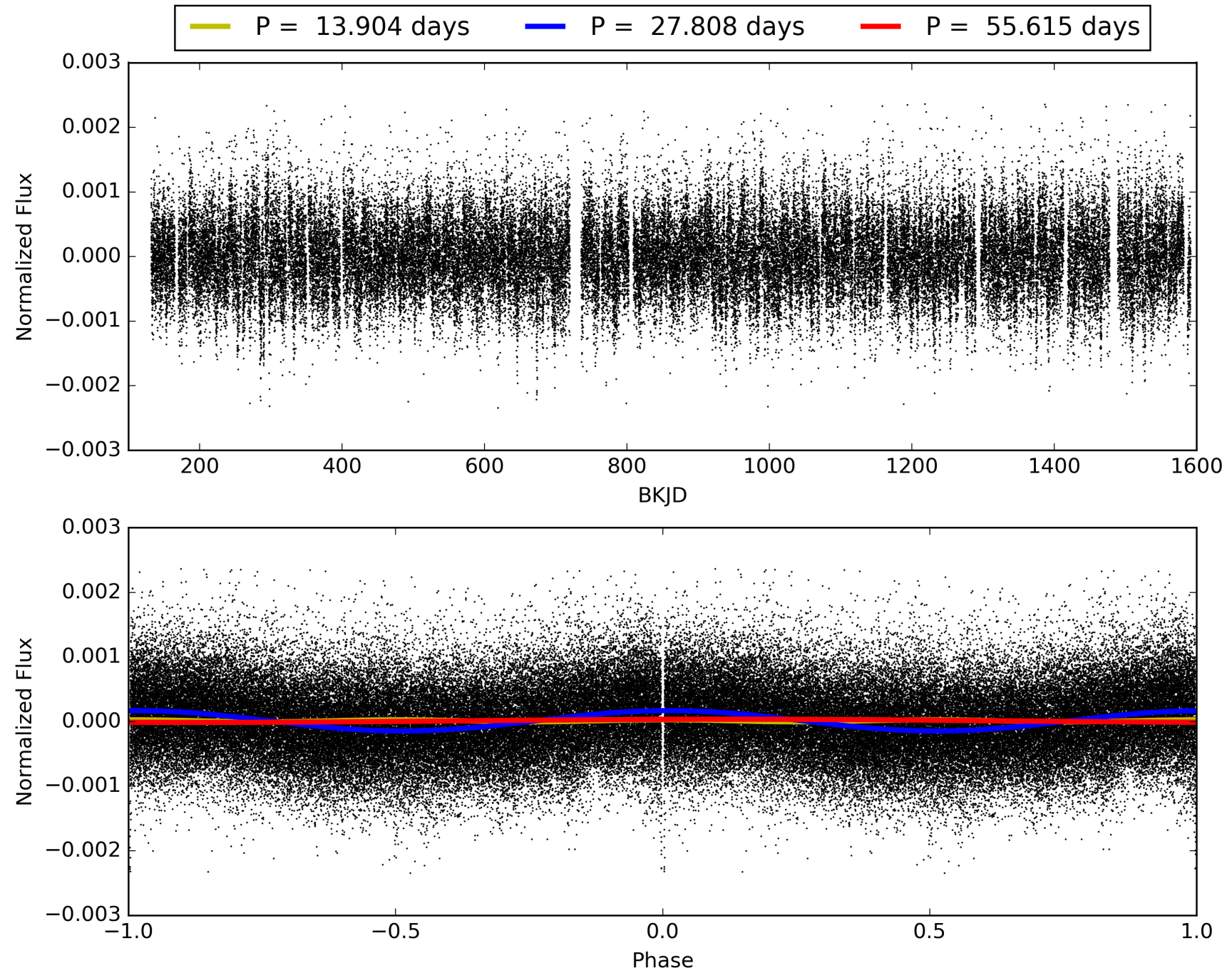
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 11:14:52 Z

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

TCE 006061119-01, PDC Light Curves

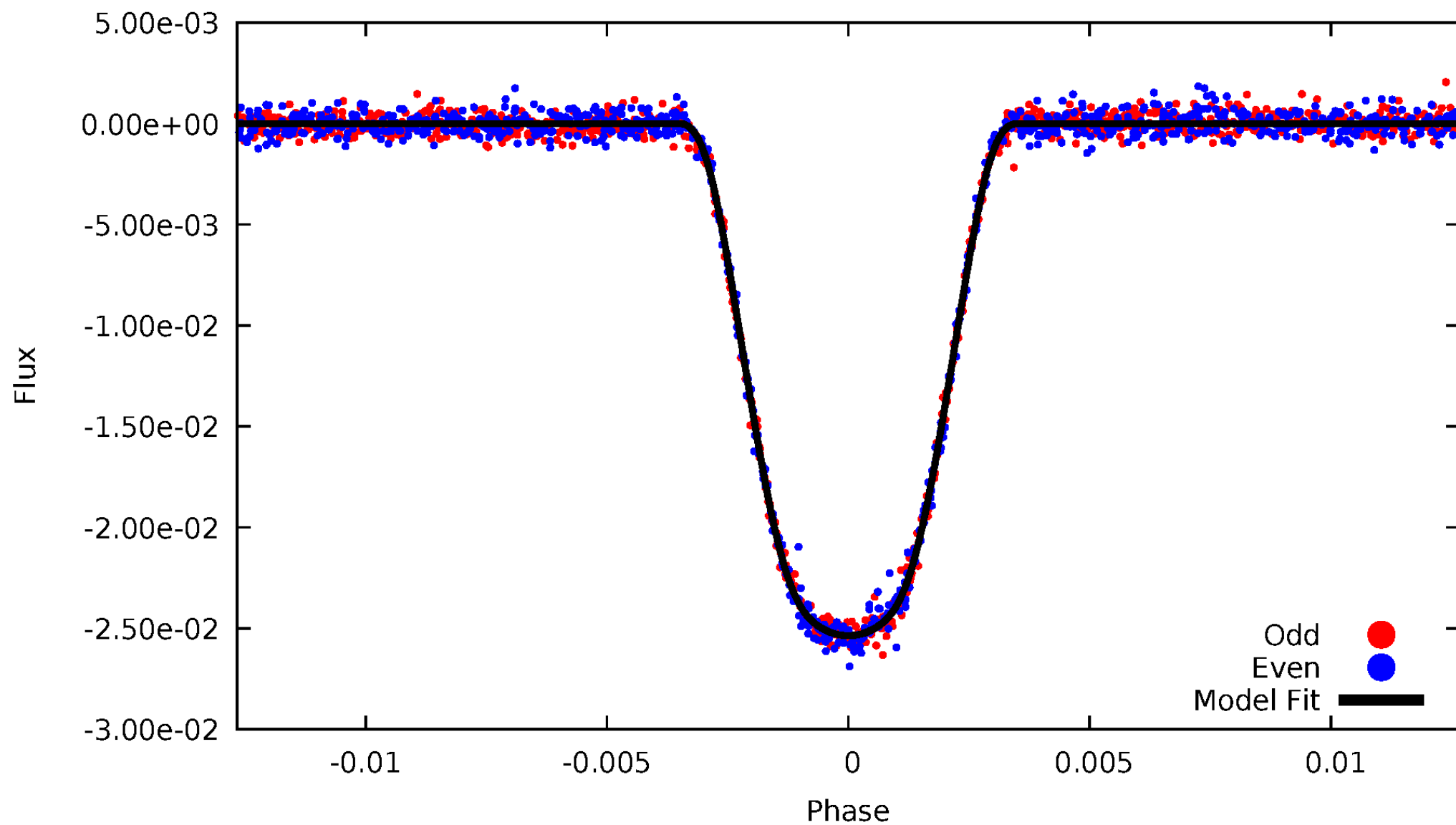


TCE 006061119-01



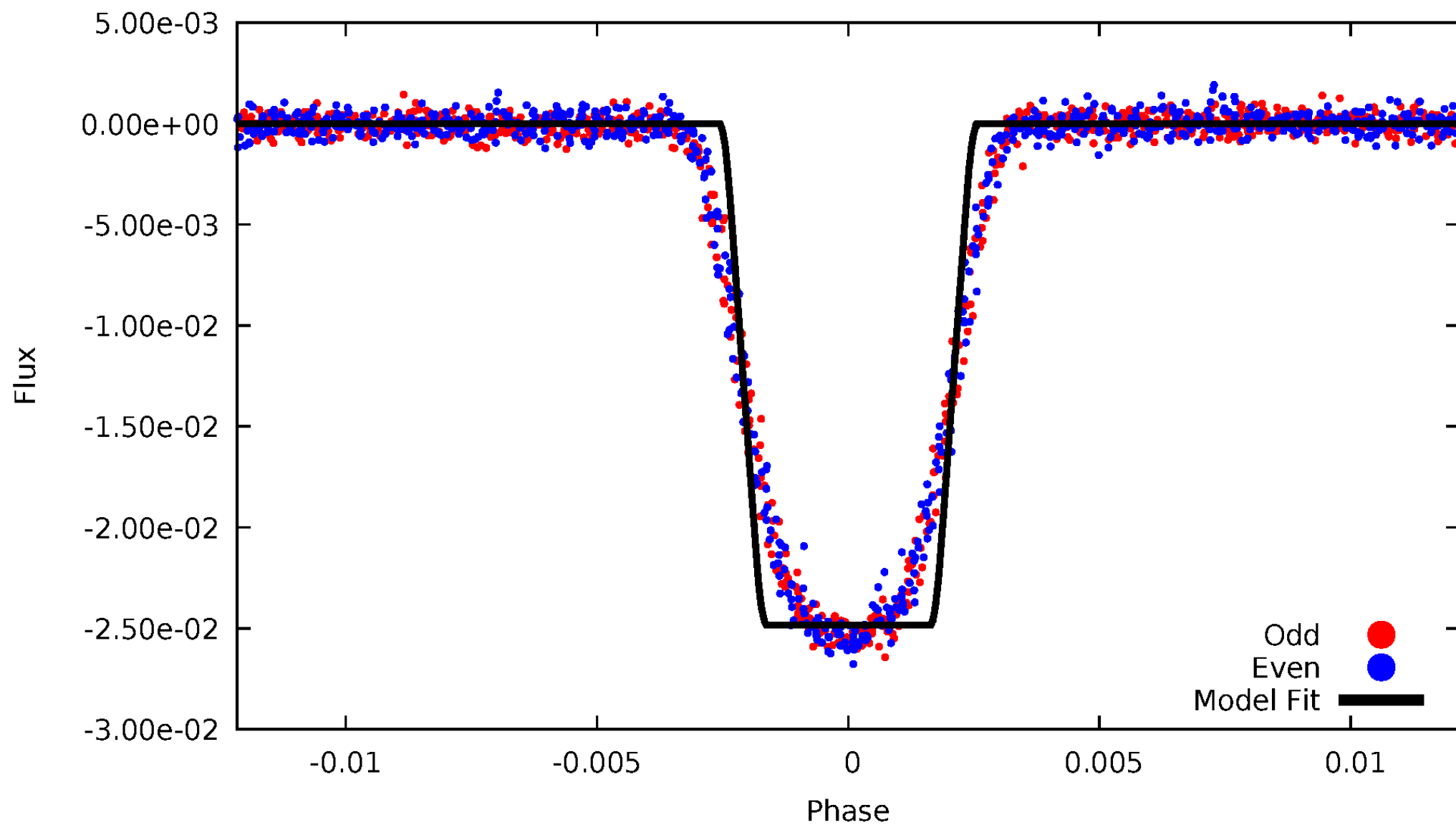
DV Odd/Even

TCE 006061119-01



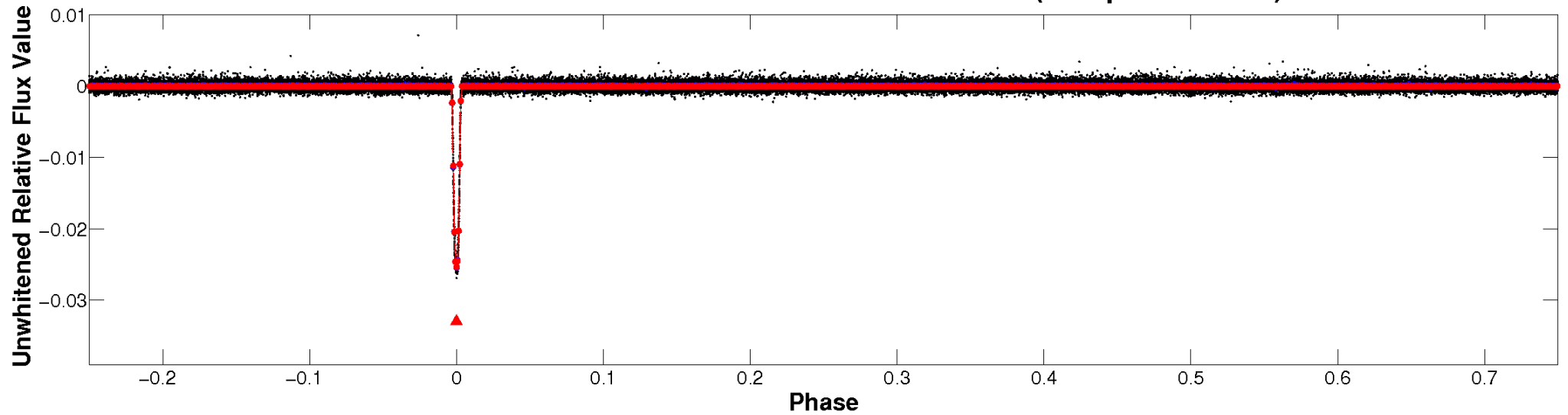
ALT Odd/Even

TCE 006061119-01

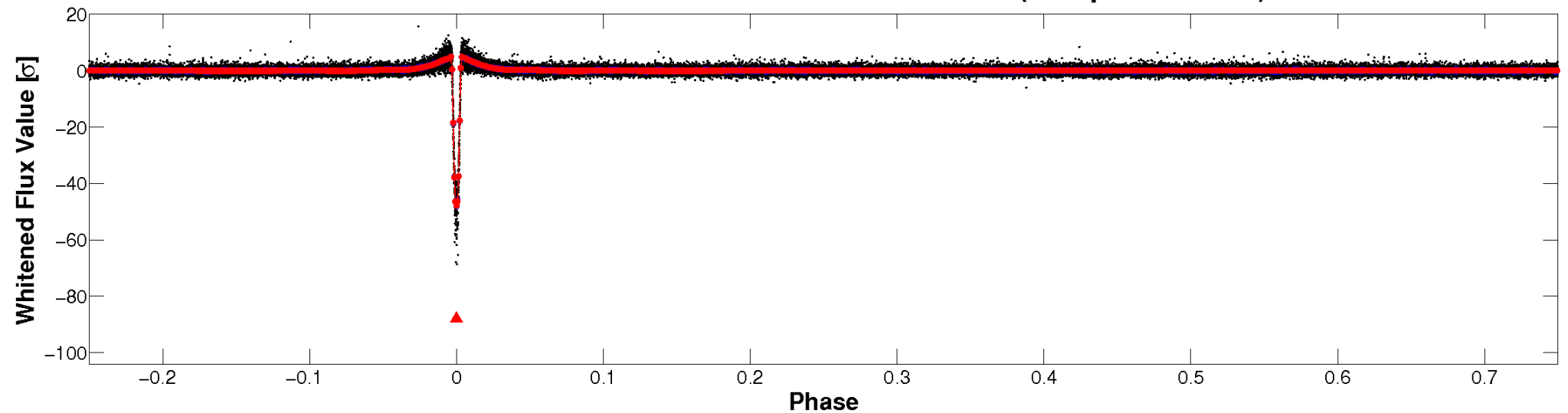


Non-Whitened Vs. Whitened Light Curve

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

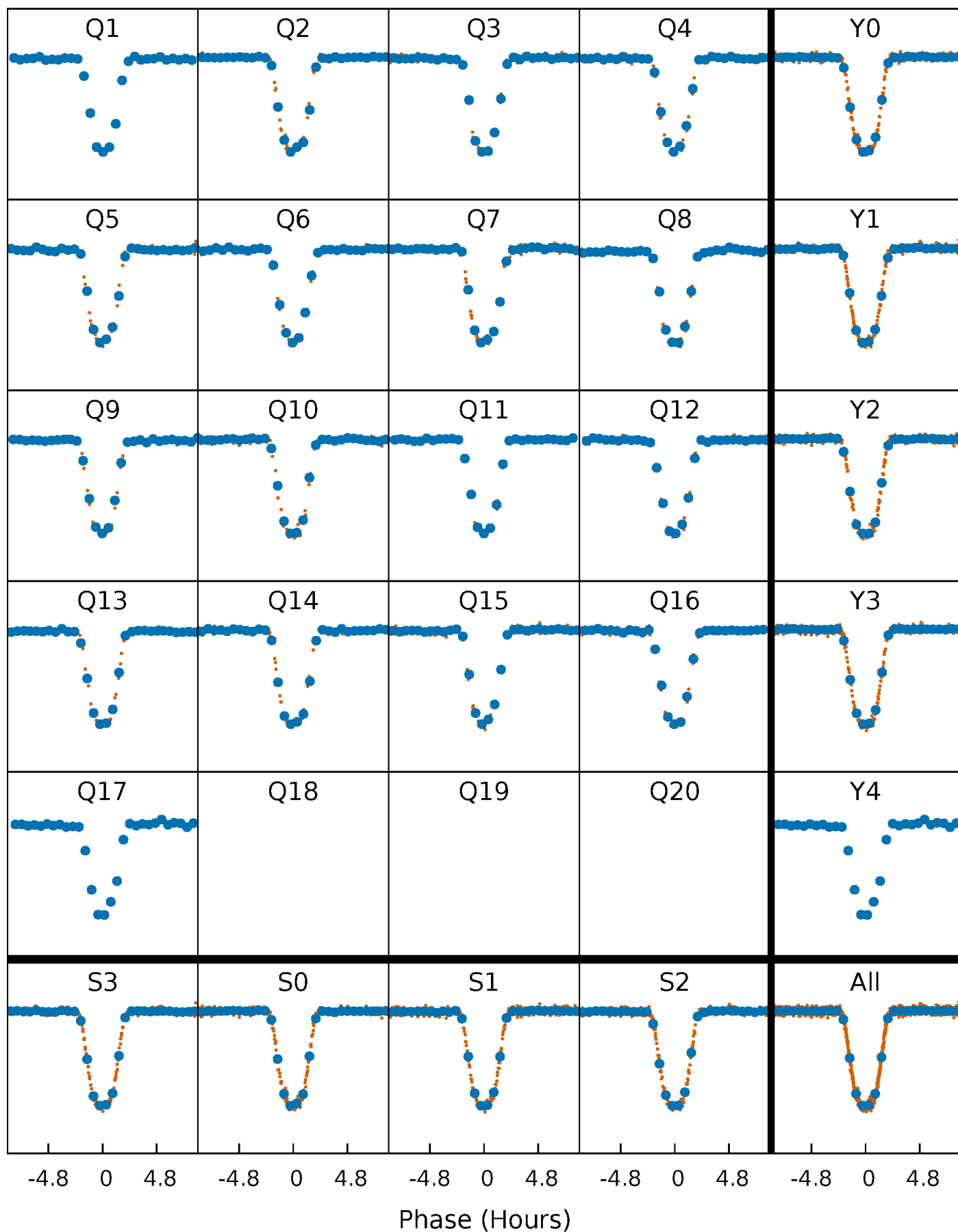


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



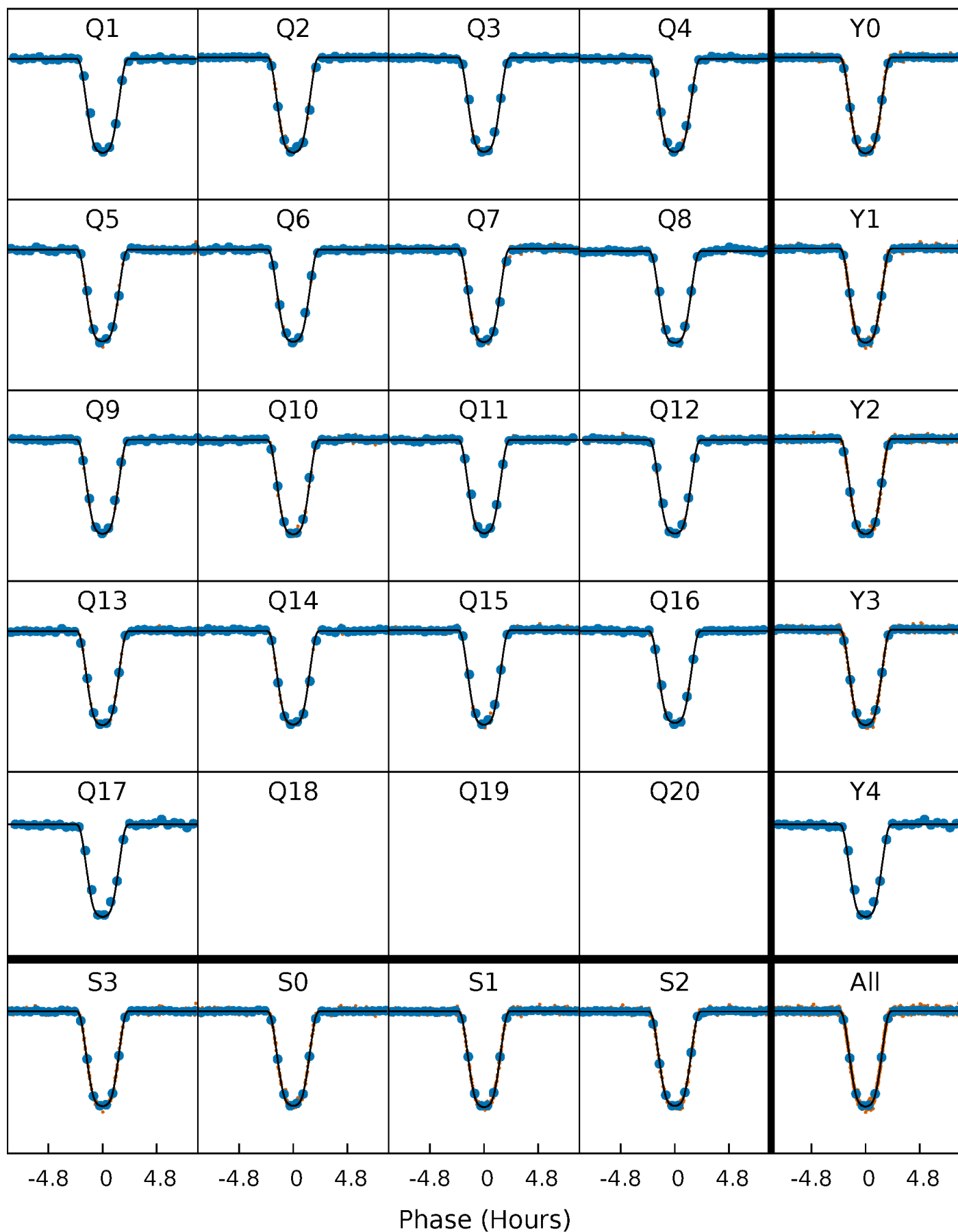
PDC Quarter-Phased Transit Curves

TCE 006061119-01 P= 27.807563 Days $T_0=158.906108$ (BKJD)



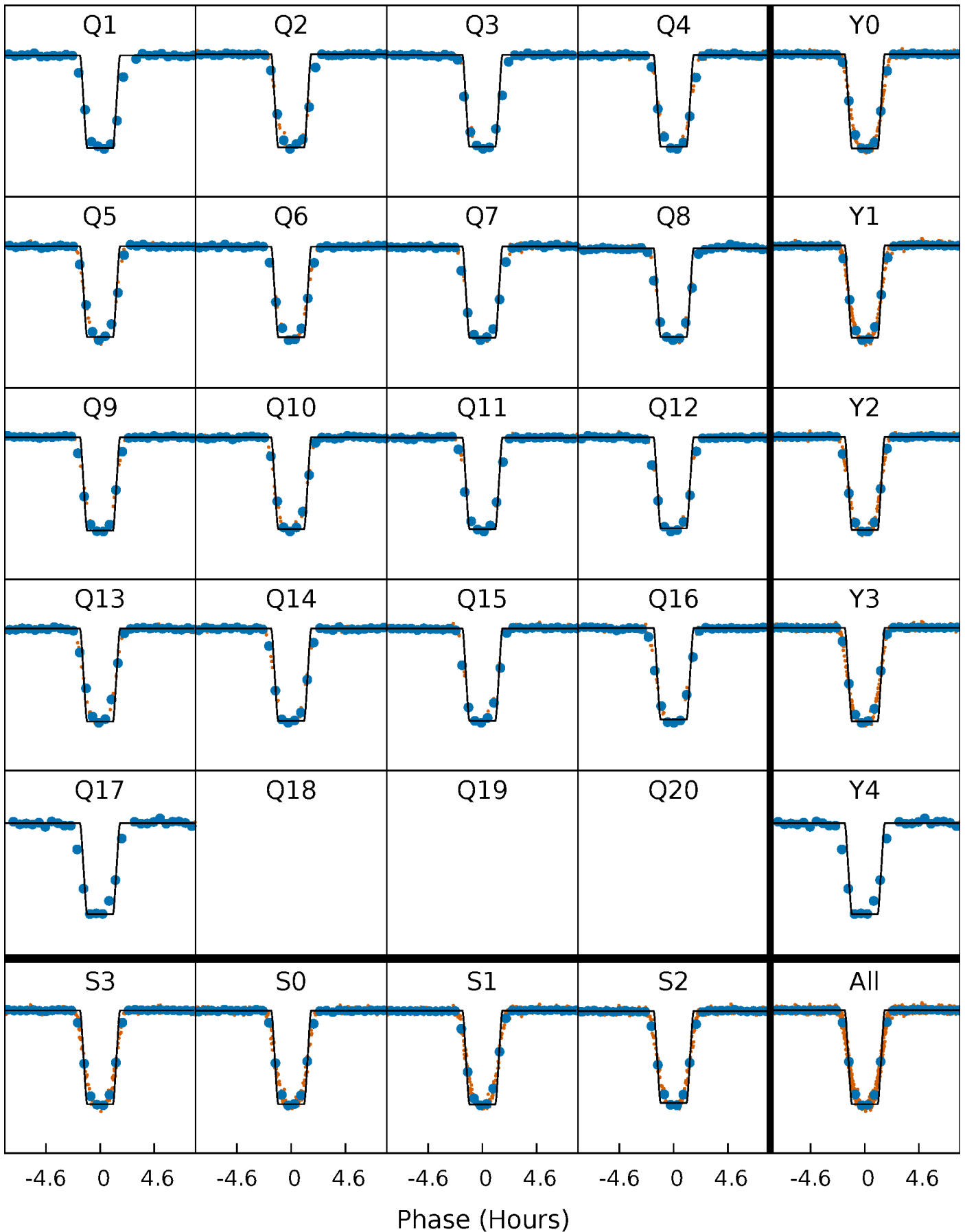
DV Quarter-Phased Transit Curves

TCE 006061119-01 P= 27.807563 Days $T_0=158.906108$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

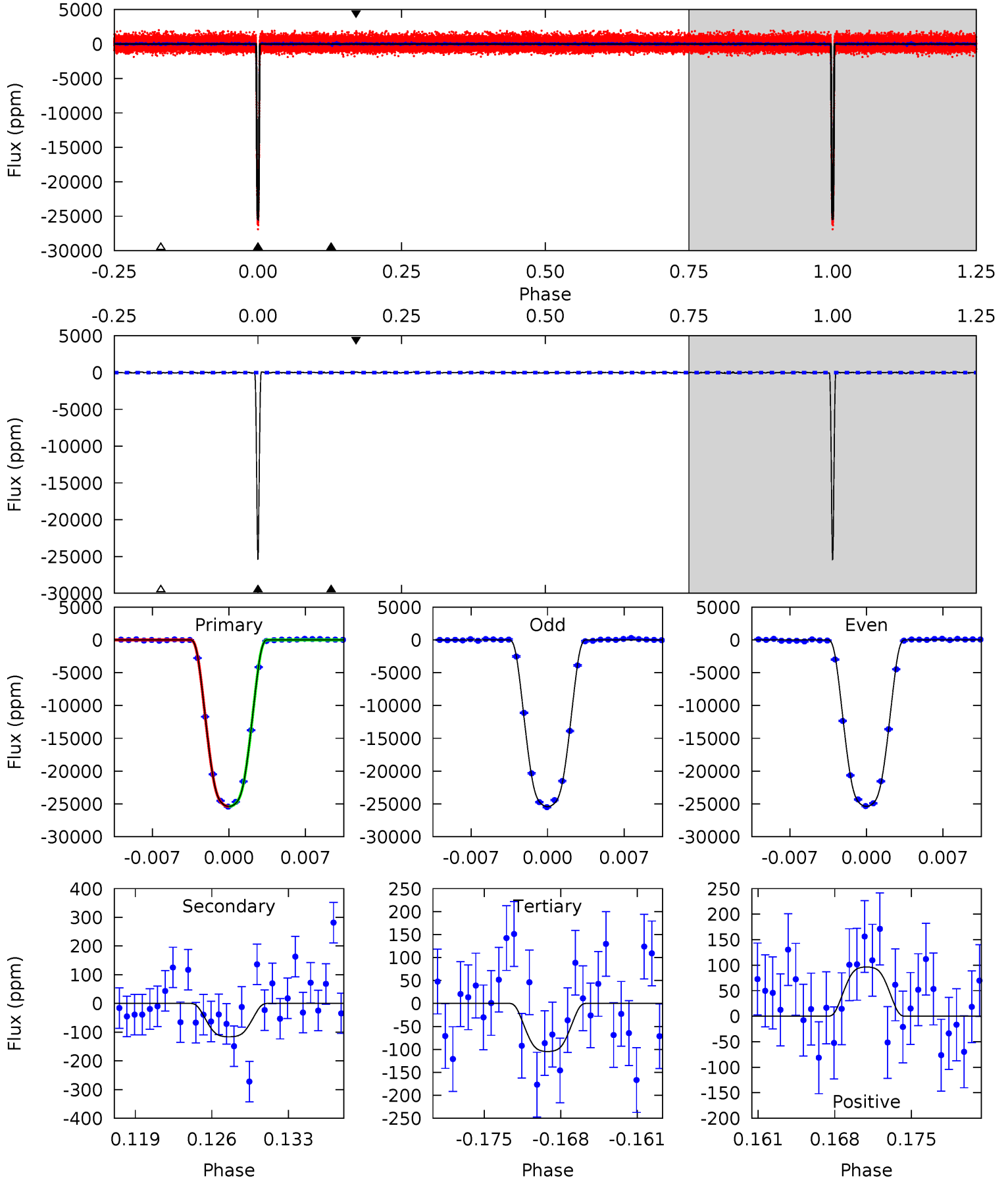
TCE 006061119-01 P= 27.807737 Days $T_0=158.901742$ (BKJD)



DV Model-Shift Uniqueness Test

006061119-01, P = 27.807563 Days, E = 131.098545 Days

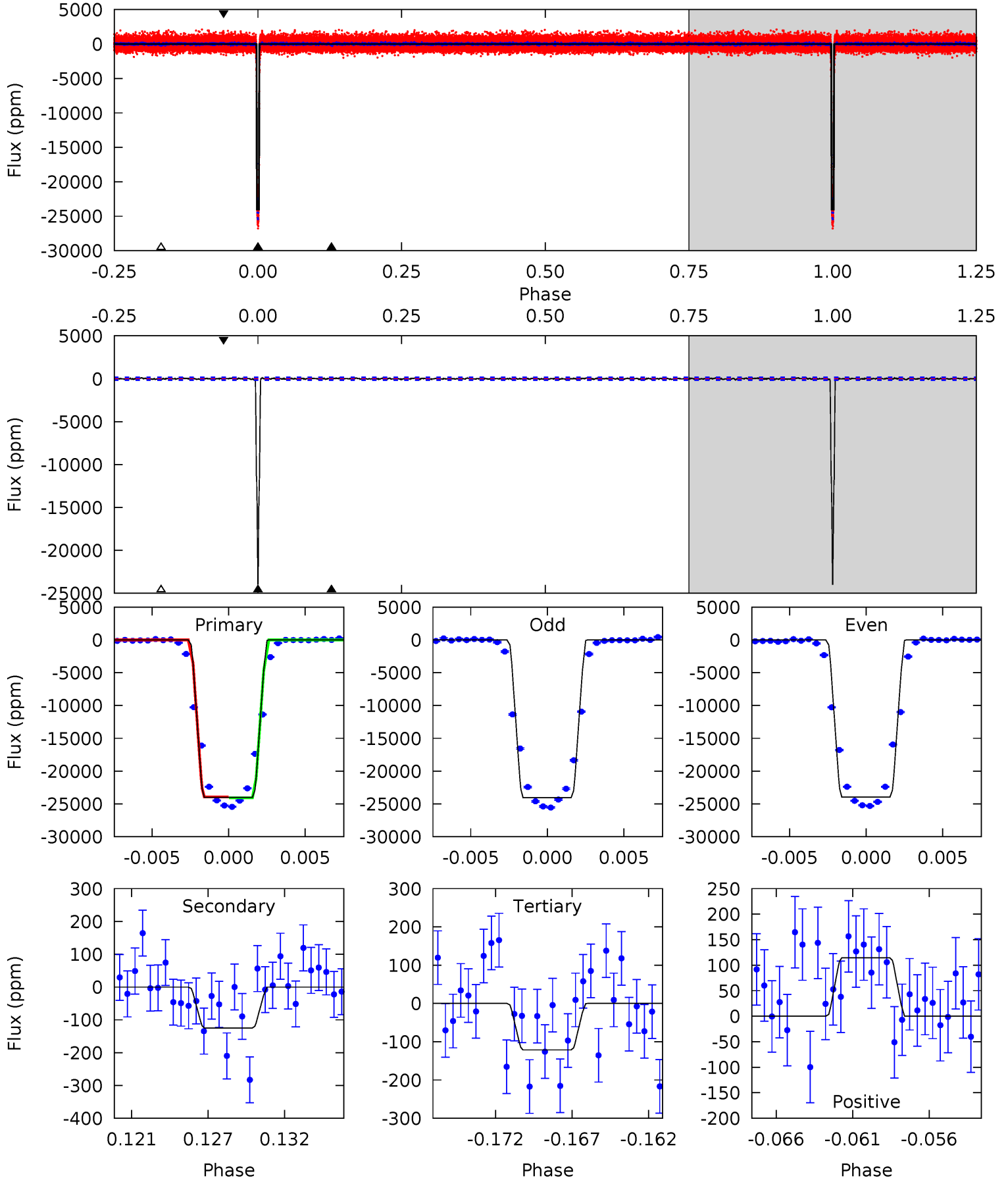
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1143	5.24	4.71	4.35	5.09	2.70	1.40	1139	1139	0.53	0.89	0.71	1.00	0.00	0.31



Alt Model-Shift Uniqueness Test

006061119-01, $P = 27.807737$ Days, $E = 131.094005$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
780.8	4.06	3.95	3.71	5.16	2.80	1.08	776.9	777.1	0.12	0.35	1.15	1.00	0.00	2.33



Stellar Parameters For KIC 006061119

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5862^{+177}_{-177}	$4.584^{+0.044}_{-0.176}$	$-0.520^{+0.300}_{-0.300}$	$0.785^{+0.206}_{-0.069}$	$0.865^{+0.088}_{-0.096}$	$2.517^{+0.434}_{-1.180}$
	+3%/-3%	+1%/-4%	+58%/-58%	+26%/-9%	+10%/-11%	+17%/-47%
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 006061119-01 / KOI 0846.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-116 ± 22	$14.19^{+1.94}_{-0.91}$	790^{+46}_{-36}	2388^{+59}_{-72}	$8.777^{+2.276}_{-2.326}$
Alt.	-125 ± 31	$13.63^{+2.10}_{-0.71}$	790^{+53}_{-38}	2425^{+83}_{-81}	$9.980^{+3.386}_{-2.900}$

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 $A_{obs} \gg 1.0$

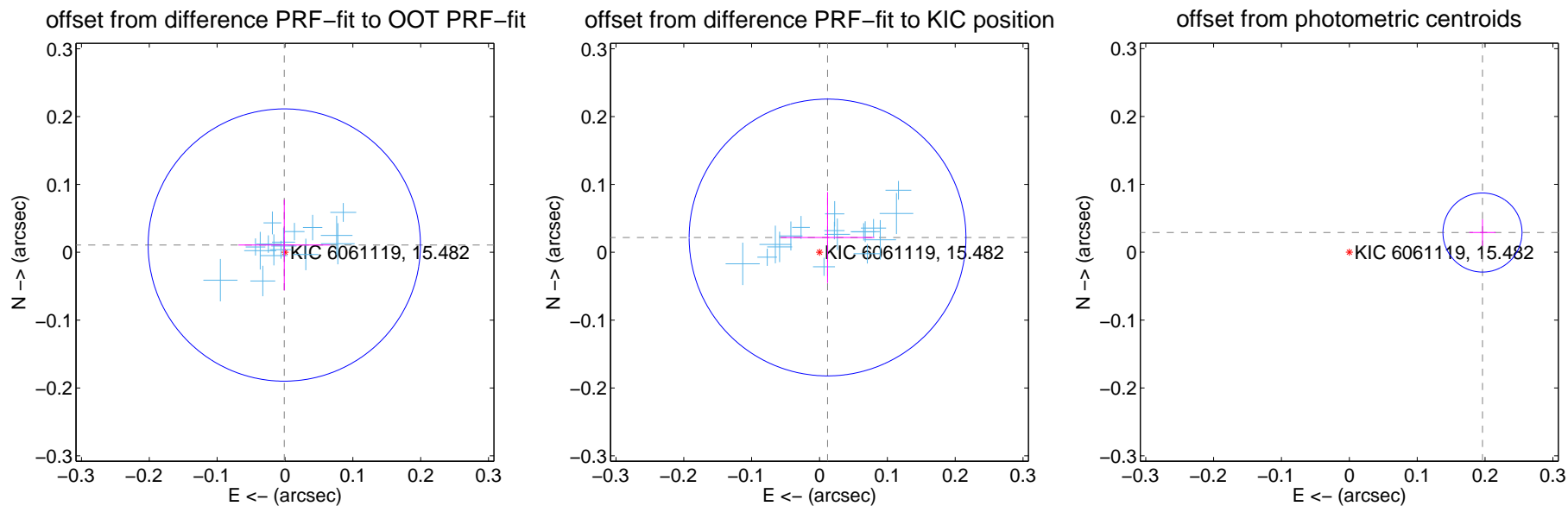
DV Centroid Data

Supplemental centroid analysis for 006061119-01. Kepler magnitude: 15.48. Transit SNR 689.84

There are 17 quarters with good PRF difference image offsets

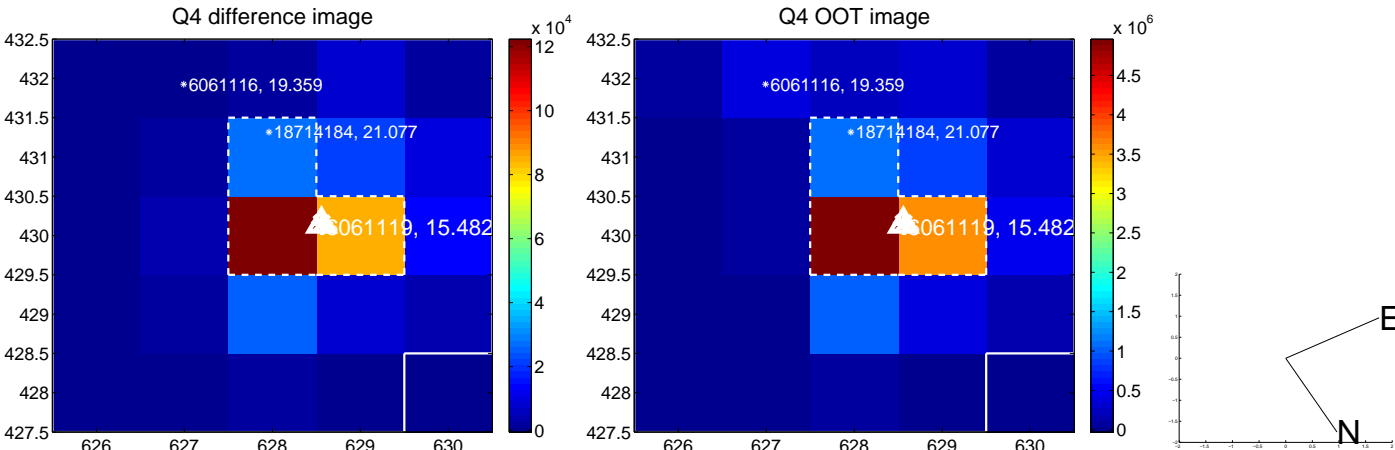
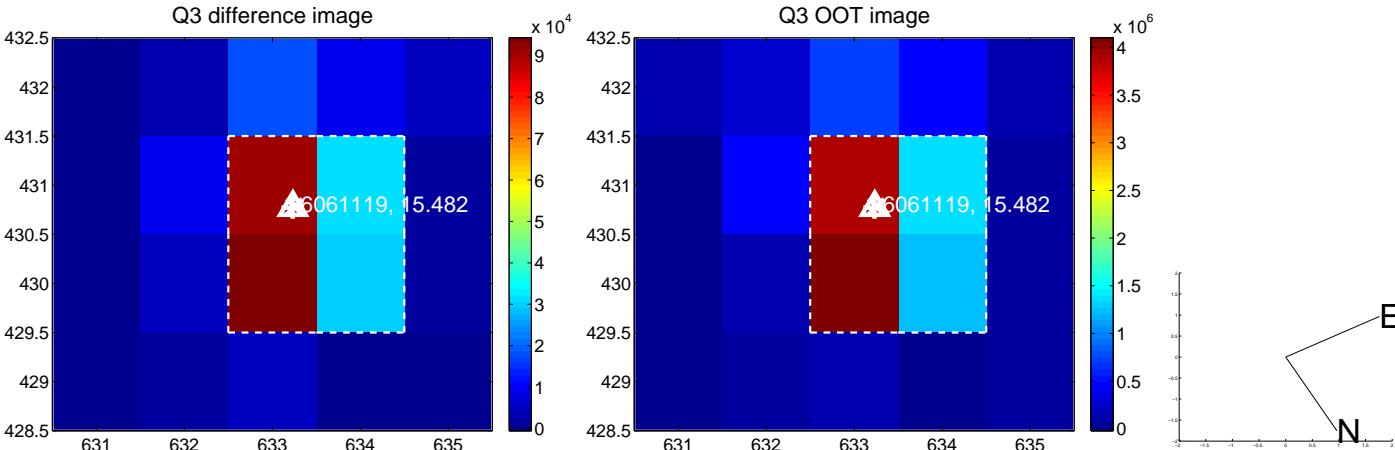
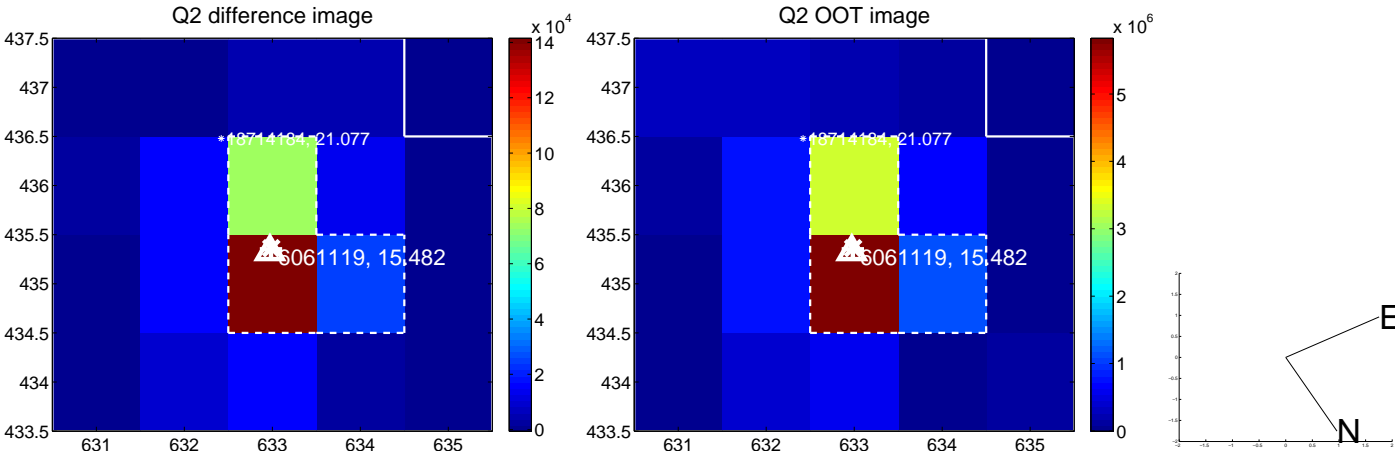
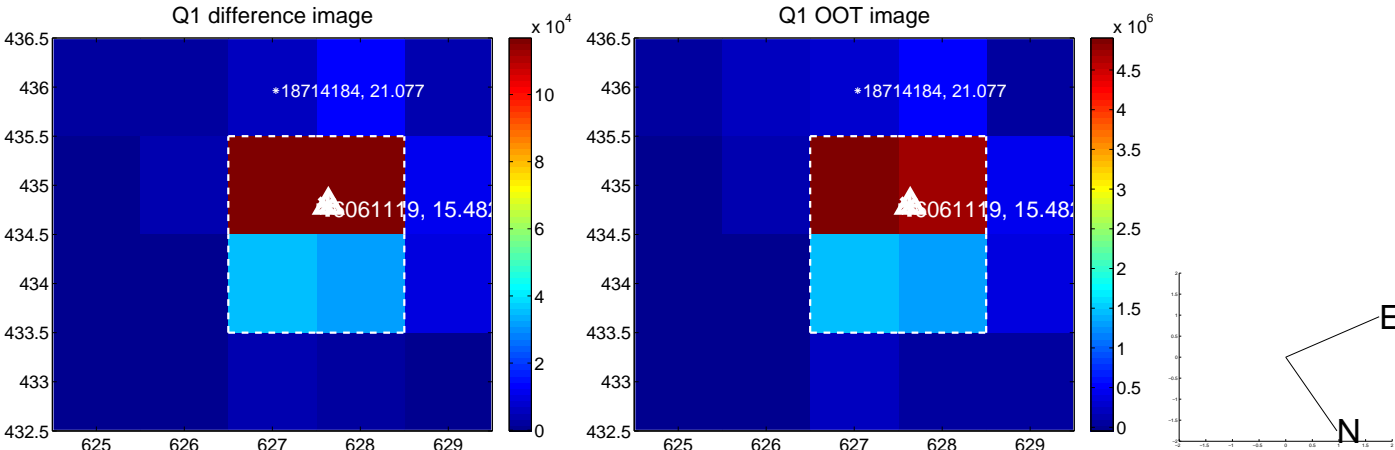
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.011 ± 0.067	0.16	0.001 ± 0.068	0.011 ± 0.067
PRF-fit source offset from KIC position	0.025 ± 0.068	0.36	-0.012 ± 0.069	0.022 ± 0.067
photometric centroid source offset	0.20 ± 0.02	10.21	-0.20 ± 0.02	0.03 ± 0.02

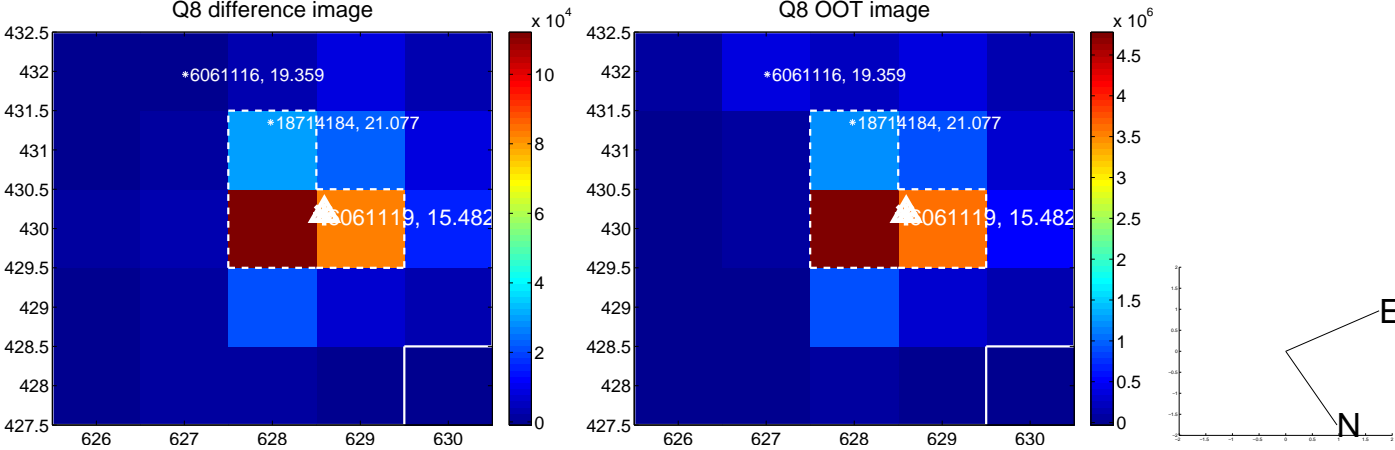
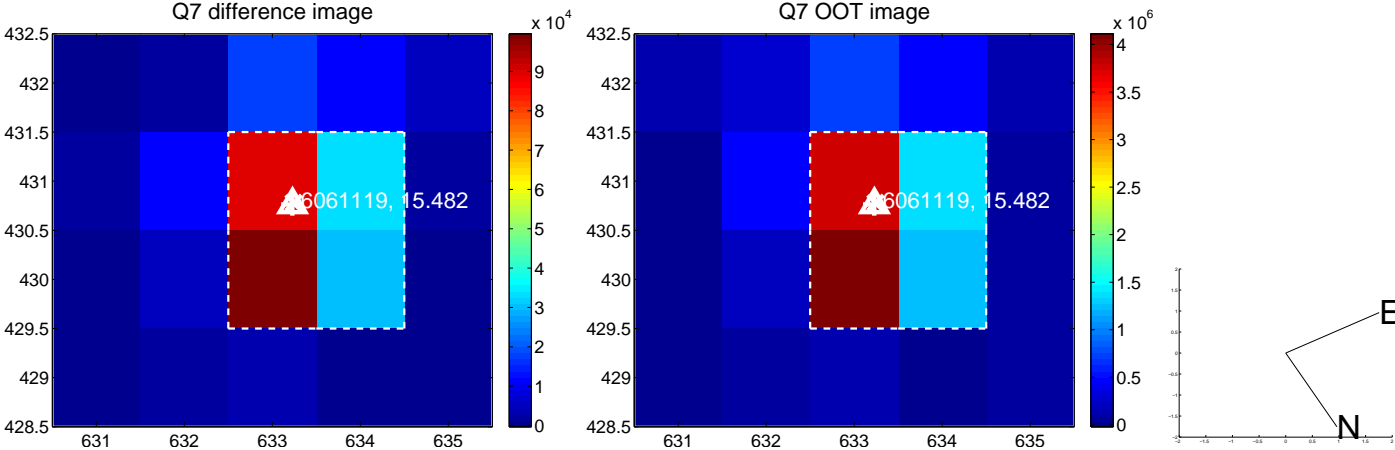
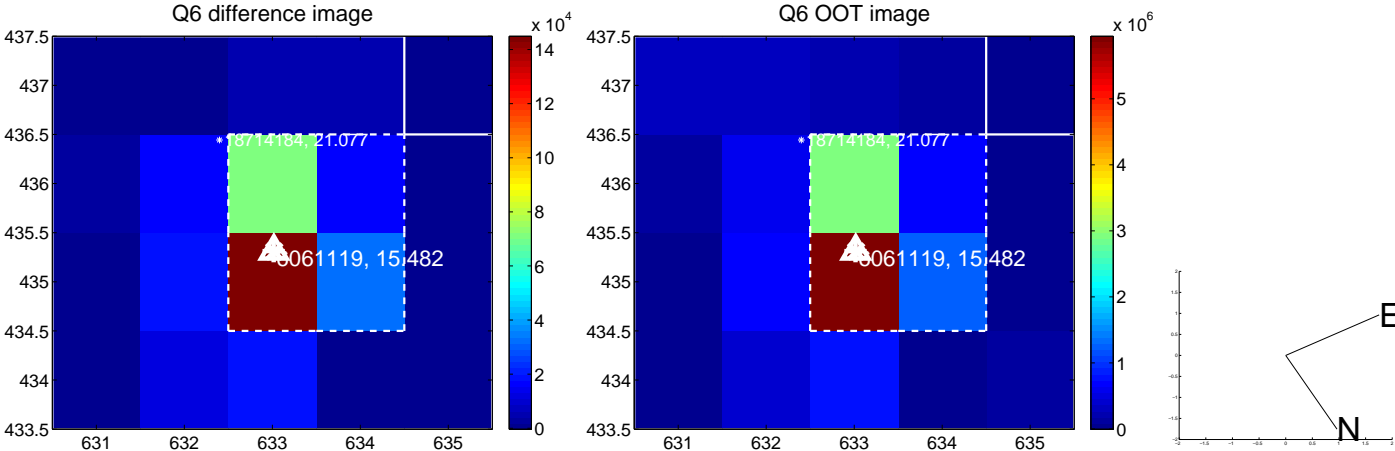
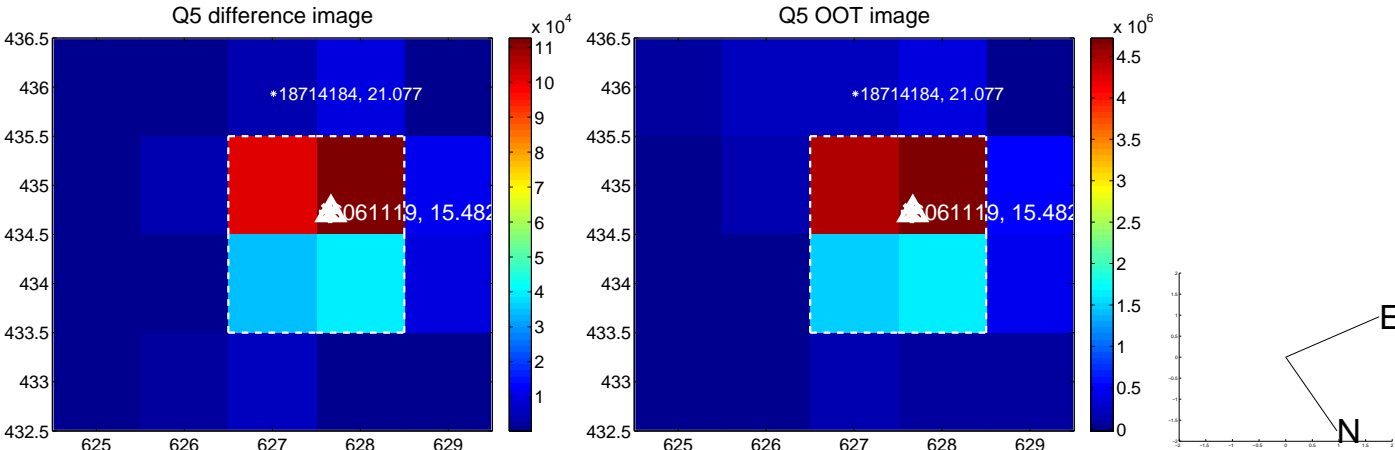


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

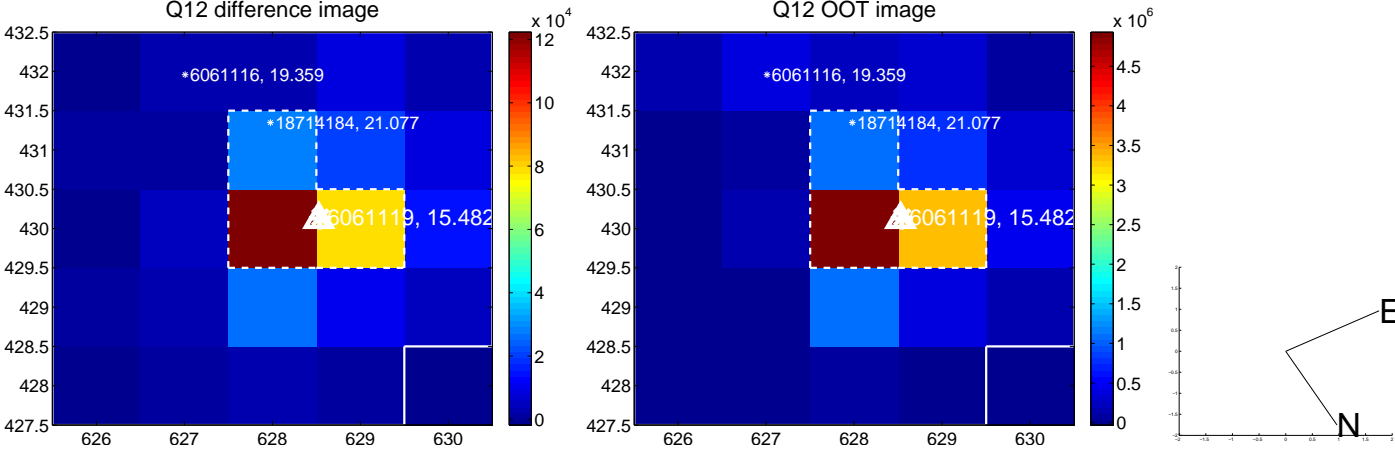
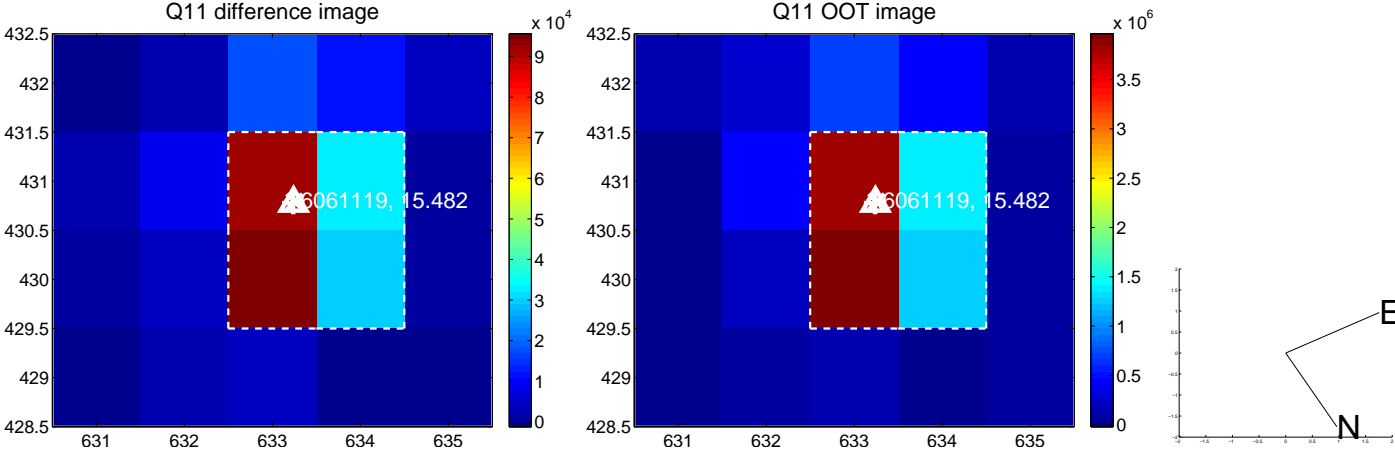
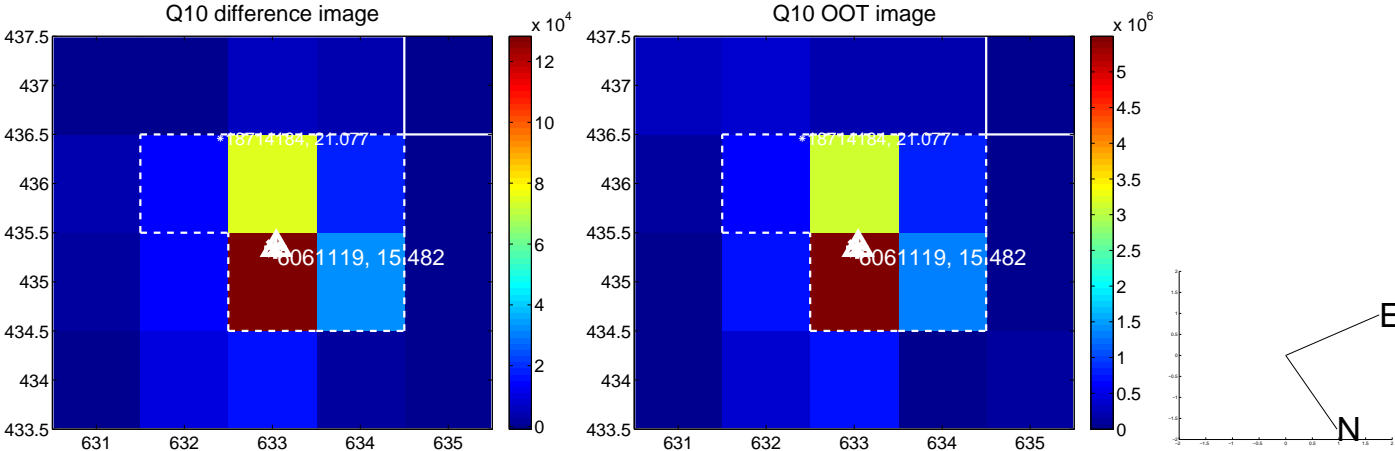
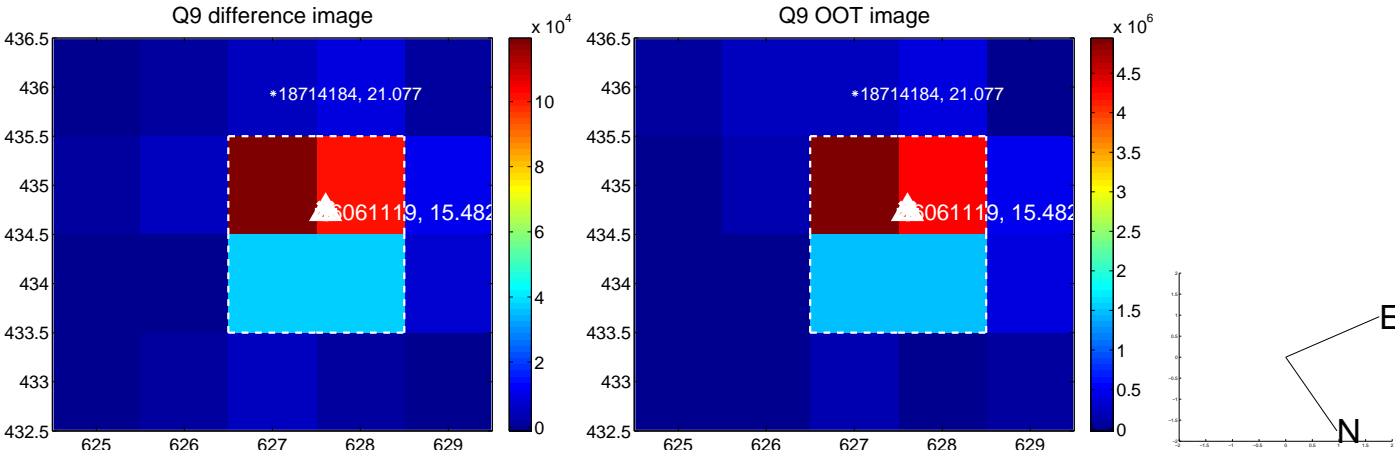
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



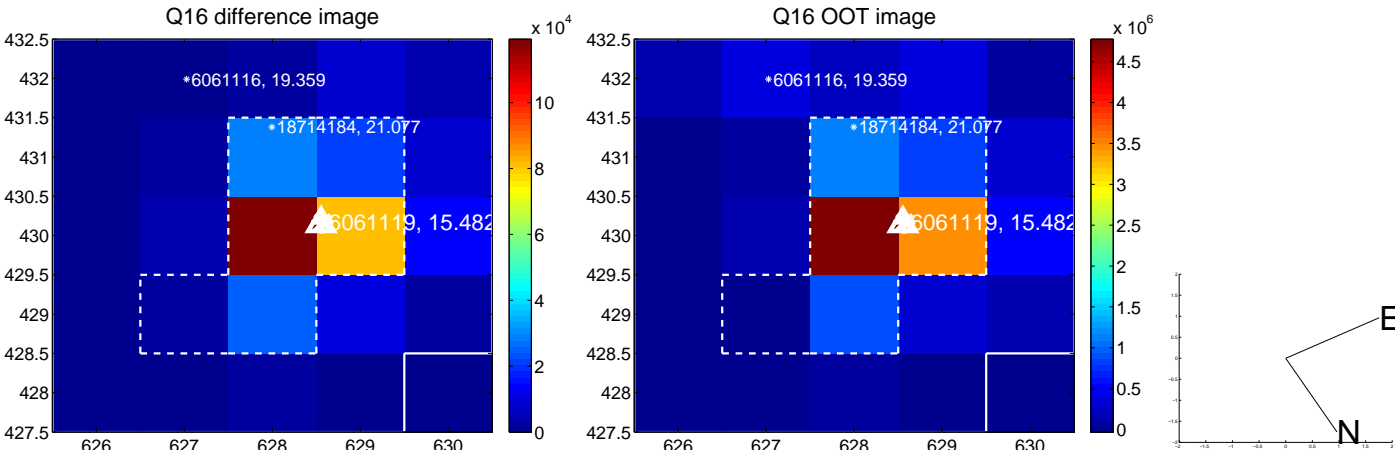
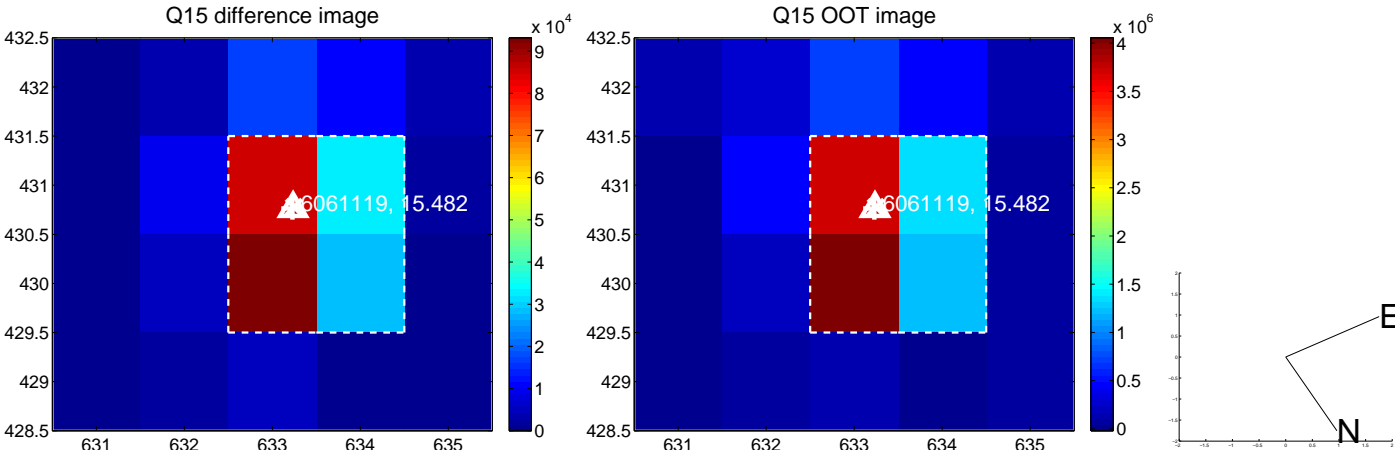
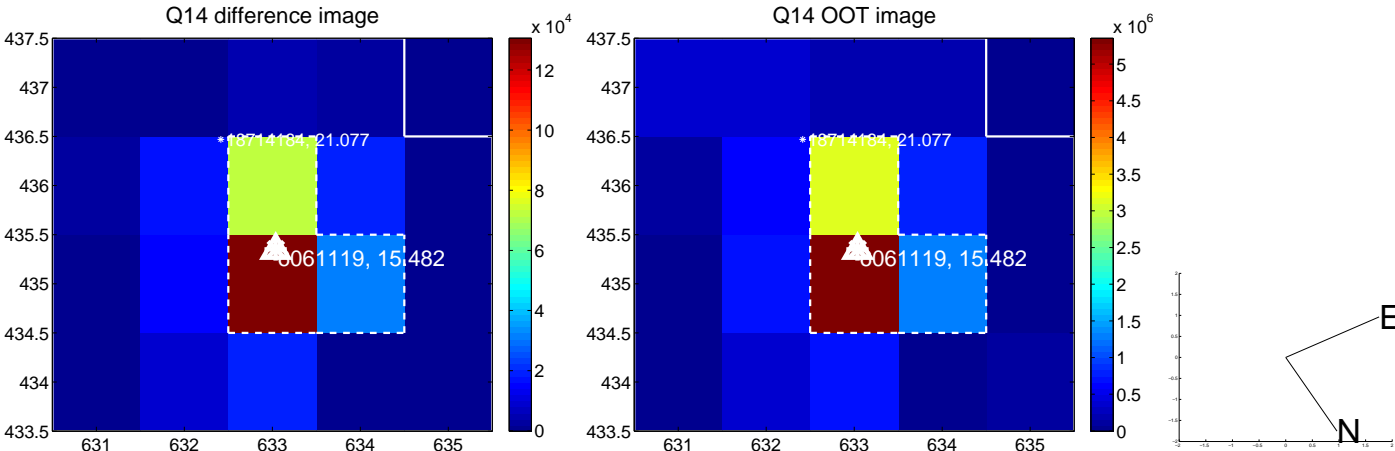
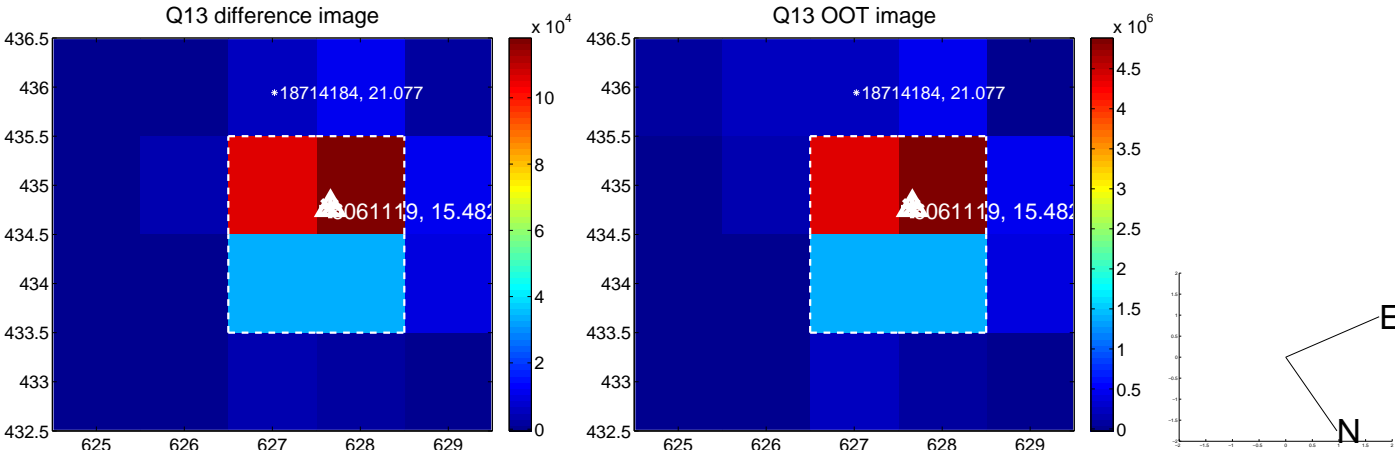
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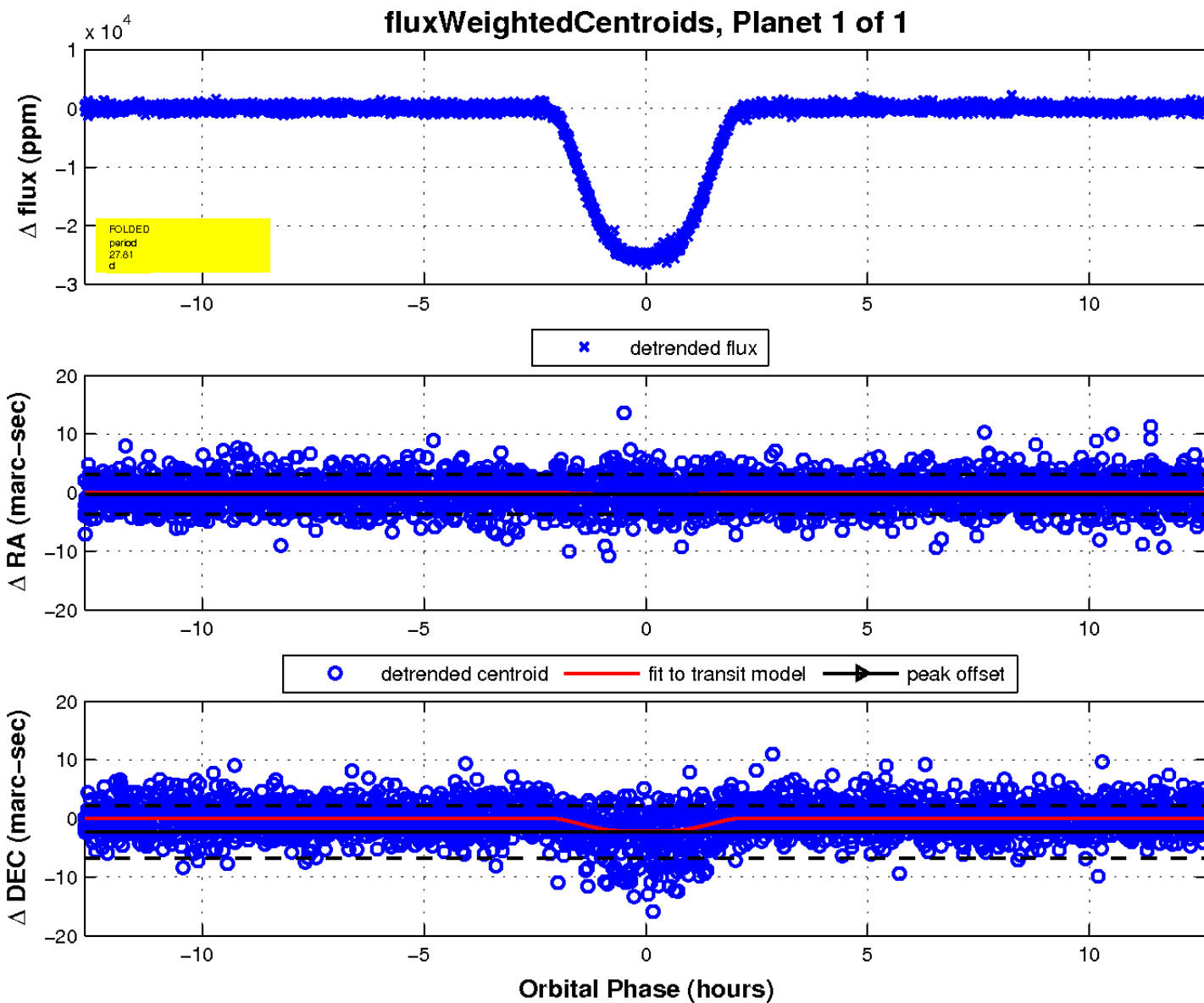
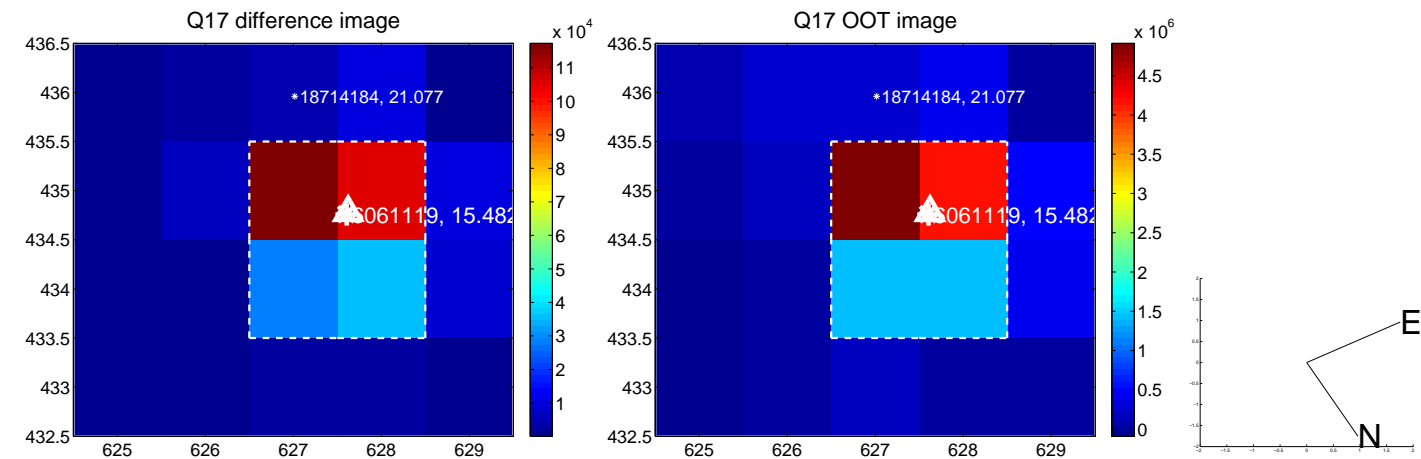
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UKIRT Image

Declination

