

KIC 008264708

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})
008264708-01	OBS	No	2.314758	132.306826	41.8	9.948	8.8	8.2	1.70	7666	1.29	5205.57
008264708-02	OBS	No	199.851119	257.218504	520.3	4.092	15.3	5.9	1.70	7666	4.36	13.64
008264708-03	OBS	No	0.769926	132.167085	49.7	2.286	8.6	7.4	1.70	7666	1.39	22587.97
008264708-04	OBS	No	245.578938	211.935546	351.8	9.850	9.8	6.2	1.70	7666	3.47	10.37
008264708-05	OBS	No	183.807534	132.904901	661.5	4.794	7.3	6.5	1.70	7666	4.88	15.25

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264708-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—CENT_UNRESOLVED_OFFSET
008264708-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
008264708-03	OBS	FP	0.00	1	0	1	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET
008264708-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008264708-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_KIC_POS

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

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

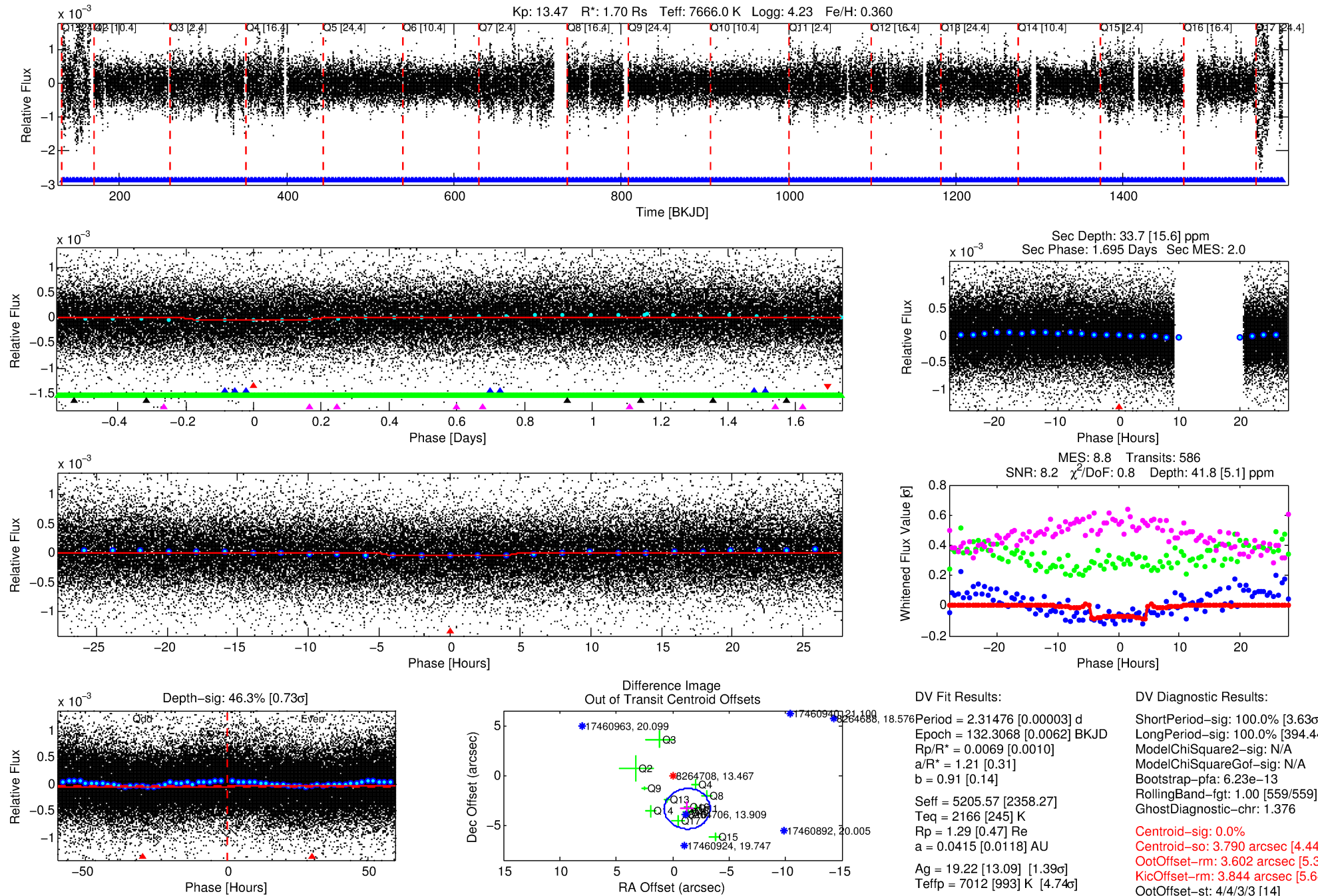
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264708-01

No Significant Match Found

DV One-Page Summary

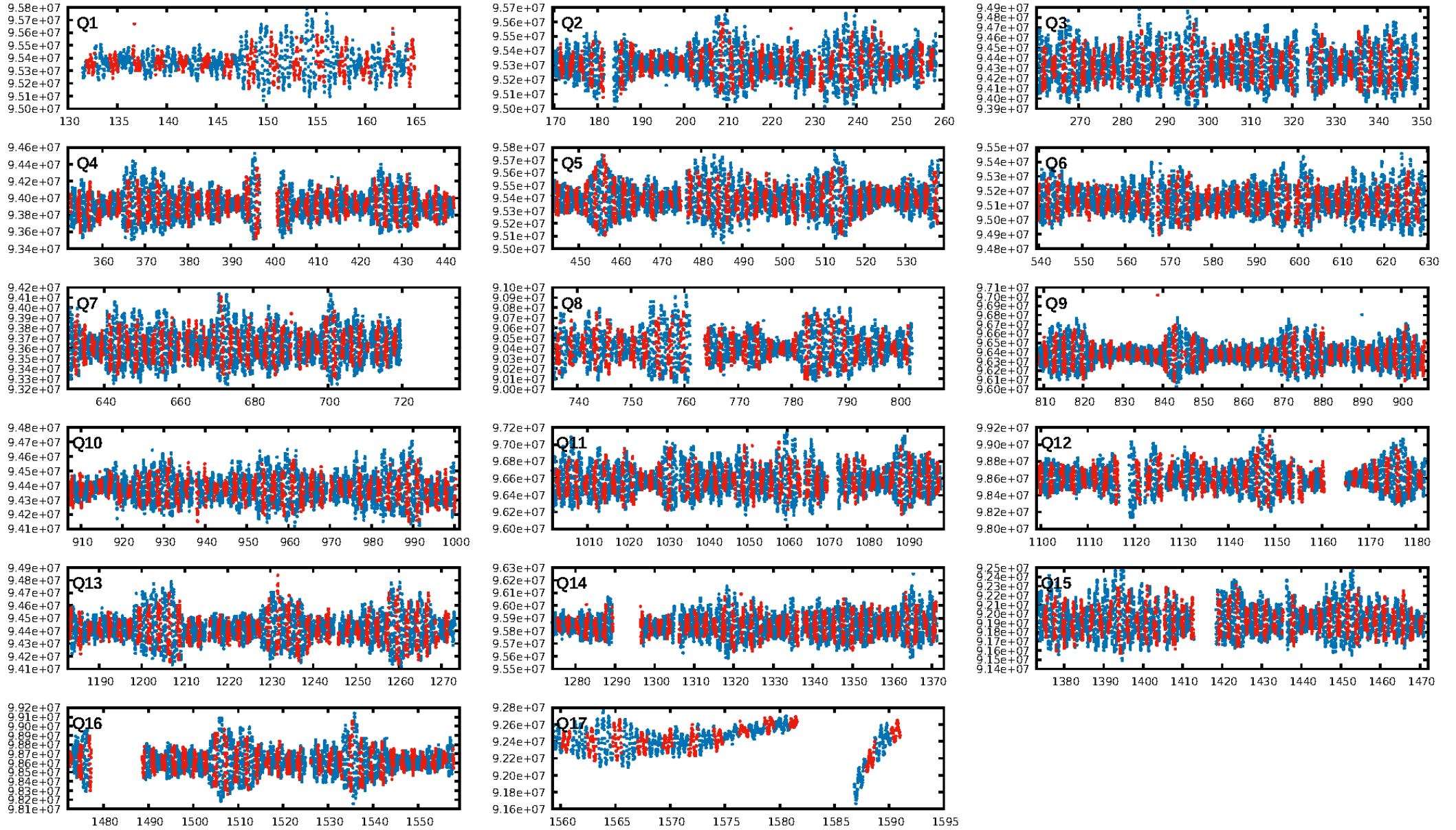
KIC: 8264708 Candidate: 1 of 5 Period: 2.315 d



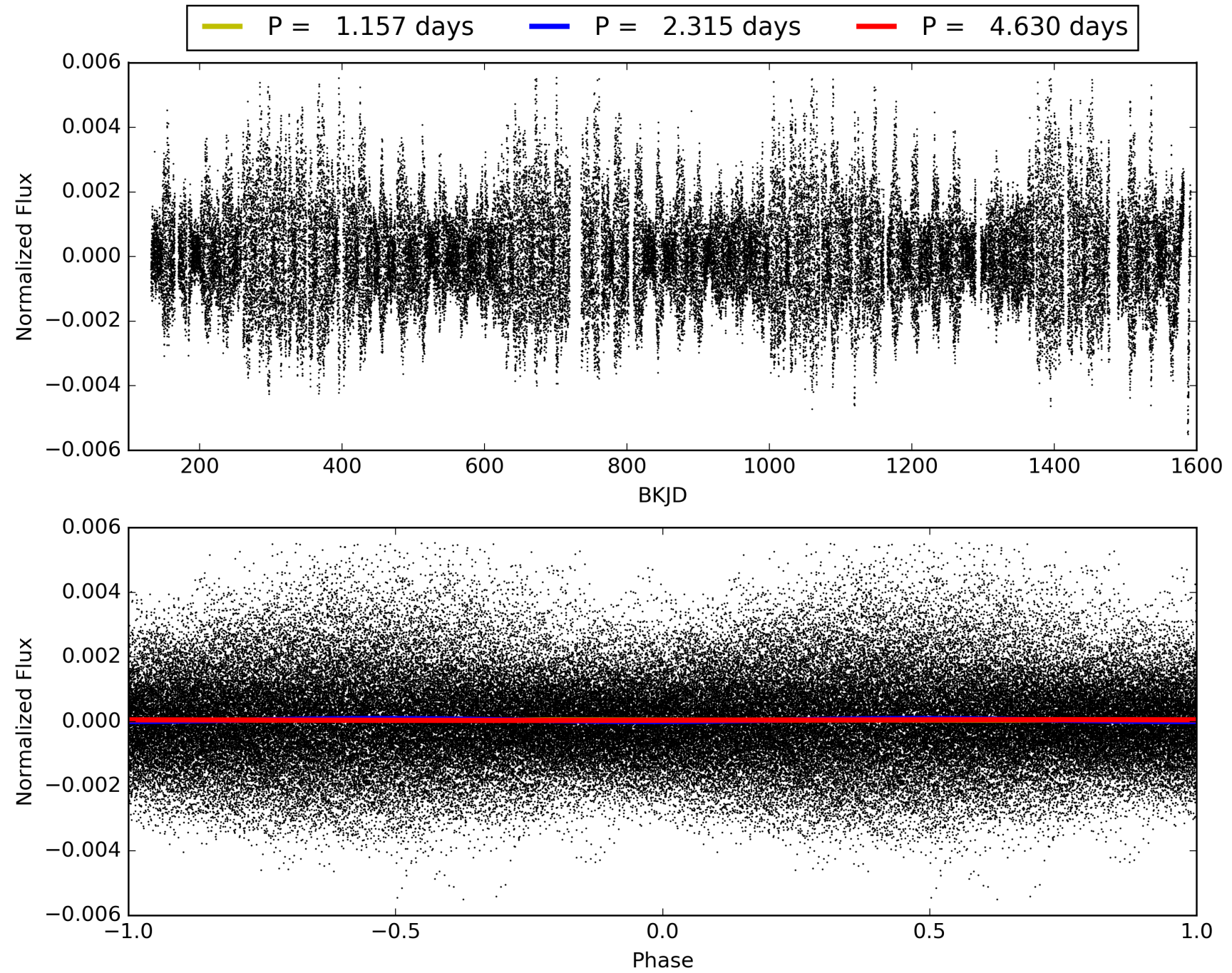
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 15:54:23 Z

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

TCE 008264708-01, PDC Light Curves

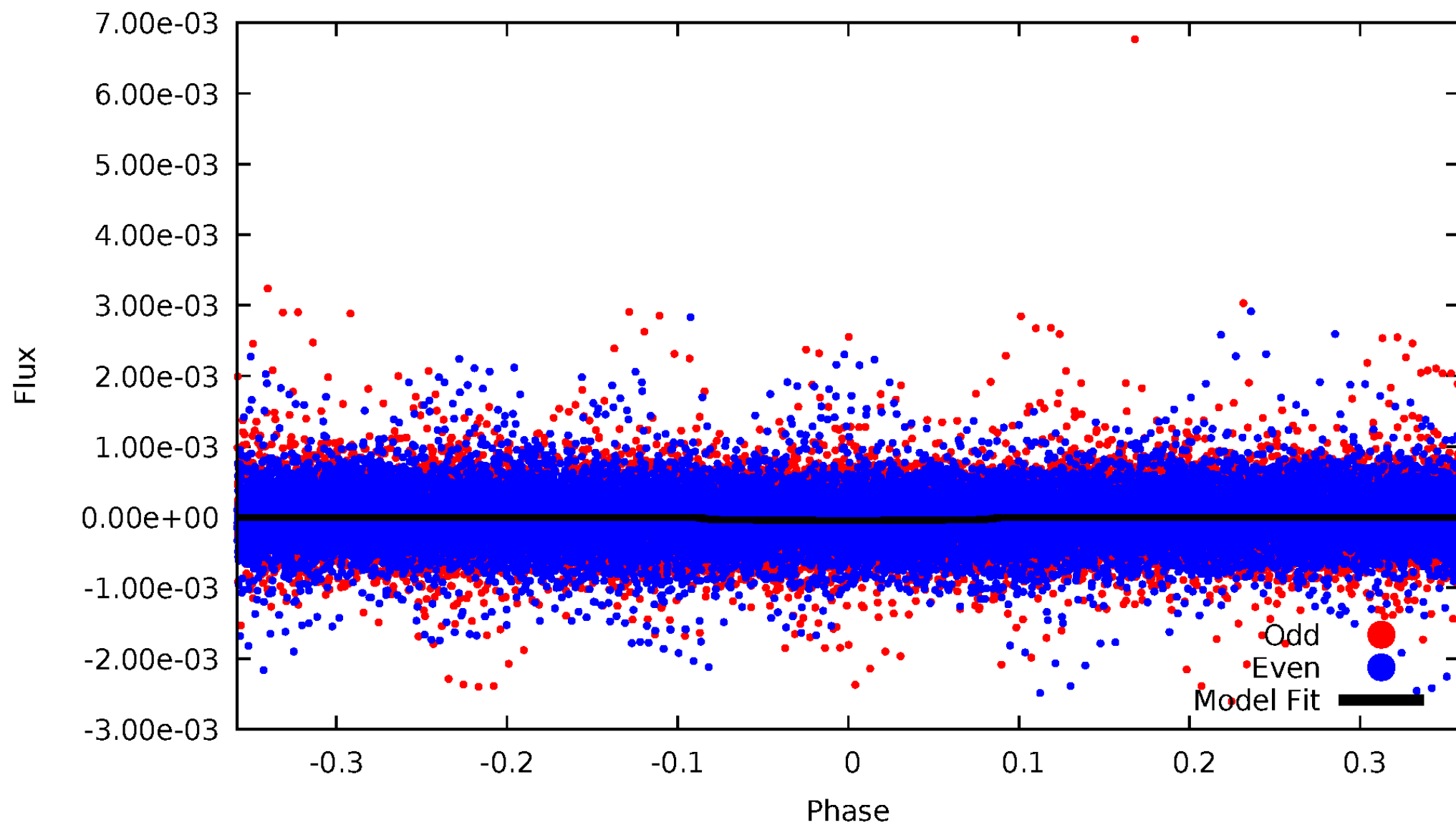


TCE 008264708-01



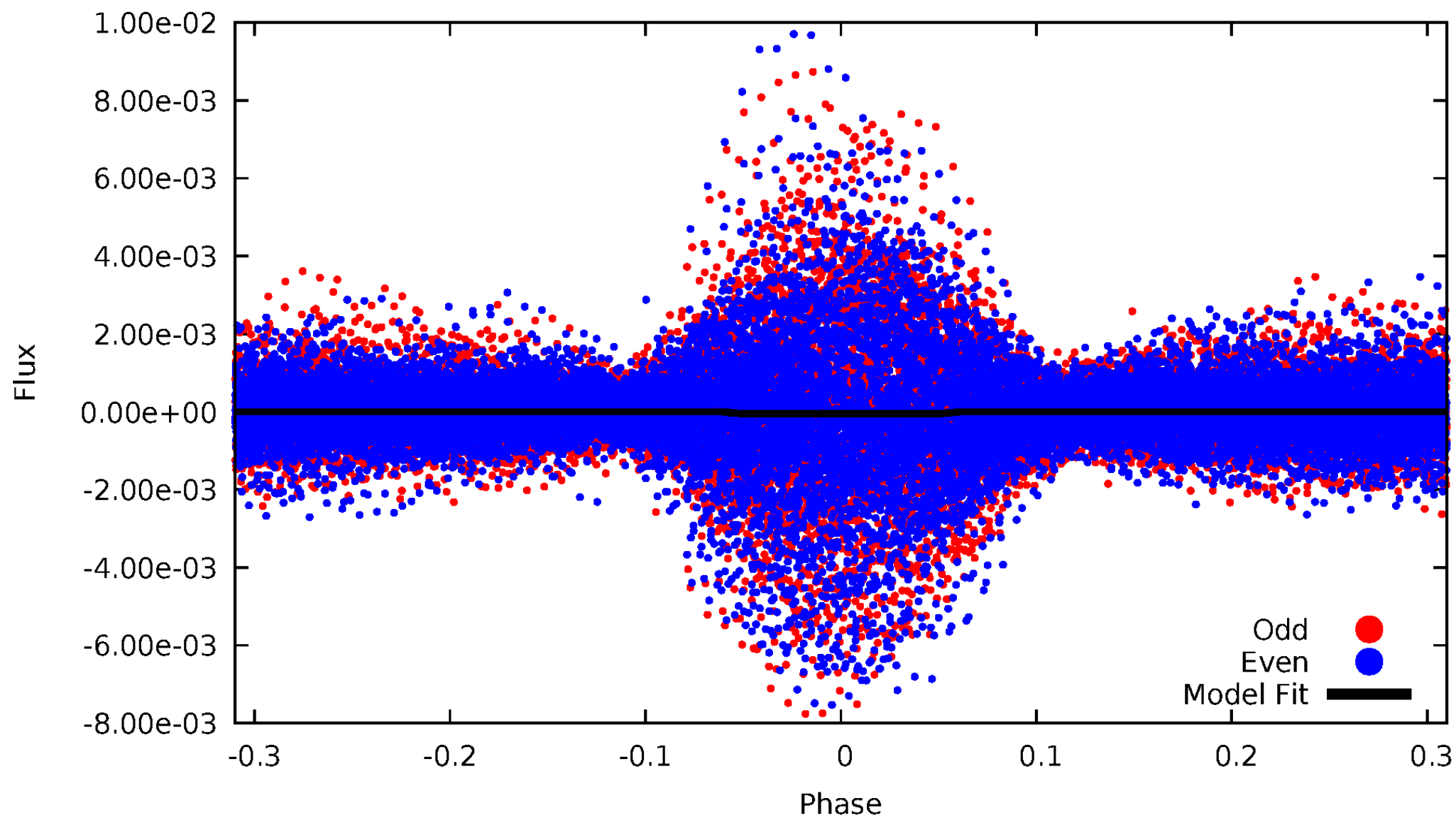
DV Odd/Even

TCE 008264708-01



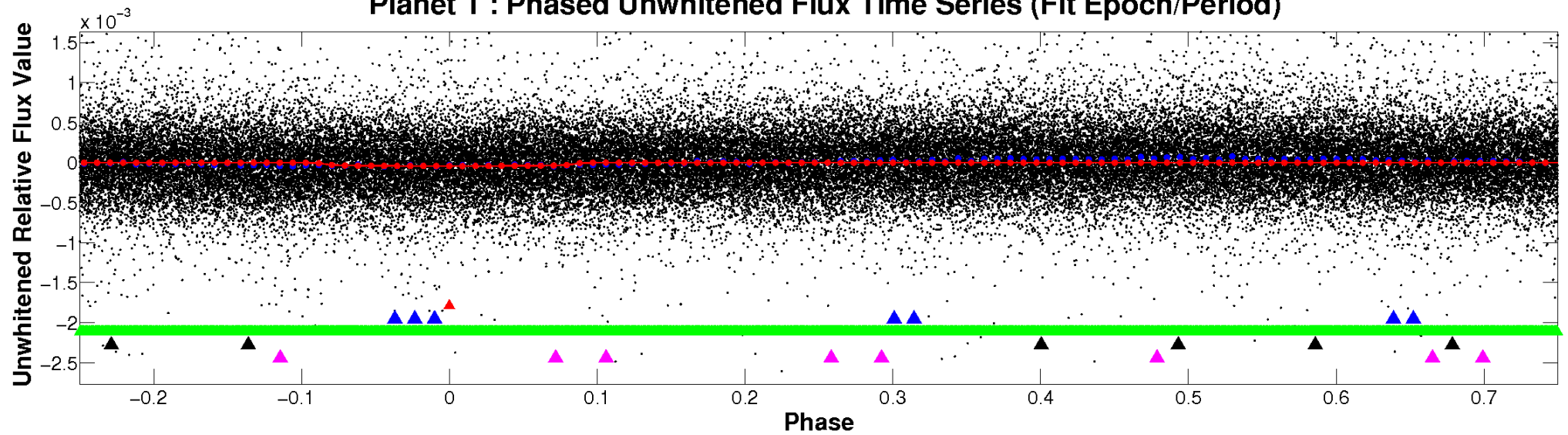
ALT Odd/Even

TCE 008264708-01

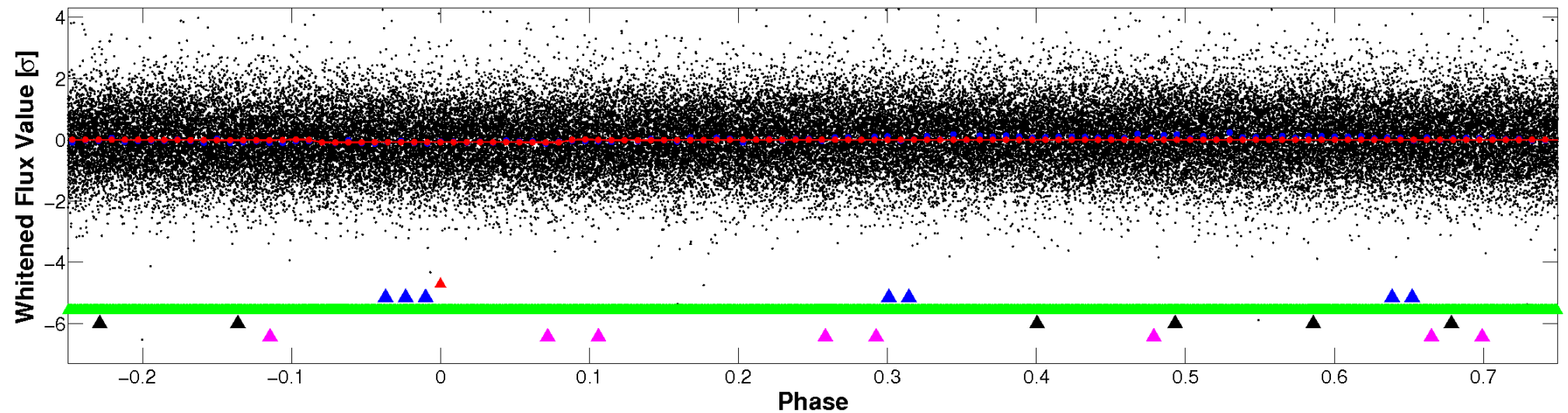


Non-Whitened Vs. Whitened Light Curve

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

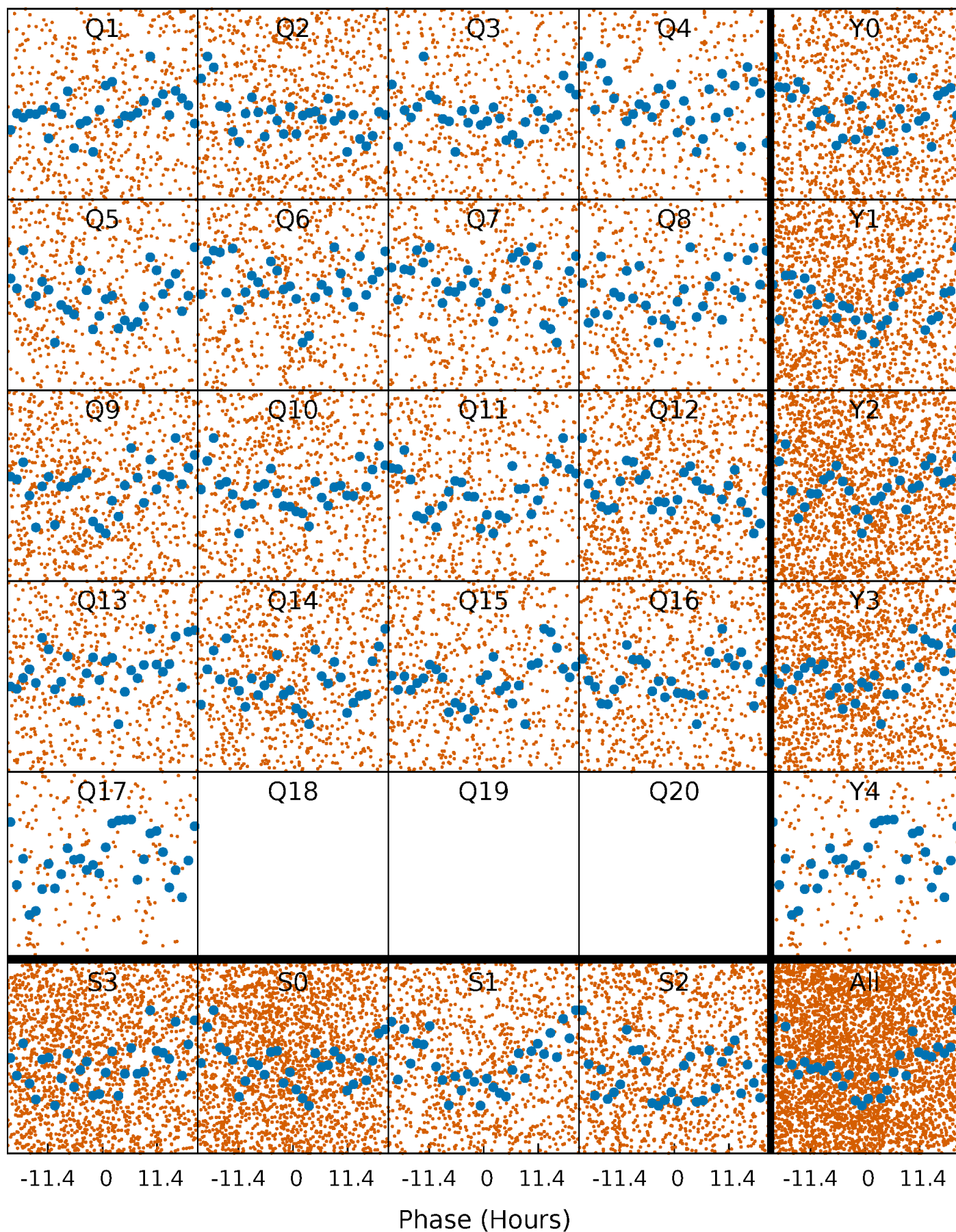


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



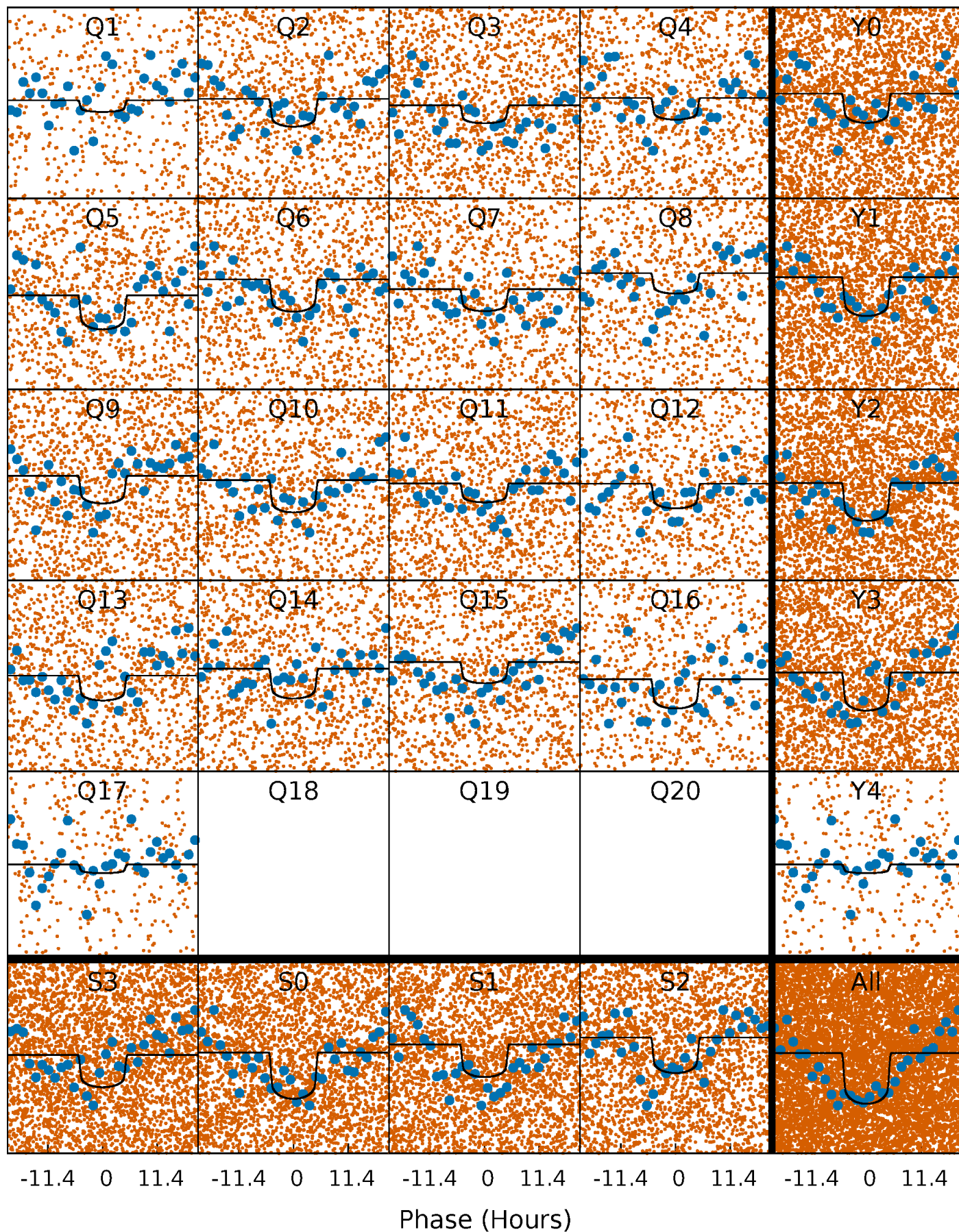
PDC Quarter-Phased Transit Curves

TCE 008264708-01 P= 2.314758 Days $T_0=132.306826$ (BKJD)



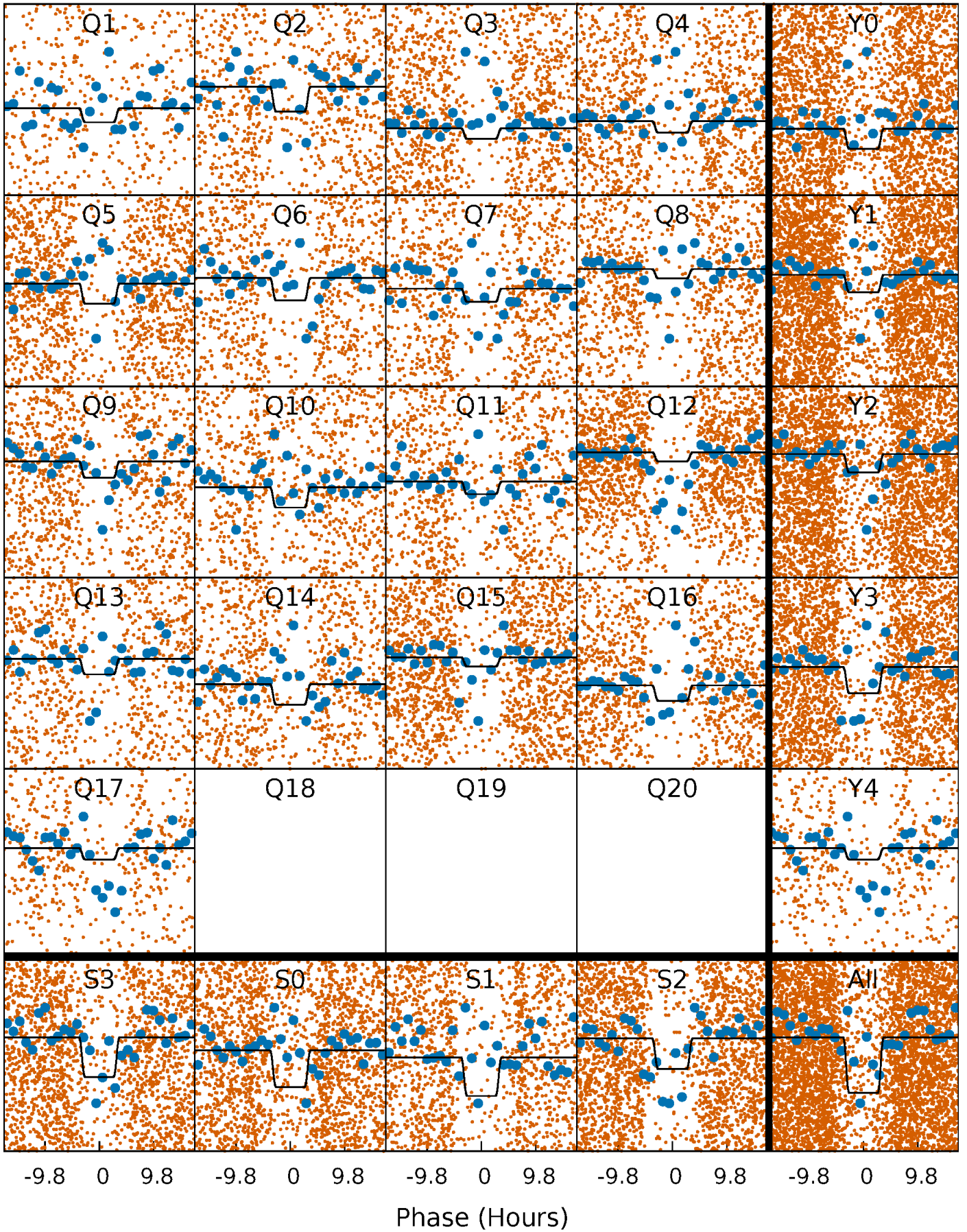
DV Quarter-Phased Transit Curves

TCE 008264708-01 P= 2.314758 Days $T_0=132.306826$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

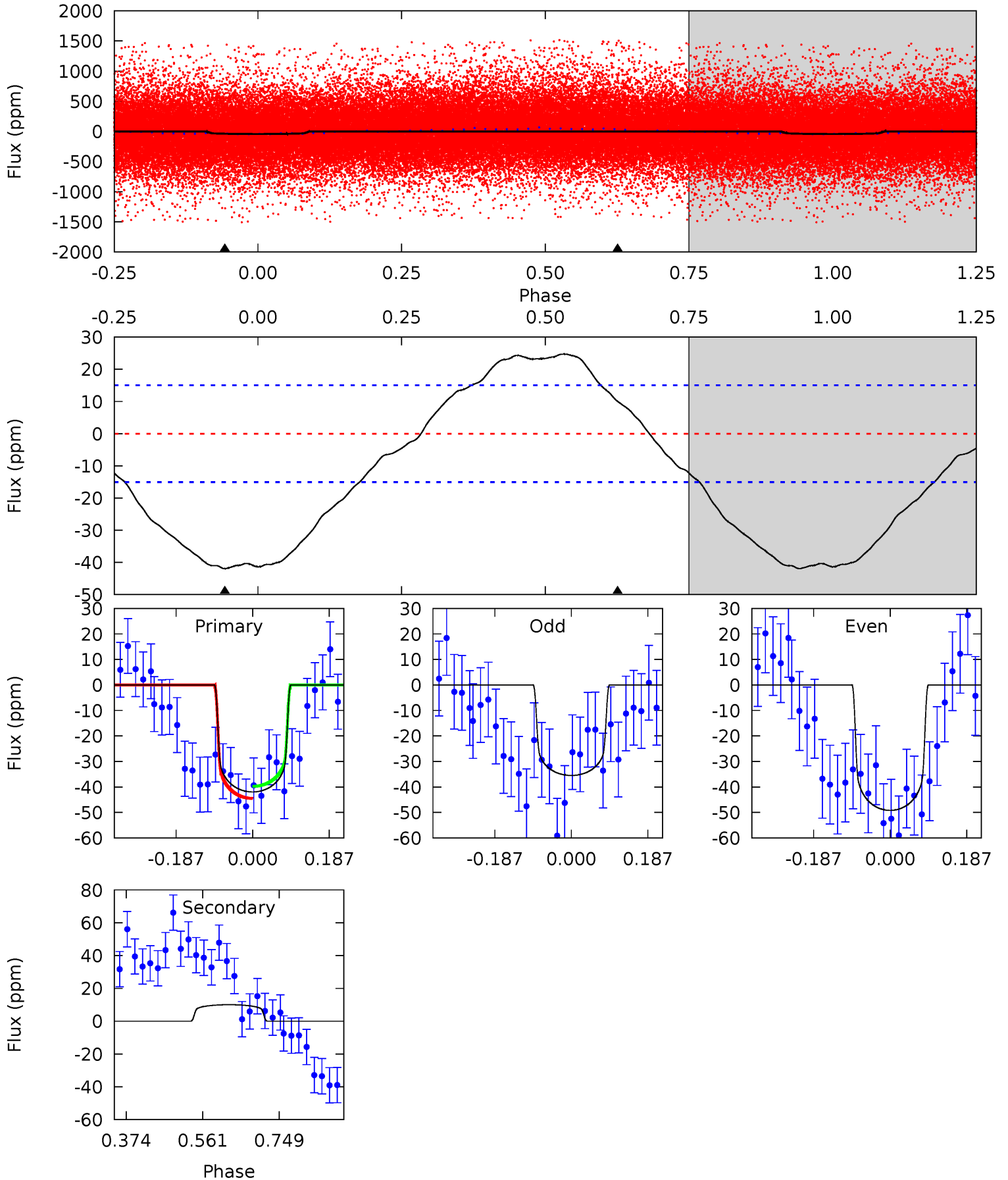
TCE 008264708-01 P= 2.314522 Days $T_0=132.324348$ (BKJD)



DV Model-Shift Uniqueness Test

008264708-01, P = 2.314758 Days, E = 129.992068 Days

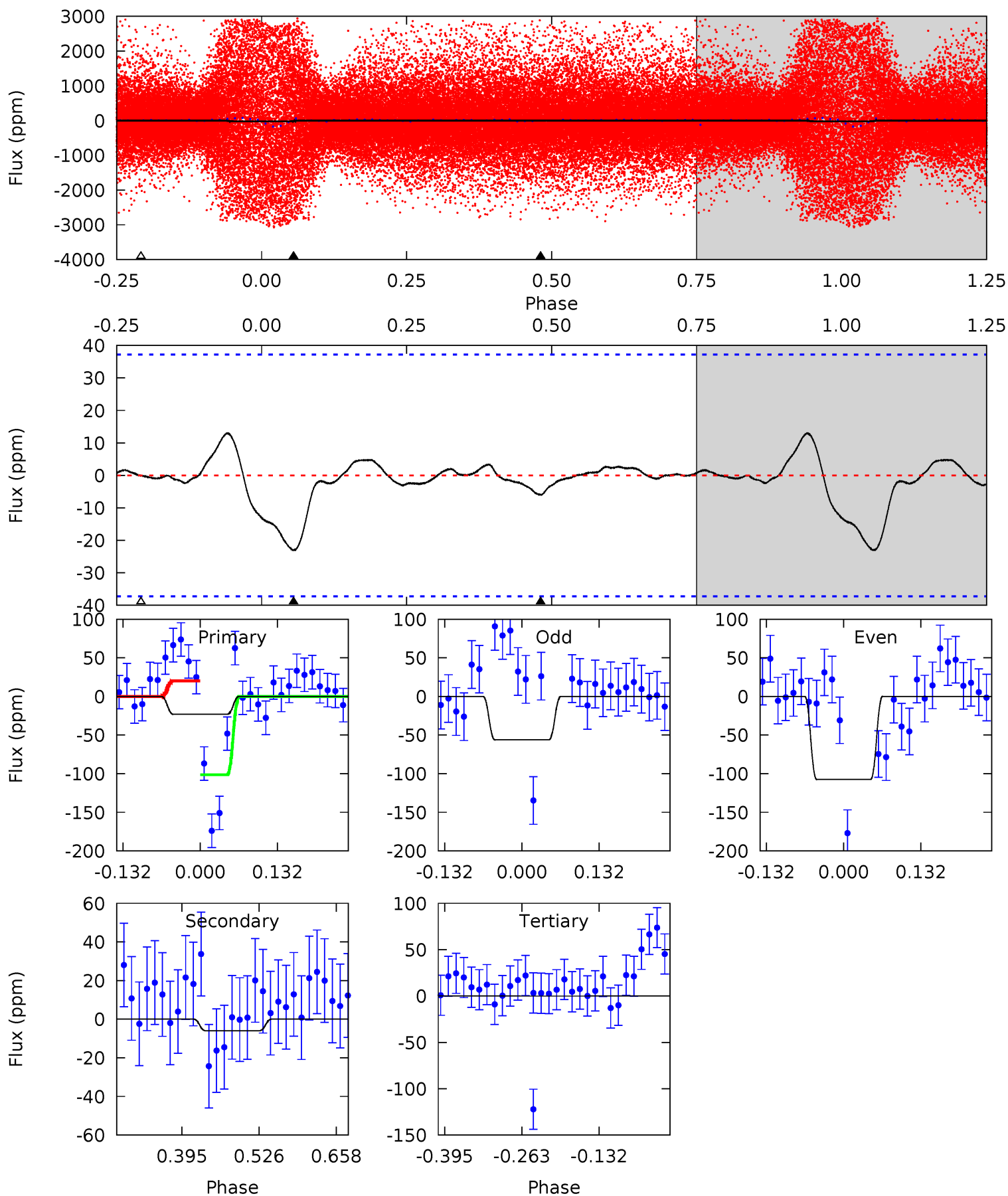
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.3	-2.95	0	0	4.43	1.32	4.06	12.3	12.3	-2.95	-2.95	2.01	0.97	0.37	0.70



Alt Model-Shift Uniqueness Test

008264708-01, P = 2.314522 Days, E = 130.009826 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.79	0.72	0	0	4.51	1.51	0.24	2.79	2.79	0.72	0.72	2.94	2.01	0.36	0



Stellar Parameters For KIC 008264708

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	7666^{+216}_{-339}	$4.226^{+0.054}_{-0.229}$	$0.360^{+0.050}_{-0.500}$	$1.702^{+0.573}_{-0.191}$	$1.779^{+0.189}_{-0.231}$	$0.508^{+0.147}_{-0.283}$
	+3%/-4%	+1%/-5%	+14%/-139%	+34%/-11%	+11%/-13%	+29%/-56%
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 008264708-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	10 ± 3	$1.37^{+0.25}_{-0.22}$	3090^{+235}_{-160}	-5196^{+515}_{-476}	$-5.011^{+2.093}_{-2.858}$
Alt.	-6 ± 8	$1.42^{+0.27}_{-0.23}$	3085^{+237}_{-172}	4426^{+1033}_{-8245}	$2.711^{+4.426}_{-3.460}$

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 $A_{obs} \gg 1.0$

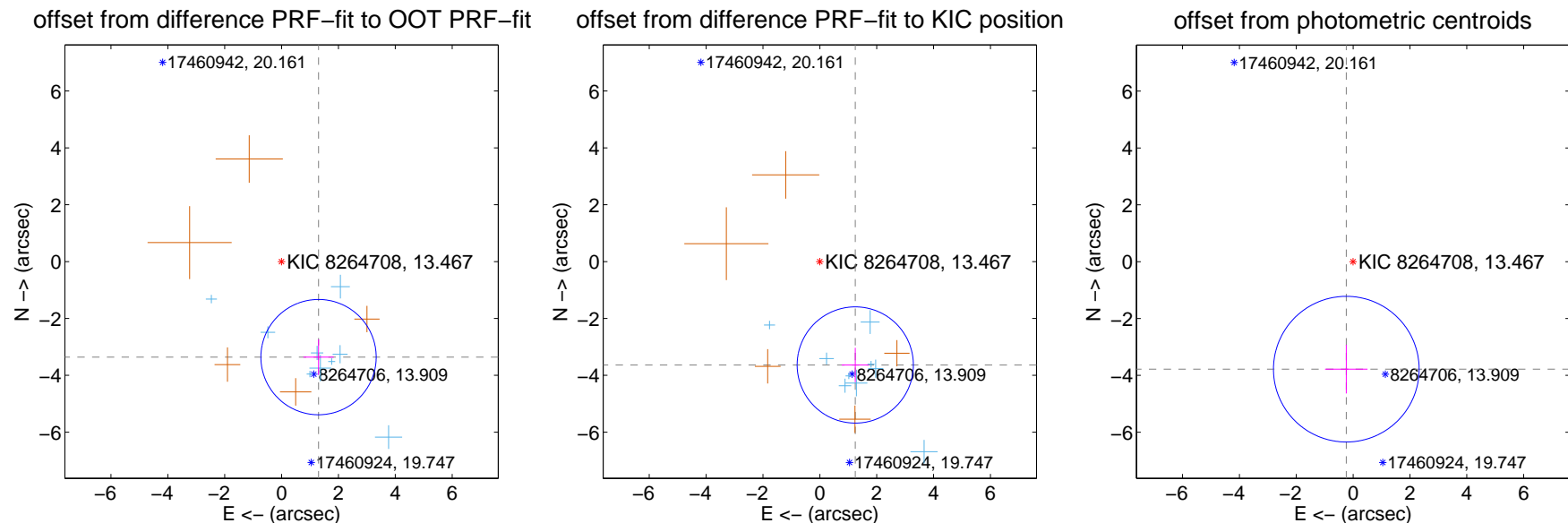
DV Centroid Data

Supplemental centroid analysis for 008264708-01. Kepler magnitude: 13.47. Transit SNR 8.24

There are 9 quarters with good PRF difference image offsets

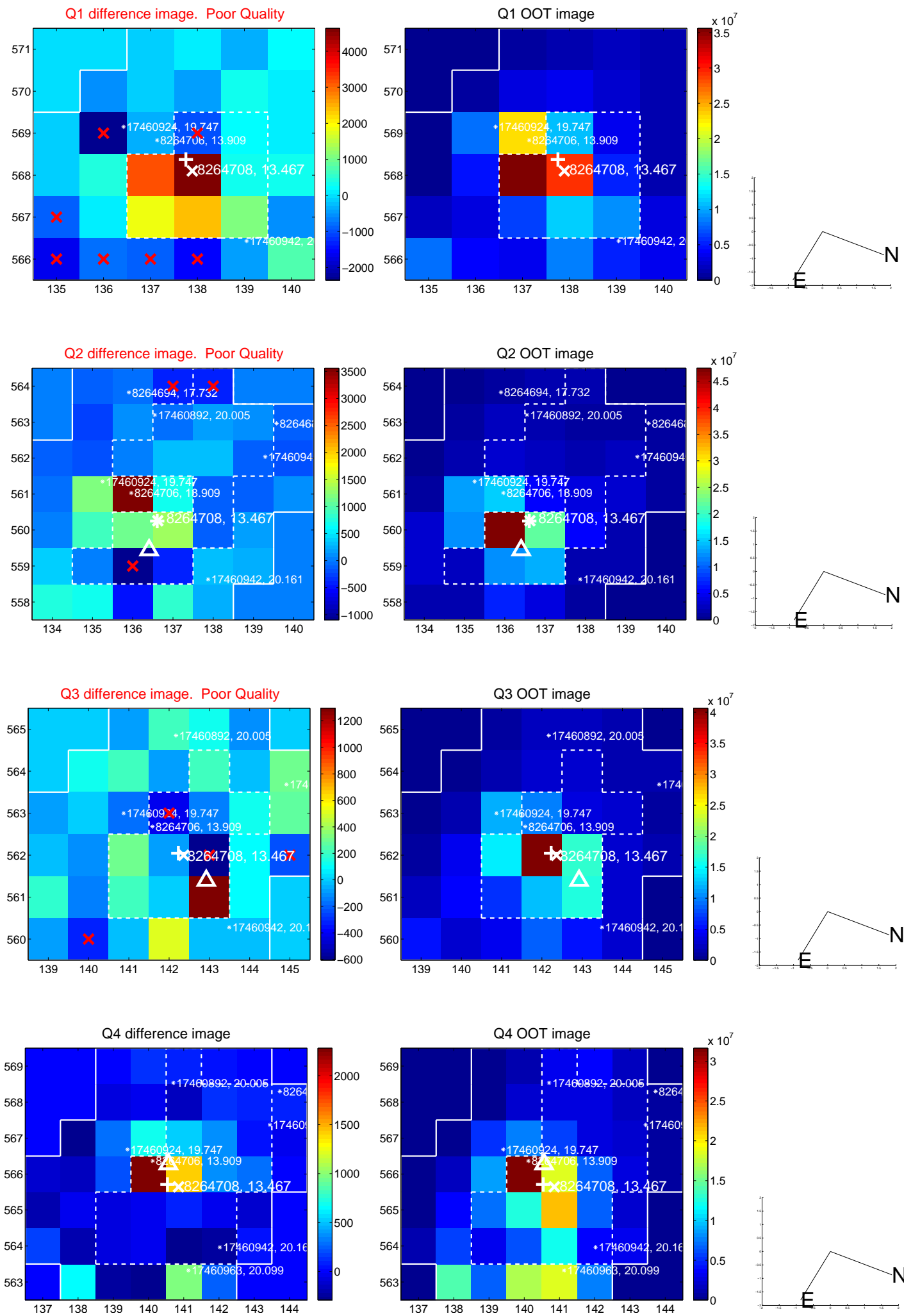
The direct PRF centroid is offset from the target star catalog position by about 1.21 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.602 ± 0.676	5.33	-1.300 ± 0.534	-3.360 ± 0.622
PRF-fit source offset from KIC position	3.844 ± 0.681	5.64	-1.246 ± 0.476	-3.637 ± 0.605
photometric centroid source offset	3.79 ± 0.85	4.44	0.24 ± 0.75	-3.78 ± 0.85

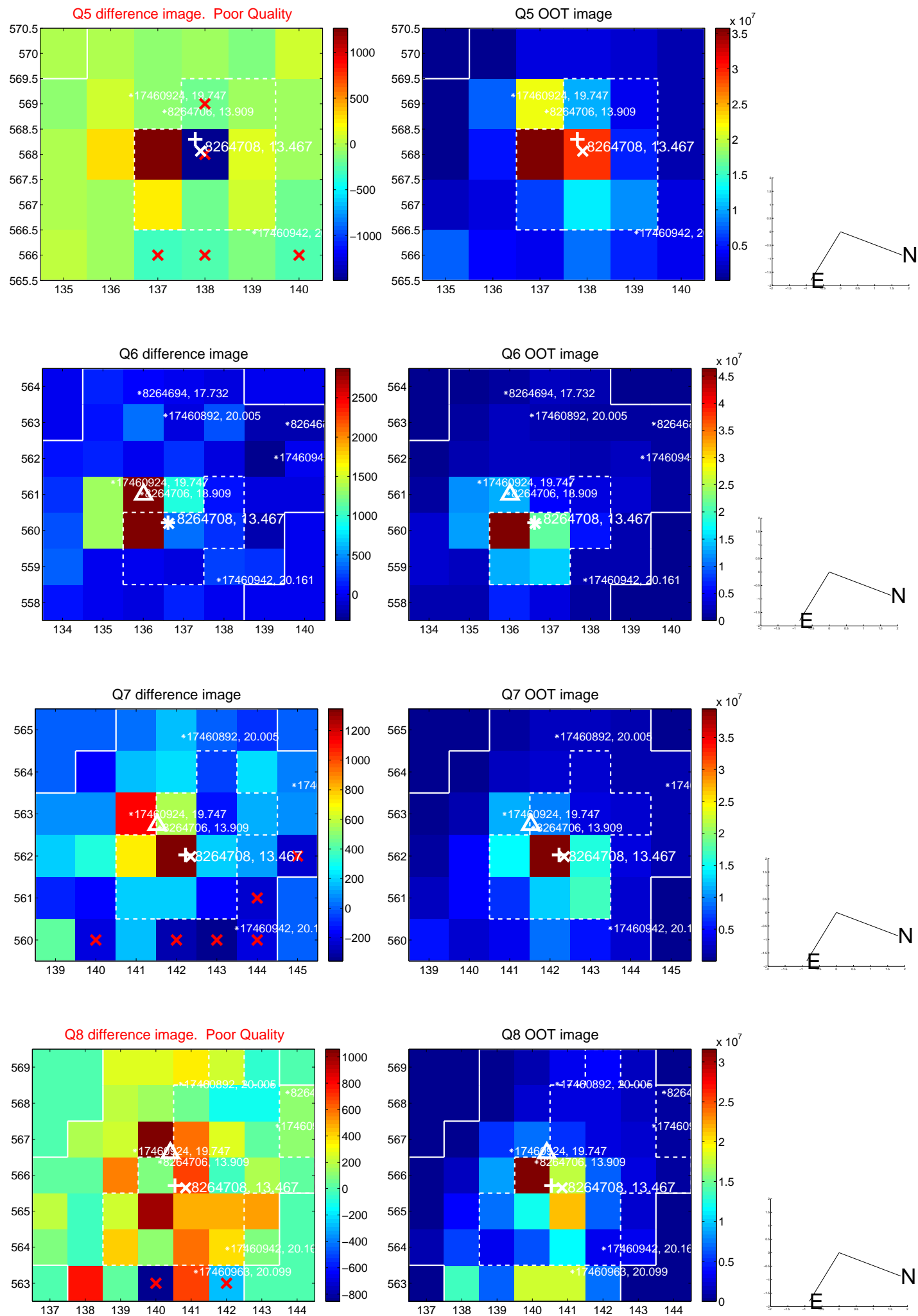


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

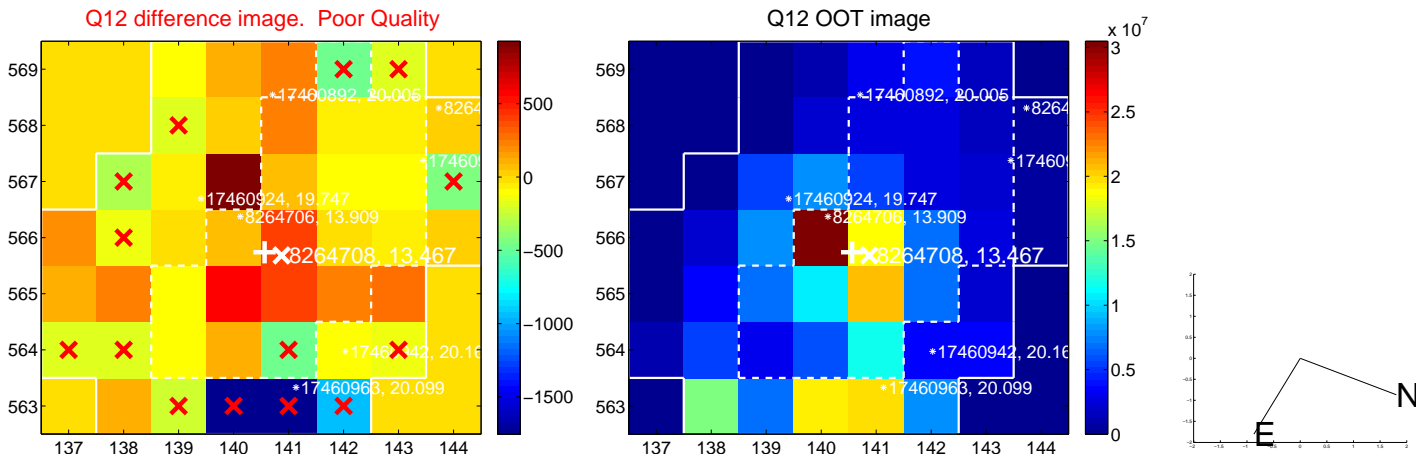
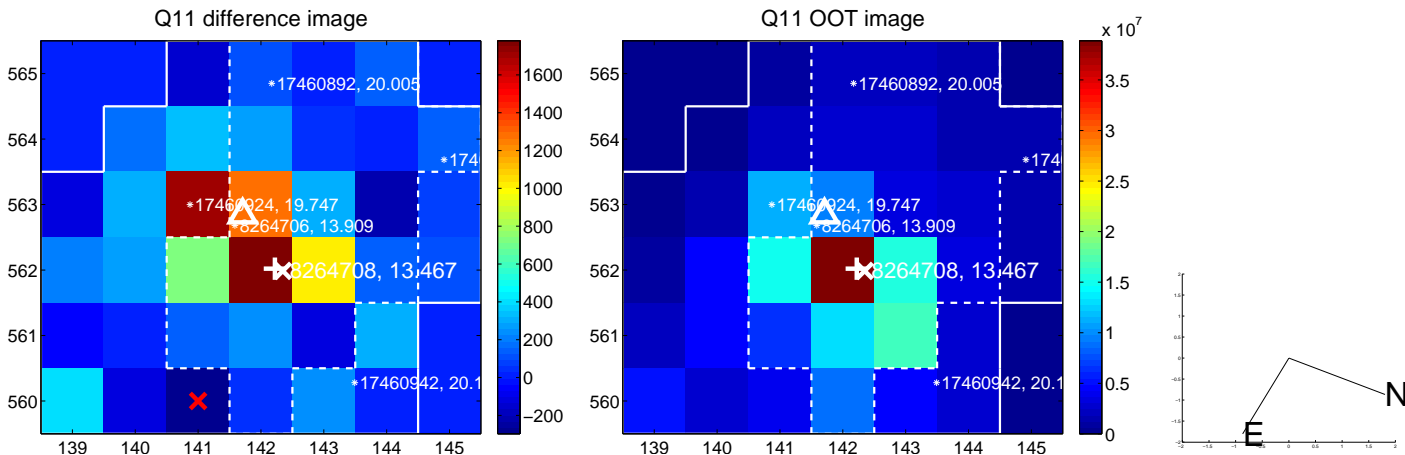
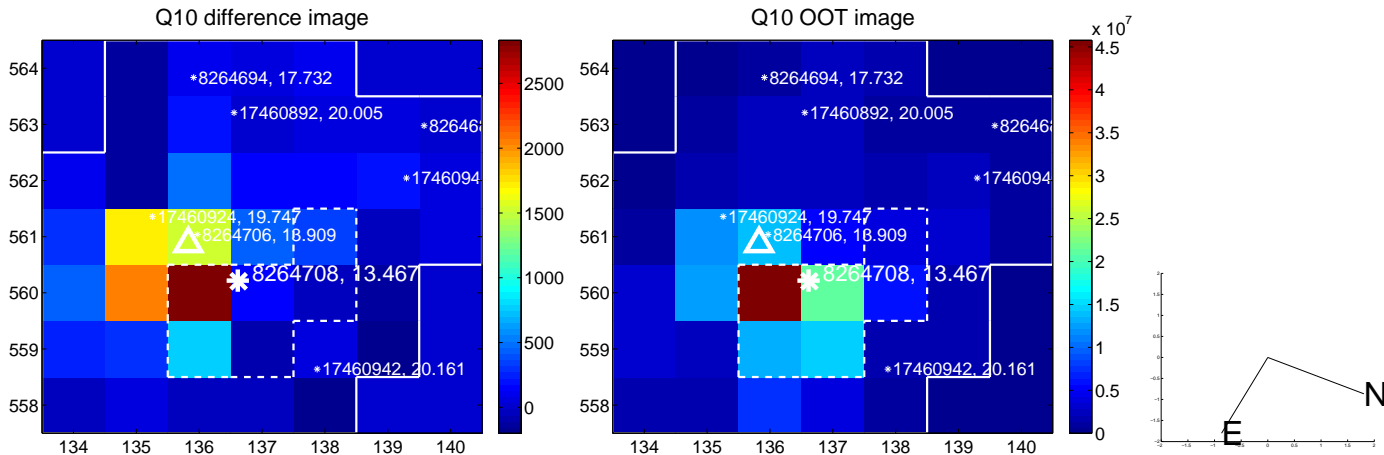
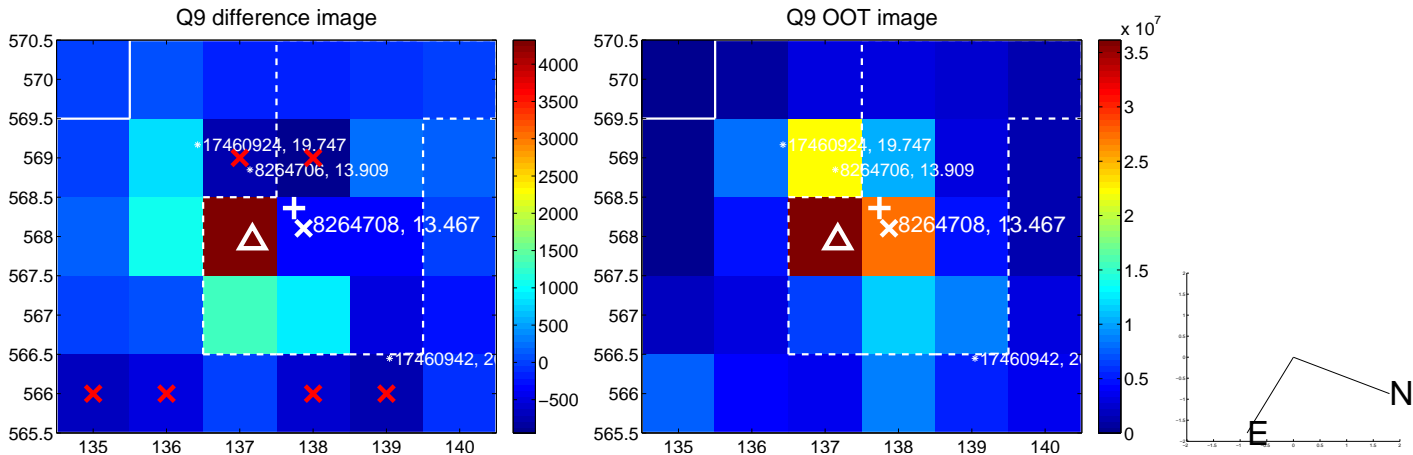
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



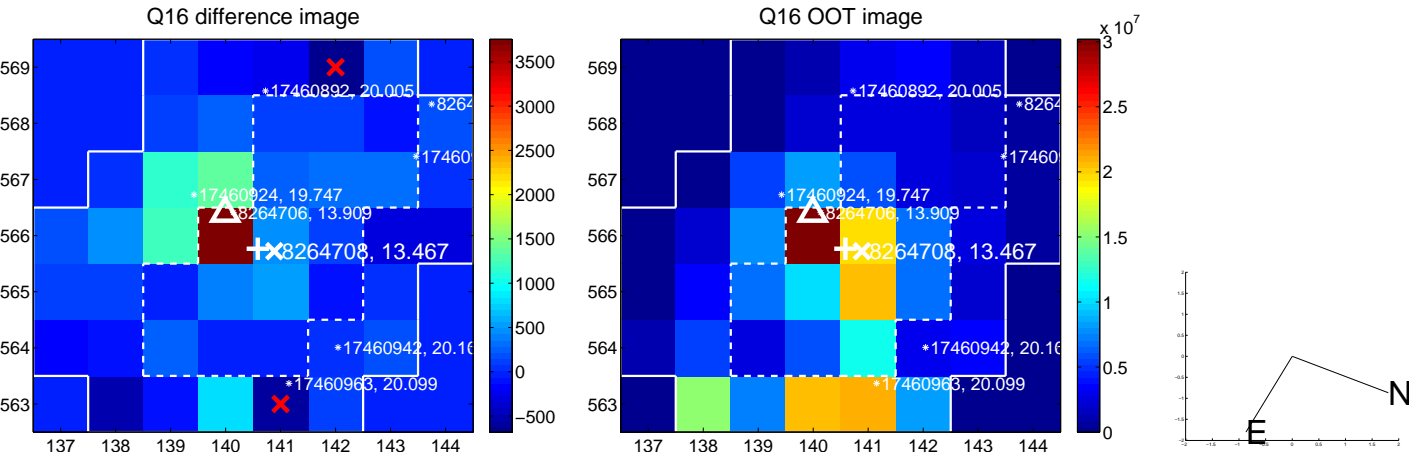
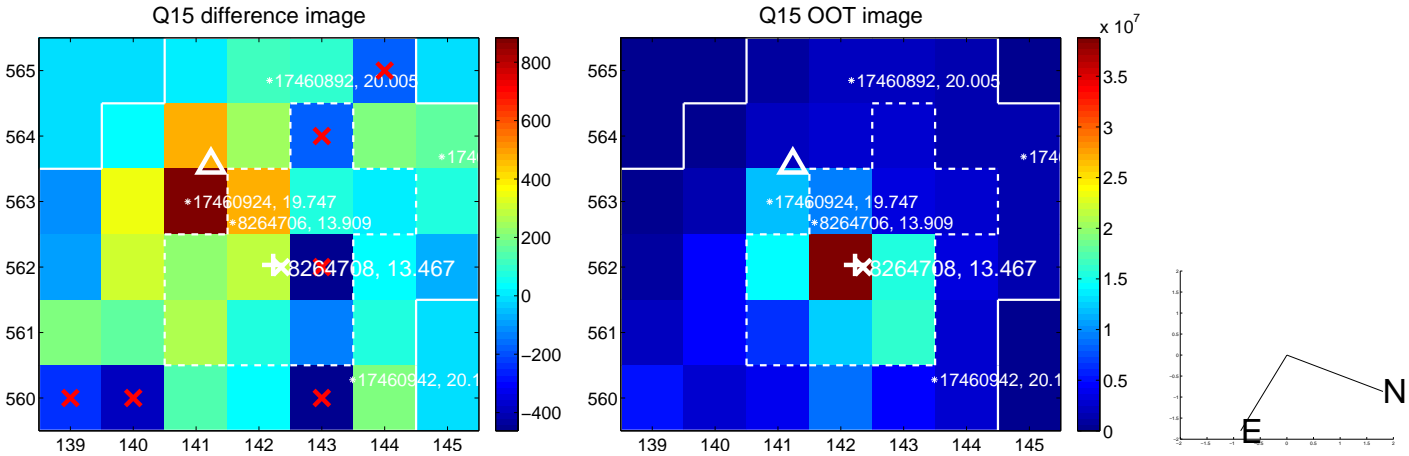
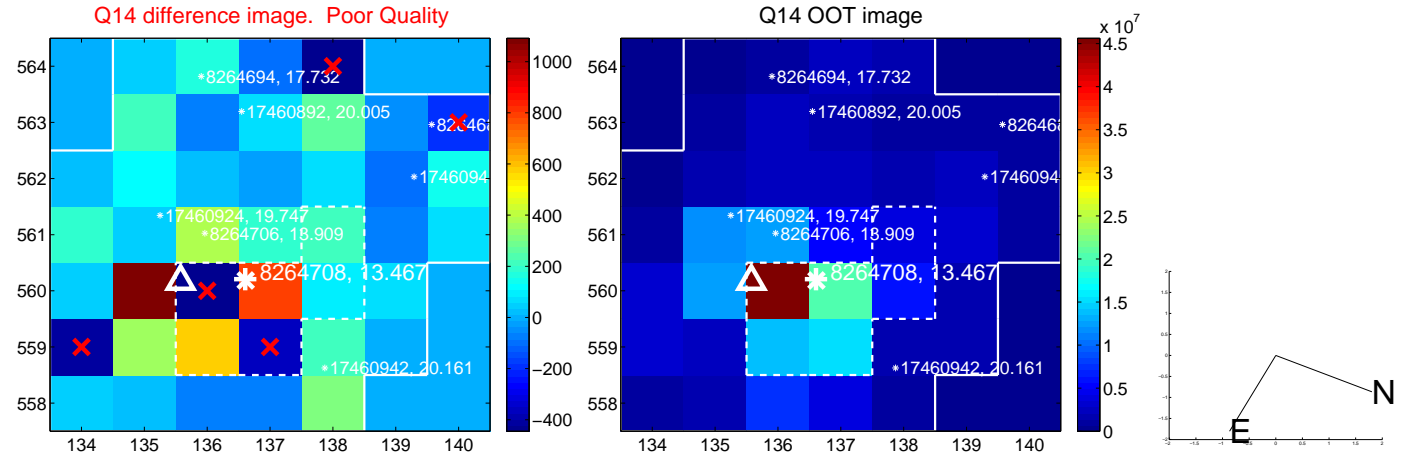
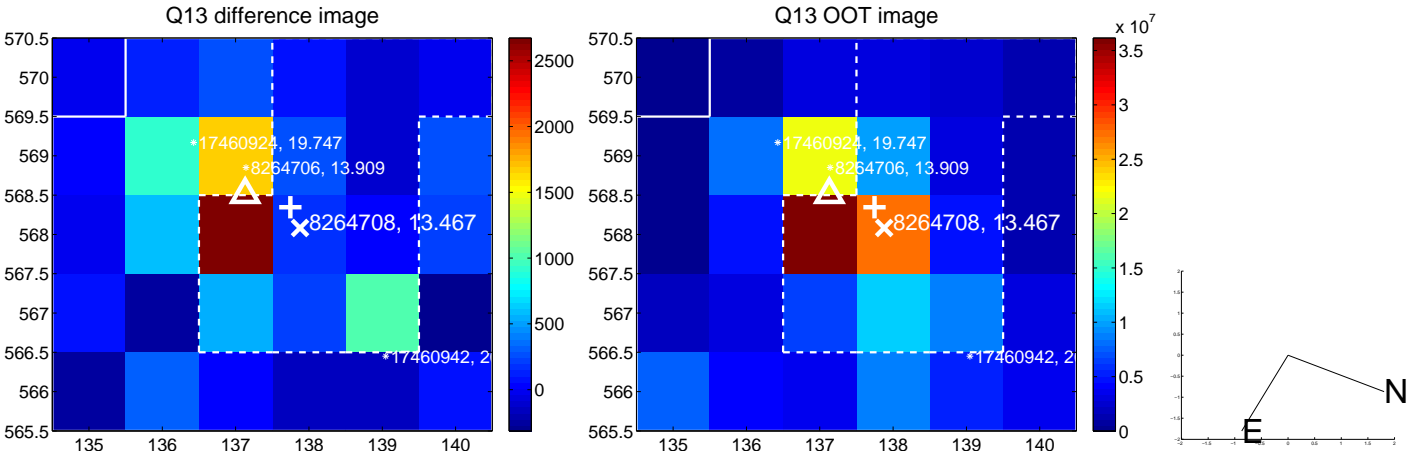
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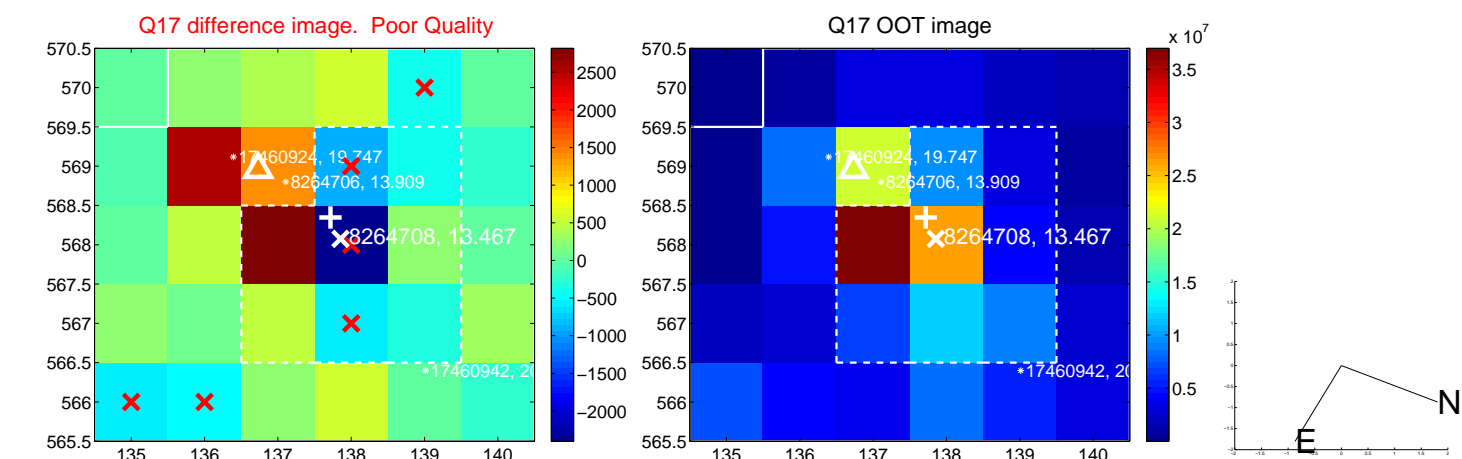
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



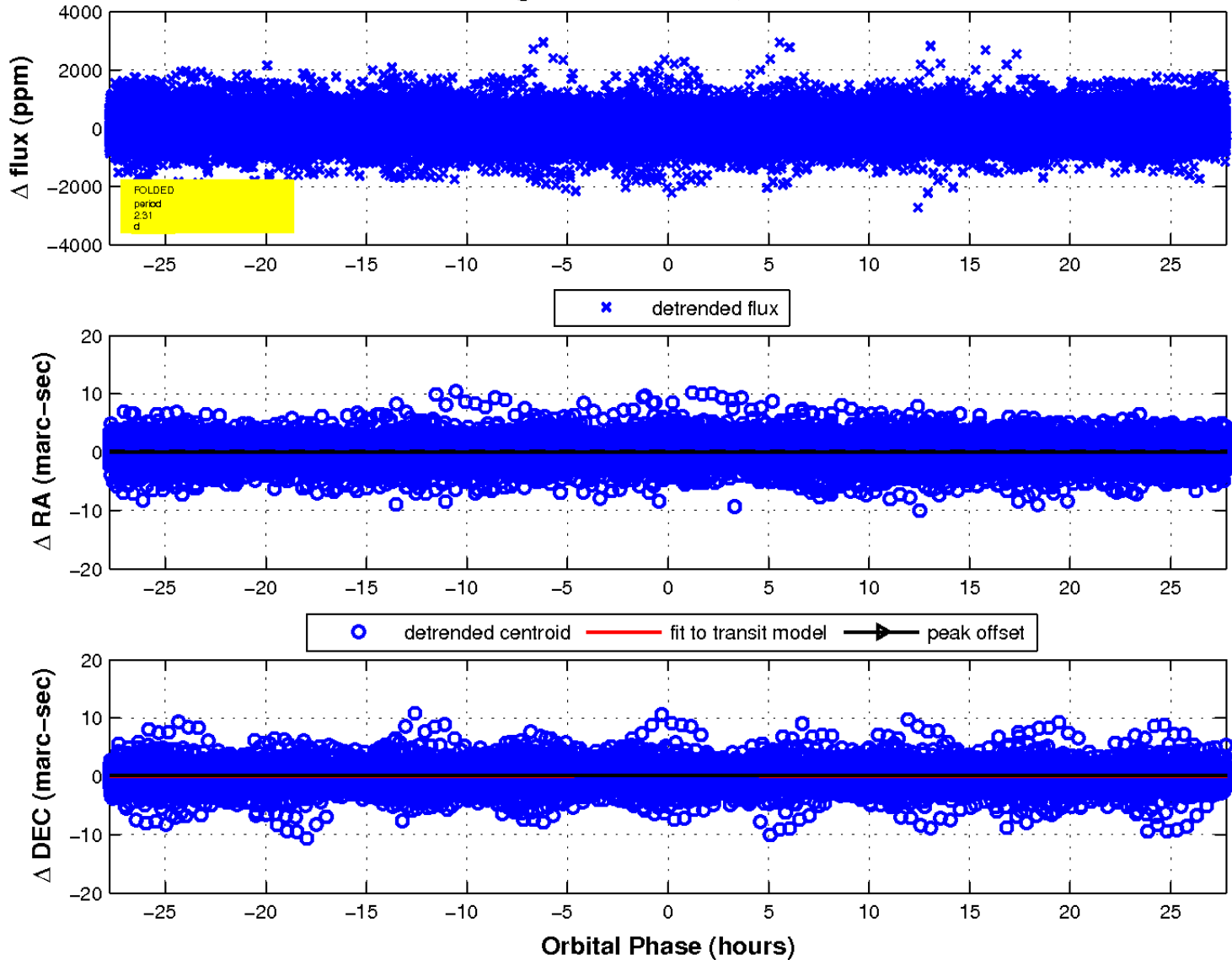
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



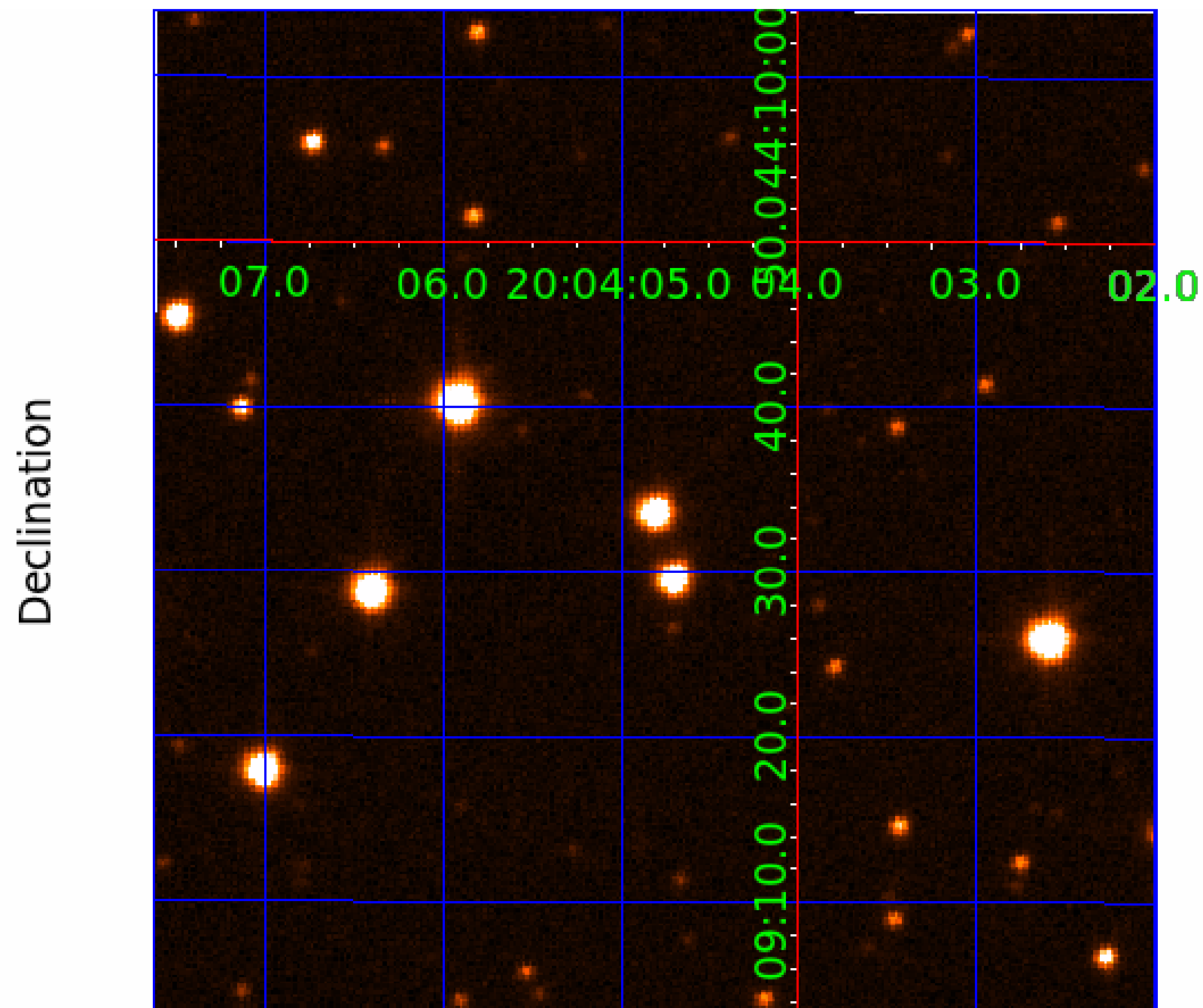
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 1 of 5



UKIRT Image



KIC 008264708

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})
008264708-01	OBS	No	2.314758	132.306826	41.8	9.948	8.8	8.2	1.70	7666	1.29	5205.57
008264708-02	OBS	No	199.851119	257.218504	520.3	4.092	15.3	5.9	1.70	7666	4.36	13.64
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008264708-04	OBS	No	245.578938	211.935546	351.8	9.850	9.8	6.2	1.70	7666	3.47	10.37
008264708-05	OBS	No	183.807534	132.904901	661.5	4.794	7.3	6.5	1.70	7666	4.88	15.25

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264708-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—CENT_UNRESOLVED_OFFSET
008264708-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
008264708-03	OBS	FP	0.00	1	0	1	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET
008264708-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008264708-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_KIC_POS

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

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

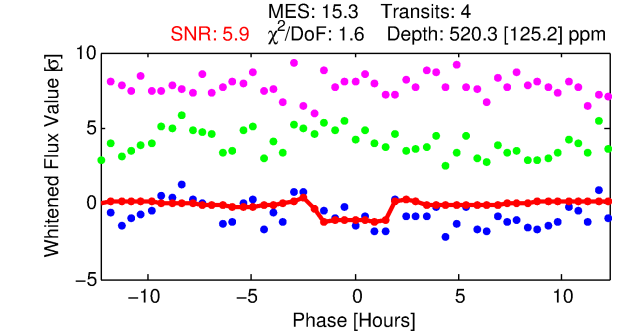
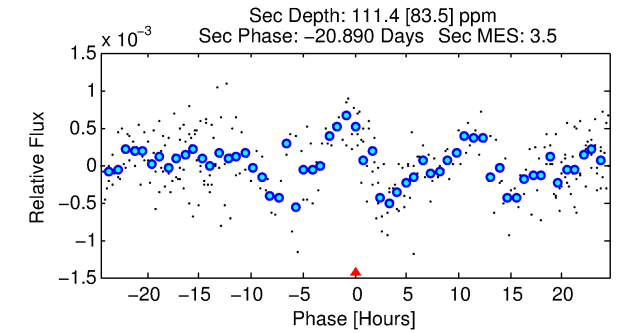
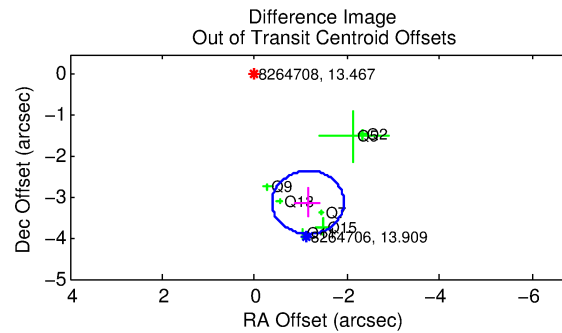
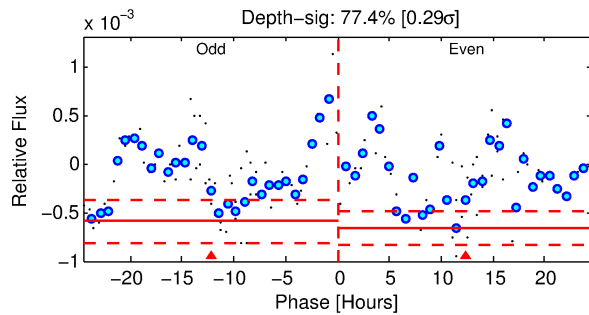
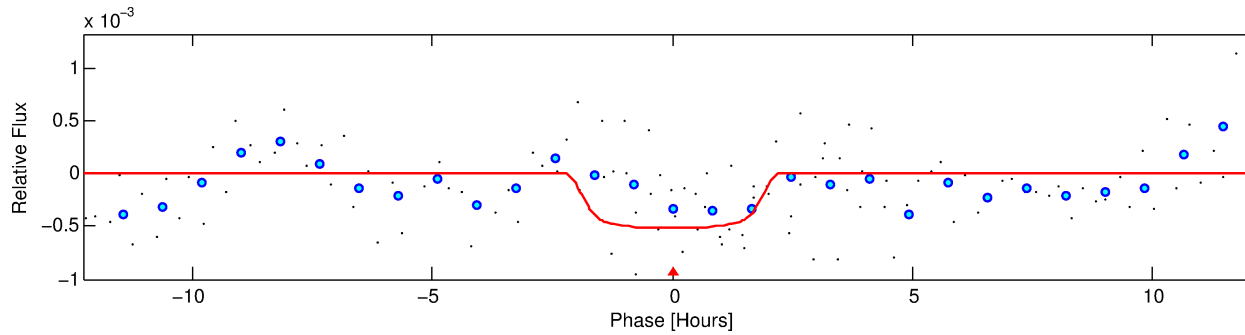
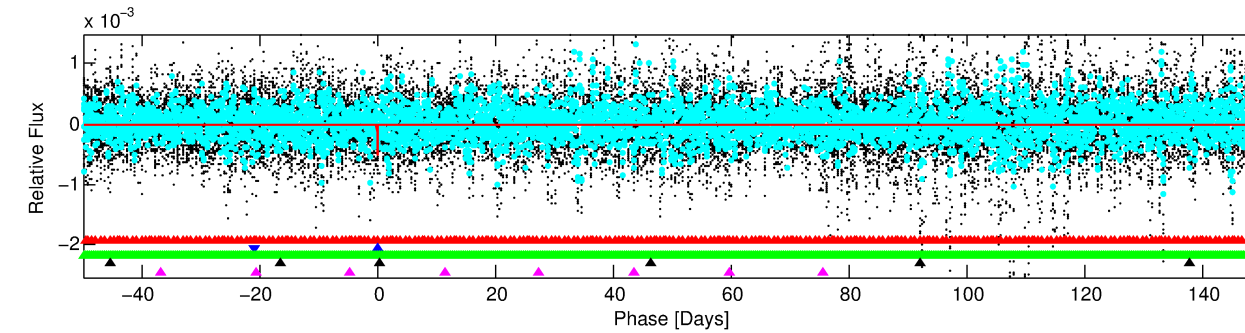
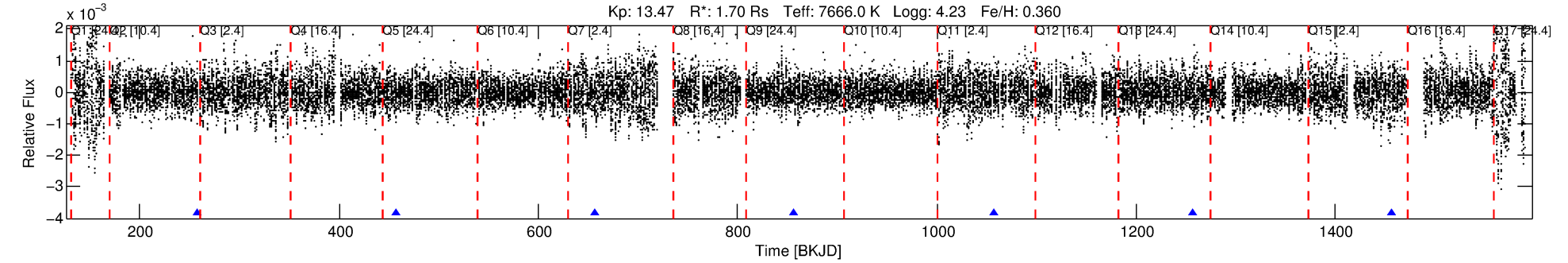
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264708-02

No Significant Match Found

DV One-Page Summary

KIC: 8264708 Candidate: 2 of 5 Period: 199.851 d



DV Fit Results:

Period = 199.85112 [0.00502] d
Epoch = 257.2185 [0.0186] BKJD
Rp/R* = 0.0235 [0.0142]
a/R* = 215.14 [780.10]
b = 0.85 [1.22]
Seff = 13.64 [6.18]
Teq = 490 [56] K
Rp = 4.36 [3.01] Re
a = 0.8106 [0.2311] AU
Ag = 2119.01 [3136.94] [0.68 σ]
Teffp = 5141 [1840] K [2.53 σ]

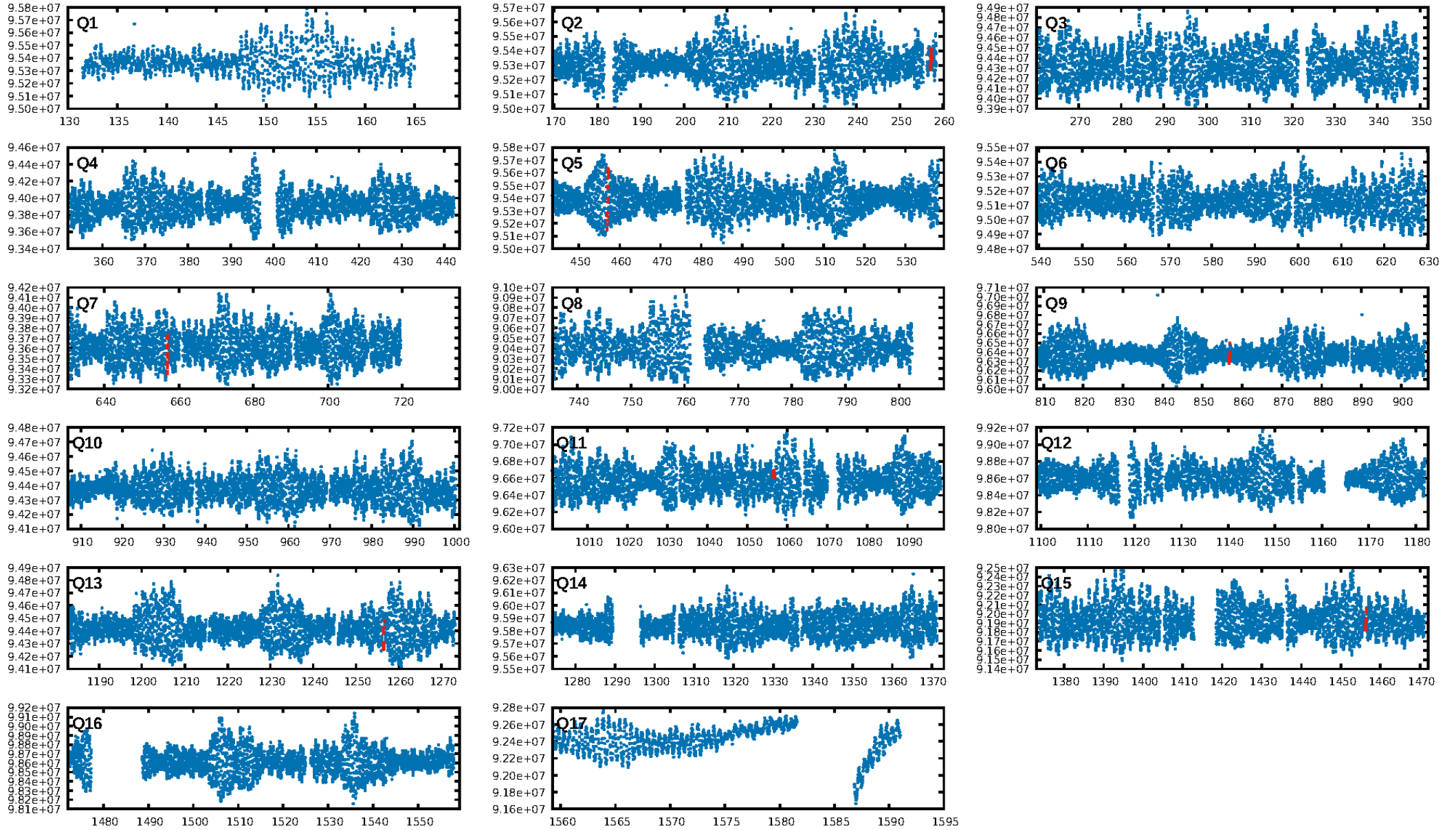
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [61.09 σ]
LongPeriod-sig: 100.0% [102.90 σ]
ModelChiSquare2-sig: 0.5%
ModelChiSquareGof-sig: 45.8%
Bootstrap-pfa: 1.86e-26
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.478
Centroid-sig: 84.2%
Centroid-so: 1.169 arcsec [1.29 σ]
OotOffset-rm: 3.331 arcsec [12.87 σ]
KicOffset-rm: 4.082 arcsec [25.28 σ]
OotOffset-st: 1/3/0/3 [7]
KicOffset-st: 1/3/0/3 [7]
DiffImageQuality-fgm: 0.71 [5/7]
DiffImageOverlap-fno: 0.00 [0/7]

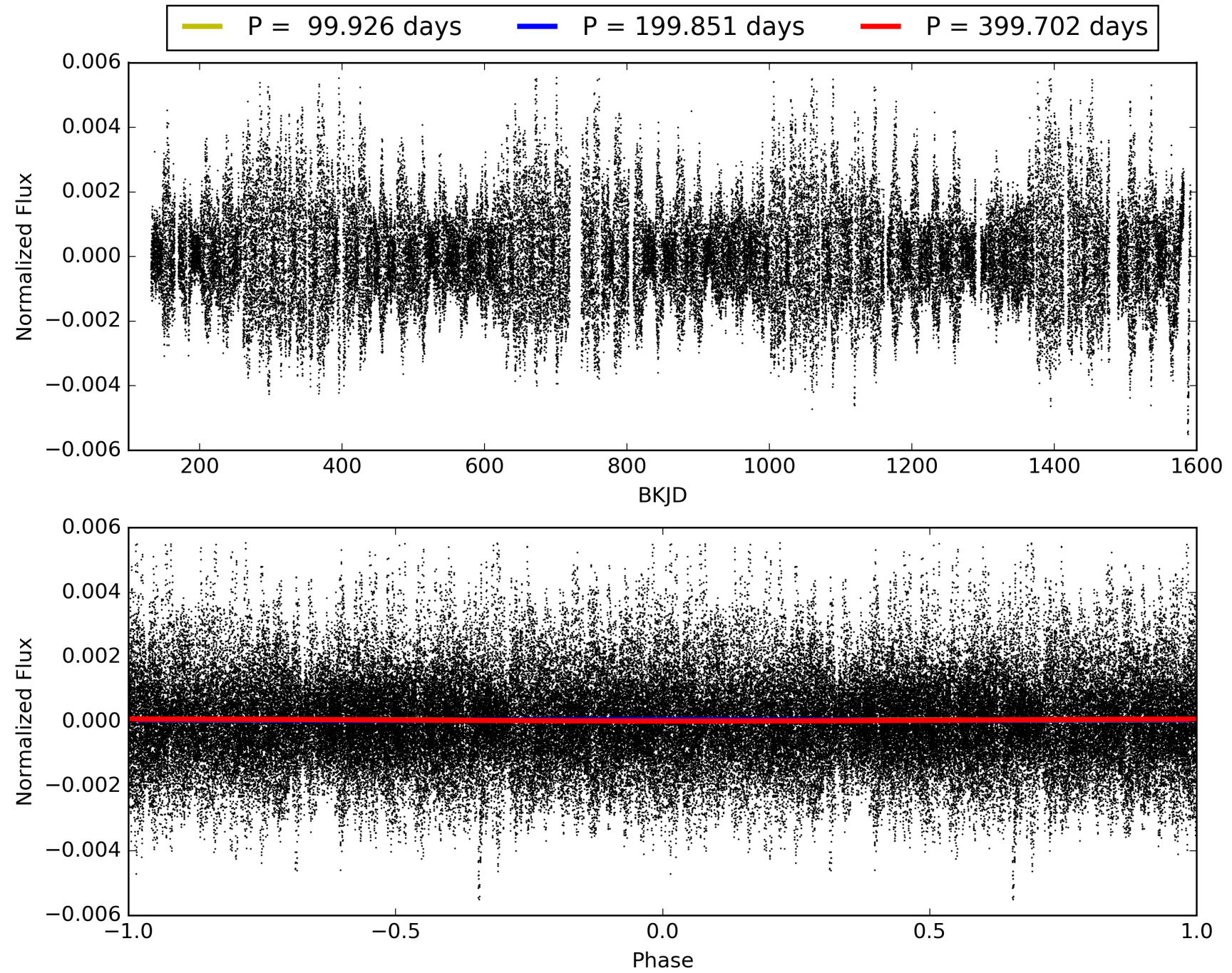
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 15:54:36 Z

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

TCE 008264708-02, PDC Light Curves

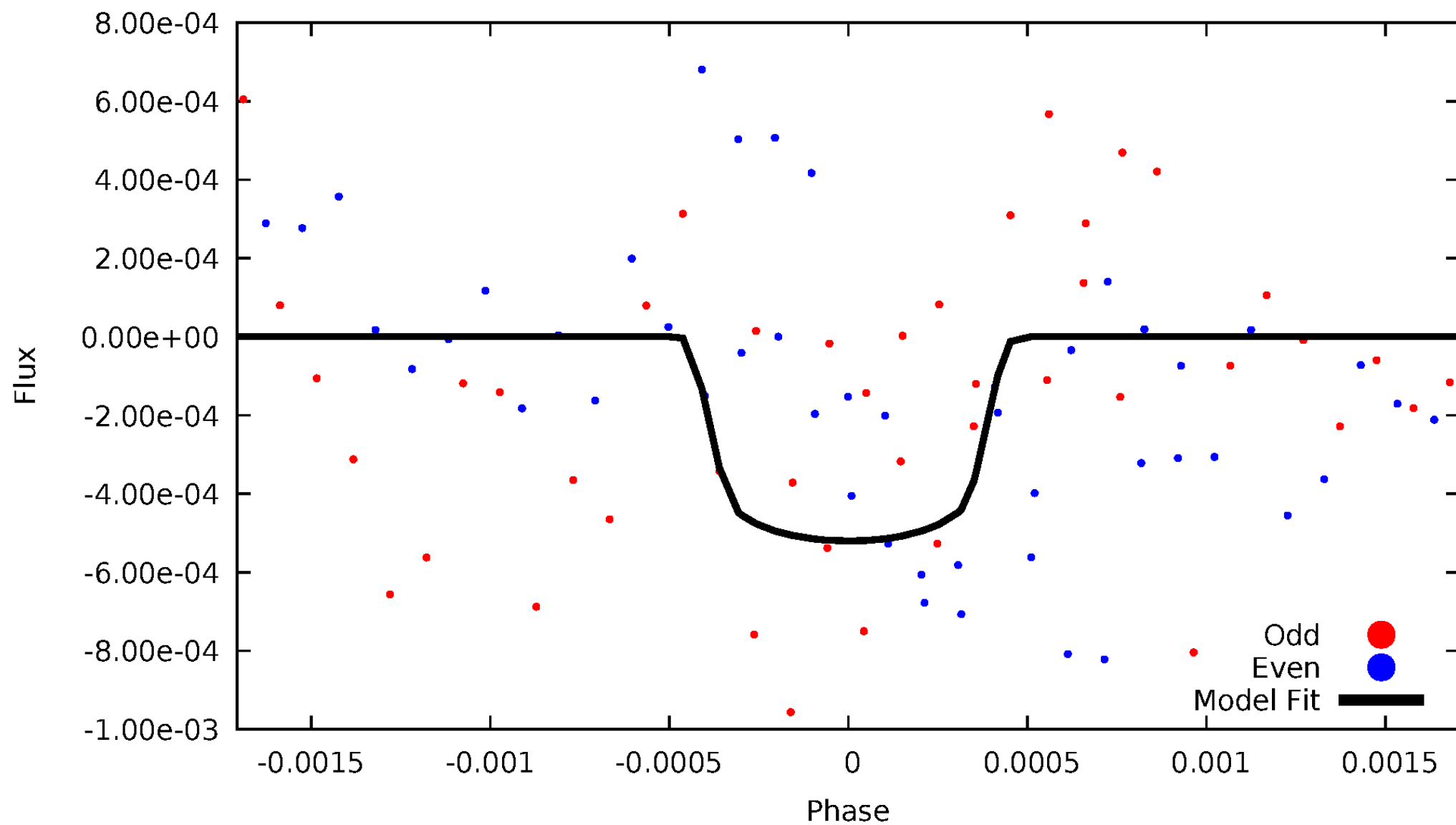


TCE 008264708-02



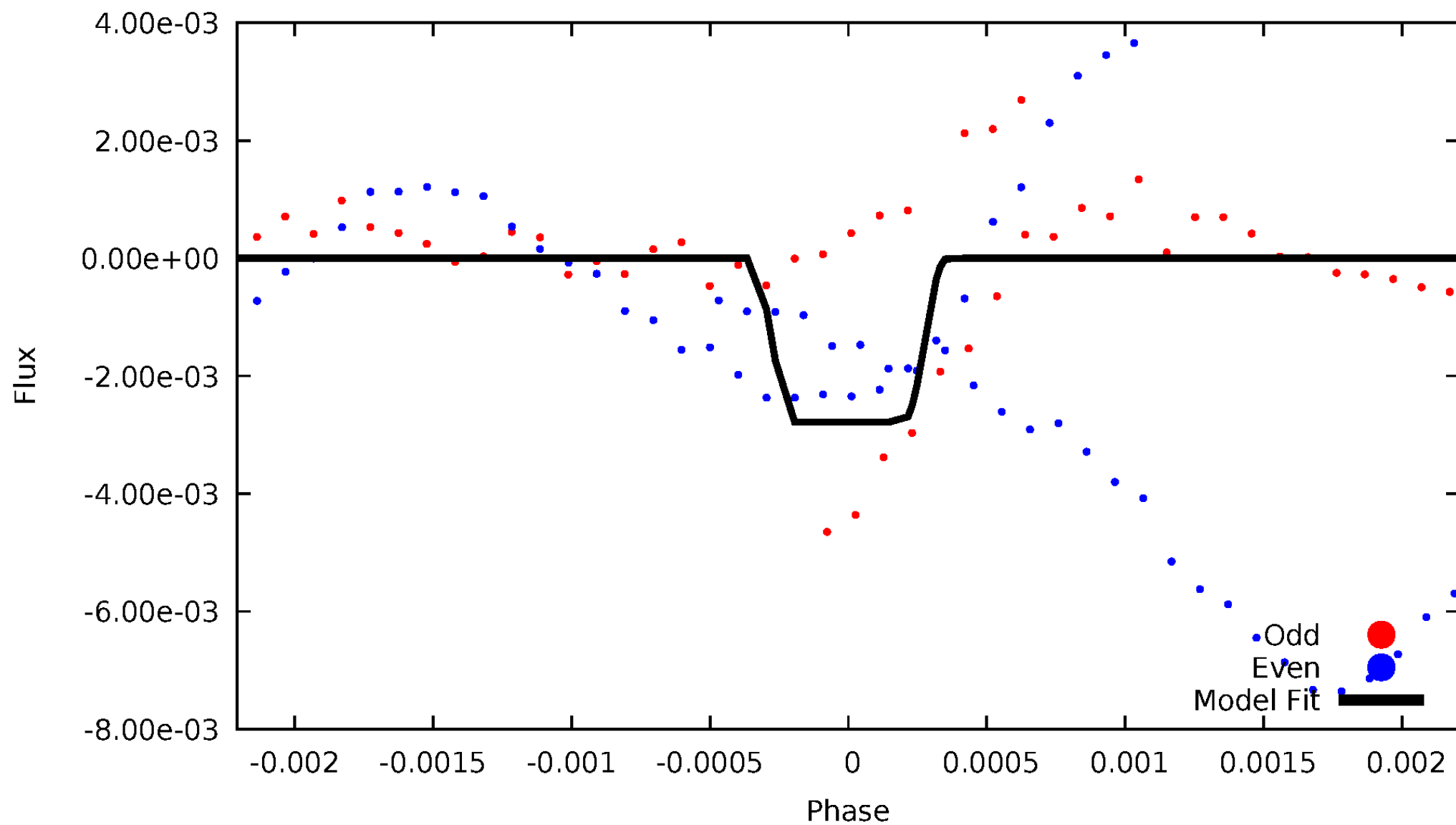
DV Odd/Even

TCE 008264708-02



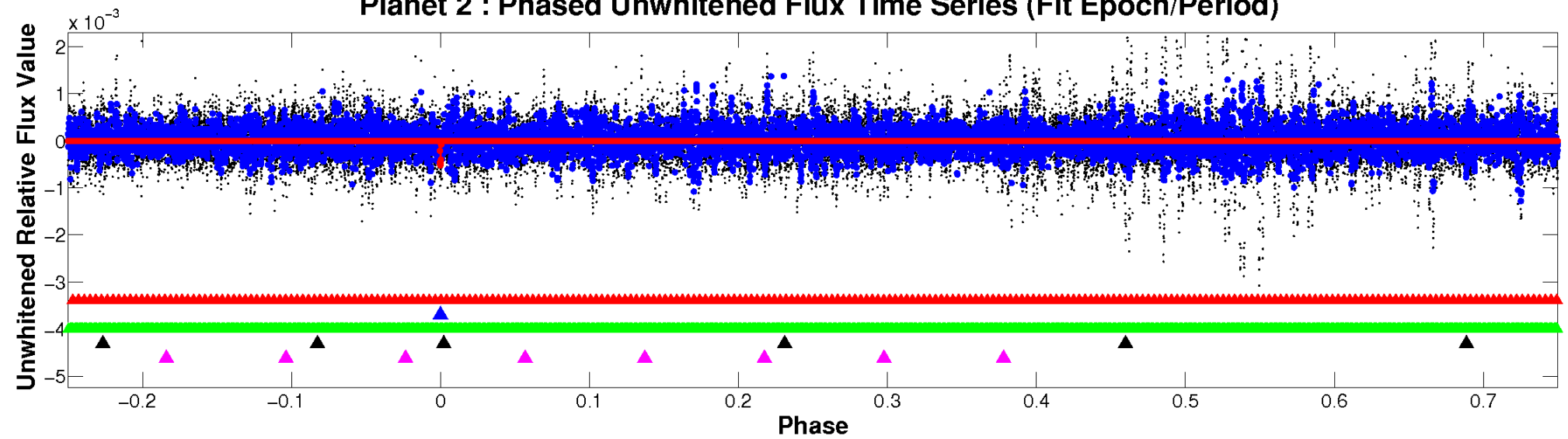
ALT Odd/Even

TCE 008264708-02

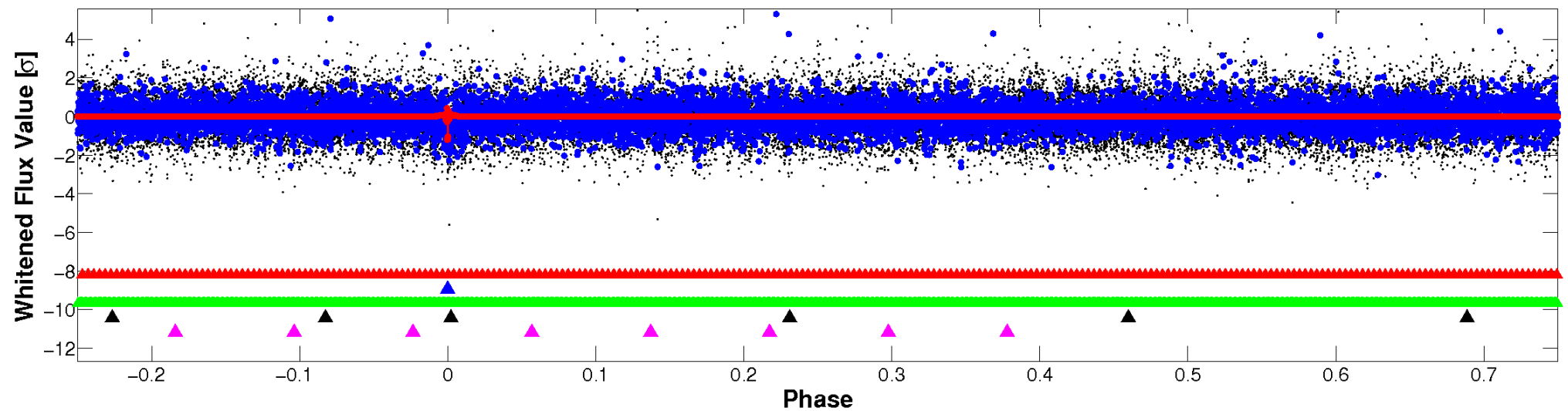


Non-Whitened Vs. Whitened Light Curve

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

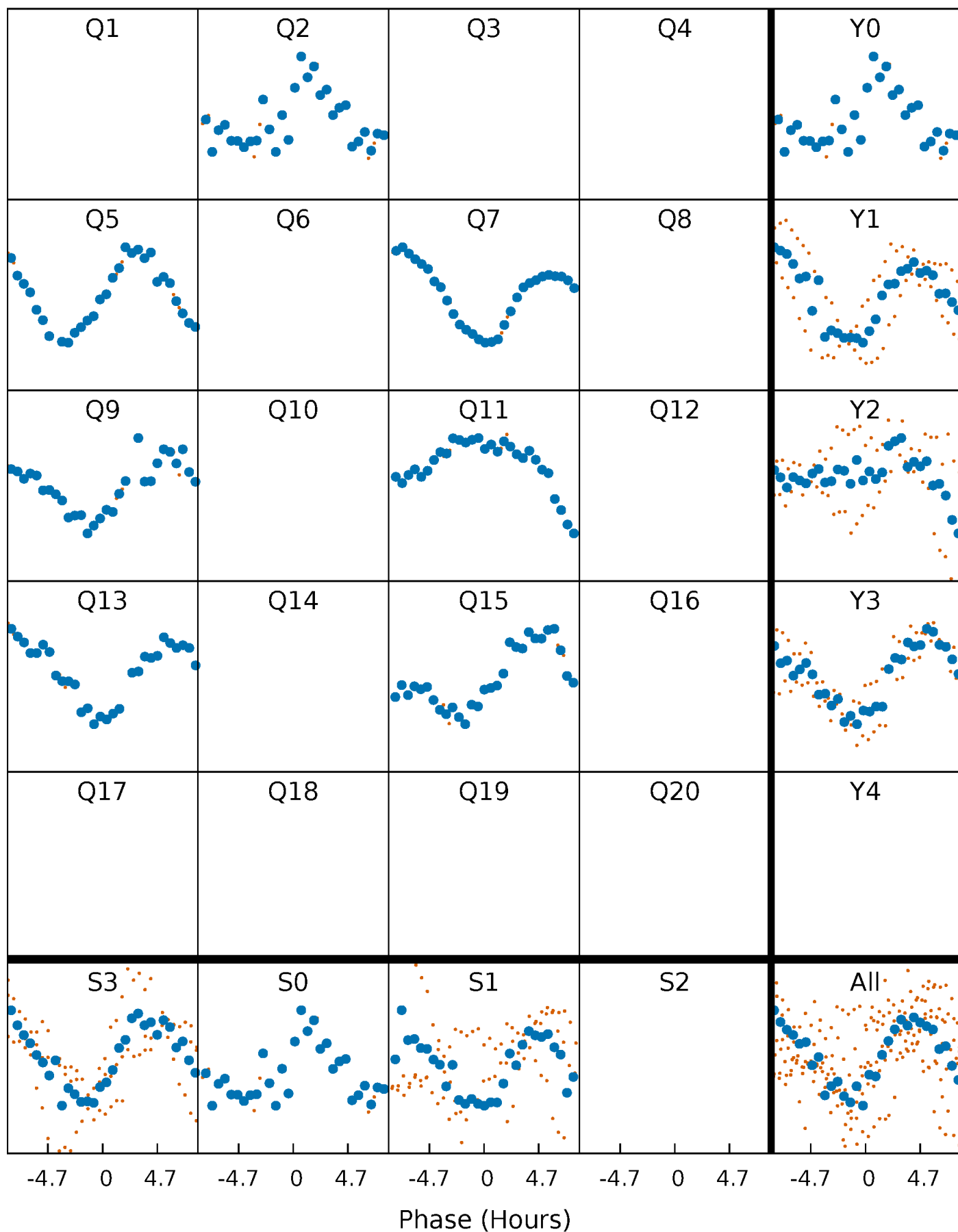


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 008264708-02 P=199.851119 Days $T_0=257.218504$ (BKJD)



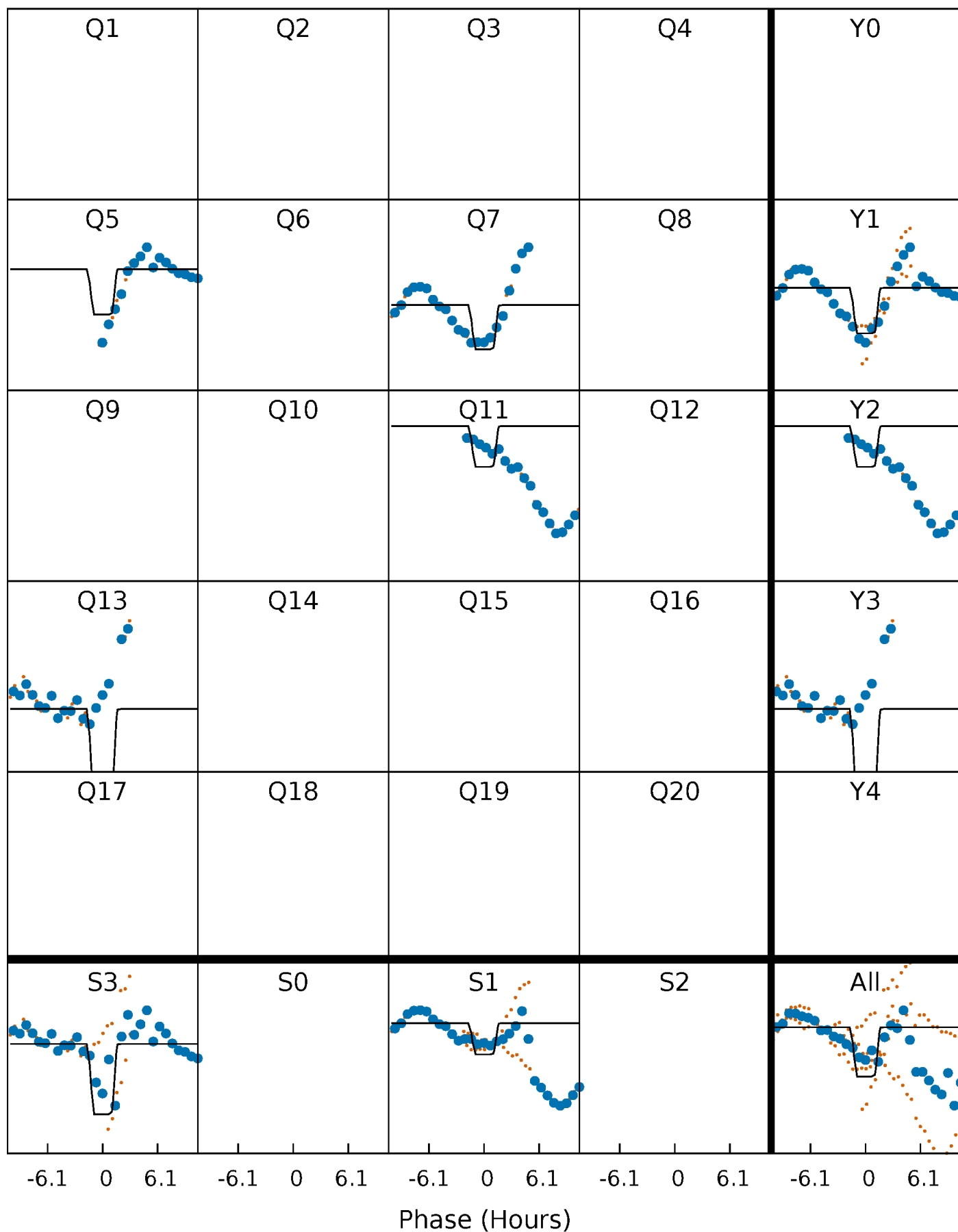
DV Quarter-Phased Transit Curves

TCE 008264708-02 $P=199.851119$ Days $T_0=257.218504$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

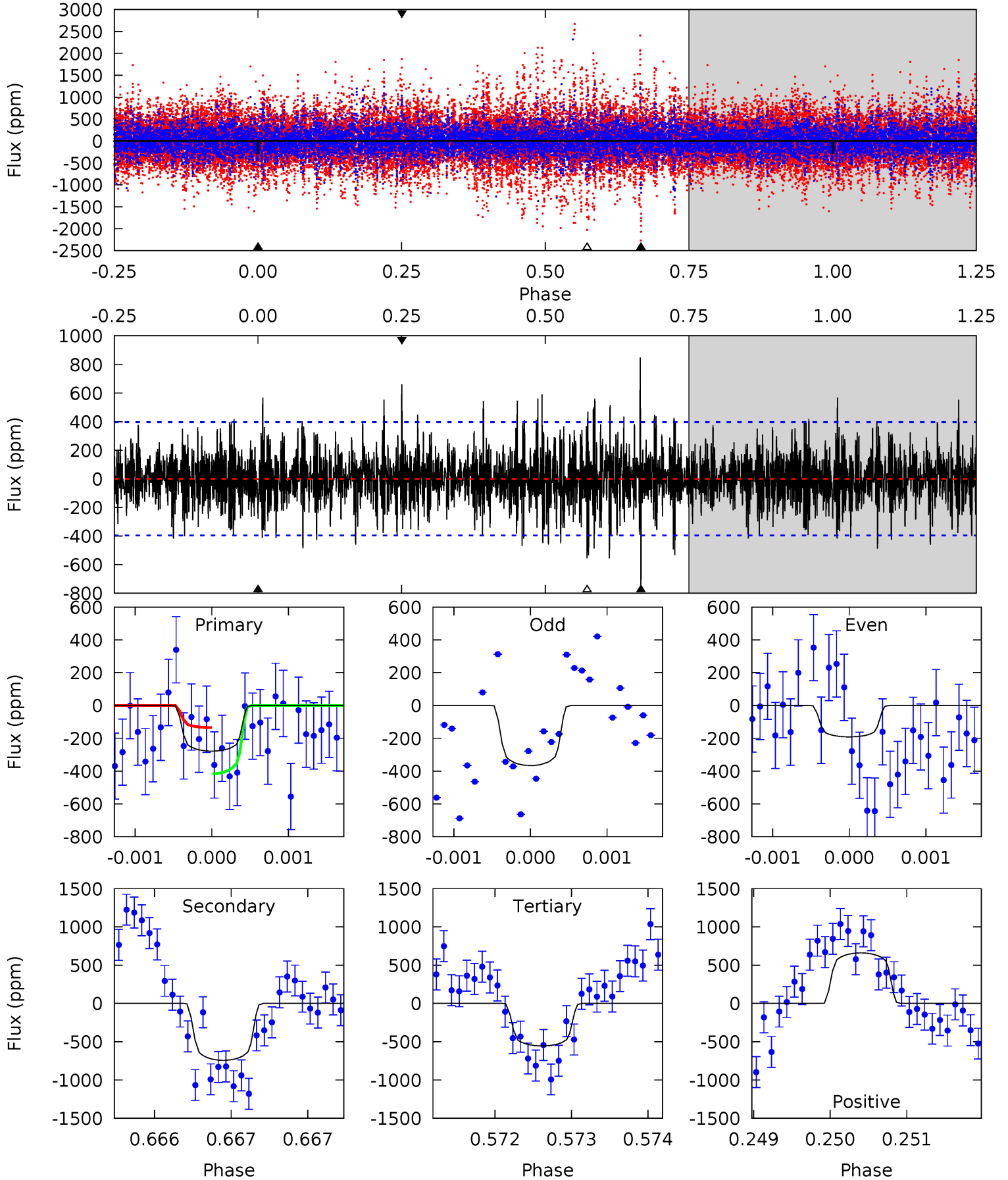
TCE 008264708-02 P=199.867461 Days $T_0=257.164908$ (BKJD)



DV Model-Shift Uniqueness Test

008264708-02, P = 199.851119 Days, E = 57.367385 Days

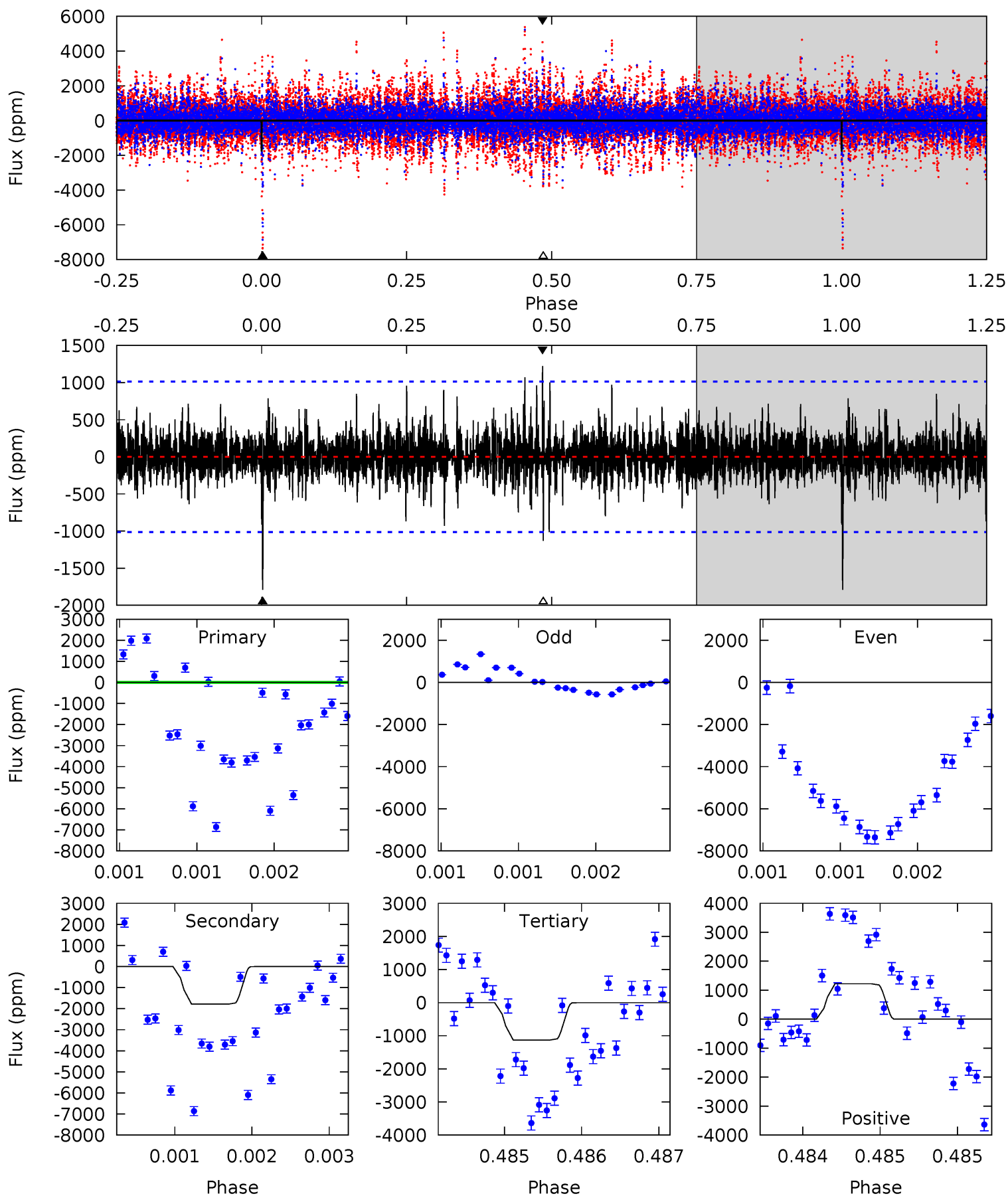
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.84	10.2	7.65	9.10	5.46	3.30	2.16	-3.81	-5.27	2.59	1.14	1.15	1.13	0.53	1.95



Alt Model-Shift Uniqueness Test

008264708-02, P = 199.867461 Days, E = 57.297447 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.39	9.72	6.14	6.64	5.51	3.38	1.32	3.25	2.75	3.58	3.08	2.33	0.96	0.41	1.90



Stellar Parameters For KIC 008264708

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7666^{+216}_{-339}	$4.226^{+0.054}_{-0.229}$	$0.360^{+0.050}_{-0.500}$	$1.702^{+0.573}_{-0.191}$	$1.779^{+0.189}_{-0.231}$	$0.508^{+0.147}_{-0.283}$
	+3%/-4%	+1%/-5%	+14%/-139%	+34%/-11%	+11%/-13%	+29%/-56%
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 008264708-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-743 ± 73	$4.73^{+2.90}_{-2.31}$	701^{+58}_{-39}	8216^{+5886}_{-1819}	11796^{+36331}_{-7096}
Alt.	-1789 ± 184	$10.27^{+3.17}_{-2.88}$	697^{+55}_{-38}	6720^{+1383}_{-838}	6026^{+5432}_{-2517}

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

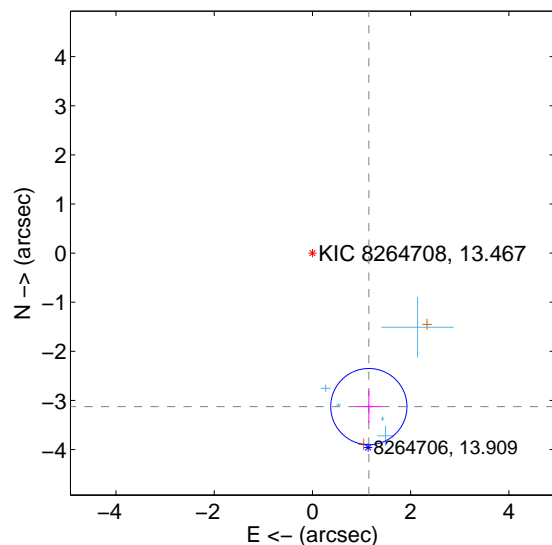
Supplemental centroid analysis for 008264708-02. Kepler magnitude: 13.47. Transit SNR 5.93

There are 5 quarters with good PRF difference image offsets

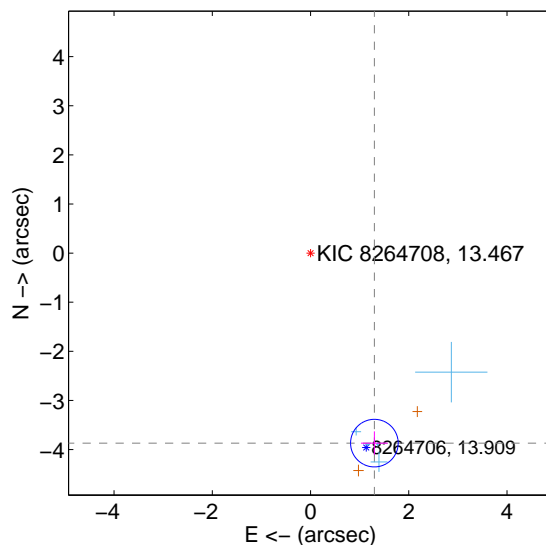
The direct PRF centroid is offset from the target star catalog position by about 0.54 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.331 ± 0.259	12.87	-1.148 ± 0.258	-3.126 ± 0.328
PRF-fit source offset from KIC position	4.082 ± 0.162	25.28	-1.300 ± 0.274	-3.870 ± 0.239
photometric centroid source offset	1.17 ± 0.91	1.29	1.03 ± 0.85	-0.55 ± 1.09

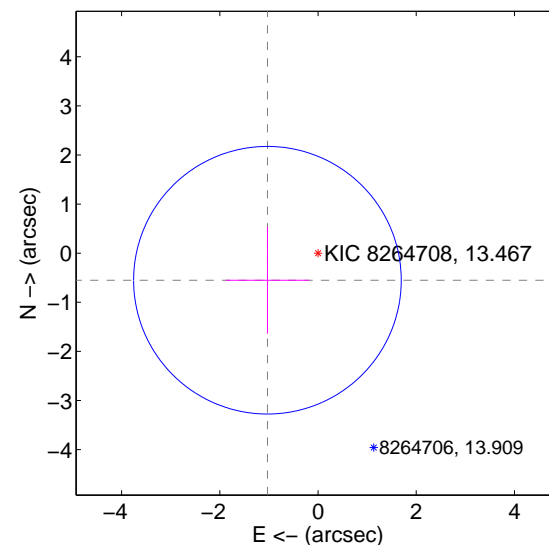
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

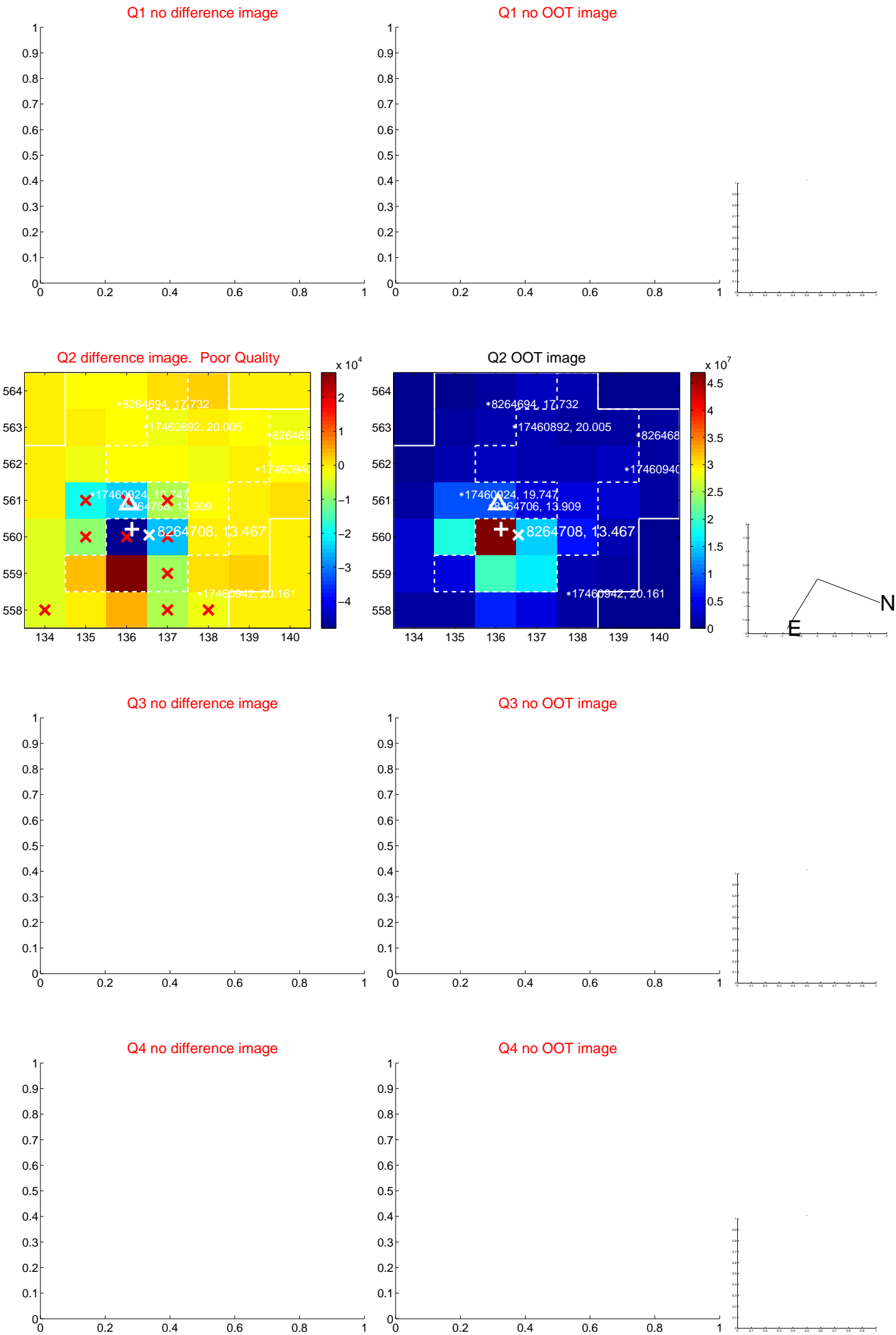


offset from photometric centroids

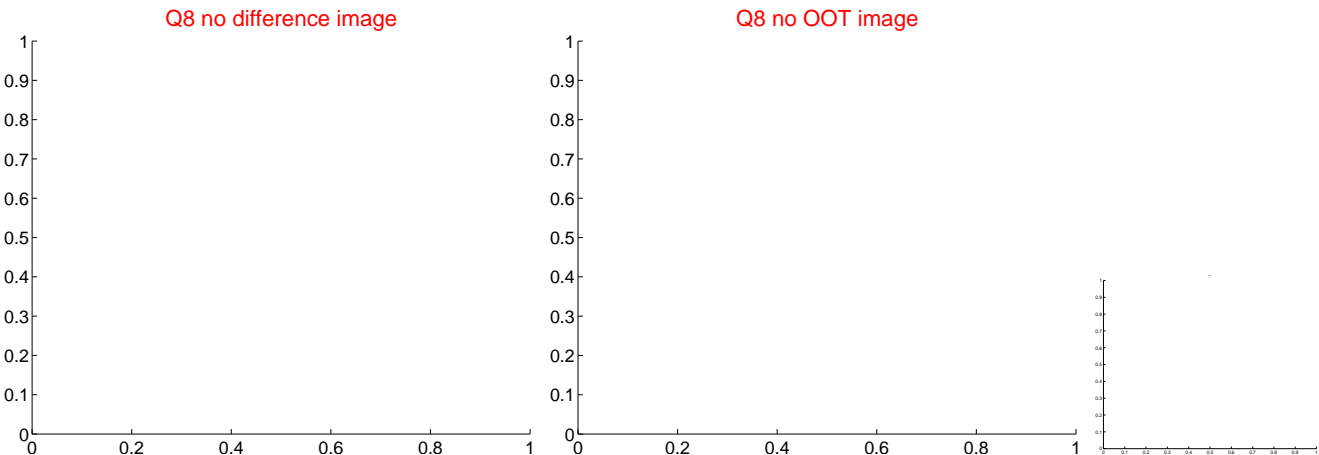
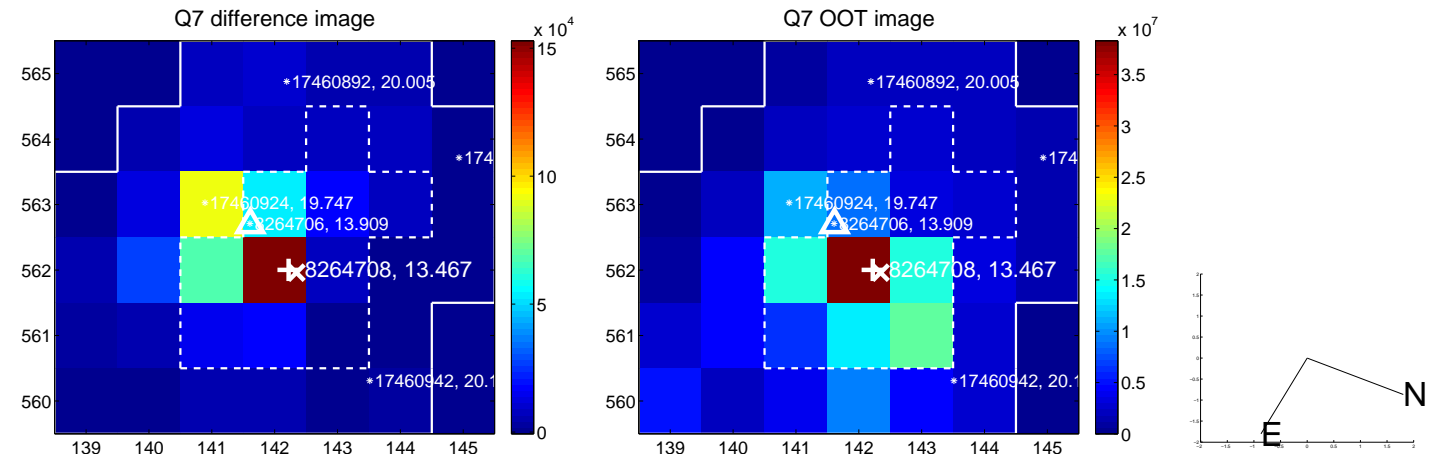
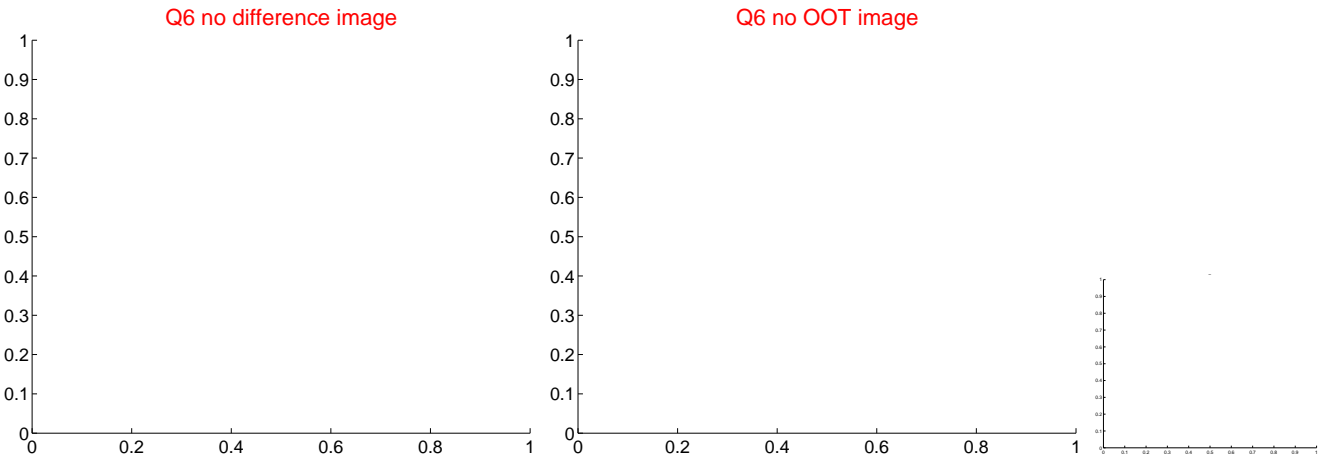
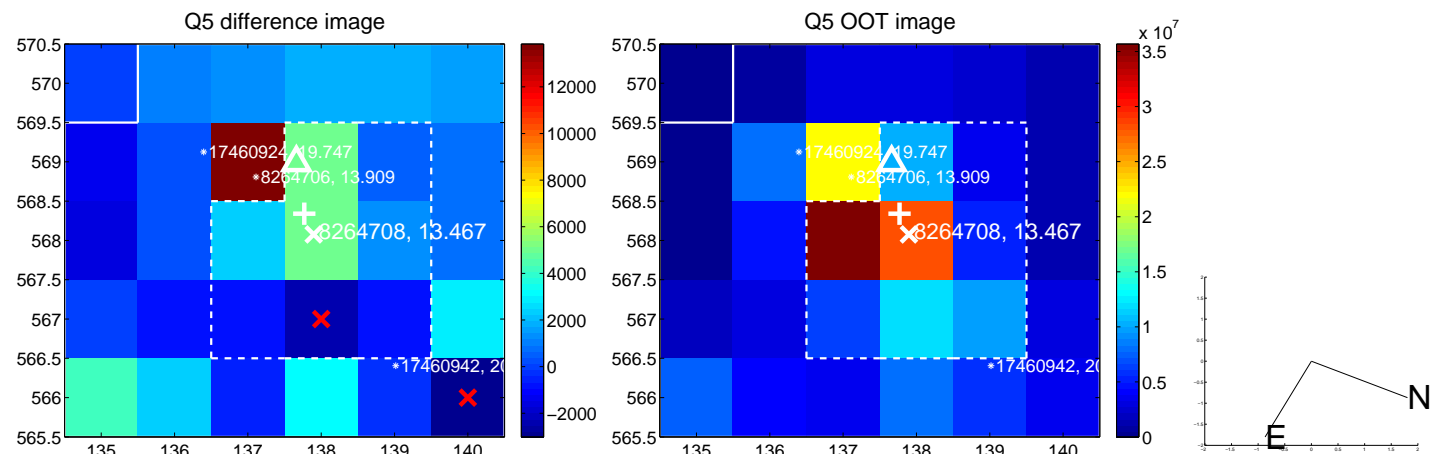


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

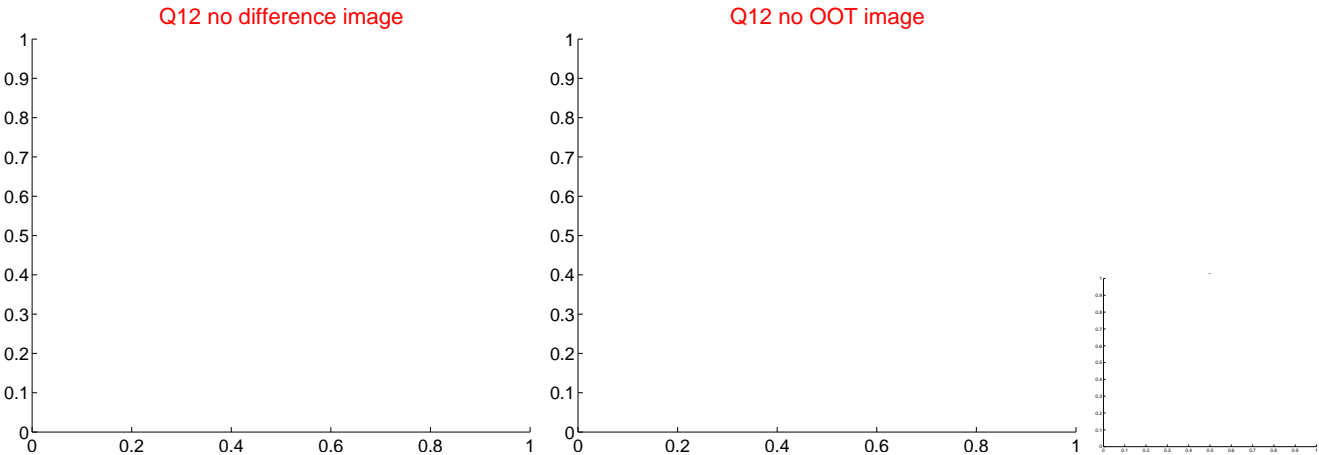
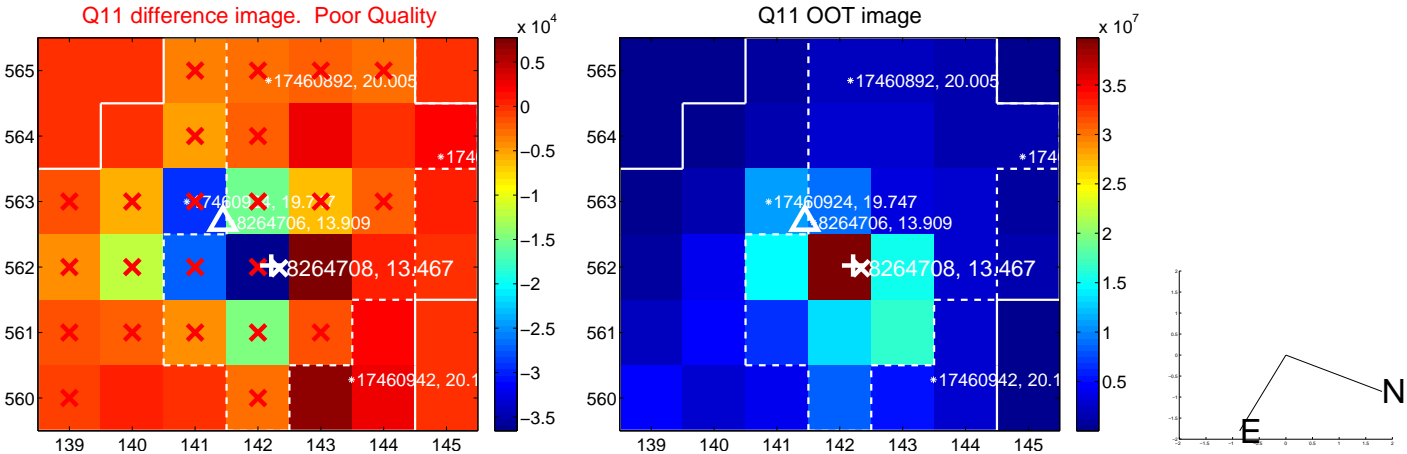
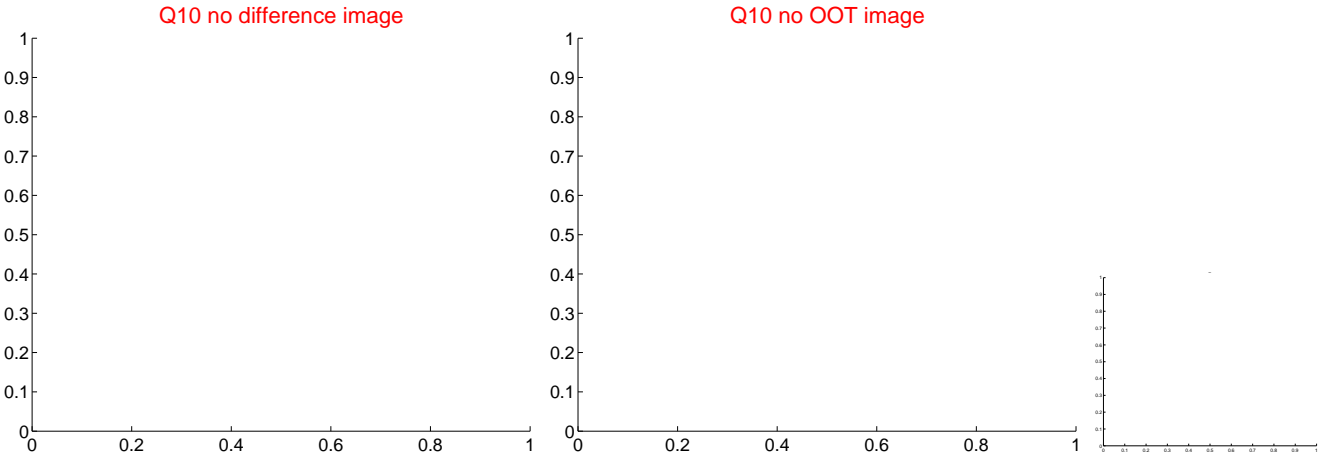
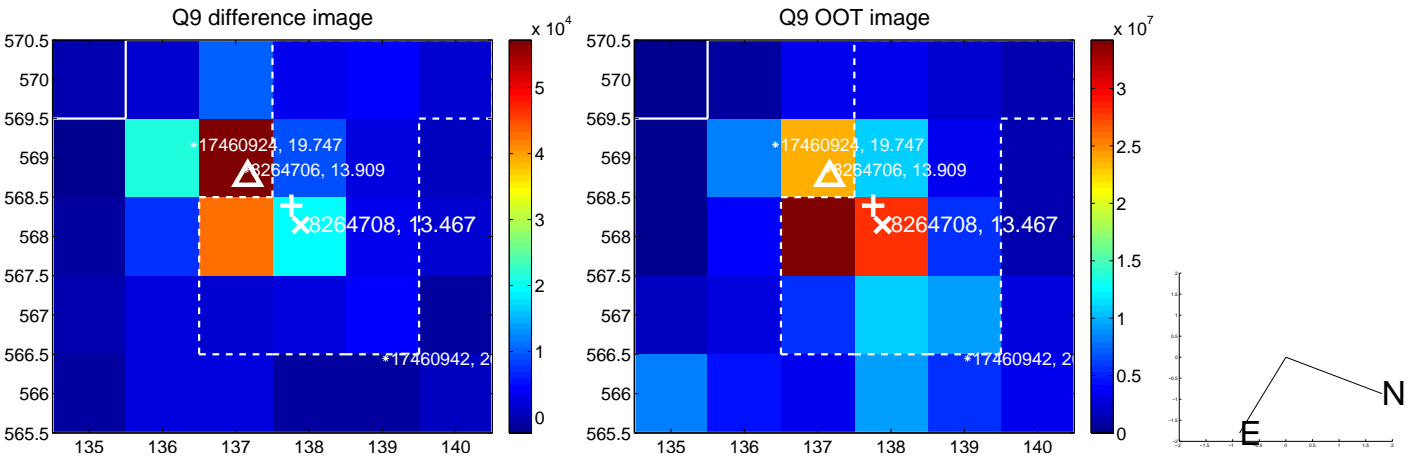
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



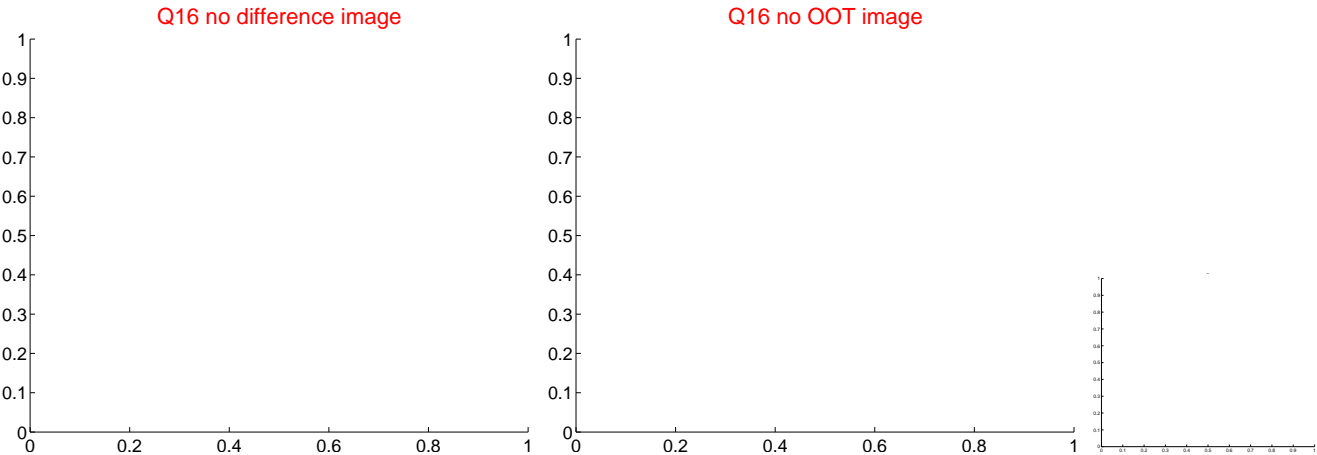
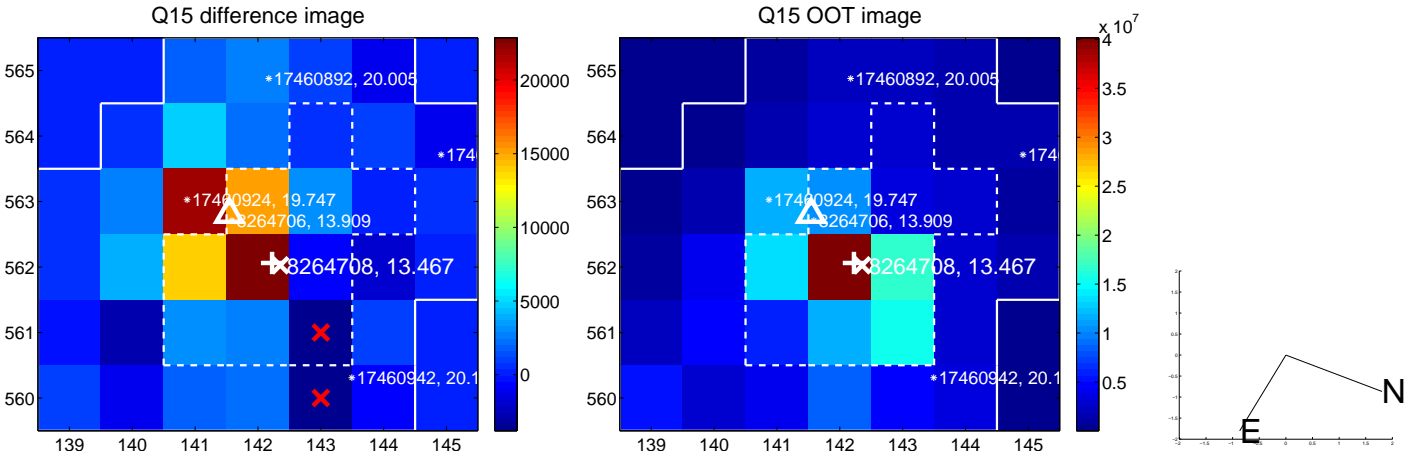
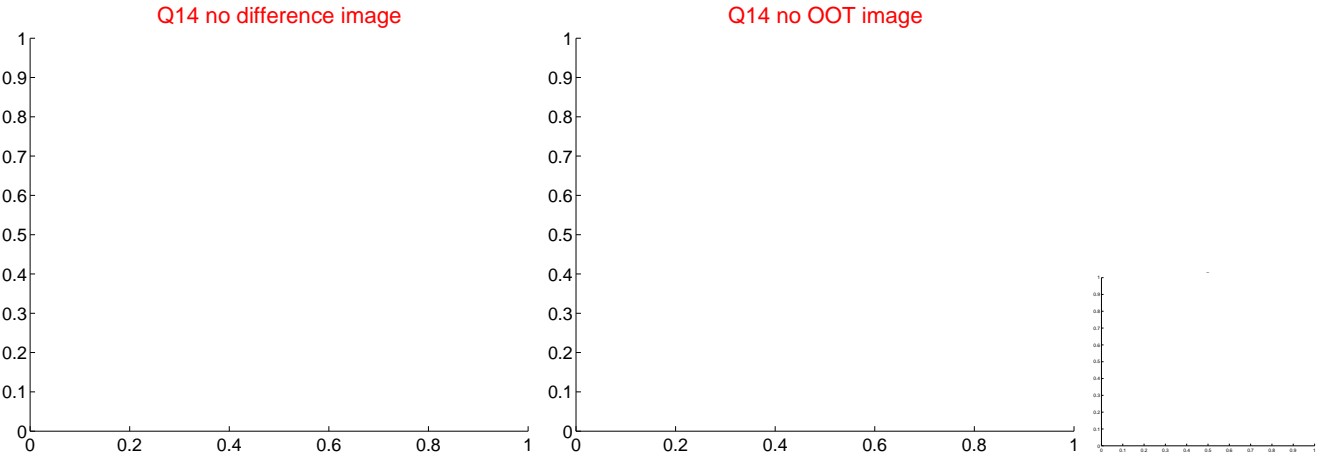
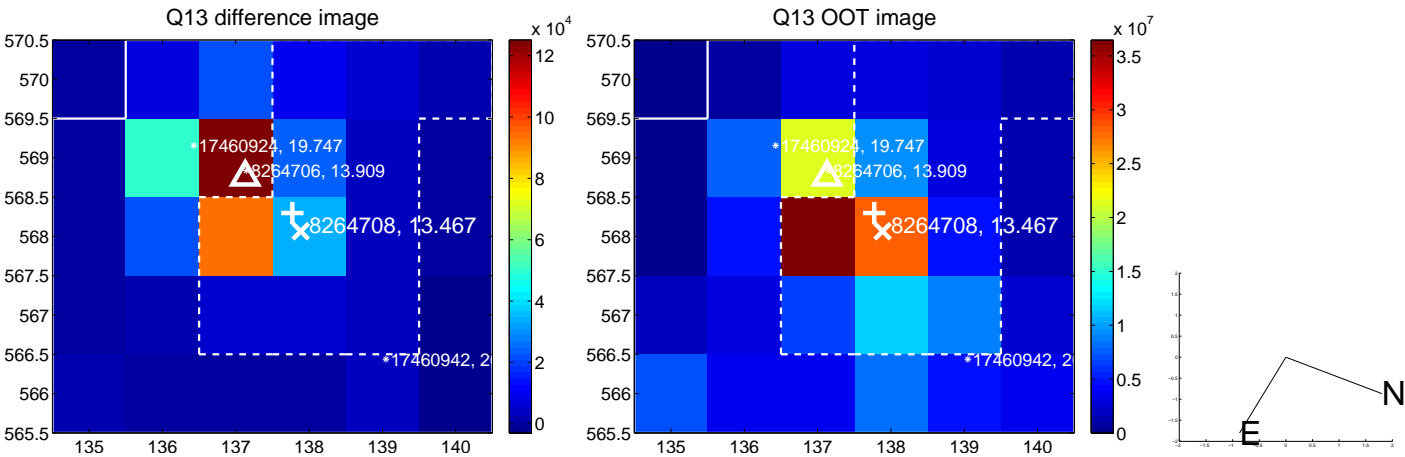
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



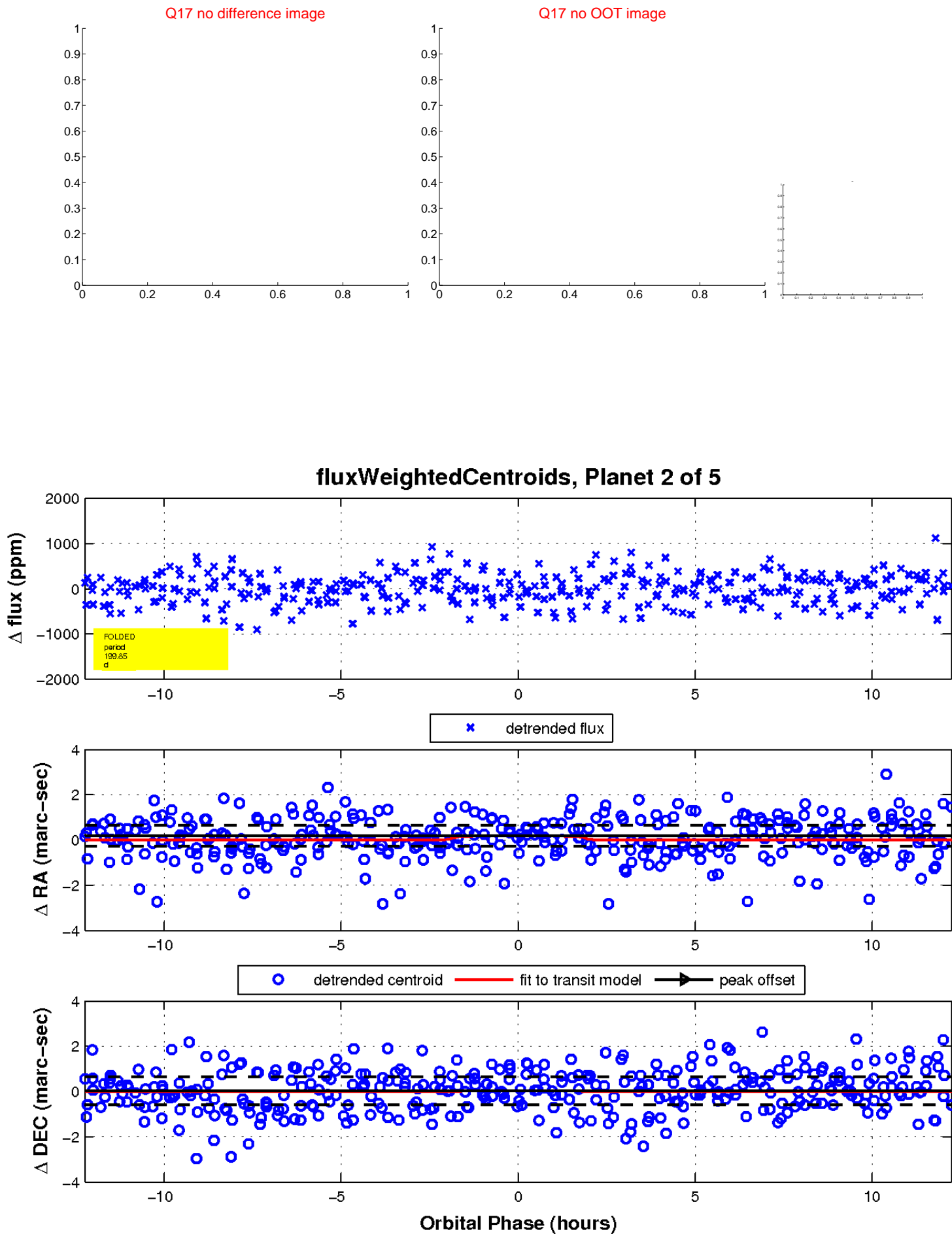
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



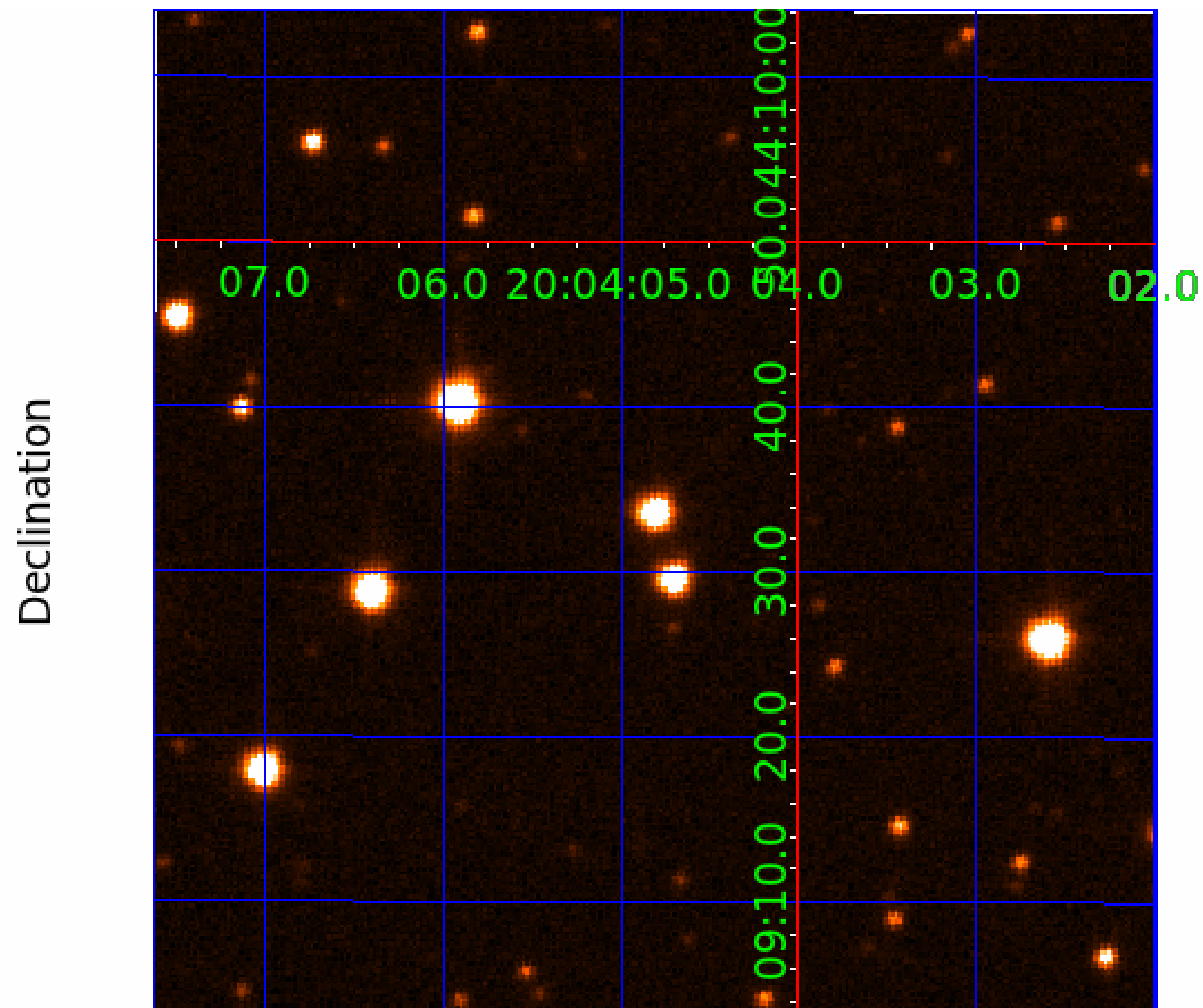
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 008264708

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})
008264708-01	OBS	No	2.314758	132.306826	41.8	9.948	8.8	8.2	1.70	7666	1.29	5205.57
008264708-02	OBS	No	199.851119	257.218504	520.3	4.092	15.3	5.9	1.70	7666	4.36	13.64
008264708-03	OBS	No	0.769926	132.167085	49.7	2.286	8.6	7.4	1.70	7666	1.39	22587.97
008264708-04	OBS	No	245.578938	211.935546	351.8	9.850	9.8	6.2	1.70	7666	3.47	10.37
008264708-05	OBS	No	183.807534	132.904901	661.5	4.794	7.3	6.5	1.70	7666	4.88	15.25

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264708-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—CENT_UNRESOLVED_OFFSET
008264708-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
008264708-03	OBS	FP	0.00	1	0	1	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET
008264708-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008264708-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_KIC_POS

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

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

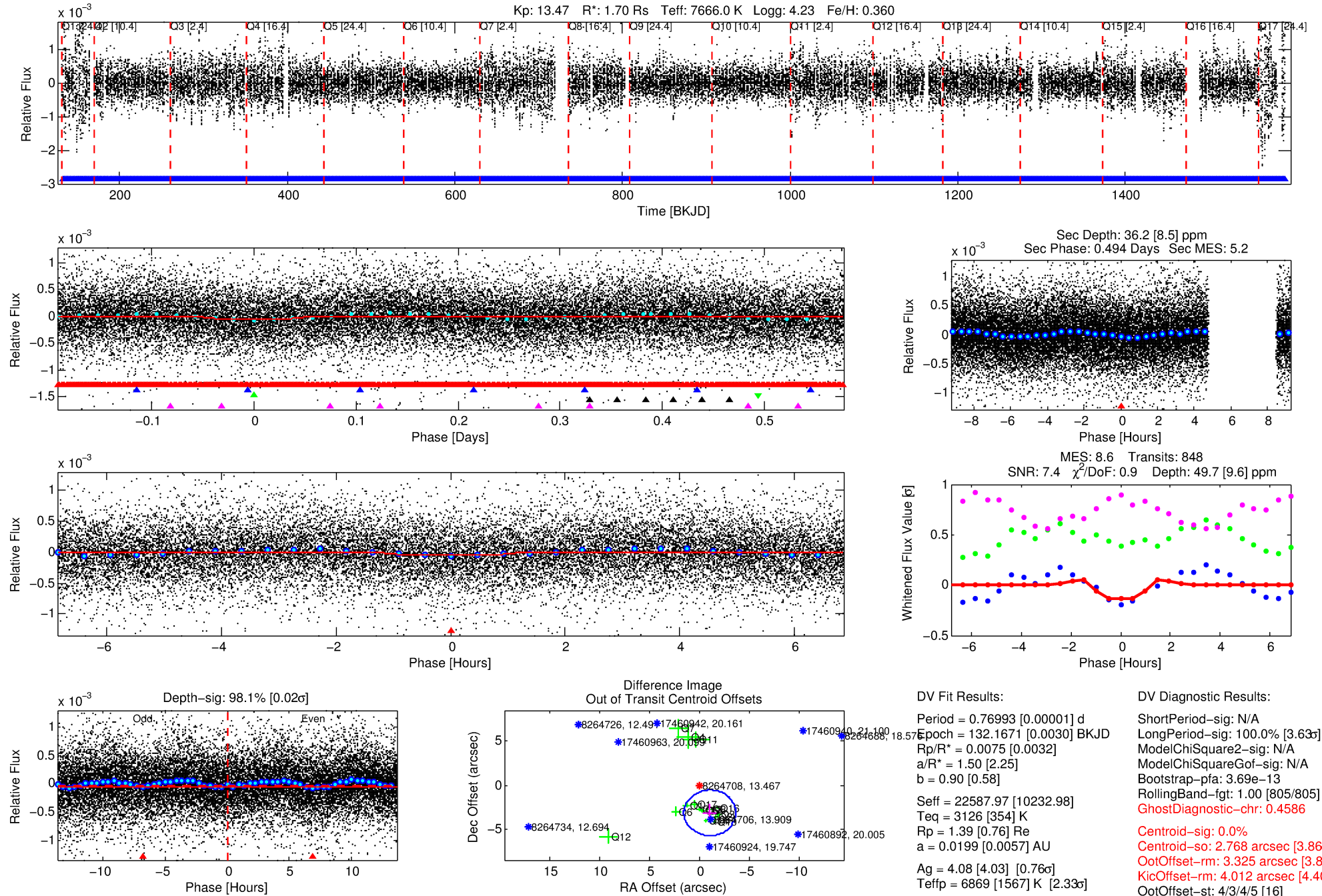
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264708-03

No Significant Match Found

DV One-Page Summary

KIC: 8264708 Candidate: 3 of 5 Period: 0.770 d



DV Fit Results:

Period = 0.76993 [0.00001] d
Epoch = 132.1671 [0.0030] BKJD
Rp/R* = 0.0075 [0.0032]
a/R* = 1.50 [2.25]
b = 0.90 [0.58]
Seff = 22587.97 [10232.98]
Teff = 3126 [354] K
Rp = 1.39 [0.76] Re
a = 0.0199 [0.0057] AU
Ag = 4.08 [4.03] [0.76 σ]
Teffp = 6869 [1567] K [2.33 σ]

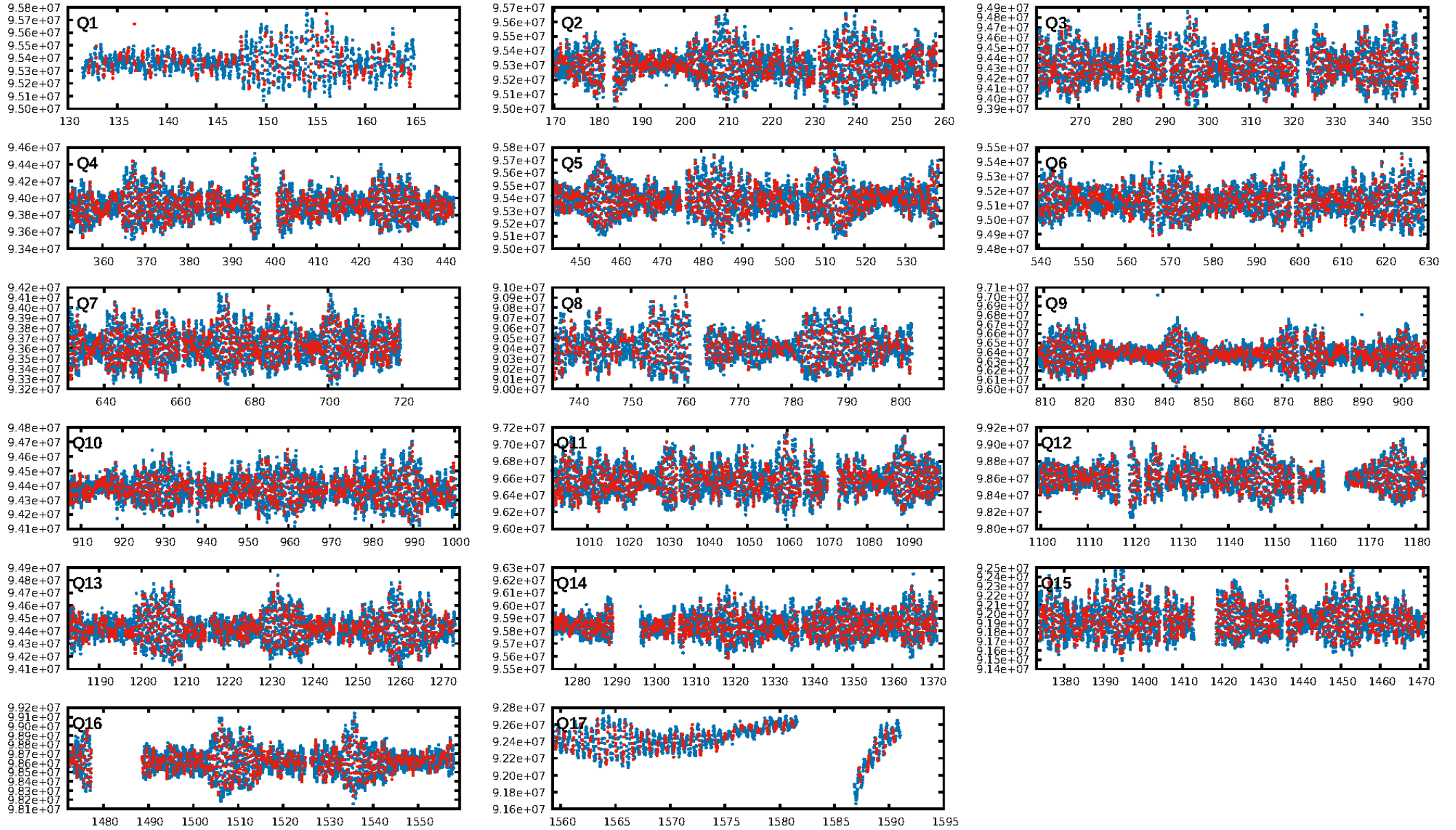
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [3.63 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.69e-13
RollingBand-fgt: 1.00 [805/805]
GhostDiagnostic-chr: 0.4586
Centroid-sig: 0.0%
Centroid-so: 2.768 arcsec [3.86 σ]
OotOffset-rm: 3.325 arcsec [3.85 σ]
KicOffset-rm: 4.012 arcsec [4.40 σ]
OotOffset-st: 4/3/4/5 [16]
KicOffset-st: 4/3/4/5 [16]
DiffImageQuality-fgm: 0.69 [11/16]
DiffImageOverlap-fno: 1.00 [17/17]

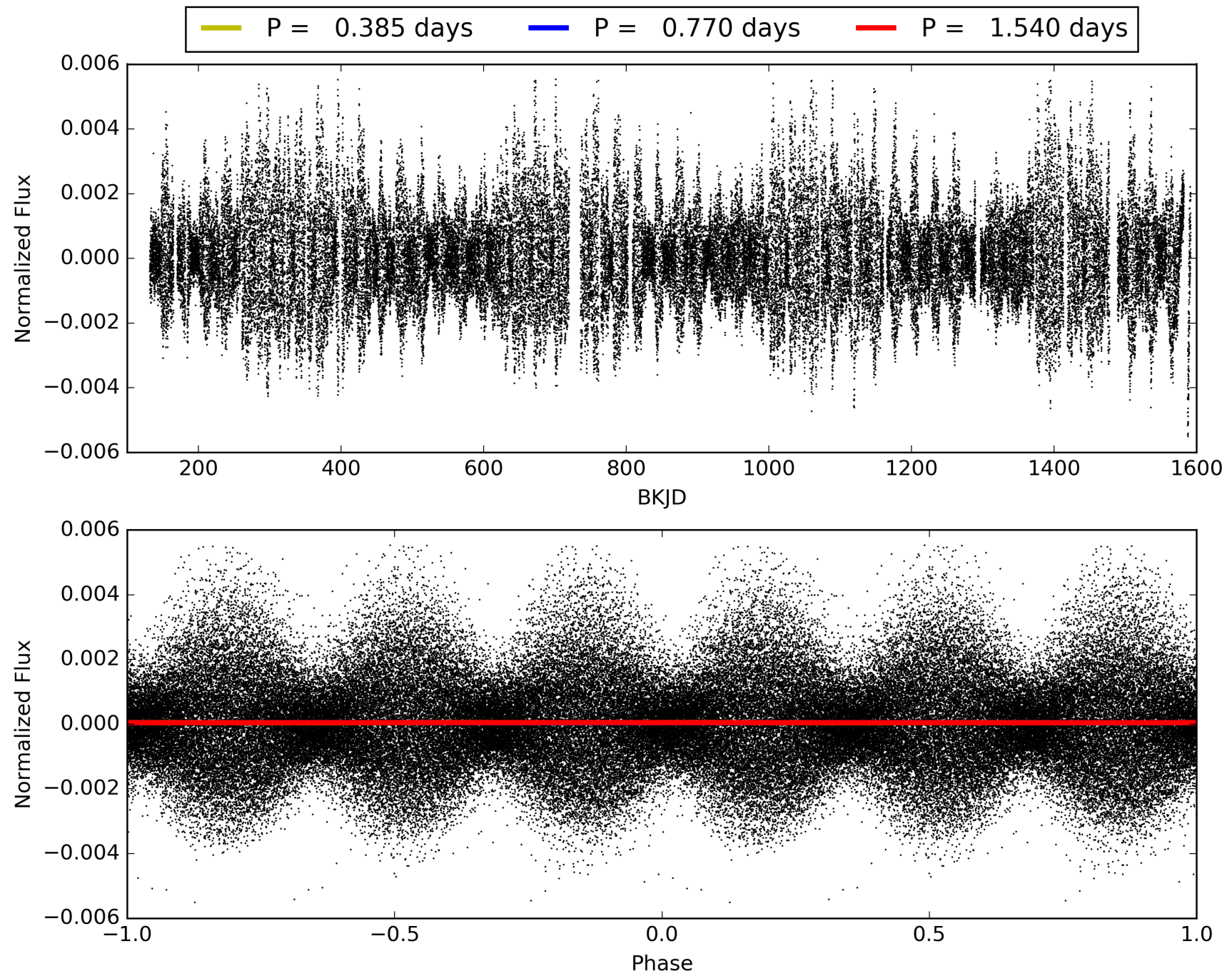
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 15:54:42 Z

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

TCE 008264708-03, PDC Light Curves

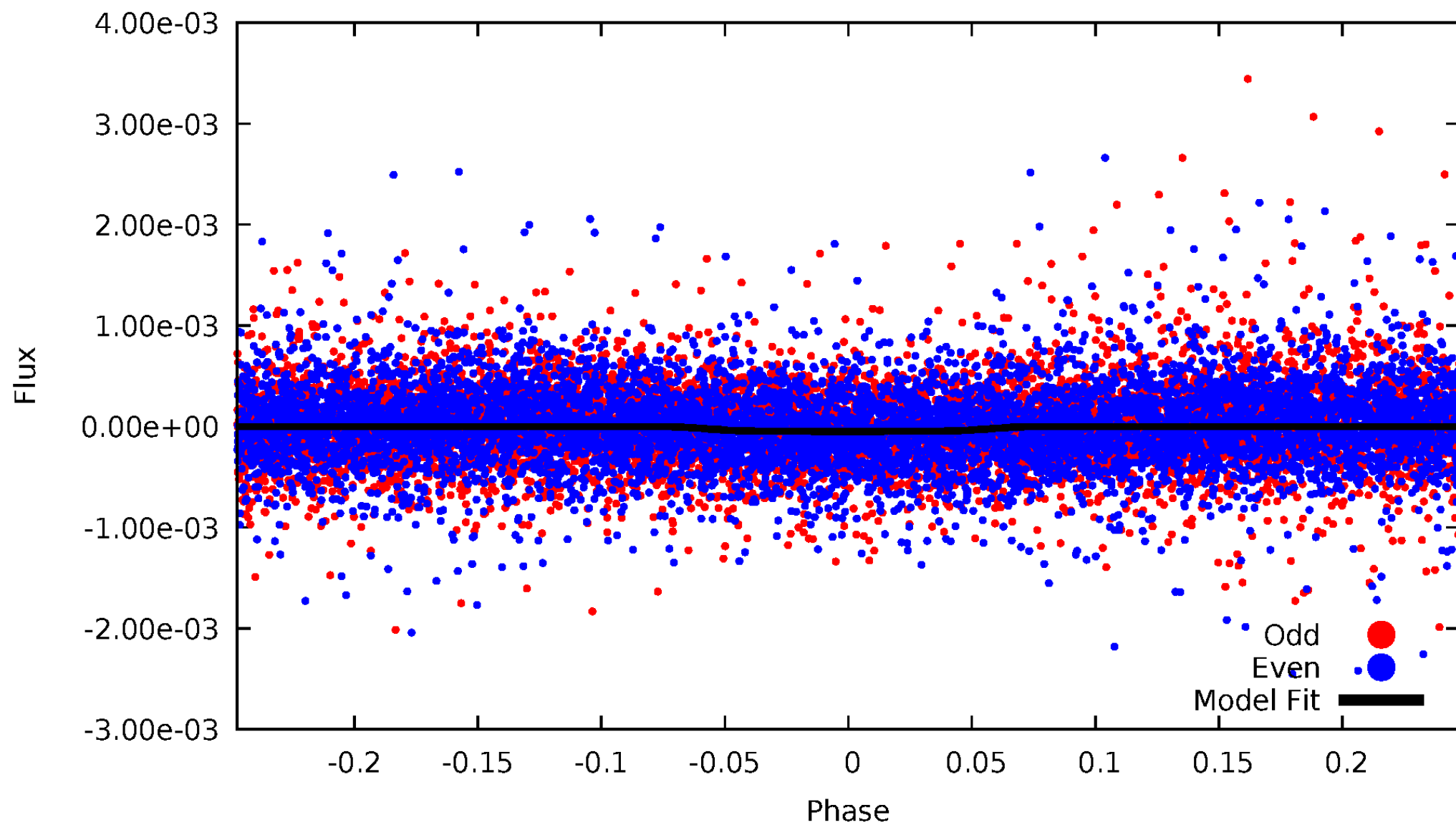


TCE 008264708-03



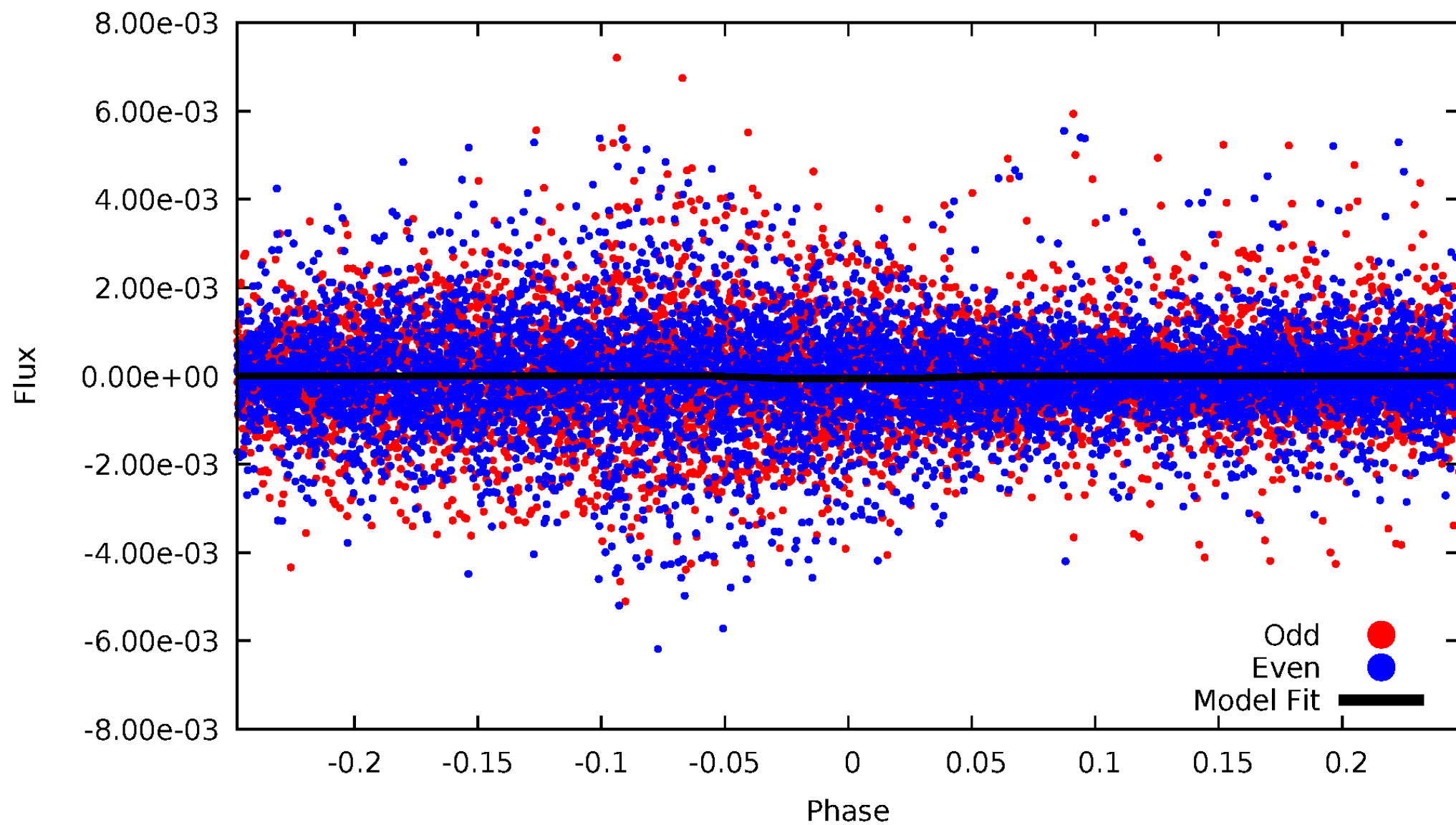
DV Odd/Even

TCE 008264708-03



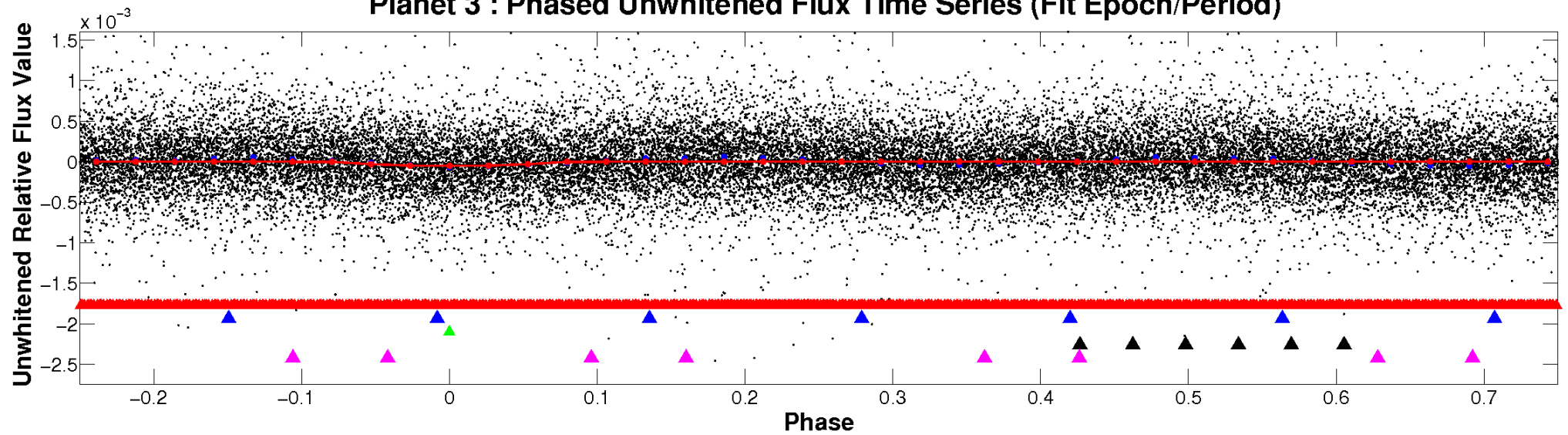
ALT Odd/Even

TCE 008264708-03

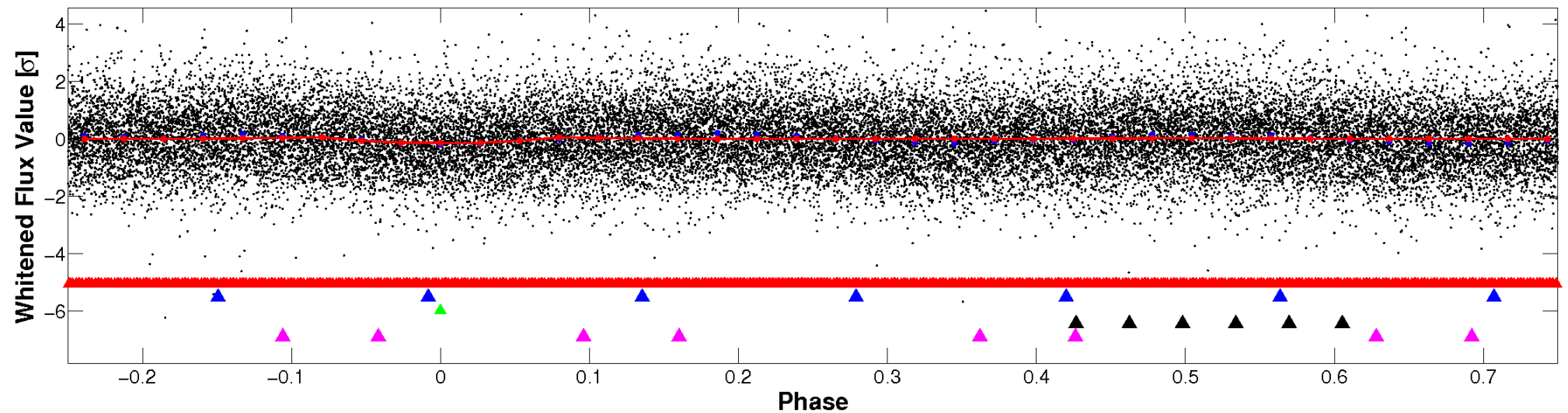


Non-Whitened Vs. Whitened Light Curve

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

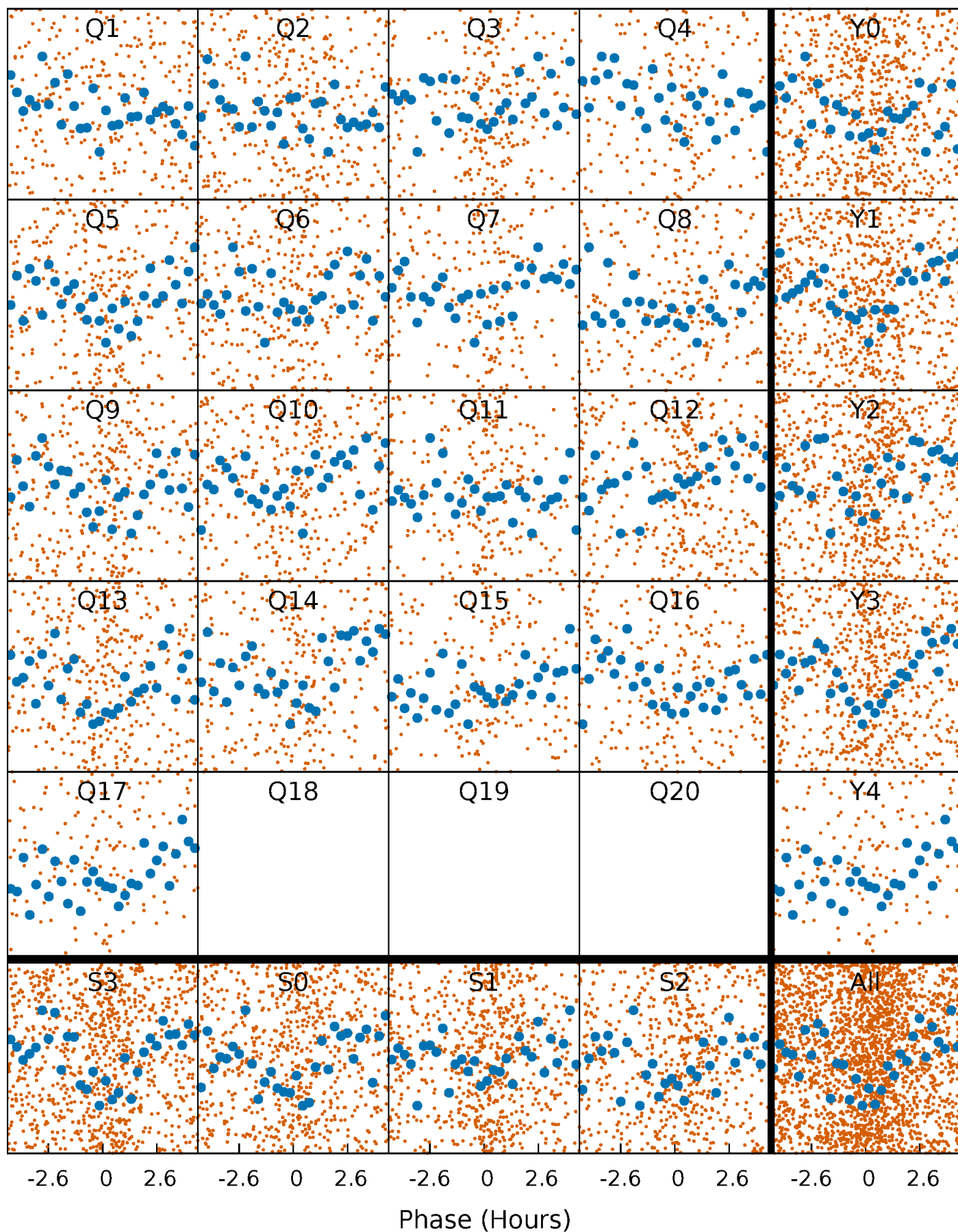


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



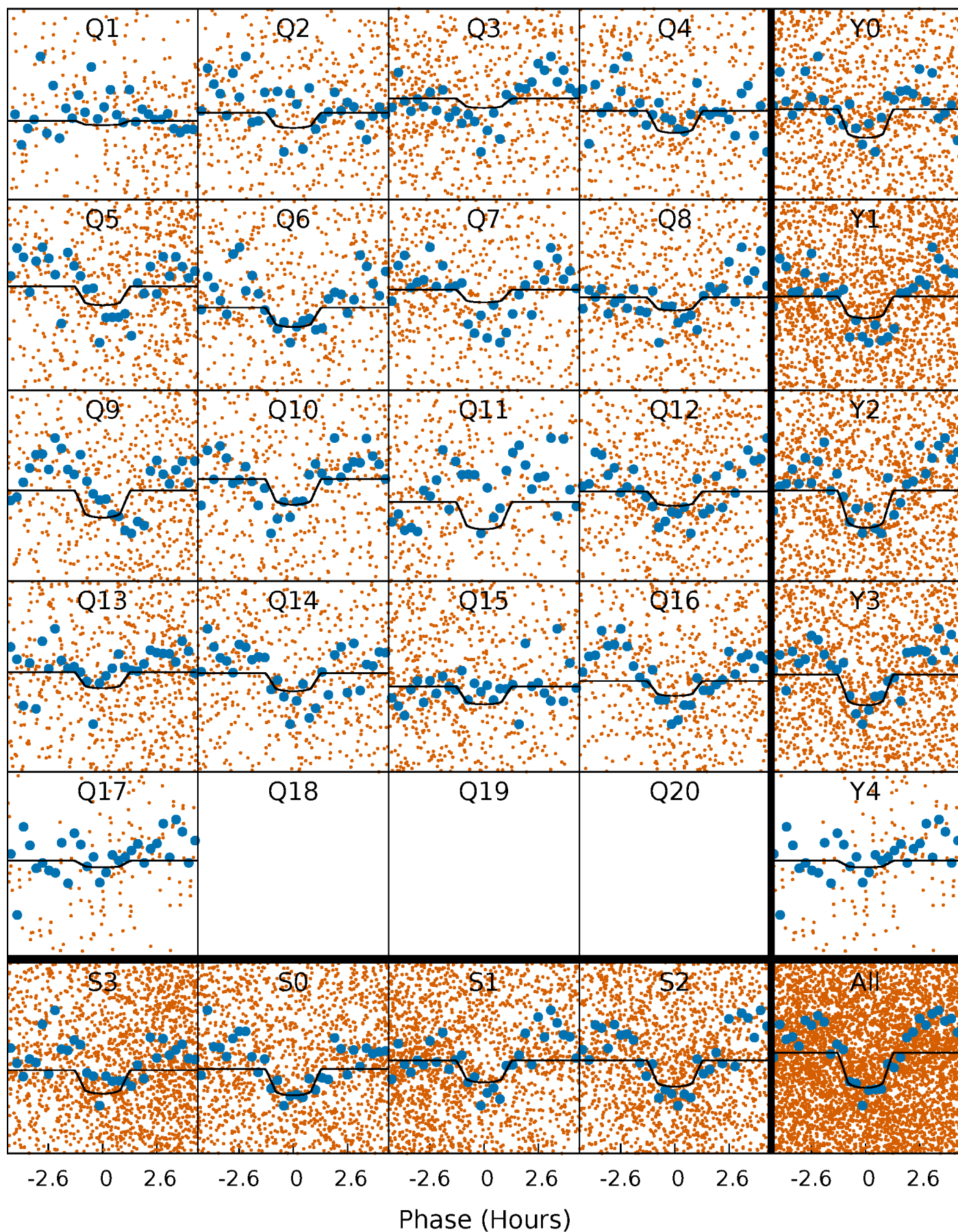
PDC Quarter-Phased Transit Curves

TCE 008264708-03 P= 0.769926 Days $T_0=132.167085$ (BKJD)



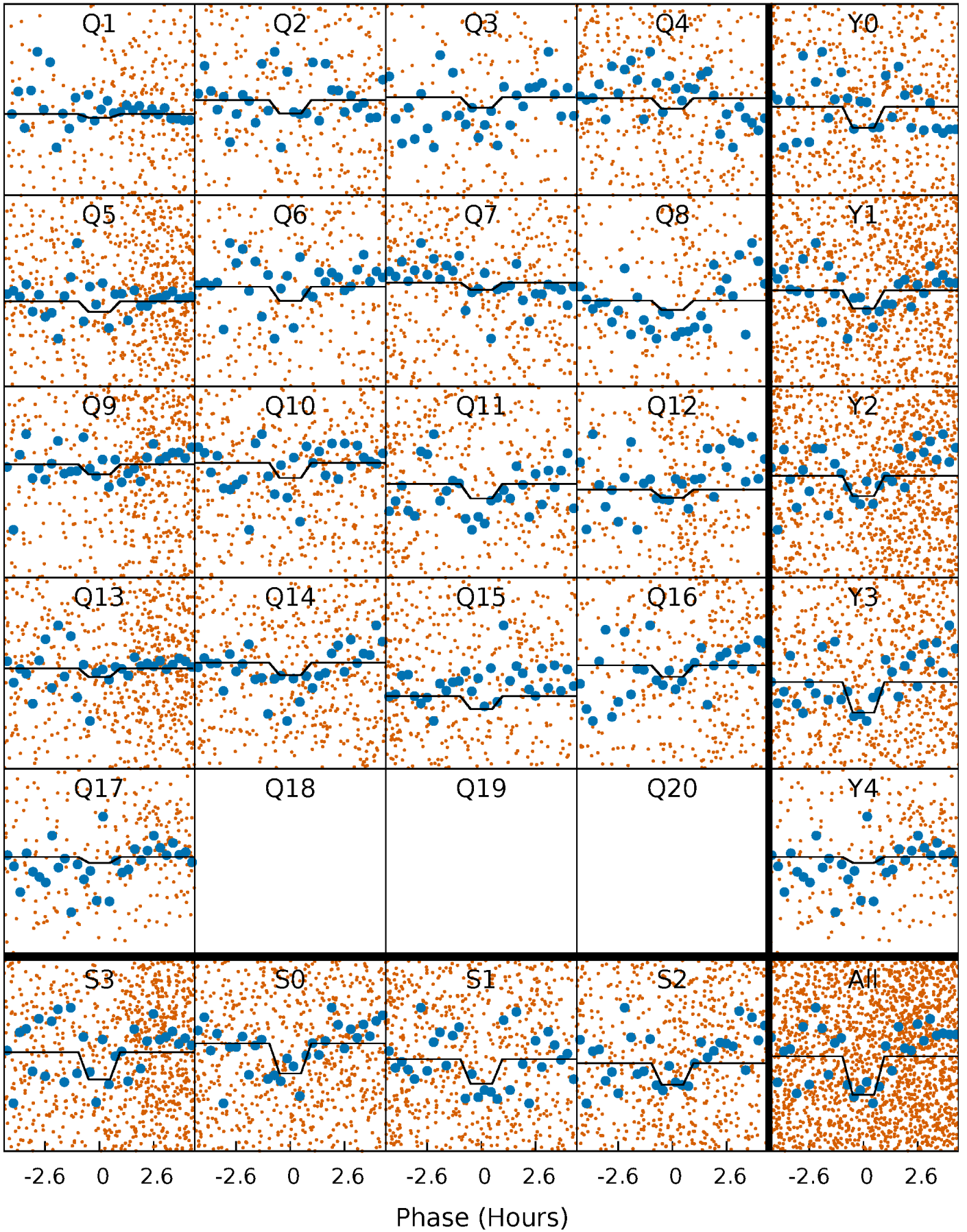
DV Quarter-Phased Transit Curves

TCE 008264708-03 P= 0.769926 Days $T_0=132.167085$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

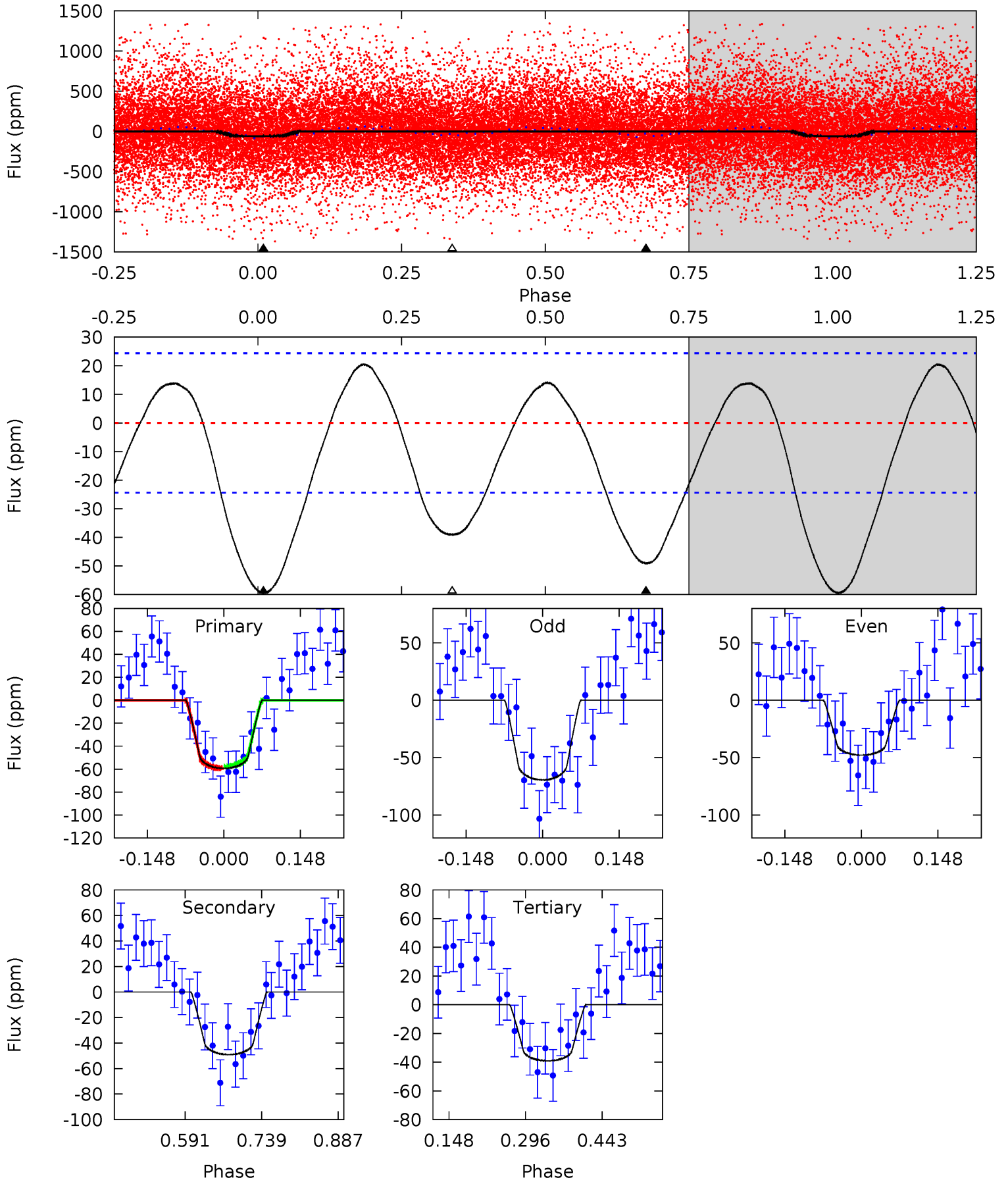
TCE 008264708-03 P= 0.769928 Days $T_0=132.166596$ (BKJD)



DV Model-Shift Uniqueness Test

008264708-03, P = 0.769926 Days, E = 131.397159 Days

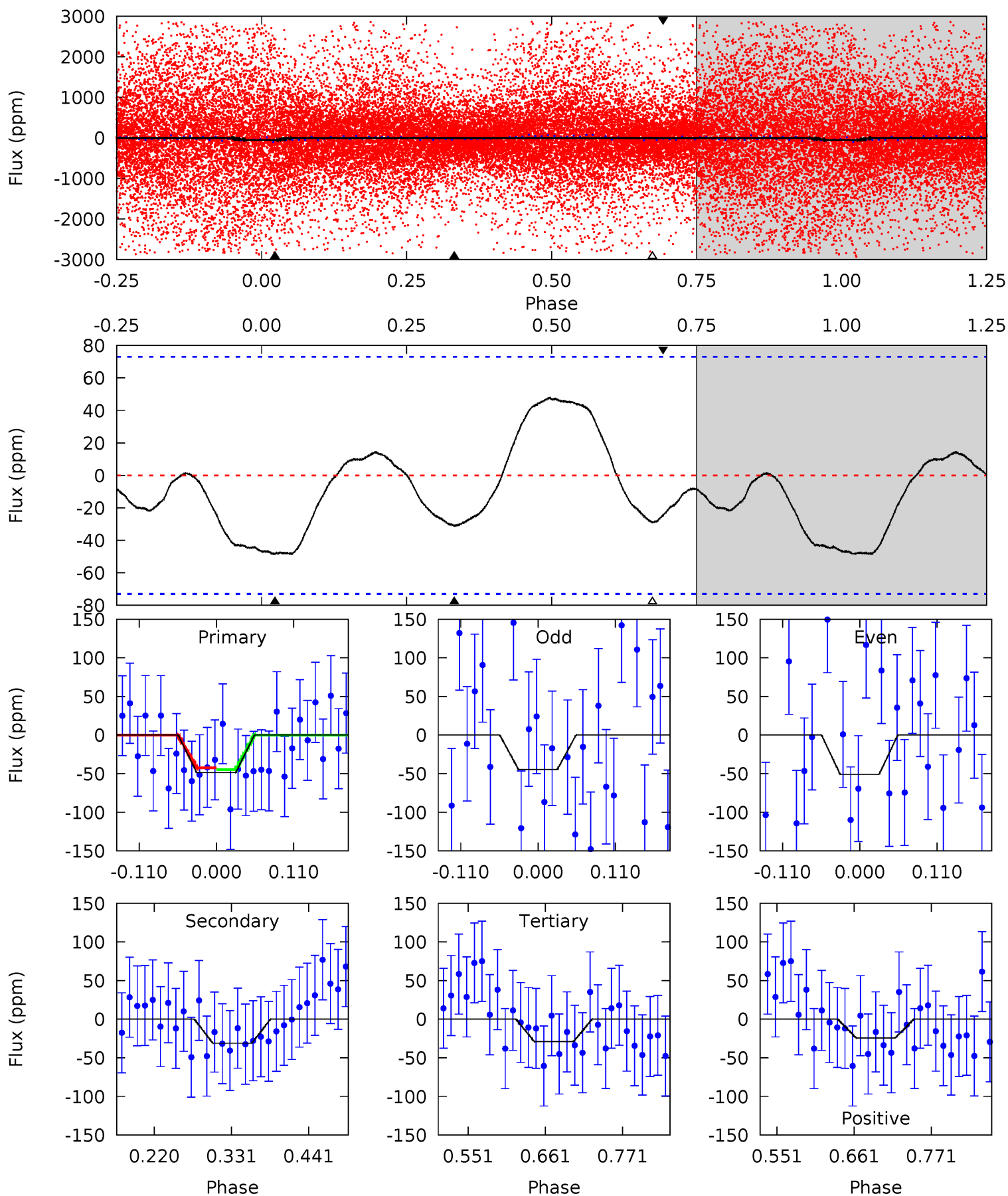
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.9	9.03	7.19	0	4.48	1.45	3.84	3.74	10.9	1.84	9.03	2.00	1.00	0.26	0.16



Alt Model-Shift Uniqueness Test

008264708-03, P = 0.769928 Days, E = 131.396668 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.03	1.93	1.81	-1.52	4.54	1.60	1.52	1.22	4.55	0.12	3.45	0.22	1.22	0.50	0.08



Stellar Parameters For KIC 008264708

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7666^{+216}_{-339}	$4.226^{+0.054}_{-0.229}$	$0.360^{+0.050}_{-0.500}$	$1.702^{+0.573}_{-0.191}$	$1.779^{+0.189}_{-0.231}$	$0.508^{+0.147}_{-0.283}$
	+3%/-4%	+1%/-5%	+14%/-139%	+34%/-11%	+11%/-13%	+29%/-56%
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 008264708-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-49 ± 5	$1.48^{+0.70}_{-0.66}$	4461^{+340}_{-255}	7186^{+3553}_{-1412}	$4.782^{+10.559}_{-2.568}$
Alt.	-31 ± 16	$1.41^{+0.68}_{-0.59}$	4450^{+330}_{-252}	6292^{+2933}_{-1587}	$3.097^{+6.856}_{-2.098}$

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

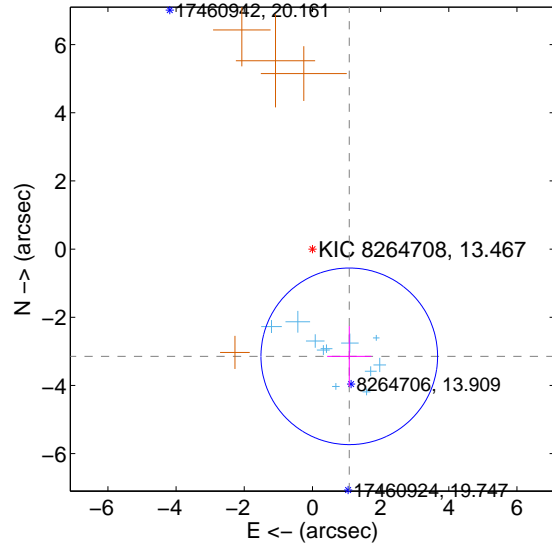
Supplemental centroid analysis for 008264708-03. Kepler magnitude: 13.47. Transit SNR 7.44

There are 11 quarters with good PRF difference image offsets

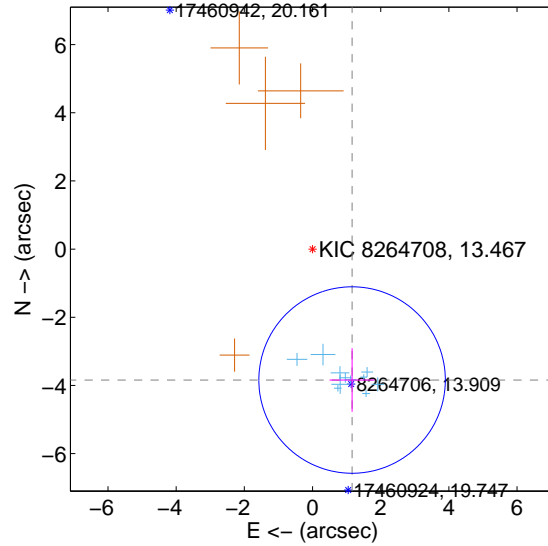
The direct PRF centroid is offset from the target star catalog position by about 1.21 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.325 ± 0.863	3.85	-1.080 ± 0.648	-3.145 ± 0.886
PRF-fit source offset from KIC position	4.012 ± 0.912	4.40	-1.160 ± 0.661	-3.841 ± 0.932
photometric centroid source offset	2.77 ± 0.72	3.86	0.70 ± 0.64	-2.68 ± 0.72

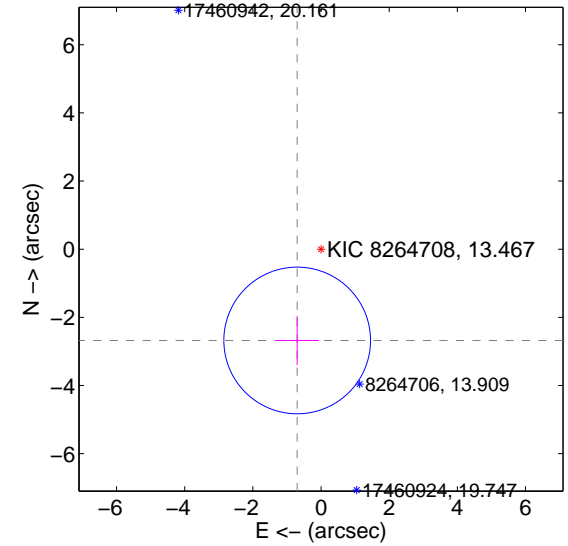
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

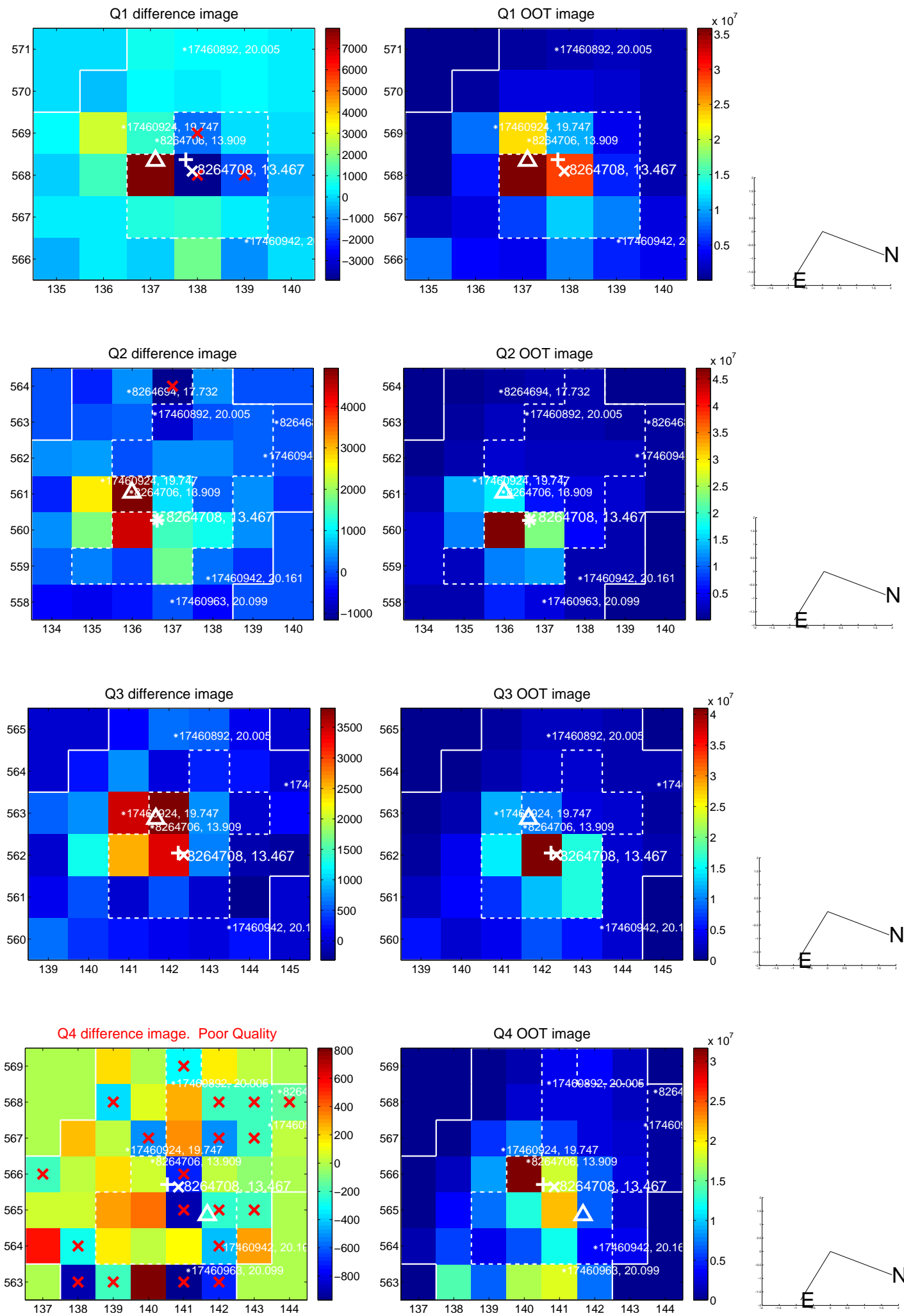


offset from photometric centroids

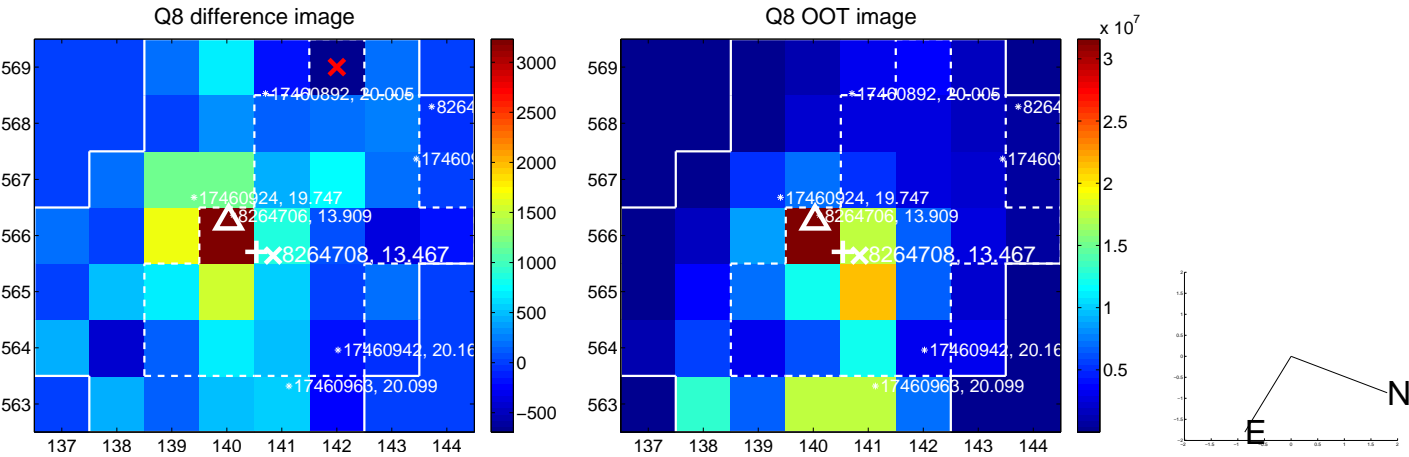
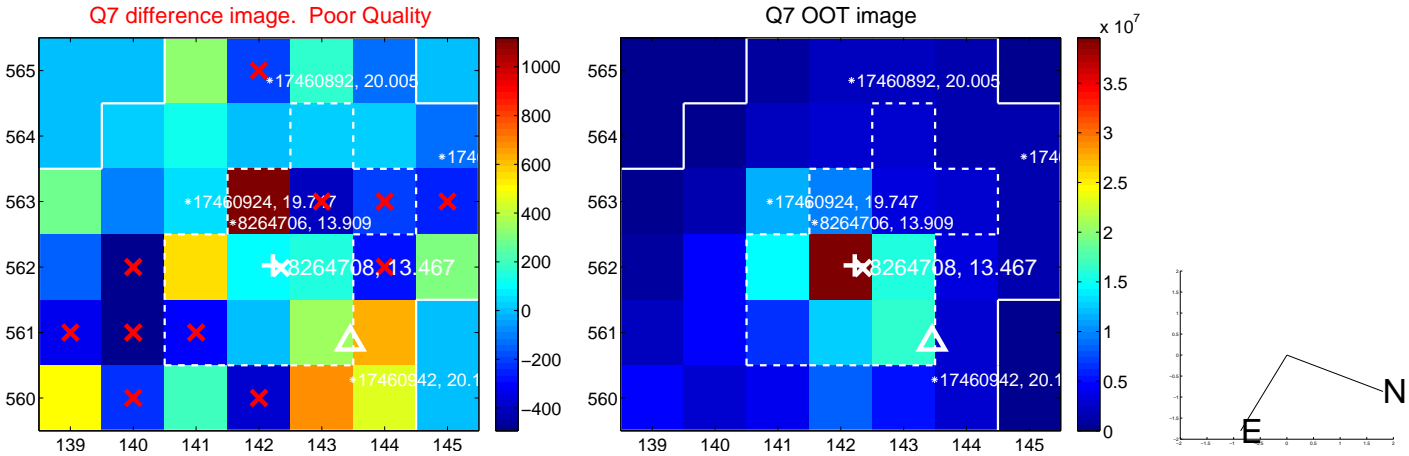
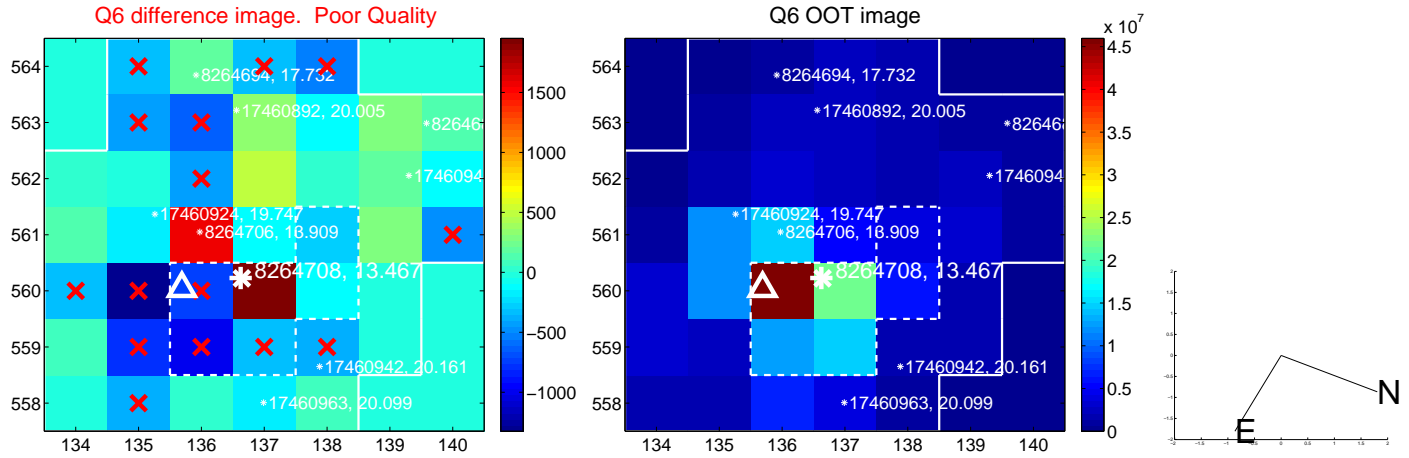
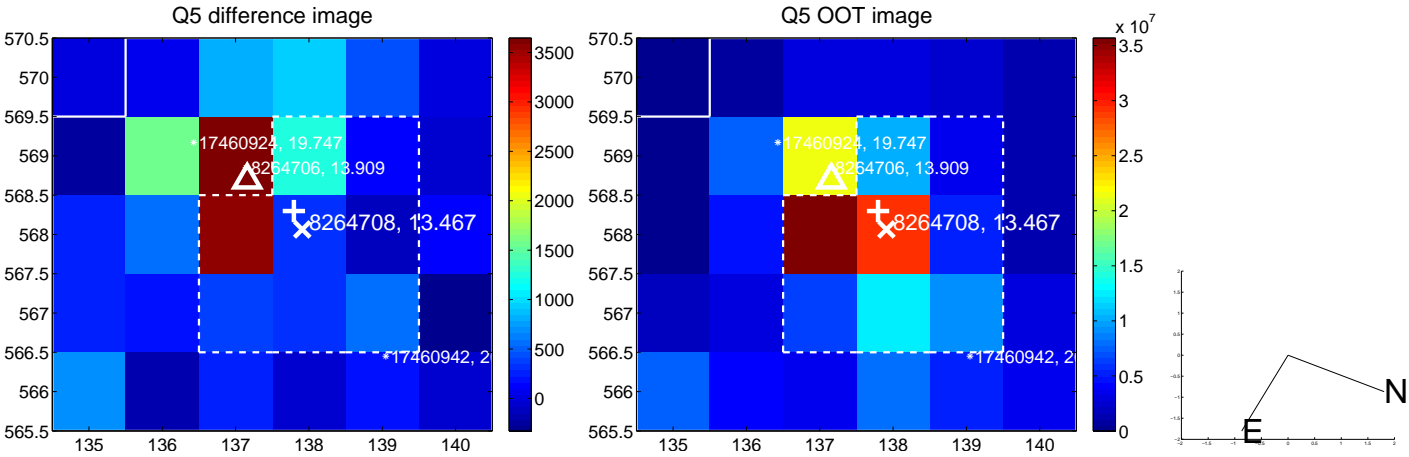


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

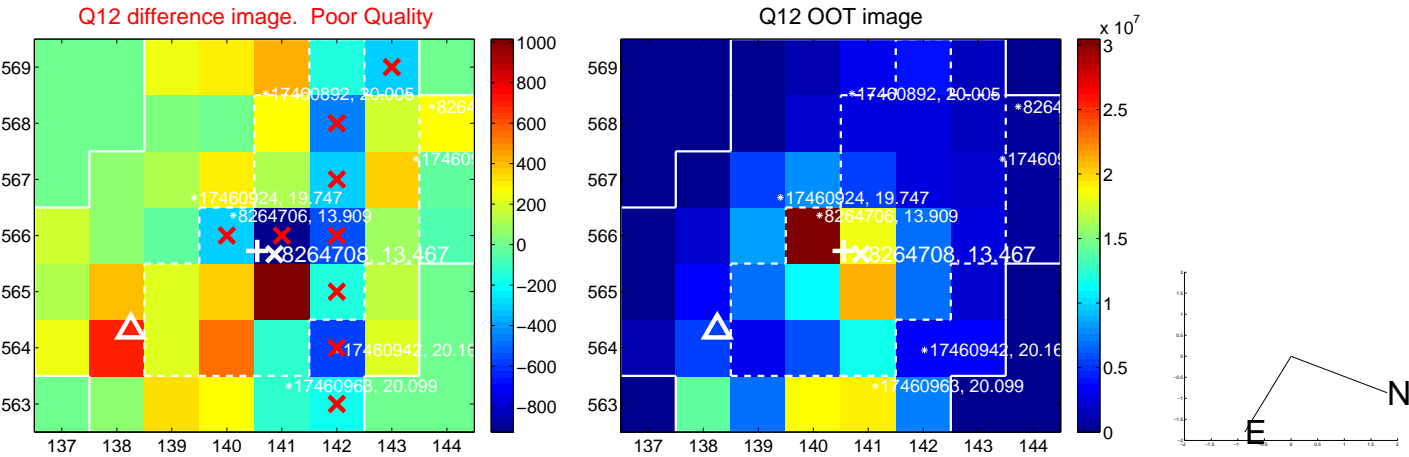
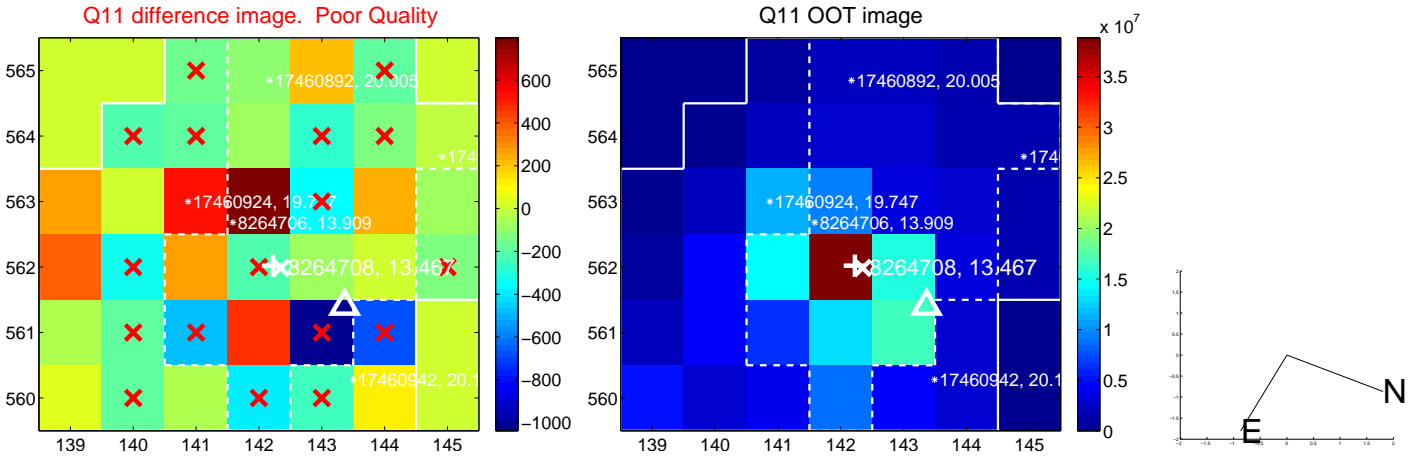
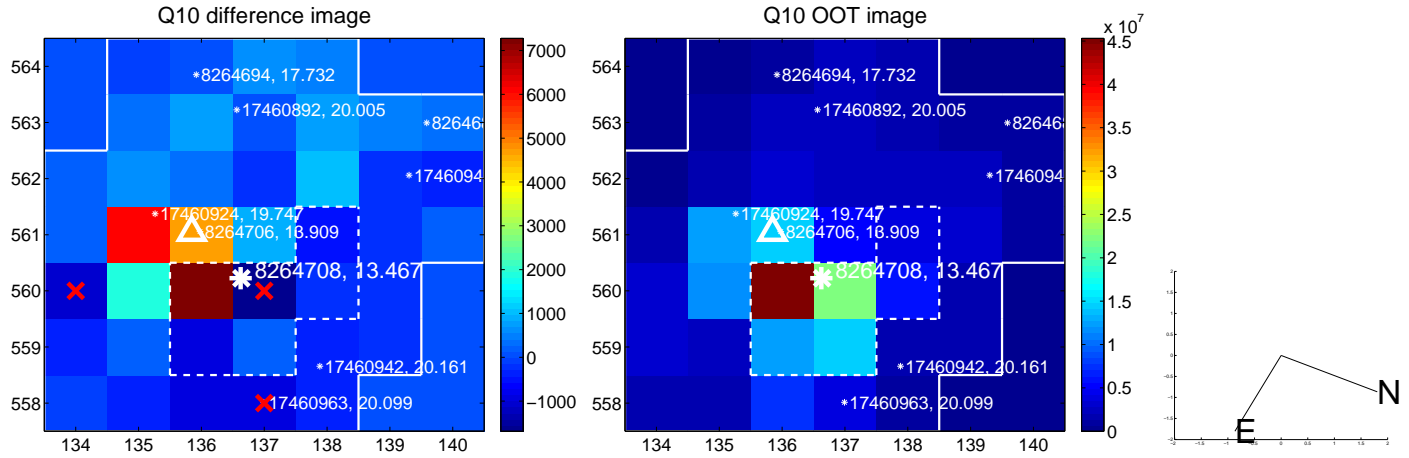
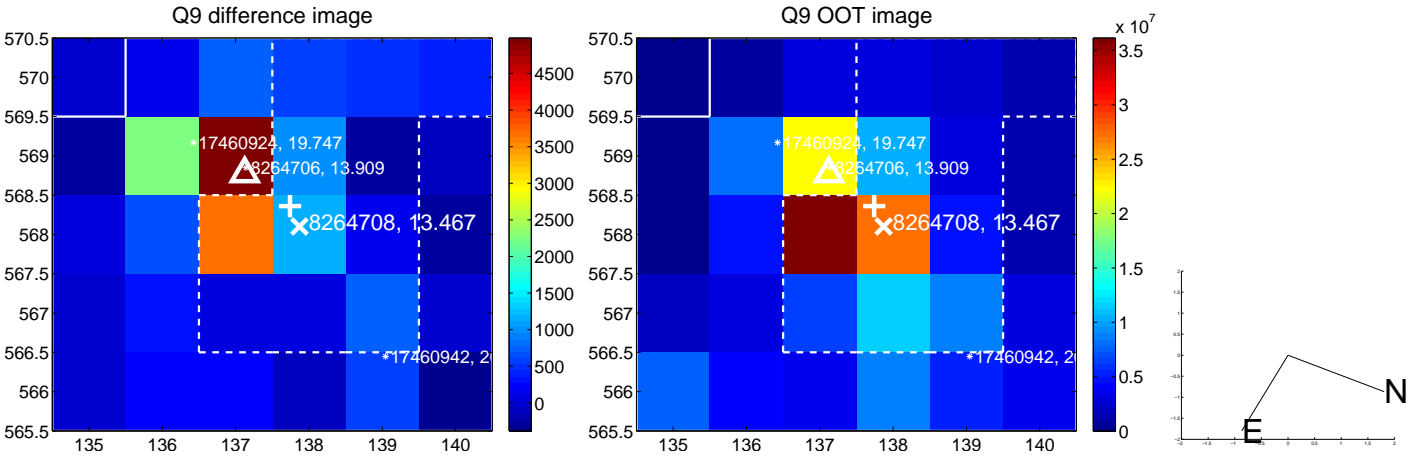
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



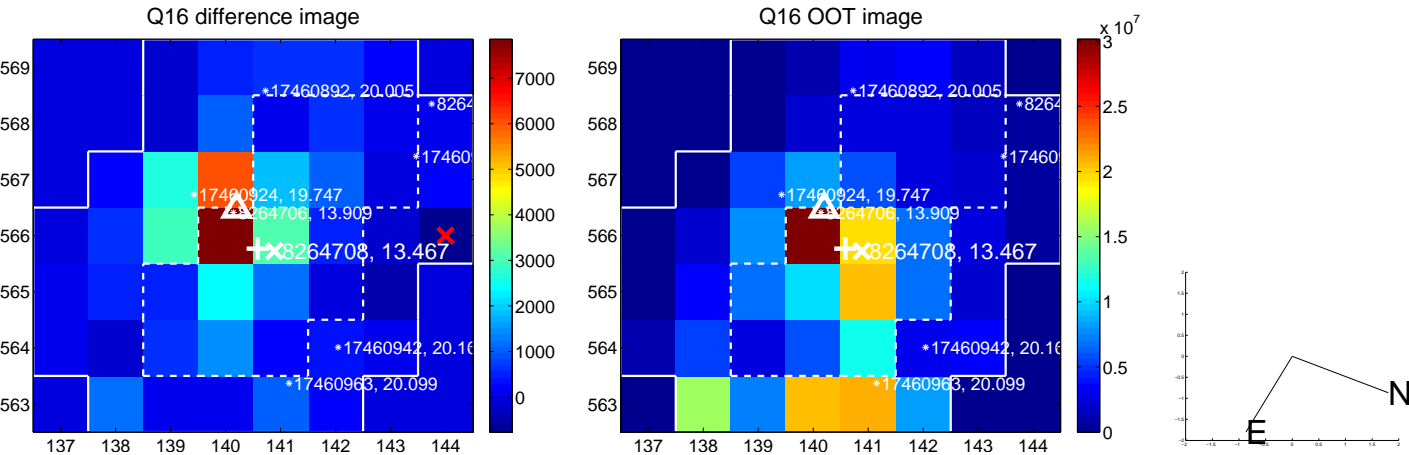
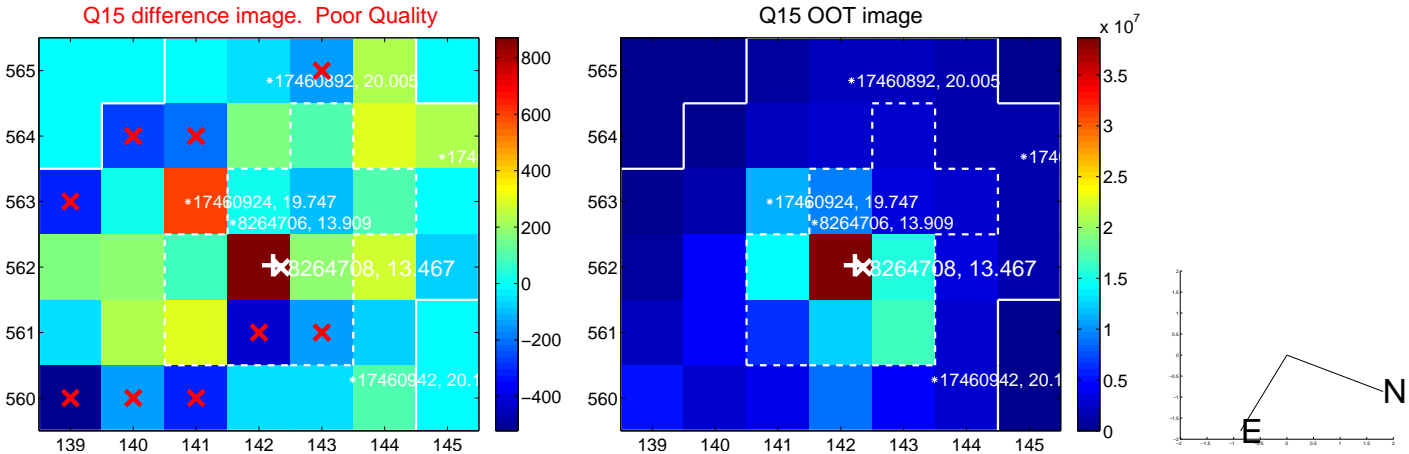
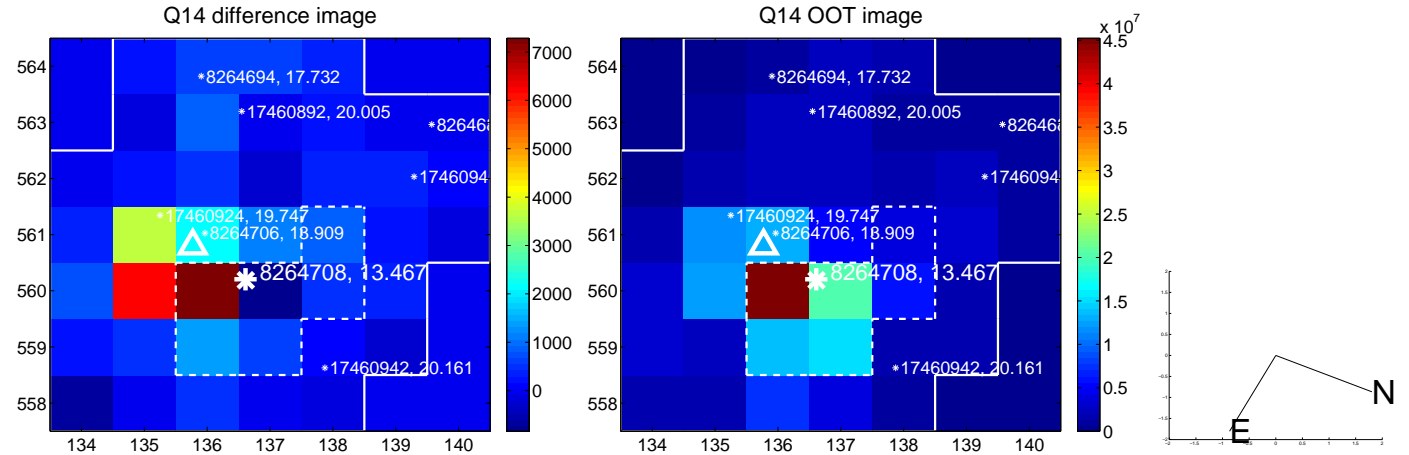
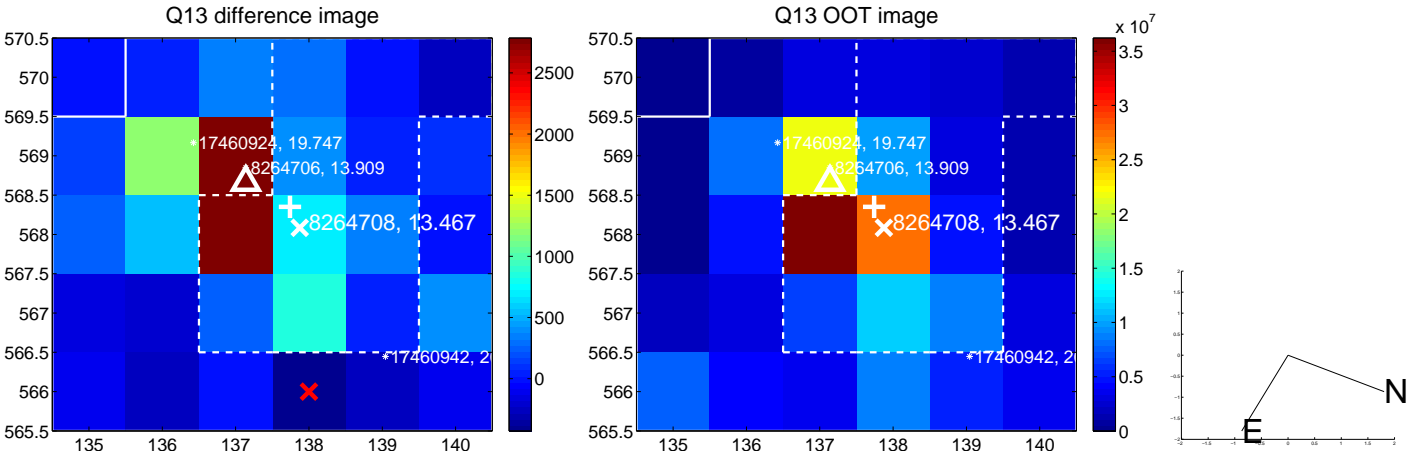
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



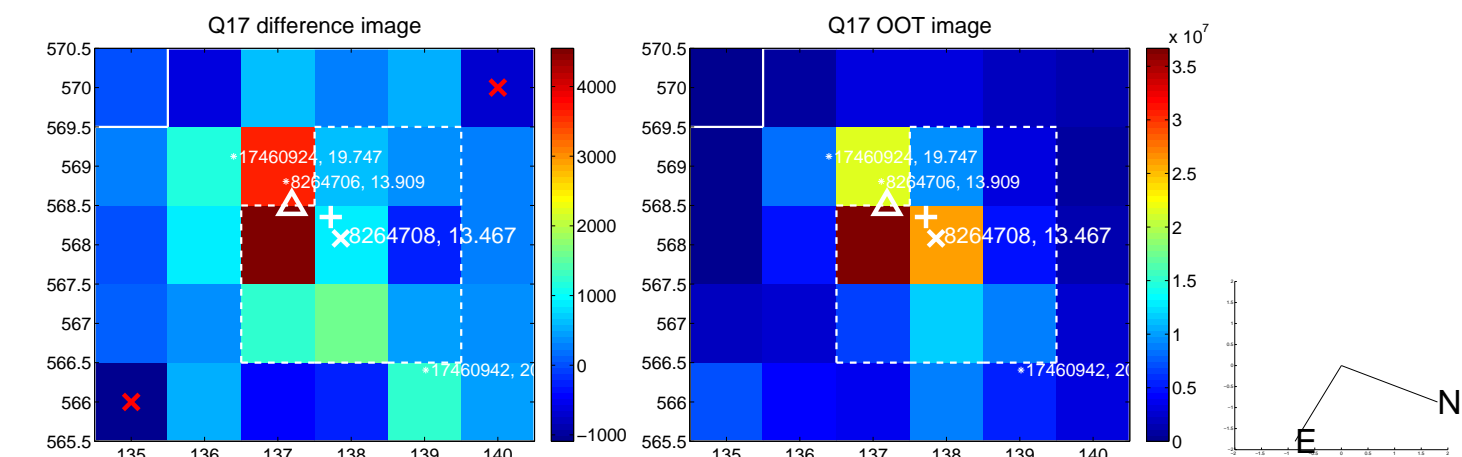
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



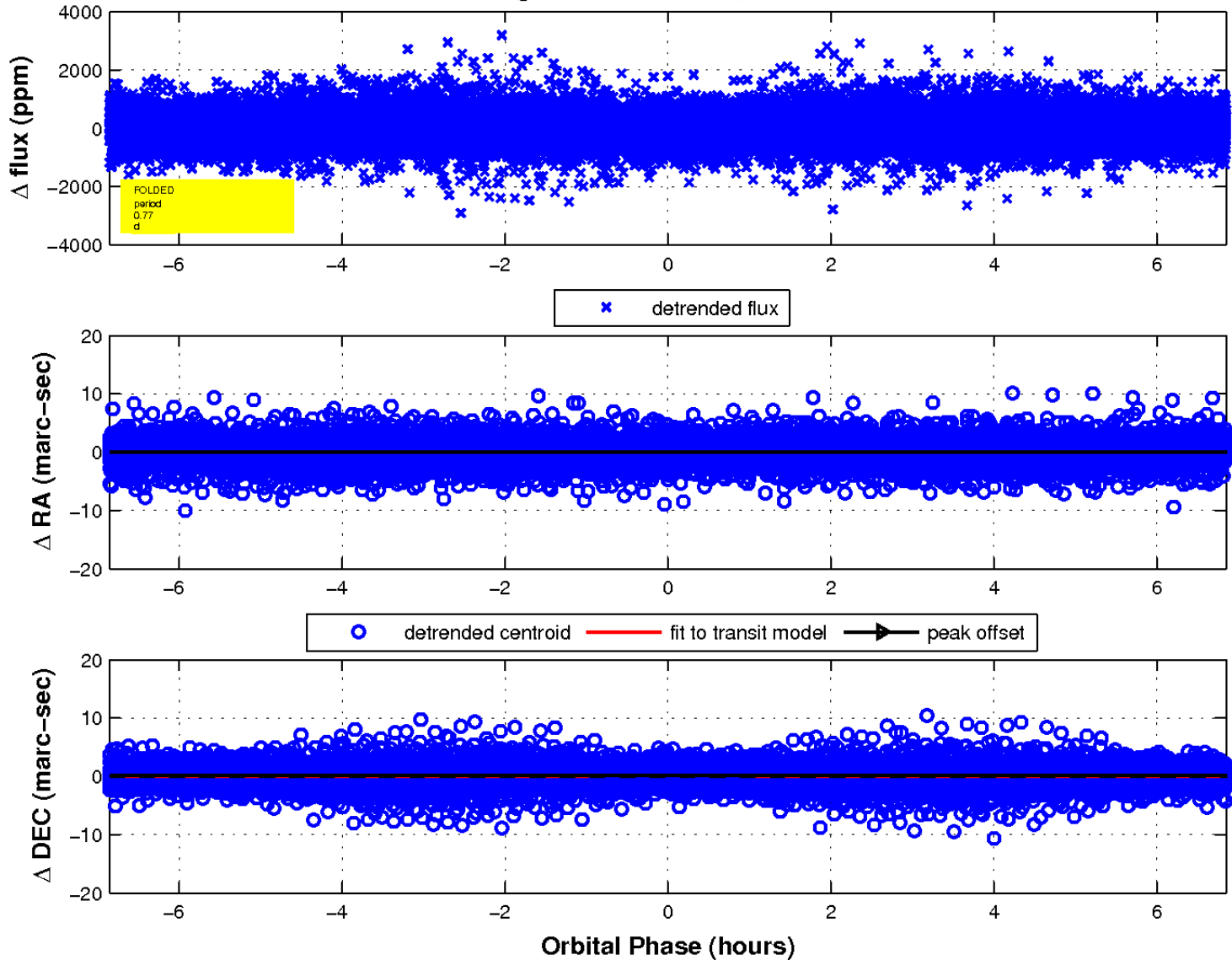
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



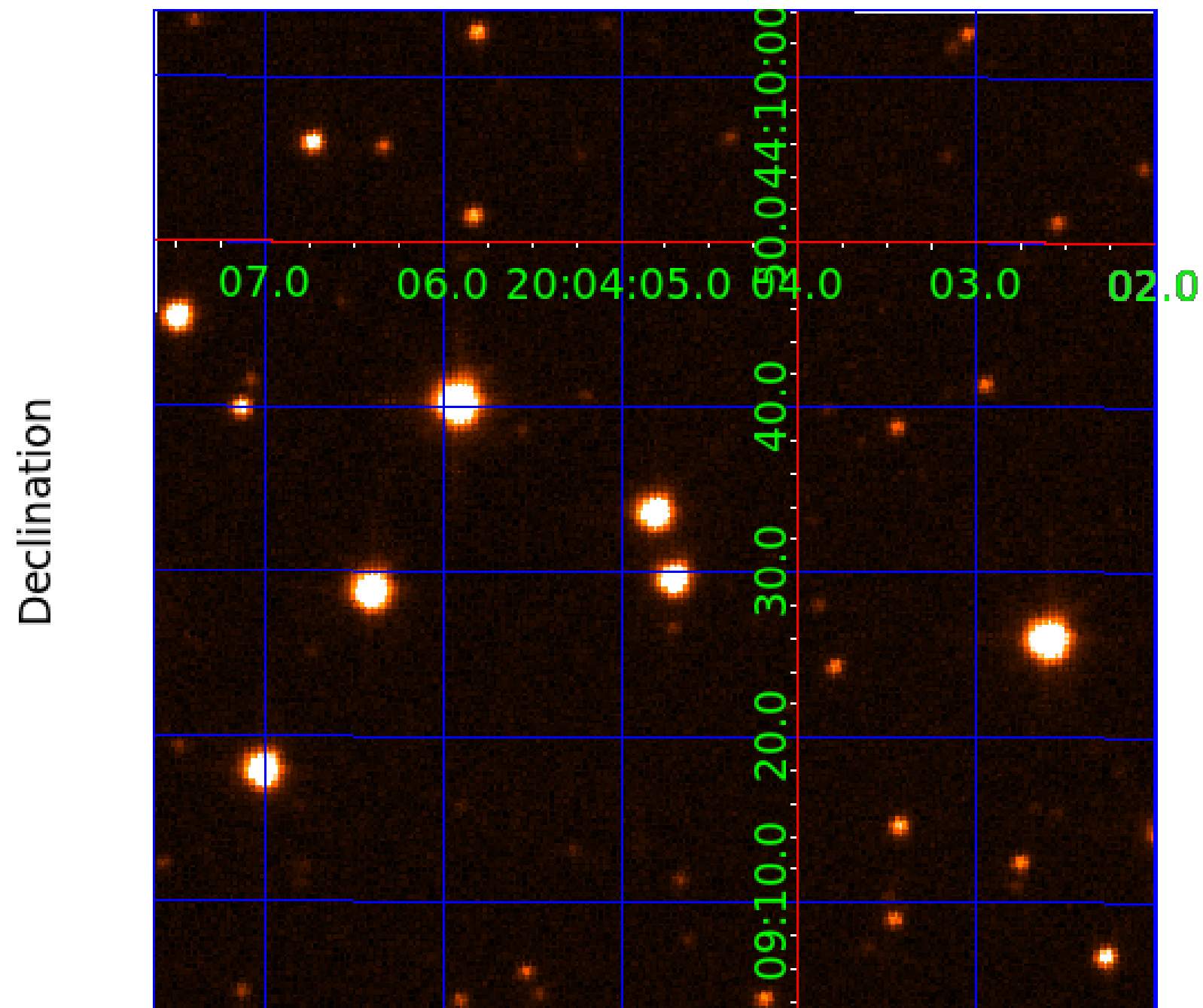
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 3 of 5



UKIRT Image



KIC 008264708

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})
008264708-01	OBS	No	2.314758	132.306826	41.8	9.948	8.8	8.2	1.70	7666	1.29	5205.57
008264708-02	OBS	No	199.851119	257.218504	520.3	4.092	15.3	5.9	1.70	7666	4.36	13.64
008264708-03	OBS	No	0.769926	132.167085	49.7	2.286	8.6	7.4	1.70	7666	1.39	22587.97
008264708-04	OBS	No	245.578938	211.935546	351.8	9.850	9.8	6.2	1.70	7666	3.47	10.37
008264708-05	OBS	No	183.807534	132.904901	661.5	4.794	7.3	6.5	1.70	7666	4.88	15.25

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264708-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—CENT_UNRESOLVED_OFFSET
008264708-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
008264708-03	OBS	FP	0.00	1	0	1	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET
008264708-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008264708-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_KIC_POS

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

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

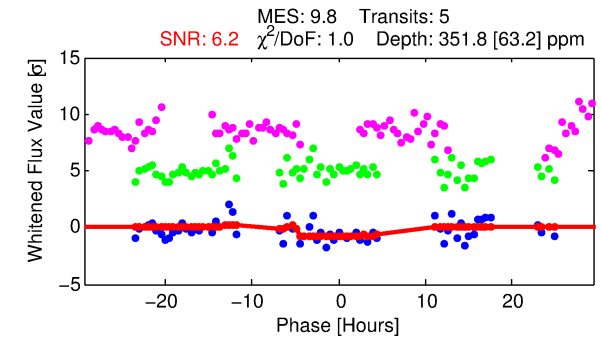
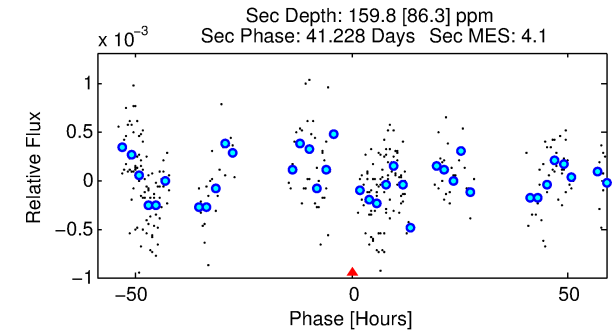
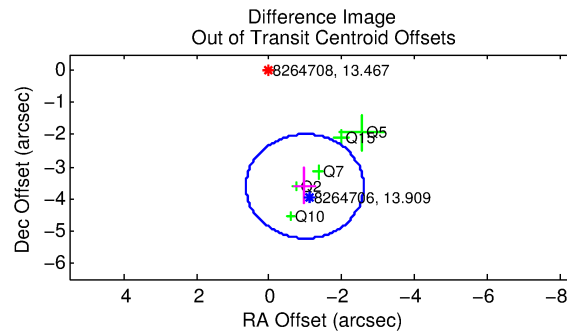
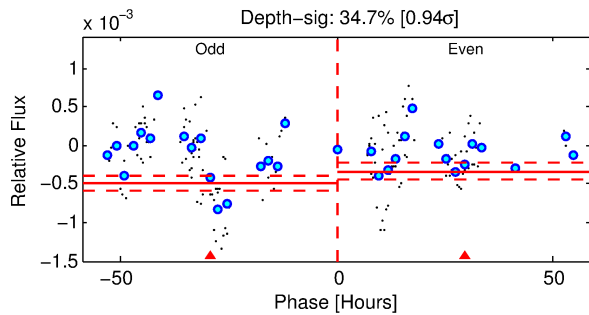
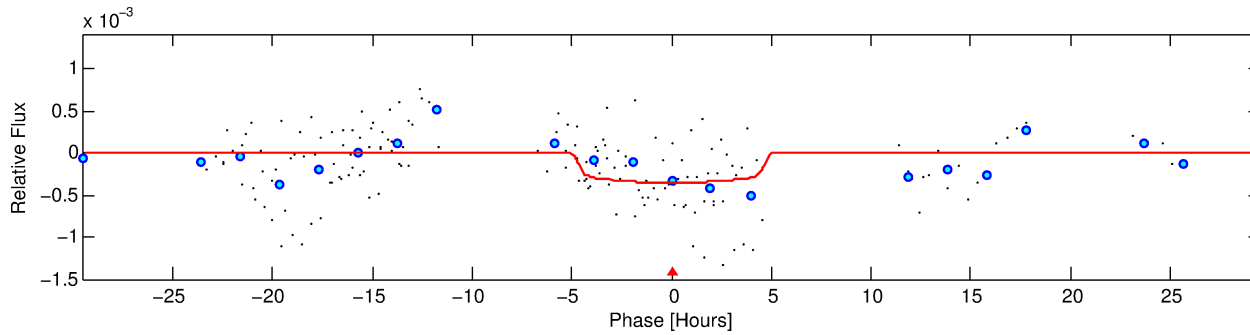
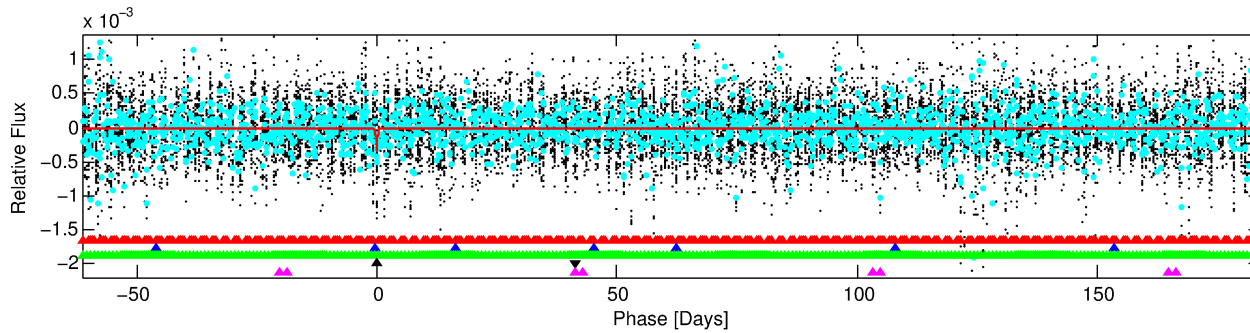
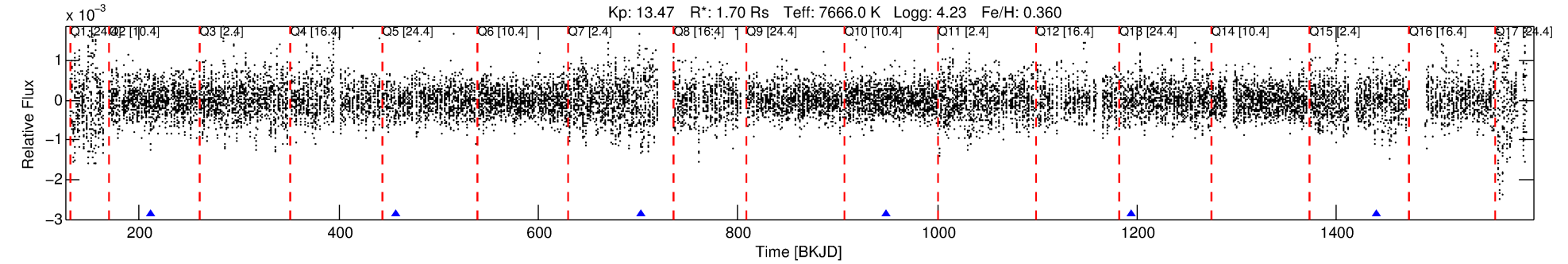
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264708-04

No Significant Match Found

DV One-Page Summary

KIC: 8264708 Candidate: 4 of 5 Period: 245.579 d



DV Fit Results:

Period = 245.57894 [0.00869] d
Epoch = 211.9355 [0.0282] BKJD
Rp/R* = 0.0187 [0.0132]
a/R* = 129.48 [565.65]
b = 0.76 [2.45]
Seff = 10.36 [4.70]
Teq = 458 [52] K
Rp = 3.47 [2.72] Re
a = 0.9300 [0.2651] AU
Ag = 6309.70 [9916.94] [0.64σ]
Teffp = 6305 [2405] K [2.43σ]

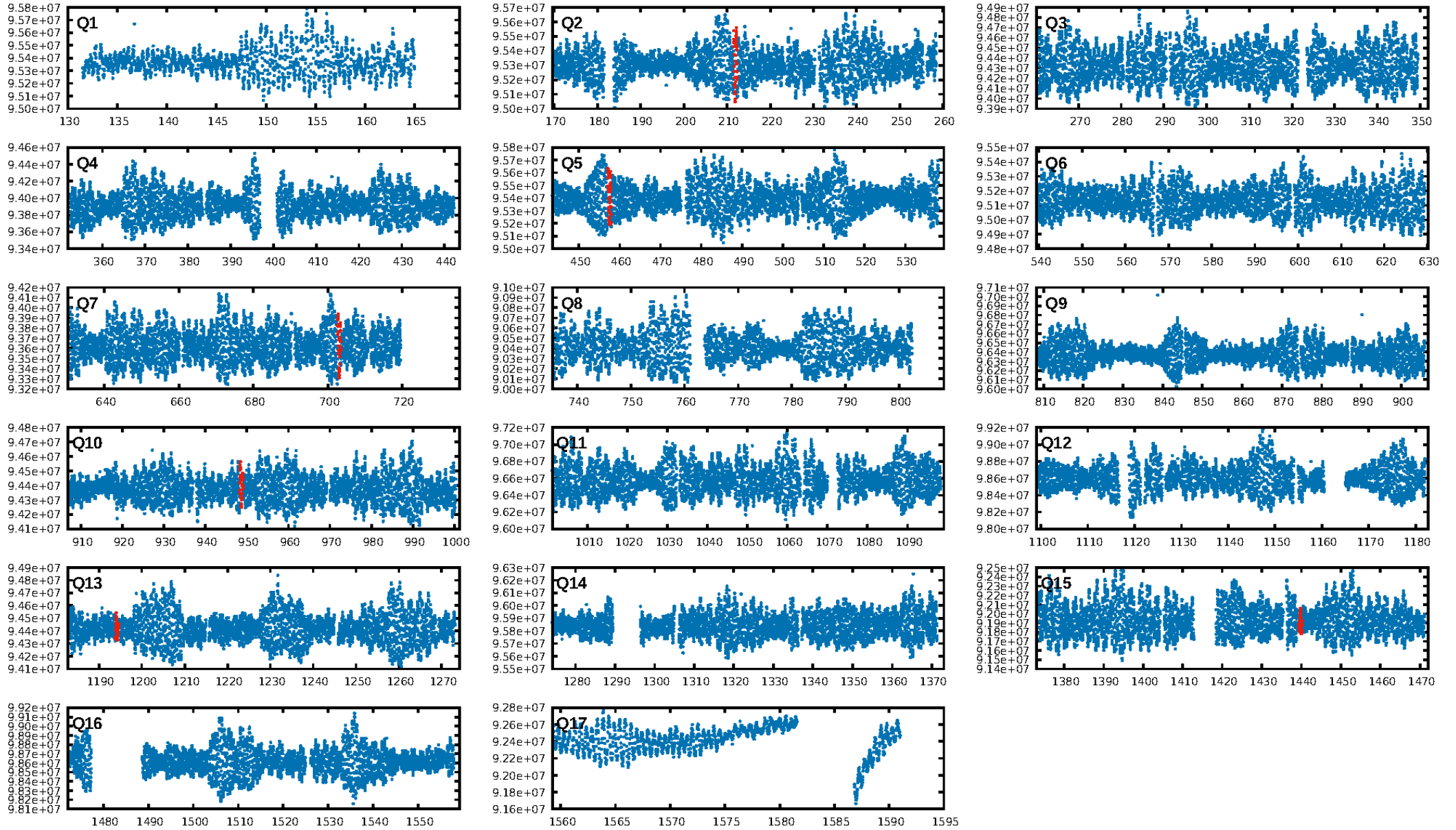
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [102.90σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.2%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 9.54e-13
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -0.4784
Centroid-sig: 84.8%
Centroid-so: 1.788 arcsec [1.81σ]
OotOffset-rm: 3.742 arcsec [6.93σ]
KicOffset-rm: 3.658 arcsec [11.90σ]
OotOffset-st: 2/2/0/1 [5]
KicOffset-st: 2/2/0/1 [5]
DiffImageQuality-fgm: 0.60 [3/5]
DiffImageOverlap-fno: 0.00 [0/5]

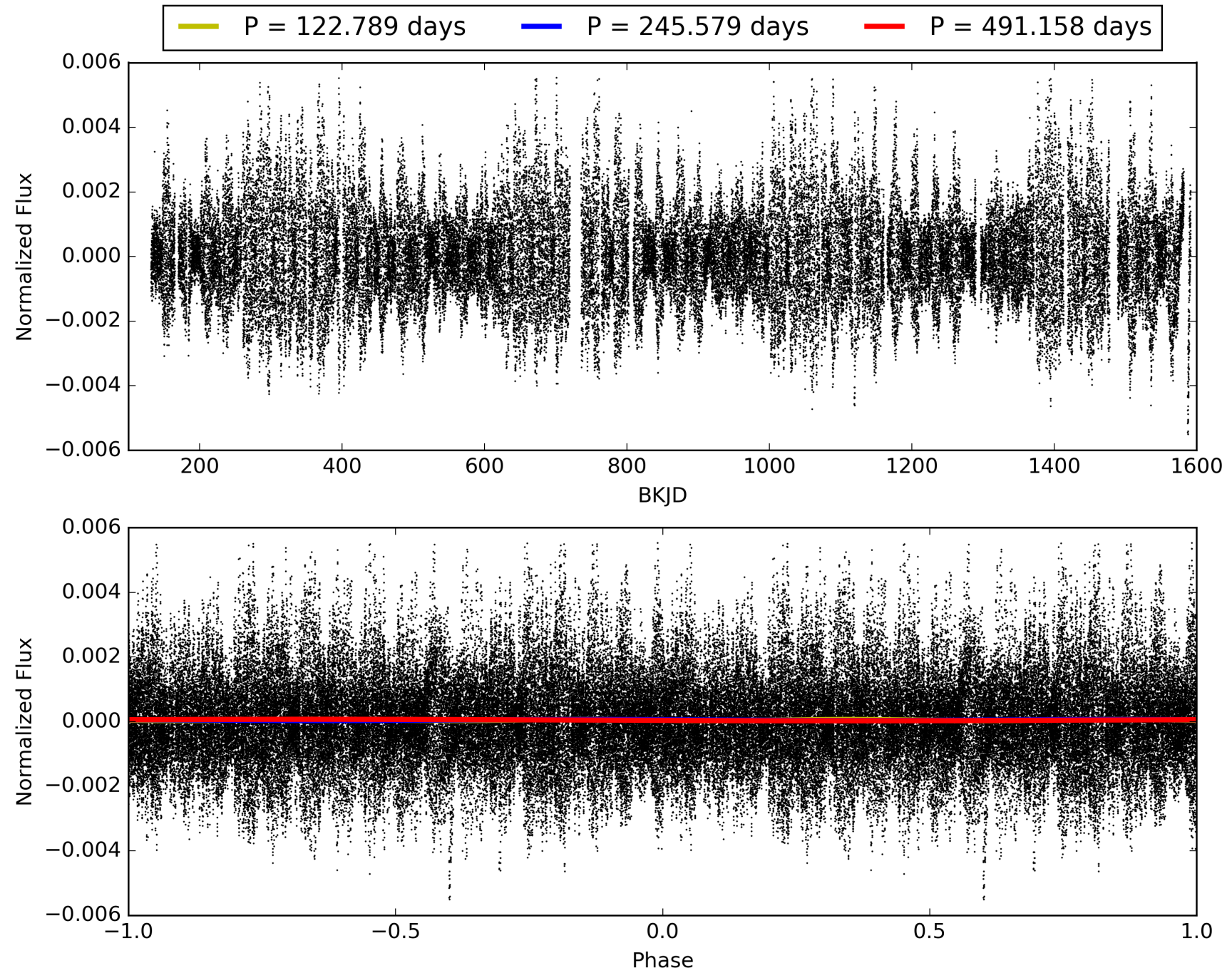
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 15:54:49 Z

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

TCE 008264708-04, PDC Light Curves

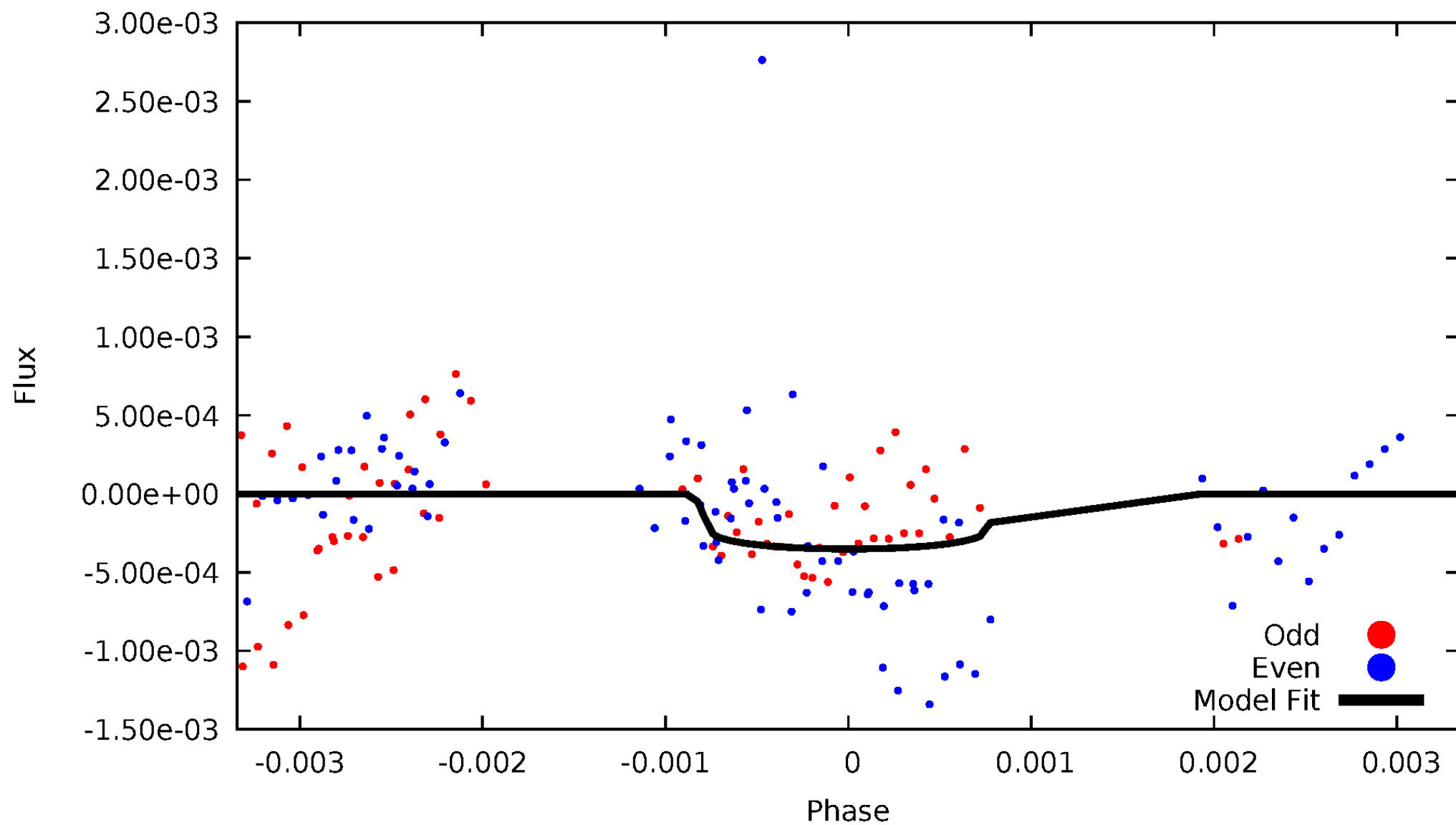


TCE 008264708-04



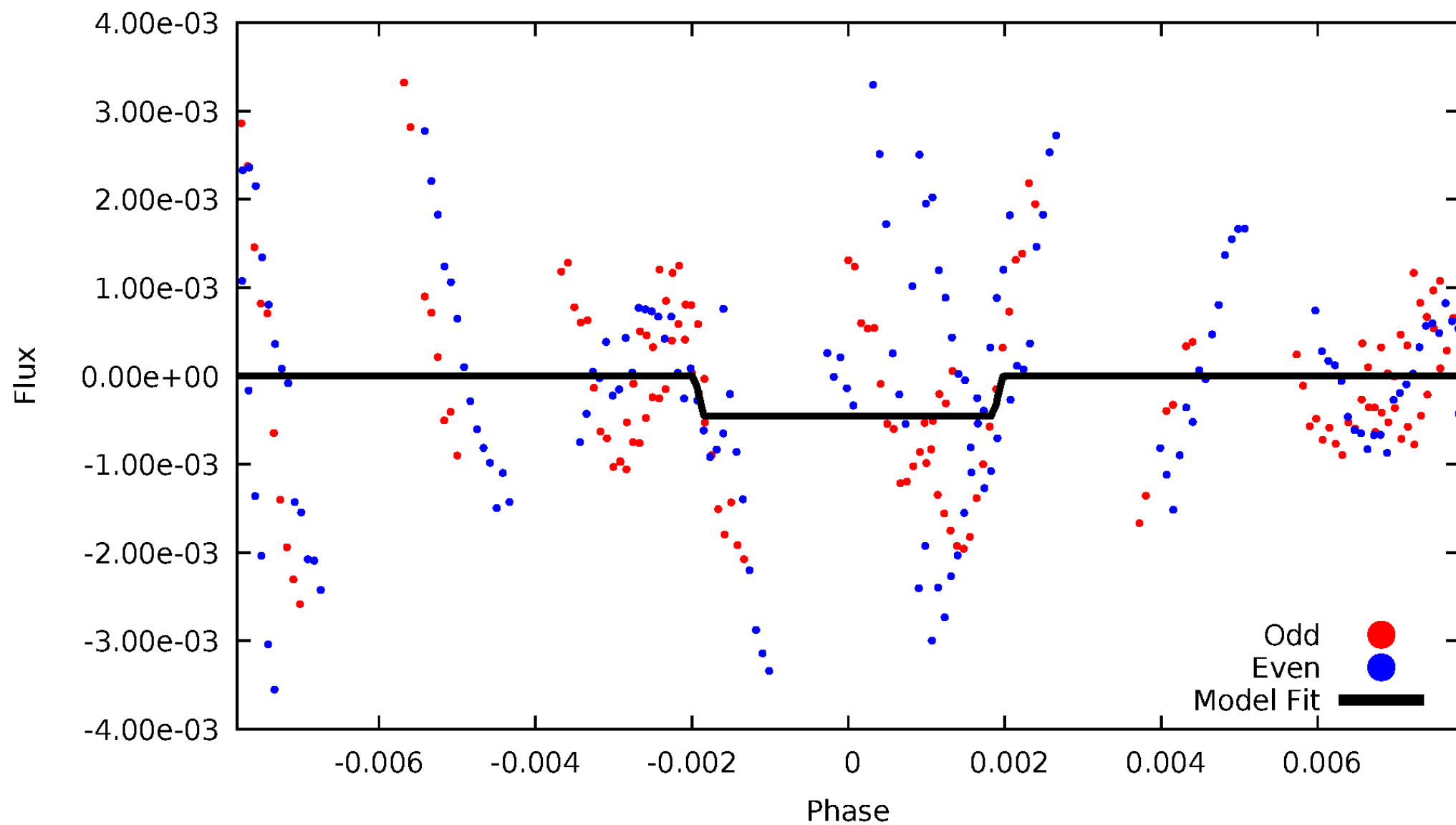
DV Odd/Even

TCE 008264708-04



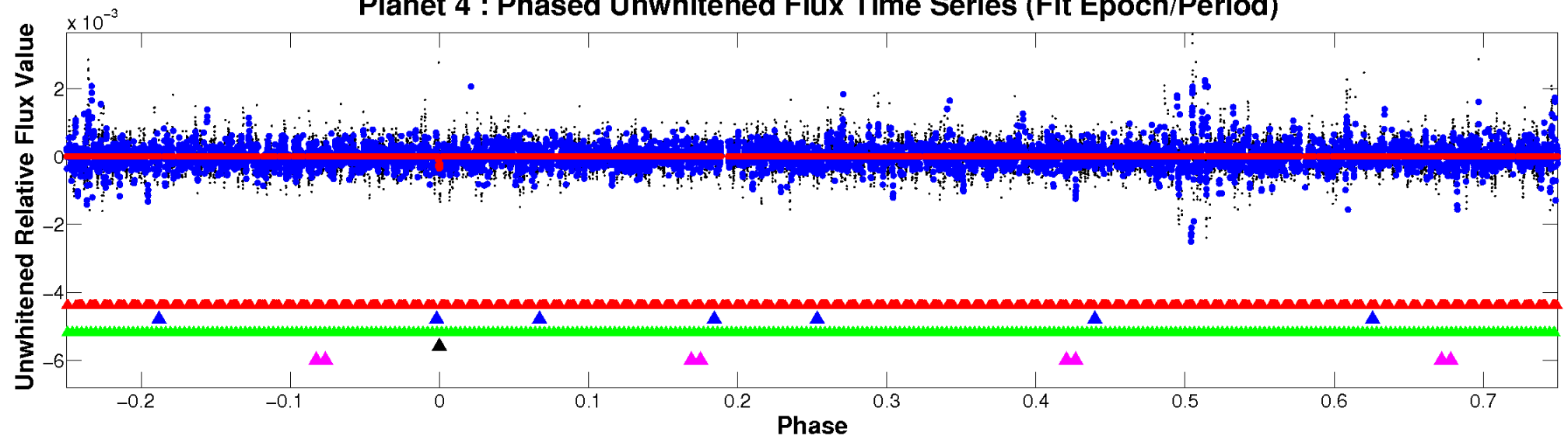
ALT Odd/Even

TCE 008264708-04

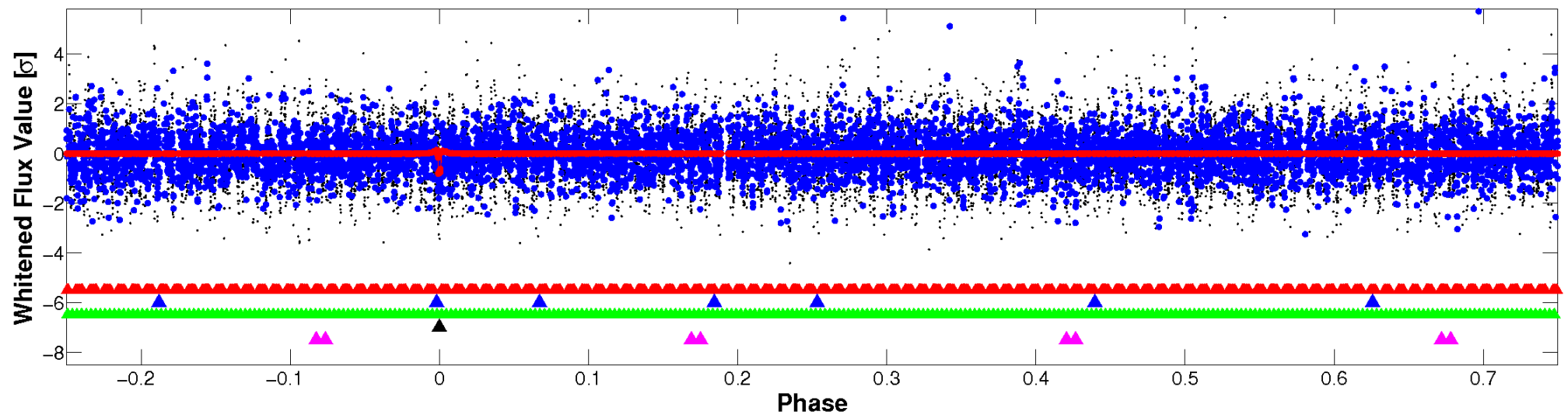


Non-Whitened Vs. Whitened Light Curve

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

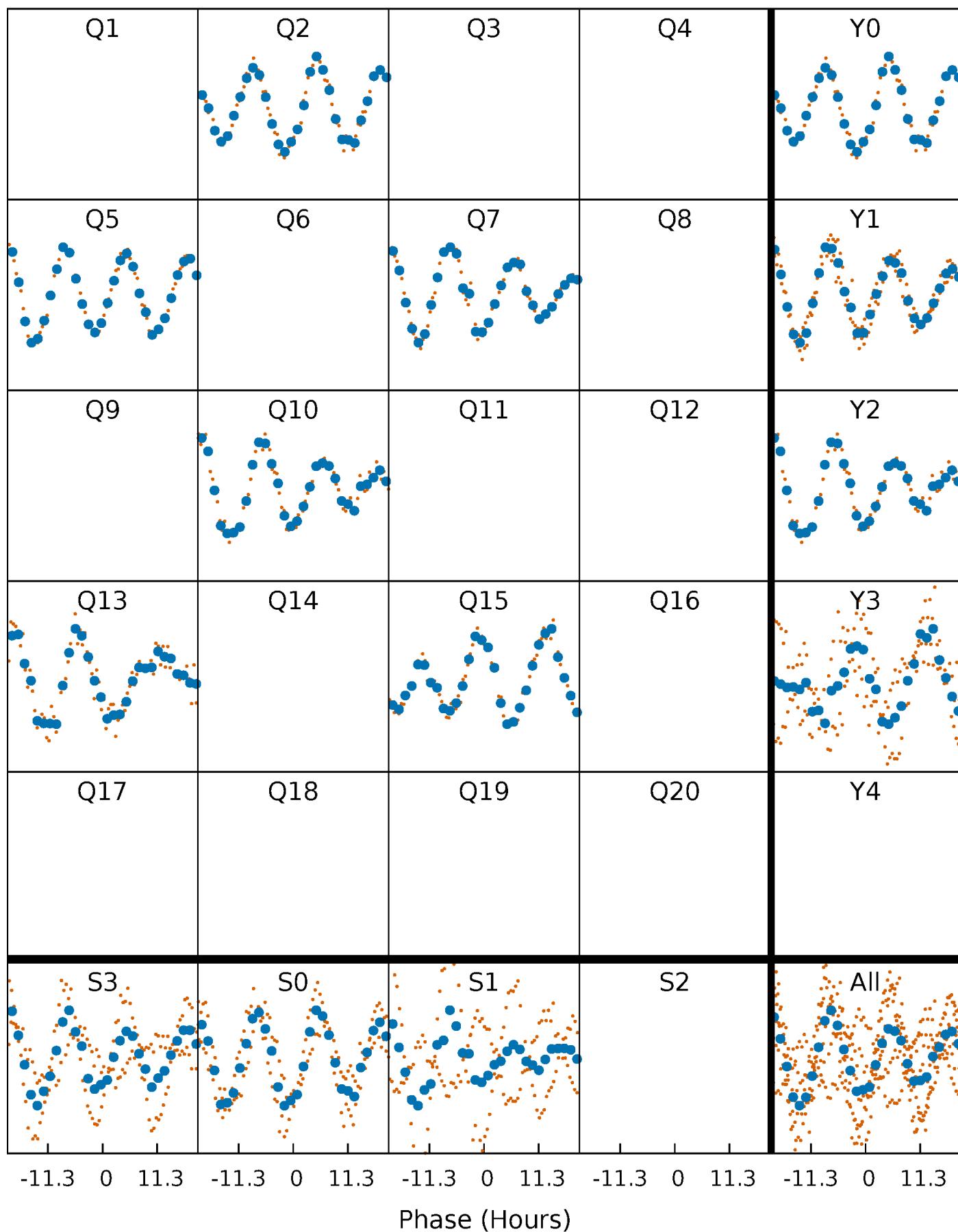


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



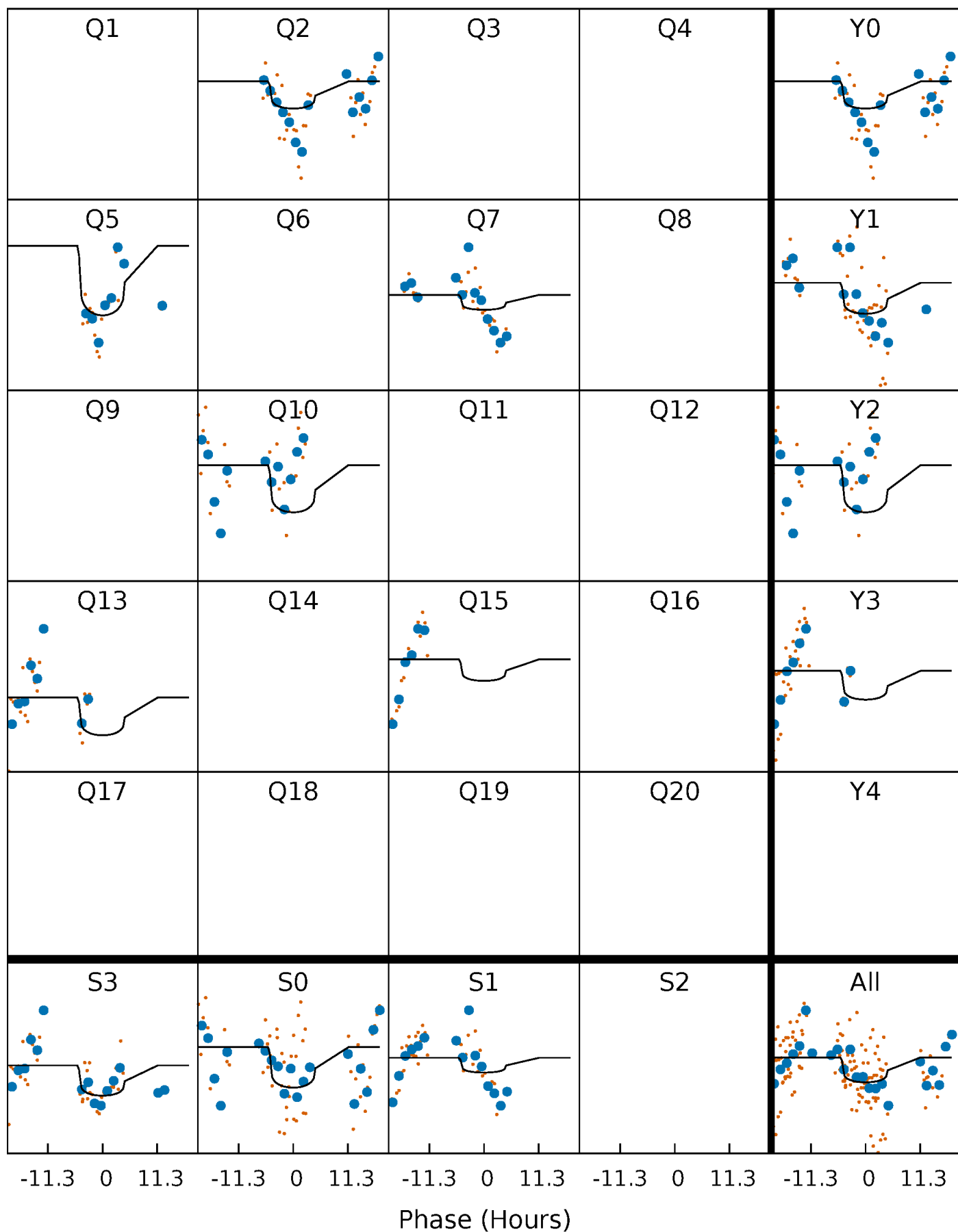
PDC Quarter-Phased Transit Curves

TCE 008264708-04 P=245.578938 Days $T_0=211.935545$ (BKJD)



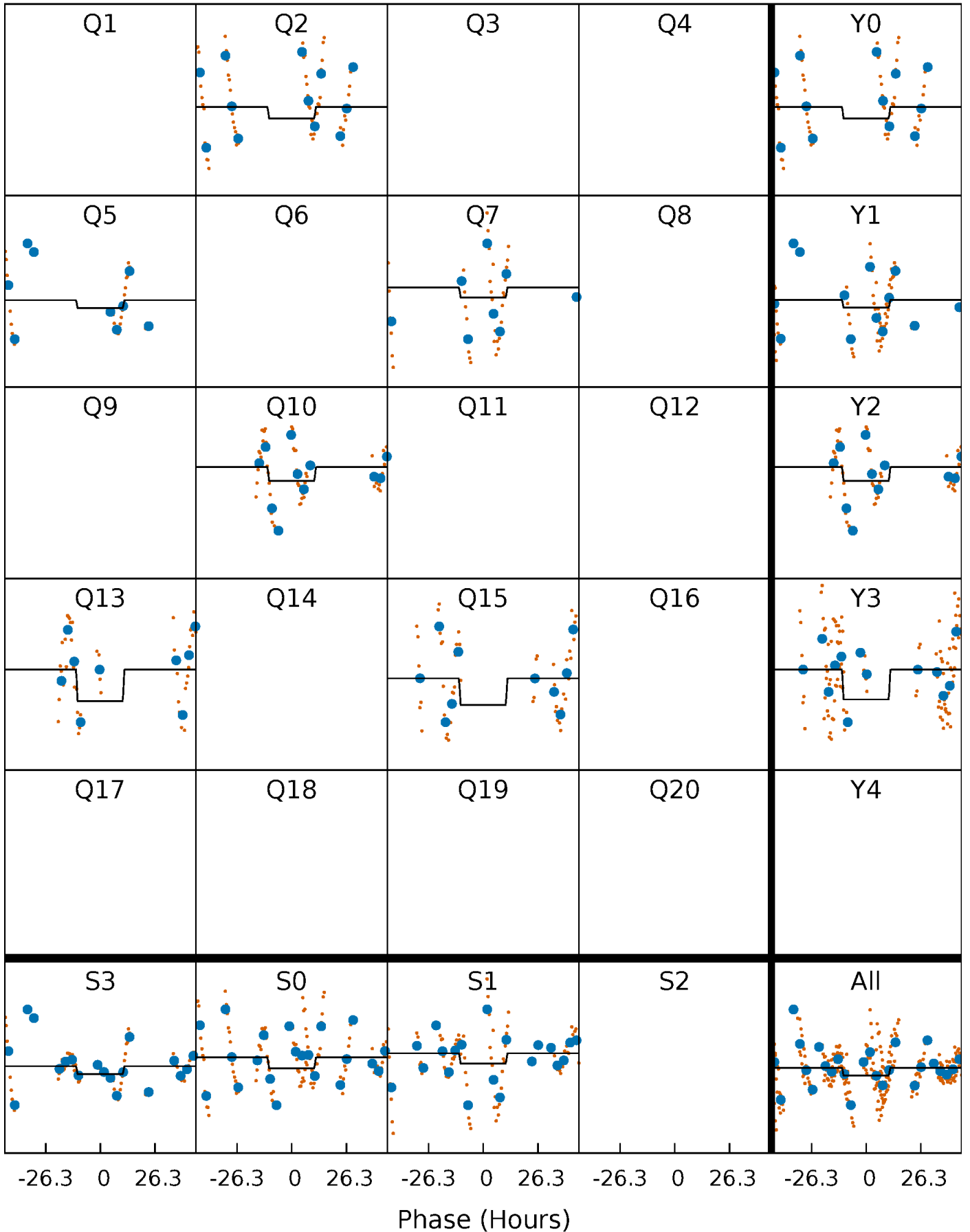
DV Quarter-Phased Transit Curves

TCE 008264708-04 P=245.578938 Days $T_0=211.935545$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

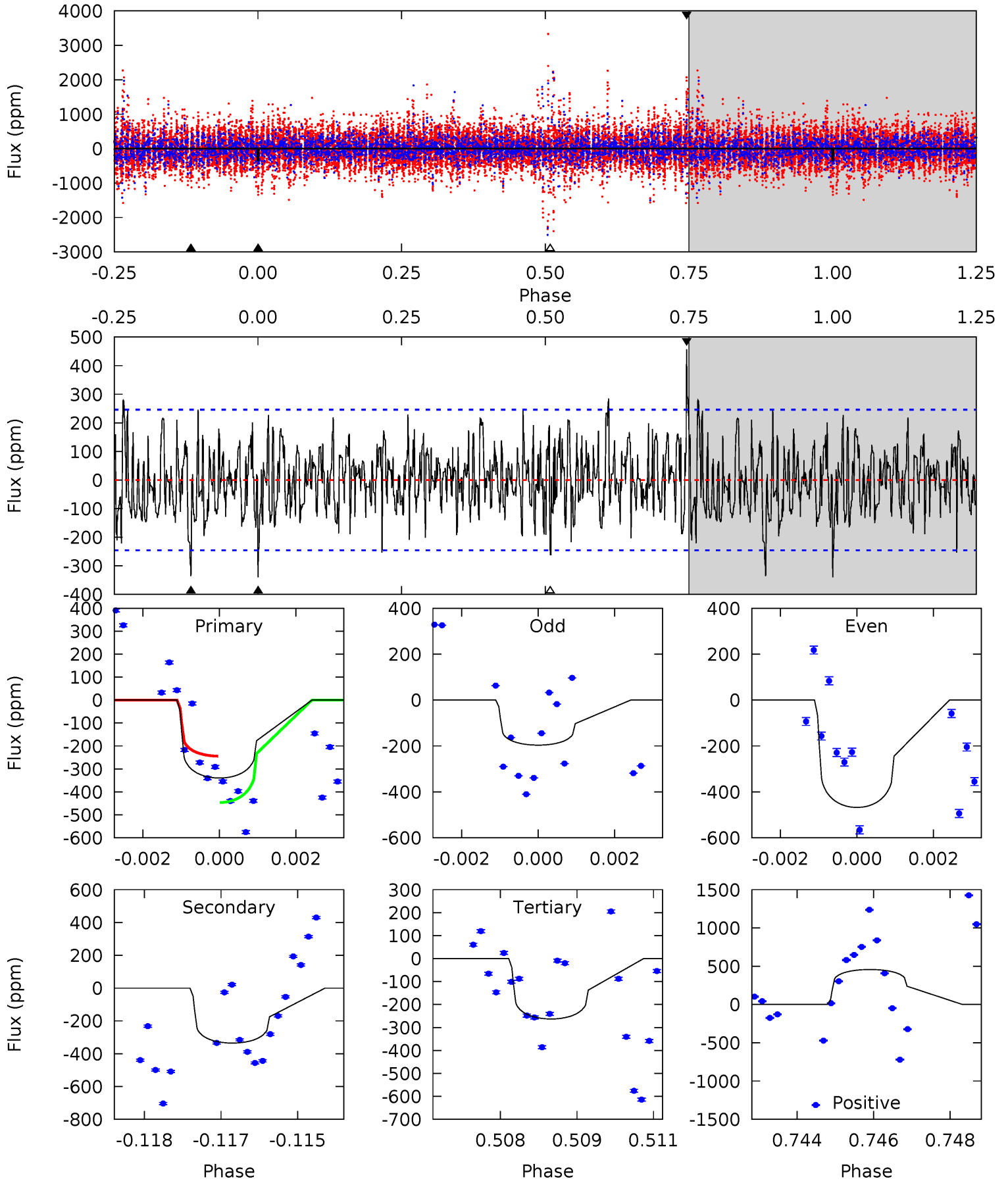
TCE 008264708-04 $P=245.672692$ Days $T_0=211.431810$ (BKJD)



DV Model-Shift Uniqueness Test

008264708-04, P = 245.578938 Days, E = 211.935545 Days

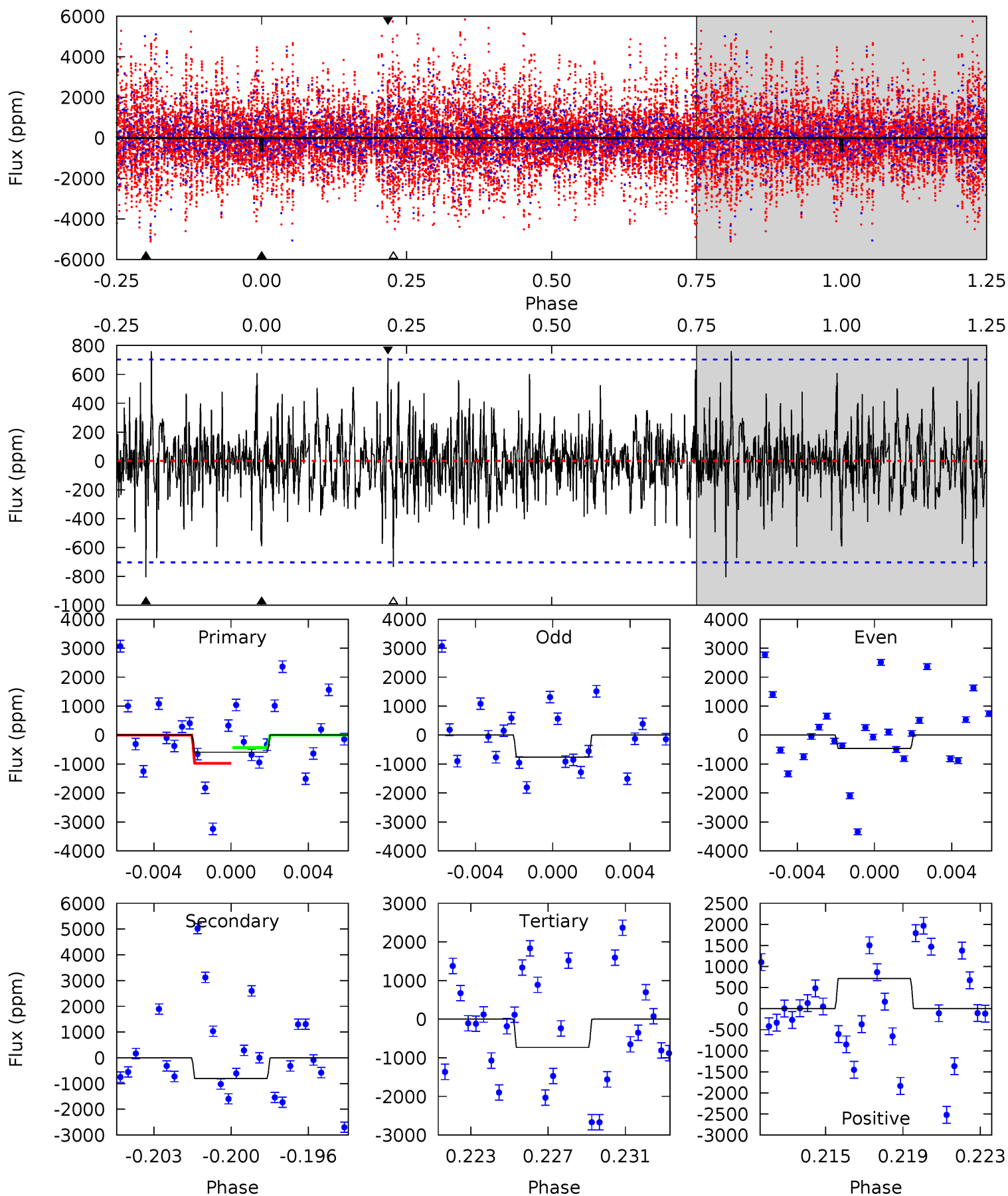
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.42	7.33	5.75	10.00	5.37	3.16	2.01	1.67	-2.57	1.58	-2.67	2.95	0.94	0.57	2.21



Alt Model-Shift Uniqueness Test

008264708-04, P = 245.672692 Days, E = 211.431810 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.38	5.95	5.43	5.29	5.20	2.89	1.35	-1.05	-0.91	0.53	0.67	1.10	0.93	0.49	1.88



Stellar Parameters For KIC 008264708

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7666^{+216}_{-339}	$4.226^{+0.054}_{-0.229}$	$0.360^{+0.050}_{-0.500}$	$1.702^{+0.573}_{-0.191}$	$1.779^{+0.189}_{-0.231}$	$0.508^{+0.147}_{-0.283}$
	+3%/-4%	+1%/-5%	+14%/-139%	+34%/-11%	+11%/-13%	+29%/-56%
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 008264708-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-335 ± 46	$3.89^{+2.60}_{-1.99}$	652^{+51}_{-39}	7190^{+5032}_{-1601}	10256^{+32196}_{-6602}
Alt.	-804 ± 135	$4.33^{+2.67}_{-2.35}$	652^{+52}_{-39}	8826^{+8394}_{-2104}	19249^{+77523}_{-11804}

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

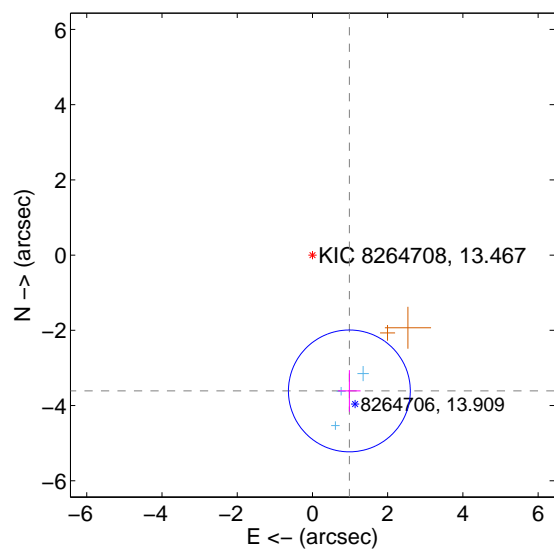
Supplemental centroid analysis for 008264708-04. Kepler magnitude: 13.47. Transit SNR 6.15

There are 3 quarters with good PRF difference image offsets

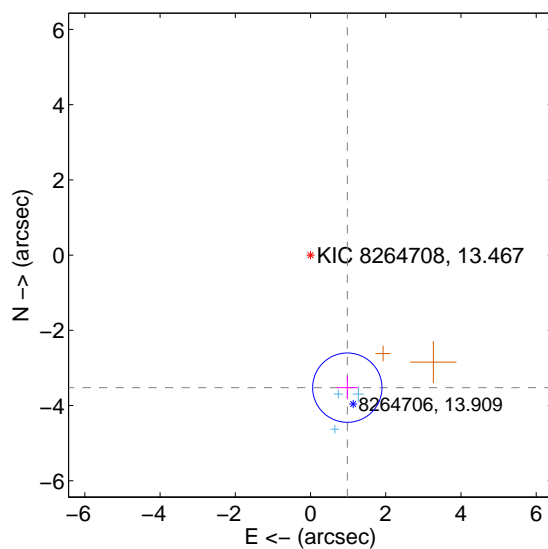
The direct PRF centroid is offset from the target star catalog position by about 0.55 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.742 ± 0.540	6.93	-0.982 ± 0.300	-3.611 ± 0.554
PRF-fit source offset from KIC position	3.658 ± 0.307	11.90	-0.978 ± 0.279	-3.525 ± 0.309
photometric centroid source offset	1.79 ± 0.99	1.81	1.57 ± 0.91	-0.86 ± 1.22

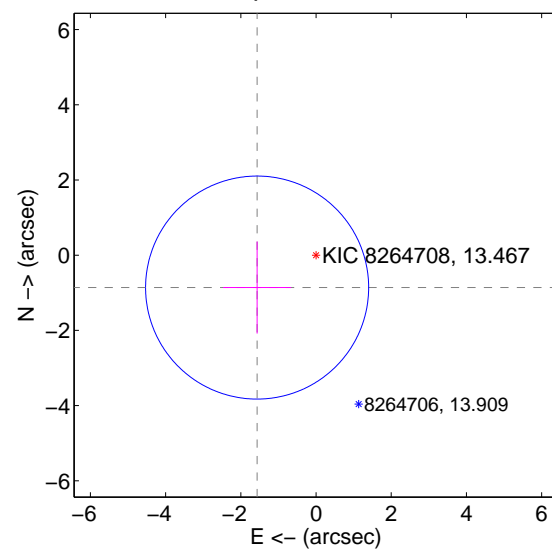
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

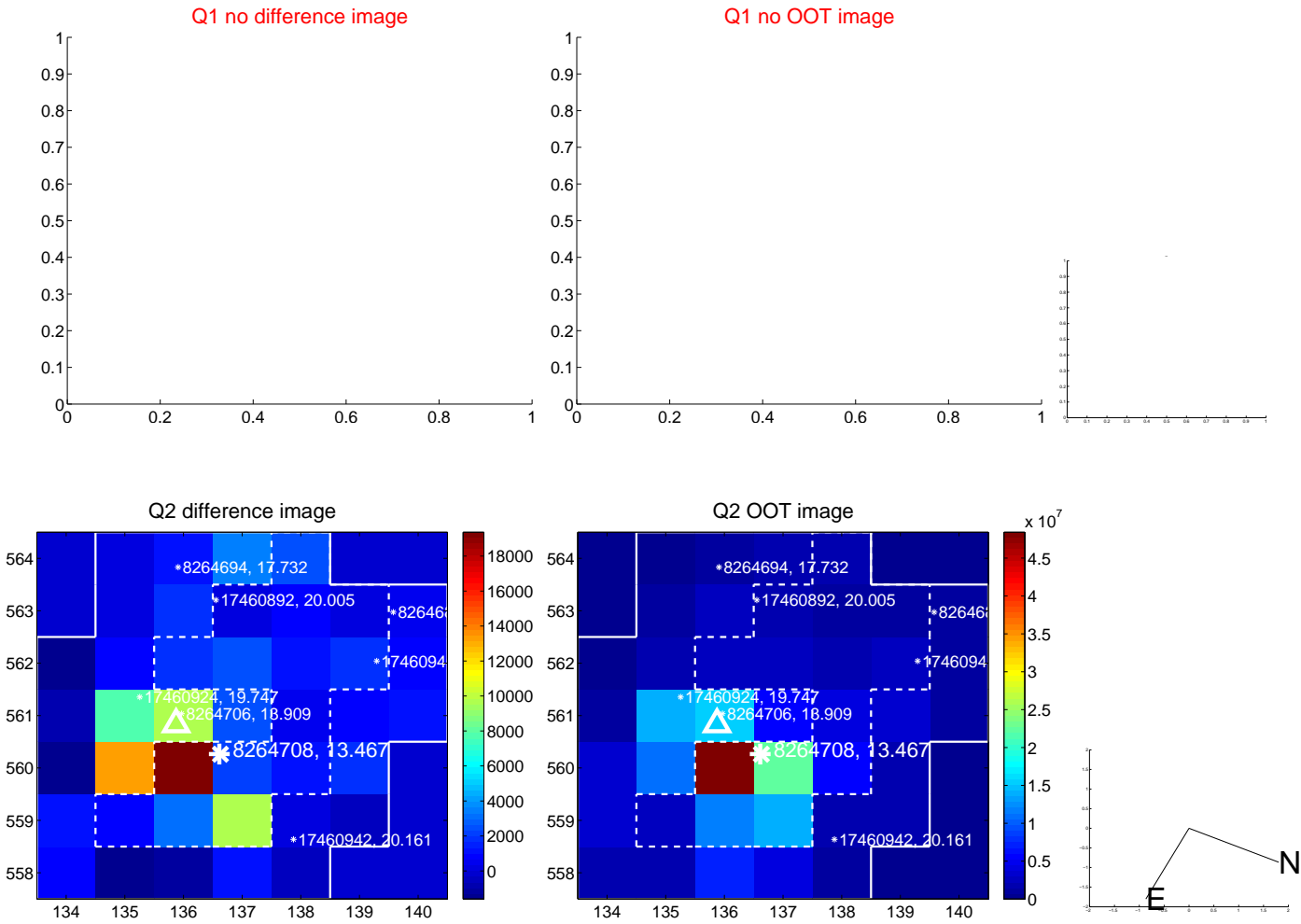


offset from photometric centroids

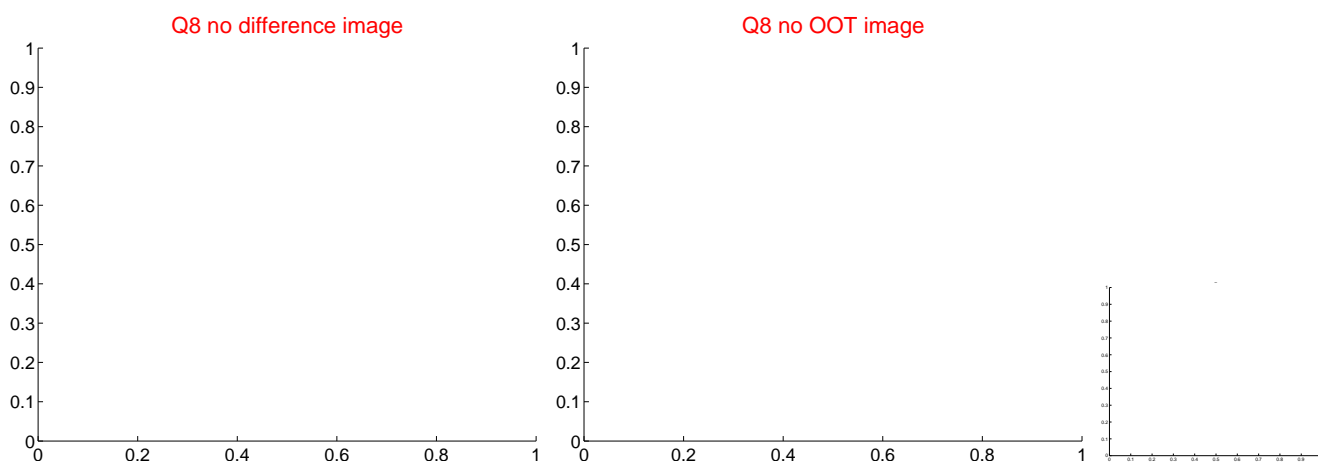
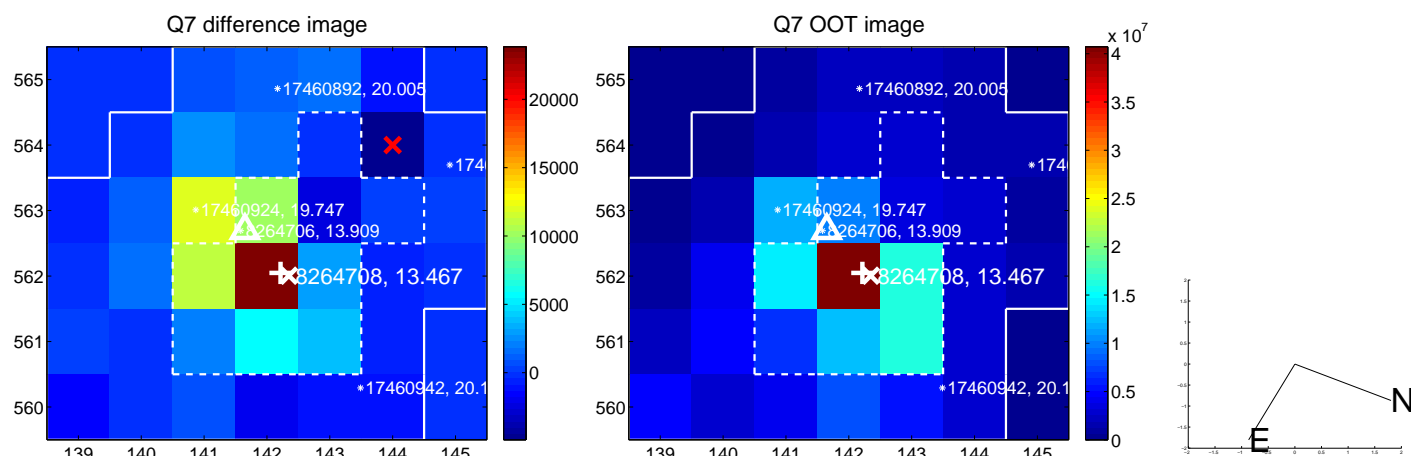
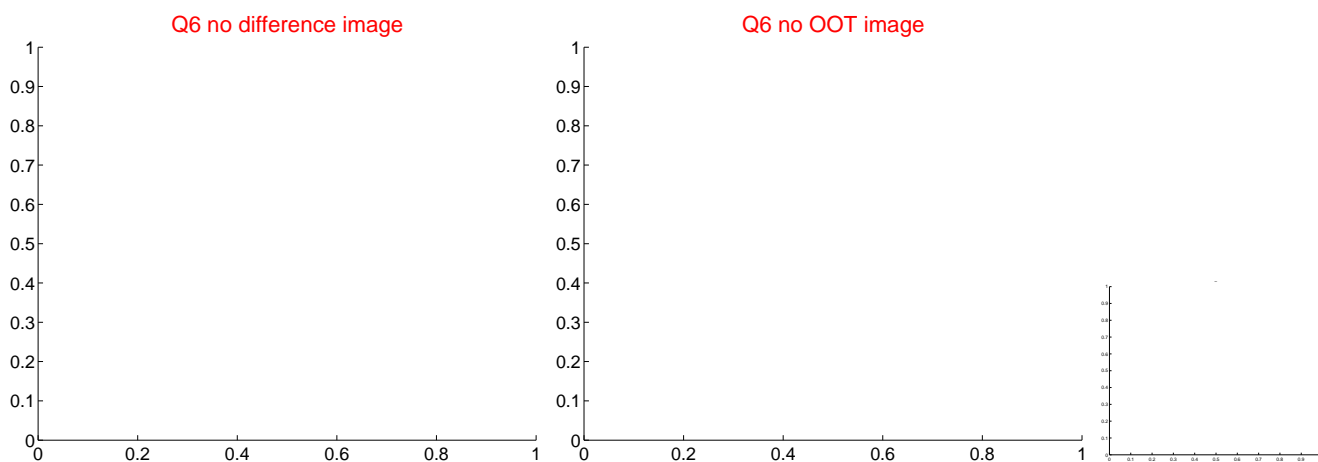
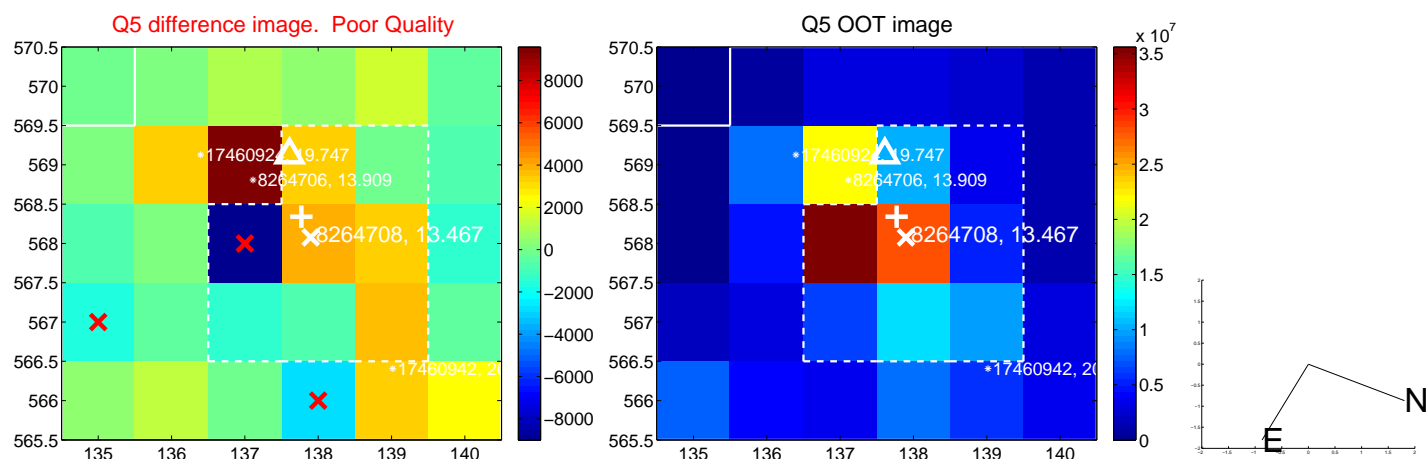


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

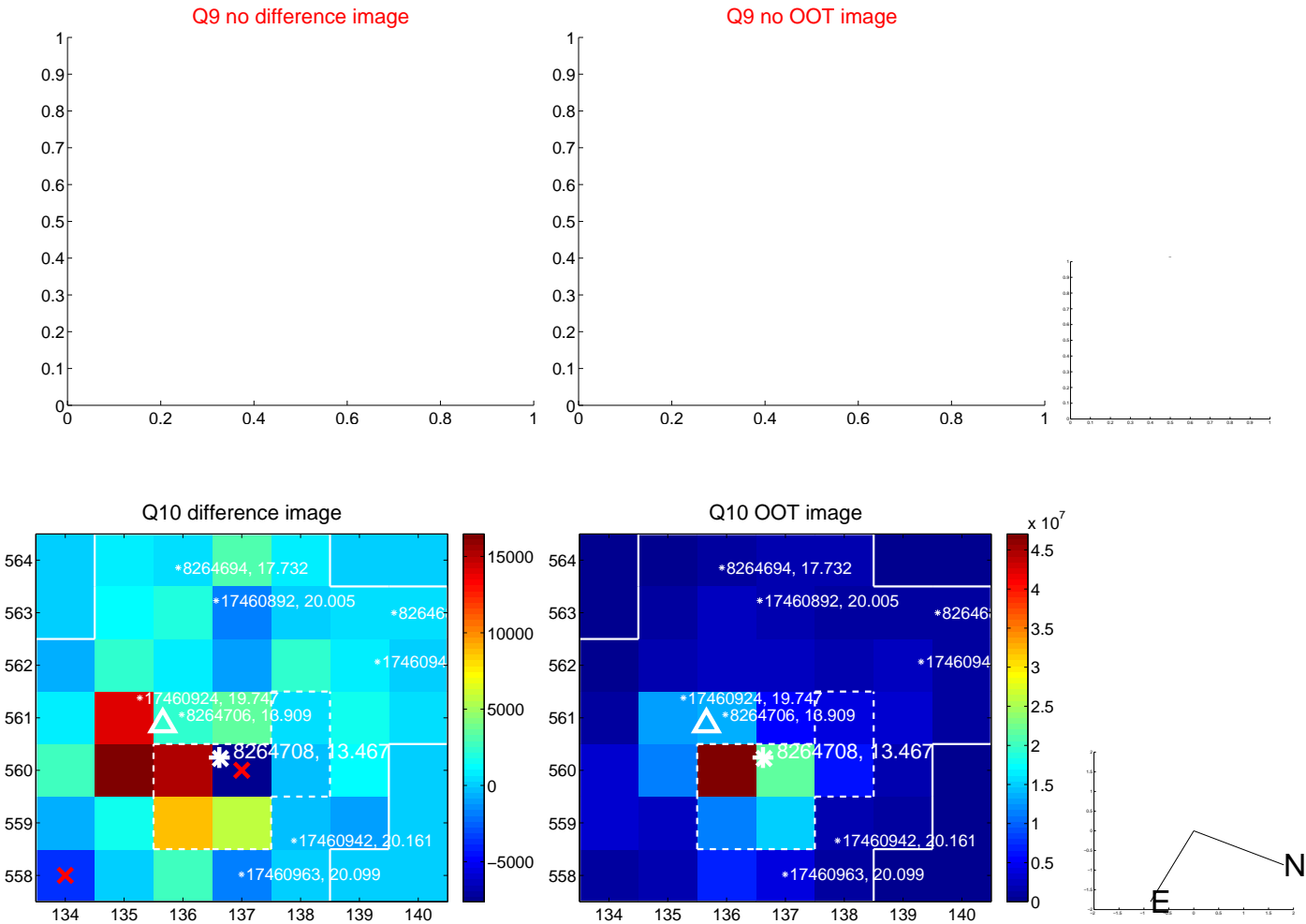
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



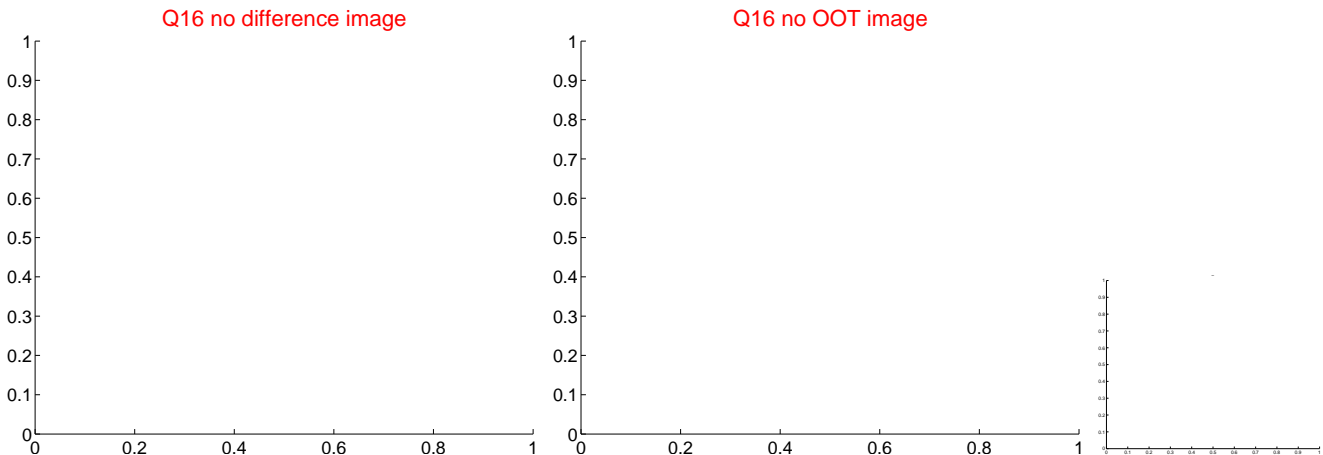
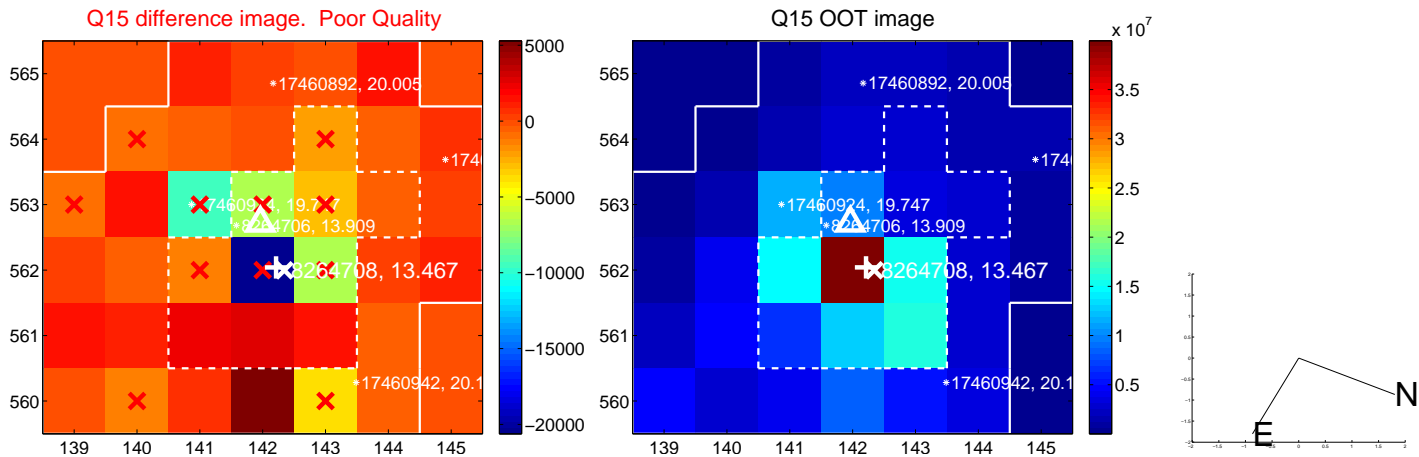
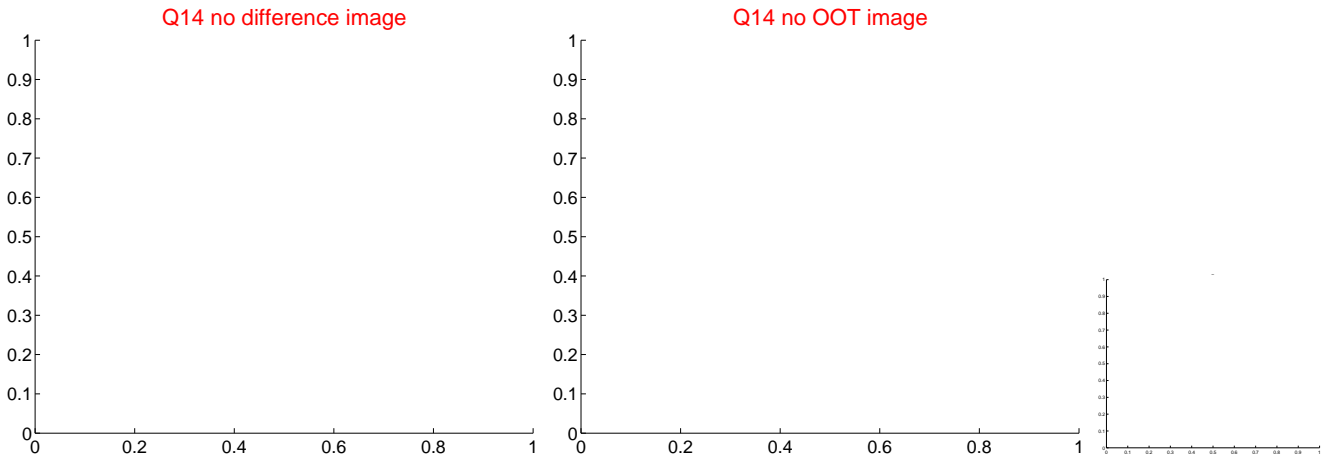
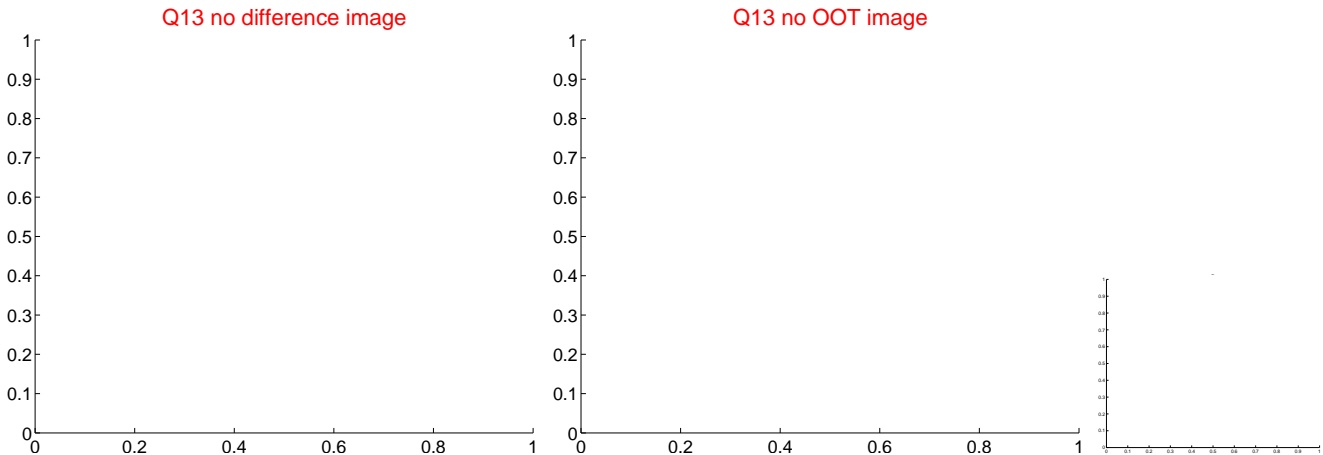
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



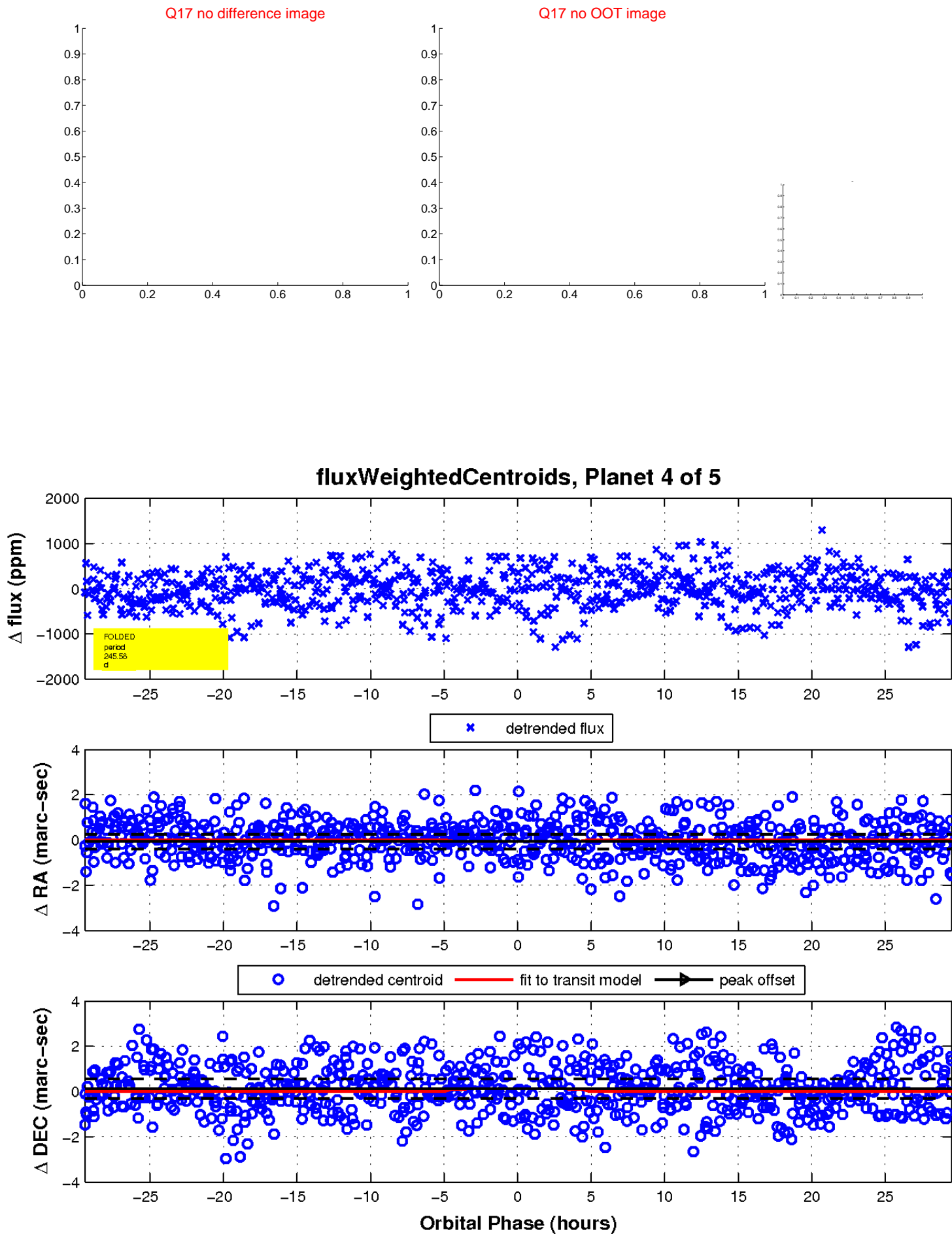
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



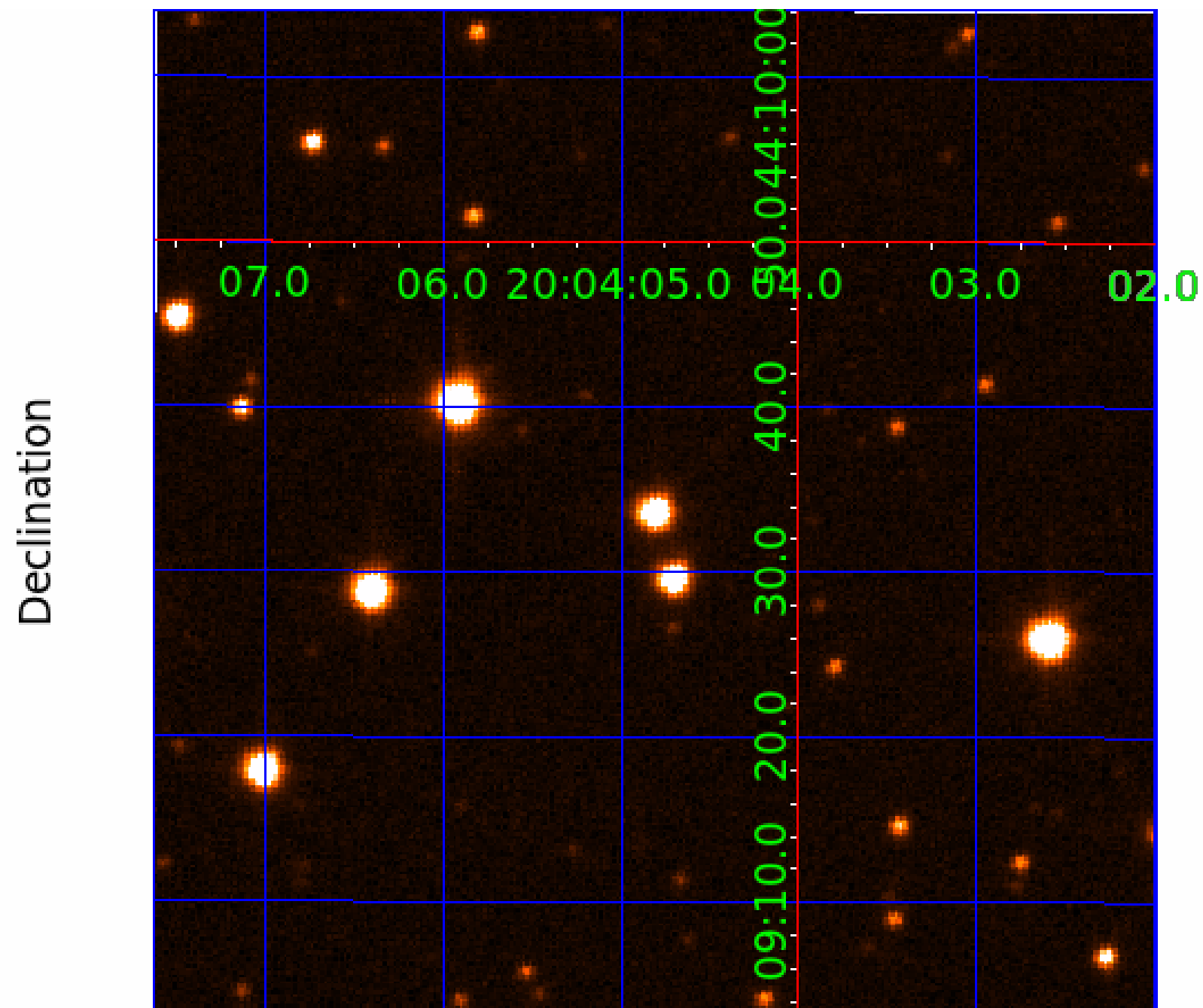
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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



UKIRT Image



KIC 008264708

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})
008264708-01	OBS	No	2.314758	132.306826	41.8	9.948	8.8	8.2	1.70	7666	1.29	5205.57
008264708-02	OBS	No	199.851119	257.218504	520.3	4.092	15.3	5.9	1.70	7666	4.36	13.64
008264708-03	OBS	No	0.769926	132.167085	49.7	2.286	8.6	7.4	1.70	7666	1.39	22587.97
008264708-04	OBS	No	245.578938	211.935546	351.8	9.850	9.8	6.2	1.70	7666	3.47	10.37
008264708-05	OBS	No	183.807534	132.904901	661.5	4.794	7.3	6.5	1.70	7666	4.88	15.25

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264708-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—CENT_UNRESOLVED_OFFSET
008264708-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
008264708-03	OBS	FP	0.00	1	0	1	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET
008264708-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008264708-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_KIC_POS

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

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

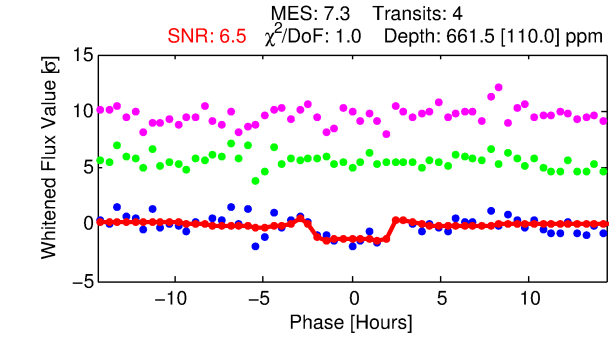
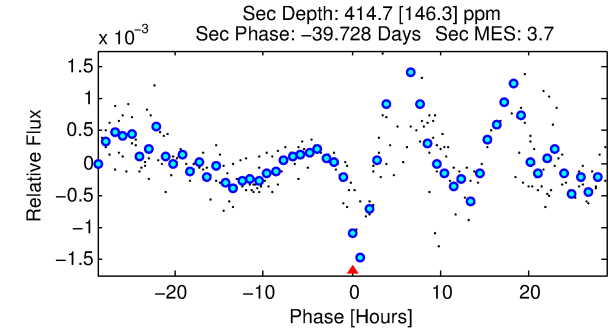
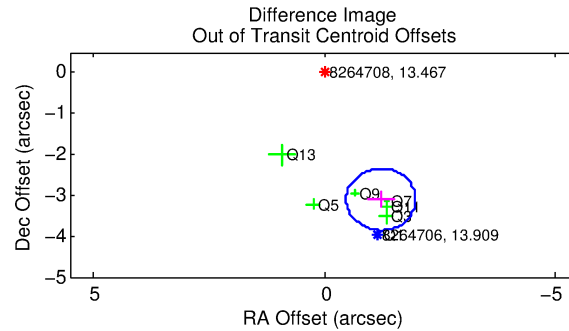
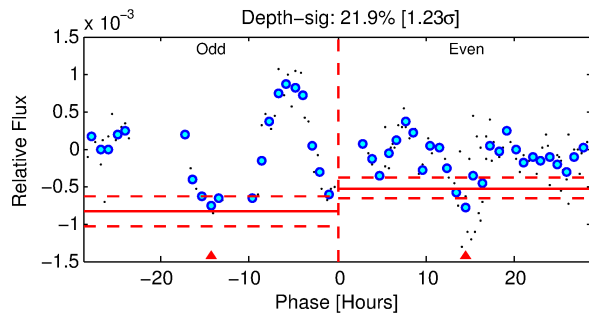
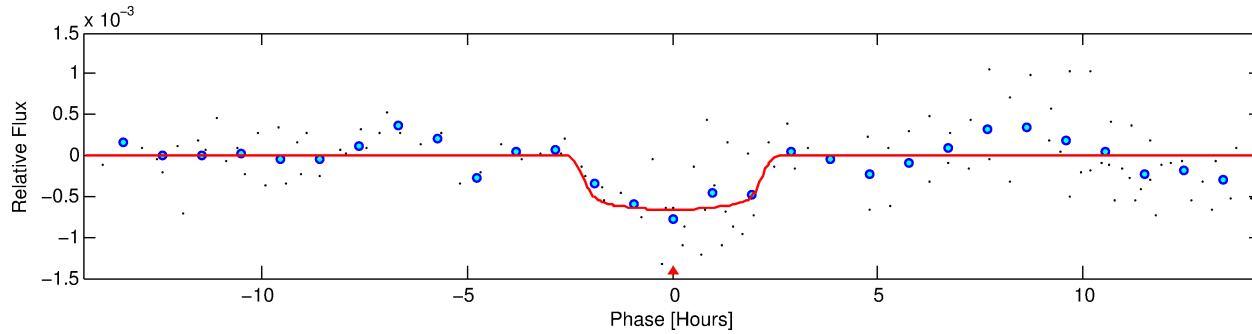
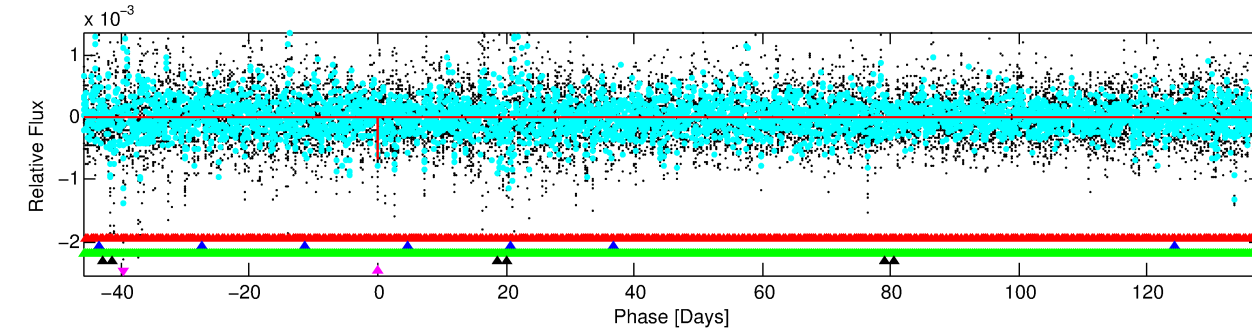
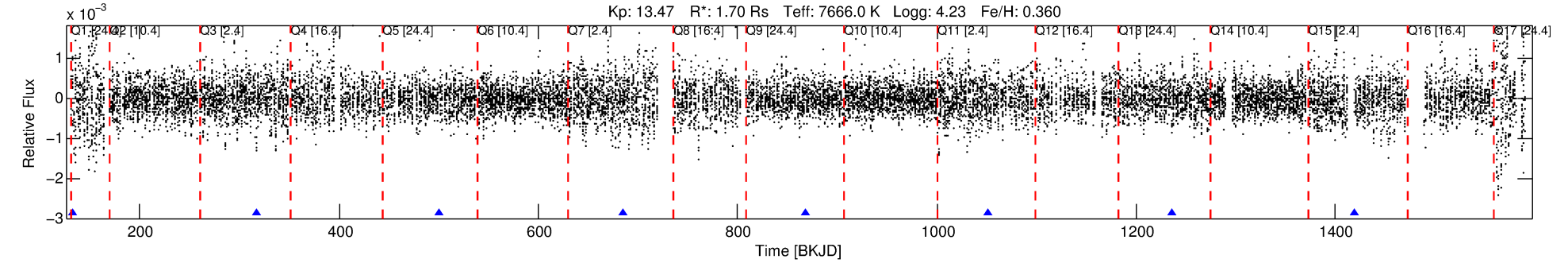
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264708-05

No Significant Match Found

DV One-Page Summary

KIC: 8264708 Candidate: 5 of 5 Period: 183.808 d



DV Fit Results:

Period = 183.80753 [0.00293] d
Epoch = 132.9049 [0.0122] BKJD
Rp/R* = 0.0262 [0.0072]
a/R* = 177.88 [276.77]
b = 0.83 [0.60]
Seff = 15.25 [6.91]
Teq = 504 [57] K
Rp = 4.88 [2.11] Re
a = 0.7666 [0.2185] AU
Ag = 5641.35 [4358.16] [1.29 σ]
Teffp = 6752 [1138] K [5.49 σ]

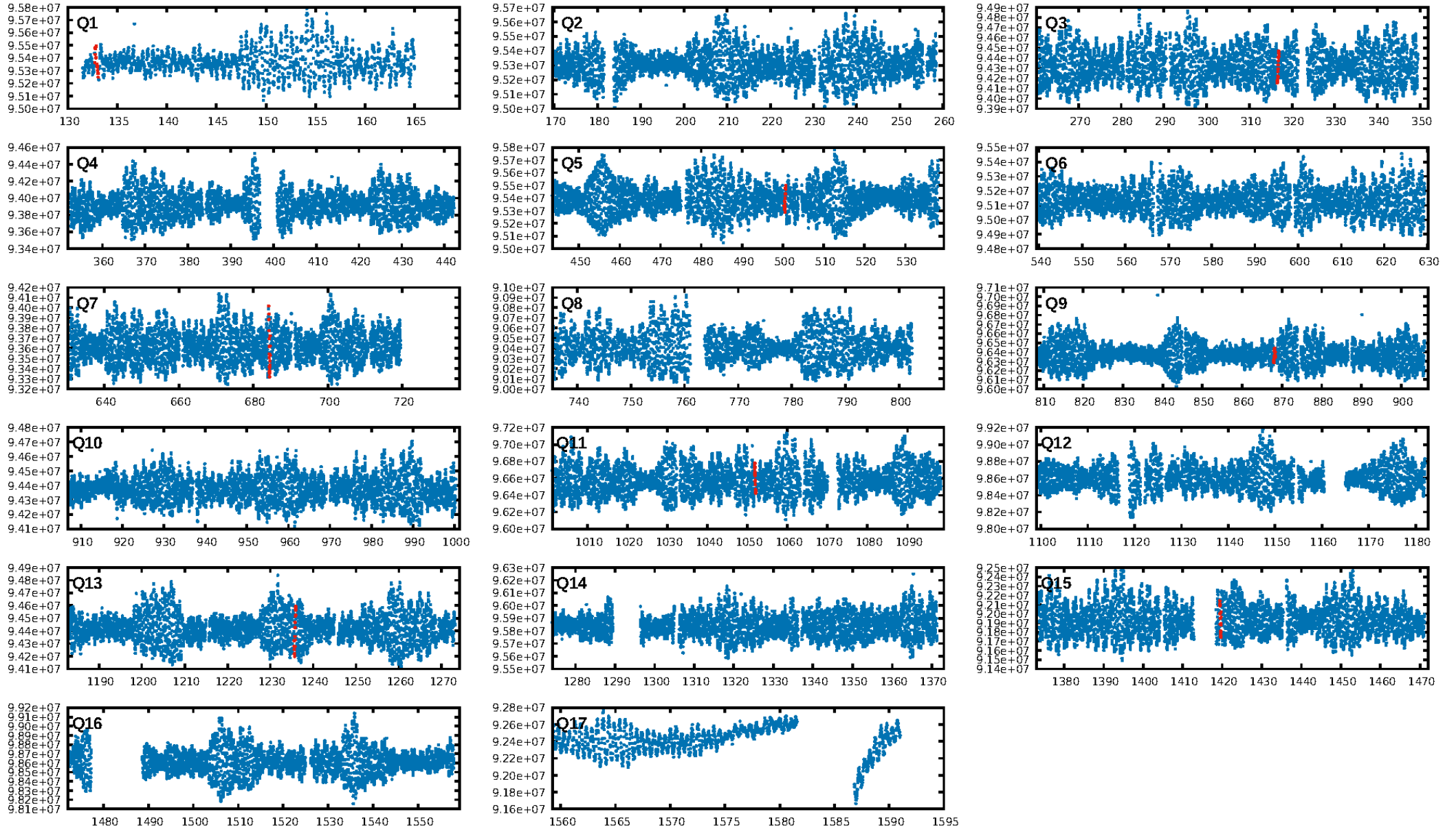
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [394.44 σ]
LongPeriod-sig: 100.0% [61.09 σ]
ModelChiSquare2-sig: 7.6%
ModelChiSquareGof-sig: 98.6%
Bootstrap-pfa: 1.48e-08
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 2.454
Centroid-sig: 0.0%
Centroid-so: 2.595 arcsec [3.26 σ]
OotOffset-rm: 3.336 arcsec [13.29 σ]
KicOffset-rm: 3.989 arcsec [15.49 σ]
OotOffset-st: 0/3/0/4 [7]
KicOffset-st: 0/3/0/4 [7]
DiffImageQuality-fgm: 0.57 [4/7]
DiffImageOverlap-fno: 0.00 [0/7]

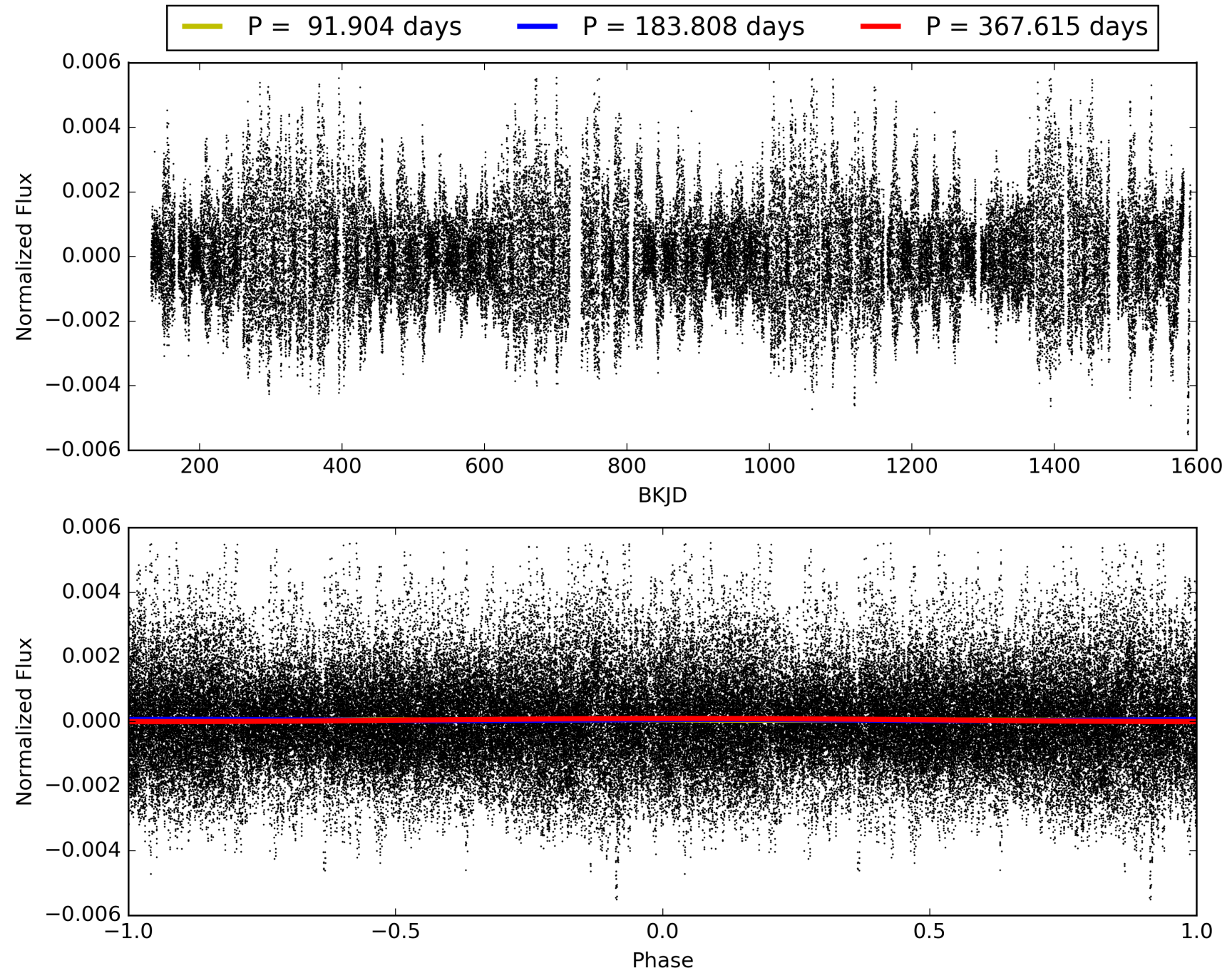
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008264708-05, PDC Light Curves

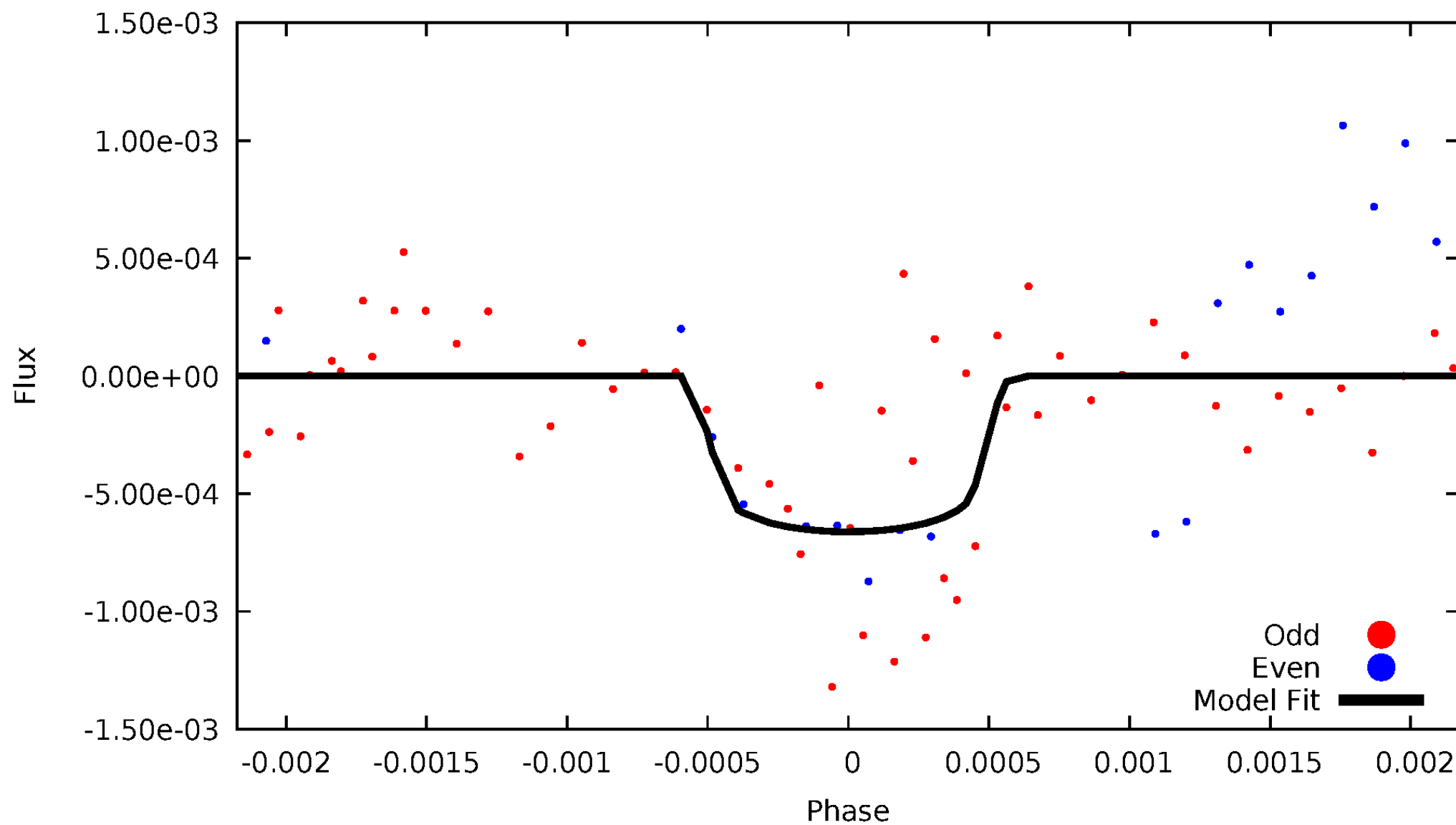


TCE 008264708-05



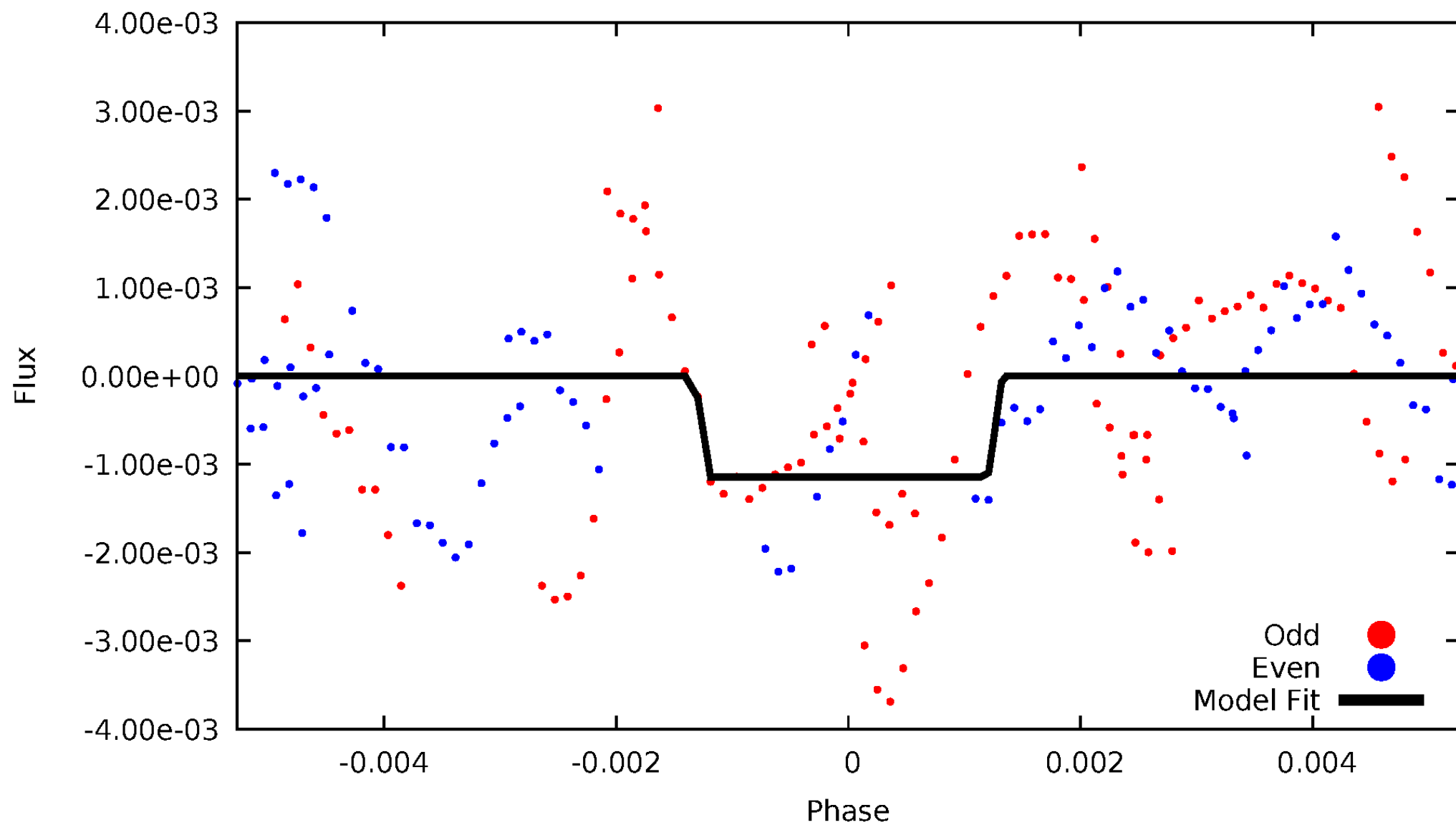
DV Odd/Even

TCE 008264708-05



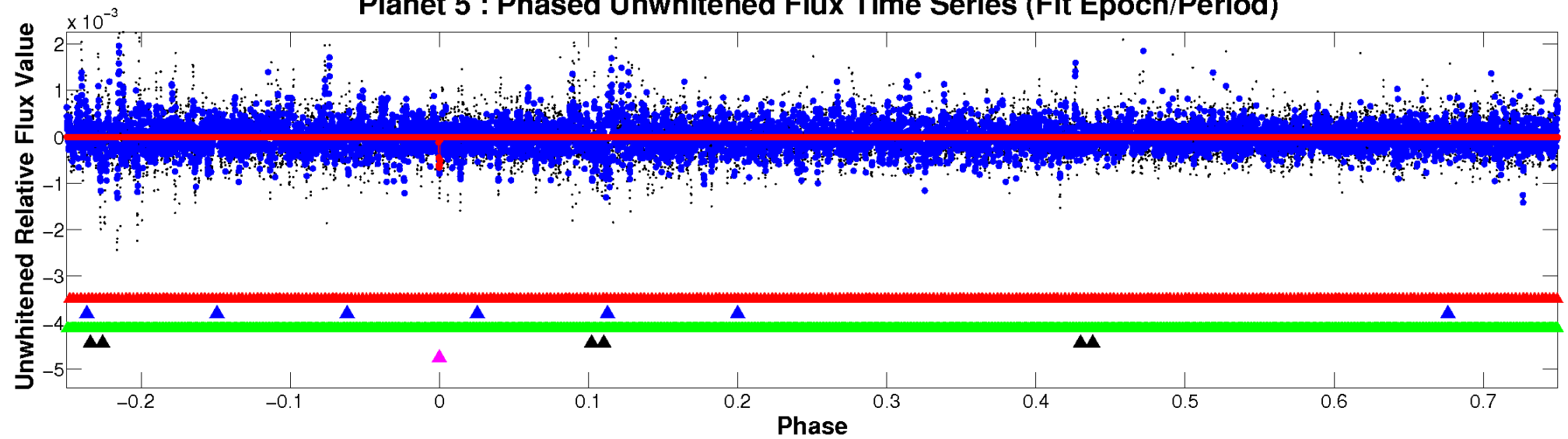
ALT Odd/Even

TCE 008264708-05

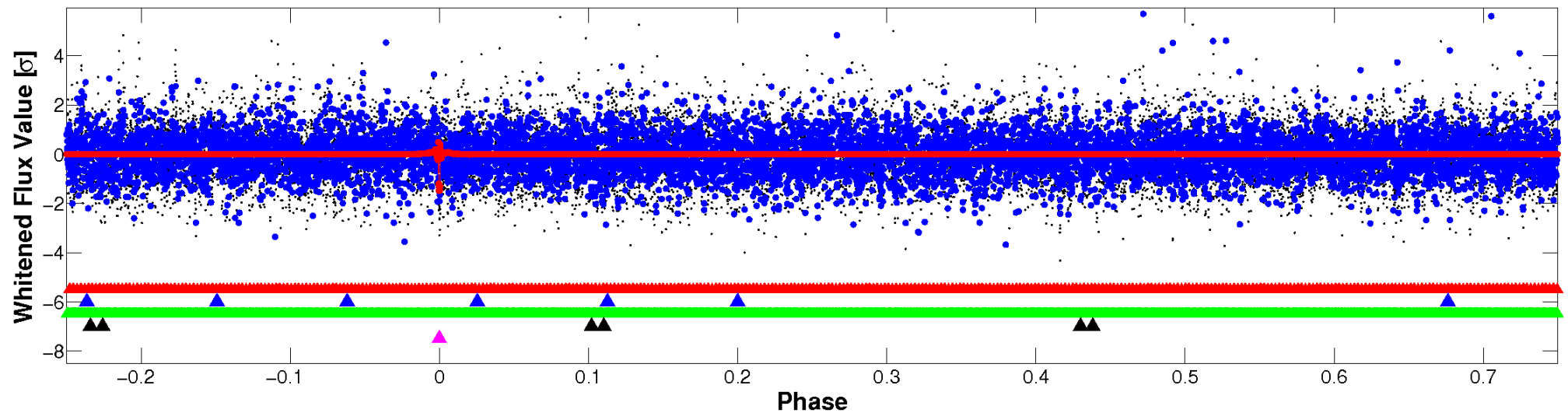


Non-Whitened Vs. Whitened Light Curve

Planet 5 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

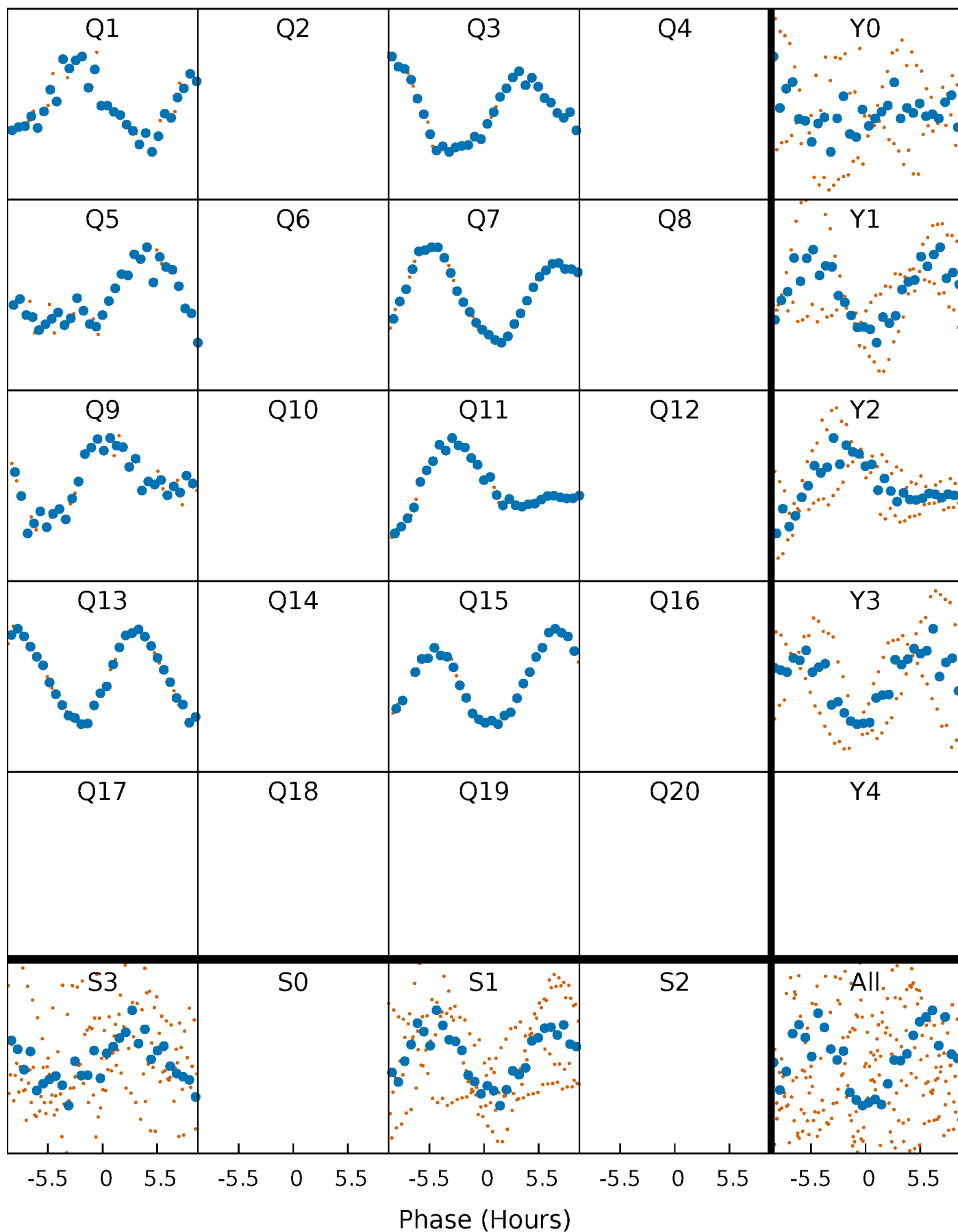


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



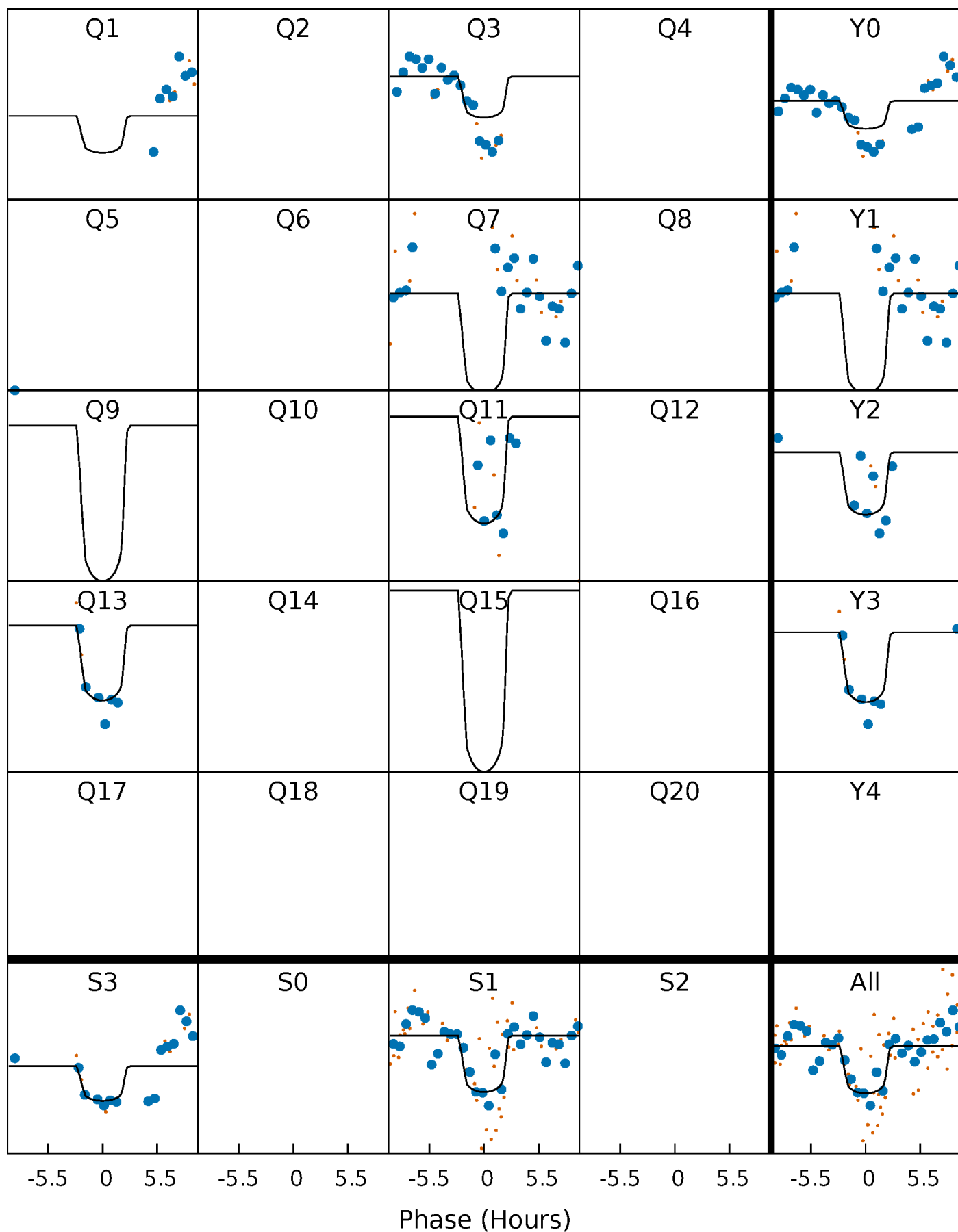
PDC Quarter-Phased Transit Curves

TCE 008264708-05 $P=183.807534$ Days $T_0=132.904901$ (BKJD)



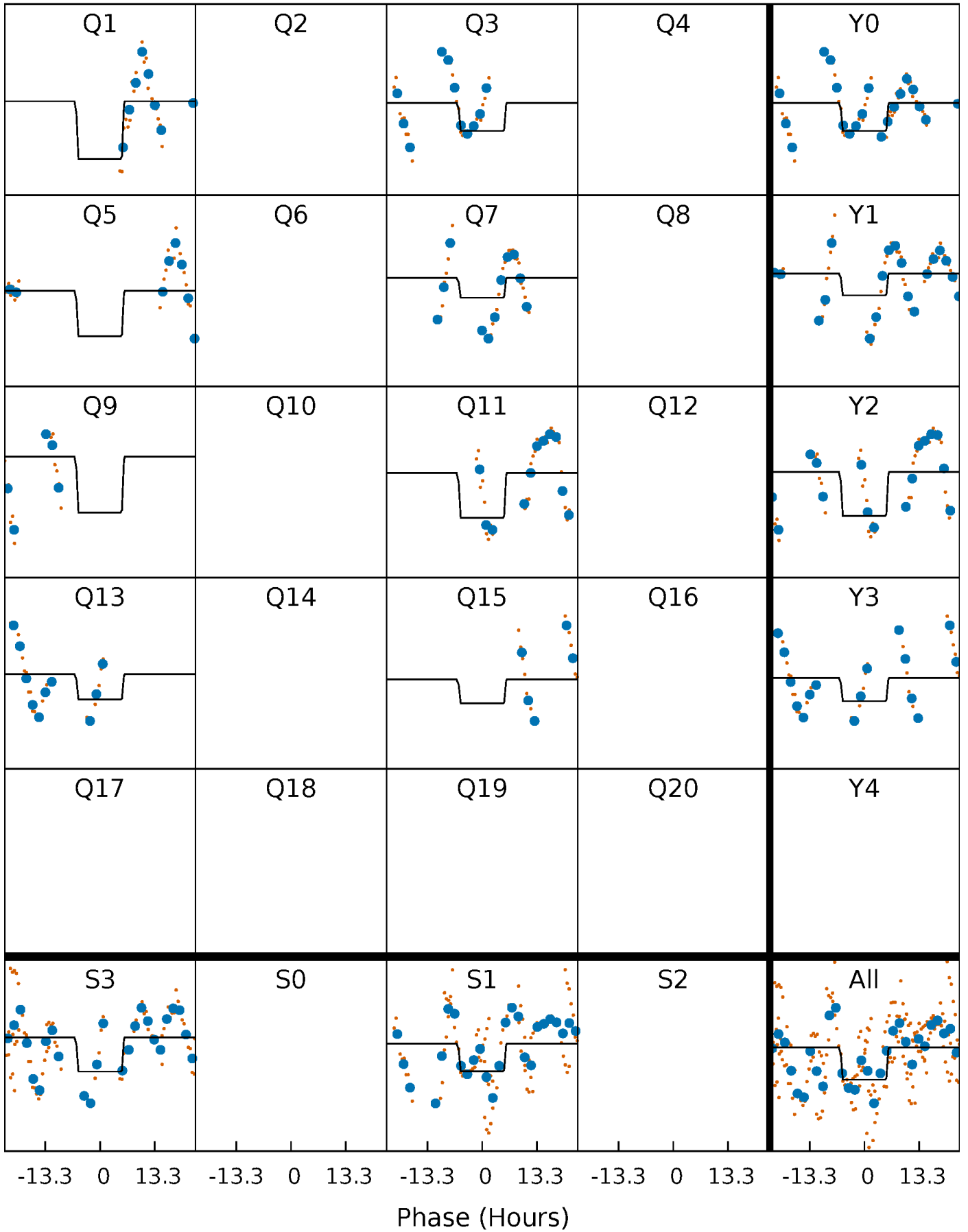
DV Quarter-Phased Transit Curves

TCE 008264708-05 $P=183.807534$ Days $T_0=132.904901$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

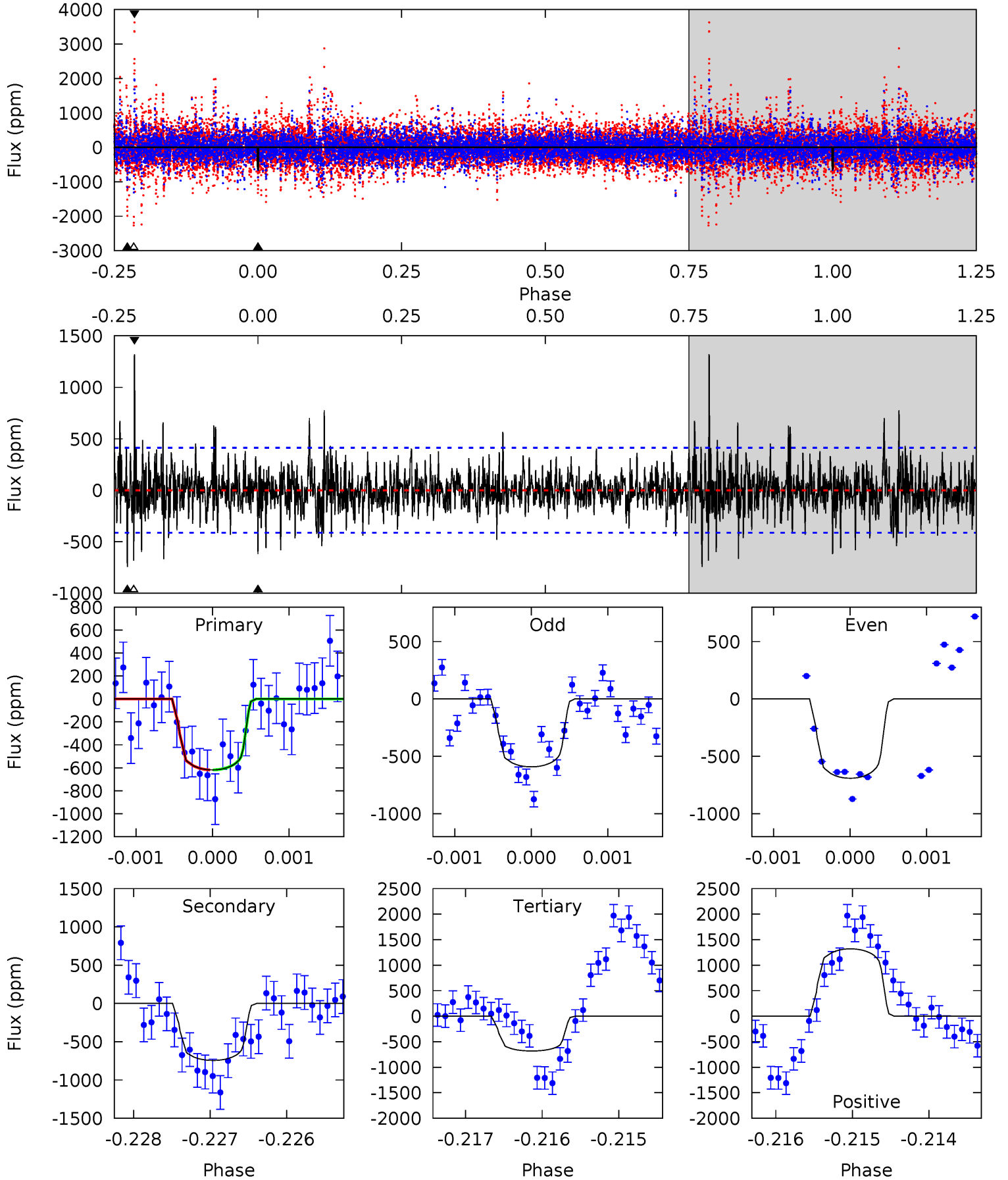
TCE 008264708-05 $P=183.811357$ Days $T_0=132.904019$ (BKJD)



DV Model-Shift Uniqueness Test

008264708-05, P = 183.807534 Days, E = 132.904901 Days

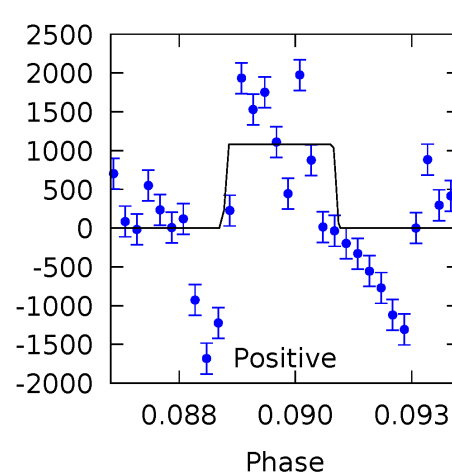
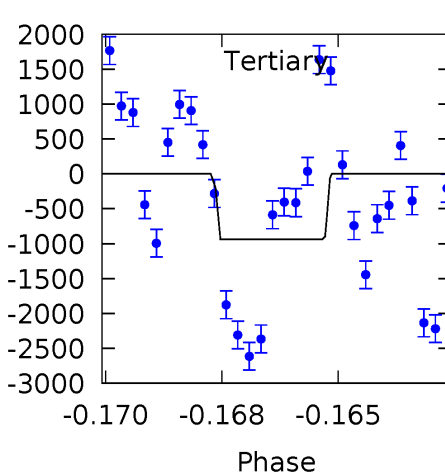
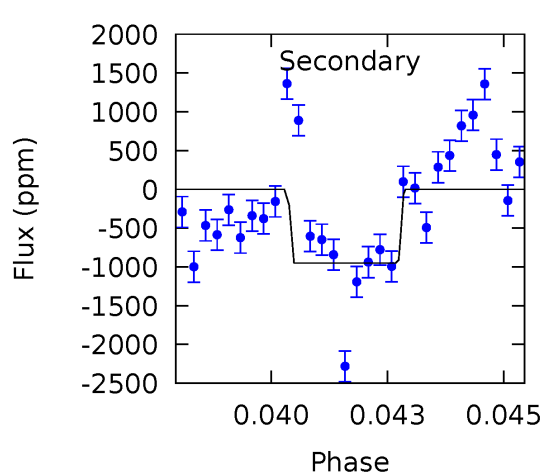
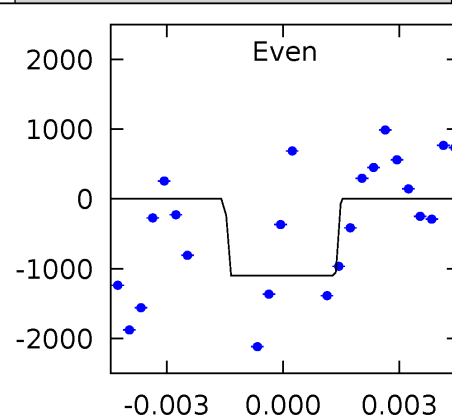
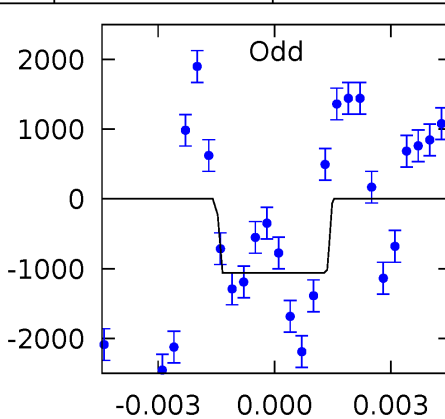
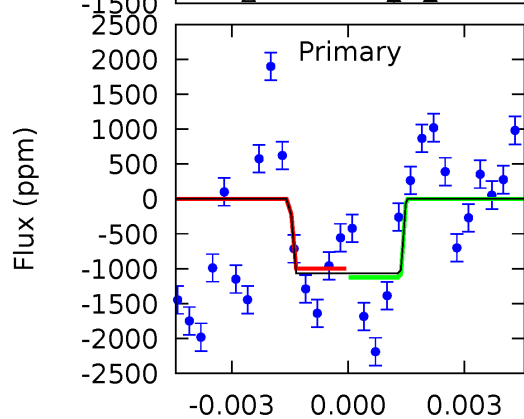
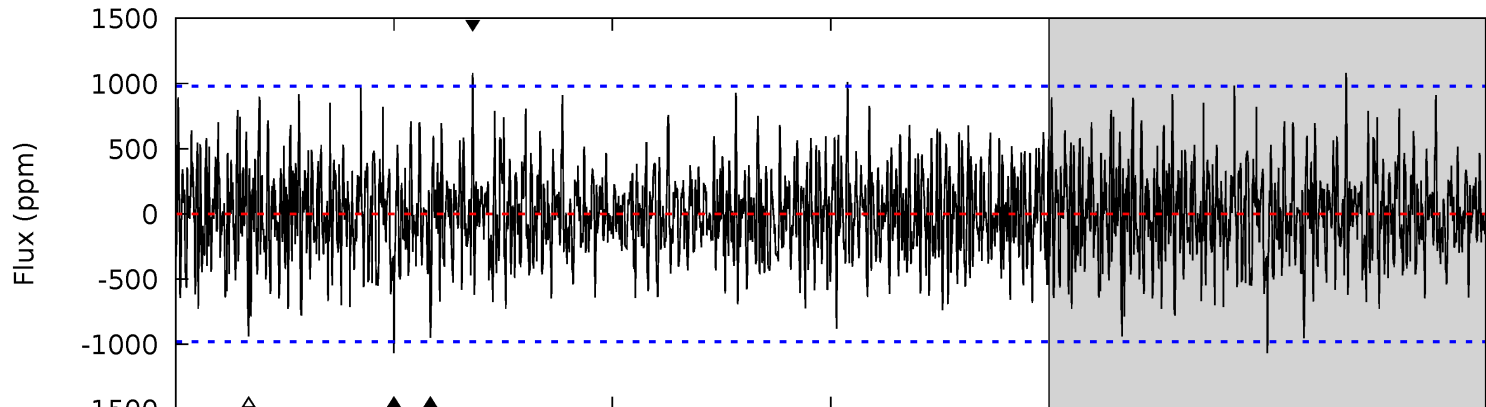
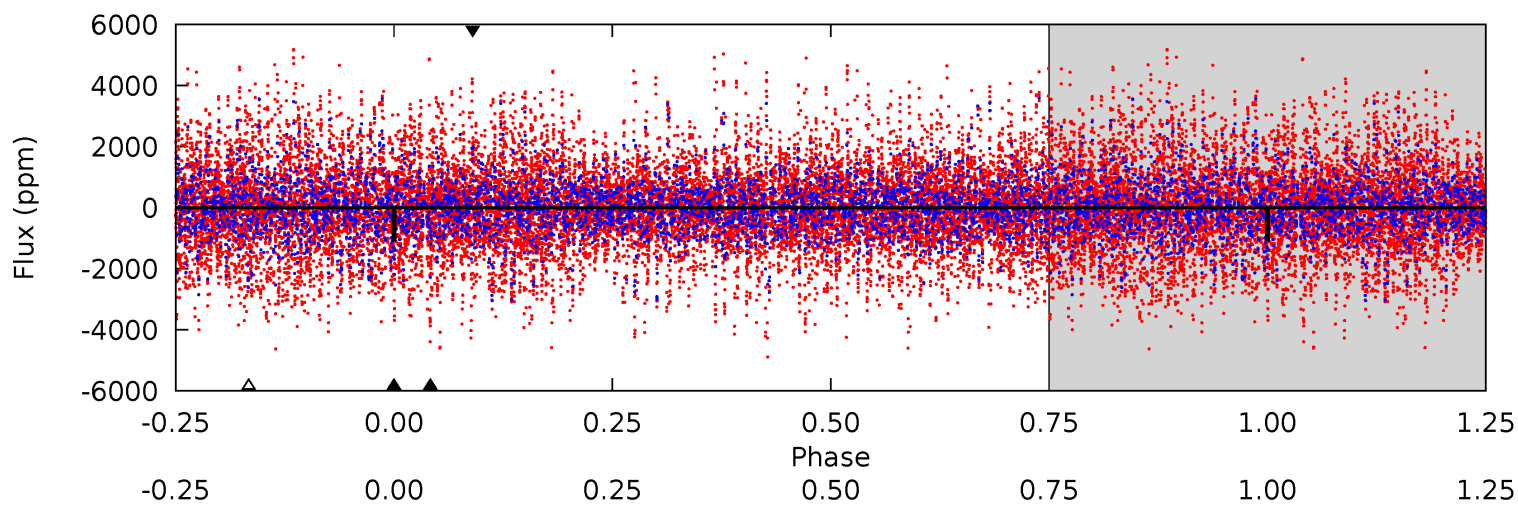
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.14	9.80	8.98	17.4	5.43	3.26	2.14	-0.84	-9.24	0.82	-7.58	0.55	0.80	0.64	0.01



Alt Model-Shift Uniqueness Test

008264708-05, P = 183.811357 Days, E = 132.904019 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.74	5.12	5.06	5.81	5.27	3.00	1.58	0.69	-0.07	0.06	-0.70	0.10	1.13	0.50	0.35



Stellar Parameters For KIC 008264708

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7666^{+216}_{-339}	$4.226^{+0.054}_{-0.229}$	$0.360^{+0.050}_{-0.500}$	$1.702^{+0.573}_{-0.191}$	$1.779^{+0.189}_{-0.231}$	$0.508^{+0.147}_{-0.283}$
	+3%/-4%	+1%/-5%	+14%/-139%	+34%/-11%	+11%/-13%	+29%/-56%
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 008264708-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-744 ± 76	$5.15^{+1.60}_{-1.50}$	718^{+56}_{-41}	7776^{+1750}_{-1054}	8838^{+8389}_{-3775}
Alt.	-951 ± 186	$6.61^{+1.71}_{-1.61}$	718^{+55}_{-43}	7214^{+1344}_{-867}	6847^{+5637}_{-2762}

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

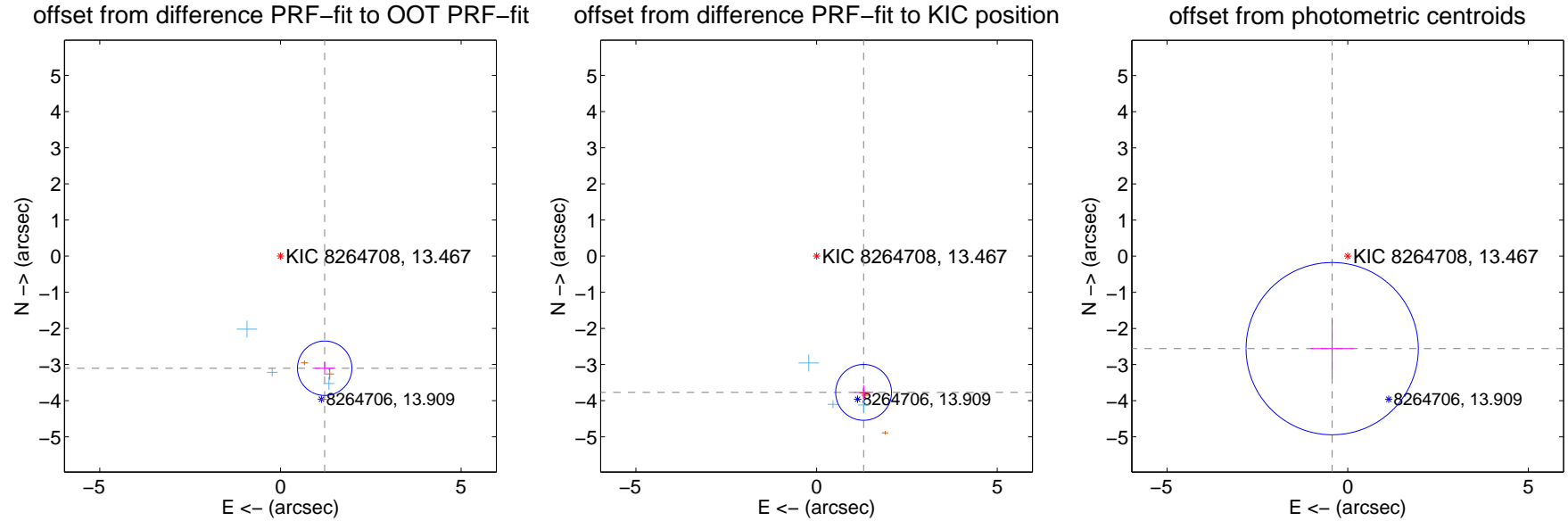
DV Centroid Data

Supplemental centroid analysis for 008264708-05. Kepler magnitude: 13.47. Transit SNR 6.53

There are 4 quarters with good PRF difference image offsets

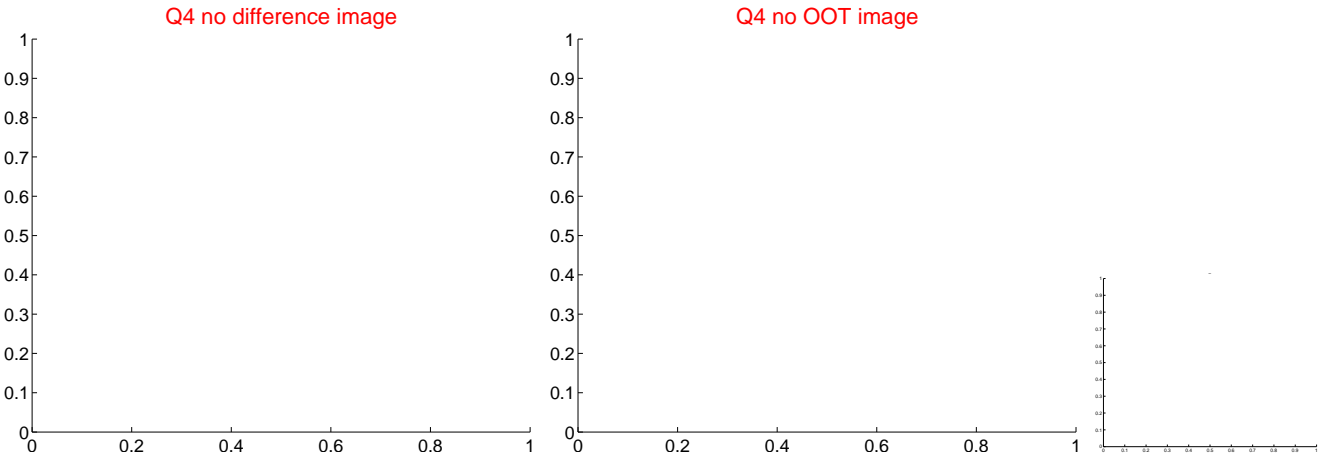
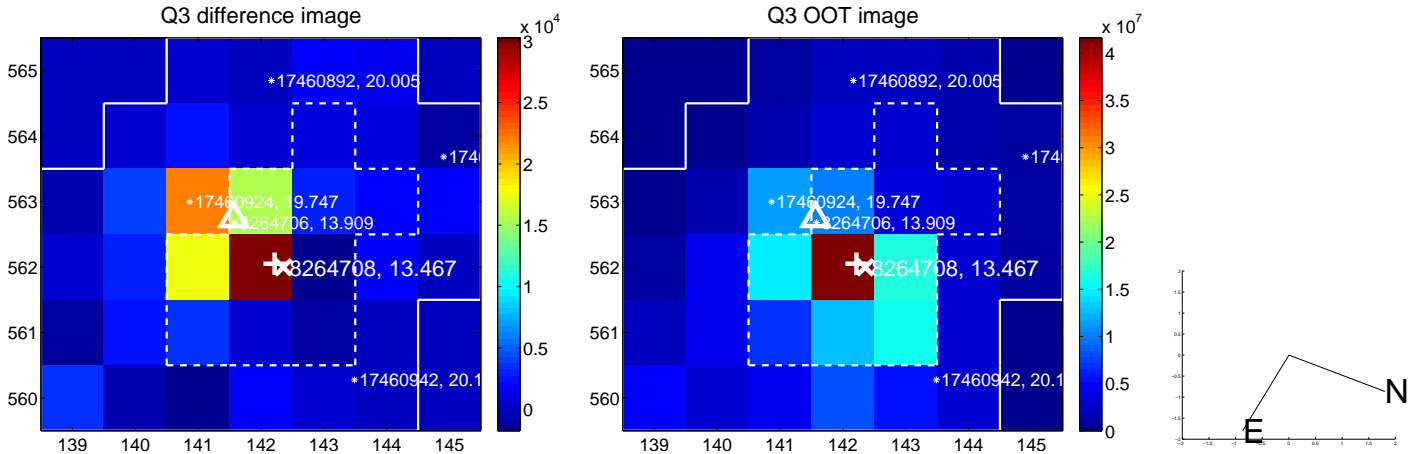
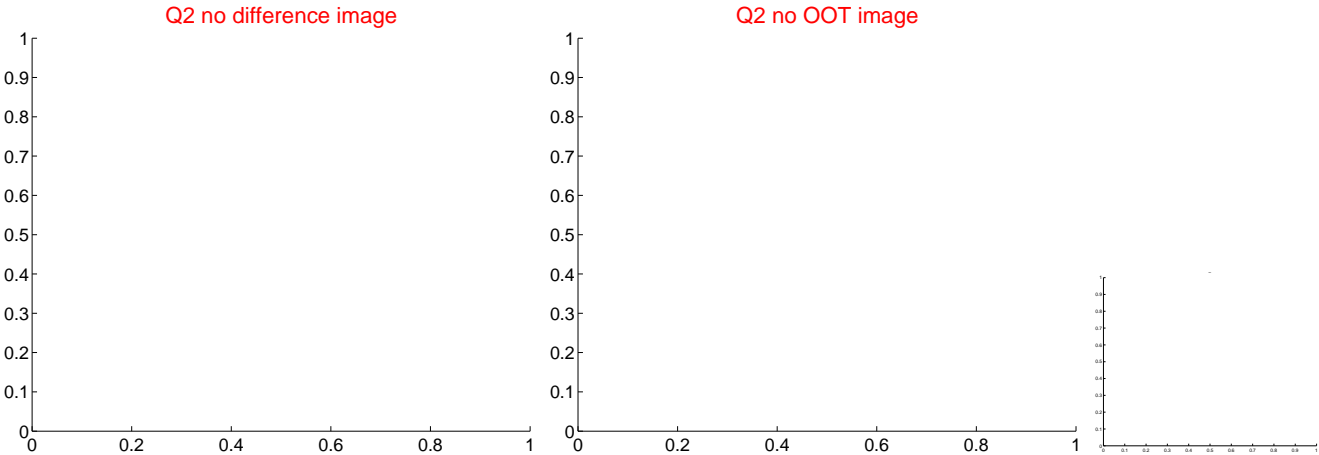
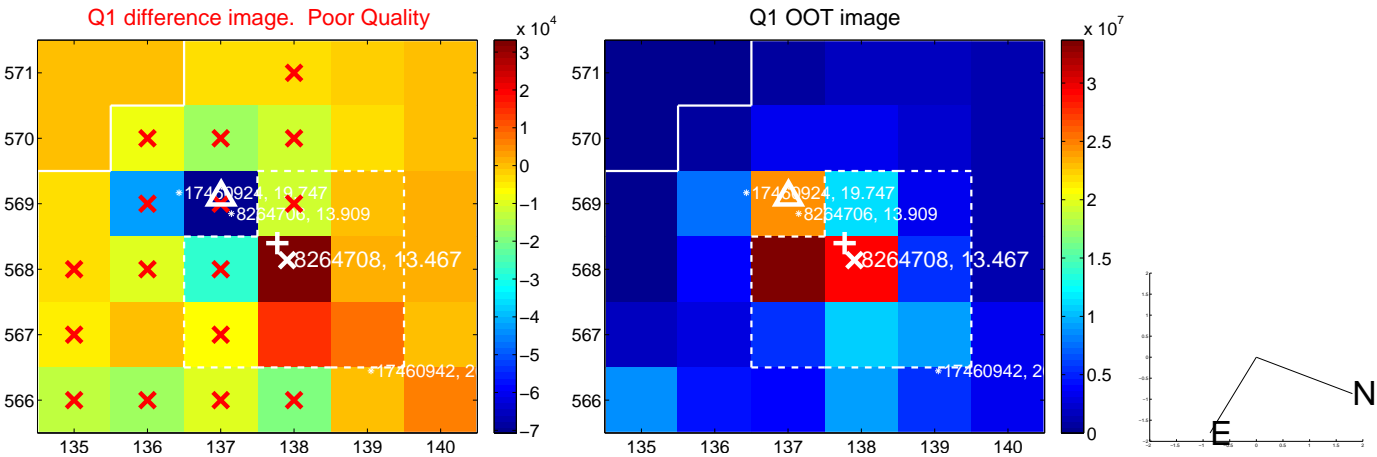
The direct PRF centroid is offset from the target star catalog position by about 1.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.336 ± 0.251	13.29	-1.224 ± 0.285	-3.103 ± 0.178
PRF-fit source offset from KIC position	3.989 ± 0.258	15.49	-1.301 ± 0.265	-3.771 ± 0.202
photometric centroid source offset	2.59 ± 0.79	3.26	0.43 ± 0.60	-2.56 ± 0.80

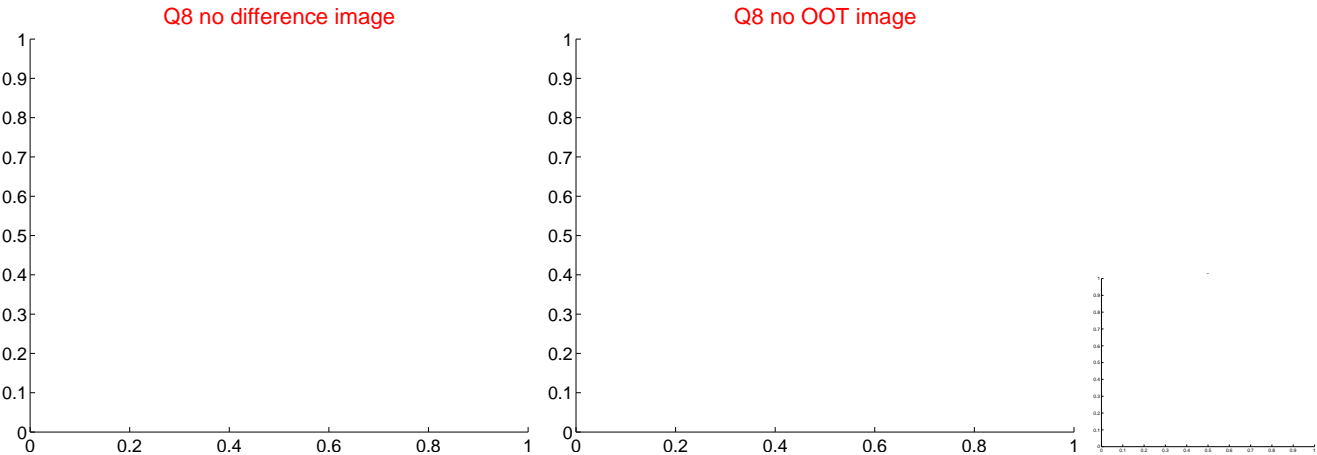
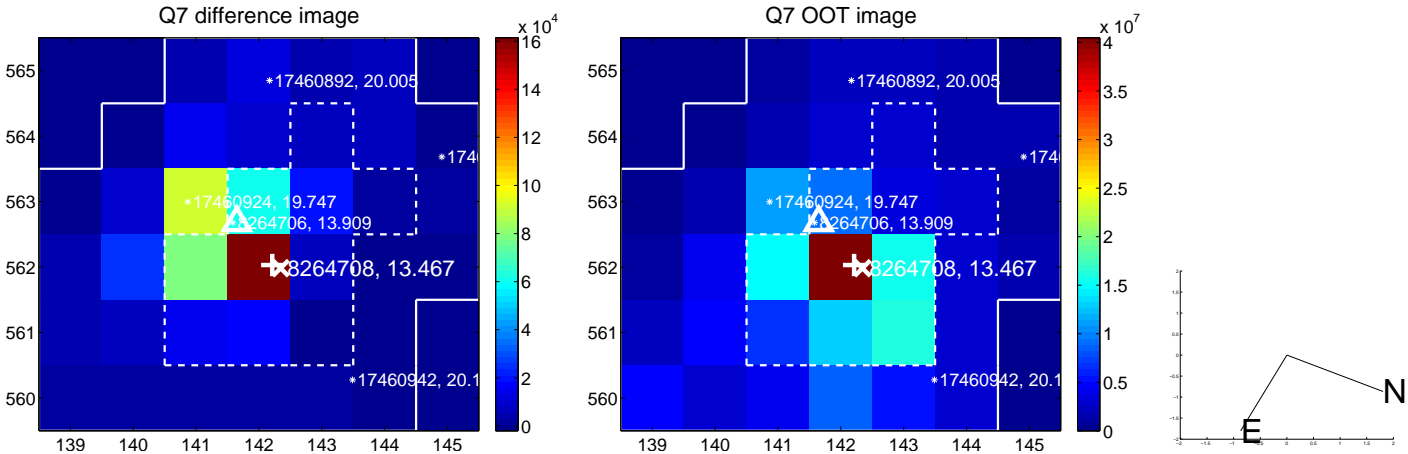
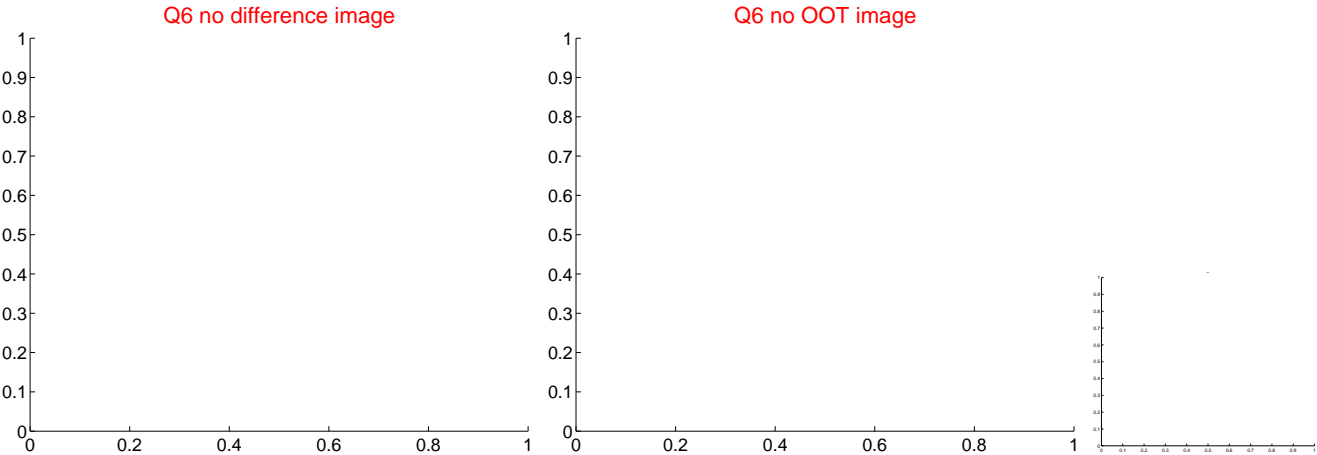
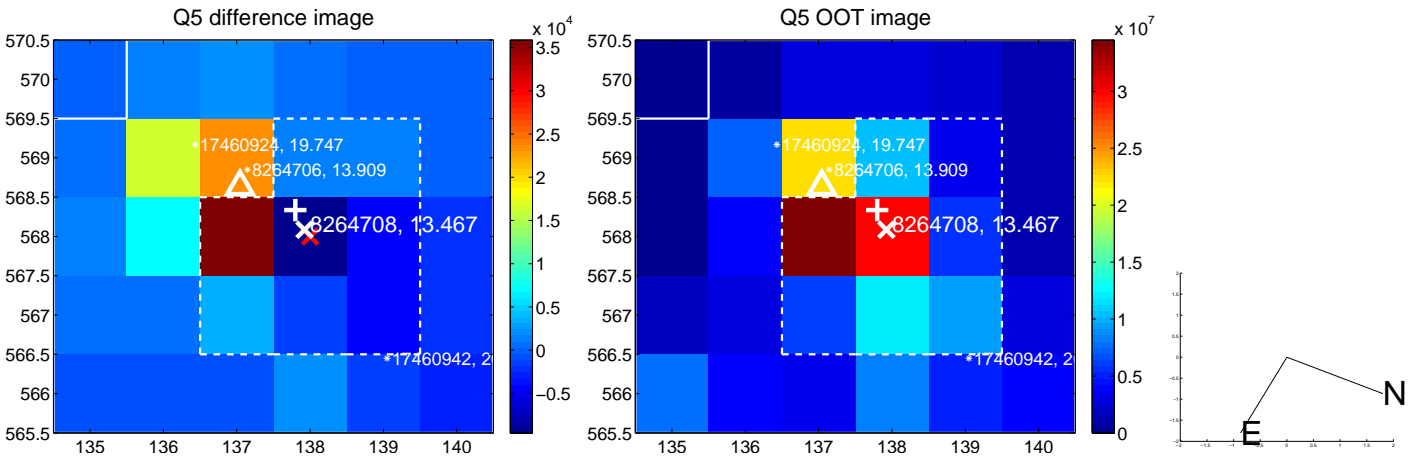


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

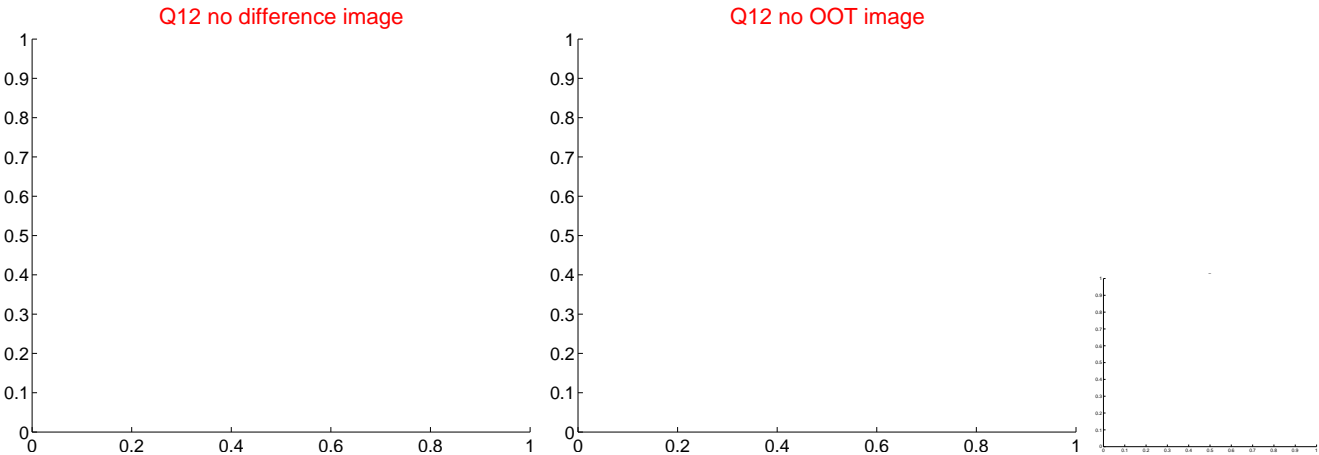
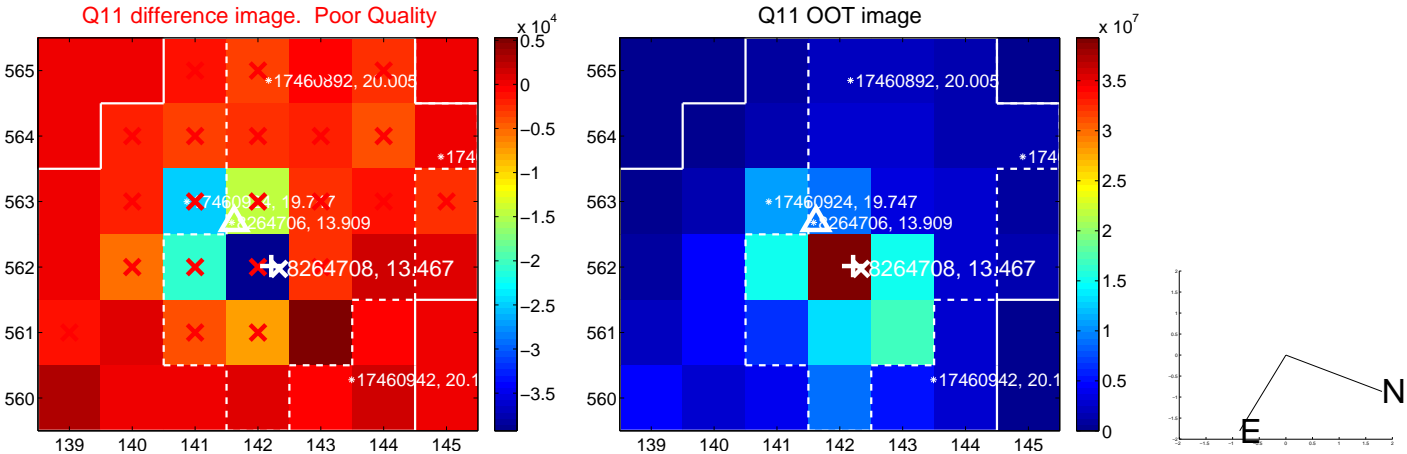
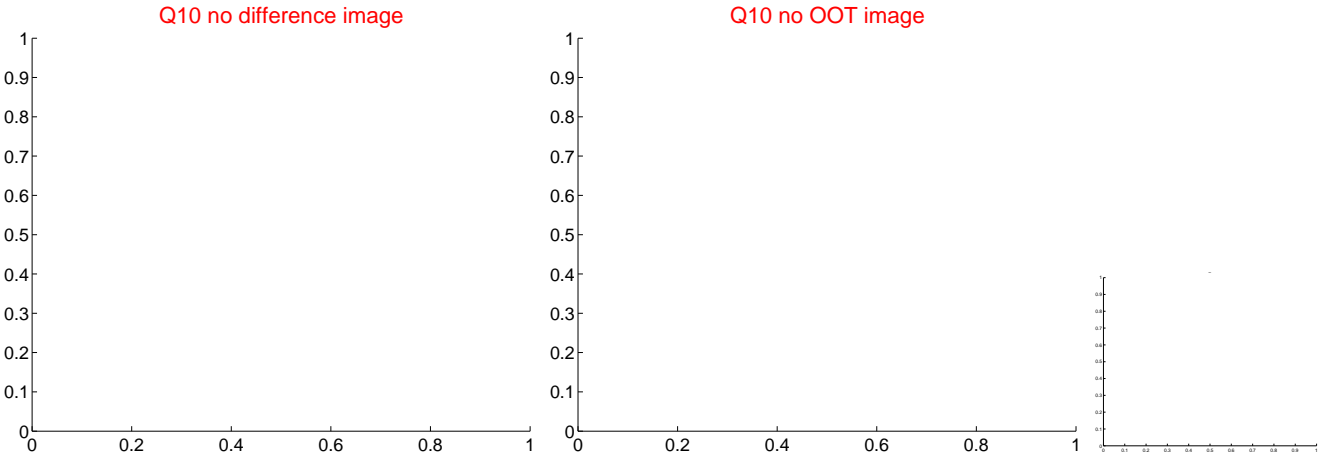
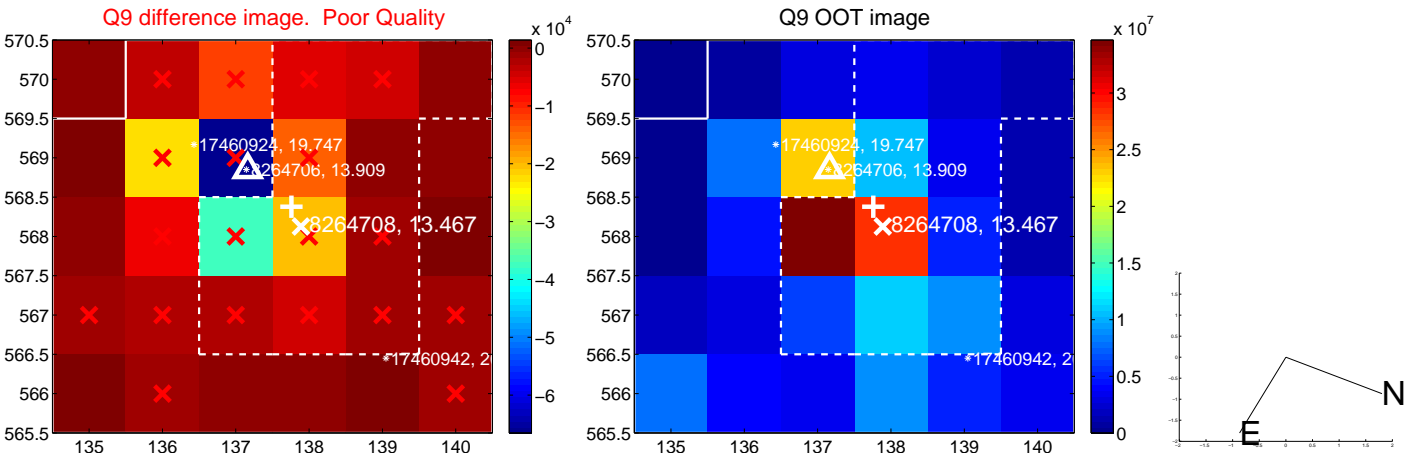
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



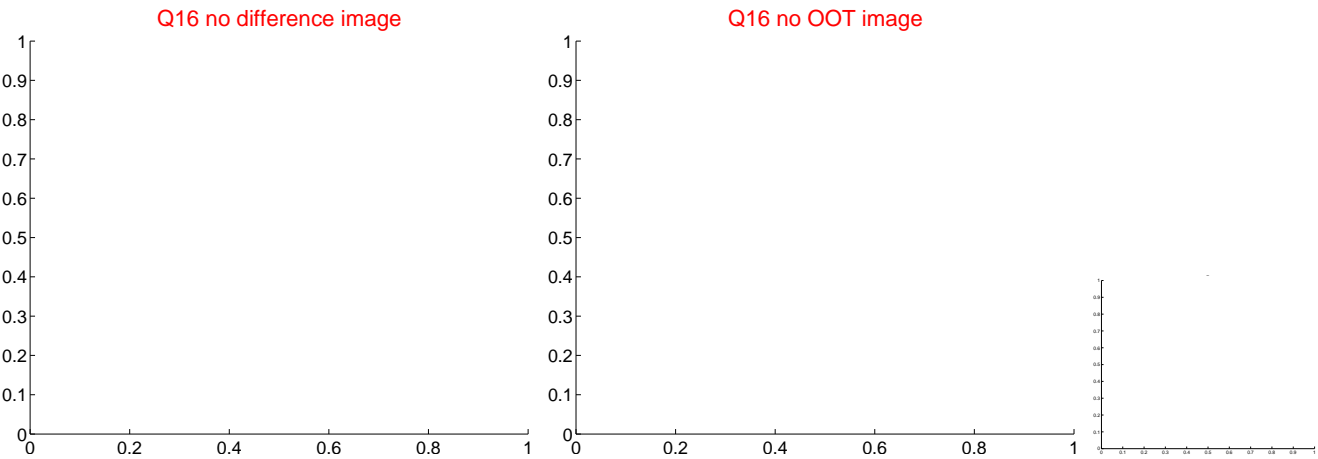
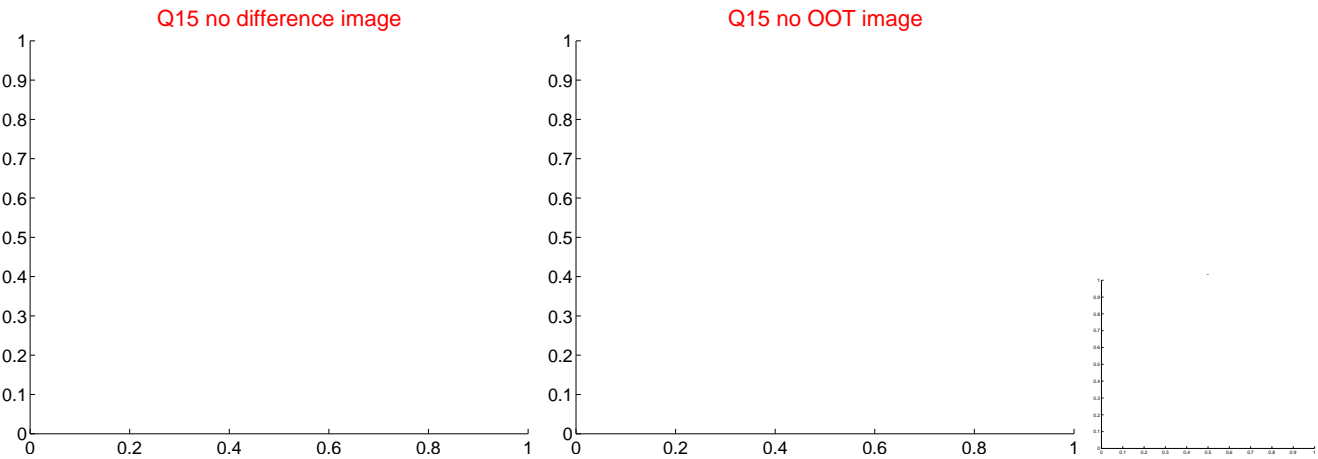
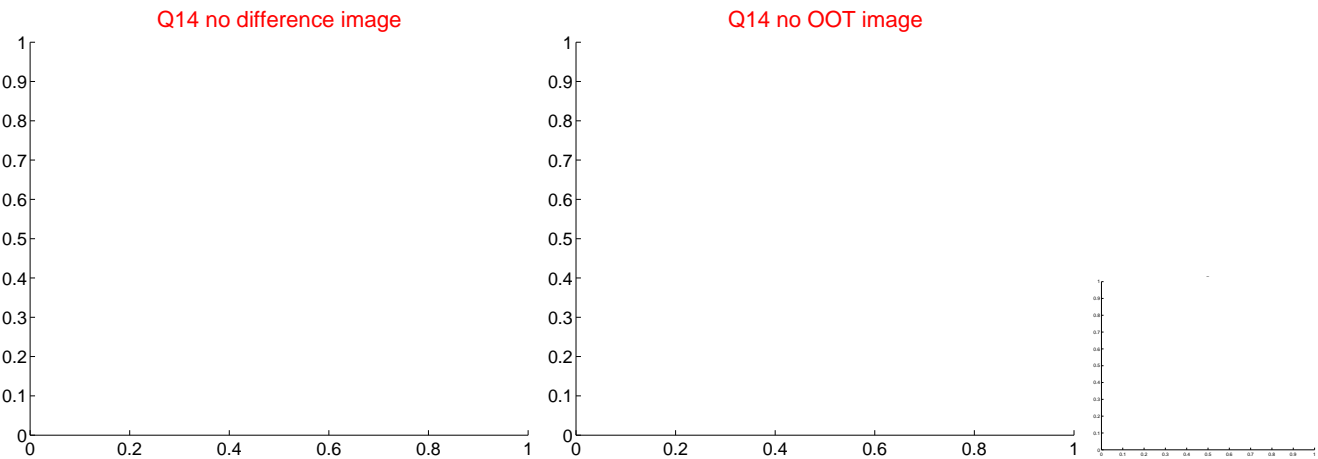
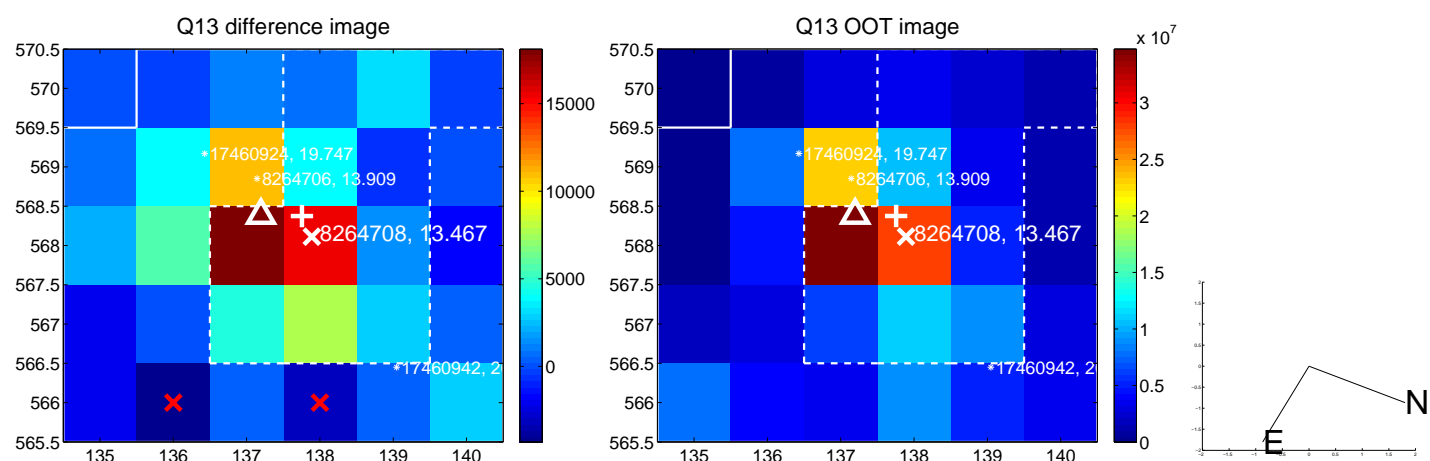
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



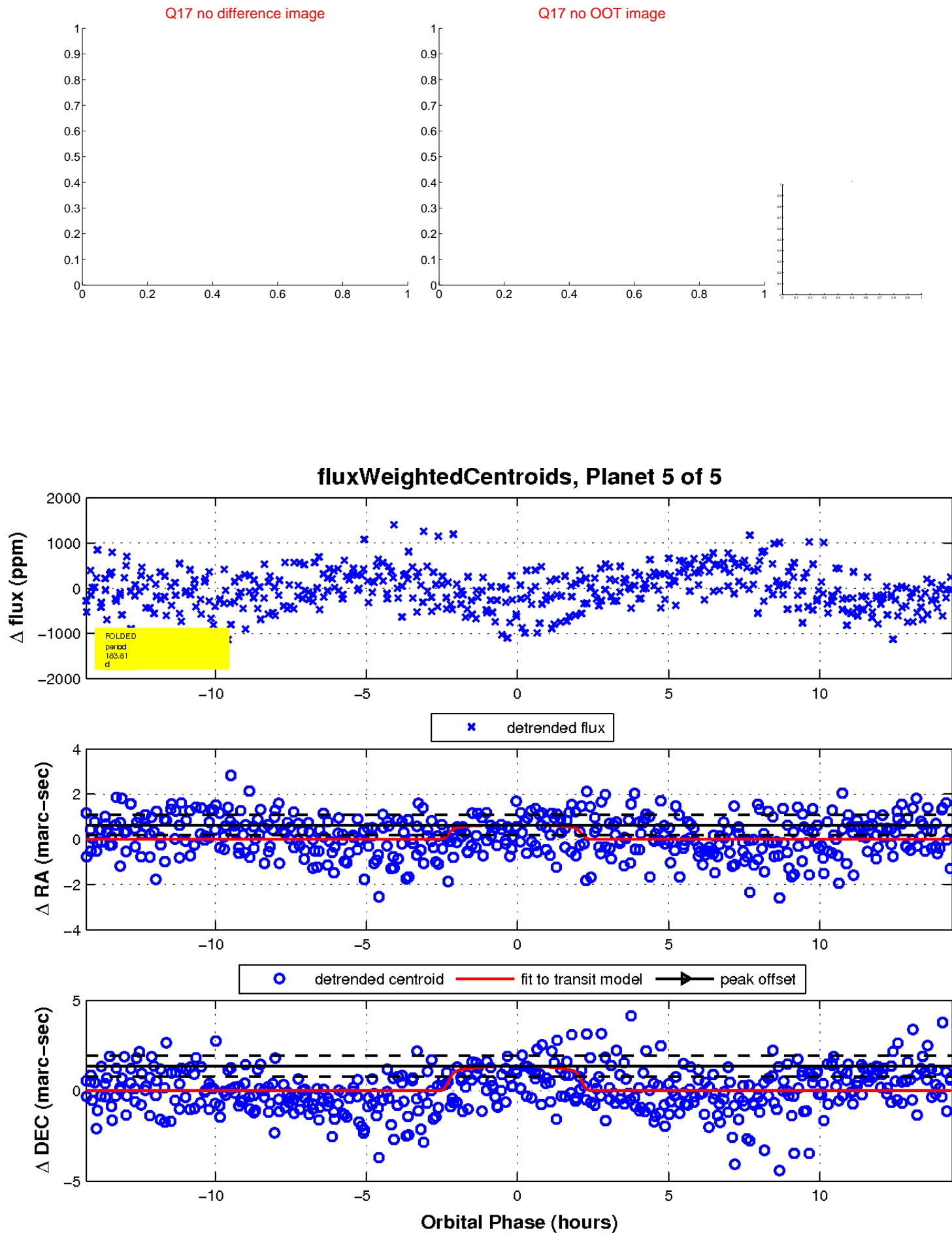
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

