

KIC 003439831

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})
003439831-01	OBS	No	0.622497	131.672846	34.1	1.442	13.3	7.6	1.31	5959	0.90	11215.05
003439831-02	OBS	No	0.622121	132.078823	27.5	3.220	10.5	3.8	1.31	5959	0.70	11224.09
003439831-03	OBS	No	75.437751	191.667258	432.5	2.500	15.6	-1.0	1.31	5959	2.74	18.70

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003439831-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—HALO_GHOST
003439831-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
003439831-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS

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

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

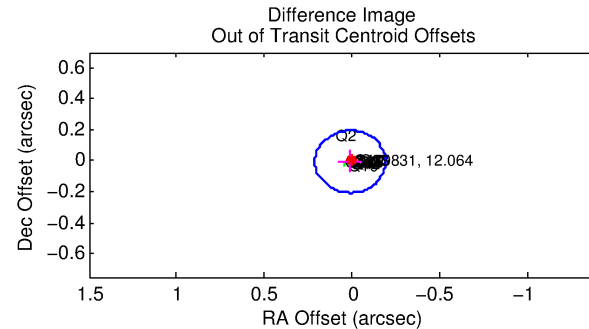
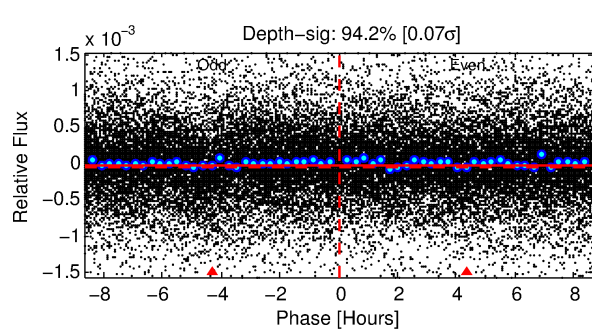
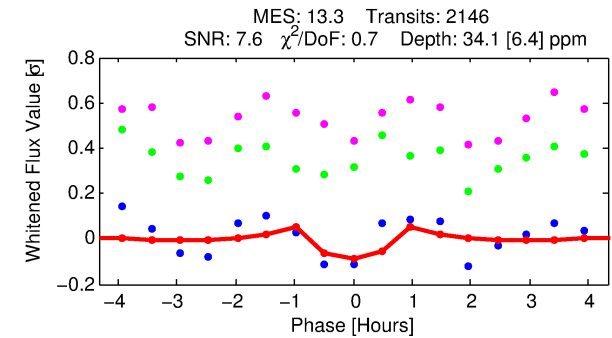
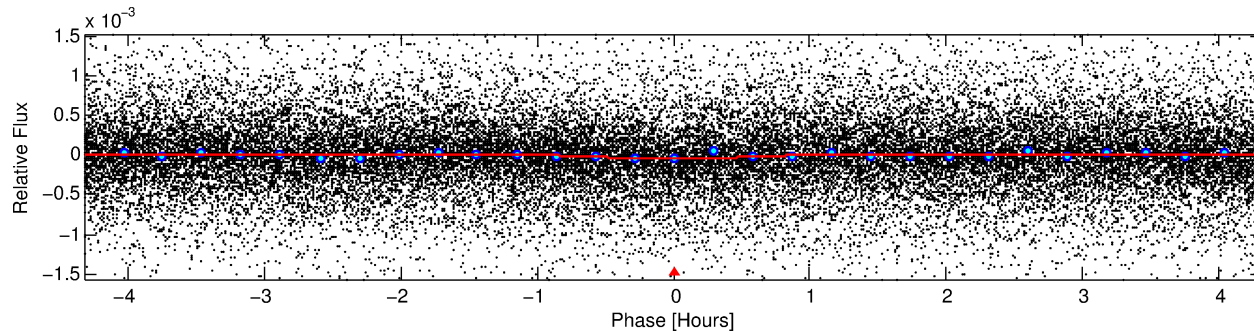
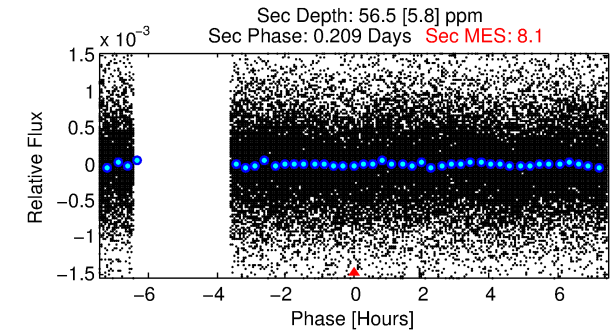
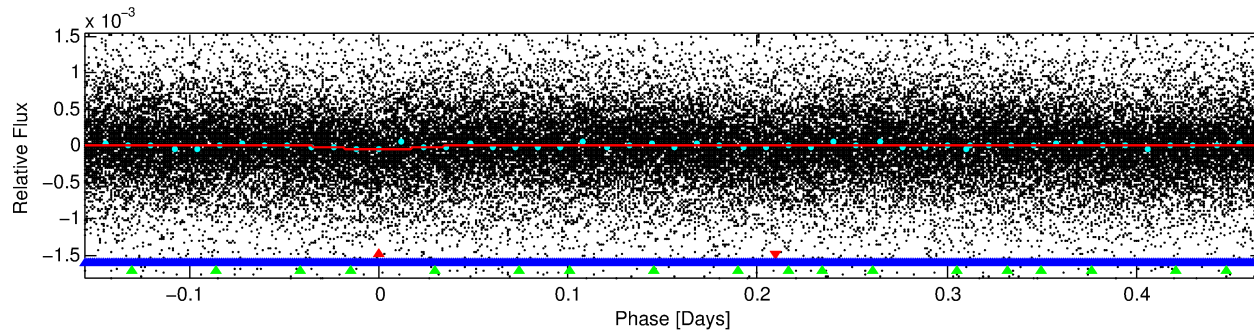
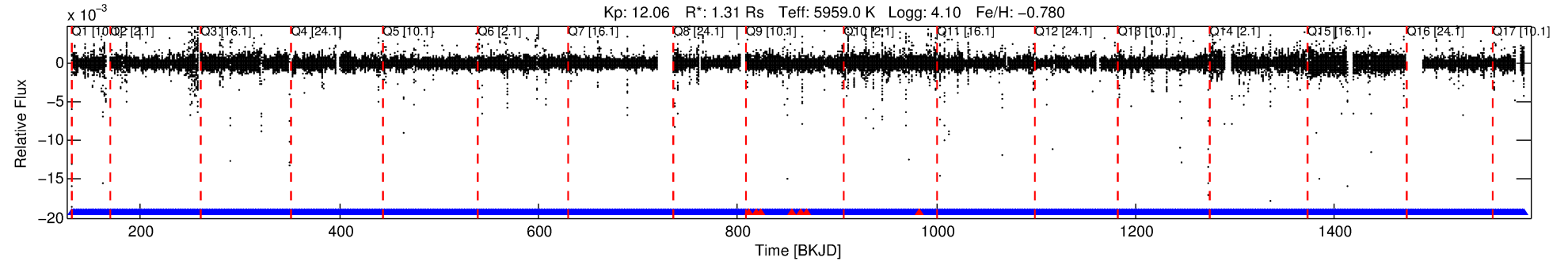
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003439831-01

No Significant Match Found

DV One-Page Summary

KIC: 3439831 Candidate: 1 of 3 Period: 0.622 d



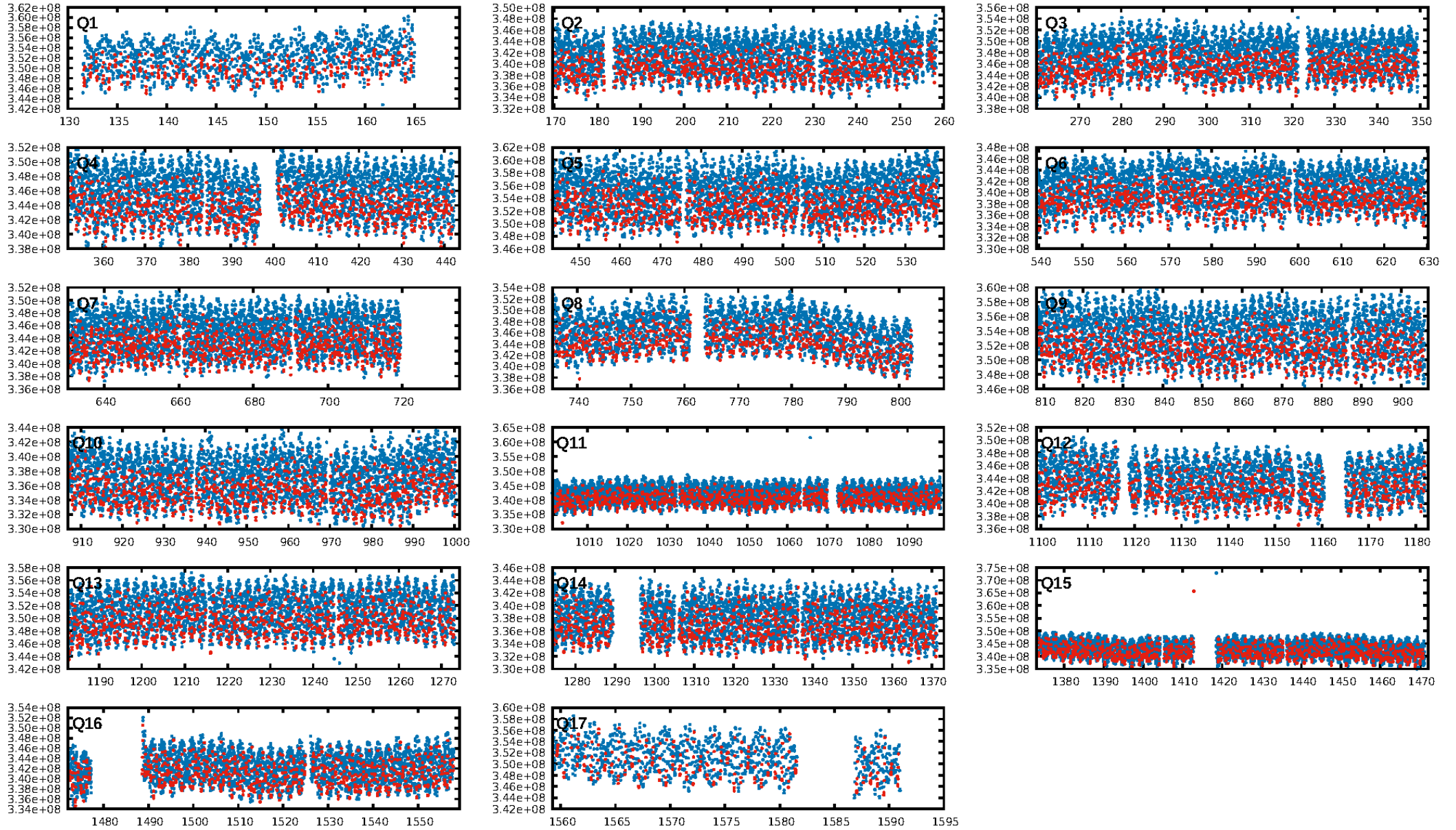
DV Fit Results:

Period = 0.62250 [0.00001] d
Epoch = 131.6728 [0.0016] BKJD
Rp/R* = 0.0063 [0.0016]
a/R* = 1.75 [1.55]
b = 0.90 [0.28]
Seff = 11215.05 [8447.66]
Teq = 2624 [494] K
Rp = 0.90 [0.42] Re
a = 0.0132 [0.0057] AU
Ag = 6.63 [6.02] [0.93σ]
Teffp = 6510 [863] K [3.91σ]

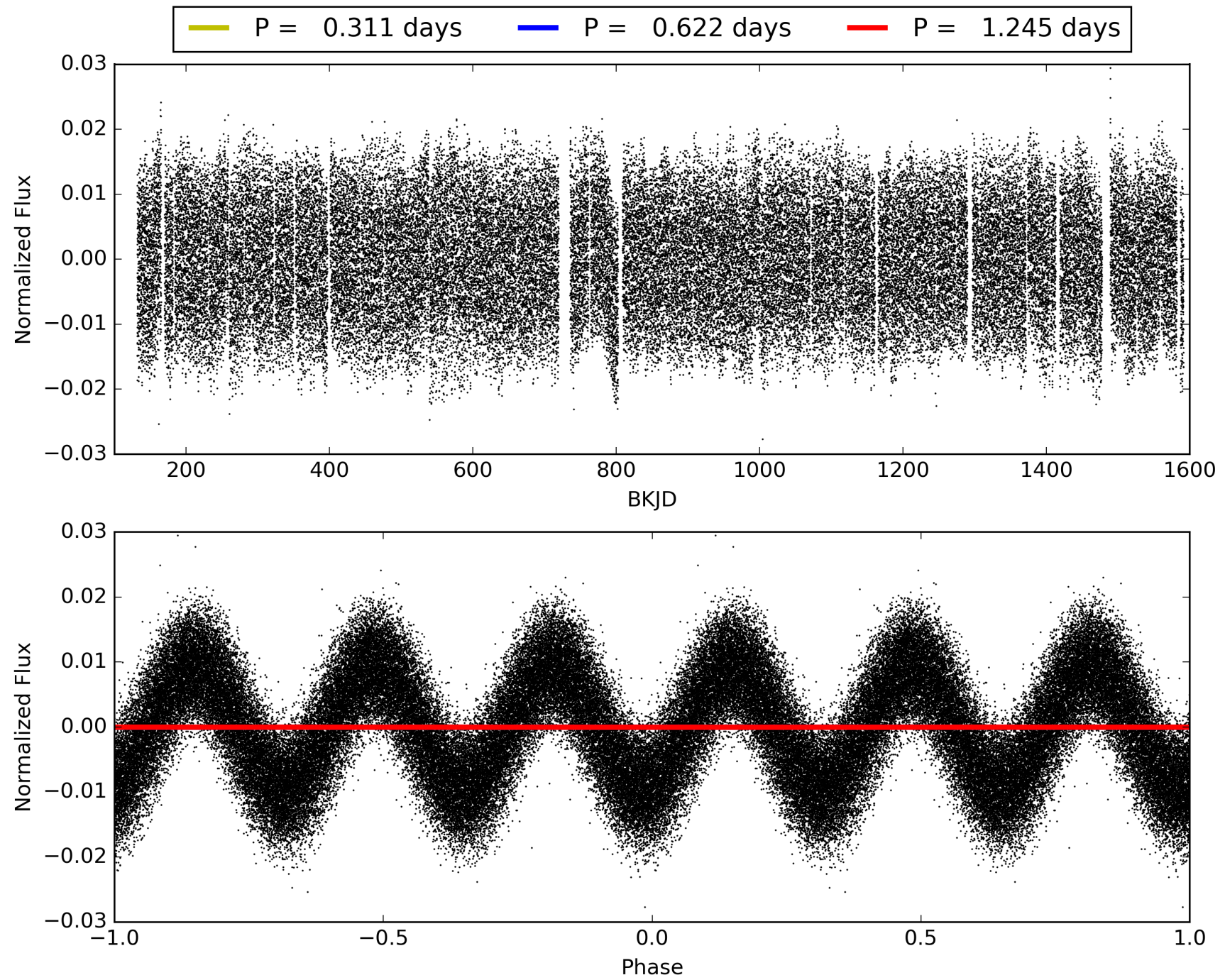
DV Diagnostic Results:

ShortPeriod-sig: 0.2% [0.00σ]
LongPeriod-sig: 100.0% [622.18σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2042/2049]
GhostDiagnostic-chr: 0.2058
Centroid-sig: 1.8%
Centroid-so: 0.910 arcsec [1.75σ]
OotOffset-rm: 0.013 arcsec [0.20σ]
KicOffset-rm: 0.087 arcsec [1.25σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.18 [3/17]

TCE 003439831-01, PDC Light Curves

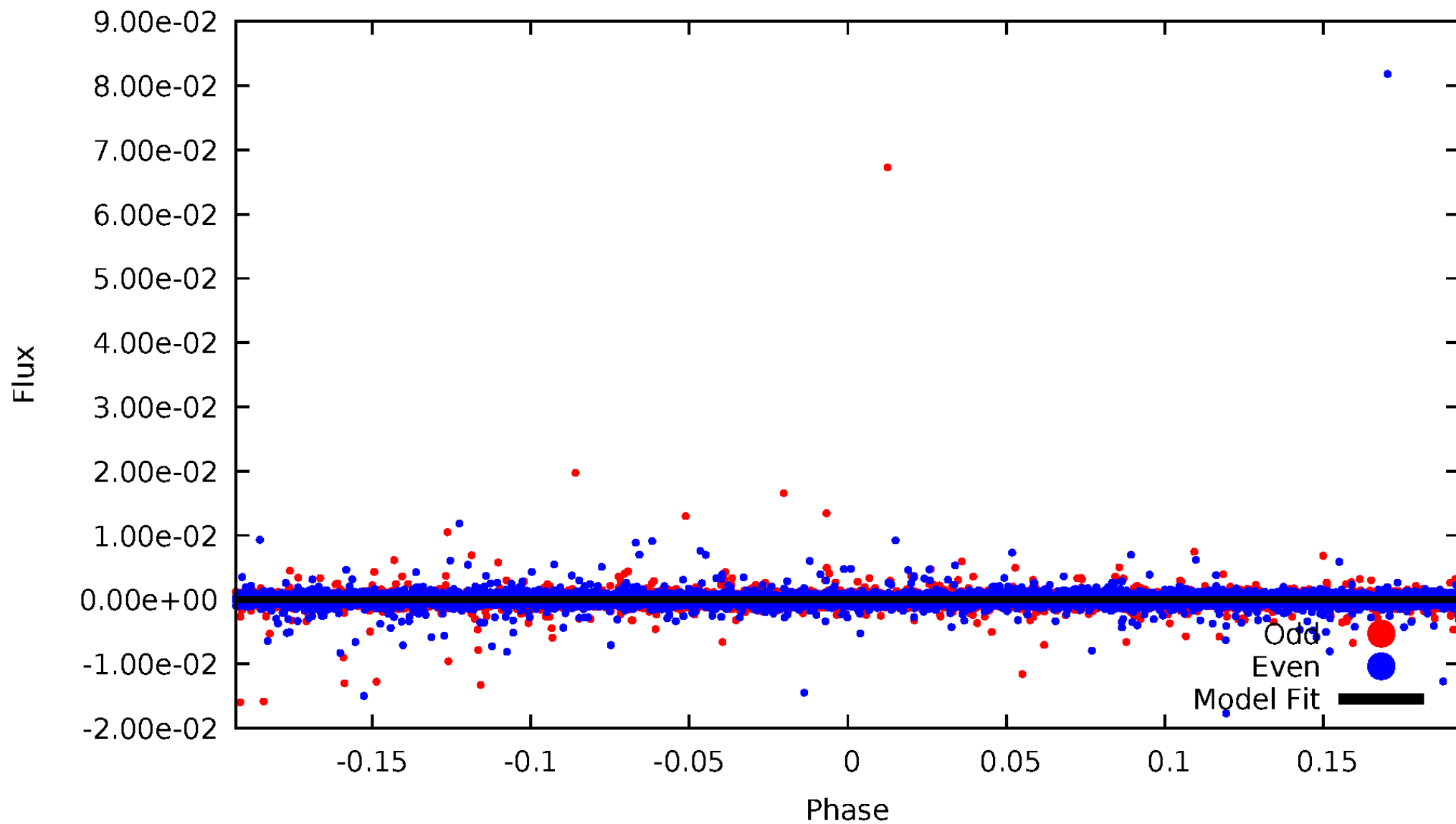


TCE 003439831-01



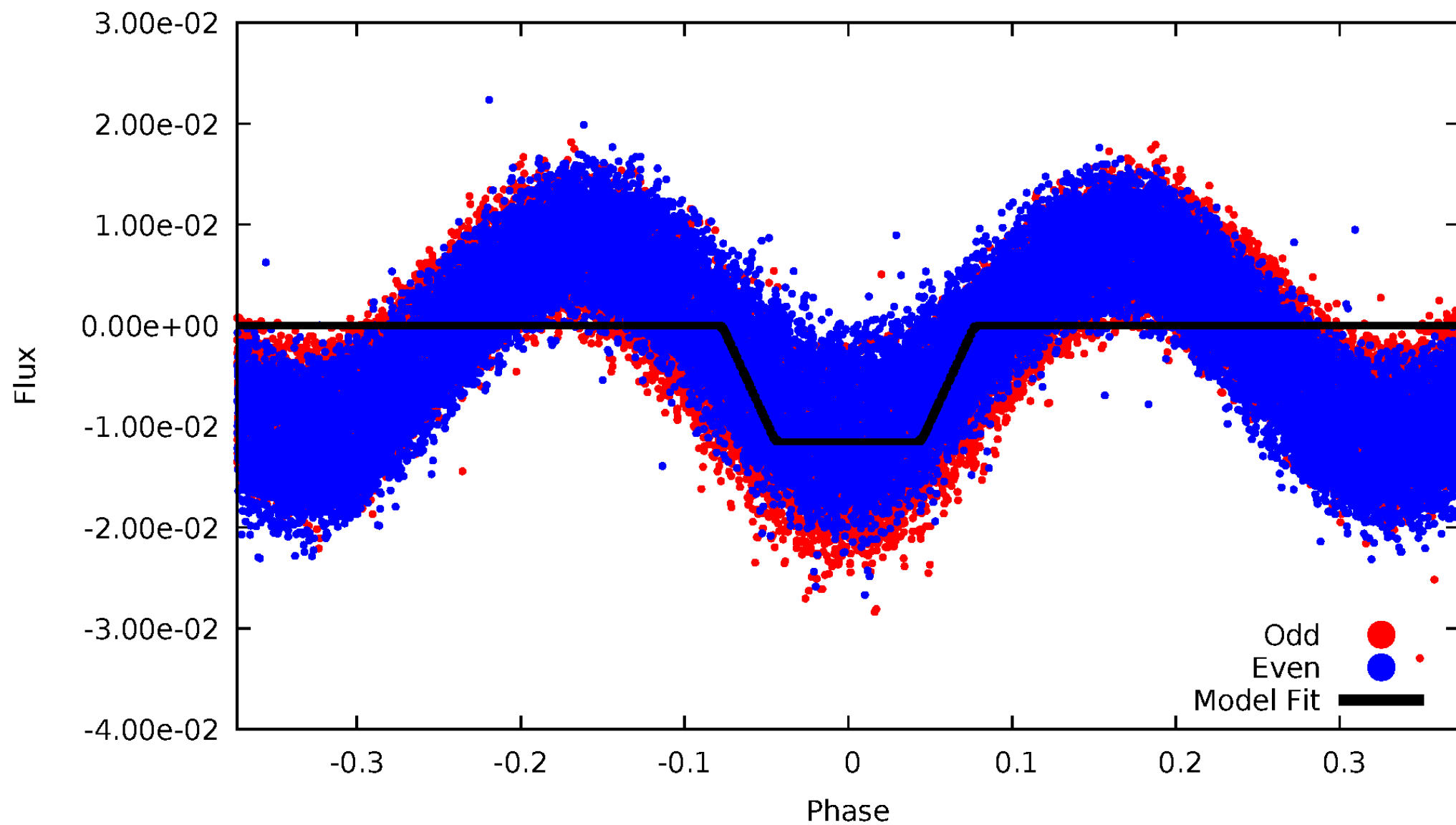
DV Odd/Even

TCE 003439831-01



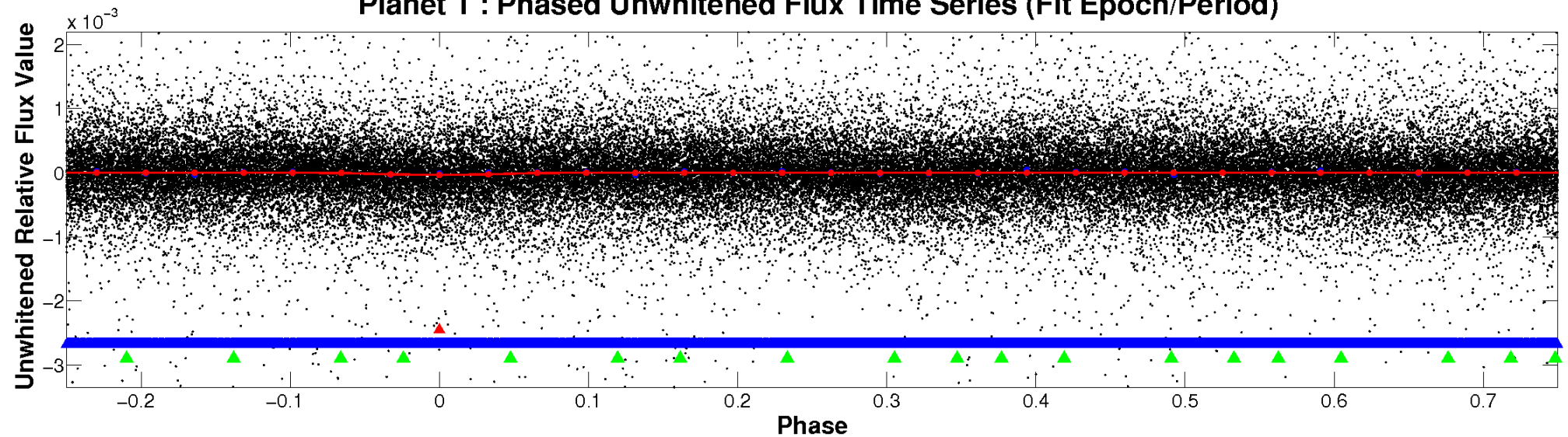
ALT Odd/Even

TCE 003439831-01

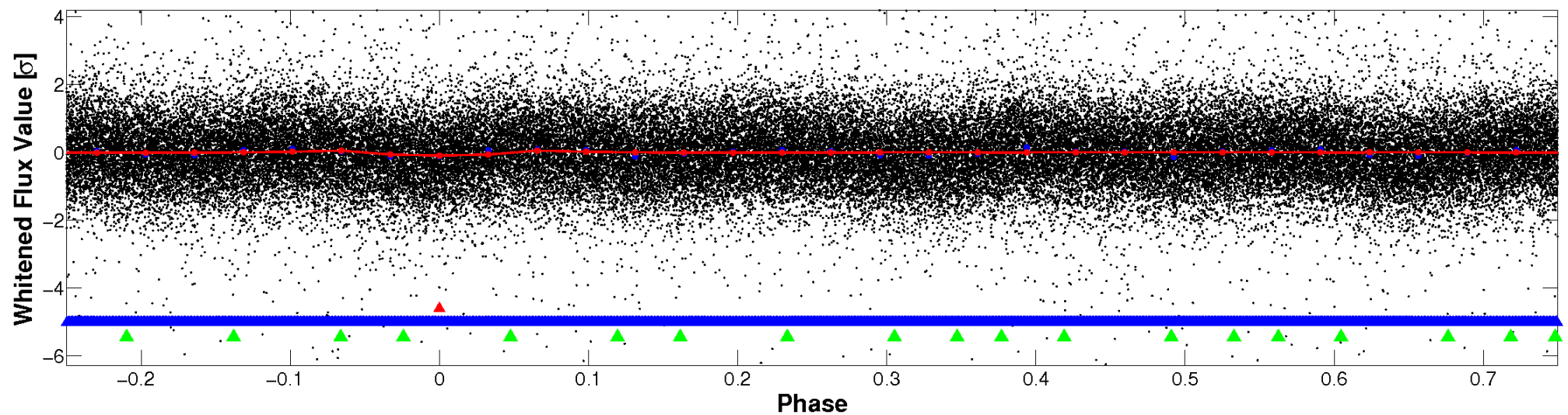


Non-Whitened Vs. Whitened Light Curve

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

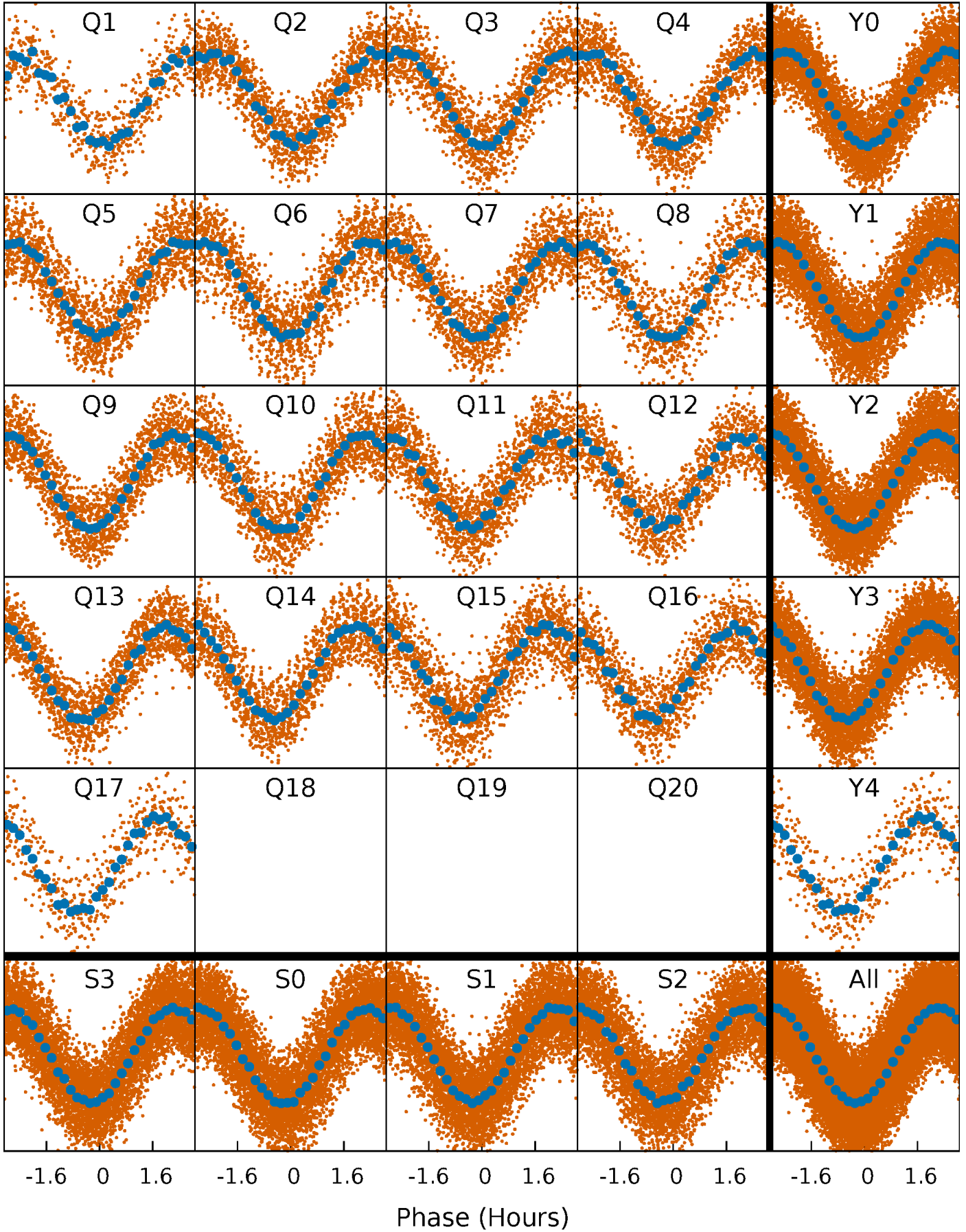


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



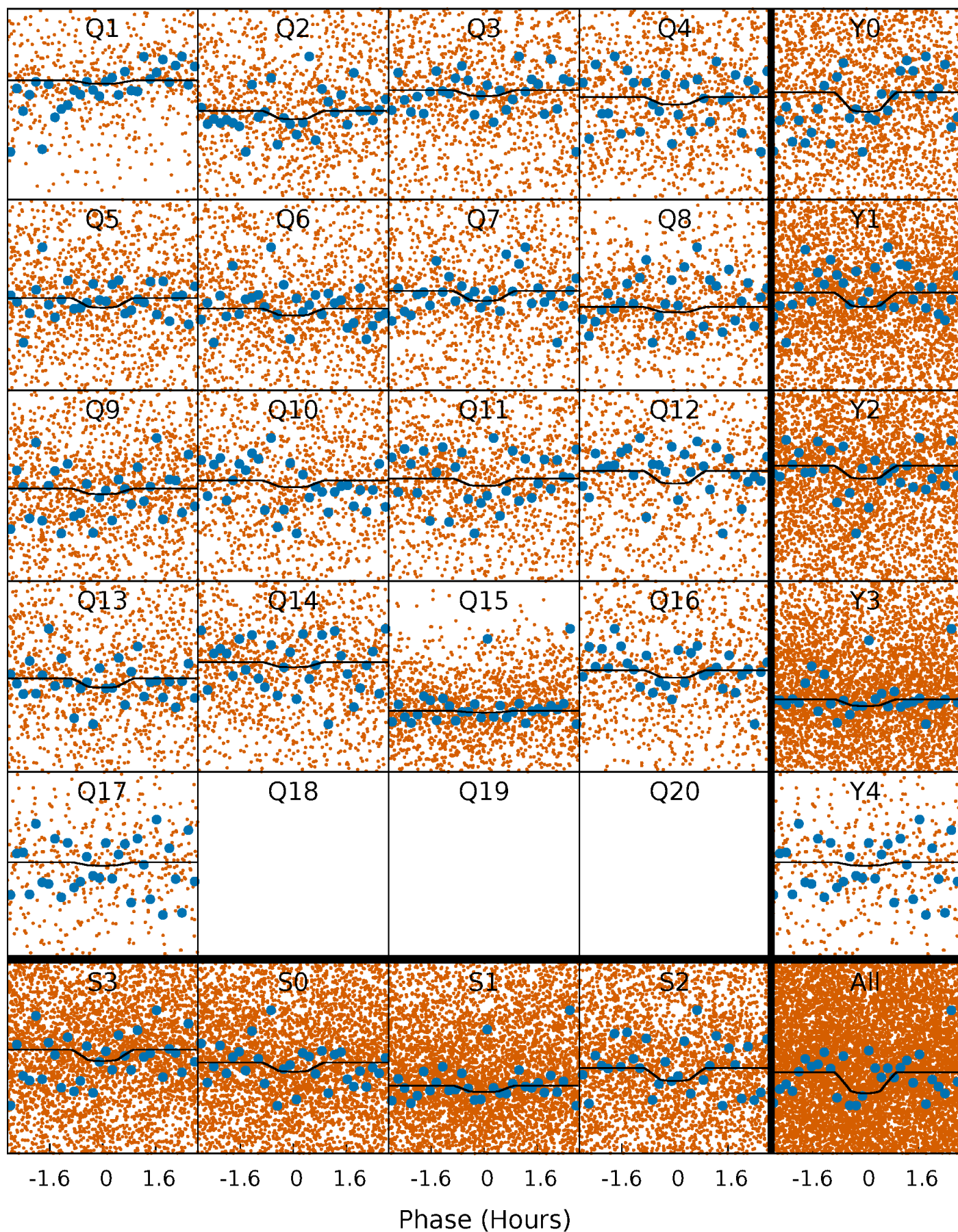
PDC Quarter-Phased Transit Curves

TCE 003439831-01 P= 0.622497 Days $T_0=131.672846$ (BKJD)



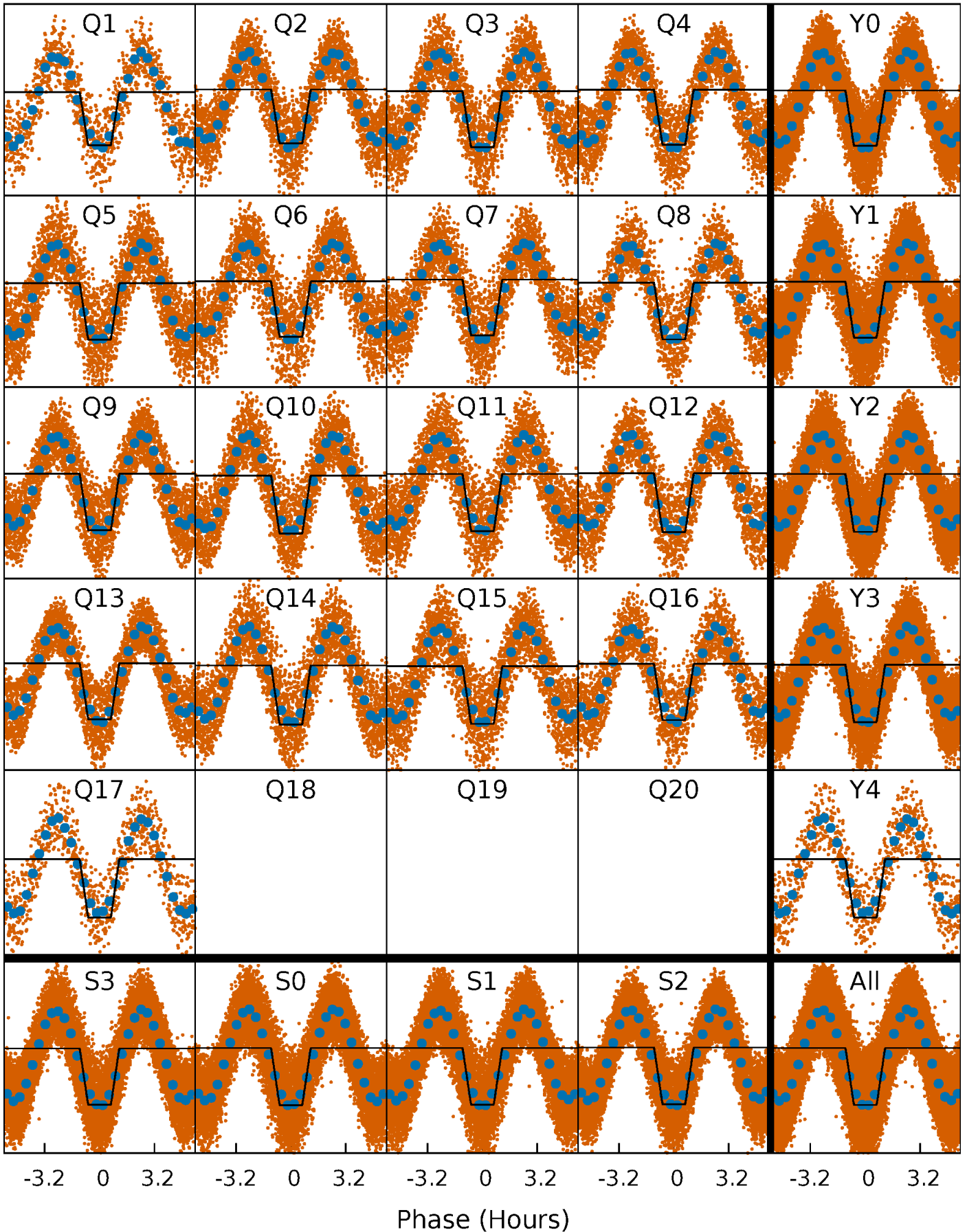
DV Quarter-Phased Transit Curves

TCE 003439831-01 P= 0.622497 Days $T_0=131.672846$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

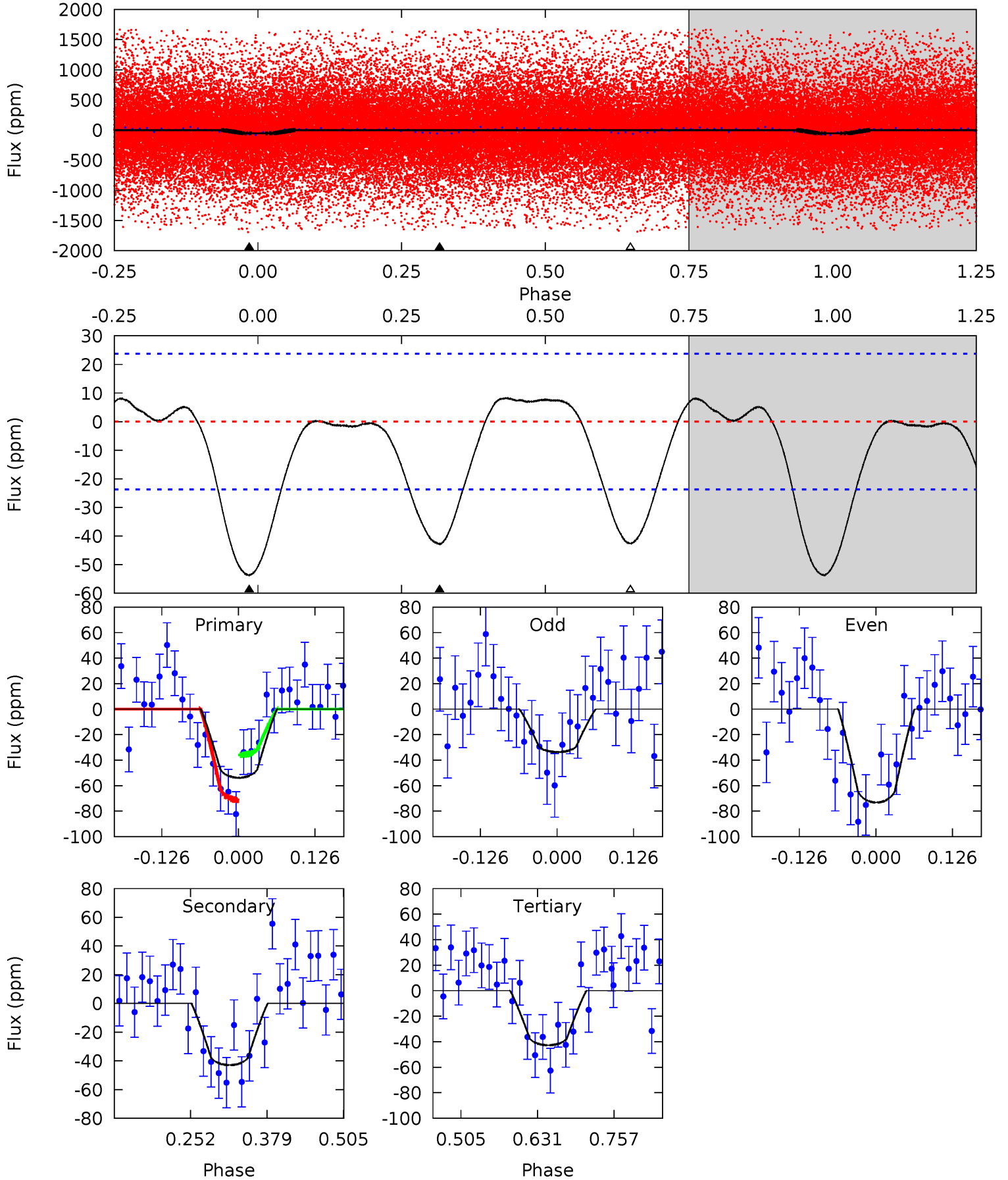
TCE 003439831-01 P= 0.622482 Days $T_0=131.679753$ (BKJD)



DV Model-Shift Uniqueness Test

003439831-01, P = 0.622497 Days, E = 131.050349 Days

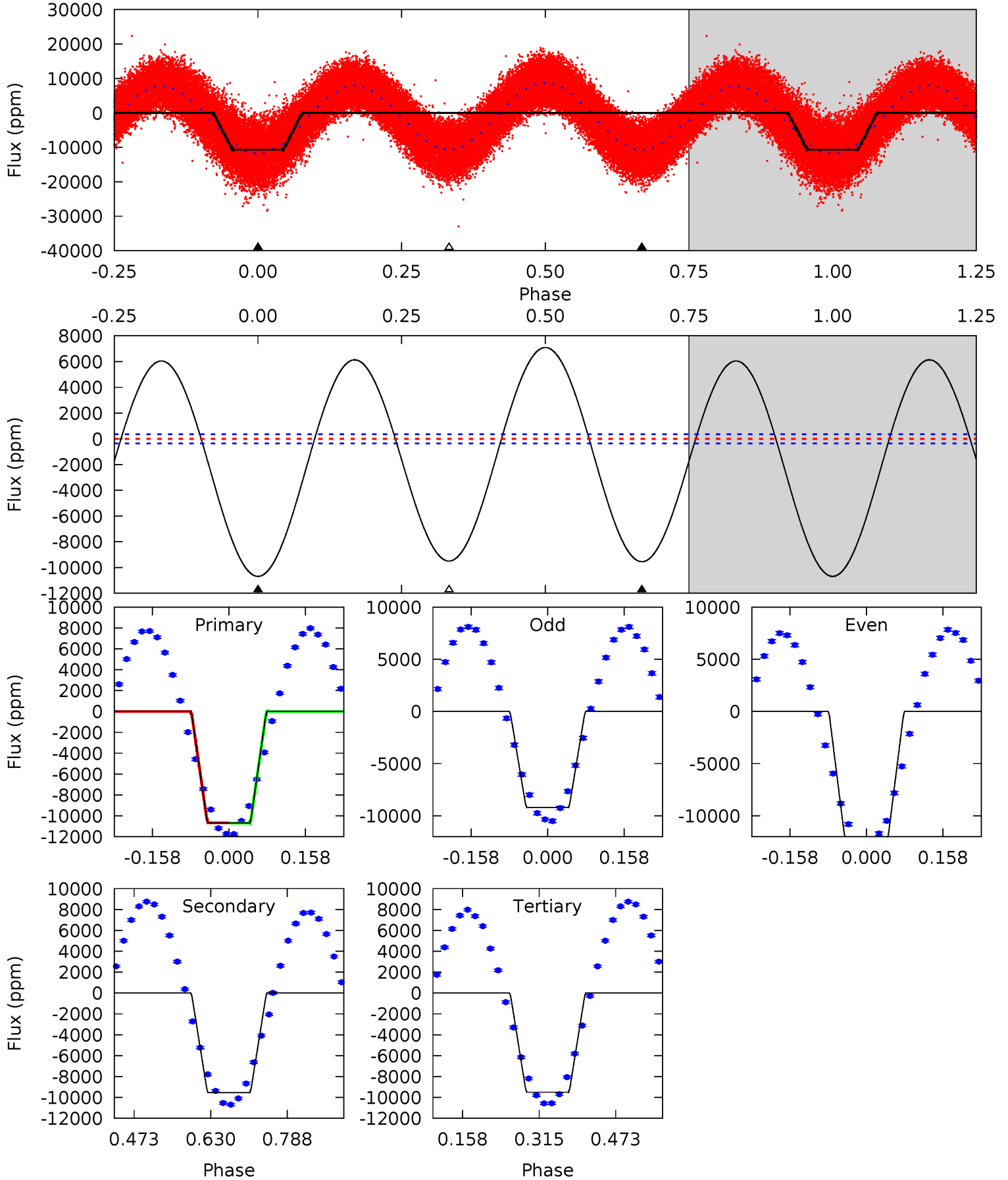
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.2	8.18	8.14	0	4.52	1.53	2.99	2.11	10.2	0.04	8.18	3.80	0.33	0.14	3.39



Alt Model-Shift Uniqueness Test

003439831-01, P = 0.622482 Days, E = 131.057271 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
132.9	118.8	118.1	0	4.47	1.41	73.3	14.8	132.9	0.62	118.8	20.0	0.98	0.40	0.26



Stellar Parameters For KIC 003439831

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	5959^{+160}_{-160}	$4.098^{+0.455}_{-0.195}$	$-0.780^{+0.300}_{-0.300}$	$1.314^{+0.421}_{-0.514}$	$0.789^{+0.092}_{-0.050}$	$0.490^{+1.717}_{-0.278}$
	+3%/-3%	+11%/-5%	+38%/-38%	+32%/-39%	+12%/-6%	+350%/-57%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 003439831-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-43 ± 5	$0.86^{+0.30}_{-0.26}$	3627^{+335}_{-418}	5954^{+1139}_{-666}	$5.586^{+6.321}_{-2.584}$
Alt.	-9548 ± 80	$15.18^{+2.82}_{-3.21}$	3626^{+341}_{-419}	5606^{+155}_{-151}	$4.064^{+2.465}_{-1.117}$

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

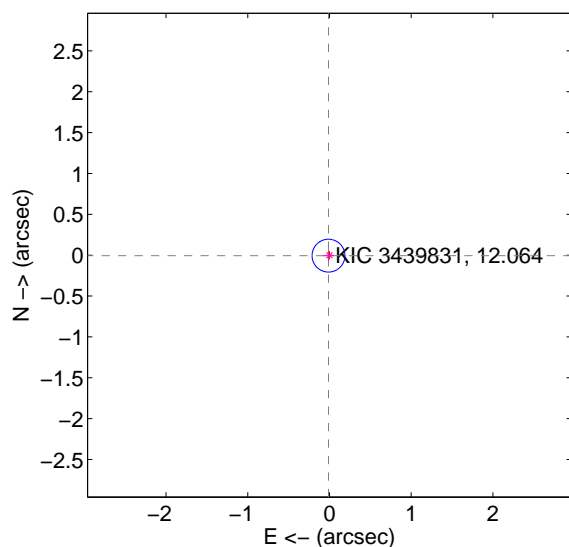
Supplemental centroid analysis for 003439831-01. Kepler magnitude: 12.06. Transit SNR 7.58

There are 17 quarters with good PRF difference image offsets

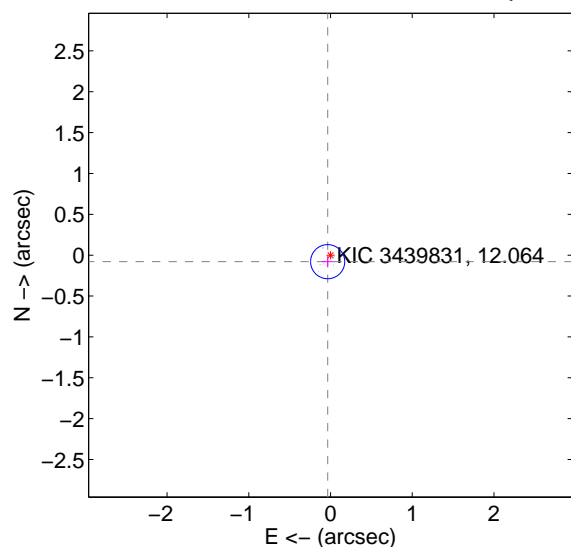
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.013 ± 0.067	0.20	0.012 ± 0.067	-0.006 ± 0.067
PRF-fit source offset from KIC position	0.087 ± 0.070	1.25	0.035 ± 0.069	-0.080 ± 0.069
photometric centroid source offset	0.91 ± 0.52	1.75	0.17 ± 0.43	-0.89 ± 0.52

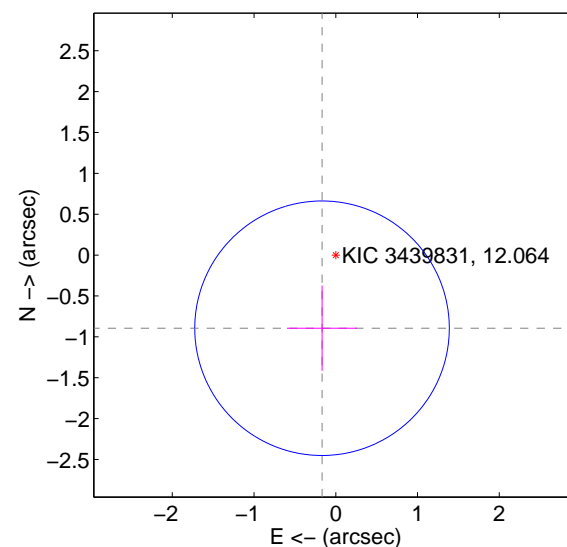
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

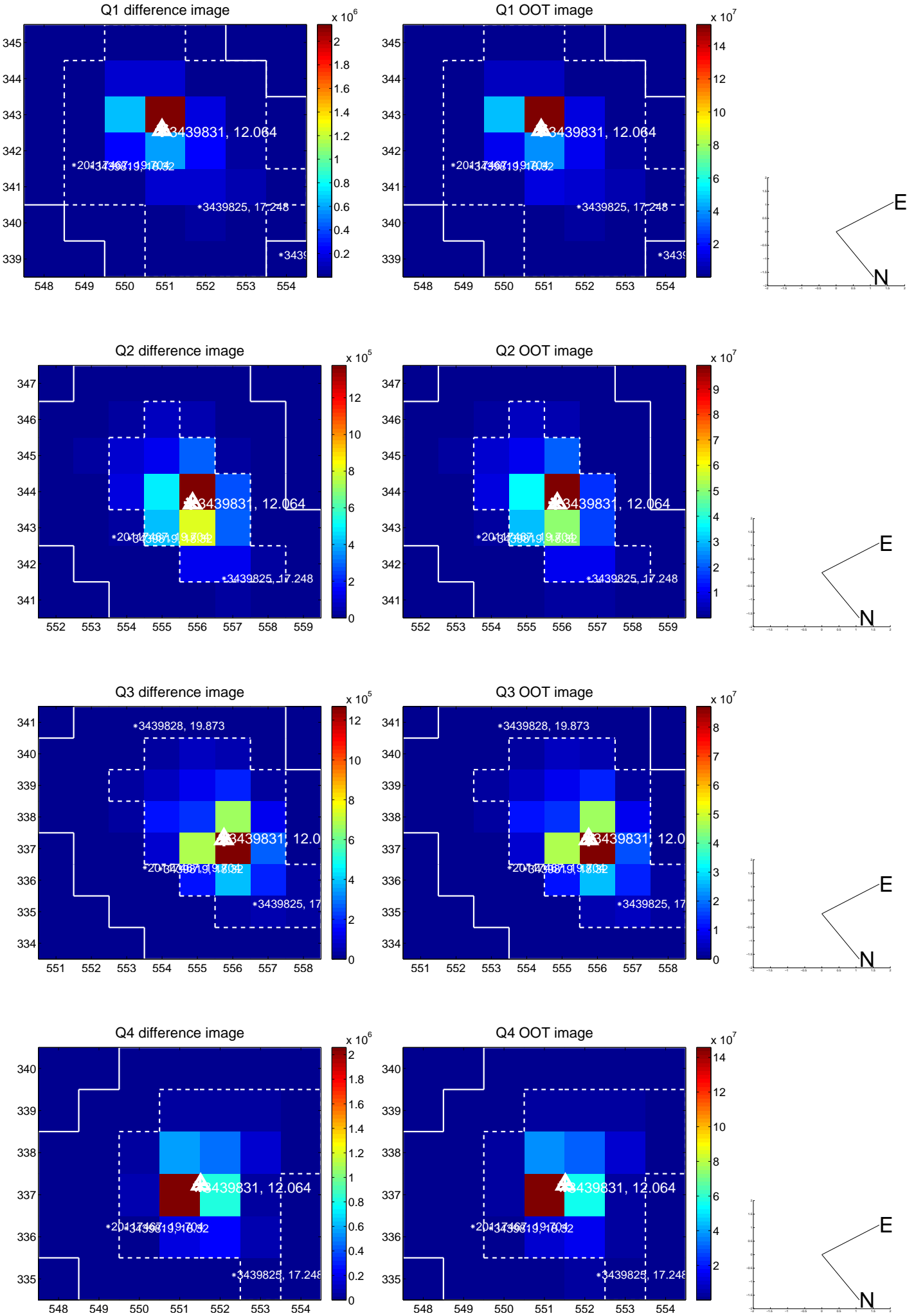


offset from photometric centroids

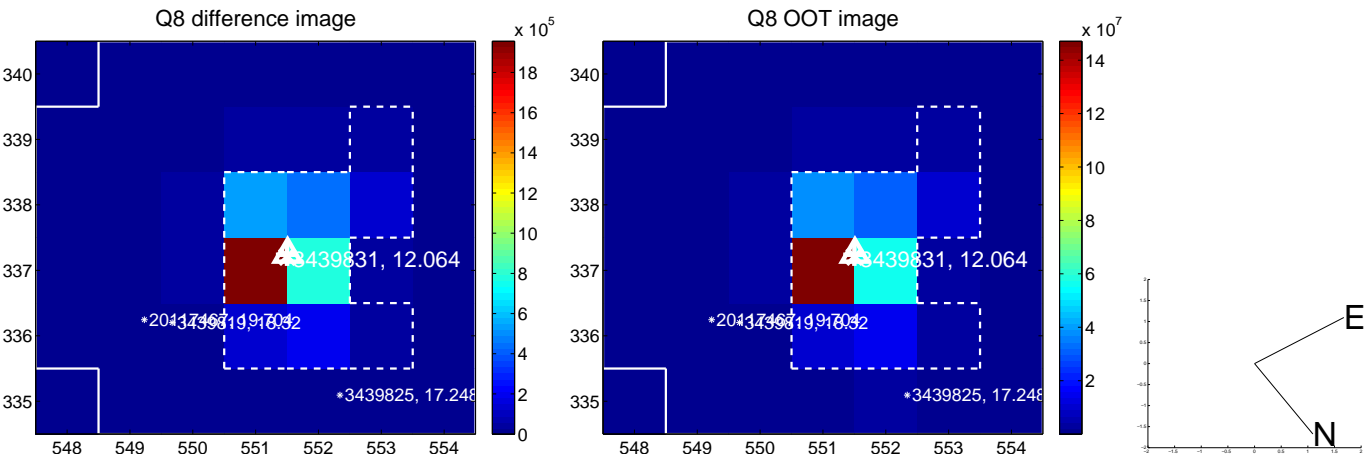
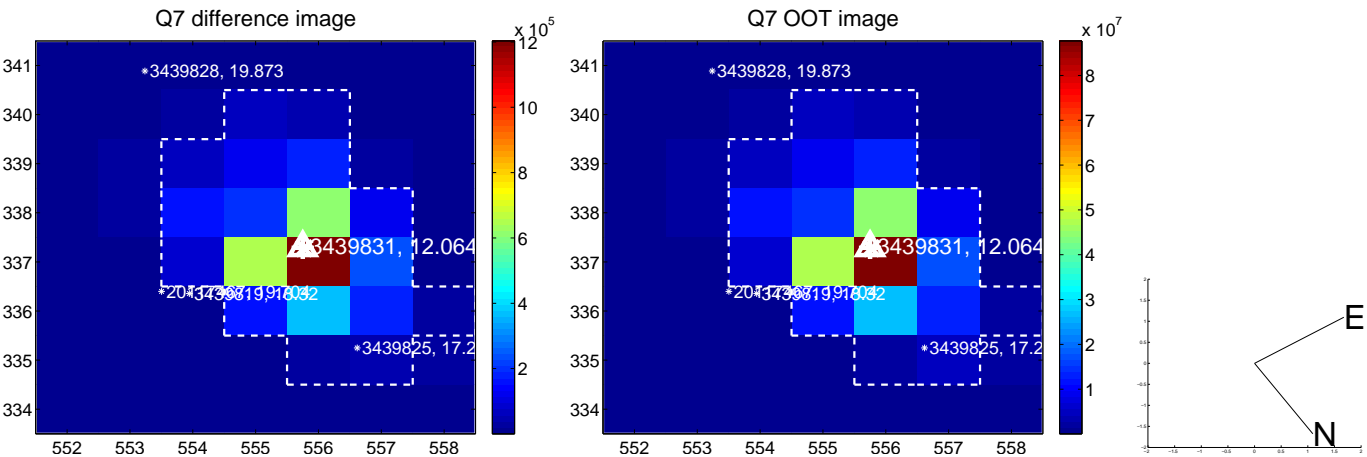
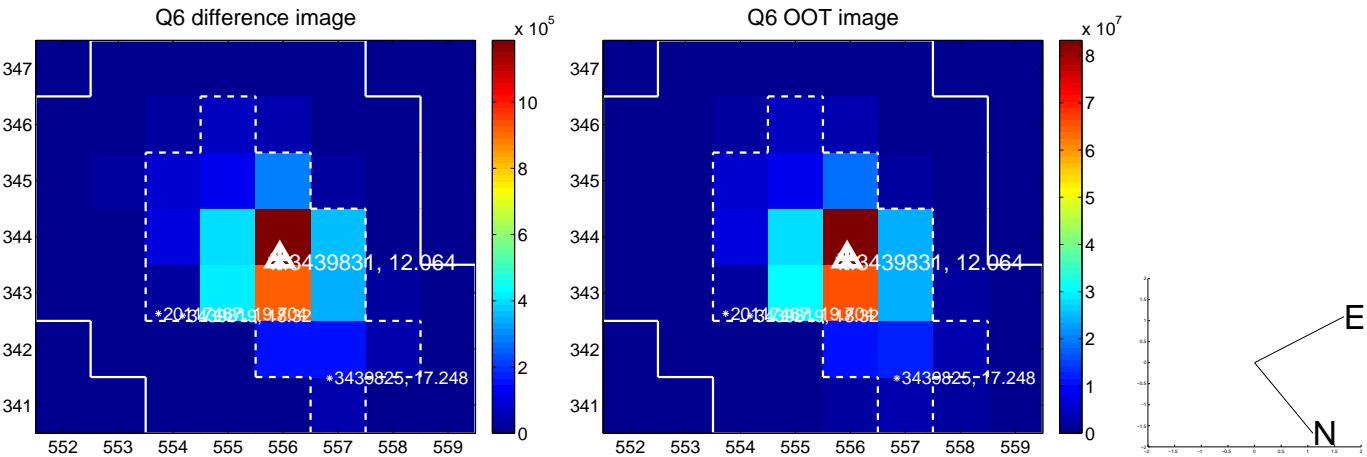
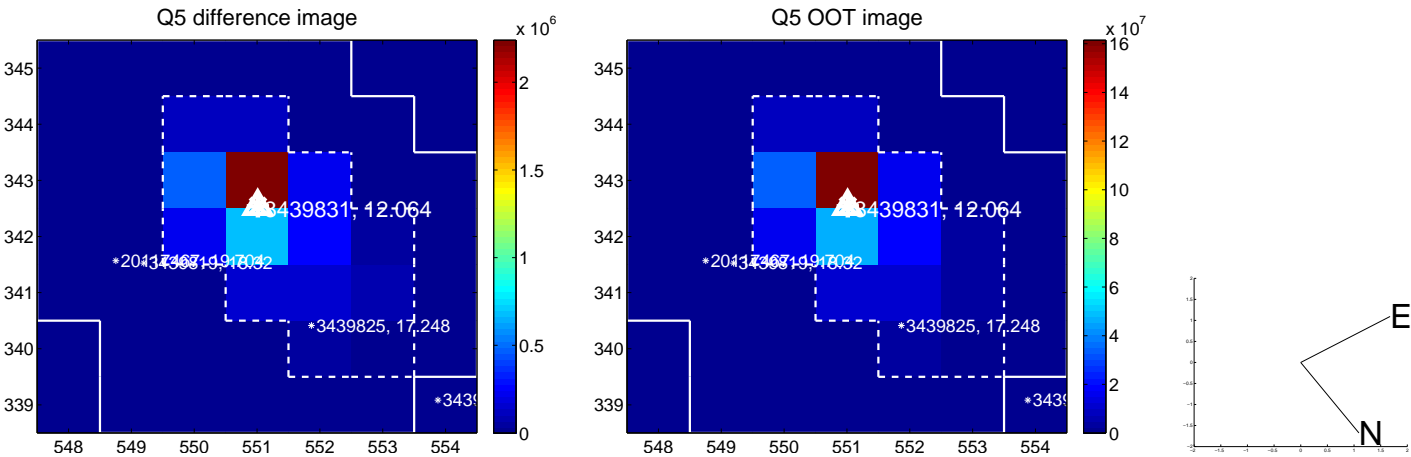


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

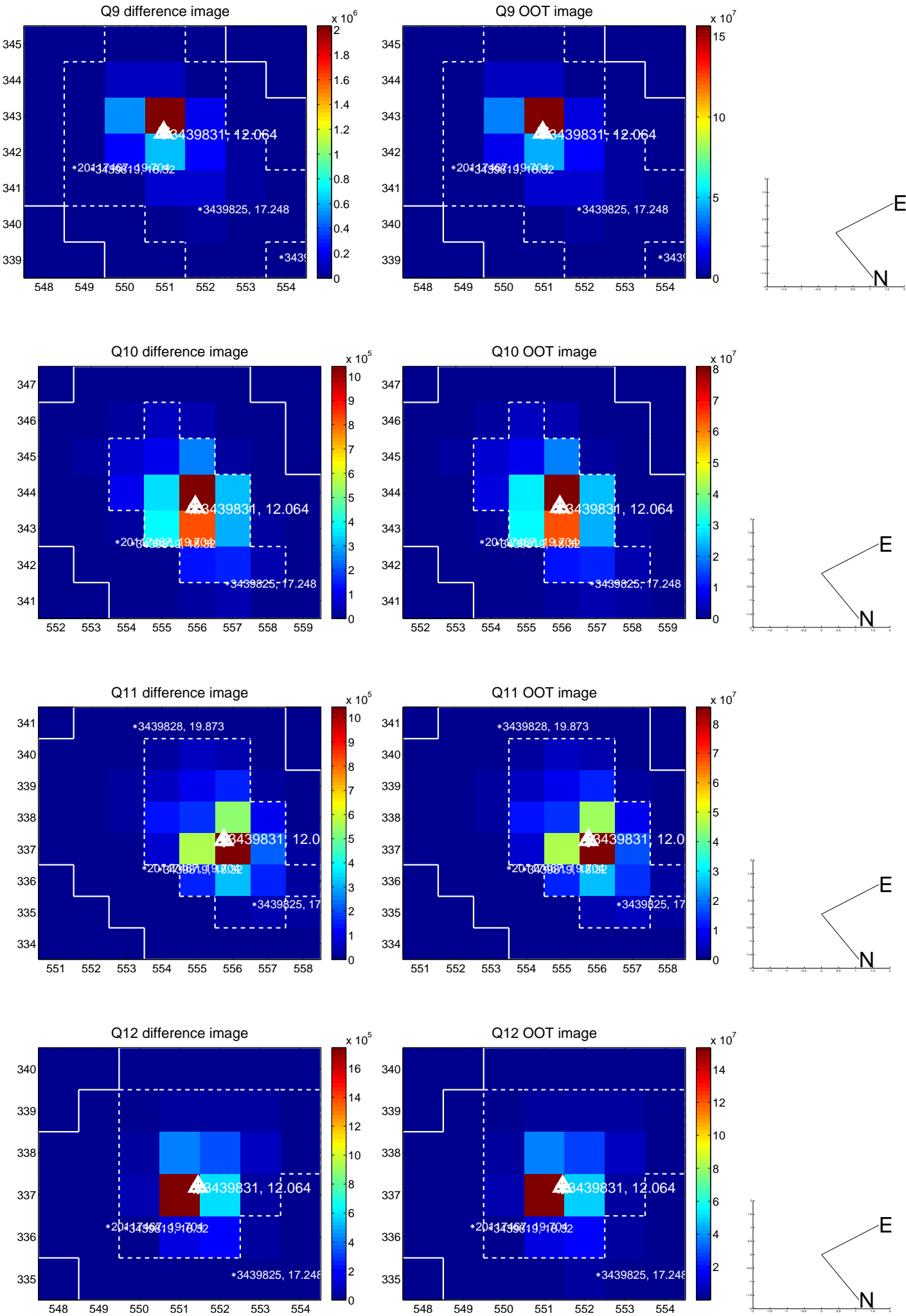
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



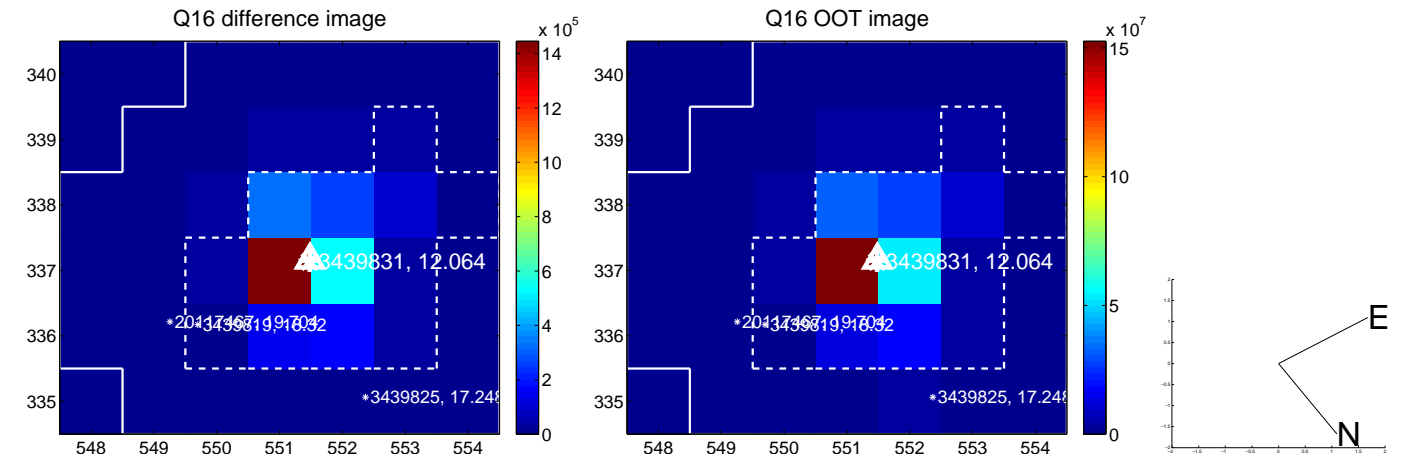
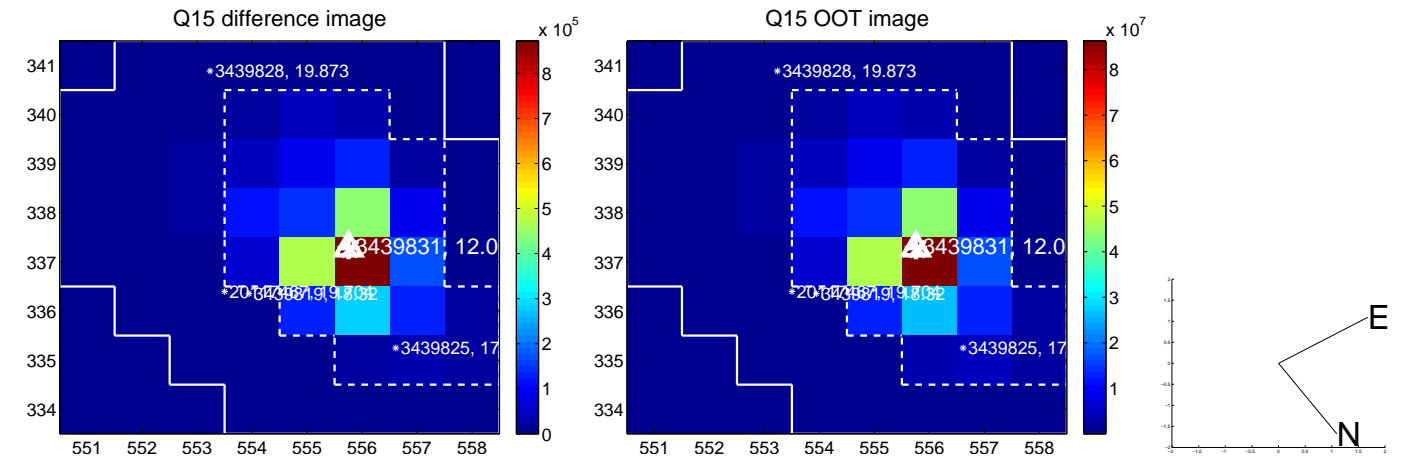
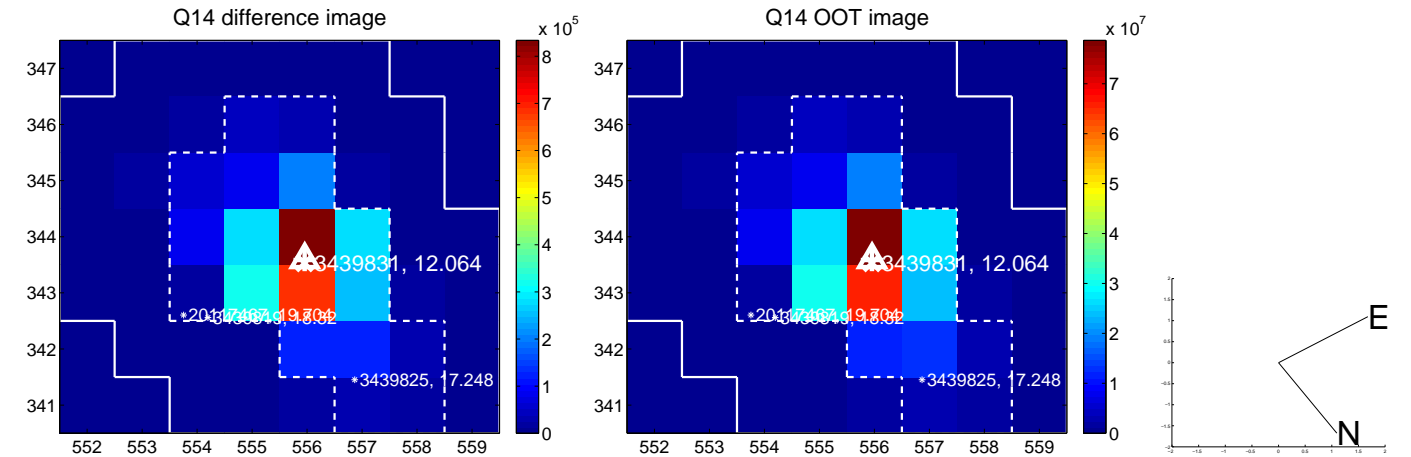
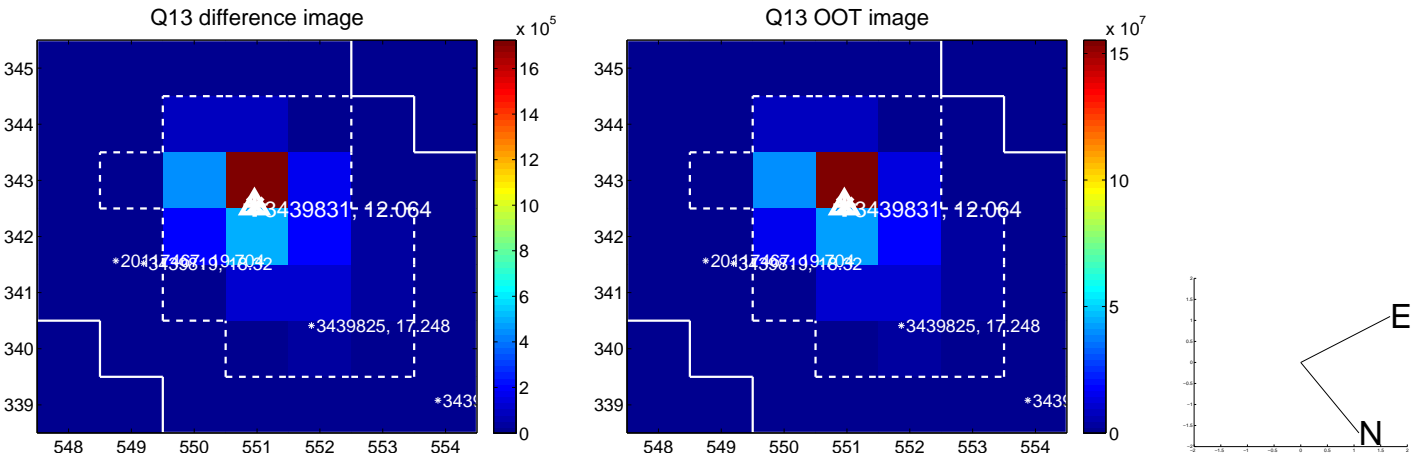
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



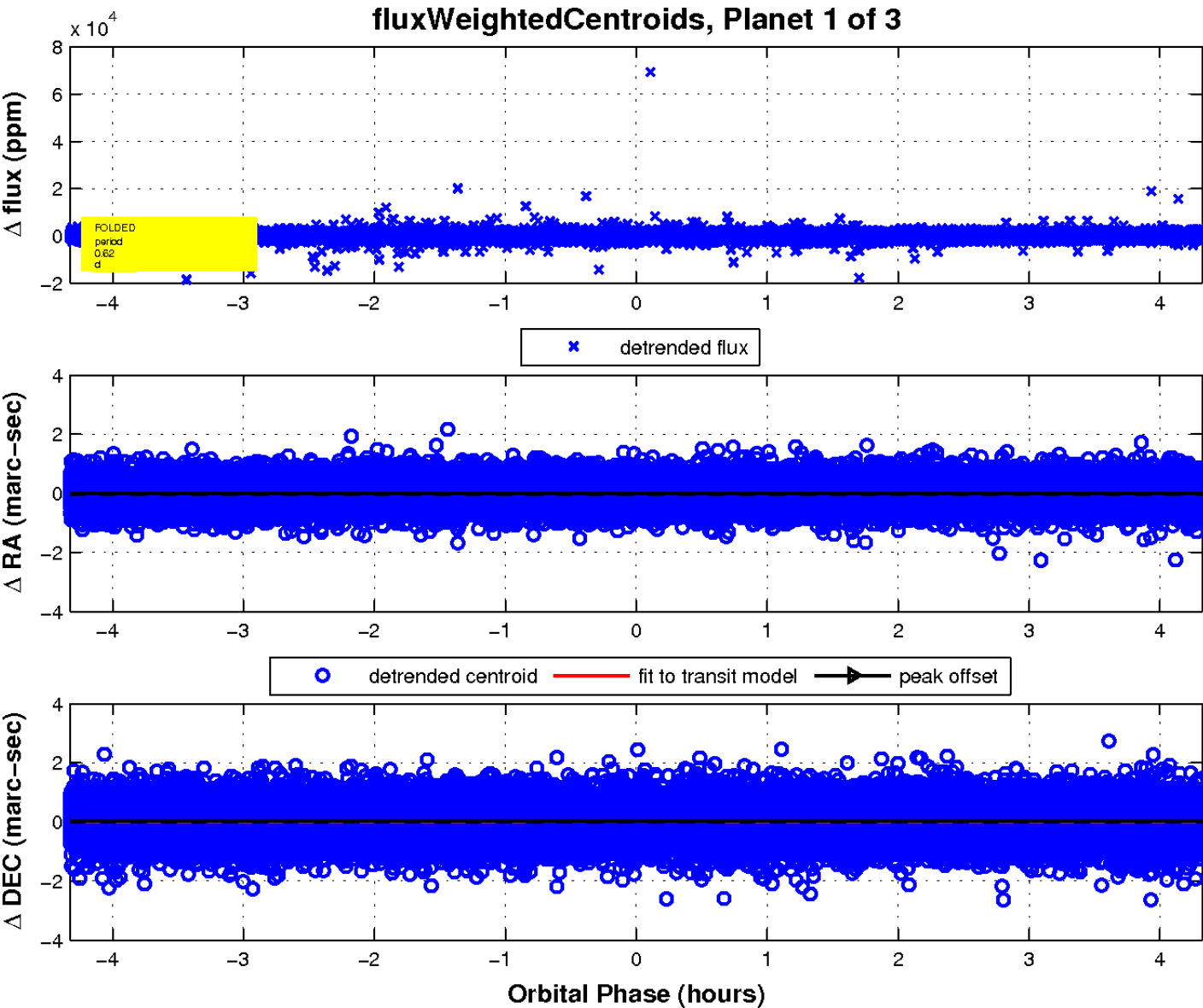
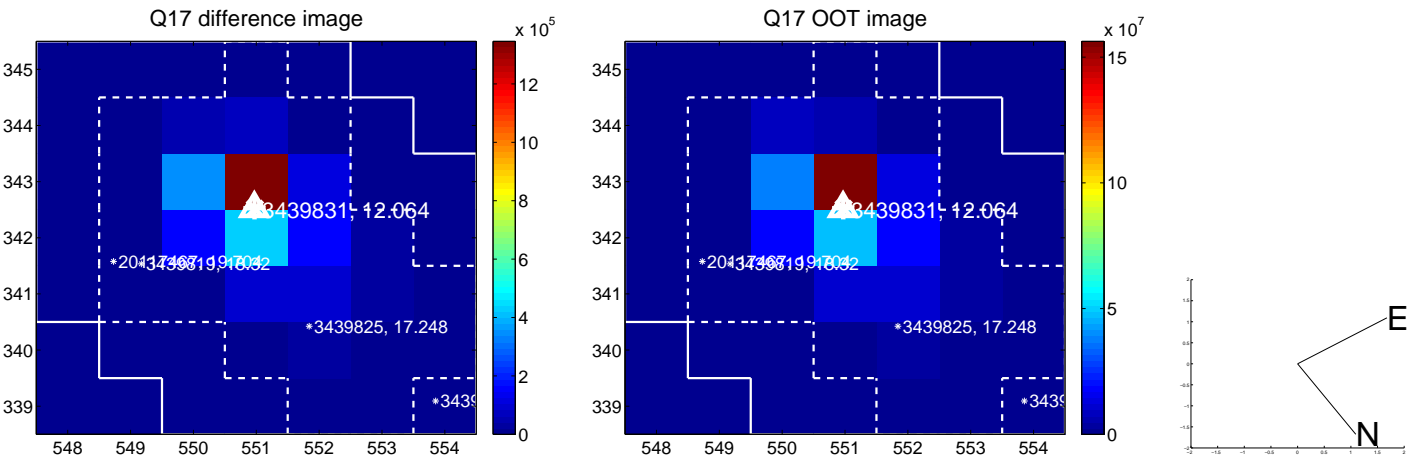
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

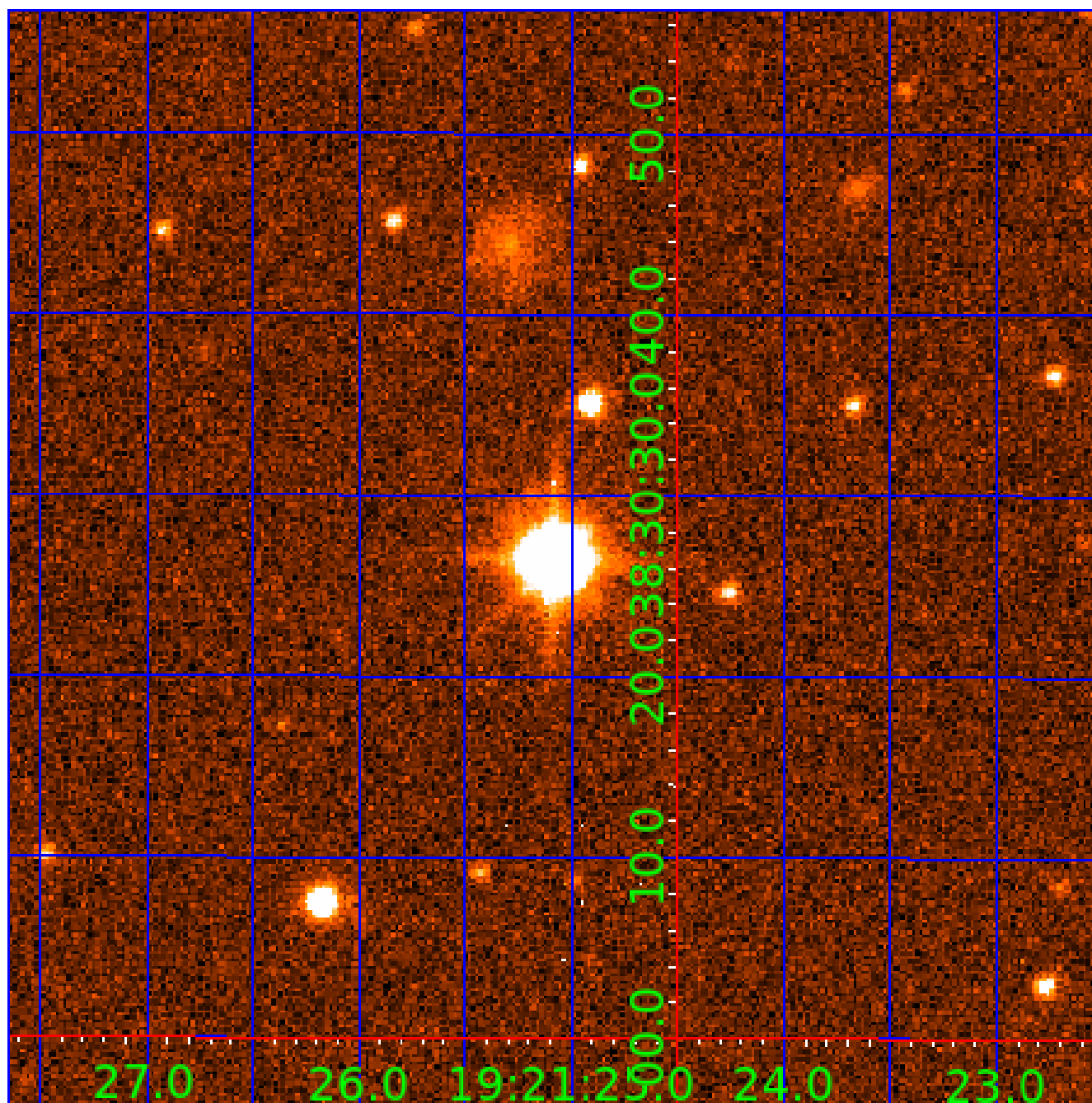


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003439831

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})
003439831-01	OBS	No	0.622497	131.672846	34.1	1.442	13.3	7.6	1.31	5959	0.90	11215.05
003439831-02	OBS	No	0.622121	132.078823	27.5	3.220	10.5	3.8	1.31	5959	0.70	11224.09
003439831-03	OBS	No	75.437751	191.667258	432.5	2.500	15.6	-1.0	1.31	5959	2.74	18.70

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003439831-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—HALO_GHOST
003439831-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
003439831-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS

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

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

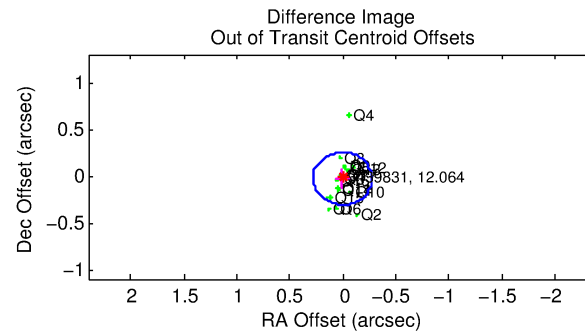
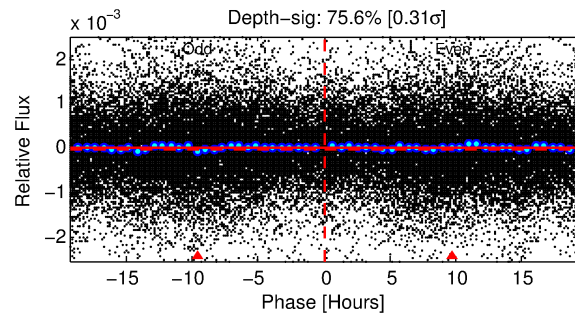
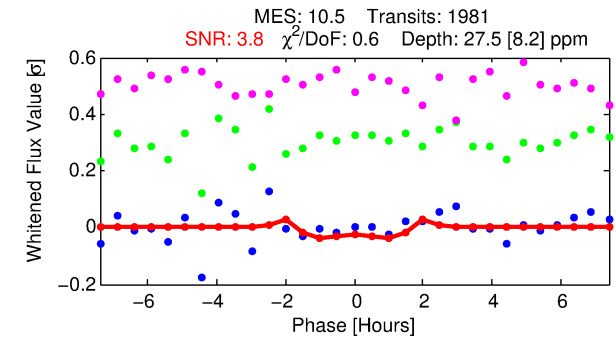
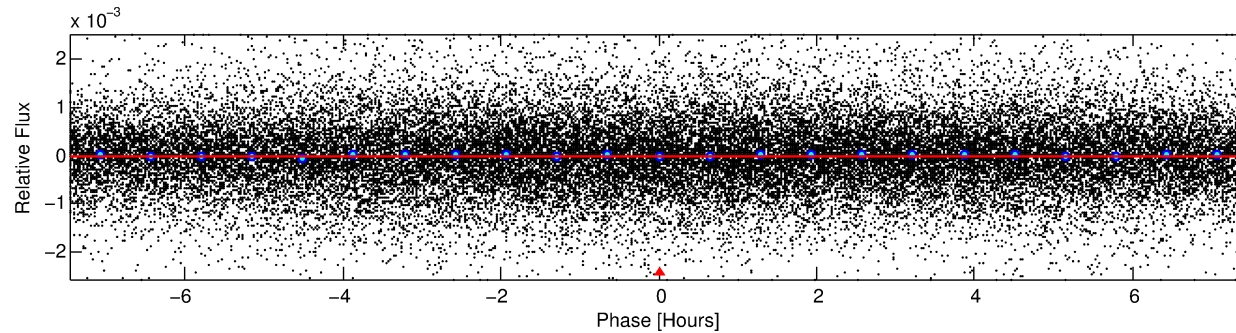
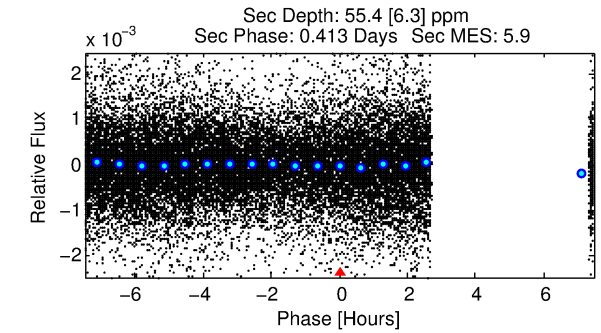
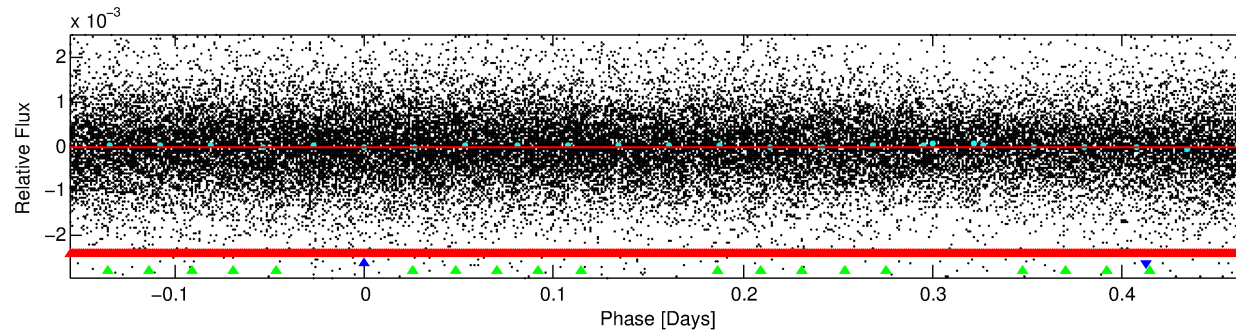
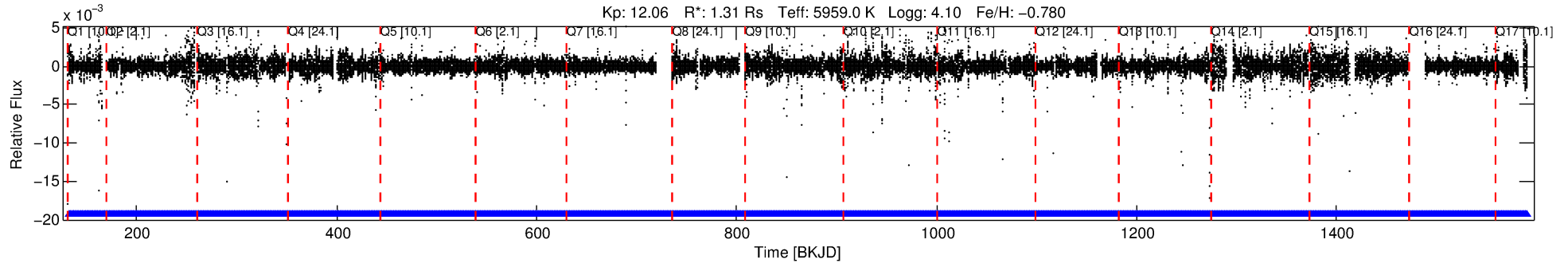
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003439831-02

No Significant Match Found

DV One-Page Summary

KIC: 3439831 Candidate: 2 of 3 Period: 0.622 d



DV Fit Results:

Period = 0.62212 [0.00002] d
Epoch = 132.0788 [0.0033] BKJD
Rp/R* = 0.0049 [0.0031]
a/R* = 1.54 [2.87]
b = 0.36 [7.94]
Seff = 11224.09 [8454.47]
Teq = 2625 [494] K
Rp = 0.70 [0.52] Re
a = 0.0132 [0.0057] AU
Ag = 10.81 [15.99] [0.61σ]
Teffp = 7359 [2357] K [1.97σ]

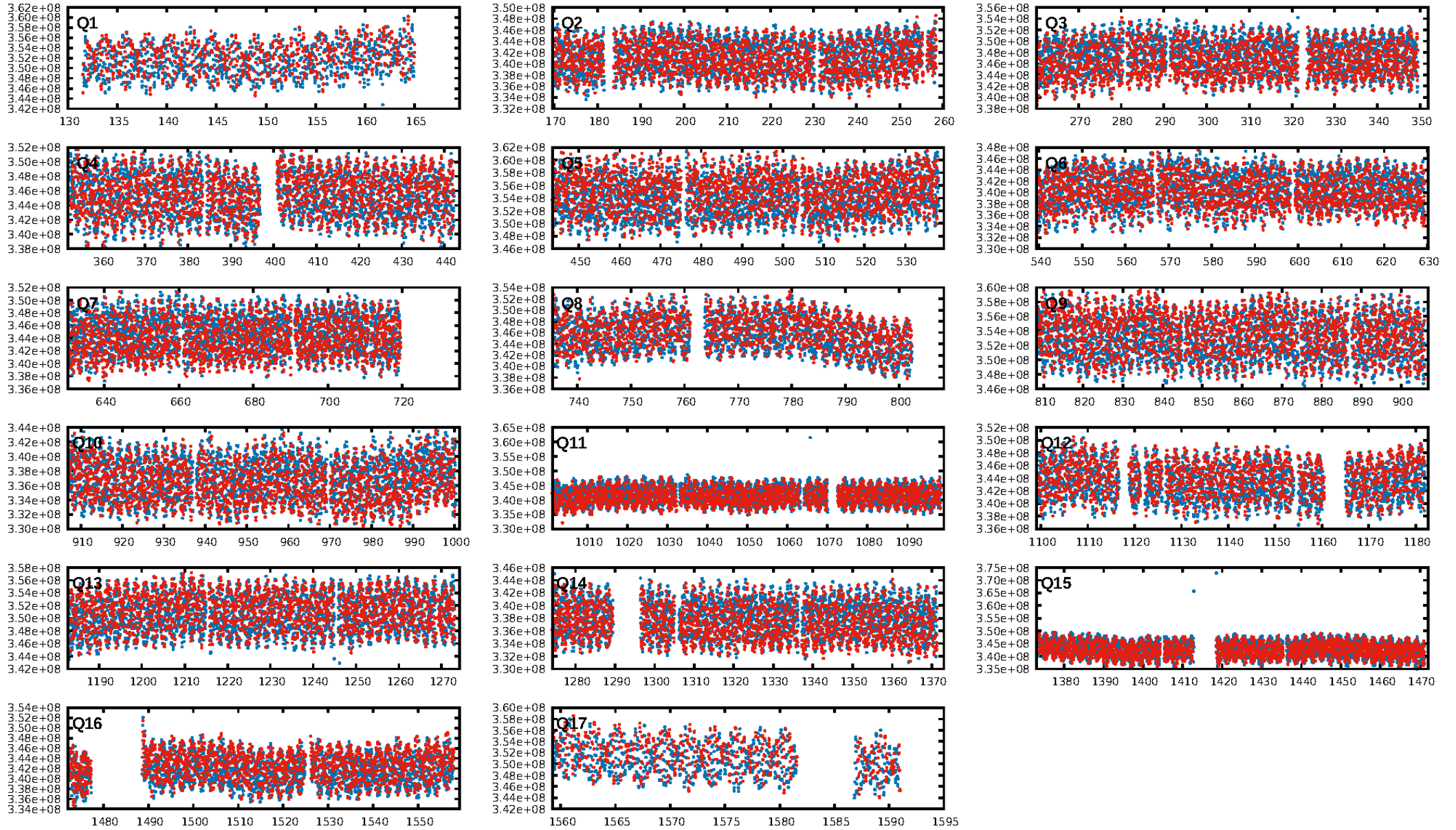
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.2% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGo-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1882/1882]
GhostDiagnostic-chr: -2.106
Centroid-sig: 26.5%
Centroid-so: 0.321 arcsec [0.80σ]
OotOffset-rm: 0.028 arcsec [0.30σ]
KicOffset-rm: 0.092 arcsec [1.03σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.53 [9/17]
DiffImageOverlap-fno: 0.00 [0/17]

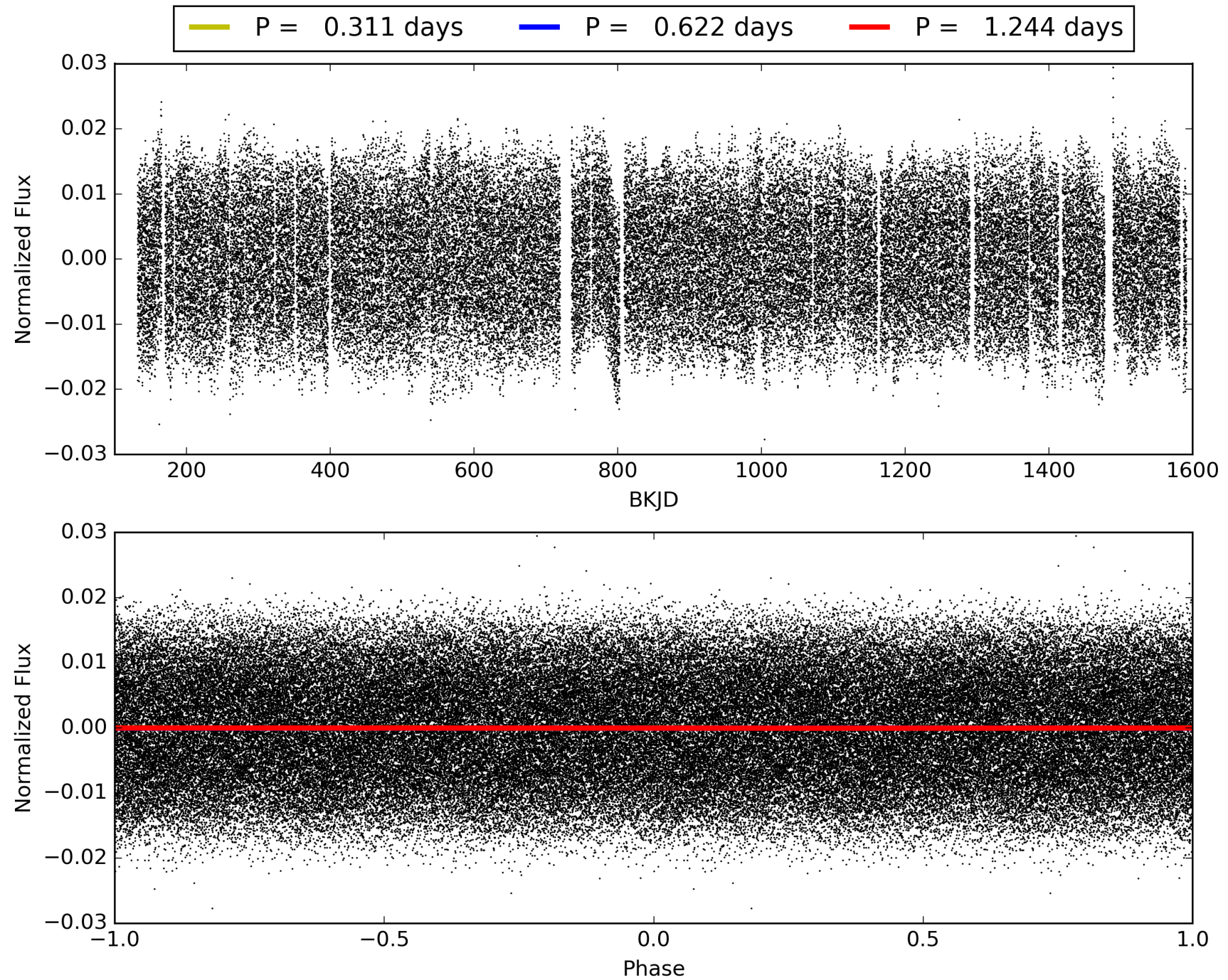
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 09:12:06 Z

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

TCE 003439831-02, PDC Light Curves

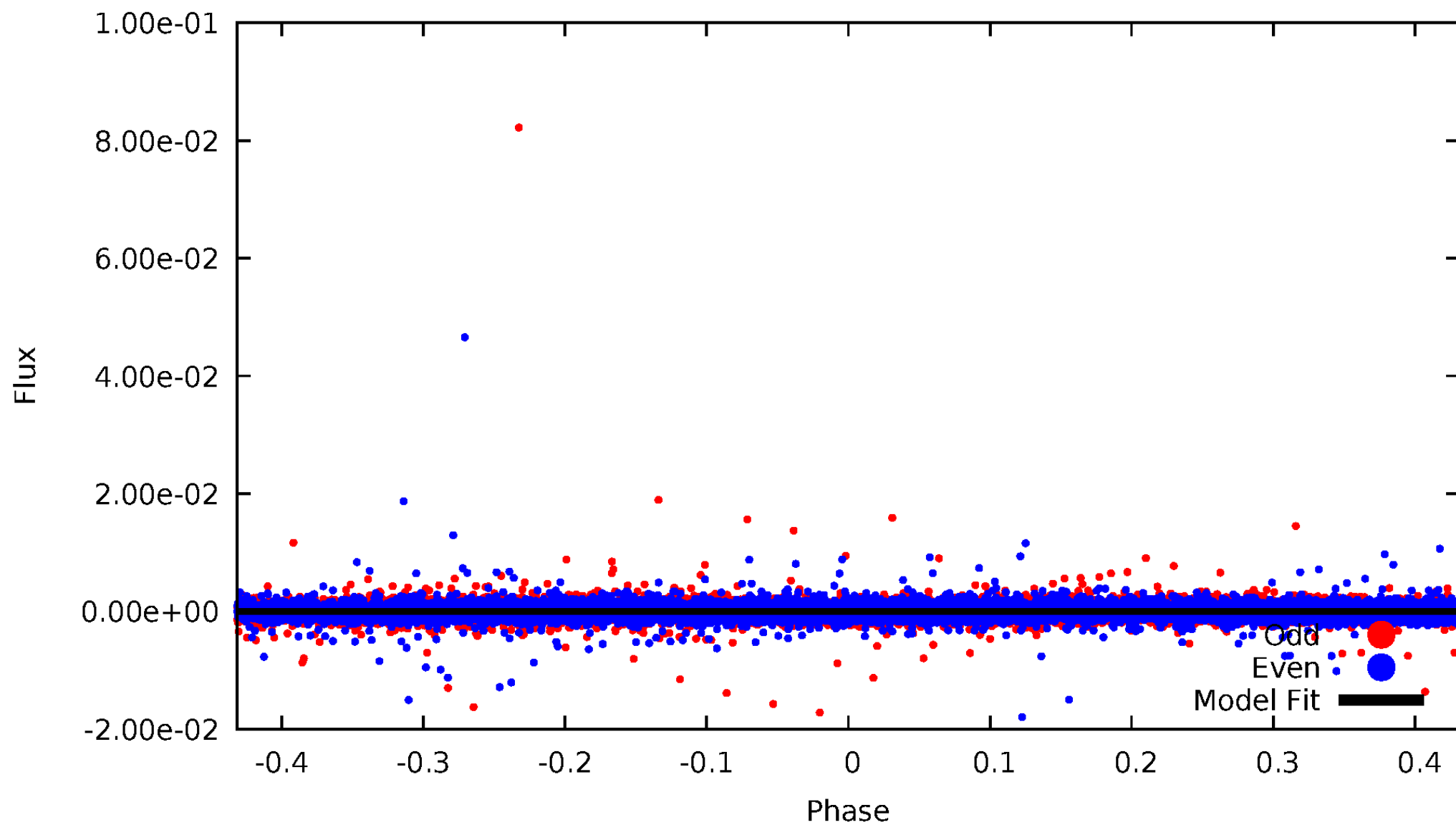


TCE 003439831-02



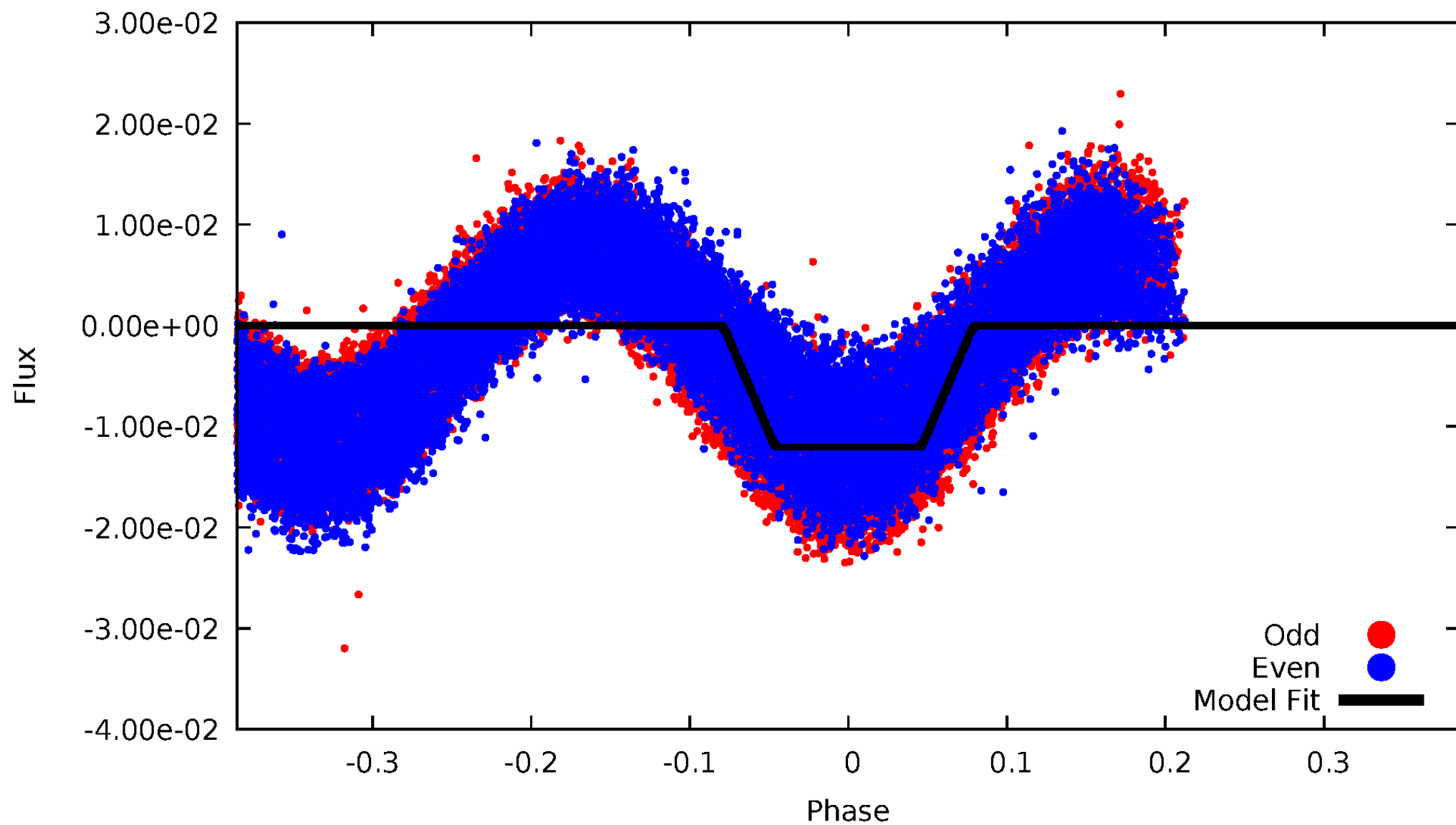
DV Odd/Even

TCE 003439831-02



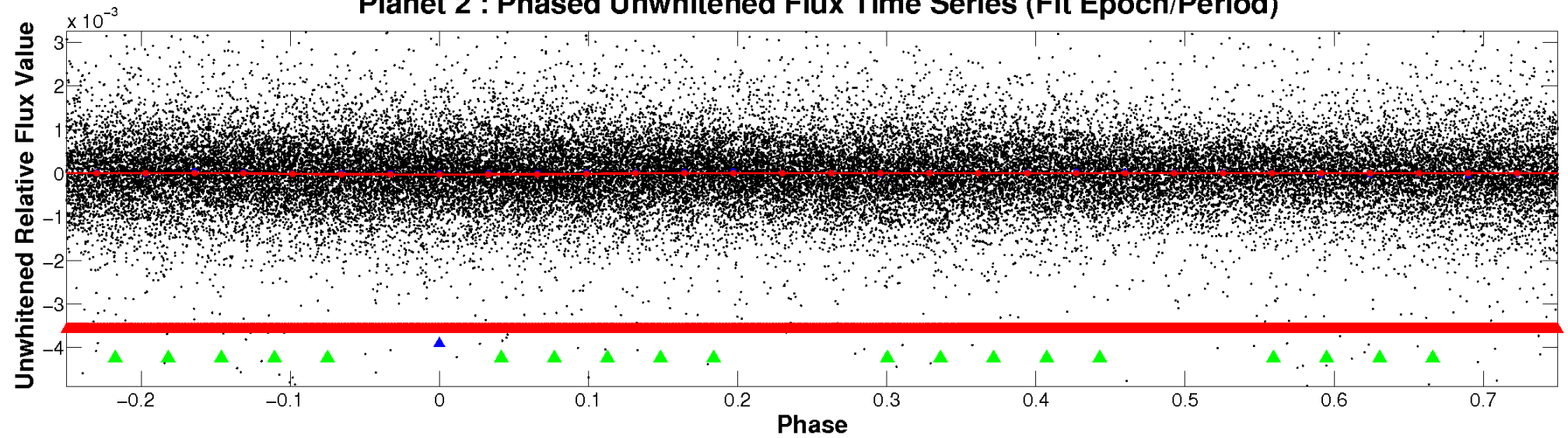
ALT Odd/Even

TCE 003439831-02

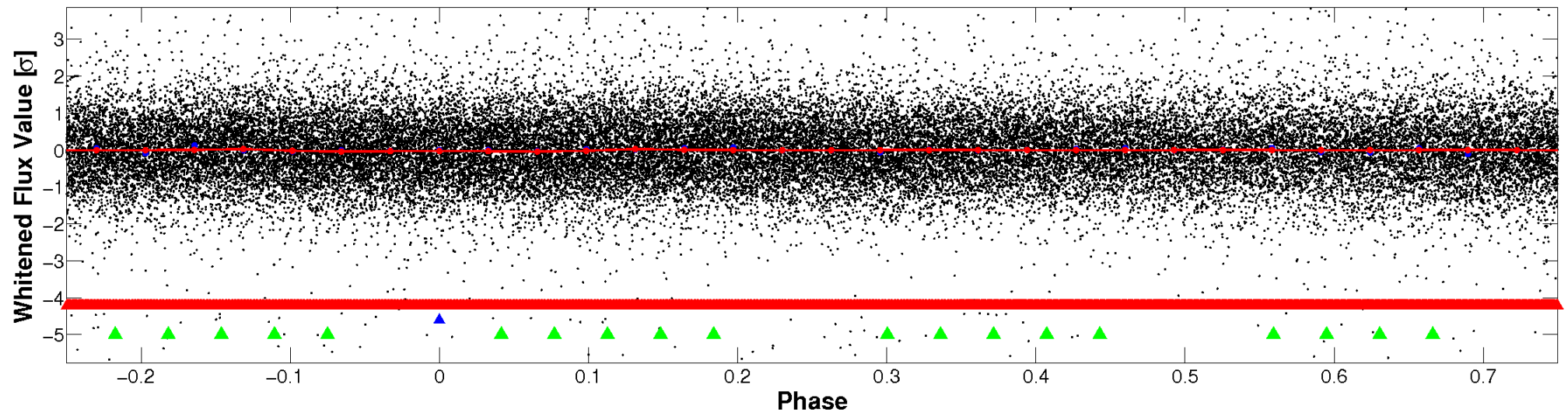


Non-Whitened Vs. Whitened Light Curve

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

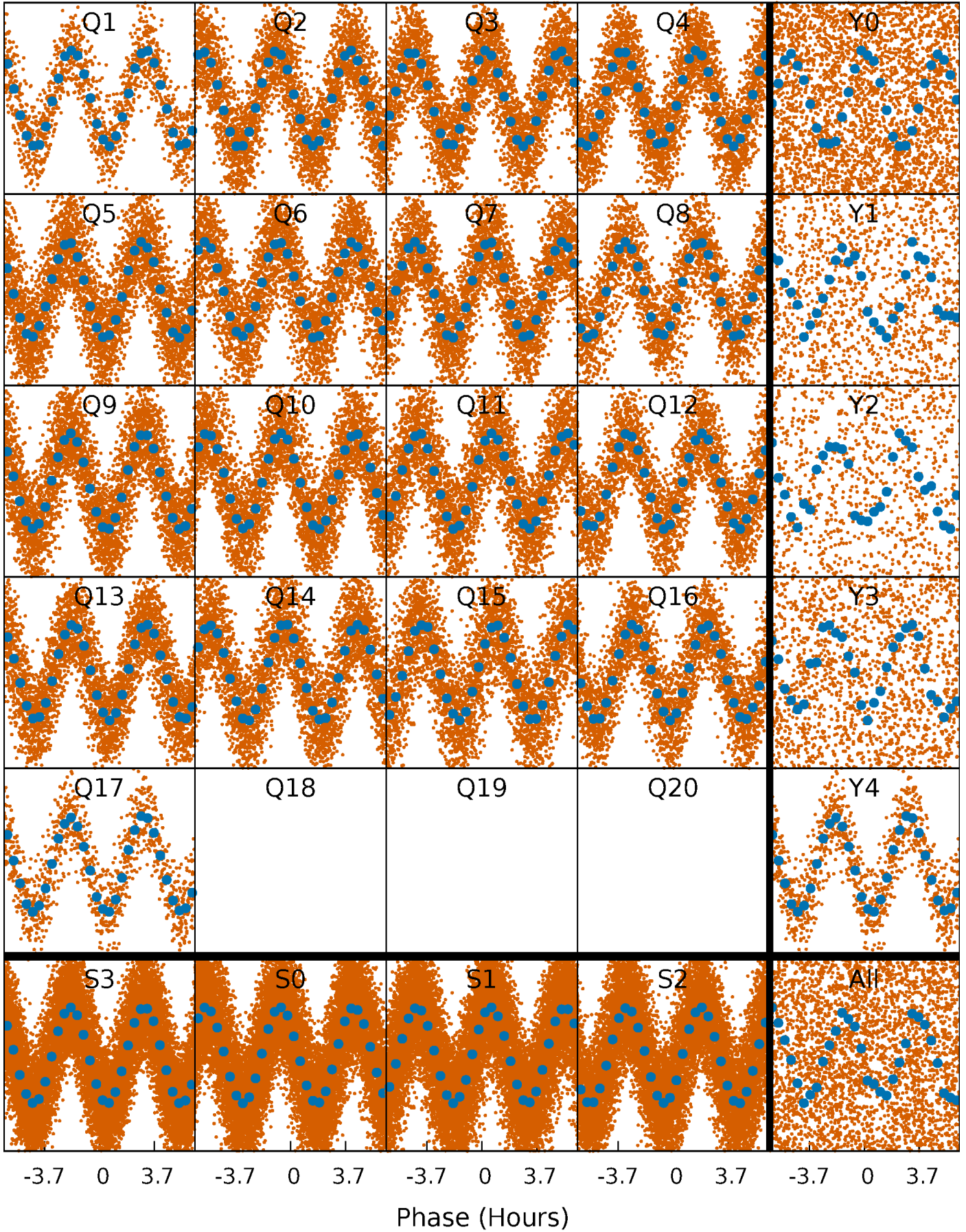


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



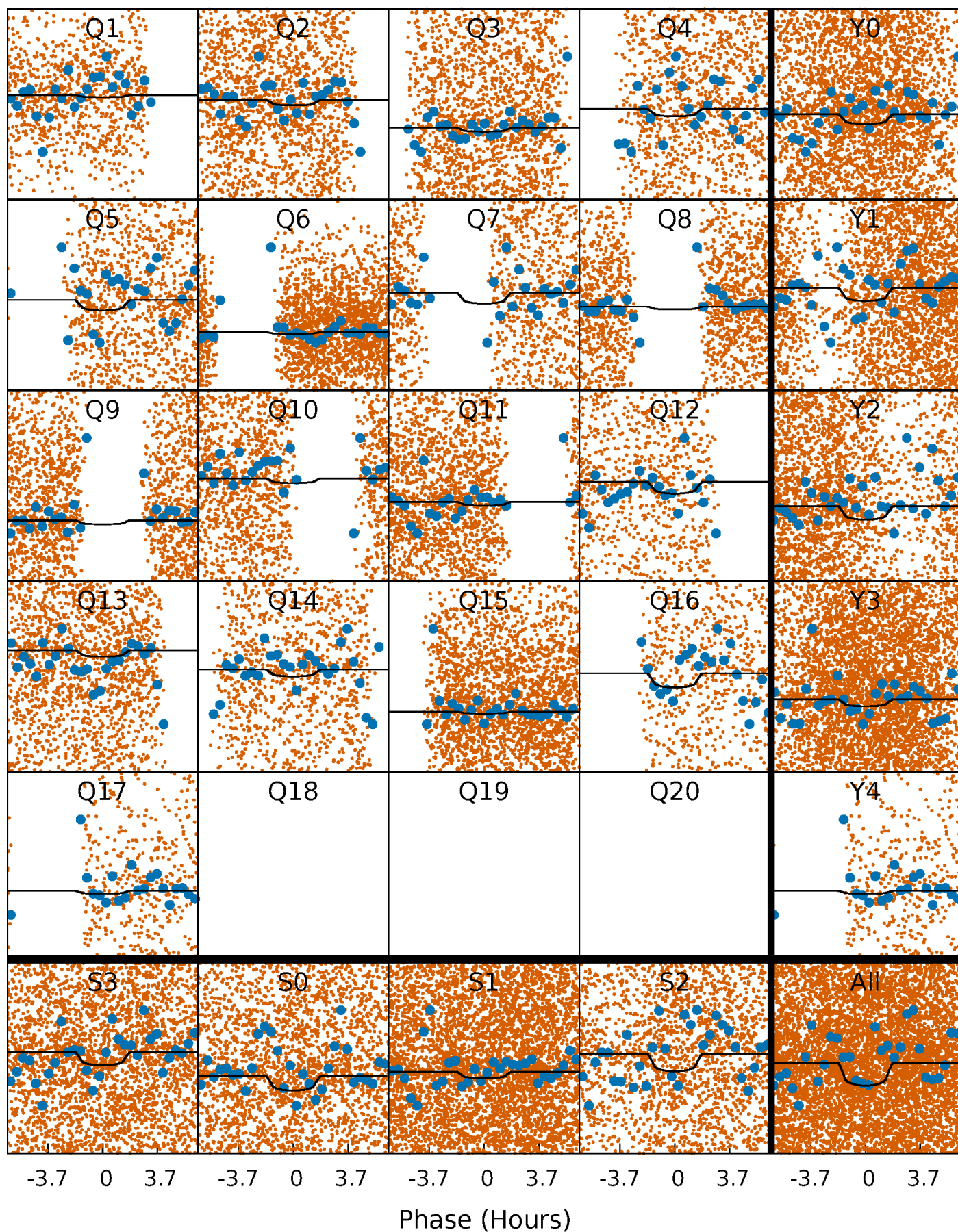
PDC Quarter-Phased Transit Curves

TCE 003439831-02 P= 0.622121 Days $T_0=132.078823$ (BKJD)



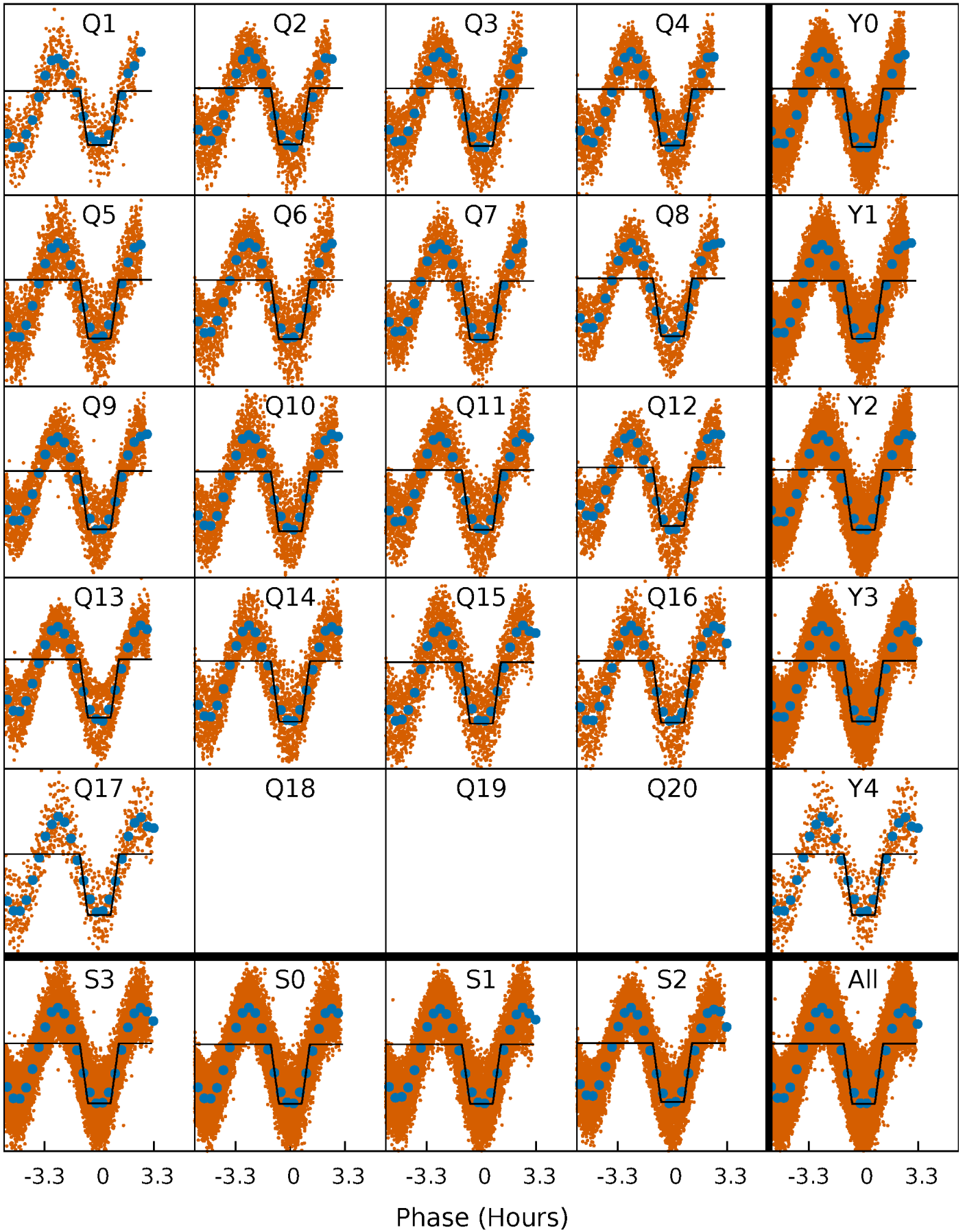
DV Quarter-Phased Transit Curves

TCE 003439831-02 P= 0.622121 Days $T_0=132.078823$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

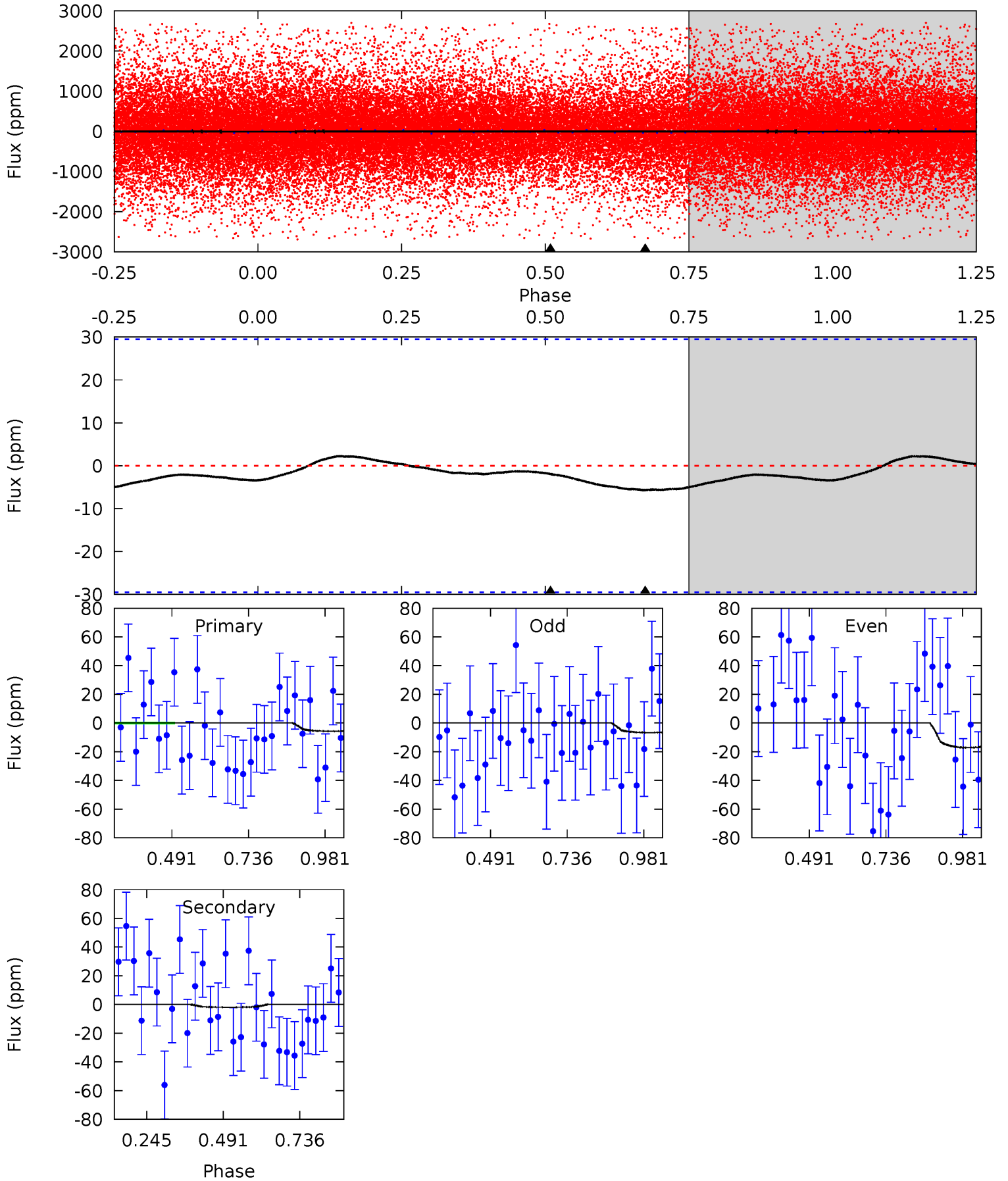
TCE 003439831-02 P= 0.622482 Days $T_0=132.094760$ (BKJD)



DV Model-Shift Uniqueness Test

003439831-02, P = 0.622121 Days, E = 131.456702 Days

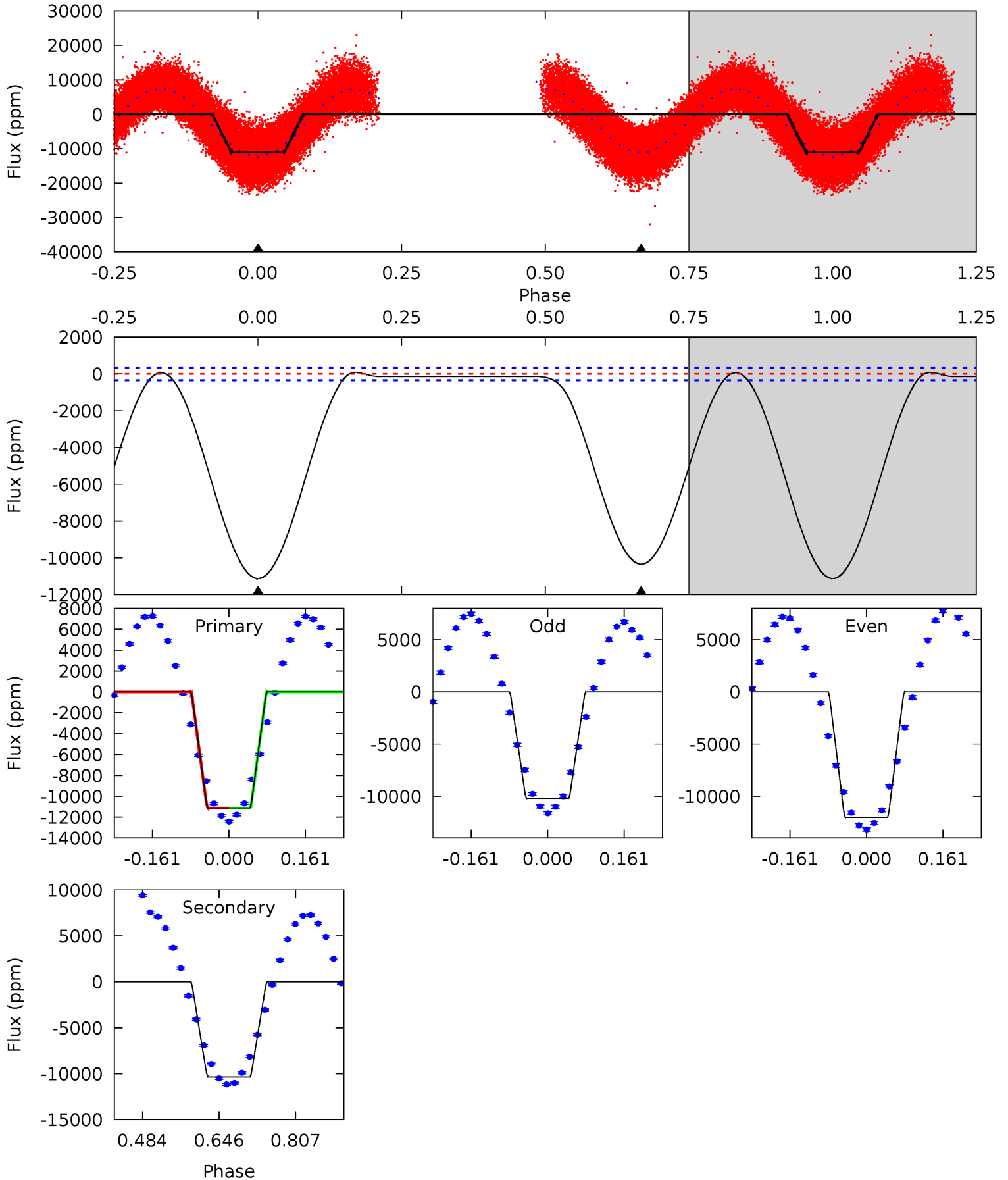
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.85	0.29	0	0	4.37	1.16	0.31	0.85	0.85	0.29	0.29	0.77	0.91	0.28	0.70



Alt Model-Shift Uniqueness Test

003439831-02, P = 0.622482 Days, E = 131.472278 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
143.1	133.0	0	0	4.46	1.40	1.28	143.1	143.1	133.0	133.0	13.4	1.01	0.01	0.09



Stellar Parameters For KIC 003439831

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	5959^{+160}_{-160}	$4.098^{+0.455}_{-0.195}$	$-0.780^{+0.300}_{-0.300}$	$1.314^{+0.421}_{-0.514}$	$0.789^{+0.092}_{-0.050}$	$0.490^{+1.717}_{-0.278}$
	+3%/-3%	+11%/-5%	+38%/-38%	+32%/-39%	+12%/-6%	+350%/-57%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 003439831-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-2 ± 7	$0.70^{+0.47}_{-0.39}$	3610^{+337}_{-442}	2681^{+2566}_{-7102}	$0.353^{+3.181}_{-1.346}$
Alt.	-10347 ± 78	$15.47^{+3.04}_{-3.61}$	3634^{+325}_{-449}	5657^{+175}_{-164}	$4.198^{+2.944}_{-1.197}$

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

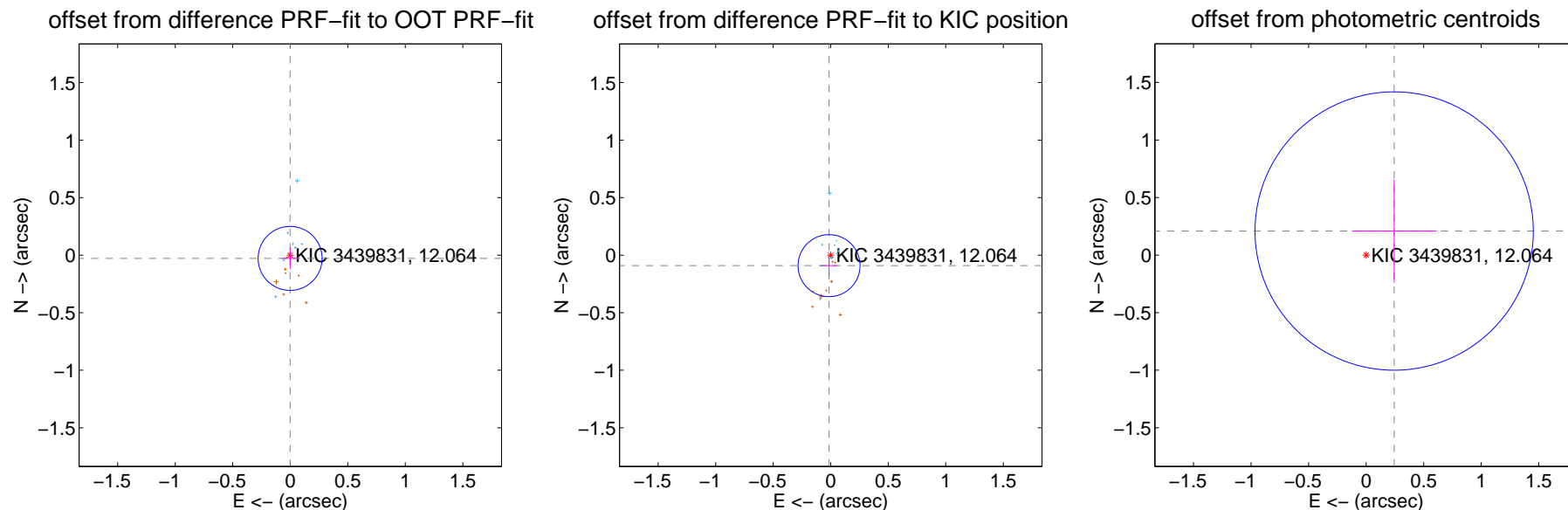
DV Centroid Data

Supplemental centroid analysis for 003439831-02. Kepler magnitude: 12.06. Transit SNR 3.82

There are 9 quarters with good PRF difference image offsets

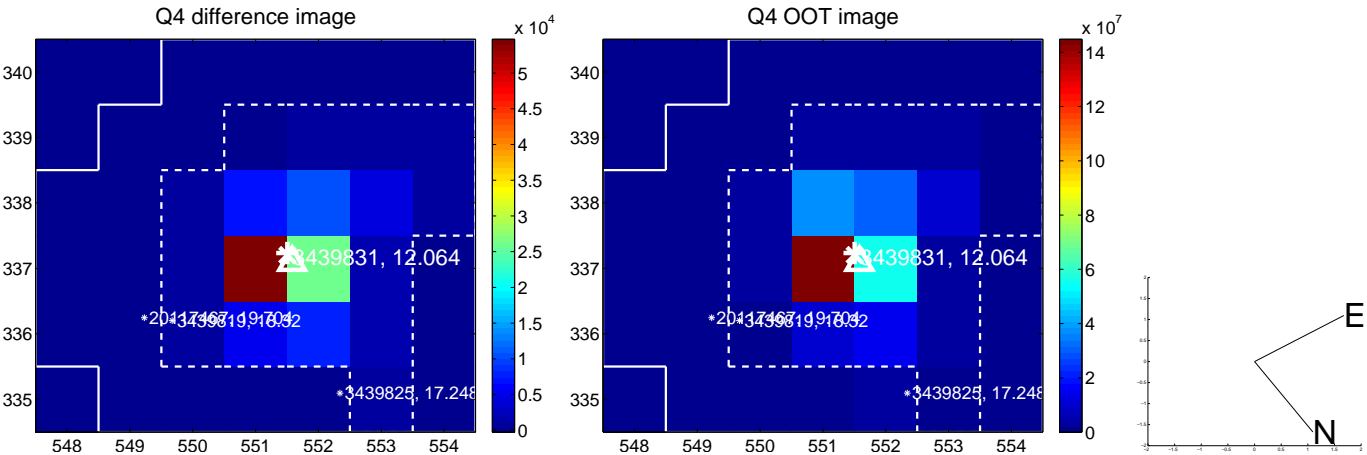
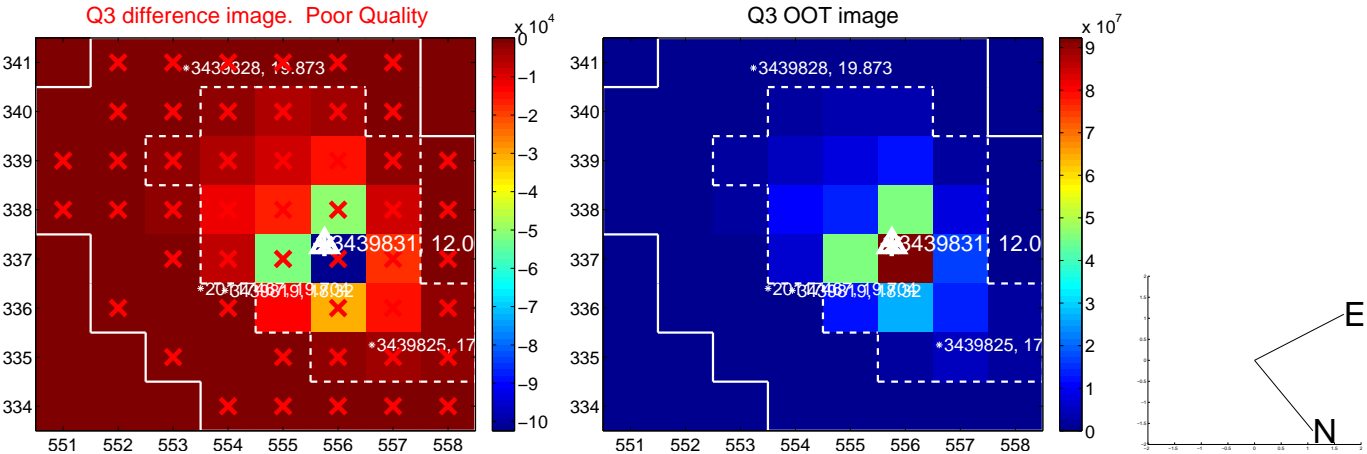
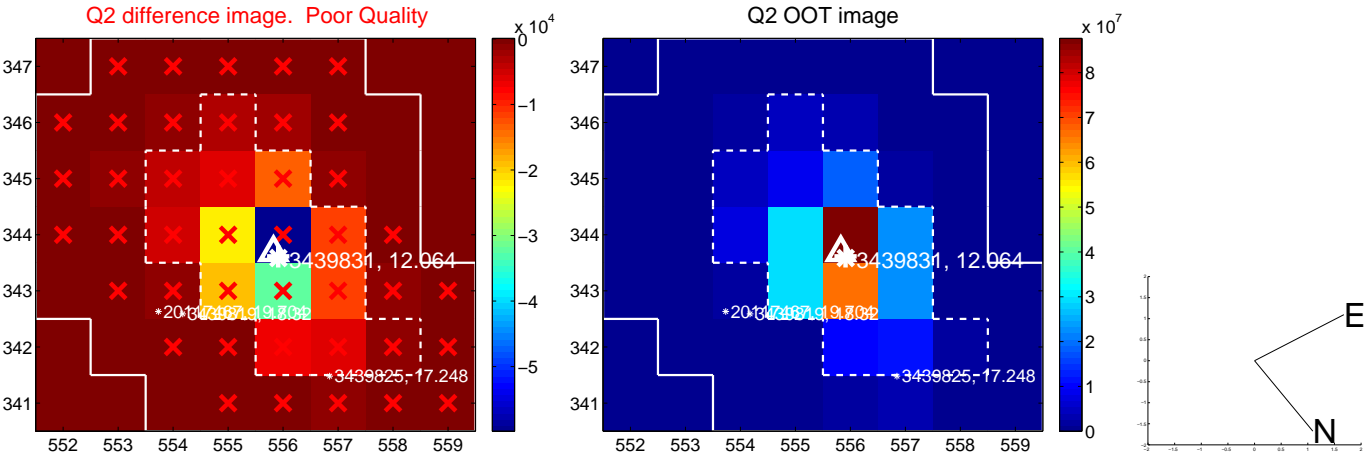
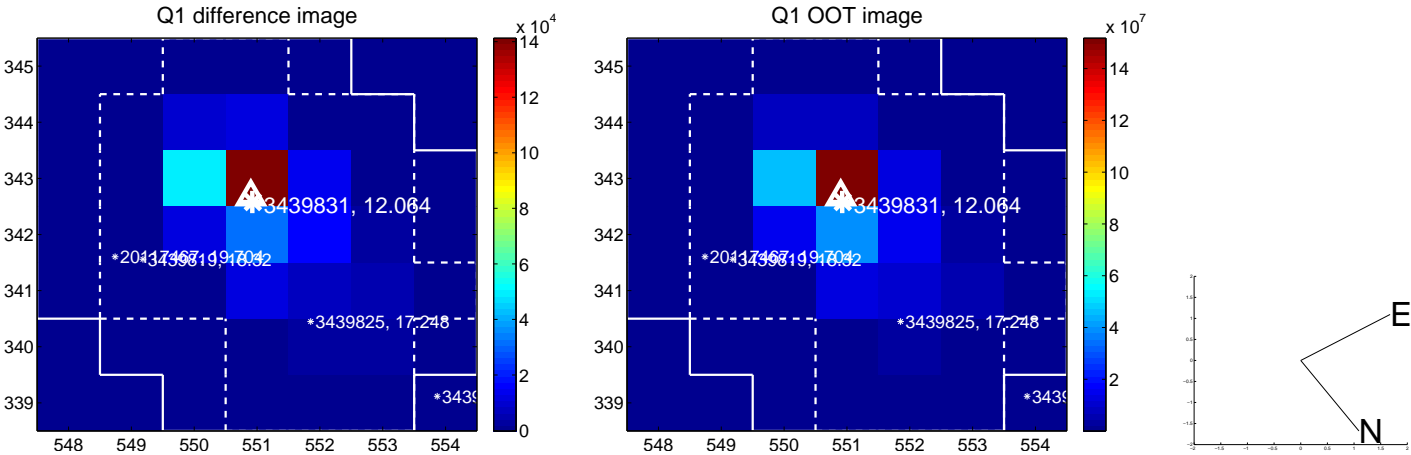
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.028 ± 0.093	0.30	0.001 ± 0.069	-0.028 ± 0.092
PRF-fit source offset from KIC position	0.092 ± 0.090	1.03	0.014 ± 0.069	-0.091 ± 0.090
photometric centroid source offset	0.32 ± 0.40	0.80	-0.24 ± 0.37	0.21 ± 0.45

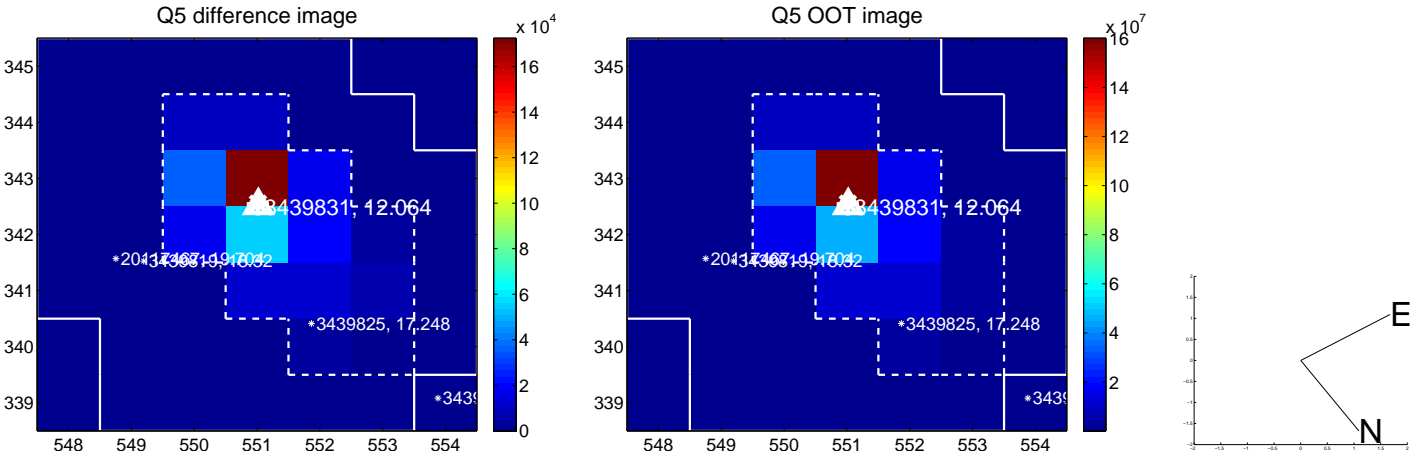


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

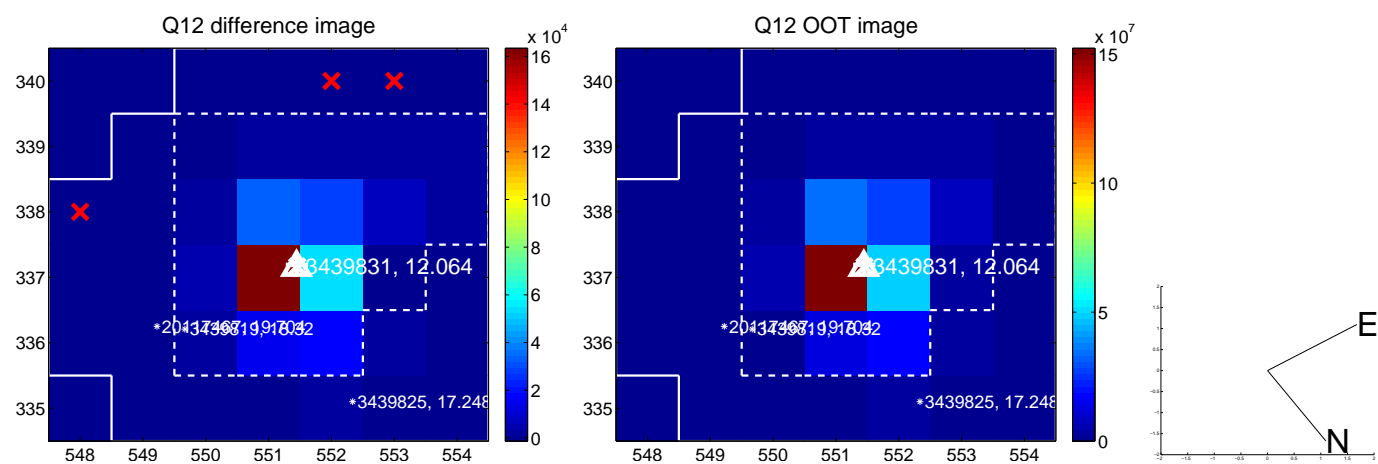
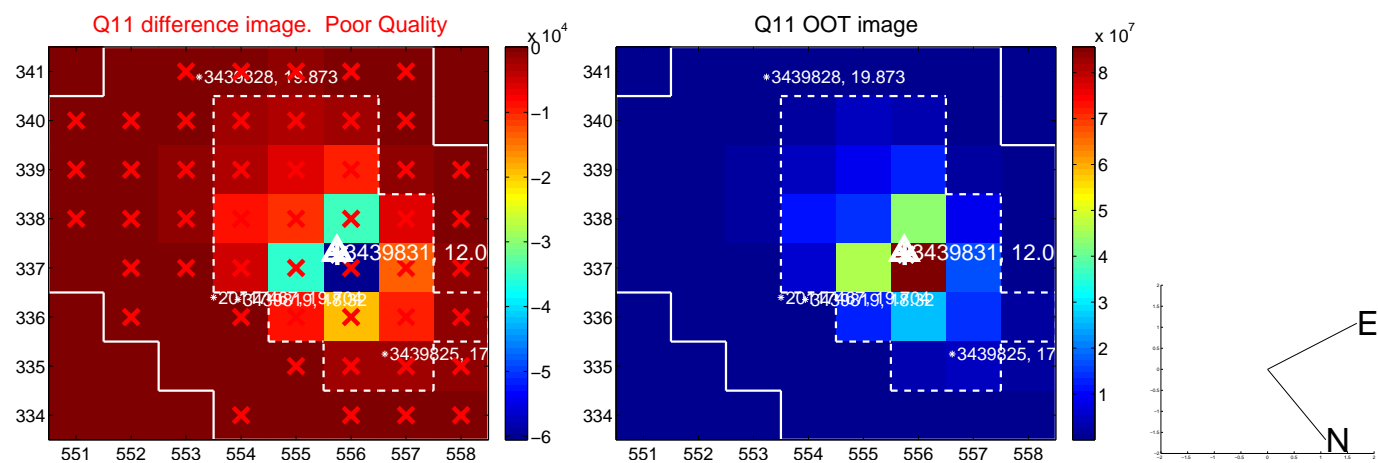
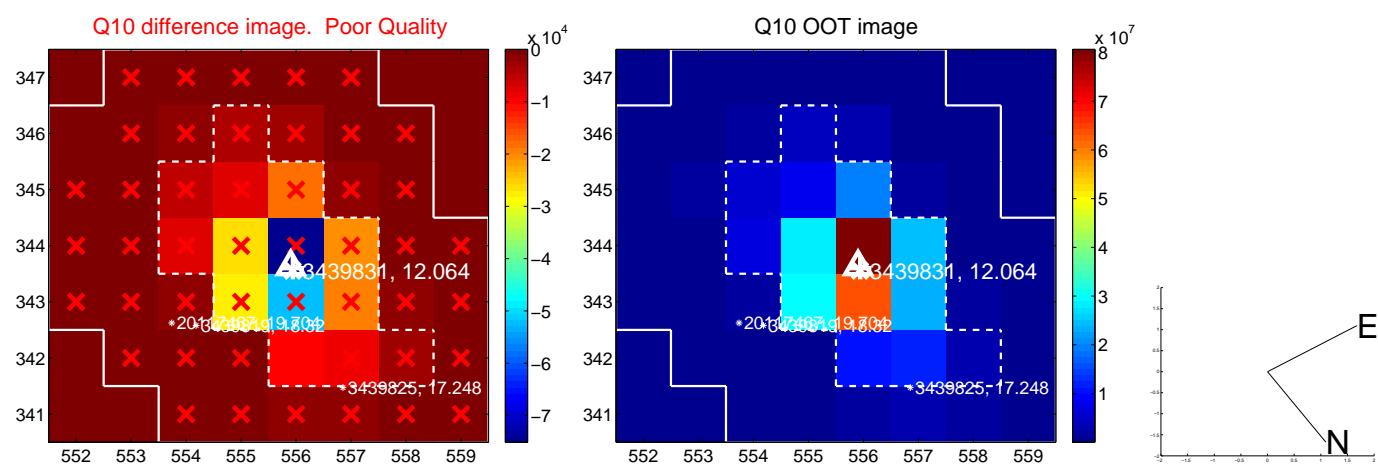
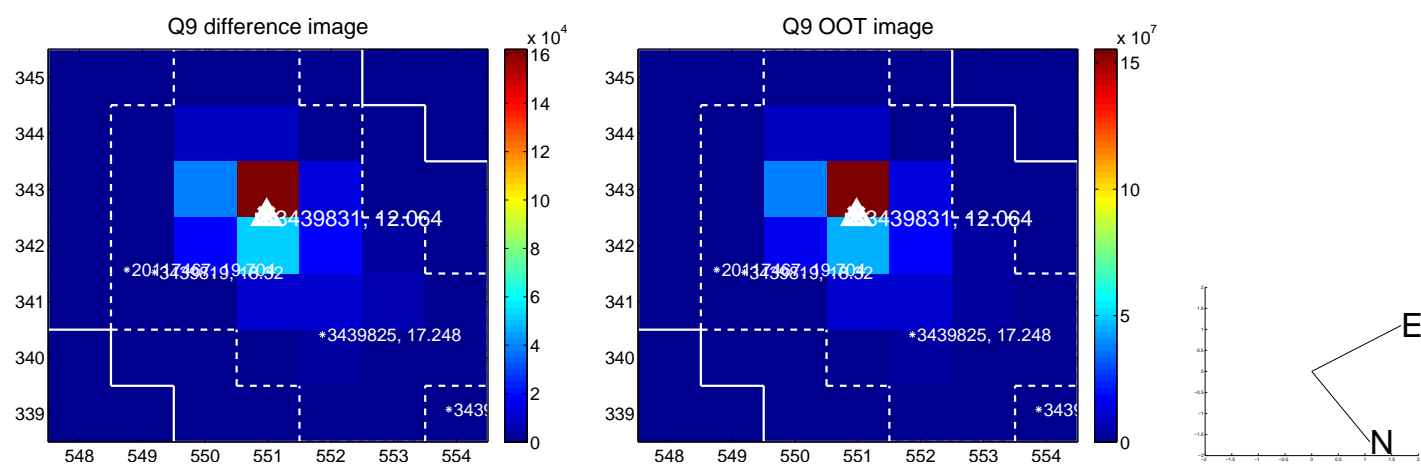
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



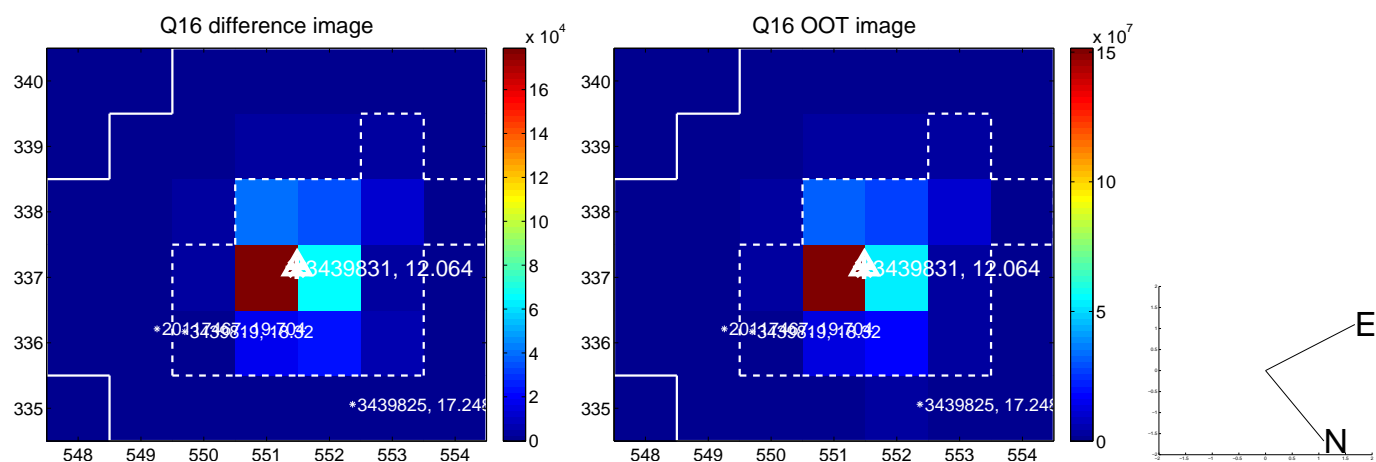
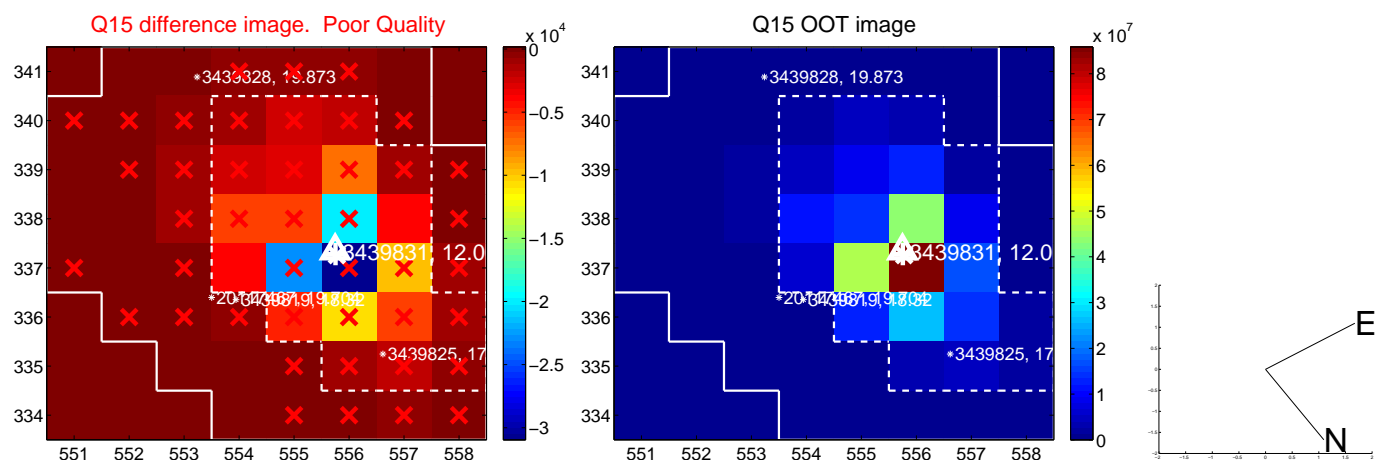
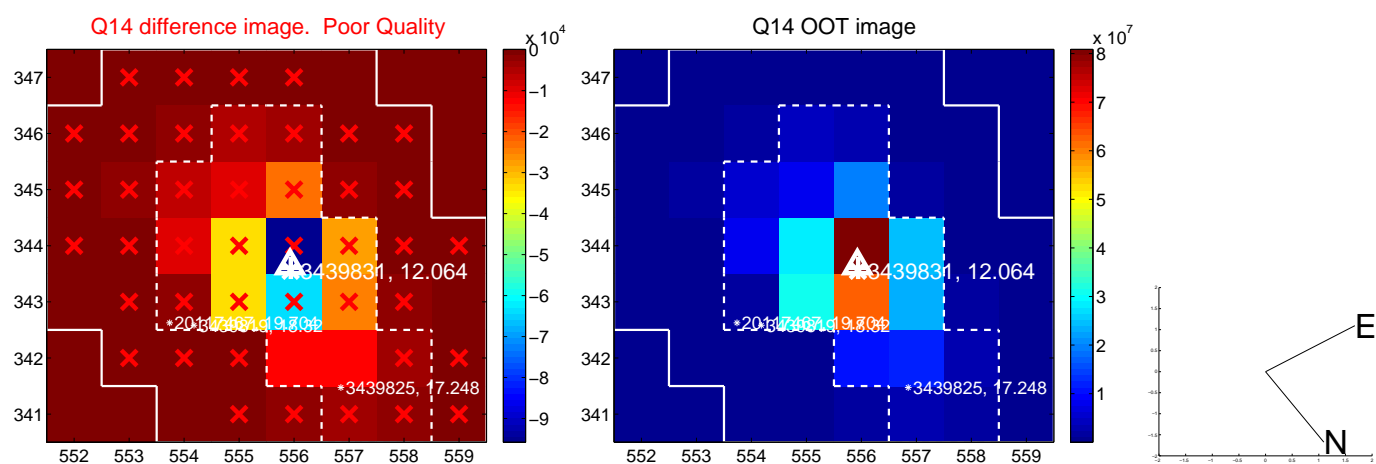
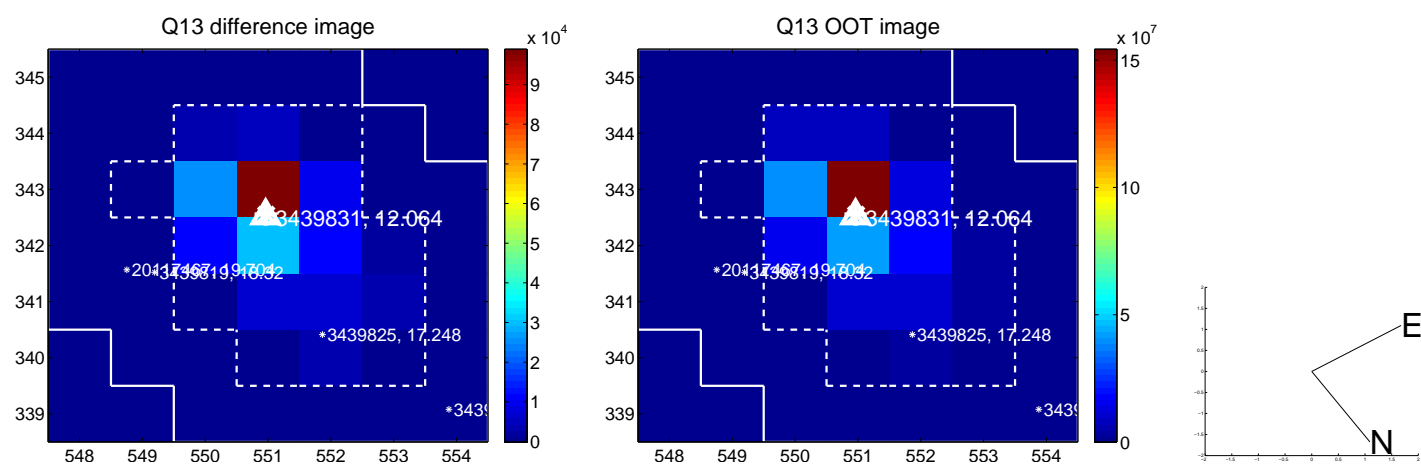
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



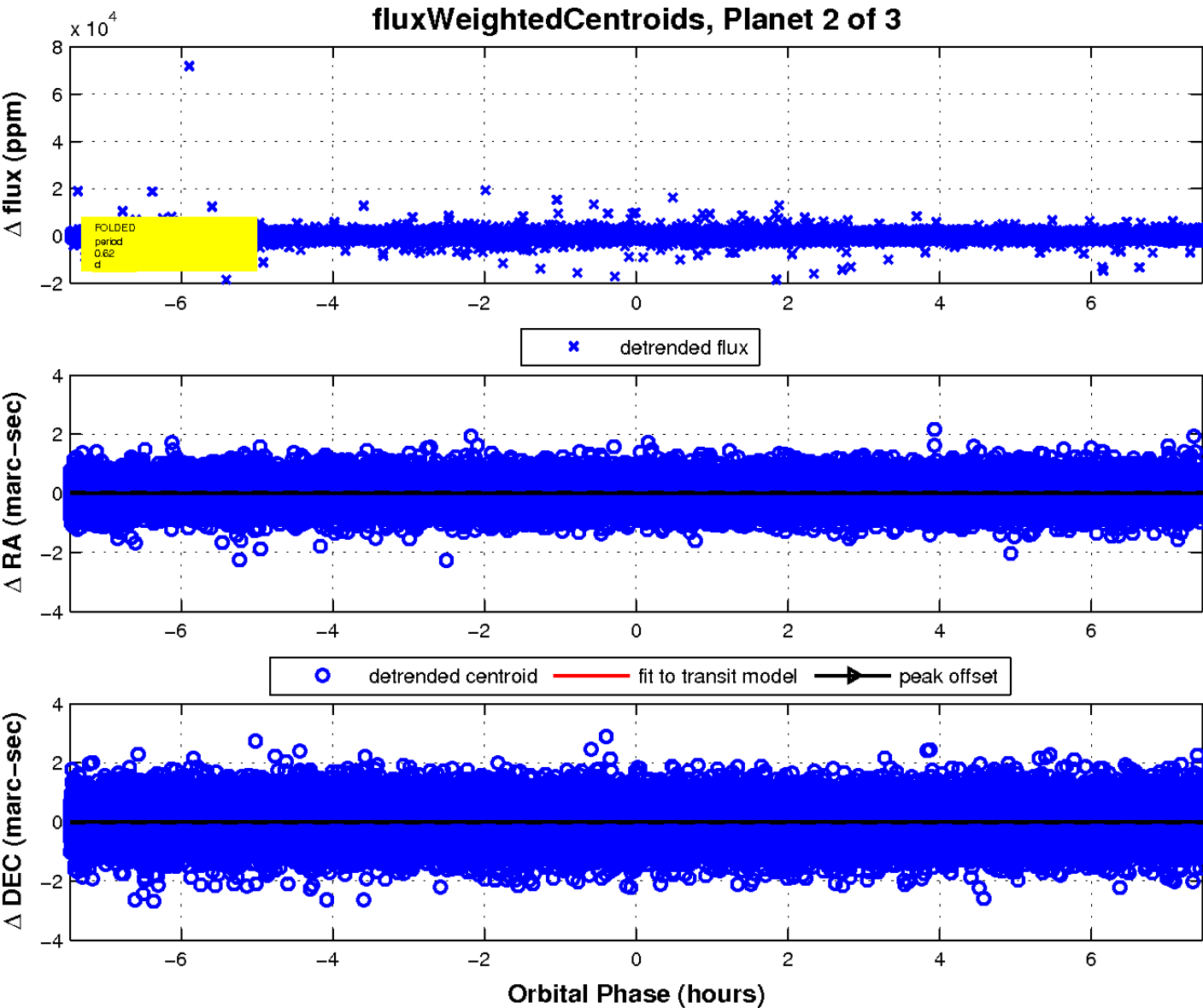
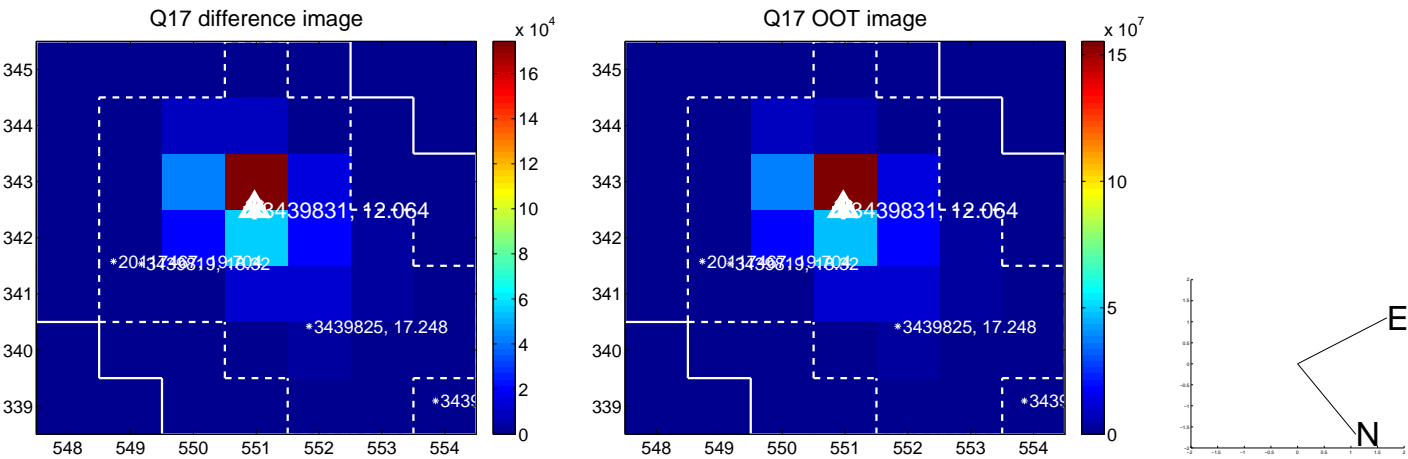
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

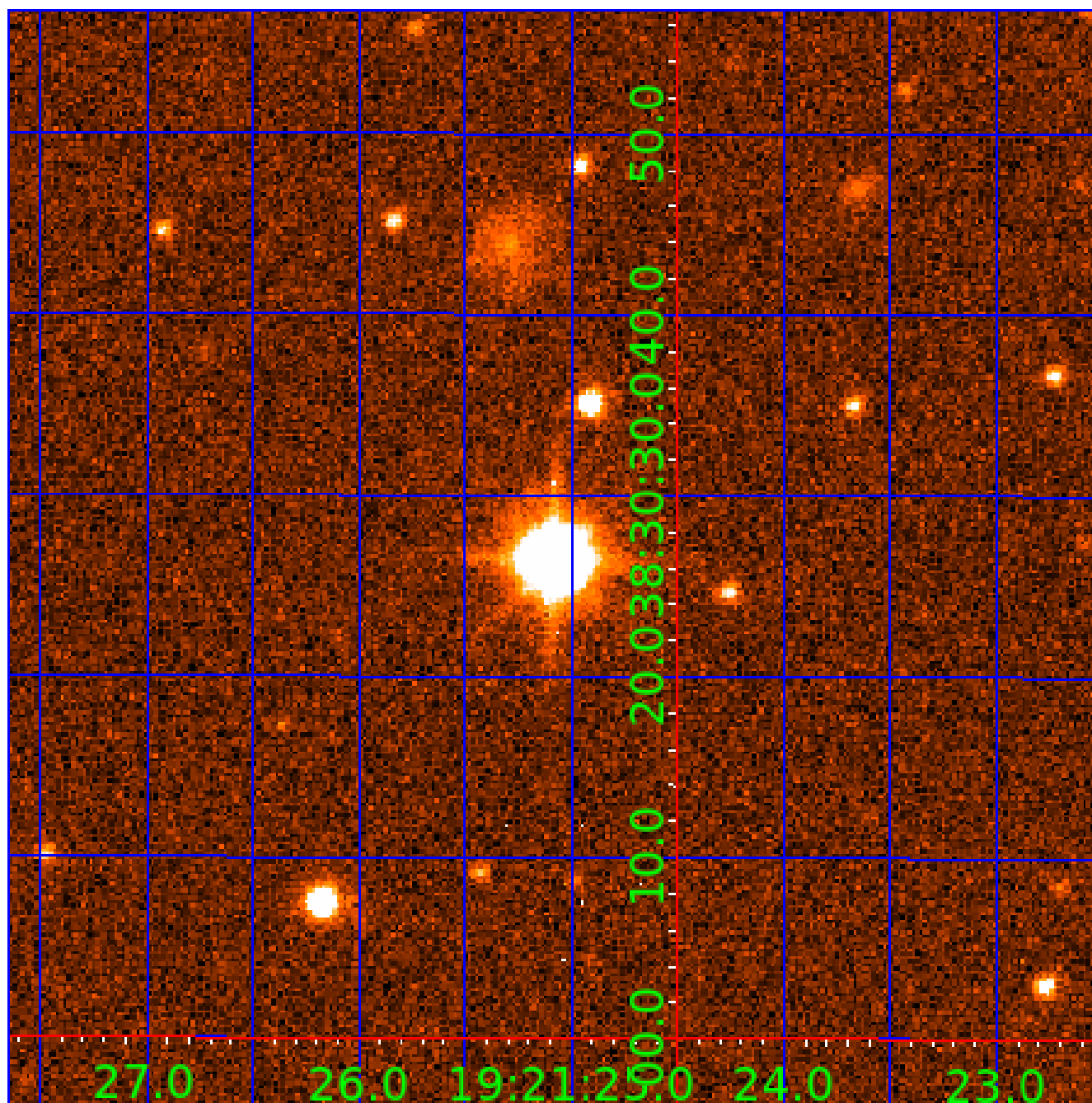


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003439831

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})
003439831-01	OBS	No	0.622497	131.672846	34.1	1.442	13.3	7.6	1.31	5959	0.90	11215.05
003439831-02	OBS	No	0.622121	132.078823	27.5	3.220	10.5	3.8	1.31	5959	0.70	11224.09
003439831-03	OBS	No	75.437751	191.667258	432.5	2.500	15.6	-1.0	1.31	5959	2.74	18.70

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003439831-01	OBS	FP	0.00	1	0	1	0	LPP_DV LPP_ALT MOD_NONUNIQ_ALT HALO_GHOST
003439831-02	OBS	FP	0.00	1	0	0	0	LPP_DV LPP_ALT
003439831-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE TRANS_GAPPED LPP_DV NO_FITS CENT_NOFITS

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

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

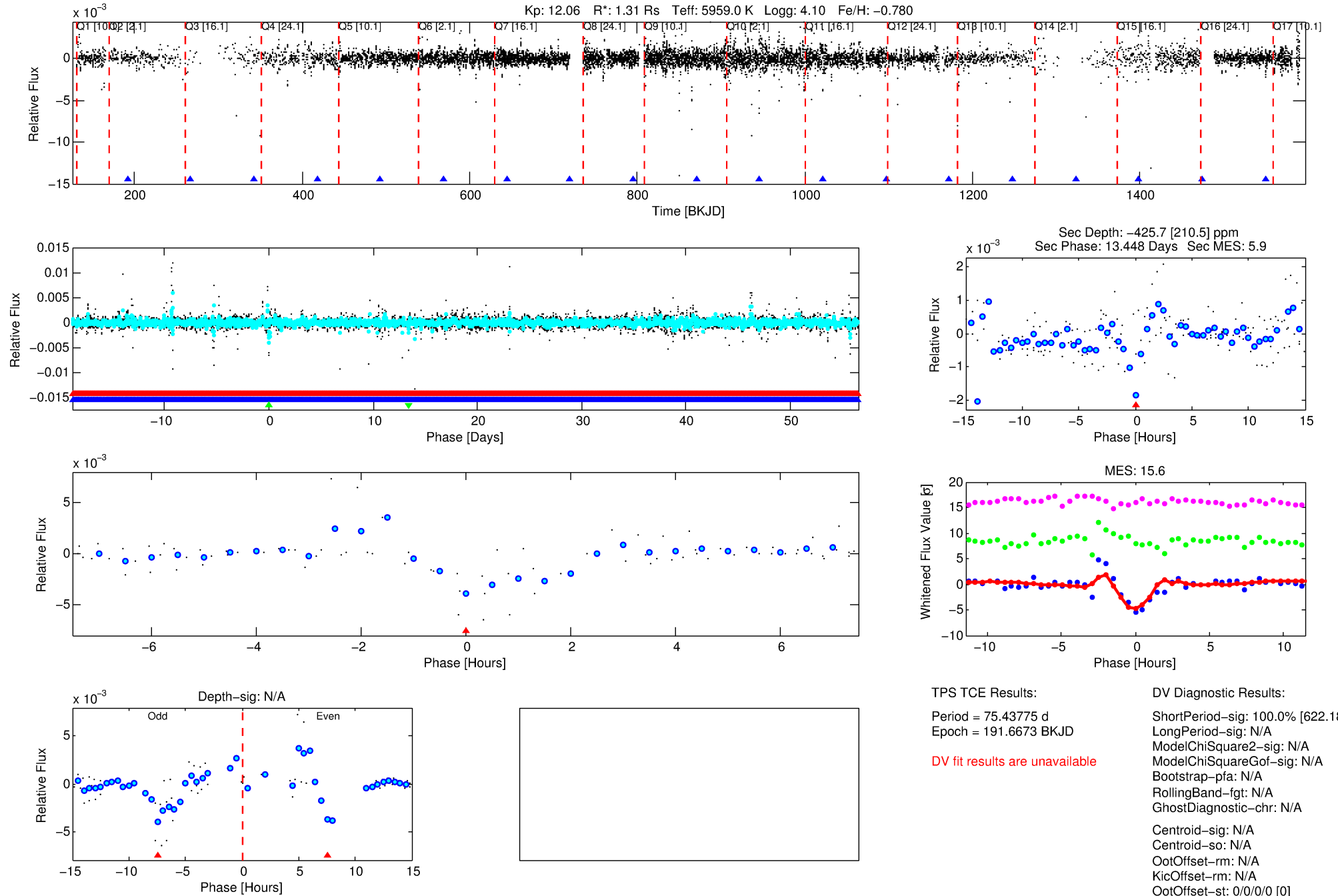
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003439831-03

No Significant Match Found

DV One-Page Summary

KIC: 3439831 Candidate: 3 of 3 Period: 75.438 d



TPS TCE Results:

Period = 75.43775 d
Epoch = 191.6673 BKJD

DV fit results are unavailable

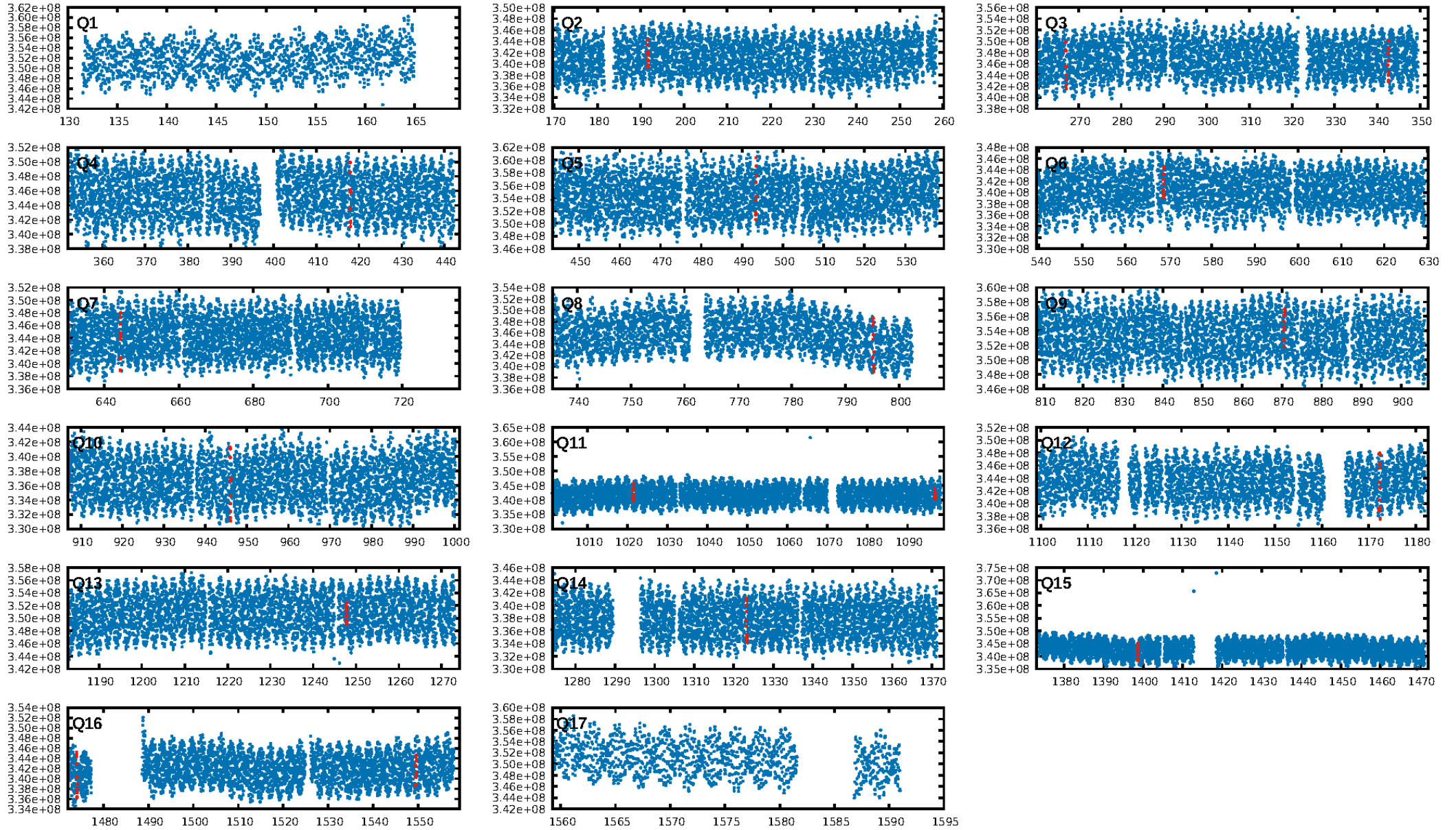
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [622.18 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: N/A
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: N/A

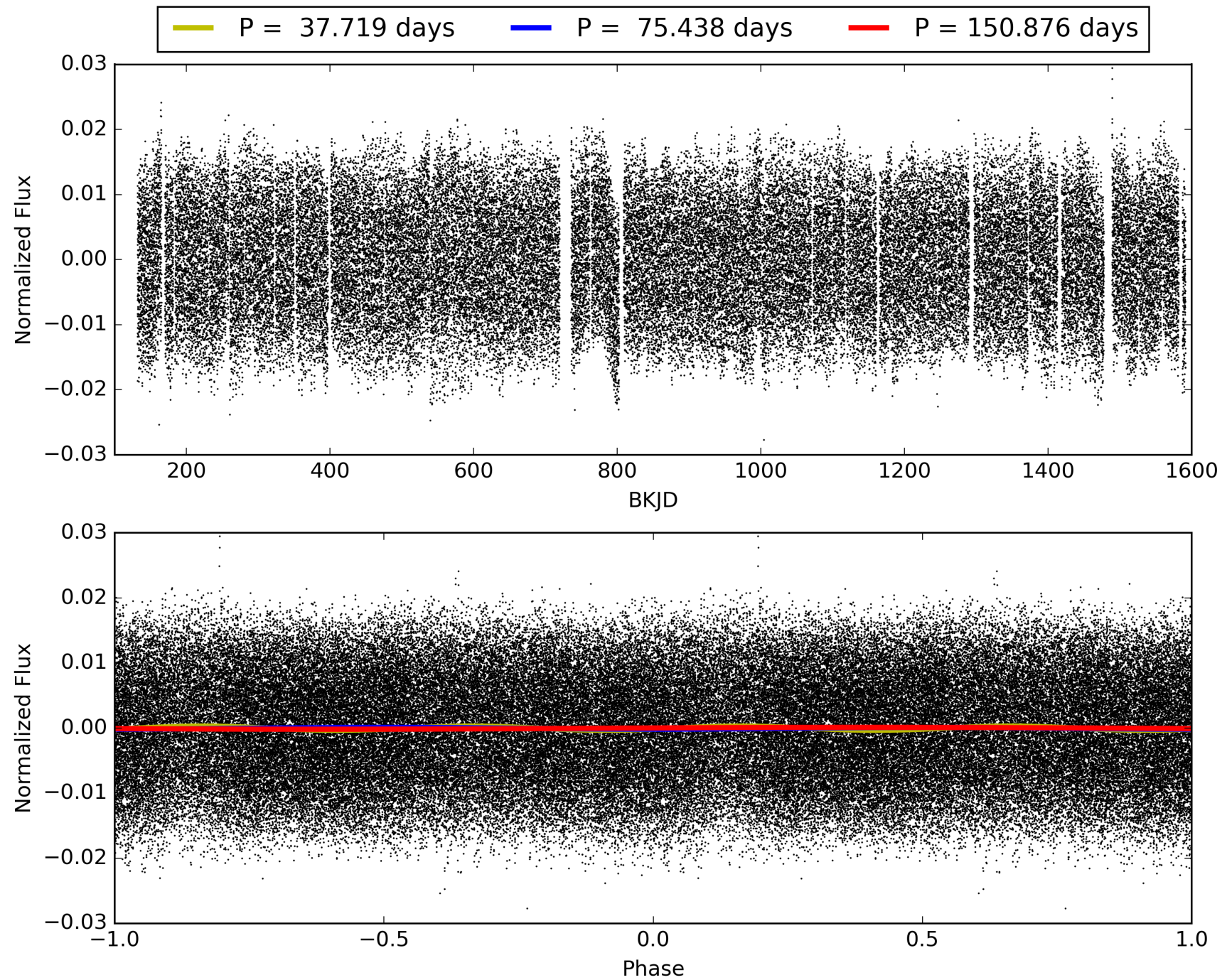
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 09:12:15 Z

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

TCE 003439831-03, PDC Light Curves

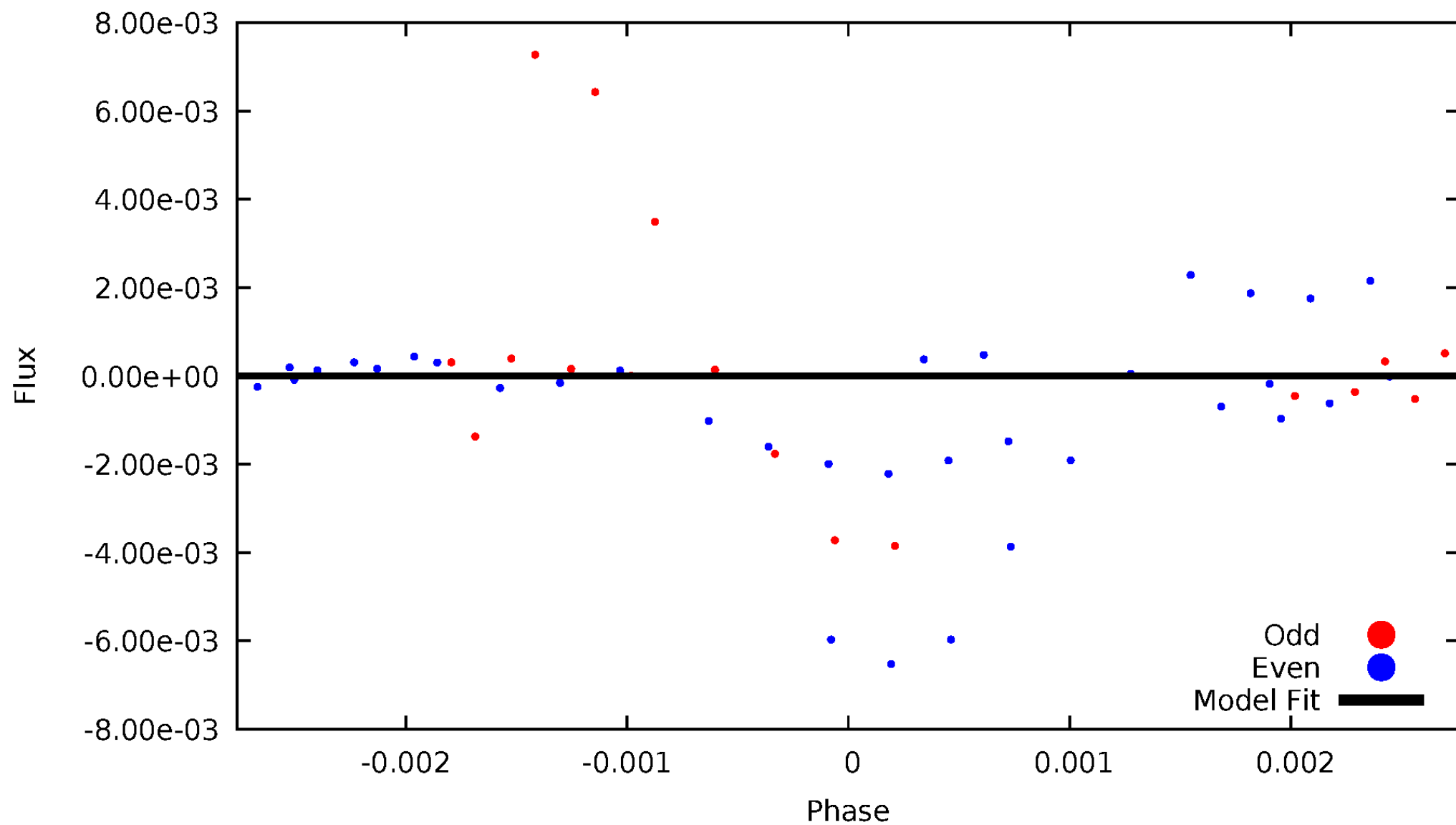


TCE 003439831-03



DV Odd/Even

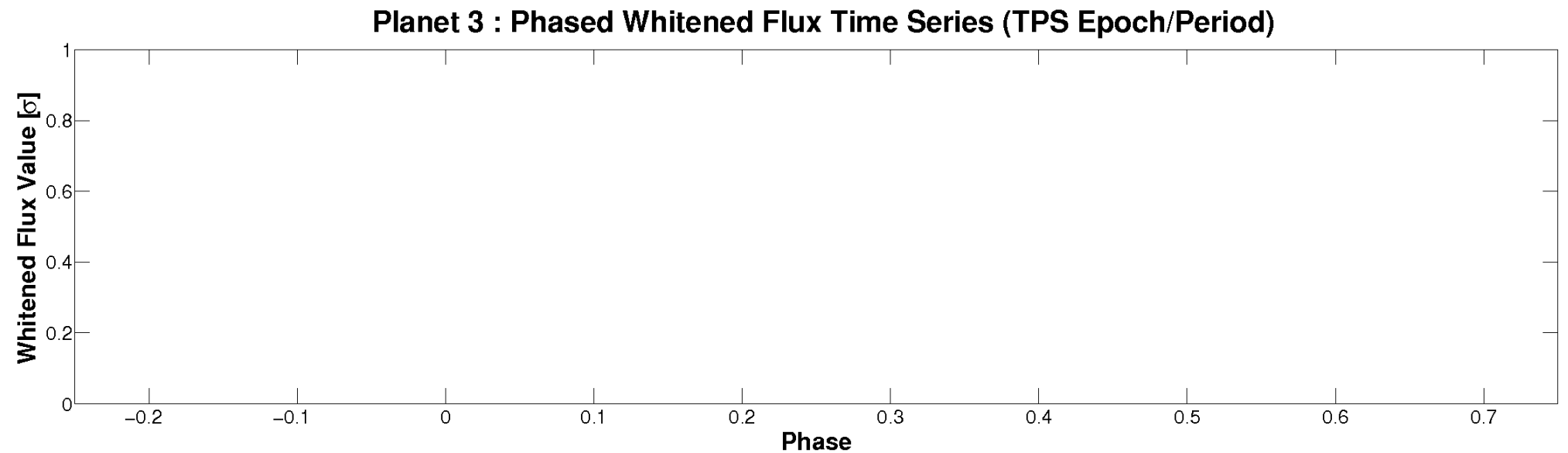
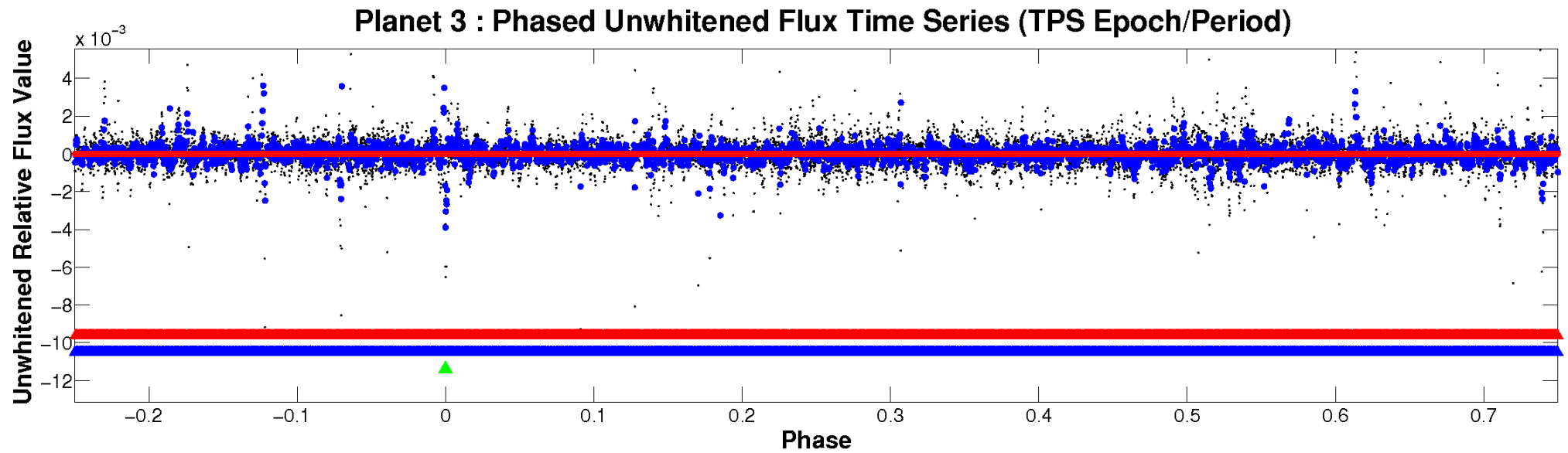
TCE 003439831-03



ALT Odd/Even

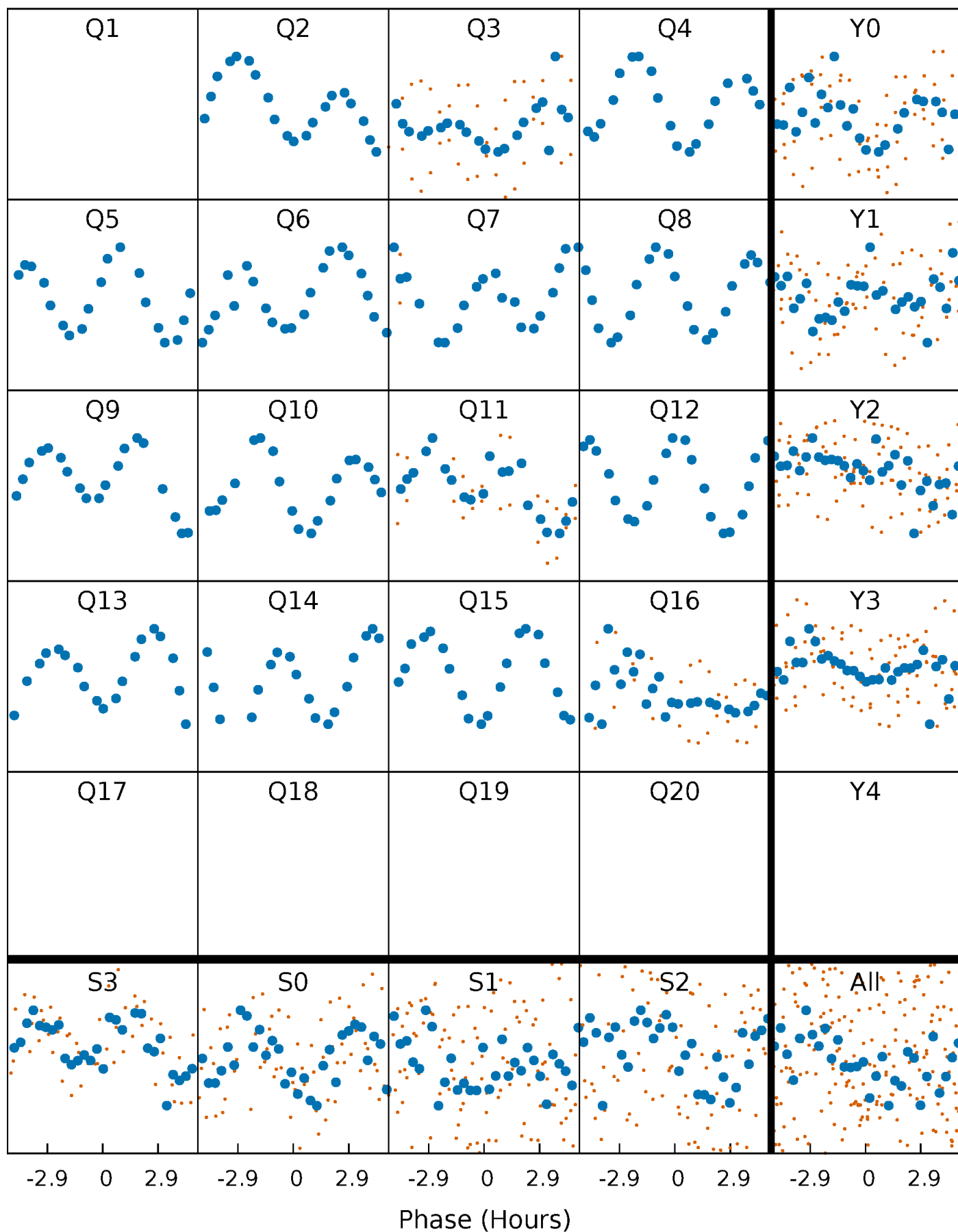
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve



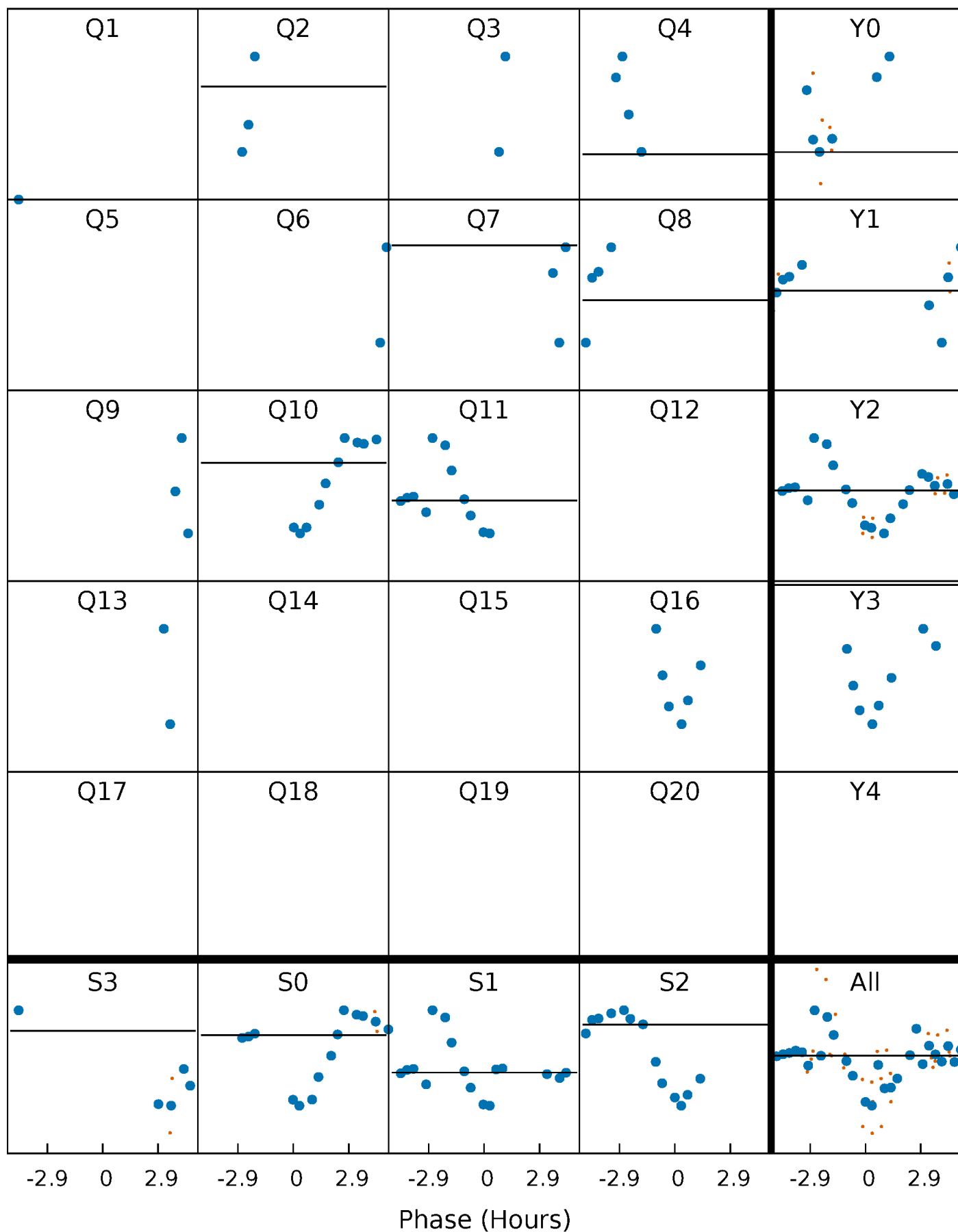
PDC Quarter-Phased Transit Curves

TCE 003439831-03 P= 75.437751 Days $T_0=191.667258$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 003439831-03 P= 75.437751 Days $T_0=191.667258$ (BKJD)

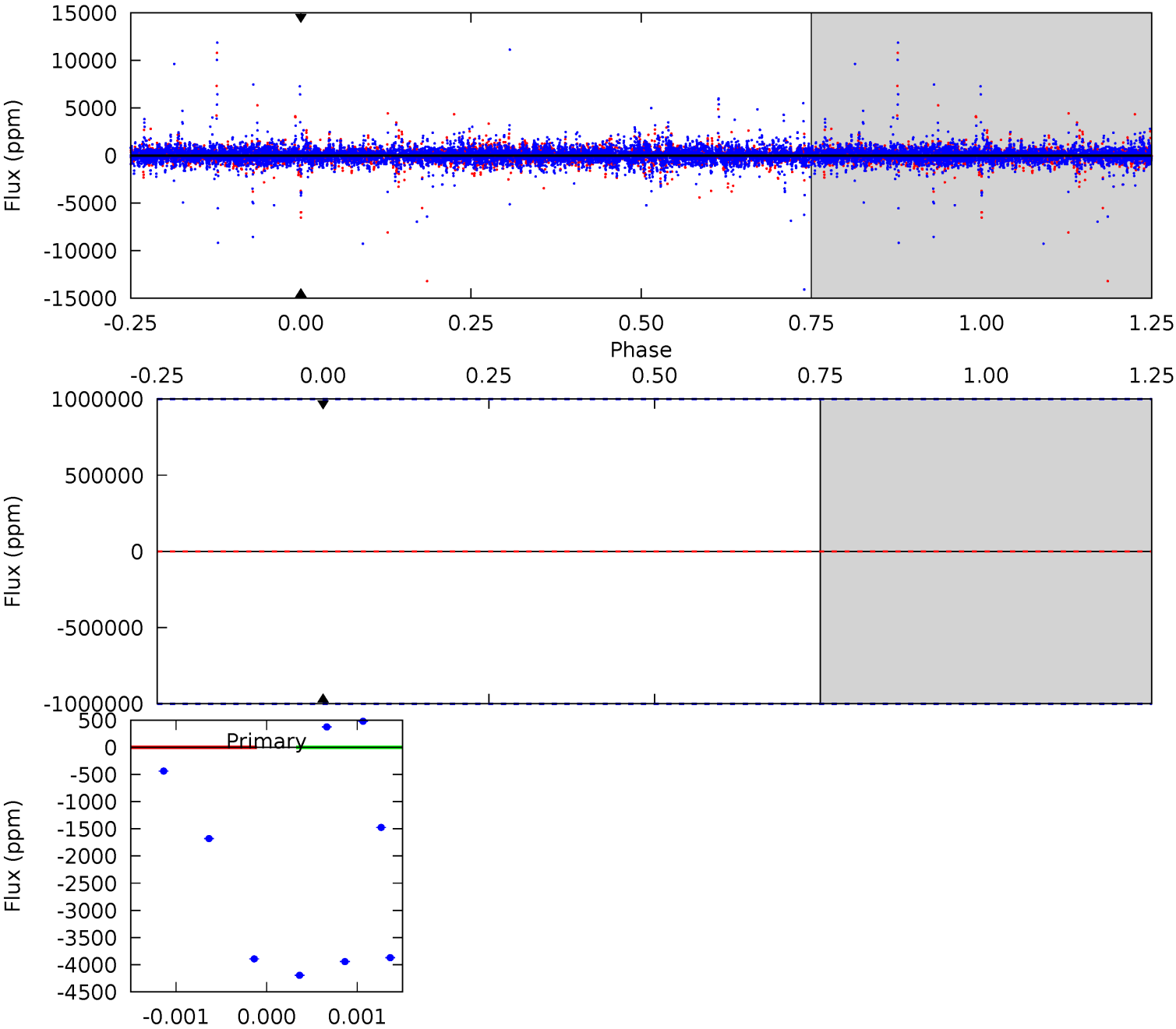


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

003439831-03, P = 75.437751 Days, E = 116.229507 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

This plot does not exist for this TCE.

Stellar Parameters For KIC 003439831

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5959^{+160}_{-160}	$4.098^{+0.455}_{-0.195}$	$-0.780^{+0.300}_{-0.300}$	$1.314^{+0.421}_{-0.514}$	$0.789^{+0.092}_{-0.050}$	$0.490^{+1.717}_{-0.278}$
	+3%/-3%	+11%/-5%	+38%/-38%	+32%/-39%	+12%/-6%	+350%/-57%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 003439831-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$9.99^{+10.37}_{-6.74}$	728^{+66}_{-85}	4391^{+20061}_{-23581}	$705^{+122653}_{-84562}$
Alt.	N/A	N/A	N/A	N/A	N/A

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 $A_{obs} \gg 1.0$

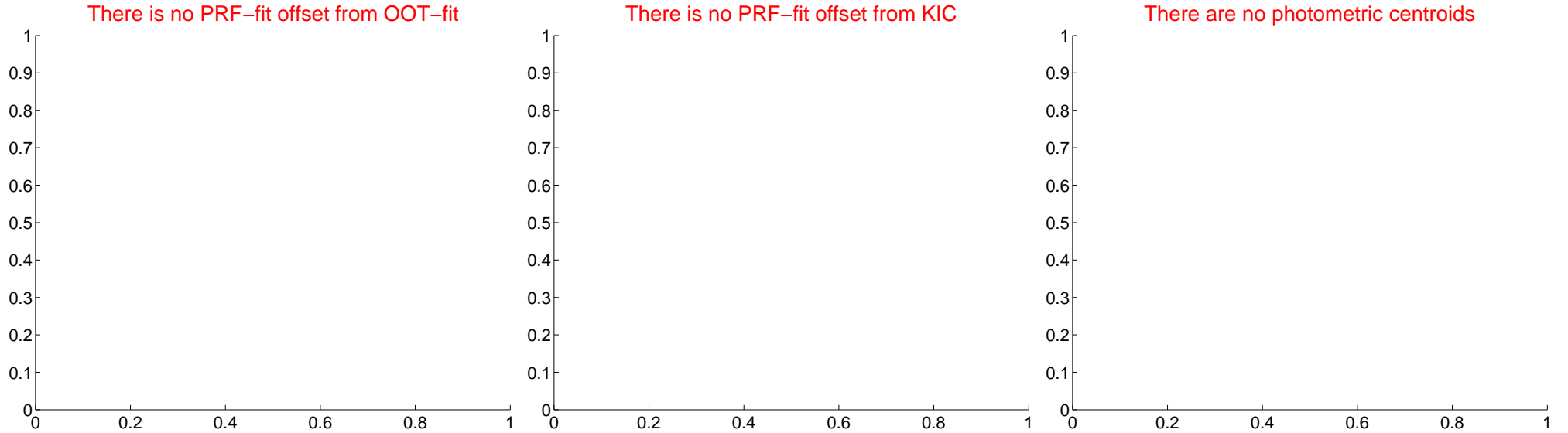
DV Centroid Data

Supplemental centroid analysis for 003439831-03. Kepler magnitude: 12.06. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

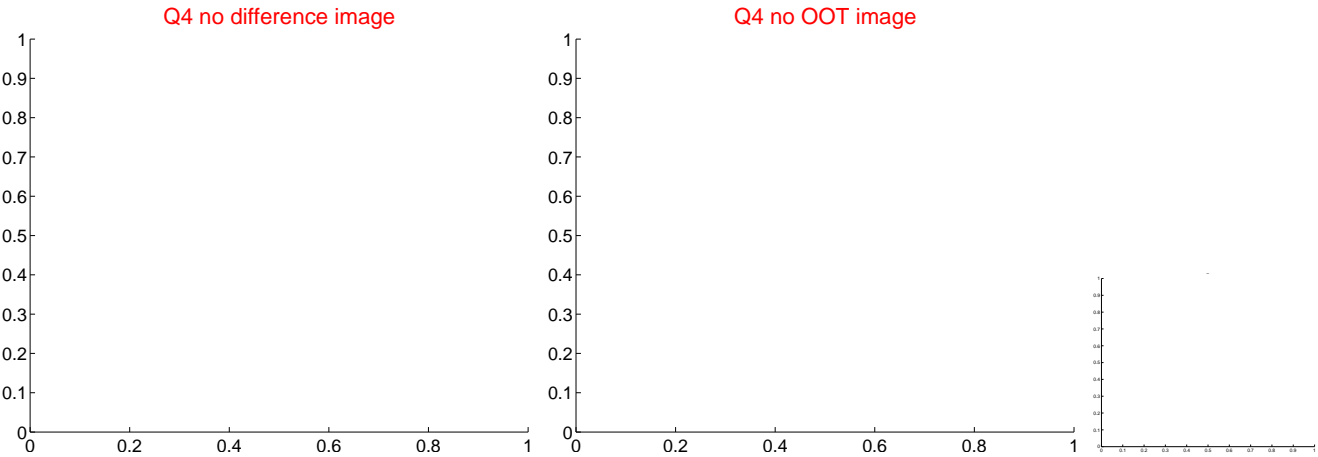
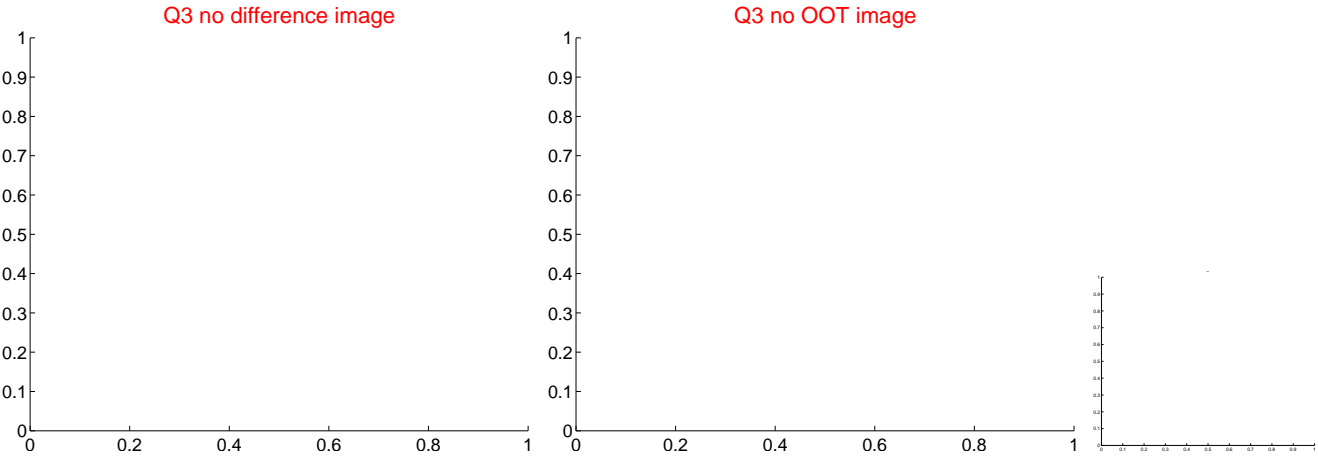
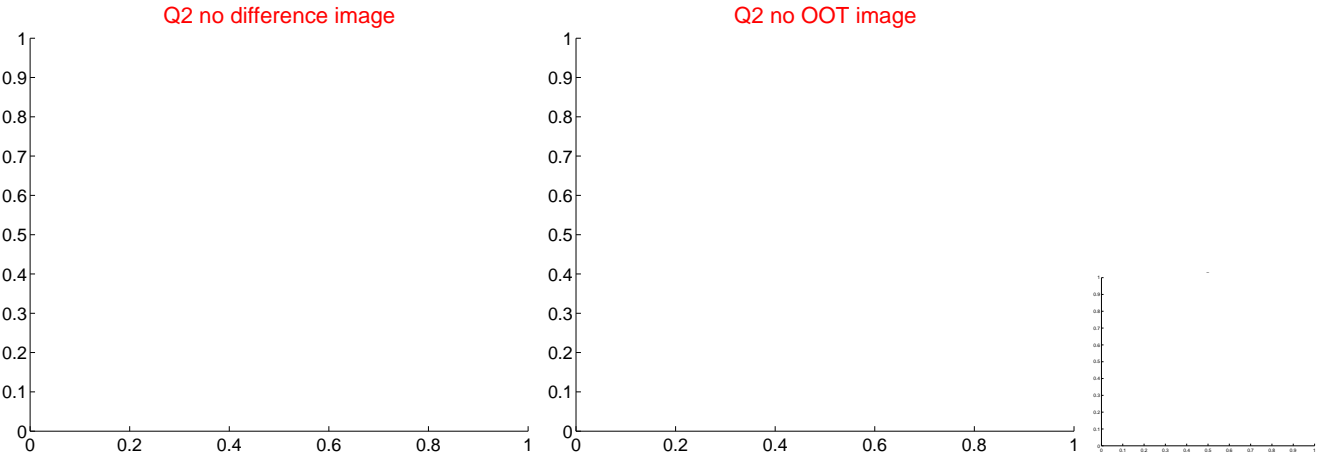
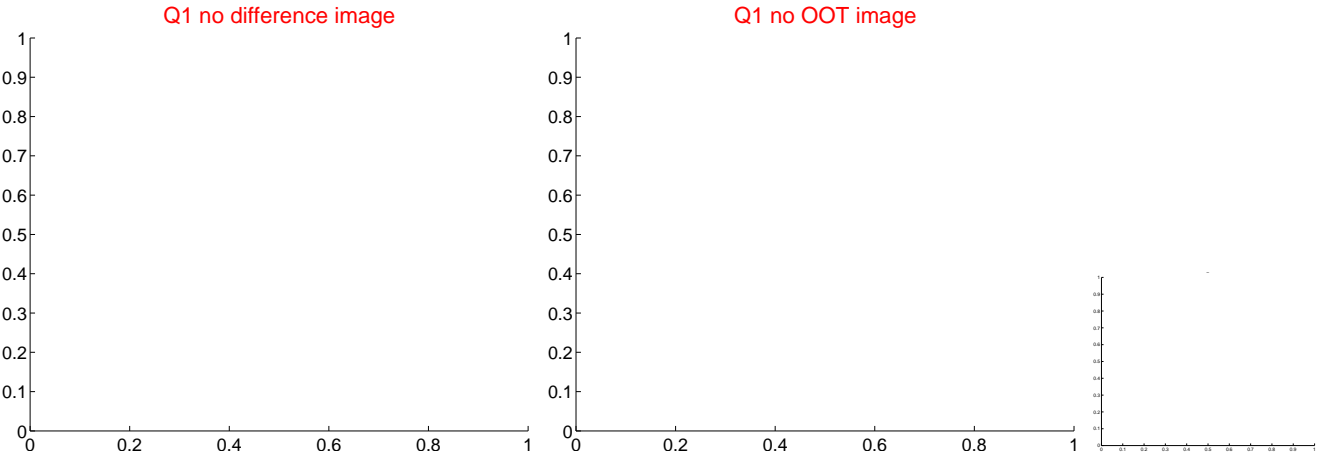
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	—	—	—	—

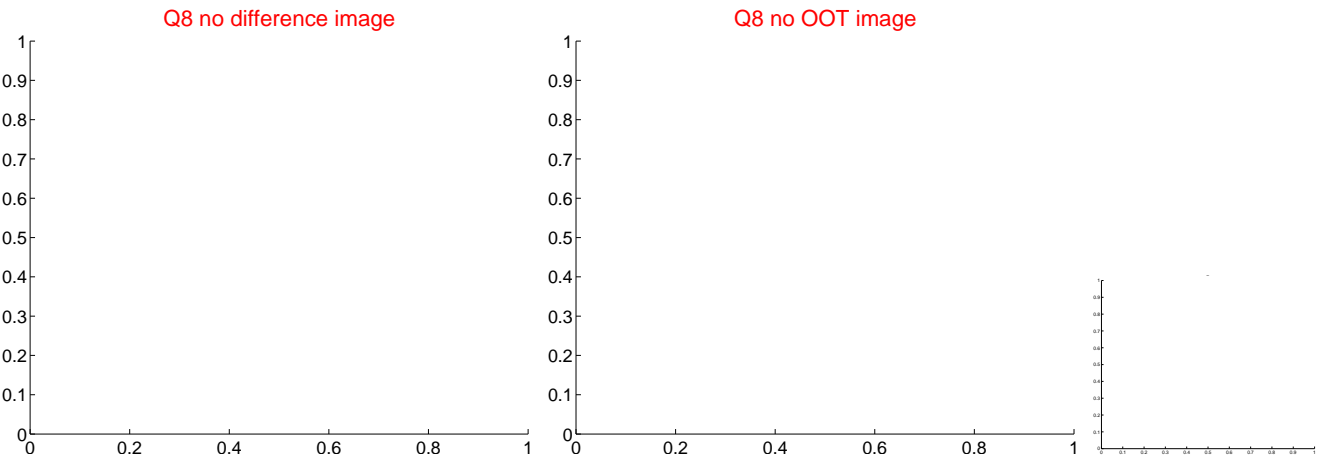
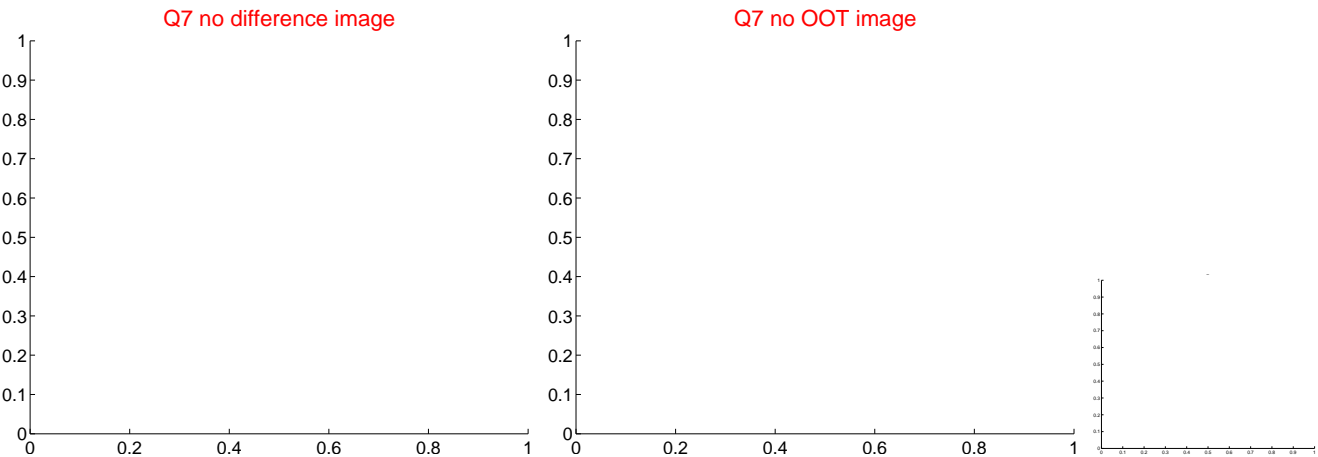
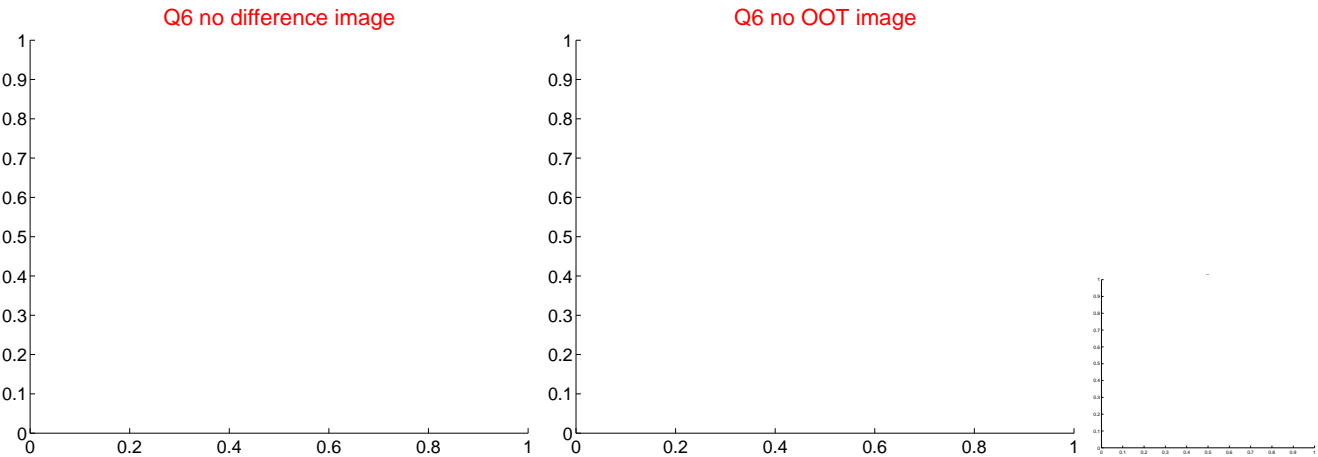
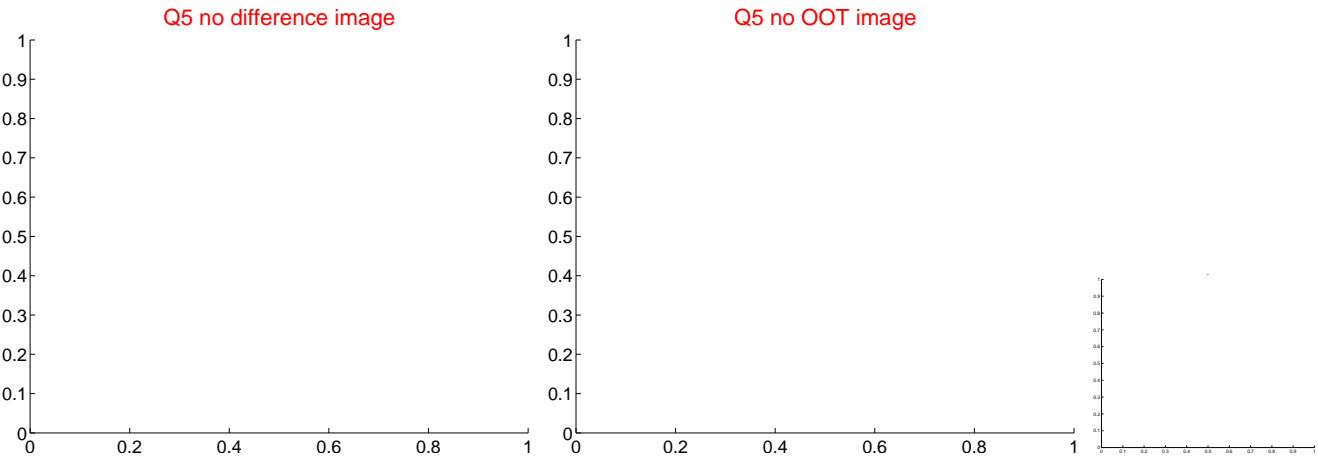


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



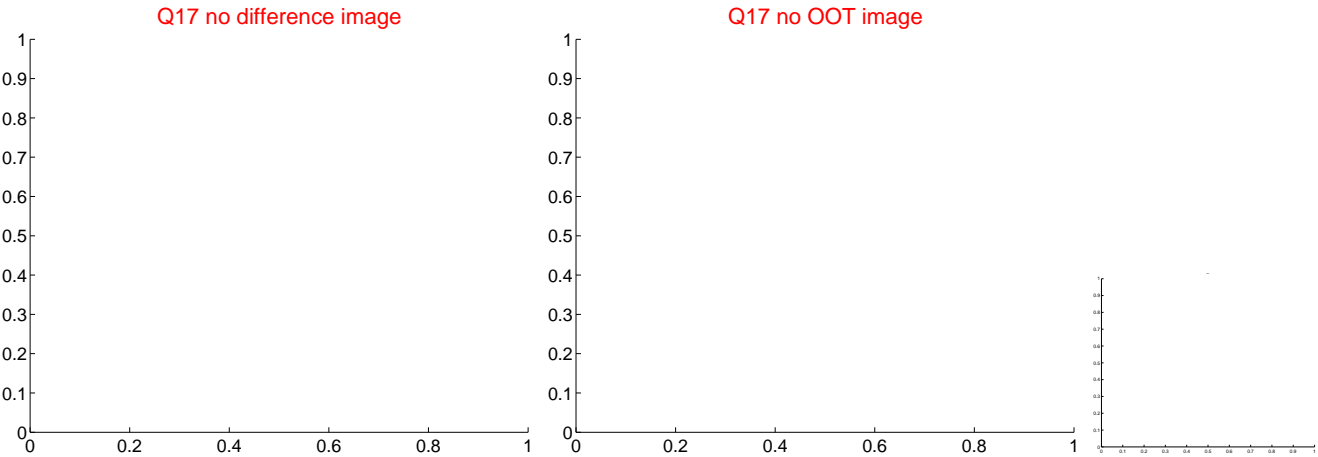
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



folded centroid time series figure for this object.

UKIRT Image

Declination

