

KIC 005774743

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})
005774743-01	OBS	No	4.073588	133.567045	44.5	3.700	12.9	13.8	3.21	8203	2.51	10346.45
005774743-02	OBS	No	2.036752	133.084378	126.2	4.500	12.4	-1.0	3.21	8203	3.64	26072.13
005774743-03	OBS	No	1.357758	131.800399	11.5	3.935	8.4	5.9	3.21	8203	1.29	44771.11
005774743-04	OBS	No	2.036857	133.367773	26.2	6.257	8.4	8.3	3.21	8203	1.96	26070.35
005774743-05	OBS	No	135.501748	238.678205	187.0	15.000	14.6	-1.0	3.21	8203	4.43	96.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005774743-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV
005774743-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS
005774743-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS
005774743-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005774743-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

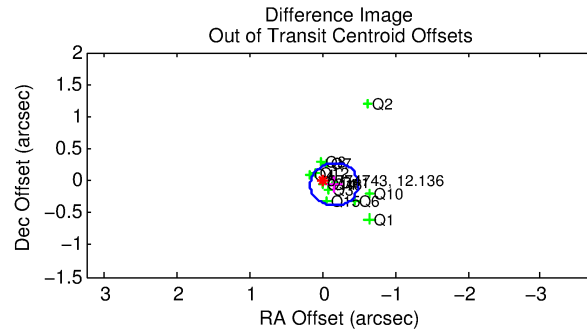
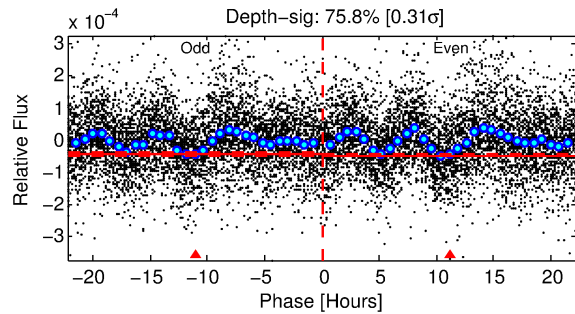
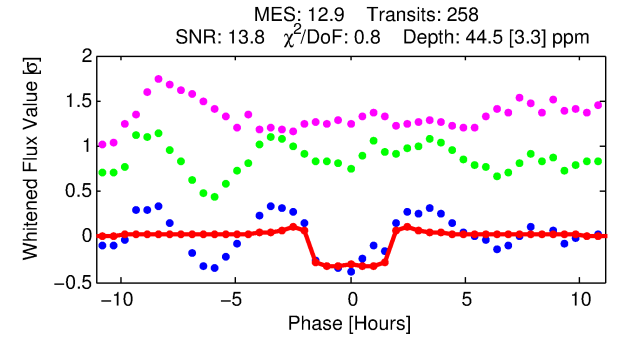
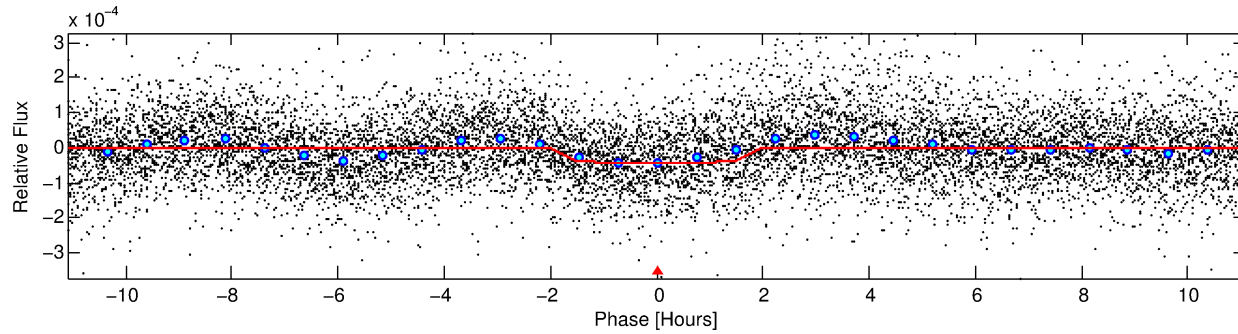
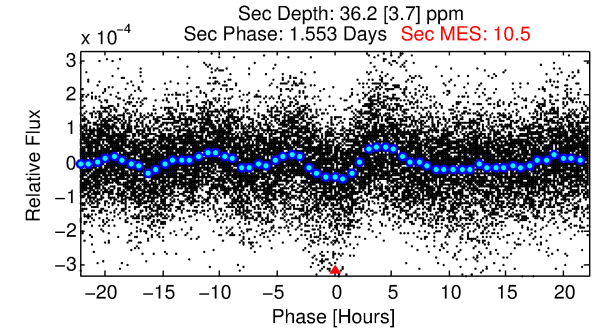
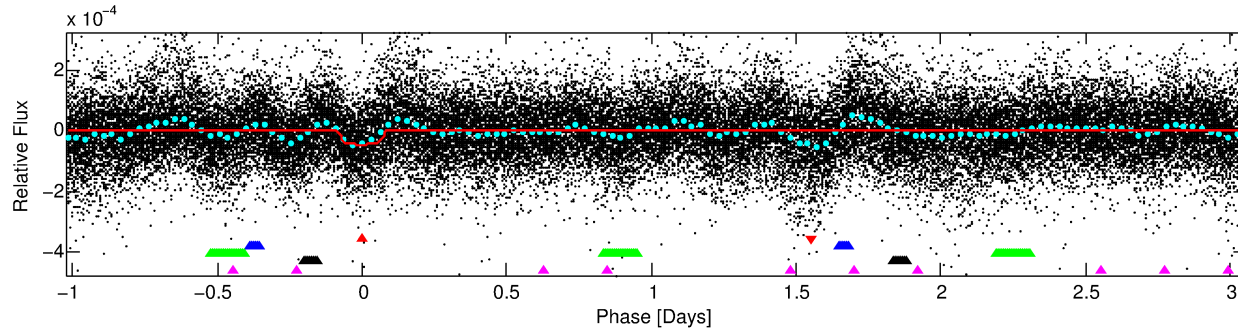
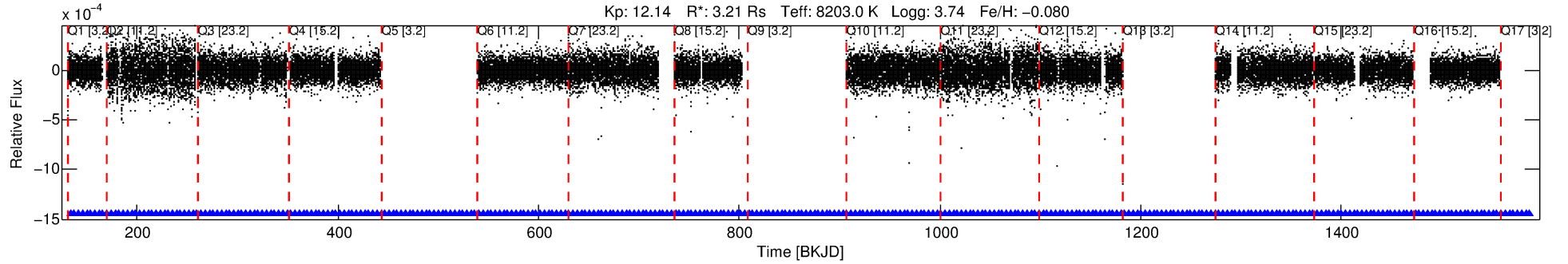
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005774743-01

No Significant Match Found

DV One-Page Summary

KIC: 5774743 Candidate: 1 of 5 Period: 4.074 d



DV Fit Results:

Period = 4.07359 [0.00002] d
Epoch = 133.5670 [0.0025] BKJD
Rp/R* = 0.0072 [0.0013]
a/R* = 3.73 [3.85]
b = 0.91 [0.21]
Seff = 10346.45 [7438.00]
Teq = 2572 [462] K
Rp = 2.51 [1.20] Re
a = 0.0635 [0.0275] AU
Ag = 12.75 [10.07] [1.17σ]
Teffp = 7513 [759] K [5.56σ]

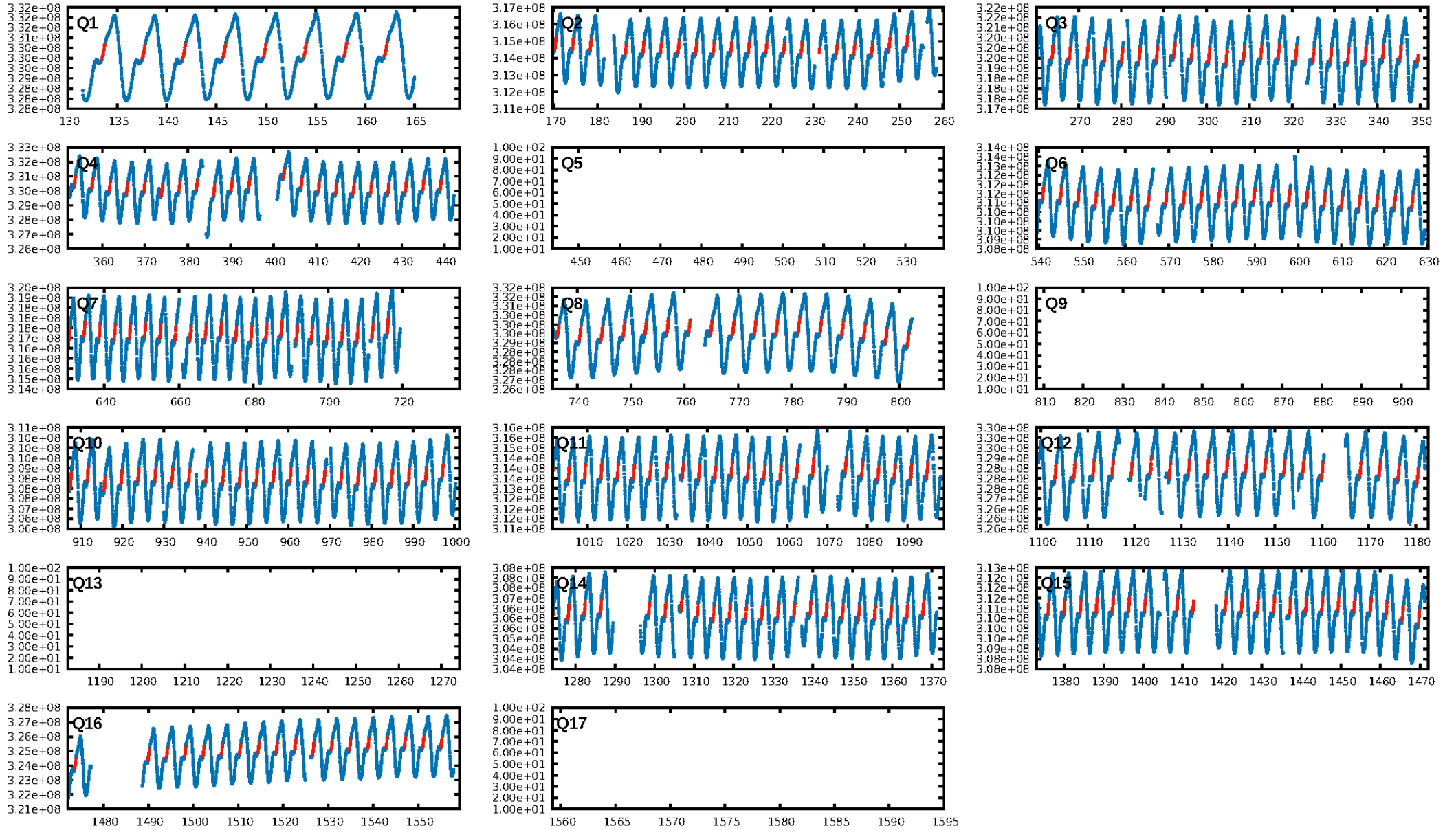
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [6.72σ]
LongPeriod-sig: 100.0% [204.17σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.23e-23
RollingBand-fgt: 1.00 [250/250]
GhostDiagnostic-chr: 0.5071
Centroid-sig: 28.8%
Centroid-so: 0.891 arcsec [1.05σ]
OotOffset-rm: 0.172 arcsec [1.56σ]
KicOffset-rm: 0.212 arcsec [2.17σ]
OotOffset-st: 4/4/4/1 [13]
KicOffset-st: 4/4/4/1 [13]
DiffImageQuality-fgm: 1.00 [13/13]
DiffImageOverlap-fno: 0.00 [0/13]

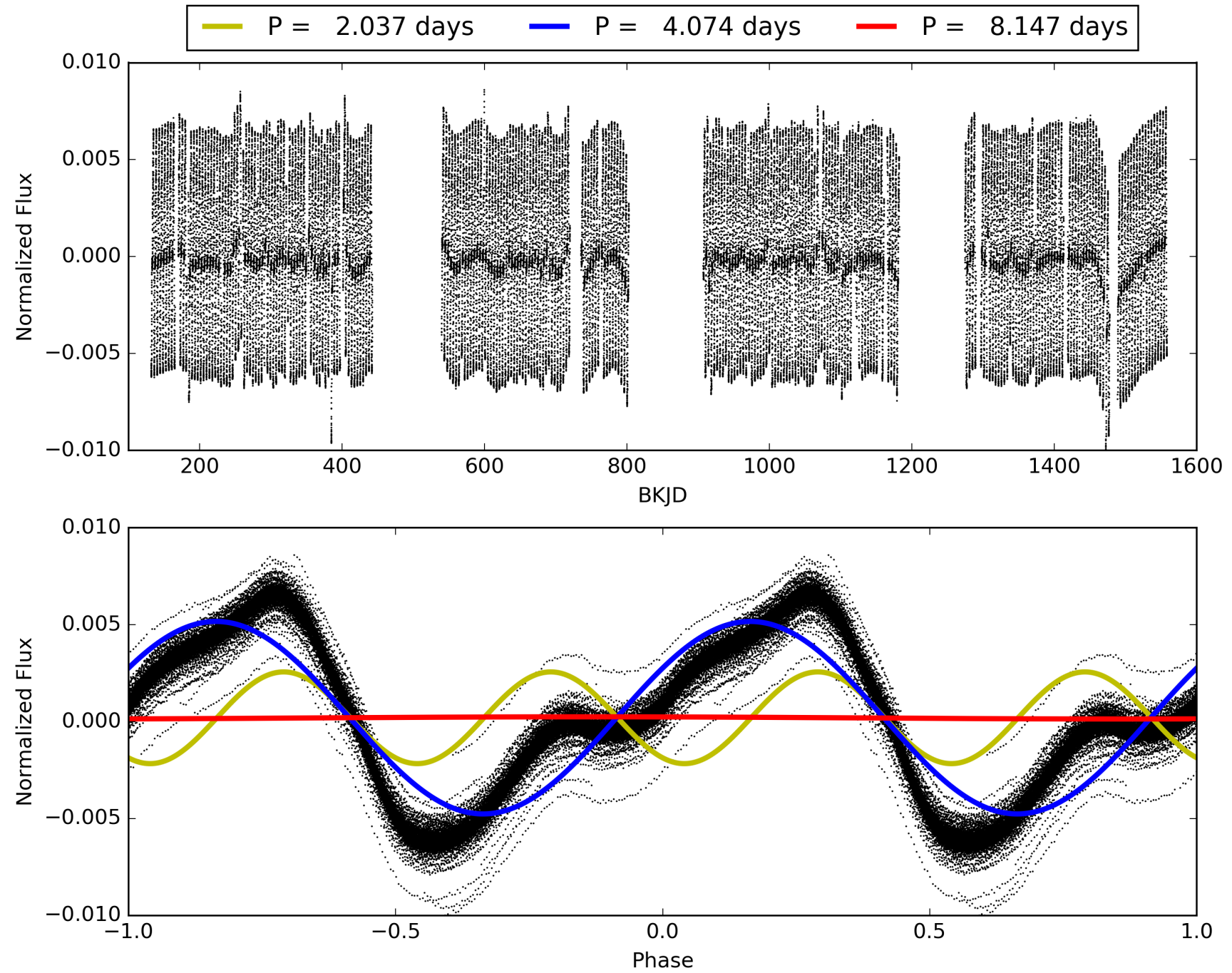
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 23:12:32 Z

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

TCE 005774743-01, PDC Light Curves

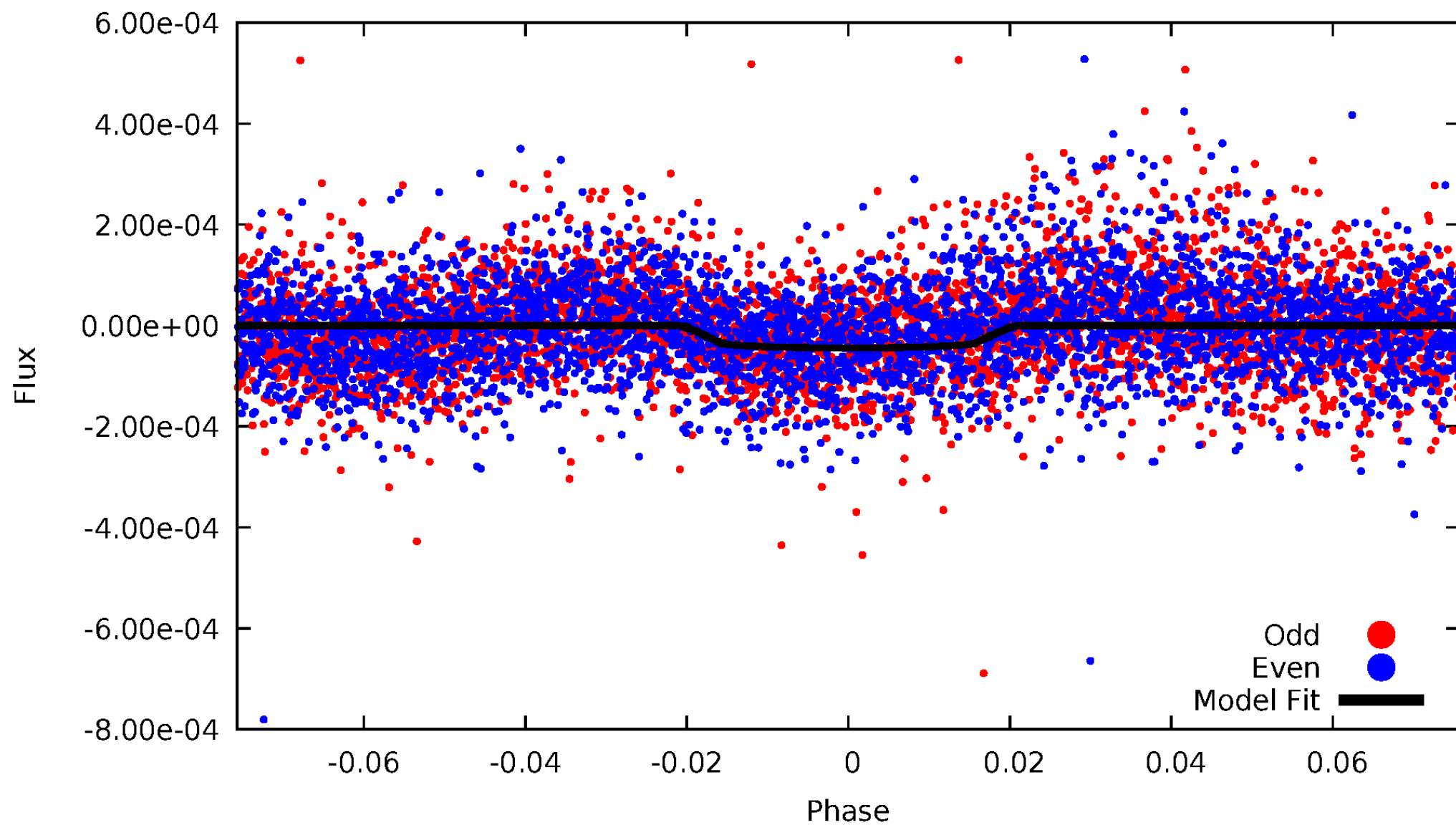


TCE 005774743-01



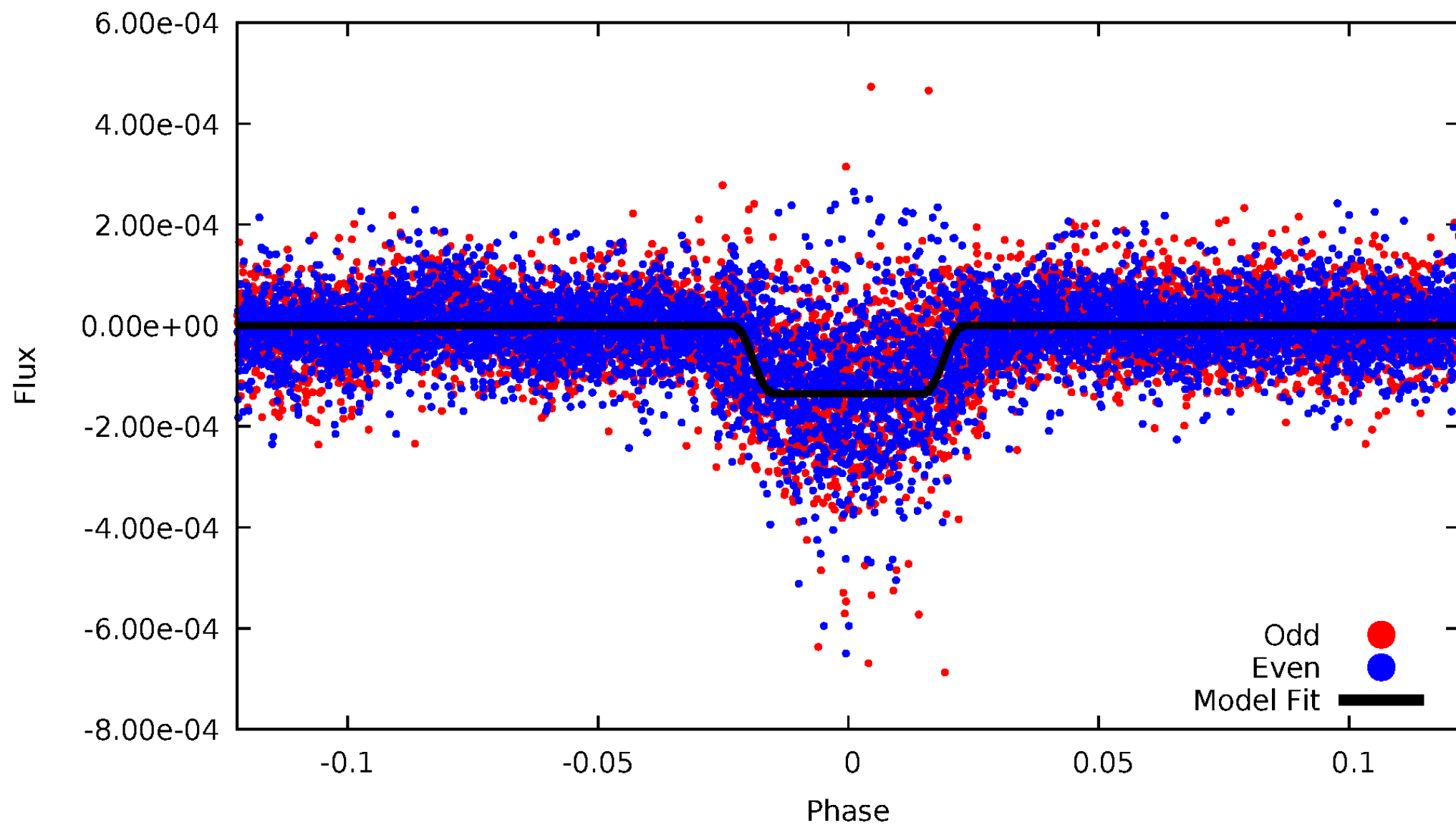
DV Odd/Even

TCE 005774743-01



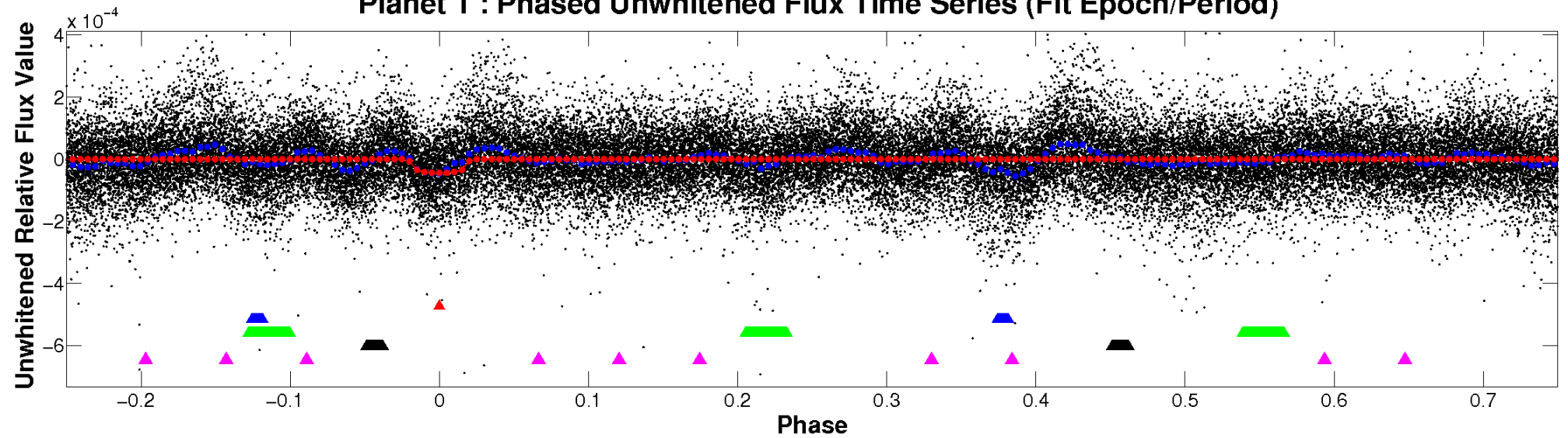
ALT Odd/Even

TCE 005774743-01

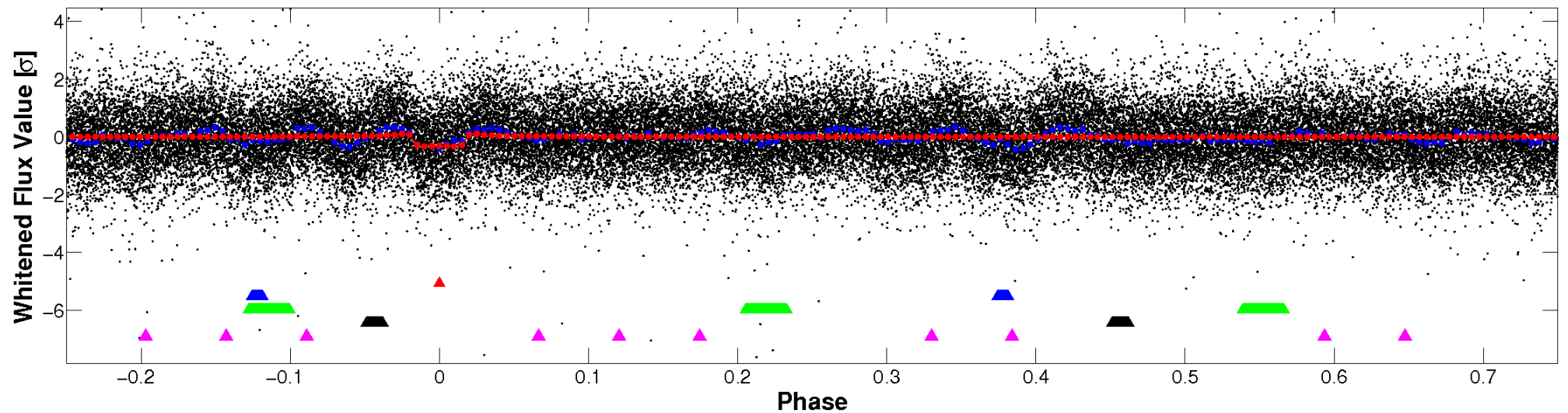


Non-Whitened Vs. Whitened Light Curve

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

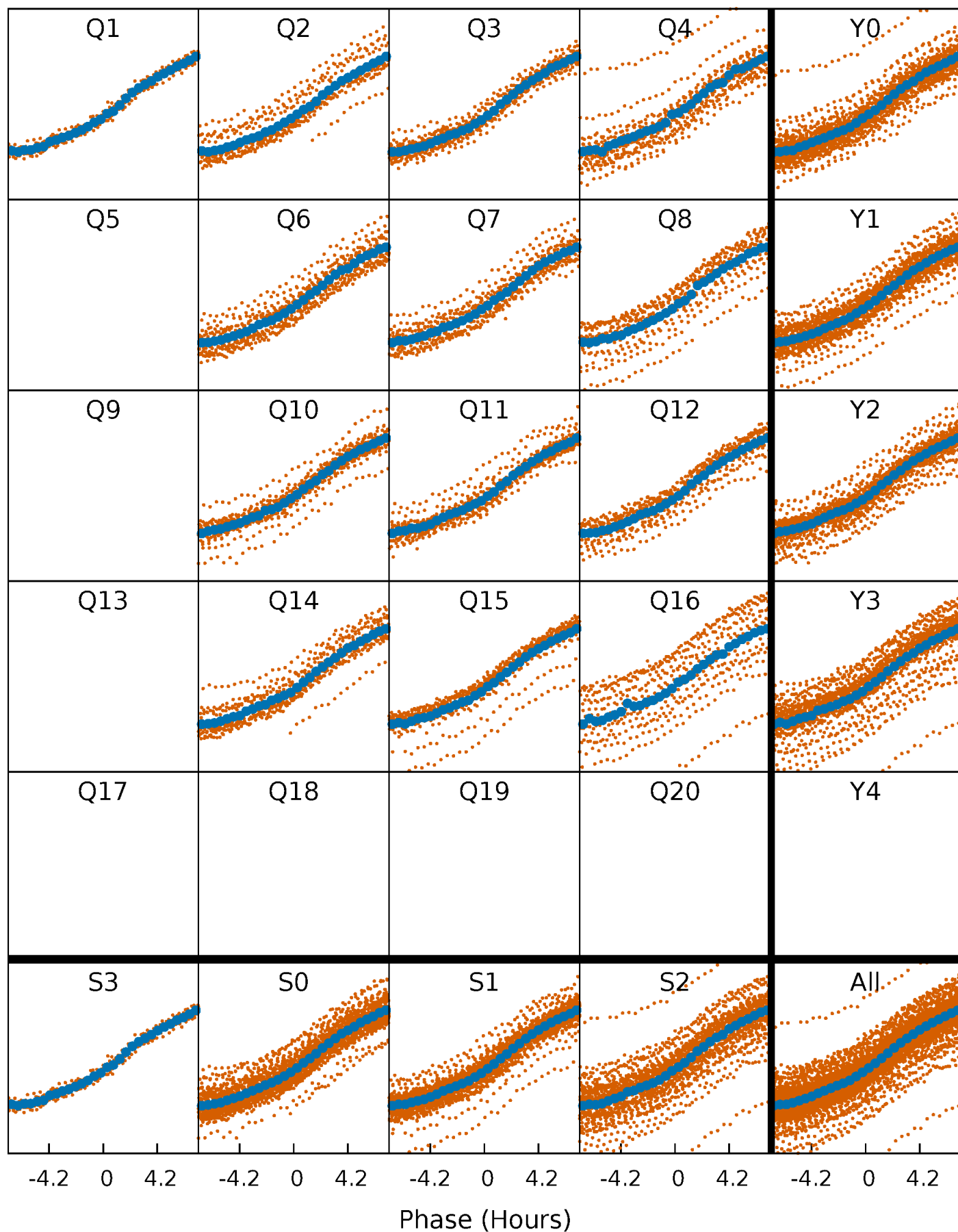


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



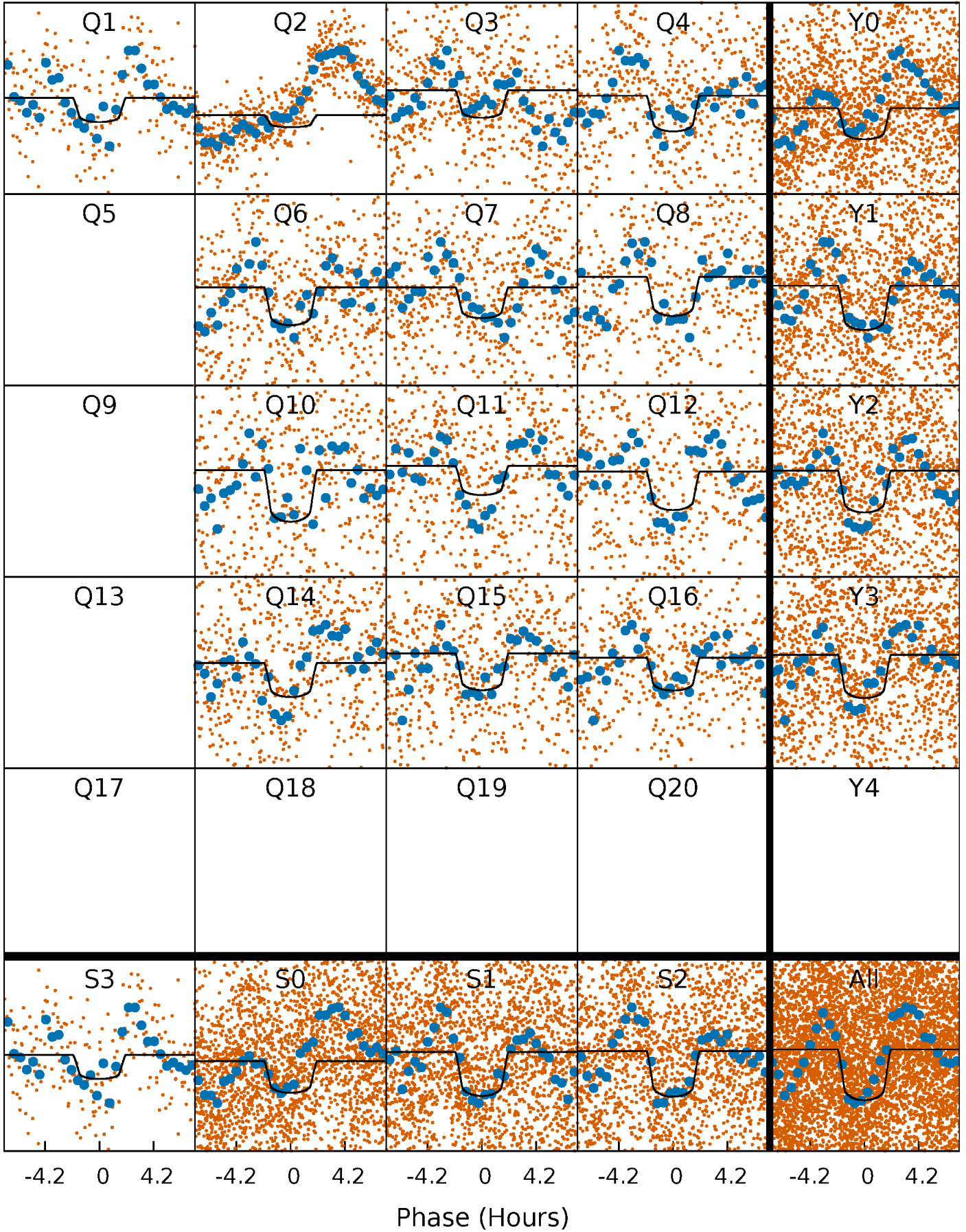
PDC Quarter-Phased Transit Curves

TCE 005774743-01 P= 4.073588 Days $T_0=133.567046$ (BKJD)



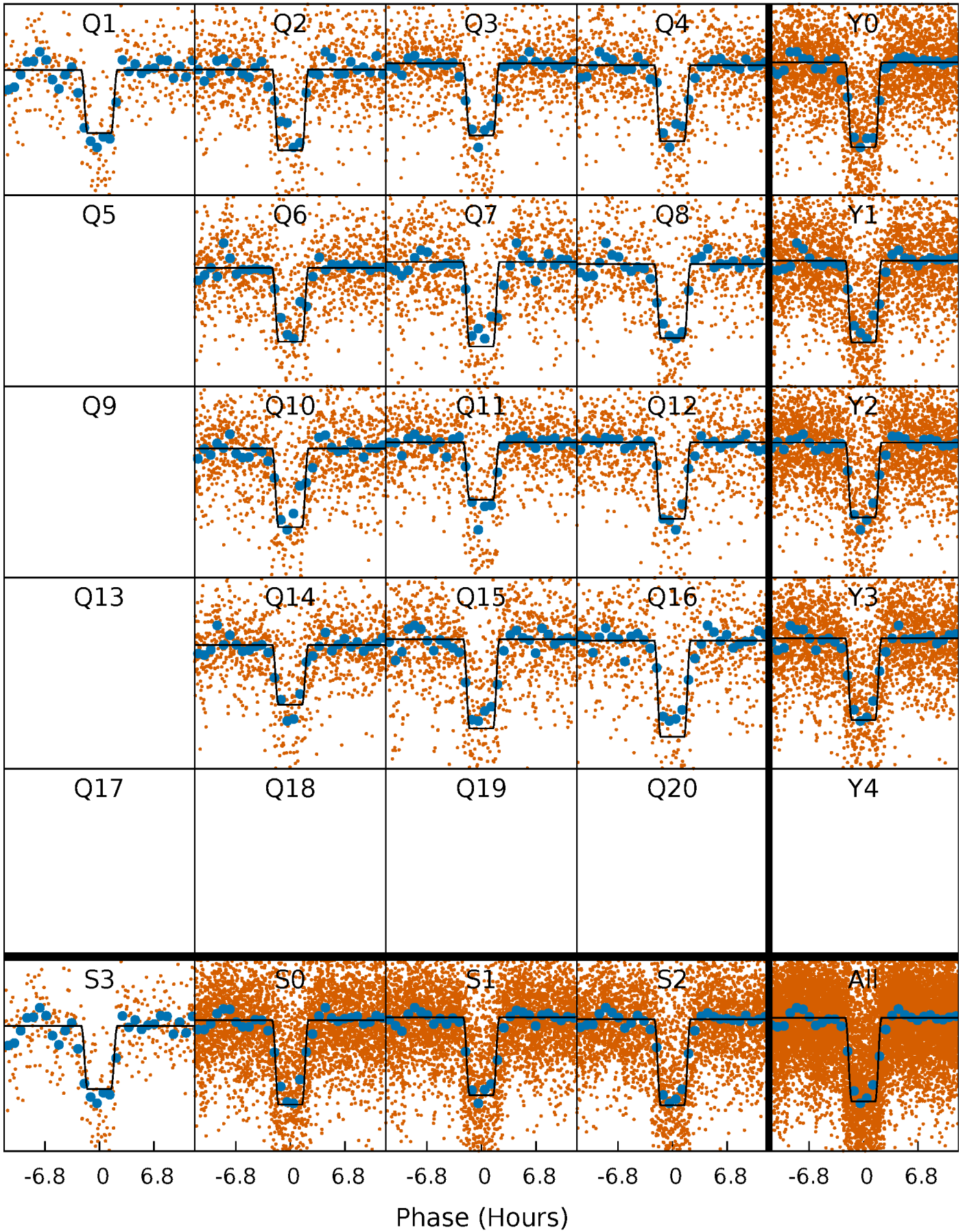
DV Quarter-Phased Transit Curves

TCE 005774743-01 P= 4.073588 Days $T_0=133.567046$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

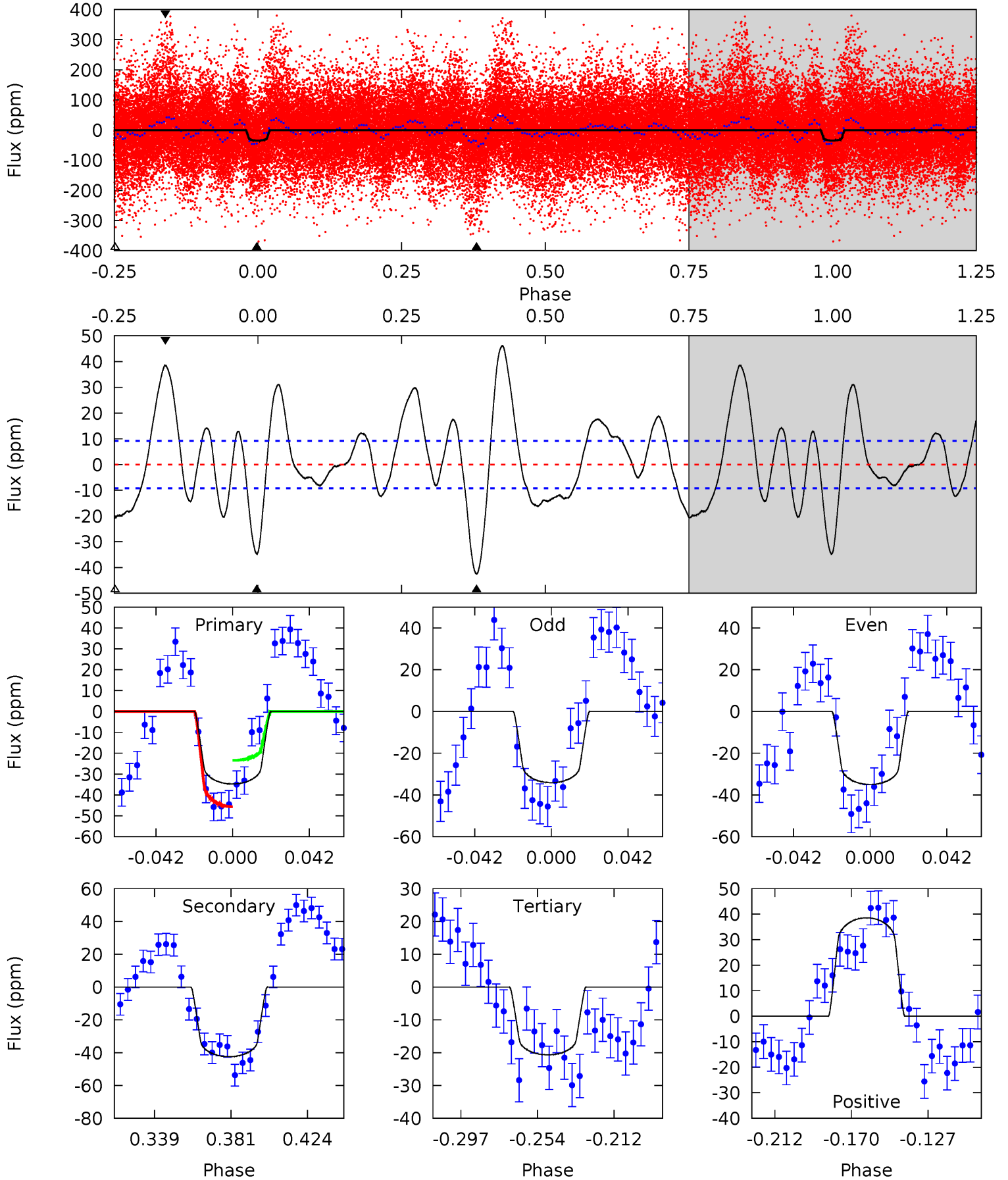
TCE 005774743-01 P= 4.073596 Days $T_0=133.555782$ (BKJD)



DV Model-Shift Uniqueness Test

005774743-01, P = 4.073588 Days, E = 129.493458 Days

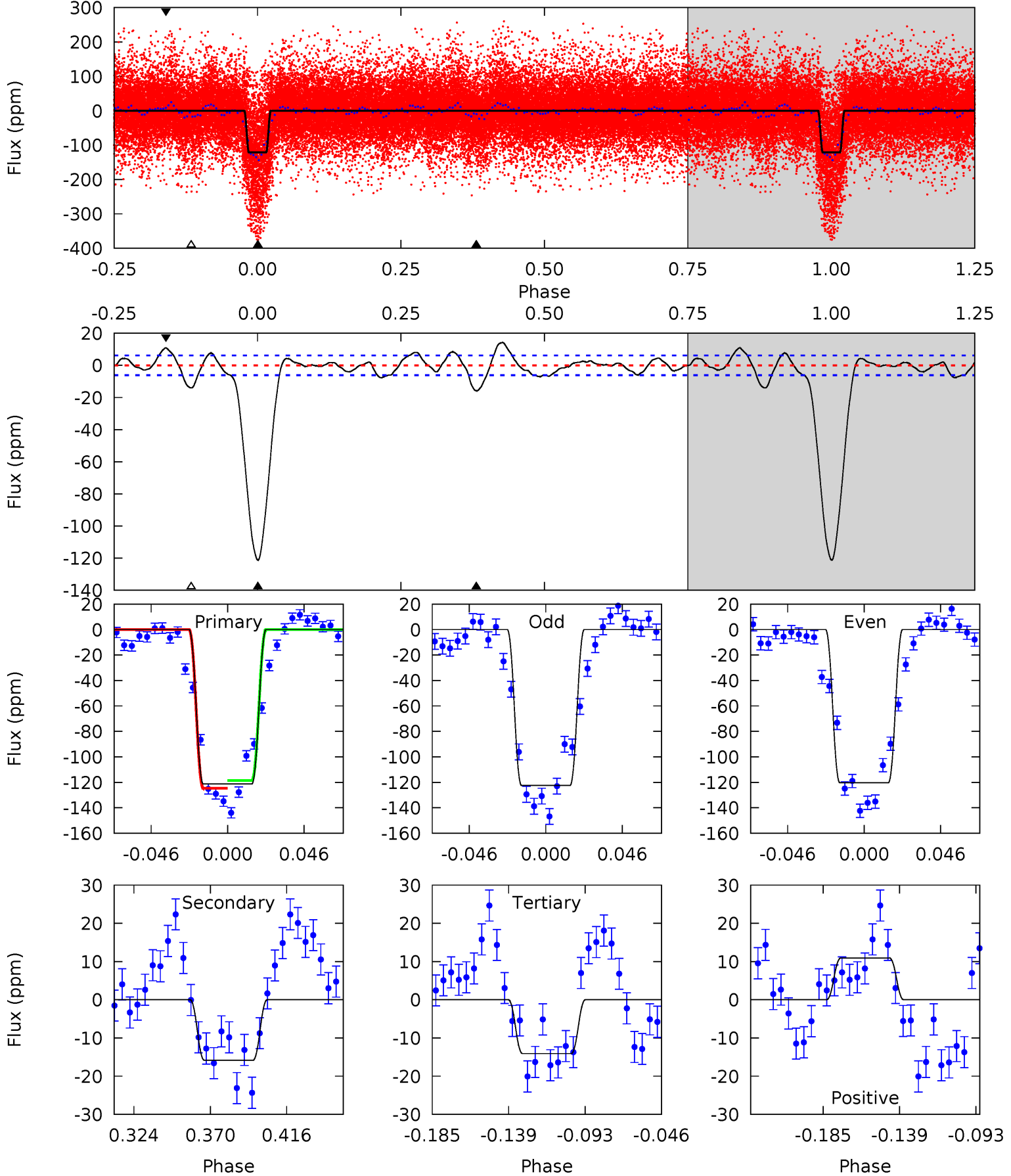
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.9	21.9	10.7	19.9	4.74	2.03	7.57	7.26	-1.96	11.2	2.02	0.22	1.04	0.52	5.75



Alt Model-Shift Uniqueness Test

005774743-01, P = 4.073596 Days, E = 129.482186 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
93.0	12.2	10.8	8.39	4.72	1.99	3.49	82.2	84.6	1.34	3.76	0.82	0.98	0.11	2.32



Stellar Parameters For KIC 005774743

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8203^{+228}_{-342}	$3.739^{+0.413}_{-0.110}$	$-0.080^{+0.250}_{-0.400}$	$3.206^{+0.828}_{-1.419}$	$2.054^{+0.330}_{-0.495}$	$0.088^{+0.345}_{-0.036}$
	+3%/-4%	+11%/-3%	+312%/-500%	+26%/-44%	+16%/-24%	+393%/-41%
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 005774743-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-42 ± 2	$2.30^{+0.63}_{-0.65}$	3449^{+271}_{-397}	7649^{+1030}_{-758}	18^{+15}_{-6}
Alt.	-16 ± 1	$3.66^{+0.93}_{-0.84}$	3437^{+291}_{-410}	4657^{+291}_{-268}	$2.595^{+1.566}_{-0.889}$

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

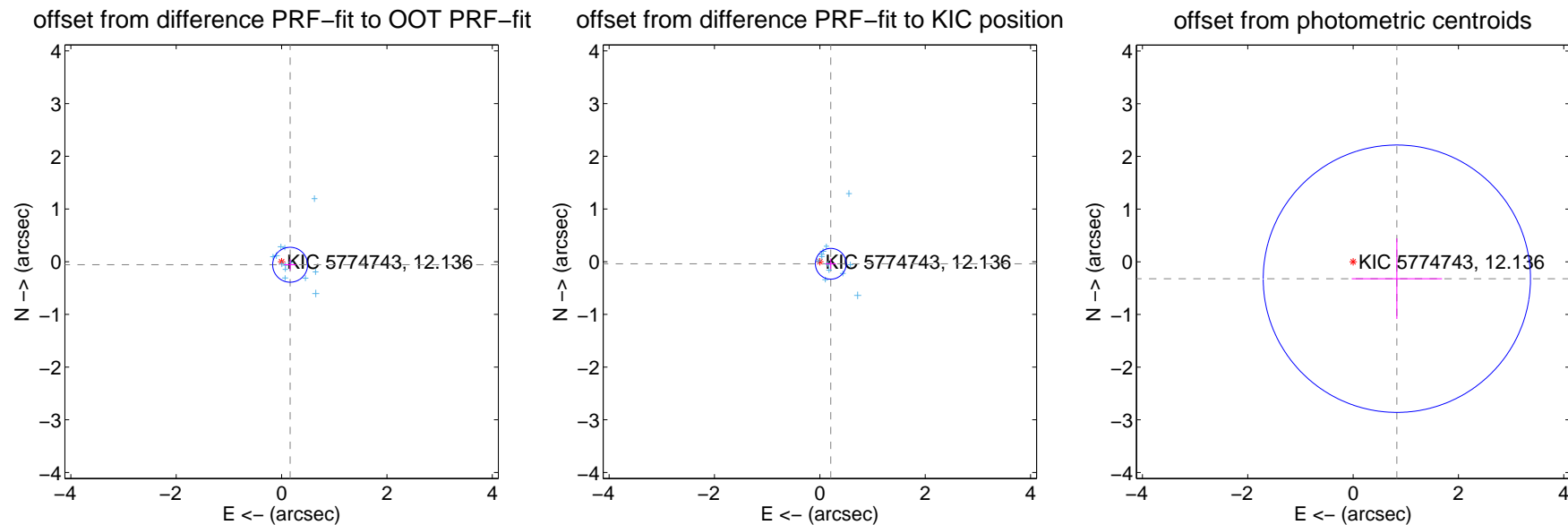
DV Centroid Data

Supplemental centroid analysis for 005774743-01. Kepler magnitude: 12.14. Transit SNR 13.83

There are 13 quarters with good PRF difference image offsets

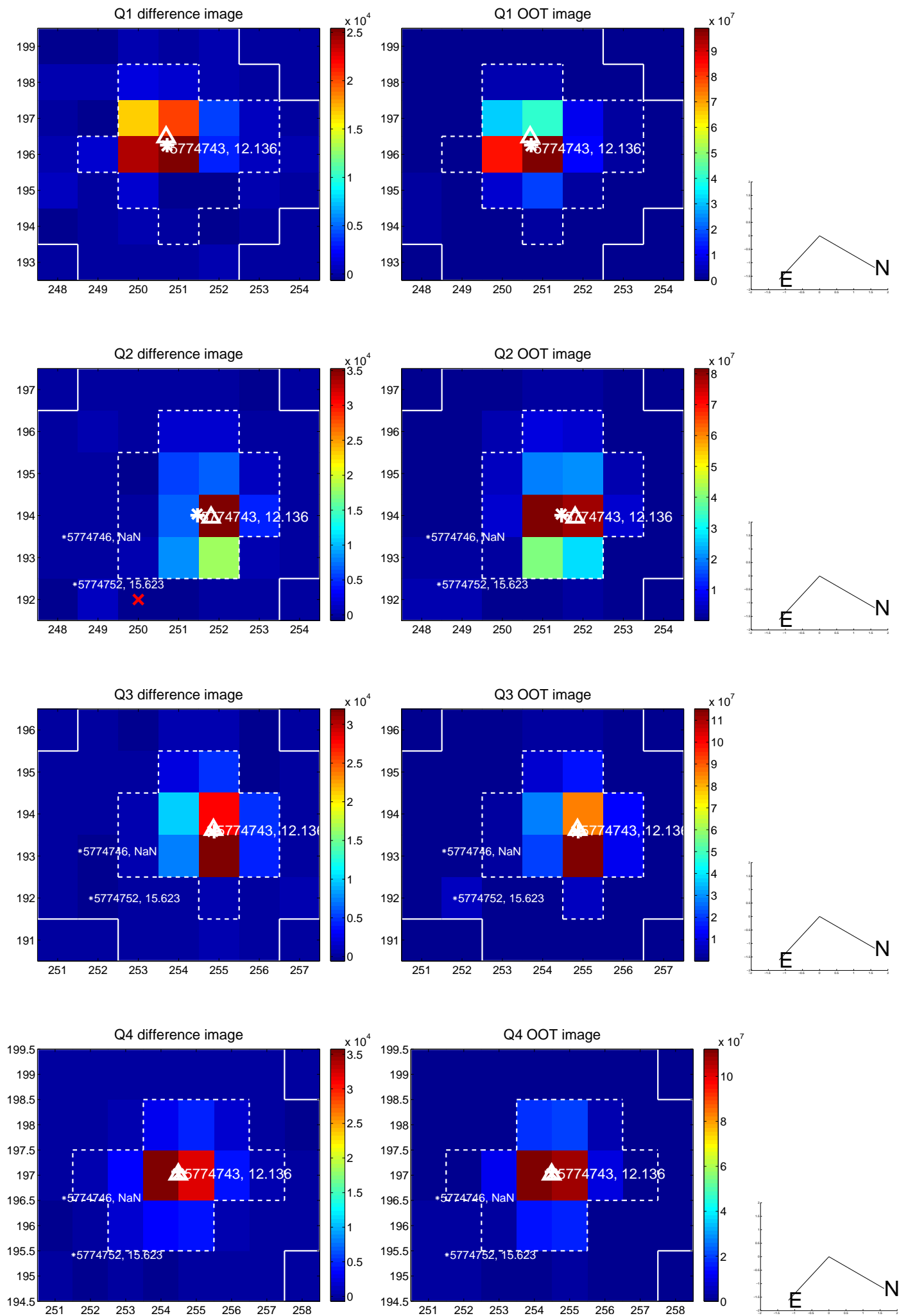
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.172 ± 0.111	1.56	-0.162 ± 0.111	-0.058 ± 0.105
PRF-fit source offset from KIC position	0.212 ± 0.097	2.17	-0.208 ± 0.097	-0.039 ± 0.100
photometric centroid source offset	0.89 ± 0.85	1.05	-0.83 ± 0.86	-0.32 ± 0.76

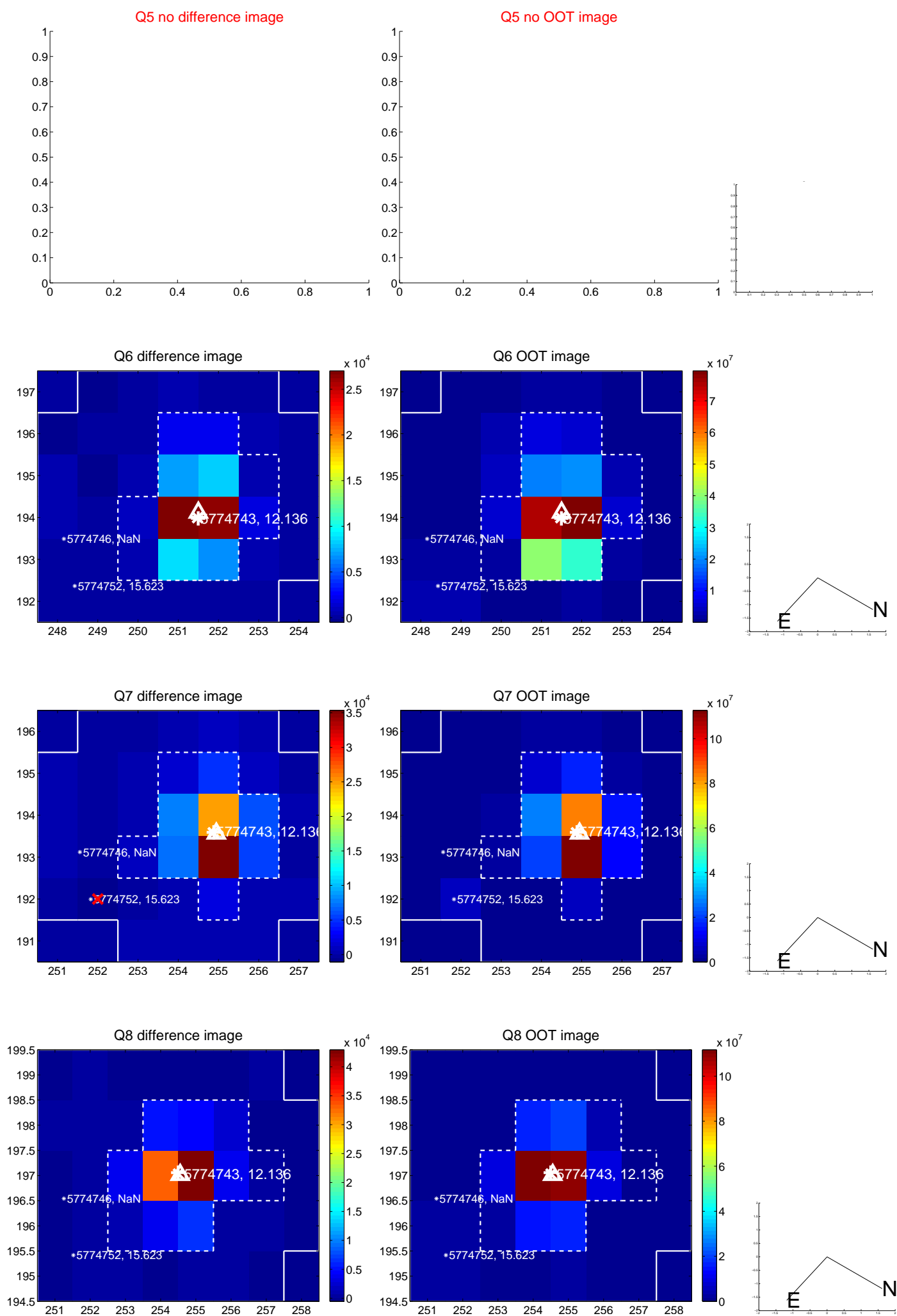


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

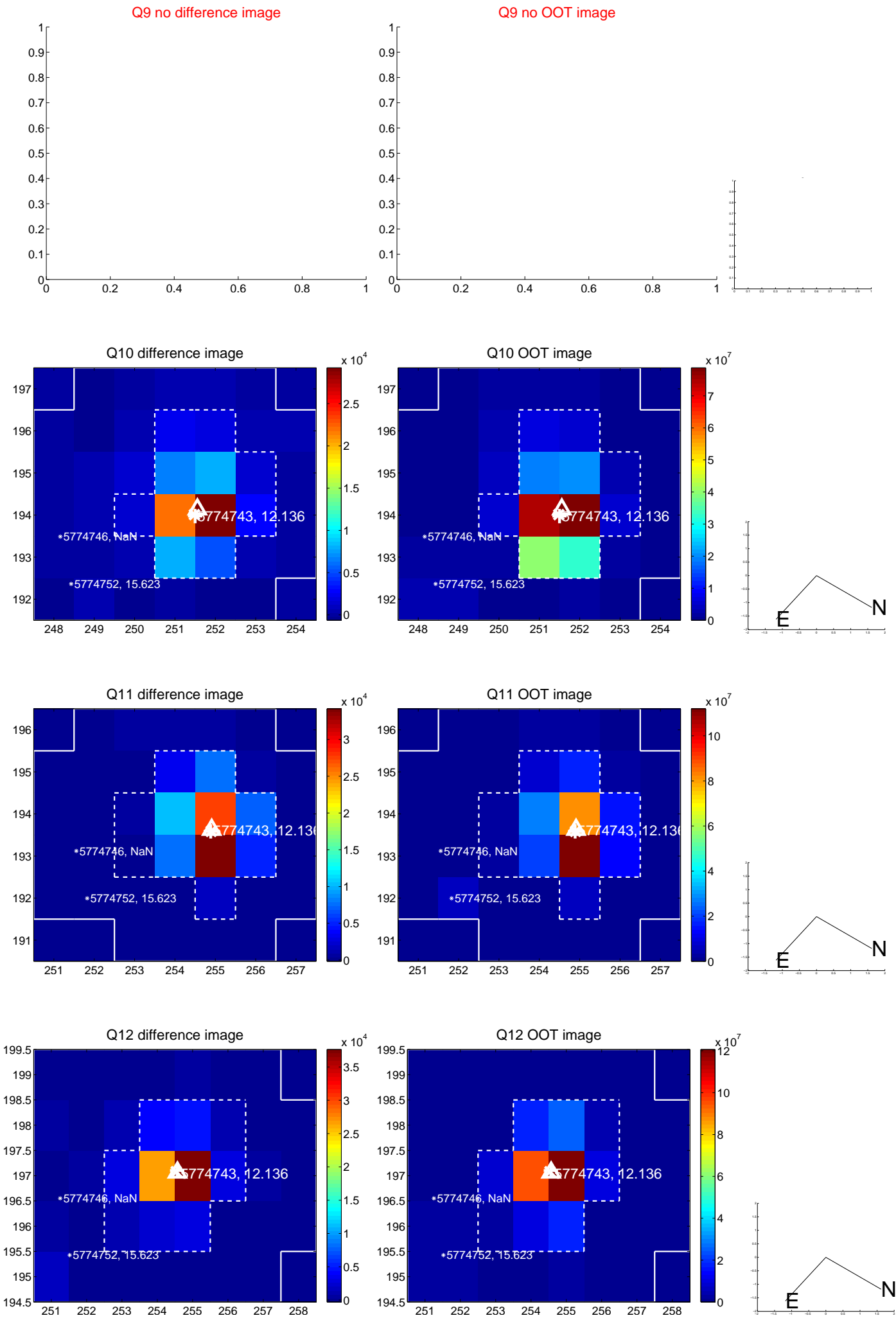
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



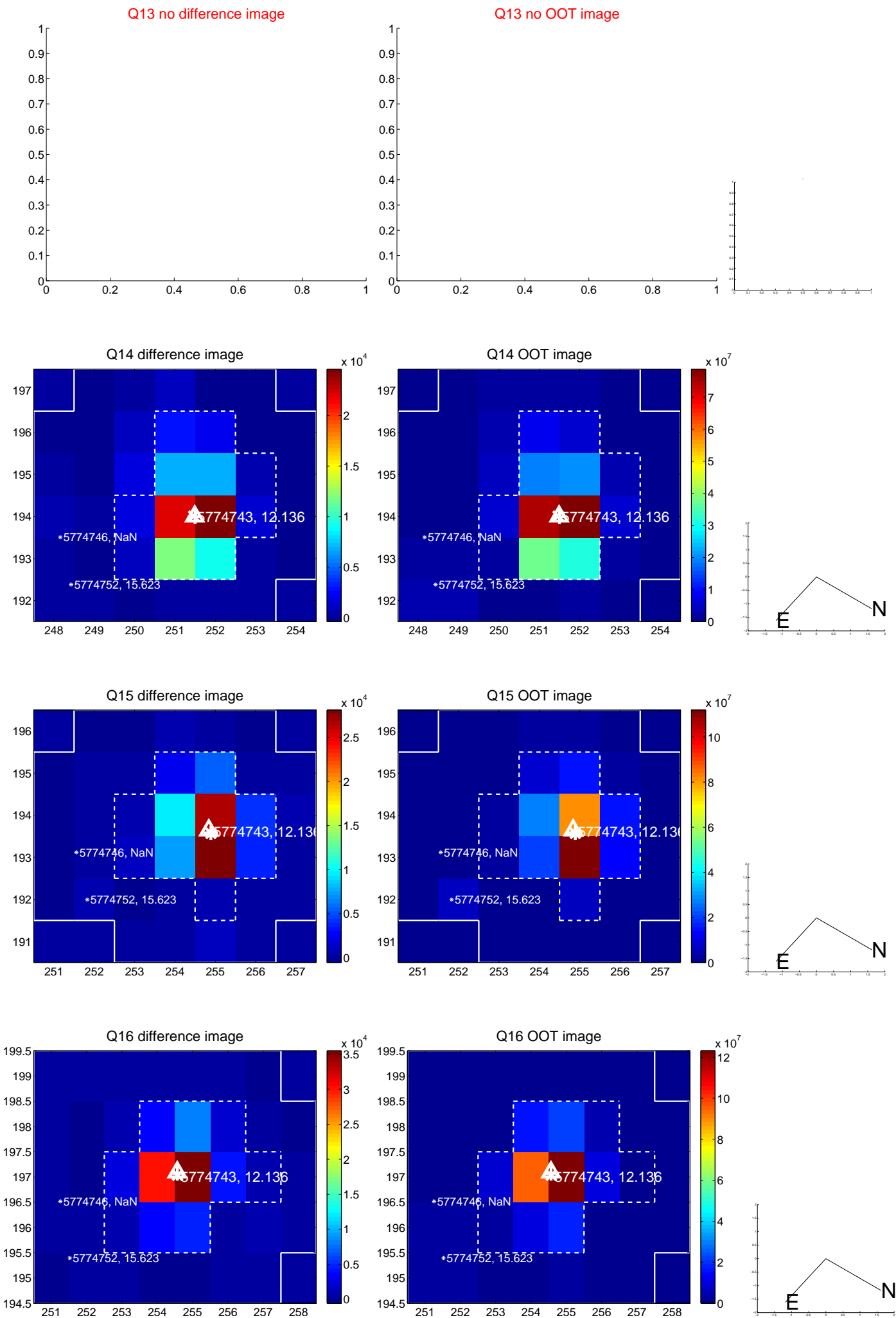
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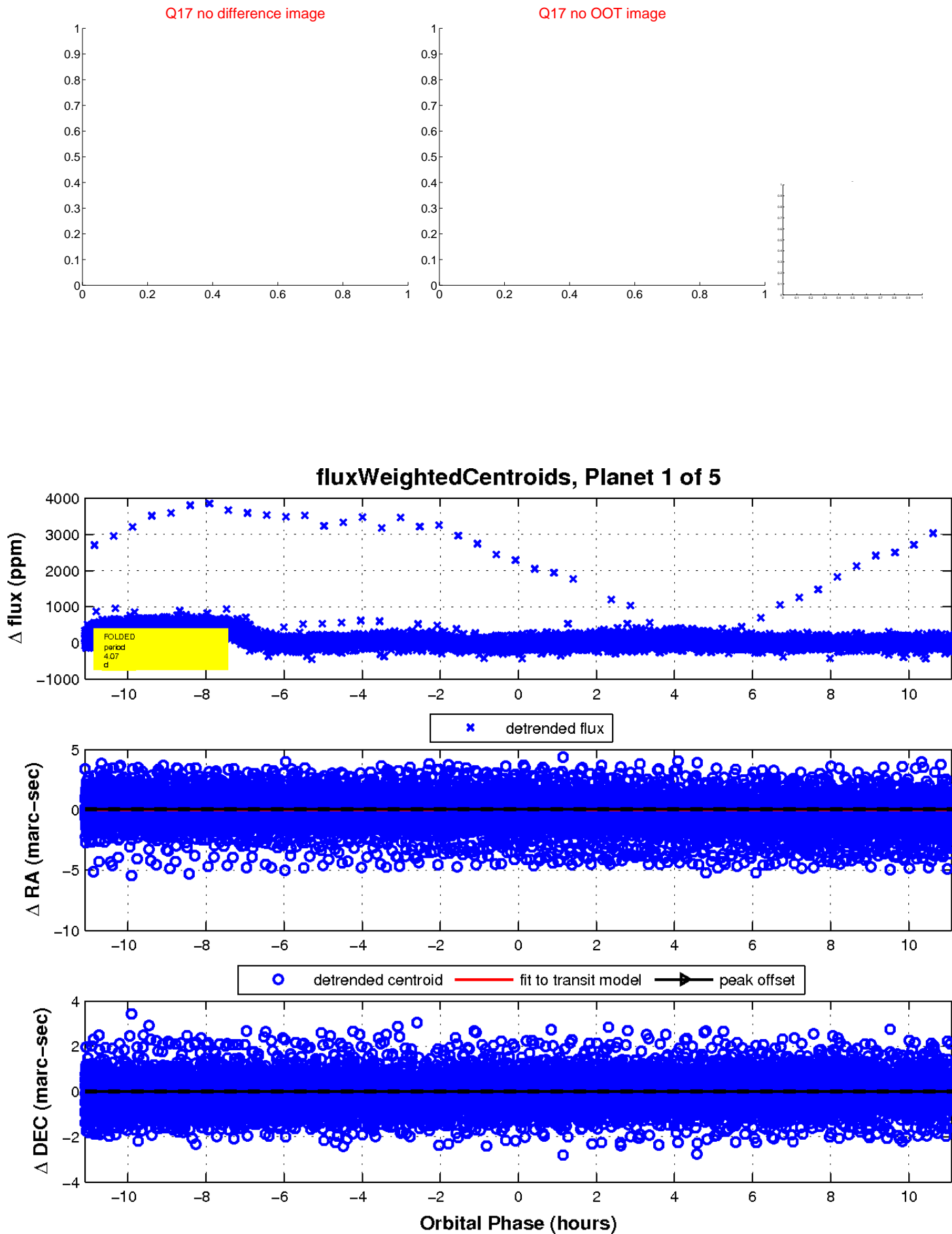
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

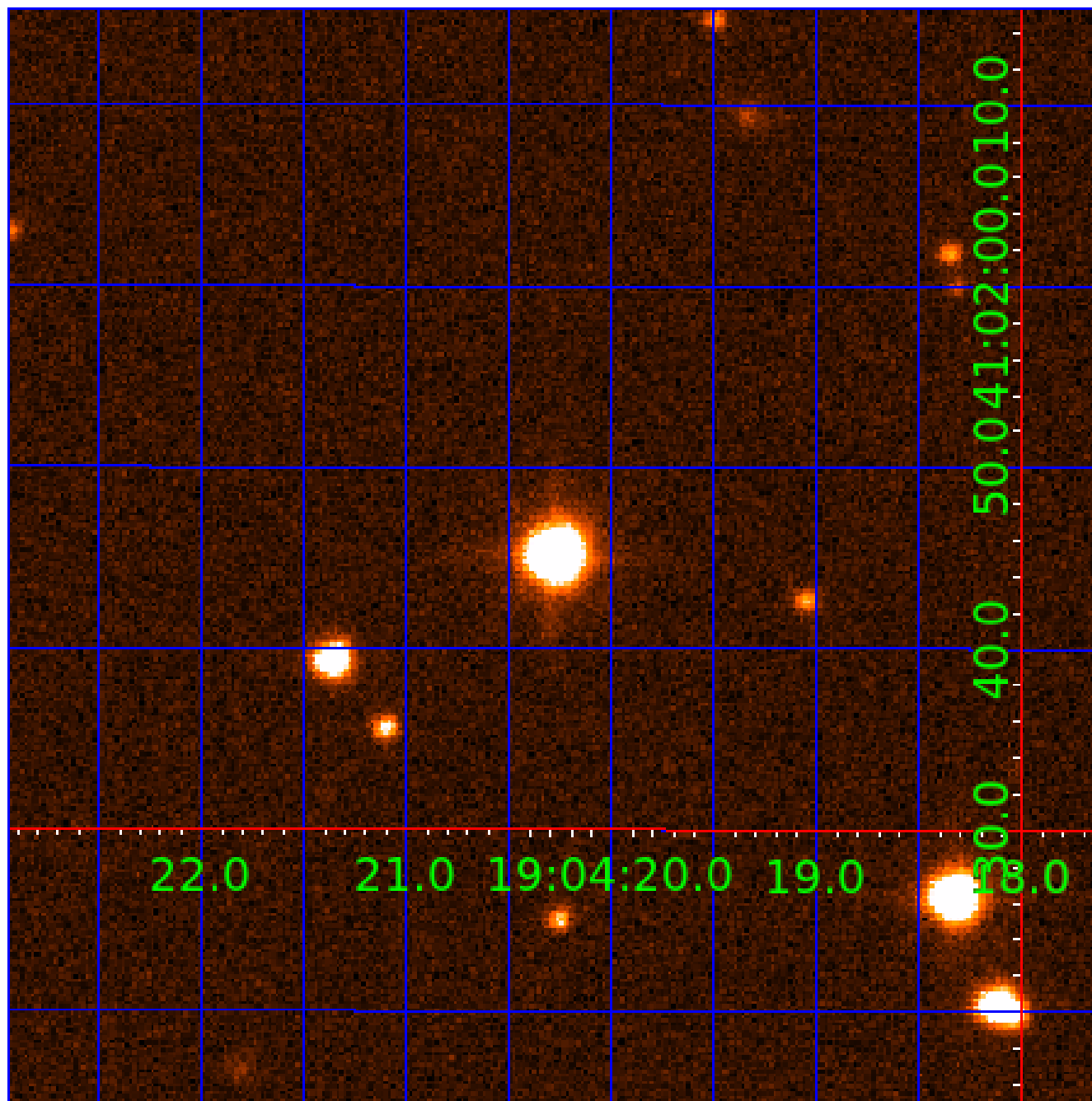


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005774743

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})
005774743-01	OBS	No	4.073588	133.567045	44.5	3.700	12.9	13.8	3.21	8203	2.51	10346.45
005774743-02	OBS	No	2.036752	133.084378	126.2	4.500	12.4	-1.0	3.21	8203	3.64	26072.13
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005774743-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV
005774743-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS
005774743-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS
005774743-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005774743-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

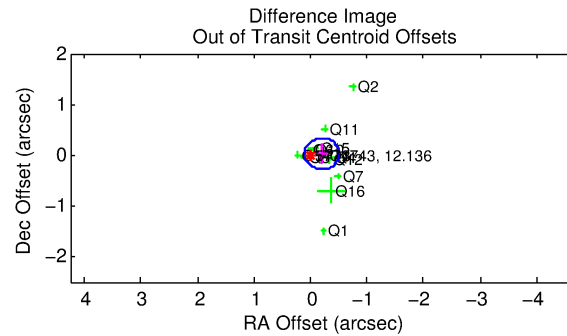
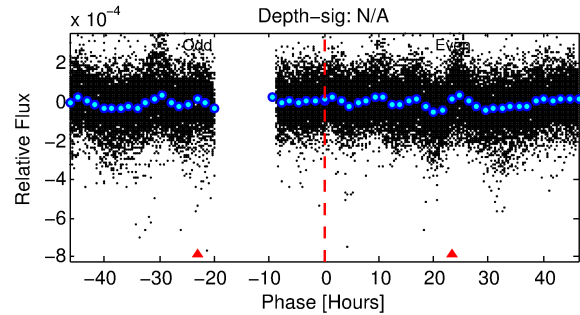
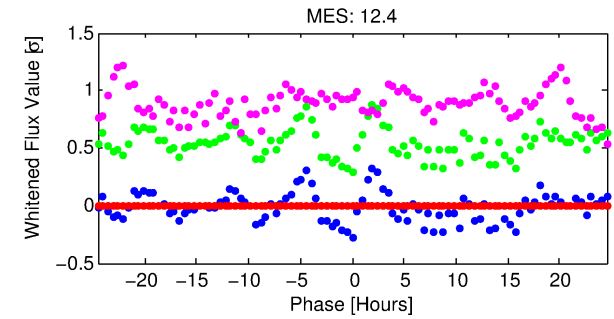
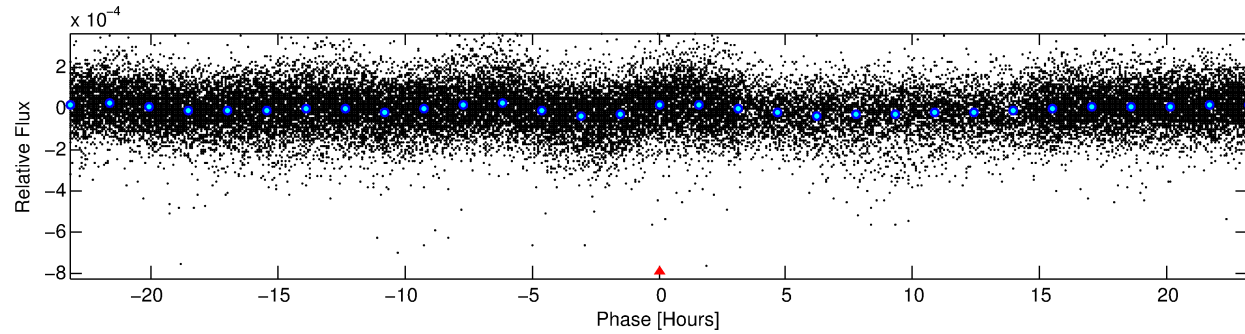
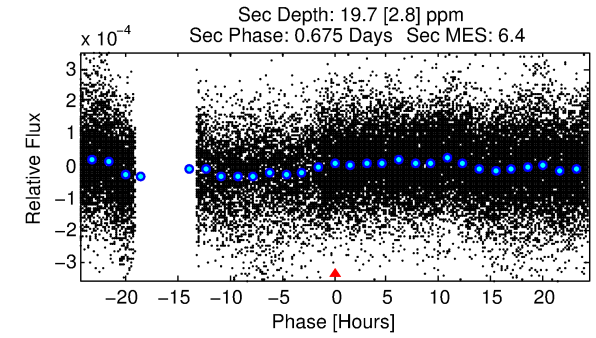
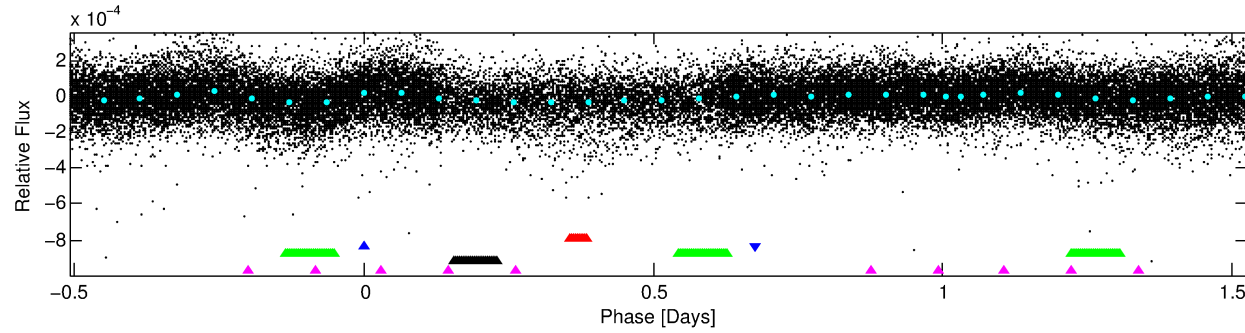
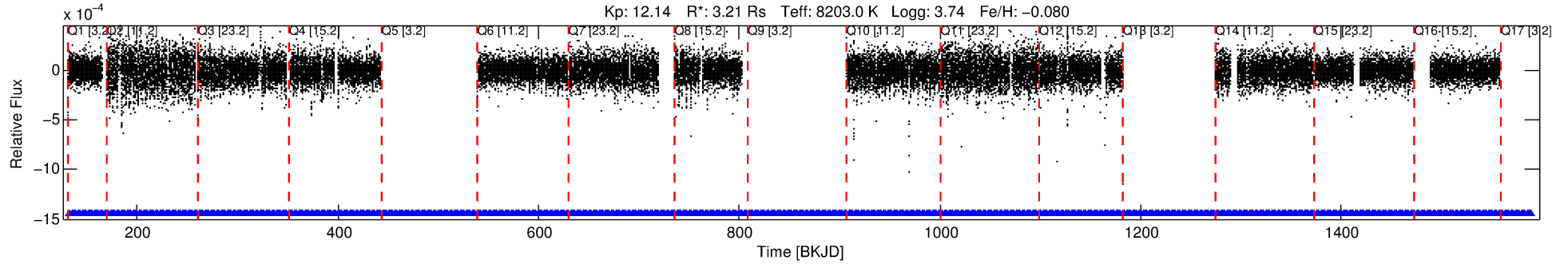
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005774743-02

No Significant Match Found

DV One-Page Summary

KIC: 5774743 Candidate: 2 of 5 Period: 2.037 d



TPS TCE Results:

Period = 2.03675 d
Epoch = 133.0844 BKJD

DV fit results are unavailable

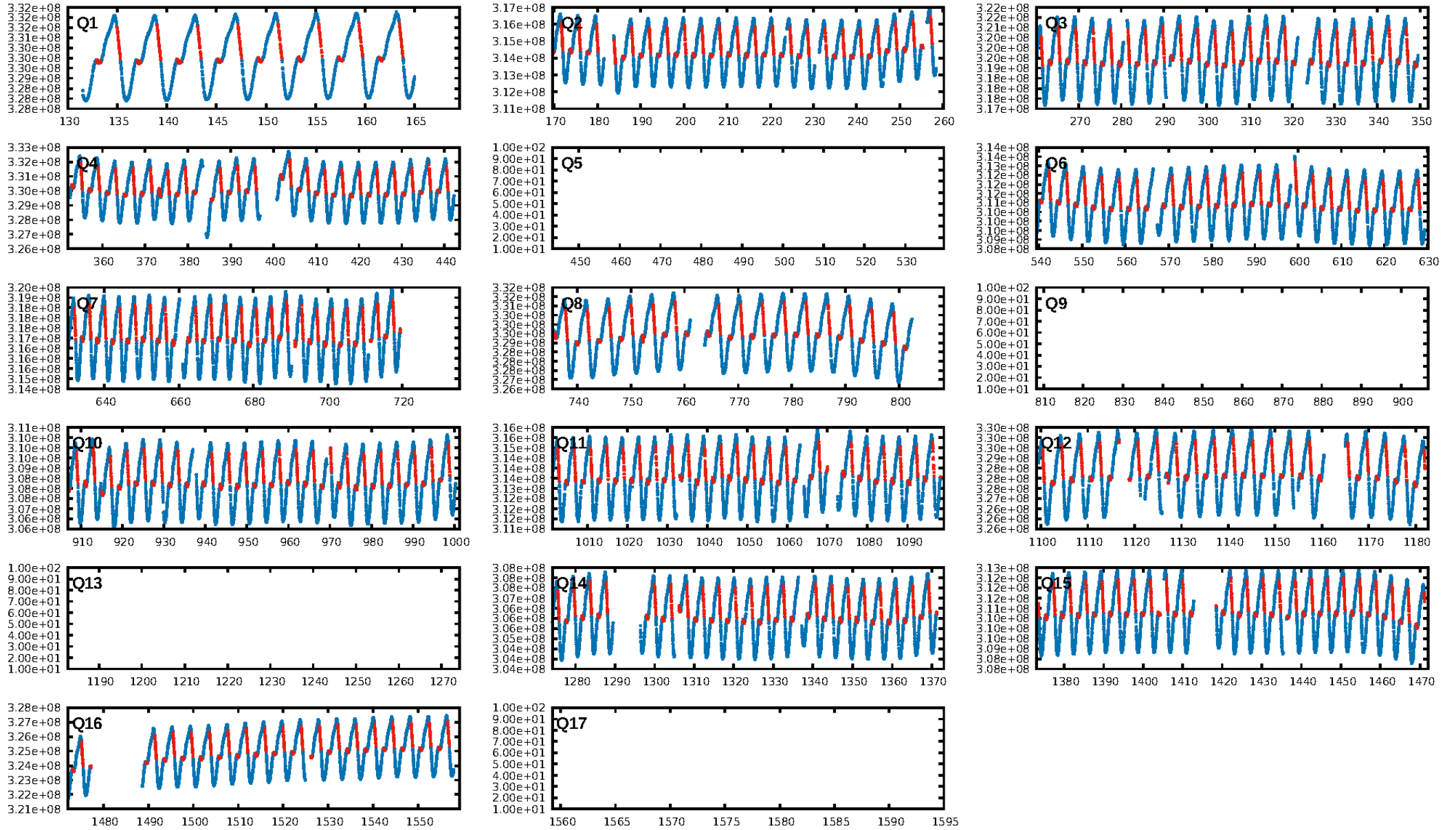
DV Diagnostic Results:

ShortPeriod-sig: 99.4% [2.73σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 8.90e-23
RollingBand-fgt: 1.00 [496/496]
GhostDiagnostic-chr: 0.2609
Centroid-sig: 61.4%
Centroid-so: 0.215 arcsec [3.81σ]
OotOffset-rm: 0.199 arcsec [1.94σ]
KicOffset-rm: 0.247 arcsec [2.26σ]
OotOffset-st: 4/4/4/1 [13]
KicOffset-st: 4/4/4/1 [13]
DiffImageQuality-fgm: 1.00 [13/13]
DiffImageOverlap-fno: 0.00 [0/13]

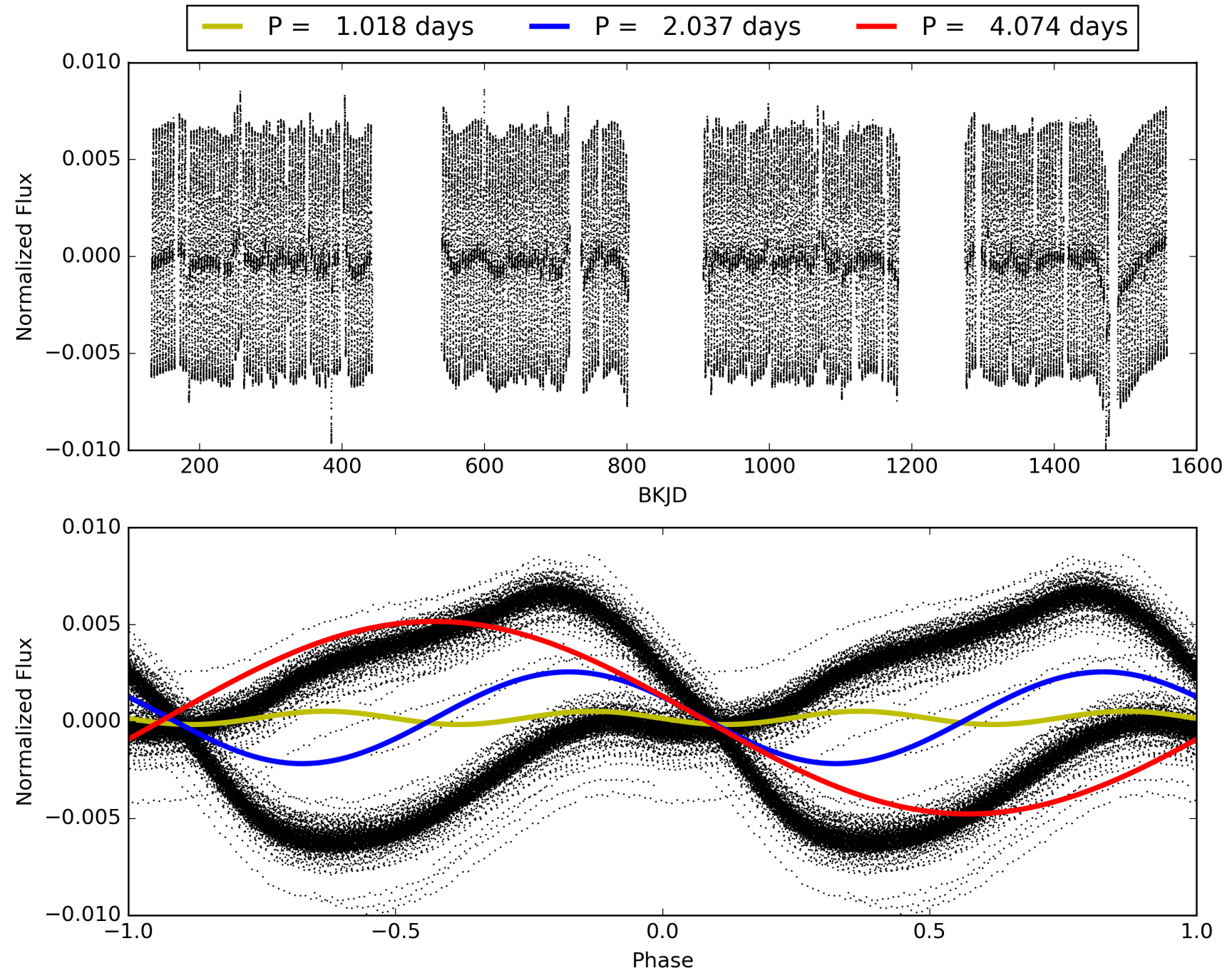
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 23:12:40 Z

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

TCE 005774743-02, PDC Light Curves

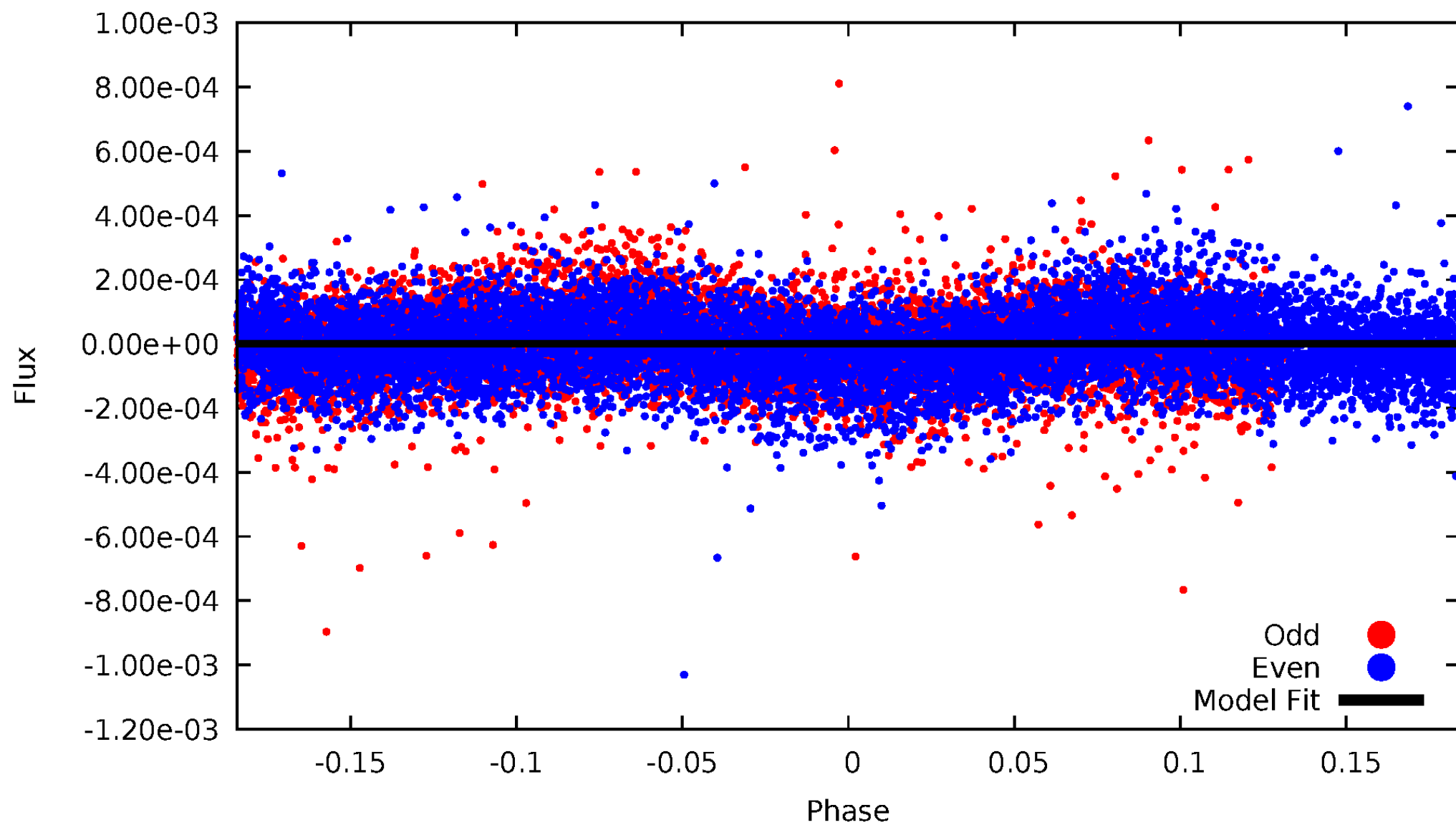


TCE 005774743-02



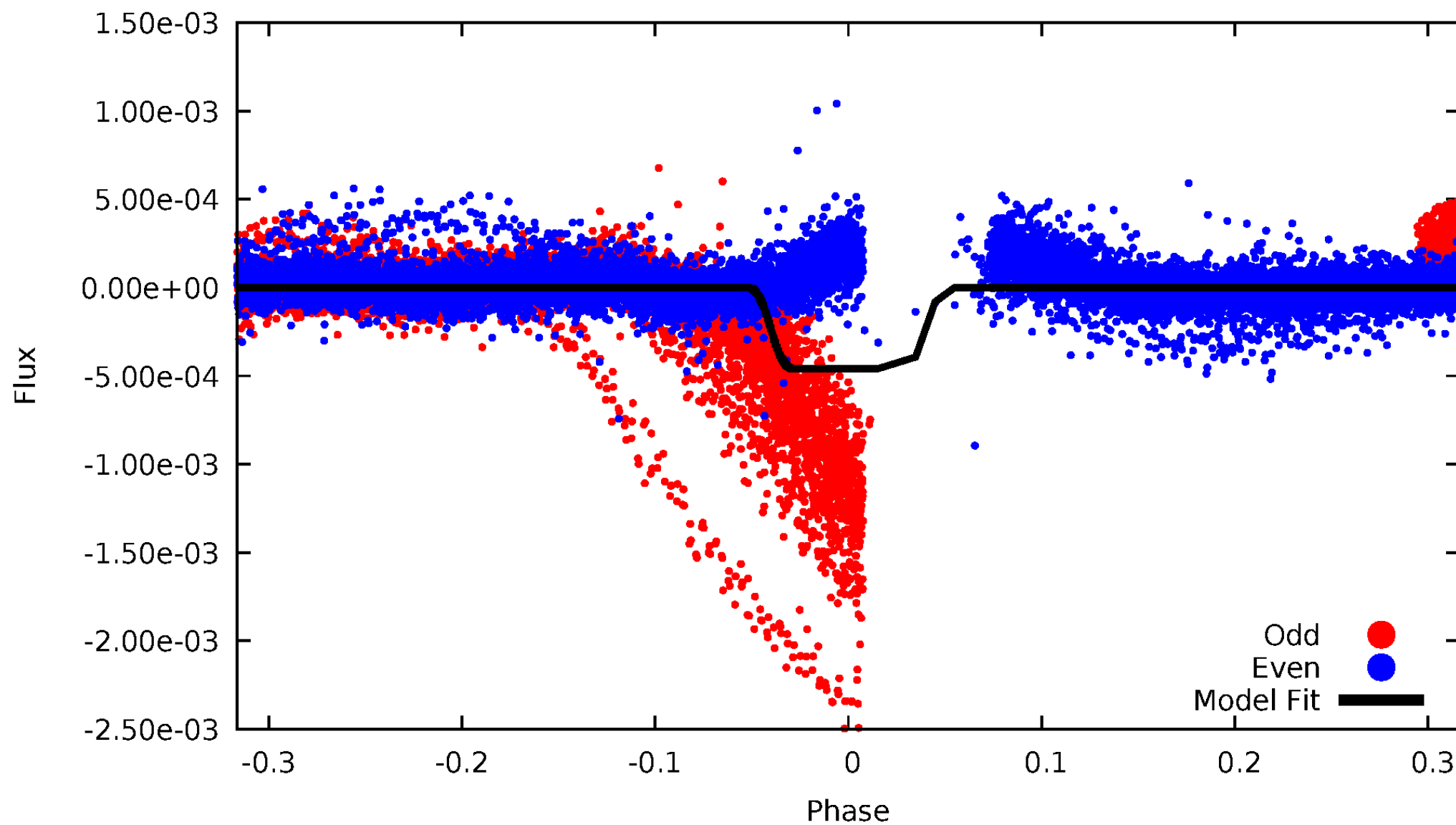
DV Odd/Even

TCE 005774743-02



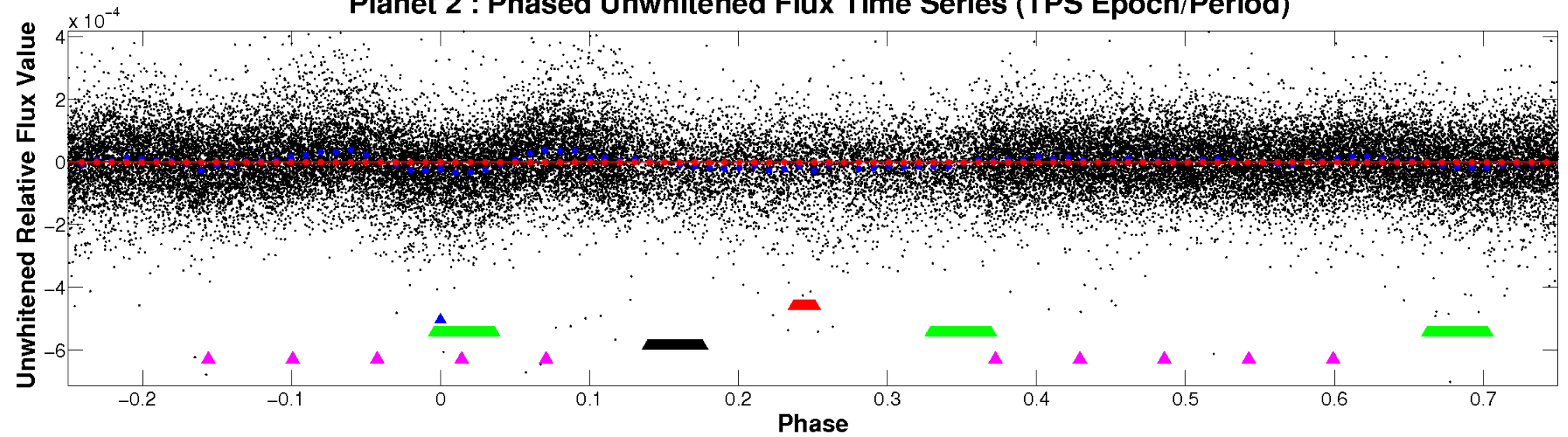
ALT Odd/Even

TCE 005774743-02

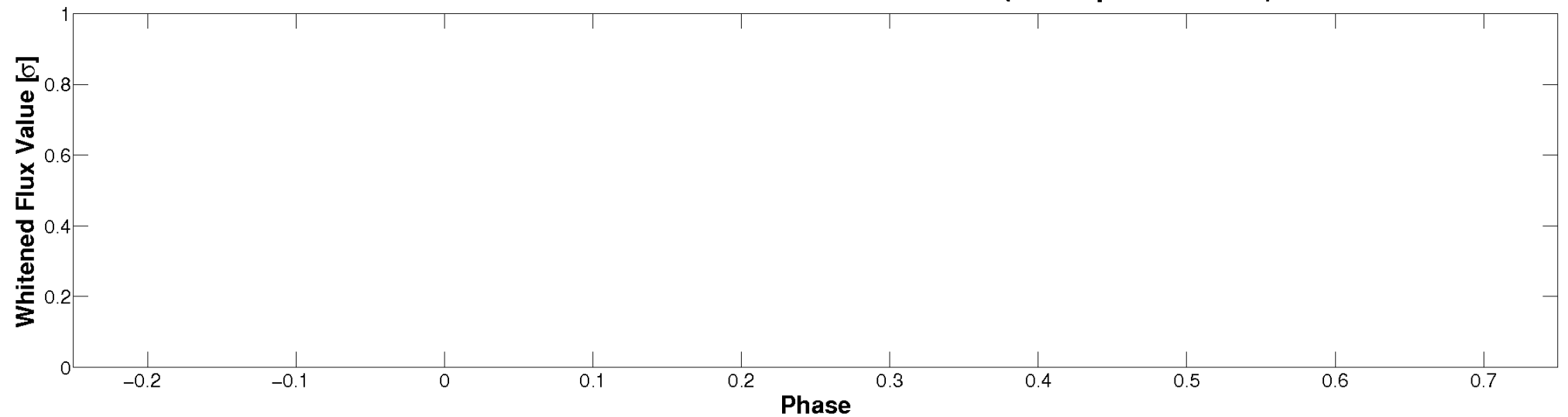


Non-Whitened Vs. Whitened Light Curve

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

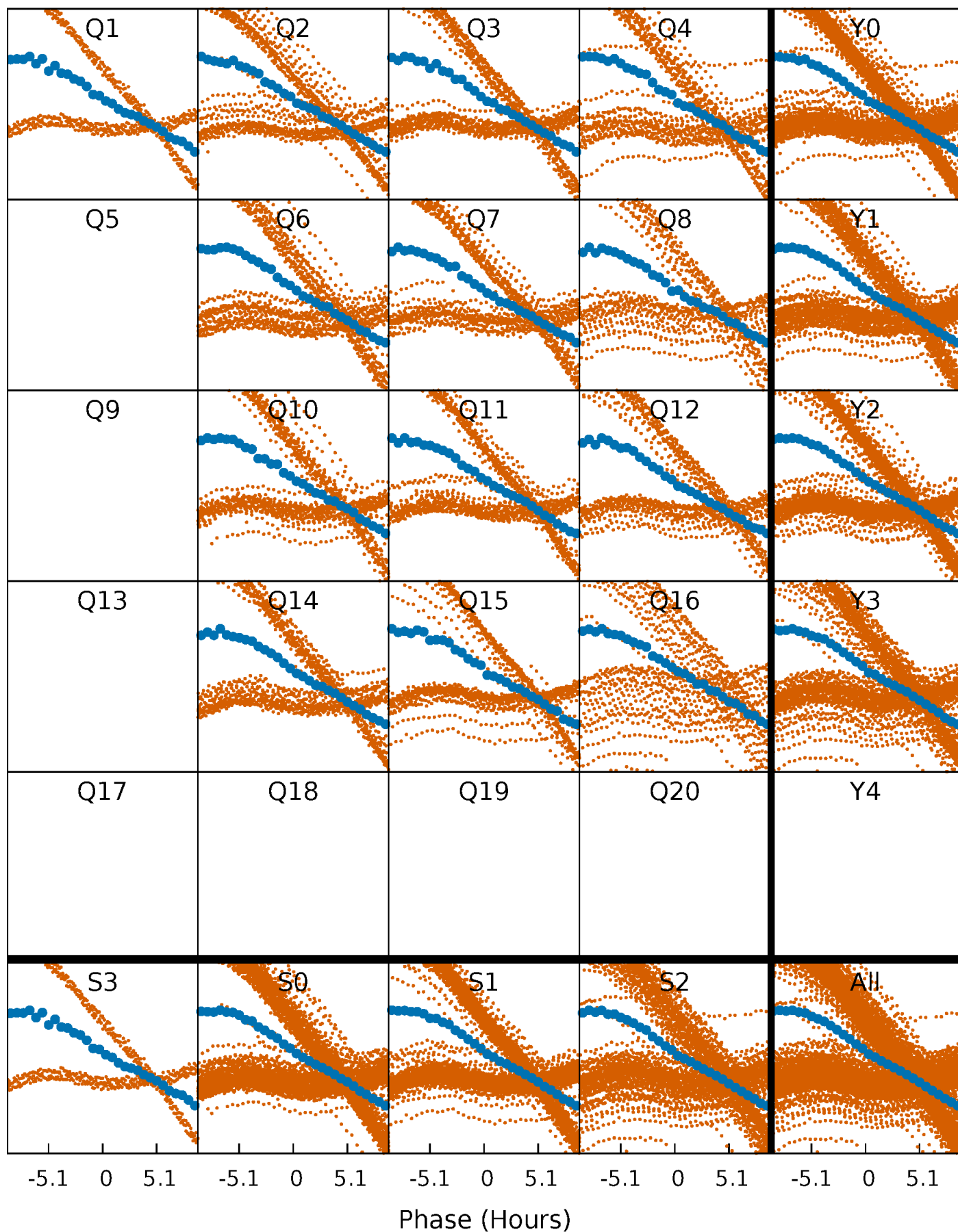


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



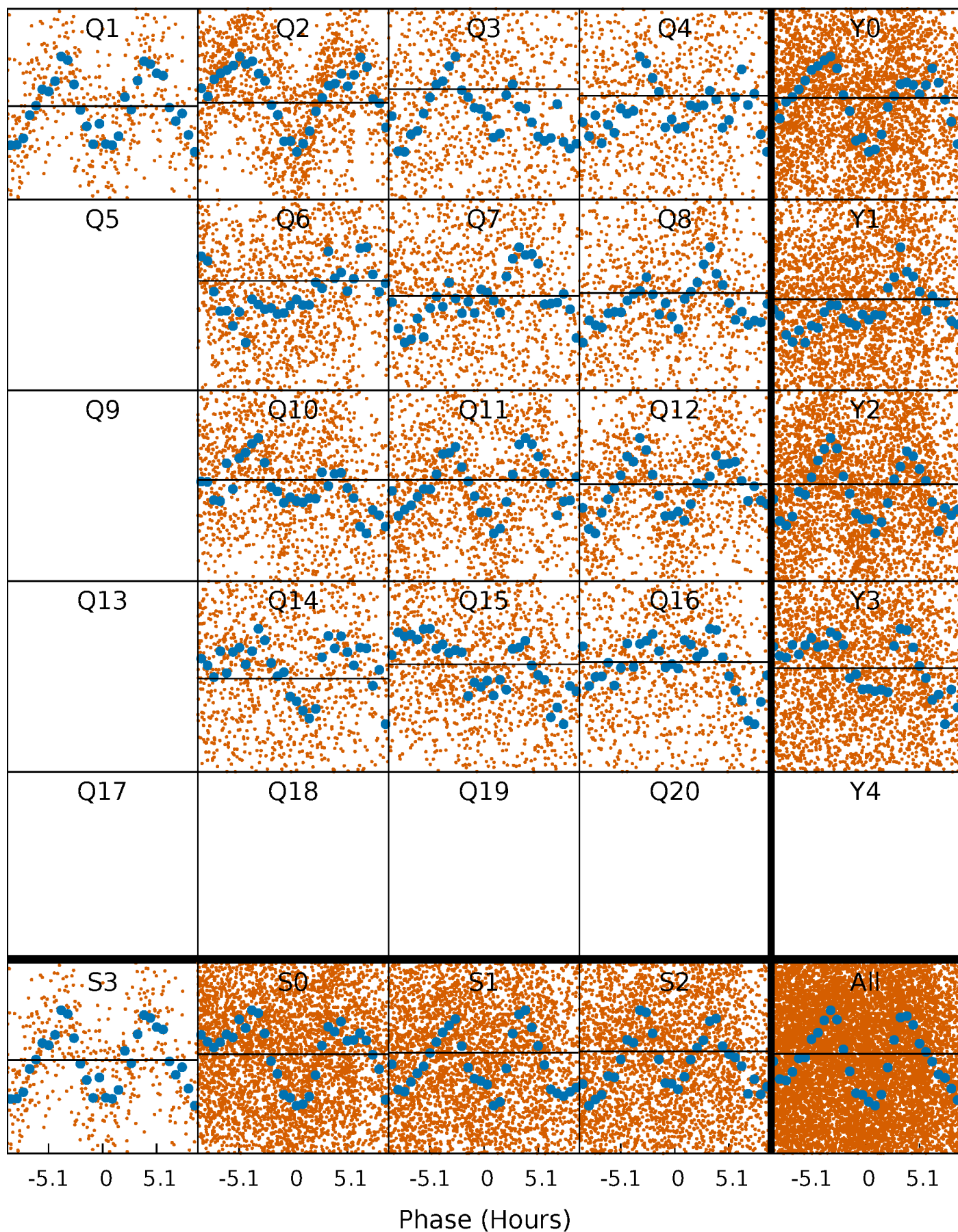
PDC Quarter-Phased Transit Curves

TCE 005774743-02 P= 2.036752 Days $T_0=133.084378$ (BKJD)



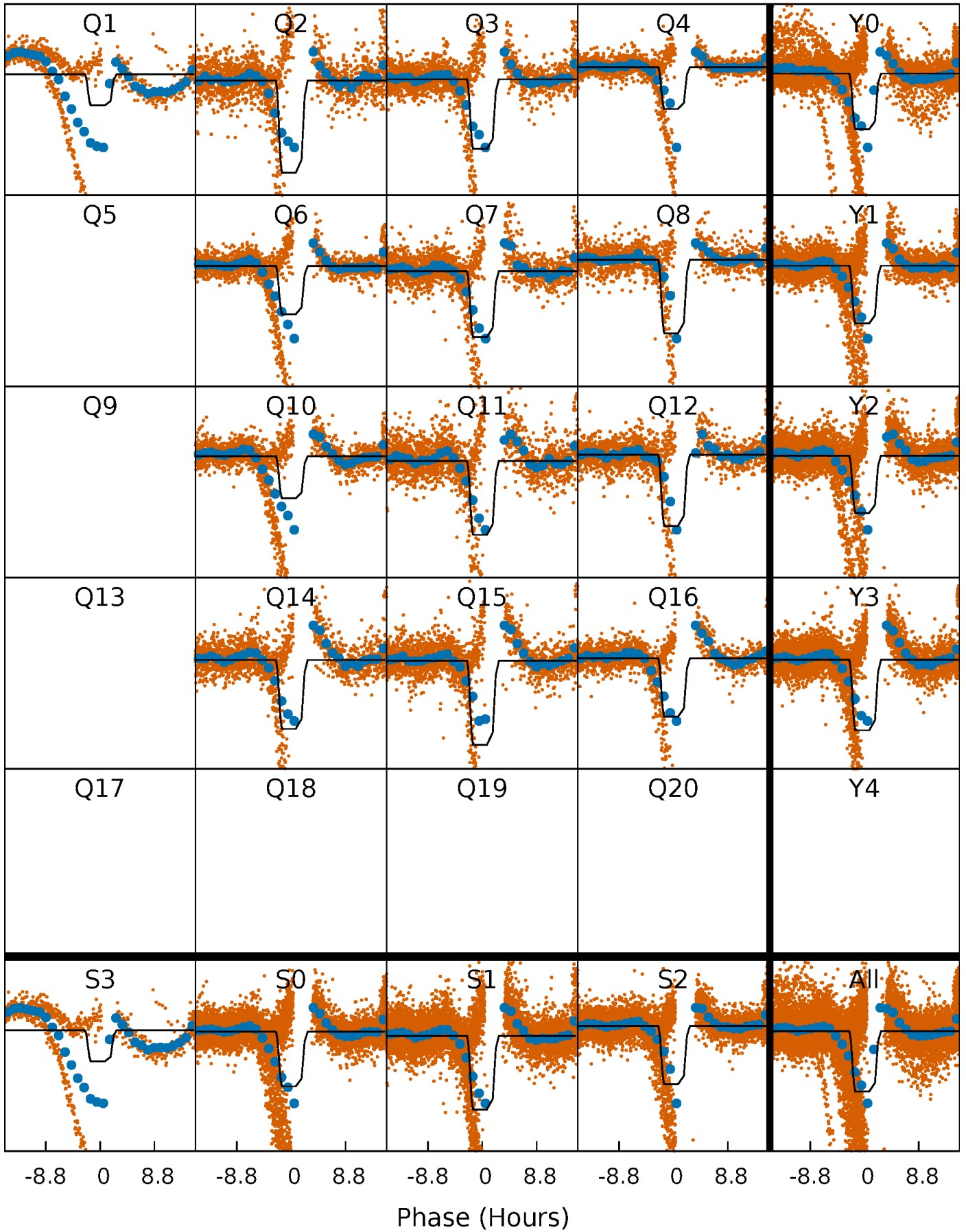
DV Quarter-Phased Transit Curves

TCE 005774743-02 P= 2.036752 Days $T_0=133.084378$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

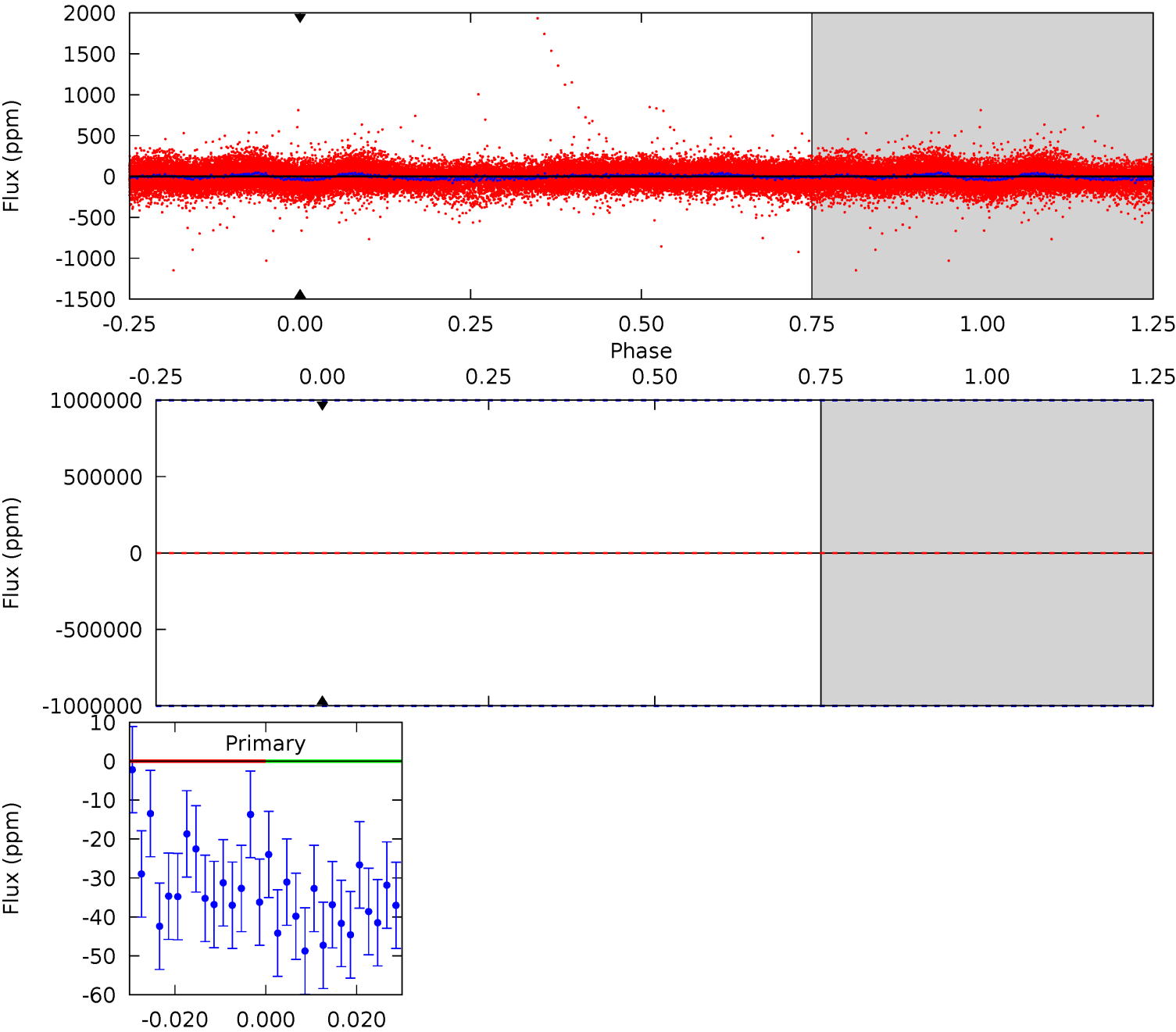
TCE 005774743-02 P= 2.036752 Days $T_0=133.211347$ (BKJD)



DV Model-Shift Uniqueness Test

005774743-02, P = 2.036752 Days, E = 131.047626 Days

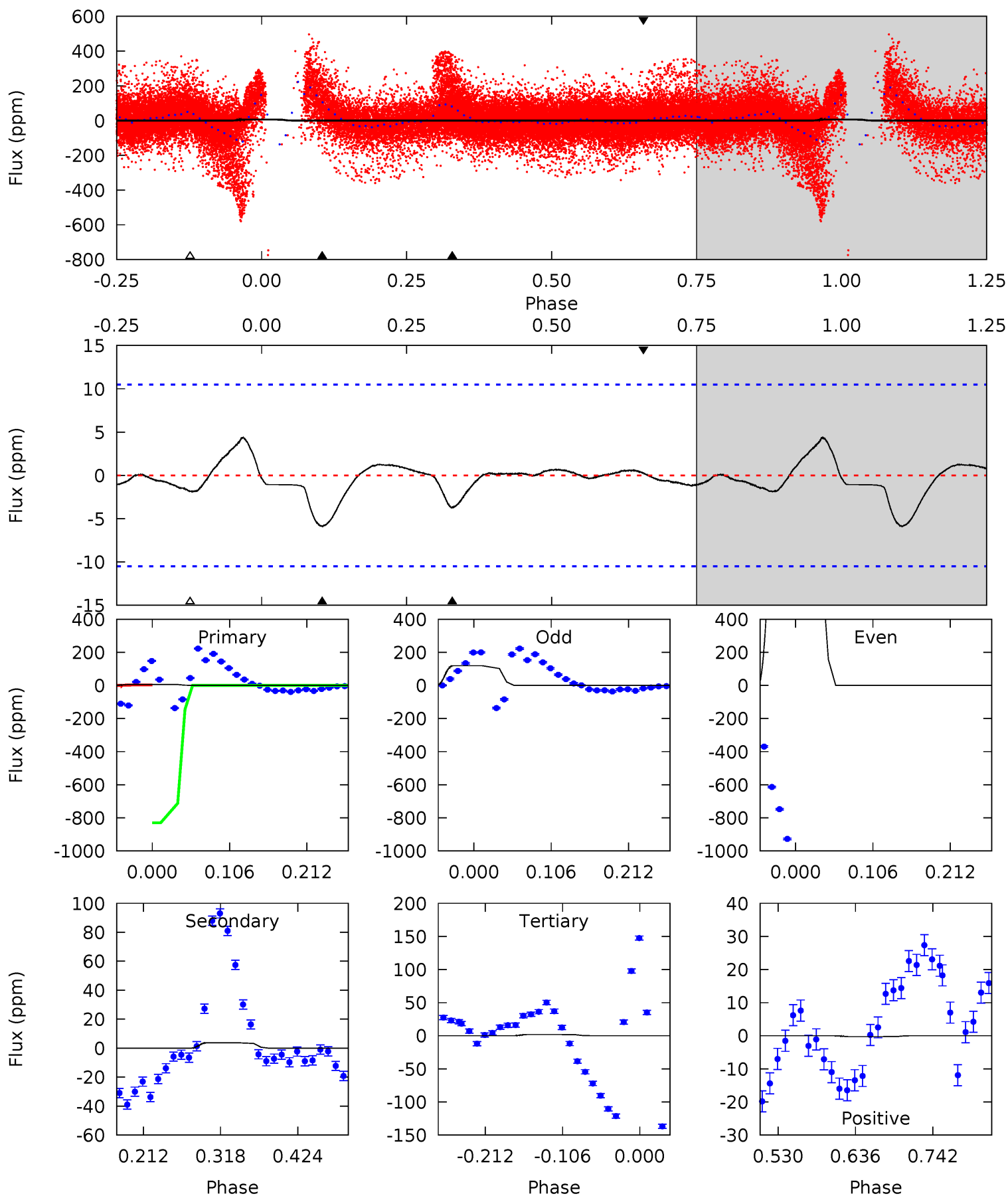
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005774743-02, P = 2.036752 Days, E = 131.174595 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.55	1.63	0.81	0.12	4.55	1.62	0.50	1.74	2.43	0.82	1.51	242.7	3.99	0.43	0



Stellar Parameters For KIC 005774743

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8203^{+228}_{-342}	$3.739^{+0.413}_{-0.110}$	$-0.080^{+0.250}_{-0.400}$	$3.206^{+0.828}_{-1.419}$	$2.054^{+0.330}_{-0.495}$	$0.088^{+0.345}_{-0.036}$
	+3%/-4%	+11%/-3%	+312%/-500%	+26%/-44%	+16%/-24%	+393%/-41%
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 005774743-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$24.25^{+24.72}_{-16.63}$	4397^{+323}_{-513}	-6191^{+58951}_{-37656}	$-2.571^{+294.129}_{-222.218}$
Alt.	-4 ± 2	$23.43^{+23.45}_{-15.70}$	4370^{+350}_{-499}	-3784^{+403}_{-236}	$0.005^{+0.048}_{-0.004}$

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

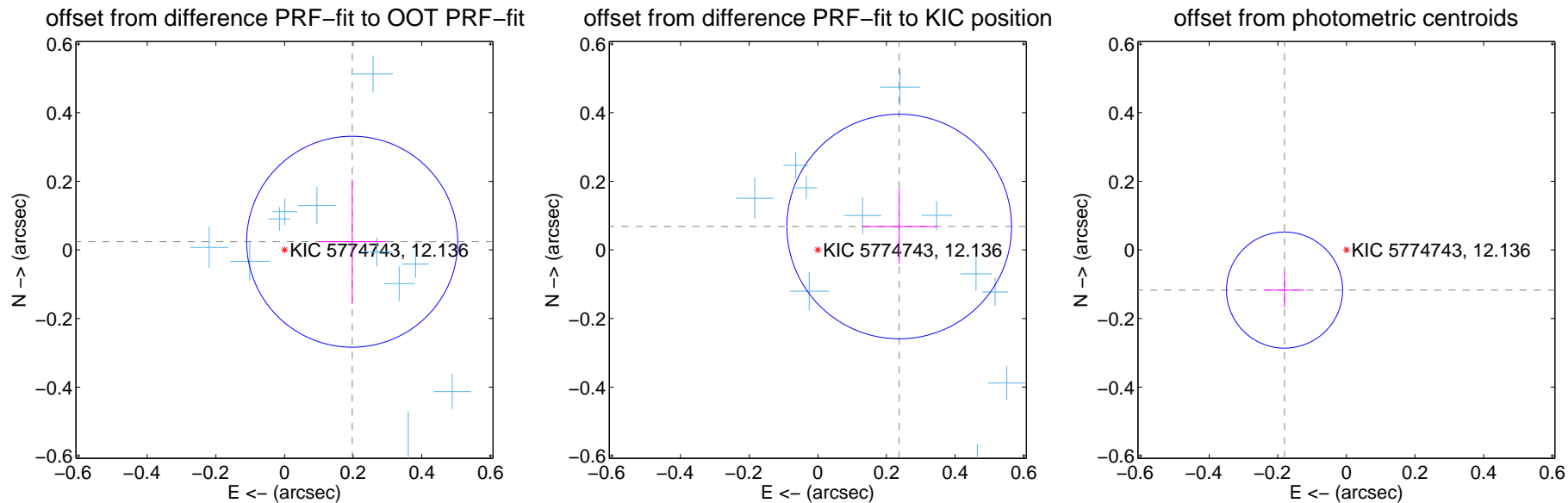
DV Centroid Data

Supplemental centroid analysis for 005774743-02. Kepler magnitude: 12.14. Transit SNR -1.00

There are 13 quarters with good PRF difference image offsets

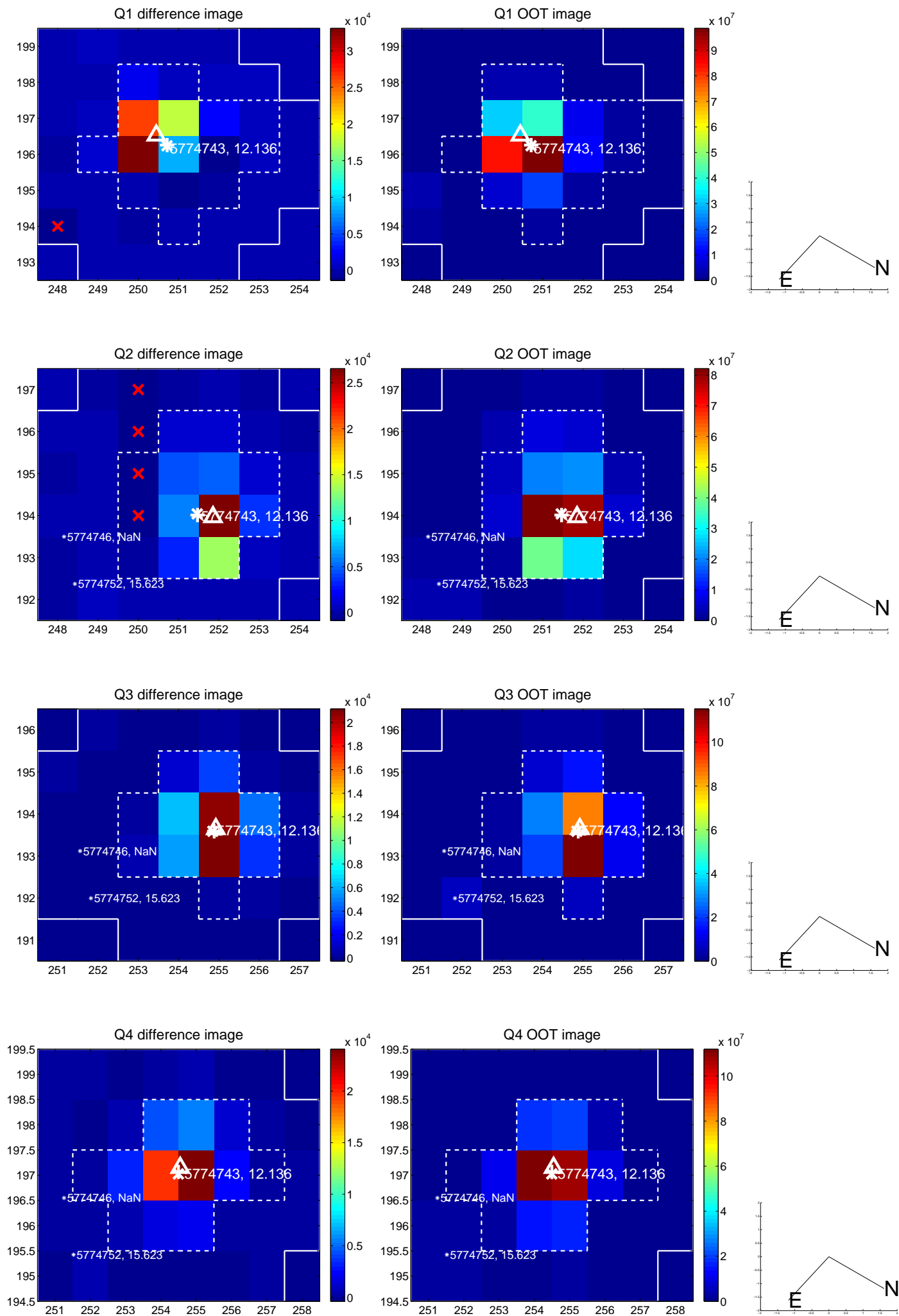
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.199 ± 0.102	1.94	-0.197 ± 0.099	0.024 ± 0.181
PRF-fit source offset from KIC position	0.247 ± 0.109	2.26	-0.237 ± 0.109	0.068 ± 0.109
photometric centroid source offset	0.21 ± 0.06	3.81	0.18 ± 0.06	-0.12 ± 0.05

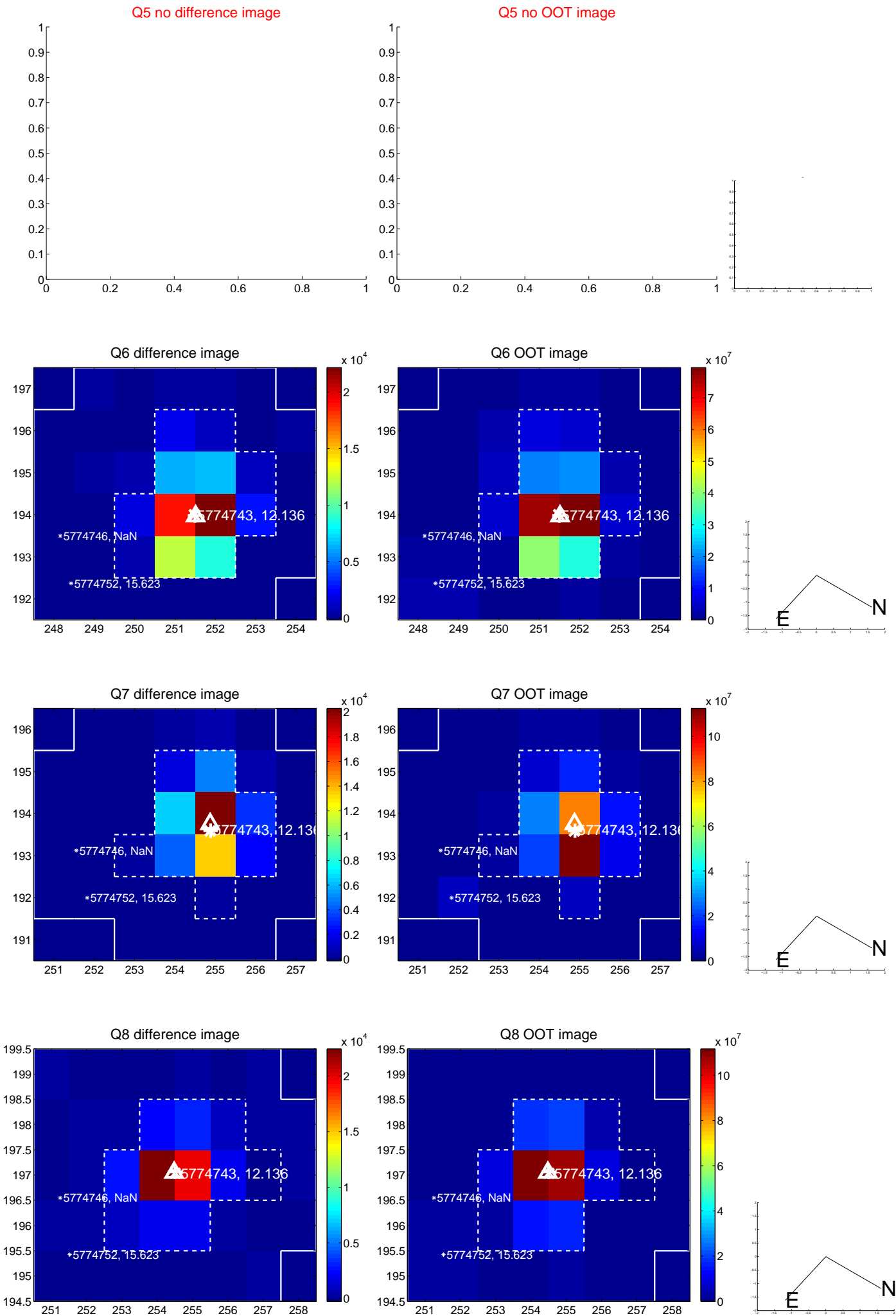


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

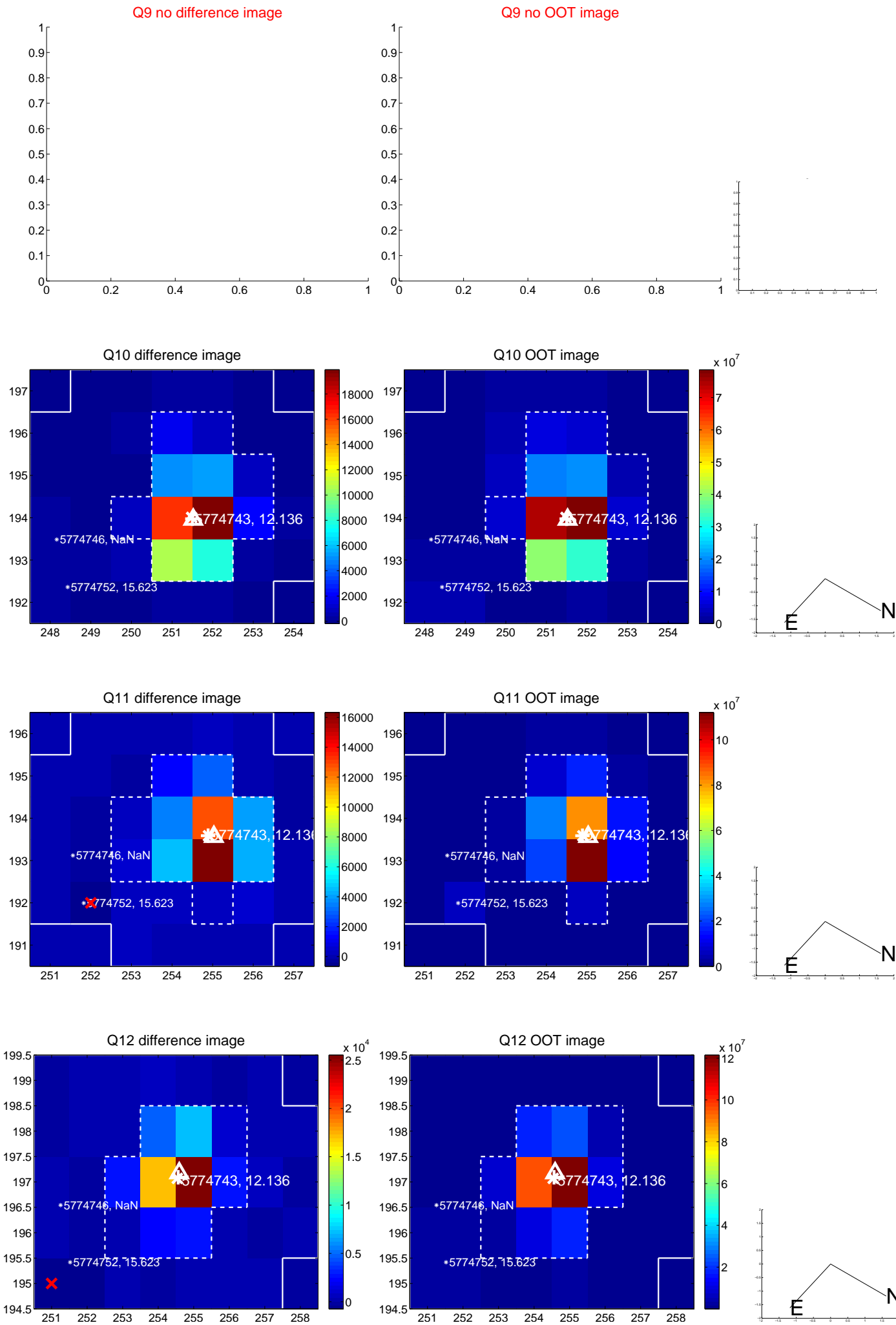
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



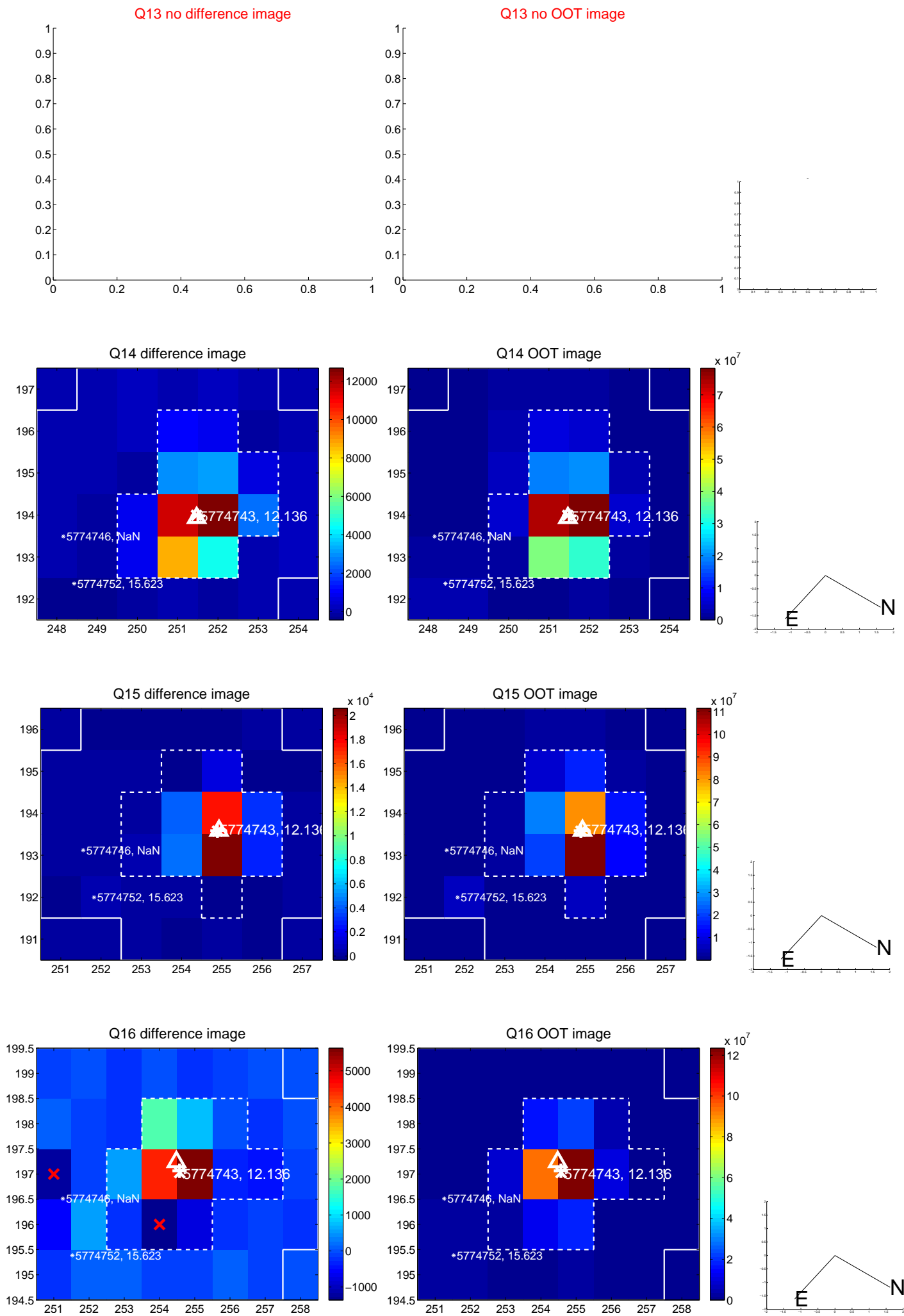
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



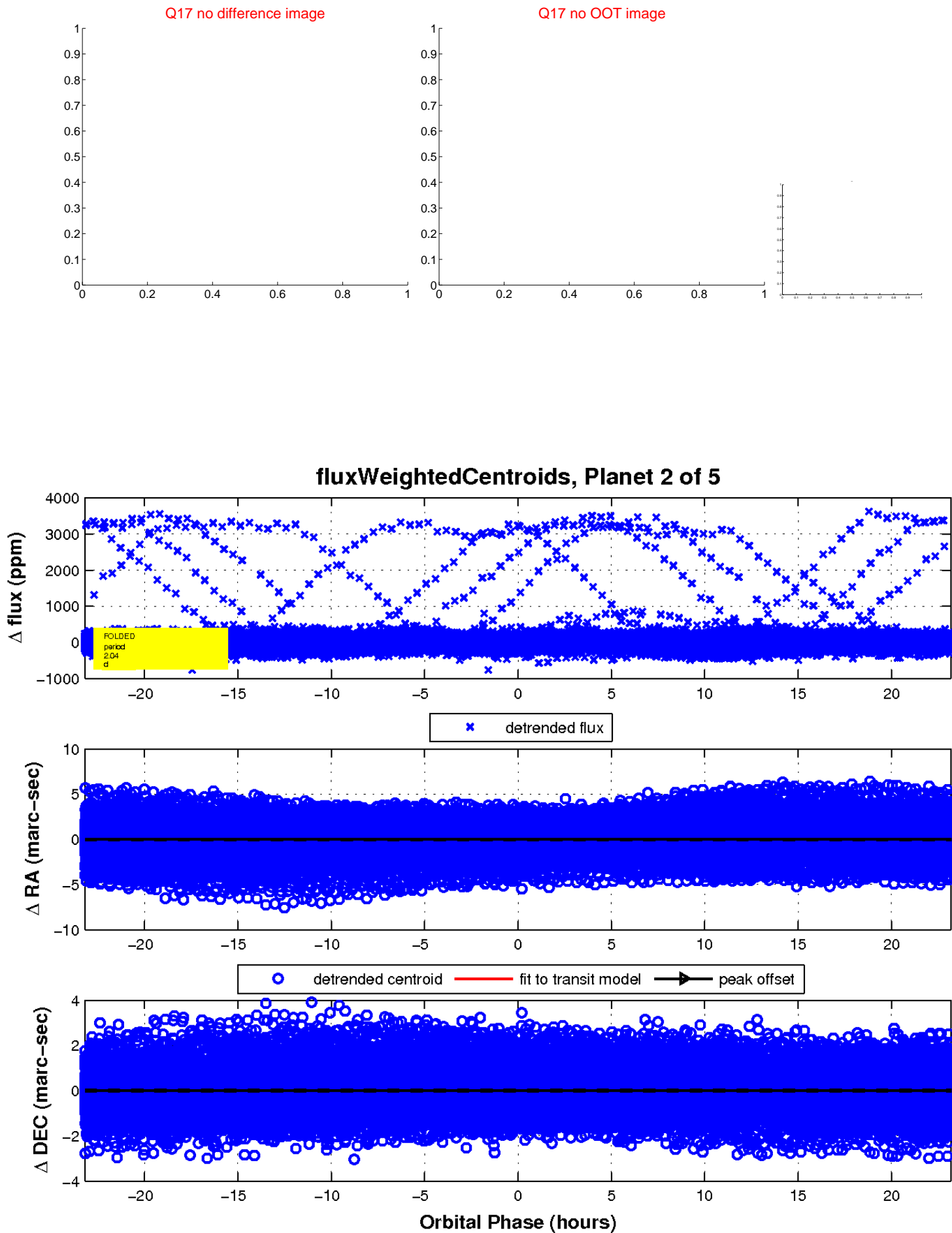
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

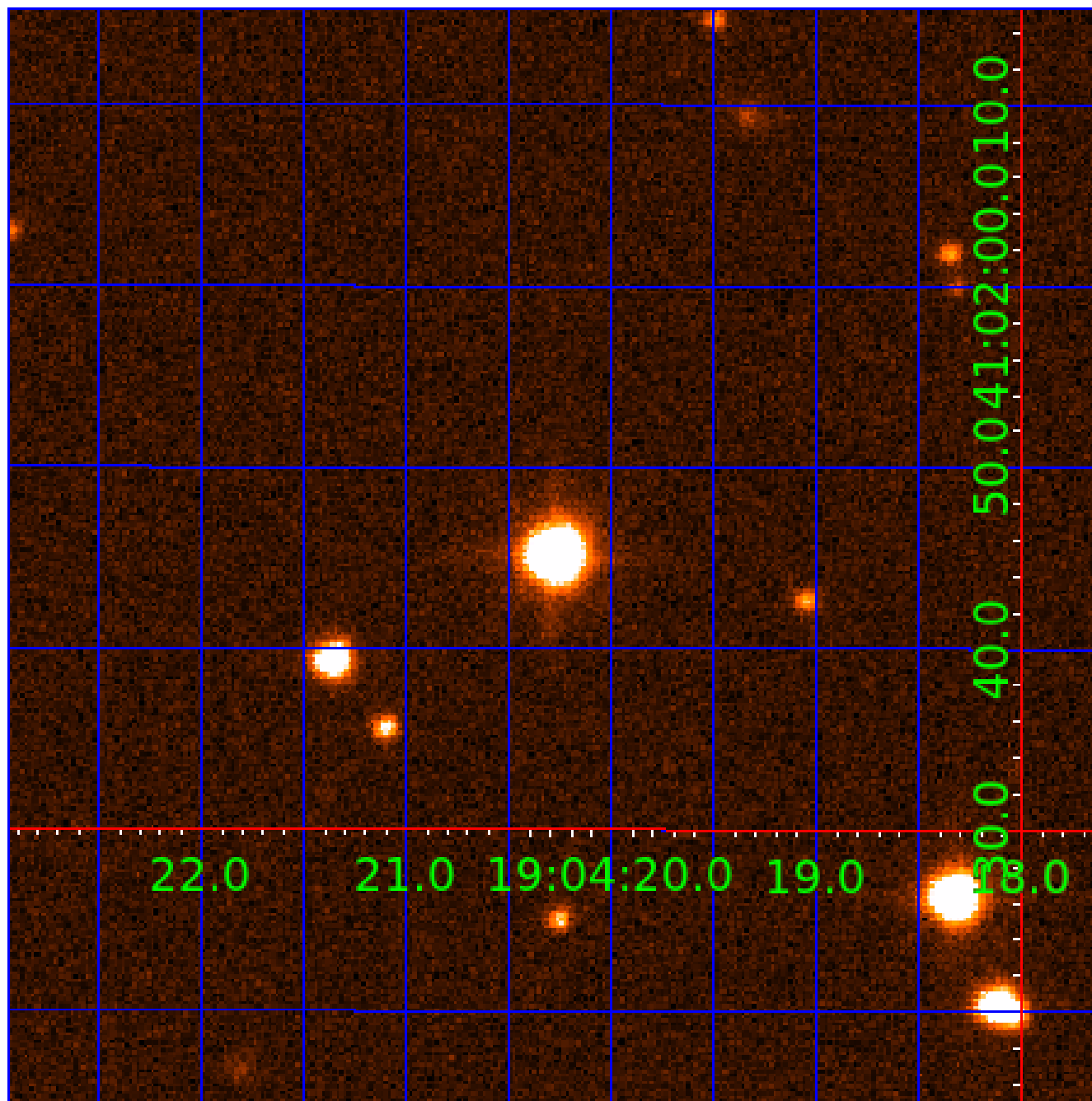


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005774743

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})
005774743-01	OBS	No	4.073588	133.567045	44.5	3.700	12.9	13.8	3.21	8203	2.51	10346.45
005774743-02	OBS	No	2.036752	133.084378	126.2	4.500	12.4	-1.0	3.21	8203	3.64	26072.13
005774743-03	OBS	No	1.357758	131.800399	11.5	3.935	8.4	5.9	3.21	8203	1.29	44771.11
005774743-04	OBS	No	2.036857	133.367773	26.2	6.257	8.4	8.3	3.21	8203	1.96	26070.35
005774743-05	OBS	No	135.501748	238.678205	187.0	15.000	14.6	-1.0	3.21	8203	4.43	96.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005774743-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV
005774743-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS
005774743-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS
005774743-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005774743-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

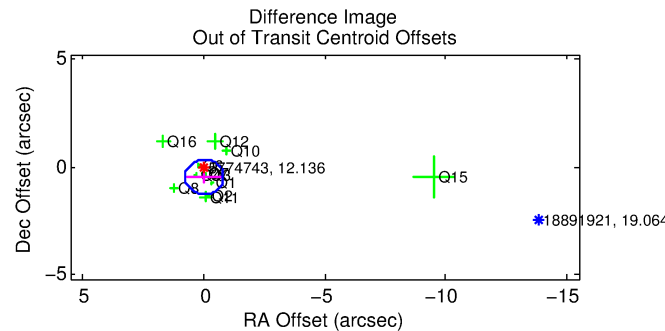
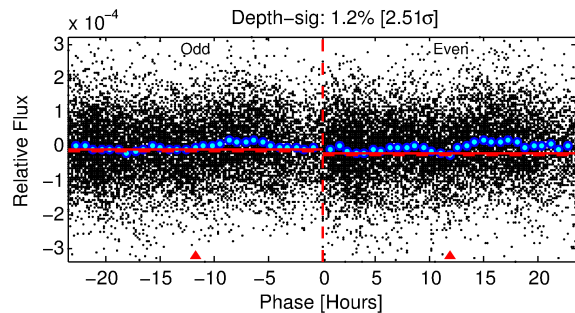
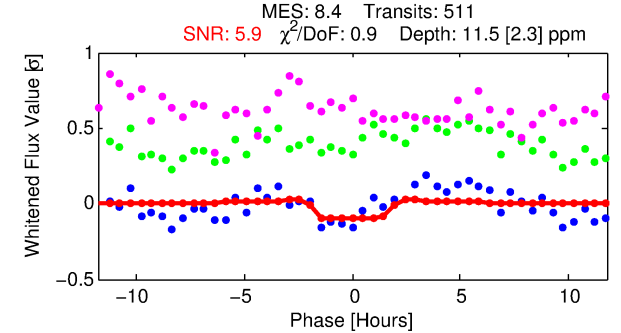
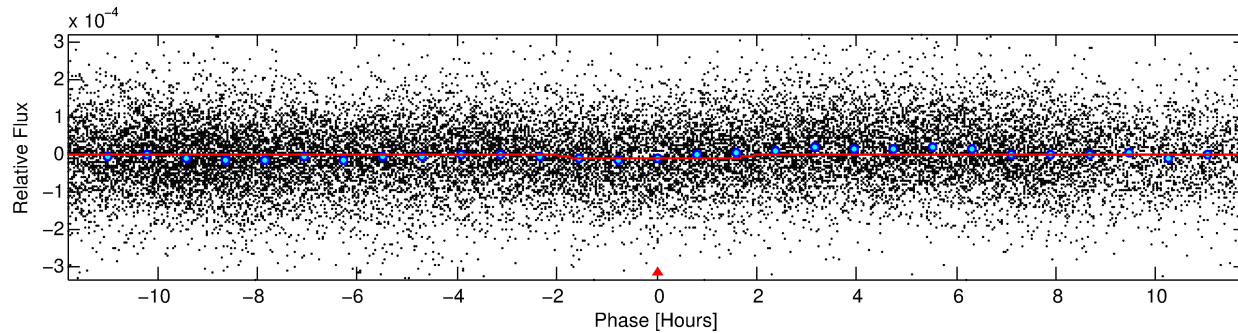
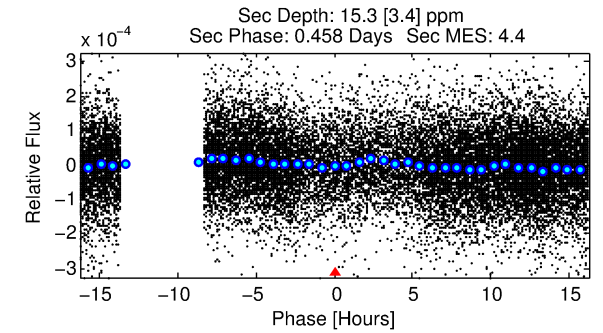
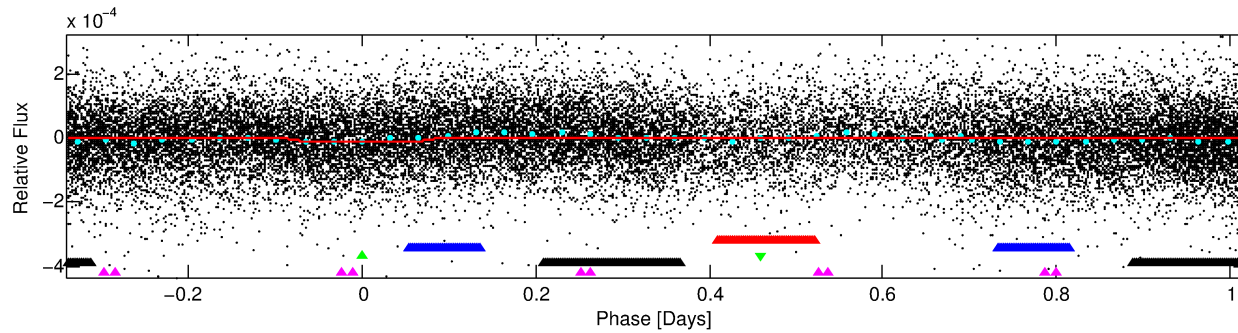
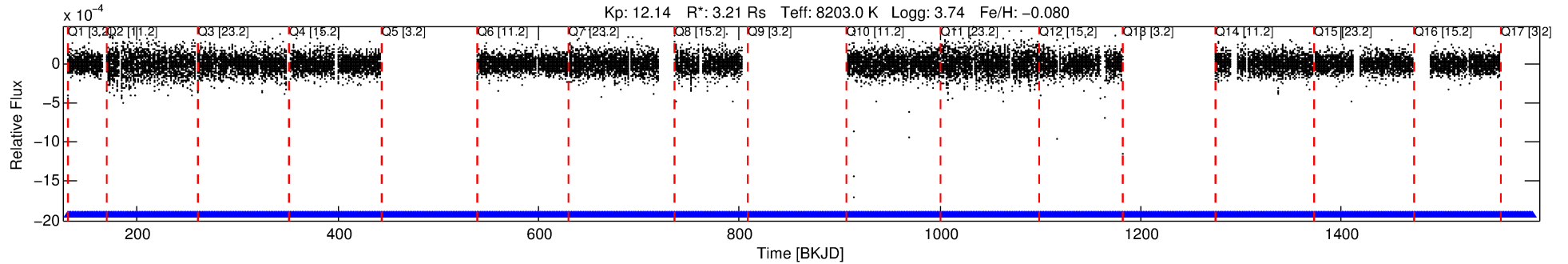
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005774743-03

No Significant Match Found

DV One-Page Summary

KIC: 5774743 Candidate: 3 of 5 Period: 1.358 d



DV Fit Results:

Period = 1.35776 [0.00002] d
Epoch = 131.8004 [0.0057] BKJD
Rp/R* = 0.0037 [0.0013]
a/R* = 1.39 [1.58]
b = 0.93 [0.36]
Seff = 44771.11 [32185.65]
Teq = 3709 [667] K
Rp = 1.29 [0.74] Re
a = 0.0305 [0.0132] AU
Ag = 4.67 [4.83] [0.76σ]
Teffp = 8430 [1644] K [2.66σ]

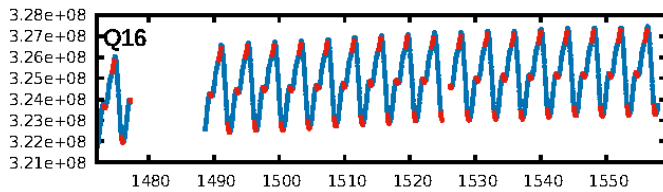
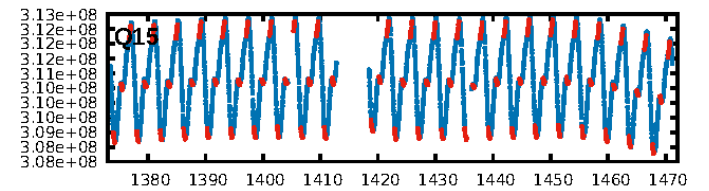
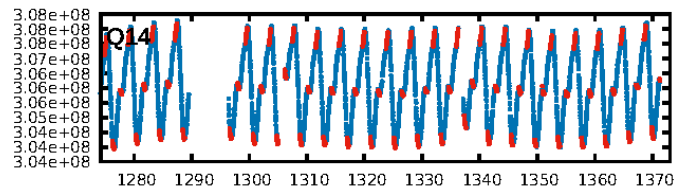
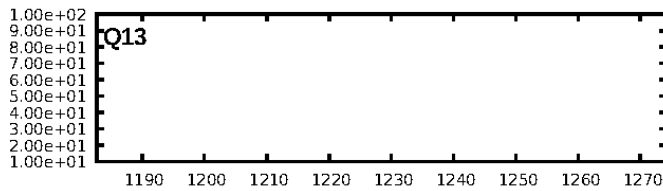
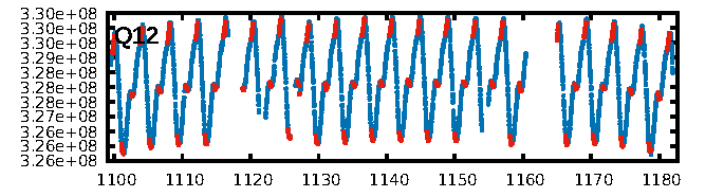
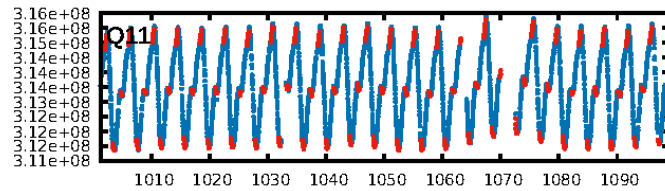
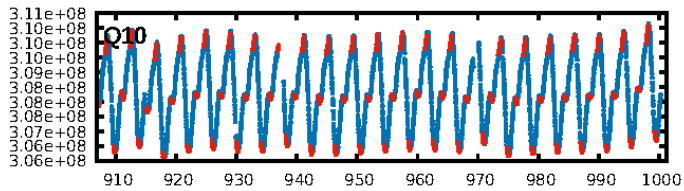
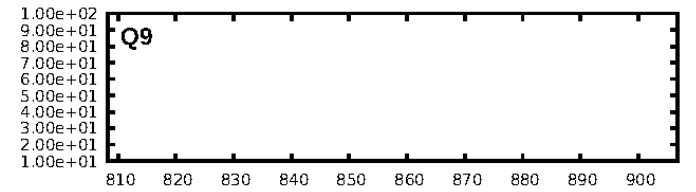
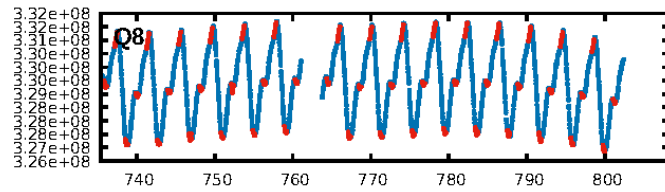
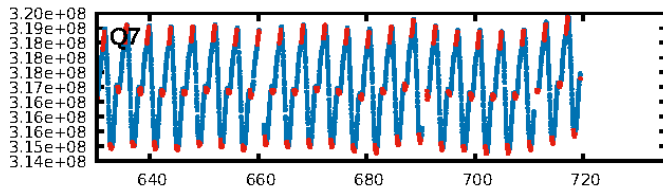
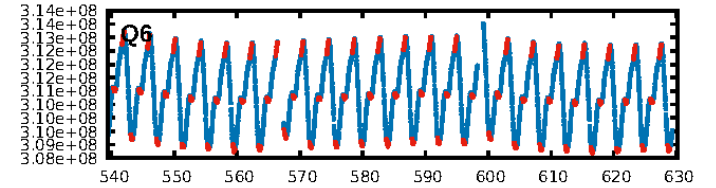
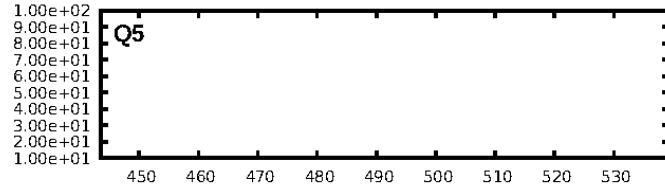
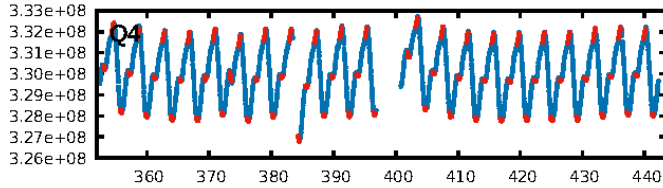
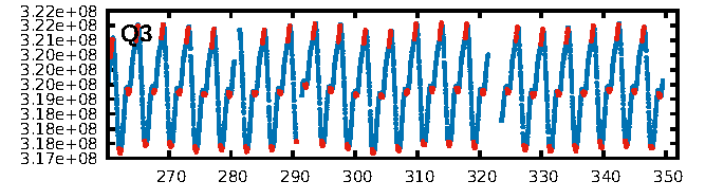
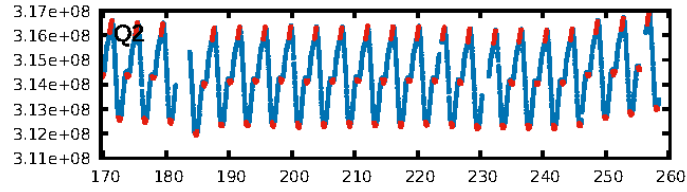
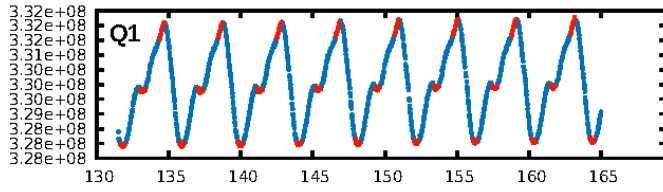
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 99.4% [2.73σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.23e-12
RollingBand-fgt: 1.00 [494/494]
GhostDiagnostic-chr: 0.6918
Centroid-sig: 0.0%
Centroid-so: 7.148 arcsec [3.93σ]
OotOffset-rm: 0.477 arcsec [1.78σ]
KicOffset-rm: 0.471 arcsec [1.62σ]
OotOffset-st: 3/4/4/1 [12]
KicOffset-st: 3/4/4/1 [12]
DiffImageQuality-fgm: 0.00 [0/12]
DiffImageOverlap-fno: 1.00 [13/13]

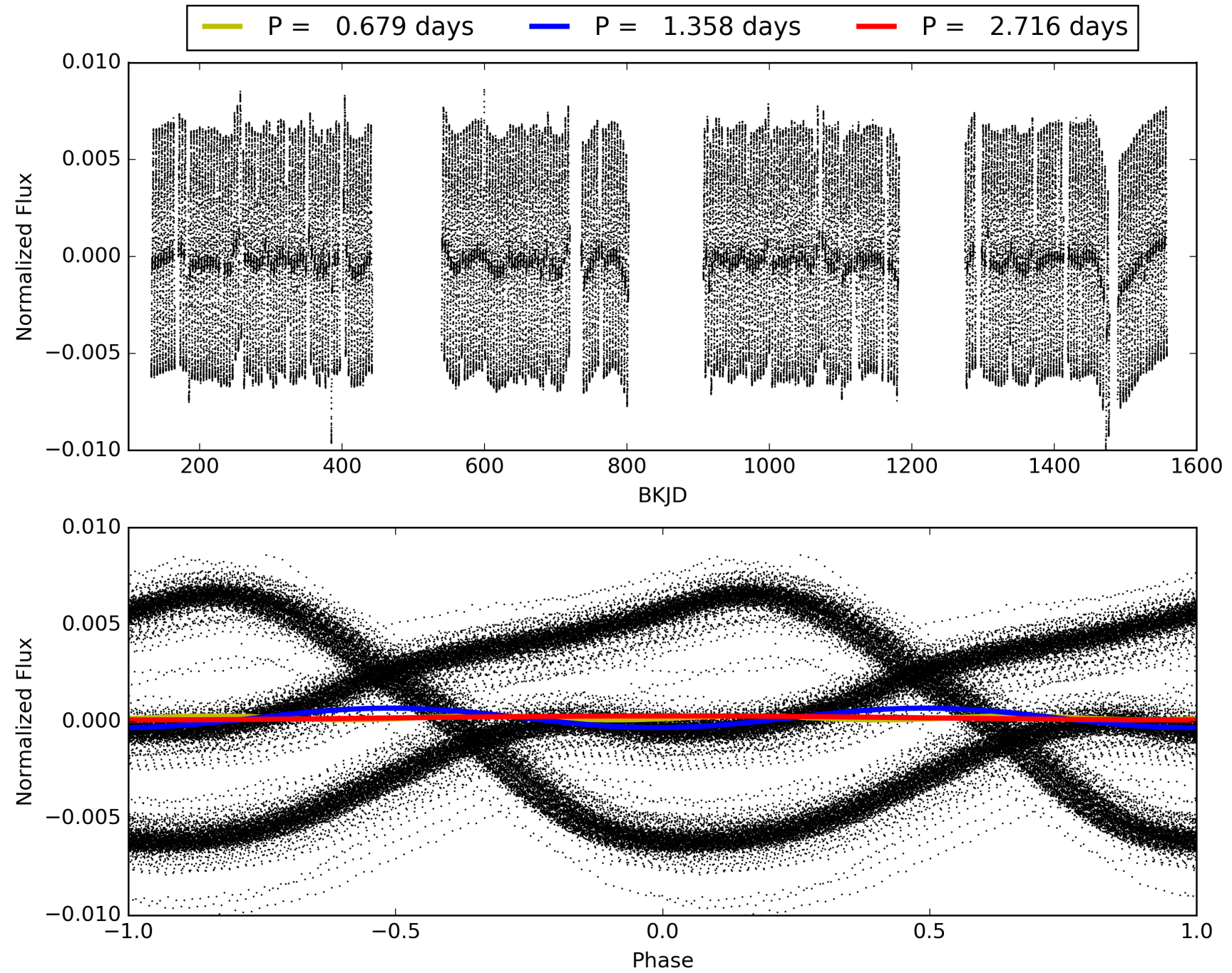
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 23:12:50 Z

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

TCE 005774743-03, PDC Light Curves

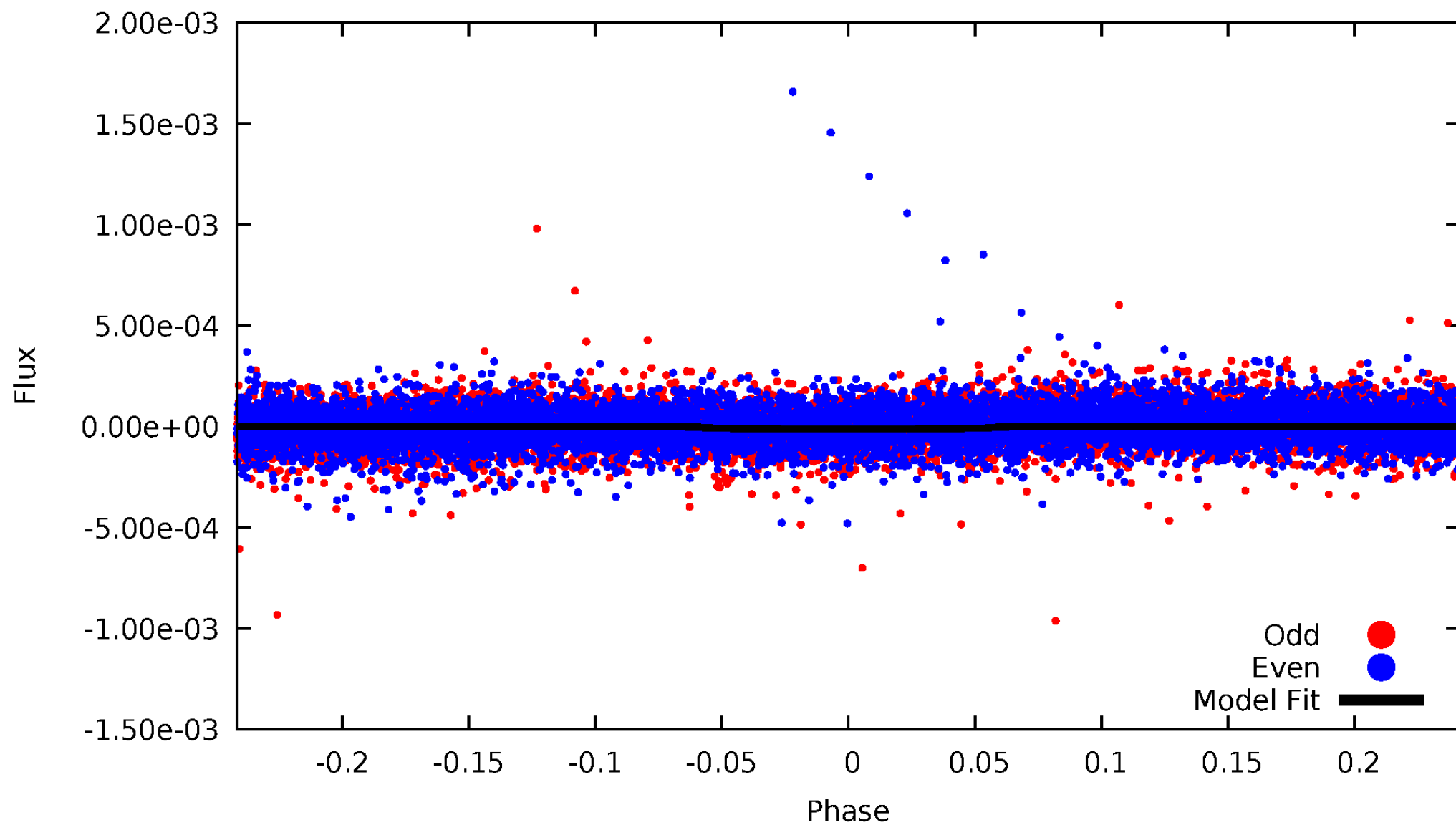


TCE 005774743-03



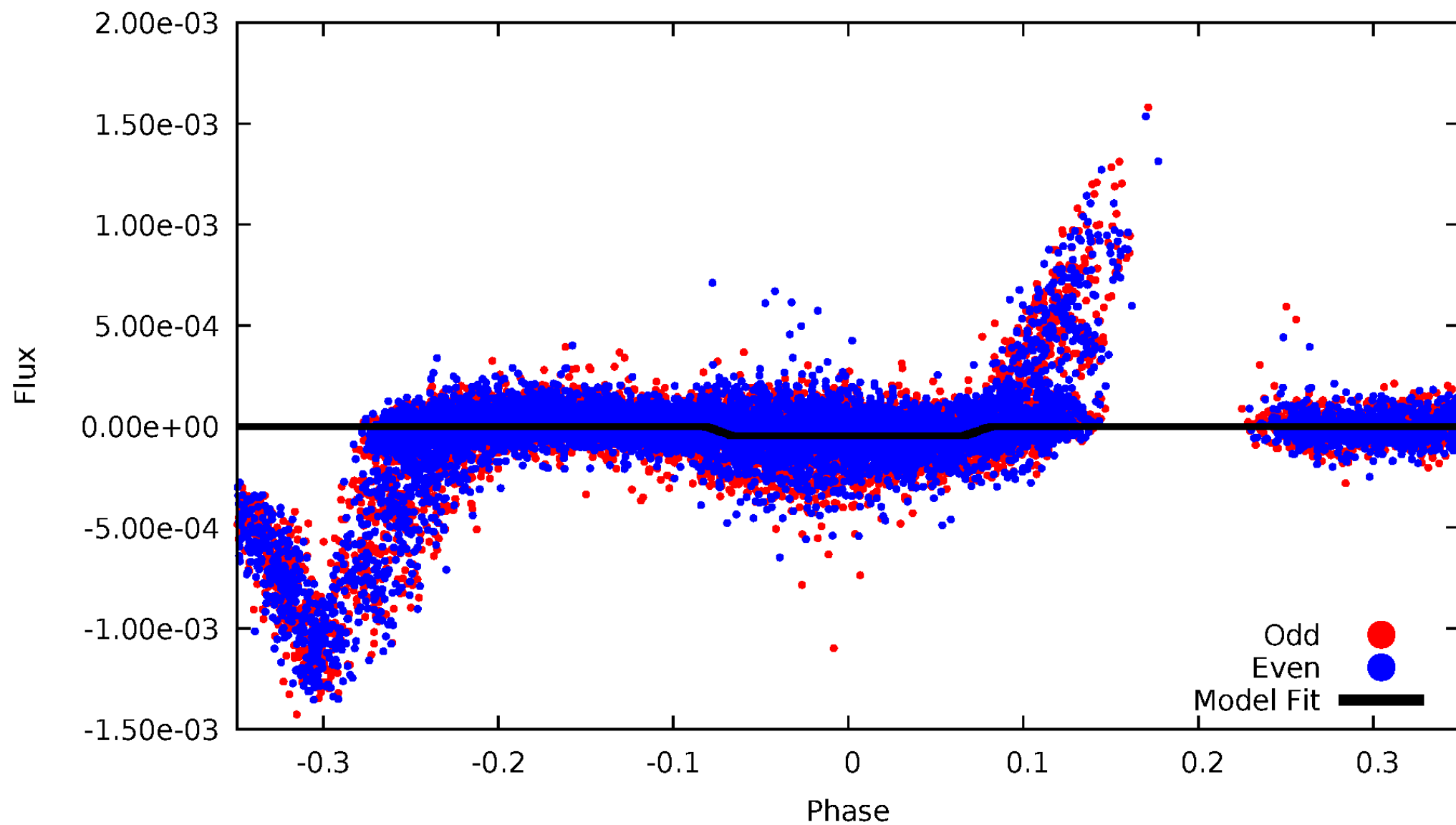
DV Odd/Even

TCE 005774743-03

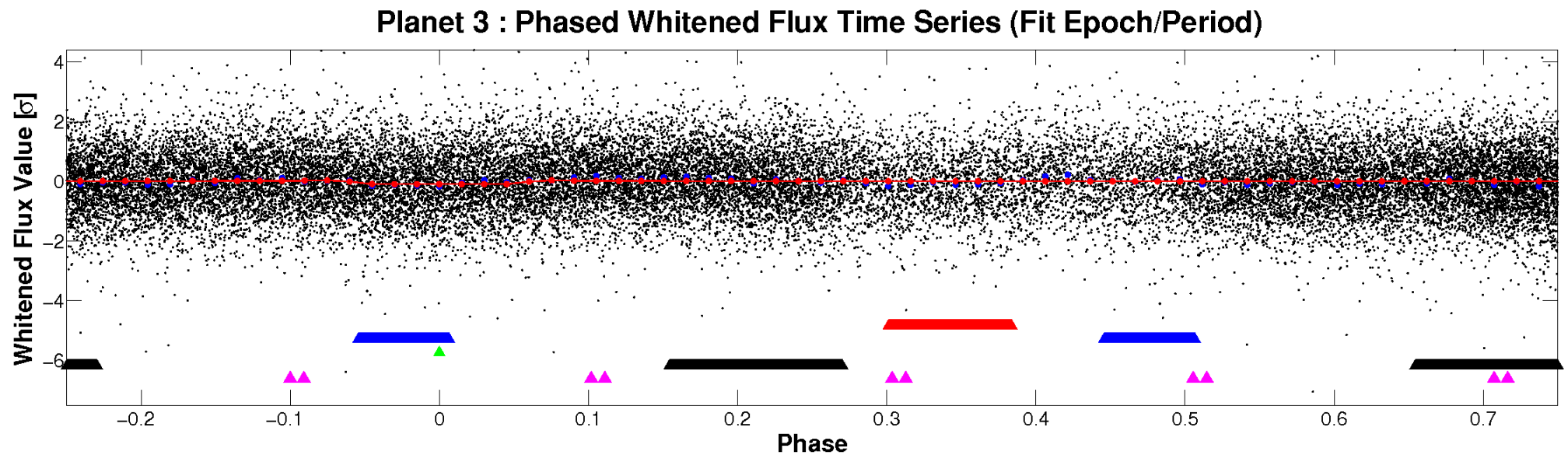
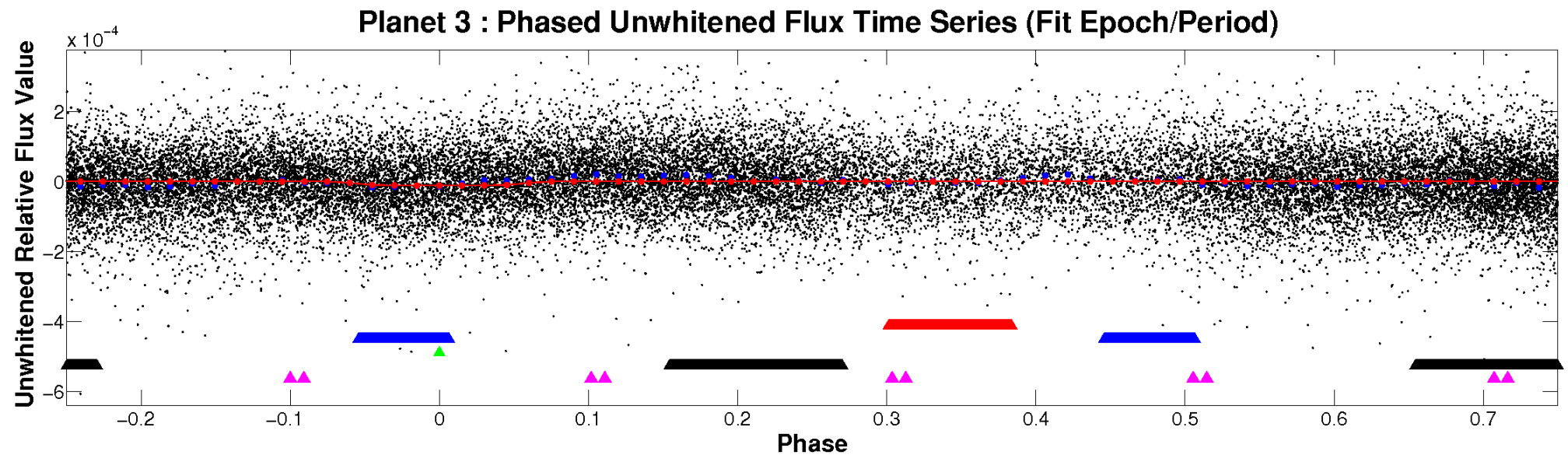


ALT Odd/Even

TCE 005774743-03

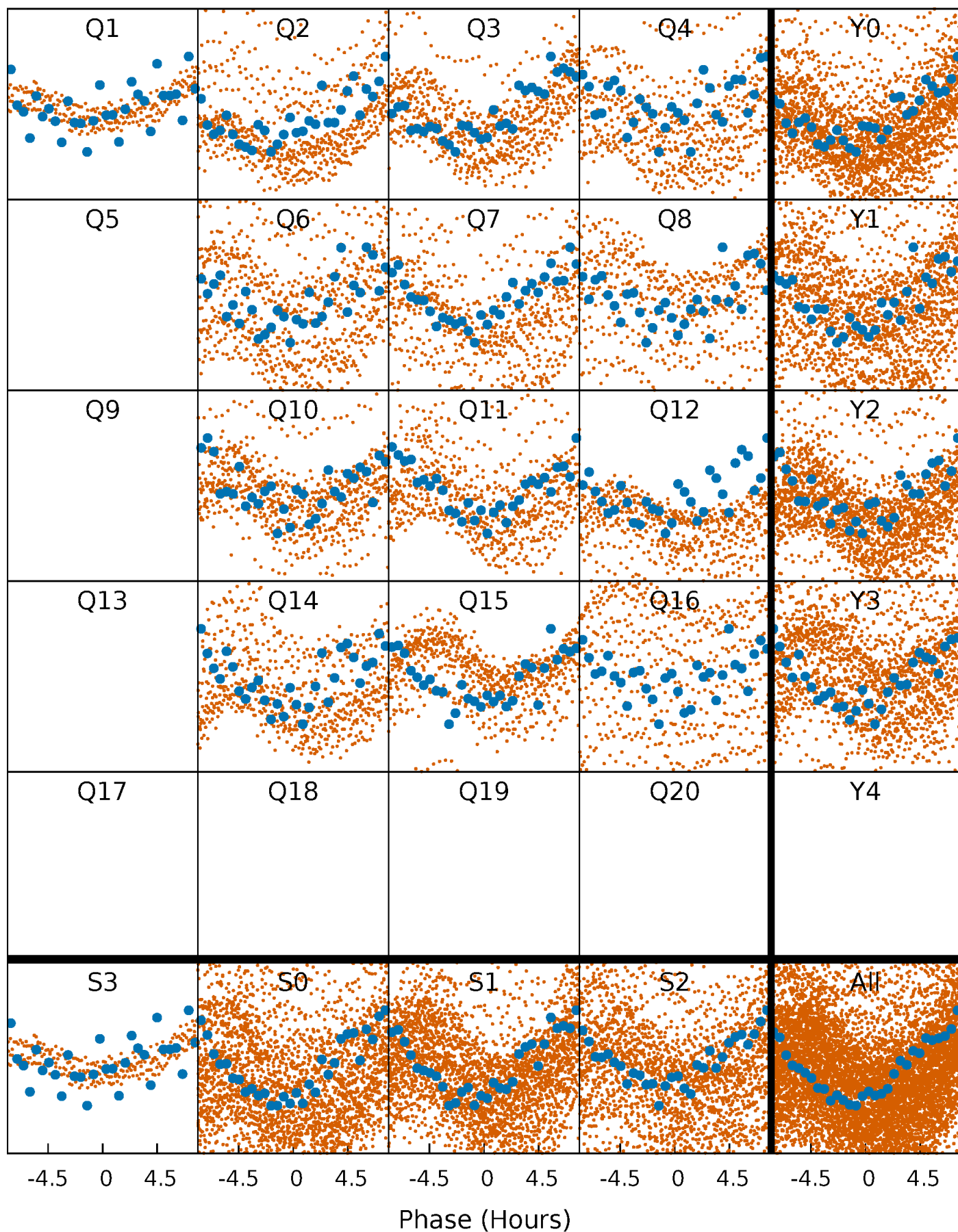


Non-Whitened Vs. Whitened Light Curve



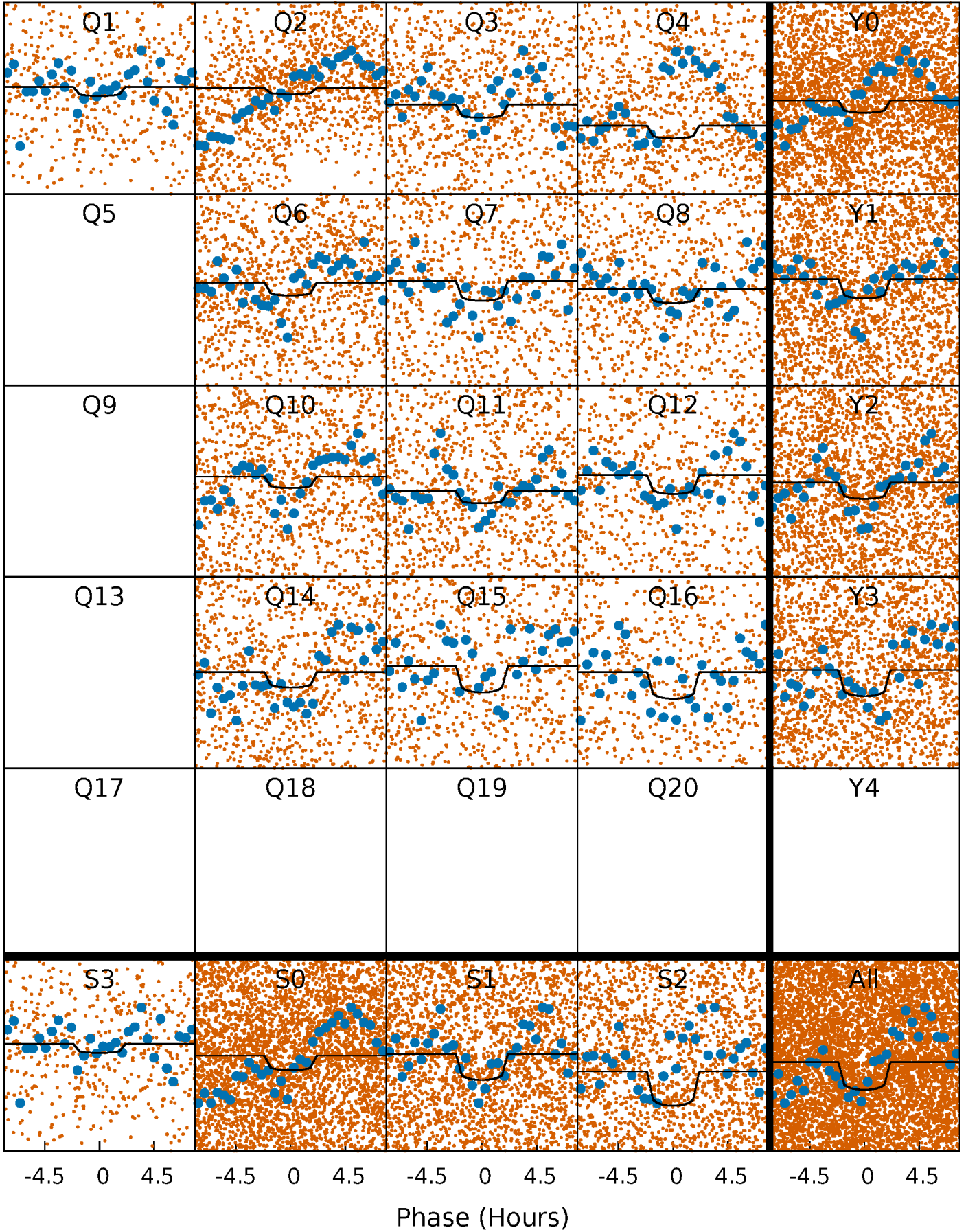
PDC Quarter-Phased Transit Curves

TCE 005774743-03 P= 1.357758 Days $T_0=131.800399$ (BKJD)



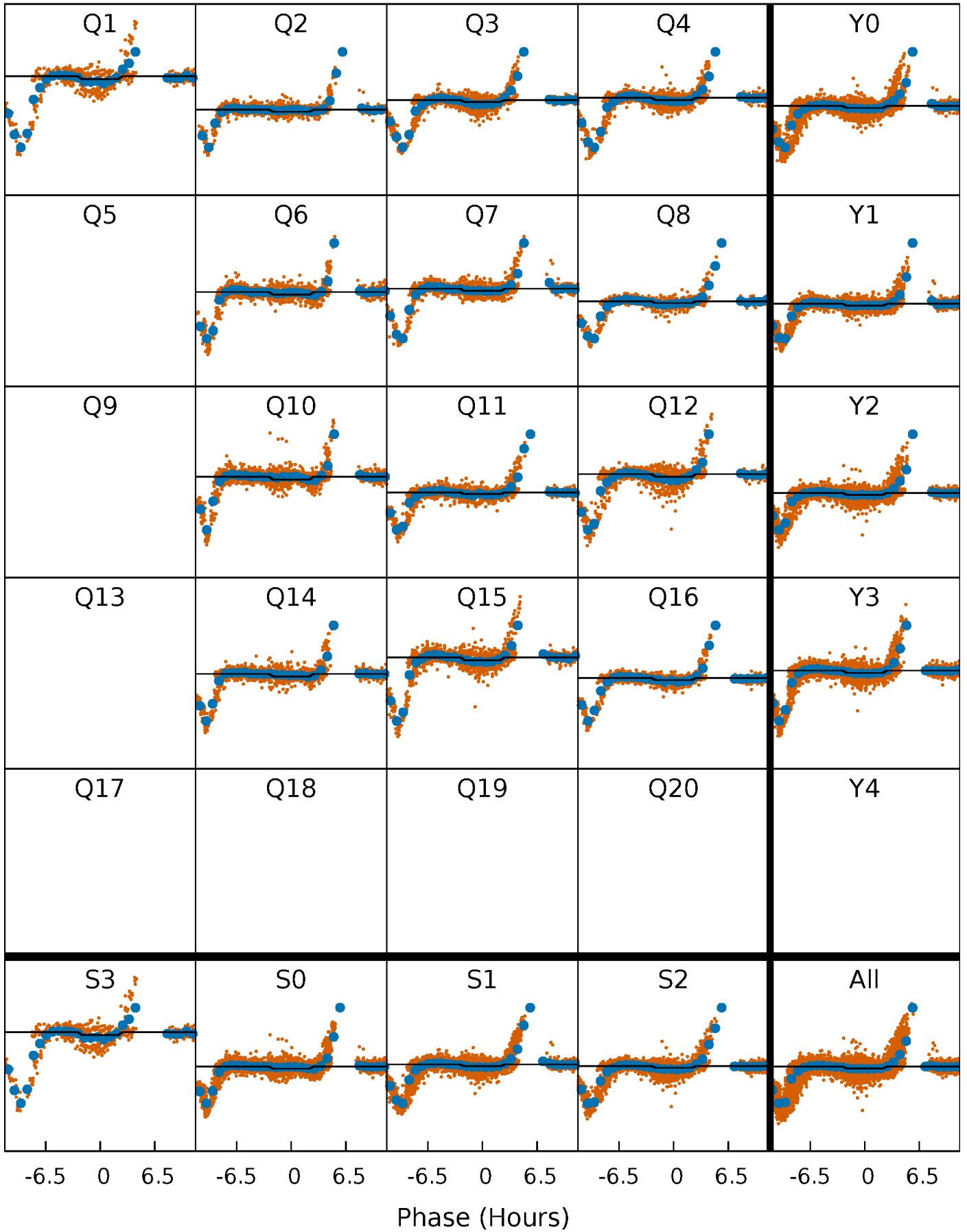
DV Quarter-Phased Transit Curves

TCE 005774743-03 P= 1.357758 Days $T_0=131.800399$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

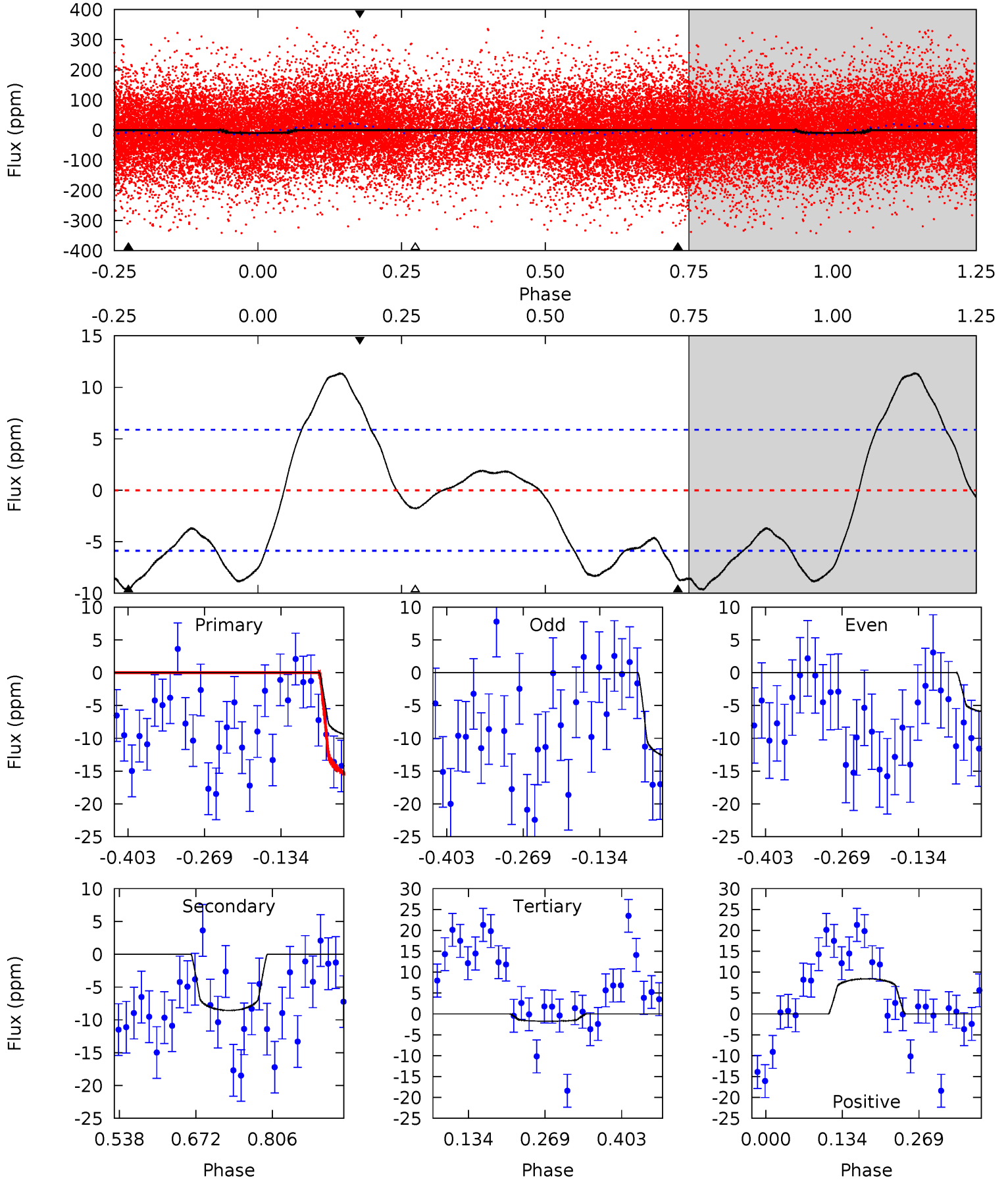
TCE 005774743-03 P= 1.357849 Days $T_0=131.810622$ (BKJD)



DV Model-Shift Uniqueness Test

005774743-03, P = 1.357758 Days, E = 130.442641 Days

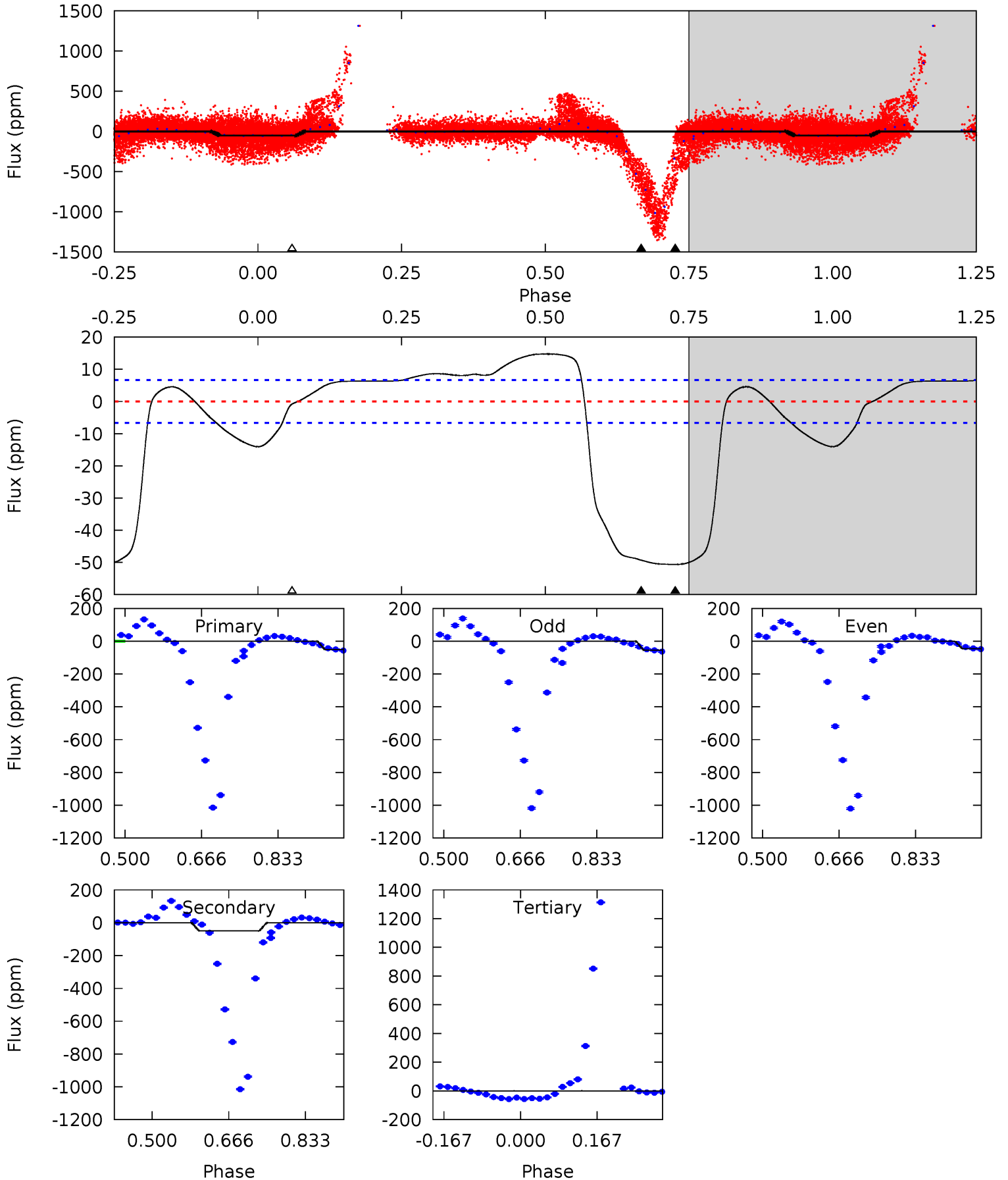
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.39	6.57	1.34	6.44	4.50	1.50	4.71	6.04	0.94	5.22	0.12	2.64	0.86	0.54	4.82



Alt Model-Shift Uniqueness Test

005774743-03, P = 1.357849 Days, E = 130.452773 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
33.8	32.9	0.54	0	4.46	1.38	6.00	33.2	33.8	32.4	32.9	2.98	1.79	0.23	0.38



Stellar Parameters For KIC 005774743

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8203^{+228}_{-342}	$3.739^{+0.413}_{-0.110}$	$-0.080^{+0.250}_{-0.400}$	$3.206^{+0.828}_{-1.419}$	$2.054^{+0.330}_{-0.495}$	$0.088^{+0.345}_{-0.036}$
	+3%/-4%	+11%/-3%	+312%/-500%	+26%/-44%	+16%/-24%	+393%/-41%
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 005774743-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-9 ± 1	$1.14^{+0.56}_{-0.48}$	4986^{+398}_{-549}	6984^{+2456}_{-1295}	$3.339^{+6.339}_{-1.825}$
Alt.	-49 ± 1	$2.20^{+0.66}_{-0.58}$	4995^{+419}_{-596}	8102^{+1379}_{-933}	$5.245^{+4.270}_{-2.089}$

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 $A_{obs} \gg 1.0$

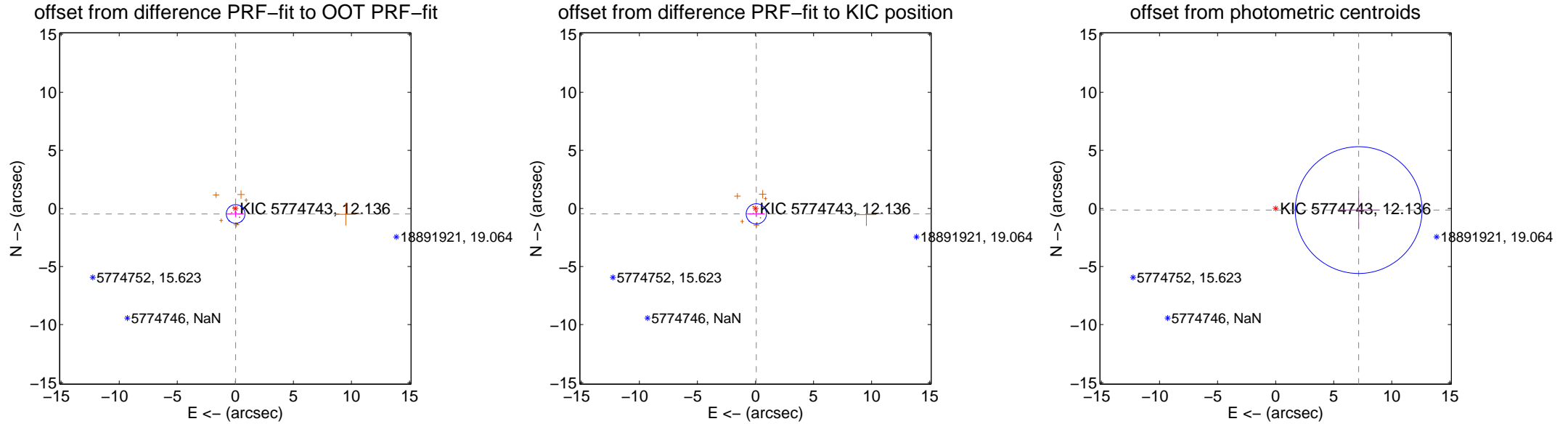
DV Centroid Data

Supplemental centroid analysis for 005774743-03. Kepler magnitude: 12.14. Transit SNR 5.86

There are 0 quarters with good PRF difference image offsets

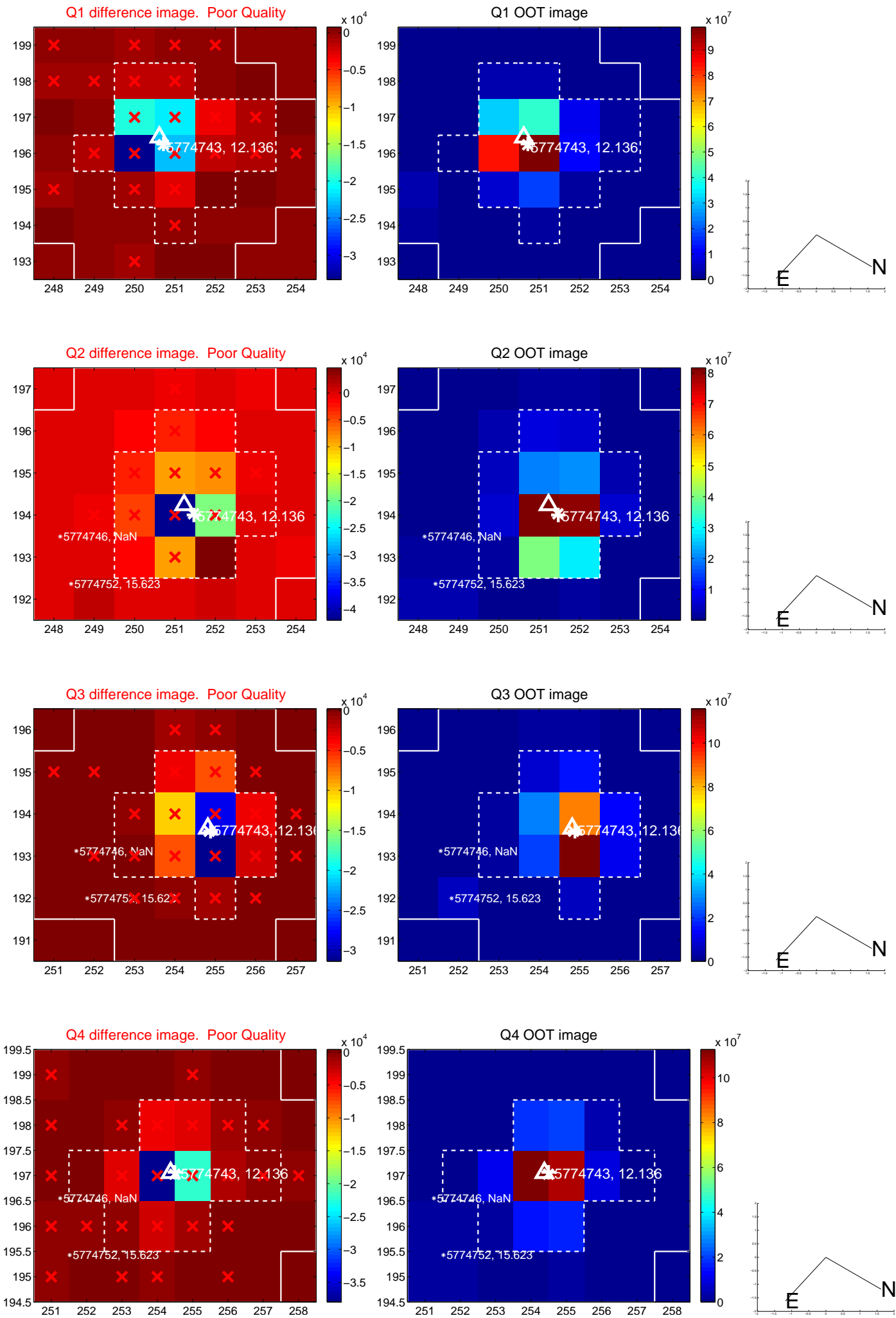
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.477 ± 0.268	1.78	-0.025 ± 0.731	-0.476 ± 0.263
PRF-fit source offset from KIC position	0.471 ± 0.291	1.62	-0.070 ± 0.726	-0.466 ± 0.259
photometric centroid source offset	7.15 ± 1.82	3.93	-7.15 ± 1.82	-0.14 ± 1.64

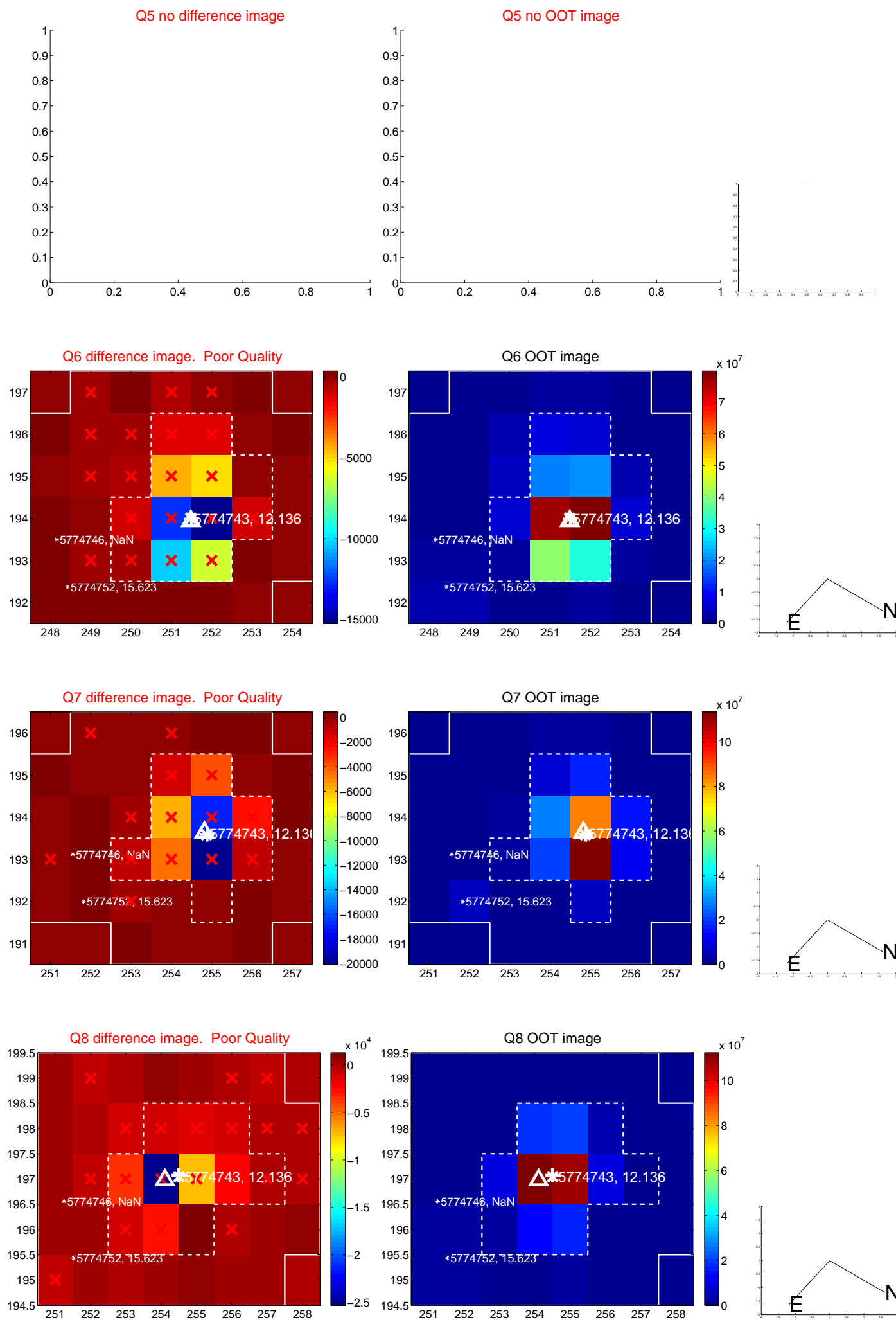


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

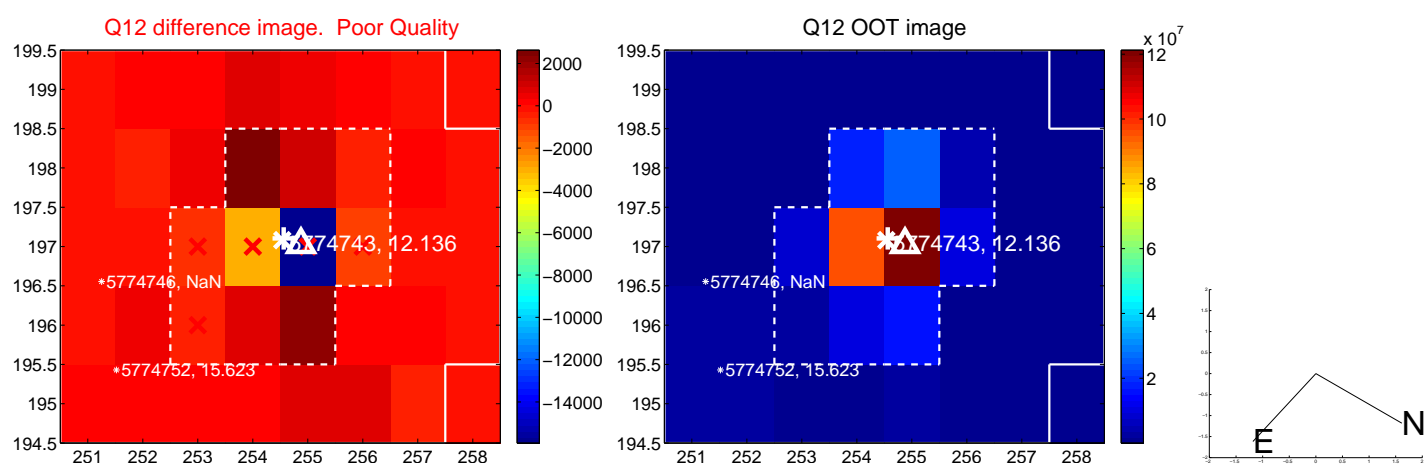
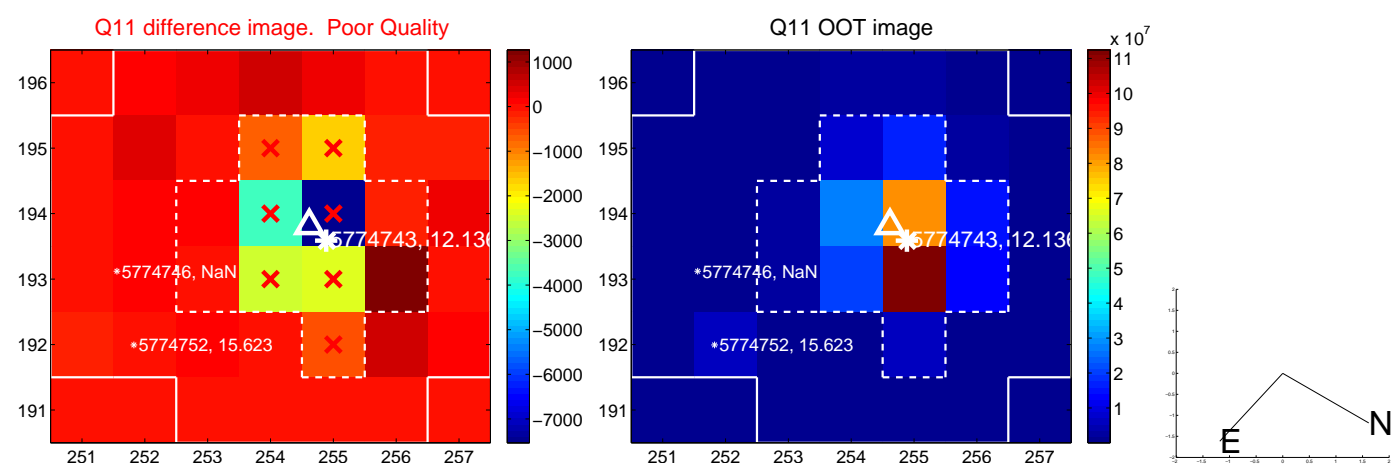
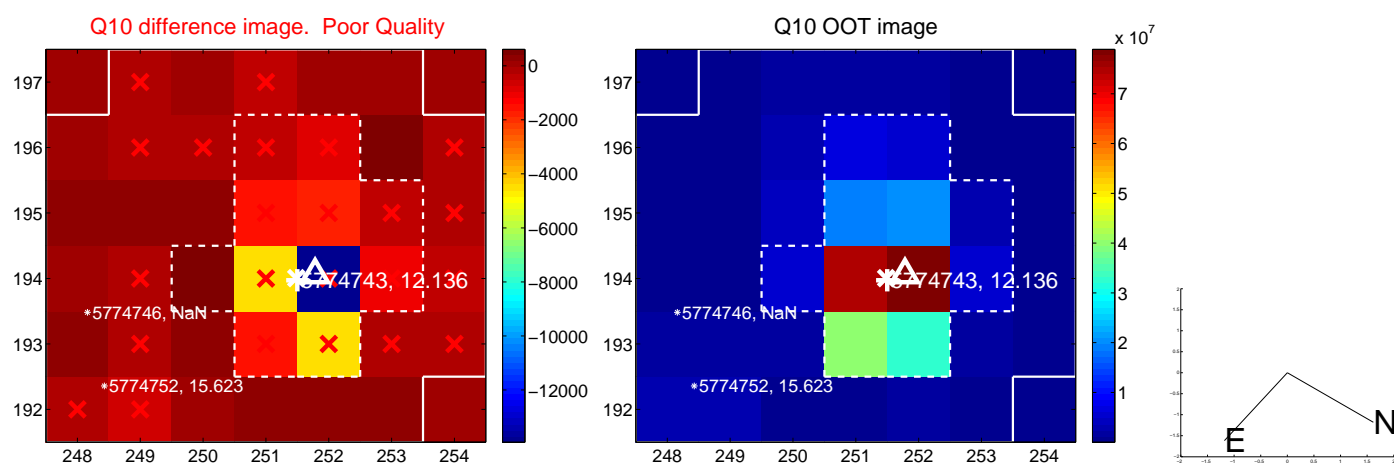
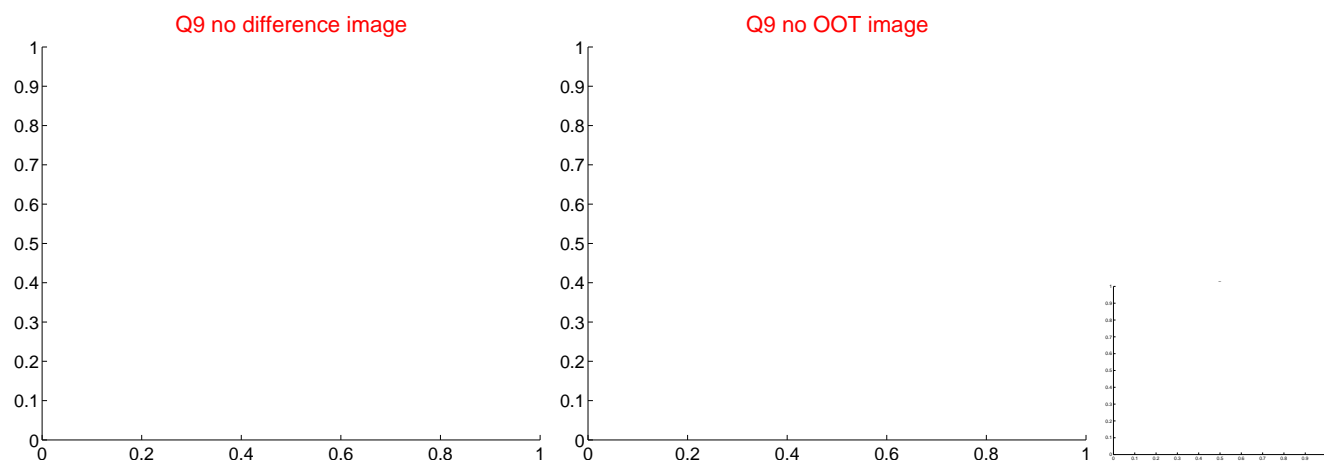
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



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

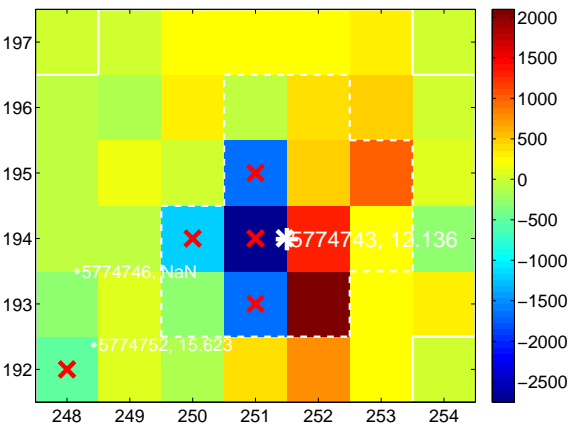
Q13 no difference image



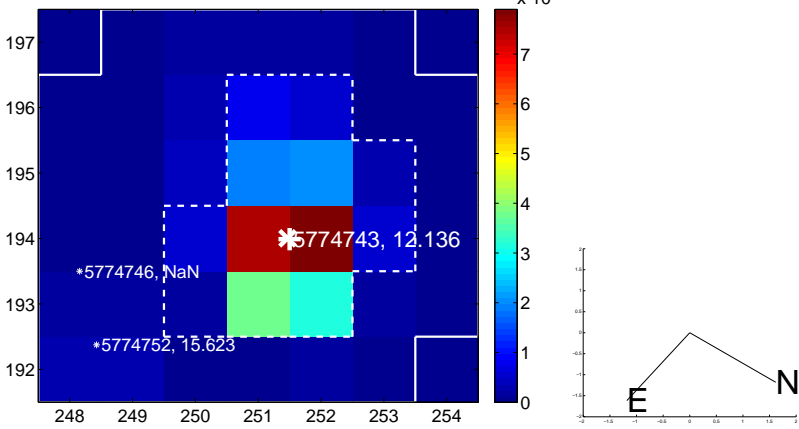
Q13 no OOT image



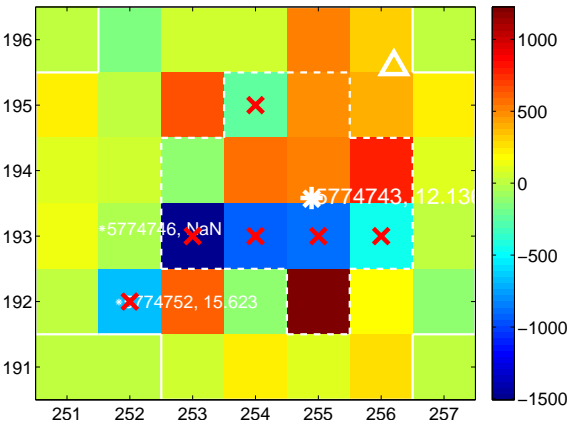
Q14 difference image. Poor Quality



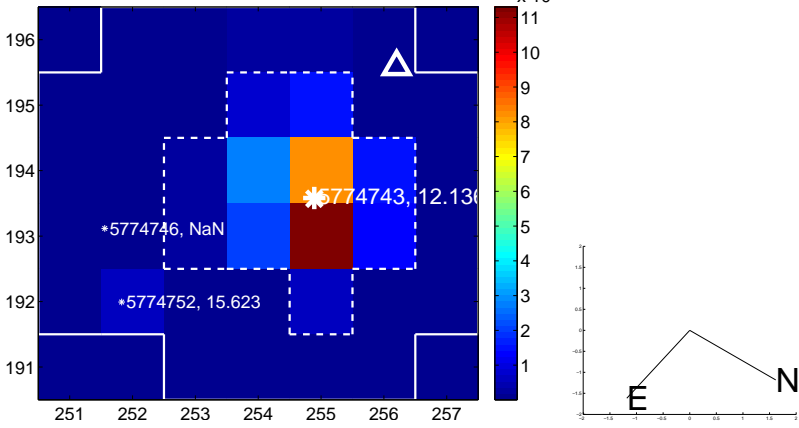
Q14 OOT image



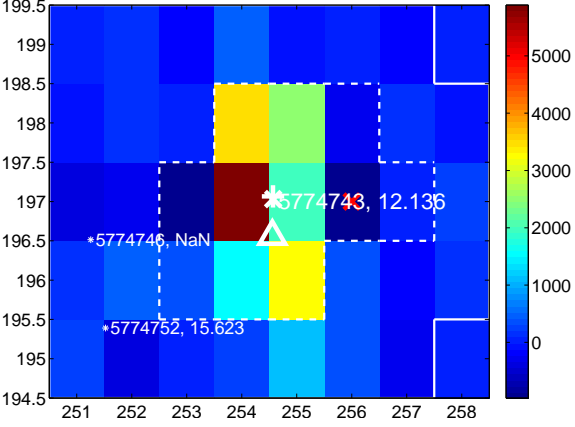
Q15 difference image. Poor Quality



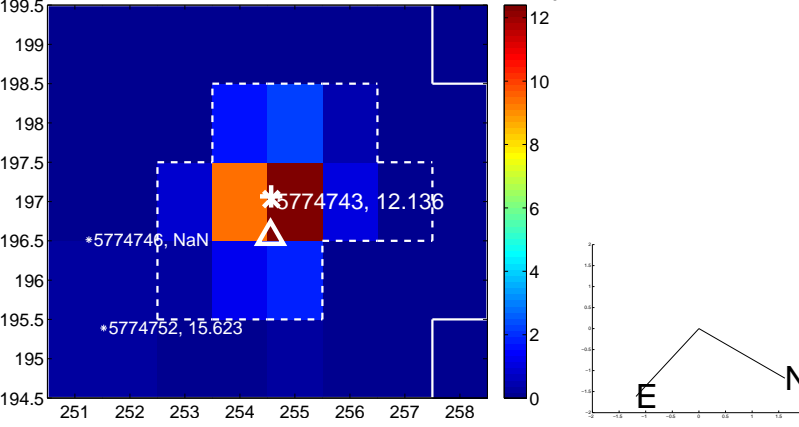
Q15 OOT image



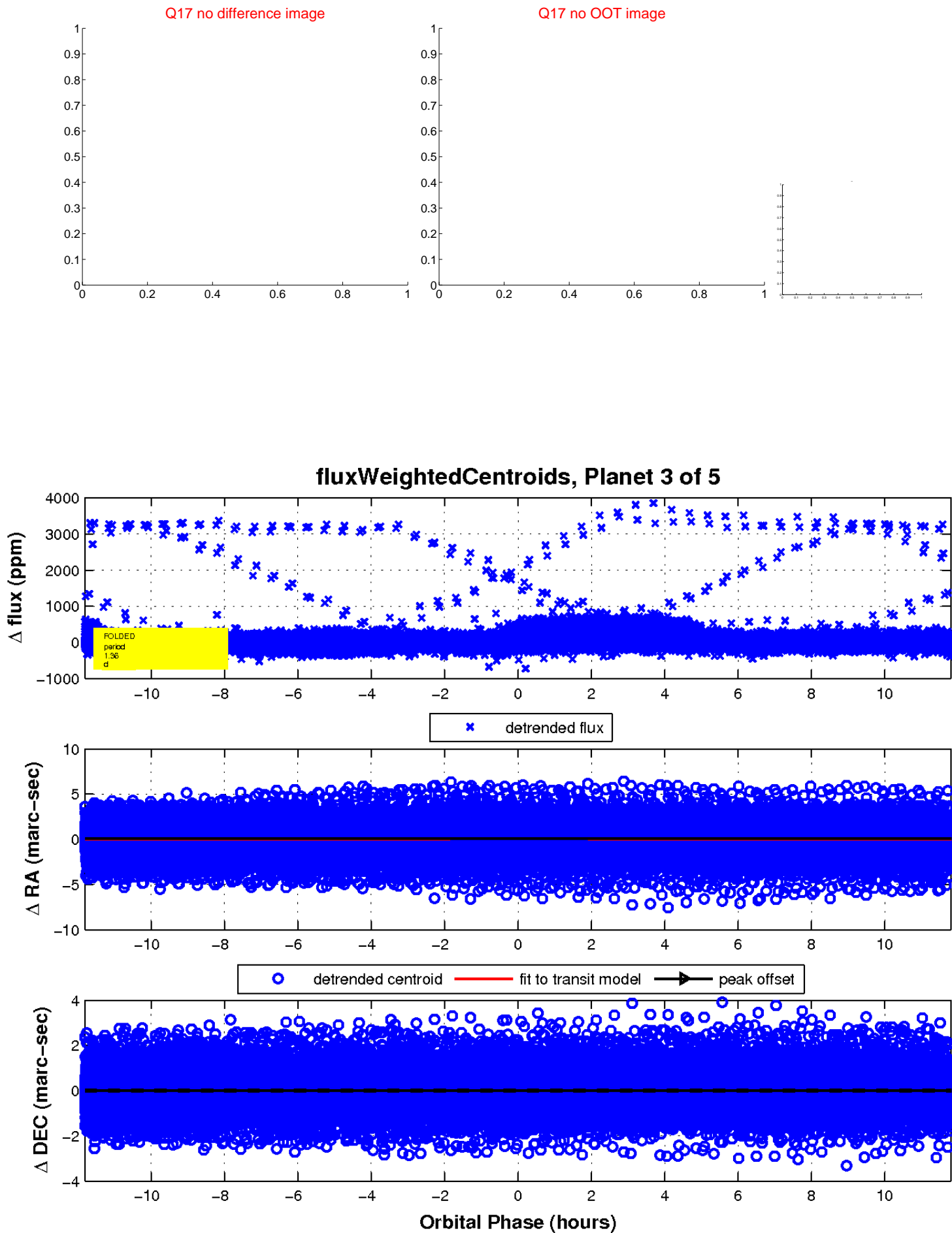
Q16 difference image. Poor Quality



Q16 OOT image

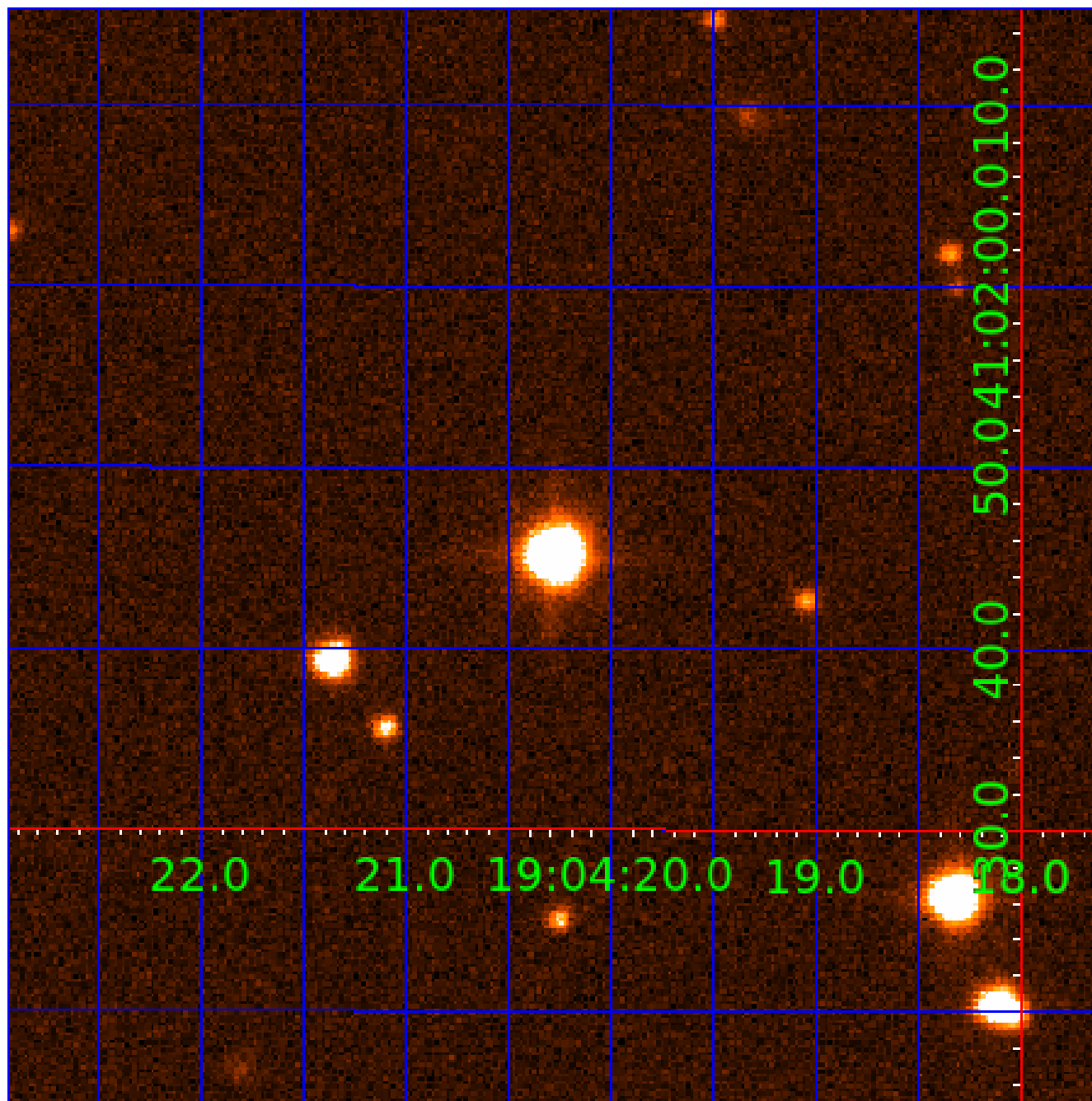


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005774743

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})
005774743-01	OBS	No	4.073588	133.567045	44.5	3.700	12.9	13.8	3.21	8203	2.51	10346.45
005774743-02	OBS	No	2.036752	133.084378	126.2	4.500	12.4	-1.0	3.21	8203	3.64	26072.13
005774743-03	OBS	No	1.357758	131.800399	11.5	3.935	8.4	5.9	3.21	8203	1.29	44771.11
005774743-04	OBS	No	2.036857	133.367773	26.2	6.257	8.4	8.3	3.21	8203	1.96	26070.35
005774743-05	OBS	No	135.501748	238.678205	187.0	15.000	14.6	-1.0	3.21	8203	4.43	96.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005774743-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV
005774743-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS
005774743-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS
005774743-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005774743-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

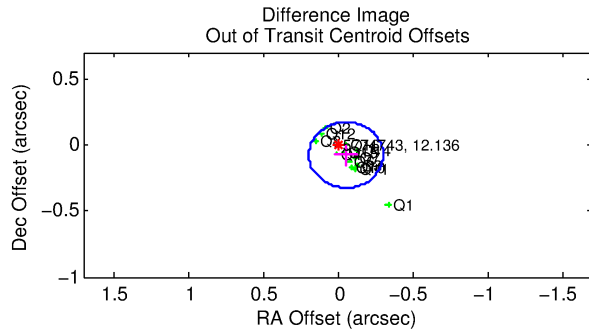
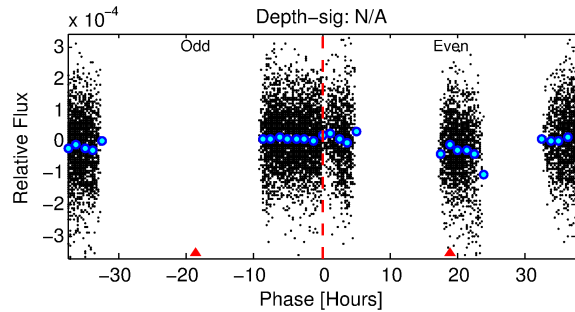
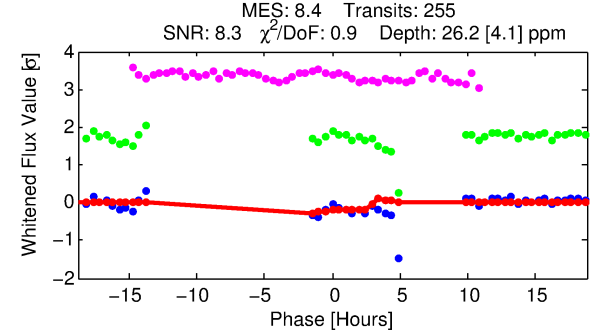
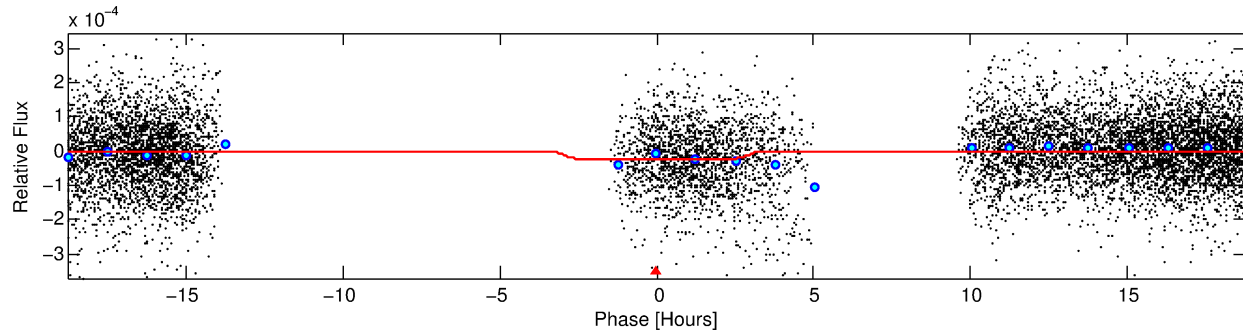
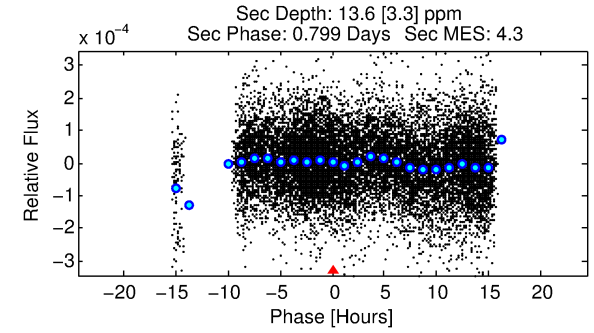
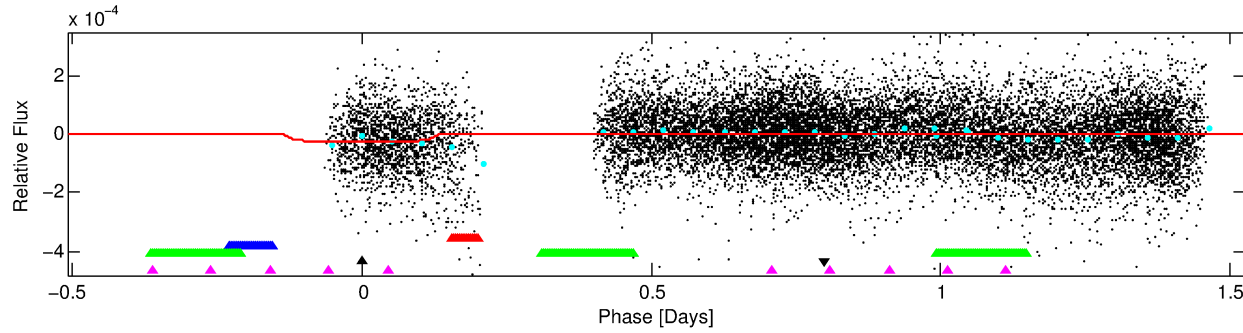
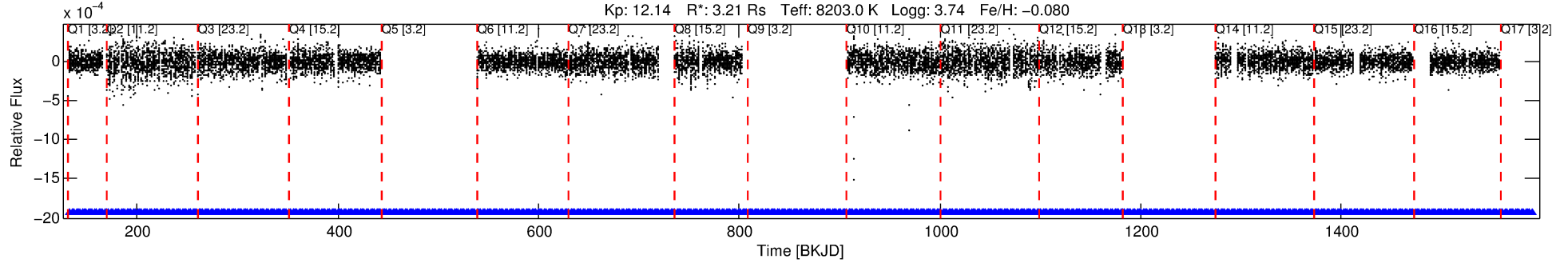
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005774743-04

No Significant Match Found

DV One-Page Summary

KIC: 5774743 Candidate: 4 of 5 Period: 2.037 d



DV Fit Results:

Period = 2.03686 [0.00006] d
Epoch = 133.3678 [0.0425] BKJD
Rp/R* = 0.0056 [0.0024]
a/R* = 1.35 [1.76]
b = 0.93 [0.39]
Seff = 26070.35 [18741.80]
Teq = 3240 [582] K
Rp = 1.96 [1.20] Re
a = 0.0400 [0.0173] AU
Ag = 3.13 [3.53] [0.60σ]
Teffp = 6661 [1506] K [2.12σ]

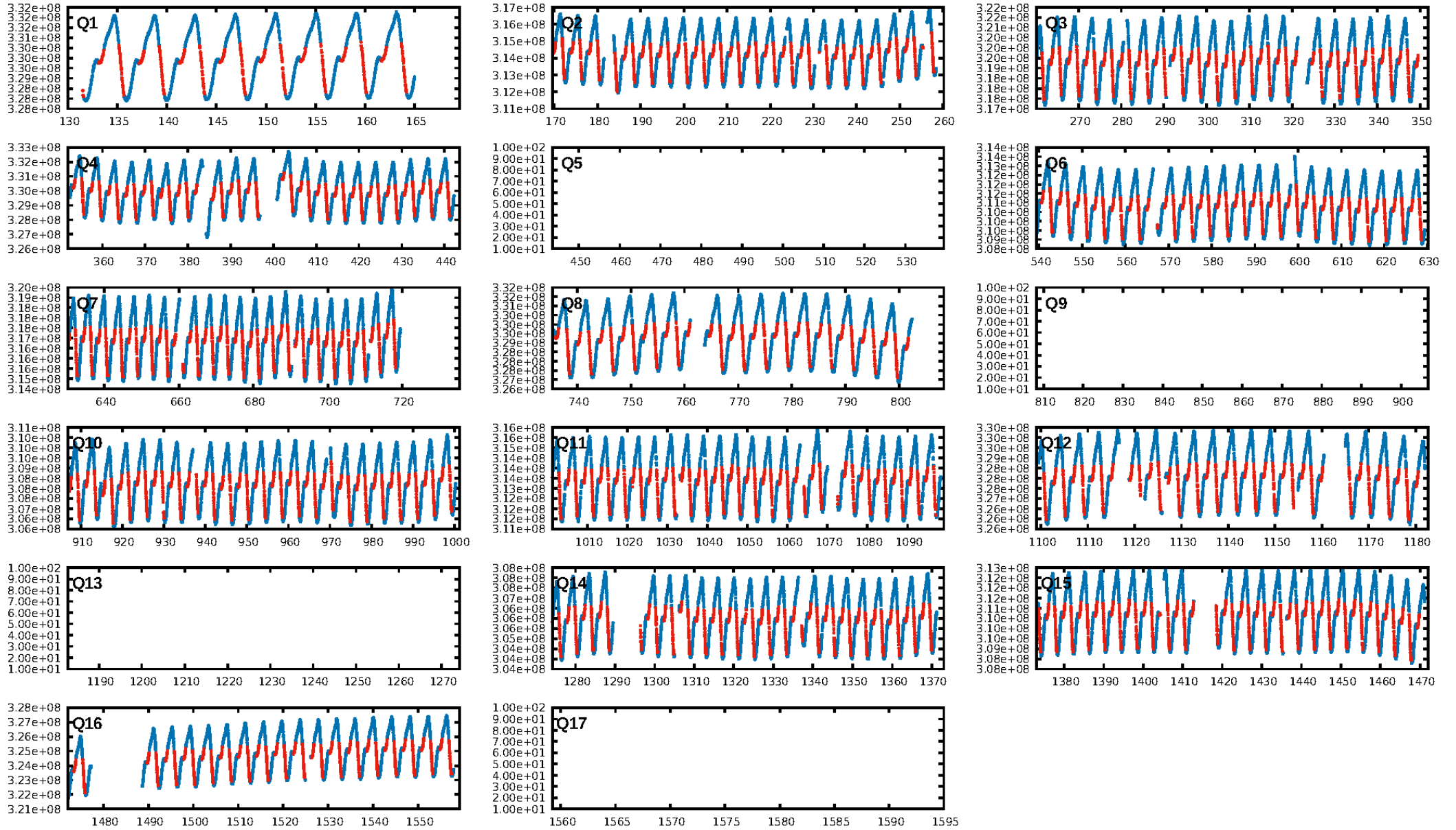
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [6.72σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.99e-12
RollingBand-fgt: 1.00 [247/247]
GhostDiagnostic-chr: -0.3611
Centroid-sig: 0.5%
Centroid-so: 2.047 arcsec [1.93σ]
OotOffset-rm: 0.095 arcsec [1.15σ]
OotOffset-st: 4/4/4/1 [13]
KicOffset-rm: 0.118 arcsec [1.38σ]
KicOffset-st: 4/4/4/1 [13]
DiffImageQuality-fgm: 1.00 [13/13]
DiffImageOverlap-fno: 0.00 [0/13]

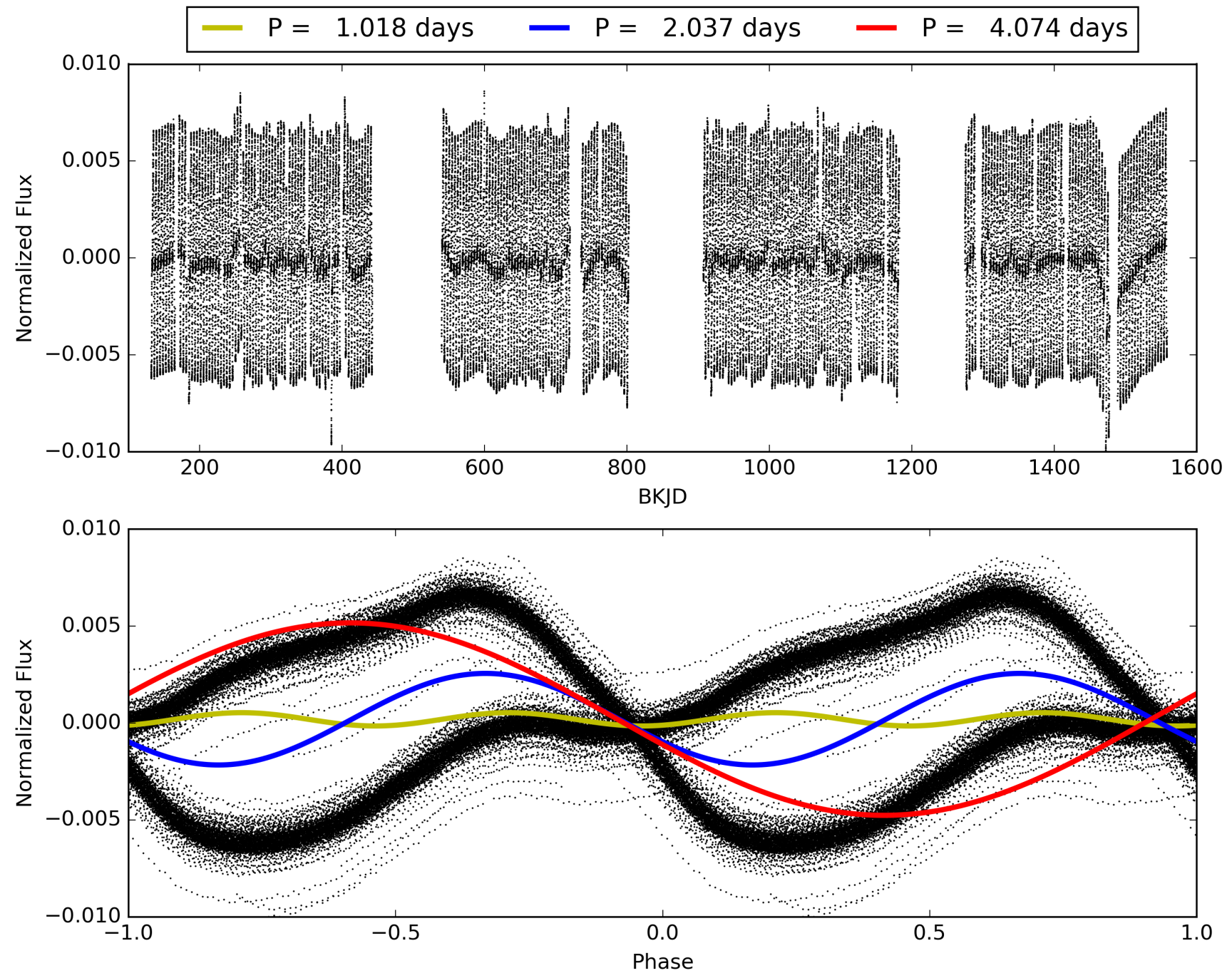
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 23:12:58 Z

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

TCE 005774743-04, PDC Light Curves

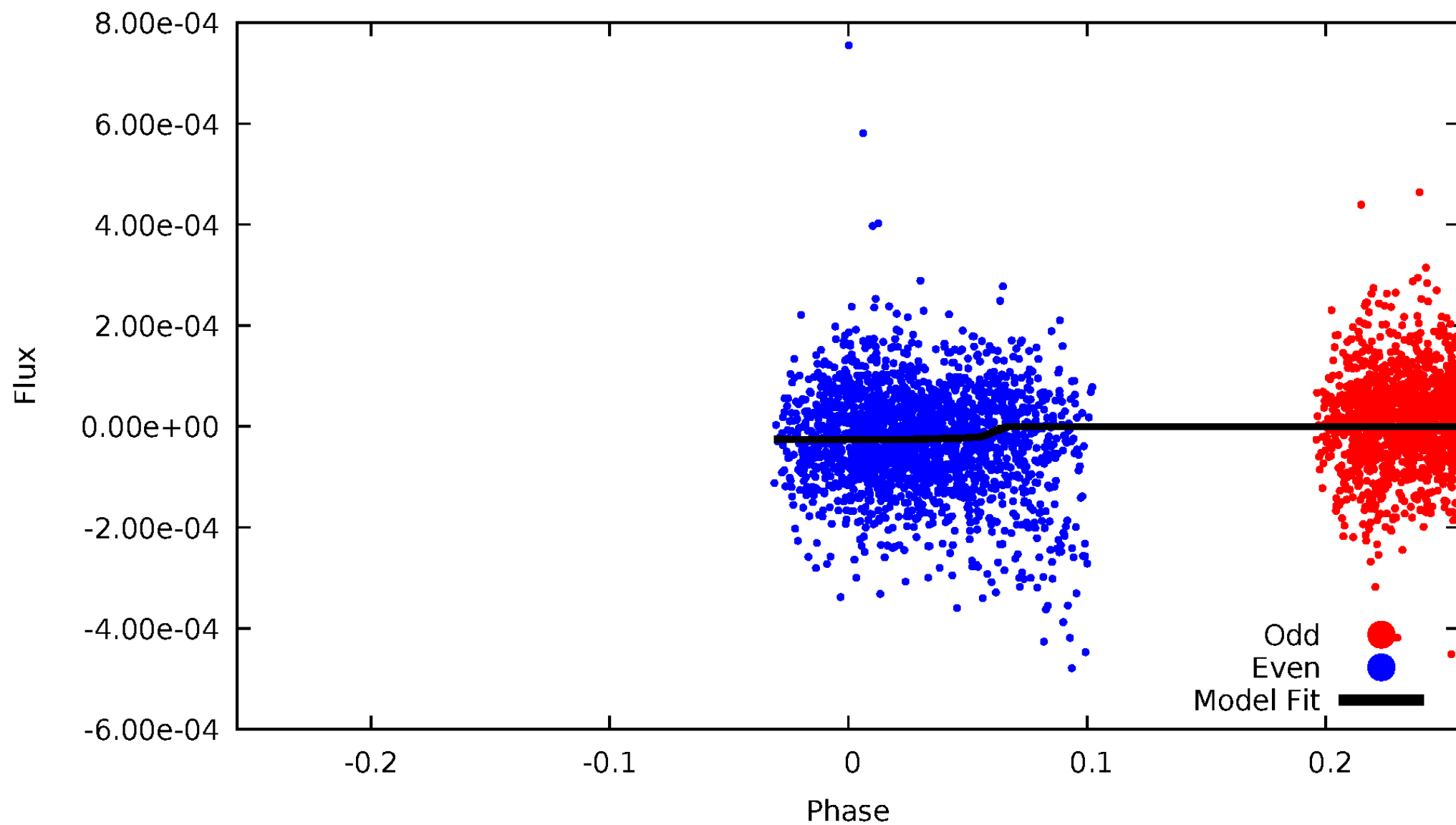


TCE 005774743-04



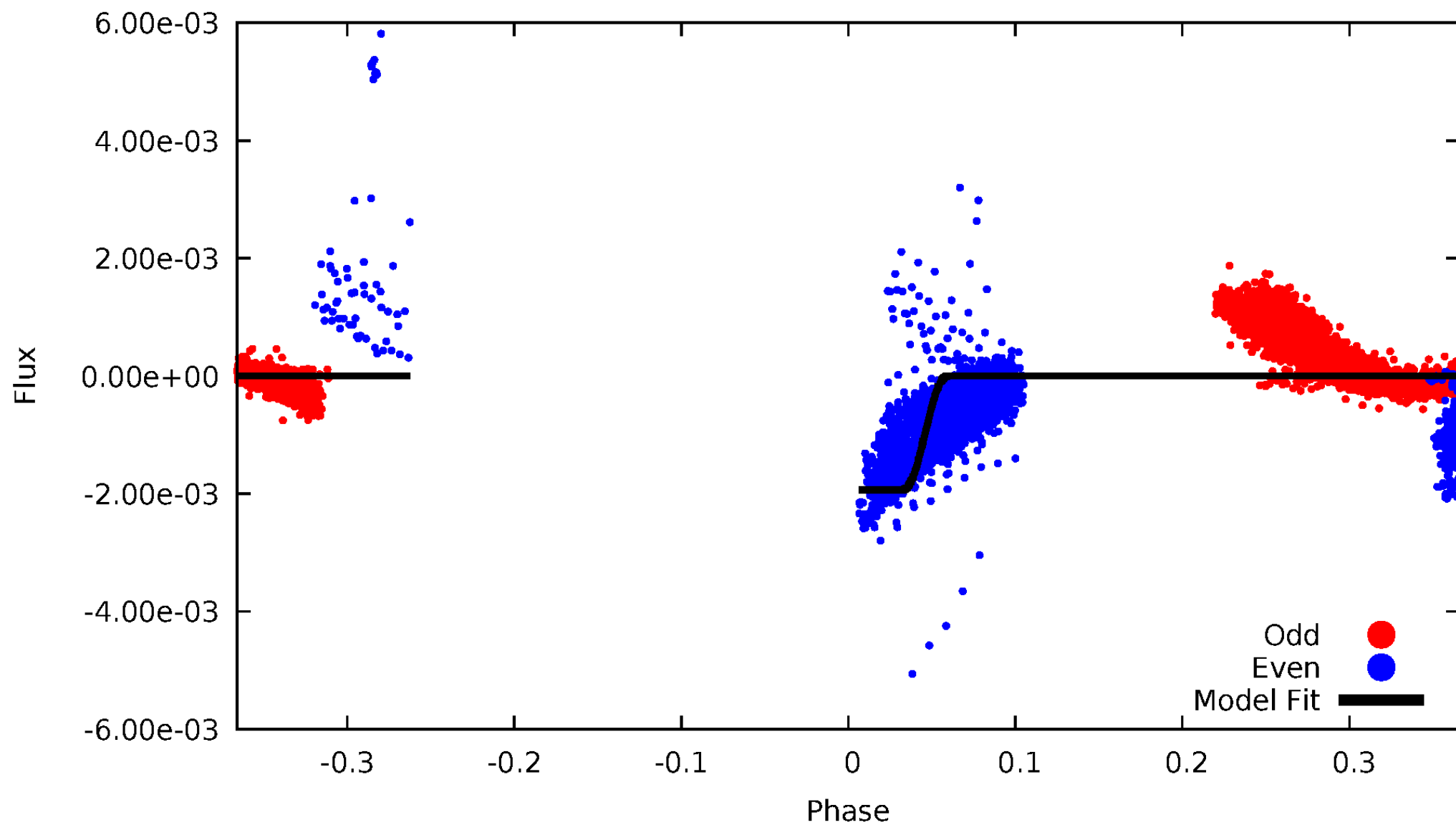
DV Odd/Even

TCE 005774743-04



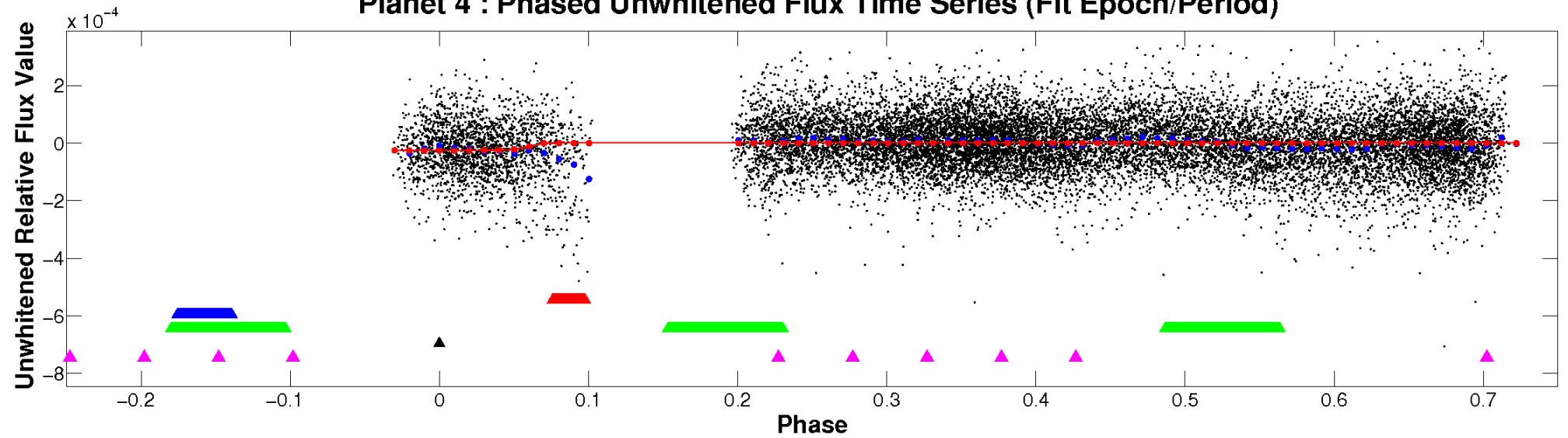
ALT Odd/Even

TCE 005774743-04

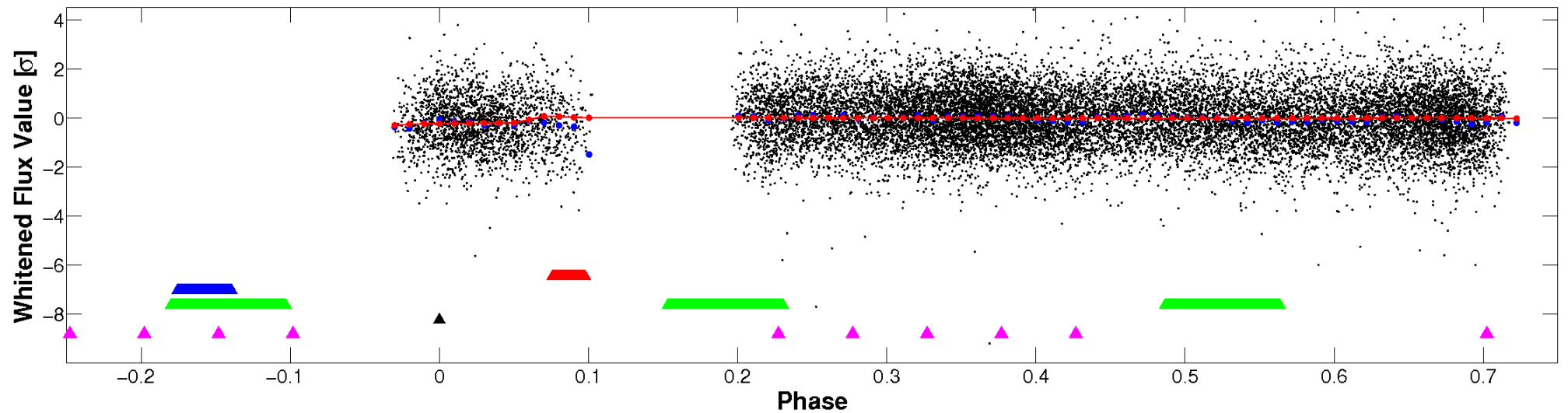


Non-Whitened Vs. Whitened Light Curve

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

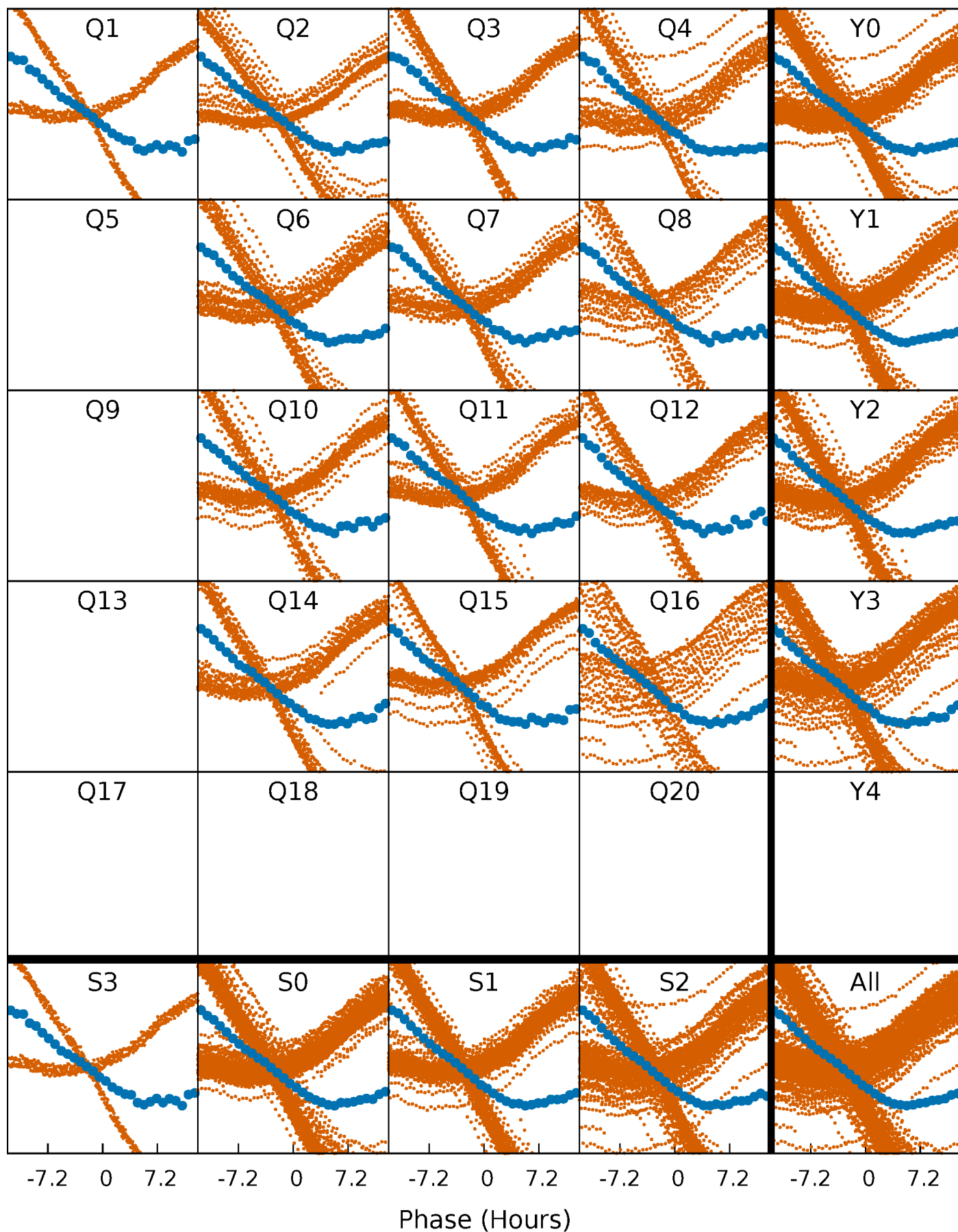


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



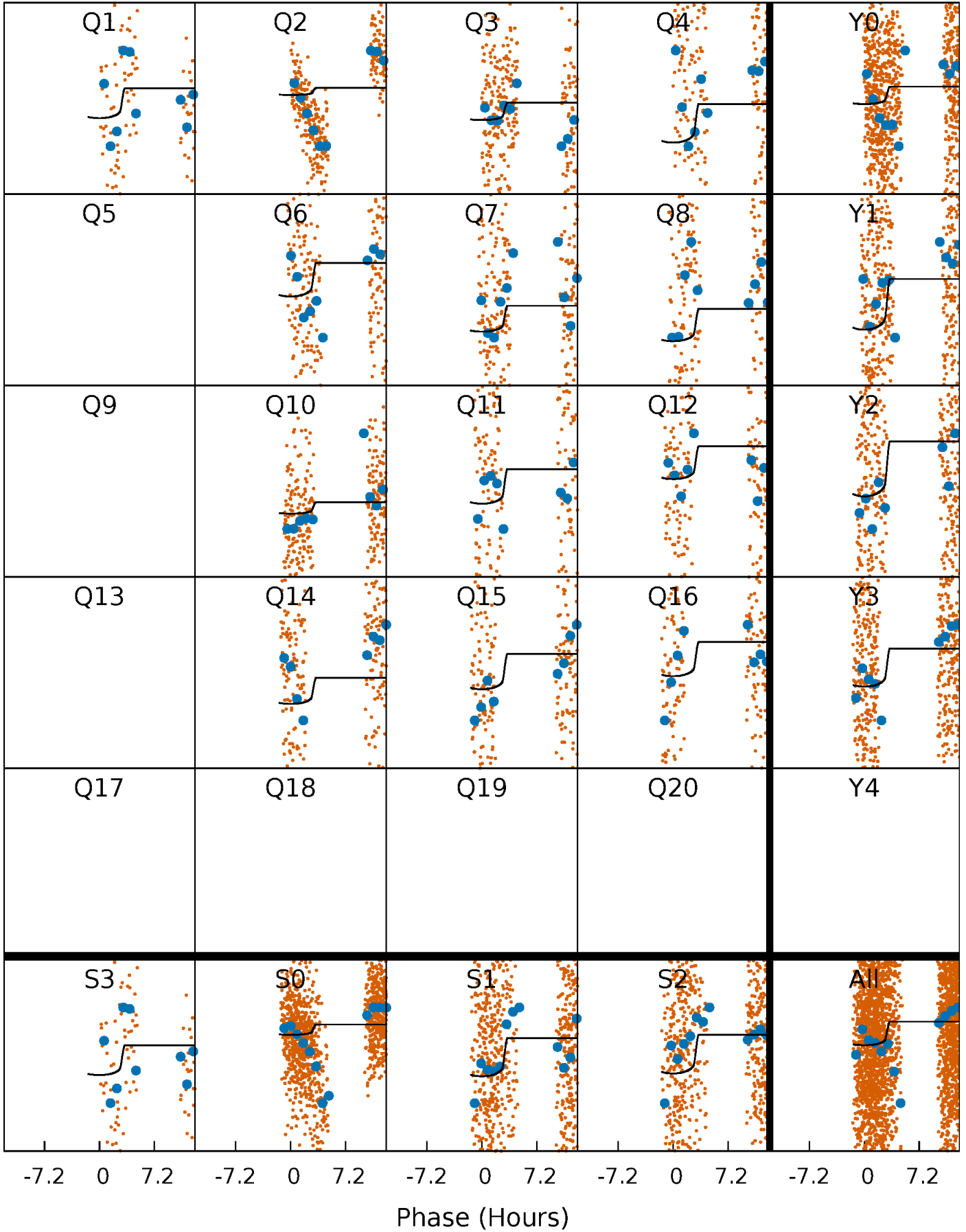
PDC Quarter-Phased Transit Curves

TCE 005774743-04 P= 2.036857 Days $T_0=133.367773$ (BKJD)



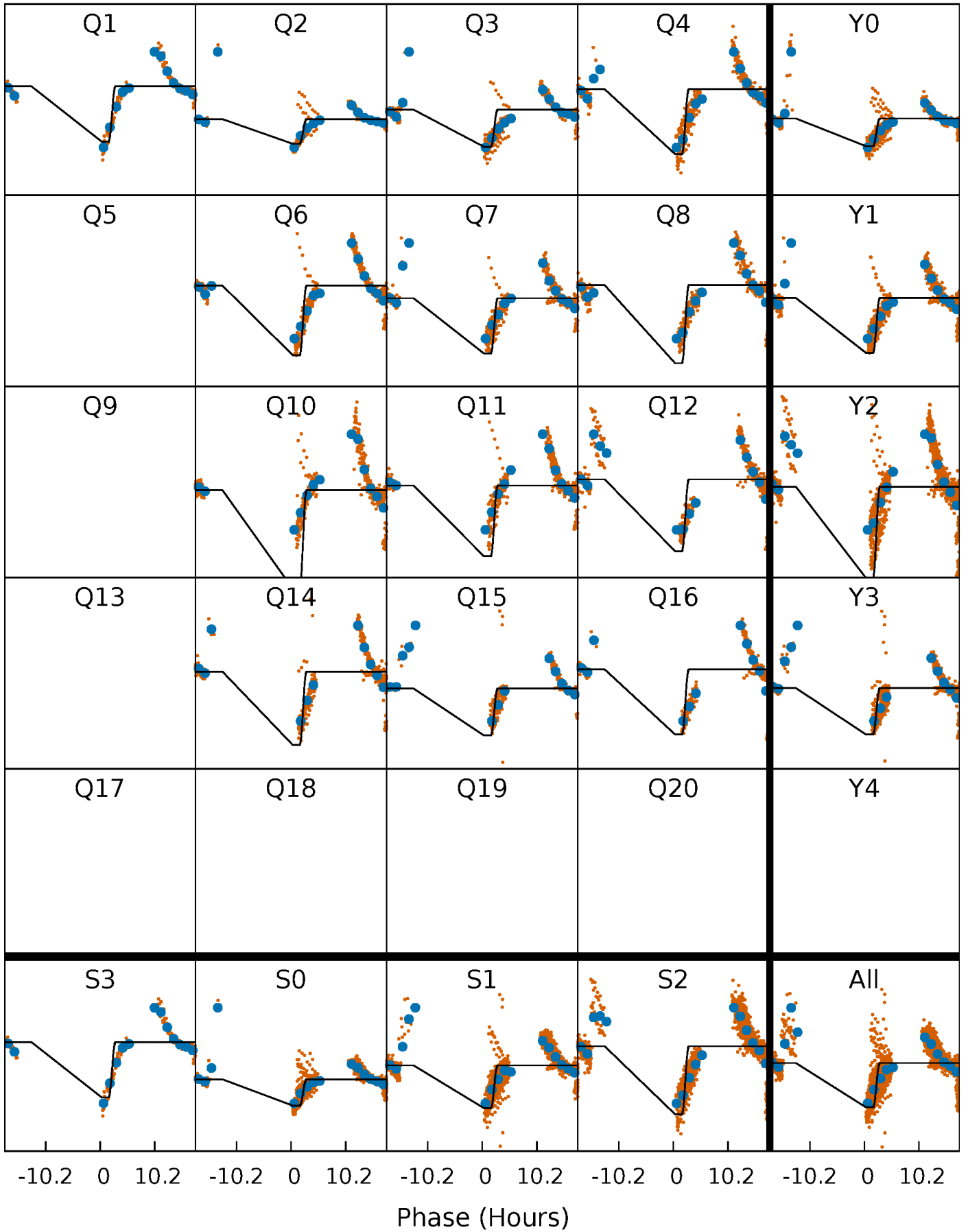
DV Quarter-Phased Transit Curves

TCE 005774743-04 $P = 2.036857$ Days $T_0 = 133.367773$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

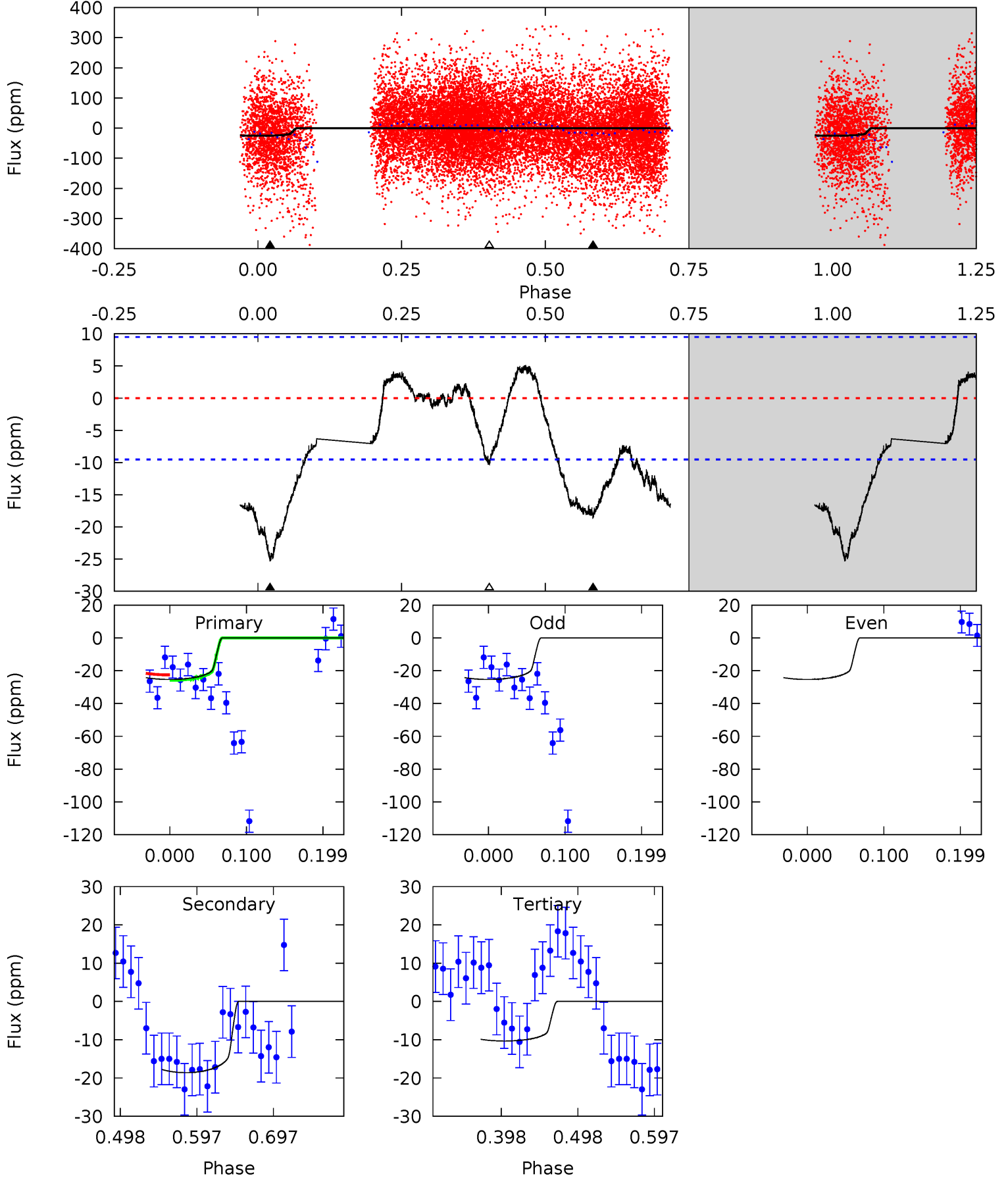
TCE 005774743-04 P= 2.036674 Days $T_0=133.364771$ (BKJD)



DV Model-Shift Uniqueness Test

005774743-04, P = 2.036857 Days, E = 131.330916 Days

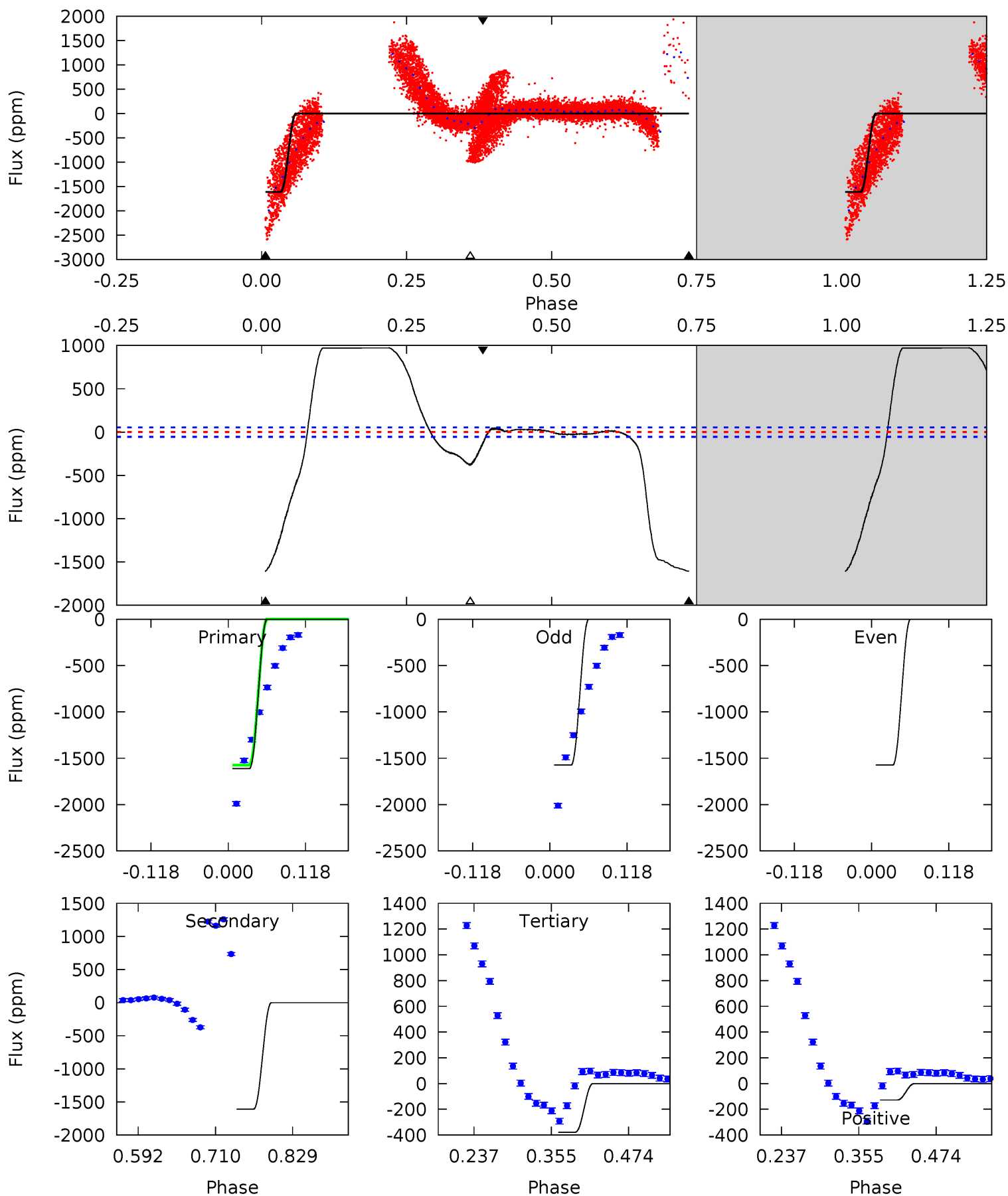
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.2	8.93	4.96	0	4.57	1.65	1.85	7.20	12.2	3.97	8.93	0	0.98	0.17	0.64



Alt Model-Shift Uniqueness Test

005774743-04, P = 2.036674 Days, E = 131.328097 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
133.6	133.3	31.3	-10.6	4.53	1.56	18.8	102.3	144.2	102.0	143.9	0	0.92	0.38	0



Stellar Parameters For KIC 005774743

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8203^{+228}_{-342}	$3.739^{+0.413}_{-0.110}$	$-0.080^{+0.250}_{-0.400}$	$3.206^{+0.828}_{-1.419}$	$2.054^{+0.330}_{-0.495}$	$0.088^{+0.345}_{-0.036}$
	+3%/-4%	+11%/-3%	+312%/-500%	+26%/-44%	+16%/-24%	+393%/-41%
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 005774743-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-19 ± 2	$1.69^{+0.97}_{-0.70}$	4329^{+374}_{-489}	6899^{+2711}_{-1310}	$5.631^{+10.723}_{-3.327}$
Alt.	-1608 ± 12	$14.55^{+2.49}_{-3.31}$	4382^{+335}_{-495}	7632^{+391}_{-382}	$6.760^{+3.997}_{-1.734}$

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

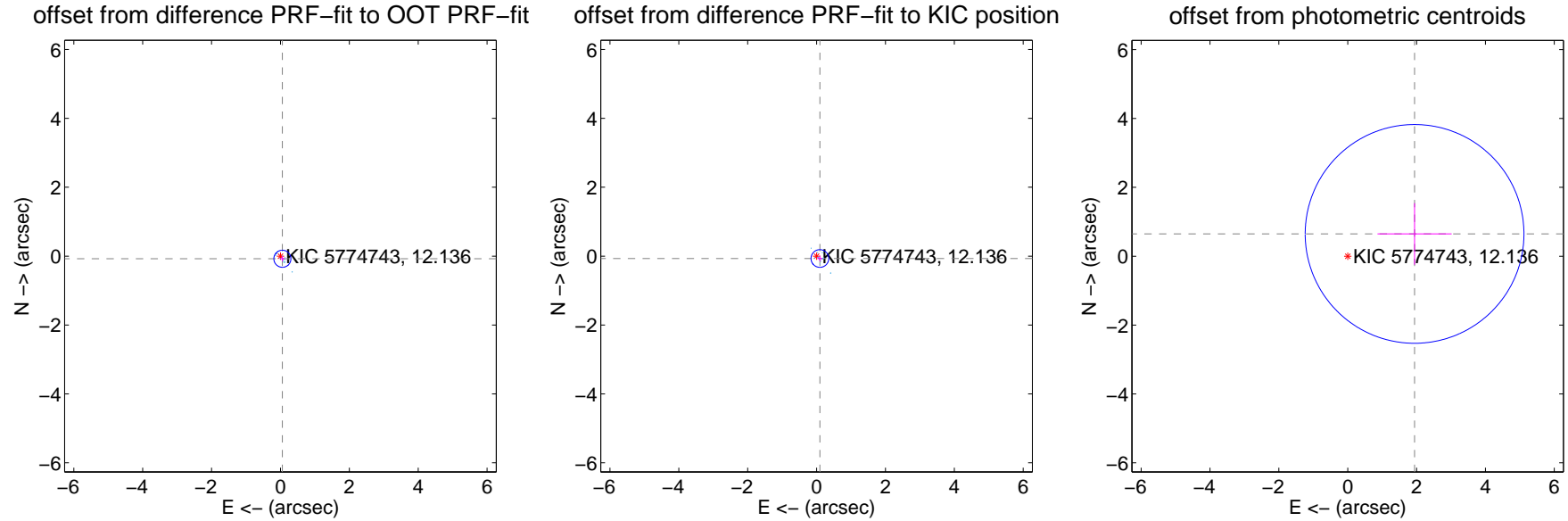
DV Centroid Data

Supplemental centroid analysis for 005774743-04. Kepler magnitude: 12.14. Transit SNR 8.30

There are 13 quarters with good PRF difference image offsets

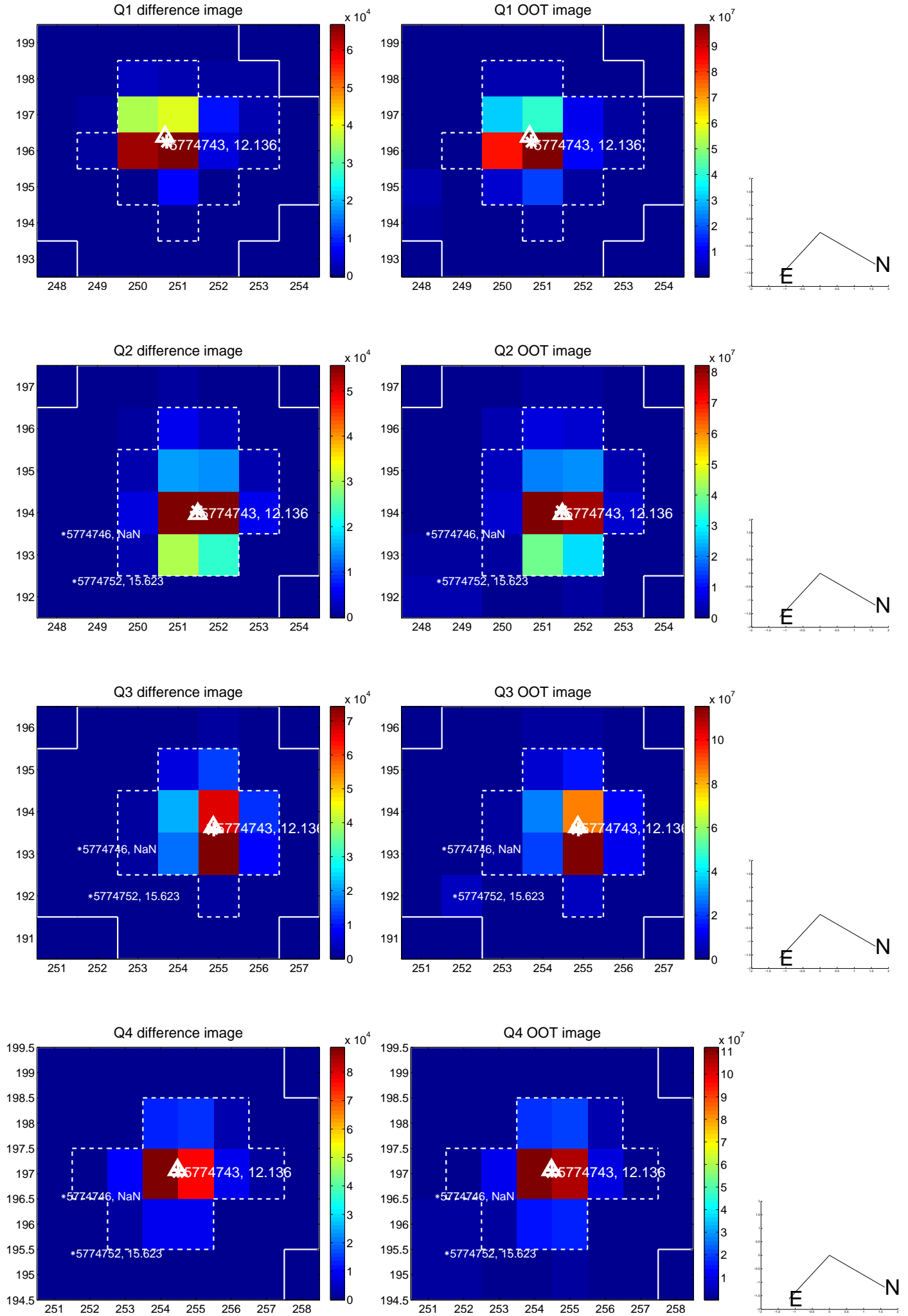
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.095 ± 0.083	1.15	-0.056 ± 0.074	-0.076 ± 0.077
PRF-fit source offset from KIC position	0.118 ± 0.086	1.38	-0.096 ± 0.076	-0.069 ± 0.081
photometric centroid source offset	2.05 ± 1.06	1.93	-1.94 ± 1.08	0.65 ± 0.89

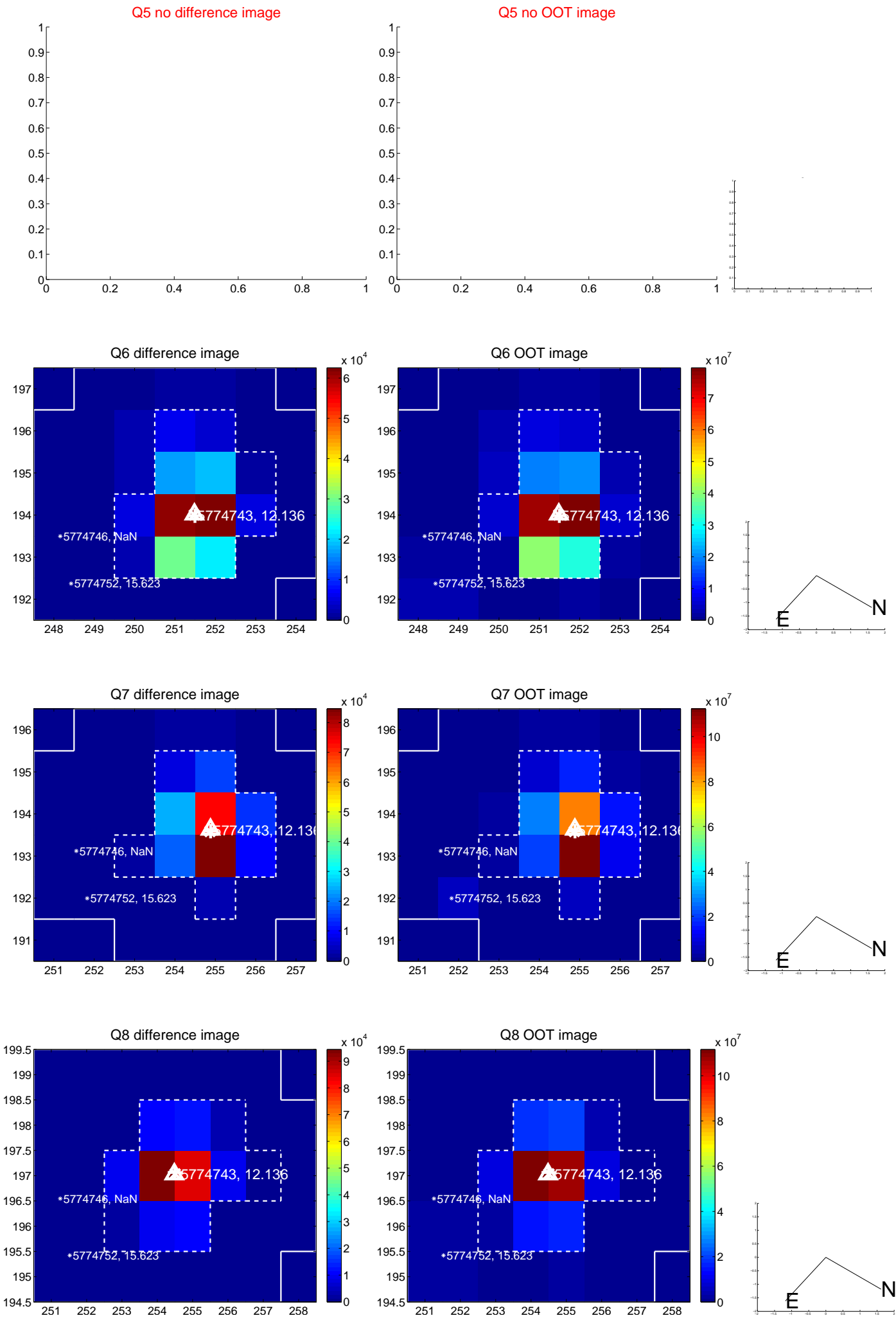


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

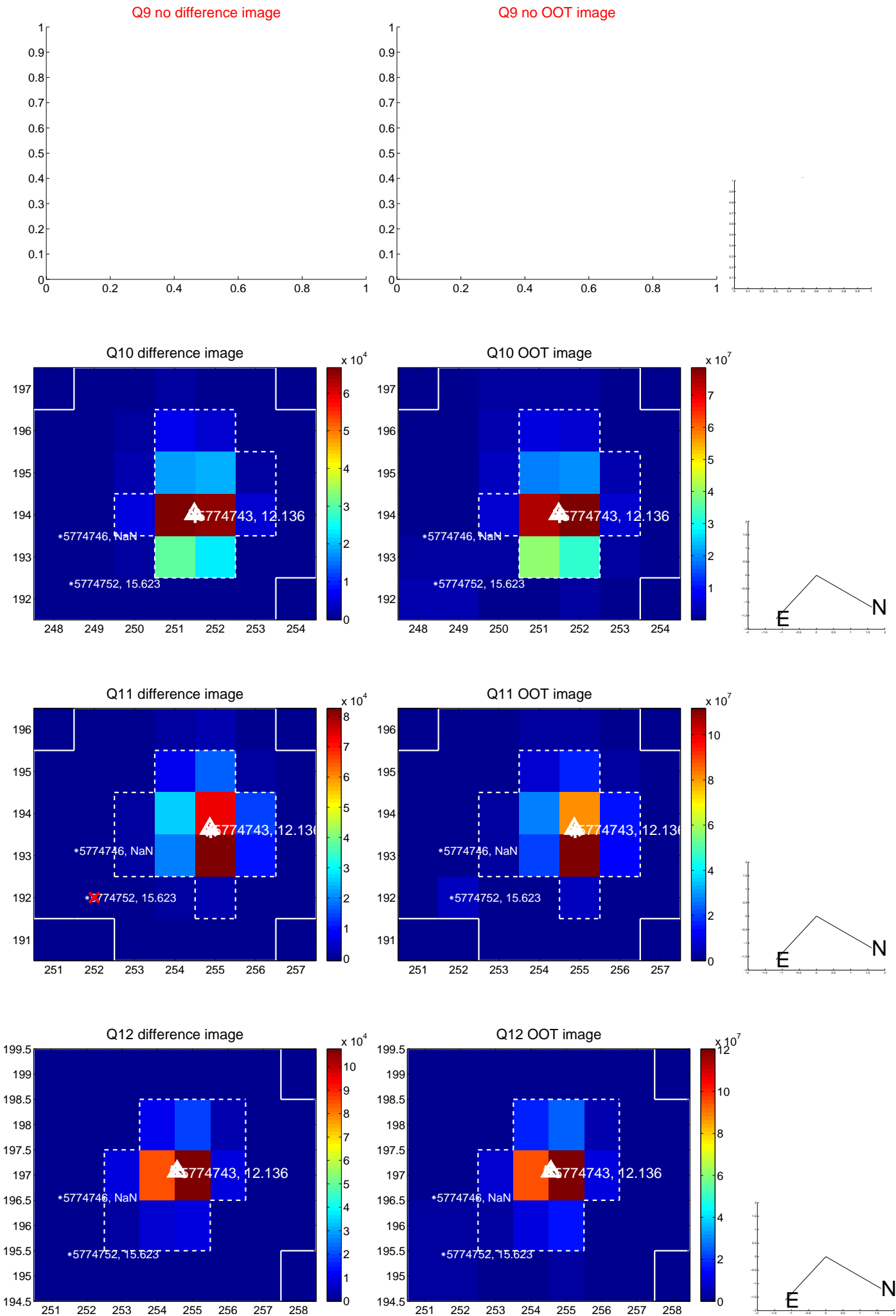
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



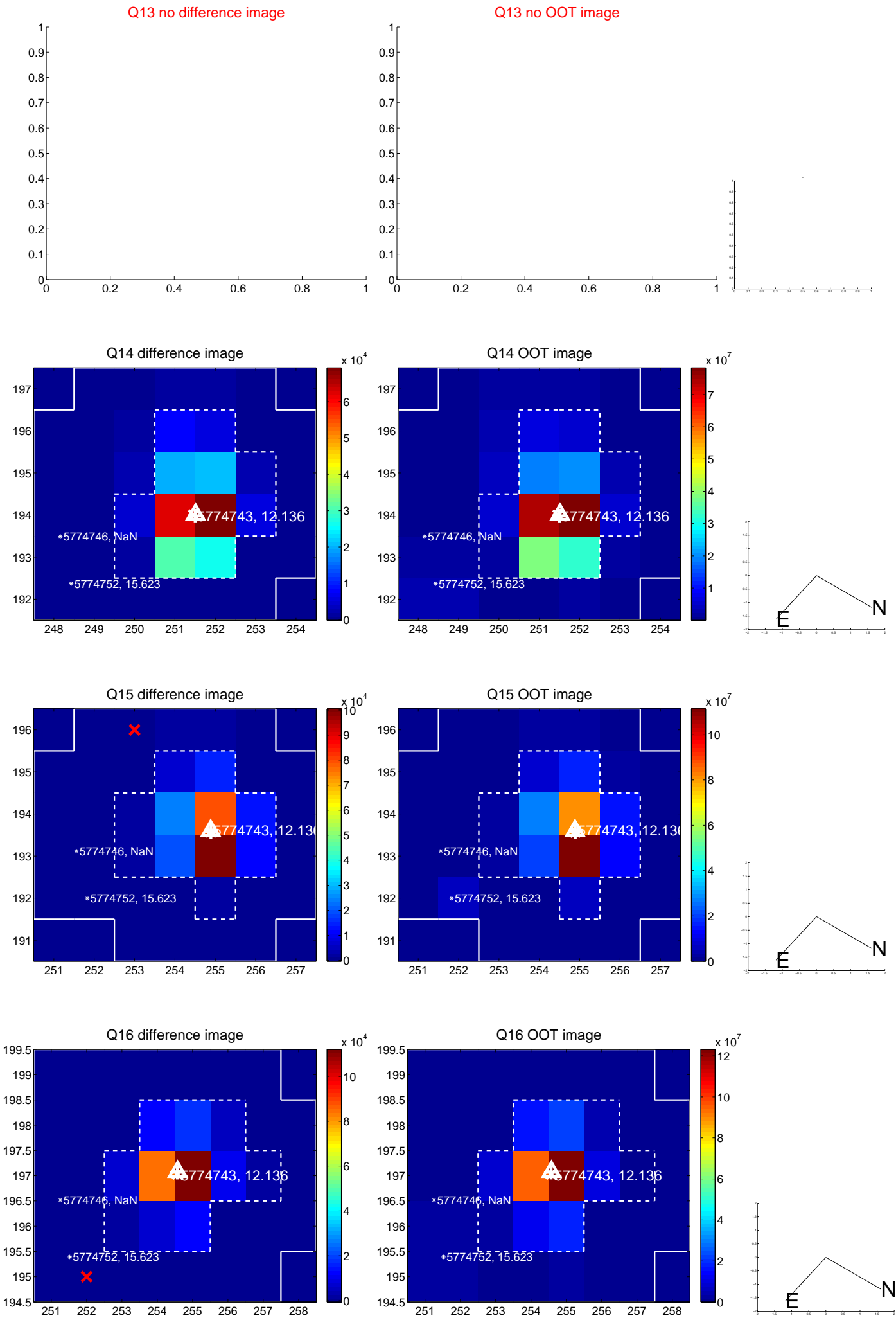
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



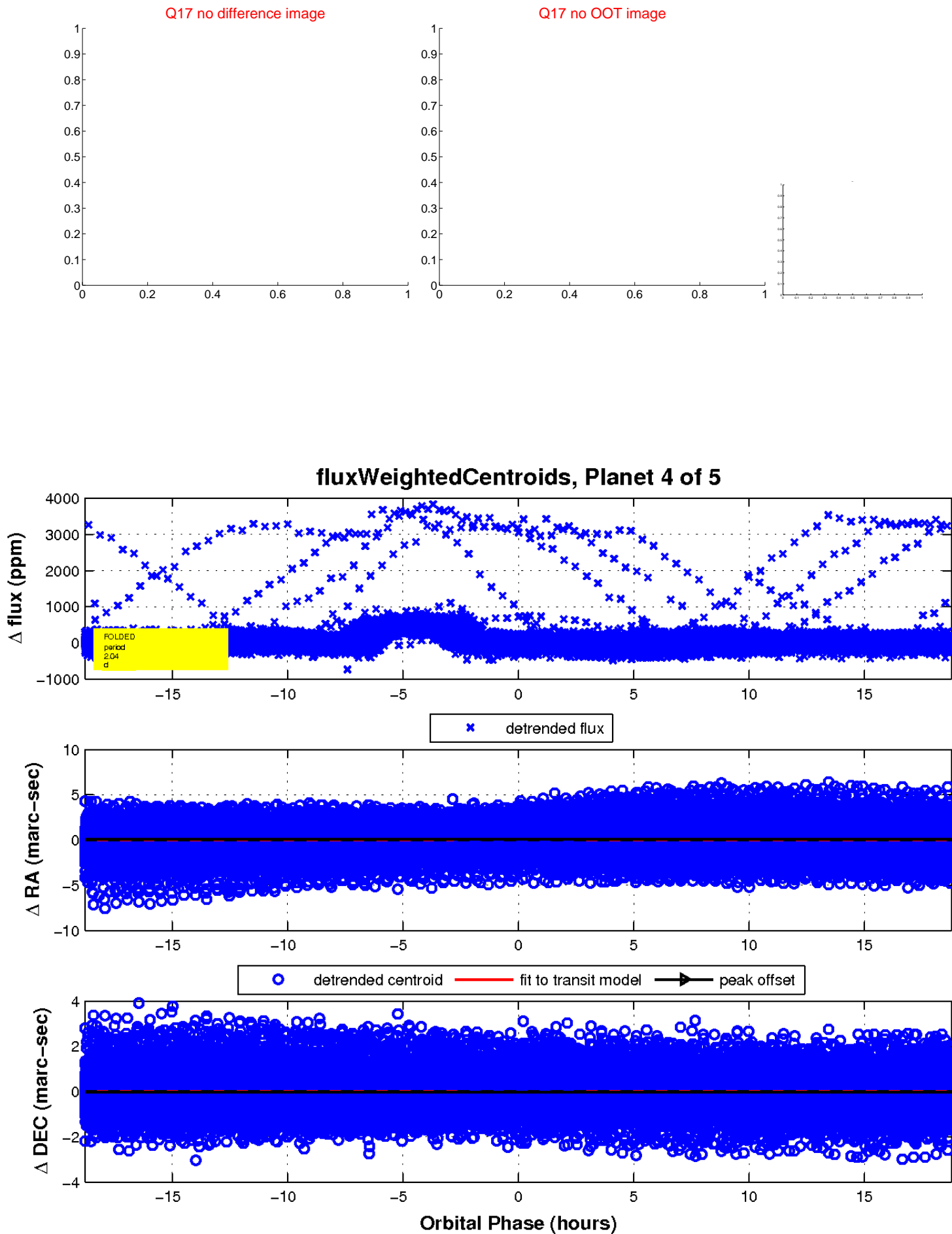
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

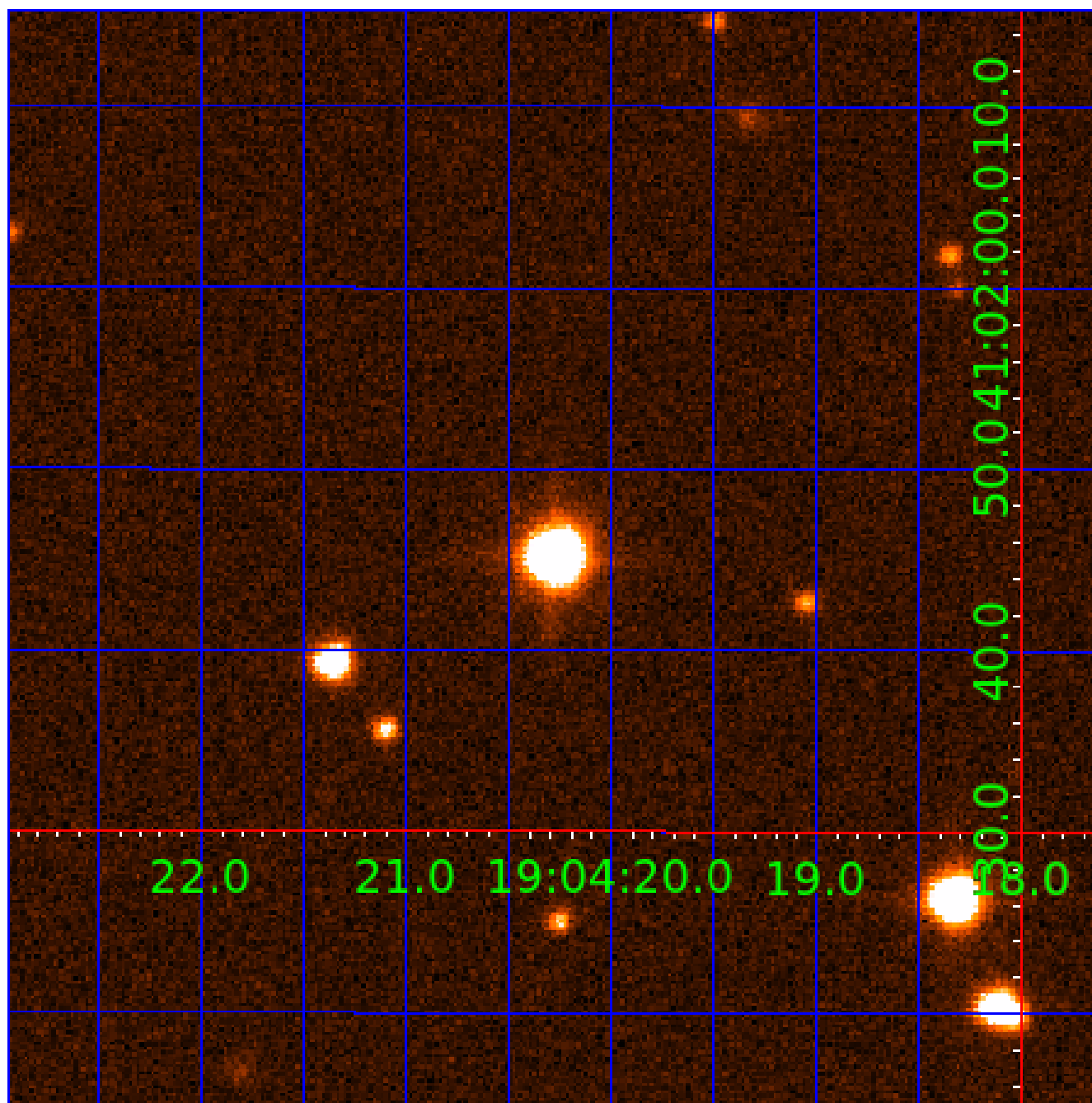


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005774743

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})
005774743-01	OBS	No	4.073588	133.567045	44.5	3.700	12.9	13.8	3.21	8203	2.51	10346.45
005774743-02	OBS	No	2.036752	133.084378	126.2	4.500	12.4	-1.0	3.21	8203	3.64	26072.13
005774743-03	OBS	No	1.357758	131.800399	11.5	3.935	8.4	5.9	3.21	8203	1.29	44771.11
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005774743-05	OBS	No	135.501748	238.678205	187.0	15.000	14.6	-1.0	3.21	8203	4.43	96.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005774743-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV
005774743-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS
005774743-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS
005774743-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005774743-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

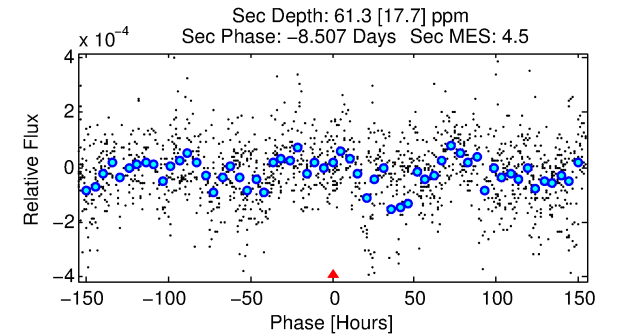
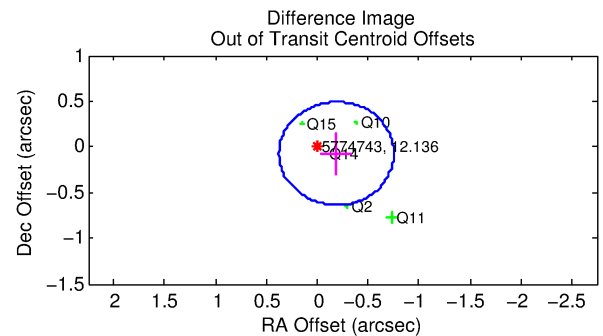
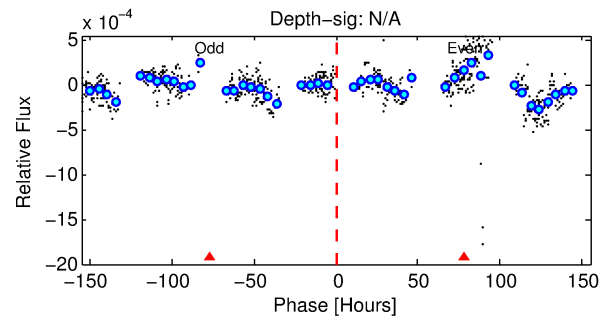
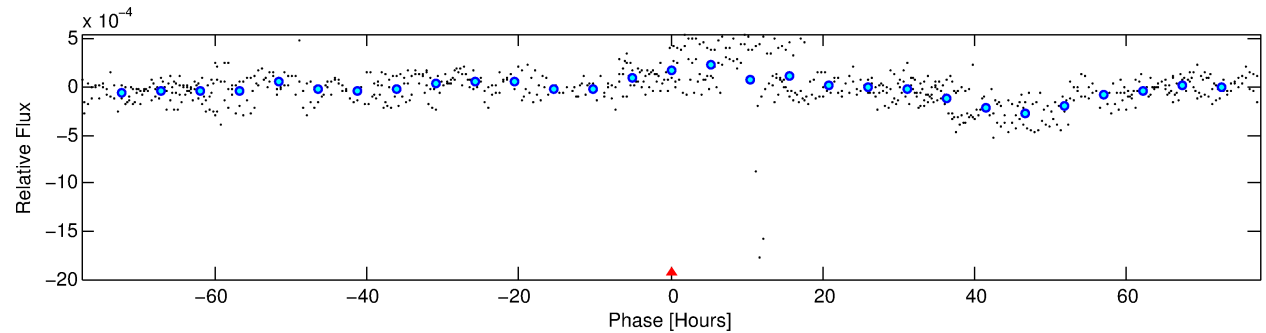
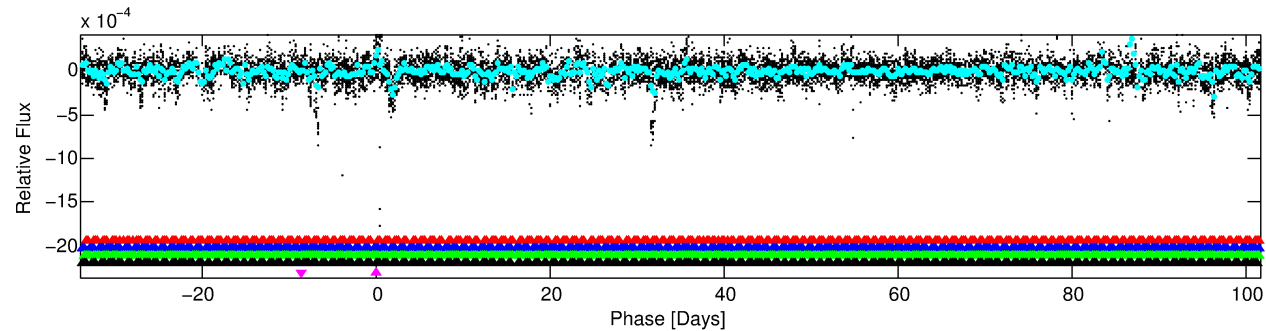
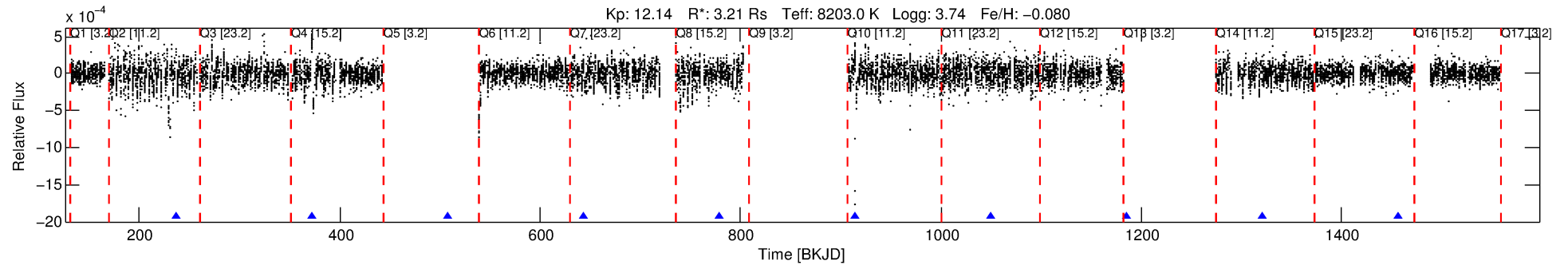
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005774743-05

No Significant Match Found

DV One-Page Summary

KIC: 5774743 Candidate: 5 of 5 Period: 135.502 d



TPS TCE Results:

Period = 135.50175 d
Epoch = 238.6782 BKJD

DV fit results are unavailable

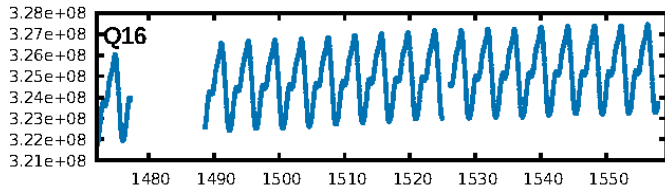
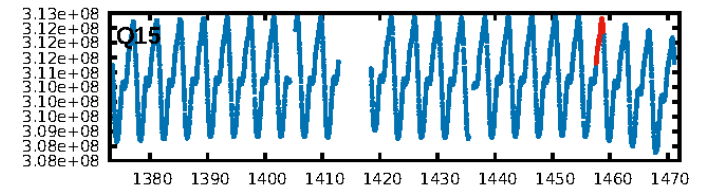
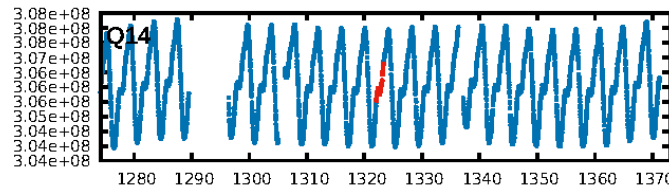
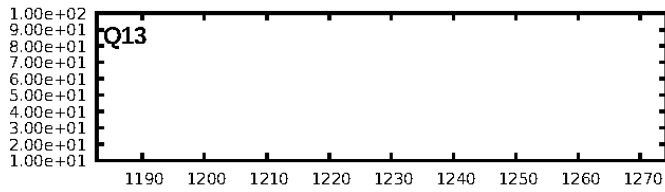
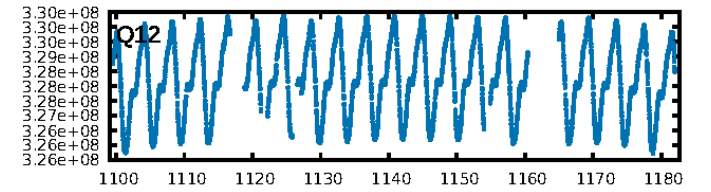
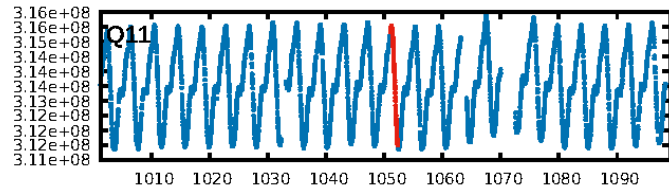
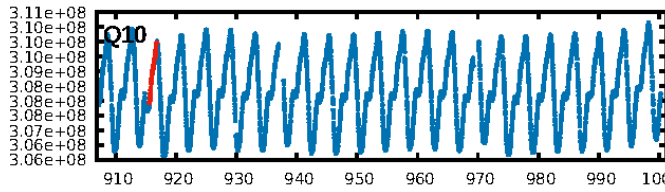
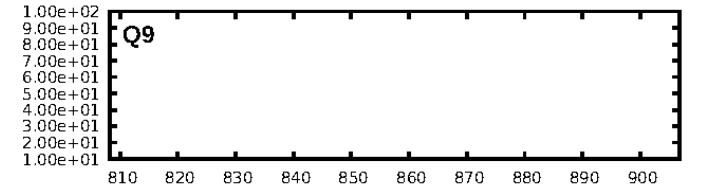
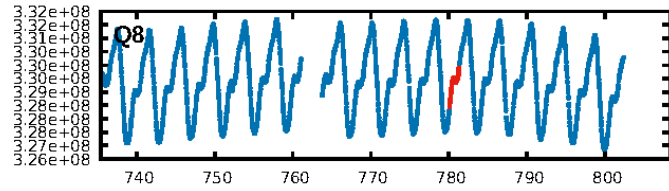
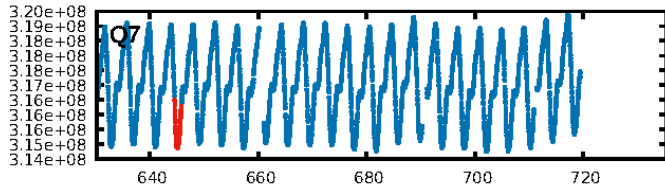
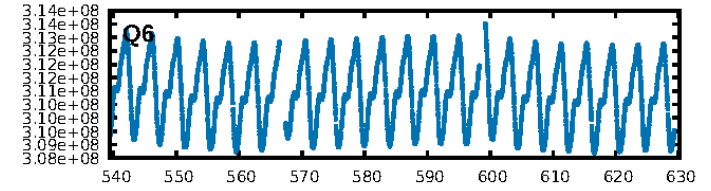
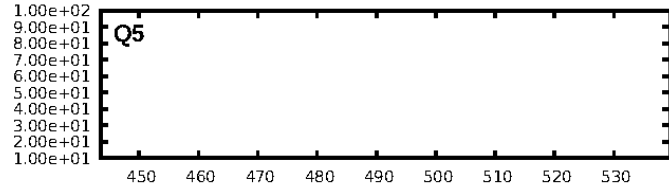
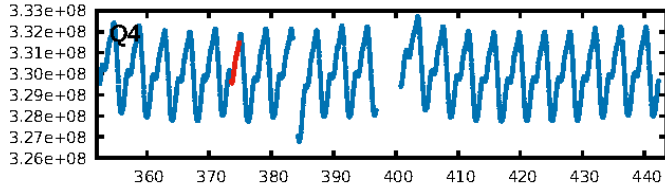
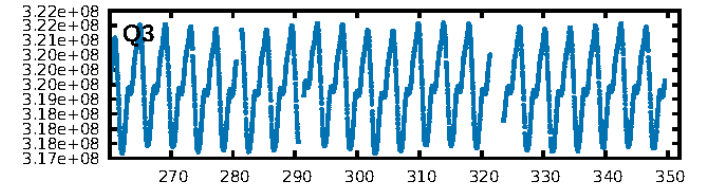
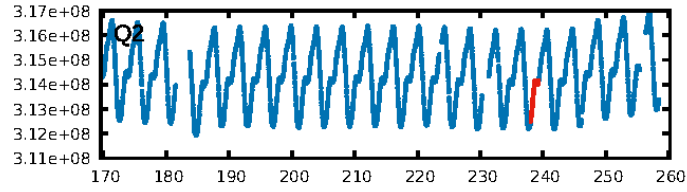
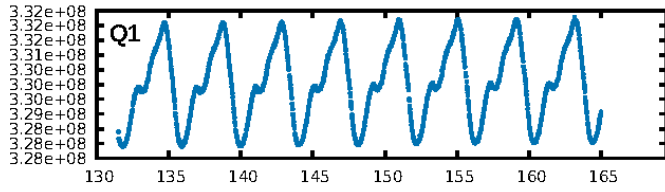
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [204.17σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 7.73e-25
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: -1.097
Centroid-sig: 27.9%
Centroid-so: 0.098 arcsec [1.28σ]
OotOffset-rm: 0.201 arcsec [1.07σ]
KicOffset-rm: 0.211 arcsec [1.59σ]
OotOffset-st: 3/2/0/0 [5]
KicOffset-st: 3/2/0/0 [5]
DiffImageQuality-fgm: 0.80 [4/5]
DiffImageOverlap-fno: 0.00 [0/6]

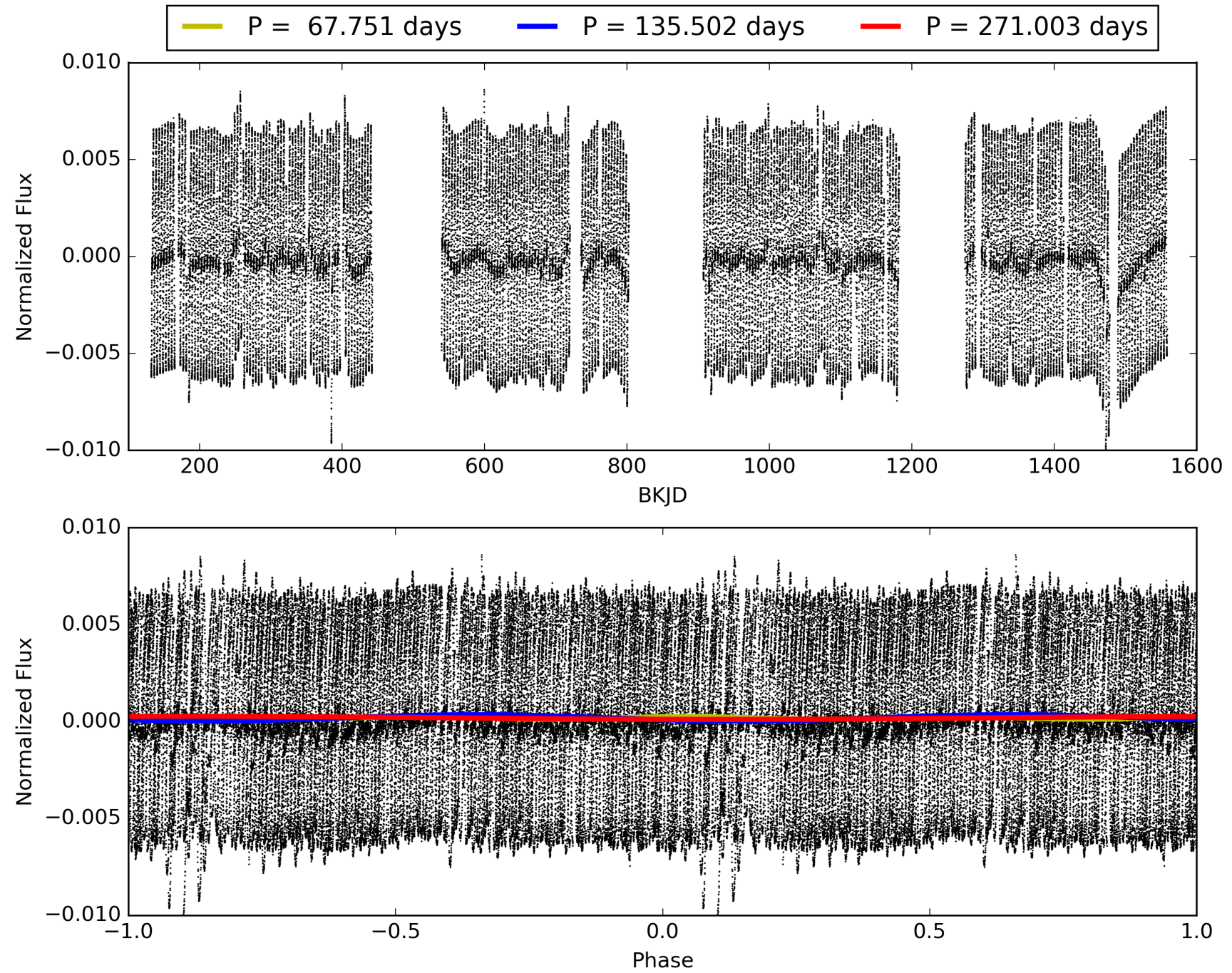
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 23:13:03 Z

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

TCE 005774743-05, PDC Light Curves

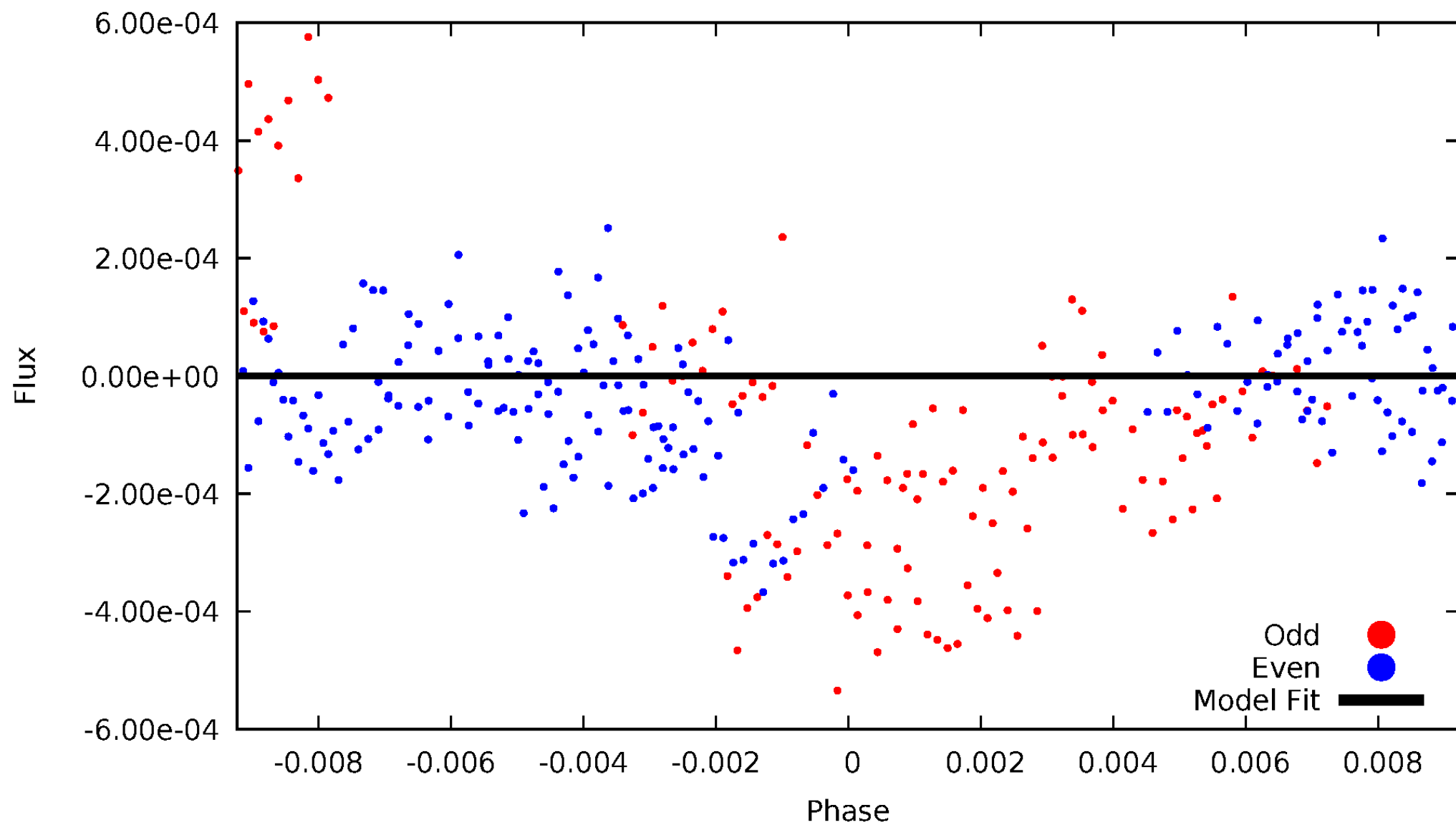


TCE 005774743-05



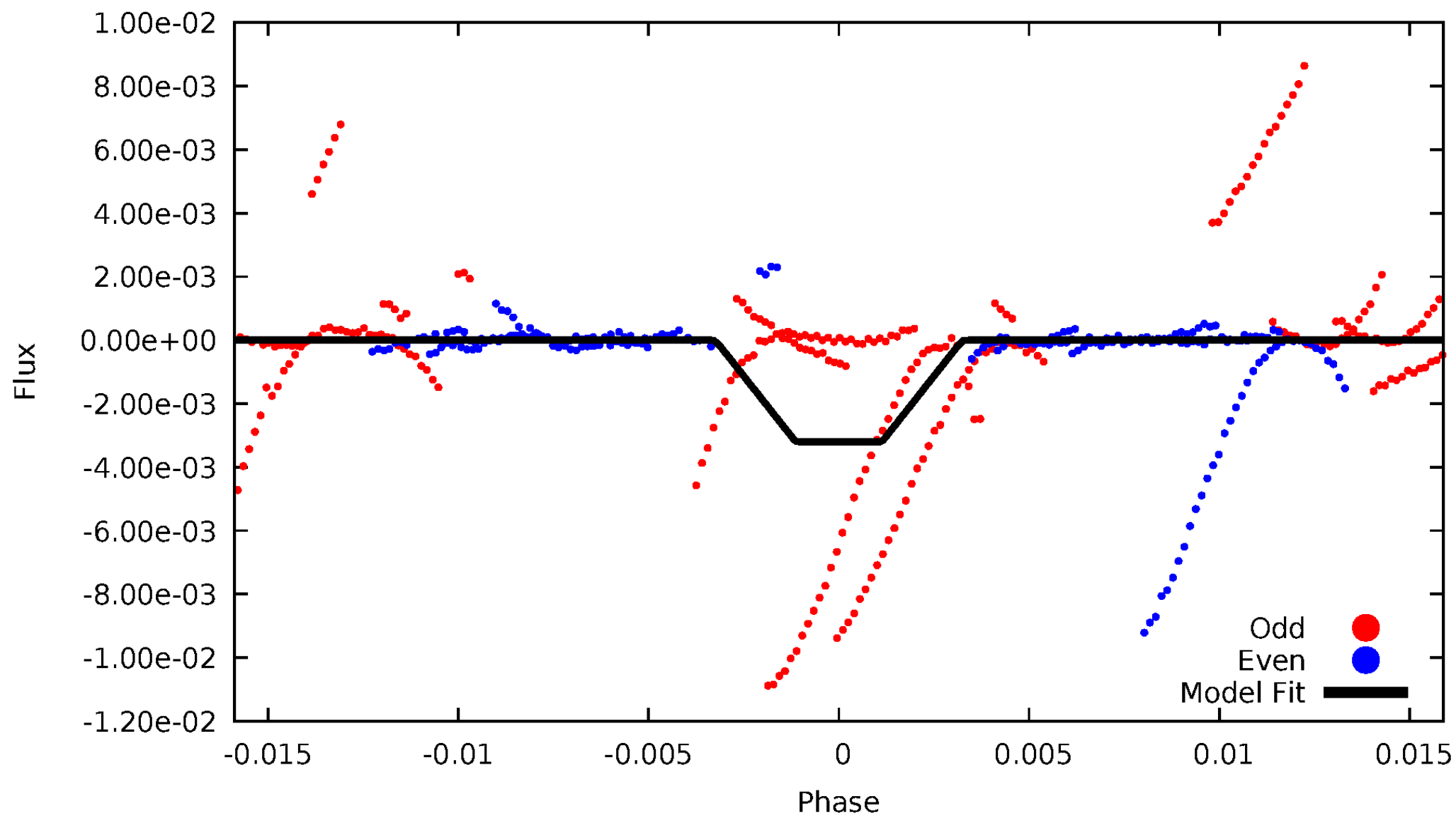
DV Odd/Even

TCE 005774743-05

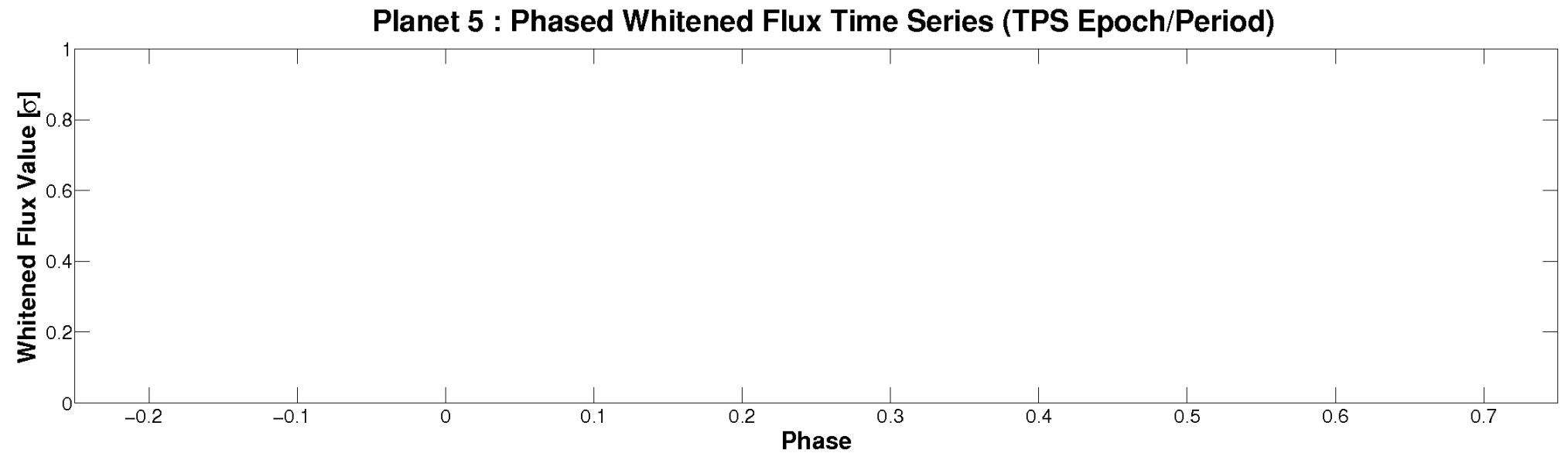
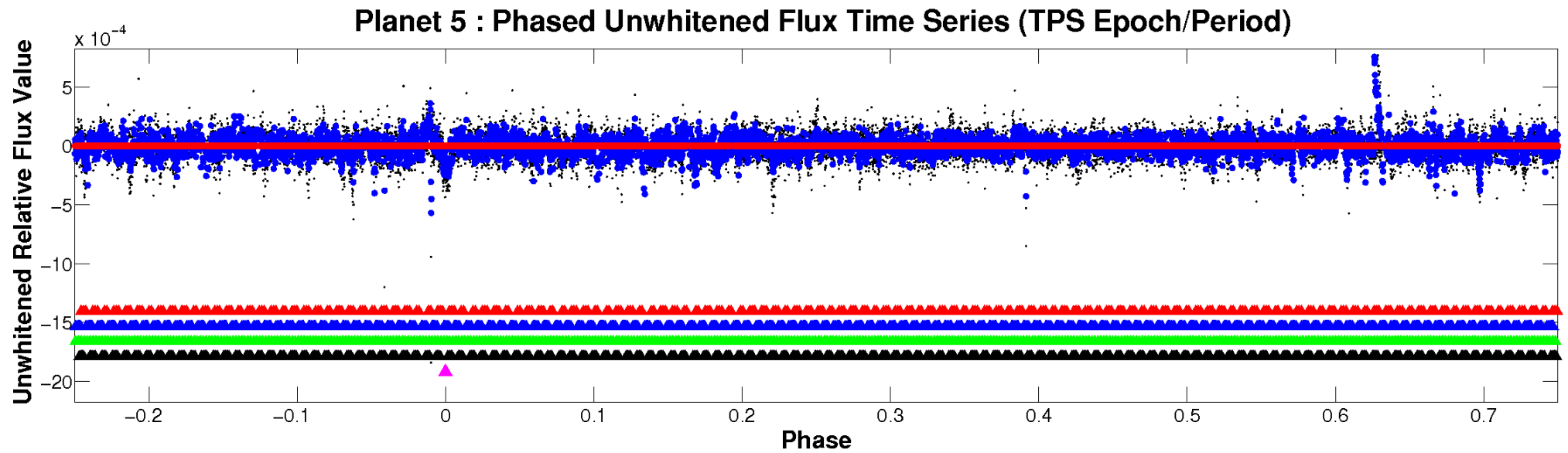


ALT Odd/Even

TCE 005774743-05

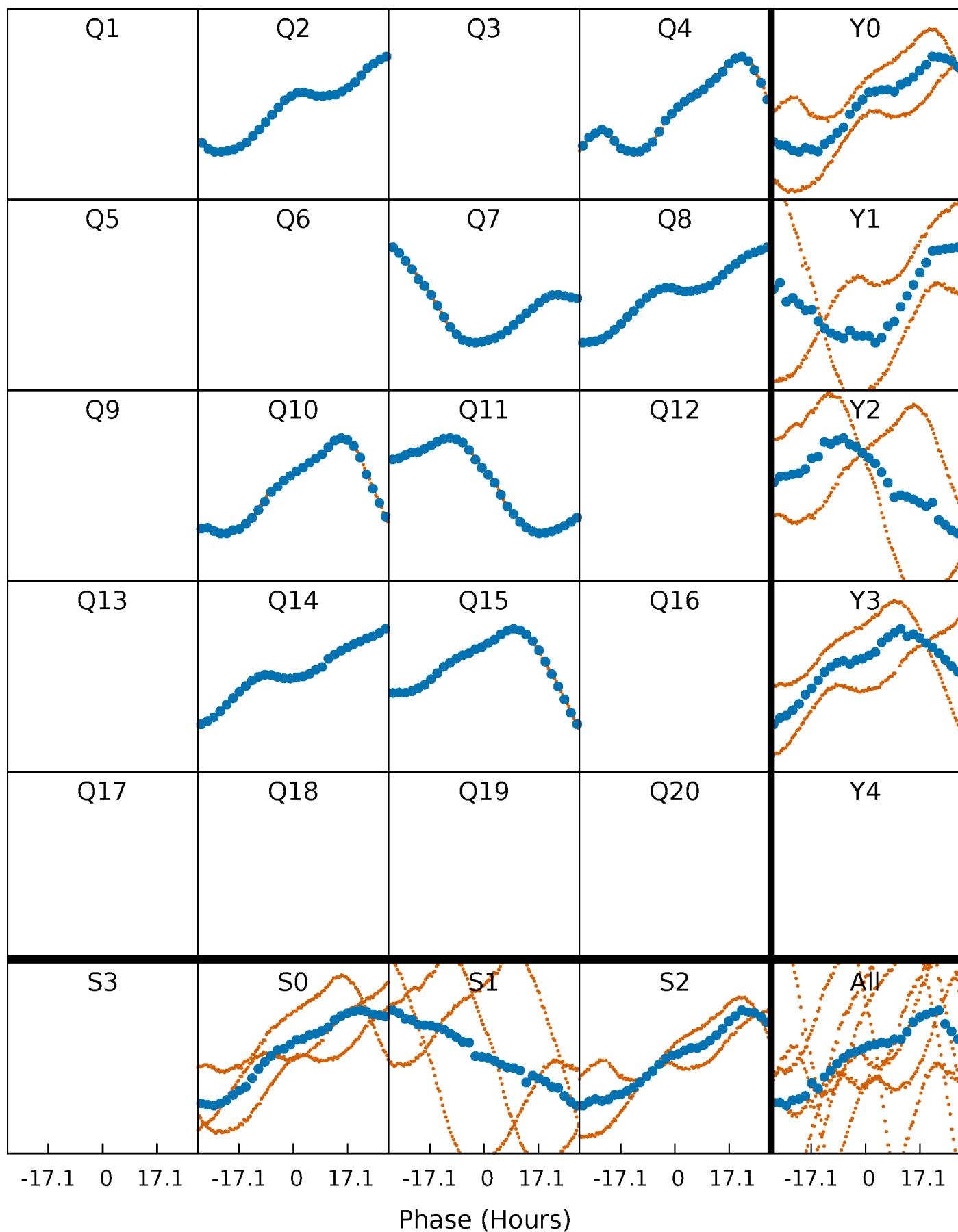


Non-Whitened Vs. Whitened Light Curve



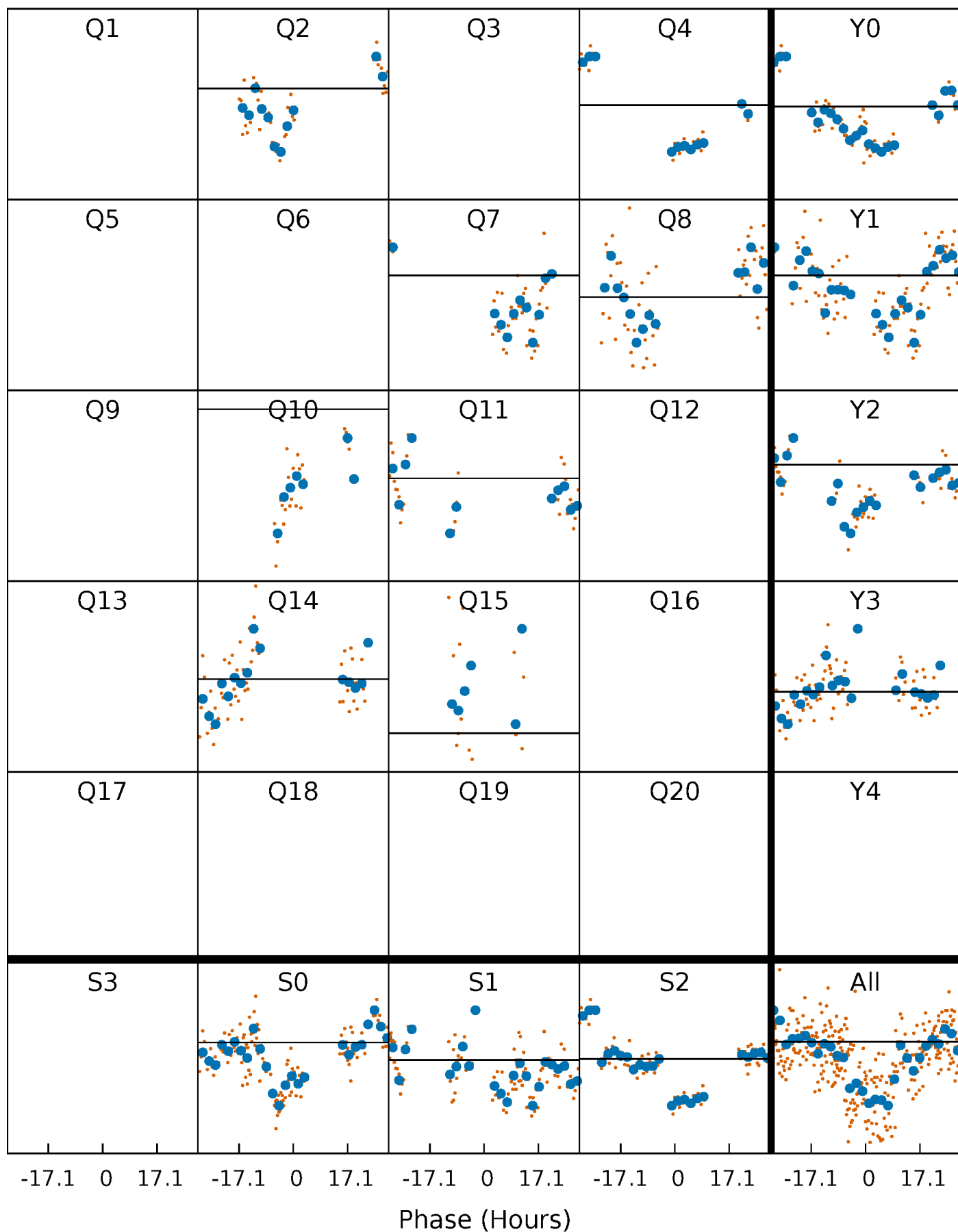
PDC Quarter-Phased Transit Curves

TCE 005774743-05 P=135.501747 Days $T_0=238.678205$ (BKJD)



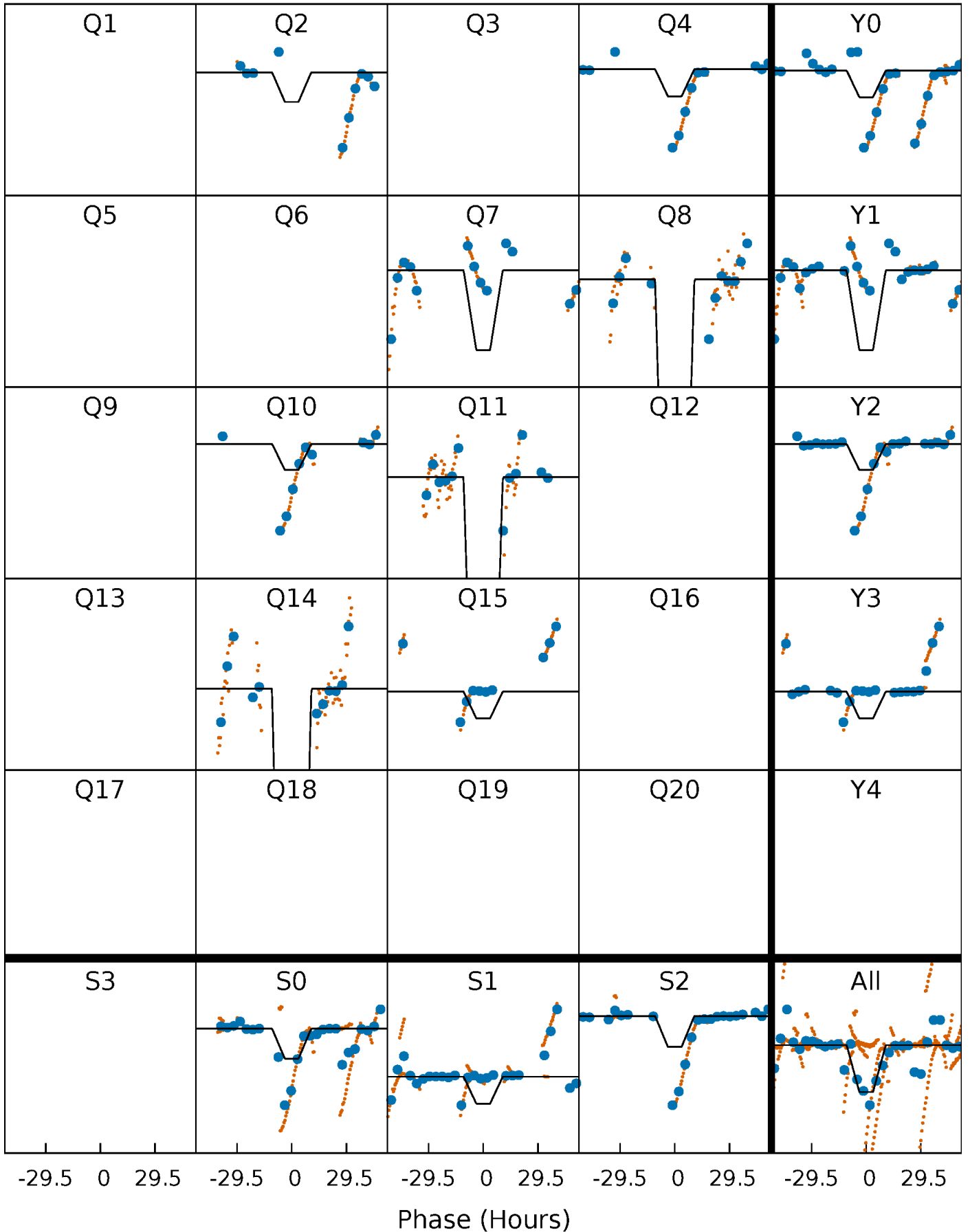
DV Quarter-Phased Transit Curves

TCE 005774743-05 $P=135.501747$ Days $T_0=238.678205$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

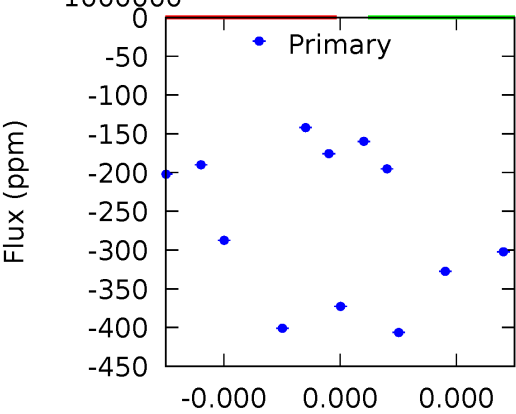
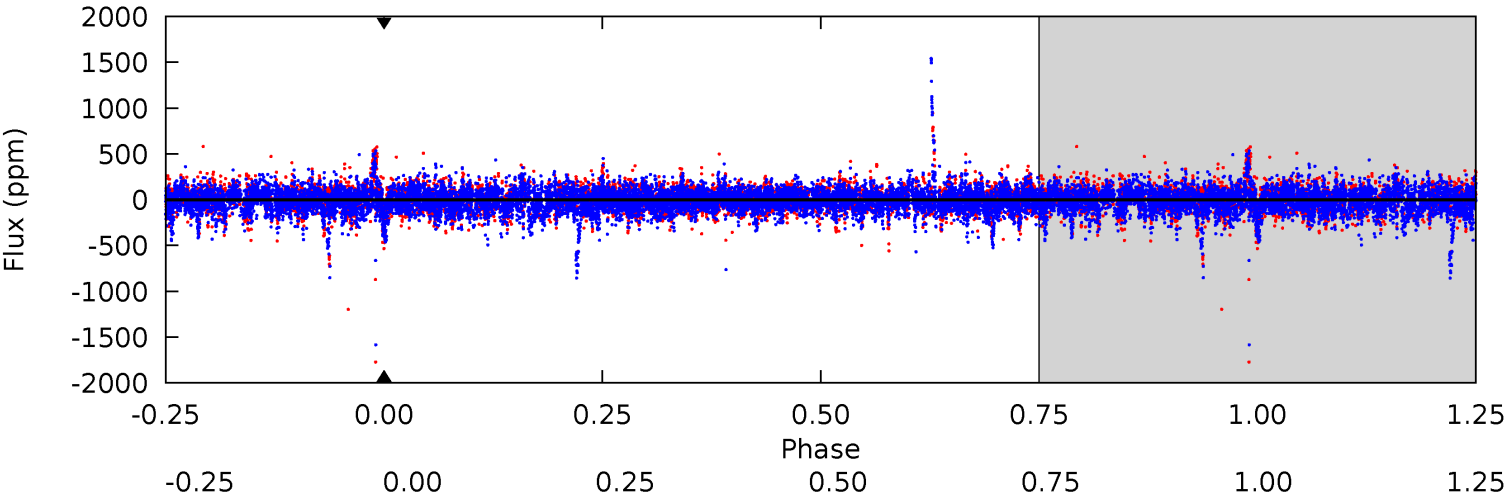
TCE 005774743-05 P=135.501747 Days $T_0=236.885399$ (BKJD)



DV Model-Shift Uniqueness Test

005774743-05, P = 135.501747 Days, E = 103.176458 Days

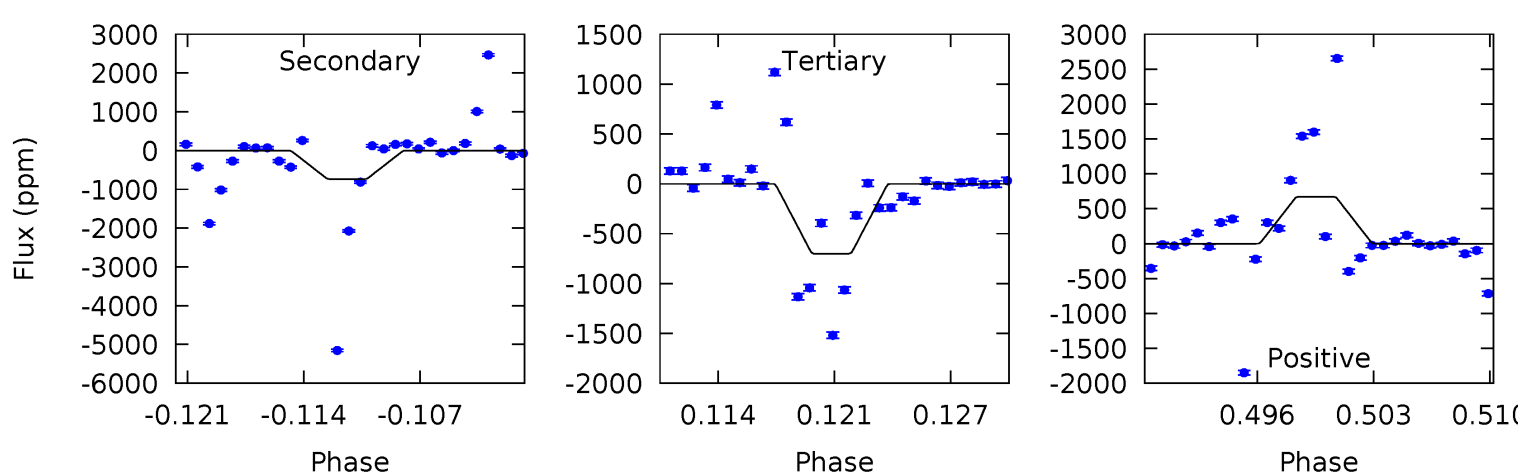
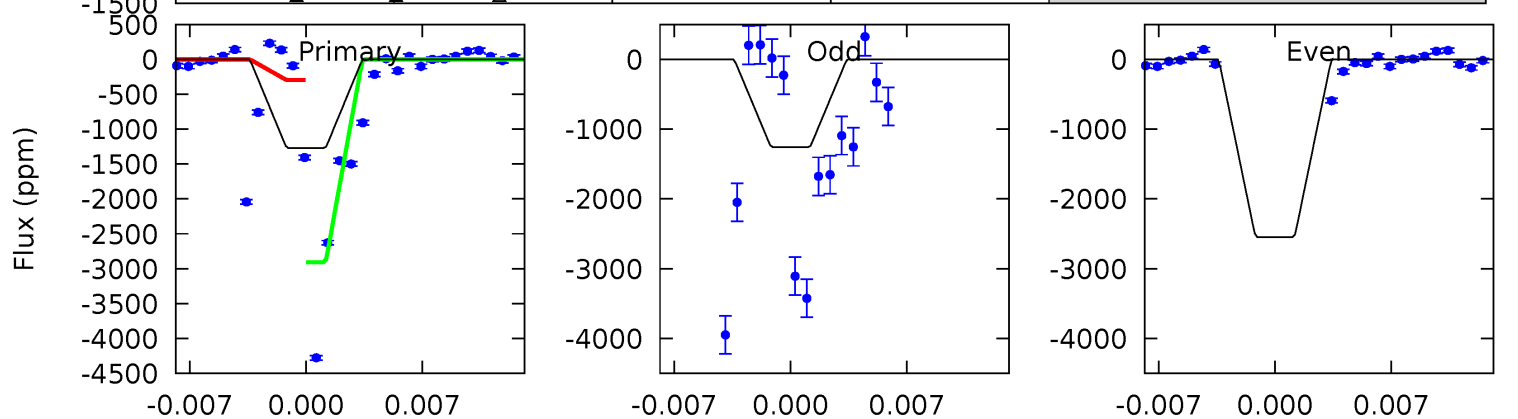
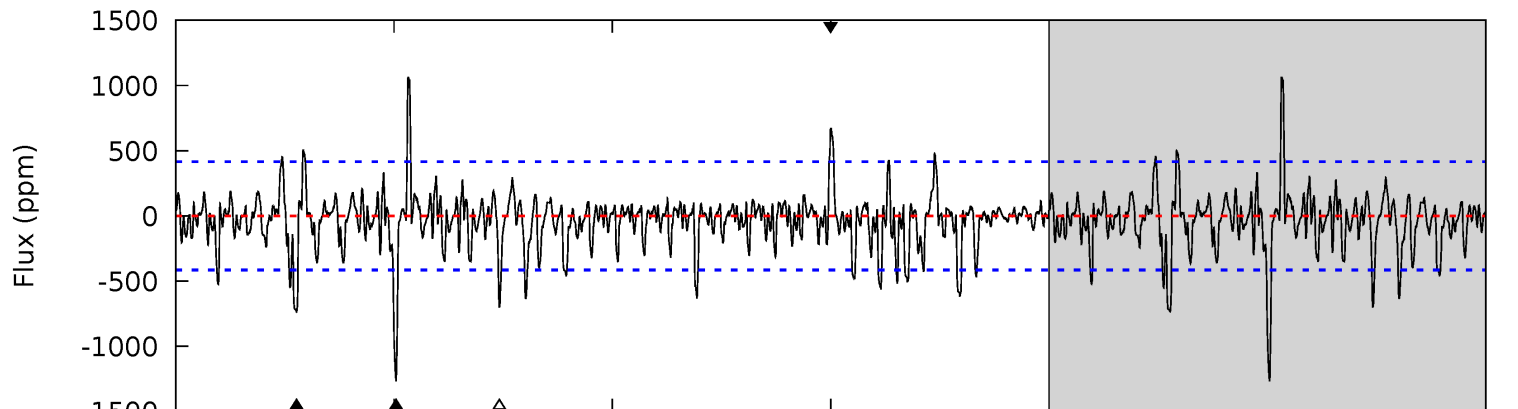
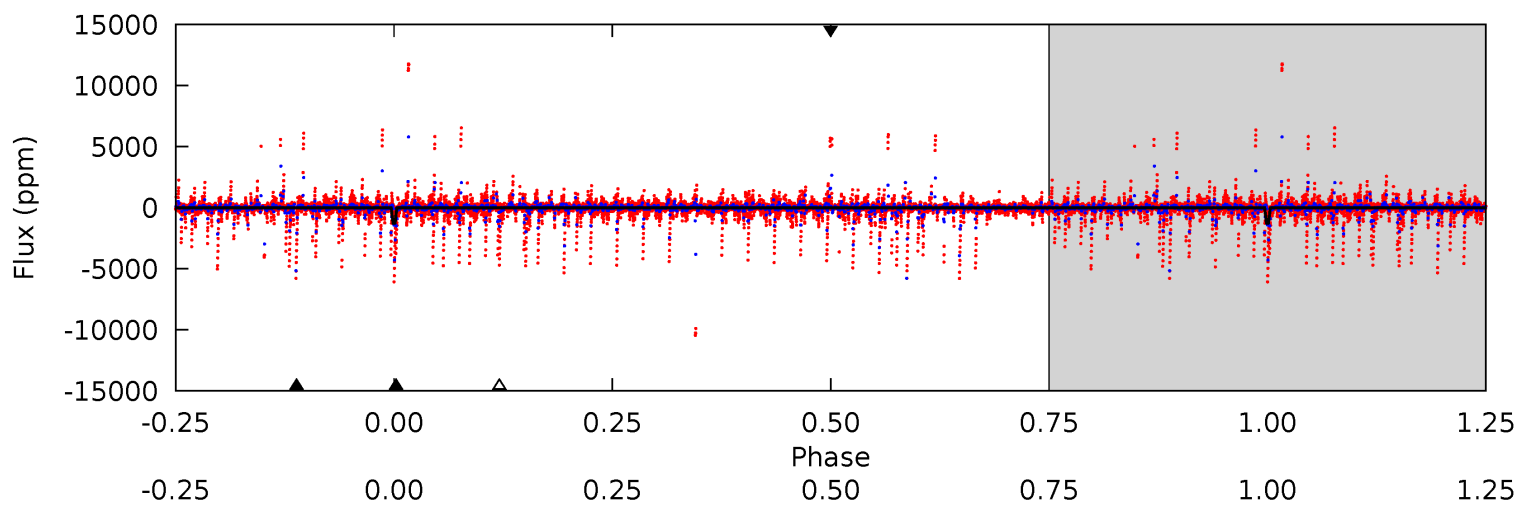
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005774743-05, P = 135.501747 Days, E = 101.383652 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.6	9.05	8.62	8.28	5.10	2.71	1.93	6.98	7.32	0.43	0.77	3.43	16.1	0.46	0



Stellar Parameters For KIC 005774743

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8203^{+228}_{-342}	$3.739^{+0.413}_{-0.110}$	$-0.080^{+0.250}_{-0.400}$	$3.206^{+0.828}_{-1.419}$	$2.054^{+0.330}_{-0.495}$	$0.088^{+0.345}_{-0.036}$
	+3%/-4%	+11%/-3%	+312%/-500%	+26%/-44%	+16%/-24%	+393%/-41%
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 005774743-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$21.68^{+26.11}_{-15.46}$	1074^{+84}_{-116}	-7834^{+62251}_{-37114}	$-1918.753^{+97974.906}_{-74244.043}$
Alt.	-736 ± 81	$30.72^{+28.18}_{-20.00}$	1080^{+87}_{-116}	4408^{+2793}_{-886}	187^{+1318}_{-137}

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

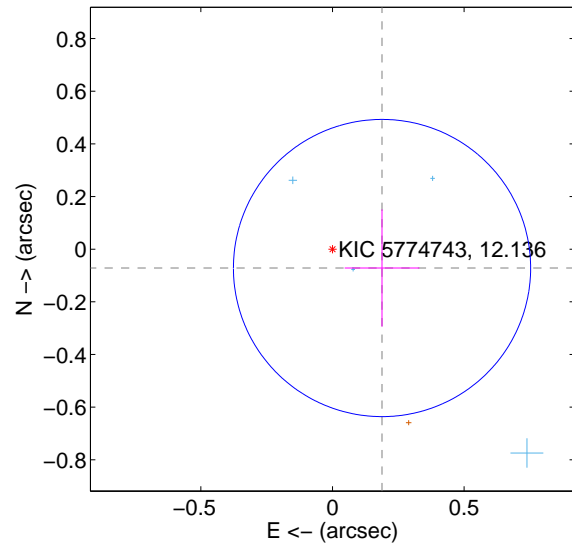
Supplemental centroid analysis for 005774743-05. Kepler magnitude: 12.14. Transit SNR -1.00

There are 4 quarters with good PRF difference image offsets

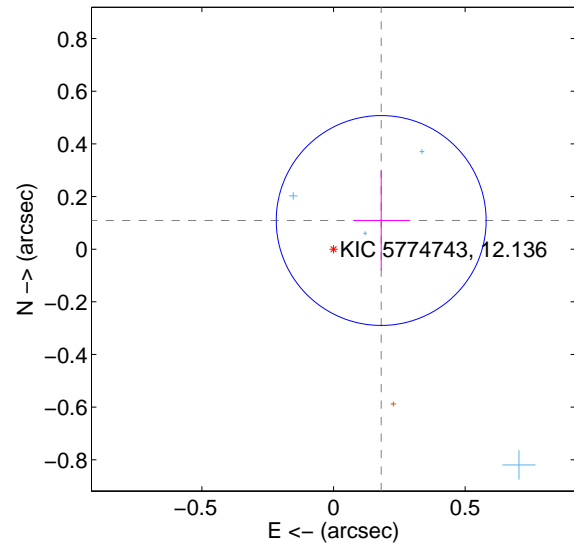
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.201 ± 0.188	1.07	-0.188 ± 0.142	-0.072 ± 0.223
PRF-fit source offset from KIC position	0.211 ± 0.133	1.59	-0.181 ± 0.105	0.109 ± 0.189
photometric centroid source offset	0.10 ± 0.08	1.28	0.00 ± 0.11	-0.10 ± 0.08

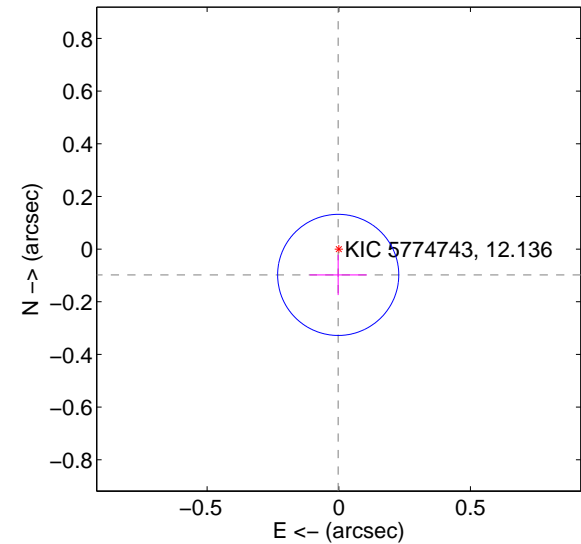
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

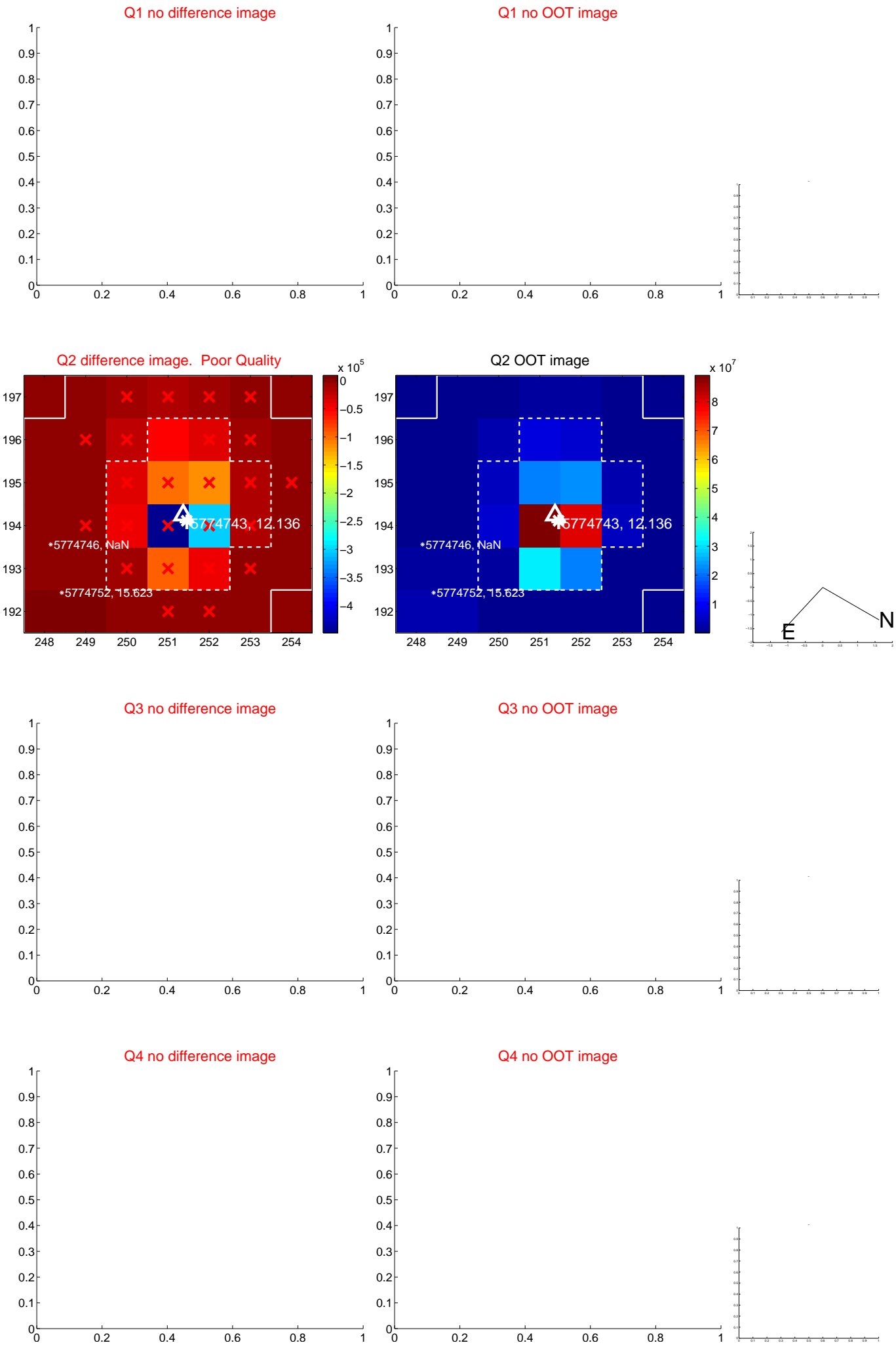


offset from photometric centroids

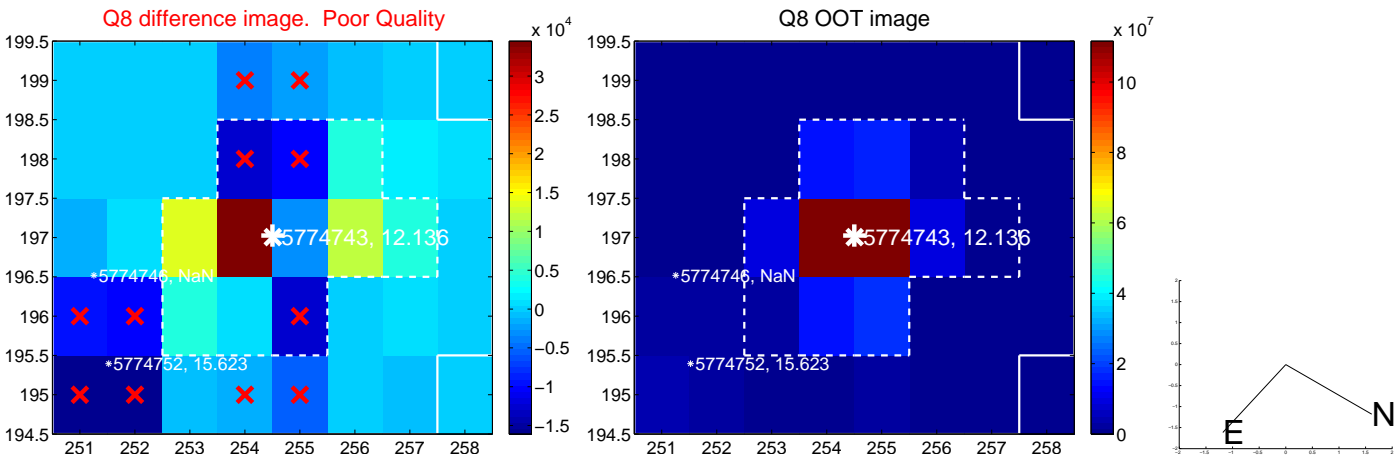


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

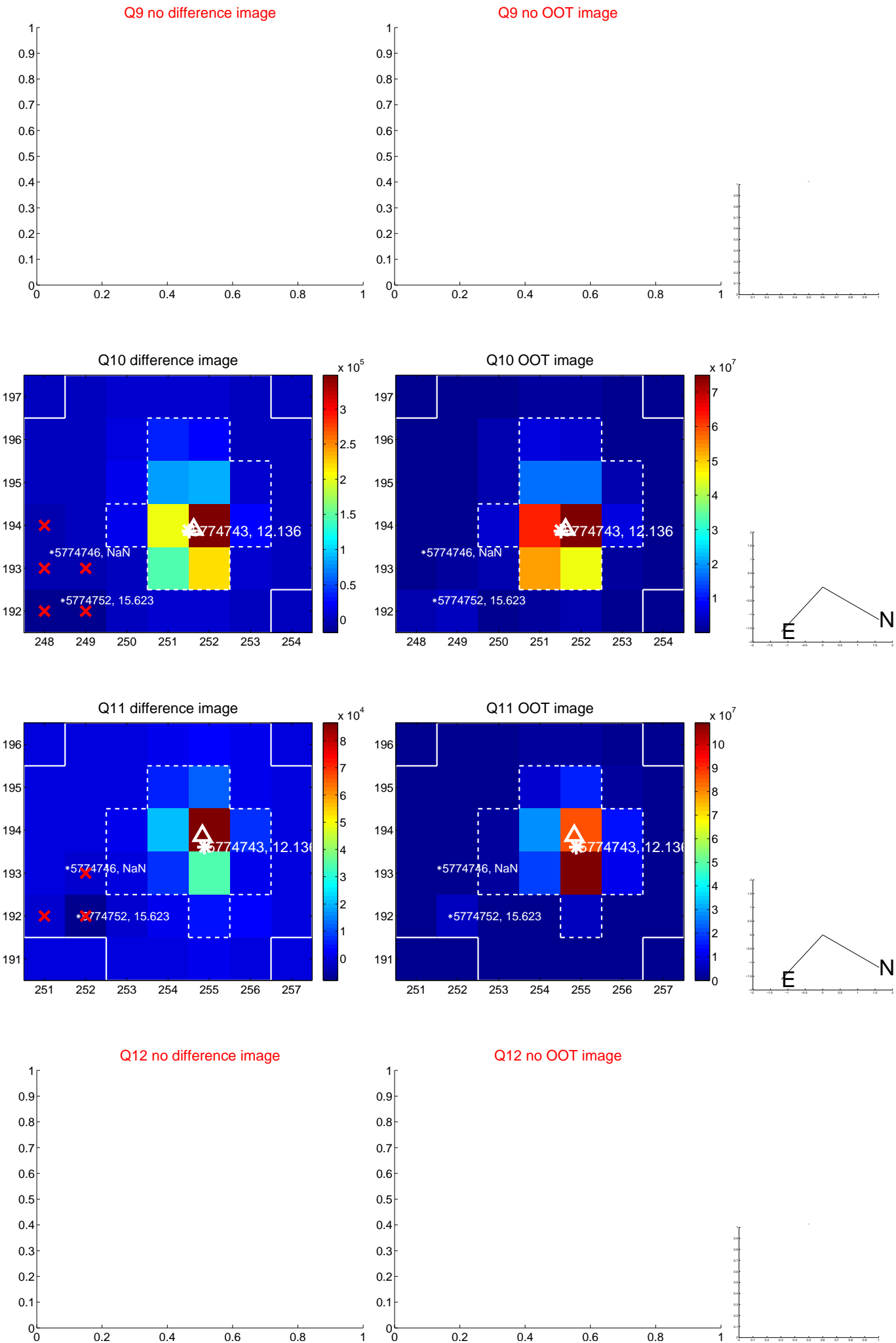
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



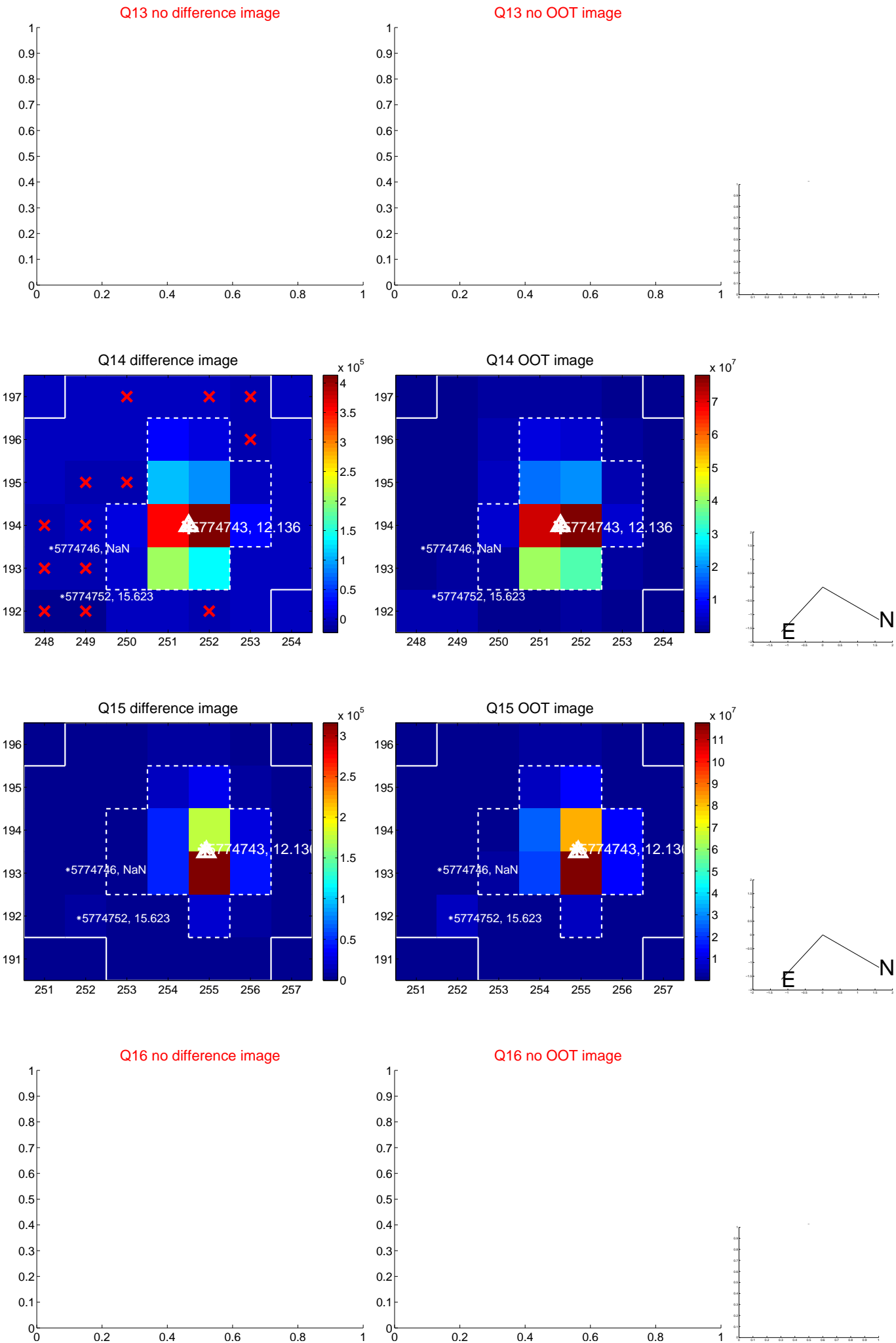
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



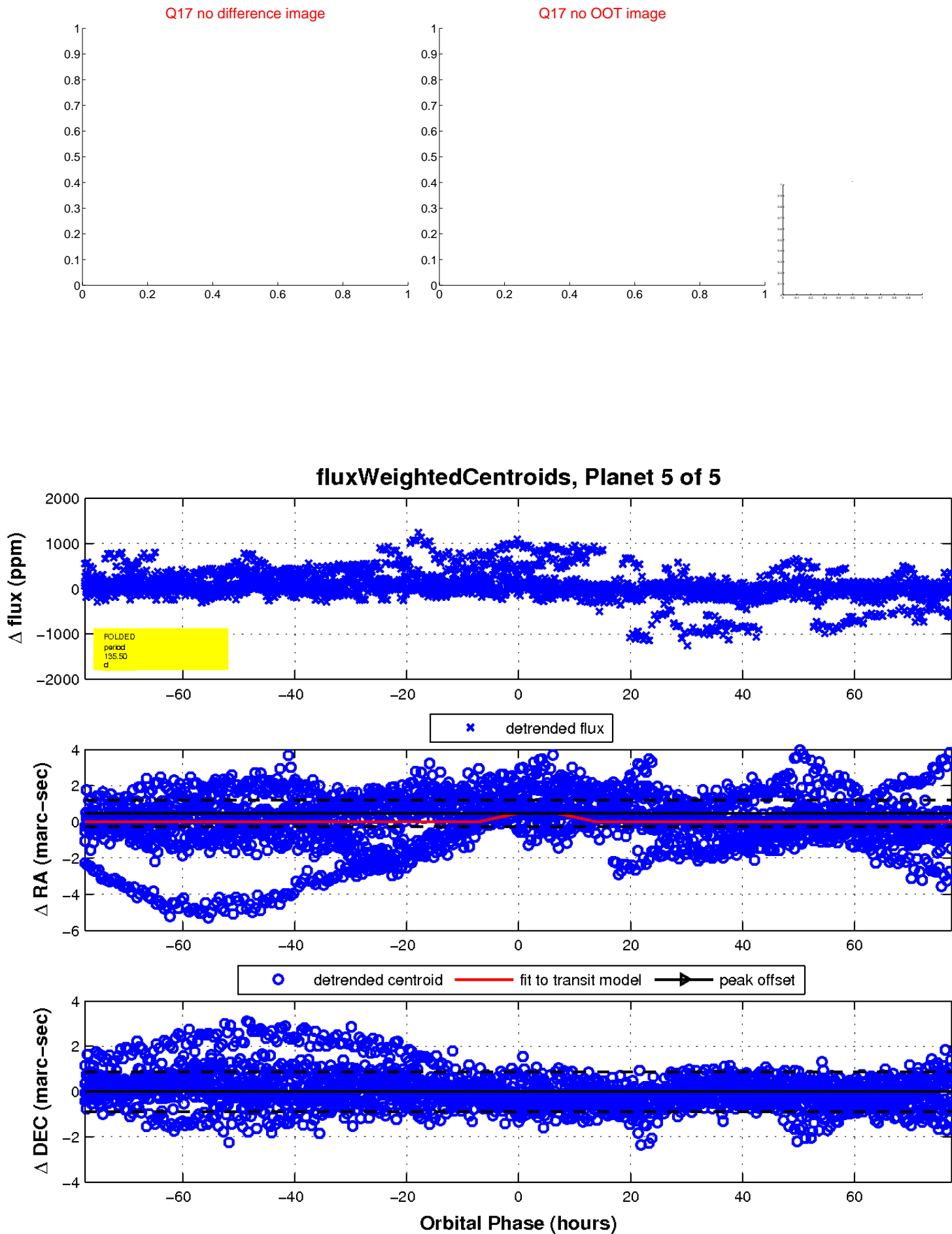
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

