

KIC 007505345

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})
007505345-01	OBS	No	0.947486	131.882718	251.4	2.833	234.4	0.2	2.98	7990	4.85	59336.66
007505345-02	OBS	No	0.948667	131.636584	580.2	1.150	186.3	0.5	2.98	7990	7.79	59238.13
007505345-03	OBS	No	0.947405	131.507027	967.2	3.000	93.0	-1.0	2.98	7990	9.38	59343.35

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007505345-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT
007505345-02	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—HALO_GHOST
007505345-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

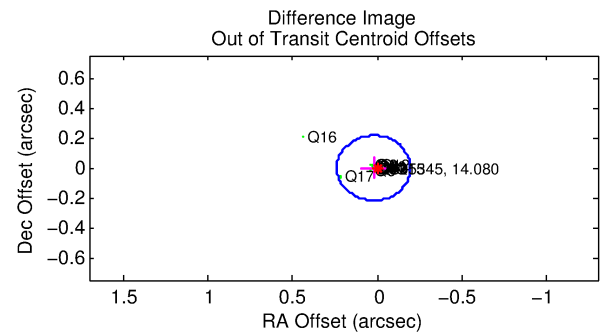
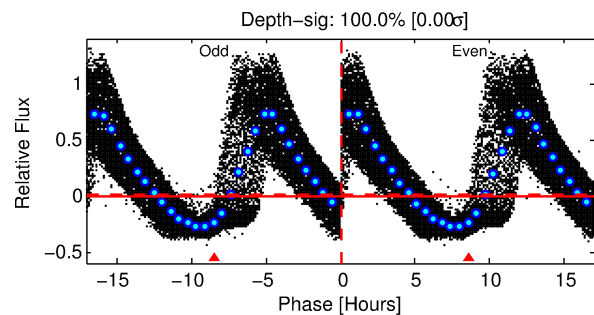
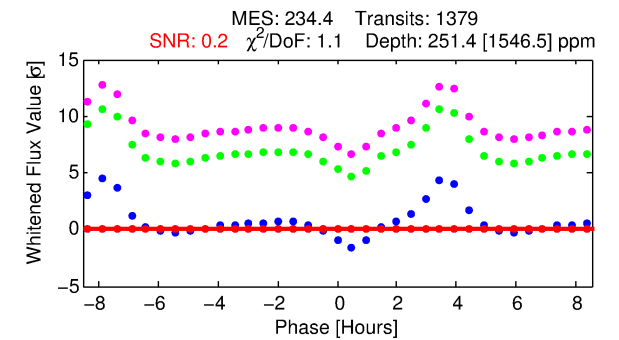
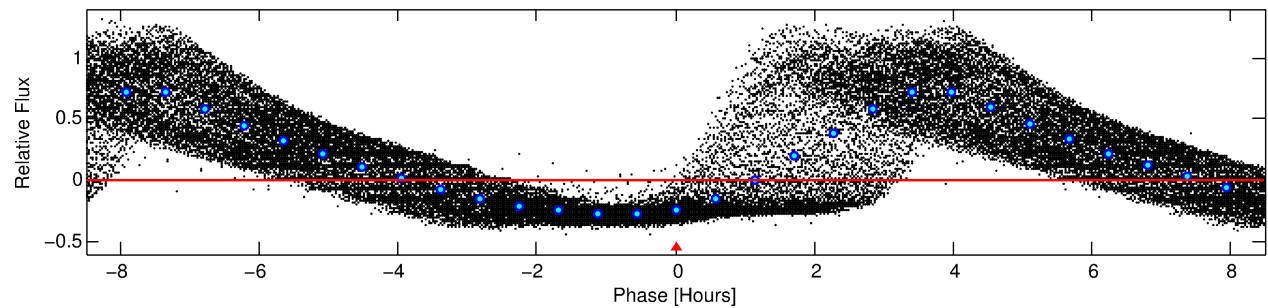
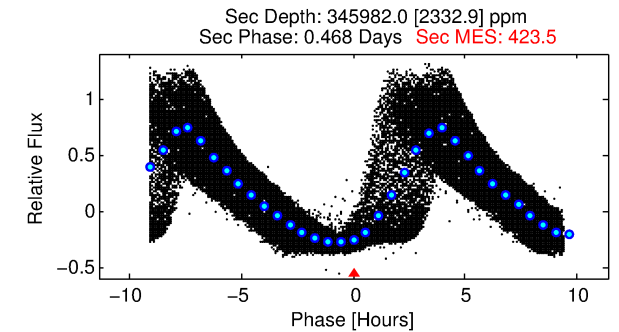
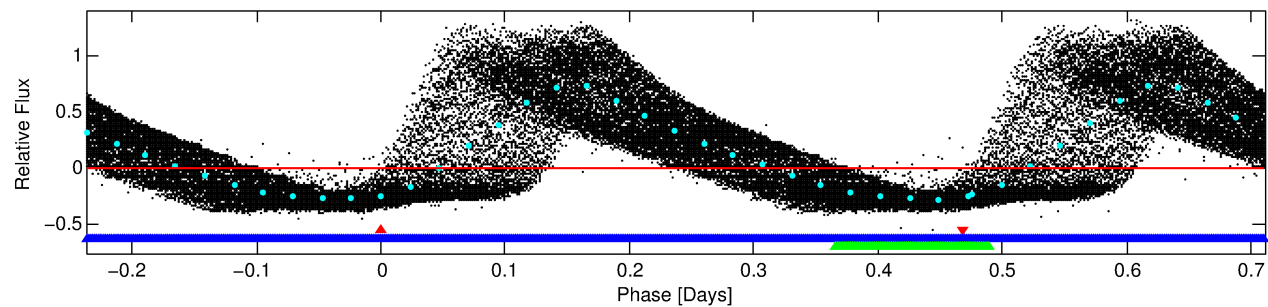
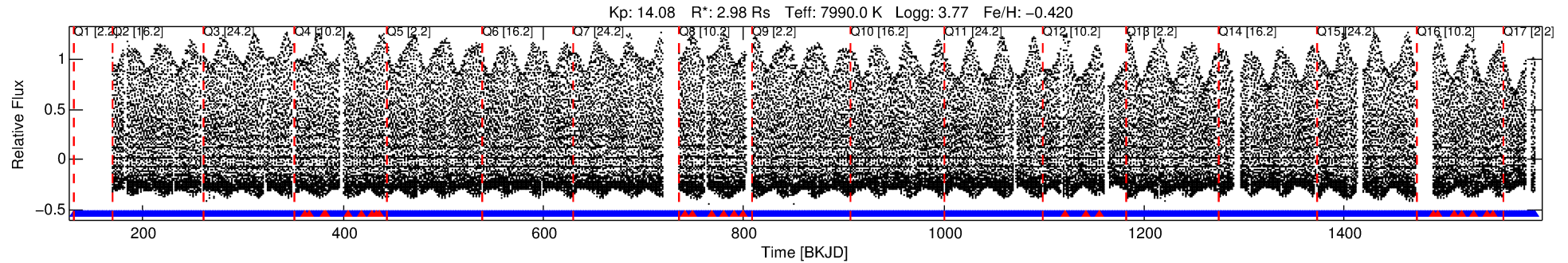
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007505345-01

No Significant Match Found

DV One-Page Summary

KIC: 7505345 Candidate: 1 of 3 Period: 0.947 d



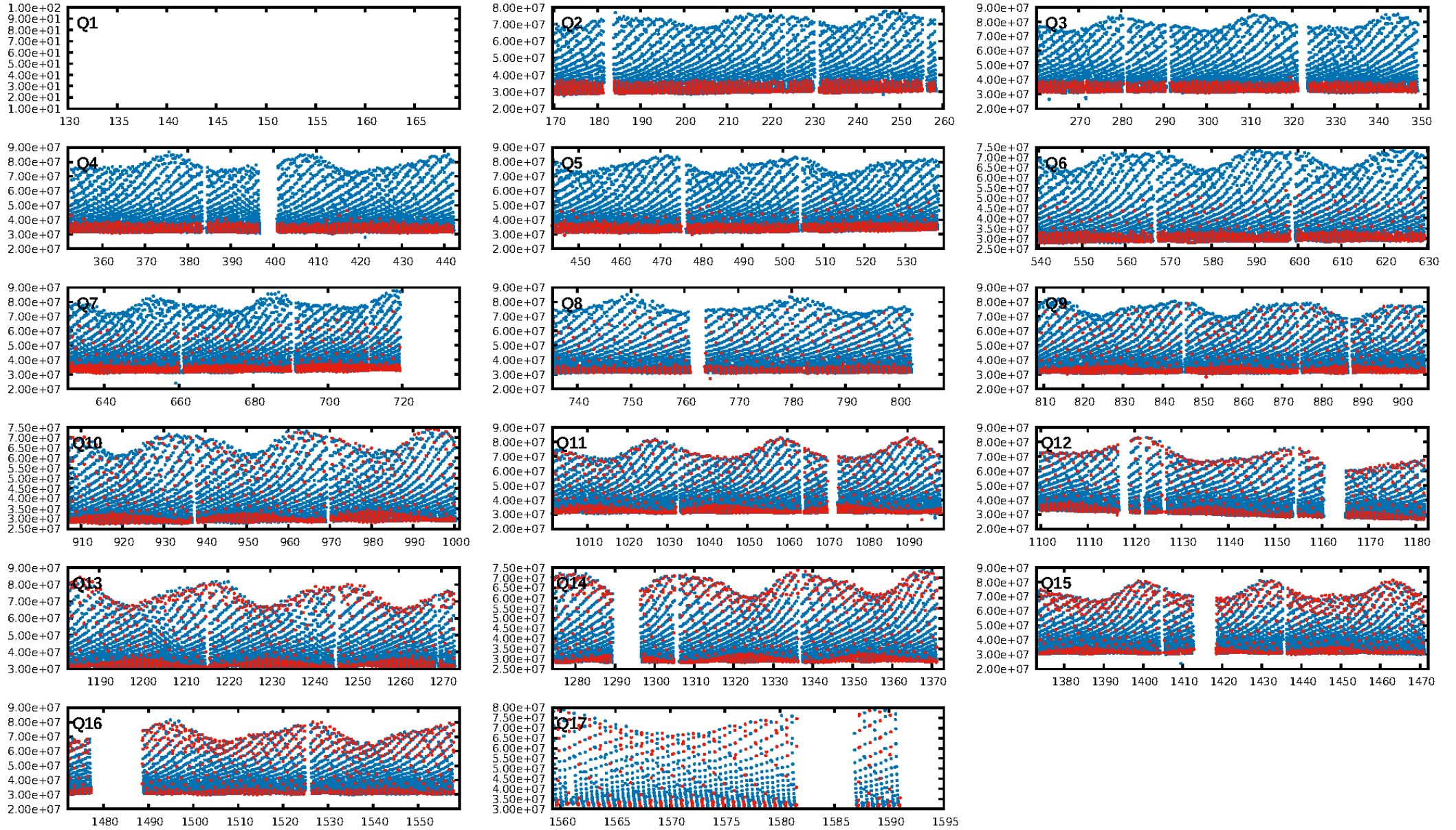
DV Fit Results:

Period = 0.94749 [0.00043] d
Epoch = 131.8827 [0.0625] BKJD
Rp/R* = 0.0149 [0.2174]
a/R* = 2.48 [171.49]
b = 0.39 [178.68]
Seff = 59336.66 [46017.44]
Teff = 3980 [772] K
Rp = 4.85 [70.78] Re
a = 0.0234 [0.0109] AU
Ag = 4428.83 [129263.20] [0.03 σ]
Teffp = 50196 [366149] K [0.13 σ]

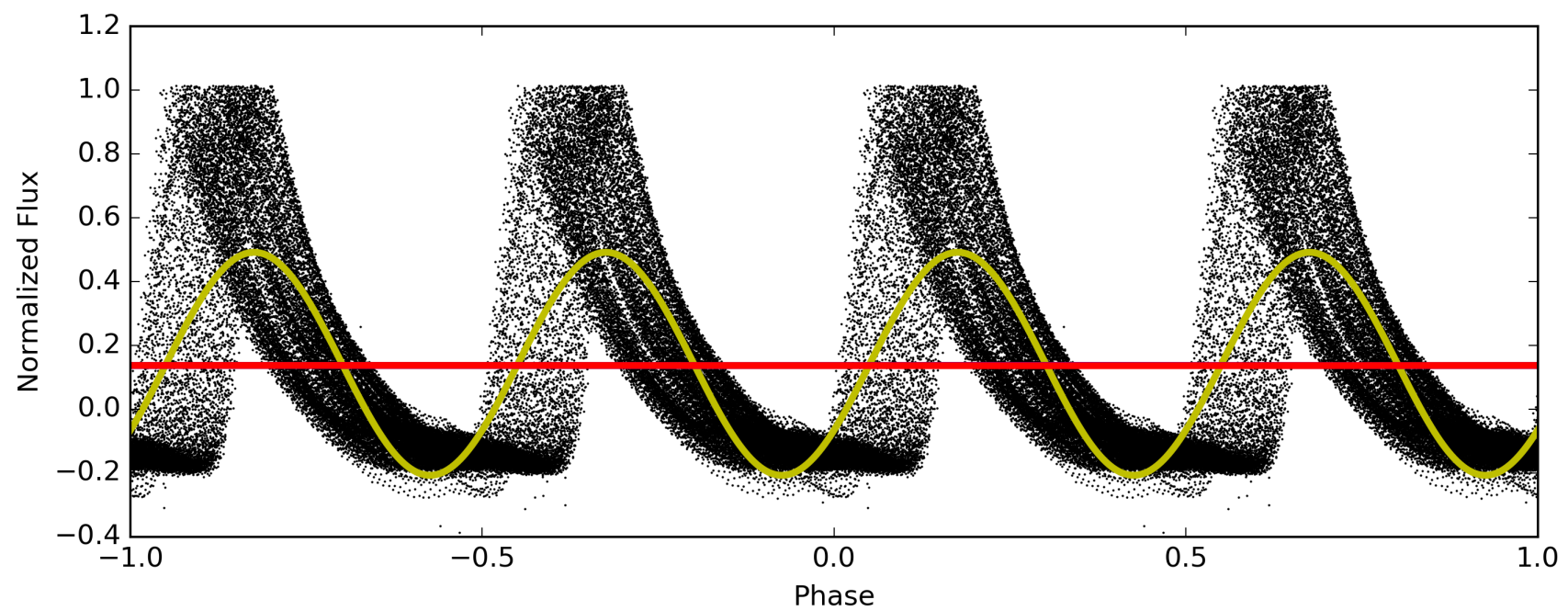
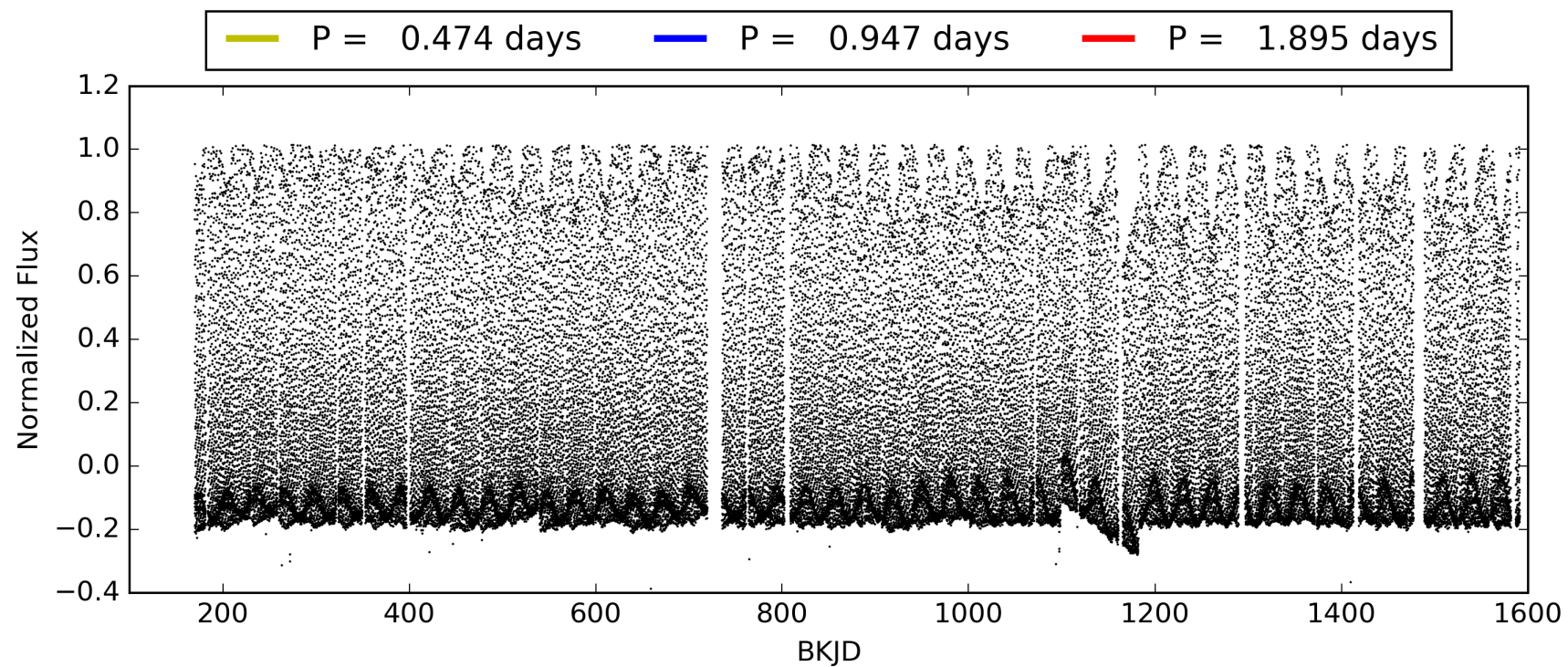
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 0.7% [0.01 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.98 [1324/1350]
GhostDiagnostic-chr: 1.208
Centroid-sig: N/A
Centroid-so: 0.150 arcsec [0.56 σ]
OotOffset-rm: 0.023 arcsec [0.31 σ]
KicOffset-rm: 0.256 arcsec [3.45 σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.88 [14/16]
DiffImageOverlap-fno: 0.25 [4/16]

TCE 007505345-01, PDC Light Curves

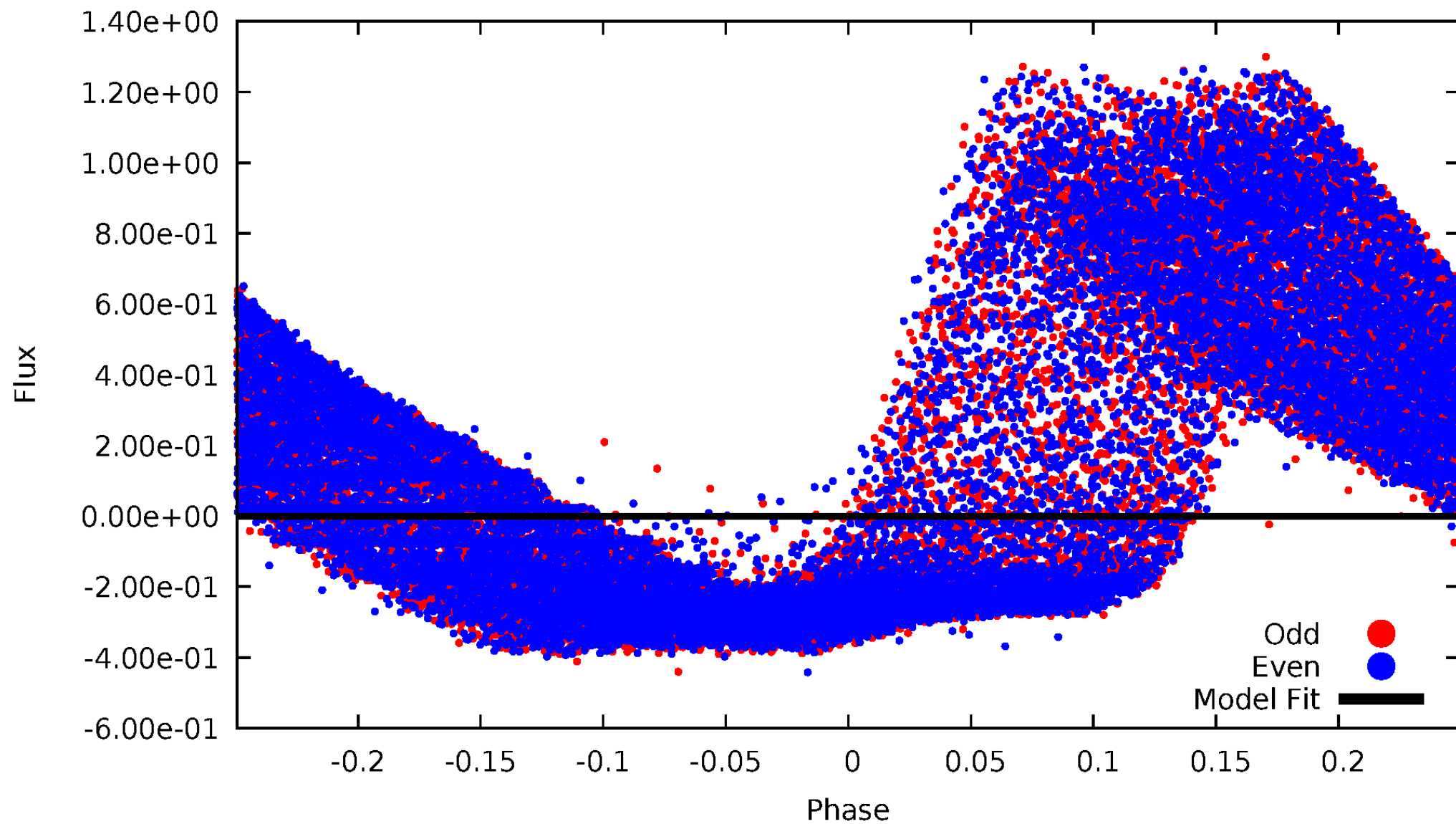


TCE 007505345-01



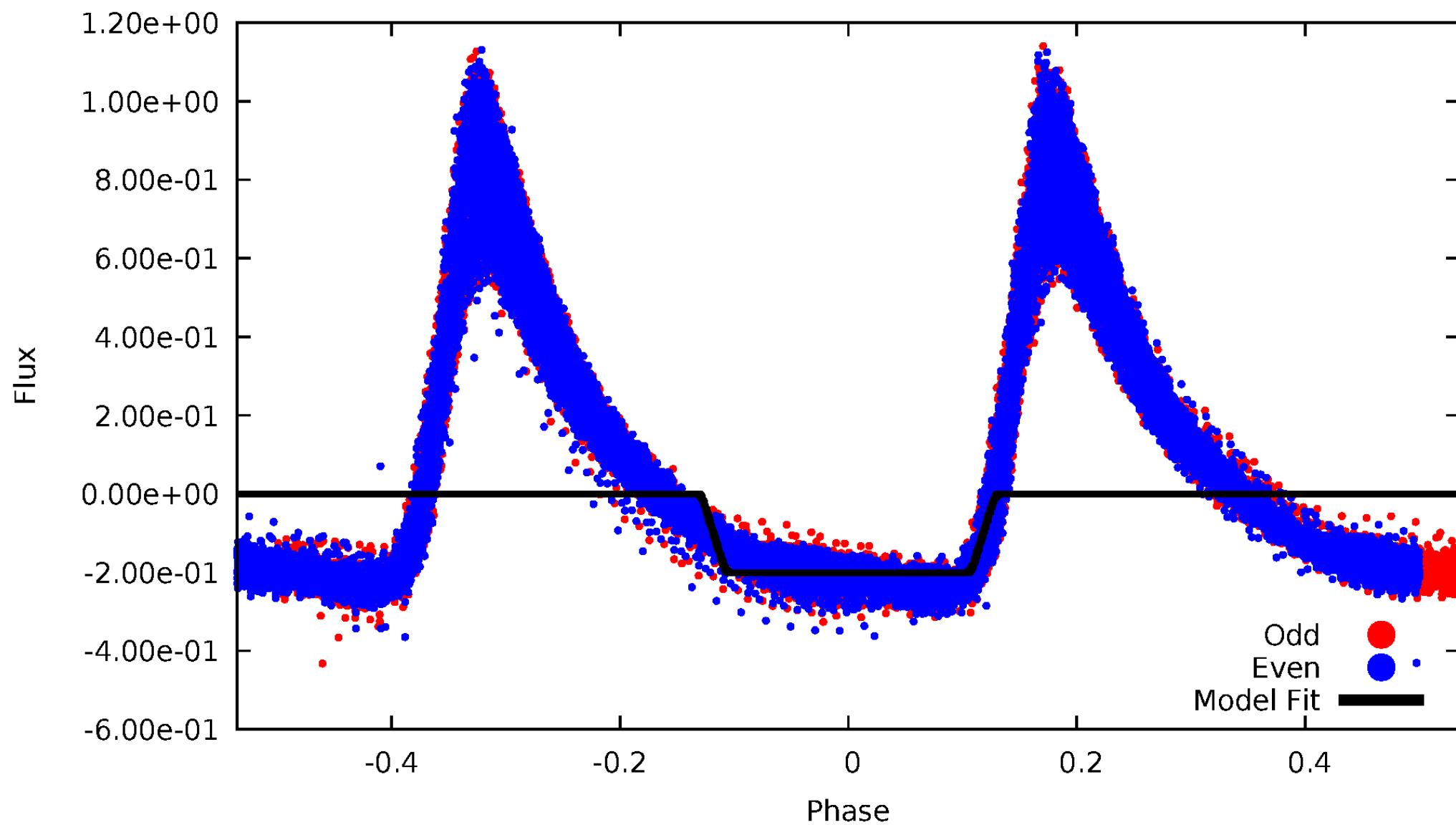
DV Odd/Even

TCE 007505345-01



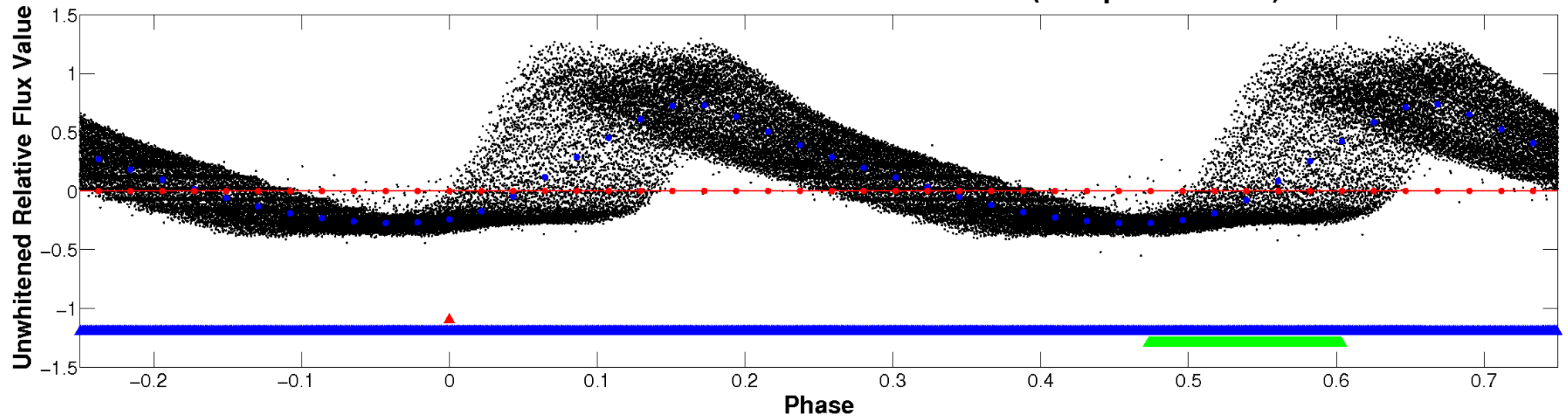
ALT Odd/Even

TCE 007505345-01

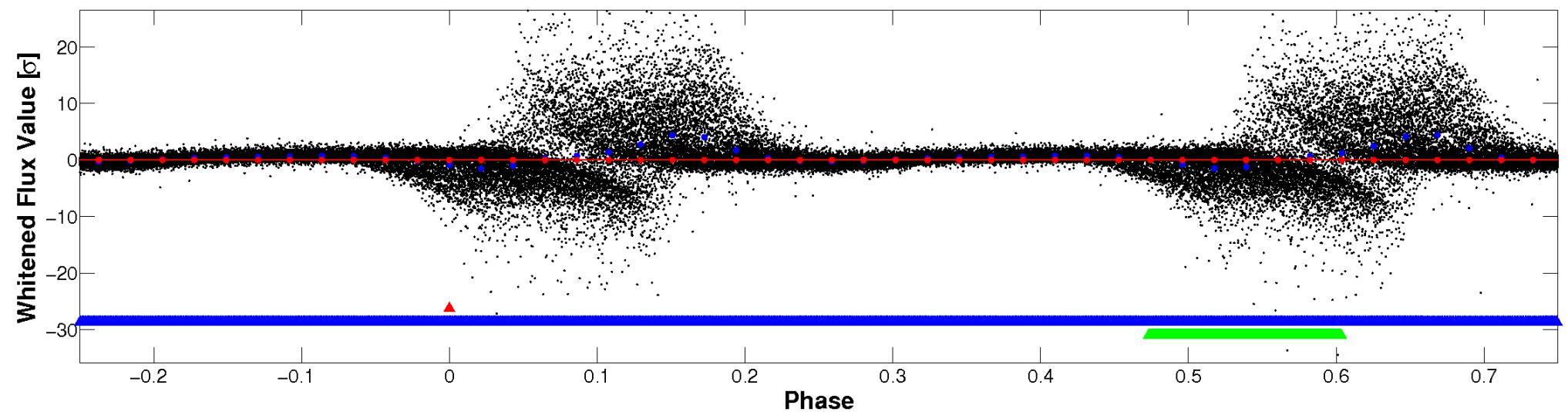


Non-Whitened Vs. Whitened Light Curve

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

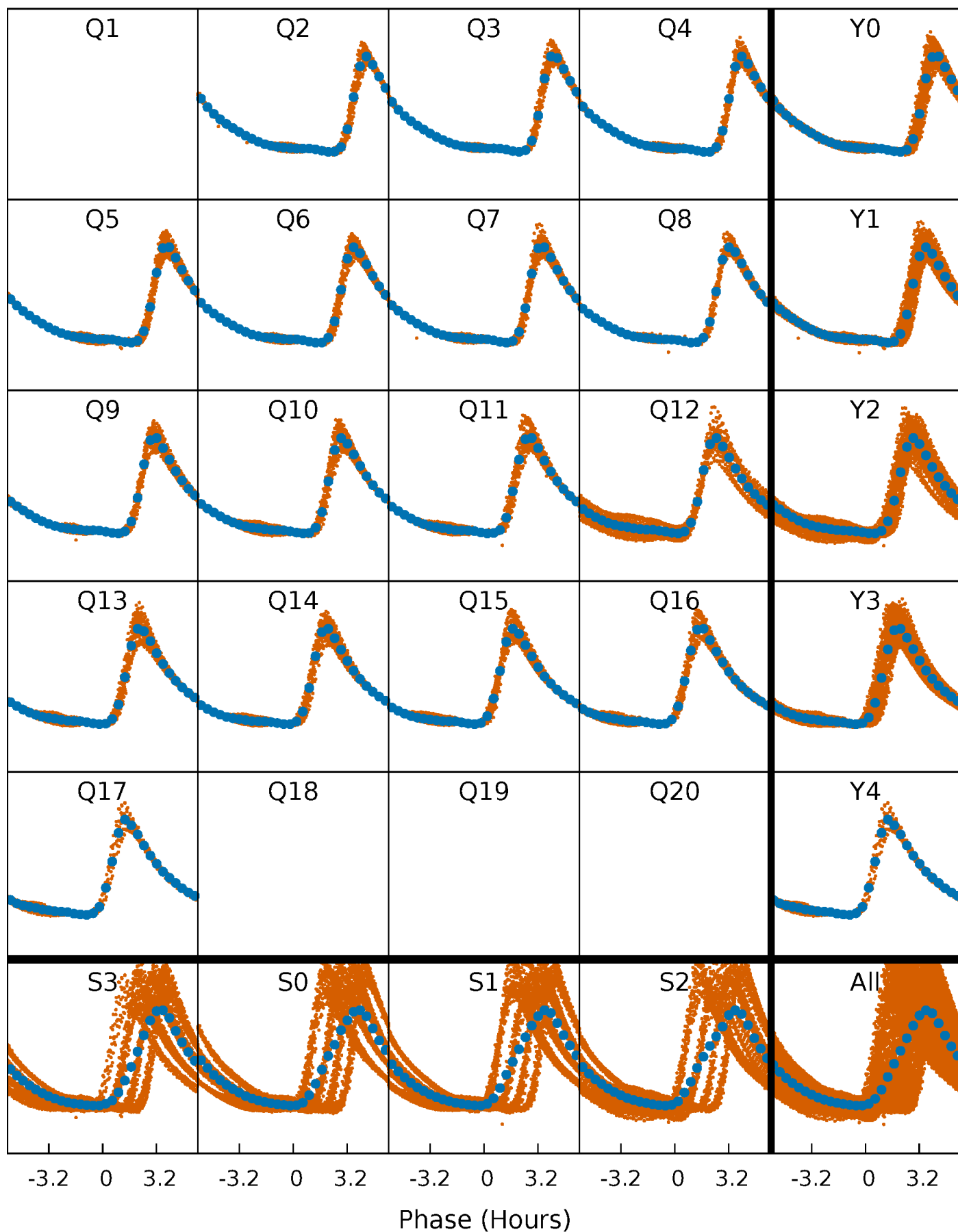


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



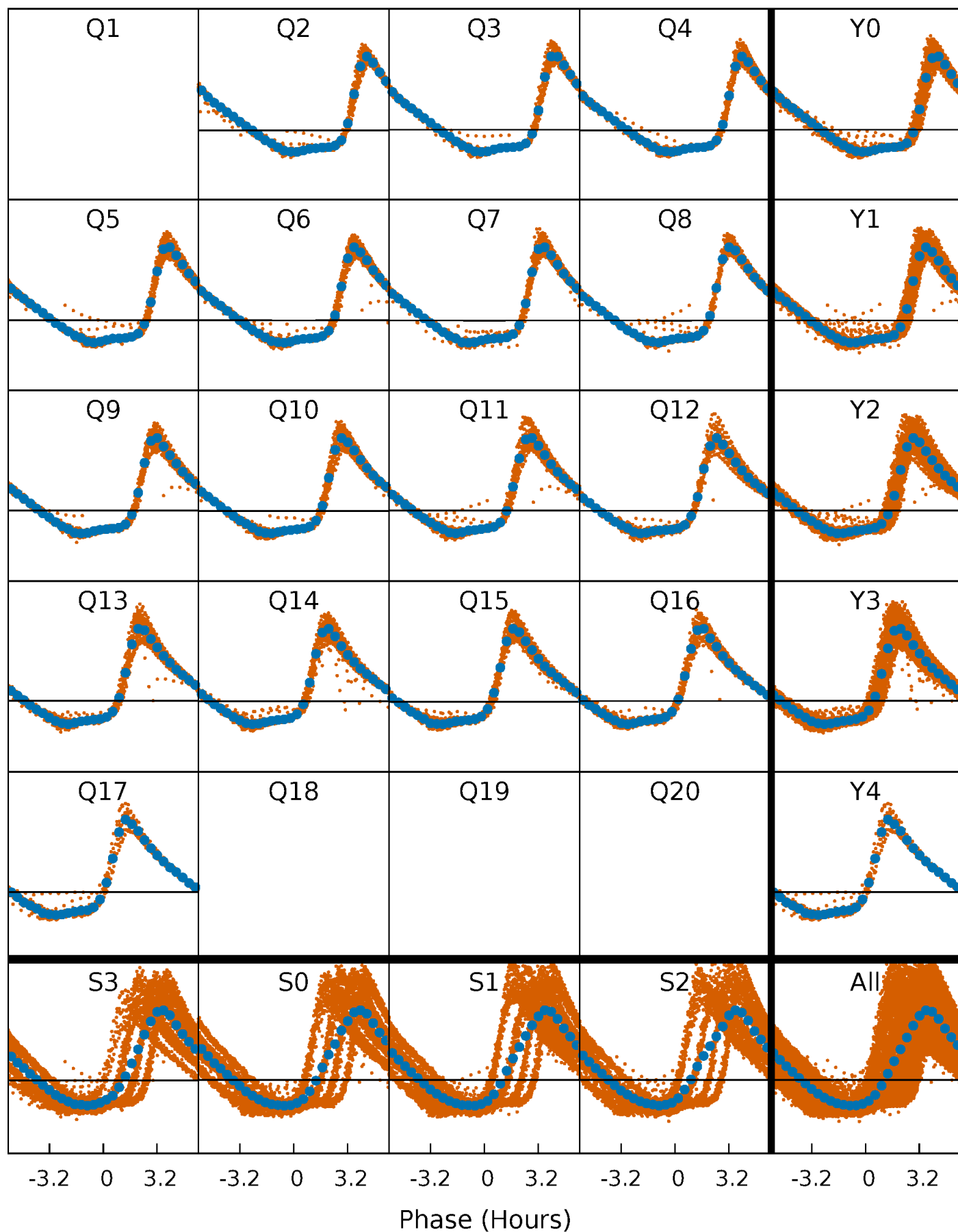
PDC Quarter-Phased Transit Curves

TCE 007505345-01 P= 0.947486 Days $T_0=131.882718$ (BKJD)



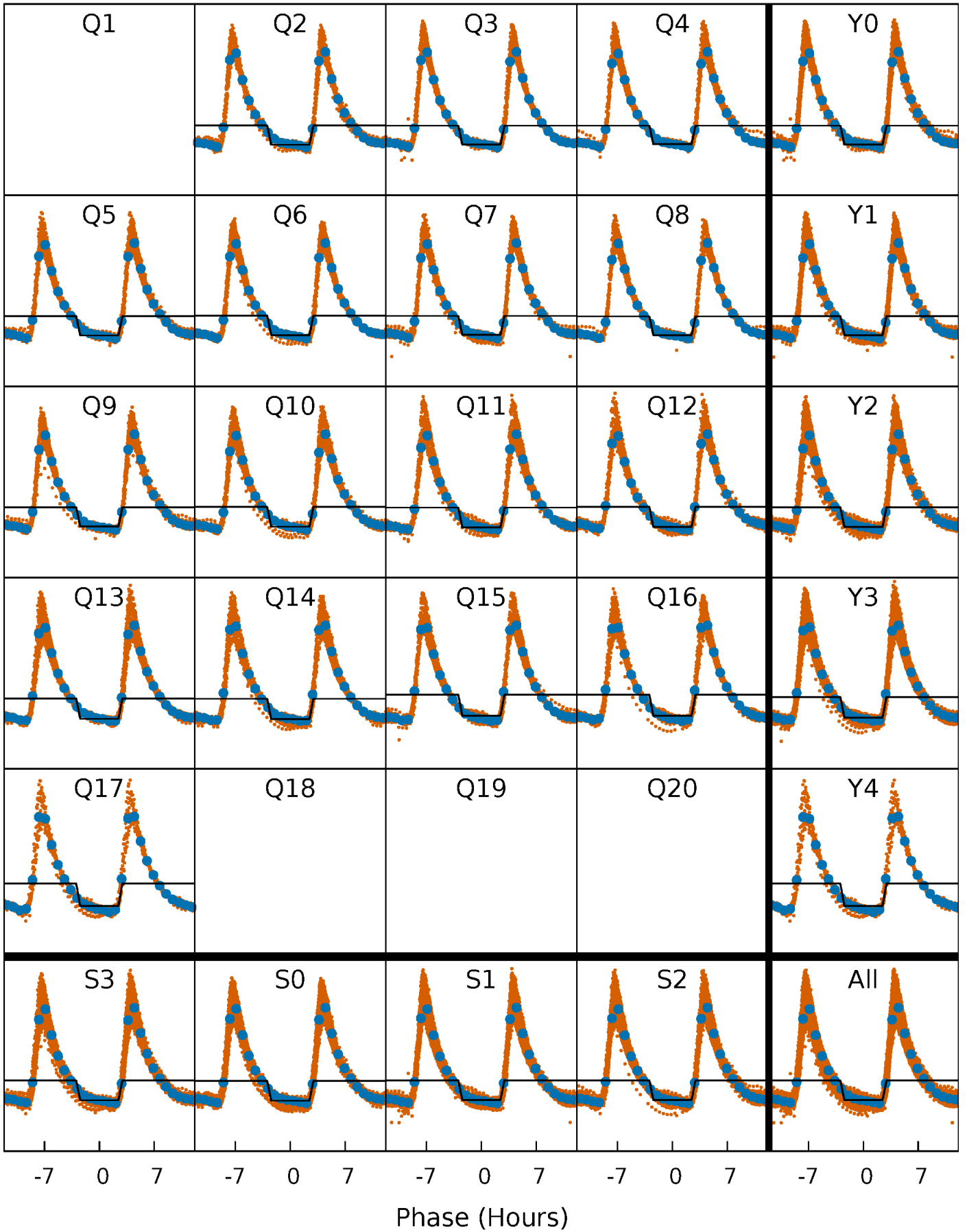
DV Quarter-Phased Transit Curves

TCE 007505345-01 P= 0.947486 Days $T_0=131.882718$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

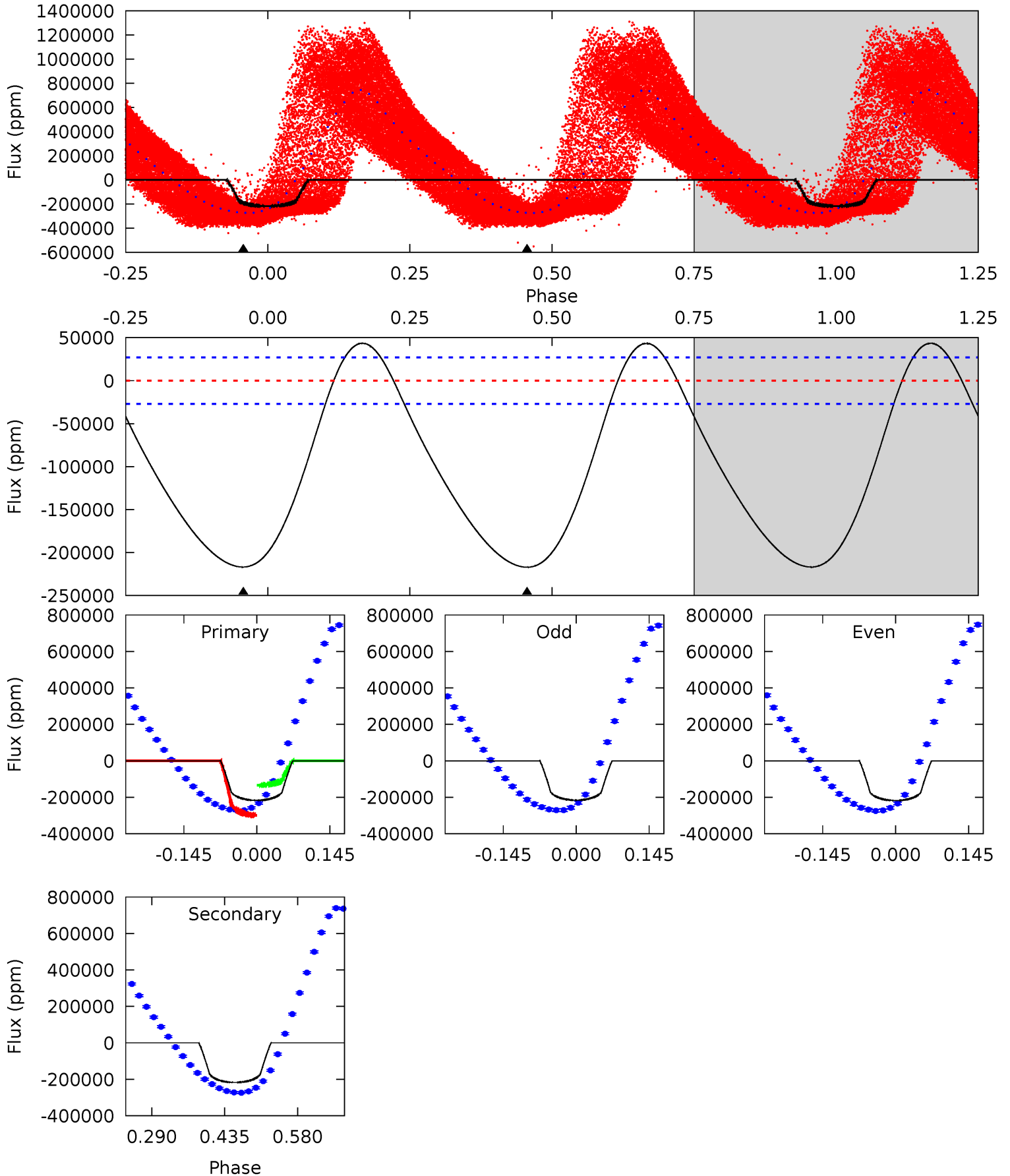
TCE 007505345-01 P= 0.947403 Days $T_0=131.900539$ (BKJD)



DV Model-Shift Uniqueness Test

007505345-01, P = 0.947486 Days, E = 131.882718 Days

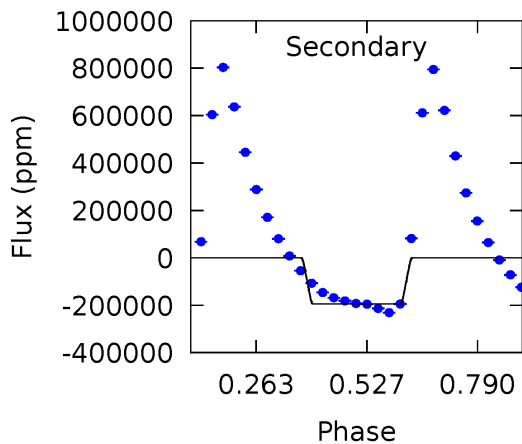
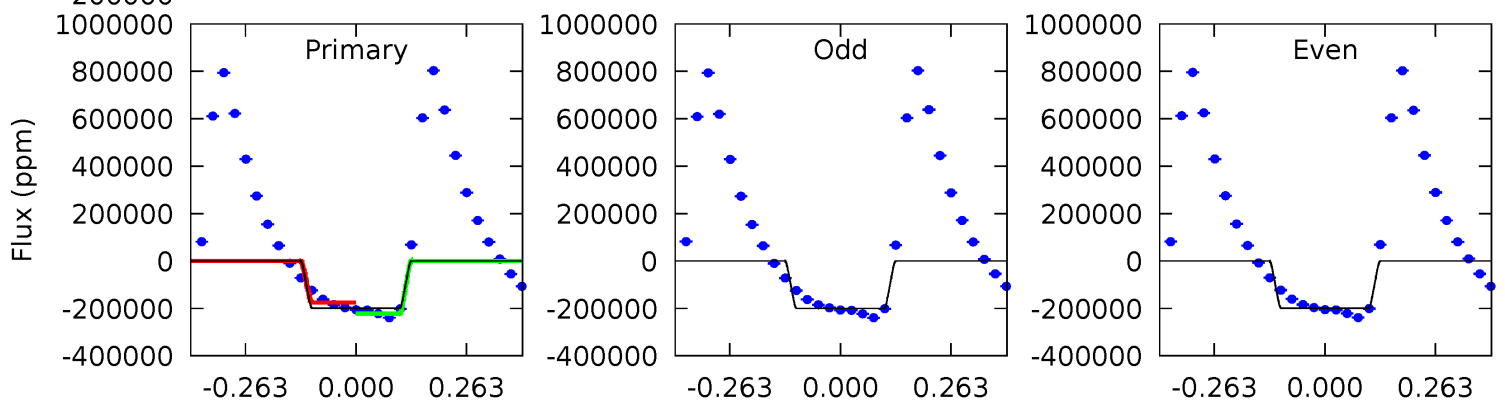
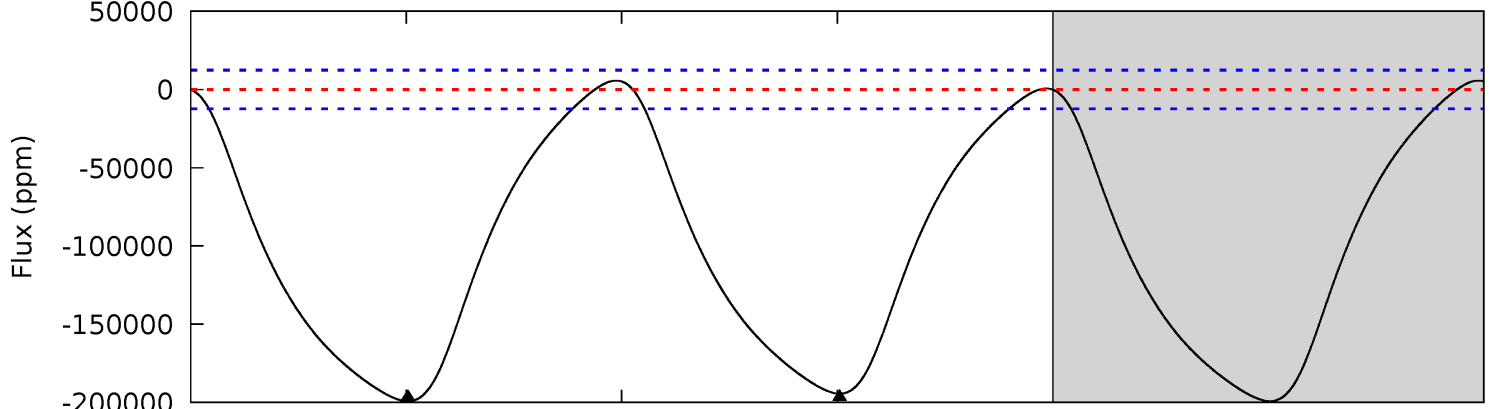
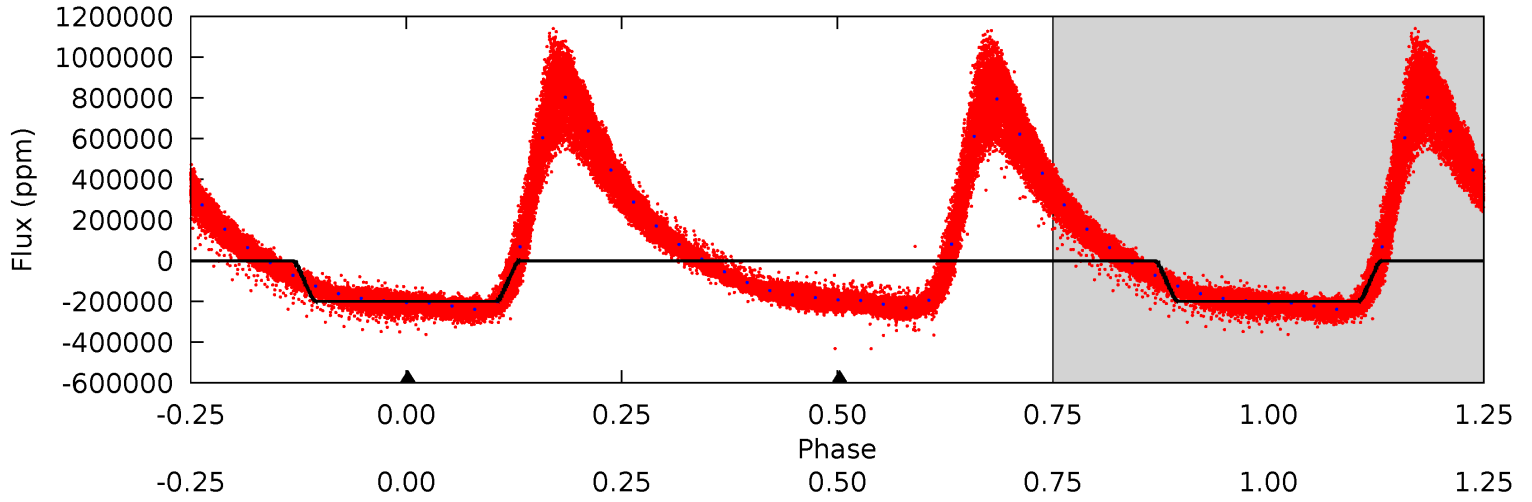
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
36.1	36.2	0	0	4.49	1.46	8.33	36.1	36.1	36.2	36.2	0.18	0.77	0.17	14.7



Alt Model-Shift Uniqueness Test

007505345-01, P = 0.947403 Days, E = 131.900539 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
70.2	68.5	0	0	4.36	1.12	2.18	70.2	70.2	68.5	68.5	0.27	1.01	0.03	9.96



Stellar Parameters For KIC 007505345

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7990^{+223}_{-335}	$3.768^{+0.450}_{-0.075}$	$-0.420^{+0.200}_{-0.300}$	$2.982^{+0.260}_{-1.387}$	$1.901^{+0.055}_{-0.491}$	$0.101^{+0.453}_{-0.025}$
	+3%/-4%	+12%/-2%	+48%/-71%	+9%/-47%	+3%/-26%	+448%/-25%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007505345-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-217048 ± 6004	$41.36^{+50.83}_{-28.76}$	5354^{+375}_{-645}	$23902^{+134592}_{-12682}$	46^{+466}_{-37}
Alt.	-194391 ± 2839	$126.73^{+78.15}_{-63.37}$	5402^{+337}_{-672}	8377^{+4977}_{-1969}	$4.373^{+12.727}_{-2.703}$

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 $A_{obs} \gg 1.0$

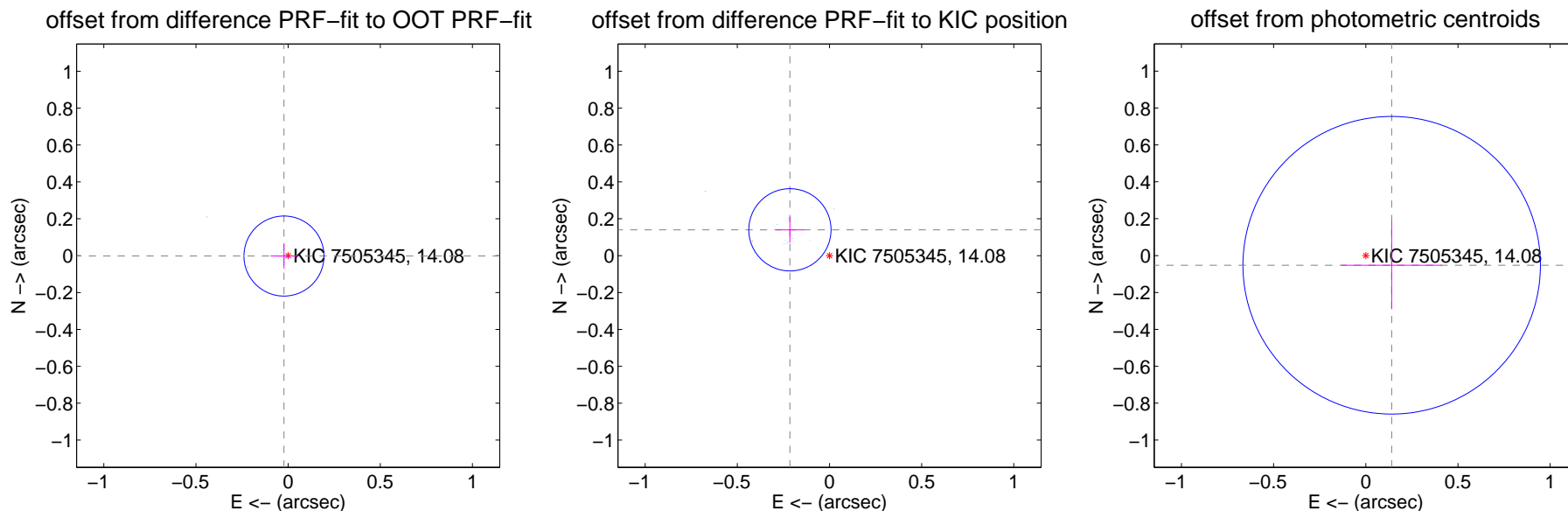
DV Centroid Data

Supplemental centroid analysis for 007505345-01. Kepler magnitude: 14.08. Transit SNR 0.22

There are 14 quarters with good PRF difference image offsets

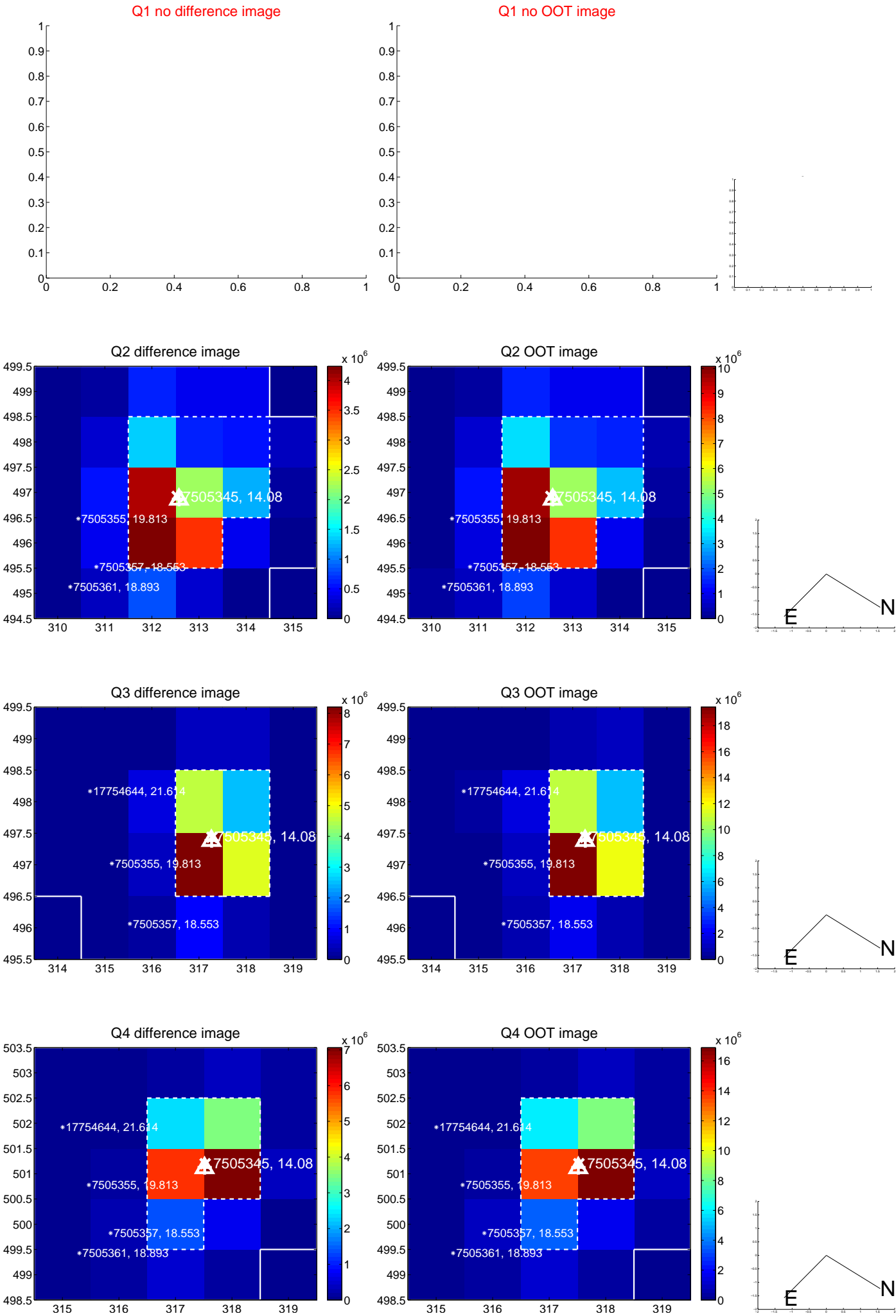
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.023 ± 0.072	0.31	0.023 ± 0.073	-0.002 ± 0.068
PRF-fit source offset from KIC position	0.256 ± 0.074	3.45	0.215 ± 0.076	0.140 ± 0.070
photometric centroid source offset	0.15 ± 0.27	0.56	-0.14 ± 0.27	-0.05 ± 0.24

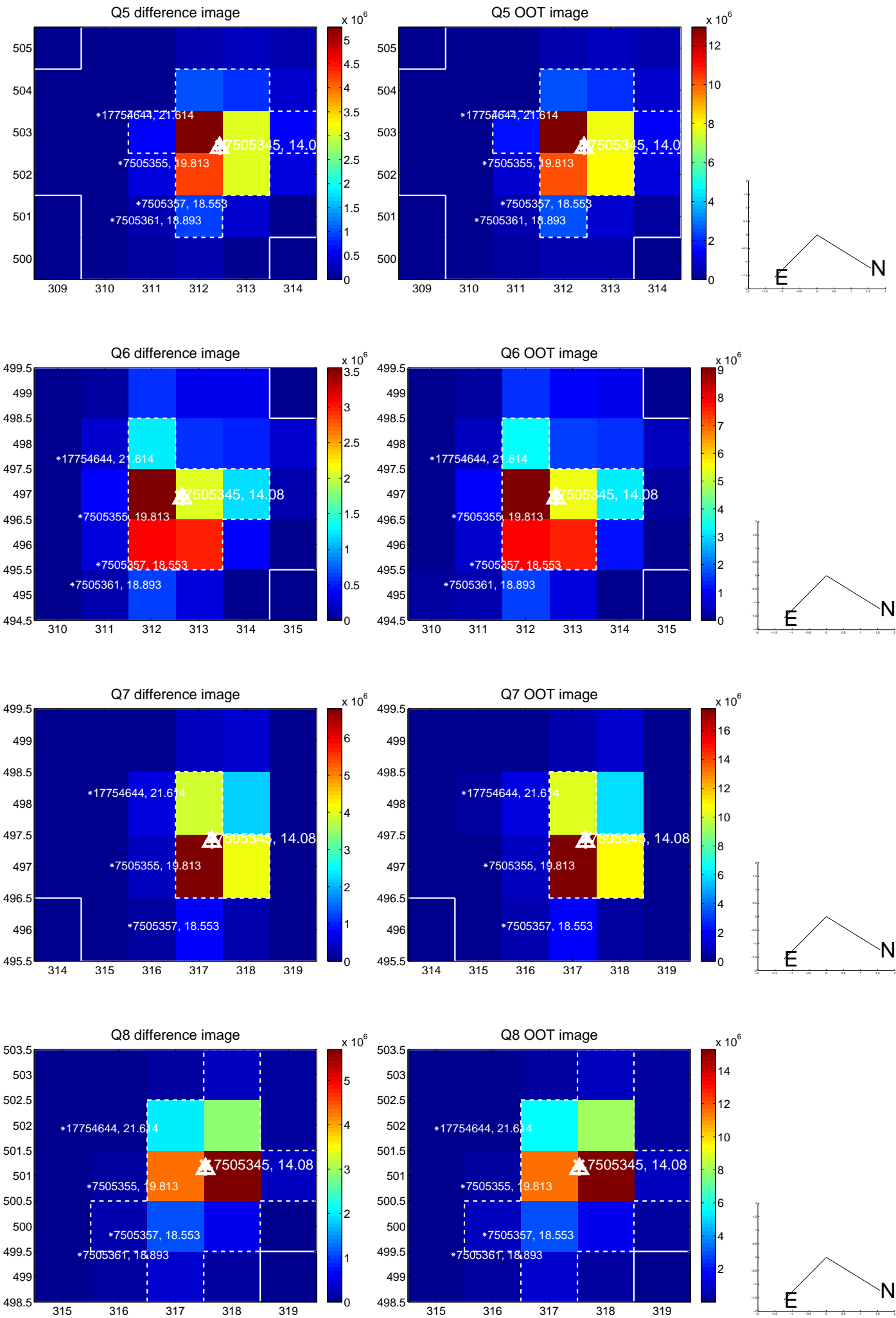


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

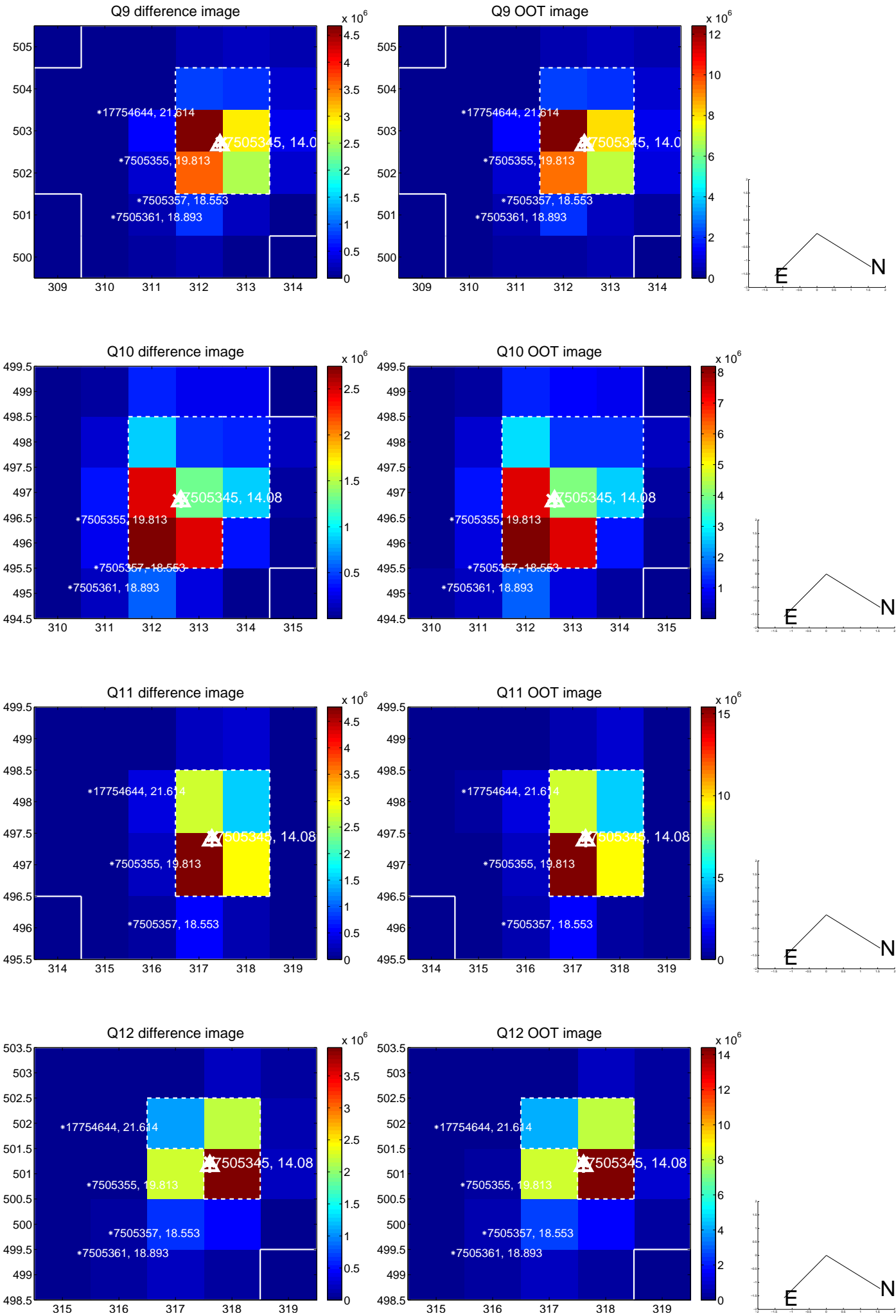
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



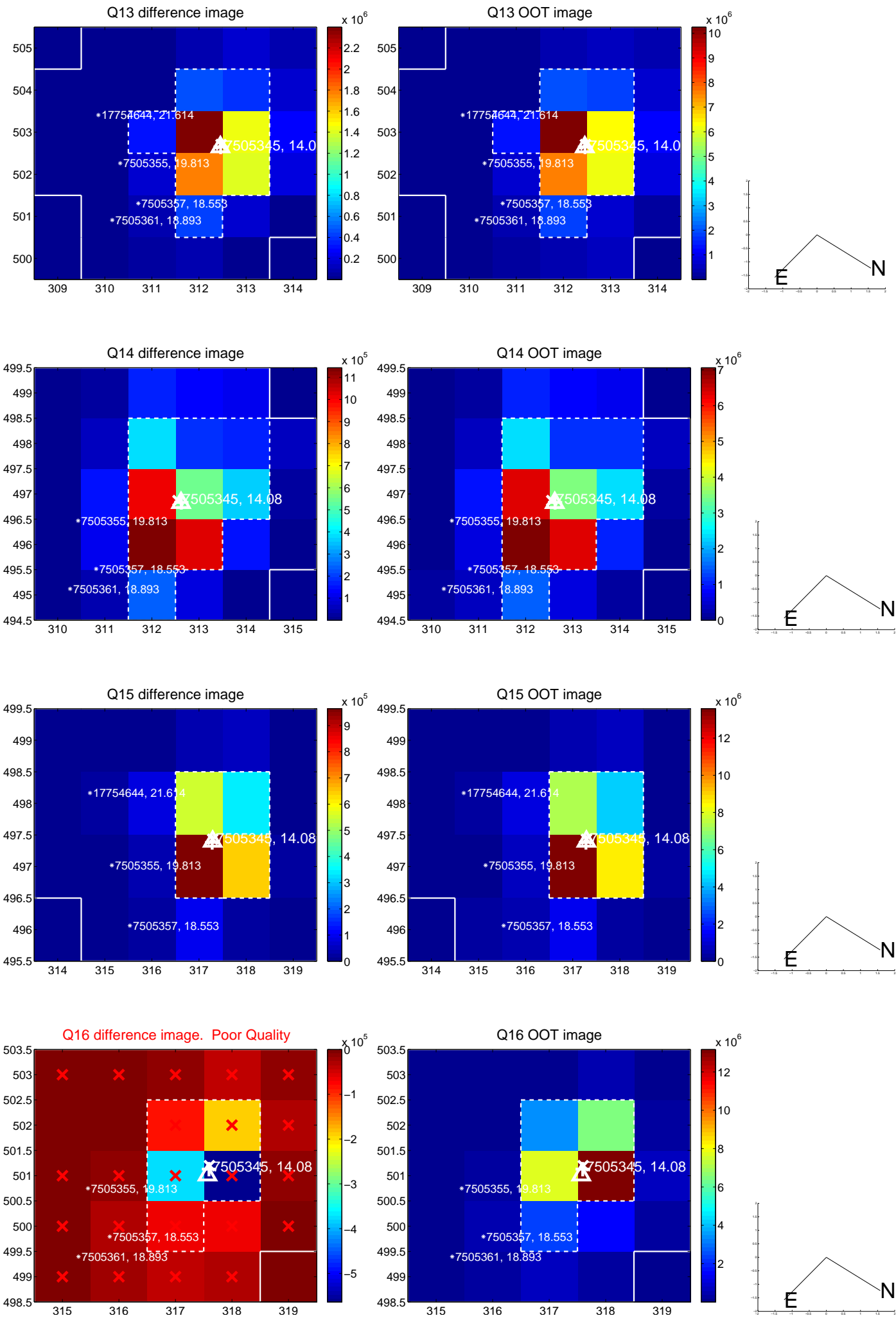
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



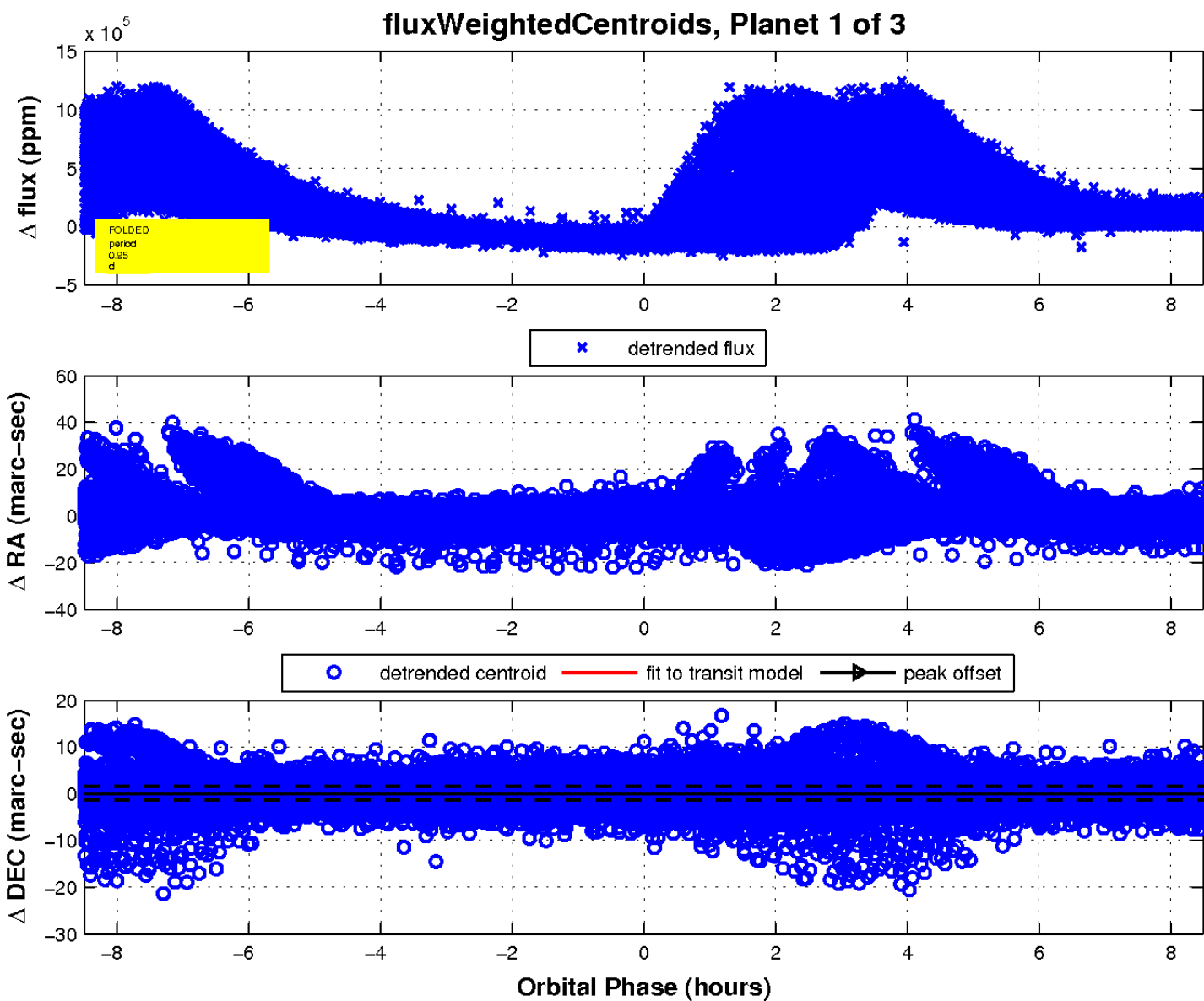
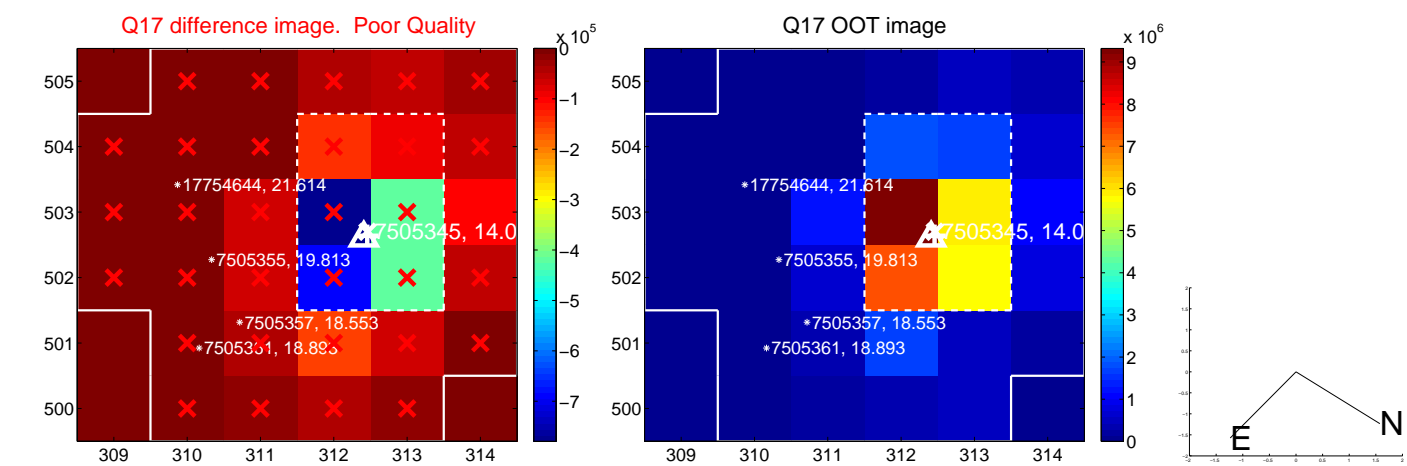
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

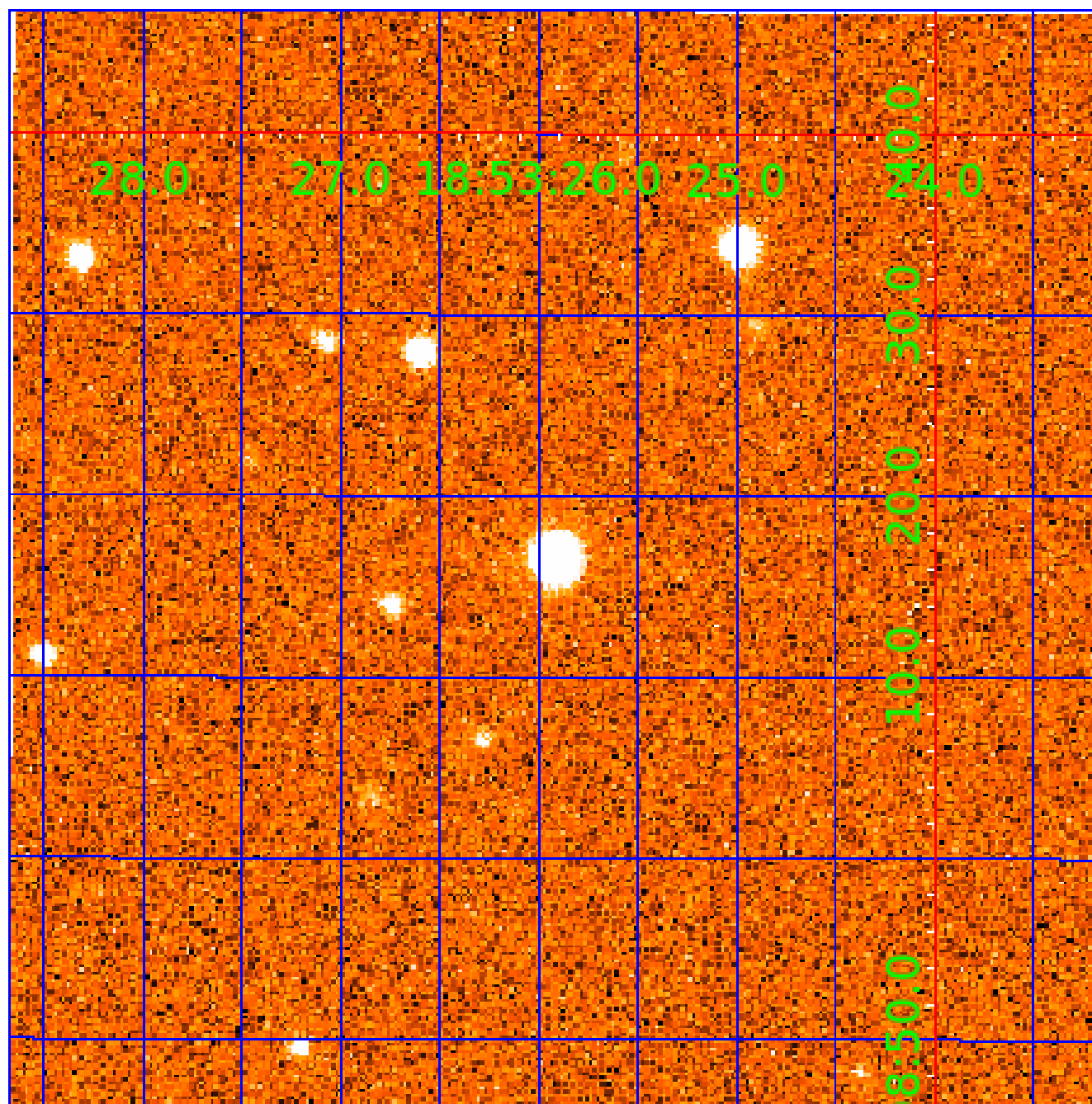


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007505345

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})
007505345-01	OBS	No	0.947486	131.882718	251.4	2.833	234.4	0.2	2.98	7990	4.85	59336.66
007505345-02	OBS	No	0.948667	131.636584	580.2	1.150	186.3	0.5	2.98	7990	7.79	59238.13
007505345-03	OBS	No	0.947405	131.507027	967.2	3.000	93.0	-1.0	2.98	7990	9.38	59343.35

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007505345-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT
007505345-02	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—HALO_GHOST
007505345-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

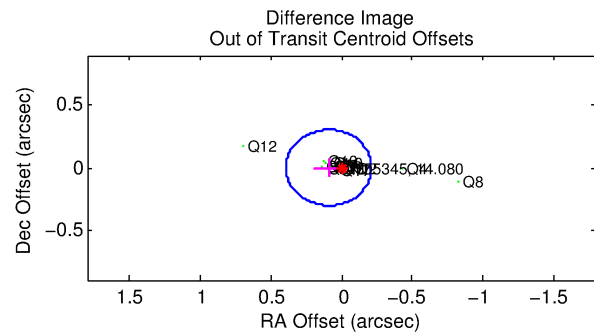
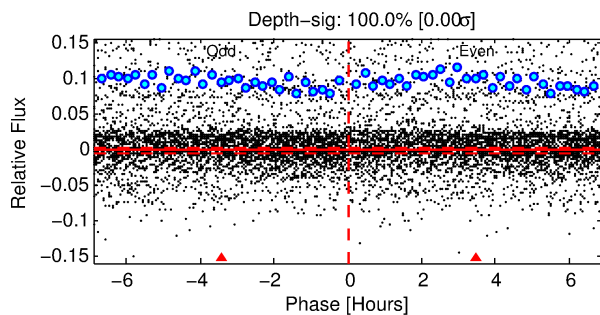
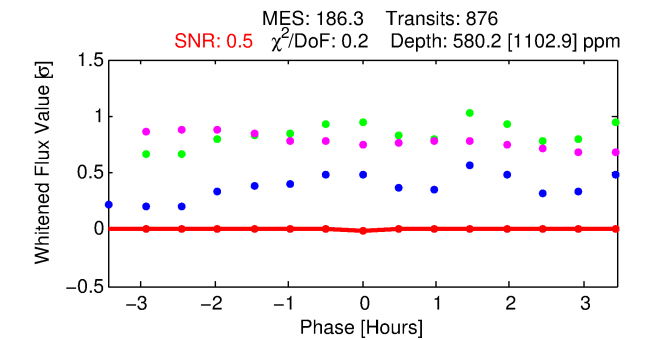
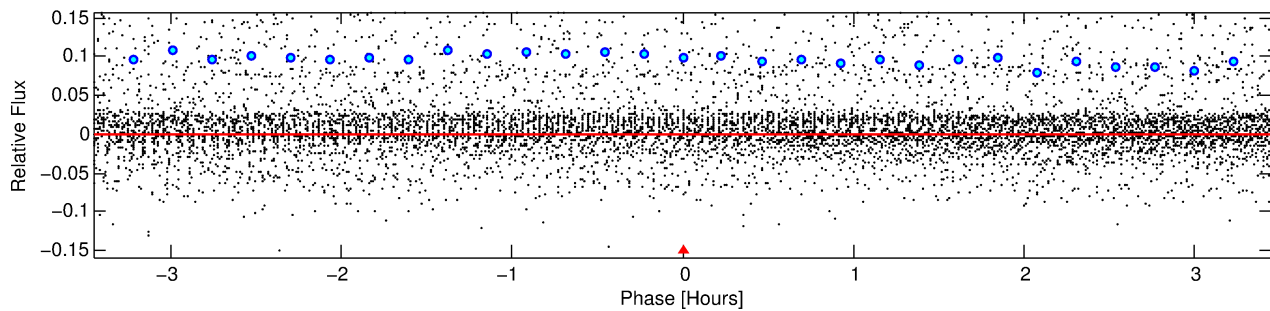
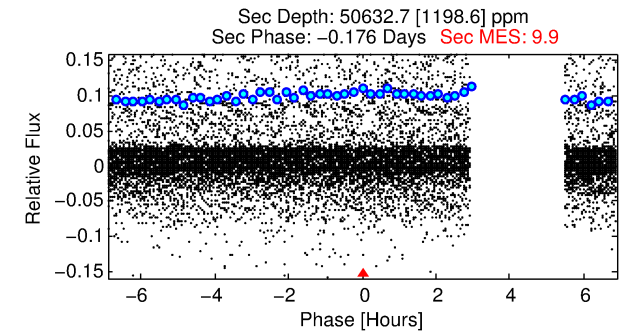
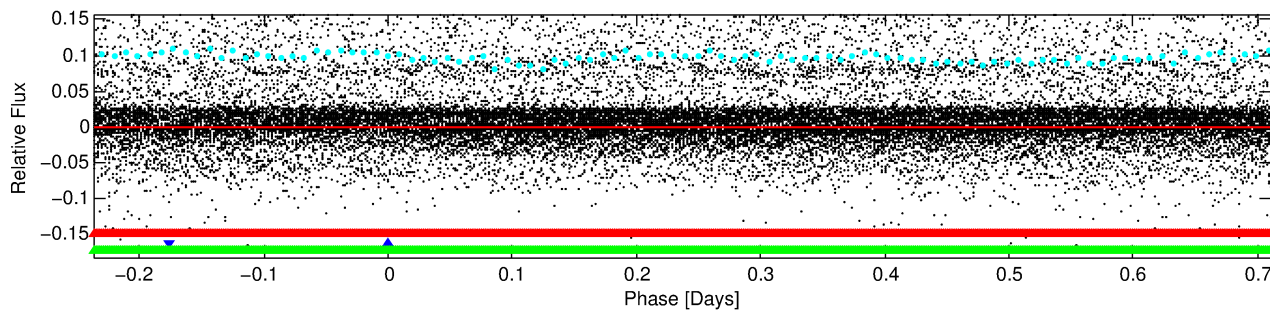
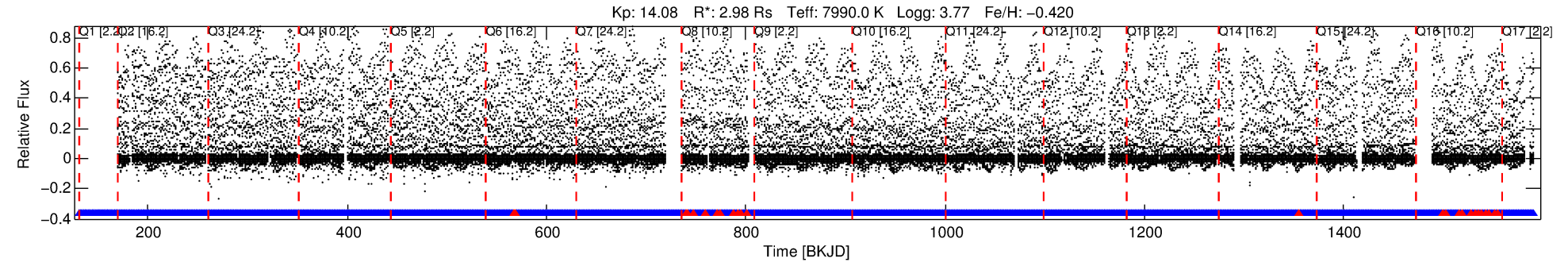
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007505345-02

No Significant Match Found

DV One-Page Summary

KIC: 7505345 Candidate: 2 of 3 Period: 0.949 d



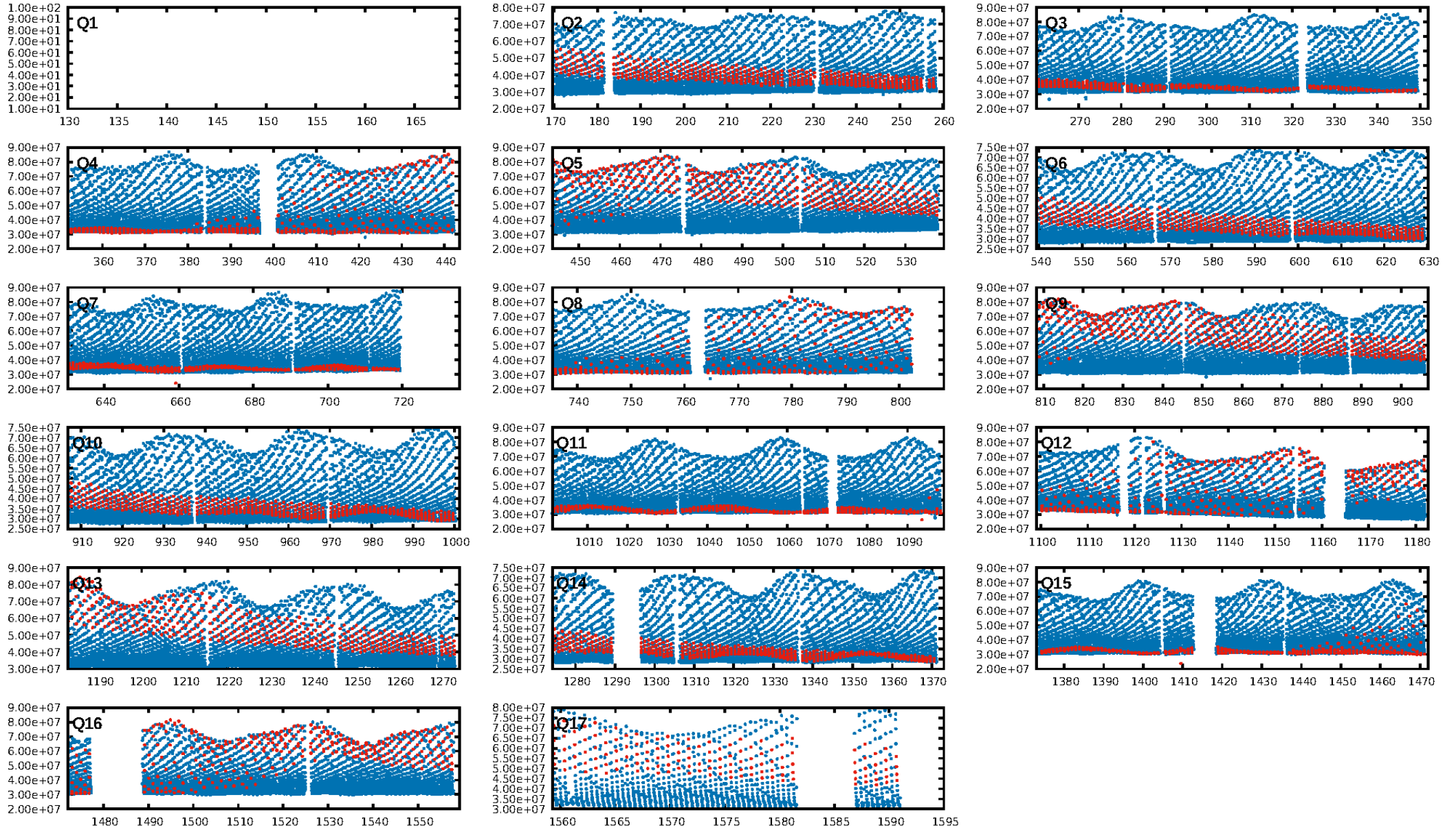
DV Fit Results:

Period = 0.94867 [0.00012] d
Epoch = 131.6366 [0.0119] BKJD
Rp/R* = 0.0239 [0.0776]
a/R* = 4.63 [78.23]
b = 0.73 [11.73]
Seff = 59238.13 [45941.02]
Teff = 3978 [771] K
Rp = 7.79 [25.50] Re
a = 0.0234 [0.0109] AU
Ag = 251.55 [1640.81] [0.15σ]
Teffp = 24495 [39686] K [0.52σ]

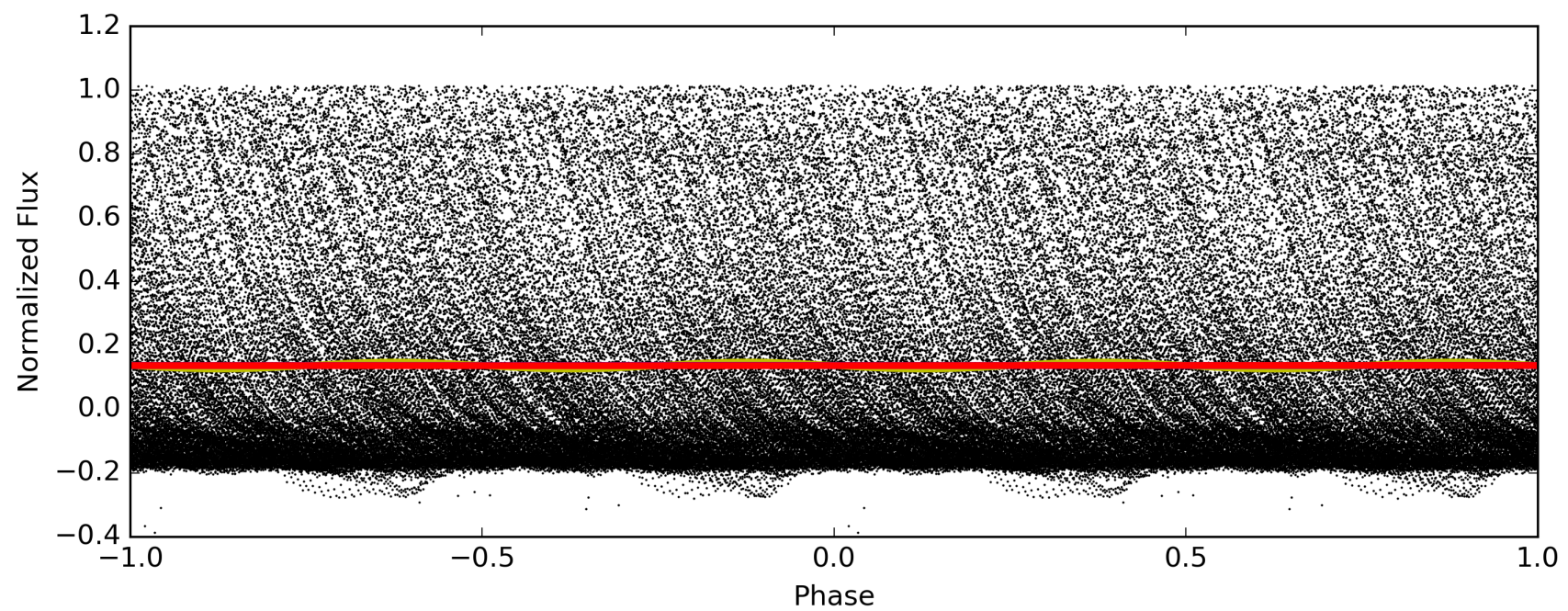
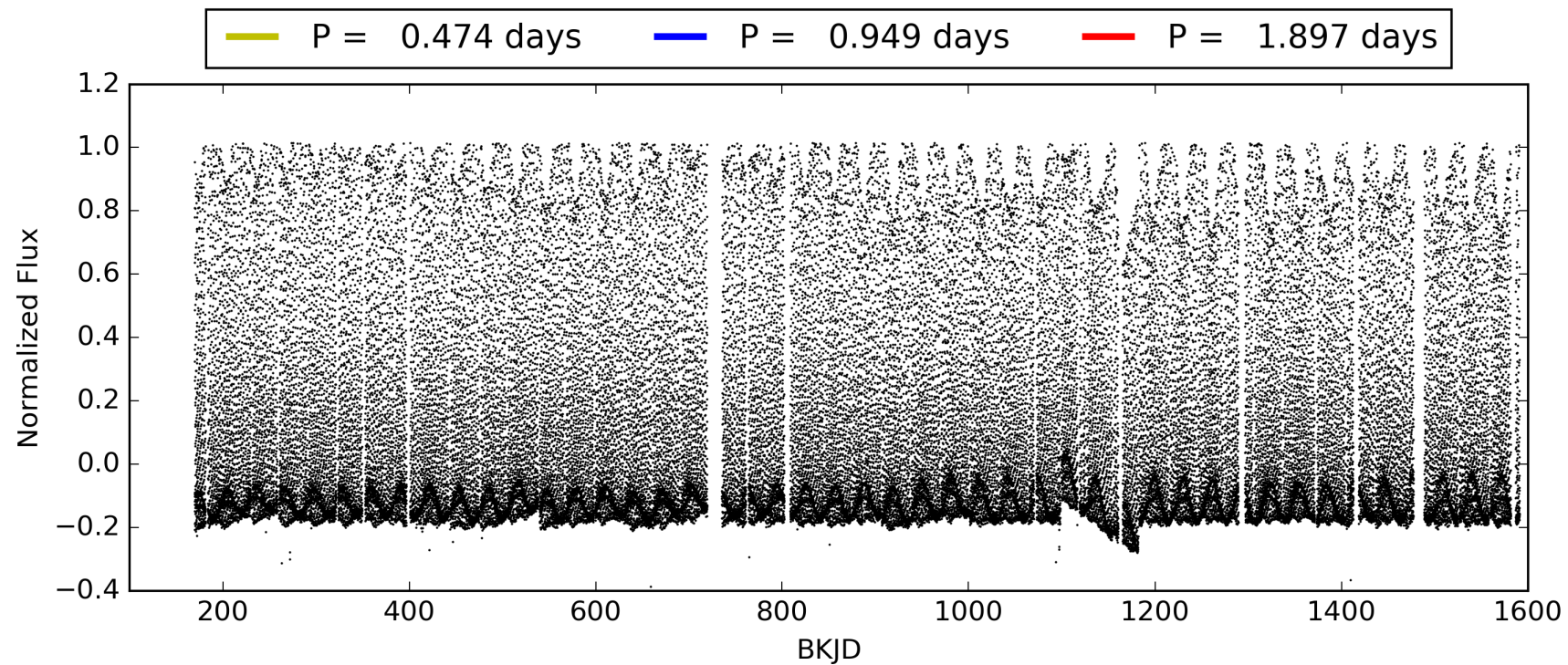
DV Diagnostic Results:

ShortPeriod-sig: 0.7% [0.01σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.97 [821/847]
GhostDiagnostic-chr: -0.1219
Centroid-sig: N/A
Centroid-so: 0.645 arcsec [3.68σ]
OotOffset-rm: 0.092 arcsec [0.91σ]
KicOffset-rm: 0.307 arcsec [3.01σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.62 [10/16]
DiffImageOverlap-fno: 0.00 [0/16]

TCE 007505345-02, PDC Light Curves

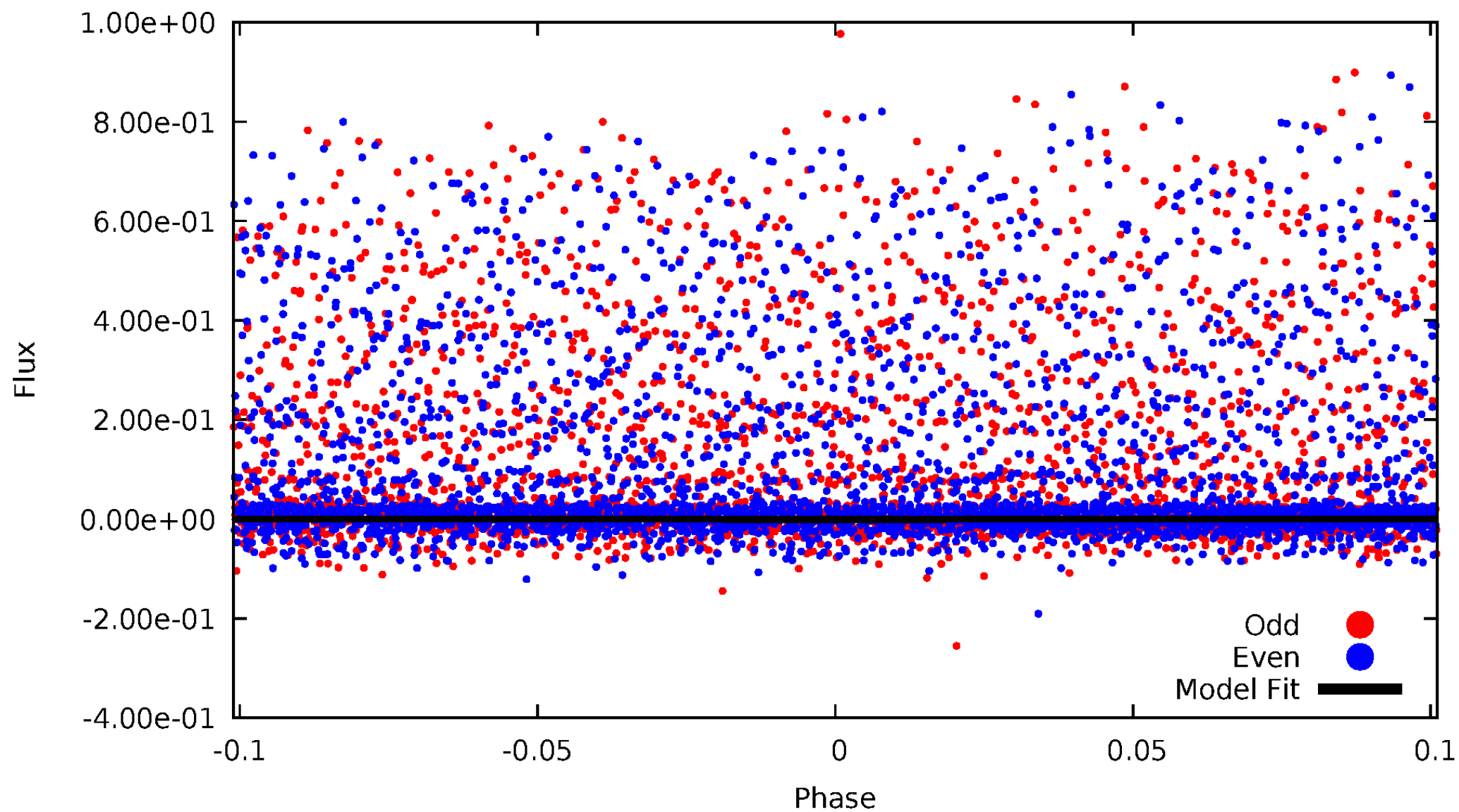


TCE 007505345-02



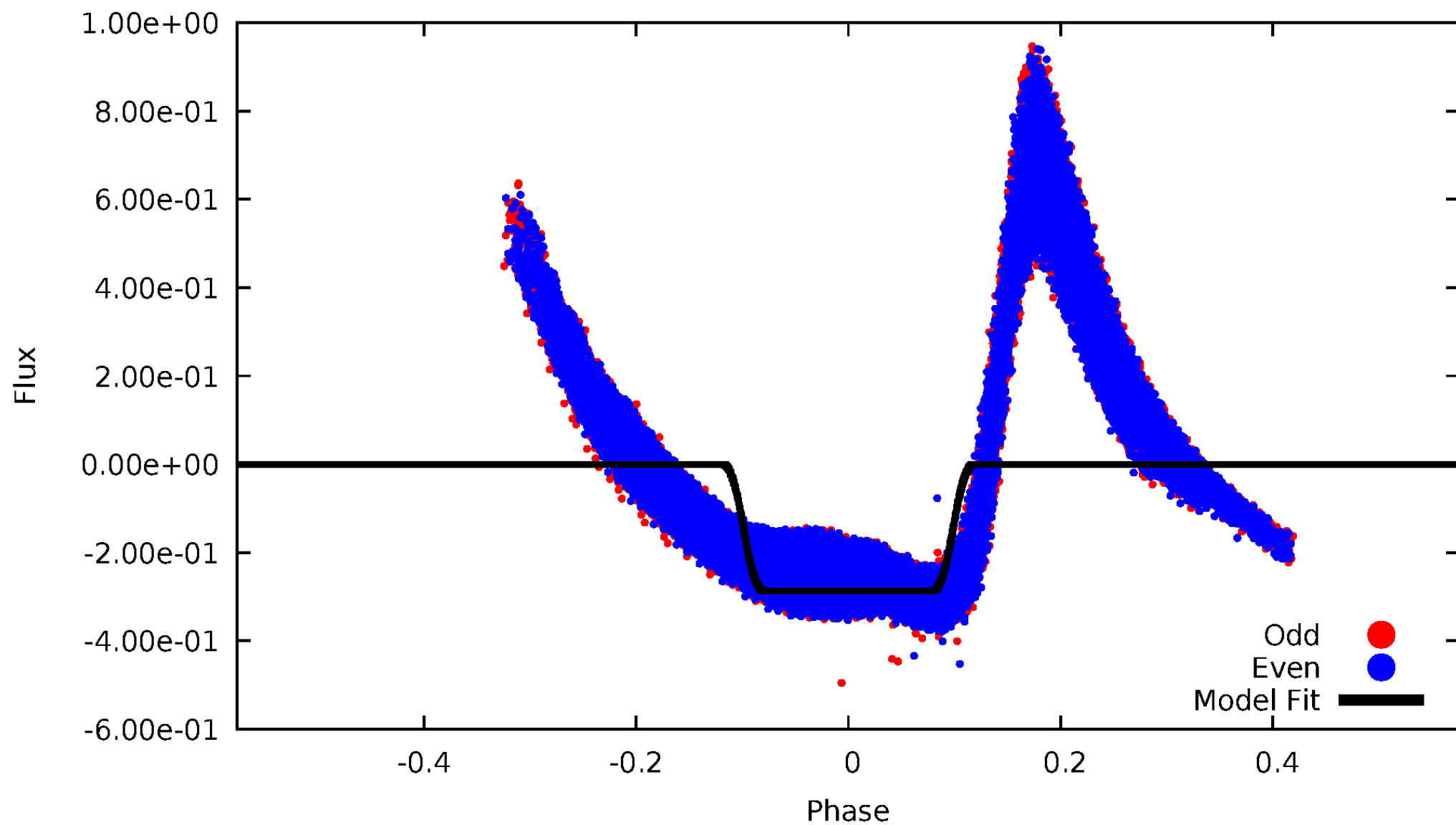
DV Odd/Even

TCE 007505345-02



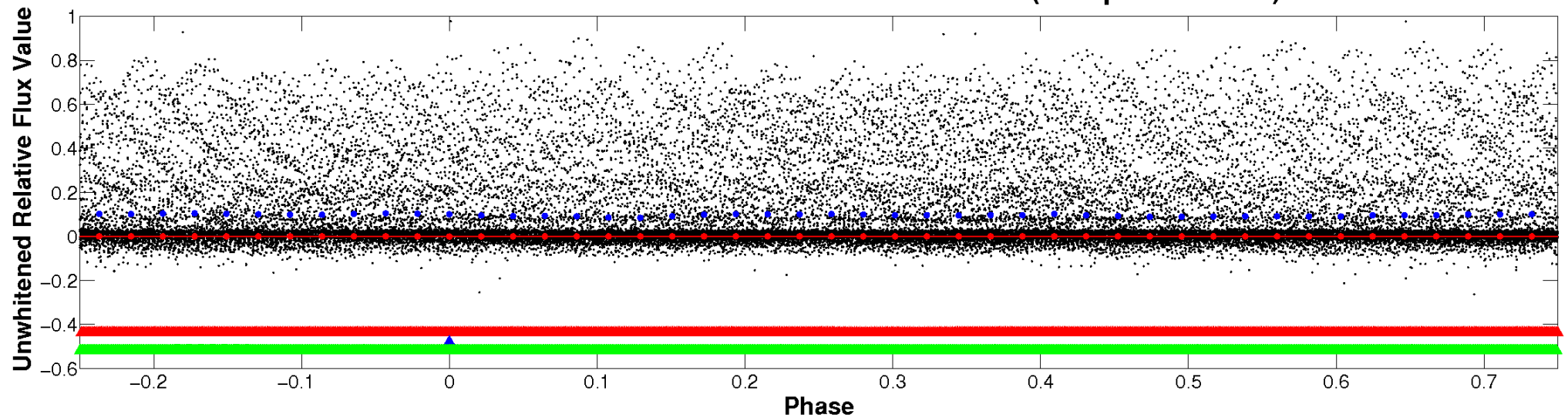
ALT Odd/Even

TCE 007505345-02

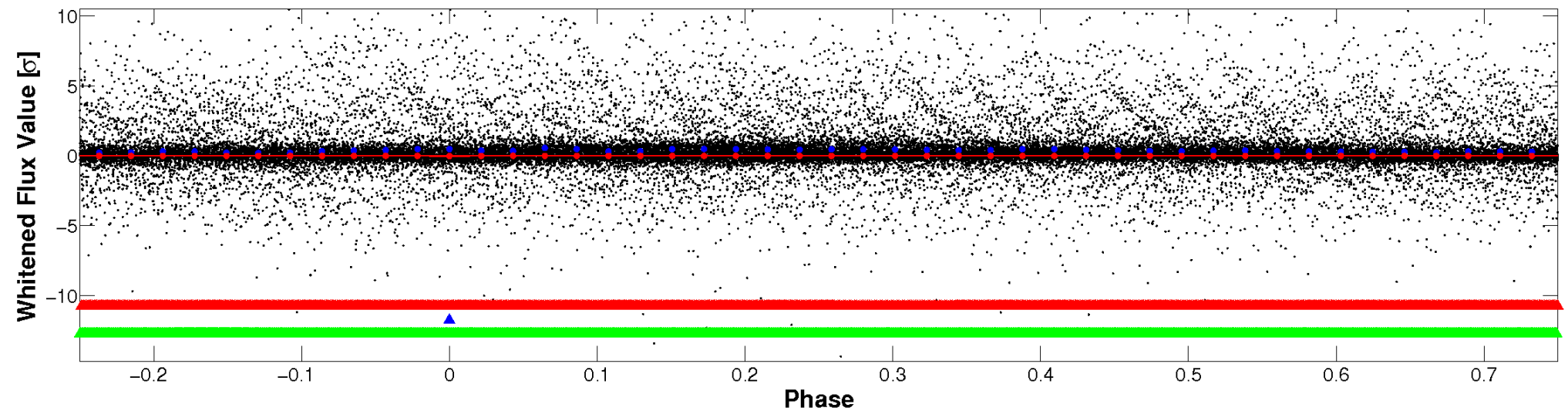


Non-Whitened Vs. Whitened Light Curve

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

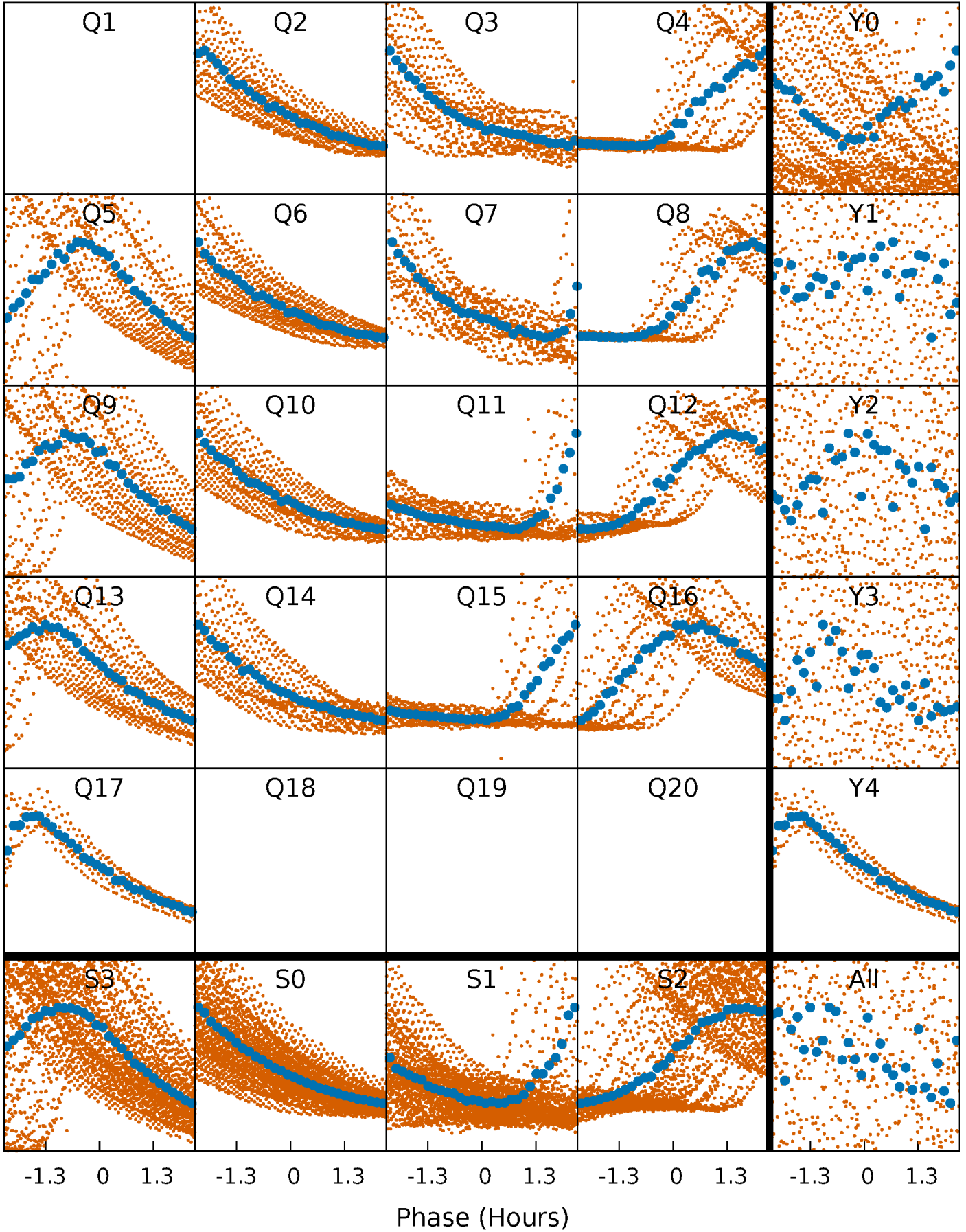


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



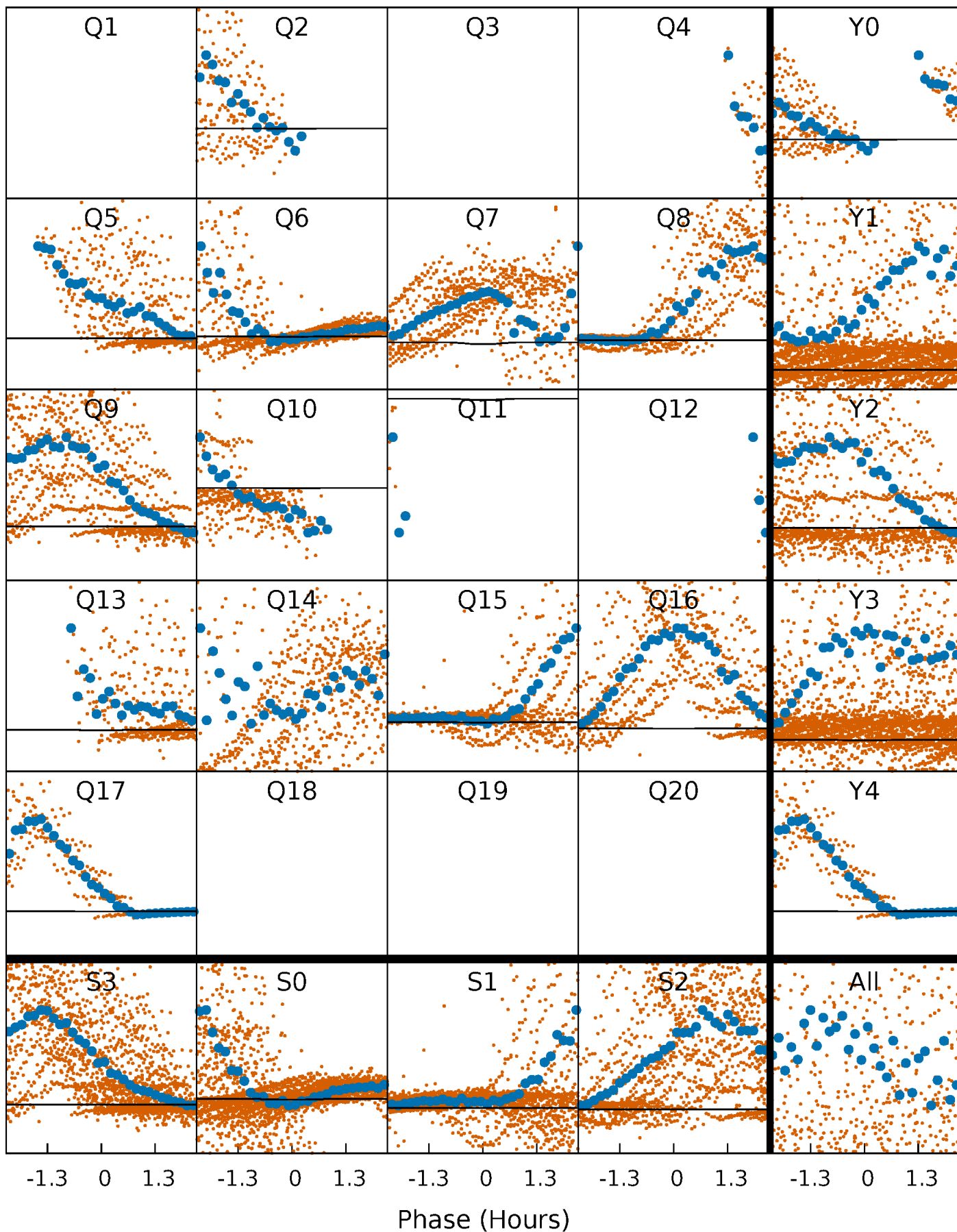
PDC Quarter-Phased Transit Curves

TCE 007505345-02 P= 0.948667 Days $T_0=131.636584$ (BKJD)



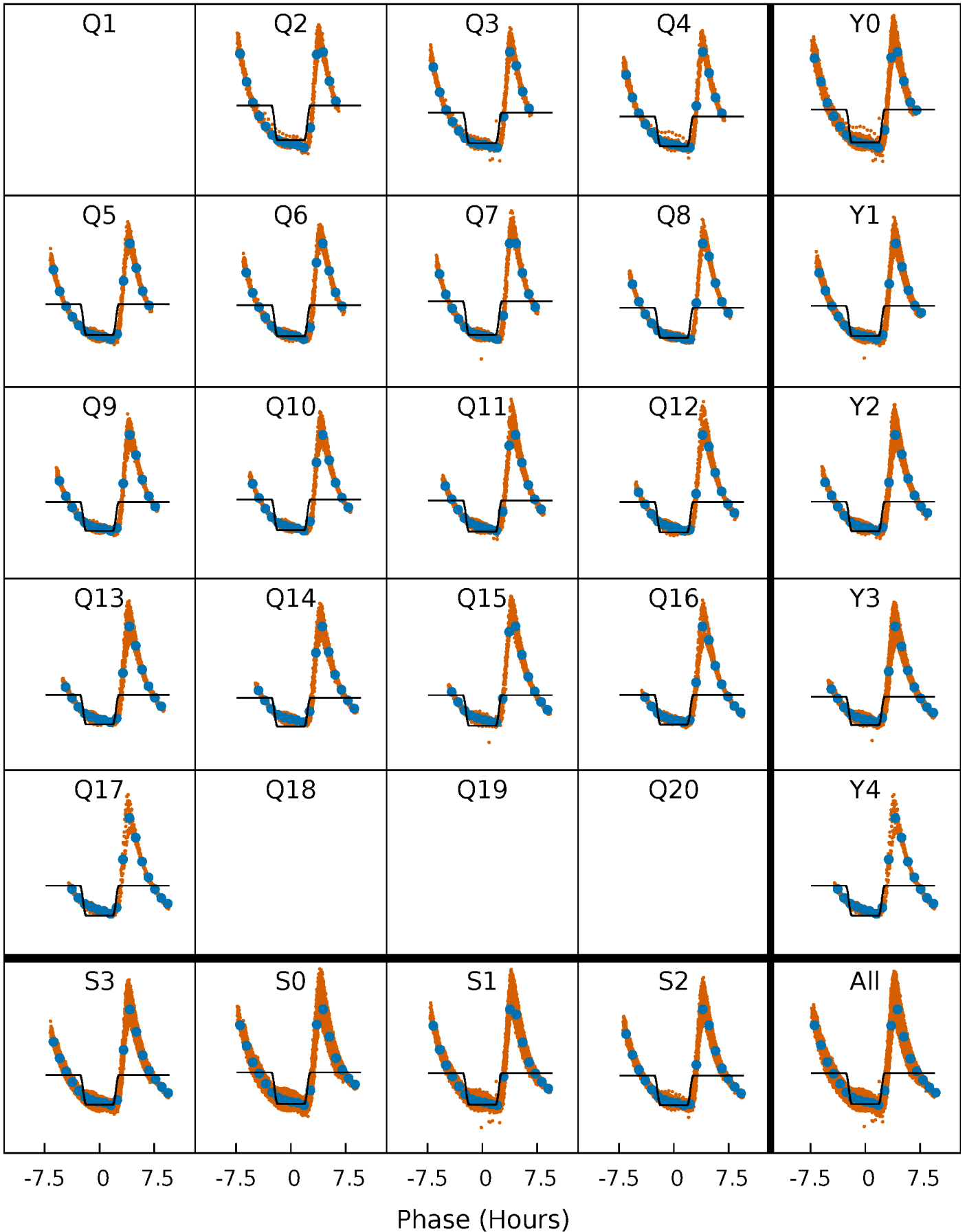
DV Quarter-Phased Transit Curves

TCE 007505345-02 P= 0.948667 Days $T_0=131.636584$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

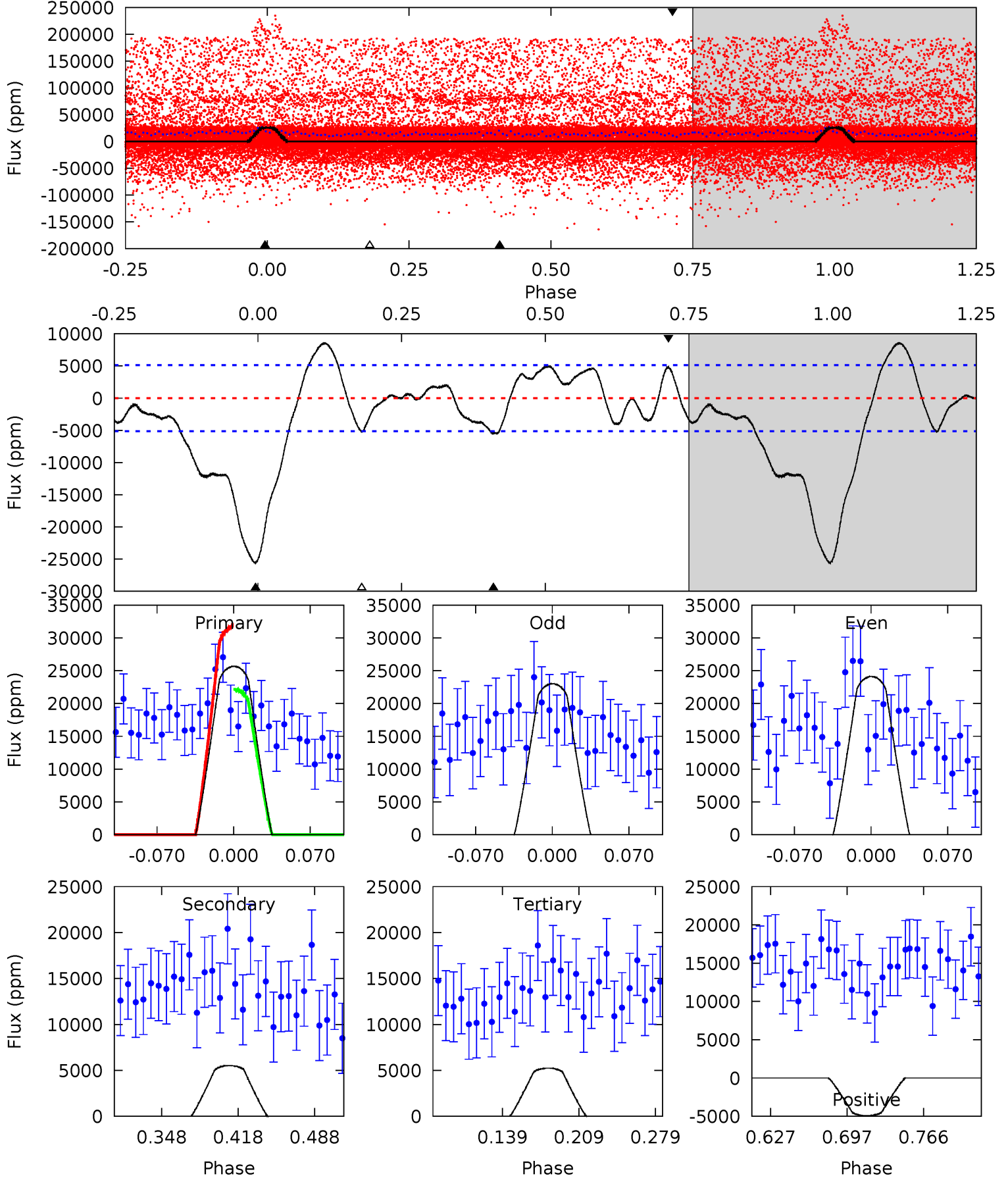
TCE 007505345-02 P= 0.947396 Days $T_0=132.381601$ (BKJD)



DV Model-Shift Uniqueness Test

007505345-02, P = 0.948667 Days, E = 131.636584 Days

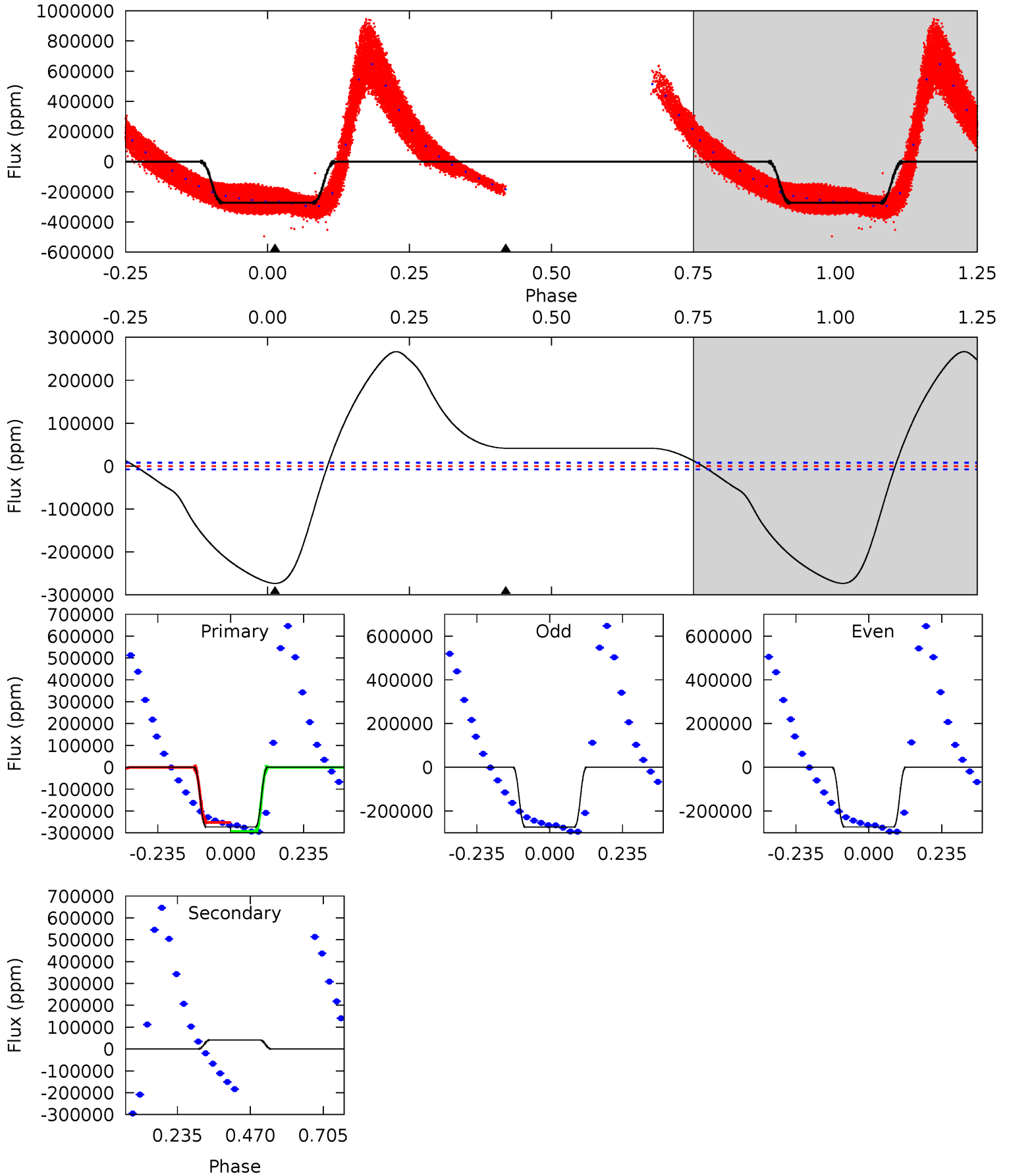
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.2	4.99	4.74	4.45	4.64	1.81	3.94	18.5	18.8	0.25	0.55	0.52	6.02	0.25	4.48



Alt Model-Shift Uniqueness Test

007505345-02, P = 0.947396 Days, E = 132.381601 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
156.4	-23.8	0	0	4.38	1.19	12.3	156.4	156.4	-23.8	-23.8	0.09	1.01	0.49	6.31



Stellar Parameters For KIC 007505345

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7990^{+223}_{-335}	$3.768^{+0.450}_{-0.075}$	$-0.420^{+0.200}_{-0.300}$	$2.982^{+0.260}_{-1.387}$	$1.901^{+0.055}_{-0.491}$	$0.101^{+0.453}_{-0.025}$
	+3%/-4%	+12%/-2%	+48%/-71%	+9%/-47%	+3%/-26%	+448%/-25%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007505345-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-5519 ± 1105	$18.44^{+19.04}_{-13.05}$	5411^{+364}_{-673}	8497^{+16418}_{-2909}	$4.733^{+47.153}_{-3.586}$
Alt.	41581 ± 1747	$159.78^{+34.19}_{-40.95}$	5415^{+349}_{-650}	-5452^{+317}_{-295}	$-0.454^{+0.137}_{-0.328}$

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 $A_{obs} \gg 1.0$

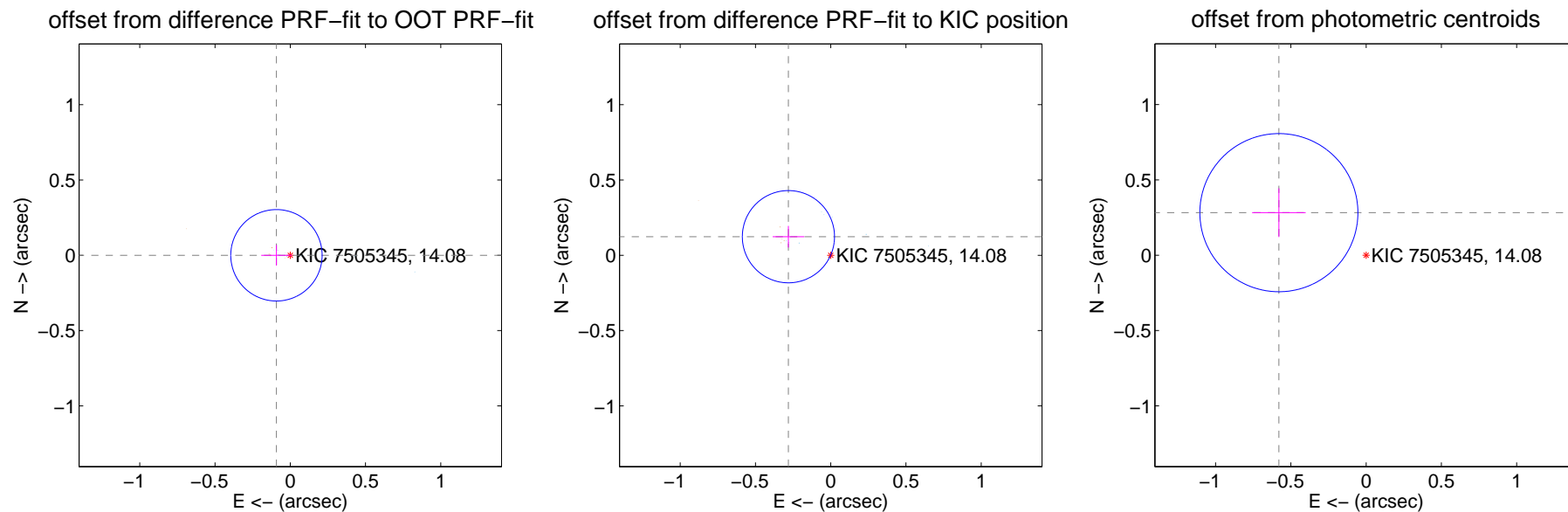
DV Centroid Data

Supplemental centroid analysis for 007505345-02. Kepler magnitude: 14.08. Transit SNR 0.50

There are 10 quarters with good PRF difference image offsets

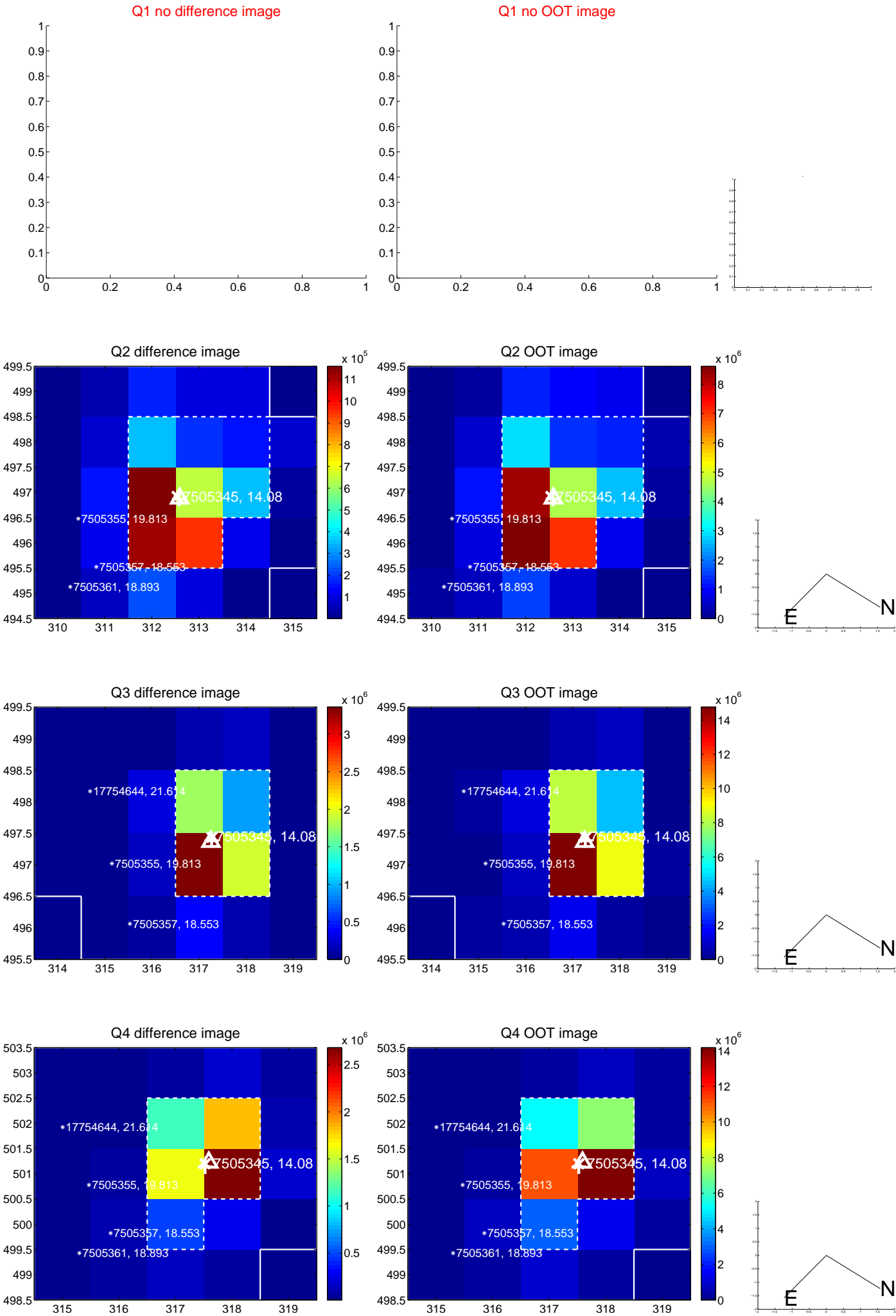
The direct PRF centroid is offset from the target star catalog position by about 0.25 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.092 ± 0.101	0.91	0.092 ± 0.101	-0.000 ± 0.068
PRF-fit source offset from KIC position	0.307 ± 0.102	3.01	0.281 ± 0.104	0.123 ± 0.072
photometric centroid source offset	0.64 ± 0.17	3.68	0.58 ± 0.18	0.28 ± 0.16

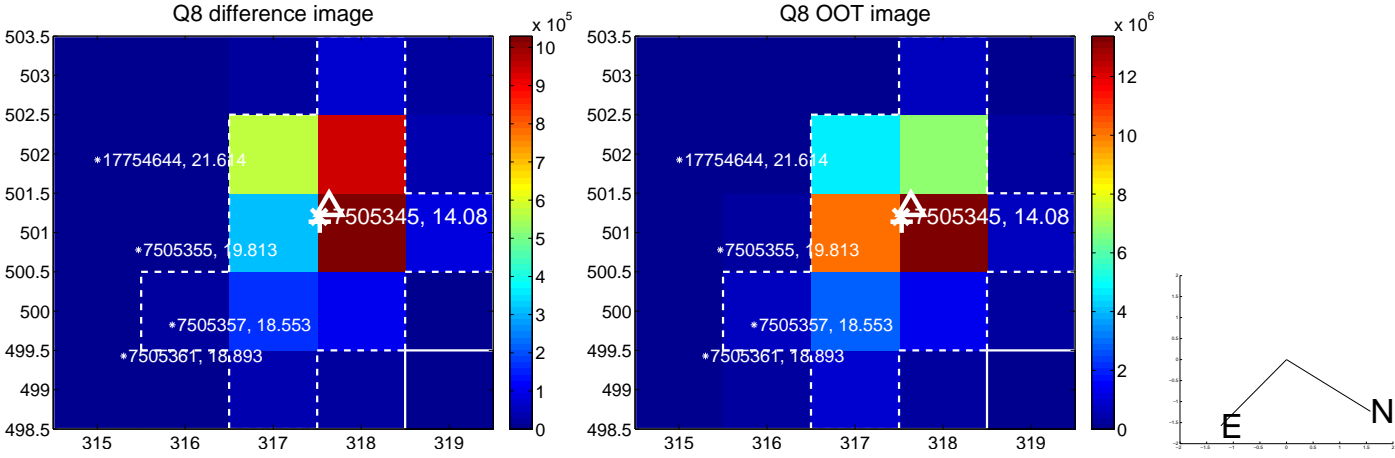
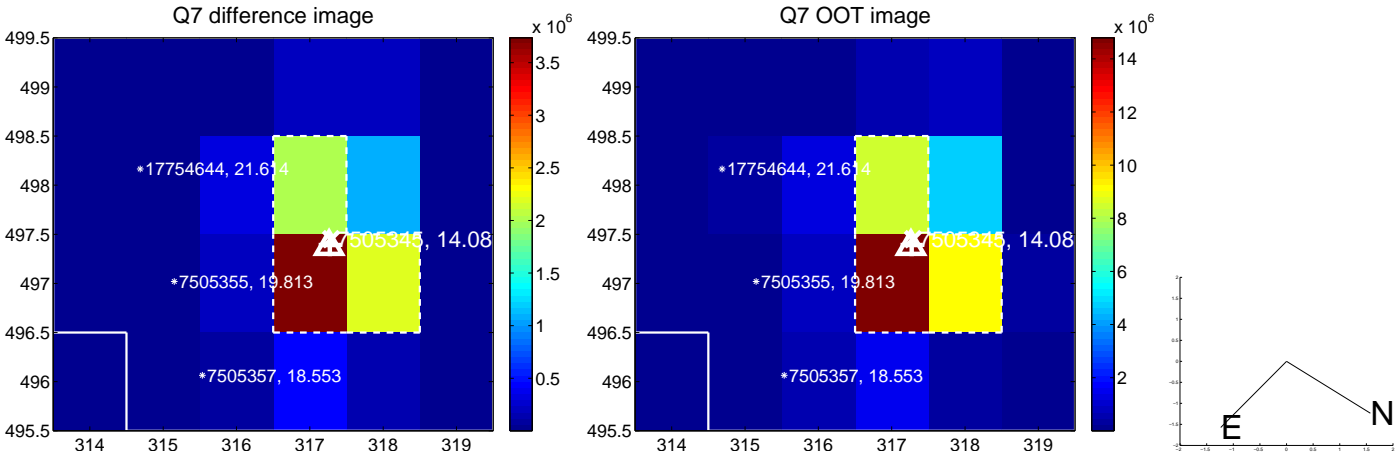
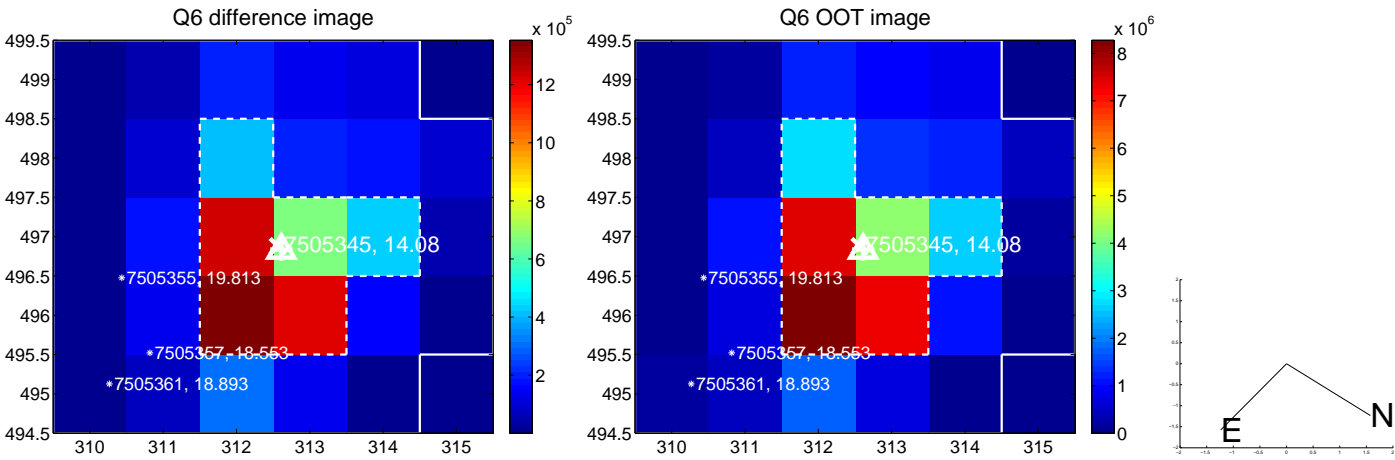
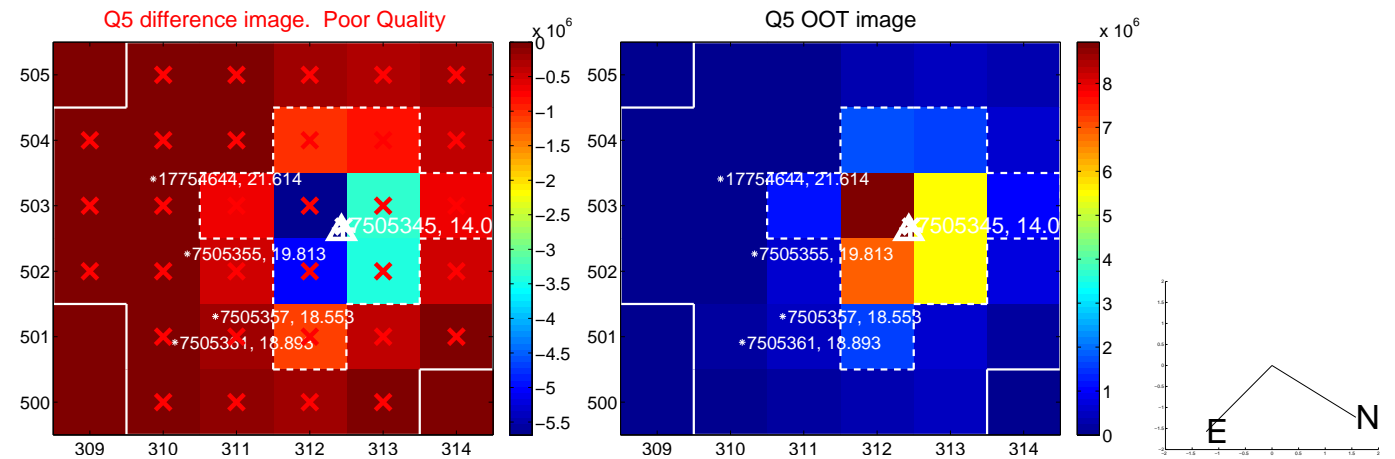


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

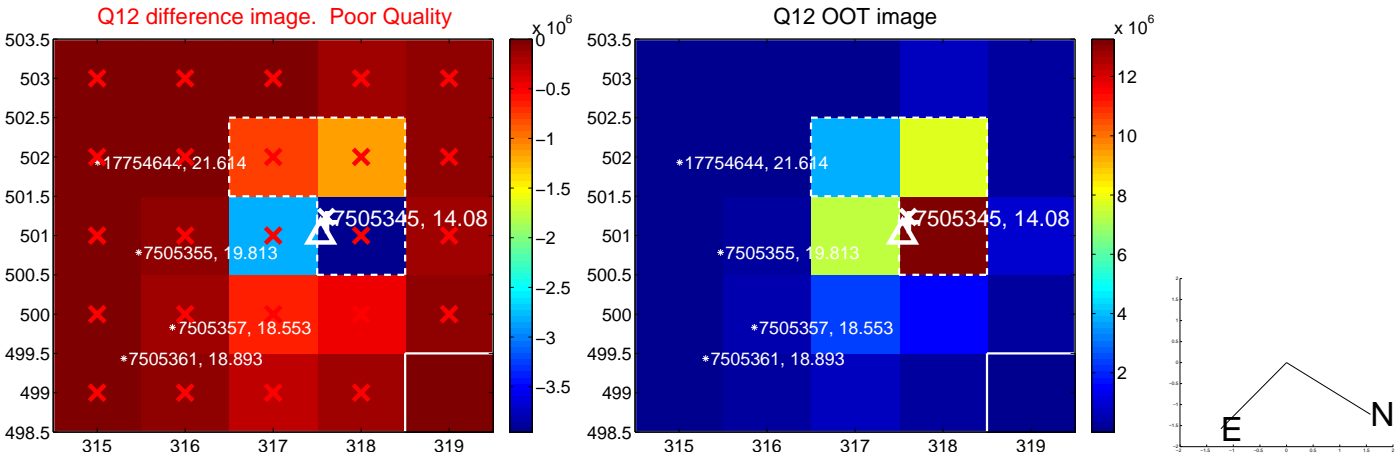
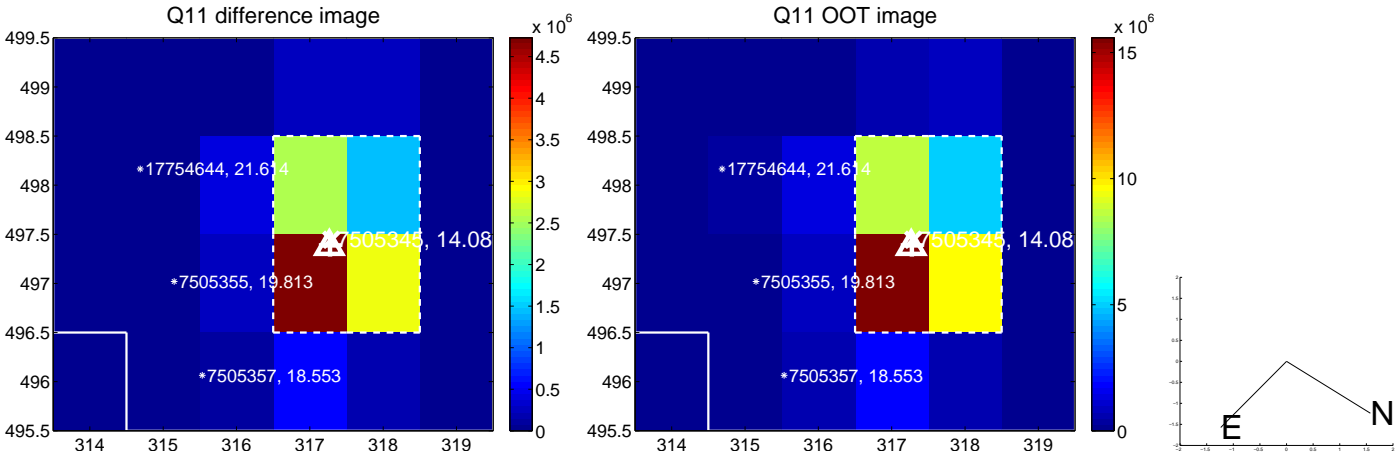
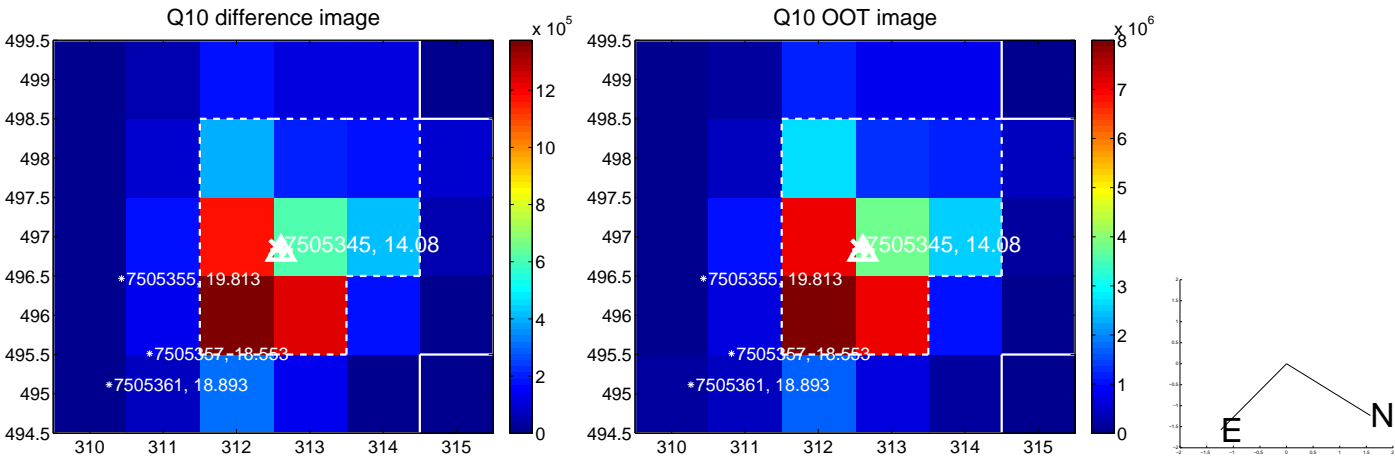
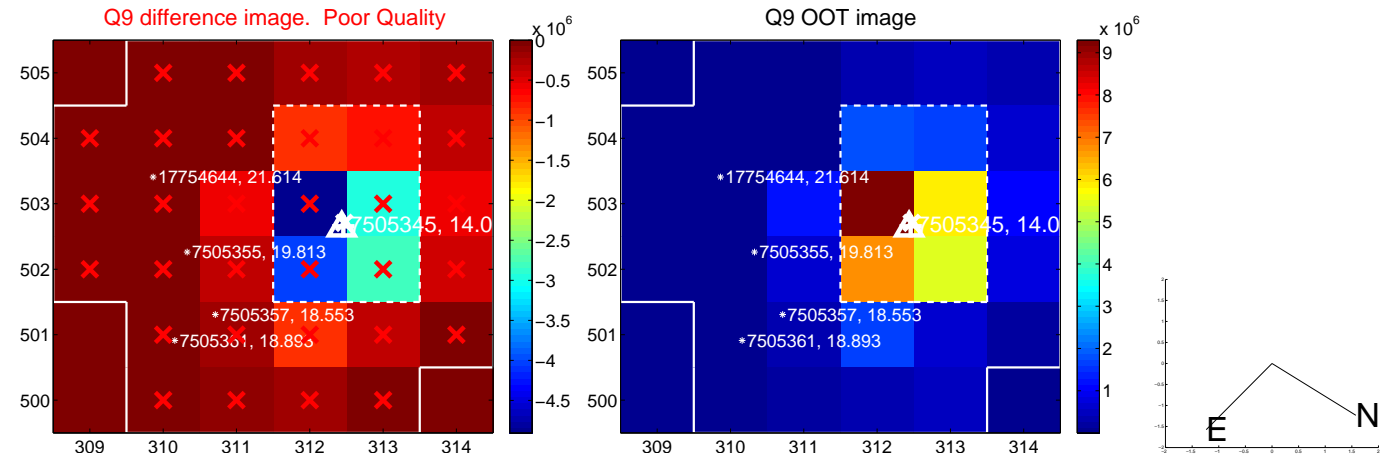
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



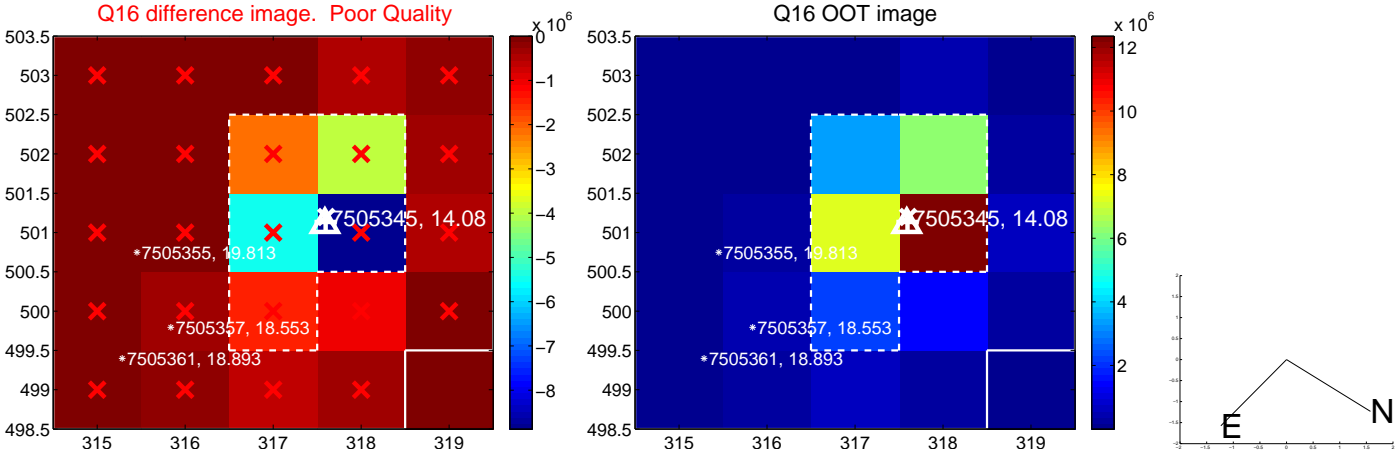
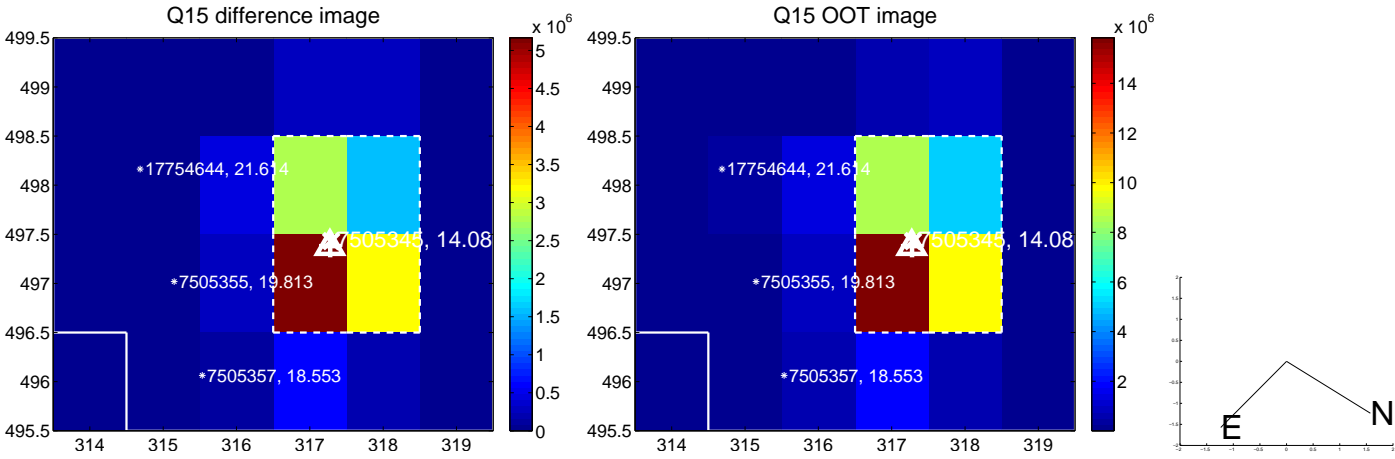
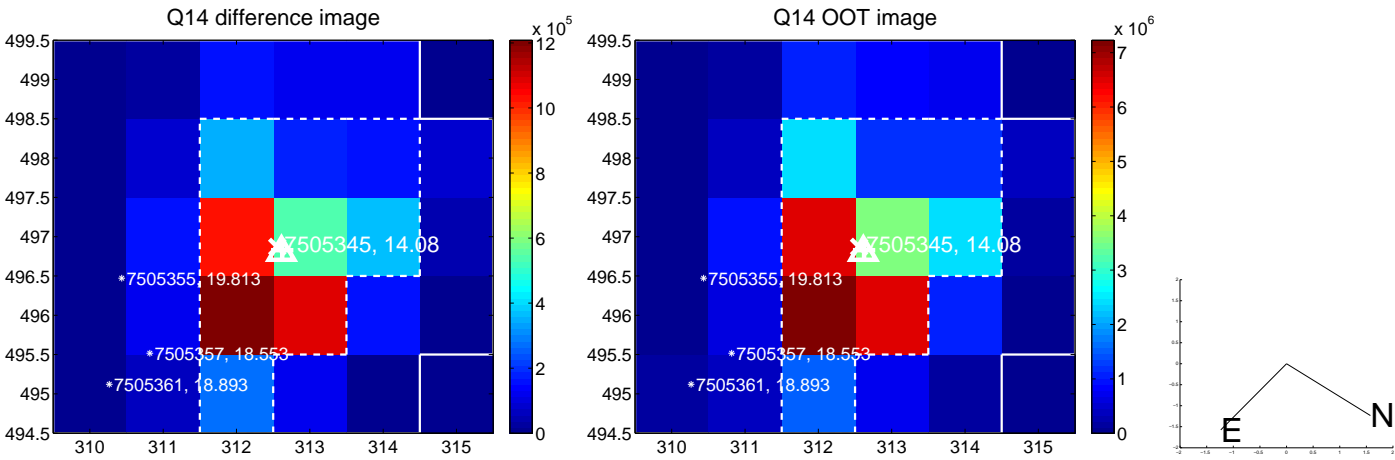
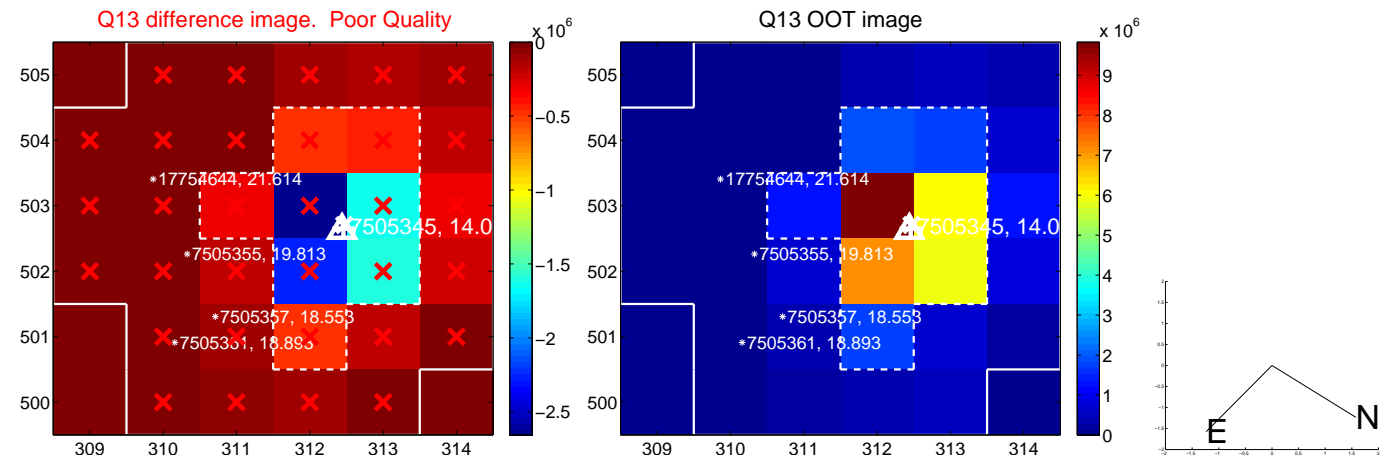
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



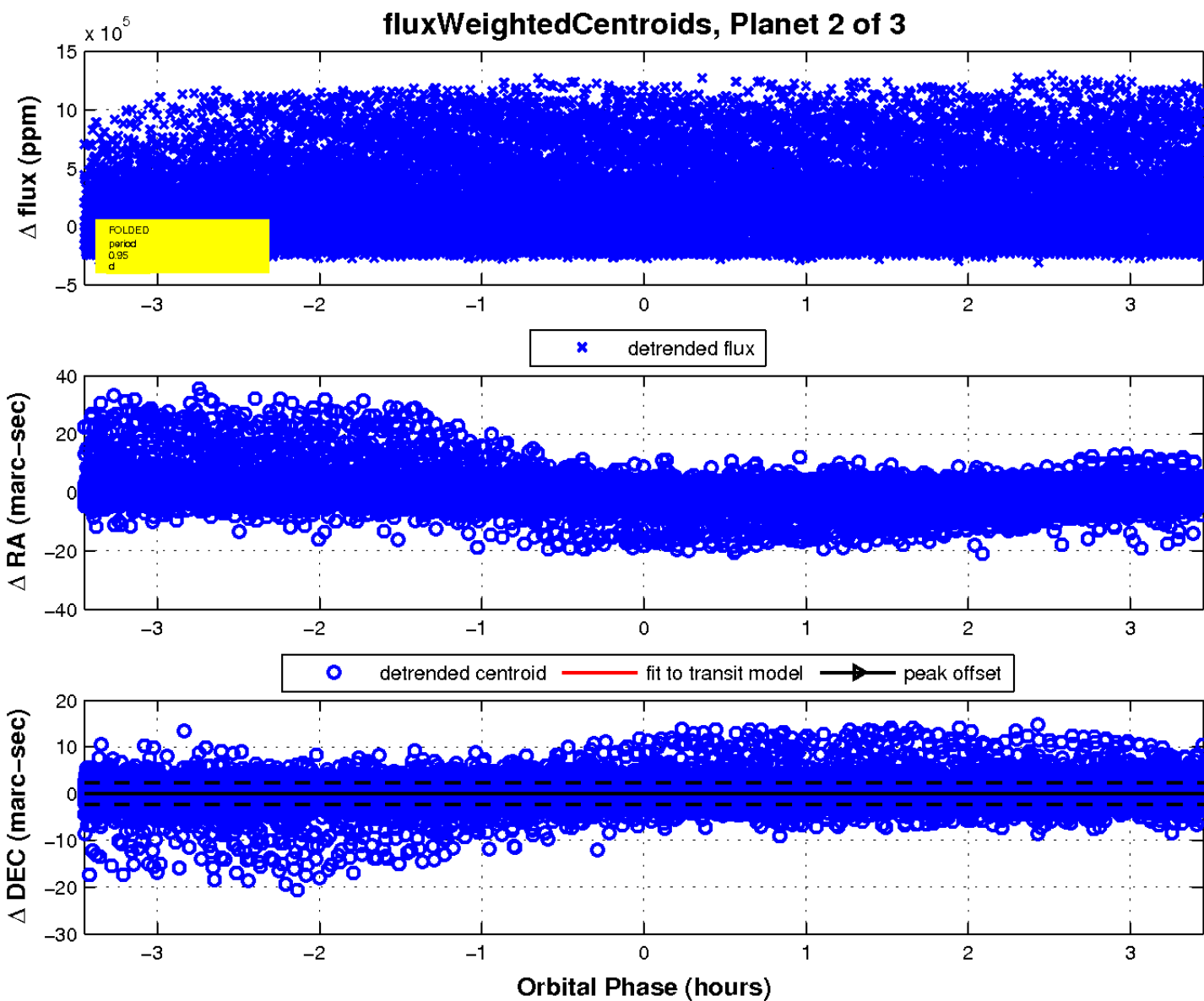
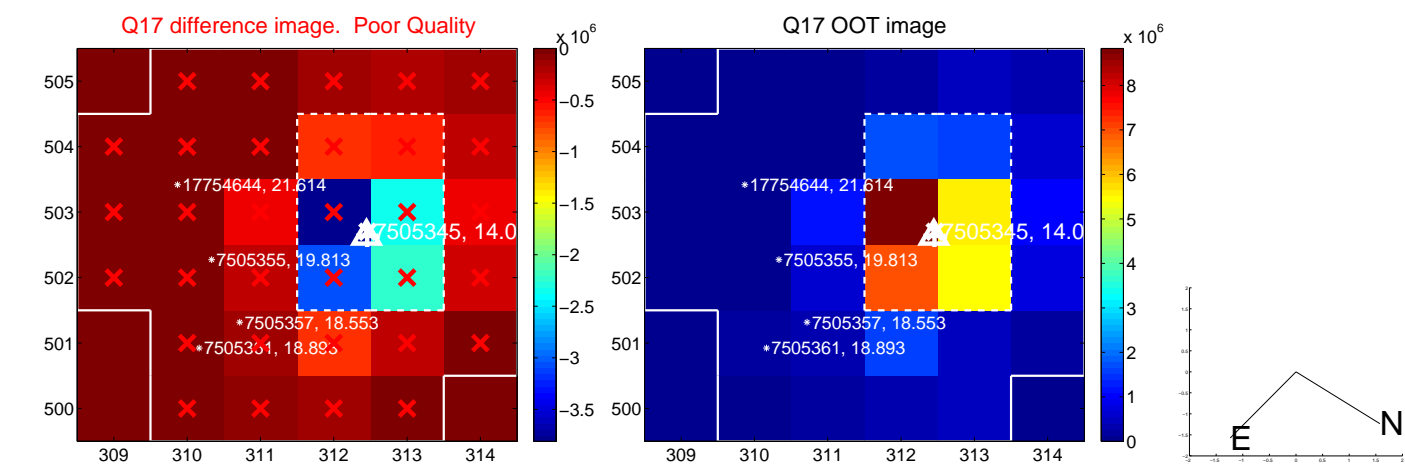
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

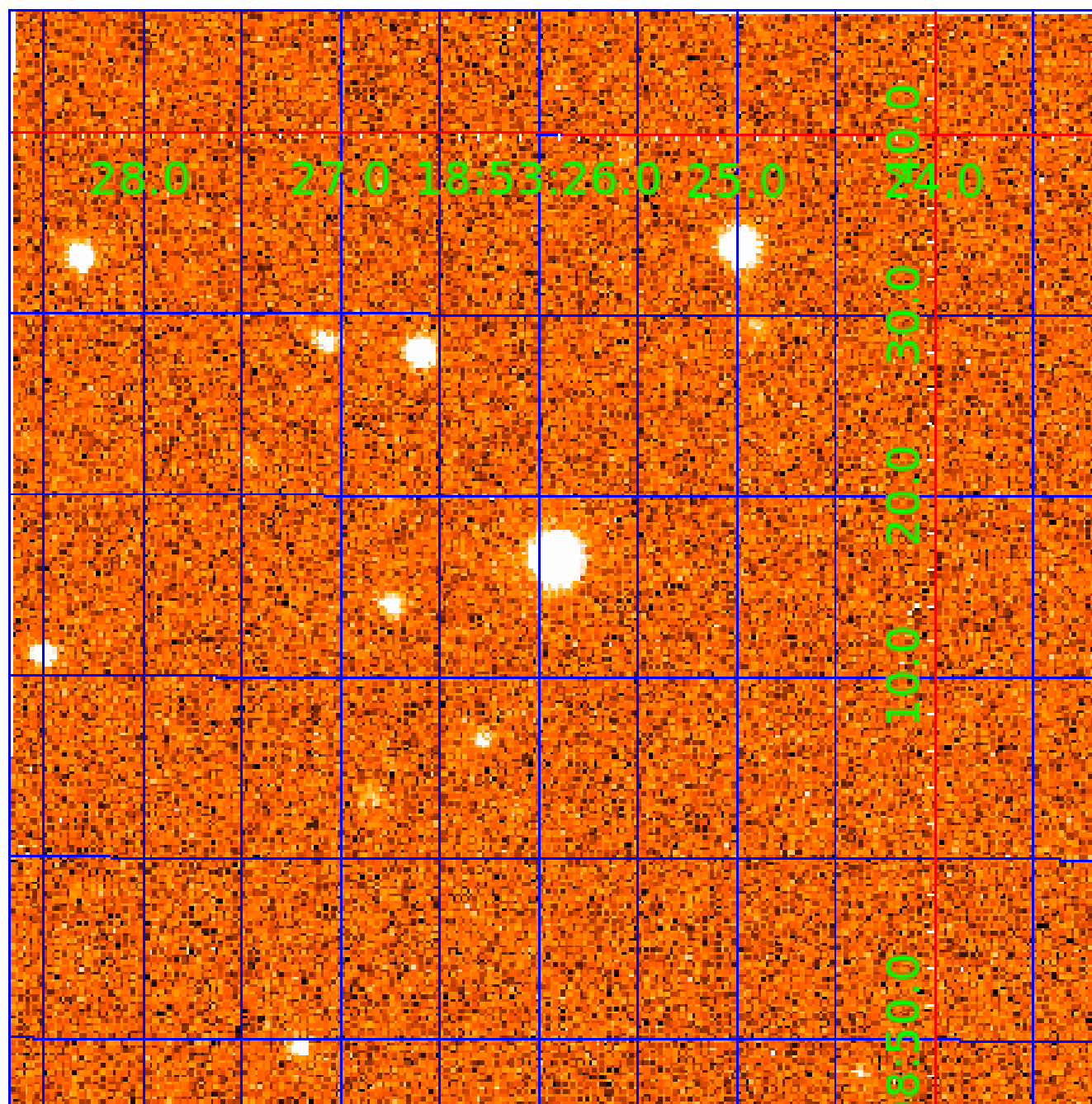


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007505345

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})
007505345-01	OBS	No	0.947486	131.882718	251.4	2.833	234.4	0.2	2.98	7990	4.85	59336.66
007505345-02	OBS	No	0.948667	131.636584	580.2	1.150	186.3	0.5	2.98	7990	7.79	59238.13
007505345-03	OBS	No	0.947405	131.507027	967.2	3.000	93.0	-1.0	2.98	7990	9.38	59343.35

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007505345-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT
007505345-02	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—HALO_GHOST
007505345-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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.

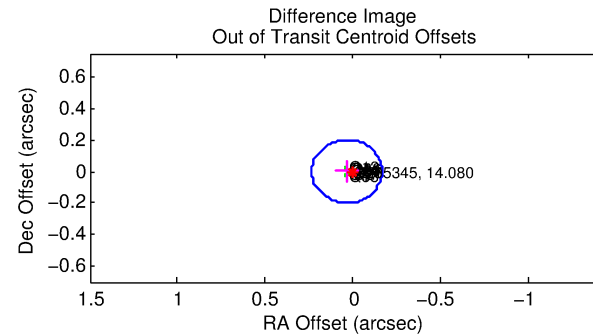
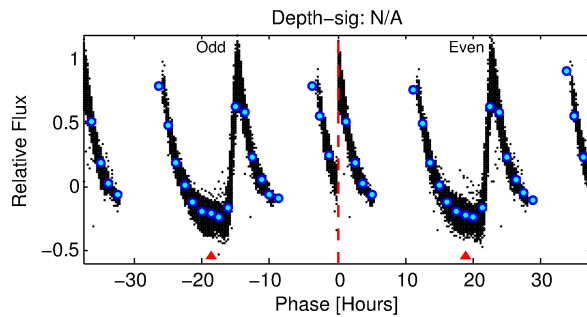
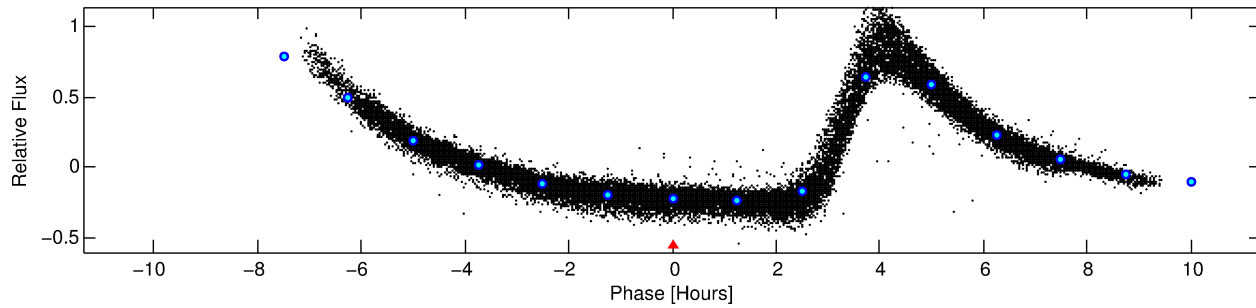
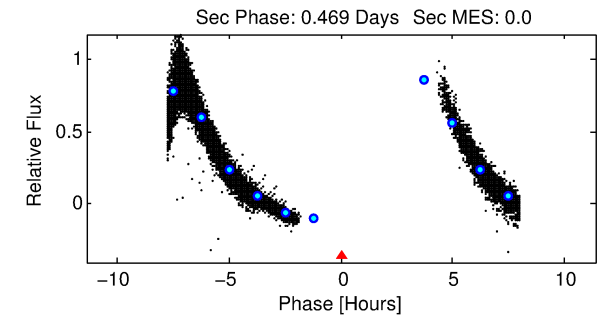
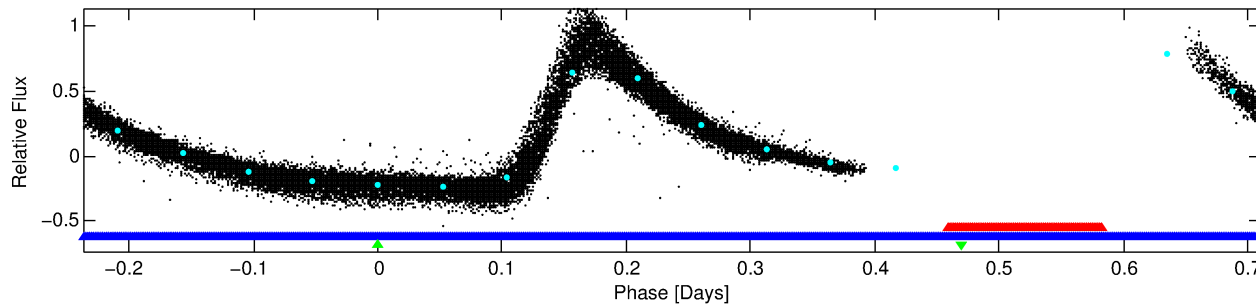
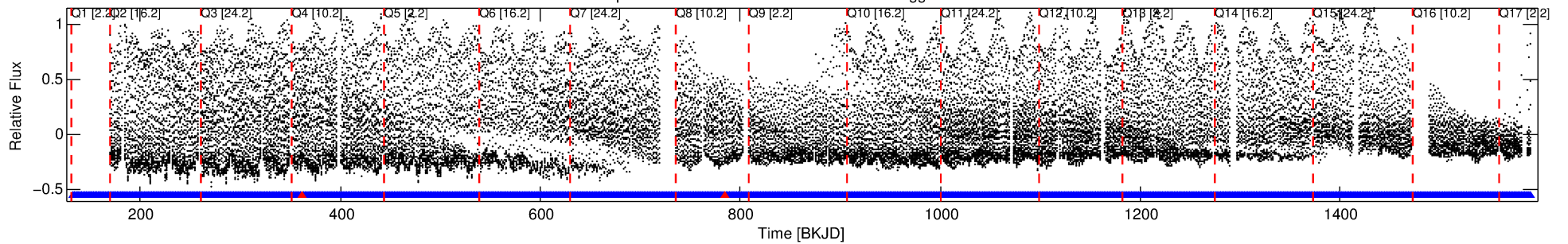
Ephemeris Match Information For 007505345-03

No Significant Match Found

DV One-Page Summary

KIC: 7505345 Candidate: 3 of 3 Period: 0.947 d

Kp: 14.08 R*: 2.98 Rs Teff: 7990.0 K Logg: 3.77 Fe/H: -0.420



TPS TCE Results:

Period = 0.94741 d
Epoch = 131.5070 BKJD

DV fit results are unavailable

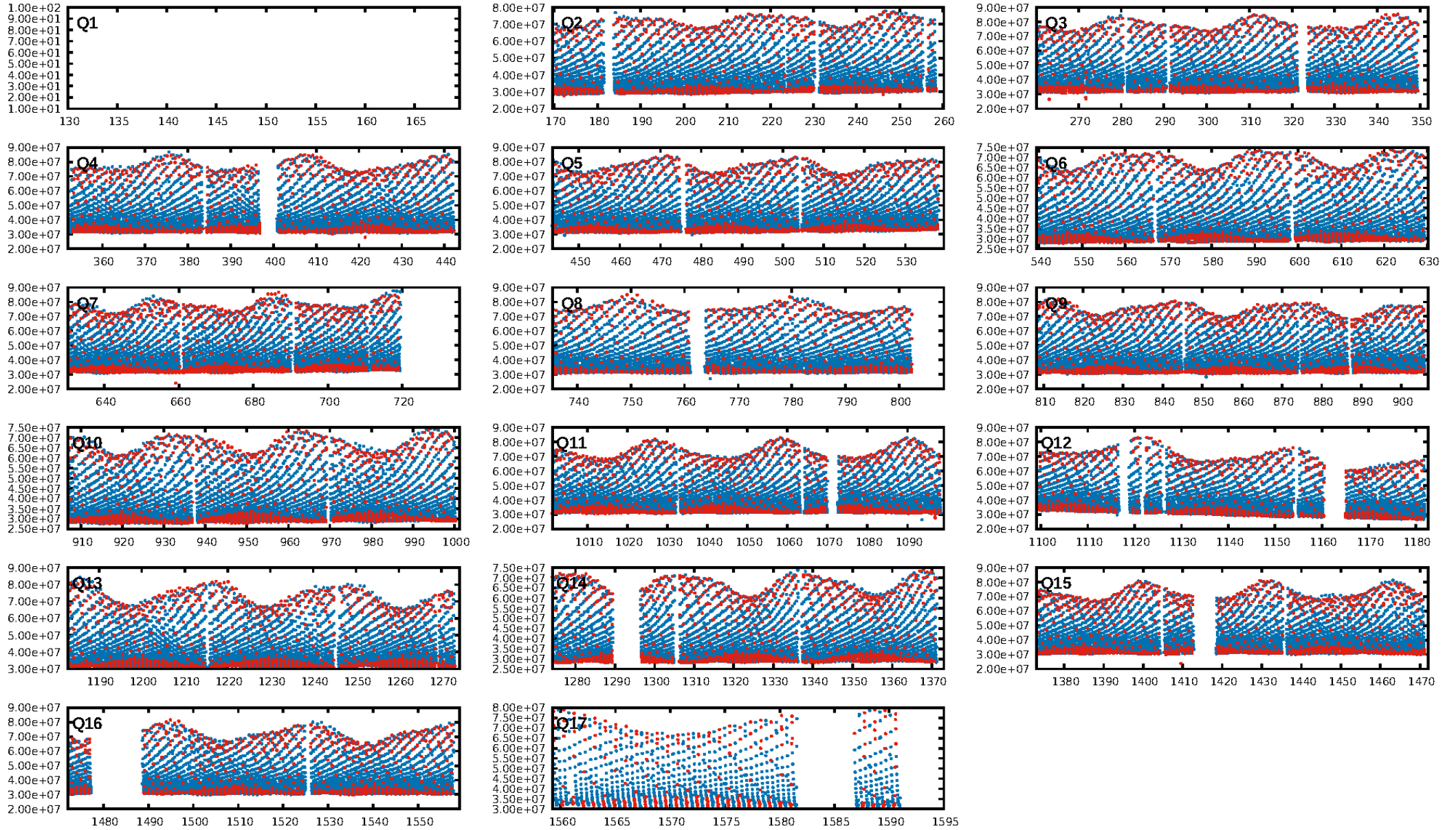
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1356/1358]
GhostDiagnostic-chr: 1.272
Centroid-sig: N/A
Centroid-so: 0.329 arcsec [588.56σ]
OotOffset-rm: 0.035 arcsec [0.52σ]
KicOffset-rm: 0.280 arcsec [4.10σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 1.00 [16/16]
DiffImageOverlap-fno: 0.00 [0/16]

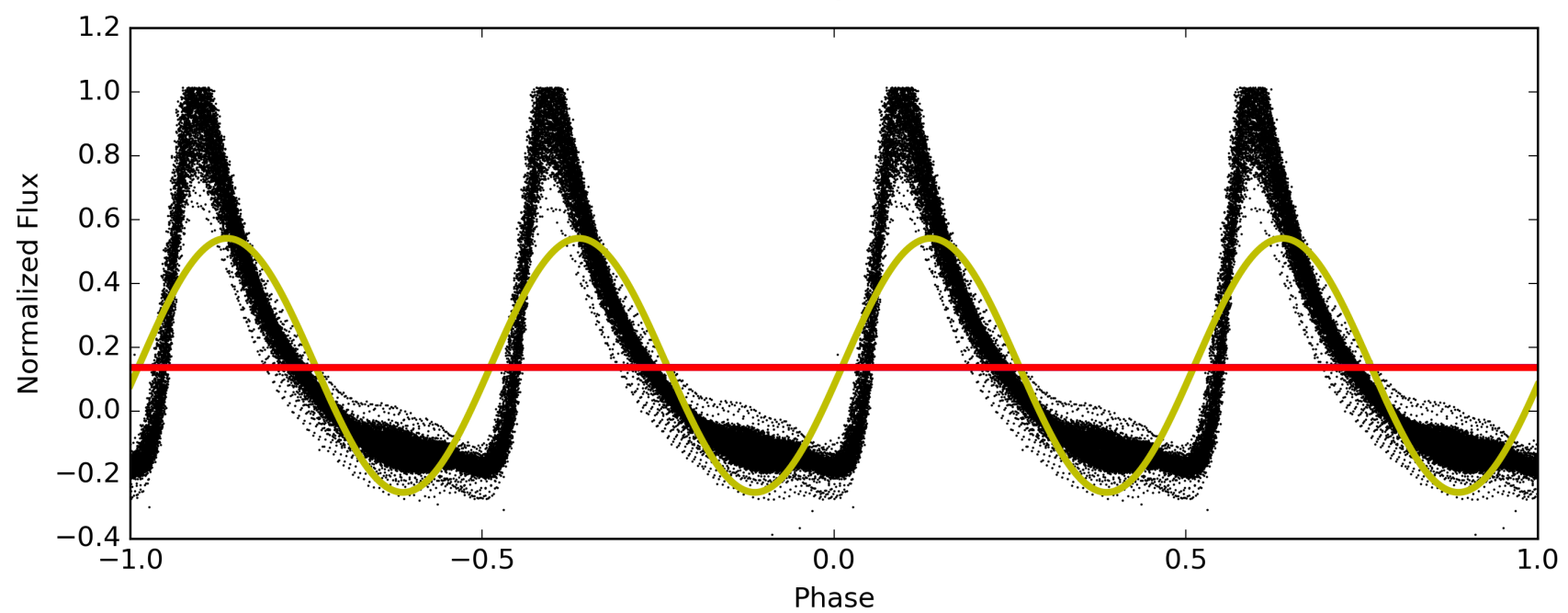
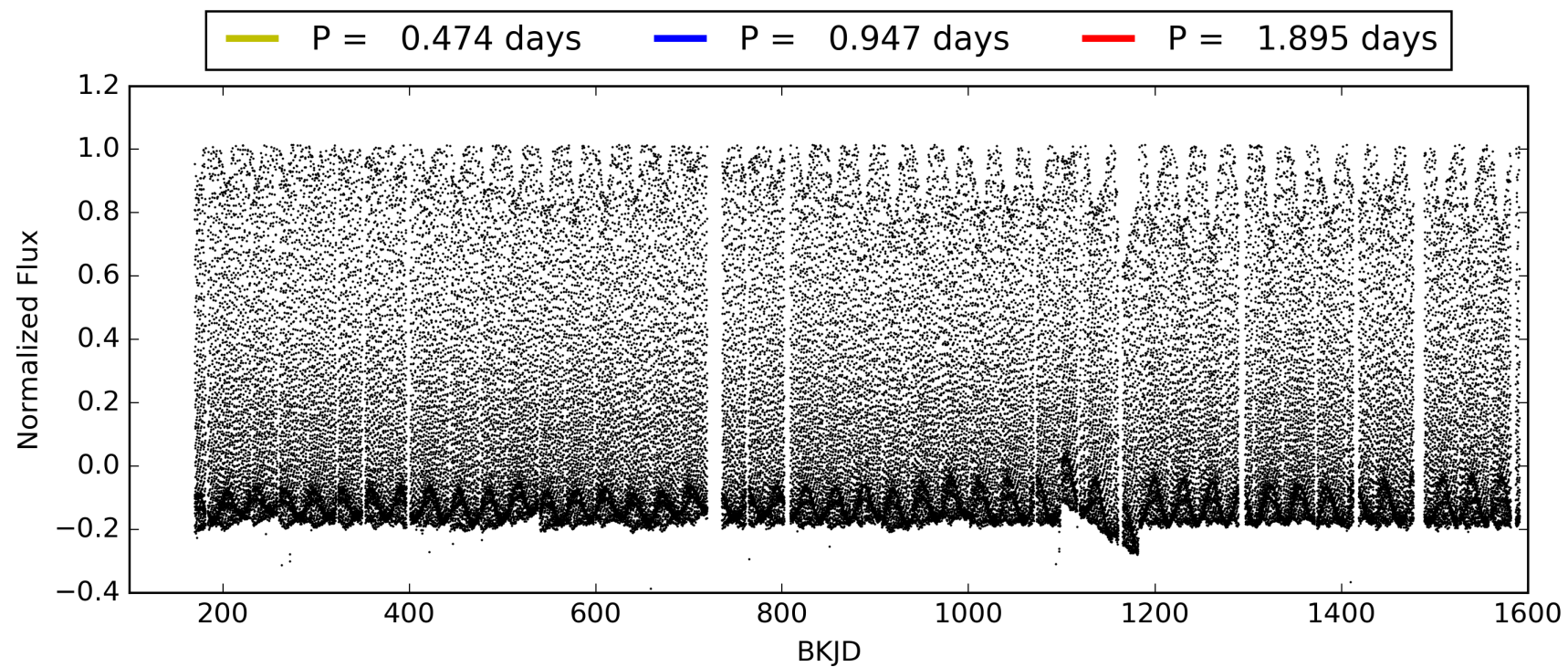
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 12:08:28 Z

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

TCE 007505345-03, PDC Light Curves

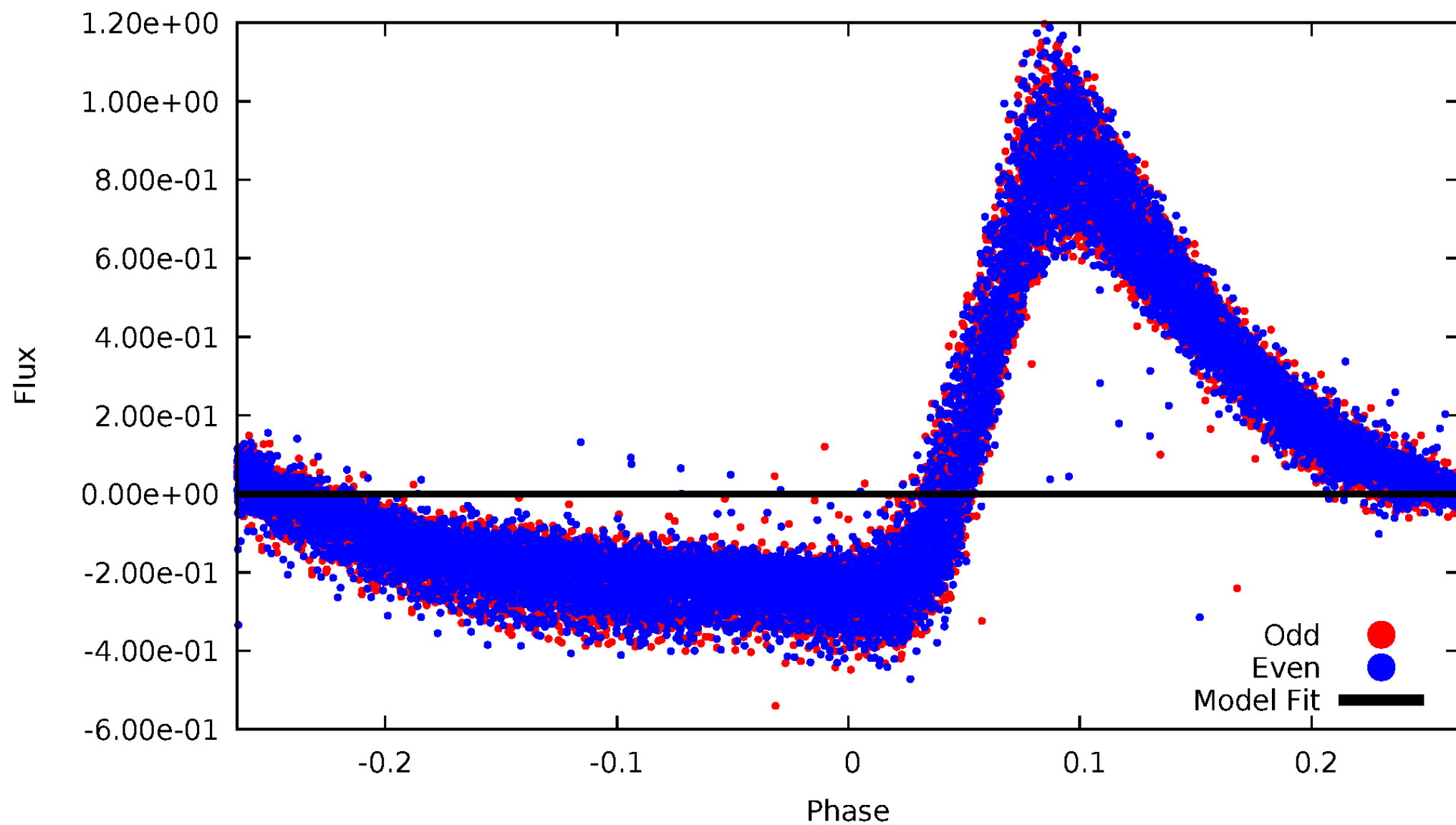


TCE 007505345-03



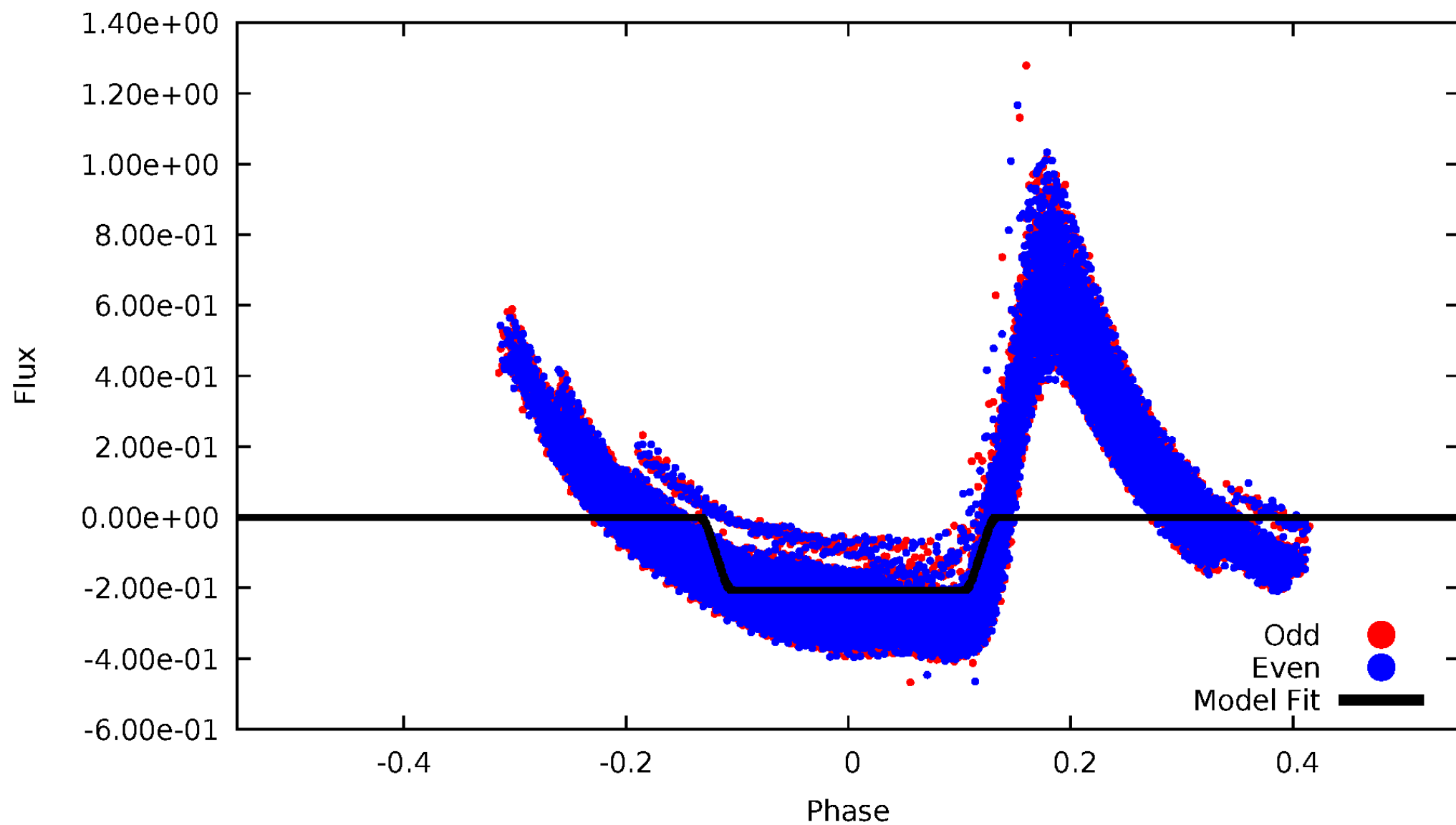
DV Odd/Even

TCE 007505345-03



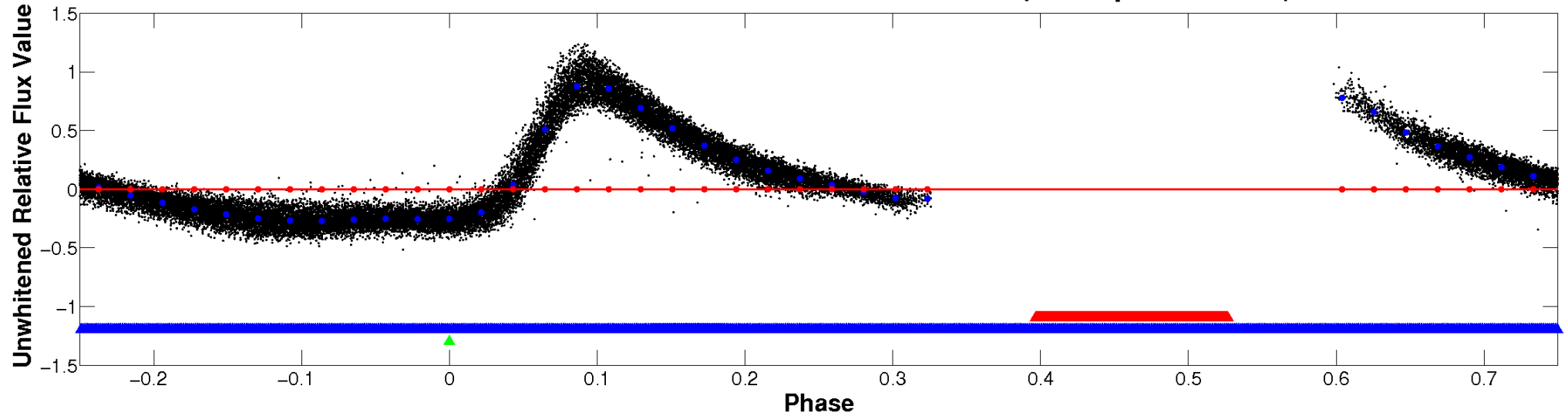
ALT Odd/Even

TCE 007505345-03

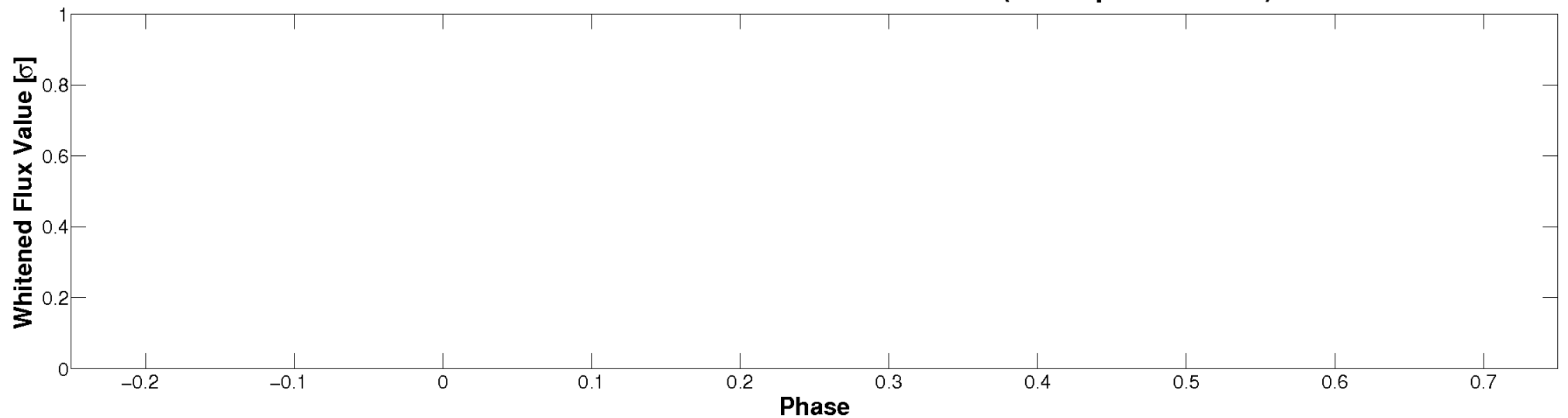


Non-Whitened Vs. Whitened Light Curve

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

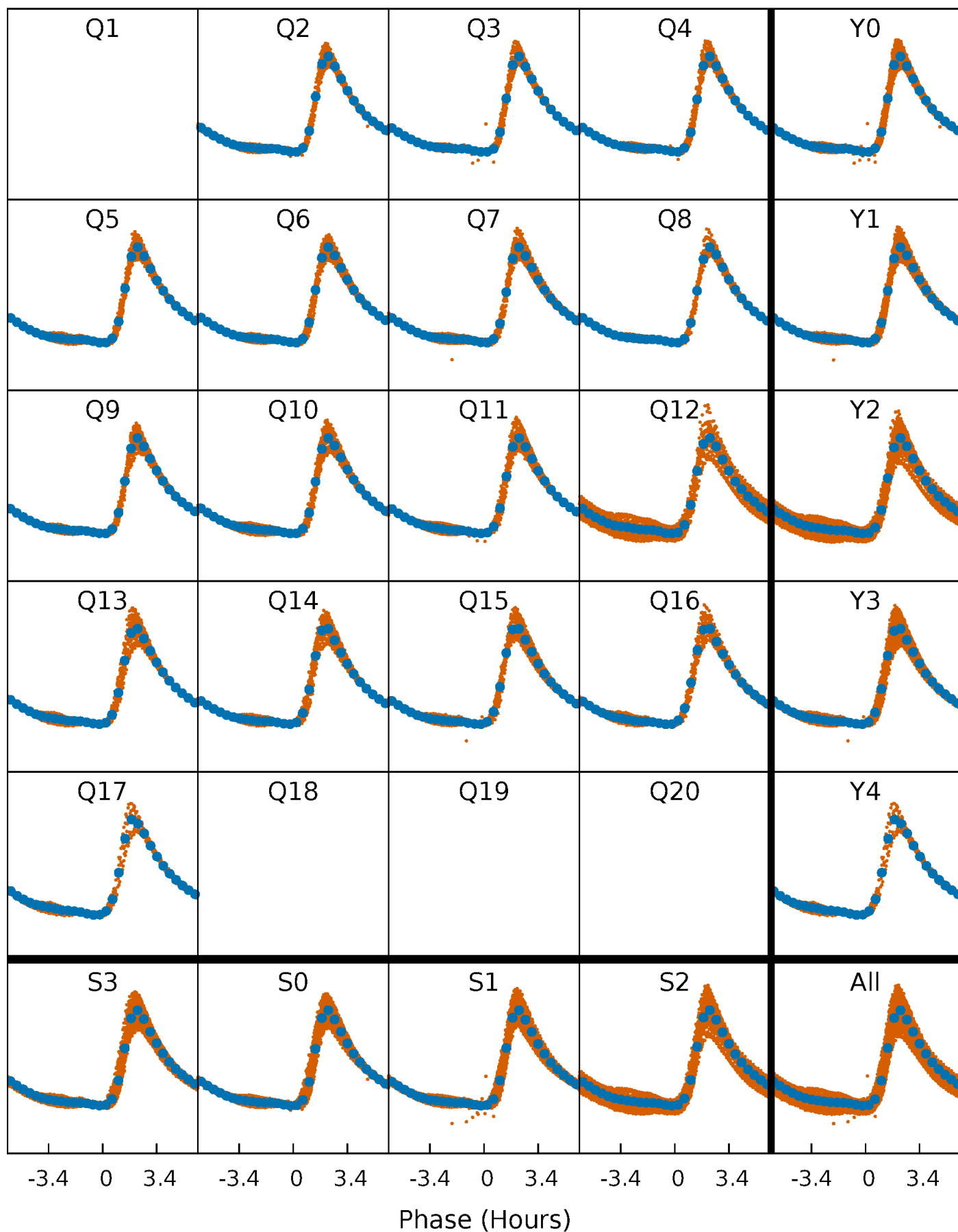


Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)



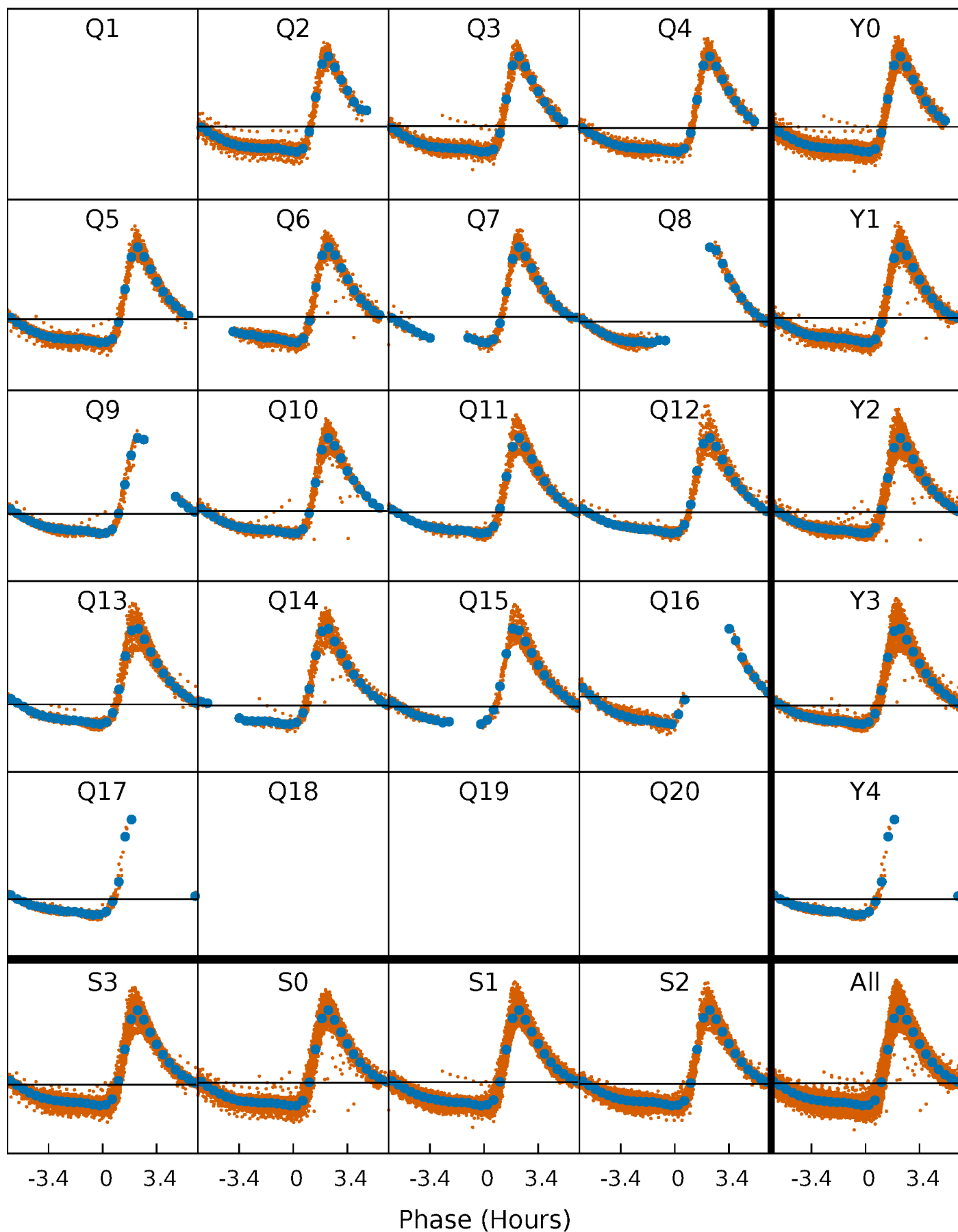
PDC Quarter-Phased Transit Curves

TCE 007505345-03 P= 0.947405 Days $T_0=131.507027$ (BKJD)



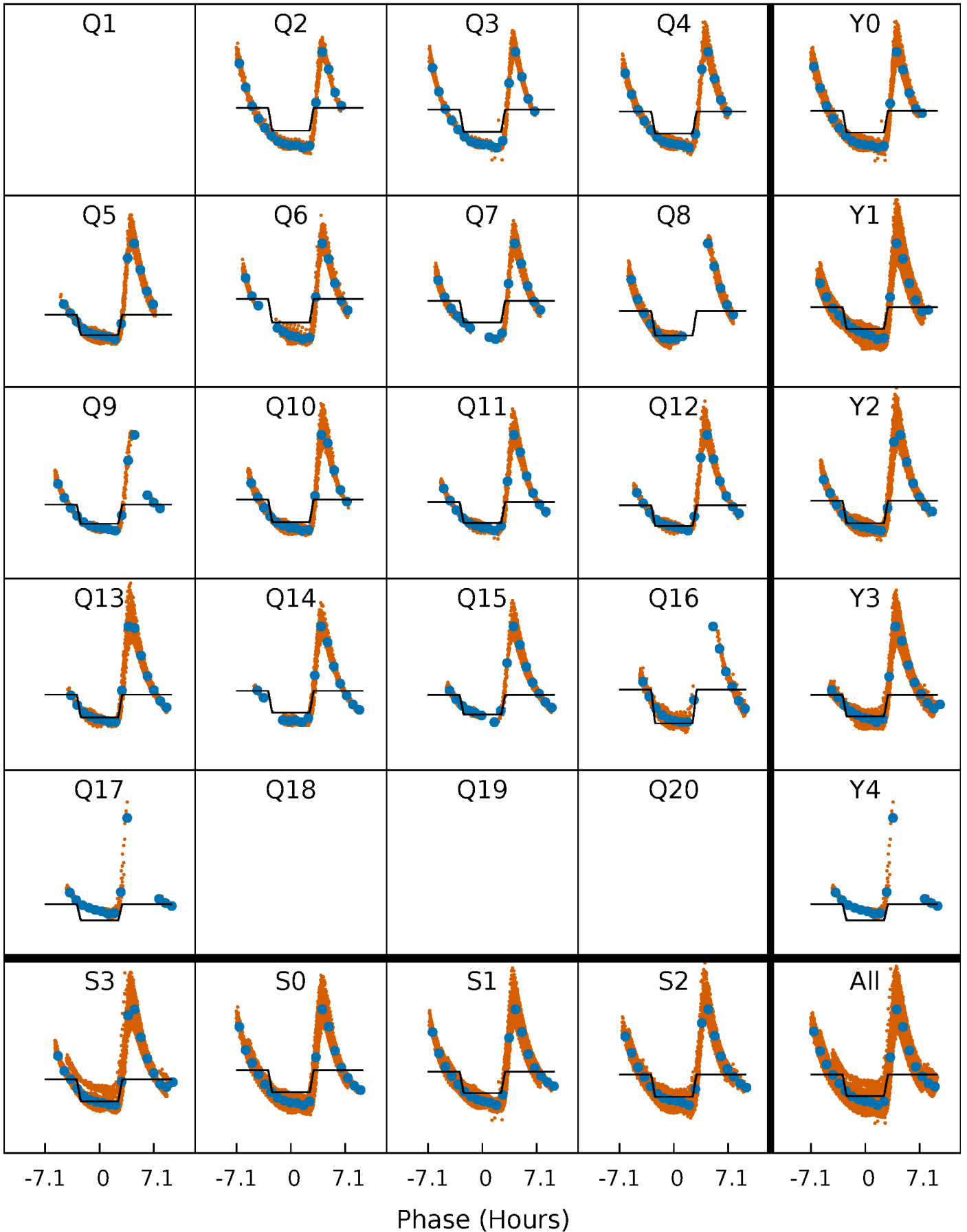
DV Quarter-Phased Transit Curves

TCE 007505345-03 $P = 0.947405$ Days $T_0 = 131.507027$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

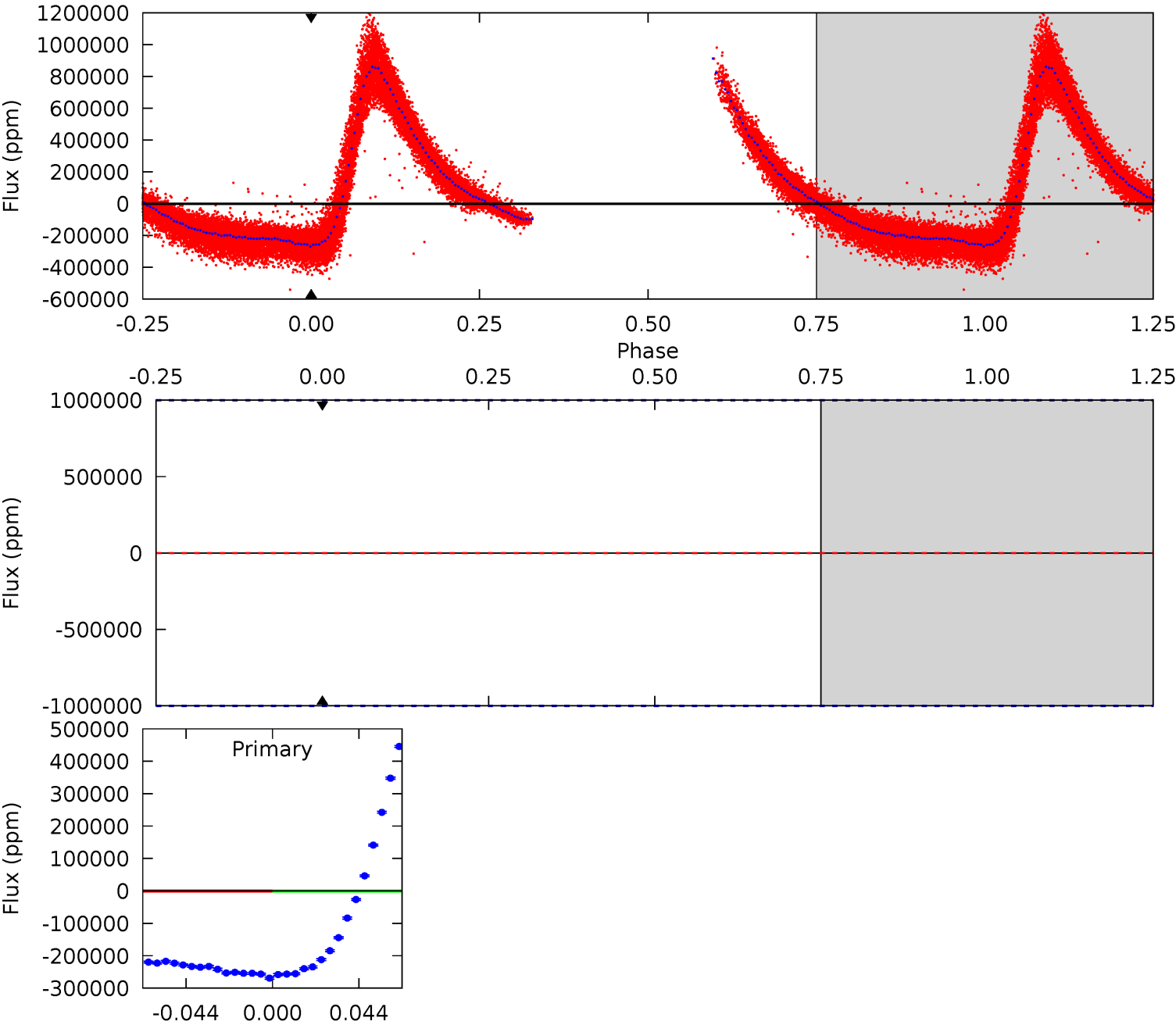
TCE 007505345-03 $P = 0.947405$ Days $T_0 = 132.371757$ (BKJD)



DV Model-Shift Uniqueness Test

007505345-03, P = 0.947405 Days, E = 131.507027 Days

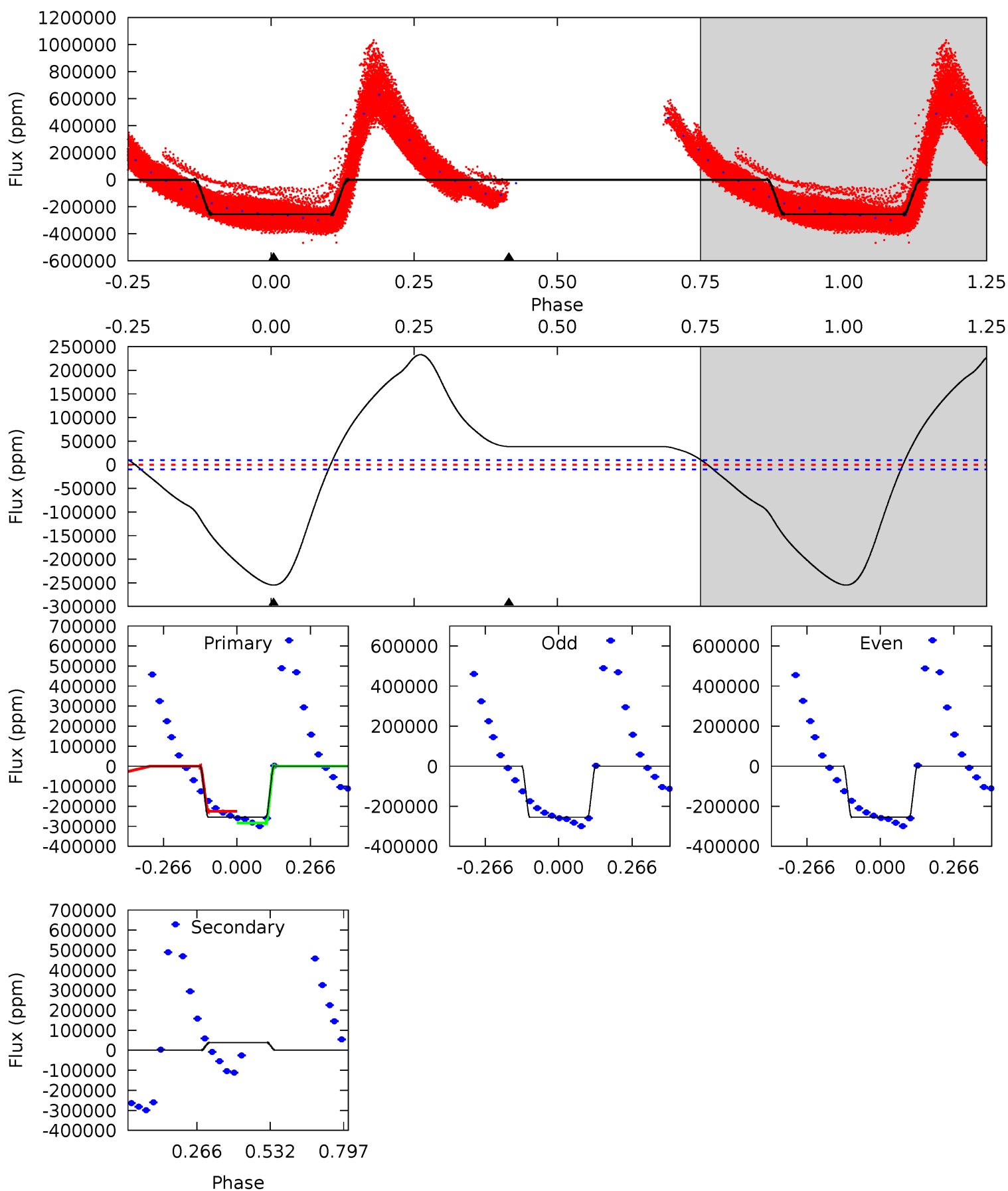
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007505345-03, P = 0.947405 Days, E = 132.371757 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
112.3	-16.9	0	0	4.36	1.11	27.8	112.3	112.3	-16.9	-16.9	0.15	1.04	0.48	7.87



Stellar Parameters For KIC 007505345

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7990^{+223}_{-335}	$3.768^{+0.450}_{-0.075}$	$-0.420^{+0.200}_{-0.300}$	$2.982^{+0.260}_{-1.387}$	$1.901^{+0.055}_{-0.491}$	$0.101^{+0.453}_{-0.025}$
	+3%/-4%	+12%/-2%	+48%/-71%	+9%/-47%	+3%/-26%	+448%/-25%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007505345-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$22.94^{+25.48}_{-16.16}$	5399^{+336}_{-656}	-7137^{+46383}_{-34805}	$-2.030^{+98.597}_{-101.193}$
Alt.	38447 ± 2268	$131.06^{+41.77}_{-38.02}$	5382^{+358}_{-652}	-5628^{+355}_{-531}	$-0.626^{+0.258}_{-0.601}$

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

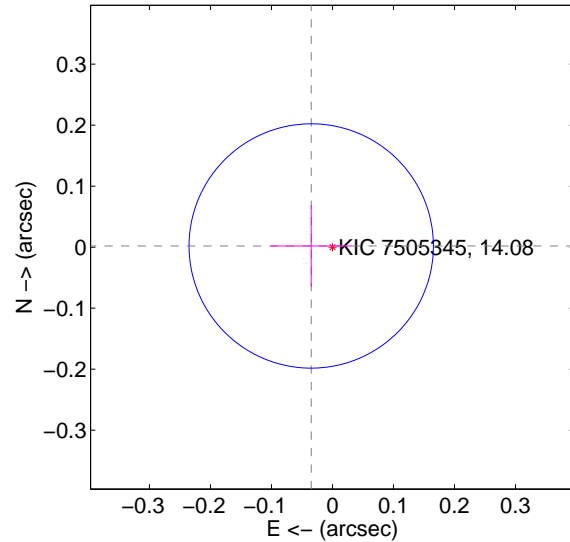
Supplemental centroid analysis for 007505345-03. Kepler magnitude: 14.08. Transit SNR -1.00

There are 16 quarters with good PRF difference image offsets

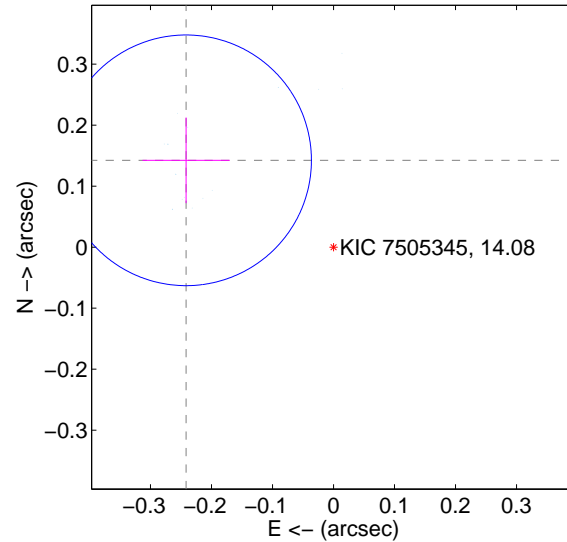
The direct PRF centroid is offset from the target star catalog position by about 0.25 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.035 ± 0.067	0.52	0.035 ± 0.067	0.002 ± 0.067
PRF-fit source offset from KIC position	0.280 ± 0.068	4.10	0.242 ± 0.072	0.142 ± 0.070
photometric centroid source offset	0.33 ± 0.00	588.56	0.24 ± 0.00	0.22 ± 0.00

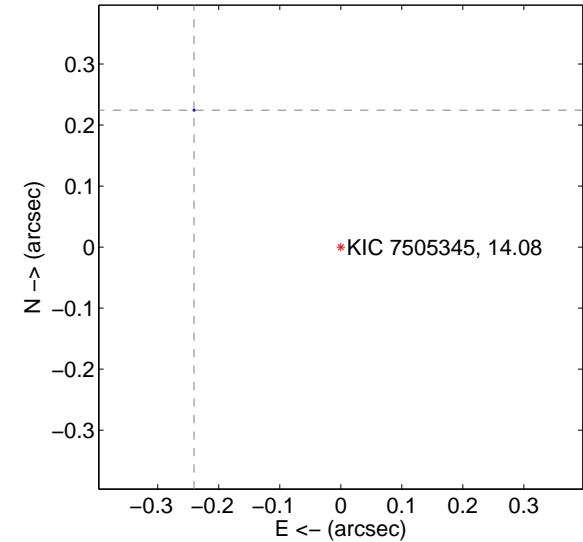
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

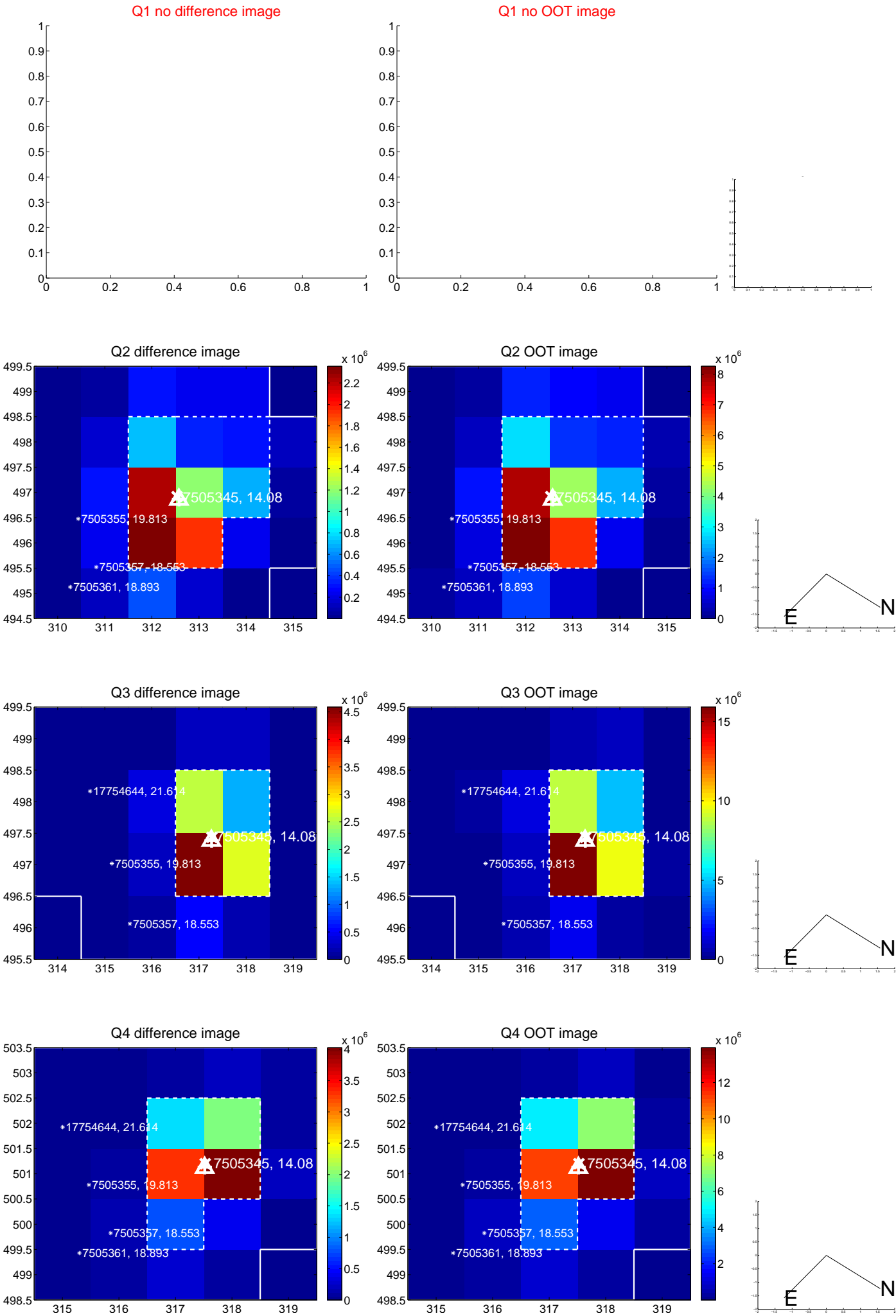


offset from photometric centroids

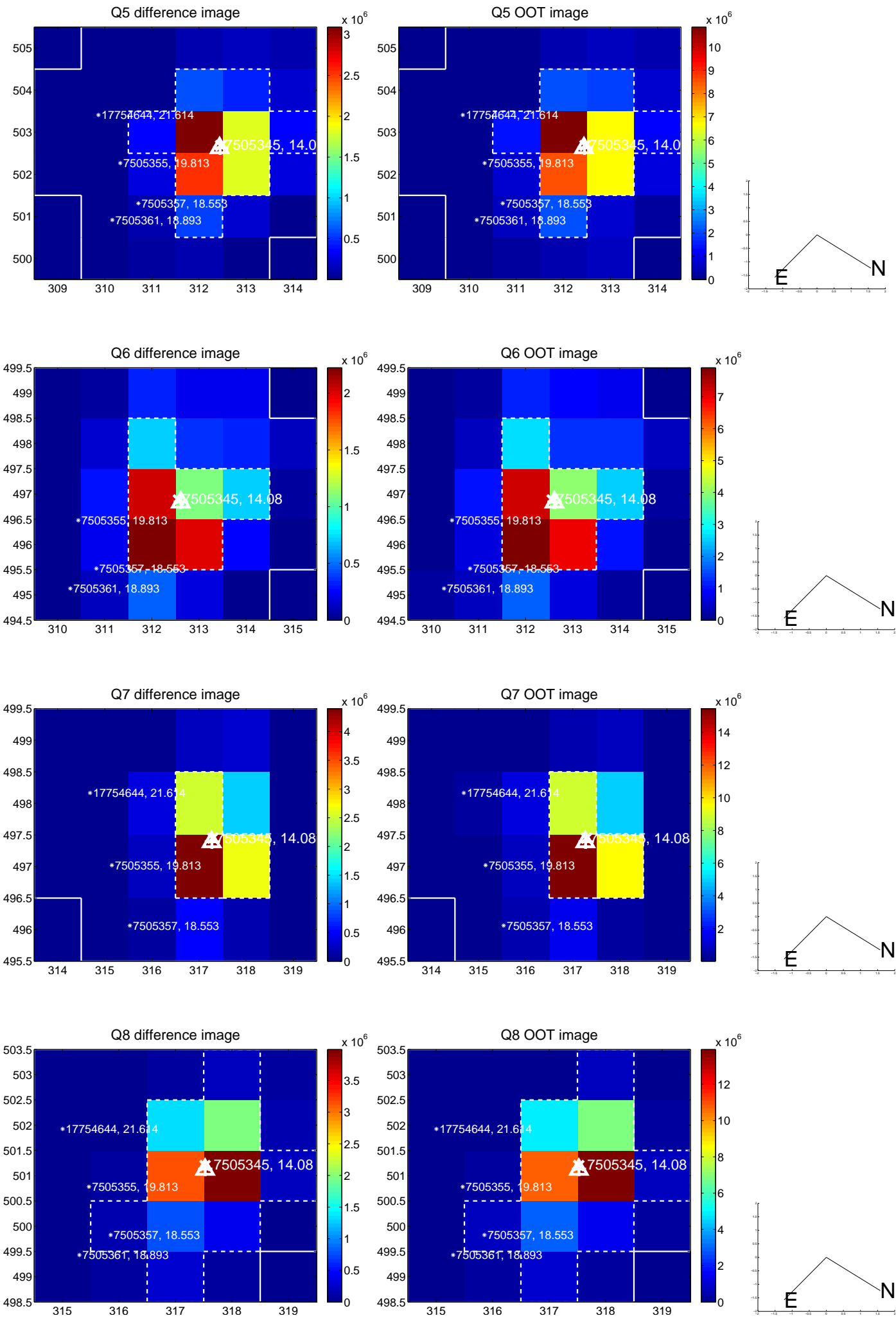


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

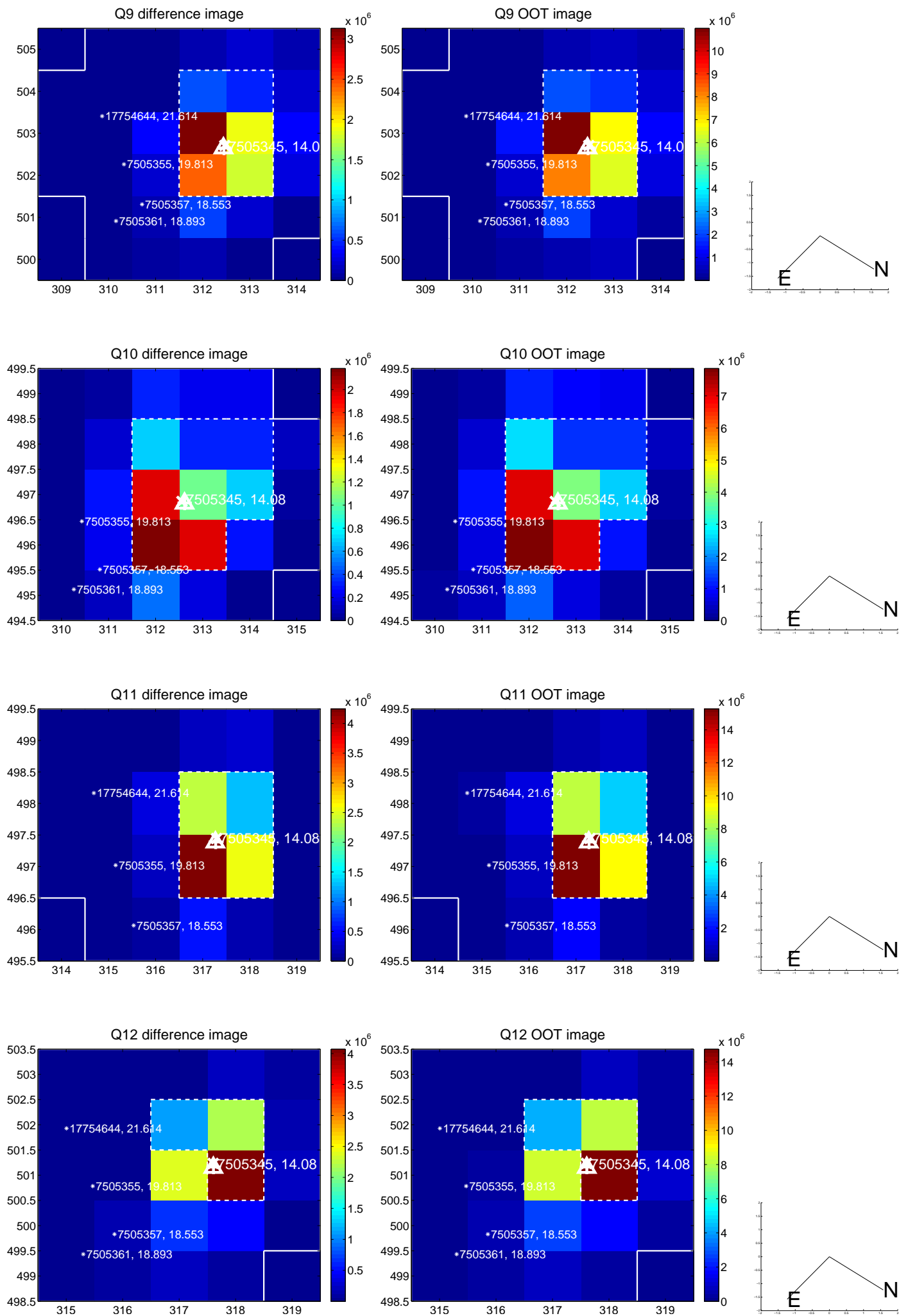
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



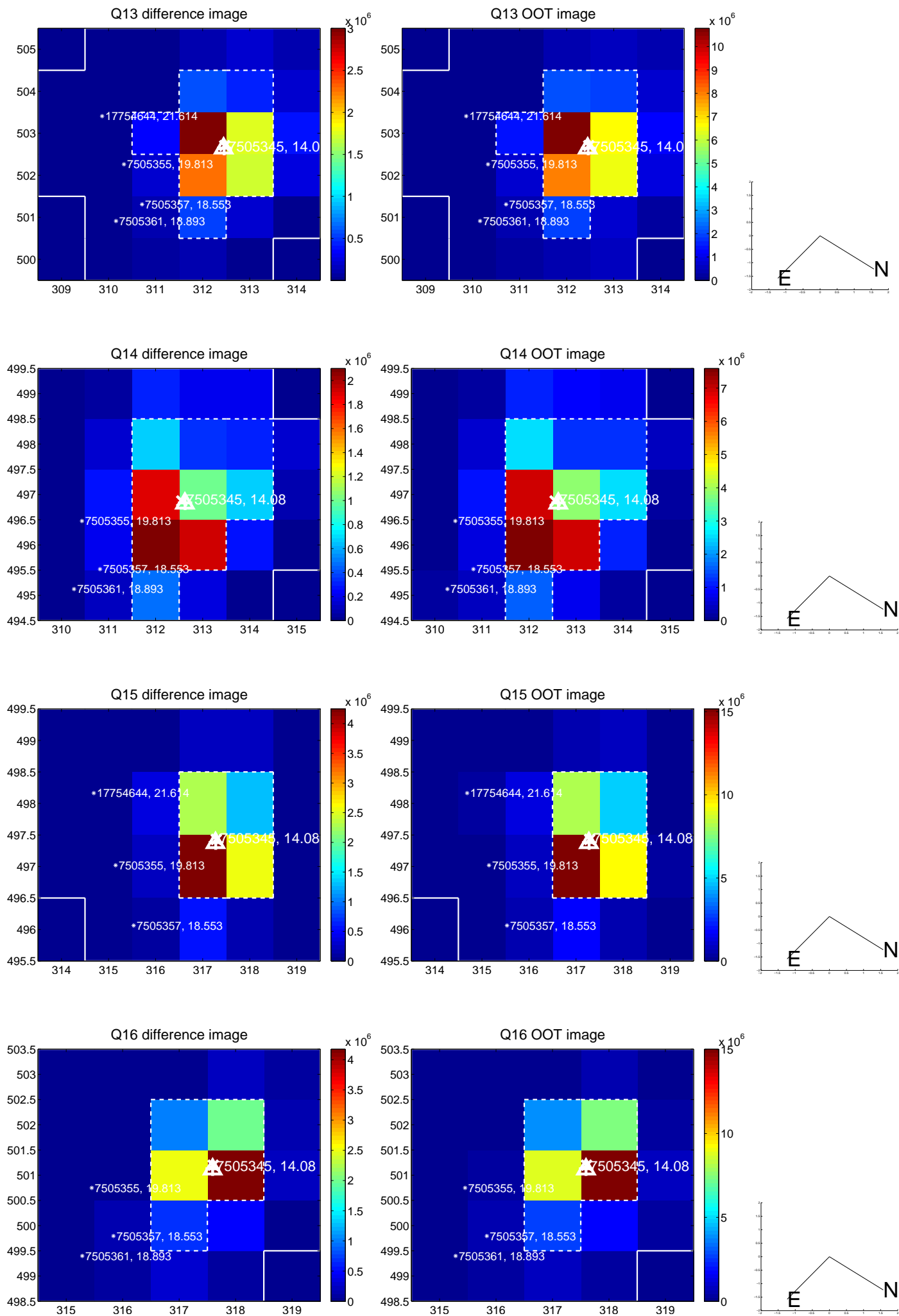
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



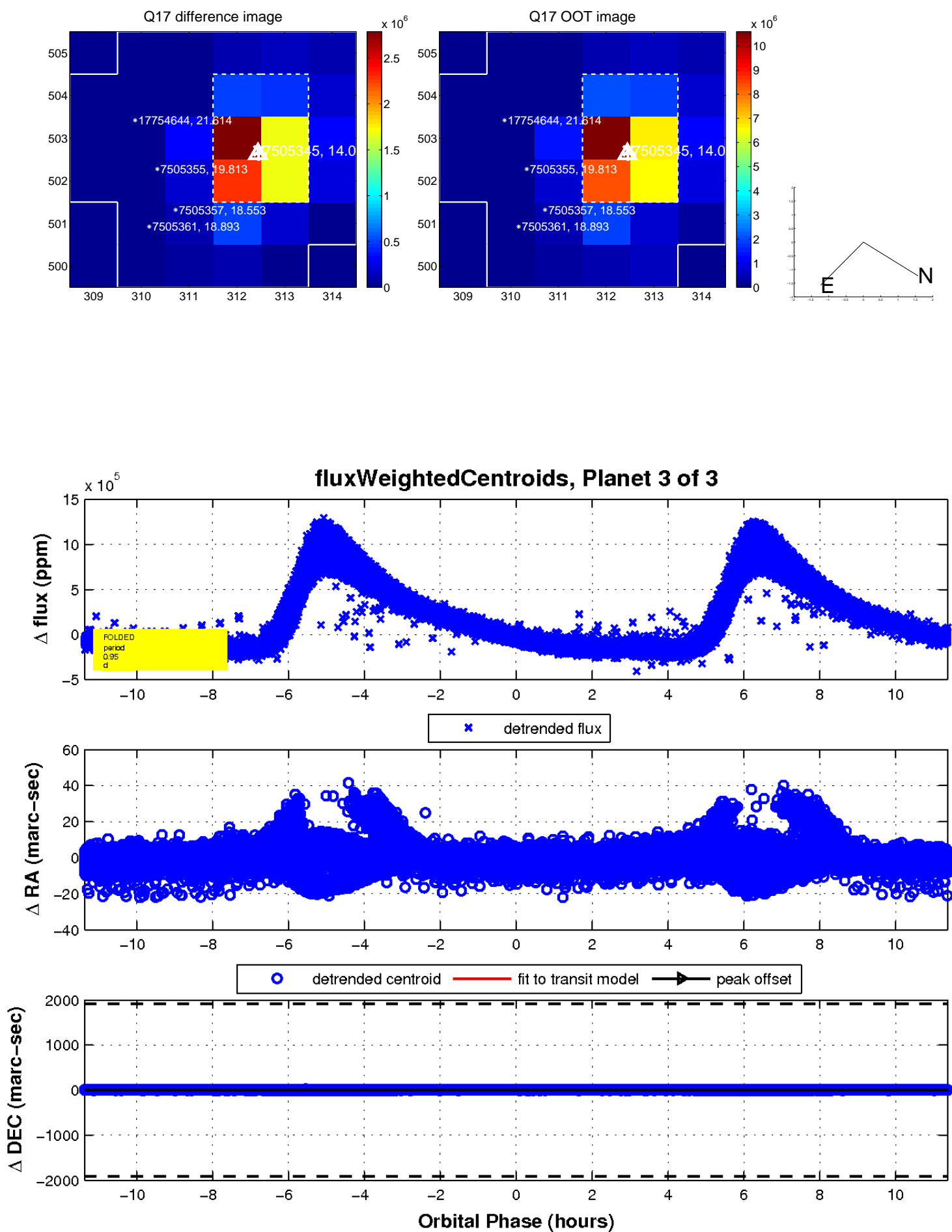
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

