

KIC 011014932

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})
011014932-01	OBS	1432.01	6.885955	131.521025	412.6	3.877	29.0	31.4	1.00	5616	2.55	189.83
011014932-02	OBS	1432.02	15.054898	144.580129	242.0	4.772	14.5	14.1	1.00	5616	1.76	66.90
011014932-03	OBS	1432.03	2.927214	133.826616	156.6	2.651	14.1	15.5	1.00	5616	1.46	593.89
011014932-04	OBS	1432.04	38.285426	143.307991	325.2	5.897	11.1	12.1	1.00	5616	2.02	19.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011014932-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-03	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-04	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.

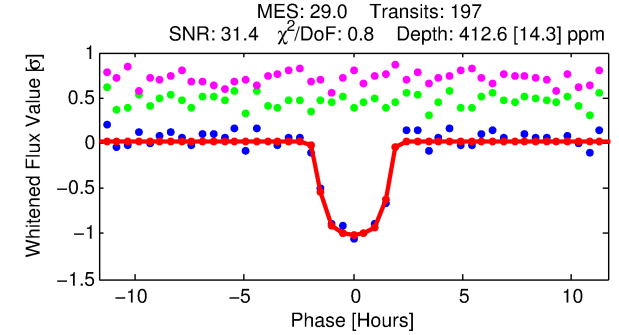
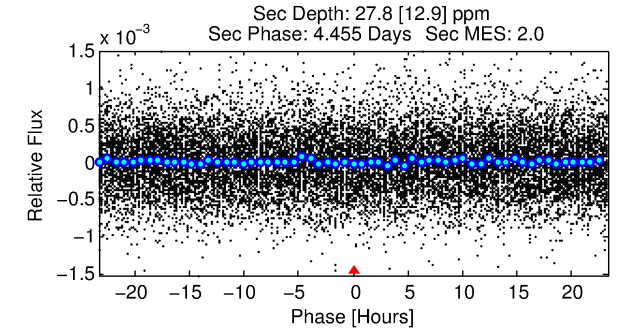
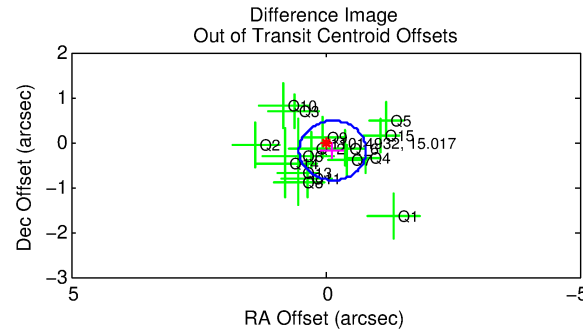
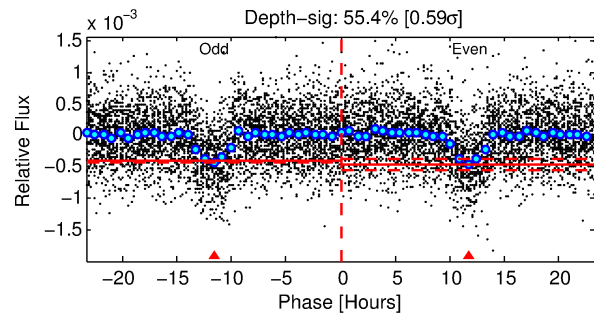
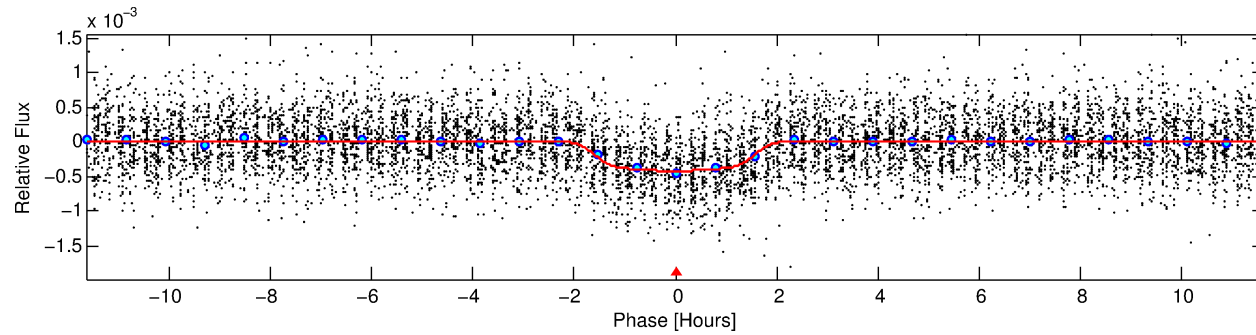
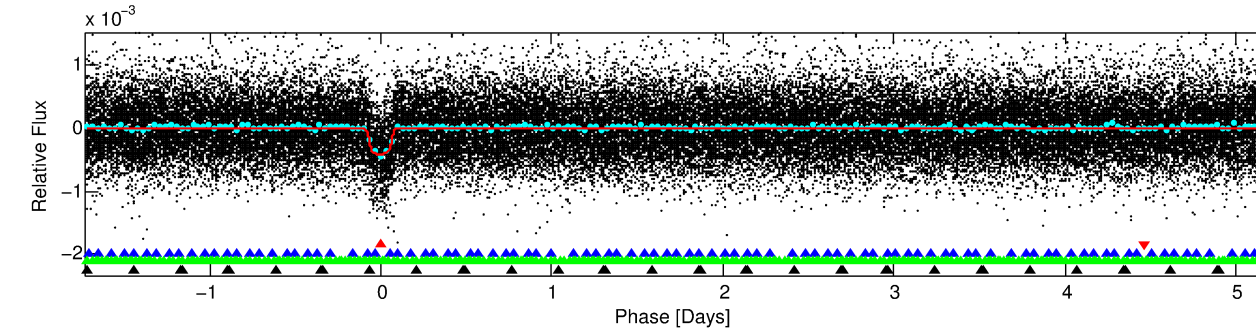
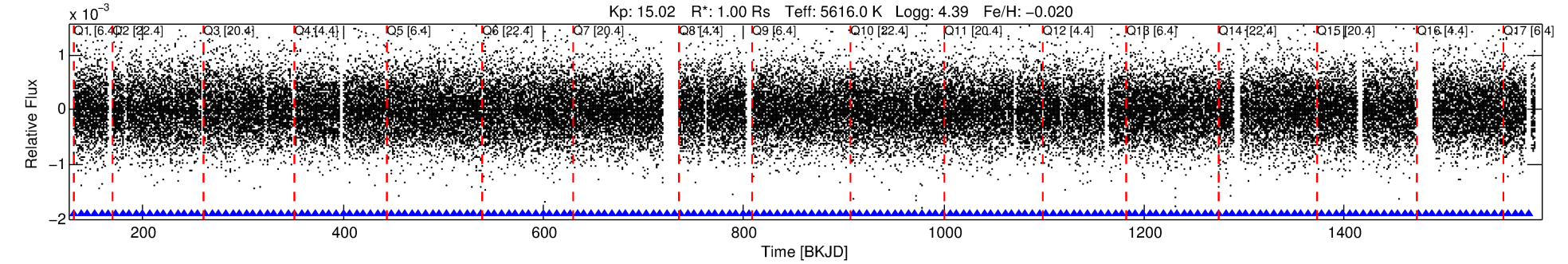
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011014932-01

No Significant Match Found

DV One-Page Summary

KIC: 11014932 Candidate: 1 of 4 Period: 6.886 d
KOI: K01432.01 Name: Kepler-299c Corr: 0.960



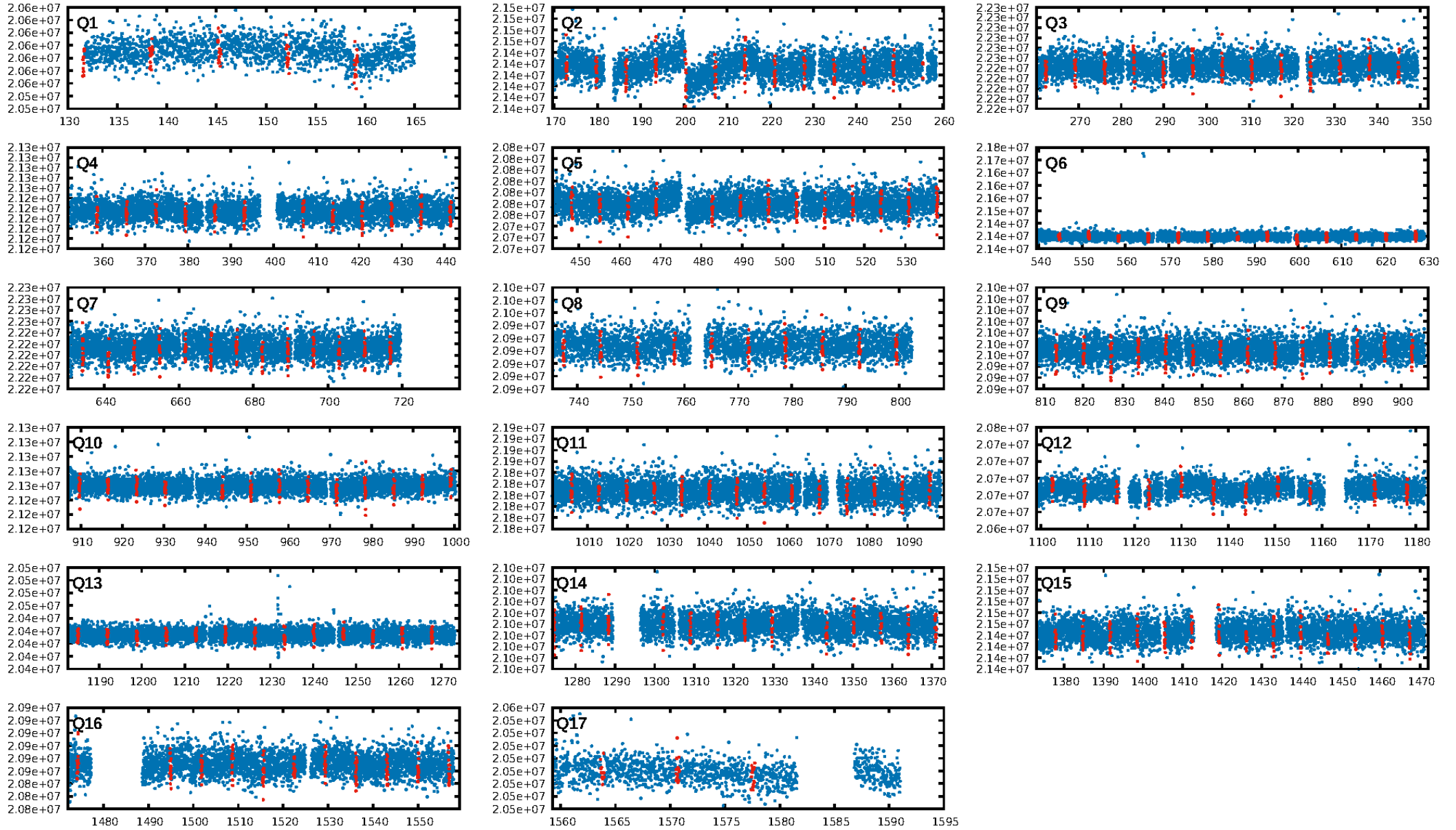
DV Fit Results:

Period = 6.88595 [0.00002] d
Epoch = 131.5210 [0.0026] BKJD
Rp/R* = 0.0234 [0.0011]
a/R* = 5.59 [1.08]
b = 0.94 [0.03]
Seff = 189.83 [38.03]
Teff = 946 [47] K
Rp = 2.55 [0.38] Re
a = 0.0685 [0.0085] AU
Ag = 11.02 [5.61] [1.79σ]
Teffp = 2667 [319] K [5.33σ]

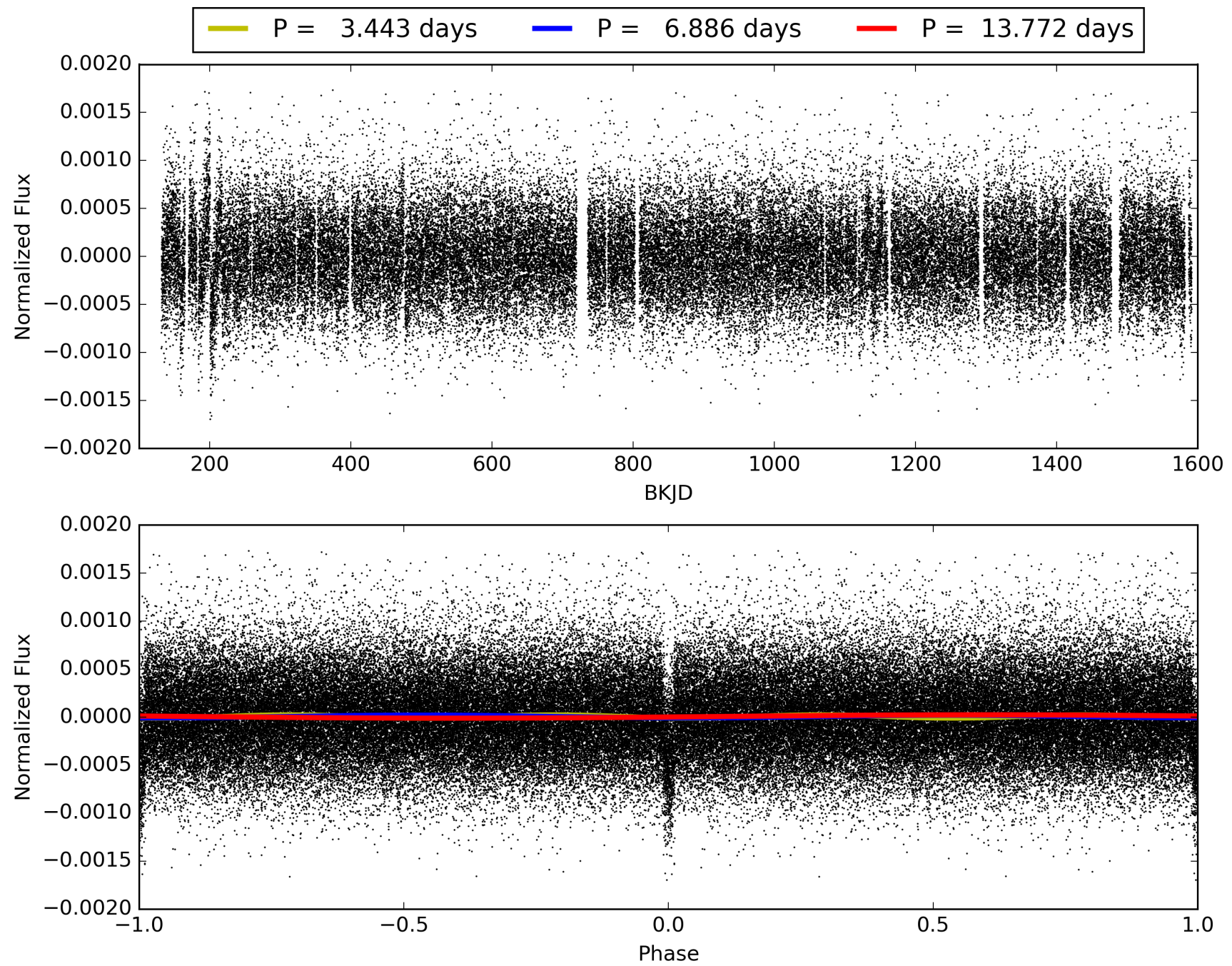
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [20.23σ]
LongPeriod-sig: 100.0% [31.89σ]
ModelChiSquare2-sig: 100.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.34e-177
RollingBand-fgt: 1.00 [189/189]
GhostDiagnostic-chr: 3.708
Centroid-sig: 16.5%
Centroid-so: 0.876 arcsec [1.83σ]
OotOffset-rm: 0.232 arcsec [1.06σ]
KicOffset-rm: 0.024 arcsec [0.10σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 1.00 [16/16]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 011014932-01, PDC Light Curves

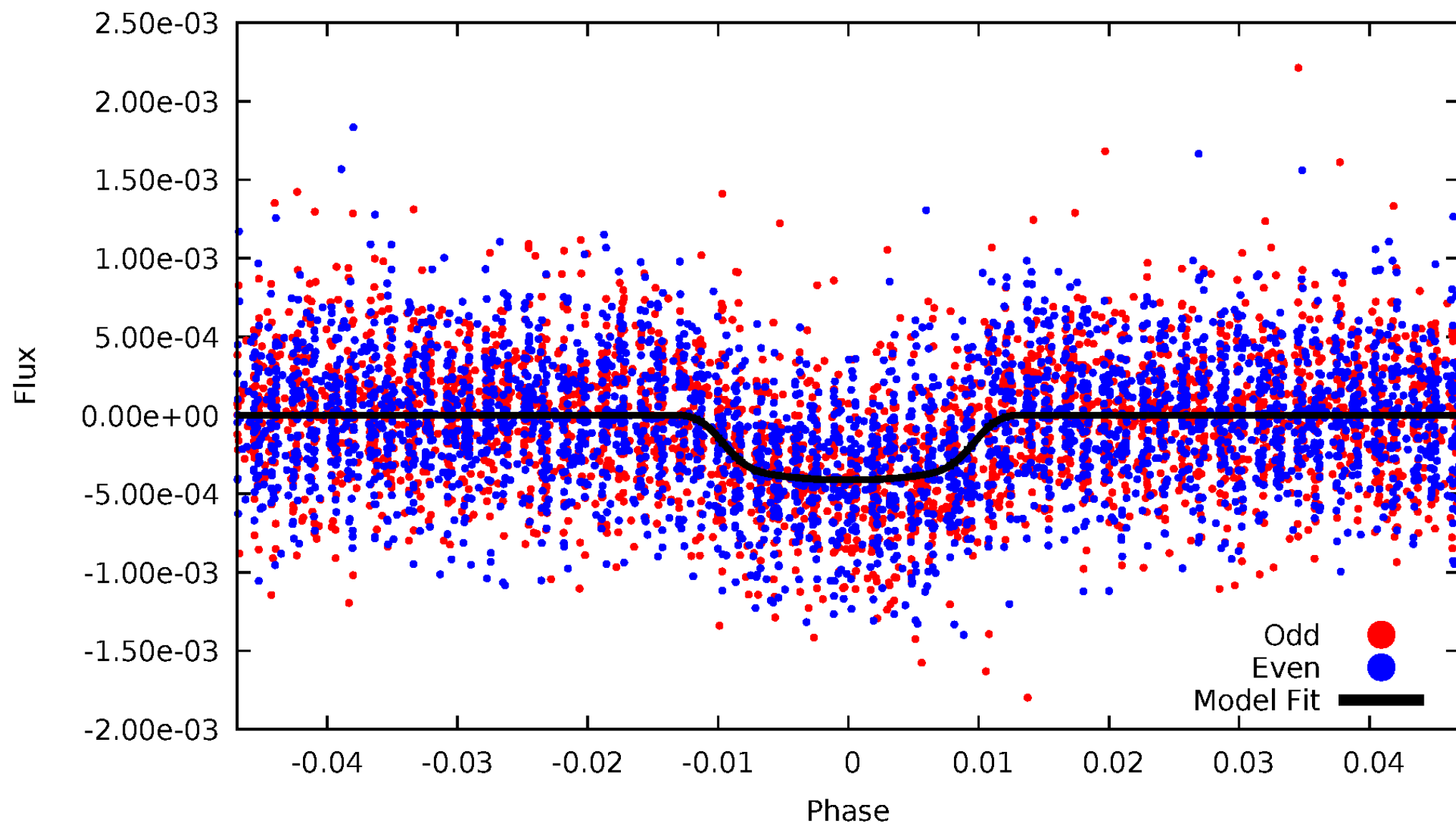


TCE 011014932-01



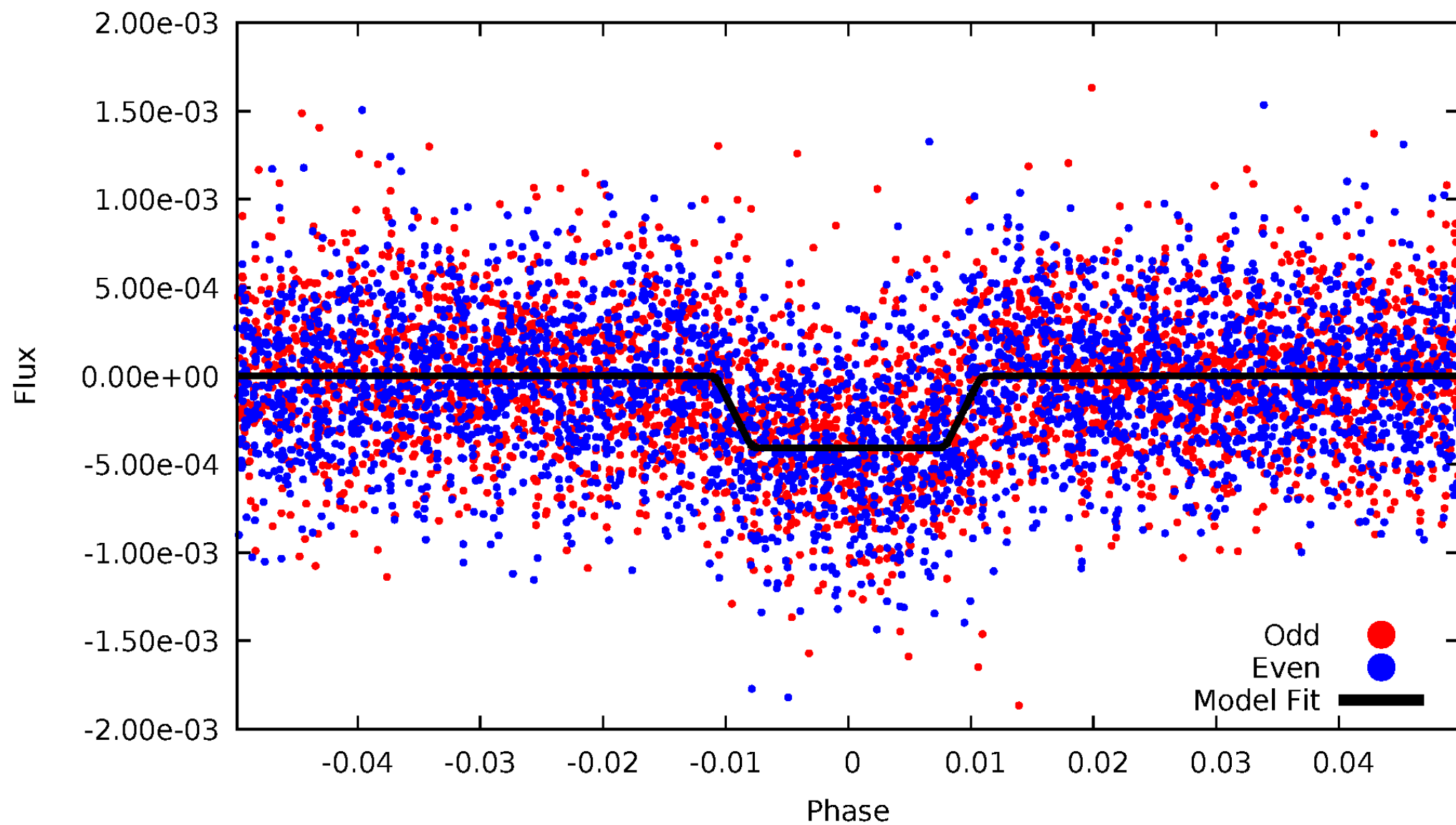
DV Odd/Even

TCE 011014932-01



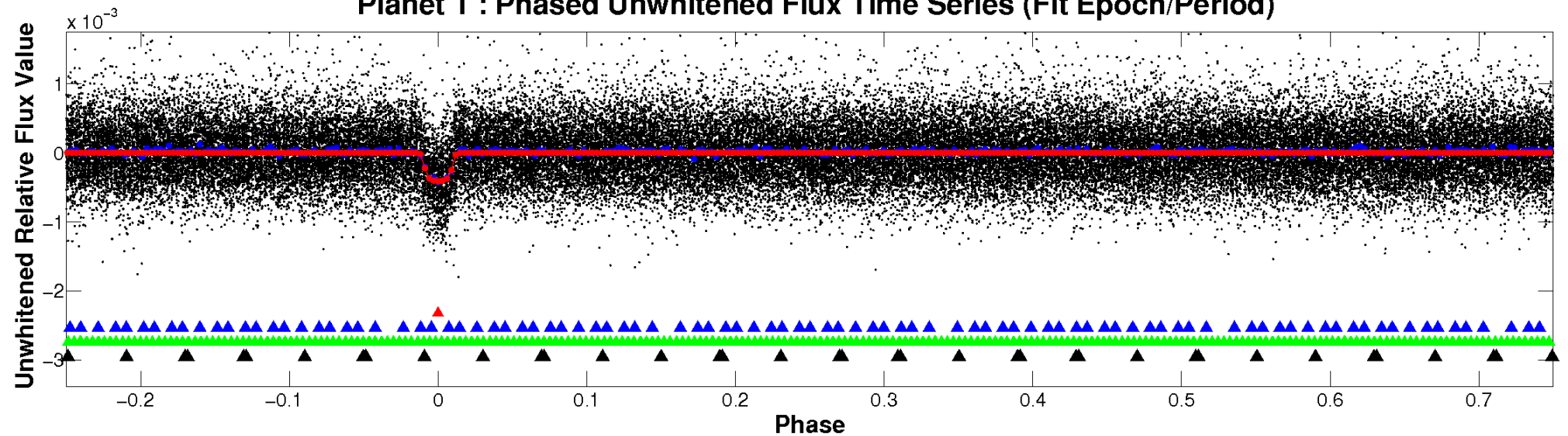
ALT Odd/Even

TCE 011014932-01

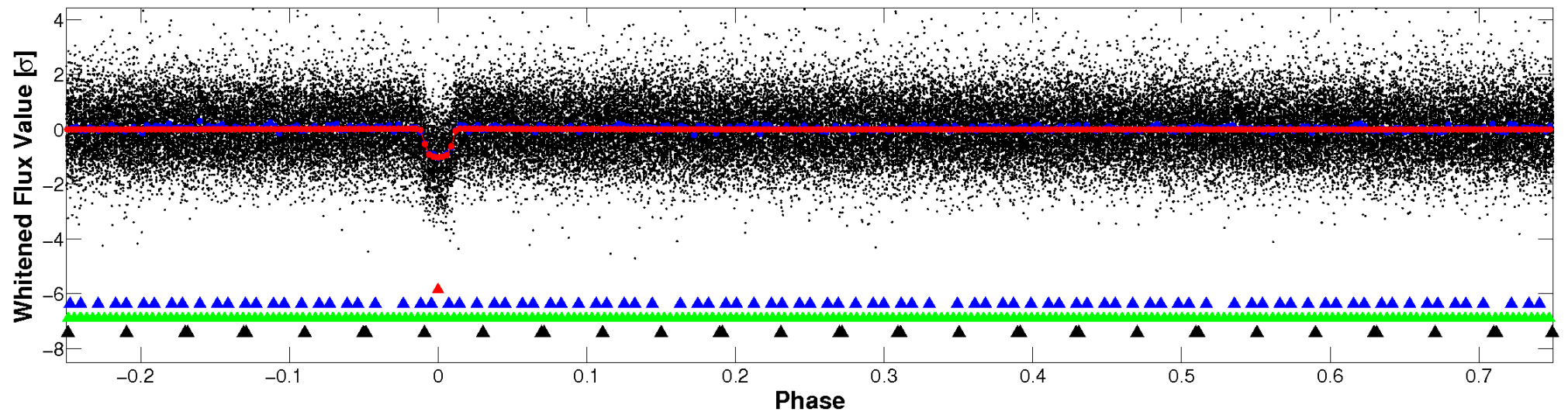


Non-Whitened Vs. Whitened Light Curve

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

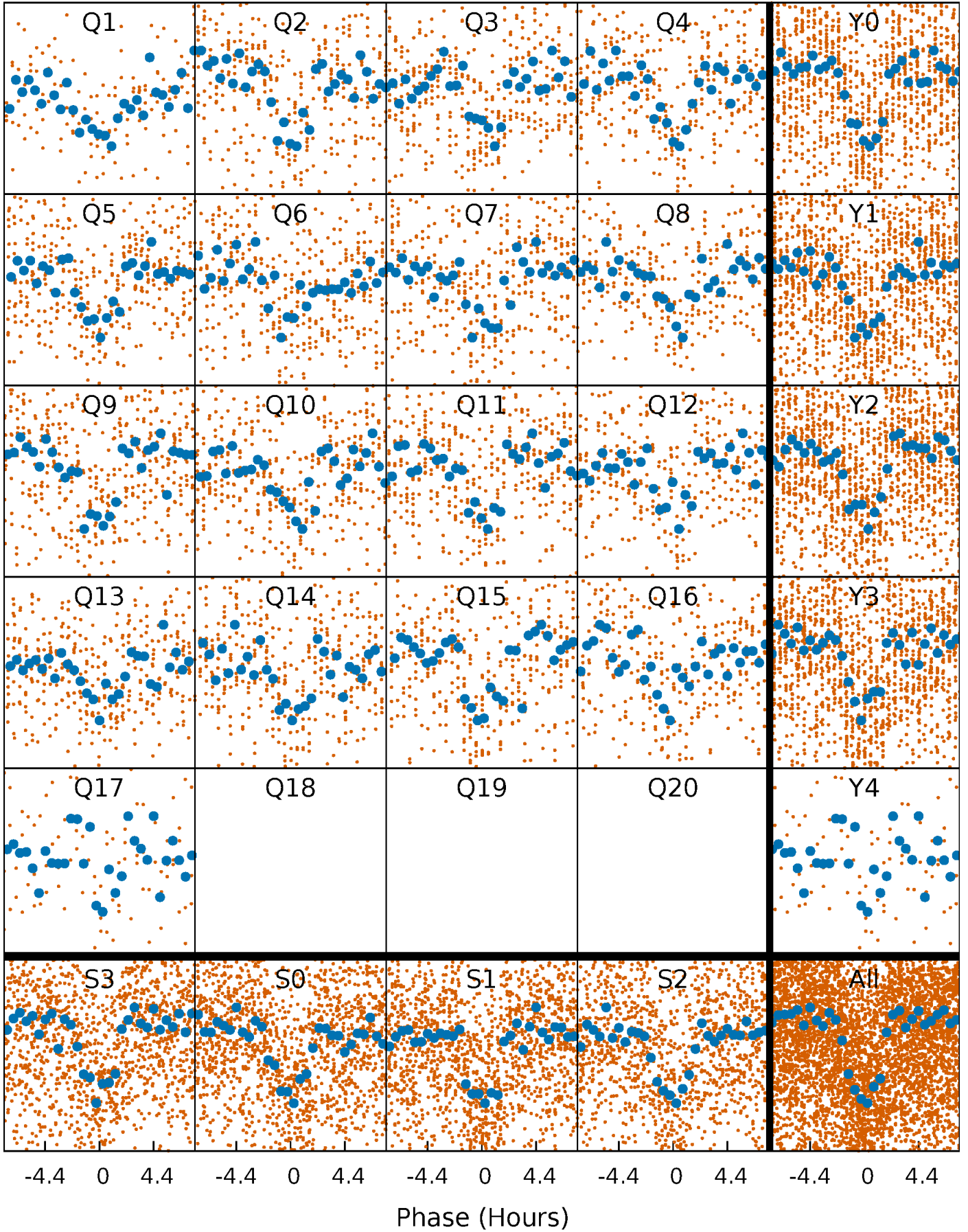


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



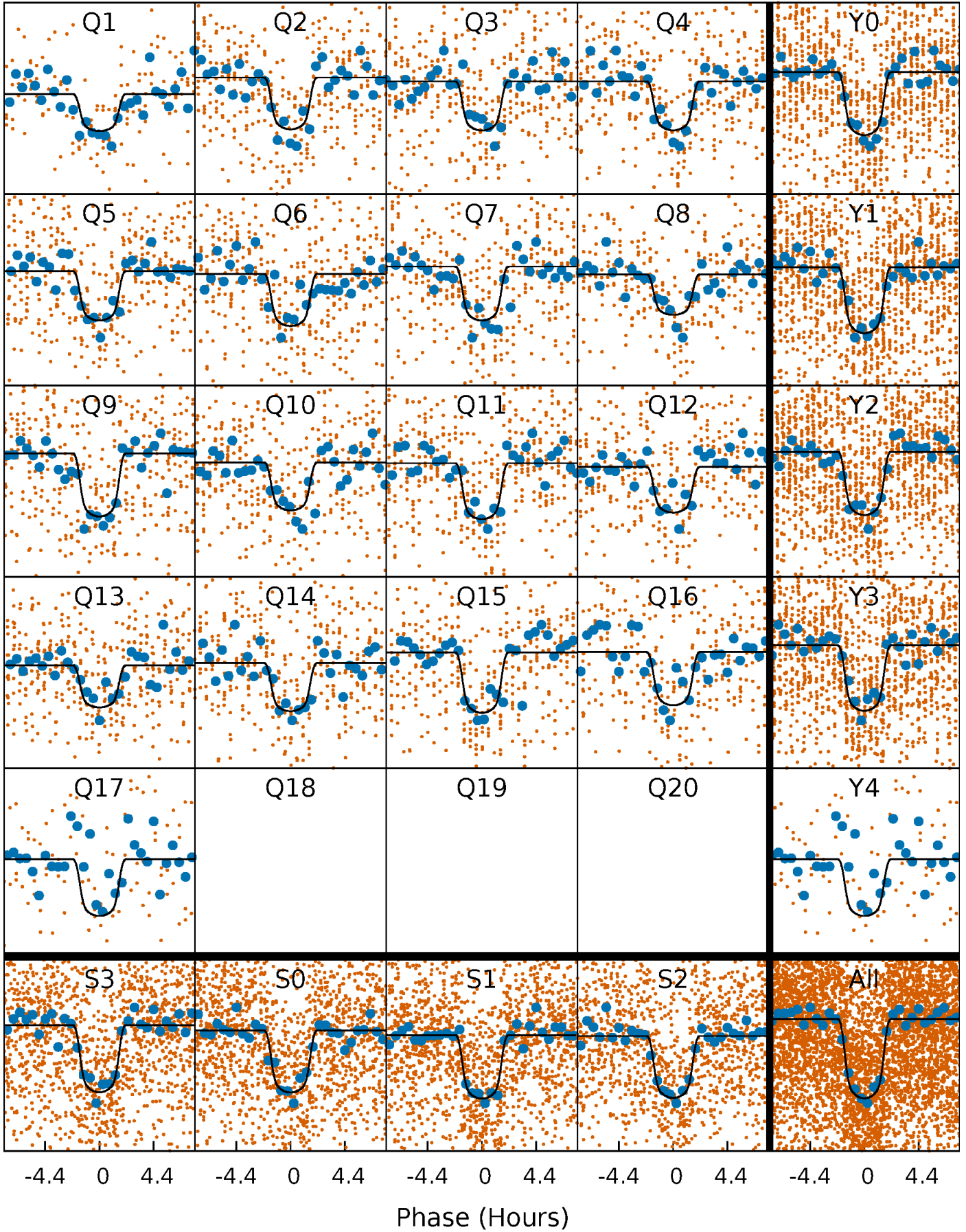
PDC Quarter-Phased Transit Curves

TCE 011014932-01 P= 6.885955 Days $T_0=131.521026$ (BKJD)



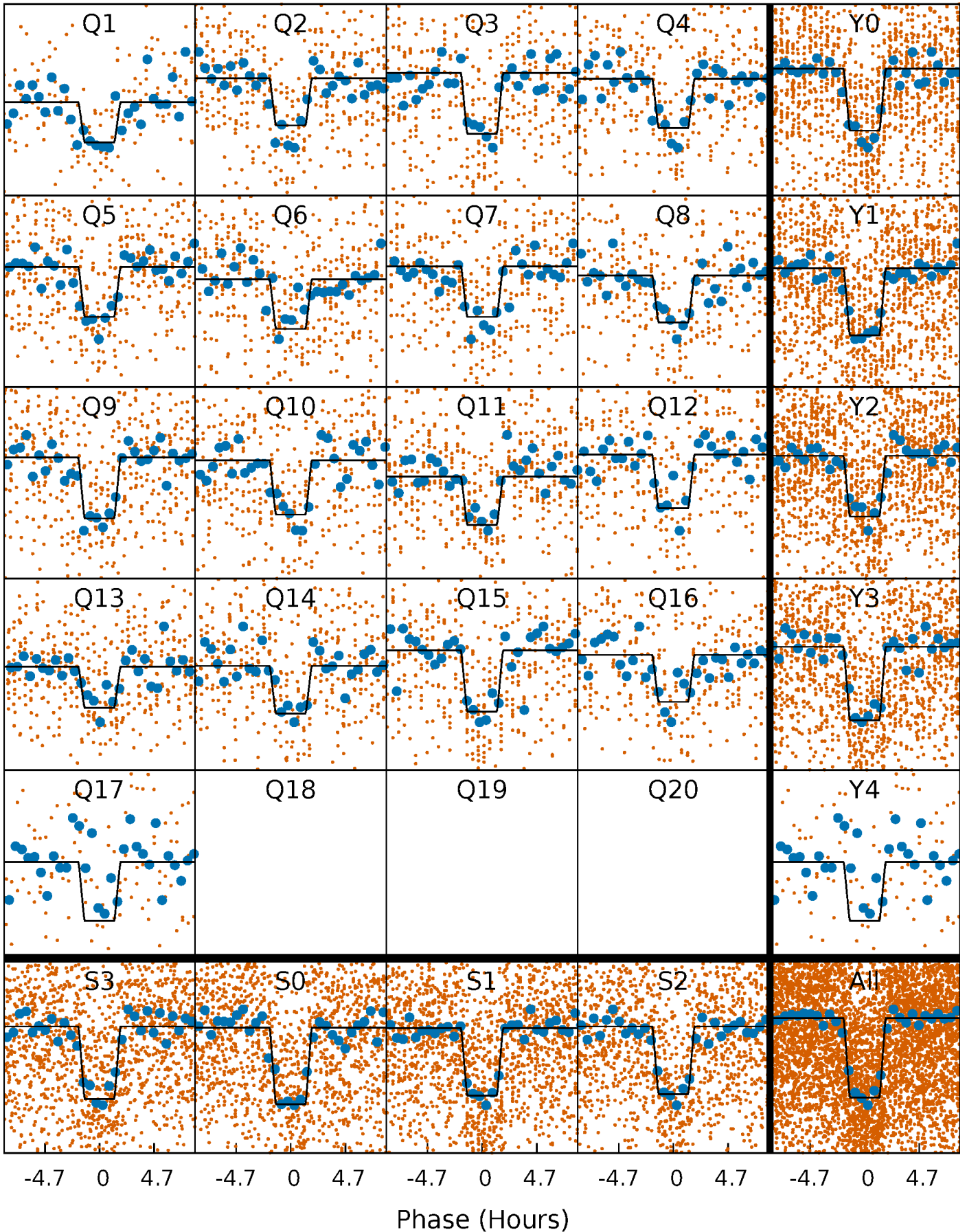
DV Quarter-Phased Transit Curves

TCE 011014932-01 P= 6.885955 Days $T_0=131.521026$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

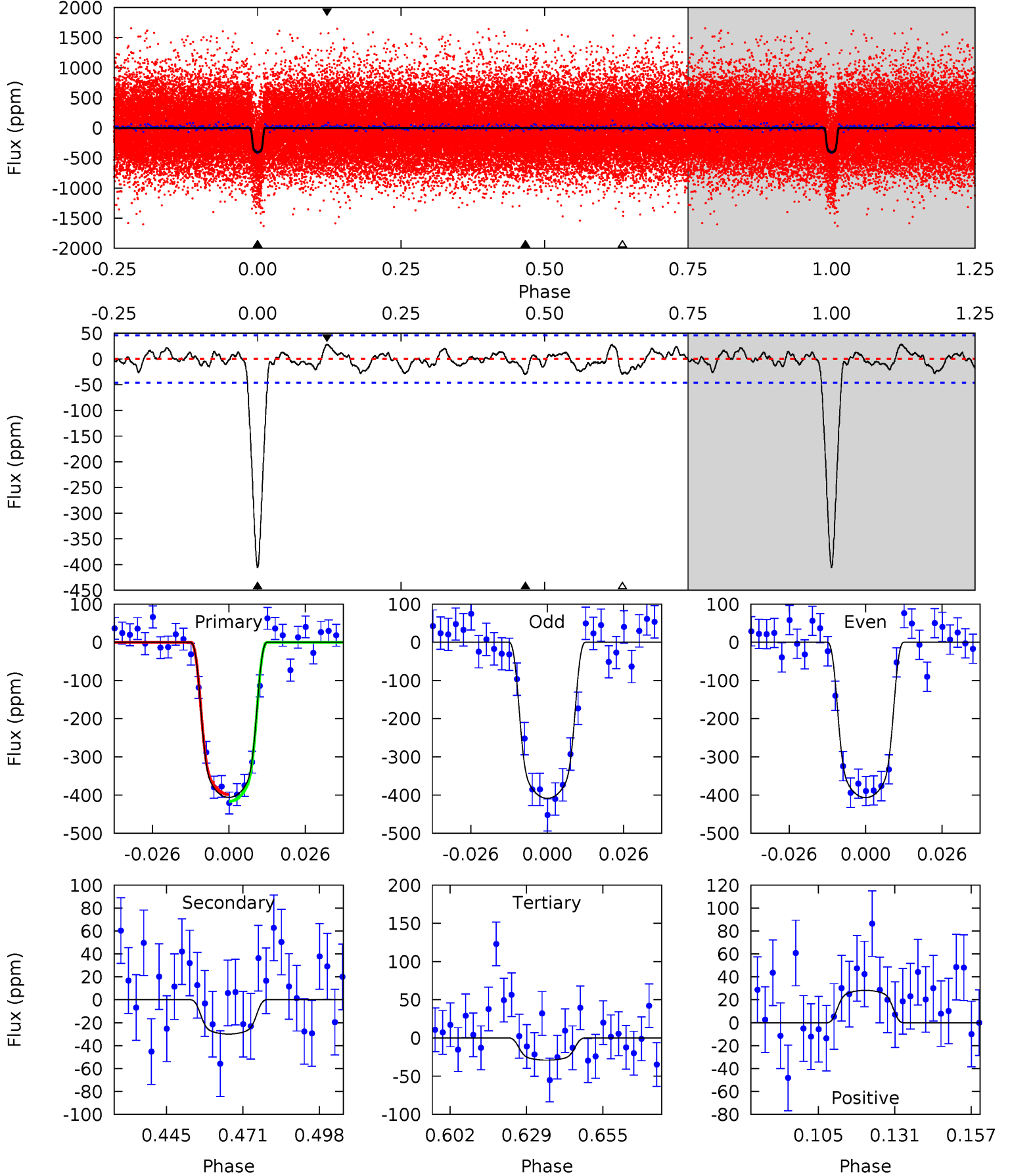
TCE 011014932-01 P= 6.885879 Days $T_0=131.529453$ (BKJD)



DV Model-Shift Uniqueness Test

011014932-01, P = 6.885955 Days, E = 124.635071 Days

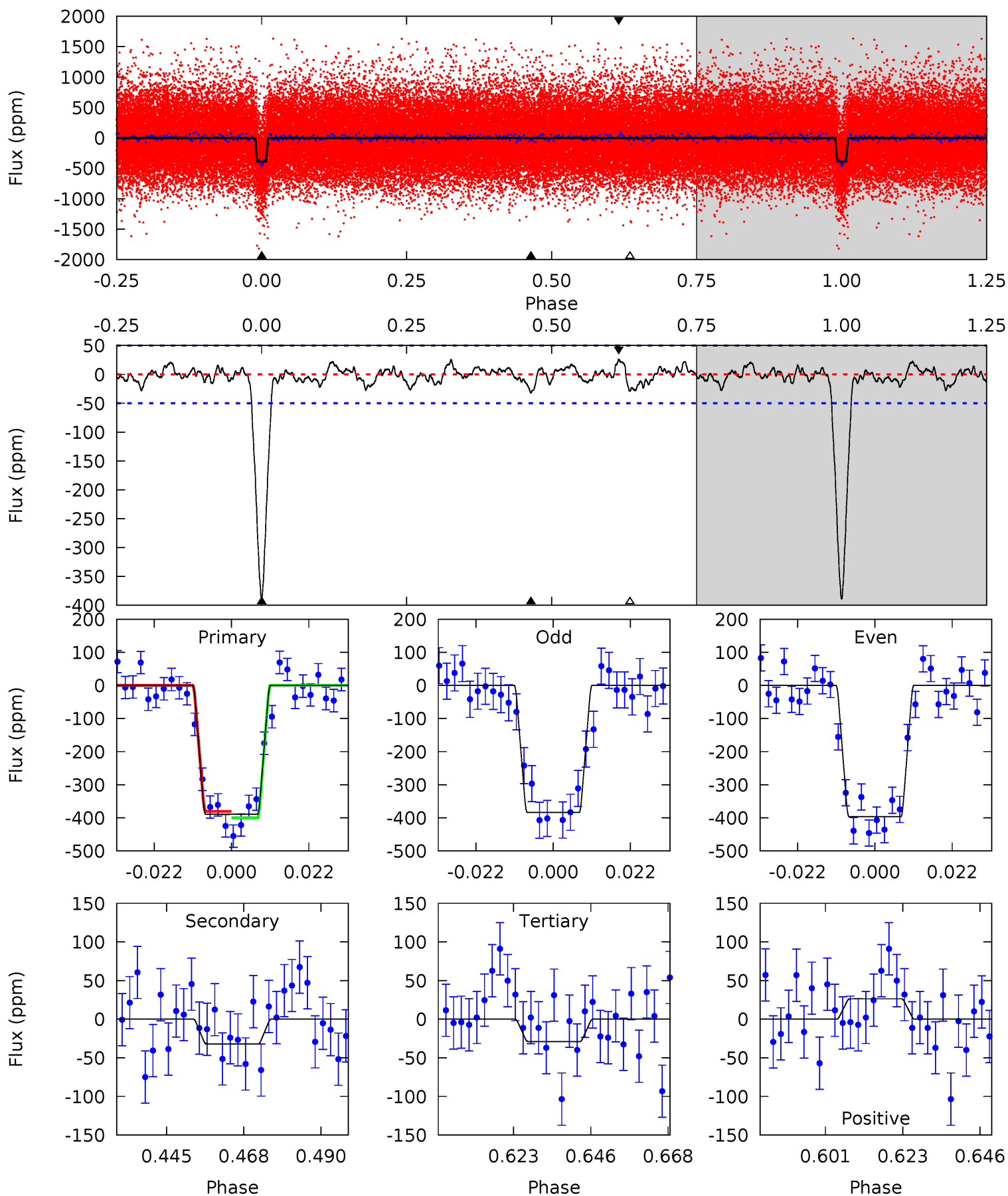
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
42.8	3.15	3.05	2.97	4.84	2.22	1.27	39.7	39.8	0.10	0.18	0.10	0.96	0.06	0.96



Alt Model-Shift Uniqueness Test

011014932-01, P = 6.885879 Days, E = 124.643574 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
38.0	3.13	2.83	2.58	4.87	2.29	1.05	35.2	35.5	0.30	0.56	0.62	0.99	0.06	0.95



Stellar Parameters For KIC 011014932

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5616^{+101}_{-101}	$4.394^{+0.105}_{-0.105}$	$-0.020^{+0.150}_{-0.150}$	$0.999^{+0.142}_{-0.116}$	$0.903^{+0.068}_{-0.051}$	$1.275^{+0.560}_{-0.387}$
	+2%/-2%	+2%/-2%	+750%/-750%	+14%/-12%	+8%/-6%	+44%/-30%
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 011014932-01 / KOI 1432.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-30 ± 9	$2.56^{+0.24}_{-0.22}$	1326^{+48}_{-53}	3258^{+160}_{-183}	12^{+5}_{-4}
Alt.	-32 ± 10	$2.20^{+0.22}_{-0.20}$	1323^{+57}_{-52}	3460^{+173}_{-189}	17^{+6}_{-6}

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

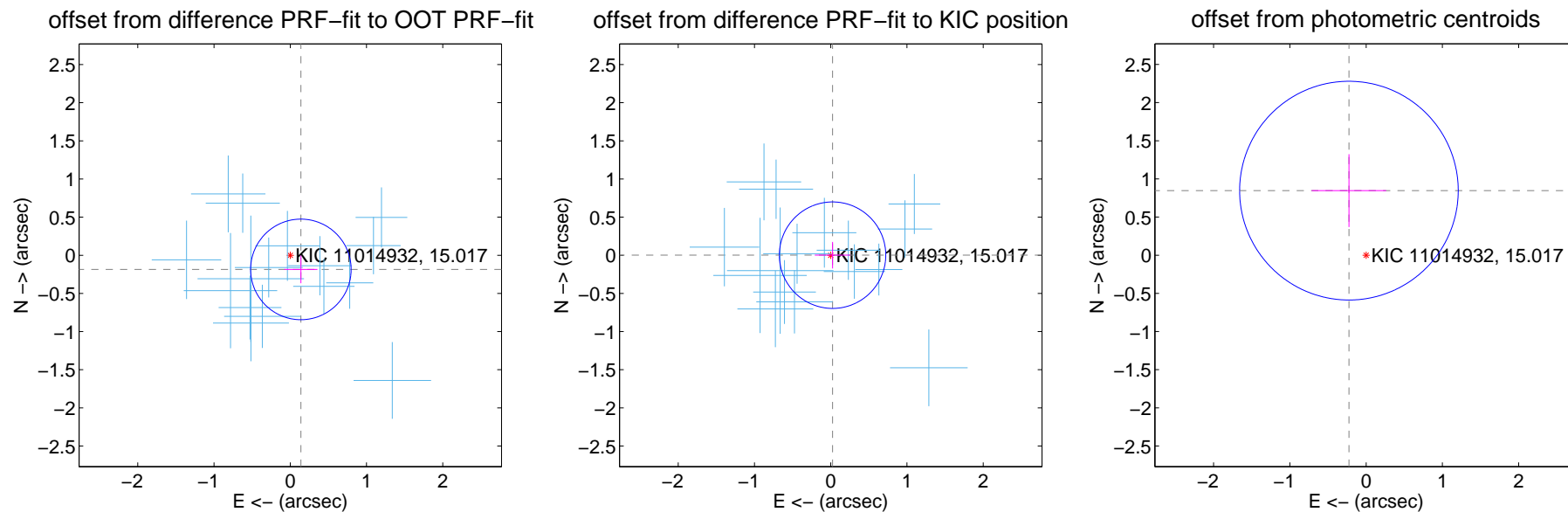
DV Centroid Data

Supplemental centroid analysis for 011014932-01. Kepler magnitude: 15.02. Transit SNR 31.37

There are 16 quarters with good PRF difference image offsets

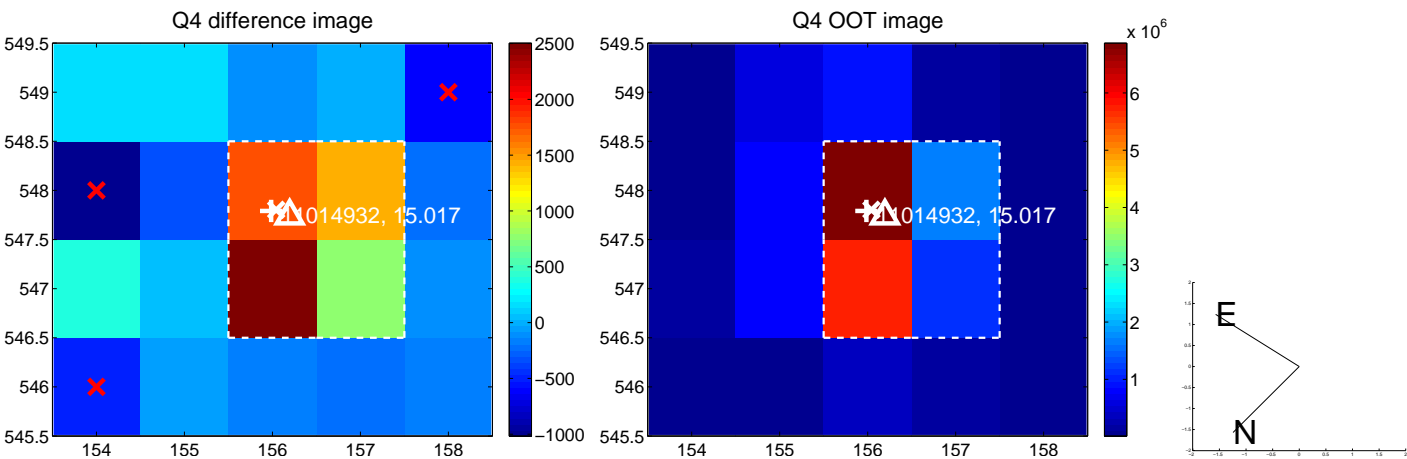
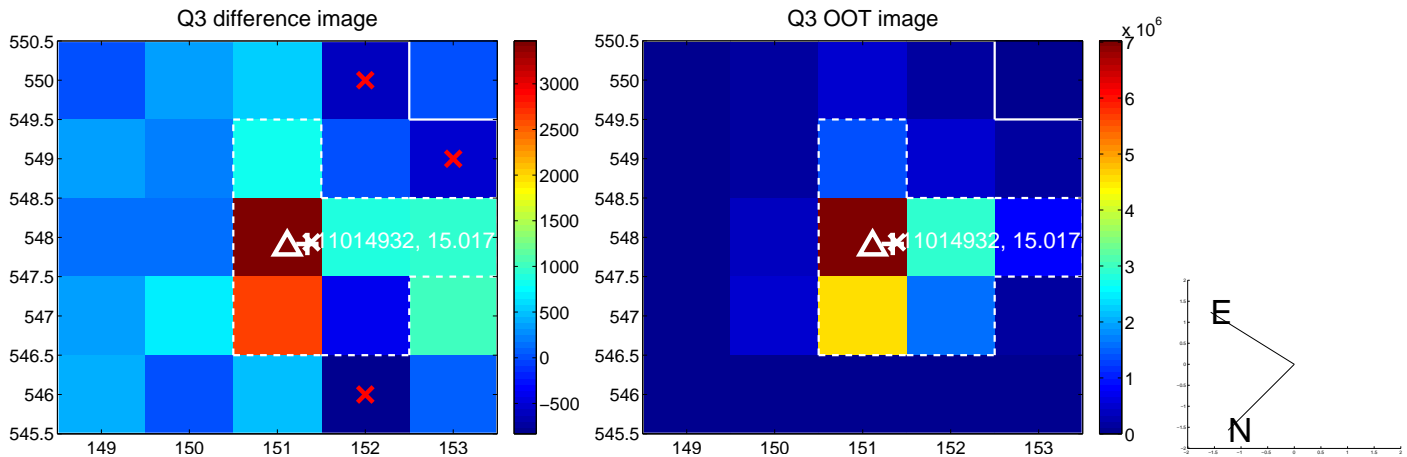
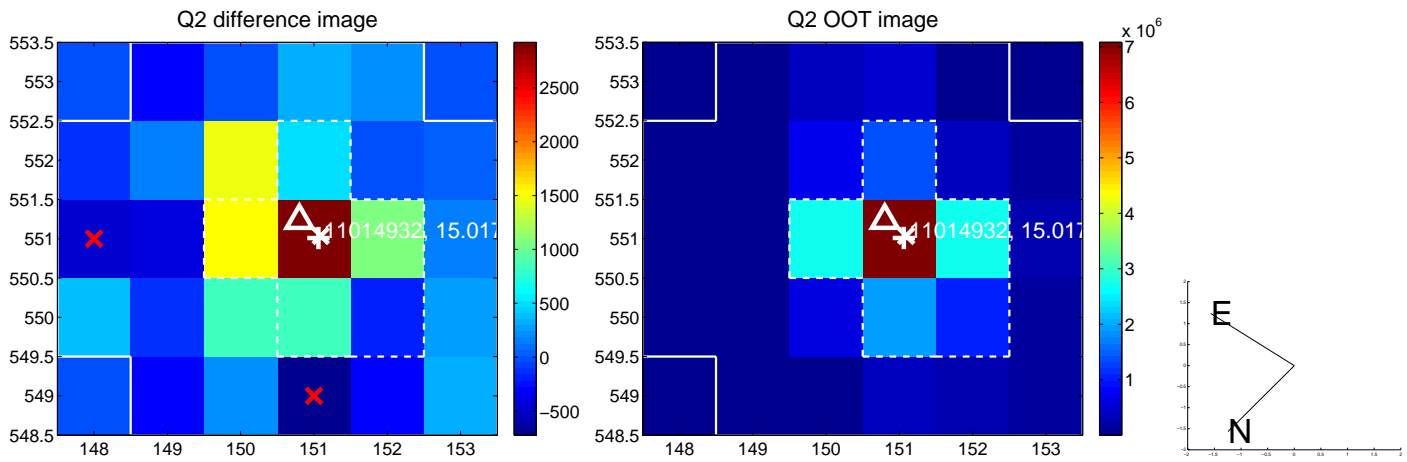
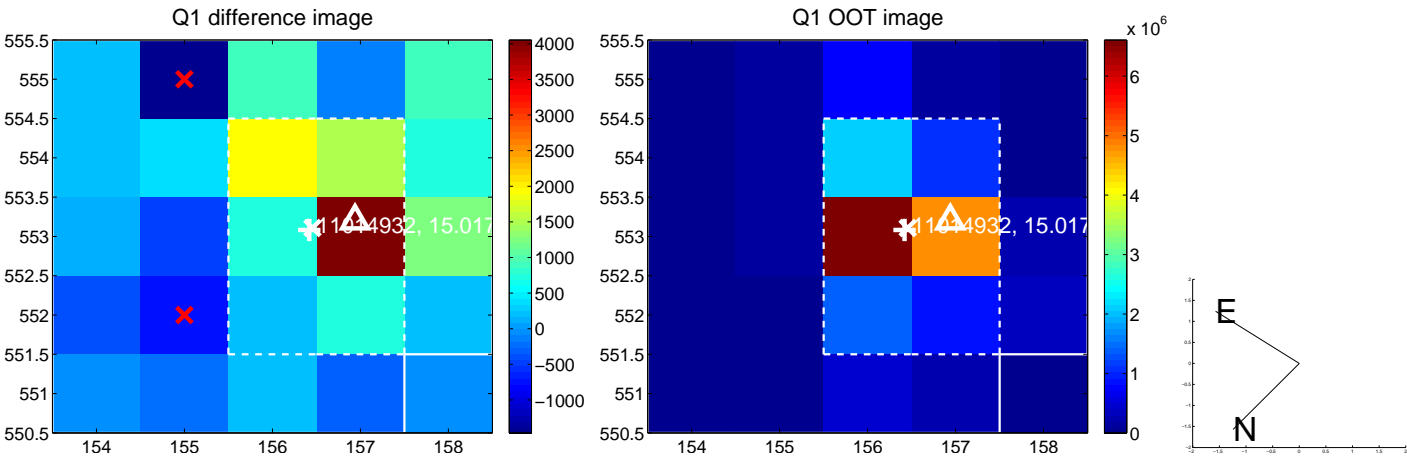
The direct PRF centroid is offset from the target star catalog position by about 0.26 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.232 ± 0.220	1.06	-0.139 ± 0.216	-0.185 ± 0.181
PRF-fit source offset from KIC position	0.024 ± 0.233	0.10	-0.024 ± 0.233	0.001 ± 0.173
photometric centroid source offset	0.88 ± 0.48	1.83	0.23 ± 0.49	0.85 ± 0.48

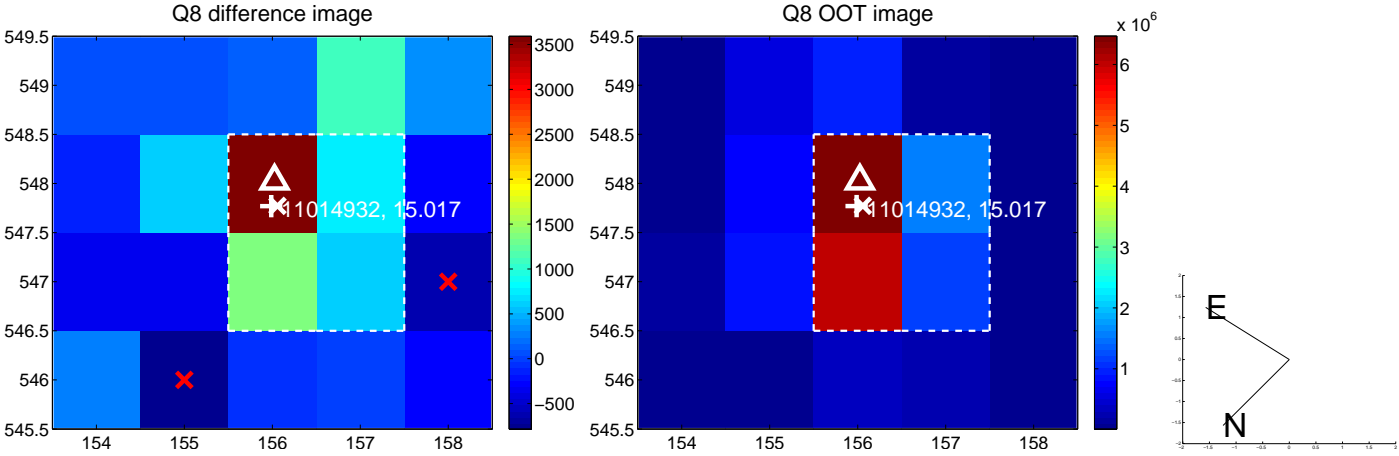
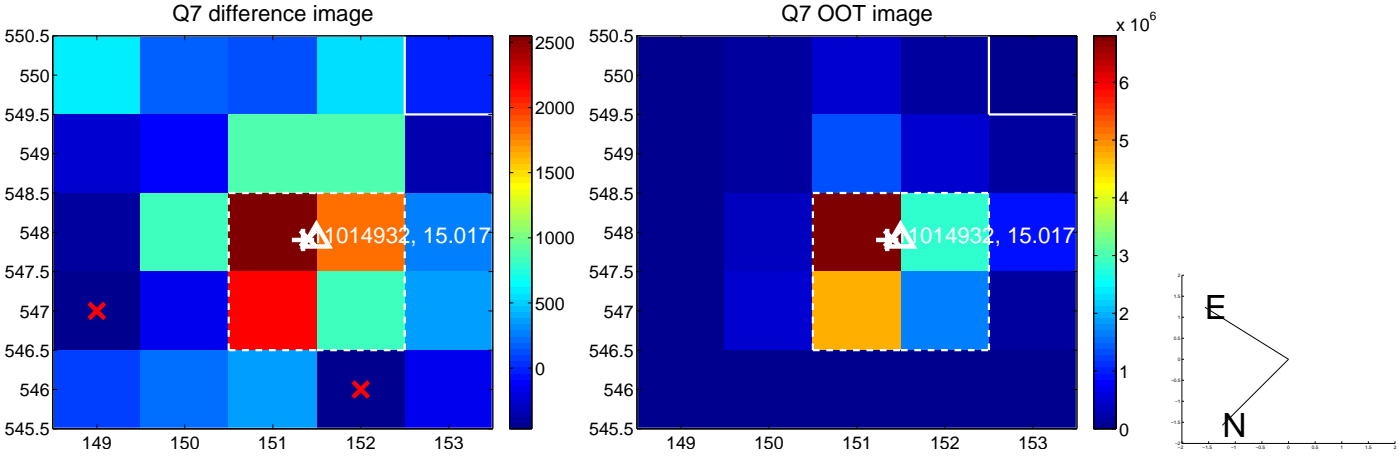
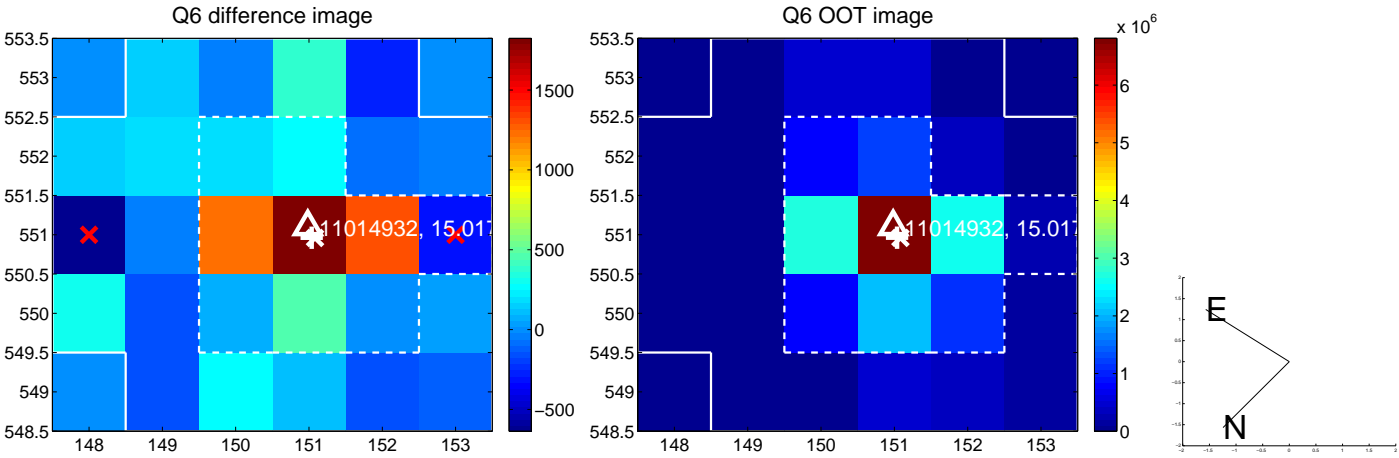
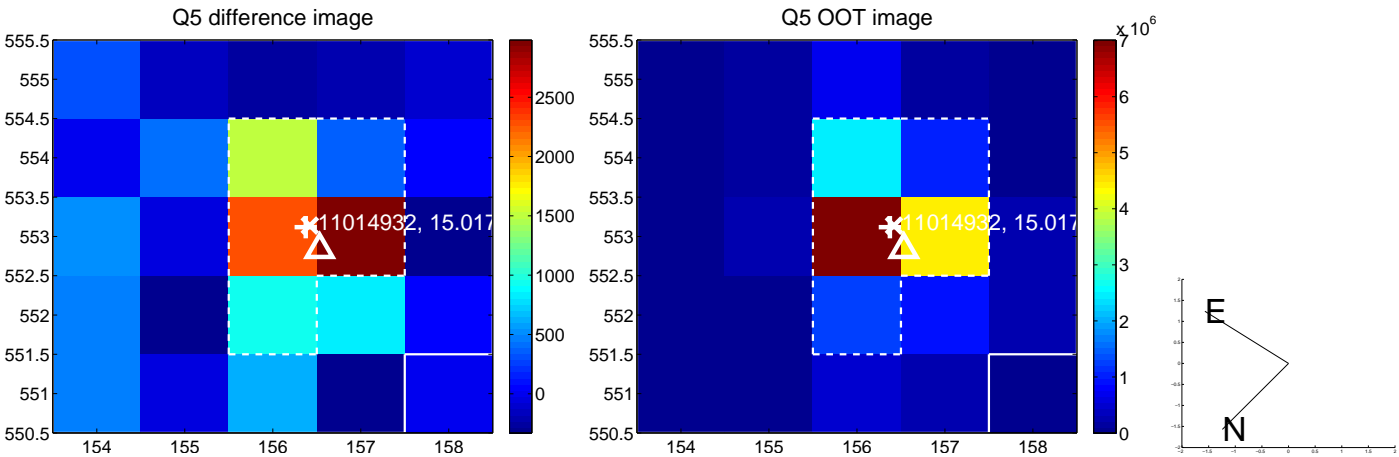


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

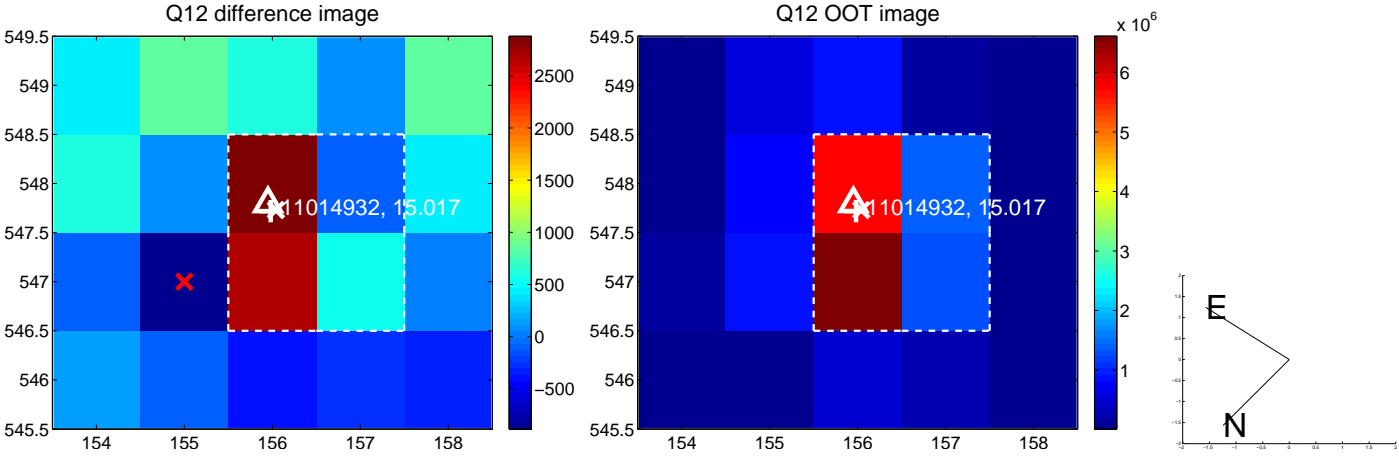
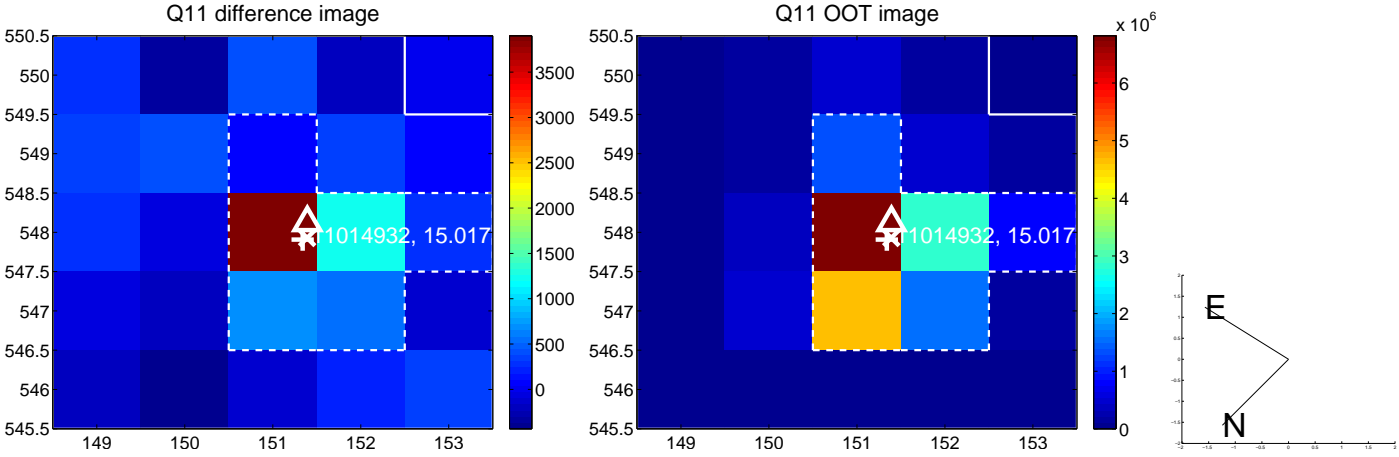
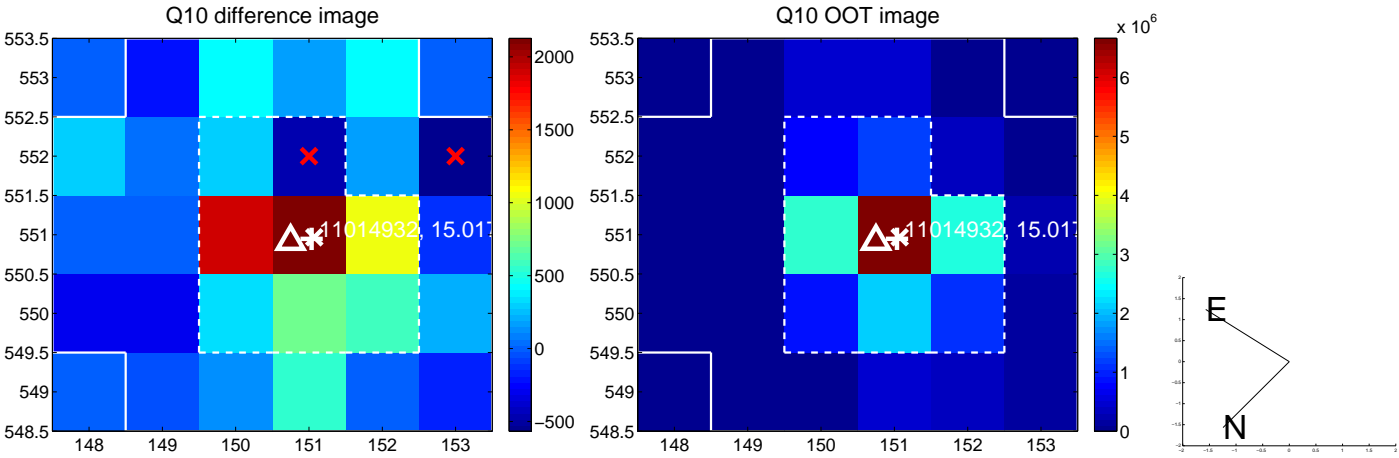
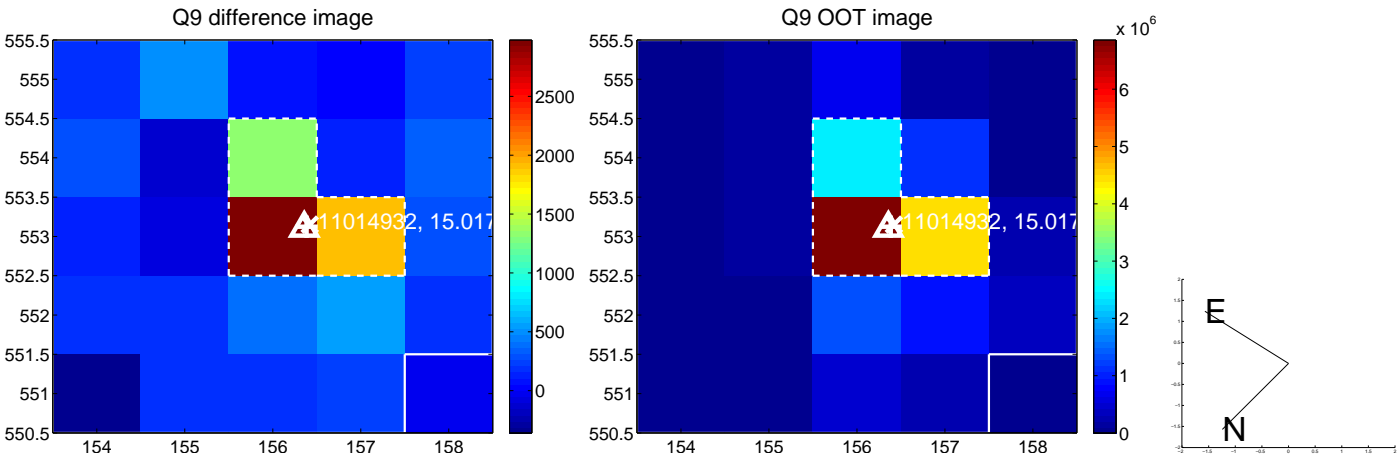
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



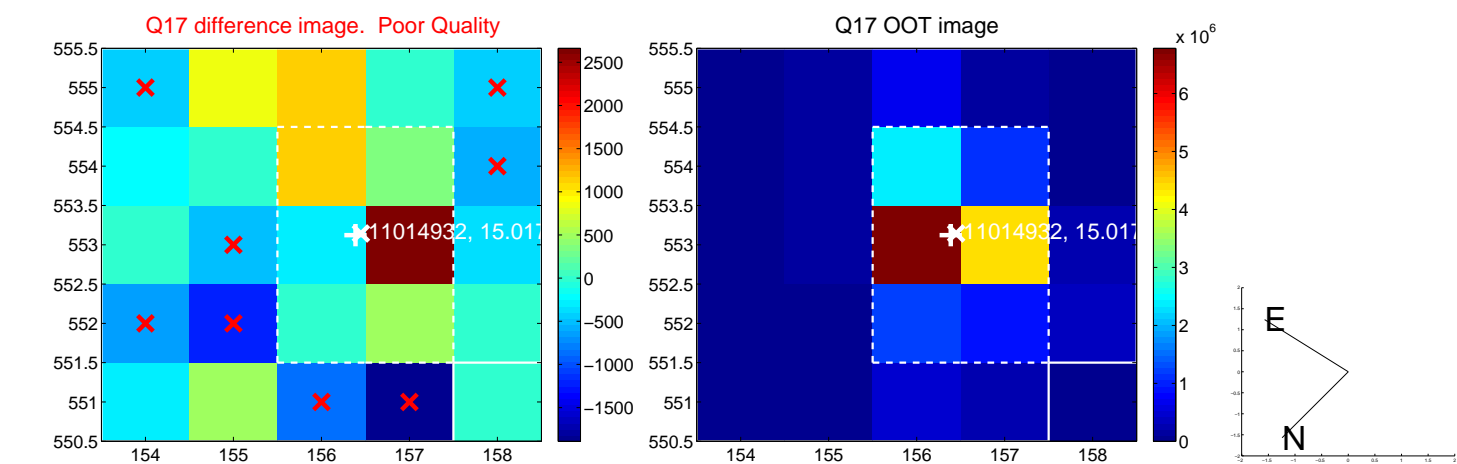
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



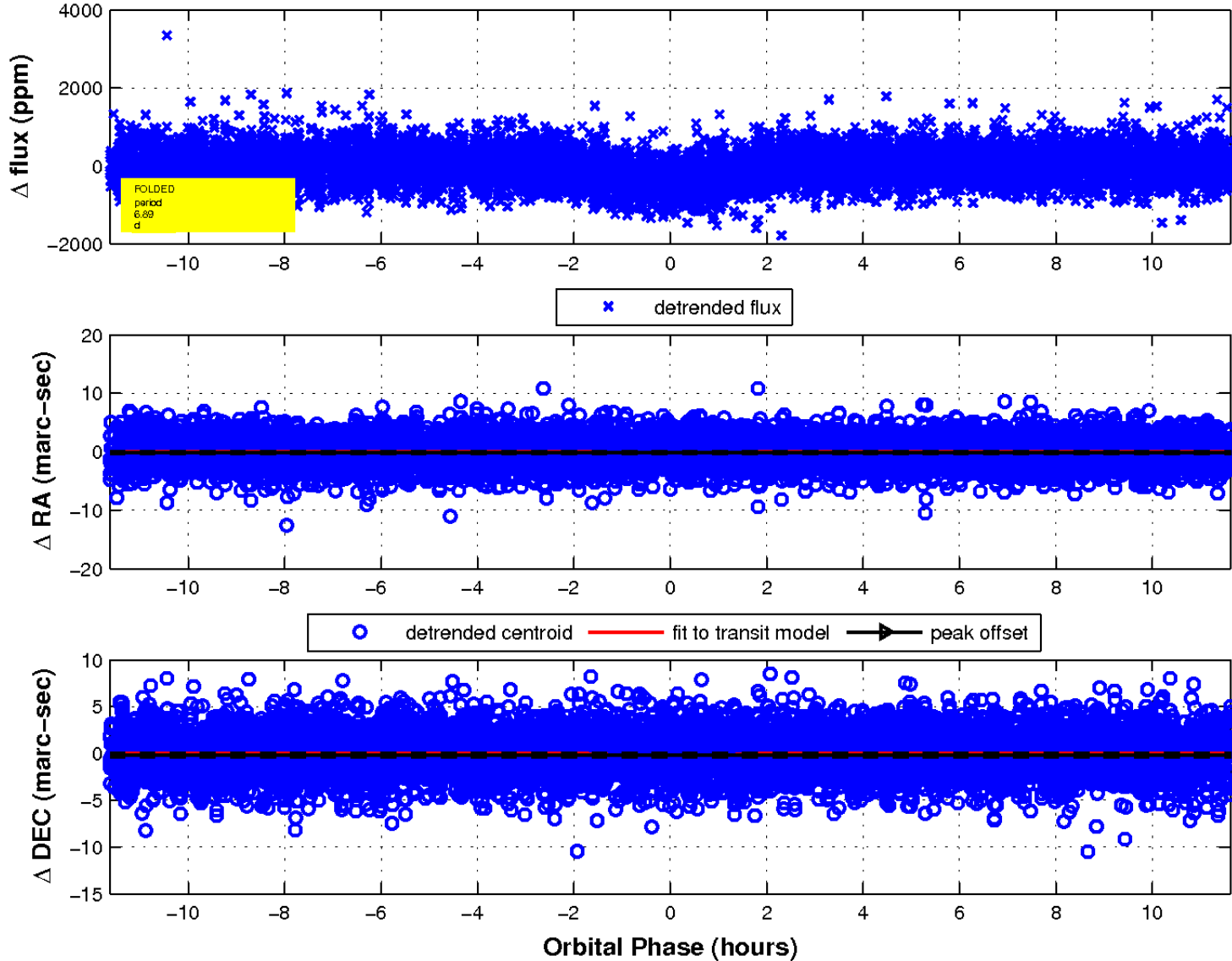
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 4



This plot does not exist for this TCE.

KIC 011014932

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})
011014932-01	OBS	1432.01	6.885955	131.521025	412.6	3.877	29.0	31.4	1.00	5616	2.55	189.83
011014932-02	OBS	1432.02	15.054898	144.580129	242.0	4.772	14.5	14.1	1.00	5616	1.76	66.90
011014932-03	OBS	1432.03	2.927214	133.826616	156.6	2.651	14.1	15.5	1.00	5616	1.46	593.89
011014932-04	OBS	1432.04	38.285426	143.307991	325.2	5.897	11.1	12.1	1.00	5616	2.02	19.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011014932-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-03	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-04	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.

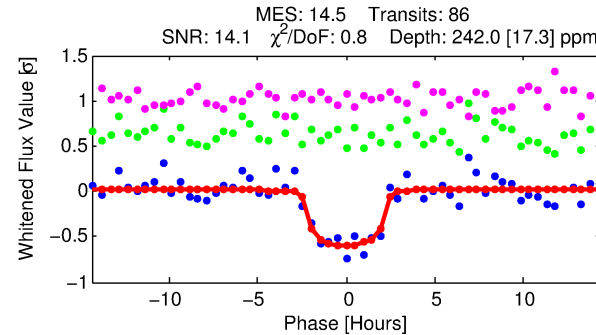
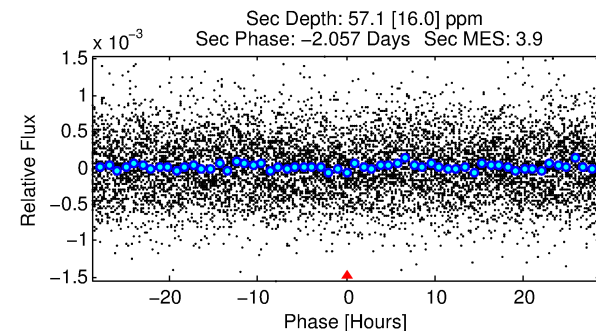
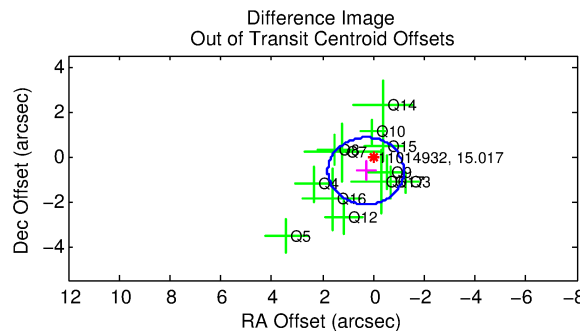
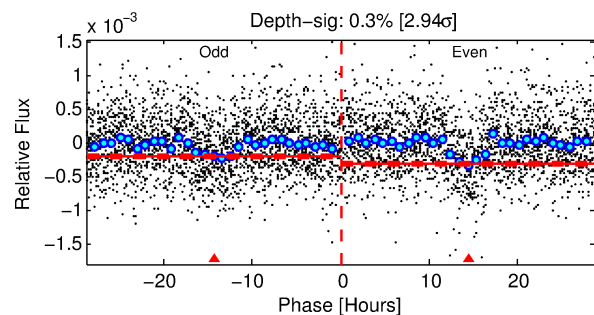
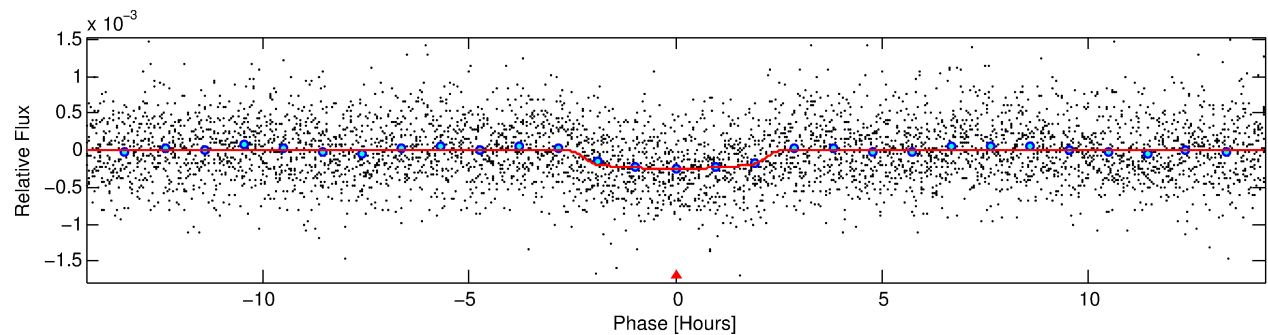
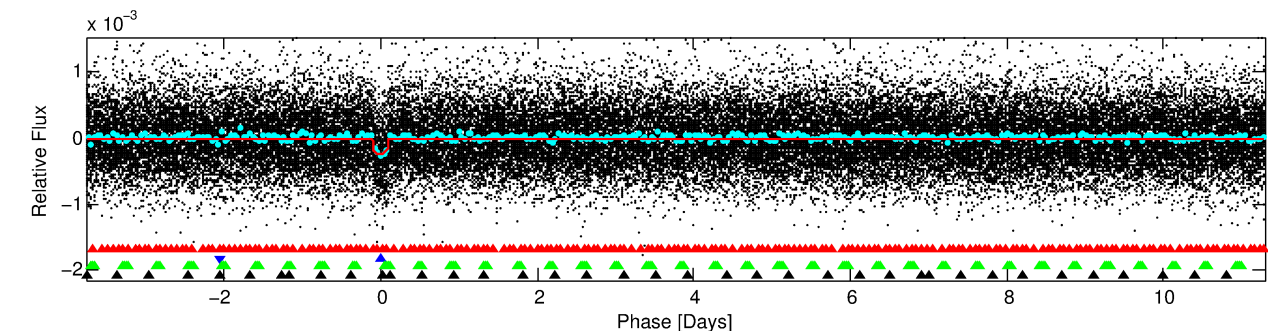
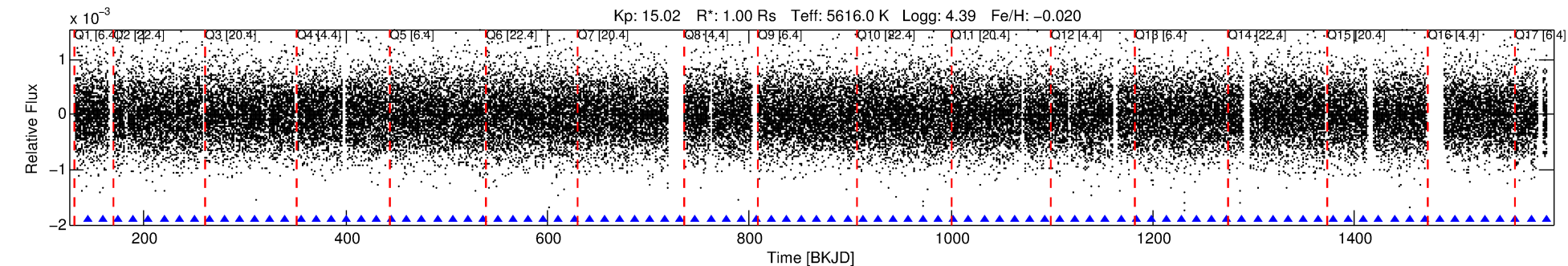
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011014932-02

No Significant Match Found

DV One-Page Summary

KIC: 11014932 Candidate: 2 of 4 Period: 15.055 d
KOI: K01432.02 Name: Kepler-299d Corr: 0.991



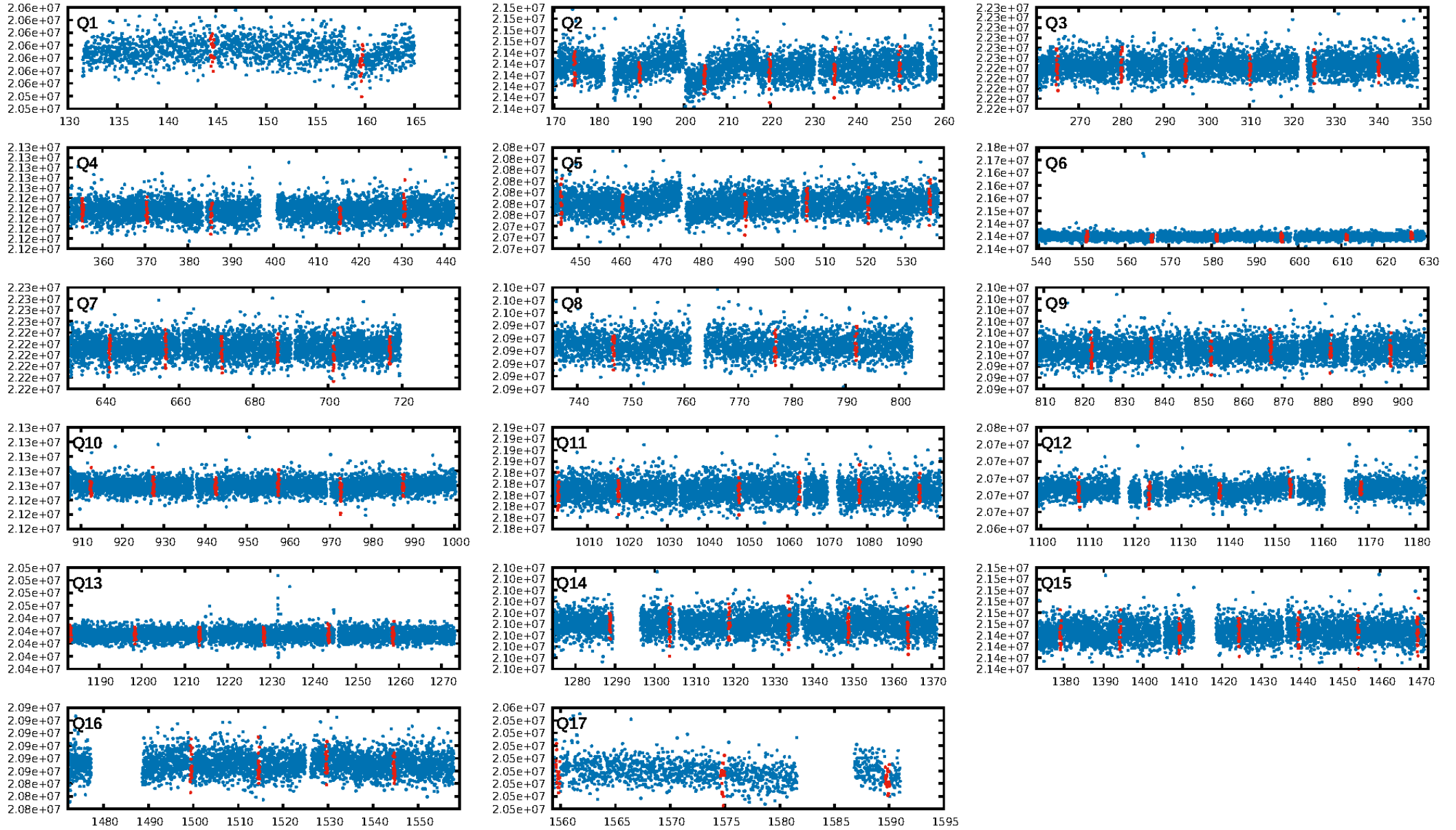
DV Fit Results:

Period = 15.05490 [0.00013] d
Epoch = 144.5801 [0.0070] BKJD
Rp/R* = 0.0162 [0.0078]
a/R* = 13.93 [29.50]
b = 0.84 [0.78]
Seff = 66.90 [13.40]
Teff = 729 [37] K
Rp = 1.76 [0.89] Re
a = 0.1153 [0.0143] AU
Ag = 134.22 [137.20] [0.97σ]
Teffp = 3838 [967] K [3.21σ]

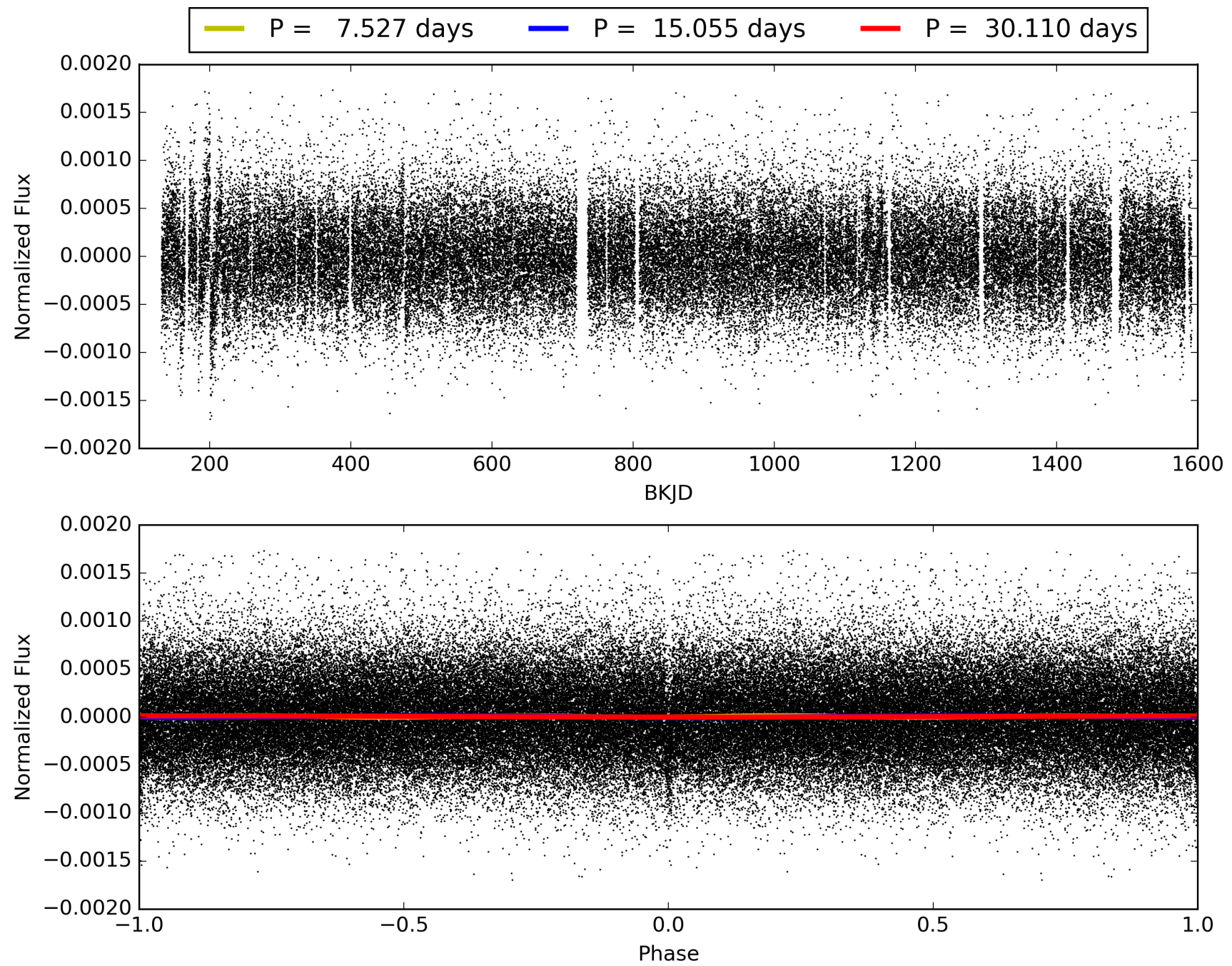
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [31.89σ]
LongPeriod-sig: 100.0% [73.49σ]
ModelChiSquare2-sig: 99.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.53e-47
RollingBand-fgt: 1.00 [81/81]
GhostDiagnostic-chr: 3.167
Centroid-sig: 0.8%
Centroid-so: 1.586 arcsec [1.52σ]
OotOffset-rm: 0.710 arcsec [1.43σ]
KicOffset-rm: 0.624 arcsec [1.34σ]
OotOffset-st: 3/3/4/3 [13]
KicOffset-st: 3/3/4/3 [13]
DiffImageQuality-fgm: 0.46 [6/13]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 011014932-02, PDC Light Curves

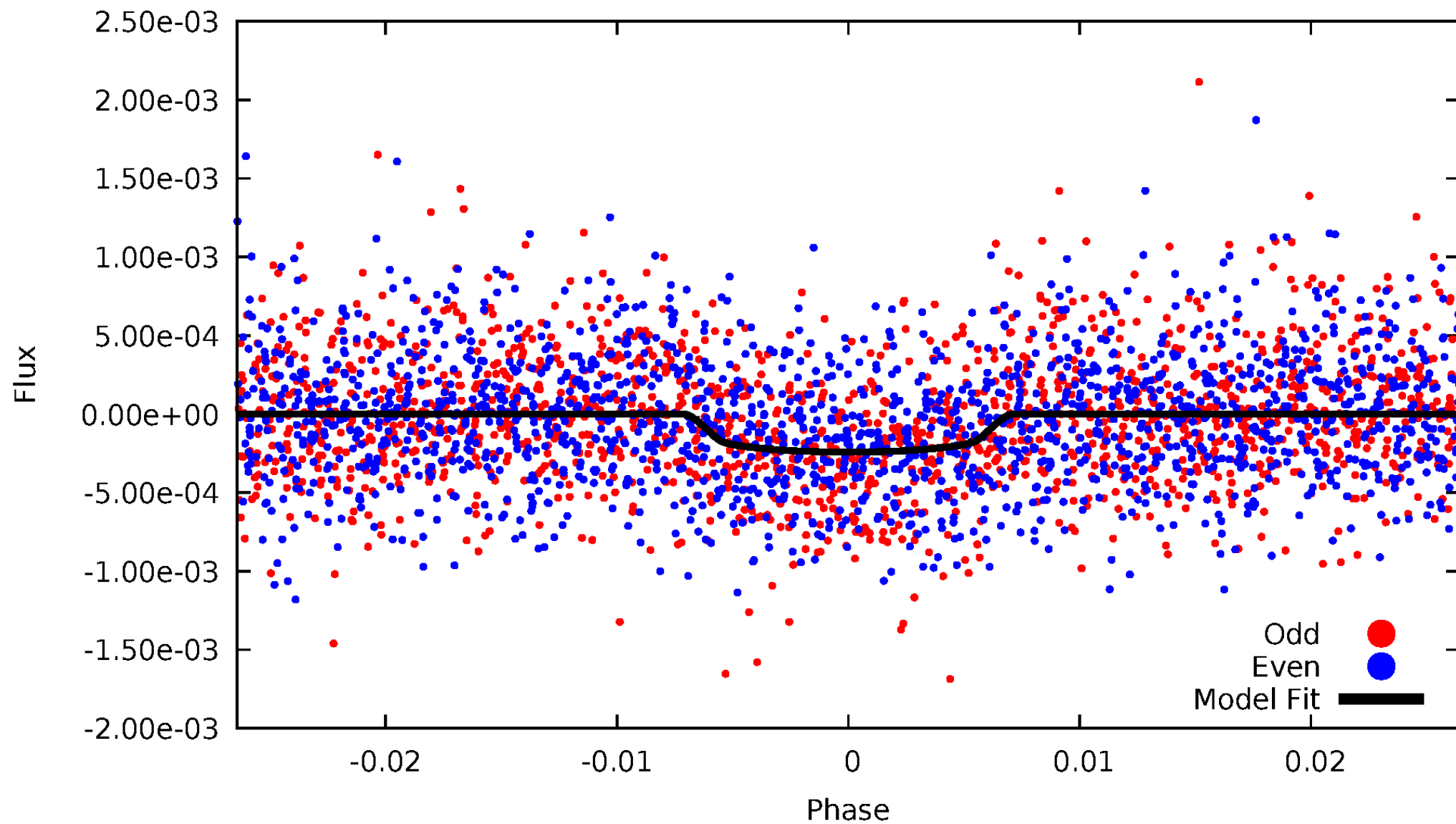


TCE 011014932-02



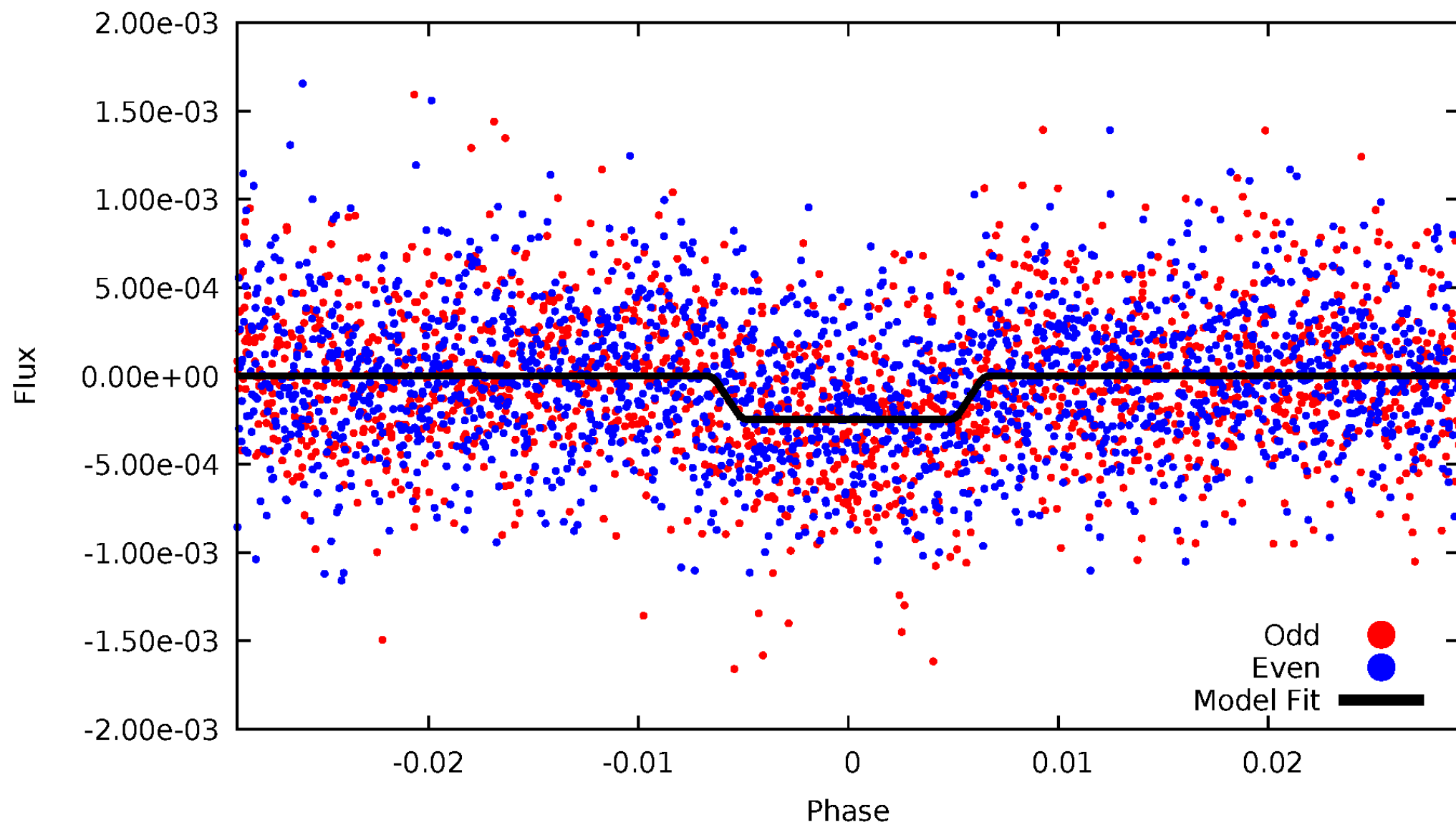
DV Odd/Even

TCE 011014932-02



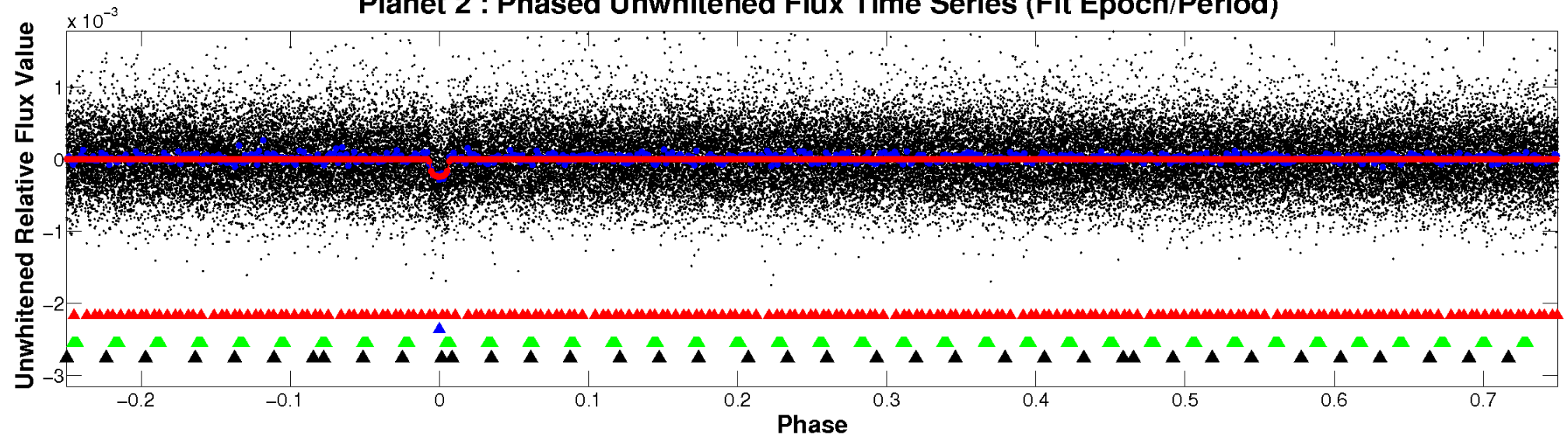
ALT Odd/Even

TCE 011014932-02

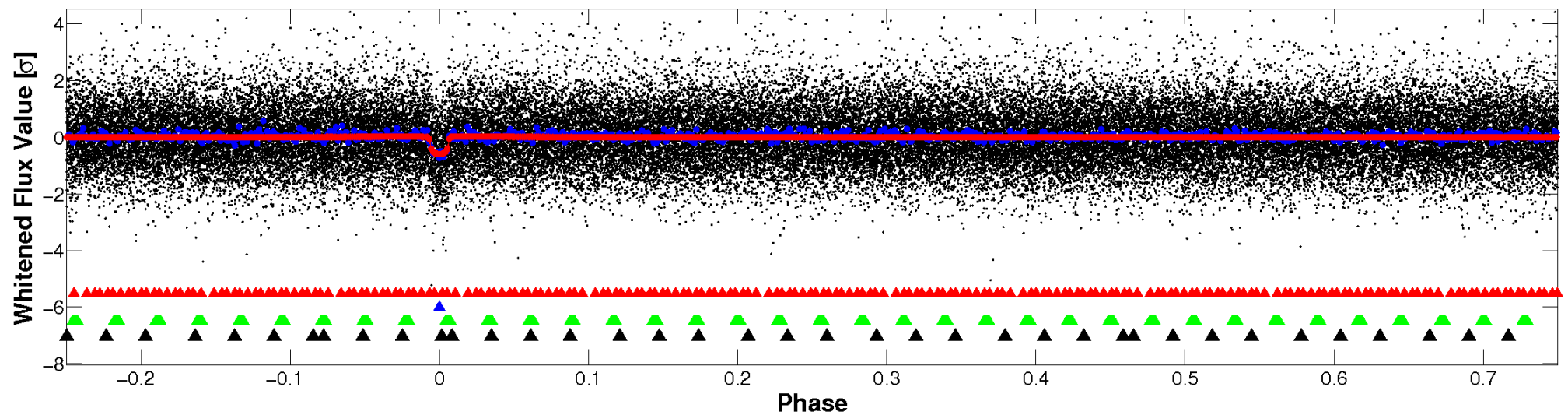


Non-Whitened Vs. Whitened Light Curve

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

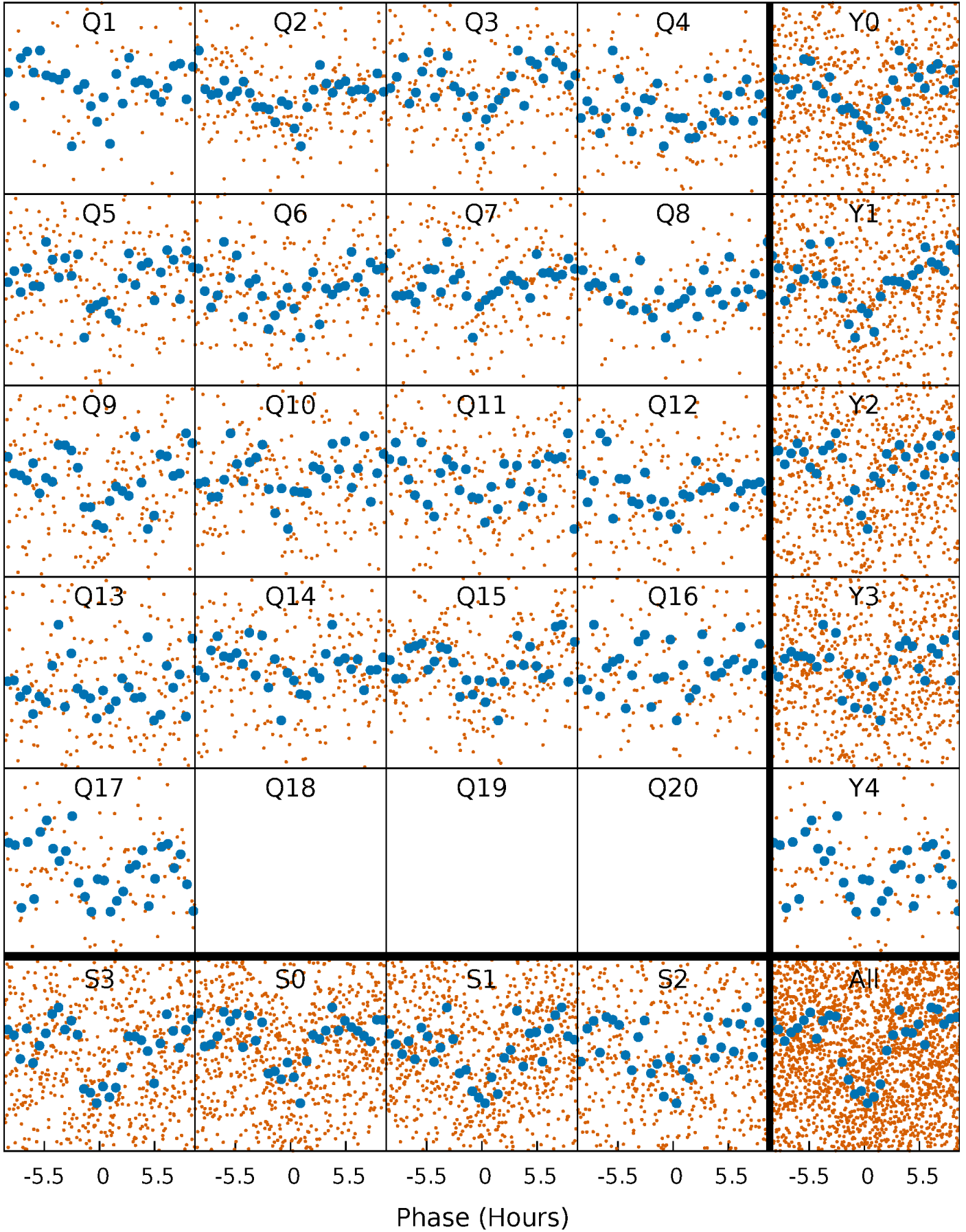


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



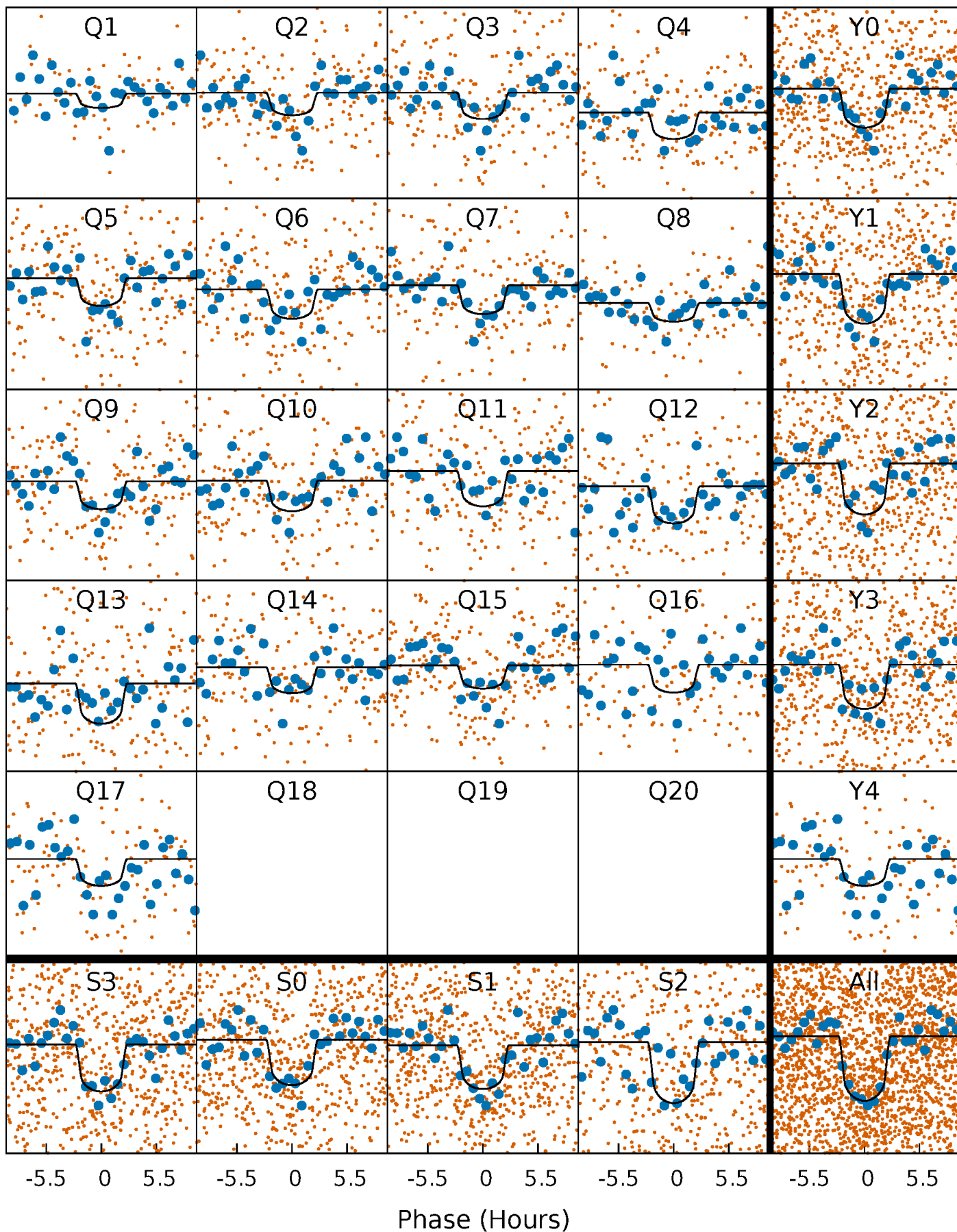
PDC Quarter-Phased Transit Curves

TCE 011014932-02 P= 15.054898 Days $T_0=144.580129$ (BKJD)



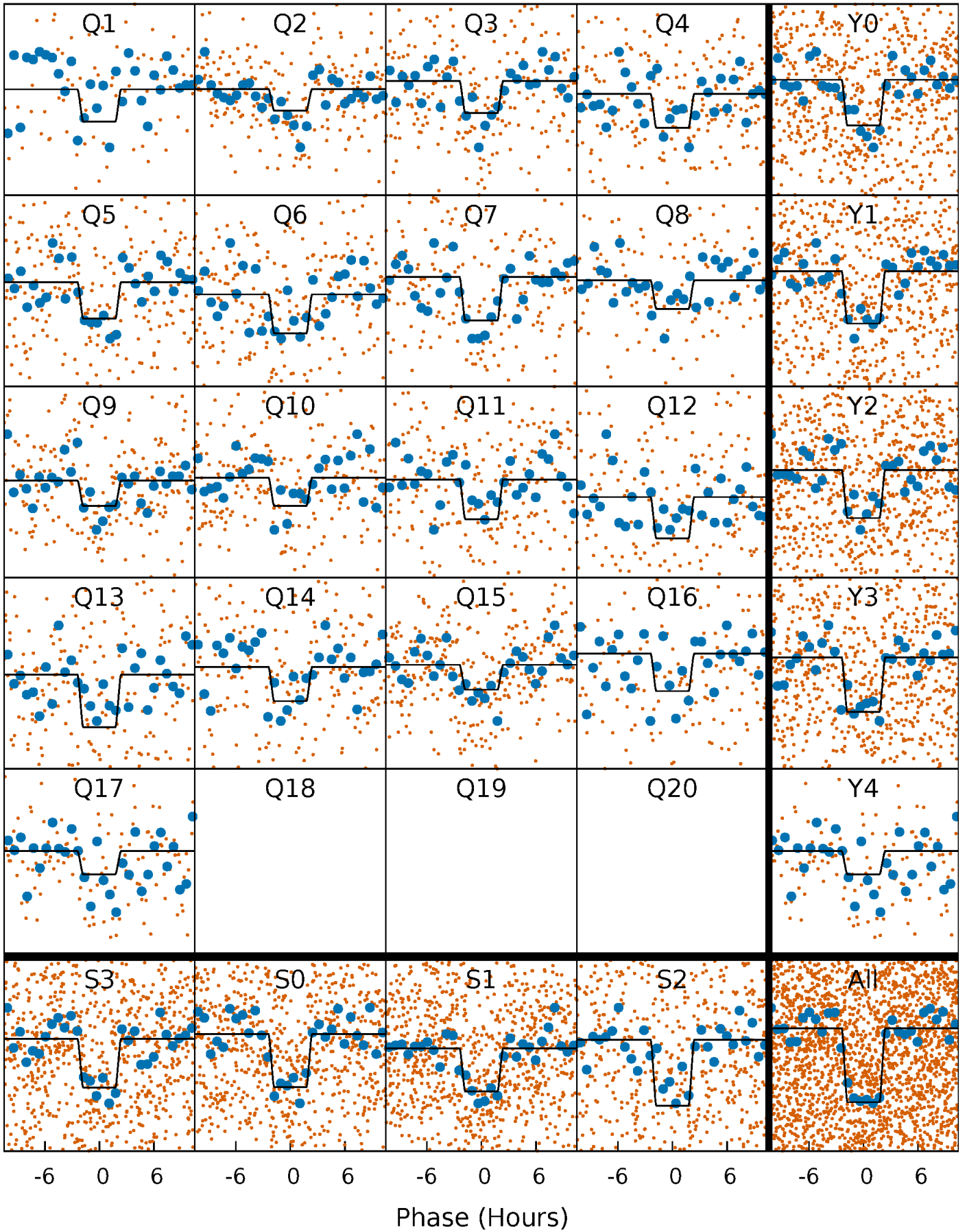
DV Quarter-Phased Transit Curves

TCE 011014932-02 P= 15.054898 Days $T_0=144.580129$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

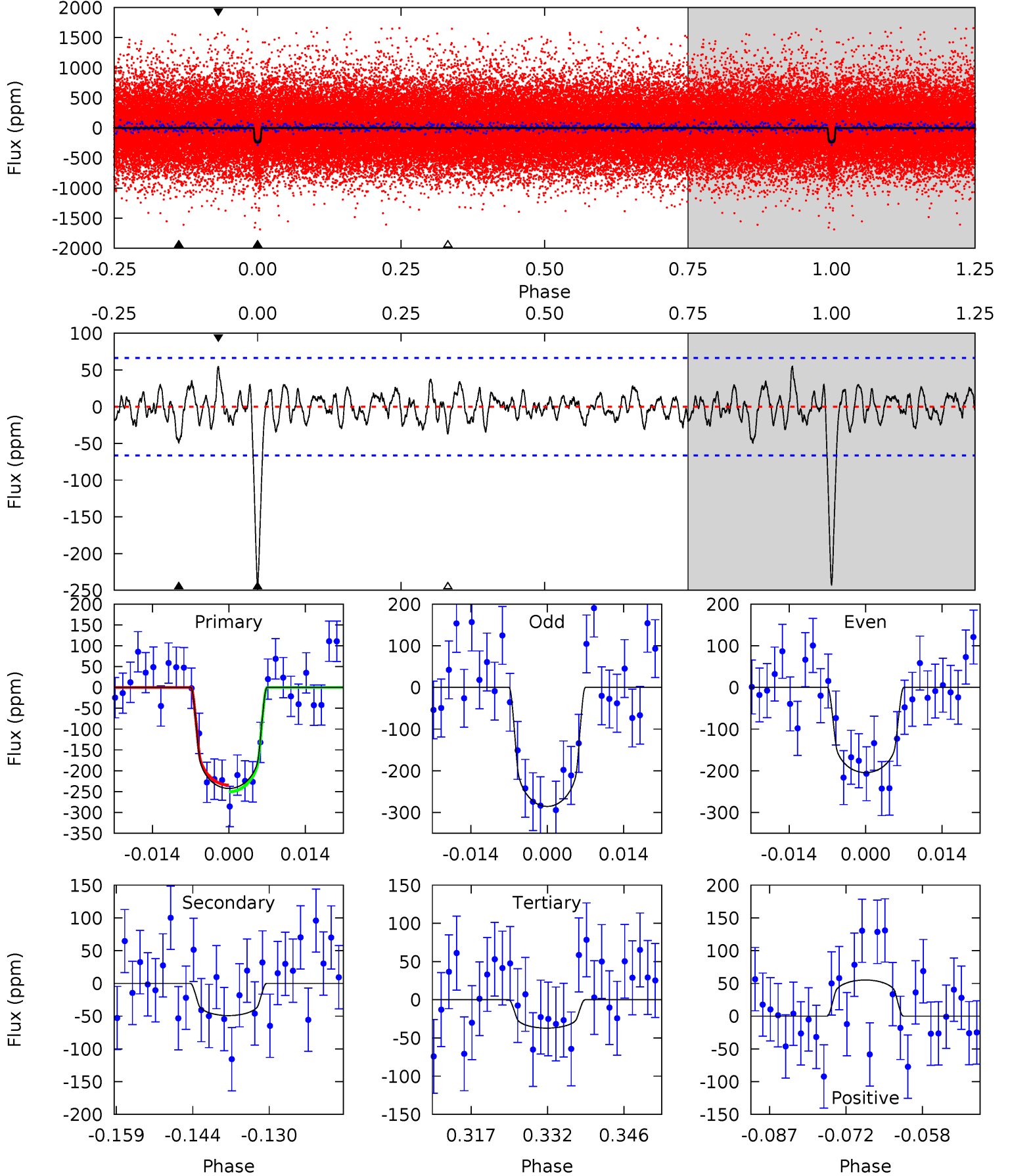
TCE 011014932-02 P= 15.055013 Days $T_0=144.575558$ (BKJD)



DV Model-Shift Uniqueness Test

011014932-02, P = 15.054898 Days, E = 129.525231 Days

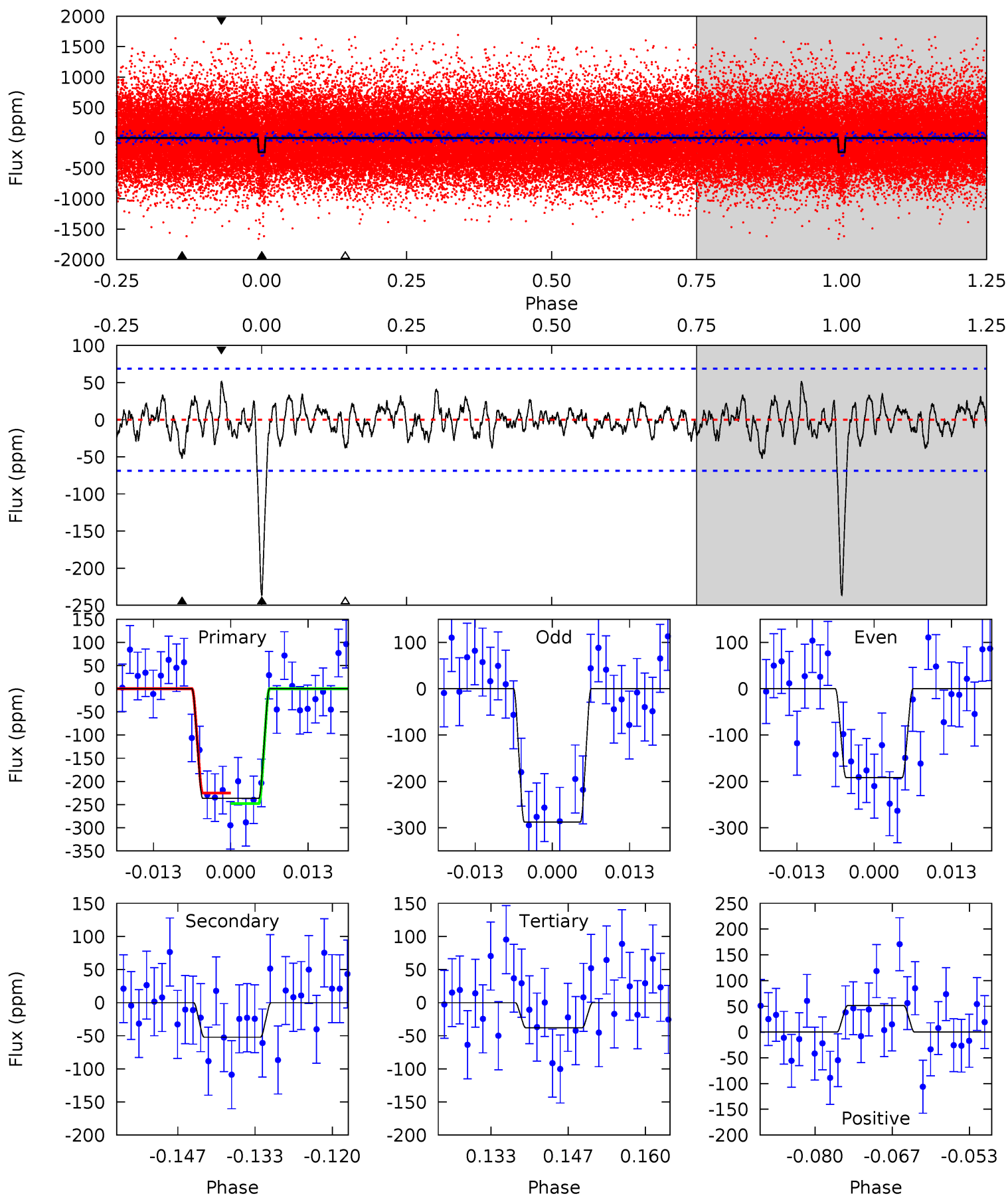
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.1	3.67	2.77	4.12	4.96	2.45	1.12	15.3	14.0	0.90	-0.45	3.03	1.04	0.19	0.60



Alt Model-Shift Uniqueness Test

011014932-02, P = 15.055013 Days, E = 129.520545 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.1	3.78	2.75	3.71	4.97	2.47	1.07	14.3	13.4	1.03	0.07	3.47	1.01	0.18	0.82



Stellar Parameters For KIC 011014932

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5616^{+101}_{-101}	$4.394^{+0.105}_{-0.105}$	$-0.020^{+0.150}_{-0.150}$	$0.999^{+0.142}_{-0.116}$	$0.903^{+0.068}_{-0.051}$	$1.275^{+0.560}_{-0.387}$
	+2%/-2%	+2%/-2%	+750%/-750%	+14%/-12%	+8%/-6%	+44%/-30%
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 011014932-02 / KOI 1432.02

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-49 ± 13	$1.76^{+0.90}_{-0.83}$	1020^{+45}_{-42}	3996^{+1142}_{-581}	115^{+288}_{-70}
Alt.	-52 ± 14	$1.73^{+0.92}_{-0.84}$	1016^{+41}_{-40}	4076^{+1117}_{-585}	127^{+330}_{-77}

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 $A_{obs} \gg 1.0$

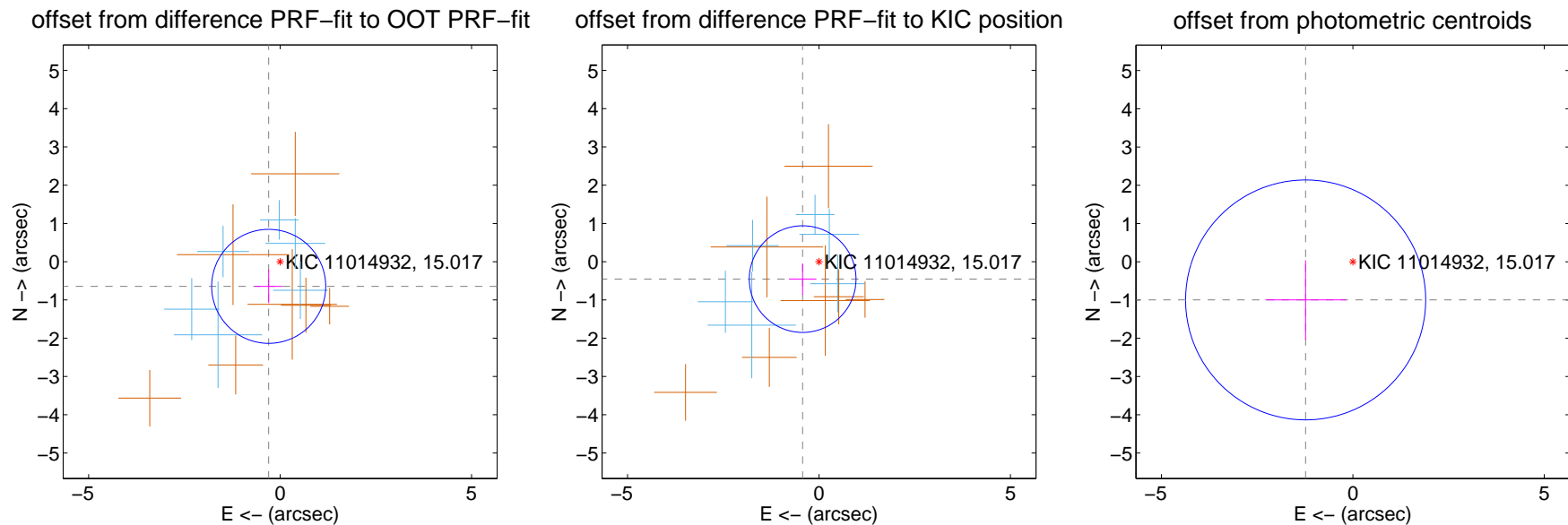
DV Centroid Data

Supplemental centroid analysis for 011014932-02. Kepler magnitude: 15.02. Transit SNR 14.10

There are 6 quarters with good PRF difference image offsets

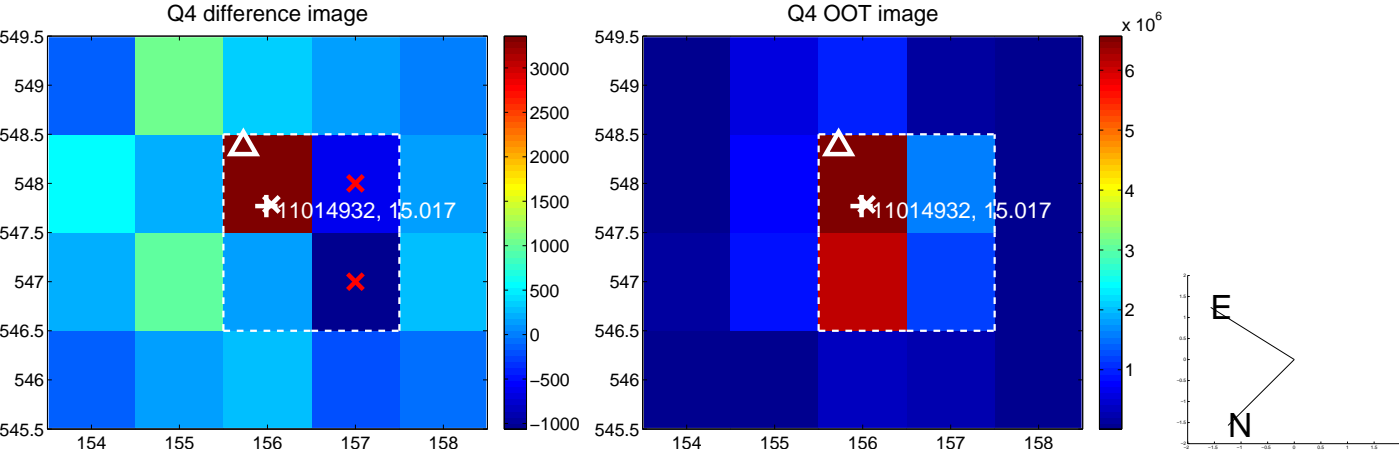
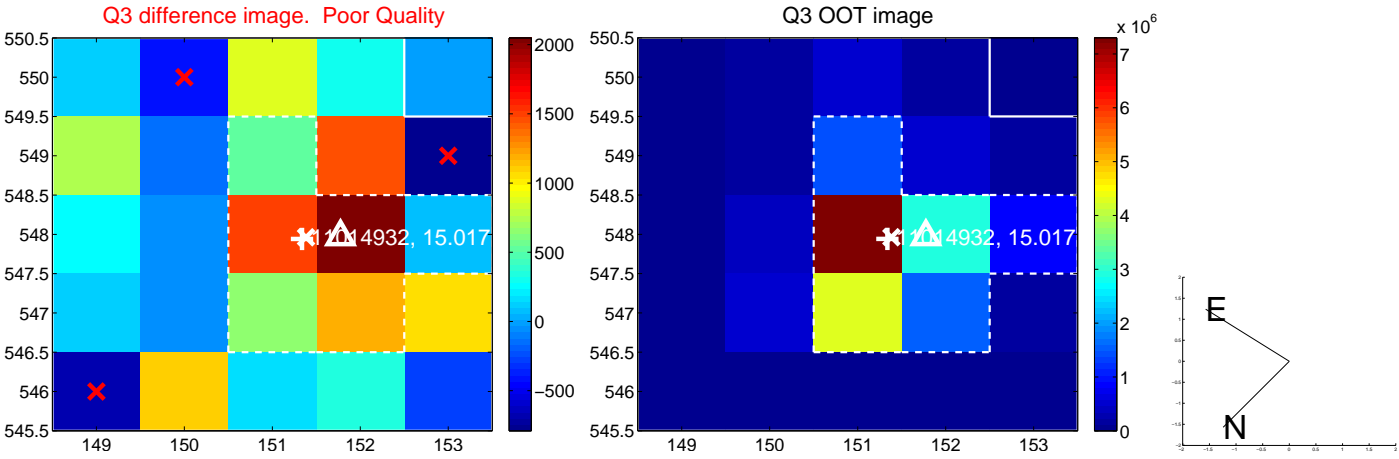
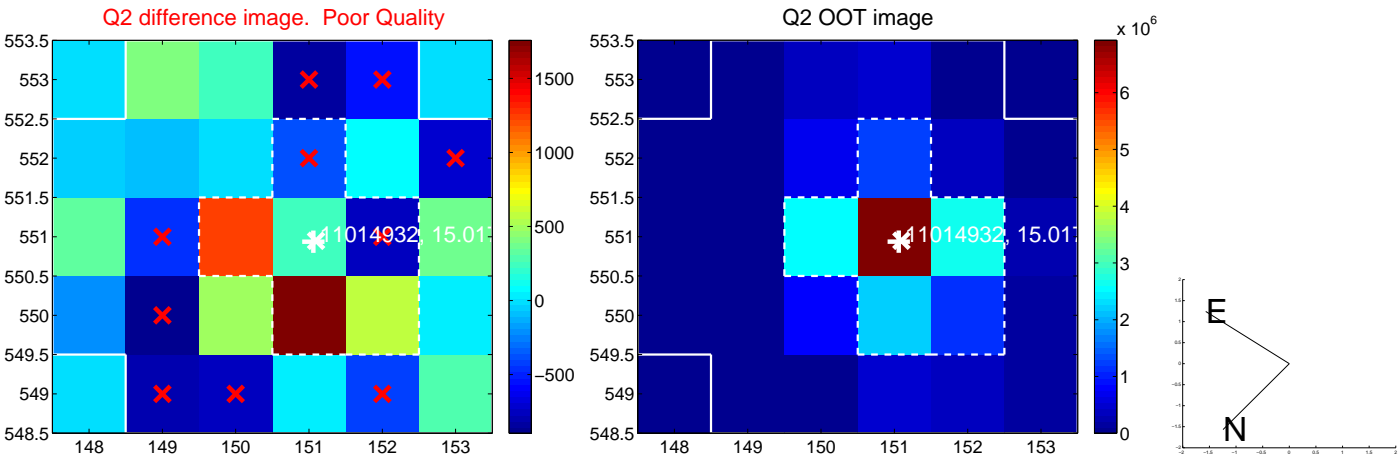
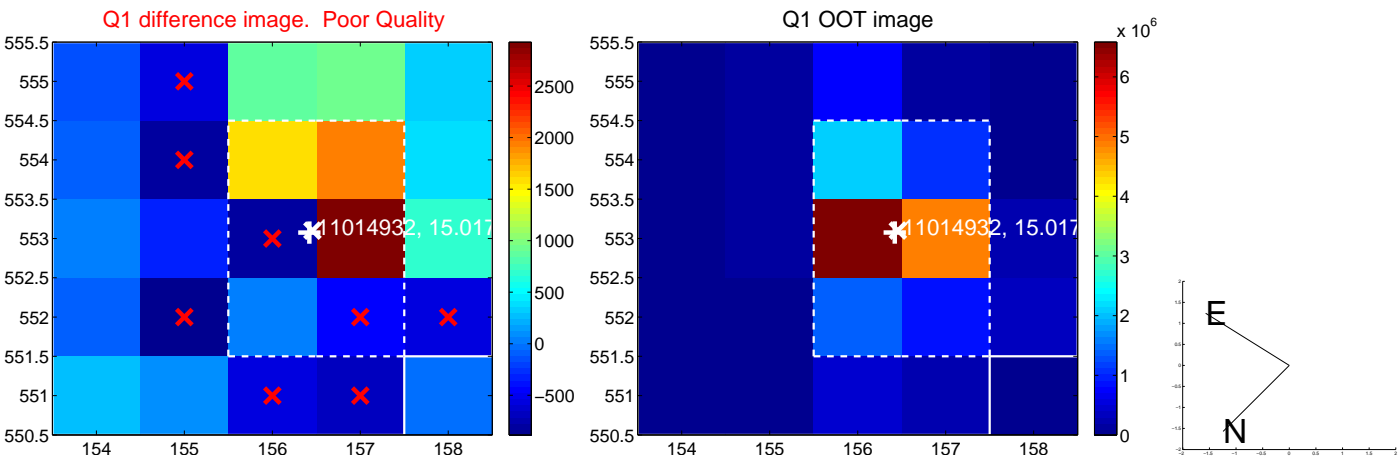
The direct PRF centroid is offset from the target star catalog position by about 0.27 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.710 ± 0.496	1.43	0.298 ± 0.362	-0.644 ± 0.437
PRF-fit source offset from KIC position	0.624 ± 0.464	1.34	0.427 ± 0.358	-0.455 ± 0.408
photometric centroid source offset	1.59 ± 1.04	1.52	1.23 ± 1.05	-1.00 ± 1.04

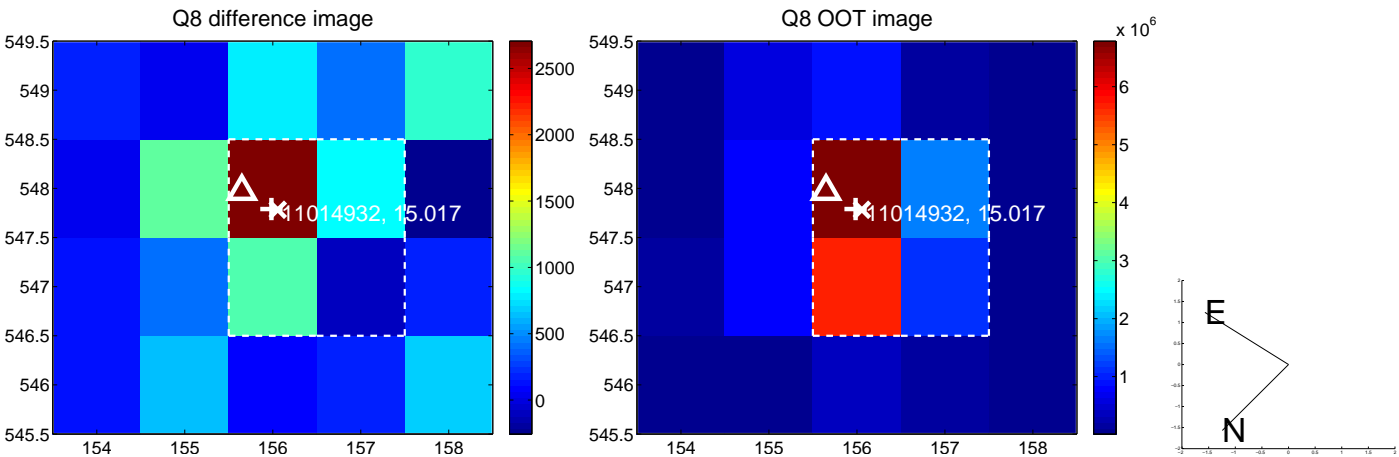
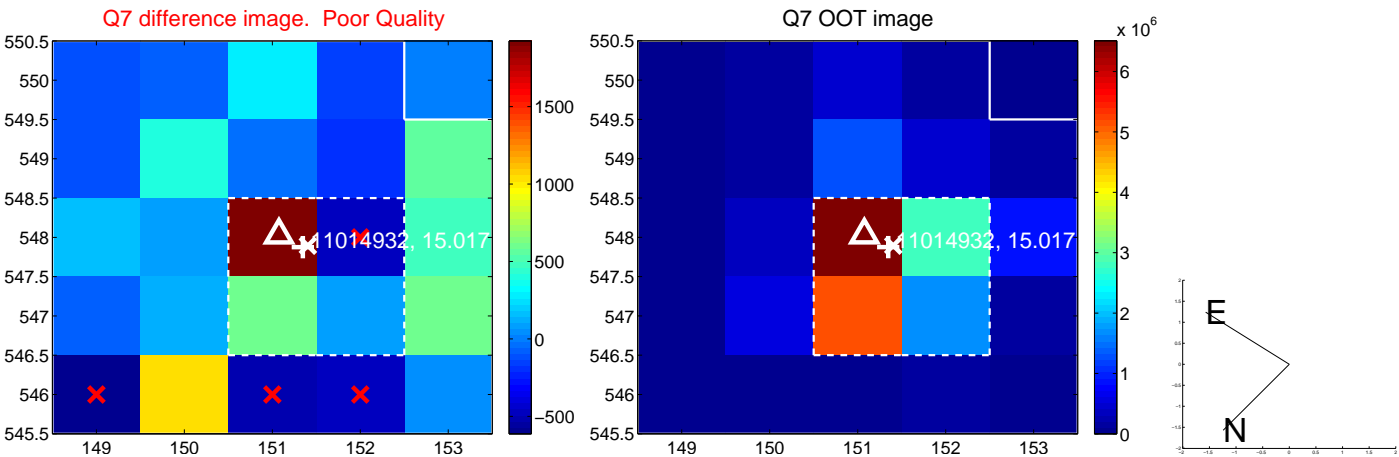
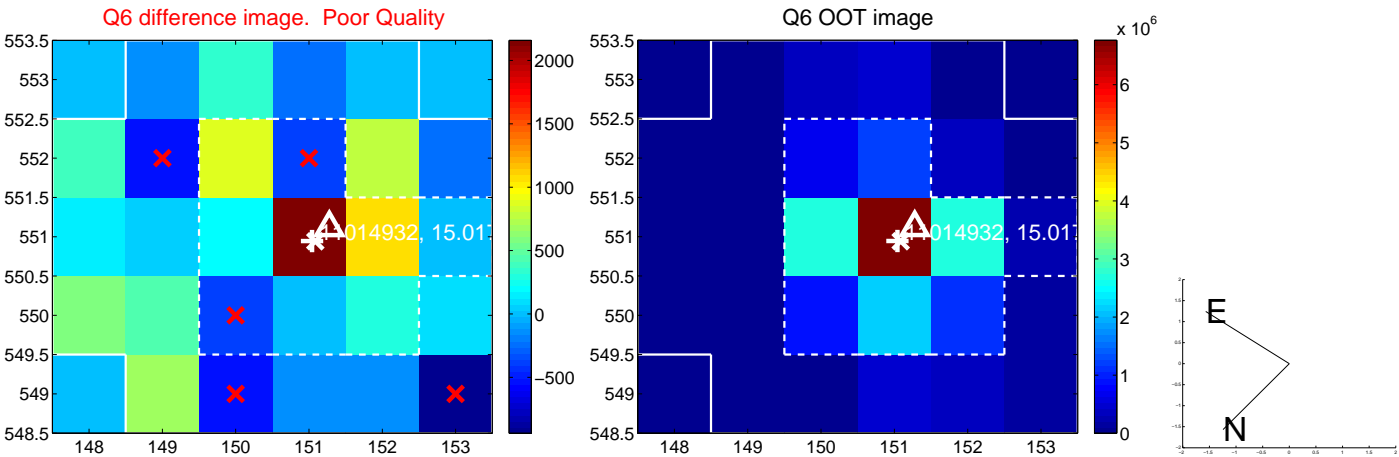
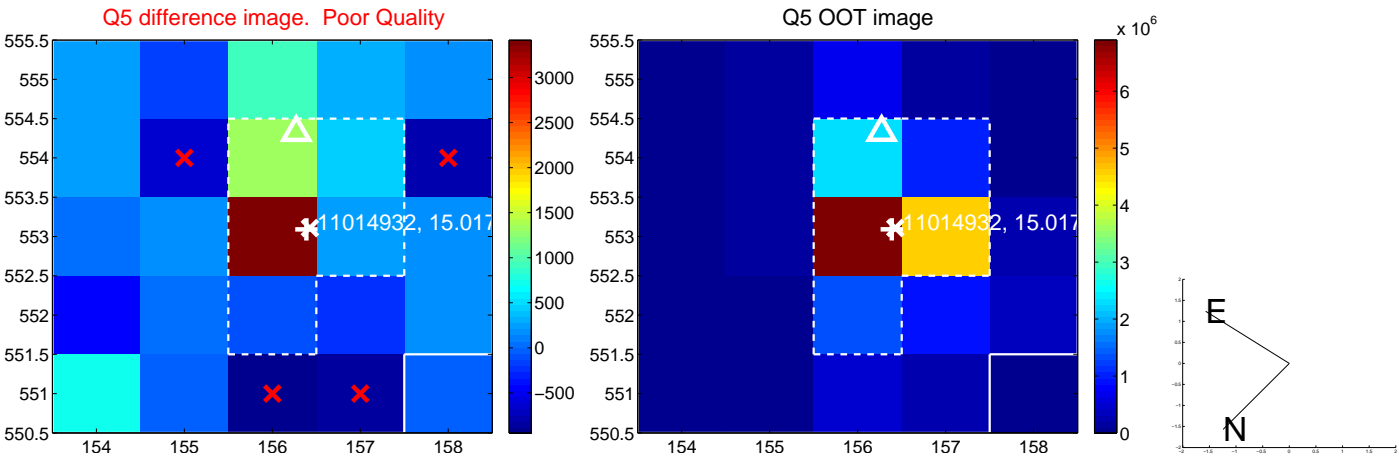


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

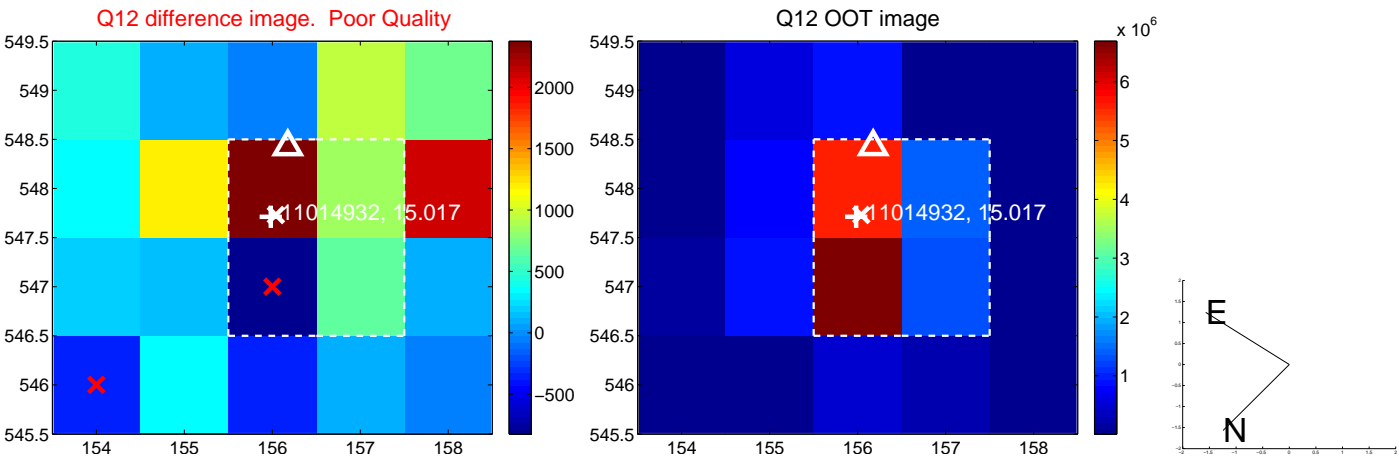
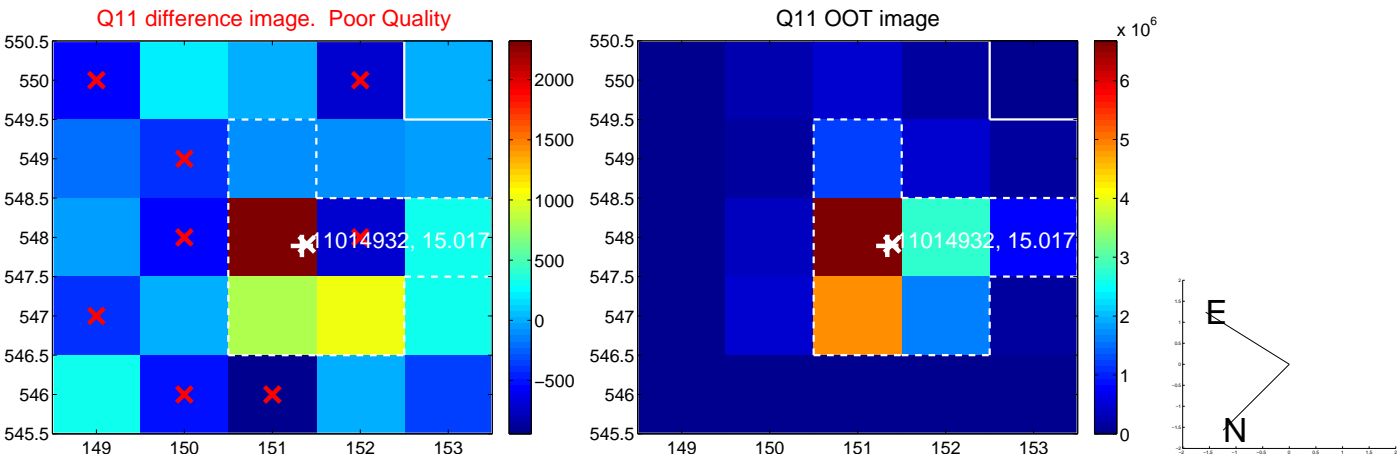
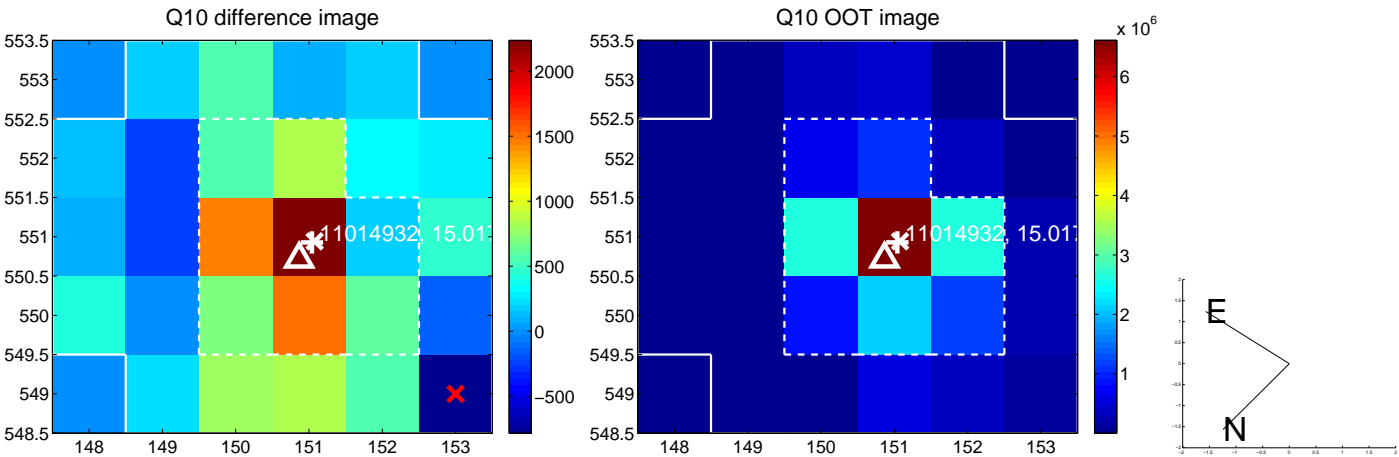
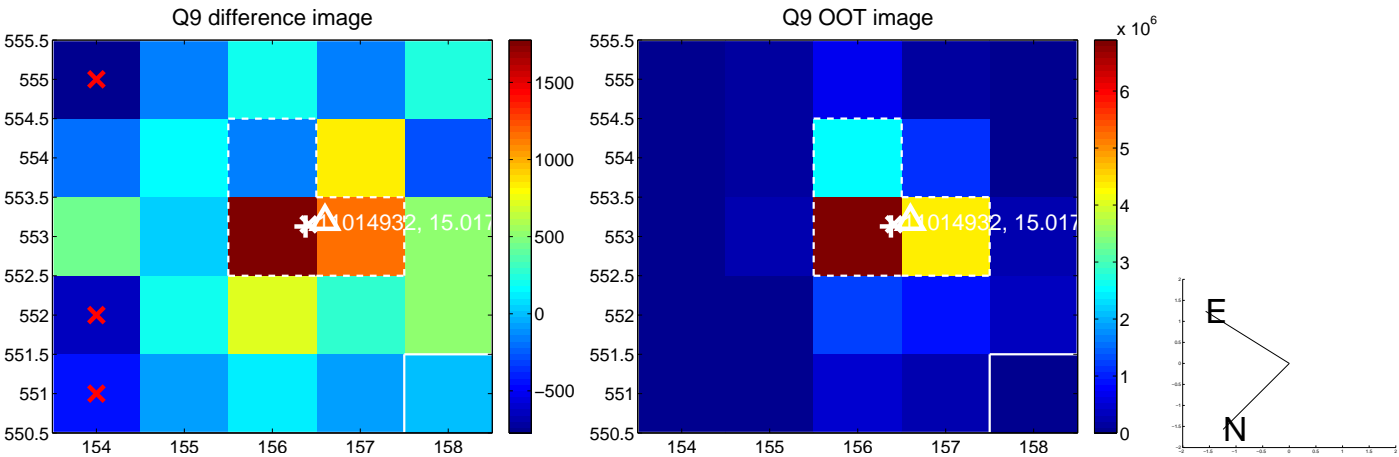
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



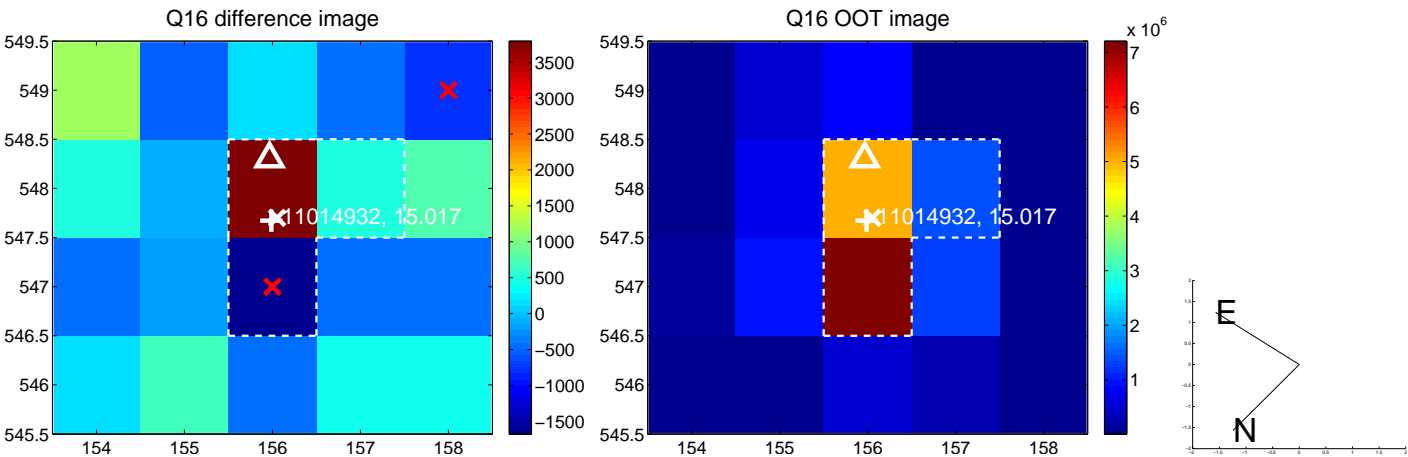
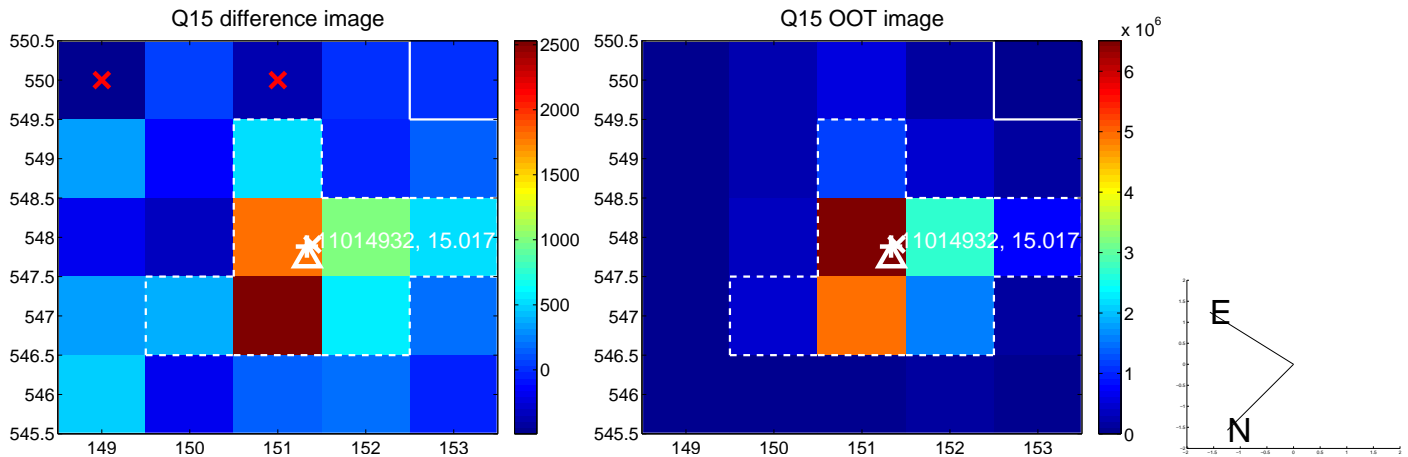
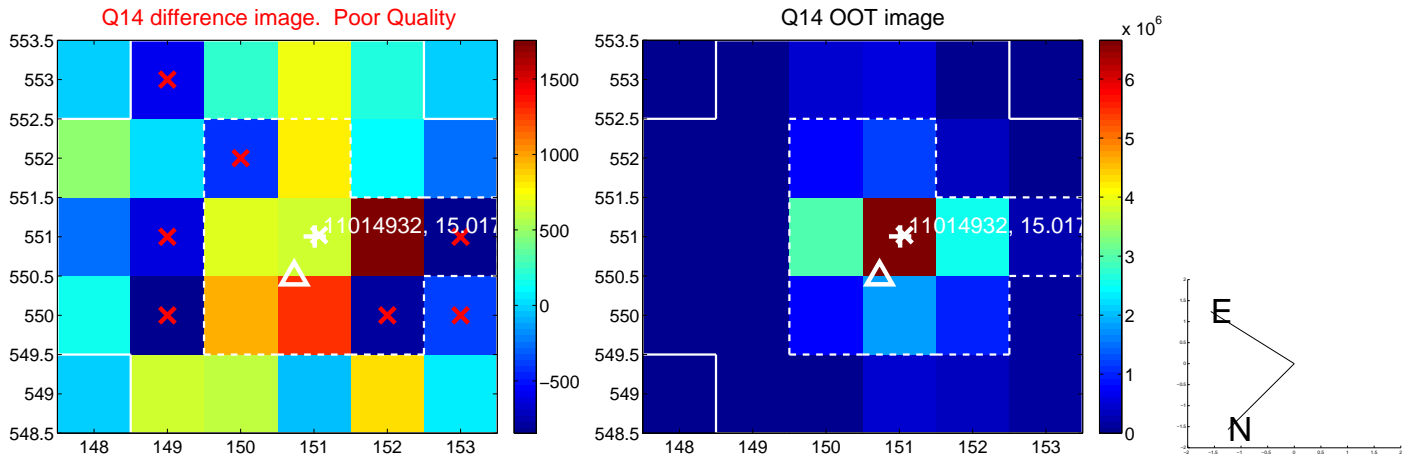
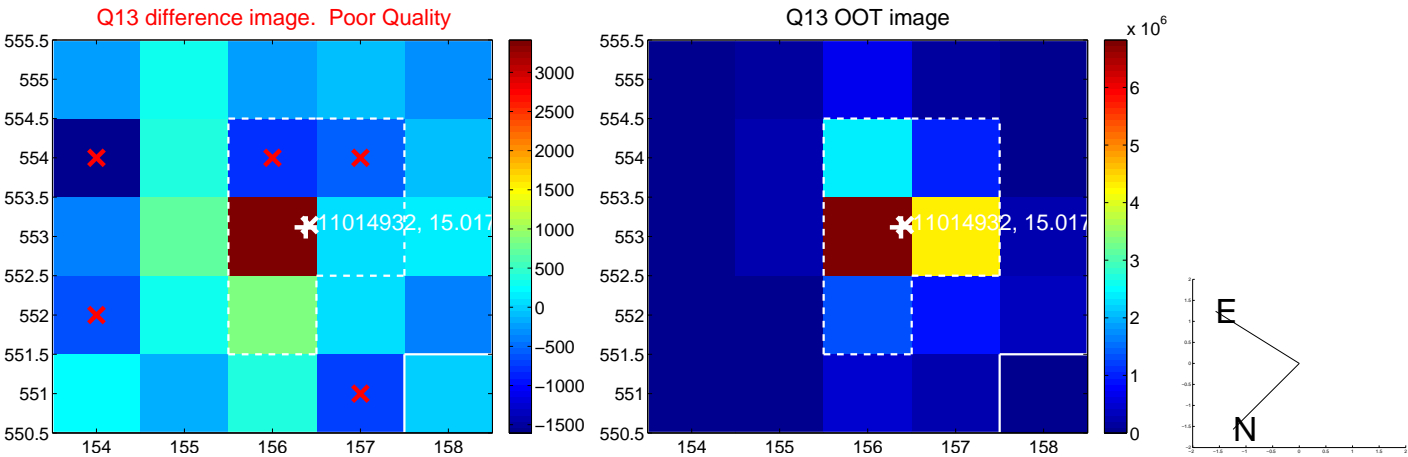
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



This plot does not exist for this TCE.

KIC 011014932

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})
011014932-01	OBS	1432.01	6.885955	131.521025	412.6	3.877	29.0	31.4	1.00	5616	2.55	189.83
011014932-02	OBS	1432.02	15.054898	144.580129	242.0	4.772	14.5	14.1	1.00	5616	1.76	66.90
011014932-03	OBS	1432.03	2.927214	133.826616	156.6	2.651	14.1	15.5	1.00	5616	1.46	593.89
011014932-04	OBS	1432.04	38.285426	143.307991	325.2	5.897	11.1	12.1	1.00	5616	2.02	19.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011014932-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-03	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-04	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.

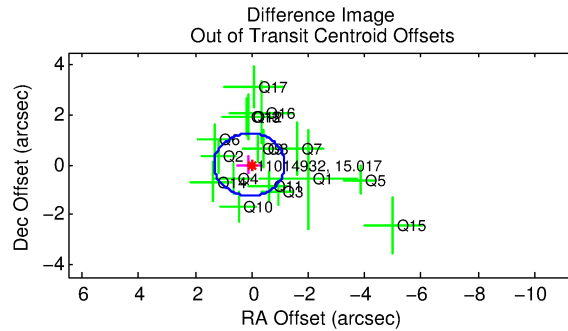
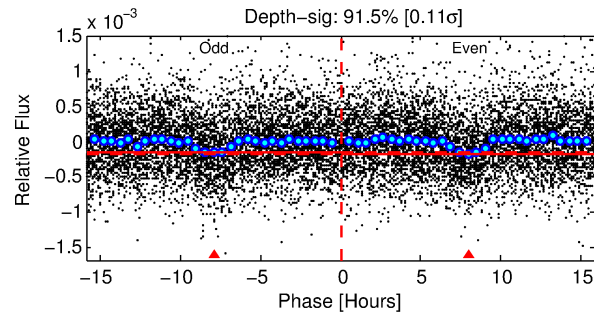
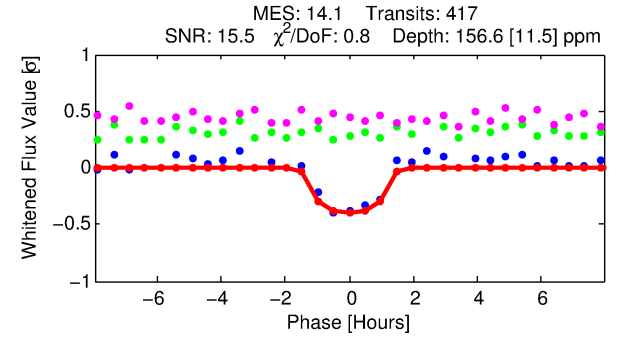
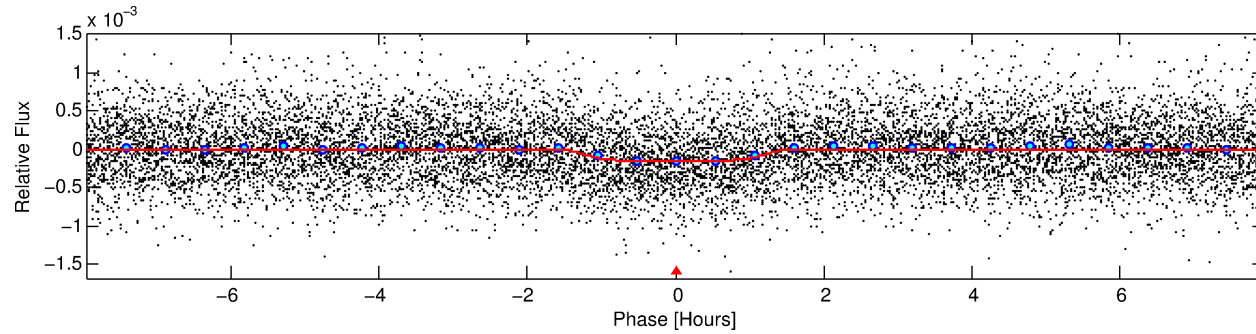
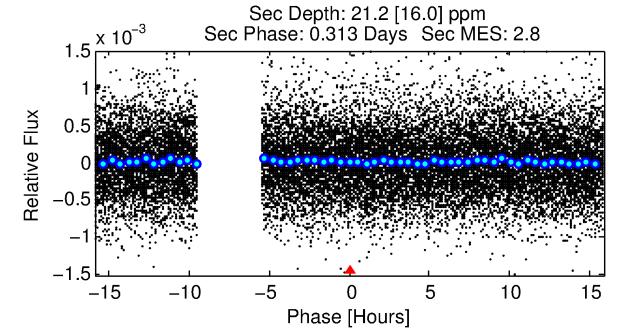
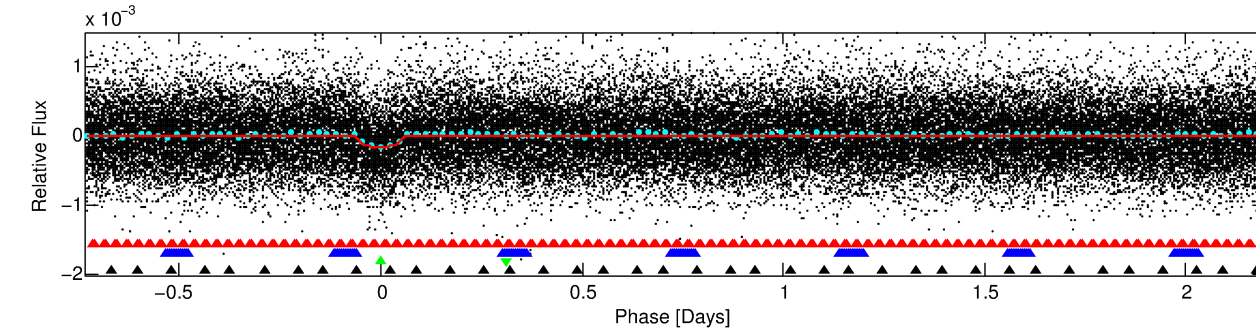
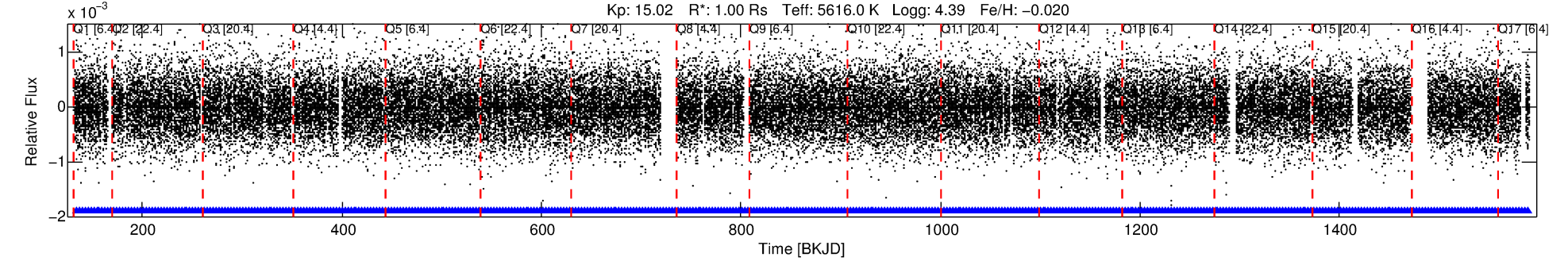
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011014932-03

No Significant Match Found

DV One-Page Summary

KIC: 11014932 Candidate: 3 of 4 Period: 2.927 d
KOI: K01432.03 Name: Kepler-299b Corr: 0.993



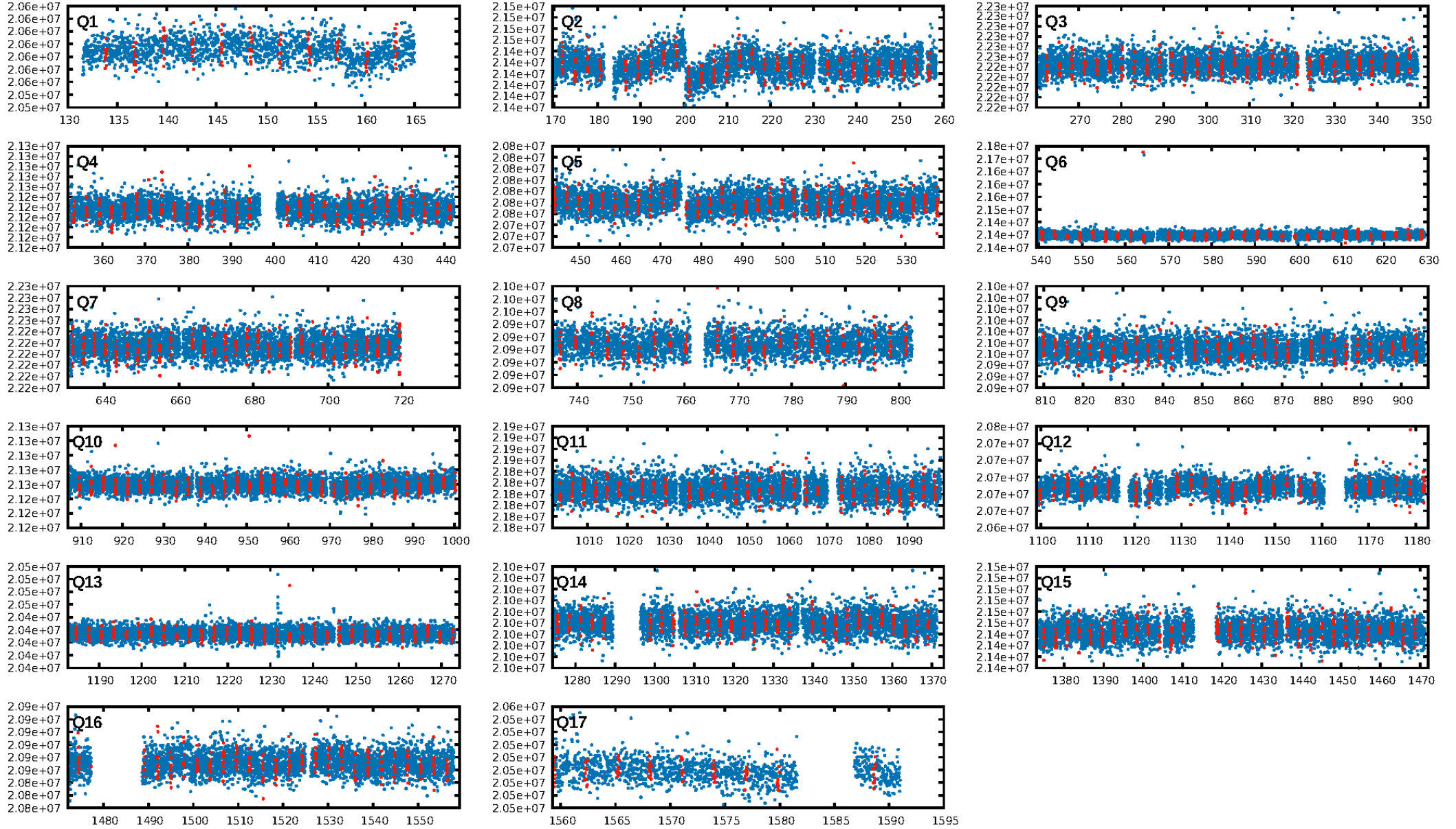
DV Fit Results:

Period = 2.92721 [0.00001] d
Epoch = 133.8266 [0.0029] BKJD
Rp/R* = 0.0134 [0.0080]
a/R* = 4.40 [11.33]
b = 0.88 [0.74]
Seff = 593.89 [118.98]
Teff = 1259 [63] K
Rp = 1.46 [0.90] Re
a = 0.0387 [0.0048] AU
Ag = 8.18 [11.68] [0.61σ]
Teffp = 3291 [1166] K [1.74σ]

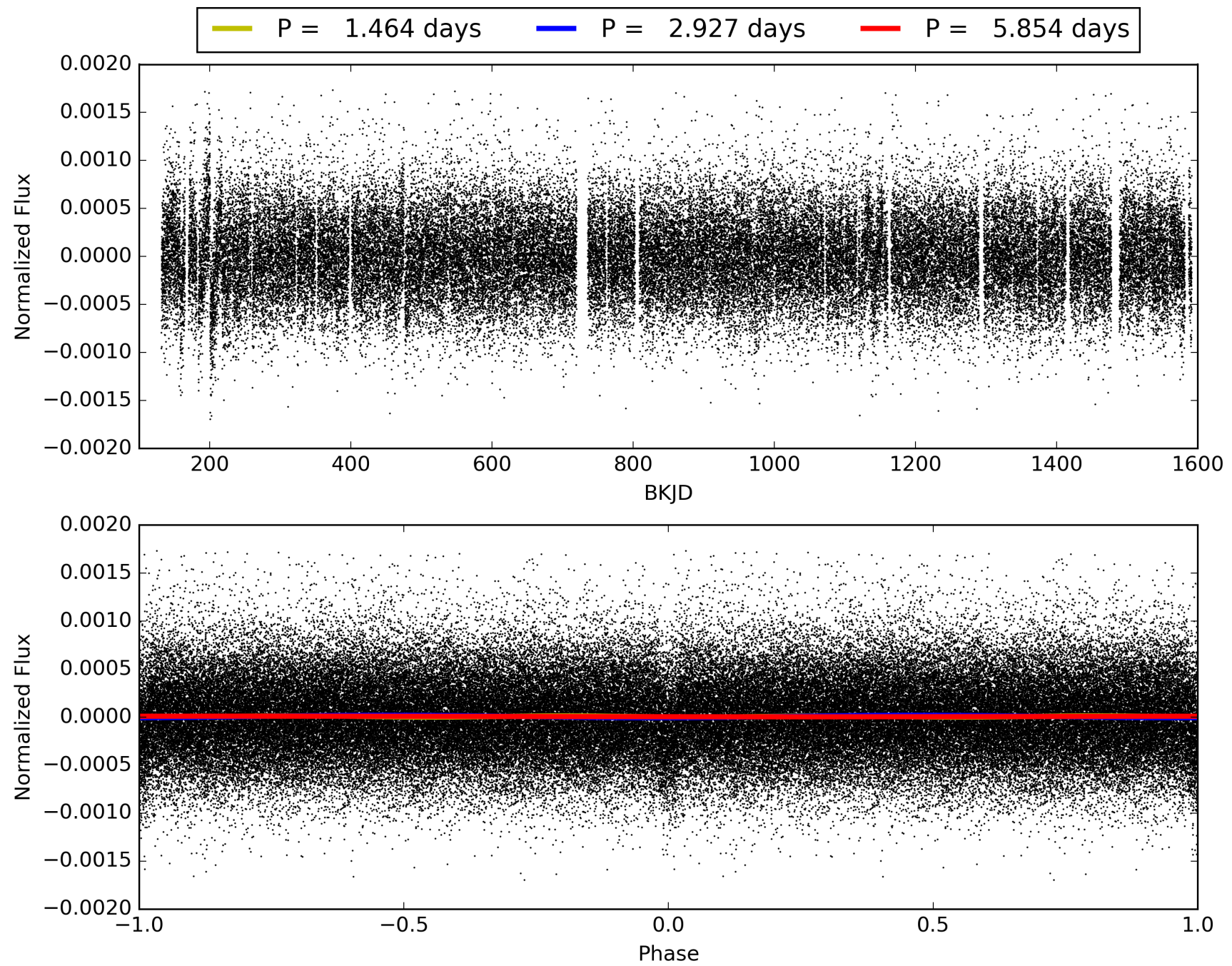
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [20.23σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.58e-46
RollingBand-fgt: 1.00 [397/397]
GhostDiagnostic-chr: 3.286
Centroid-sig: 0.0%
Centroid-so: 3.481 arcsec [3.60σ]
OotOffset-rm: 0.086 arcsec [0.21σ]
KicOffset-rm: 0.260 arcsec [0.55σ]
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]

TCE 011014932-03, PDC Light Curves

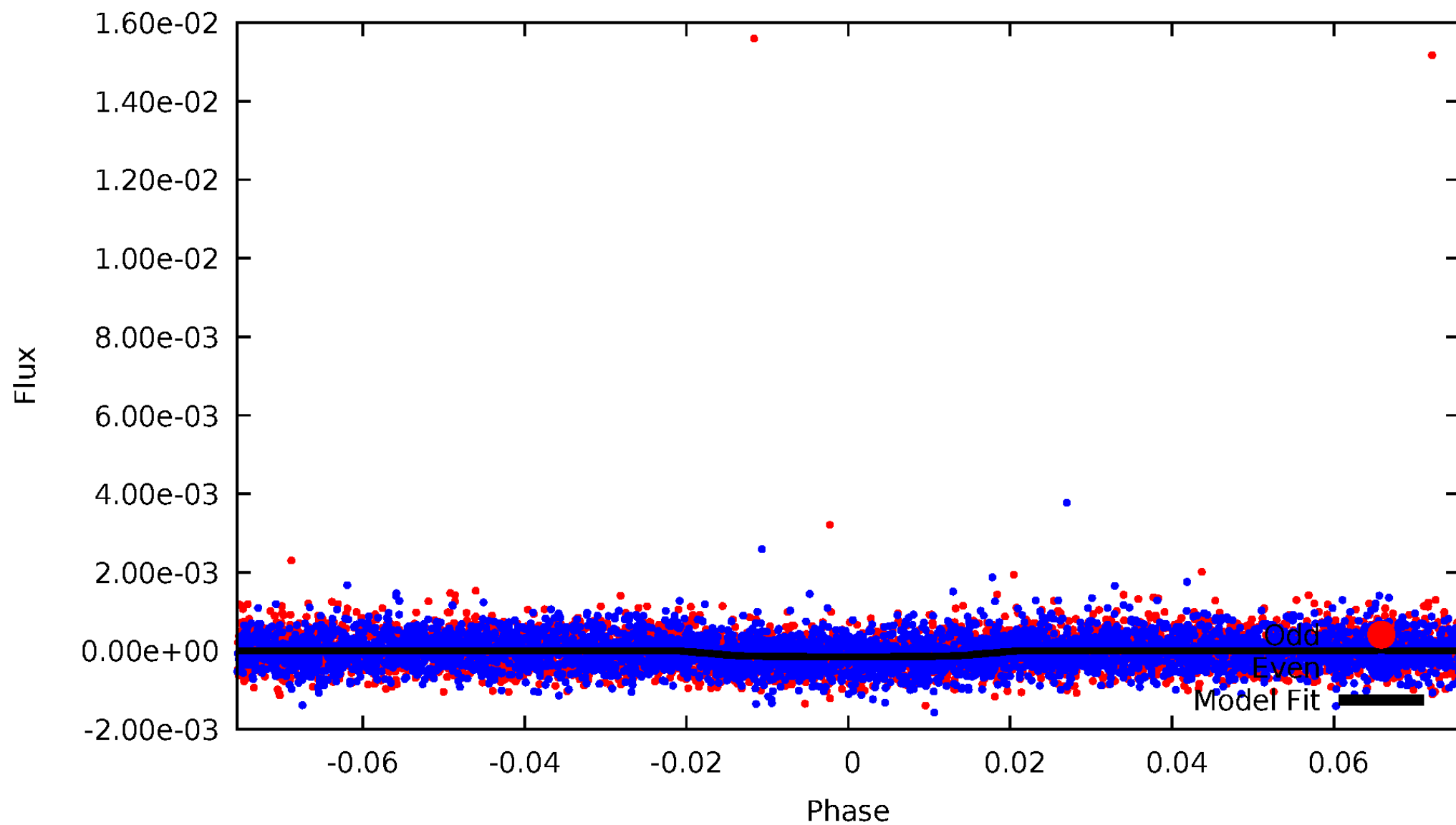


TCE 011014932-03



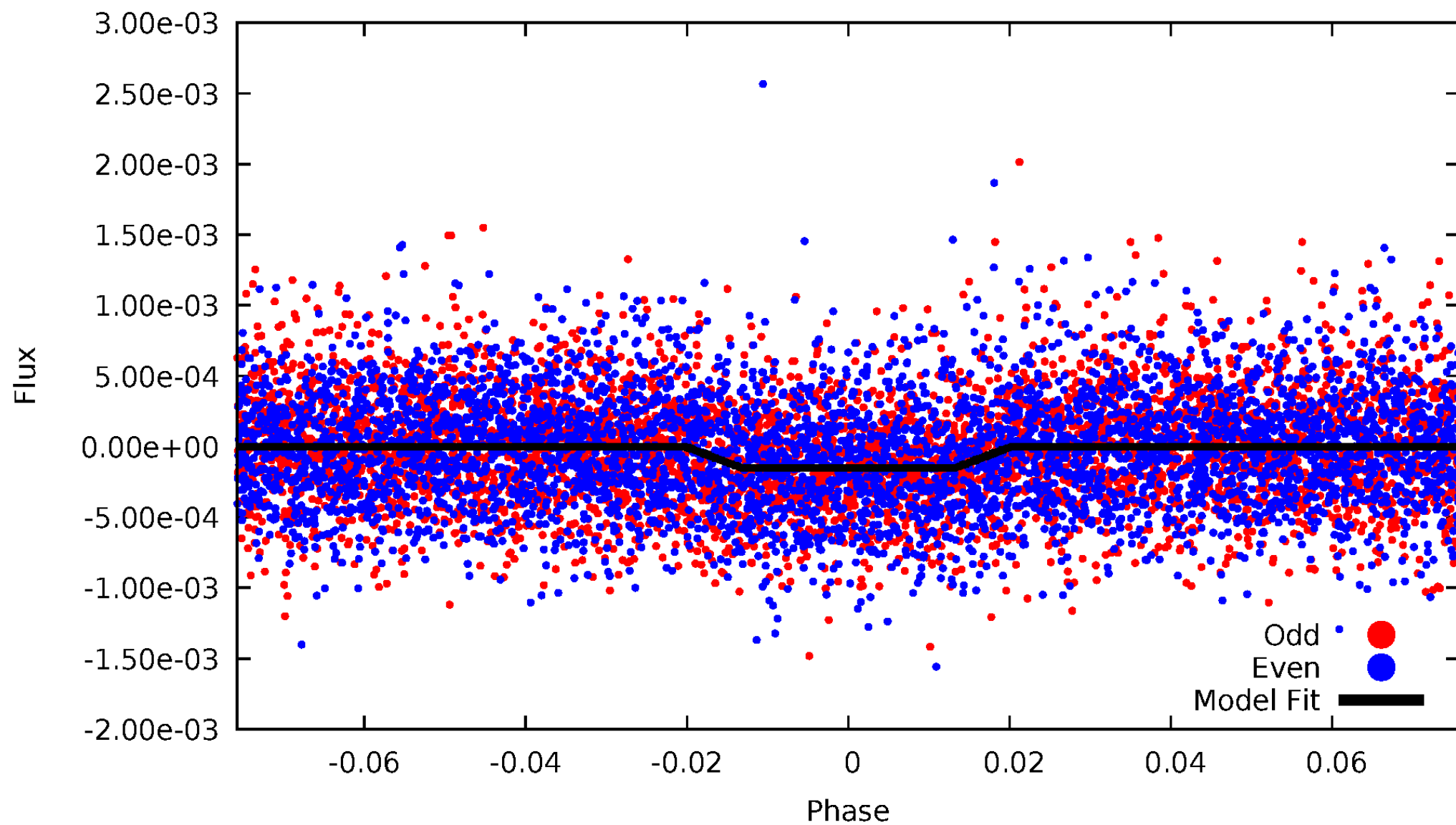
DV Odd/Even

TCE 011014932-03

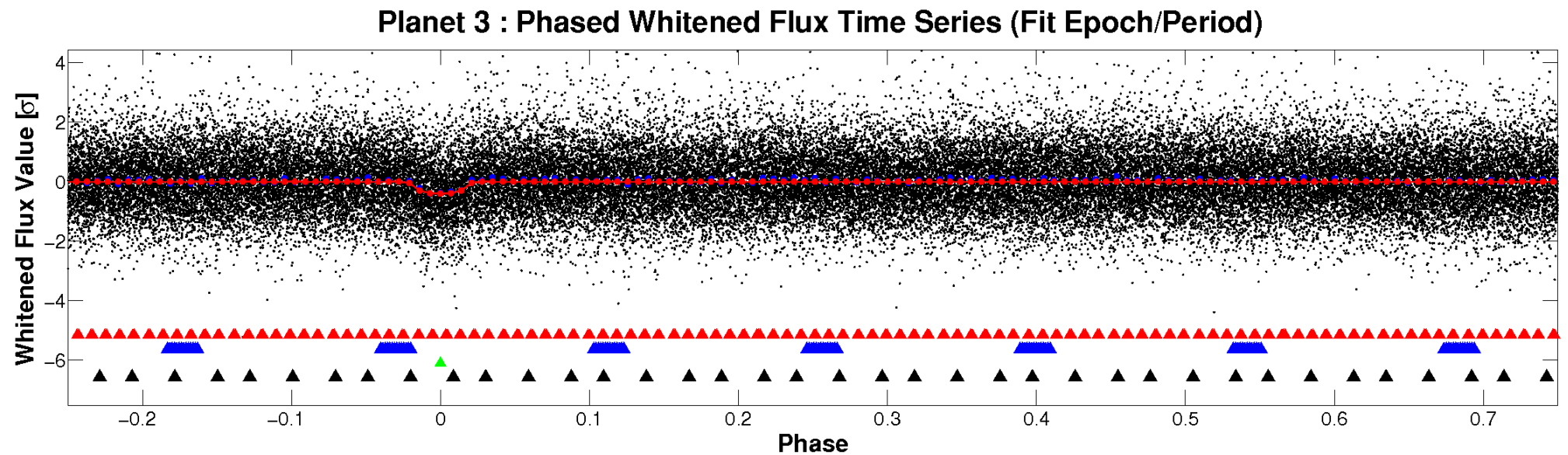
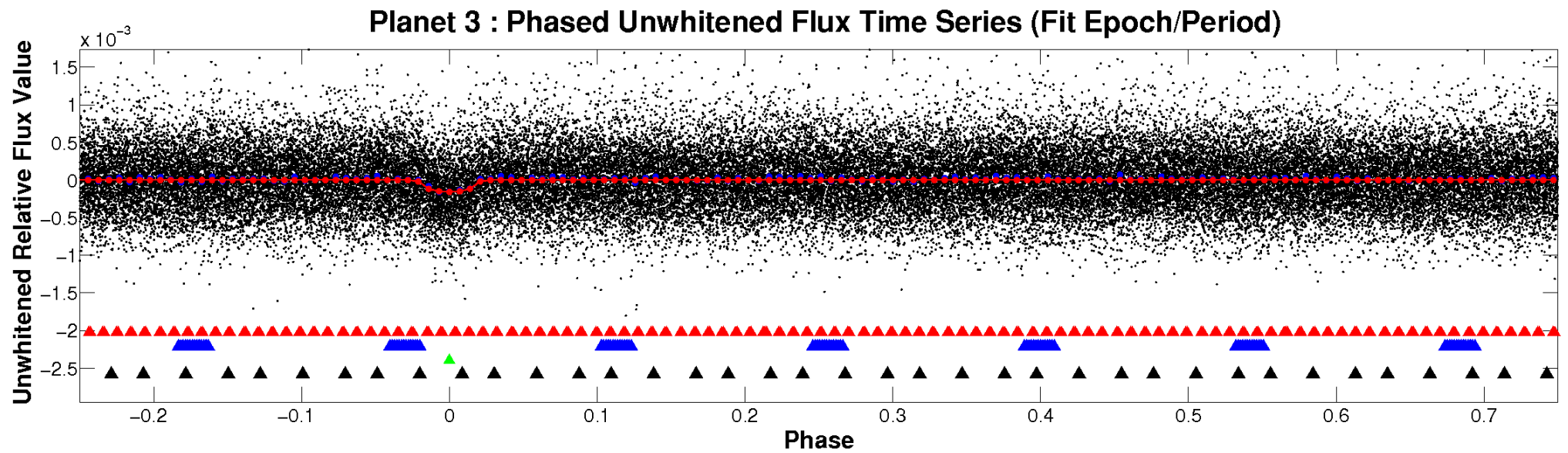


ALT Odd/Even

TCE 011014932-03

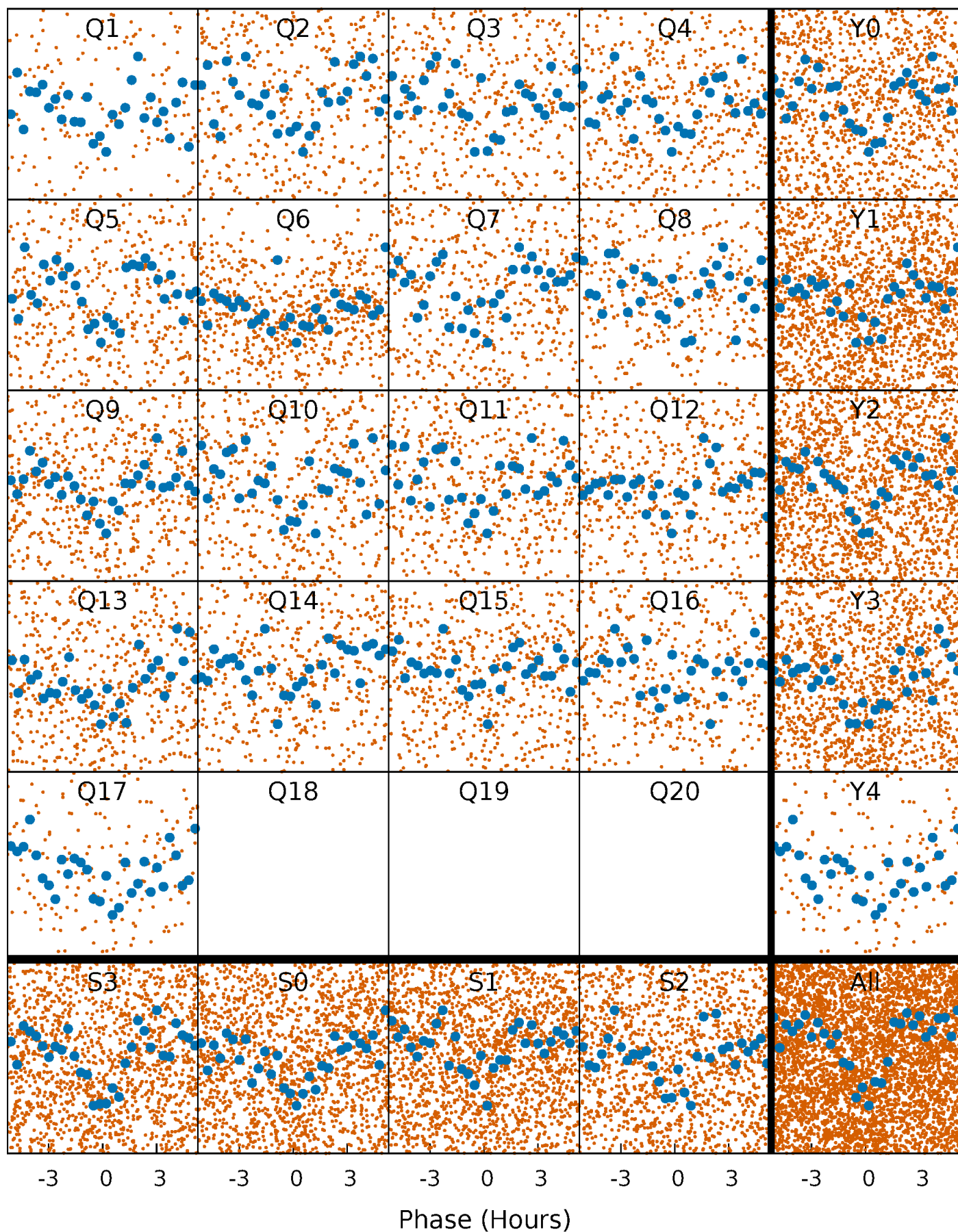


Non-Whitened Vs. Whitened Light Curve



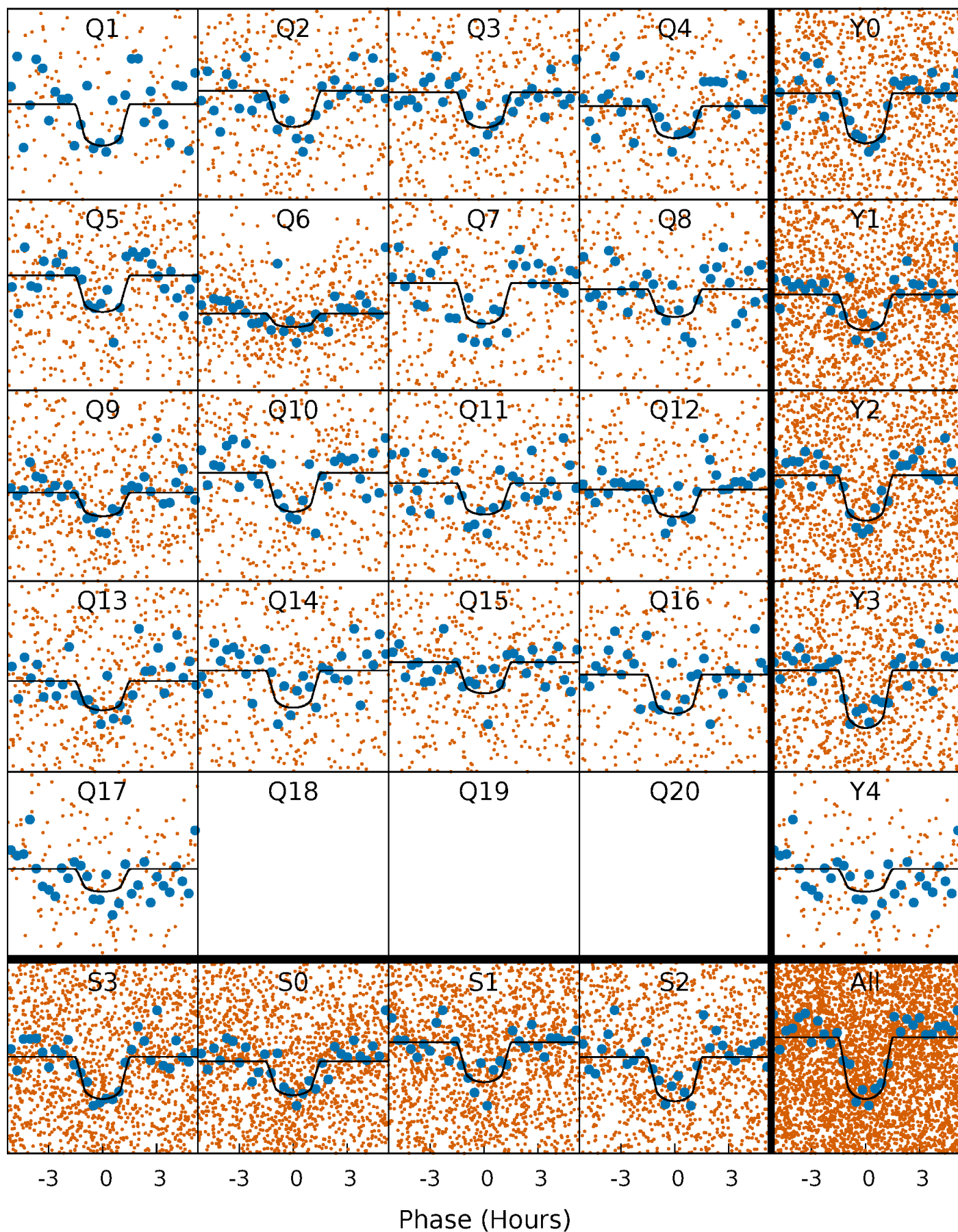
PDC Quarter-Phased Transit Curves

TCE 011014932-03 P= 2.927214 Days $T_0=133.826616$ (BKJD)



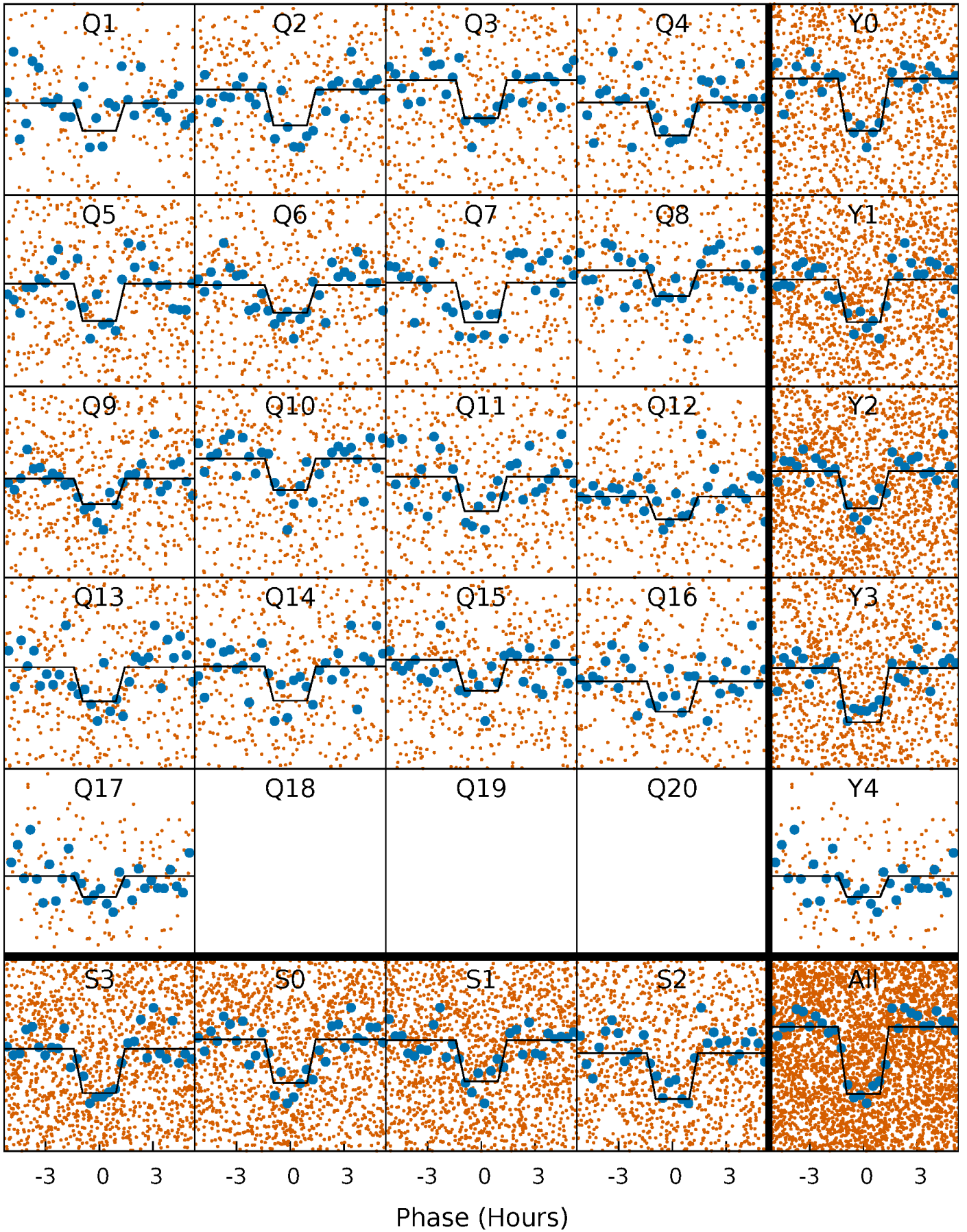
DV Quarter-Phased Transit Curves

TCE 011014932-03 P= 2.927214 Days $T_0=133.826616$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

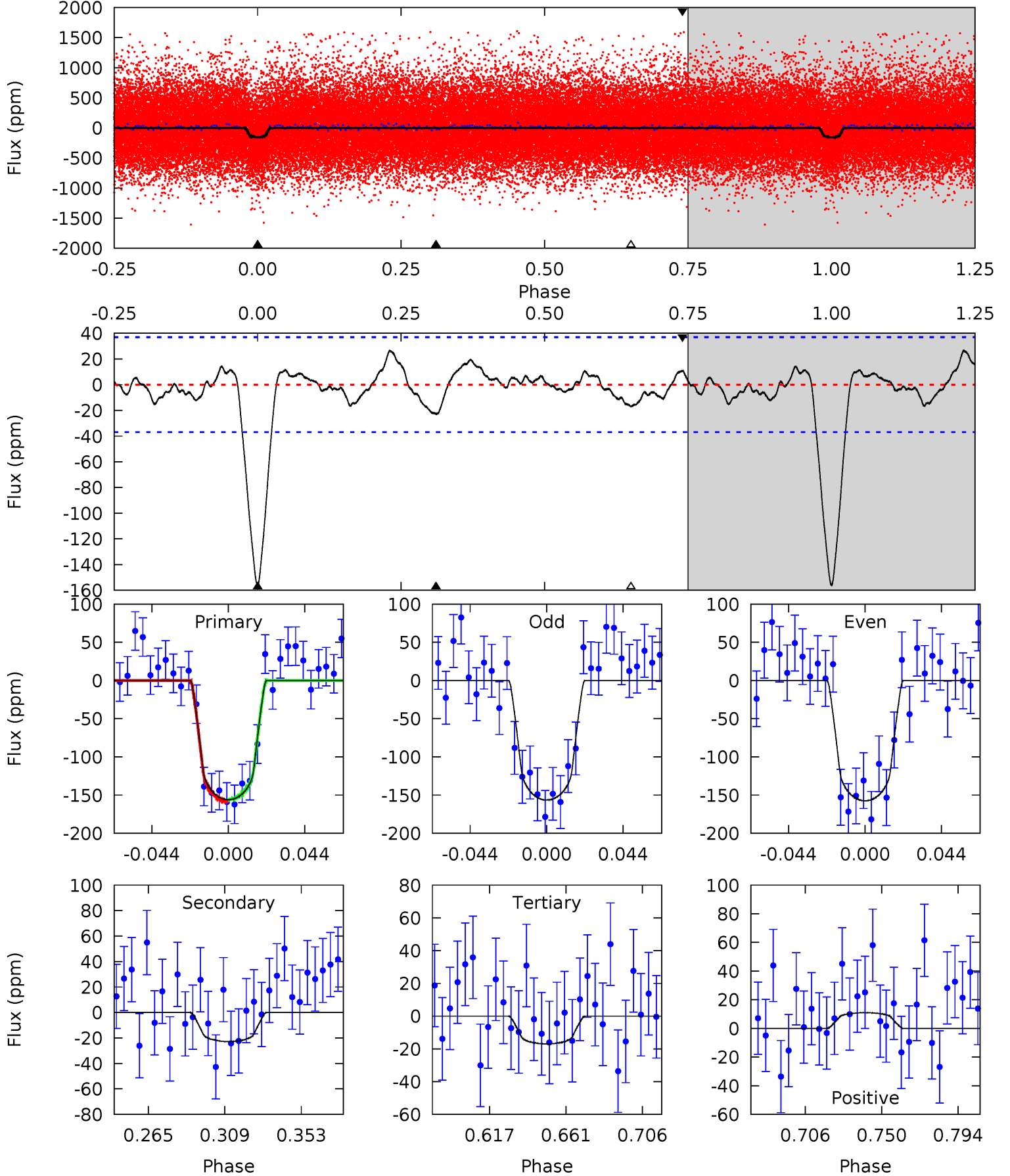
TCE 011014932-03 P= 2.927226 Days $T_0=133.823332$ (BKJD)



DV Model-Shift Uniqueness Test

011014932-03, P = 2.927214 Days, E = 130.899402 Days

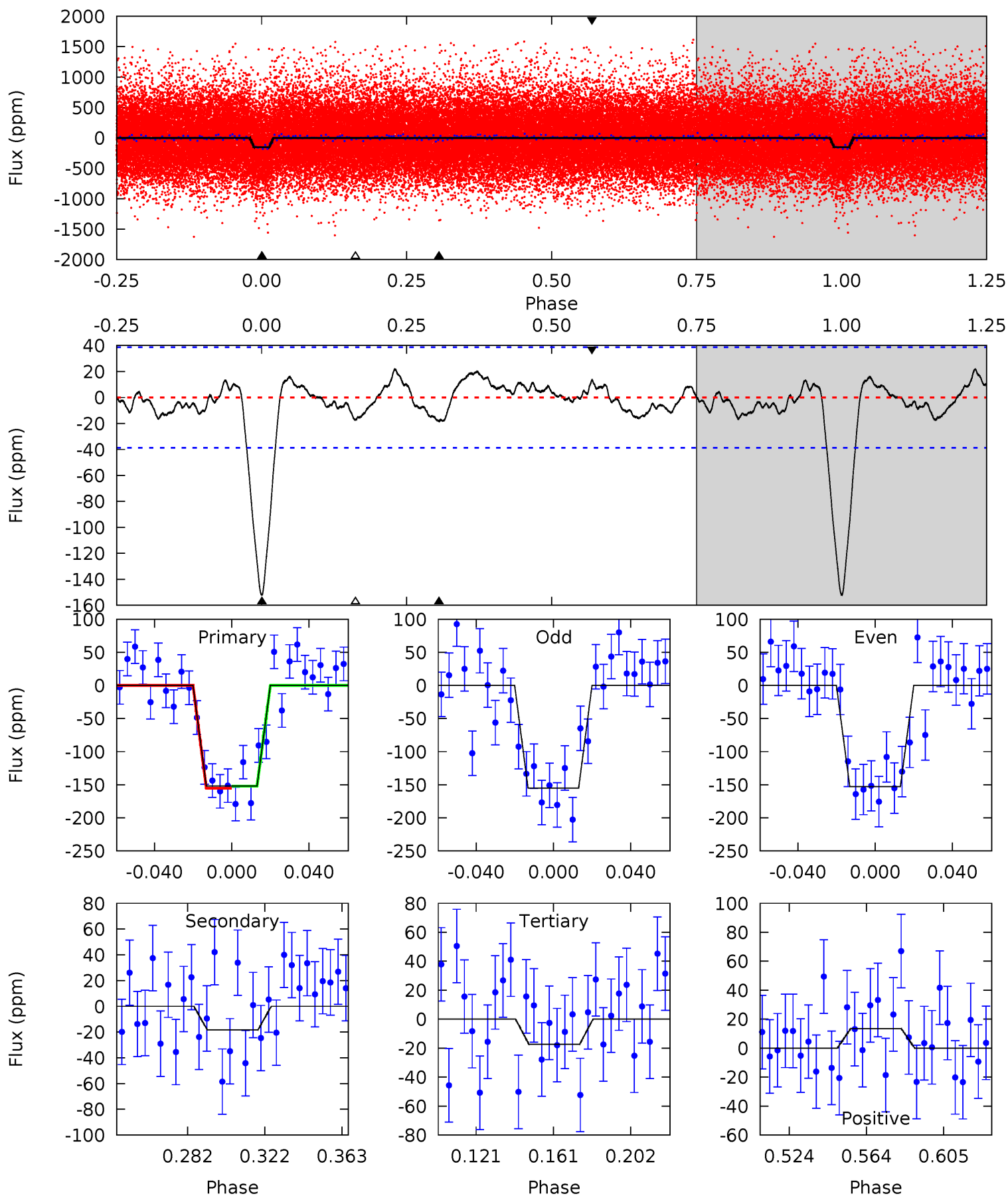
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.0	2.92	2.17	1.40	4.73	2.01	1.12	17.8	18.6	0.75	1.52	0.07	0.91	0.15	0.18



Alt Model-Shift Uniqueness Test

011014932-03, P = 2.927226 Days, E = 130.896106 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.7	2.25	2.13	1.66	4.75	2.05	1.12	16.5	17.0	0.12	0.60	0.13	1.05	0.13	0.20



Stellar Parameters For KIC 011014932

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5616^{+101}_{-101}	$4.394^{+0.105}_{-0.105}$	$-0.020^{+0.150}_{-0.150}$	$0.999^{+0.142}_{-0.116}$	$0.903^{+0.068}_{-0.051}$	$1.275^{+0.560}_{-0.387}$
	+2%/-2%	+2%/-2%	+750%/-750%	+14%/-12%	+8%/-6%	+44%/-30%
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 011014932-03 / KOI 1432.03

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-23 ± 8	$1.51^{+0.87}_{-0.77}$	1762^{+69}_{-68}	3636^{+1158}_{-510}	$7.567^{+27.403}_{-4.589}$
Alt.	-18 ± 8	$1.38^{+0.87}_{-0.78}$	1758^{+78}_{-65}	3625^{+1367}_{-636}	$7.398^{+36.935}_{-5.082}$

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 $A_{obs} \gg 1.0$

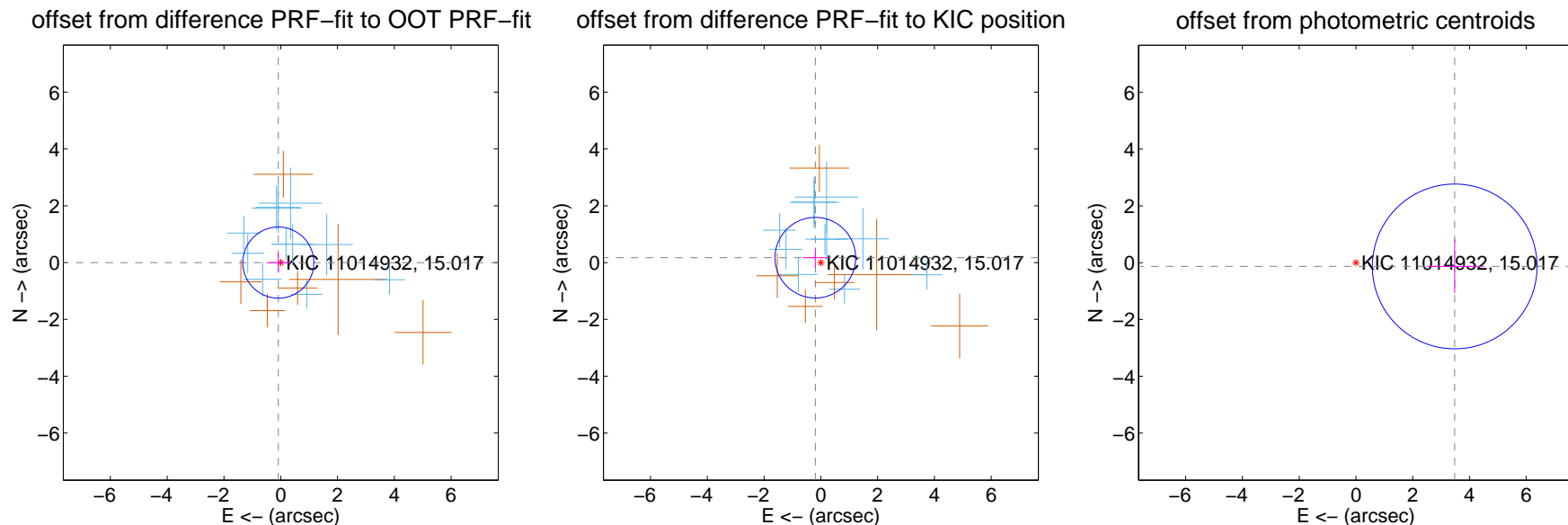
DV Centroid Data

Supplemental centroid analysis for 011014932-03. Kepler magnitude: 15.02. Transit SNR 15.53

There are 11 quarters with good PRF difference image offsets

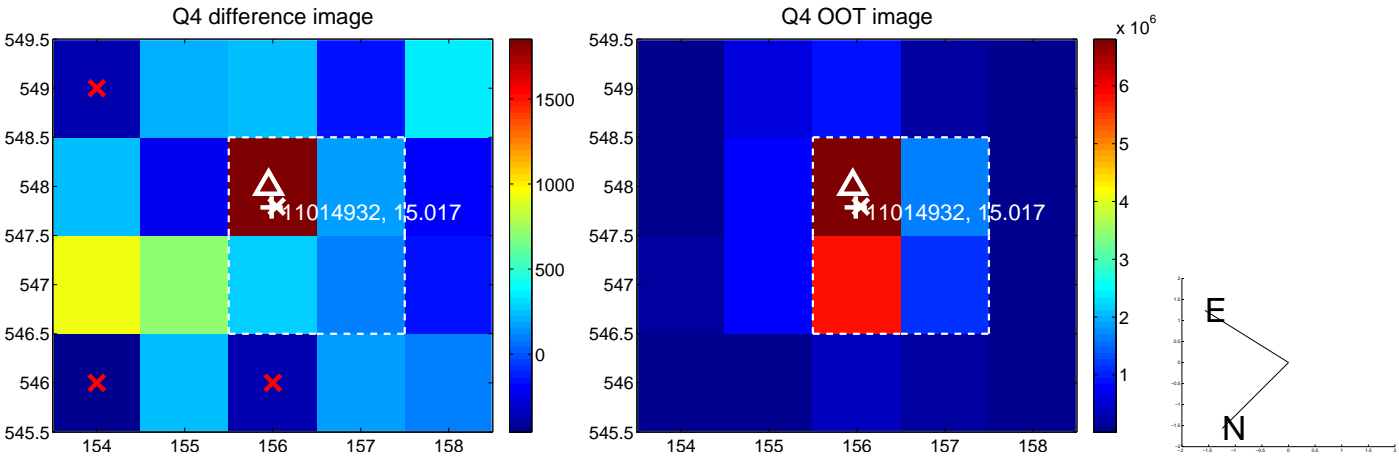
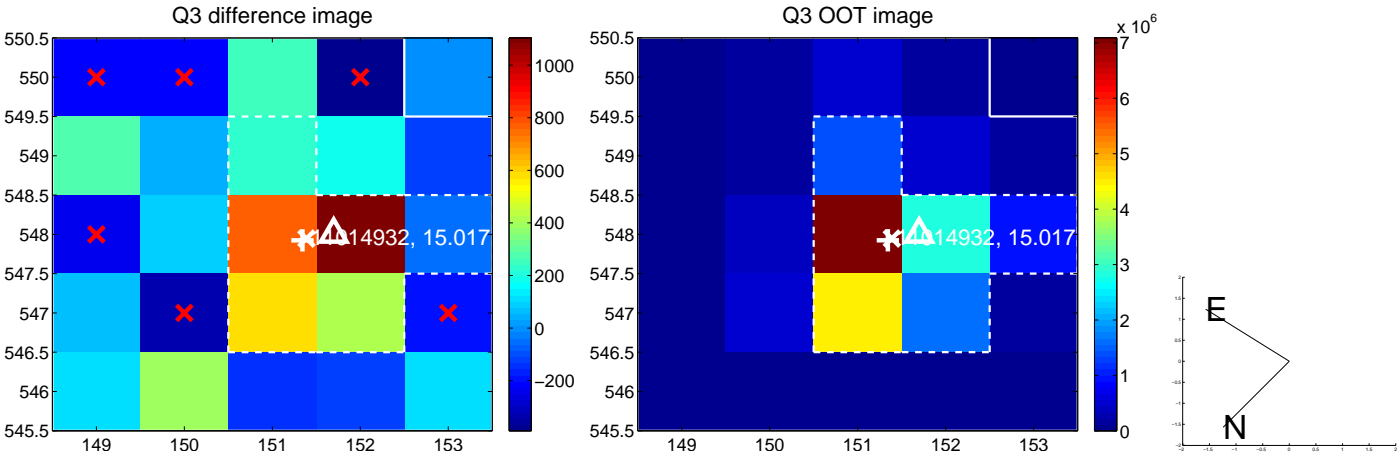
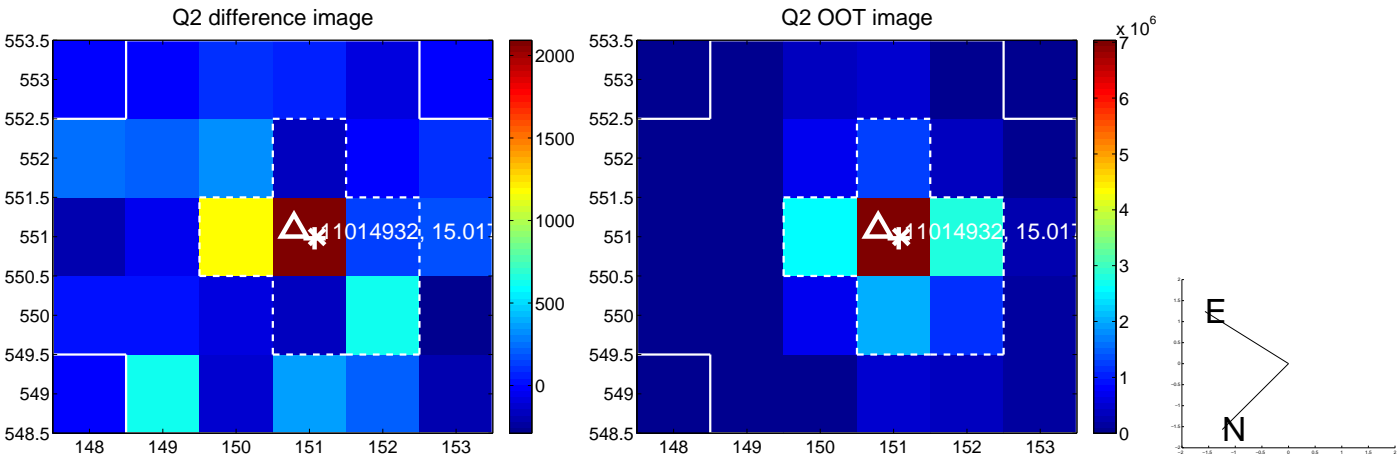
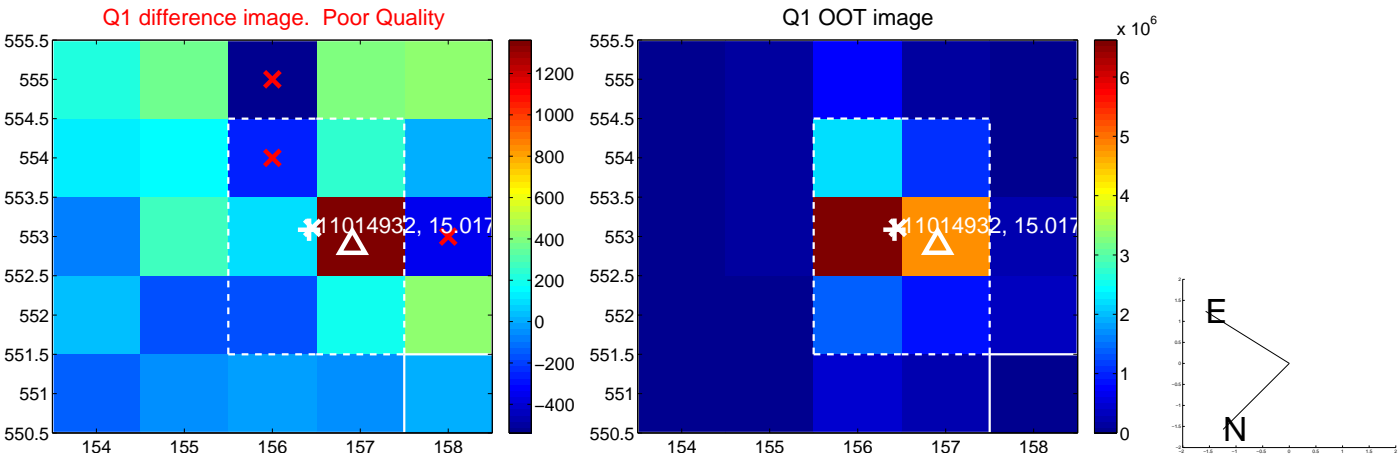
The direct PRF centroid is offset from the target star catalog position by about 0.26 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.086 ± 0.417	0.21	0.085 ± 0.418	-0.001 ± 0.353
PRF-fit source offset from KIC position	0.260 ± 0.473	0.55	0.195 ± 0.438	0.172 ± 0.355
photometric centroid source offset	3.48 ± 0.97	3.60	-3.48 ± 0.97	-0.13 ± 0.95

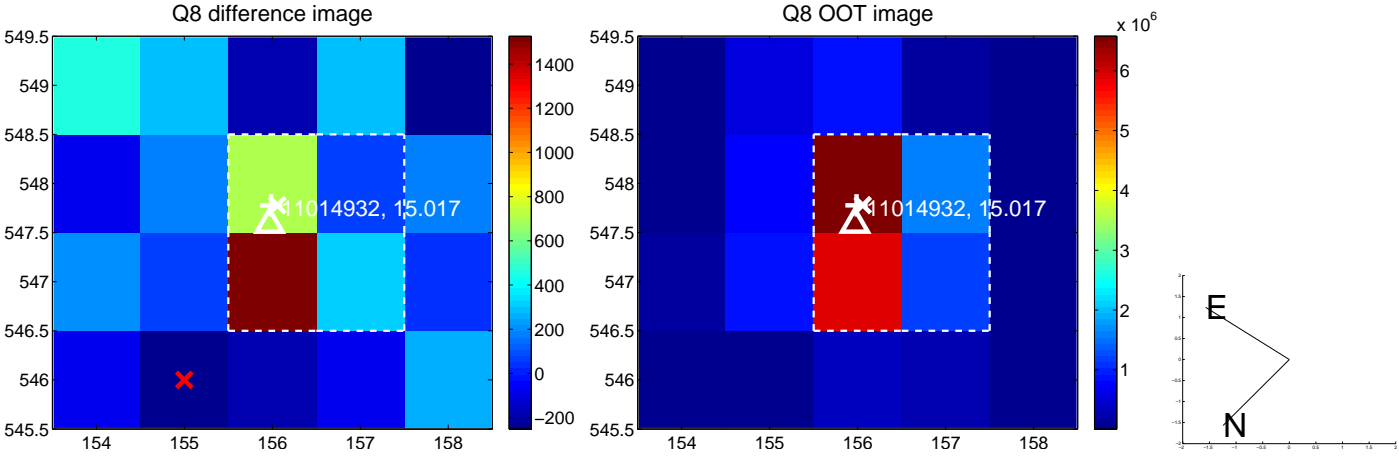
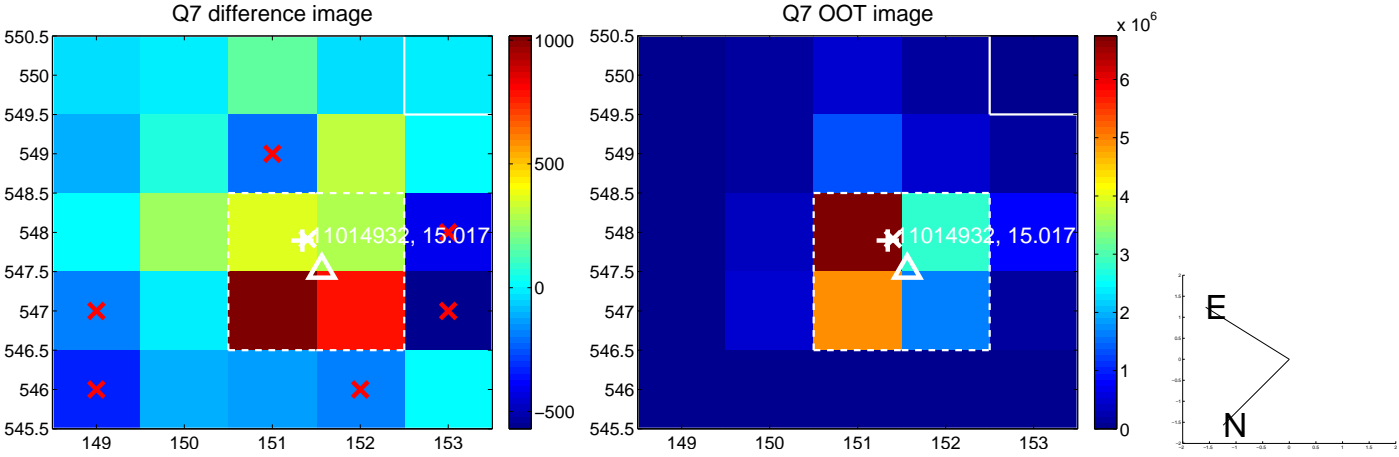
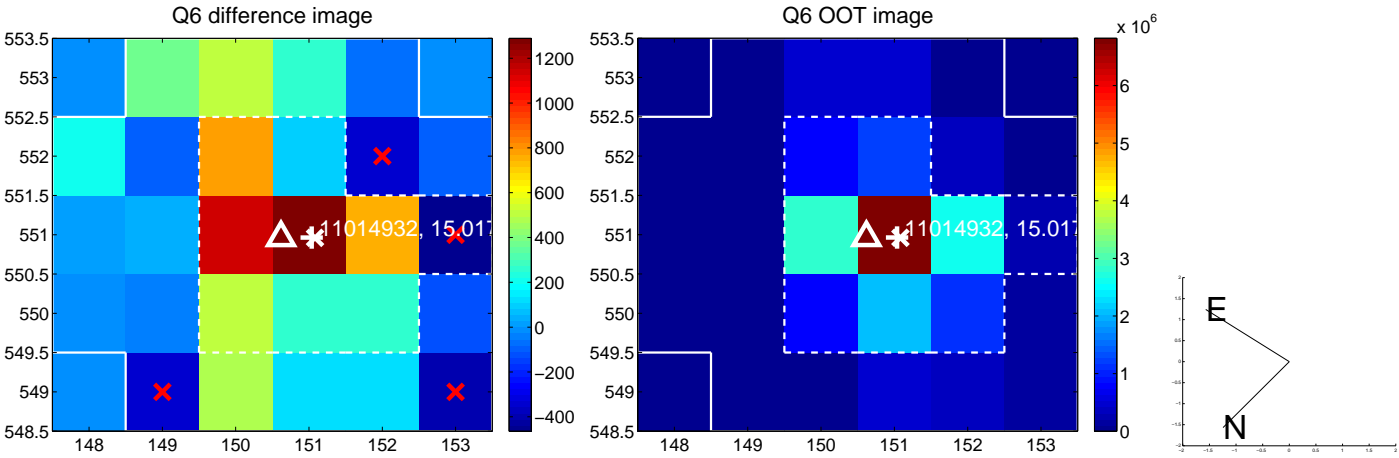
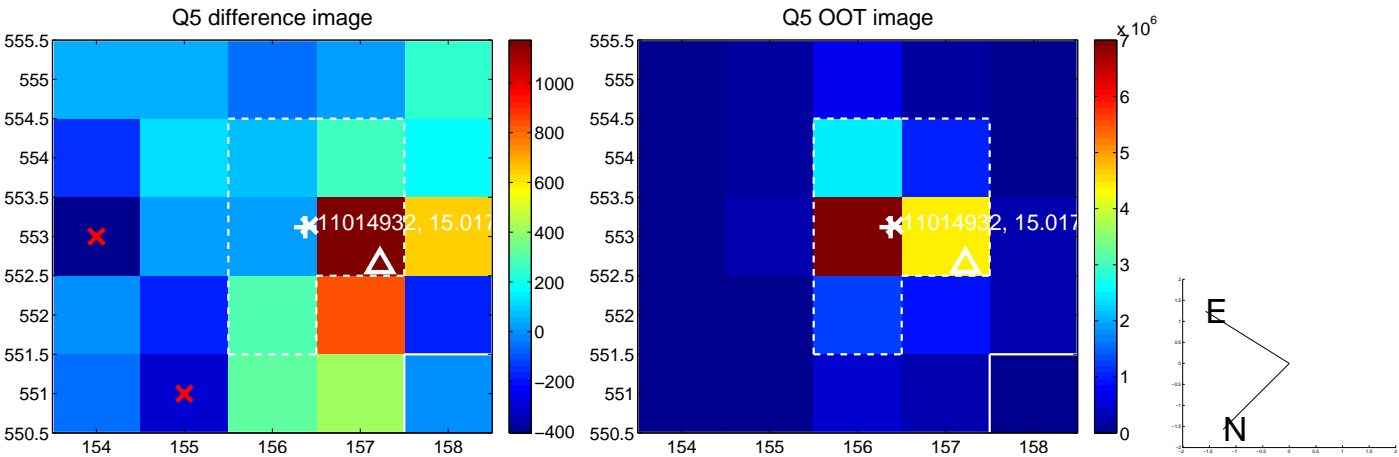


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

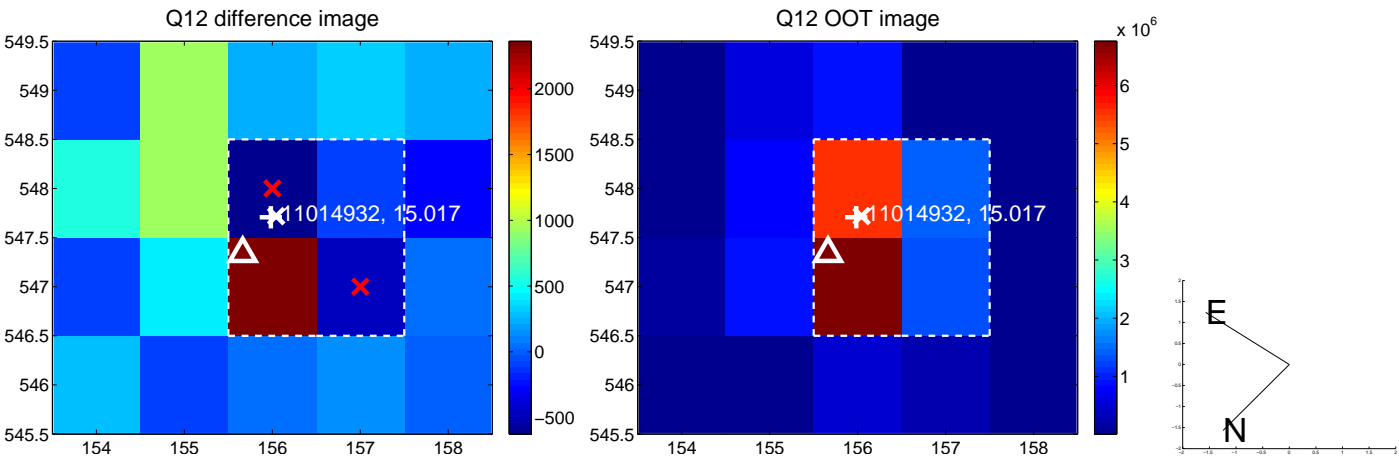
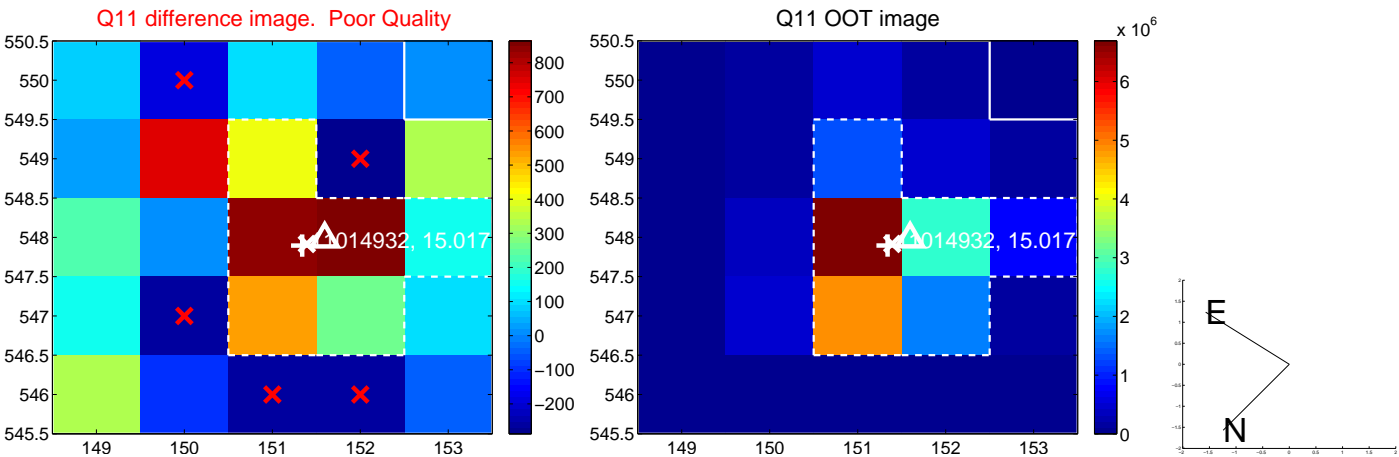
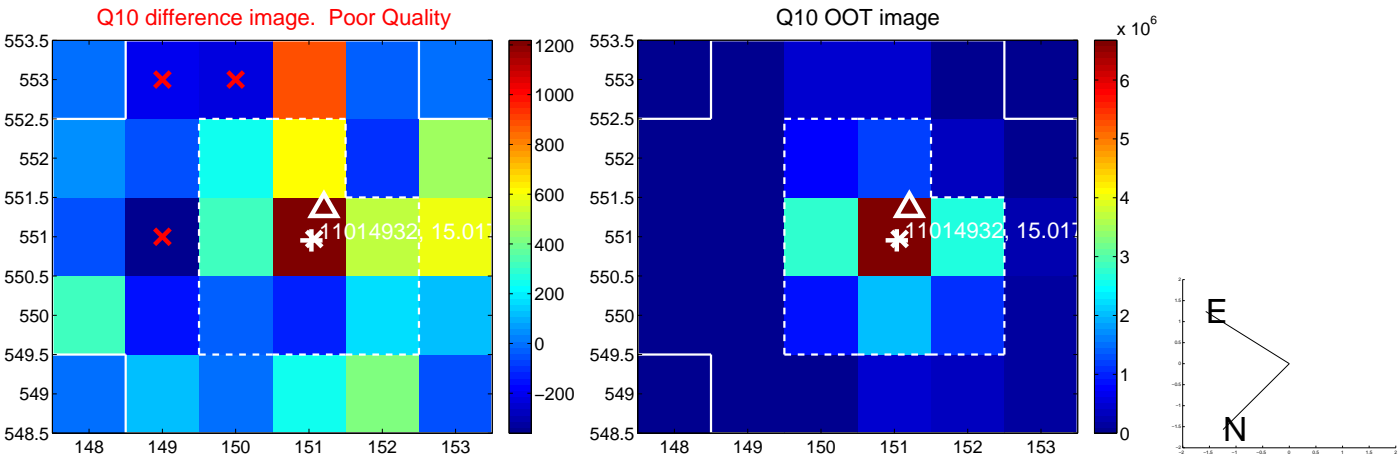
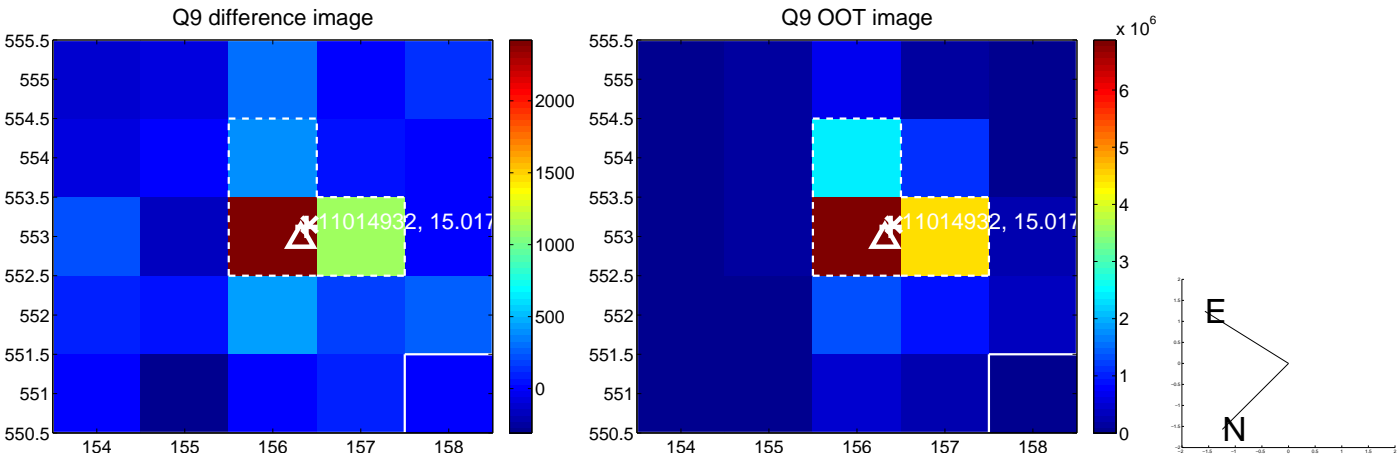
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



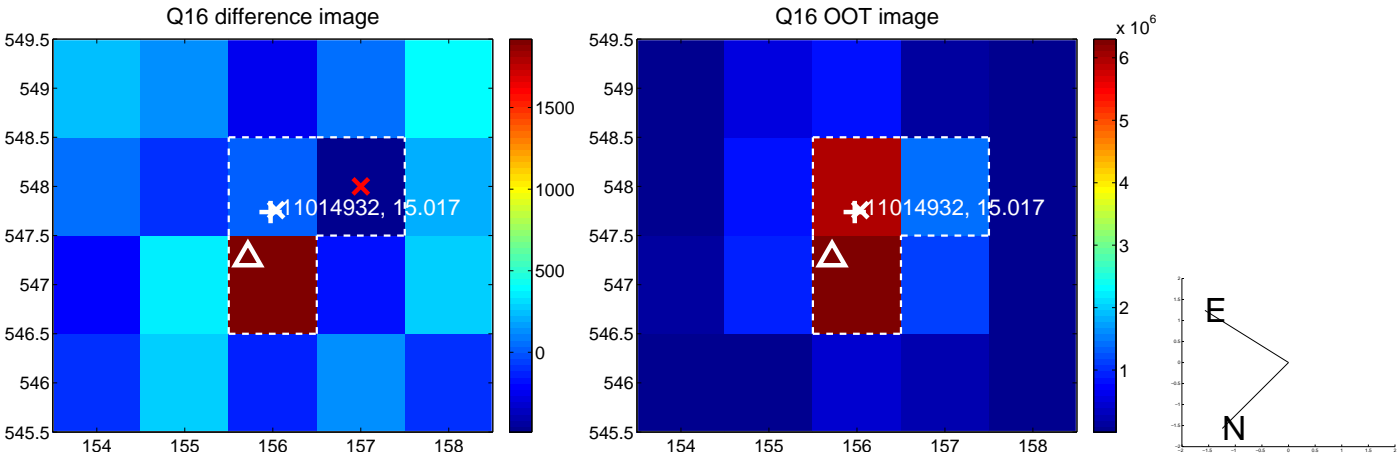
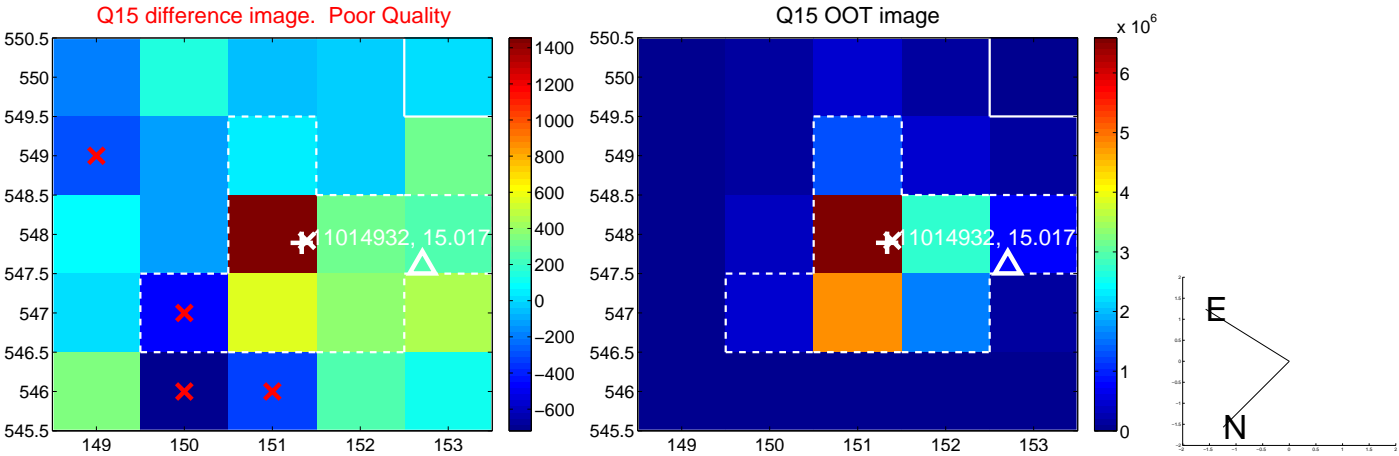
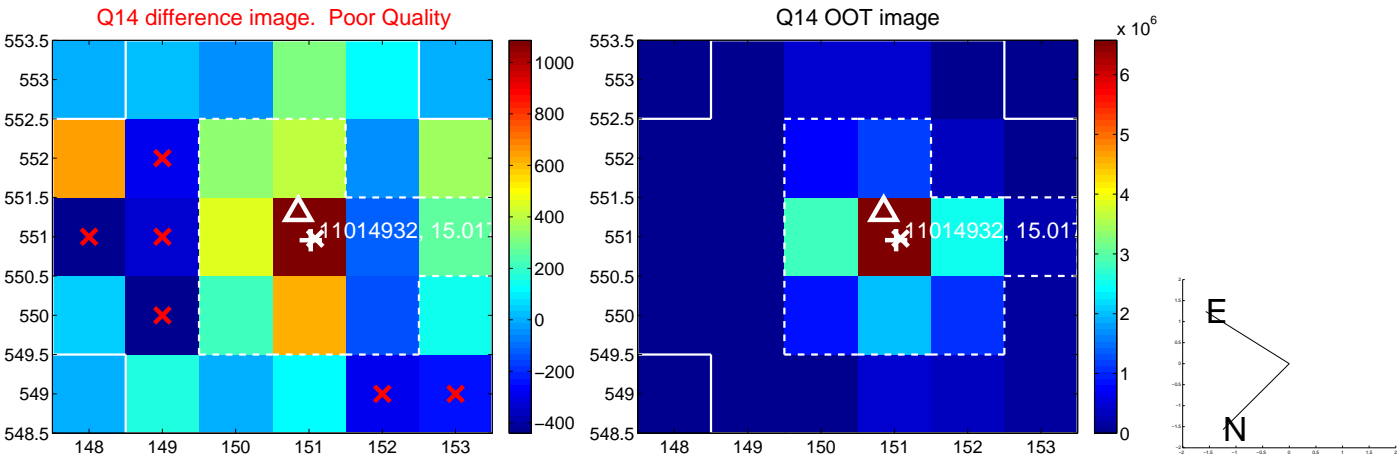
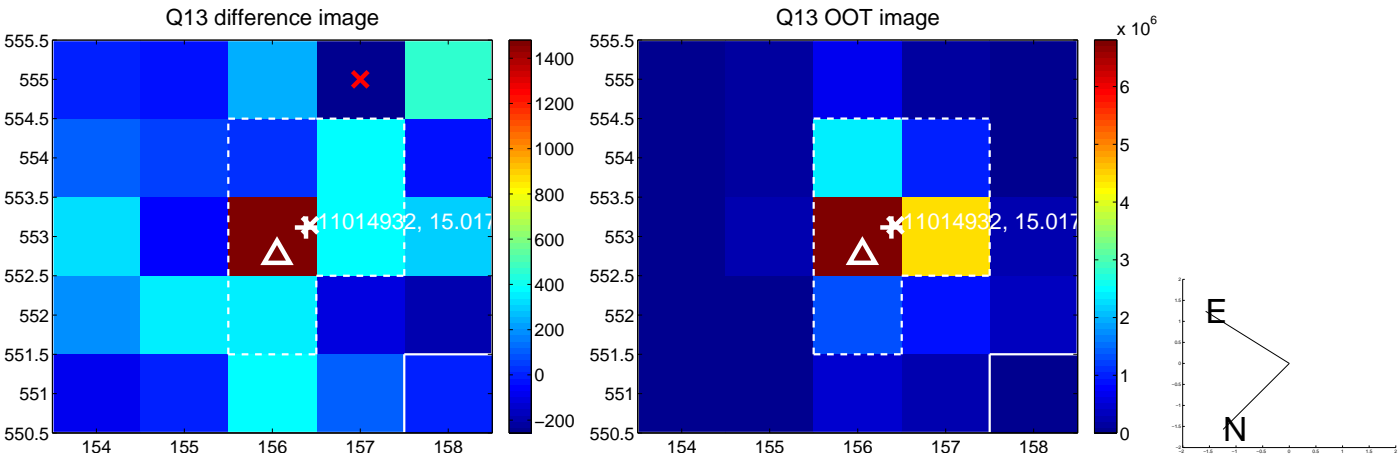
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



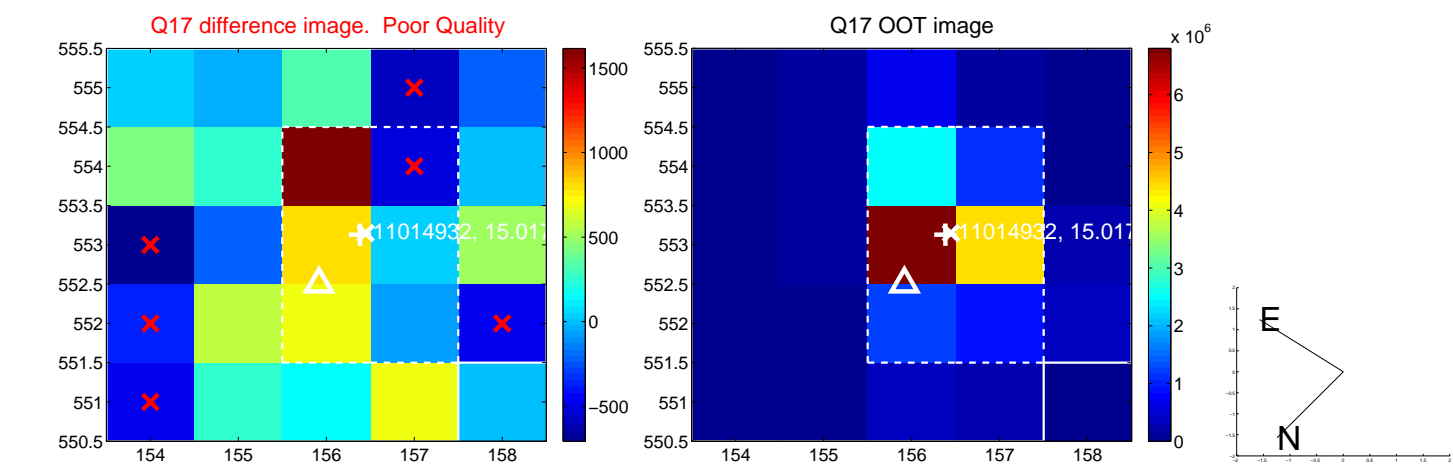
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



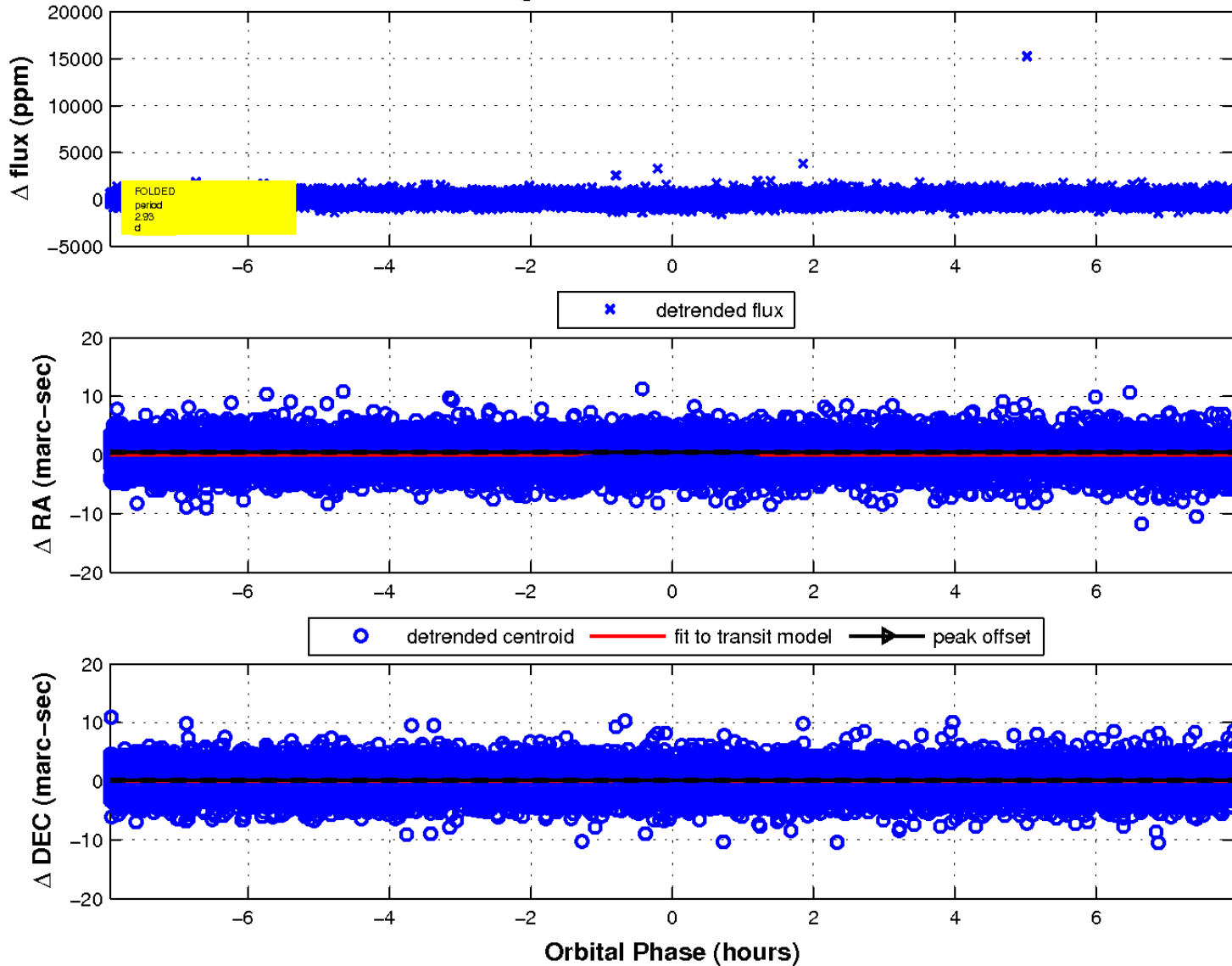
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 4



This plot does not exist for this TCE.

KIC 011014932

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})
011014932-01	OBS	1432.01	6.885955	131.521025	412.6	3.877	29.0	31.4	1.00	5616	2.55	189.83
011014932-02	OBS	1432.02	15.054898	144.580129	242.0	4.772	14.5	14.1	1.00	5616	1.76	66.90
011014932-03	OBS	1432.03	2.927214	133.826616	156.6	2.651	14.1	15.5	1.00	5616	1.46	593.89
011014932-04	OBS	1432.04	38.285426	143.307991	325.2	5.897	11.1	12.1	1.00	5616	2.02	19.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011014932-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-03	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011014932-04	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.

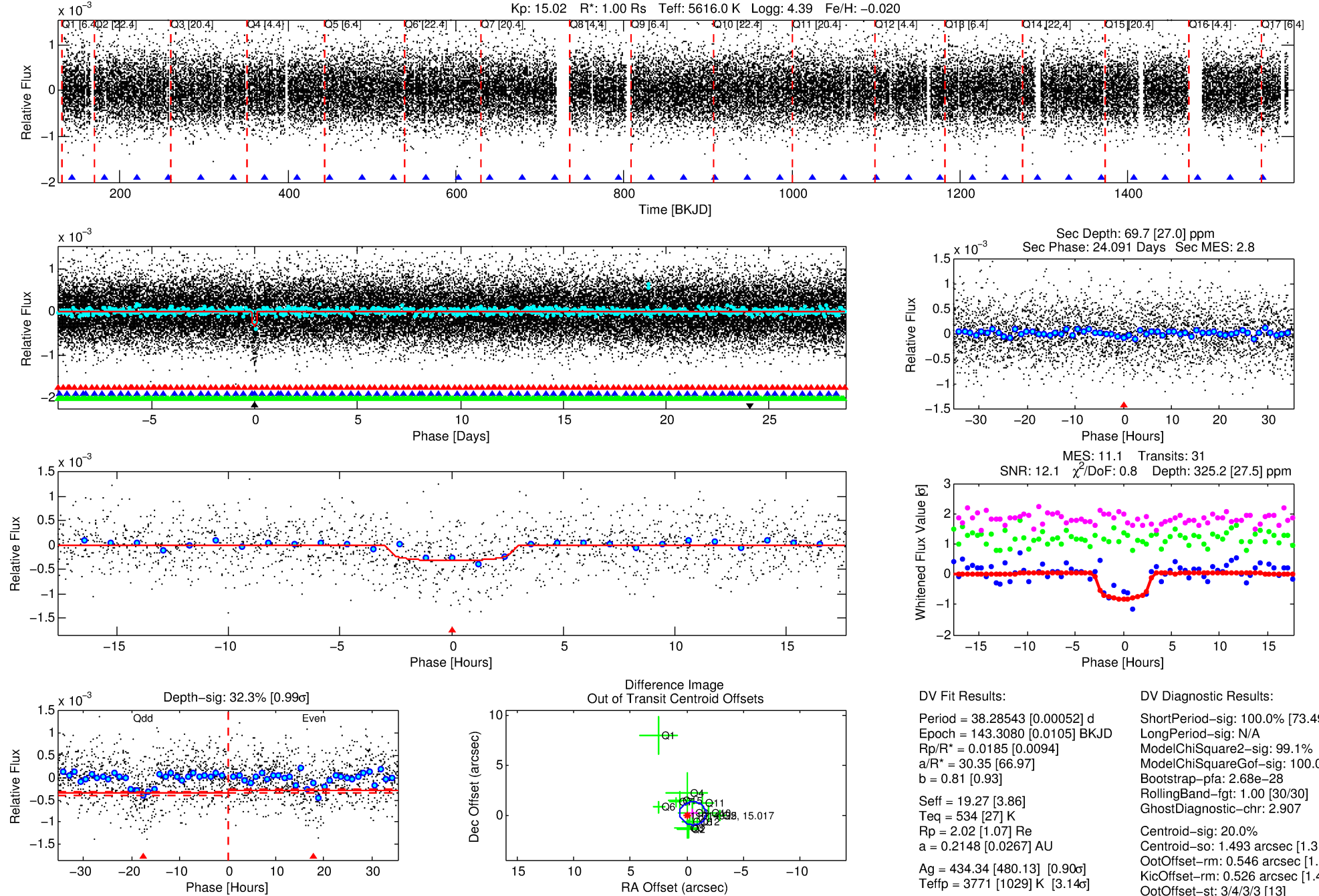
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011014932-04

No Significant Match Found

DV One-Page Summary

KIC: 11014932 Candidate: 4 of 4 Period: 38.285 d
KOI: K01432.04 Name: Kepler-299e Corr: 0.958



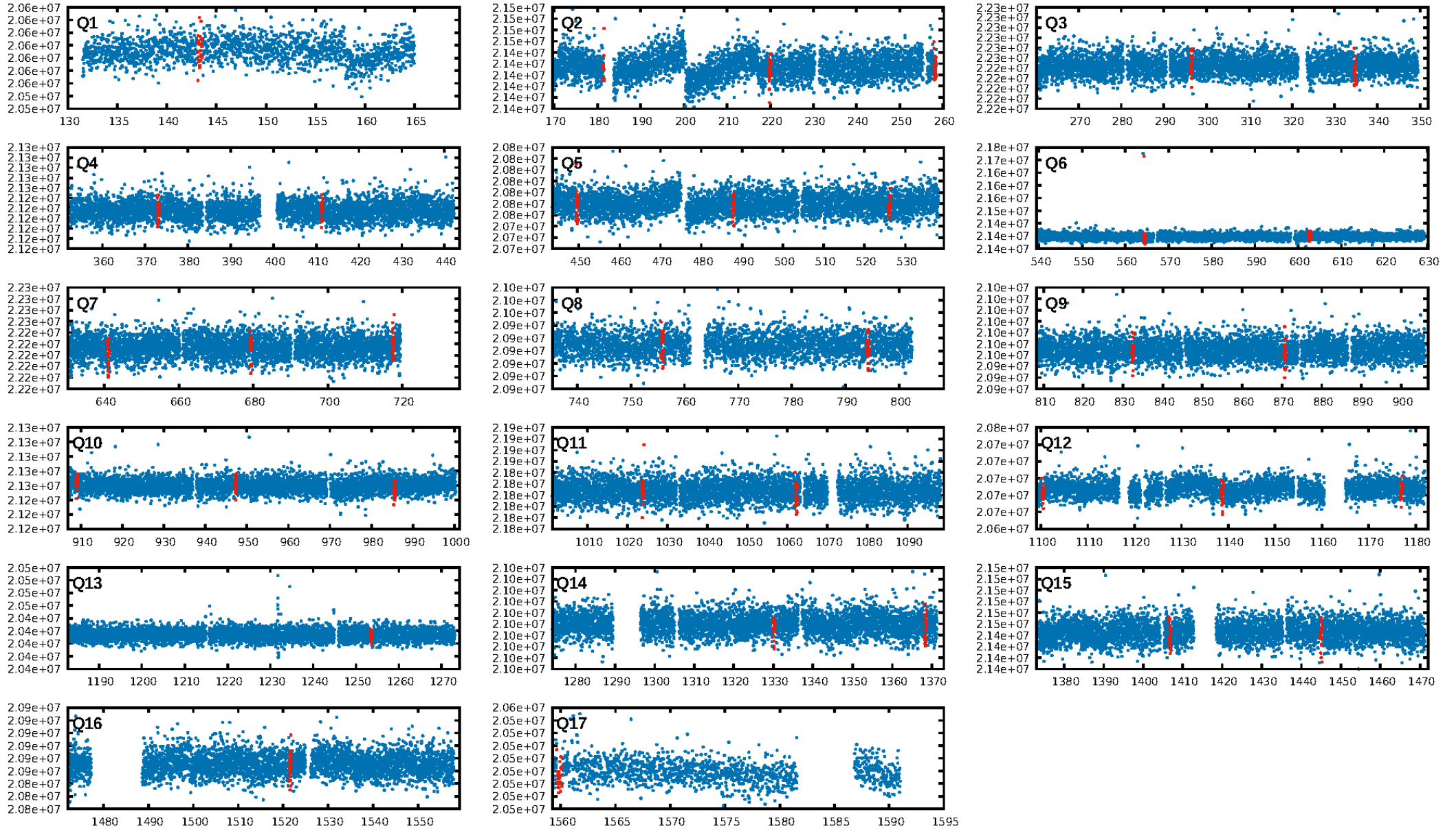
DV Fit Results:

Period = 38.28543 [0.00052] d
Epoch = 143.3080 [0.0105] BKJD
Rp/R* = 0.0185 [0.0094]
a/R* = 30.35 [66.97]
b = 0.81 [0.93]
Seff = 19.27 [3.86]
Teq = 534 [27] K
Rp = 2.02 [1.07] Re
a = 0.2148 [0.0267] AU
Ag = 434.34 [480.13] [0.90σ]
Teffp = 3771 [1029] K [3.14σ]

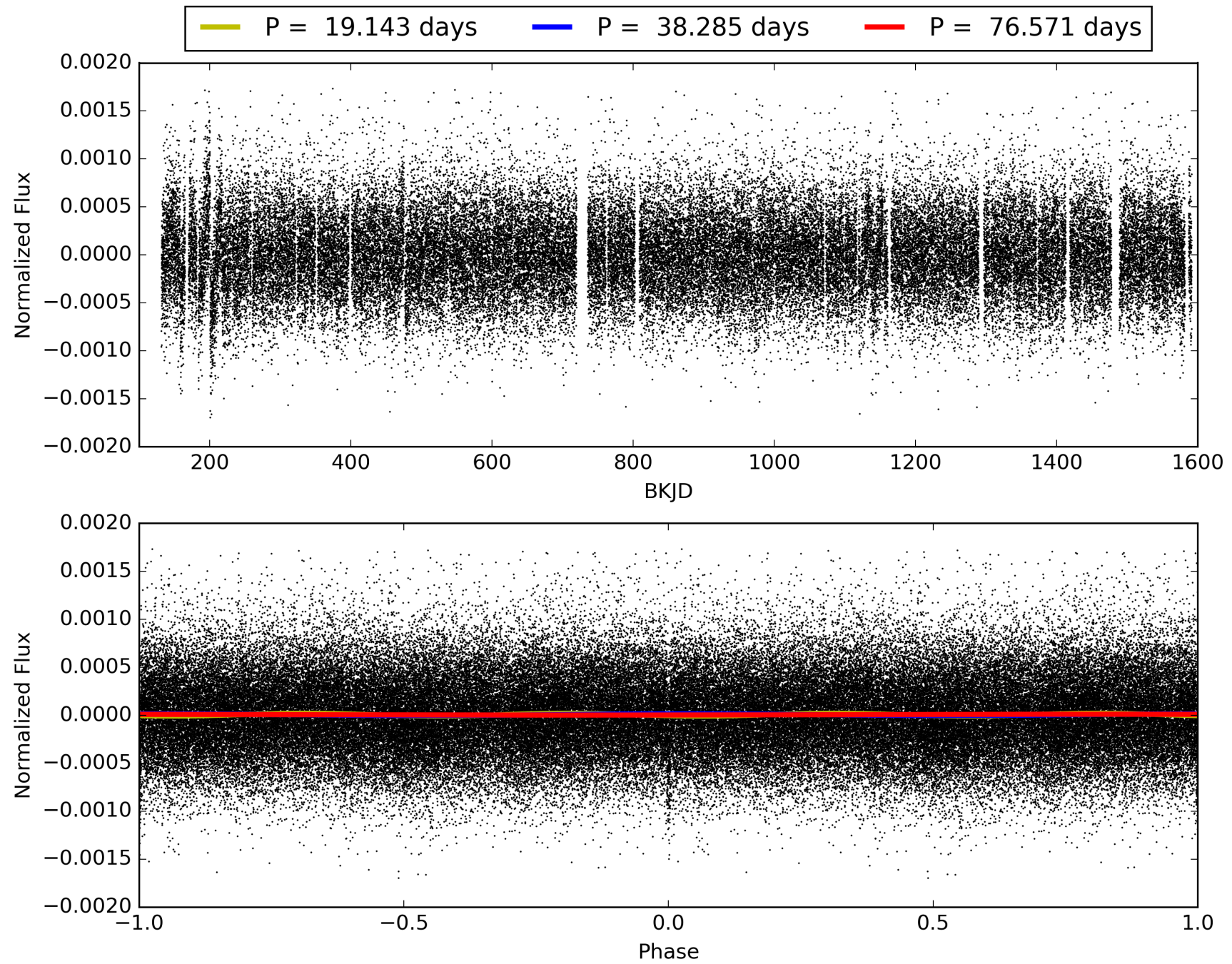
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [73.49σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 99.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.68e-28
RollingBand-fgt: 1.00 [30/30]
GhostDiagnostic-chr: 2.907
Centroid-sig: 20.0%
Centroid-so: 1.493 arcsec [1.31σ]
OotOffset-rm: 0.546 arcsec [1.42σ]
KicOffset-rm: 0.526 arcsec [1.40σ]
OotOffset-st: 3/4/3/3 [13]
KicOffset-st: 3/4/3/3 [13]
DiffImageQuality-fgm: 0.69 [9/13]
DiffImageOverlap-fno: 0.44 [7/16]

TCE 011014932-04, PDC Light Curves

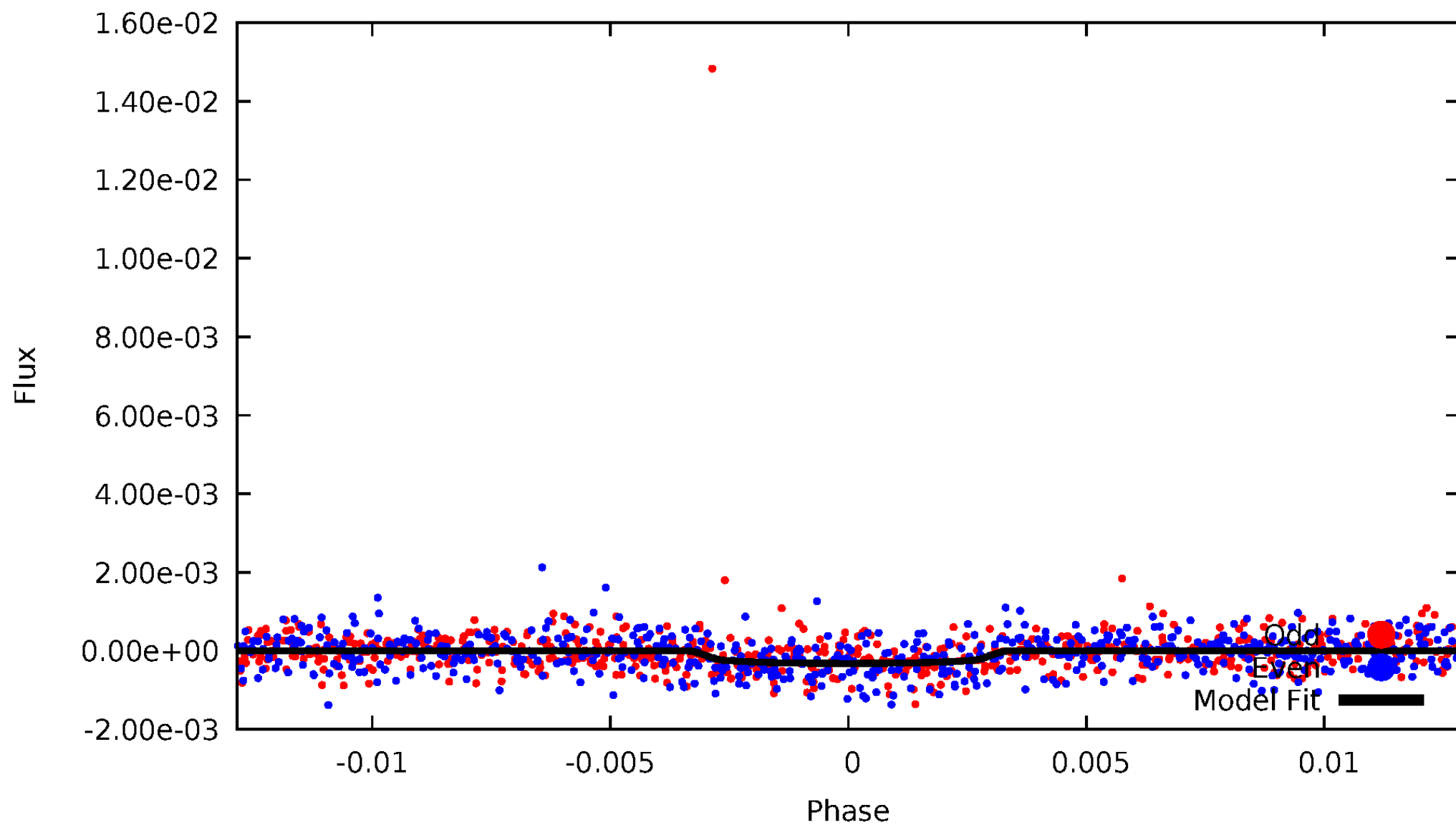


TCE 011014932-04



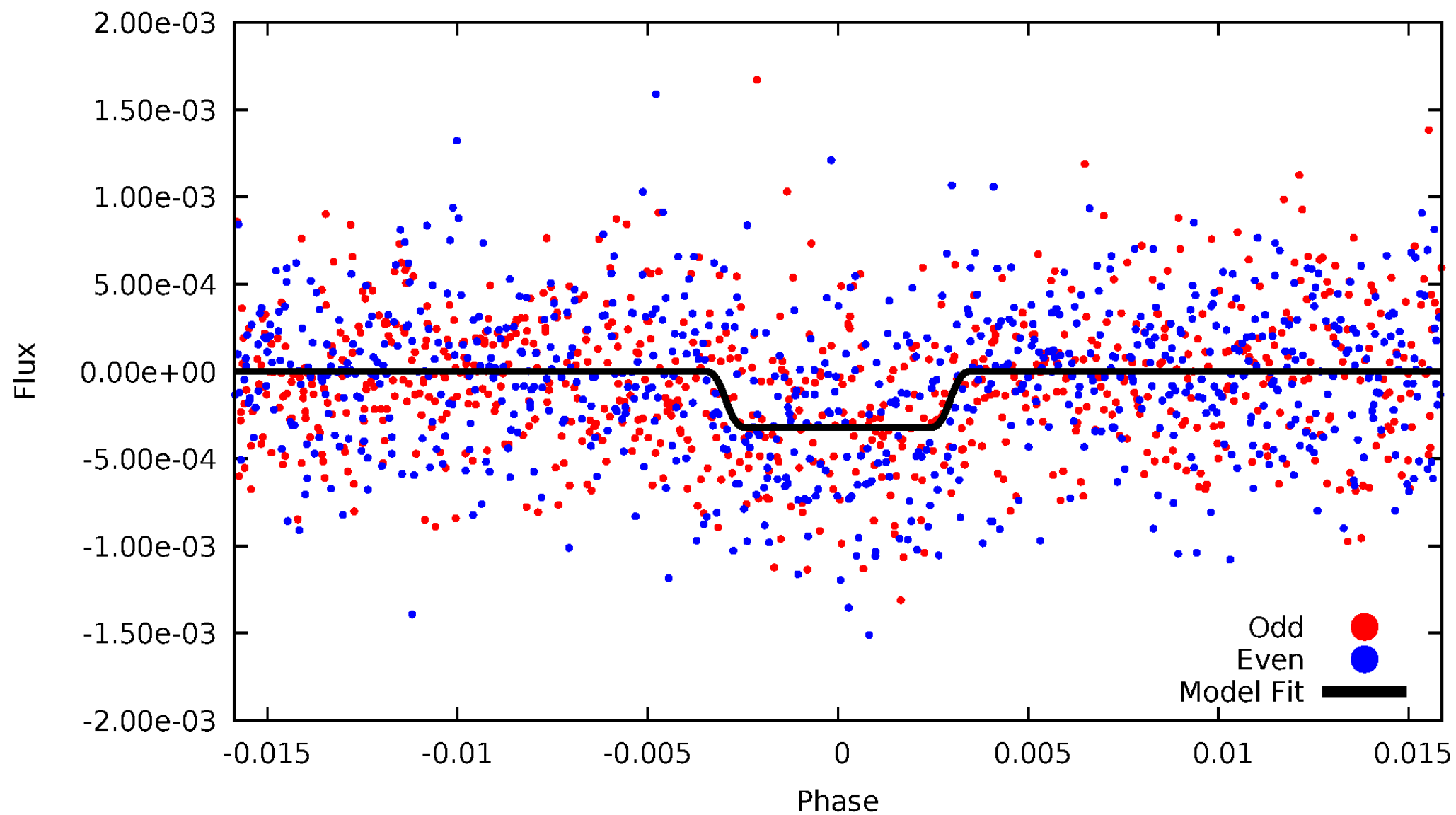
DV Odd/Even

TCE 011014932-04



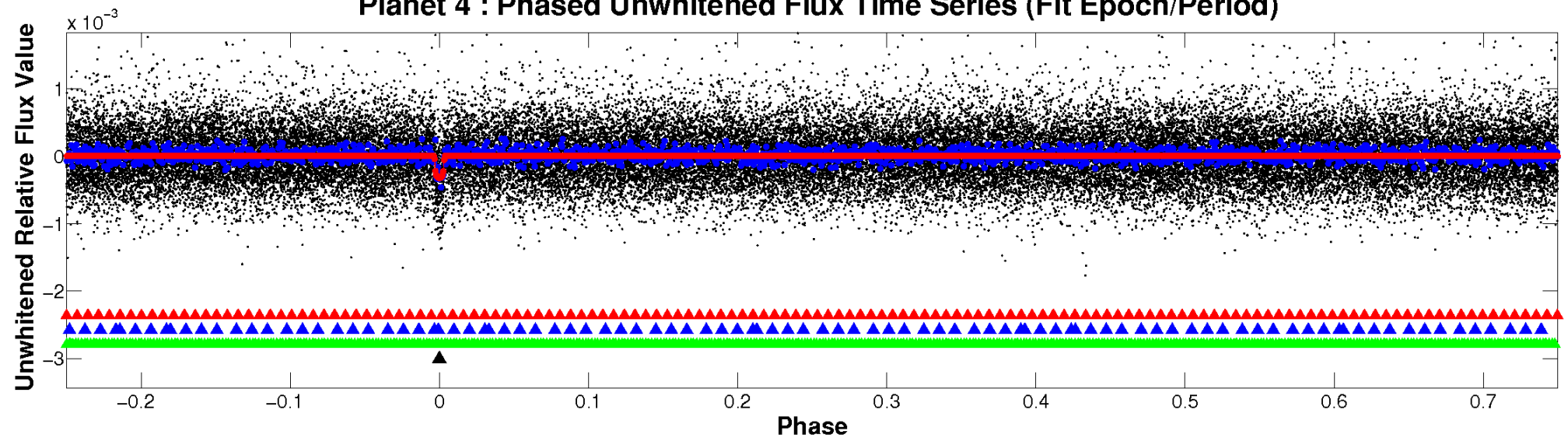
ALT Odd/Even

TCE 011014932-04

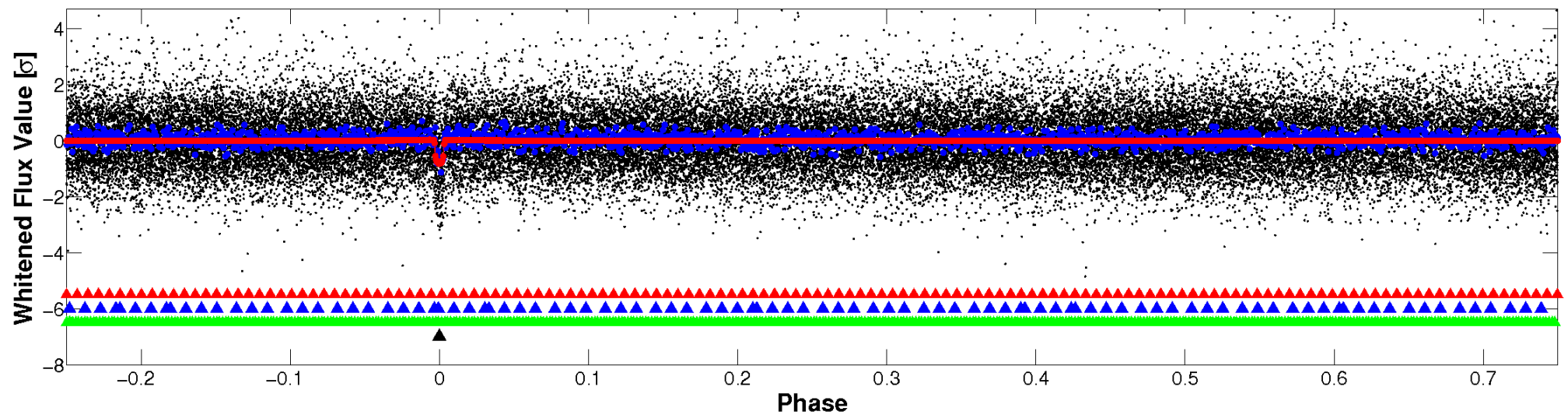


Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

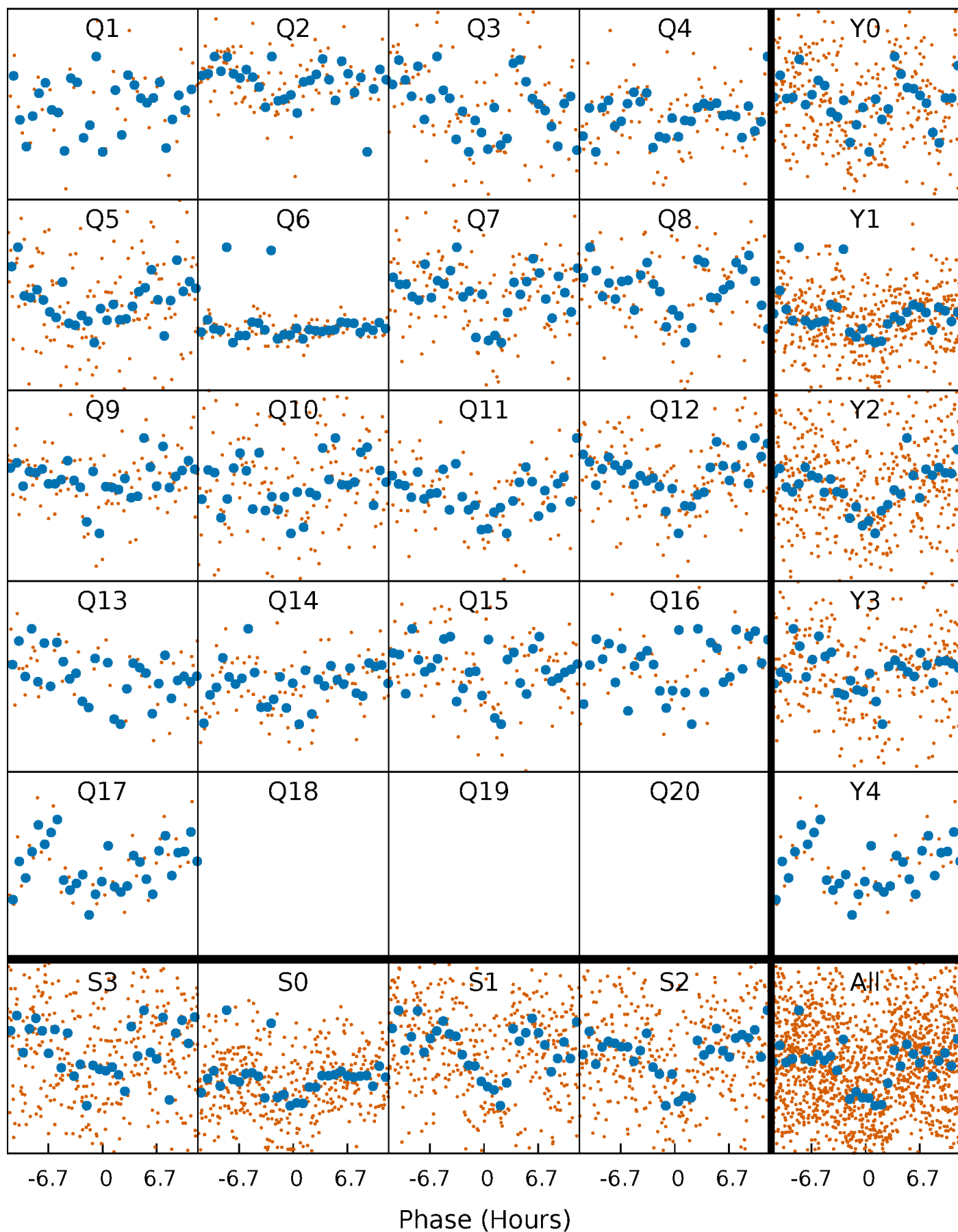


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



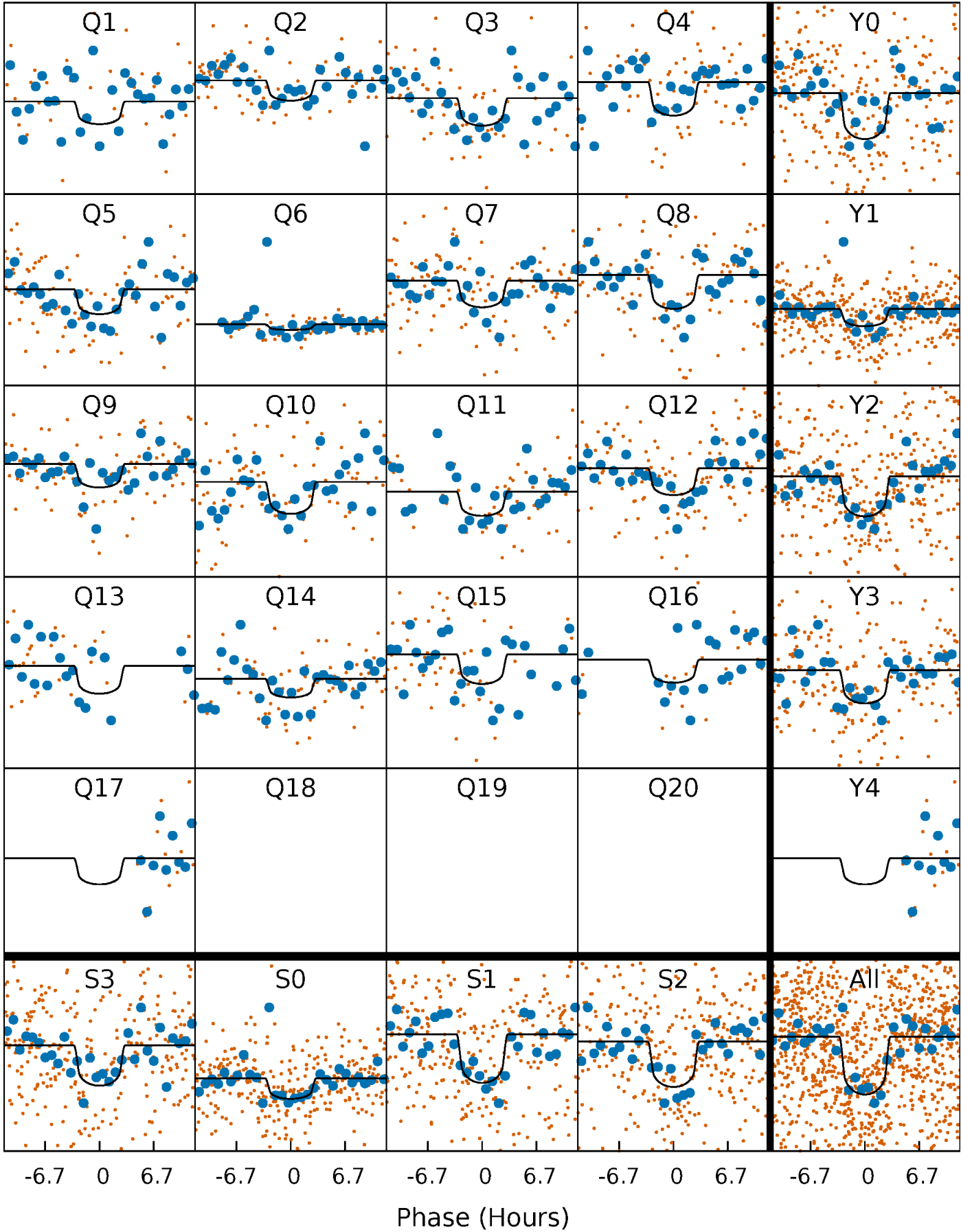
PDC Quarter-Phased Transit Curves

TCE 011014932-04 P= 38.285426 Days $T_0=143.307991$ (BKJD)



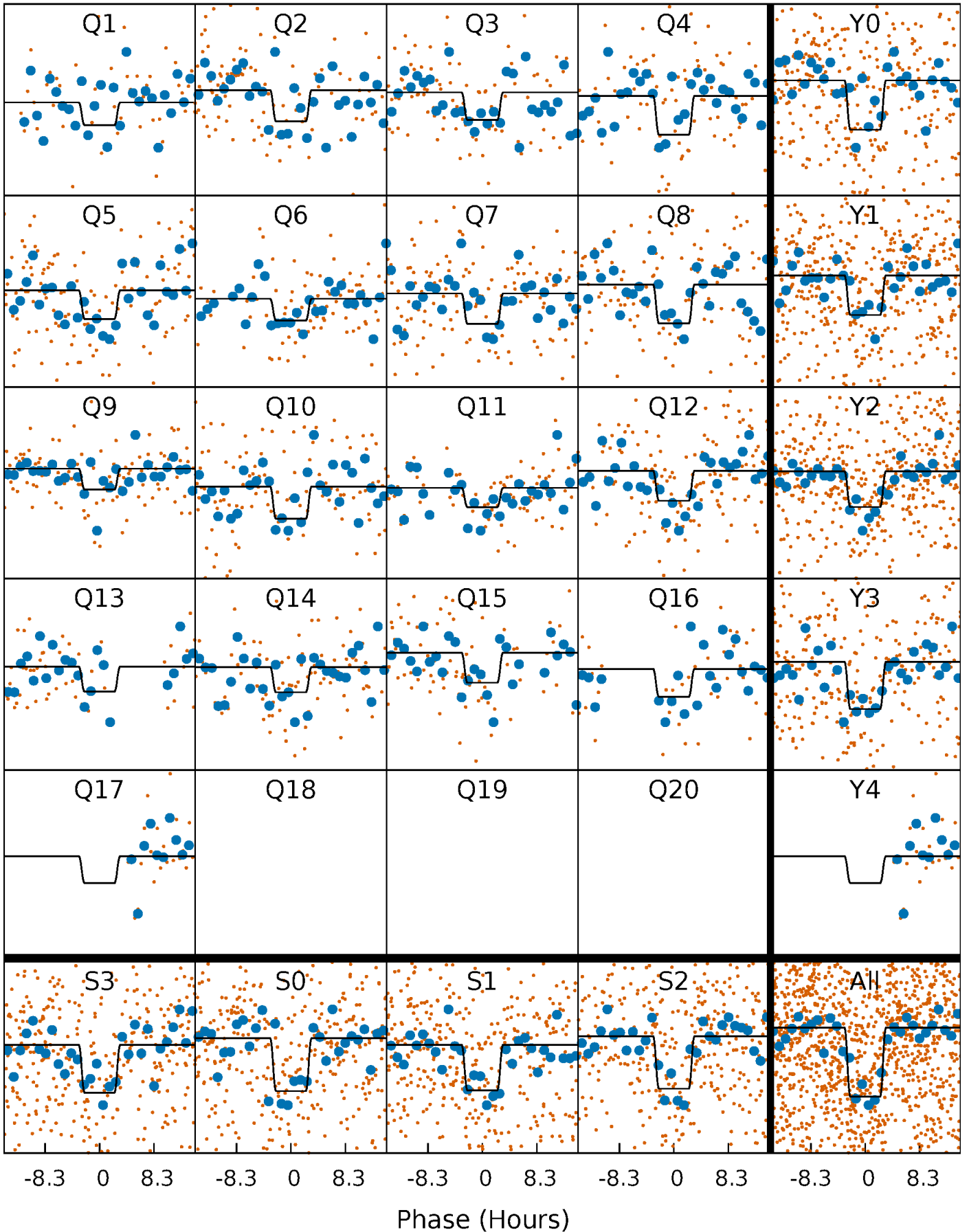
DV Quarter-Phased Transit Curves

TCE 011014932-04 P= 38.285426 Days $T_0=143.307991$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

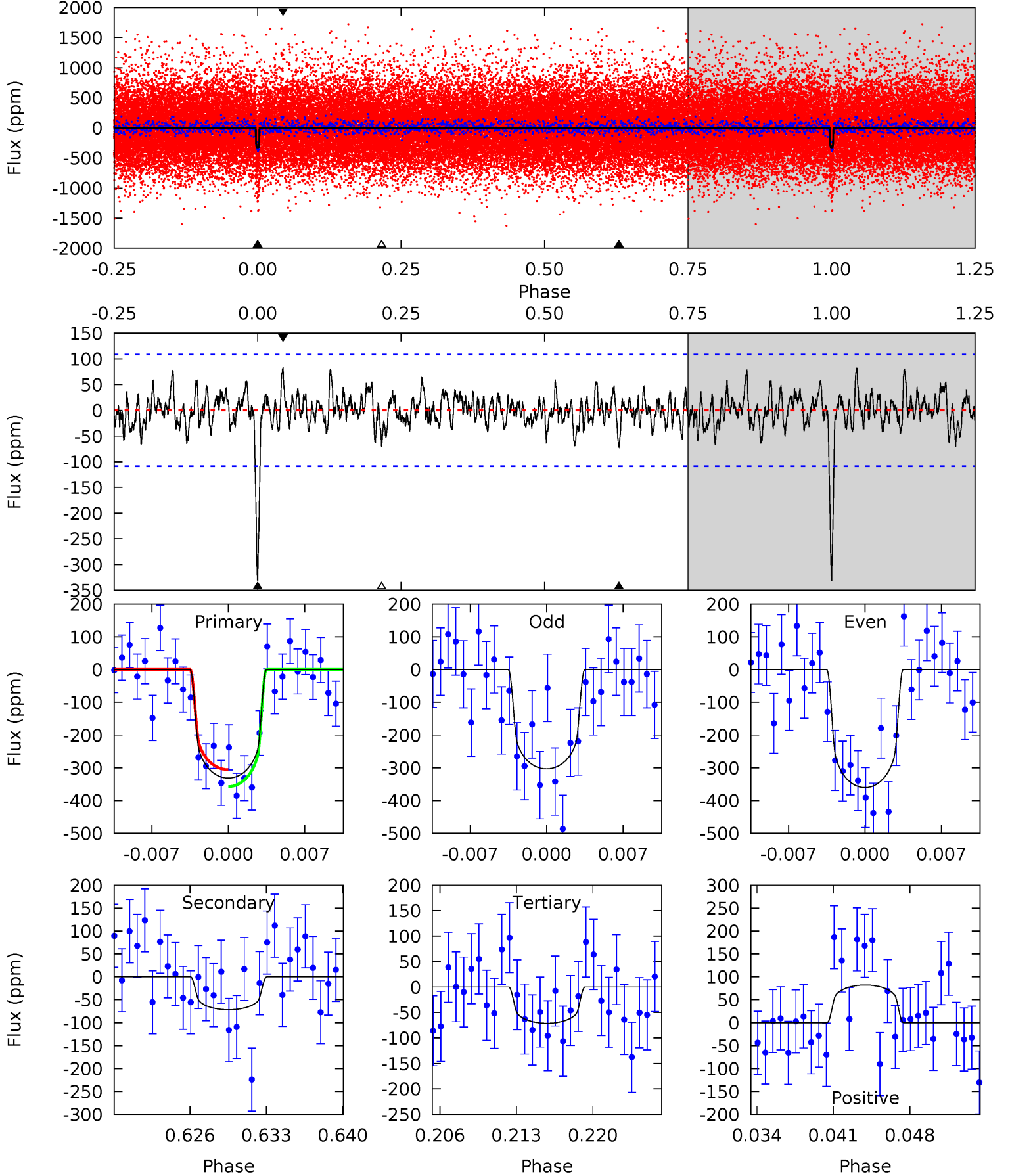
TCE 011014932-04 P= 38.286268 Days $T_0=143.289576$ (BKJD)



DV Model-Shift Uniqueness Test

011014932-04, P = 38.285426 Days, E = 105.022565 Days

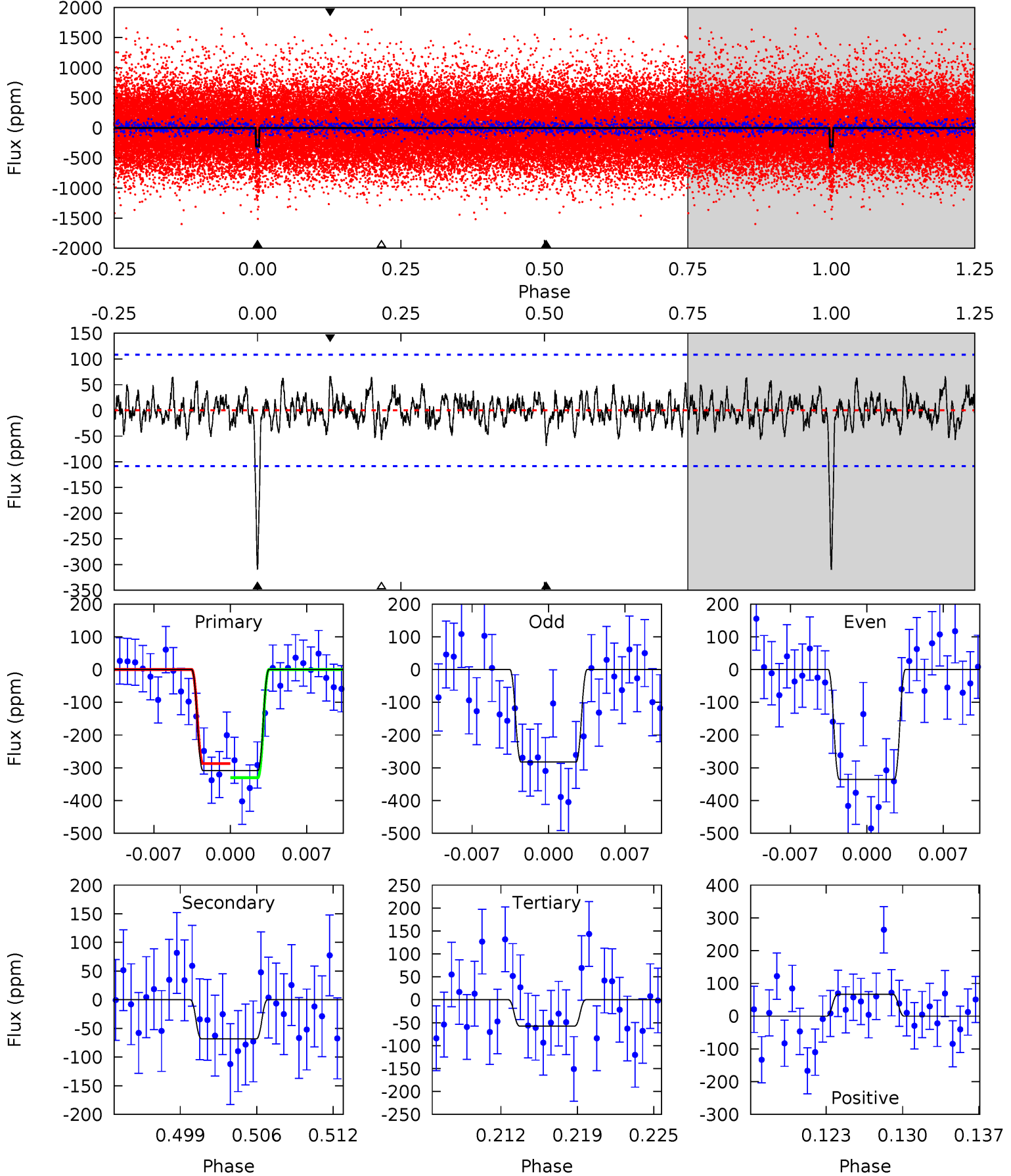
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.6	3.36	3.34	3.86	5.10	2.70	1.16	12.2	11.7	0.02	-0.49	1.34	0.86	0.20	1.22



Alt Model-Shift Uniqueness Test

011014932-04, P = 38.286268 Days, E = 105.003308 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.5	3.21	2.71	3.14	5.10	2.70	1.01	11.8	11.4	0.50	0.06	1.26	0.97	0.18	1.02



Stellar Parameters For KIC 011014932

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5616^{+101}_{-101}	$4.394^{+0.105}_{-0.105}$	$-0.020^{+0.150}_{-0.150}$	$0.999^{+0.142}_{-0.116}$	$0.903^{+0.068}_{-0.051}$	$1.275^{+0.560}_{-0.387}$
	+2%/-2%	+2%/-2%	+750%/-750%	+14%/-12%	+8%/-6%	+44%/-30%
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 011014932-04 / KOI 1432.04

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-72 ± 21	$2.08^{+1.01}_{-0.95}$	745^{+35}_{-27}	4031^{+1097}_{-543}	428^{+1031}_{-258}
Alt.	-68 ± 21	$1.96^{+1.06}_{-0.96}$	748^{+31}_{-32}	4054^{+1365}_{-616}	428^{+1356}_{-266}

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

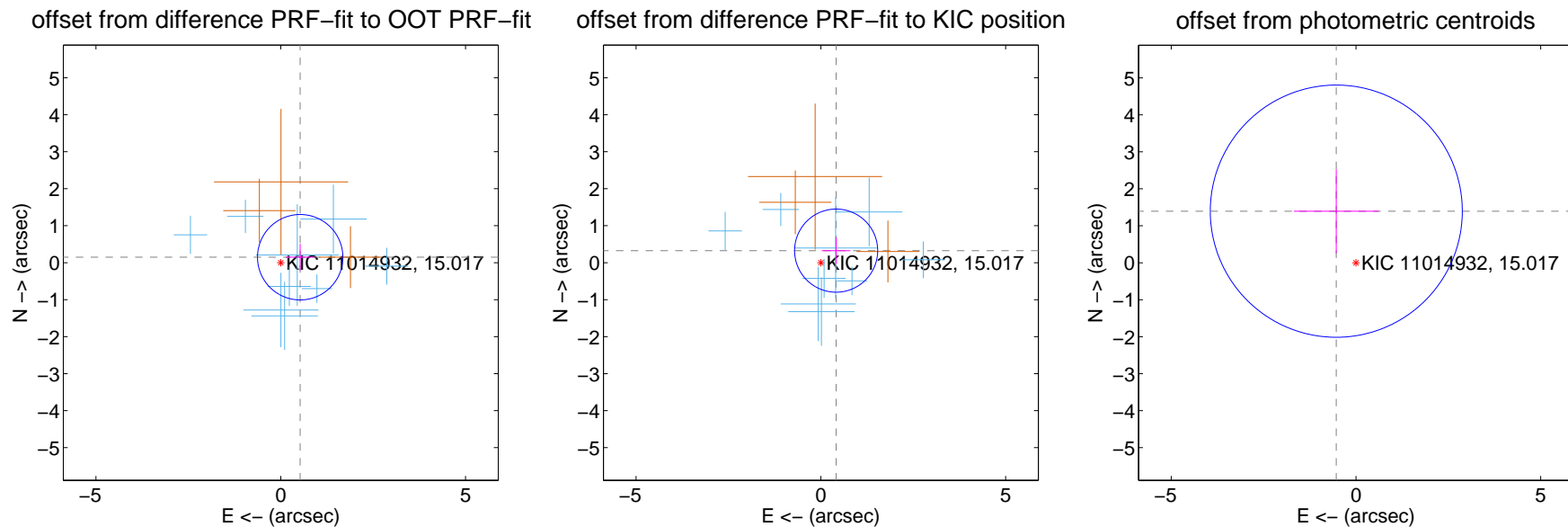
DV Centroid Data

Supplemental centroid analysis for 011014932-04. Kepler magnitude: 15.02. Transit SNR 12.06

There are 9 quarters with good PRF difference image offsets

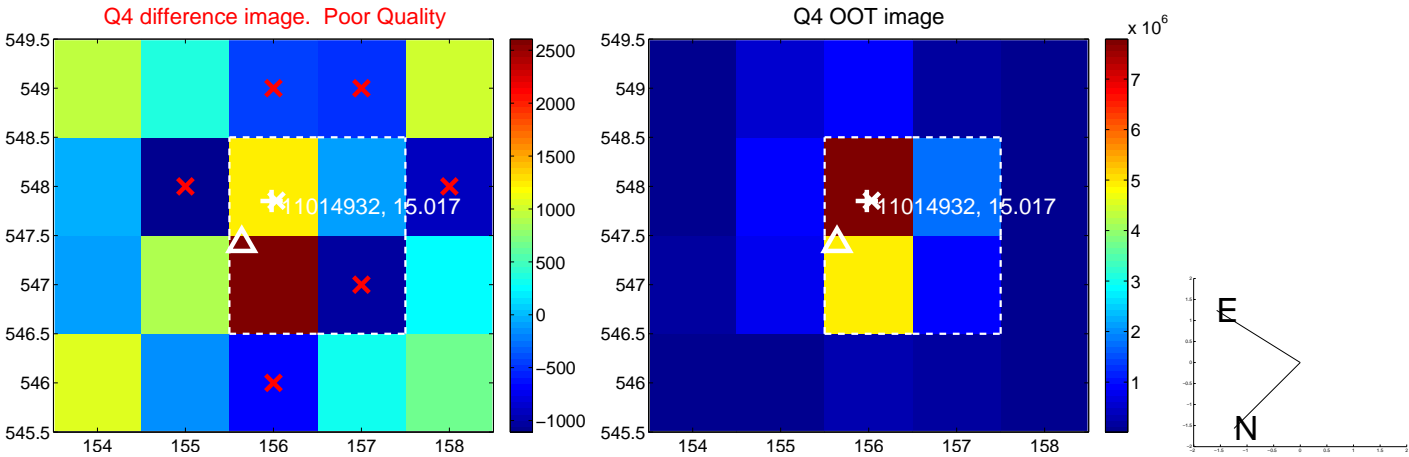
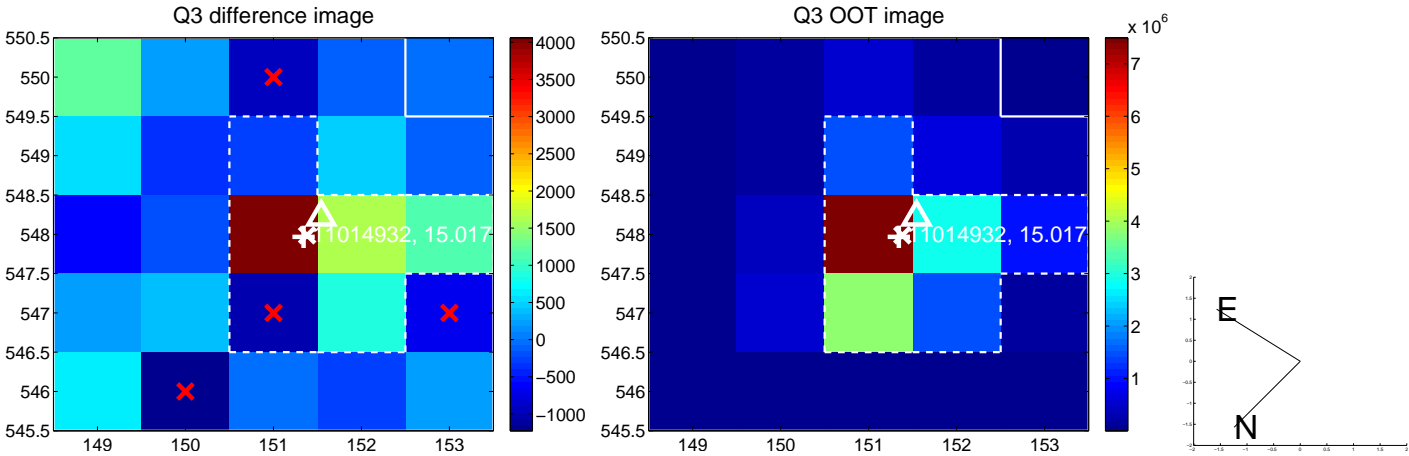
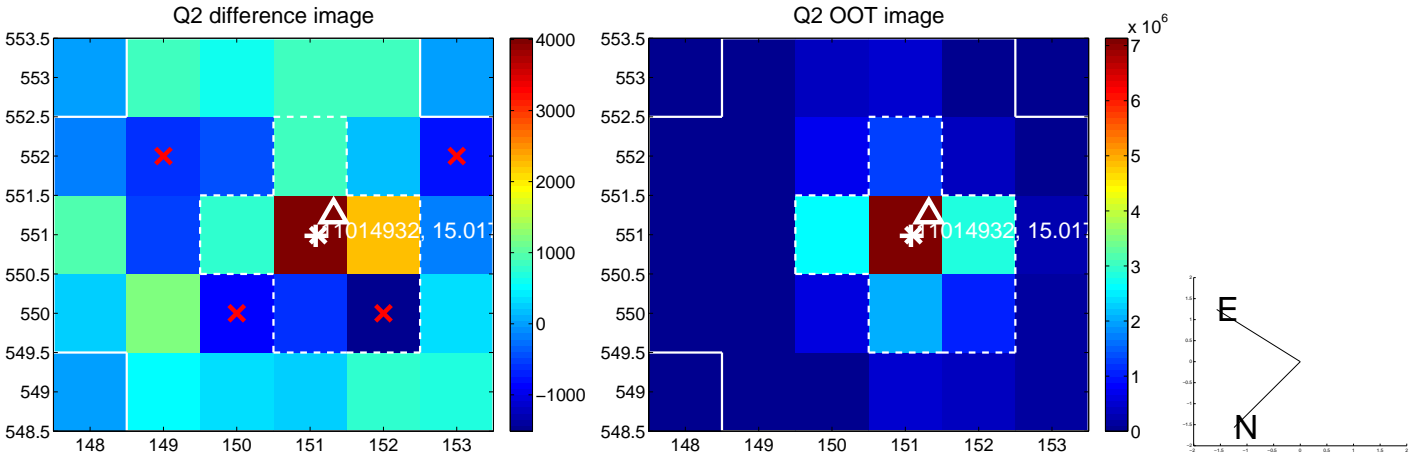
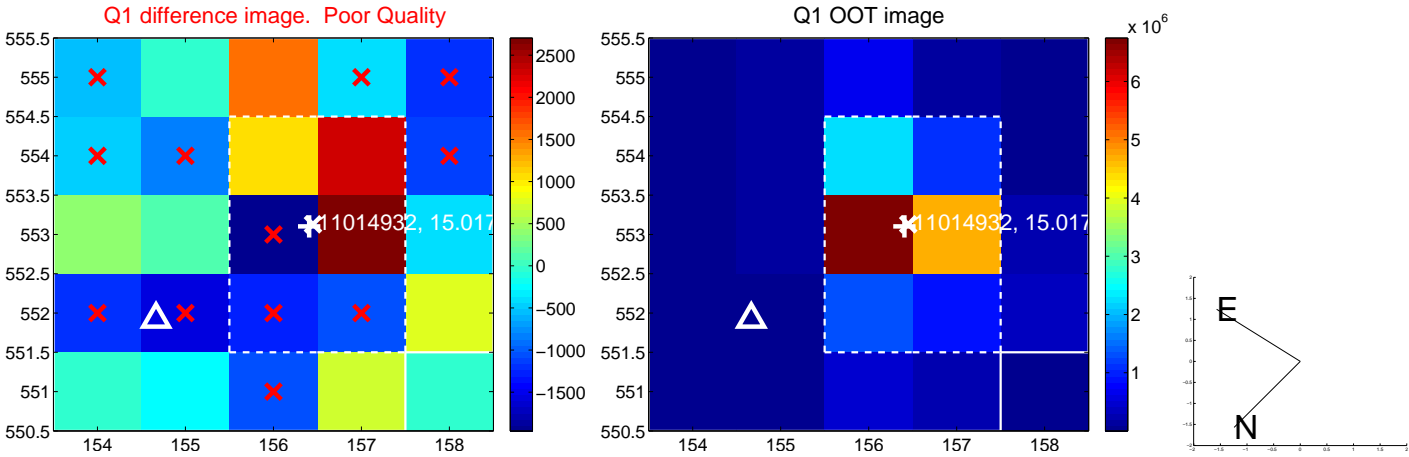
The direct PRF centroid is offset from the target star catalog position by about 0.26 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.546 ± 0.385	1.42	-0.526 ± 0.387	0.148 ± 0.359
PRF-fit source offset from KIC position	0.526 ± 0.375	1.40	-0.413 ± 0.385	0.326 ± 0.356
photometric centroid source offset	1.49 ± 1.14	1.31	0.53 ± 1.15	1.39 ± 1.14

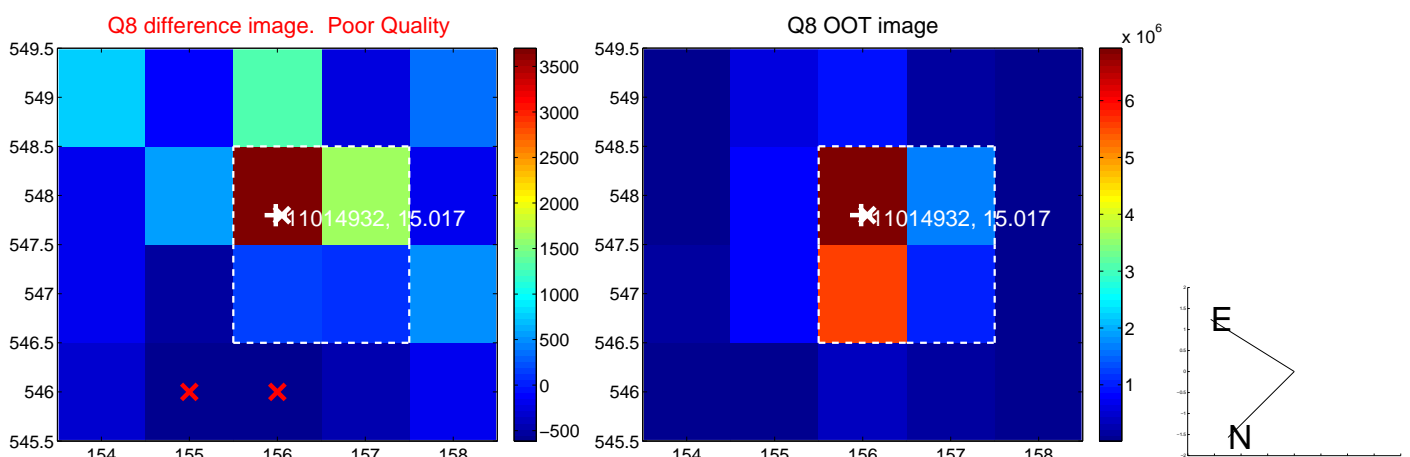
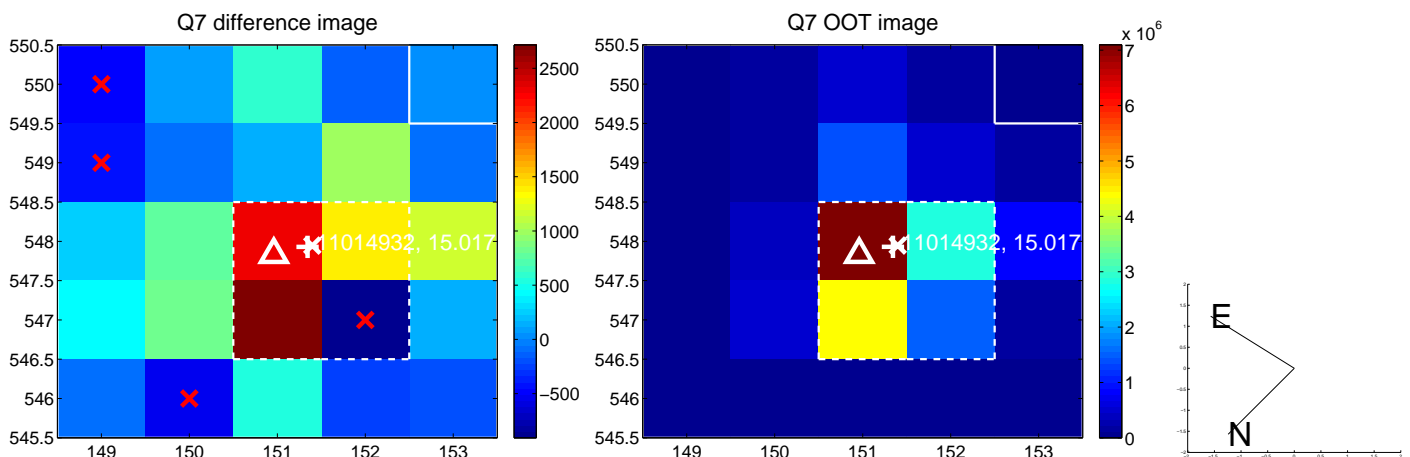
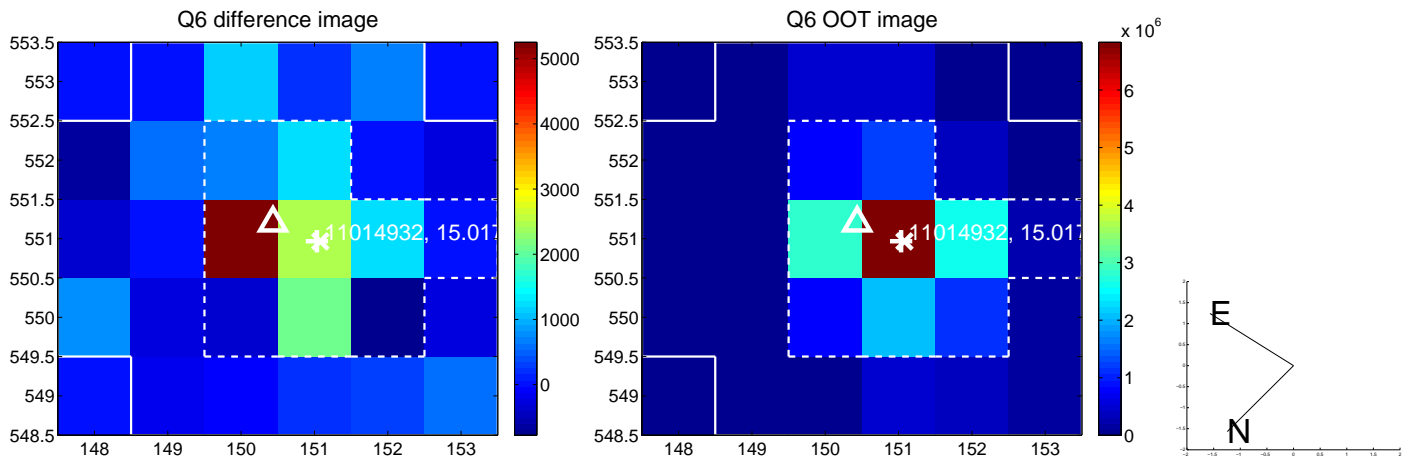
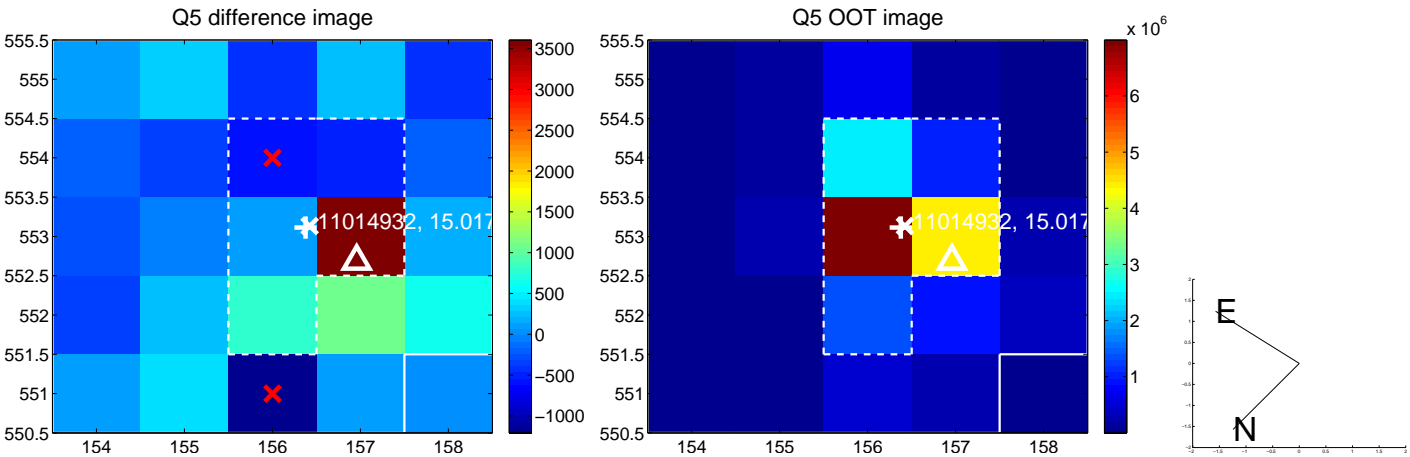


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

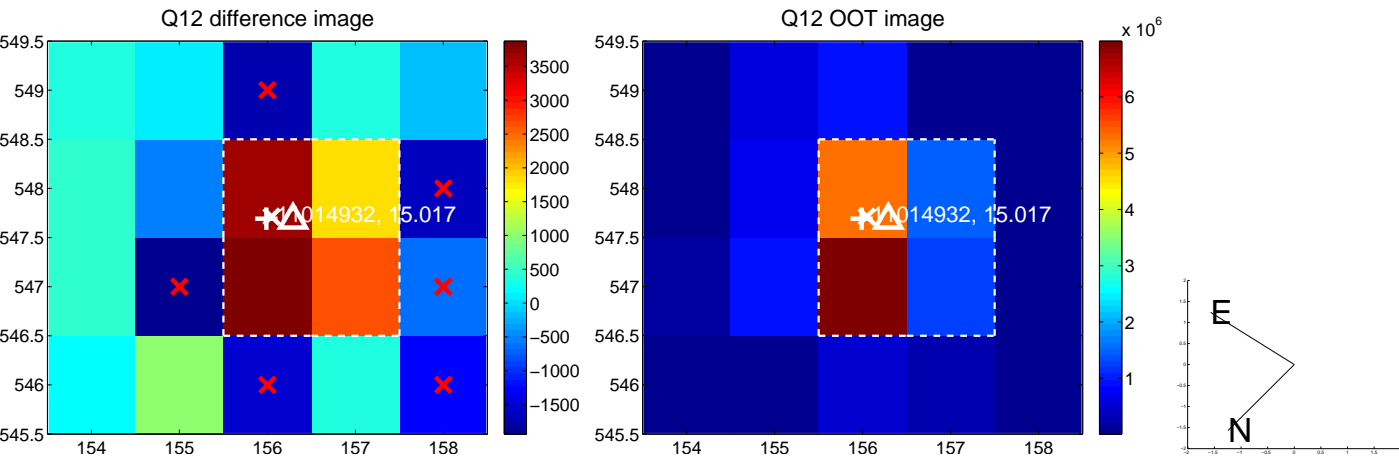
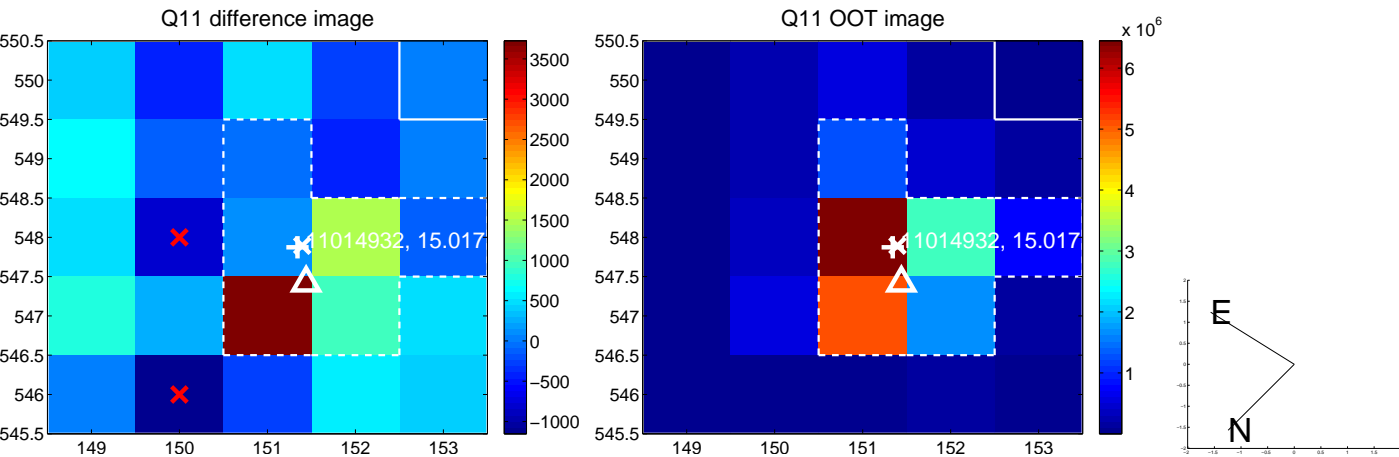
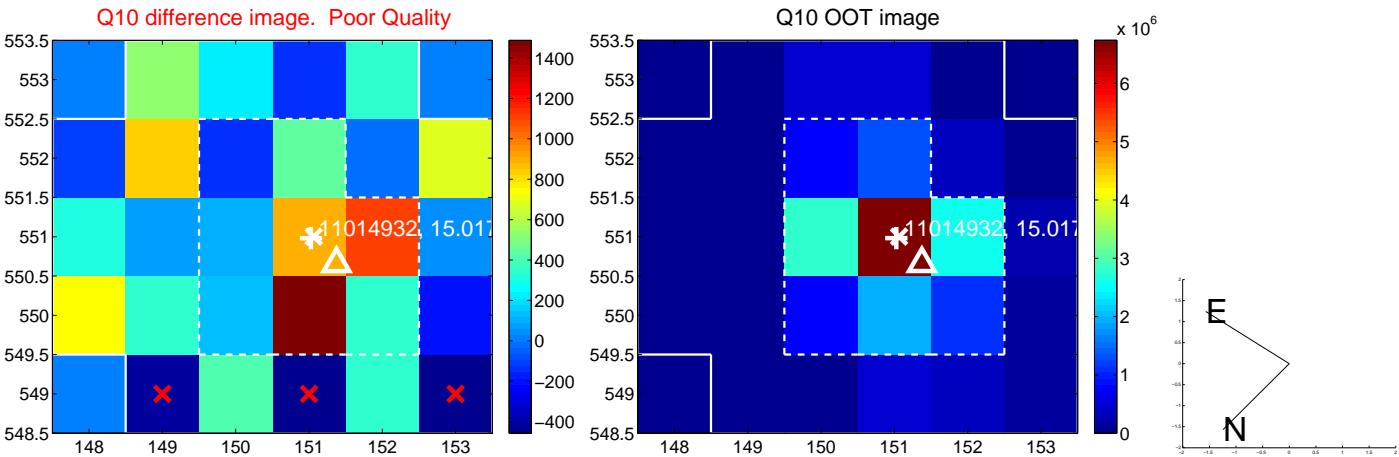
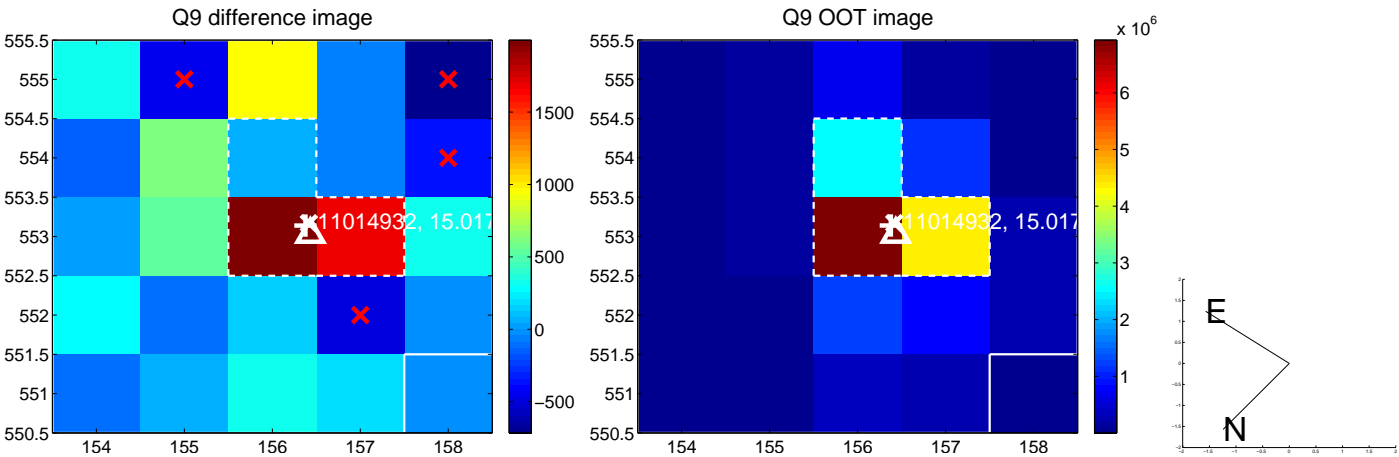
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



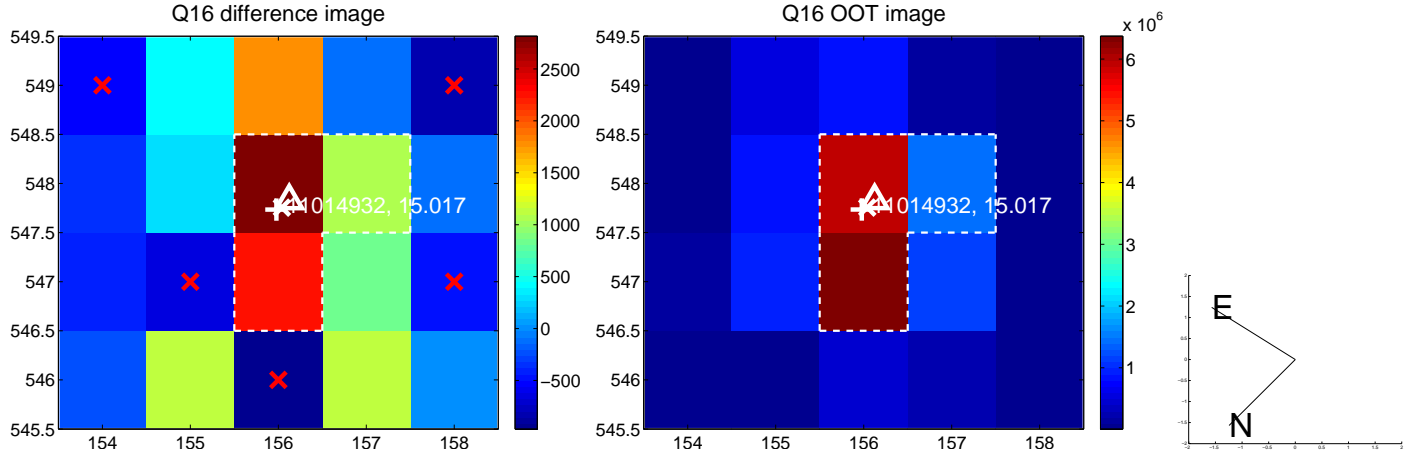
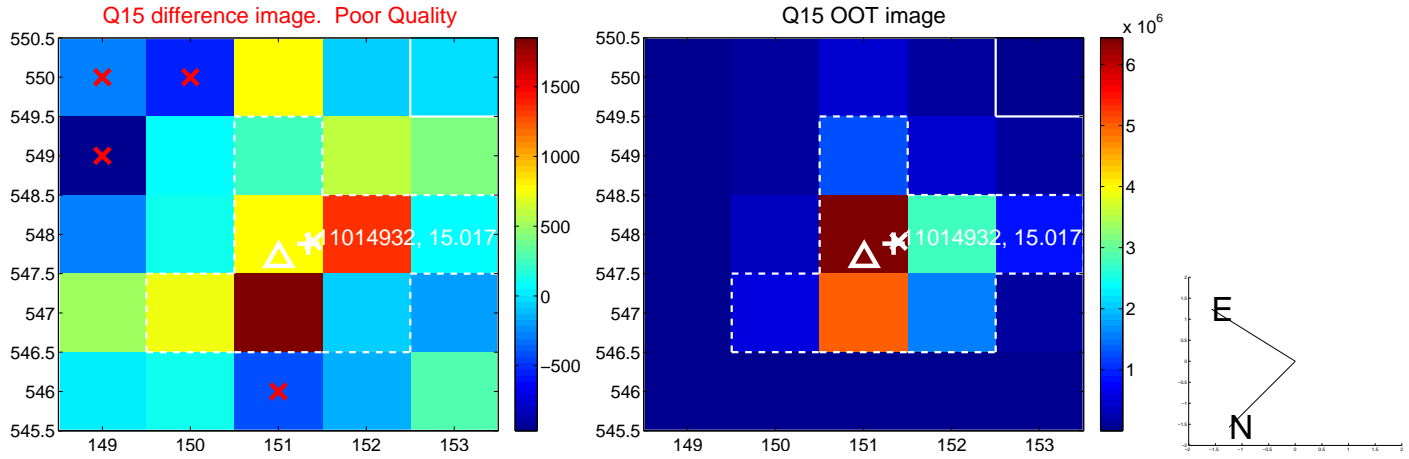
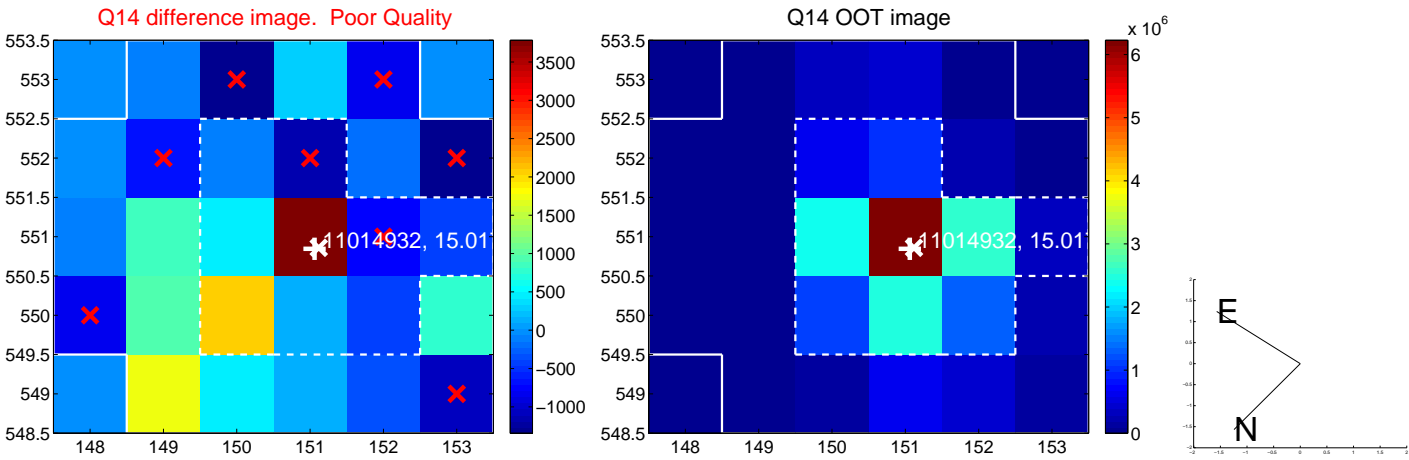
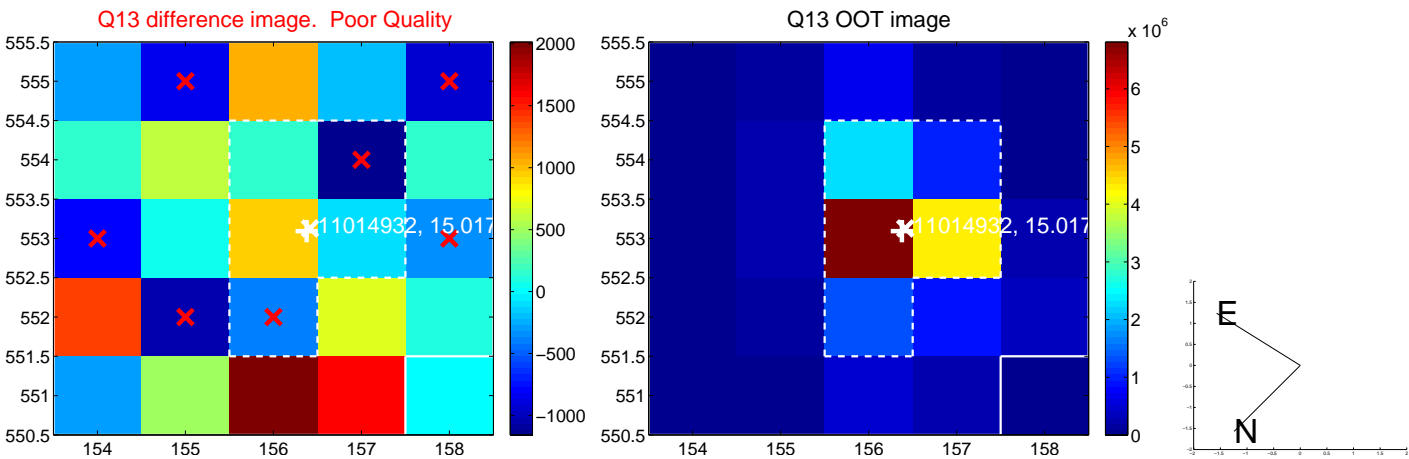
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



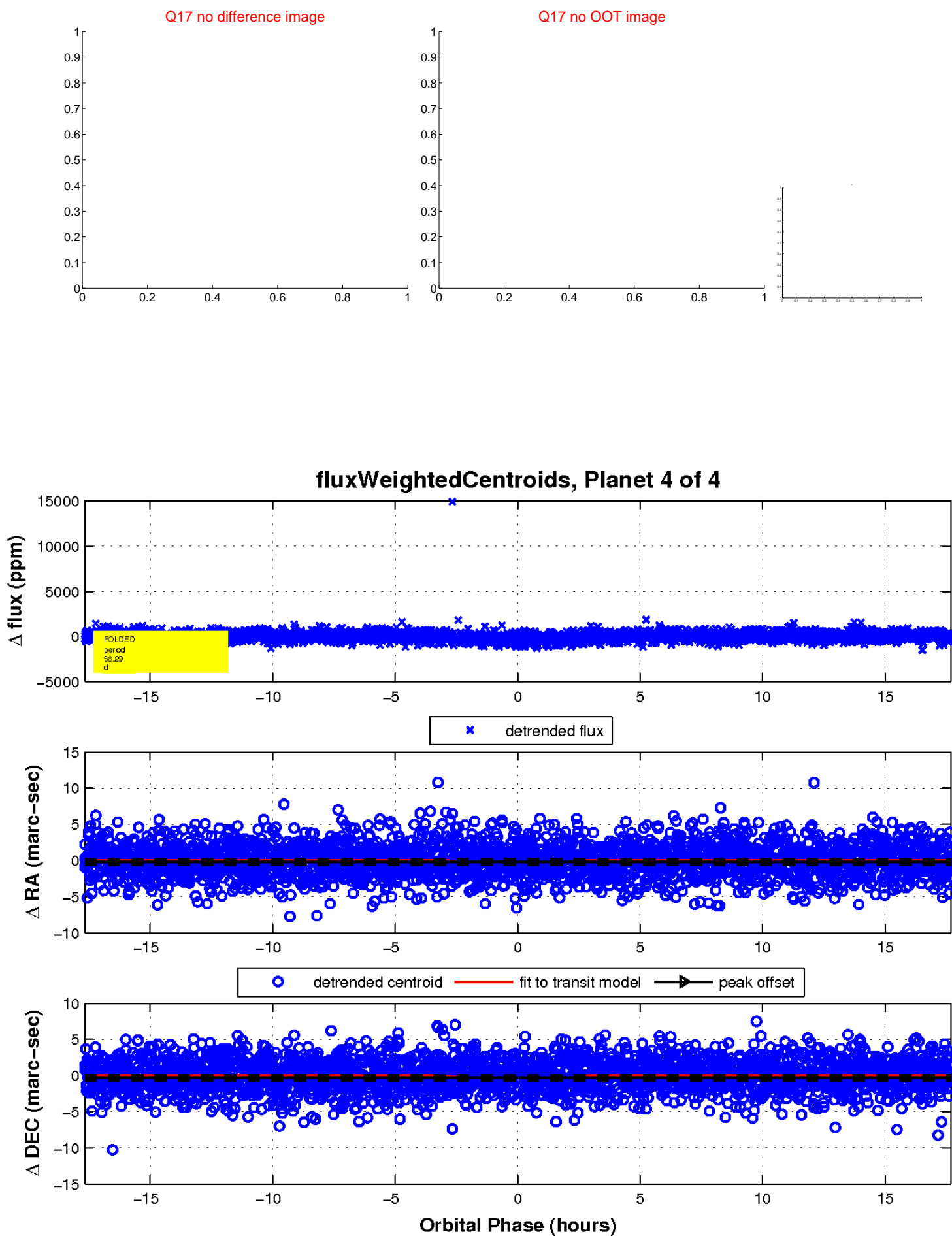
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



This plot does not exist for this TCE.