

KIC 001718189

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})
001718189-01	OBS	0993.01	21.853577	144.322286	354.0	3.601	19.6	21.6	0.88	5830	1.95	34.61
001718189-02	OBS	0993.02	13.060827	137.628466	266.3	4.302	16.7	18.4	0.88	5830	2.80	68.75
001718189-03	OBS	0993.03	86.723349	195.338063	231.6	5.832	7.7	9.0	0.88	5830	1.46	5.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
001718189-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
001718189-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
001718189-03	OBS	FP	0.15	0	1	0	0	DEPTH_ODDEVEN_DV—CENT_FEW_DIFFS

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

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

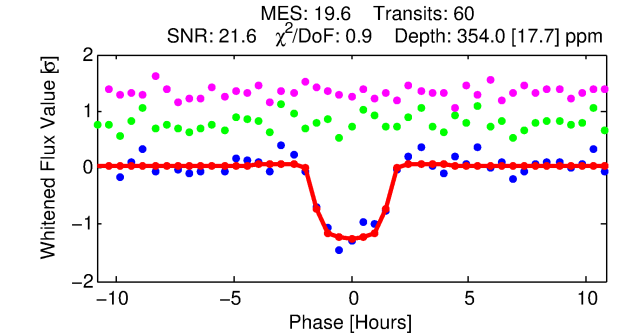
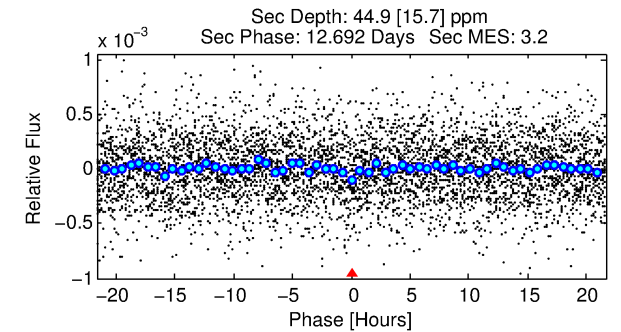
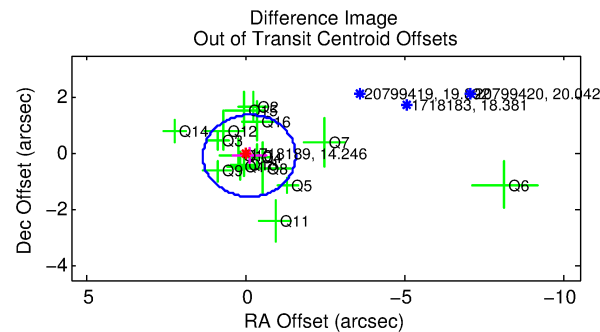
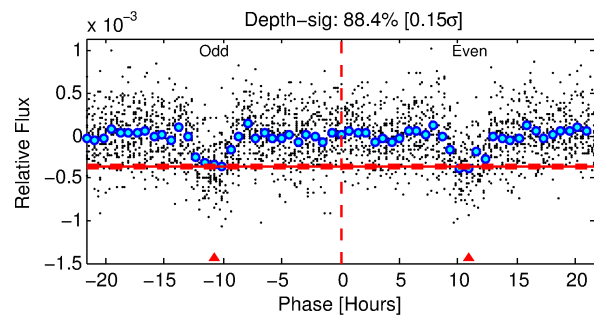
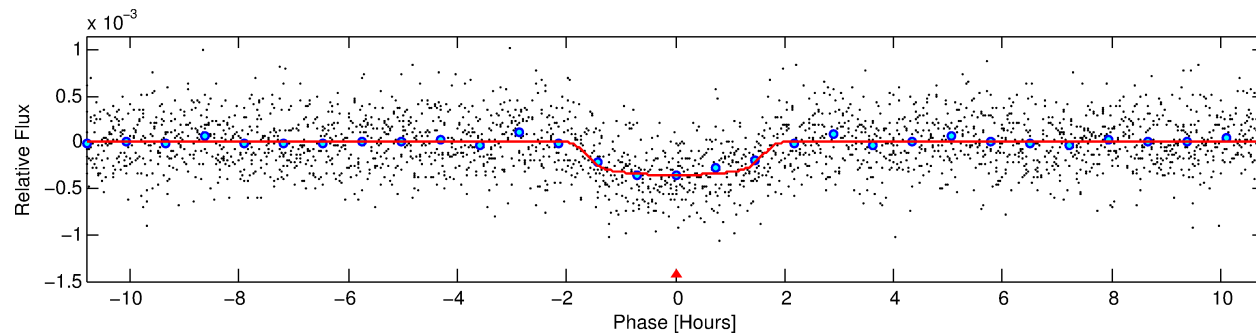
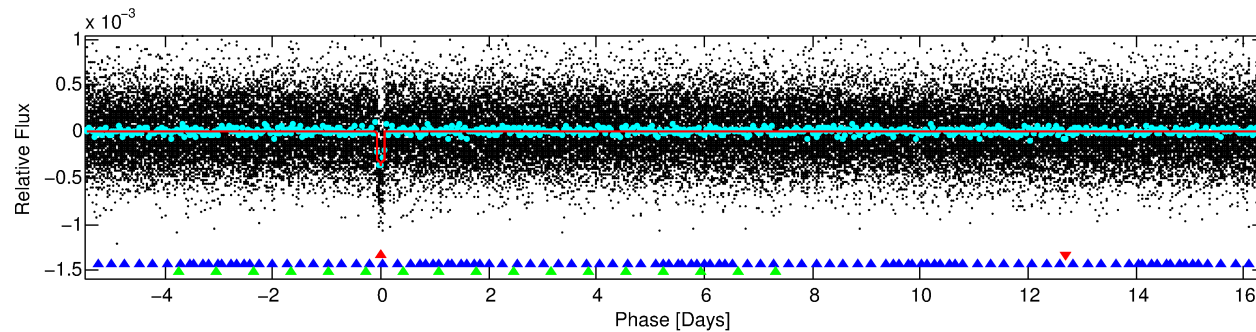
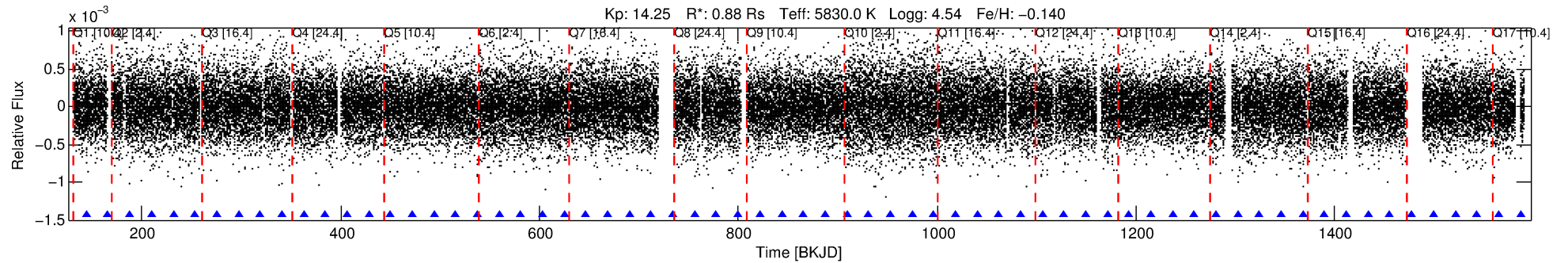
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 001718189-01

No Significant Match Found

DV One-Page Summary

KIC: 1718189 Candidate: 1 of 3 Period: 21.854 d
KOI: K00993.01 Name: Kepler-262c Corr: 0.964



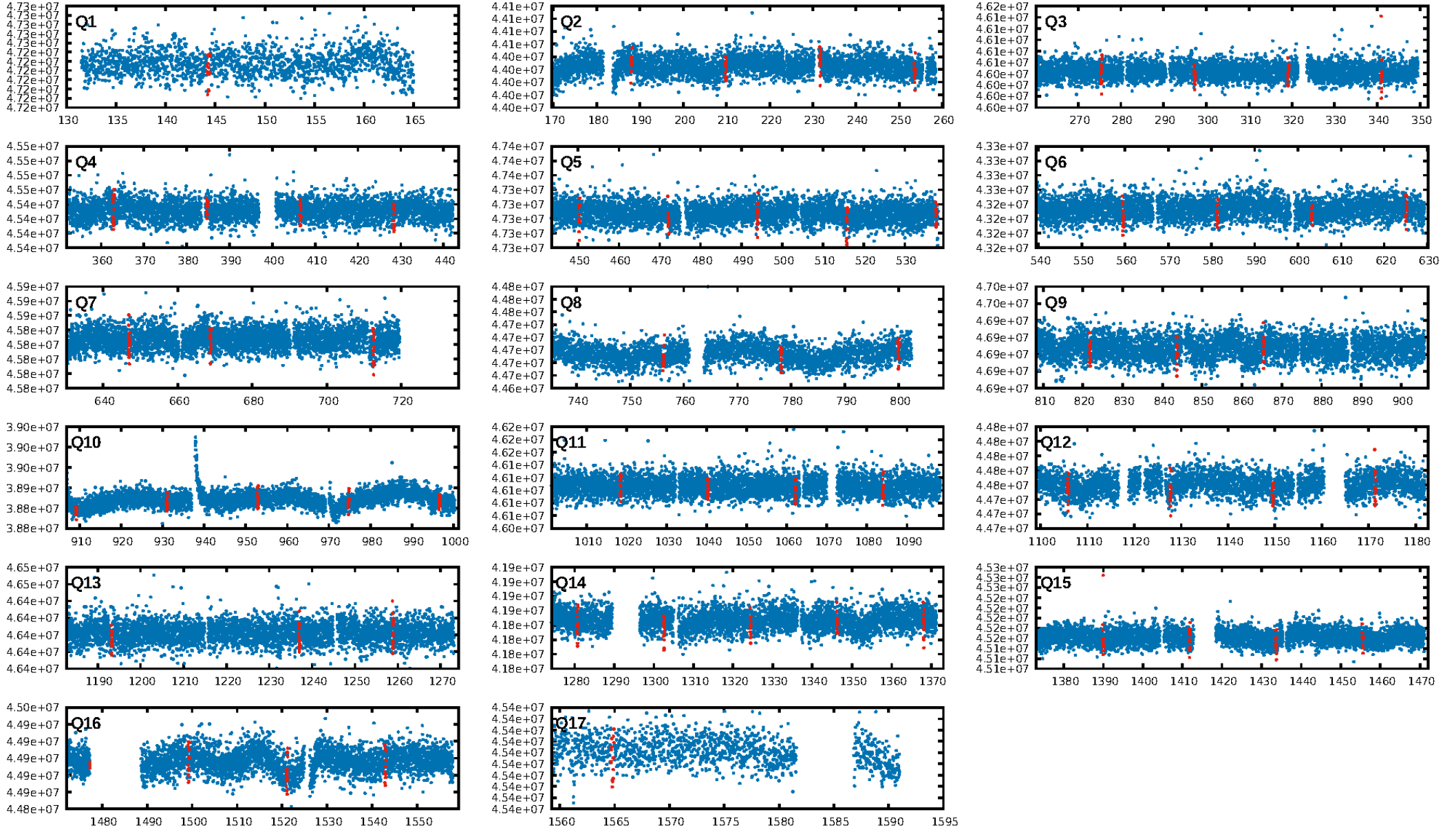
DV Fit Results:

Period = 21.85358 [0.00010] d
Epoch = 144.3223 [0.0038] BKJD
Rp/R* = 0.0204 [0.0034]
a/R* = 22.54 [18.07]
b = 0.90 [0.18]
Seff = 34.61 [12.30]
Teff = 618 [55] K
Rp = 1.95 [0.62] Re
a = 0.1515 [0.0346] AU
Ag = 149.21 [88.22] [1.68 σ]
Teffp = 3342 [416] K [6.49 σ]

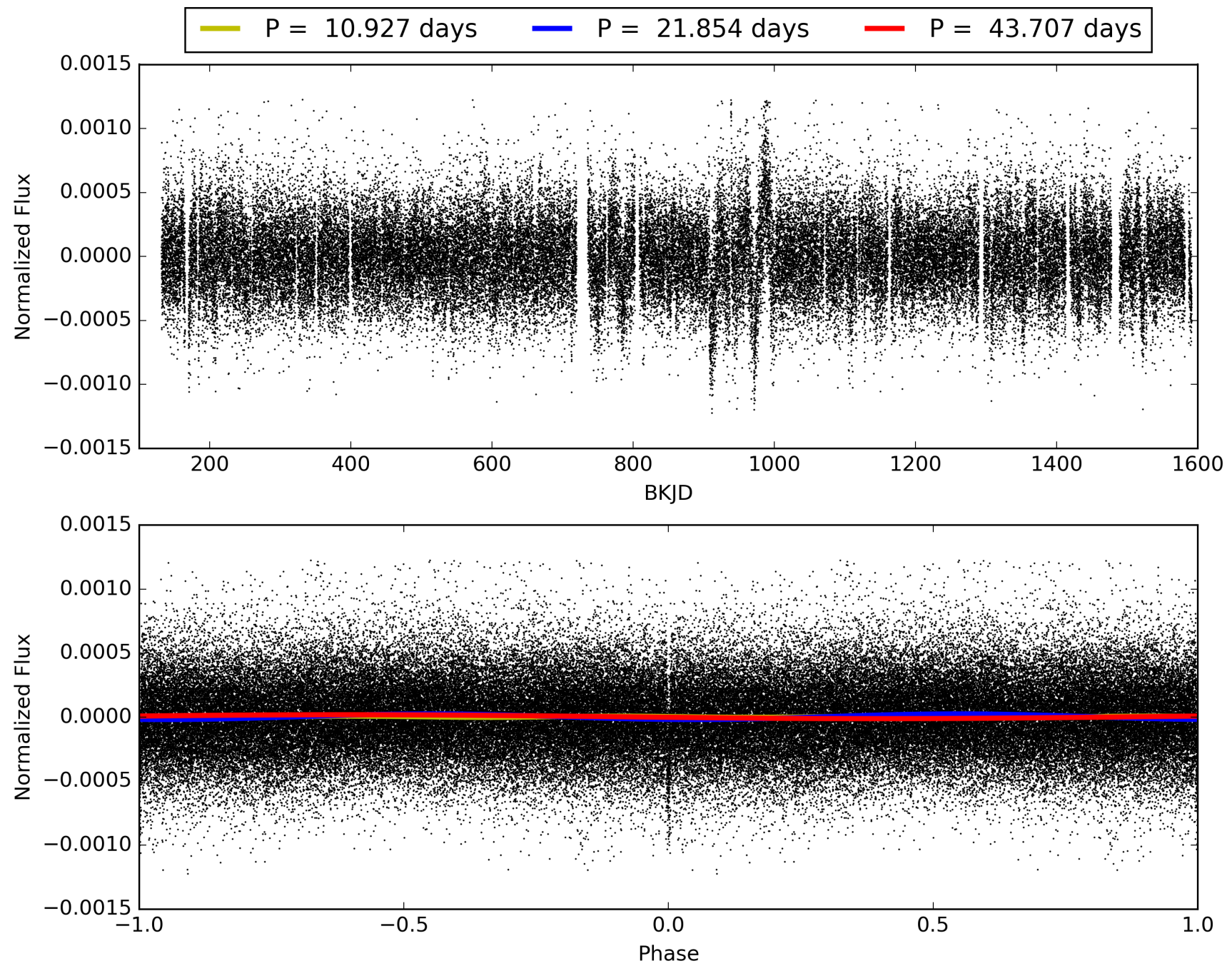
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [37.61 σ]
LongPeriod-sig: 100.0% [227.14 σ]
ModelChiSquare2-sig: 89.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 4.59e-83
RollingBand-fgt: 1.00 [58/58]
GhostDiagnostic-chr: 3.962
Centroid-sig: 46.8%
Centroid-so: 1.321 arcsec [2.04 σ]
OotOffset-rm: 0.131 arcsec [0.27 σ]
KicOffset-rm: 0.075 arcsec [0.18 σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.88 [14/16]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 001718189-01, PDC Light Curves

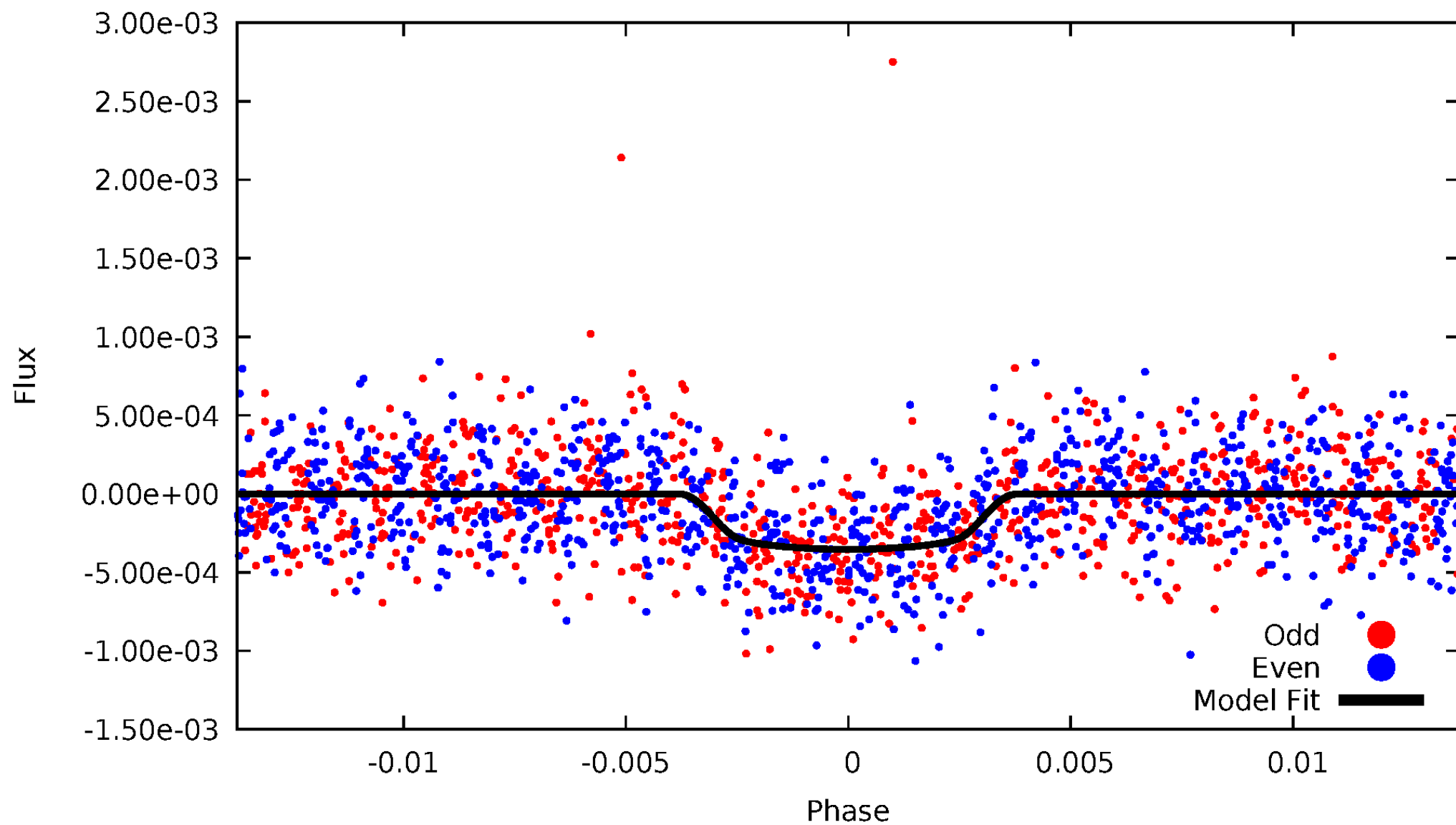


TCE 001718189-01



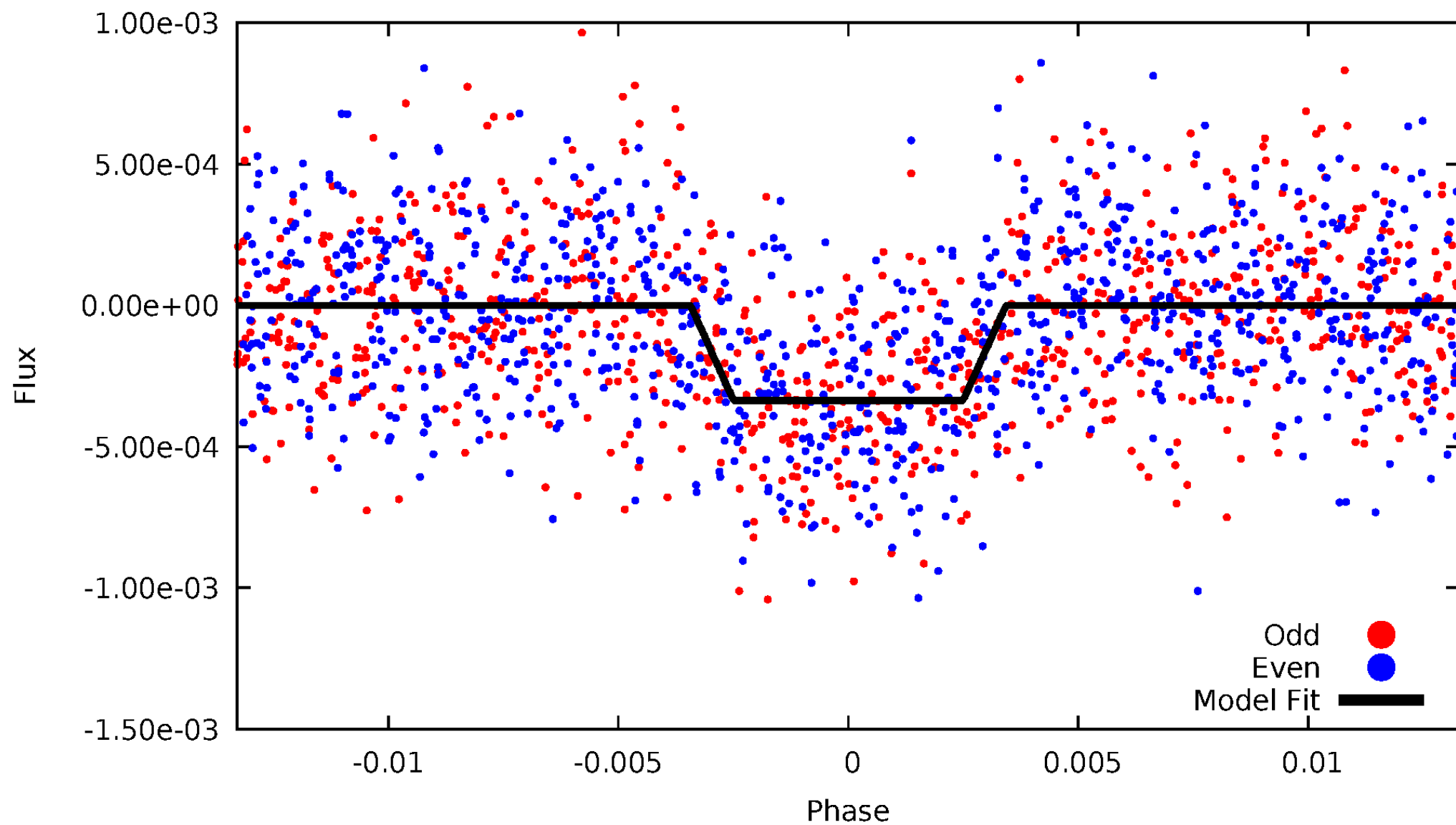
DV Odd/Even

TCE 001718189-01

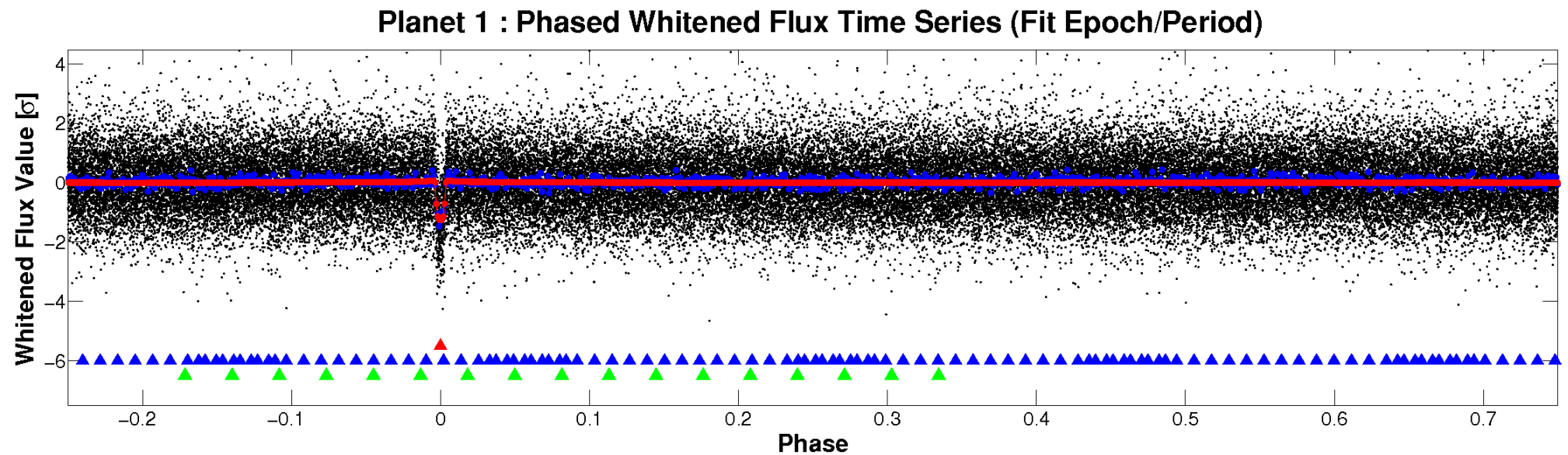
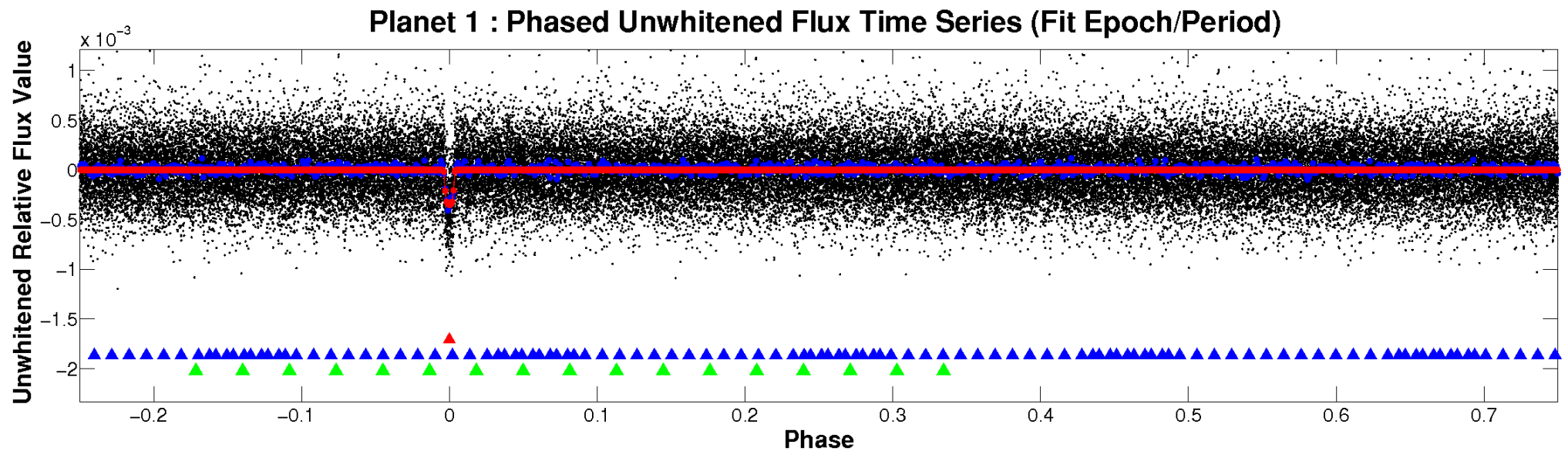


ALT Odd/Even

TCE 001718189-01

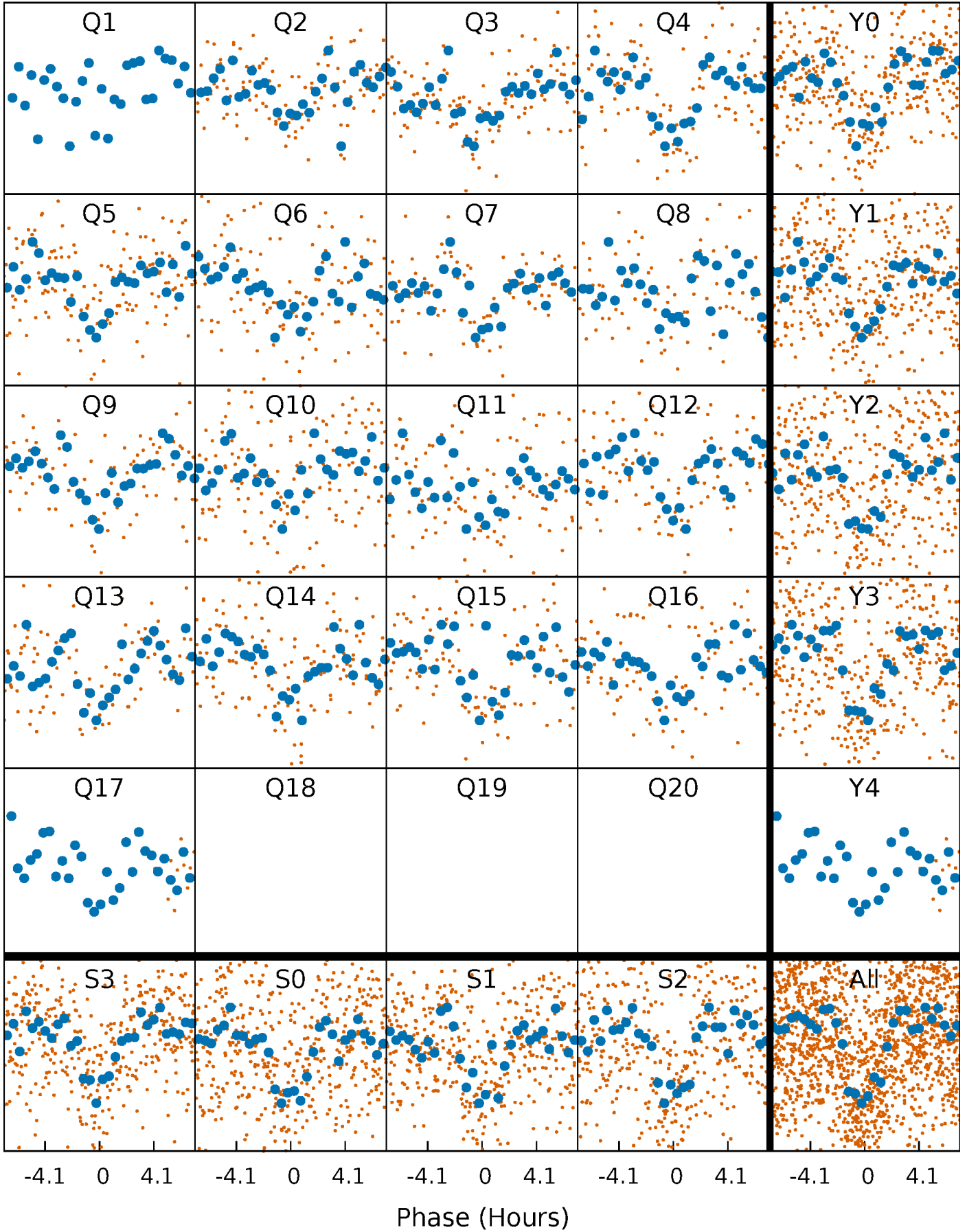


Non-Whitened Vs. Whitened Light Curve



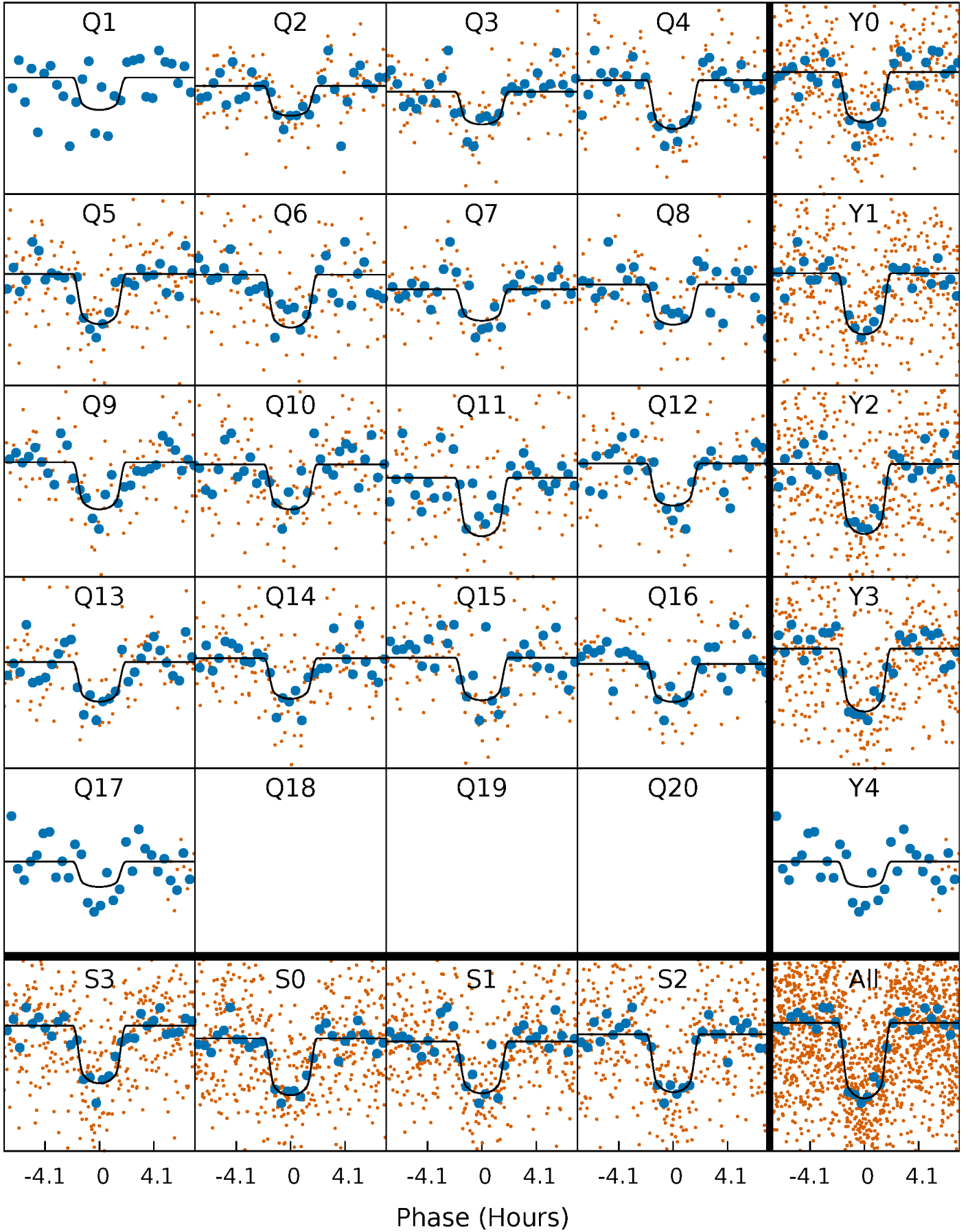
PDC Quarter-Phased Transit Curves

TCE 001718189-01 P= 21.853577 Days $T_0=144.322286$ (BKJD)



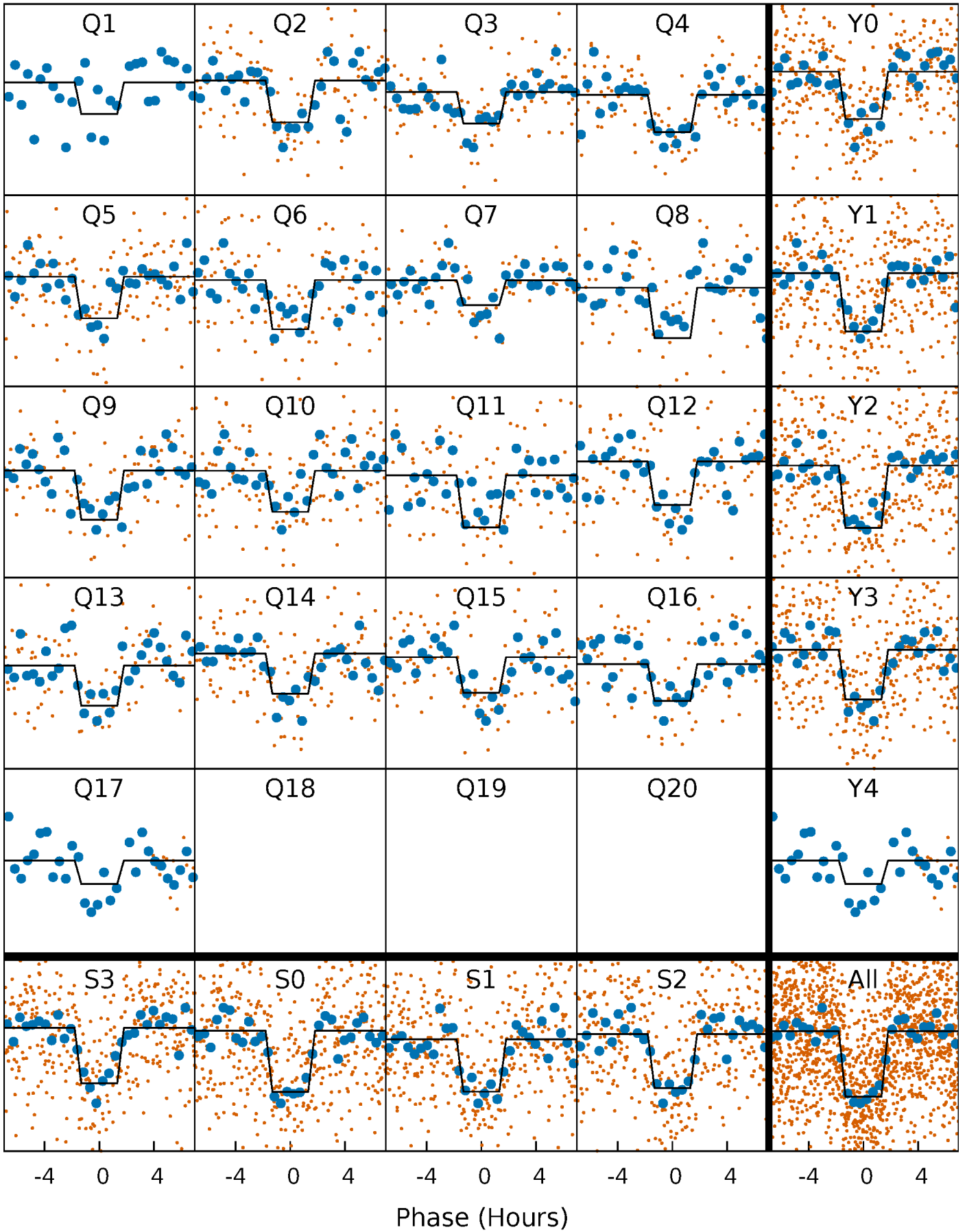
DV Quarter-Phased Transit Curves

TCE 001718189-01 P= 21.853577 Days $T_0=144.322286$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

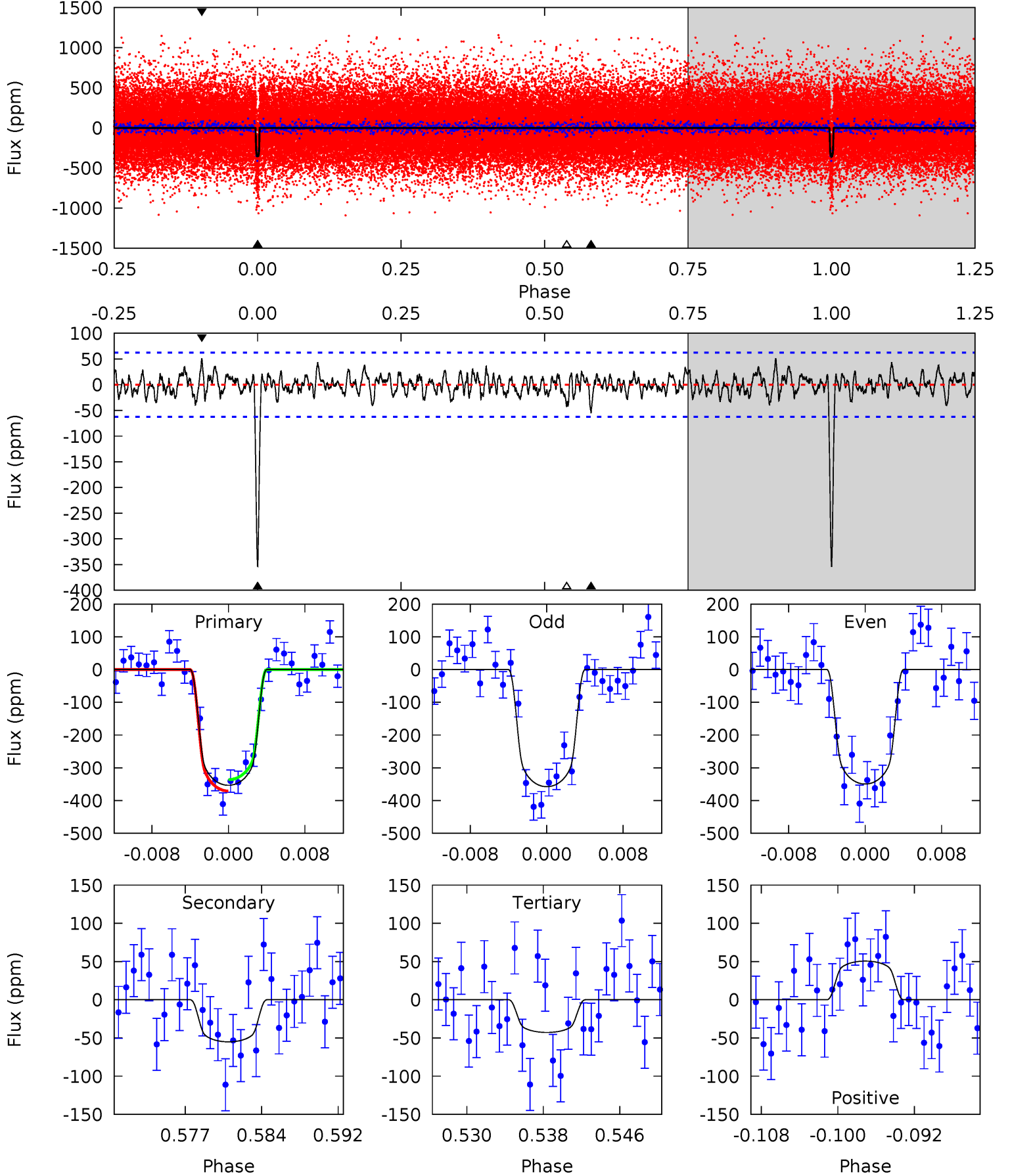
TCE 001718189-01 P= 21.853535 Days $T_0=144.324330$ (BKJD)



DV Model-Shift Uniqueness Test

001718189-01, P = 21.853577 Days, E = 122.468709 Days

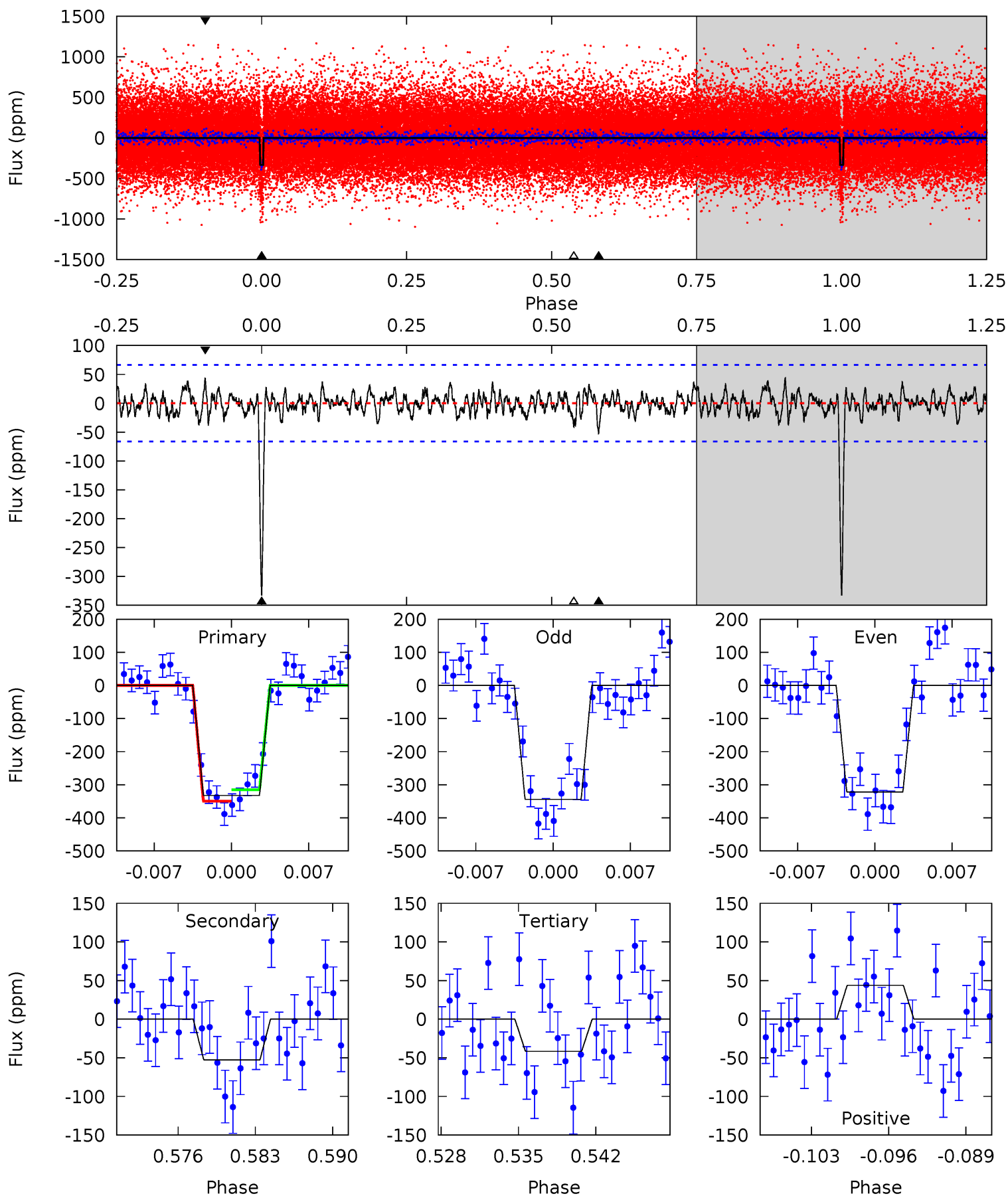
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.7	4.48	3.48	4.11	5.08	2.67	1.22	25.2	24.6	1.00	0.36	0.33	1.00	0.13	1.41



Alt Model-Shift Uniqueness Test

001718189-01, P = 21.853535 Days, E = 122.470795 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.5	4.05	3.20	3.37	5.10	2.70	1.10	22.3	22.1	0.85	0.68	0.86	1.03	0.12	1.32



Stellar Parameters For KIC 001718189

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5830^{+146}_{-161}	$4.540^{+0.044}_{-0.187}$	$-0.140^{+0.300}_{-0.300}$	$0.876^{+0.234}_{-0.078}$	$0.970^{+0.099}_{-0.122}$	$2.036^{+0.369}_{-0.992}$
	+3%/-3%	+1%/-4%	+214%/-214%	+27%/-9%	+10%/-13%	+18%/-49%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 001718189-01 / KOI 0993.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-55 ± 12	$2.04^{+0.43}_{-0.40}$	883^{+55}_{-40}	3869^{+287}_{-255}	162^{+92}_{-58}
Alt.	-53 ± 13	$1.84^{+0.39}_{-0.39}$	882^{+62}_{-37}	3980^{+351}_{-291}	190^{+123}_{-74}

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 $A_{obs} \gg 1.0$

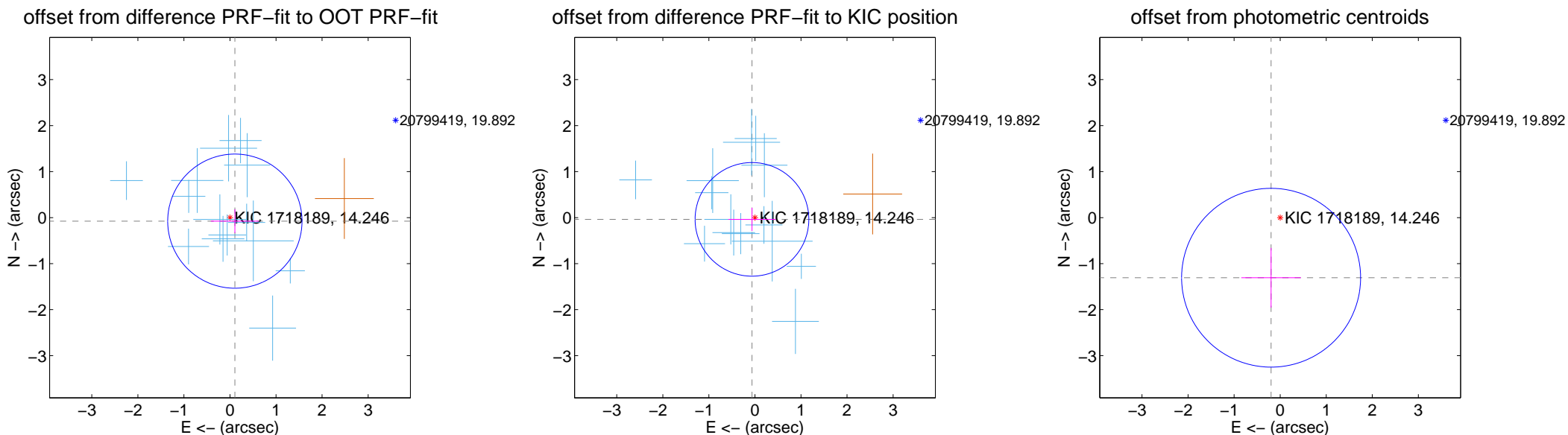
DV Centroid Data

Supplemental centroid analysis for 001718189-01. Kepler magnitude: 14.25. Transit SNR 21.63

There are 14 quarters with good PRF difference image offsets

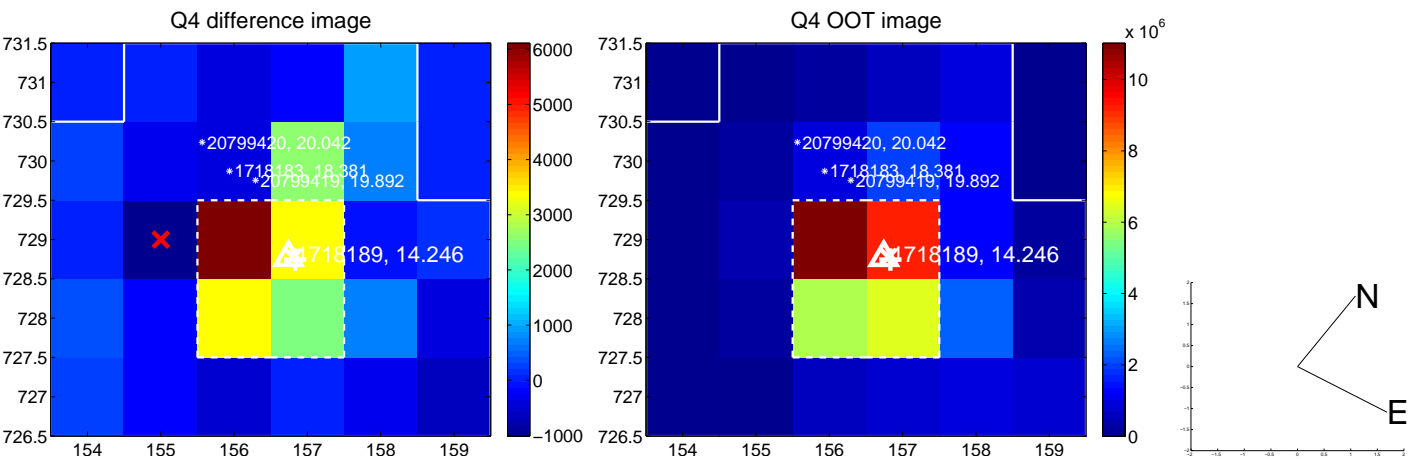
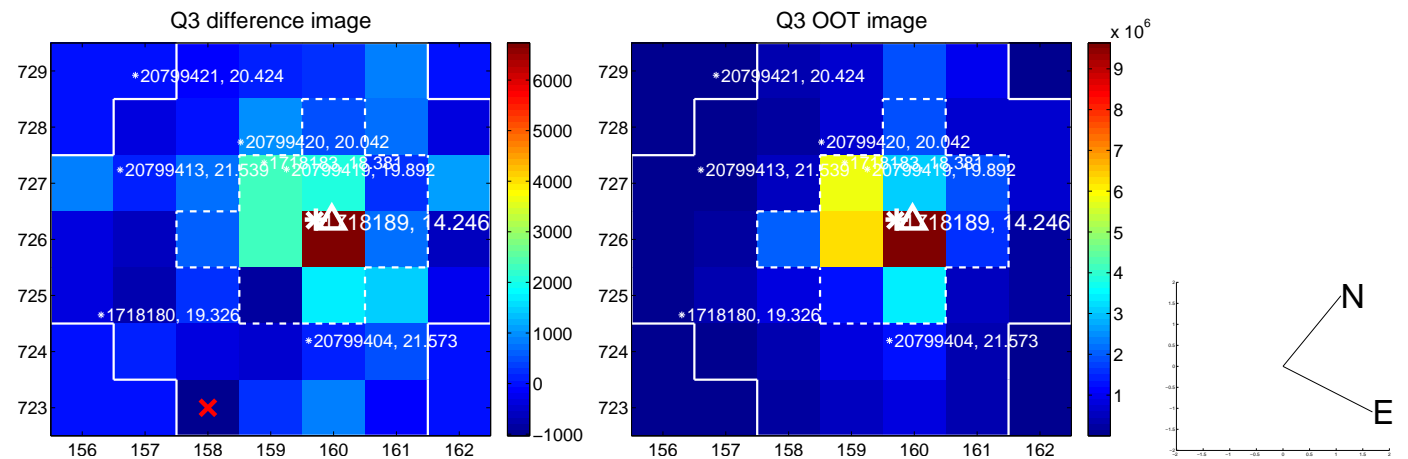
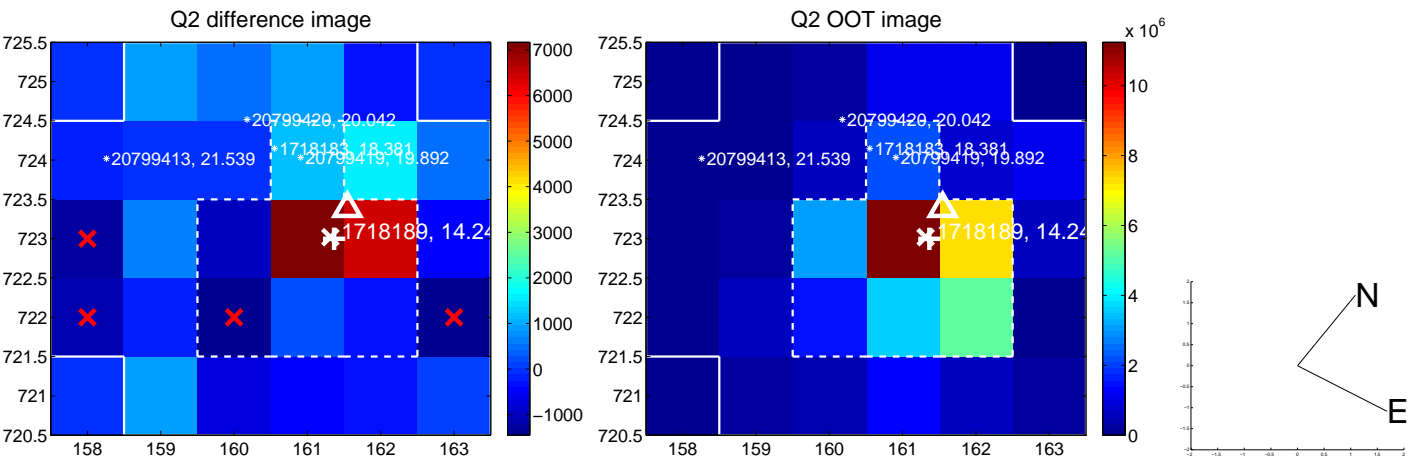
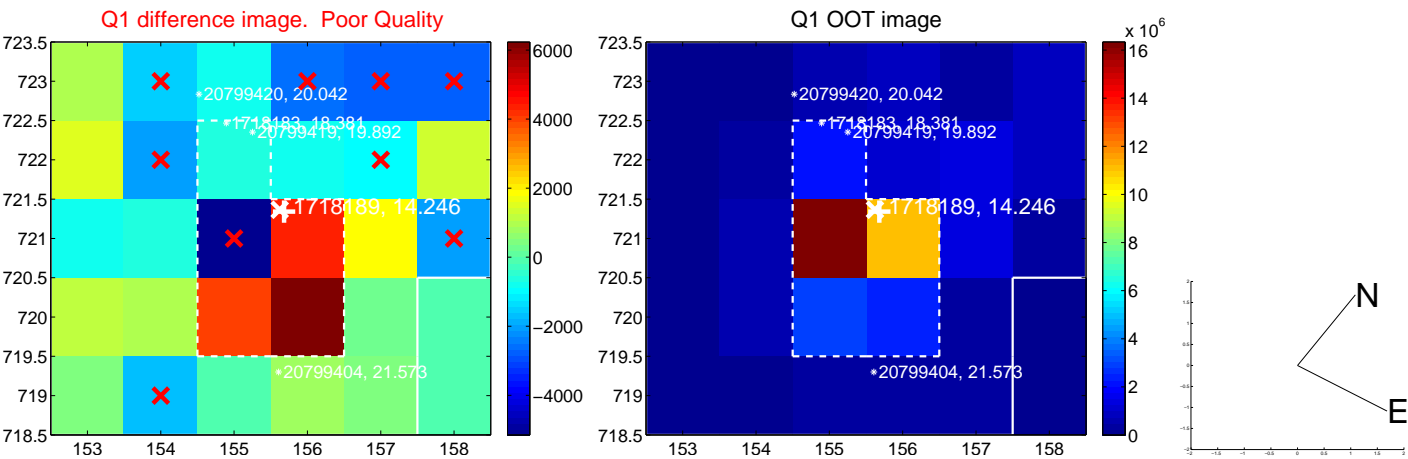
The direct PRF centroid is offset from the target star catalog position by about 0.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.131 ± 0.486	0.27	-0.106 ± 0.521	-0.076 ± 0.258
PRF-fit source offset from KIC position	0.075 ± 0.412	0.18	0.065 ± 0.513	-0.038 ± 0.253
photometric centroid source offset	1.32 ± 0.65	2.04	0.20 ± 0.65	-1.31 ± 0.65

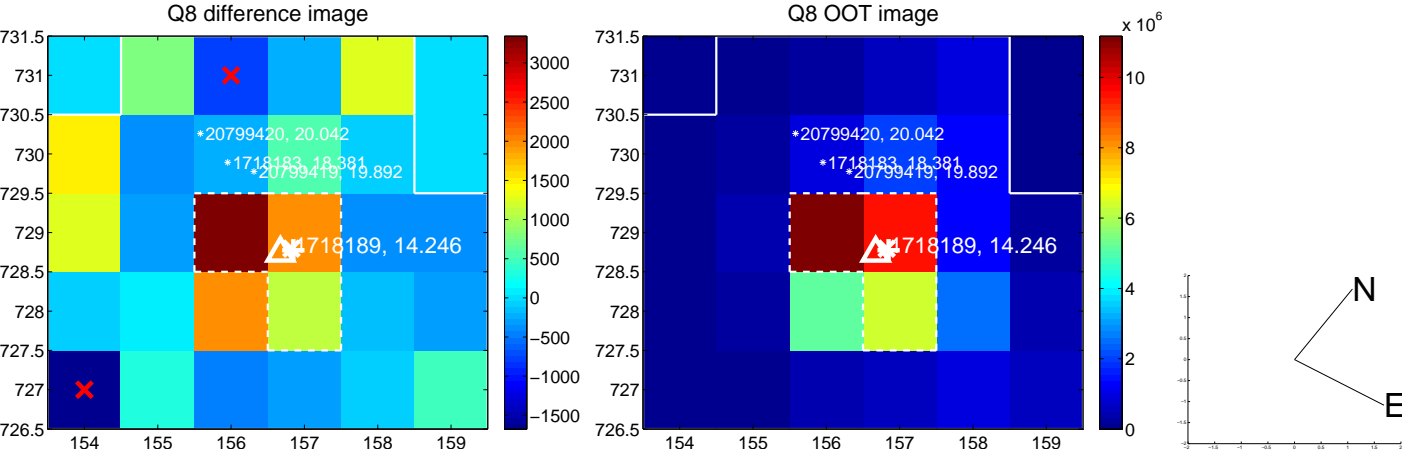
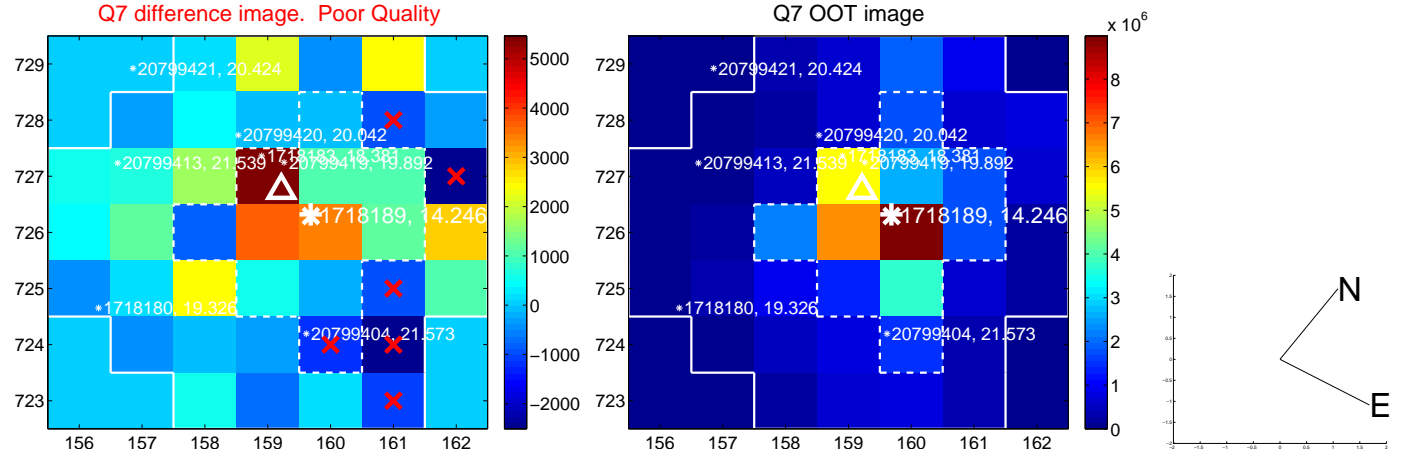
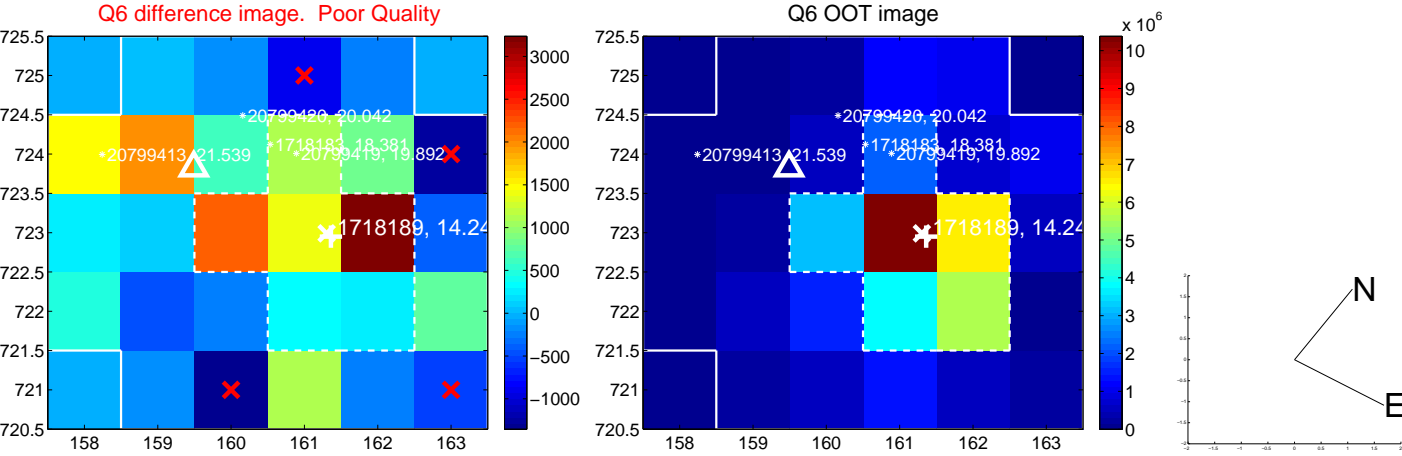
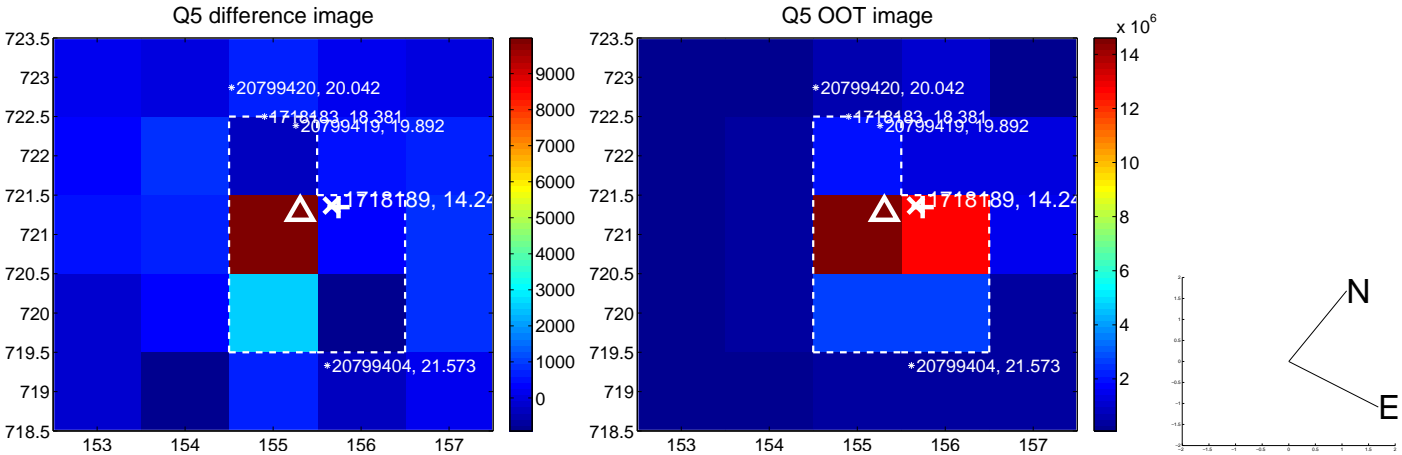


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

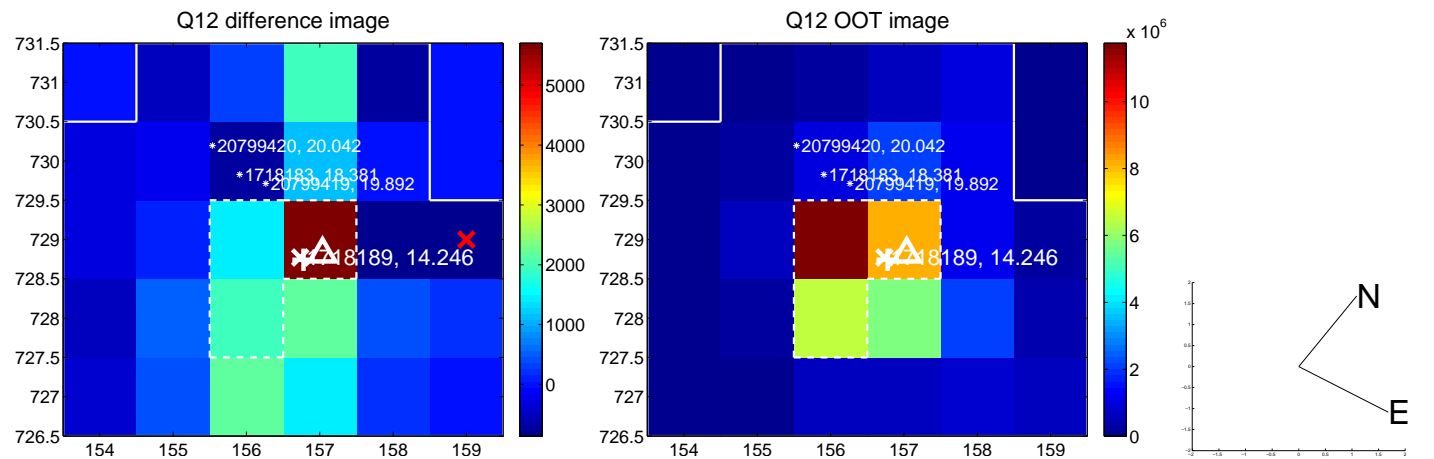
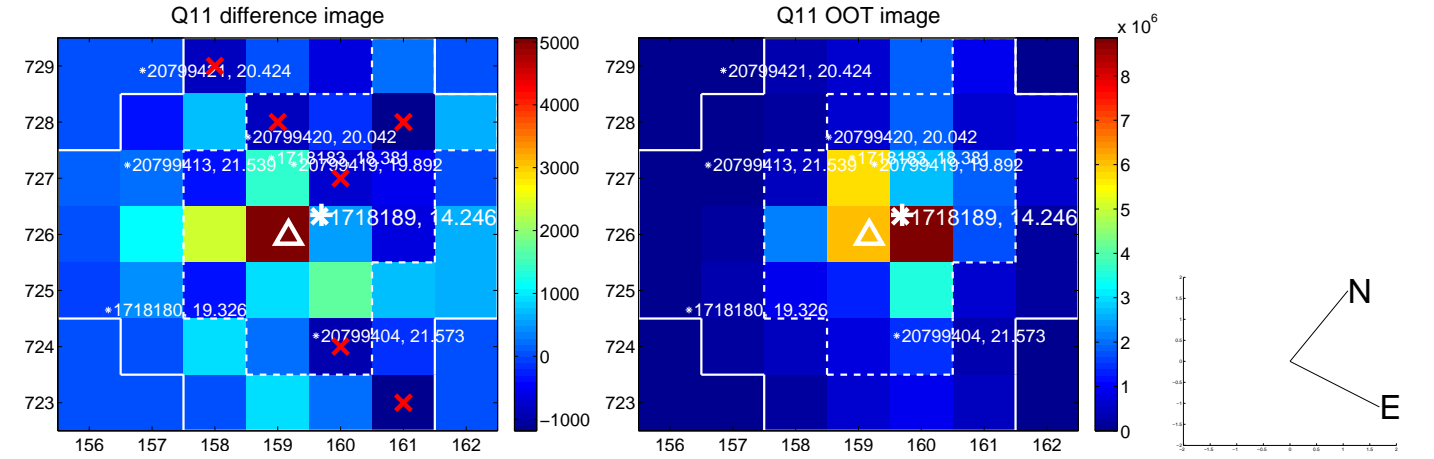
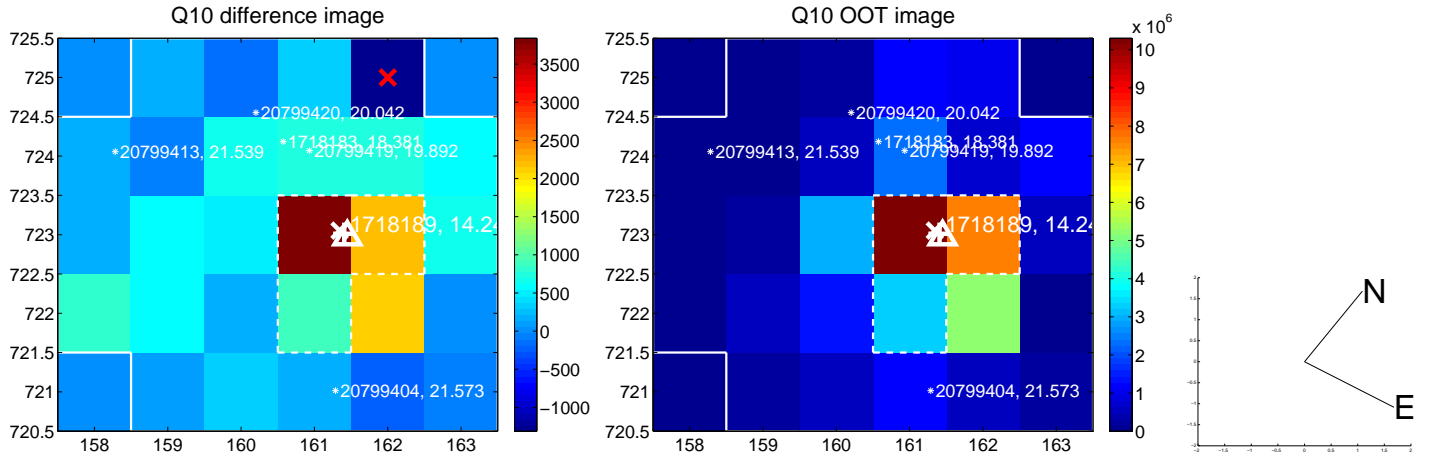
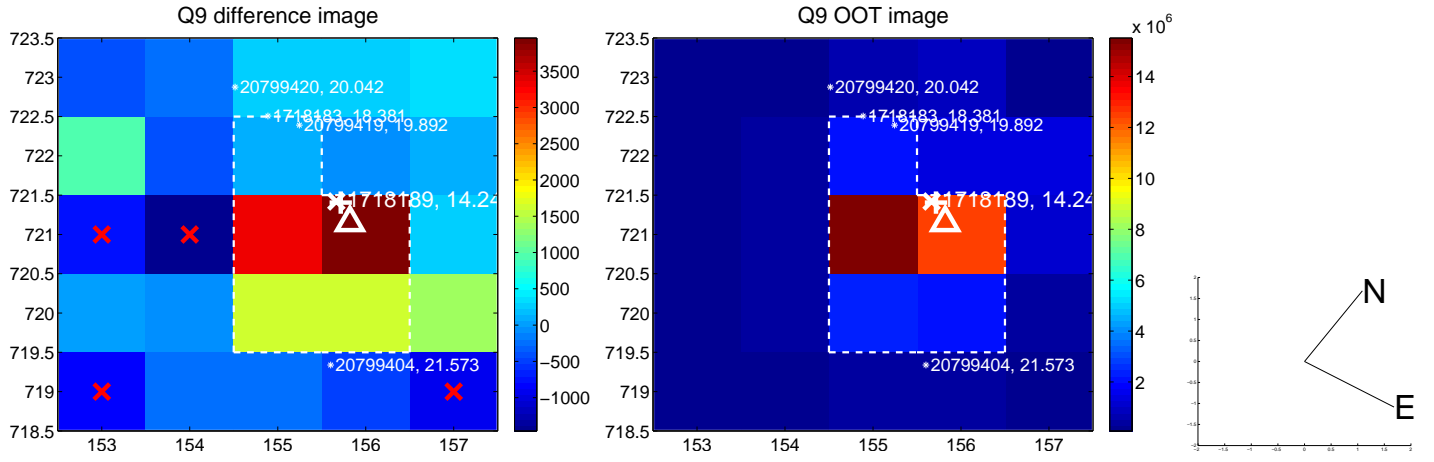
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



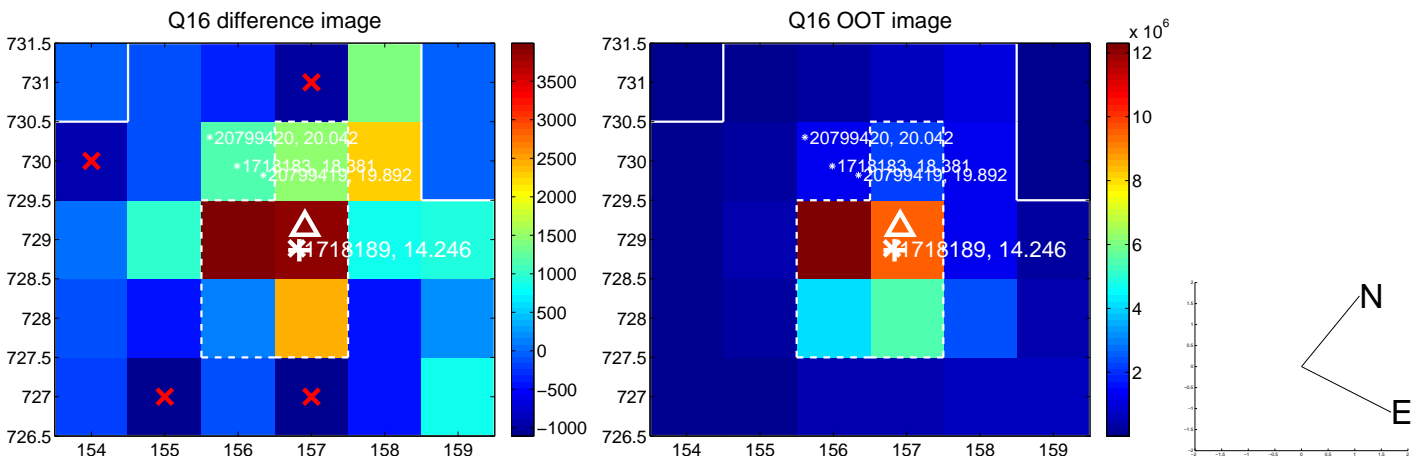
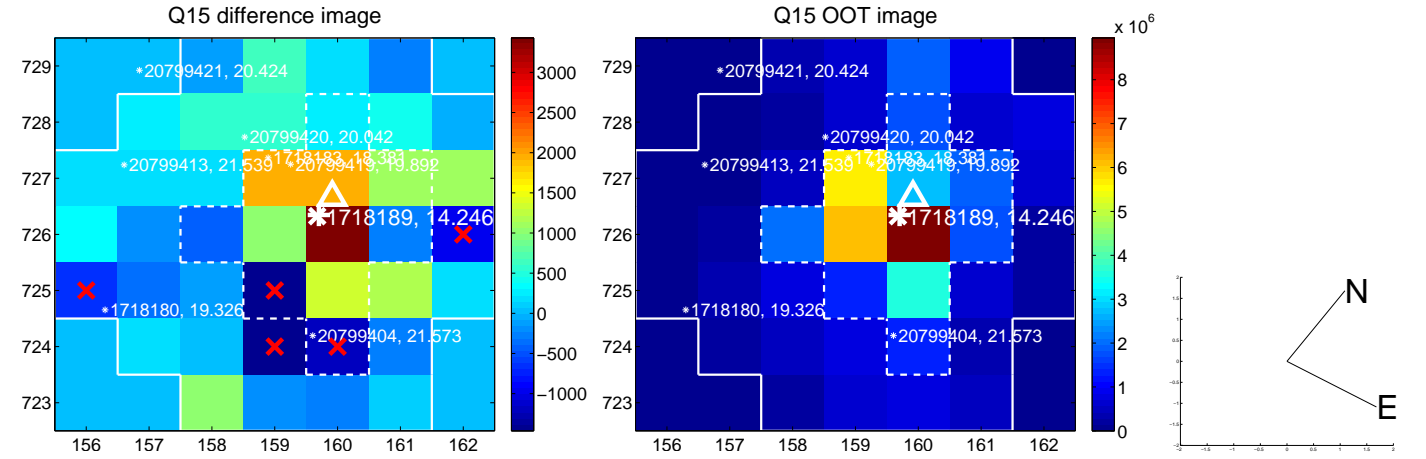
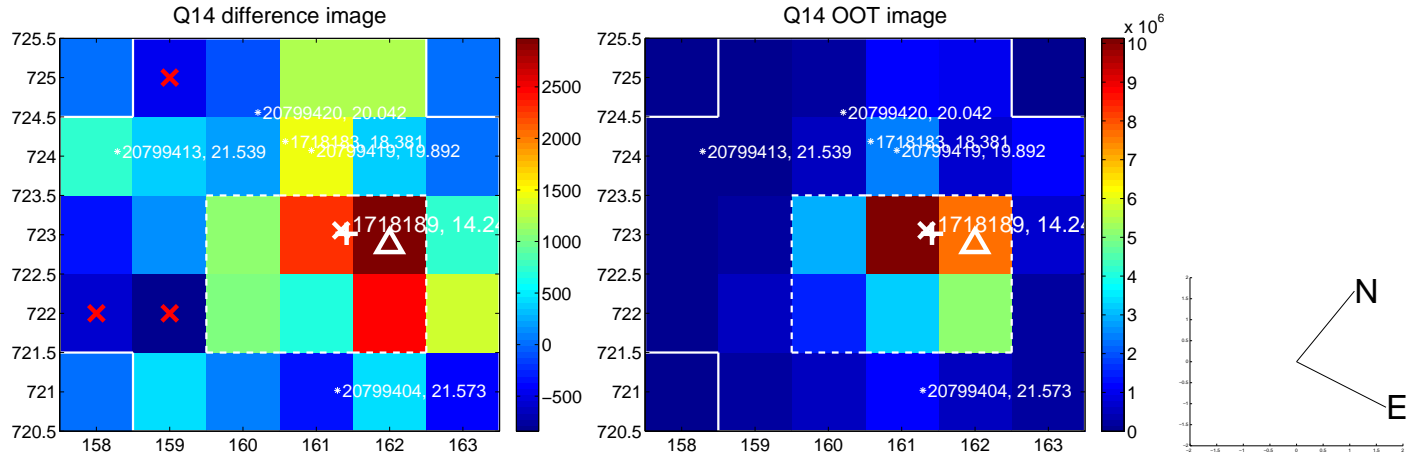
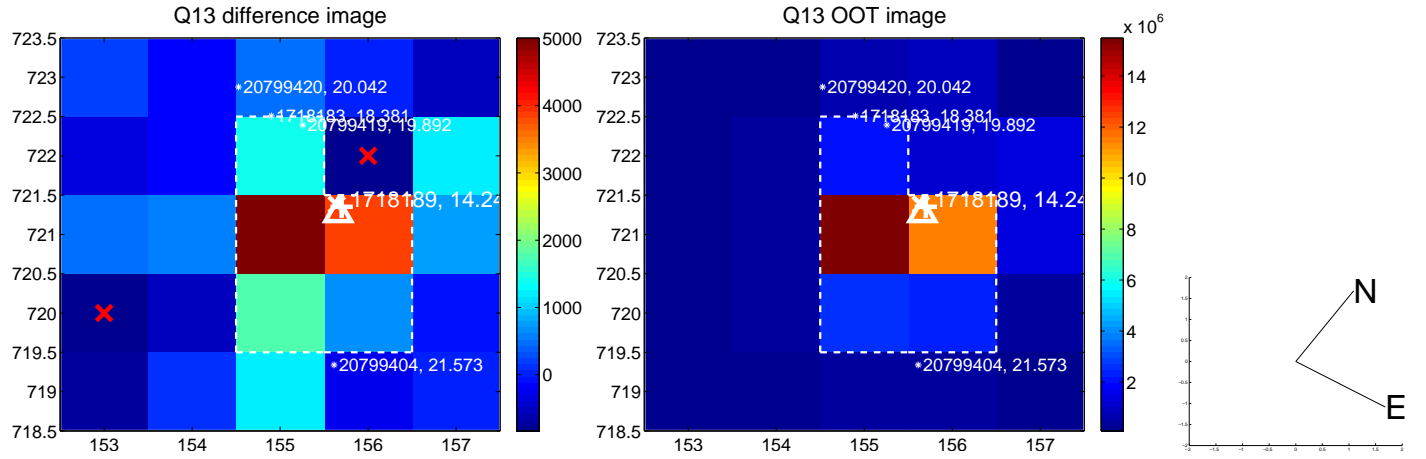
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



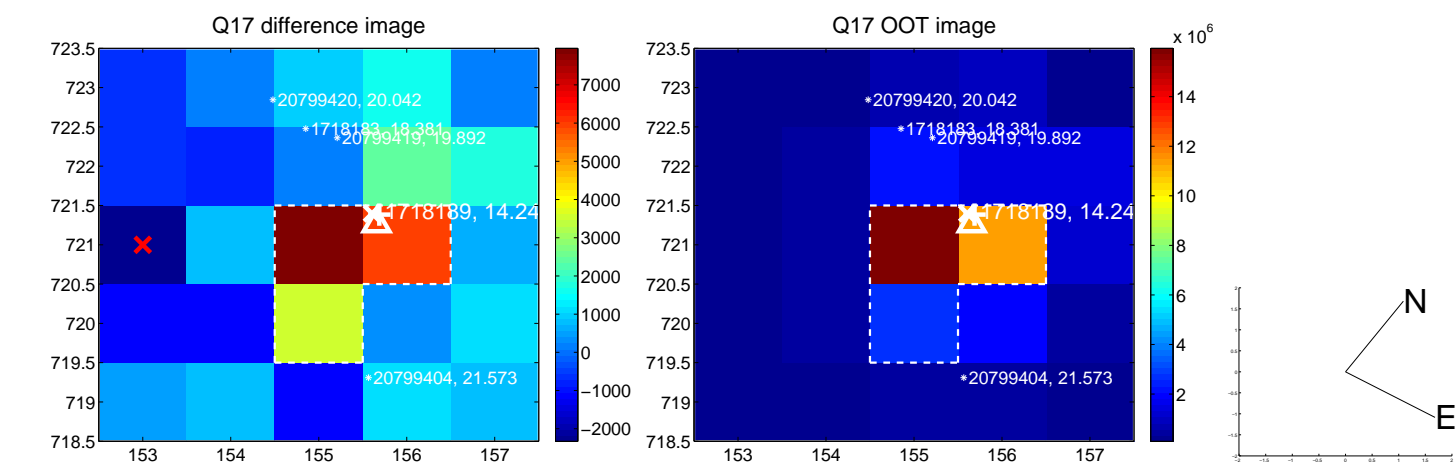
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



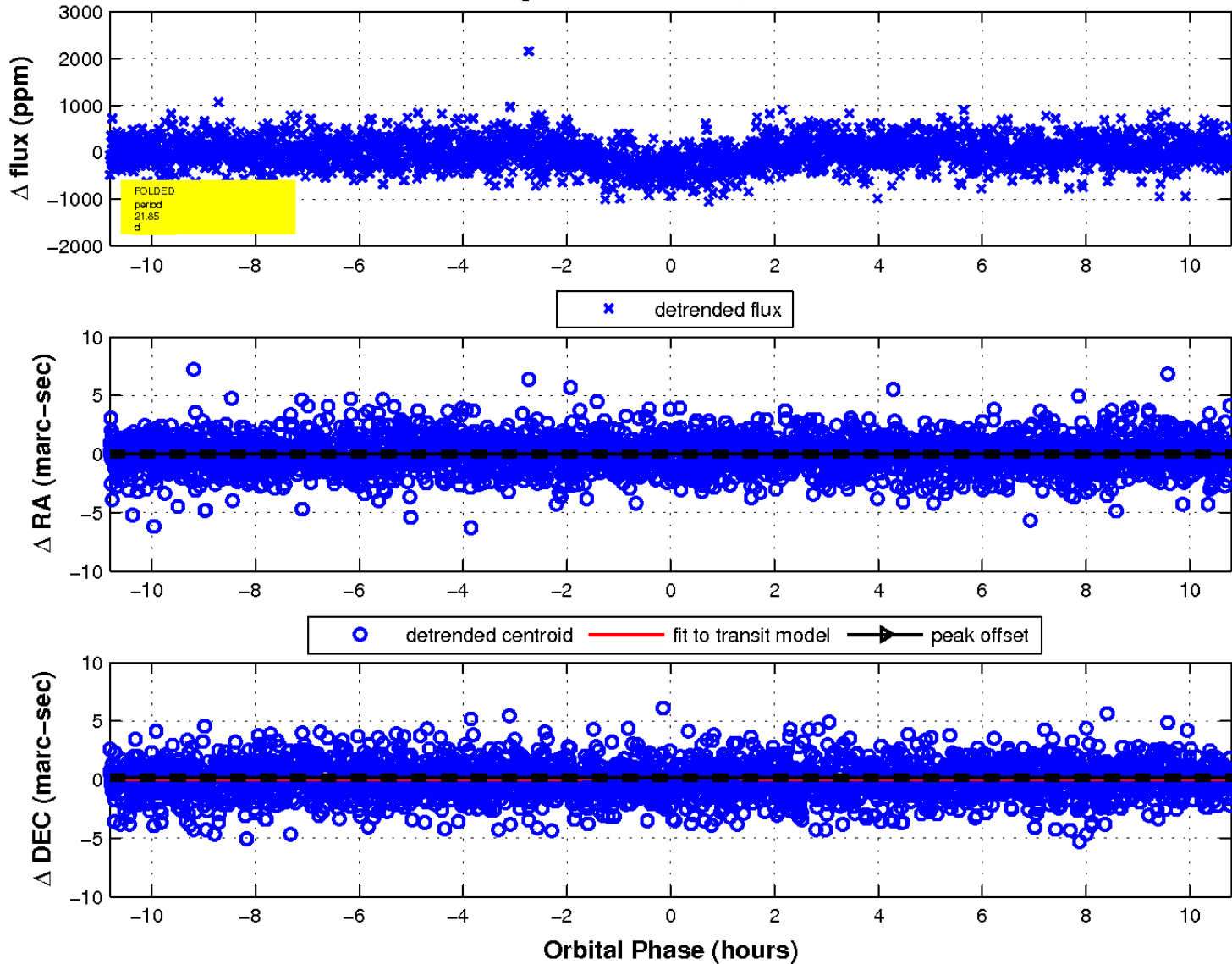
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

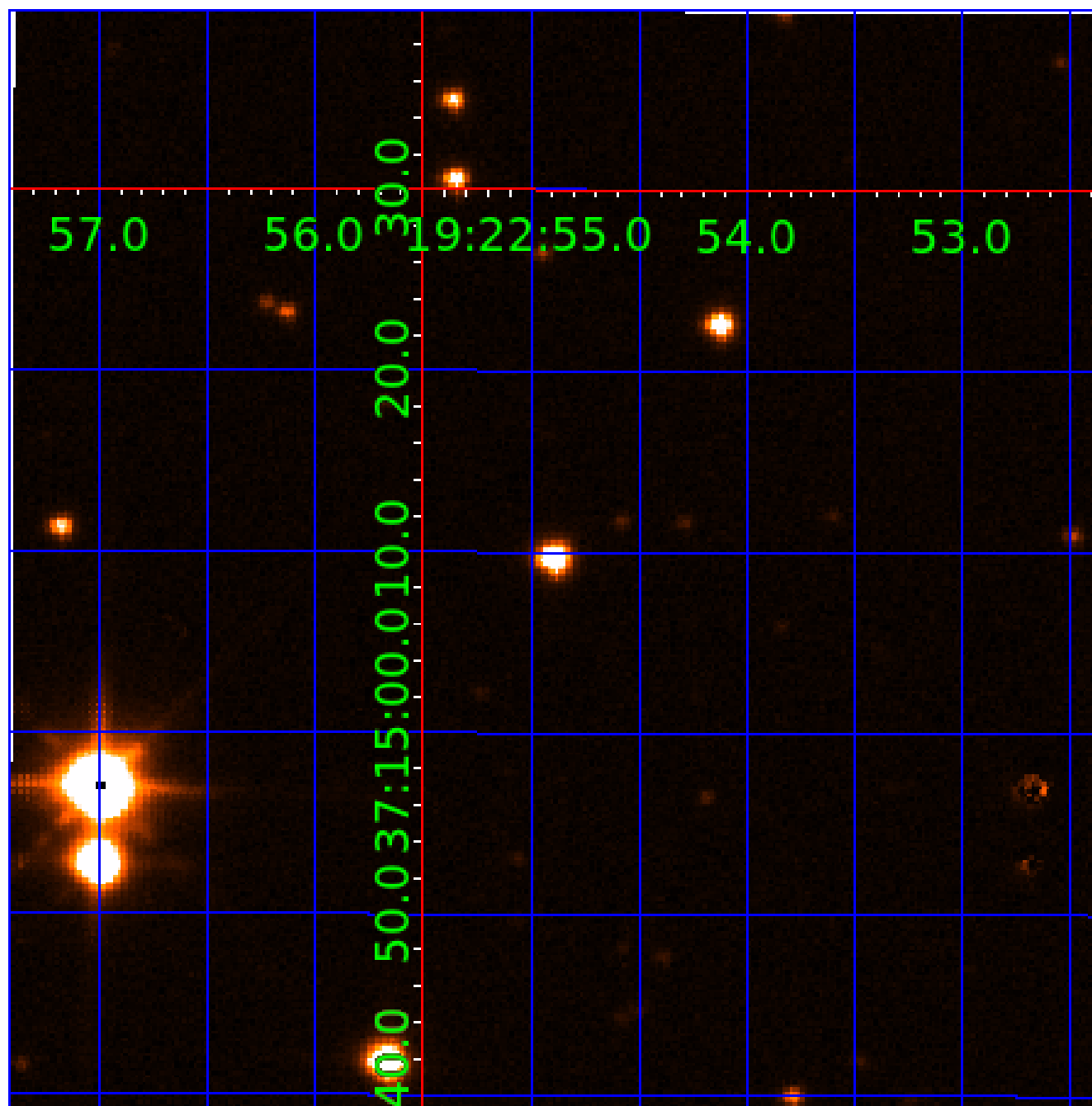


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 001718189

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})
001718189-01	OBS	0993.01	21.853577	144.322286	354.0	3.601	19.6	21.6	0.88	5830	1.95	34.61
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001718189-03	OBS	0993.03	86.723349	195.338063	231.6	5.832	7.7	9.0	0.88	5830	1.46	5.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
001718189-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
001718189-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
001718189-03	OBS	FP	0.15	0	1	0	0	DEPTH_ODDEVEN_DV—CENT_FEW_DIFFS

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

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

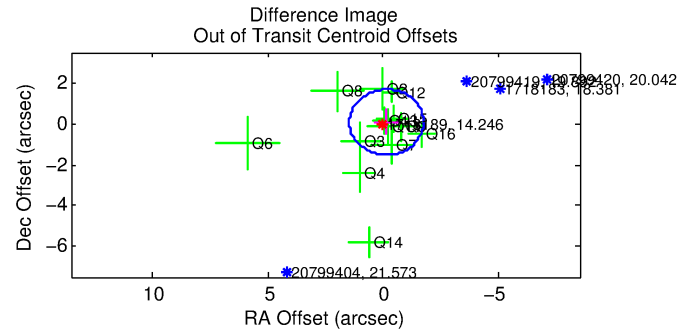
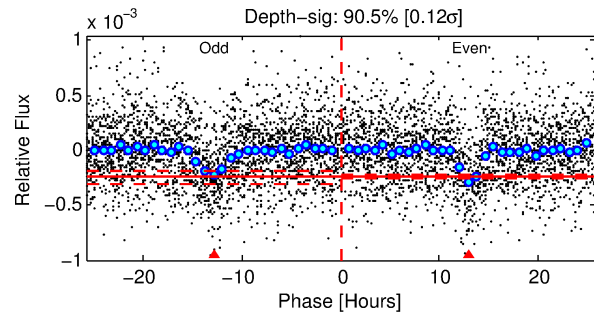
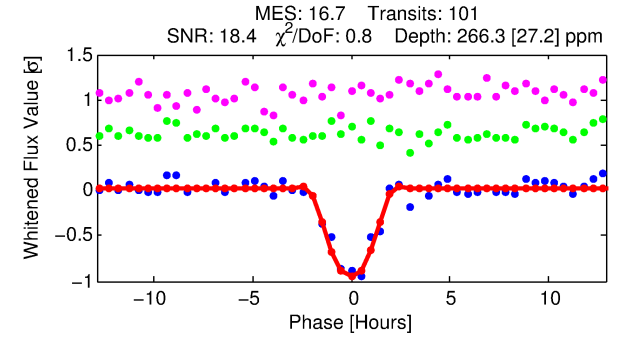
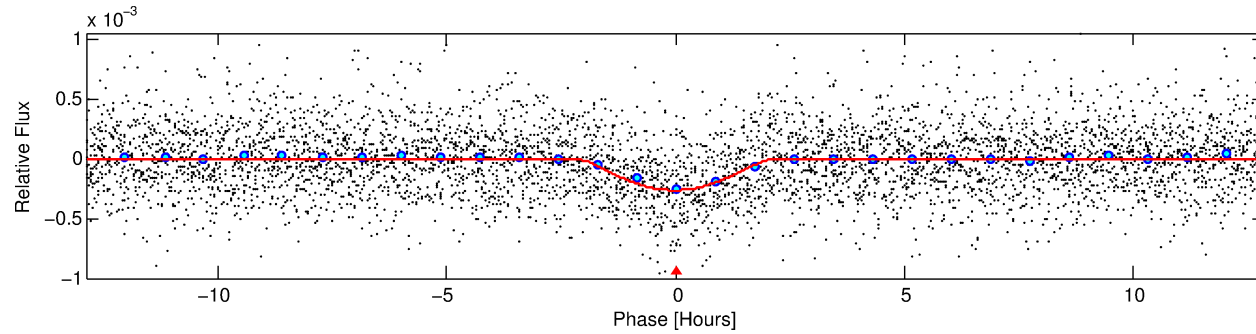
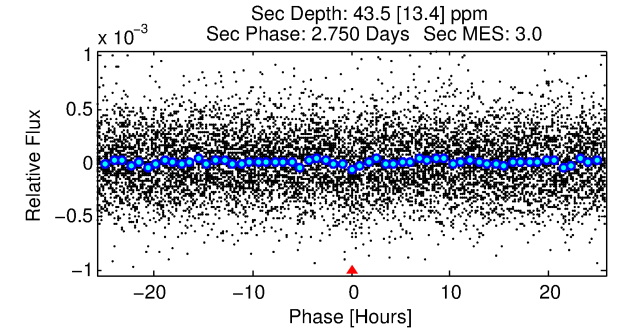
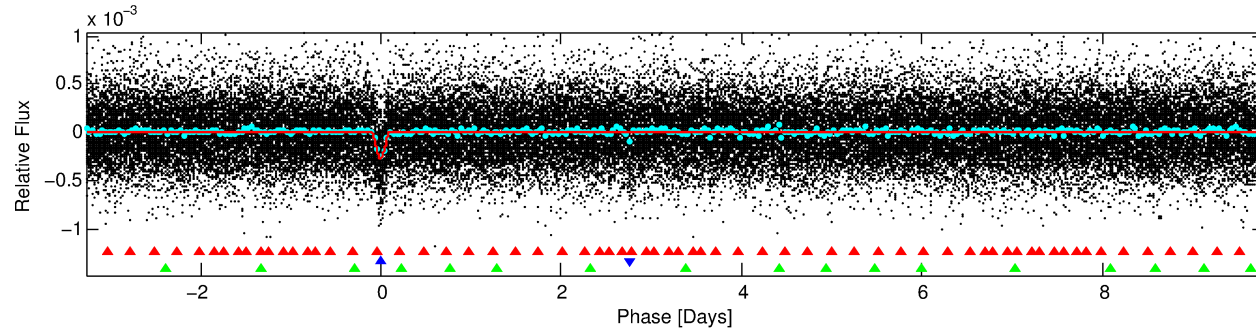
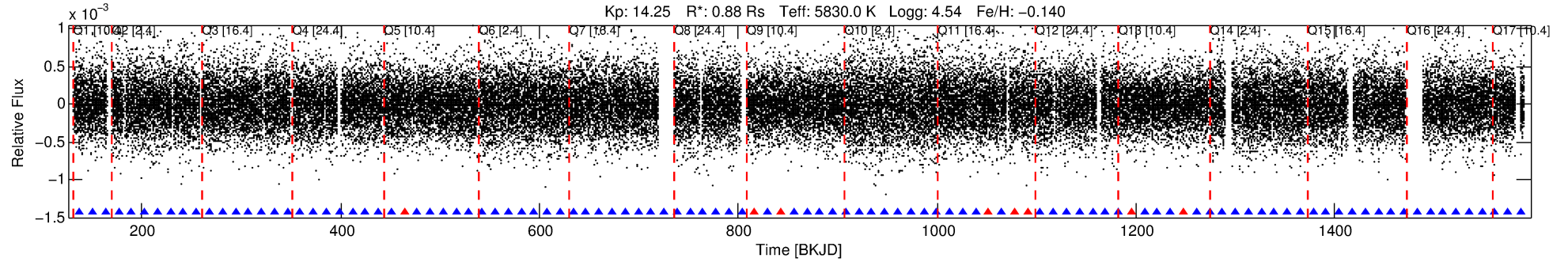
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 001718189-02

No Significant Match Found

DV One-Page Summary

KIC: 1718189 Candidate: 2 of 3 Period: 13.061 d
KOI: K00993.02 Name: Kepler-262b Corr: 0.865



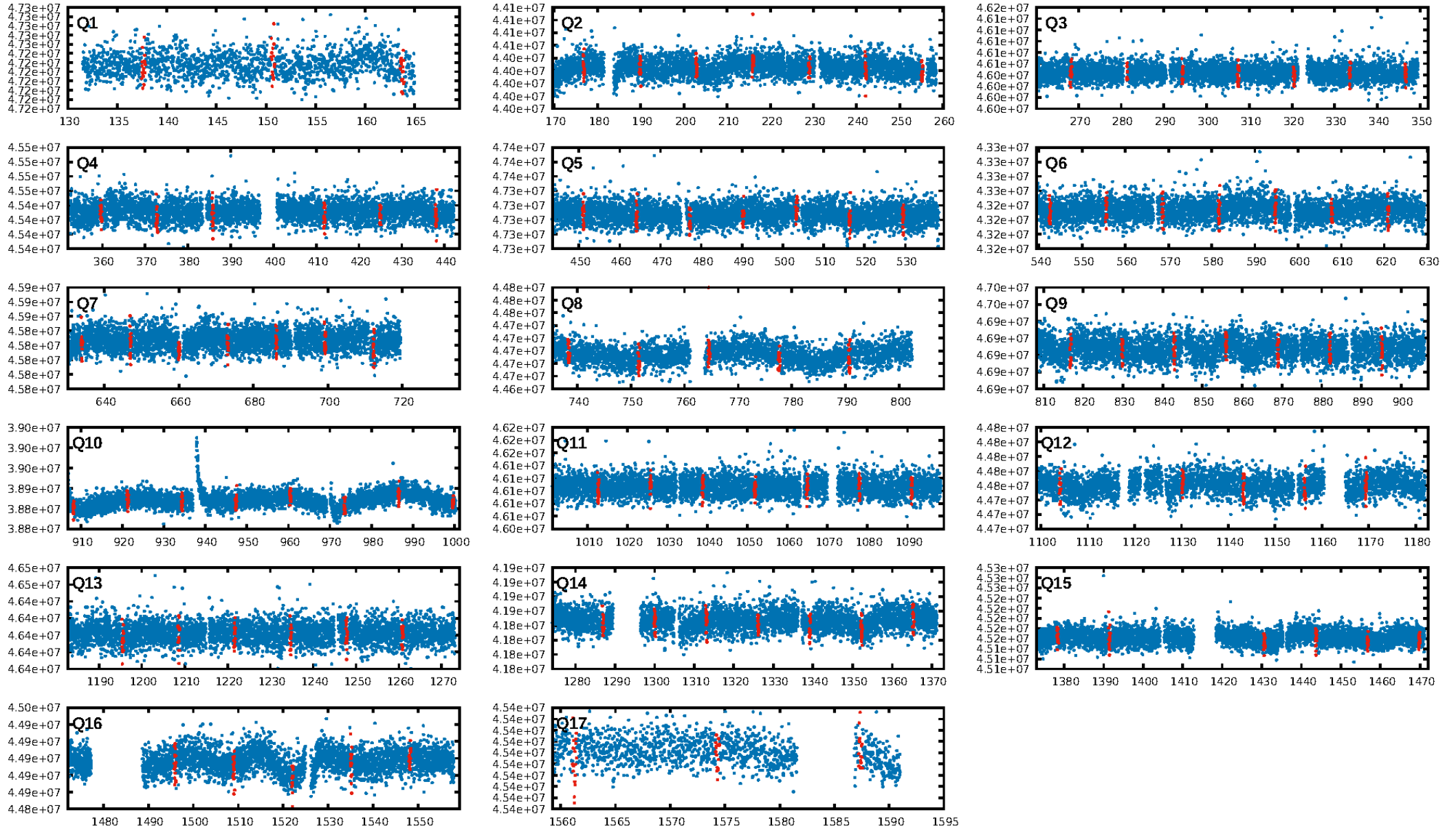
DV Fit Results:

Period = 13.06083 [0.00009] d
Epoch = 137.6285 [0.0055] BKJD
Rp/R* = 0.0293 [0.0559]
a/R* = 5.89 [2.98]
b = 1.00 [0.09]
Seff = 68.75 [24.43]
T_{eq} = 734 [65] K
Rp = 2.80 [5.39] R_e
a = 0.1075 [0.0246] AU
Ag = 35.26 [135.49] [0.25σ]
T_{eff} = 2766 [2648] K [0.77σ]

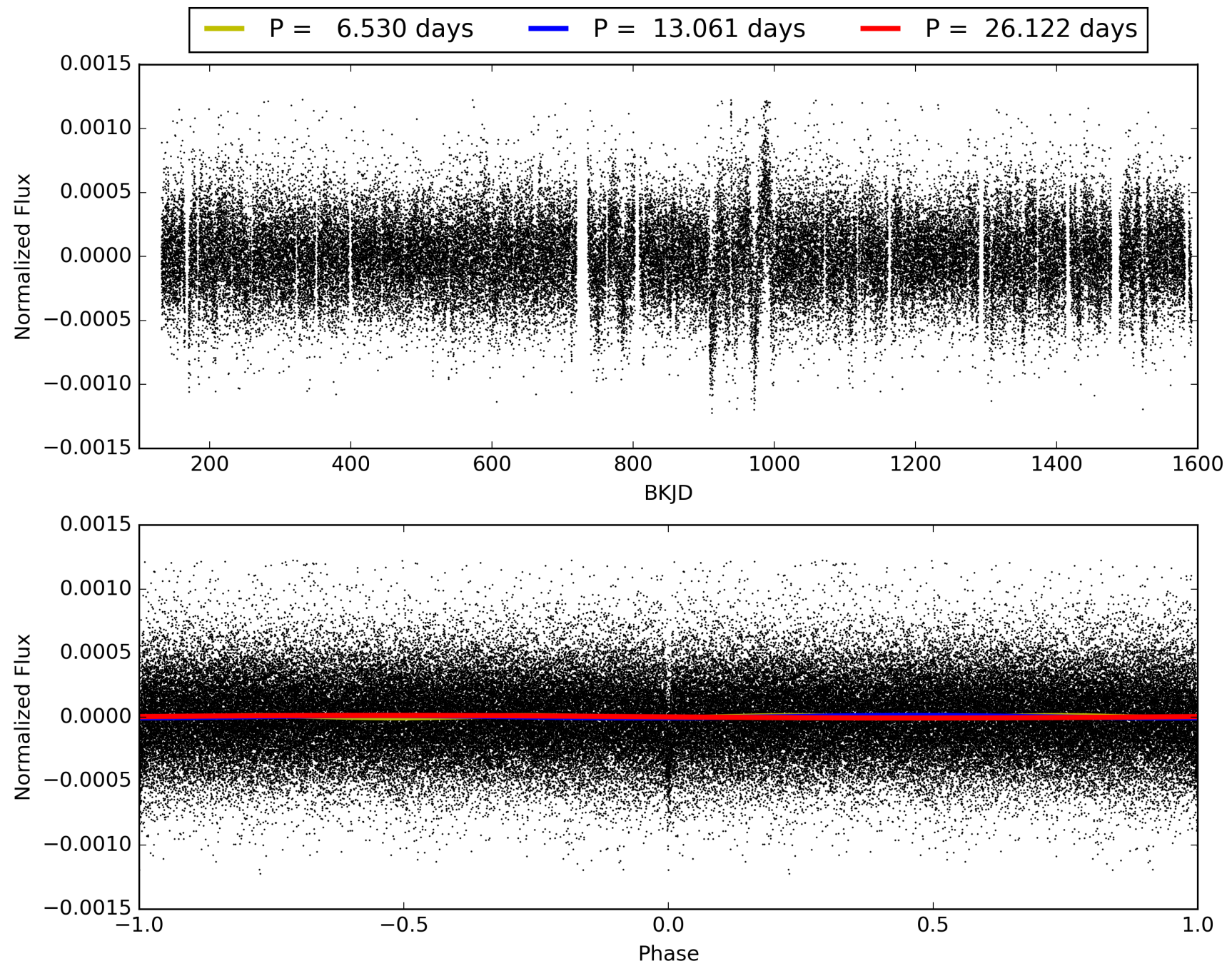
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [37.61σ]
ModelChiSquare2-sig: 100.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.71e-60
RollingBand-fgt: 0.92 [87/95]
GhostDiagnostic-chr: 1.912
Centroid-sig: 0.0%
Centroid-so: 0.998 arcsec [1.32σ]
OotOffset-rm: 0.159 arcsec [0.30σ]
KicOffset-rm: 0.133 arcsec [0.25σ]
OotOffset-st: 3/4/4/2 [13]
KicOffset-st: 3/4/4/2 [13]
DiffImageQuality-fgm: 0.62 [8/13]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 001718189-02, PDC Light Curves

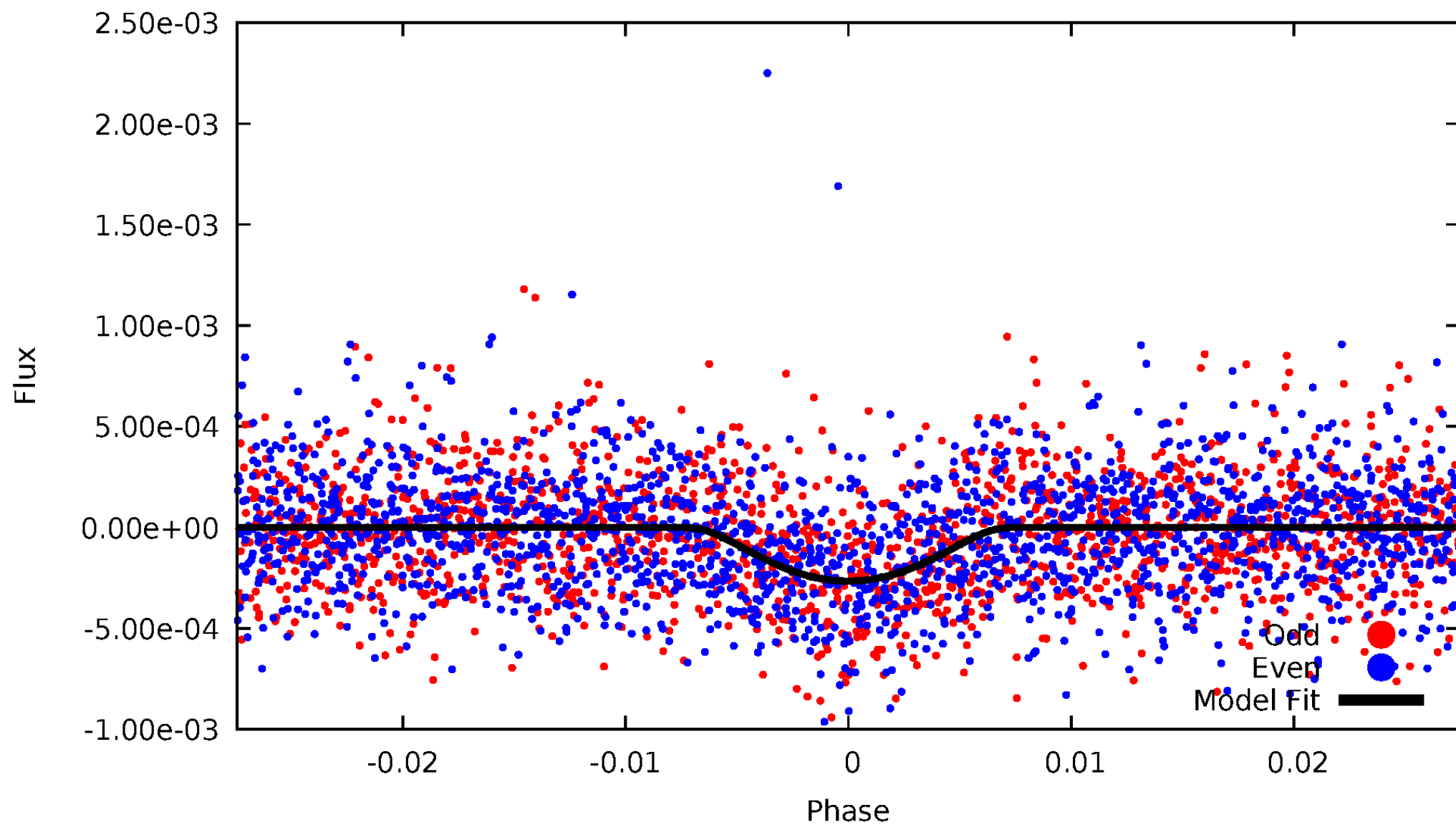


TCE 001718189-02



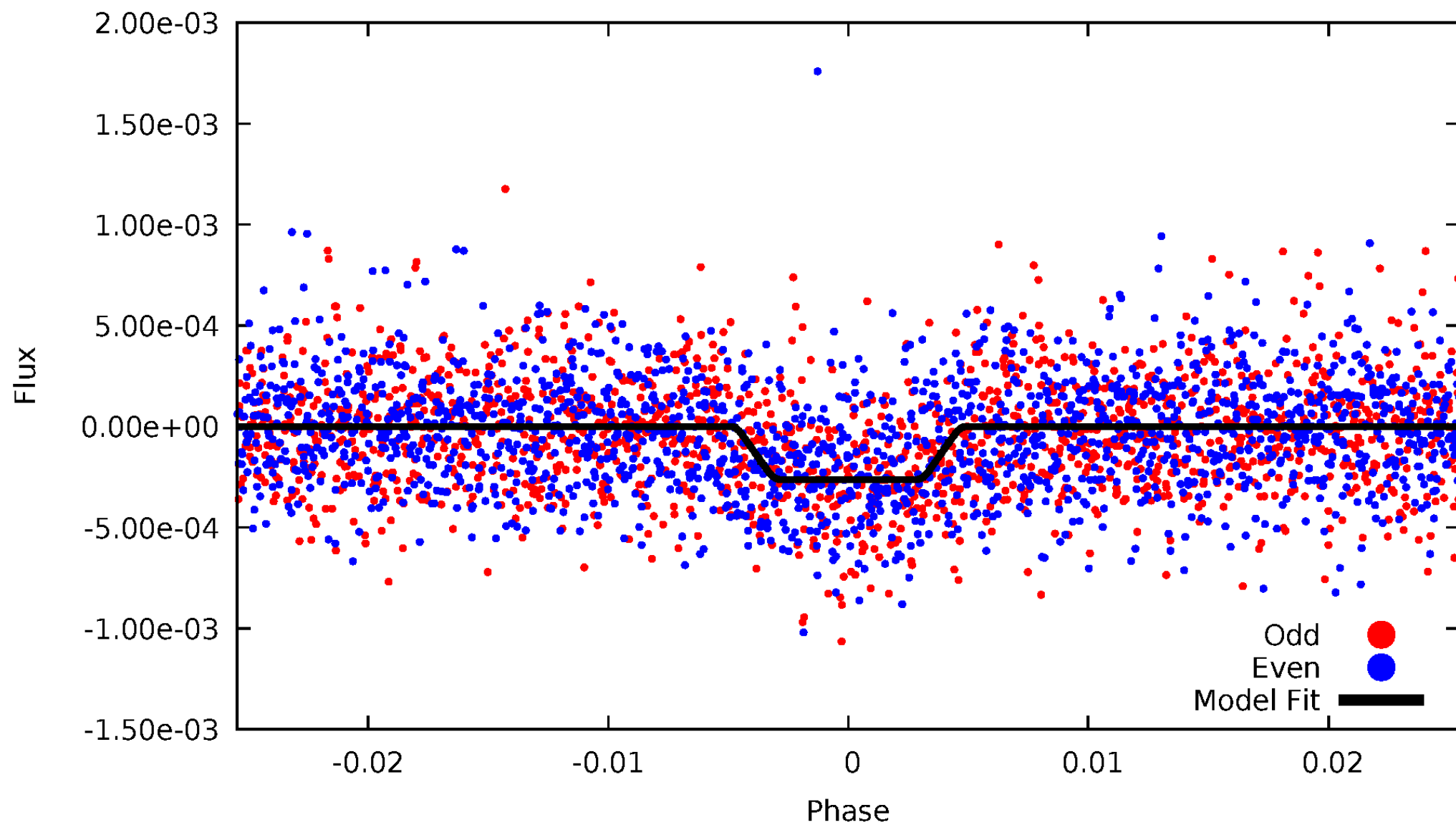
DV Odd/Even

TCE 001718189-02



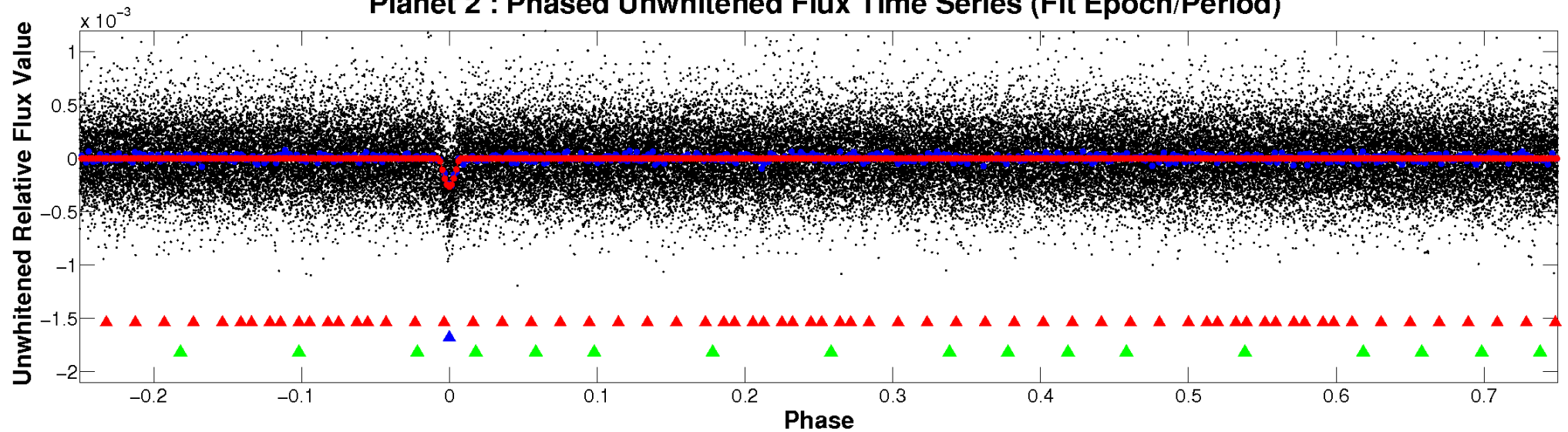
ALT Odd/Even

TCE 001718189-02

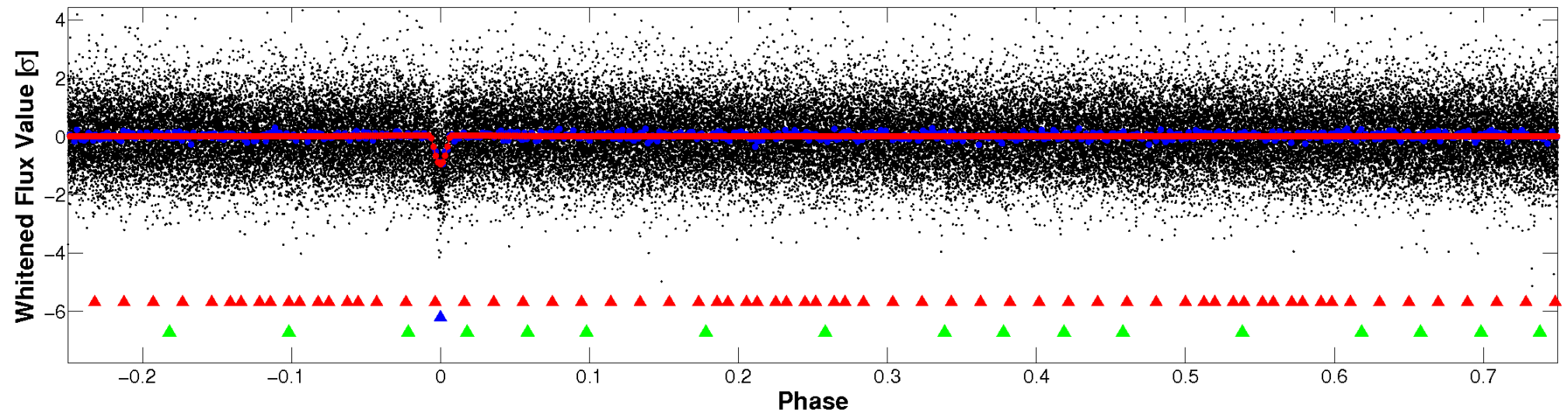


Non-Whitened Vs. Whitened Light Curve

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

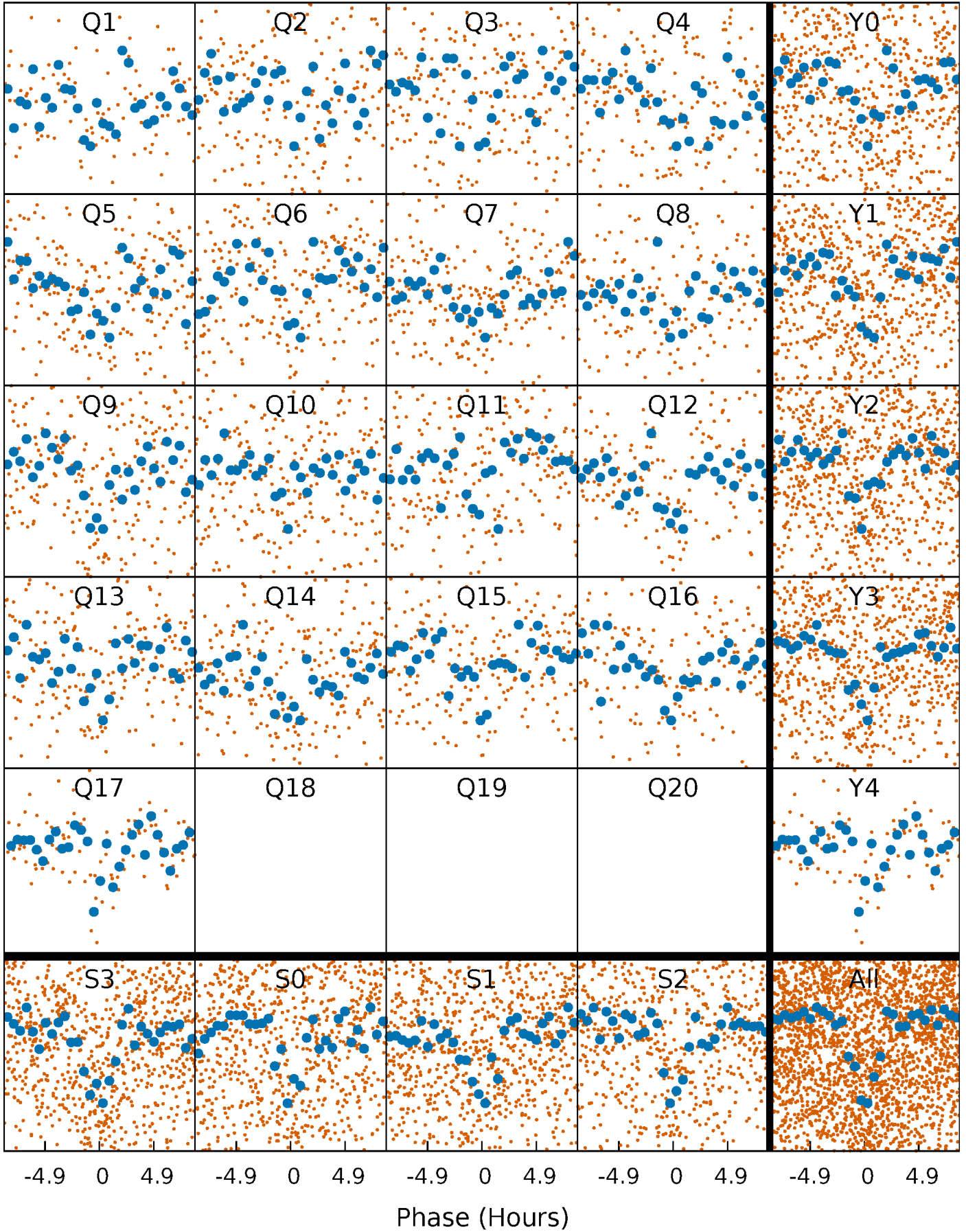


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



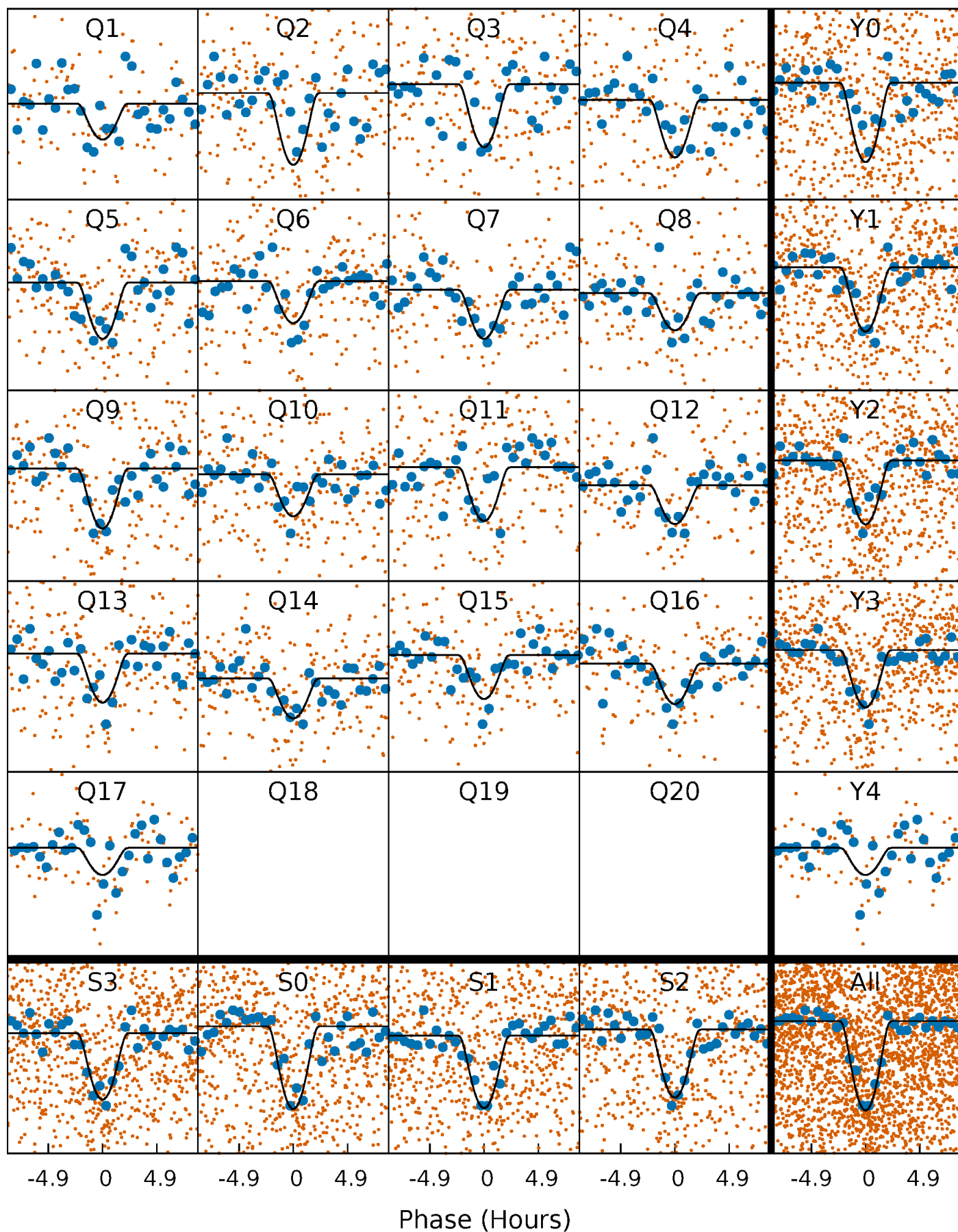
PDC Quarter-Phased Transit Curves

TCE 001718189-02 P= 13.060827 Days $T_0=137.628466$ (BKJD)



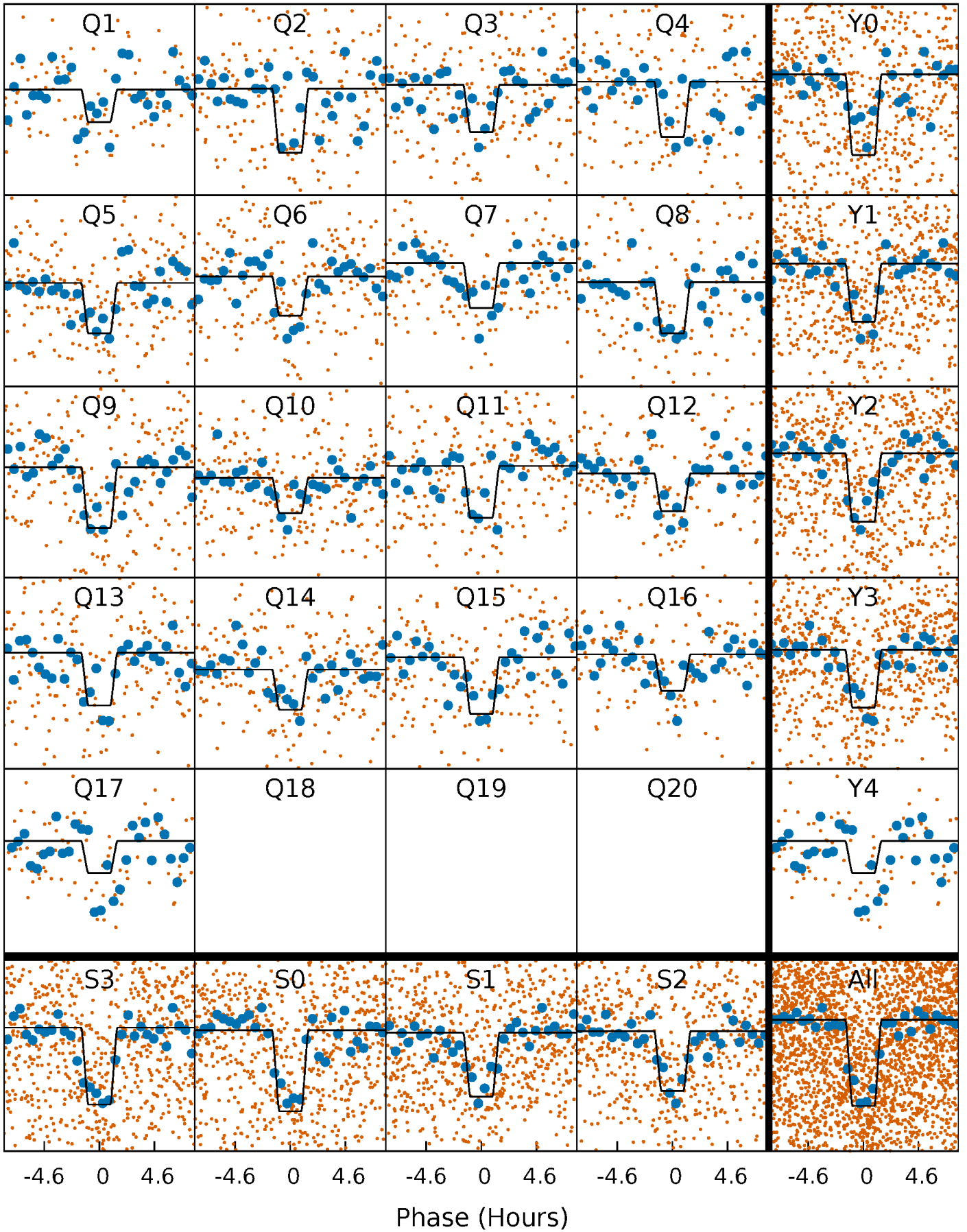
DV Quarter-Phased Transit Curves

TCE 001718189-02 P= 13.060827 Days $T_0=137.628466$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

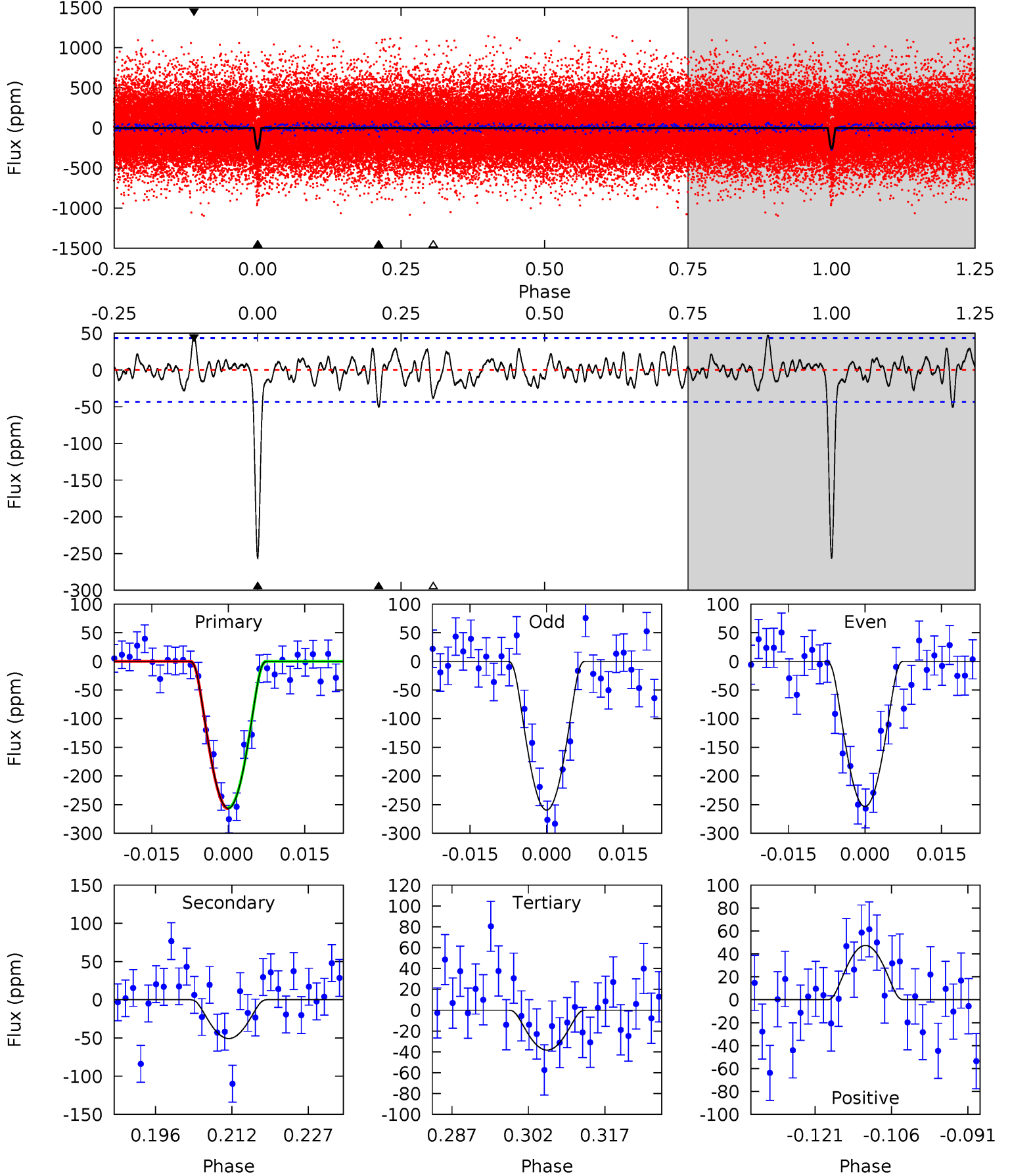
TCE 001718189-02 P= 13.060664 Days $T_0=137.640093$ (BKJD)



DV Model-Shift Uniqueness Test

001718189-02, P = 13.060827 Days, E = 124.567639 Days

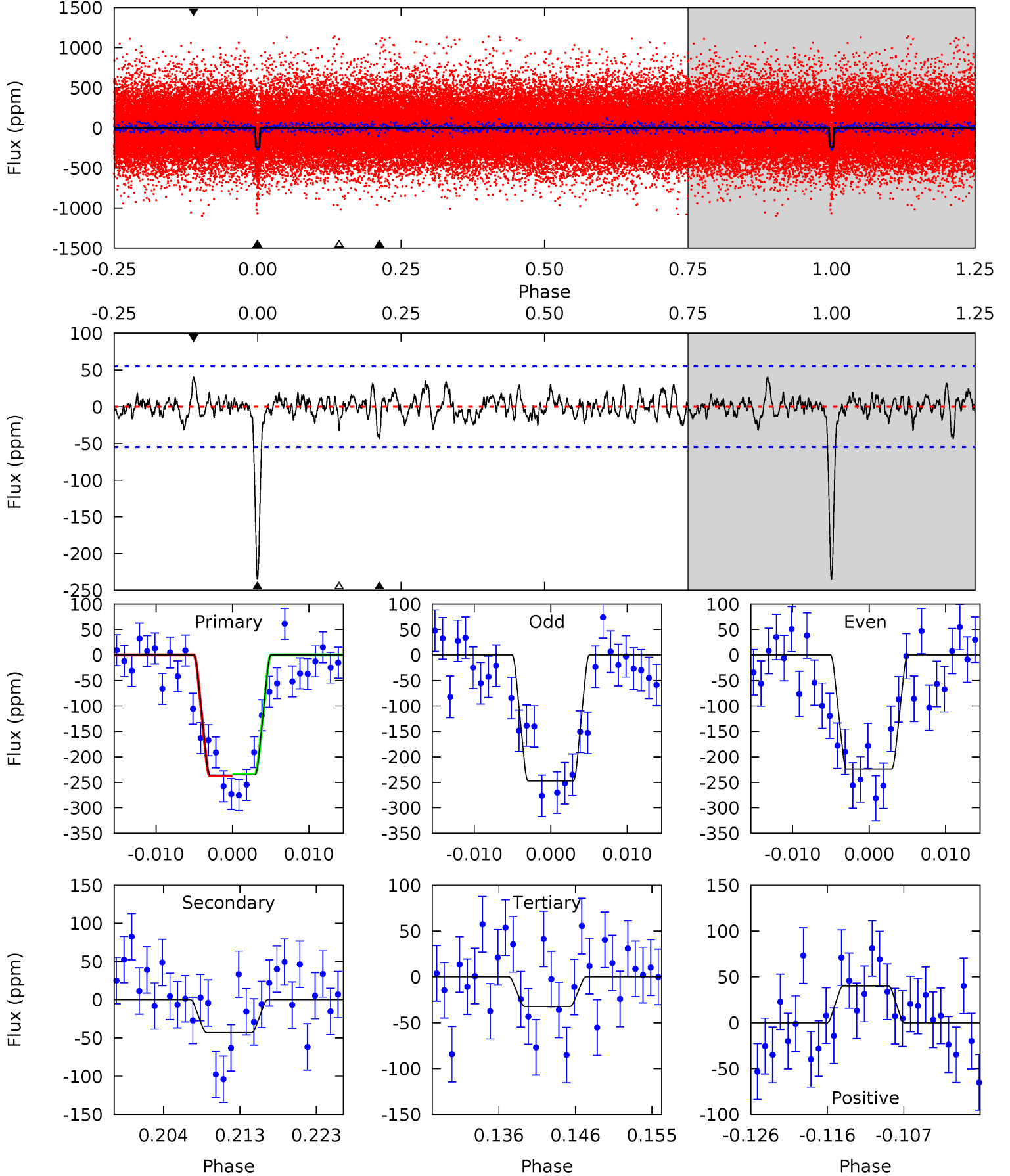
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.2	5.79	4.37	5.41	4.95	2.43	1.48	24.9	23.8	1.41	0.38	0.35	0.99	0.16	0.10



Alt Model-Shift Uniqueness Test

001718189-02, P = 13.060664 Days, E = 124.579429 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.5	3.92	2.96	3.67	5.03	2.59	1.11	18.6	17.9	0.96	0.25	1.08	0.99	0.15	0.15



Stellar Parameters For KIC 001718189

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5830^{+146}_{-161}	$4.540^{+0.044}_{-0.187}$	$-0.140^{+0.300}_{-0.300}$	$0.876^{+0.234}_{-0.078}$	$0.970^{+0.099}_{-0.122}$	$2.036^{+0.369}_{-0.992}$
	+3%/-3%	+1%/-4%	+214%/-214%	+27%/-9%	+10%/-13%	+18%/-49%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 001718189-02 / KOI 0993.02

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-51 ± 9	$5.37^{+4.47}_{-3.70}$	1045^{+68}_{-42}	2822^{+1286}_{-427}	11^{+104}_{-8}
Alt.	-43 ± 11	$4.47^{+4.60}_{-3.00}$	1045^{+65}_{-44}	2900^{+1238}_{-493}	13^{+108}_{-10}

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

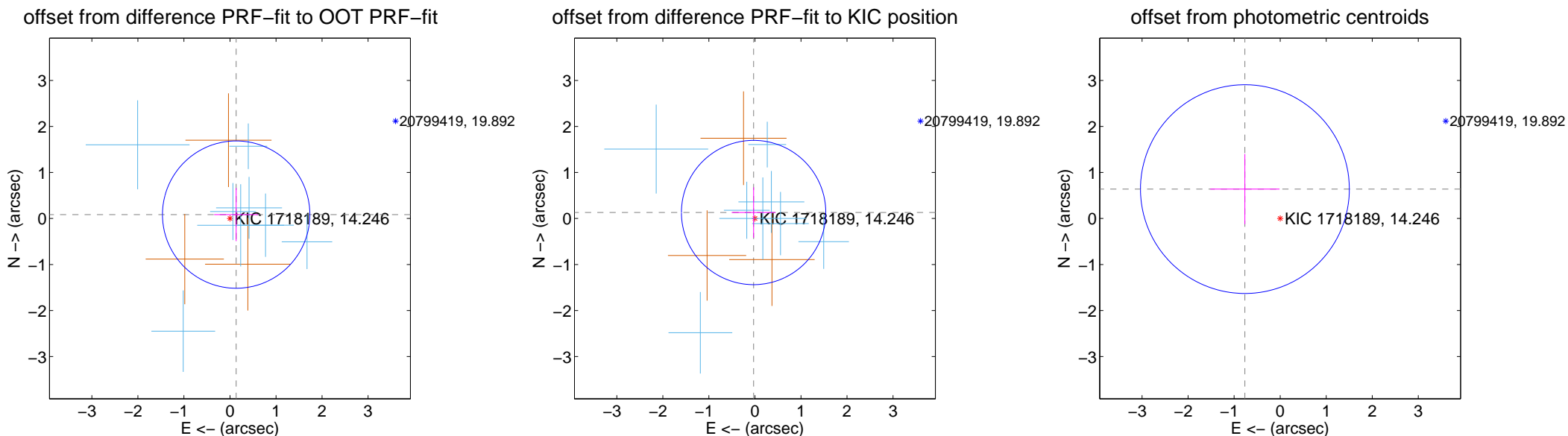
DV Centroid Data

Supplemental centroid analysis for 001718189-02. Kepler magnitude: 14.25. Transit SNR 18.40

There are 8 quarters with good PRF difference image offsets

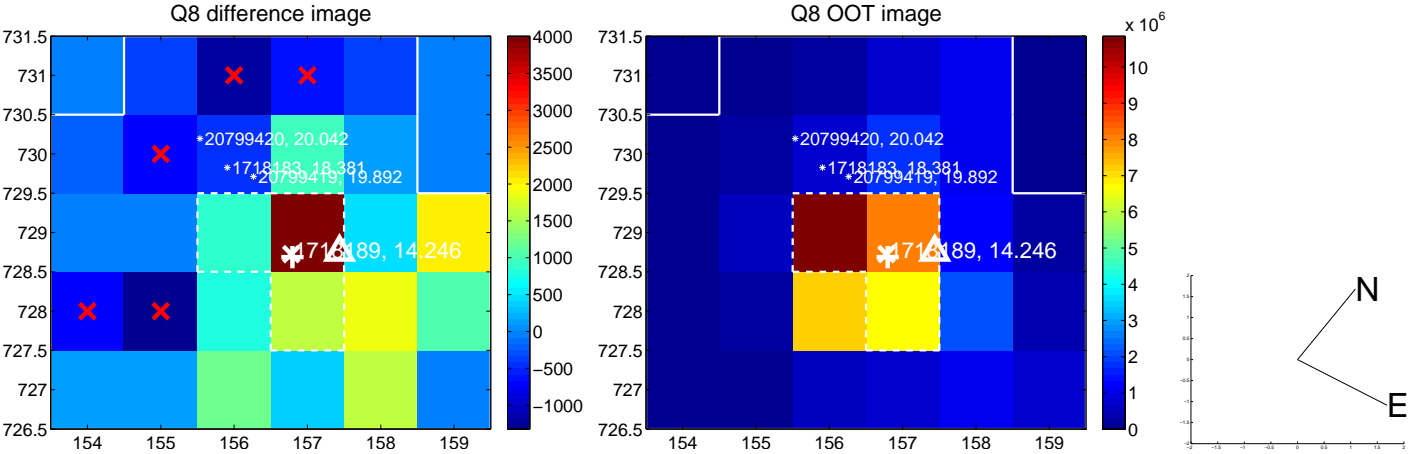
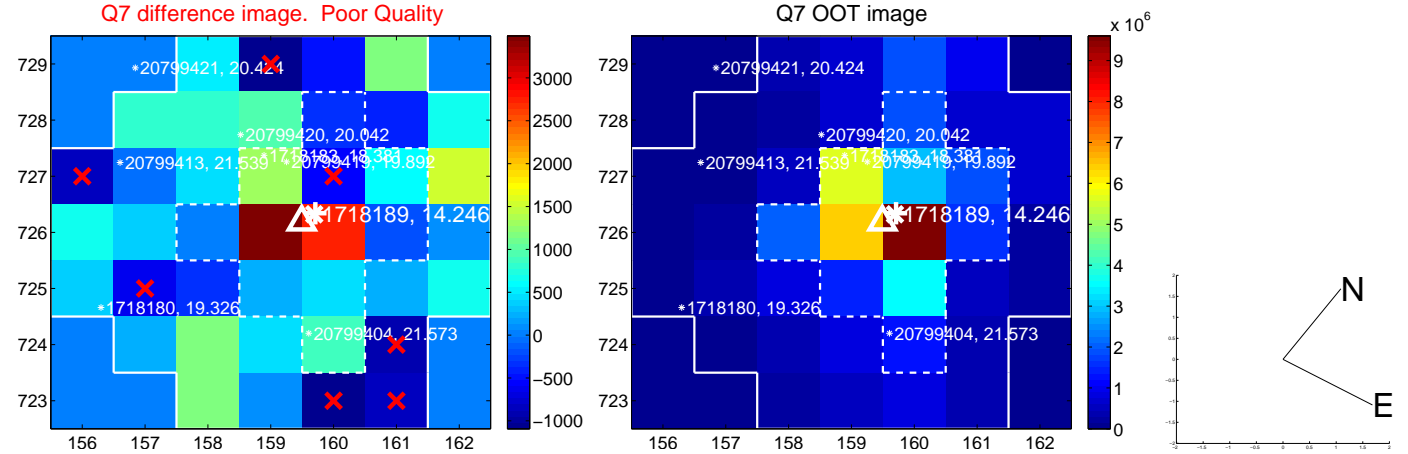
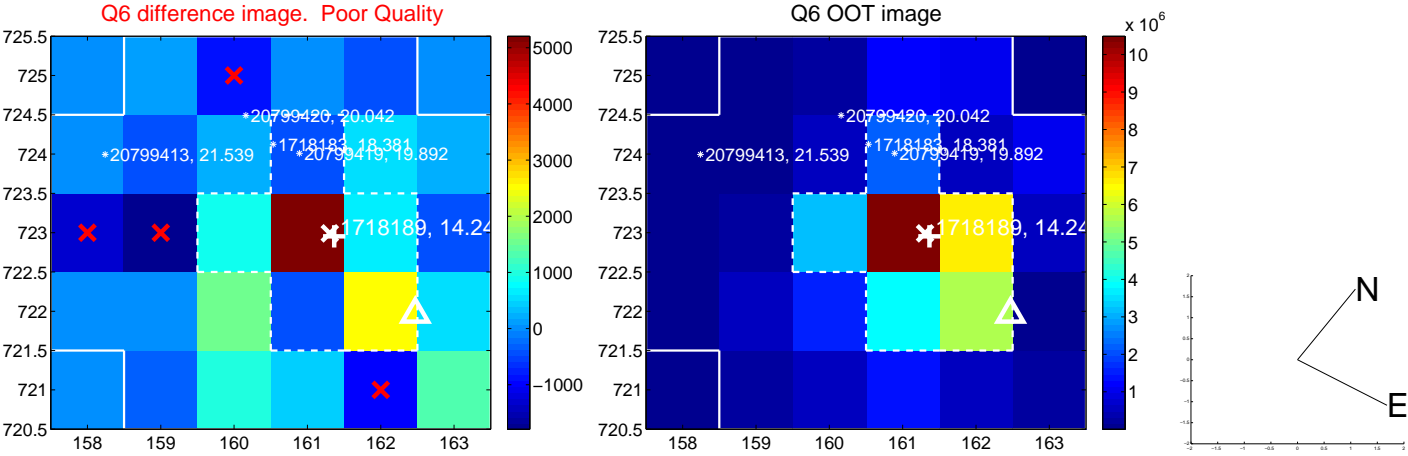
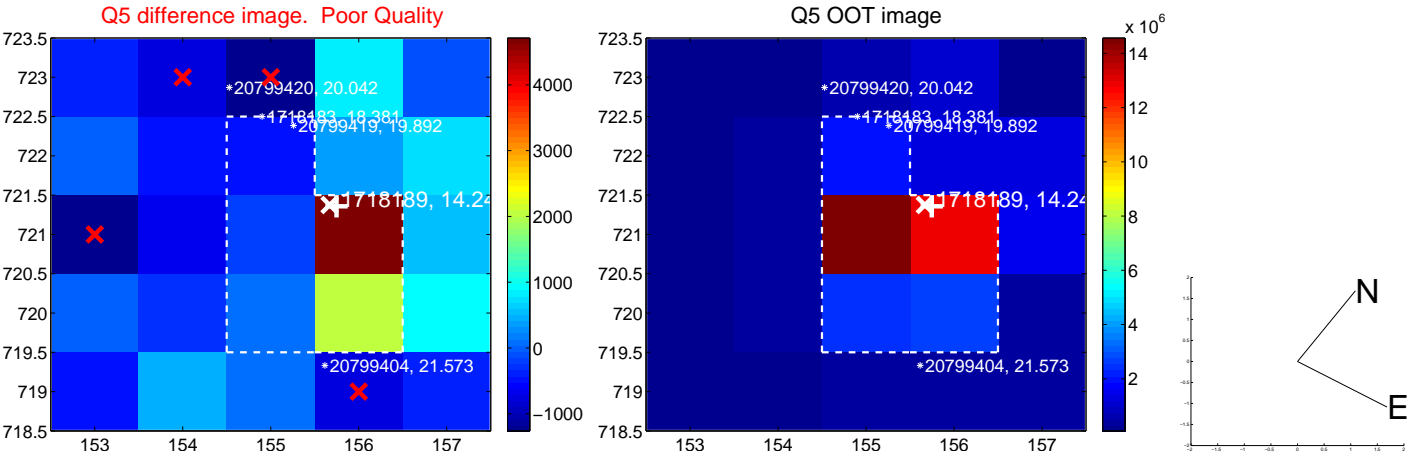
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.159 ± 0.534	0.30	-0.134 ± 0.478	0.085 ± 0.577
PRF-fit source offset from KIC position	0.133 ± 0.523	0.25	0.029 ± 0.477	0.130 ± 0.549
photometric centroid source offset	1.00 ± 0.76	1.32	0.77 ± 0.75	0.64 ± 0.76

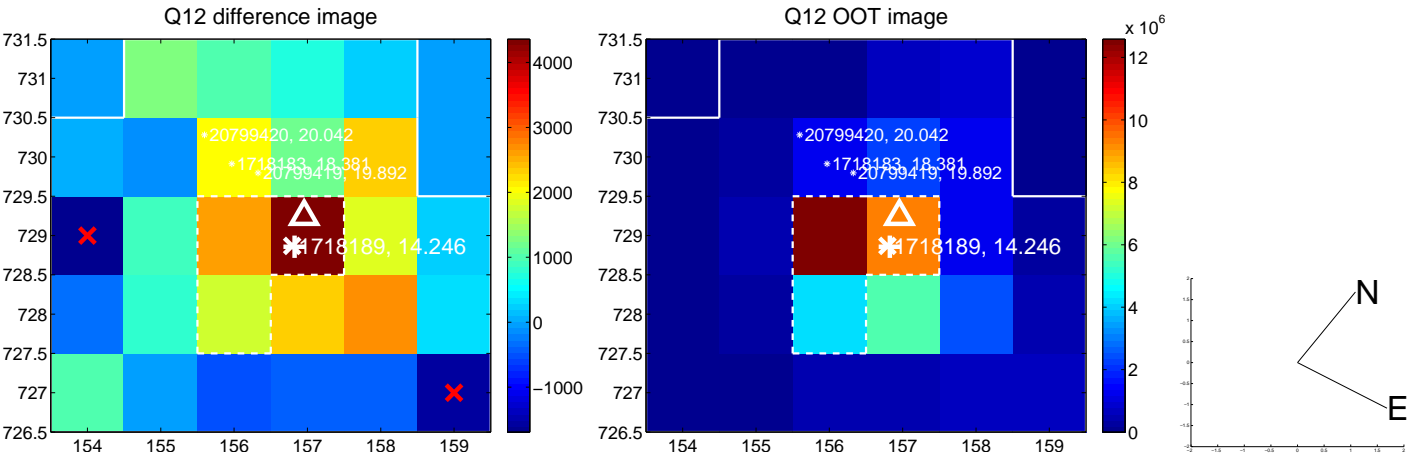
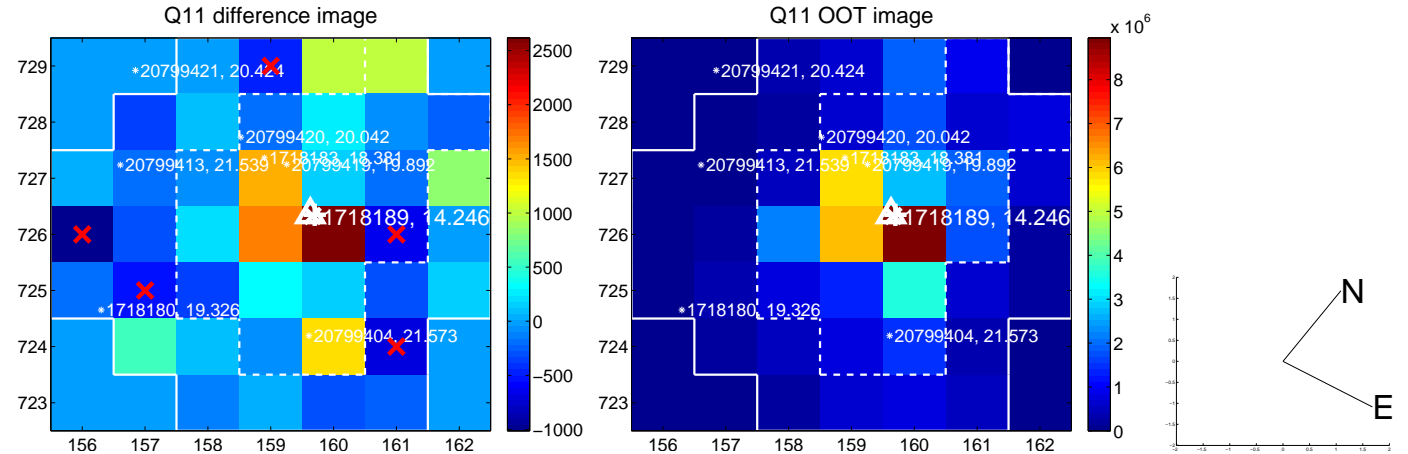
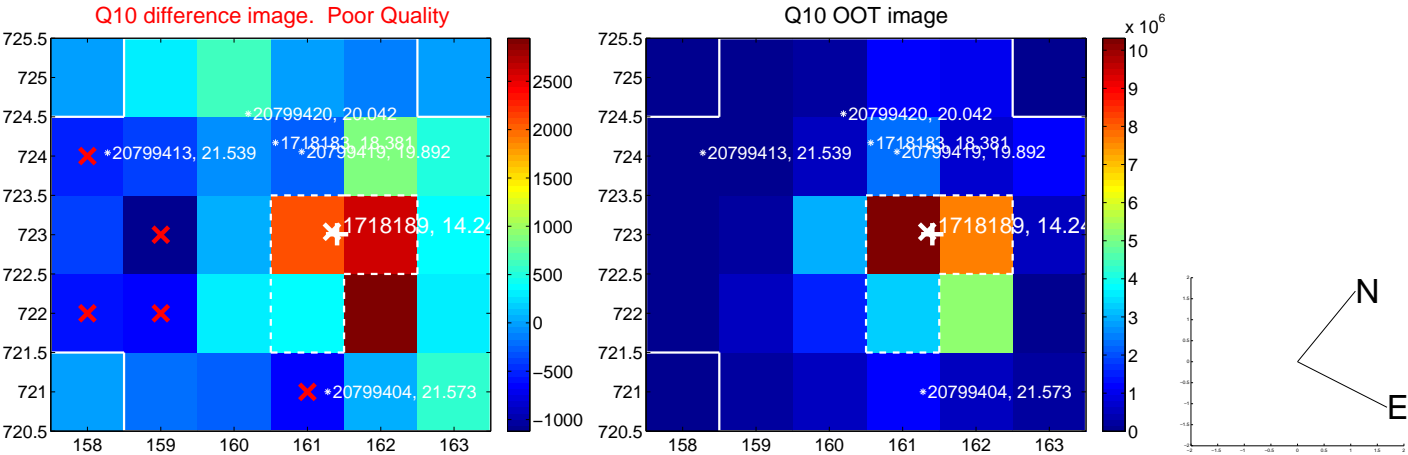
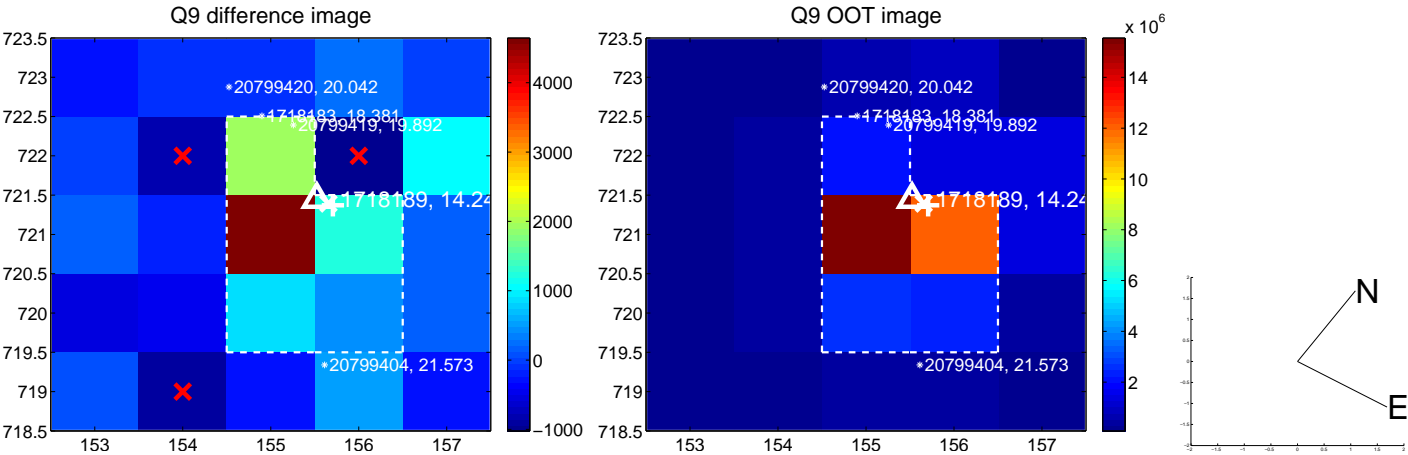


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

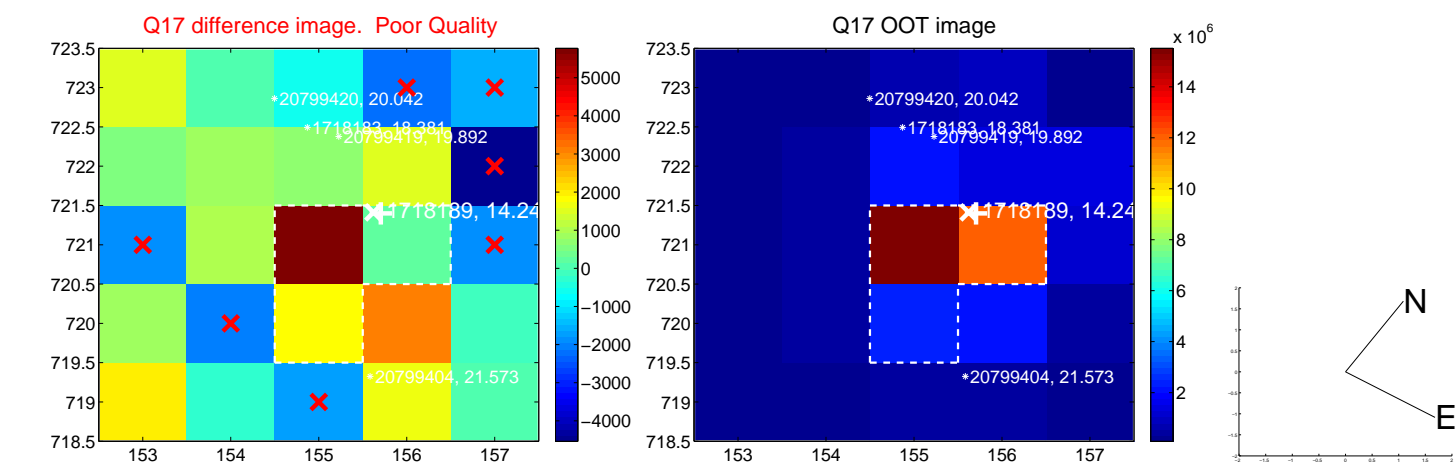
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



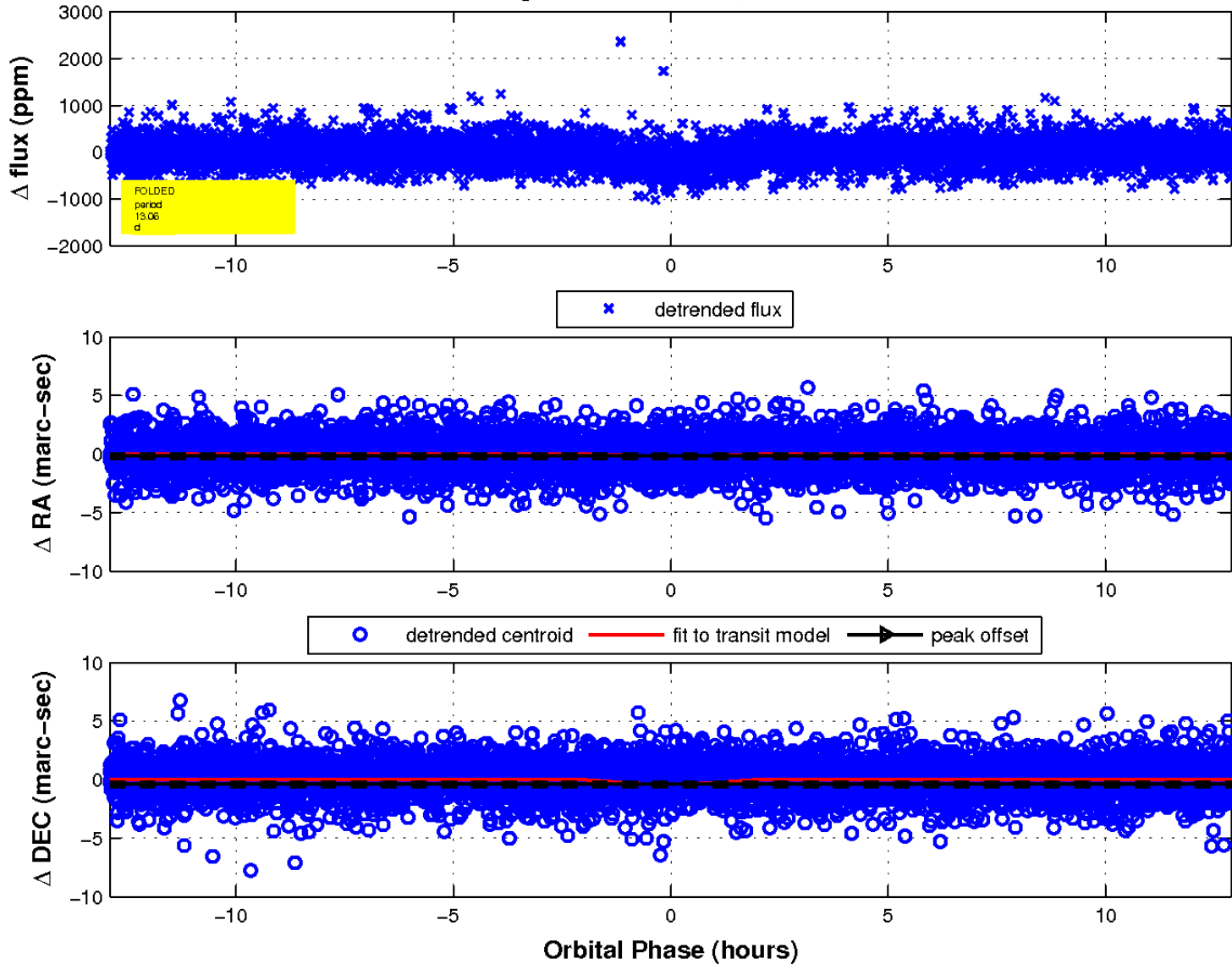
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

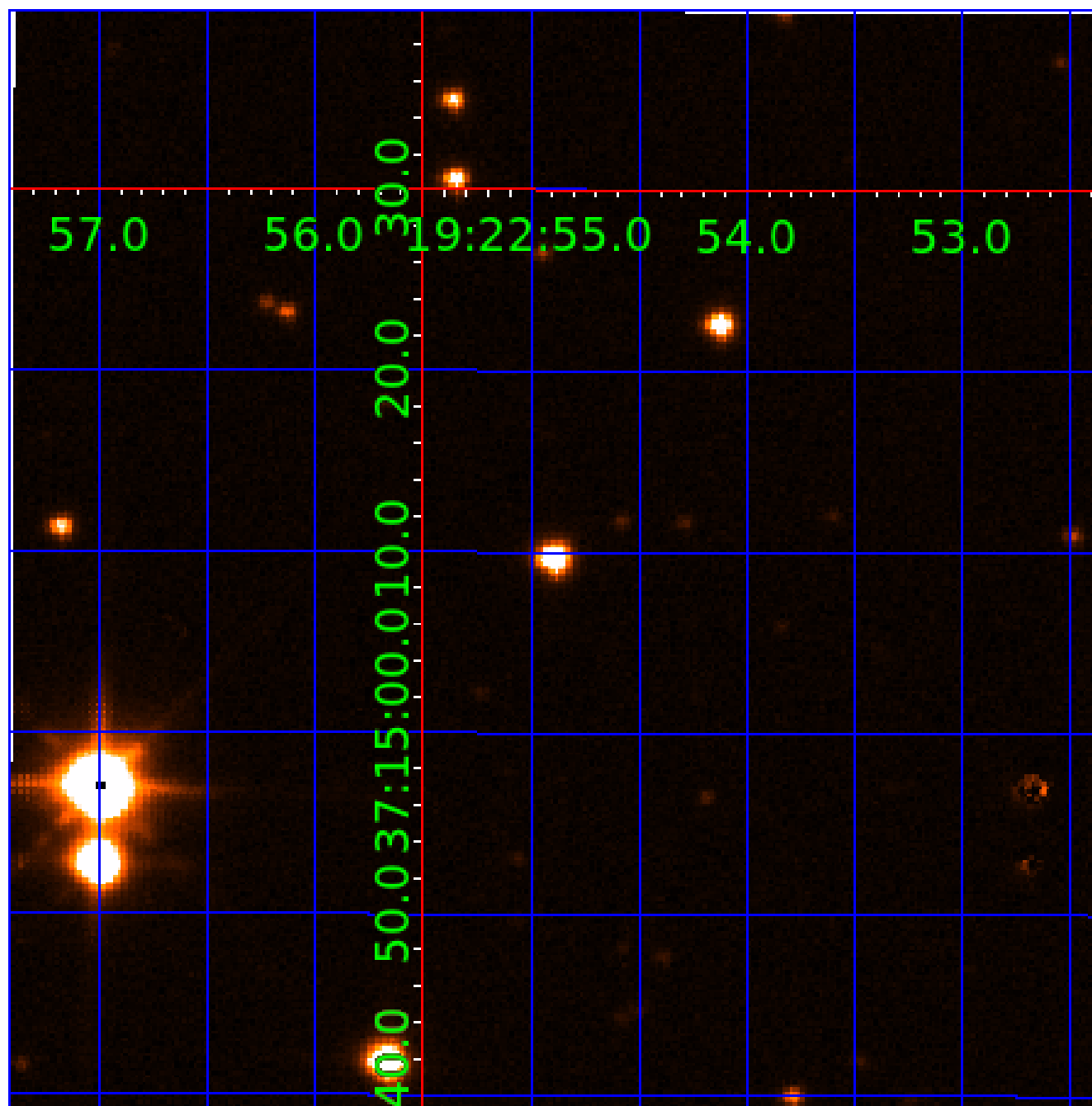


fluxWeightedCentroids, Planet 2 of 3



UKIRT Image

Declination



KIC 001718189

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})
001718189-01	OBS	0993.01	21.853577	144.322286	354.0	3.601	19.6	21.6	0.88	5830	1.95	34.61
001718189-02	OBS	0993.02	13.060827	137.628466	266.3	4.302	16.7	18.4	0.88	5830	2.80	68.75
001718189-03	OBS	0993.03	86.723349	195.338063	231.6	5.832	7.7	9.0	0.88	5830	1.46	5.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
001718189-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
001718189-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
001718189-03	OBS	FP	0.15	0	1	0	0	DEPTH_ODDEVEN_DV—CENT_FEW_DIFFS

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.

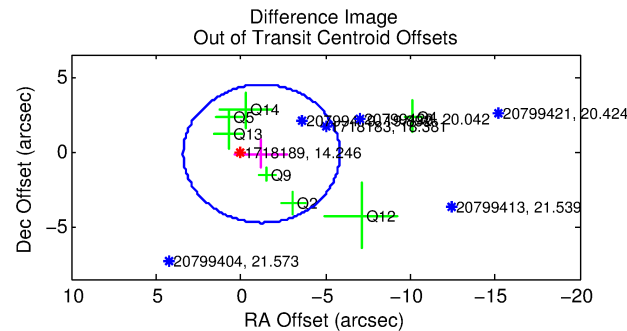
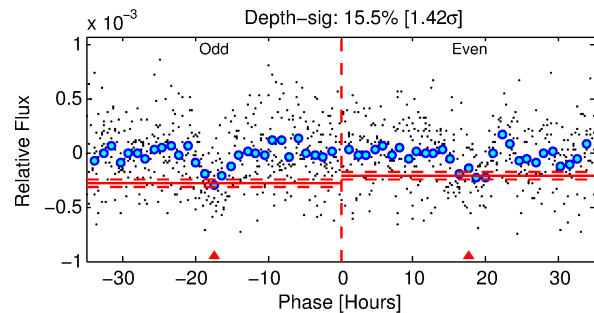
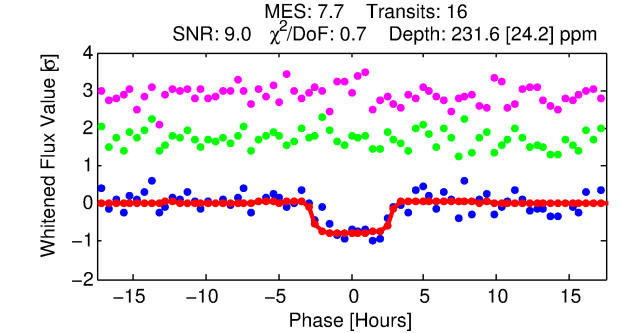
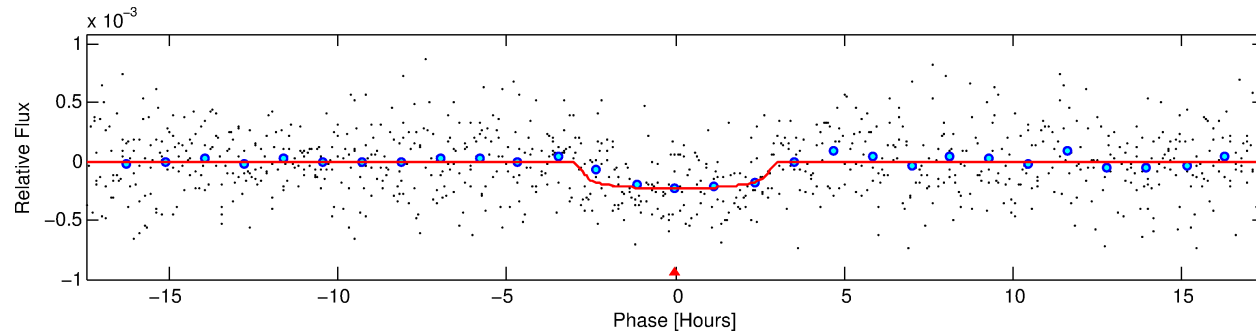
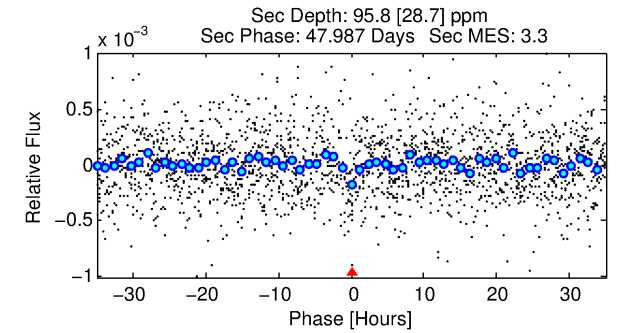
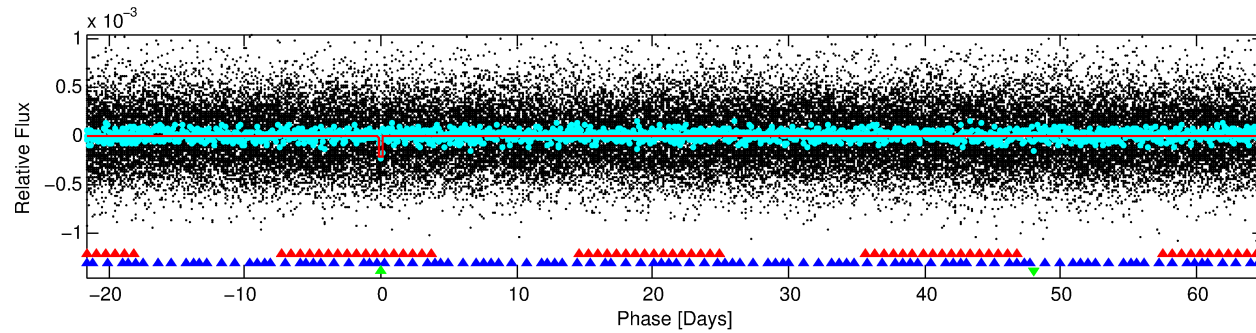
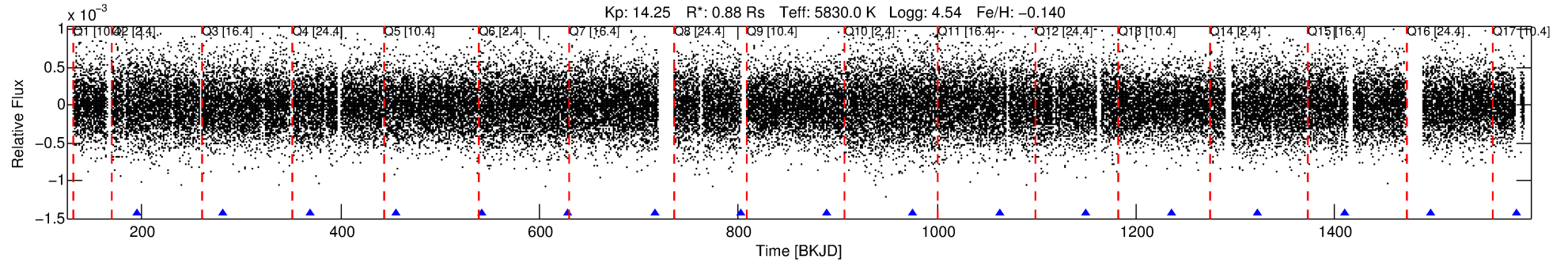
Ephemeris Match Information For 001718189-03

No Significant Match Found

DV One-Page Summary

KIC: 1718189 Candidate: 3 of 3 Period: 86.723 d

KOI: K00993.03 Corr: 0.907



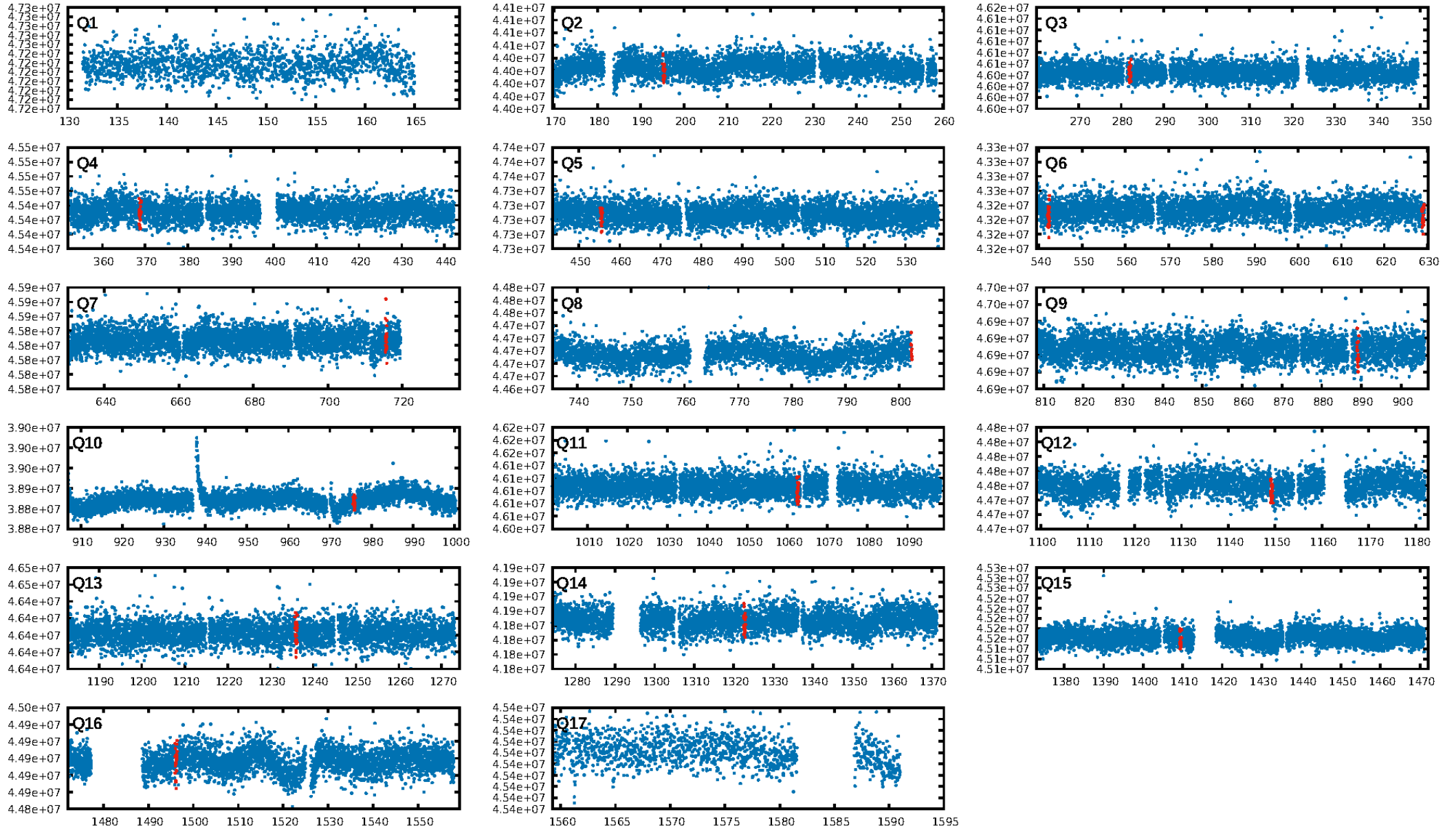
DV Fit Results:

Period = 86.72335 [0.00128] d
Epoch = 195.3381 [0.0111] BKJD
Rp/R* = 0.0153 [0.0120]
a/R* = 73.98 [268.95]
b = 0.78 [1.86]
Seff = 5.51 [1.96]
Teq = 391 [35] K
Rp = 1.46 [1.21] Re
a = 0.3797 [0.0868] AU
Ag = 3543.76 [5762.73] [0.61σ]
Teffp = 4660 [1858] K [2.30σ]

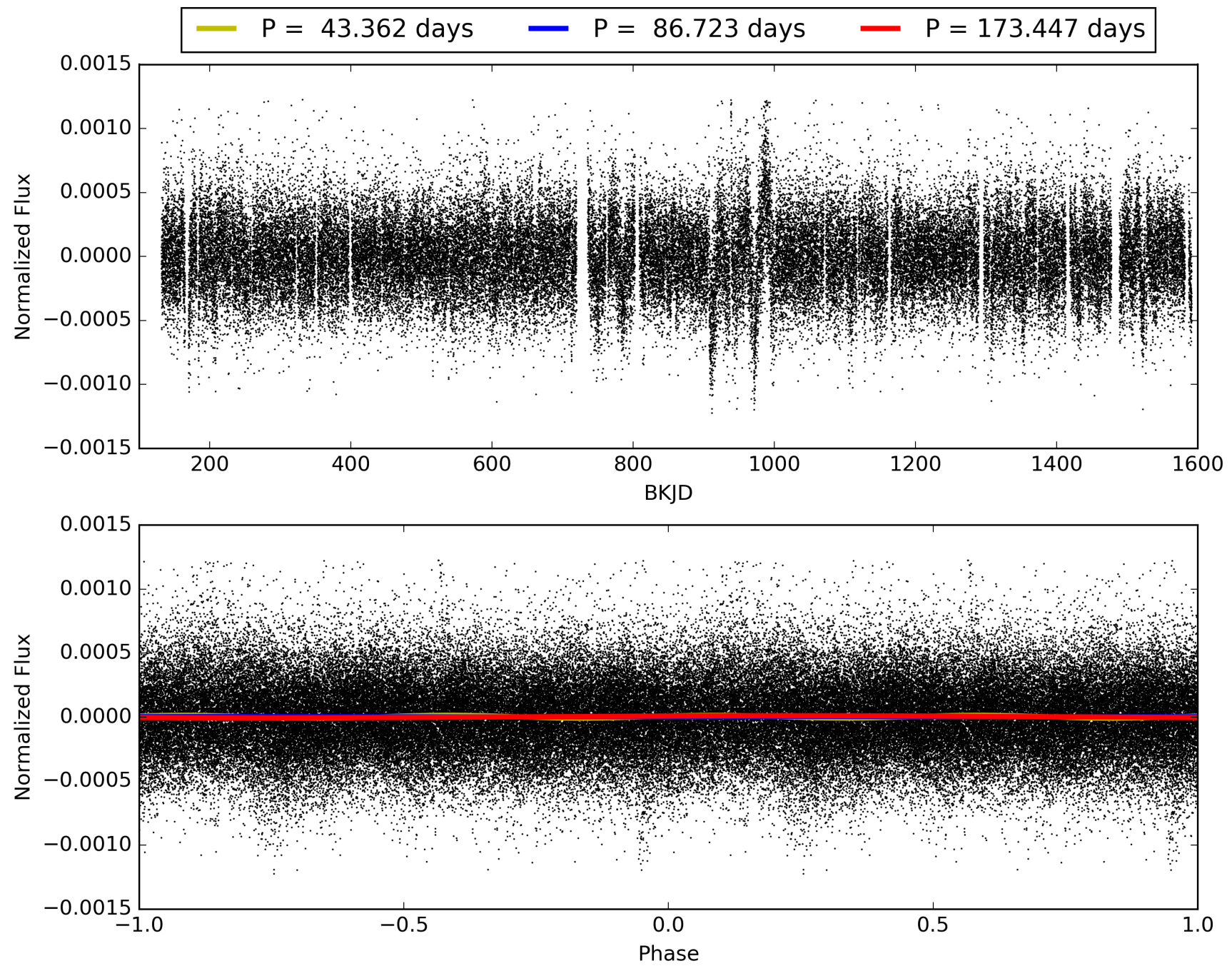
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [227.14σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 98.6%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.51e-14
RollingBand-fgt: 1.00 [16/16]
GhostDiagnostic-chr: 40.33
Centroid-sig: 51.0%
Centroid-so: 0.940 arcsec [0.60σ]
OotOffset-rm: 1.237 arcsec [0.80σ]
KicOffset-rm: 0.971 arcsec [0.78σ]
OotOffset-st: 2/0/2/3 [7]
KicOffset-st: 2/0/2/3 [7]
DiffImageQuality-fgm: 0.29 [2/7]
DiffImageOverlap-fno: 0.69 [9/13]

TCE 001718189-03, PDC Light Curves

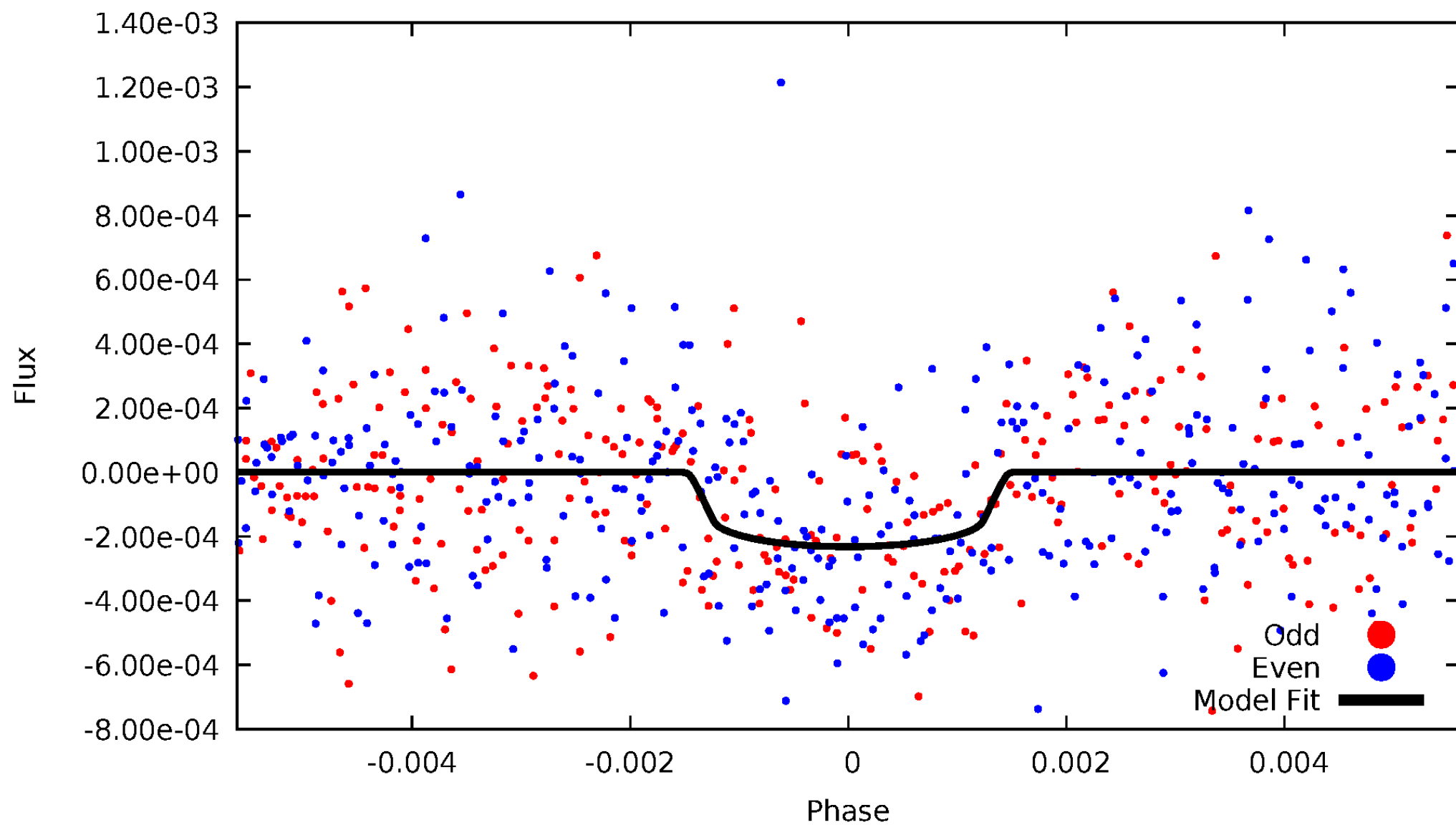


TCE 001718189-03



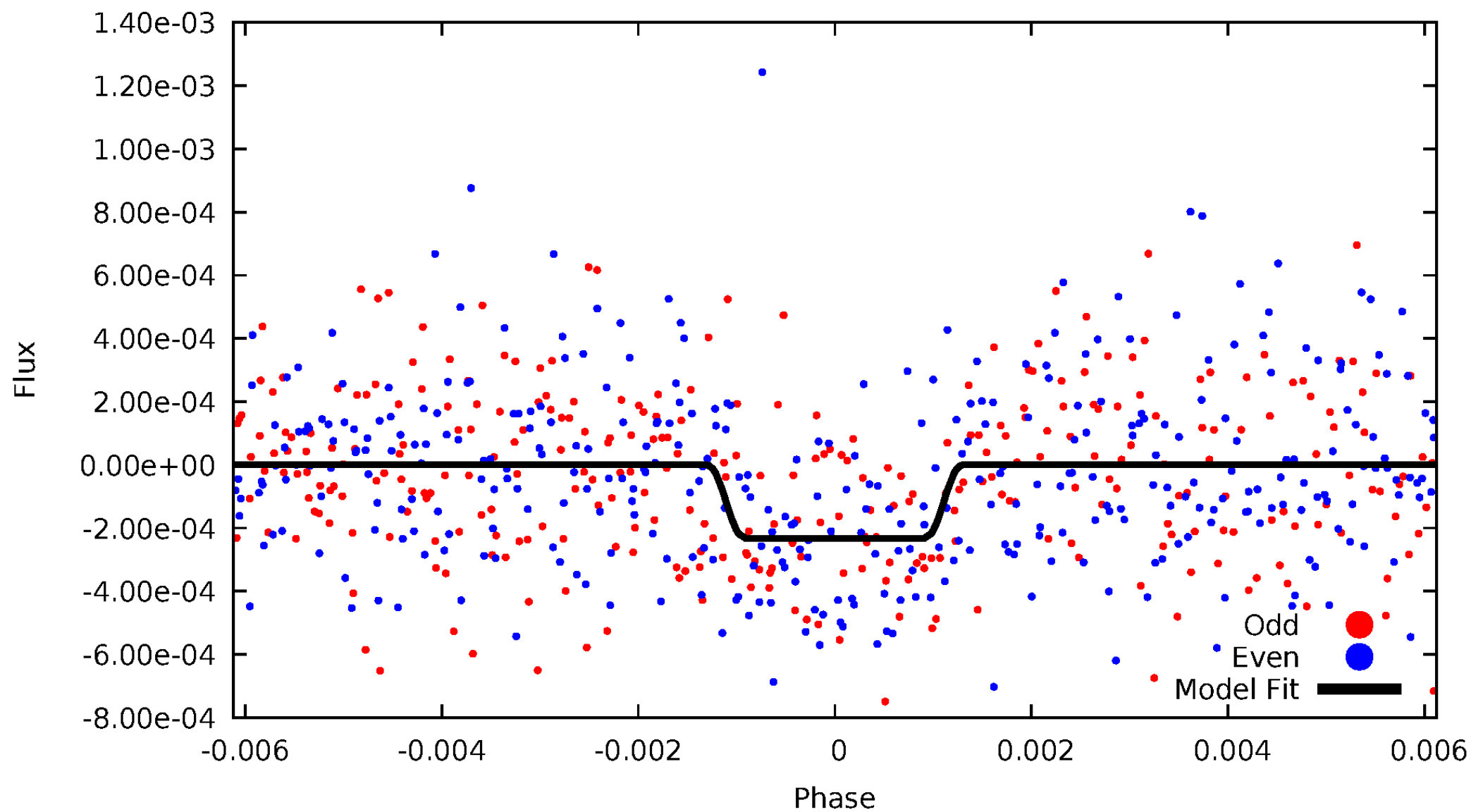
DV Odd/Even

TCE 001718189-03

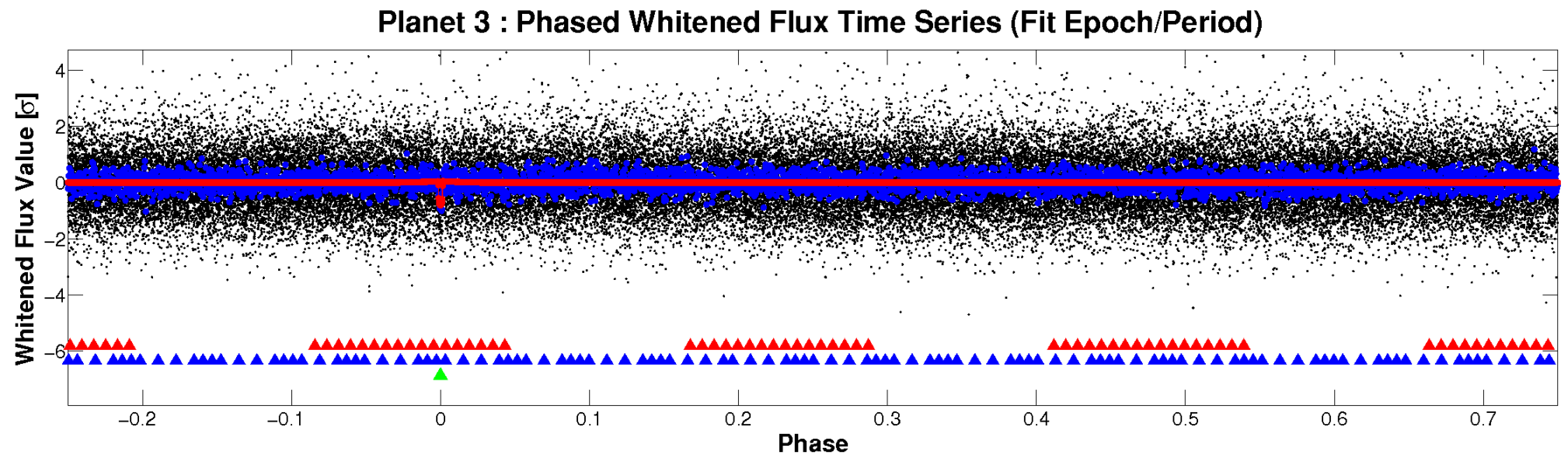
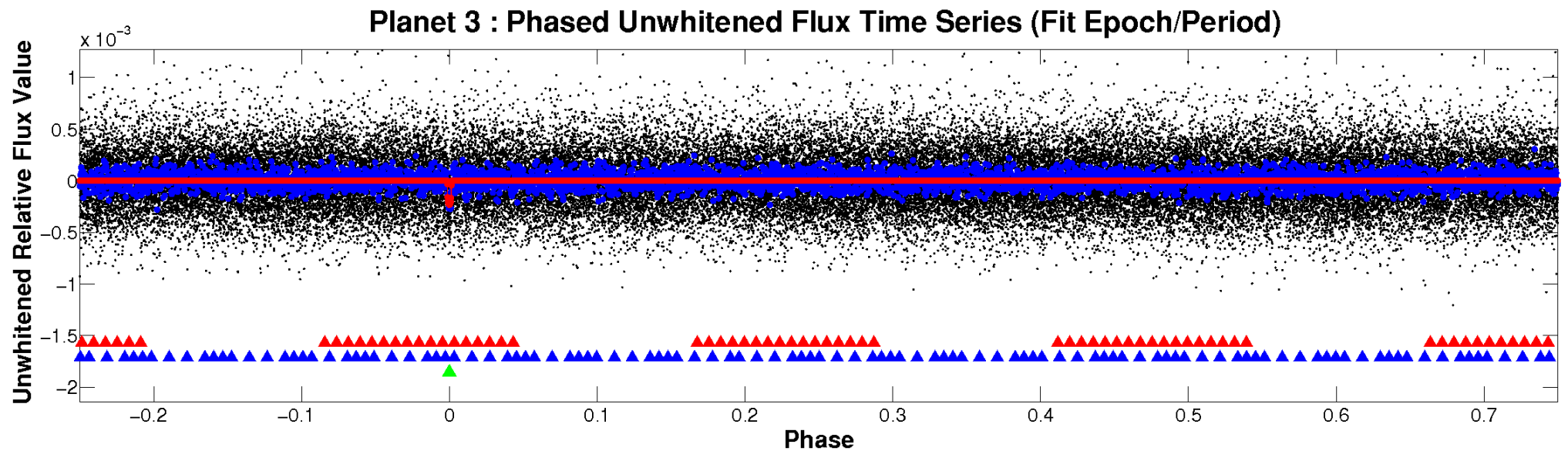


ALT Odd/Even

TCE 001718189-03

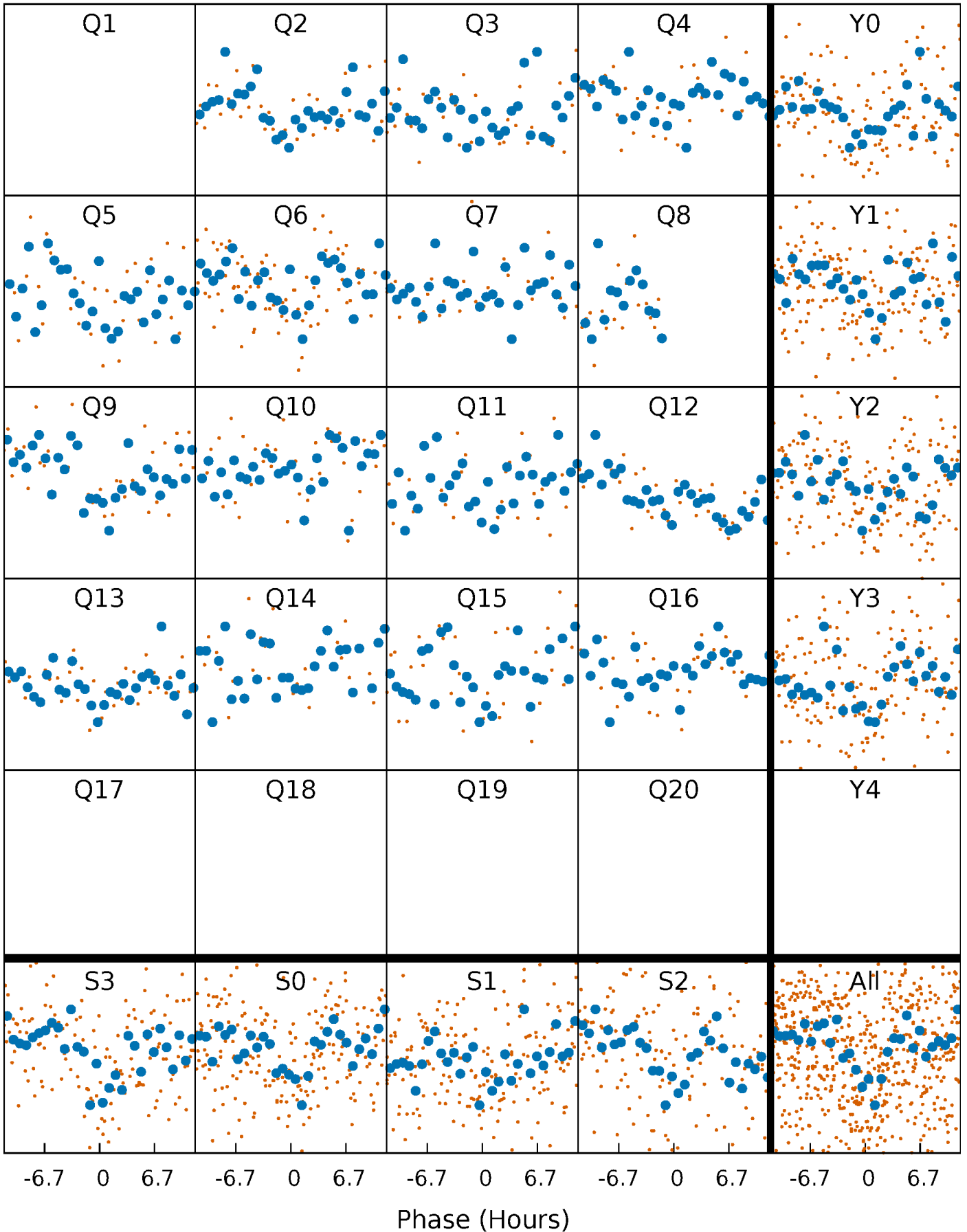


Non-Whitened Vs. Whitened Light Curve



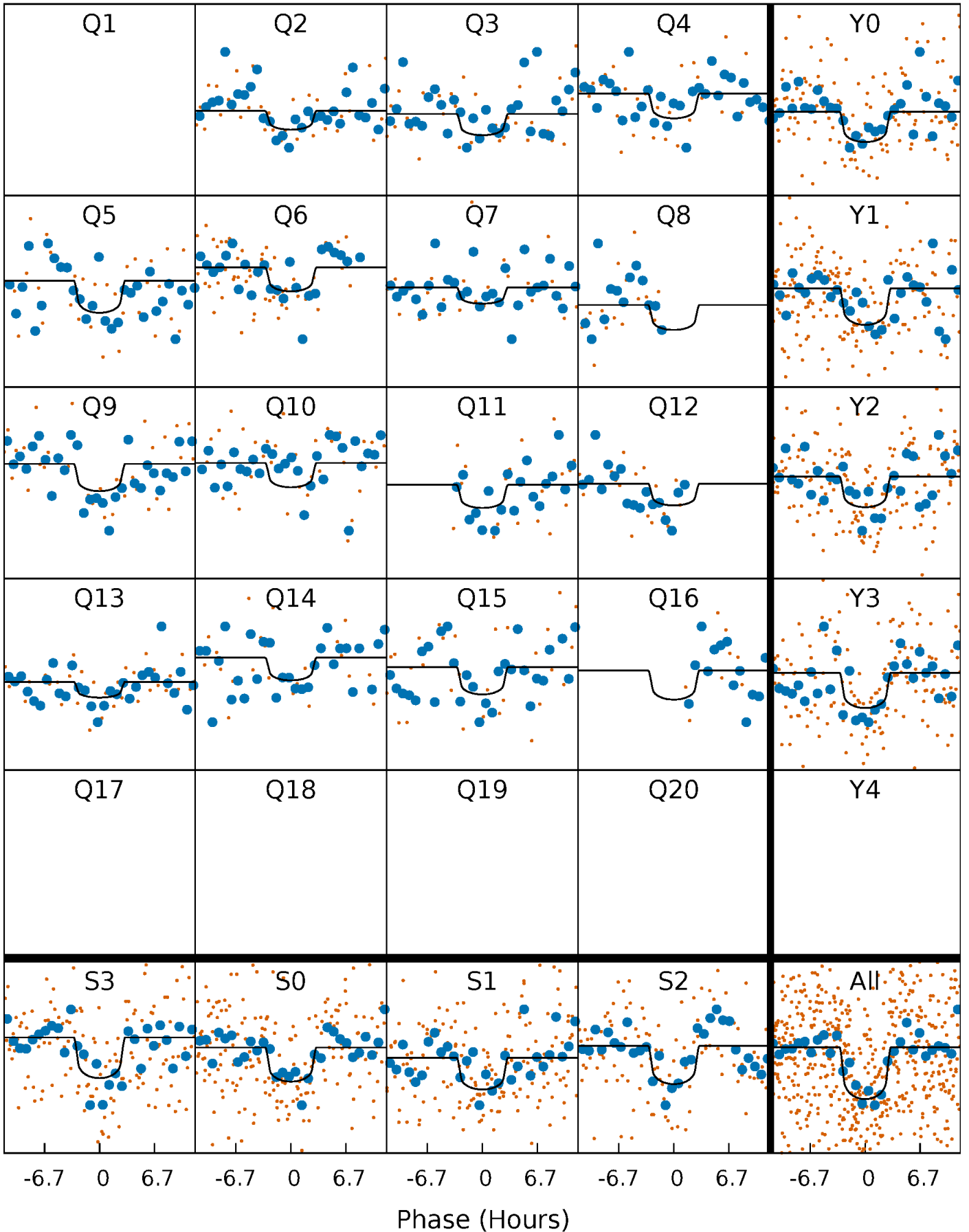
PDC Quarter-Phased Transit Curves

TCE 001718189-03 P= 86.723349 Days $T_0=195.338063$ (BKJD)



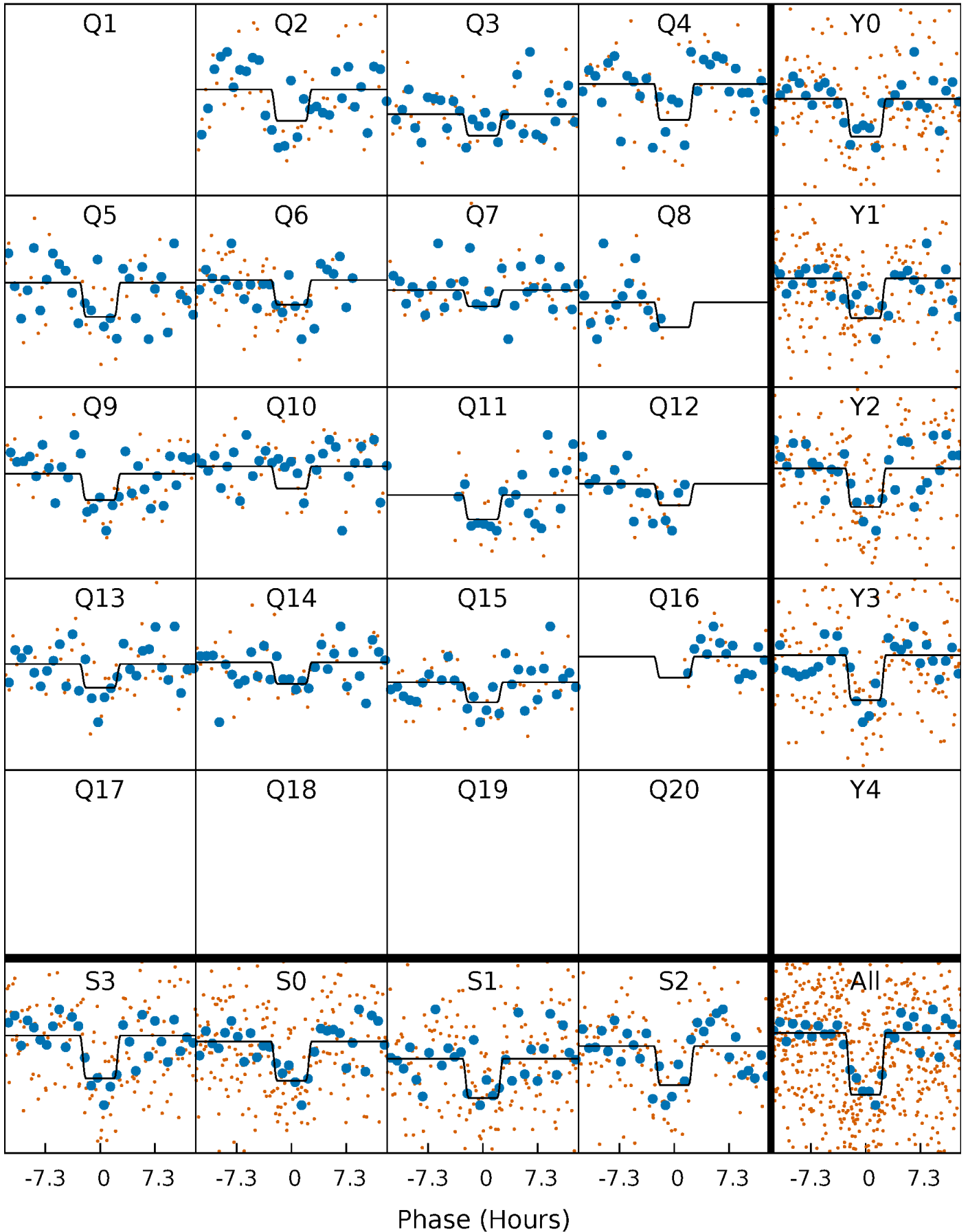
DV Quarter-Phased Transit Curves

TCE 001718189-03 P= 86.723349 Days $T_0=195.338063$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

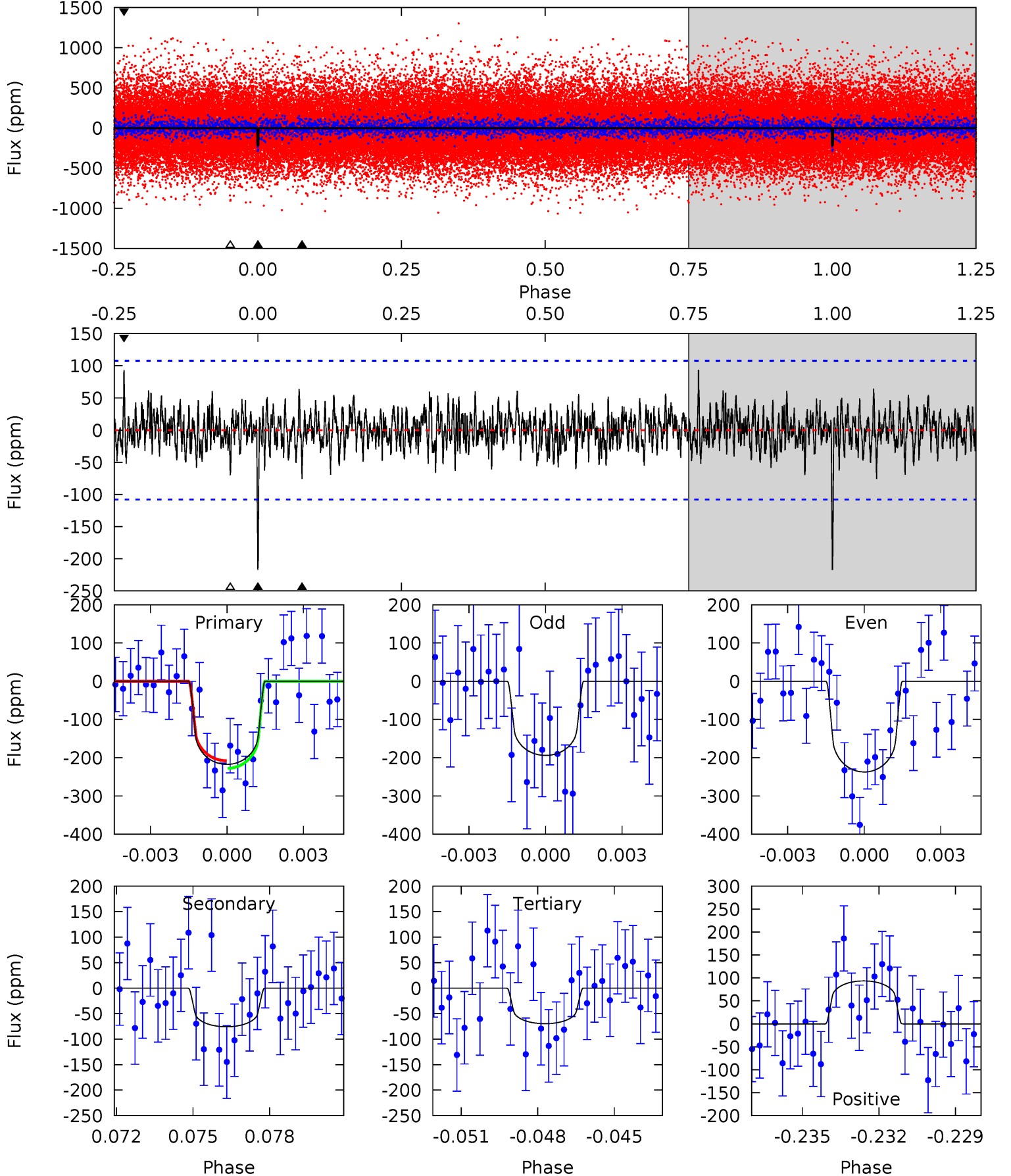
TCE 001718189-03 P= 86.722352 Days $T_0=195.354662$ (BKJD)



DV Model-Shift Uniqueness Test

001718189-03, P = 86.723349 Days, E = 108.614714 Days

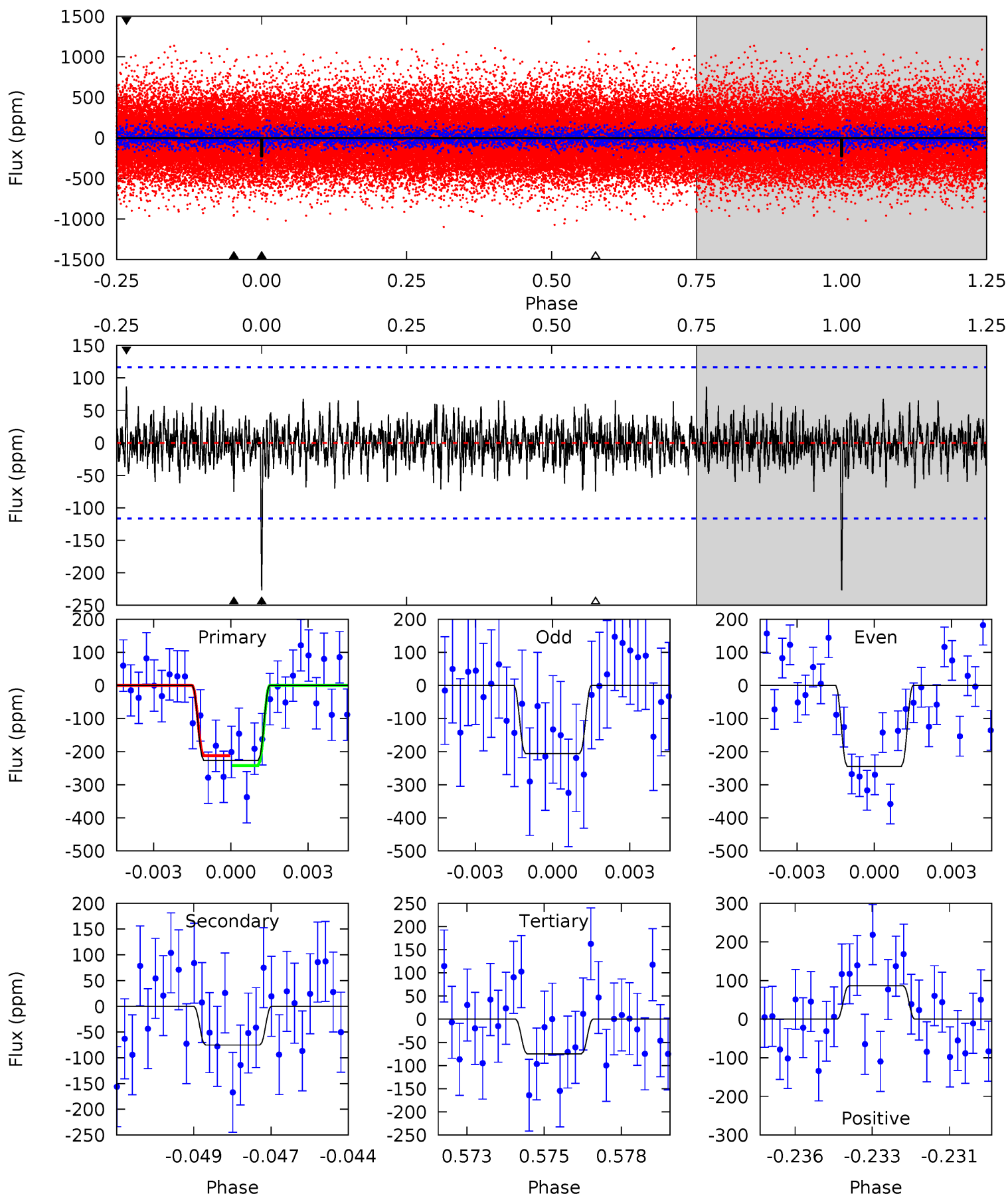
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.6	3.69	3.40	4.55	5.25	2.97	1.11	7.19	6.04	0.29	-0.86	1.05	0.89	0.30	0.49



Alt Model-Shift Uniqueness Test

001718189-03, $P = 86.722352$ Days, $E = 108.632310$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.3	3.41	3.38	3.93	5.28	3.01	1.00	6.89	6.34	0.02	-0.52	0.88	0.93	0.28	0.68



Stellar Parameters For KIC 001718189

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5830^{+146}_{-161}	$4.540^{+0.044}_{-0.187}$	$-0.140^{+0.300}_{-0.300}$	$0.876^{+0.234}_{-0.078}$	$0.970^{+0.099}_{-0.122}$	$2.036^{+0.369}_{-0.992}$
	+3%/-3%	+1%/-4%	+214%/-214%	+27%/-9%	+10%/-13%	+18%/-49%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 001718189-03 / KOI 0993.03

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-76 ± 21	$1.60^{+1.13}_{-0.95}$	557^{+38}_{-24}	4453^{+2219}_{-802}	2216^{+11755}_{-1487}
Alt.	-75 ± 22	$1.71^{+1.18}_{-1.03}$	556^{+35}_{-21}	4348^{+2107}_{-755}	1950^{+10554}_{-1302}

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 $A_{obs} \gg 1.0$

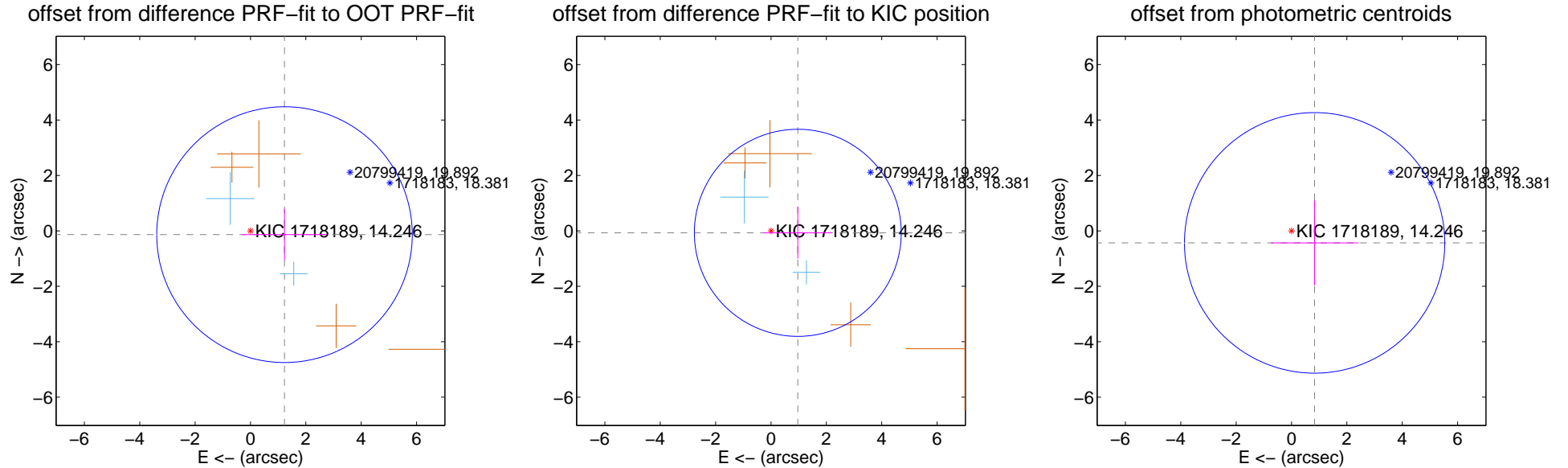
DV Centroid Data

Supplemental centroid analysis for 001718189-03. Kepler magnitude: 14.25. Transit SNR 8.97

There are 2 quarters with good PRF difference image offsets

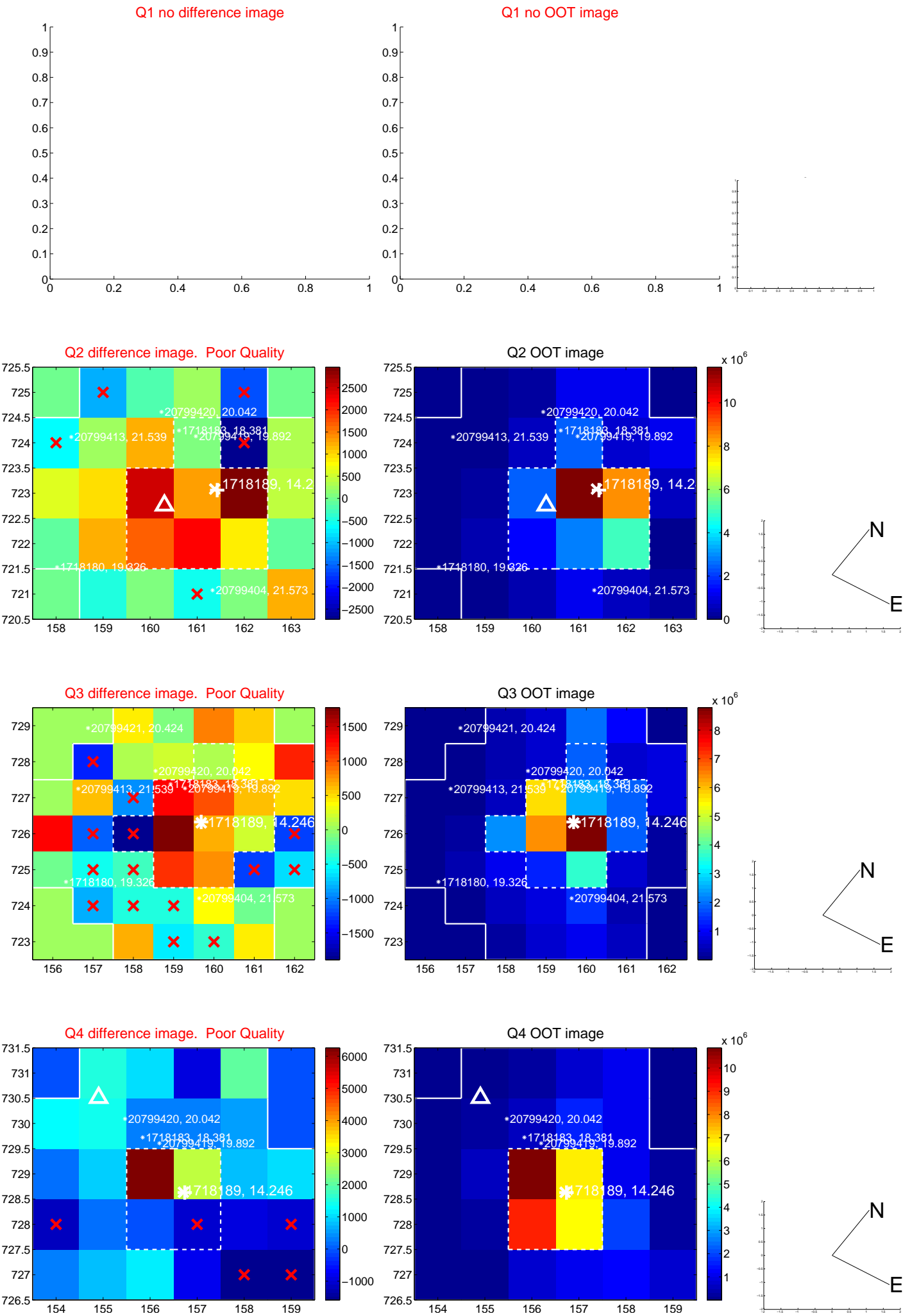
The direct PRF centroid is offset from the target star catalog position by about 0.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.237 ± 1.539	0.80	-1.230 ± 1.535	-0.136 ± 0.920
PRF-fit source offset from KIC position	0.971 ± 1.246	0.78	-0.969 ± 1.230	-0.071 ± 0.935
photometric centroid source offset	0.94 ± 1.57	0.60	-0.83 ± 1.58	-0.43 ± 1.54

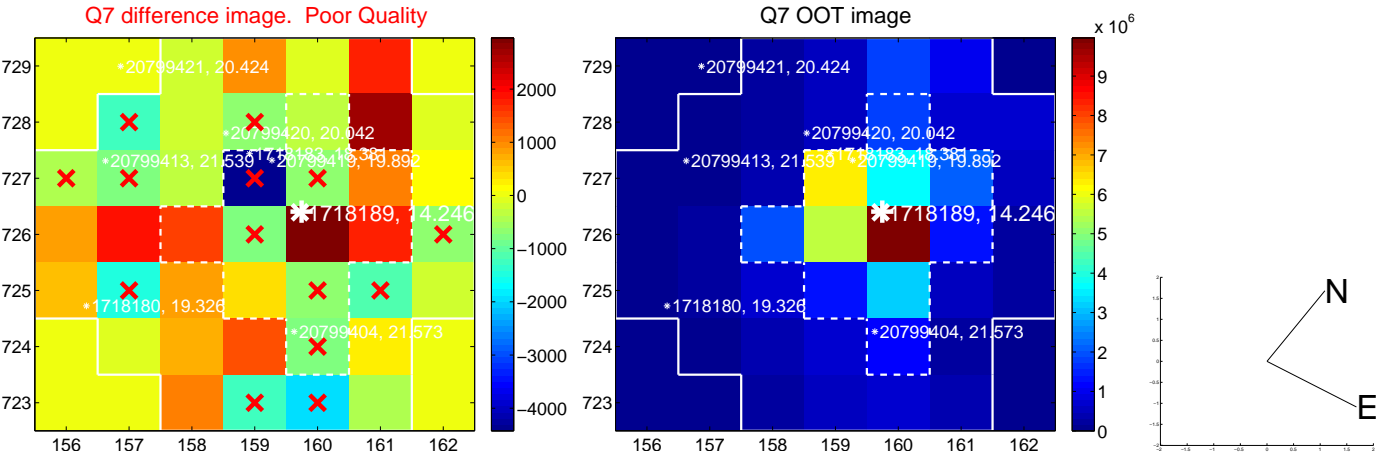
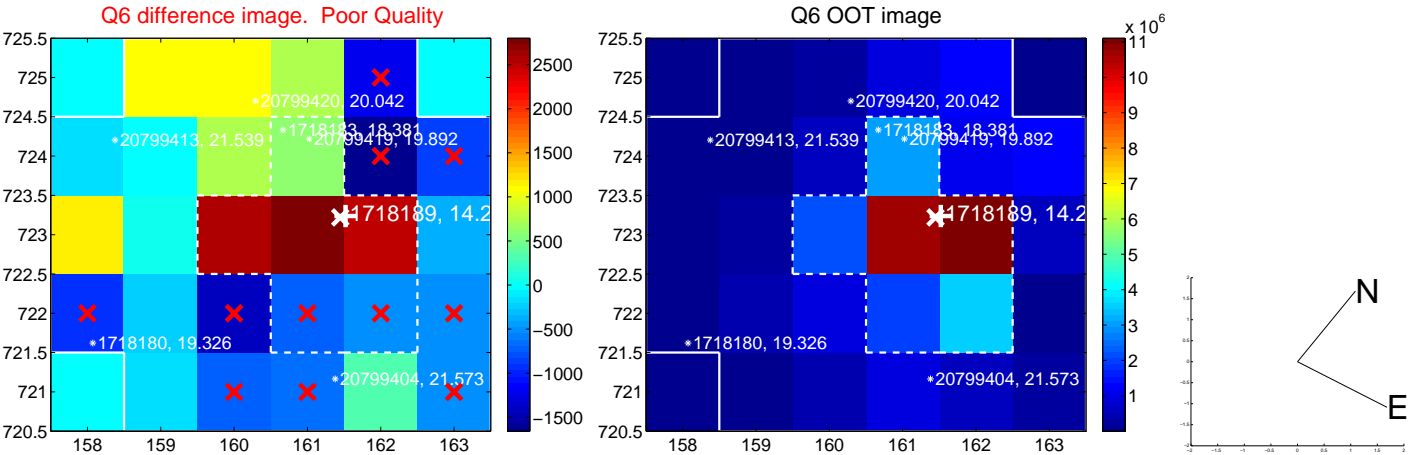
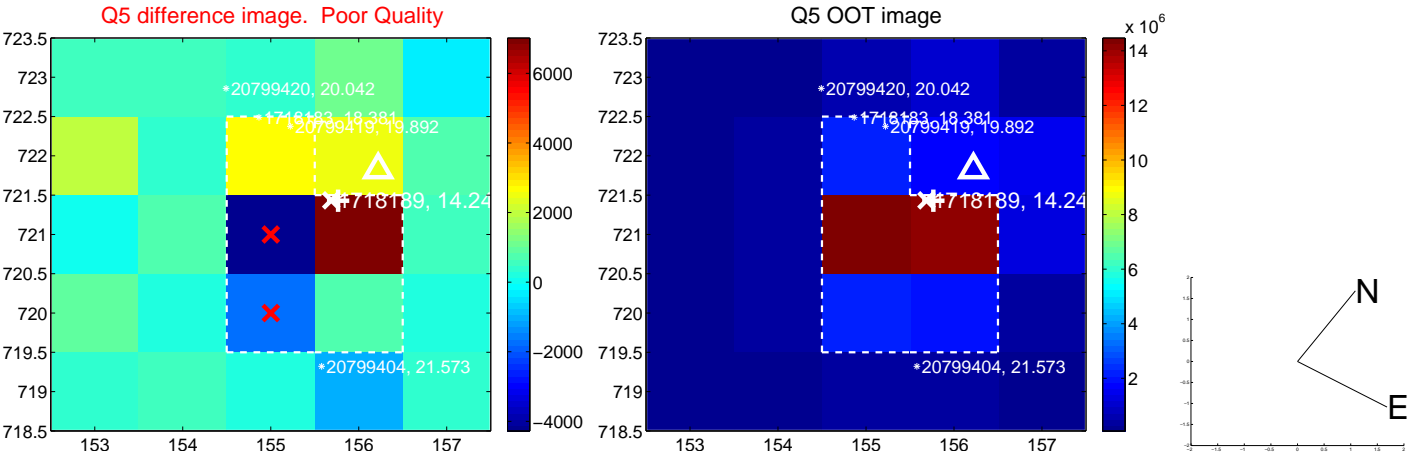


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

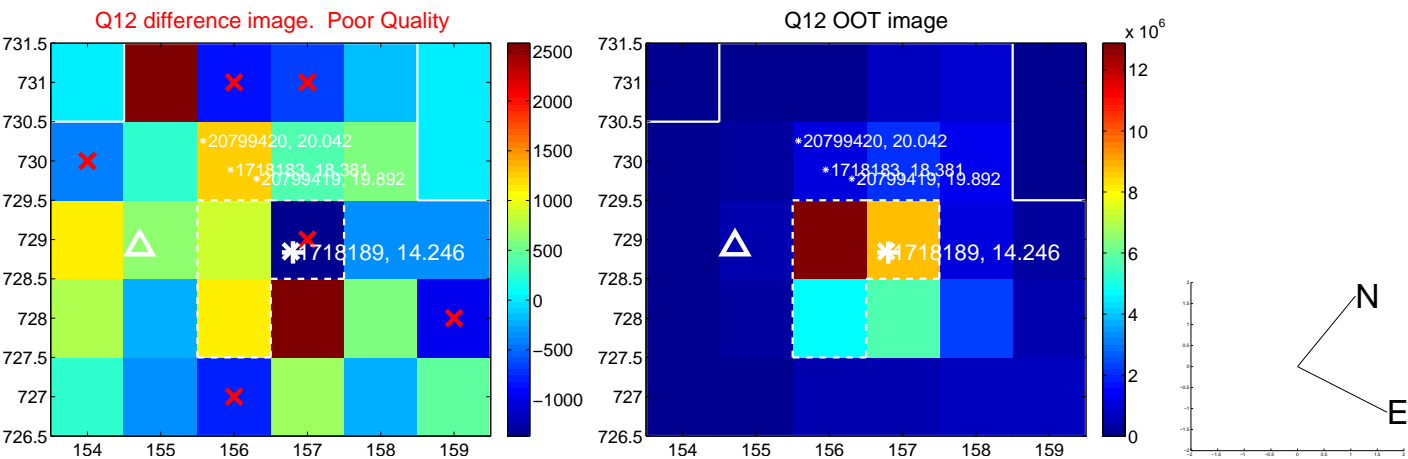
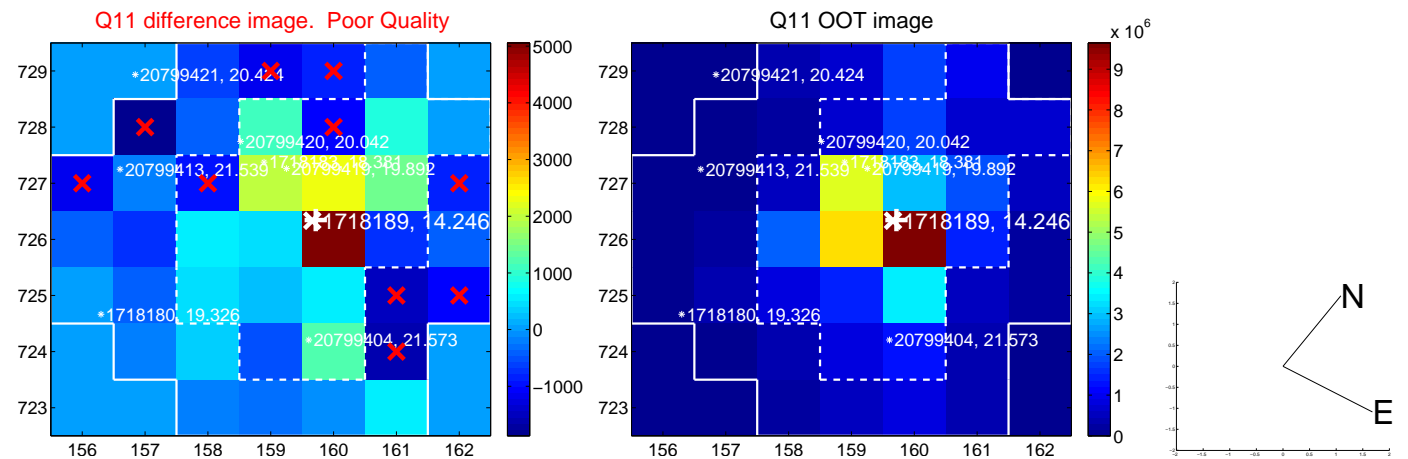
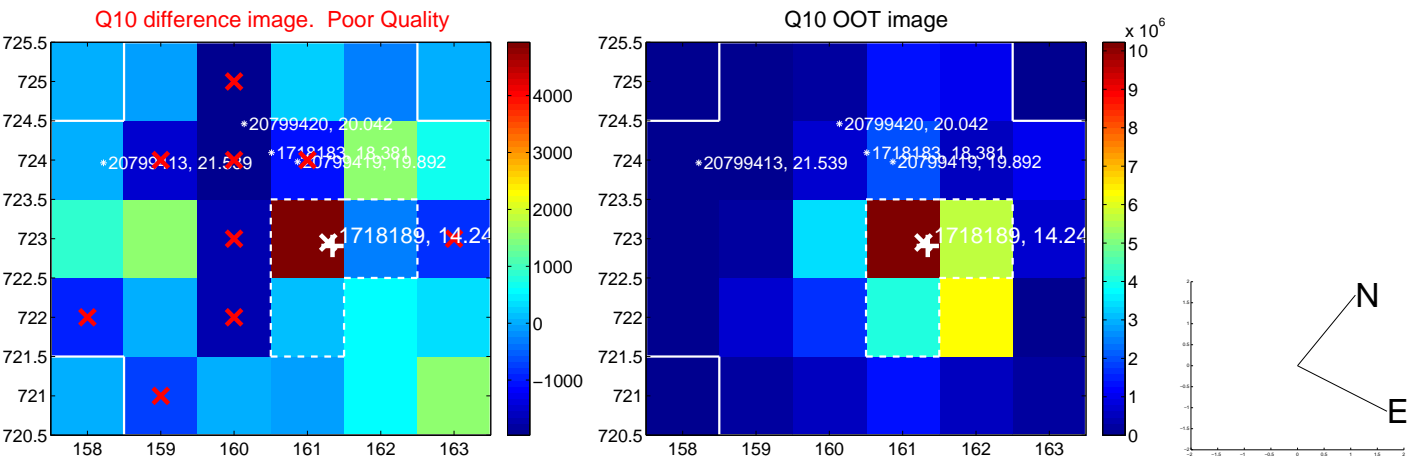
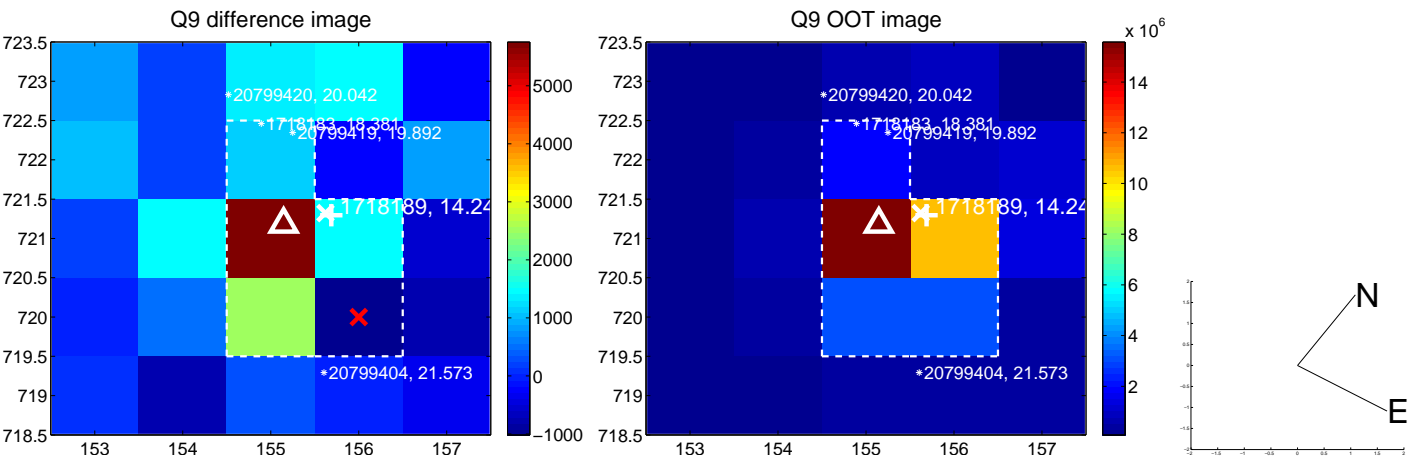
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



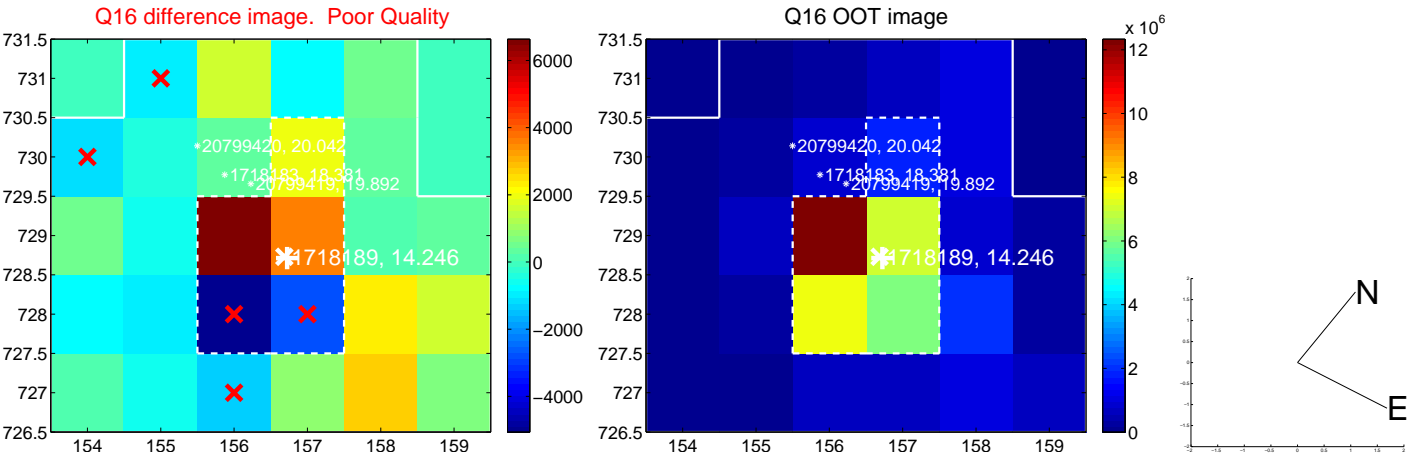
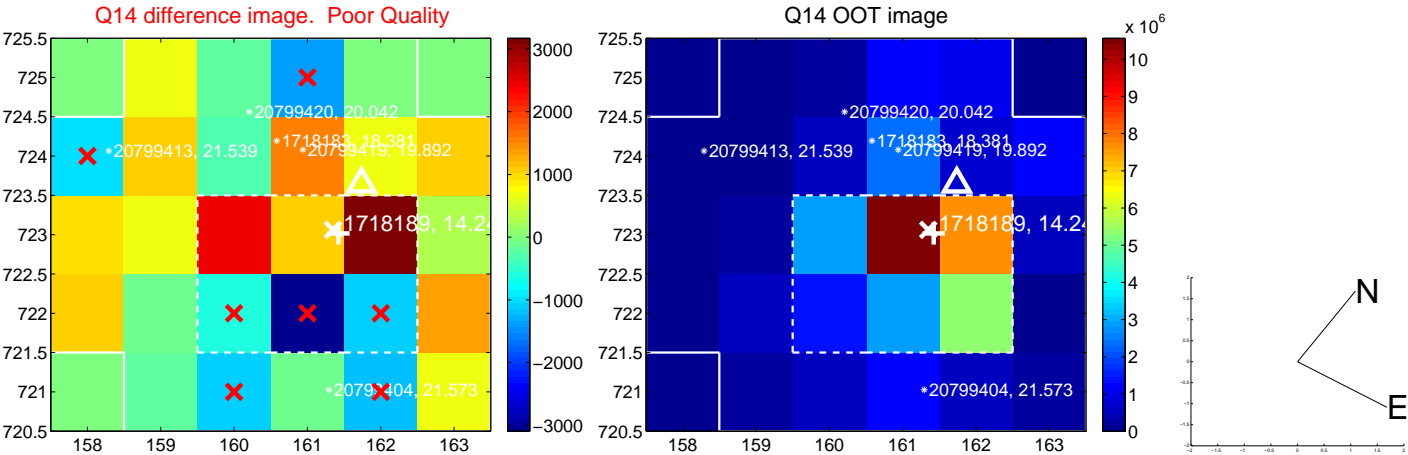
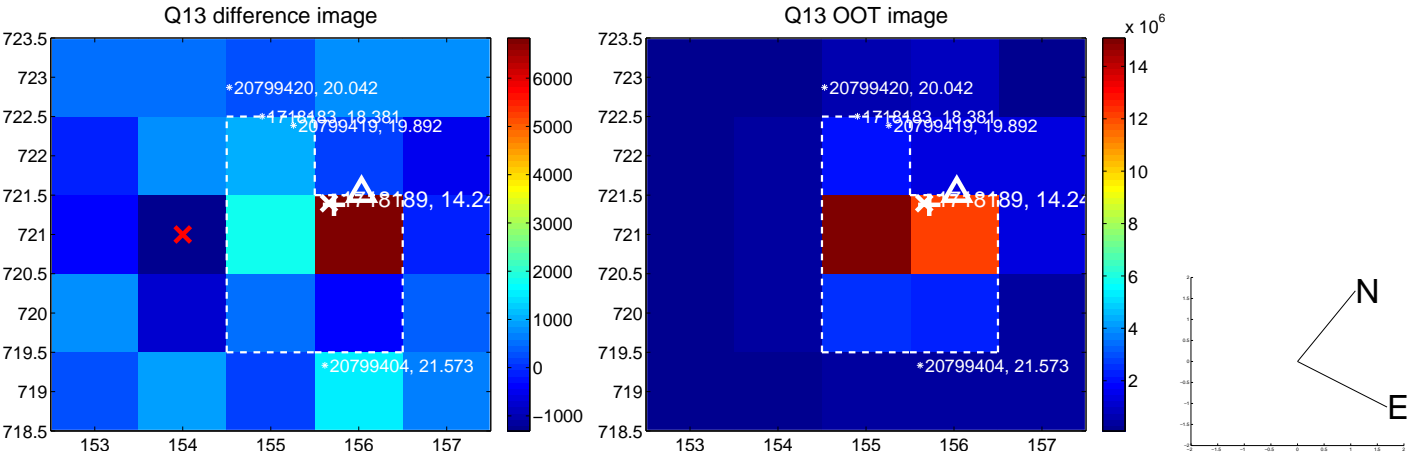
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



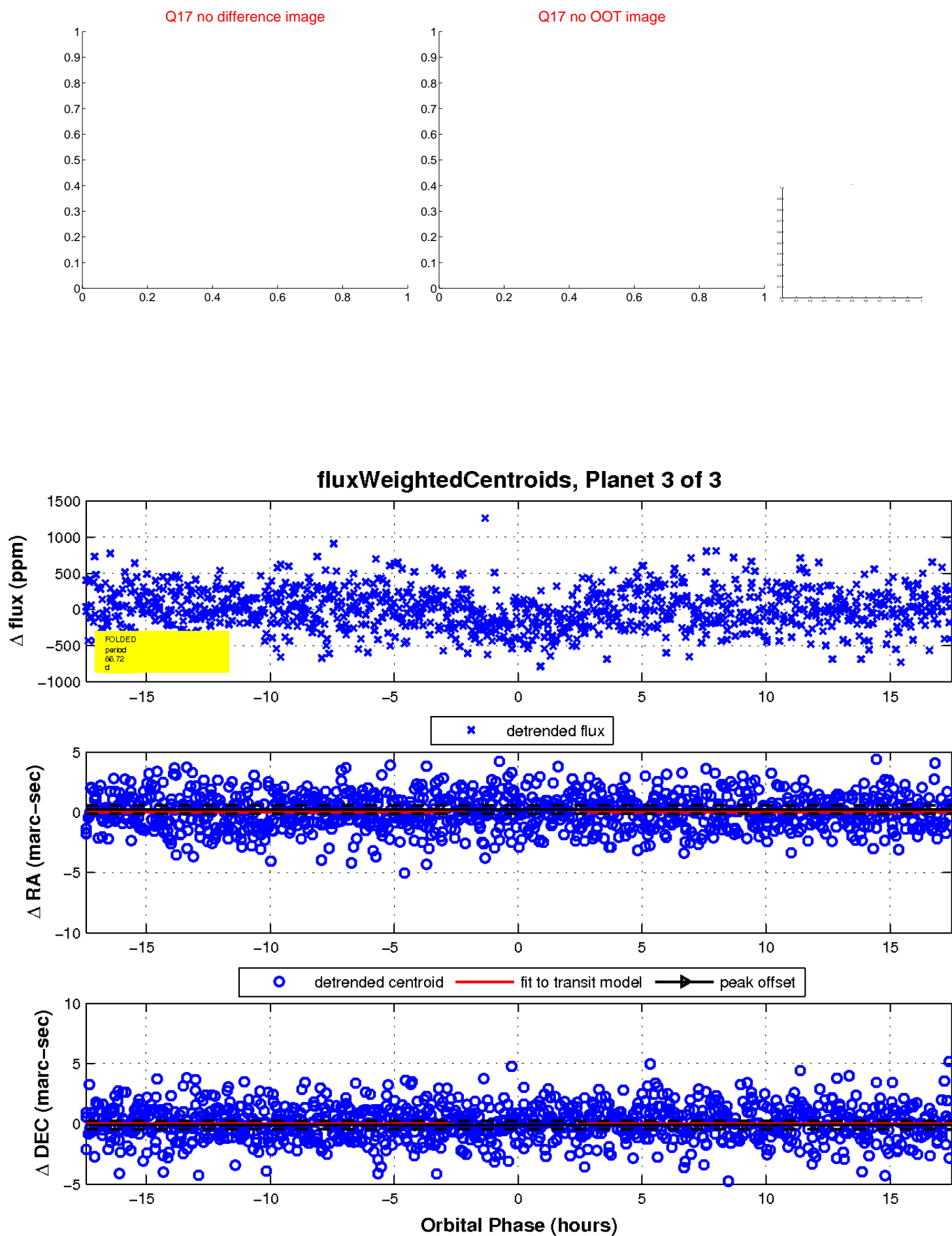
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

