

KIC 011122894

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})
011122894-01	OBS	1426.02	74.931013	199.891284	4047.3	4.139	135.4	122.8	0.90	5618	5.67	6.63
011122894-02	OBS	1426.03	150.021338	224.679598	4159.4	3.853	92.4	81.2	0.90	5618	7.12	2.63
011122894-03	OBS	1426.01	38.868830	132.436372	970.5	7.781	55.3	57.5	0.90	5618	3.56	15.91

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011122894-01	OBS	PC	0.91	0	0	0	0	NO_COMMENT
011122894-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011122894-03	OBS	PC	1.00	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.

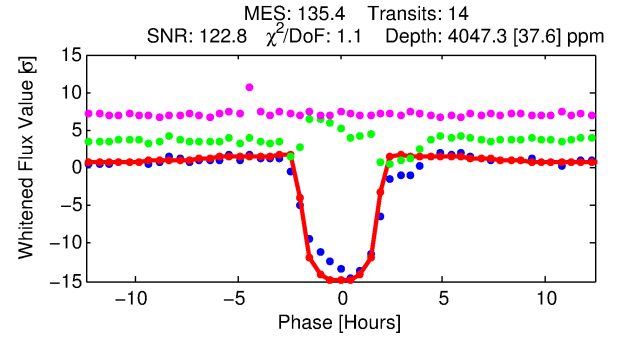
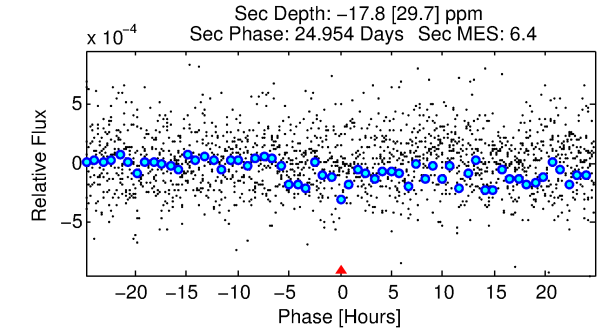
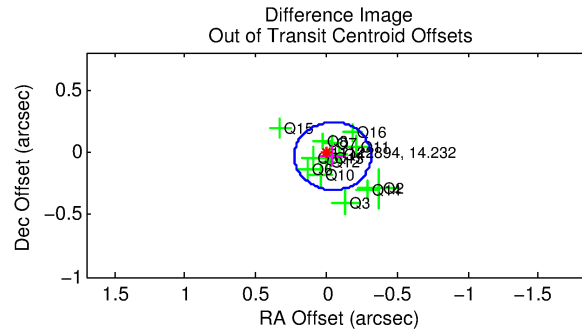
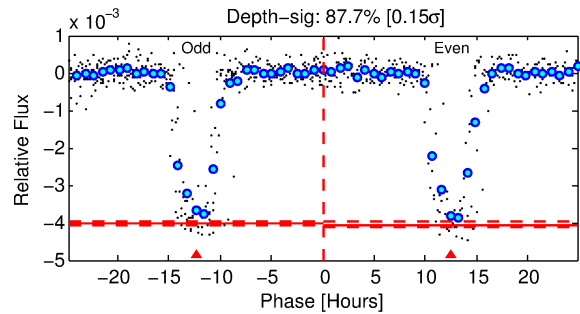
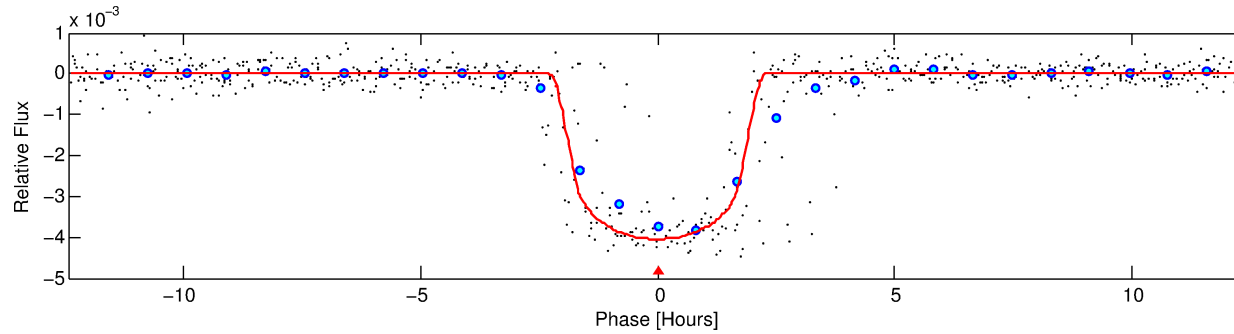
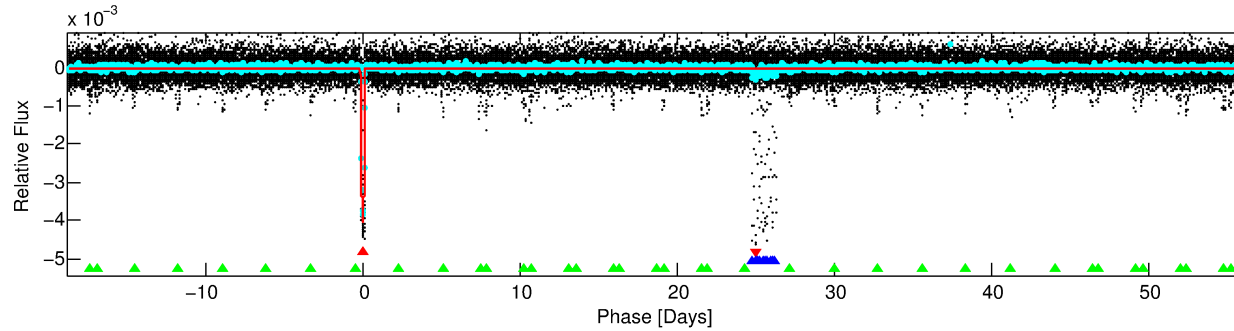
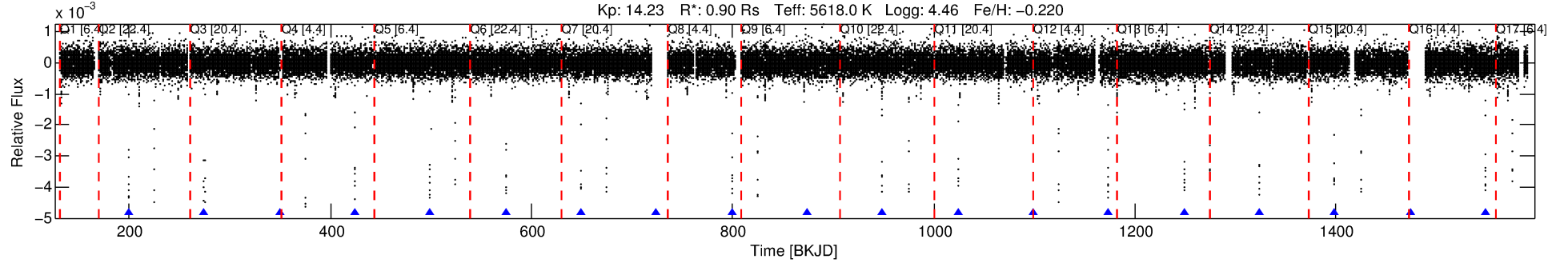
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011122894-01

No Significant Match Found

DV One-Page Summary

KIC: 11122894 Candidate: 1 of 3 Period: 74.931 d
KOI: K01426.02 Name: Kepler-297c Corr: 0.903



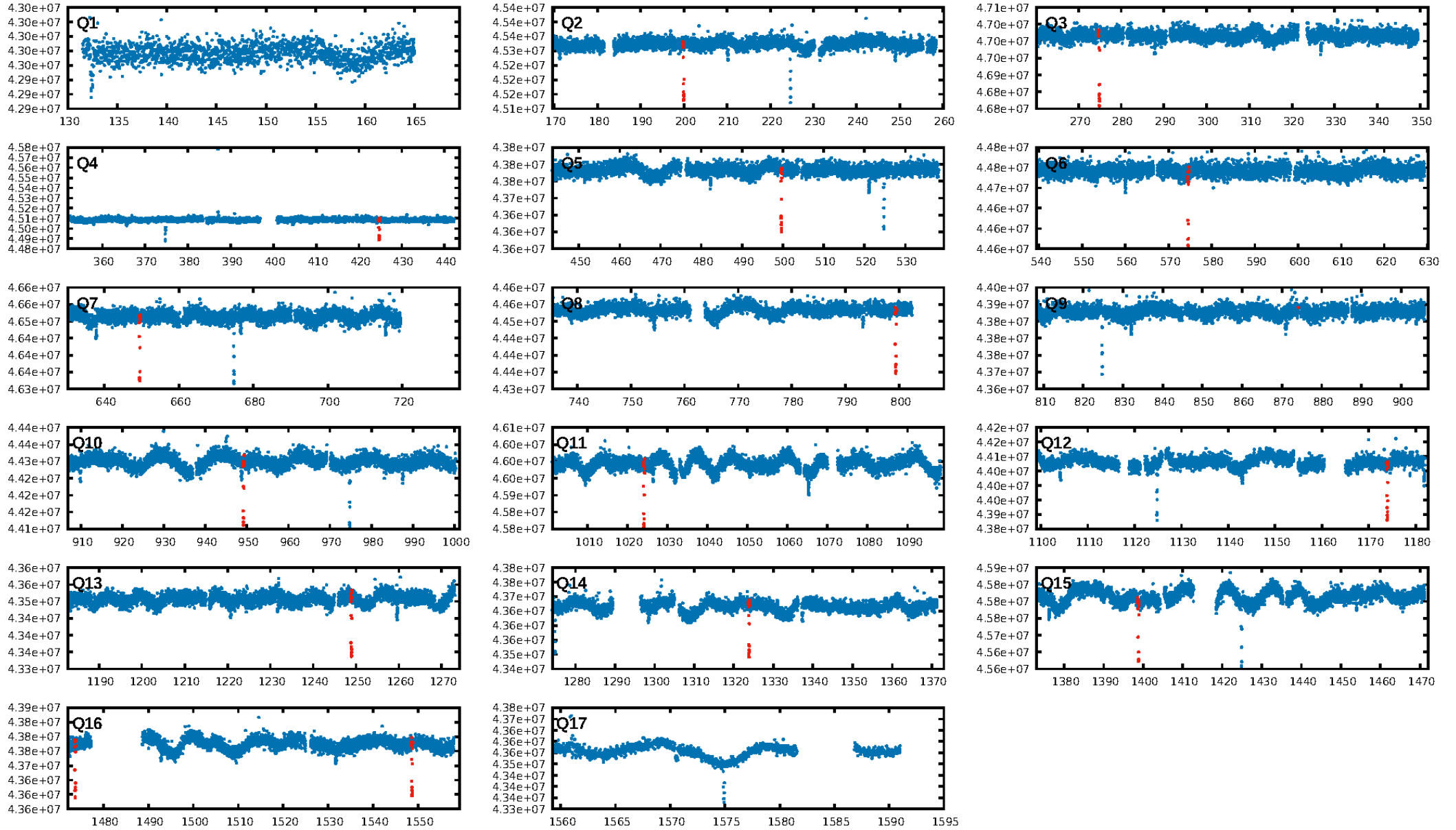
DV Fit Results:

Period = 74.93101 [0.00007] d
Epoch = 199.8913 [0.0007] BKJD
Rp/R* = 0.0579 [0.0049]
a/R* = 143.64 [51.26]
b = 0.20 [1.72]
Seff = 6.63 [1.16]
Teq = 409 [18] K
Rp = 5.67 [0.79] Re
a = 0.3291 [0.0332] AU
Ag = N/A
Teffp = N/A

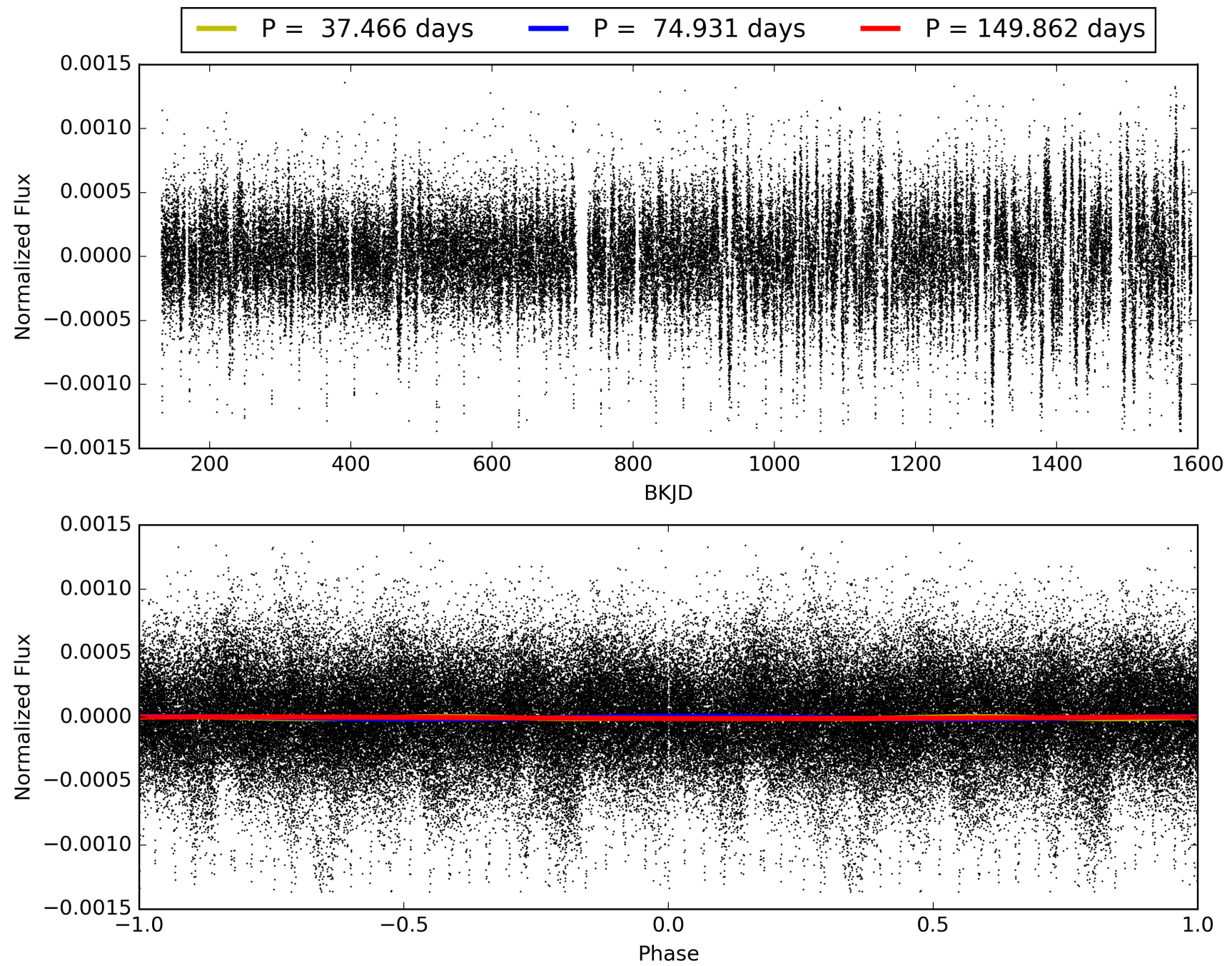
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [98.20 σ]
LongPeriod-sig: 100.0% [318.68 σ]
ModelChiSquare2-sig: 93.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [14/14]
GhostDiagnostic-chr: 6.695
Centroid-sig: 3.8%
Centroid-so: 0.250 arcsec [2.49 σ]
OotOffset-rm: 0.054 arcsec [0.60 σ]
KicOffset-rm: 0.059 arcsec [0.72 σ]
OotOffset-st: 4/4/4/2 [14]
KicOffset-st: 4/4/4/2 [14]
DiffImageQuality-fgm: 1.00 [14/14]
DiffImageOverlap-fno: 0.93 [13/14]

TCE 011122894-01, PDC Light Curves

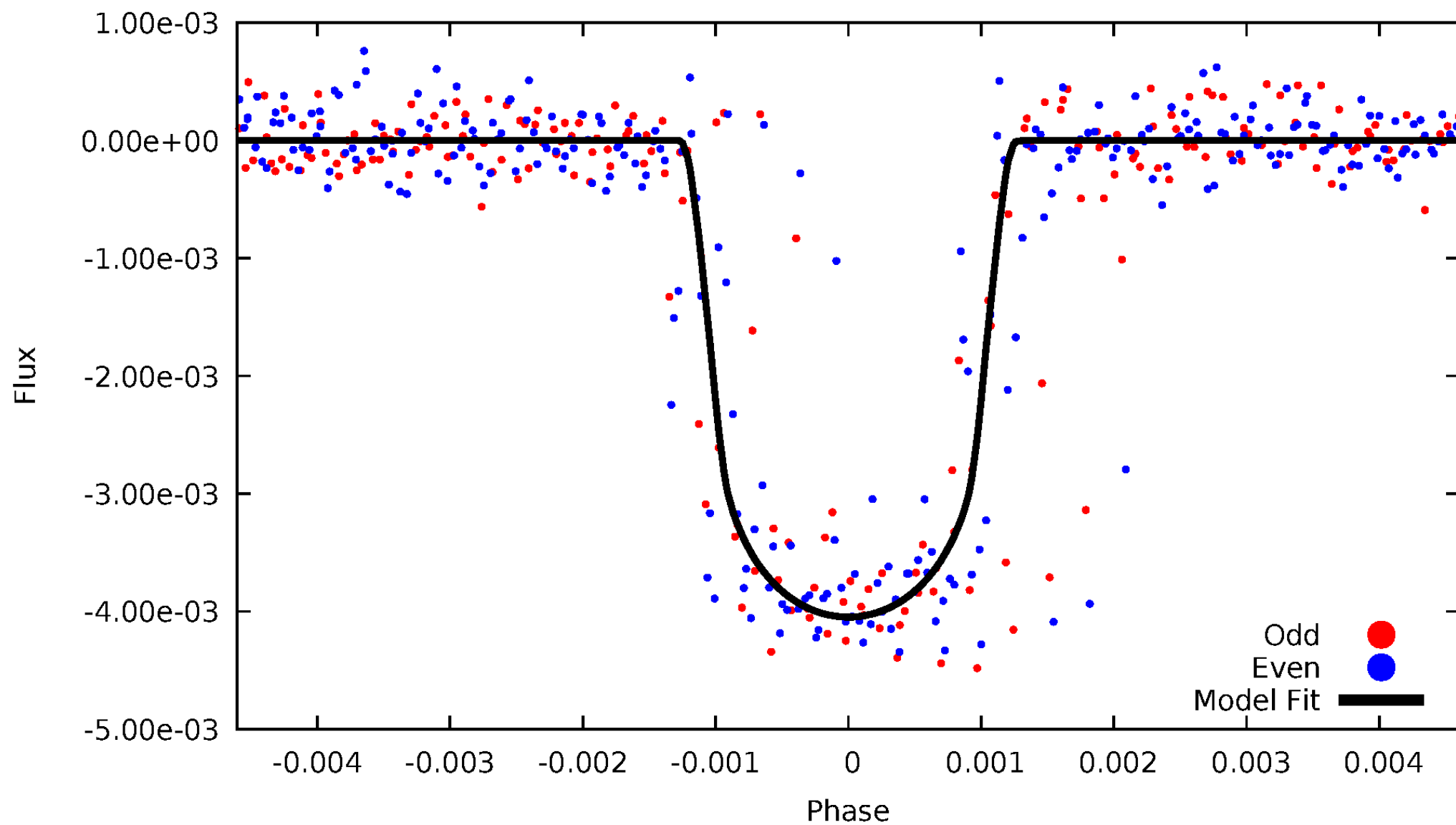


TCE 011122894-01



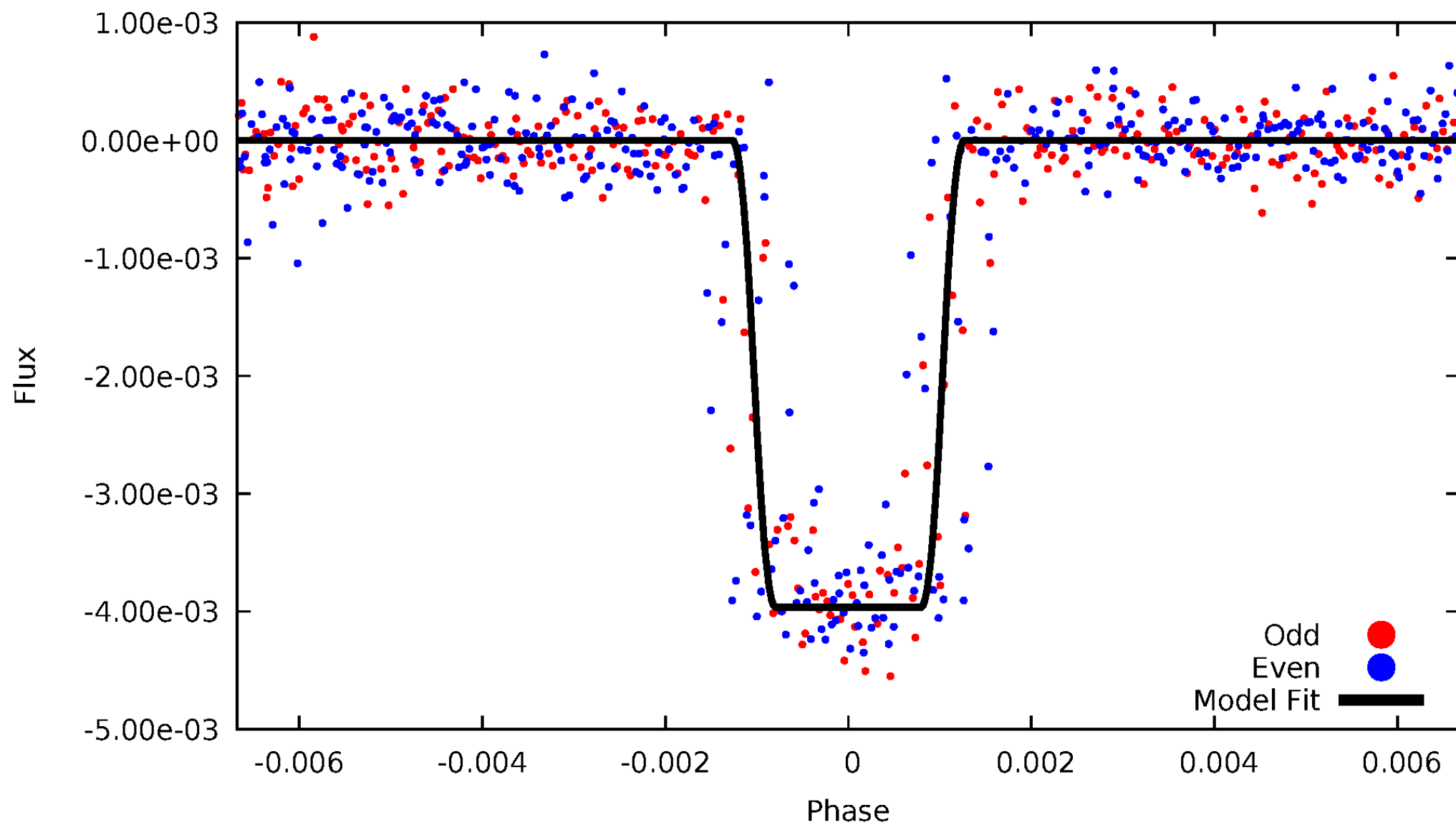
DV Odd/Even

TCE 011122894-01



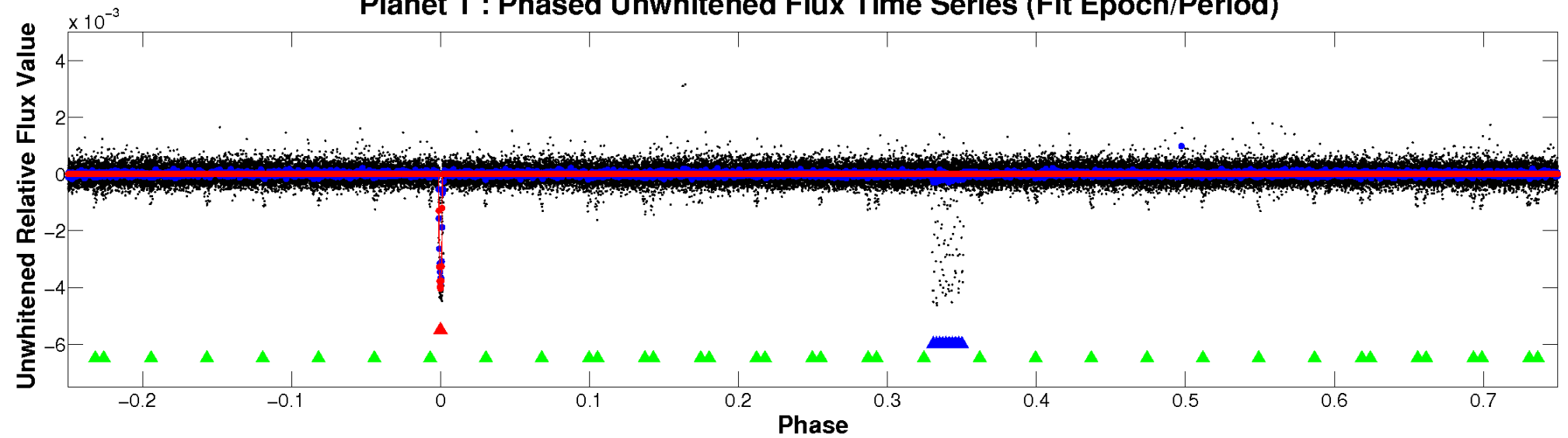
ALT Odd/Even

TCE 011122894-01

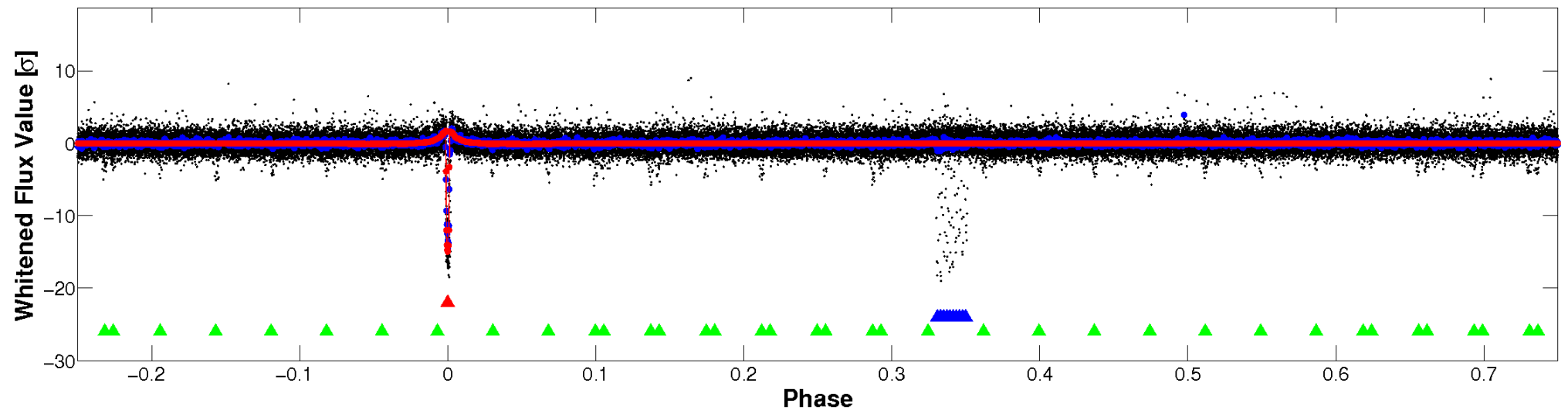


Non-Whitened Vs. Whitened Light Curve

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

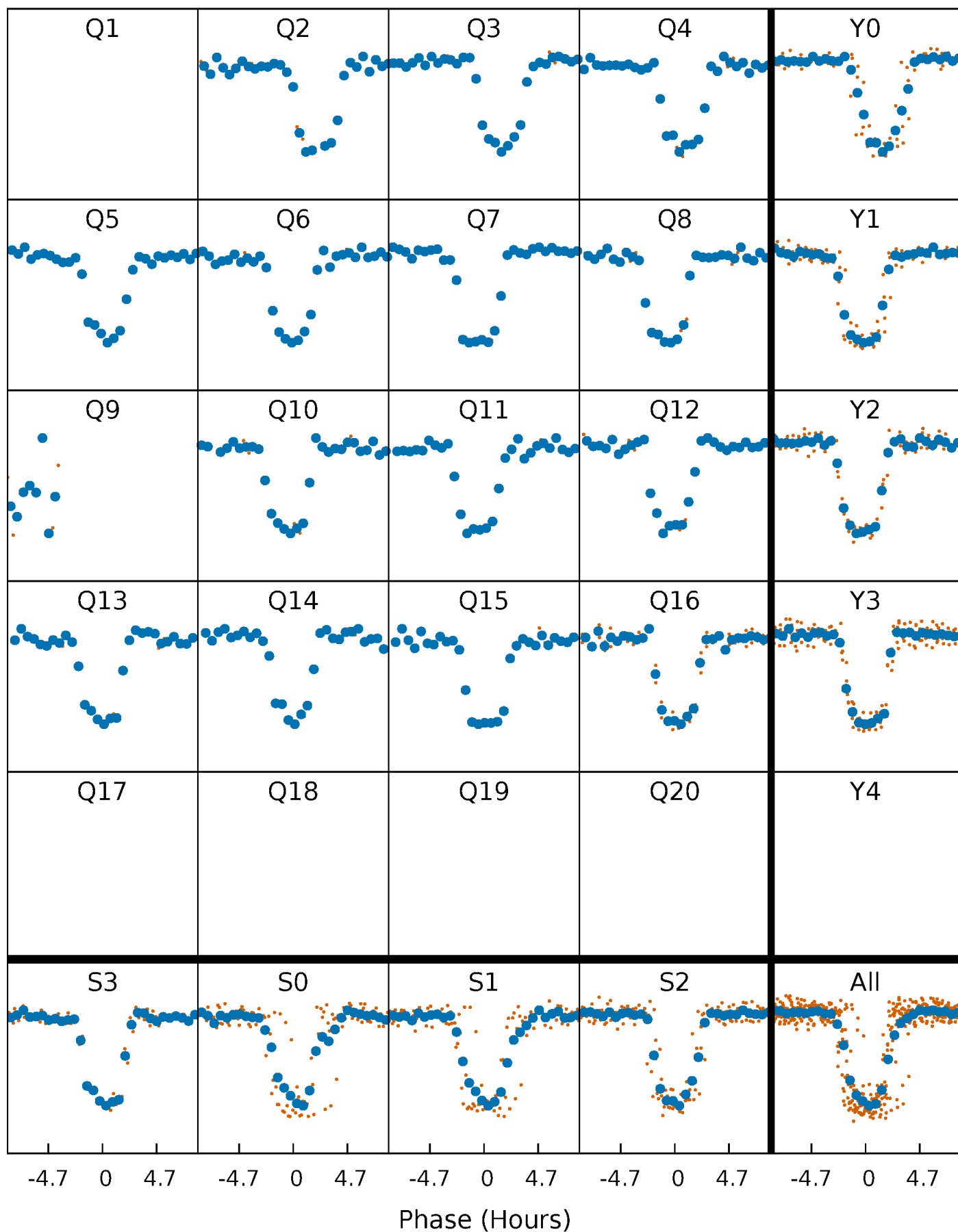


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



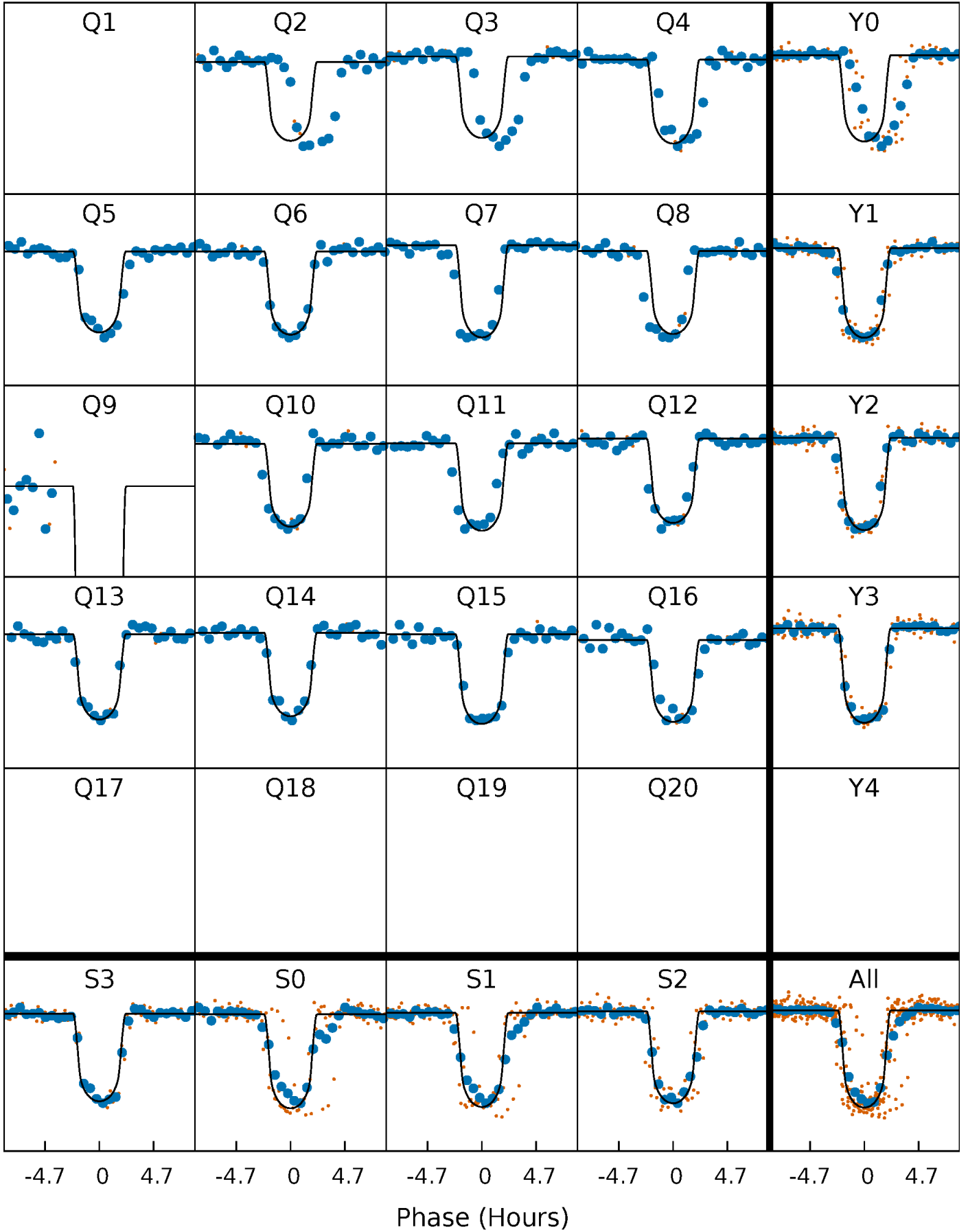
PDC Quarter-Phased Transit Curves

TCE 011122894-01 P= 74.931013 Days $T_0=199.891284$ (BKJD)



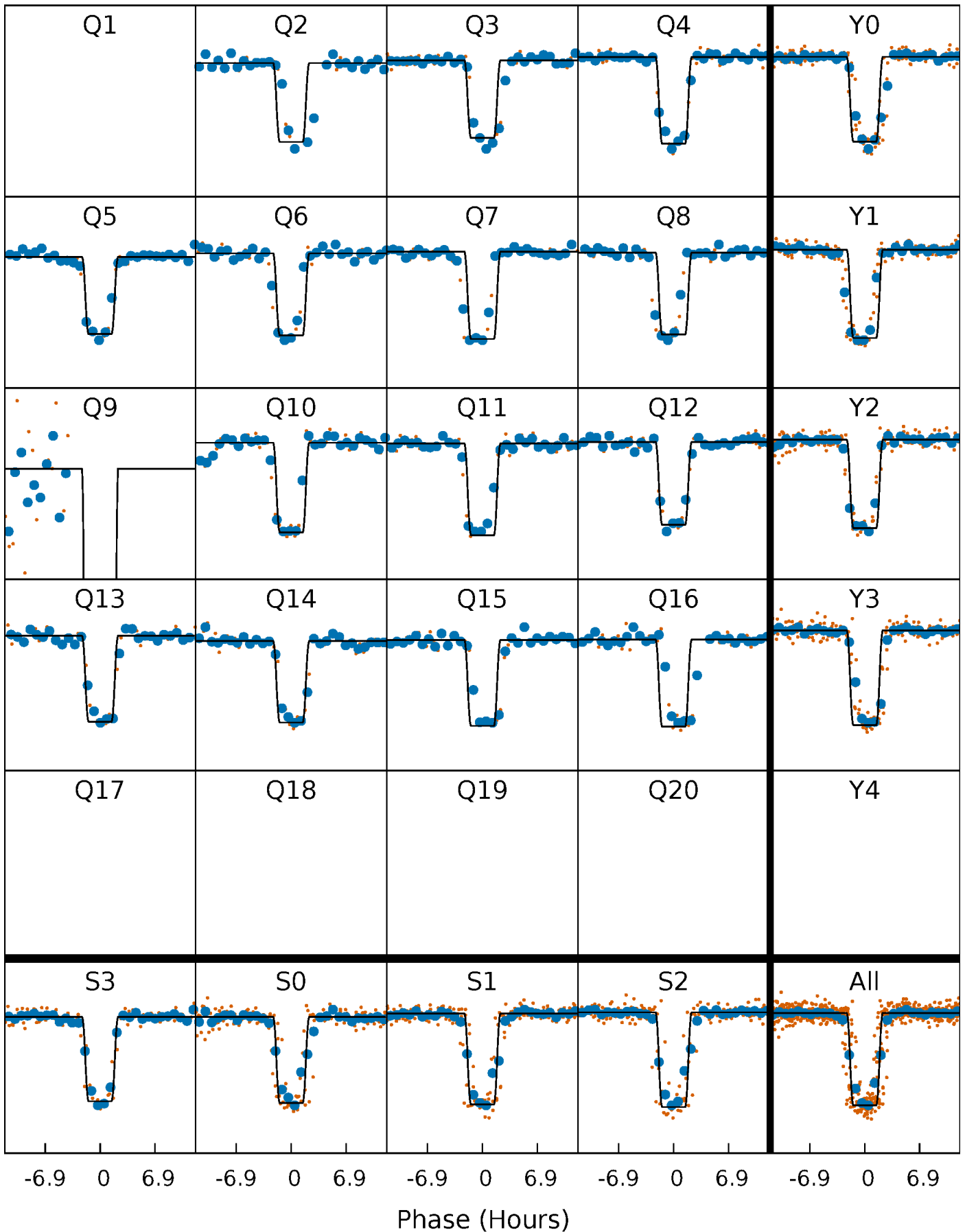
DV Quarter-Phased Transit Curves

TCE 011122894-01 P= 74.931013 Days $T_0=199.891284$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

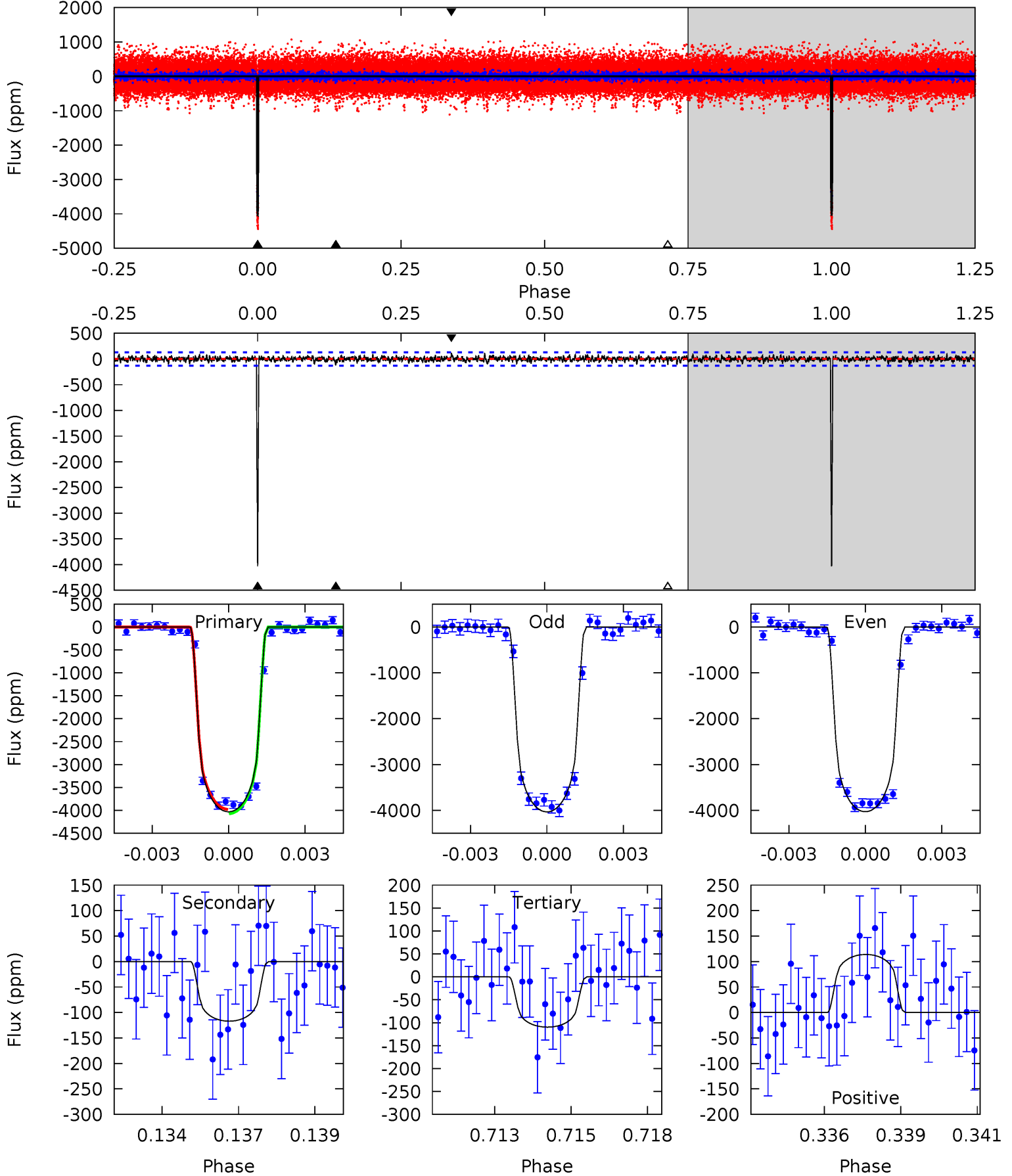
TCE 011122894-01 P= 74.927327 Days $T_0=199.933242$ (BKJD)



DV Model-Shift Uniqueness Test

011122894-01, P = 74.931013 Days, E = 124.960271 Days

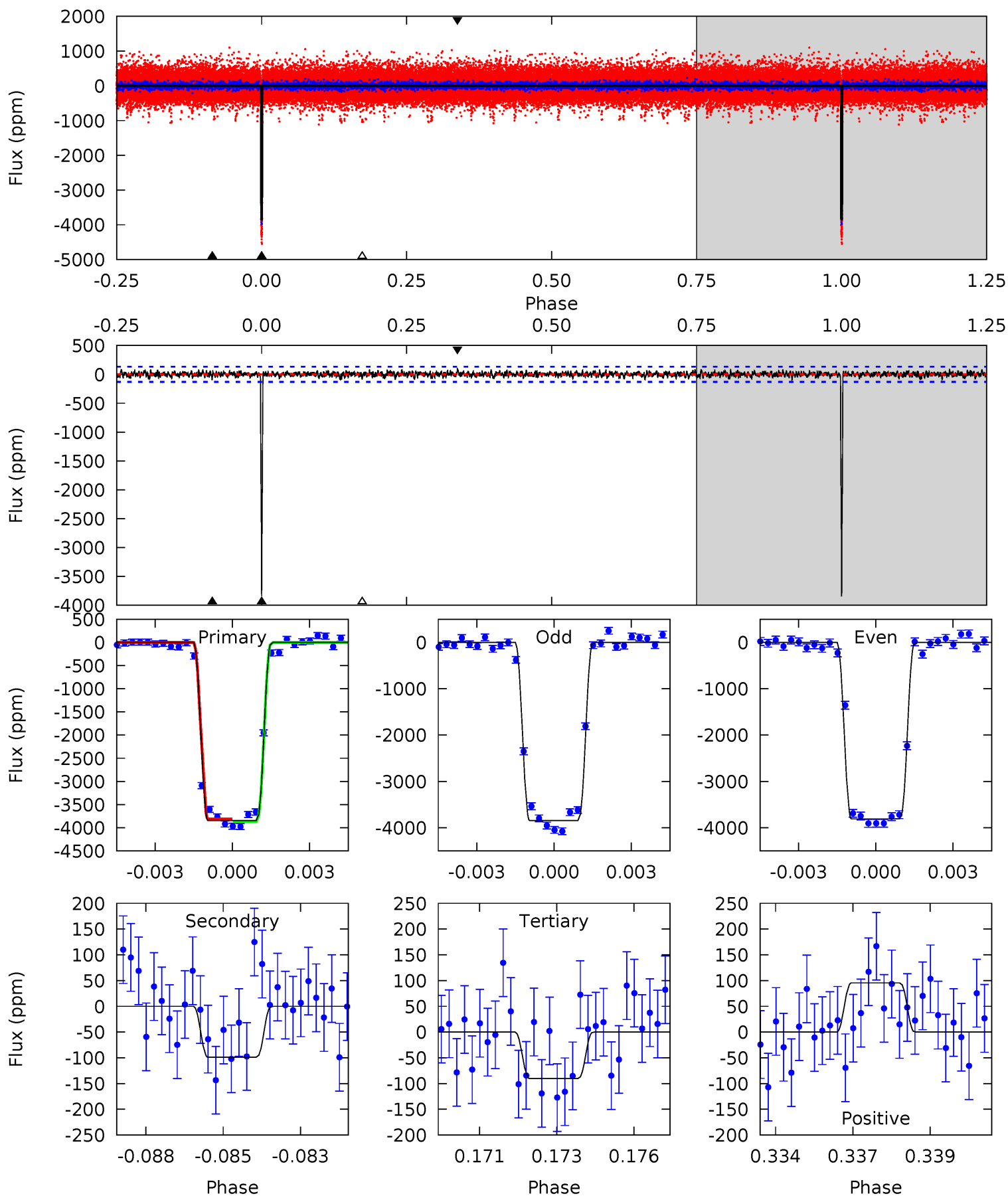
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
164.4	4.77	4.47	4.64	5.28	3.02	1.19	159.9	159.7	0.30	0.13	0.08	0.94	0.03	1.93



Alt Model-Shift Uniqueness Test

011122894-01, $P = 74.927327$ Days, $E = 125.005915$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
154.8	3.98	3.63	3.84	5.29	3.02	1.12	151.2	151.0	0.35	0.14	0.76	0.99	0.02	1.15



Stellar Parameters For KIC 011122894

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5618^{+112}_{-112}	$4.460^{+0.081}_{-0.090}$	$-0.220^{+0.150}_{-0.150}$	$0.897^{+0.099}_{-0.081}$	$0.846^{+0.059}_{-0.049}$	$1.652^{+0.574}_{-0.426}$
	+2%/-2%	+2%/-2%	+68%/-68%	+11%/-9%	+7%/-6%	+35%/-26%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 011122894-01 / KOI 1426.02

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-117 ± 25	$5.73^{+0.57}_{-0.61}$	573^{+21}_{-17}	3063^{+136}_{-116}	214^{+73}_{-57}
Alt.	-99 ± 25	$6.16^{+0.71}_{-0.57}$	572^{+24}_{-21}	2927^{+116}_{-131}	154^{+53}_{-43}

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

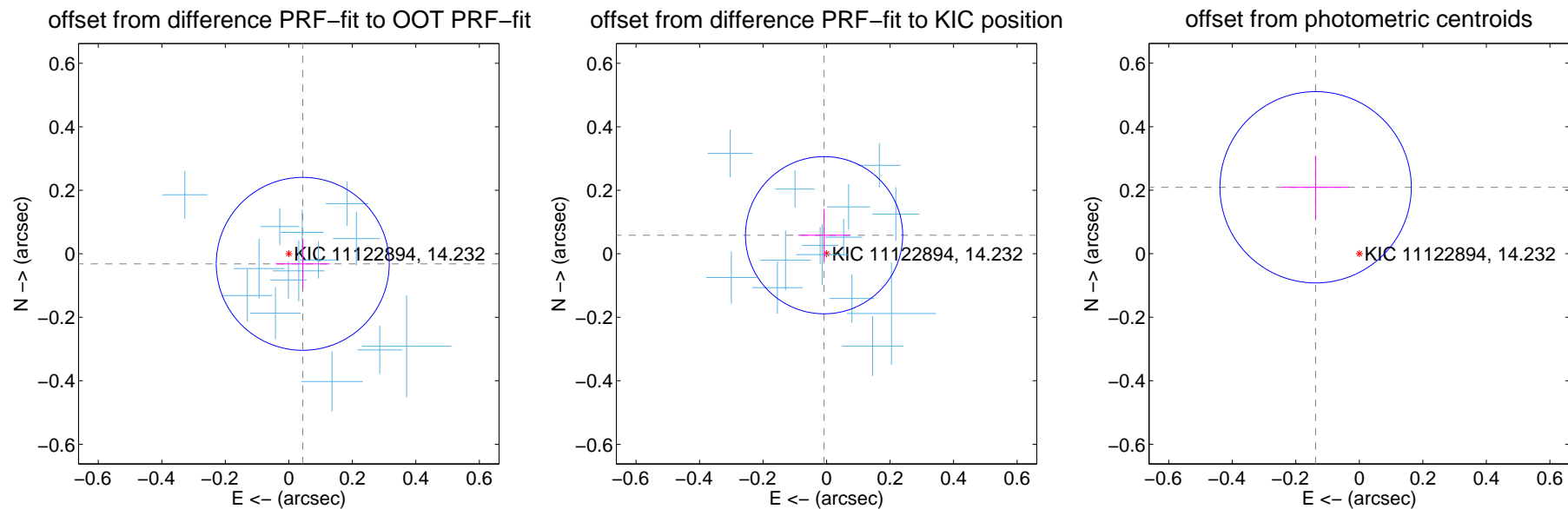
DV Centroid Data

Supplemental centroid analysis for 011122894-01. Kepler magnitude: 14.23. Transit SNR 122.78

There are 14 quarters with good PRF difference image offsets

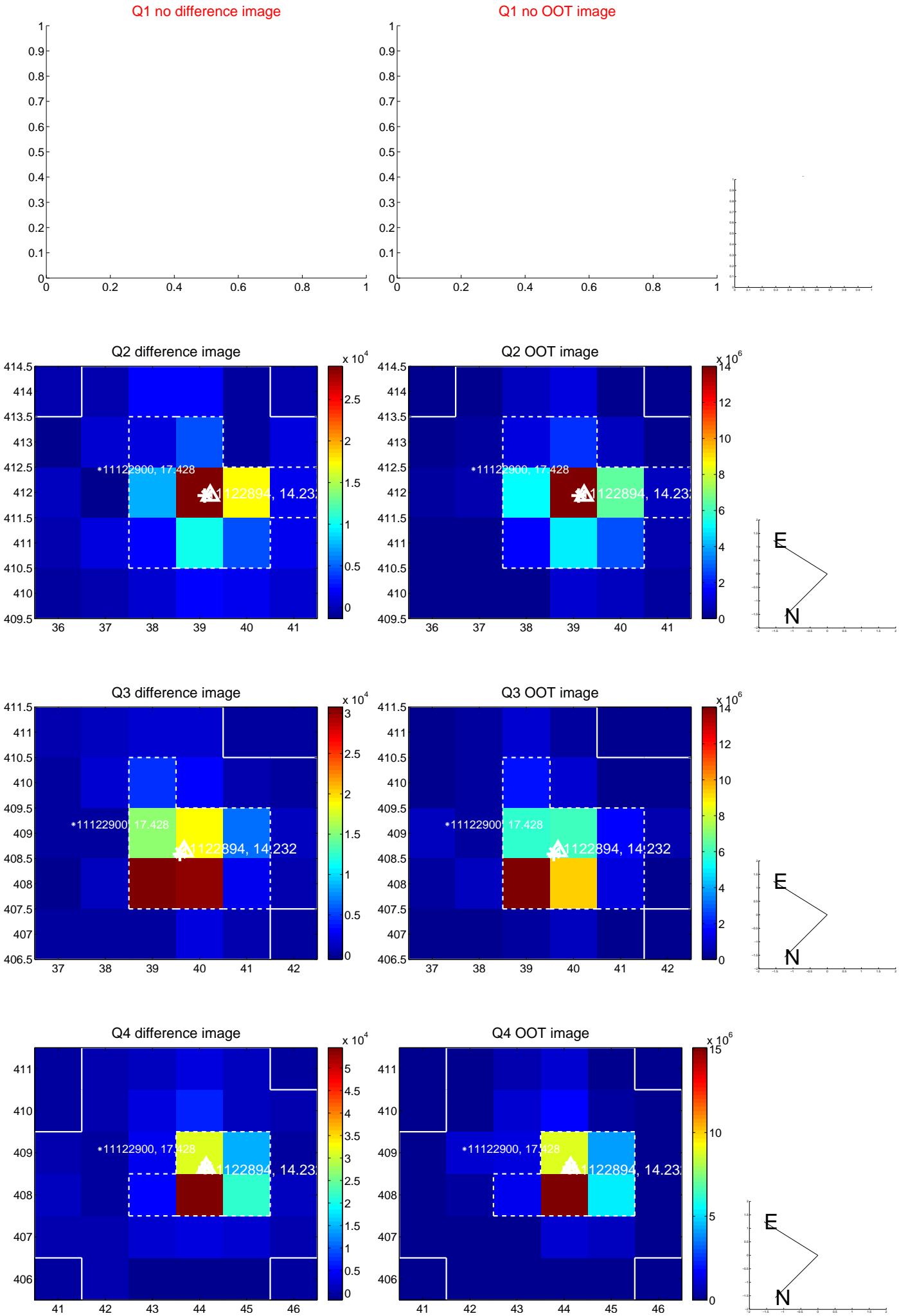
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.054 ± 0.091	0.60	-0.044 ± 0.085	-0.032 ± 0.080
PRF-fit source offset from KIC position	0.059 ± 0.083	0.72	0.008 ± 0.082	0.059 ± 0.083
photometric centroid source offset	0.25 ± 0.10	2.49	0.14 ± 0.10	0.21 ± 0.10

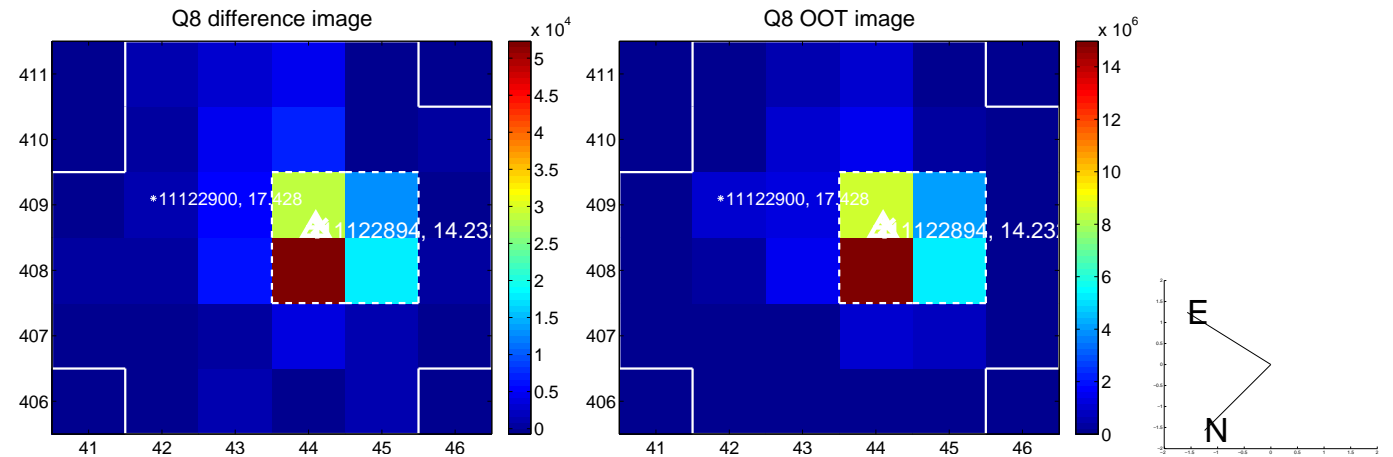
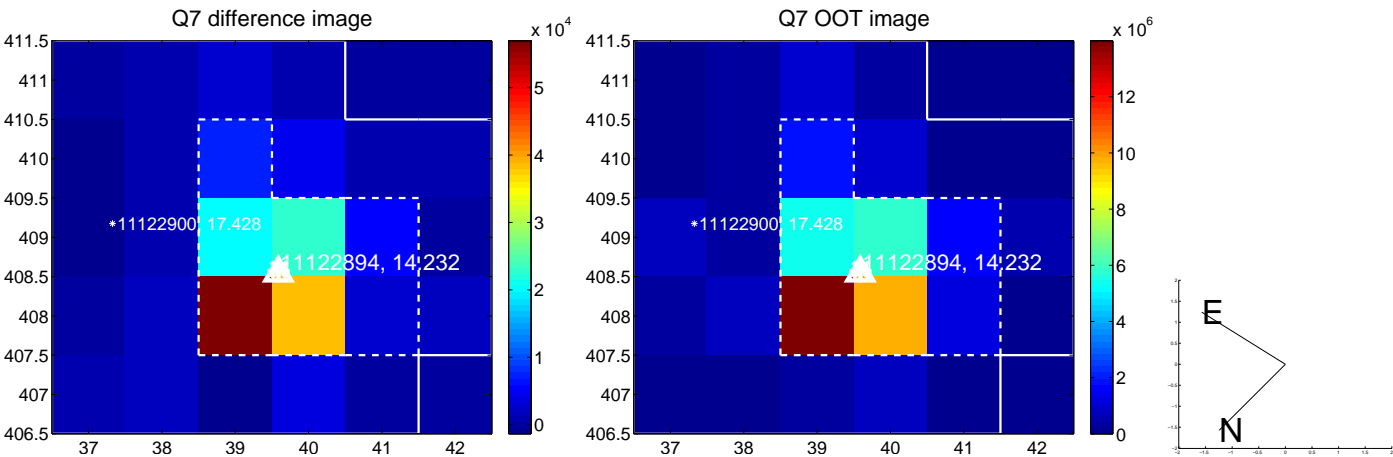
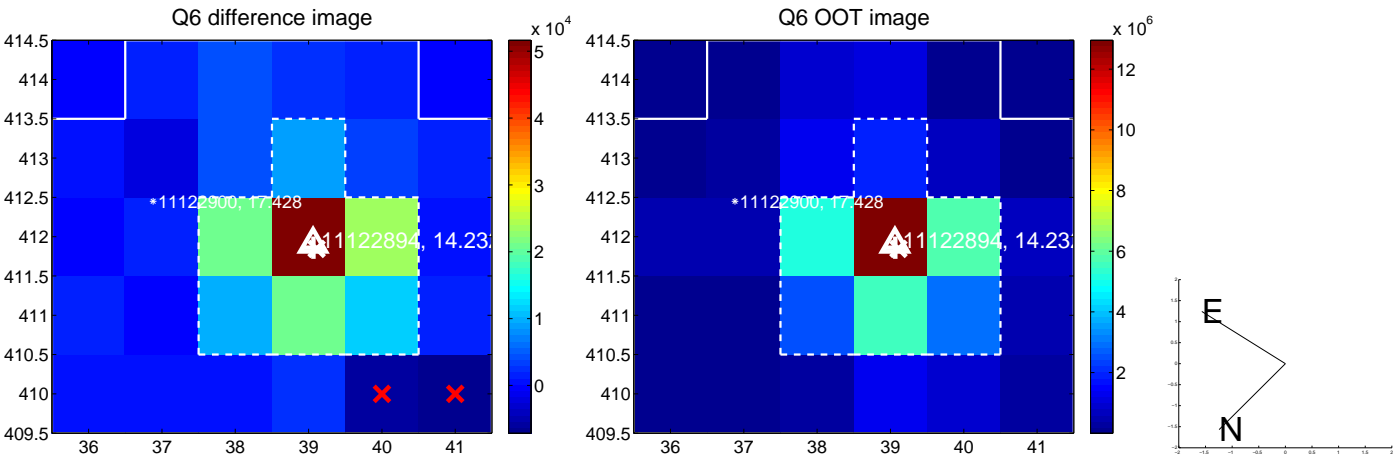
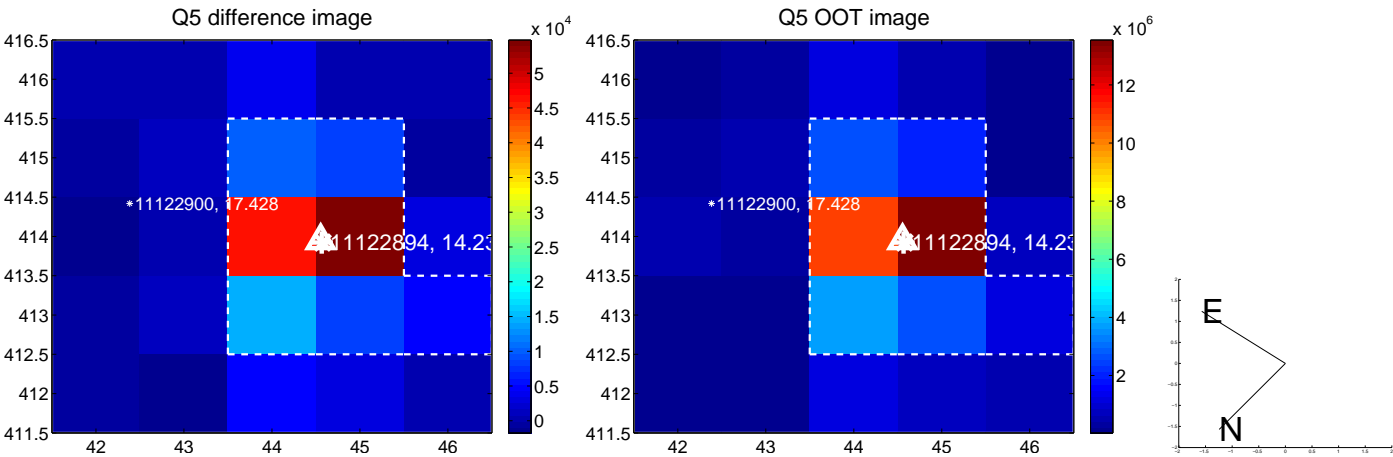


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

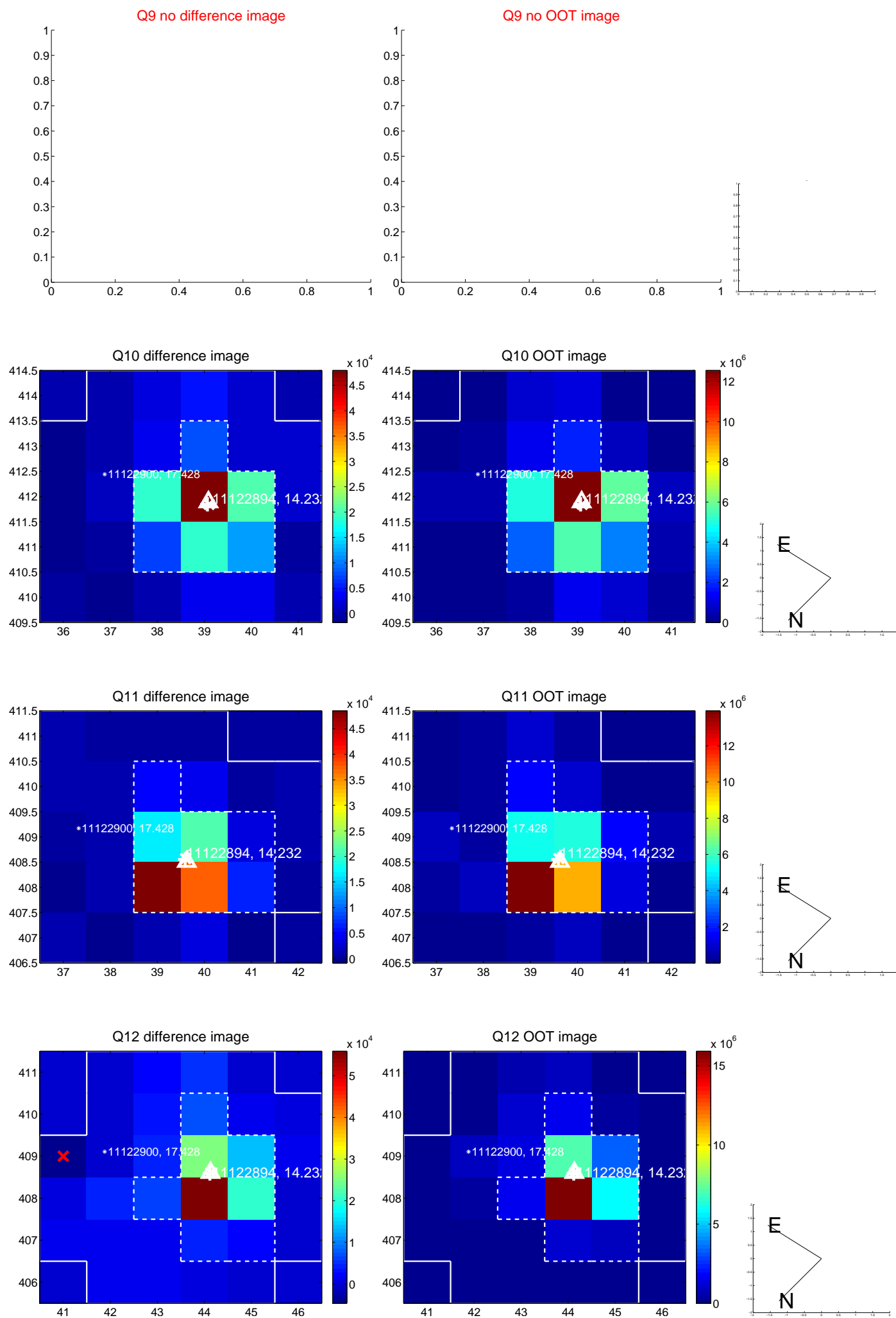
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



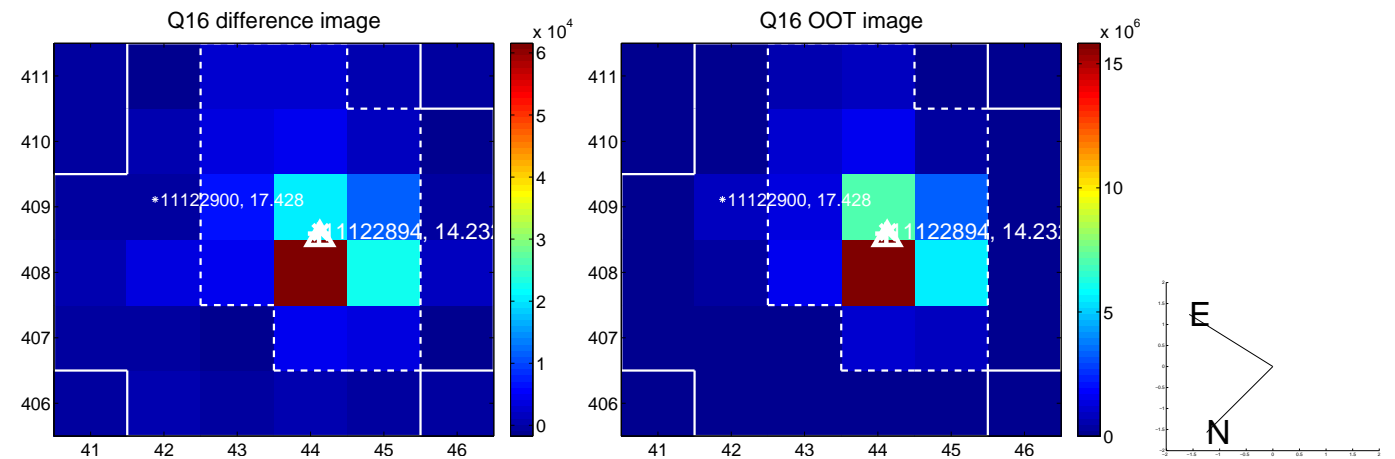
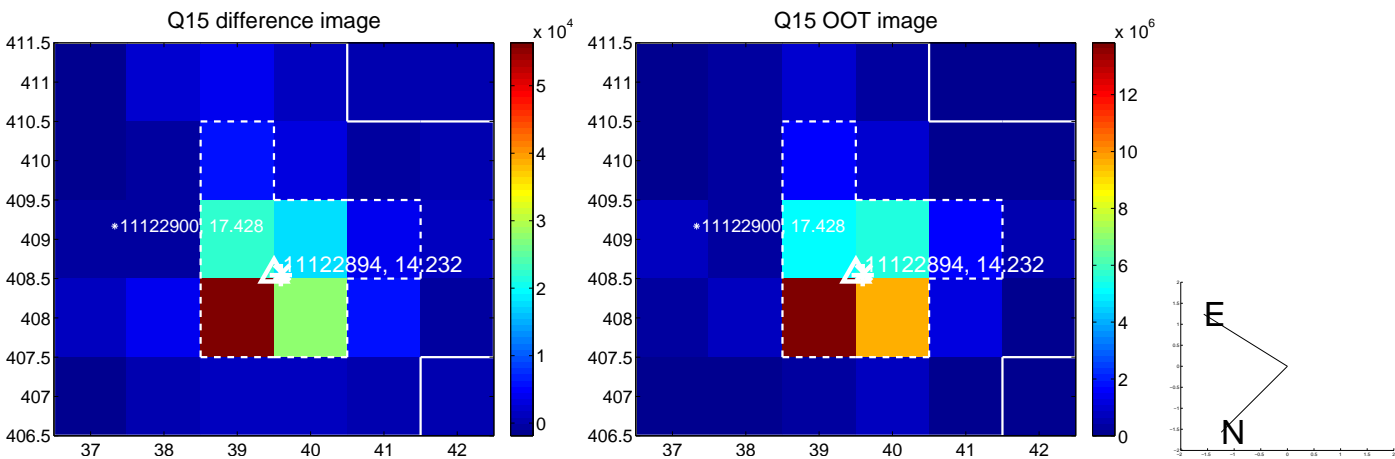
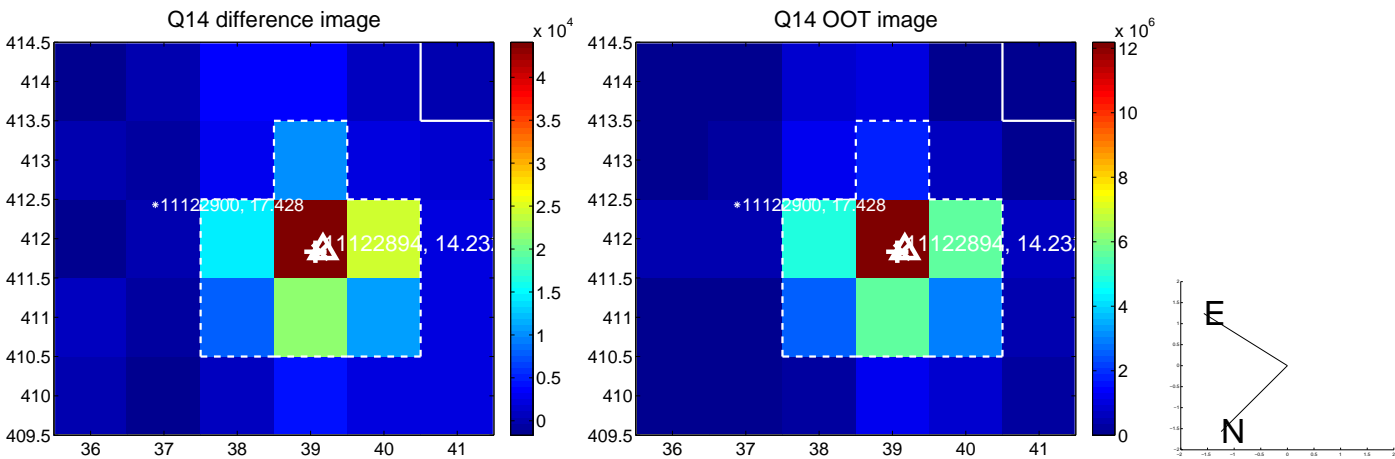
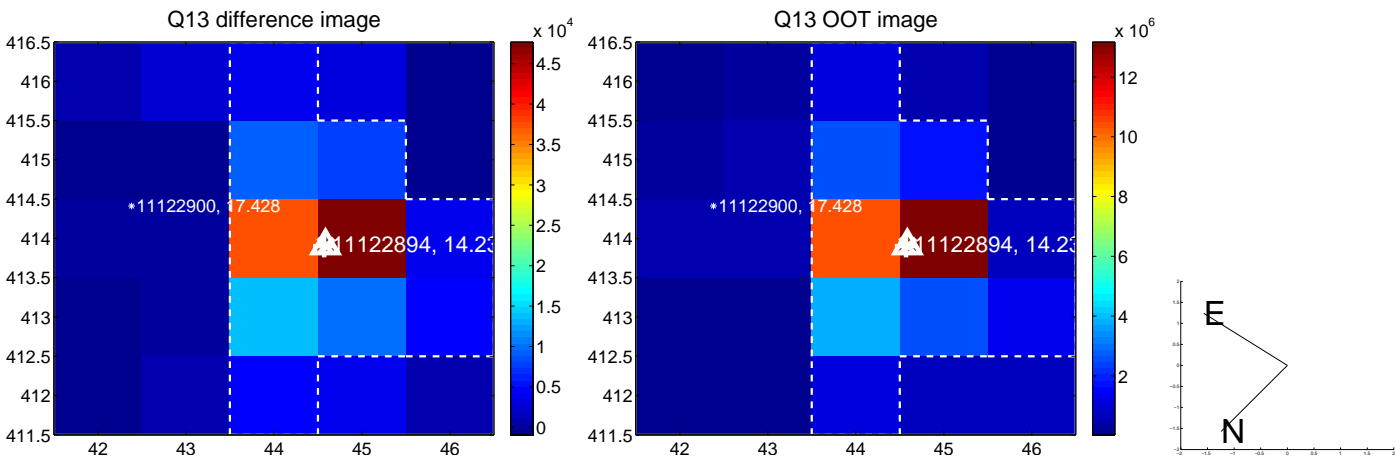
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



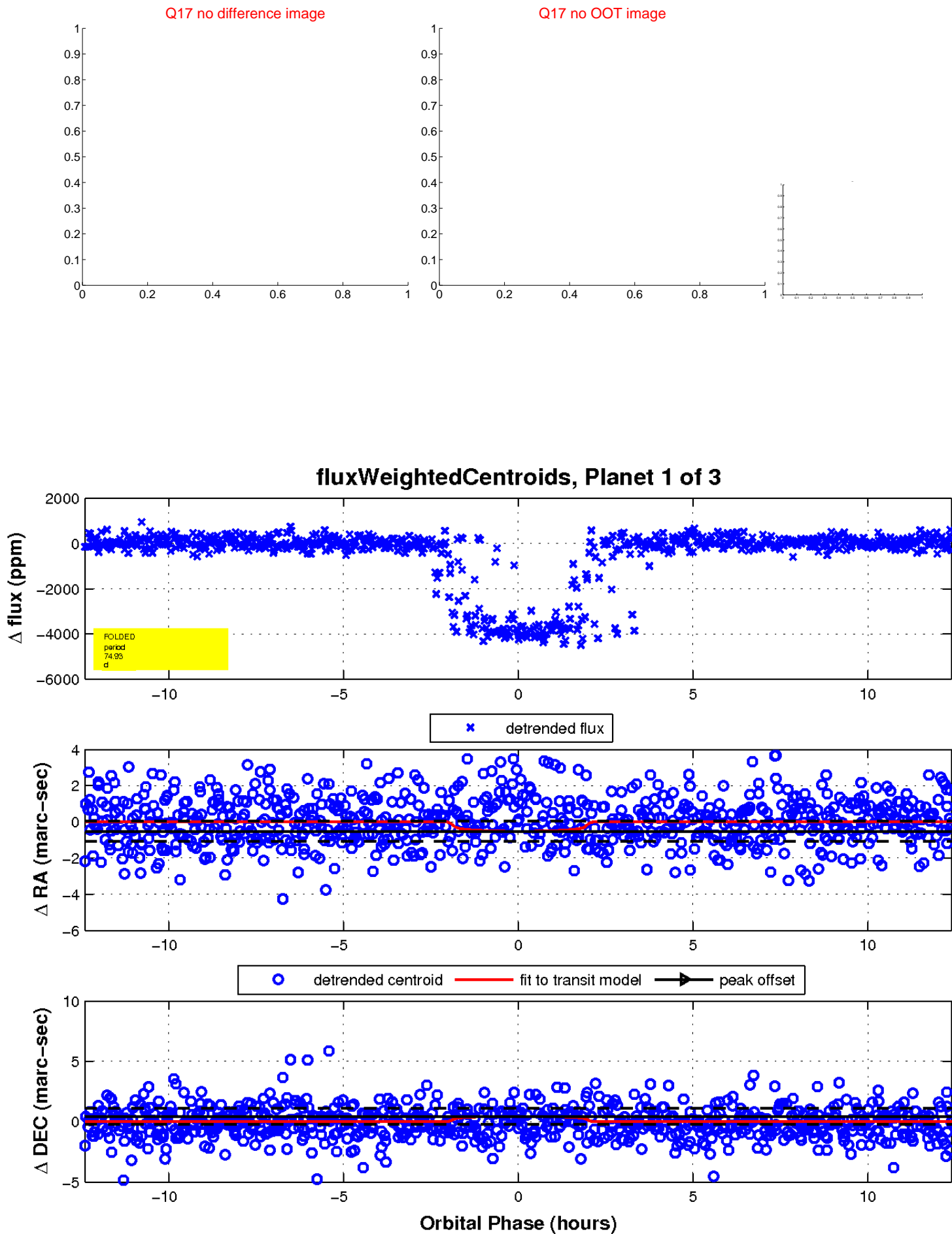
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

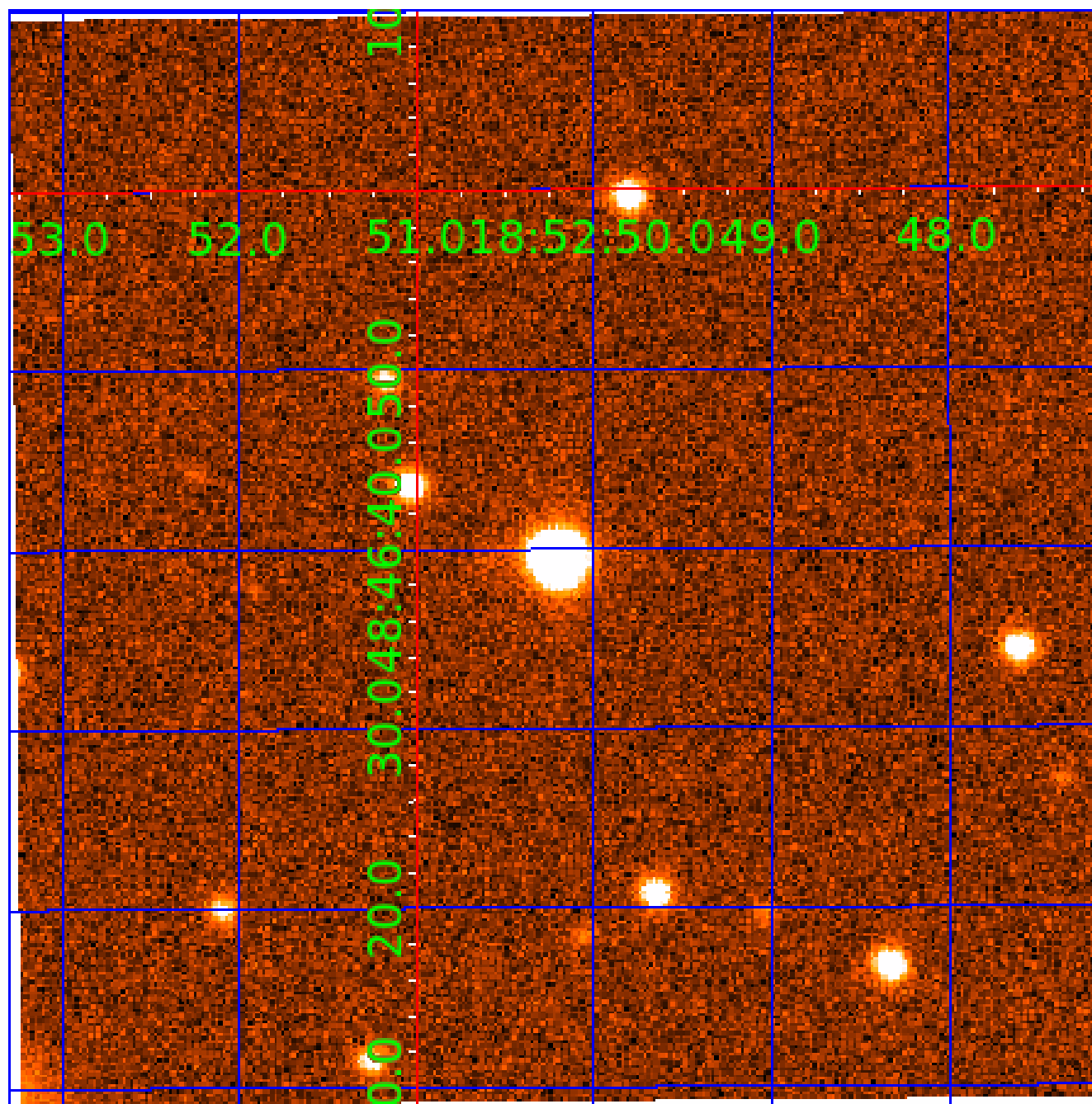


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011122894

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})
011122894-01	OBS	1426.02	74.931013	199.891284	4047.3	4.139	135.4	122.8	0.90	5618	5.67	6.63
011122894-02	OBS	1426.03	150.021338	224.679598	4159.4	3.853	92.4	81.2	0.90	5618	7.12	2.63
011122894-03	OBS	1426.01	38.868830	132.436372	970.5	7.781	55.3	57.5	0.90	5618	3.56	15.91

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011122894-01	OBS	PC	0.91	0	0	0	0	NO_COMMENT
011122894-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011122894-03	OBS	PC	1.00	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.

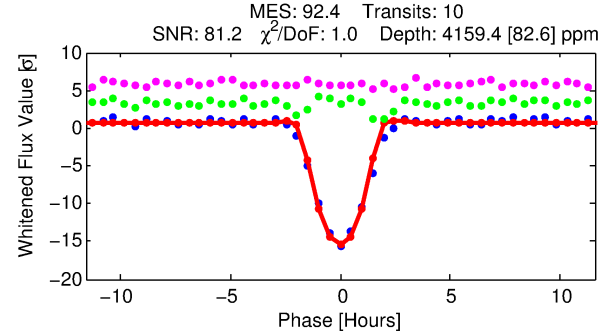
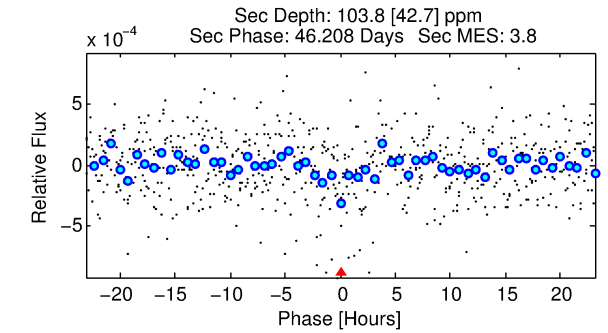
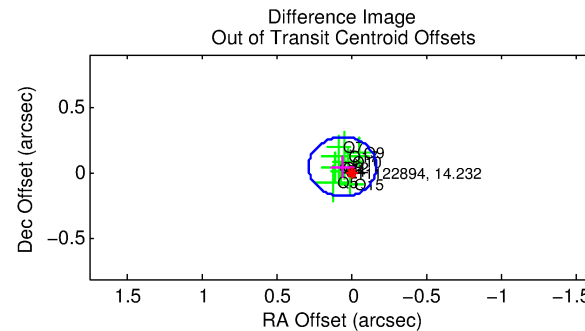
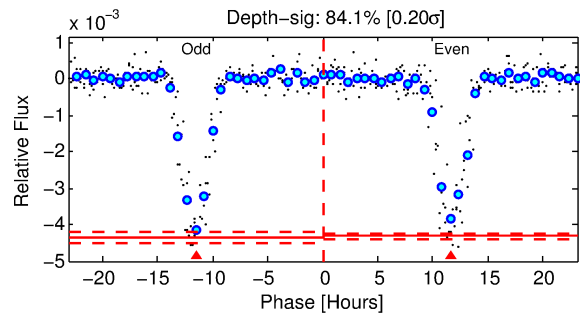
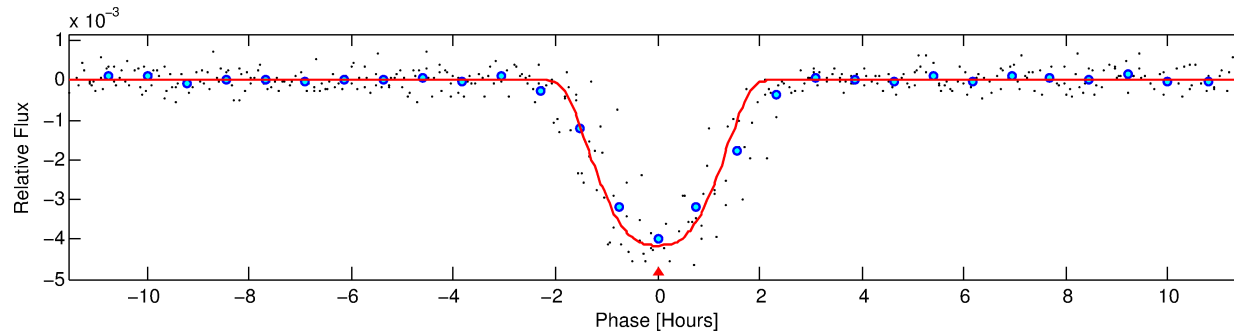
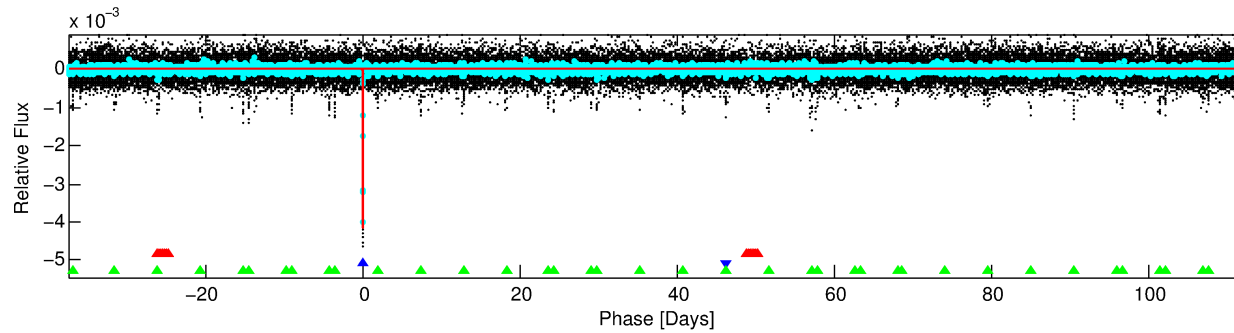
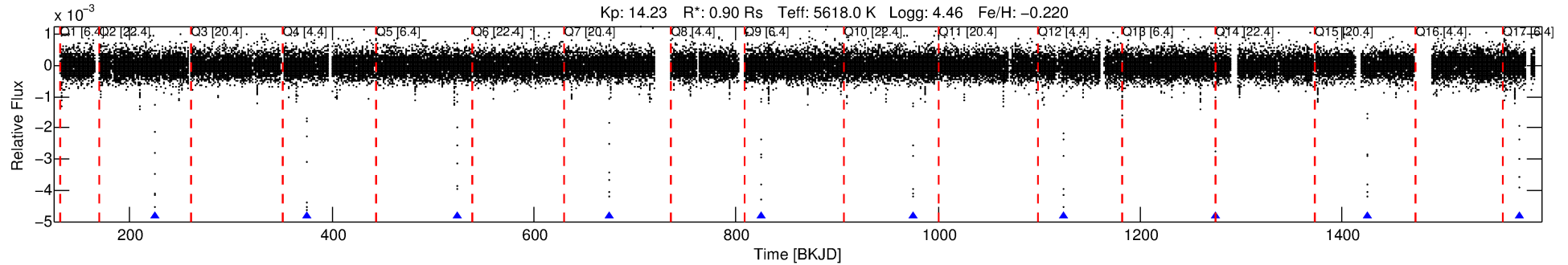
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011122894-02

No Significant Match Found

DV One-Page Summary

KIC: 11122894 Candidate: 2 of 3 Period: 150.021 d
KOI: K01426.03 Corr: 0.931



DV Fit Results:

Period = 150.02134 [0.00020] d
Epoch = 224.6796 [0.0010] BKJD
Rp/R* = 0.0727 [0.0013]
a/R* = 163.80 [4.69]
b = 0.92 [0.01]
Seff = 2.63 [0.46]
Teq = 325 [14] K
Rp = 7.12 [0.80] Re
a = 0.5228 [0.0528] AU
Ag = 307.78 [135.93] [2.26 σ]
Teffp = 2102 [221] K [8.03 σ]

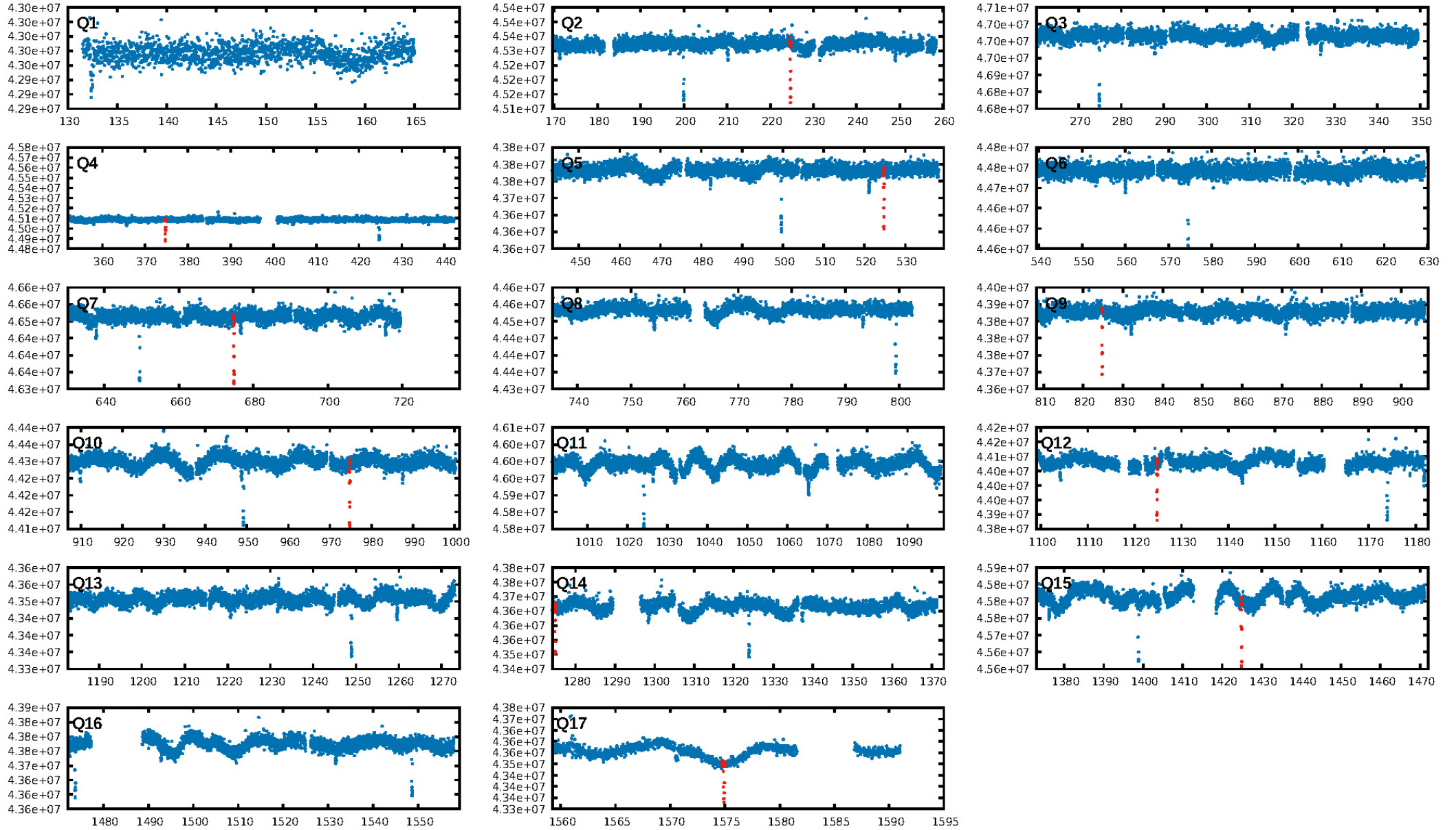
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [318.68 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 85.5%
ModelChiSquareGof-sig: 92.1%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [9/9]
GhostDiagnostic-chr: 3.897
Centroid-sig: 58.4%
Centroid-so: 0.391 arcsec [2.72 σ]
OotOffset-rm: 0.076 arcsec [1.01 σ]
KicOffset-rm: 0.172 arcsec [2.24 σ]
OotOffset-st: 2/2/2/3 [9]
KicOffset-st: 2/2/2/3 [9]
DiffImageQuality-fgm: 1.00 [9/9]
DiffImageOverlap-fno: 1.00 [9/9]

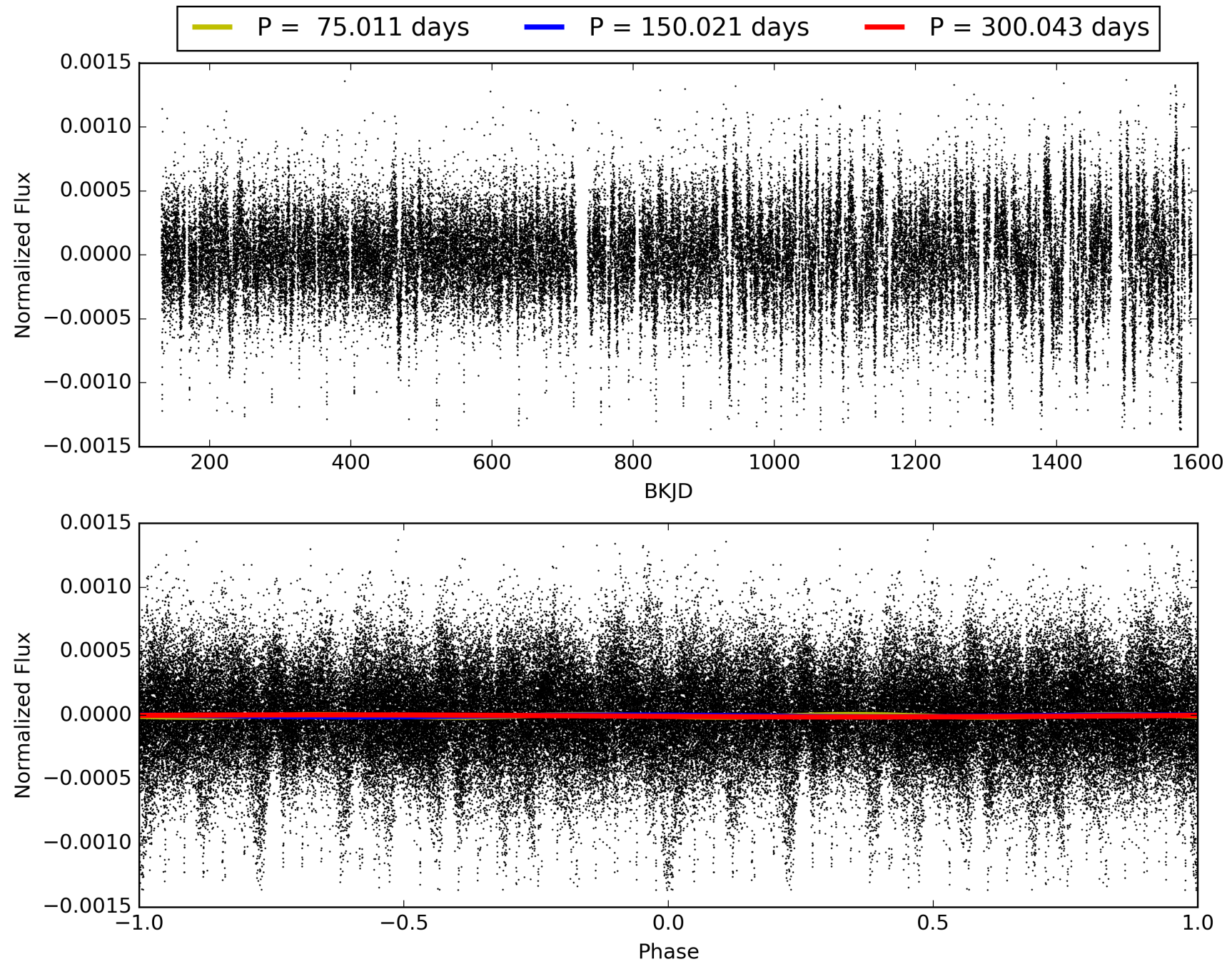
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 15:55:37 Z

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

TCE 011122894-02, PDC Light Curves

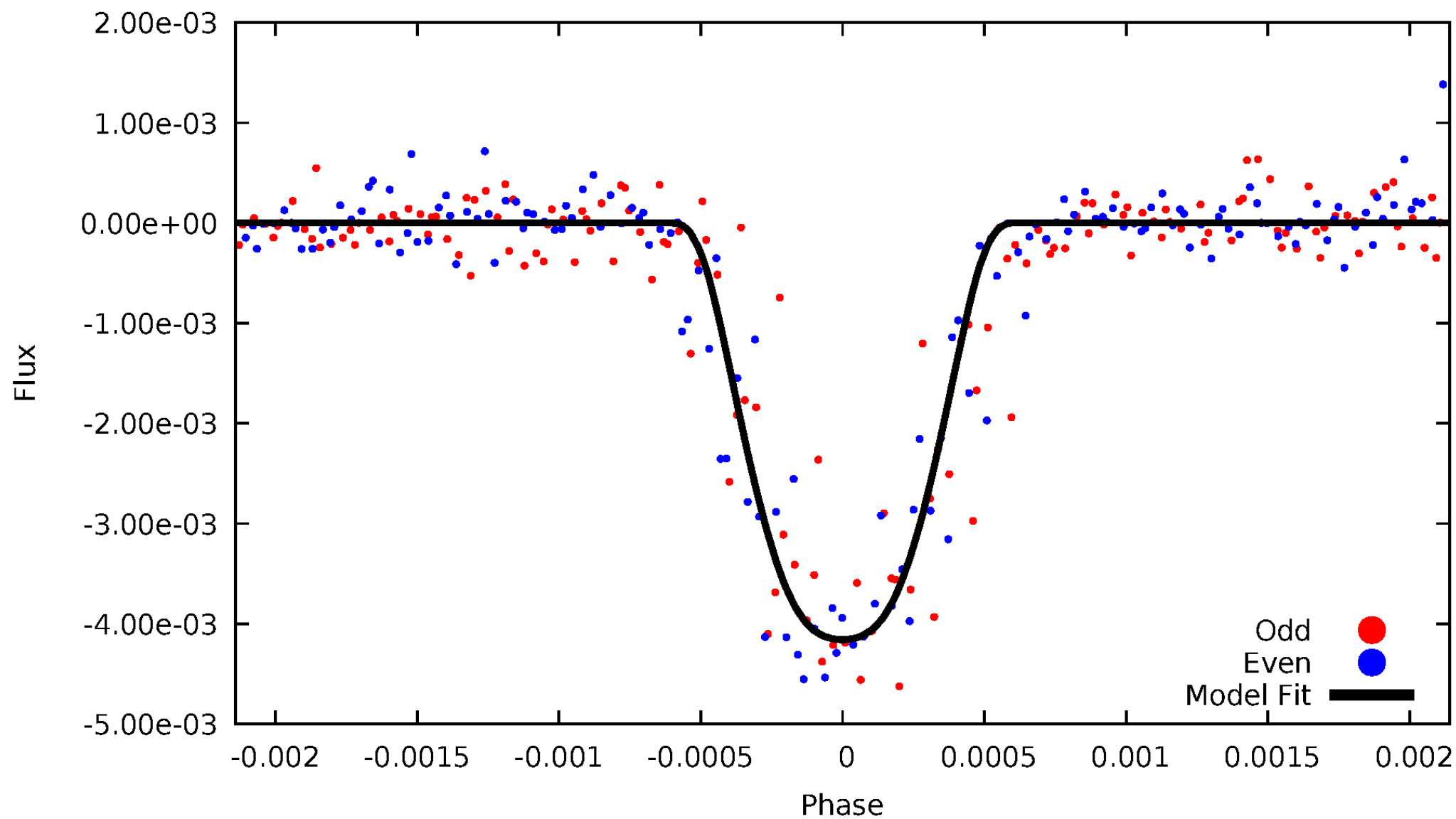


TCE 011122894-02



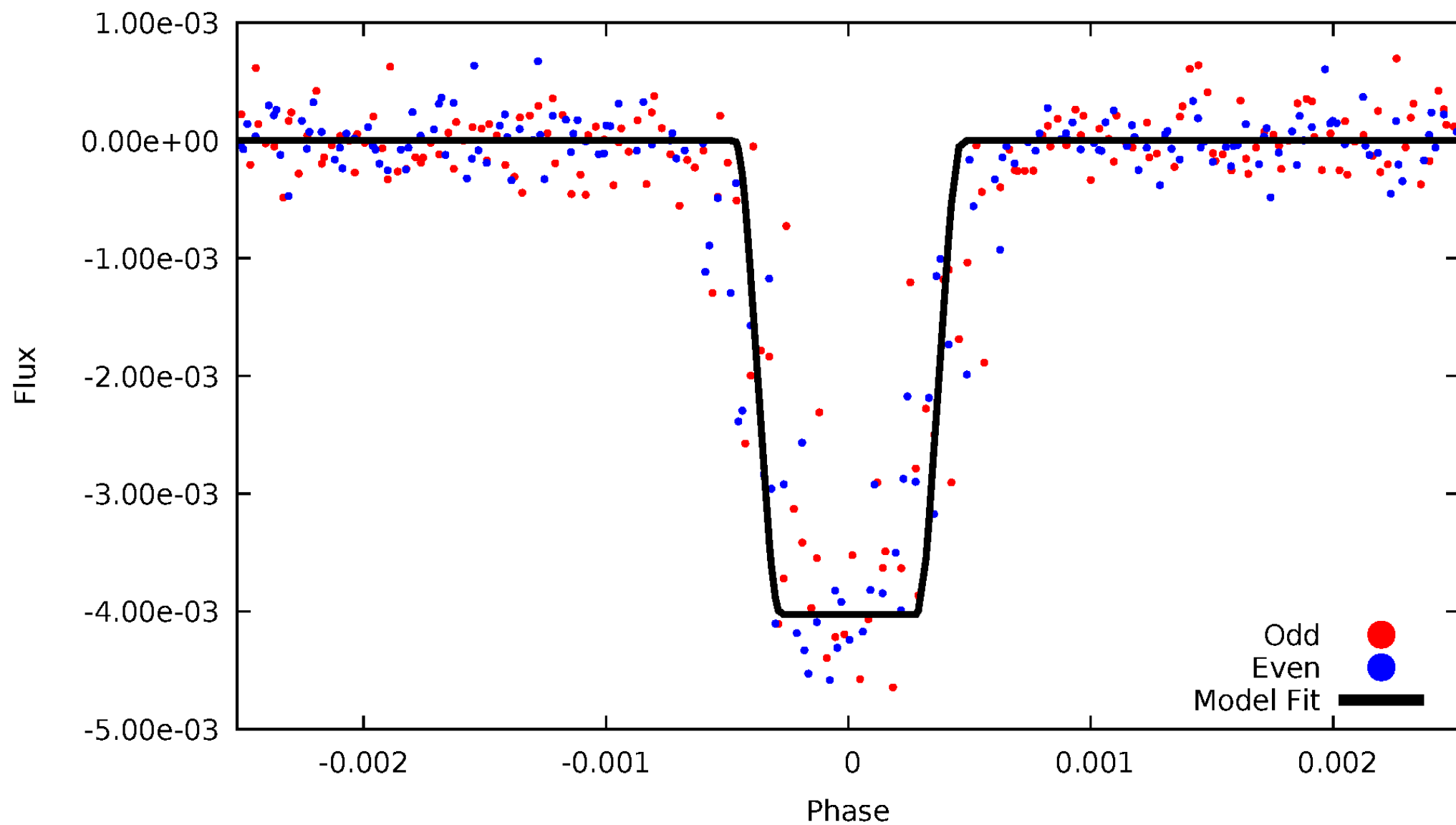
DV Odd/Even

TCE 011122894-02



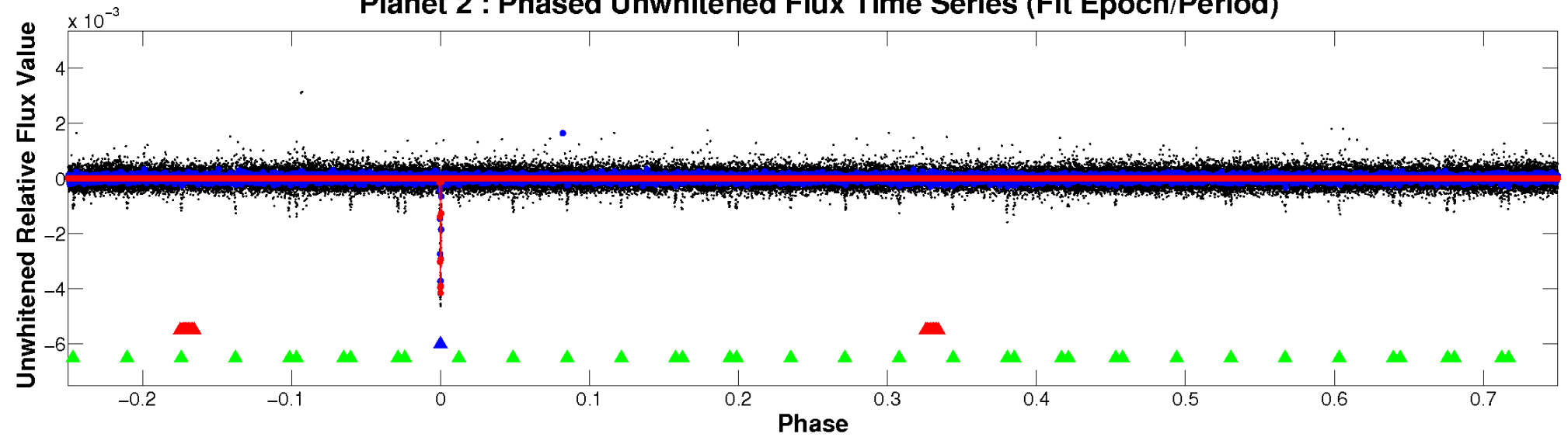
ALT Odd/Even

TCE 011122894-02

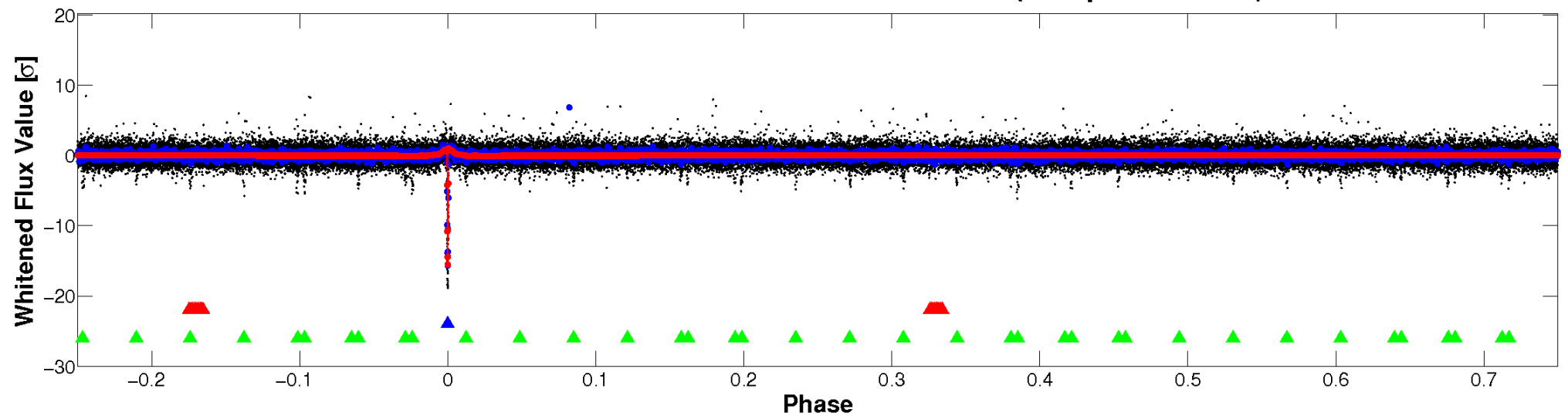


Non-Whitened Vs. Whitened Light Curve

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

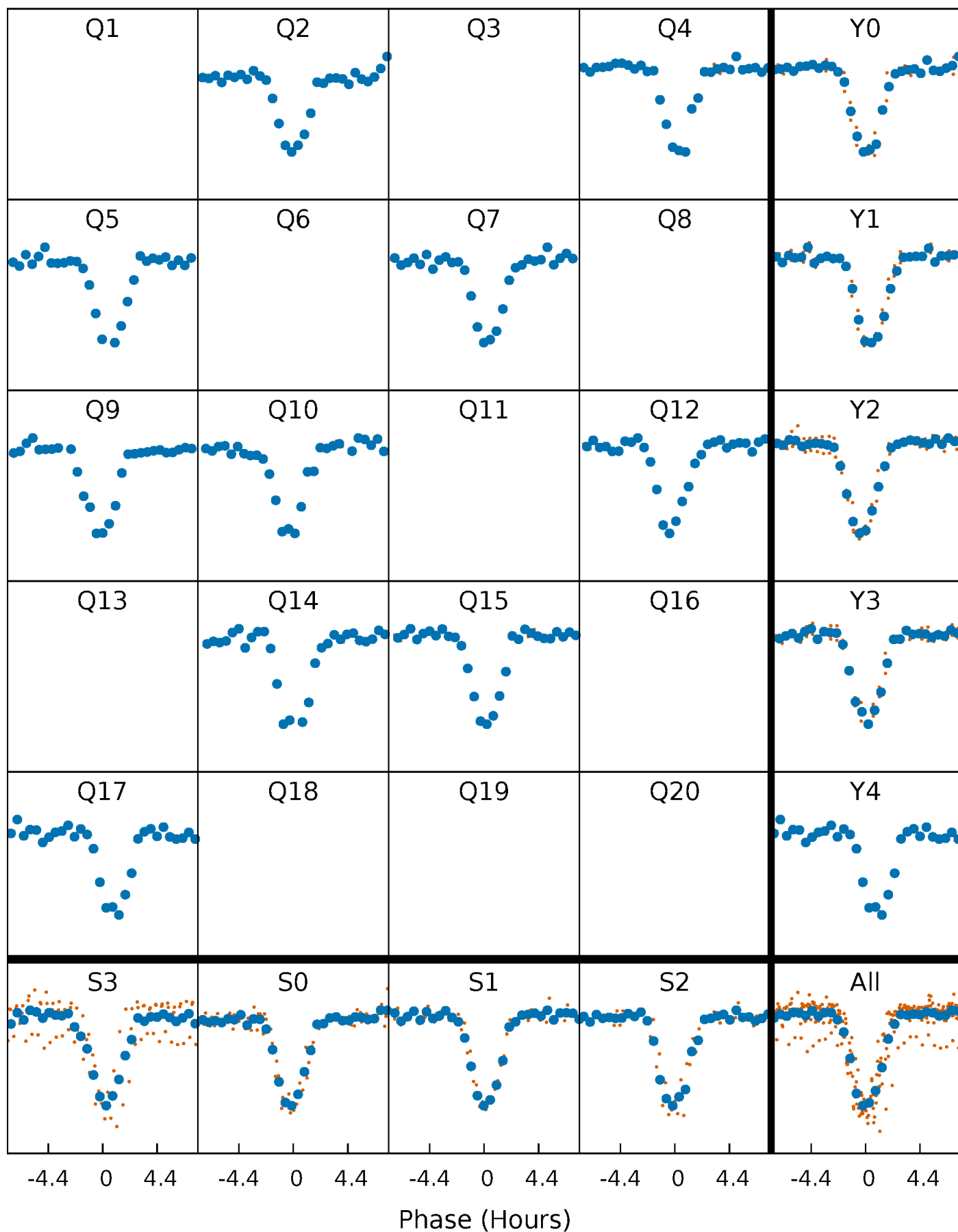


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



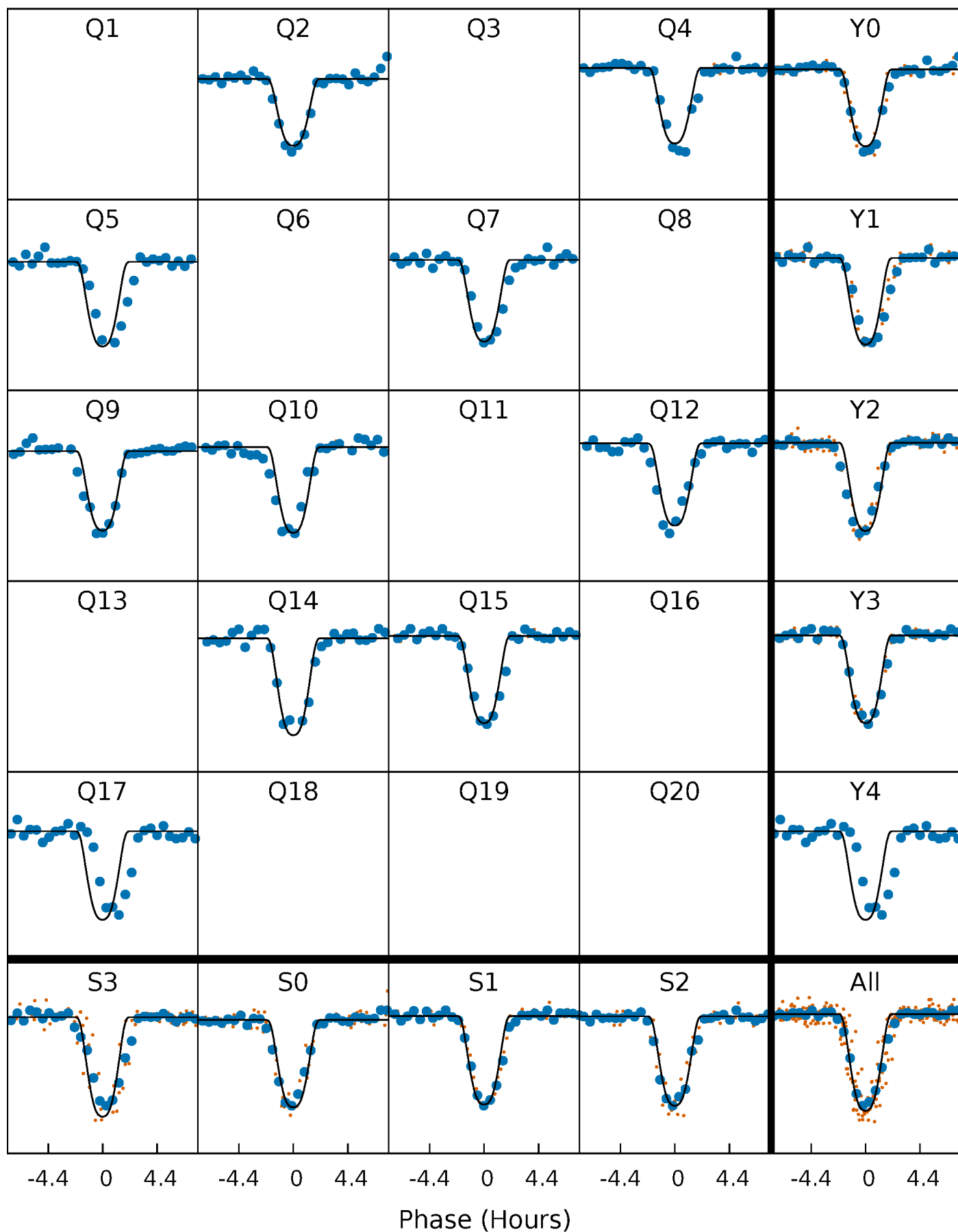
PDC Quarter-Phased Transit Curves

TCE 011122894-02 P=150.021338 Days $T_0=224.679598$ (BKJD)



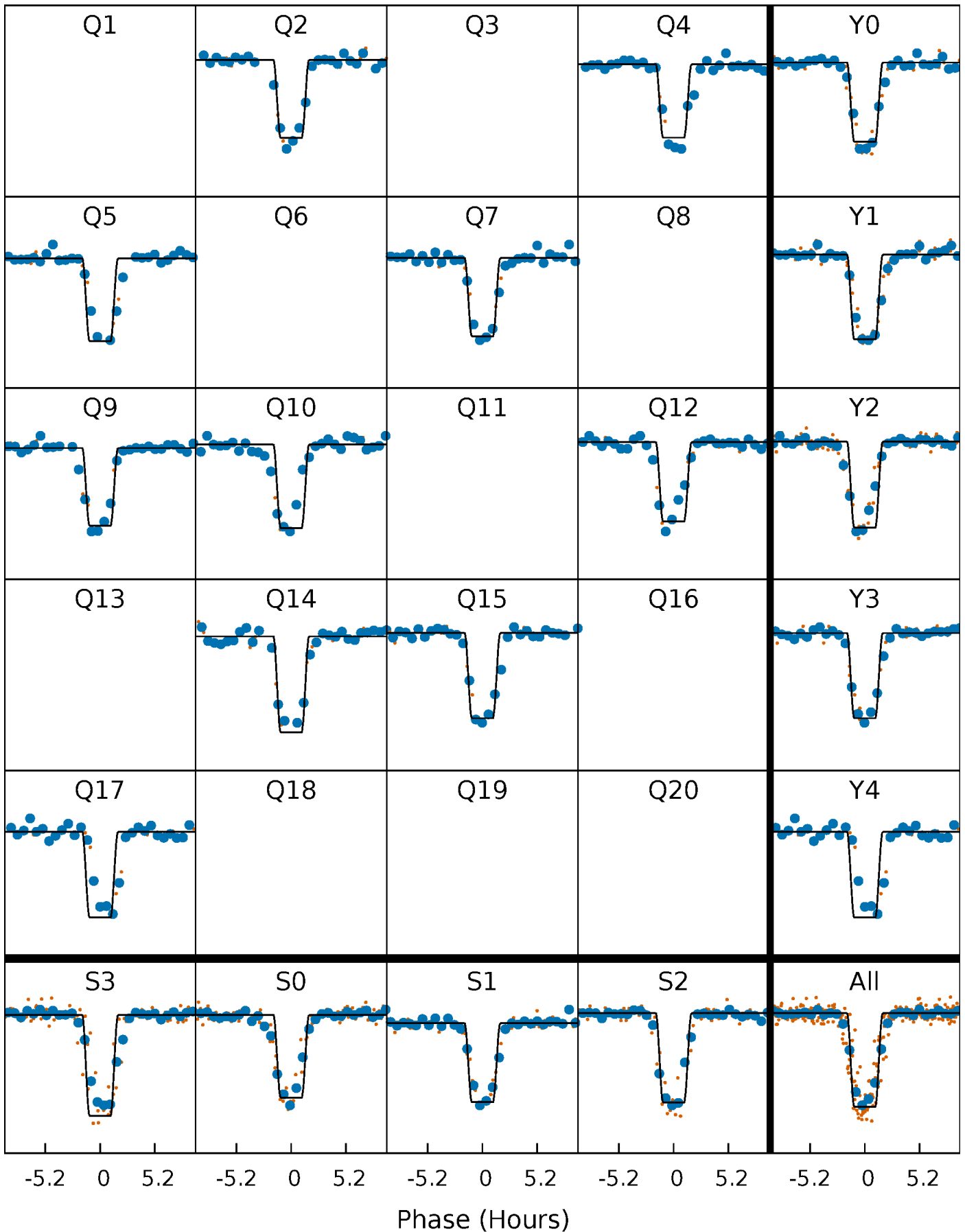
DV Quarter-Phased Transit Curves

TCE 011122894-02 P=150.021338 Days $T_0=224.679598$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

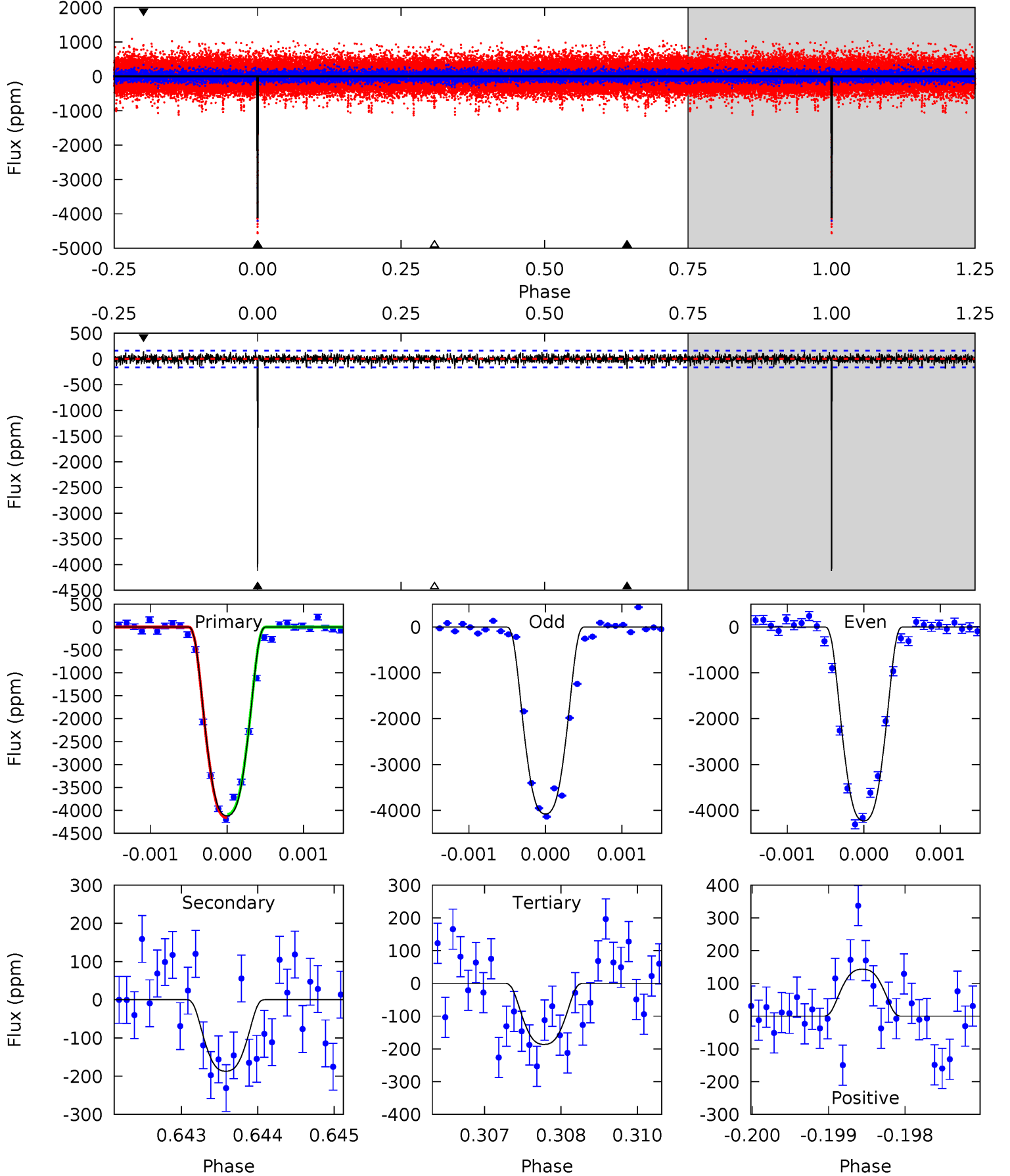
TCE 011122894-02 P=150.021667 Days $T_0=224.681786$ (BKJD)



DV Model-Shift Uniqueness Test

011122894-02, P = 150.021338 Days, E = 74.658260 Days

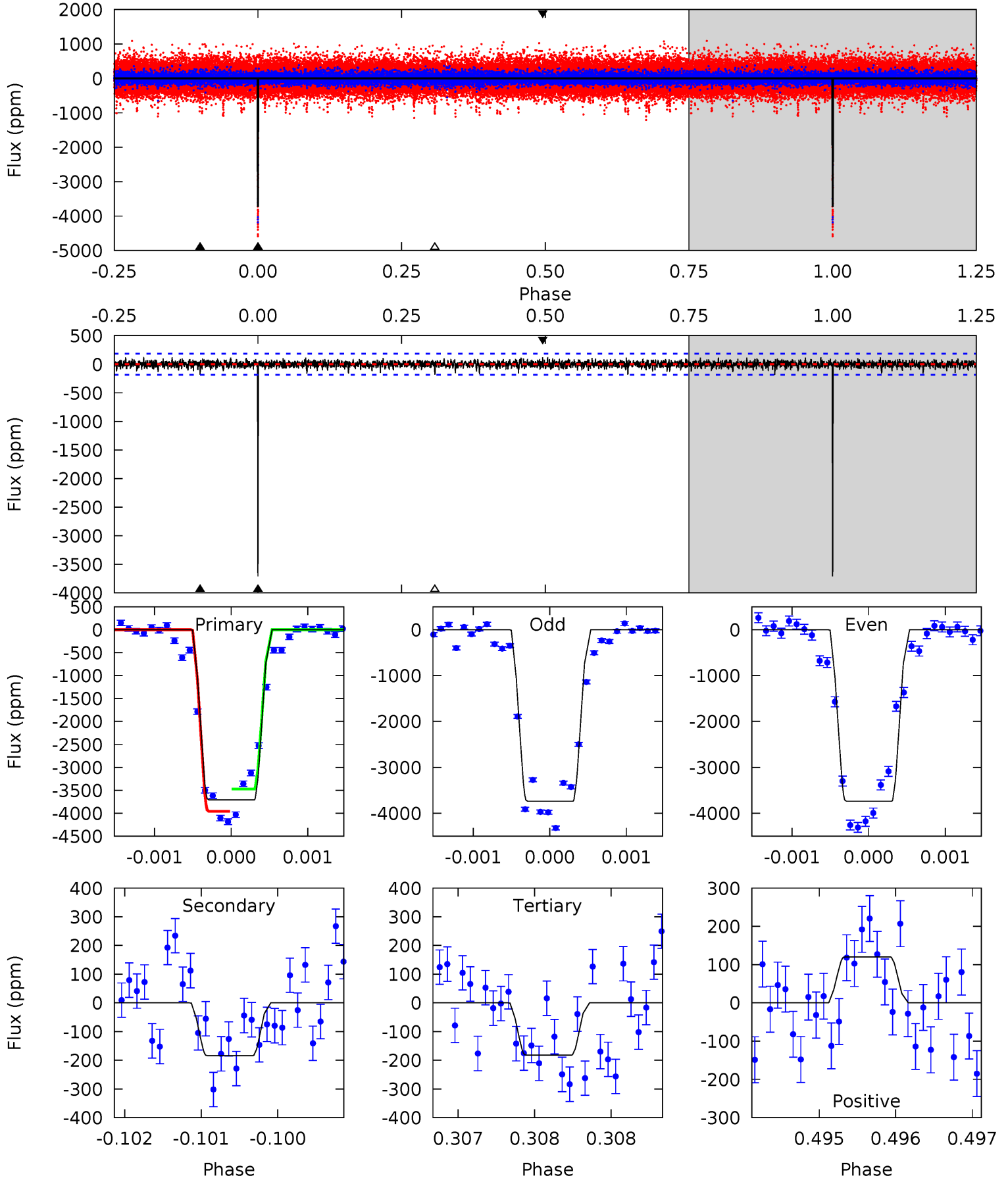
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
138.6	6.29	6.27	4.82	5.42	3.24	1.47	132.3	133.8	0.02	1.47	2.55	0.98	0.03	1.22



Alt Model-Shift Uniqueness Test

011122894-02, P = 150.021667 Days, E = 74.660119 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
109.9	5.45	5.39	3.55	5.47	3.31	1.10	104.5	106.3	0.06	1.90	0.01	0.99	0.03	7.19



Stellar Parameters For KIC 011122894

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5618^{+112}_{-112}	$4.460^{+0.081}_{-0.090}$	$-0.220^{+0.150}_{-0.150}$	$0.897^{+0.099}_{-0.081}$	$0.846^{+0.059}_{-0.049}$	$1.652^{+0.574}_{-0.426}$
	+2%/-2%	+2%/-2%	+68%/-68%	+11%/-9%	+7%/-6%	+35%/-26%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 011122894-02 / KOI 1426.03

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-187 ± 30	$7.13^{+0.51}_{-0.39}$	454^{+17}_{-15}	3070^{+81}_{-78}	552^{+115}_{-101}
Alt.	-184 ± 34	$6.23^{+0.43}_{-0.38}$	455^{+17}_{-17}	3191^{+93}_{-105}	711^{+156}_{-155}

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

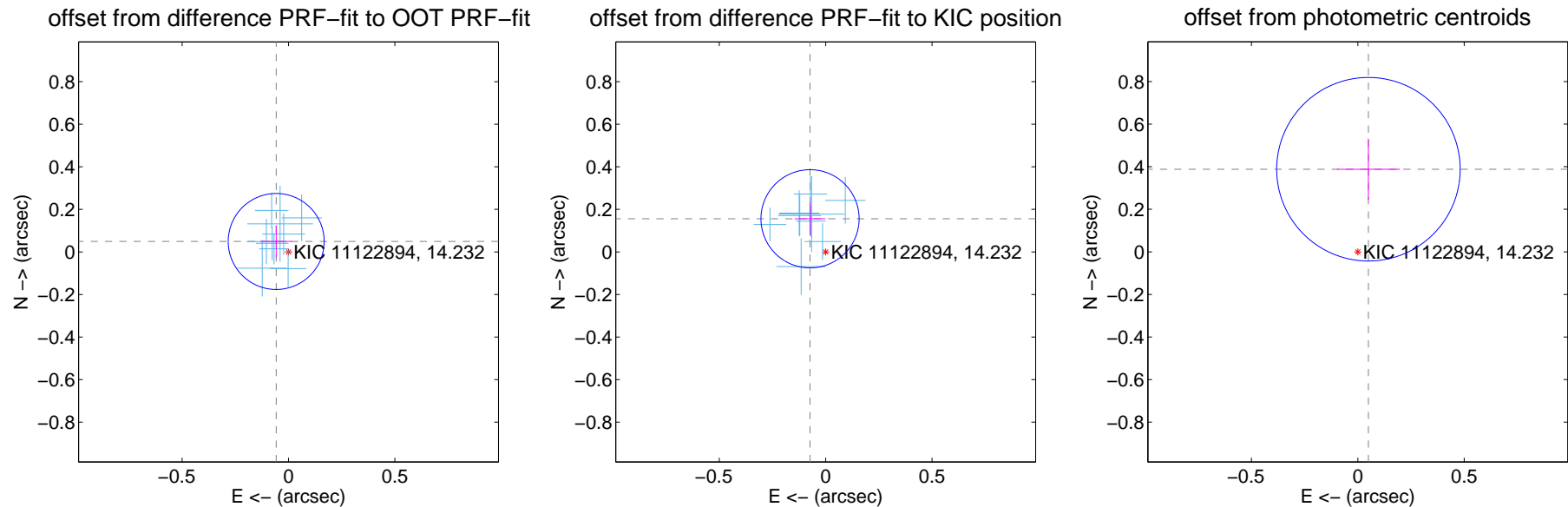
DV Centroid Data

Supplemental centroid analysis for 011122894-02. Kepler magnitude: 14.23. Transit SNR 81.16

There are 9 quarters with good PRF difference image offsets

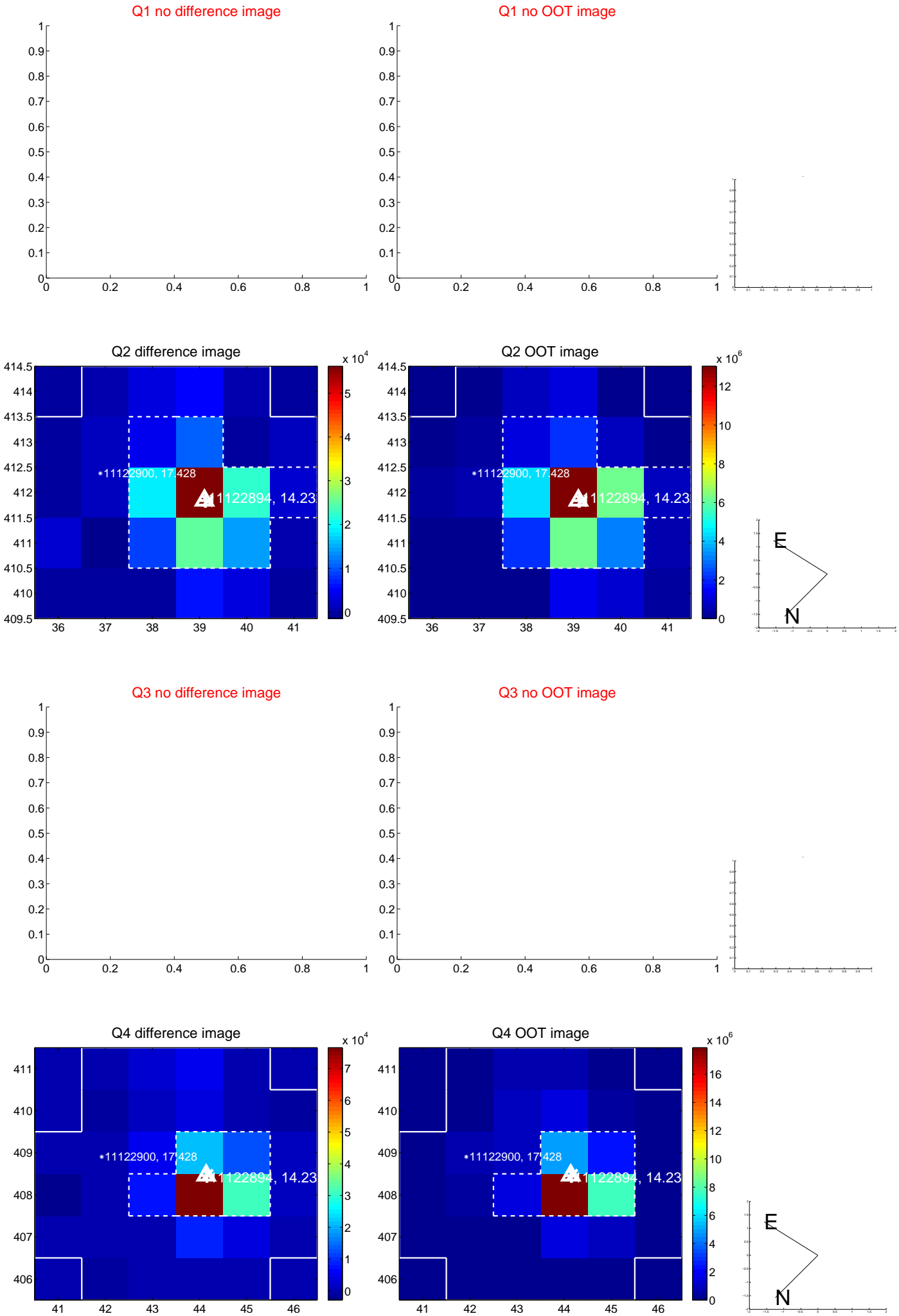
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.076 ± 0.075	1.01	0.058 ± 0.075	0.049 ± 0.076
PRF-fit source offset from KIC position	0.172 ± 0.077	2.24	0.073 ± 0.072	0.156 ± 0.078
photometric centroid source offset	0.39 ± 0.14	2.72	-0.05 ± 0.15	0.39 ± 0.14

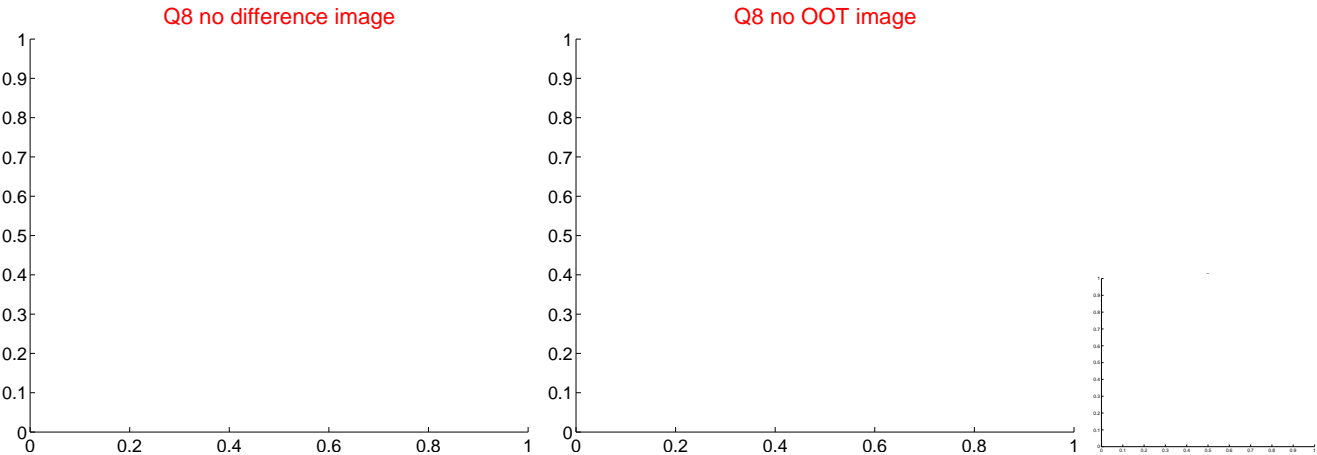
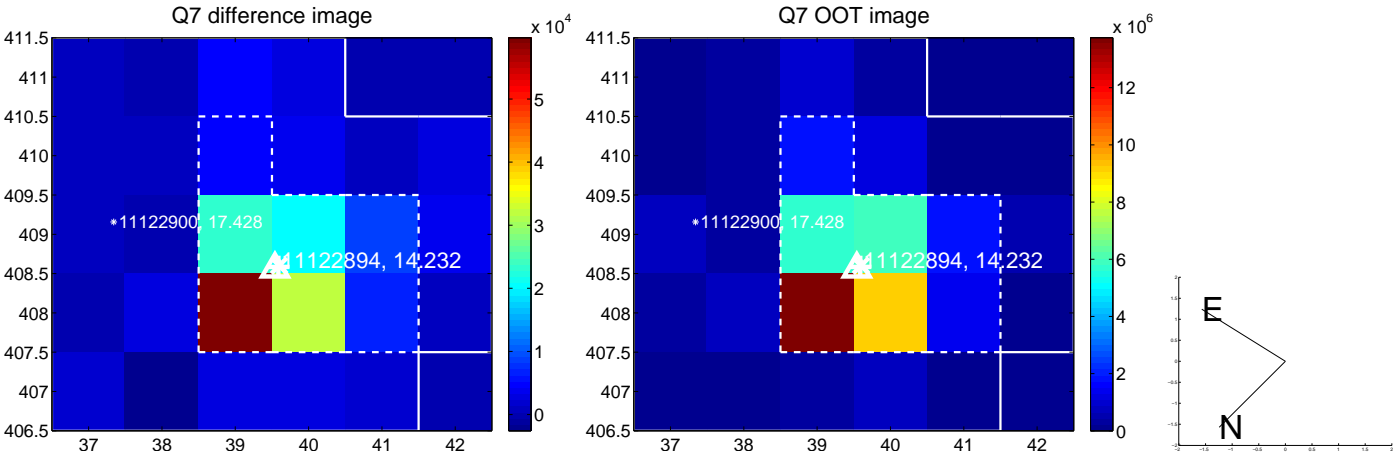
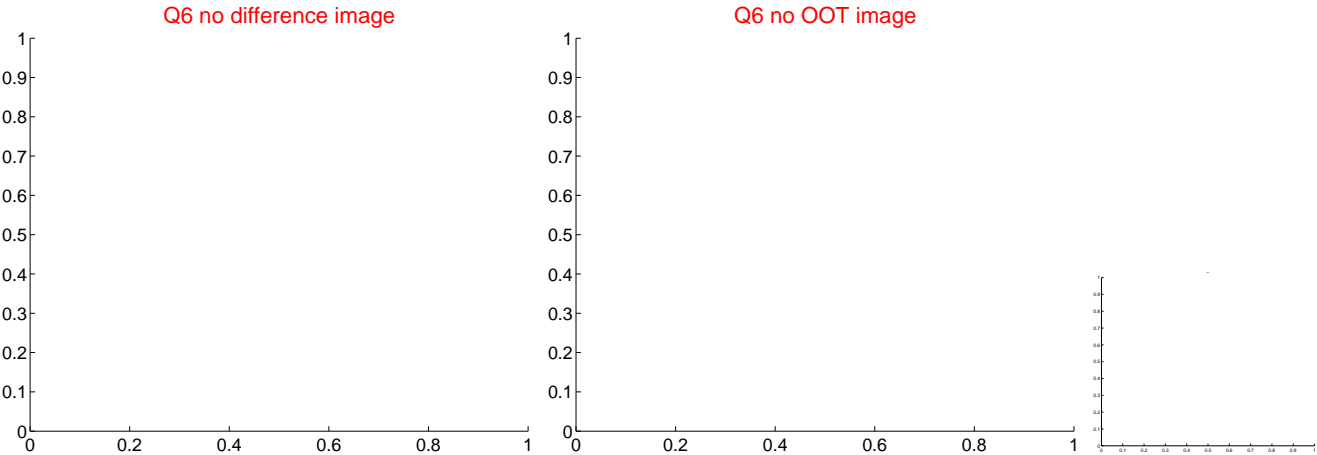
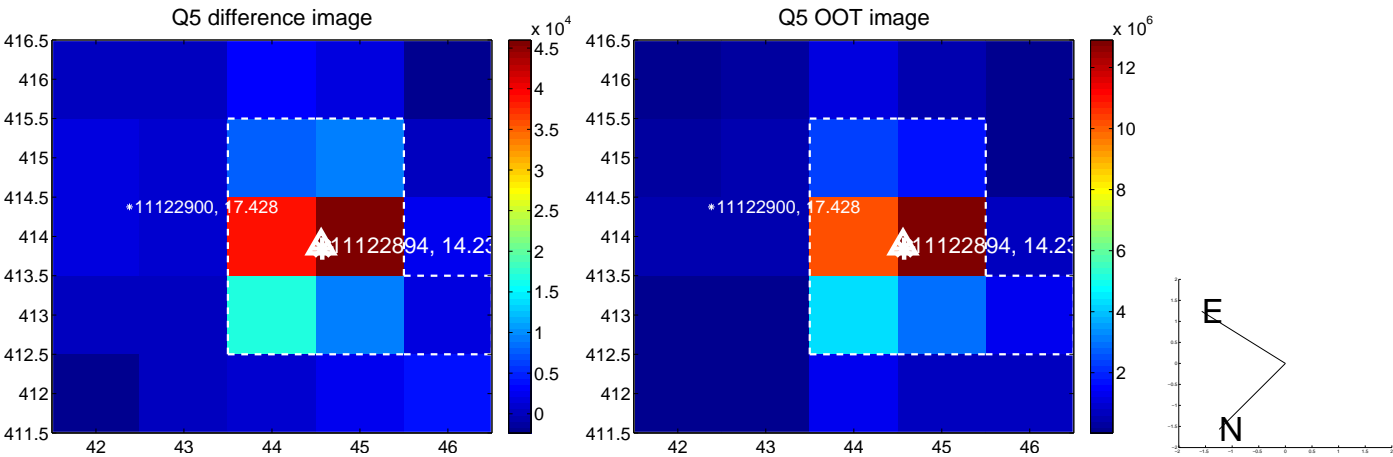


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

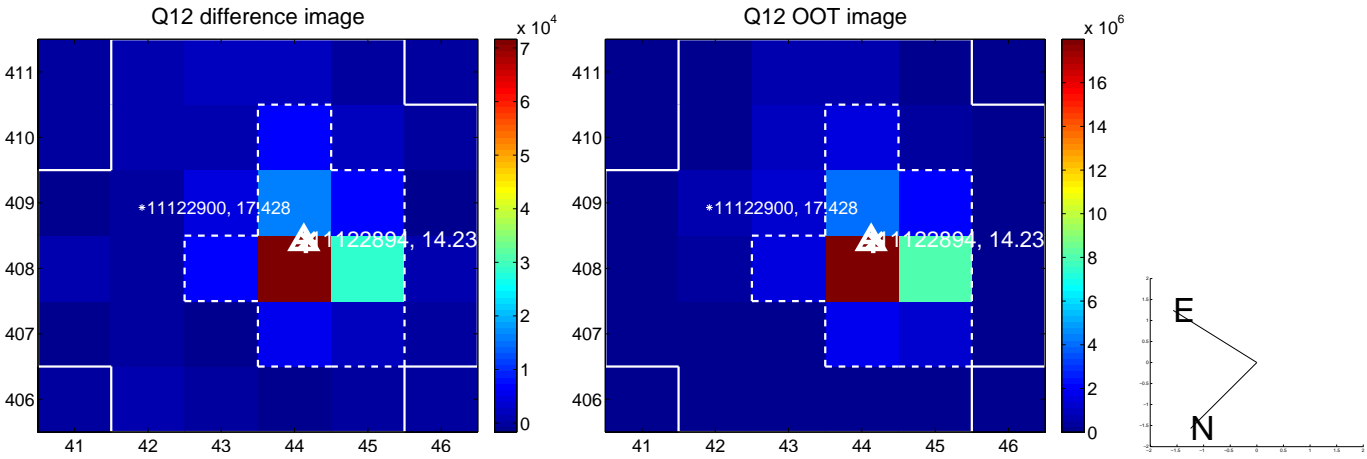
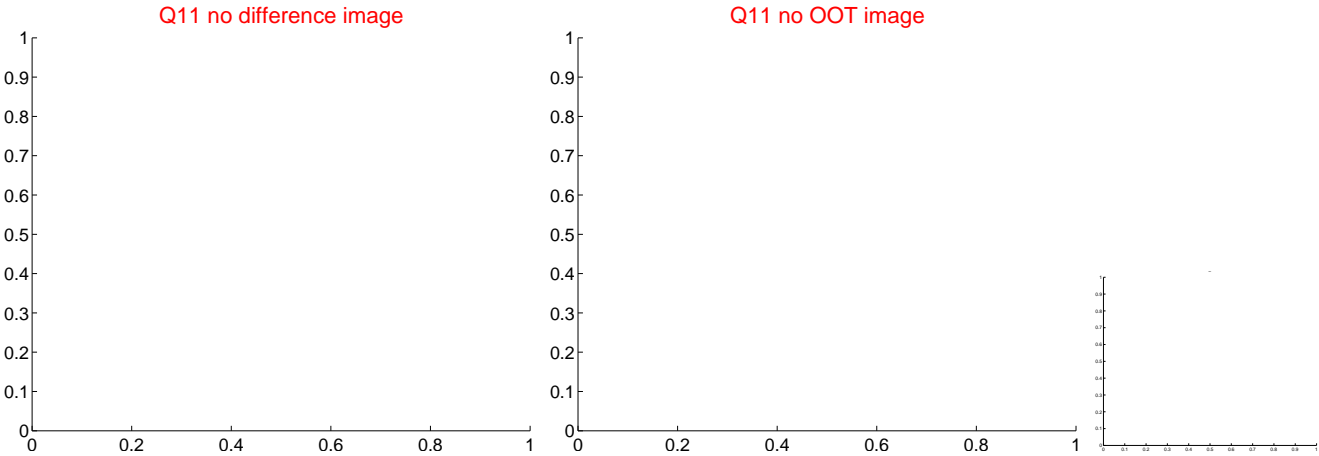
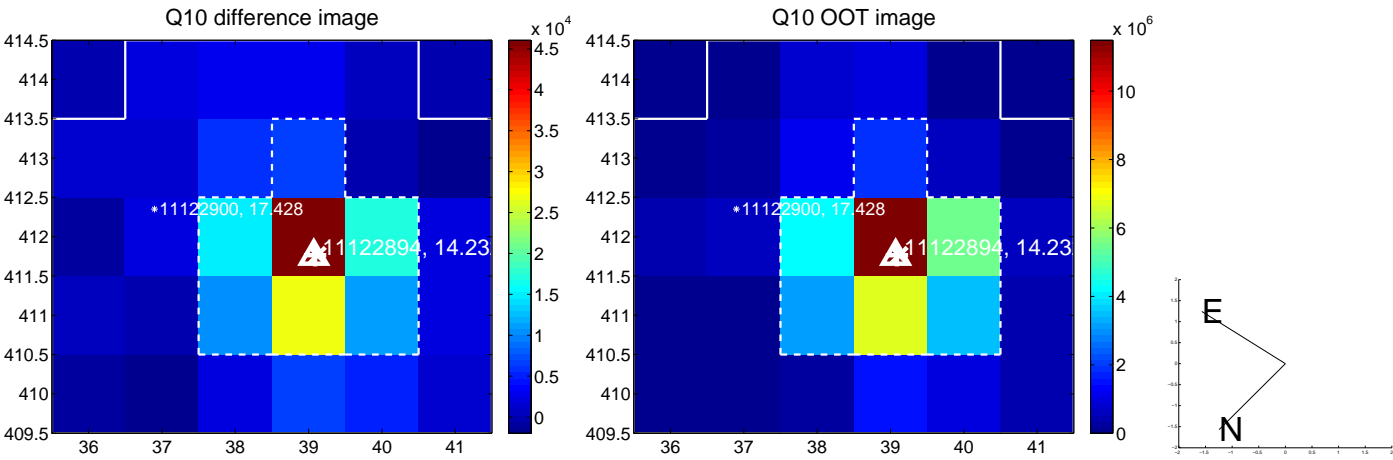
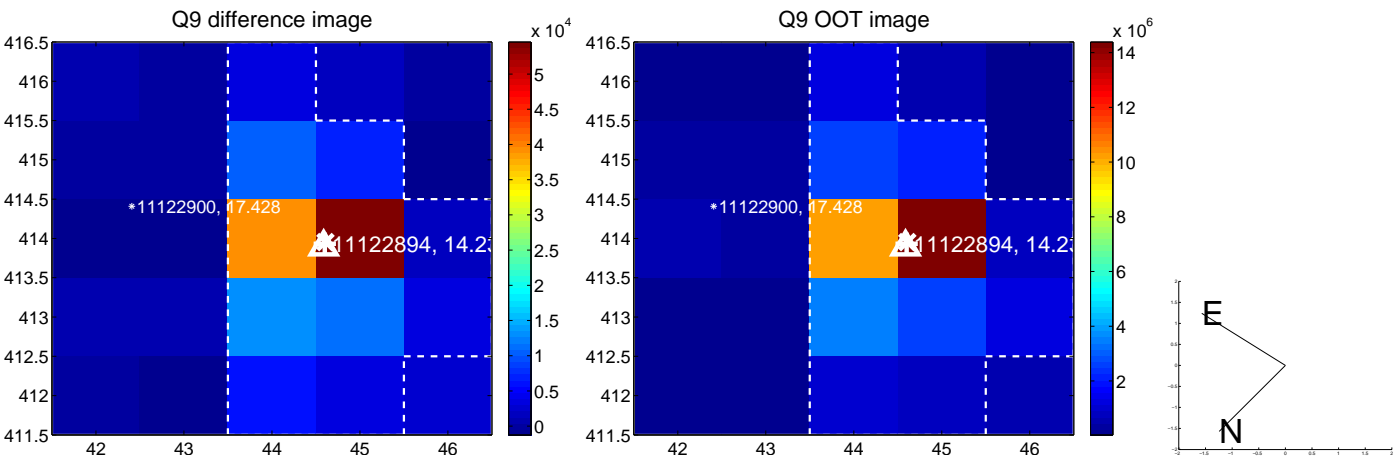
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

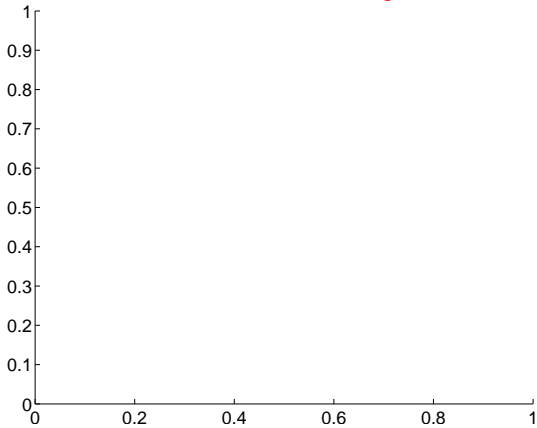


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

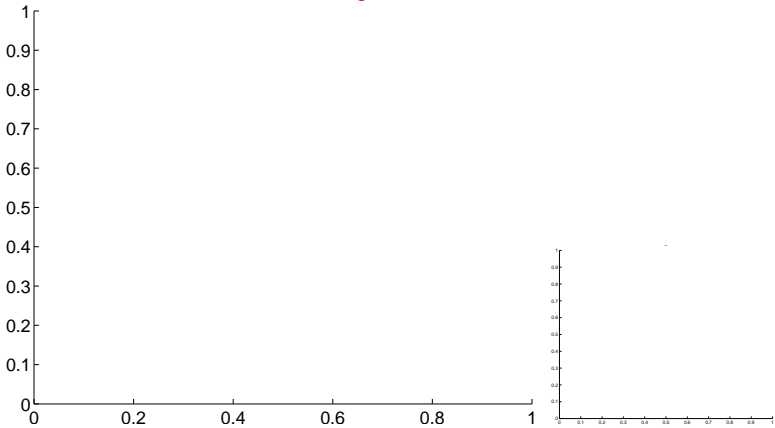


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

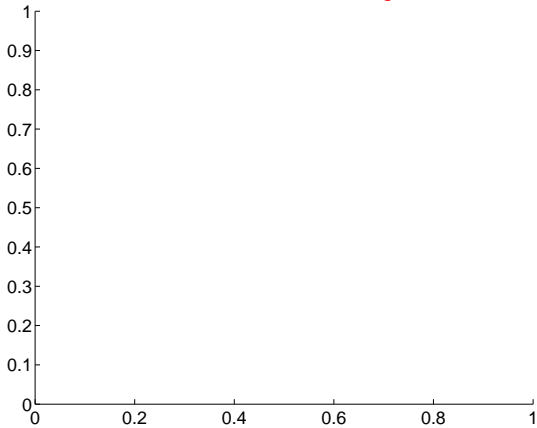
Q13 no difference image



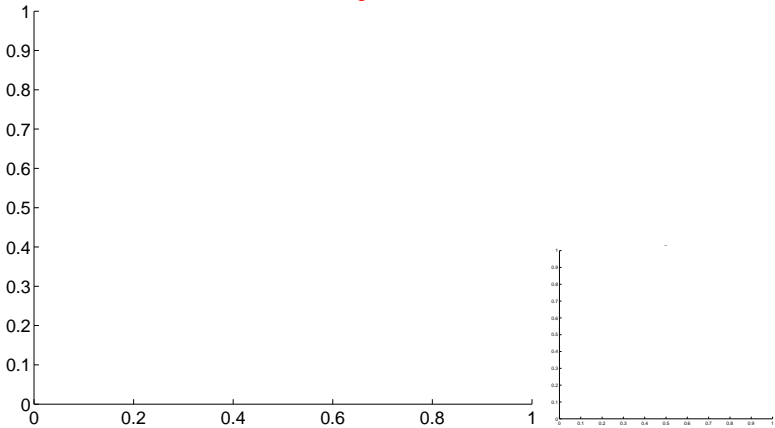
Q13 no OOT image



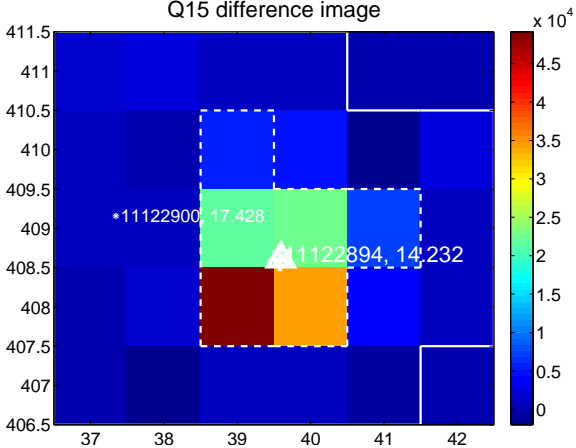
Q14 no difference image



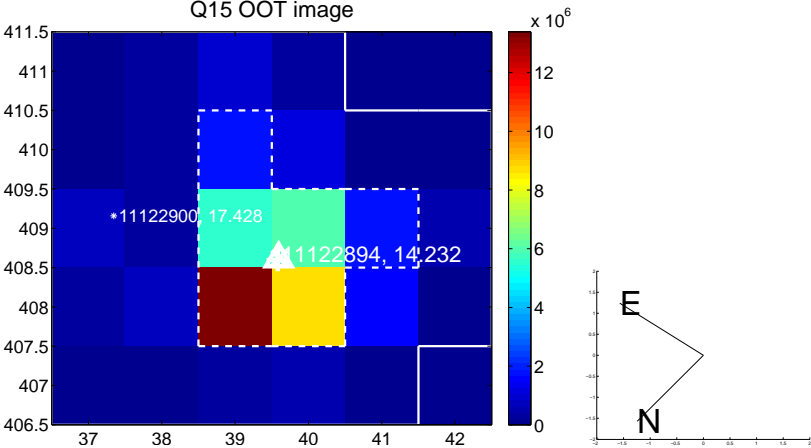
Q14 no OOT image



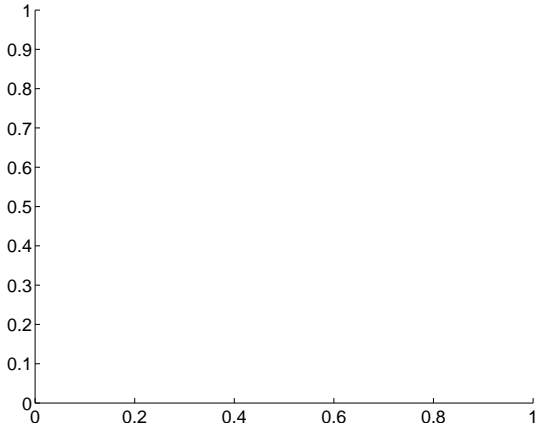
Q15 difference image



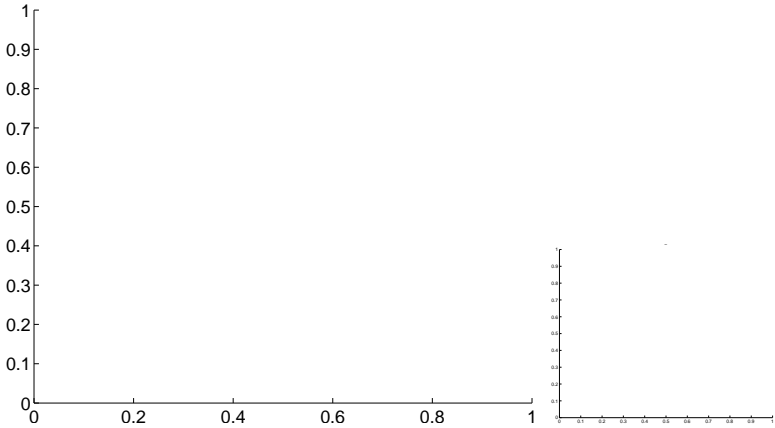
Q15 OOT image



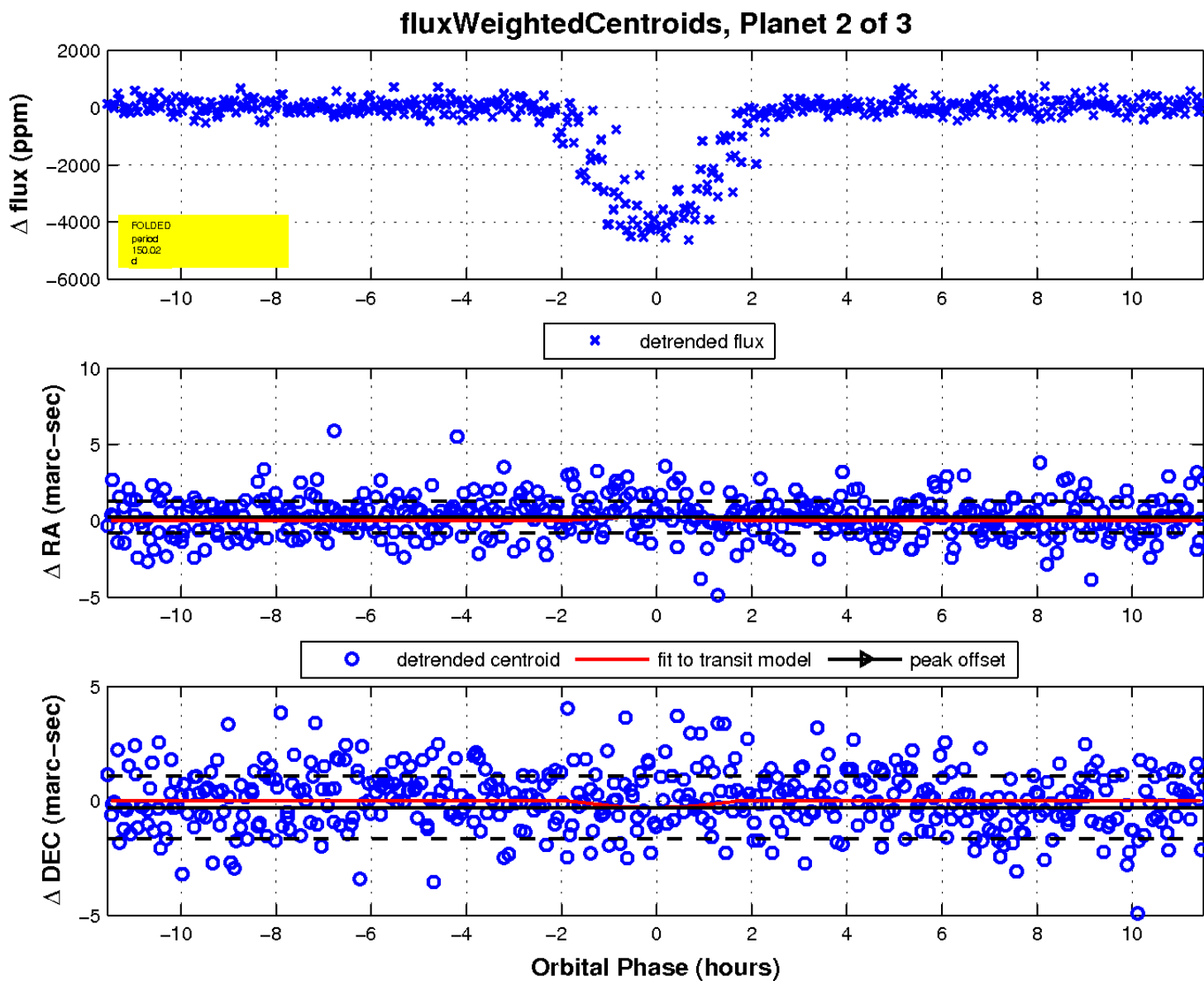
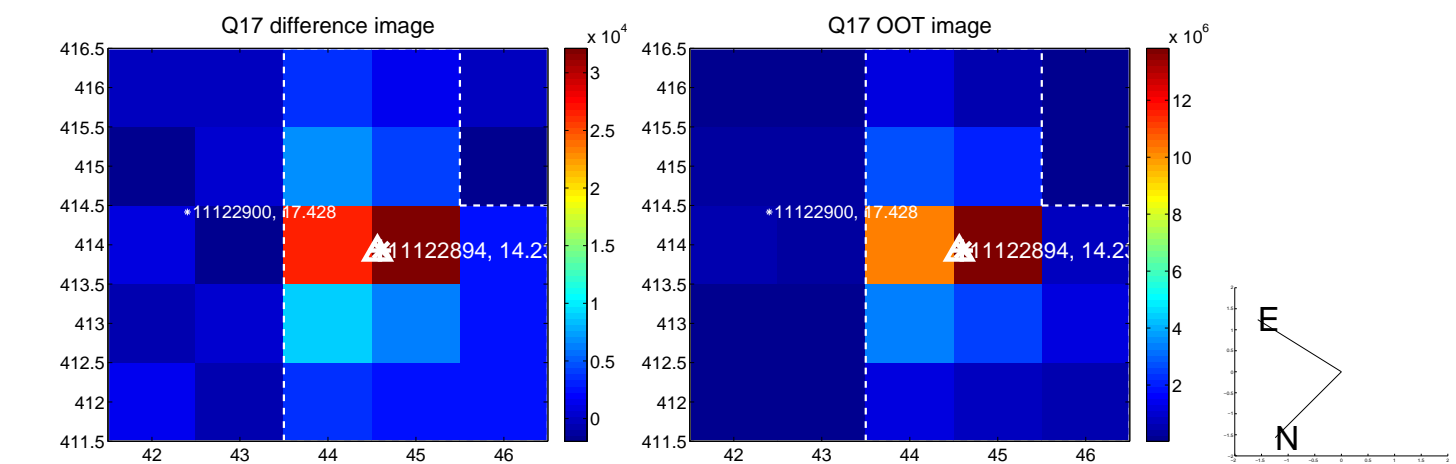
Q16 no difference image



Q16 no OOT image

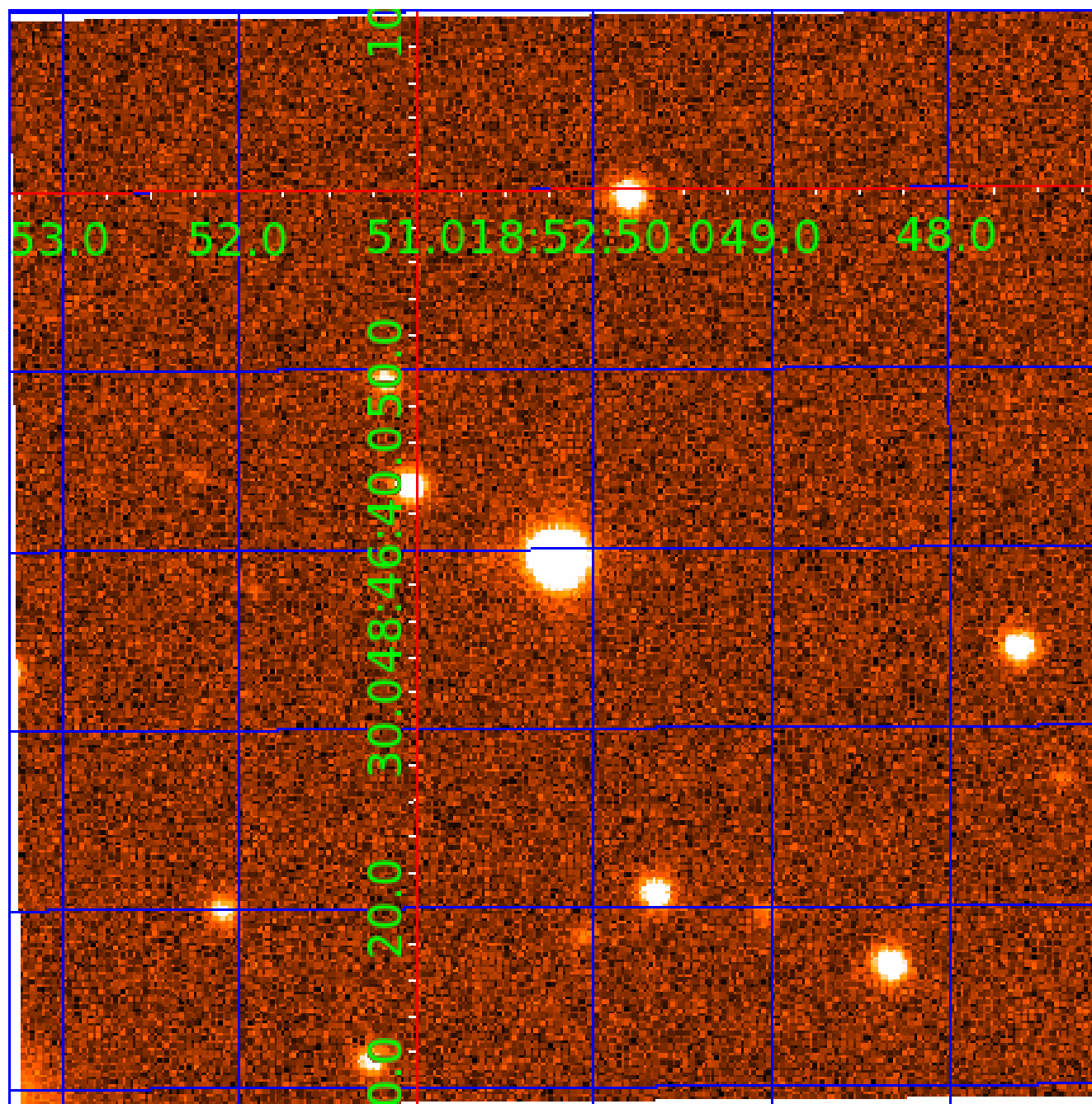


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011122894

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})
011122894-01	OBS	1426.02	74.931013	199.891284	4047.3	4.139	135.4	122.8	0.90	5618	5.67	6.63
011122894-02	OBS	1426.03	150.021338	224.679598	4159.4	3.853	92.4	81.2	0.90	5618	7.12	2.63
011122894-03	OBS	1426.01	38.868830	132.436372	970.5	7.781	55.3	57.5	0.90	5618	3.56	15.91

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011122894-01	OBS	PC	0.91	0	0	0	0	NO_COMMENT
011122894-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011122894-03	OBS	PC	1.00	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.

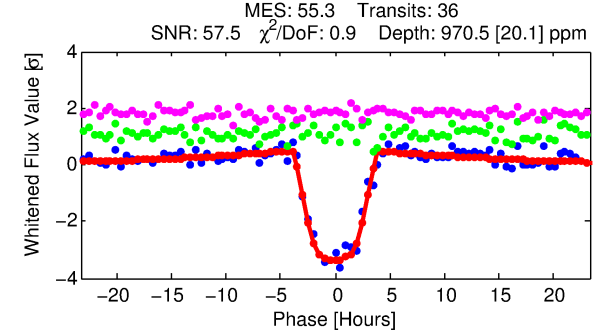
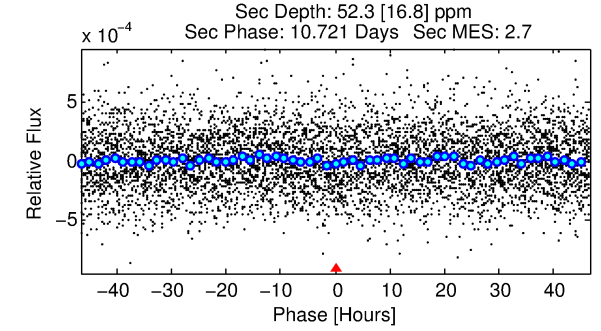
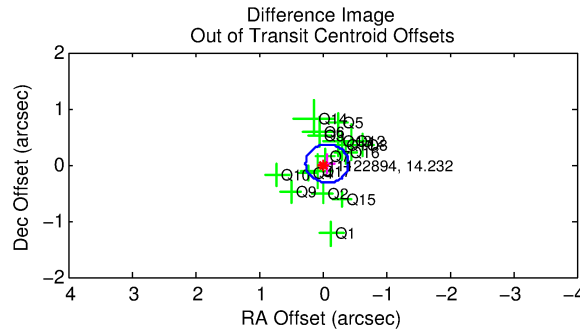
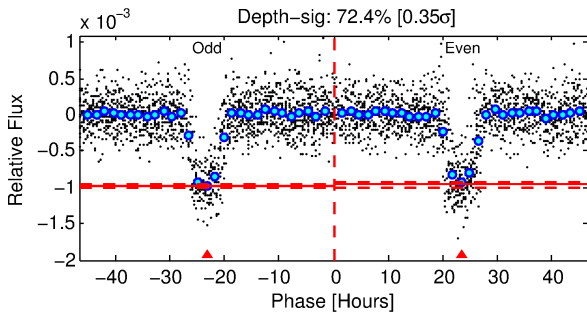
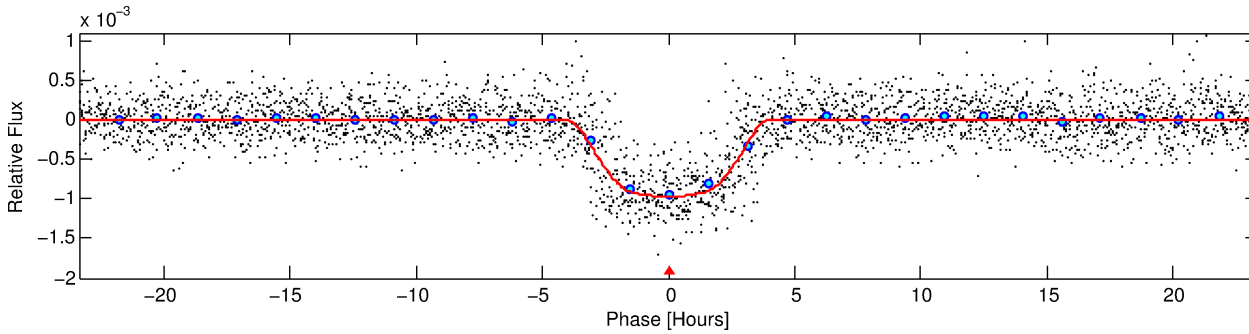
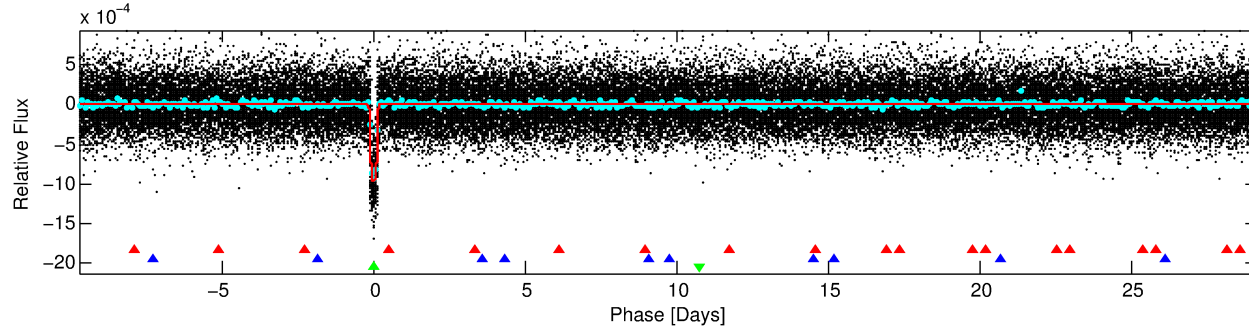
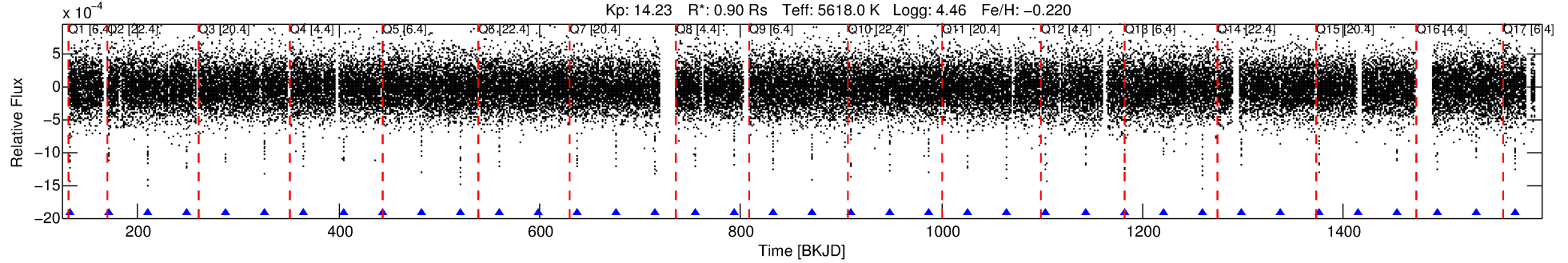
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011122894-03

No Significant Match Found

DV One-Page Summary

KIC: 11122894 Candidate: 3 of 3 Period: 38.869 d
KOI: K01426.01 Name: Kepler-297b Corr: 0.892



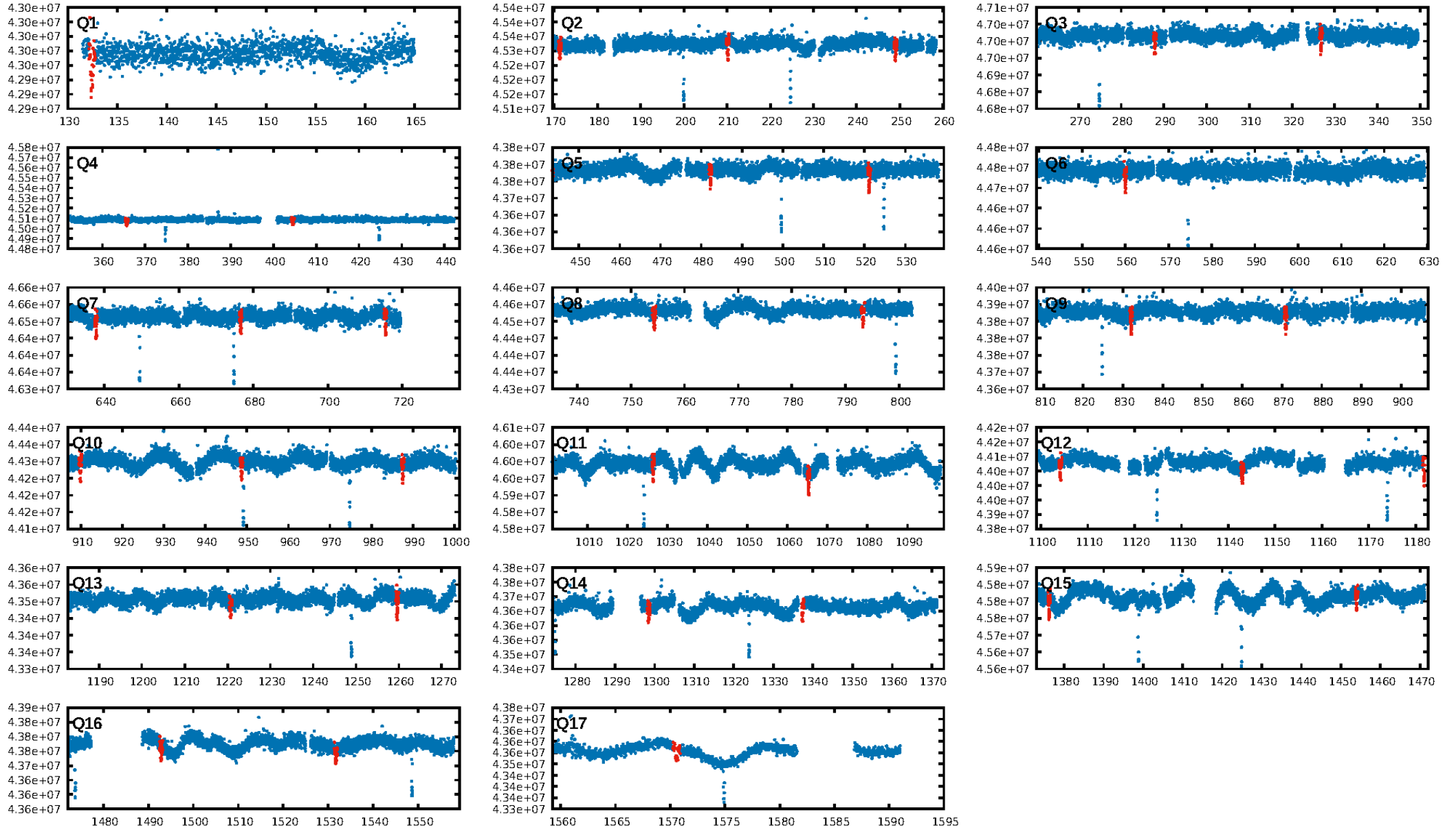
DV Fit Results:

Period = 38.86883 [0.00014] d
Epoch = 132.4364 [0.0029] BKJD
Rp/R* = 0.0363 [0.0006]
a/R* = 16.03 [0.69]
b = 0.95 [0.01]
Seff = 15.91 [2.79]
Teff = 509 [22] K
Rp = 3.56 [0.40] Re
a = 0.2125 [0.0214] AU
Ag = 102.76 [36.82] [2.76 σ]
Teffp = 2507 [208] K [9.55 σ]

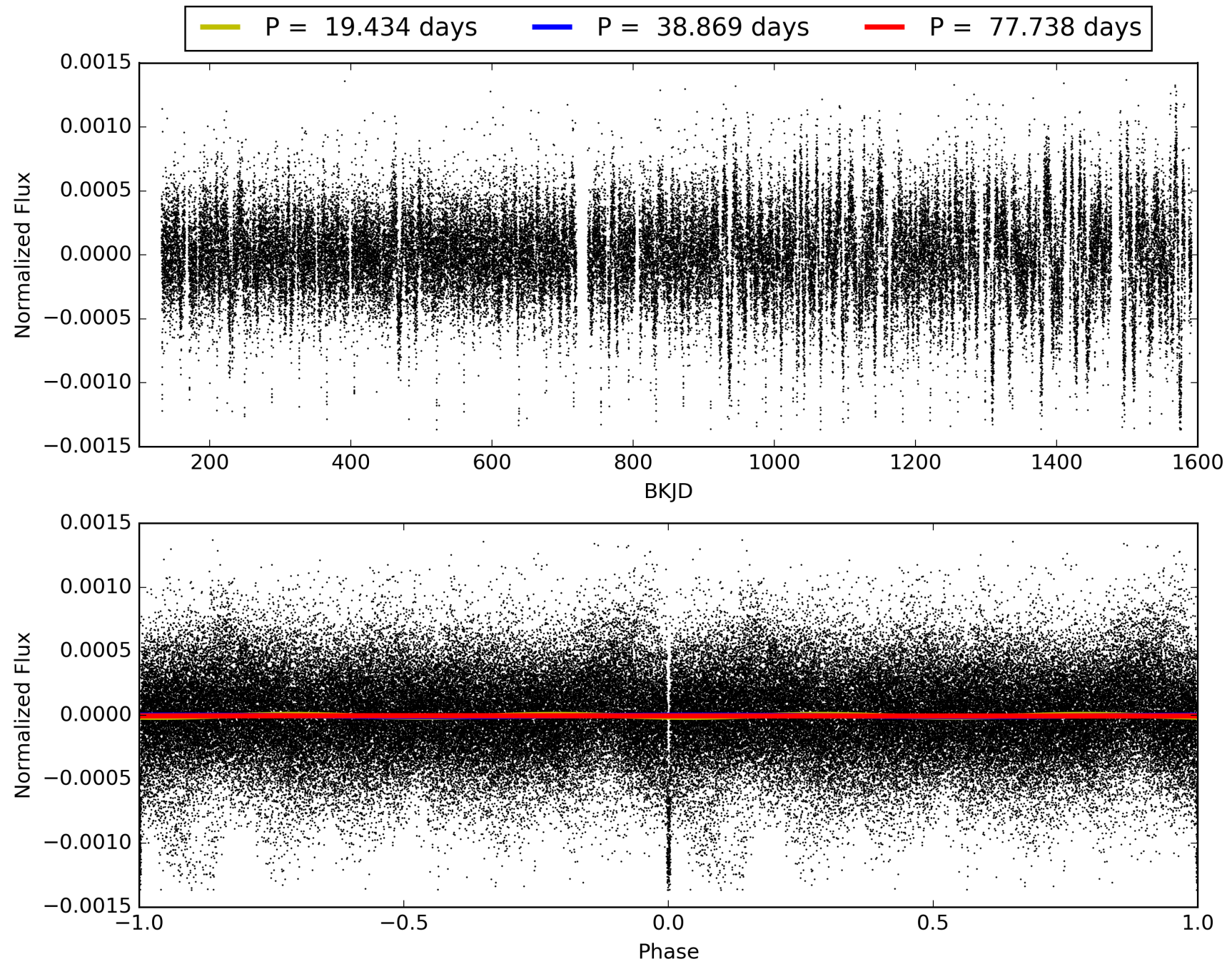
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [98.20 σ]
ModelChiSquare2-sig: 23.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [34/34]
GhostDiagnostic-chr: 4.031
Centroid-sig: 23.5%
Centroid-so: 0.394 arcsec [1.77 σ]
OotOffset-rm: 0.075 arcsec [0.66 σ]
KicOffset-rm: 0.119 arcsec [0.77 σ]
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]

TCE 011122894-03, PDC Light Curves

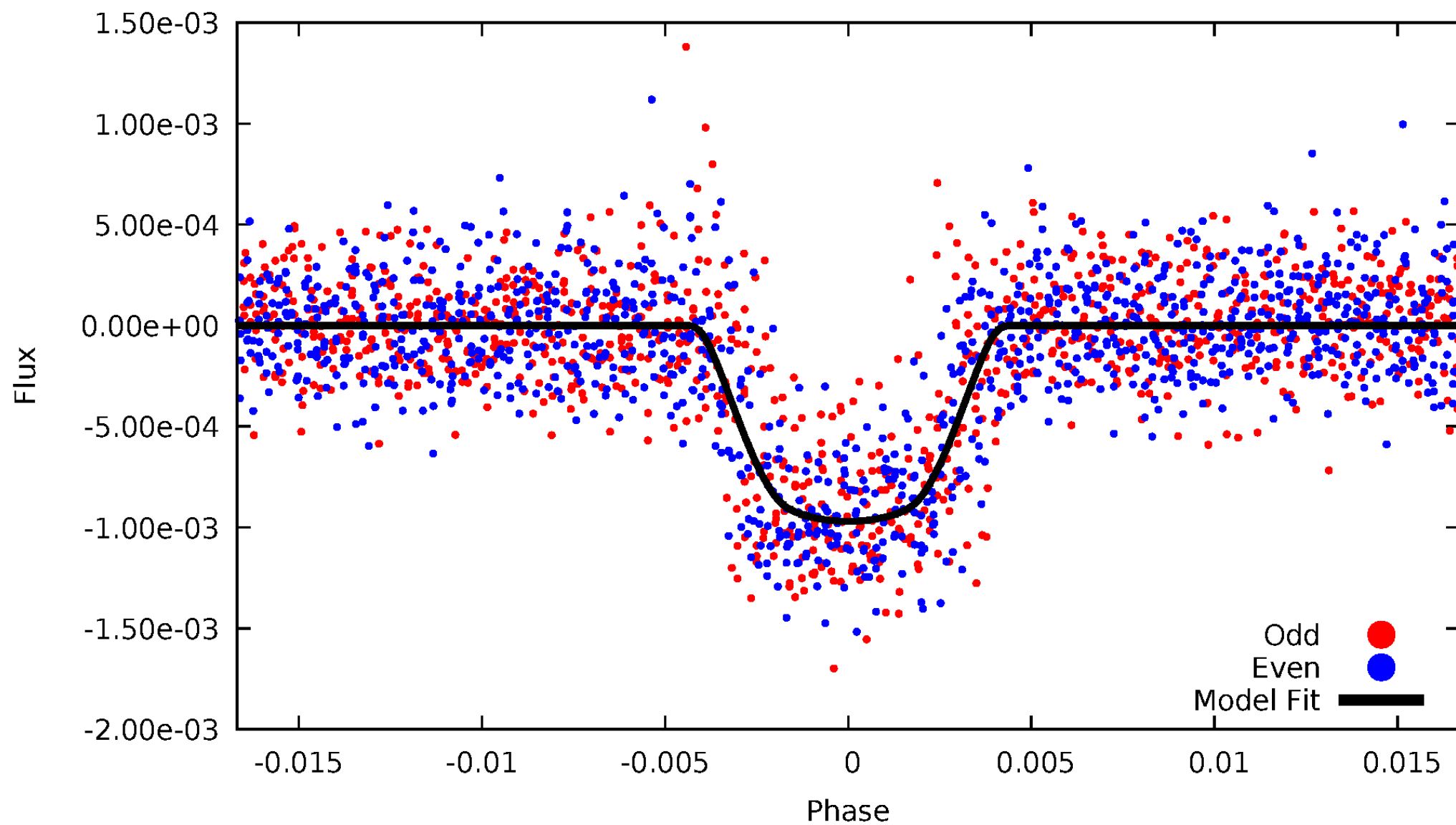


TCE 011122894-03



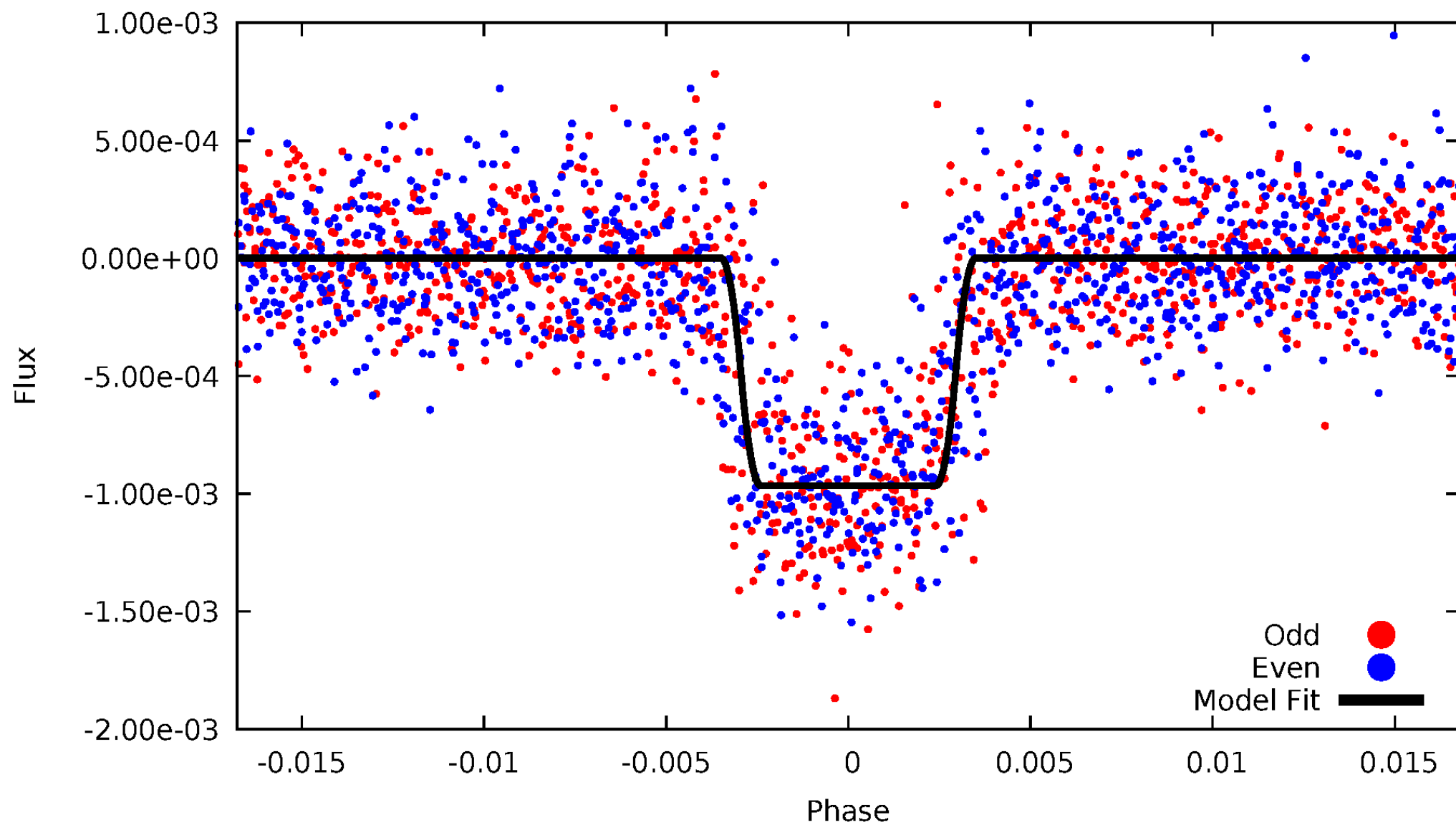
DV Odd/Even

TCE 011122894-03

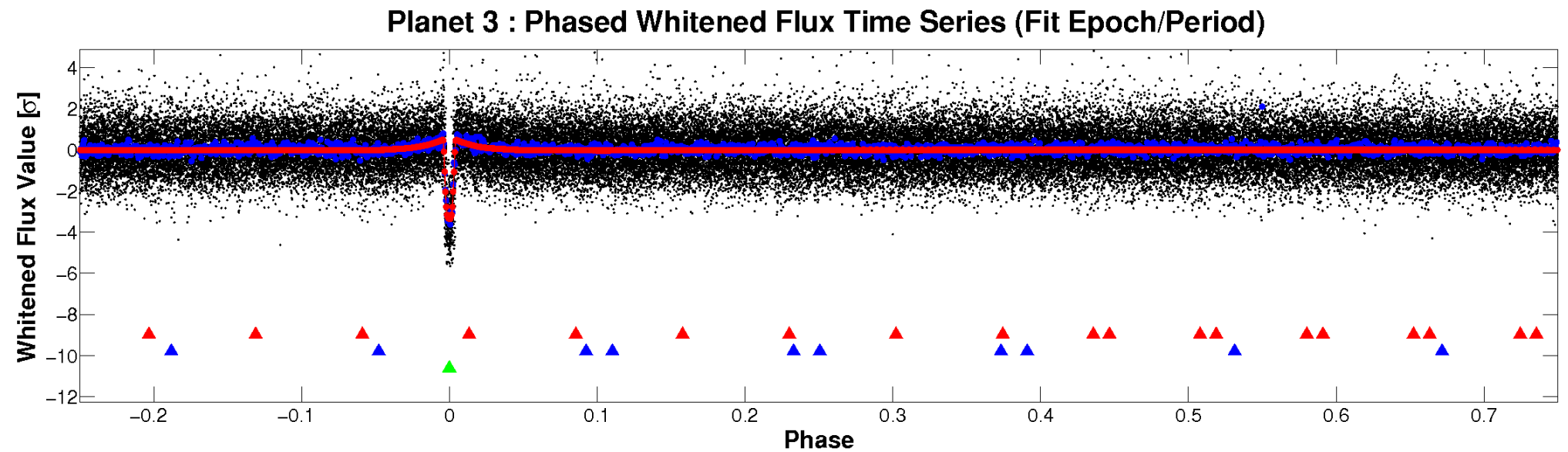
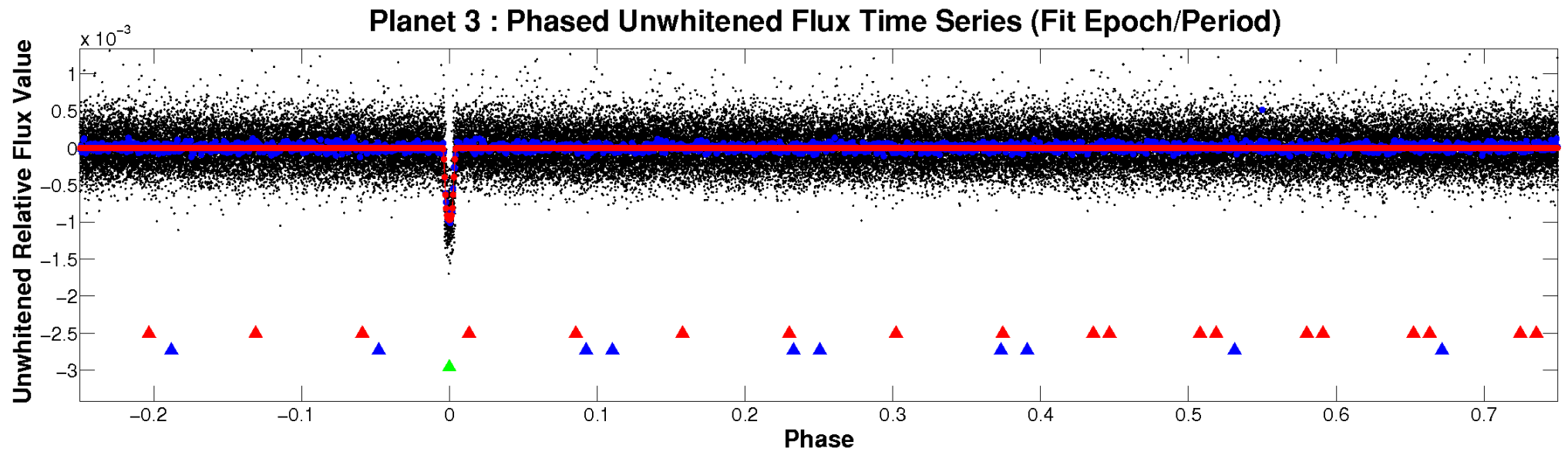


ALT Odd/Even

TCE 011122894-03

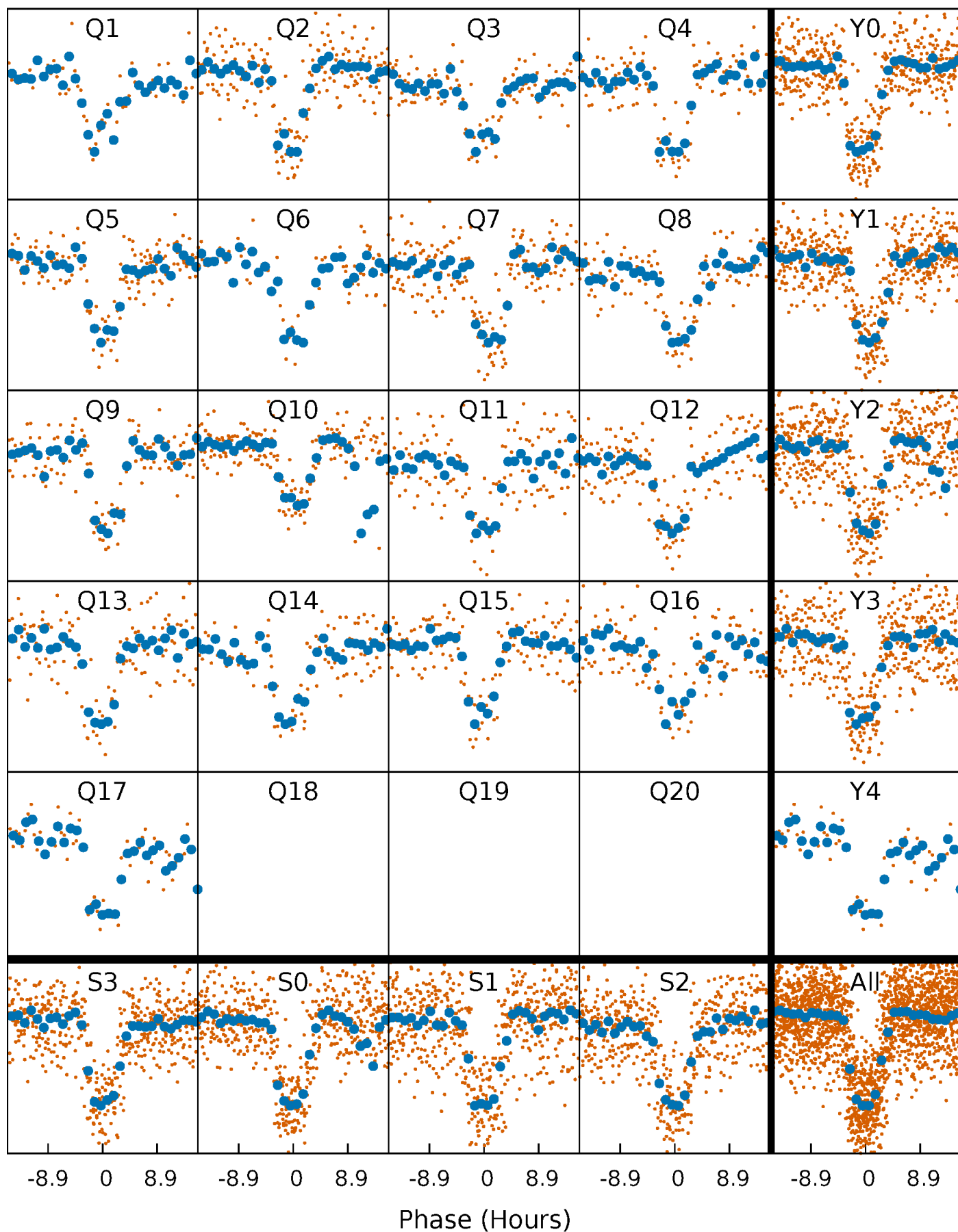


Non-Whitened Vs. Whitened Light Curve



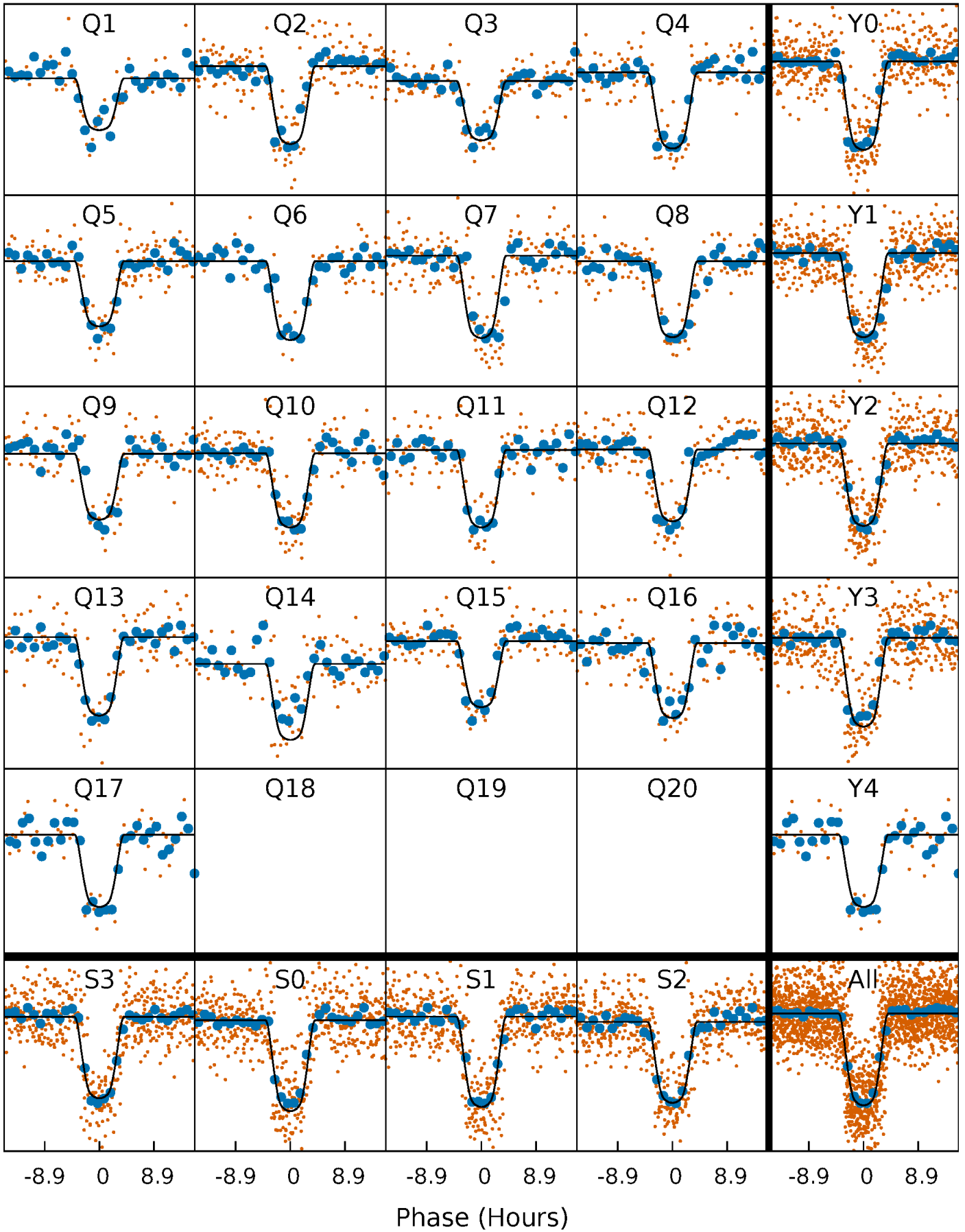
PDC Quarter-Phased Transit Curves

TCE 011122894-03 P= 38.868830 Days $T_0=132.436372$ (BKJD)



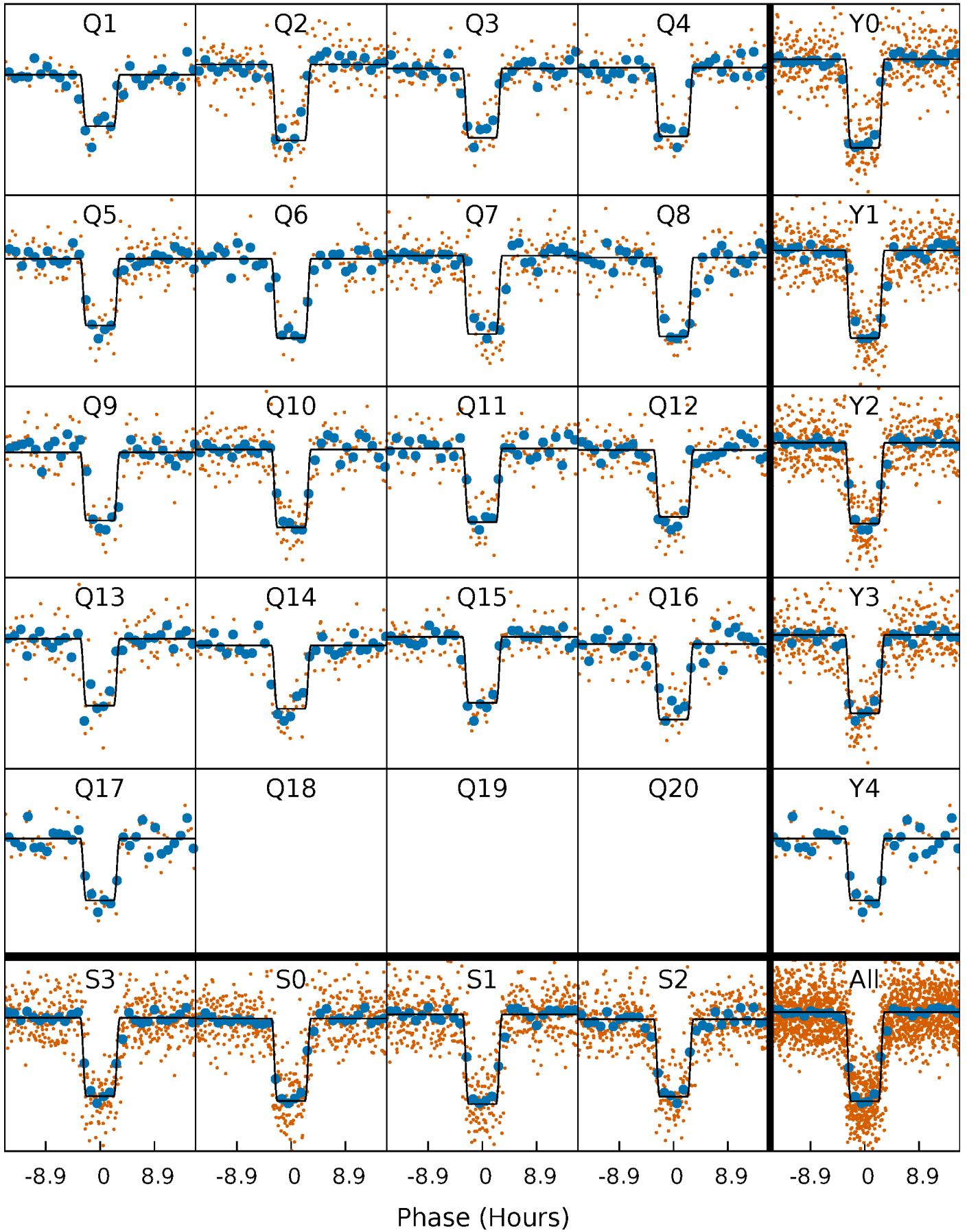
DV Quarter-Phased Transit Curves

TCE 011122894-03 P= 38.868830 Days $T_0=132.436372$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

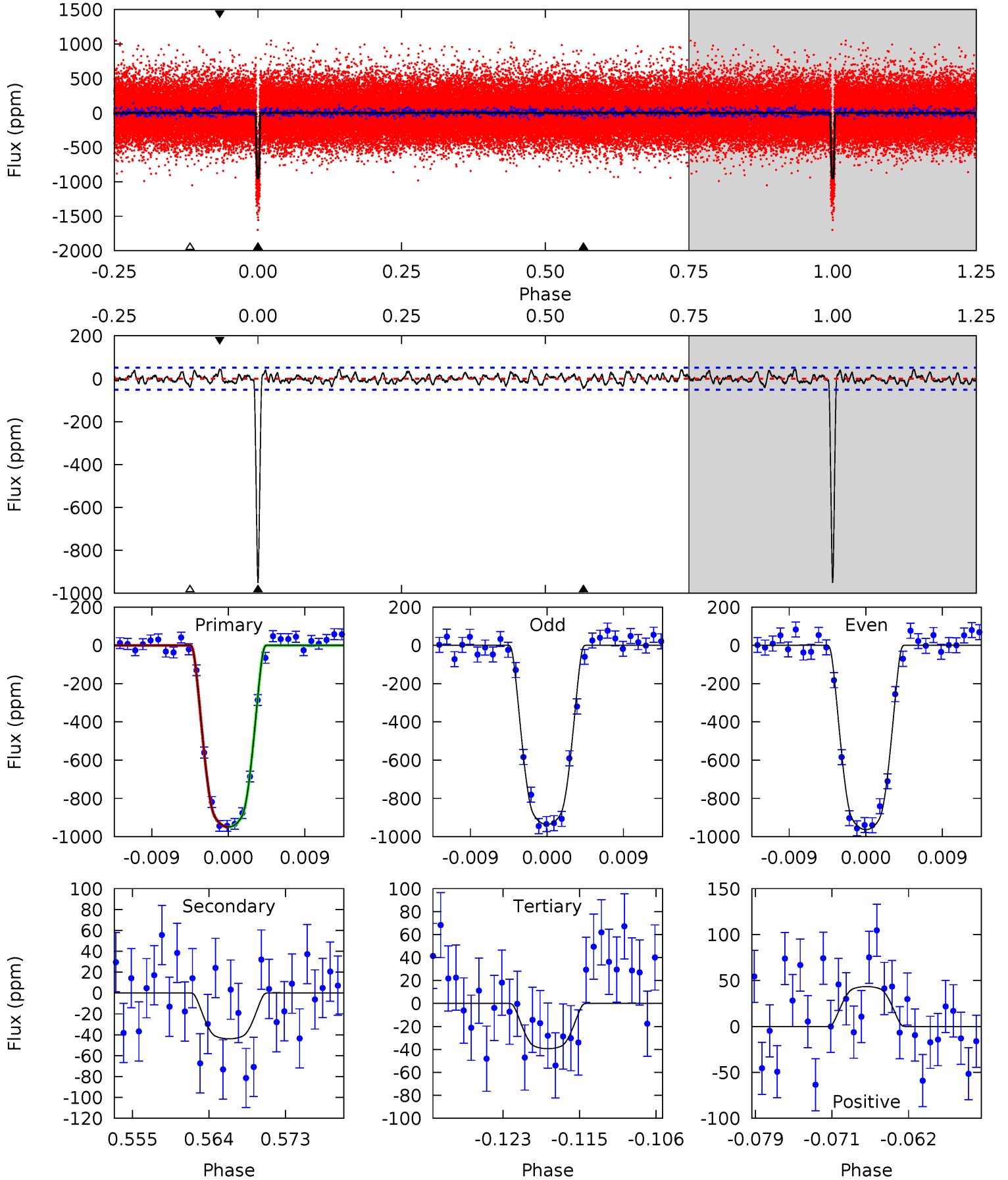
TCE 011122894-03 P= 38.868555 Days $T_0=132.442678$ (BKJD)



DV Model-Shift Uniqueness Test

011122894-03, P = 38.868830 Days, E = 93.567542 Days

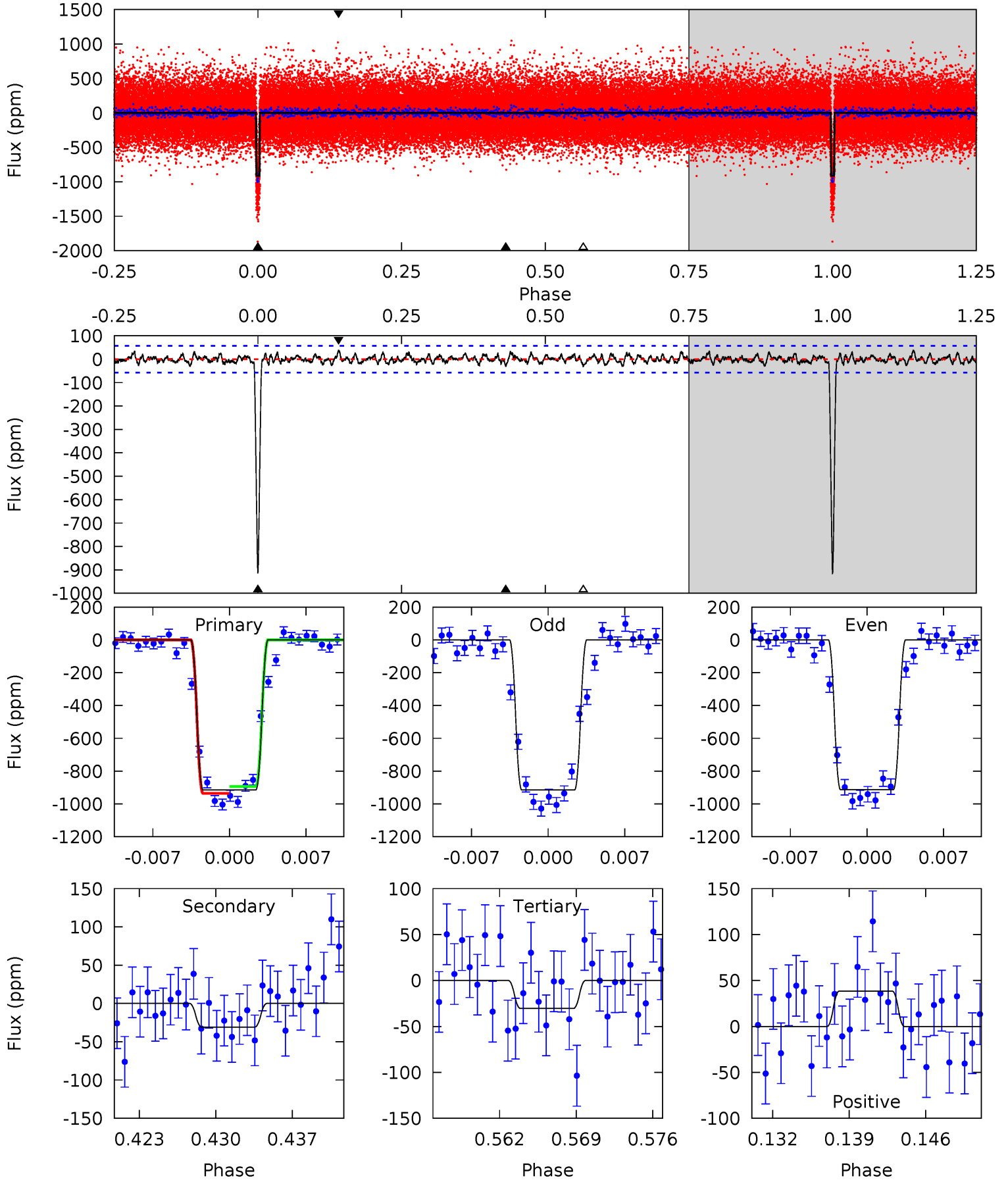
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
93.6	4.33	3.88	4.28	5.05	2.62	1.49	89.7	89.3	0.44	0.05	1.31	0.93	0.04	0.01



Alt Model-Shift Uniqueness Test

011122894-03, P = 38.868555 Days, E = 93.574123 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
81.6	2.76	2.72	3.43	5.10	2.70	1.06	78.8	78.1	0.04	-0.68	0.09	1.02	0.04	1.83



Stellar Parameters For KIC 011122894

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5618^{+112}_{-112}	$4.460^{+0.081}_{-0.090}$	$-0.220^{+0.150}_{-0.150}$	$0.897^{+0.099}_{-0.081}$	$0.846^{+0.059}_{-0.049}$	$1.652^{+0.574}_{-0.426}$
	+2%/-2%	+2%/-2%	+68%/-68%	+11%/-9%	+7%/-6%	+35%/-26%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 011122894-03 / KOI 1426.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-44 ± 10	$3.56^{+0.25}_{-0.22}$	710^{+27}_{-24}	3038^{+98}_{-111}	85^{+23}_{-21}
Alt.	-31 ± 11	$3.05^{+0.20}_{-0.19}$	712^{+26}_{-25}	3036^{+146}_{-210}	85^{+33}_{-35}

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

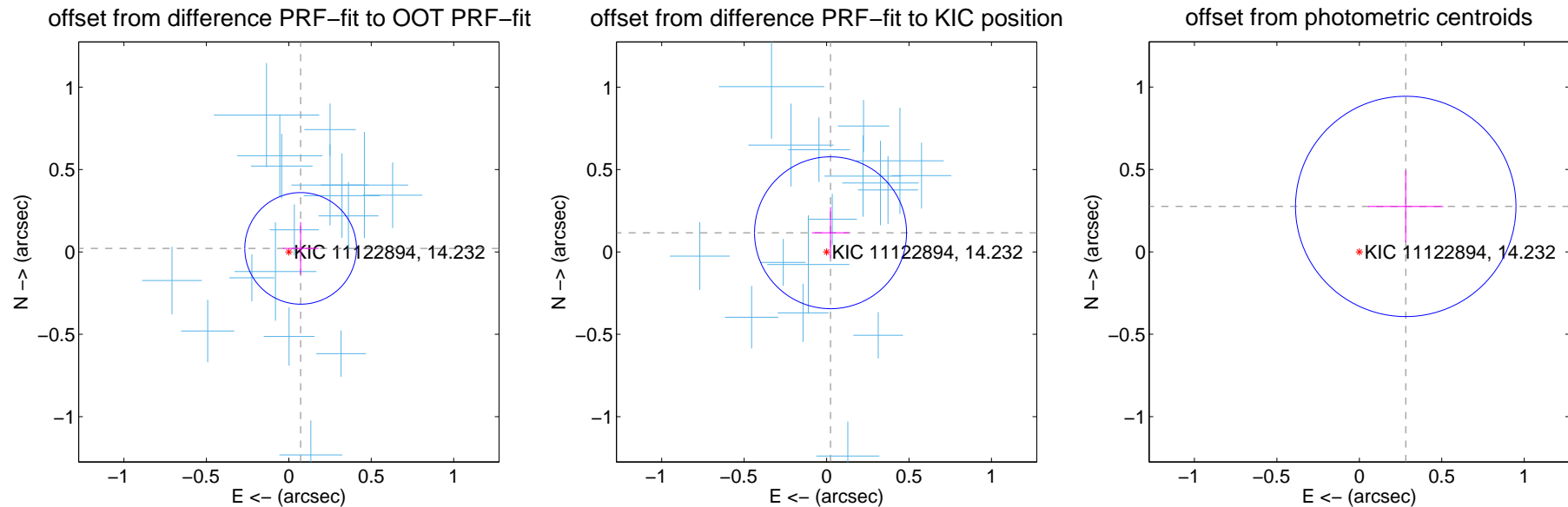
DV Centroid Data

Supplemental centroid analysis for 011122894-03. Kepler magnitude: 14.23. Transit SNR 57.48

There are 17 quarters with good PRF difference image offsets

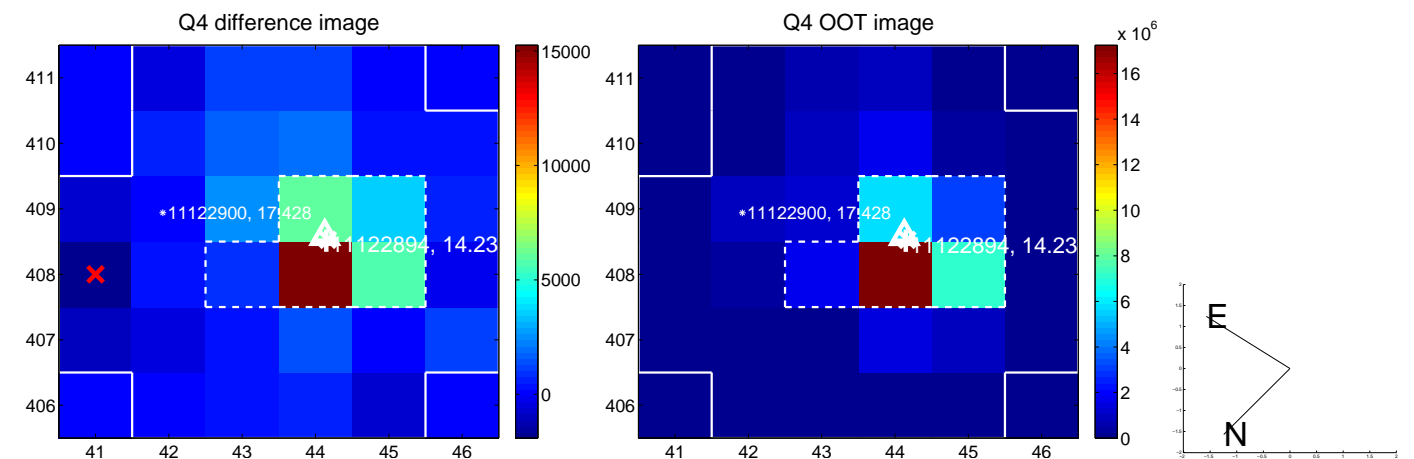
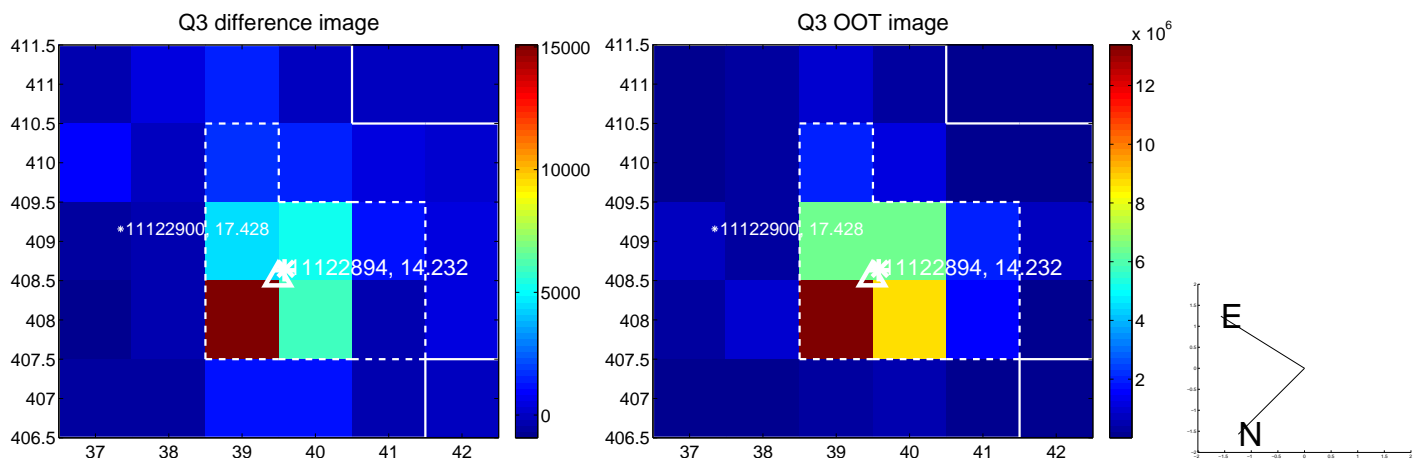
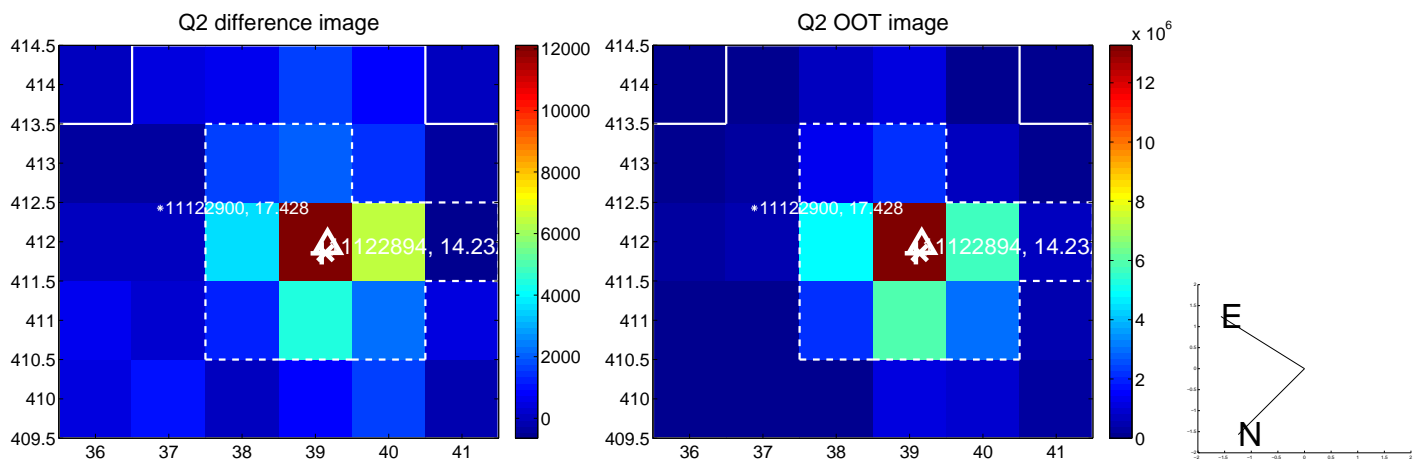
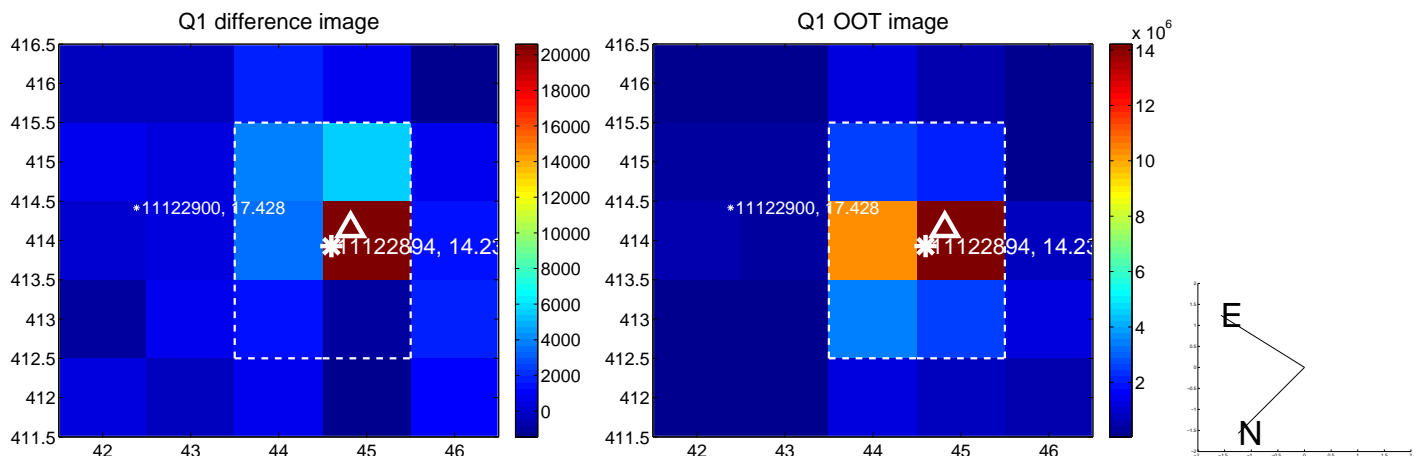
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.075 ± 0.113	0.66	-0.072 ± 0.108	0.021 ± 0.159
PRF-fit source offset from KIC position	0.119 ± 0.154	0.77	-0.024 ± 0.112	0.116 ± 0.155
photometric centroid source offset	0.39 ± 0.22	1.77	-0.28 ± 0.23	0.28 ± 0.22

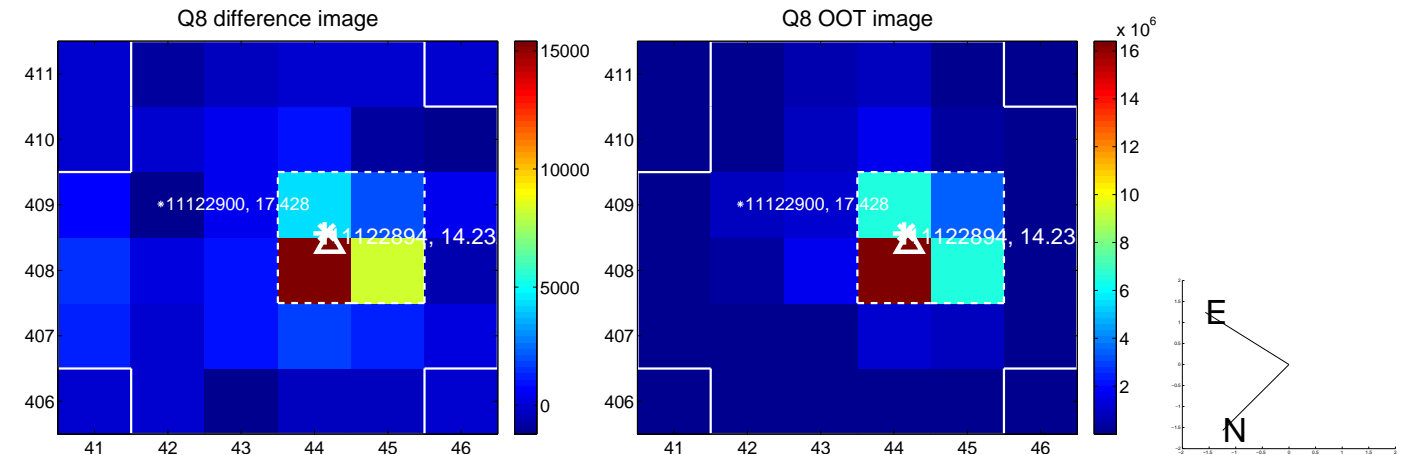
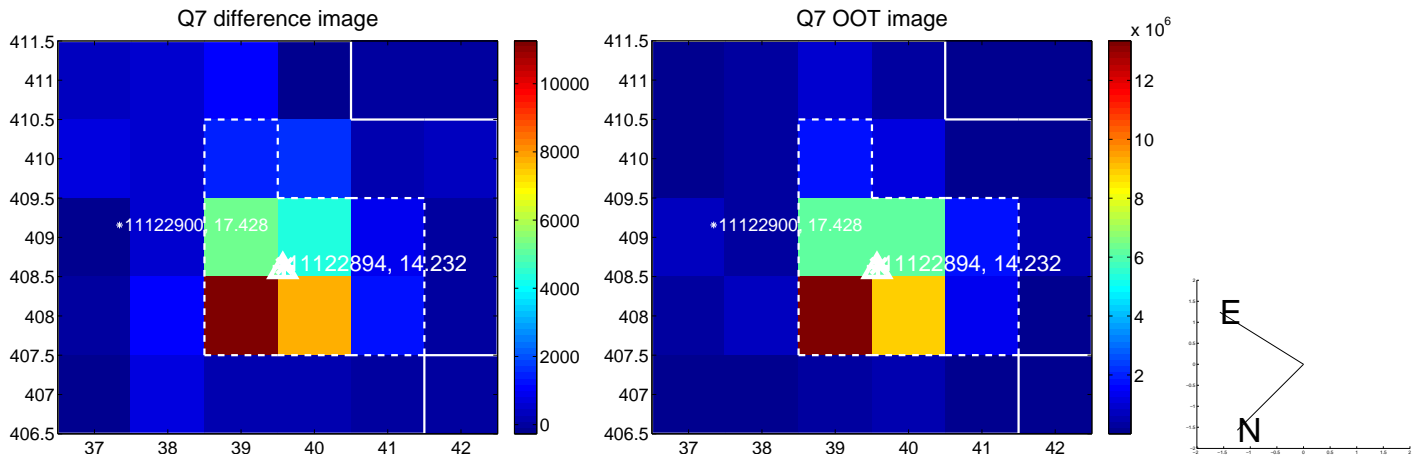
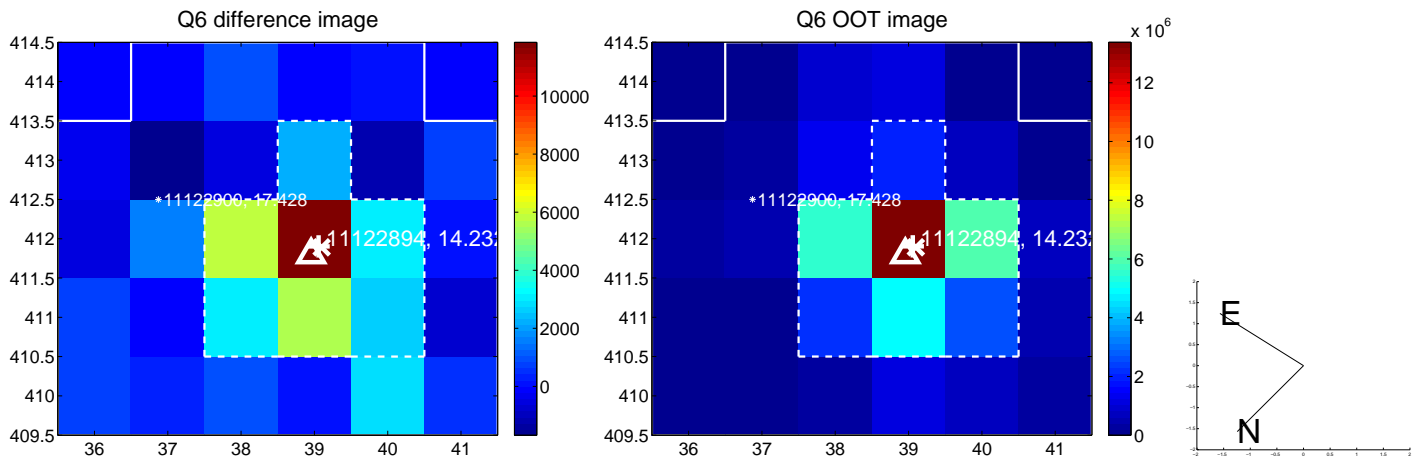
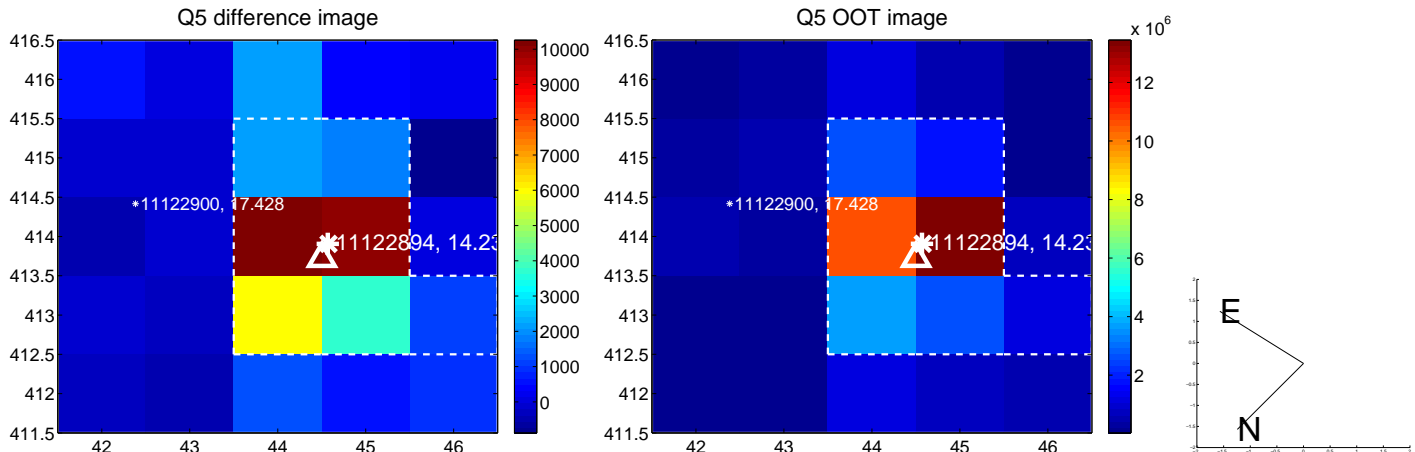


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

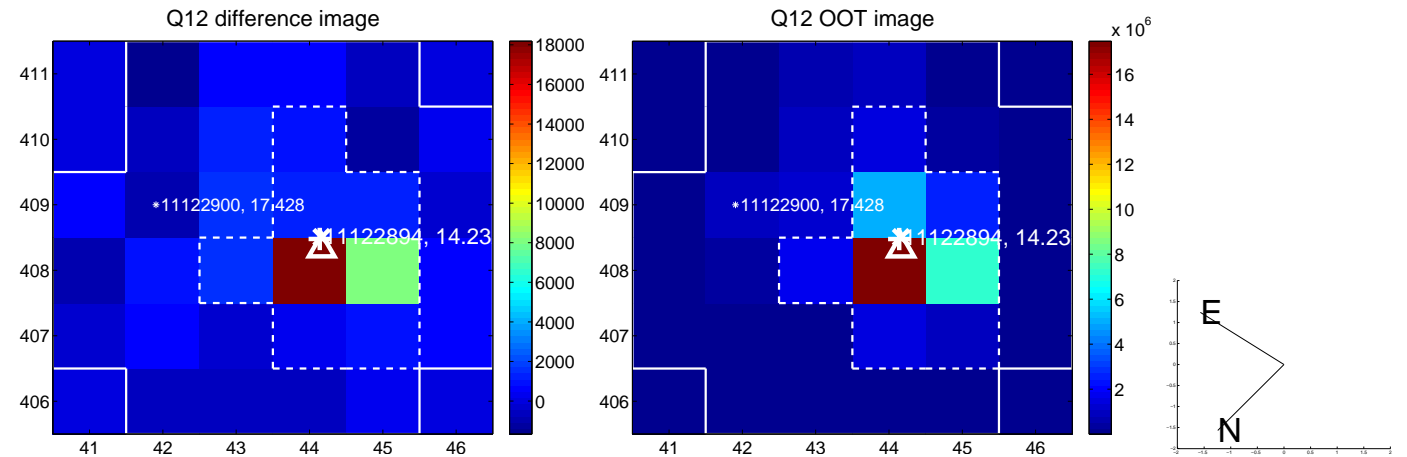
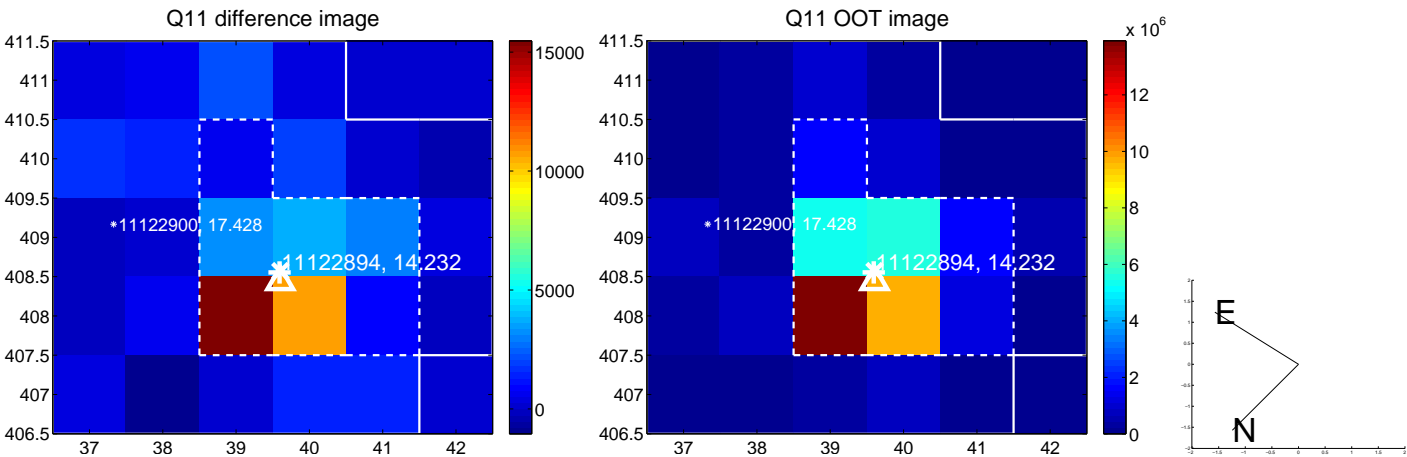
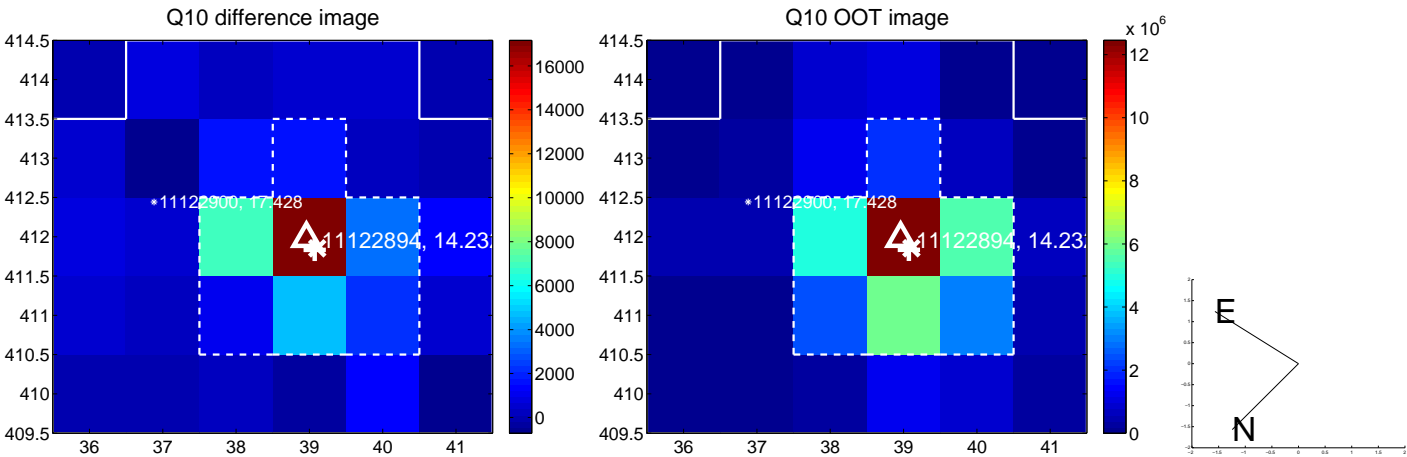
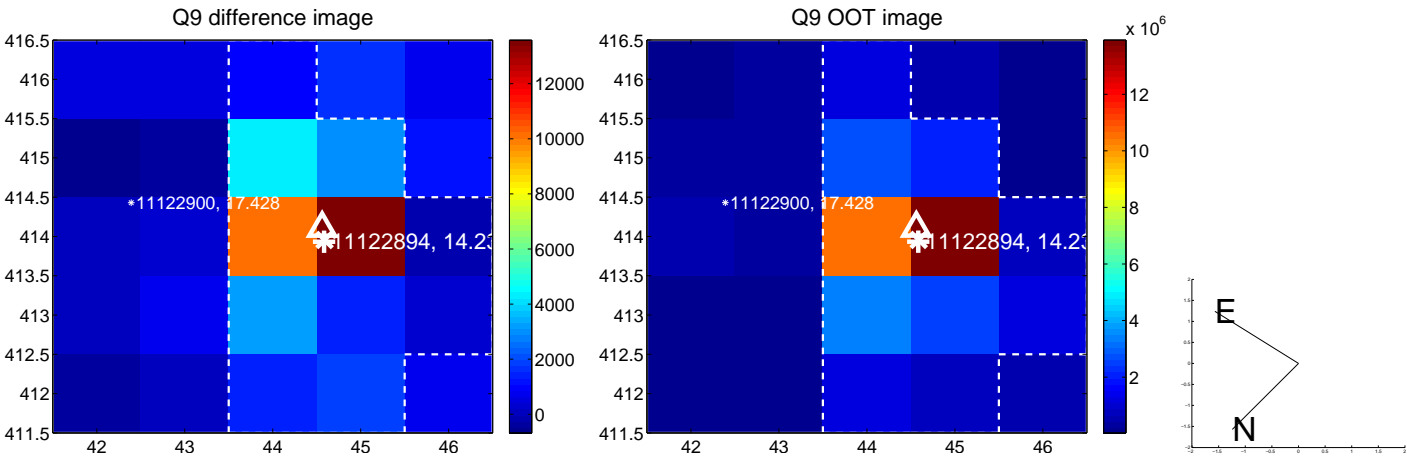
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



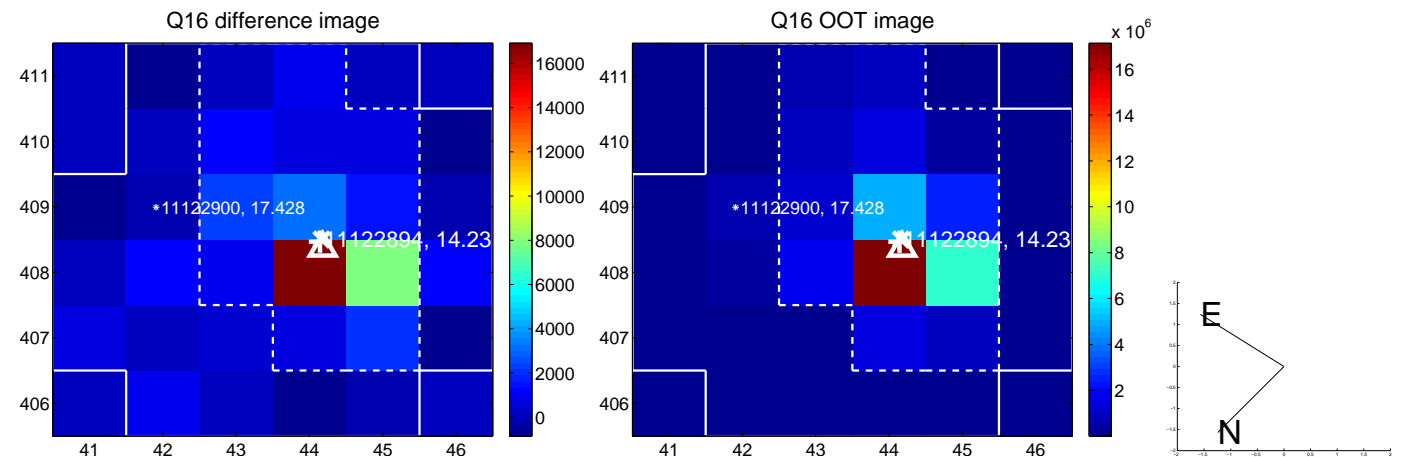
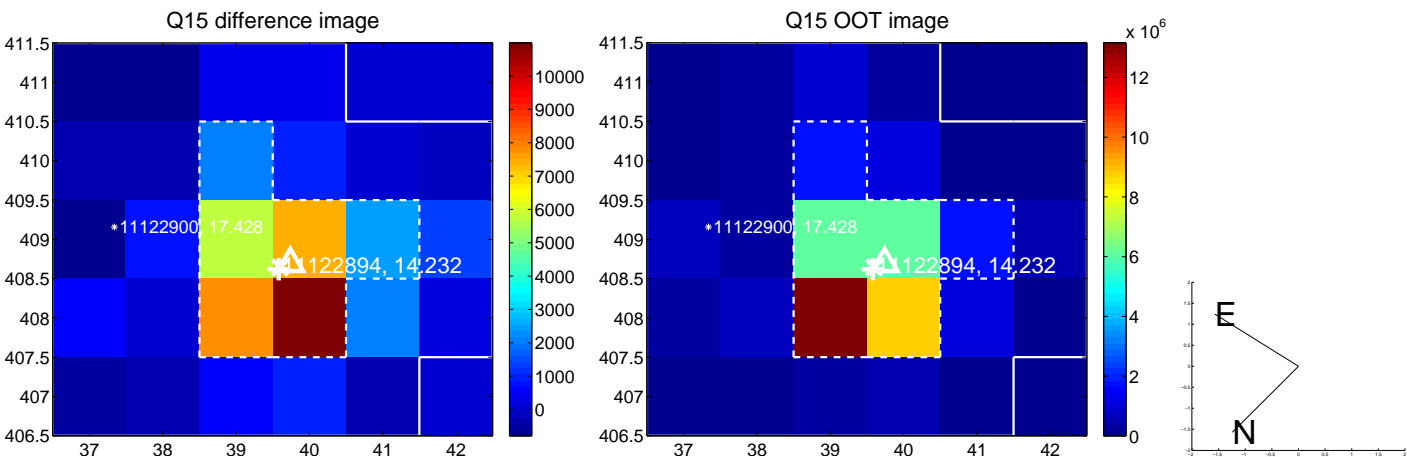
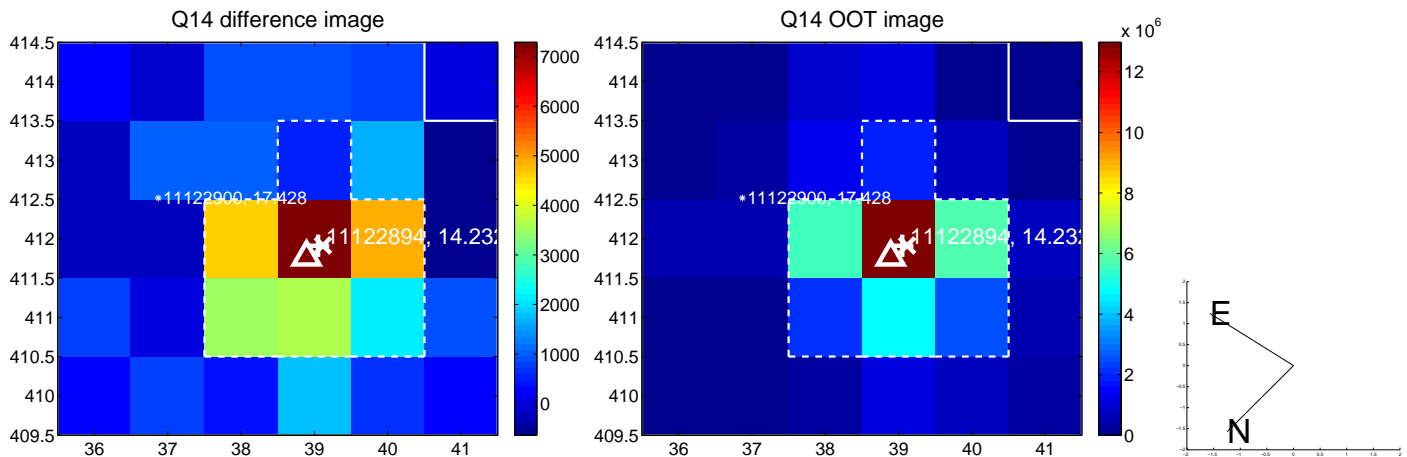
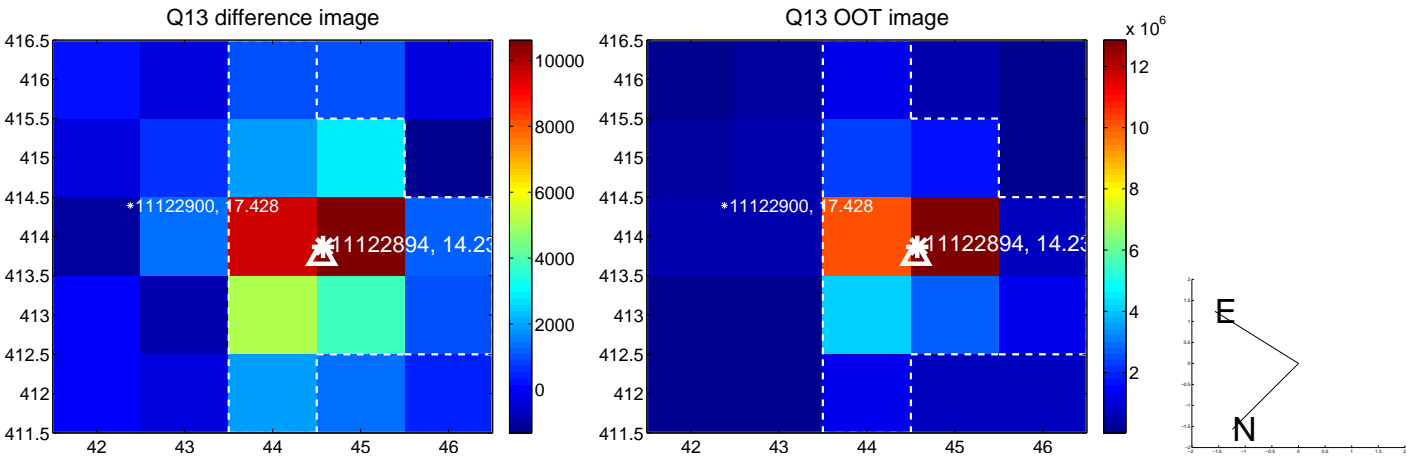
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



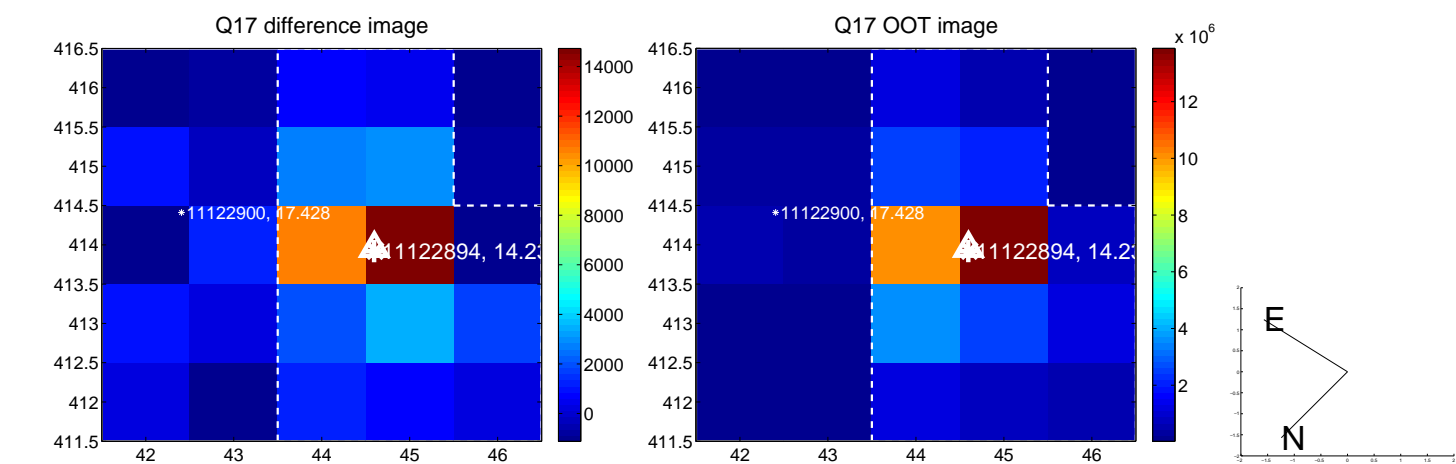
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



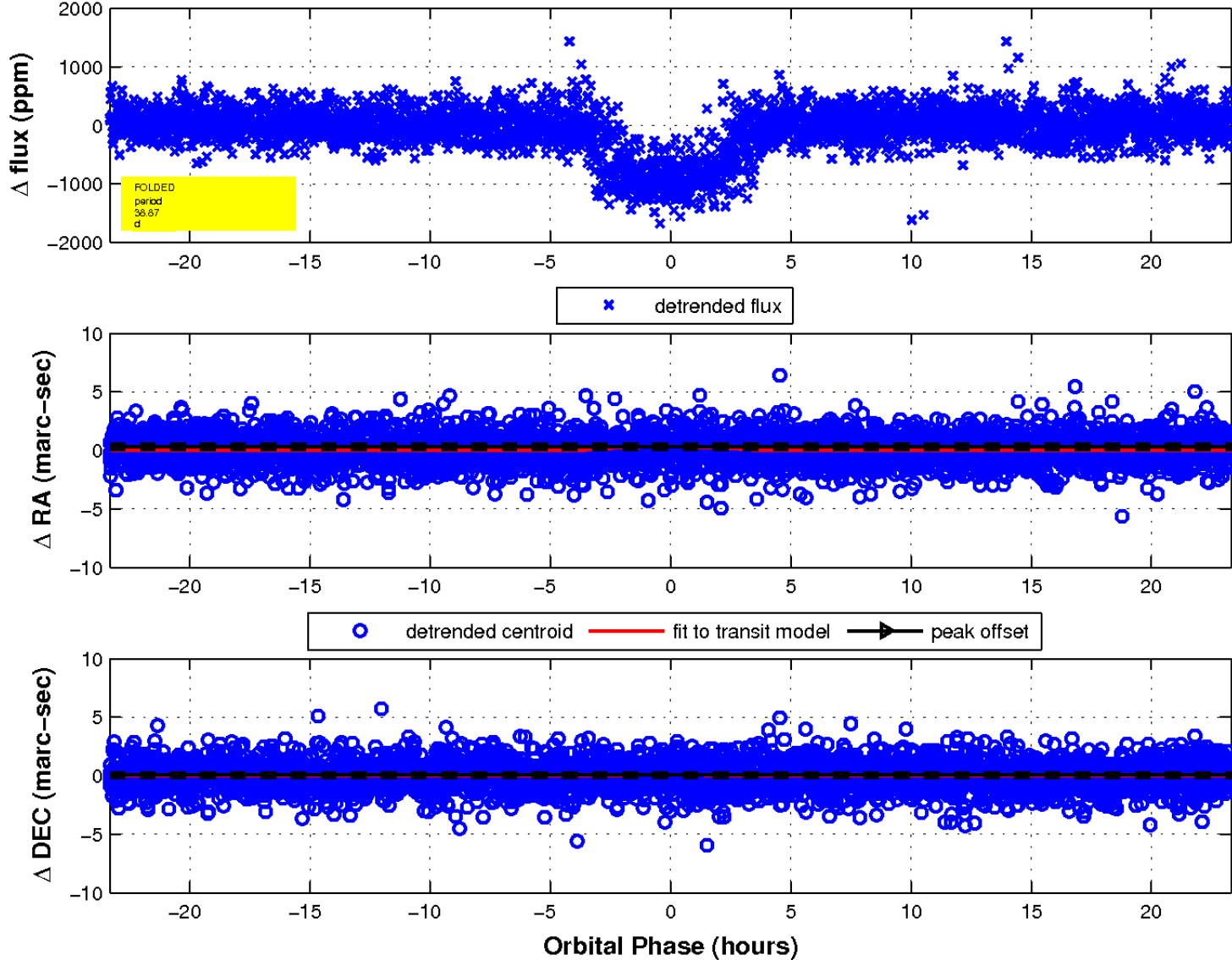
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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UKIRT Image

Declination

