

KIC 011969092

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})
011969092-01	OBS	4375.01	0.638439	131.592244	997.8	1.500	10.5	-1.0	0.82	5073	2.53	2018.74
011969092-02	OBS	No	0.638439	131.804744	1063.1	1.500	9.6	-1.0	0.82	5073	2.61	2018.74
011969092-03	OBS	No	0.638437	132.013995	157.6	0.640	8.5	16.1	0.82	5073	1.14	2018.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011969092-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS
011969092-02	OBS	FP	0.00	1	0	0	0	LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS
011969092-03	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_UNRESOLVED_OFFSET

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 011969092-01

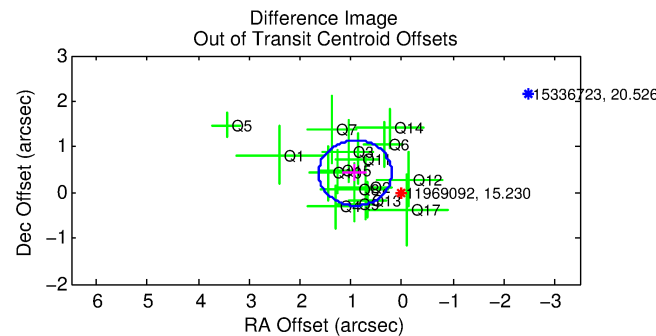
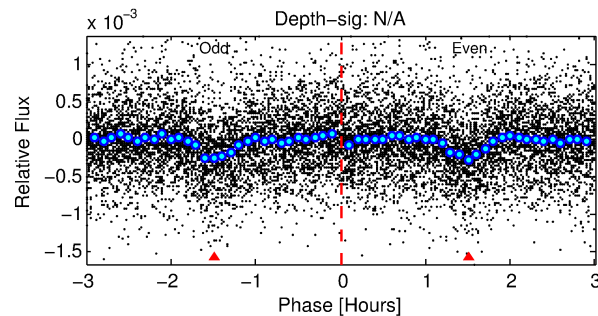
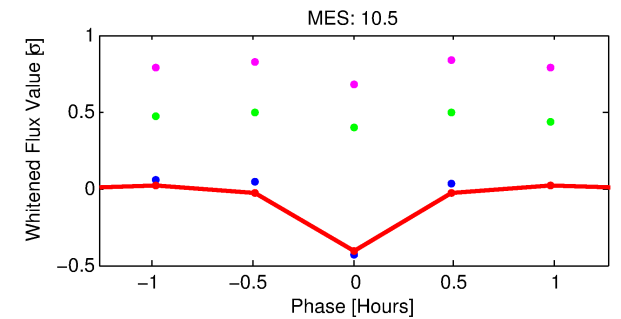
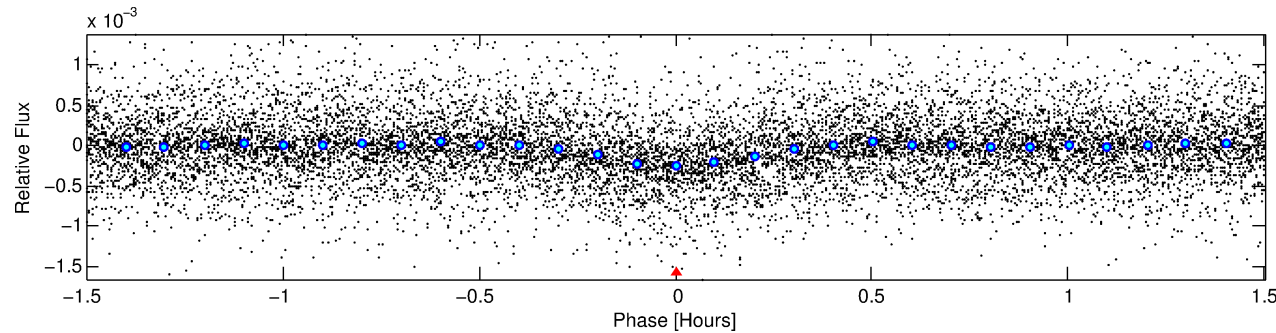
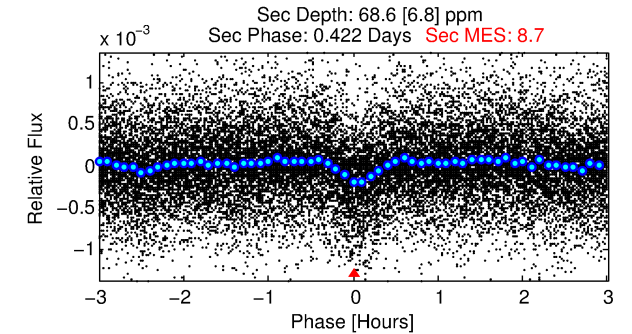
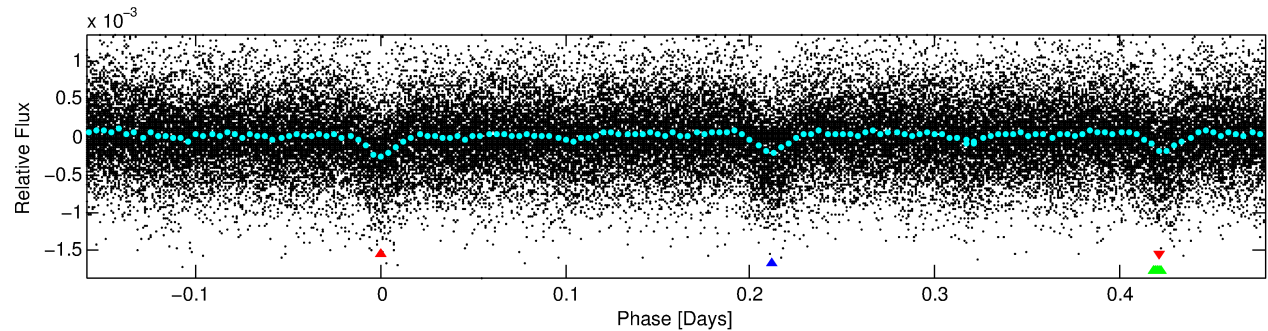
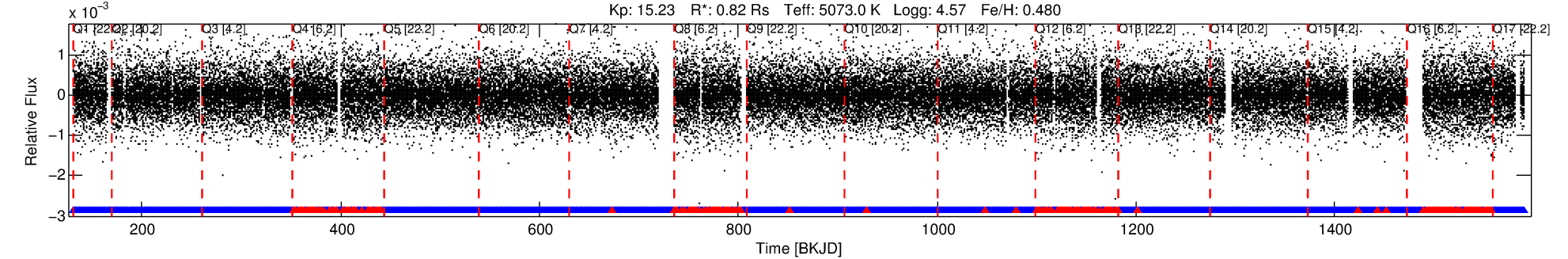
No Significant Match Found

DV One-Page Summary

KIC: 11969092 Candidate: 1 of 3 Period: 0.638 d

KOI: K04375 Corr: No Ephemeris Match

Kp: 15.23 R*: 0.82 Rs Teff: 5073.0 K Logg: 4.57 Fe/H: 0.480



TPS TCE Results:

Period = 0.63844 d

Epoch = 131.5922 BKJD

DV fit results are unavailable

DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]

LongPeriod-sig: 0.0% [0.00σ]

ModelChiSquare2-sig: N/A

ModelChiSquareGof-sig: N/A

Bootstrap-pfa: 3.17e-23

RollingBand-fgt: 0.88 [1756/1999]

GhostDiagnostic-chr: 5.347

Centroid-sig: N/A

Centroid-so: 0.424 arcsec [0.78σ]

OotOffset-rm: 1.012 arcsec [4.24σ]

KicOffset-rm: 1.049 arcsec [4.37σ]

OotOffset-st: 4/4/3/5 [16]

KicOffset-st: 4/4/3/5 [16]

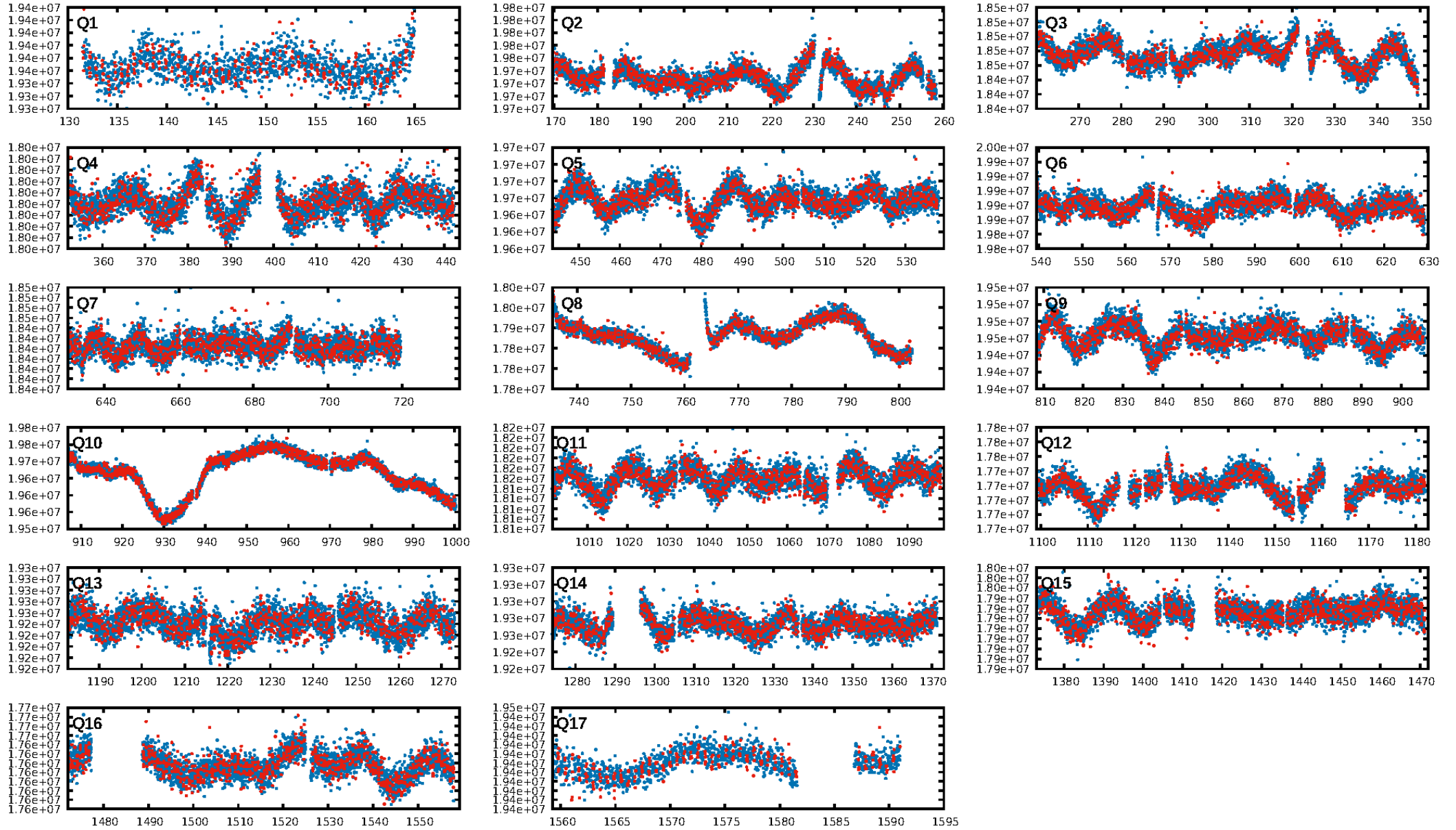
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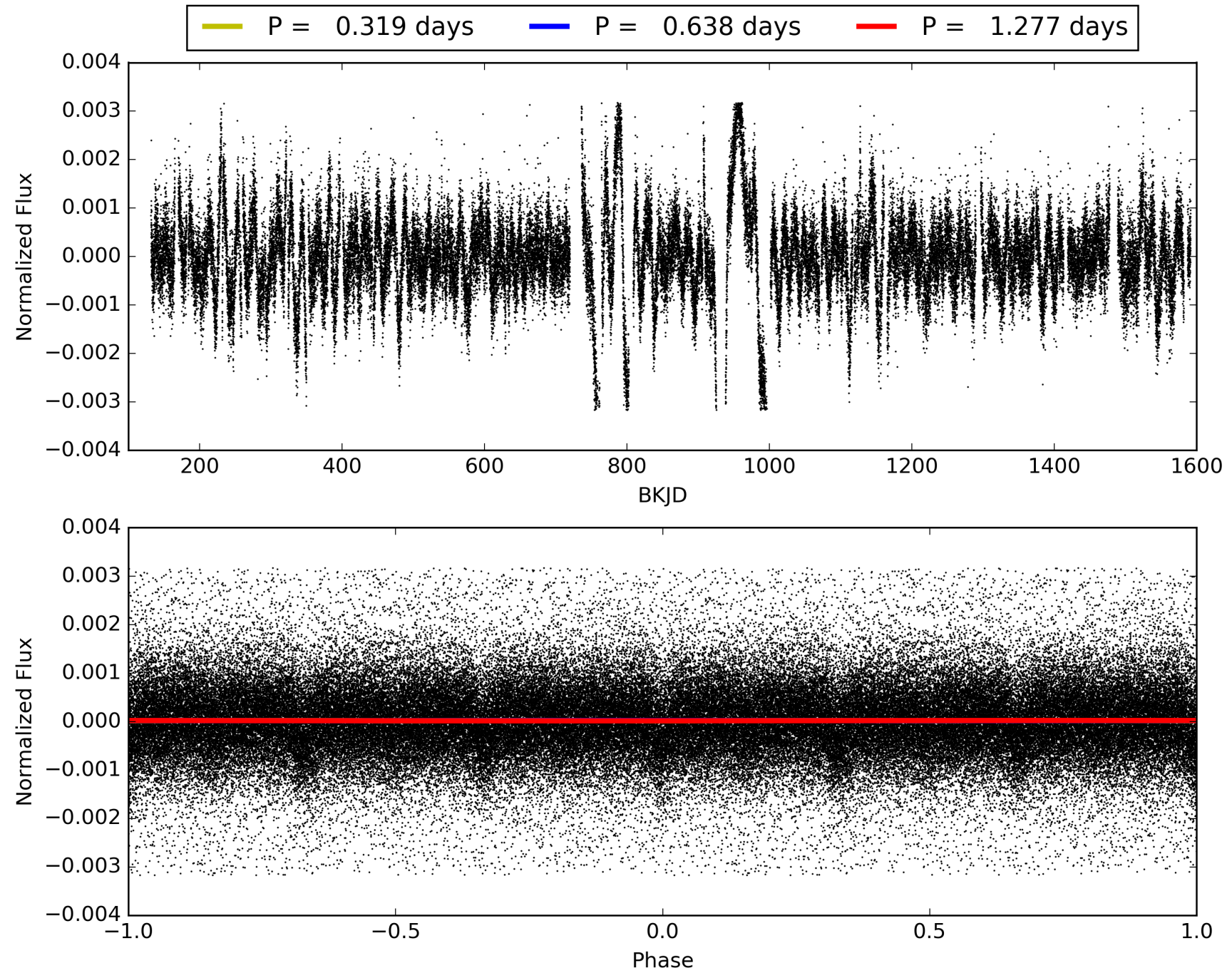
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 15:00:41 Z

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

TCE 011969092-01, PDC Light Curves

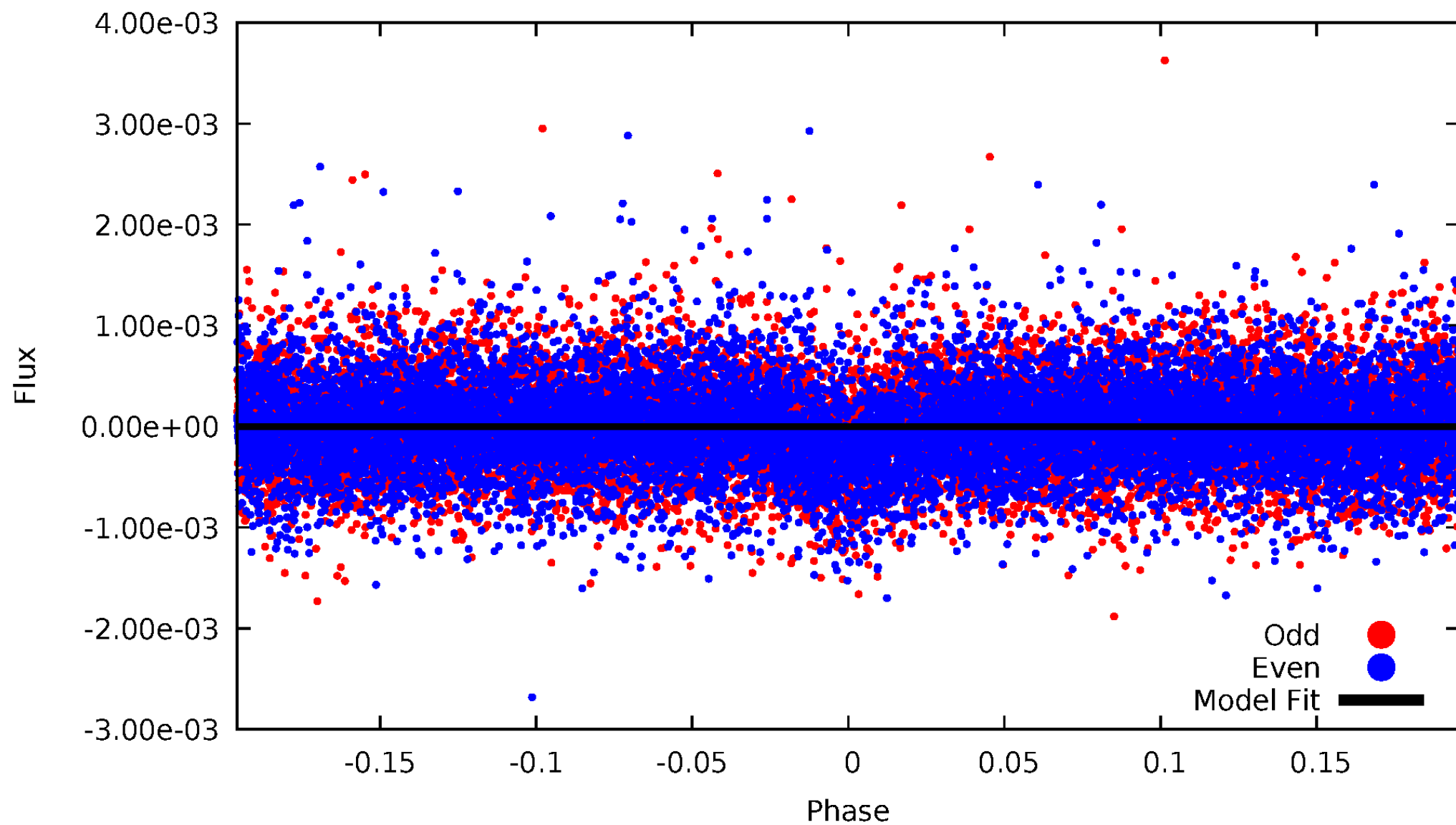


TCE 011969092-01



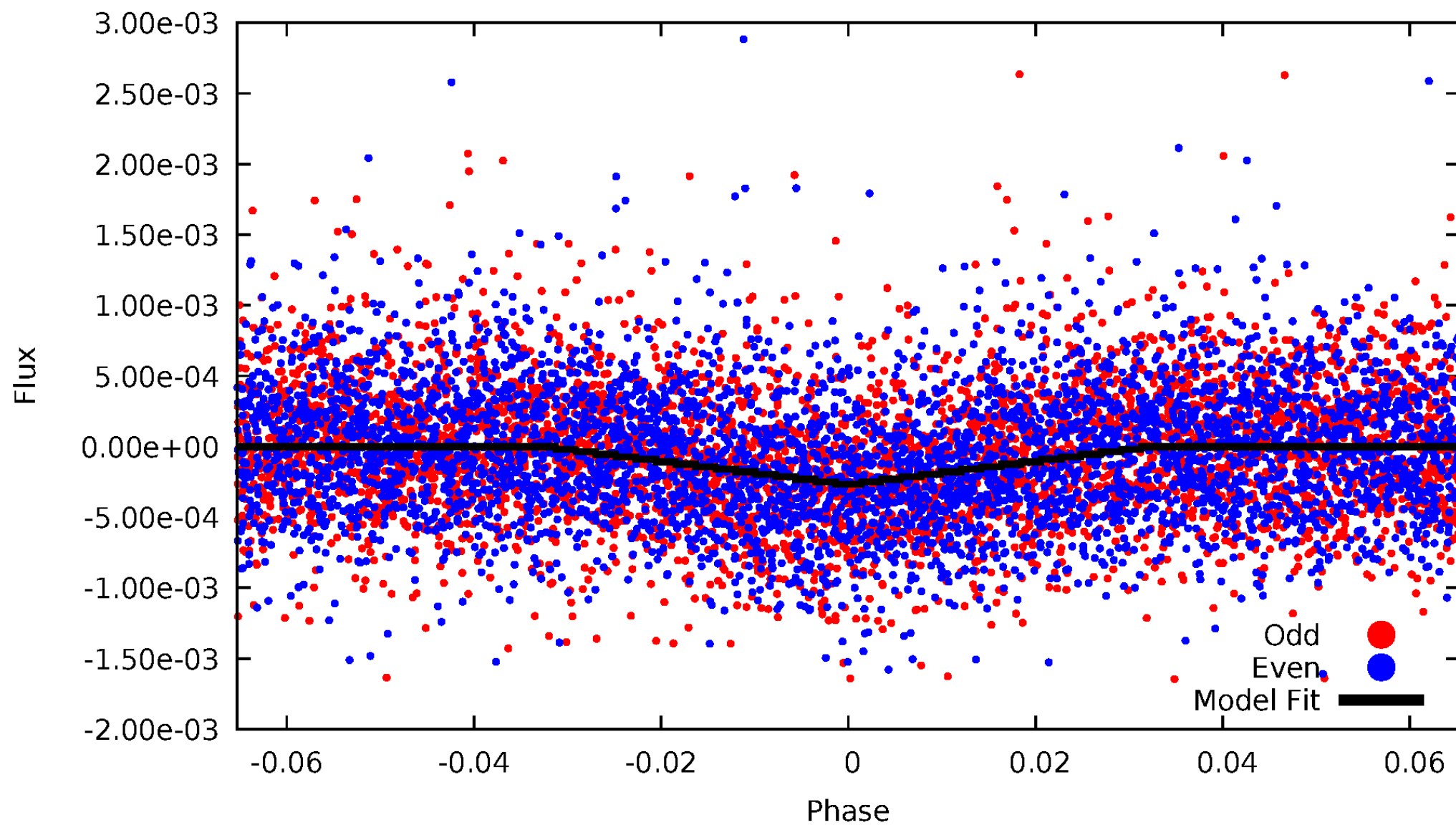
DV Odd/Even

TCE 011969092-01

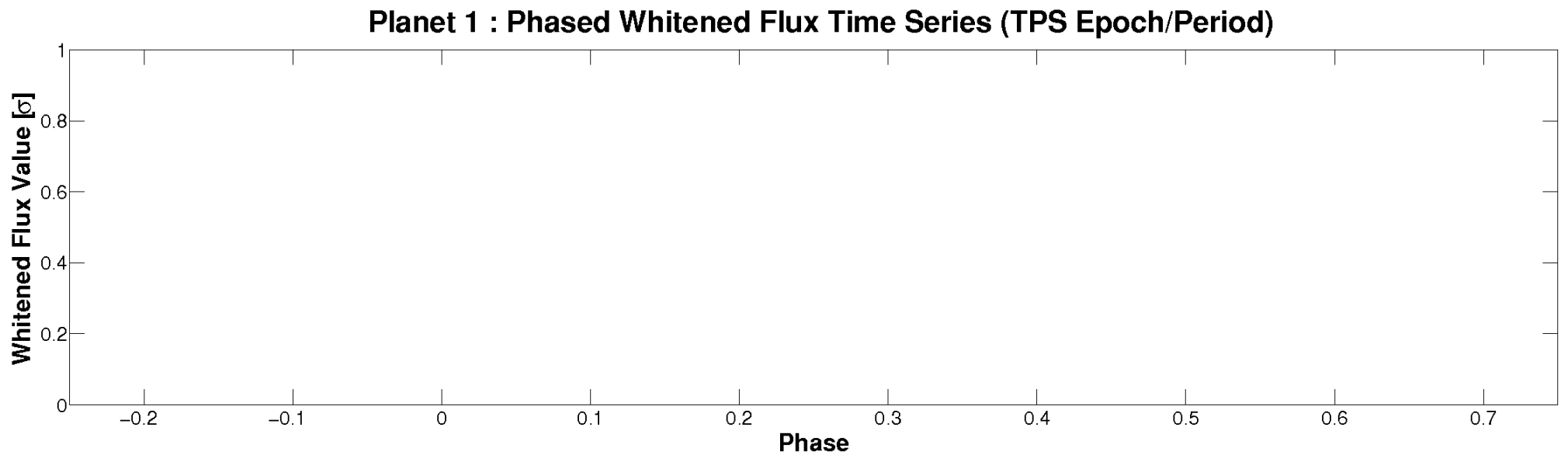
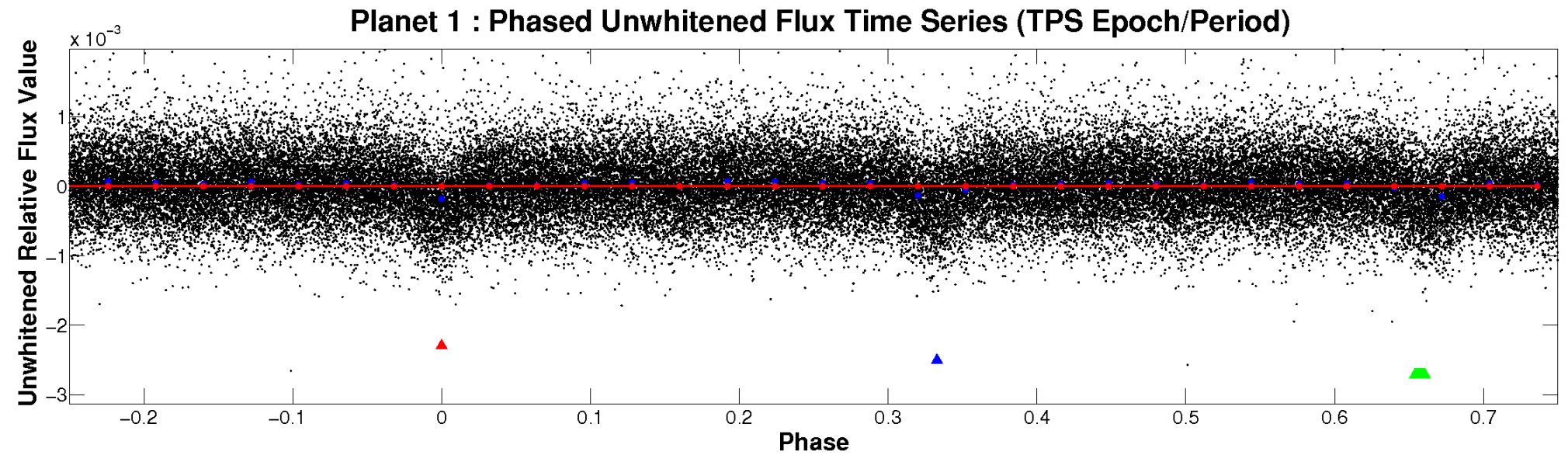


ALT Odd/Even

TCE 011969092-01

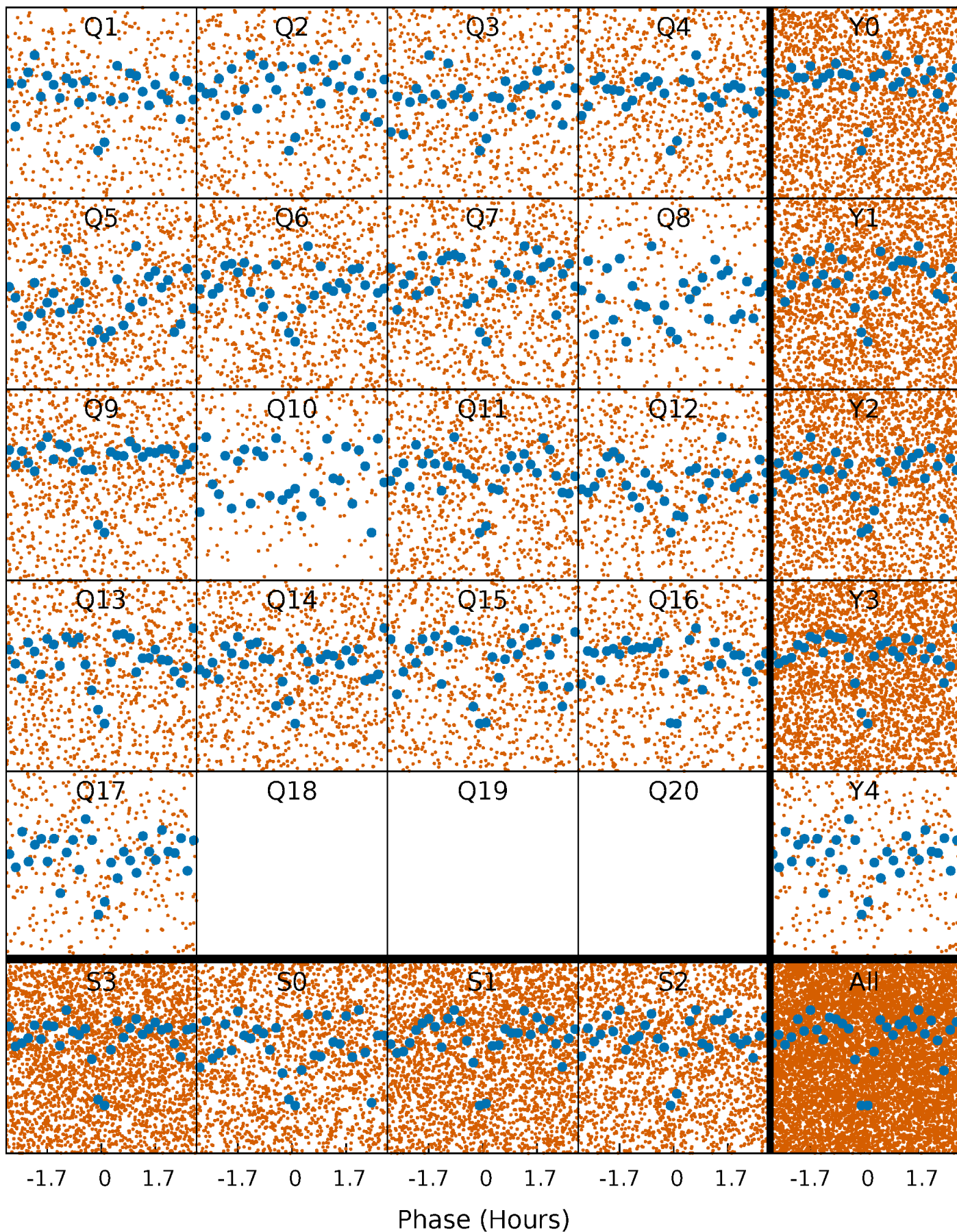


Non-Whitened Vs. Whitened Light Curve



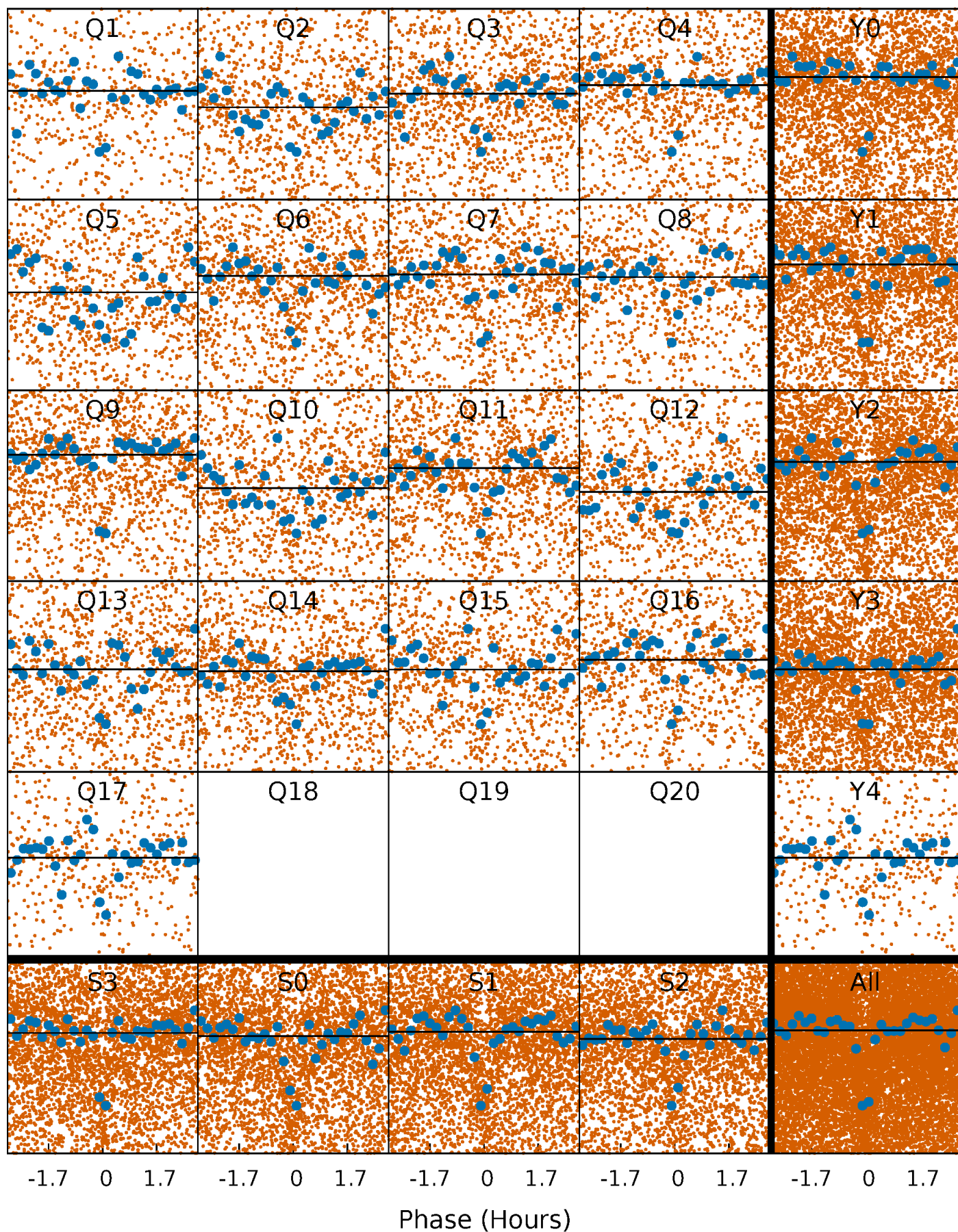
PDC Quarter-Phased Transit Curves

TCE 011969092-01 P= 0.638439 Days $T_0=131.592244$ (BKJD)



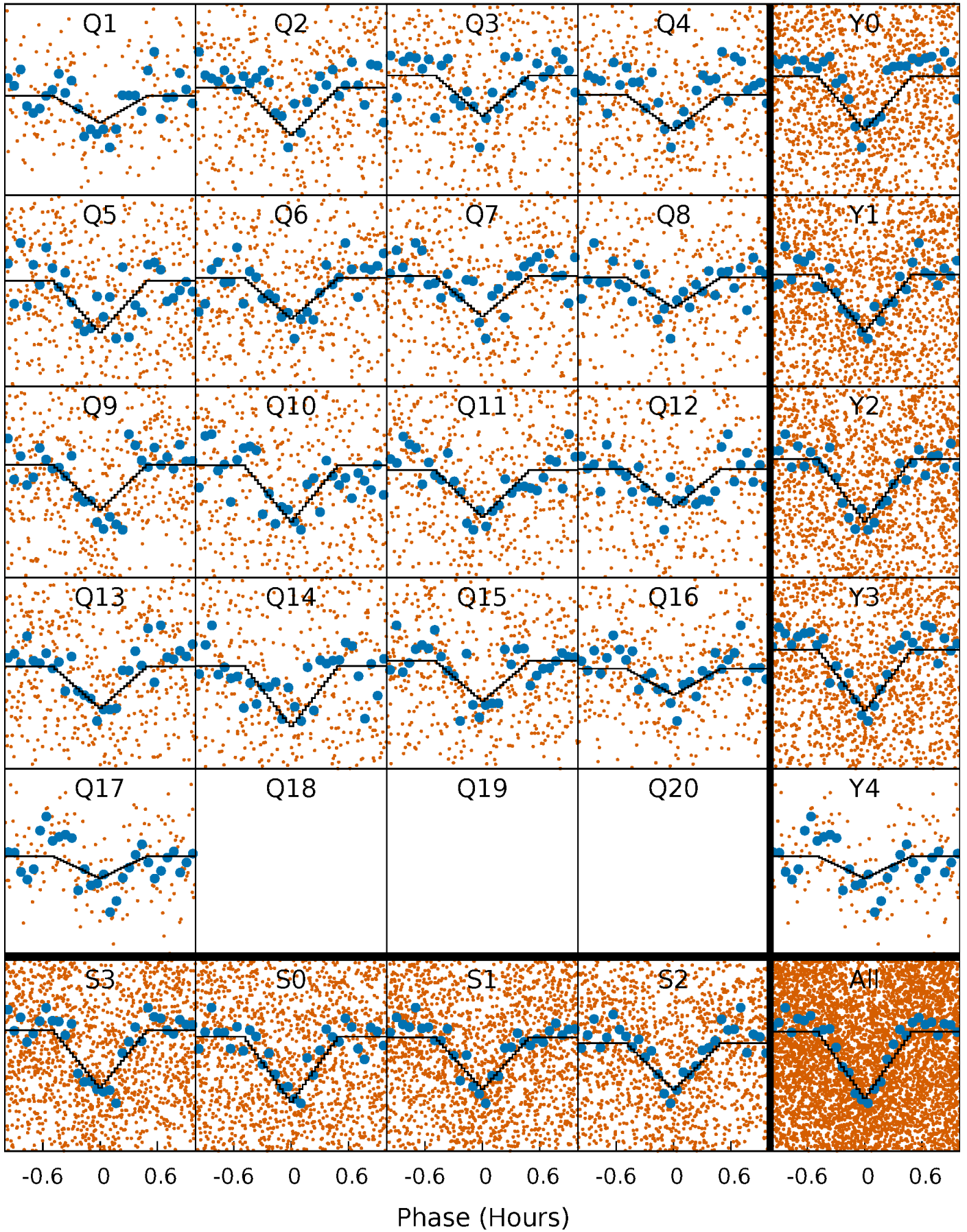
DV Quarter-Phased Transit Curves

TCE 011969092-01 P= 0.638439 Days $T_0=131.592244$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

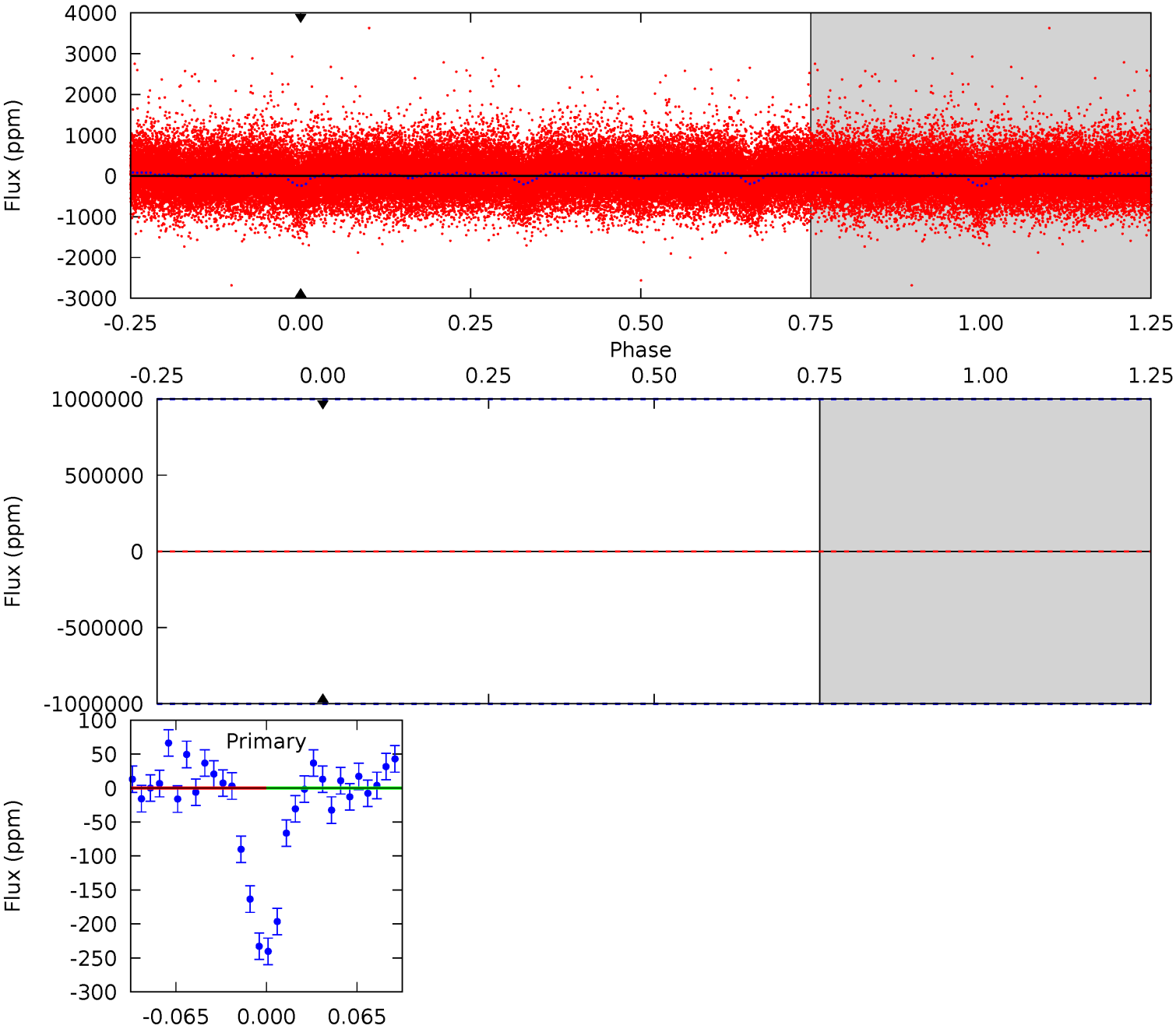
TCE 011969092-01 P= 0.638439 Days $T_0=131.591434$ (BKJD)



DV Model-Shift Uniqueness Test

011969092-01, P = 0.638439 Days, E = 130.953805 Days

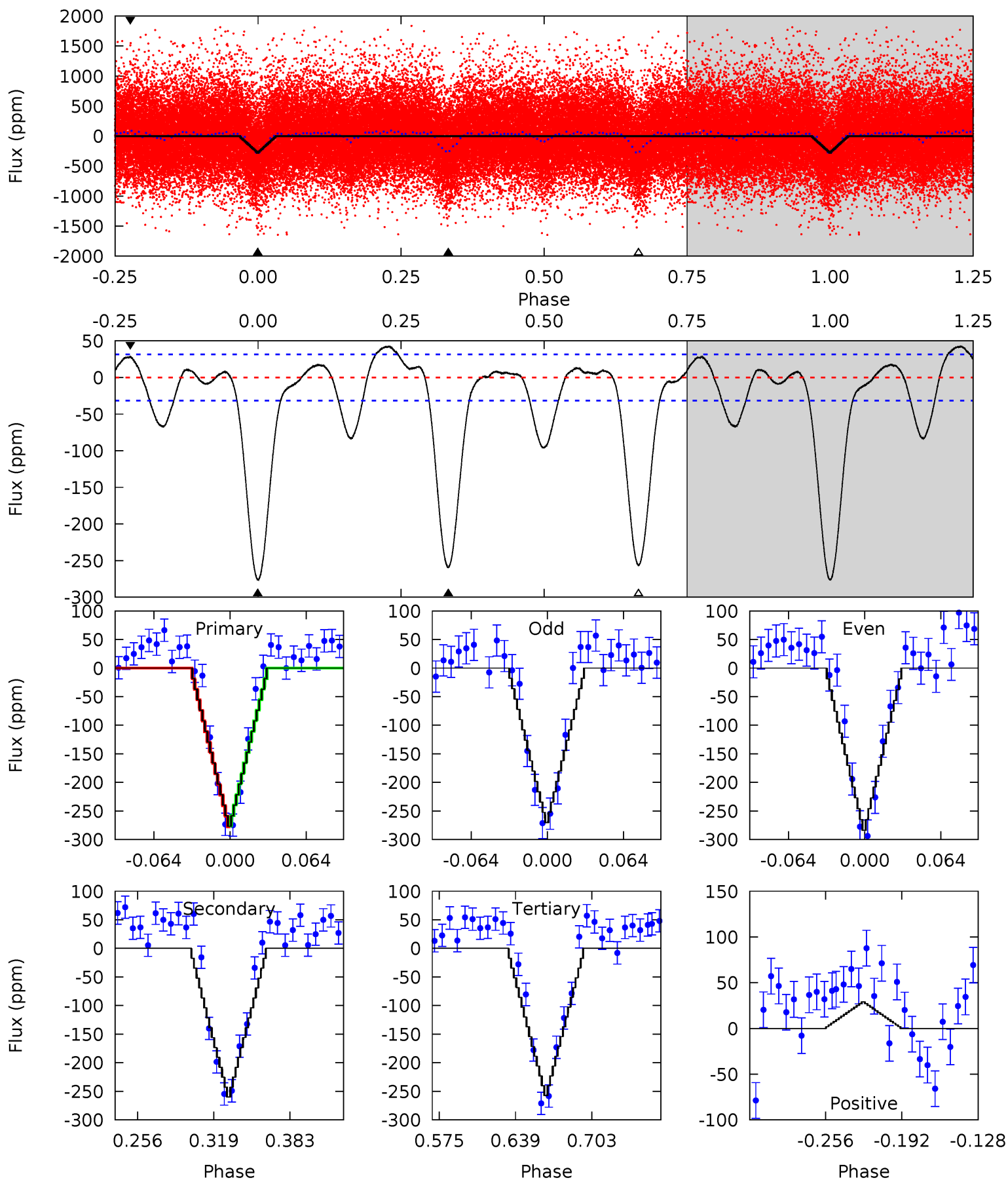
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011969092-01, P = 0.638439 Days, E = 130.952995 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
40.8	38.3	37.9	4.27	4.66	1.85	8.52	2.87	36.5	0.41	34.1	0.99	0.89	0.13	0.09



Stellar Parameters For KIC 011969092

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5073^{+149}_{-164}	$4.571^{+0.020}_{-0.080}$	$0.480^{+0.050}_{-0.300}$	$0.824^{+0.080}_{-0.046}$	$0.922^{+0.031}_{-0.086}$	$2.324^{+0.288}_{-0.553}$
	+3%/-3%	+0%/-2%	+10%/-62%	+10%/-6%	+3%/-9%	+12%/-24%
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 011969092-01 / KOI 4375.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$7.27^{+6.87}_{-4.98}$	2415^{+89}_{-93}	-3121^{+17943}_{-10828}	$-0.554^{+375.486}_{-333.387}$
Alt.	-260 ± 7	$6.84^{+7.34}_{-4.99}$	2412^{+89}_{-81}	2708^{+1776}_{-5221}	$0.598^{+7.553}_{-0.457}$

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 $A_{obs} \gg 1.0$

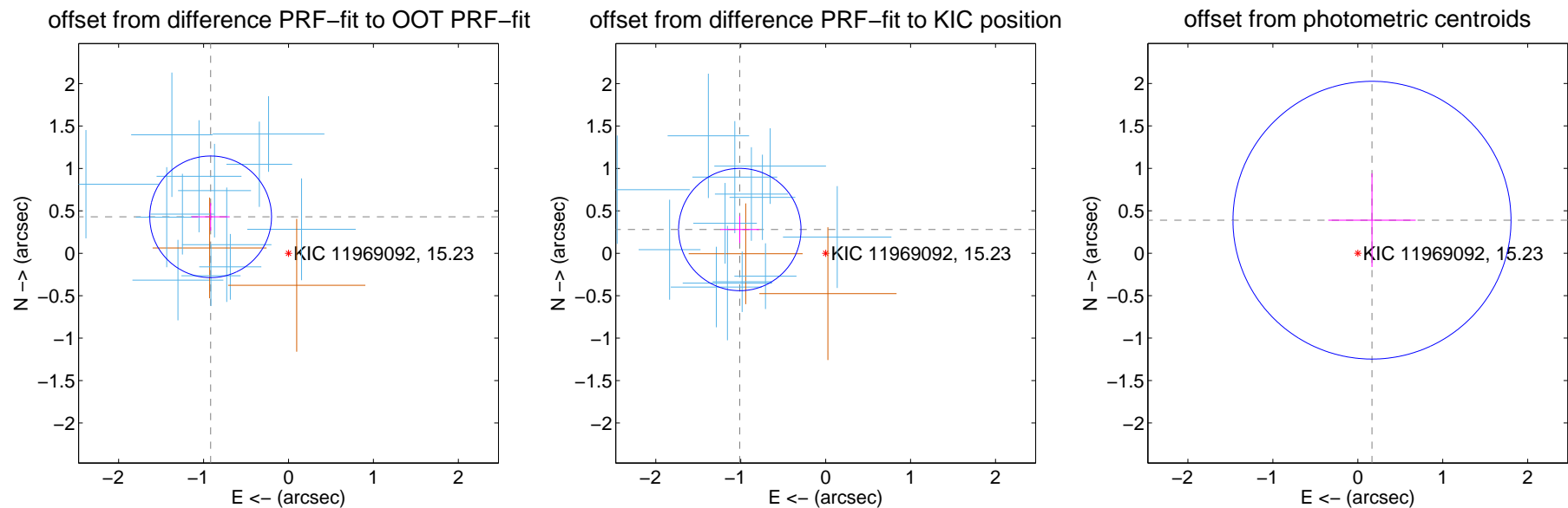
DV Centroid Data

Supplemental centroid analysis for 011969092-01. Kepler magnitude: 15.23. Transit SNR -1.00

There are 14 quarters with good PRF difference image offsets

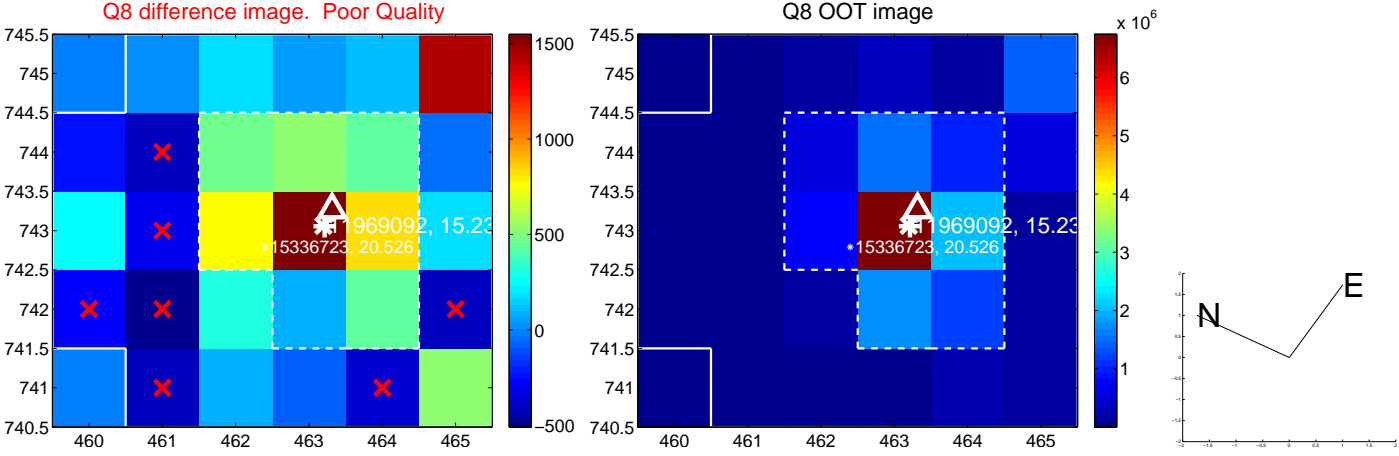
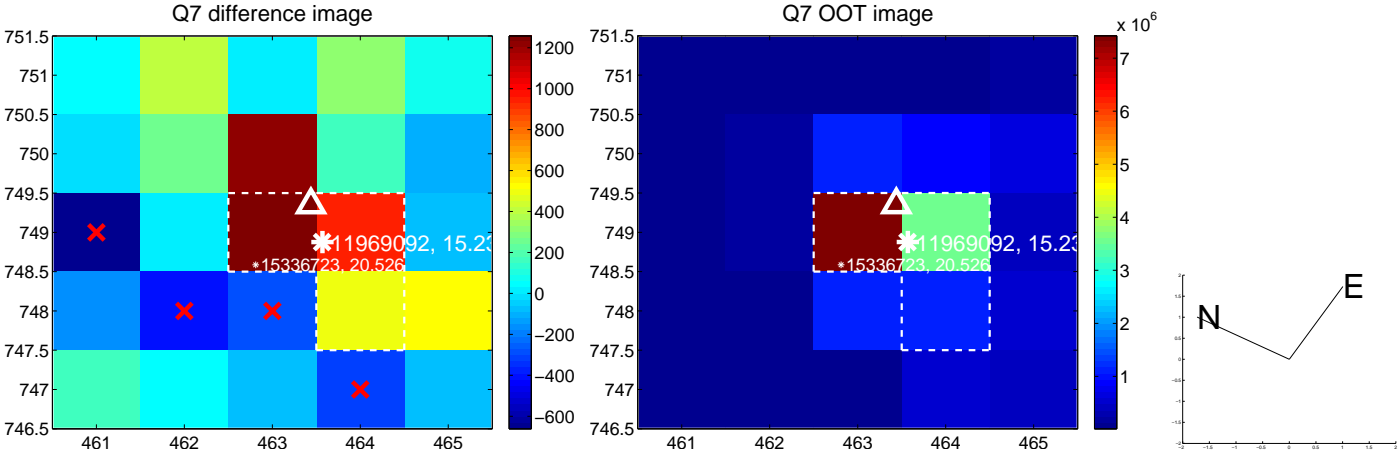
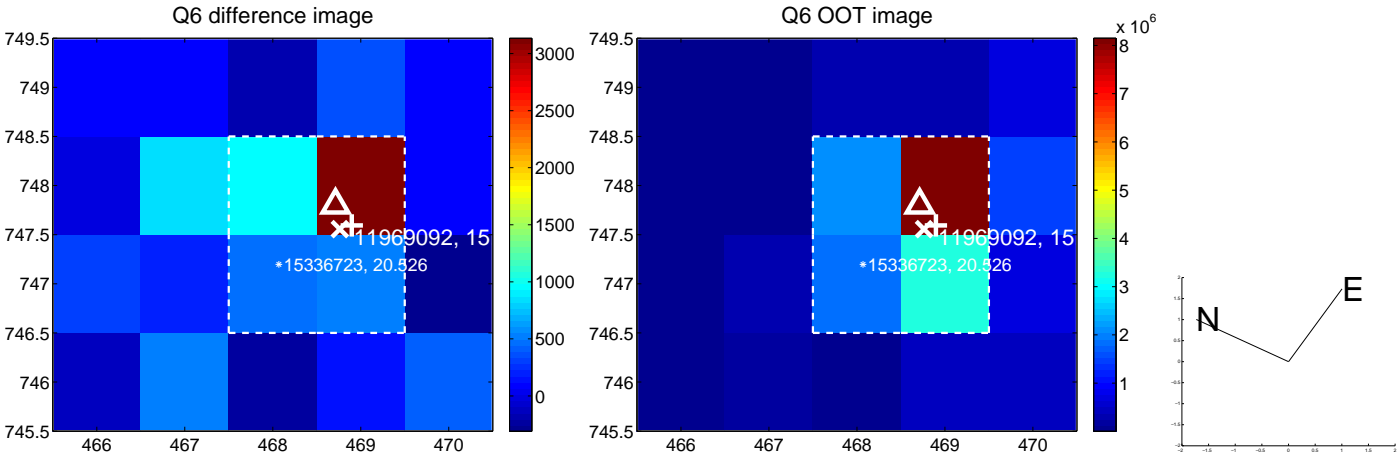
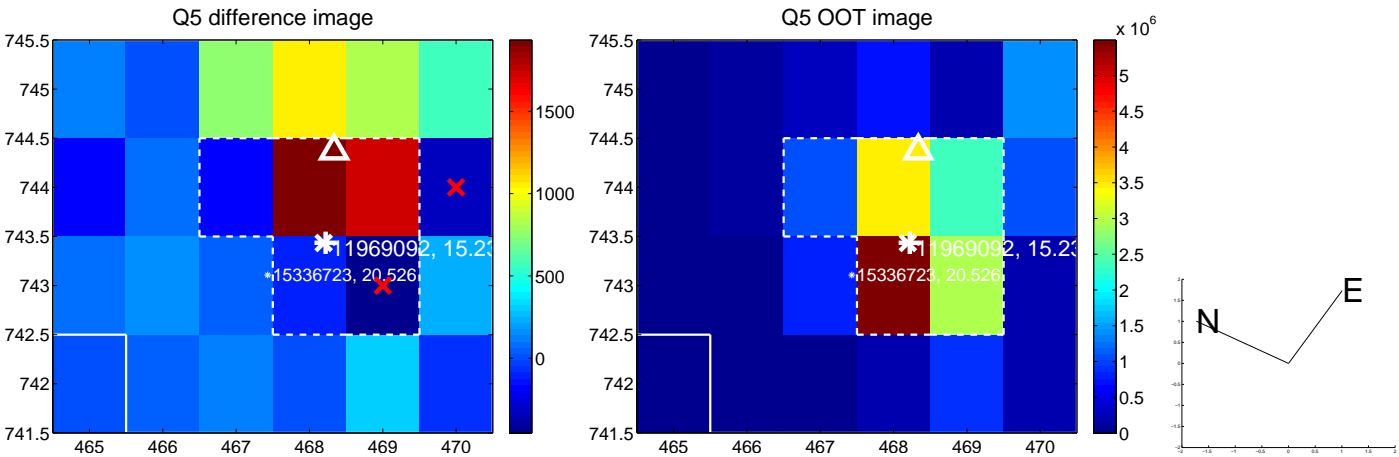
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.012 ± 0.239	4.24	0.917 ± 0.224	0.430 ± 0.162
PRF-fit source offset from KIC position	1.049 ± 0.240	4.37	1.011 ± 0.228	0.280 ± 0.159
photometric centroid source offset	0.42 ± 0.55	0.78	-0.17 ± 0.51	0.39 ± 0.55

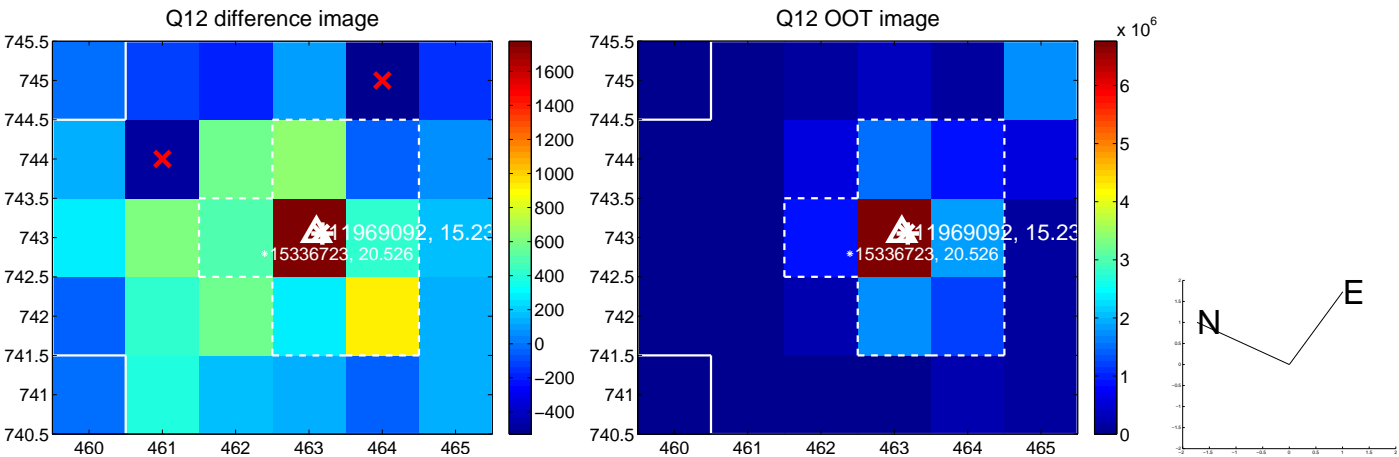
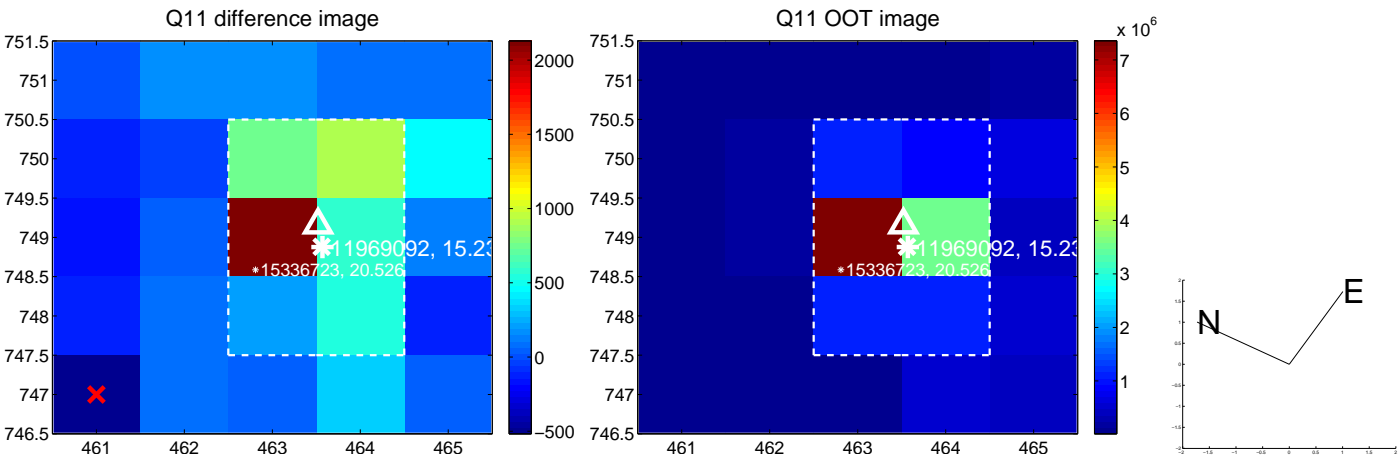
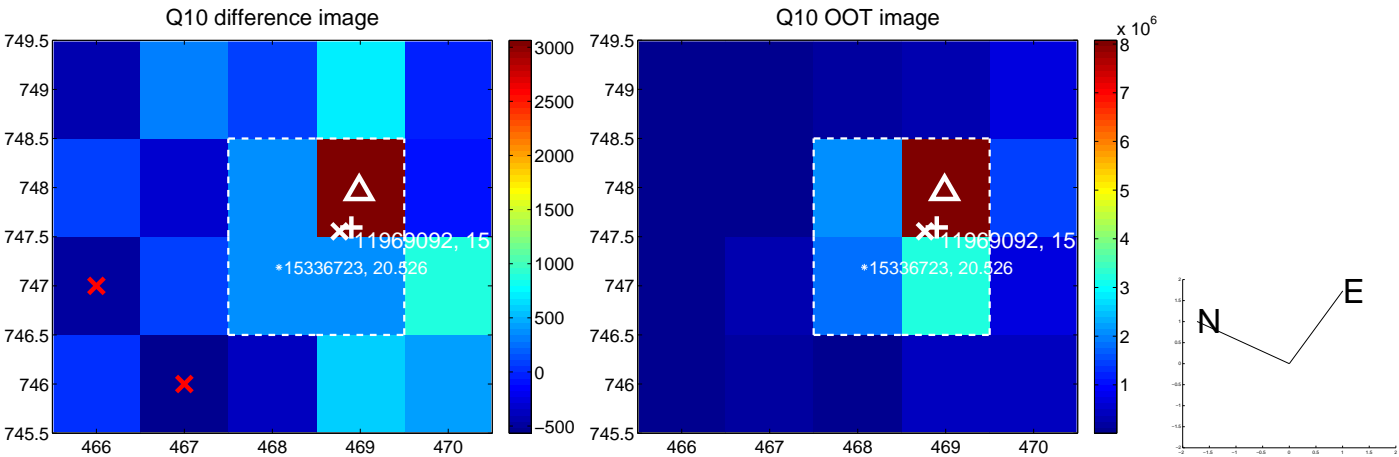
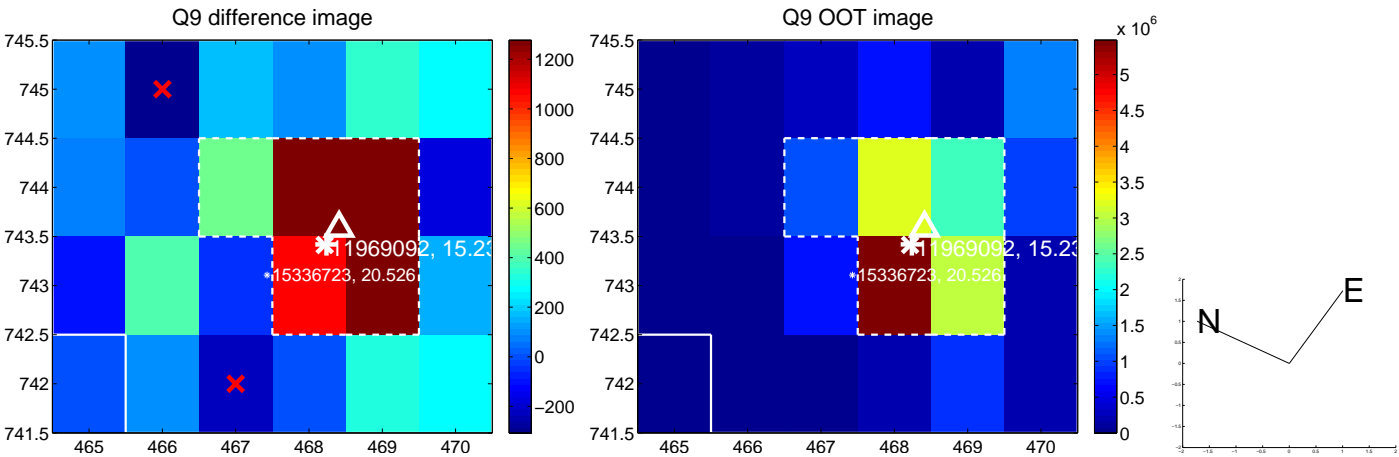


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

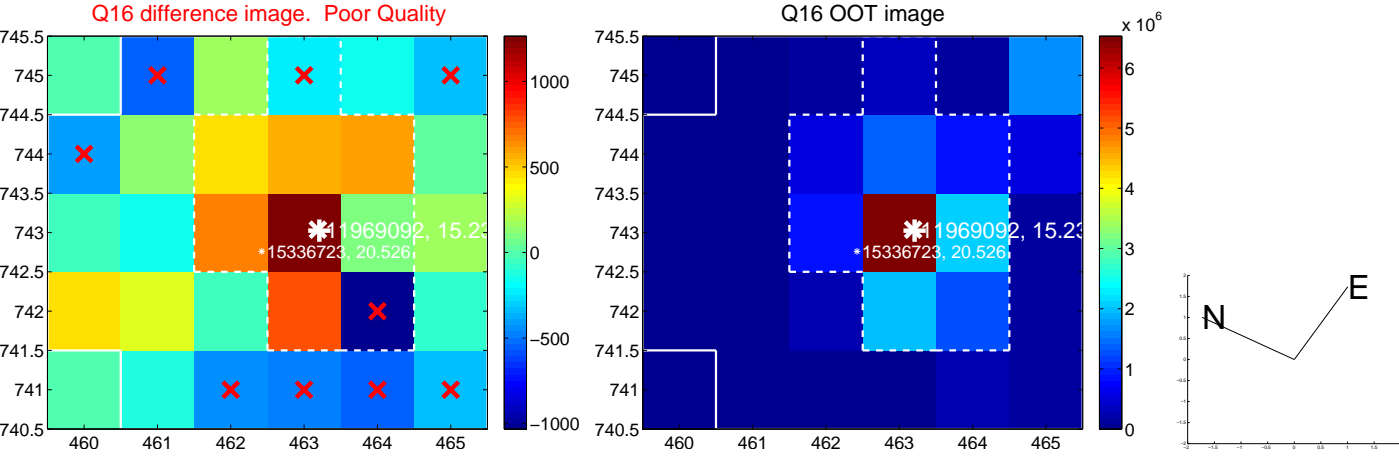
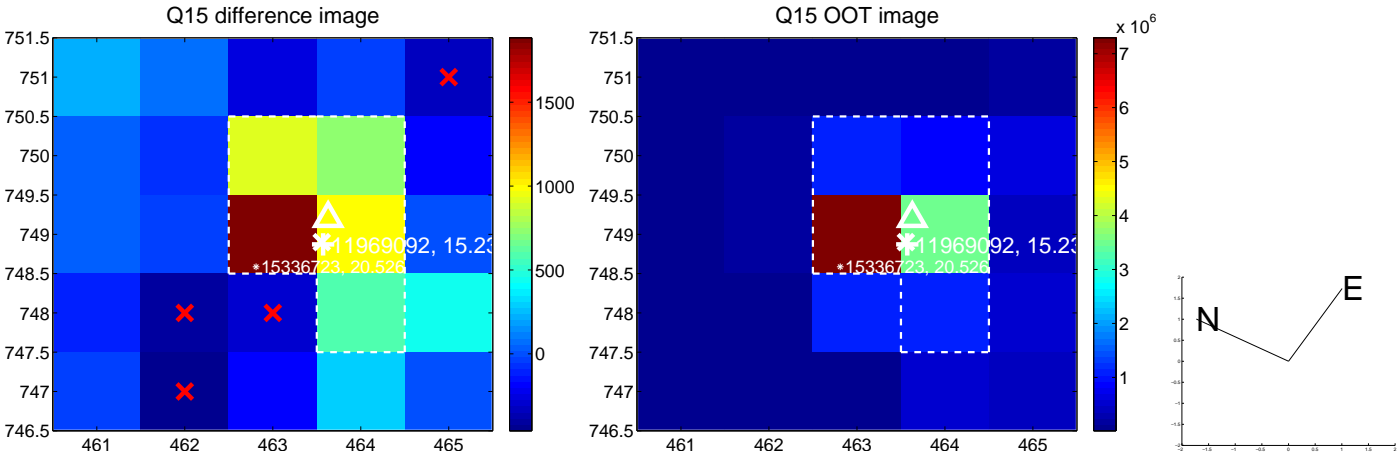
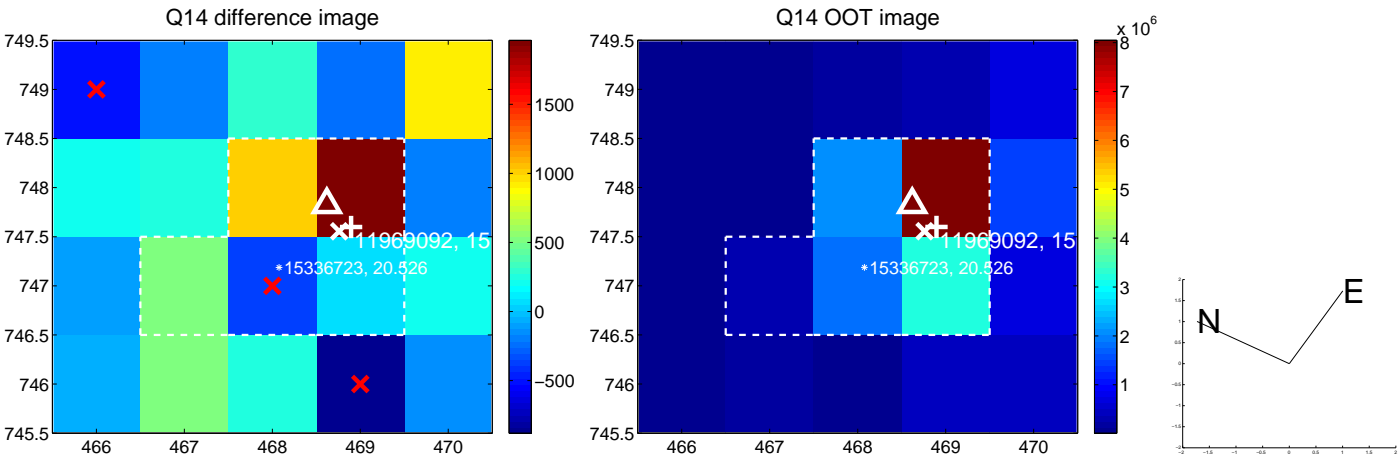
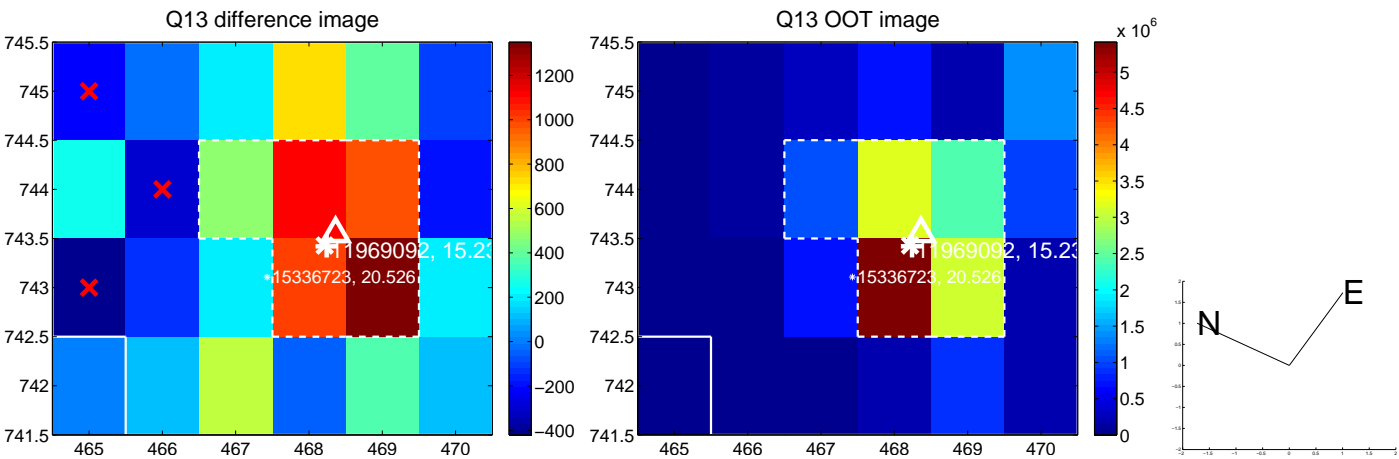
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



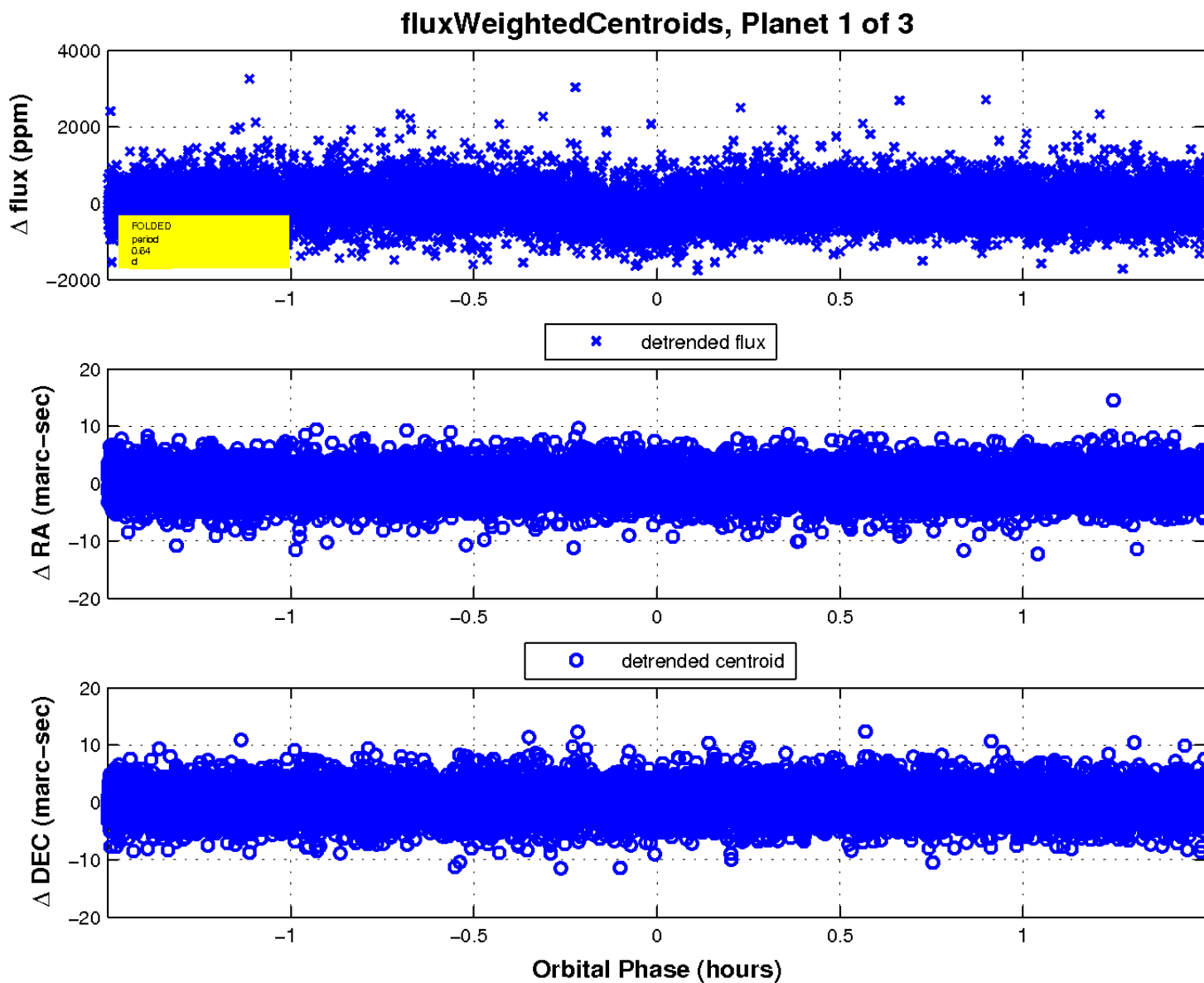
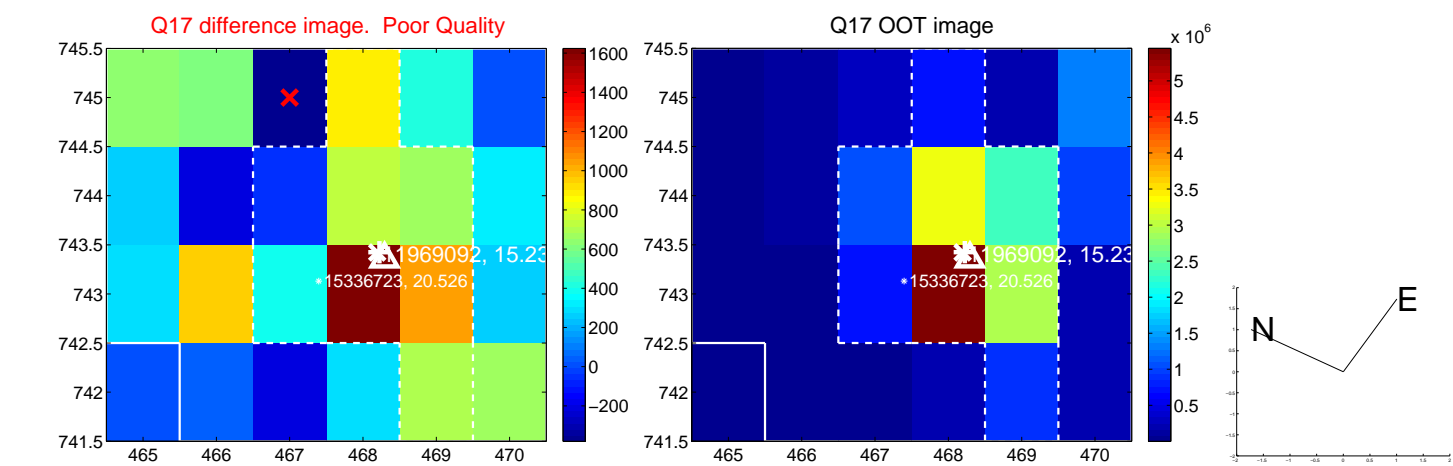
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

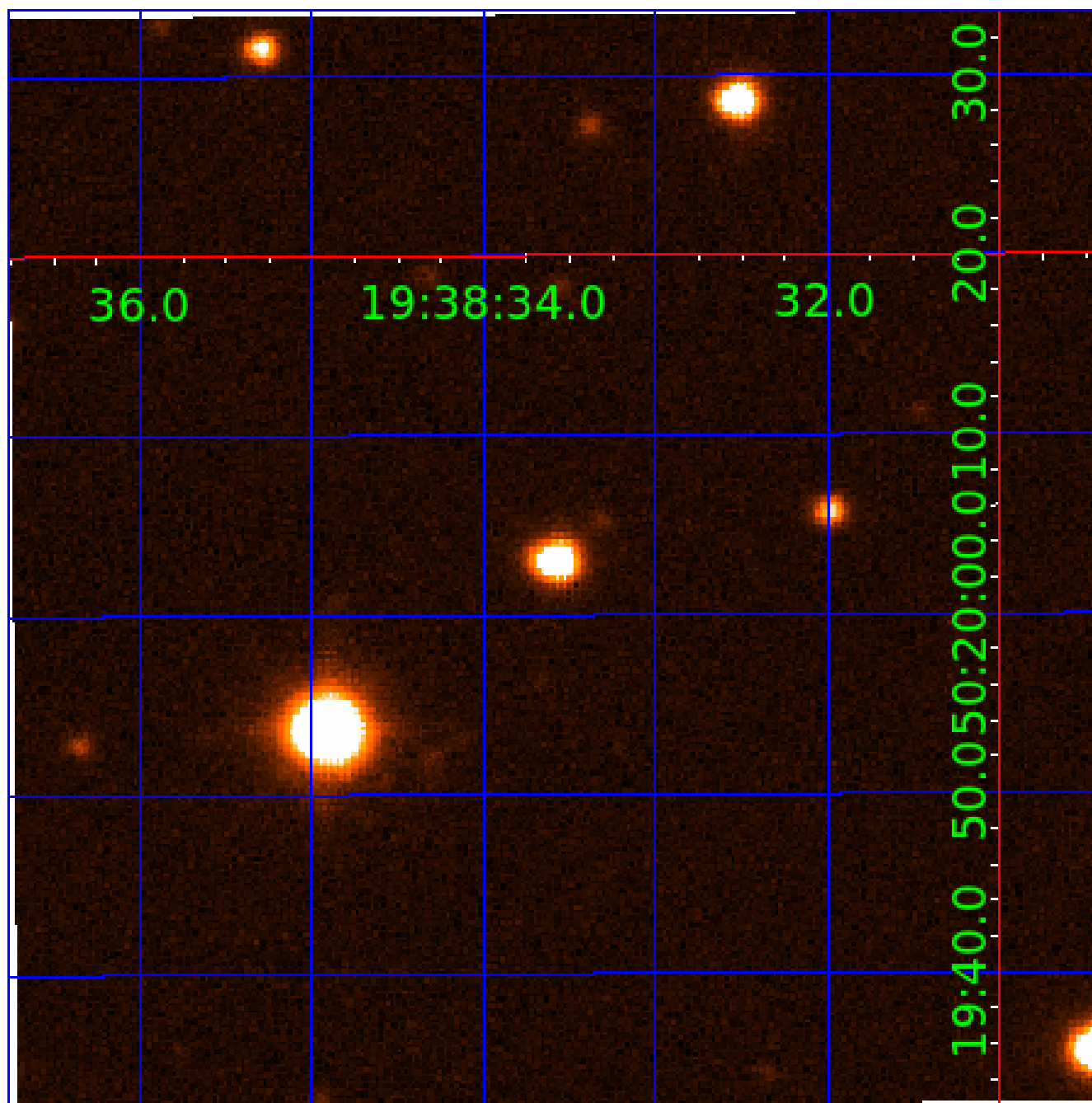


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011969092

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})
011969092-01	OBS	4375.01	0.638439	131.592244	997.8	1.500	10.5	-1.0	0.82	5073	2.53	2018.74
011969092-02	OBS	No	0.638439	131.804744	1063.1	1.500	9.6	-1.0	0.82	5073	2.61	2018.74
011969092-03	OBS	No	0.638437	132.013995	157.6	0.640	8.5	16.1	0.82	5073	1.14	2018.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011969092-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS
011969092-02	OBS	FP	0.00	1	0	0	0	LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS
011969092-03	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_UNRESOLVED_OFFSET

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.

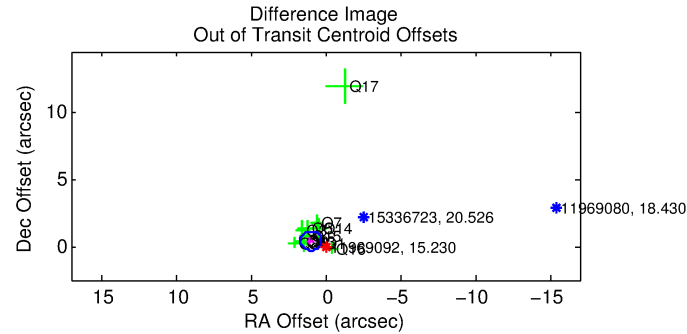
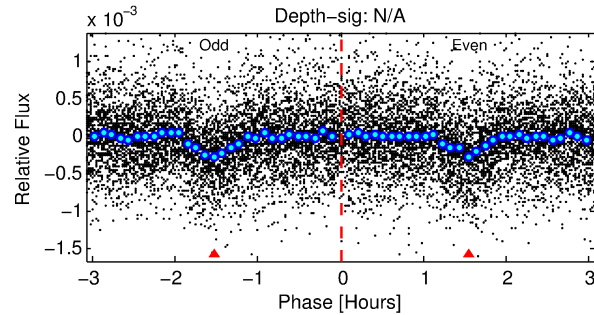
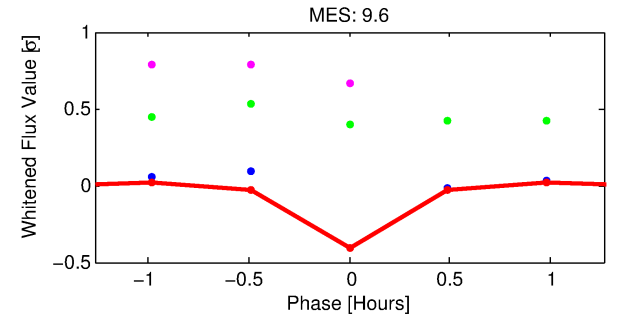
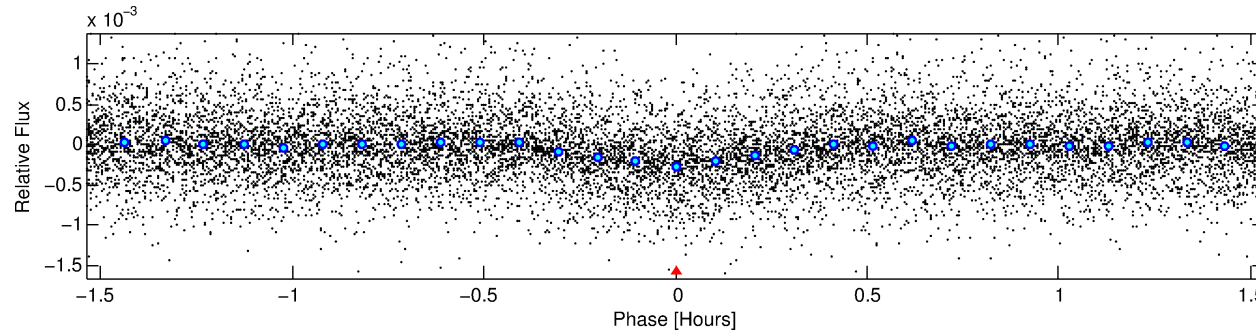
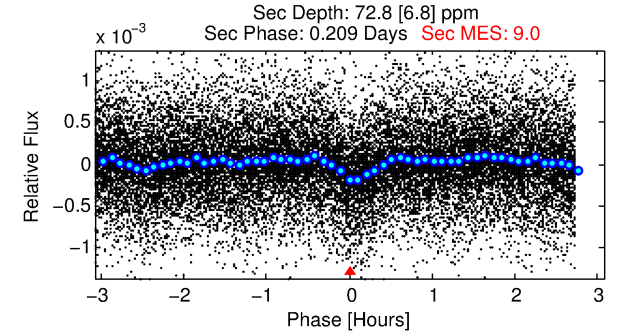
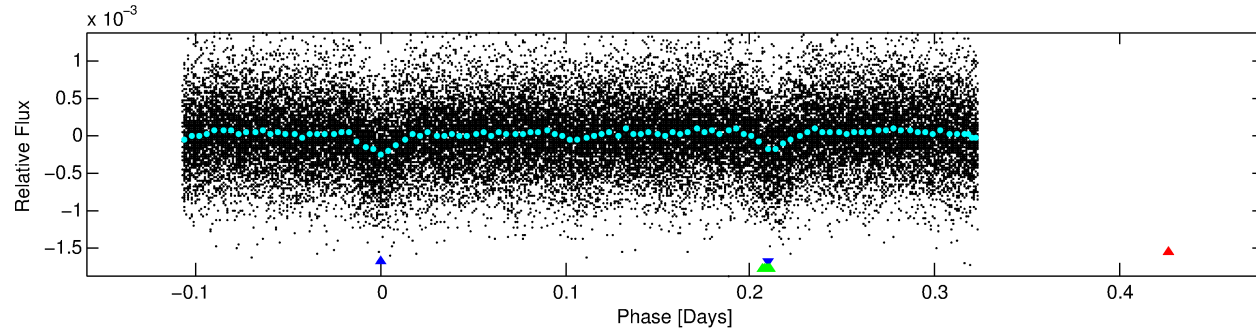
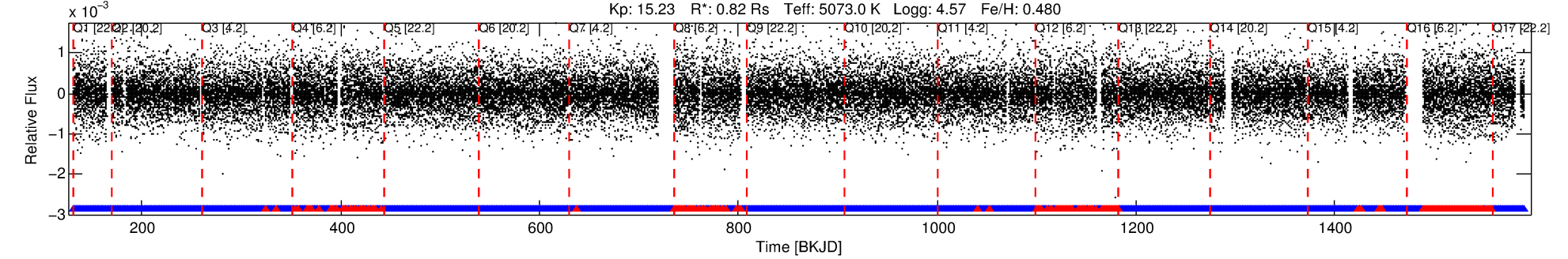
Ephemeris Match Information For 011969092-02

No Significant Match Found

DV One-Page Summary

KIC: 11969092 Candidate: 2 of 3 Period: 0.638 d
KOI: K04375 Corr: No Ephemeris Match

Kp: 15.23 R*: 0.82 Rs Teff: 5073.0 K Logg: 4.57 Fe/H: 0.480



TPS TCE Results:

Period = 0.63844 d
Epoch = 131.8047 BKJD

DV fit results are unavailable

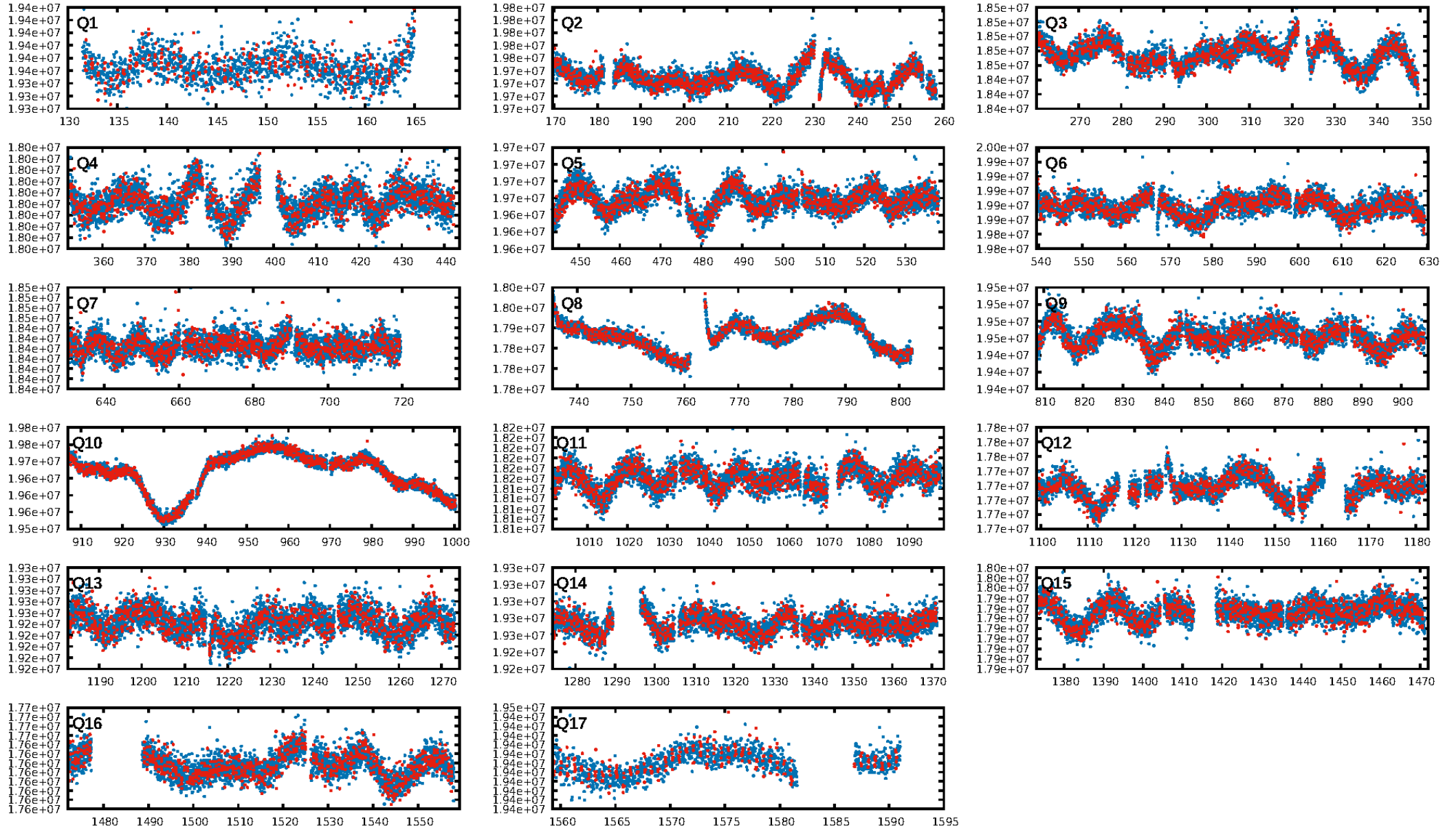
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.24e-20
RollingBand-fgt: 0.89 [1780/1998]
GhostDiagnostic-chr: 2.462
Centroid-sig: N/A
Centroid-so: 1.957 arcsec [3.59σ]
OotOffset-rm: 1.082 arcsec [4.63σ]
KicOffset-rm: 1.153 arcsec [4.79σ]
OotOffset-st: 2/3/3/5 [13]
KicOffset-st: 2/3/3/5 [13]
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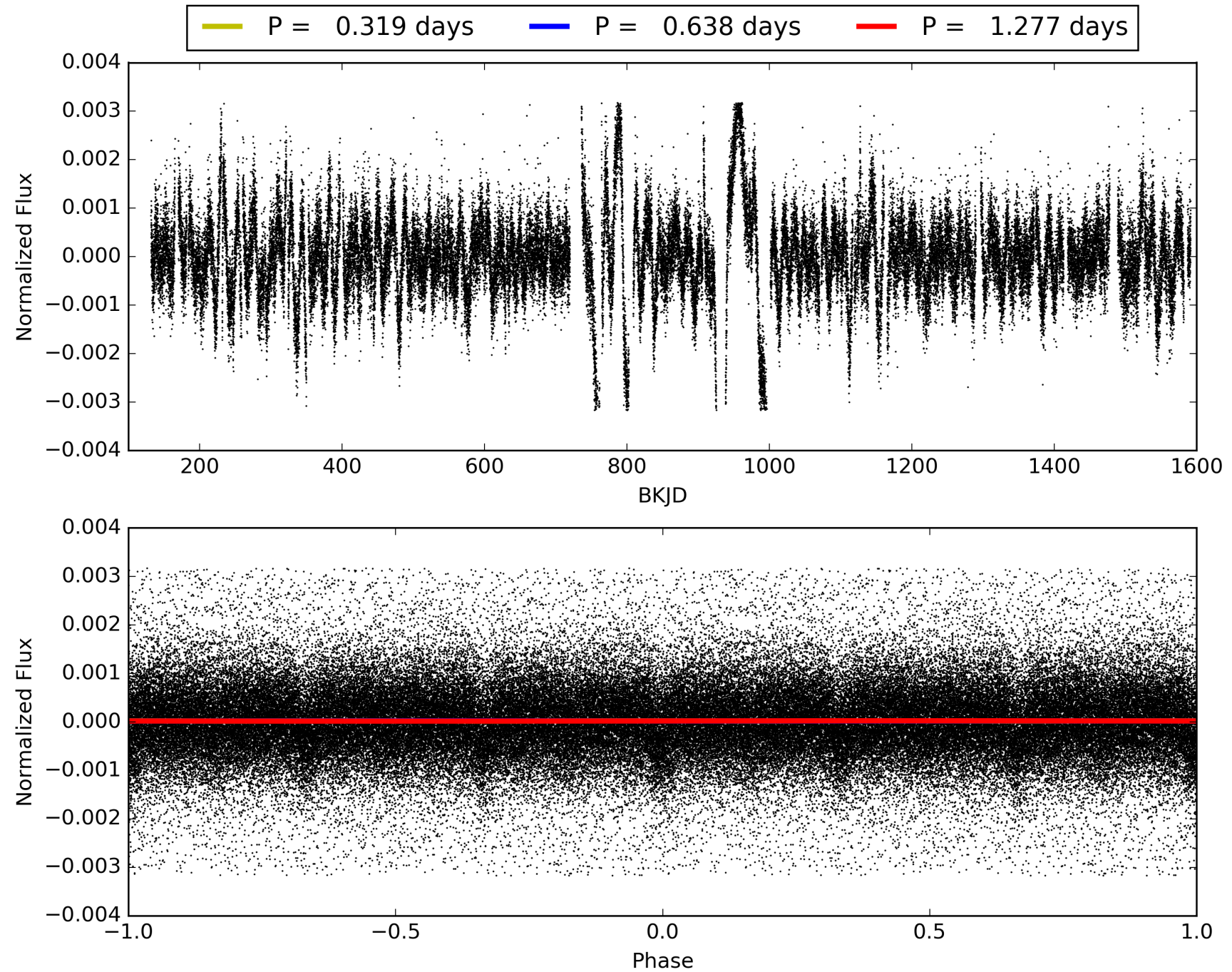
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 011969092-02, PDC Light Curves

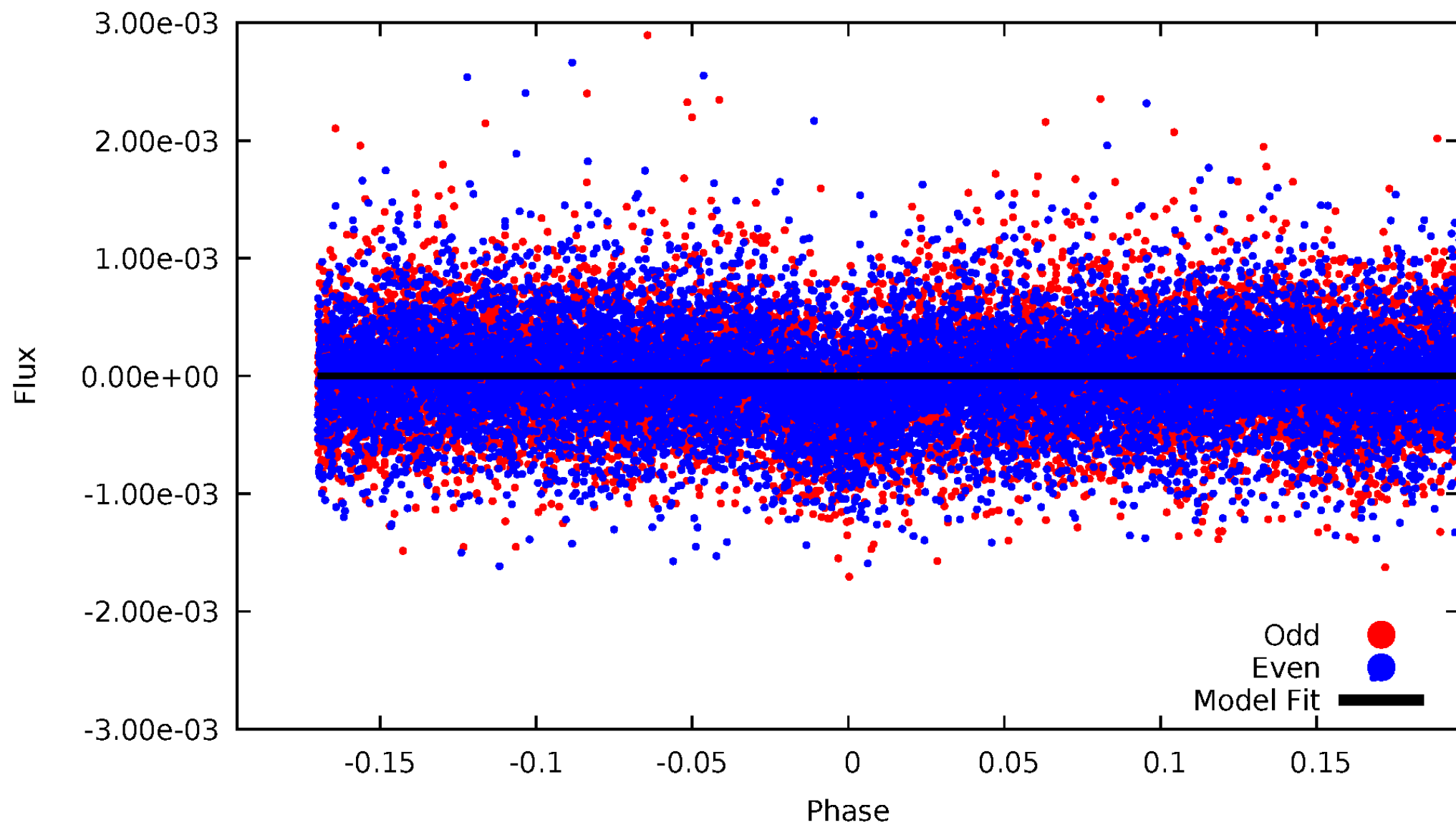


TCE 011969092-02



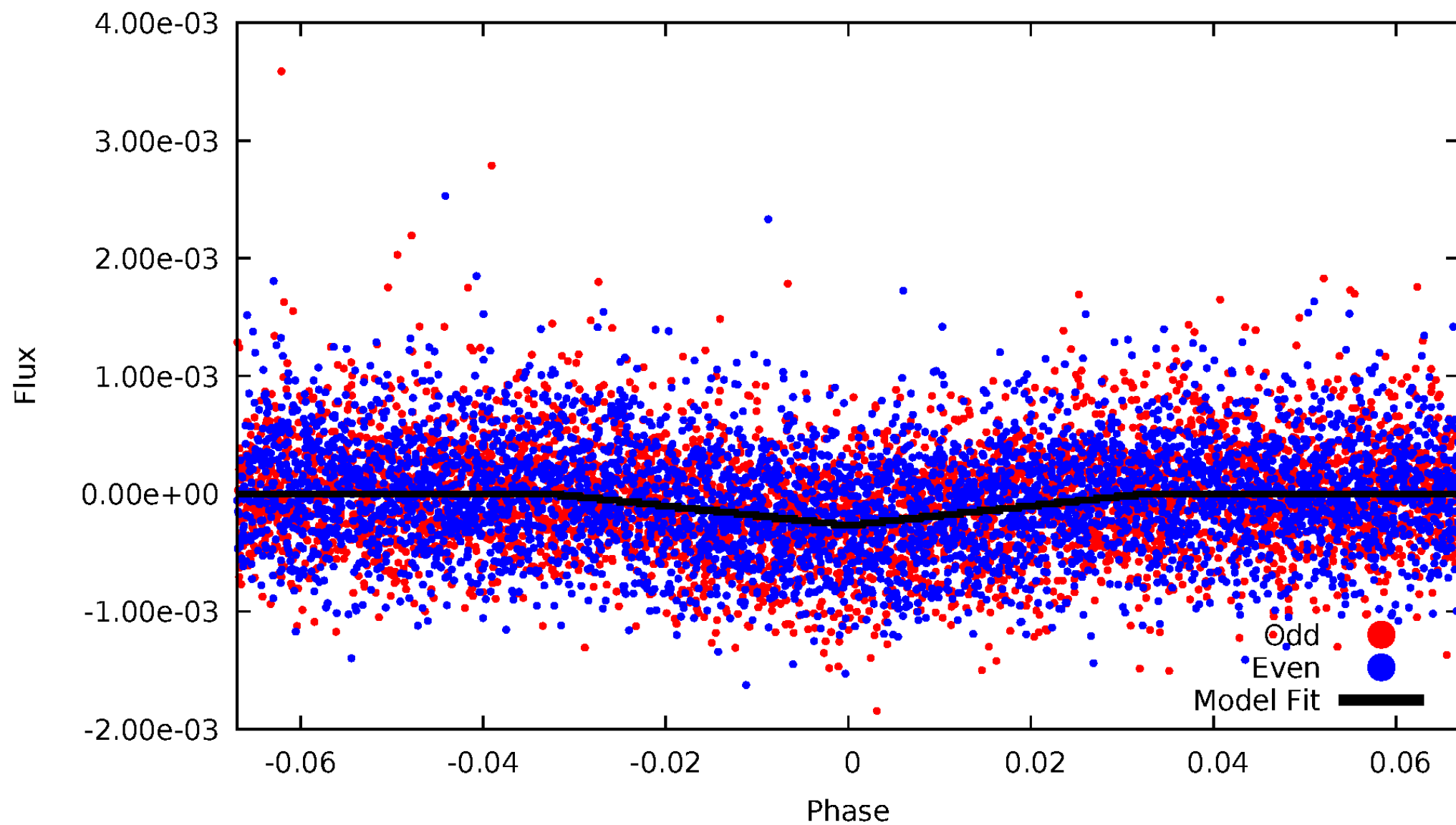
DV Odd/Even

TCE 011969092-02



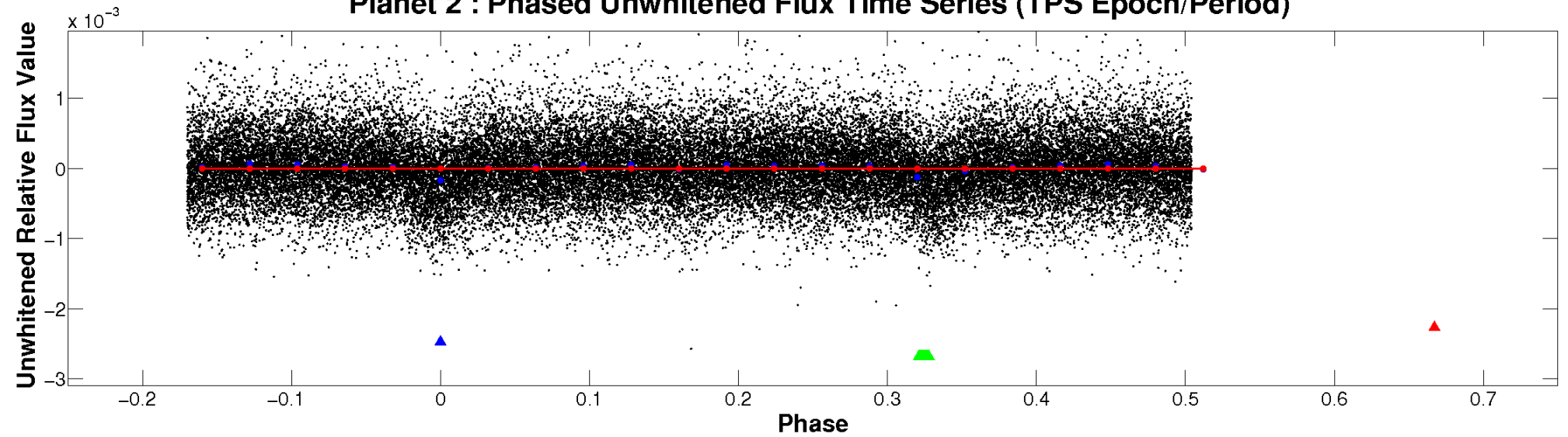
ALT Odd/Even

TCE 011969092-02

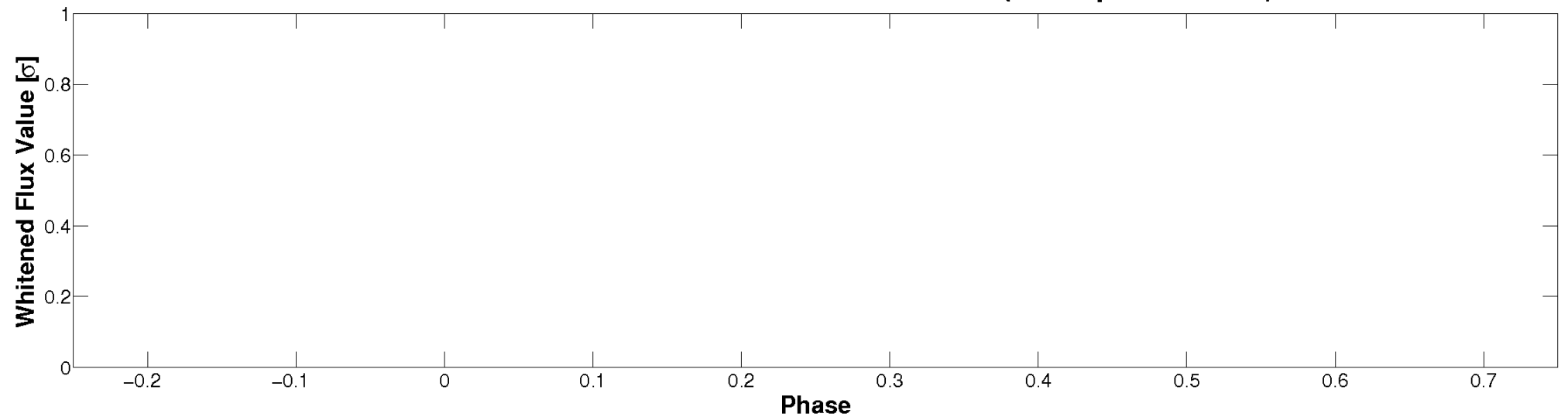


Non-Whitened Vs. Whitened Light Curve

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

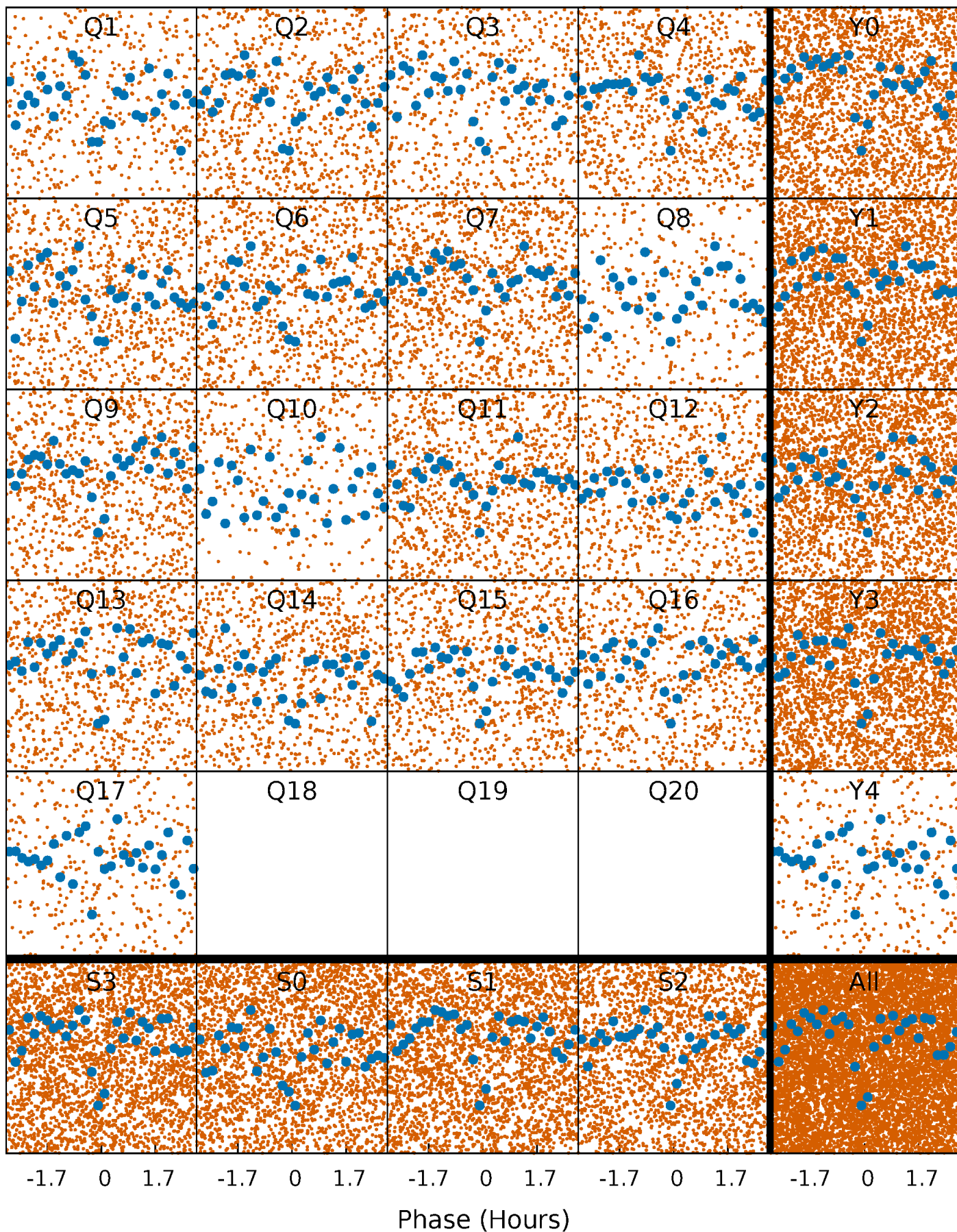


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



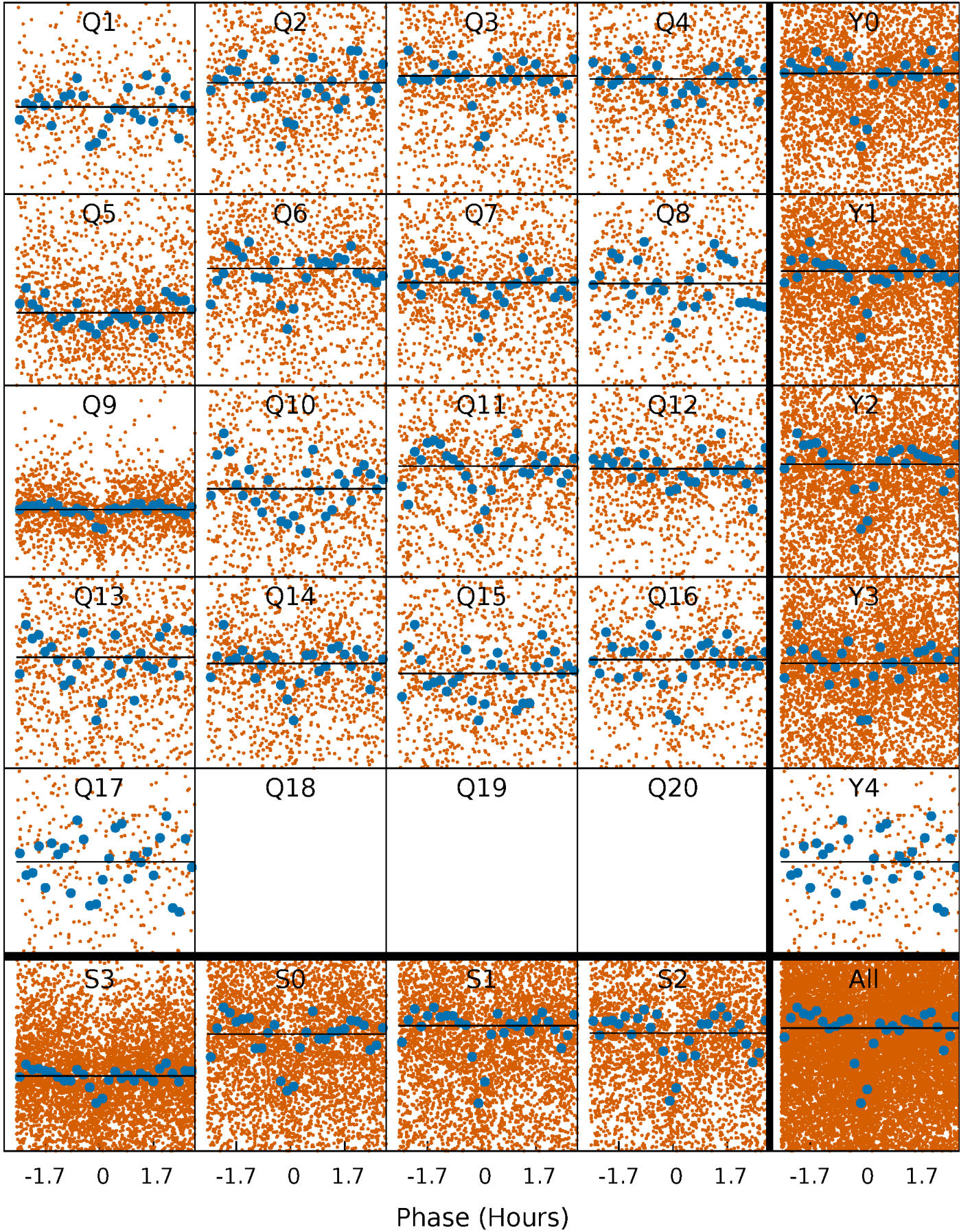
PDC Quarter-Phased Transit Curves

TCE 011969092-02 P= 0.638439 Days $T_0=131.804744$ (BKJD)



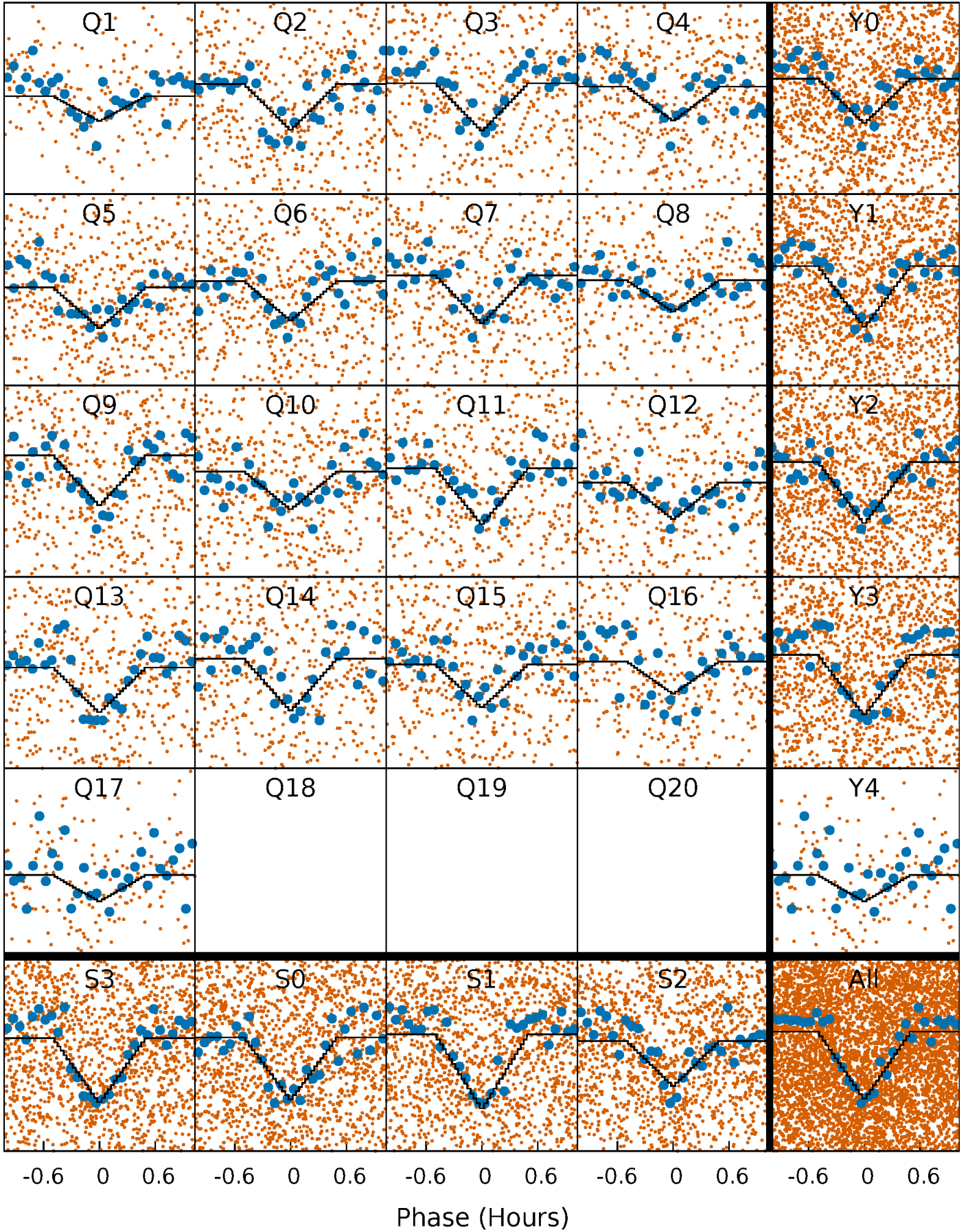
DV Quarter-Phased Transit Curves

TCE 011969092-02 P= 0.638439 Days $T_0=131.804744$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

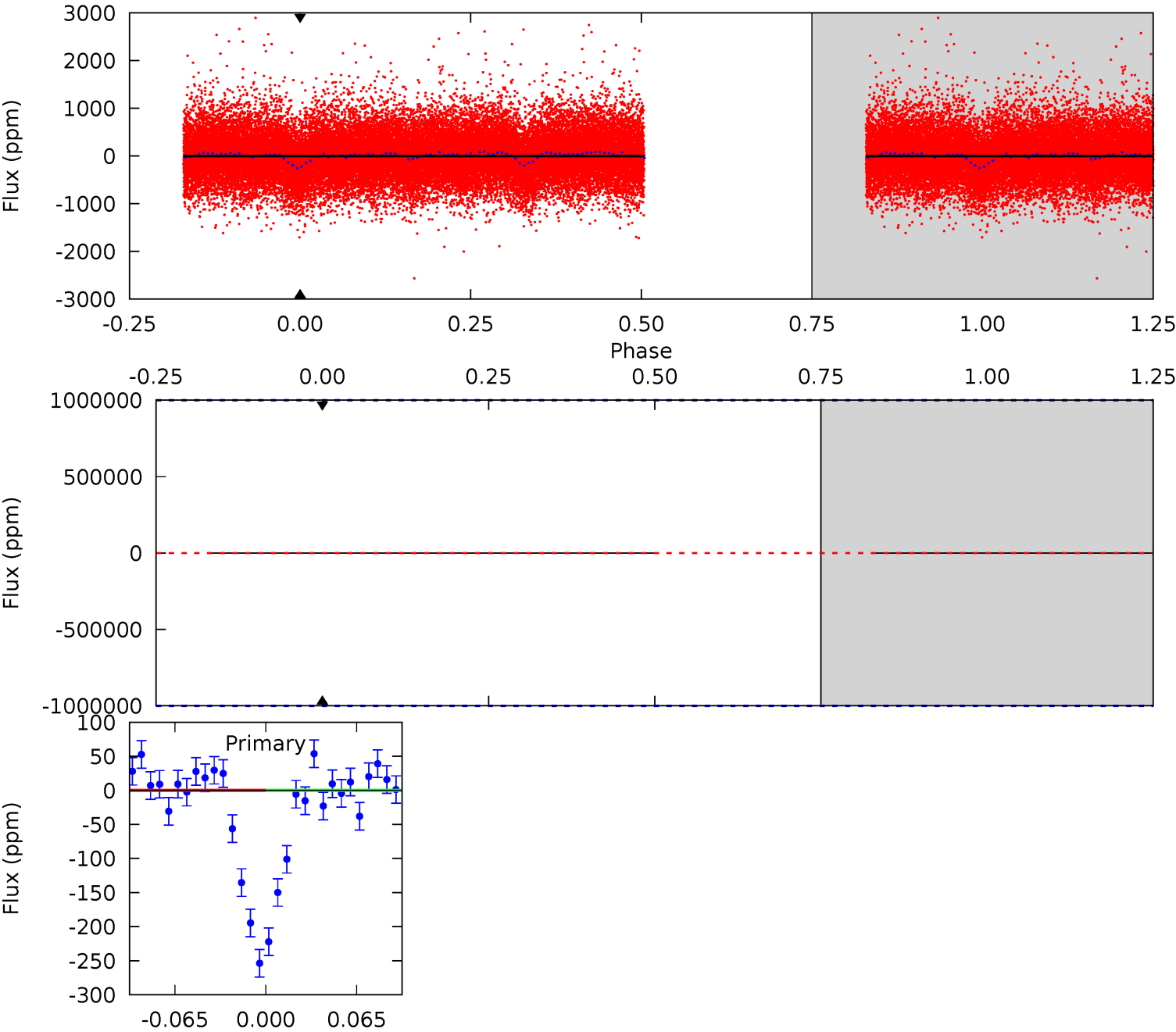
TCE 011969092-02 $P = 0.638439$ Days $T_0 = 131.803318$ (BKJD)



DV Model-Shift Uniqueness Test

011969092-02, P = 0.638439 Days, E = 131.166305 Days

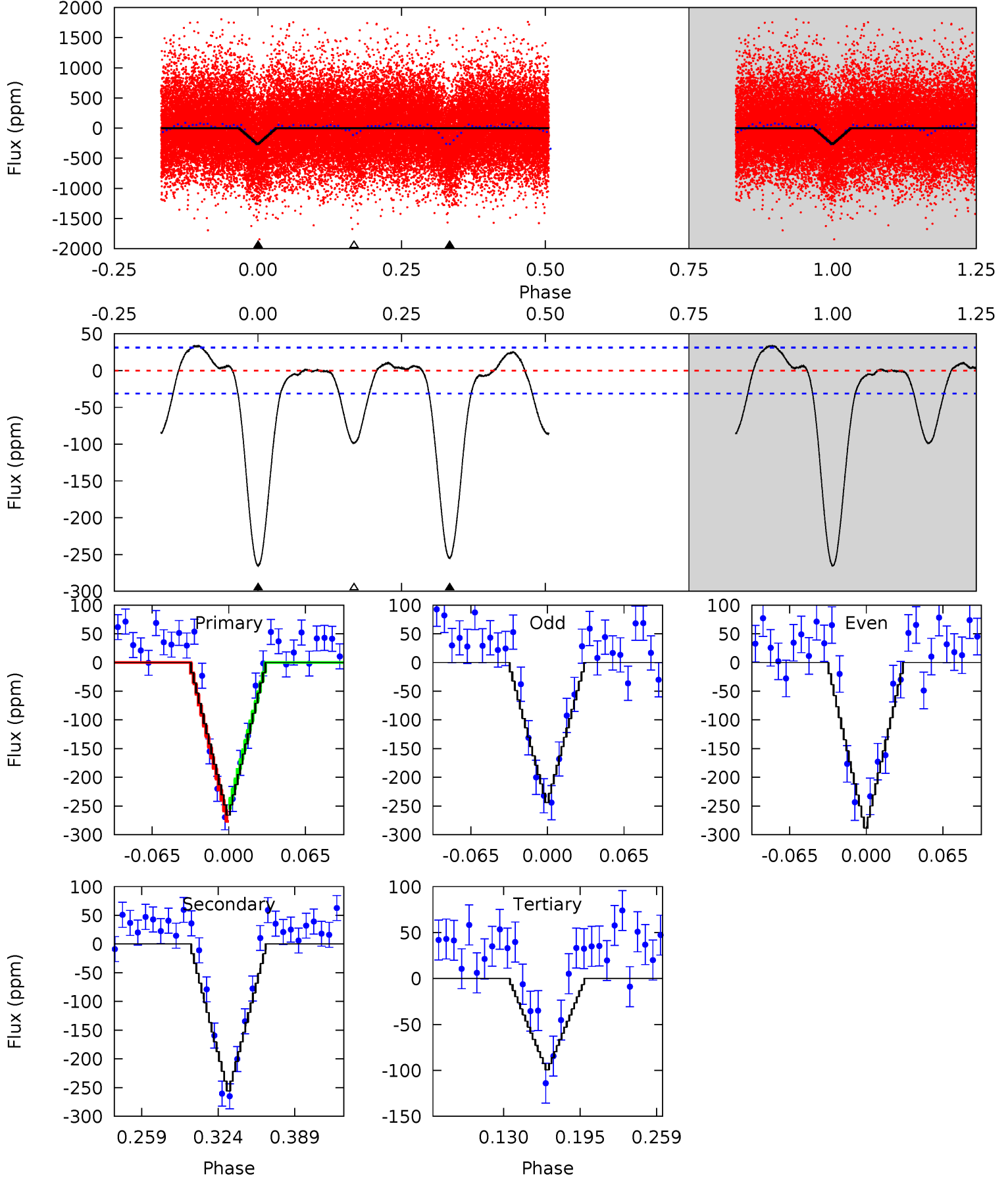
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011969092-02, P = 0.638439 Days, E = 131.164879 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
39.6	38.1	14.8	0	4.65	1.85	5.31	24.8	39.6	23.3	38.1	3.30	0.96	0.11	1.73



Stellar Parameters For KIC 011969092

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5073^{+149}_{-164}	$4.571^{+0.020}_{-0.080}$	$0.480^{+0.050}_{-0.300}$	$0.824^{+0.080}_{-0.046}$	$0.922^{+0.031}_{-0.086}$	$2.324^{+0.288}_{-0.553}$
	+3%/-3%	+0%/-2%	+10%/-62%	+10%/-6%	+3%/-9%	+12%/-24%
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 011969092-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$7.56^{+7.18}_{-5.13}$	2415^{+78}_{-88}	3724^{+11450}_{-15277}	$2.767^{+424.518}_{-239.259}$
Alt.	-256 ± 7	$6.67^{+6.77}_{-4.74}$	2414^{+96}_{-88}	2756^{+1763}_{-5247}	$0.626^{+6.831}_{-0.474}$

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

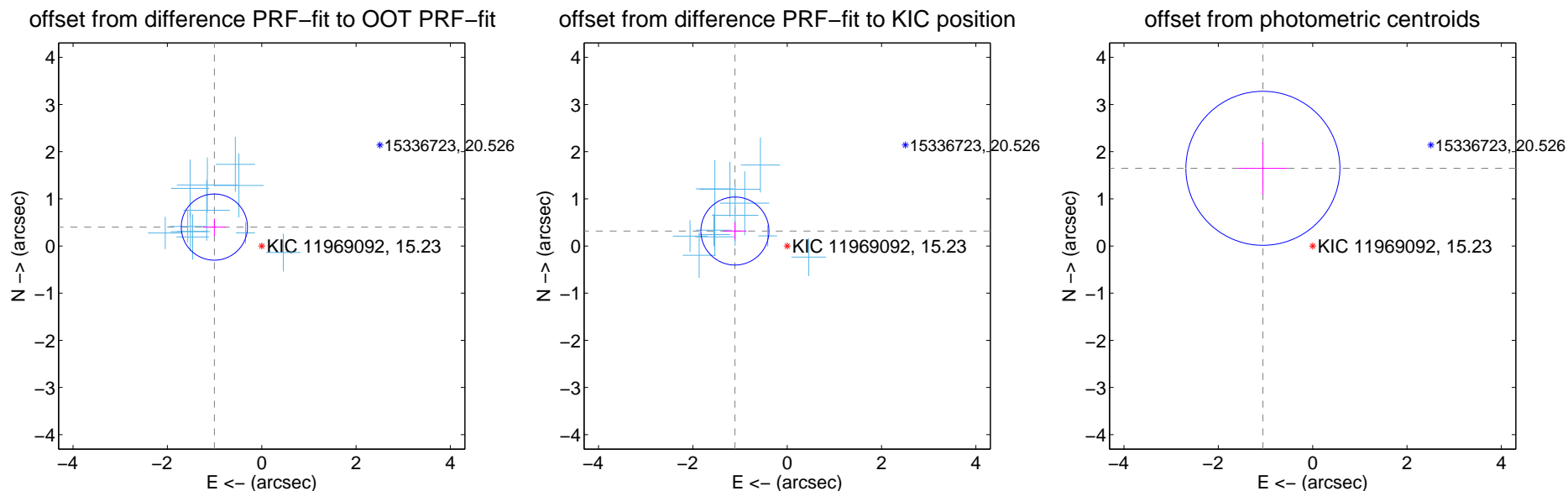
DV Centroid Data

Supplemental centroid analysis for 011969092-02. Kepler magnitude: 15.23. Transit SNR -1.00

There are 12 quarters with good PRF difference image offsets

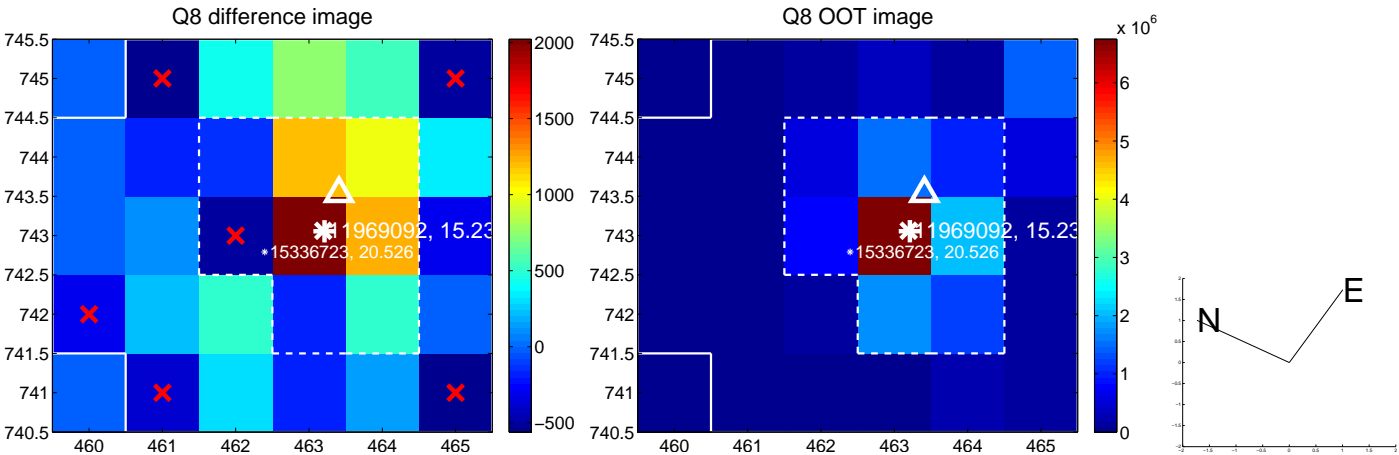
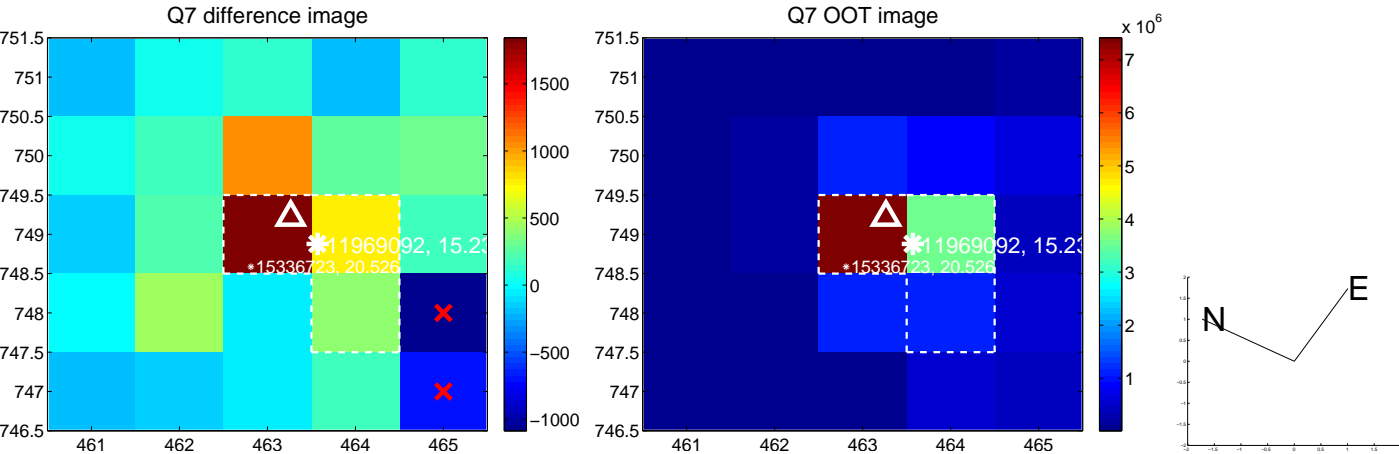
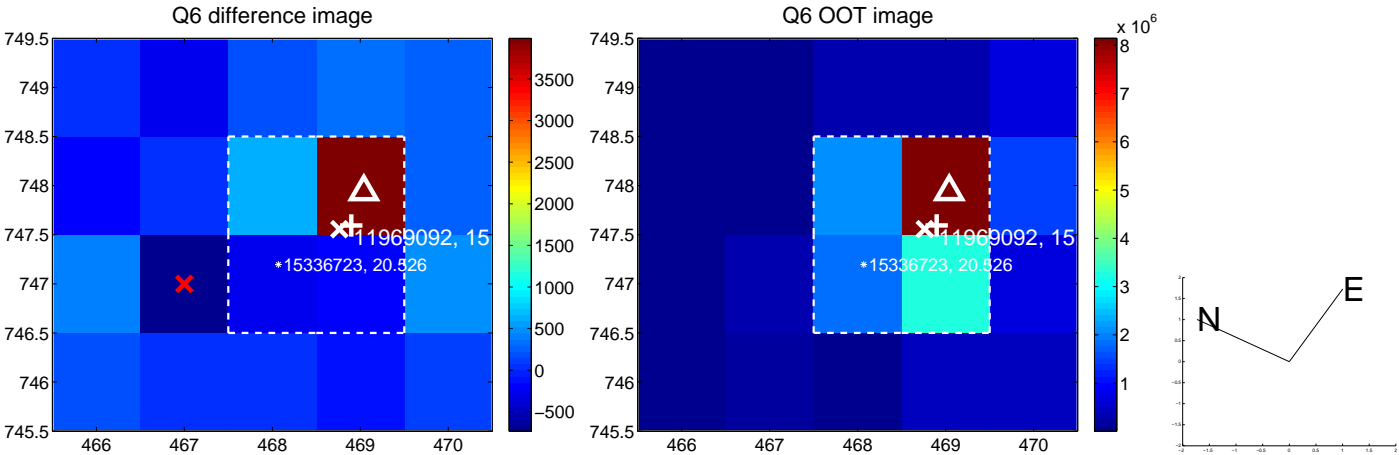
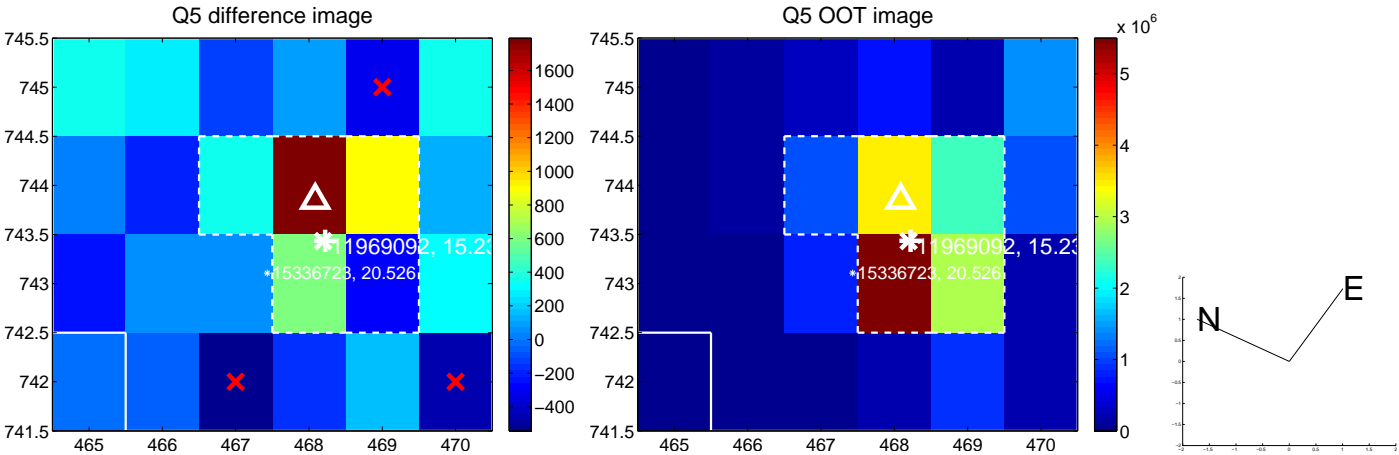
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.082 ± 0.234	4.63	1.005 ± 0.241	0.401 ± 0.183
PRF-fit source offset from KIC position	1.153 ± 0.241	4.79	1.108 ± 0.245	0.318 ± 0.179
photometric centroid source offset	1.96 ± 0.54	3.59	1.06 ± 0.52	1.65 ± 0.55

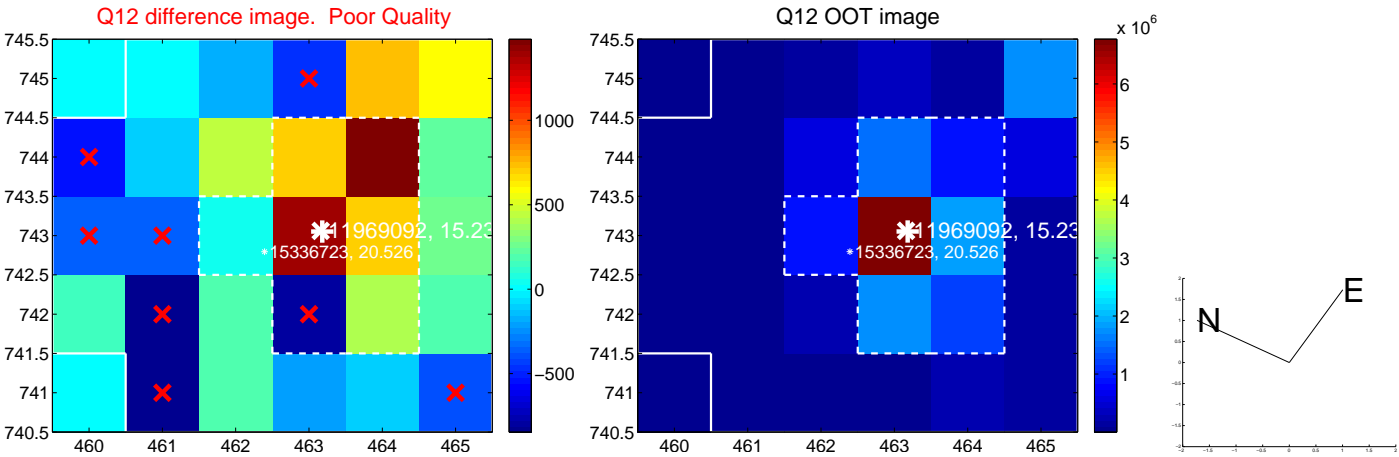
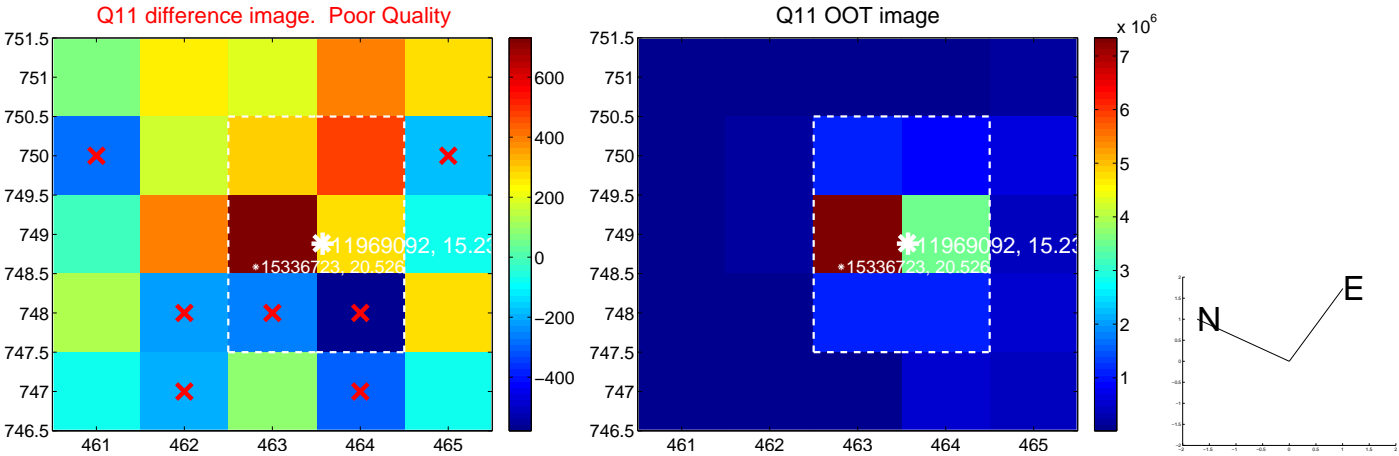
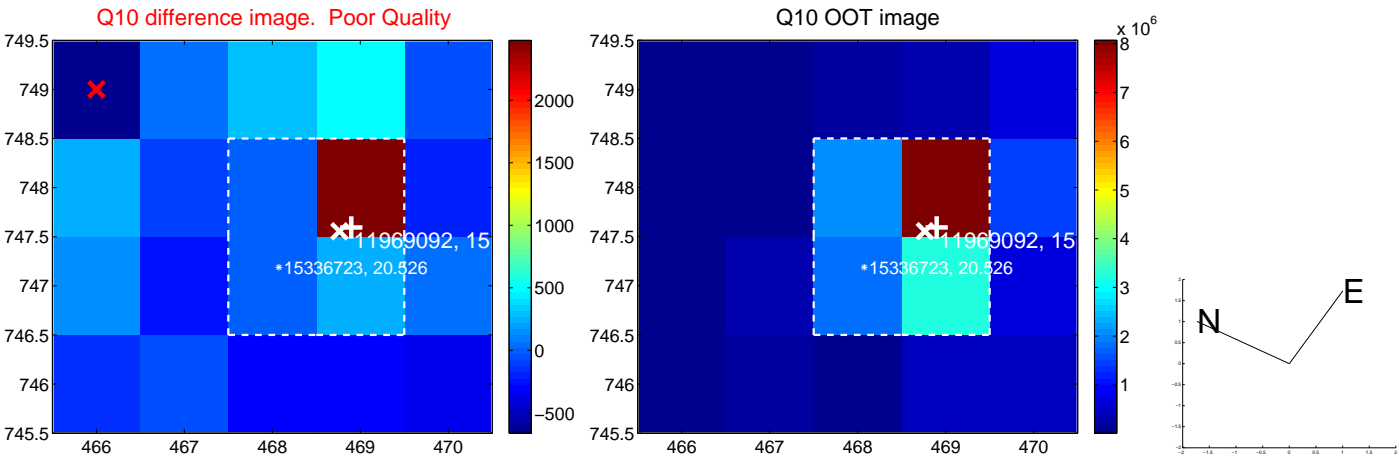
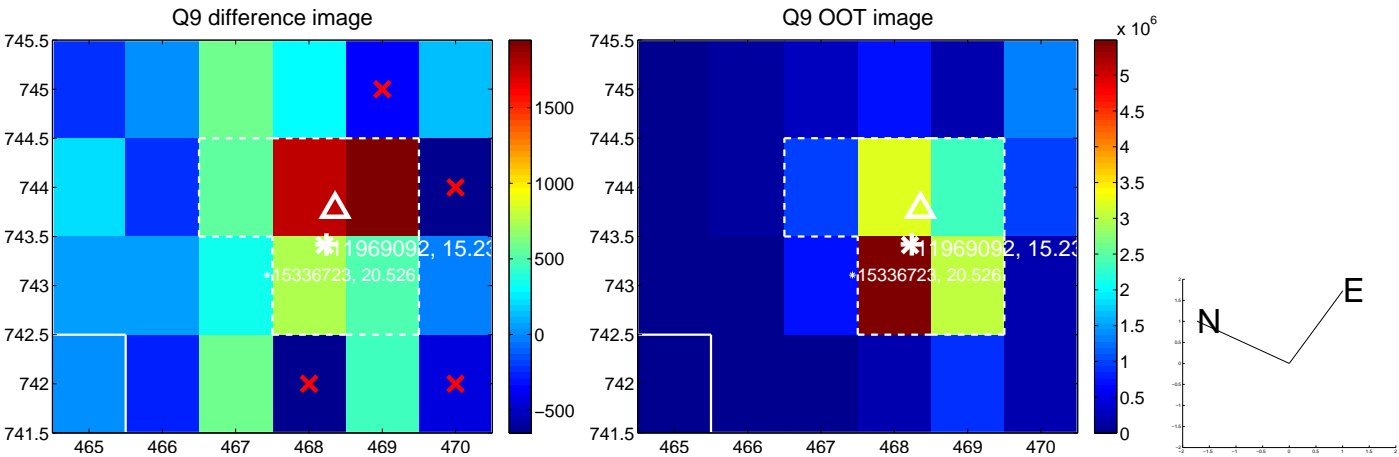


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

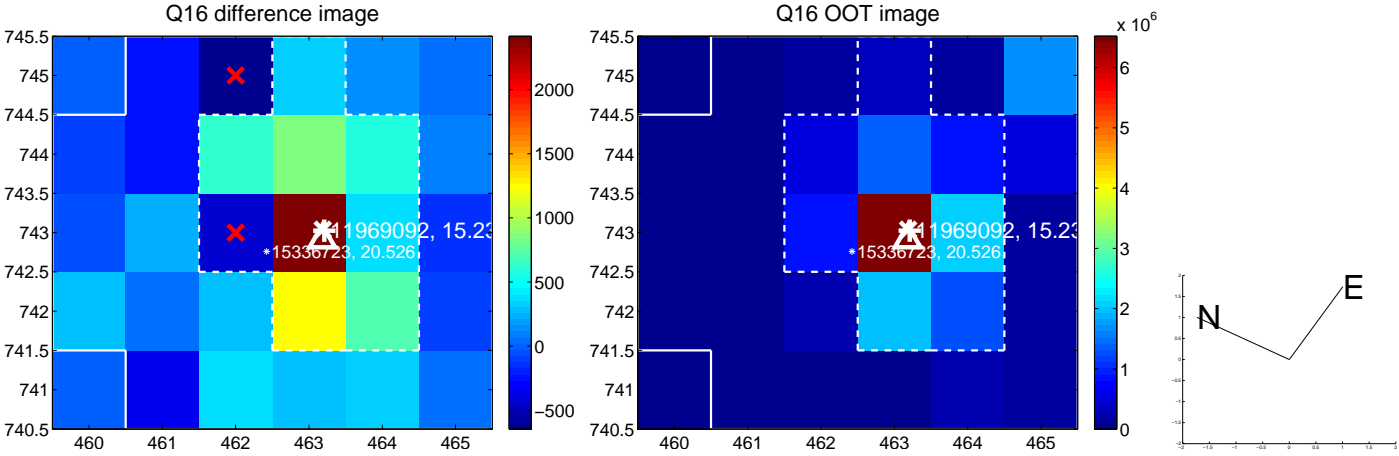
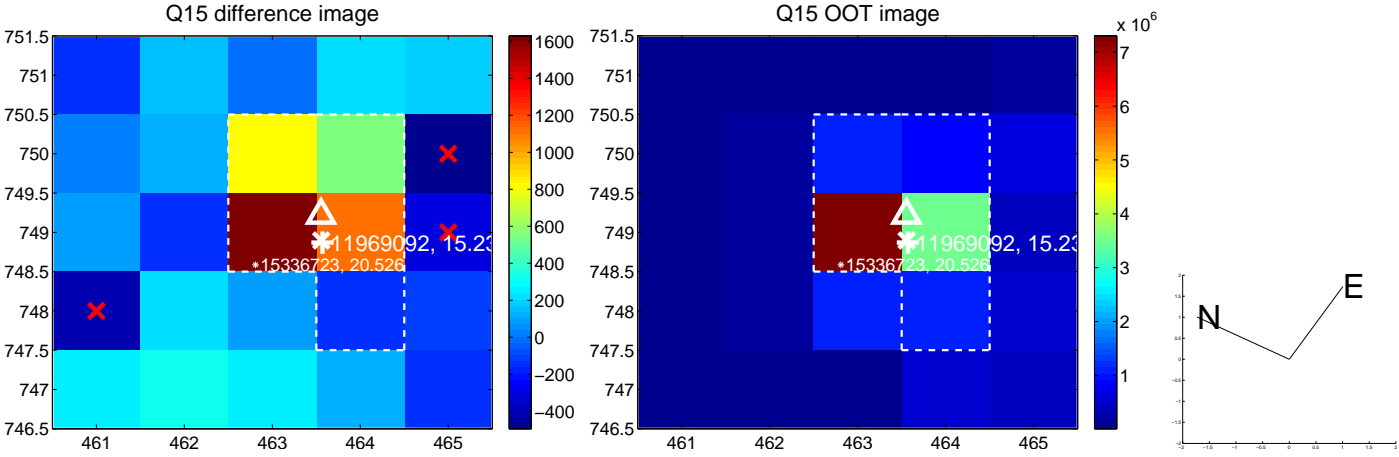
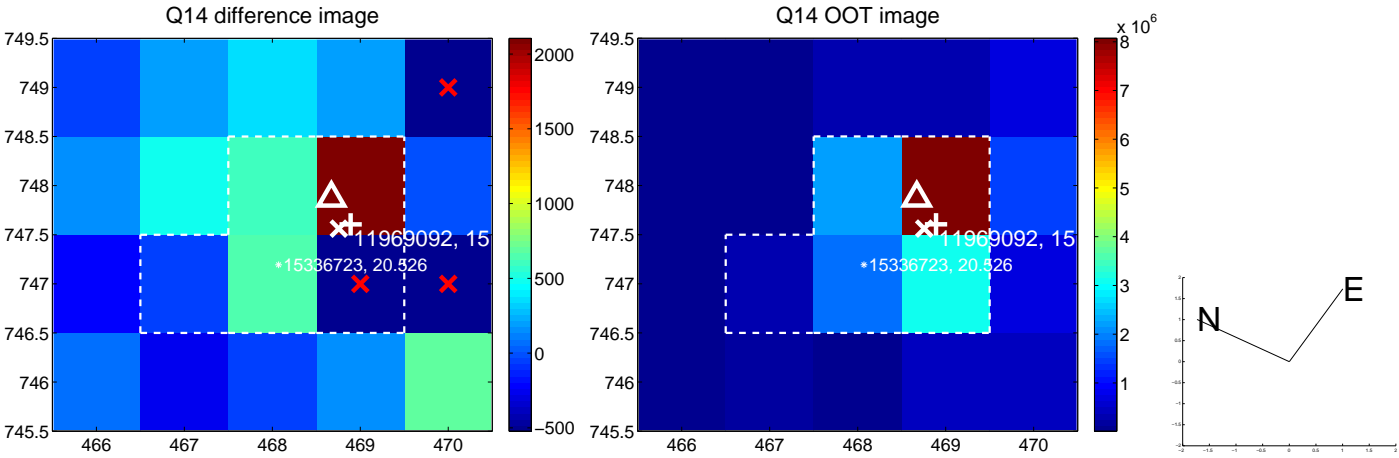
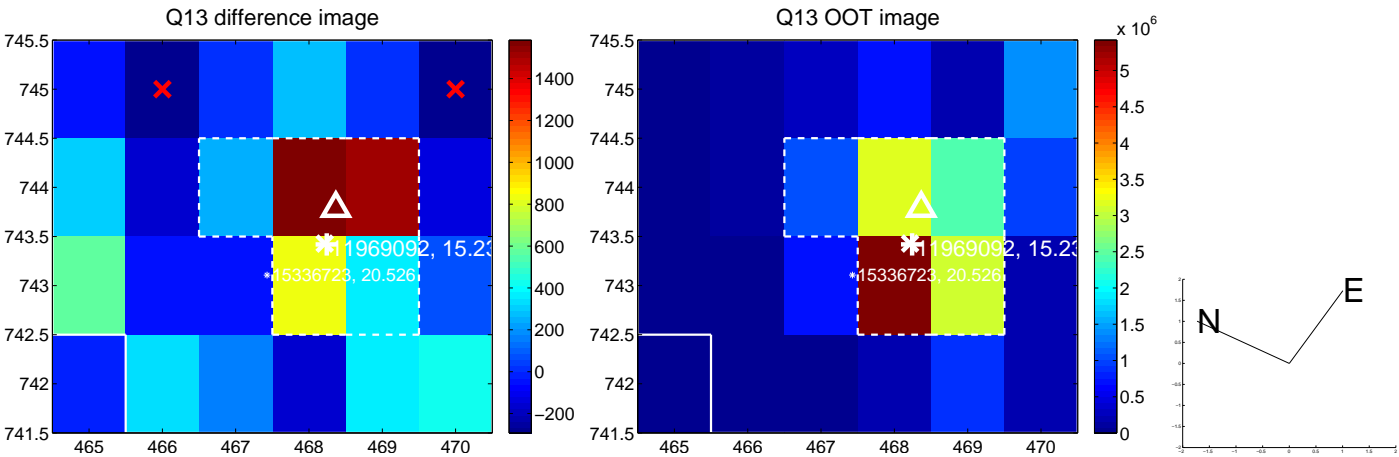
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



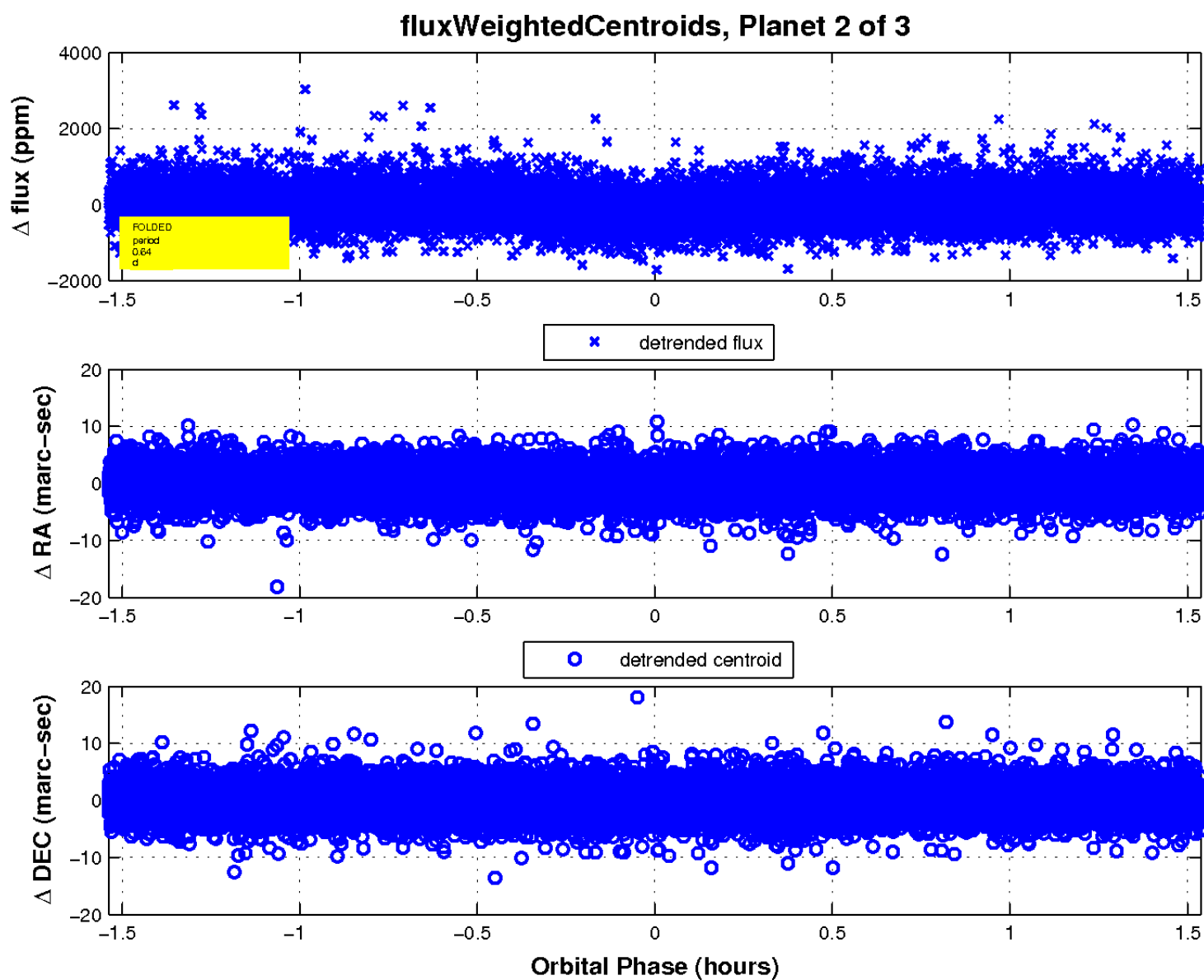
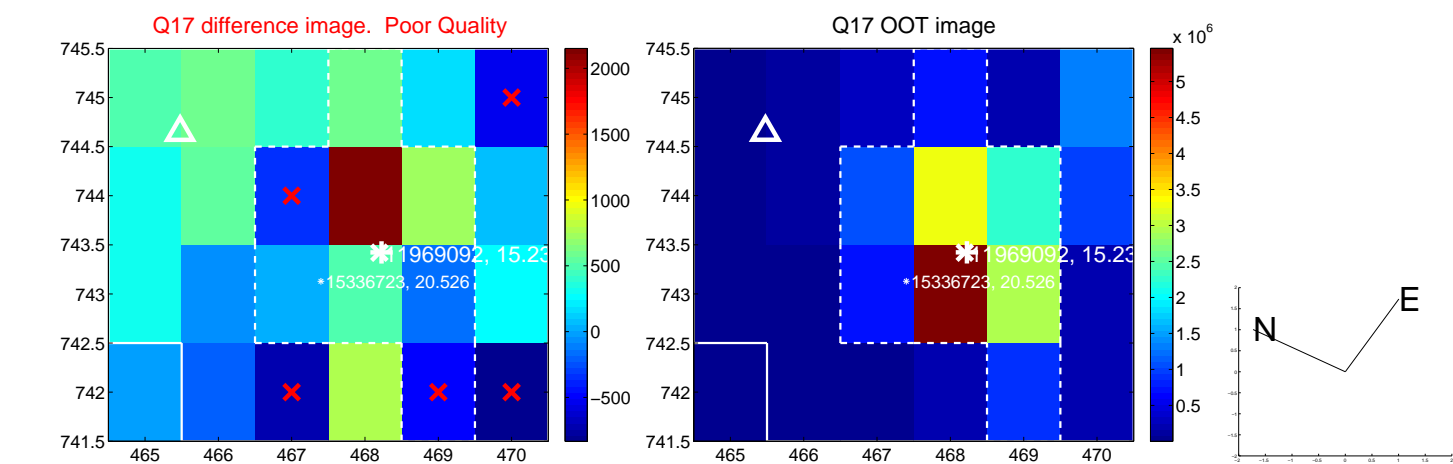
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

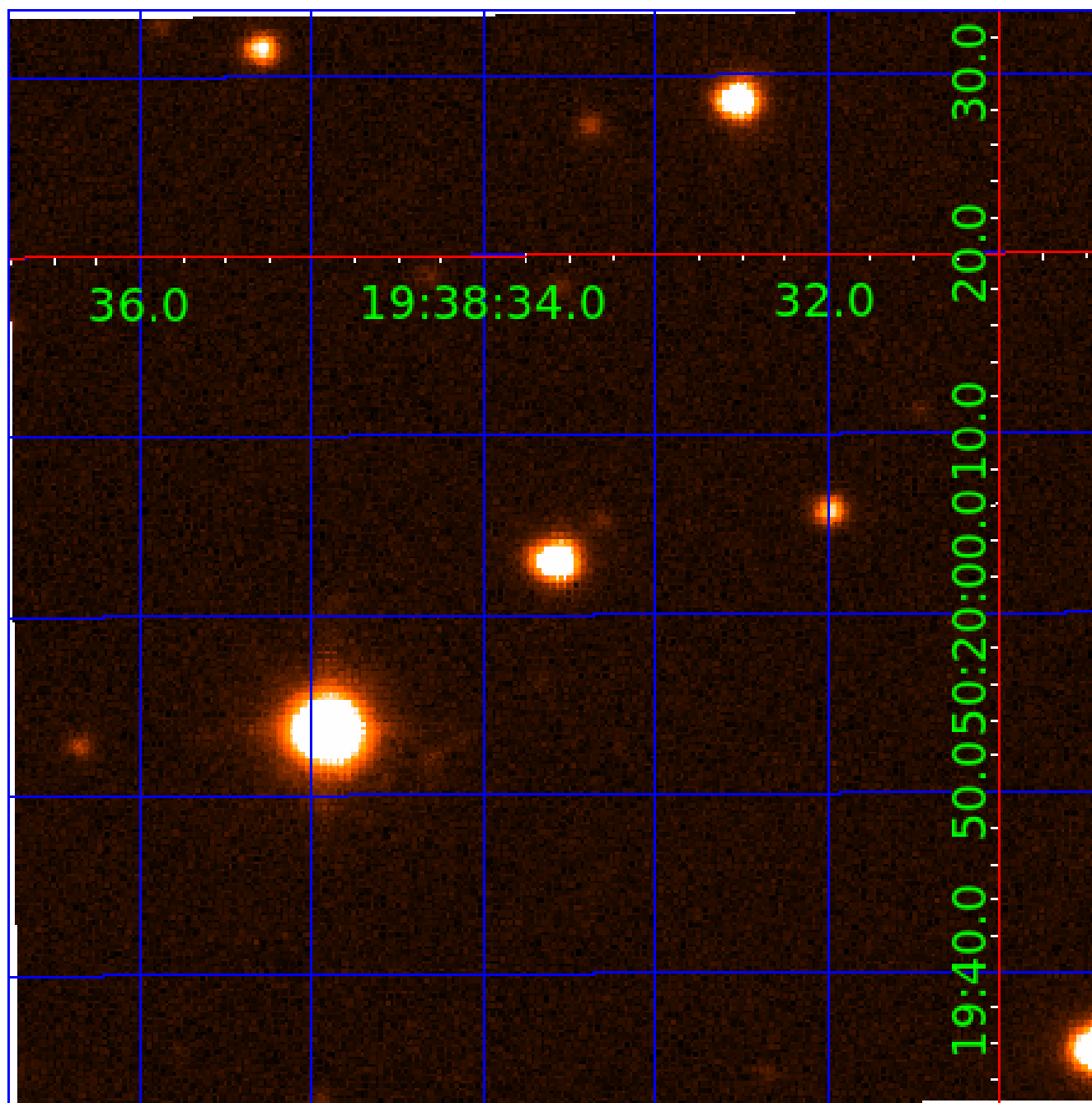


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011969092

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})
011969092-01	OBS	4375.01	0.638439	131.592244	997.8	1.500	10.5	-1.0	0.82	5073	2.53	2018.74
011969092-02	OBS	No	0.638439	131.804744	1063.1	1.500	9.6	-1.0	0.82	5073	2.61	2018.74
011969092-03	OBS	No	0.638437	132.013995	157.6	0.640	8.5	16.1	0.82	5073	1.14	2018.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011969092-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS
011969092-02	OBS	FP	0.00	1	0	0	0	LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS
011969092-03	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_UNRESOLVED_OFFSET

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.

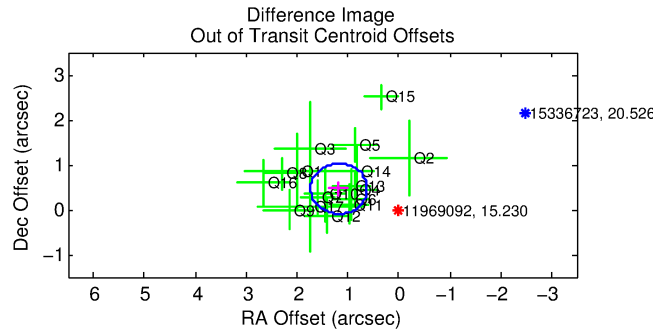
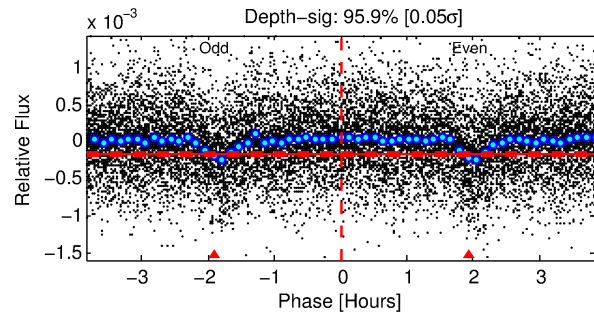
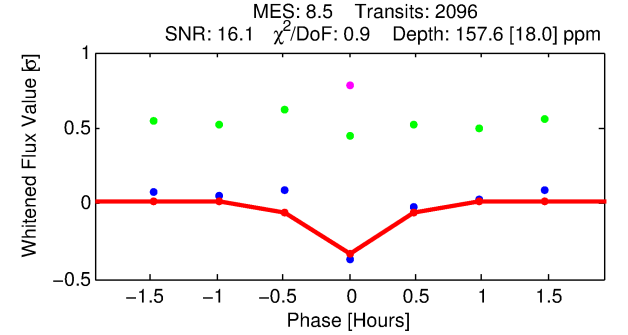
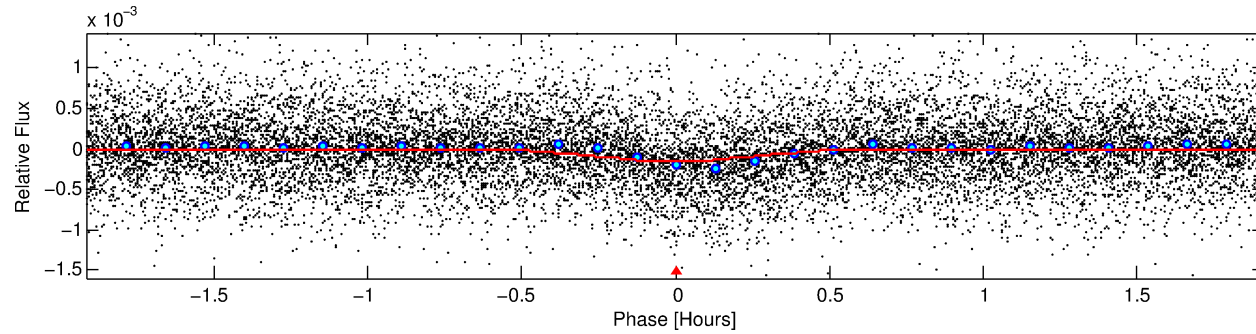
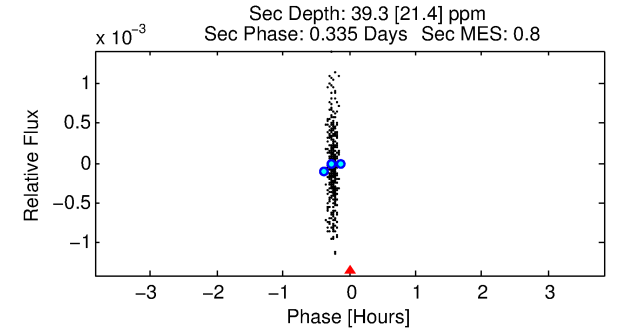
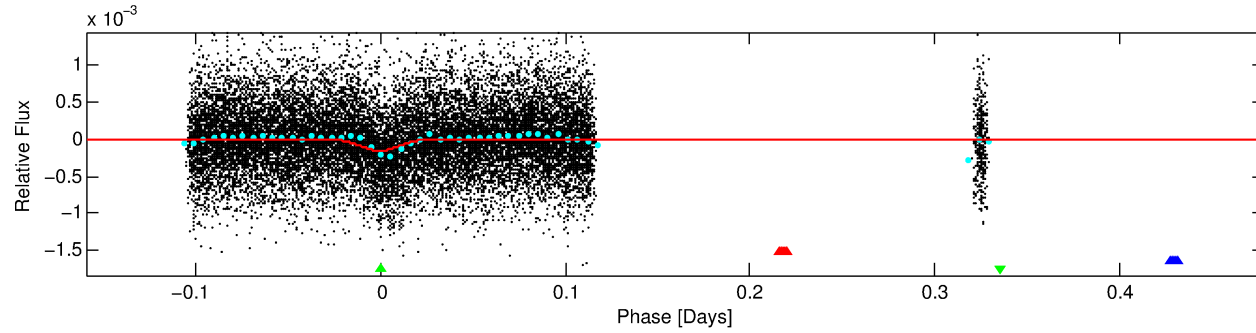
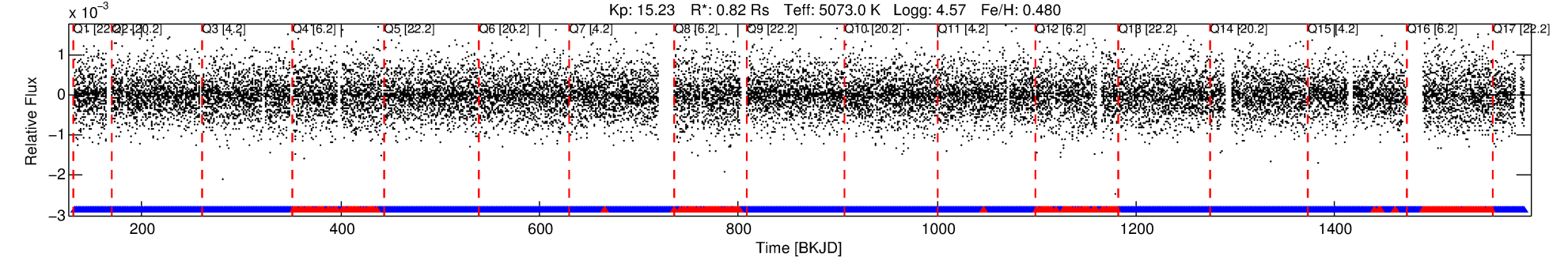
Ephemeris Match Information For 011969092-03

No Significant Match Found

DV One-Page Summary

KIC: 11969092 Candidate: 3 of 3 Period: 0.638 d
KOI: K04375 Corr: No Ephemeris Match

Kp: 15.23 R*: 0.82 Rs Teff: 5073.0 K Logg: 4.57 Fe/H: 0.480



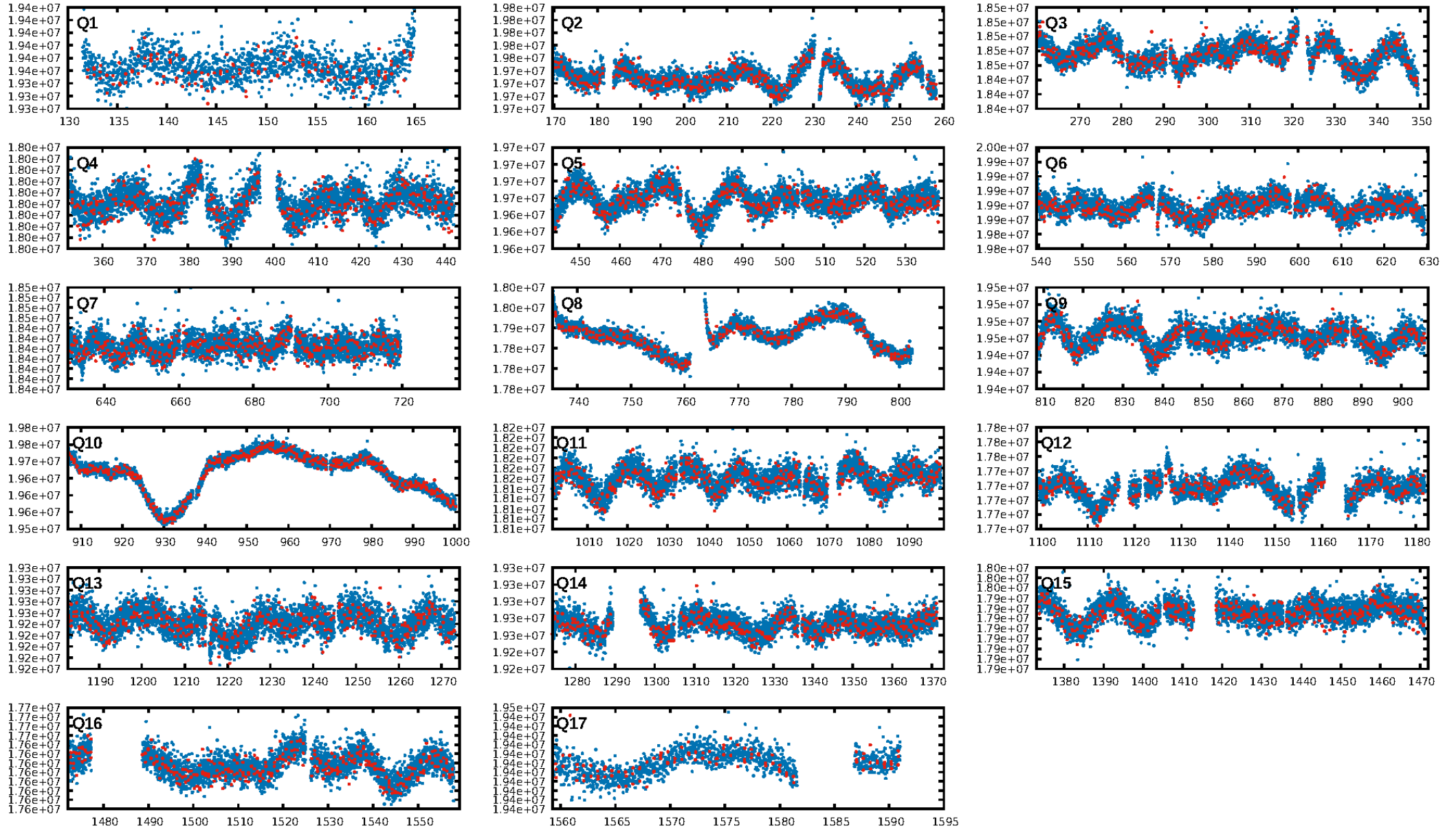
DV Fit Results:

Period = 0.63844 [0.00001] d
Epoch = 132.0140 [0.0009] BKJD
Rp/R* = 0.0127 [0.0060]
a/R* = 5.63 [9.01]
b = 0.70 [1.21]
Seff = 2018.74 [382.99]
Teff = 1709 [81] K
Rp = 1.14 [0.56] Re
a = 0.0141 [0.0013] AU
Ag = 3.30 [3.65] [0.63σ]
Teffp = 3562 [983] K [1.88σ]

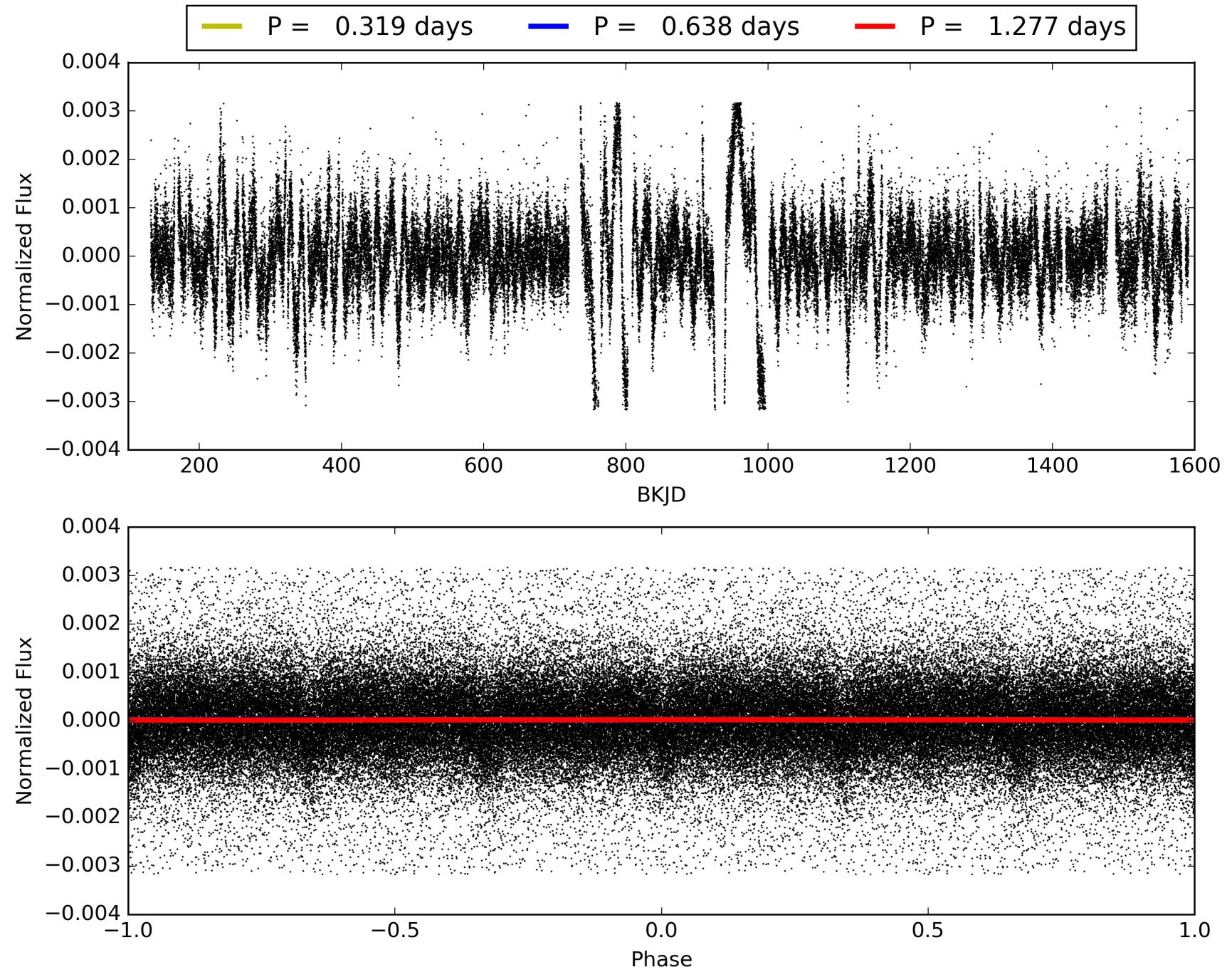
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.50e-16
RollingBand-fgt: 0.88 [1758/2002]
GhostDiagnostic-chr: 2.766
Centroid-sig: N/A
Centroid-so: 0.497 arcsec [0.60σ]
OotOffset-rm: 1.267 arcsec [6.82σ]
KicOffset-rm: 1.382 arcsec [7.81σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.88 [15/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 011969092-03, PDC Light Curves

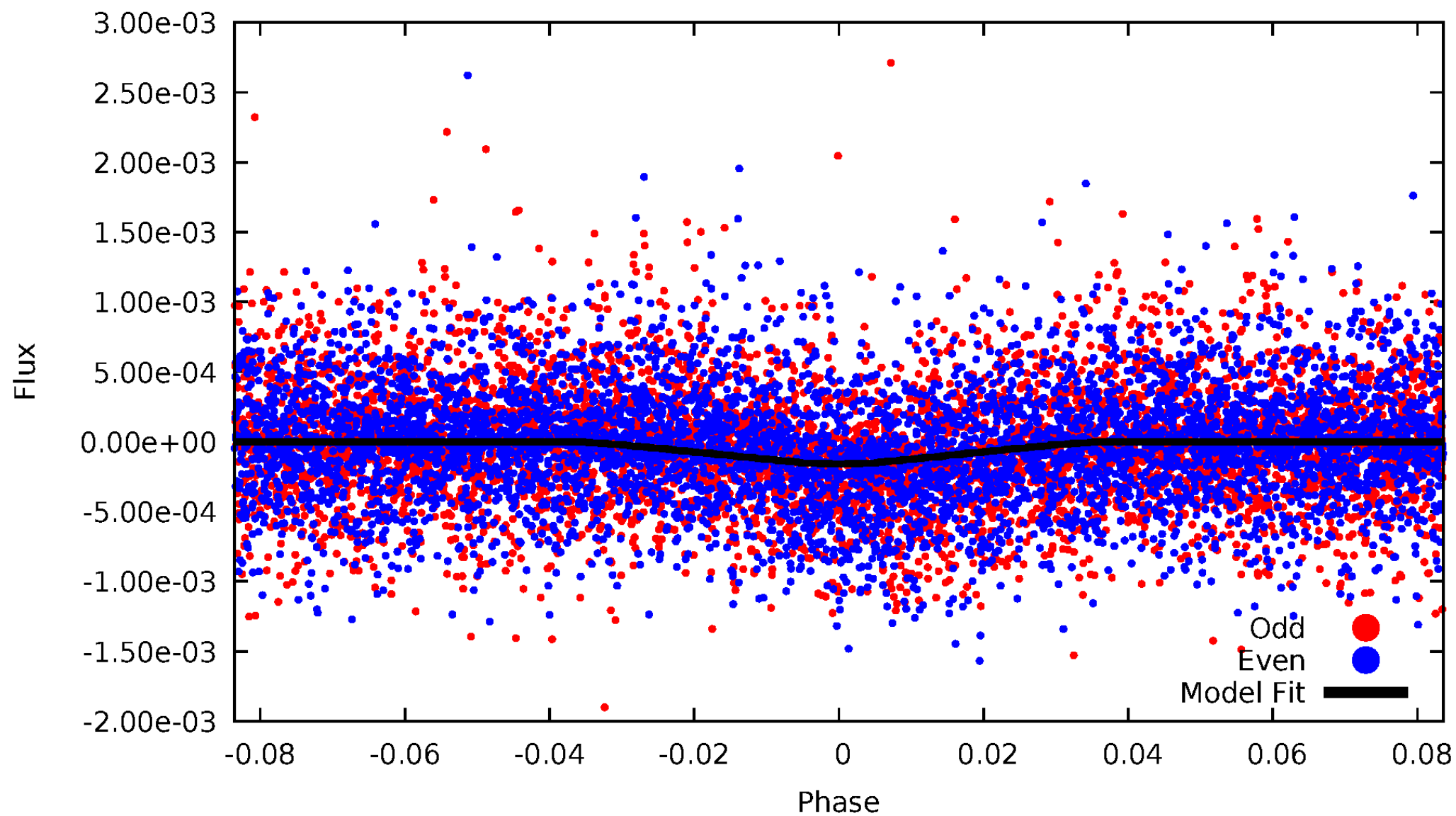


TCE 011969092-03



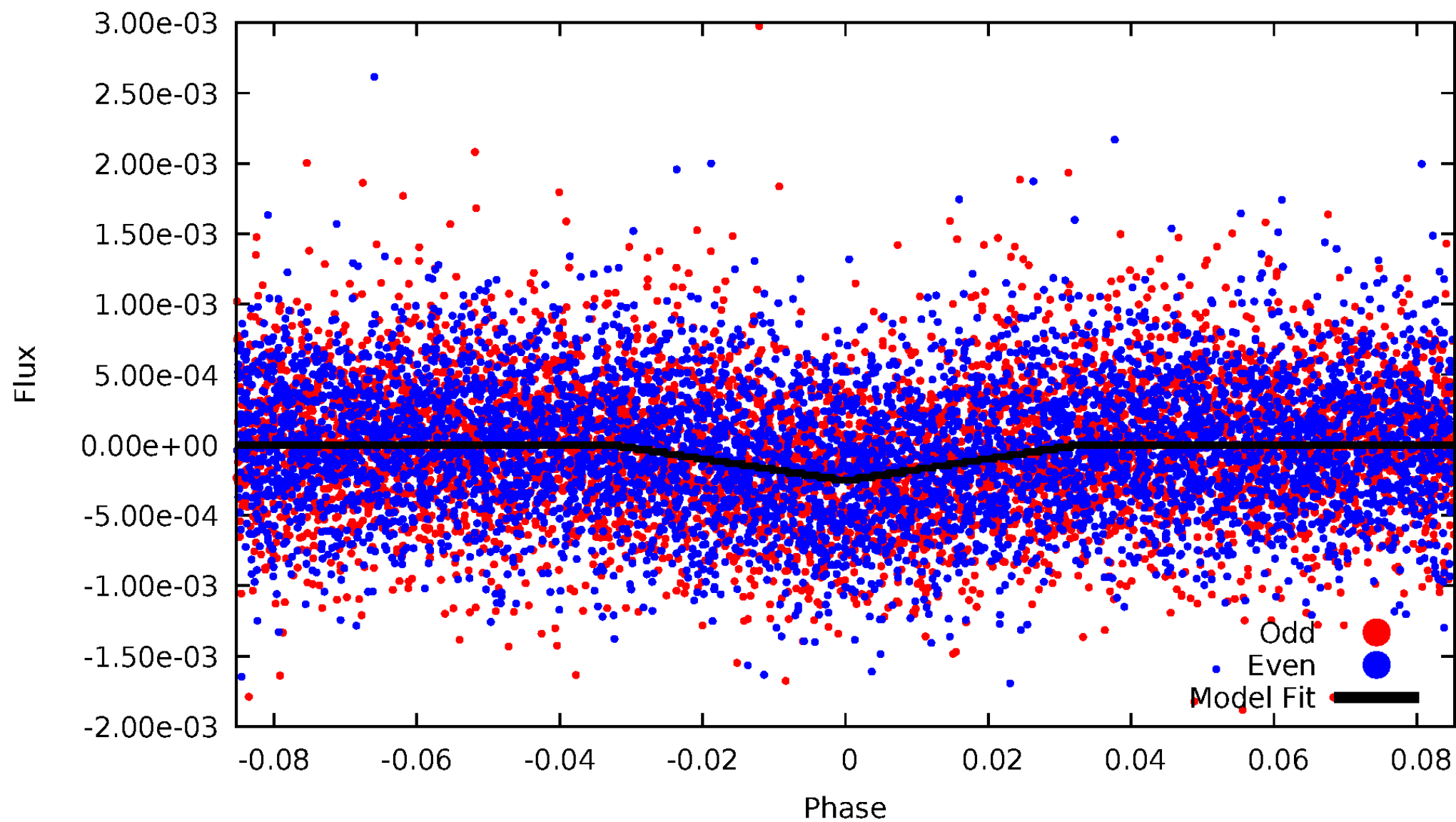
DV Odd/Even

TCE 011969092-03

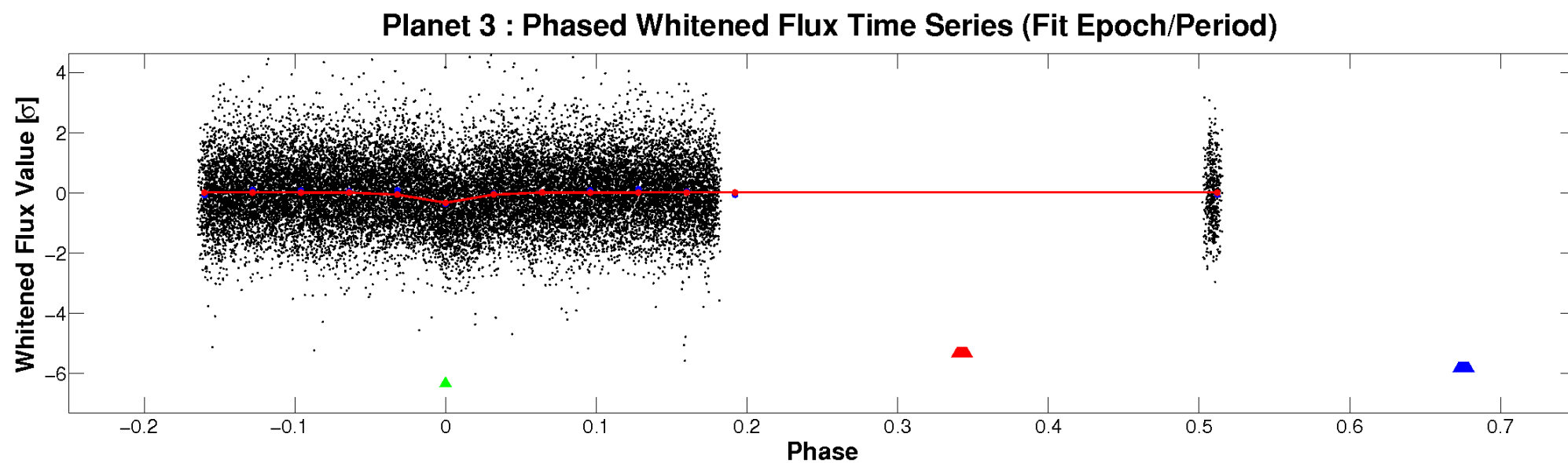
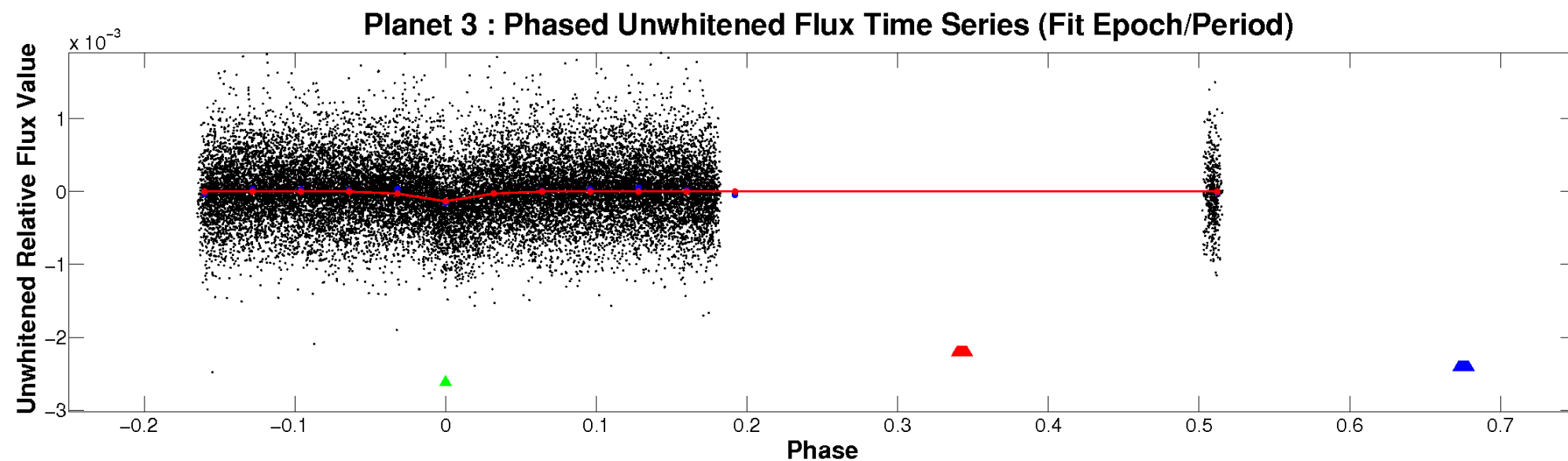


ALT Odd/Even

TCE 011969092-03

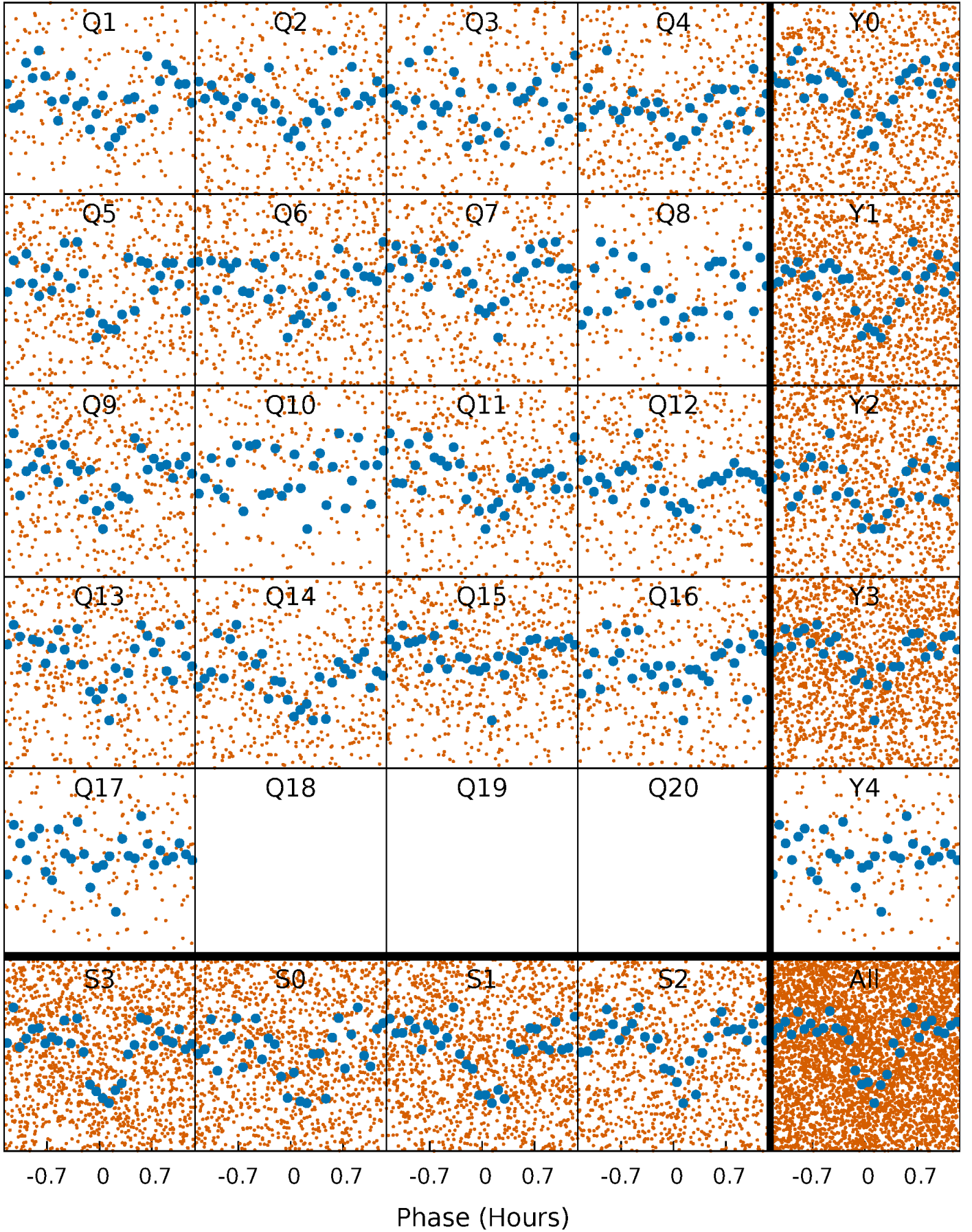


Non-Whitened Vs. Whitened Light Curve



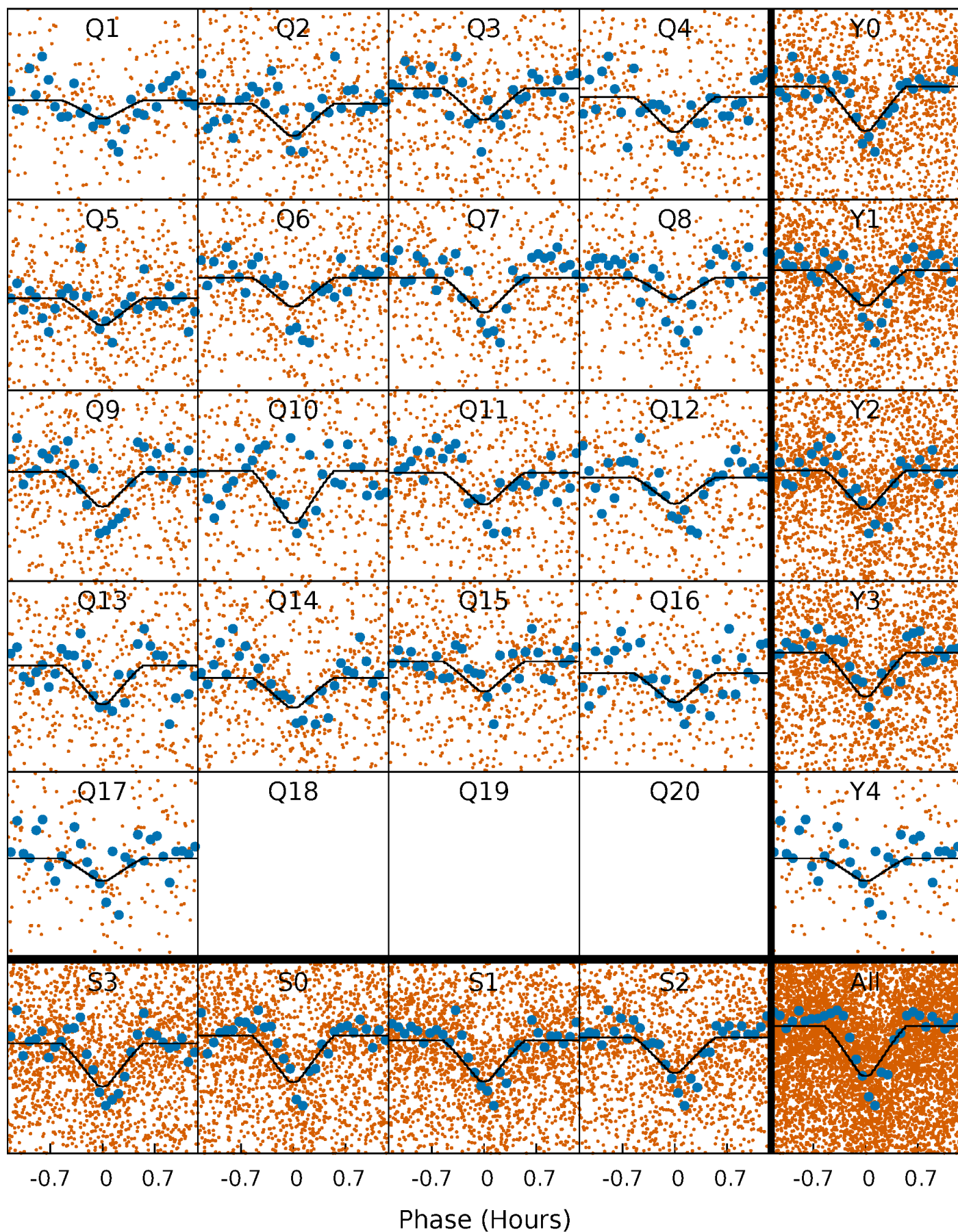
PDC Quarter-Phased Transit Curves

TCE 011969092-03 P= 0.638437 Days $T_0=132.013994$ (BKJD)



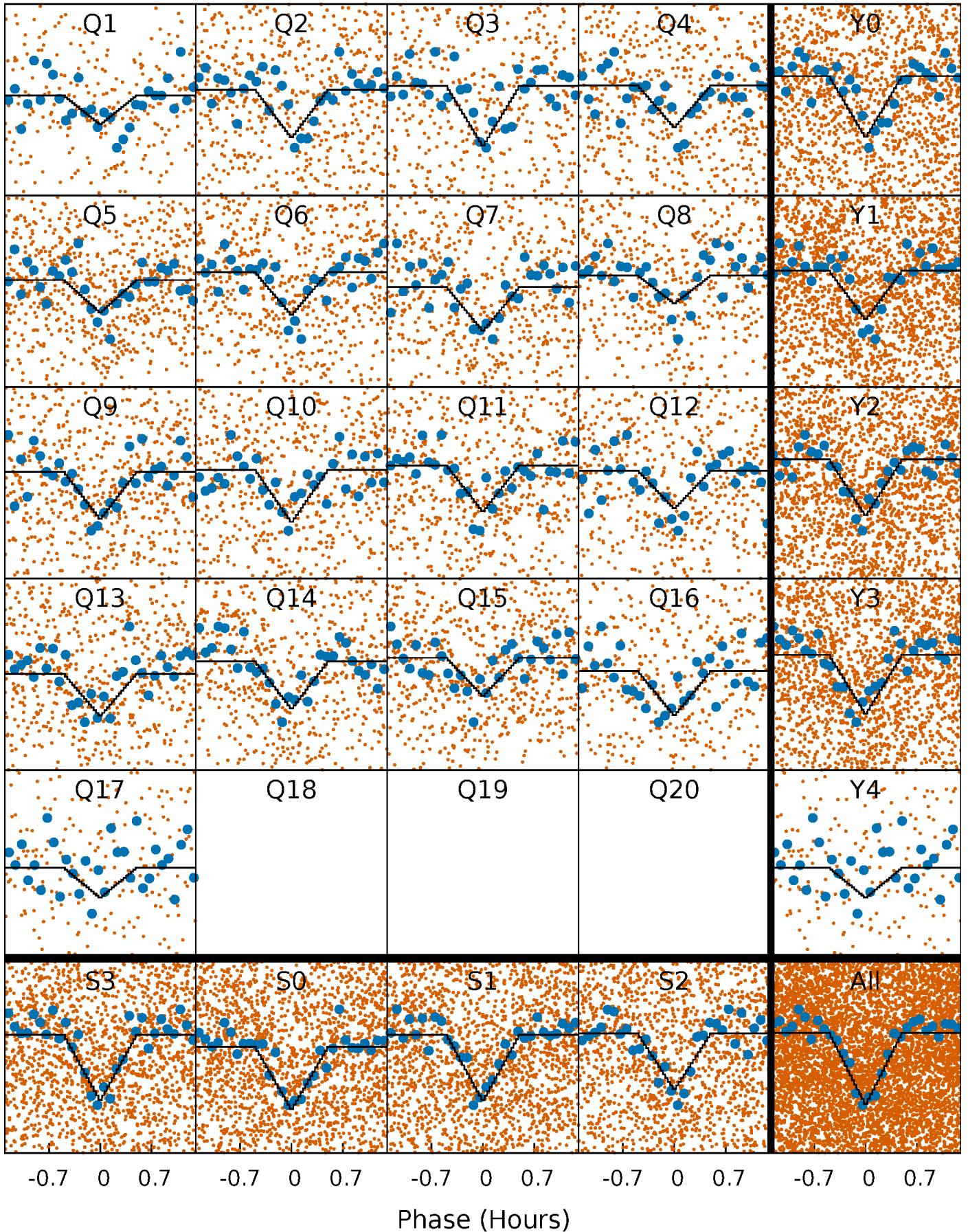
DV Quarter-Phased Transit Curves

TCE 011969092-03 P= 0.638437 Days $T_0=132.013994$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

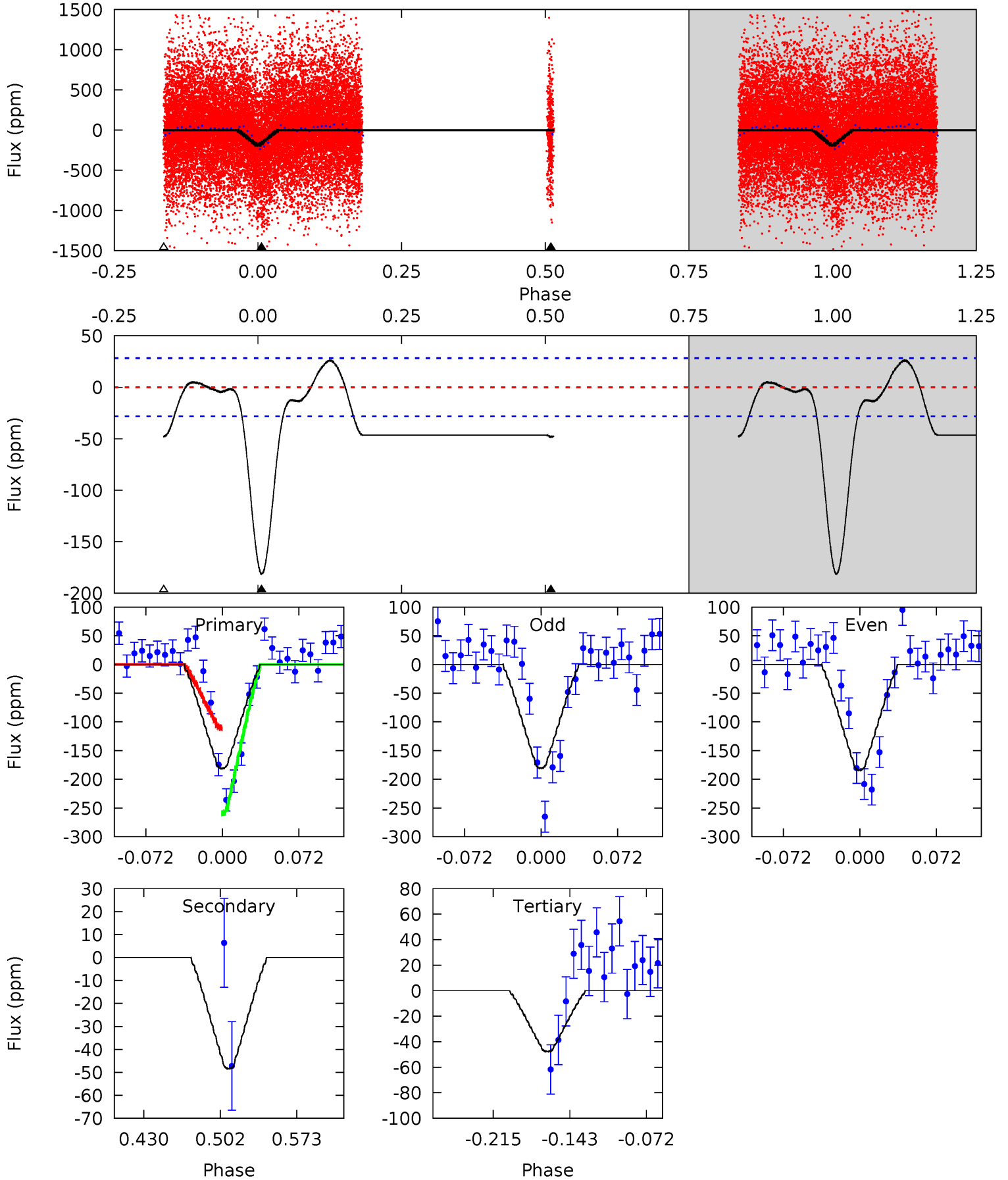
TCE 011969092-03 P= 0.638444 Days $T_0=132.009949$ (BKJD)



DV Model-Shift Uniqueness Test

011969092-03, P = 0.638437 Days, E = 131.375557 Days

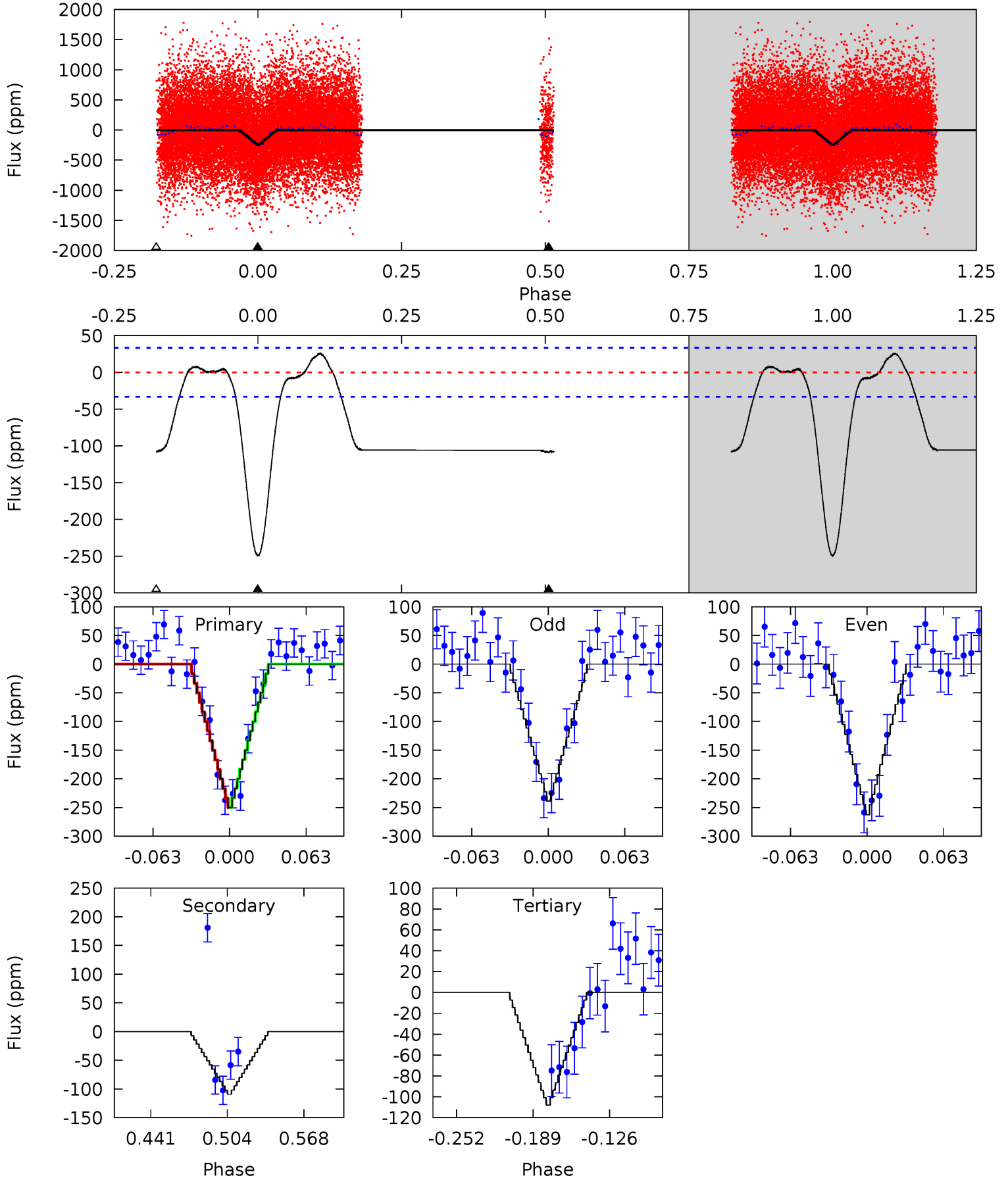
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.7	7.93	7.82	0	4.63	1.80	3.16	21.9	29.7	0.11	7.93	0.29	1.02	0.13	12.3



Alt Model-Shift Uniqueness Test

011969092-03, P = 0.638444 Days, E = 131.371505 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
35.1	15.3	15.2	0	4.66	1.86	5.38	19.9	35.1	0.16	15.3	1.67	1.00	0.09	0.05



Stellar Parameters For KIC 011969092

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5073^{+149}_{-164}	$4.571^{+0.020}_{-0.080}$	$0.480^{+0.050}_{-0.300}$	$0.824^{+0.080}_{-0.046}$	$0.922^{+0.031}_{-0.086}$	$2.324^{+0.288}_{-0.553}$
	+3%/-3%	+0%/-2%	+10%/-62%	+10%/-6%	+3%/-9%	+12%/-24%
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 011969092-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-48 ± 6	$1.18^{+0.51}_{-0.54}$	2415^{+89}_{-86}	3930^{+1059}_{-535}	$3.679^{+8.687}_{-1.925}$
Alt.	-109 ± 7	$1.42^{+0.53}_{-0.56}$	2415^{+90}_{-79}	4286^{+991}_{-509}	$5.819^{+9.740}_{-2.704}$

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

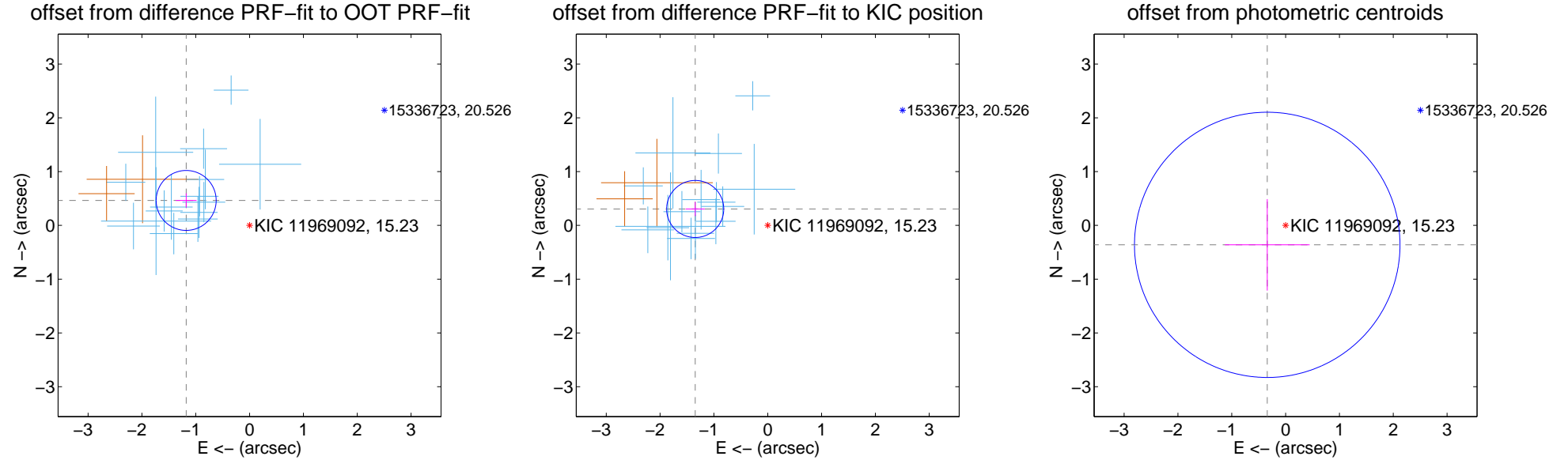
DV Centroid Data

Supplemental centroid analysis for 011969092-03. Kepler magnitude: 15.23. Transit SNR 16.06

There are 15 quarters with good PRF difference image offsets

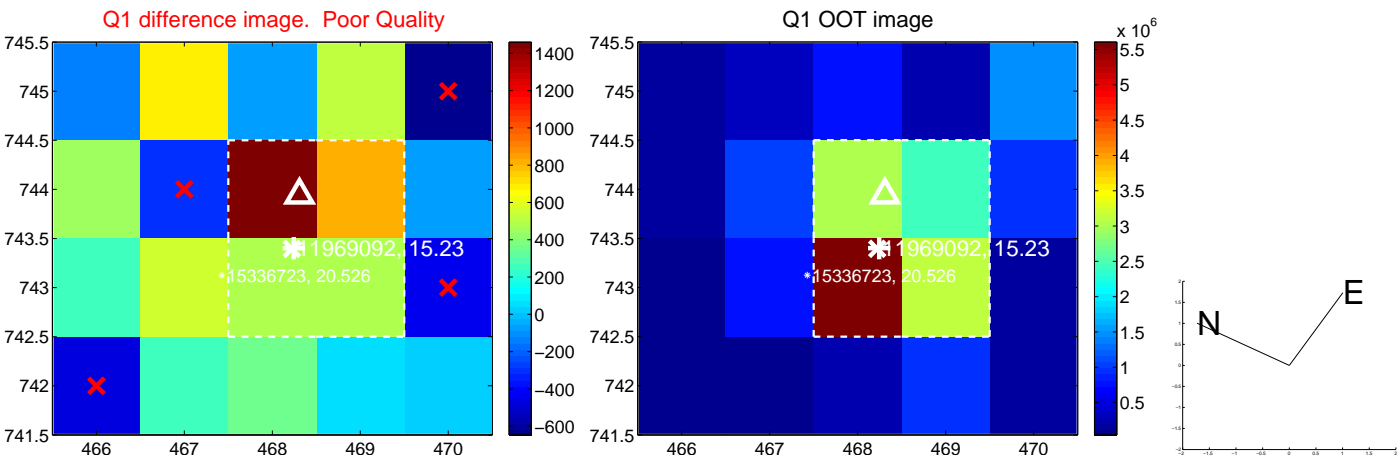
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.267 ± 0.186	6.82	1.178 ± 0.193	0.464 ± 0.132
PRF-fit source offset from KIC position	1.382 ± 0.177	7.81	1.348 ± 0.179	0.305 ± 0.131
photometric centroid source offset	0.50 ± 0.82	0.60	0.34 ± 0.79	-0.36 ± 0.85

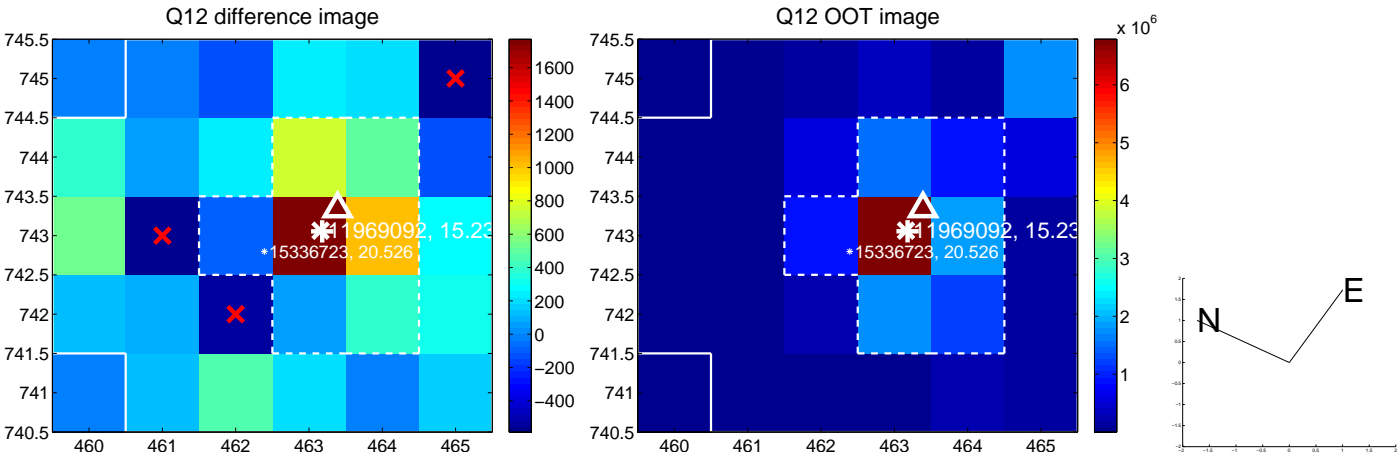
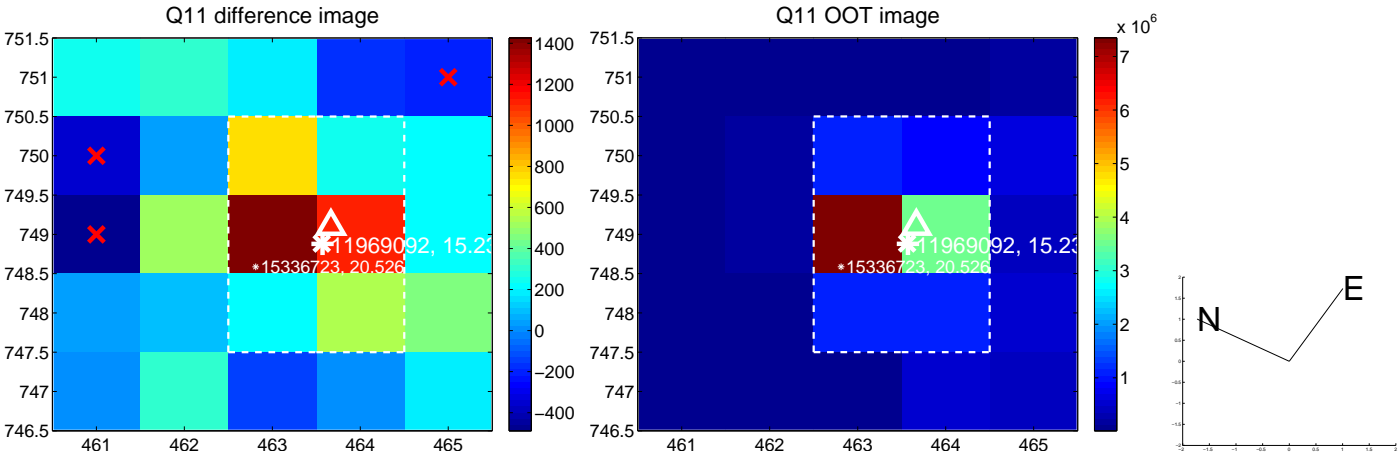
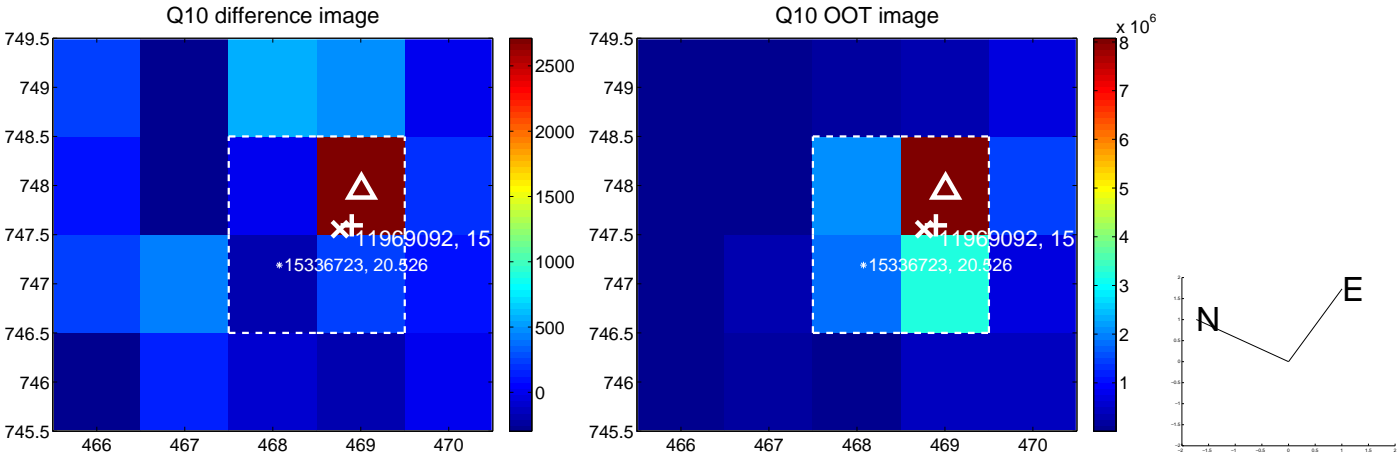
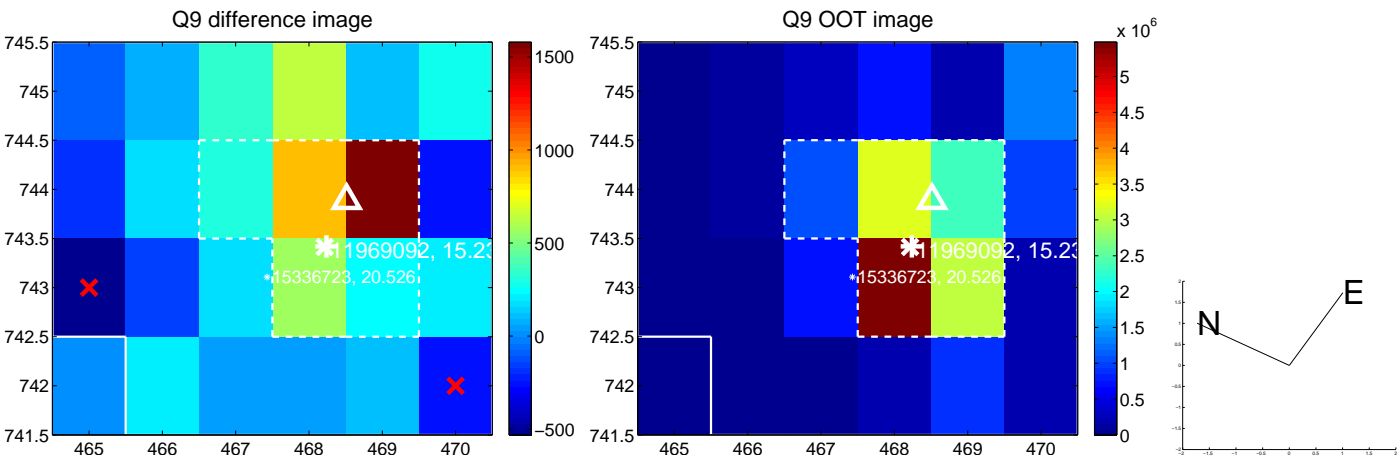


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

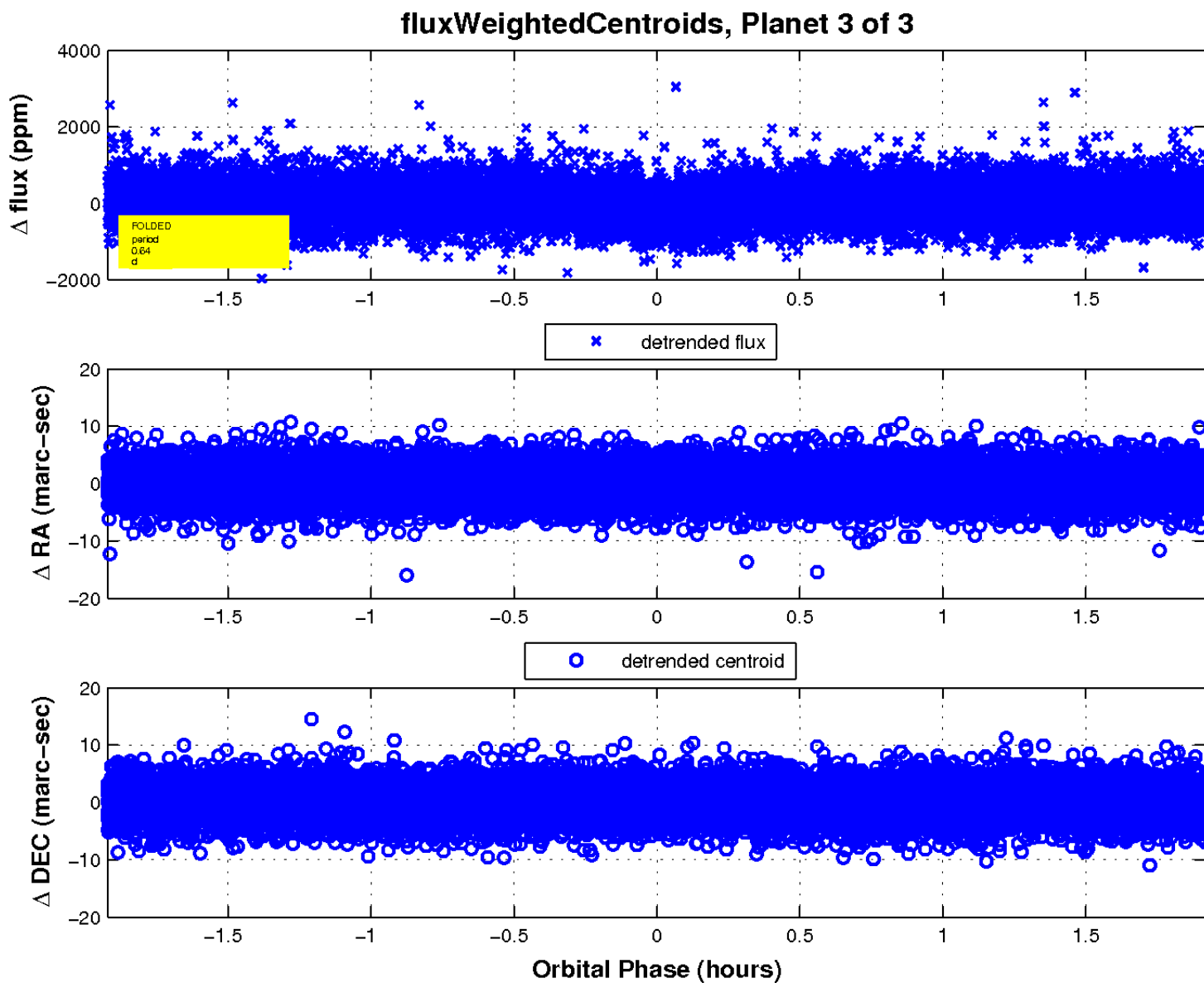
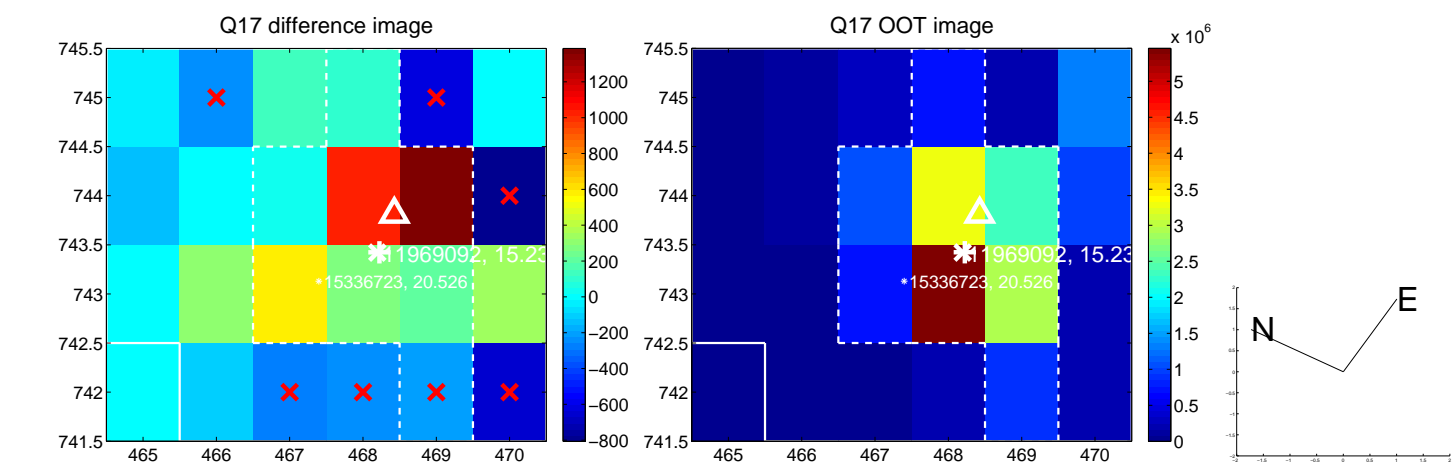
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

