

KIC 006290382

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})
006290382-01	OBS	3869.01	6.128141	137.030309	2081.1	2.600	37.4	48.1	1.67	7245	13.95	1241.37
006290382-02	OBS	No	6.128133	133.990619	875.9	2.508	17.9	21.6	1.67	7245	9.27	1241.37
006290382-03	OBS	No	0.777670	132.009030	99.8	2.533	9.8	8.3	1.67	7245	1.93	19466.06

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006290382-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
006290382-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006290382-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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

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

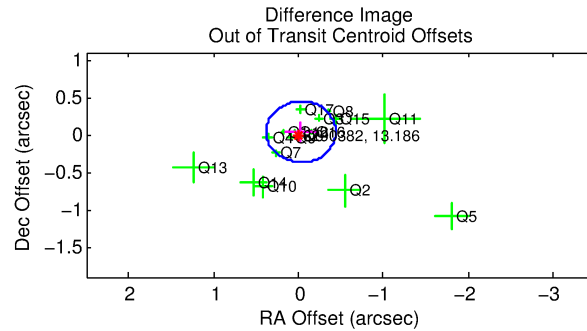
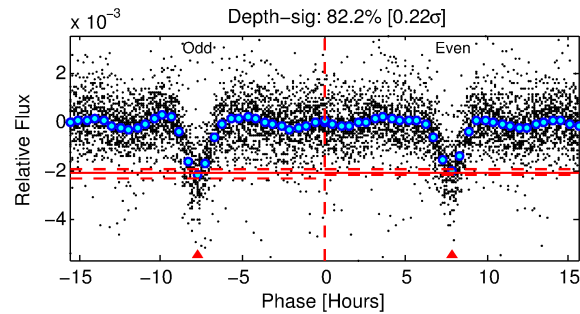
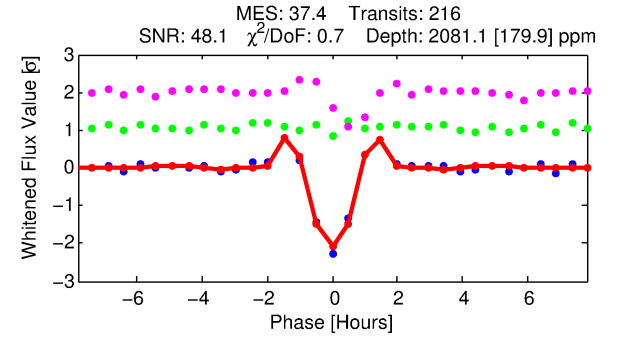
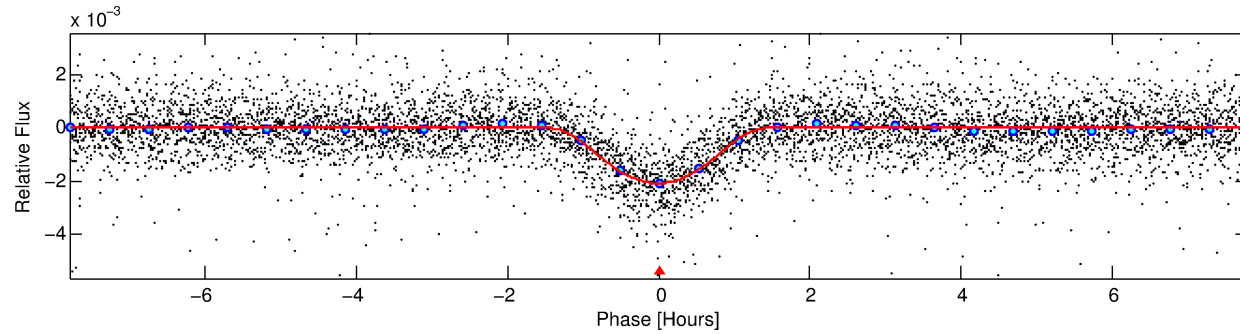
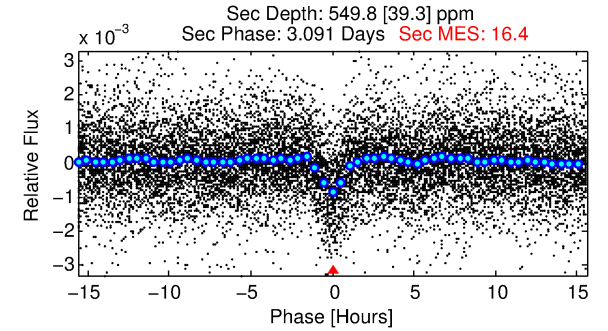
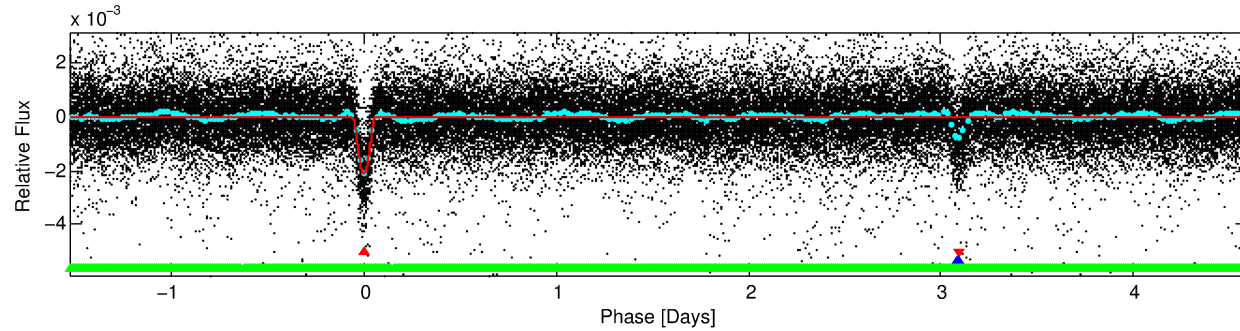
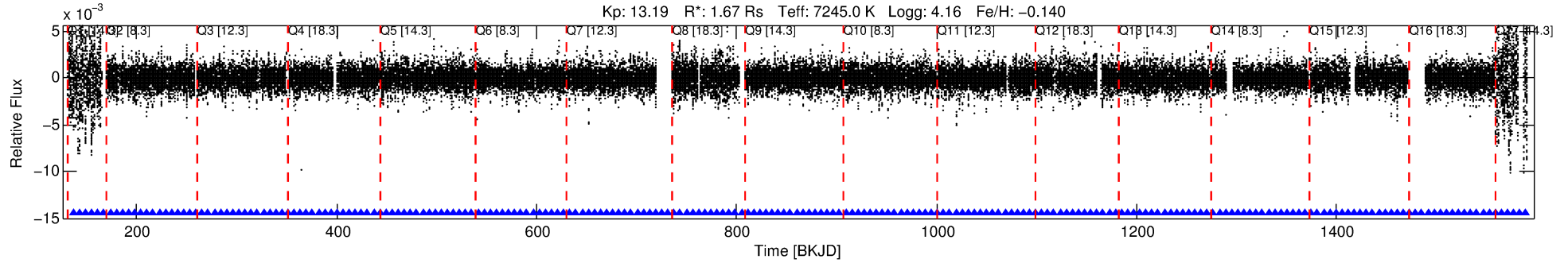
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006290382-01

No Significant Match Found

DV One-Page Summary

KIC: 6290382 Candidate: 1 of 3 Period: 6.128 d
KOI: K03869.01 Corr: 0.879



DV Fit Results:

Period = 6.12814 [0.00001] d
Epoch = 137.0303 [0.0006] BKJD
Rp/R* = 0.0767 [0.0202]
a/R* = 7.26 [0.43]
b = 1.00 [0.02]
Seff = 1241.37 [519.06]
Teq = 1514 [158] K
Rp = 13.95 [5.93] Re
a = 0.0743 [0.0200] AU
Ag = 8.59 [5.60] [1.35σ]
Teffp = 4006 [564] K [4.26σ]

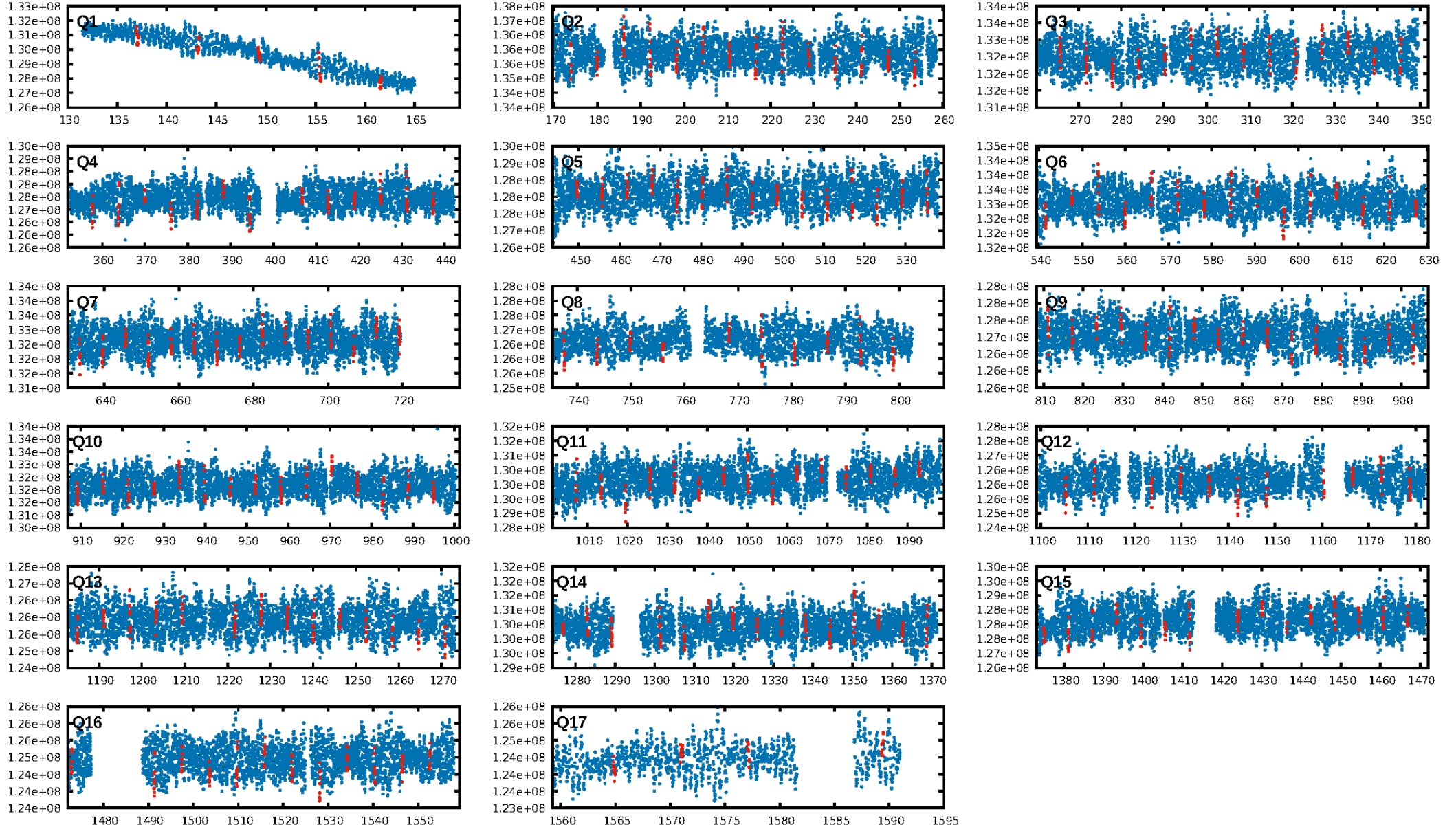
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.22e-231
RollingBand-fgt: 1.00 [207/207]
GhostDiagnostic-chr: 1.487
Centroid-sig: 0.0%
Centroid-so: 0.284 arcsec [8.77σ]
OotOffset-rm: 0.050 arcsec [0.37σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.029 arcsec [0.20σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.65 [11/17]
DiffImageOverlap-fno: 0.94 [16/17]

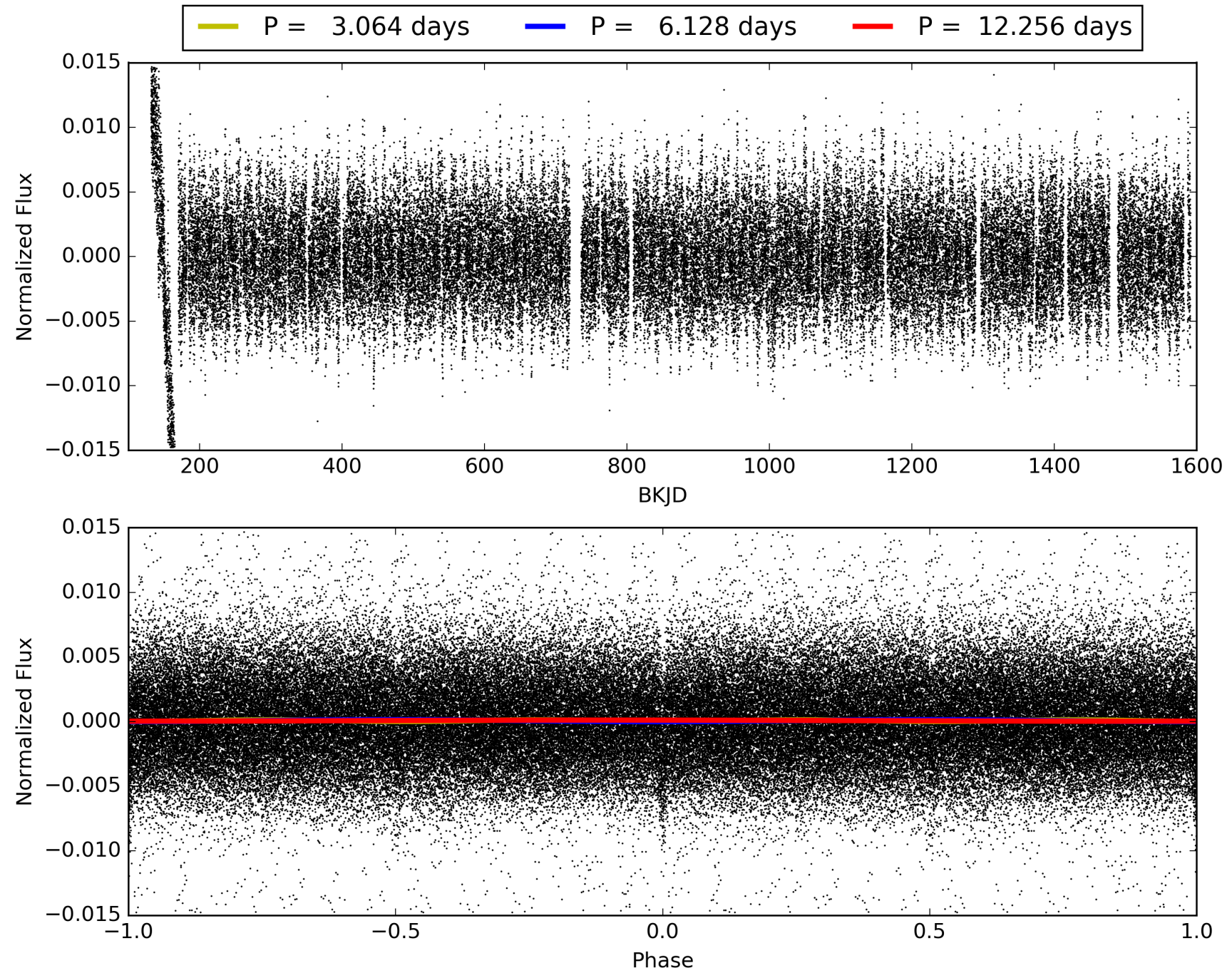
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 15:06:59 Z

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

TCE 006290382-01, PDC Light Curves

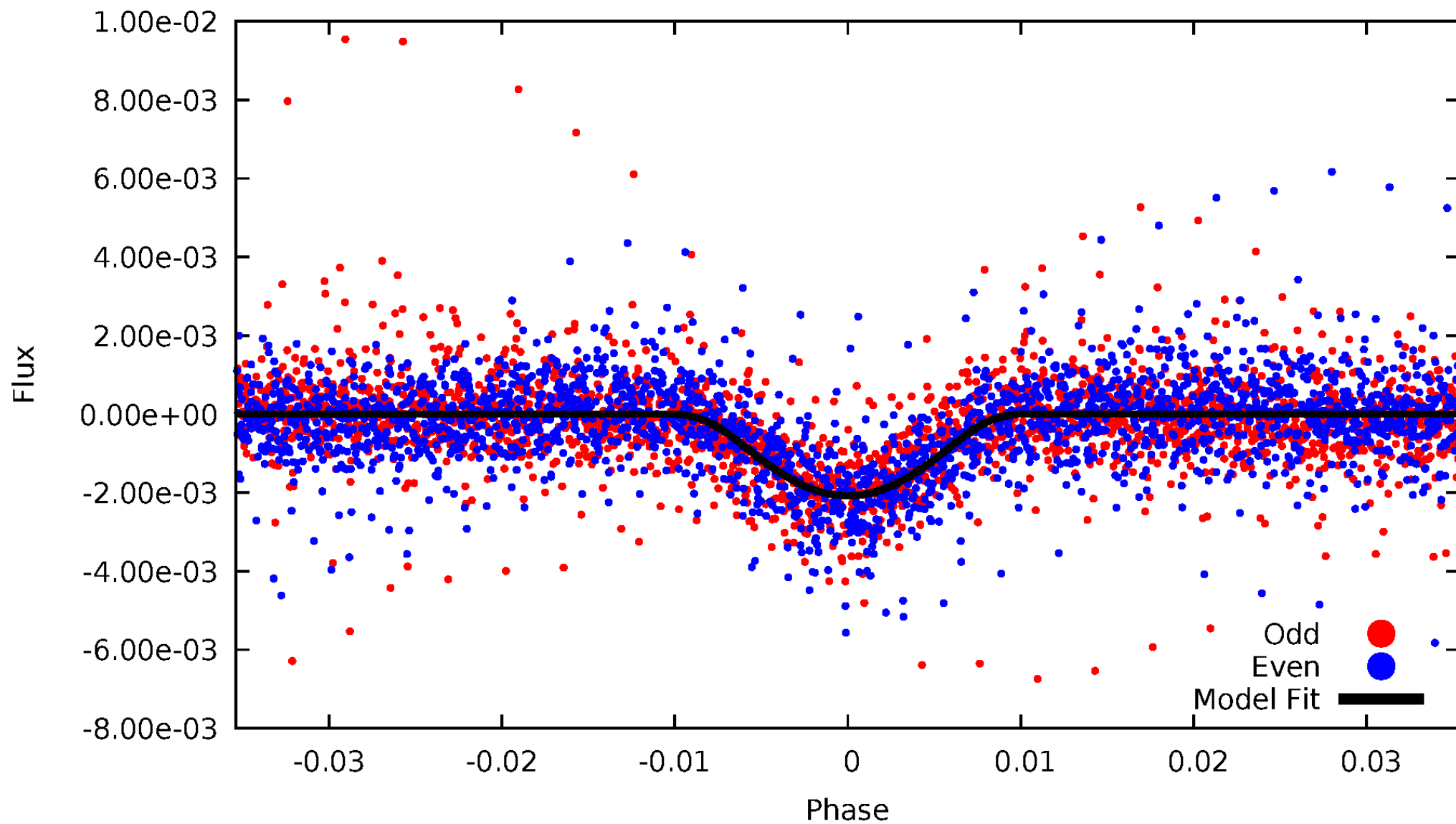


TCE 006290382-01



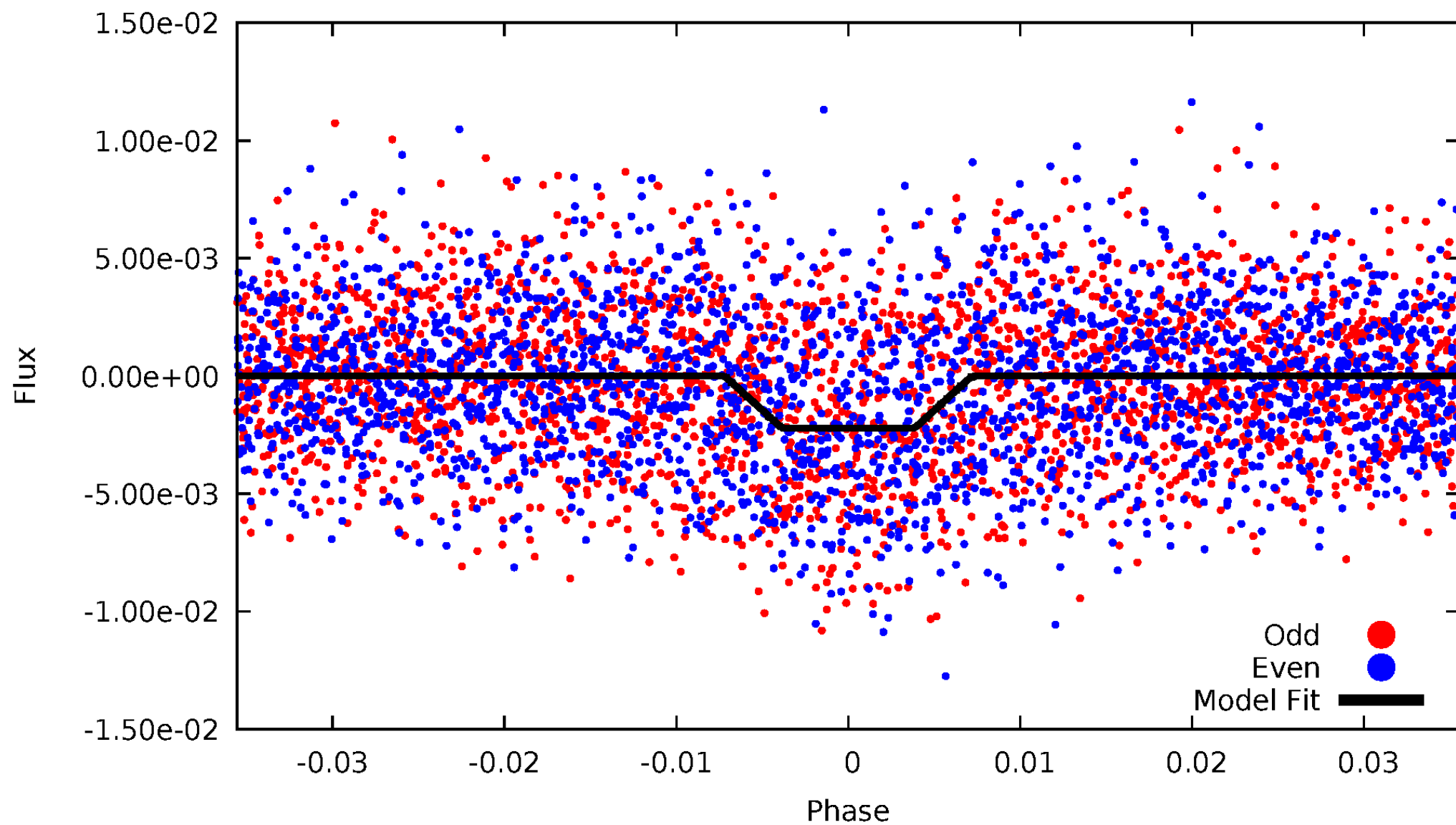
DV Odd/Even

TCE 006290382-01



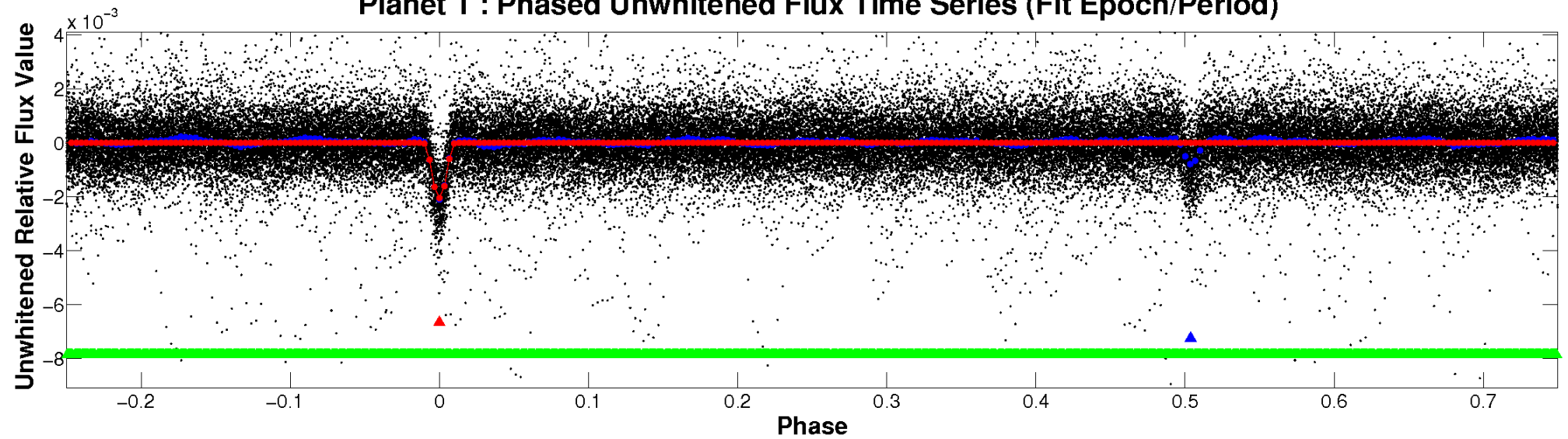
ALT Odd/Even

TCE 006290382-01

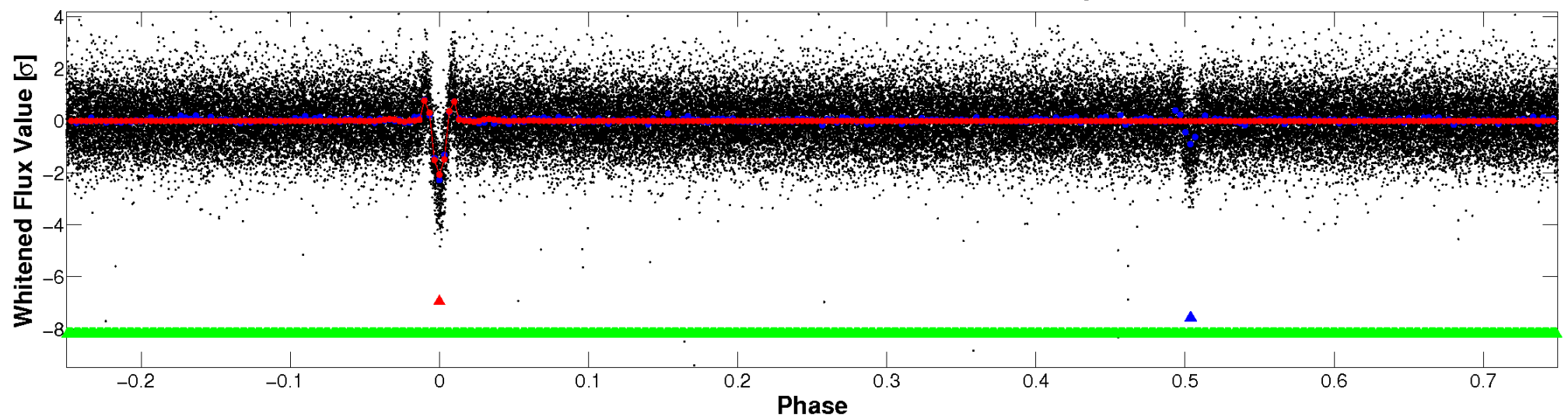


Non-Whitened Vs. Whitened Light Curve

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

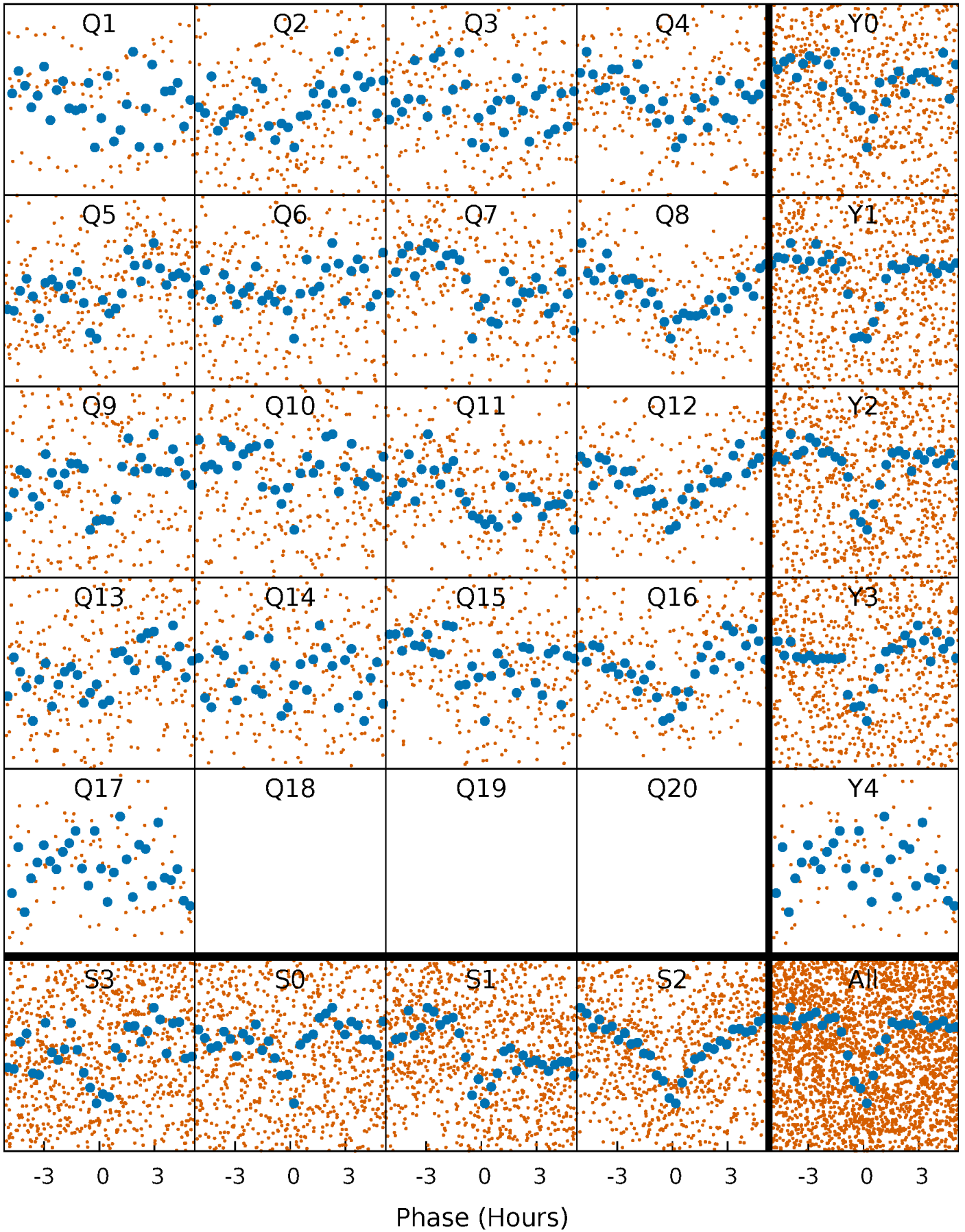


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



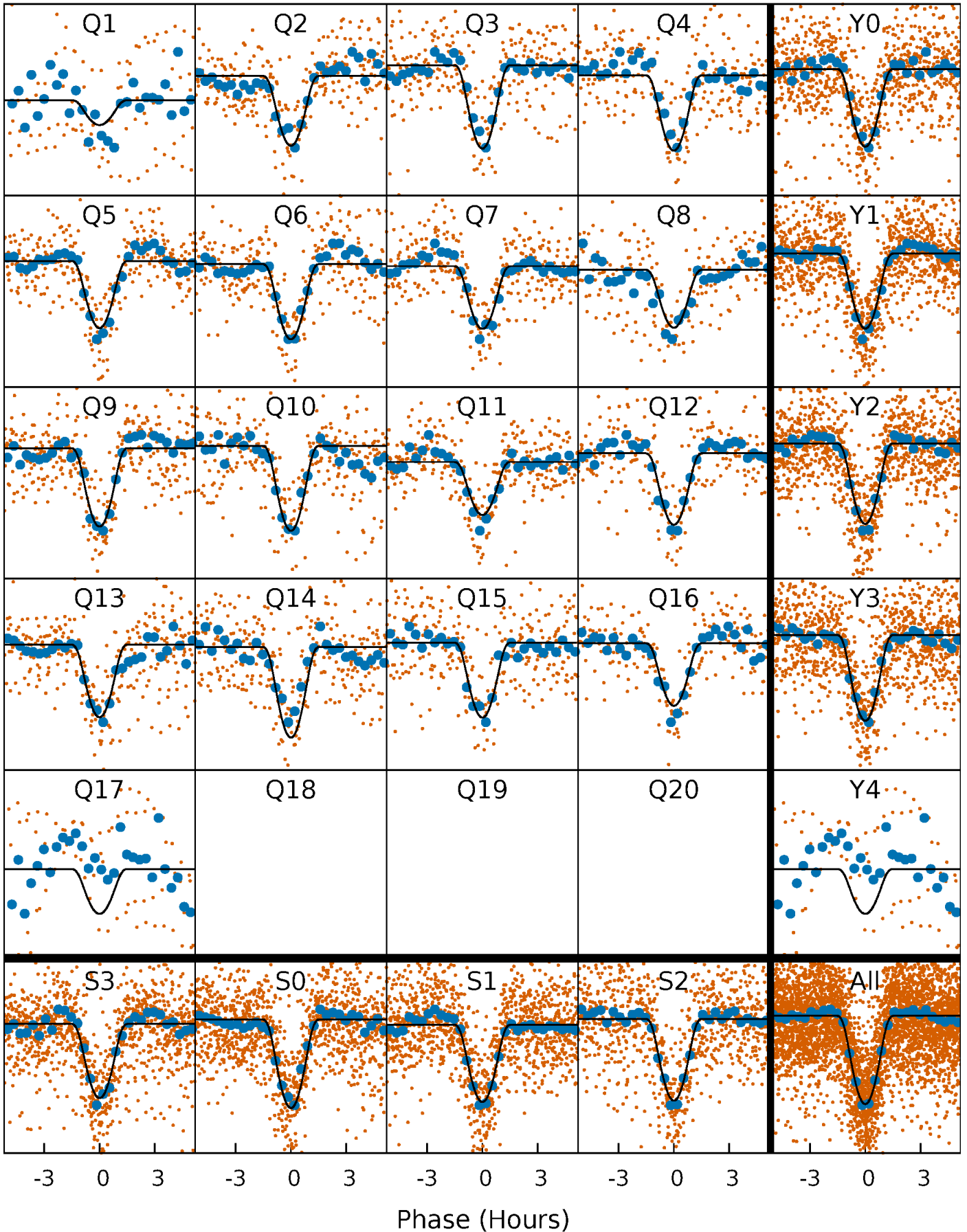
PDC Quarter-Phased Transit Curves

TCE 006290382-01 P= 6.128141 Days $T_0=137.030309$ (BKJD)



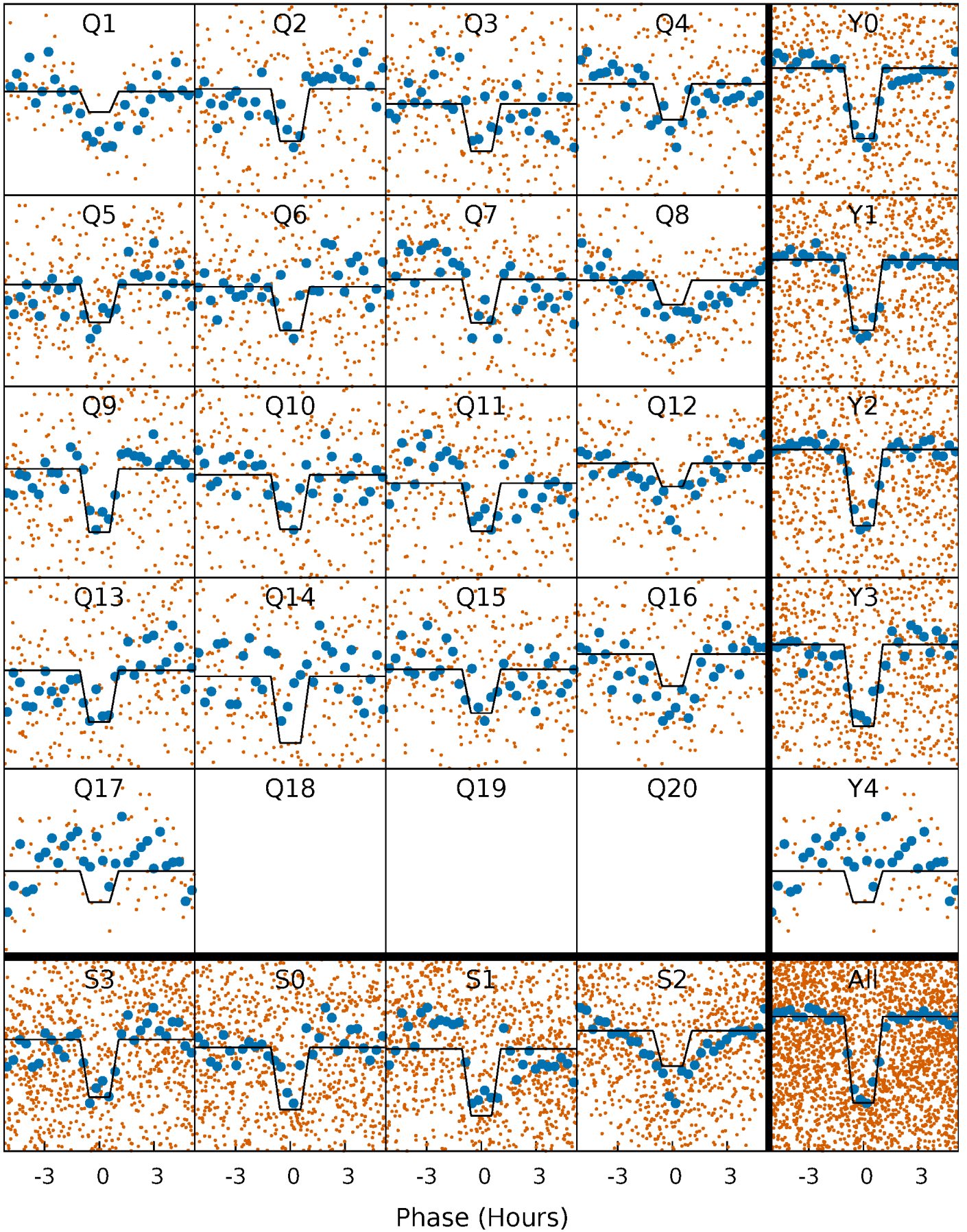
DV Quarter-Phased Transit Curves

TCE 006290382-01 P= 6.128141 Days $T_0=137.030309$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

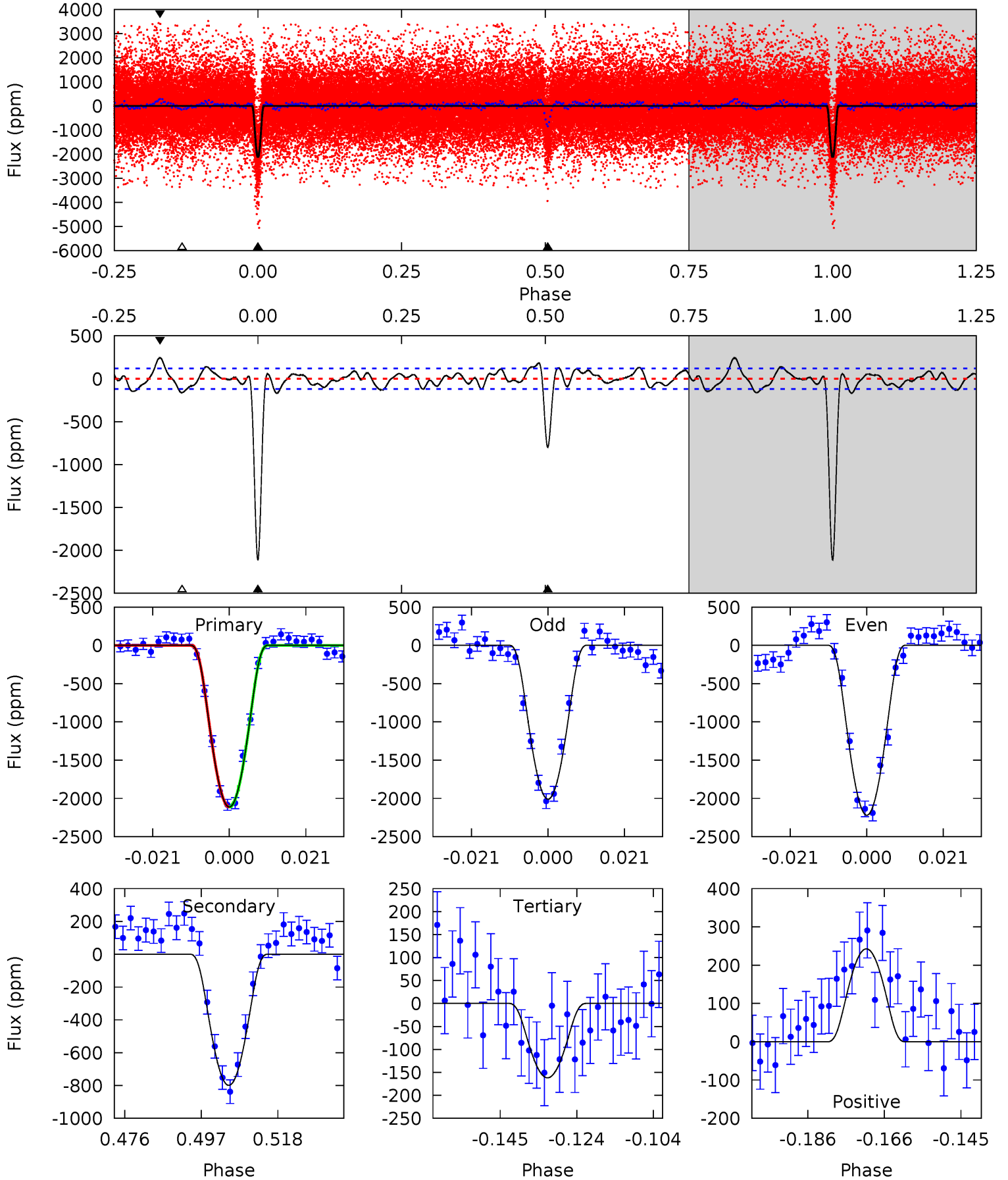
TCE 006290382-01 P= 6.128100 Days $T_0=137.035440$ (BKJD)



DV Model-Shift Uniqueness Test

006290382-01, P = 6.128141 Days, E = 130.902168 Days

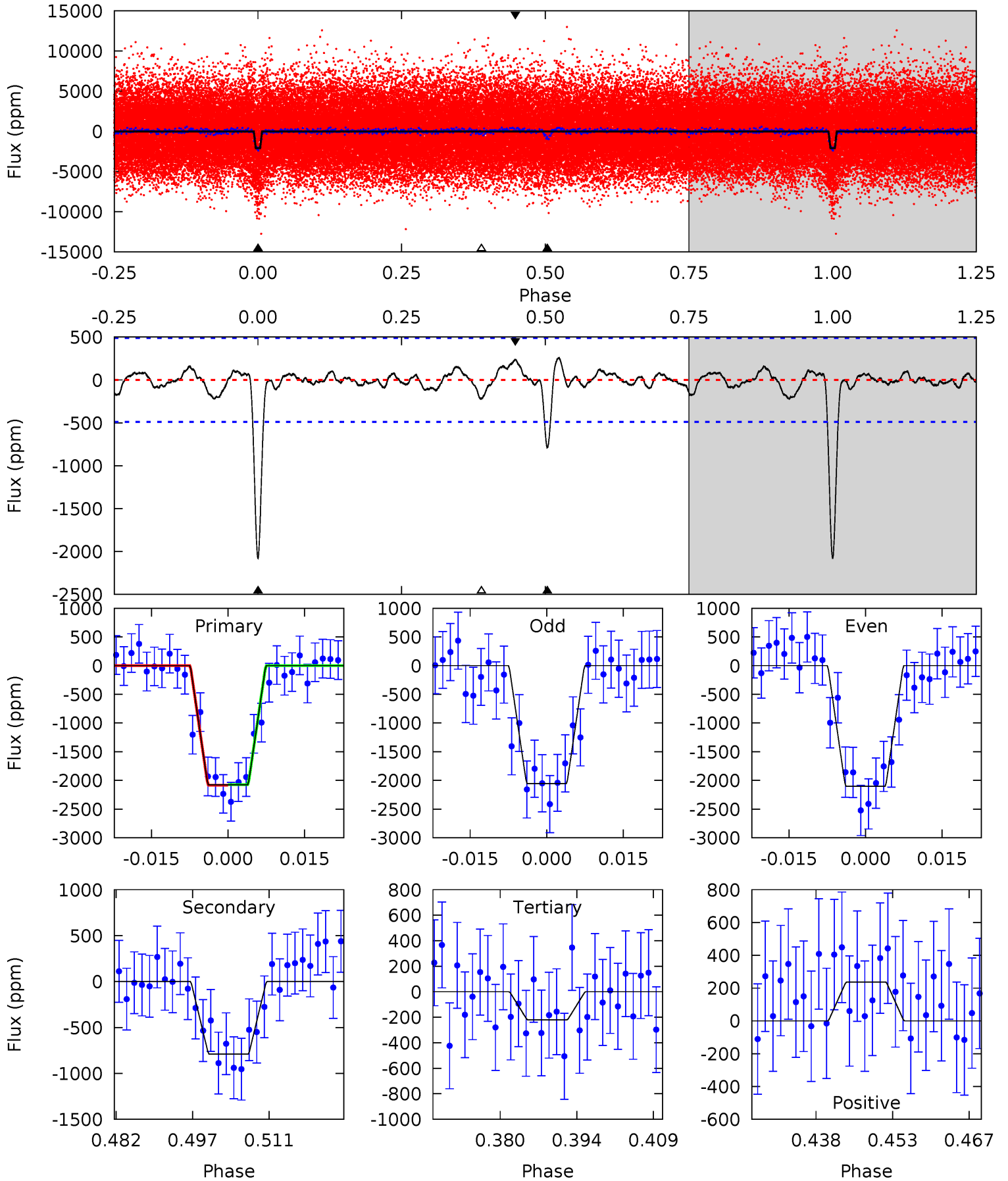
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
86.3	32.7	6.61	9.91	4.88	2.31	3.01	79.7	76.4	26.0	22.7	4.30	0.99	0.10	0.02



Alt Model-Shift Uniqueness Test

006290382-01, P = 6.128100 Days, E = 130.907340 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.1	7.99	2.24	2.40	4.95	2.44	0.85	18.8	18.7	5.76	5.59	0.23	0.88	0.11	0.04



Stellar Parameters For KIC 006290382

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7245^{+228}_{-330}	$4.158^{+0.132}_{-0.198}$	$-0.140^{+0.250}_{-0.350}$	$1.667^{+0.555}_{-0.341}$	$1.460^{+0.219}_{-0.241}$	$0.444^{+0.336}_{-0.235}$
	+3%/-5%	+3%/-5%	+179%/-250%	+33%/-20%	+15%/-17%	+76%/-53%
Source	KIC0	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 006290382-01 / KOI 3869.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-799 ± 24	$14.26^{+4.40}_{-4.09}$	2117^{+177}_{-139}	4476^{+638}_{-396}	12^{+11}_{-5}
Alt.	-789 ± 99	$8.56^{+3.97}_{-3.45}$	2124^{+174}_{-151}	5548^{+1687}_{-811}	32^{+58}_{-18}

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 $A_{\text{obs}} \gg 1.0$

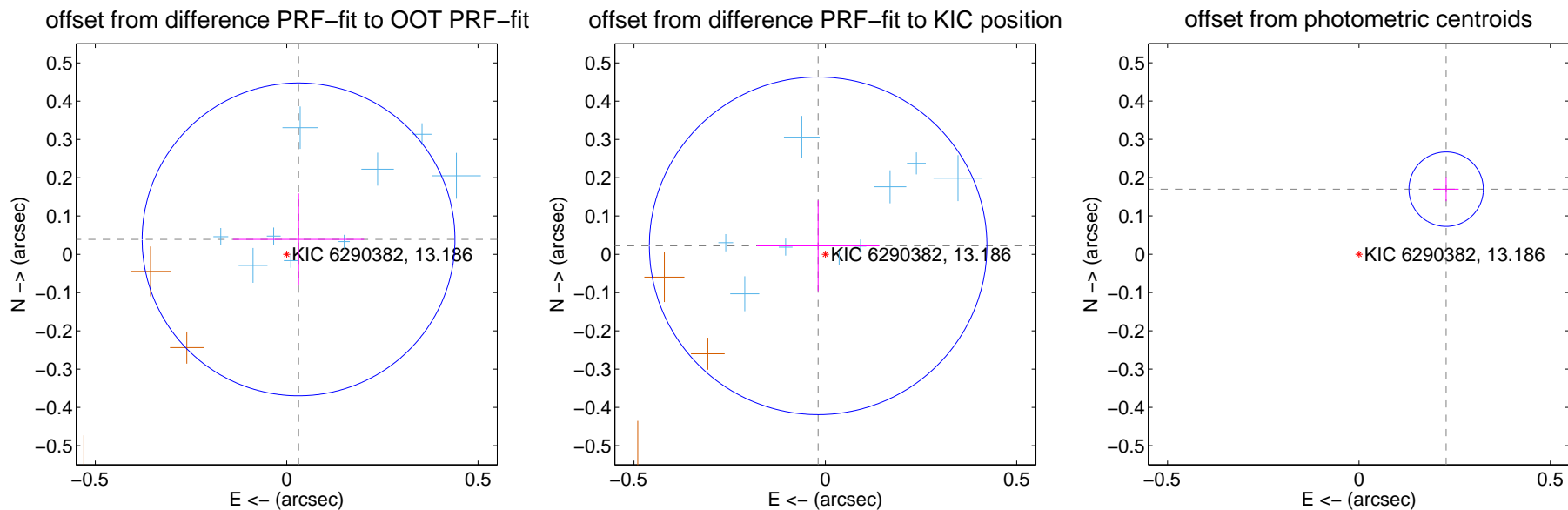
DV Centroid Data

Supplemental centroid analysis for 006290382-01. Kepler magnitude: 13.19. Transit SNR 48.10

There are 11 quarters with good PRF difference image offsets

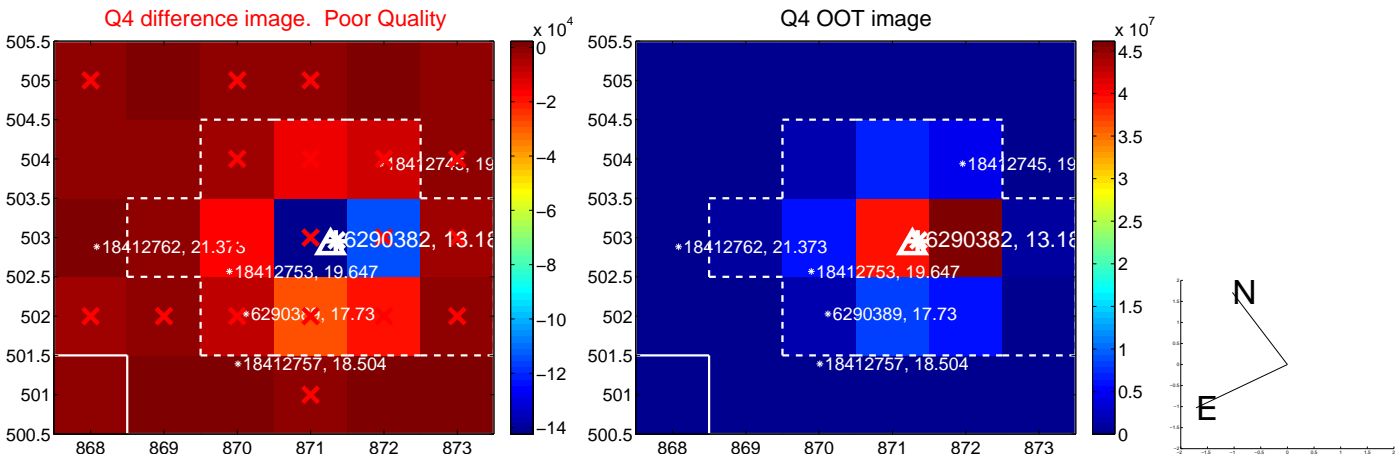
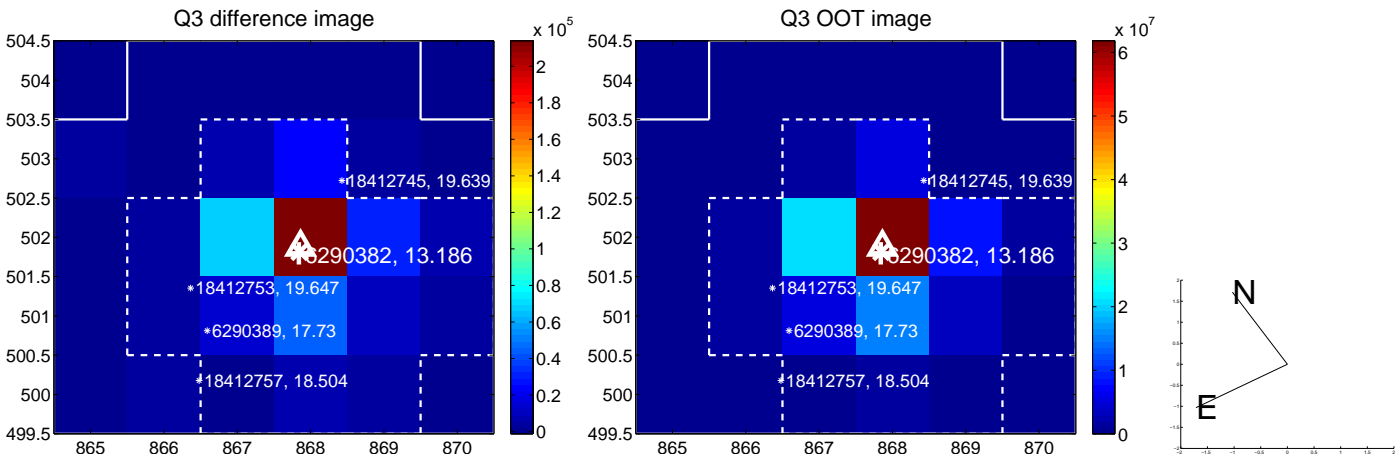
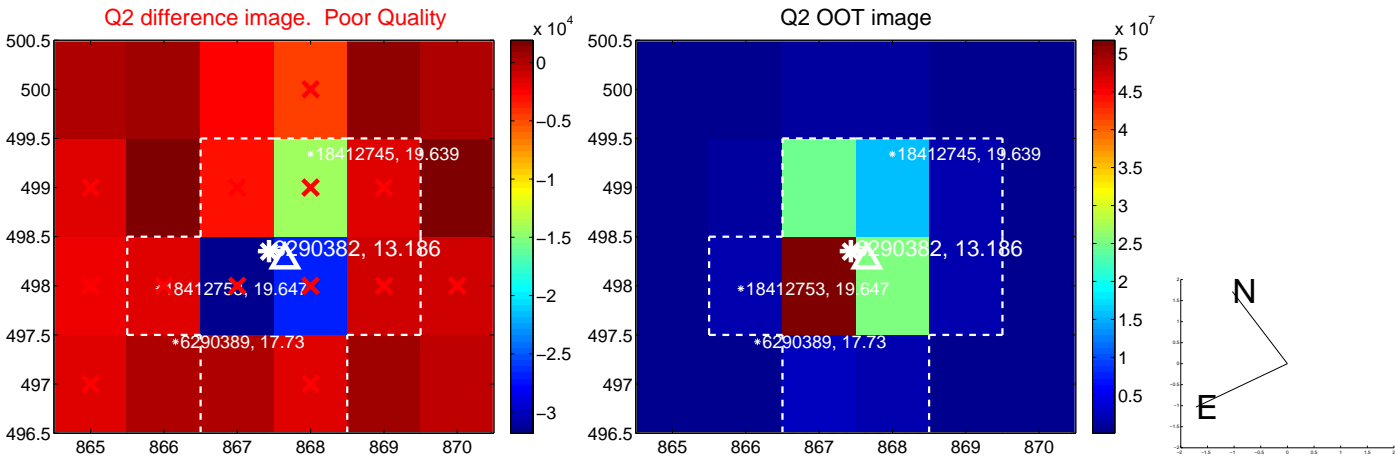
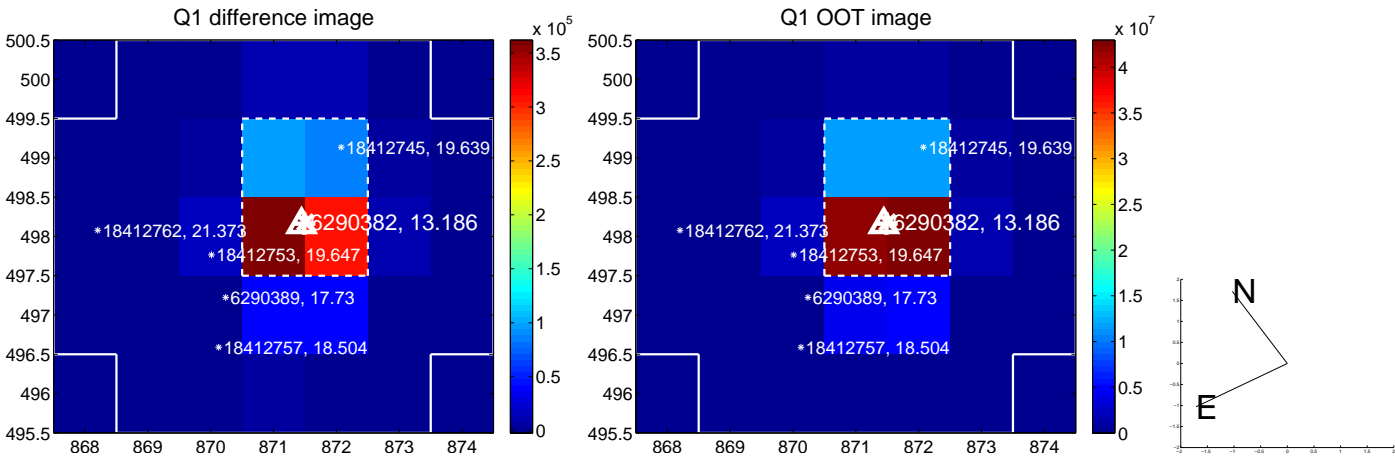
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.050 ± 0.136	0.37	-0.031 ± 0.171	0.039 ± 0.120
PRF-fit source offset from KIC position	0.029 ± 0.147	0.20	0.019 ± 0.160	0.022 ± 0.118
photometric centroid source offset	0.28 ± 0.03	8.77	-0.23 ± 0.03	0.17 ± 0.03

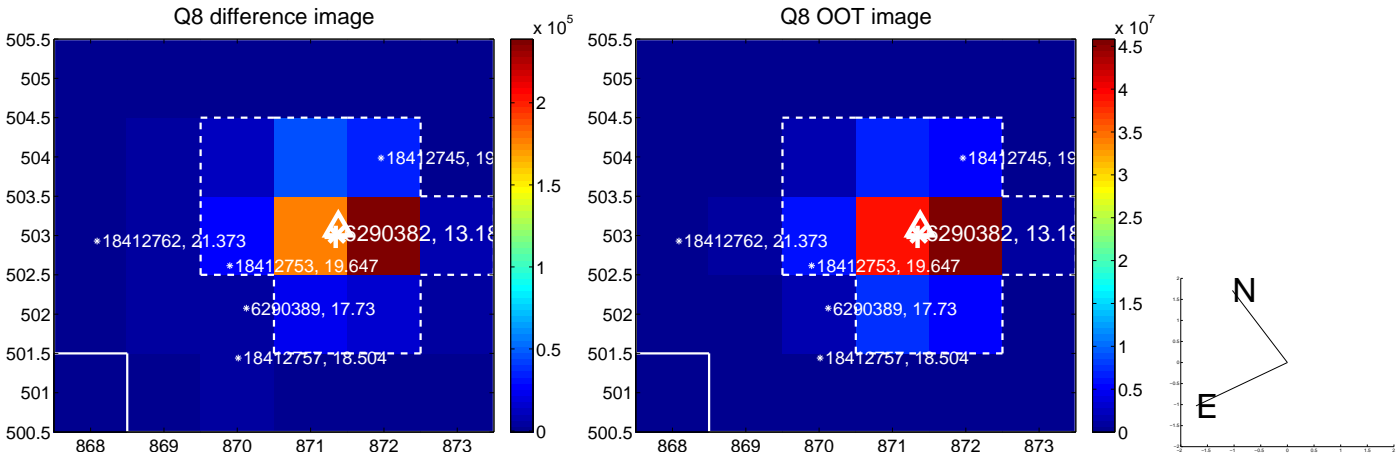
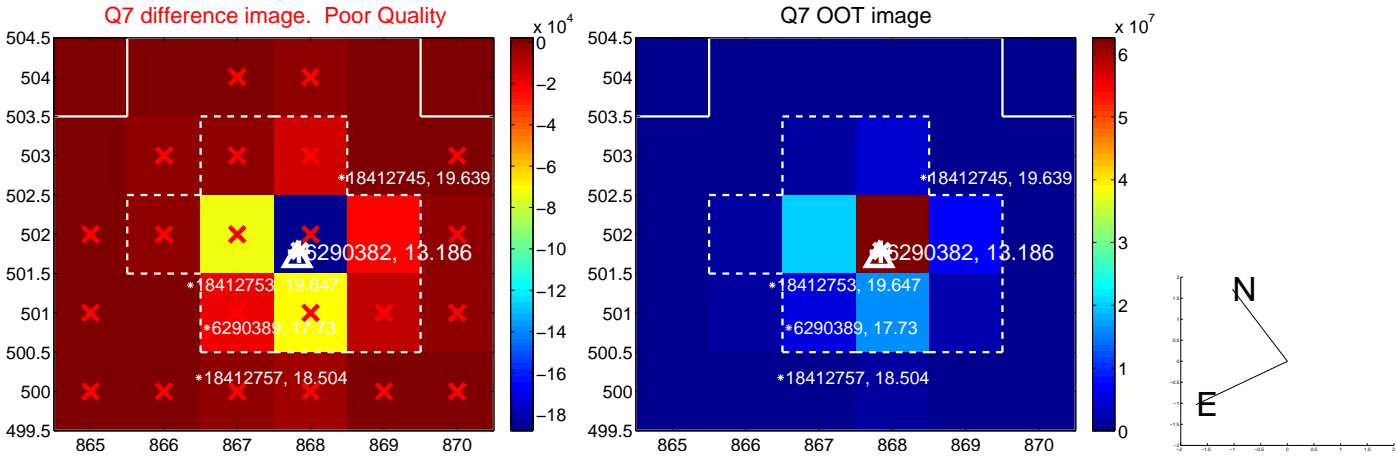
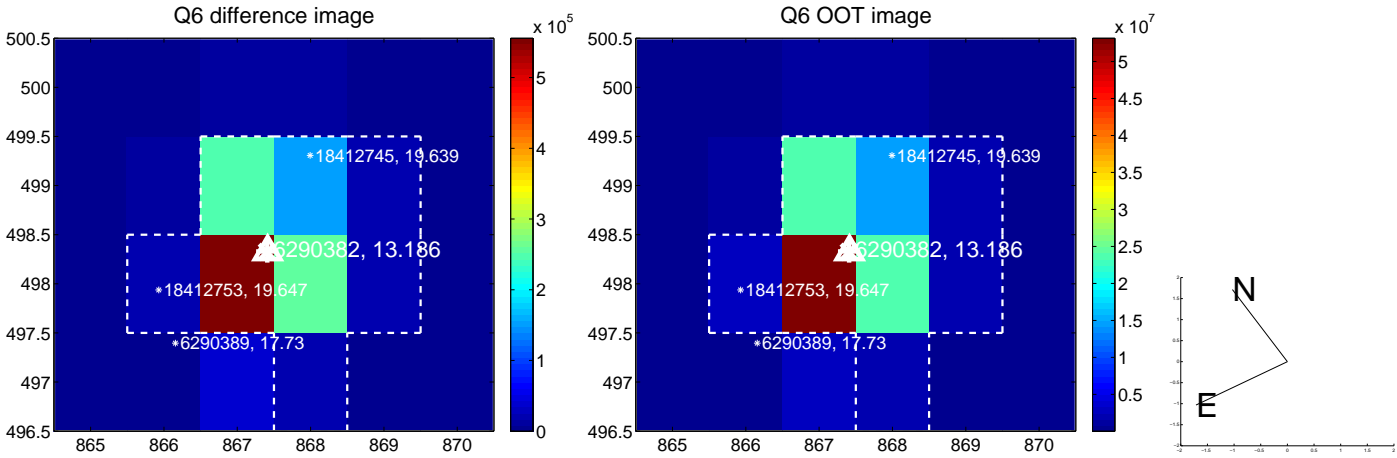
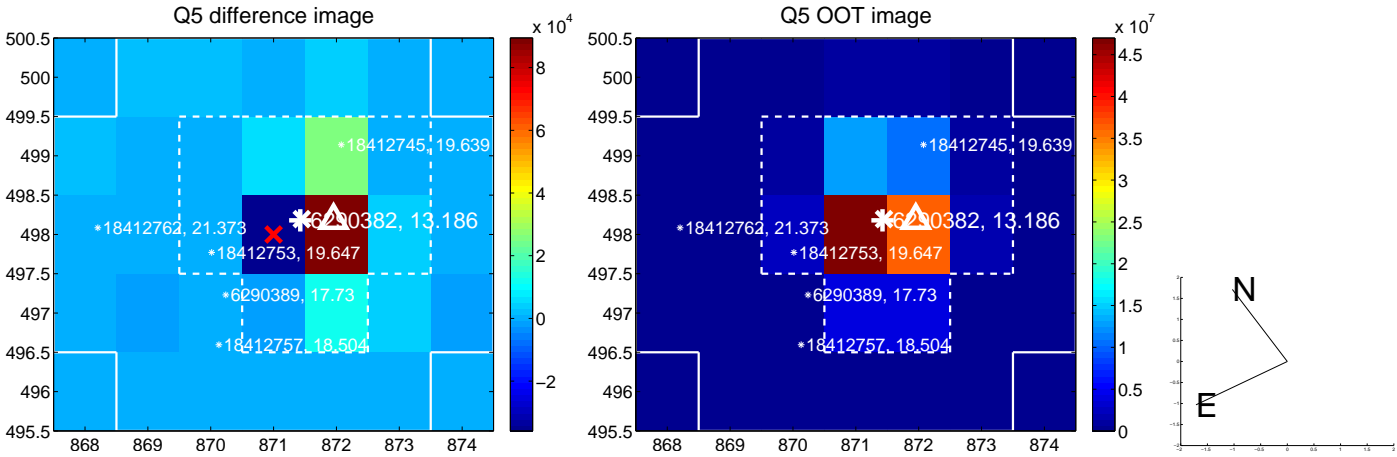


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

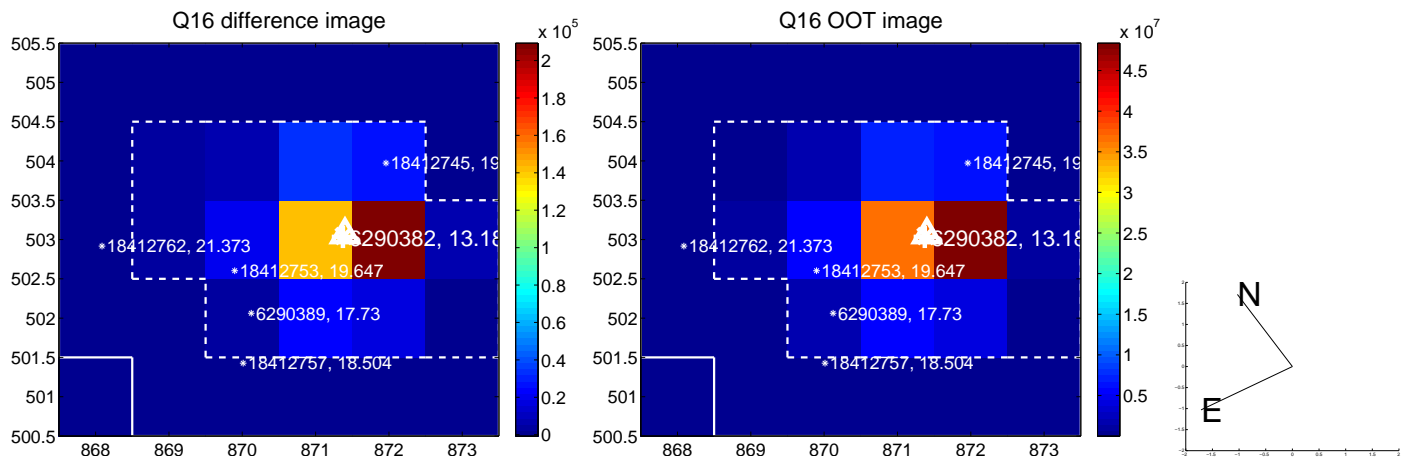
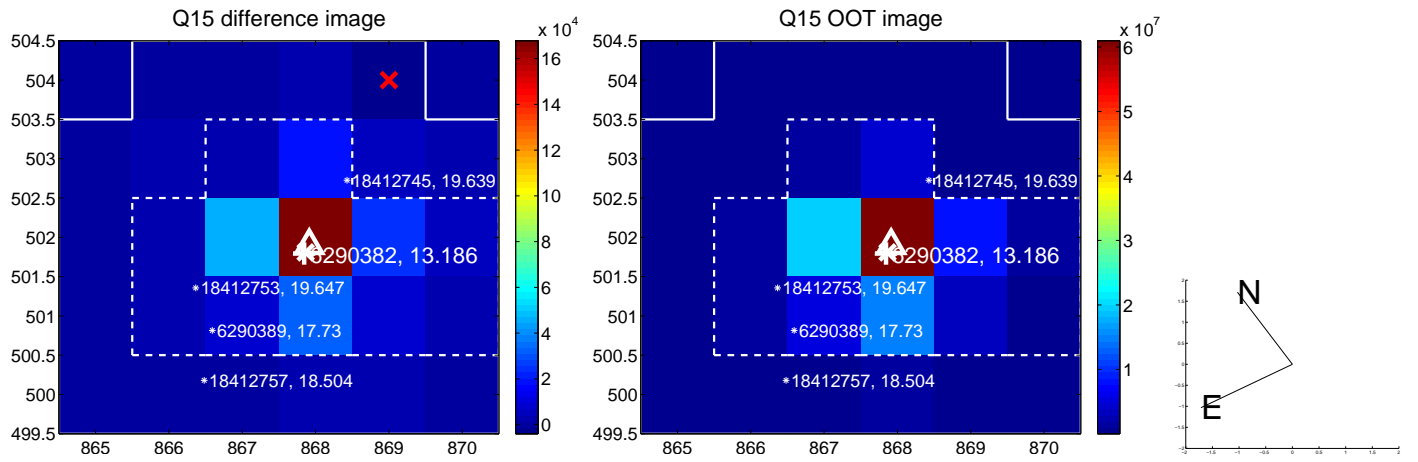
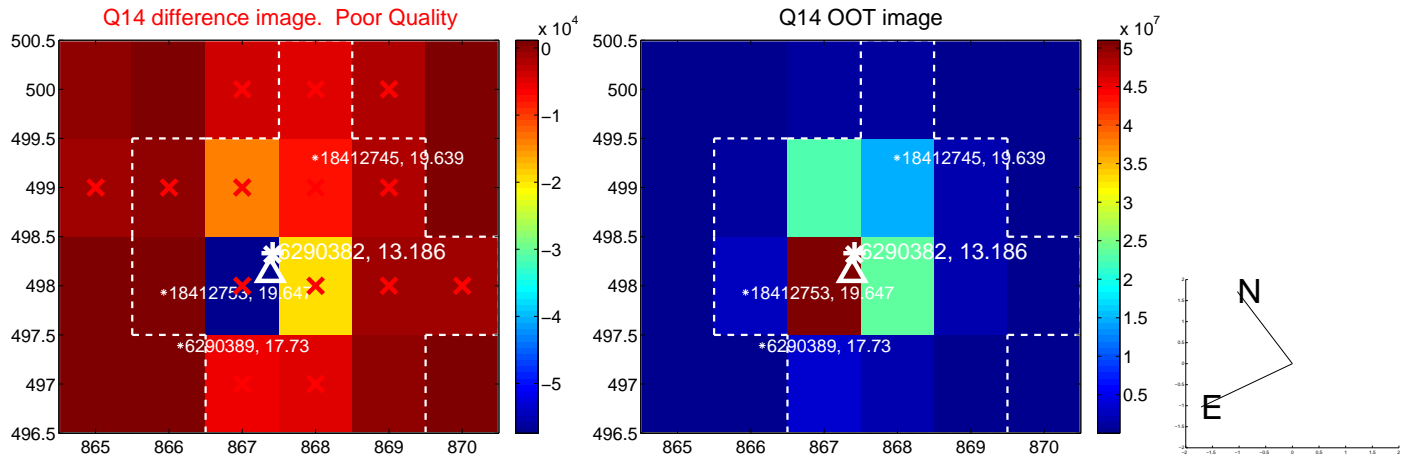
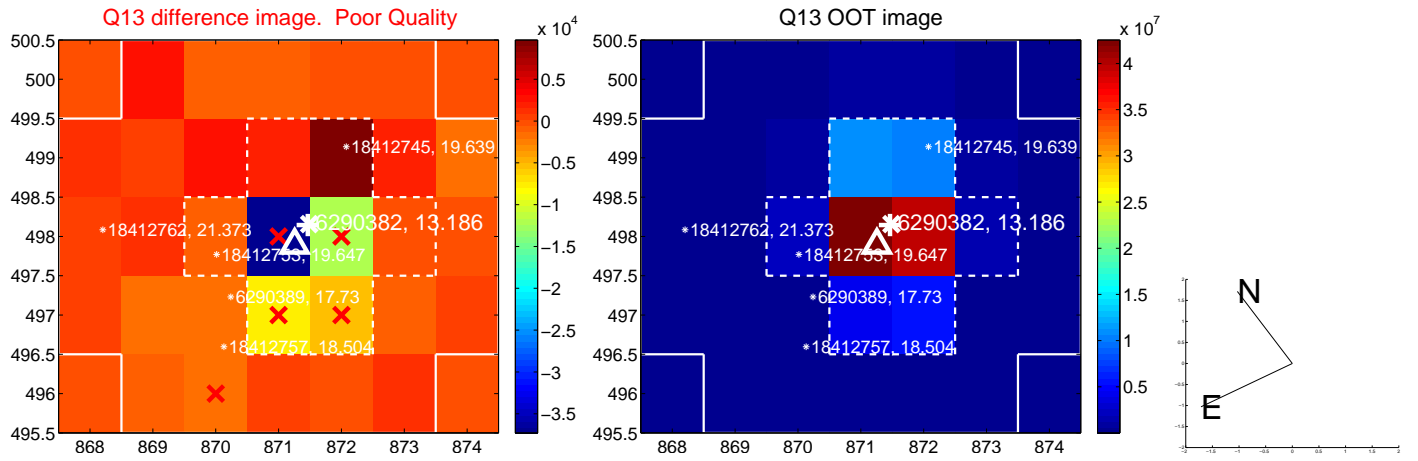
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



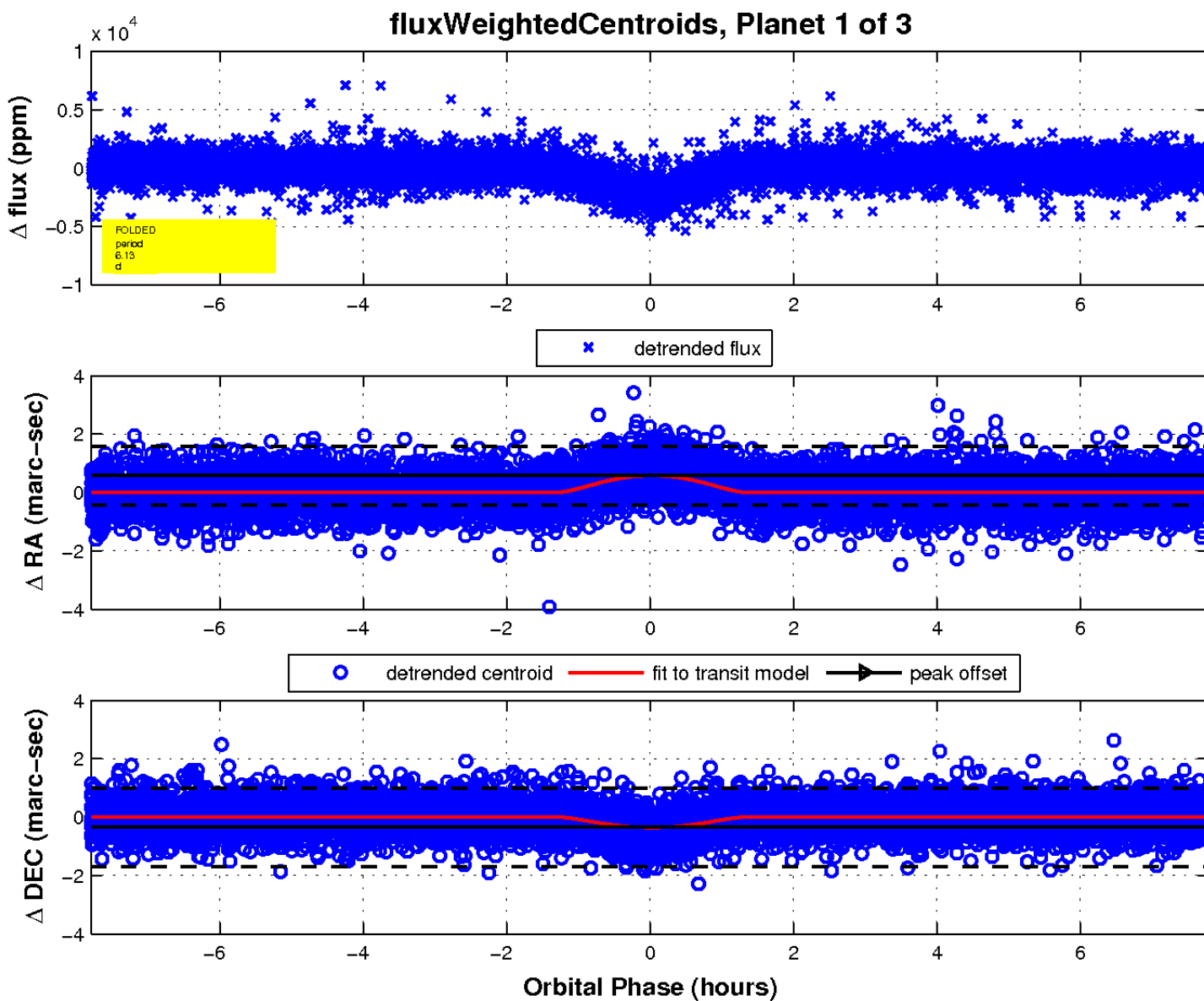
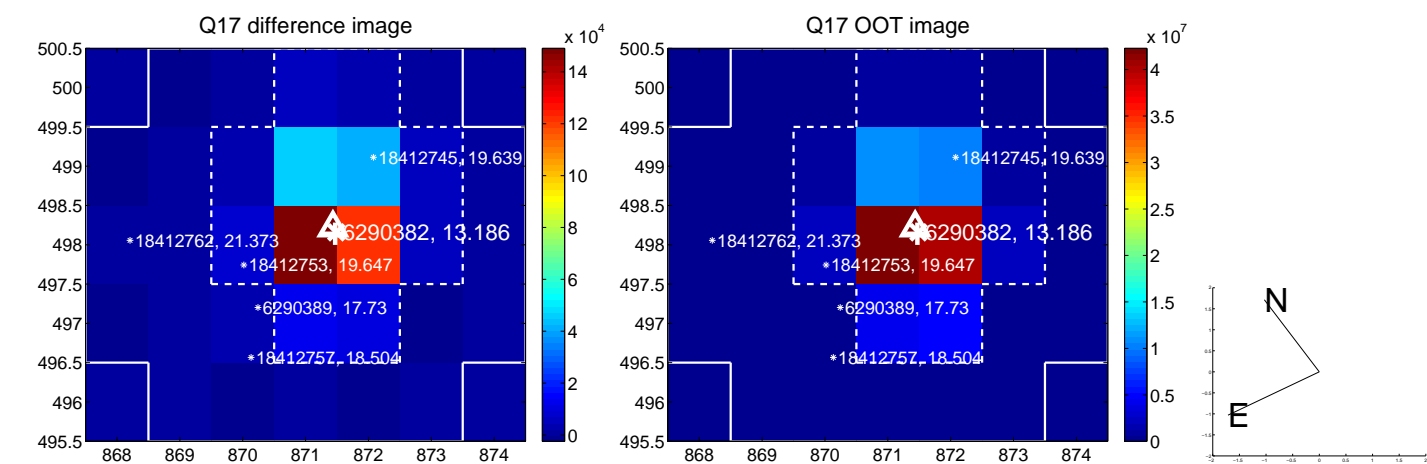
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

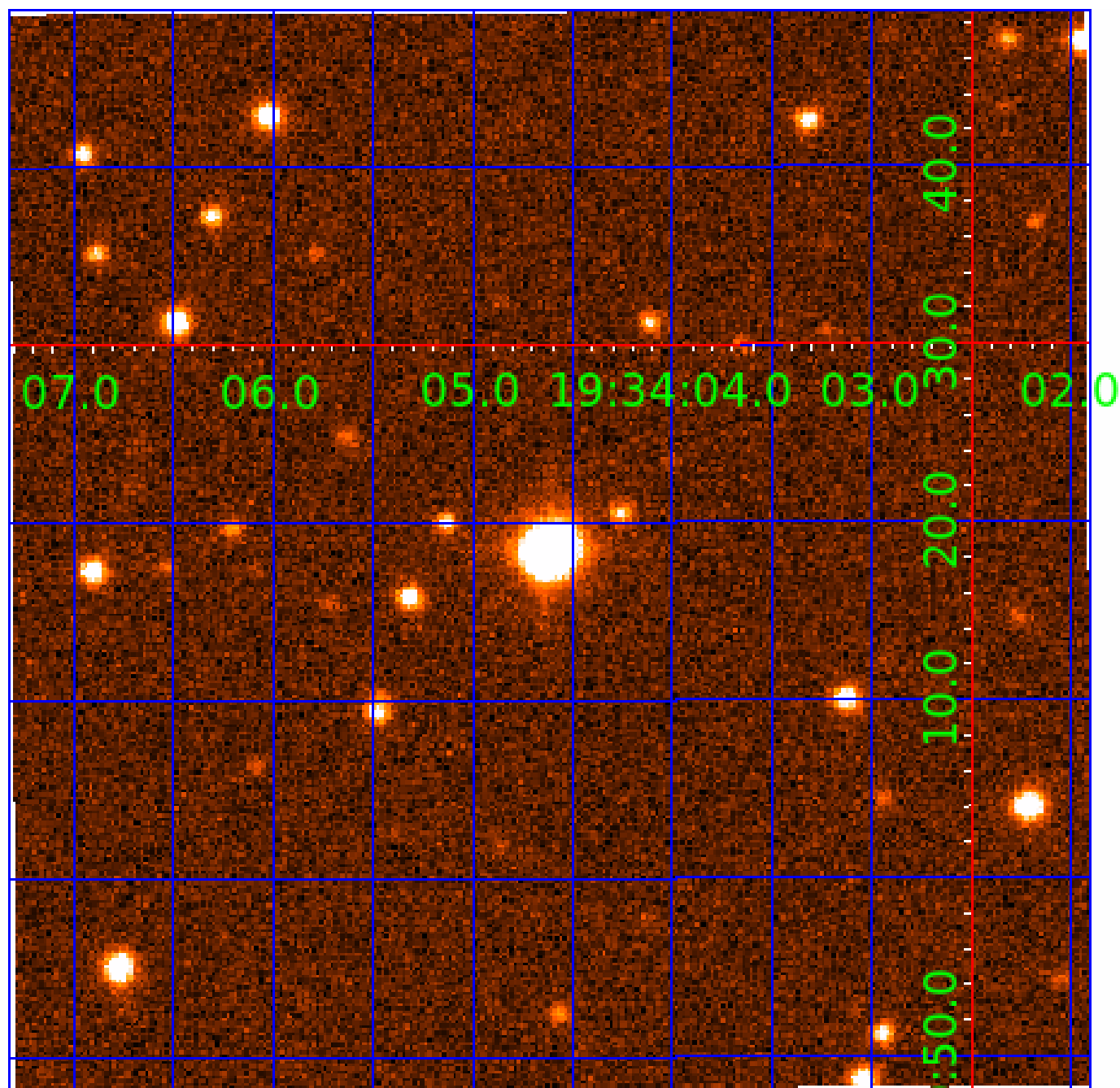


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006290382

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})
006290382-01	OBS	3869.01	6.128141	137.030309	2081.1	2.600	37.4	48.1	1.67	7245	13.95	1241.37
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006290382-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
006290382-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006290382-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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.

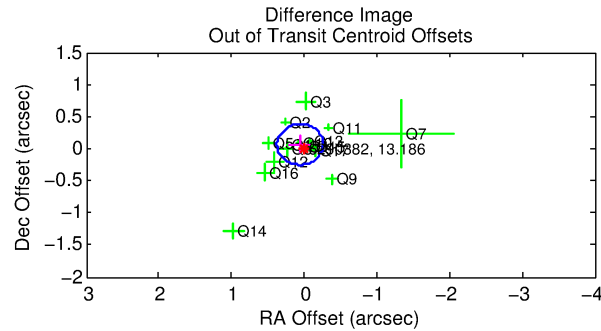
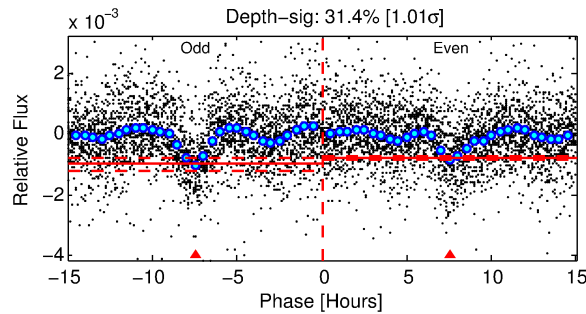
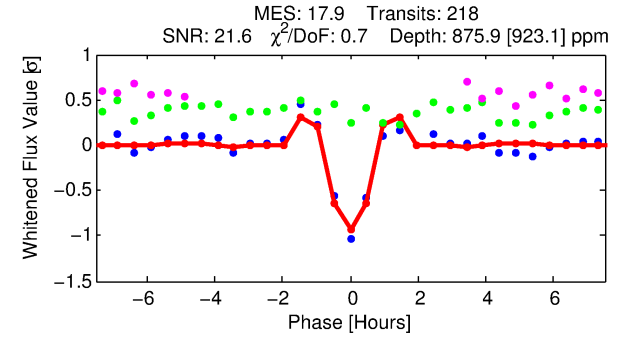
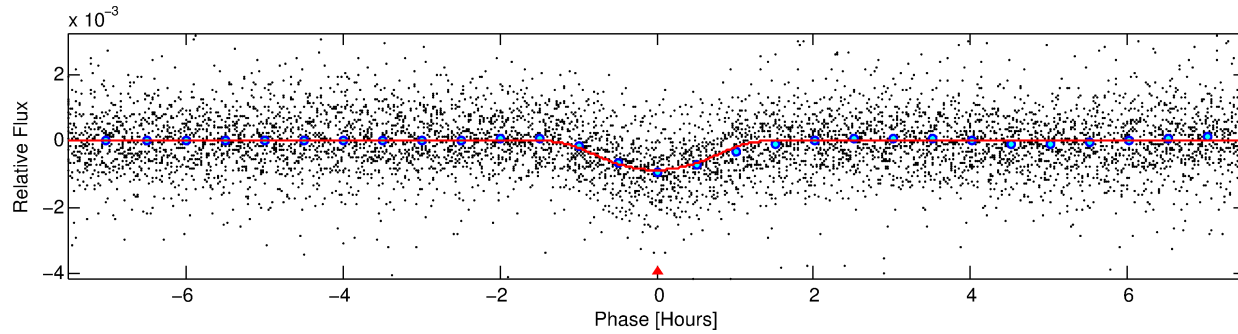
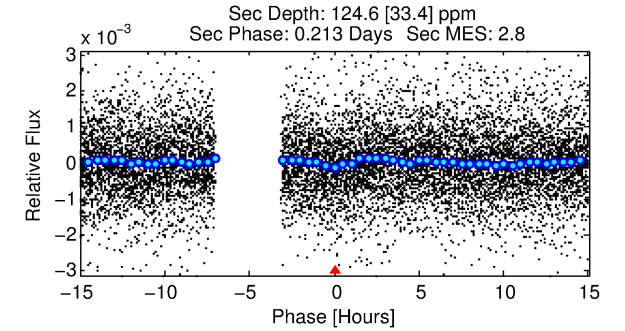
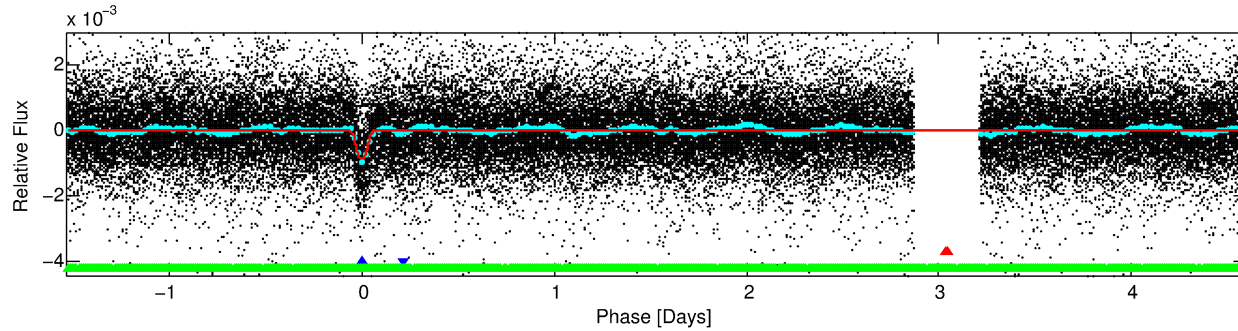
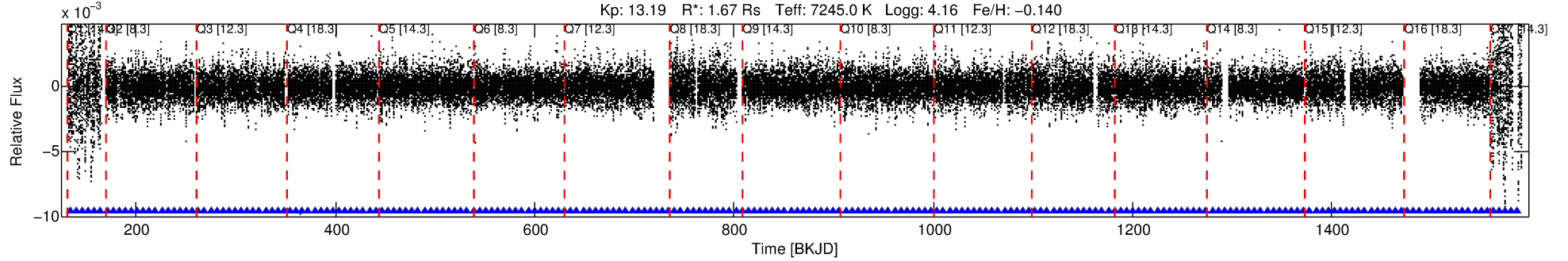
Ephemeris Match Information For 006290382-02

No Significant Match Found

DV One-Page Summary

KIC: 6290382 Candidate: 2 of 3 Period: 6.128 d
KOI: K03869 Corr: No Ephemeris Match

Kp: 13.19 R*: 1.67 Rs Teff: 7245.0 K Logg: 4.16 Fe/H: -0.140



DV Fit Results:

Period = 6.12813 [0.00001] d
Epoch = 133.9906 [0.0013] BKJD
Rp/R* = 0.0510 [0.0296]
a/R* = 6.12 [0.88]
b = 1.00 [0.01]
Seff = 1241.37 [519.06]
Teff = 1514 [158] K
Rp = 9.27 [6.20] Re
a = 0.0743 [0.0200] AU
Ag = 4.40 [5.50] [0.62σ]
Teffp = 3390 [1020] K [1.82σ]

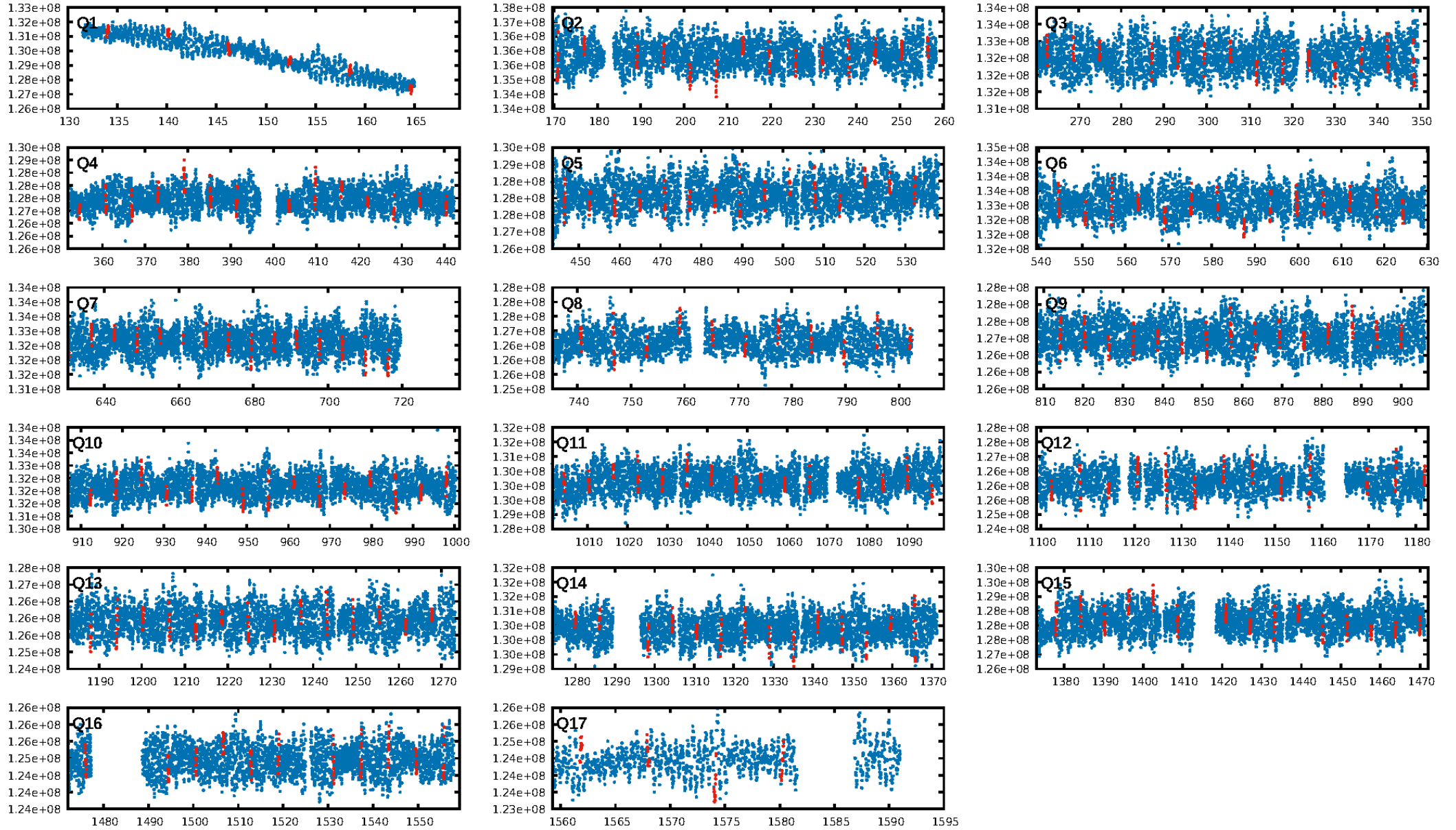
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [36.03σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.15e-65
RollingBand-fgt: 1.00 [208/208]
GhostDiagnostic-chr: 1.811
Centroid-sig: 0.0%
Centroid-so: 0.311 arcsec [4.04σ]
OotOffset-rm: 0.088 arcsec [0.83σ]
KicOffset-rm: 0.128 arcsec [1.08σ]
OotOffset-st: 3/4/4/5 [16]
KicOffset-st: 3/4/4/5 [16]
DiffImageQuality-fgm: 0.62 [10/16]
DiffImageOverlap-fno: 0.94 [16/17]

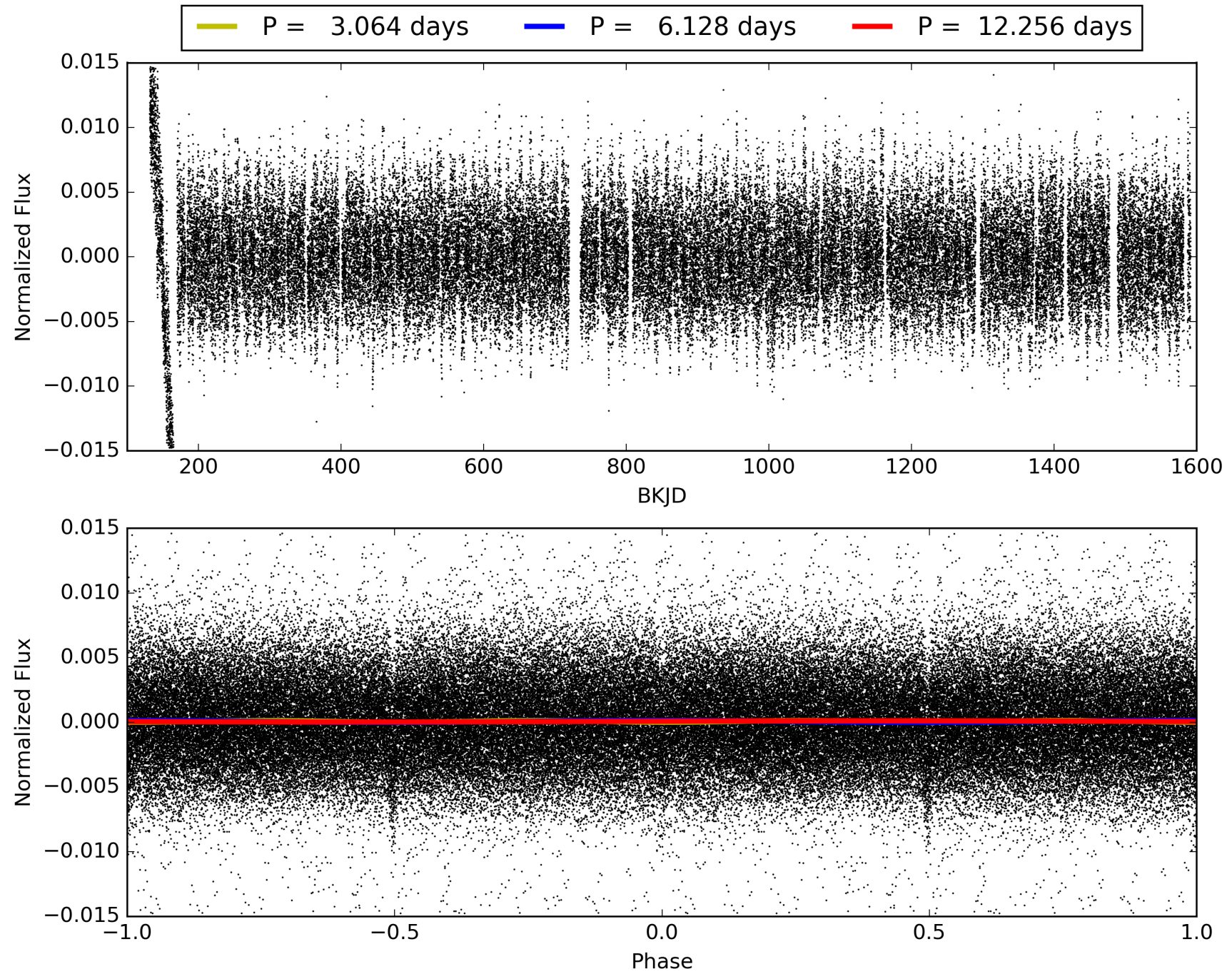
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 15:07:05 Z

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

TCE 006290382-02, PDC Light Curves

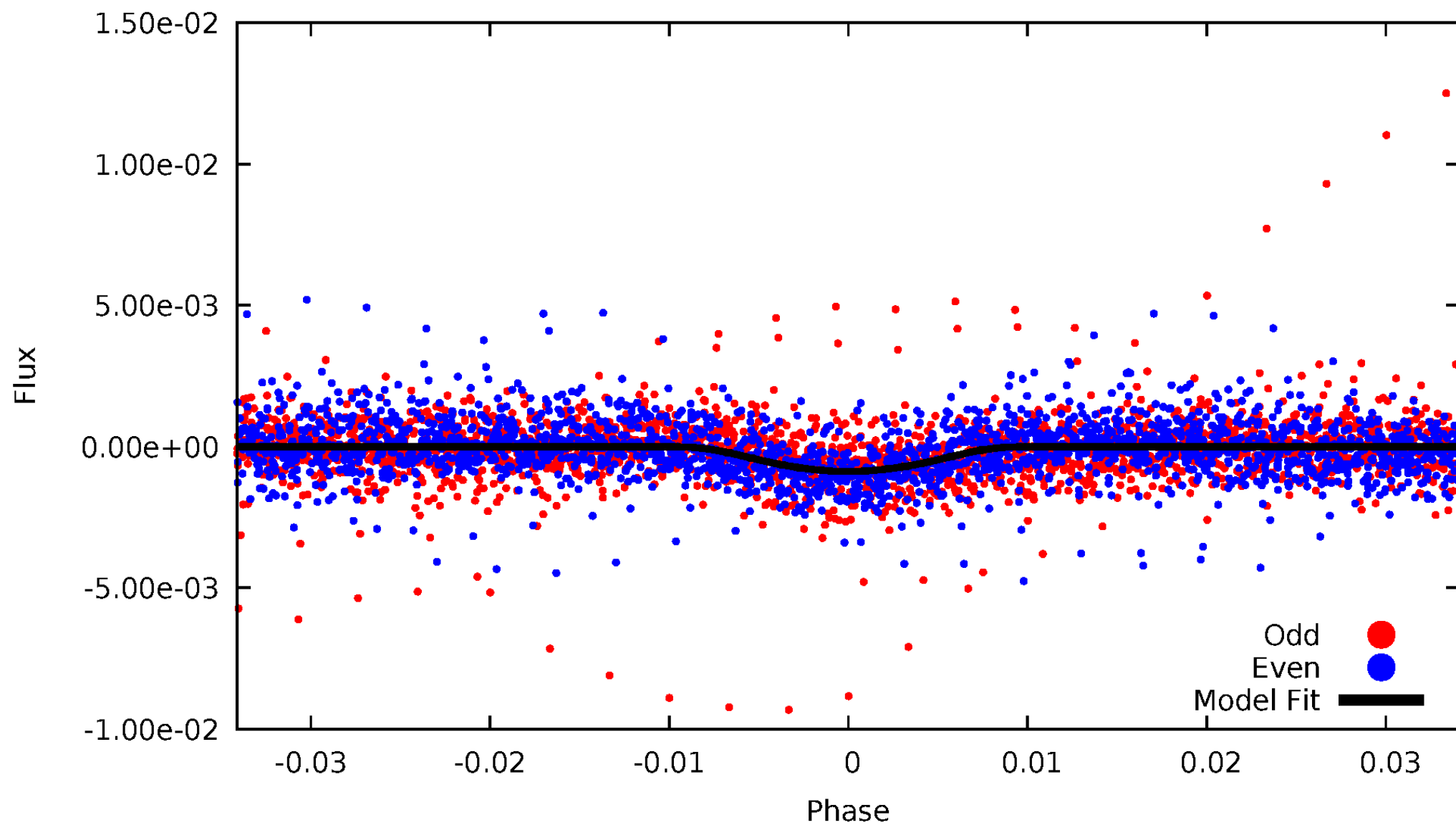


TCE 006290382-02



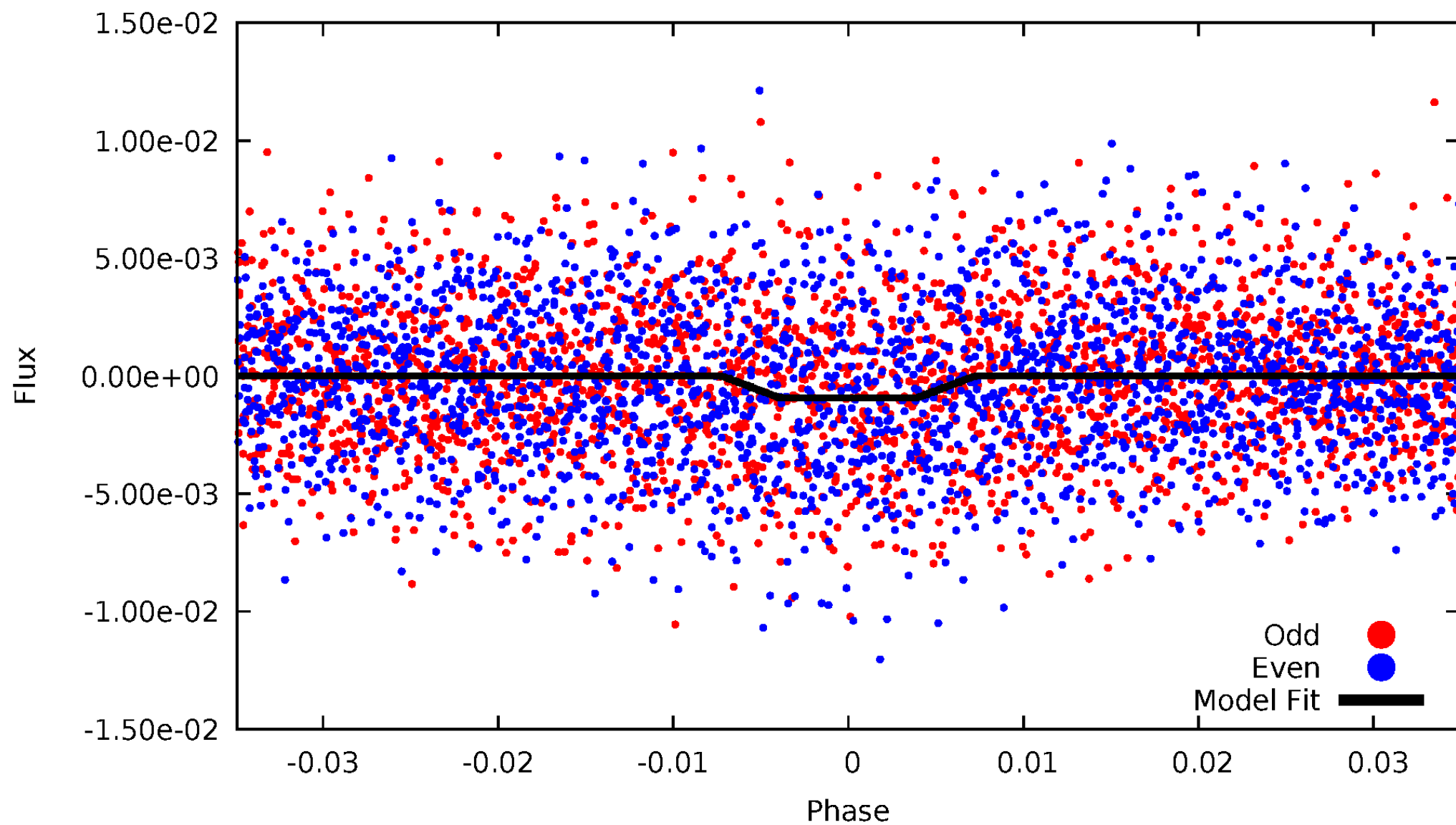
DV Odd/Even

TCE 006290382-02



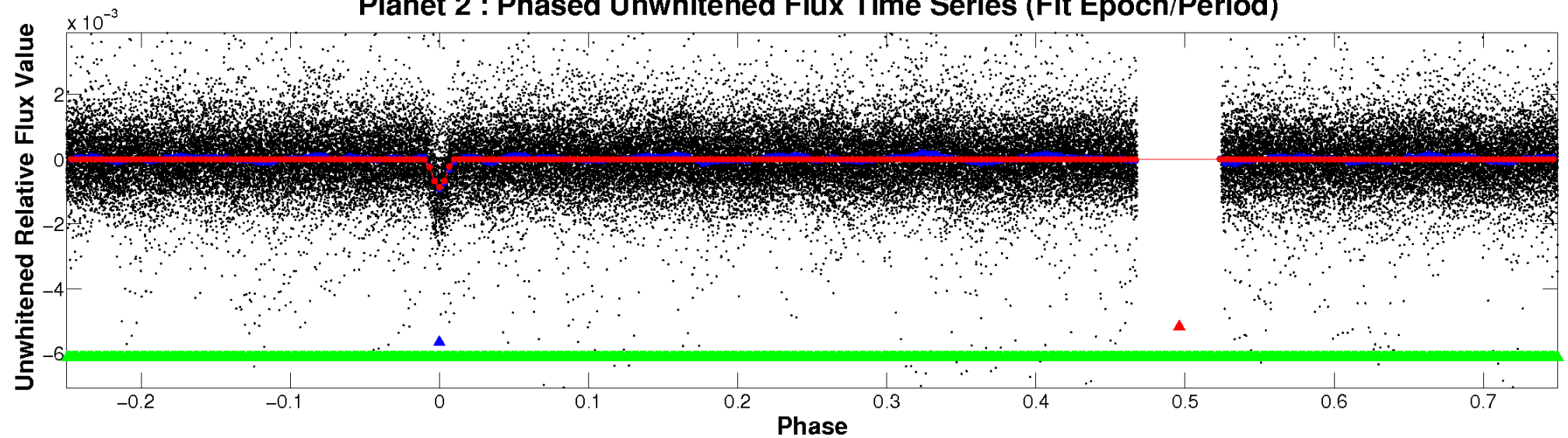
ALT Odd/Even

TCE 006290382-02

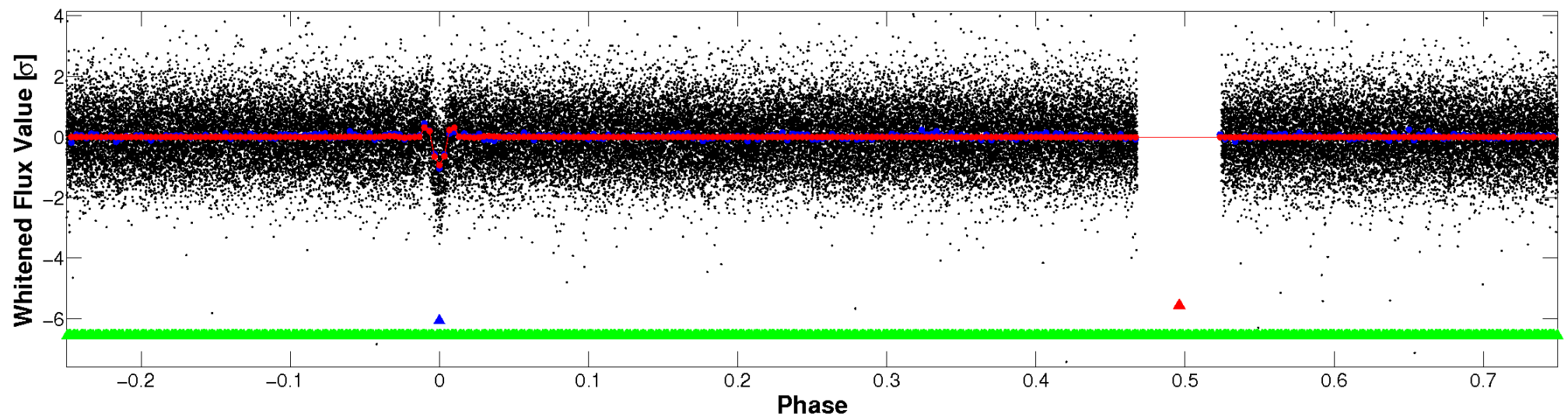


Non-Whitened Vs. Whitened Light Curve

Planet 2 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

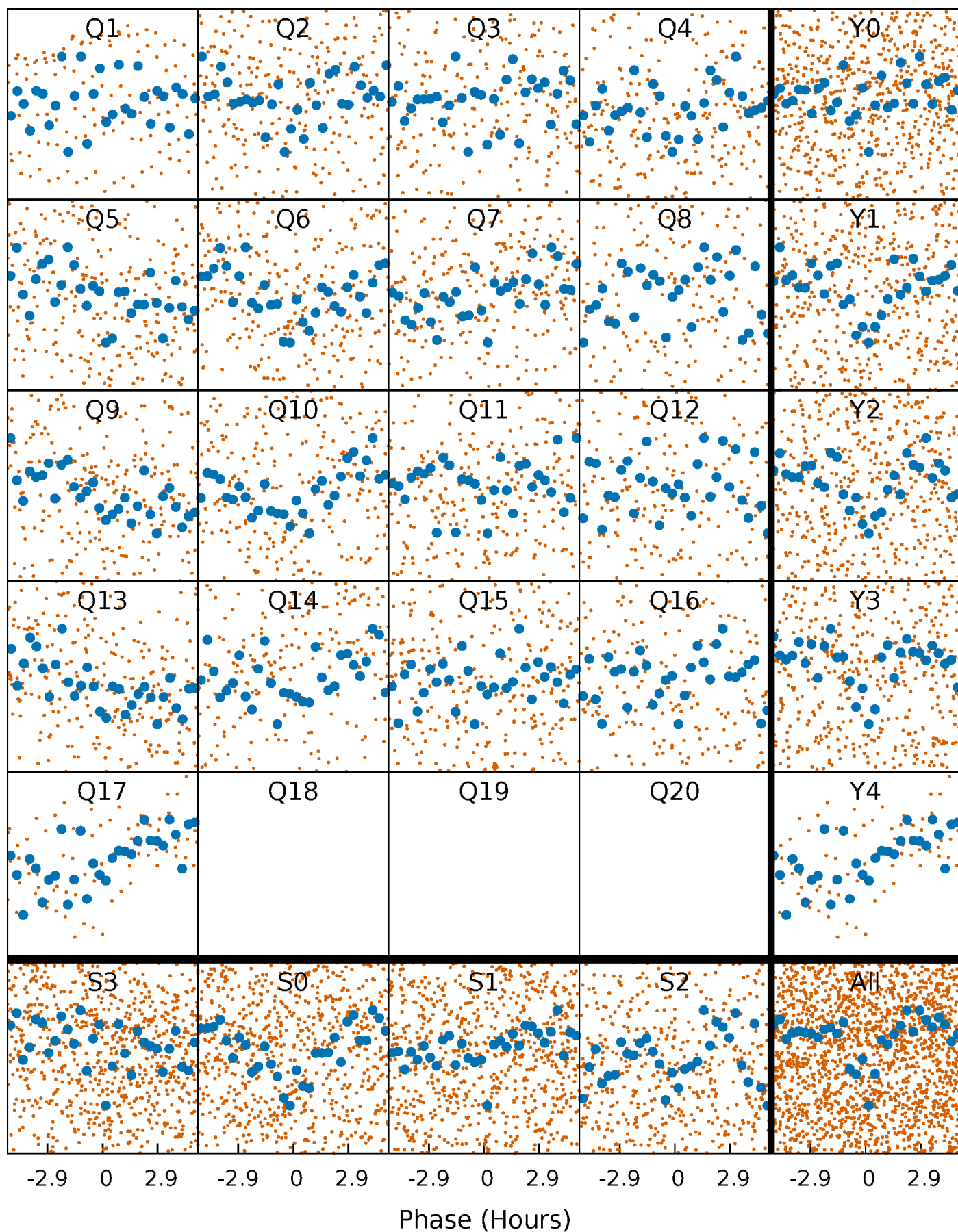


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



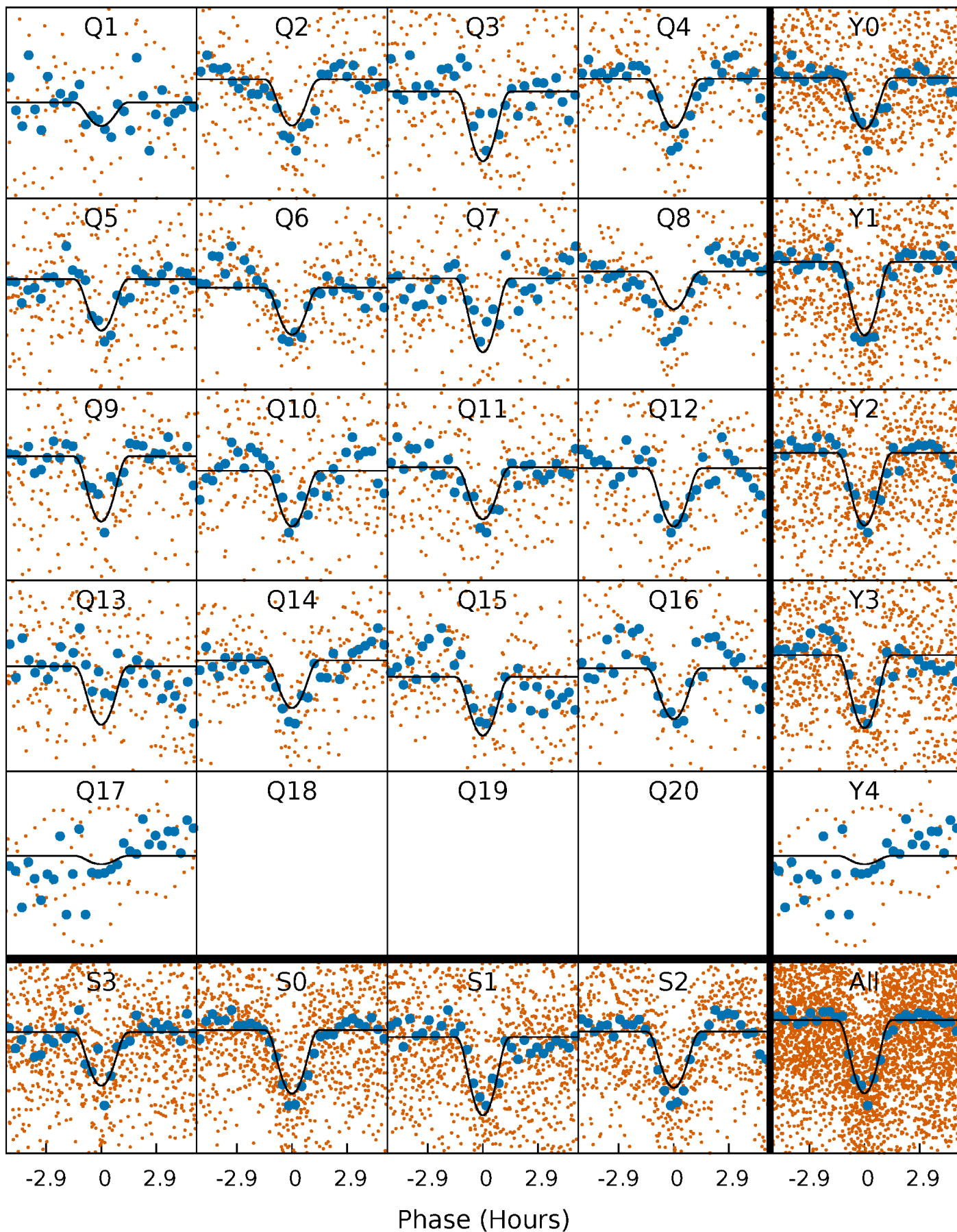
PDC Quarter-Phased Transit Curves

TCE 006290382-02 P= 6.128133 Days $T_0=133.990619$ (BKJD)



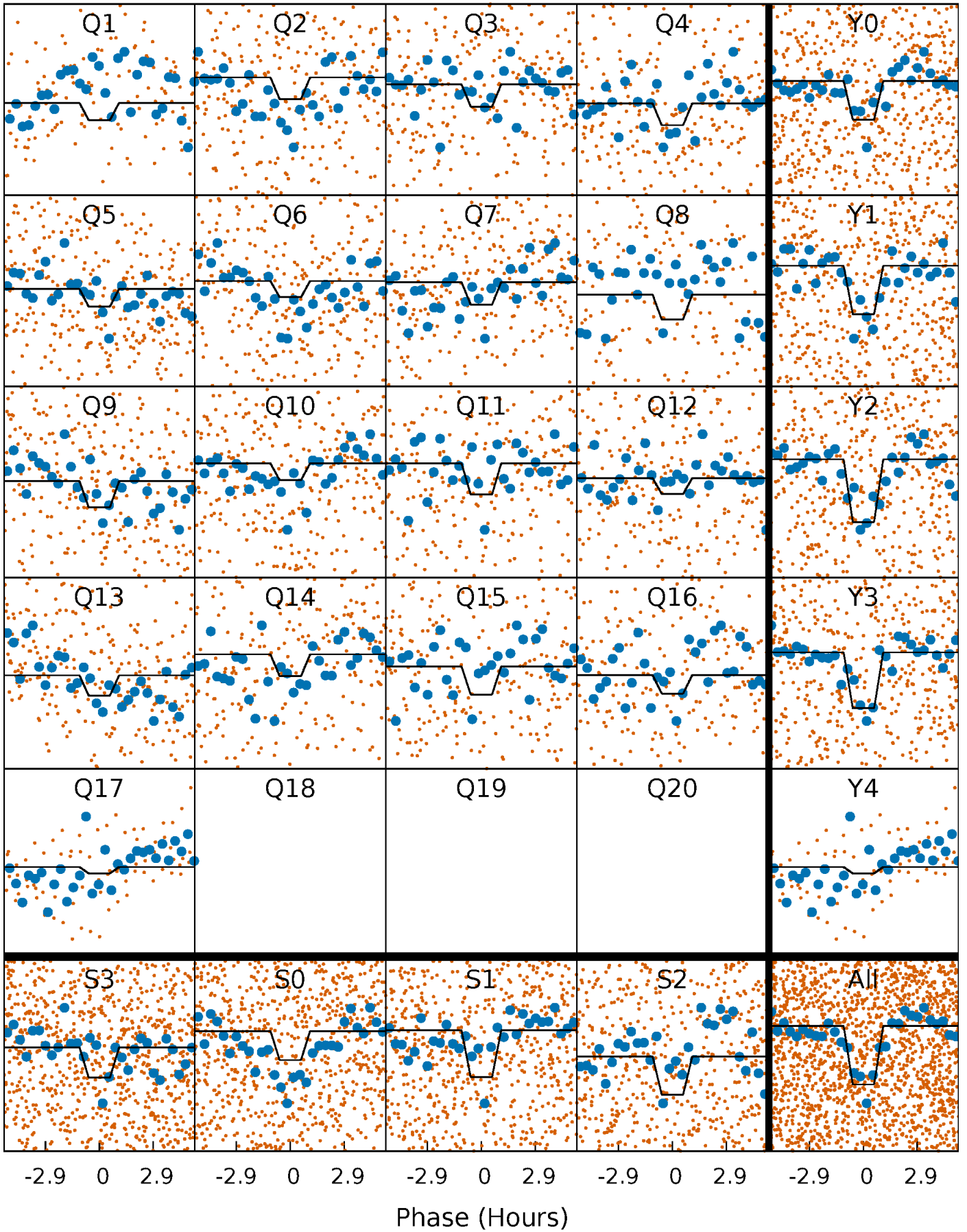
DV Quarter-Phased Transit Curves

TCE 006290382-02 P= 6.128133 Days $T_0=133.990619$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

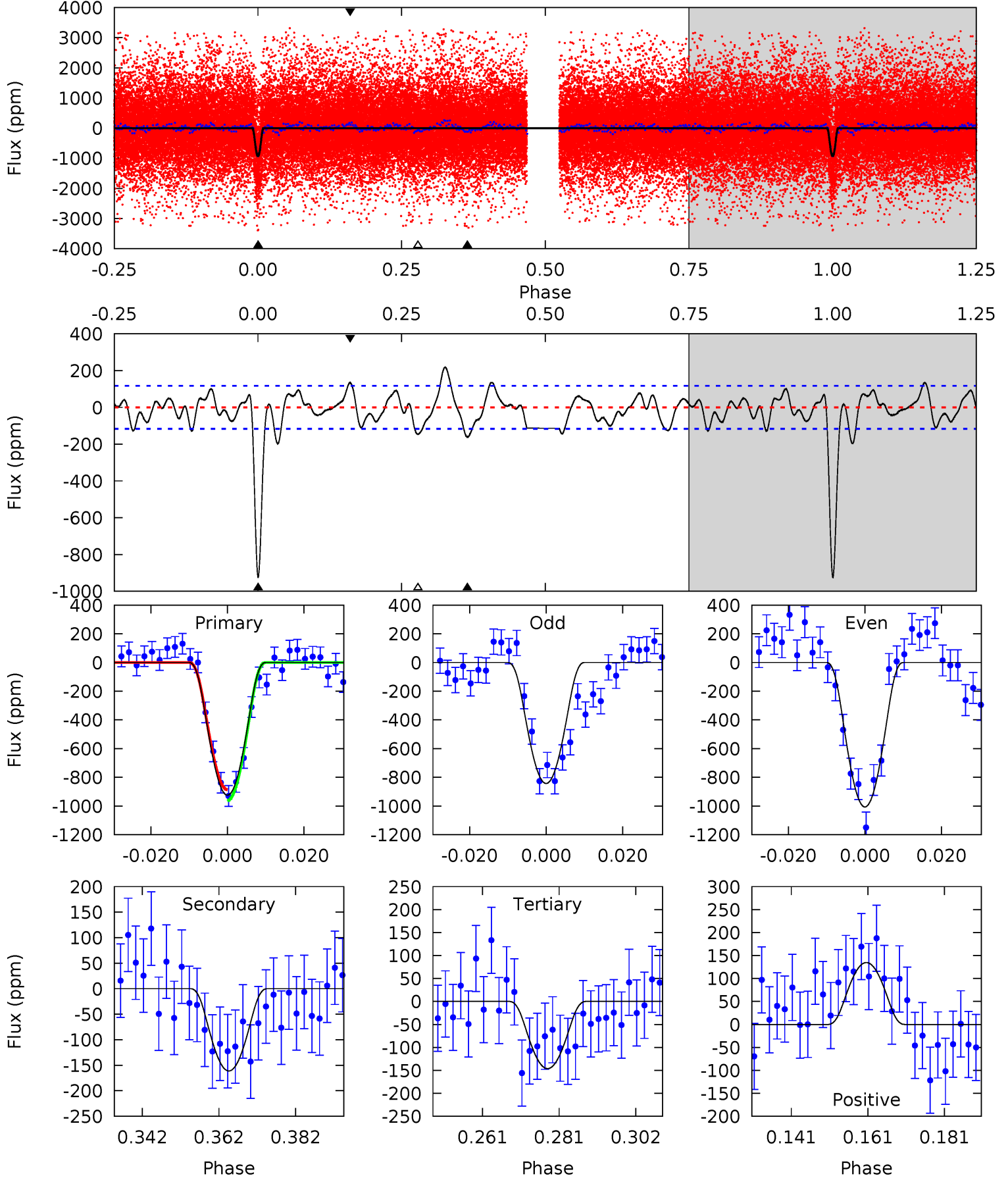
TCE 006290382-02 P= 6.128141 Days $T_0=133.988070$ (BKJD)



DV Model-Shift Uniqueness Test

006290382-02, P = 6.128133 Days, E = 127.862486 Days

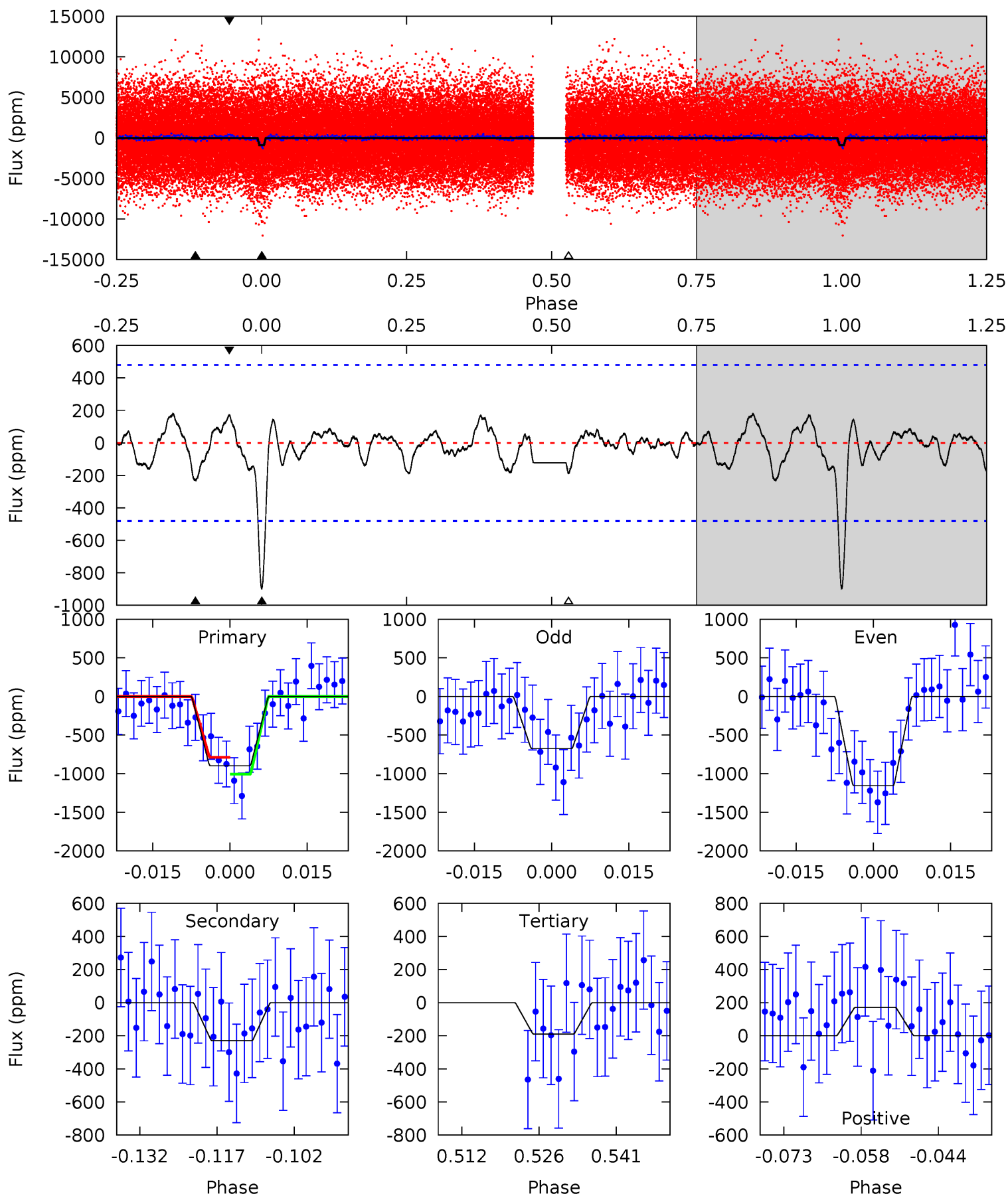
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
38.6	6.73	6.10	5.63	4.89	2.32	2.86	32.5	33.0	0.63	1.10	3.43	1.01	0.19	1.57



Alt Model-Shift Uniqueness Test

006290382-02, P = 6.128141 Days, E = 127.859929 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.25	2.38	1.96	1.77	4.95	2.44	0.80	7.29	7.48	0.42	0.61	2.46	1.05	0.17	1.12



Stellar Parameters For KIC 006290382

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7245^{+228}_{-330}	$4.158^{+0.132}_{-0.198}$	$-0.140^{+0.250}_{-0.350}$	$1.667^{+0.555}_{-0.341}$	$1.460^{+0.219}_{-0.241}$	$0.444^{+0.336}_{-0.235}$
	+3%/-5%	+3%/-5%	+179%/-250%	+33%/-20%	+15%/-17%	+76%/-53%
Source	KIC0	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 006290382-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-161 ± 24	$9.70^{+6.05}_{-5.00}$	2134^{+167}_{-153}	3816^{+1207}_{-566}	$4.846^{+18.442}_{-2.915}$
Alt.	-231 ± 97	$6.72^{+4.70}_{-4.07}$	2131^{+167}_{-146}	4678^{+2578}_{-928}	15^{+76}_{-11}

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 $A_{\text{obs}} \gg 1.0$

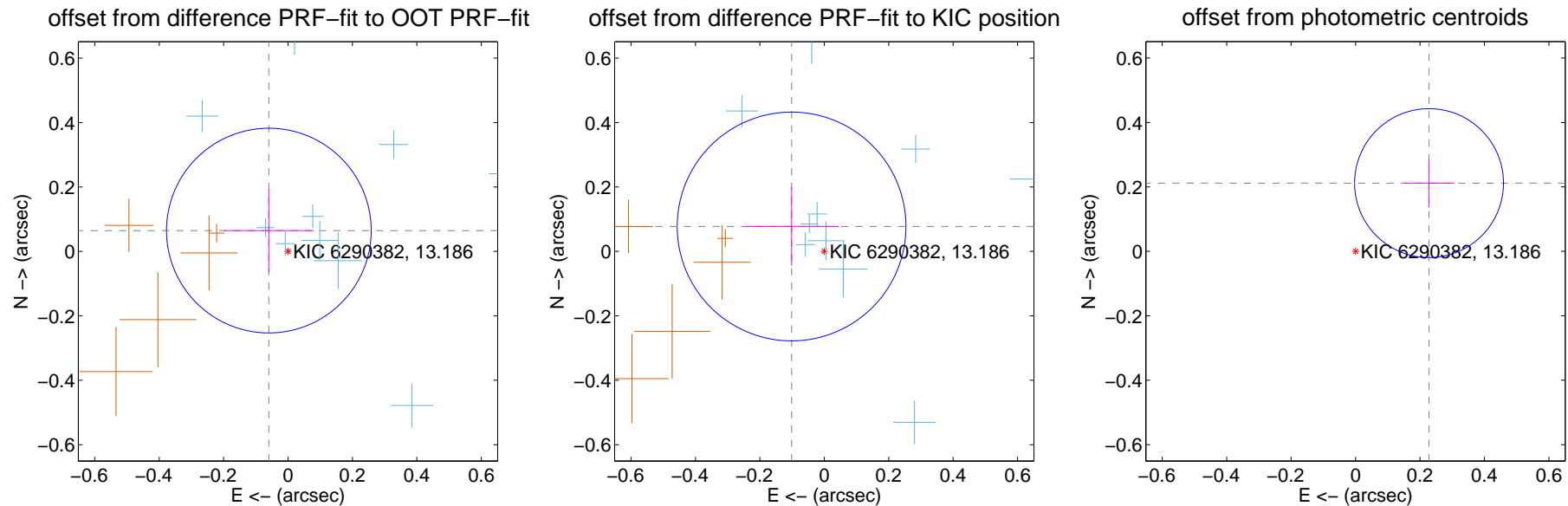
DV Centroid Data

Supplemental centroid analysis for 006290382-02. Kepler magnitude: 13.19. Transit SNR 21.61

There are 10 quarters with good PRF difference image offsets

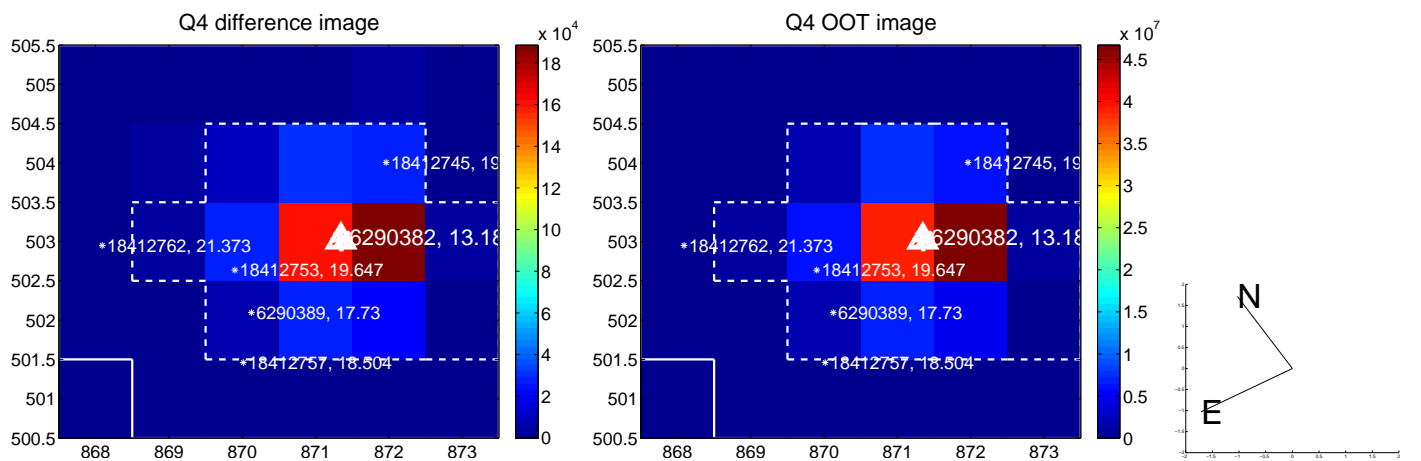
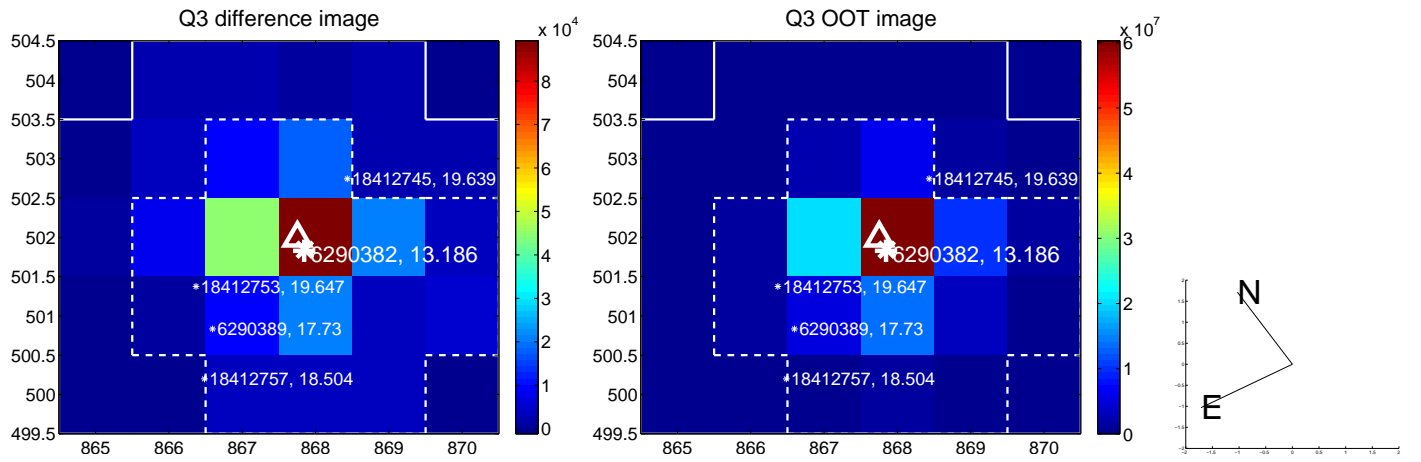
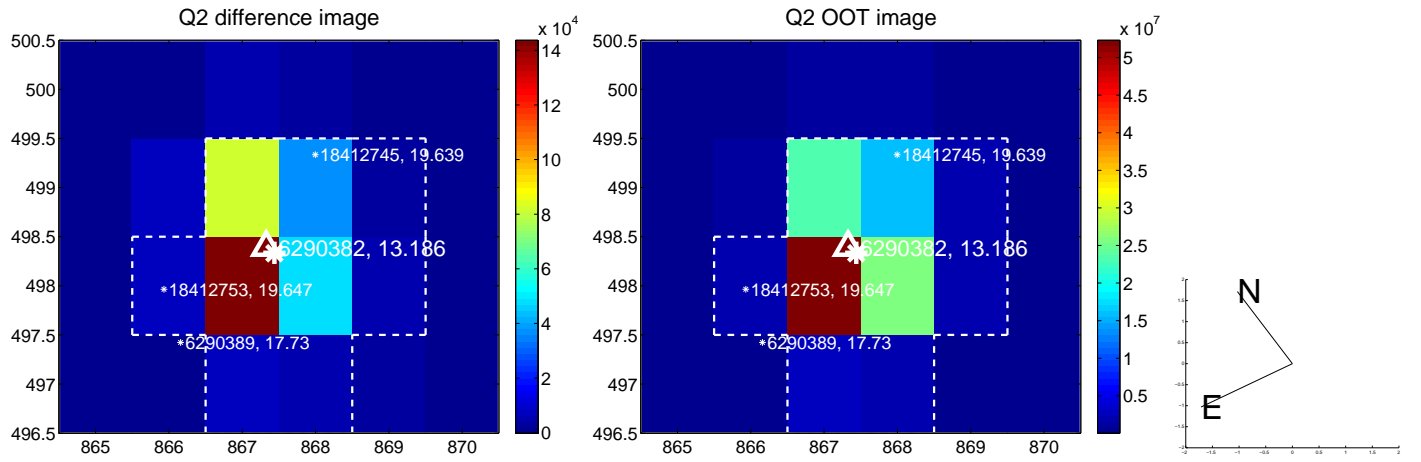
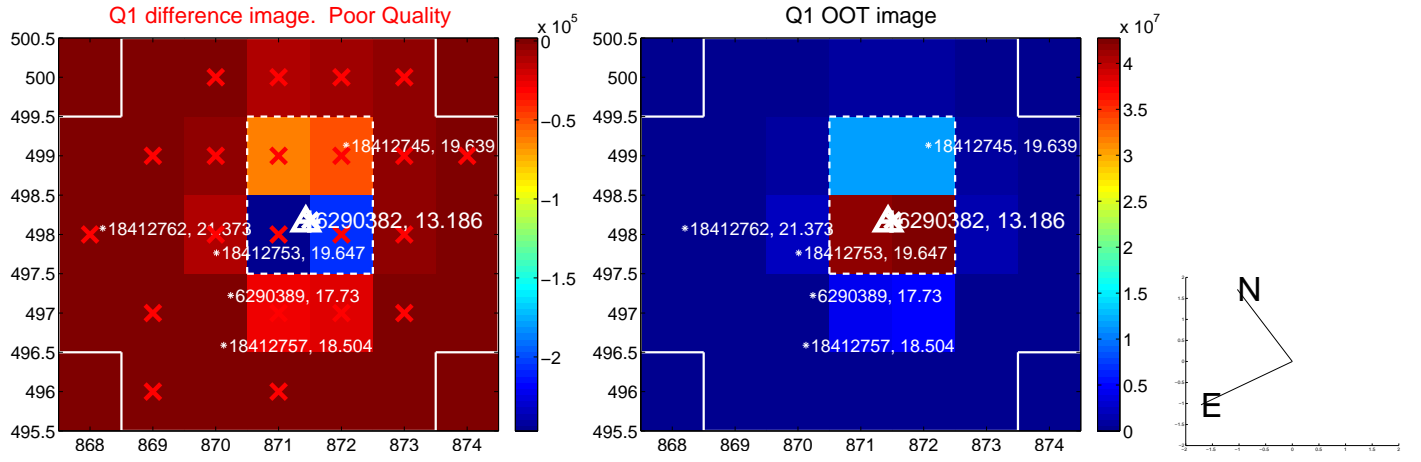
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.088 ± 0.106	0.83	0.059 ± 0.139	0.065 ± 0.130
PRF-fit source offset from KIC position	0.128 ± 0.118	1.08	0.102 ± 0.147	0.077 ± 0.122
photometric centroid source offset	0.31 ± 0.08	4.04	-0.23 ± 0.08	0.21 ± 0.08

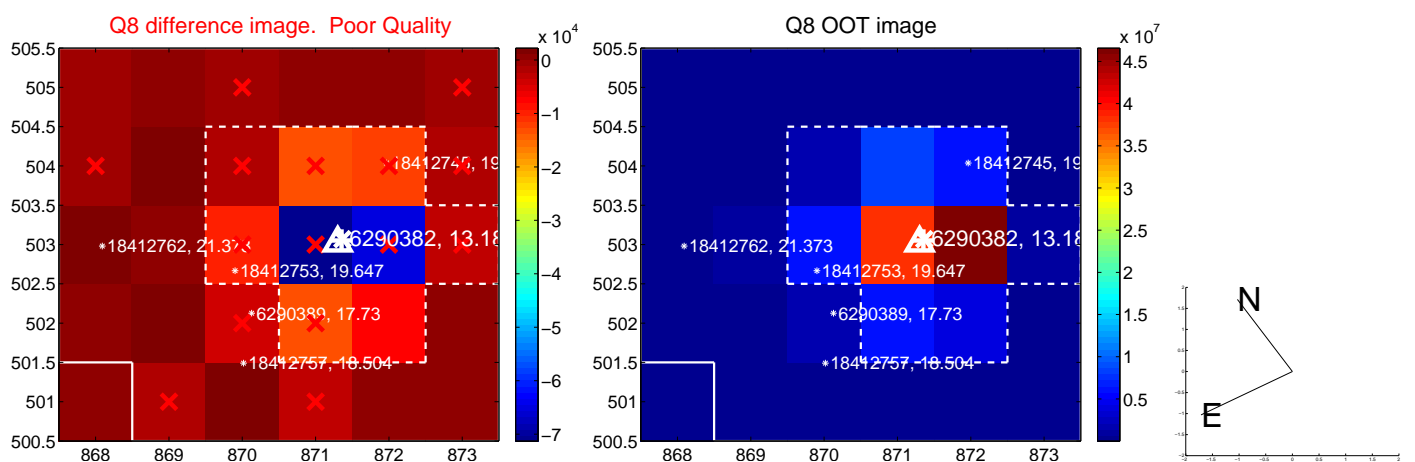
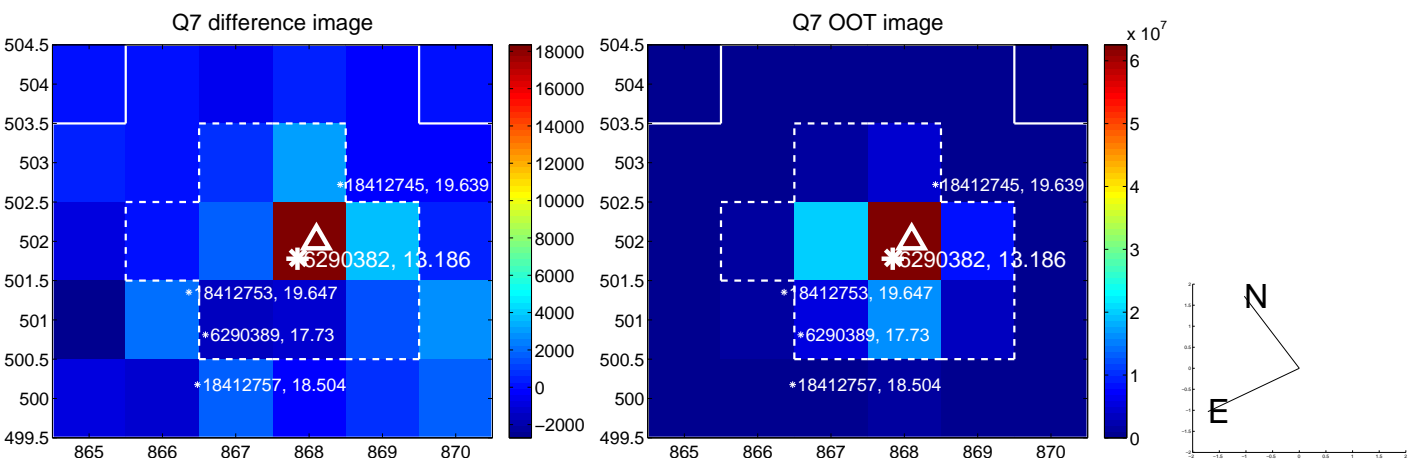
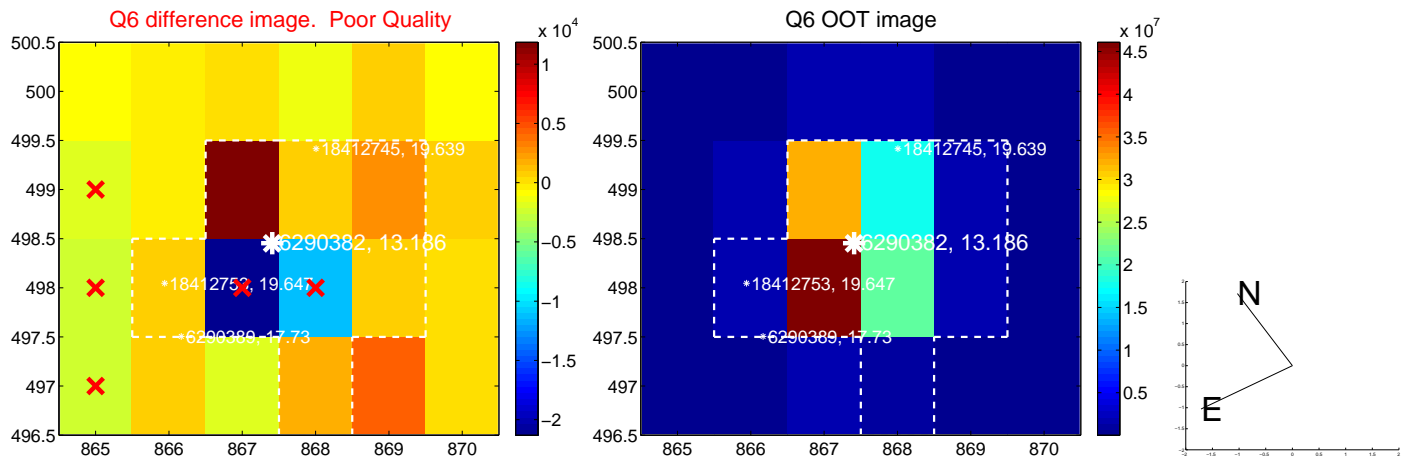
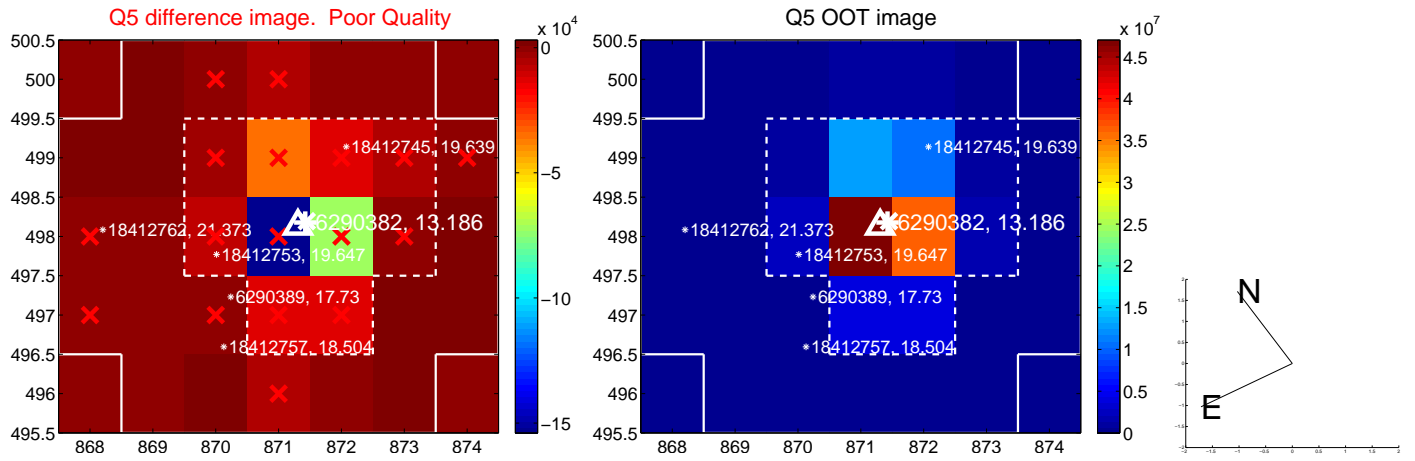


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

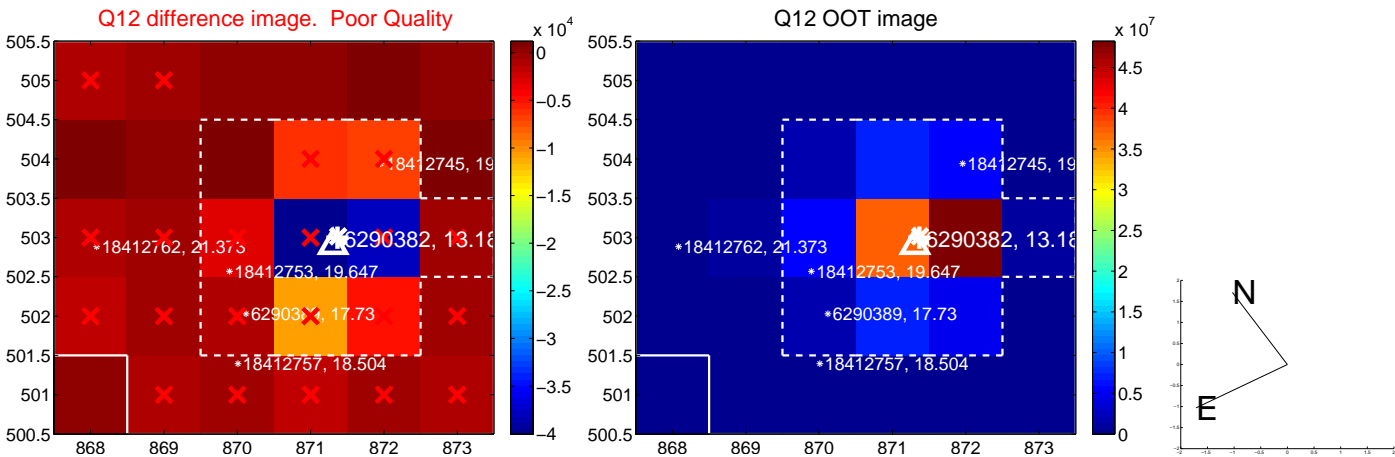
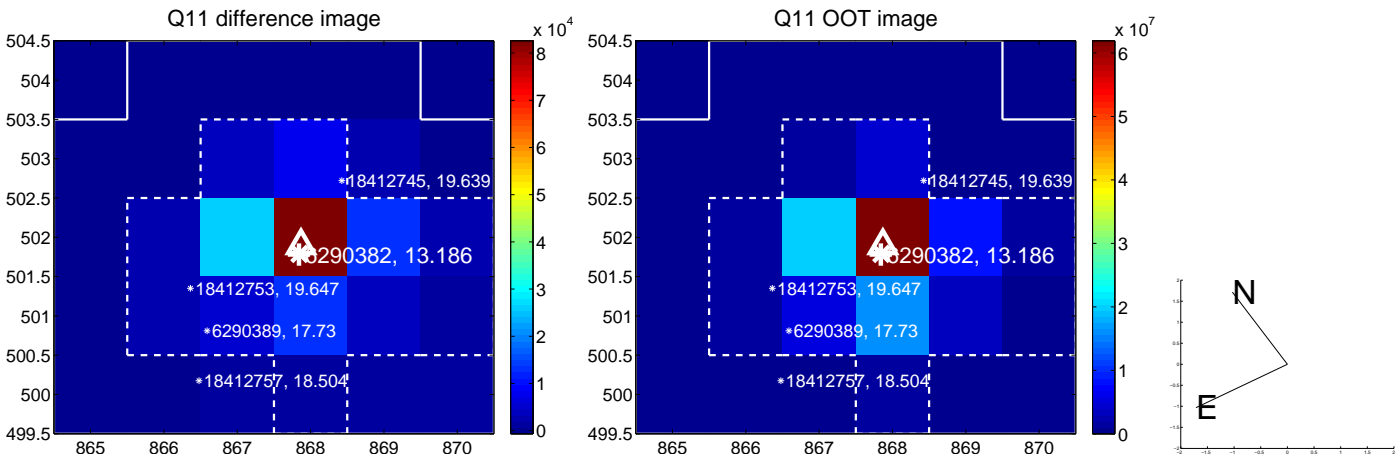
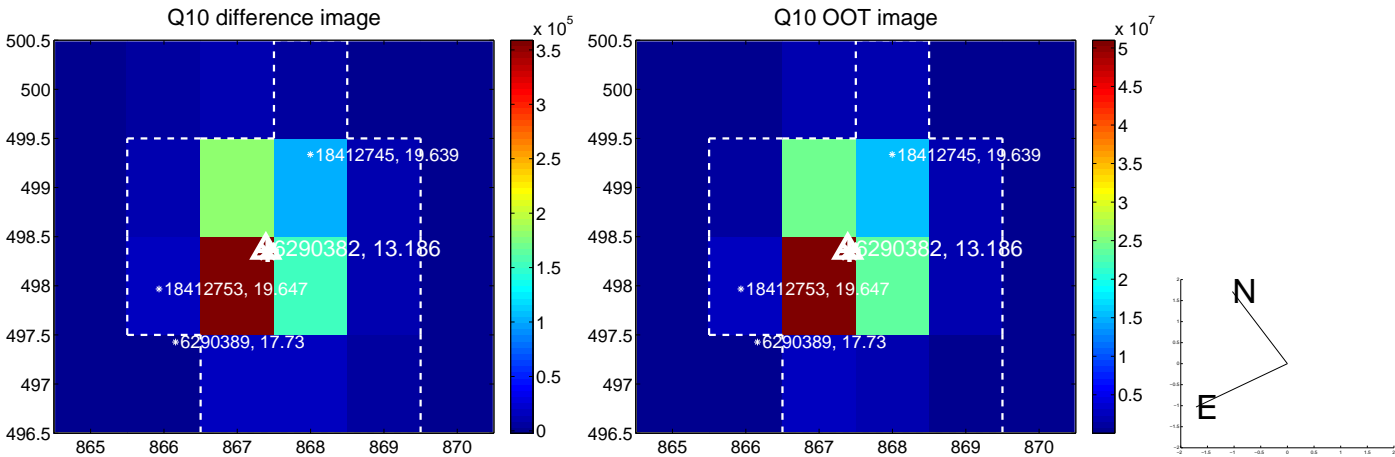
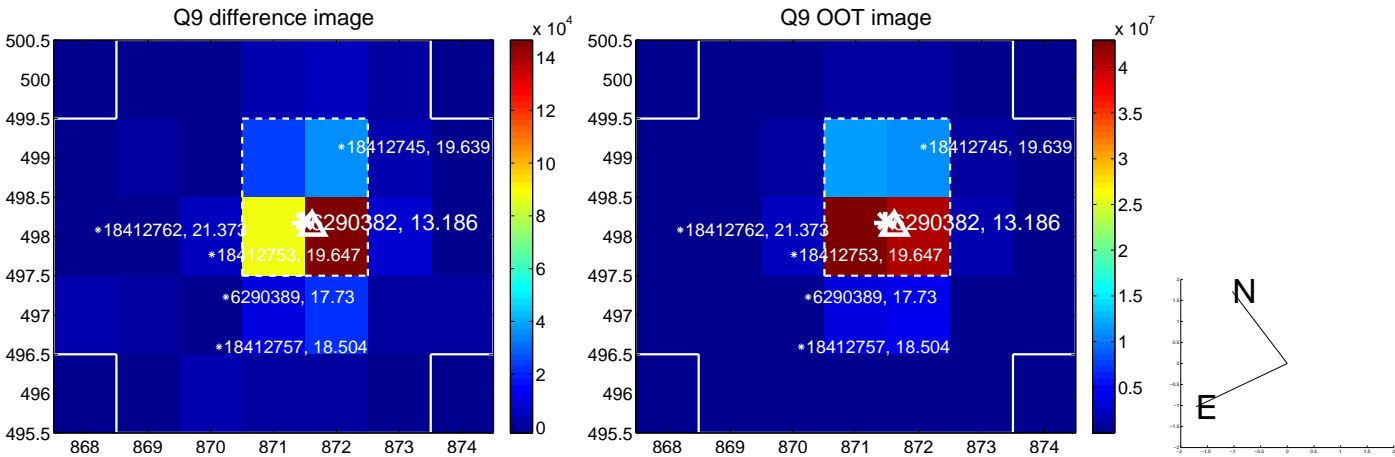
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



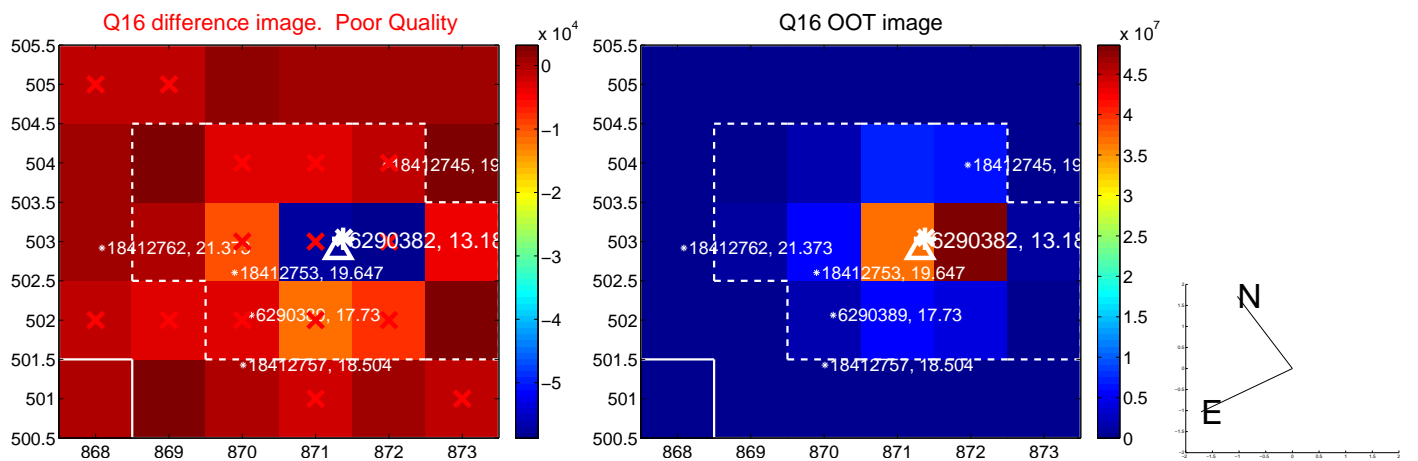
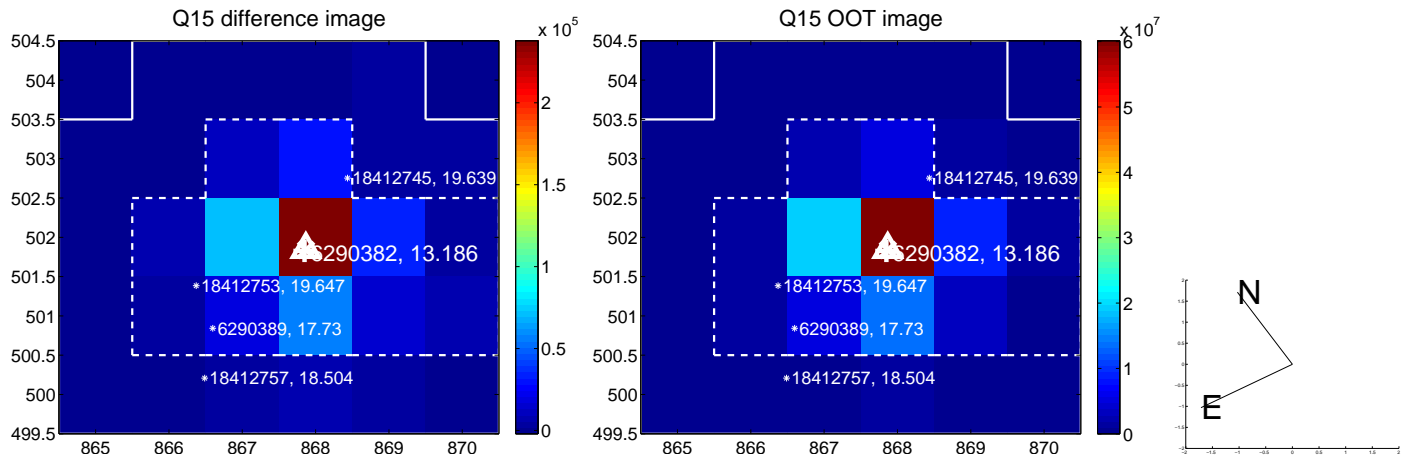
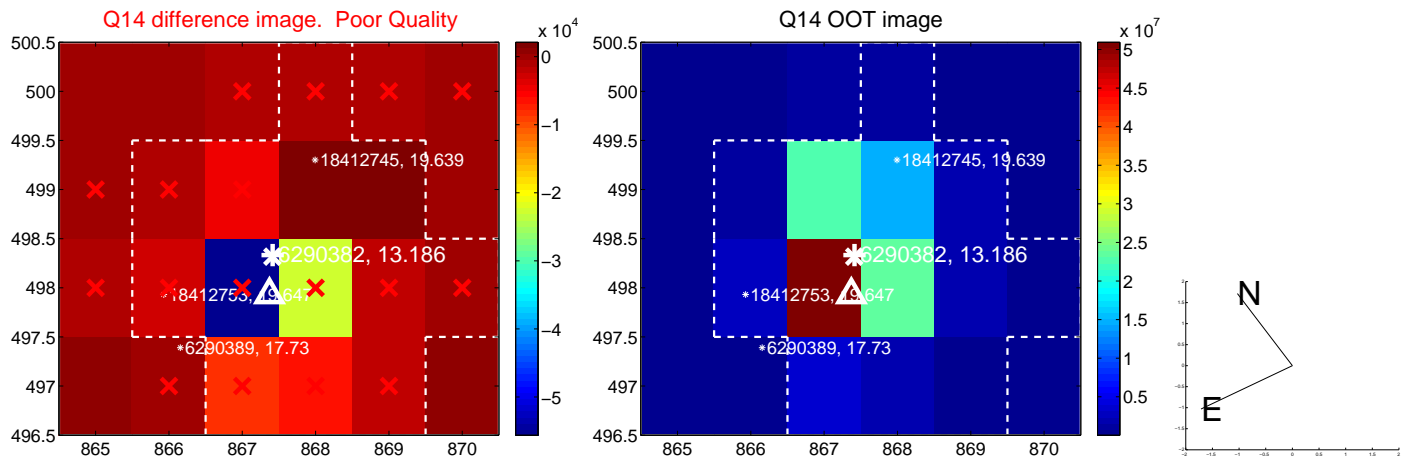
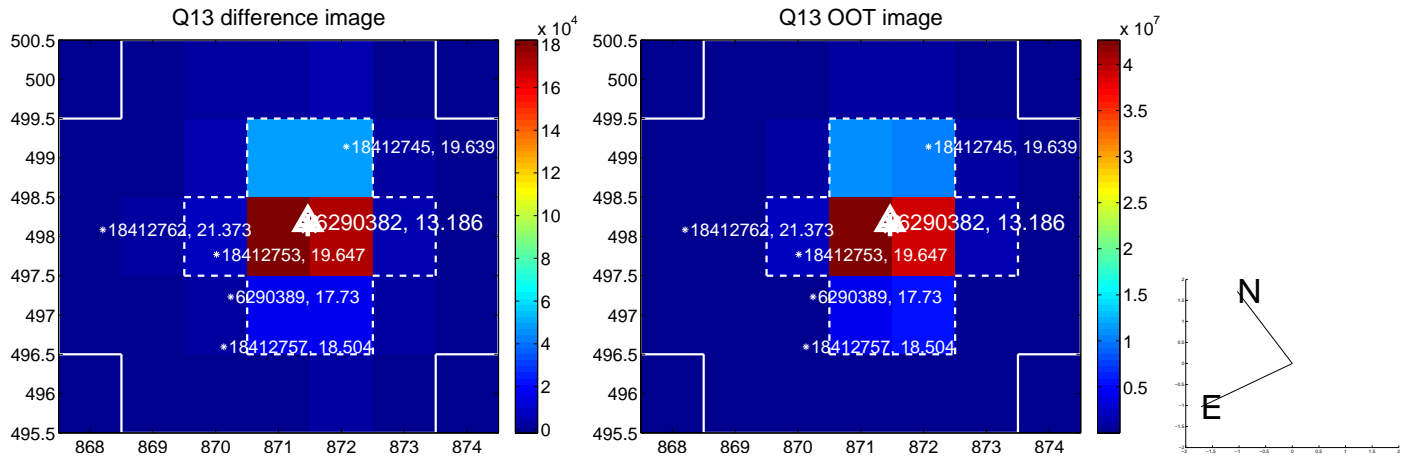
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



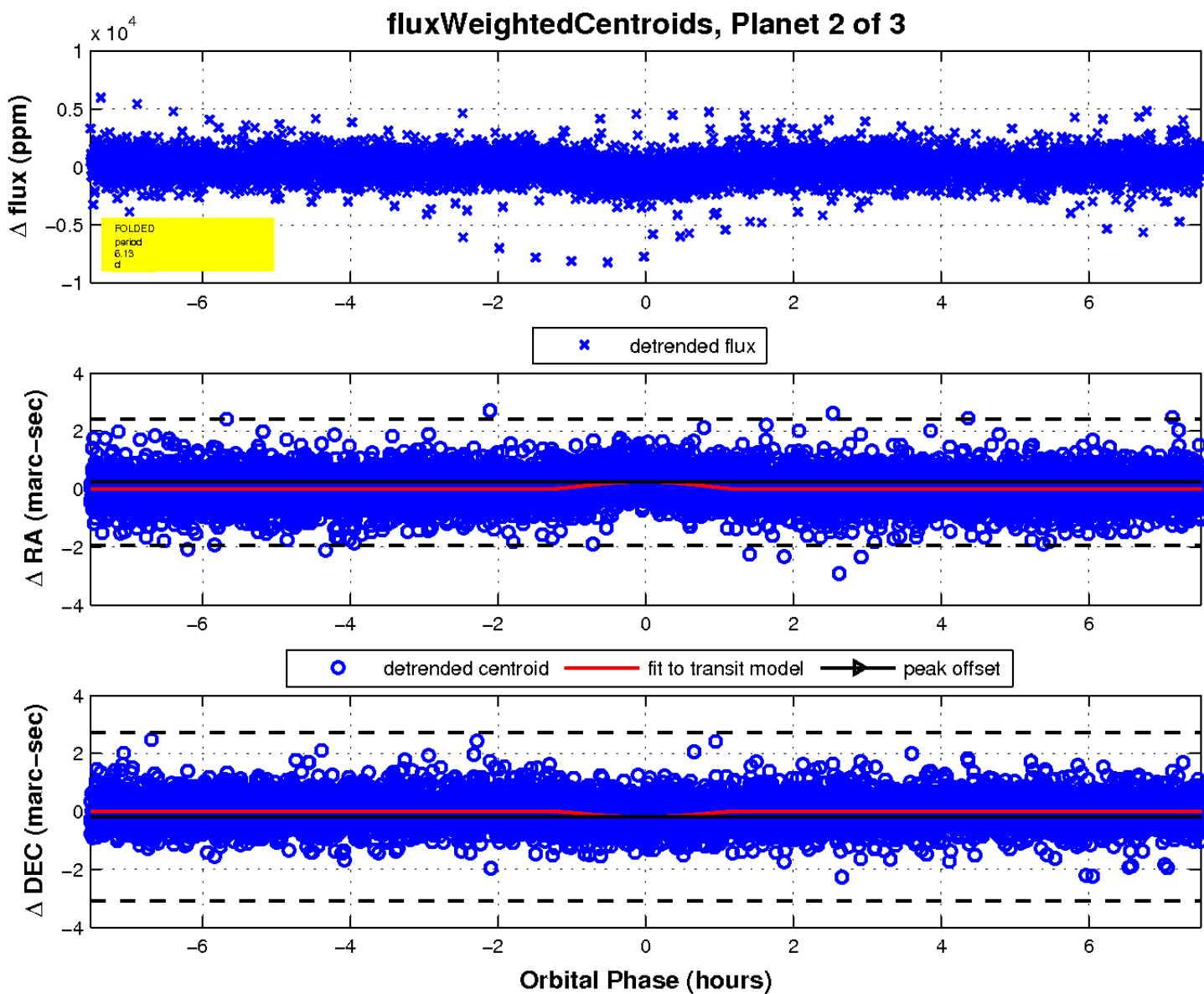
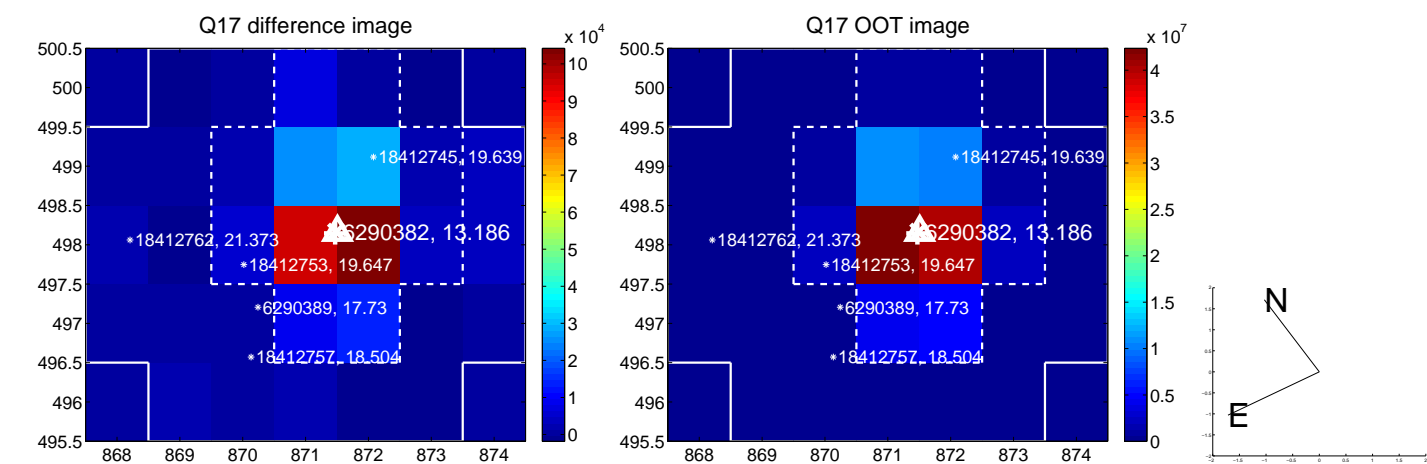
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

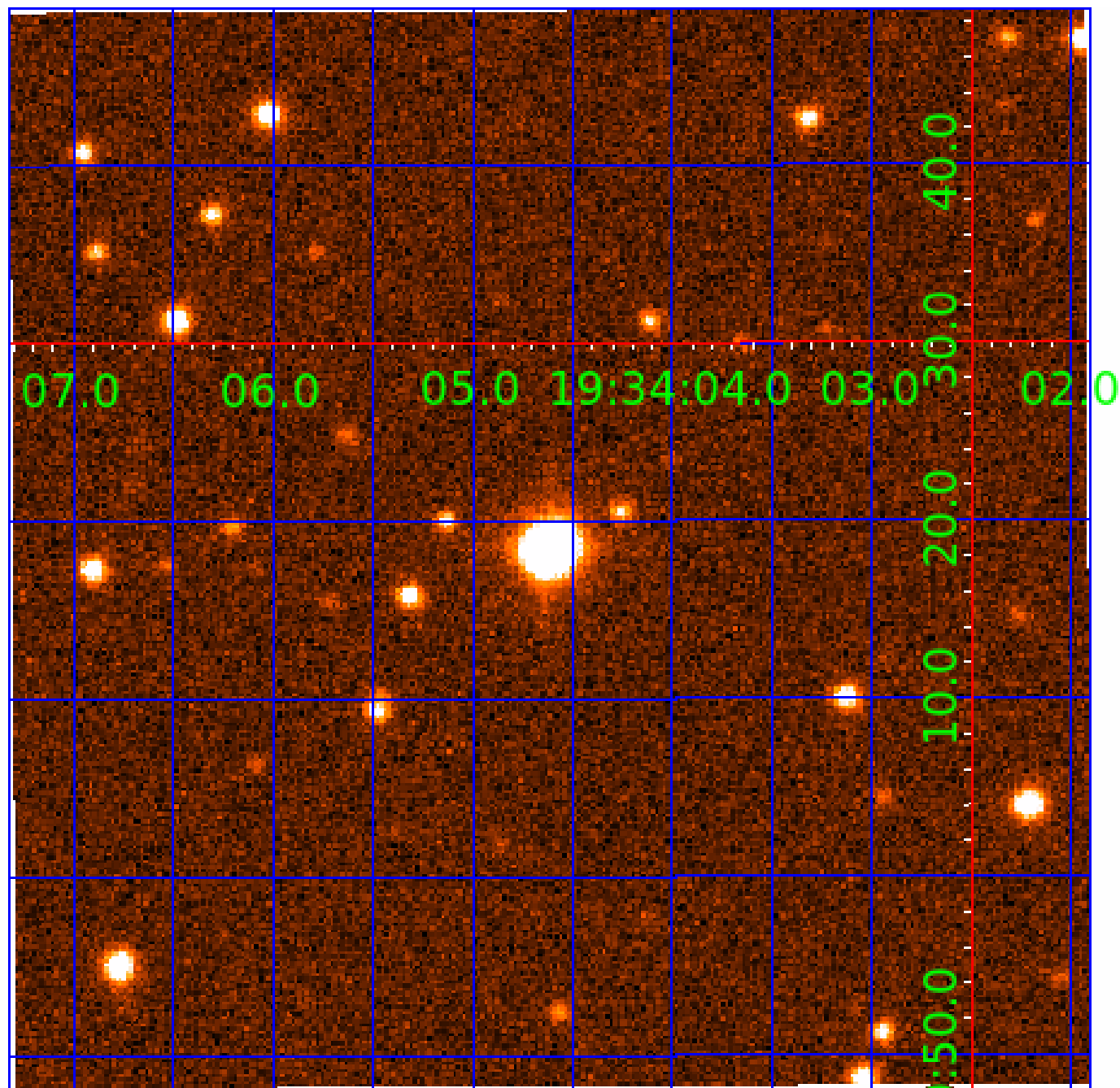


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006290382

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})
006290382-01	OBS	3869.01	6.128141	137.030309	2081.1	2.600	37.4	48.1	1.67	7245	13.95	1241.37
006290382-02	OBS	No	6.128133	133.990619	875.9	2.508	17.9	21.6	1.67	7245	9.27	1241.37
006290382-03	OBS	No	0.777670	132.009030	99.8	2.533	9.8	8.3	1.67	7245	1.93	19466.06

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006290382-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
006290382-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006290382-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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 006290382-03

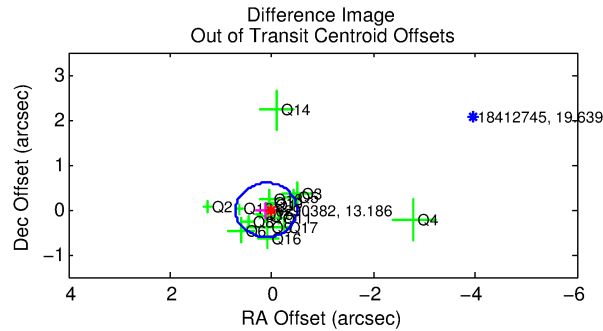
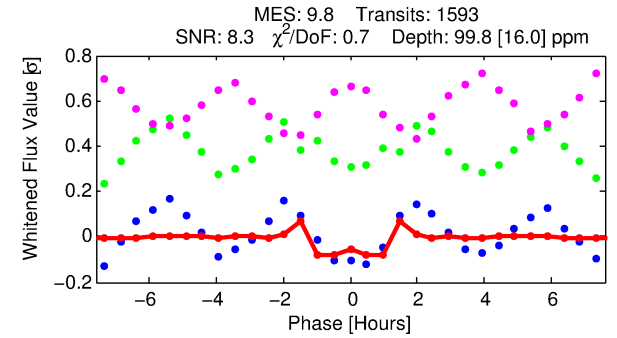
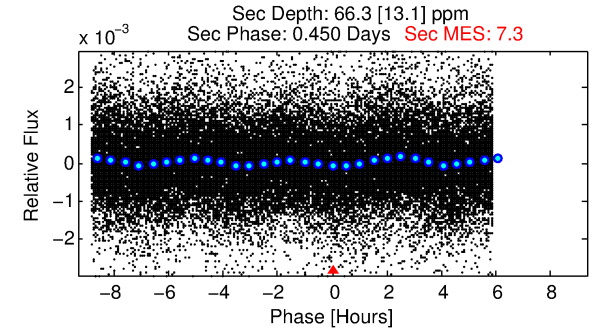
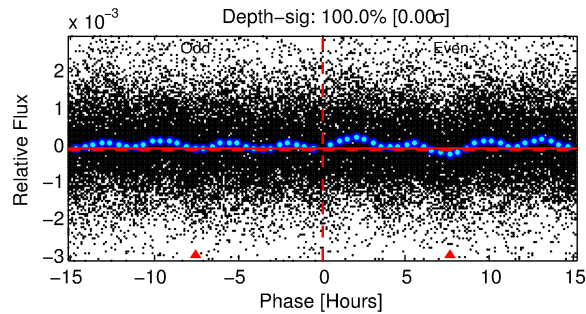
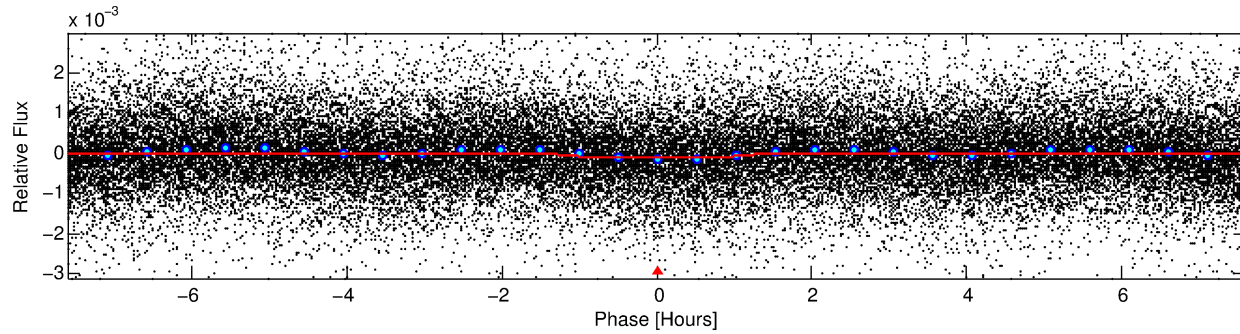
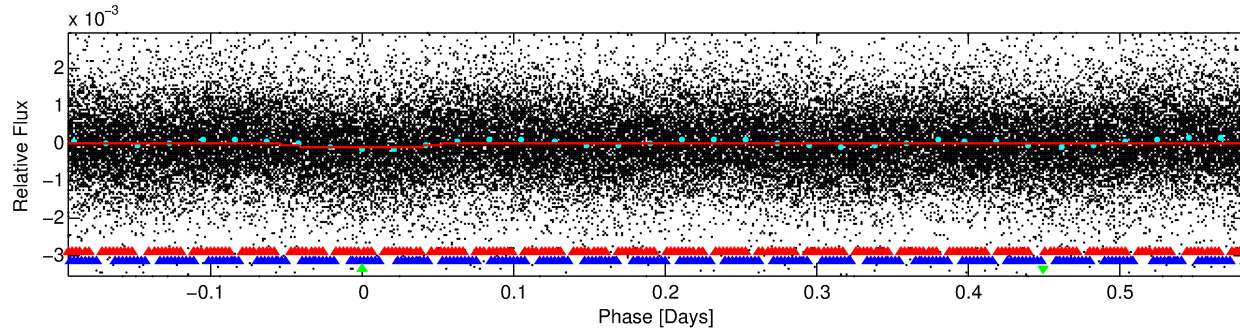
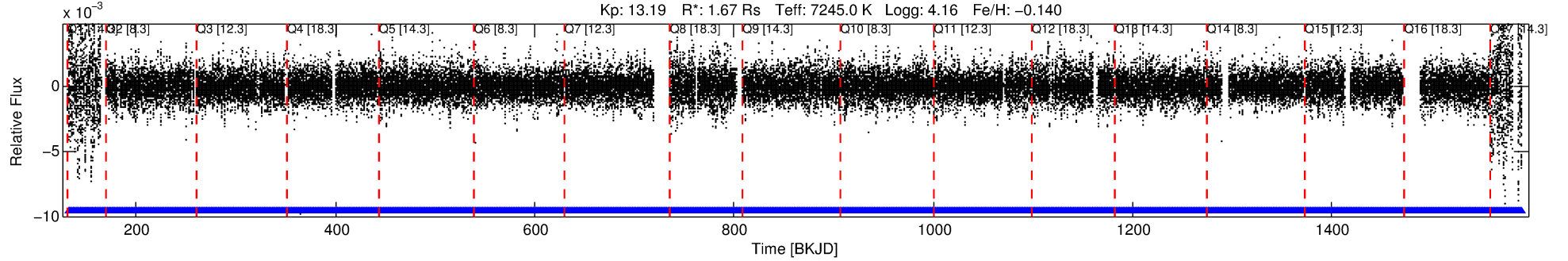
No Significant Match Found

DV One-Page Summary

KIC: 6290382 Candidate: 3 of 3 Period: 0.778 d

KOI: K03869 Corr: No Ephemeris Match

Kp: 13.19 R*: 1.67 Rs Teff: 7245.0 K Logg: 4.16 Fe/H: -0.140



DV Fit Results:

Period = 0.77767 [0.00001] d
Epoch = 132.0090 [0.0014] BKJD
Rp/R* = 0.0106 [0.0024]
a/R* = 1.43 [0.92]
b = 0.90 [0.27]
Seff = 19466.06 [8139.50]
Teq = 3012 [315] K
Rp = 1.93 [0.77] Re
a = 0.0188 [0.0050] AU
Ag = 3.44 [2.12] [1.15σ]
Teffp = 6344 [826] K [3.77σ]

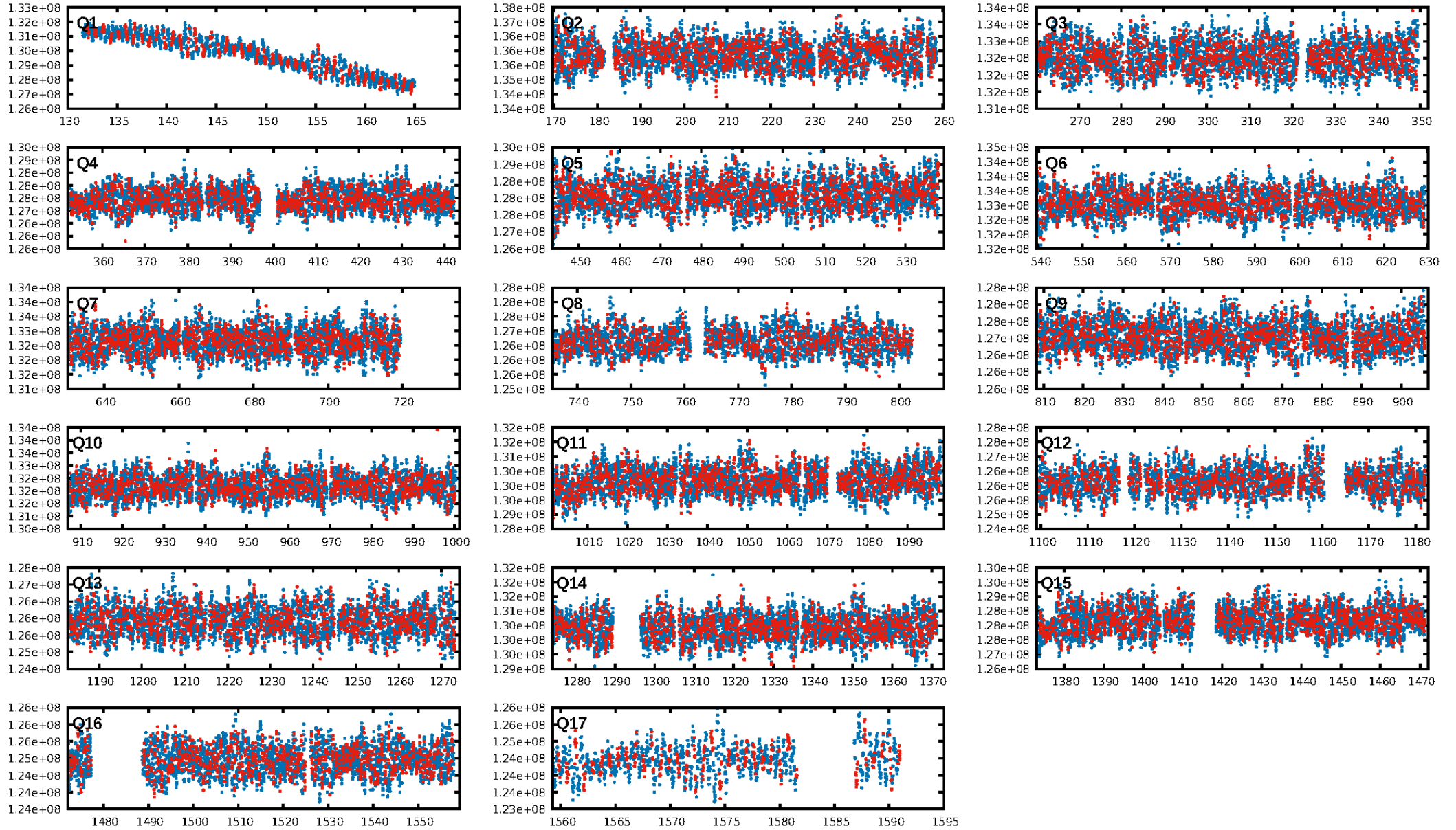
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [36.03σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.38e-18
RollingBand-fgt: 1.00 [1520/1520]
GhostDiagnostic-chr: 2.258
Centroid-sig: 0.0%
Centroid-so: 0.384 arcsec [2.11σ]
OotOffset-rm: 0.110 arcsec [0.55σ]
KicOffset-rm: 0.199 arcsec [0.95σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.65 [11/17]
DiffImageOverlap-fno: 1.00 [17/17]

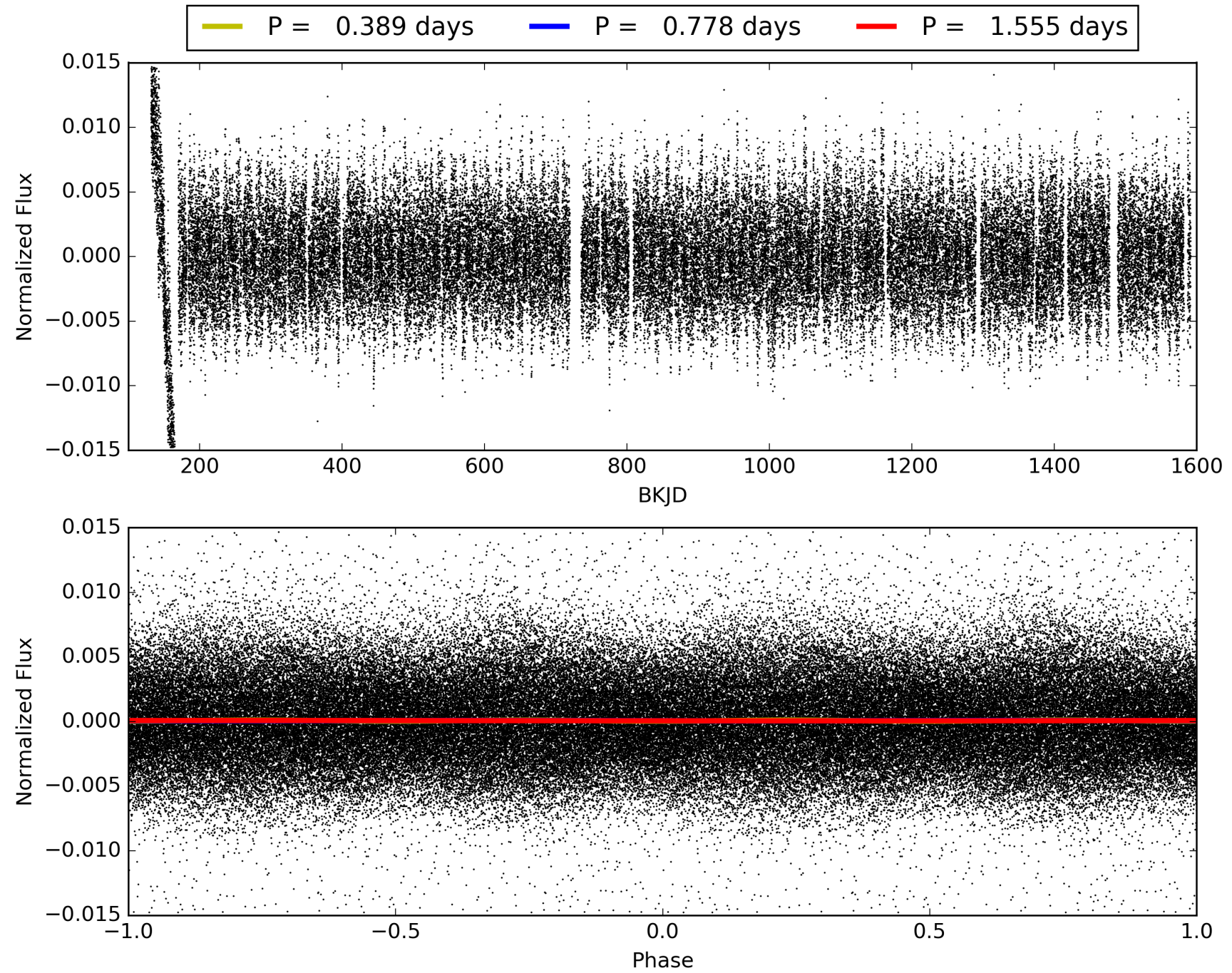
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 15:07:14 Z

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

TCE 006290382-03, PDC Light Curves

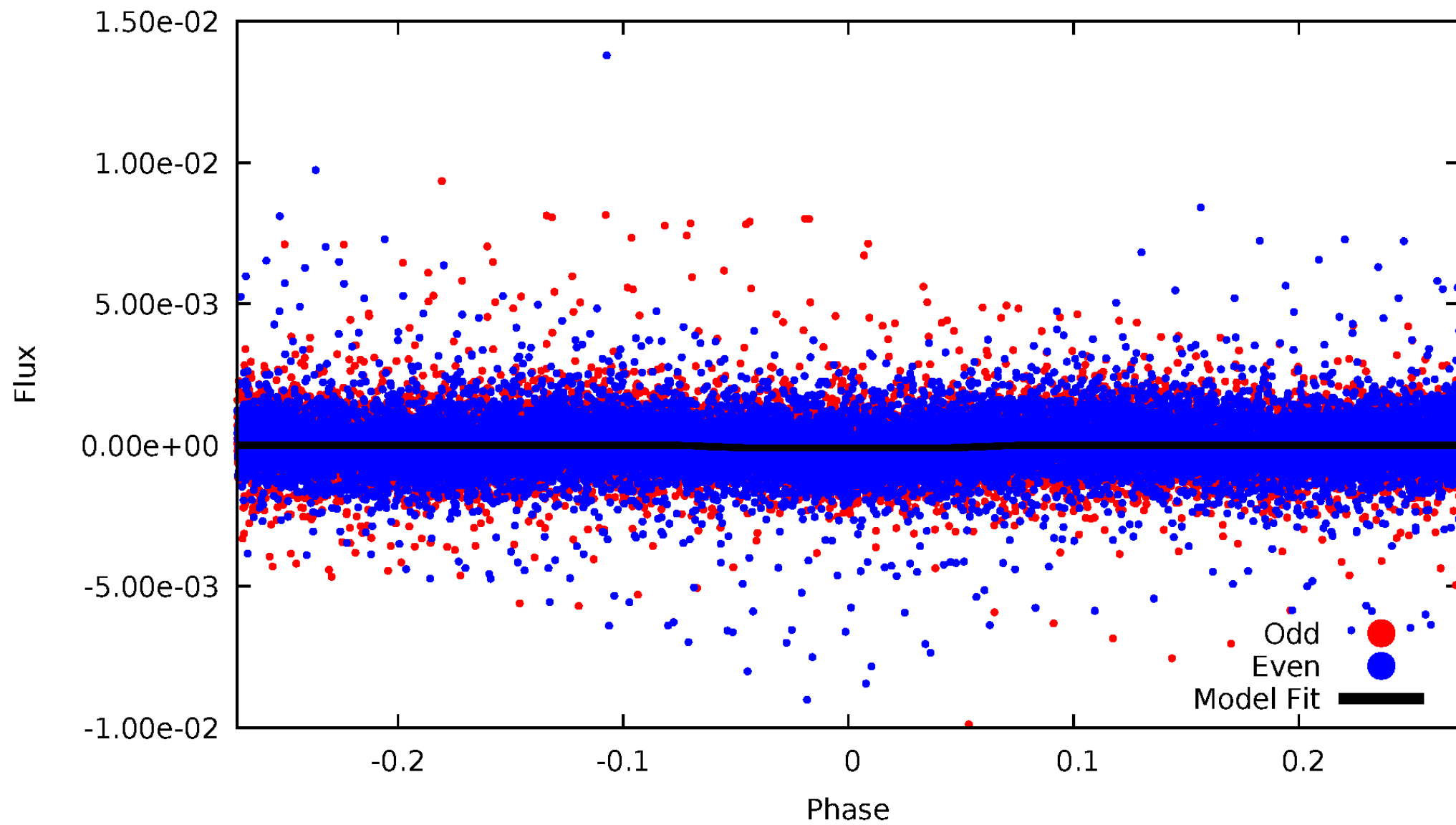


TCE 006290382-03



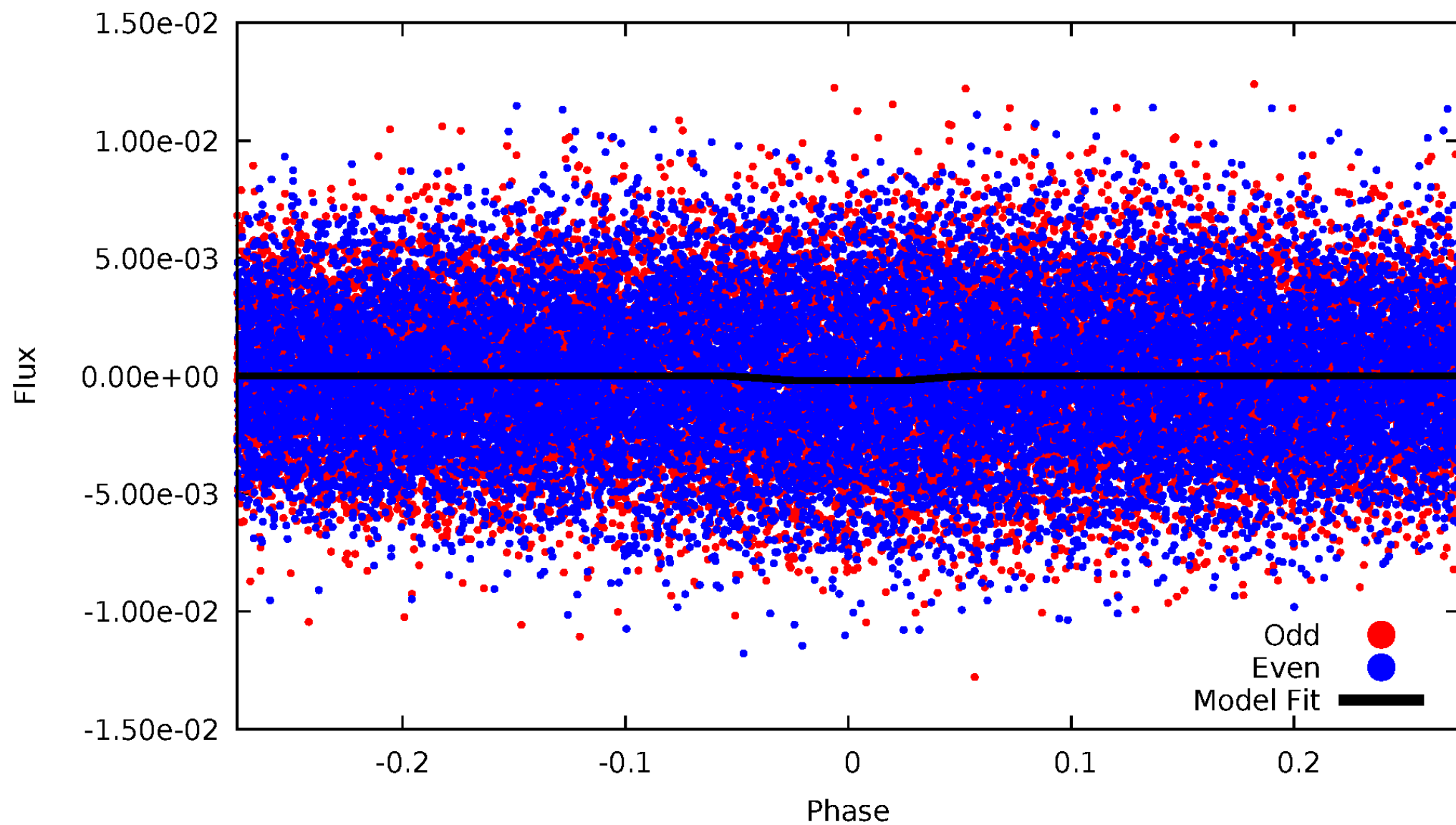
DV Odd/Even

TCE 006290382-03



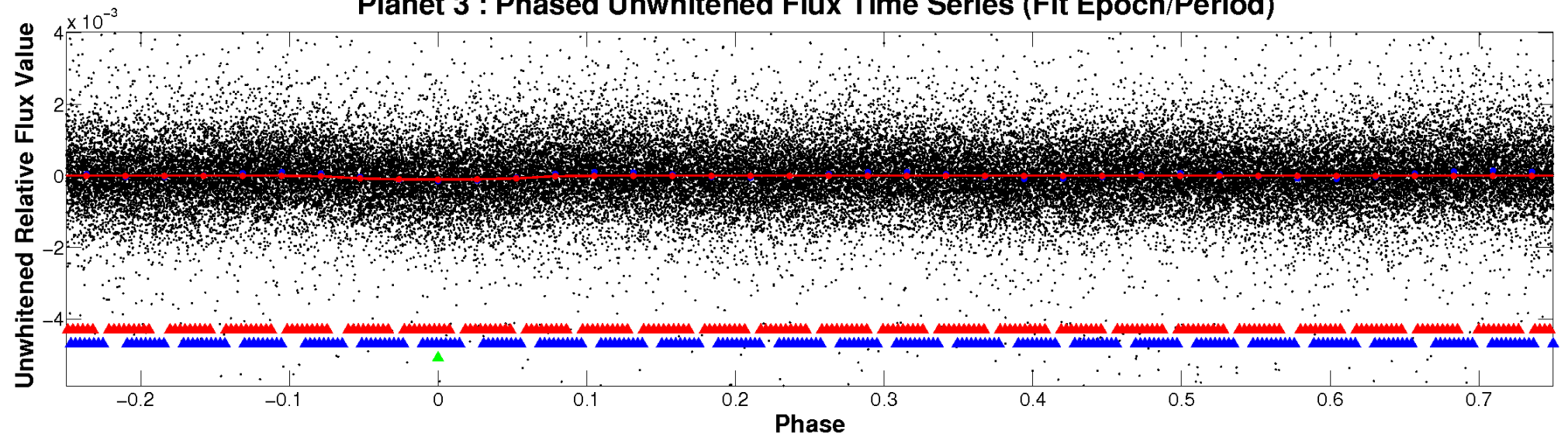
ALT Odd/Even

TCE 006290382-03

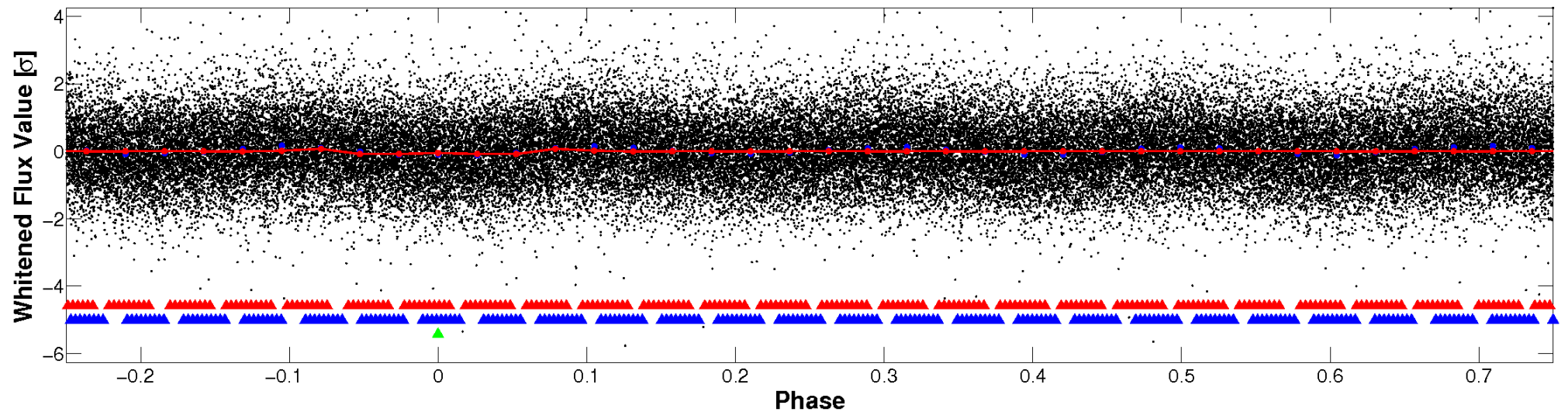


Non-Whitened Vs. Whitened Light Curve

Planet 3 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

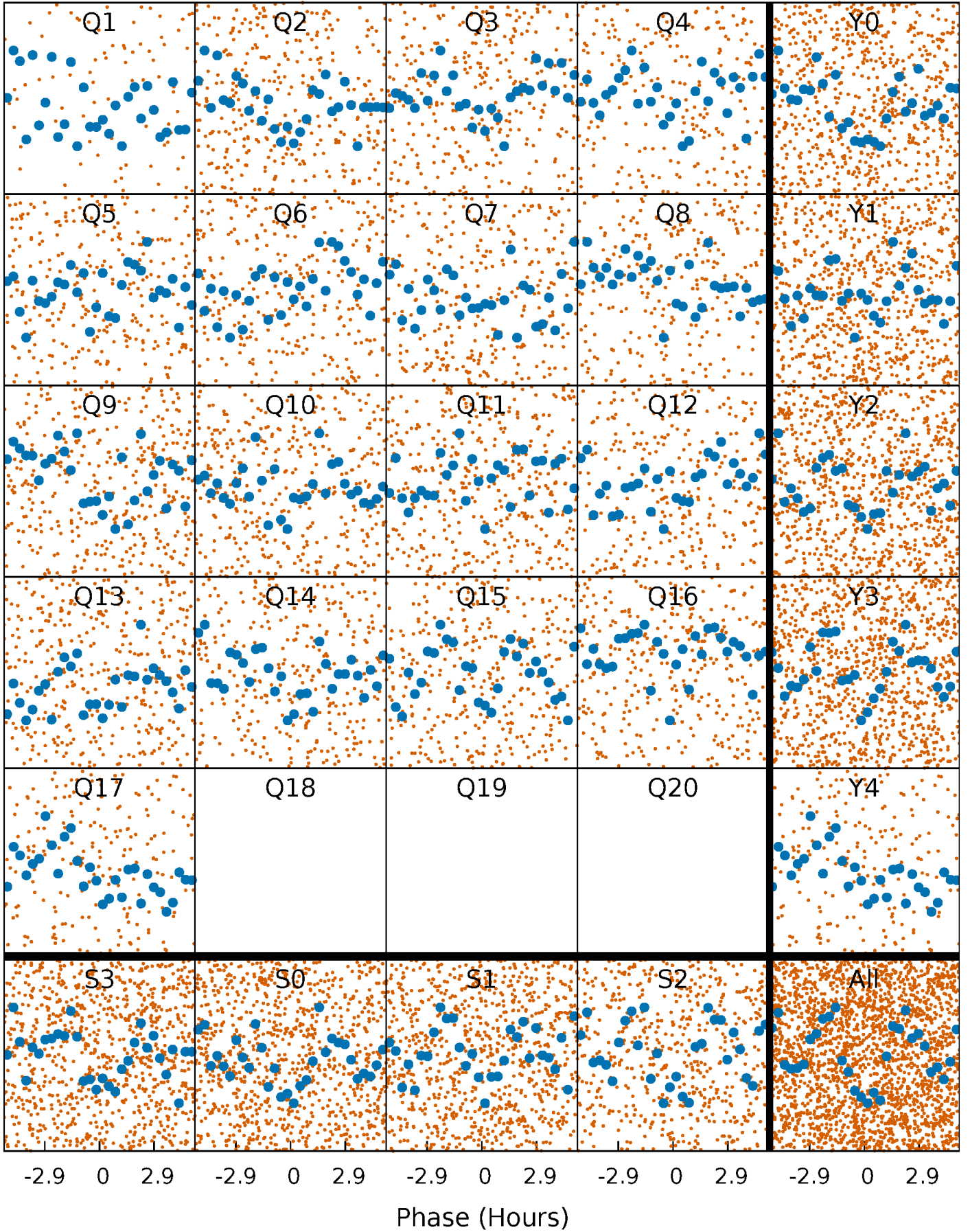


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



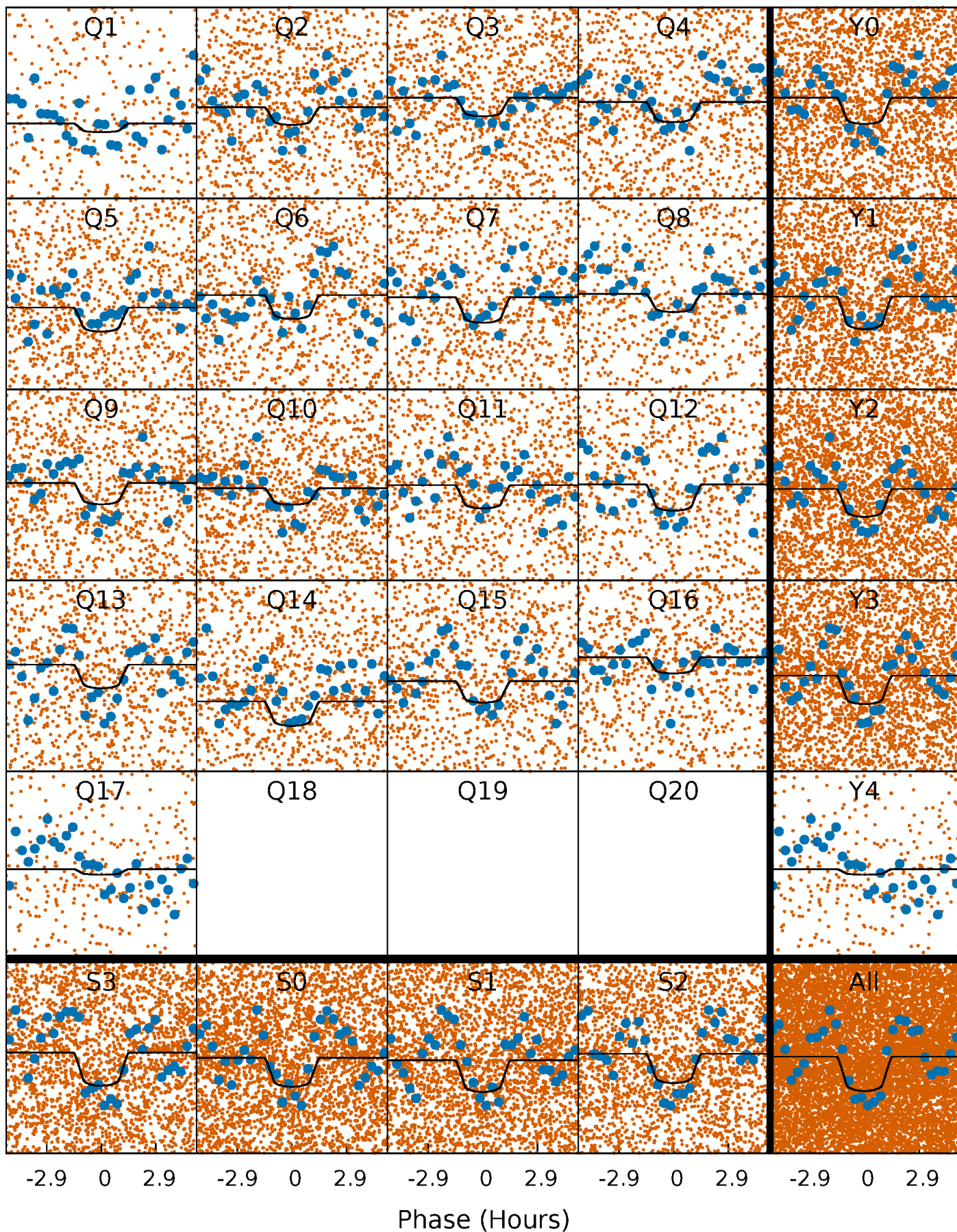
PDC Quarter-Phased Transit Curves

TCE 006290382-03 P= 0.777670 Days $T_0=132.009030$ (BKJD)



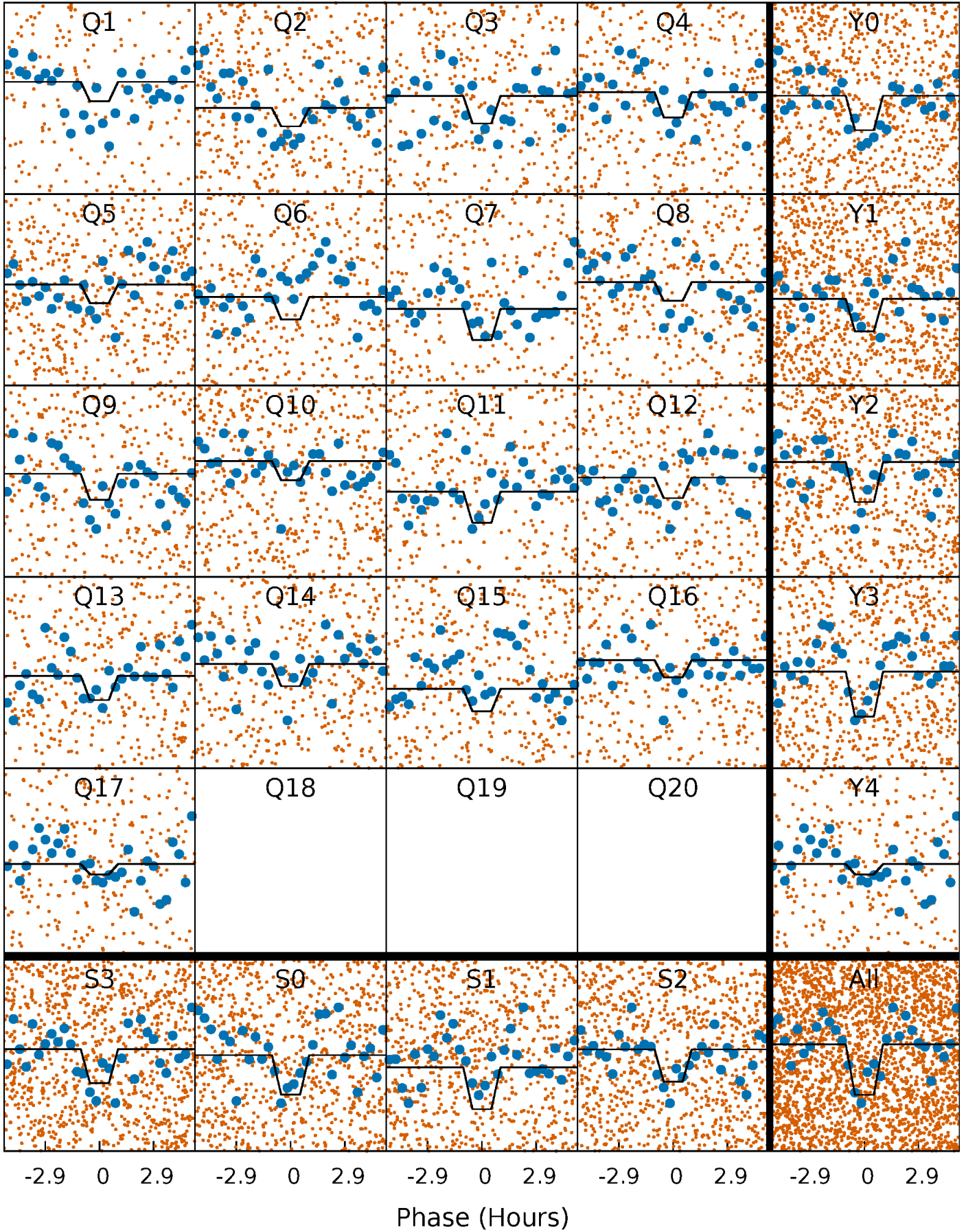
DV Quarter-Phased Transit Curves

TCE 006290382-03 P= 0.777670 Days $T_0=132.009030$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

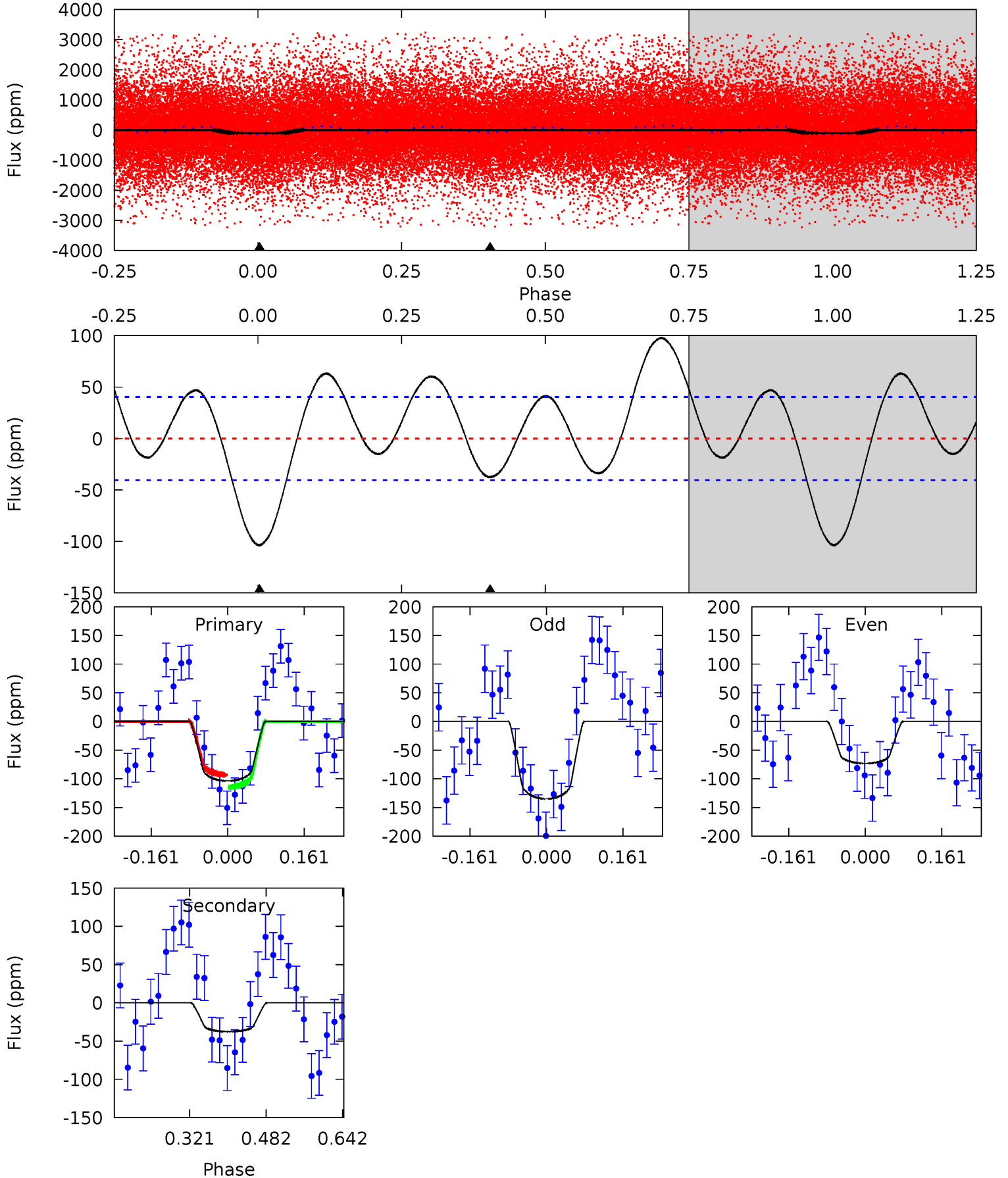
TCE 006290382-03 P= 0.777680 Days $T_0=132.003619$ (BKJD)



DV Model-Shift Uniqueness Test

006290382-03, P = 0.777670 Days, E = 131.231360 Days

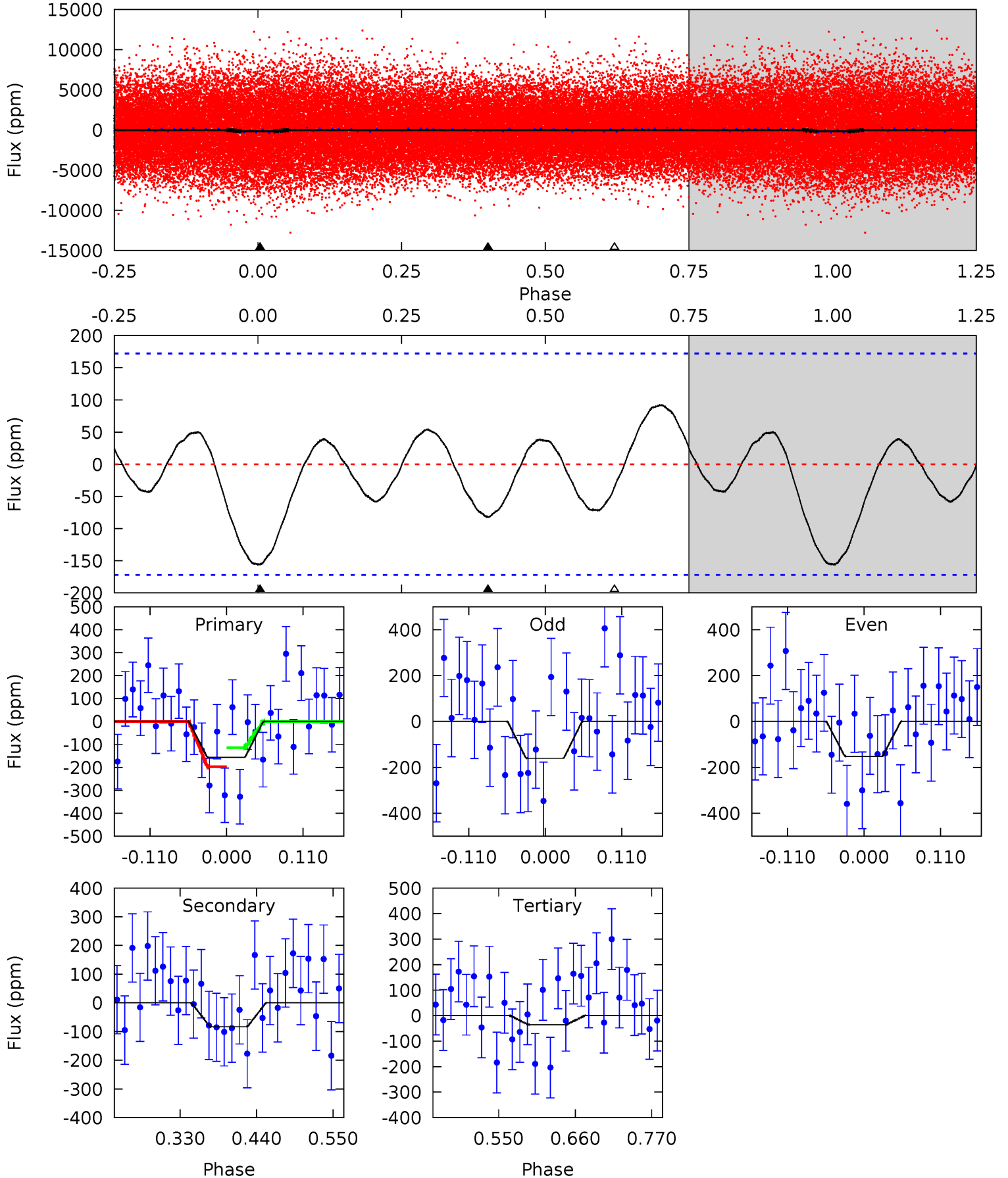
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.5	4.16	0	0	4.46	1.40	4.61	11.5	11.5	4.16	4.16	3.48	1.09	0.49	1.21



Alt Model-Shift Uniqueness Test

006290382-03, P = 0.777680 Days, E = 131.225939 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.13	2.19	0.95	0	4.54	1.60	1.20	3.18	4.13	1.24	2.19	0.11	0.76	0.37	1.08



Stellar Parameters For KIC 006290382

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7245^{+228}_{-330}	$4.158^{+0.132}_{-0.198}$	$-0.140^{+0.250}_{-0.350}$	$1.667^{+0.555}_{-0.341}$	$1.460^{+0.219}_{-0.241}$	$0.444^{+0.336}_{-0.235}$
	+3%/-5%	+3%/-5%	+179%/-250%	+33%/-20%	+15%/-17%	+76%/-53%
Source	KIC0	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 006290382-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-38 ± 9	$1.97^{+0.54}_{-0.48}$	4244^{+347}_{-324}	5227^{+879}_{-657}	$1.855^{+1.488}_{-0.797}$
Alt.	-83 ± 38	$2.43^{+0.61}_{-0.52}$	4240^{+350}_{-285}	5730^{+936}_{-881}	$2.600^{+2.034}_{-1.317}$

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 $A_{\text{obs}} \gg 1.0$

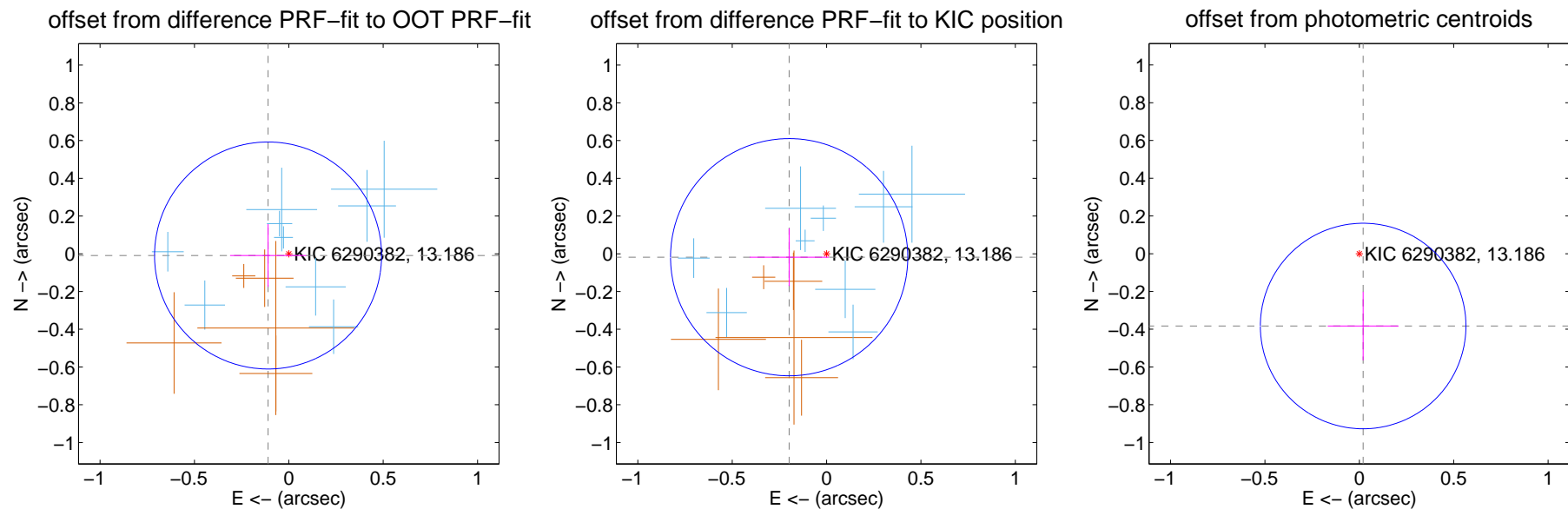
DV Centroid Data

Supplemental centroid analysis for 006290382-03. Kepler magnitude: 13.19. Transit SNR 8.27

There are 11 quarters with good PRF difference image offsets

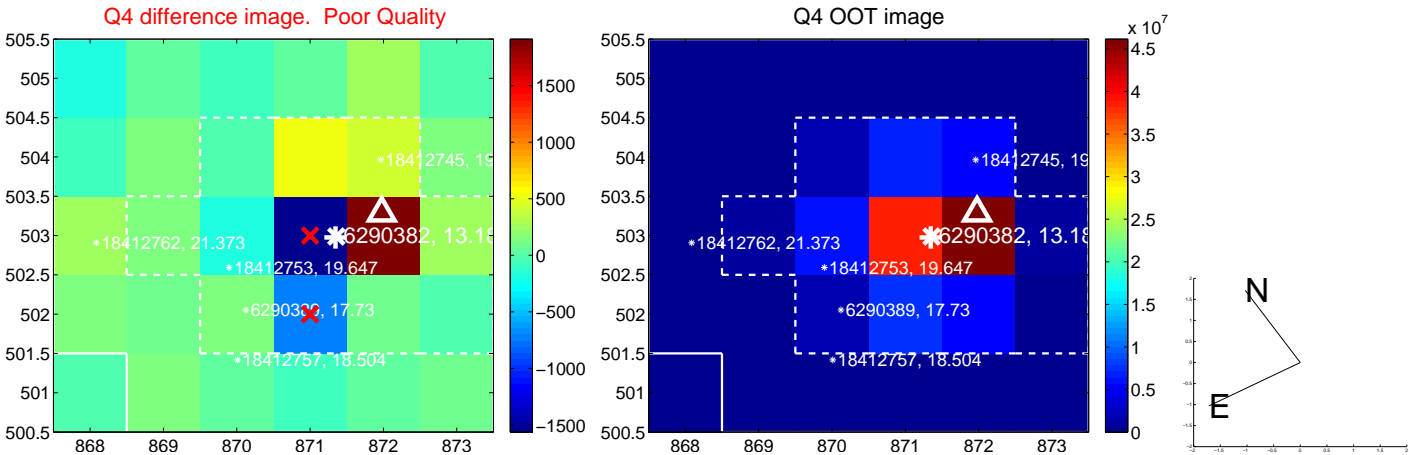
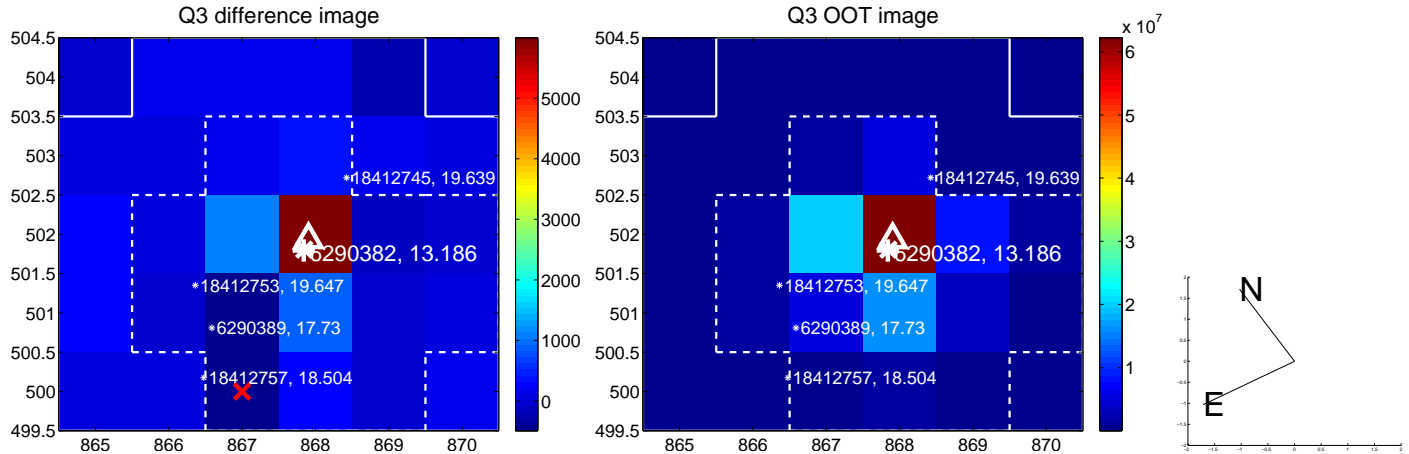
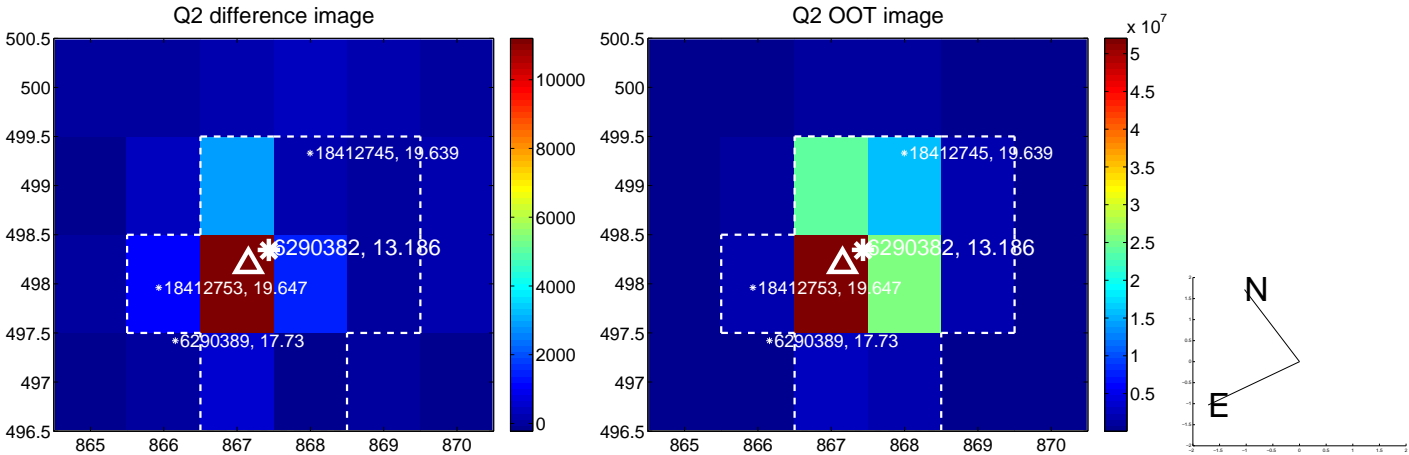
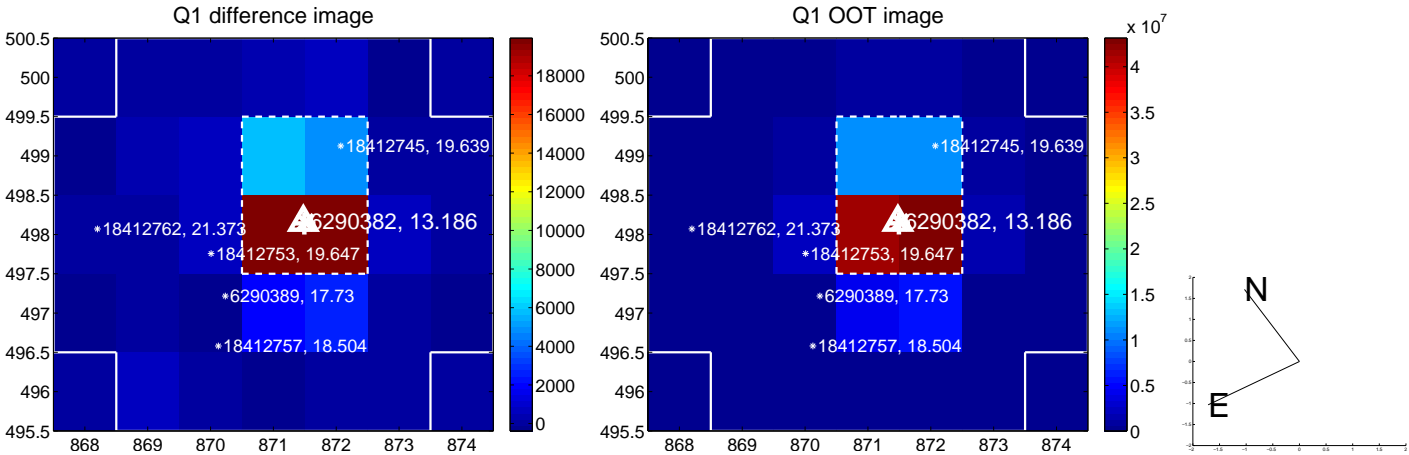
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.110 ± 0.200	0.55	0.110 ± 0.201	-0.009 ± 0.166
PRF-fit source offset from KIC position	0.199 ± 0.210	0.95	0.198 ± 0.209	-0.018 ± 0.152
photometric centroid source offset	0.38 ± 0.18	2.11	-0.02 ± 0.19	-0.38 ± 0.18

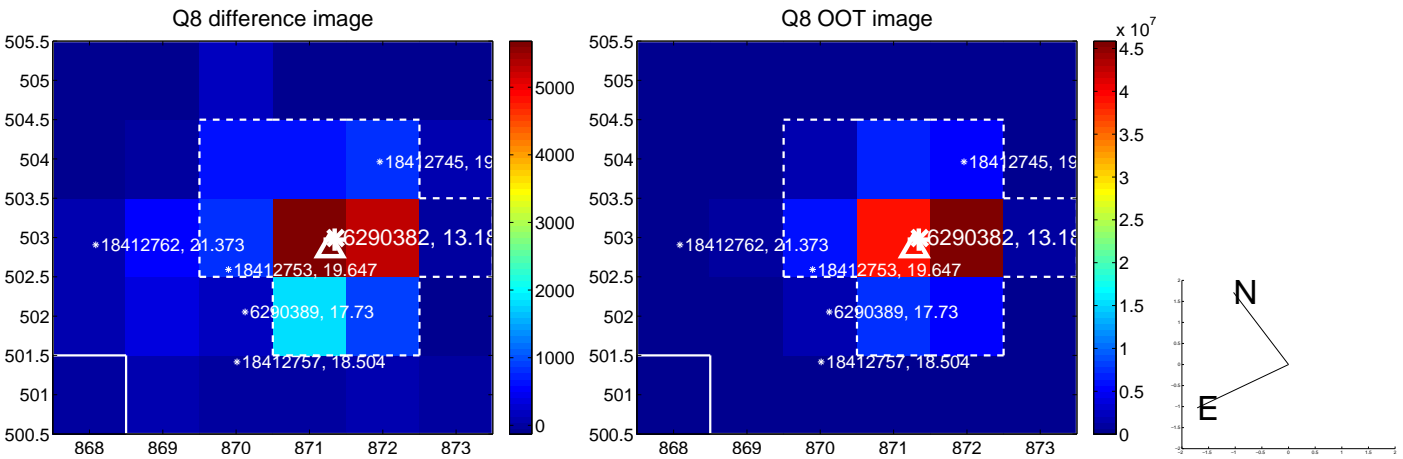
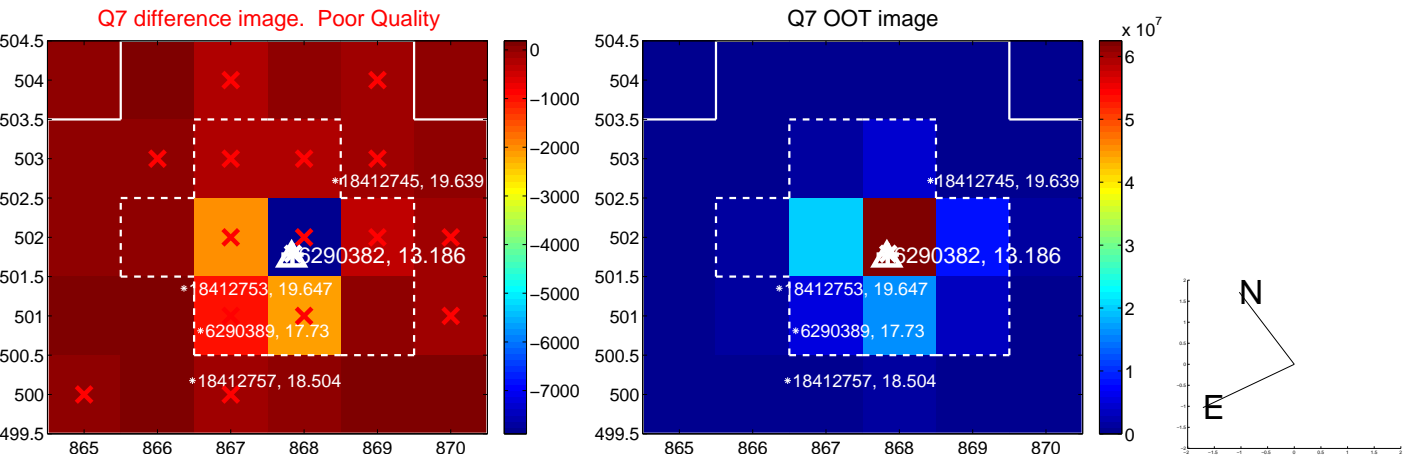
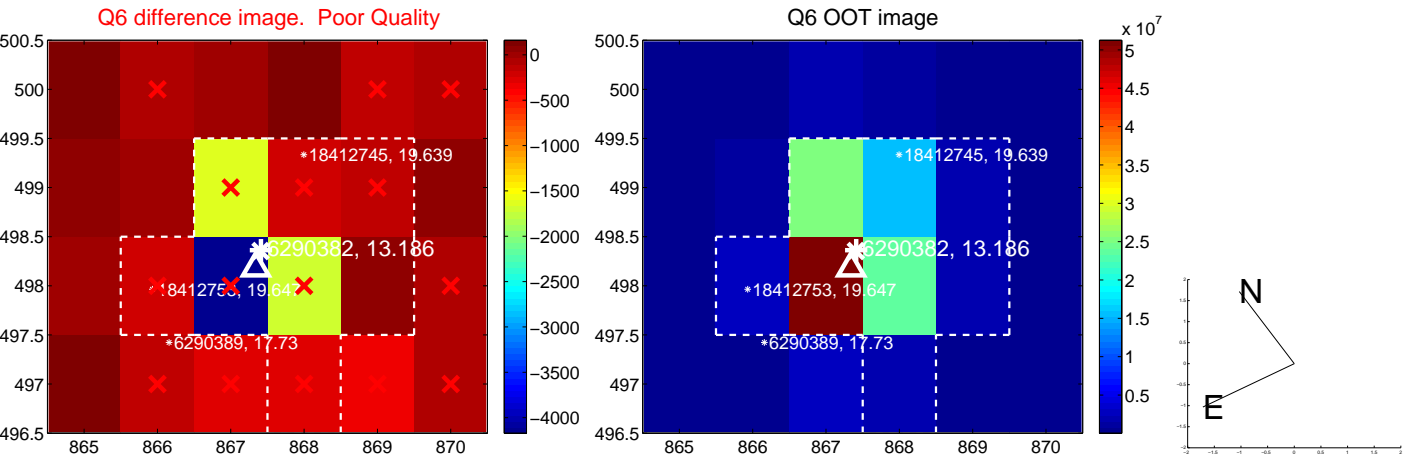
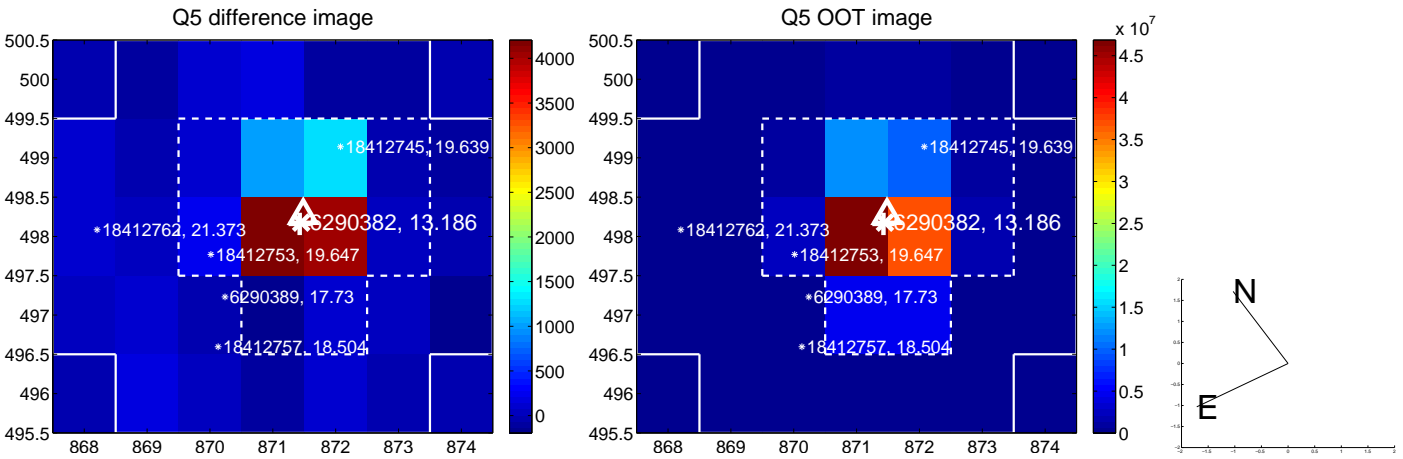


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

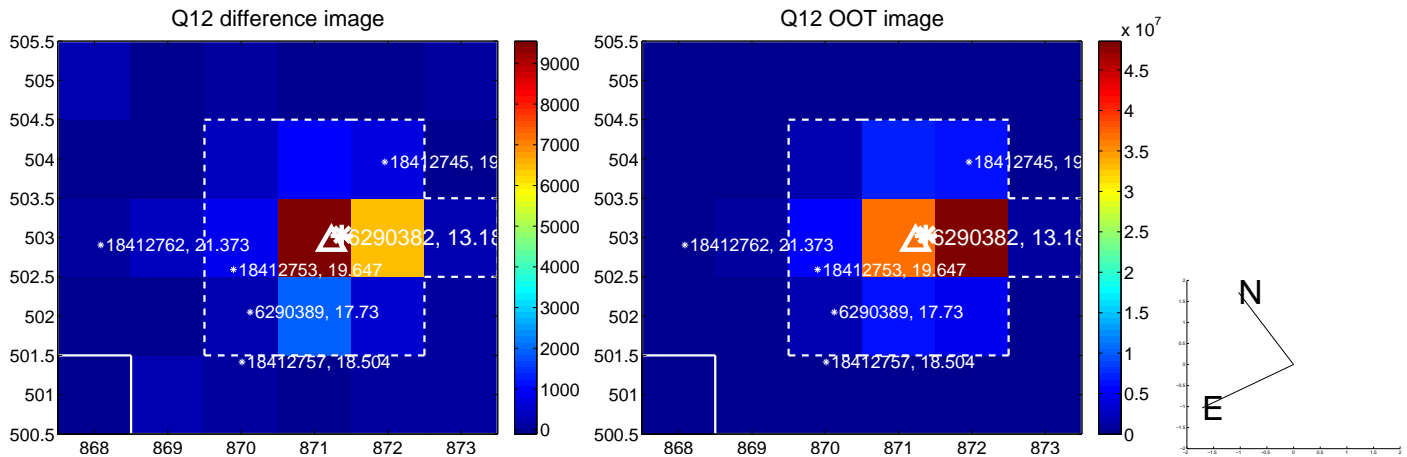
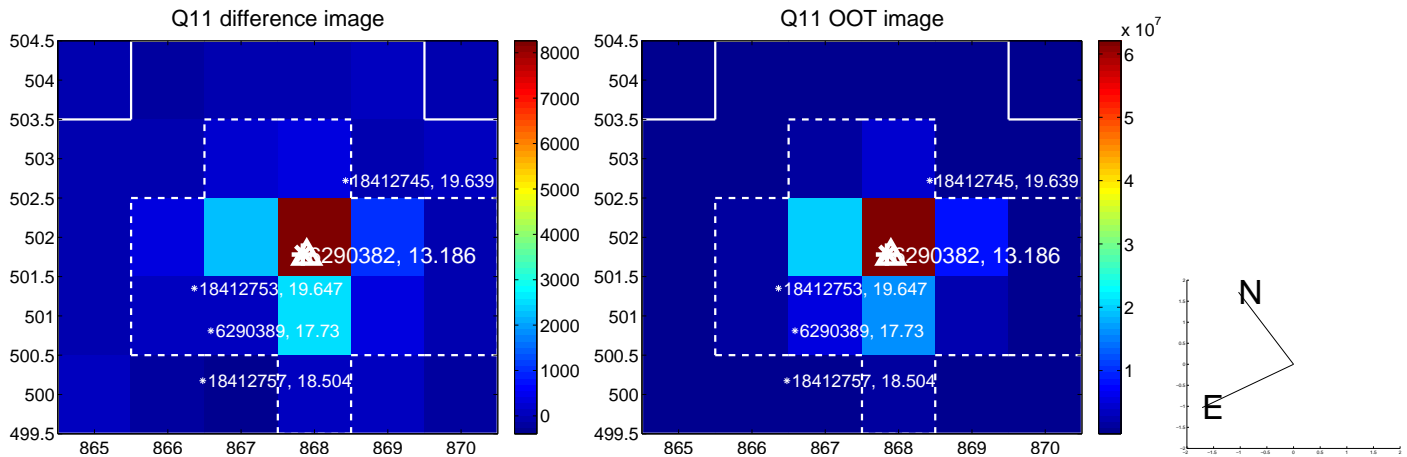
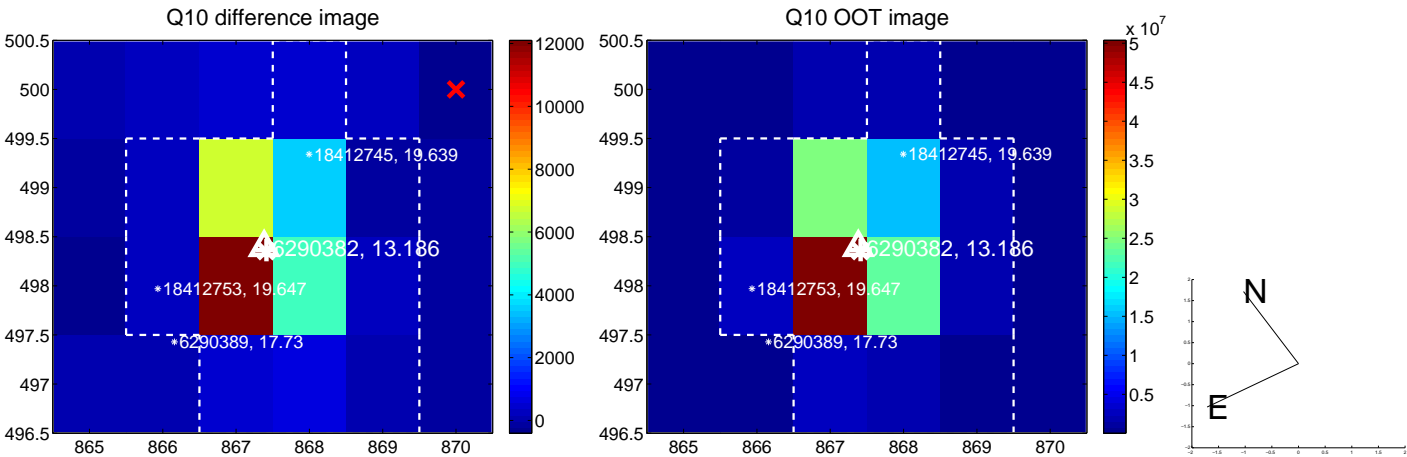
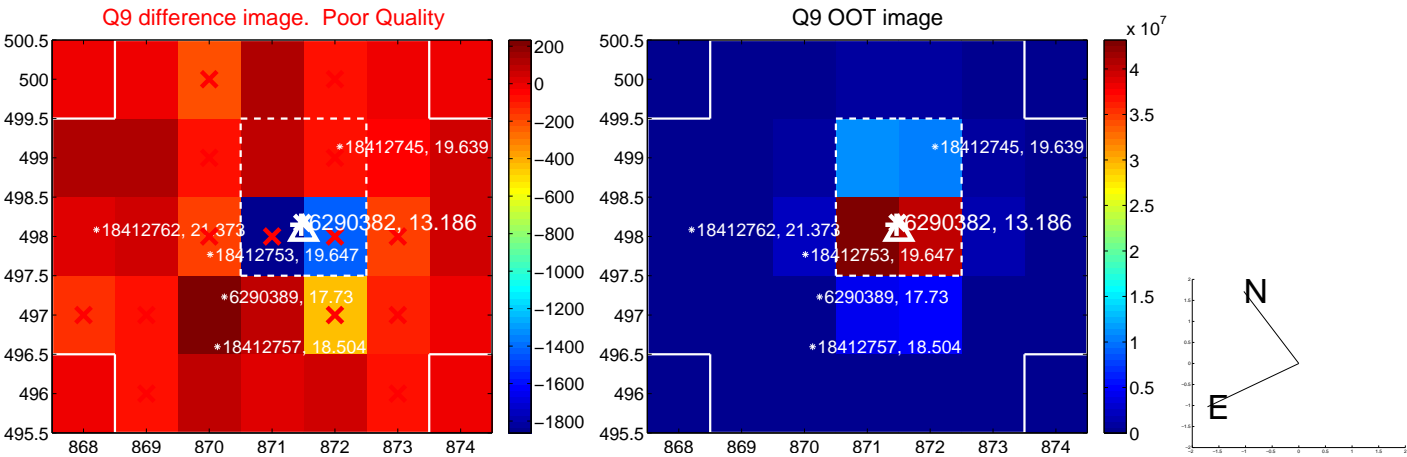
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



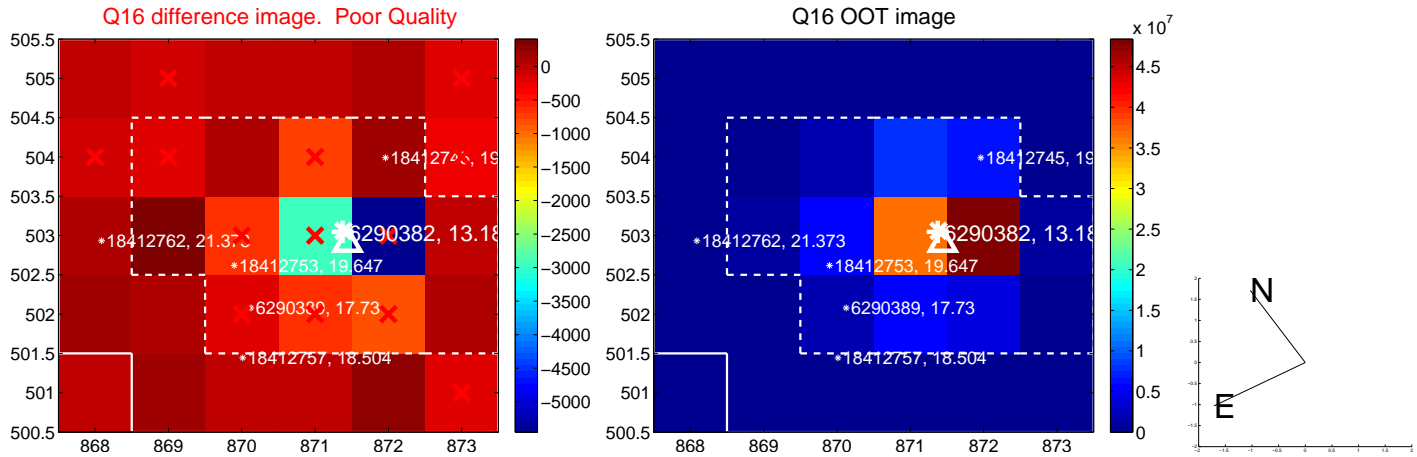
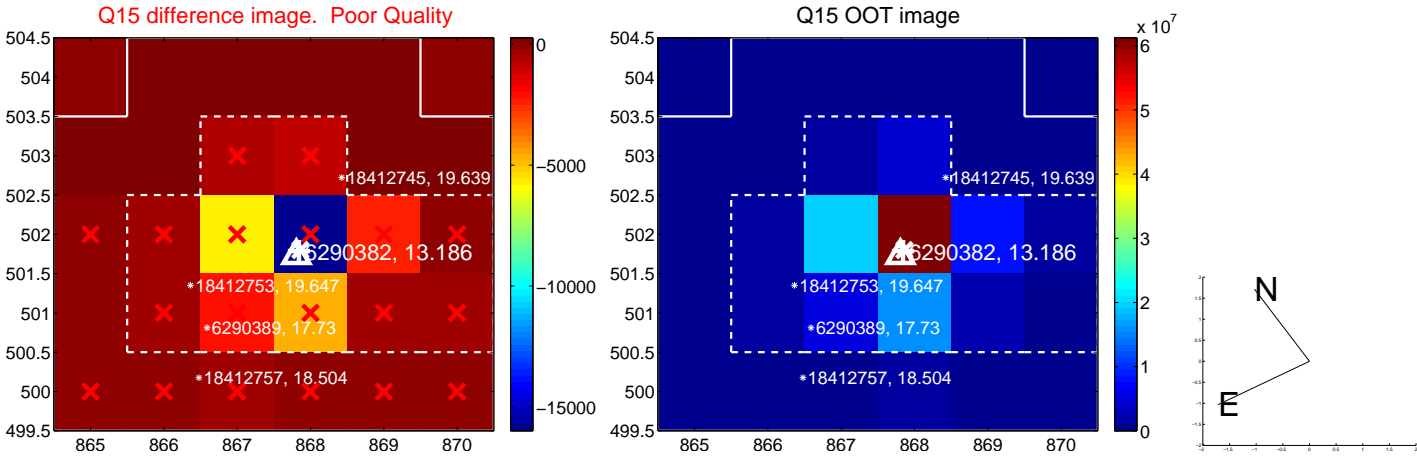
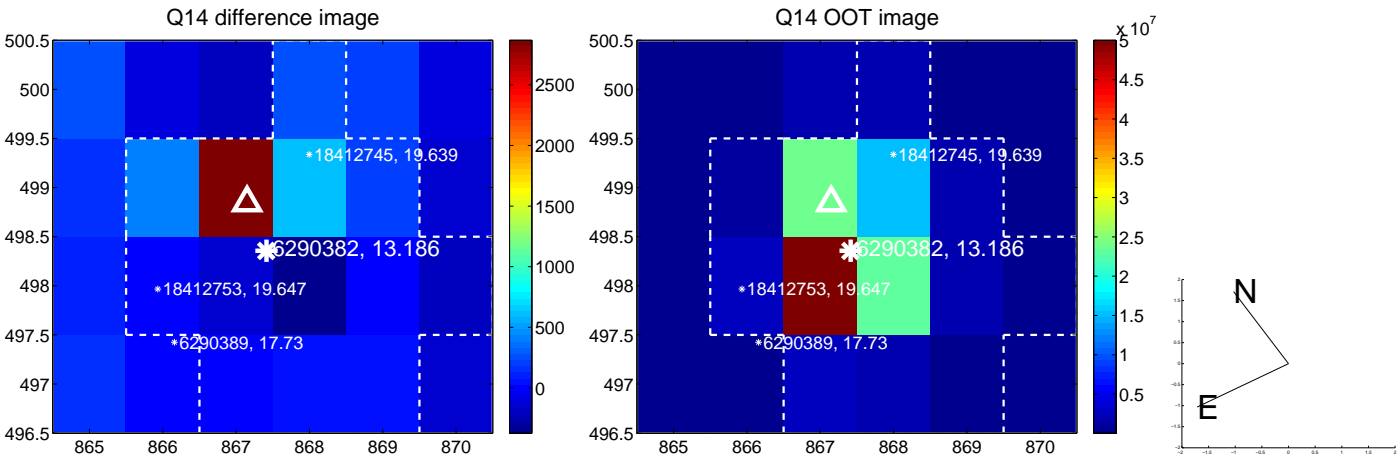
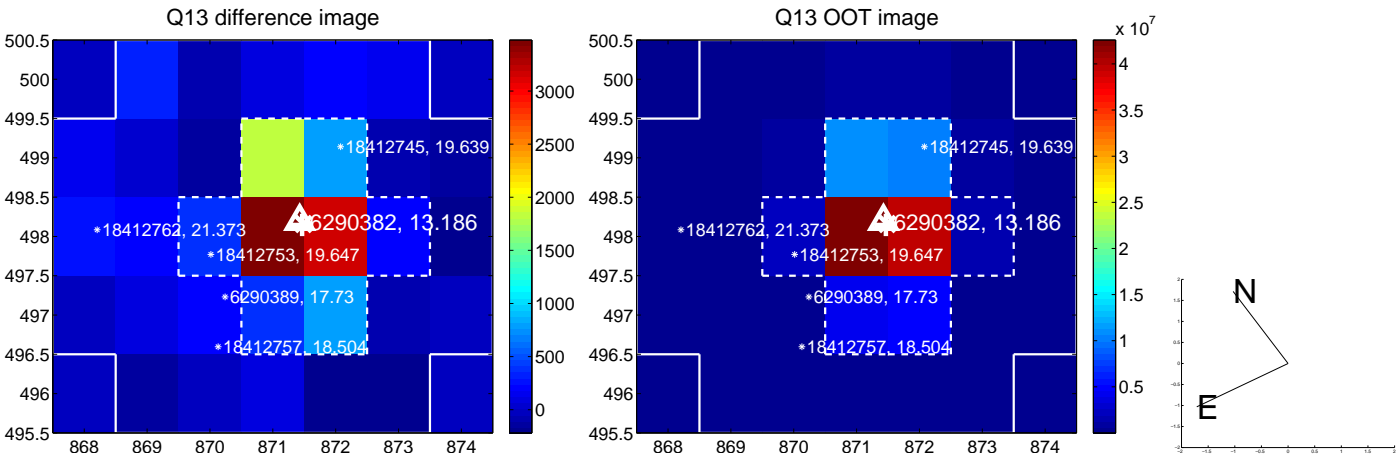
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



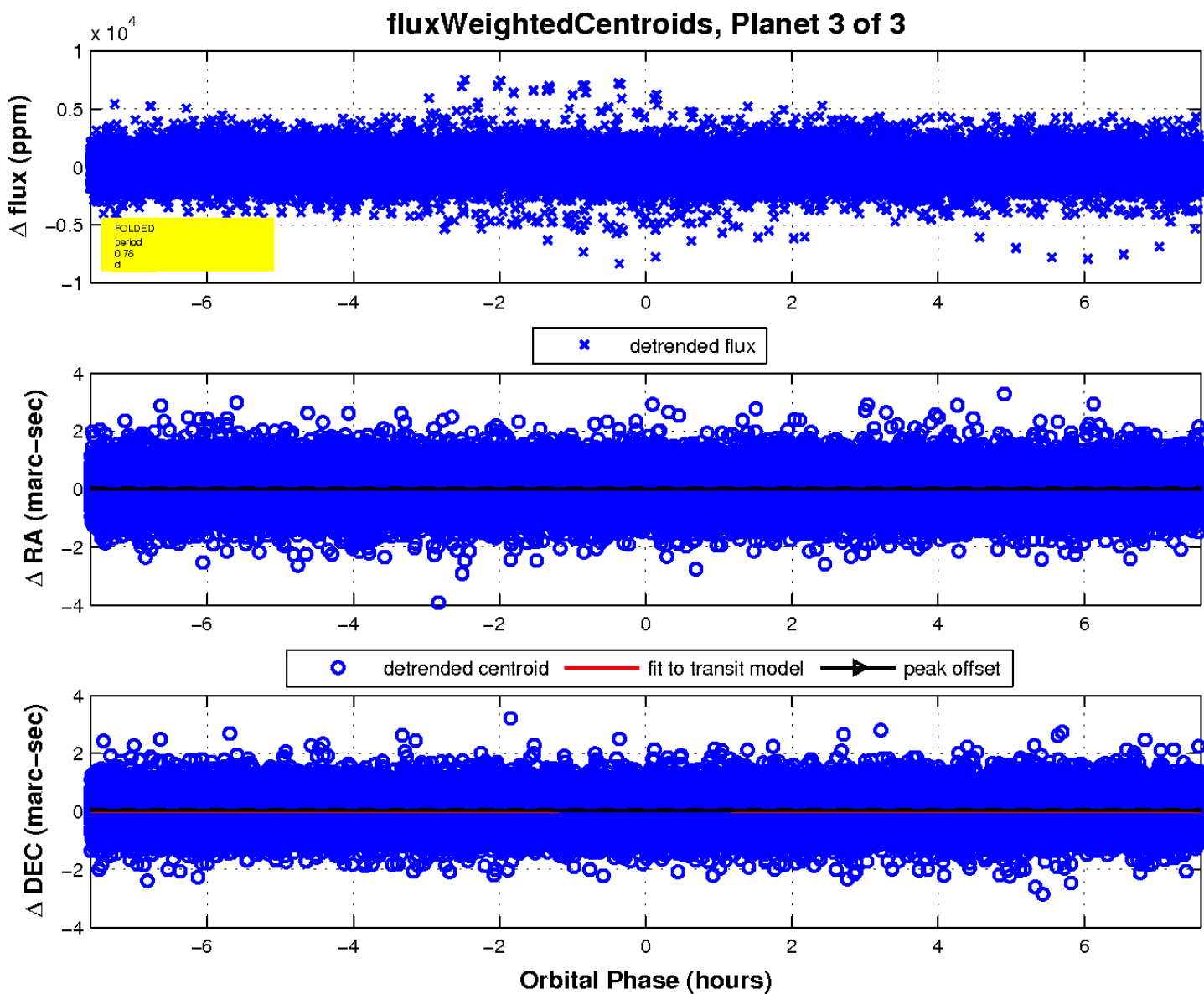
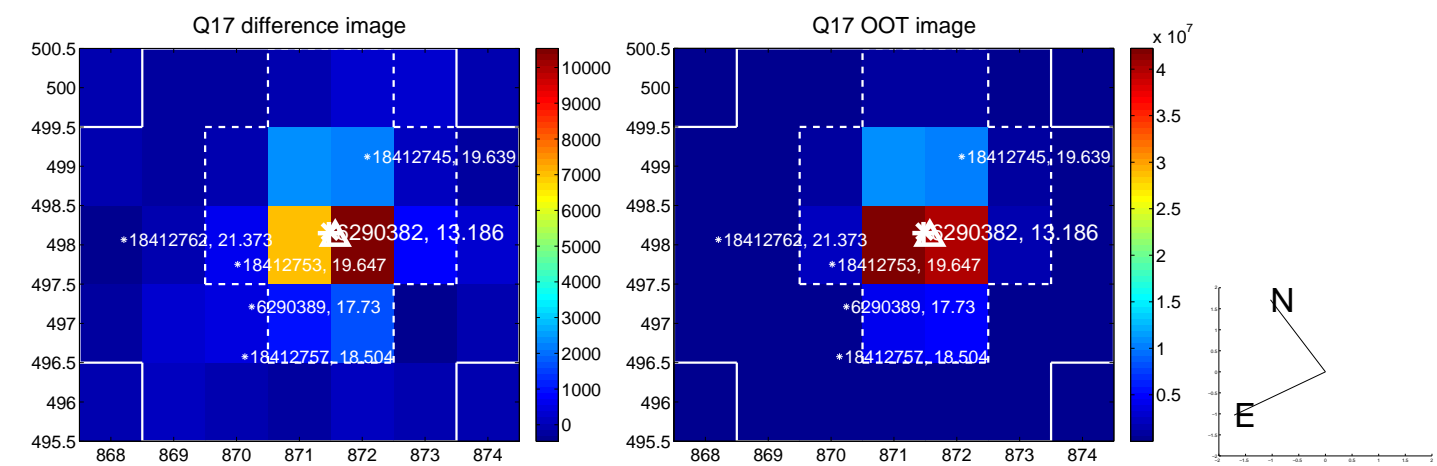
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

