

KIC 005632912

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})
005632912-01	OBS	No	0.822959	131.628435	119.7	2.700	15.9	17.6	3.99	7596	5.09	106035.37
005632912-02	OBS	No	0.822948	132.046789	113.7	2.480	17.4	18.0	3.99	7596	4.96	106037.36
005632912-03	OBS	No	0.579409	131.513277	154.2	2.000	12.2	-1.0	3.99	7596	5.01	169293.88

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005632912-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005632912-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
005632912-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—CENT_NOFITS

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

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

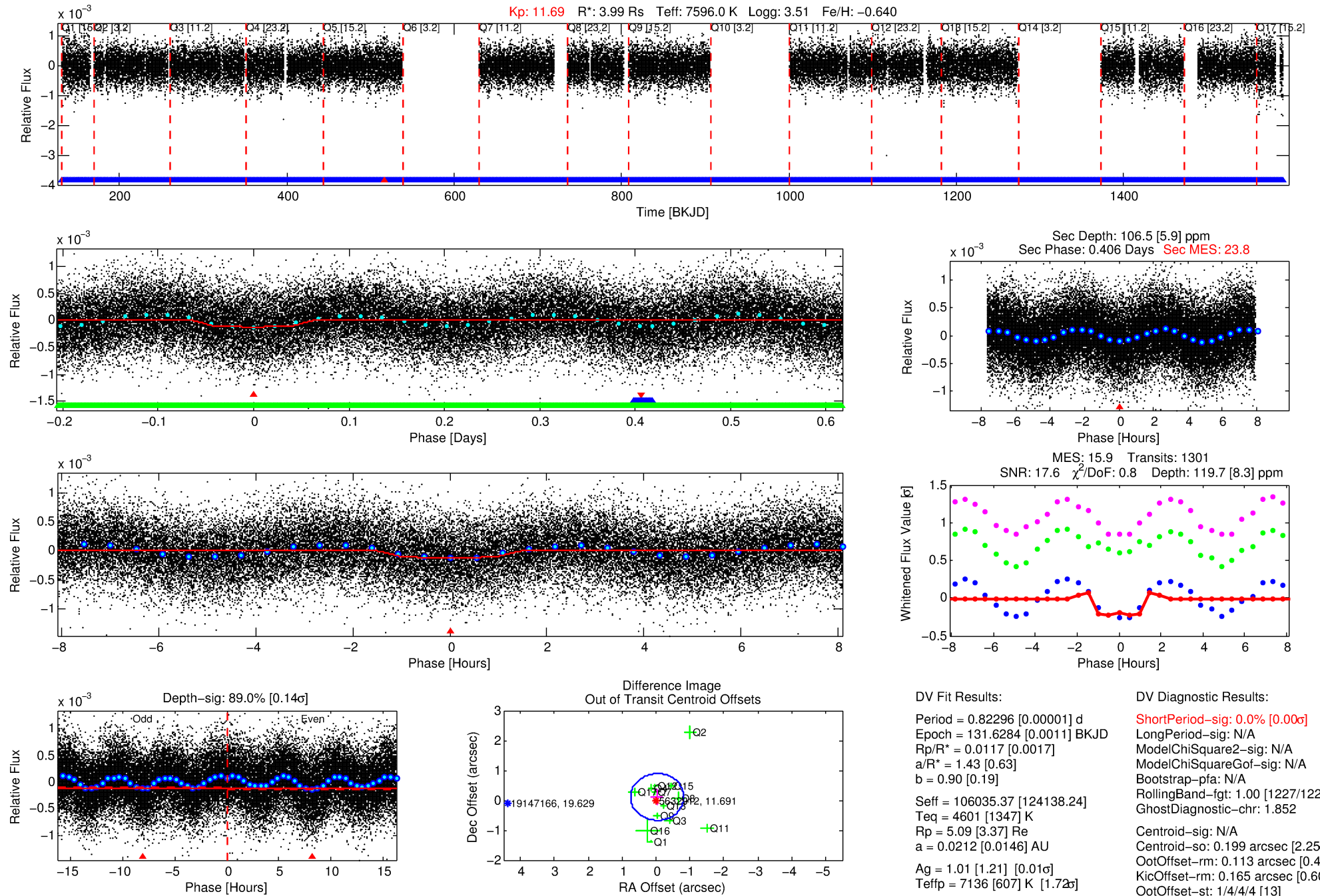
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005632912-01

No Significant Match Found

DV One-Page Summary

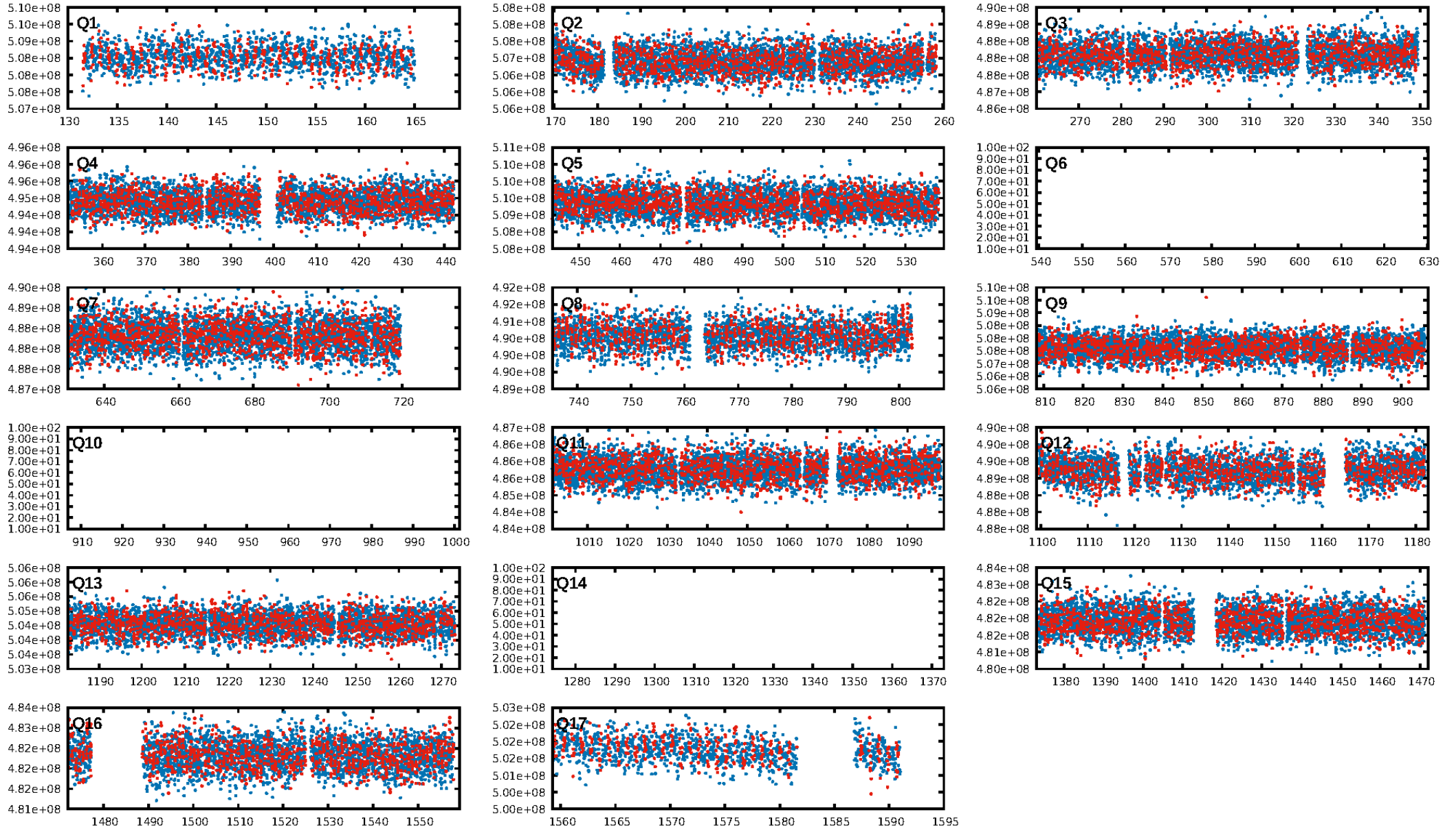
KIC: 5632912 Candidate: 1 of 3 Period: 0.823 d



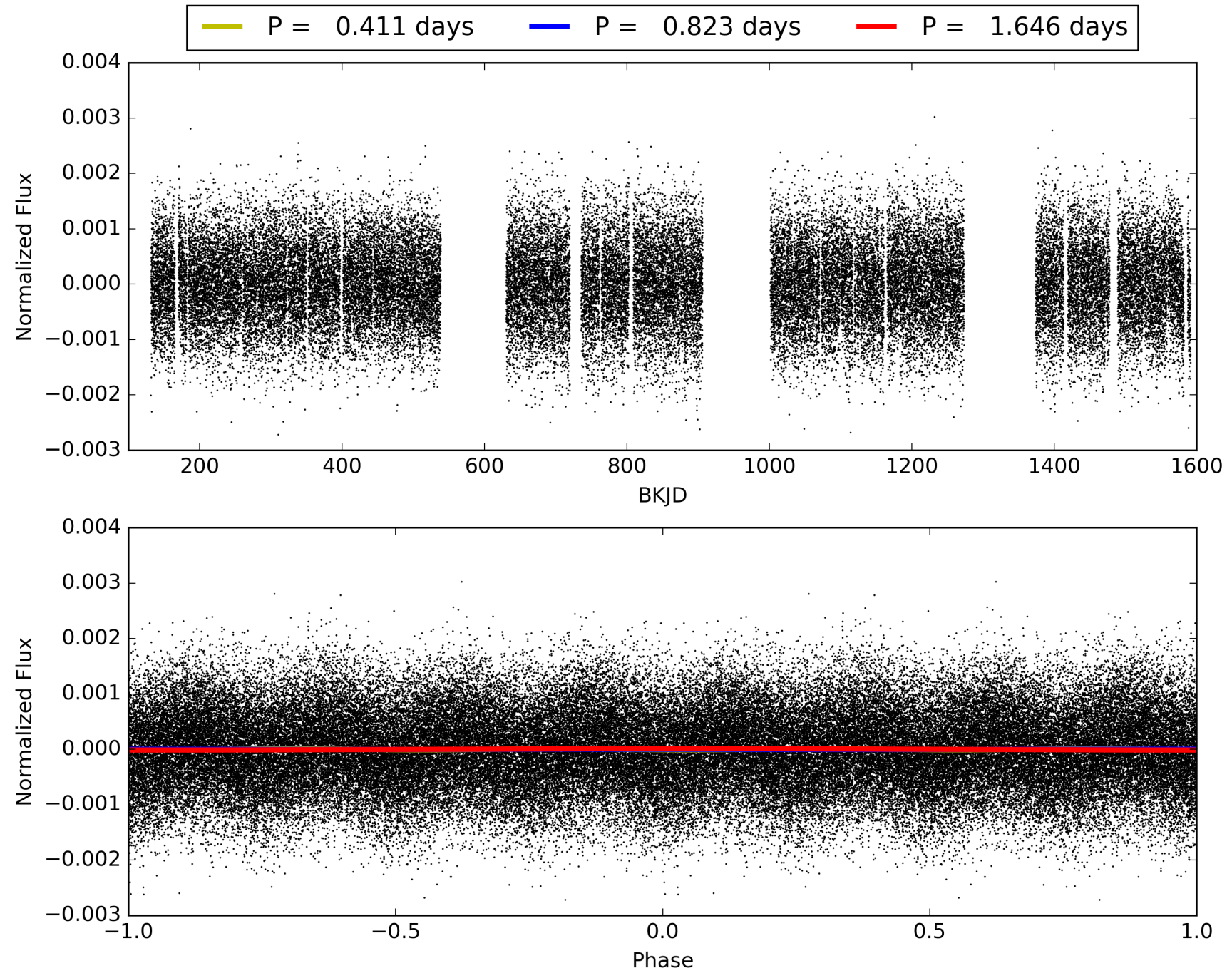
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:40:30 Z

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

TCE 005632912-01, PDC Light Curves

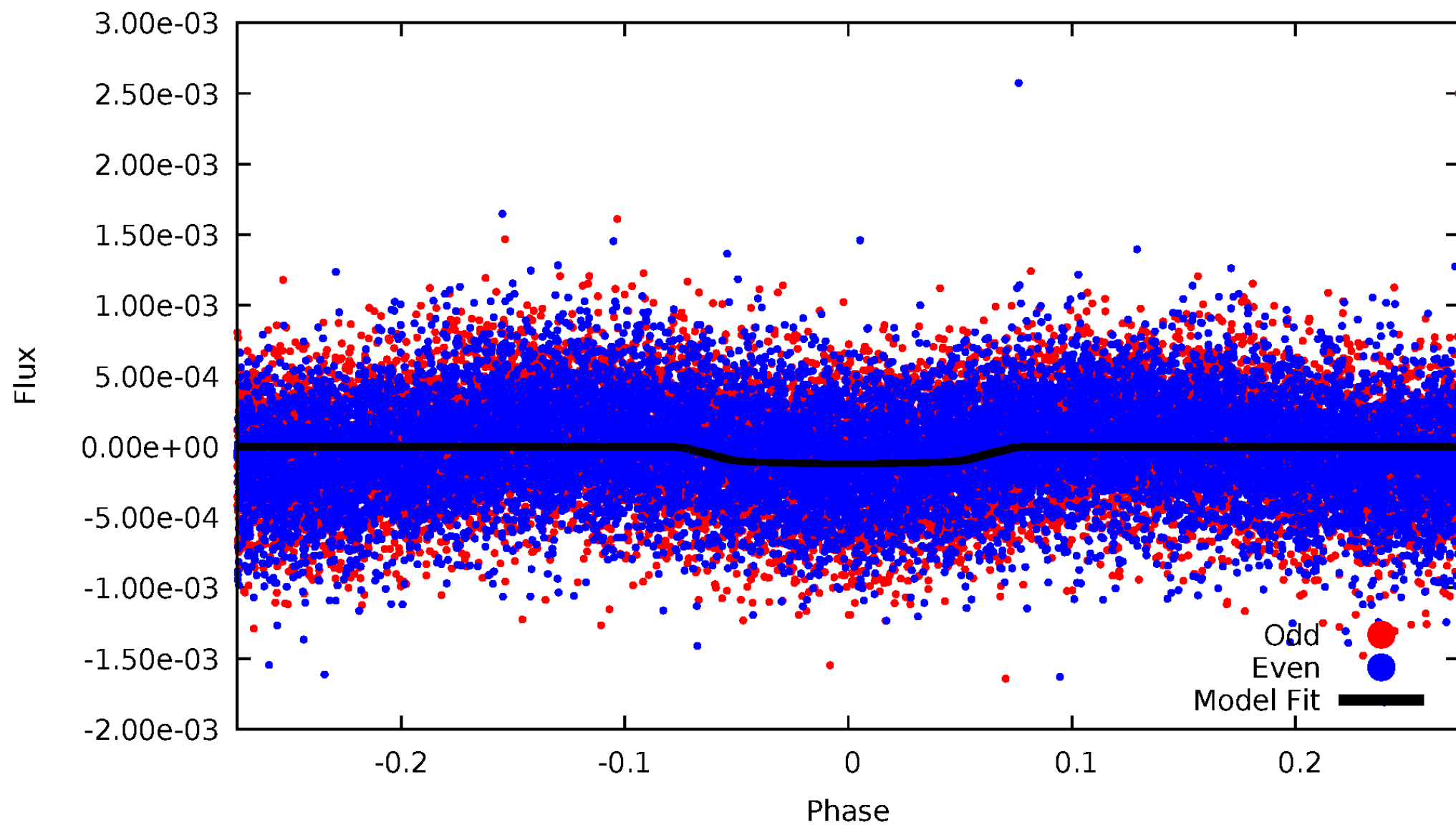


TCE 005632912-01



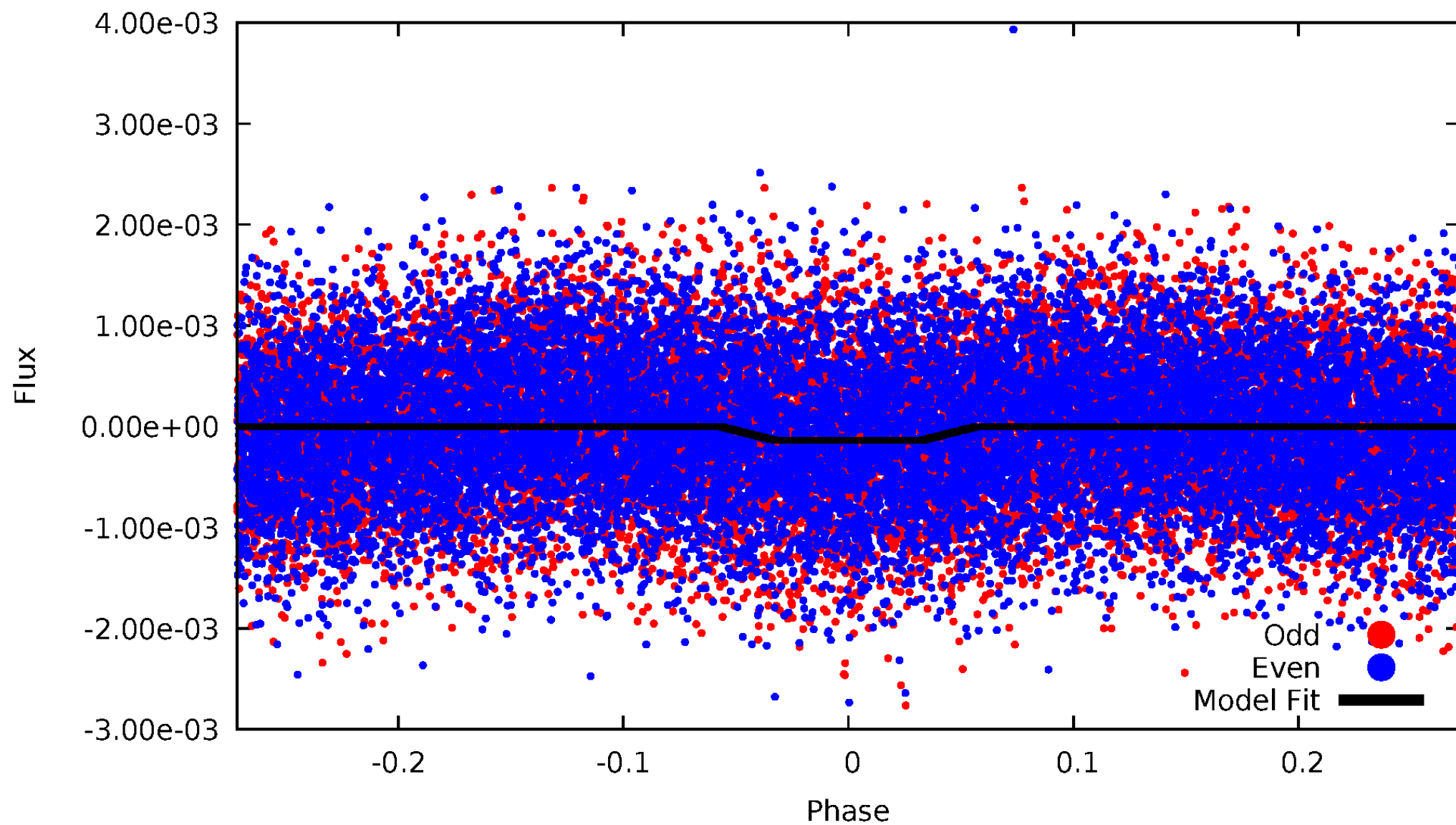
DV Odd/Even

TCE 005632912-01



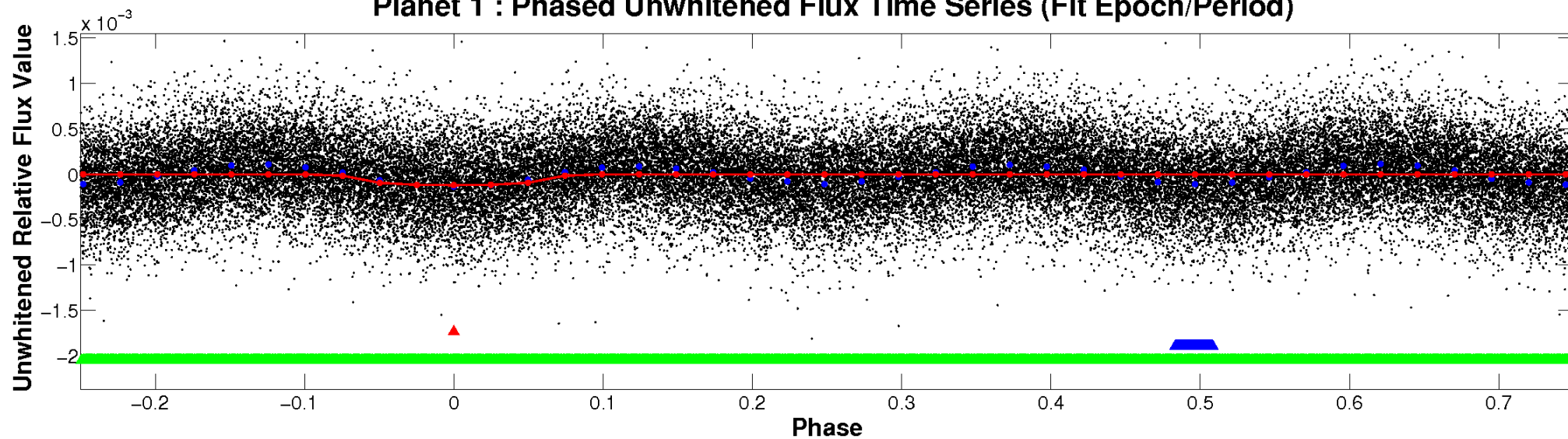
ALT Odd/Even

TCE 005632912-01

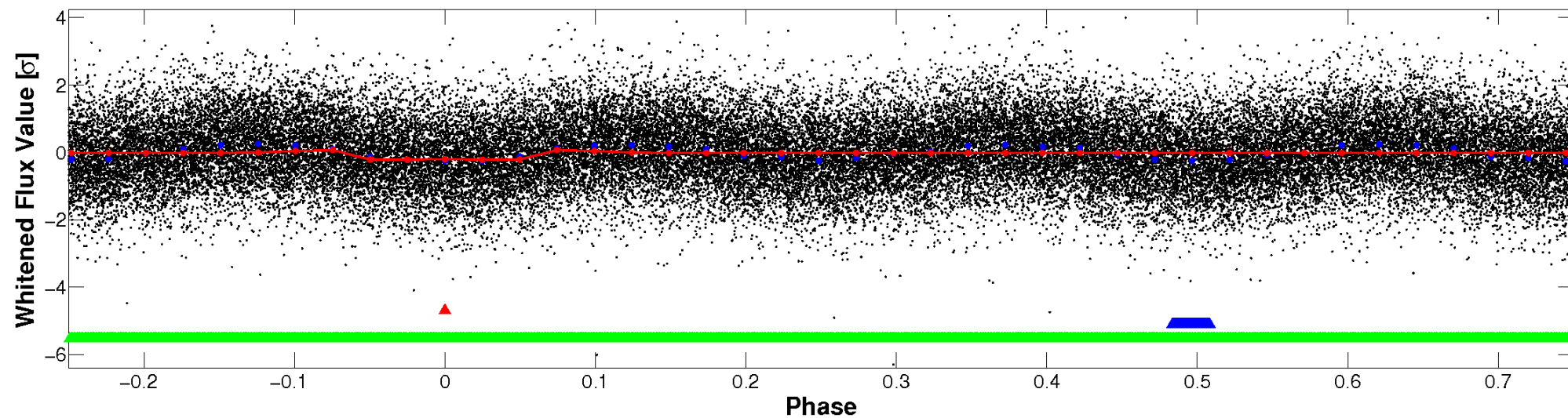


Non-Whitened Vs. Whitened Light Curve

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

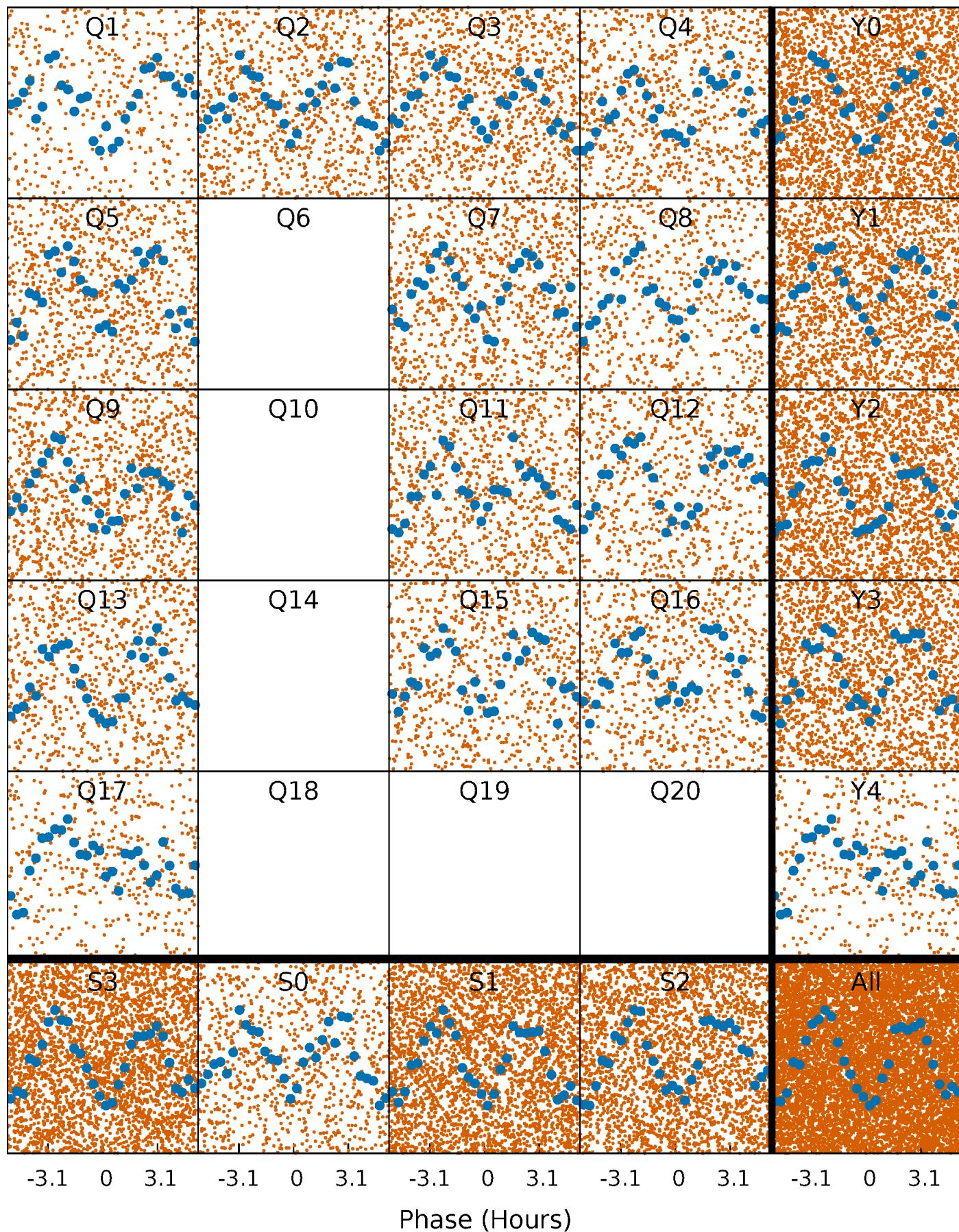


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



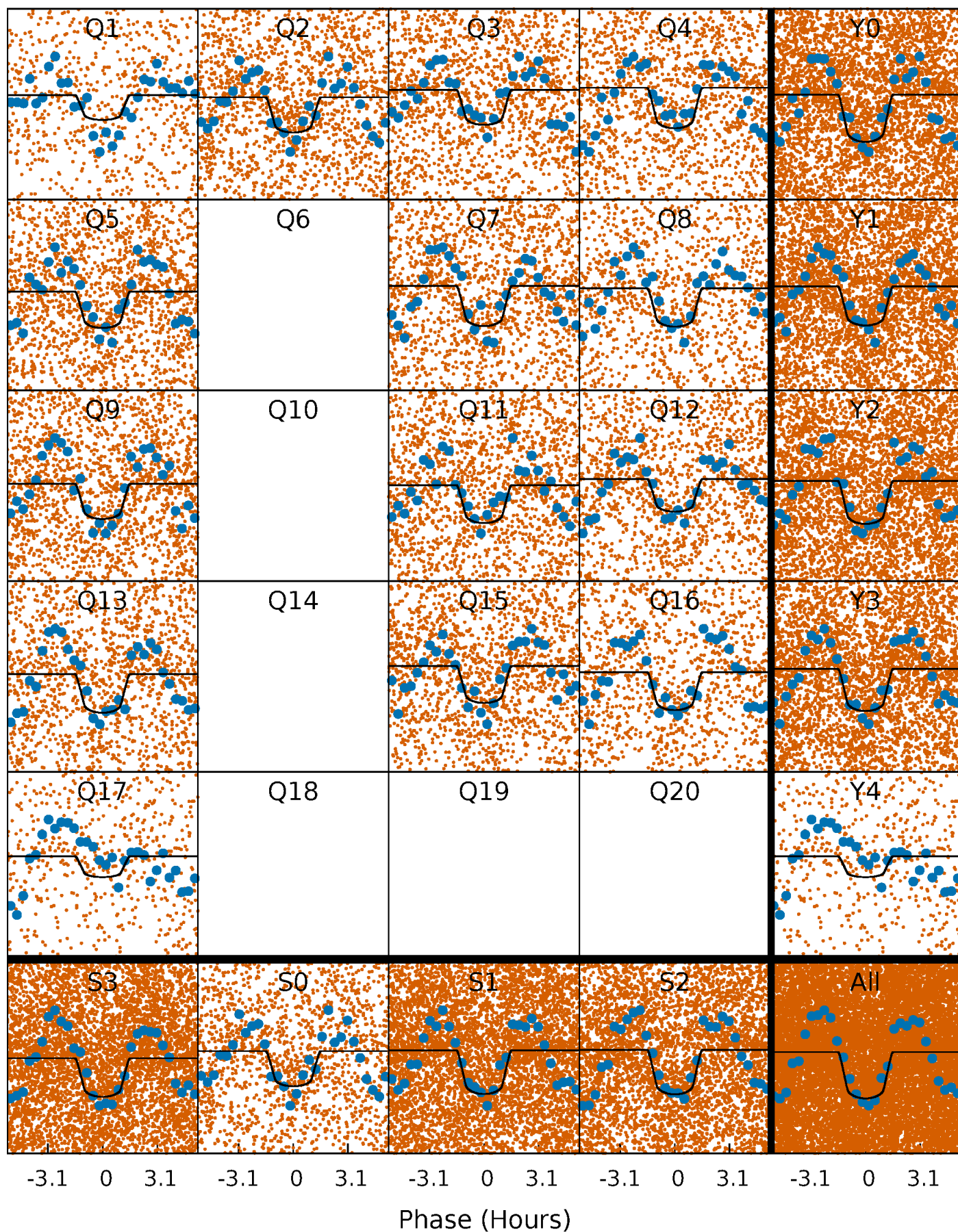
PDC Quarter-Phased Transit Curves

TCE 005632912-01 P= 0.822959 Days $T_0=131.628435$ (BKJD)



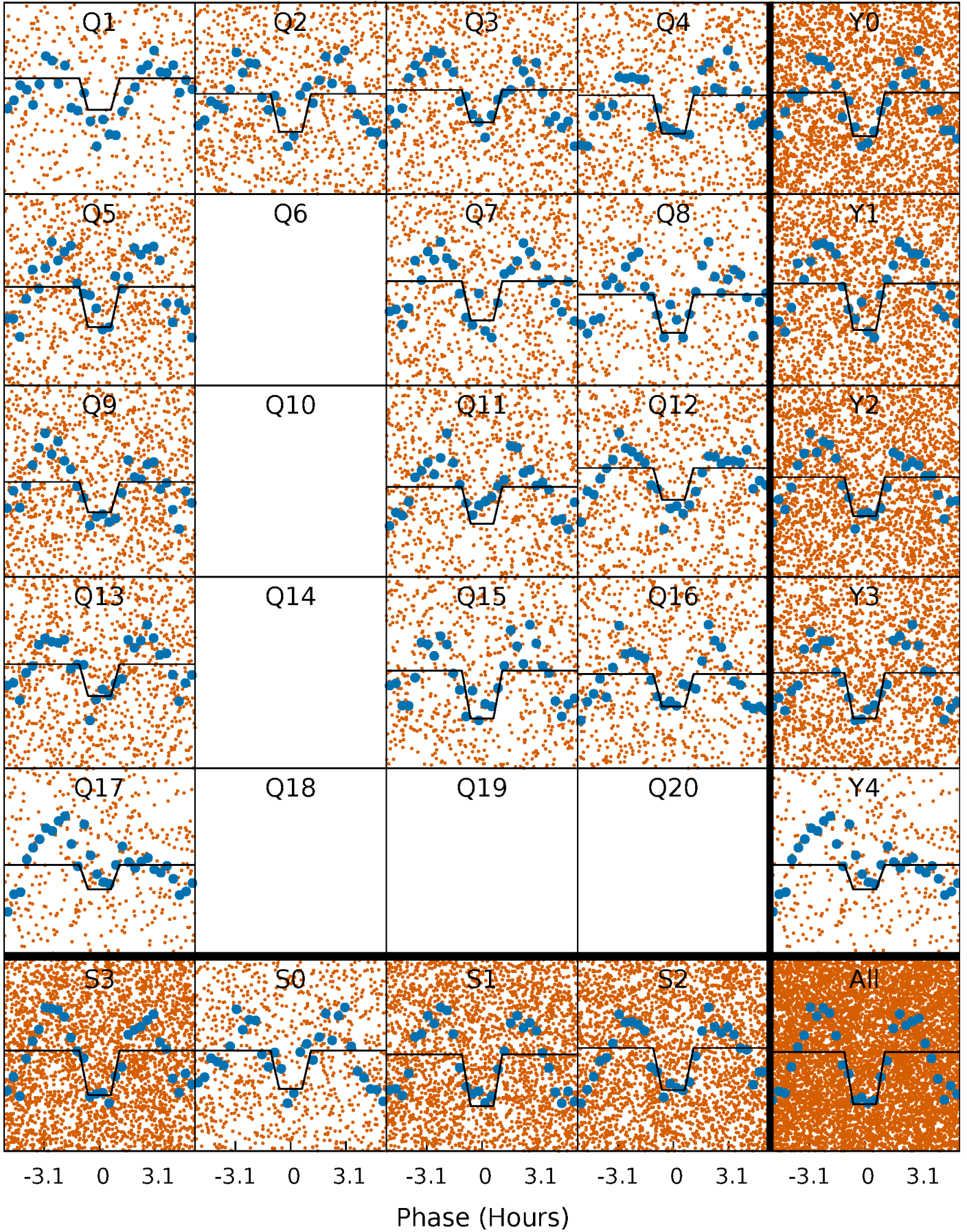
DV Quarter-Phased Transit Curves

TCE 005632912-01 P= 0.822959 Days $T_0=131.628435$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

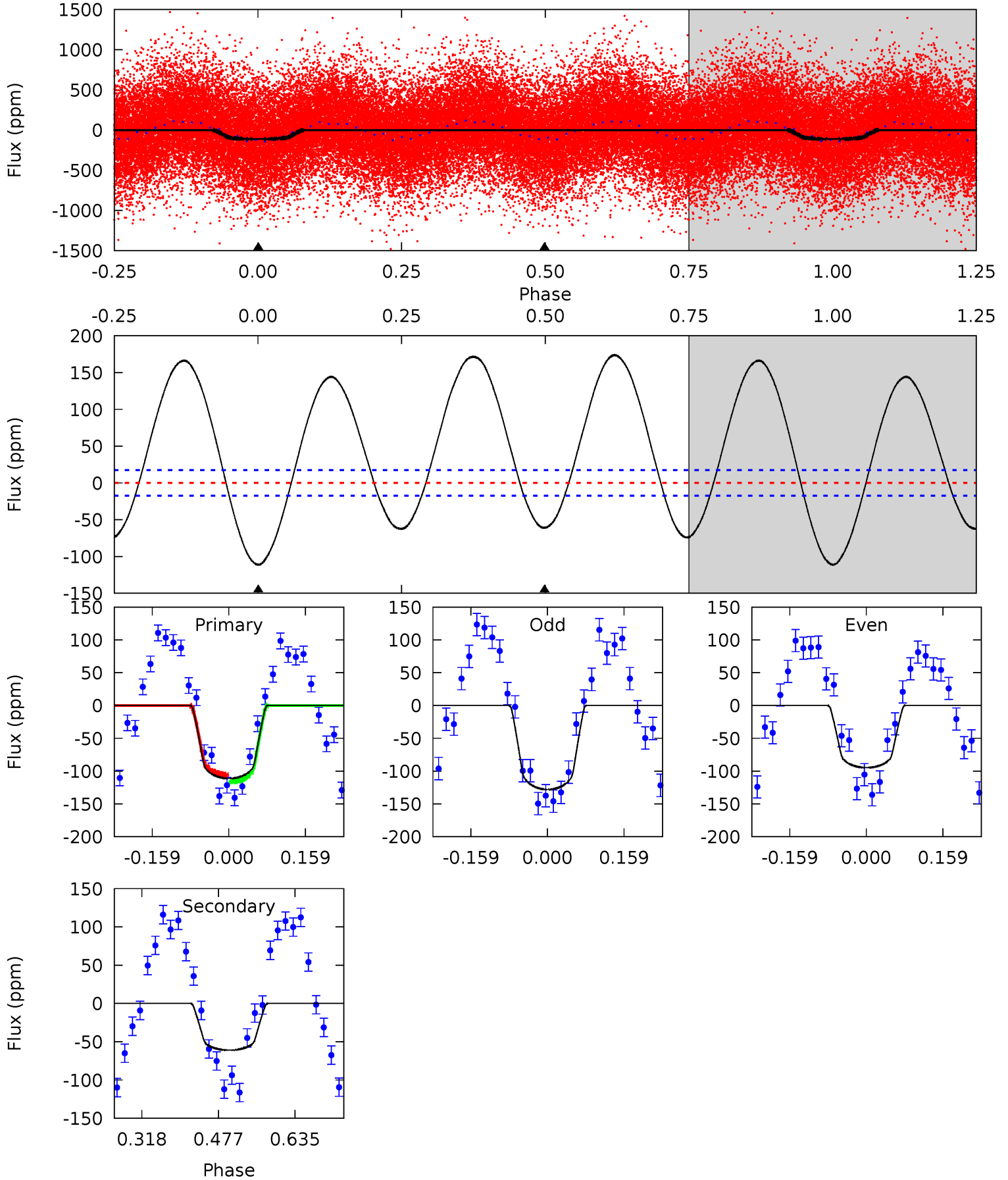
TCE 005632912-01 P= 0.822962 Days $T_0=131.628401$ (BKJD)



DV Model-Shift Uniqueness Test

005632912-01, P = 0.822959 Days, E = 130.805476 Days

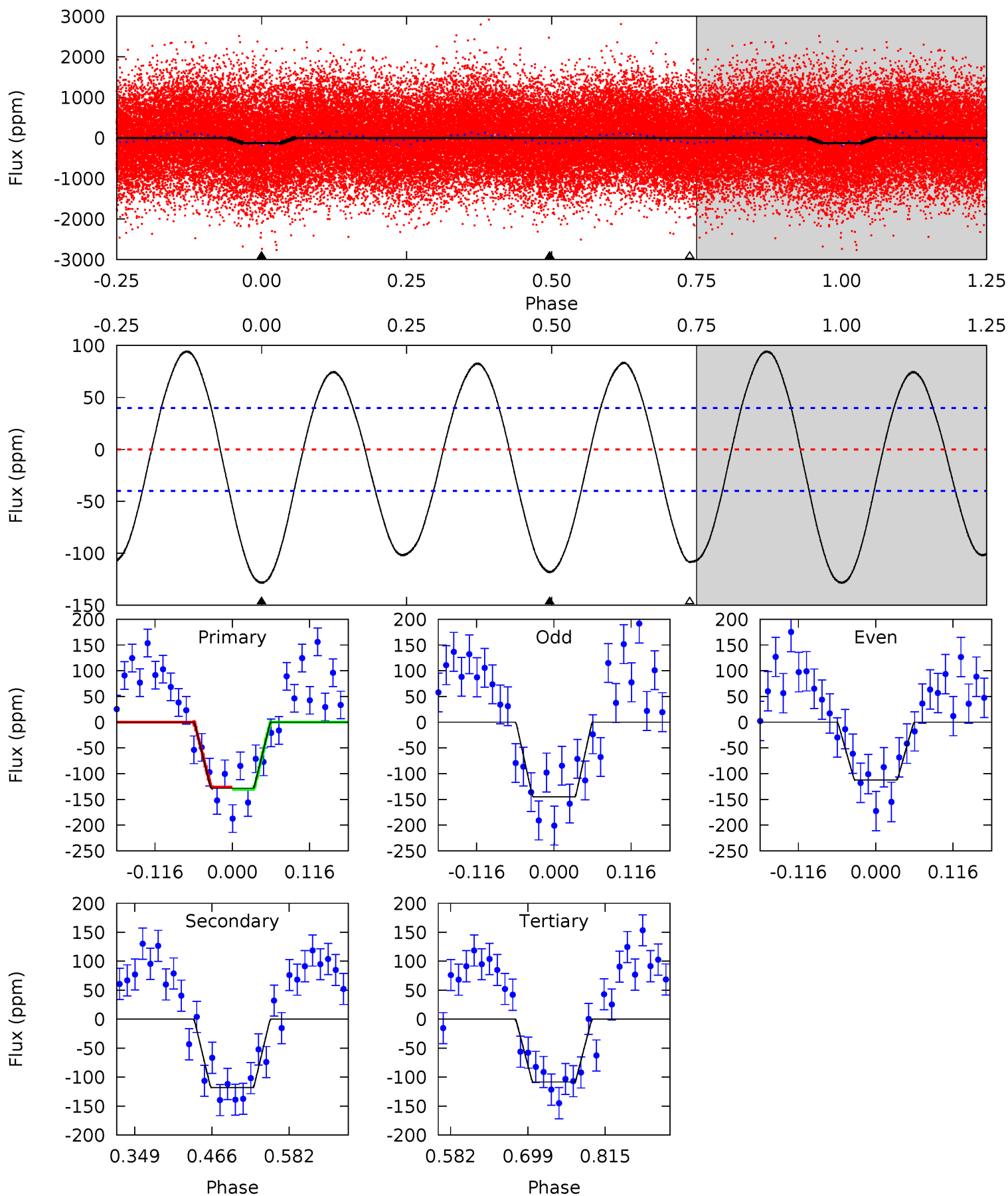
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.6	15.7	0	0	4.47	1.41	16.1	28.6	28.6	15.7	15.7	4.30	1.06	0.61	1.30



Alt Model-Shift Uniqueness Test

005632912-01, P = 0.822962 Days, E = 130.805439 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.6	13.4	12.3	0	4.53	1.57	7.85	2.26	14.6	1.11	13.4	1.86	1.02	0.42	0.24



Stellar Parameters For KIC 005632912

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7596^{+244}_{-298}	$3.507^{+0.702}_{-0.078}$	$-0.640^{+0.300}_{-0.250}$	$3.991^{+0.286}_{-2.573}$	$1.865^{+0.109}_{-0.653}$	$0.041^{+0.510}_{-0.010}$
	+3%/-4%	+20%/-2%	+47%/-39%	+7%/-64%	+6%/-35%	+1236%/-25%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005632912-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-61 ± 4	$4.69^{+1.13}_{-1.53}$	6266^{+379}_{-980}	5340^{+761}_{-831}	$0.683^{+0.707}_{-0.234}$
Alt.	-118 ± 9	$4.70^{+1.12}_{-1.51}$	6274^{+368}_{-942}	6721^{+860}_{-713}	$1.288^{+1.251}_{-0.427}$

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

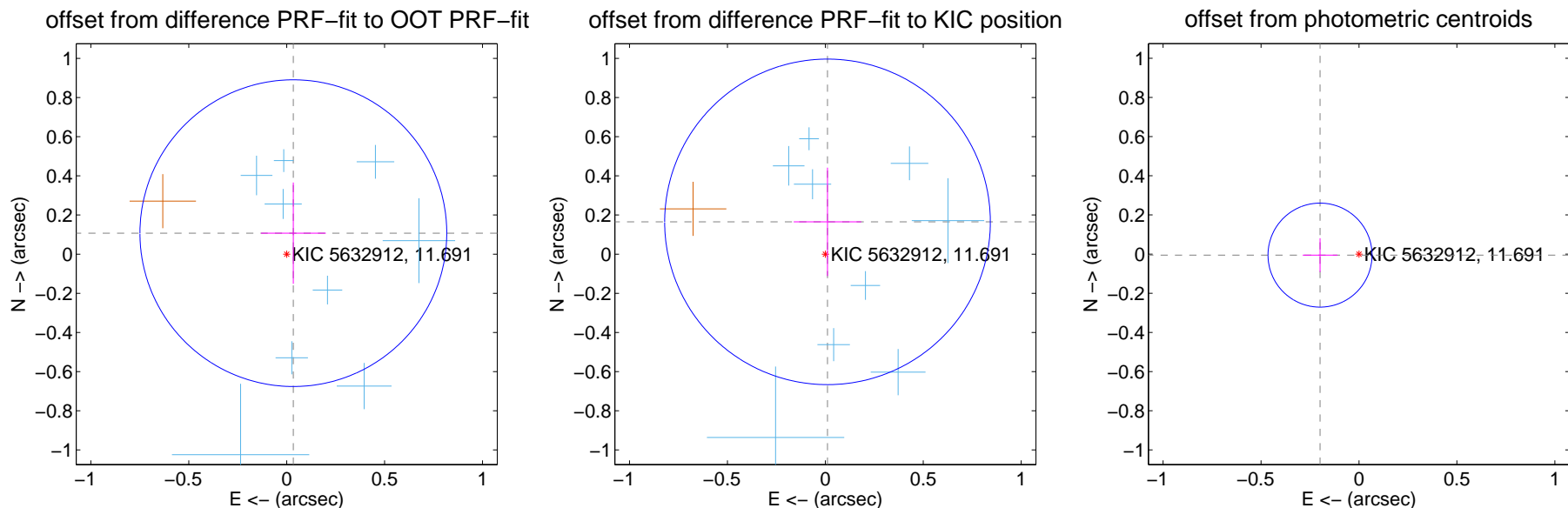
DV Centroid Data

Supplemental centroid analysis for 005632912-01. **Kepler magnitude: 11.69.** Transit SNR 17.62

There are 12 quarters with good PRF difference image offsets

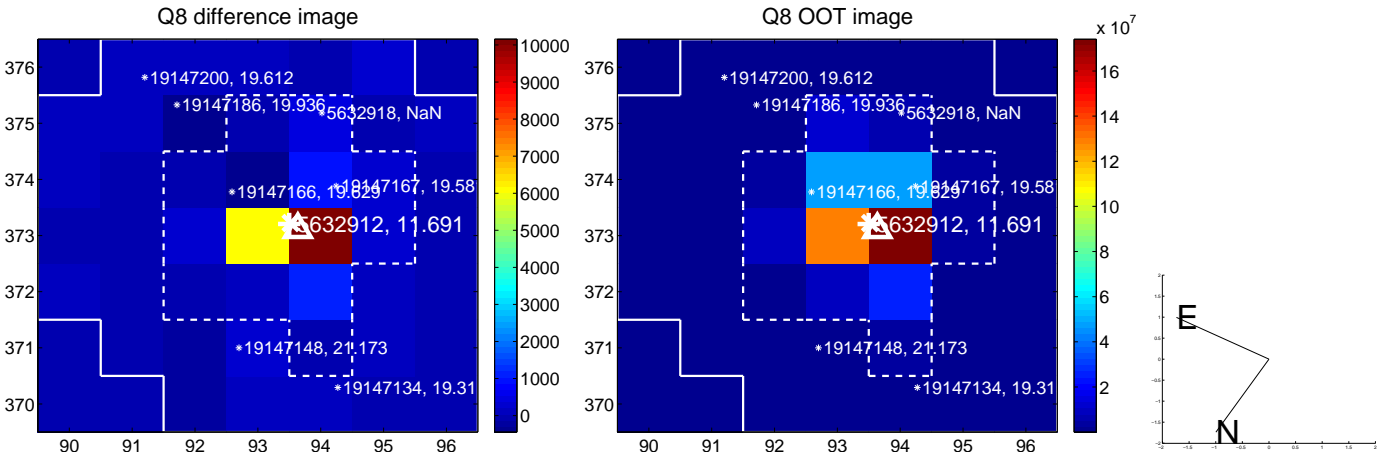
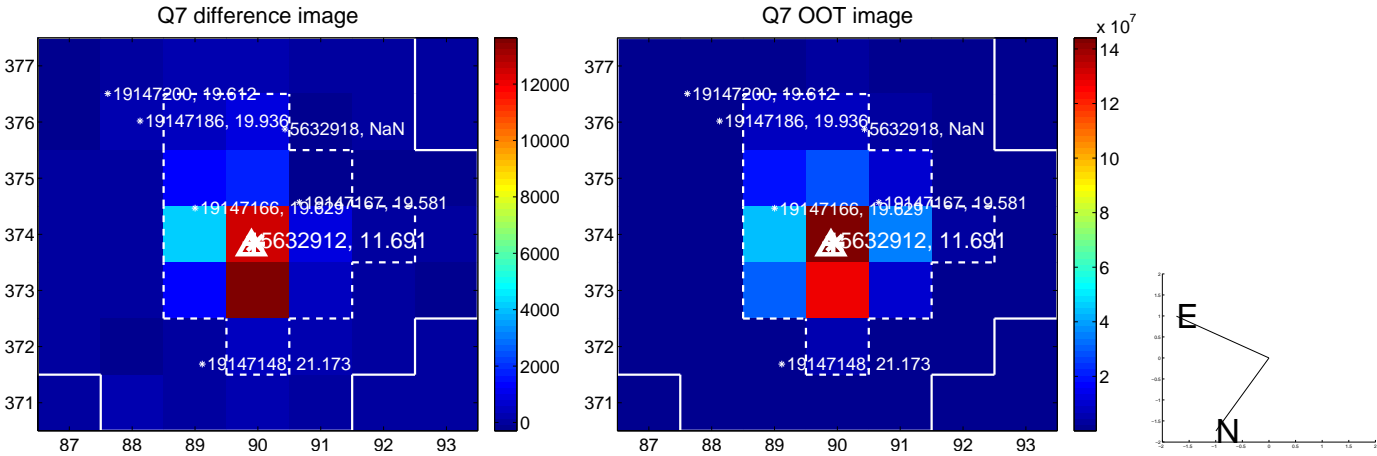
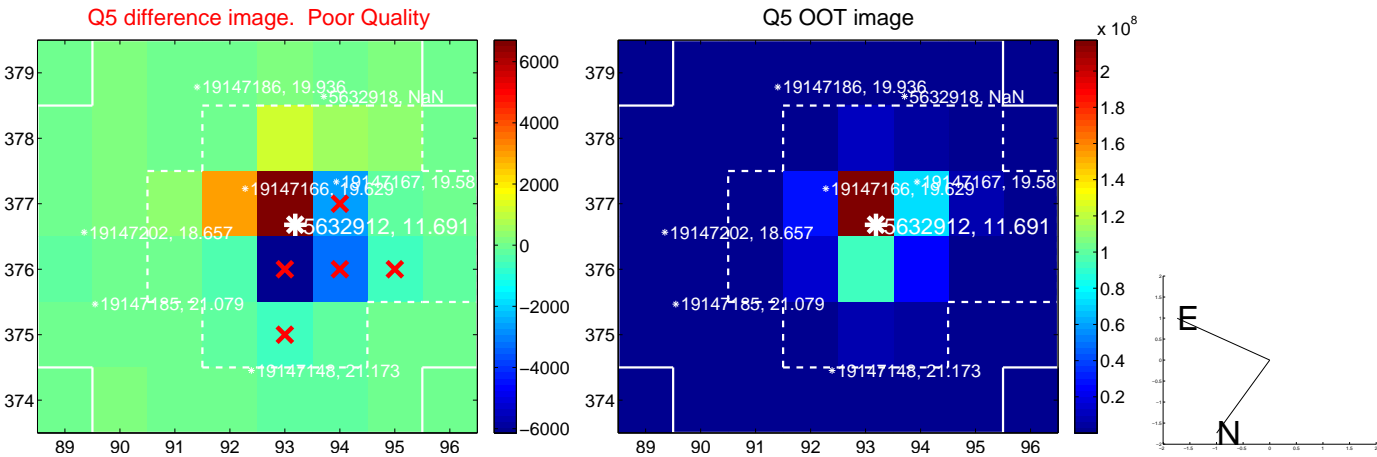
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.113 ± 0.261	0.43	-0.034 ± 0.166	0.107 ± 0.259
PRF-fit source offset from KIC position	0.165 ± 0.277	0.60	-0.011 ± 0.172	0.165 ± 0.277
photometric centroid source offset	0.20 ± 0.09	2.25	0.20 ± 0.09	-0.01 ± 0.09

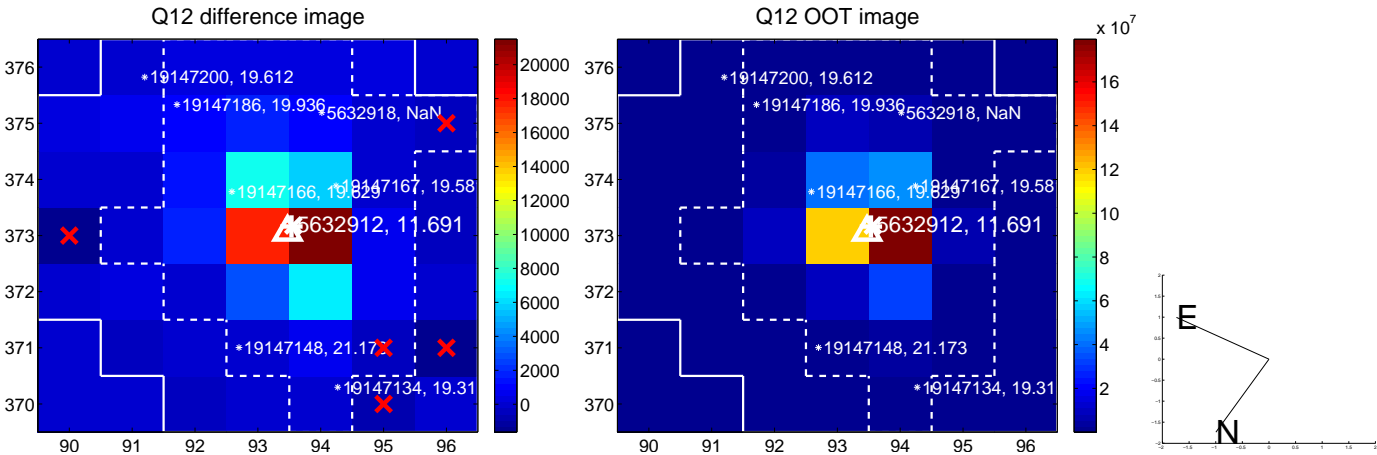
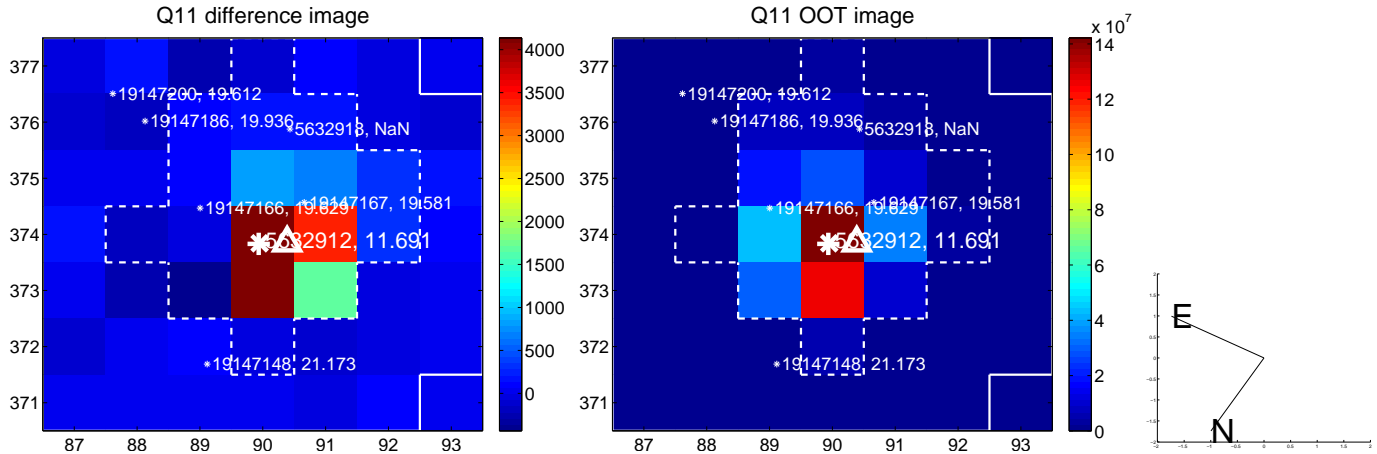
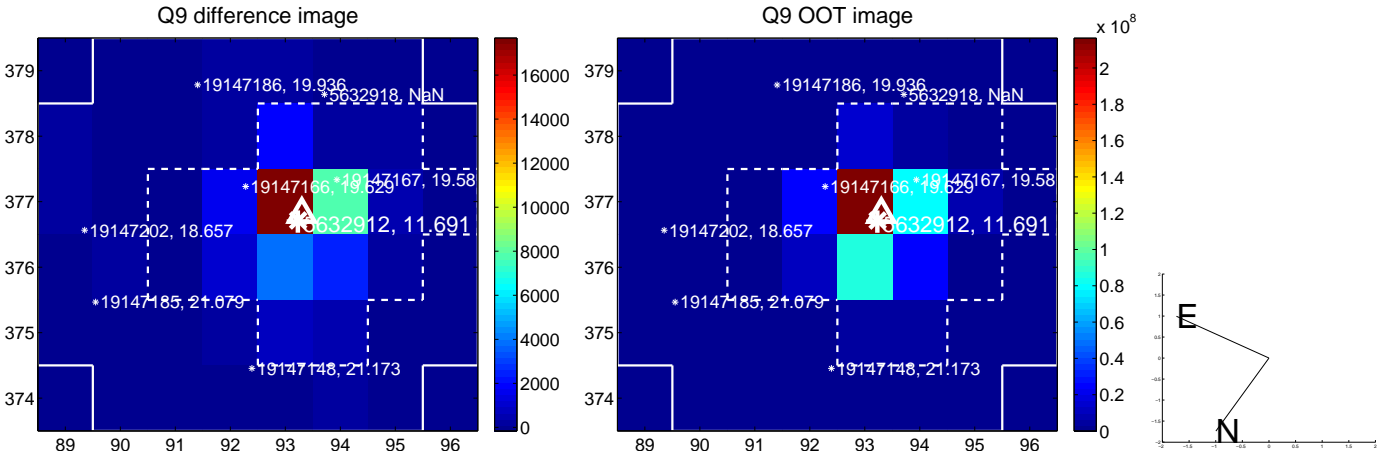


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

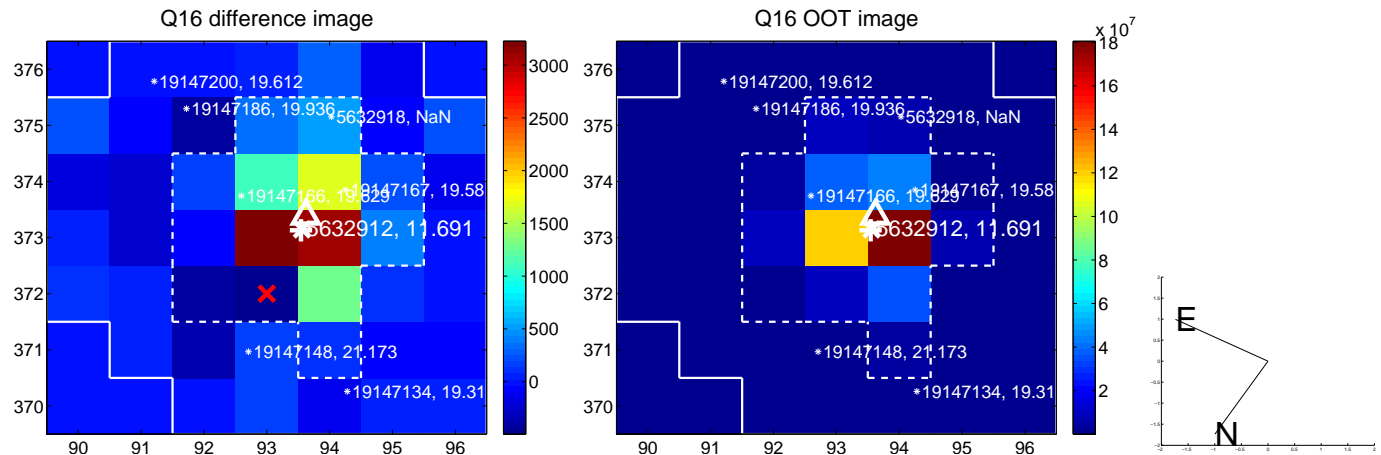
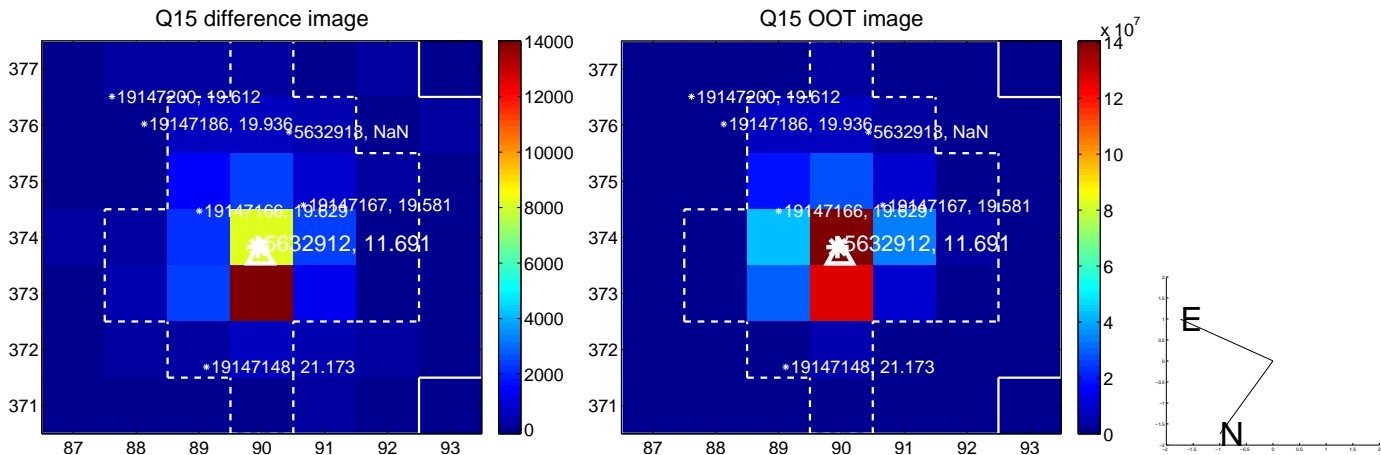
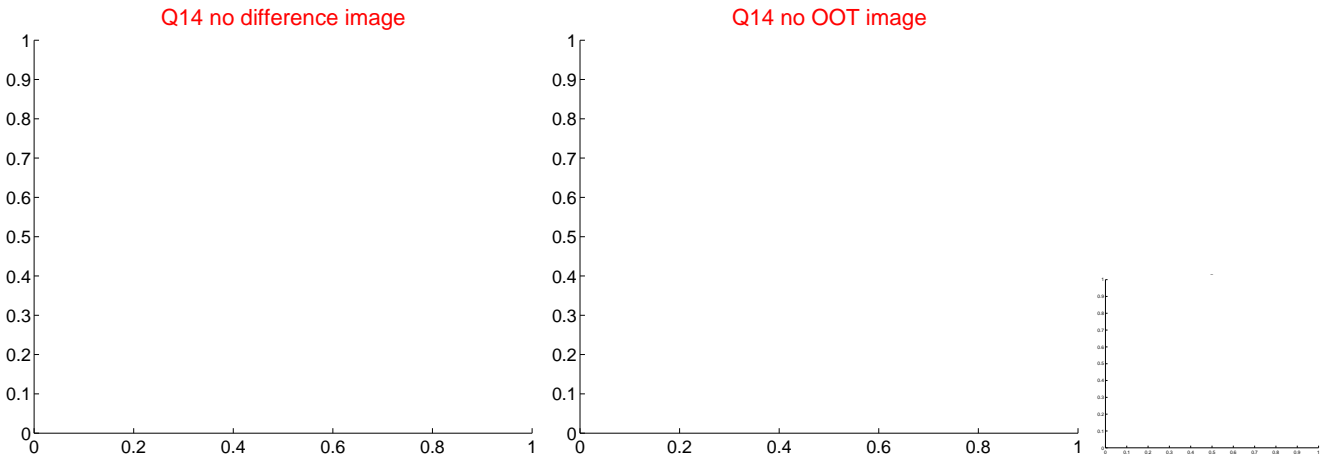
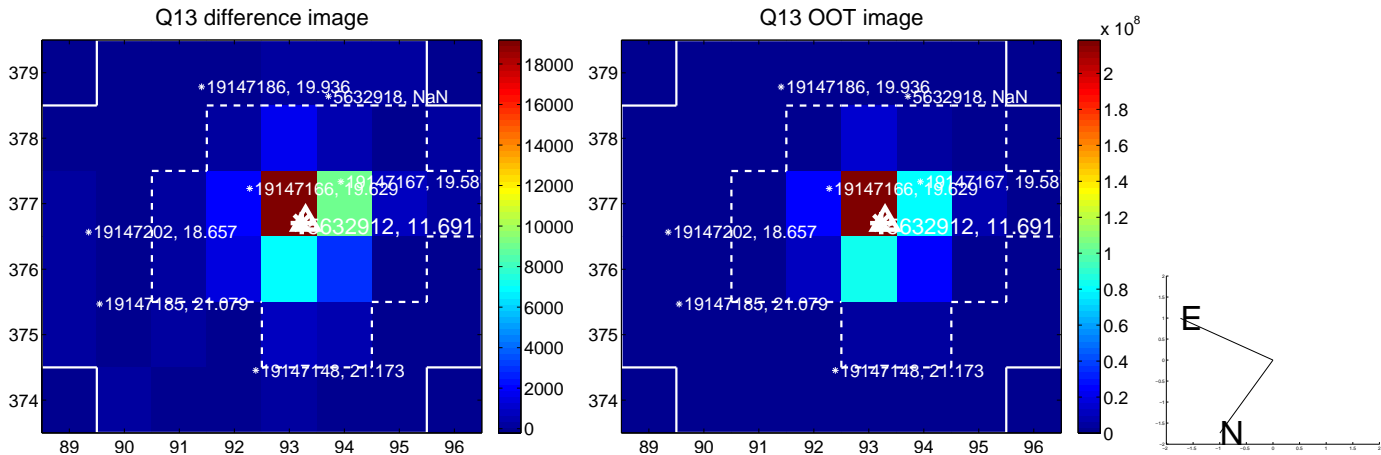
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



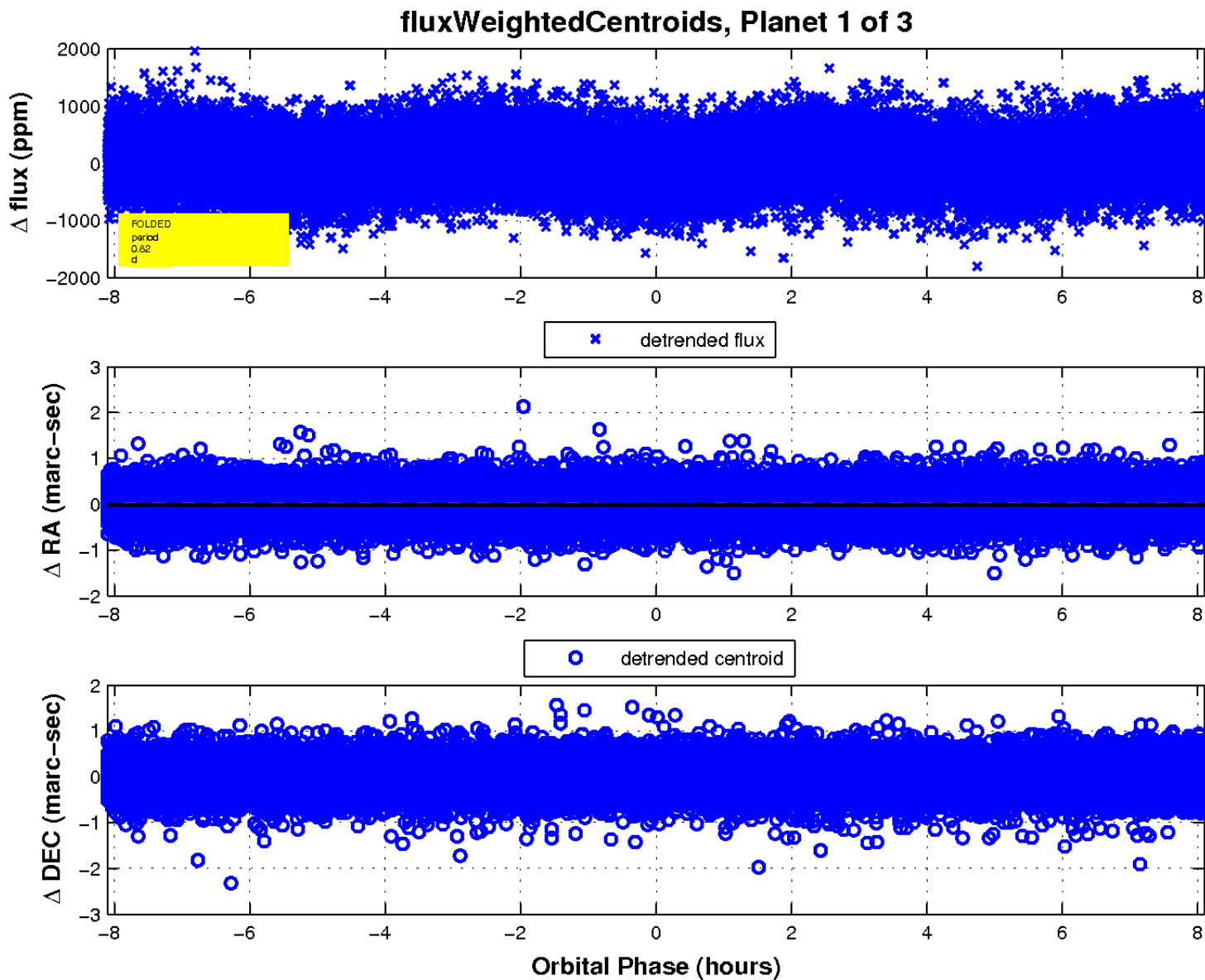
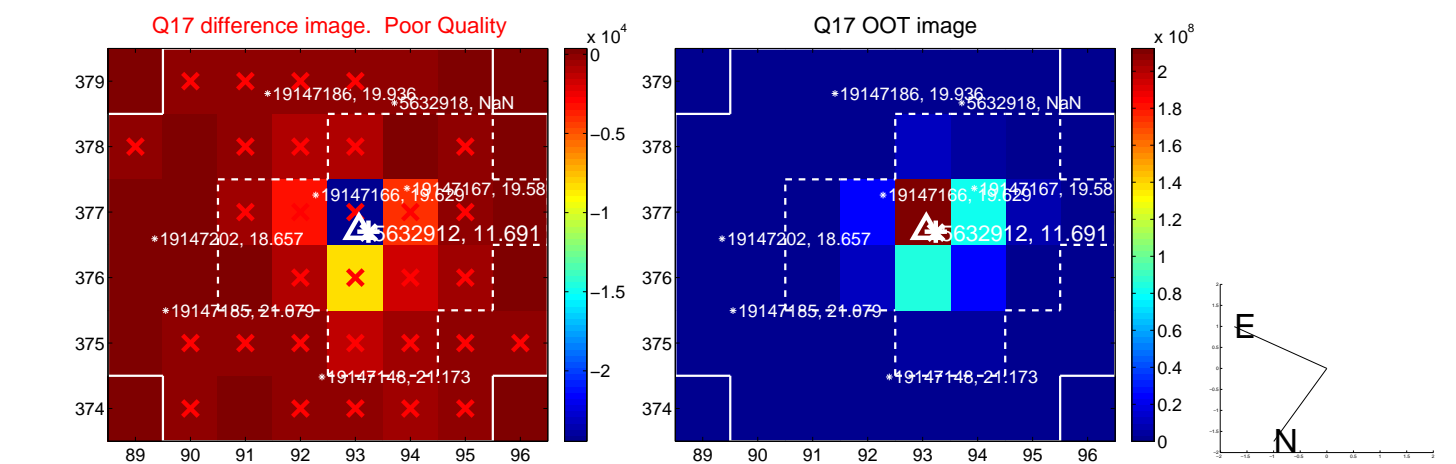
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

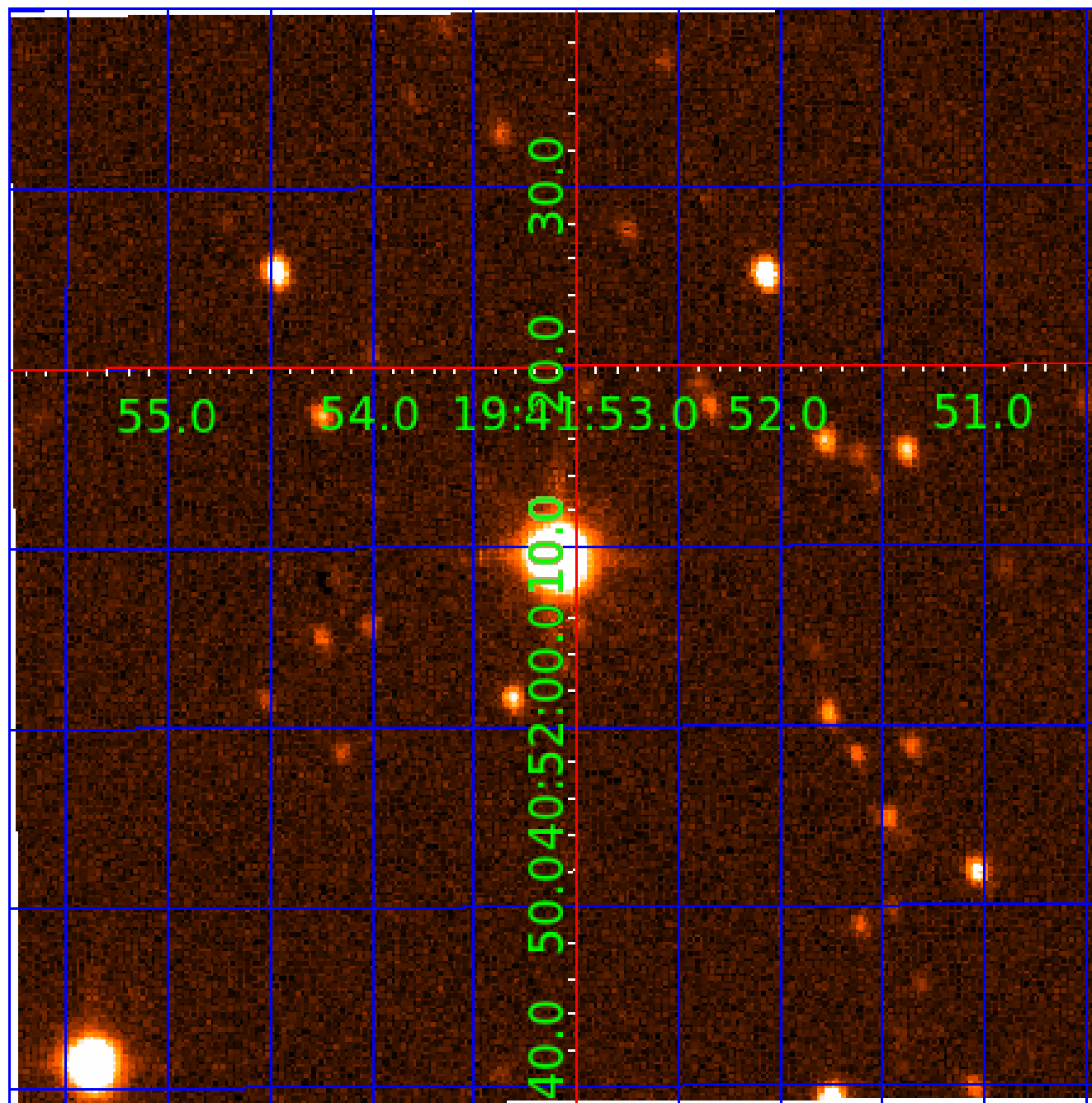


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005632912

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})
005632912-01	OBS	No	0.822959	131.628435	119.7	2.700	15.9	17.6	3.99	7596	5.09	106035.37
005632912-02	OBS	No	0.822948	132.046789	113.7	2.480	17.4	18.0	3.99	7596	4.96	106037.36
005632912-03	OBS	No	0.579409	131.513277	154.2	2.000	12.2	-1.0	3.99	7596	5.01	169293.88

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005632912-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005632912-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
005632912-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—CENT_NOFITS

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

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

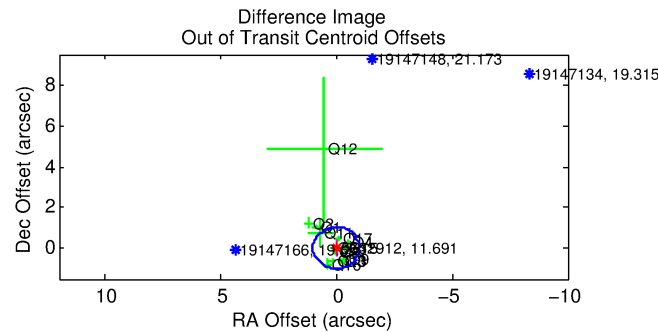
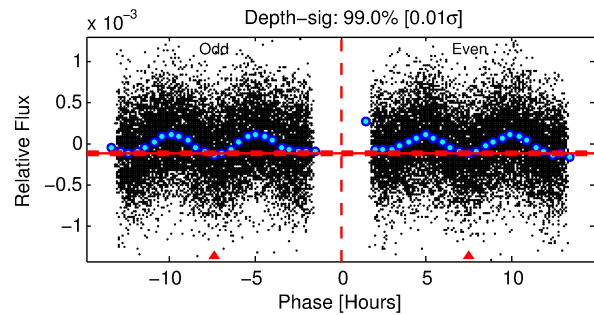
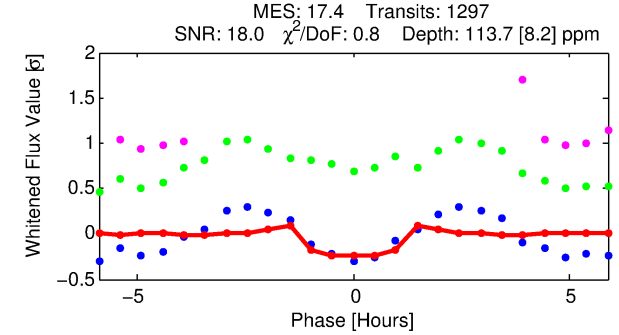
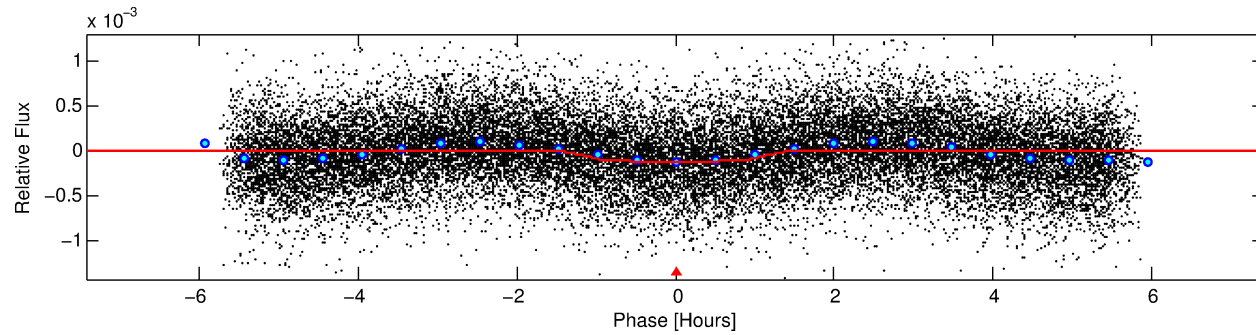
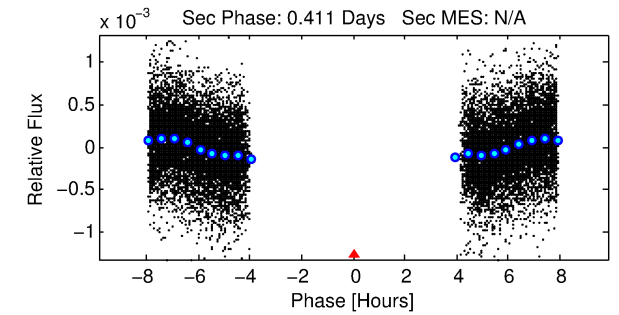
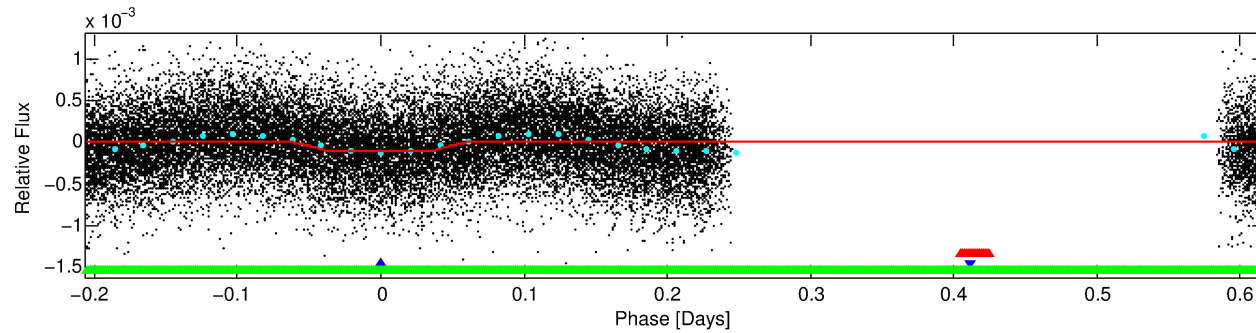
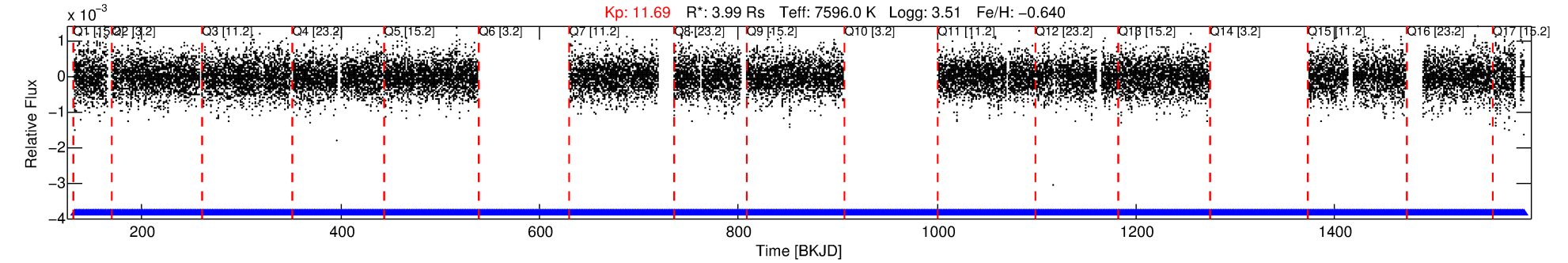
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005632912-02

No Significant Match Found

DV One-Page Summary

KIC: 5632912 Candidate: 2 of 3 Period: 0.823 d



DV Fit Results:

Period = 0.82295 [0.00001] d
Epoch = 132.0468 [0.0012] BKJD
Rp/R* = 0.0114 [0.0021]
a/R* = 1.50 [0.91]
b = 0.90 [0.24]
Seff = 106037.36 [124140.58]
Teq = 4601 [1347] K
Rp = 4.96 [3.33] Re
a = 0.0212 [0.0146] AU

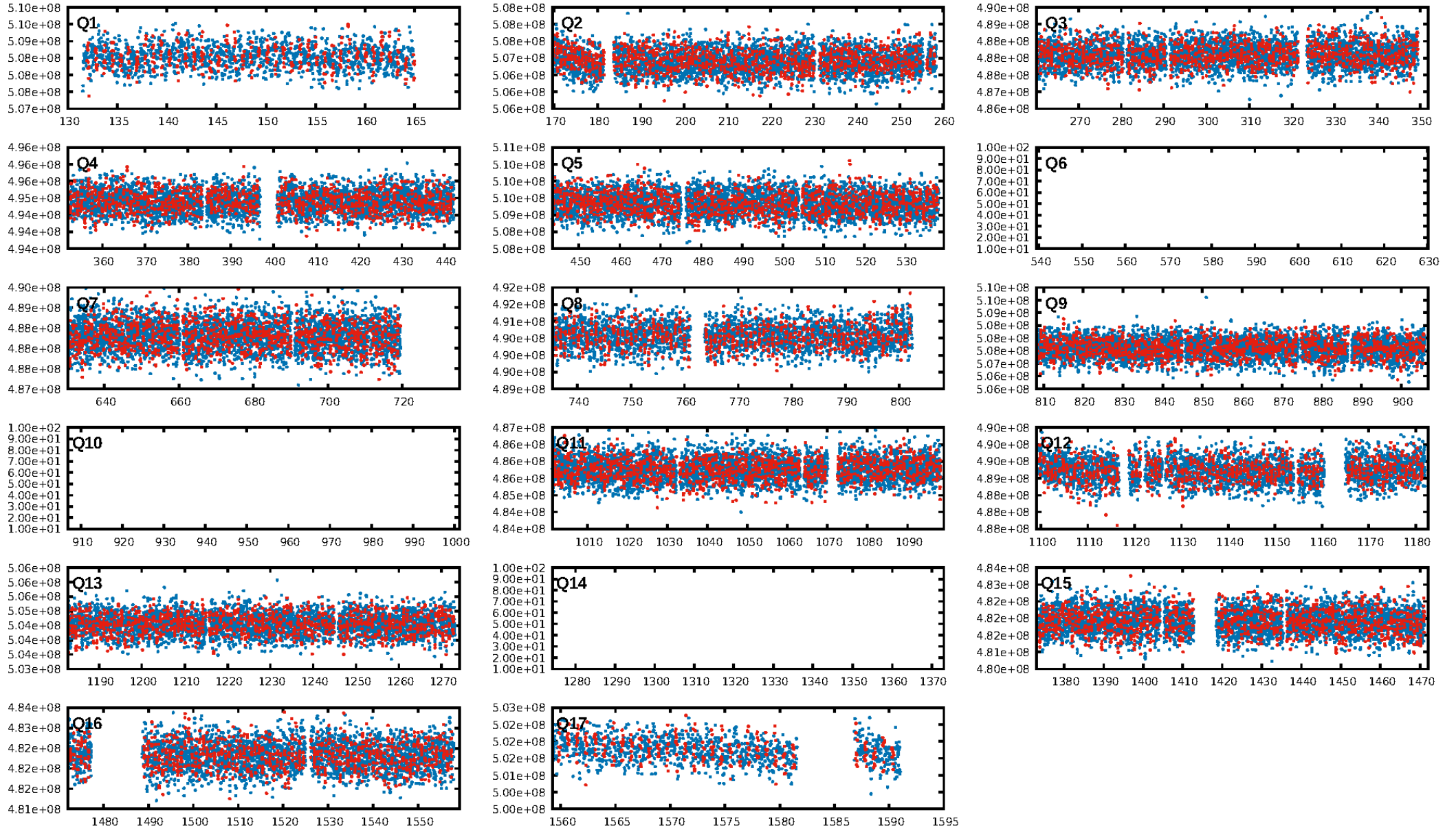
DV Diagnostic Results:

ShortPeriod-sig: 93.3% [1.83σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1224/1224]
GhostDiagnostic-chr: 1.889
Centroid-sig: N/A
Centroid-so: 0.145 arcsec [1.53σ]
OotOffset-rm: 0.024 arcsec [0.07σ]
KicOffset-rm: 0.097 arcsec [0.27σ]
OotOffset-st: 1/4/4/4 [13]
KicOffset-st: 1/4/4/4 [13]
DiffImageQuality-fgm: 0.77 [10/13]
DiffImageOverlap-fno: 0.00 [0/14]

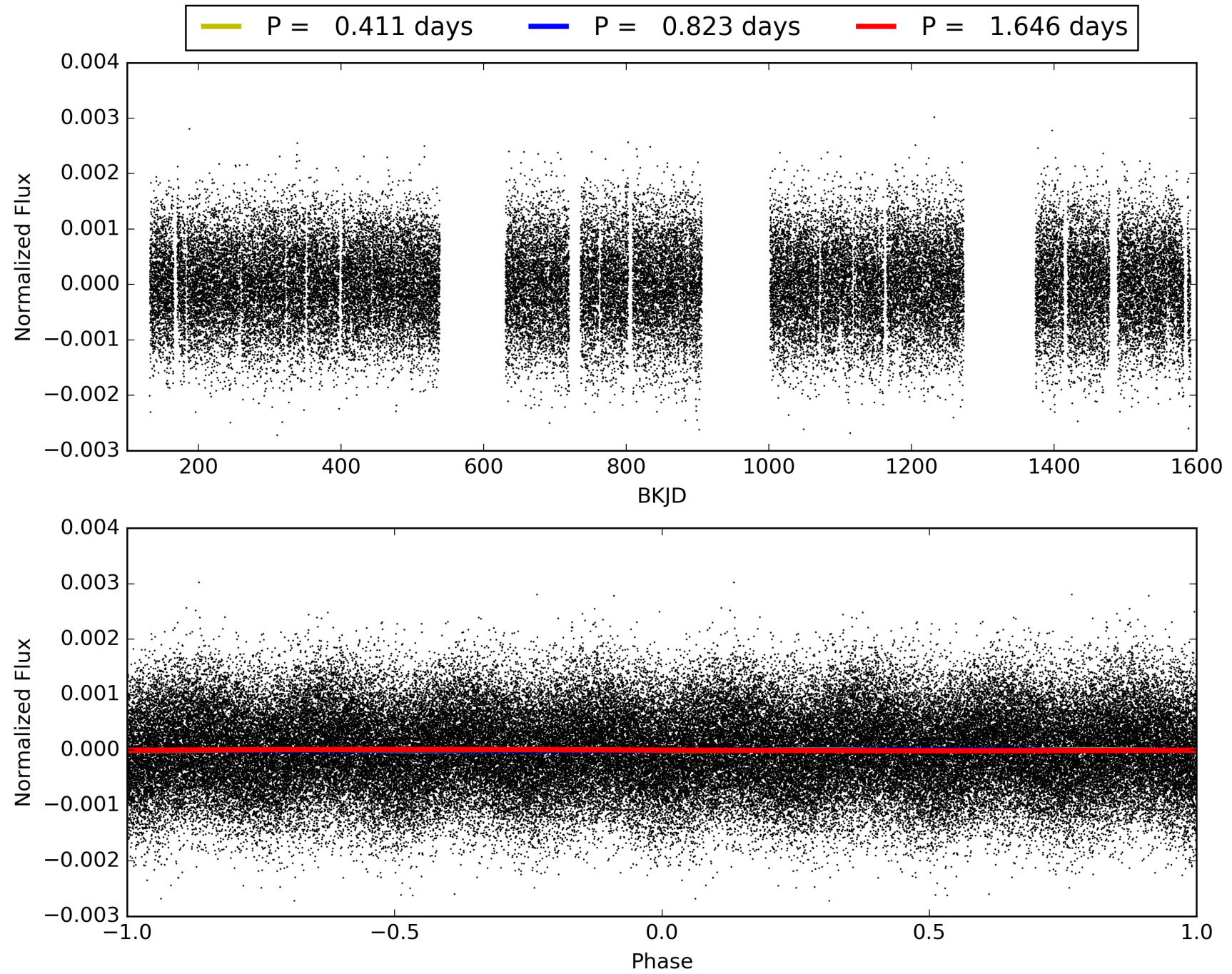
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:40:41 Z

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

TCE 005632912-02, PDC Light Curves

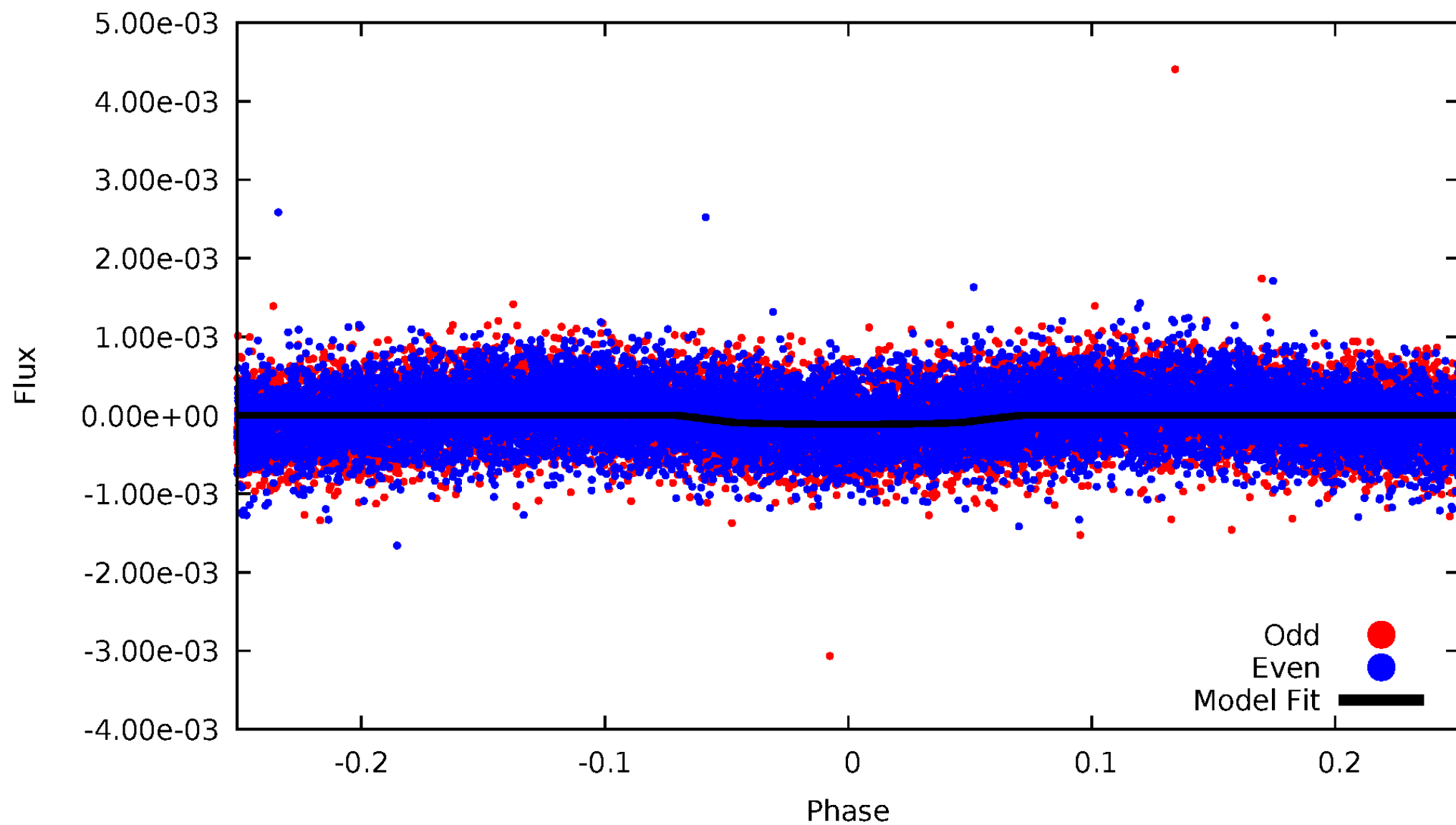


TCE 005632912-02



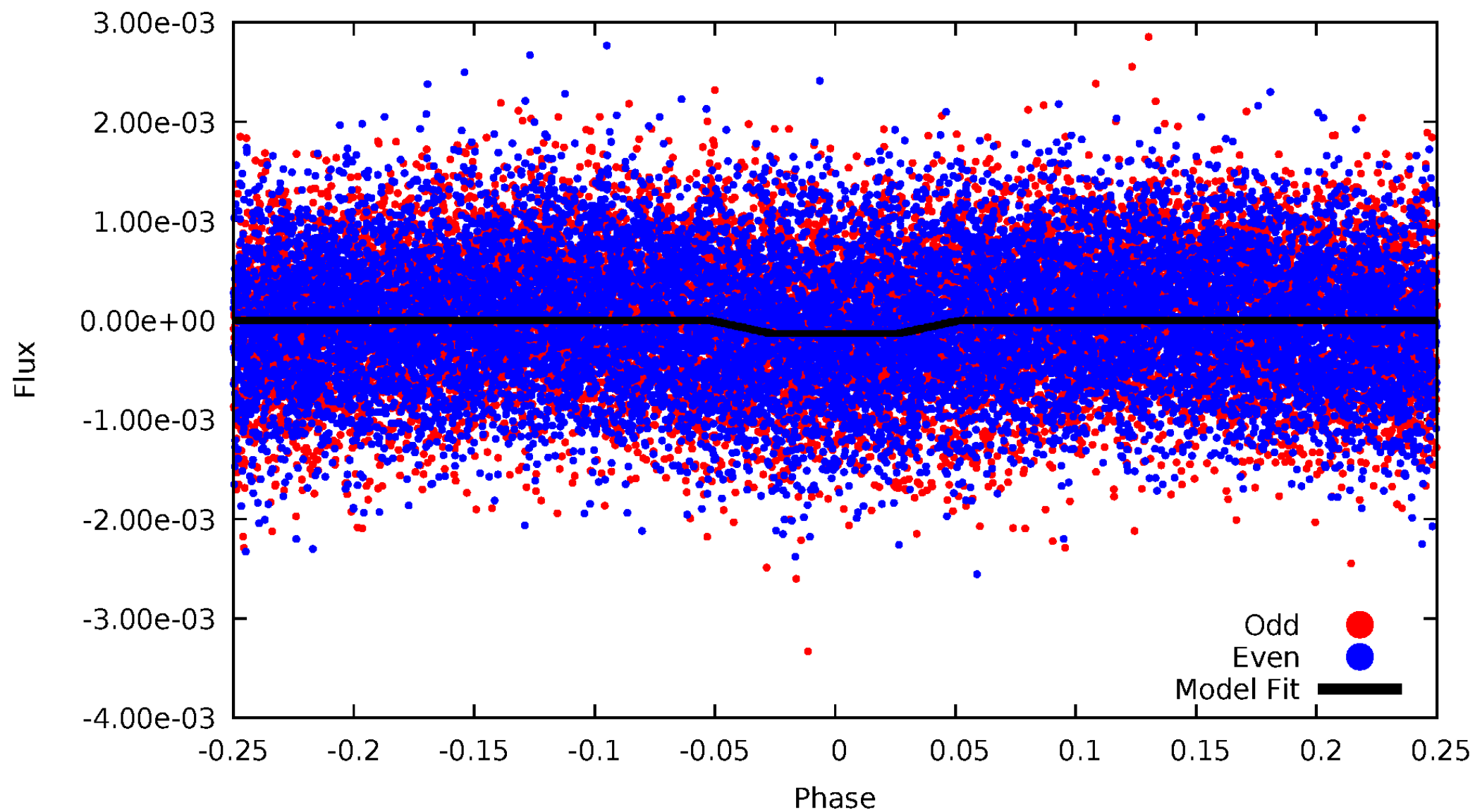
DV Odd/Even

TCE 005632912-02



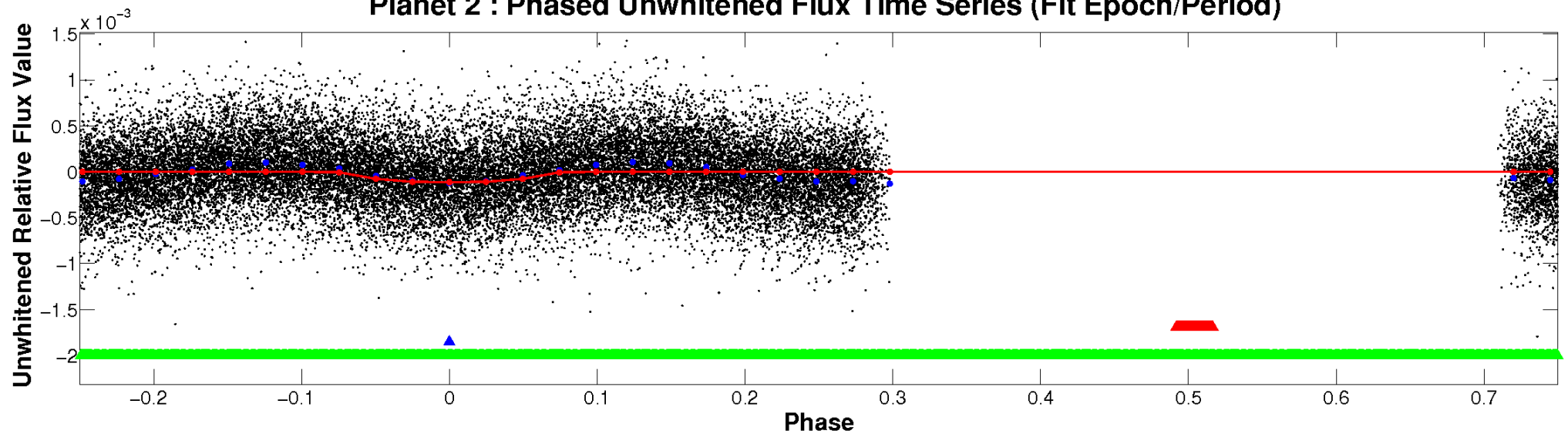
ALT Odd/Even

TCE 005632912-02

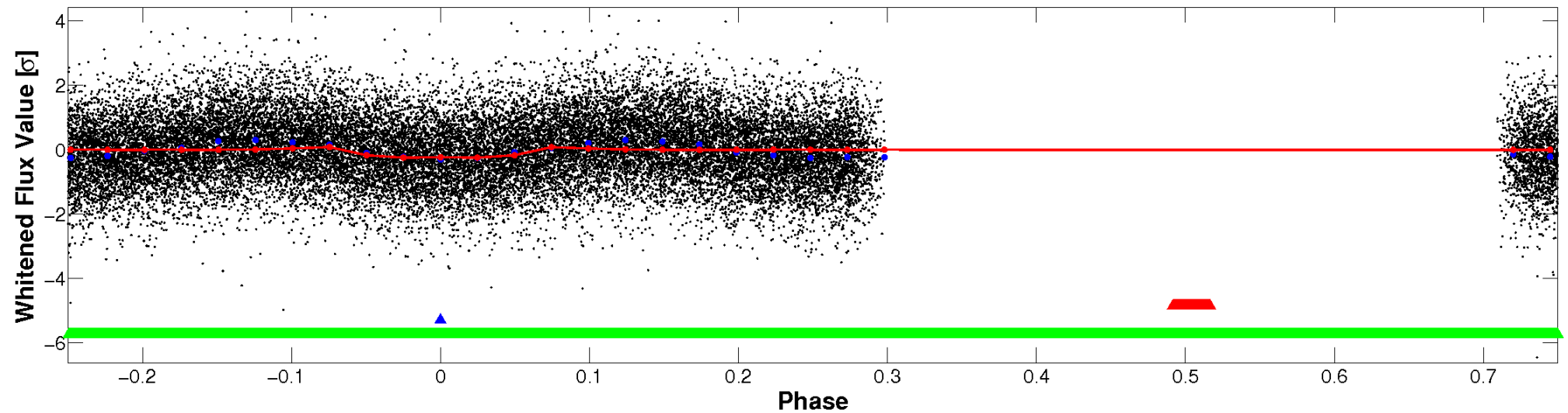


Non-Whitened Vs. Whitened Light Curve

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

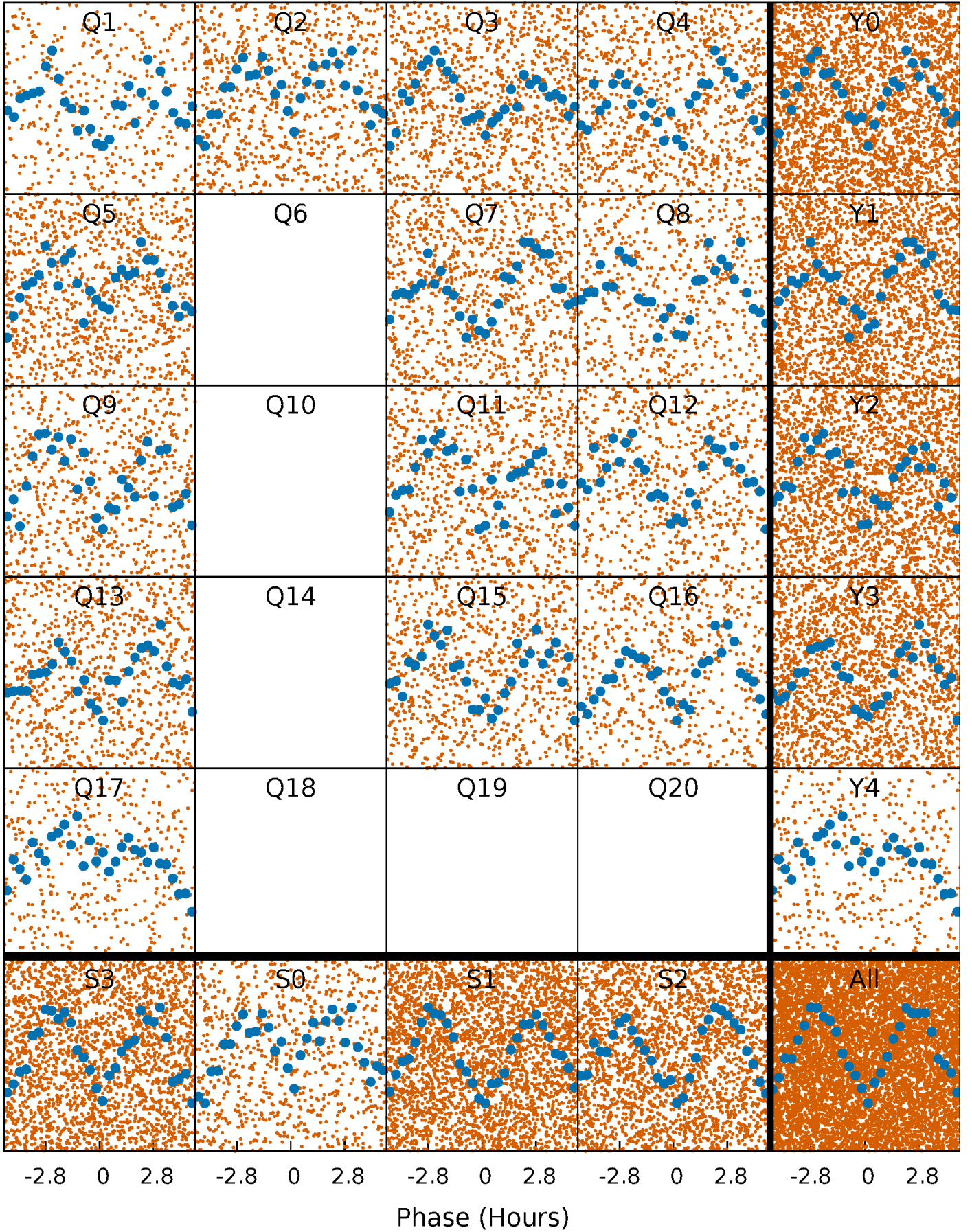


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



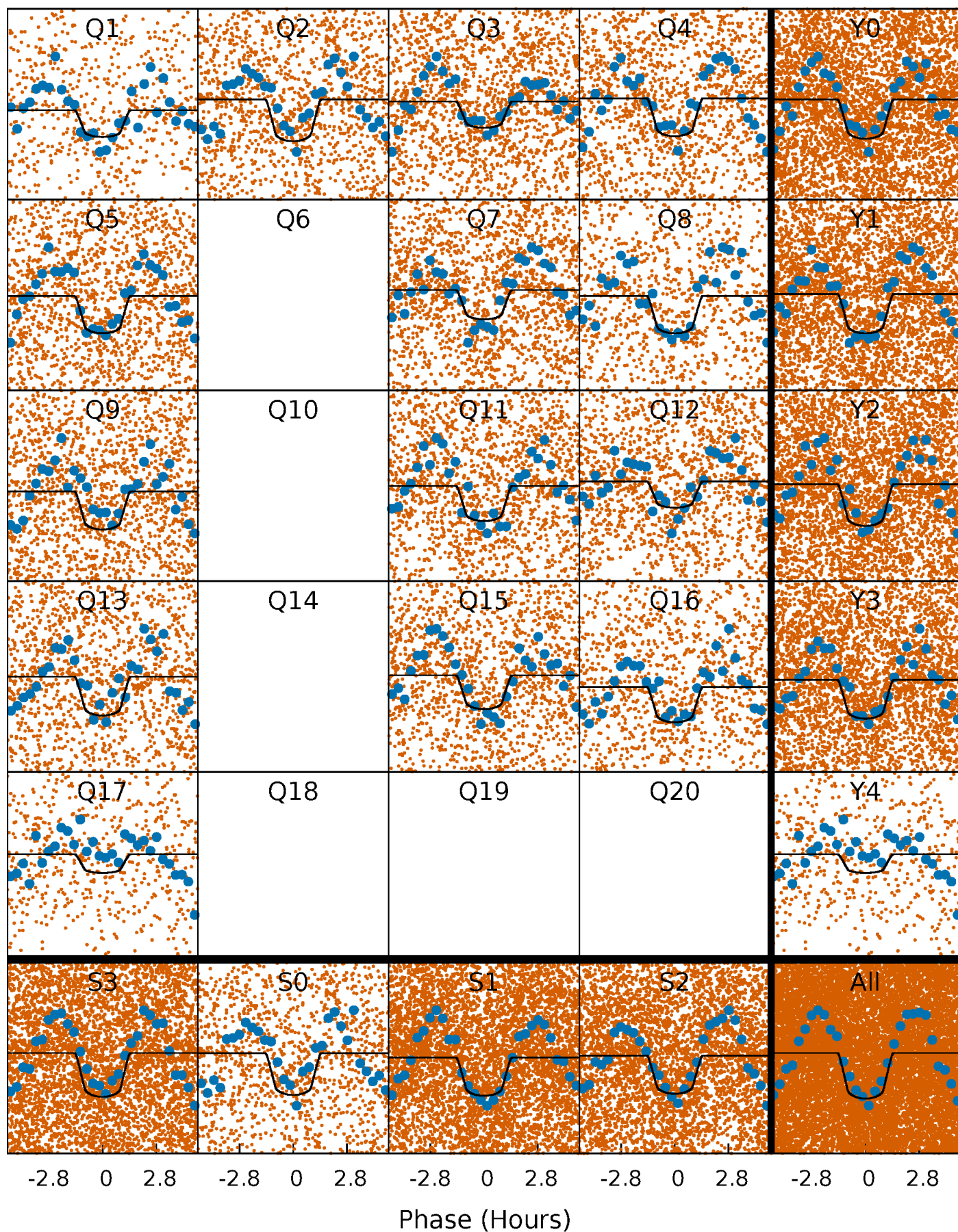
PDC Quarter-Phased Transit Curves

TCE 005632912-02 P= 0.822948 Days $T_0=132.046789$ (BKJD)



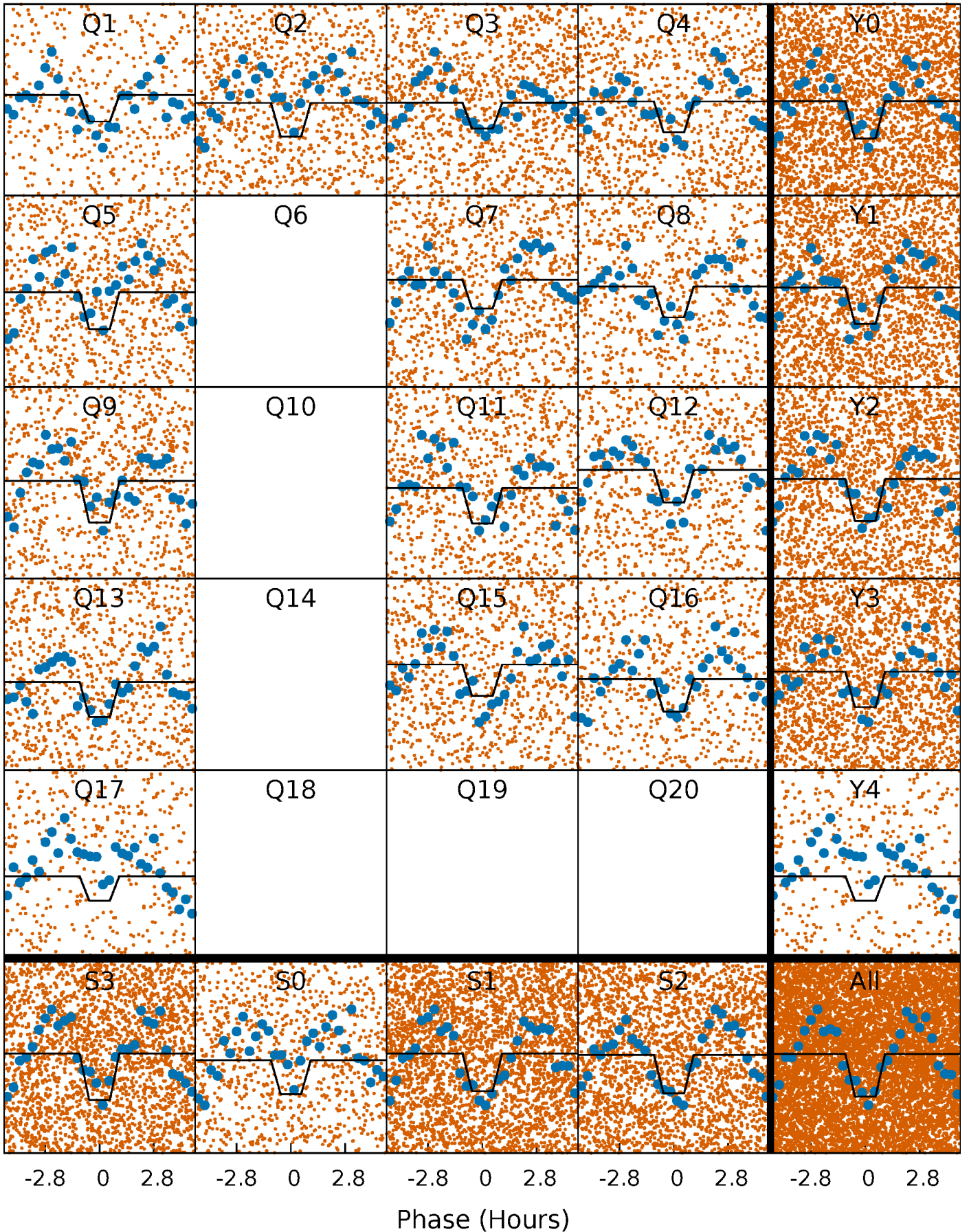
DV Quarter-Phased Transit Curves

TCE 005632912-02 P= 0.822948 Days $T_0=132.046789$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

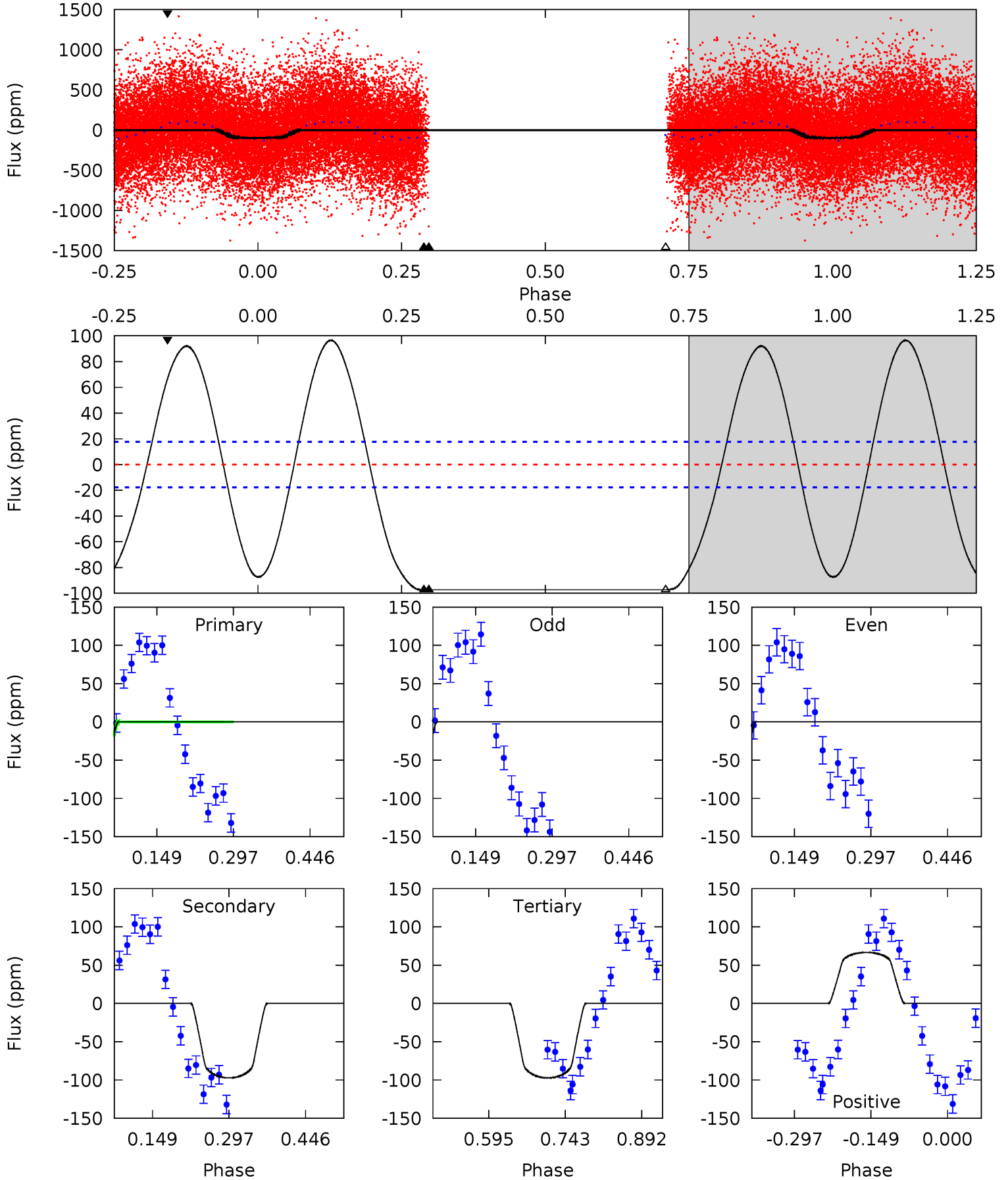
TCE 005632912-02 P= 0.822950 Days $T_0=132.046671$ (BKJD)



DV Model-Shift Uniqueness Test

005632912-02, P = 0.822948 Days, E = 131.223841 Days

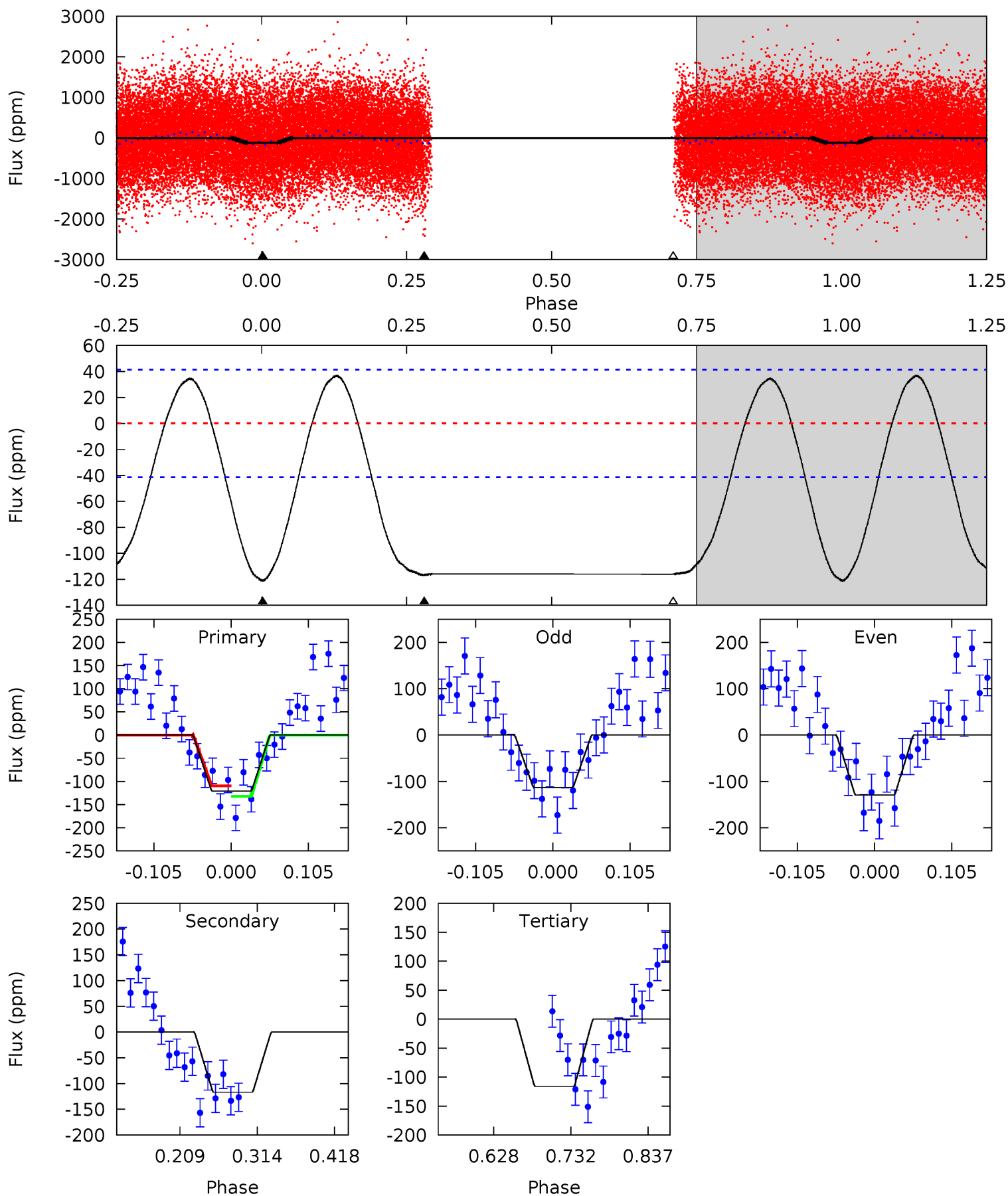
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.7	24.6	24.6	16.9	4.48	1.44	16.7	0.04	7.78	-0.00	7.74	0.30	1.04	0.50	1.73



Alt Model-Shift Uniqueness Test

005632912-02, P = 0.822950 Days, E = 131.223721 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.3	12.8	12.8	0	4.56	1.62	6.22	0.54	13.3	0.06	12.8	0.88	0.93	0.23	1.23



Stellar Parameters For KIC 005632912

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7596^{+244}_{-298}	$3.507^{+0.702}_{-0.078}$	$-0.640^{+0.300}_{-0.250}$	$3.991^{+0.286}_{-2.573}$	$1.865^{+0.109}_{-0.653}$	$0.041^{+0.510}_{-0.010}$
	+3%/-4%	+20%/-2%	+47%/-39%	+7%/-64%	+6%/-35%	+1236%/-25%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005632912-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-97 ± 4	$4.45^{+1.21}_{-1.62}$	6236^{+407}_{-1000}	6469^{+1129}_{-819}	$1.209^{+1.512}_{-0.469}$
Alt.	-117 ± 9	$4.40^{+1.29}_{-1.52}$	6236^{+431}_{-1002}	6905^{+1143}_{-868}	$1.436^{+1.784}_{-0.554}$

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

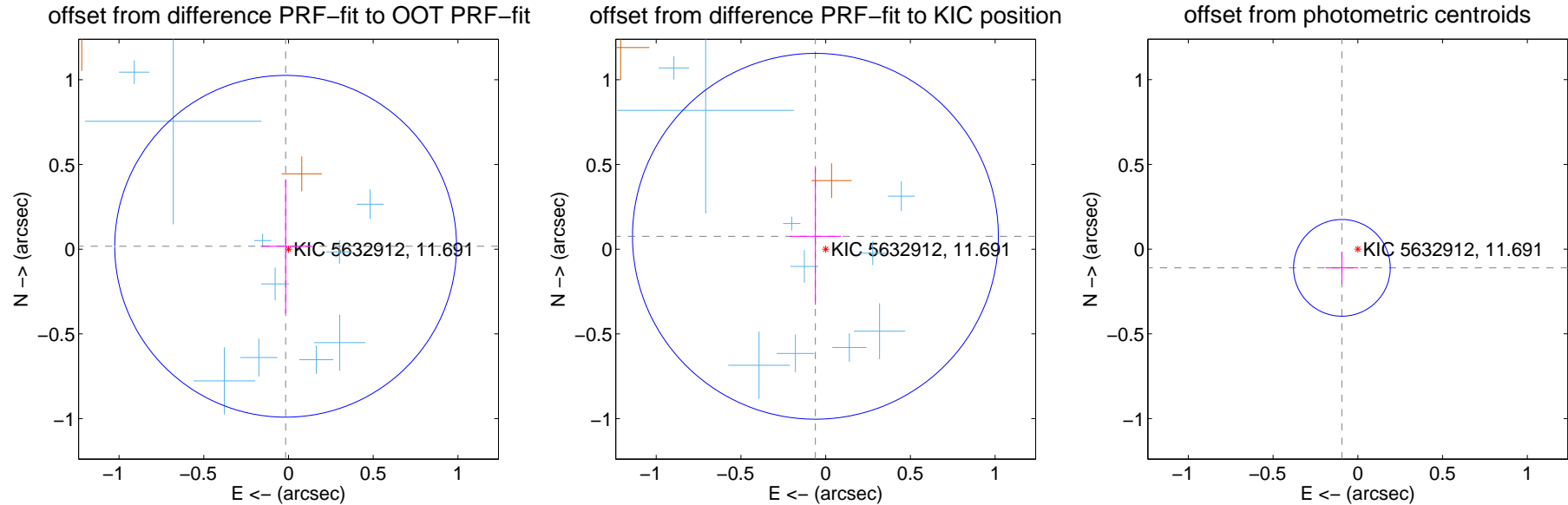
DV Centroid Data

Supplemental centroid analysis for 005632912-02. **Kepler magnitude: 11.69.** Transit SNR 18.02

There are 10 quarters with good PRF difference image offsets

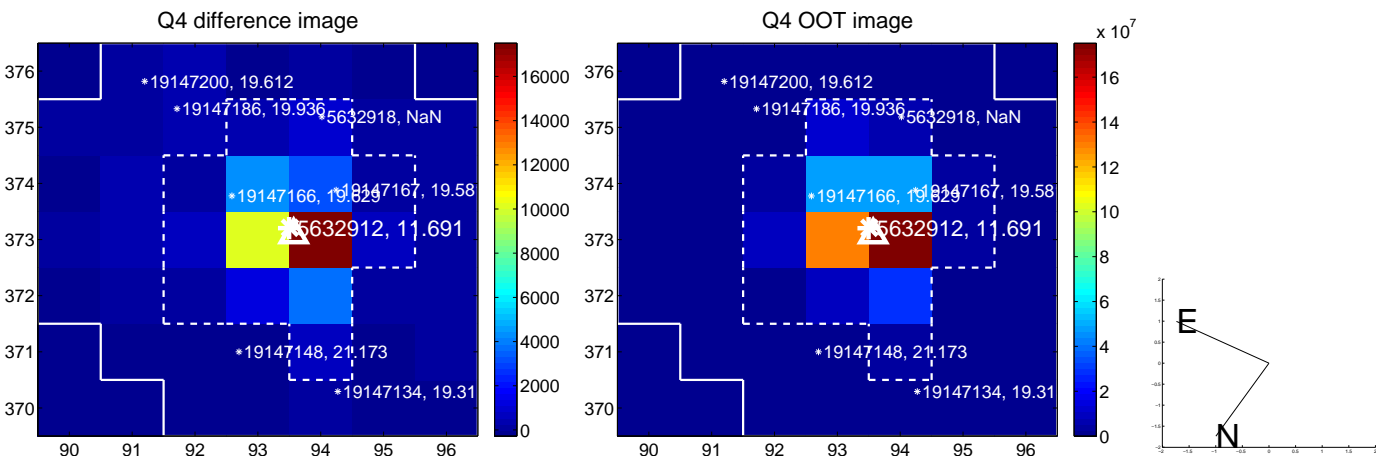
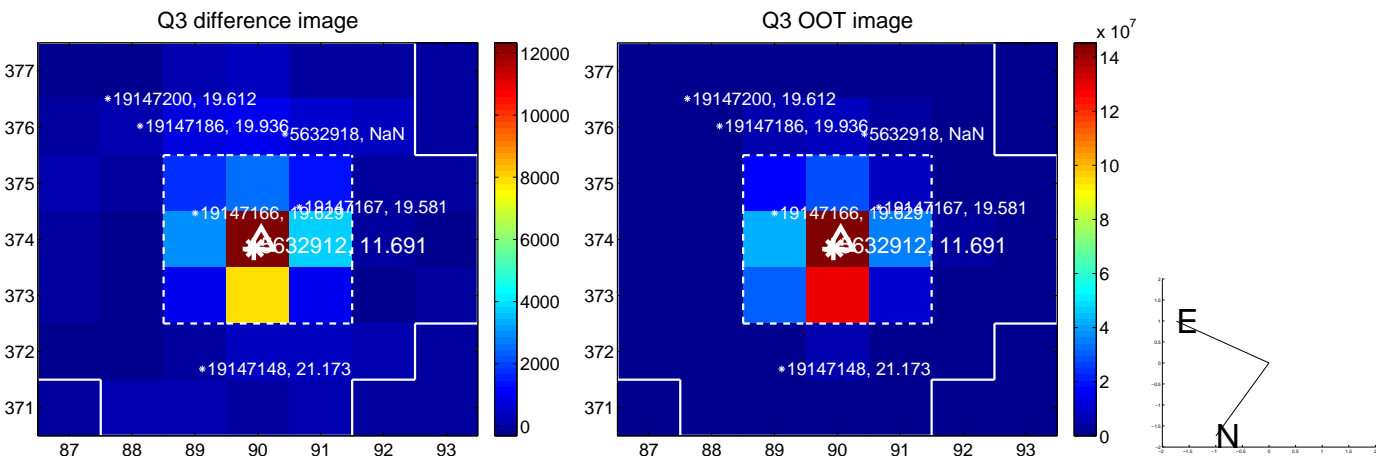
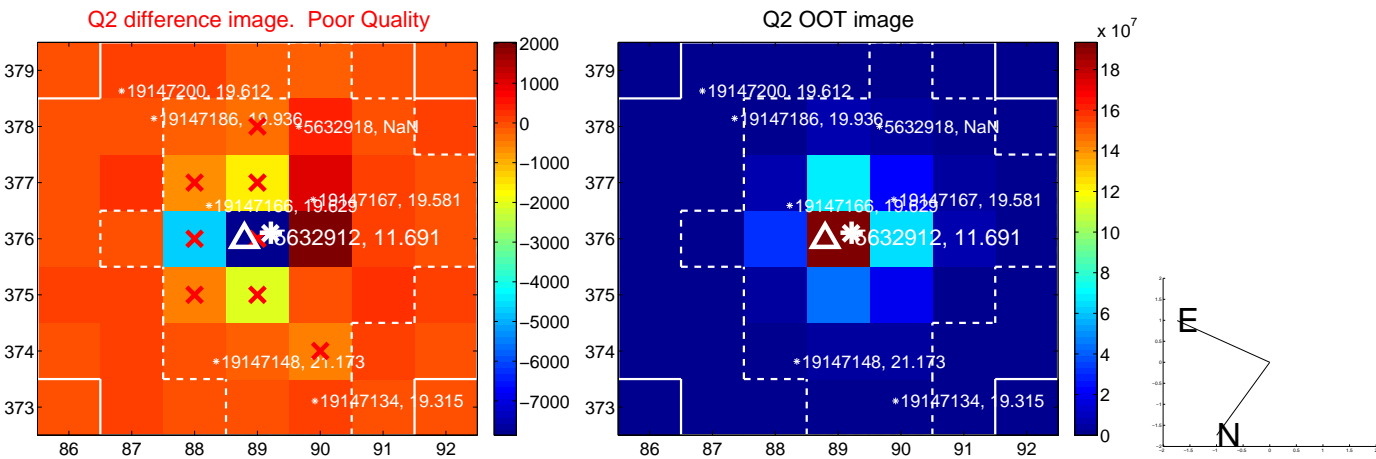
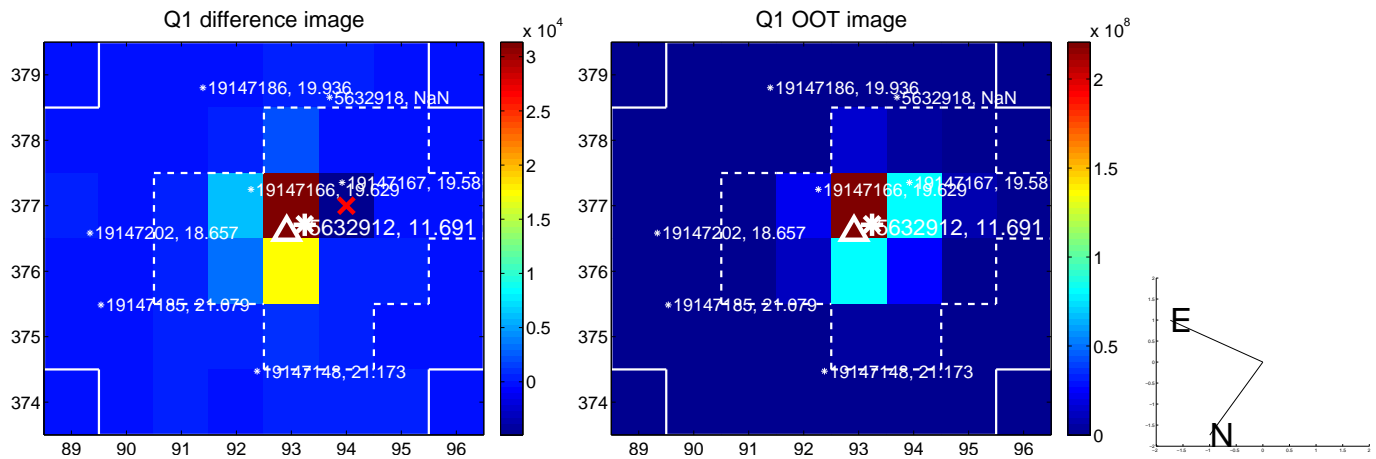
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.024 ± 0.336	0.07	0.017 ± 0.148	0.017 ± 0.396
PRF-fit source offset from KIC position	0.097 ± 0.360	0.27	0.060 ± 0.152	0.076 ± 0.404
photometric centroid source offset	0.15 ± 0.10	1.53	0.09 ± 0.10	-0.11 ± 0.09

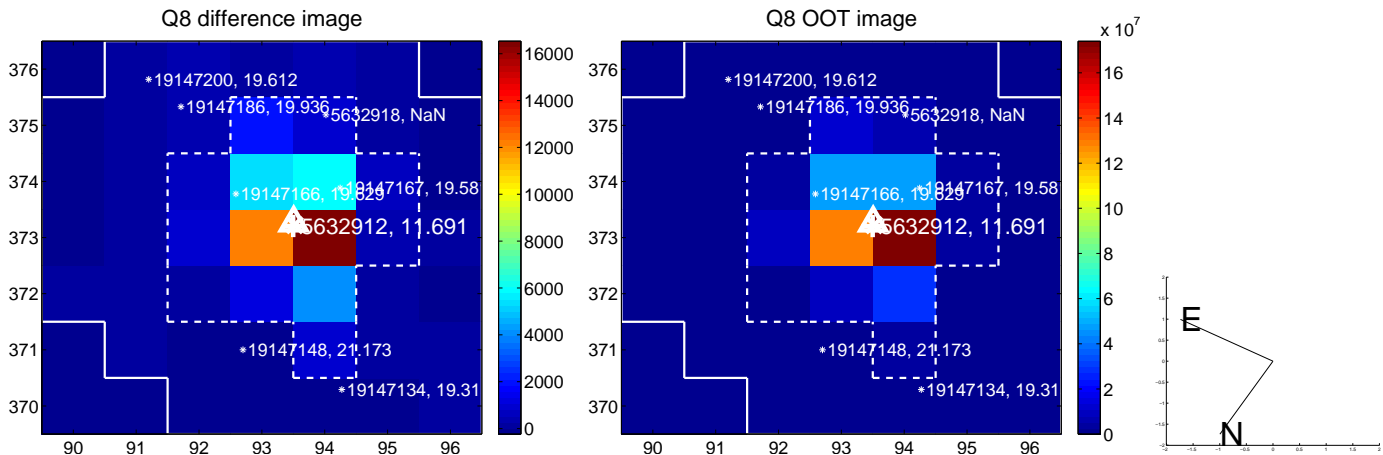
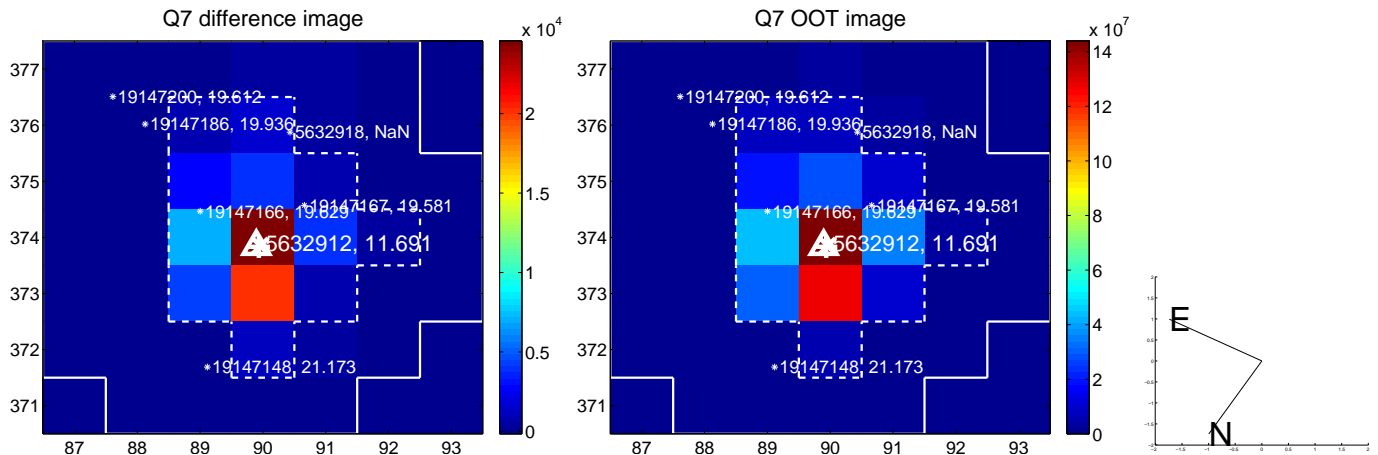
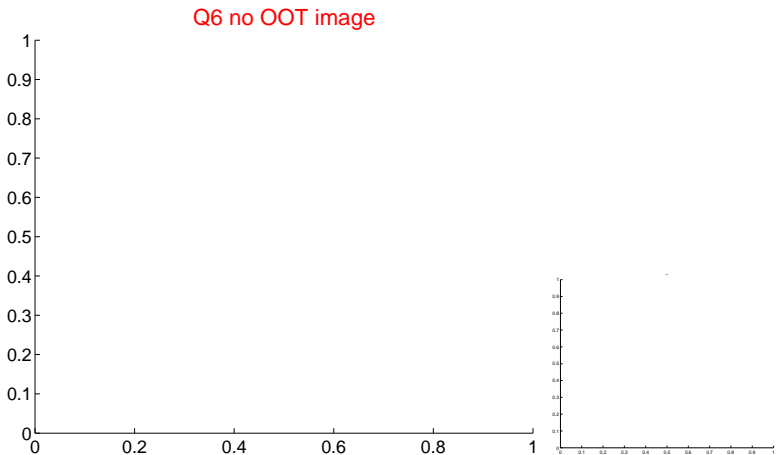
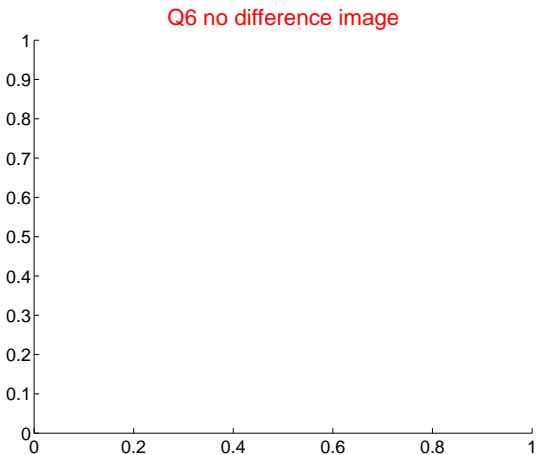
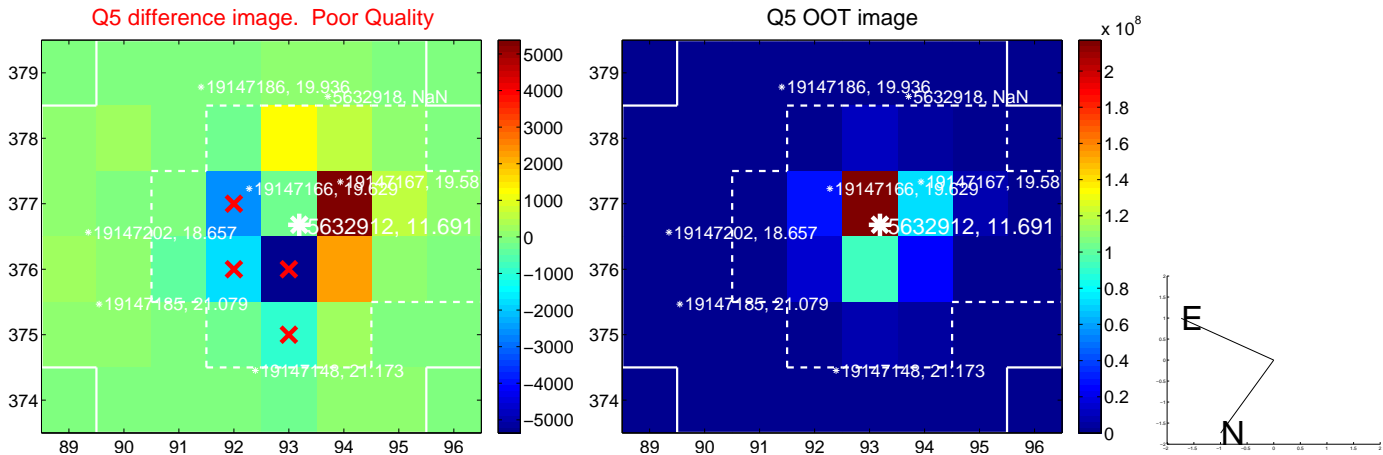


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

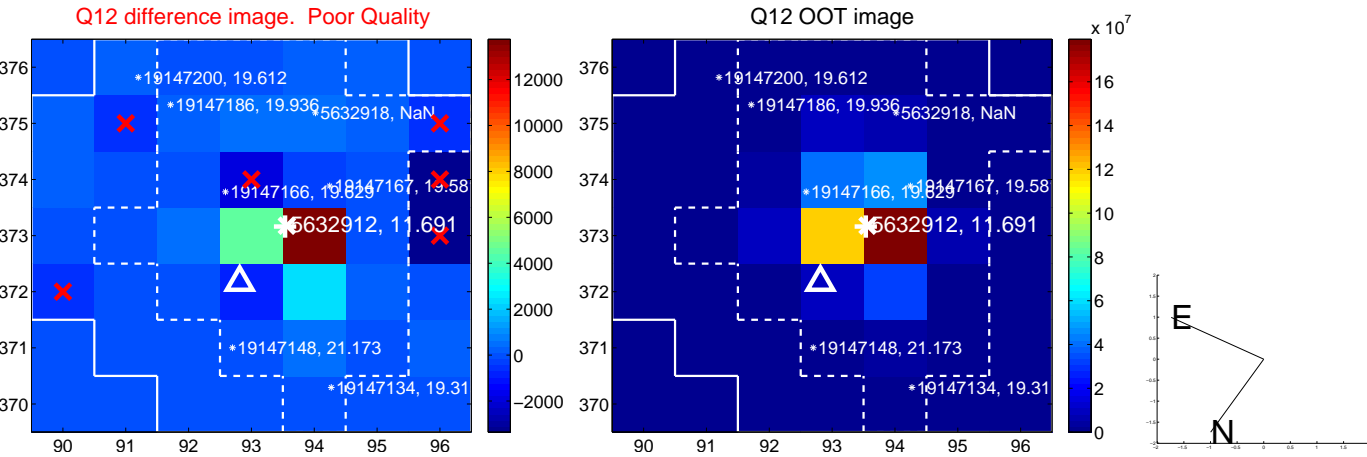
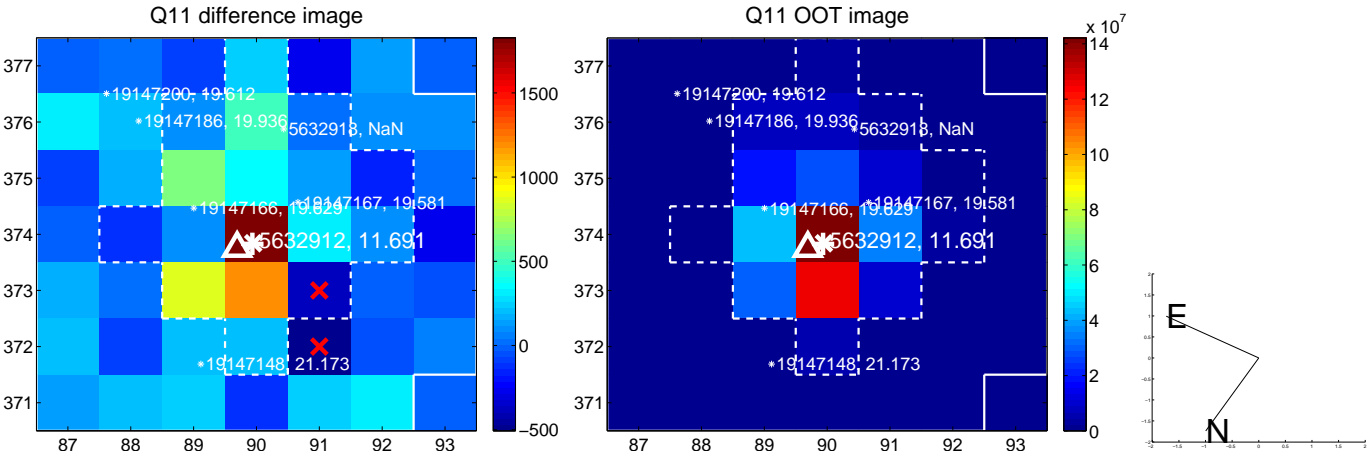
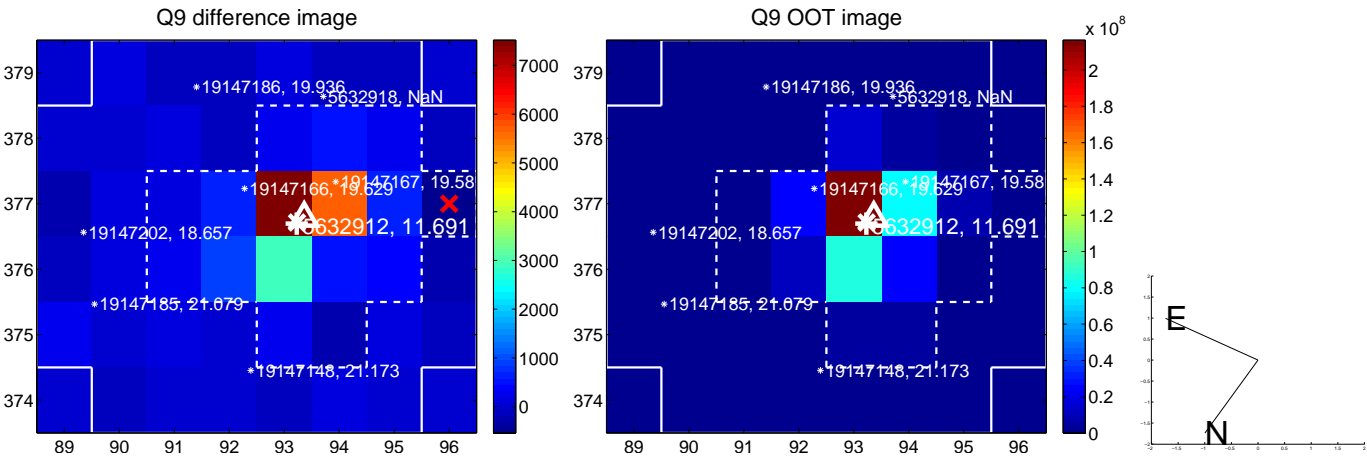
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



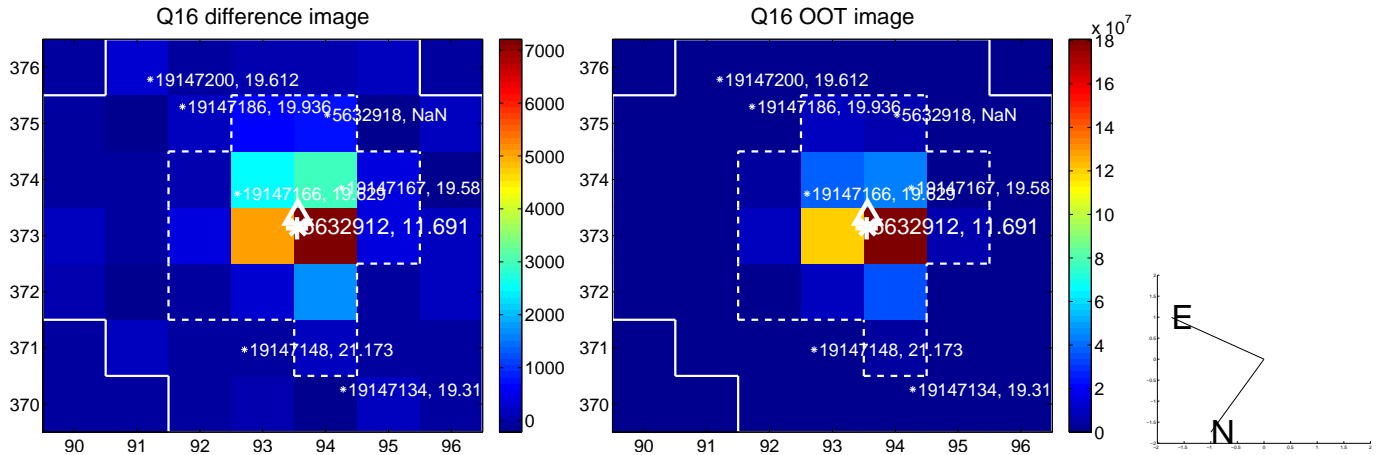
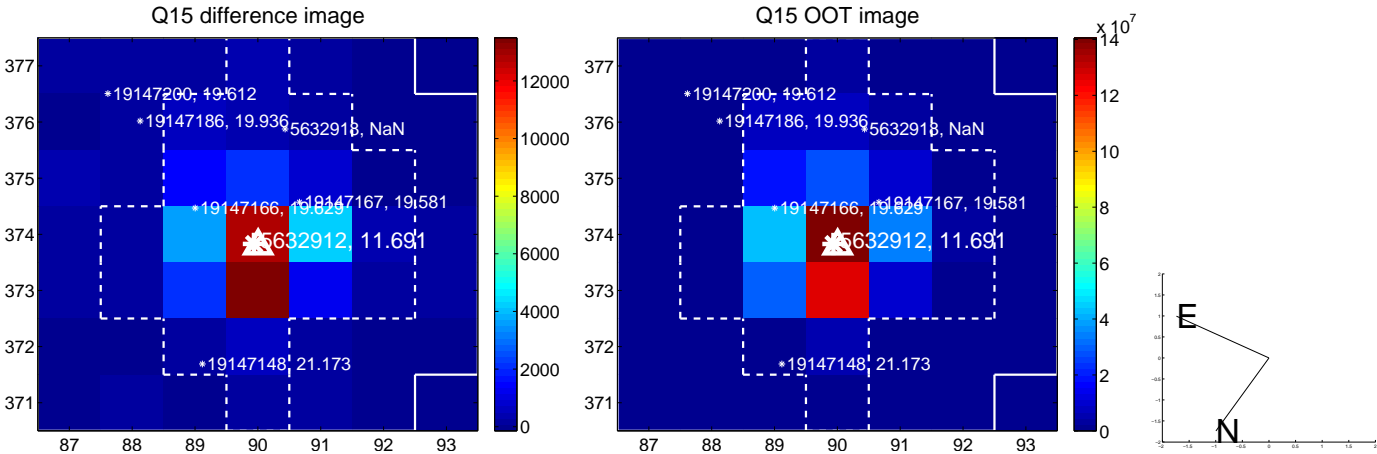
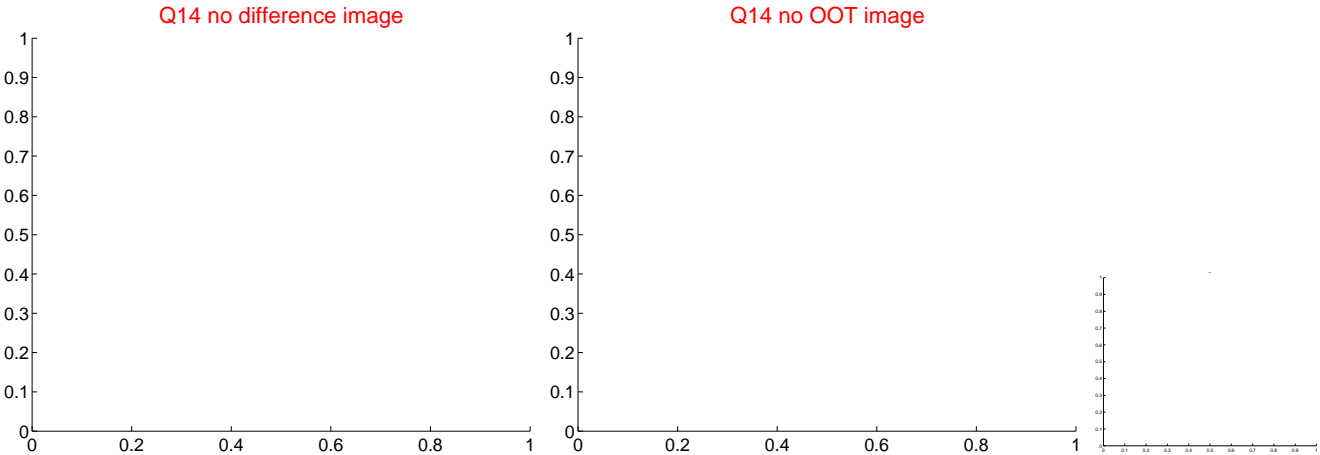
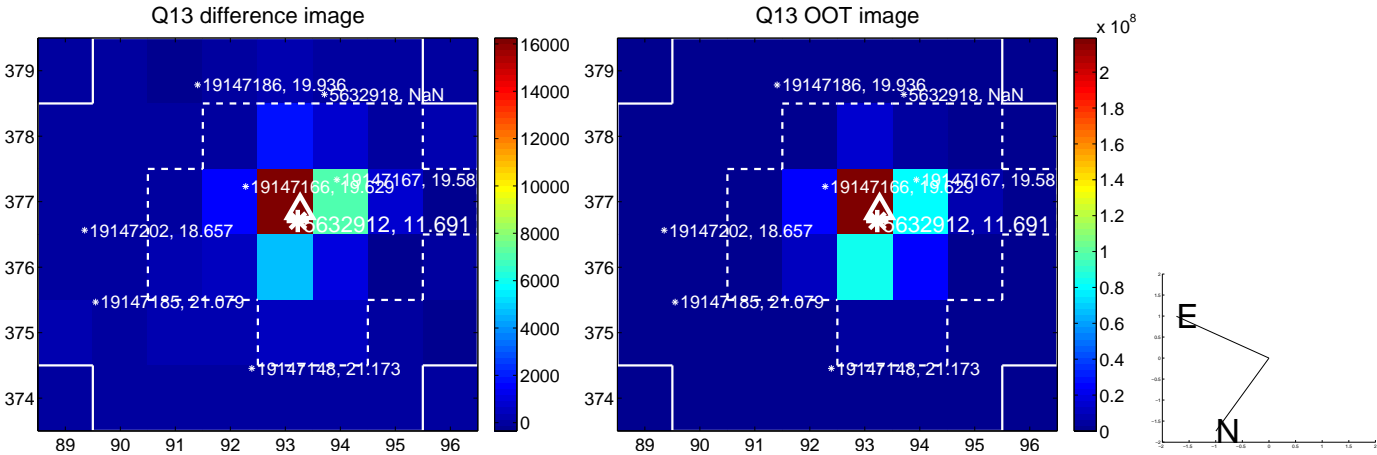
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



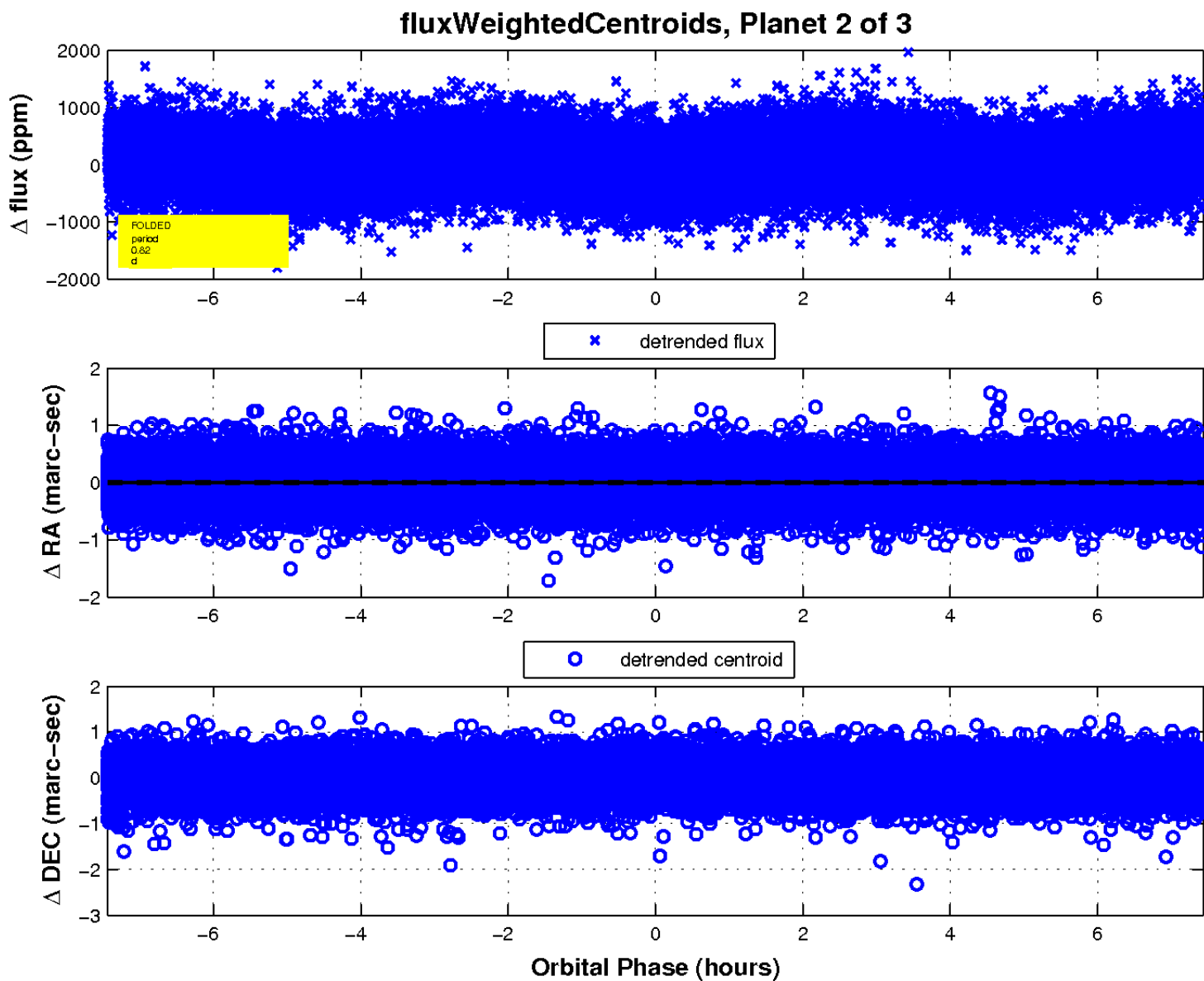
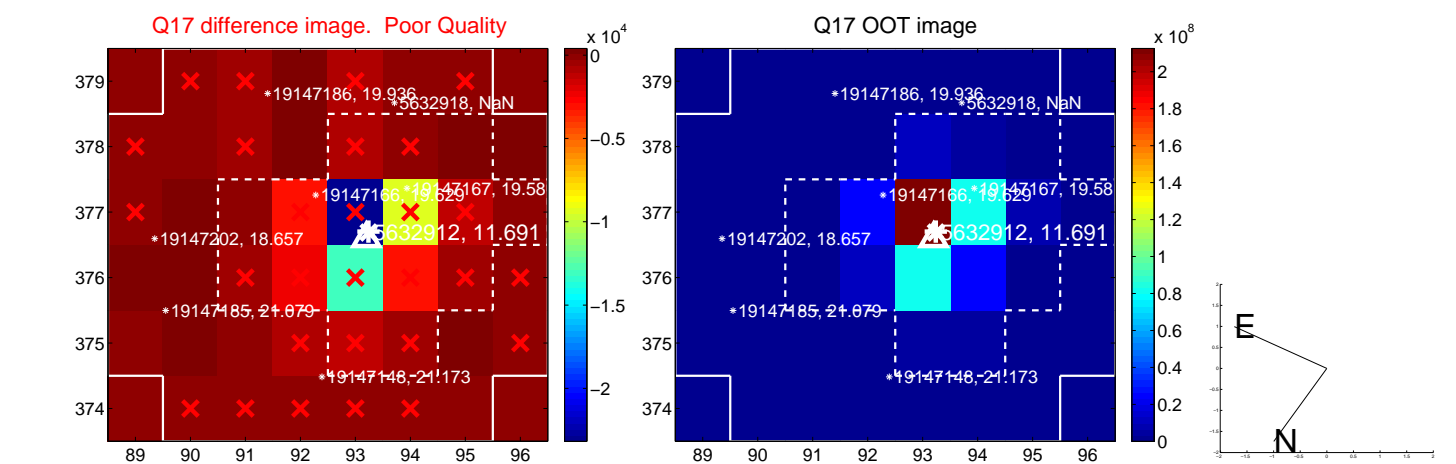
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

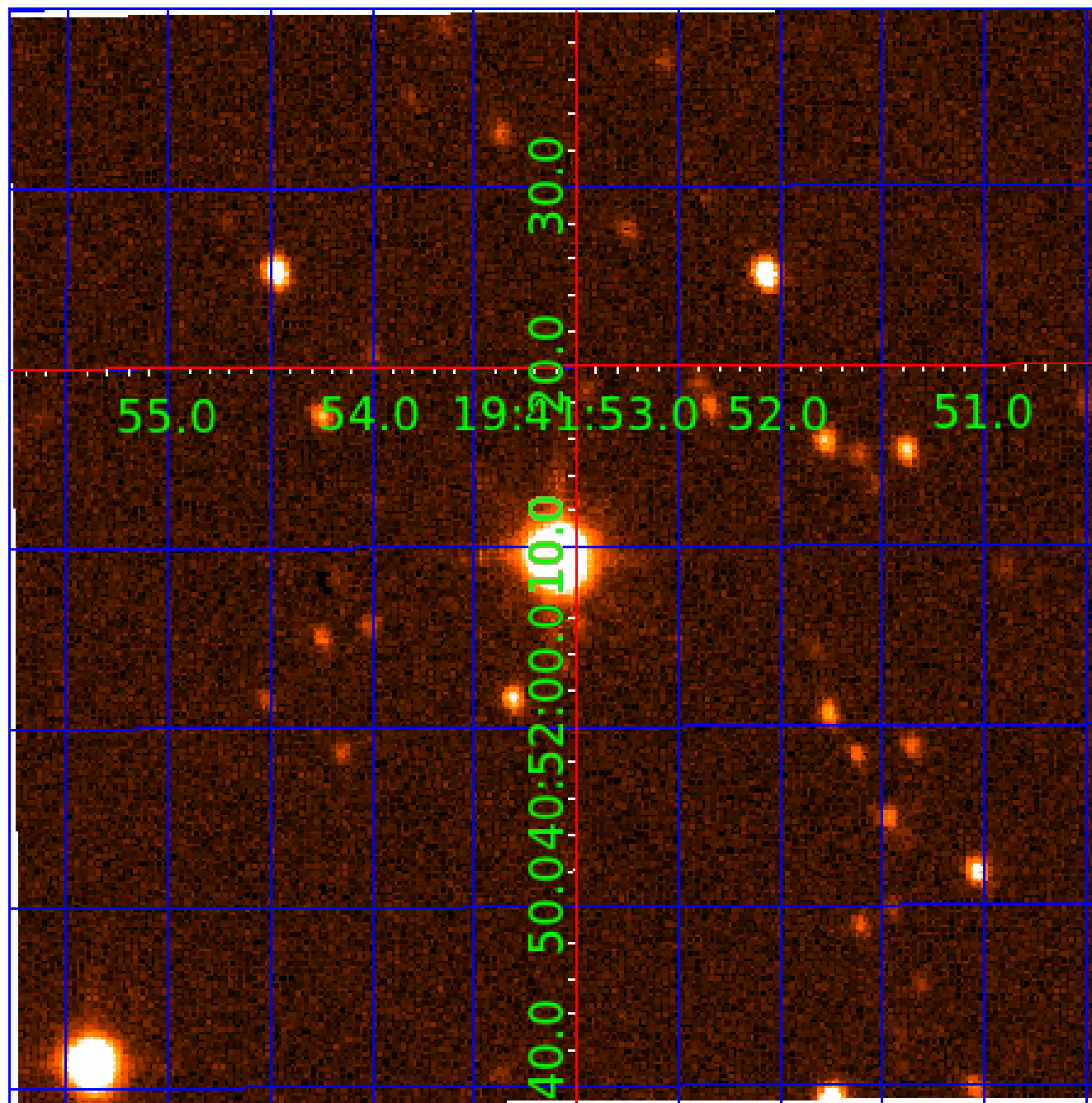


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005632912

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})
005632912-01	OBS	No	0.822959	131.628435	119.7	2.700	15.9	17.6	3.99	7596	5.09	106035.37
005632912-02	OBS	No	0.822948	132.046789	113.7	2.480	17.4	18.0	3.99	7596	4.96	106037.36
005632912-03	OBS	No	0.579409	131.513277	154.2	2.000	12.2	-1.0	3.99	7596	5.01	169293.88

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005632912-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005632912-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
005632912-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—CENT_NOFITS

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

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

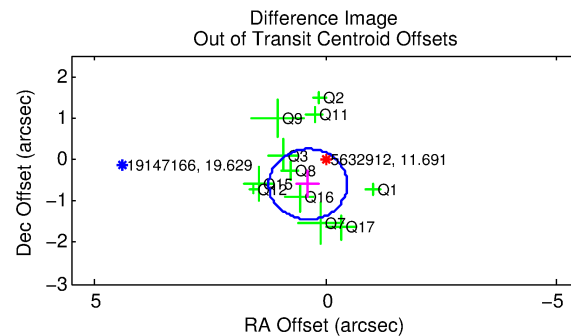
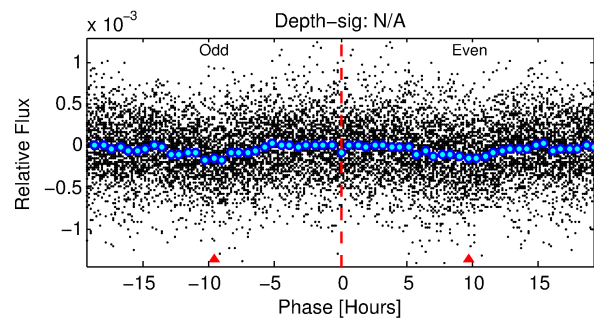
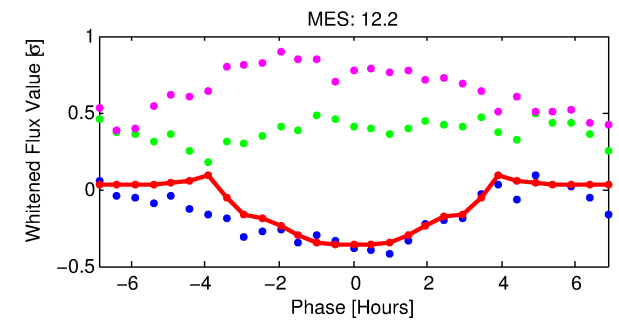
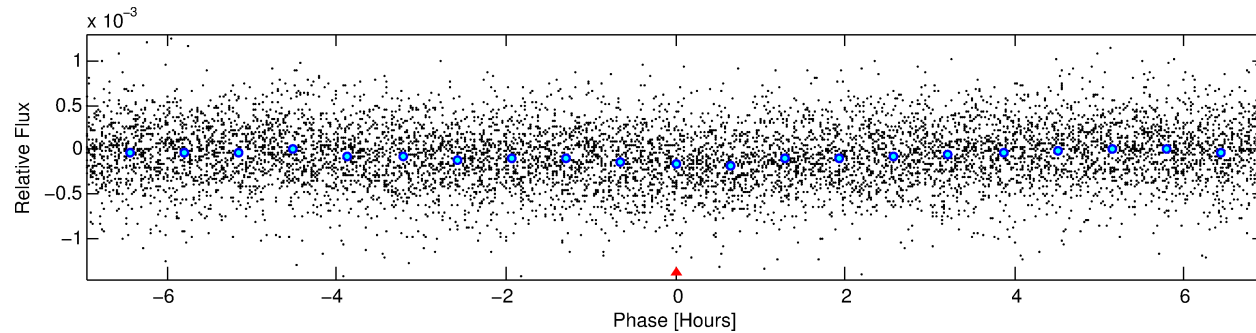
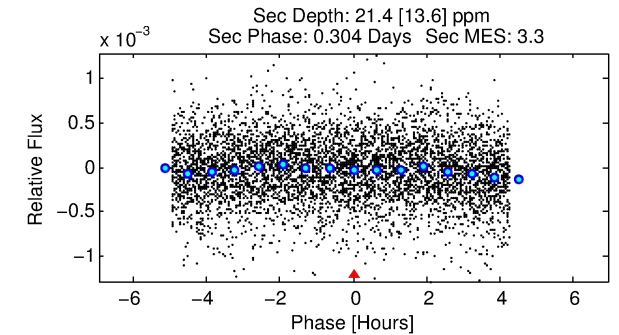
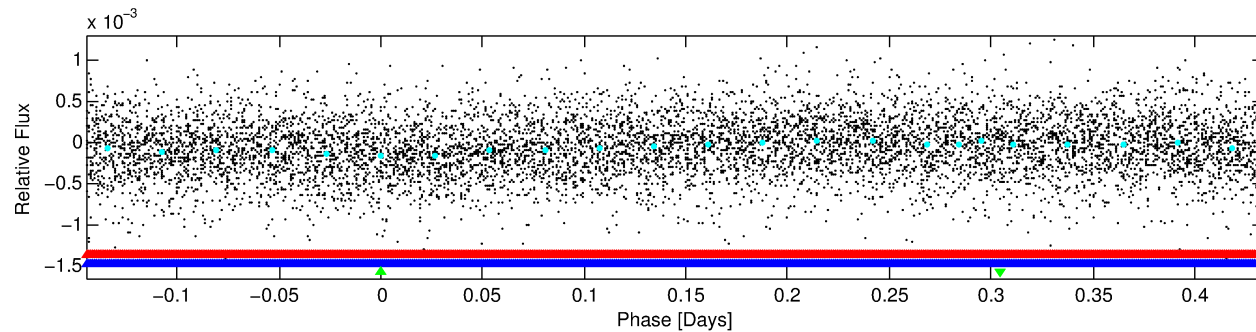
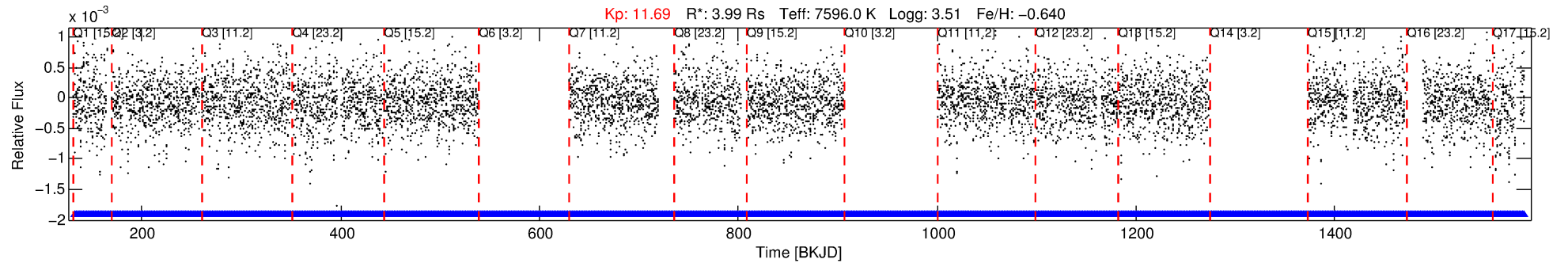
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005632912-03

No Significant Match Found

DV One-Page Summary

KIC: 5632912 Candidate: 3 of 3 Period: 0.579 d



TPS TCE Results:

Period = 0.57941 d
Epoch = 131.5133 BKJD

DV fit results are unavailable

DV Diagnostic Results:

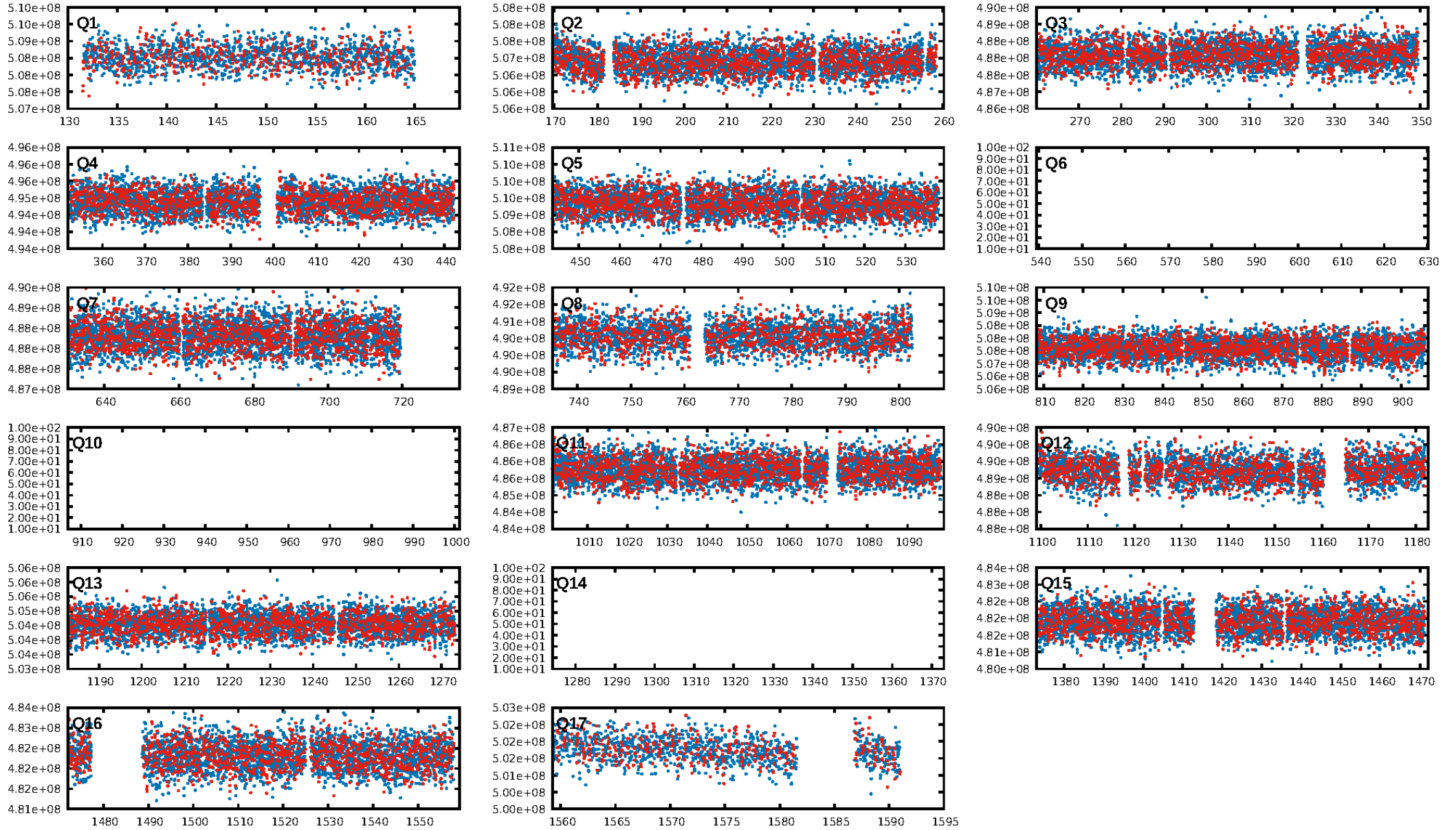
ShortPeriod-sig: N/A
LongPeriod-sig: 93.3% [1.83 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [836/836]
GhostDiagnostic-chr: 0.3862

Centroid-sig: N/A
Centroid-so: 0.109 arcsec [2.16 σ]
OotOffset-rm: 0.708 arcsec [2.51 σ]
KicOffset-rm: 0.468 arcsec [2.06 σ]
OotOffset-st: 1/4/3/3 [11]
KicOffset-st: 1/4/3/3 [11]
DiffImageQuality-fgm: 0.64 [7/11]
DiffImageOverlap-fno: 0.00 [0/14]

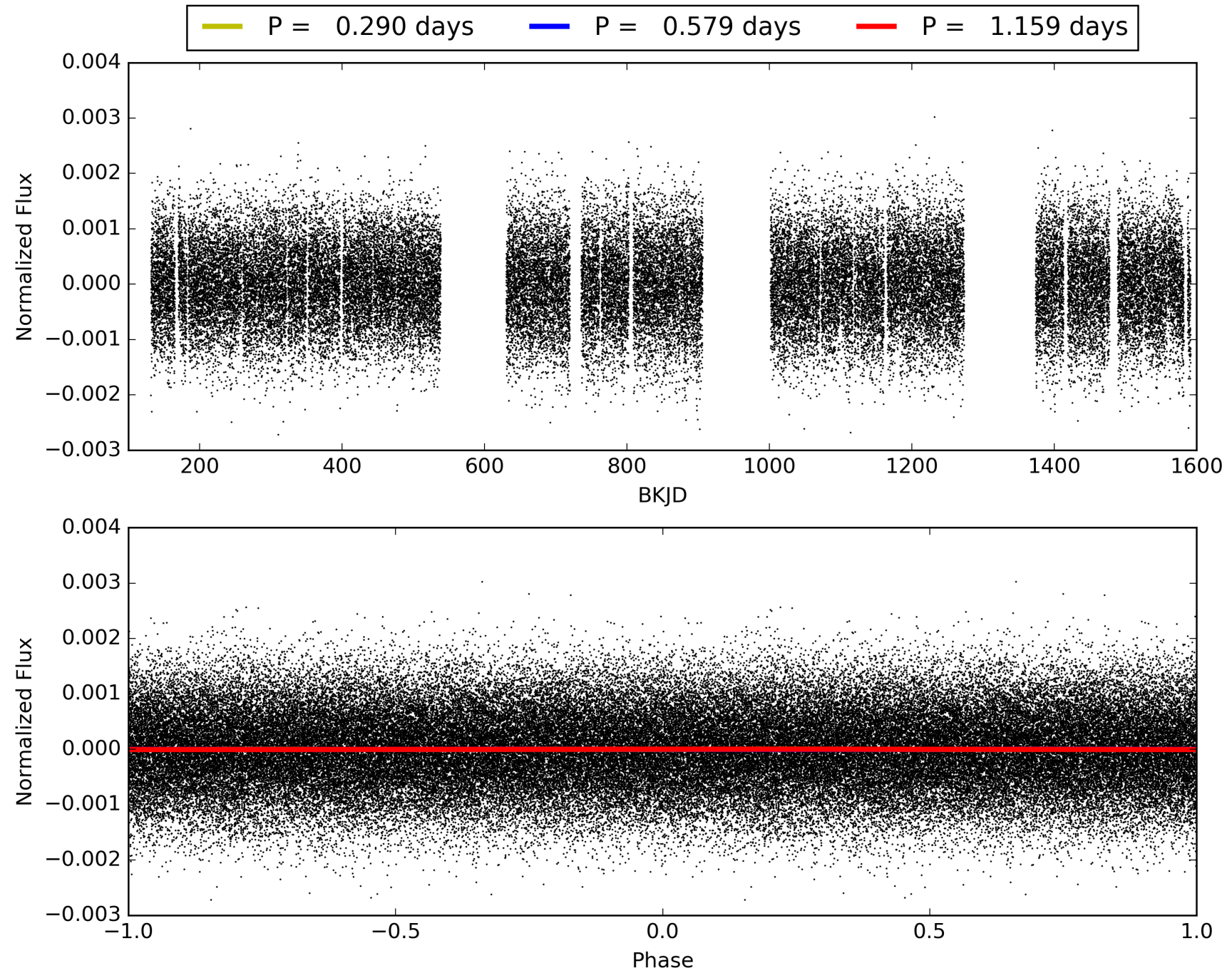
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:40:51 Z

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

TCE 005632912-03, PDC Light Curves

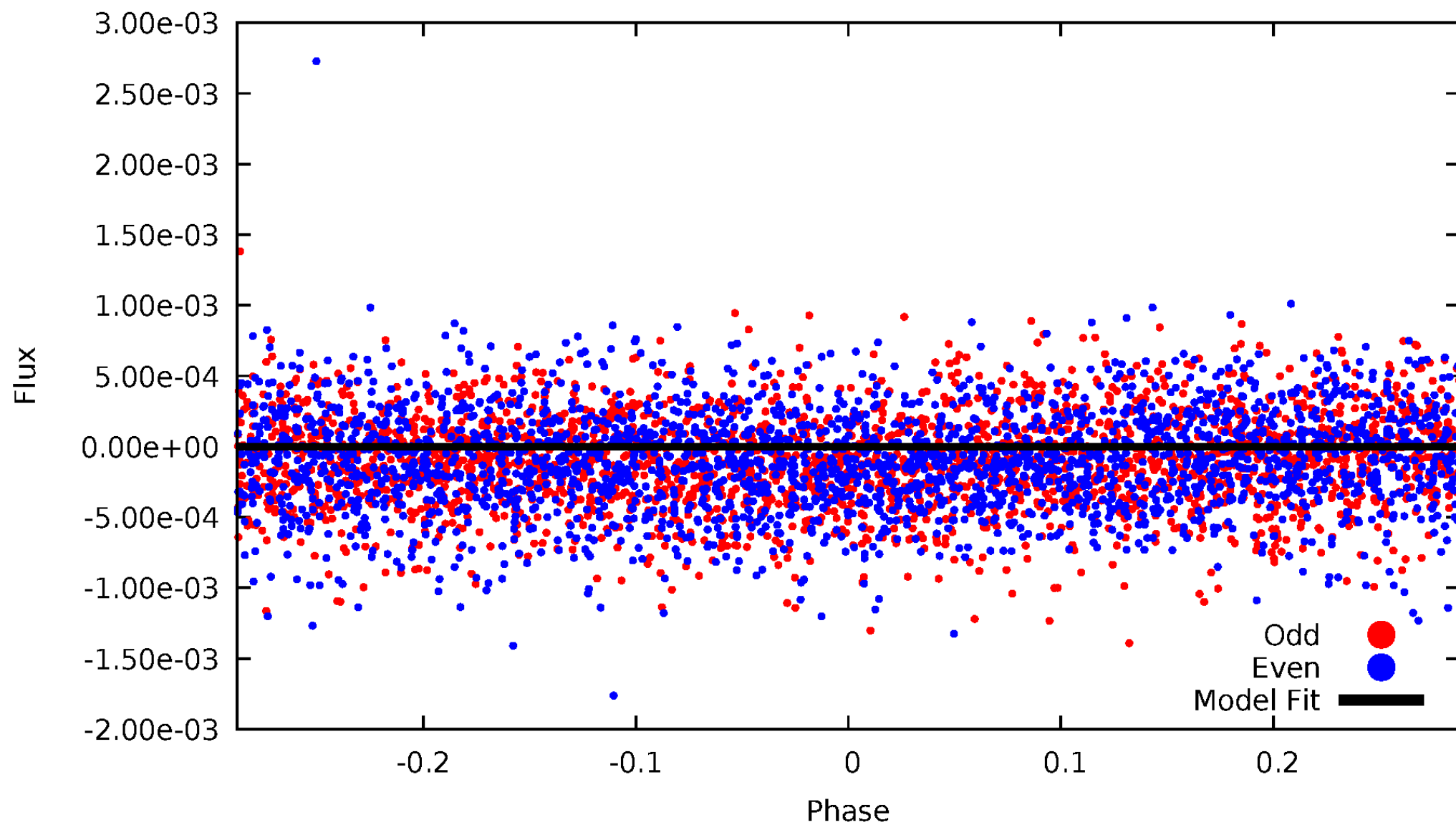


TCE 005632912-03



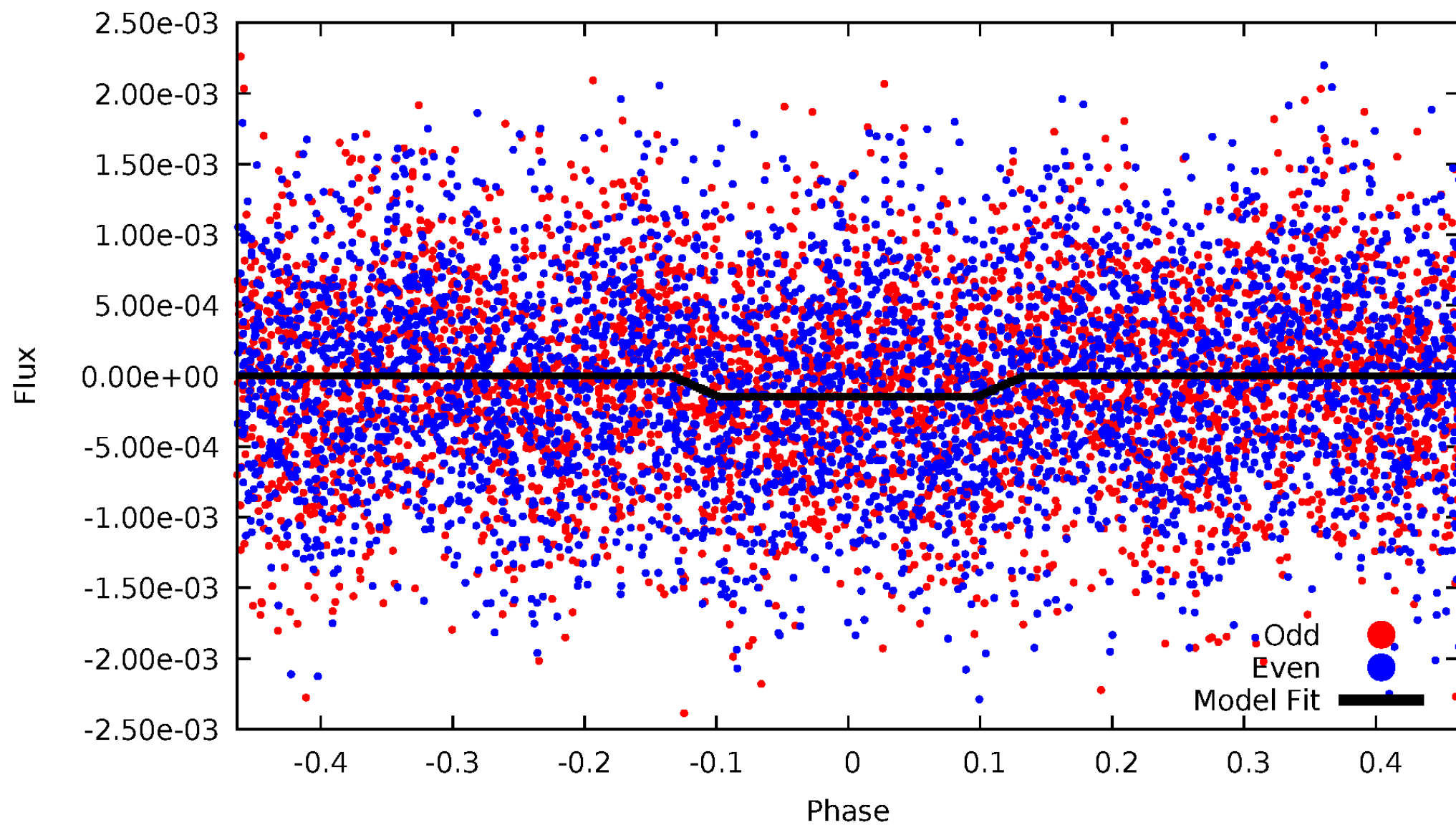
DV Odd/Even

TCE 005632912-03

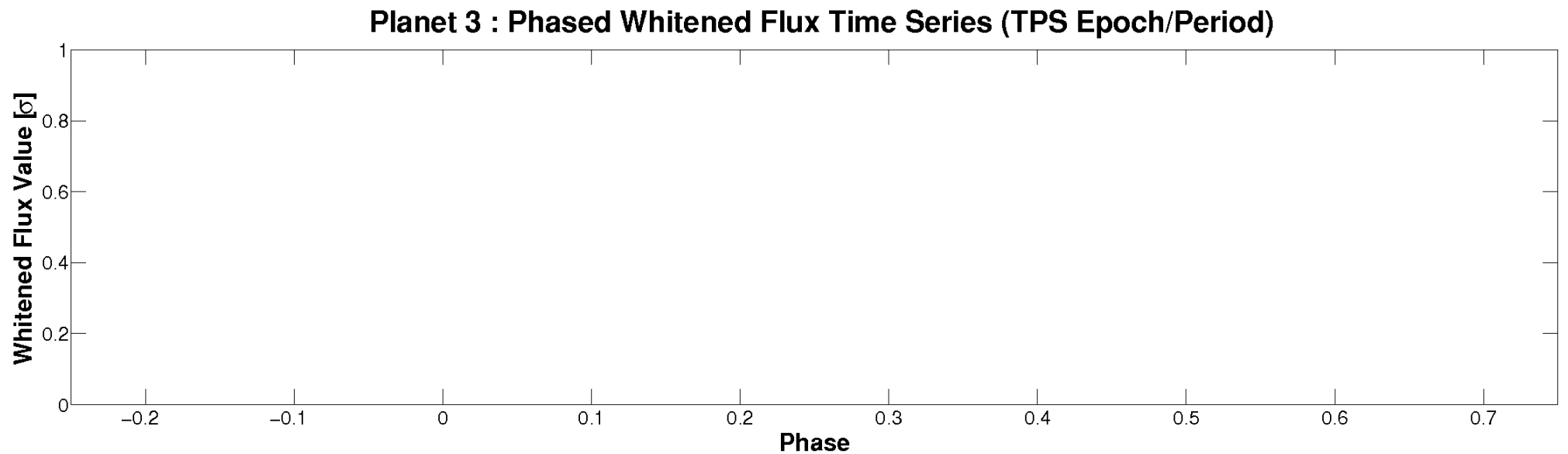
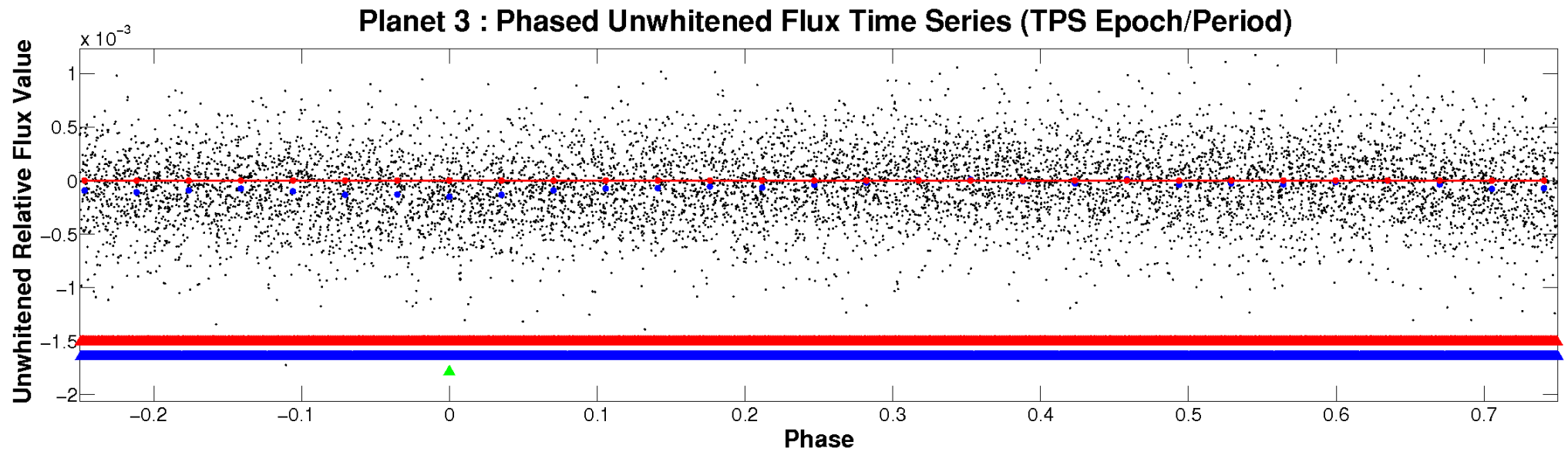


ALT Odd/Even

TCE 005632912-03

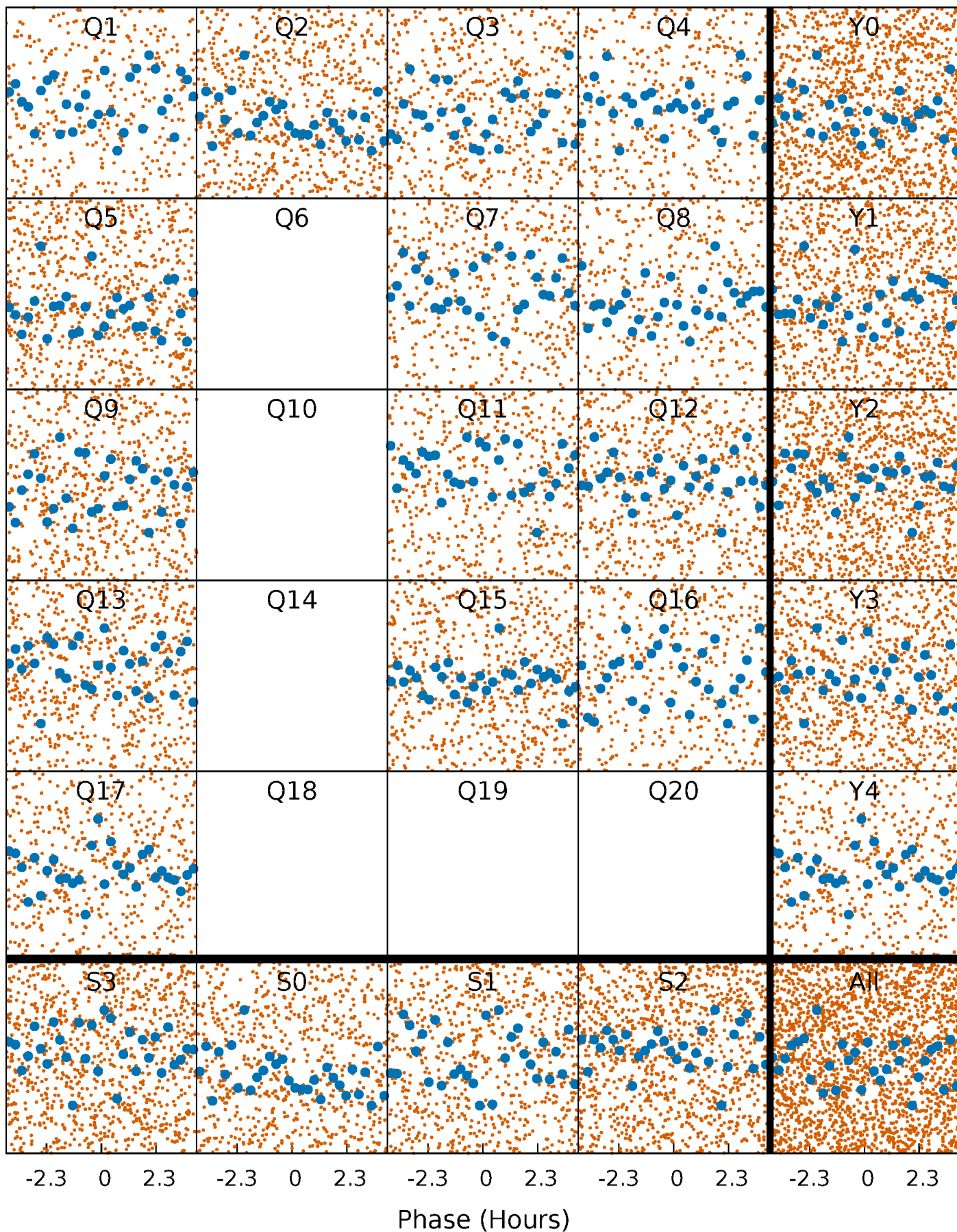


Non-Whitened Vs. Whitened Light Curve



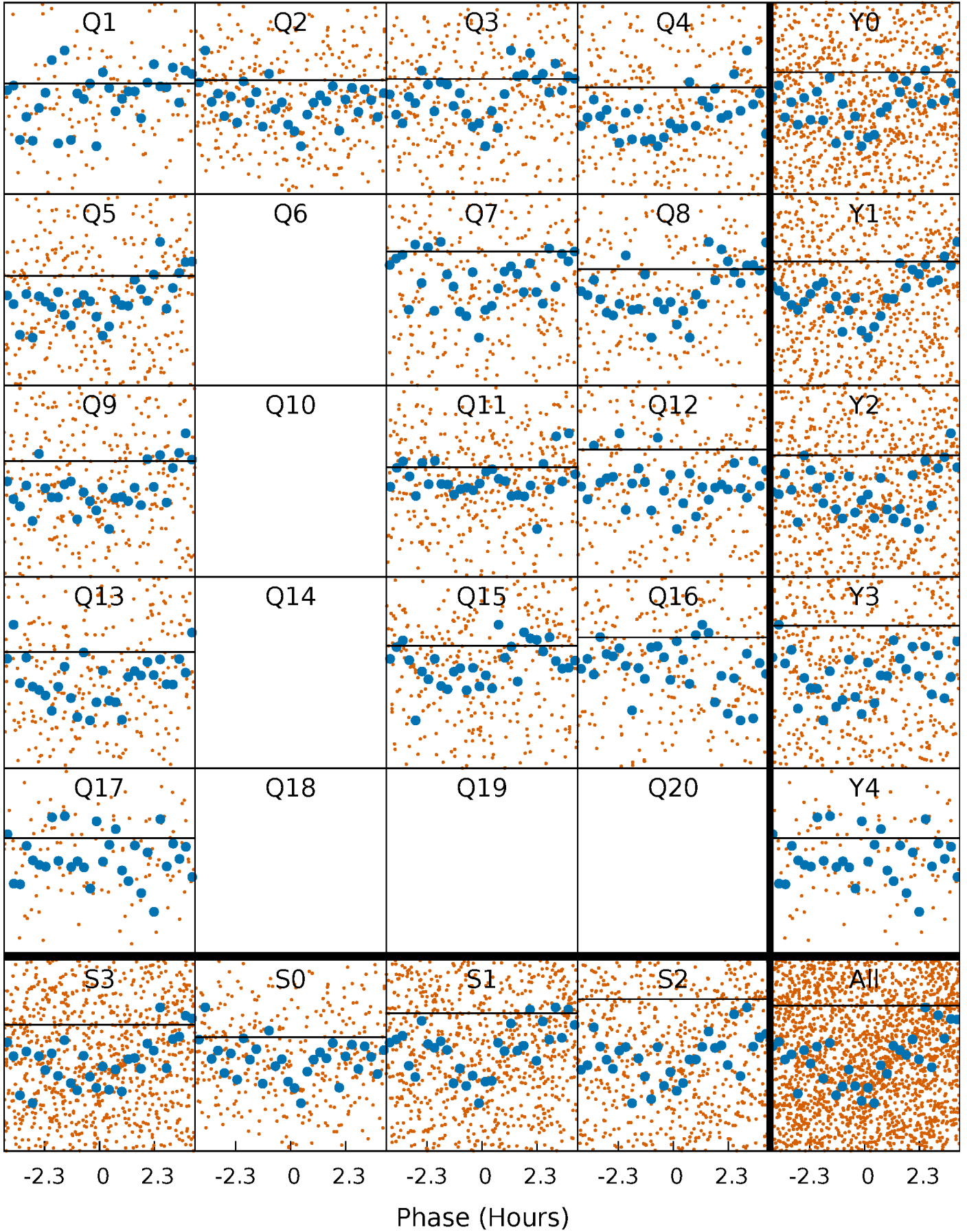
PDC Quarter-Phased Transit Curves

TCE 005632912-03 P= 0.579409 Days $T_0=131.513277$ (BKJD)



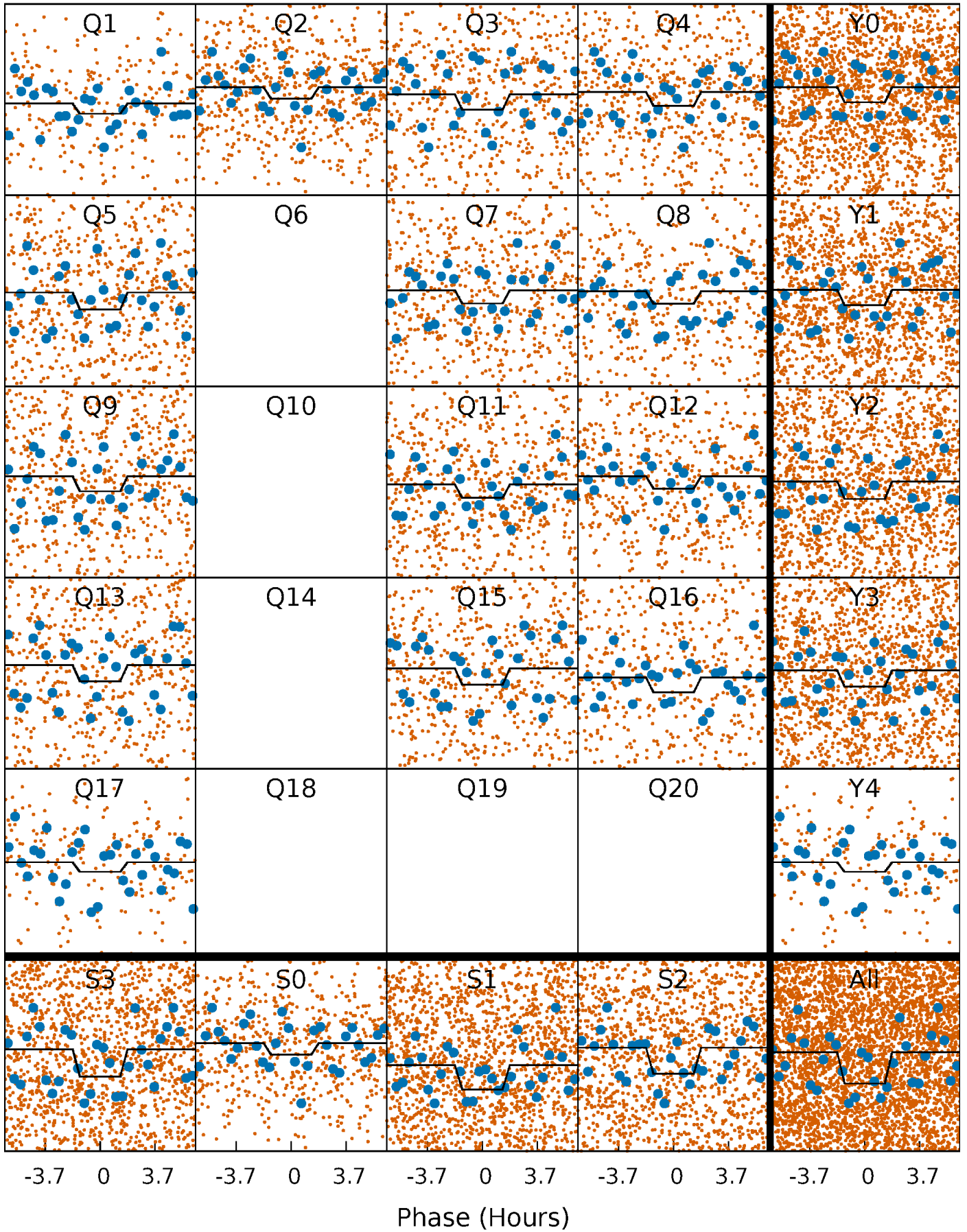
DV Quarter-Phased Transit Curves

TCE 005632912-03 P= 0.579409 Days $T_0=131.513277$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

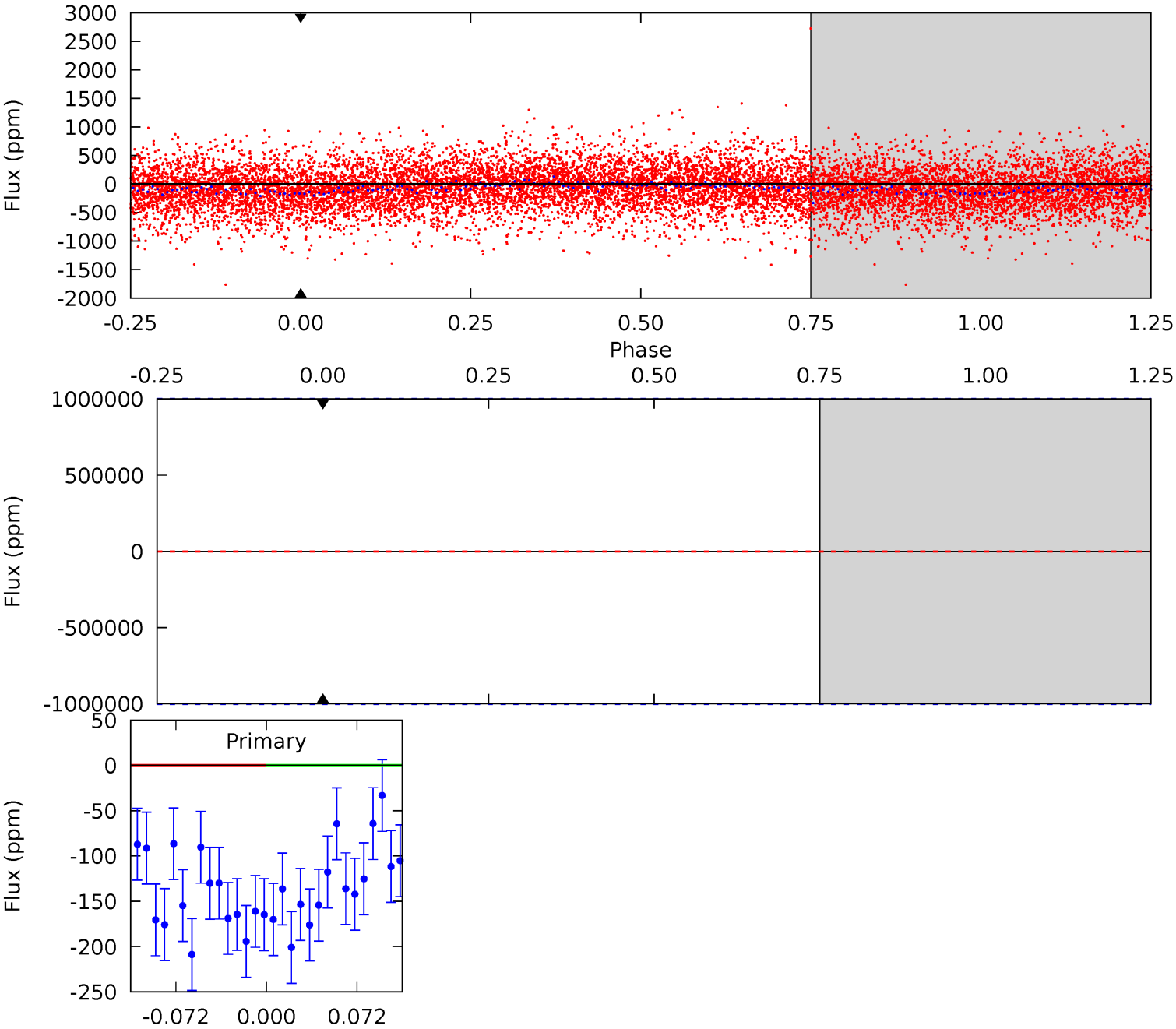
TCE 005632912-03 P= 0.579409 Days $T_0=132.077458$ (BKJD)



DV Model-Shift Uniqueness Test

005632912-03, P = 0.579409 Days, E = 131.513277 Days

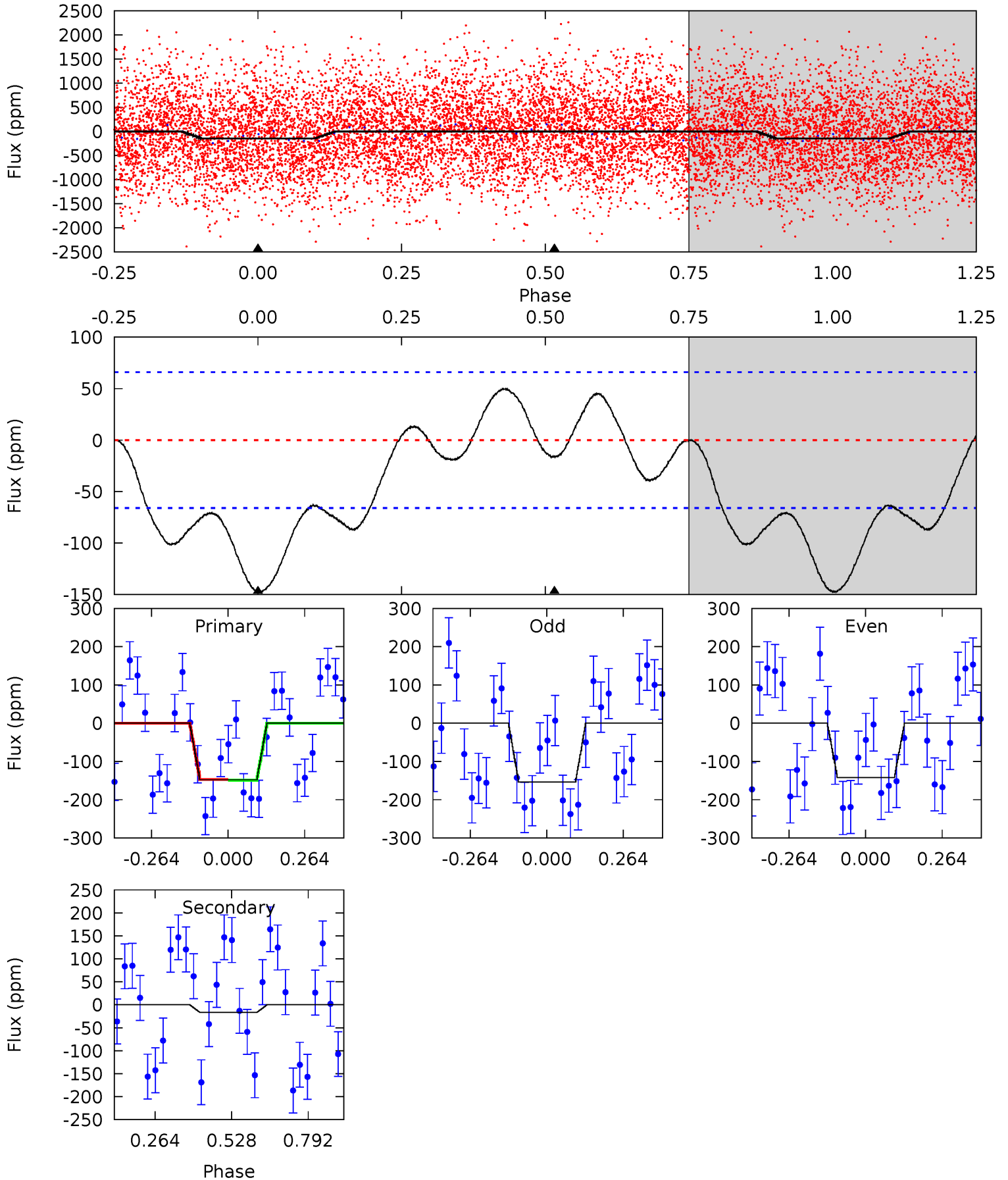
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005632912-03, P = 0.579409 Days, E = 131.498049 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.78	1.11	0	0	4.36	1.12	0.62	9.78	9.78	1.11	1.11	0.40	1.09	0.25	0.06



Stellar Parameters For KIC 005632912

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7596^{+244}_{-298}	$3.507^{+0.702}_{-0.078}$	$-0.640^{+0.300}_{-0.250}$	$3.991^{+0.286}_{-2.573}$	$1.865^{+0.109}_{-0.653}$	$0.041^{+0.510}_{-0.010}$
	+3%/-4%	+20%/-2%	+47%/-39%	+7%/-64%	+6%/-35%	+1236%/-25%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005632912-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$27.46^{+33.83}_{-19.82}$	6978^{+484}_{-1115}	-5125^{+47810}_{-36606}	$0.111^{+36.519}_{-39.148}$
Alt.	-17 ± 15	$28.43^{+33.58}_{-20.62}$	7012^{+454}_{-1095}	-5585^{+1021}_{-386}	$0.002^{+0.031}_{-0.002}$

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

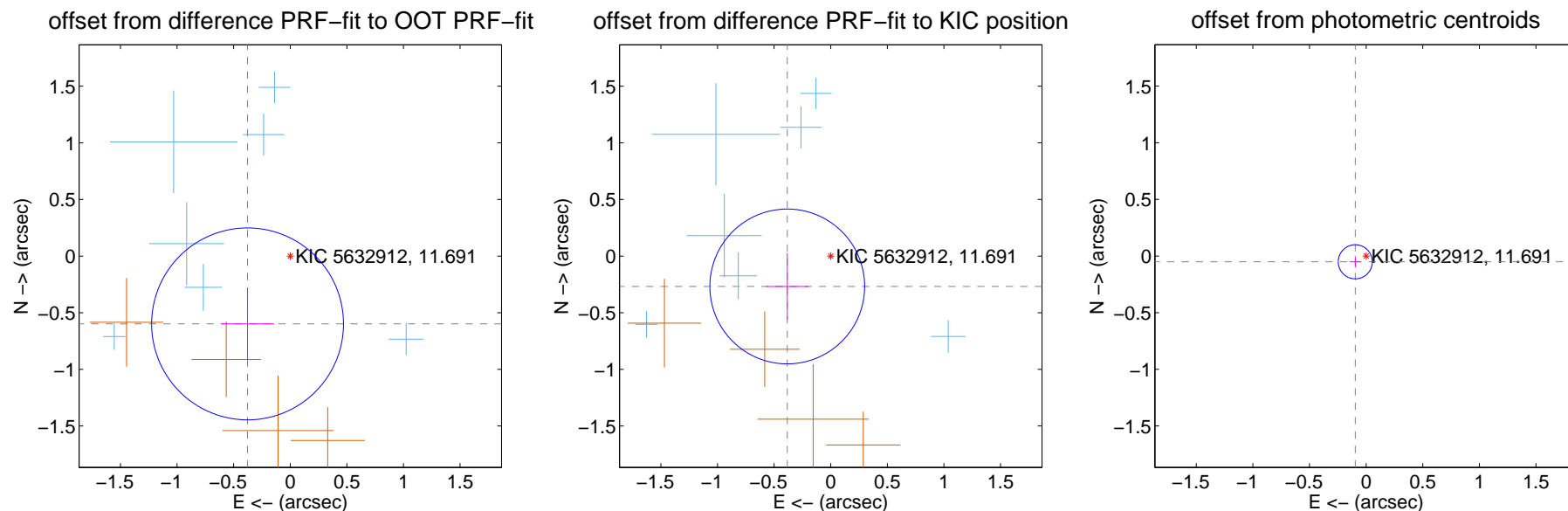
DV Centroid Data

Supplemental centroid analysis for 005632912-03. **Kepler magnitude: 11.69.** Transit SNR -1.00

There are 7 quarters with good PRF difference image offsets

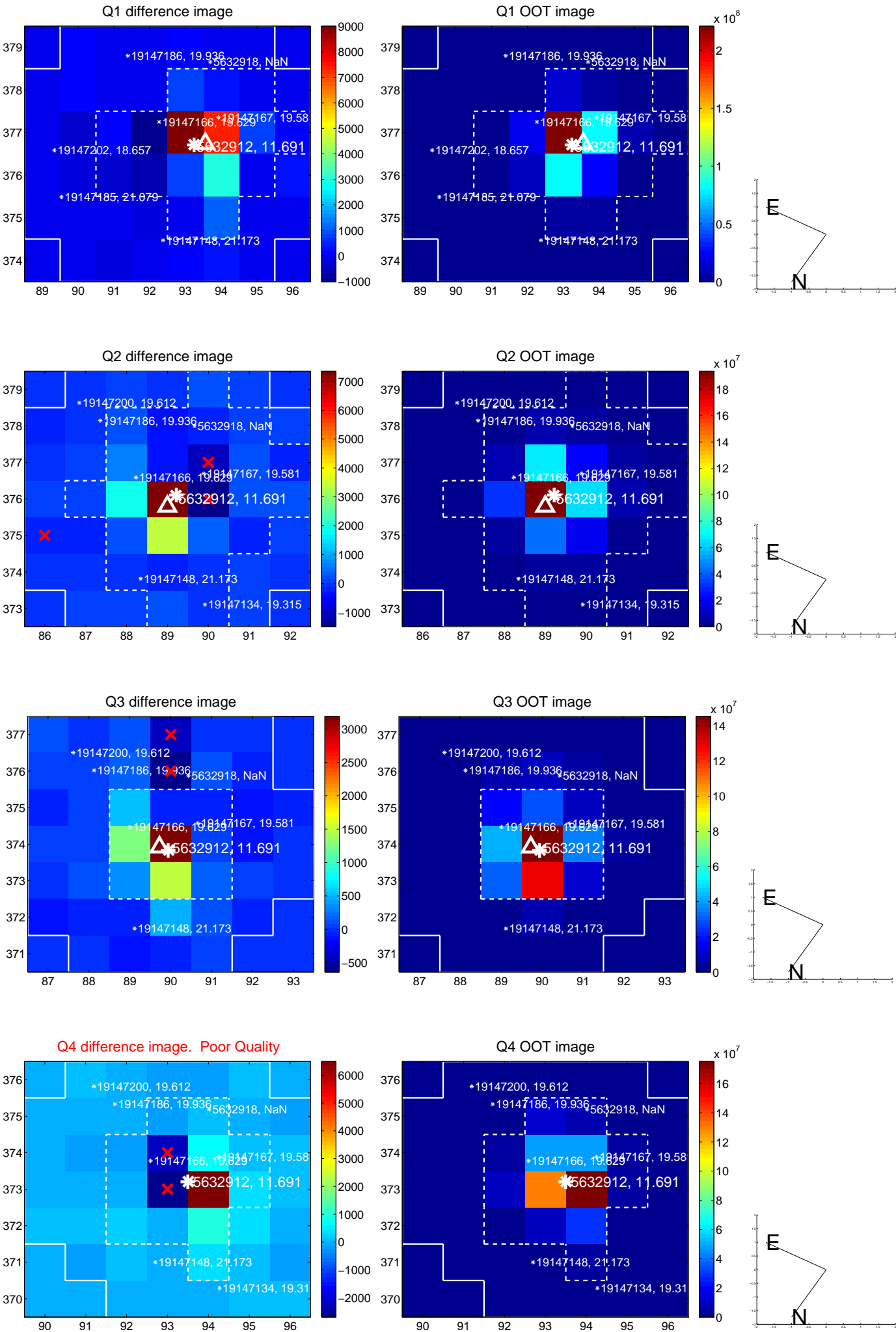
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.708 ± 0.282	2.51	0.377 ± 0.234	-0.599 ± 0.316
PRF-fit source offset from KIC position	0.468 ± 0.228	2.06	0.384 ± 0.187	-0.268 ± 0.295
photometric centroid source offset	0.11 ± 0.05	2.16	0.10 ± 0.05	-0.05 ± 0.05

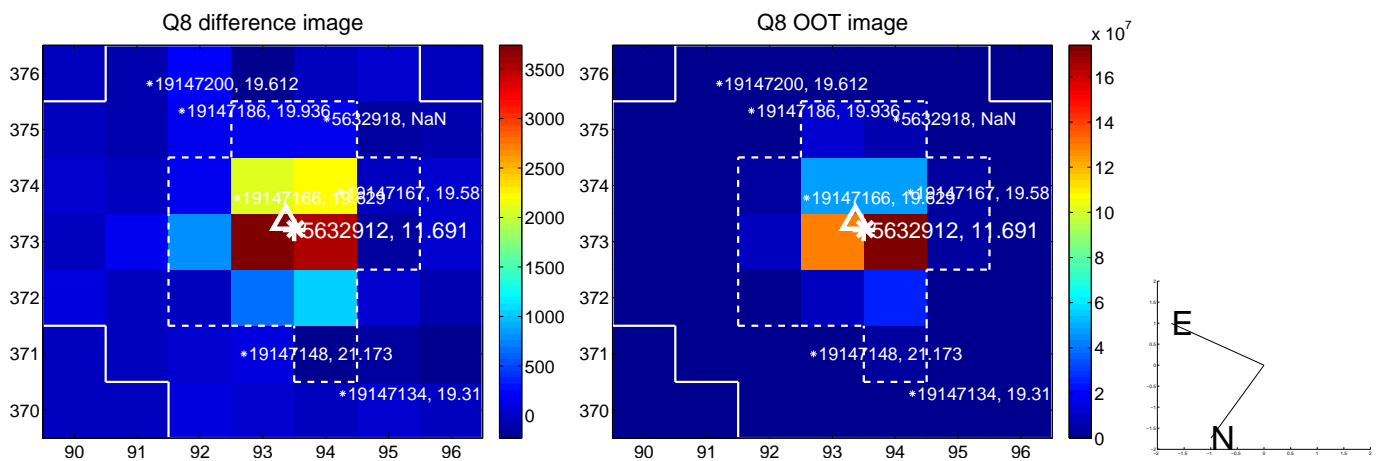
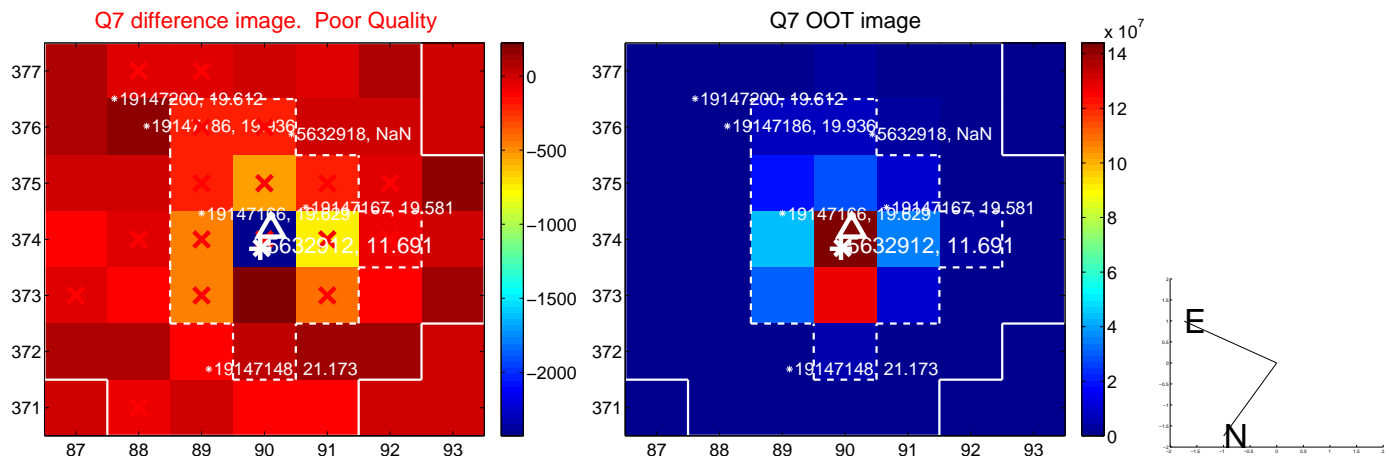
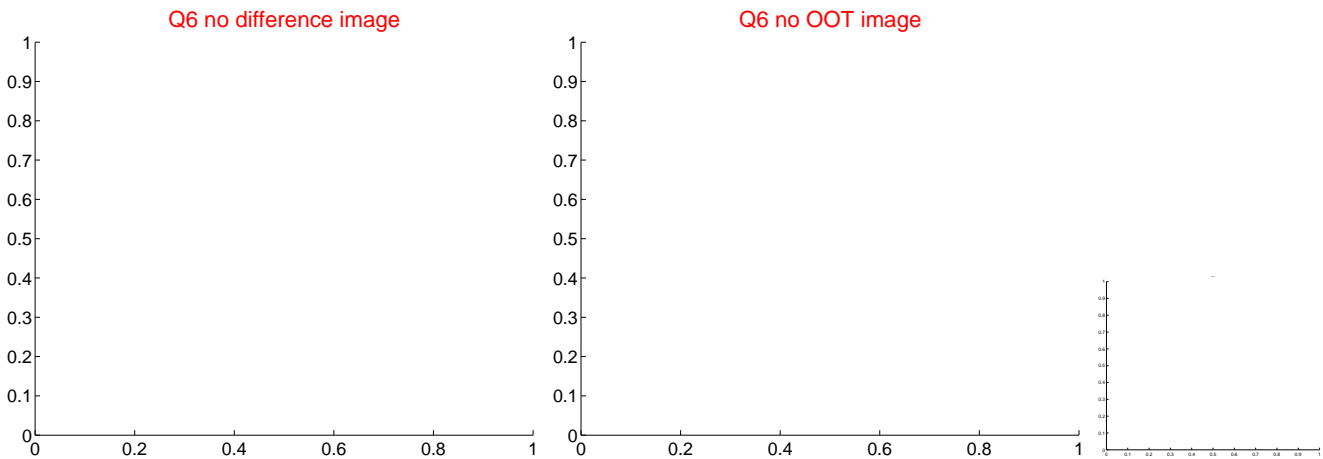
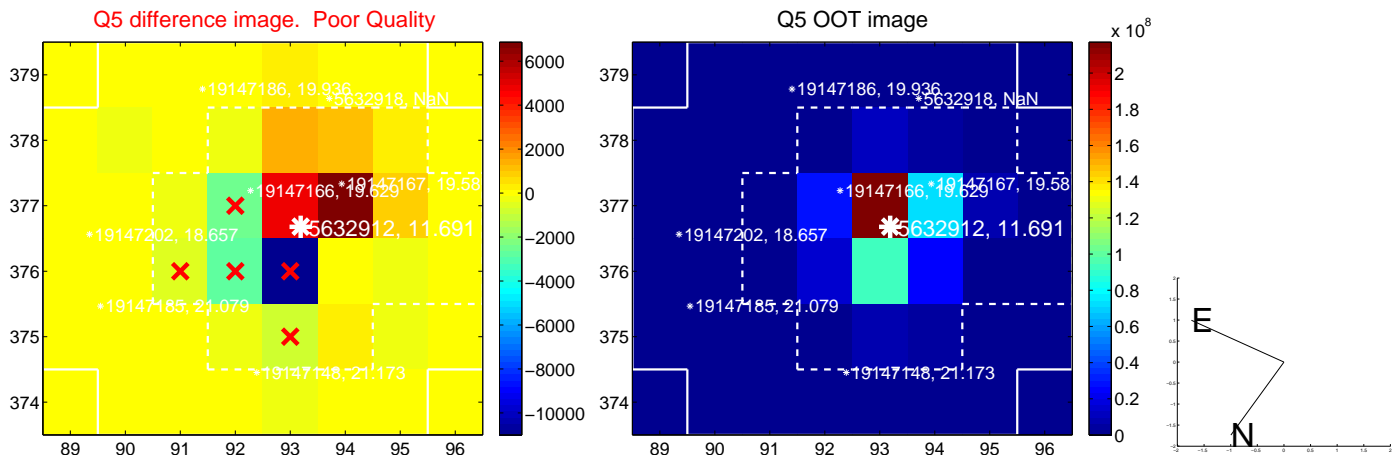


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

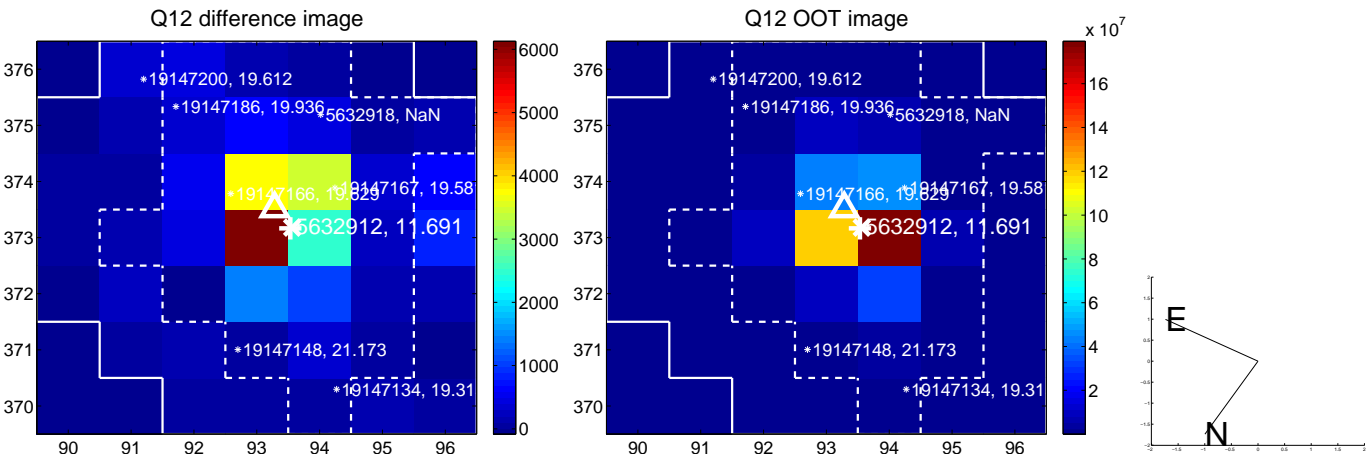
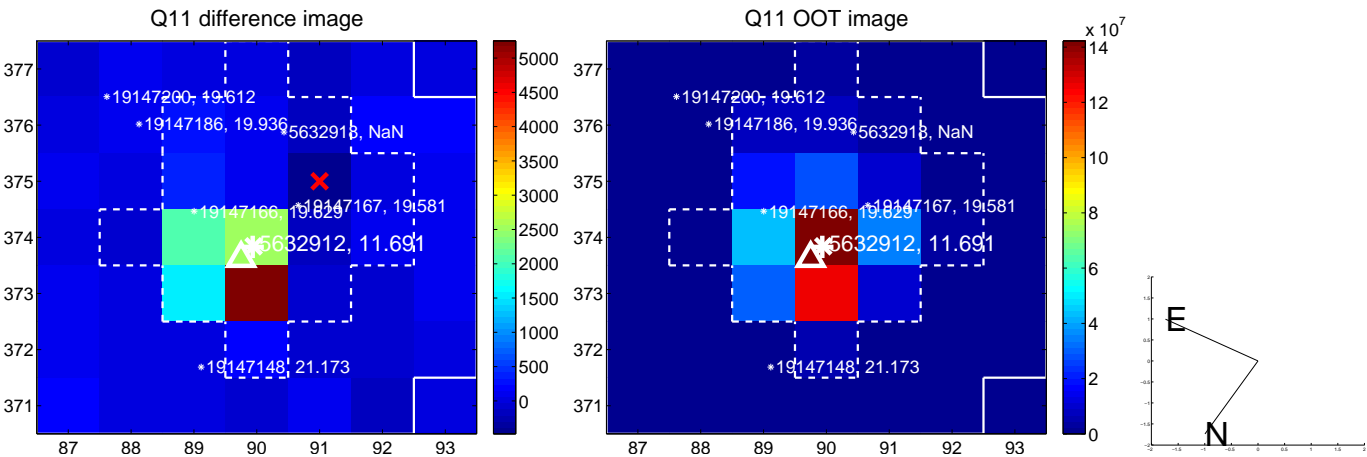
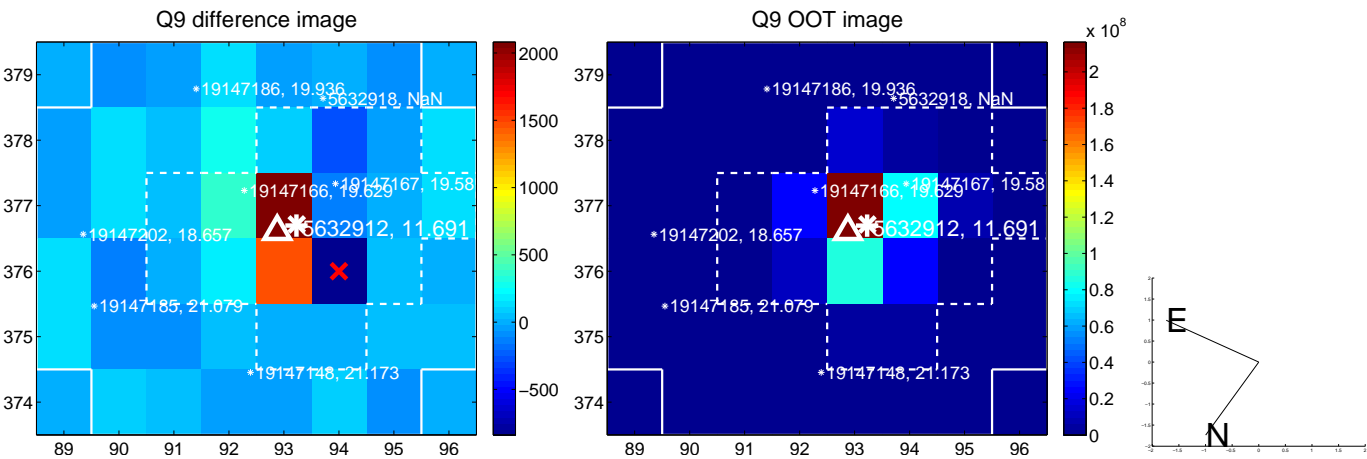
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



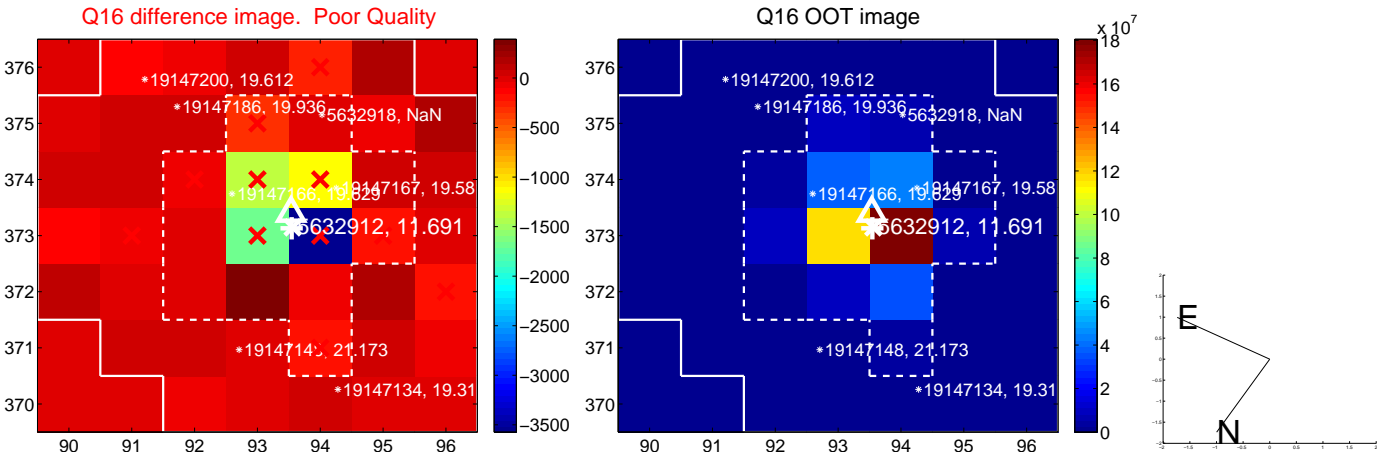
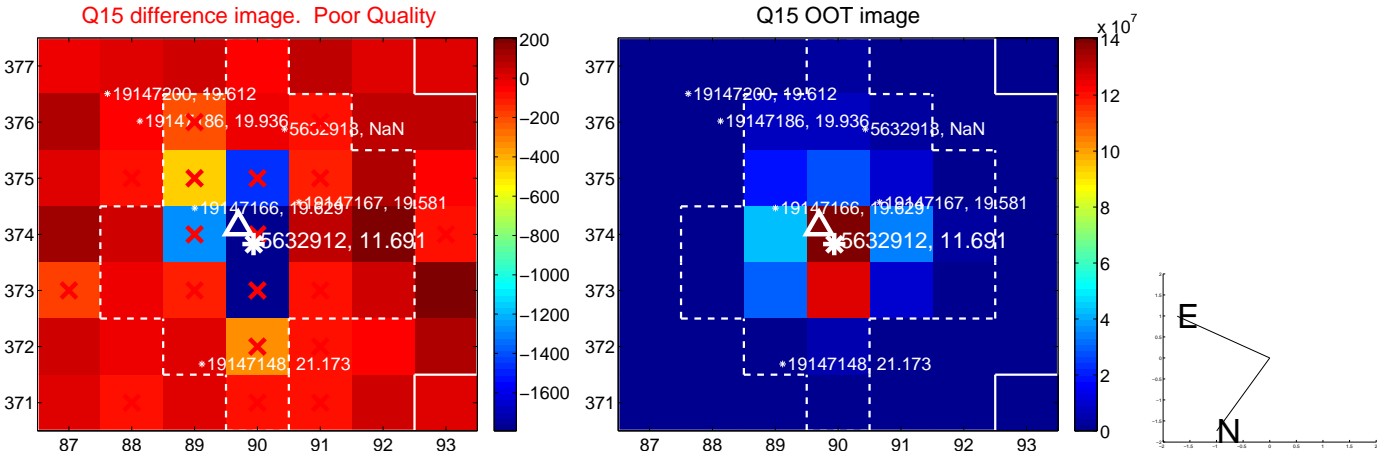
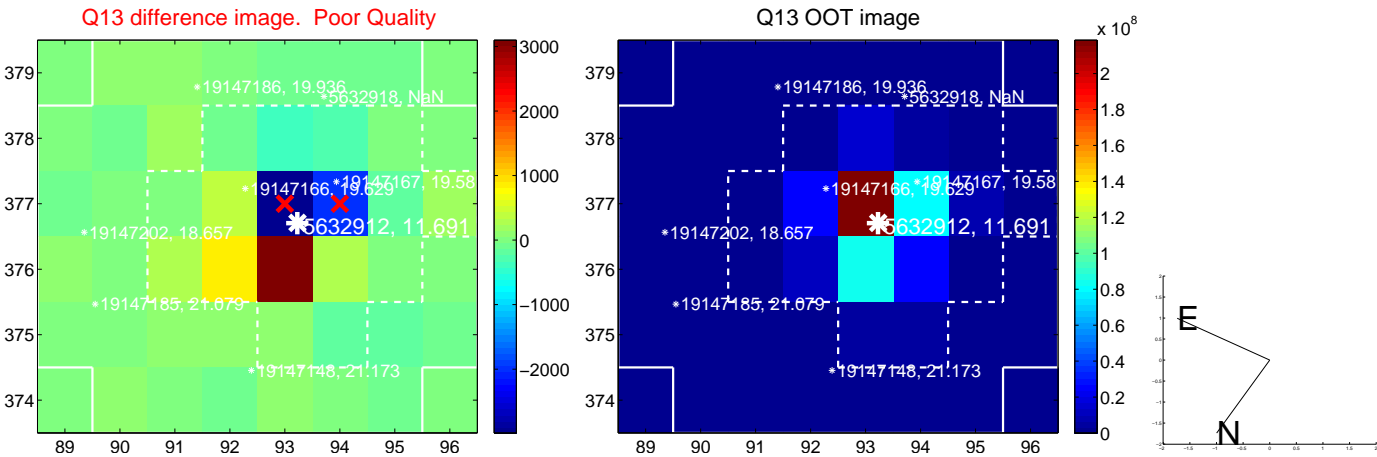
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



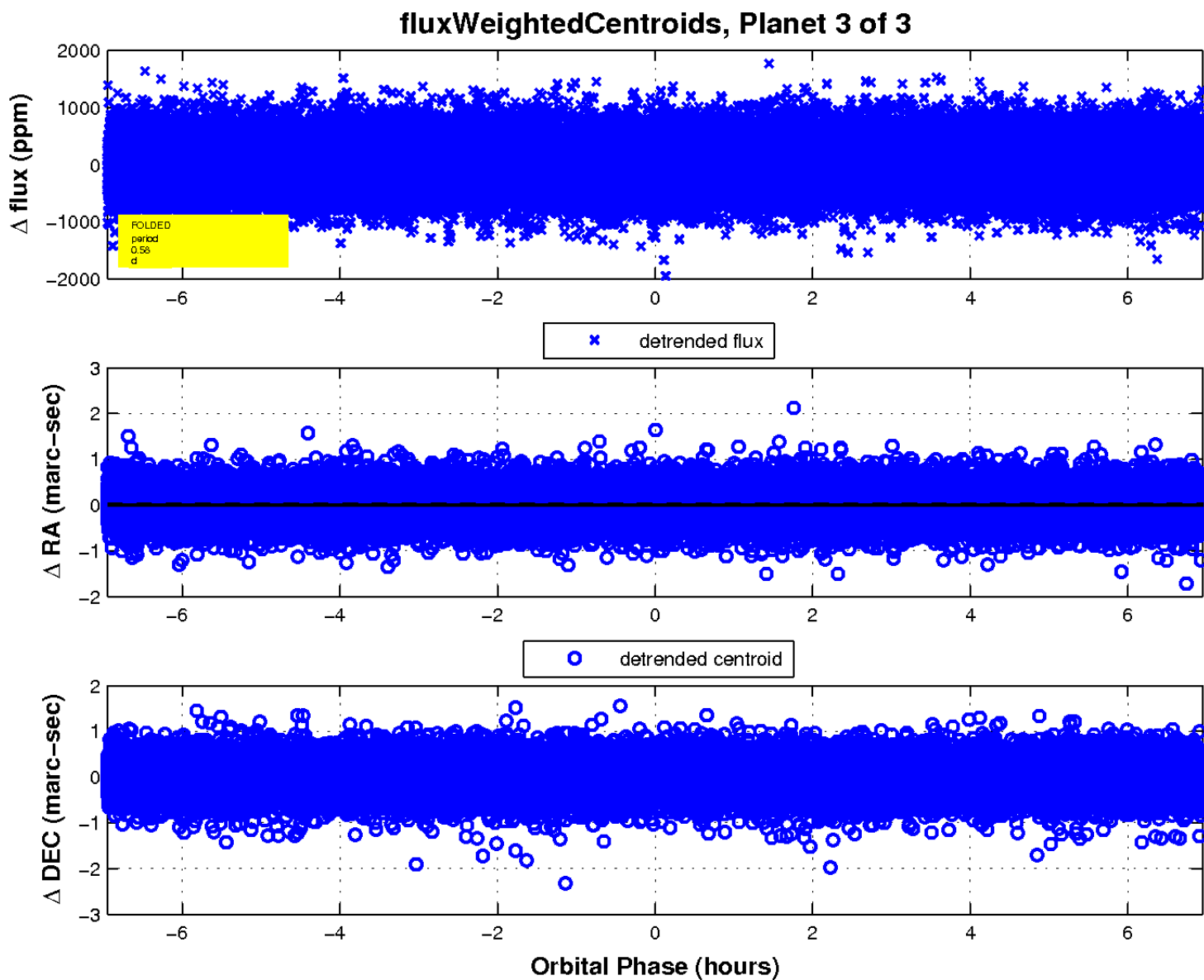
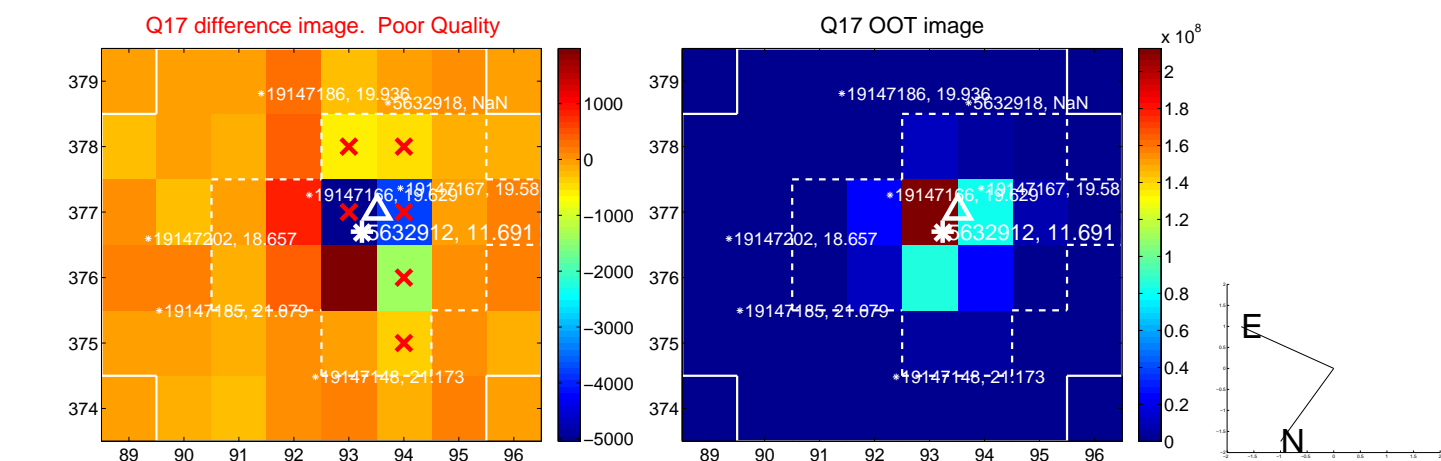
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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



UKIRT Image

Declination

