

KIC 003534192

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})
003534192-01	OBS	No	1.869257	131.781275	23.7	8.006	8.1	7.4	3.67	6680	1.88	18605.06
003534192-02	OBS	No	81.461805	206.414919	244.9	3.091	7.4	8.2	3.67	6680	6.34	121.32
003534192-03	OBS	No	162.873111	276.473371	327.4	2.316	7.1	7.3	3.67	6680	7.06	48.16

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003534192-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV
003534192-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
003534192-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT

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

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

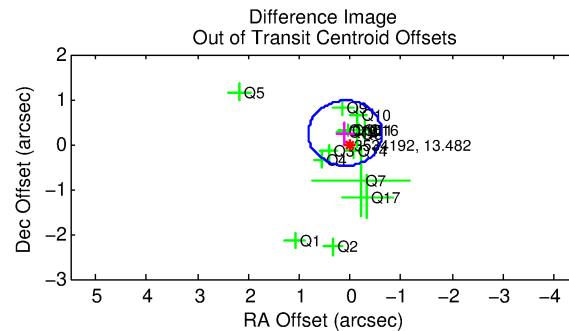
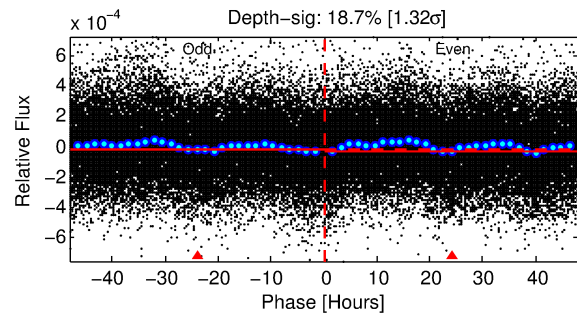
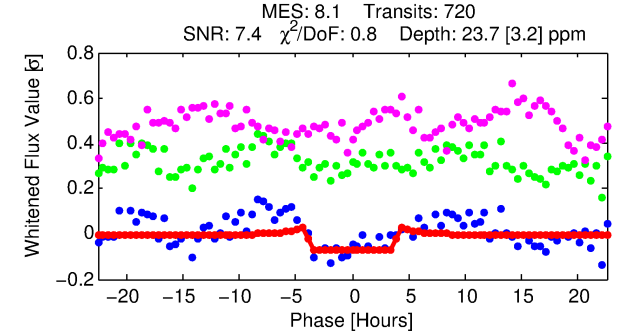
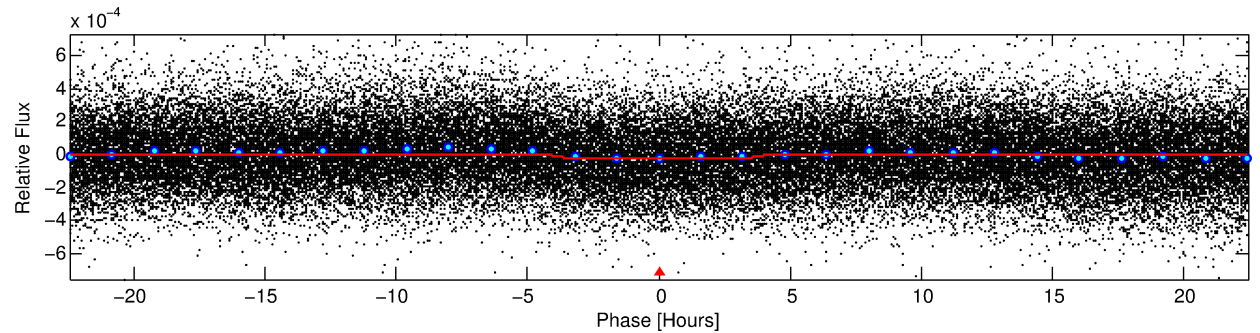
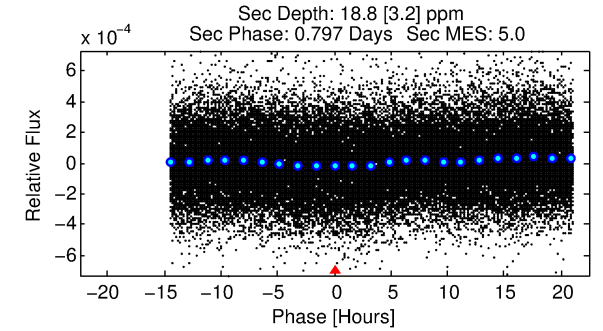
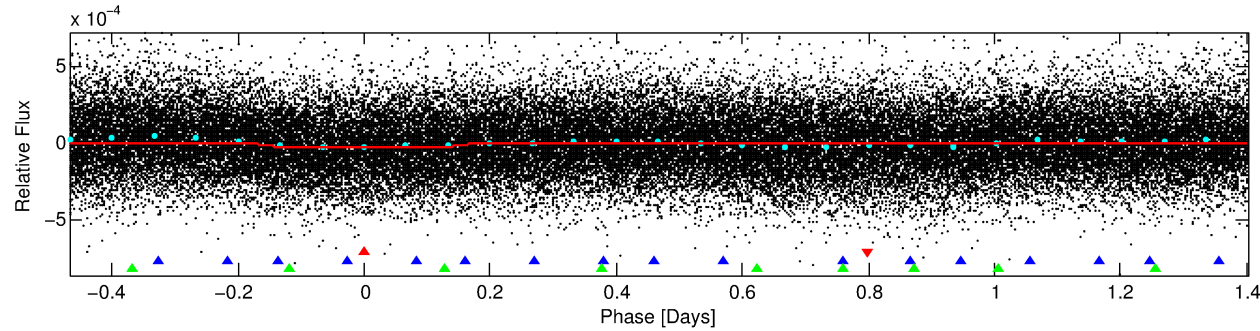
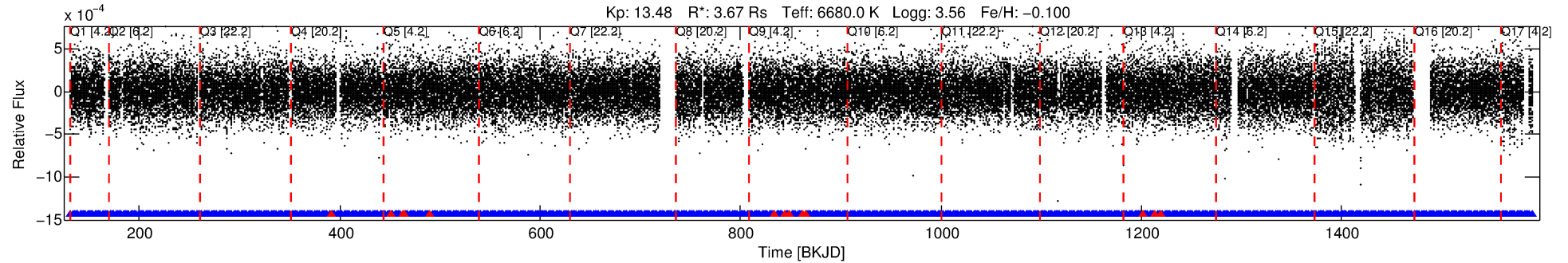
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003534192-01

No Significant Match Found

DV One-Page Summary

KIC: 3534192 Candidate: 1 of 3 Period: 1.869 d



DV Fit Results:

Period = 1.86926 [0.00003] d
Epoch = 131.7813 [0.0066] BKJD
Rp/R* = 0.0047 [0.0018]
a/R* = 1.60 [2.10]
b = 0.63 [2.06]
Seff = 18605.06 [10237.28]
Teq = 2978 [410] K
Rp = 1.88 [1.00] Re
a = 0.0359 [0.0123] AU
Ag = 3.76 [3.59] [0.77σ]
Teffp = 6411 [1281] K [2.55σ]

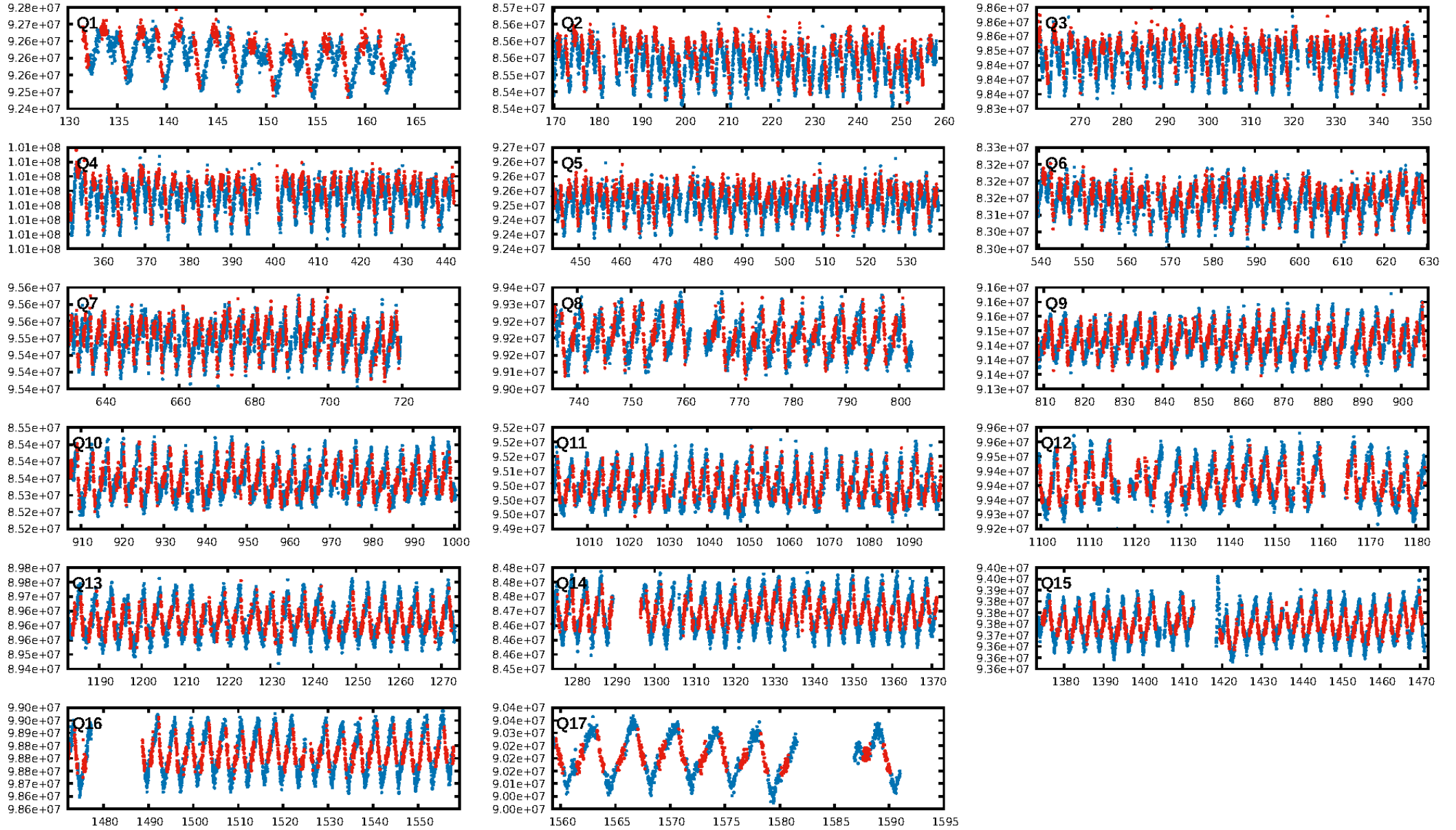
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [222.58σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.83e-11
RollingBand-fgt: 0.98 [675/688]
GhostDiagnostic-chr: 1.764
Centroid-sig: 93.7%
Centroid-so: 0.296 arcsec [0.29σ]
OotOffset-rm: 0.265 arcsec [1.10σ]
OotOffset-st: 3/4/4/5 [16]
KicOffset-rm: 0.355 arcsec [1.49σ]
KicOffset-st: 3/4/4/5 [16]
DiffImageQuality-fgm: 0.62 [10/16]
DiffImageOverlap-fno: 1.00 [17/17]

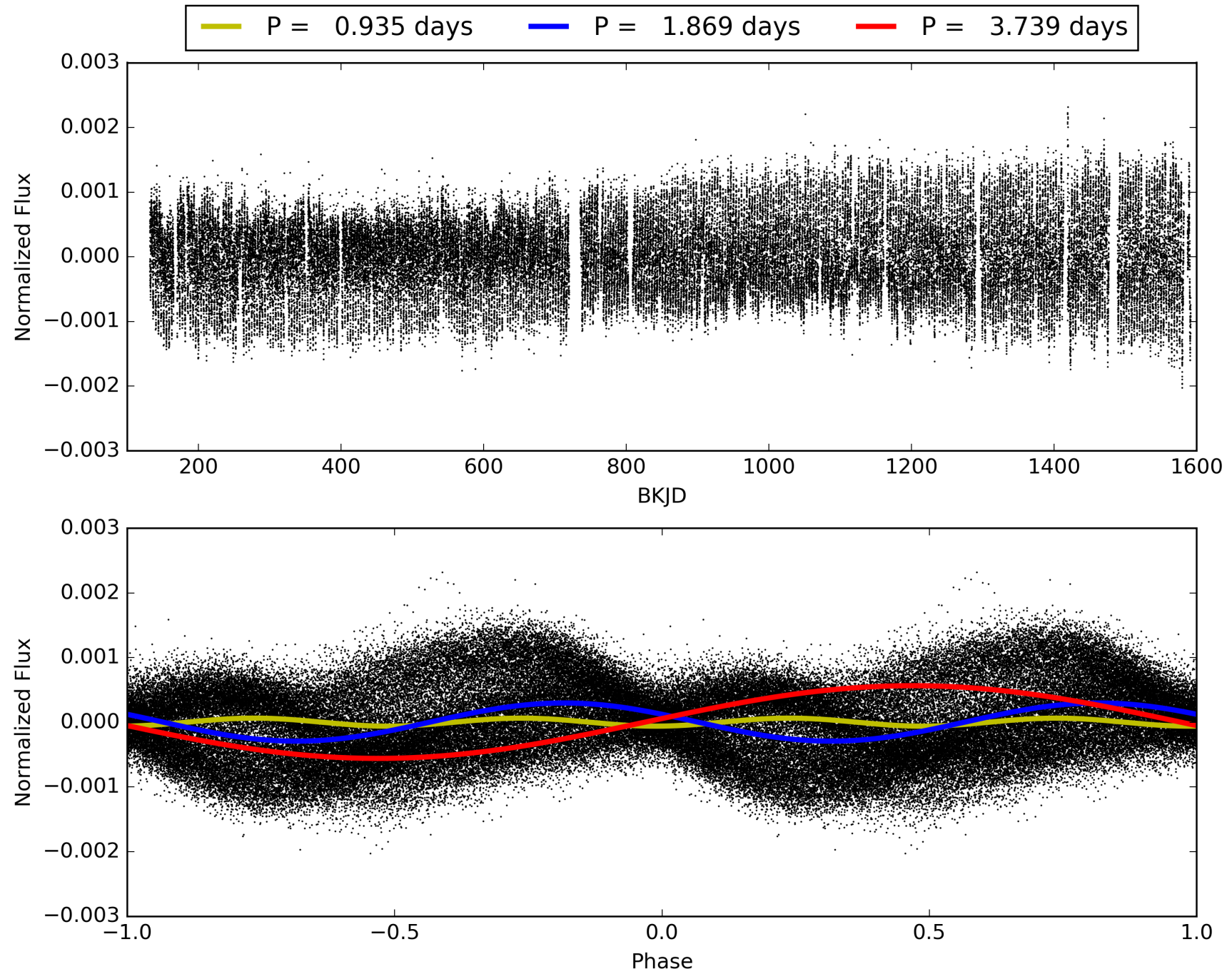
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 04:38:01 Z

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

TCE 003534192-01, PDC Light Curves

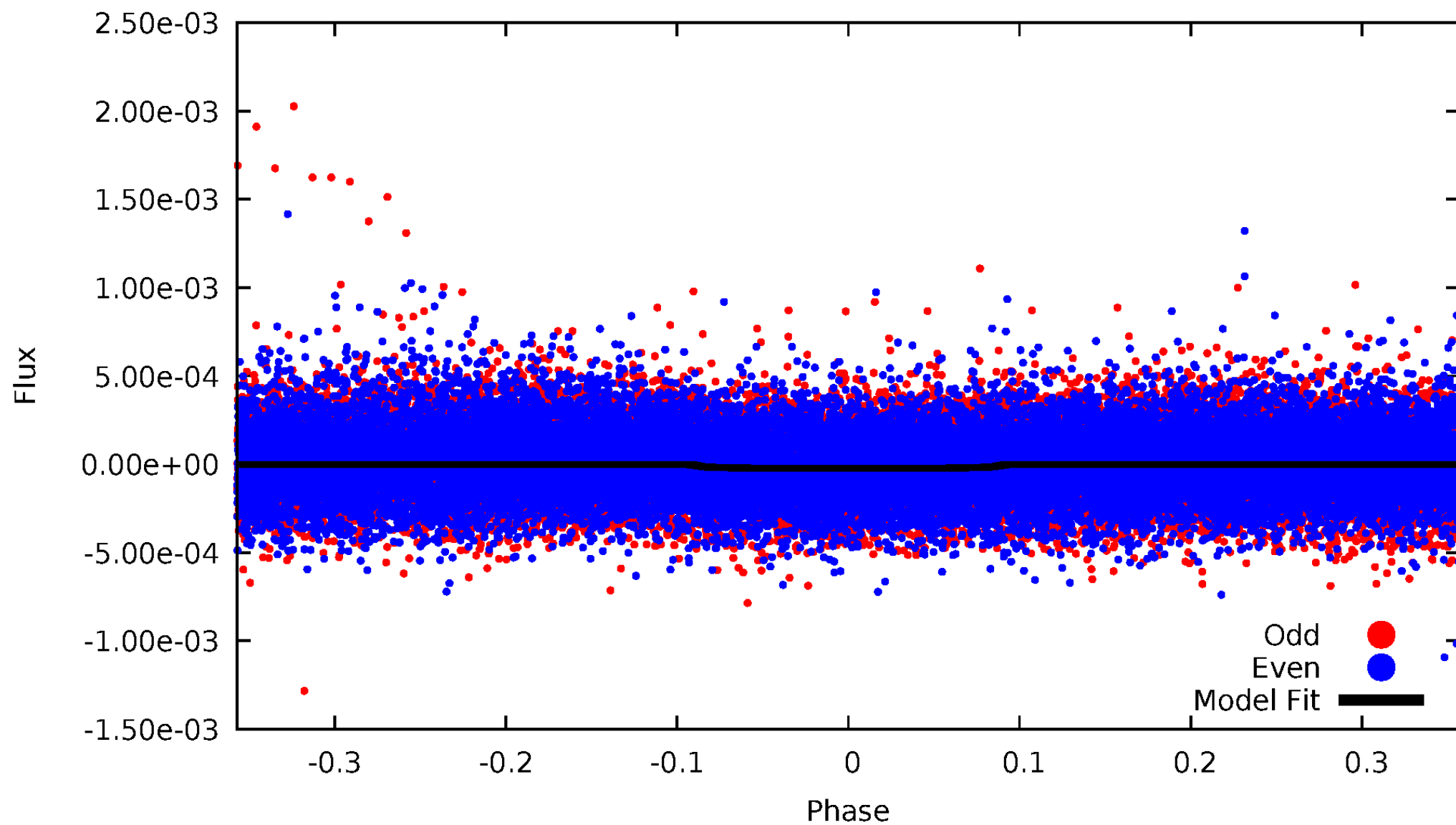


TCE 003534192-01



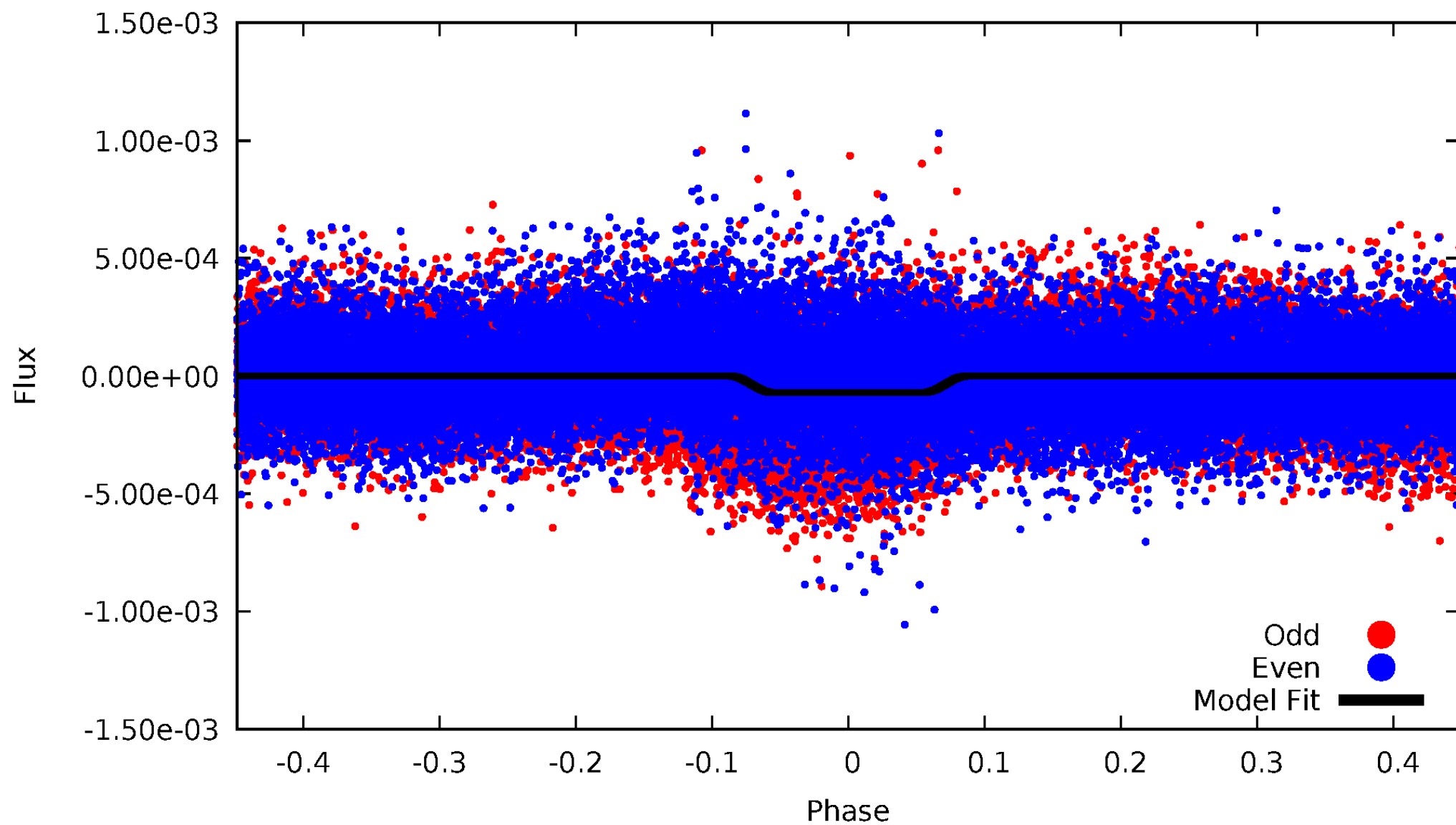
DV Odd/Even

TCE 003534192-01

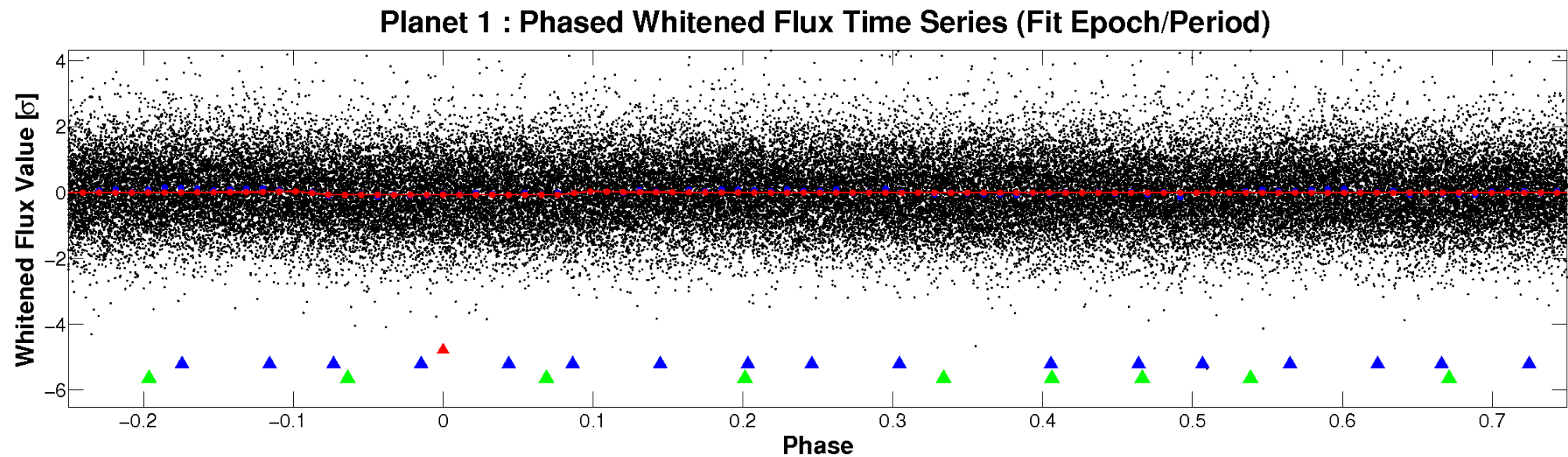
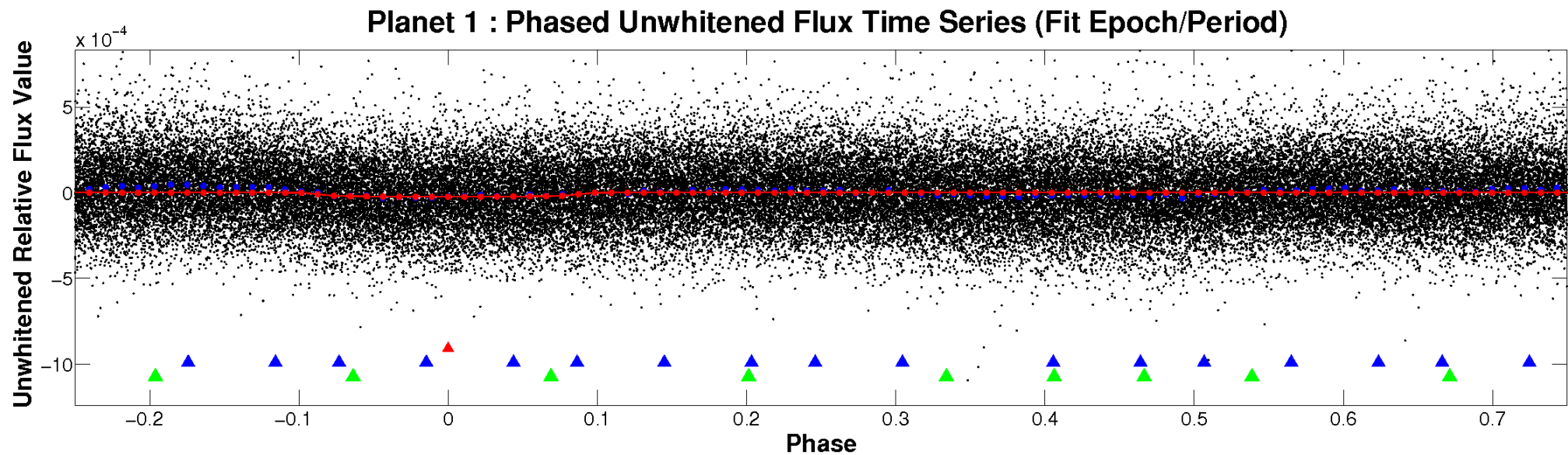


ALT Odd/Even

TCE 003534192-01

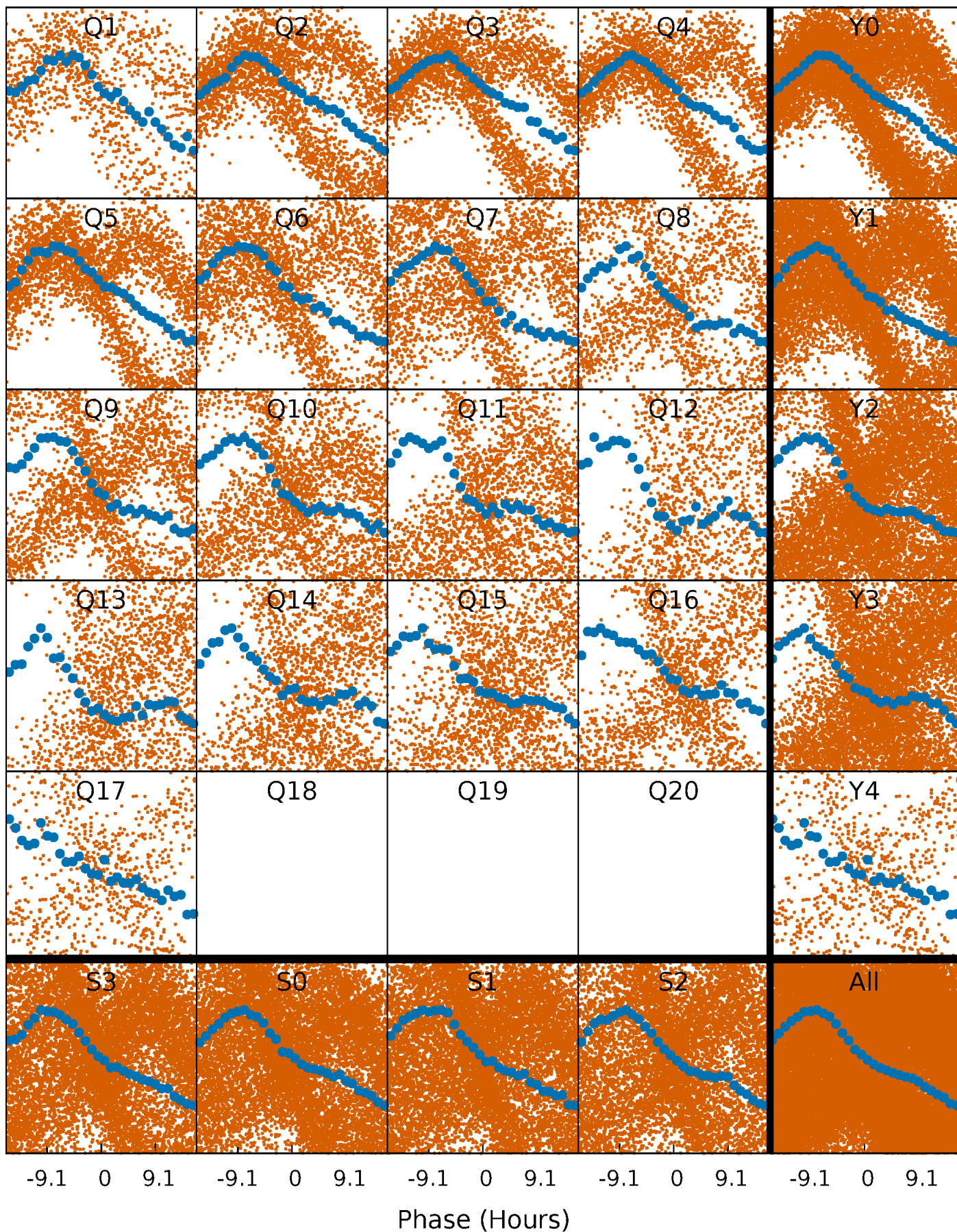


Non-Whitened Vs. Whitened Light Curve



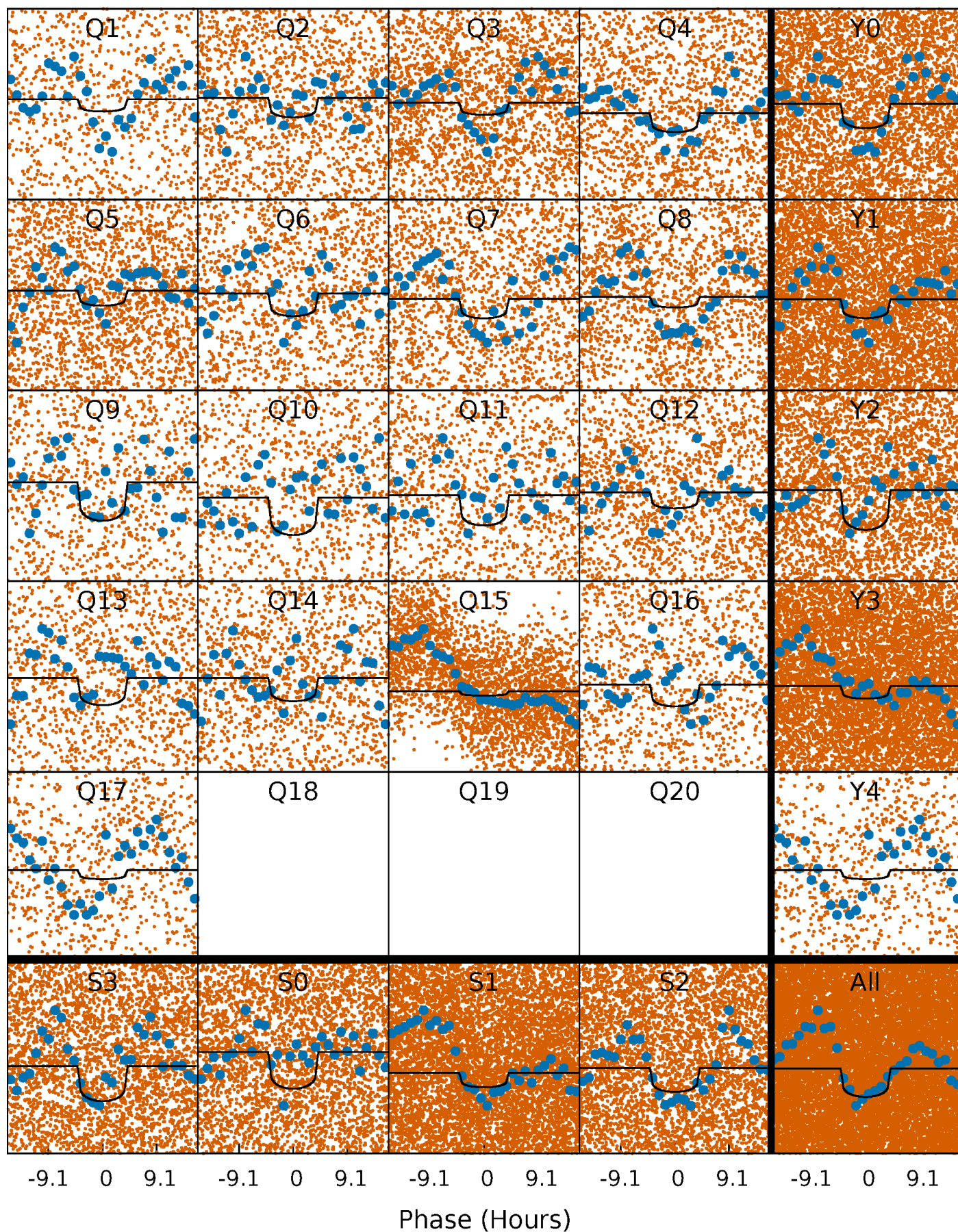
PDC Quarter-Phased Transit Curves

TCE 003534192-01 P= 1.869257 Days $T_0=131.781275$ (BKJD)



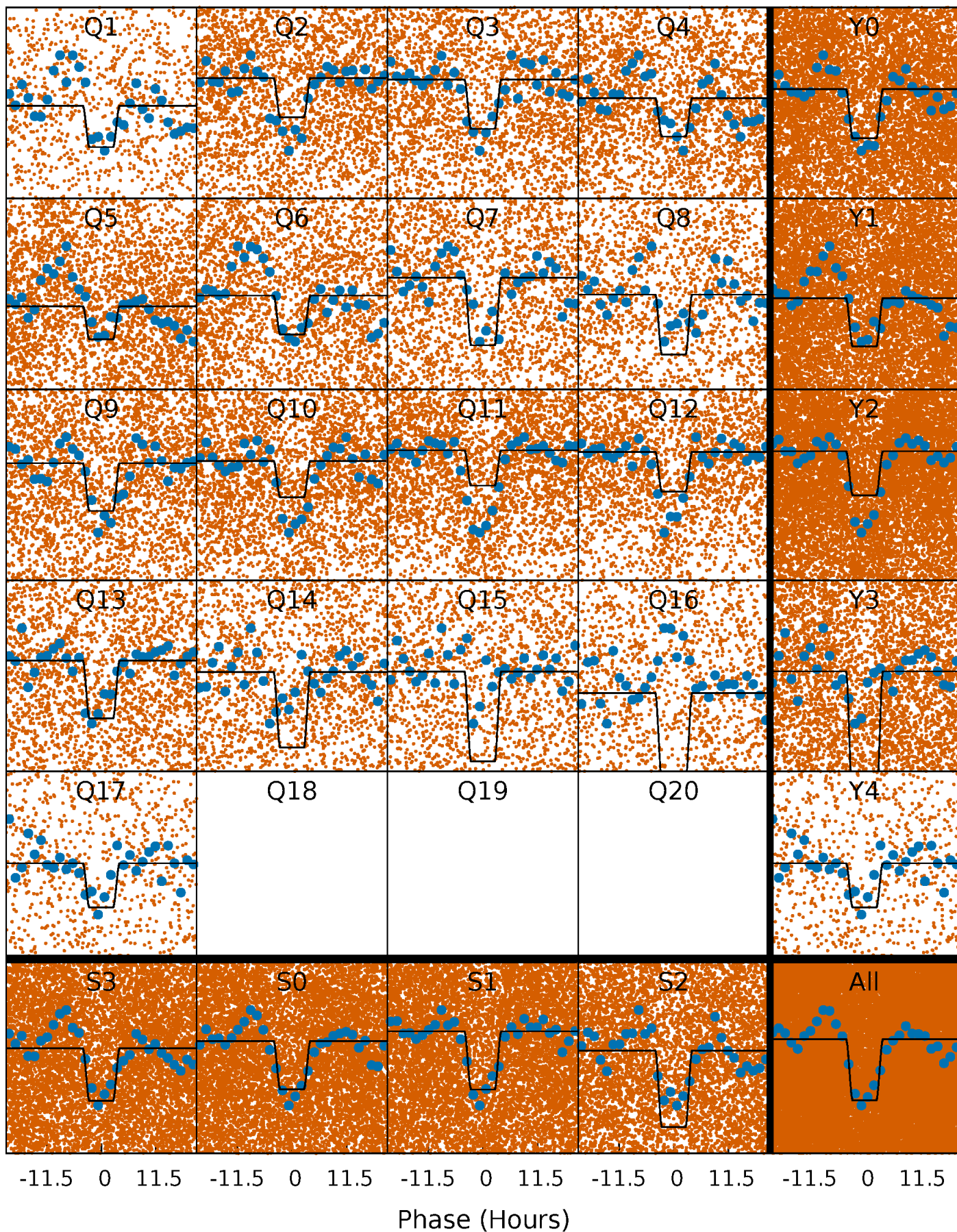
DV Quarter-Phased Transit Curves

TCE 003534192-01 P= 1.869257 Days $T_0=131.781275$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

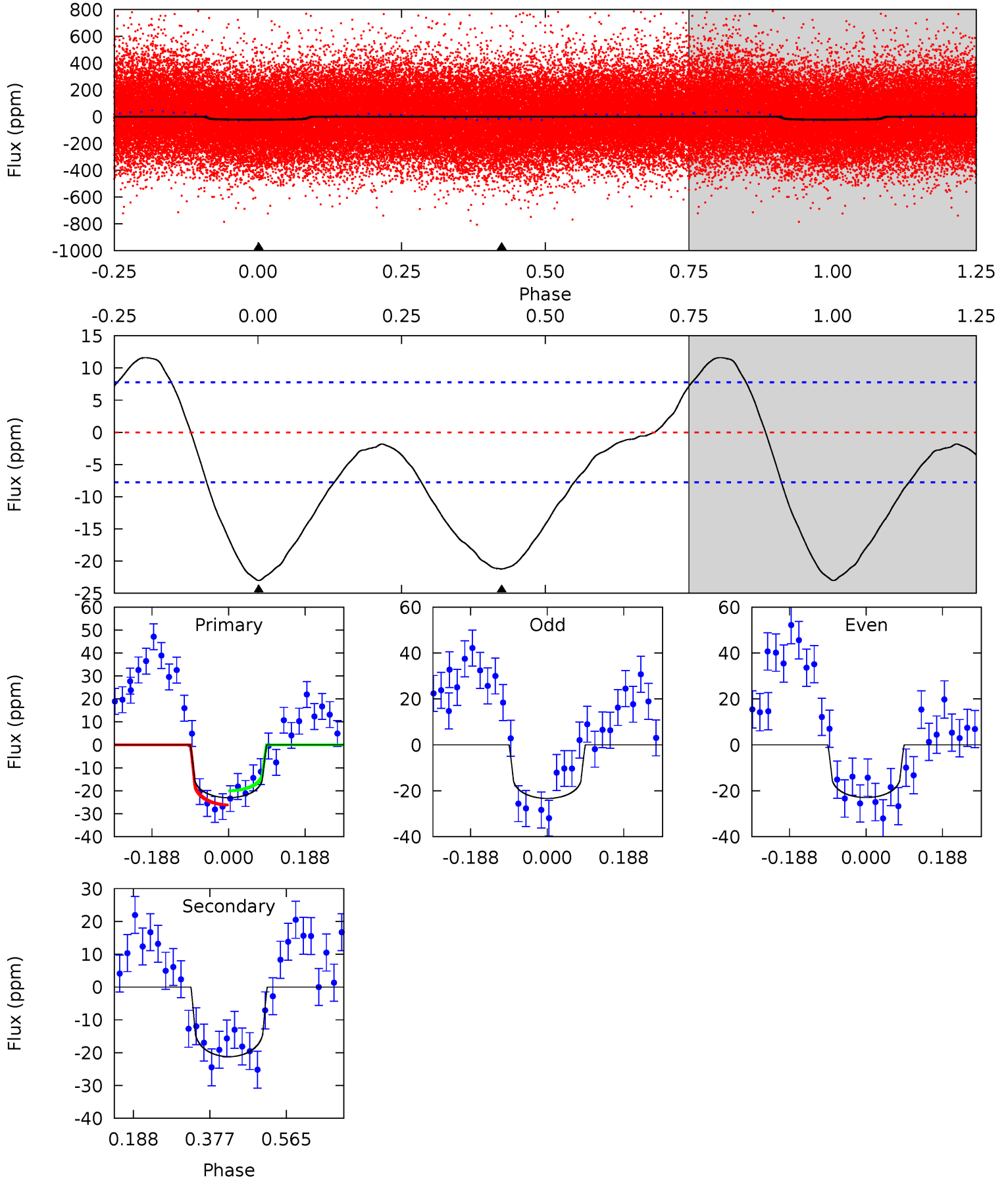
TCE 003534192-01 P= 1.869090 Days $T_0=131.815622$ (BKJD)



DV Model-Shift Uniqueness Test

003534192-01, P = 1.869257 Days, E = 129.912018 Days

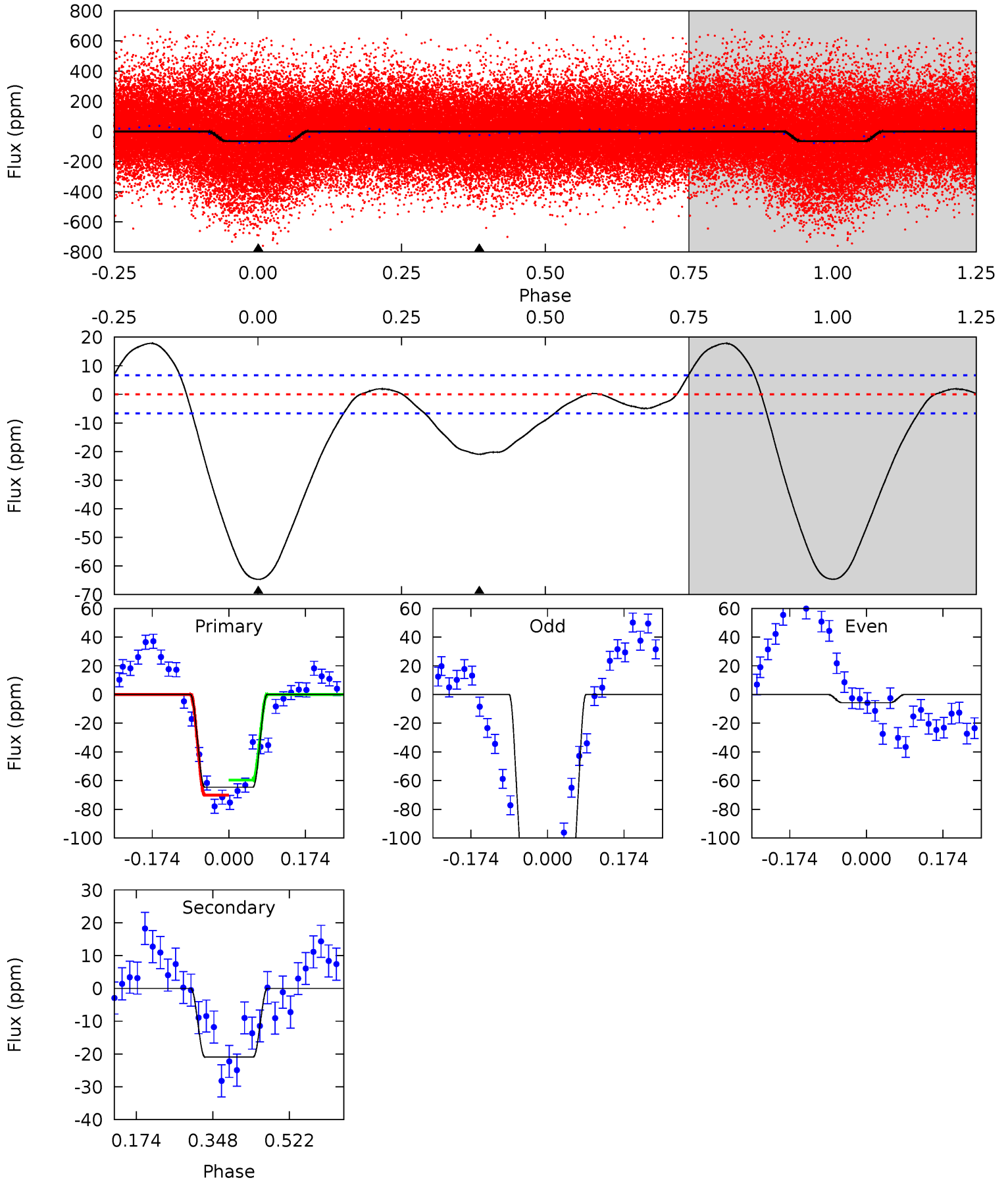
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.1	12.1	0	0	4.43	1.32	2.84	13.1	13.1	12.1	12.1	0.11	1.02	0.34	1.78



Alt Model-Shift Uniqueness Test

003534192-01, P = 1.869090 Days, E = 129.946532 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
43.1	14.0	0	0	4.45	1.36	5.03	43.1	43.1	14.0	14.0	37.7	1.00	0.22	3.44



Stellar Parameters For KIC 003534192

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6680^{+180}_{-200}	$3.557^{+0.312}_{-0.078}$	$-0.100^{+0.300}_{-0.250}$	$3.671^{+0.335}_{-1.338}$	$1.775^{+0.160}_{-0.347}$	$0.051^{+0.116}_{-0.010}$
	+3%/-3%	+9%/-2%	+300%/-250%	+9%/-36%	+9%/-20%	+230%/-19%
Source	PHO1	FLK73	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 003534192-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-21 ± 2	$1.80^{+0.80}_{-0.69}$	4091^{+215}_{-330}	6405^{+2004}_{-1075}	$4.620^{+7.252}_{-2.393}$
Alt.	-21 ± 1	$3.14^{+0.90}_{-0.81}$	4101^{+199}_{-363}	4789^{+653}_{-503}	$1.519^{+1.150}_{-0.598}$

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

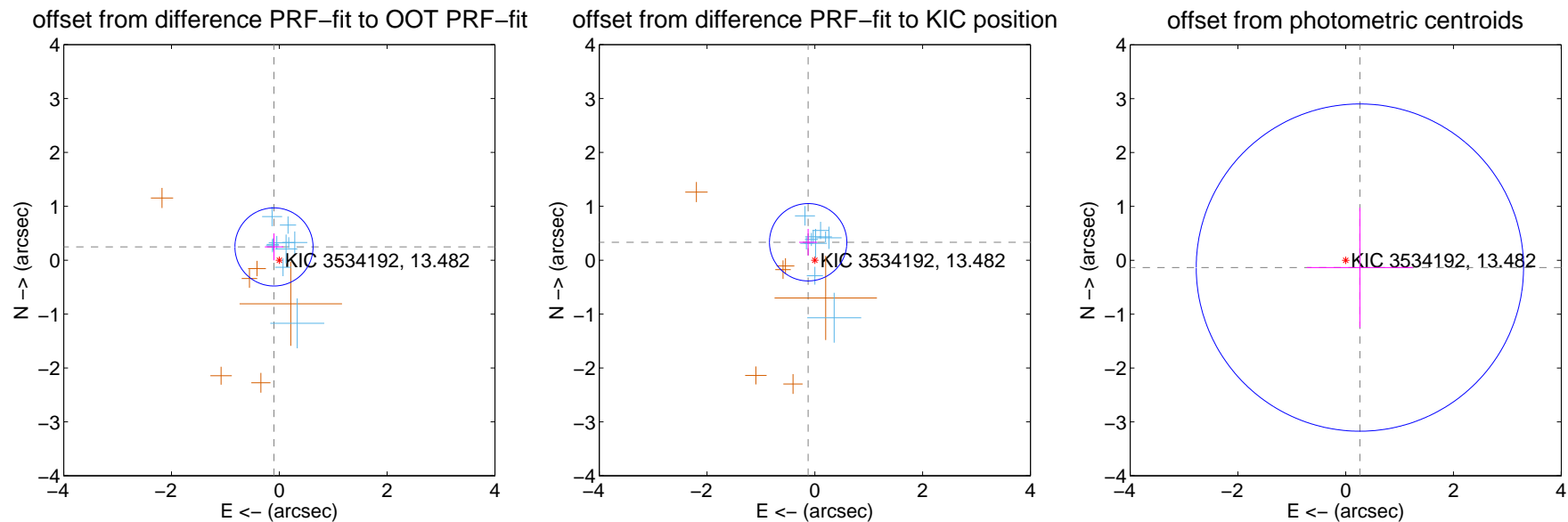
DV Centroid Data

Supplemental centroid analysis for 003534192-01. Kepler magnitude: 13.48. Transit SNR 7.40

There are 10 quarters with good PRF difference image offsets

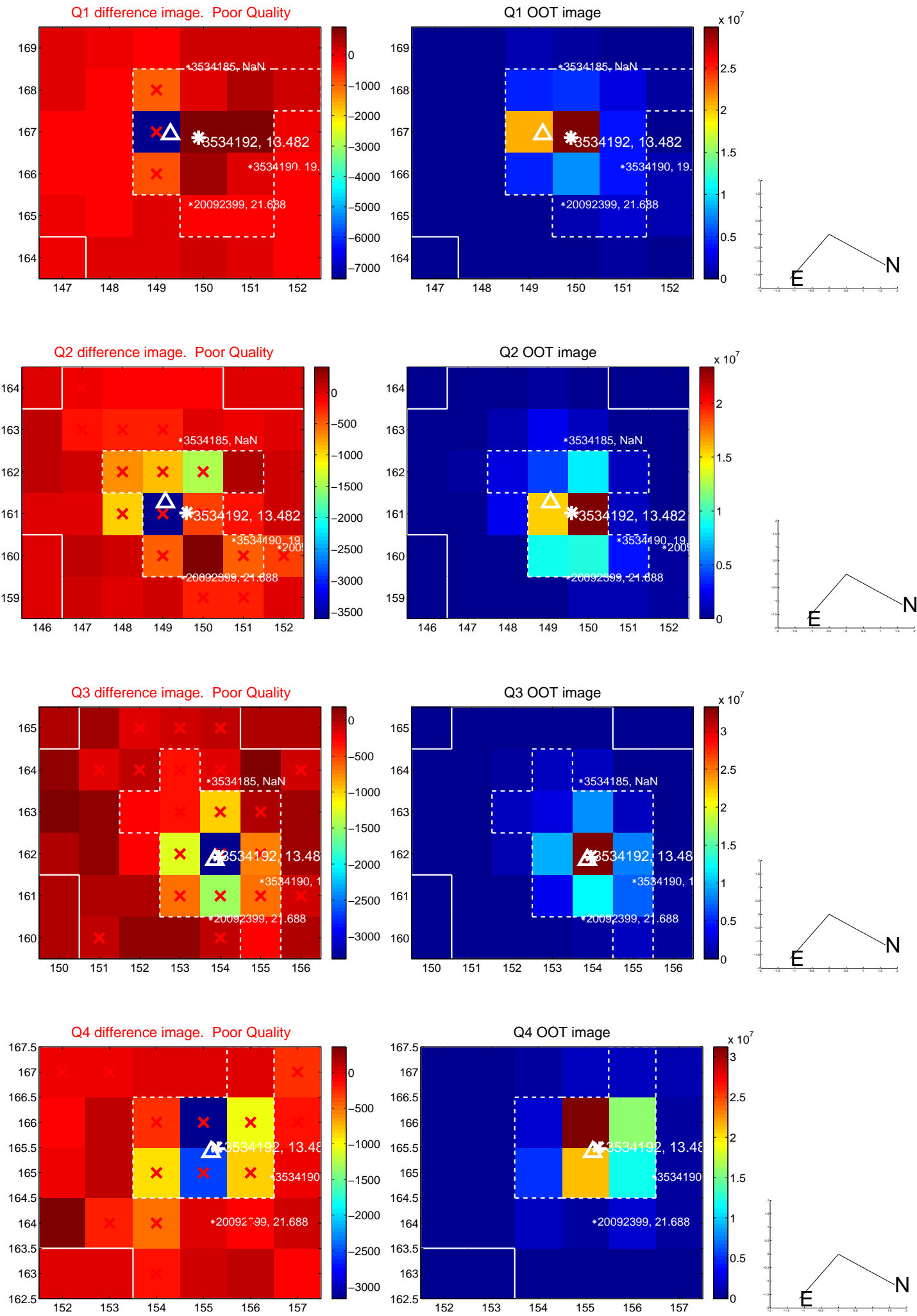
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.265 ± 0.242	1.10	0.099 ± 0.169	0.246 ± 0.248
PRF-fit source offset from KIC position	0.355 ± 0.239	1.49	0.124 ± 0.167	0.333 ± 0.246
photometric centroid source offset	0.30 ± 1.01	0.29	-0.26 ± 0.98	-0.14 ± 1.11

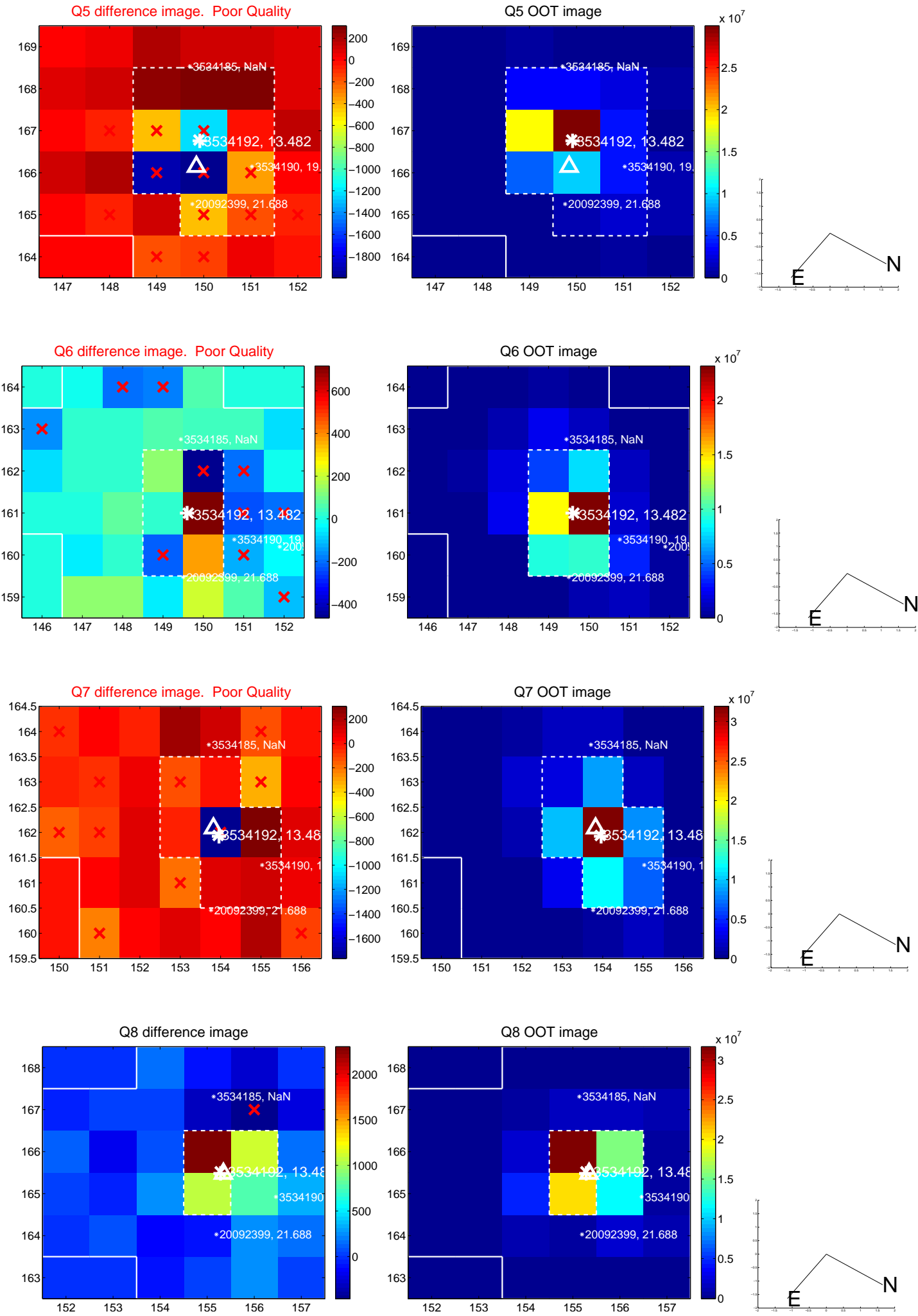


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

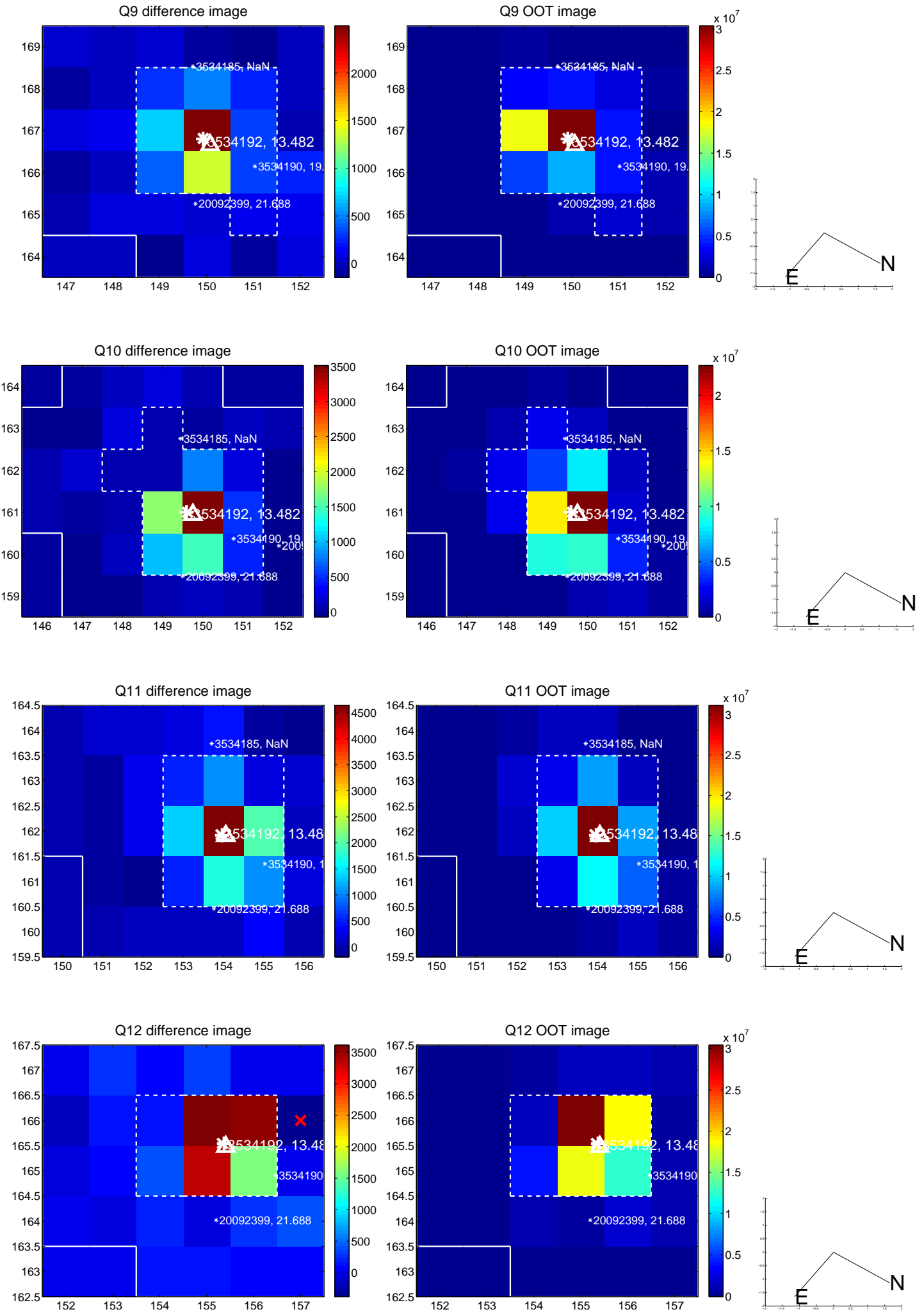
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



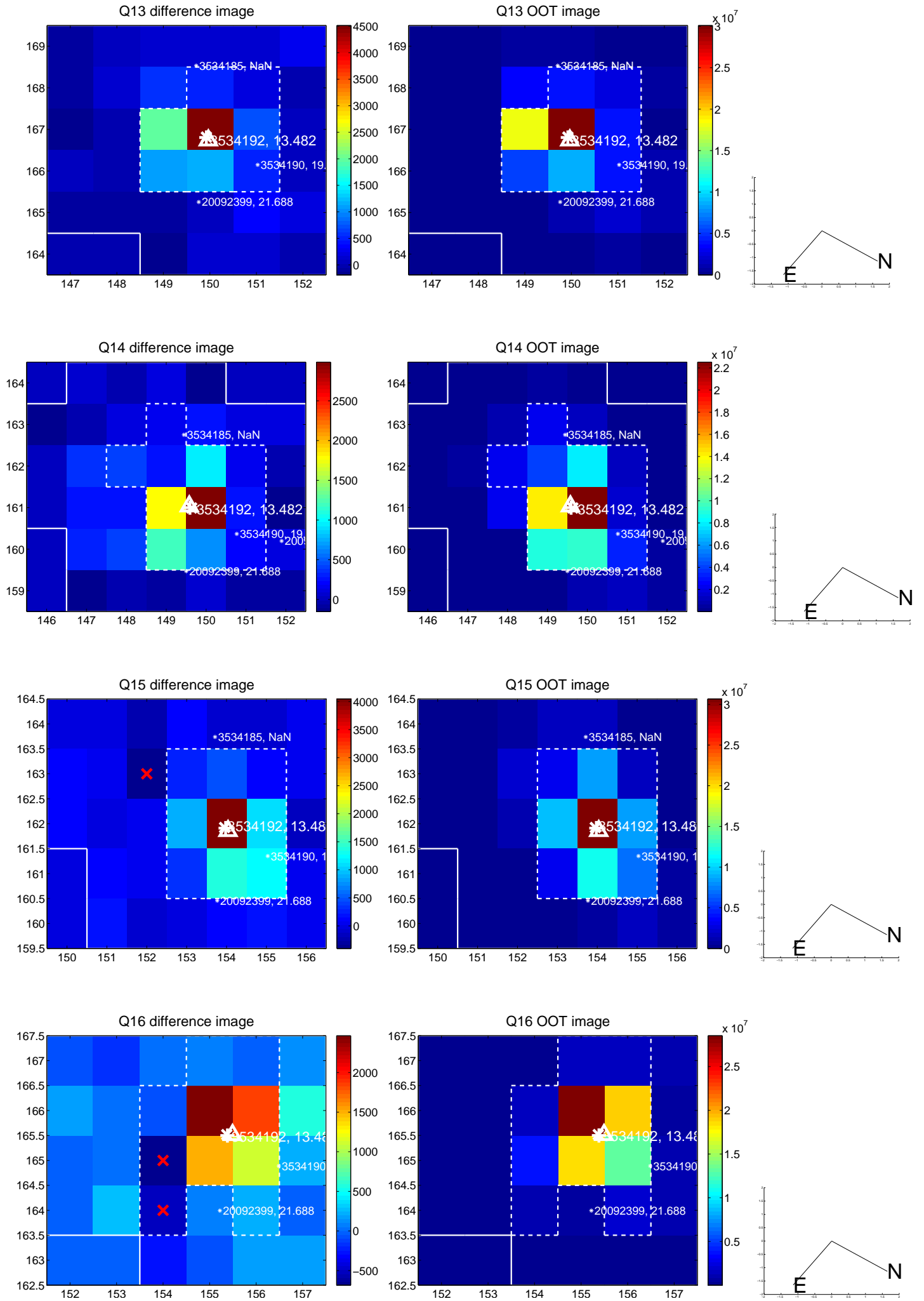
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



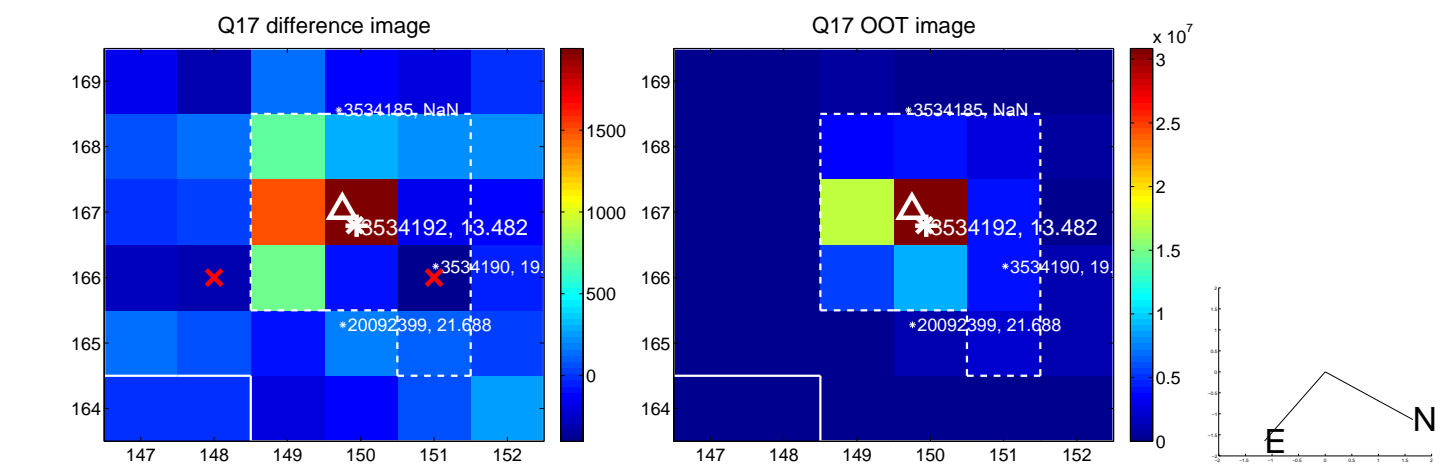
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



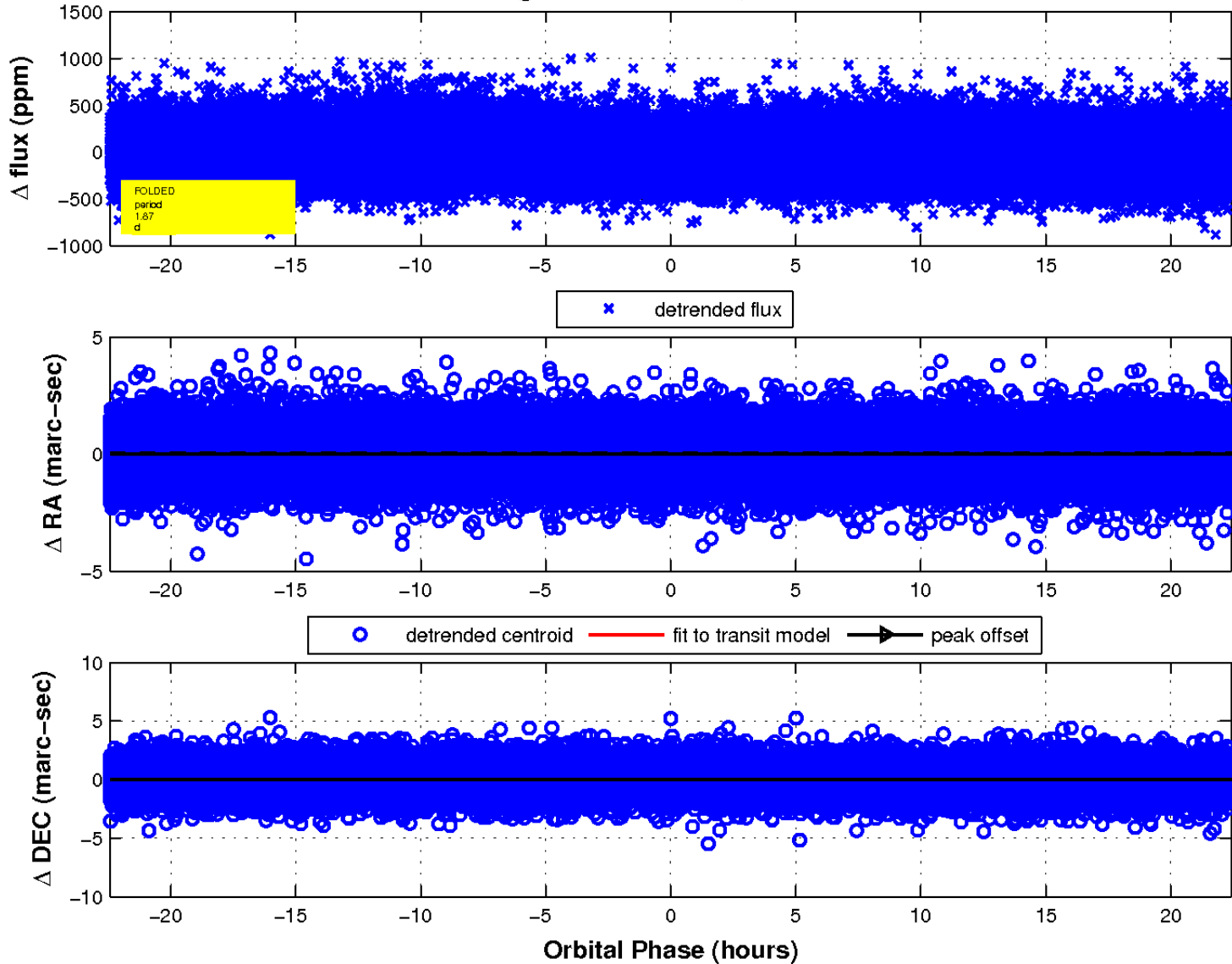
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

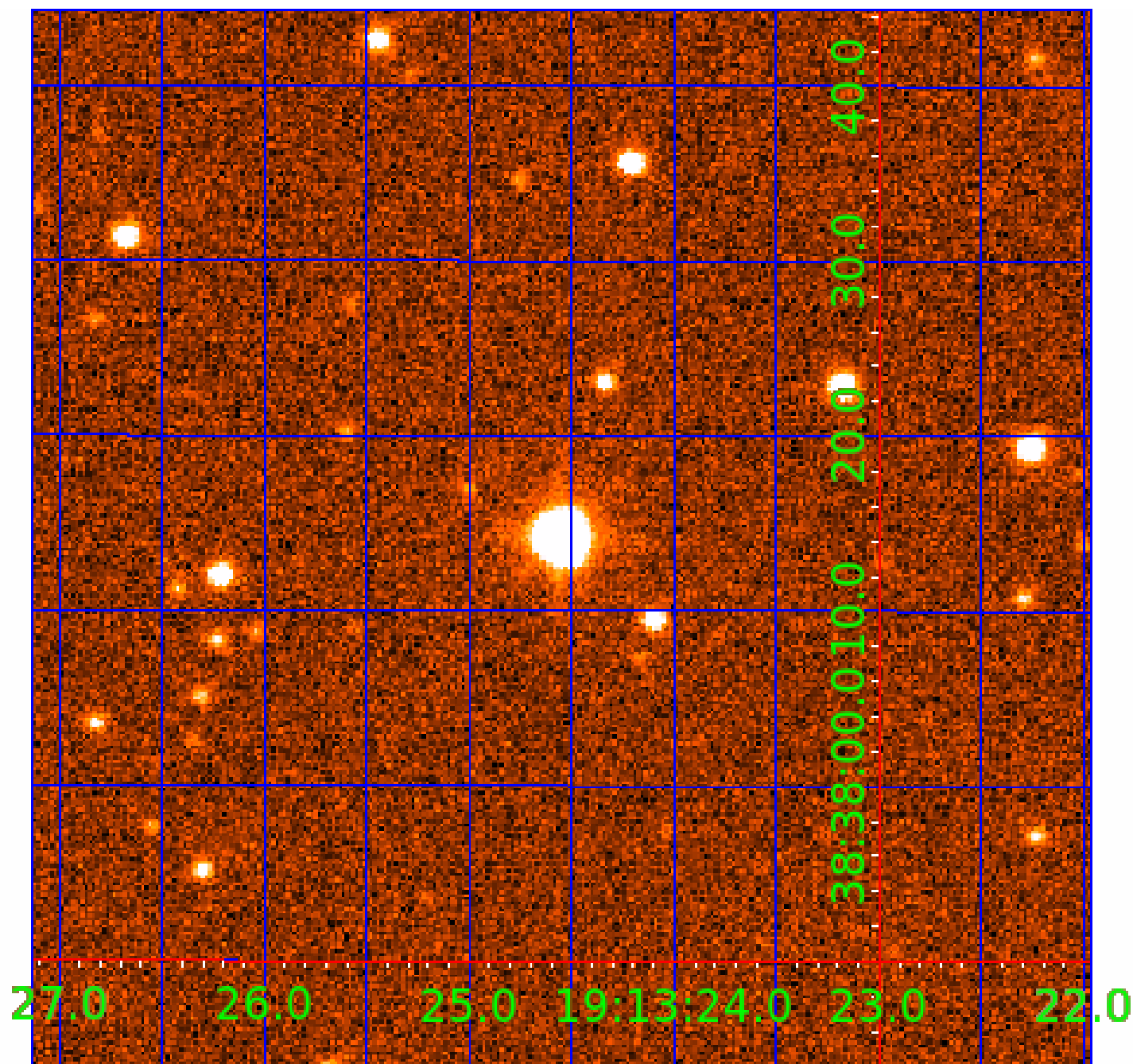


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 003534192

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})
003534192-01	OBS	No	1.869257	131.781275	23.7	8.006	8.1	7.4	3.67	6680	1.88	18605.06
003534192-02	OBS	No	81.461805	206.414919	244.9	3.091	7.4	8.2	3.67	6680	6.34	121.32
003534192-03	OBS	No	162.873111	276.473371	327.4	2.316	7.1	7.3	3.67	6680	7.06	48.16

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003534192-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV
003534192-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
003534192-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT

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

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

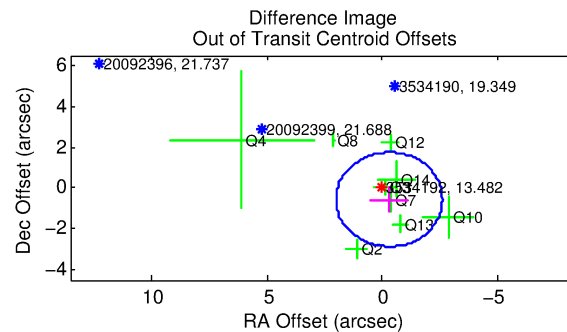
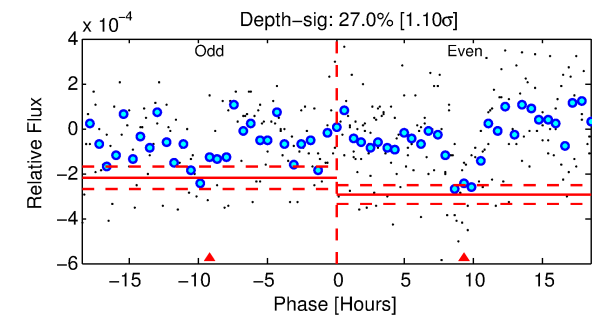
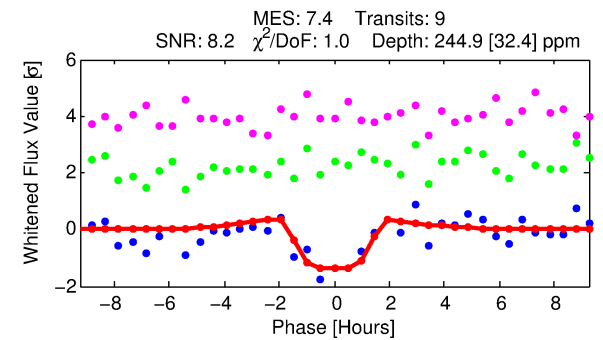
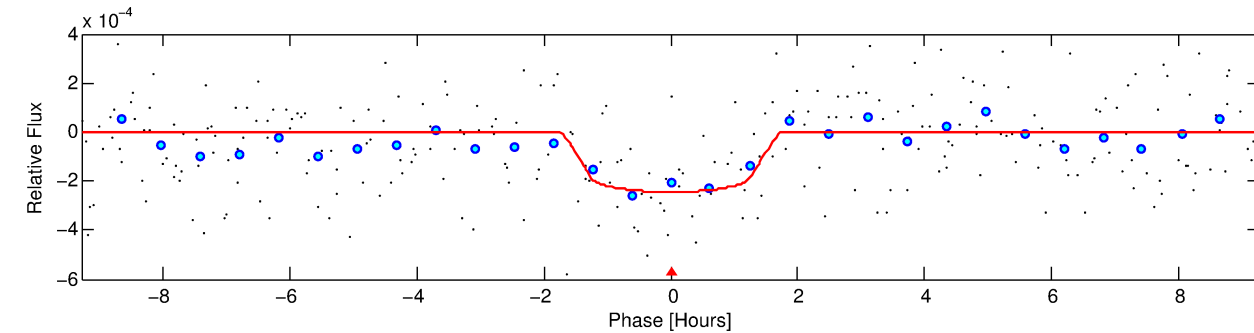
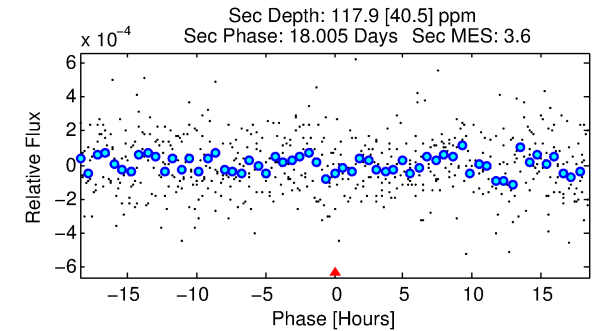
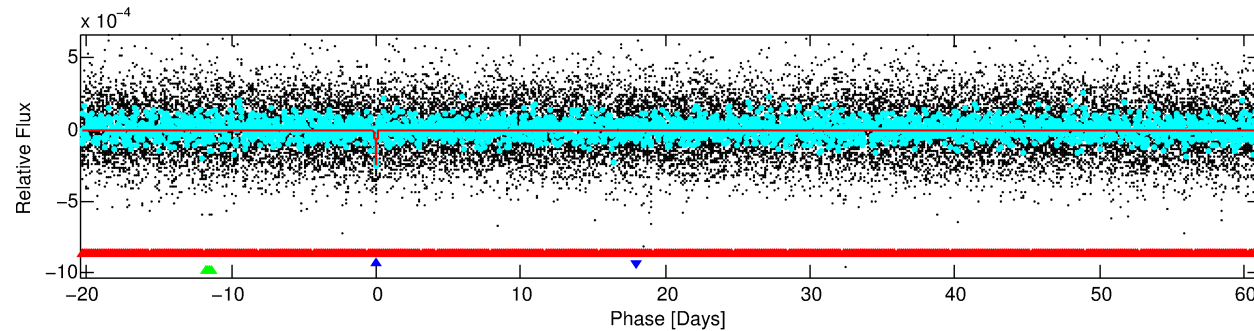
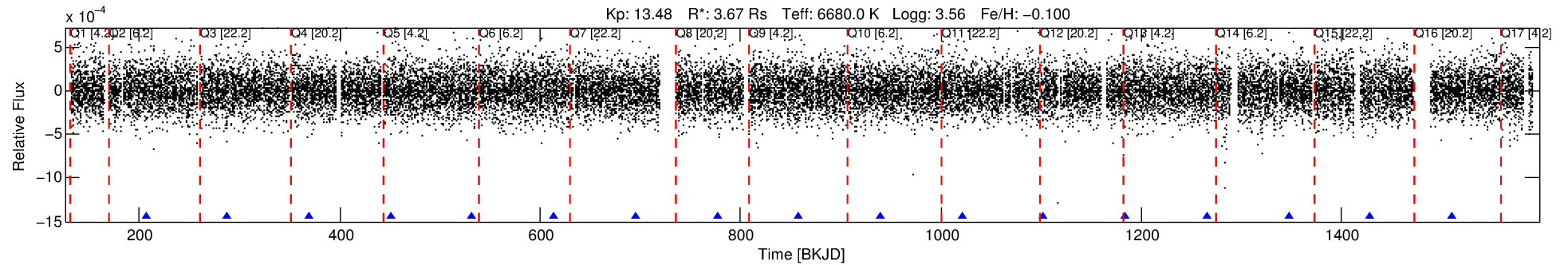
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003534192-02

No Significant Match Found

DV One-Page Summary

KIC: 3534192 Candidate: 2 of 3 Period: 81.462 d



DV Fit Results:

Period = 81.46181 [0.00096] d
Epoch = 206.4149 [0.0083] BKJD
Rp/R* = 0.0158 [0.0178]
a/R* = 126.37 [823.10]
b = 0.80 [2.98]
Seff = 121.32 [66.75]
Teq = 846 [116] K
Rp = 6.34 [7.49] Re
a = 0.4452 [0.1519] AU
Ag = 319.52 [746.30] [0.43σ]
Teffp = 5532 [3148] K [1.49σ]

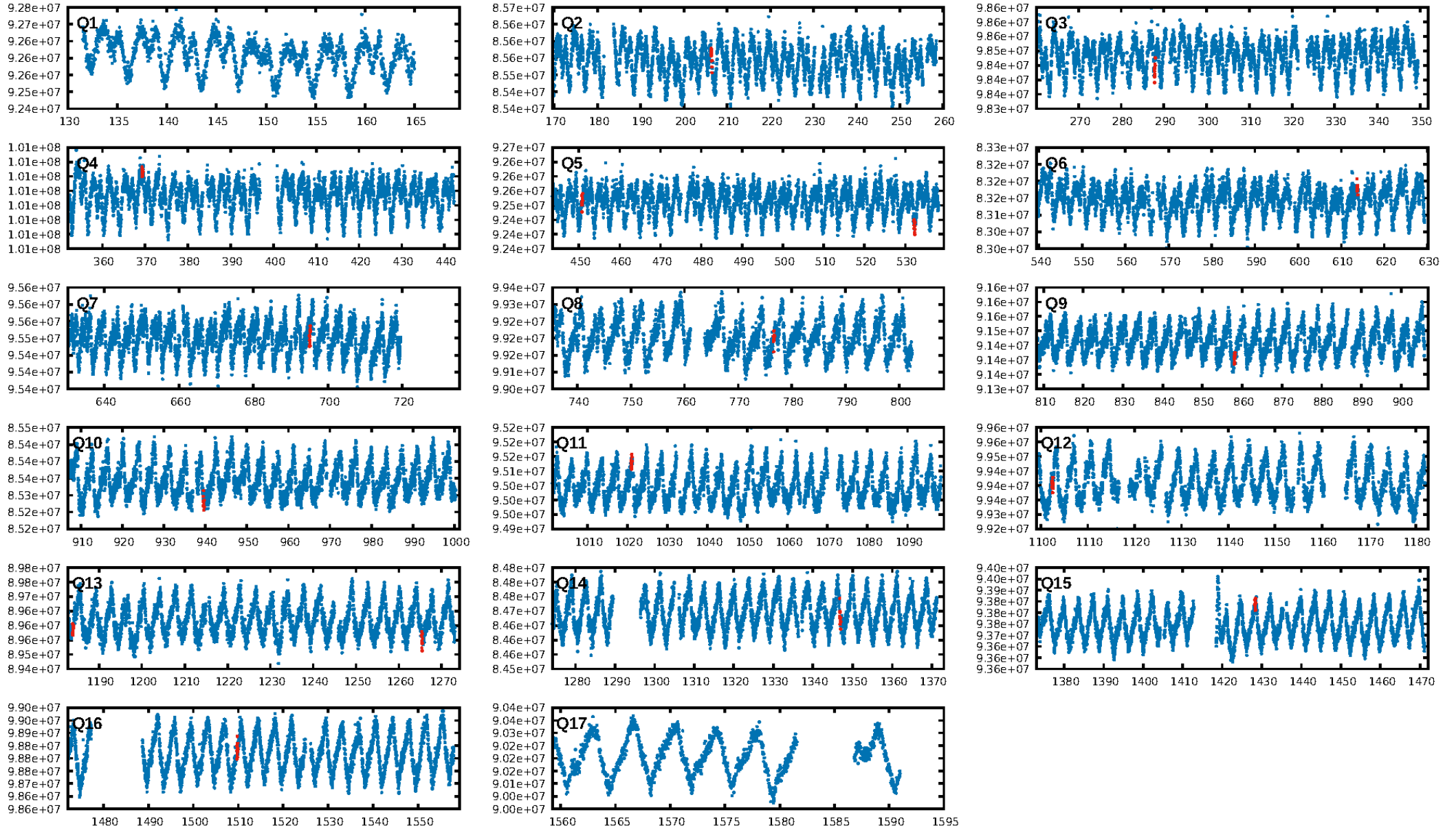
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [222.58σ]
LongPeriod-sig: 100.0% [505.91σ]
ModelChiSquare2-sig: 70.2%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 5.15e-10
RollingBand-fgt: 1.00 [9/9]
GhostDiagnostic-chr: 0.9479
Centroid-sig: 63.0%
Centroid-so: 0.601 arcsec [0.61σ]
OotOffset-rm: 0.630 arcsec [0.82σ]
OotOffset-st: 3/2/3/1 [9]
KicOffset-rm: 0.568 arcsec [0.73σ]
KicOffset-st: 3/2/3/1 [9]
DiffImageQuality-fgm: 0.56 [5/9]
DiffImageOverlap-fno: 0.57 [8/14]

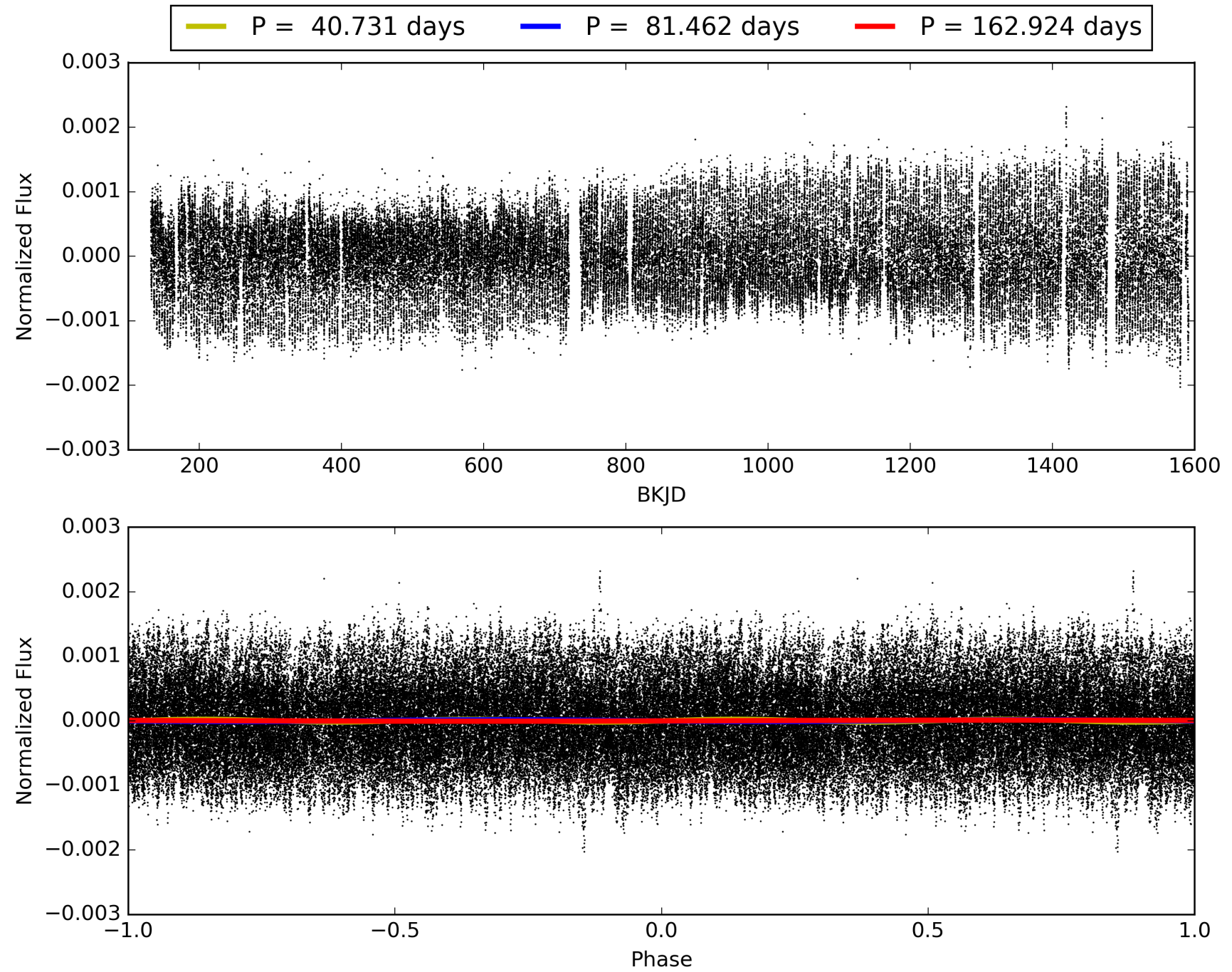
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 003534192-02, PDC Light Curves

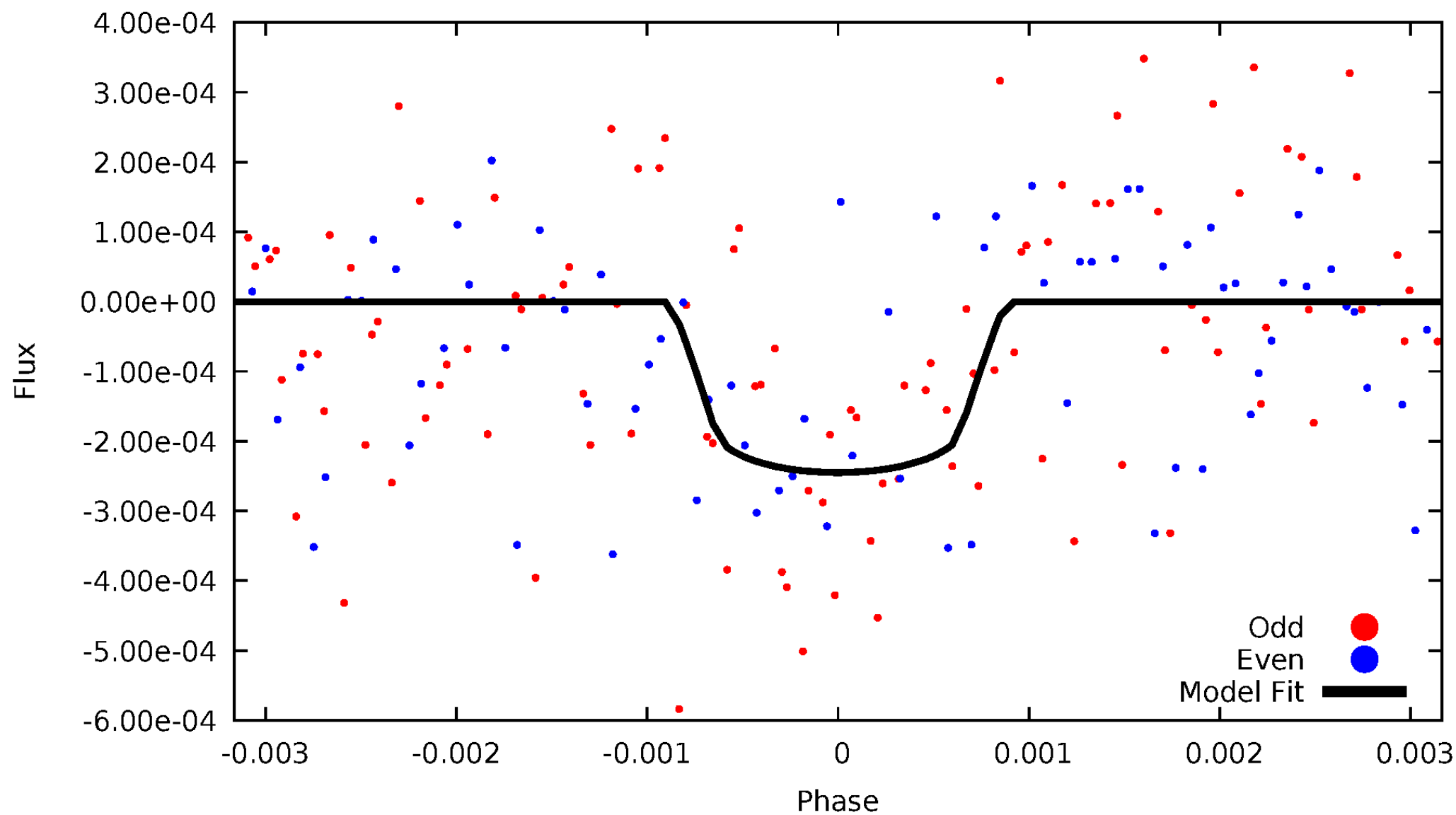


TCE 003534192-02



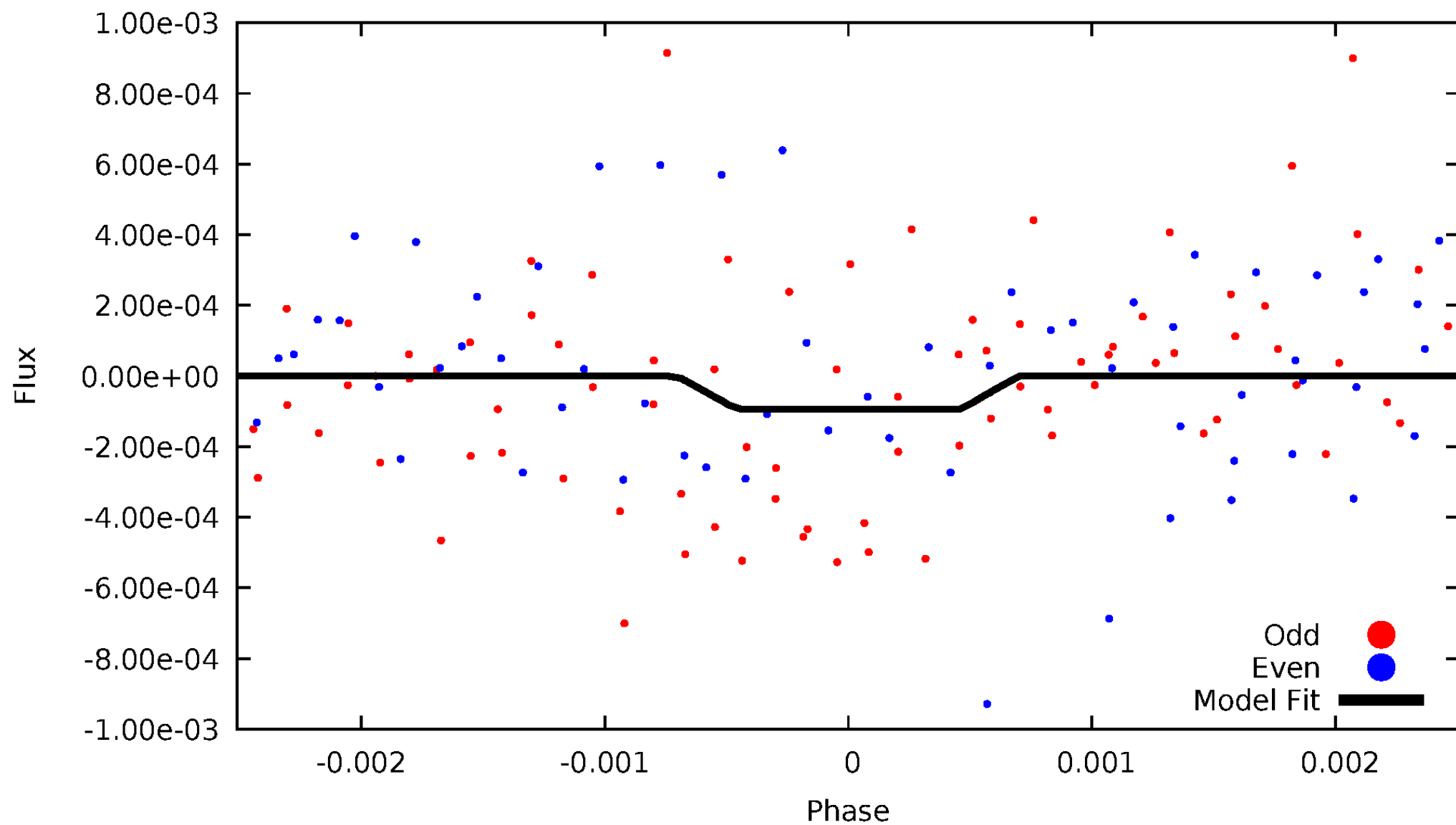
DV Odd/Even

TCE 003534192-02



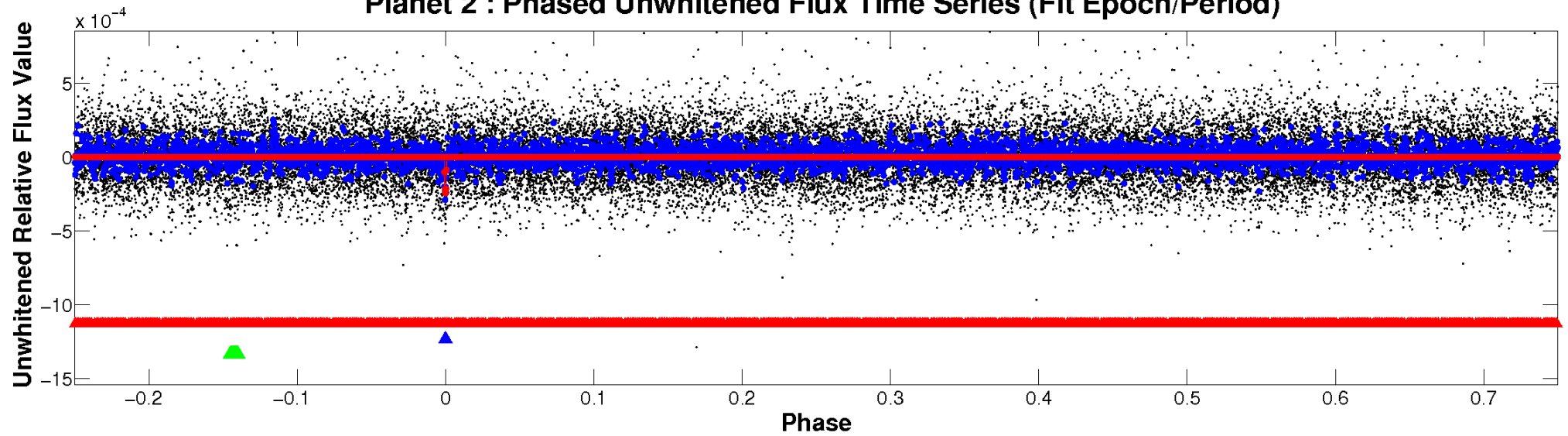
ALT Odd/Even

TCE 003534192-02

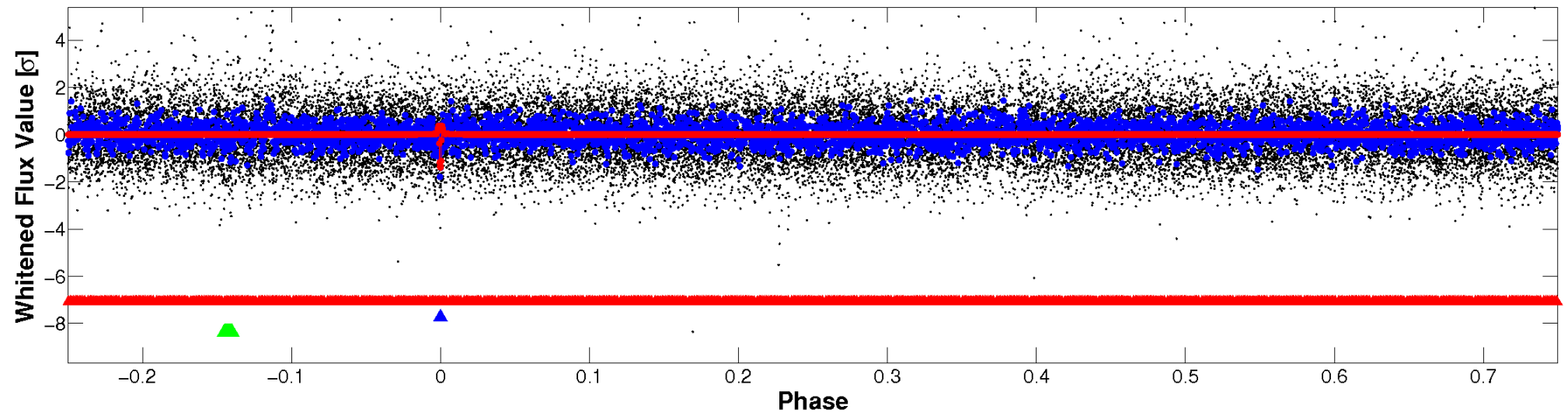


Non-Whitened Vs. Whitened Light Curve

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

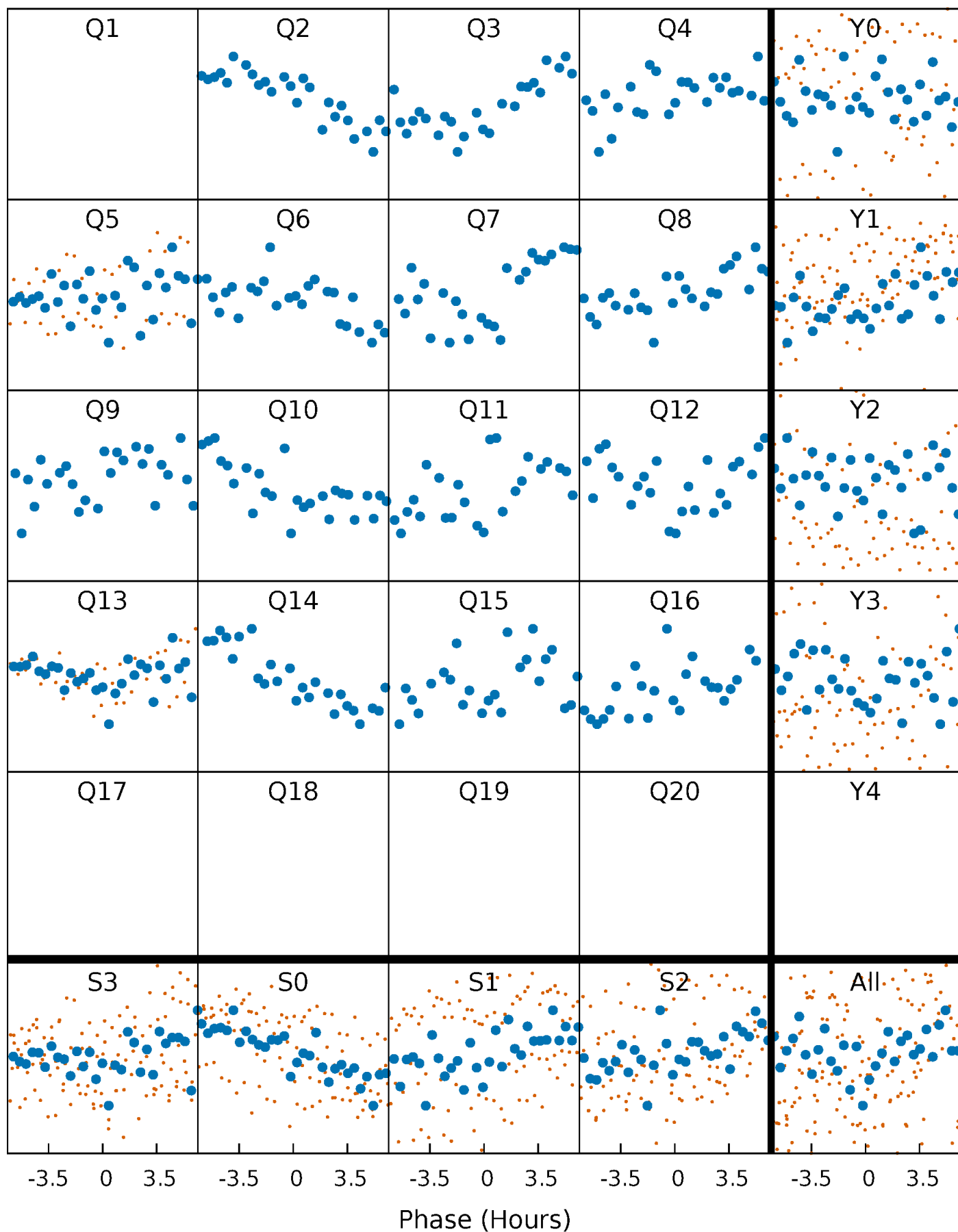


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



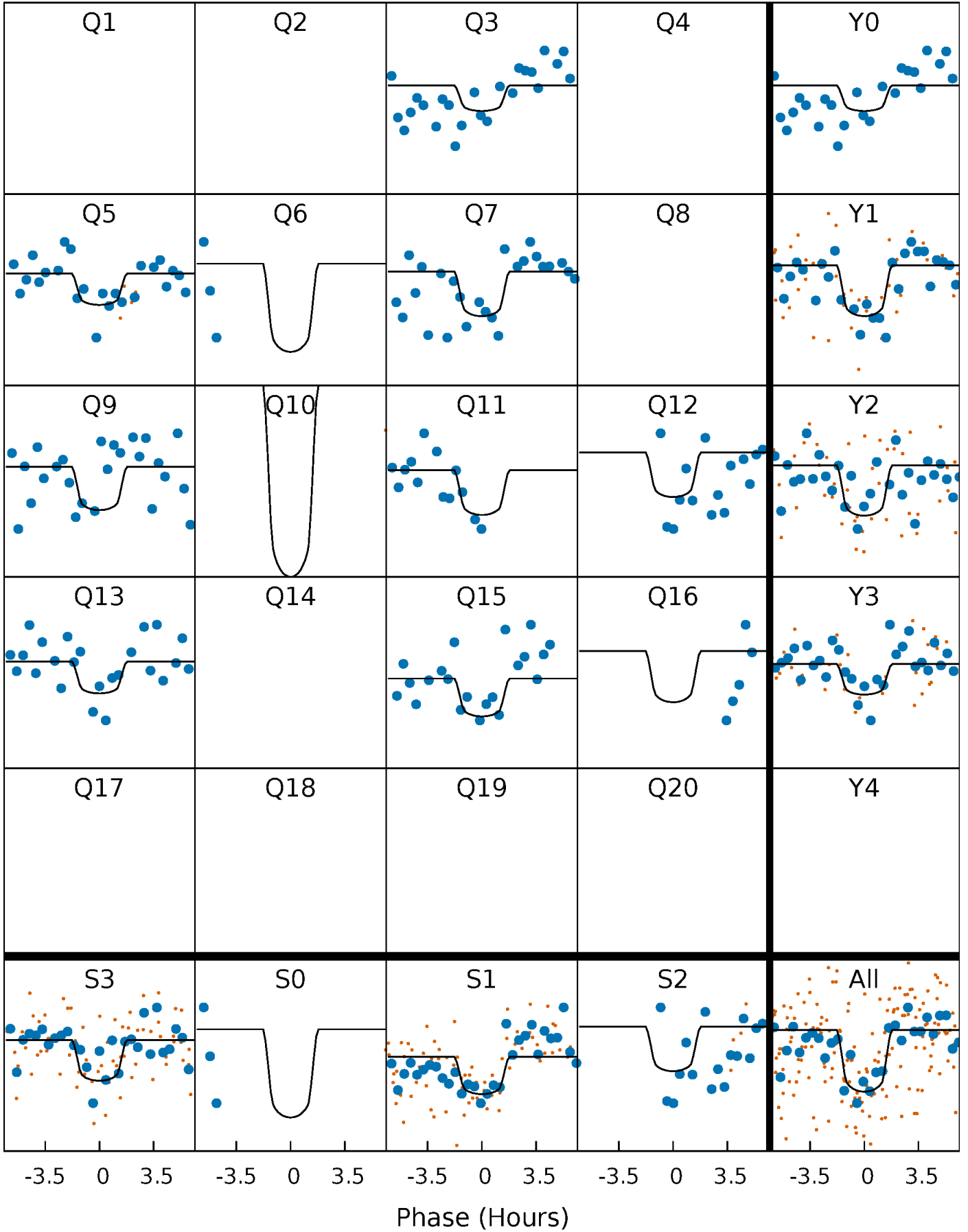
PDC Quarter-Phased Transit Curves

TCE 003534192-02 P= 81.461805 Days $T_0=206.414919$ (BKJD)



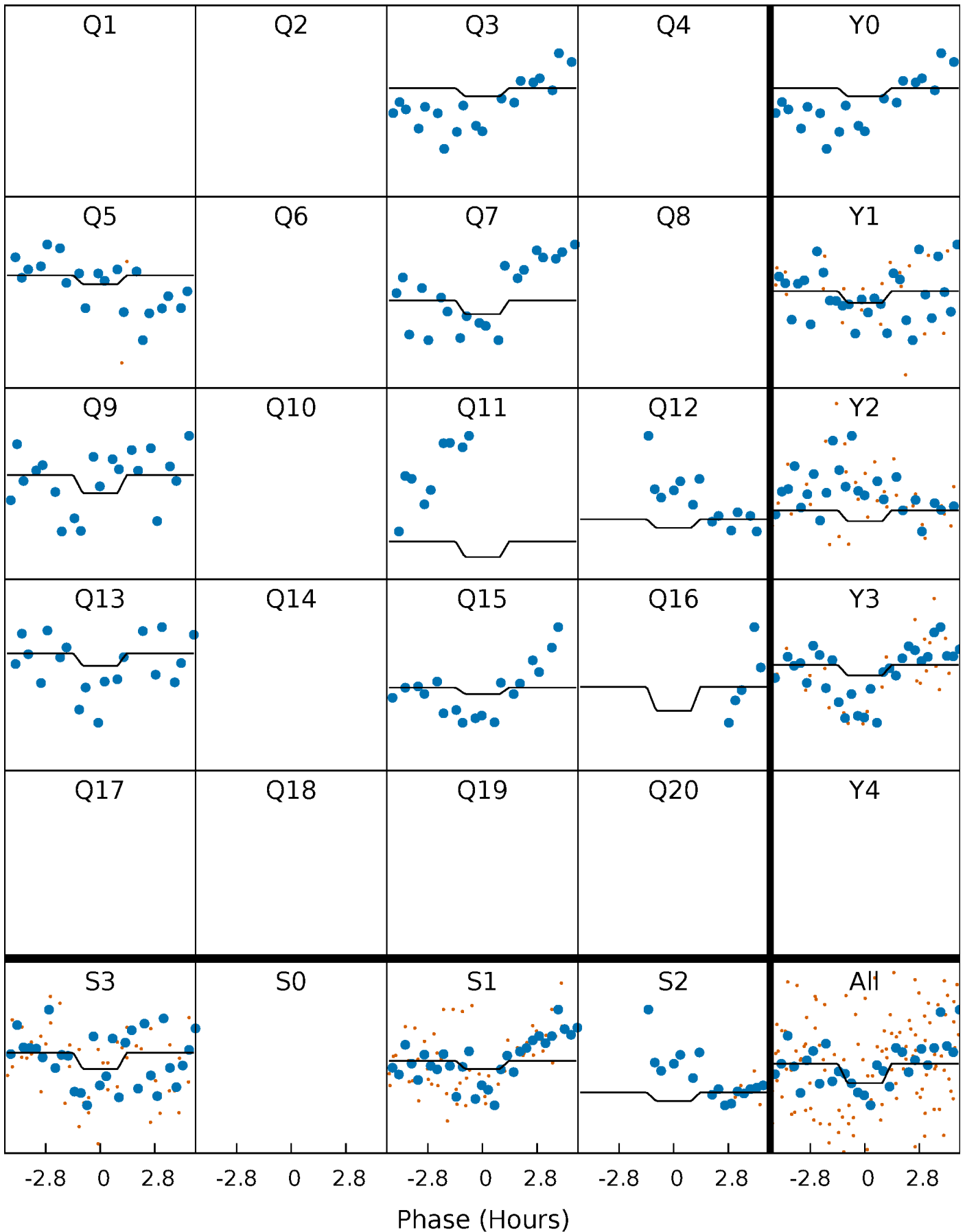
DV Quarter-Phased Transit Curves

TCE 003534192-02 P= 81.461805 Days $T_0=206.414919$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

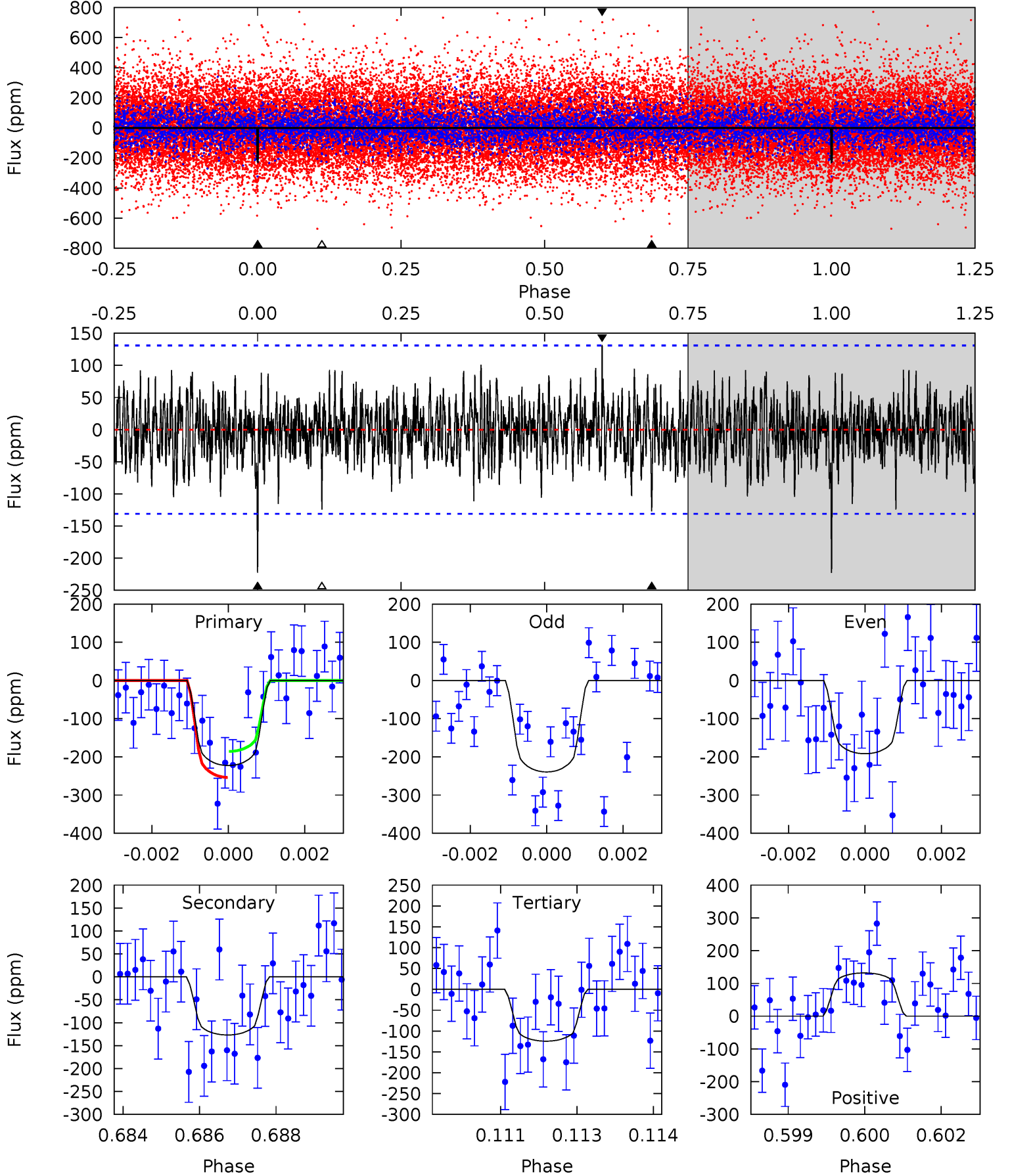
TCE 003534192-02 $P = 81.462935$ Days $T_0 = 206.420917$ (BKJD)



DV Model-Shift Uniqueness Test

003534192-02, P = 81.461805 Days, E = 124.953114 Days

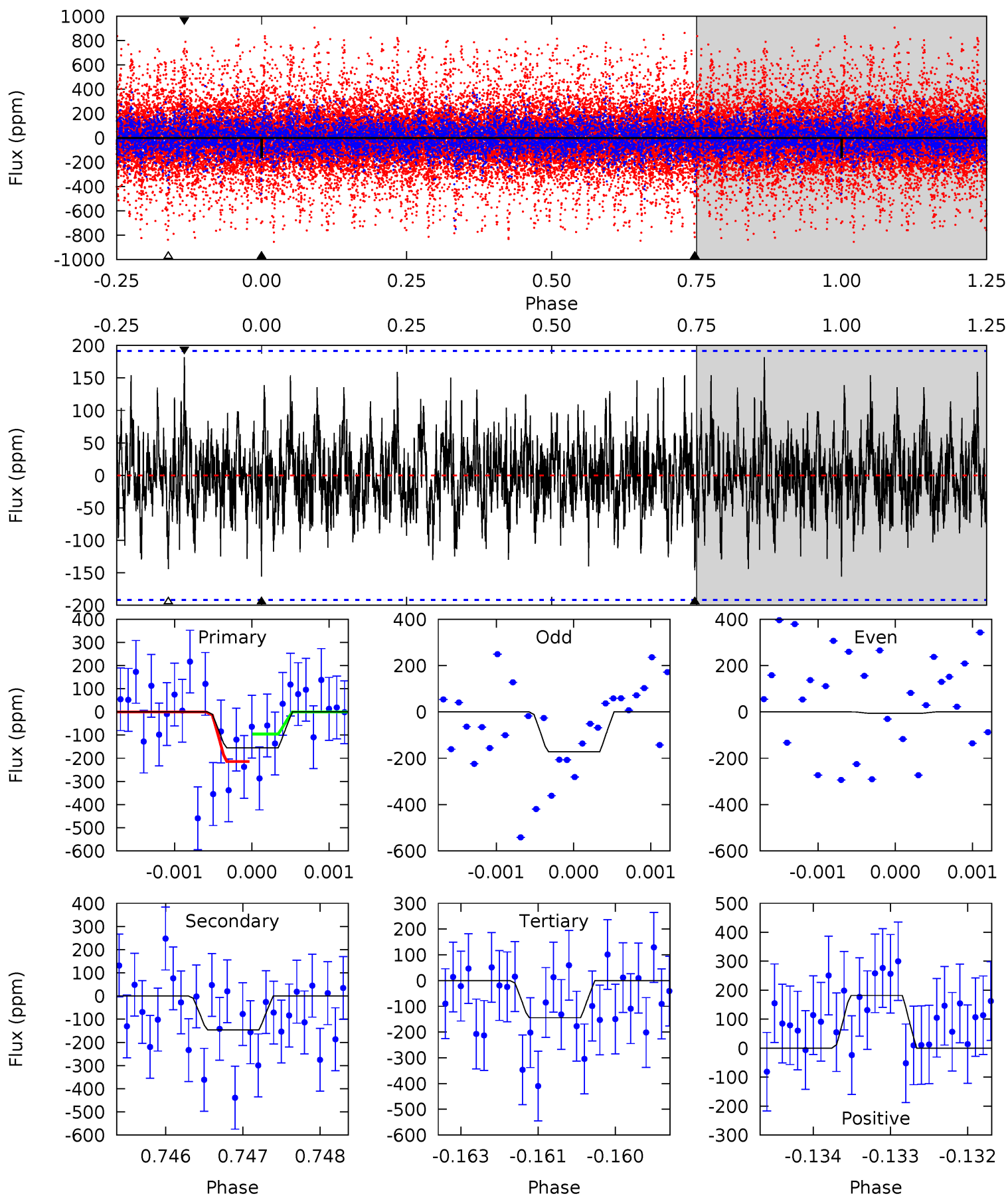
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.11	5.19	5.09	5.40	5.36	3.14	1.46	4.03	3.72	0.10	-0.21	0.95	0.89	0.37	1.40



Alt Model-Shift Uniqueness Test

003534192-02, P = 81.462935 Days, E = 124.957982 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.39	4.12	4.06	5.12	5.40	3.21	1.31	0.33	-0.74	0.06	-1.01	2.21	0.45	0.54	1.70



Stellar Parameters For KIC 003534192

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6680^{+180}_{-200}	$3.557^{+0.312}_{-0.078}$	$-0.100^{+0.300}_{-0.250}$	$3.671^{+0.335}_{-1.338}$	$1.775^{+0.160}_{-0.347}$	$0.051^{+0.116}_{-0.010}$
	+3%/-3%	+9%/-2%	+300%/-250%	+9%/-36%	+9%/-20%	+230%/-19%
Source	PHO1	FLK73	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 003534192-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-127 ± 24	$7.44^{+6.50}_{-4.77}$	1168^{+57}_{-93}	5083^{+3507}_{-1069}	249^{+1644}_{-182}
Alt.	-146 ± 35	$6.17^{+5.68}_{-4.12}$	1167^{+57}_{-98}	5682^{+5562}_{-1319}	400^{+3356}_{-287}

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 $A_{obs} \gg 1.0$

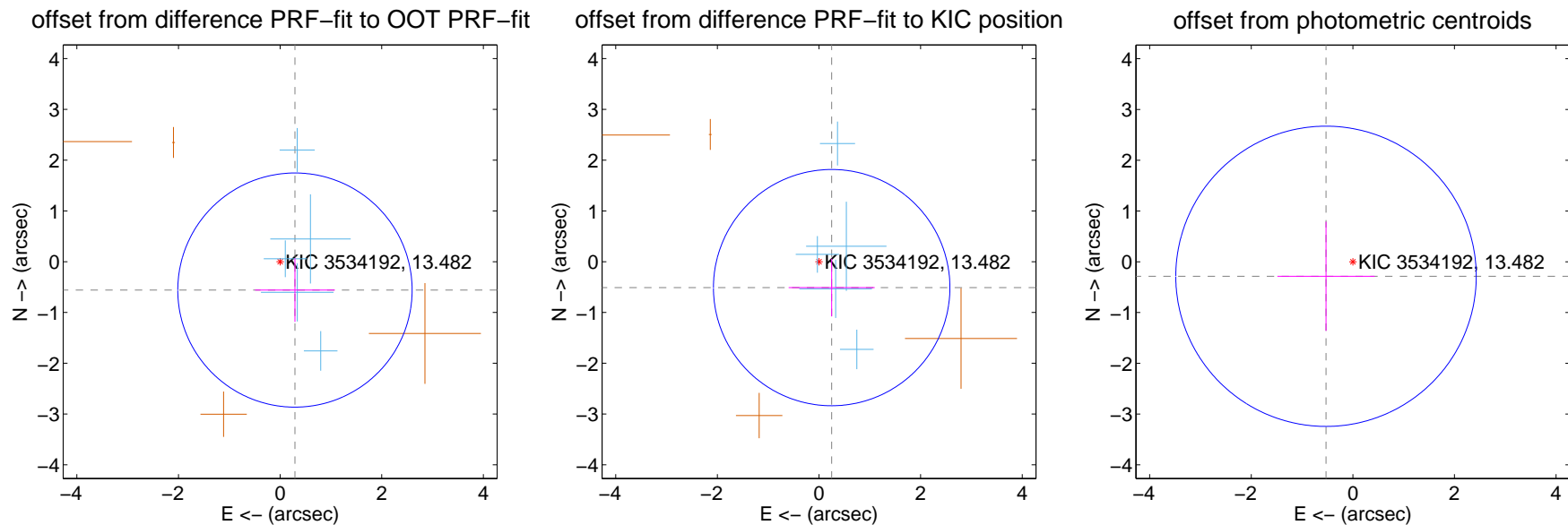
DV Centroid Data

Supplemental centroid analysis for 003534192-02. Kepler magnitude: 13.48. Transit SNR 8.19

There are 5 quarters with good PRF difference image offsets

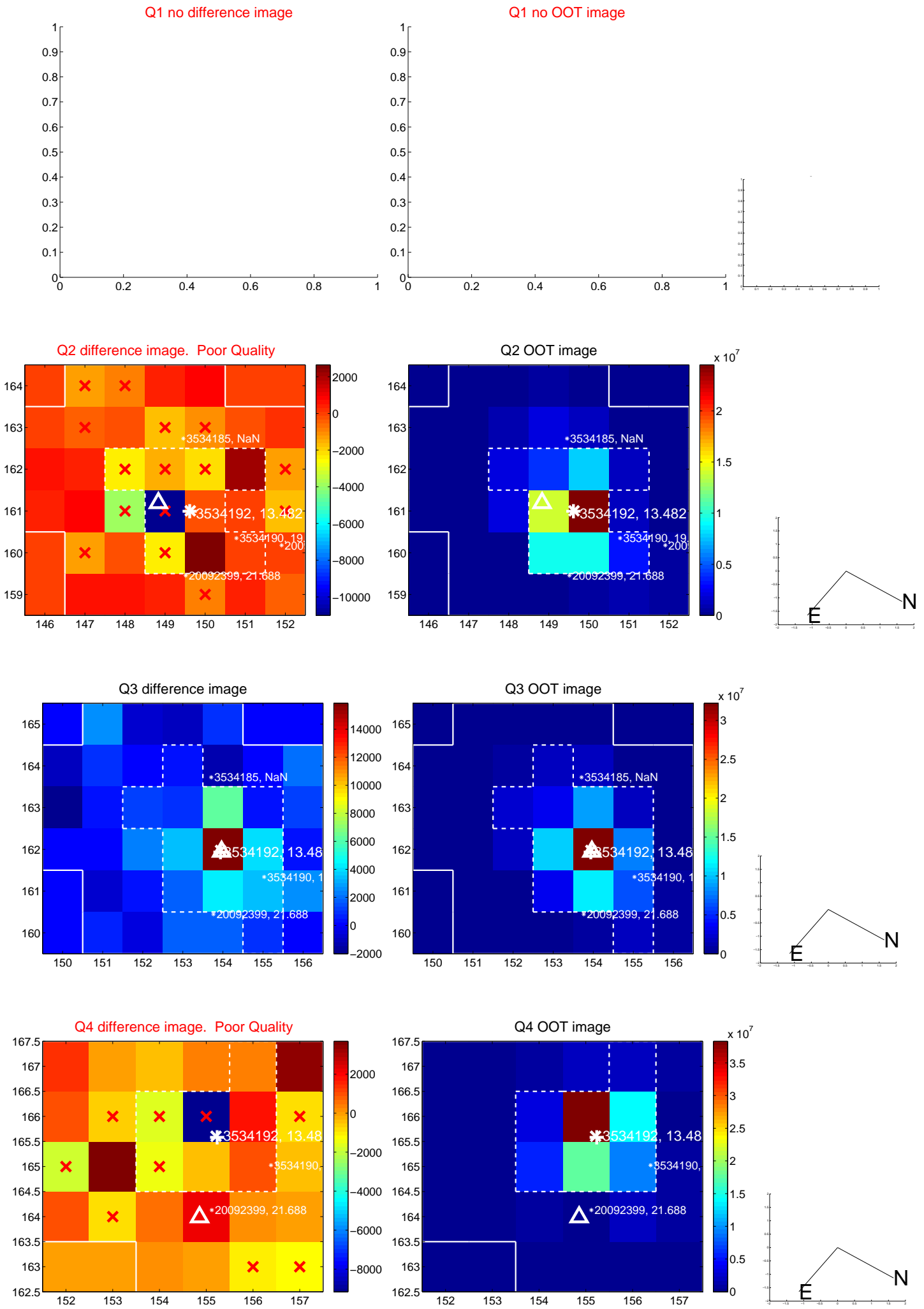
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.630 ± 0.769	0.82	-0.292 ± 0.785	-0.559 ± 0.626
PRF-fit source offset from KIC position	0.568 ± 0.776	0.73	-0.250 ± 0.847	-0.511 ± 0.567
photometric centroid source offset	0.60 ± 0.99	0.61	0.53 ± 0.96	-0.29 ± 1.07

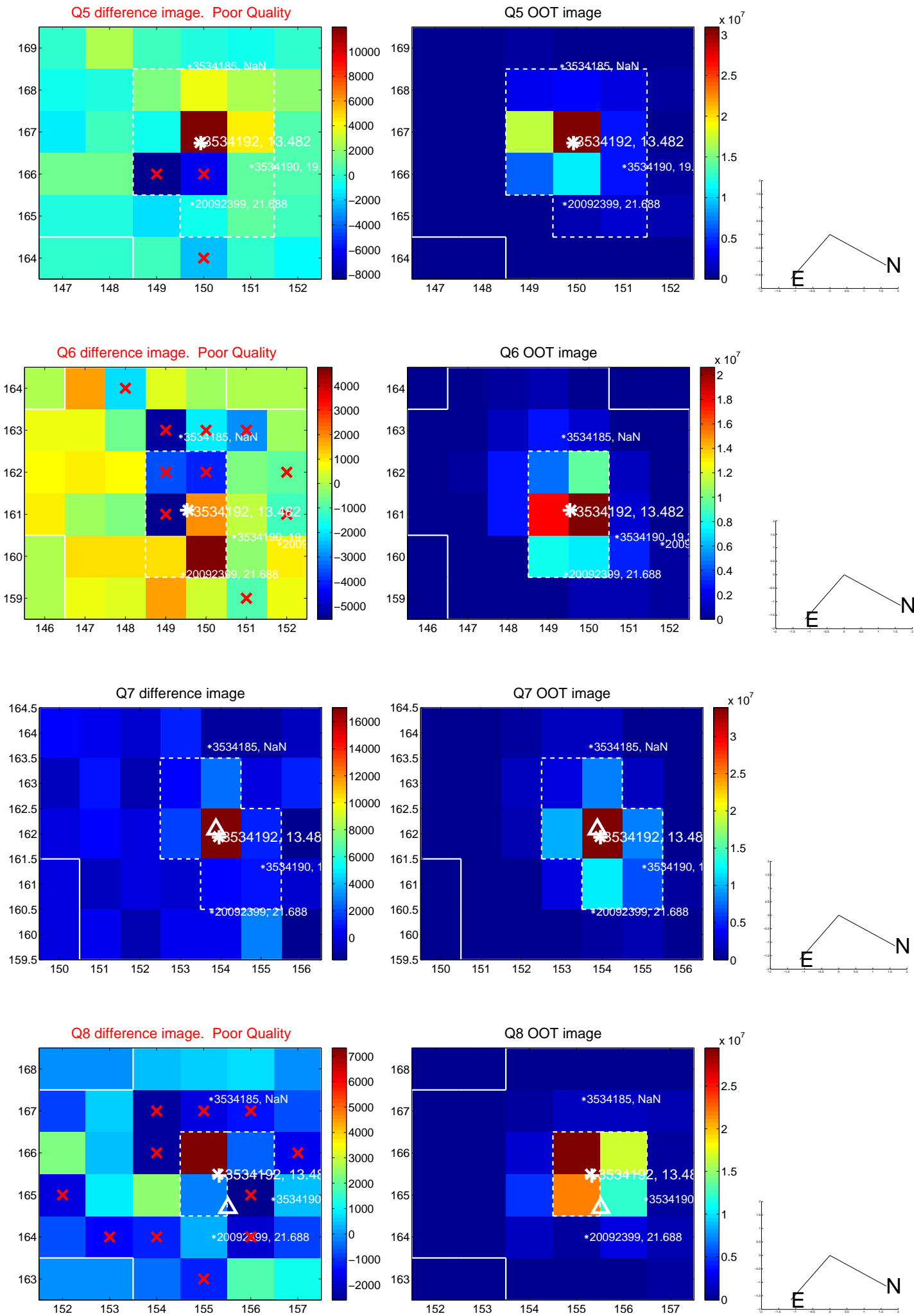


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

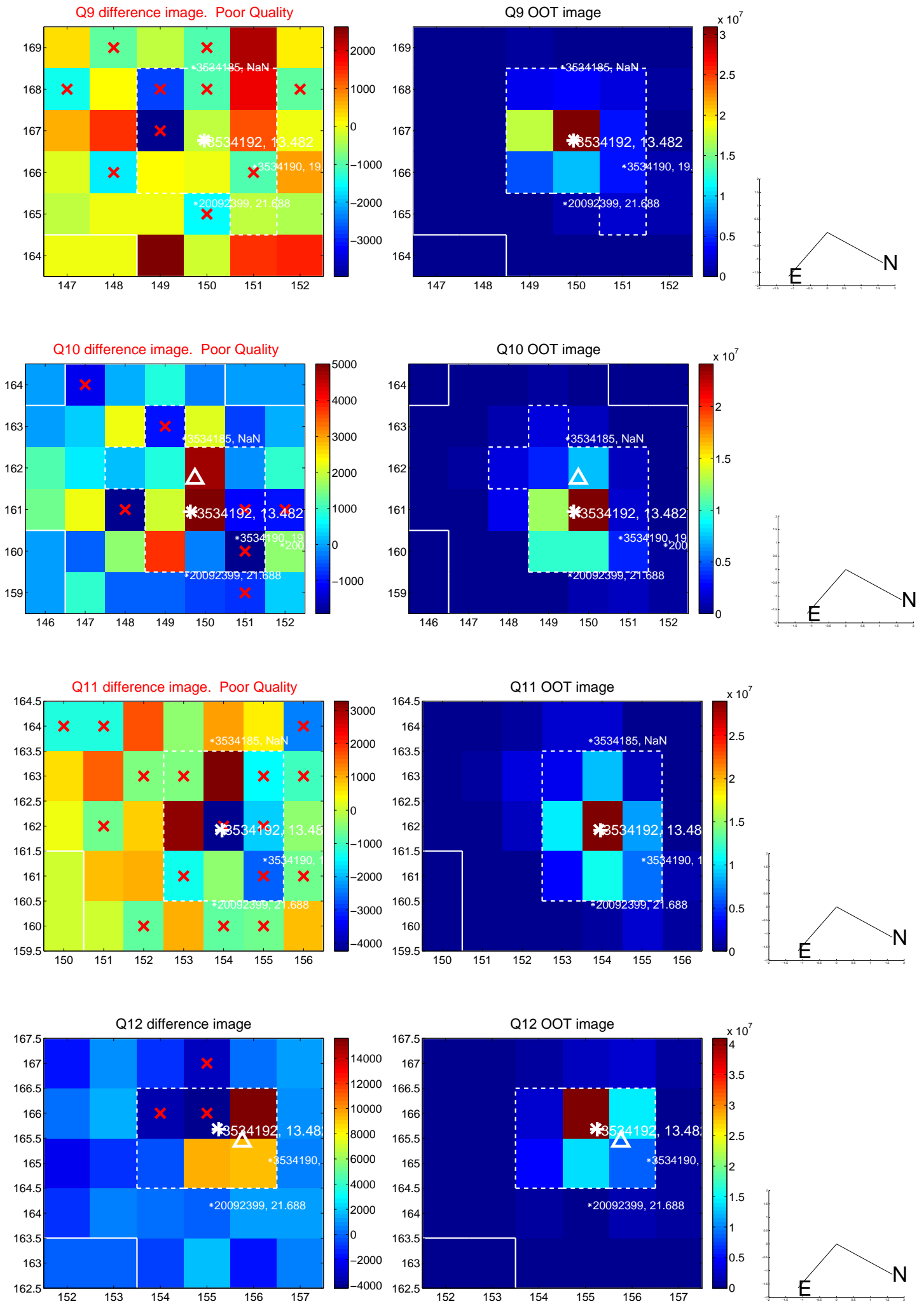
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



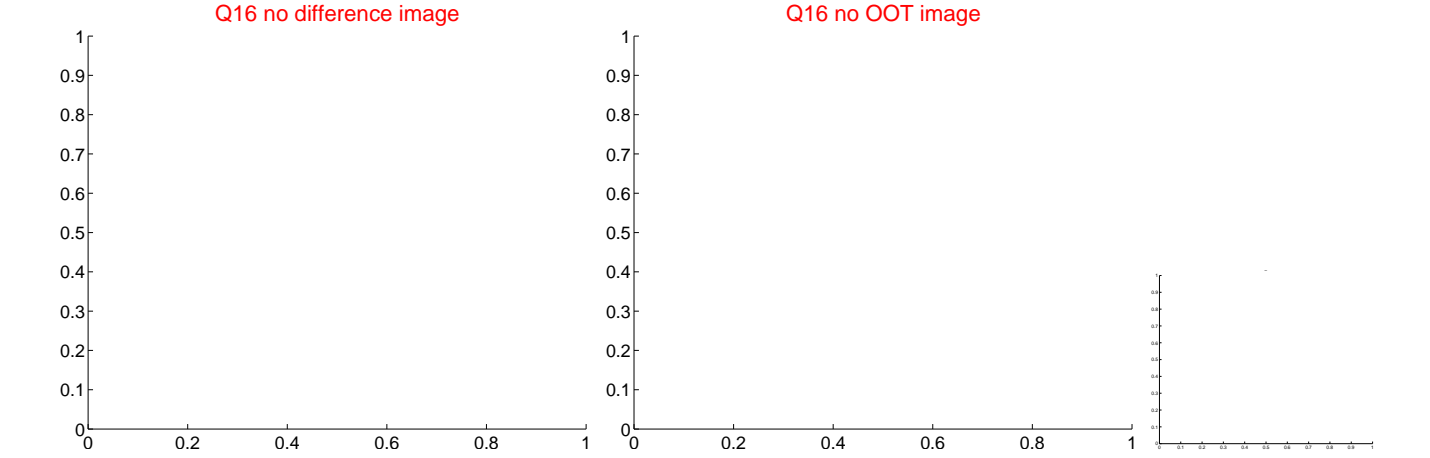
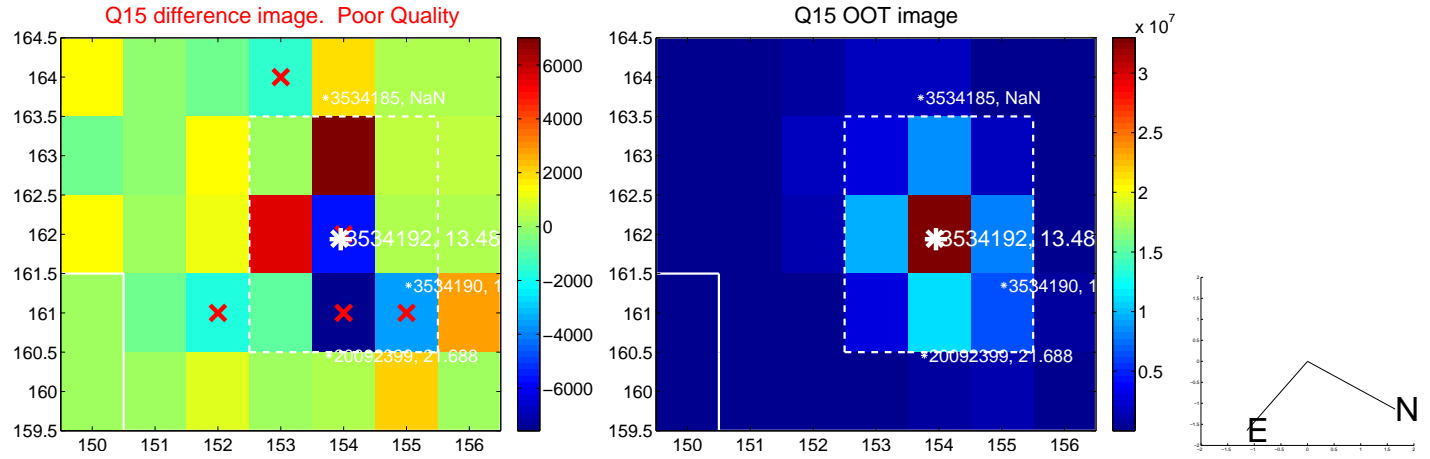
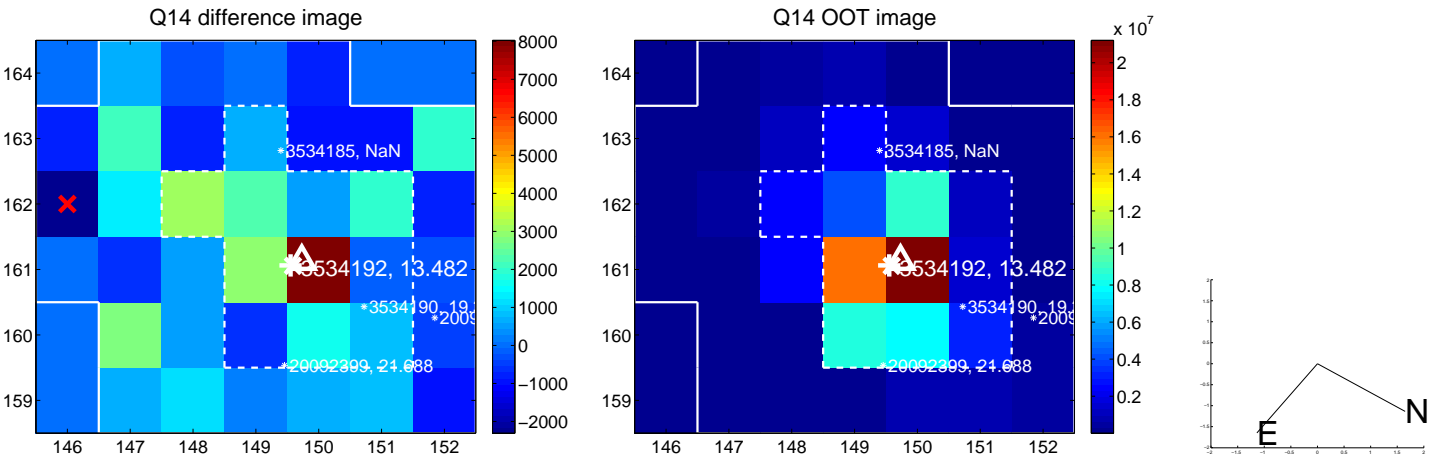
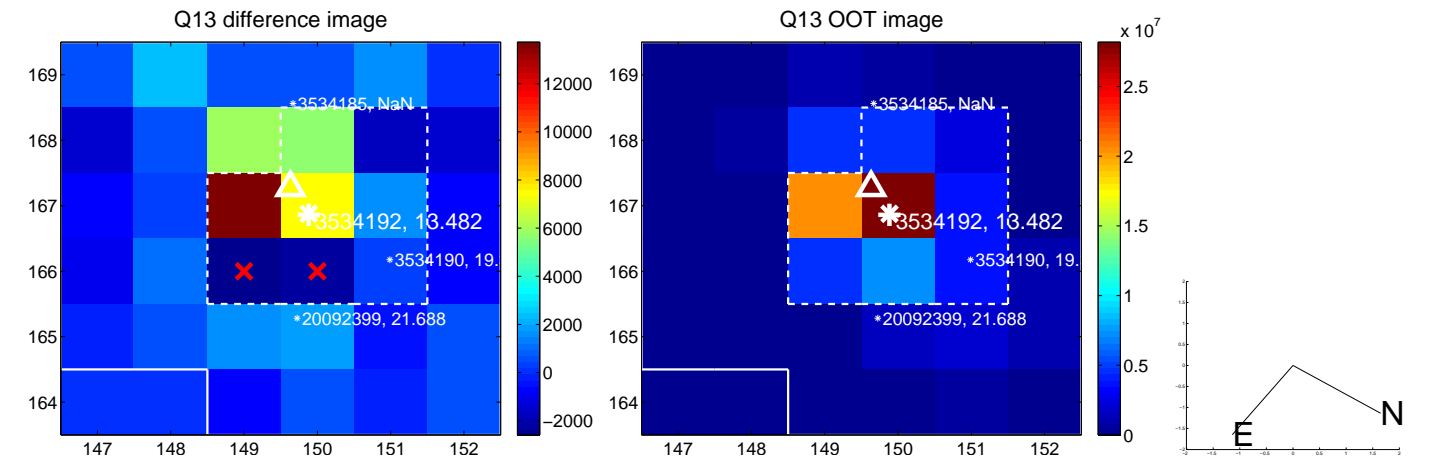
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



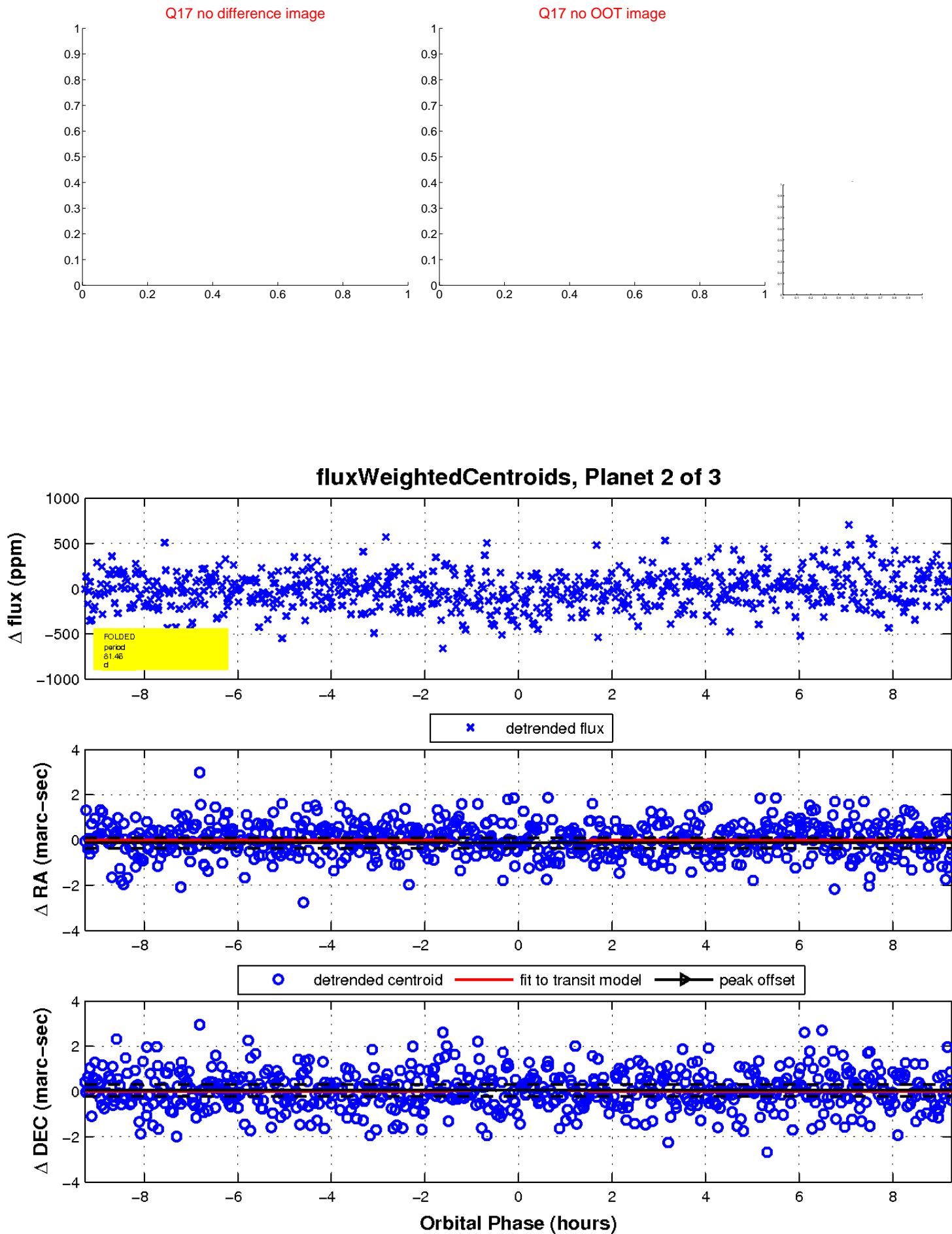
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

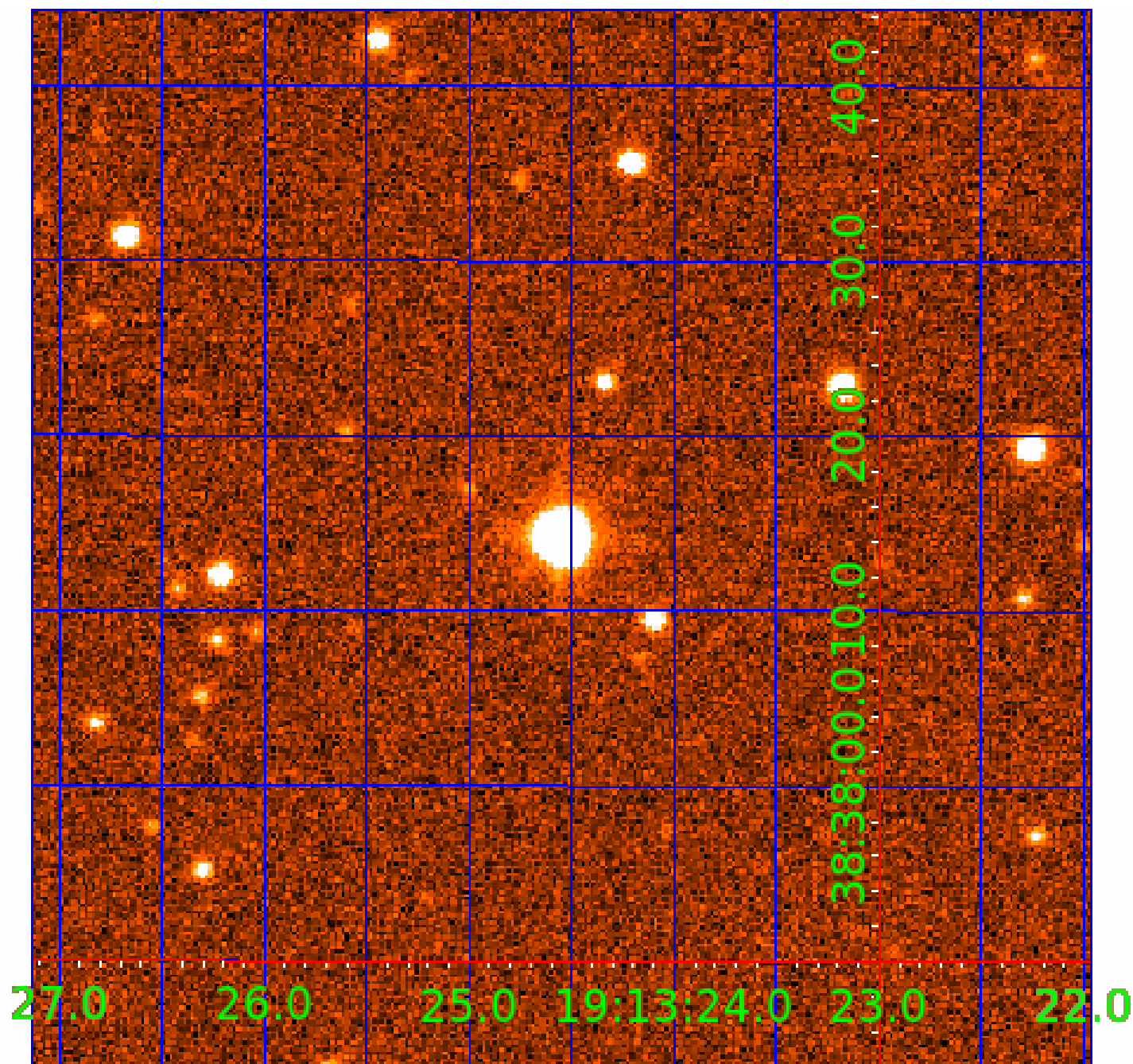


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003534192

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})
003534192-01	OBS	No	1.869257	131.781275	23.7	8.006	8.1	7.4	3.67	6680	1.88	18605.06
003534192-02	OBS	No	81.461805	206.414919	244.9	3.091	7.4	8.2	3.67	6680	6.34	121.32
003534192-03	OBS	No	162.873111	276.473371	327.4	2.316	7.1	7.3	3.67	6680	7.06	48.16

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003534192-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV
003534192-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
003534192-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT

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

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

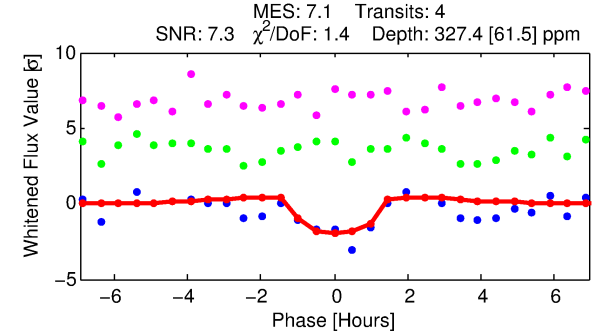
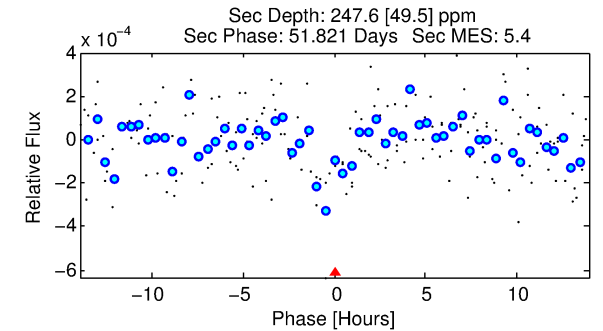
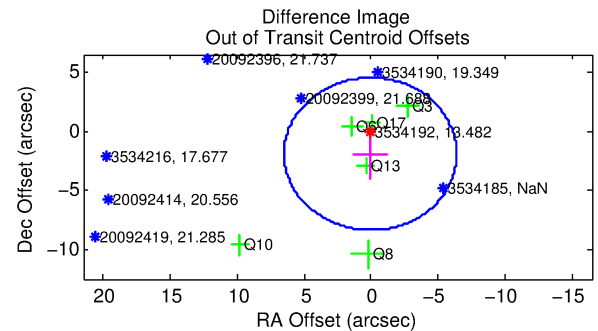
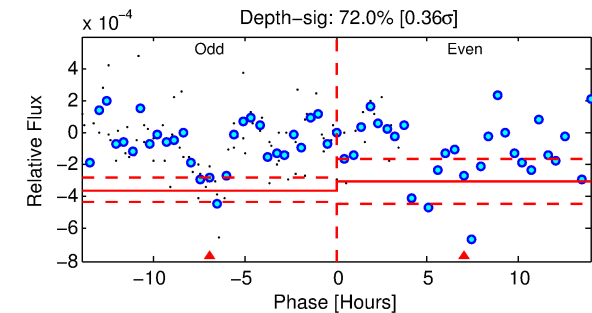
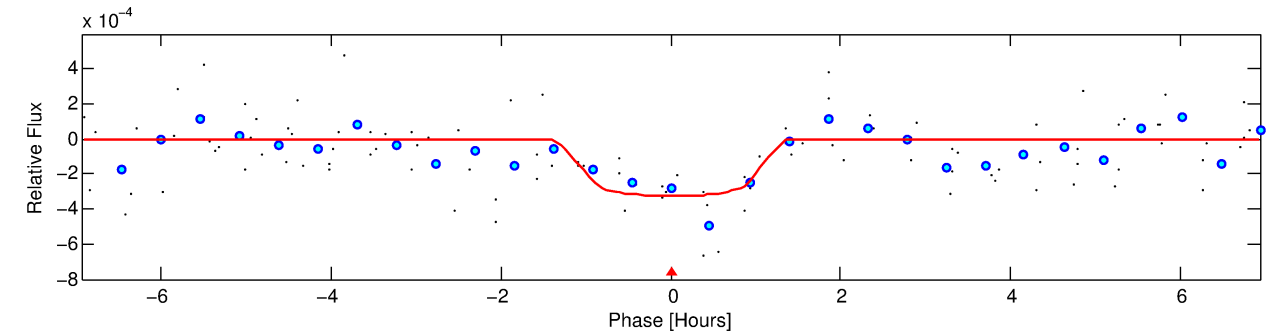
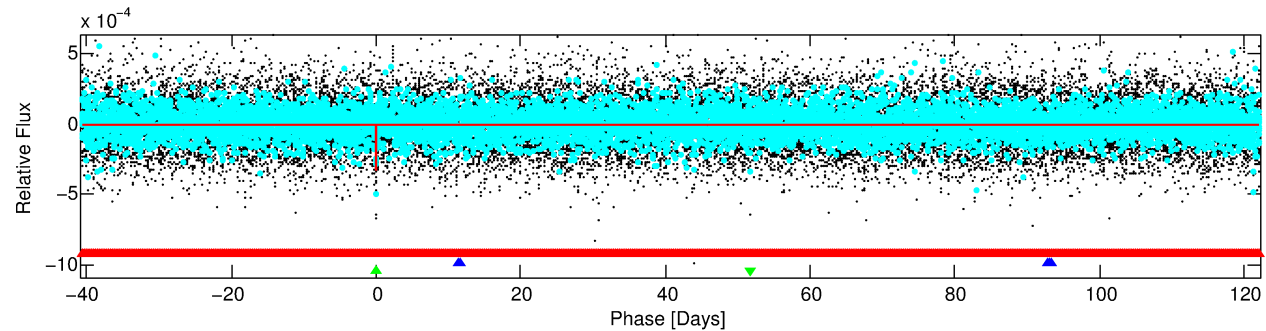
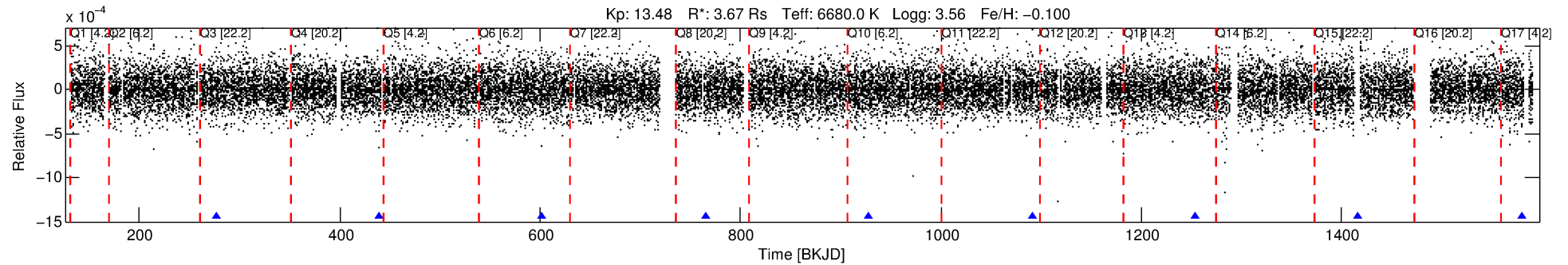
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003534192-03

No Significant Match Found

DV One-Page Summary

KIC: 3534192 Candidate: 3 of 3 Period: 162.873 d



DV Fit Results:

Period = 162.87311 [0.00123] d
Epoch = 276.4734 [0.0066] BKJD
Rp/R* = 0.0176 [0.0257]
a/R* = 416.63 [3363.50]
b = 0.66 [7.00]
Seff = 48.16 [26.50]
Teq = 672 [92] K
Rp = 7.06 [10.63] Re
a = 0.7065 [0.2410] AU
Ag = 1365.35 [4066.21] [0.34 σ]
Teffp = 6133 [4627] K [1.22 σ]

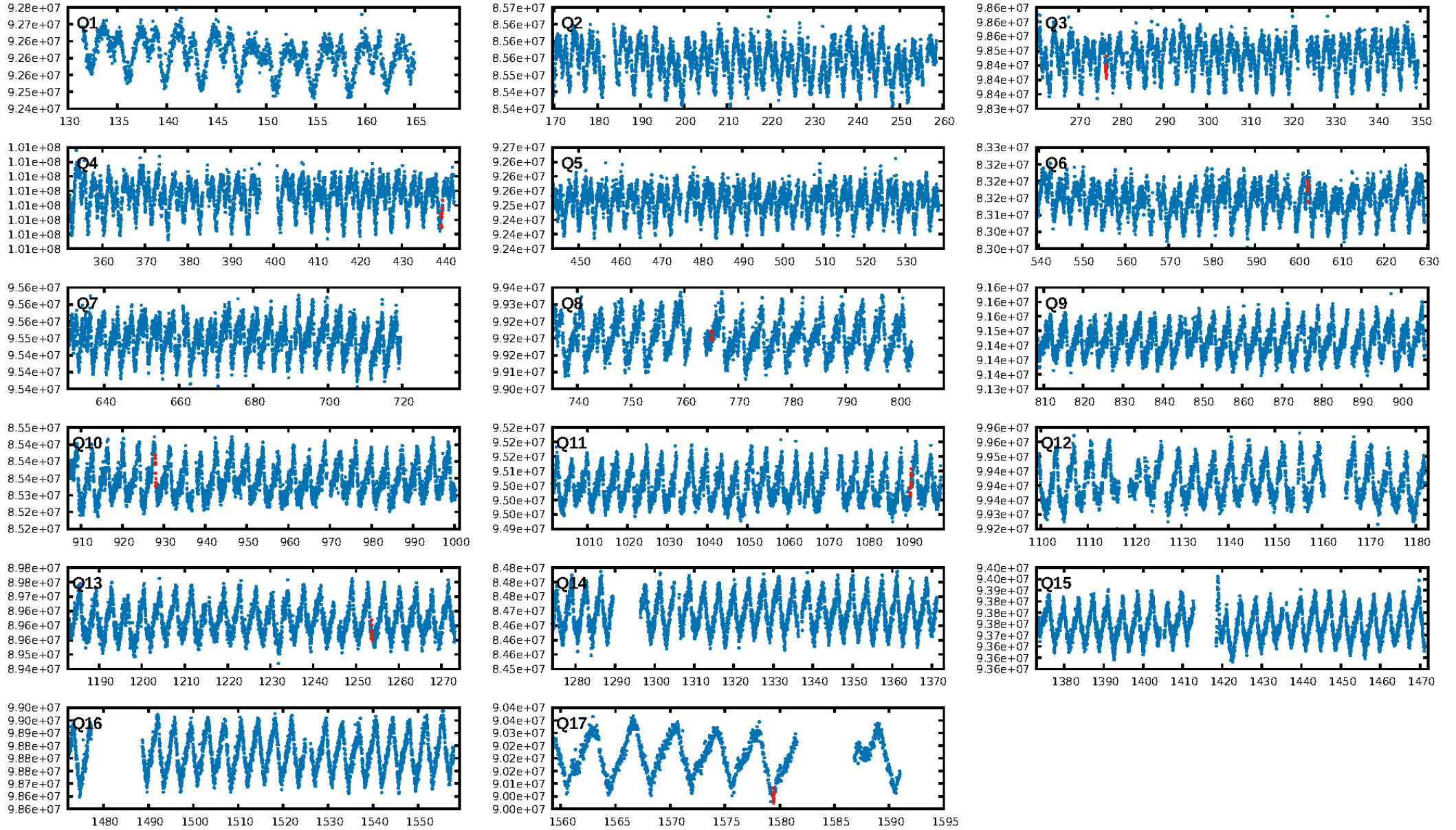
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [505.91 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 26.2%
ModelChiSquareGof-sig: 90.9%
Bootstrap-pfa: 5.60e-09
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.071
Centroid-sig: 40.9%
Centroid-so: 0.995 arcsec [0.86 σ]
OotOffset-rm: 1.927 arcsec [0.90 σ]
KicOffset-rm: 1.897 arcsec [0.91 σ]
OotOffset-st: 2/1/1/2 [6]
KicOffset-st: 2/1/1/2 [6]
DiffImageQuality-fgm: 0.17 [1/6]
DiffImageOverlap-fno: 0.50 [4/8]

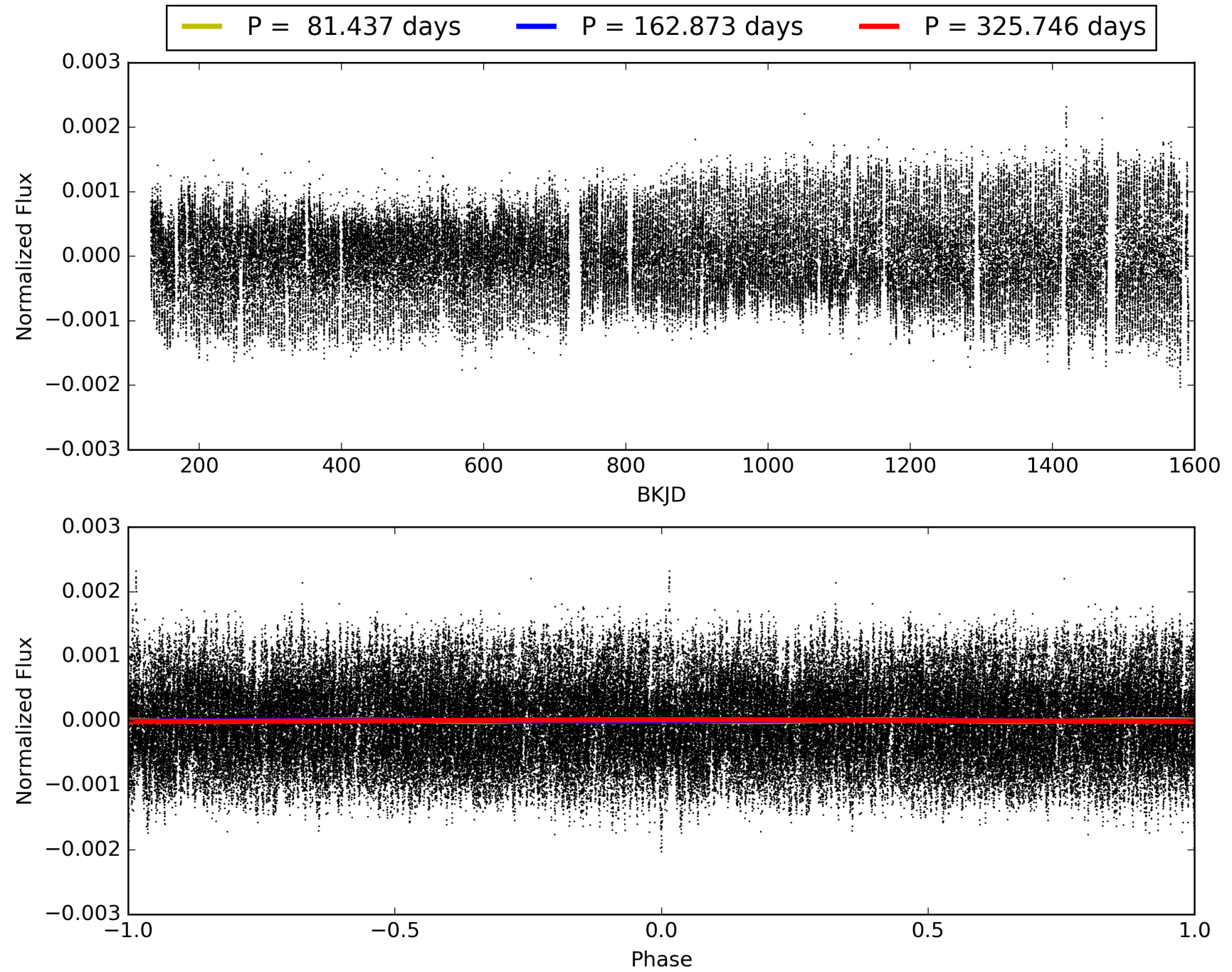
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 04:38:20 Z

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

TCE 003534192-03, PDC Light Curves

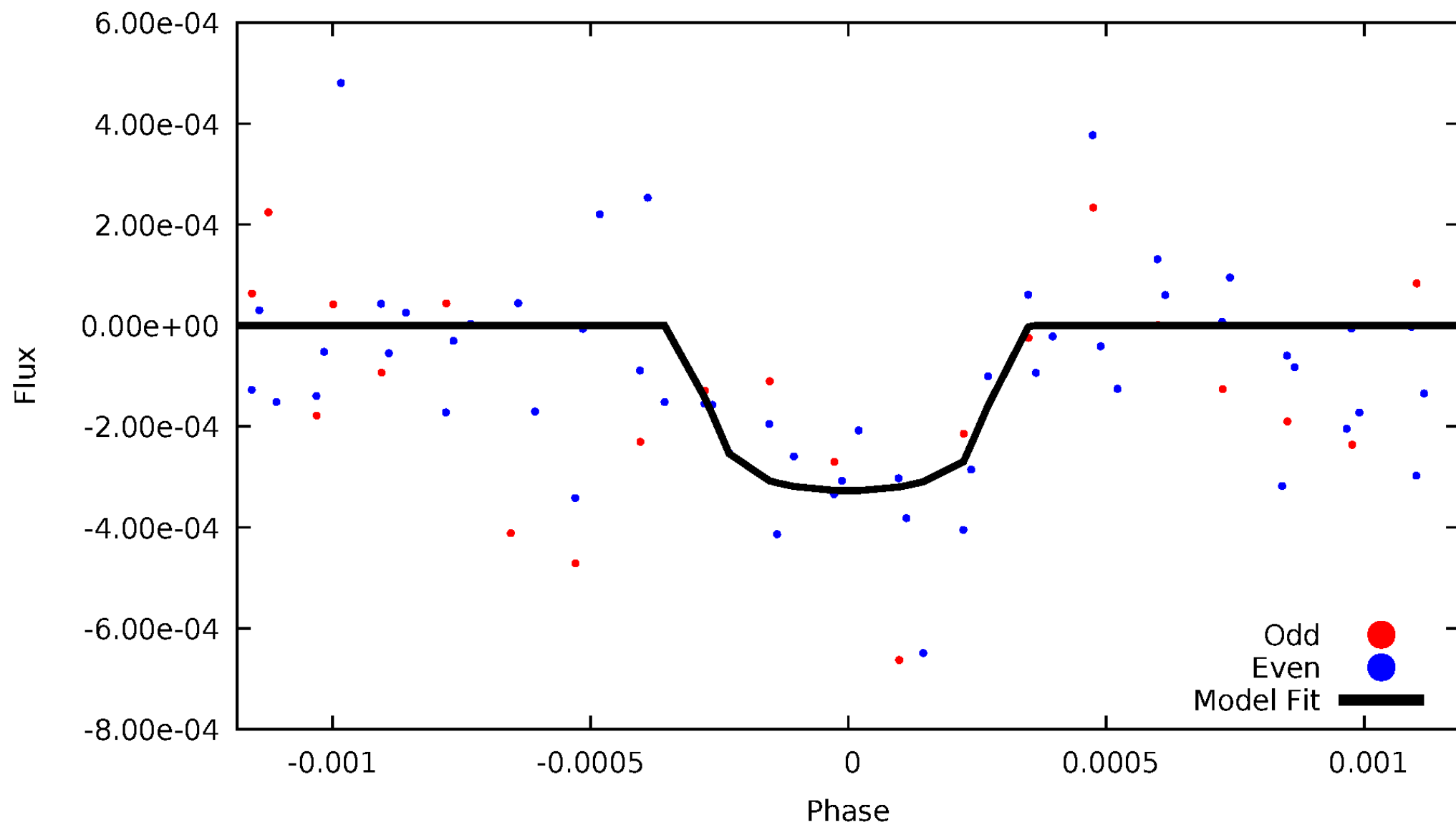


TCE 003534192-03



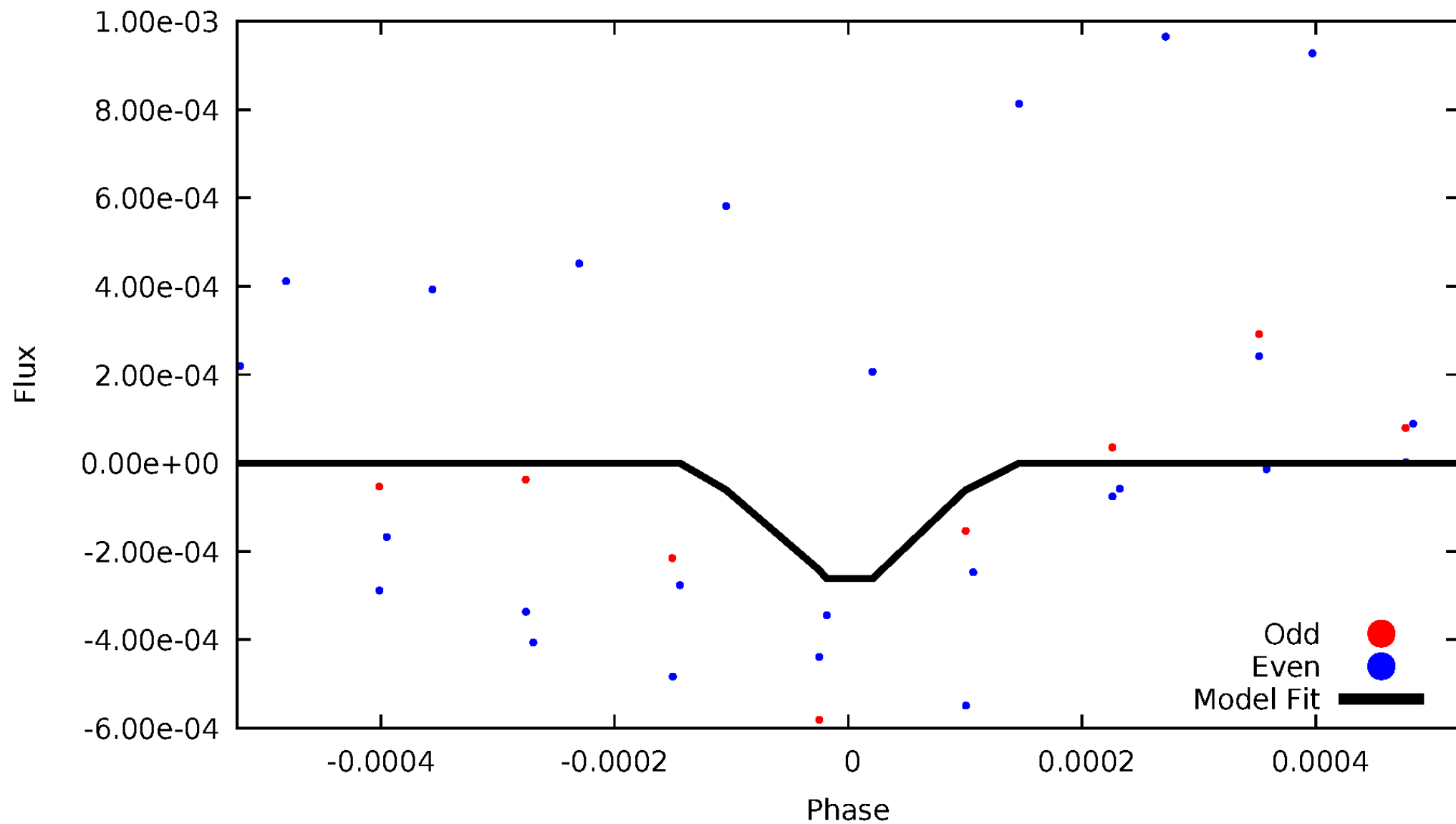
DV Odd/Even

TCE 003534192-03



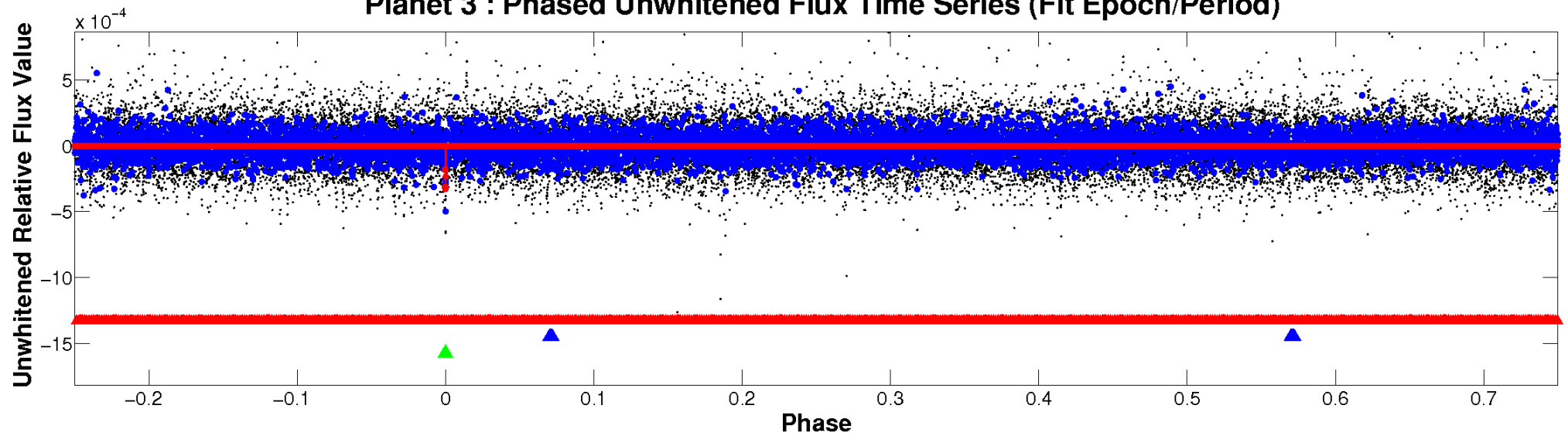
ALT Odd/Even

TCE 003534192-03

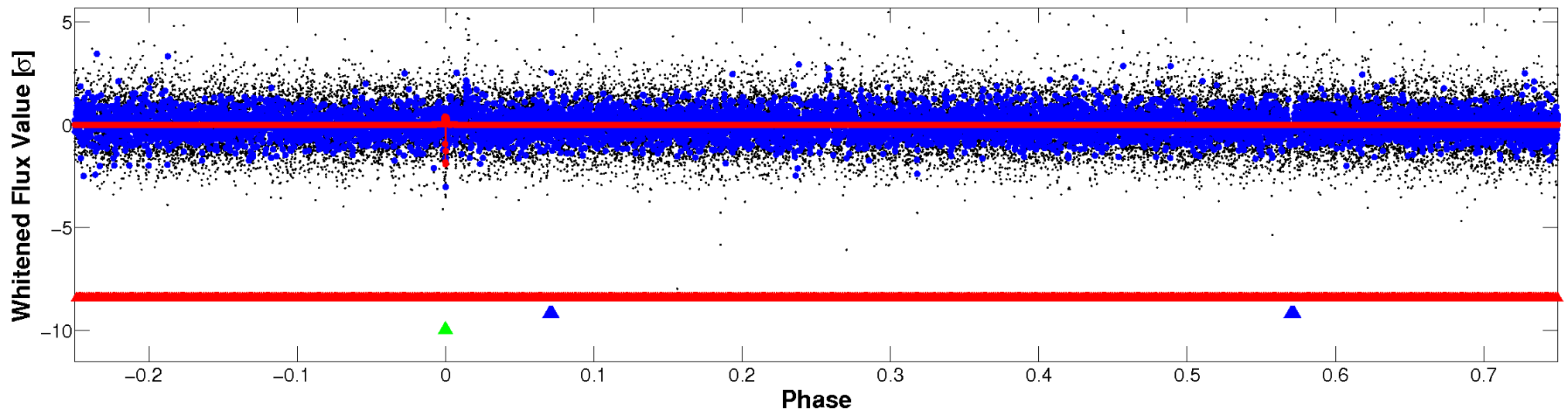


Non-Whitened Vs. Whitened Light Curve

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

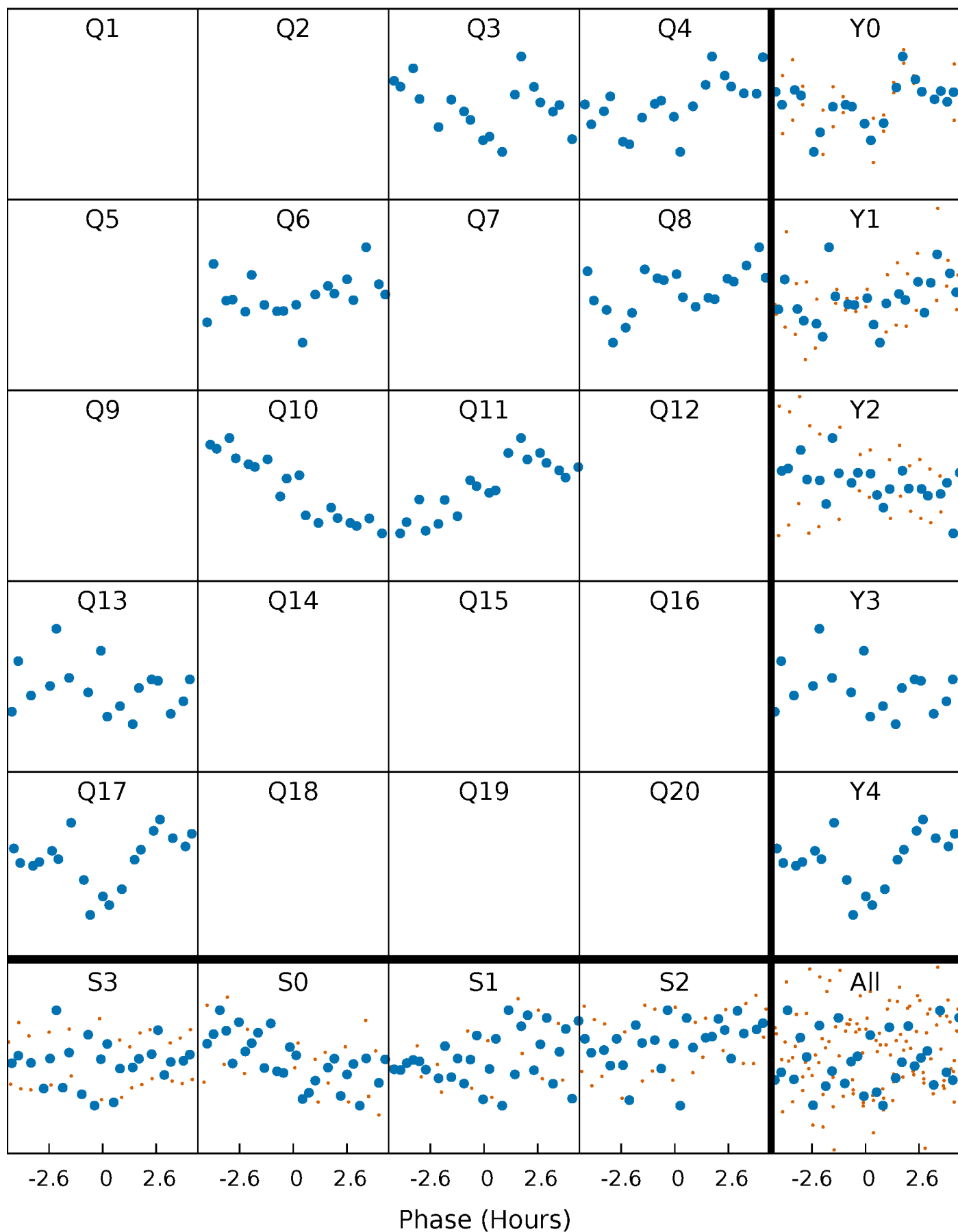


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



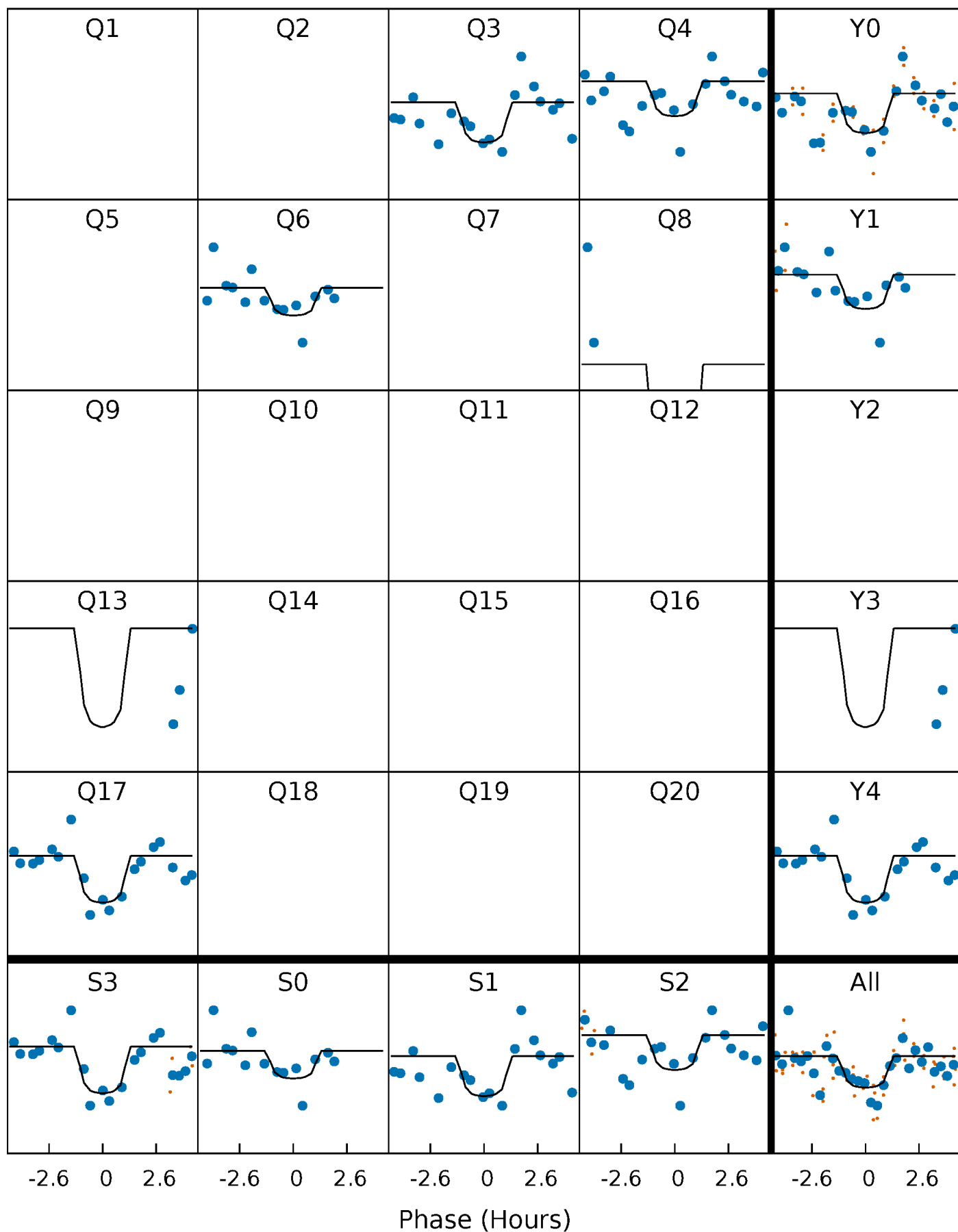
PDC Quarter-Phased Transit Curves

TCE 003534192-03 $P=162.873111$ Days $T_0=276.473371$ (BKJD)



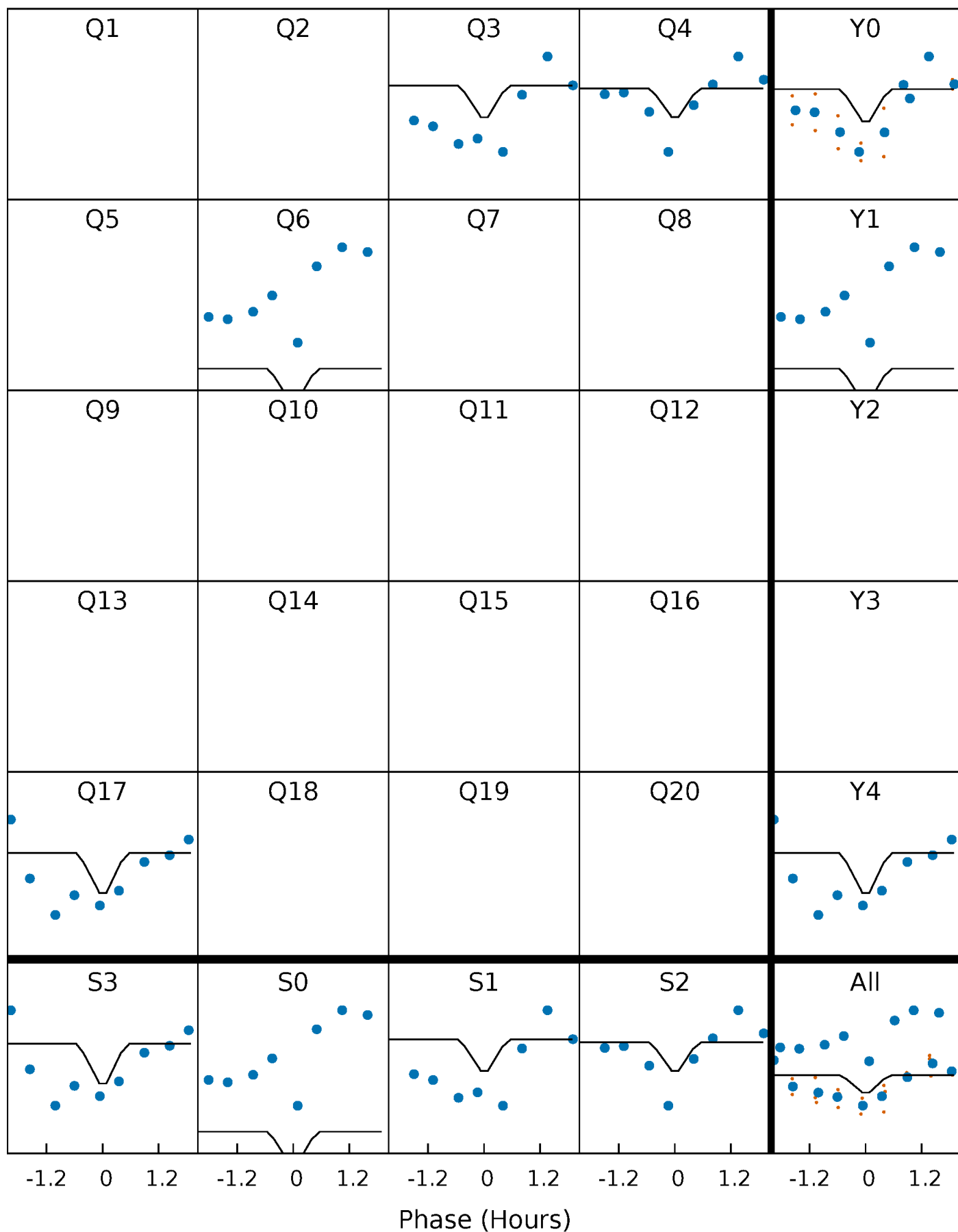
DV Quarter-Phased Transit Curves

TCE 003534192-03 P=162.873111 Days $T_0=276.473371$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

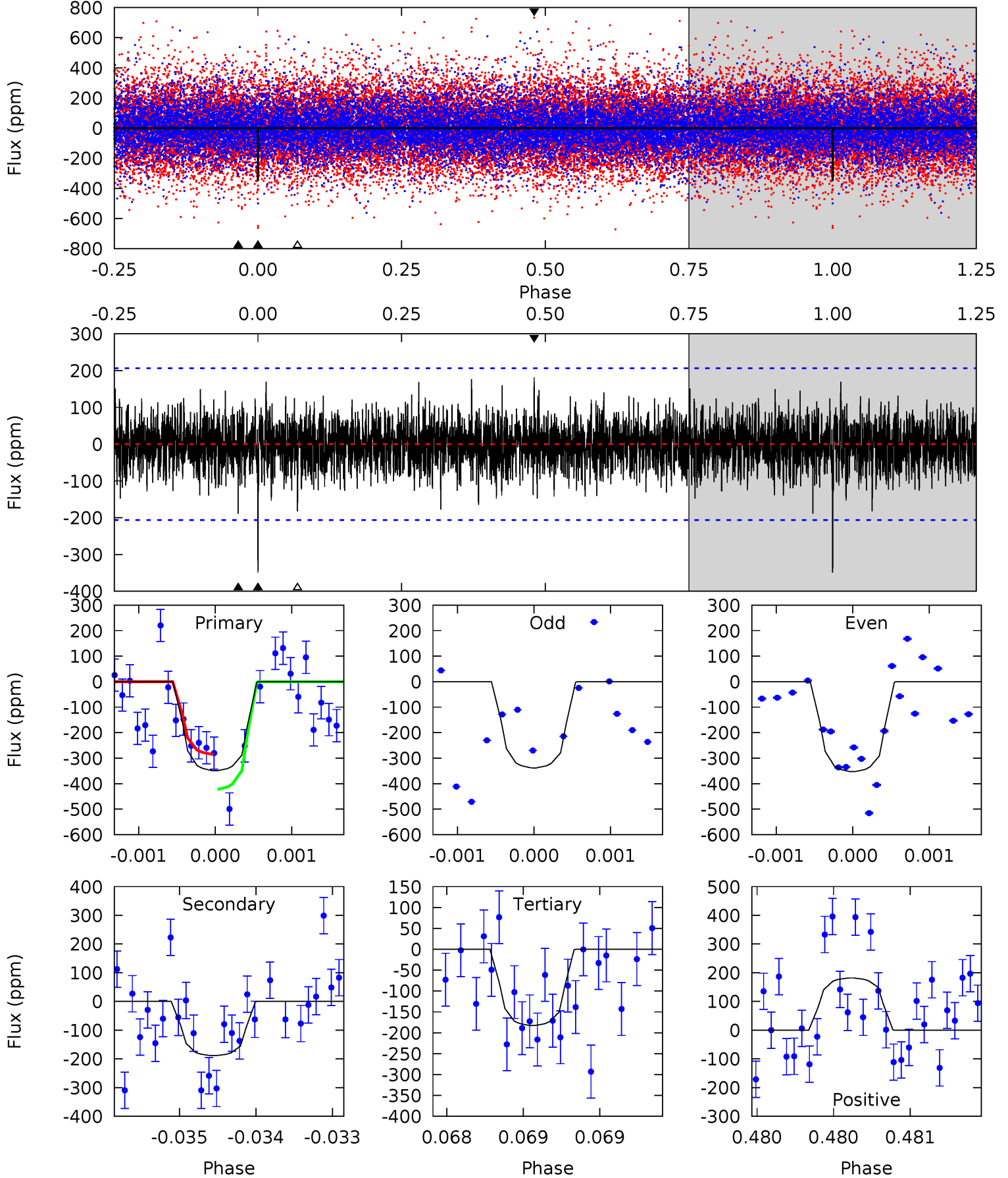
TCE 003534192-03 P=162.873290 Days $T_0=276.493321$ (BKJD)



DV Model-Shift Uniqueness Test

003534192-03, P = 162.873111 Days, E = 113.600260 Days

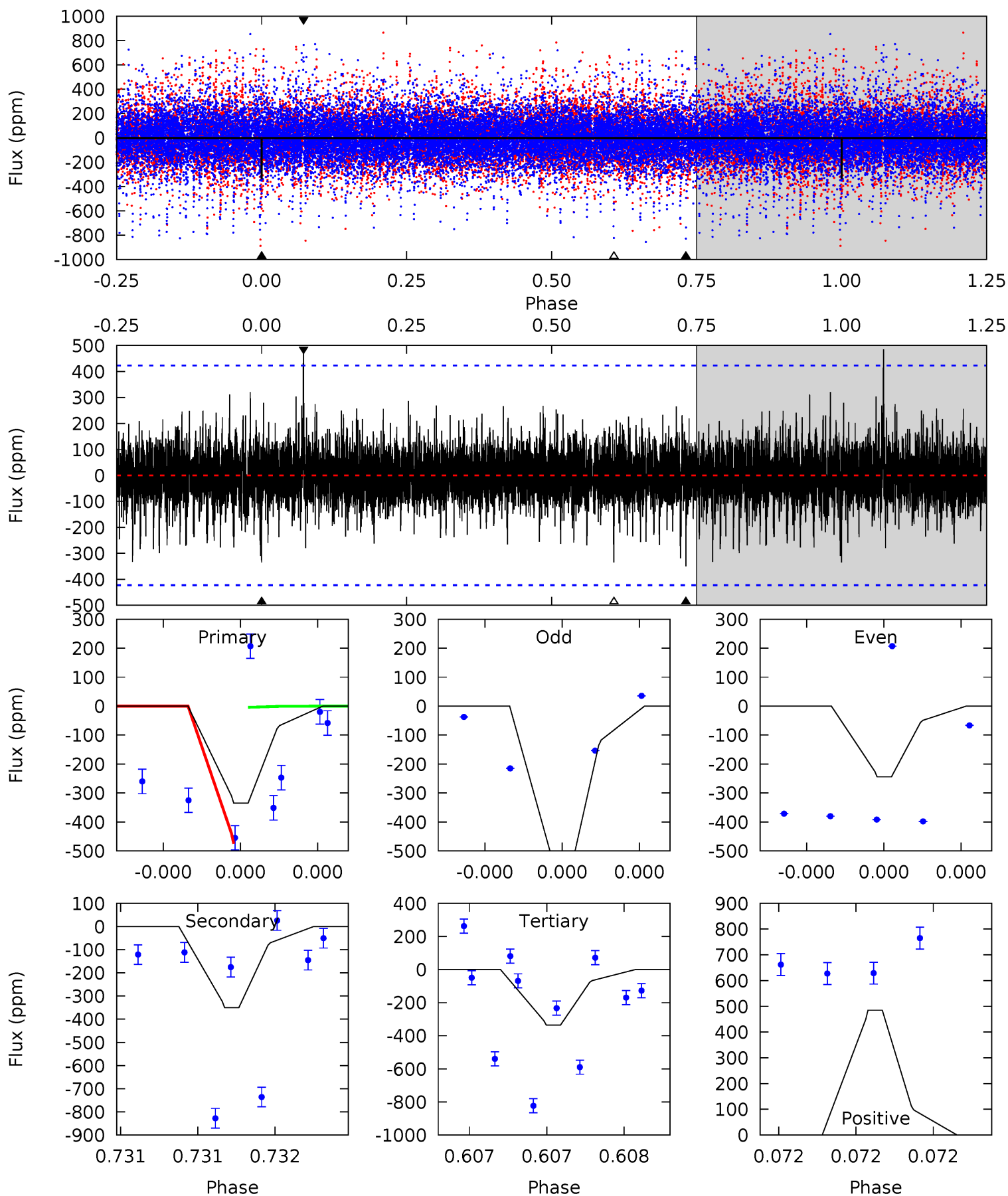
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.35	5.05	4.89	4.87	5.53	3.41	1.28	4.46	4.48	0.16	0.19	0.17	1.00	0.34	1.84



Alt Model-Shift Uniqueness Test

003534192-03, P = 162.873290 Days, E = 113.620031 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.53	4.73	4.53	6.56	5.72	3.70	0.97	0.00	-2.03	0.20	-1.83	2.12	0.66	0.58	3.20



Stellar Parameters For KIC 003534192

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6680^{+180}_{-200}	$3.557^{+0.312}_{-0.078}$	$-0.100^{+0.300}_{-0.250}$	$3.671^{+0.335}_{-1.338}$	$1.775^{+0.160}_{-0.347}$	$0.051^{+0.116}_{-0.010}$
	+3%/-3%	+9%/-2%	+300%/-250%	+9%/-36%	+9%/-20%	+230%/-19%
Source	PHO1	FLK73	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 003534192-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-189 ± 37	$9.40^{+8.57}_{-5.93}$	926^{+48}_{-82}	5017^{+3385}_{-1081}	584^{+3753}_{-421}
Alt.	-350 ± 74	$9.83^{+9.19}_{-6.47}$	926^{+46}_{-79}	5598^{+5114}_{-1306}	983^{+7541}_{-732}

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 $A_{obs} \gg 1.0$

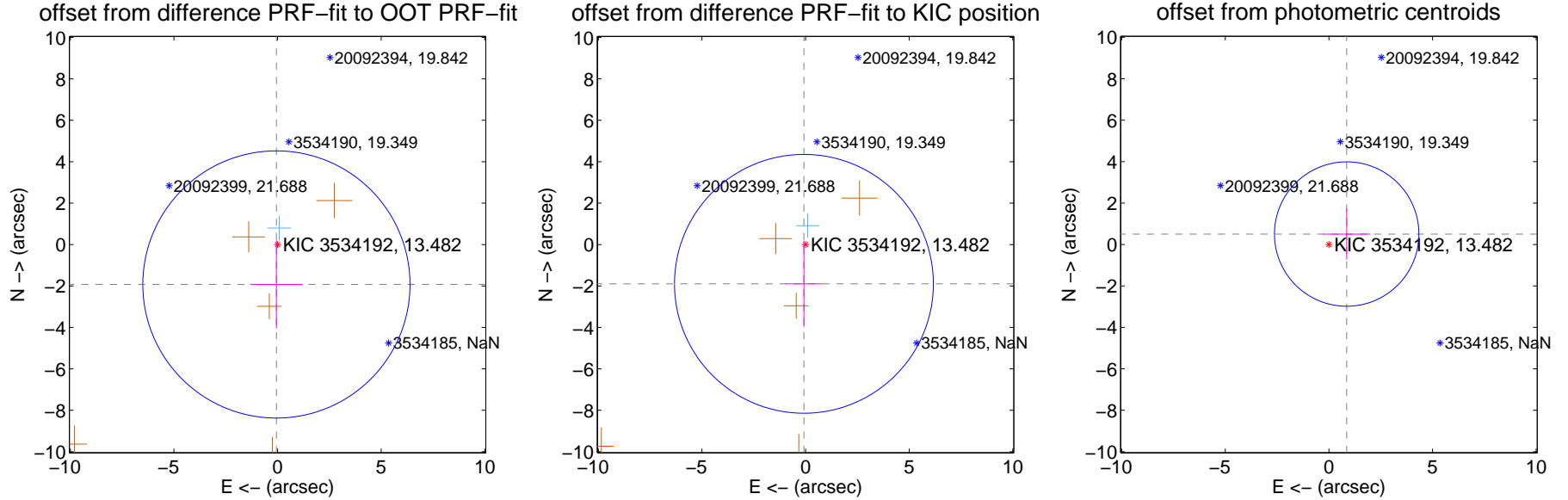
DV Centroid Data

Supplemental centroid analysis for 003534192-03. Kepler magnitude: 13.48. Transit SNR 7.33

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.927 ± 2.150	0.90	0.054 ± 1.256	-1.926 ± 2.130
PRF-fit source offset from KIC position	1.897 ± 2.082	0.91	0.078 ± 0.906	-1.895 ± 2.084
photometric centroid source offset	0.99 ± 1.16	0.86	-0.86 ± 1.14	0.50 ± 1.23



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.

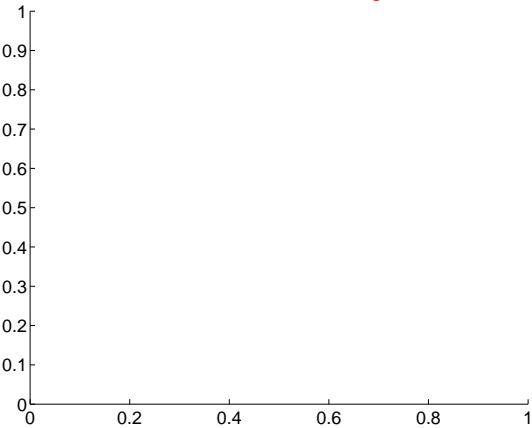
Q1 no difference image



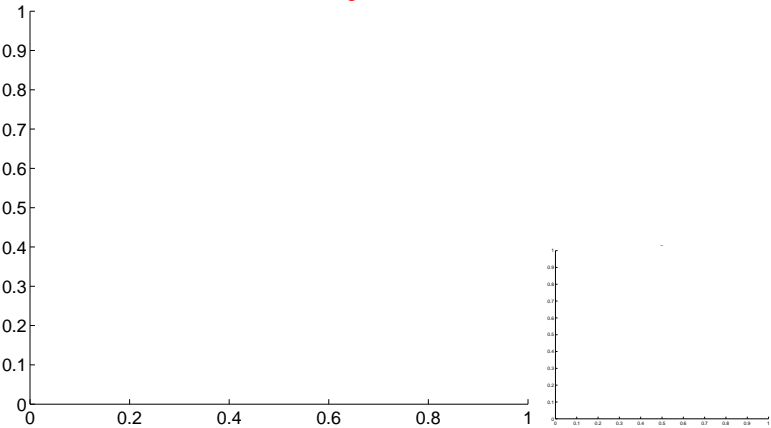
Q1 no OOT image



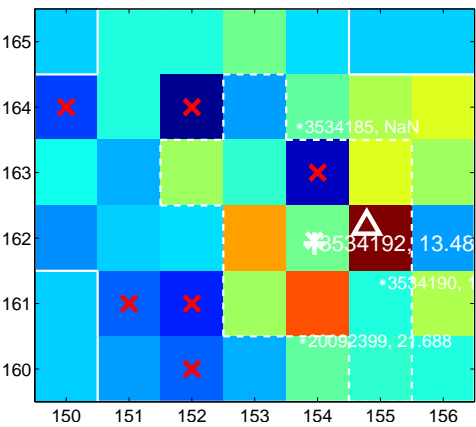
Q2 no difference image



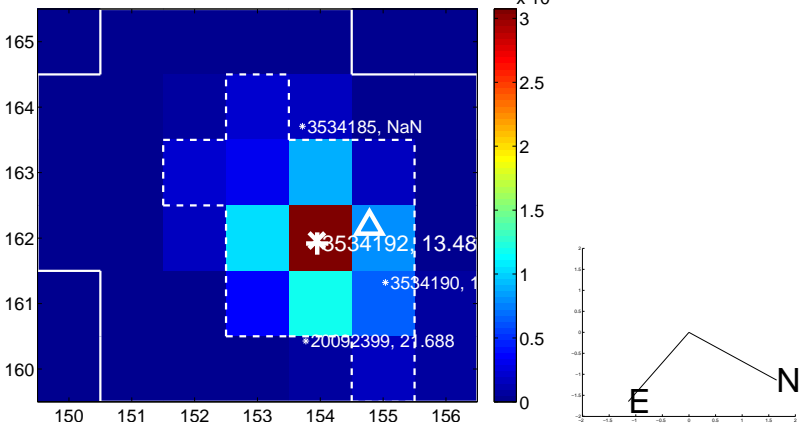
Q2 no OOT image



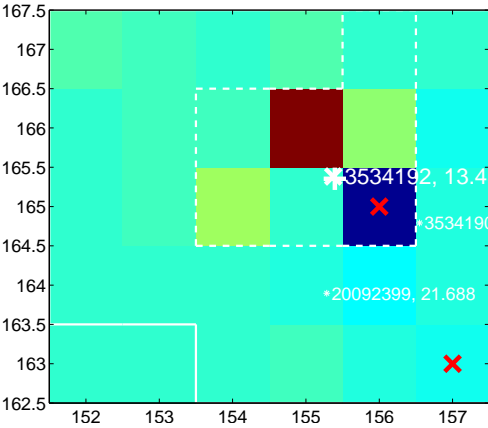
Q3 difference image. Poor Quality



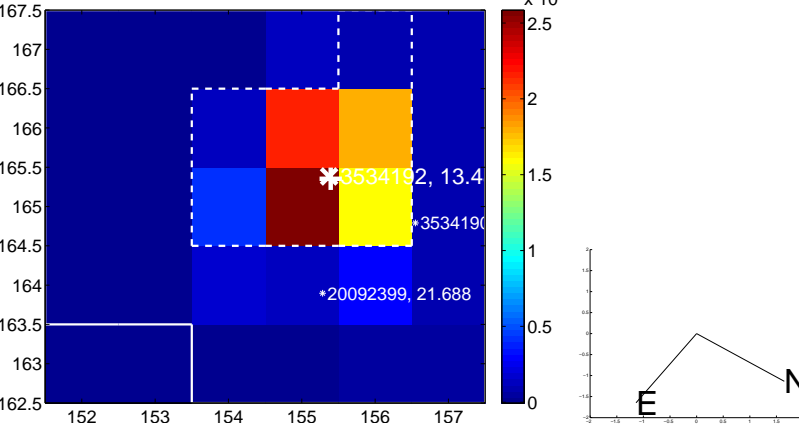
Q3 OOT image



Q4 difference image. Poor Quality



Q4 OOT image



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

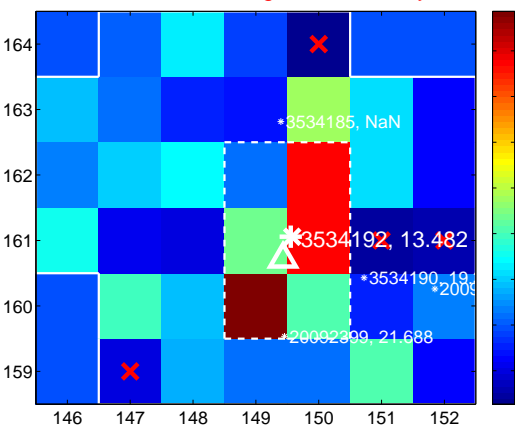
Q5 no difference image



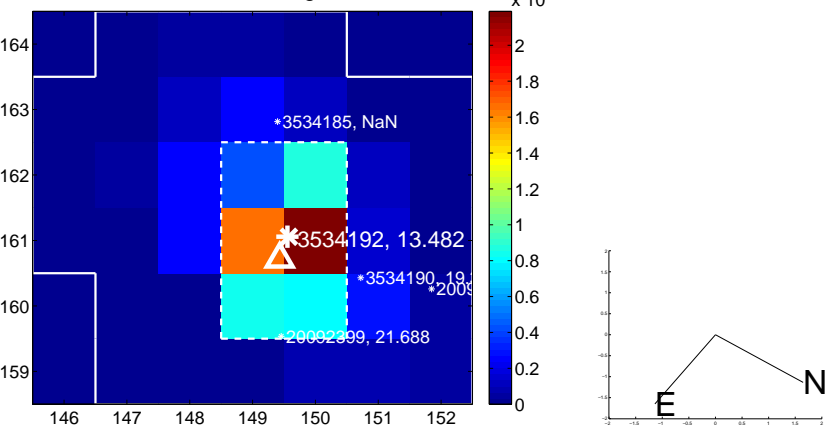
Q5 no OOT image



Q6 difference image. Poor Quality



Q6 OOT image



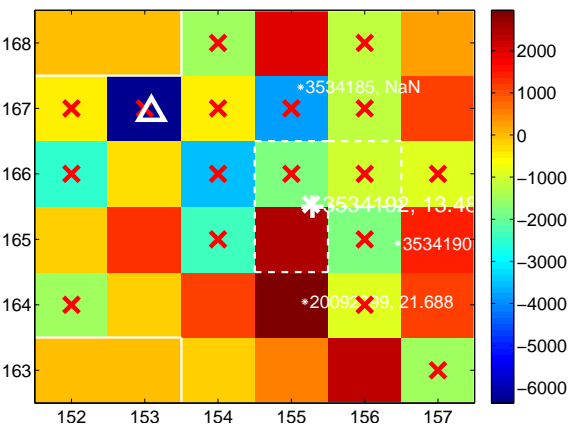
Q7 no difference image



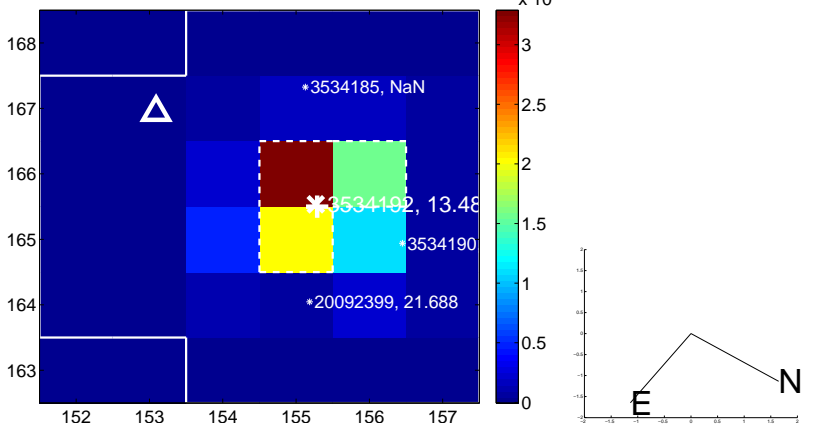
Q7 no OOT image



Q8 difference image. Poor Quality



Q8 OOT image



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

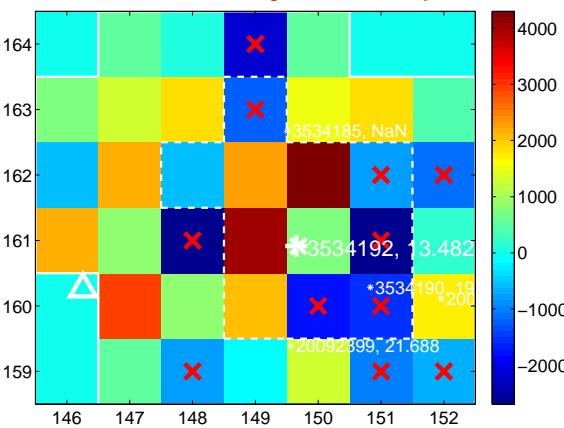
Q9 no difference image



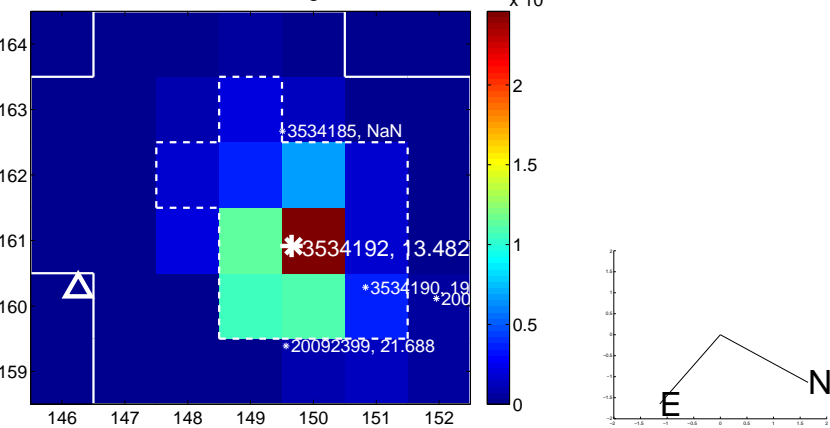
Q9 no OOT image



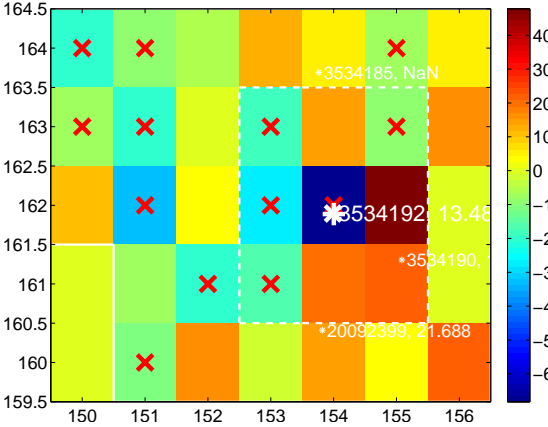
Q10 difference image. Poor Quality



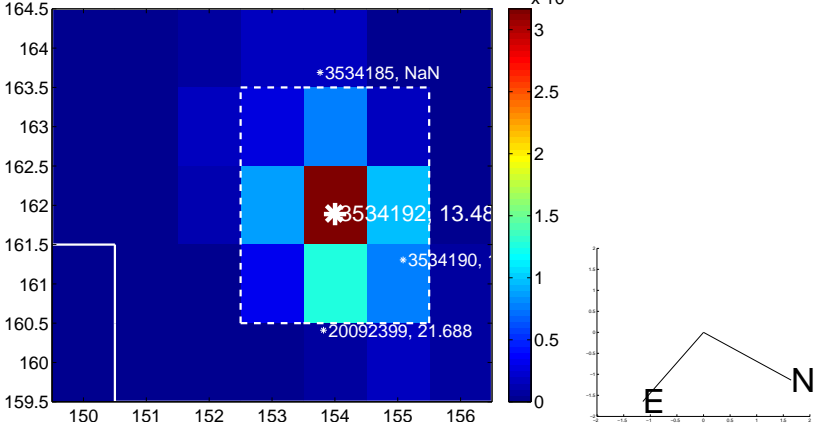
Q10 OOT image



Q11 difference image. Poor Quality



Q11 OOT image



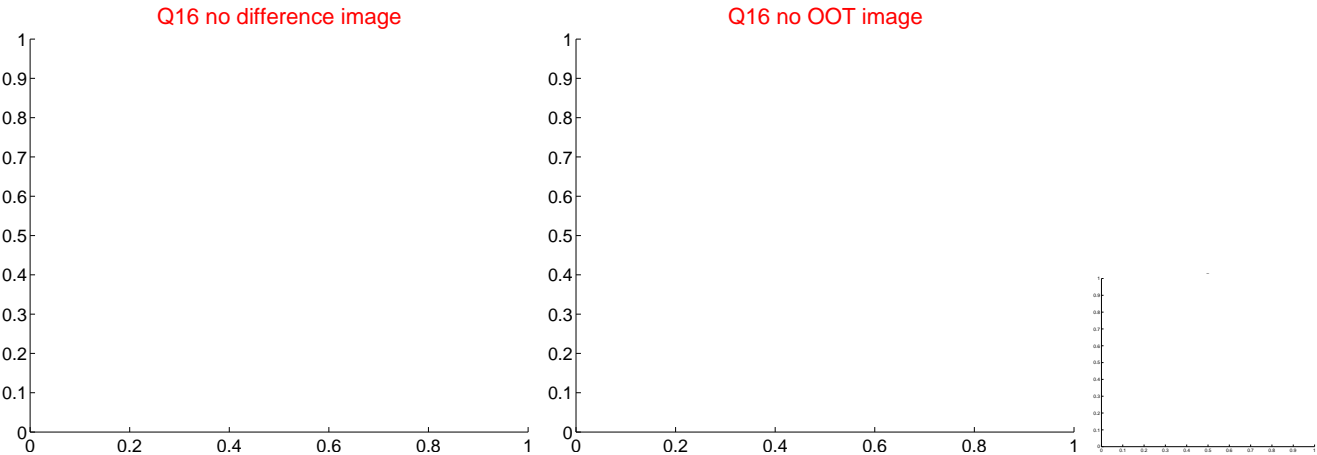
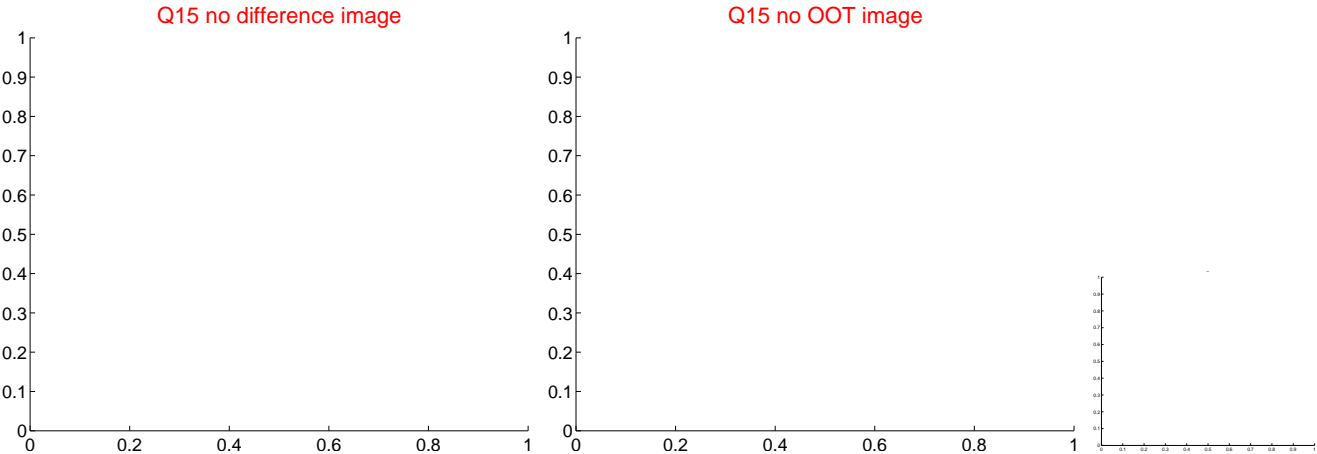
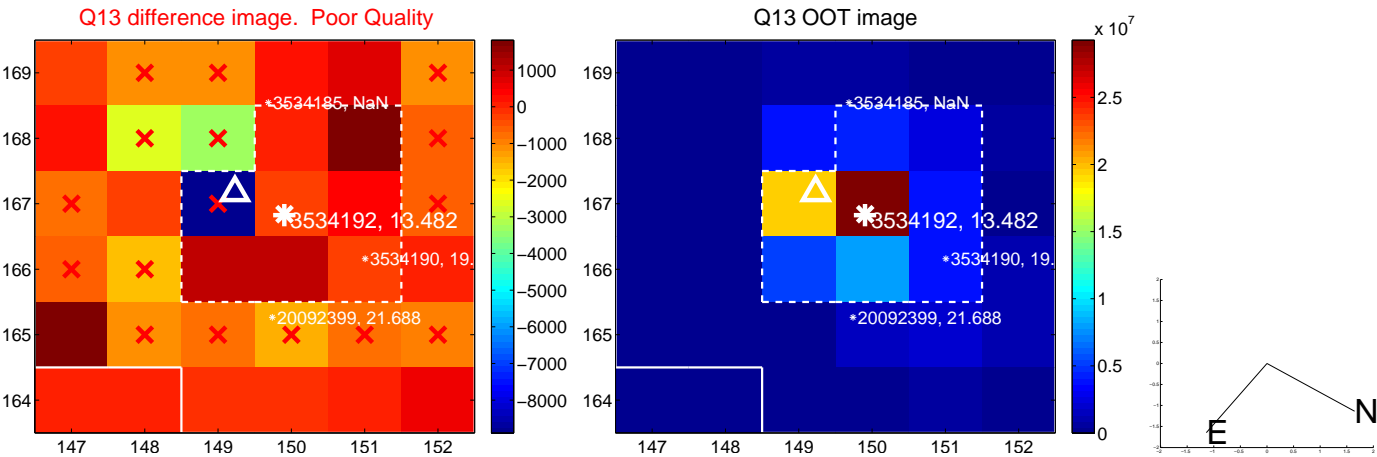
Q12 no difference image



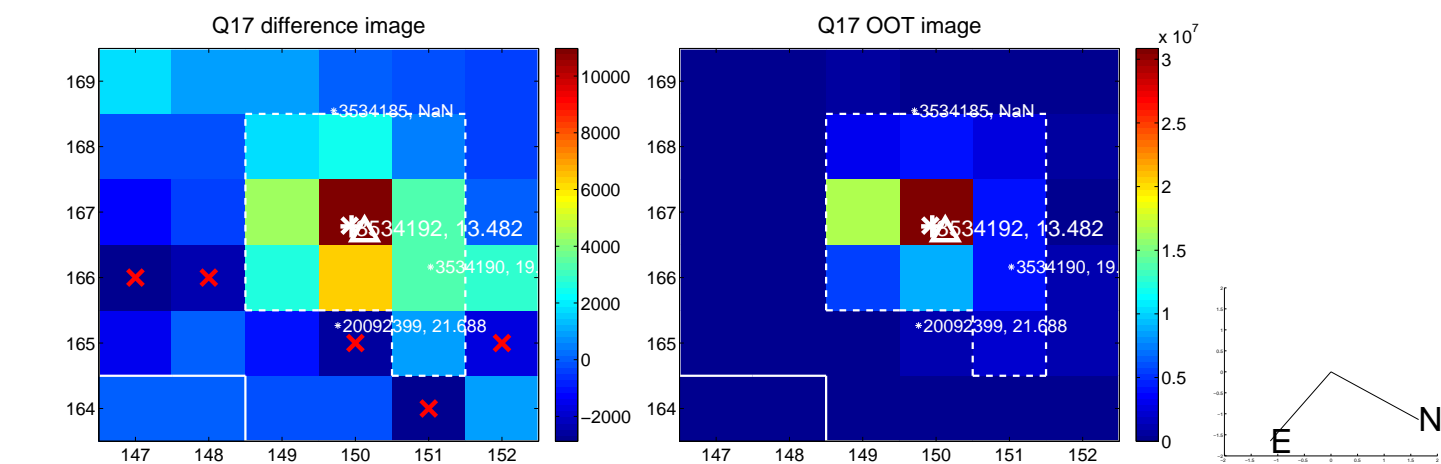
Q12 no OOT image



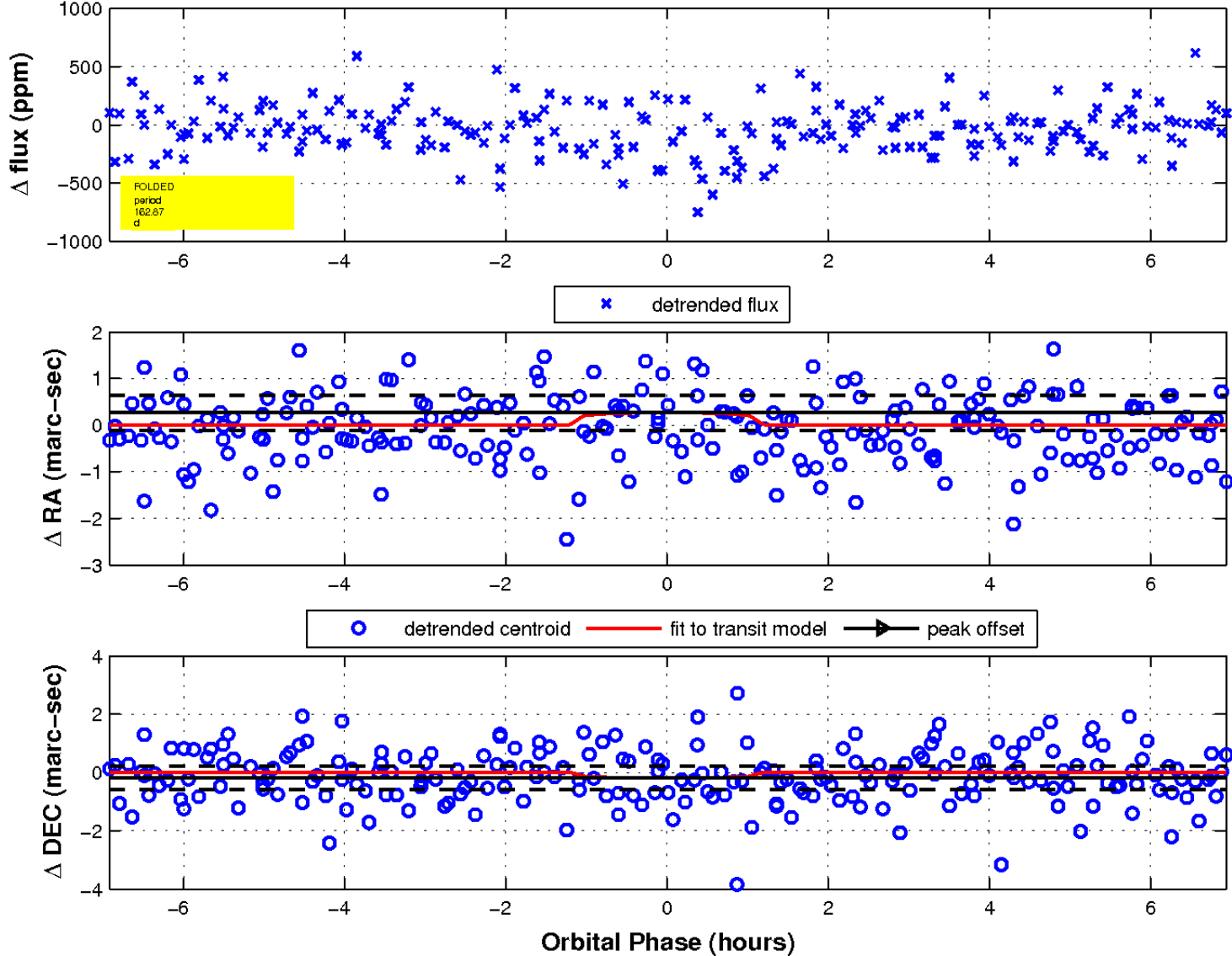
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

