

KIC 007362450

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})
007362450-01	OBS	7585.01	0.566769	131.856753	8.8	4.299	12.2	8.9	1.55	5616	0.46	12219.53
007362450-02	OBS	No	13.472577	132.867444	467.0	2.000	13.9	-1.0	1.55	5616	3.31	178.78
007362450-03	OBS	No	7.216637	136.828099	184.2	0.854	15.7	17.5	1.55	5616	2.17	410.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007362450-01	OBS	FP	0.00	1	0	0	1	LPP_DV—CENT_KIC_POS—EPHEM_MATCH
007362450-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
007362450-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS

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.

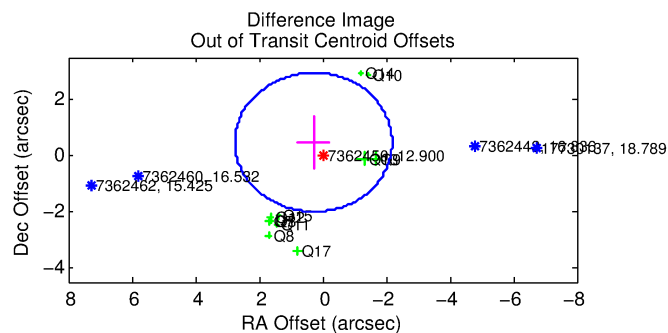
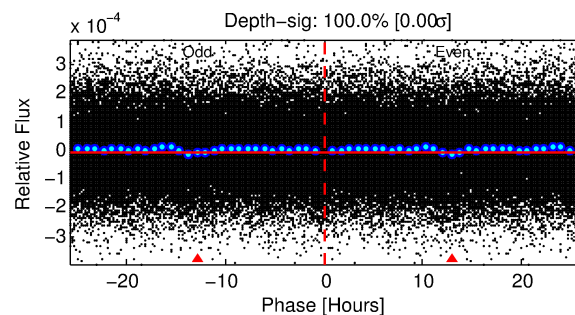
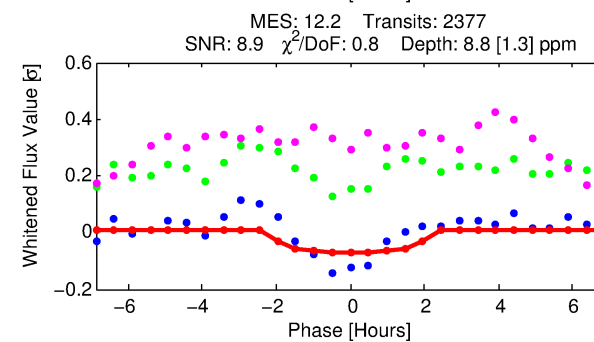
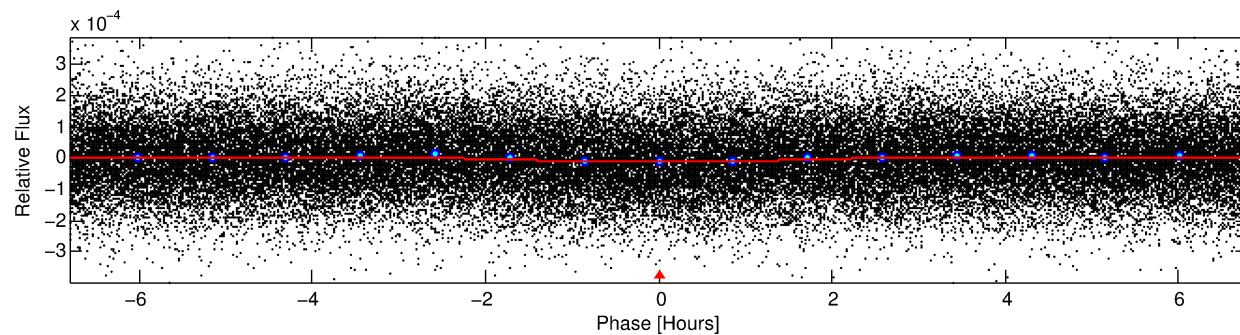
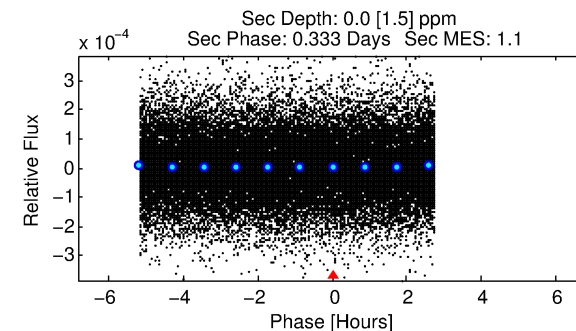
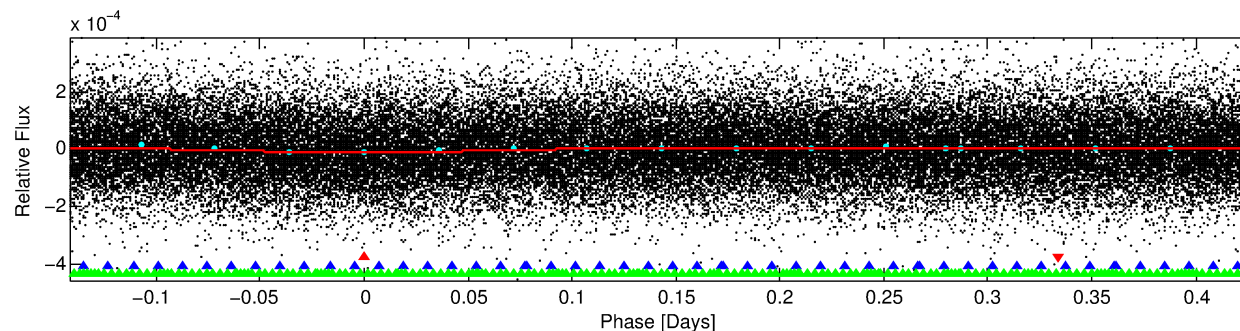
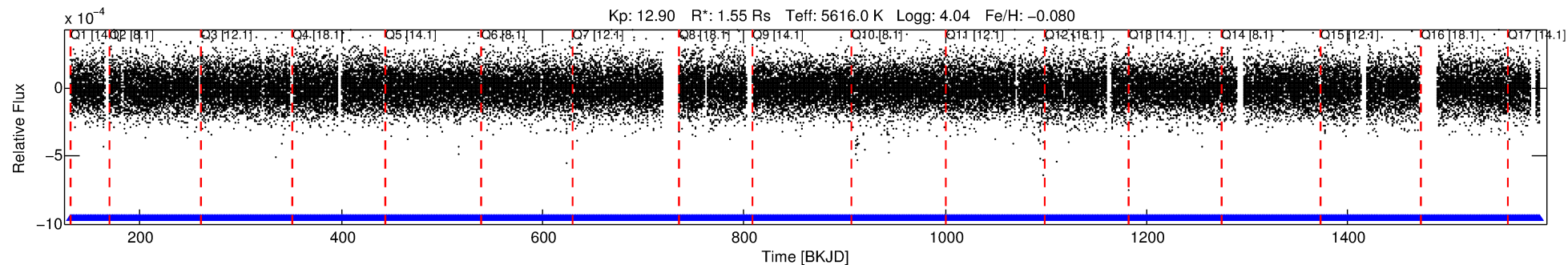
Ephemeris Match Information For 007362450-01

TCE (1)	KIC	Parent (2)	Parent KIC	P ₁ :P ₂	Dist (μ)	Δ Row	Δ Col	m ₂	m ₁	D ₂ /D ₁	Mechanism	Flag	σ_P	σ_T
007362450-01	7362450	RR-Lyr-pri	7198959	1:1	991.7	-1	249	7.86	12.90	69255.00	Direct-PRF	0	4.34	22.67

Notes: P₁:P₂ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m₂ and m₁ are the magnitudes of the parent and child. D₂/D₁ is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

KIC: 7362450 Candidate: 1 of 3 Period: 0.567 d
KOI: K07585.01 Corr: 0.862



DV Fit Results:

Period = 0.56677 [0.00001] d
Epoch = 131.8568 [0.0052] BKJD
Rp/R* = 0.0027 [0.0030]
a/R* = 1.17 [1.49]
b = 0.37 [11.07]
Seff = 12219.53 [8975.03]
Teff = 2681 [492] K
Rp = 0.46 [0.54] Re
a = 0.0132 [0.0058] AU
Ag = 0.02 [0.69] [-1.42σ]
Teffp = 1570 [13173] K [-0.08σ]

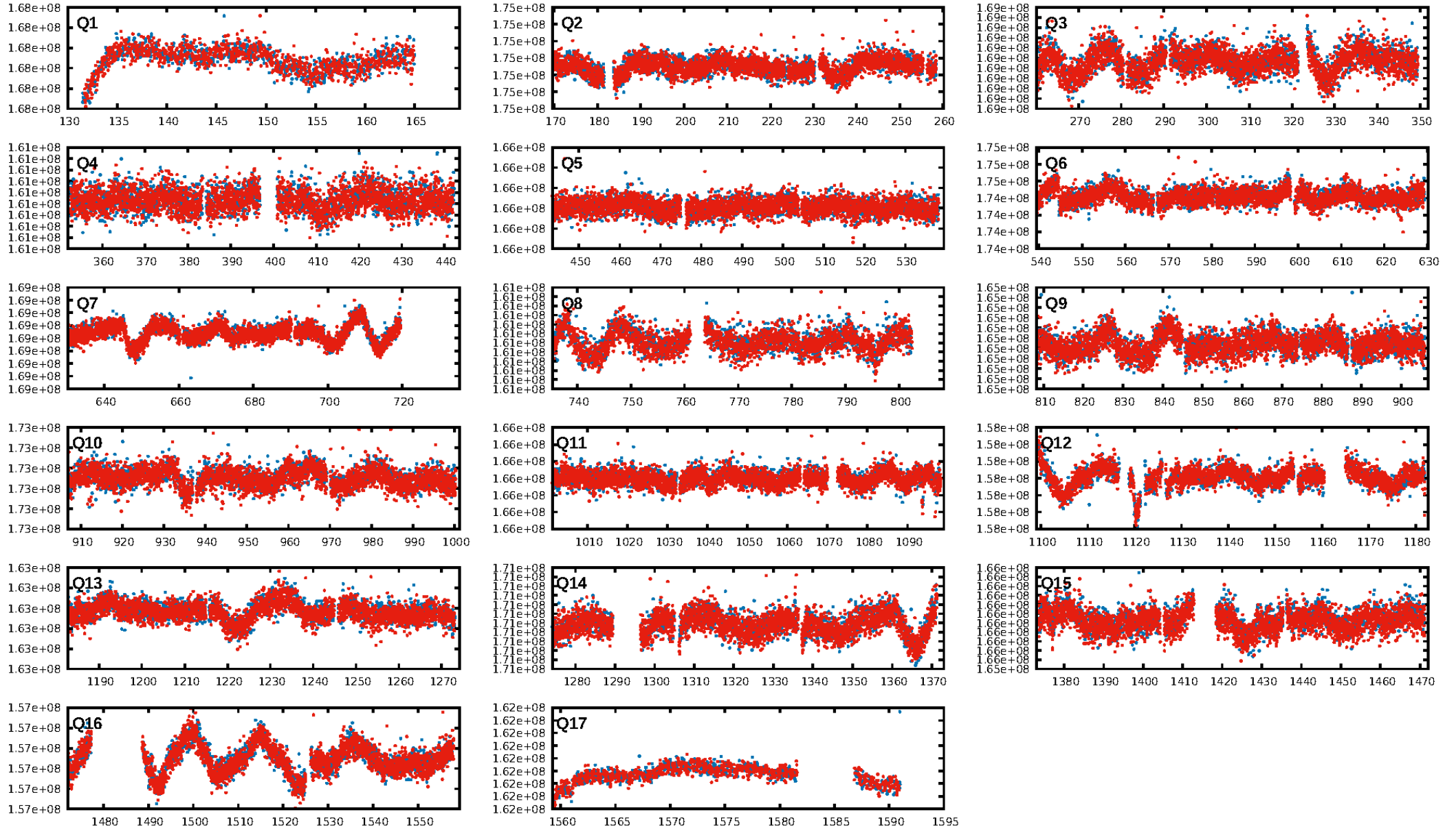
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [36.42σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 9.74e-06
RollingBand-fgt: 1.00 [2270/2270]
GhostDiagnostic-chr: 0.6543
Centroid-sig: 0.0%
Centroid-so: 5.265 arcsec [4.31σ]
OotOffset-rm: 0.554 arcsec [0.67σ]
KicOffset-rm: 0.776 arcsec [0.85σ]
OotOffset-st: 2/4/2/3 [11]
KicOffset-st: 2/4/2/3 [11]
DiffImageQuality-fgm: 0.82 [9/11]
DiffImageOverlap-fno: 1.00 [17/17]

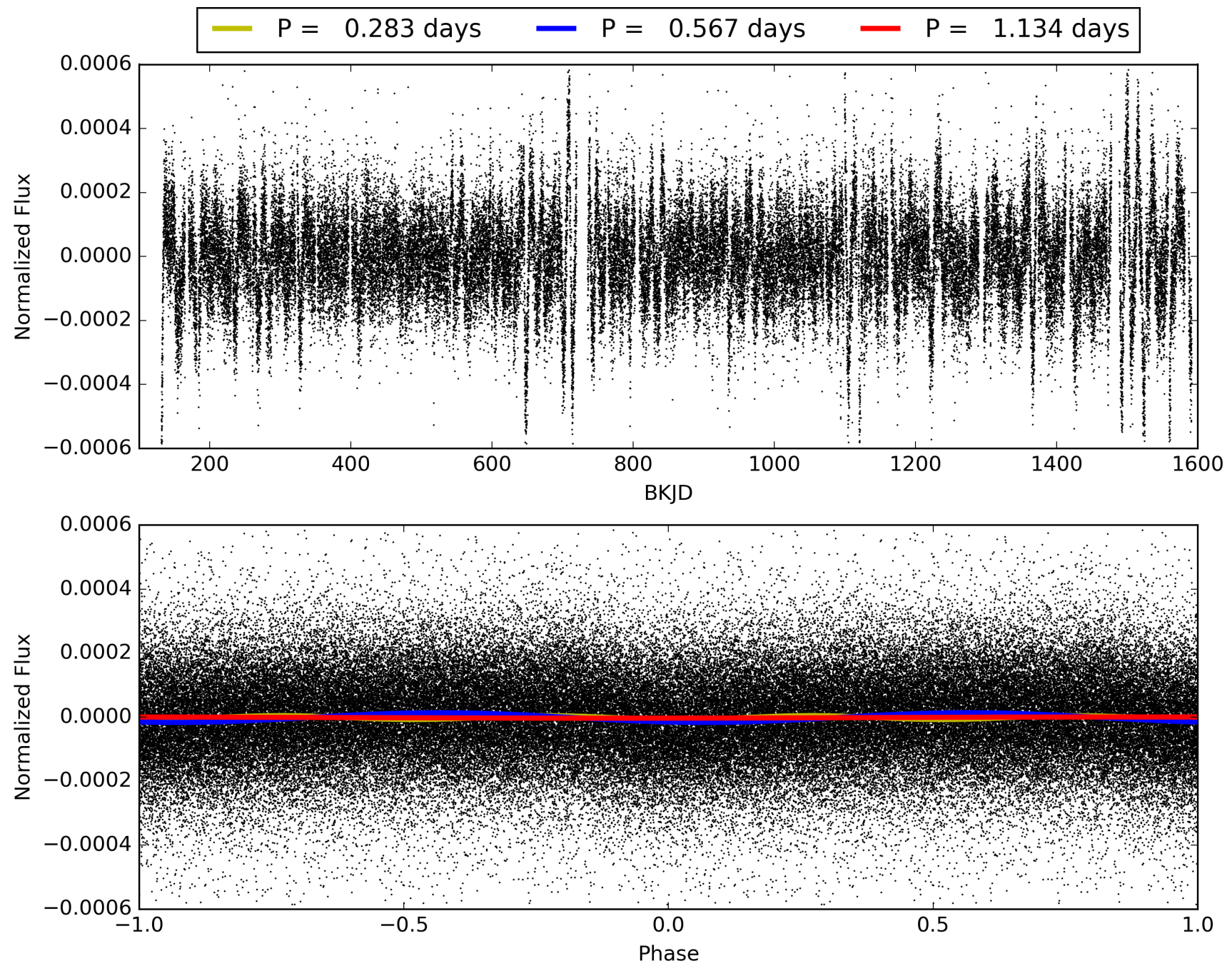
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 02:16:59 Z

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

TCE 007362450-01, PDC Light Curves

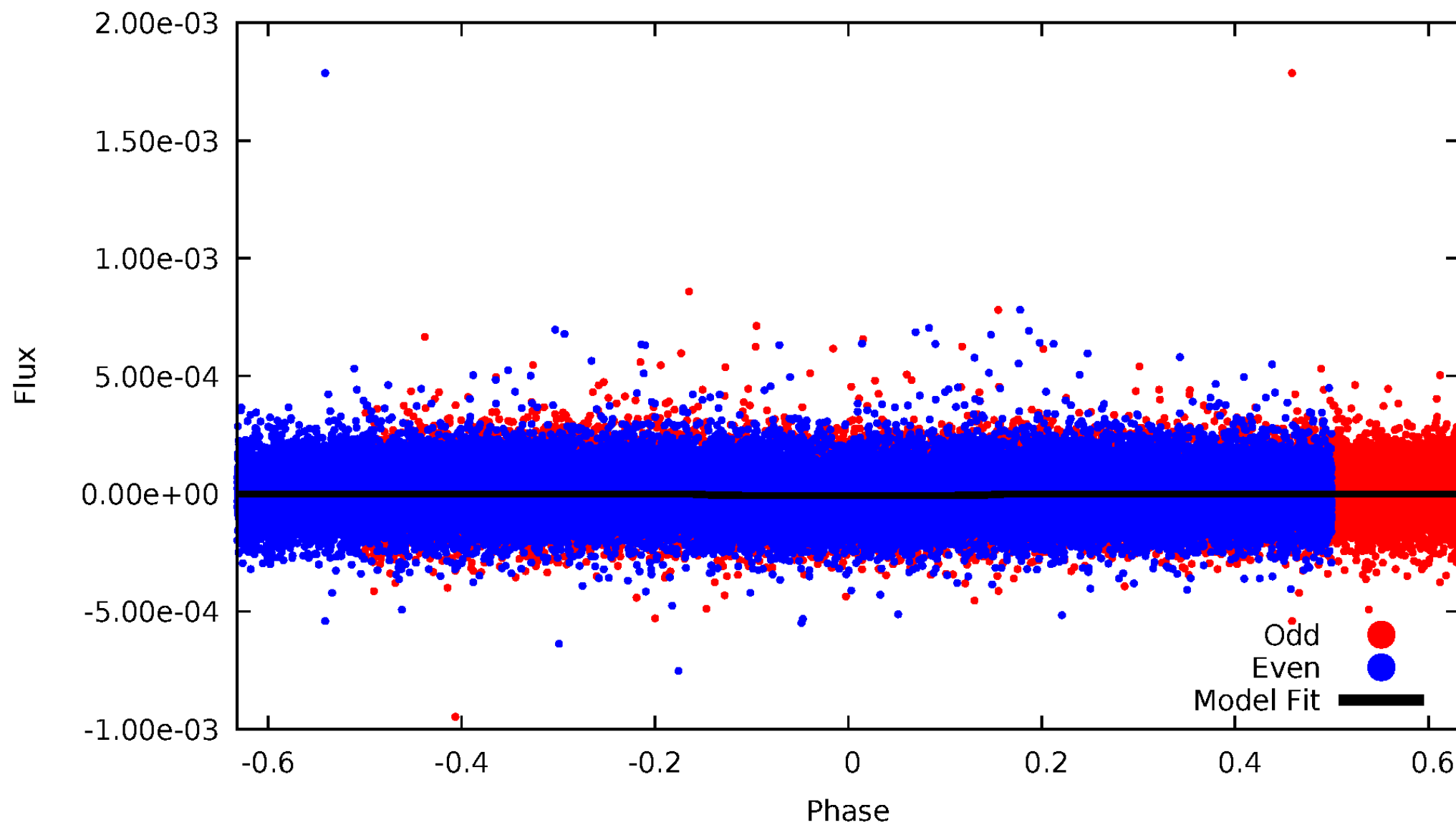


TCE 007362450-01



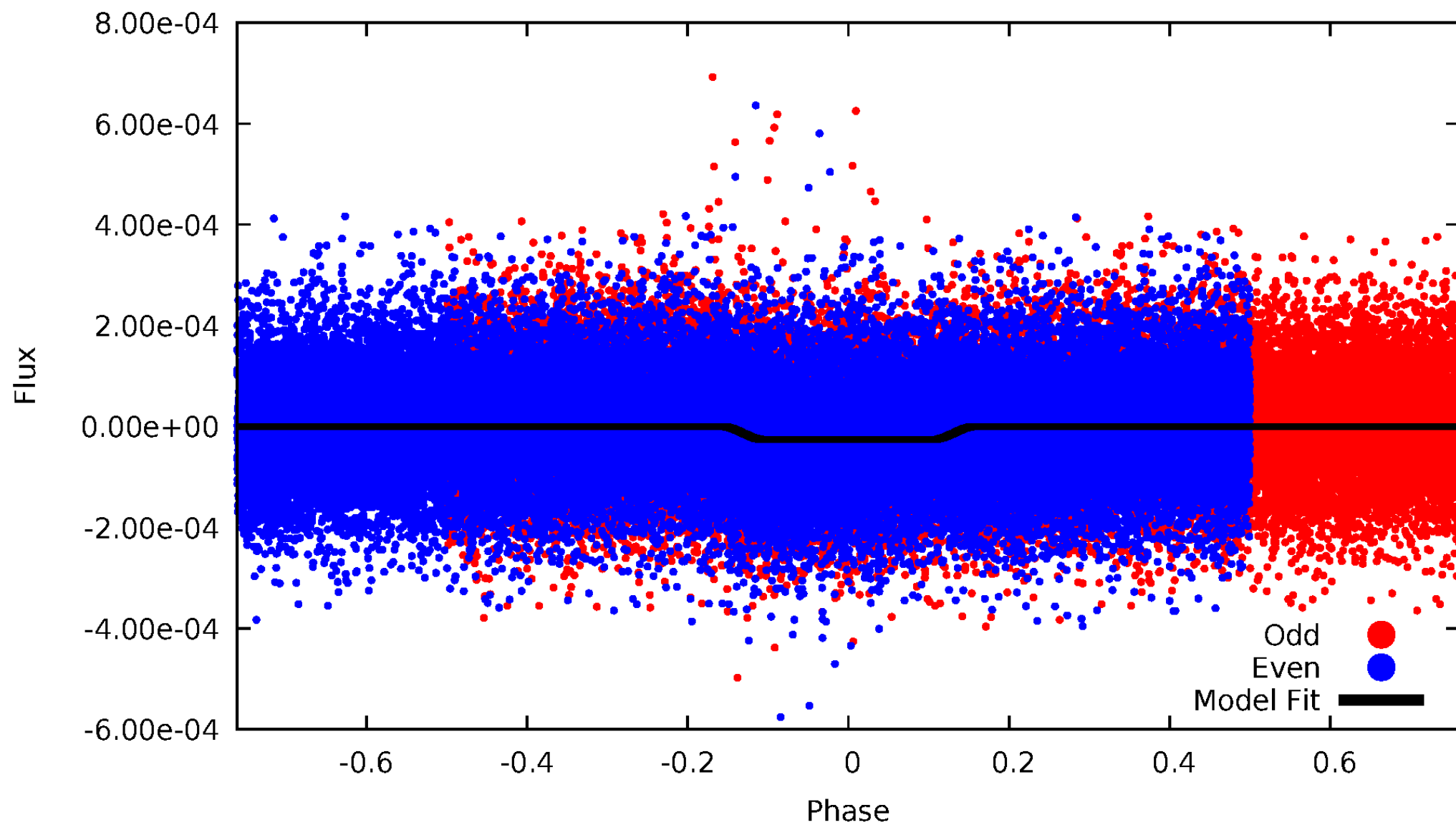
DV Odd/Even

TCE 007362450-01



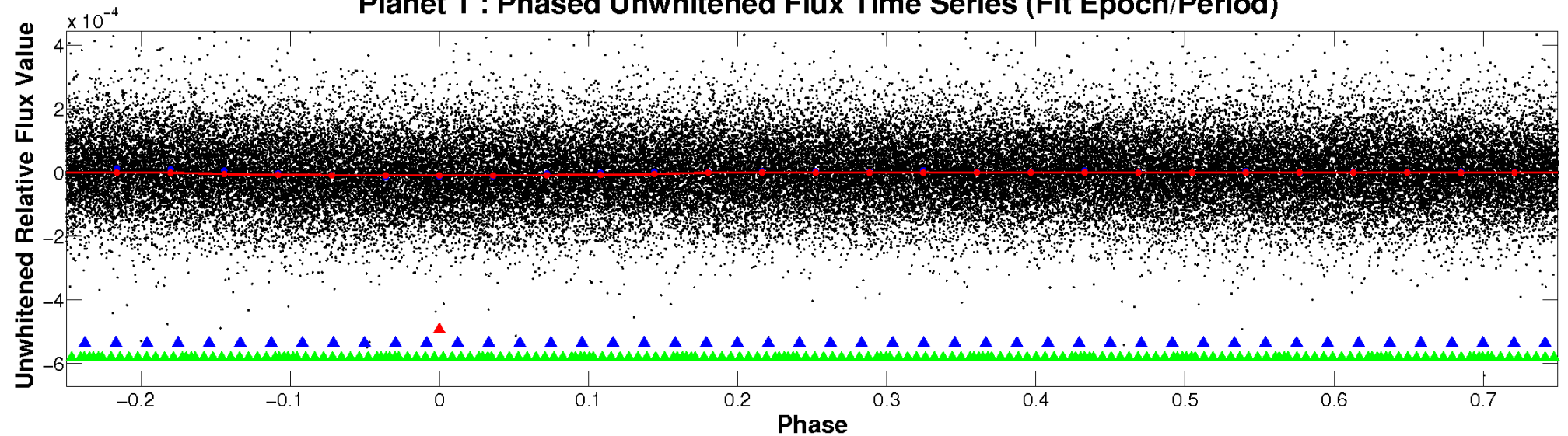
ALT Odd/Even

TCE 007362450-01

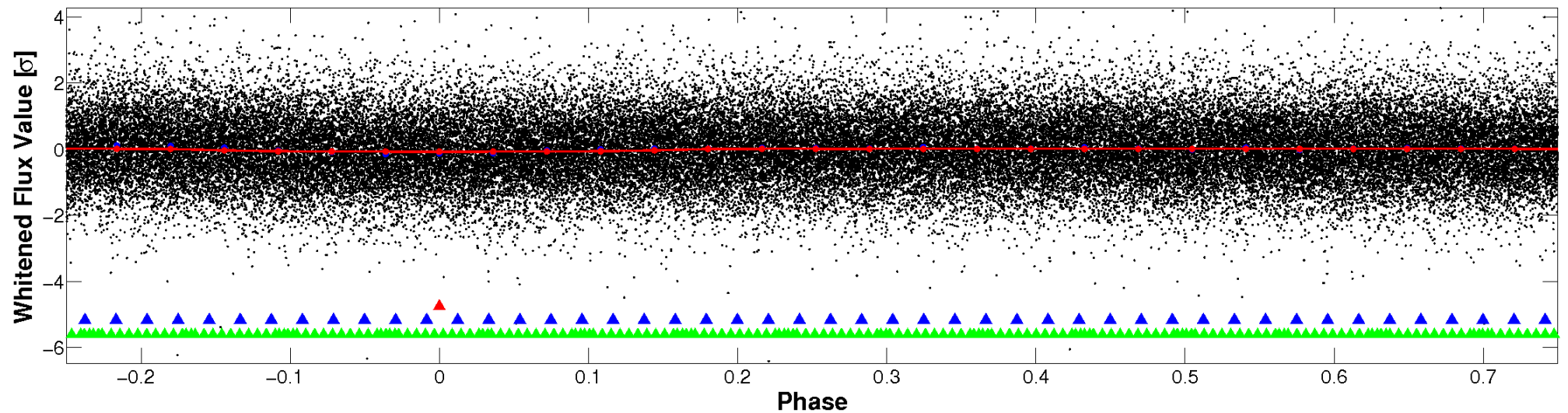


Non-Whitened Vs. Whitened Light Curve

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

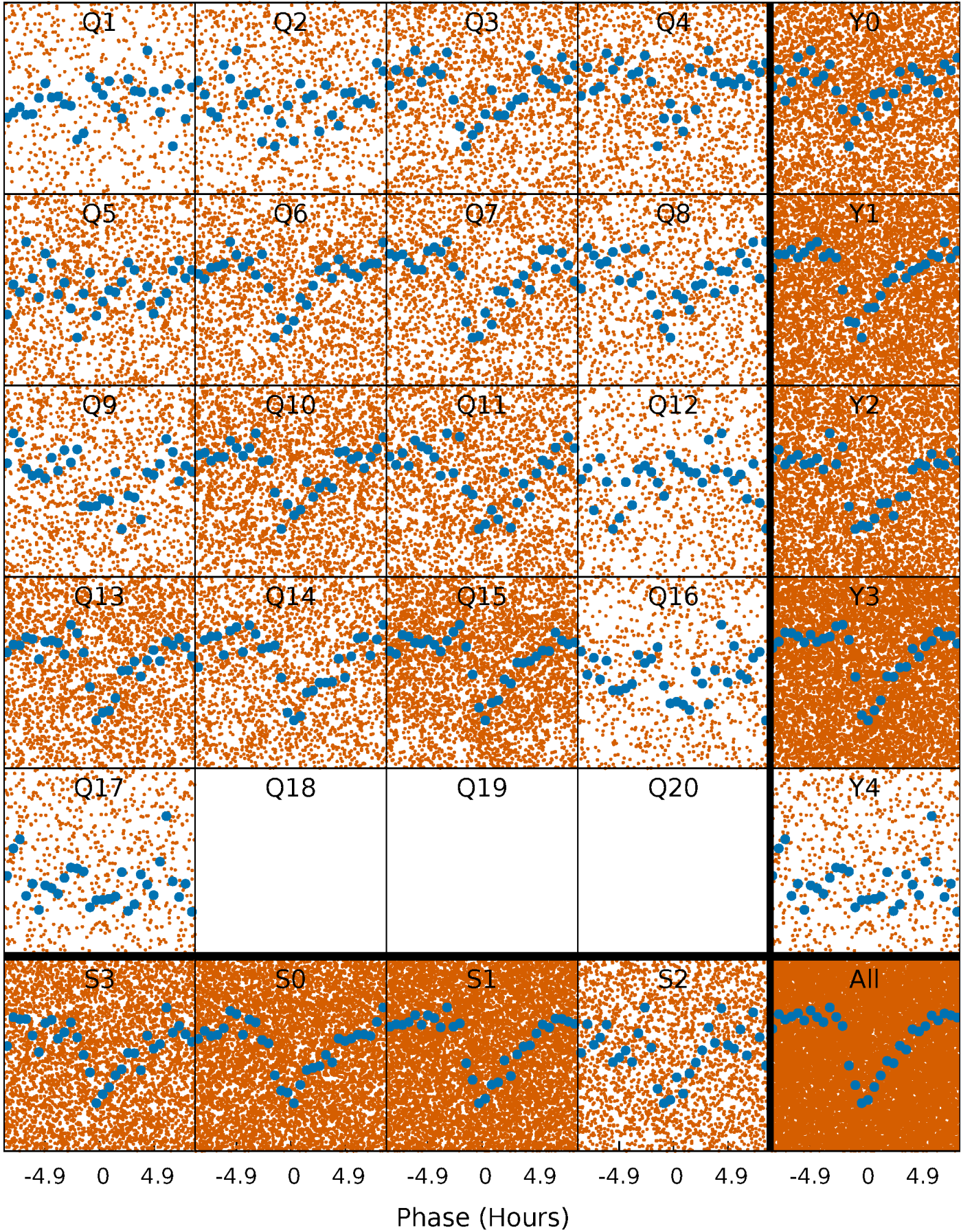


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



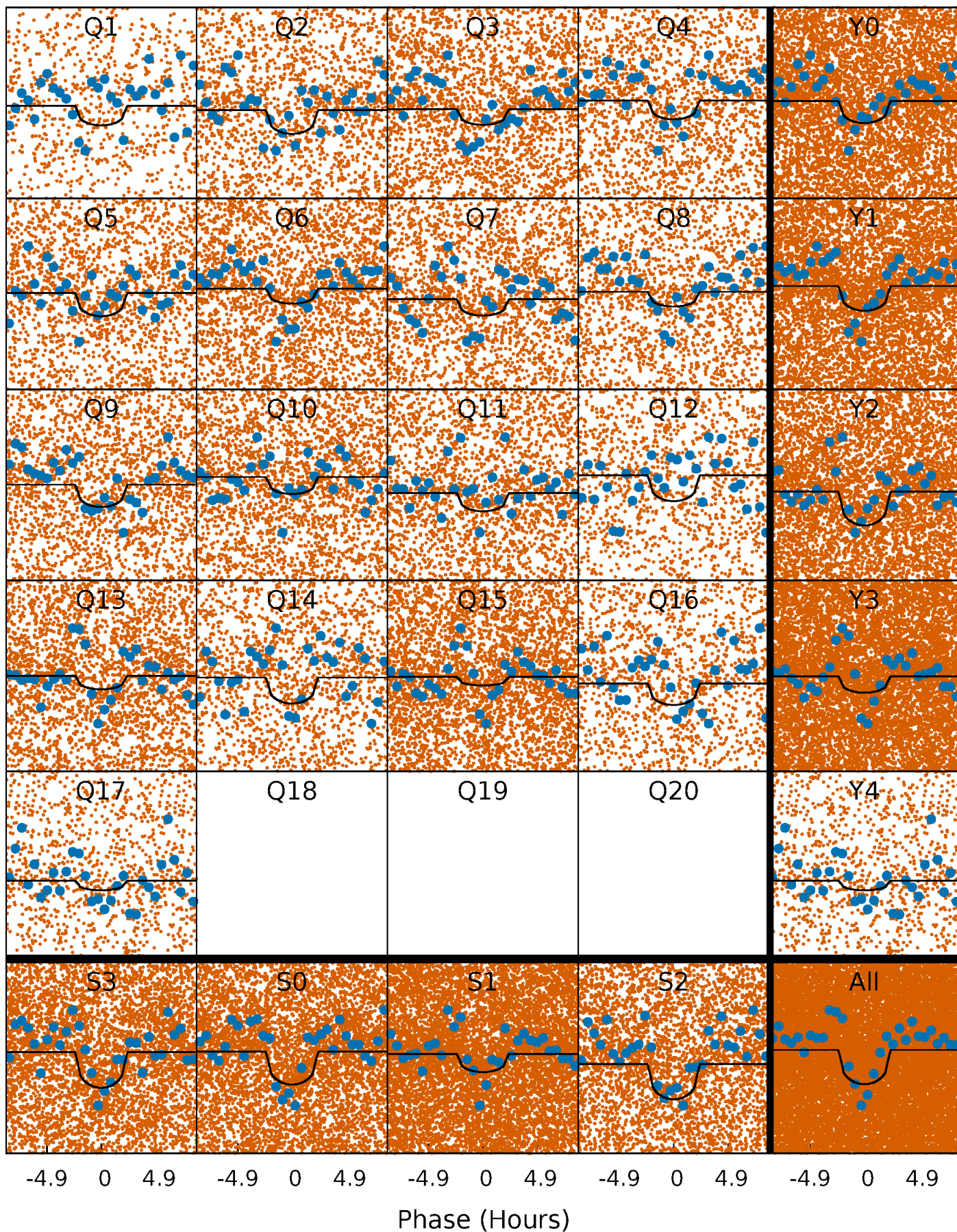
PDC Quarter-Phased Transit Curves

TCE 007362450-01 P= 0.566769 Days $T_0=131.856753$ (BKJD)



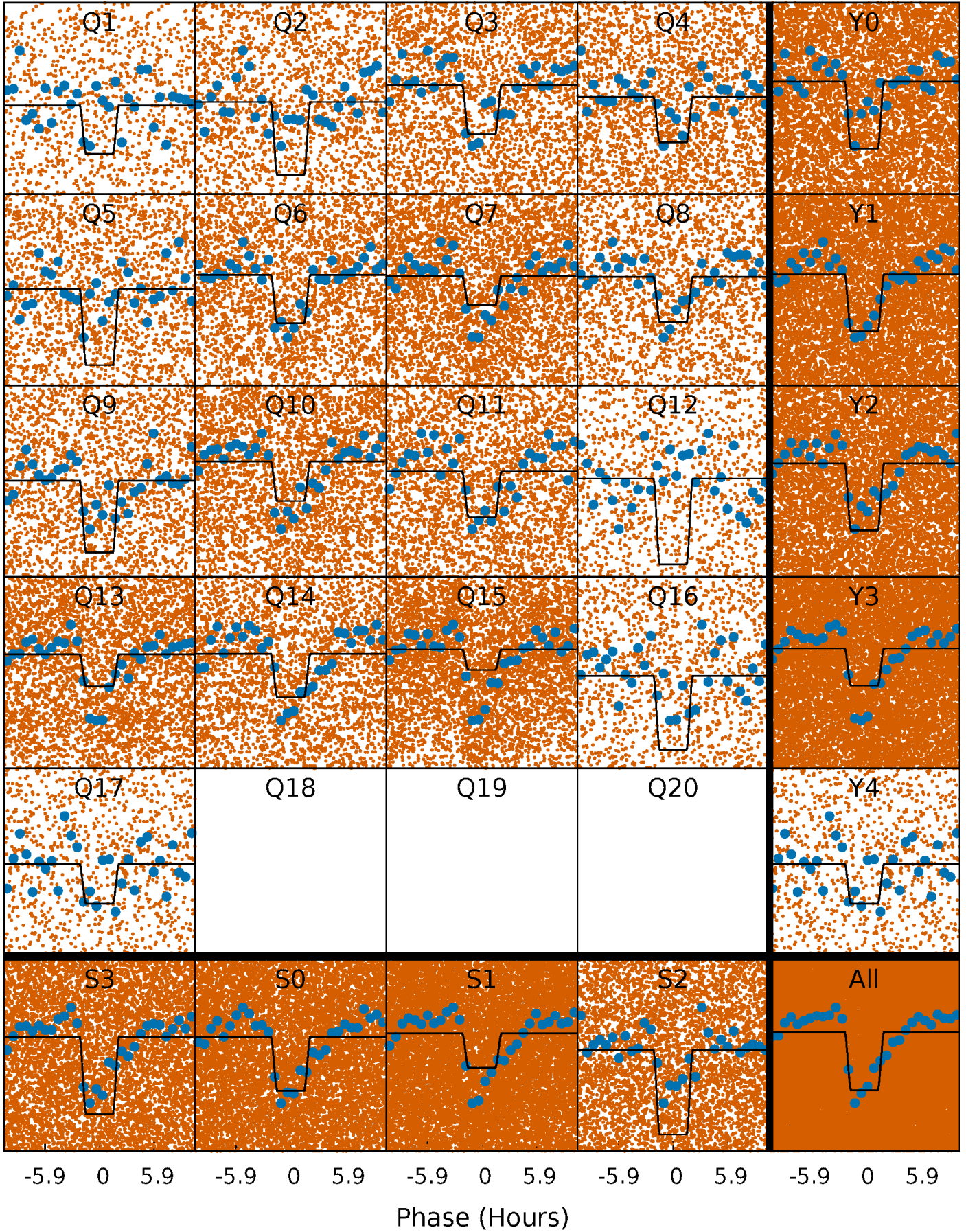
DV Quarter-Phased Transit Curves

TCE 007362450-01 P= 0.566769 Days $T_0=131.856753$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

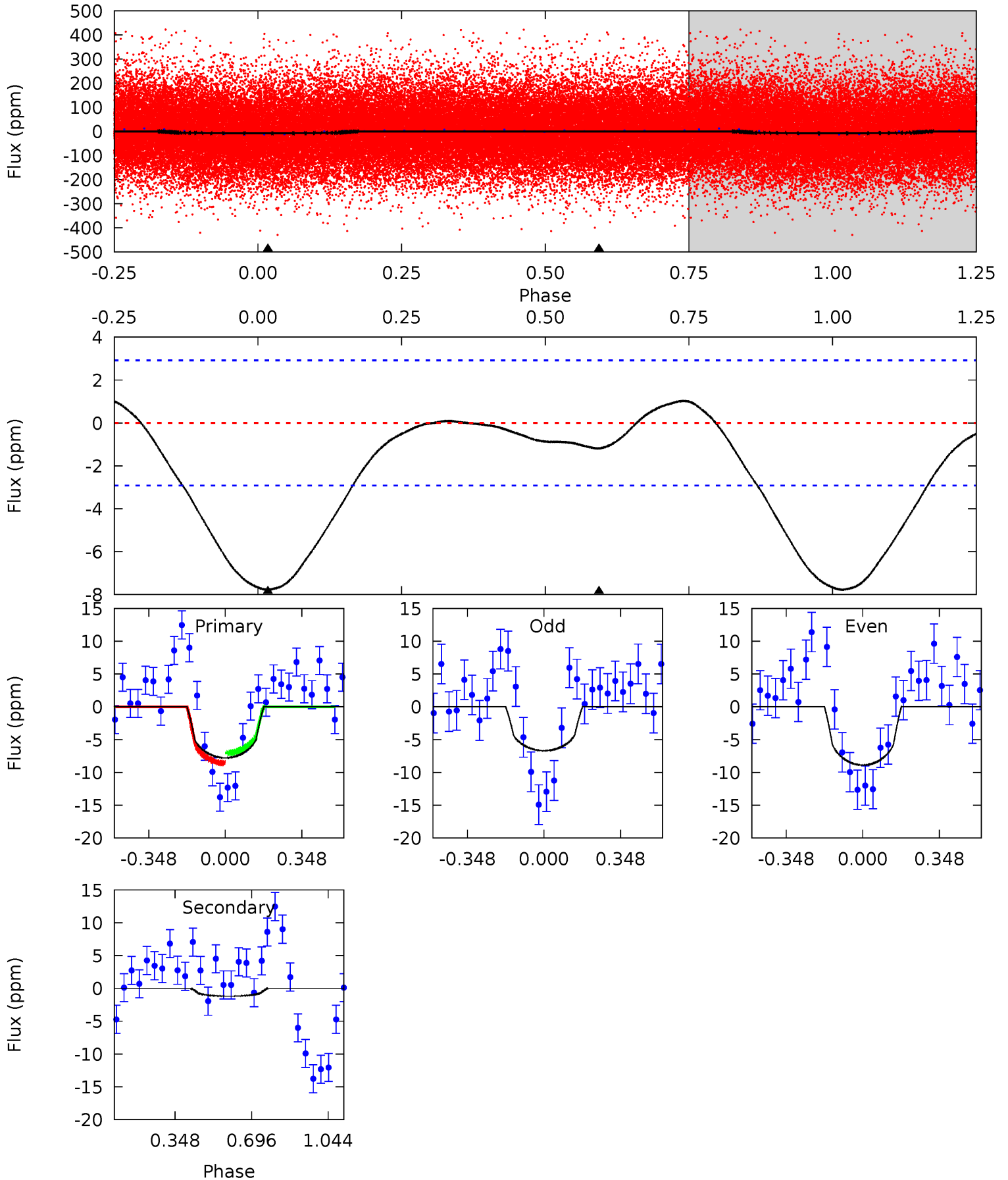
TCE 007362450-01 P= 0.566795 Days $T_0=131.834691$ (BKJD)



DV Model-Shift Uniqueness Test

007362450-01, P = 0.566769 Days, E = 131.289984 Days

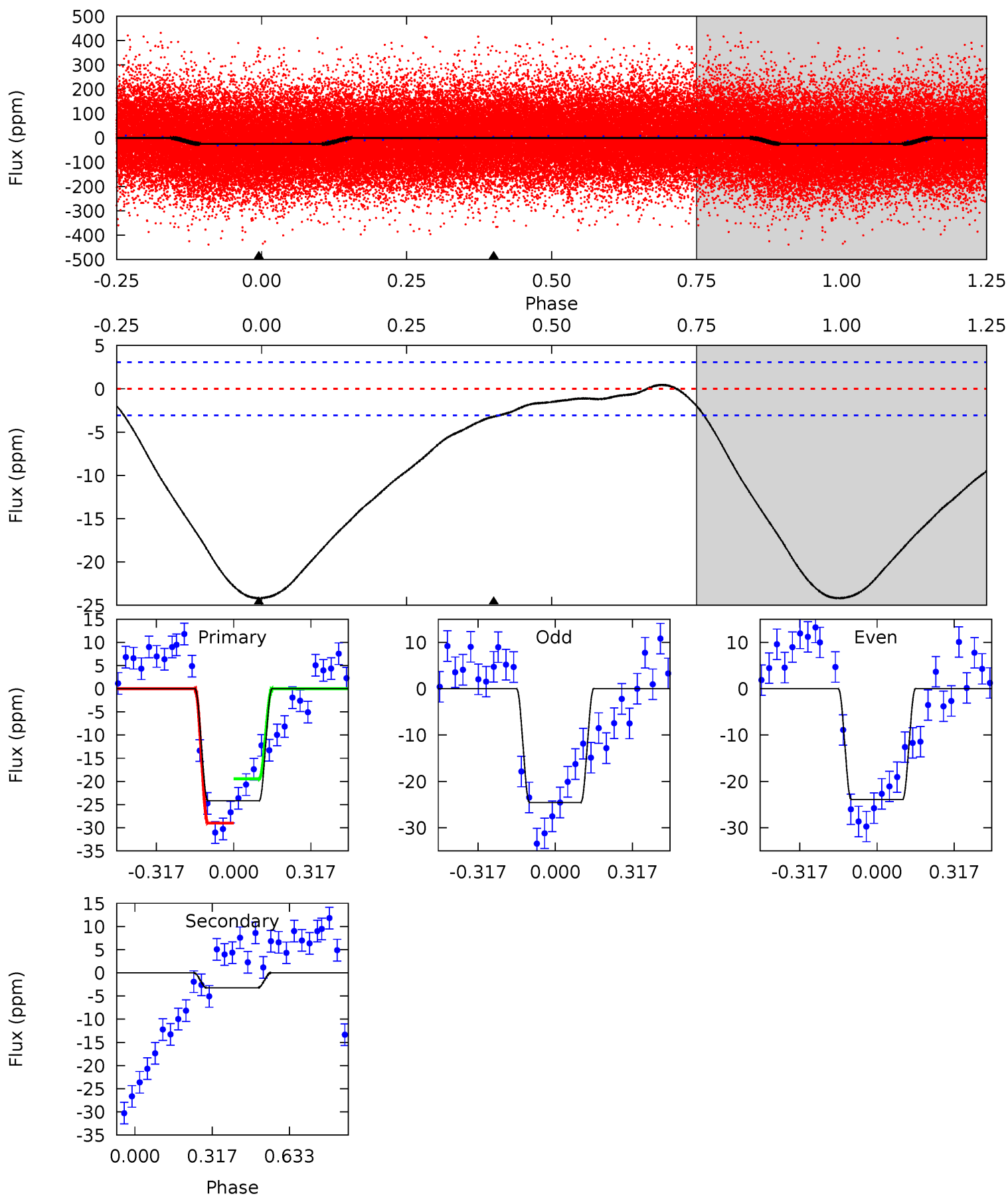
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.5	1.76	0	0	4.30	0.94	0.23	11.5	11.5	1.76	1.76	1.61	1.00	0.12	1.13



Alt Model-Shift Uniqueness Test

007362450-01, P = 0.566795 Days, E = 131.267896 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
34.1	4.55	0	0	4.32	1.00	0.85	34.1	34.1	4.55	4.55	0.42	1.00	0.02	6.48



Stellar Parameters For KIC 007362450

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5616^{+155}_{-141}	$4.040^{+0.435}_{-0.145}$	$-0.080^{+0.300}_{-0.250}$	$1.547^{+0.407}_{-0.662}$	$0.958^{+0.114}_{-0.114}$	$0.364^{+1.255}_{-0.176}$
	+3%/-3%	+11%/-4%	+375%/-312%	+26%/-43%	+12%/-12%	+344%/-48%
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 007362450-01 / KOI 7585.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1 ± 1	$0.54^{+0.44}_{-0.36}$	3677^{+276}_{-426}	2380^{+2493}_{-5760}	$0.324^{+2.425}_{-0.254}$
Alt.	-3 ± 1	$0.78^{+0.57}_{-0.43}$	3673^{+295}_{-439}	3216^{+1582}_{-6339}	$0.517^{+2.002}_{-0.353}$

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

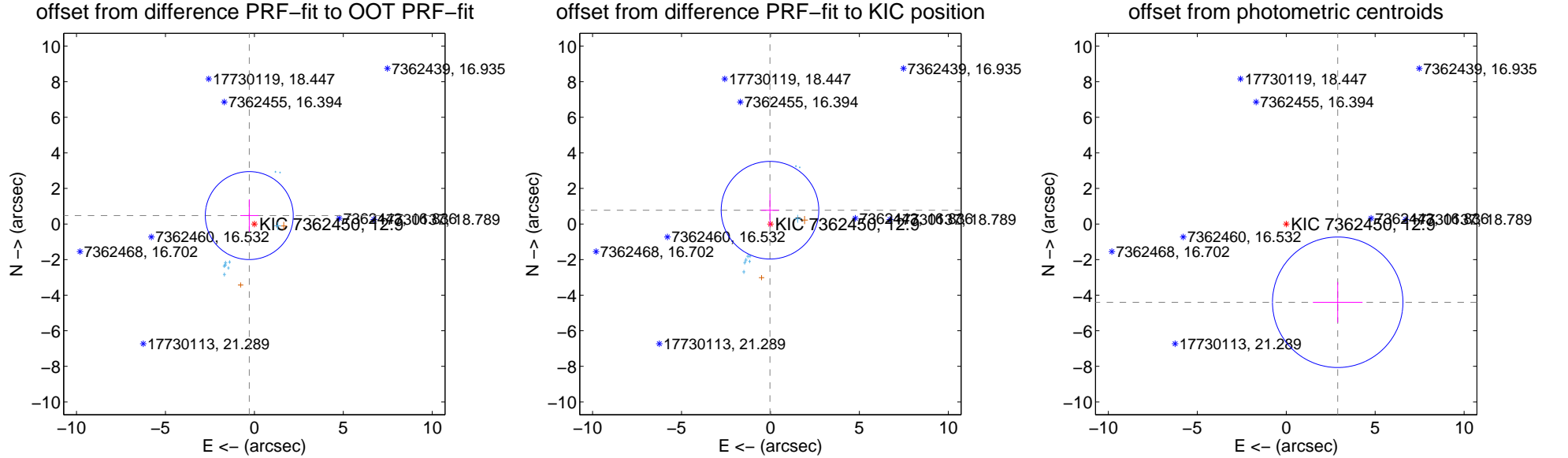
DV Centroid Data

Supplemental centroid analysis for 007362450-01. Kepler magnitude: 12.90. Transit SNR 8.87

There are 9 quarters with good PRF difference image offsets

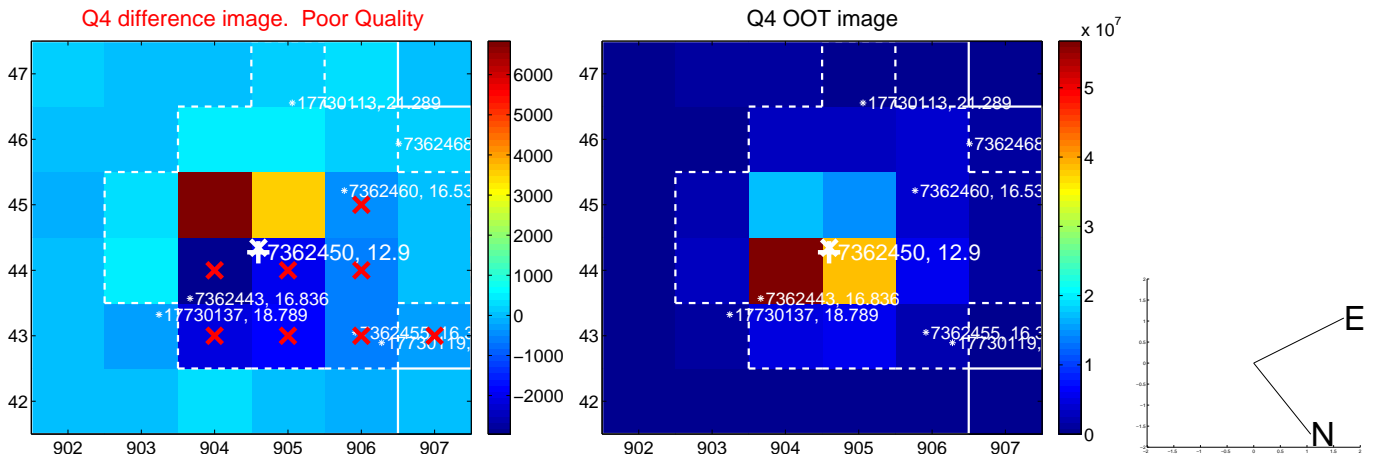
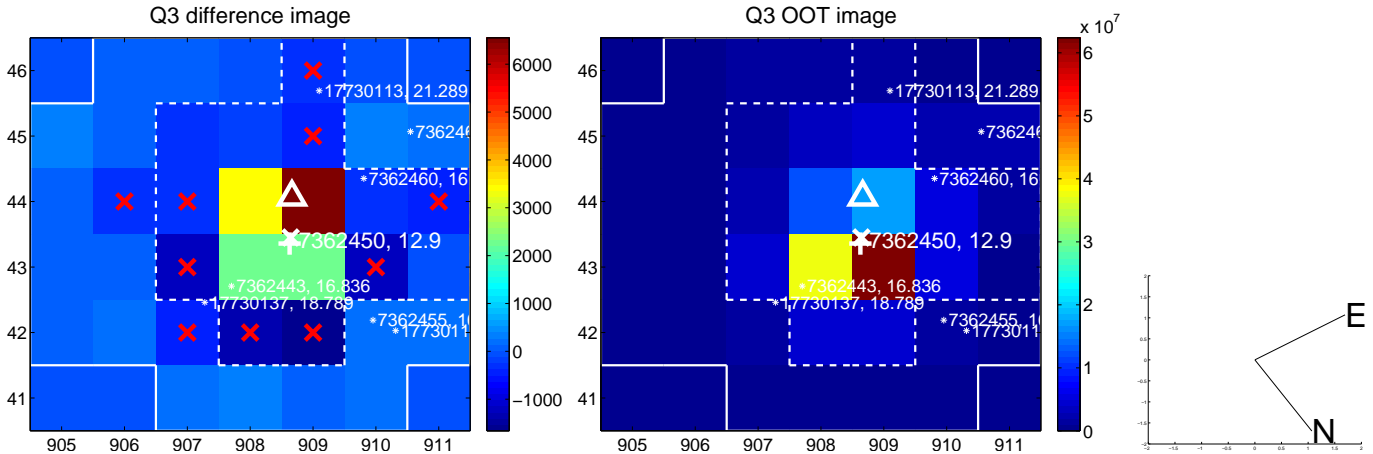
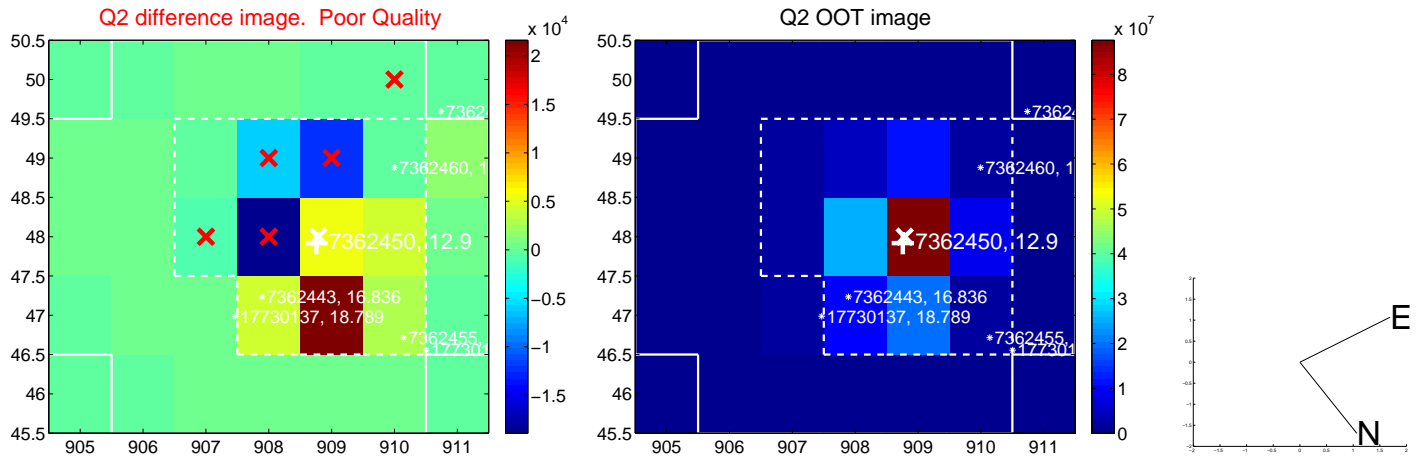
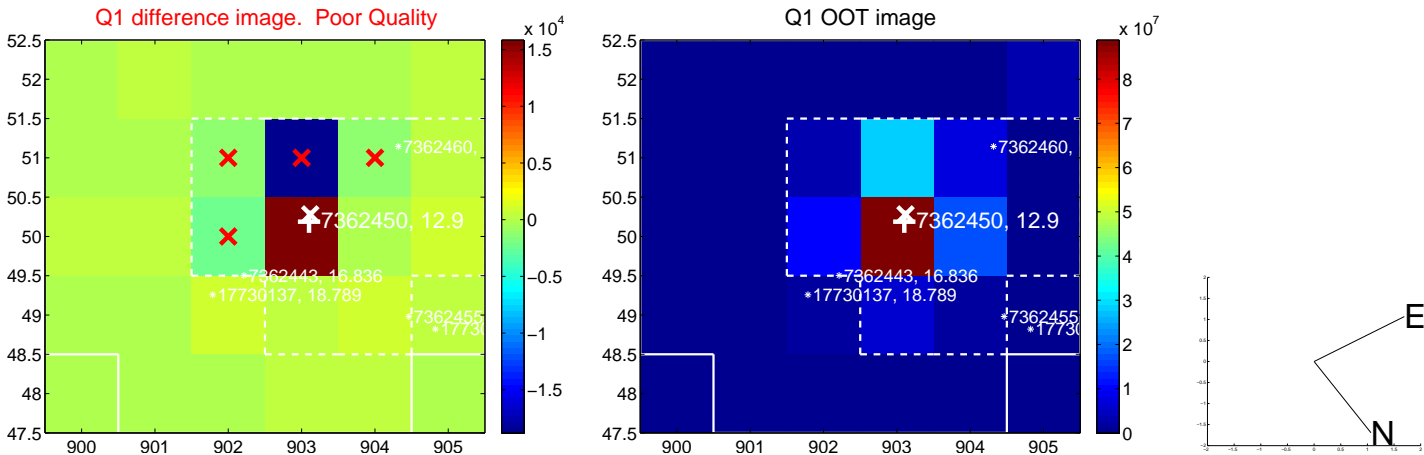
The direct PRF centroid is offset from the target star catalog position by about 0.49 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.554 ± 0.824	0.67	0.287 ± 0.507	0.474 ± 0.913
PRF-fit source offset from KIC position	0.776 ± 0.915	0.85	0.026 ± 0.499	0.776 ± 0.915
photometric centroid source offset	5.27 ± 1.22	4.31	-2.89 ± 1.39	-4.40 ± 1.14

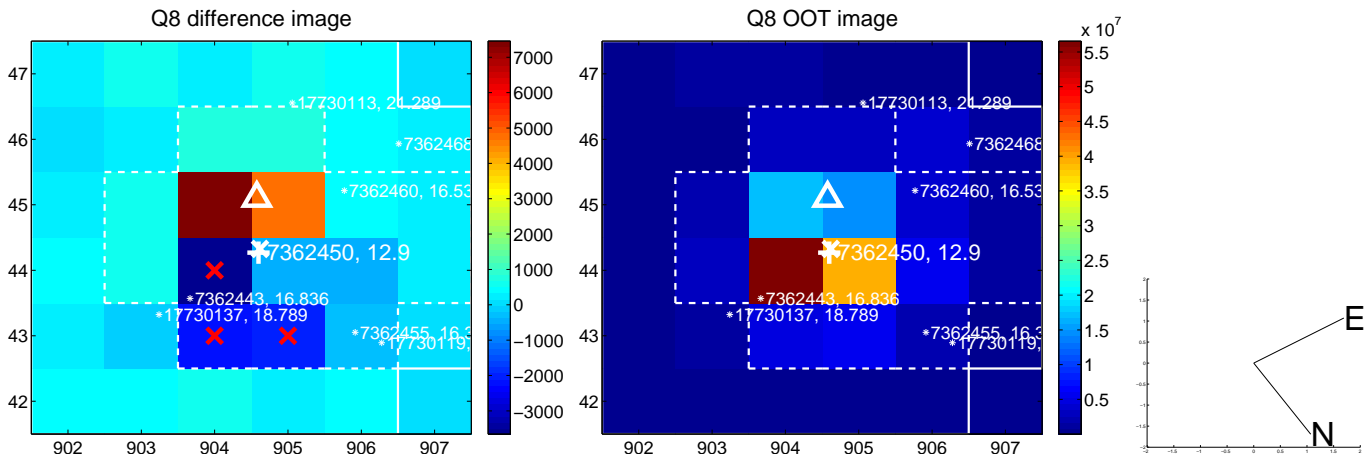
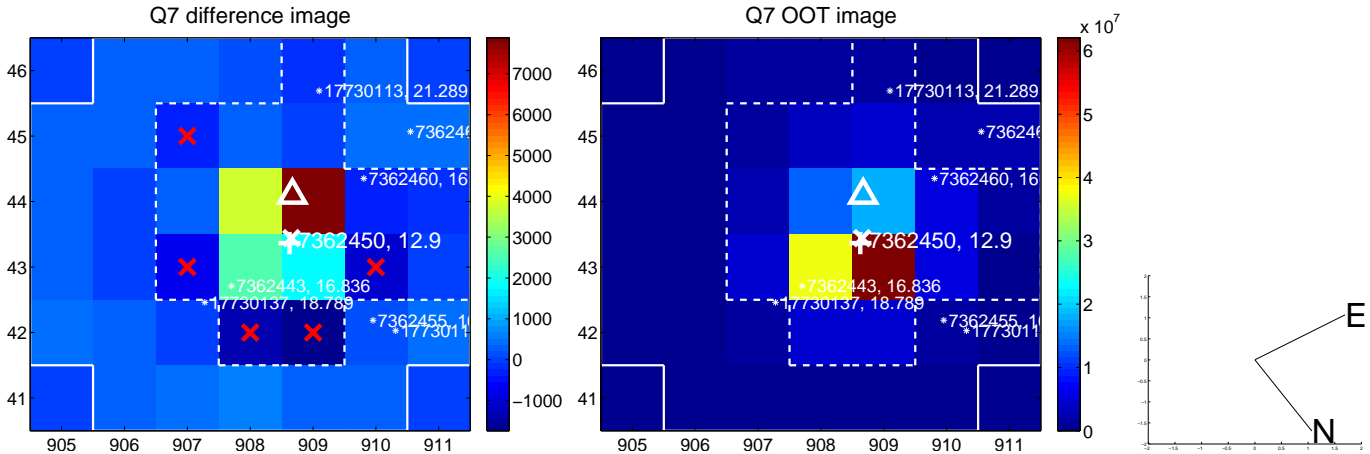
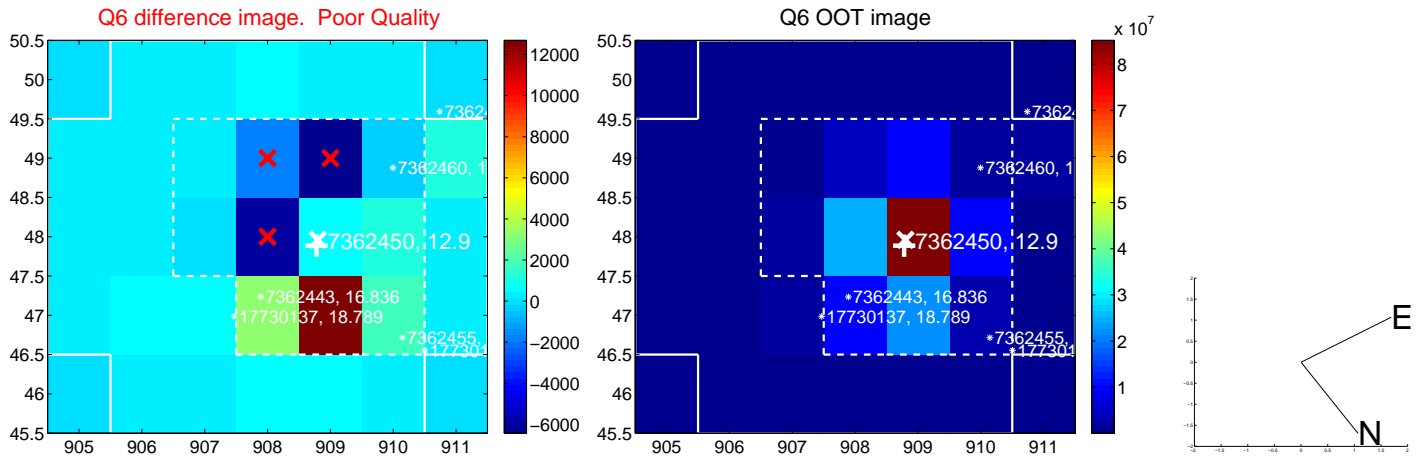
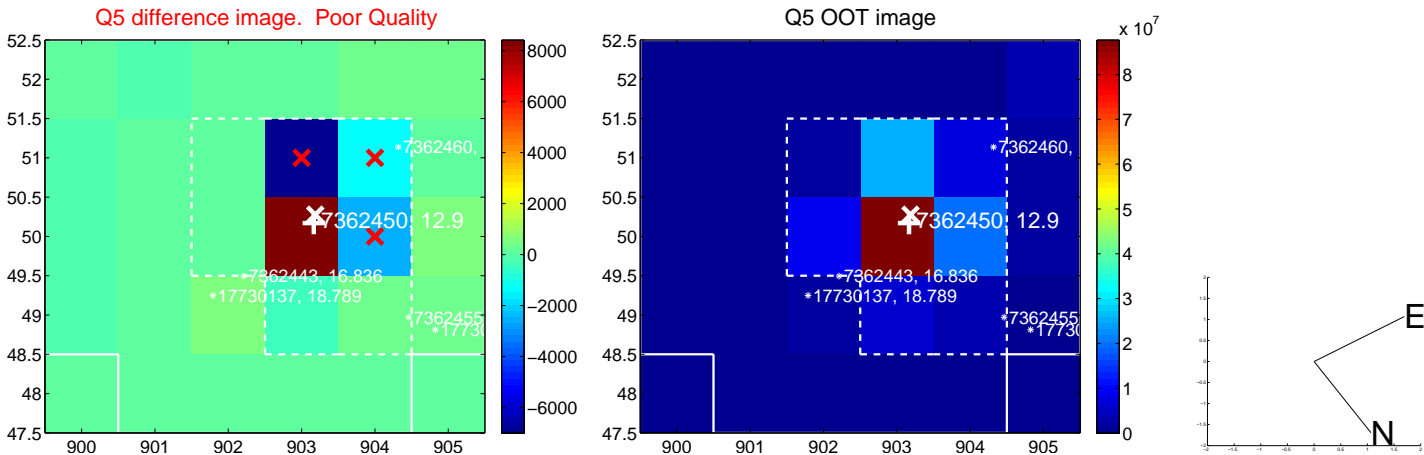


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

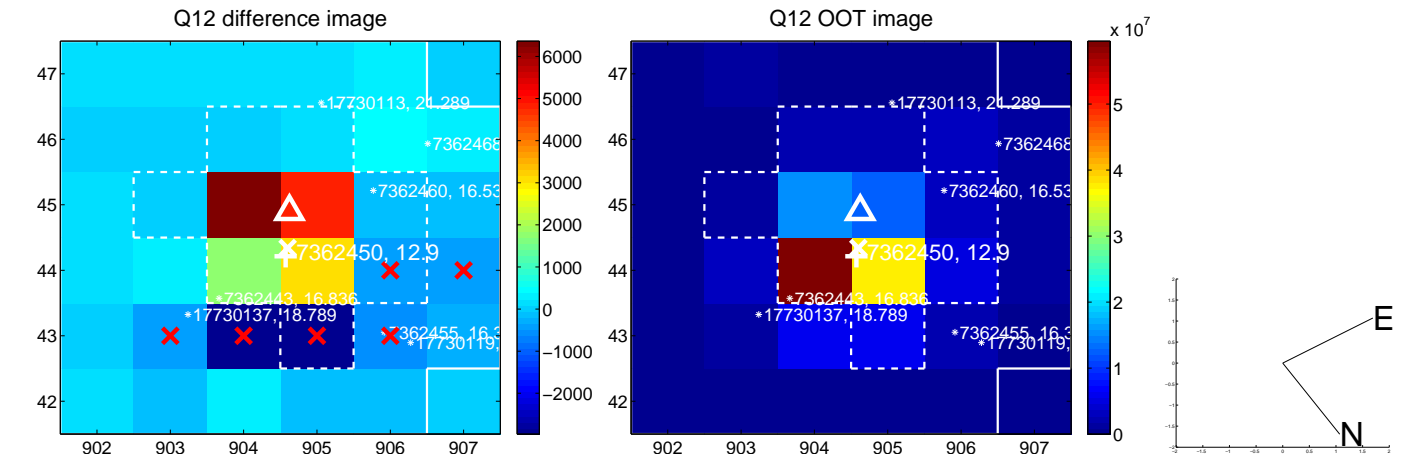
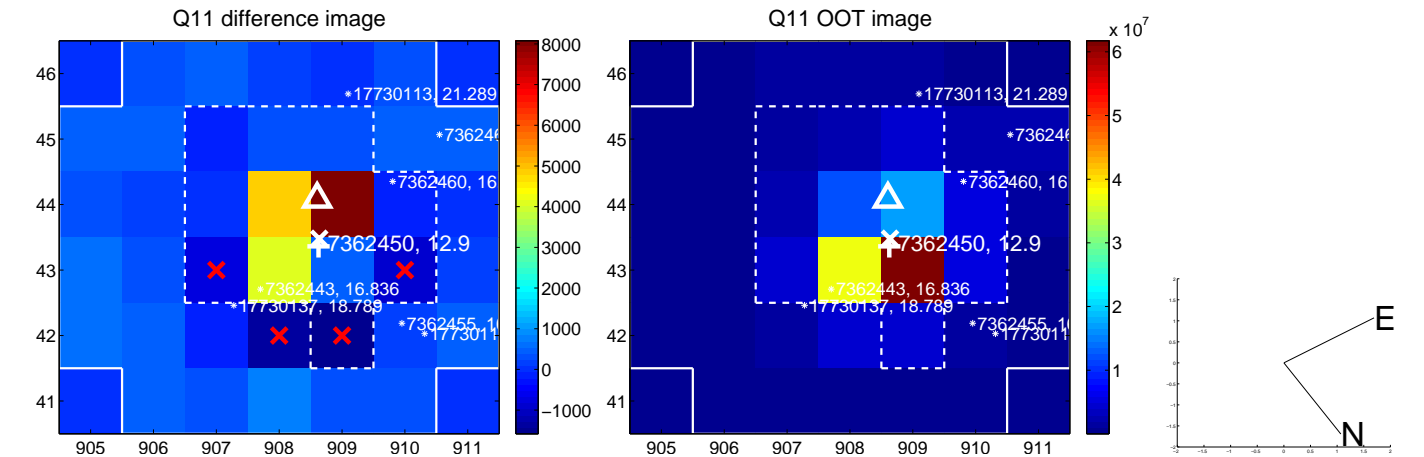
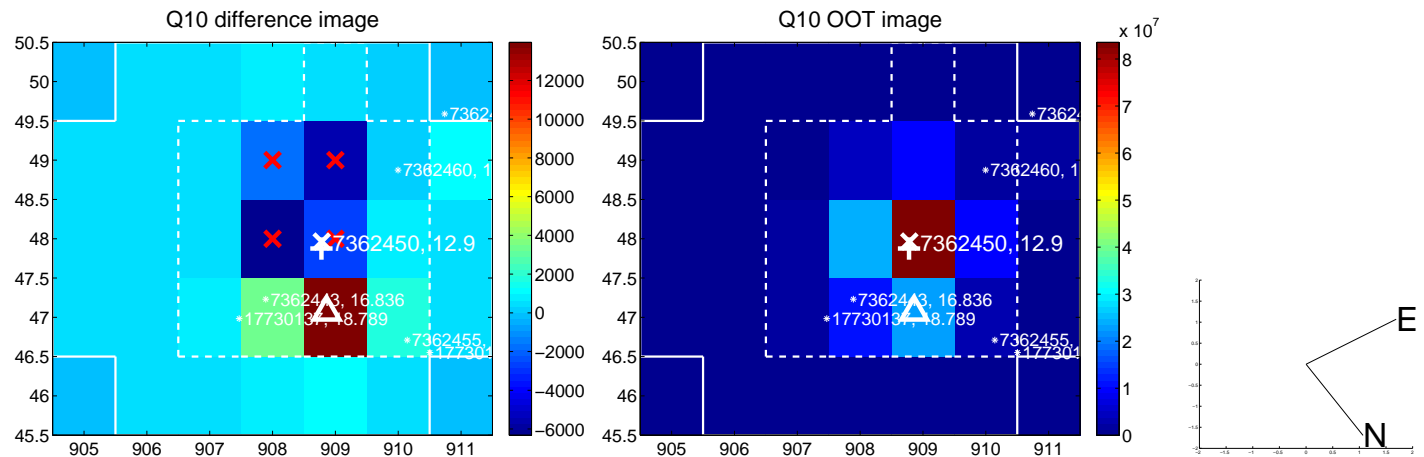
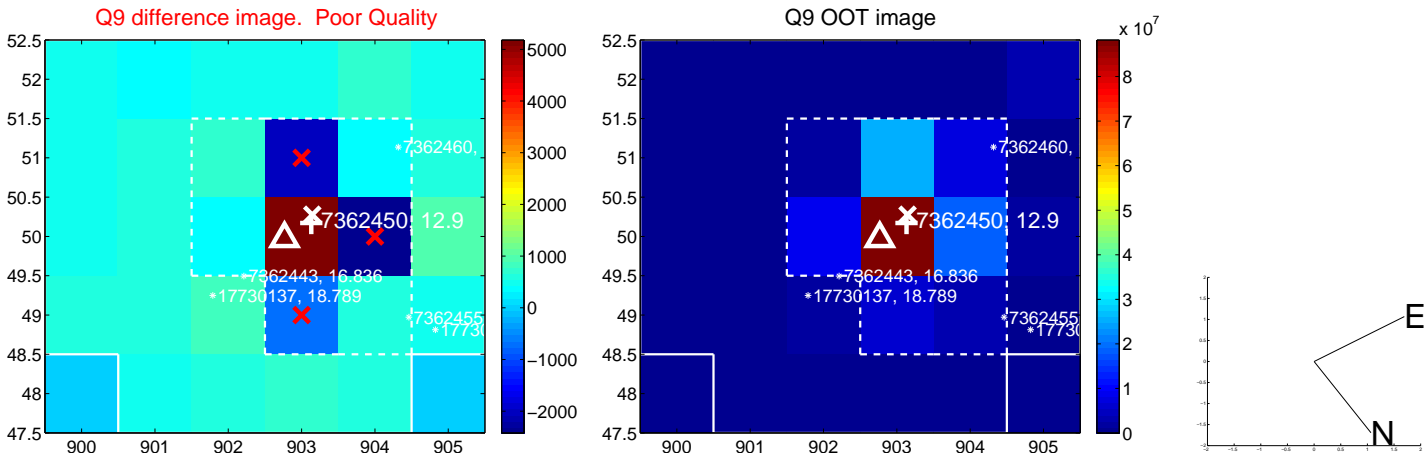
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



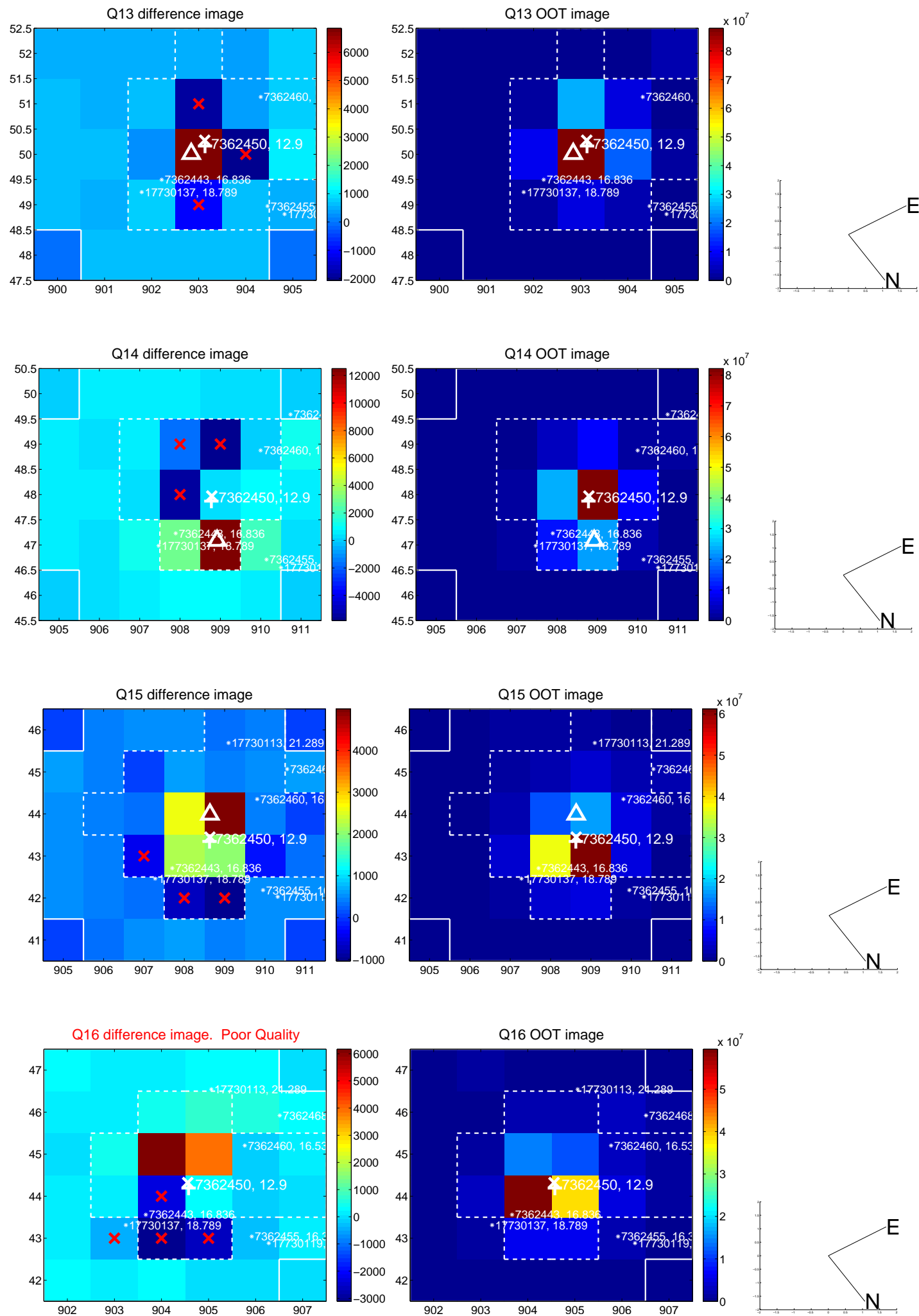
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



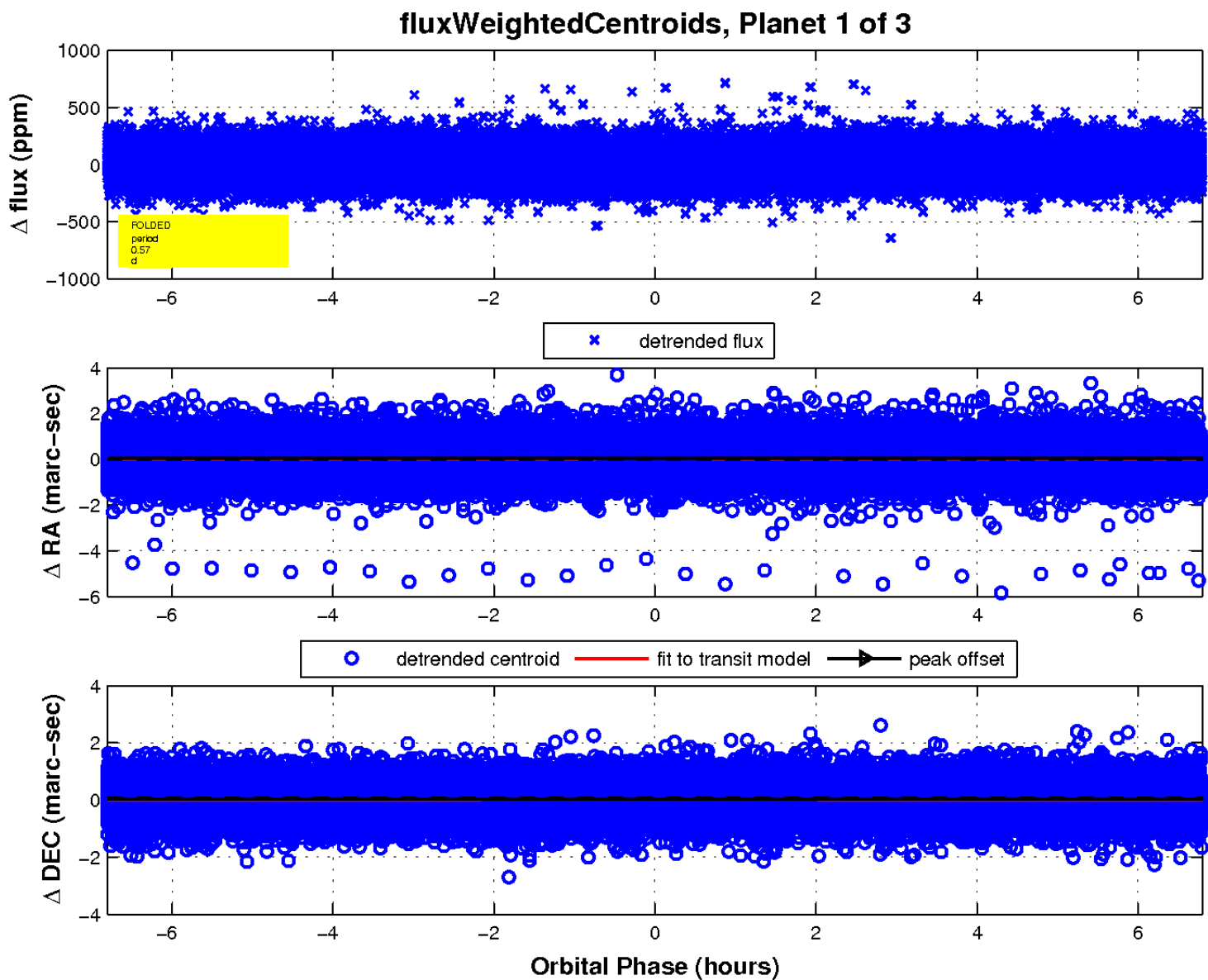
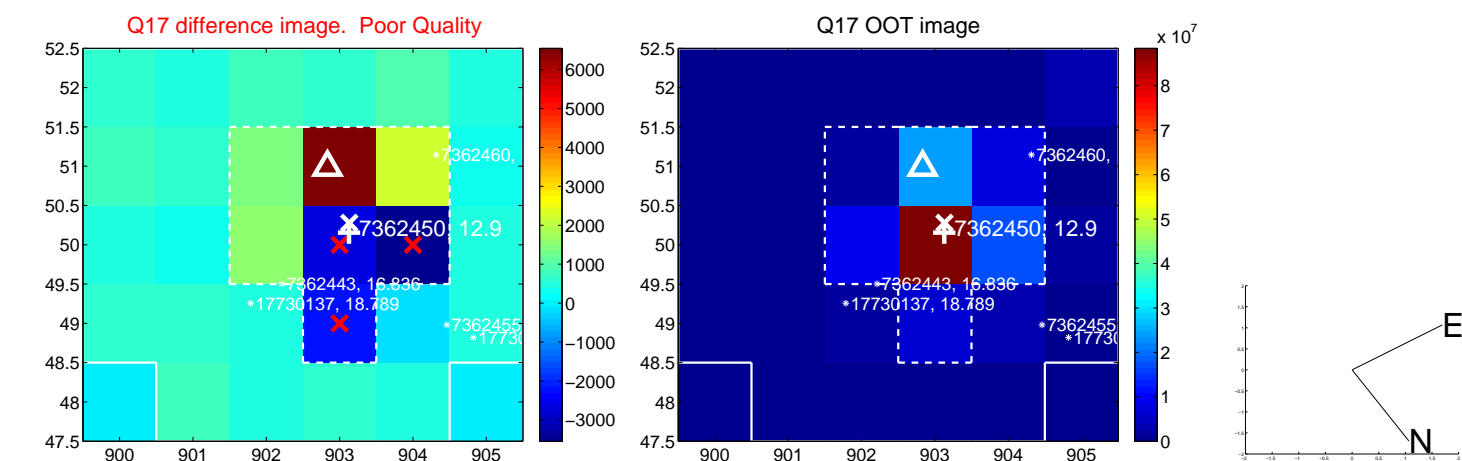
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

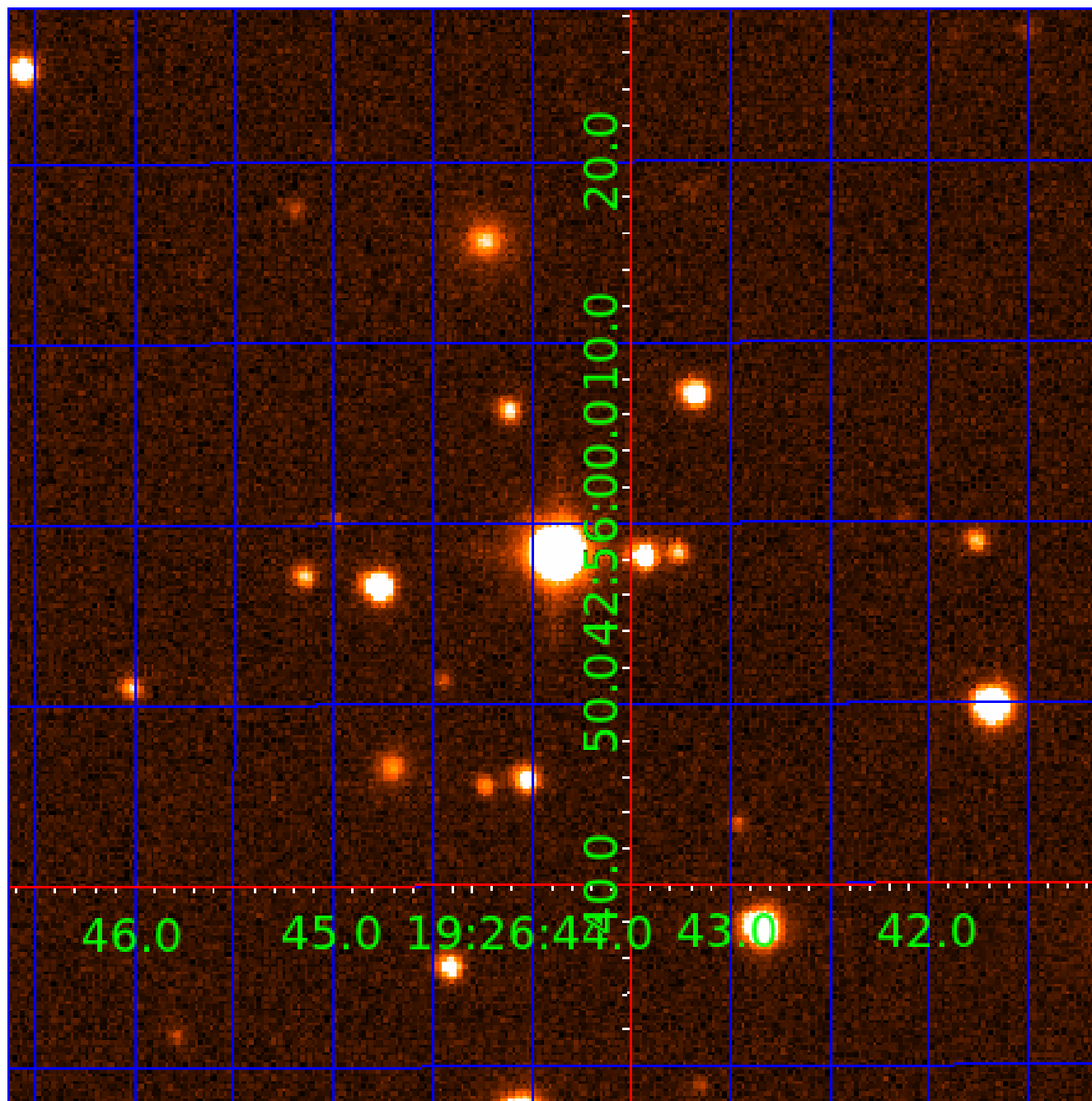


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007362450

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})
007362450-01	OBS	7585.01	0.566769	131.856753	8.8	4.299	12.2	8.9	1.55	5616	0.46	12219.53
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007362450-01	OBS	FP	0.00	1	0	0	1	LPP_DV—CENT_KIC_POS—EPHEM_MATCH
007362450-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
007362450-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS

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 007362450-02

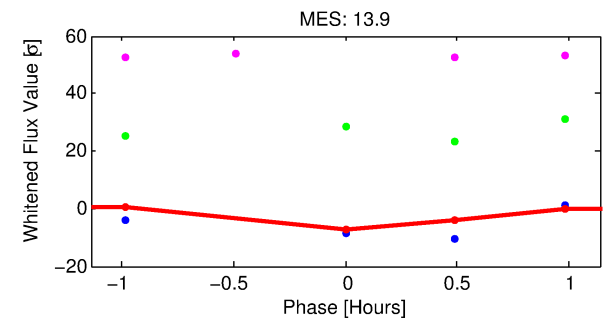
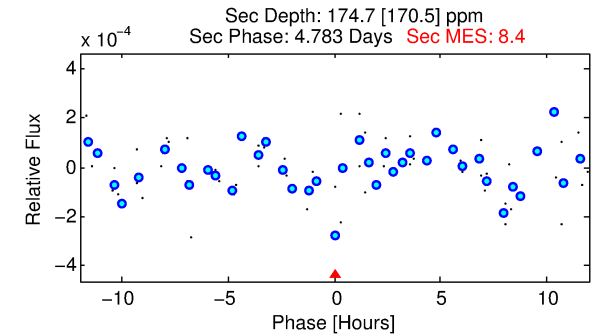
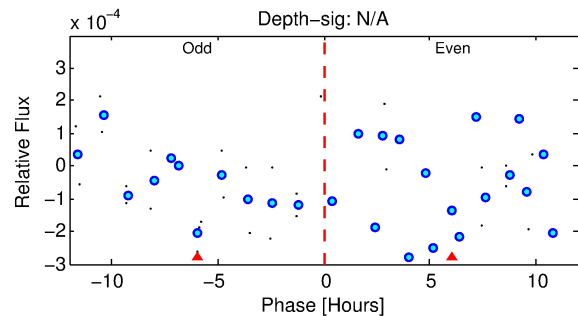
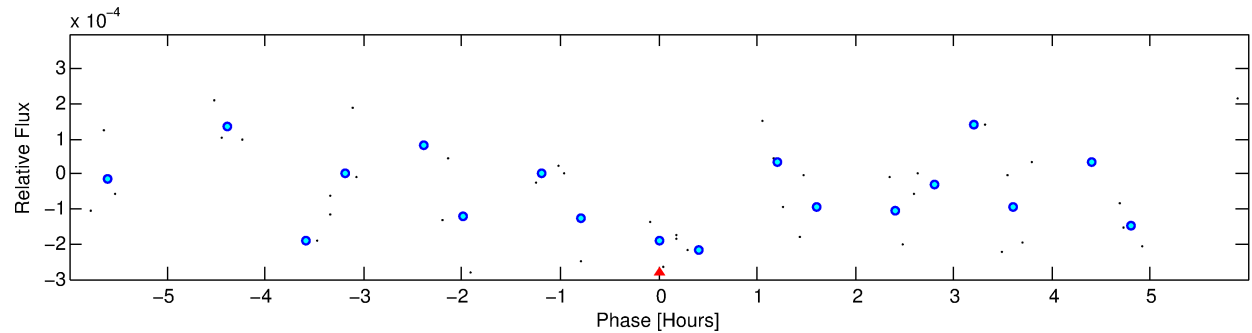
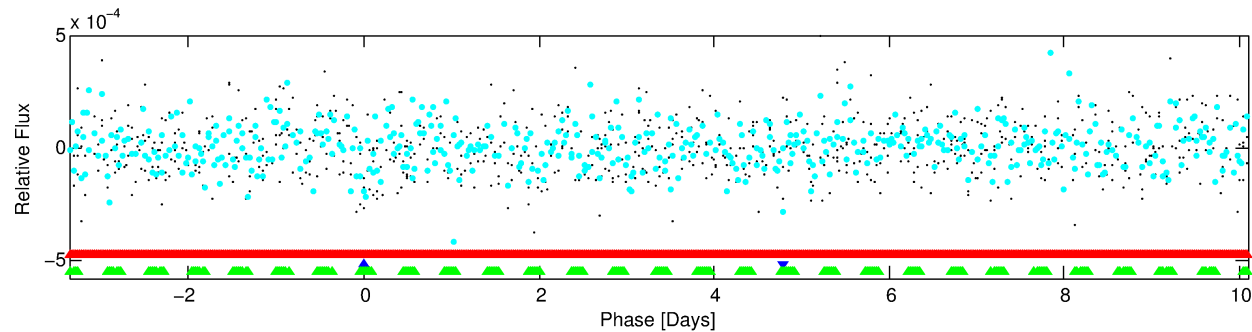
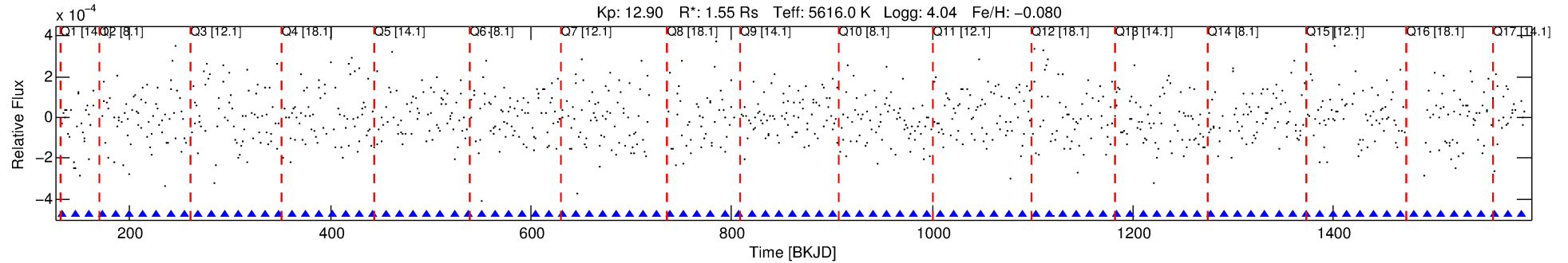
No Significant Match Found

DV One-Page Summary

KIC: 7362450 Candidate: 2 of 3 Period: 13.473 d

KOI: K07585 Corr: No Ephemeris Match

Kp: 12.90 R*: 1.55 Rs Teff: 5616.0 K Logg: 4.04 Fe/H: -0.080



TPS TCE Results:

Period = 13.47258 d

Epoch = 132.8674 BKJD

DV fit results are unavailable

DV Diagnostic Results:

ShortPeriod-sig: 100.0% [69.04σ]

LongPeriod-sig: N/A

ModelChiSquare2-sig: N/A

ModelChiSquareGoF-sig: N/A

Bootstrap-pfa: 1.18e-06

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 [0]

KicOffset-st: 0/0/0/0 [0]

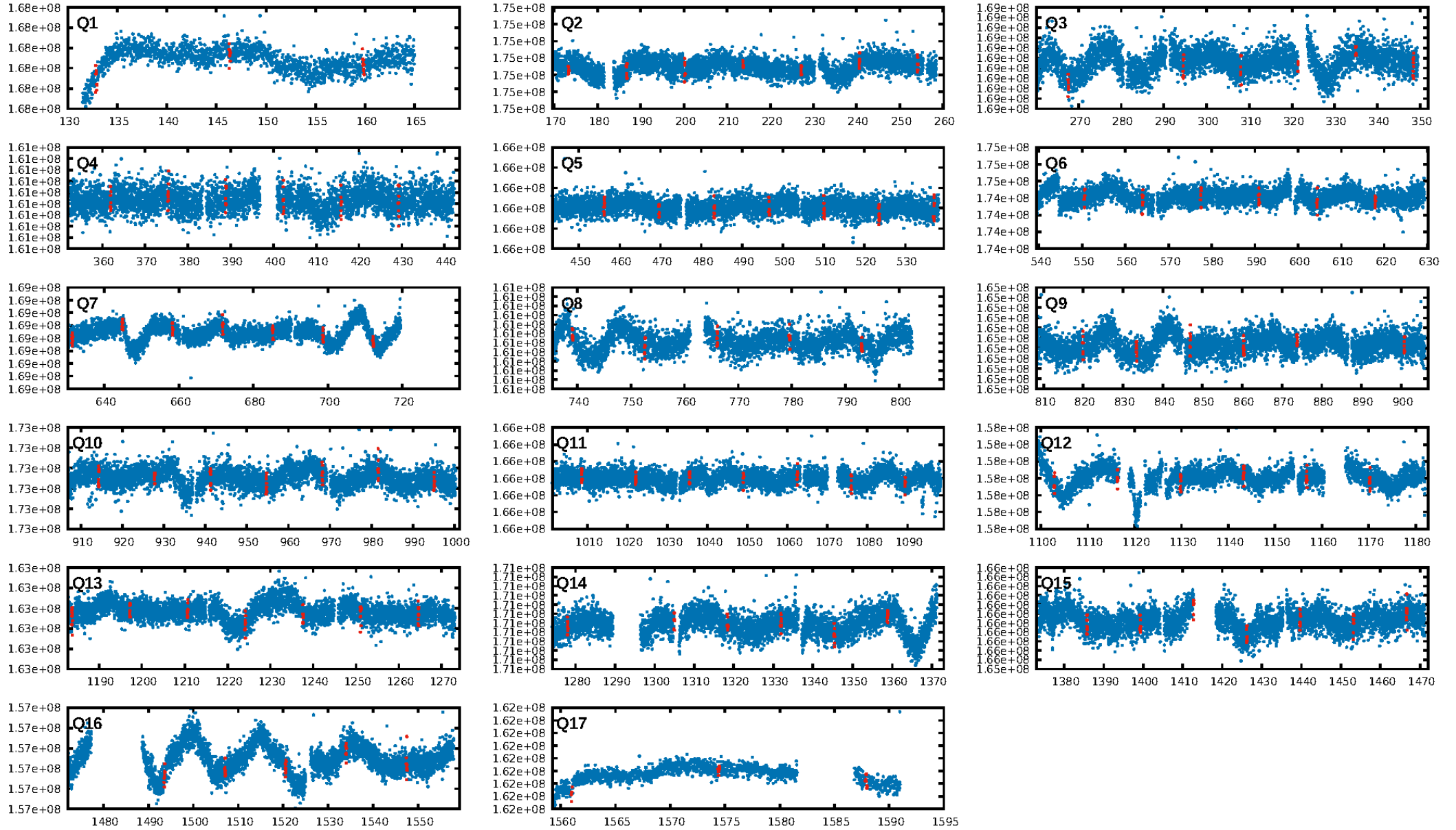
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DiffImageOverlap-fno: N/A

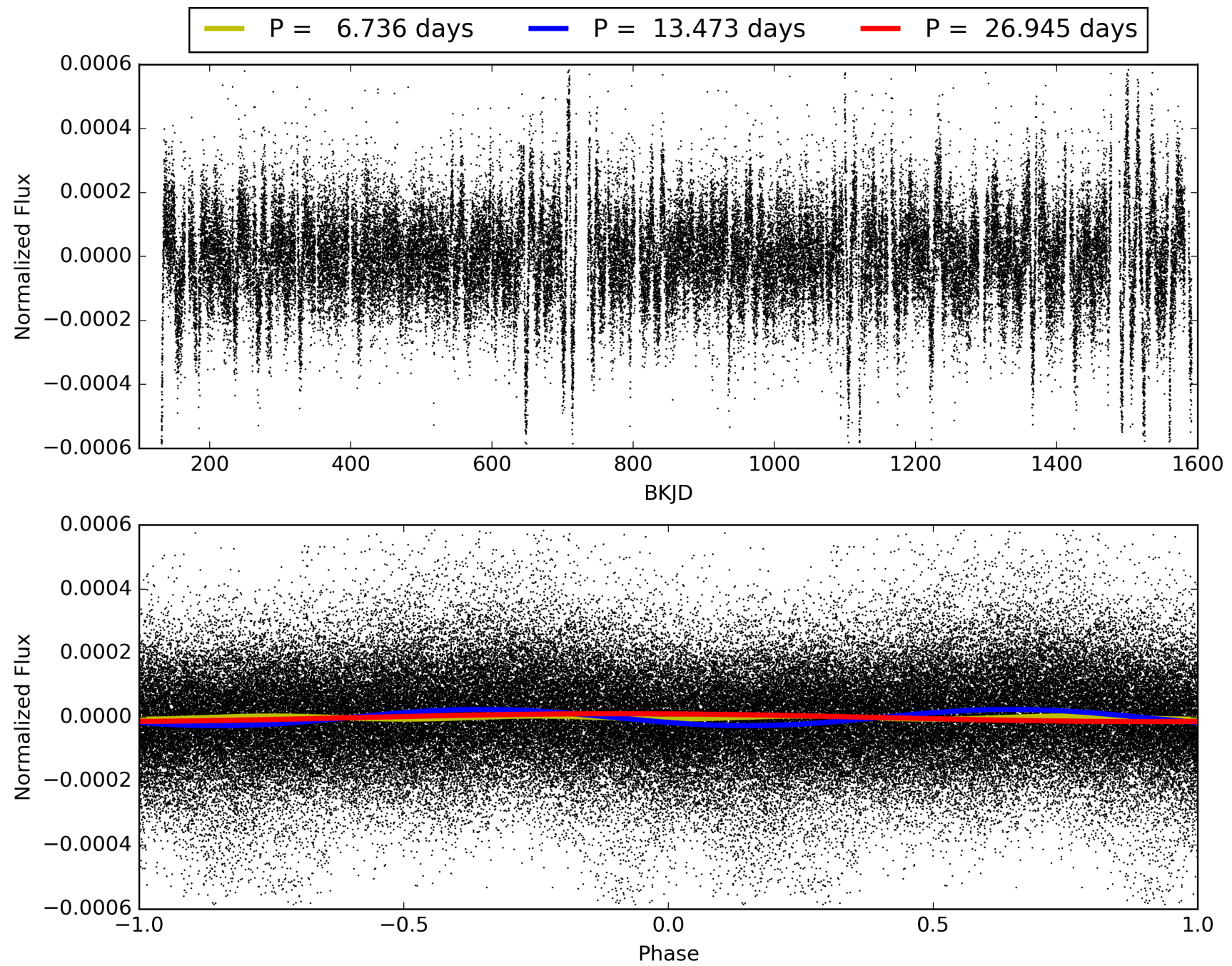
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 02:17:10 Z

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

TCE 007362450-02, PDC Light Curves

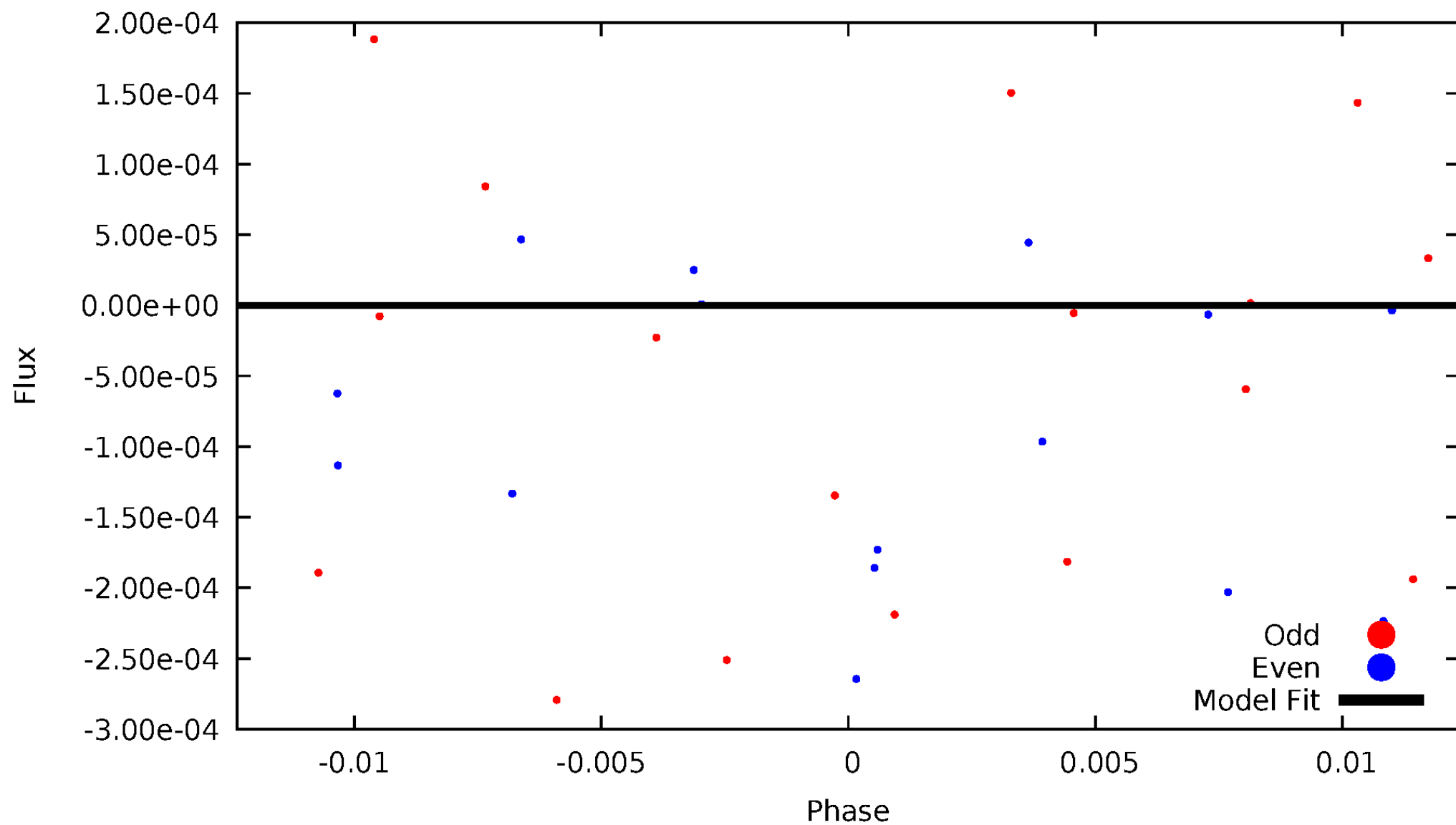


TCE 007362450-02



DV Odd/Even

TCE 007362450-02

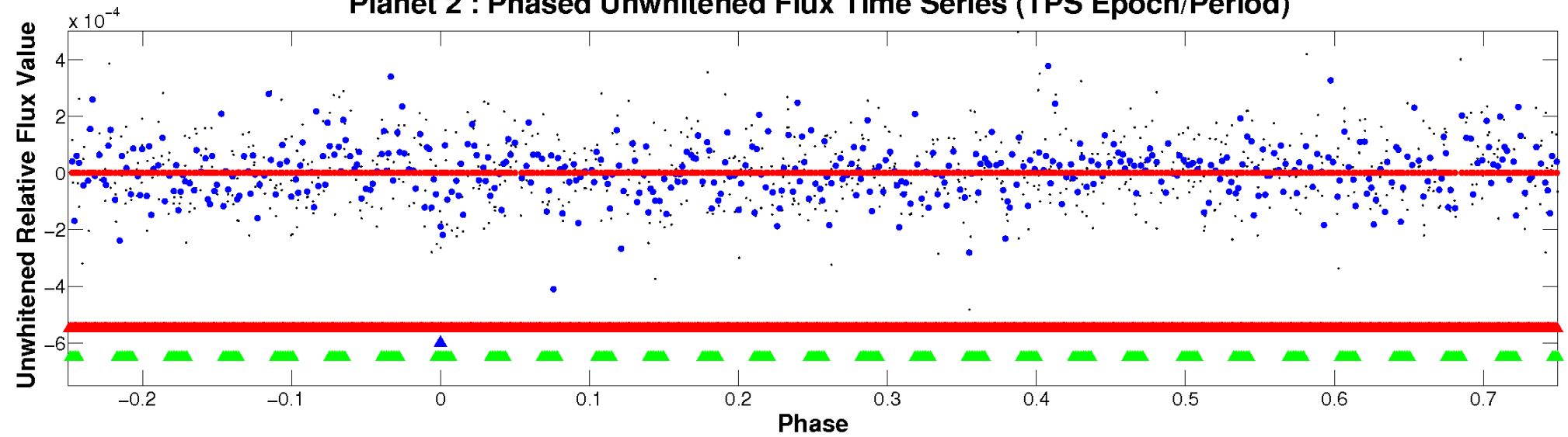


ALT Odd/Even

This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

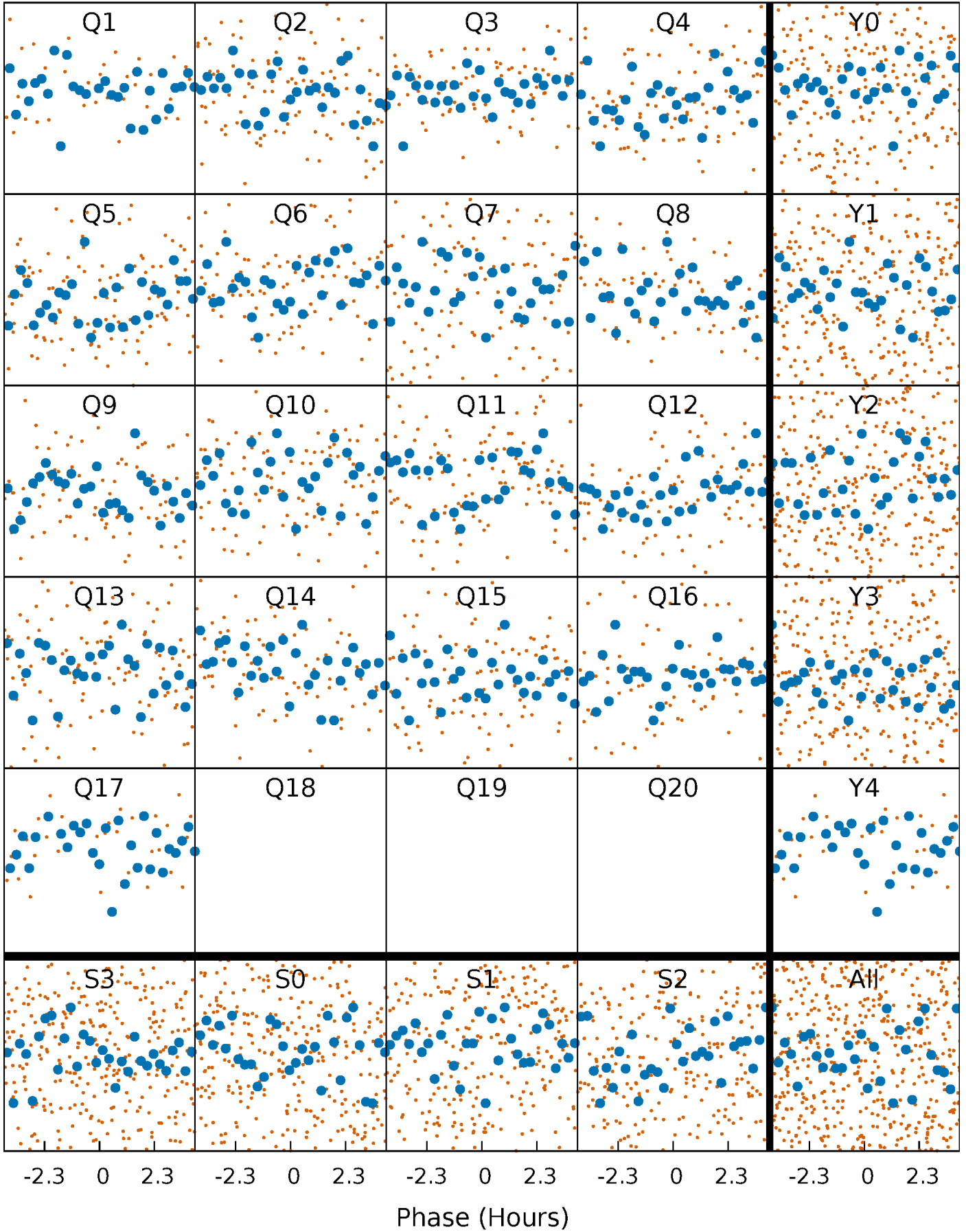


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



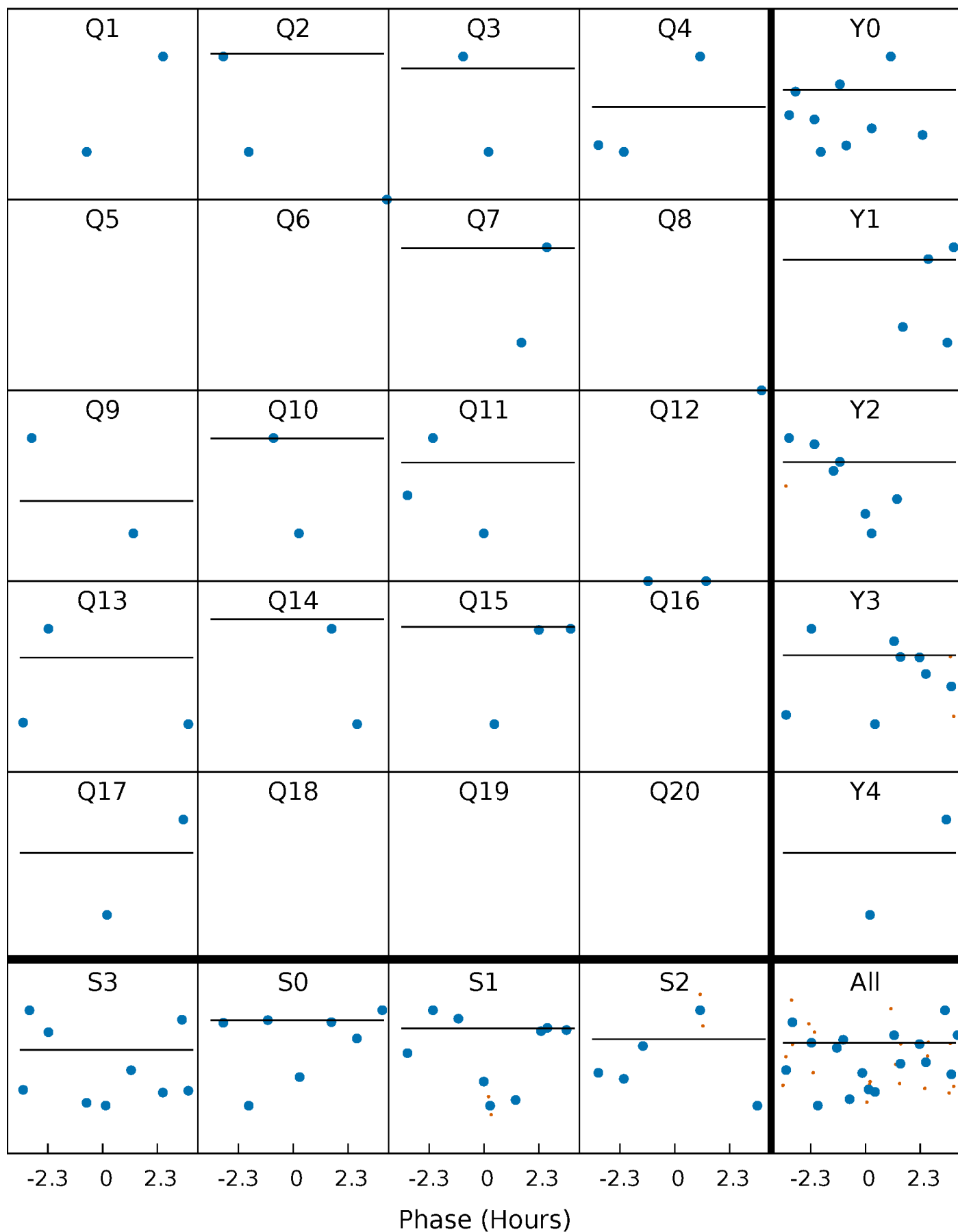
PDC Quarter-Phased Transit Curves

TCE 007362450-02 $P = 13.472577$ Days $T_0 = 132.867444$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007362450-02 P= 13.472577 Days $T_0=132.867444$ (BKJD)

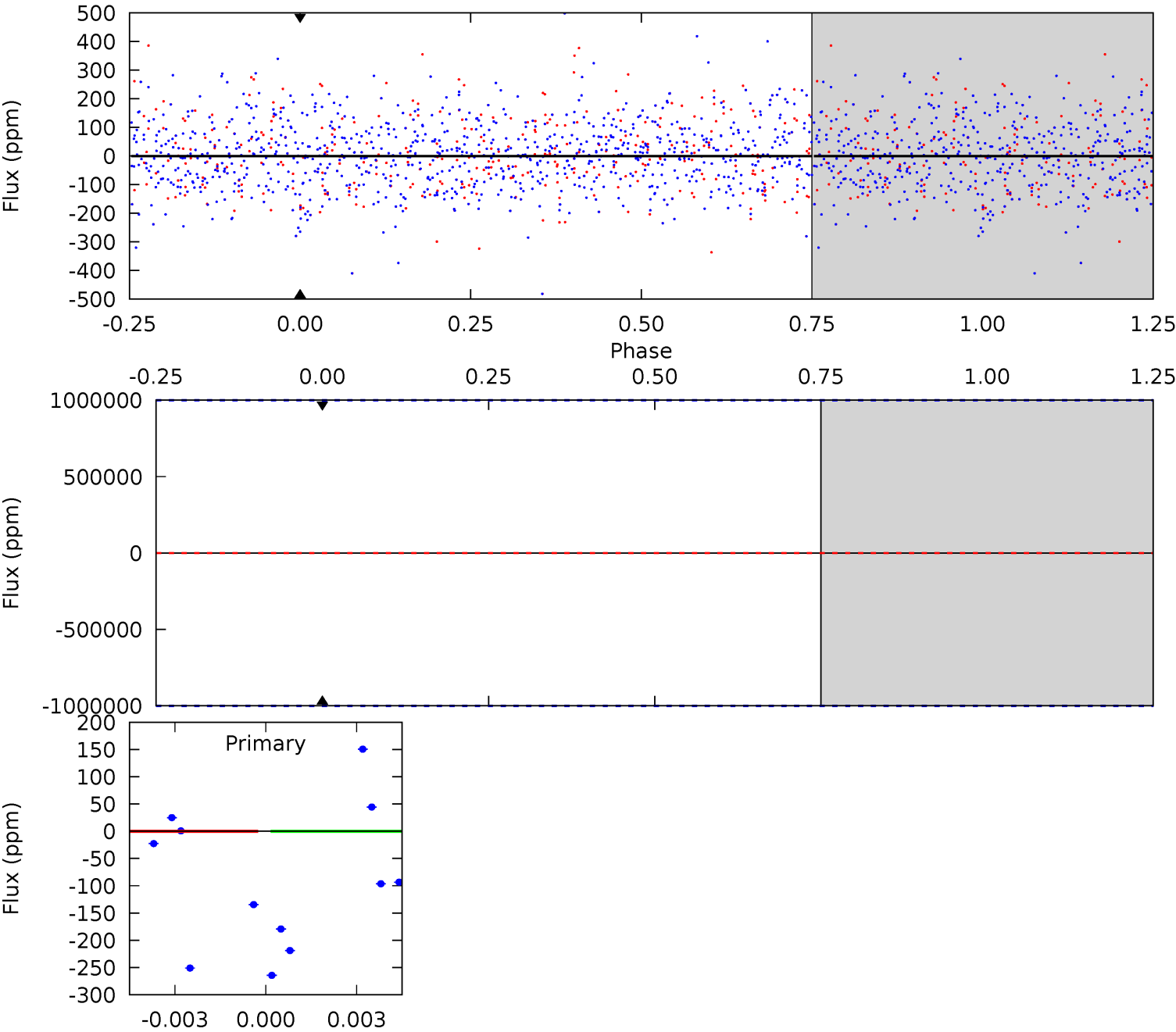


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007362450-02, P = 13.472577 Days, E = 119.394867 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 007362450

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5616^{+155}_{-141}	$4.040^{+0.435}_{-0.145}$	$-0.080^{+0.300}_{-0.250}$	$1.547^{+0.407}_{-0.662}$	$0.958^{+0.114}_{-0.114}$	$0.364^{+1.255}_{-0.176}$
	+3%/-3%	+11%/-4%	+375%/-312%	+26%/-43%	+12%/-12%	+344%/-48%
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 007362450-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$11.90^{+11.98}_{-7.96}$	1284^{+101}_{-157}	3227^{+16550}_{-19143}	12^{+9793}_{-5805}
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 $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

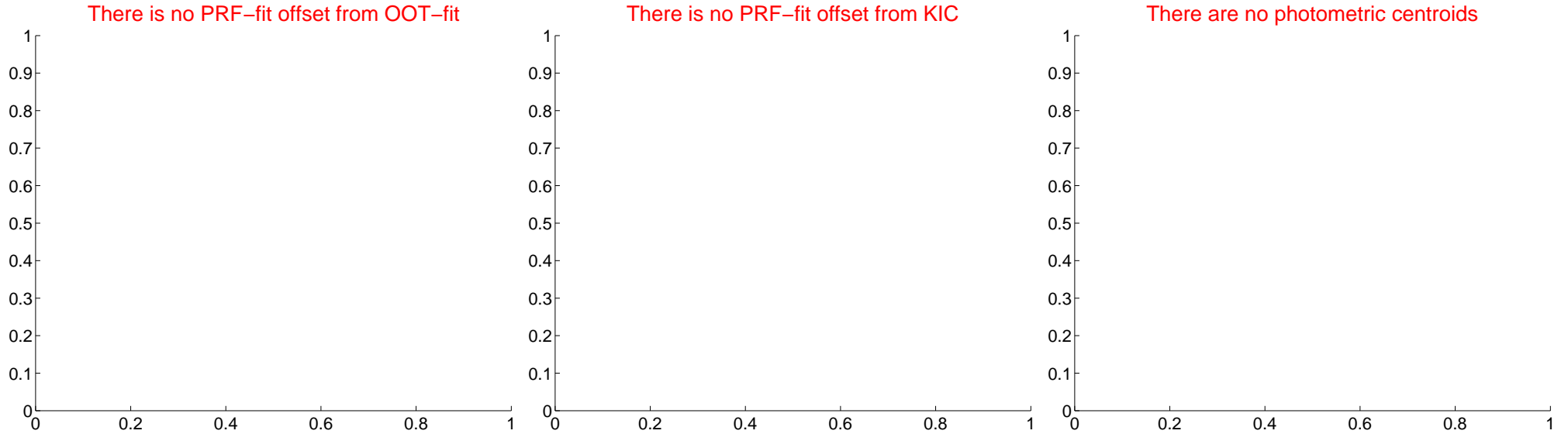
DV Centroid Data

Supplemental centroid analysis for 007362450-02. Kepler magnitude: 12.90. 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	—	—	—	—

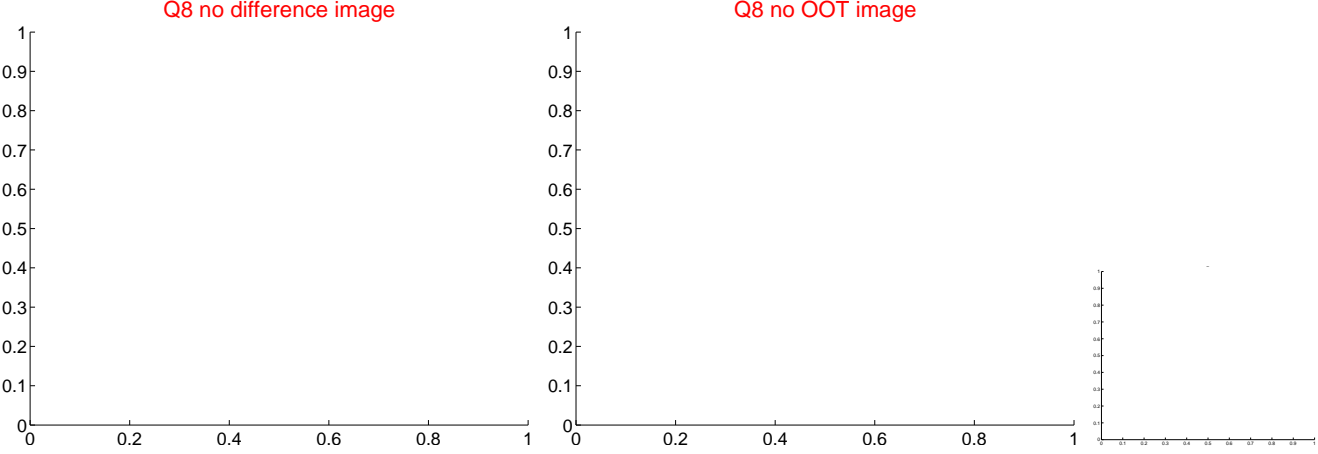
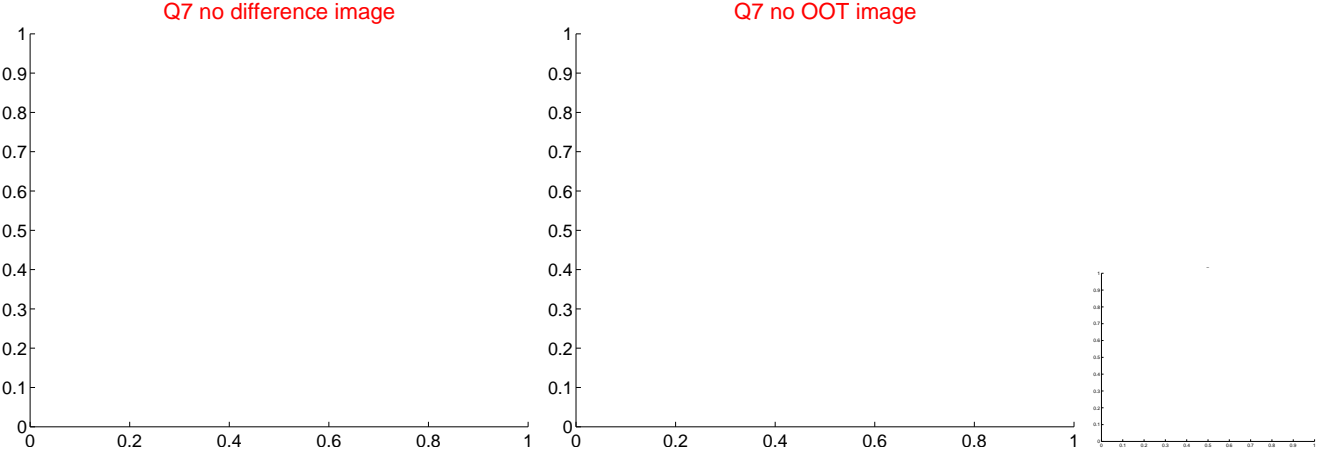
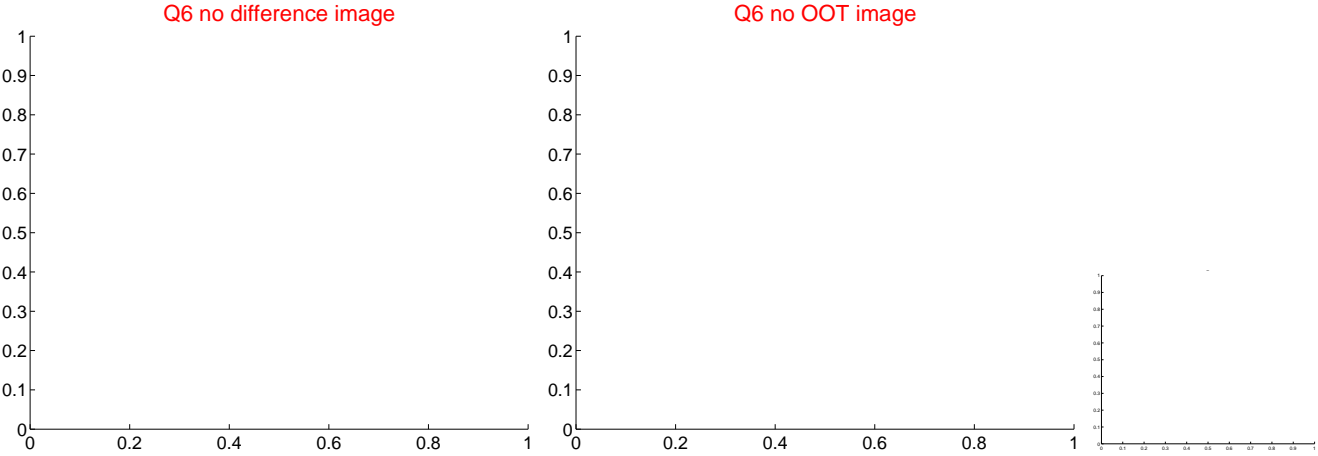


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



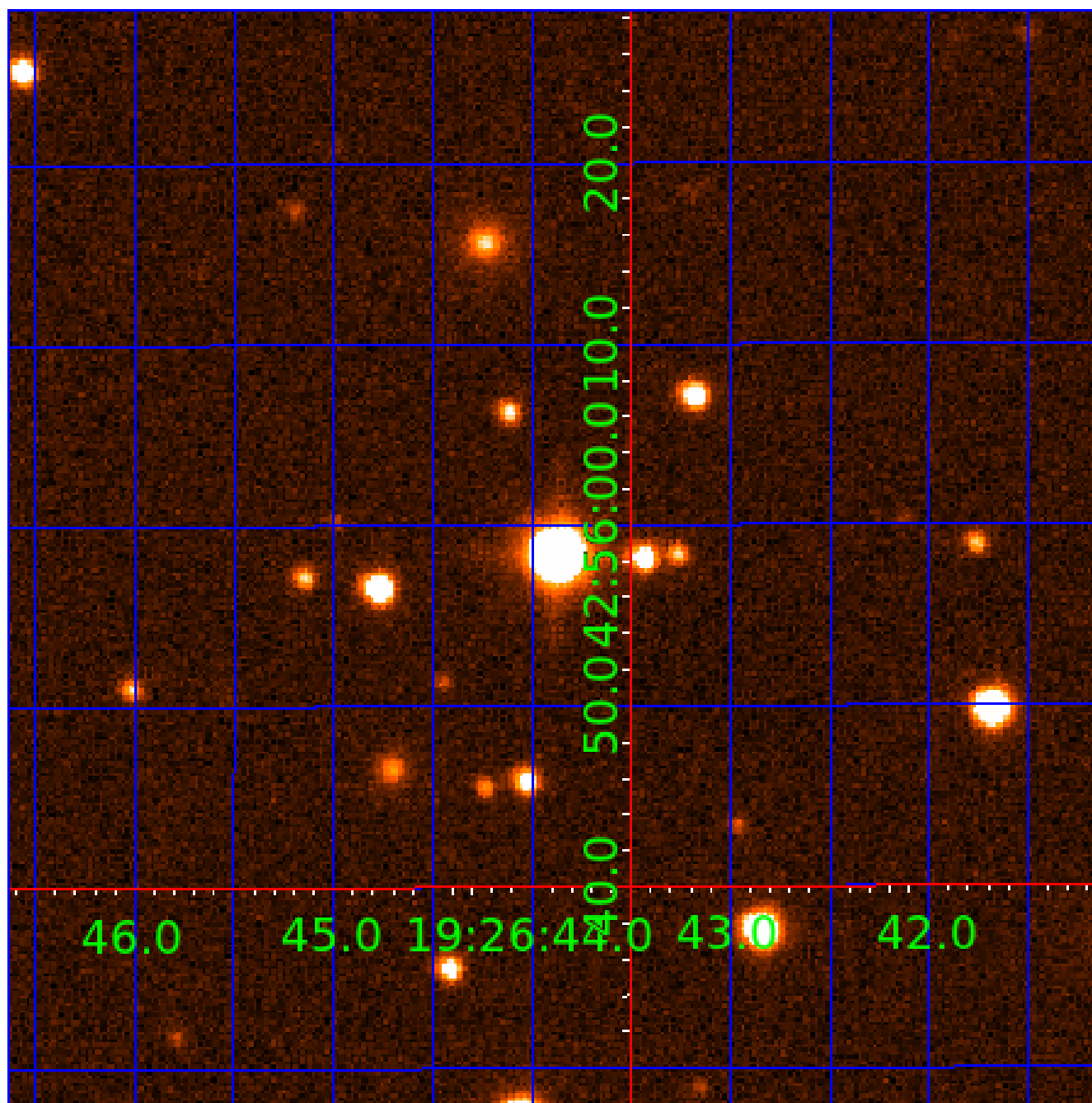
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 007362450

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})
007362450-01	OBS	7585.01	0.566769	131.856753	8.8	4.299	12.2	8.9	1.55	5616	0.46	12219.53
007362450-02	OBS	No	13.472577	132.867444	467.0	2.000	13.9	-1.0	1.55	5616	3.31	178.78
007362450-03	OBS	No	7.216637	136.828099	184.2	0.854	15.7	17.5	1.55	5616	2.17	410.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007362450-01	OBS	FP	0.00	1	0	0	1	LPP_DV—CENT_KIC_POS—EPHEM_MATCH
007362450-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS
007362450-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS

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

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

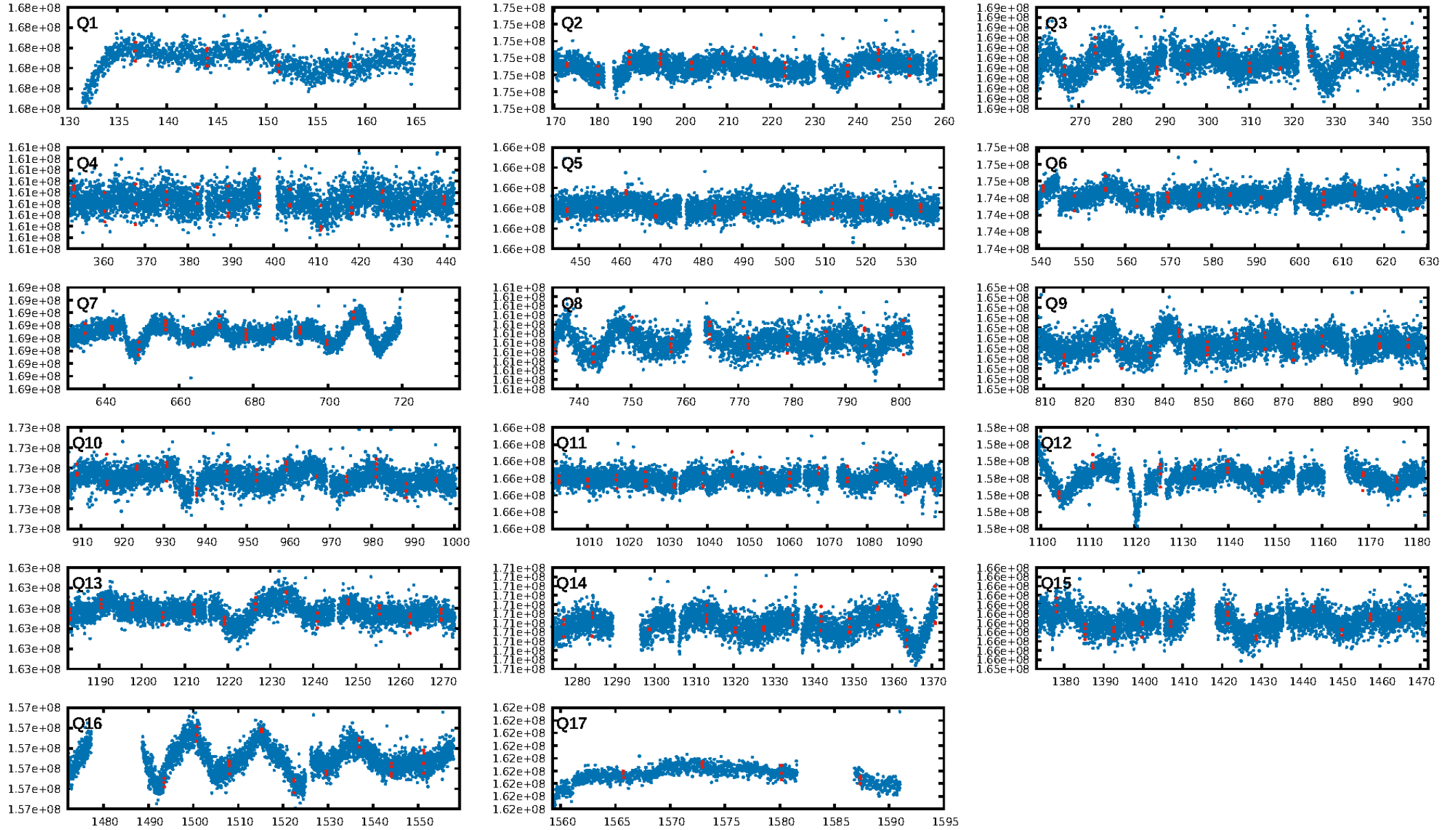
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007362450-03

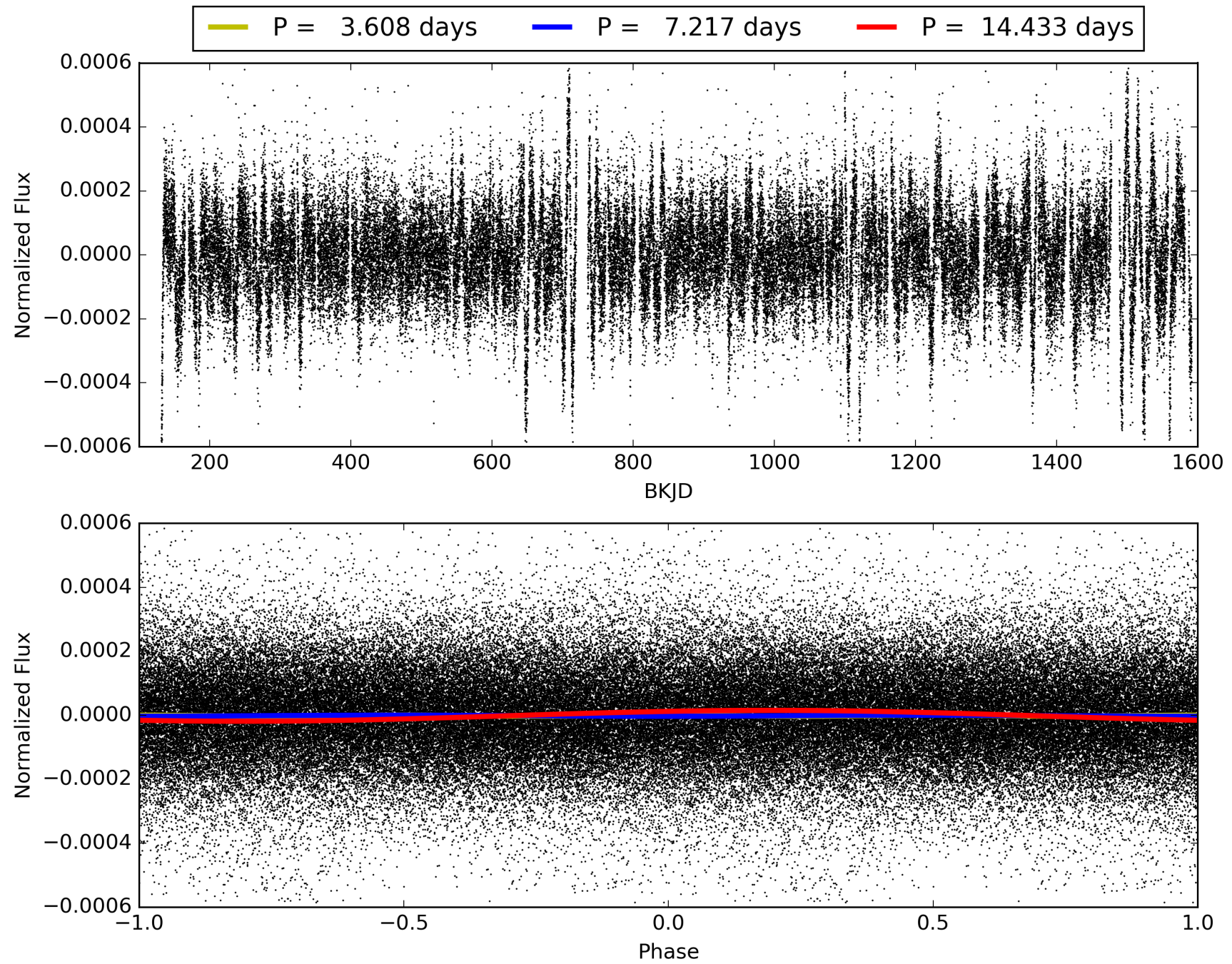
No Significant Match Found

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

TCE 007362450-03, PDC Light Curves

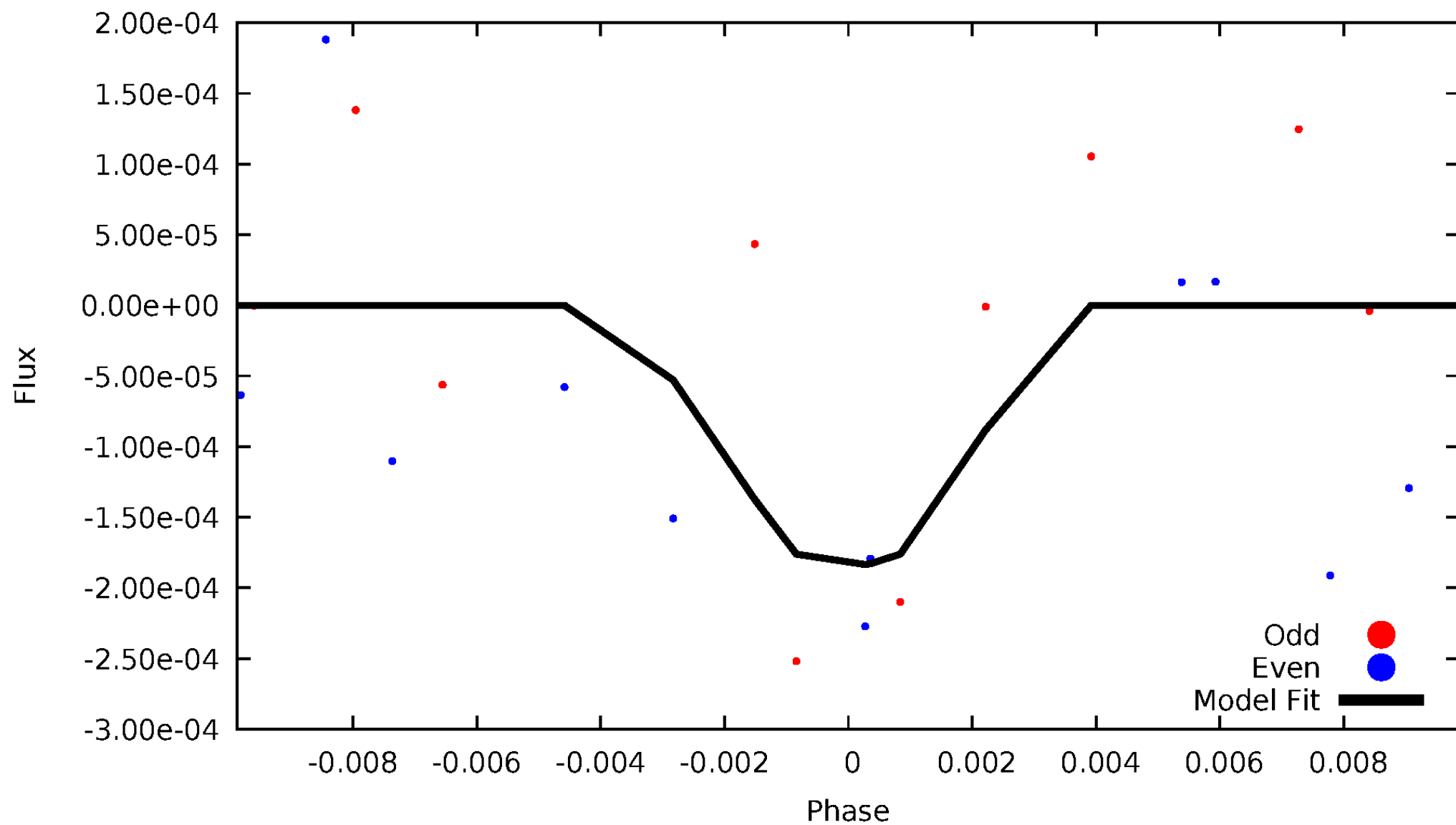


TCE 007362450-03



DV Odd/Even

TCE 007362450-03

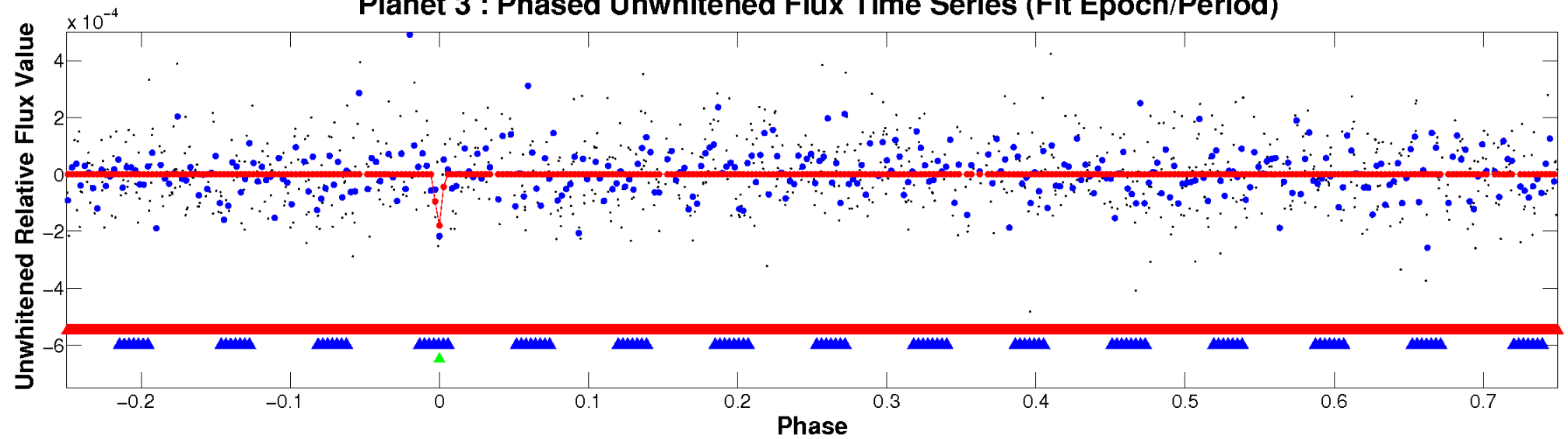


ALT Odd/Even

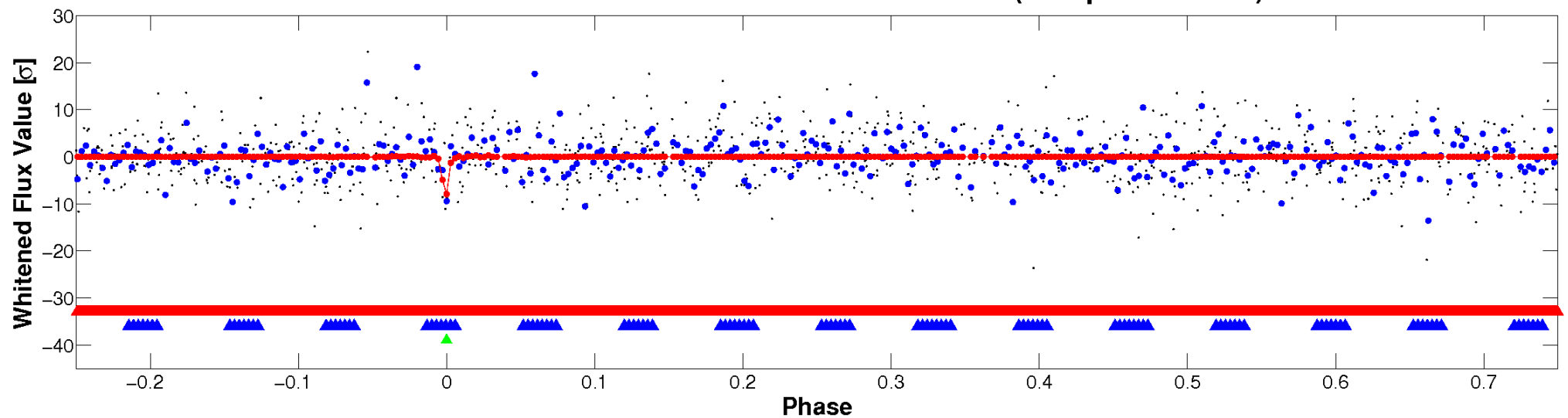
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

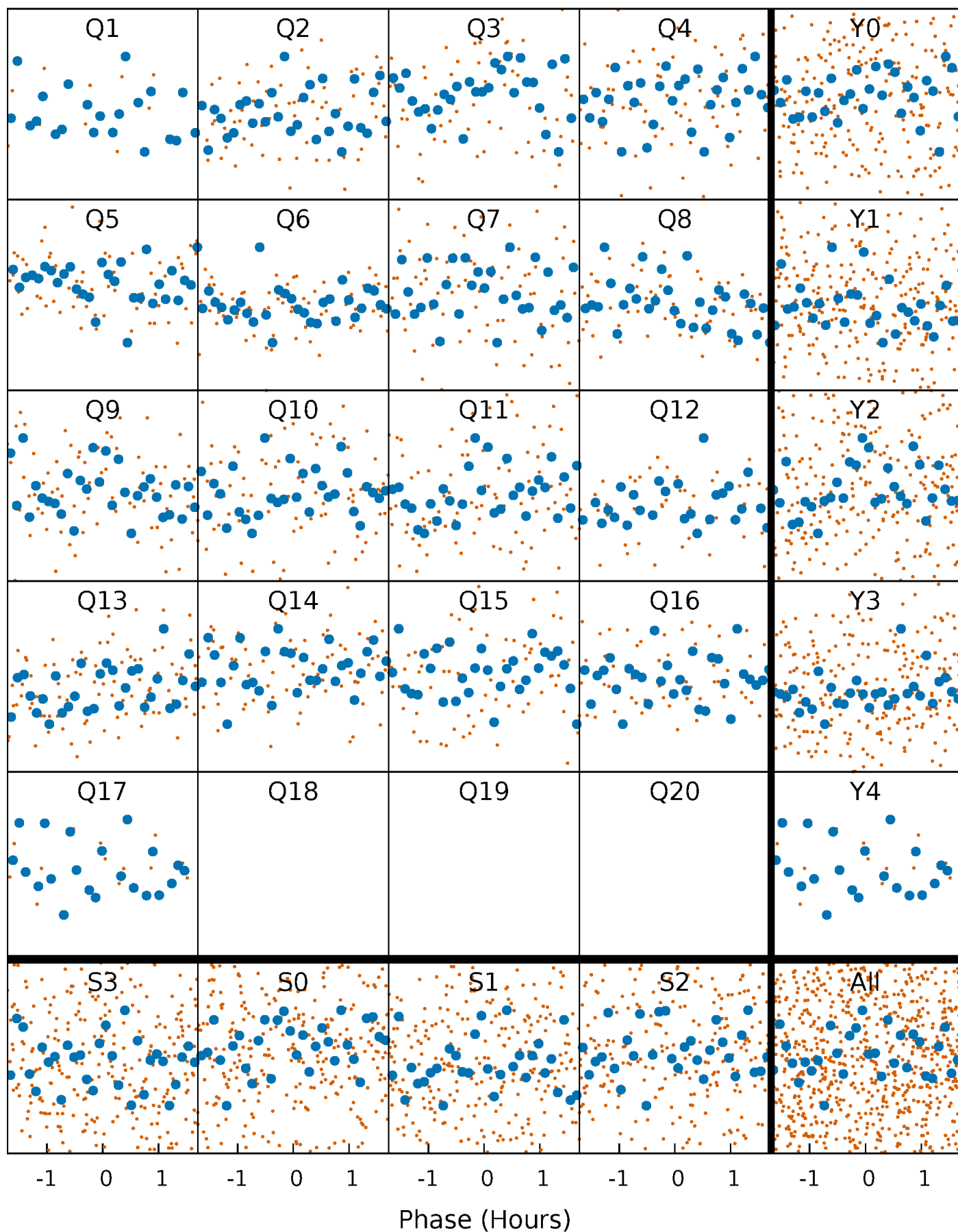


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



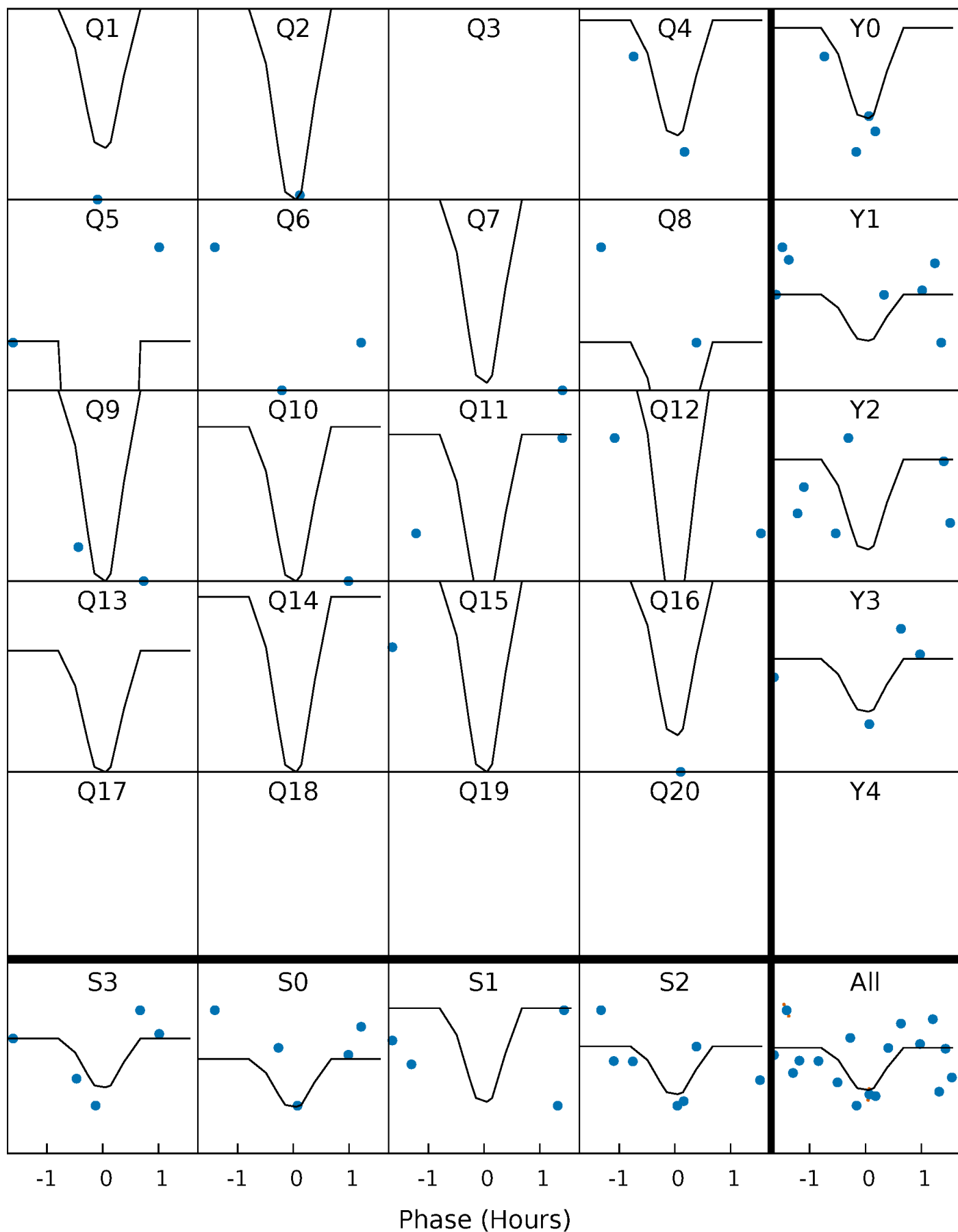
PDC Quarter-Phased Transit Curves

TCE 007362450-03 P= 7.216637 Days $T_0=136.828099$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007362450-03 P= 7.216637 Days $T_0=136.828099$ (BKJD)

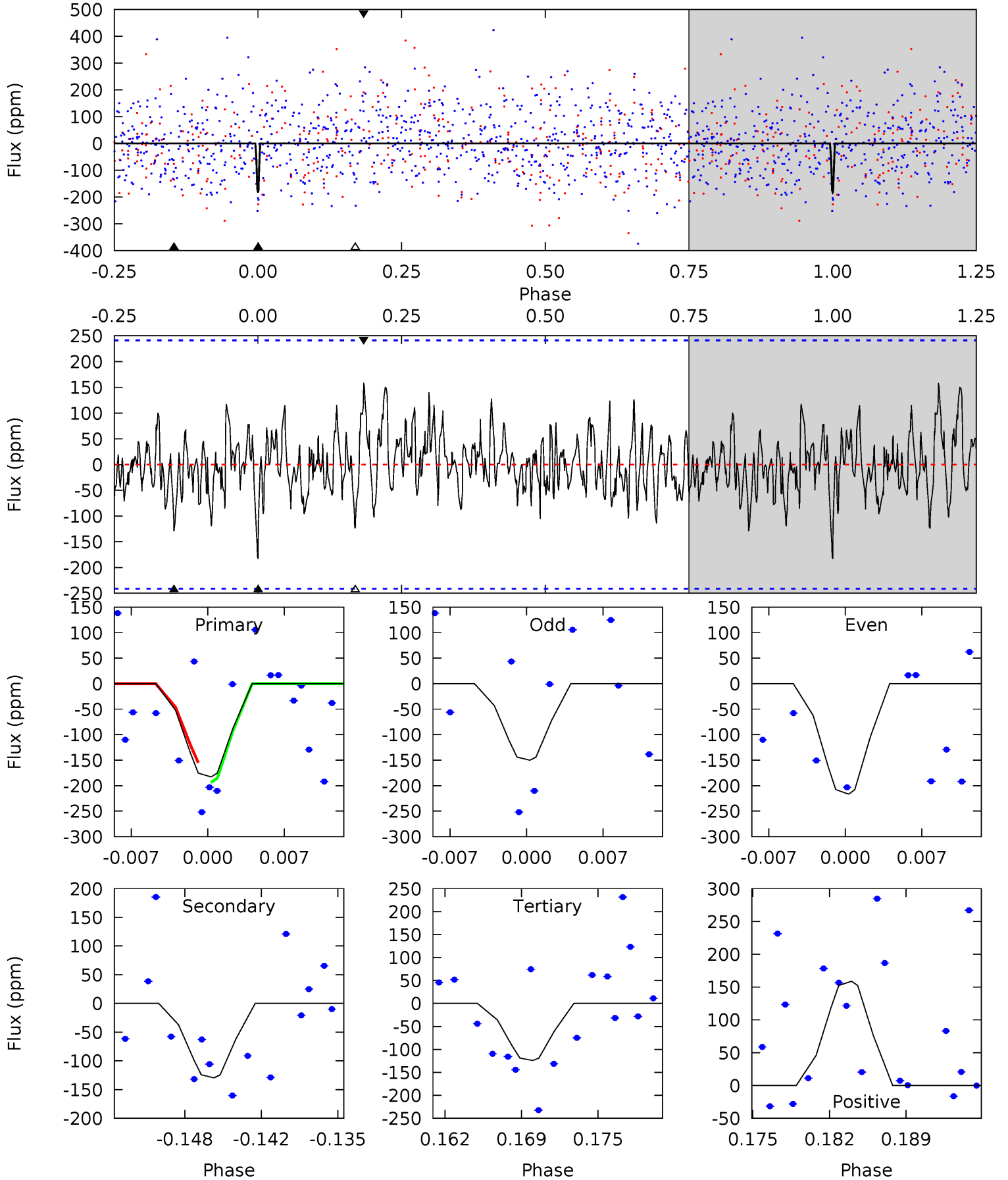


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007362450-03, P = 7.216637 Days, E = 129.611462 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.86	2.74	2.62	3.36	5.10	2.71	1.08	1.24	0.51	0.12	-0.62	0.74	0	0.46	0.39



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007362450

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5616^{+155}_{-141}	$4.040^{+0.435}_{-0.145}$	$-0.080^{+0.300}_{-0.250}$	$1.547^{+0.407}_{-0.662}$	$0.958^{+0.114}_{-0.114}$	$0.364^{+1.255}_{-0.176}$
	+3%/-3%	+11%/-4%	+375%/-312%	+26%/-43%	+12%/-12%	+344%/-48%
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 007362450-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-129 ± 47	$48.39^{+55.71}_{-34.94}$	1584^{+119}_{-176}	-2023^{+4681}_{-215}	$0.148^{+1.439}_{-0.118}$
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 $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

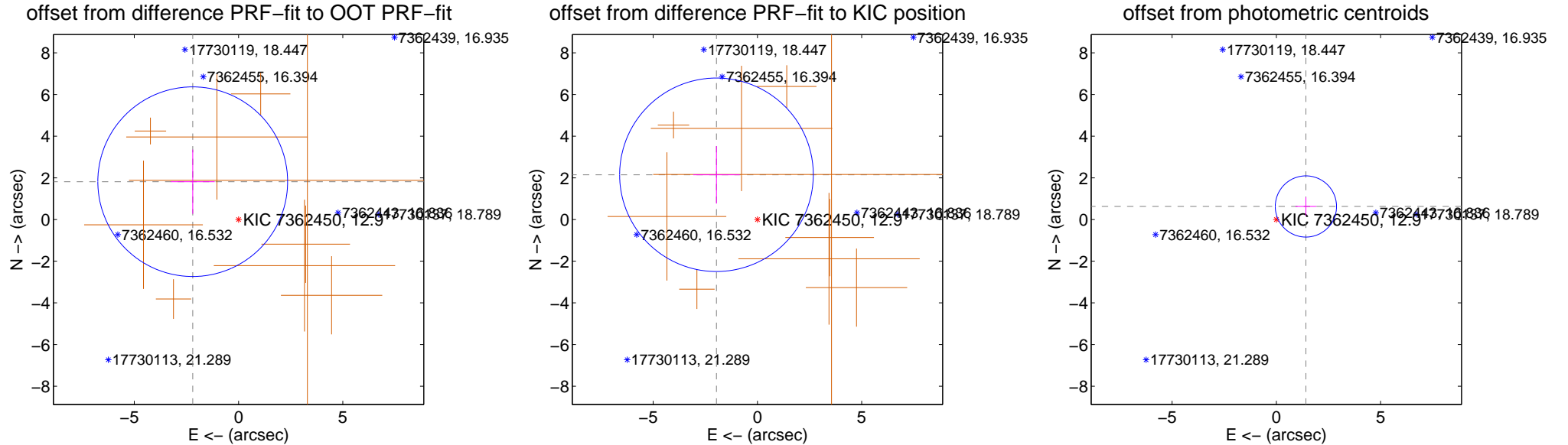
DV Centroid Data

Supplemental centroid analysis for 007362450-03. Kepler magnitude: 12.90. Transit SNR 17.49

There are 0 quarters with good PRF difference image offsets

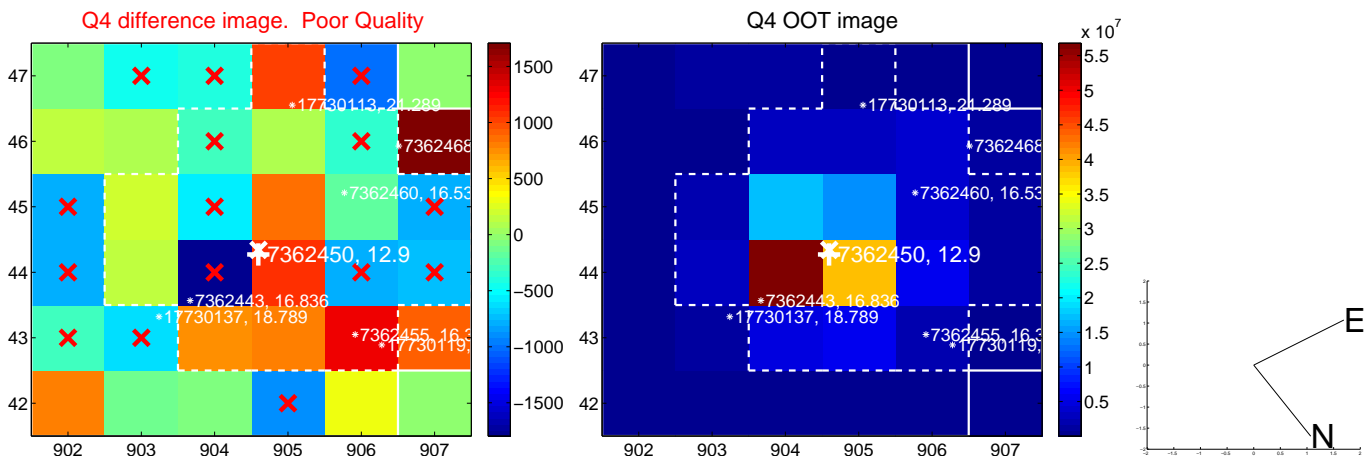
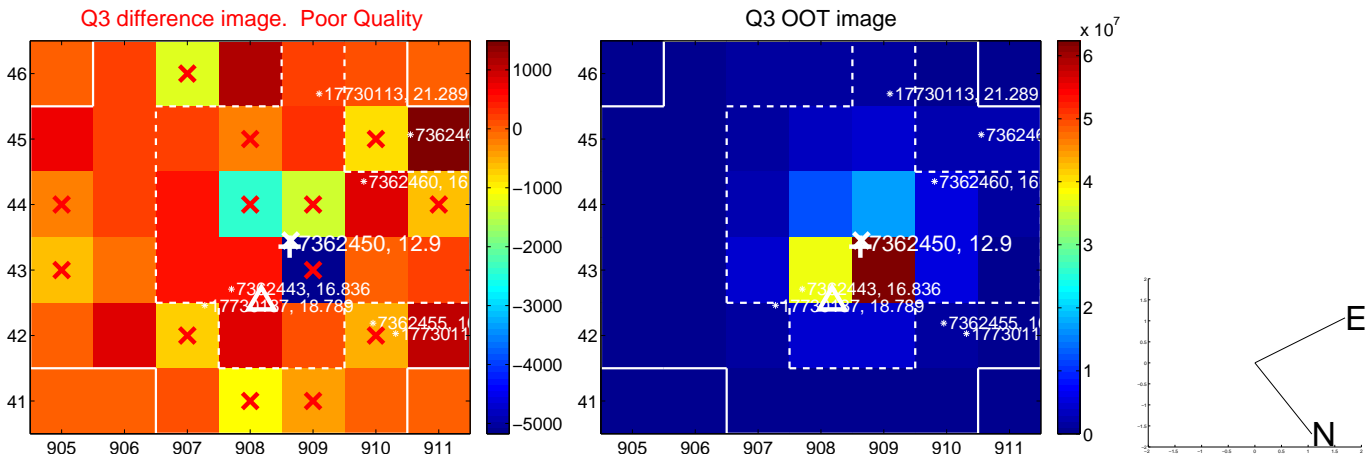
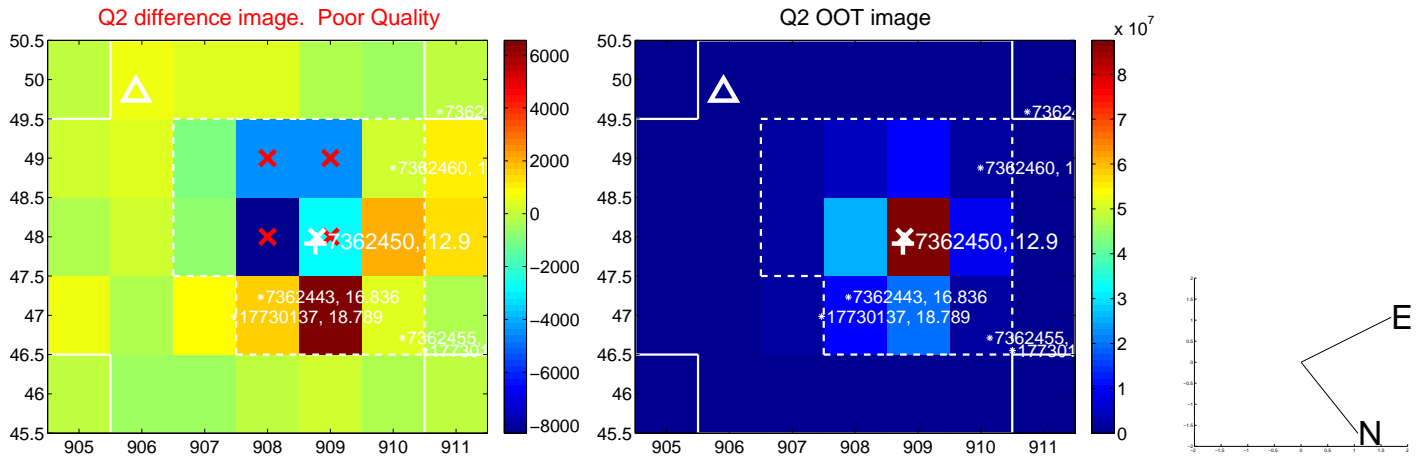
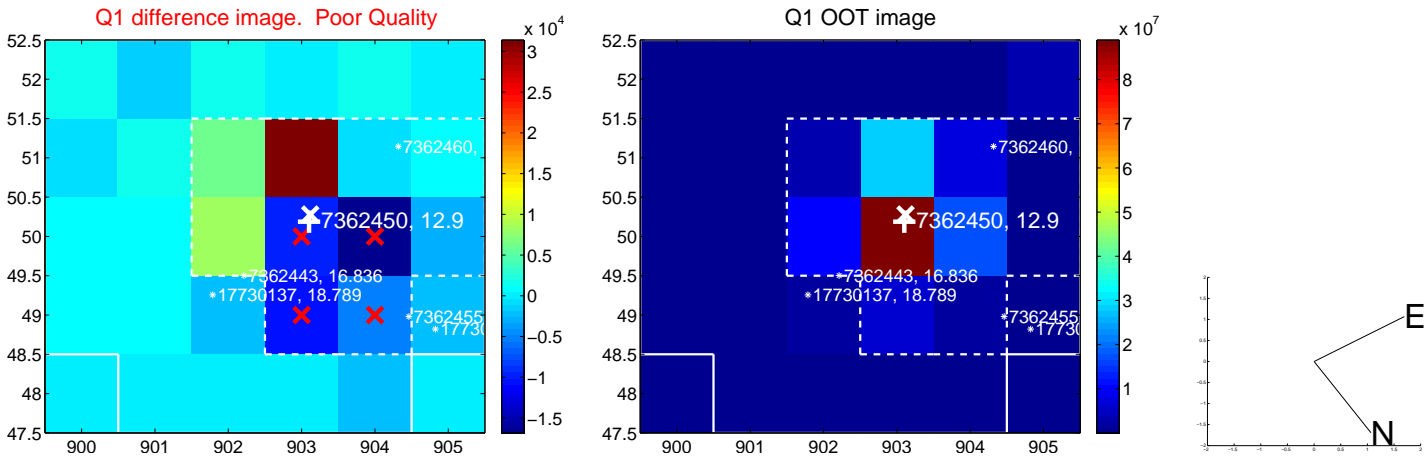
The direct PRF centroid is offset from the target star catalog position by about 0.49 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.851 ± 1.517	1.88	2.198 ± 1.055	1.816 ± 1.541
PRF-fit source offset from KIC position	2.911 ± 1.548	1.88	1.965 ± 1.116	2.148 ± 1.383
photometric centroid source offset	1.55 ± 0.49	3.17	-1.42 ± 0.50	0.63 ± 0.44

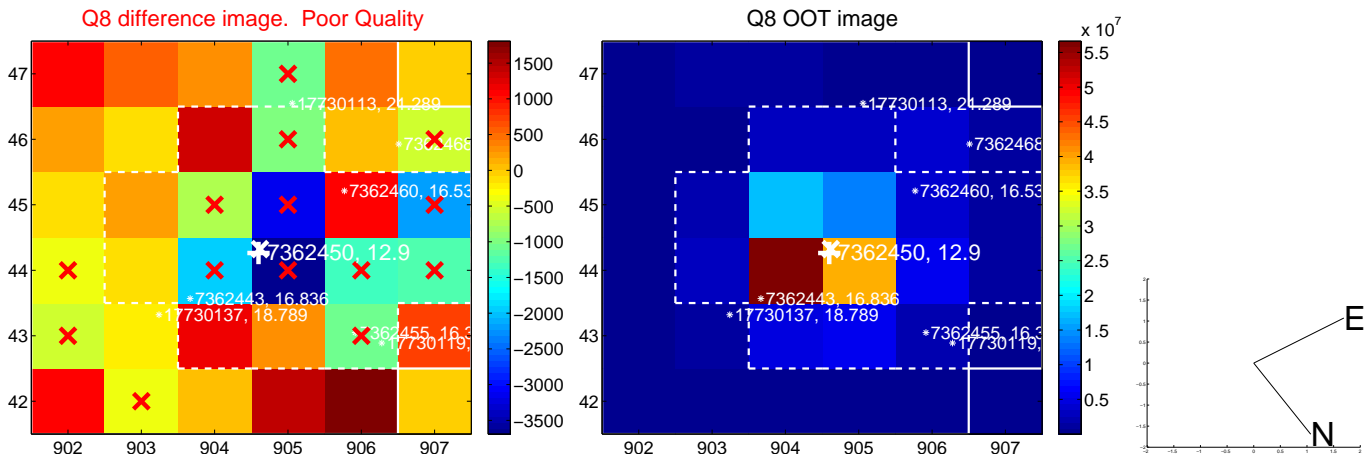
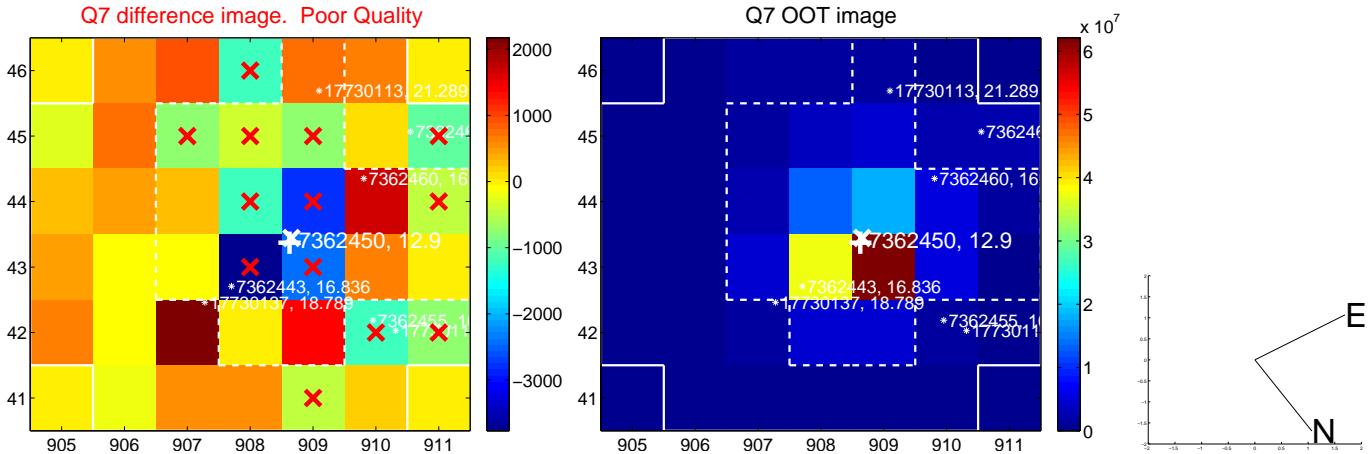
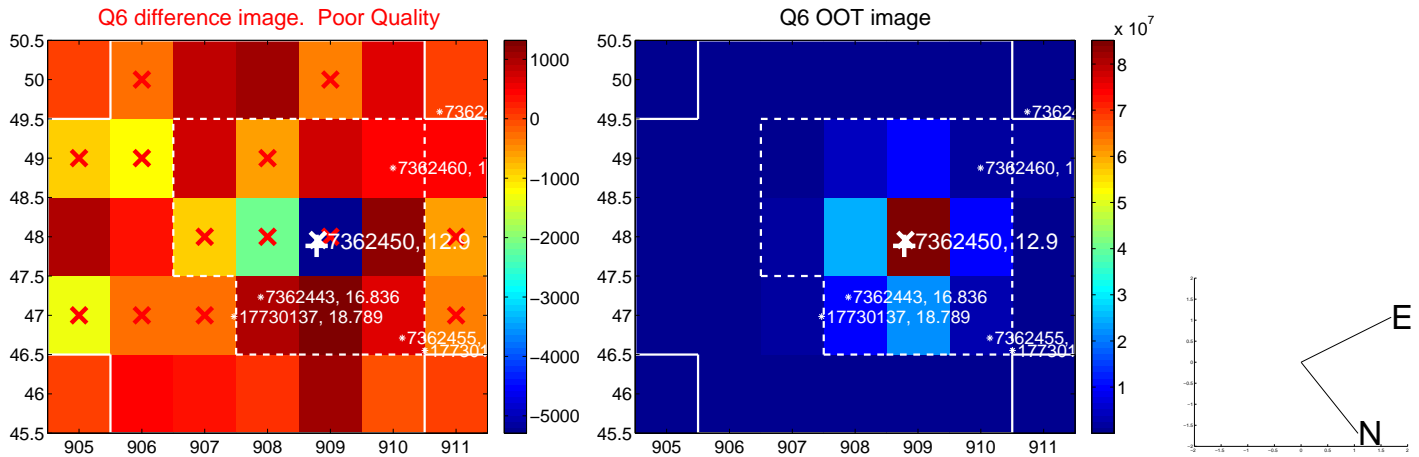
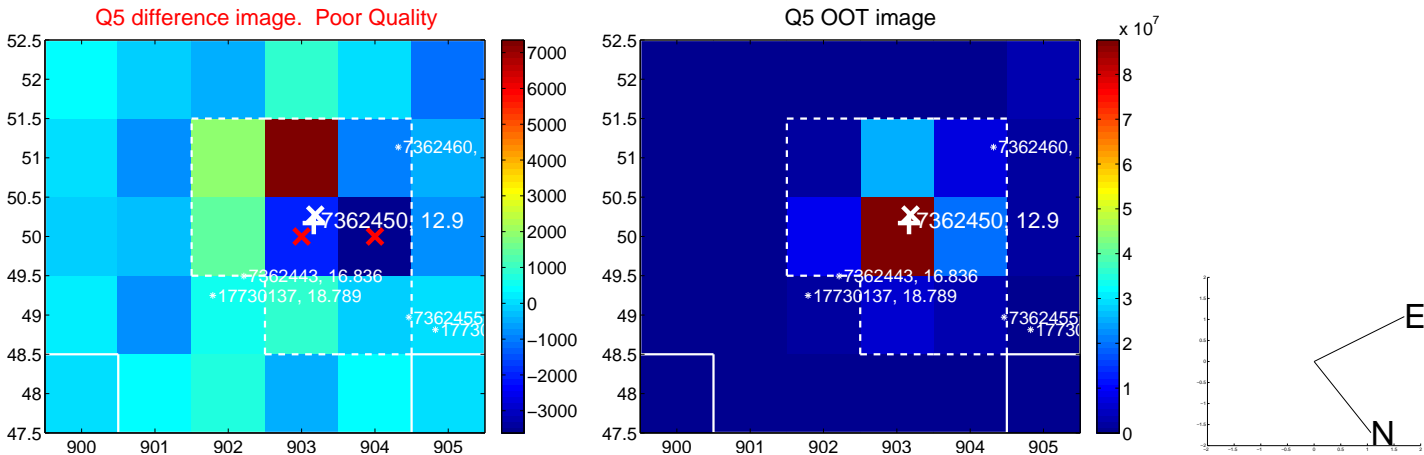


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

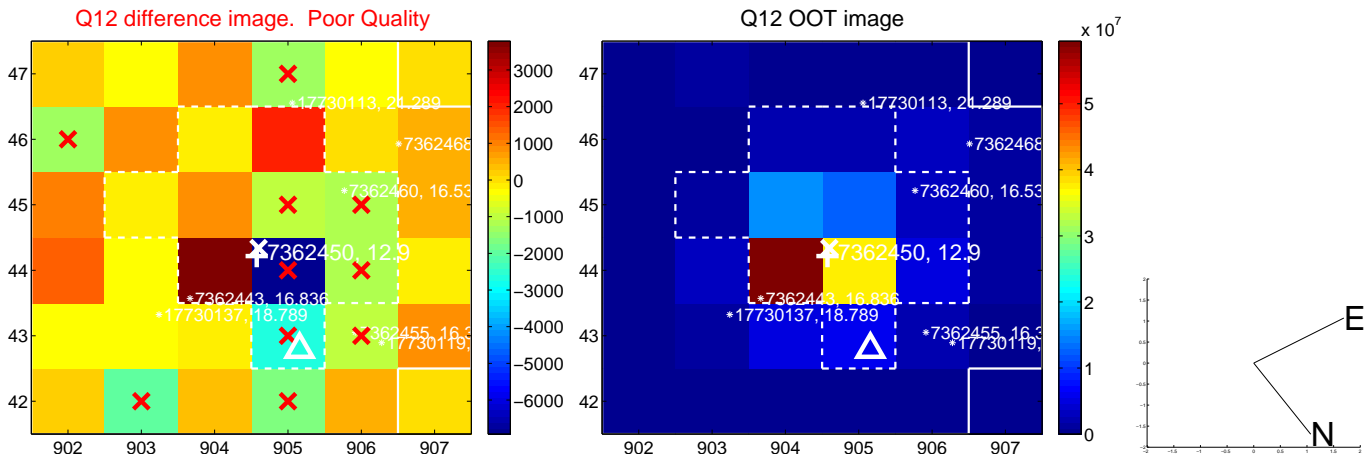
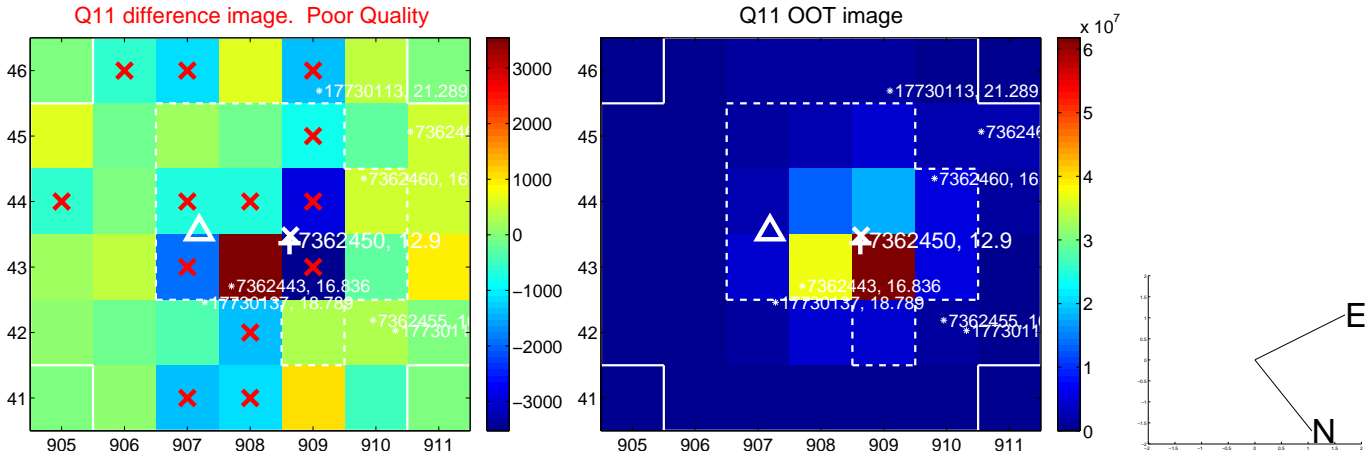
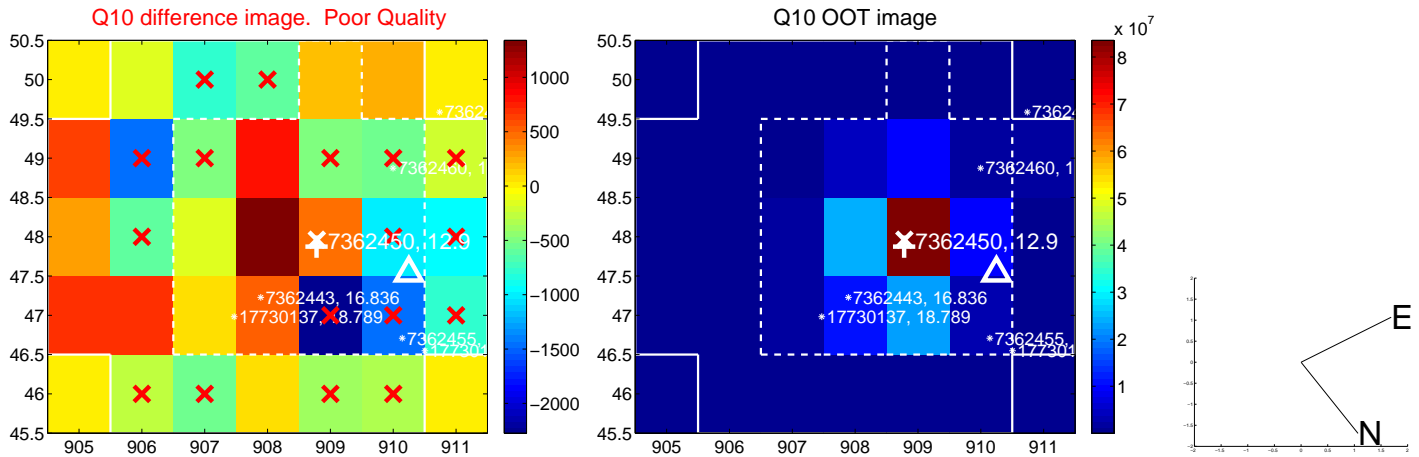
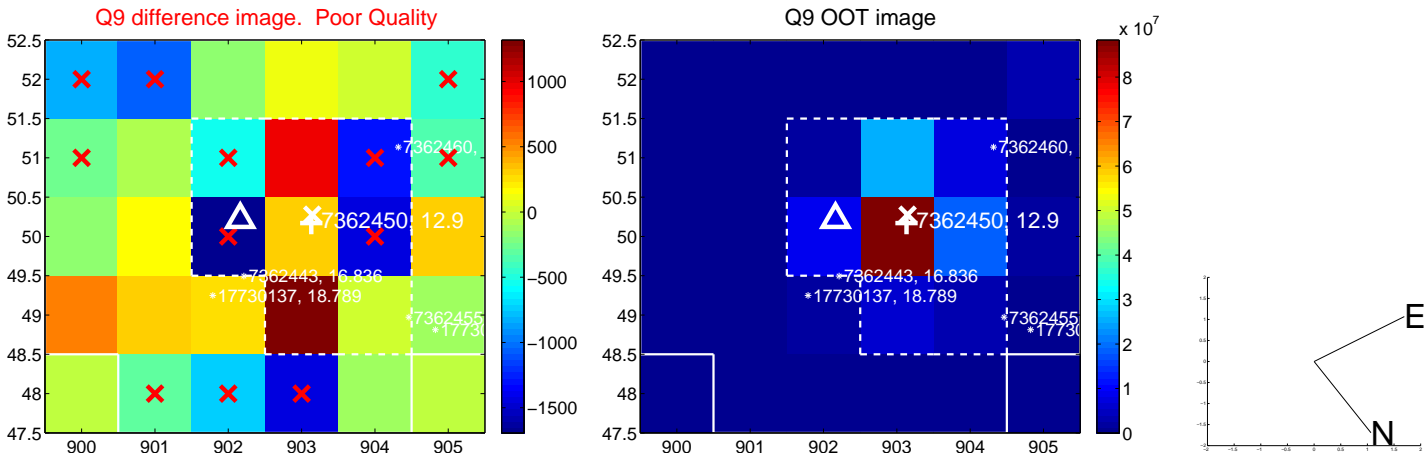
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



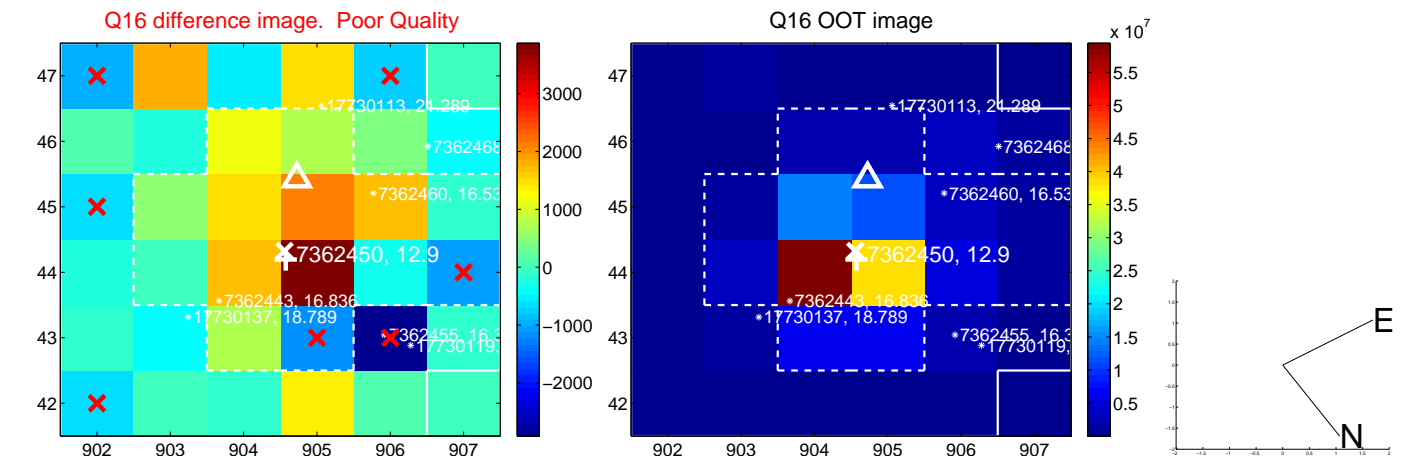
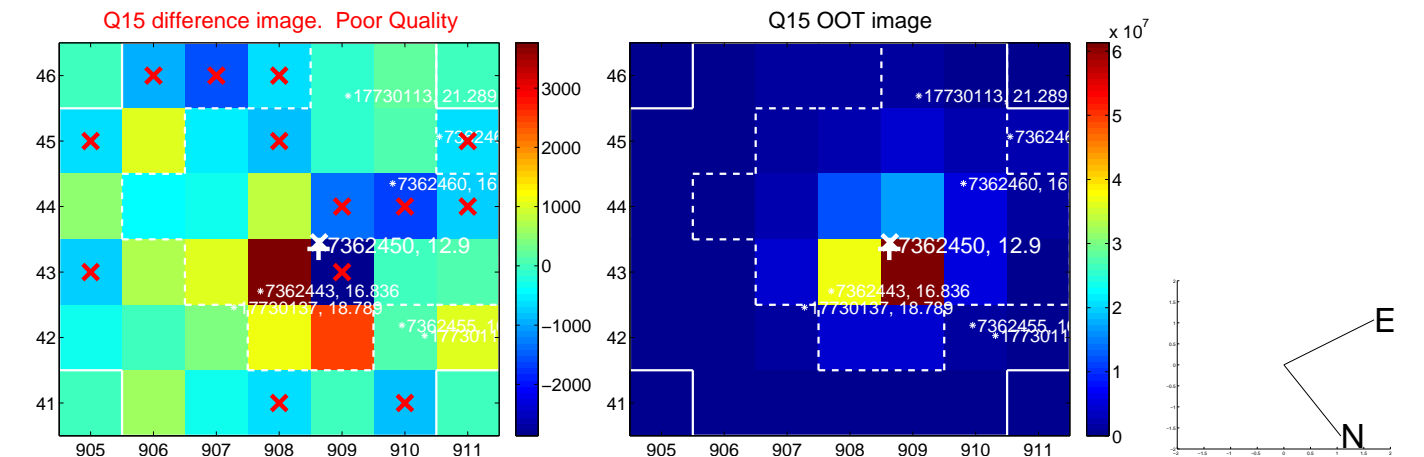
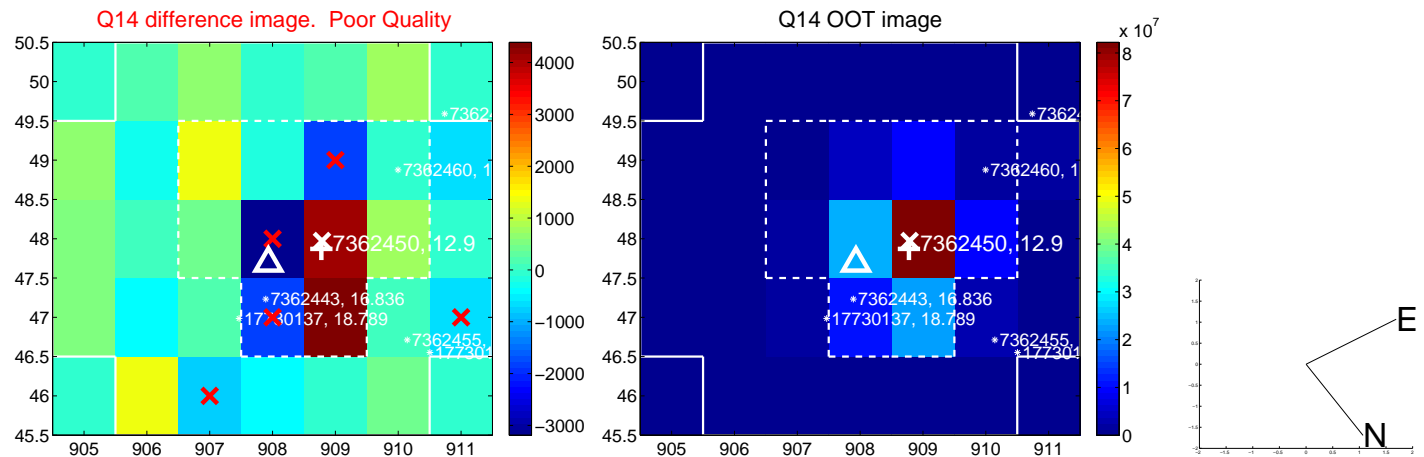
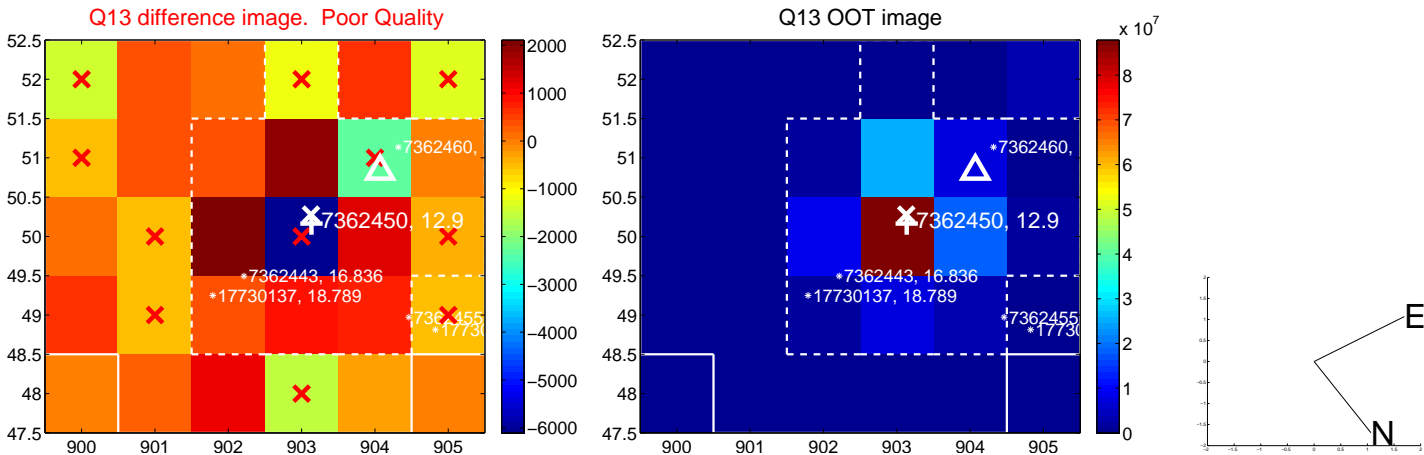
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



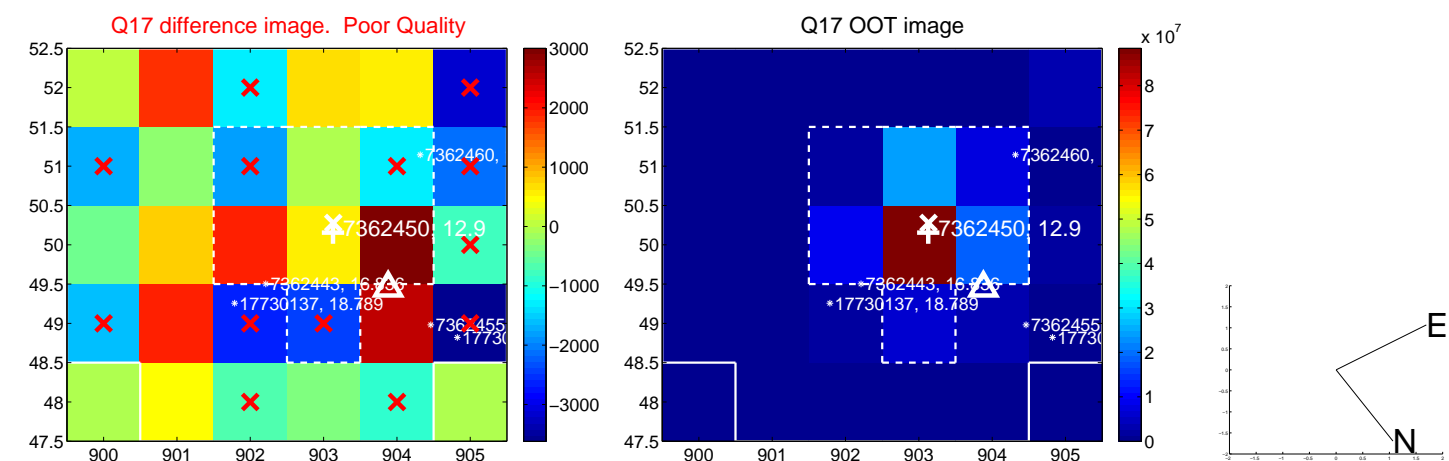
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



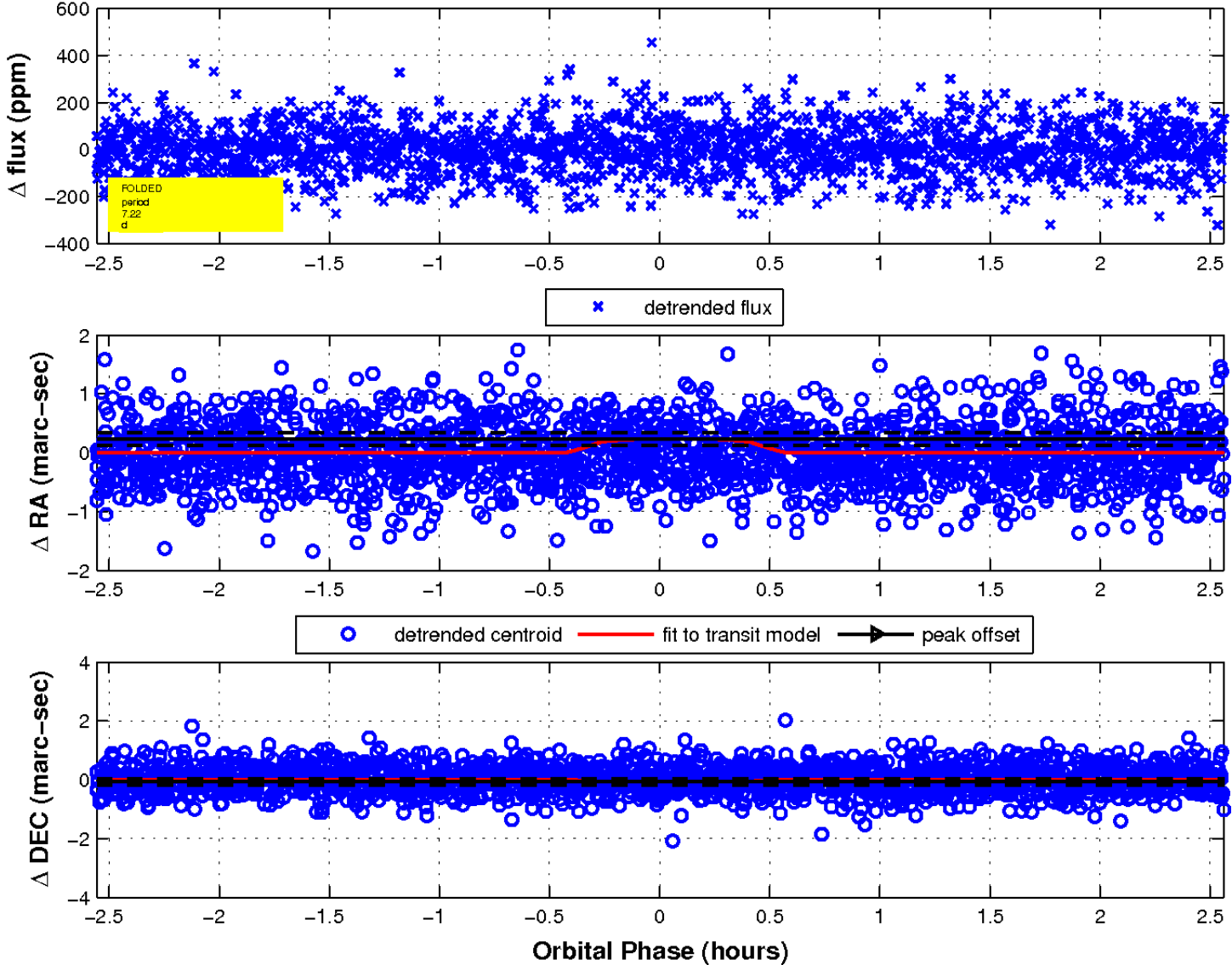
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

