

KIC 005264764

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})
005264764-01	OBS	No	2.857759	133.651364	83.4	13.109	10.2	11.4	0.84	5207	0.76	356.82
005264764-02	OBS	No	139.134462	204.877997	523.9	14.961	10.2	6.9	0.84	5207	2.03	2.01
005264764-03	OBS	No	183.968472	312.161788	705.4	3.496	8.0	6.2	0.84	5207	2.31	1.38

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005264764-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
005264764-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005264764-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

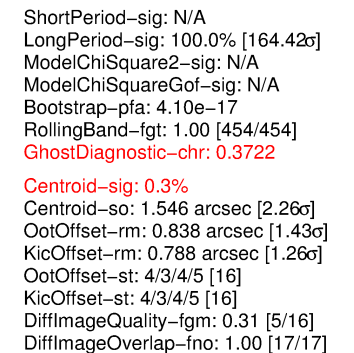
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

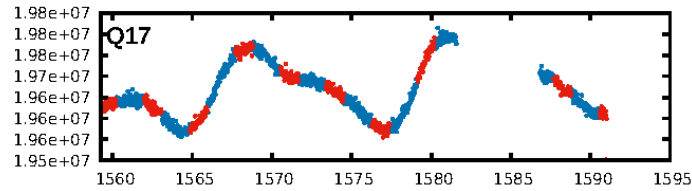
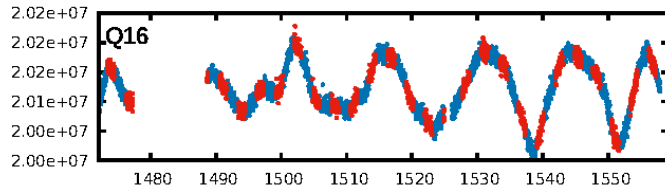
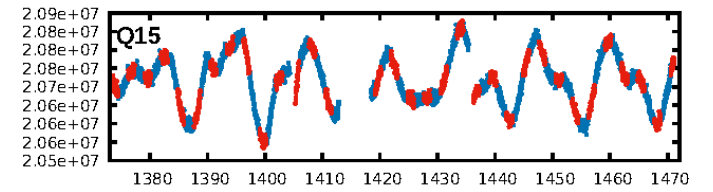
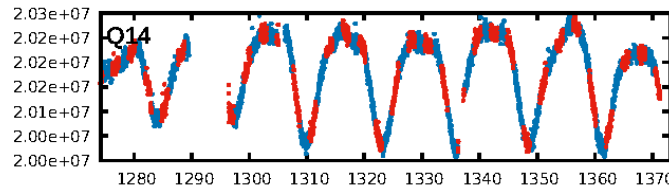
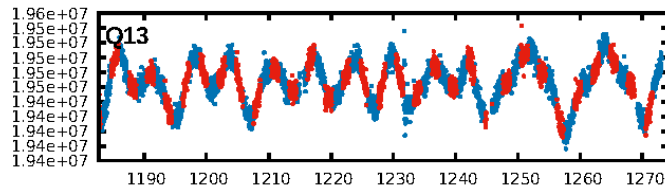
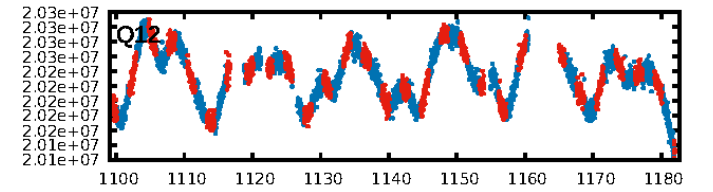
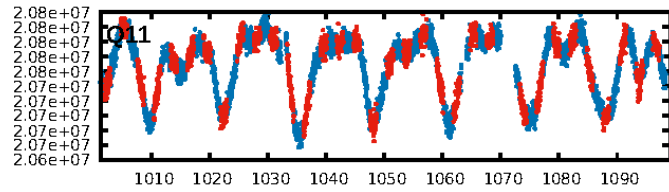
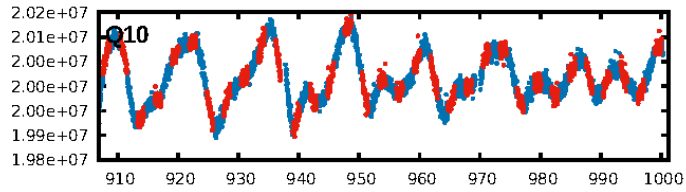
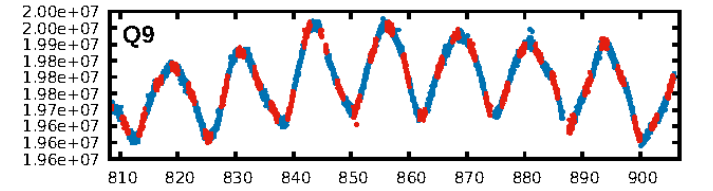
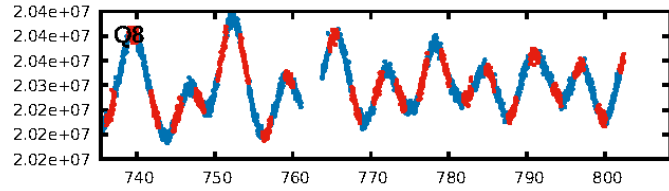
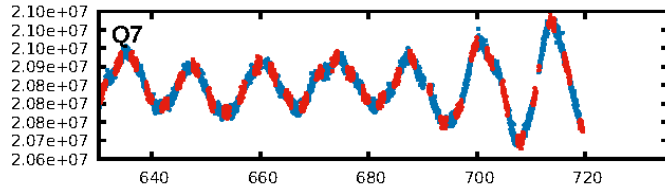
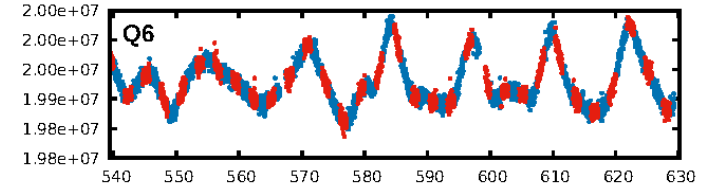
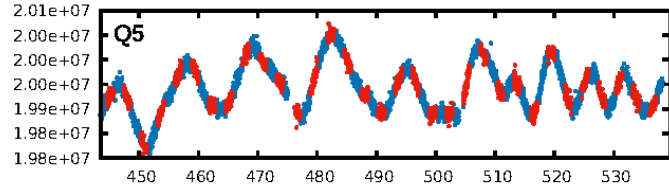
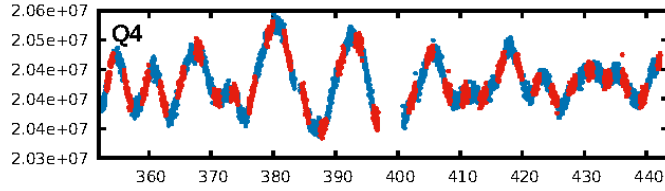
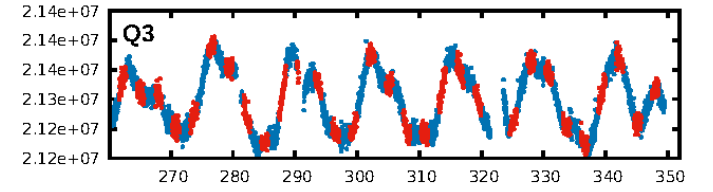
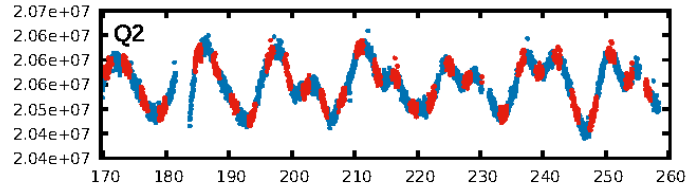
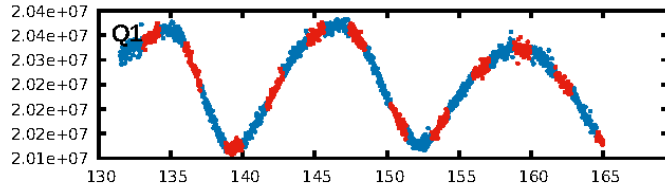
Ephemeris Match Information For 005264764-01

No Significant Match Found

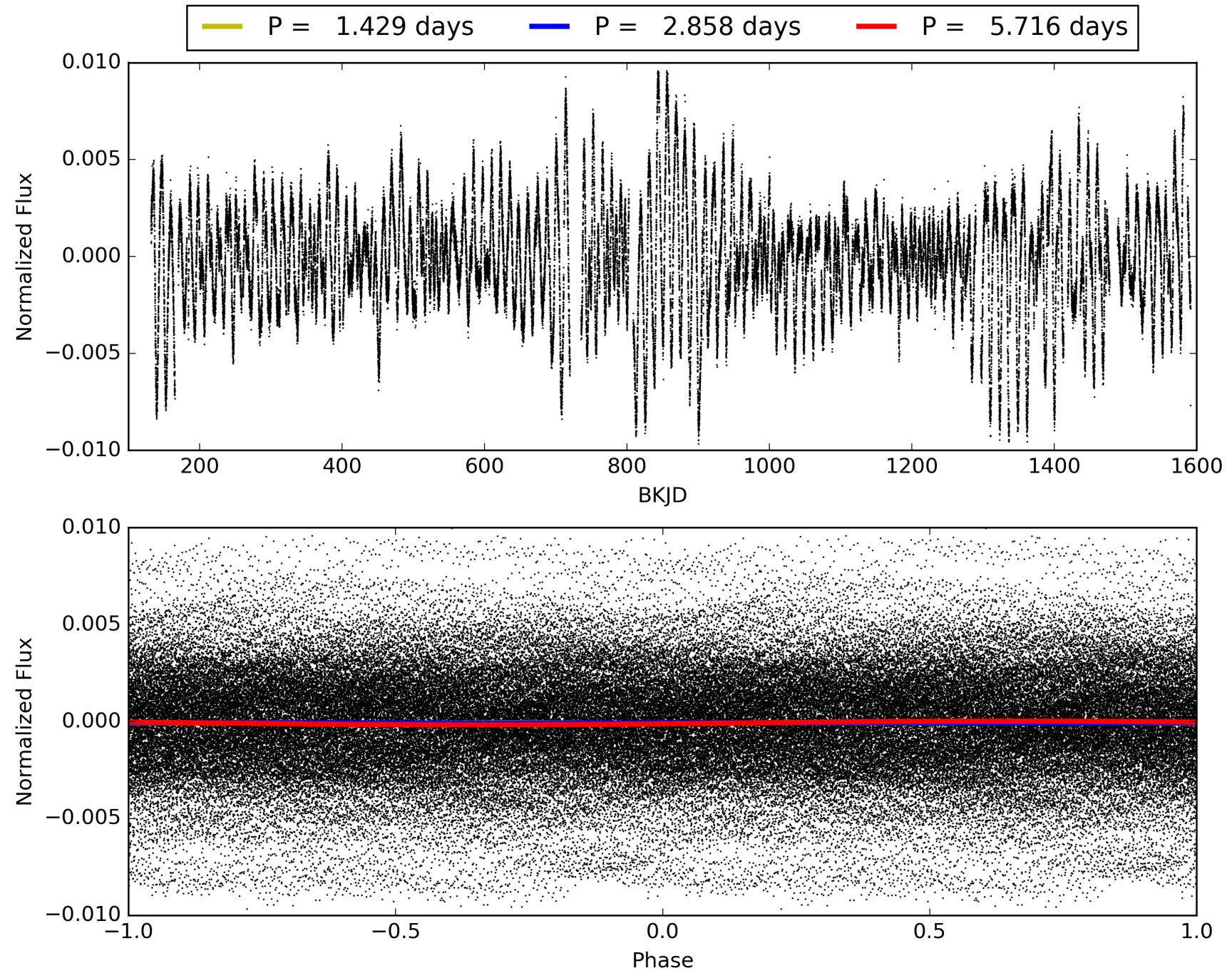
KIC: 5264764 Candidate: 1 of 3 Period: 2.858 d



TCE 005264764-01, PDC Light Curves

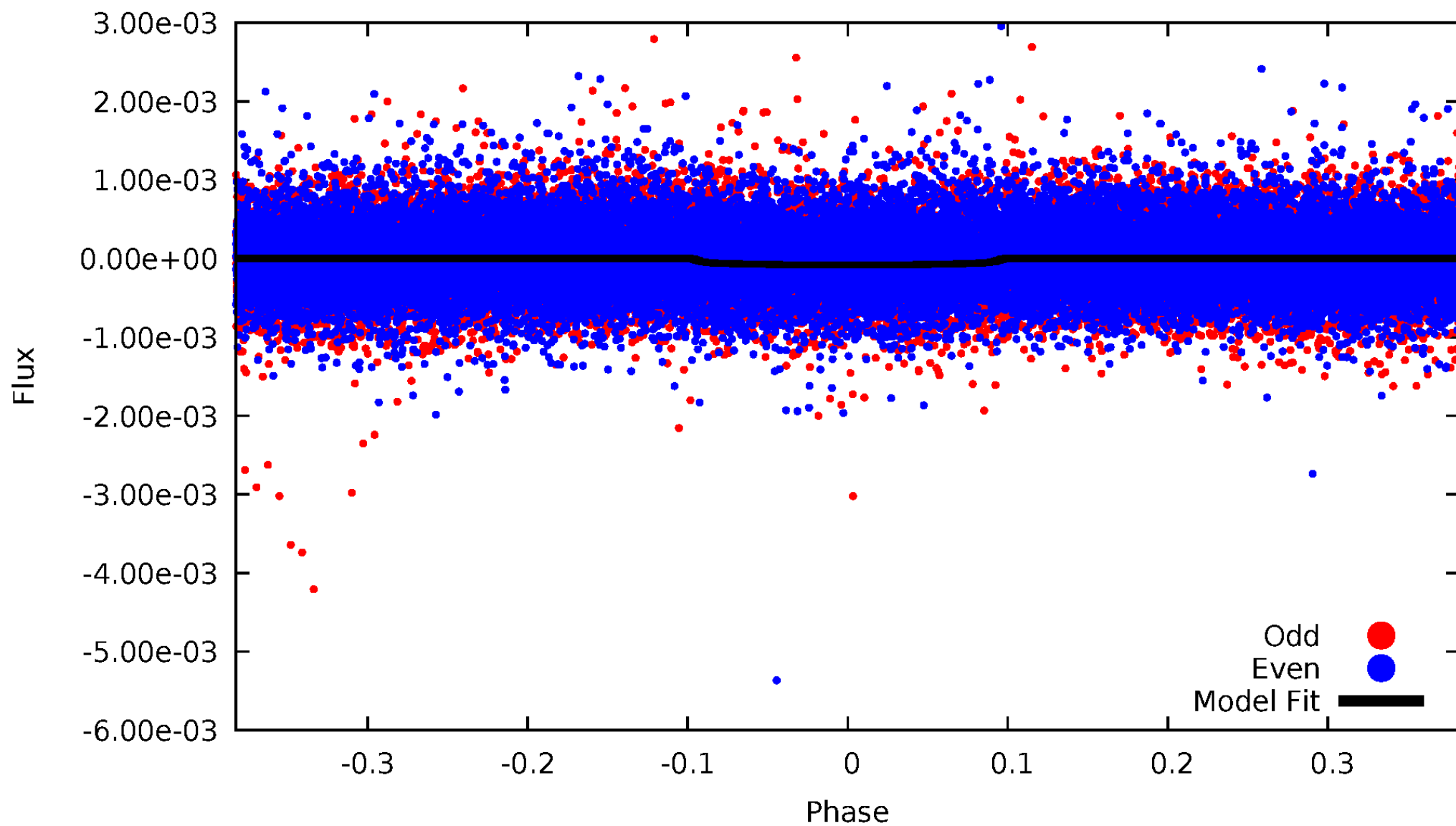


TCE 005264764-01



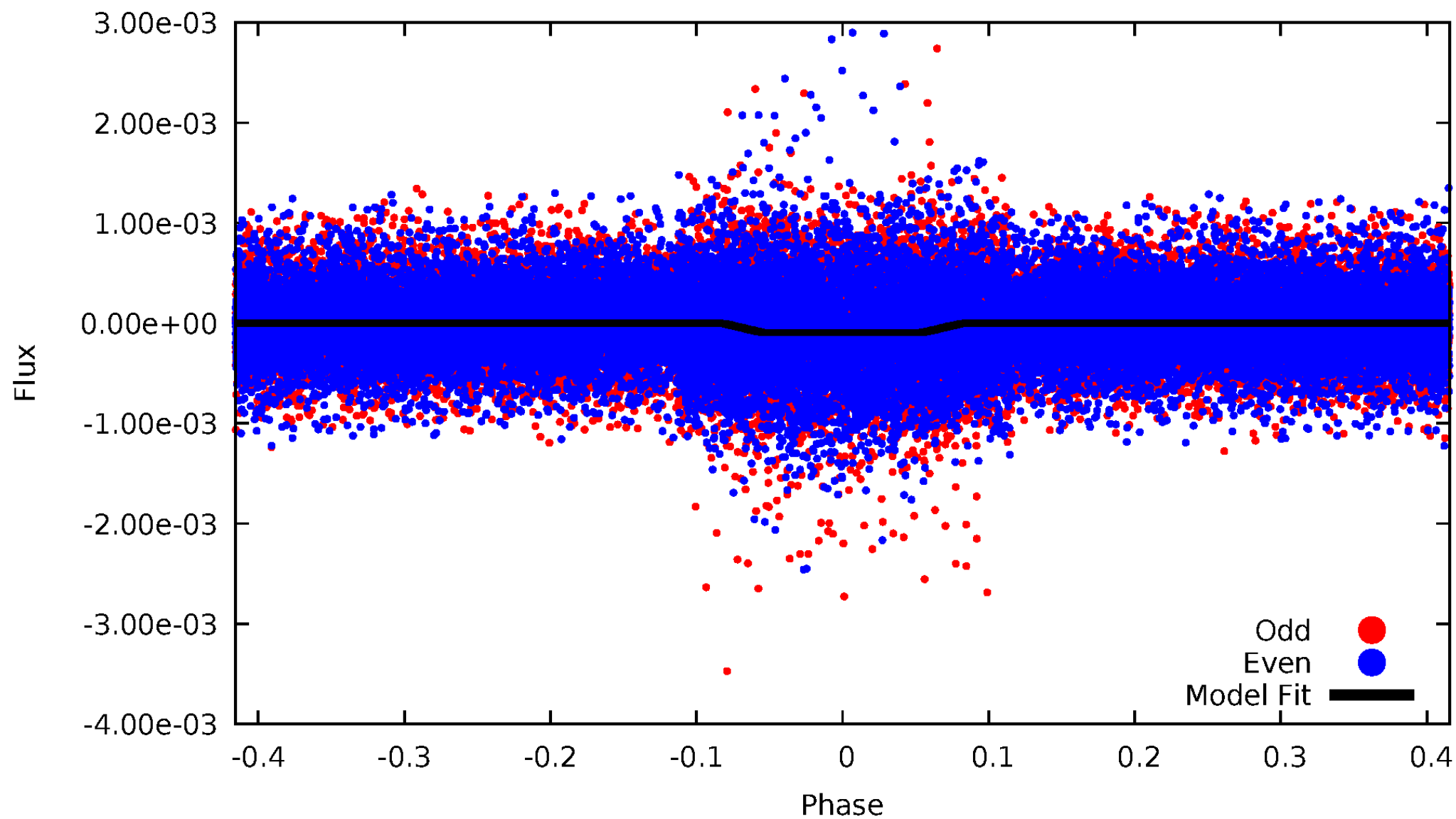
DV Odd/Even

TCE 005264764-01

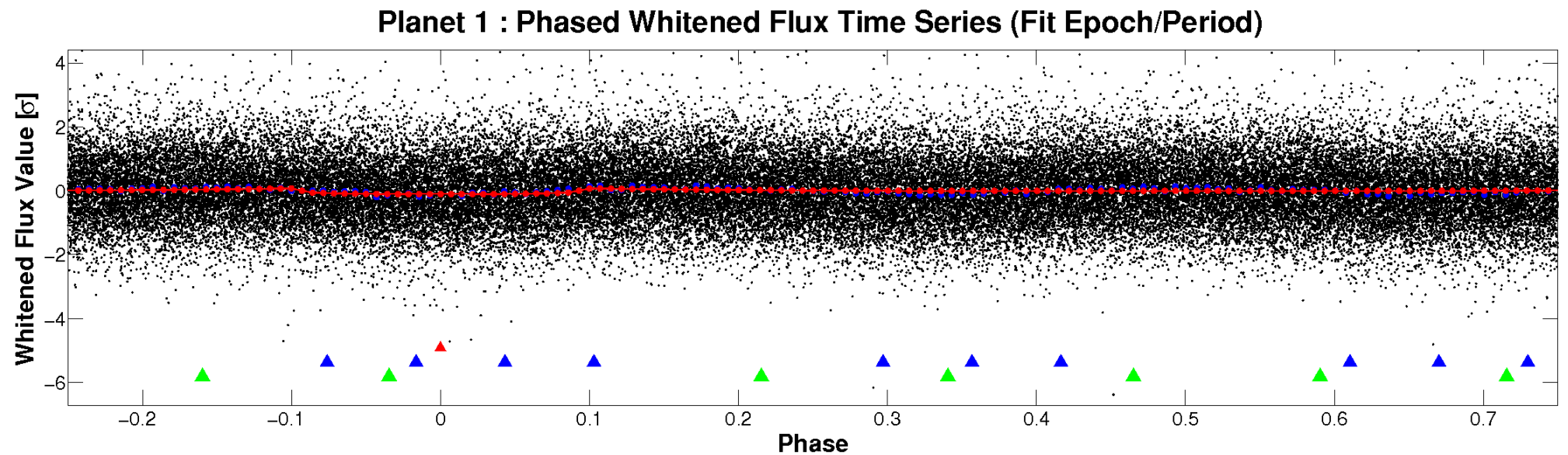
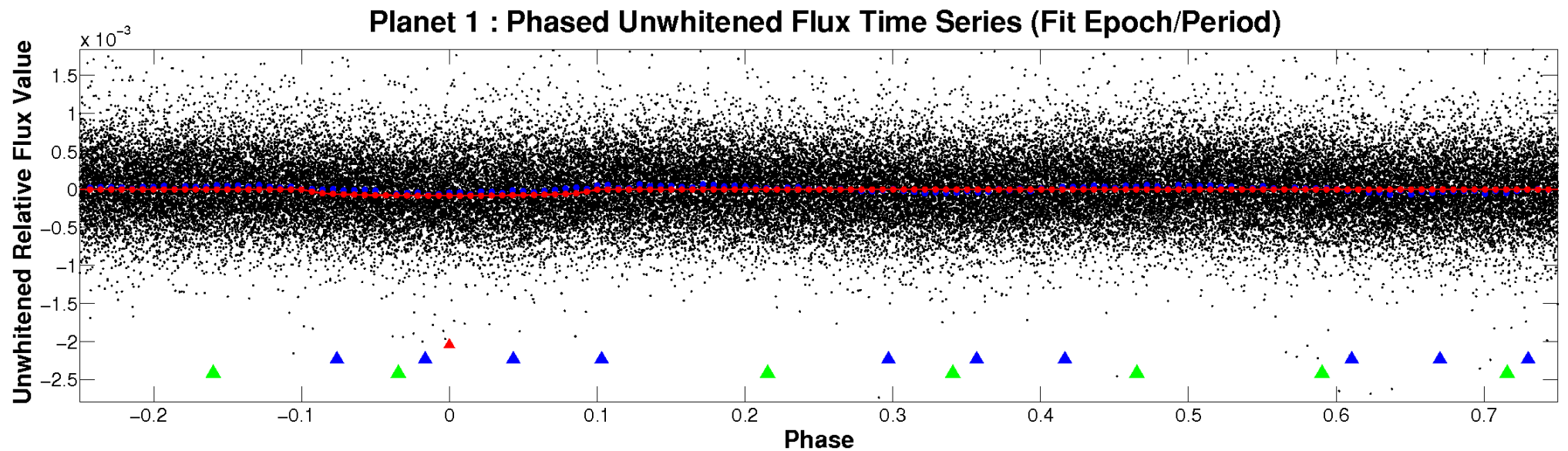


ALT Odd/Even

TCE 005264764-01

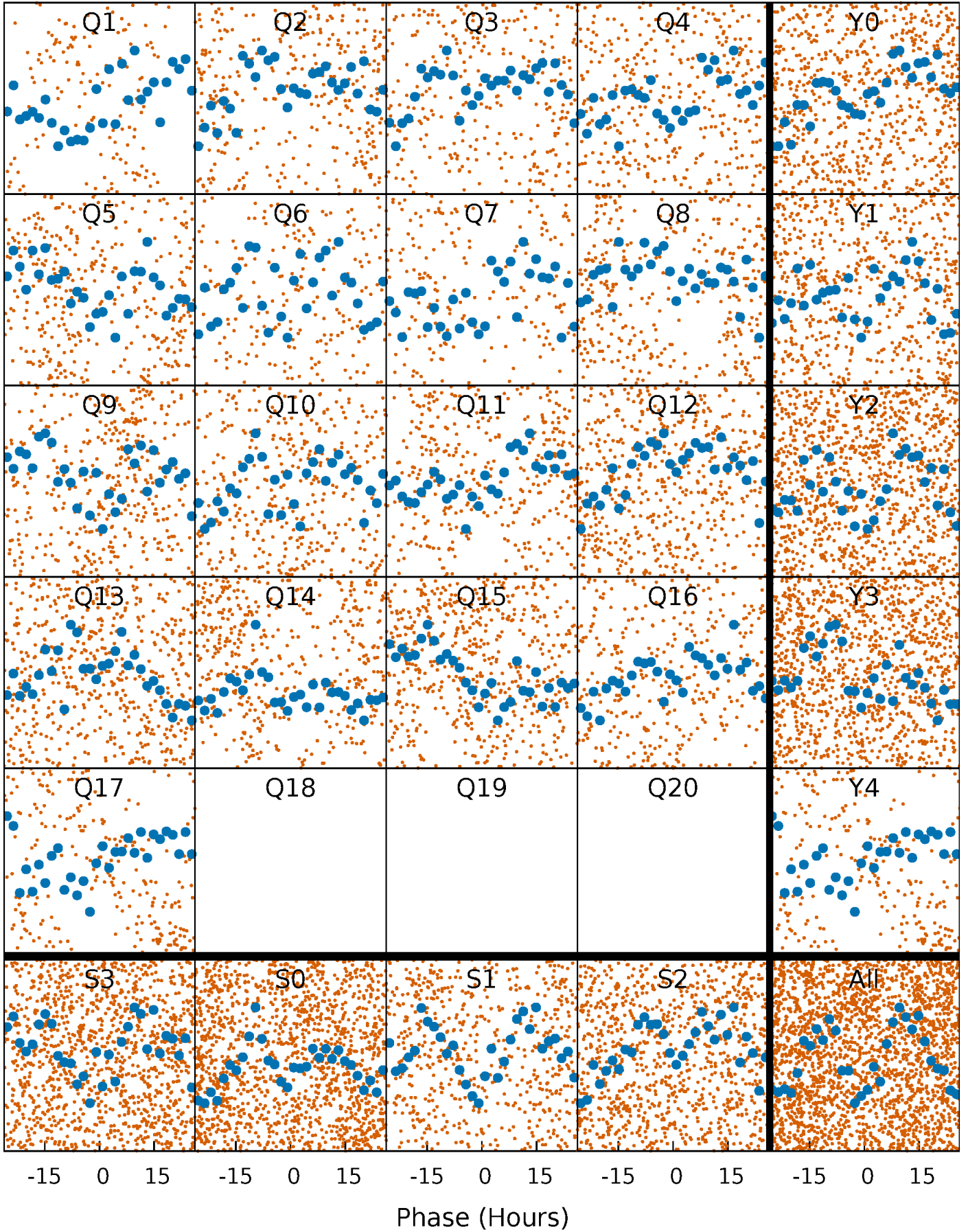


Non-Whitened Vs. Whitened Light Curve



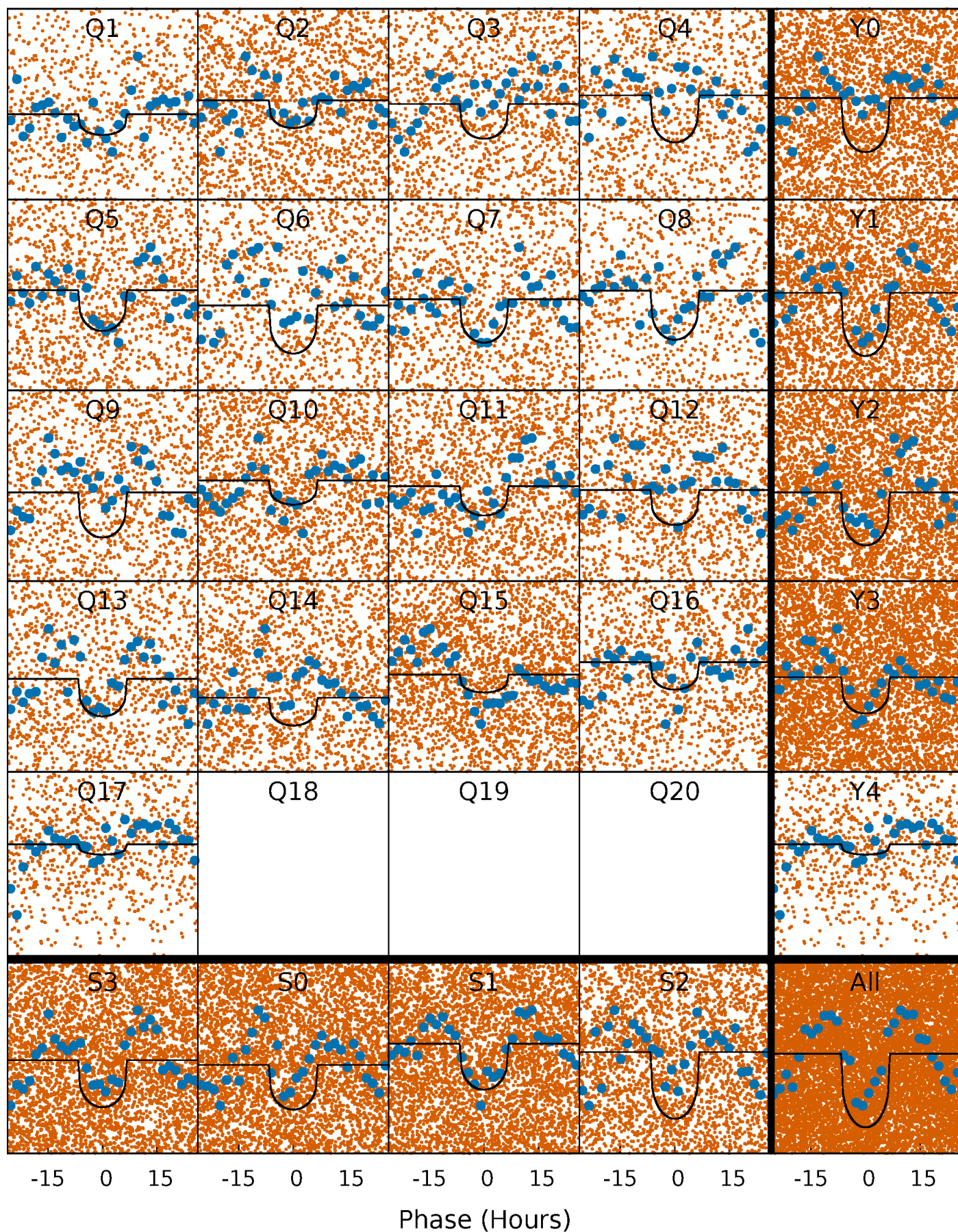
PDC Quarter-Phased Transit Curves

TCE 005264764-01 P= 2.857759 Days $T_0=133.651364$ (BKJD)



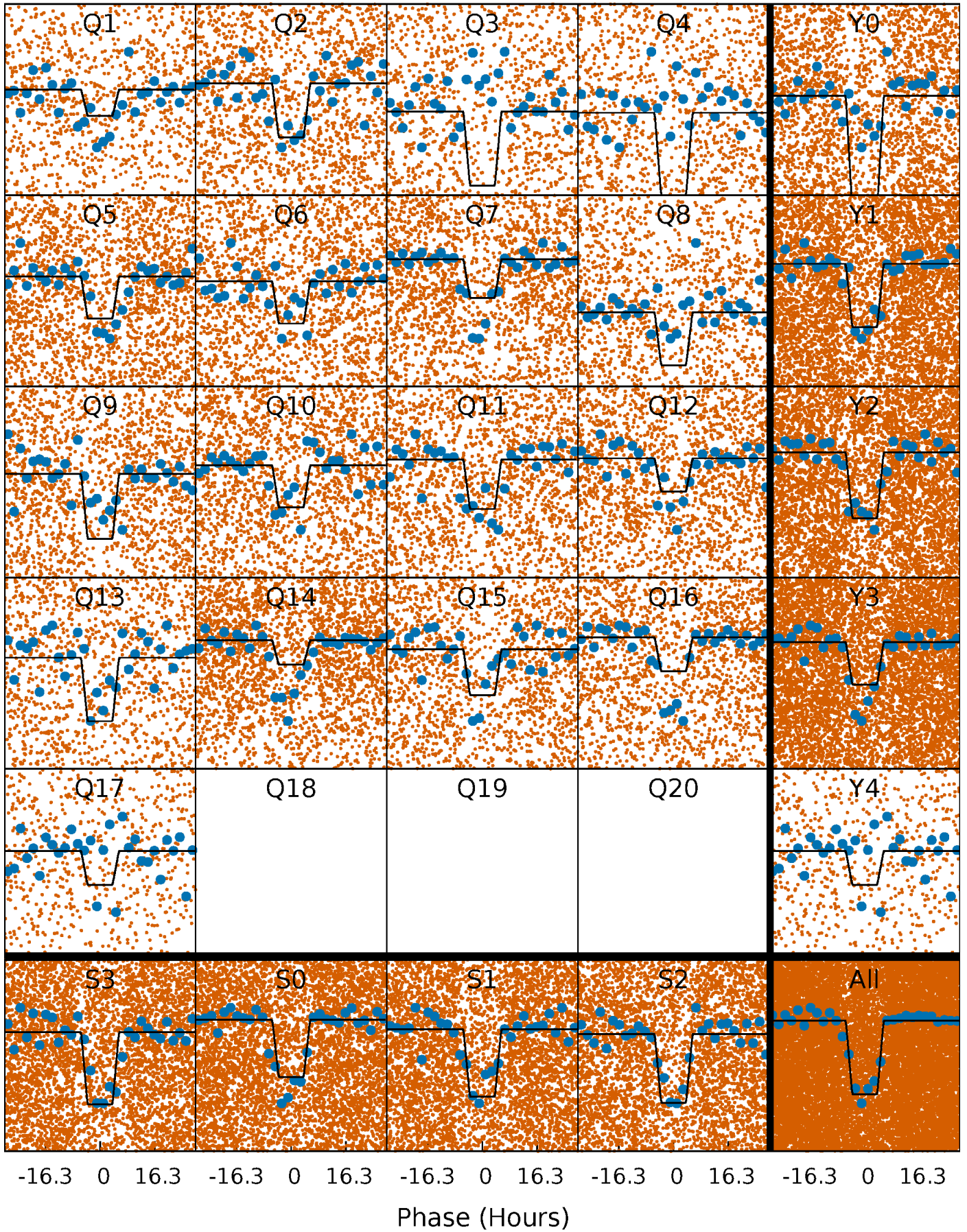
DV Quarter-Phased Transit Curves

TCE 005264764-01 P= 2.857759 Days $T_0=133.651364$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

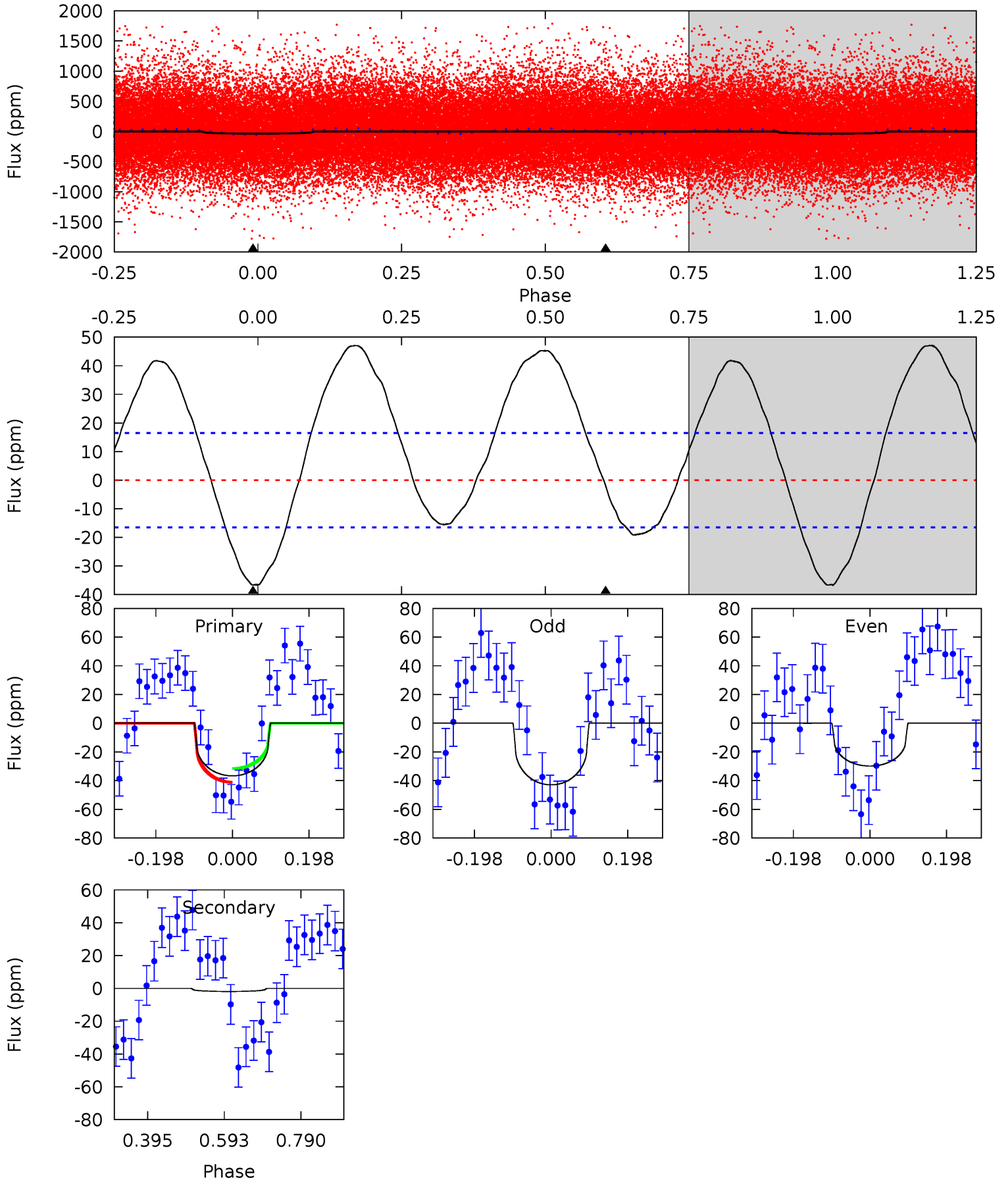
TCE 005264764-01 P= 2.857604 Days $T_0=133.696387$ (BKJD)



DV Model-Shift Uniqueness Test

005264764-01, P = 2.857759 Days, E = 130.793605 Days

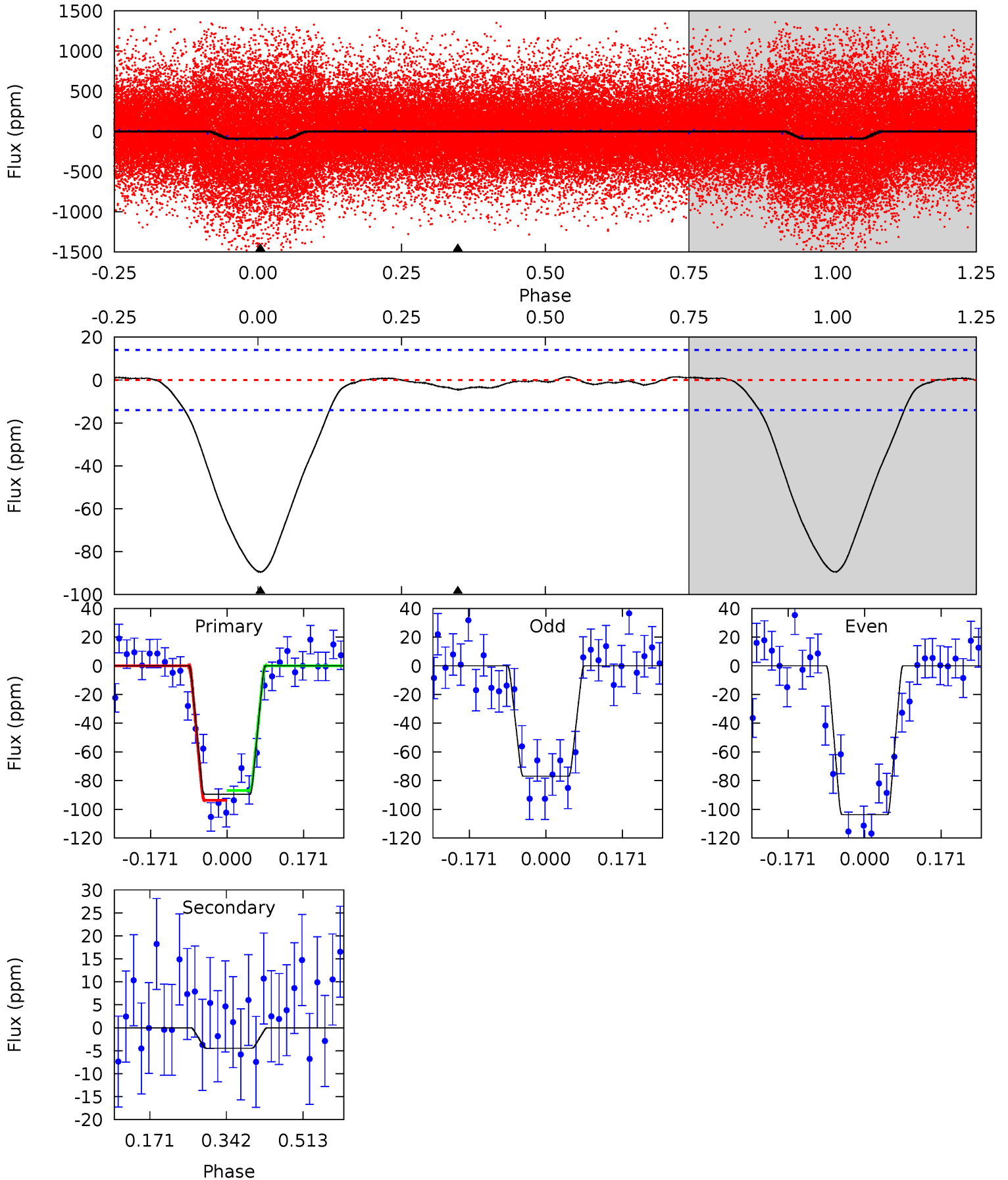
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.83	0.50	0	0	4.42	1.29	4.84	9.83	9.83	0.50	0.50	1.74	0.83	0.56	1.25



Alt Model-Shift Uniqueness Test

005264764-01, P = 2.857604 Days, E = 130.838783 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.5	1.42	0	0	4.45	1.37	0.38	28.5	28.5	1.42	1.42	4.27	1.02	0.02	1.11



Stellar Parameters For KIC 005264764

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5207^{+158}_{-158}	$4.477^{+0.104}_{-0.127}$	$-0.060^{+0.300}_{-0.300}$	$0.845^{+0.117}_{-0.105}$	$0.783^{+0.103}_{-0.060}$	$1.825^{+0.803}_{-0.601}$
	+3%/-3%	+2%/-3%	+500%/-500%	+14%/-12%	+13%/-8%	+44%/-33%
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 005264764-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-2 ± 4	$0.84^{+0.47}_{-0.44}$	1555^{+83}_{-74}	2612^{+897}_{-5462}	$1.576^{+8.501}_{-3.705}$
Alt.	-4 ± 3	$0.95^{+0.48}_{-0.49}$	1554^{+81}_{-70}	2942^{+742}_{-659}	$3.450^{+10.893}_{-2.710}$

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 $A_{obs} \gg 1.0$

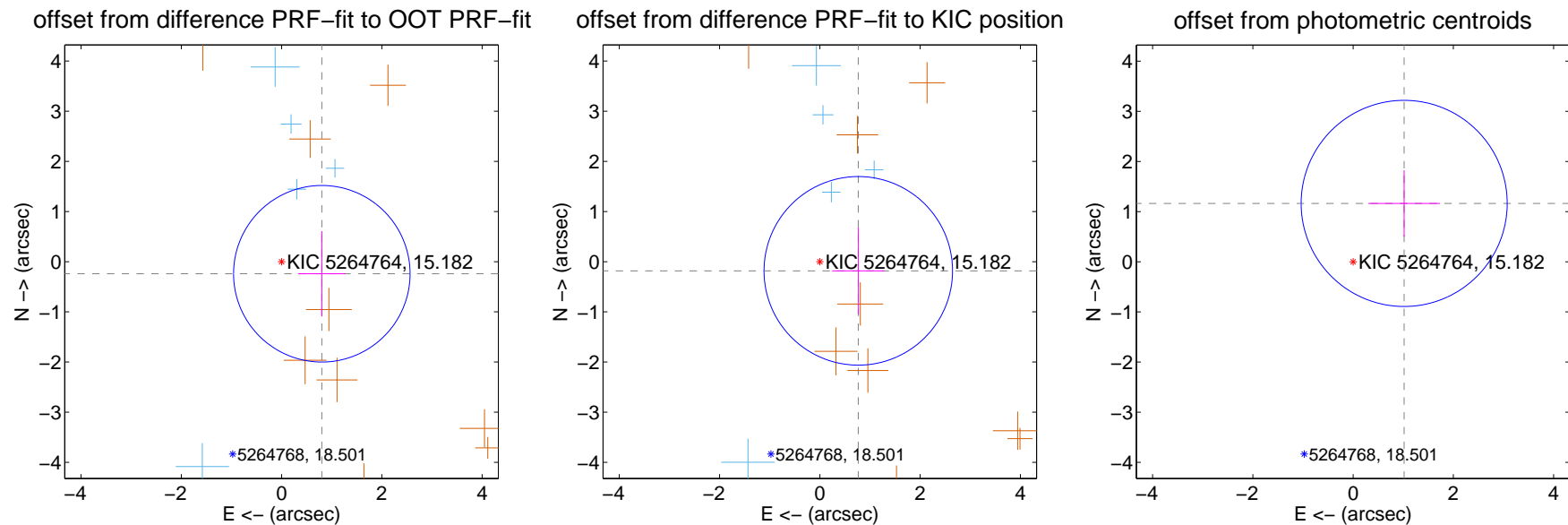
DV Centroid Data

Supplemental centroid analysis for 005264764-01. Kepler magnitude: 15.18. Transit SNR 11.42

There are 5 quarters with good PRF difference image offsets

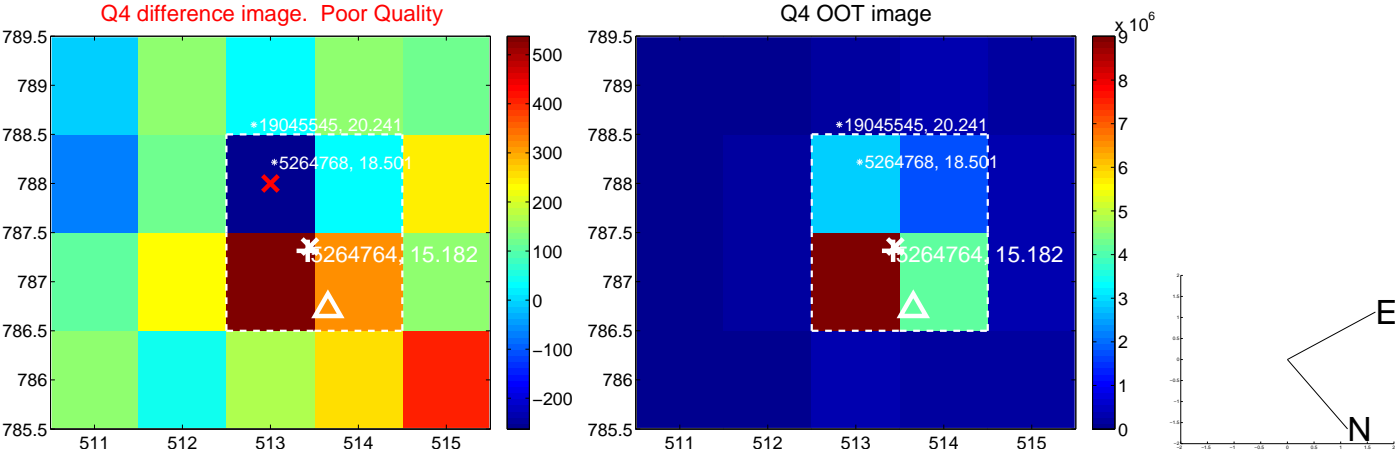
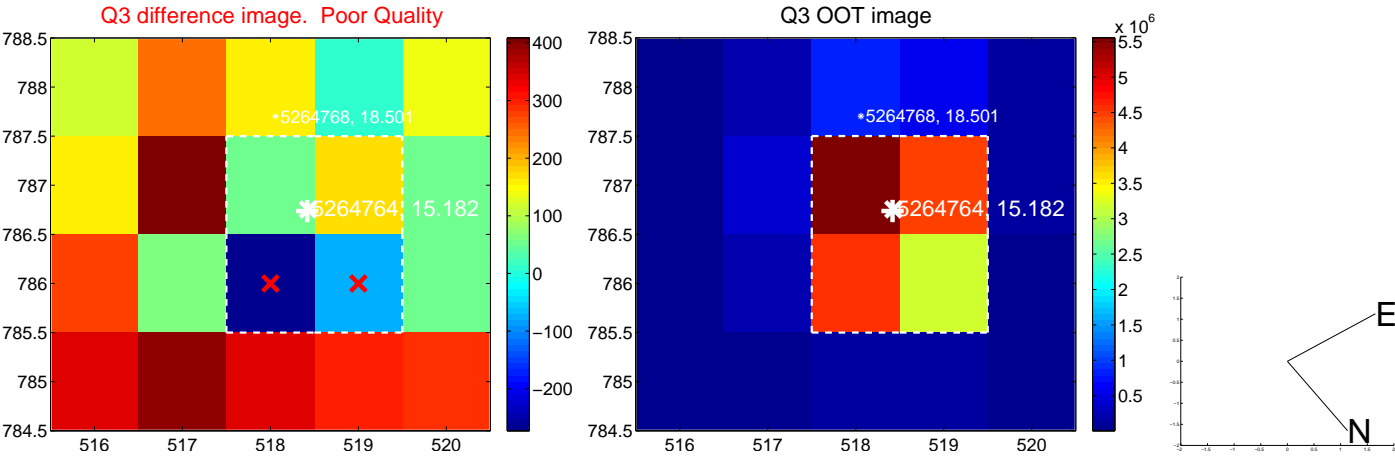
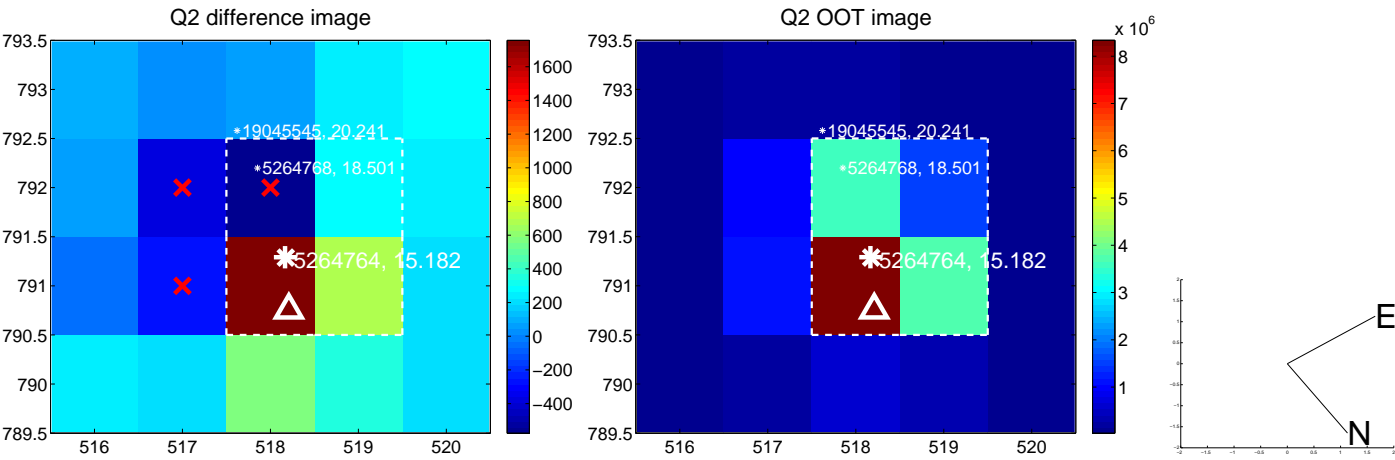
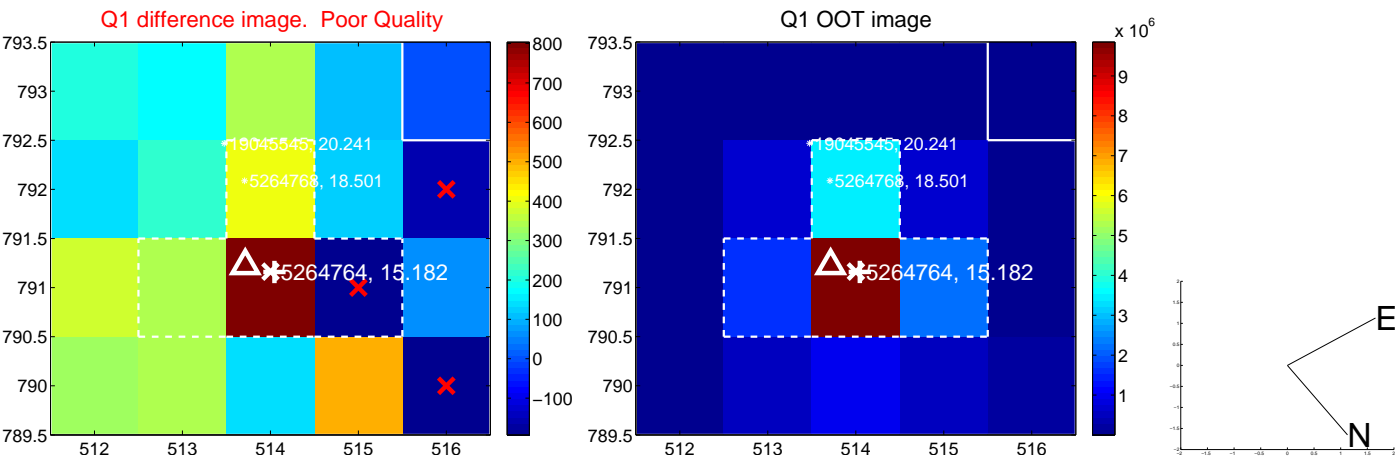
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.838 ± 0.586	1.43	-0.802 ± 0.472	-0.240 ± 0.851
PRF-fit source offset from KIC position	0.788 ± 0.626	1.26	-0.767 ± 0.517	-0.182 ± 0.867
photometric centroid source offset	1.55 ± 0.68	2.26	-1.02 ± 0.72	1.16 ± 0.66

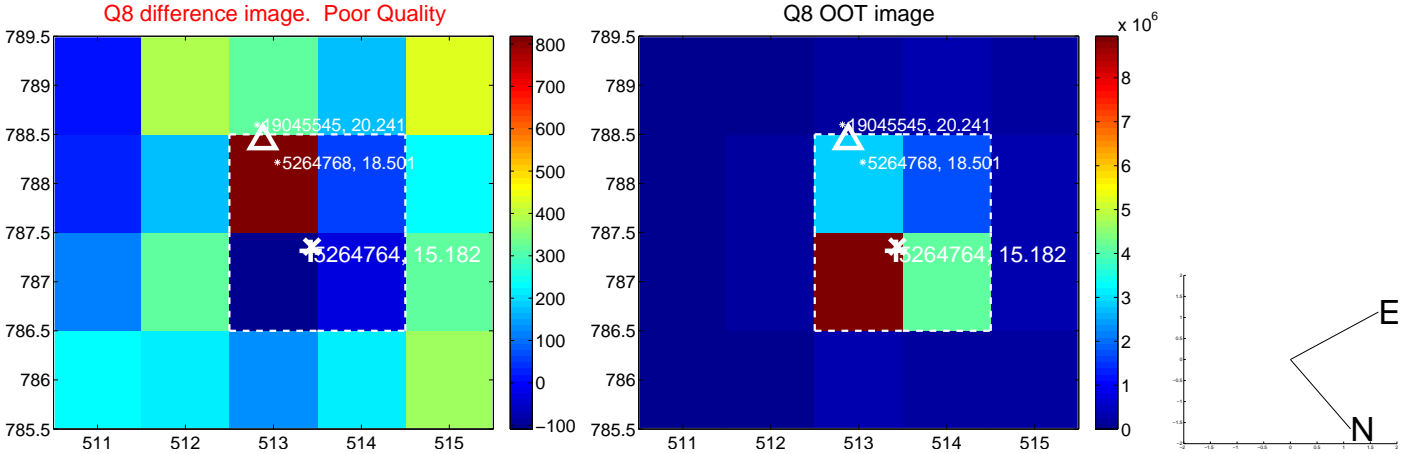
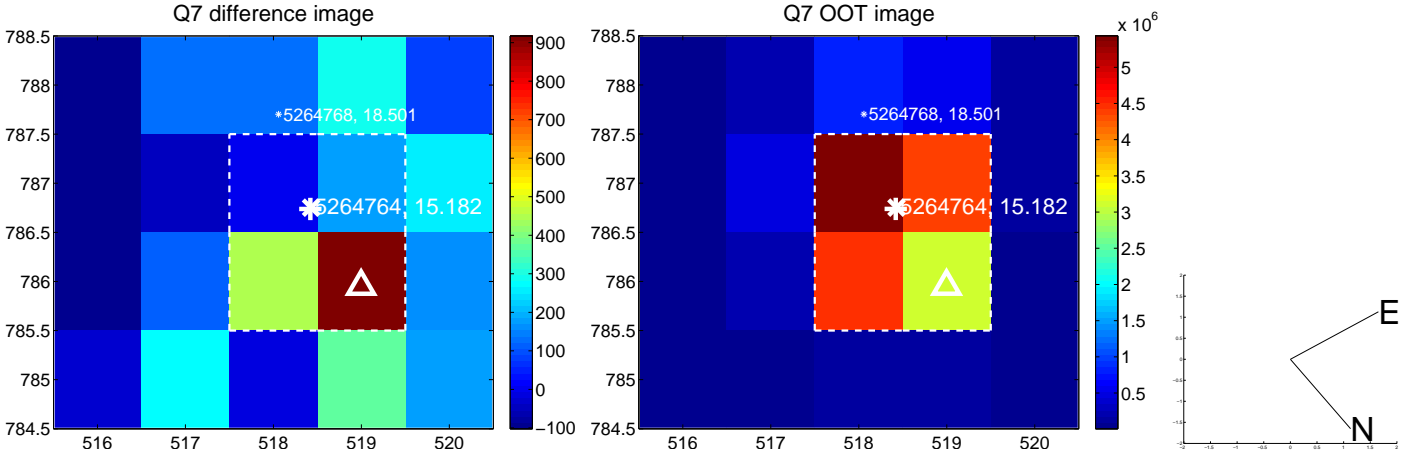
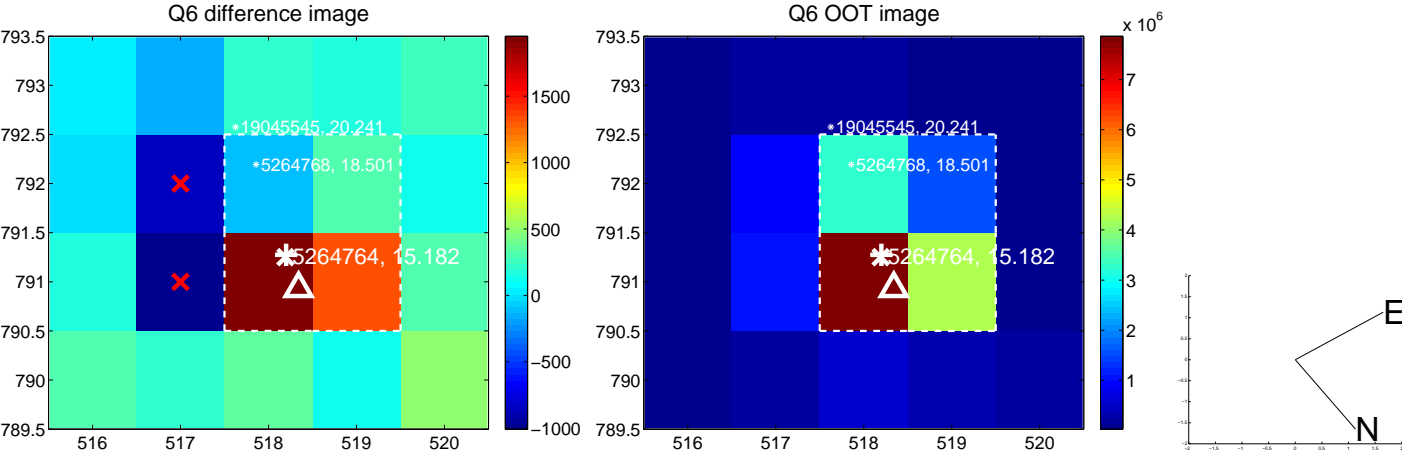
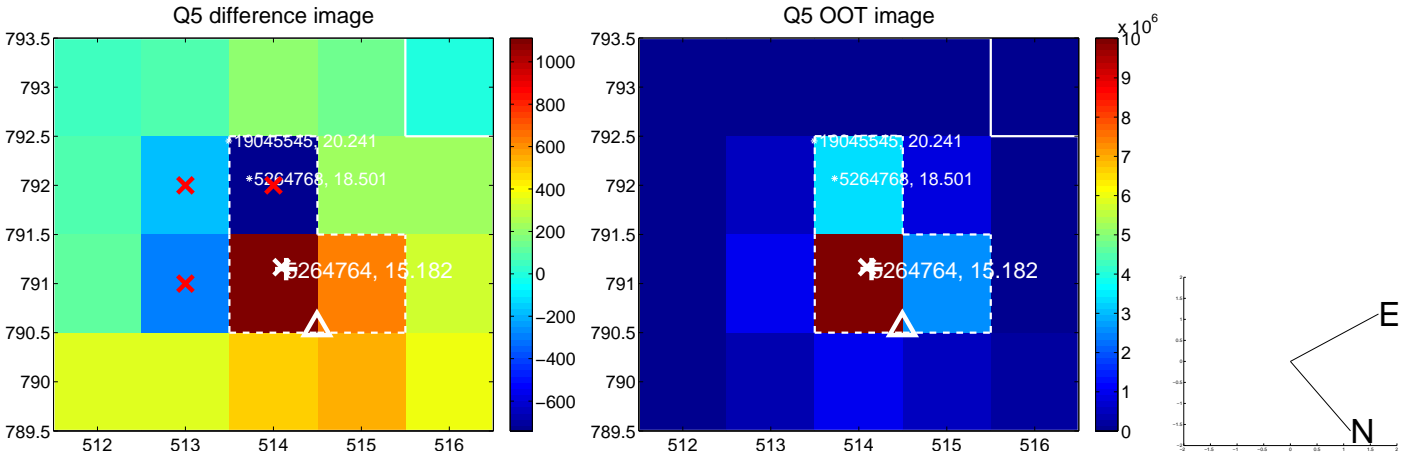


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

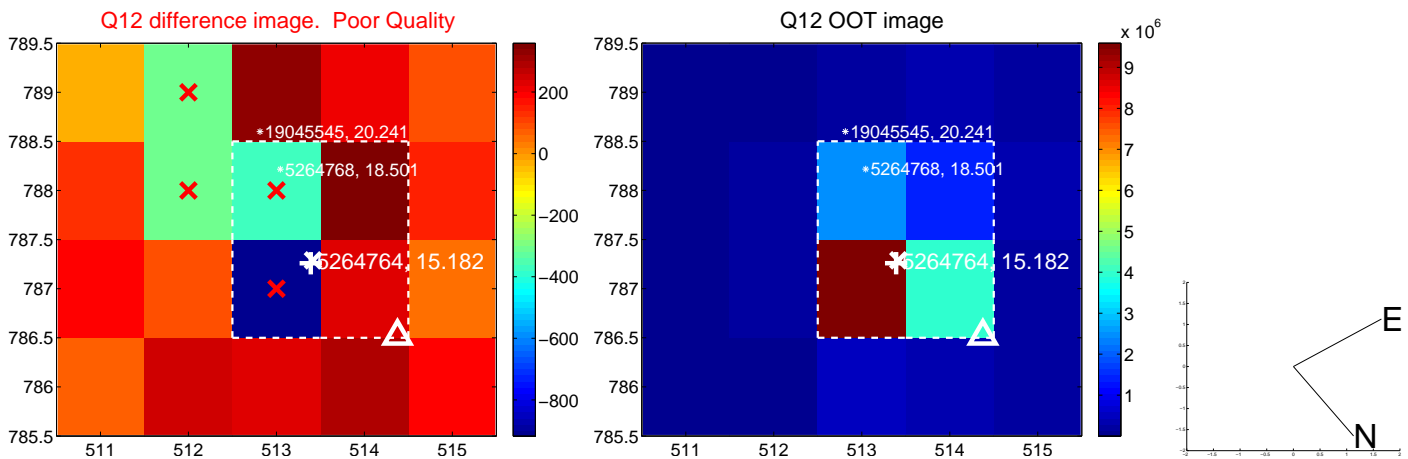
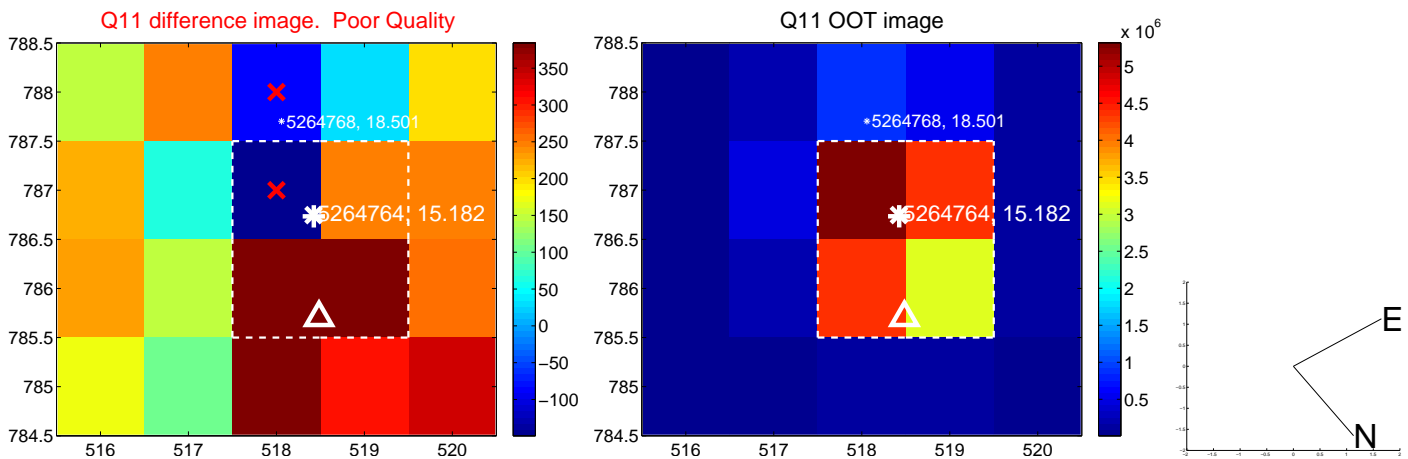
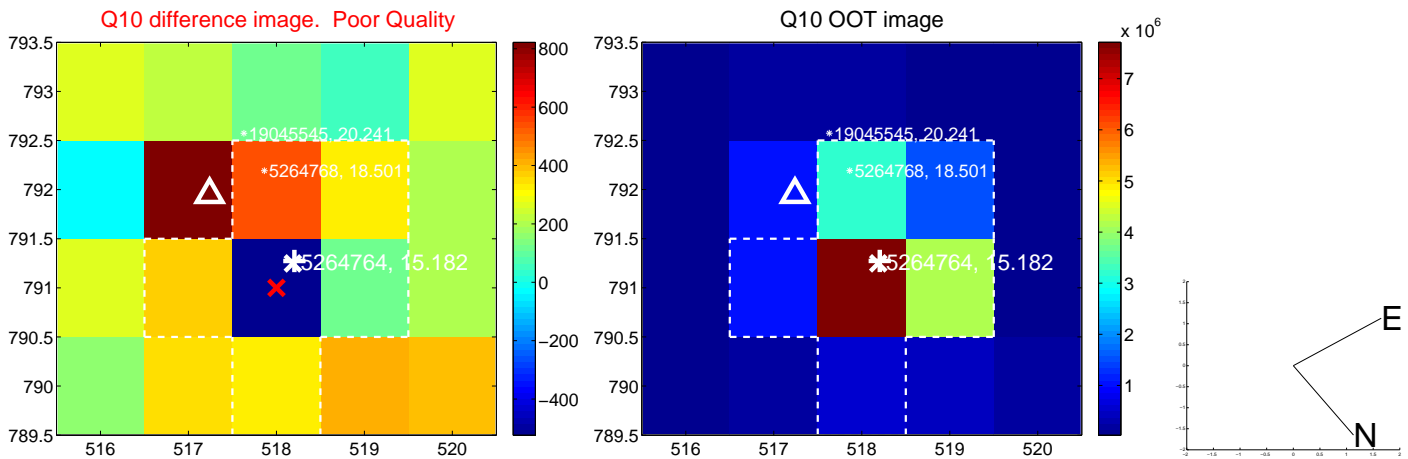
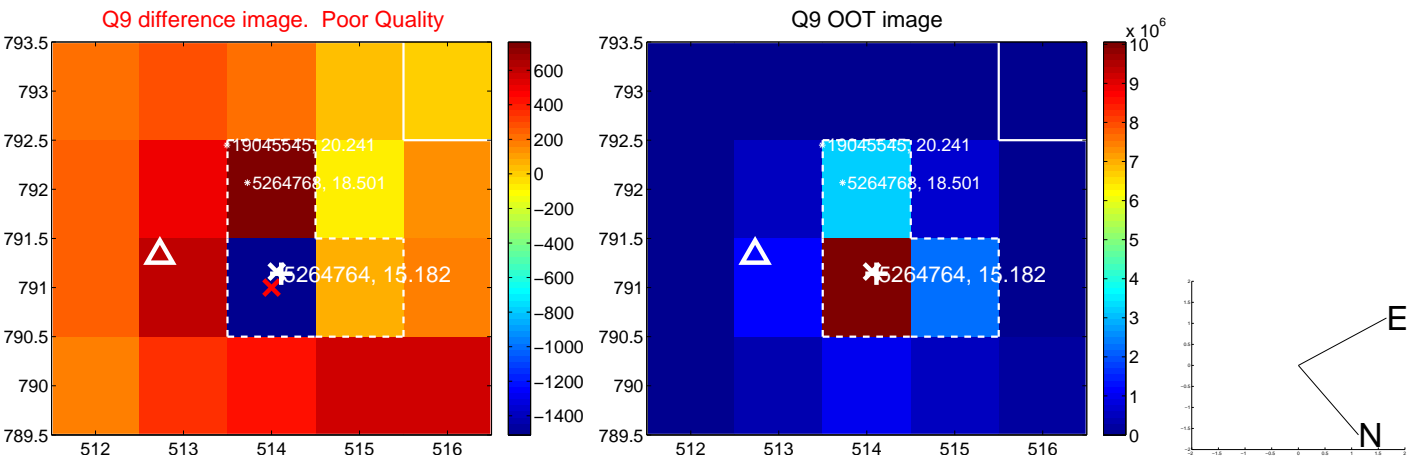
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



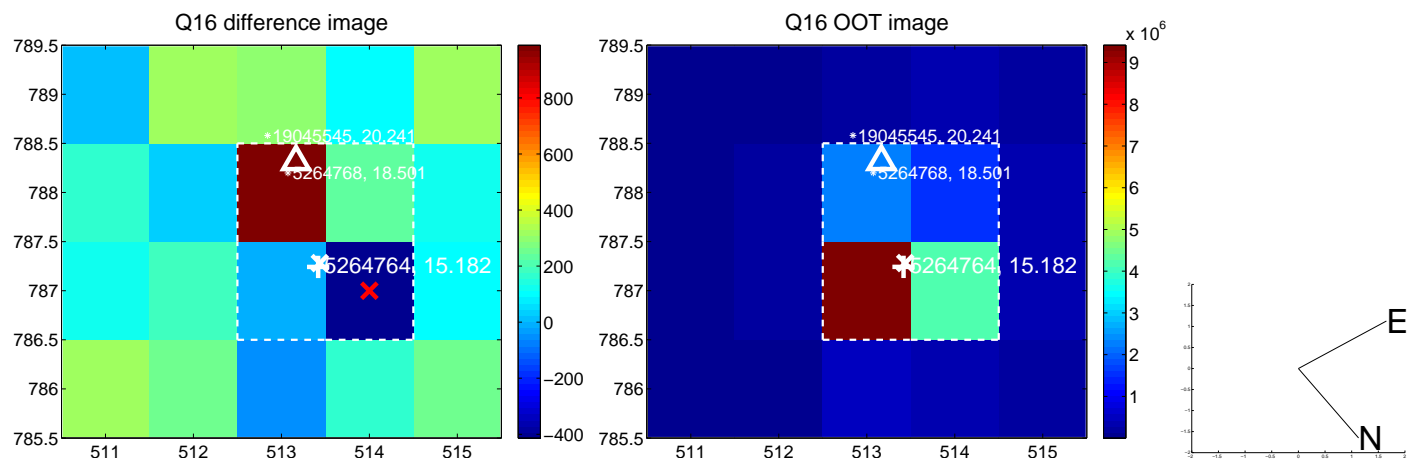
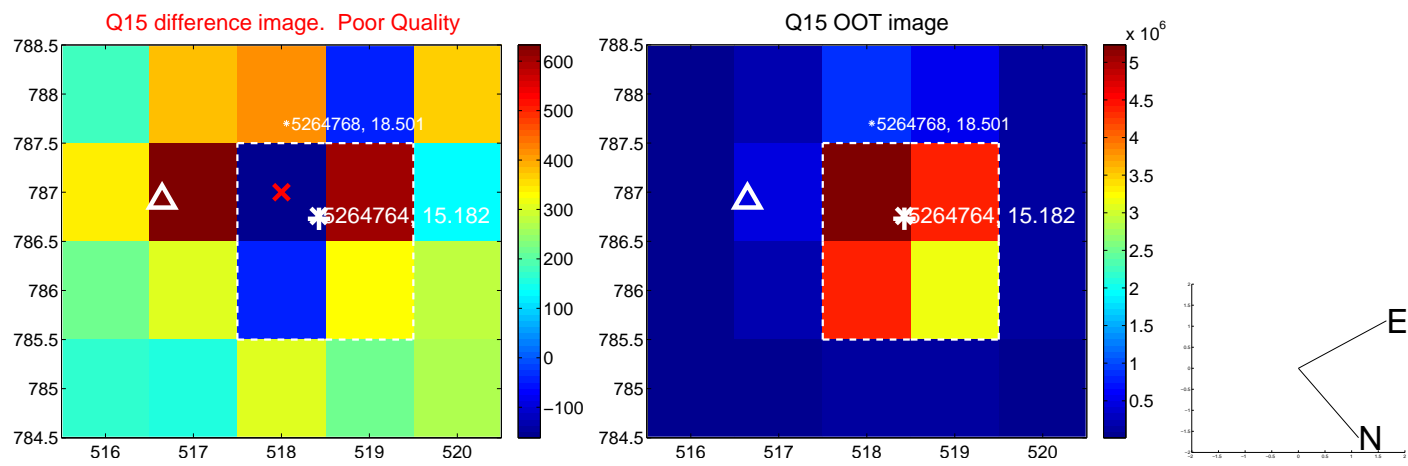
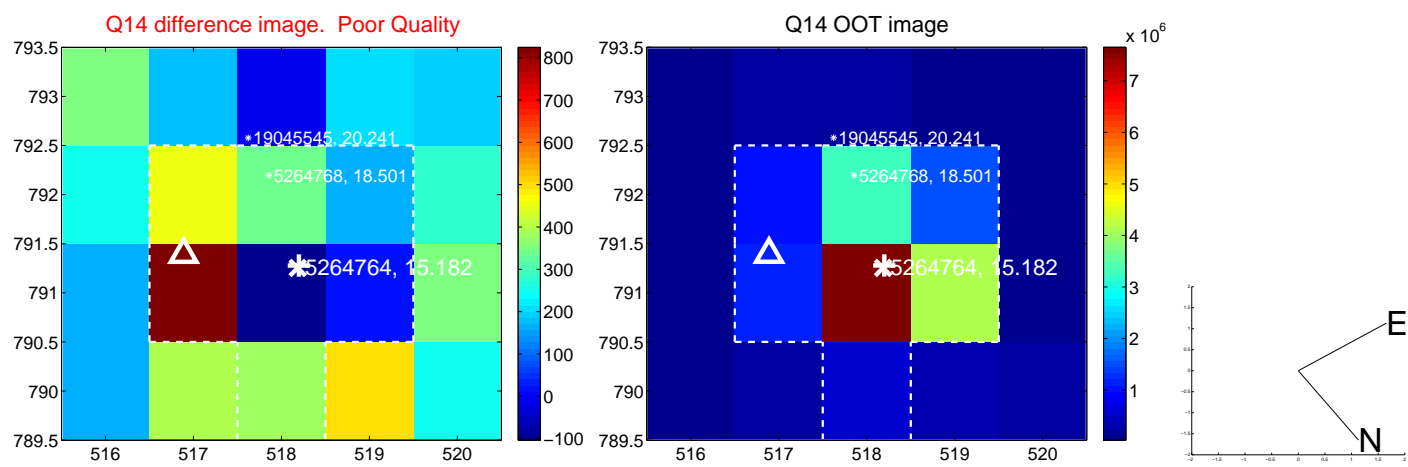
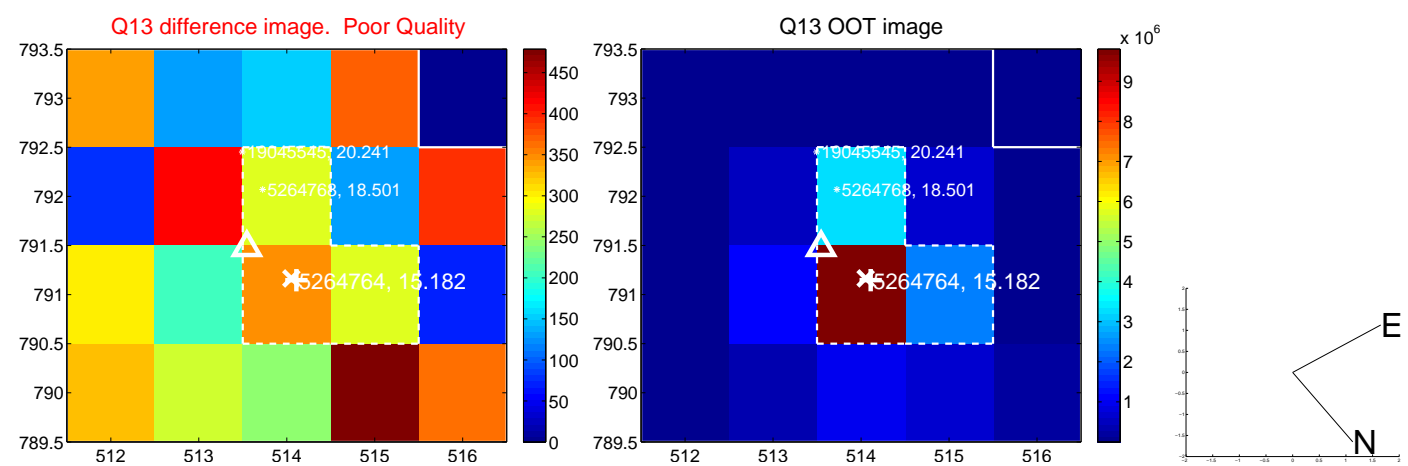
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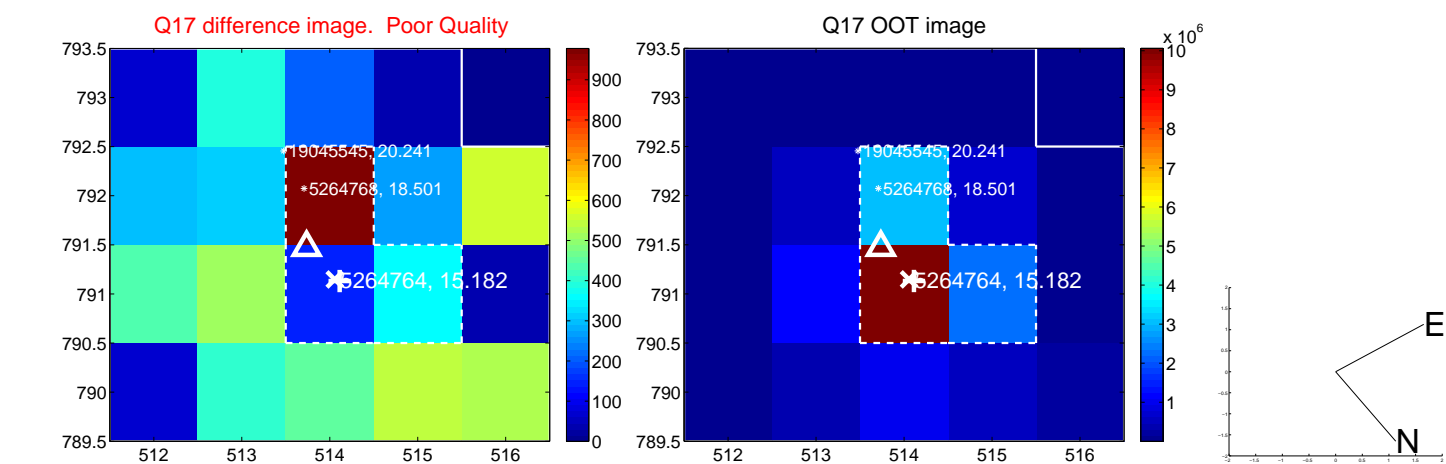
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



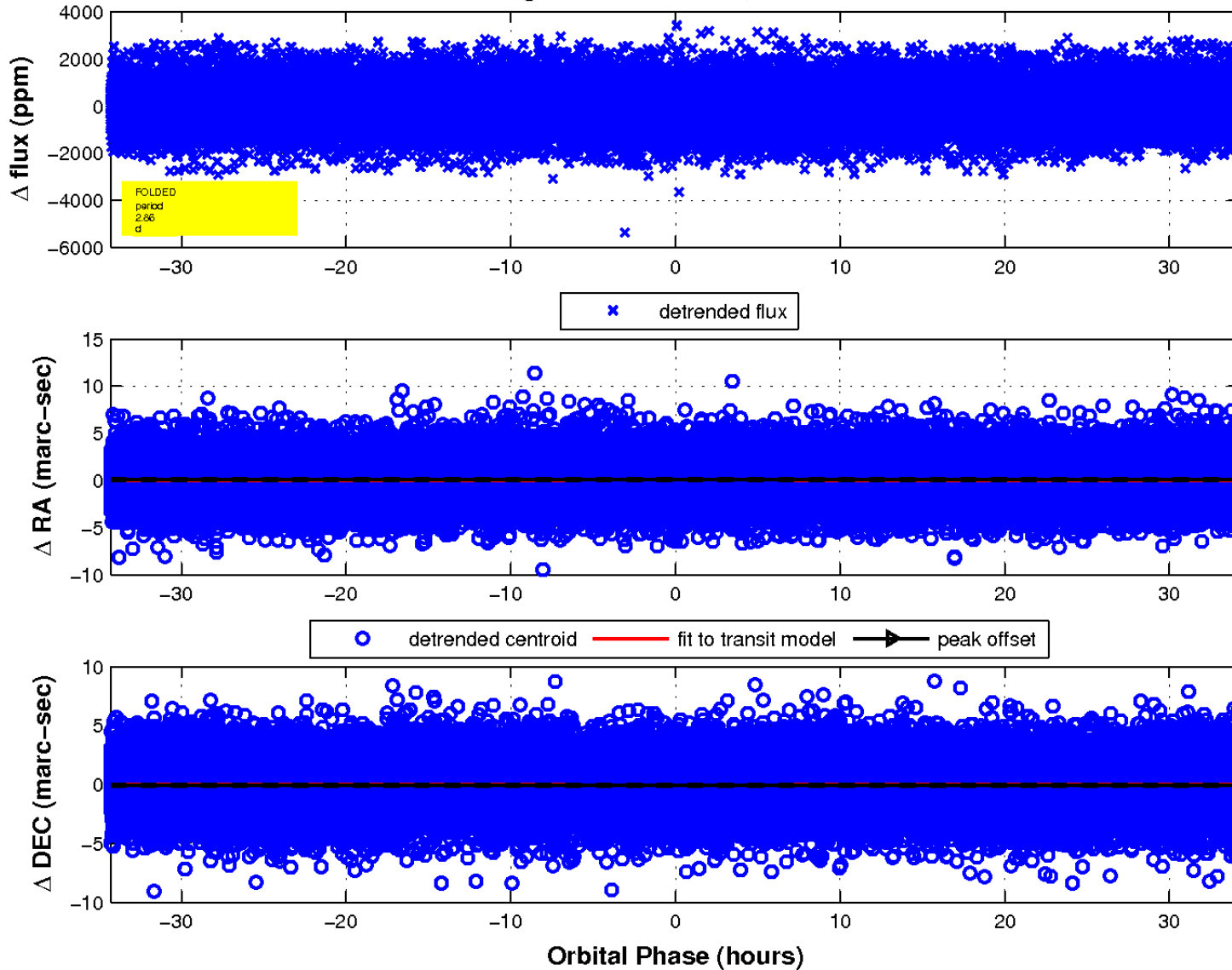
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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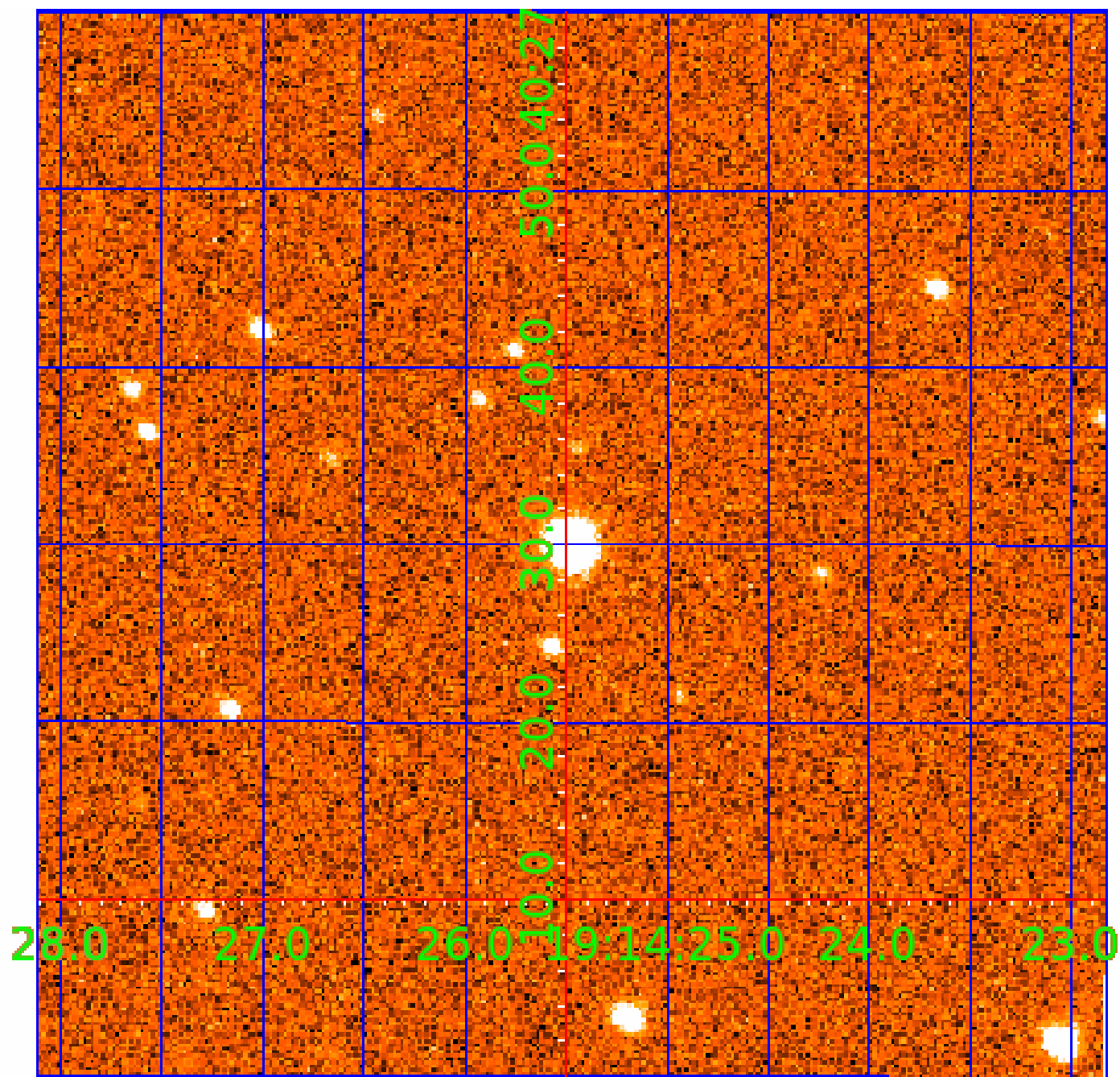


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 005264764

Q1-17 DR25 TCE Parameters

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005264764-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—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.

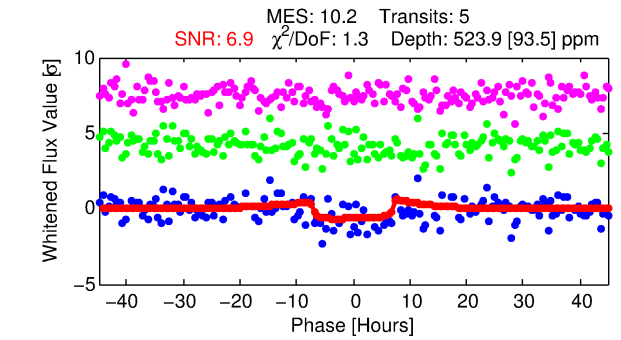
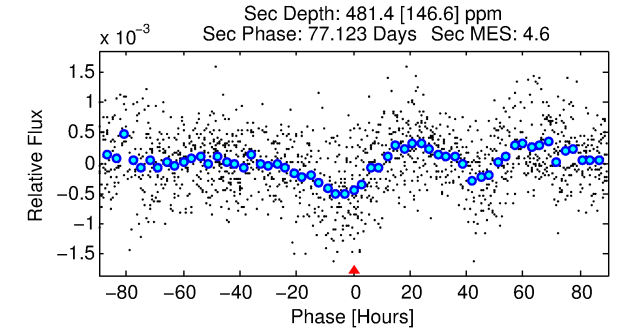
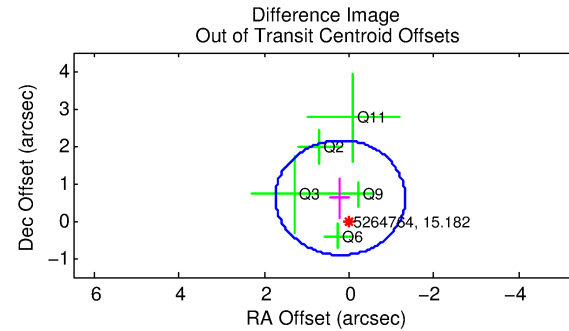
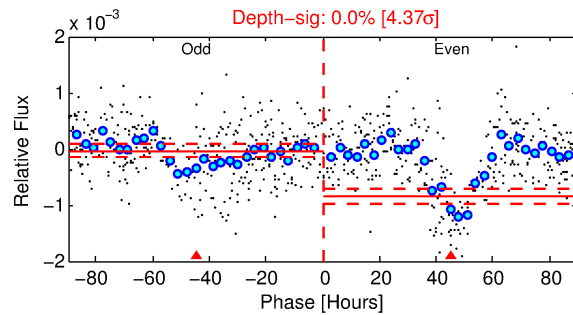
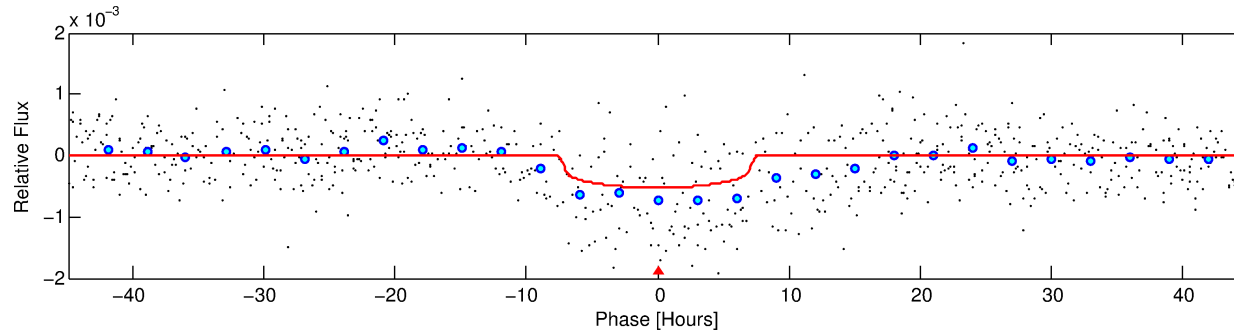
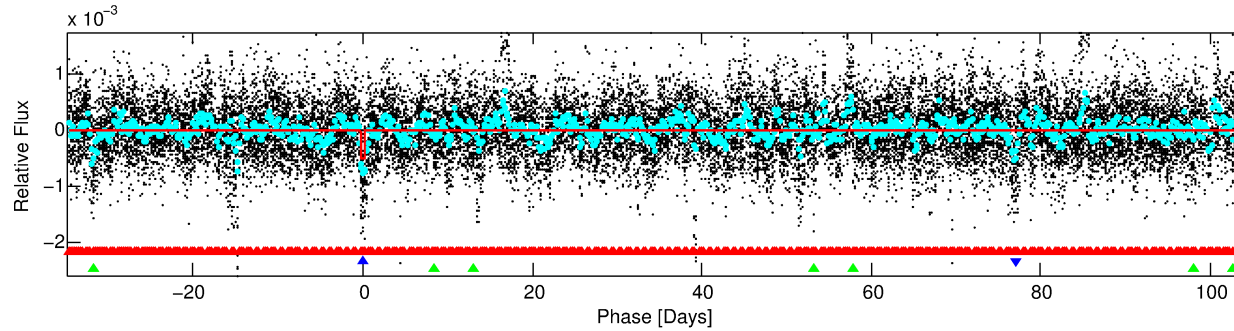
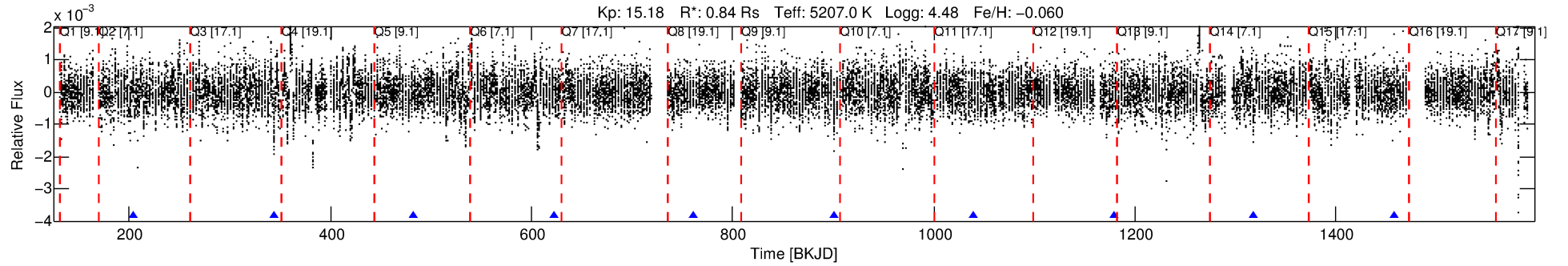
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005264764-02

No Significant Match Found

DV One-Page Summary

KIC: 5264764 Candidate: 2 of 3 Period: 139.134 d



DV Fit Results:

Period = 139.13446 [0.00532] d
Epoch = 204.8780 [0.0301] BKJD
Rp/R* = 0.0220 [0.0103]
a/R* = 55.71 [94.59]
b = 0.66 [1.49]
Seff = 2.01 [0.50]
Teq = 304 [19] K
Rp = 2.03 [0.99] Re
a = 0.4841 [0.0650] AU
Ag = 15036.84 [15080.59] [1.00 σ]
Teffp = 5196 [1282] K [3.82 σ]

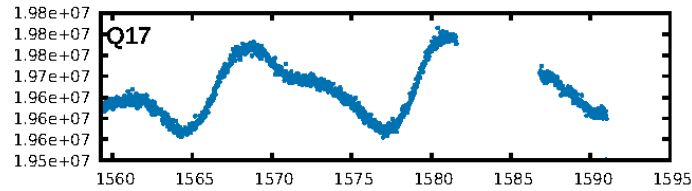
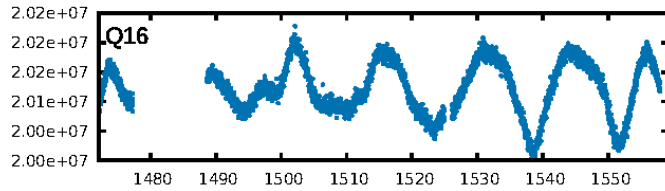
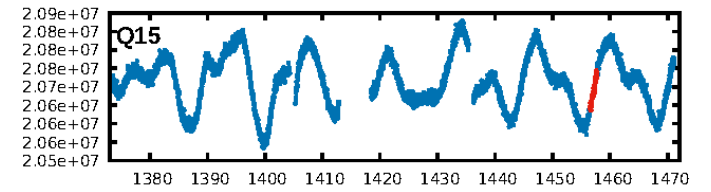
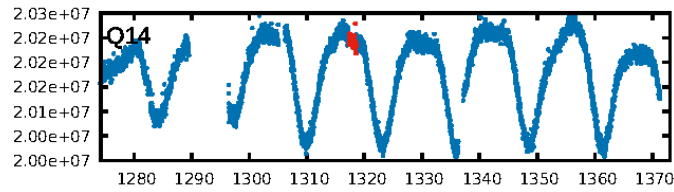
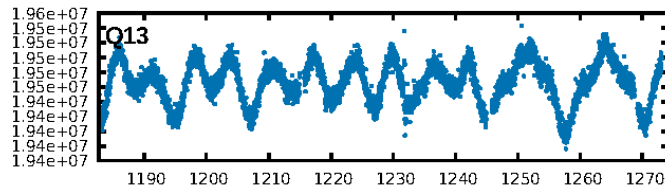
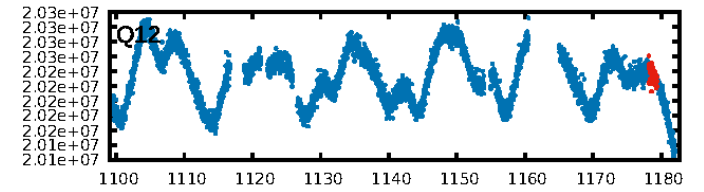
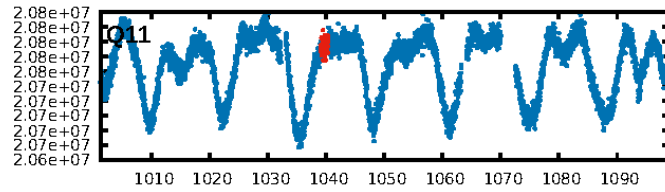
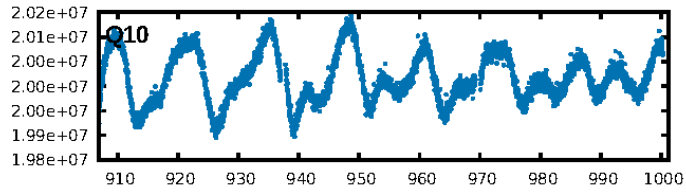
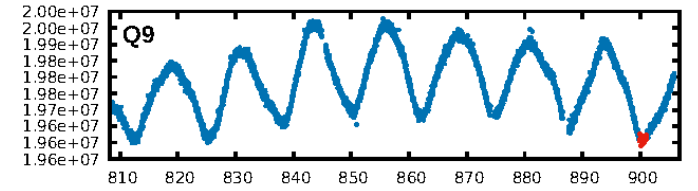
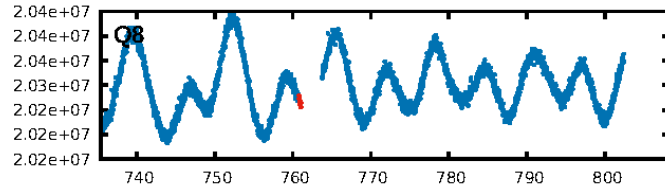
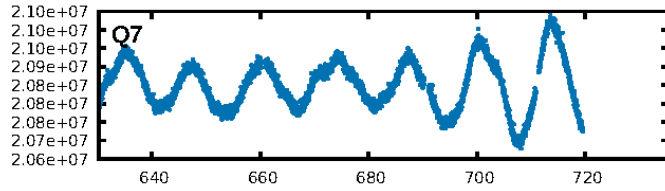
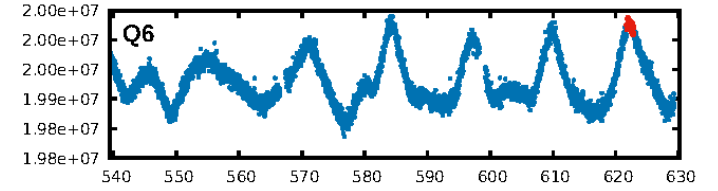
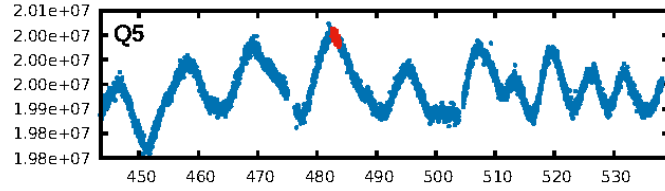
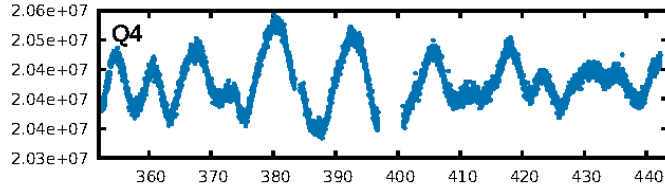
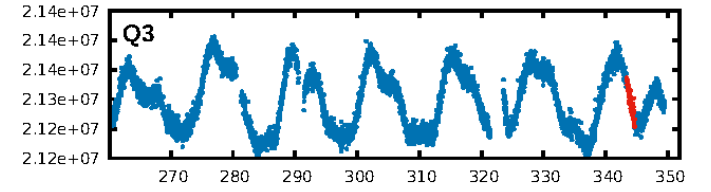
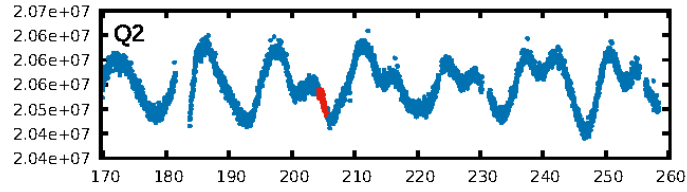
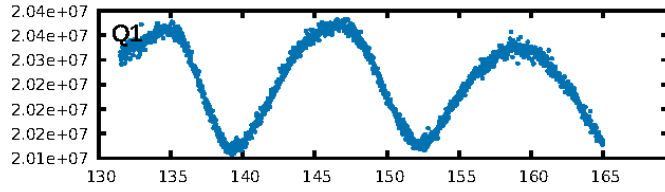
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [164.42 σ]
LongPeriod-sig: 100.0% [70.04 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 99.4%
Bootstrap-pfa: 1.56e-10
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -1.152
Centroid-sig: 77.9%
Centroid-so: 0.404 arcsec [0.53 σ]
OotOffset-rm: 0.646 arcsec [1.27 σ]
KicOffset-rm: 0.732 arcsec [1.41 σ]
OotOffset-st: 2/2/0/1 [5]
KicOffset-st: 2/2/0/1 [5]
DiffImageQuality-fgm: 0.40 [2/5]
DiffImageOverlap-fno: 0.00 [0/8]

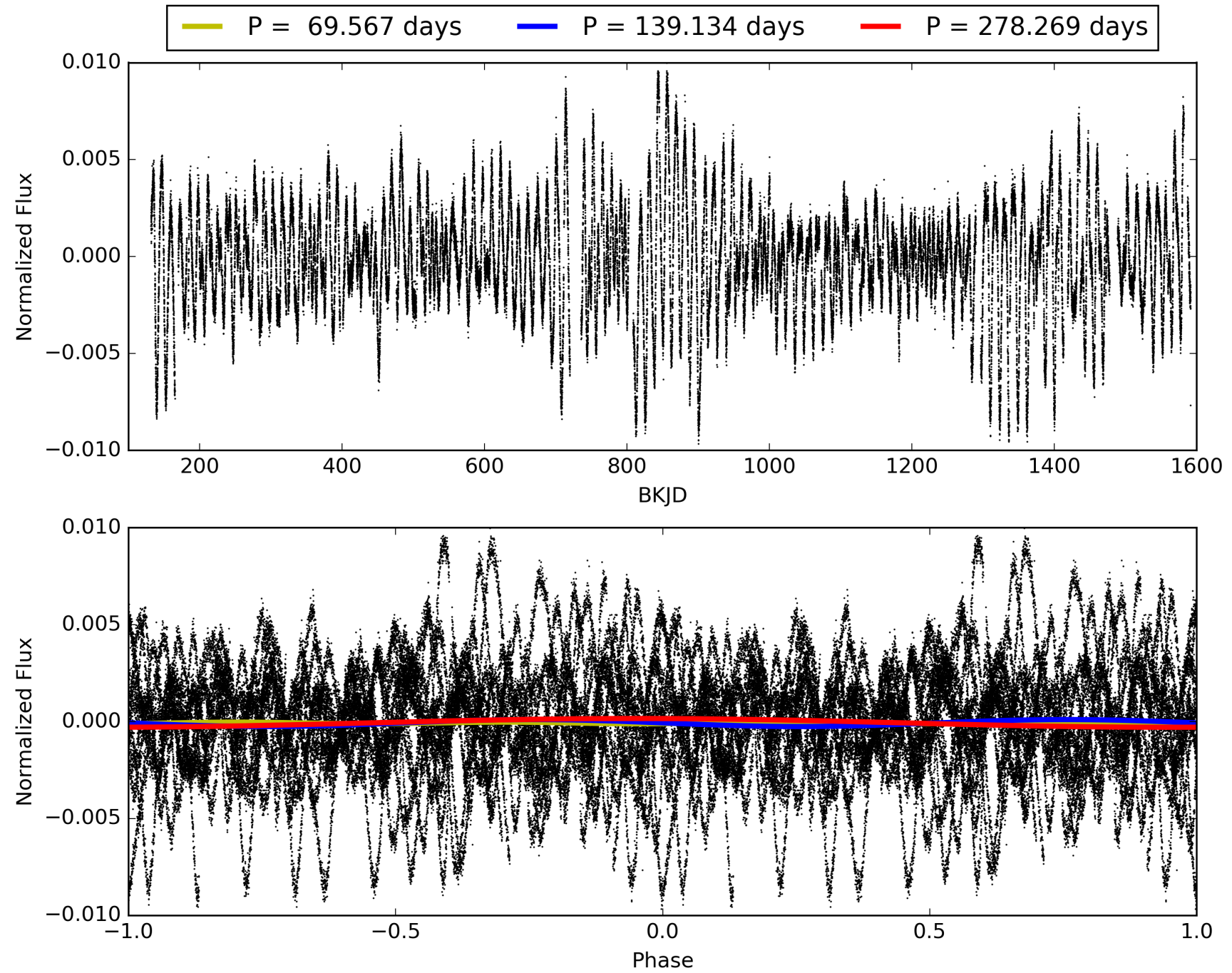
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:50:30 Z

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

TCE 005264764-02, PDC Light Curves

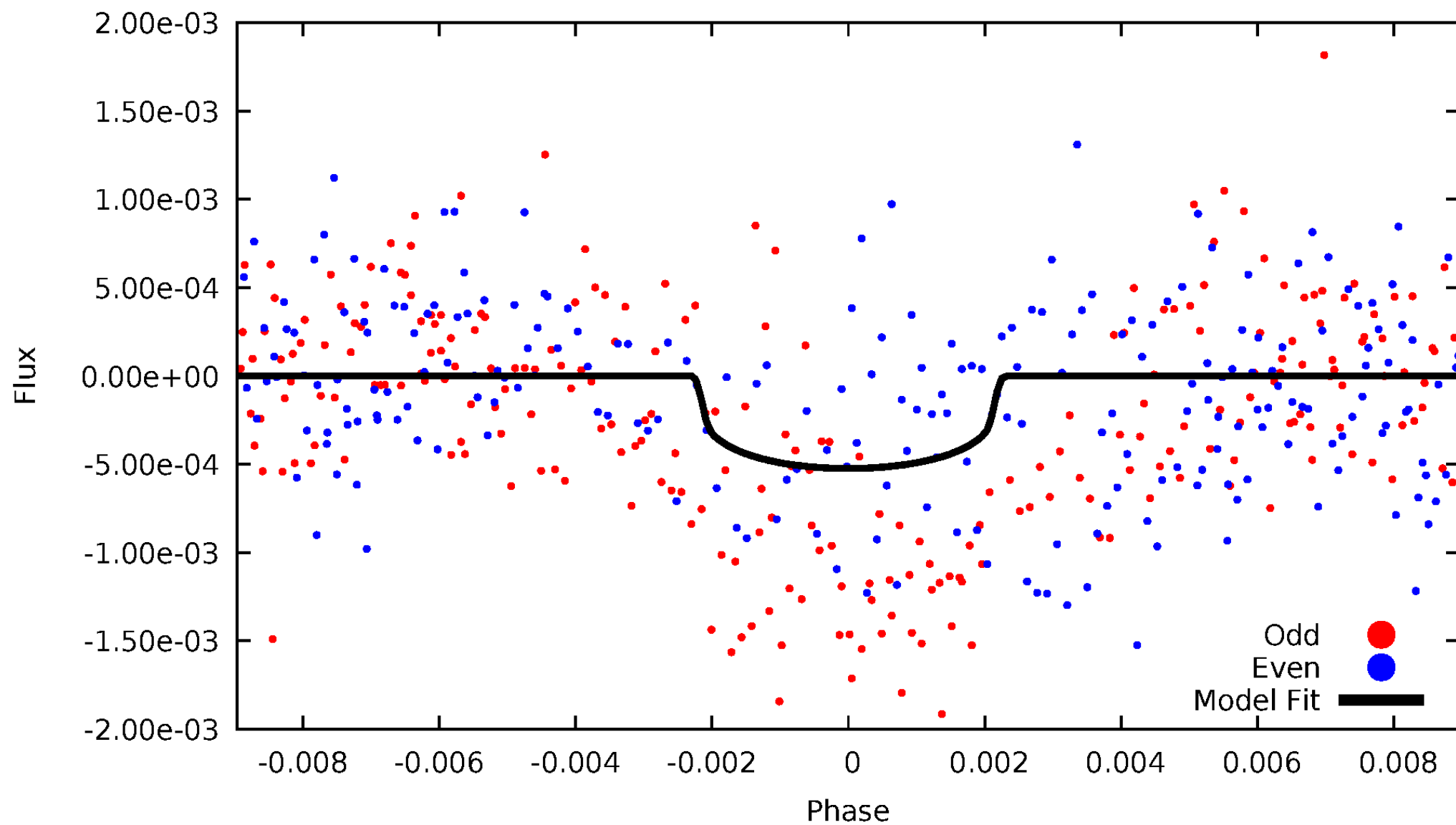


TCE 005264764-02



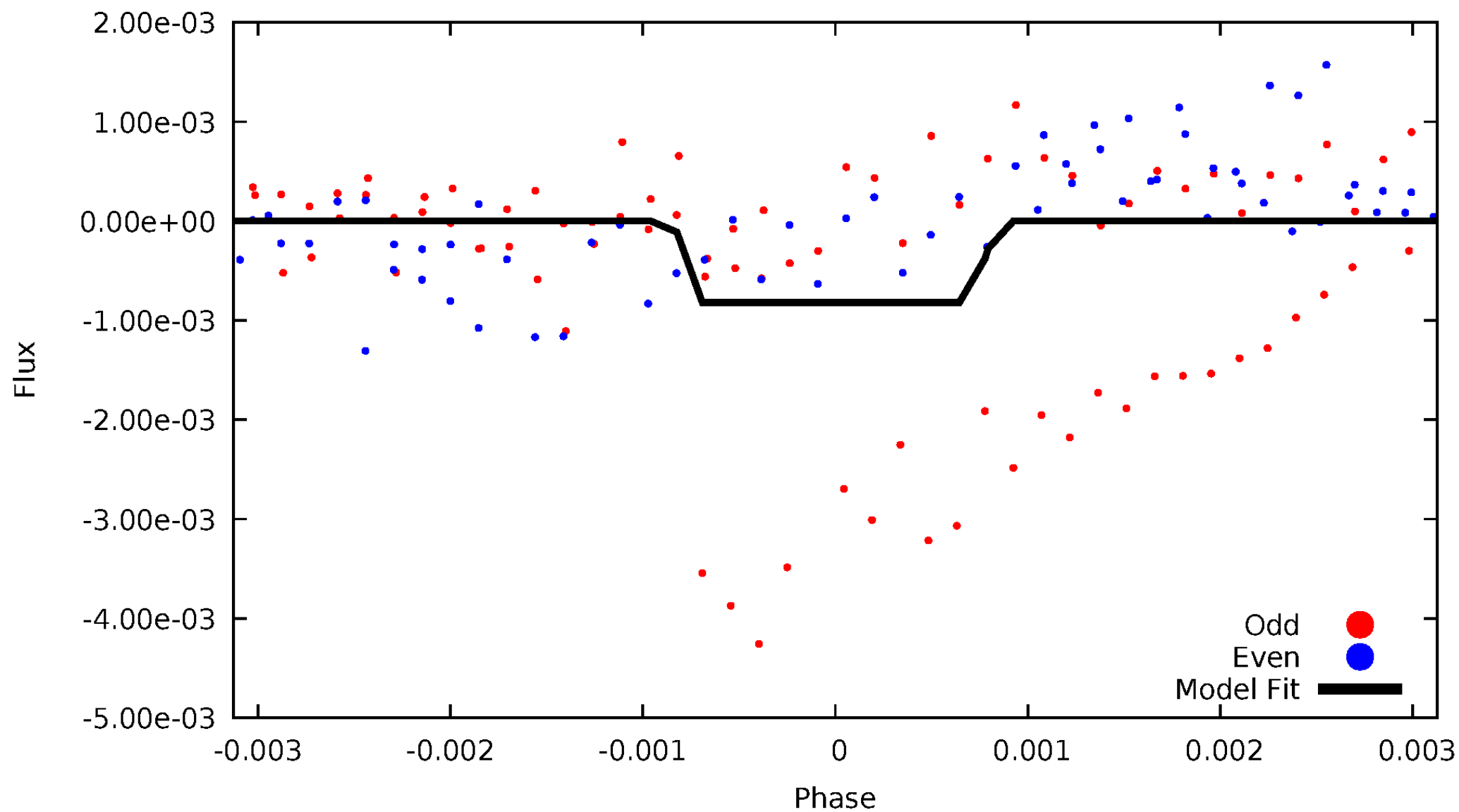
DV Odd/Even

TCE 005264764-02



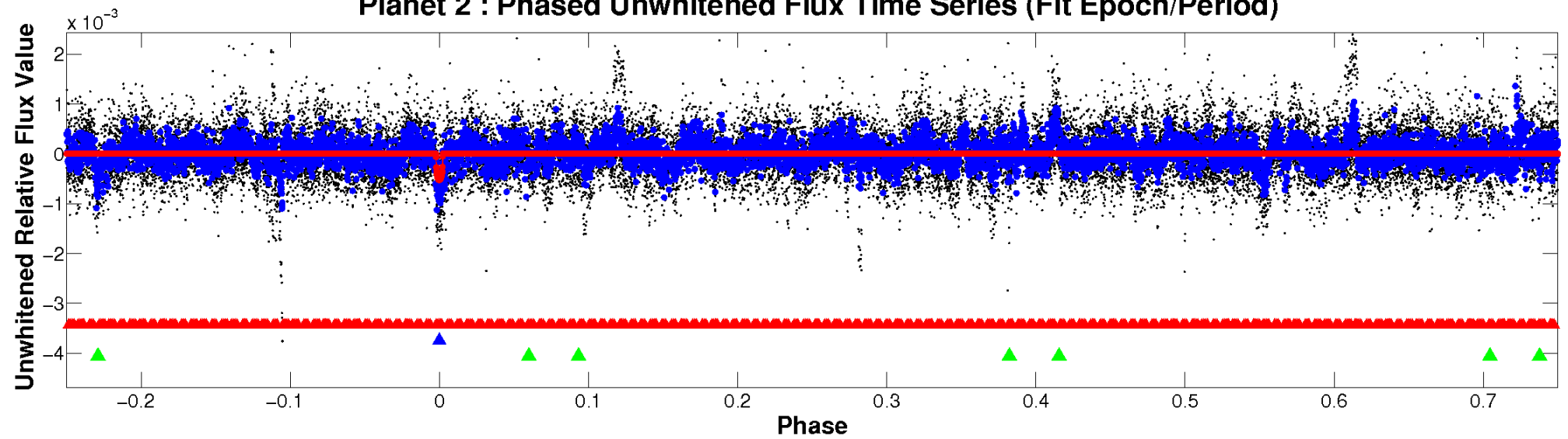
ALT Odd/Even

TCE 005264764-02

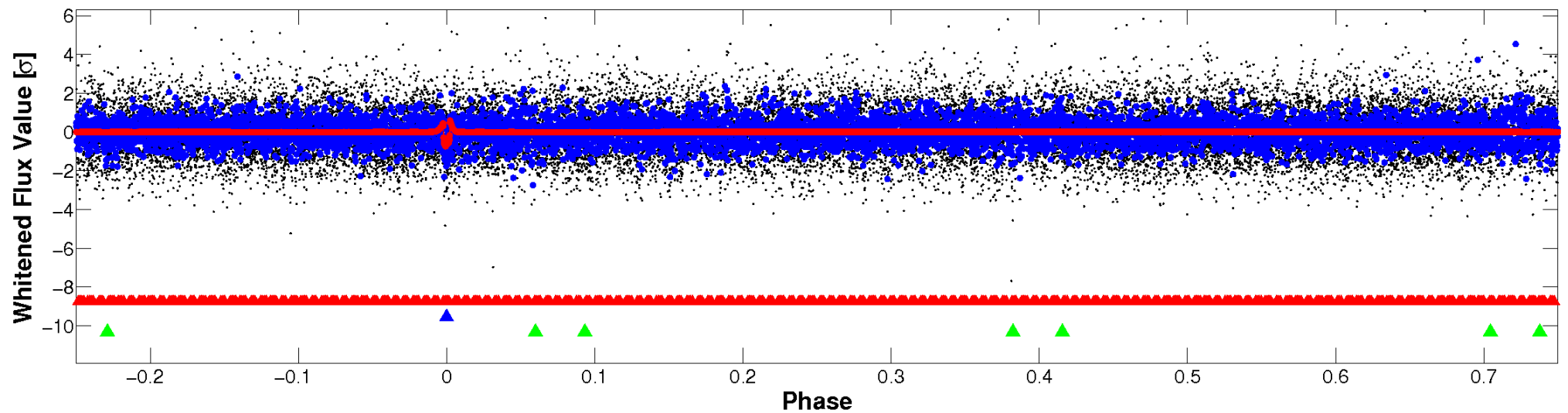


Non-Whitened Vs. Whitened Light Curve

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

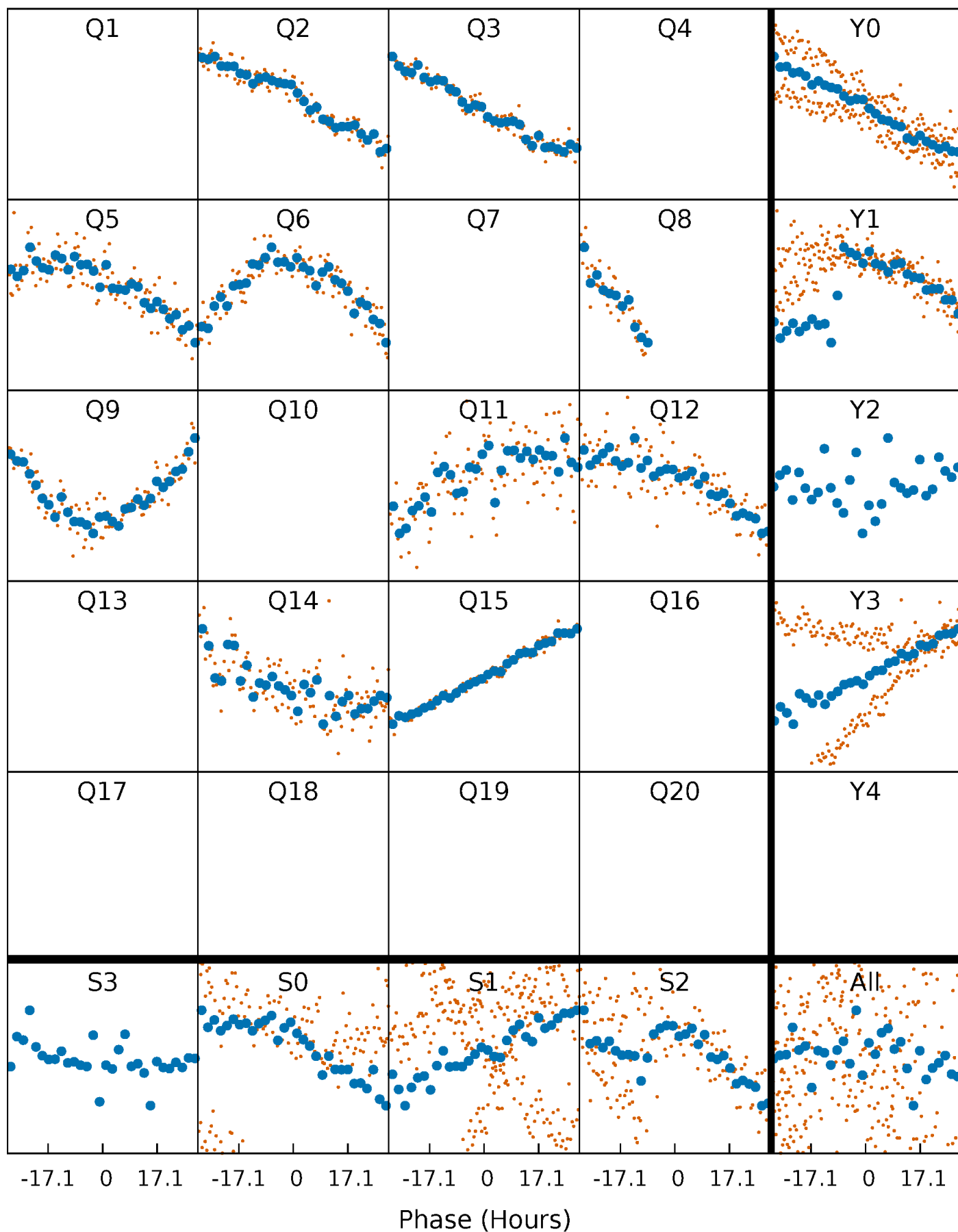


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



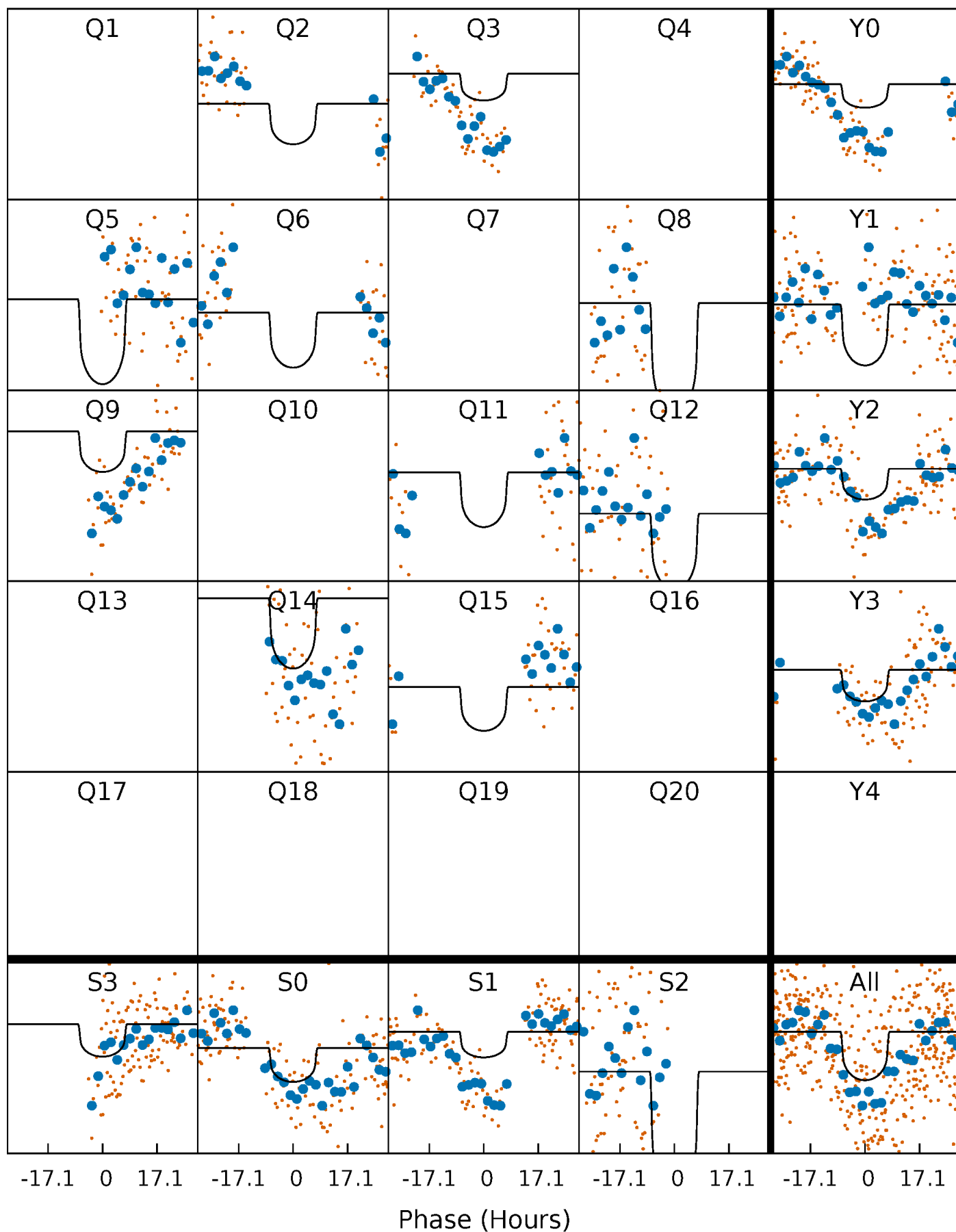
PDC Quarter-Phased Transit Curves

TCE 005264764-02 $P=139.134462$ Days $T_0=204.877997$ (BKJD)



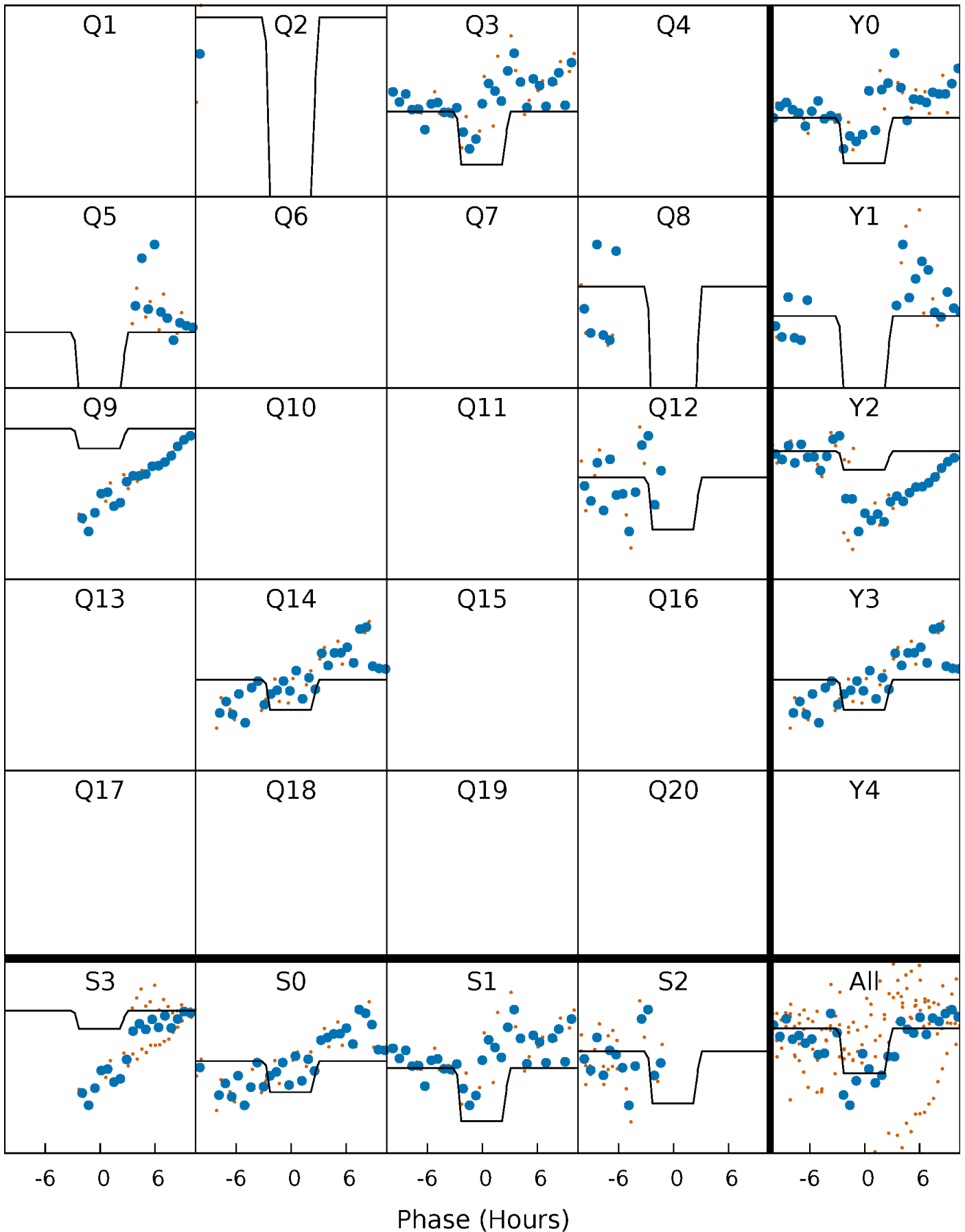
DV Quarter-Phased Transit Curves

TCE 005264764-02 P=139.134462 Days $T_0=204.877997$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

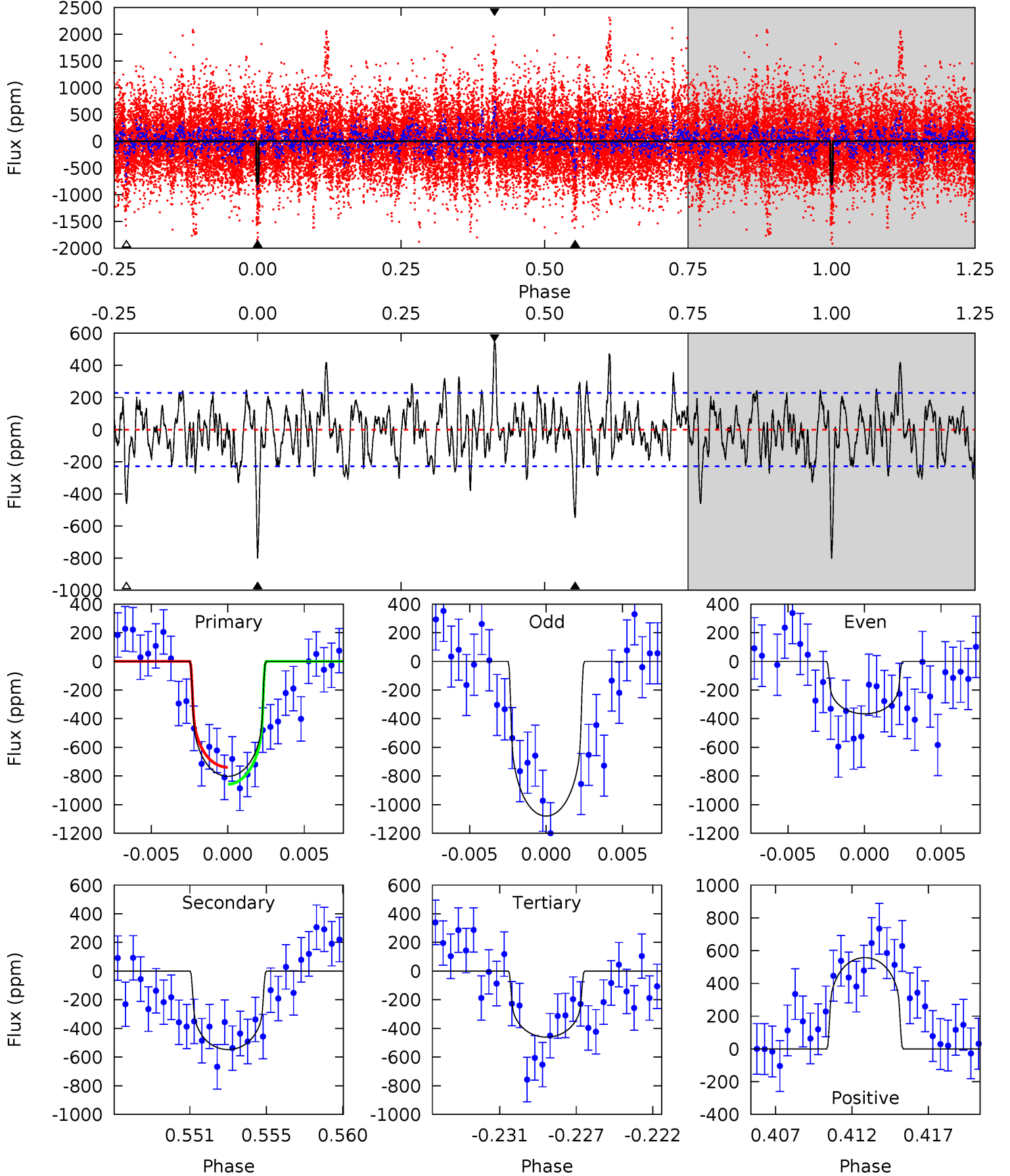
TCE 005264764-02 P=139.159355 Days $T_0=204.668074$ (BKJD)



DV Model-Shift Uniqueness Test

005264764-02, P = 139.134462 Days, E = 65.743535 Days

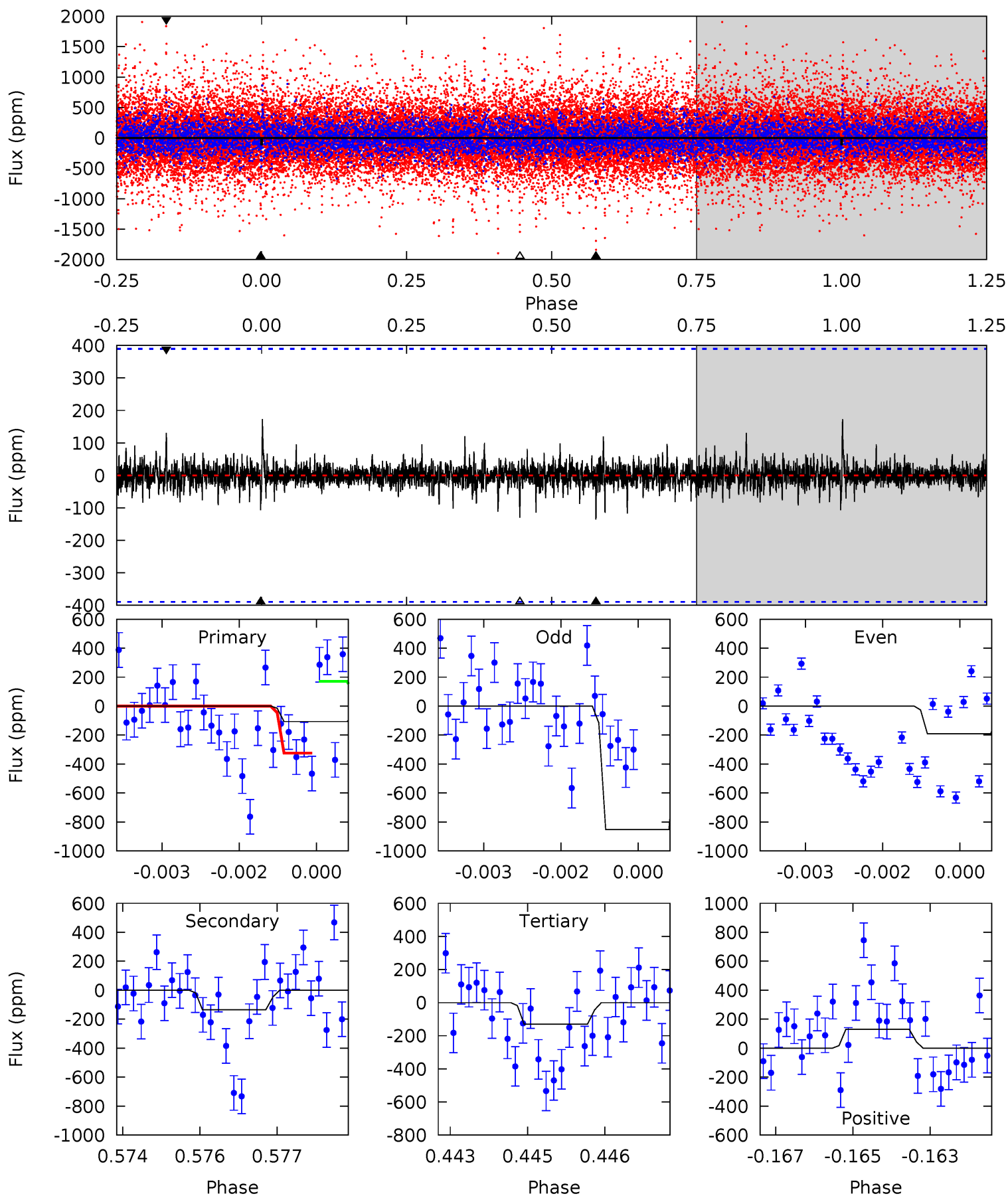
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.2	12.4	10.4	12.6	5.17	2.83	3.07	7.73	5.55	1.96	-0.22	7.96	0.91	0.41	1.33



Alt Model-Shift Uniqueness Test

005264764-02, P = 139.159355 Days, E = 65.508719 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.47	1.87	1.79	1.81	5.37	3.15	0.35	-0.32	-0.33	0.07	0.06	4.70	4.67	0.56	1.06



Stellar Parameters For KIC 005264764

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5207^{+158}_{-158}	$4.477^{+0.104}_{-0.127}$	$-0.060^{+0.300}_{-0.300}$	$0.845^{+0.117}_{-0.105}$	$0.783^{+0.103}_{-0.060}$	$1.825^{+0.803}_{-0.601}$
	+3%/-3%	+2%/-3%	+500%/-500%	+14%/-12%	+13%/-8%	+44%/-33%
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 005264764-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-548 ± 44	$2.10^{+1.00}_{-0.92}$	426^{+22}_{-20}	5298^{+1824}_{-785}	16150^{+35248}_{-8540}
Alt.	-135 ± 73	$2.66^{+0.98}_{-0.99}$	426^{+22}_{-20}	3684^{+725}_{-487}	2461^{+4019}_{-1517}

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

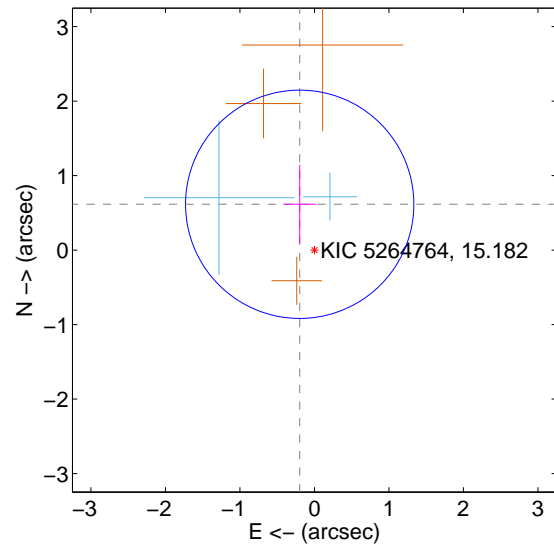
Supplemental centroid analysis for 005264764-02. Kepler magnitude: 15.18. Transit SNR 6.85

There are 2 quarters with good PRF difference image offsets

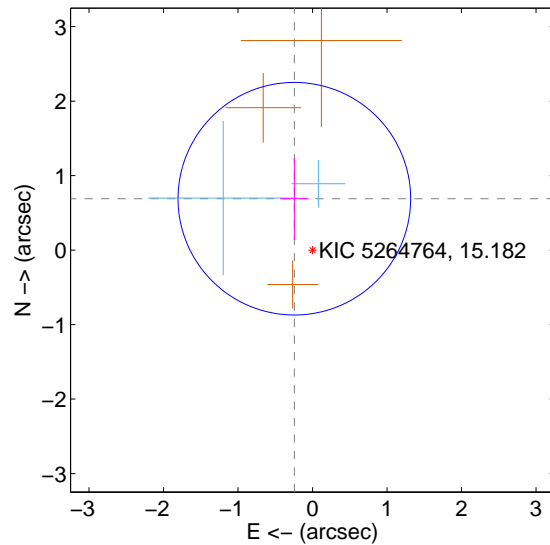
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.646 ± 0.511	1.27	0.198 ± 0.221	0.615 ± 0.532
PRF-fit source offset from KIC position	0.732 ± 0.520	1.41	0.244 ± 0.192	0.690 ± 0.548
photometric centroid source offset	0.40 ± 0.77	0.53	-0.04 ± 0.84	0.40 ± 0.77

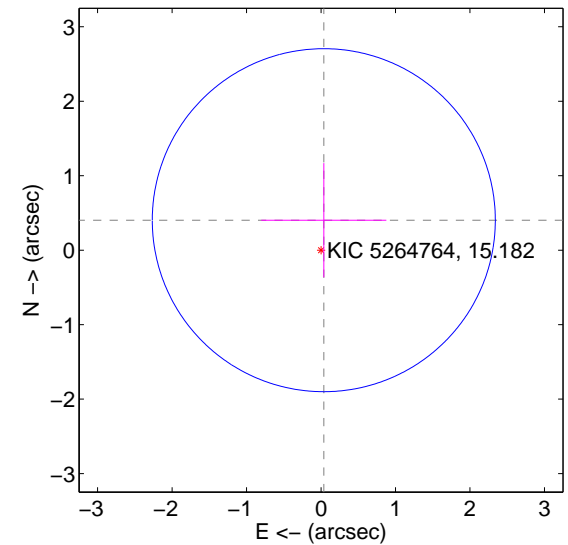
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

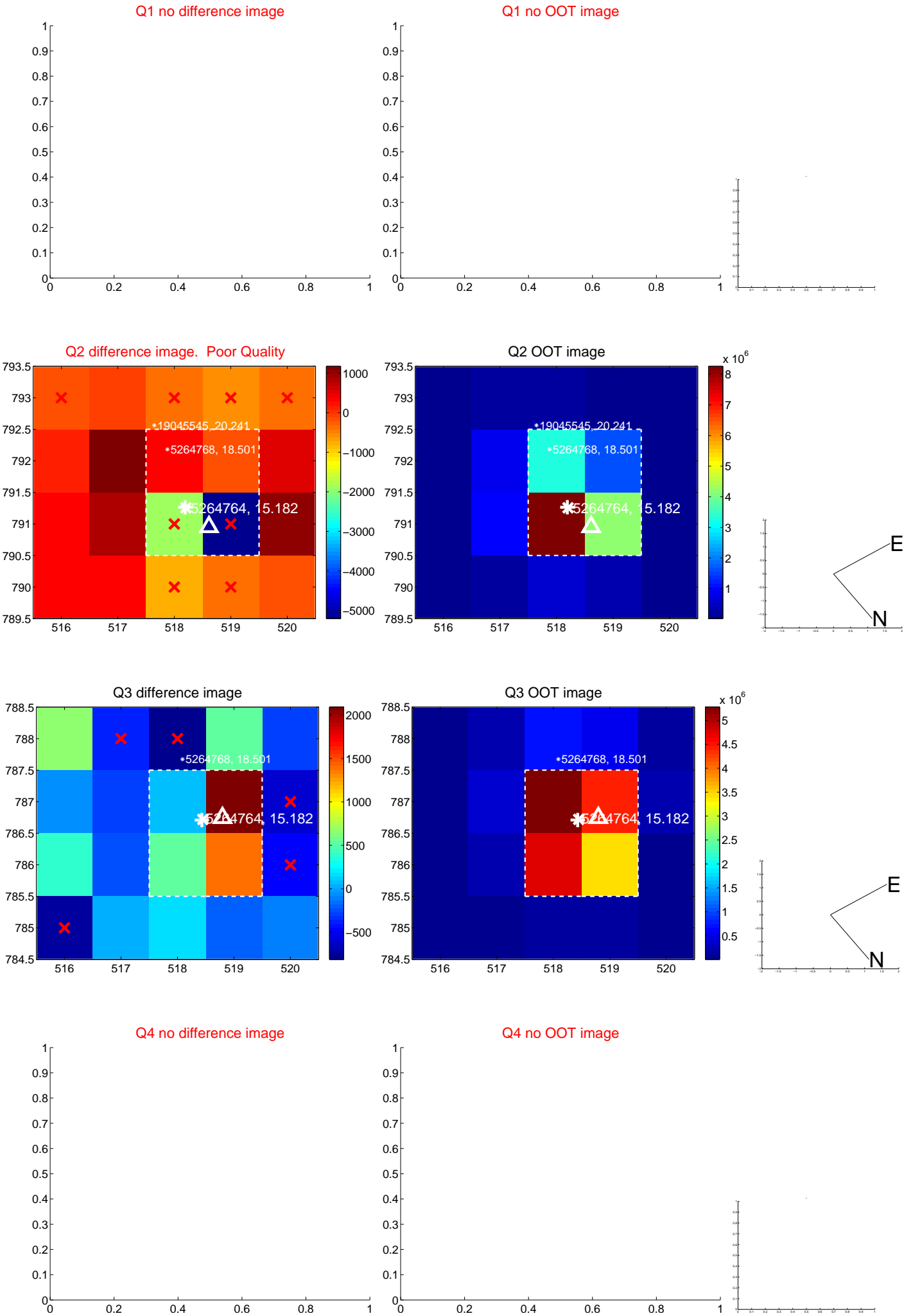


offset from photometric centroids

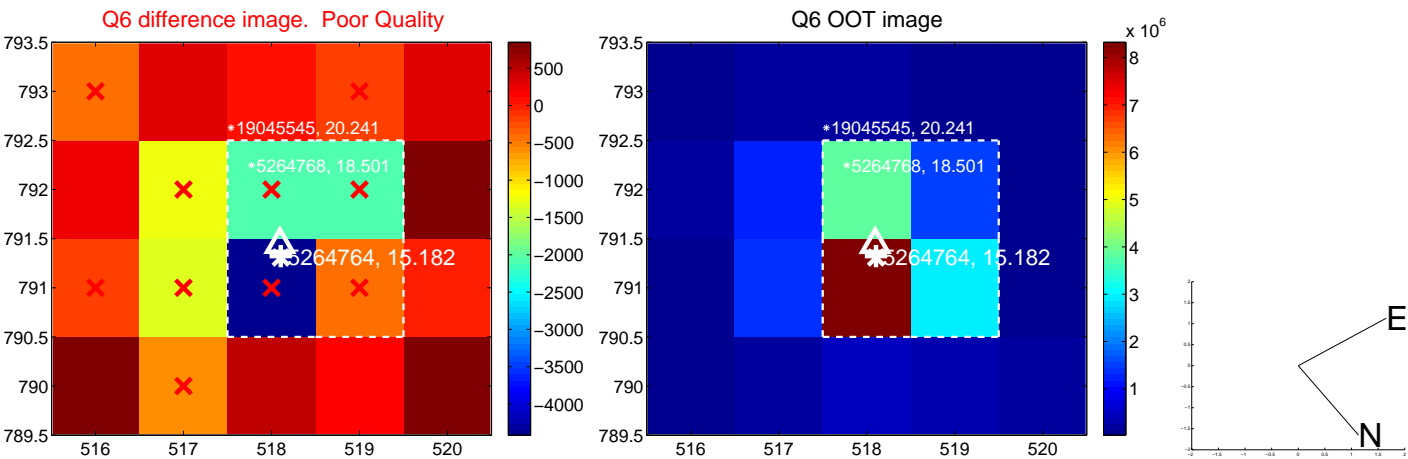
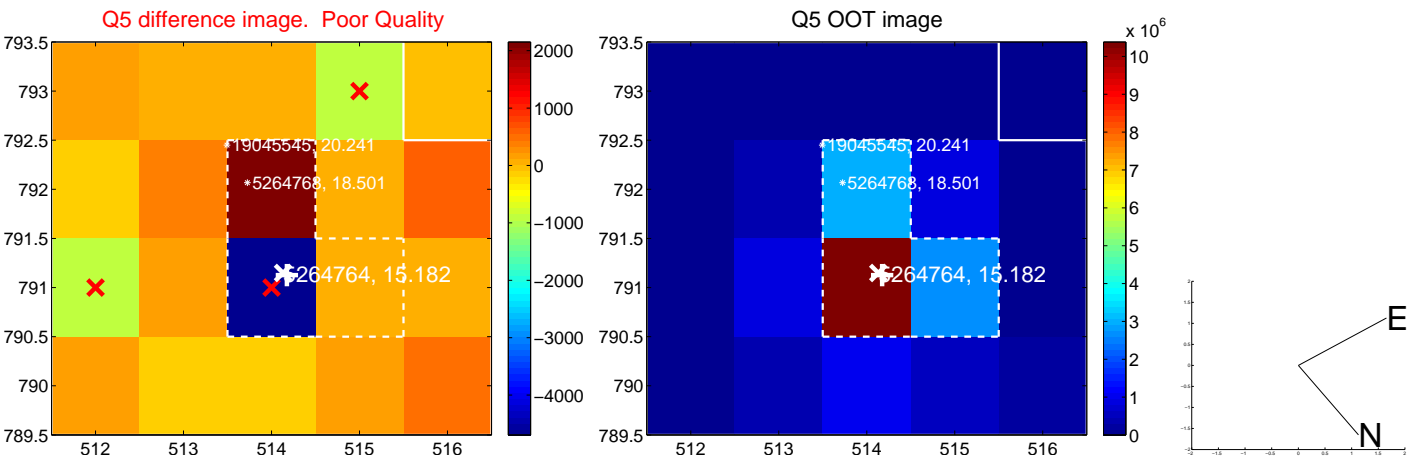


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

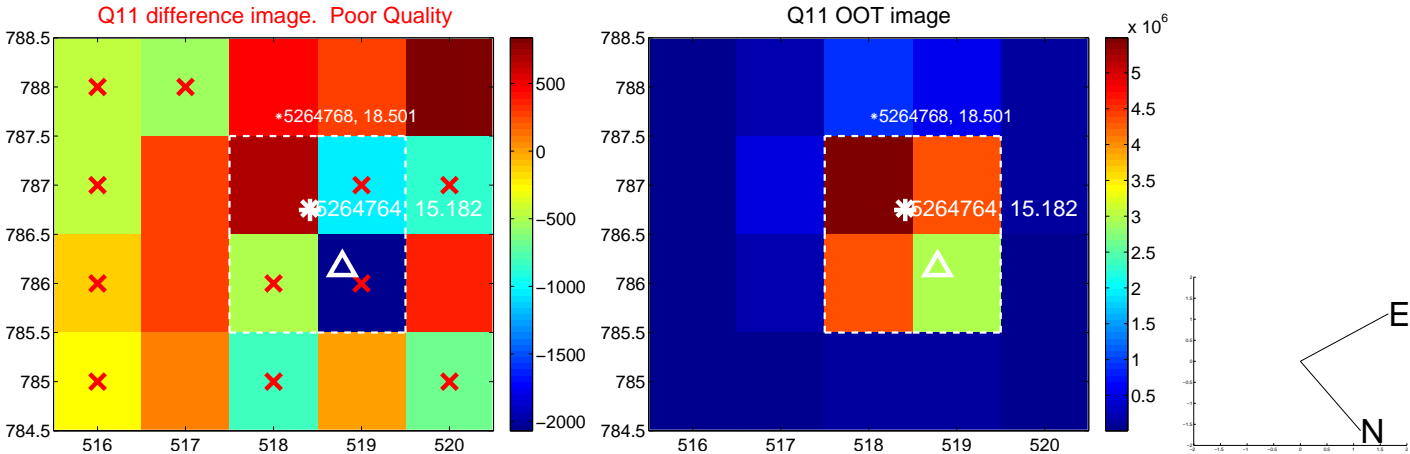
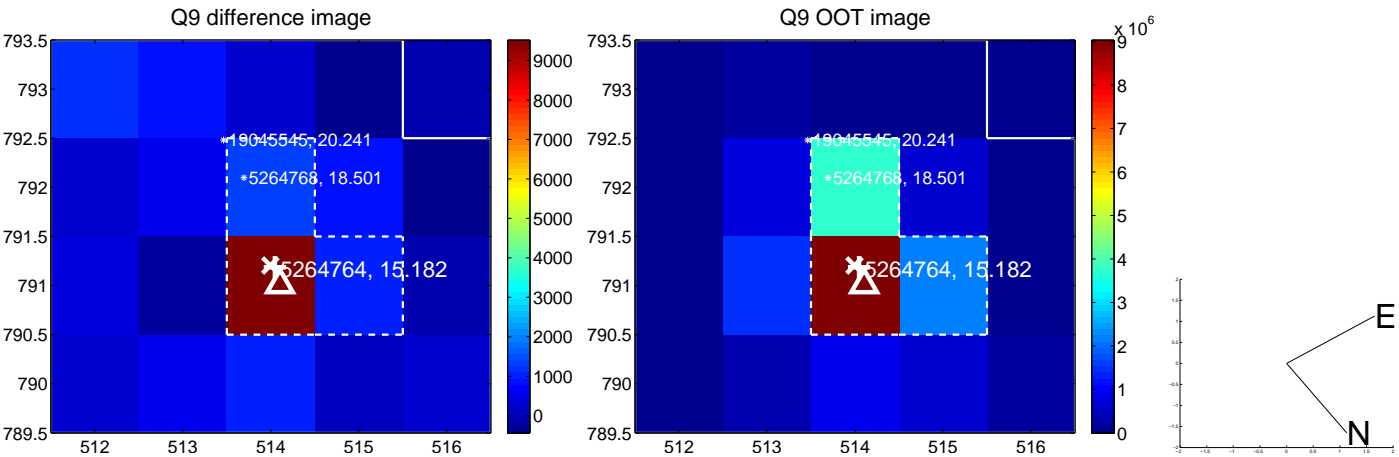
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



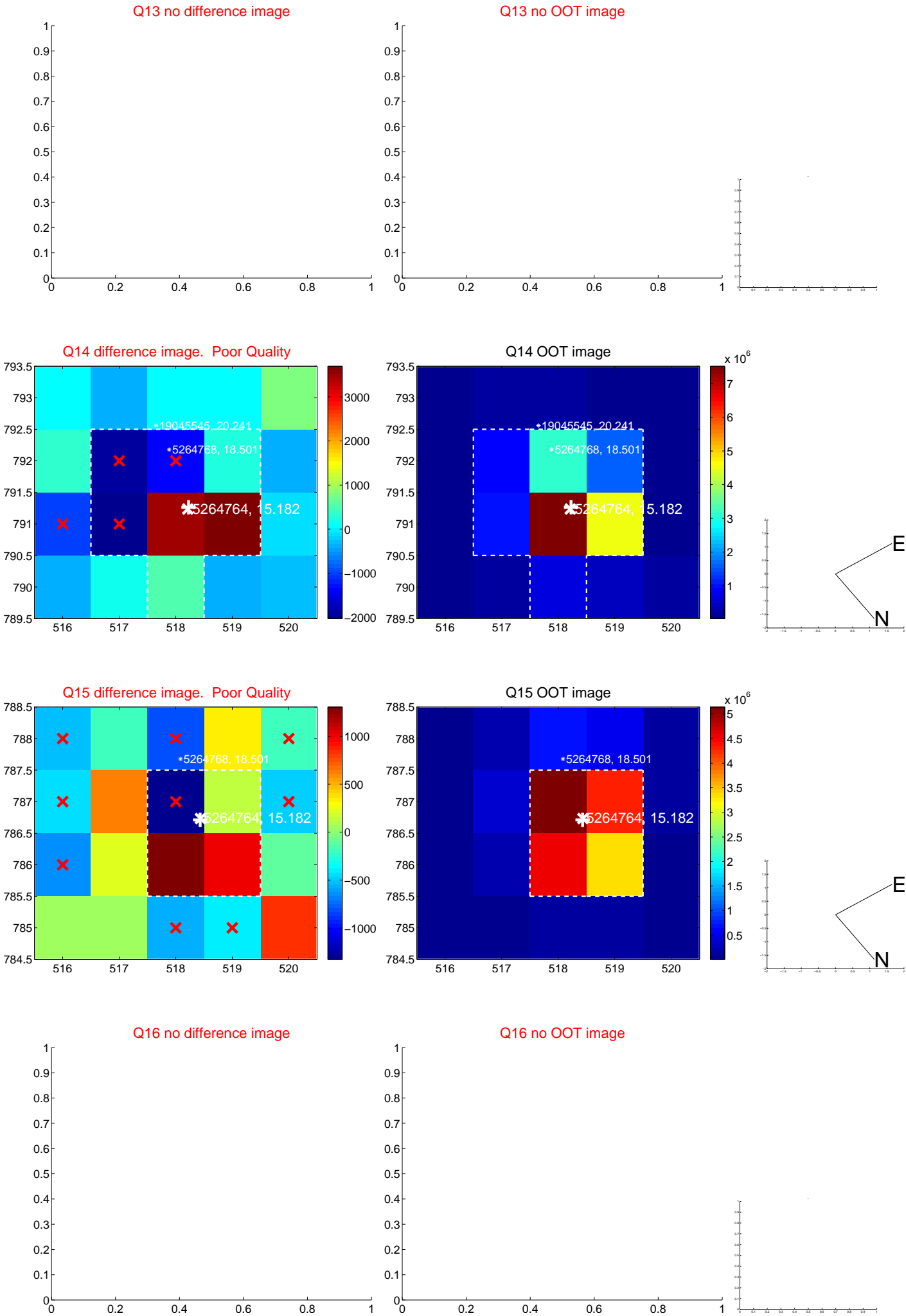
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



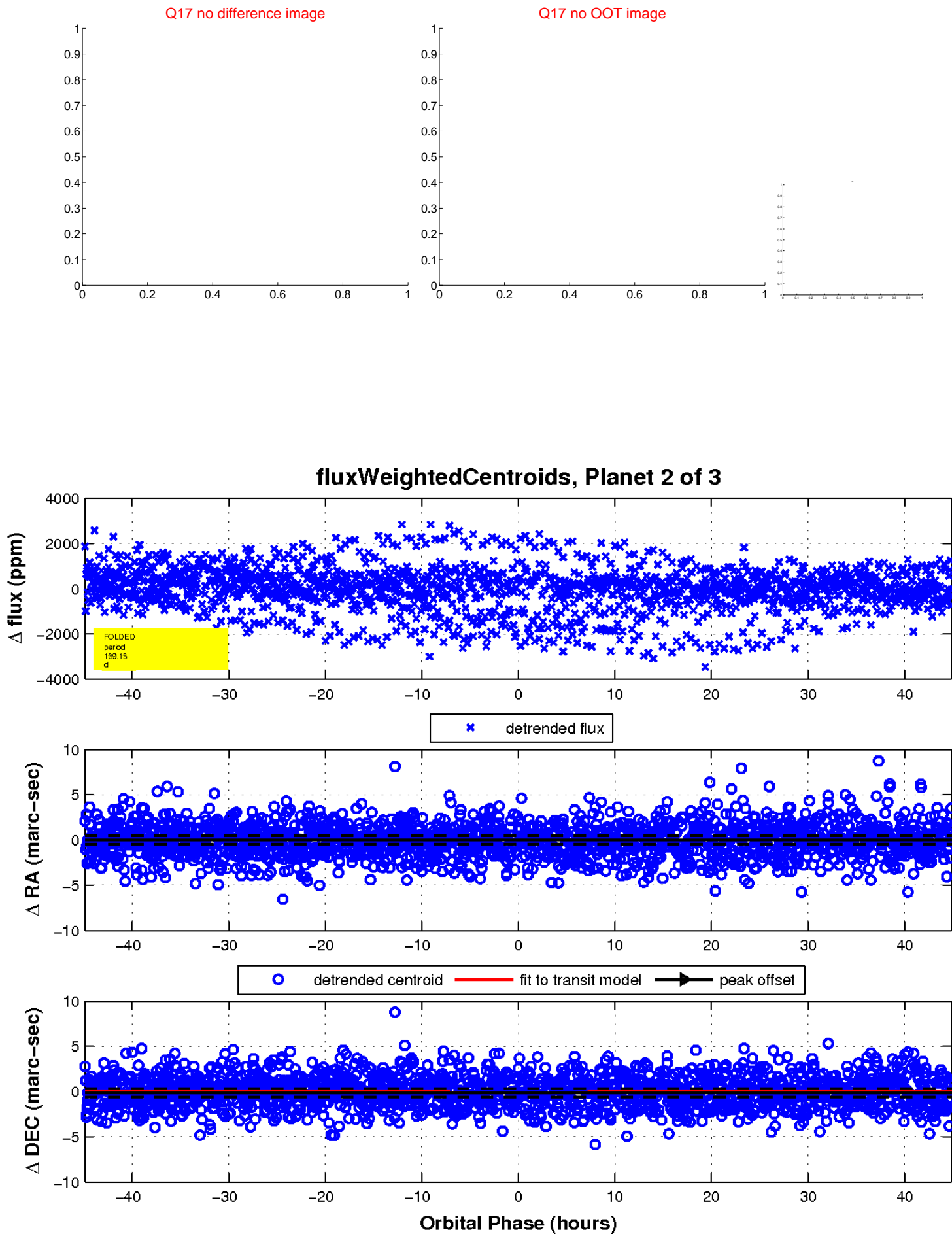
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

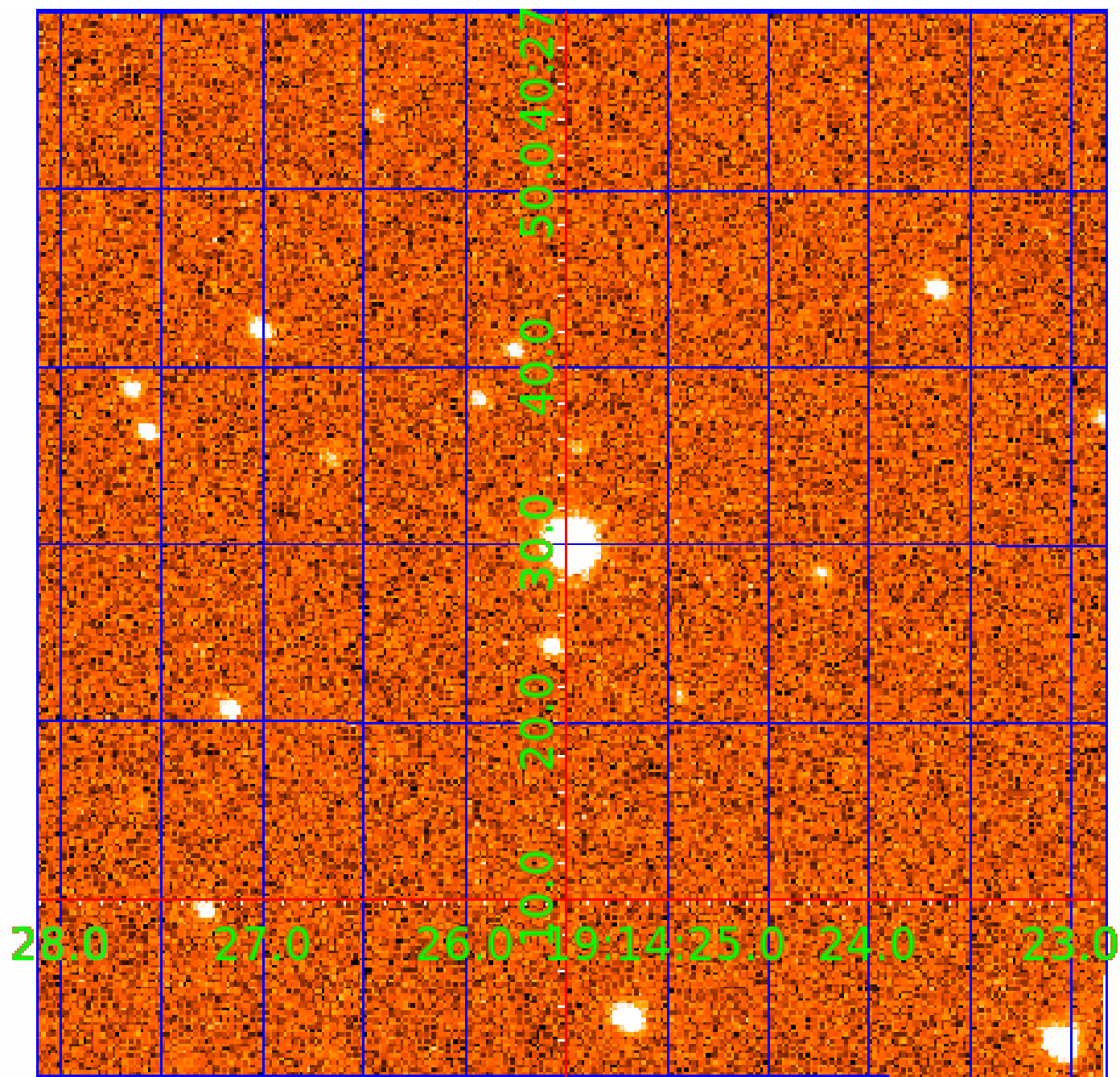


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005264764

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})
005264764-01	OBS	No	2.857759	133.651364	83.4	13.109	10.2	11.4	0.84	5207	0.76	356.82
005264764-02	OBS	No	139.134462	204.877997	523.9	14.961	10.2	6.9	0.84	5207	2.03	2.01
005264764-03	OBS	No	183.968472	312.161788	705.4	3.496	8.0	6.2	0.84	5207	2.31	1.38

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005264764-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
005264764-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005264764-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—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.

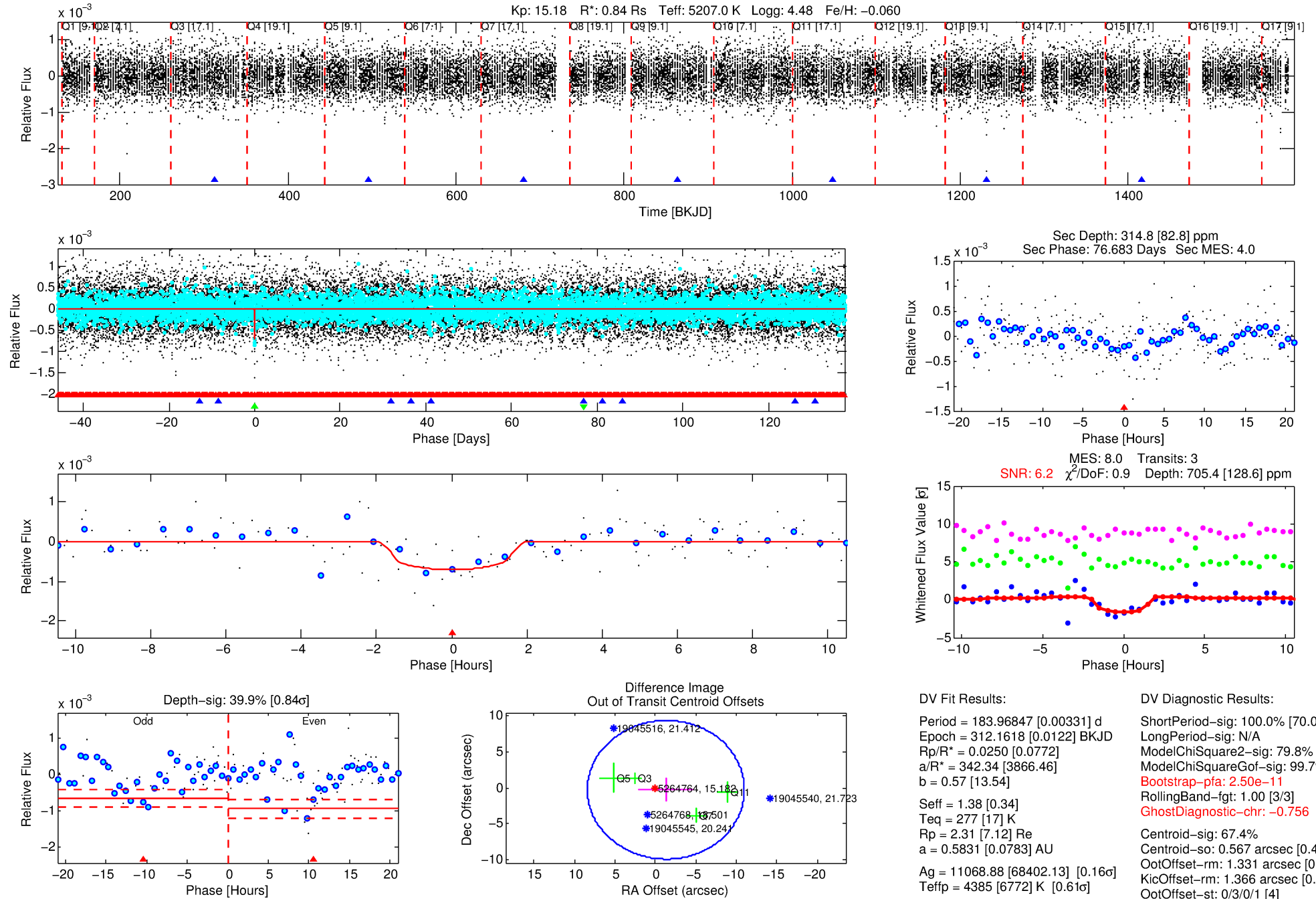
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005264764-03

No Significant Match Found

DV One-Page Summary

KIC: 5264764 Candidate: 3 of 3 Period: 183.968 d



DV Fit Results:

Period = 183.96847 [0.00331] d
Epoch = 312.1618 [0.0122] BKJD
Rp/R* = 0.0250 [0.0772]
a/R* = 342.34 [3866.46]
b = 0.57 [13.54]
Seff = 1.38 [0.34]
Teff = 277 [17] K
Rp = 2.31 [7.12] Re
a = 0.5831 [0.0783] AU
Ag = 11068.88 [68402.13] [0.16 σ]
Teffp = 4385 [6772] K [0.61 σ]

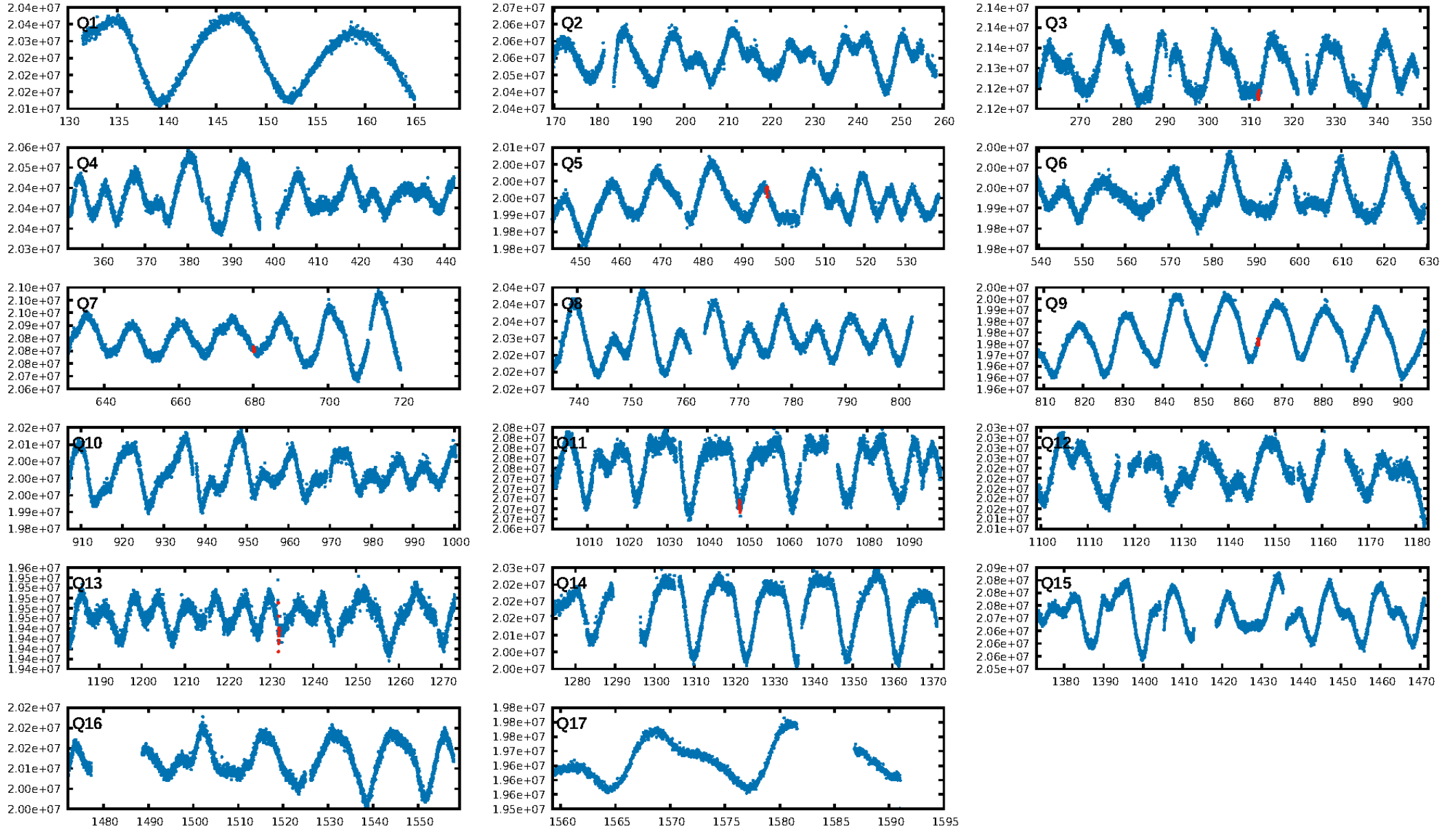
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [70.04 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 79.8%
ModelChiSquareGof-sig: 99.7%
Bootstrap-pfa: 2.50e-11
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.756
Centroid-sig: 67.4%
Centroid-so: 0.567 arcsec [0.44 σ]
OotOffset-rm: 1.331 arcsec [0.41 σ]
KicOffset-rm: 1.366 arcsec [0.42 σ]
OotOffset-st: 0/3/0/1 [4]
KicOffset-st: 0/3/0/1 [4]
DiffImageQuality-fgm: 0.25 [1/4]
DiffImageOverlap-fno: 0.40 [2/5]

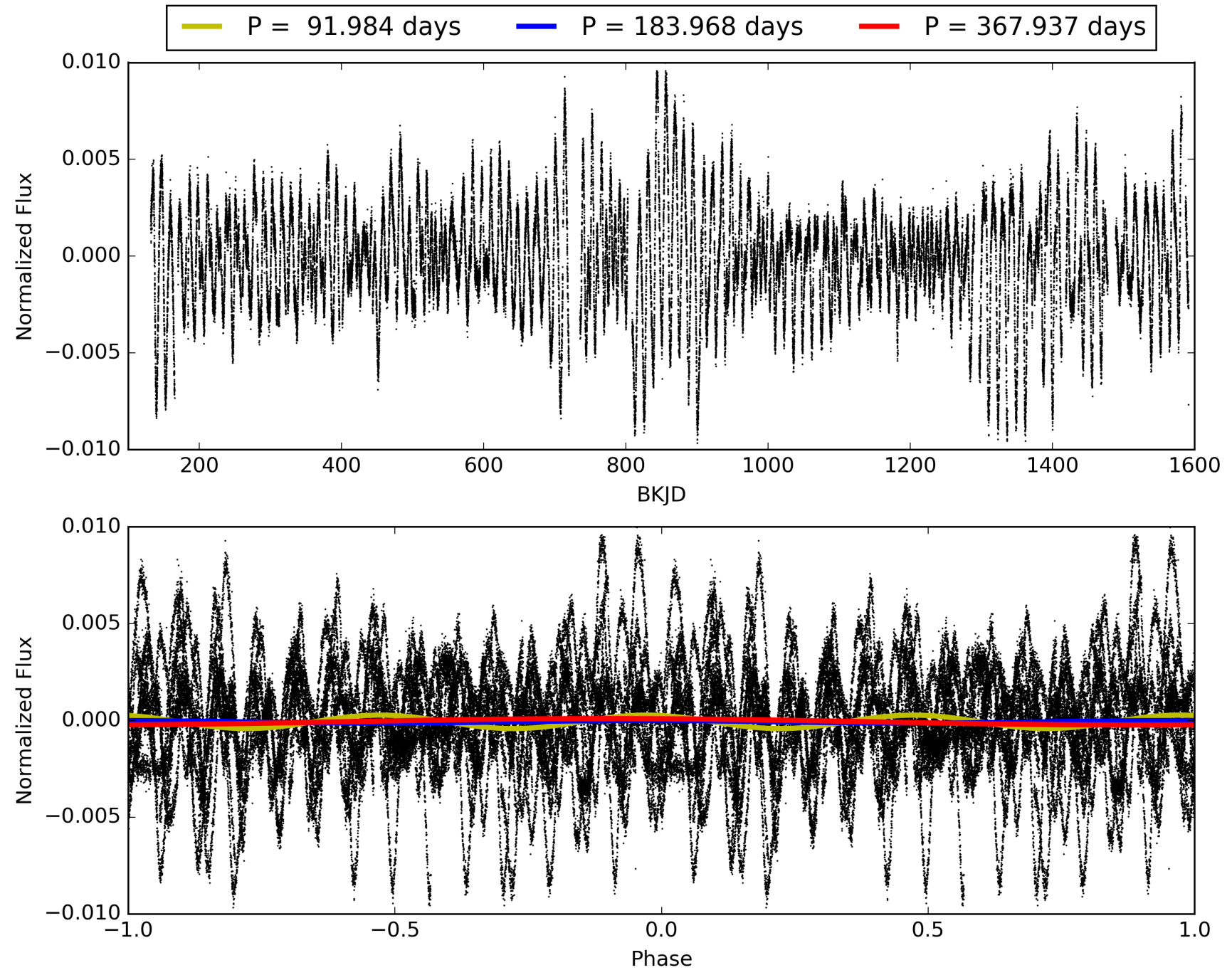
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:50:36 Z

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

TCE 005264764-03, PDC Light Curves

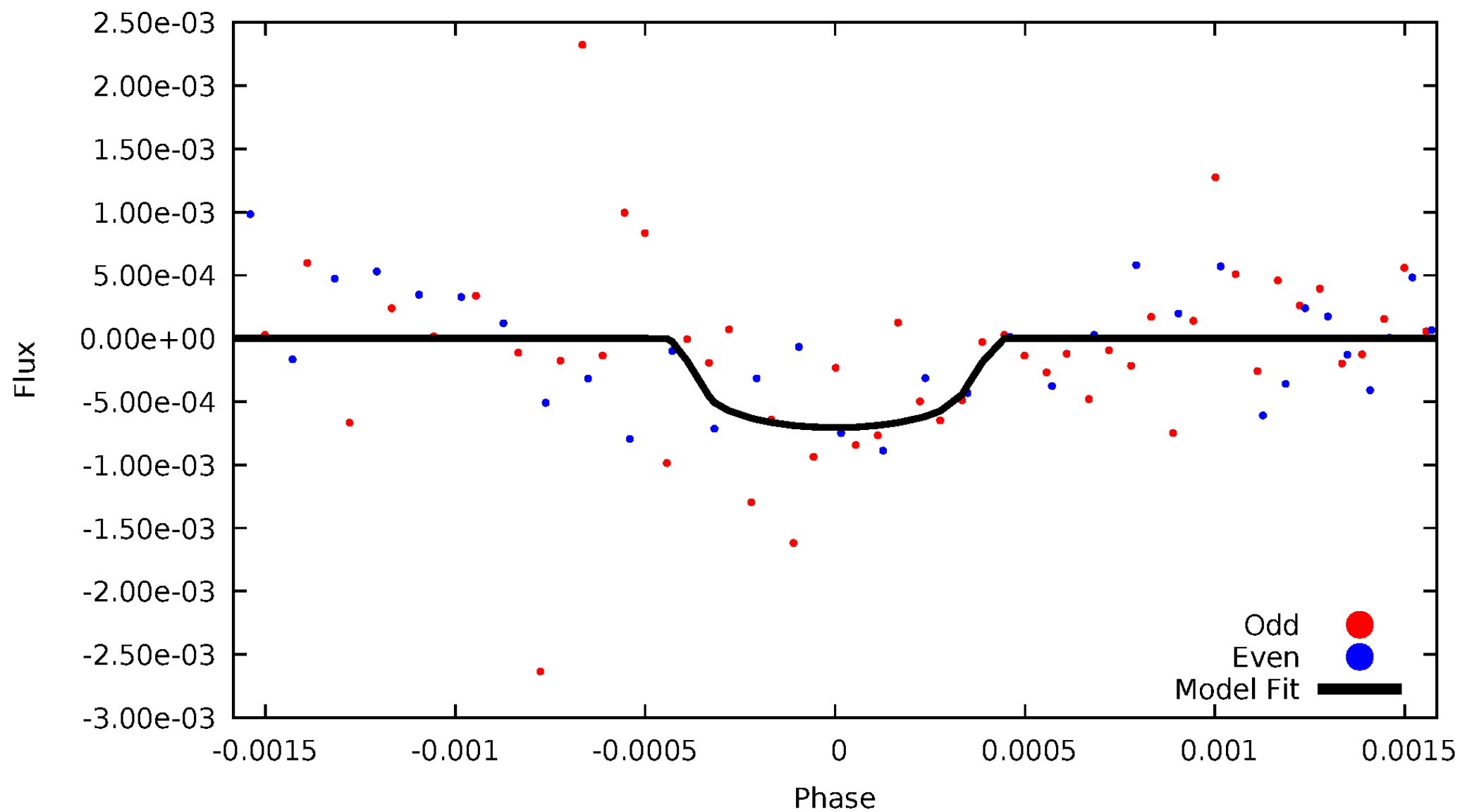


TCE 005264764-03



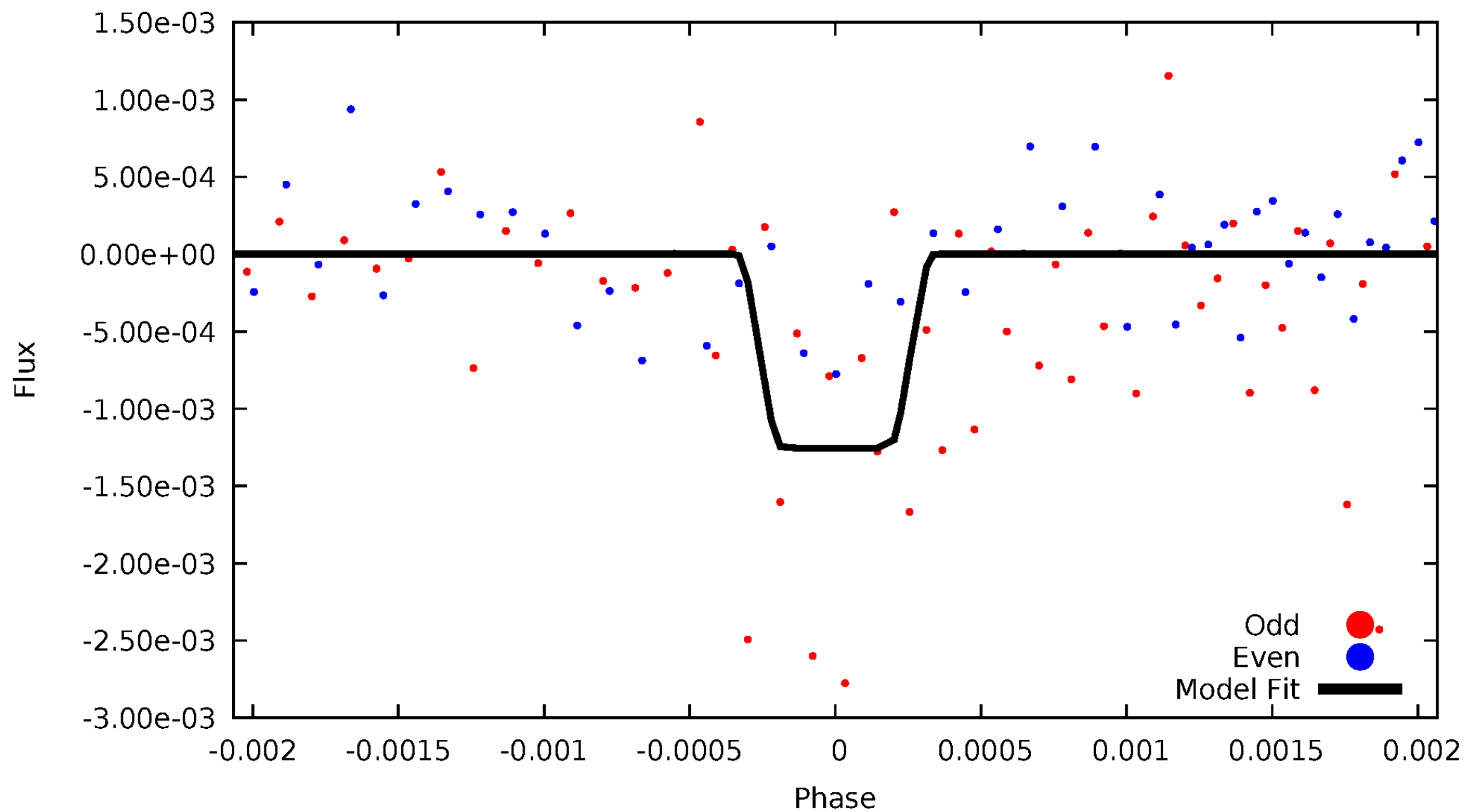
DV Odd/Even

TCE 005264764-03



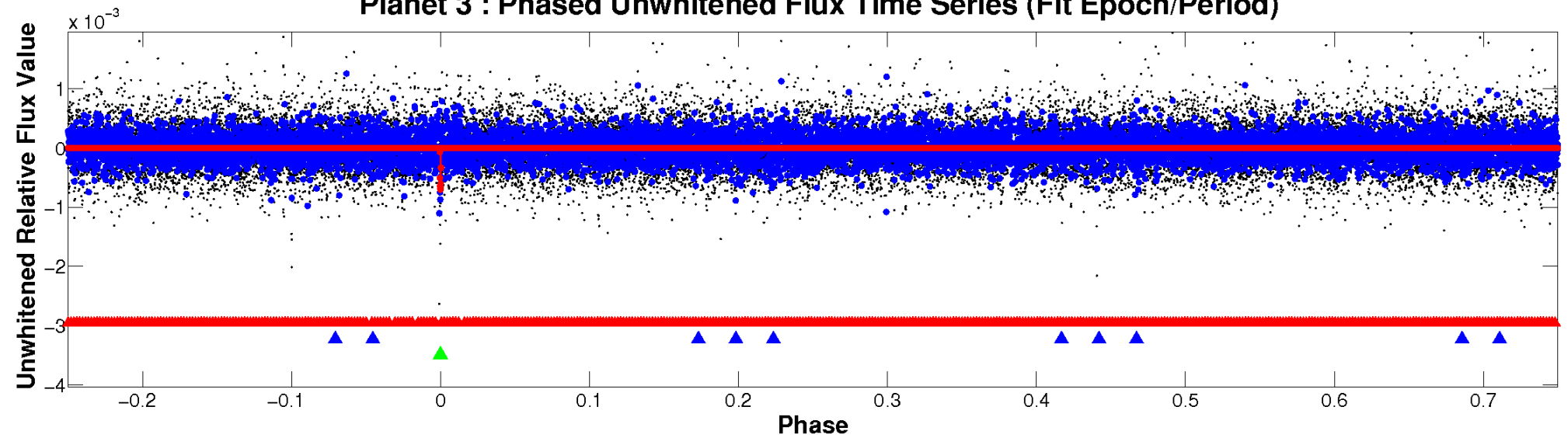
ALT Odd/Even

TCE 005264764-03

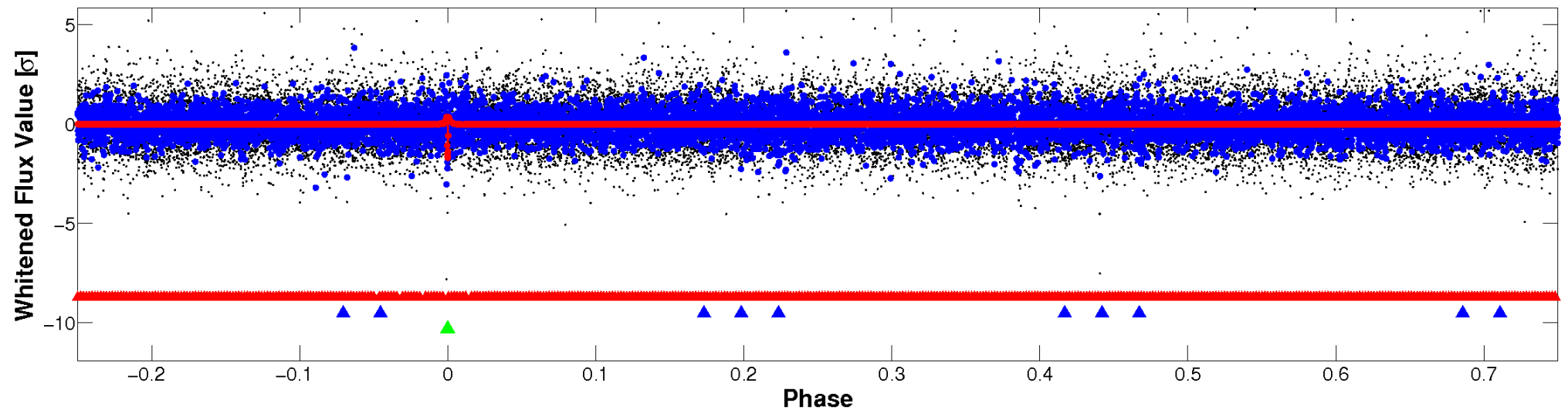


Non-Whitened Vs. Whitened Light Curve

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

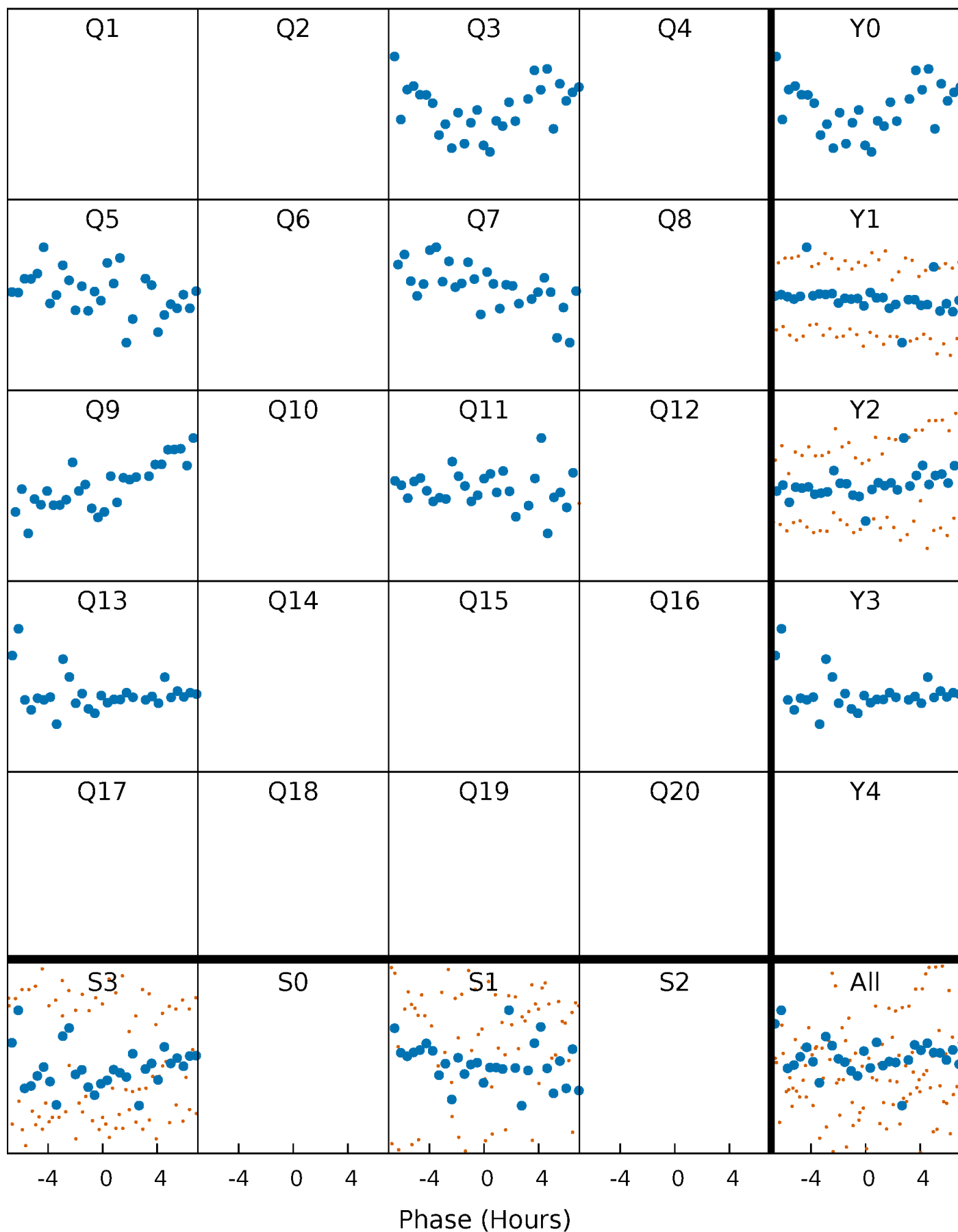


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



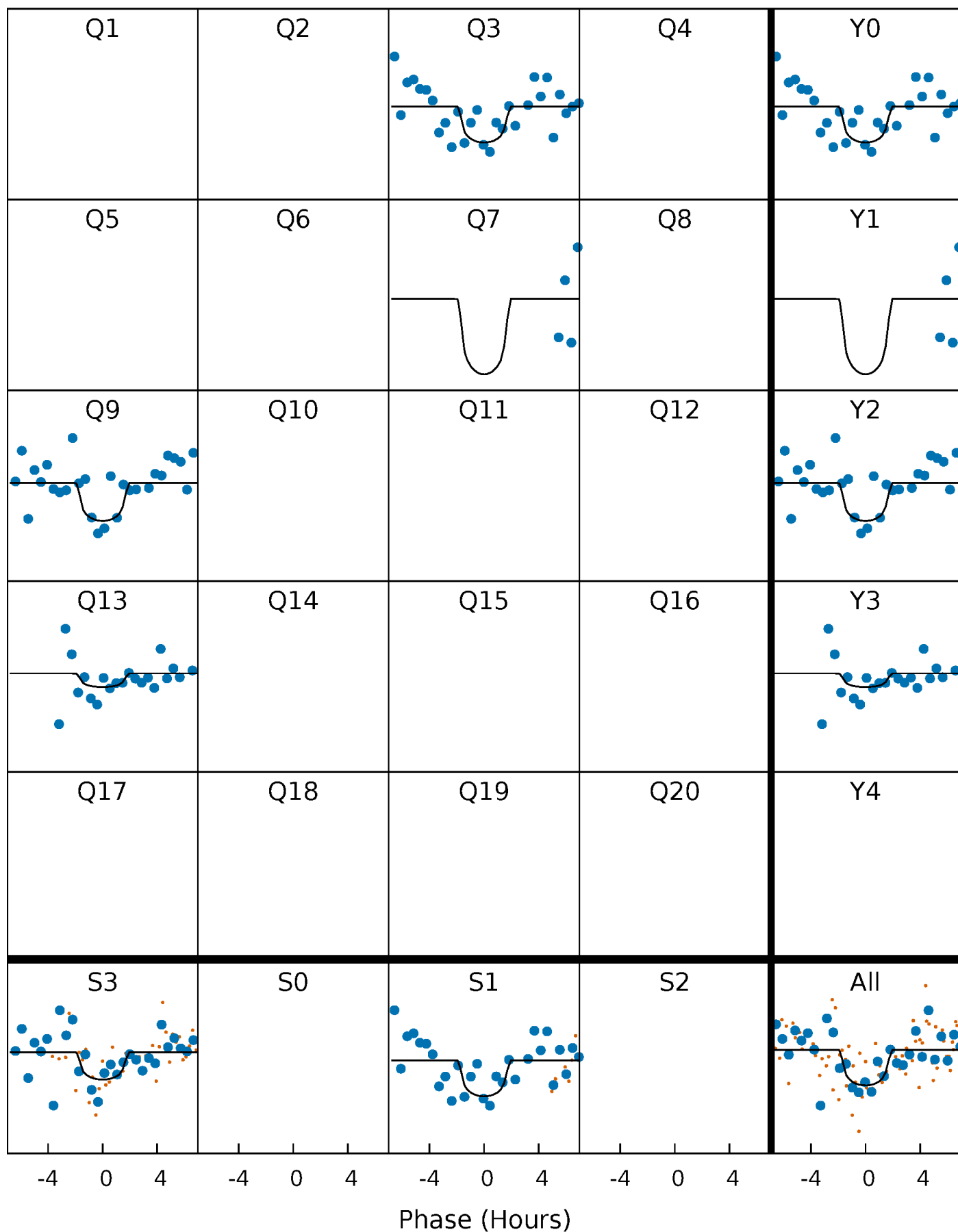
PDC Quarter-Phased Transit Curves

TCE 005264764-03 P=183.968472 Days $T_0=312.161789$ (BKJD)



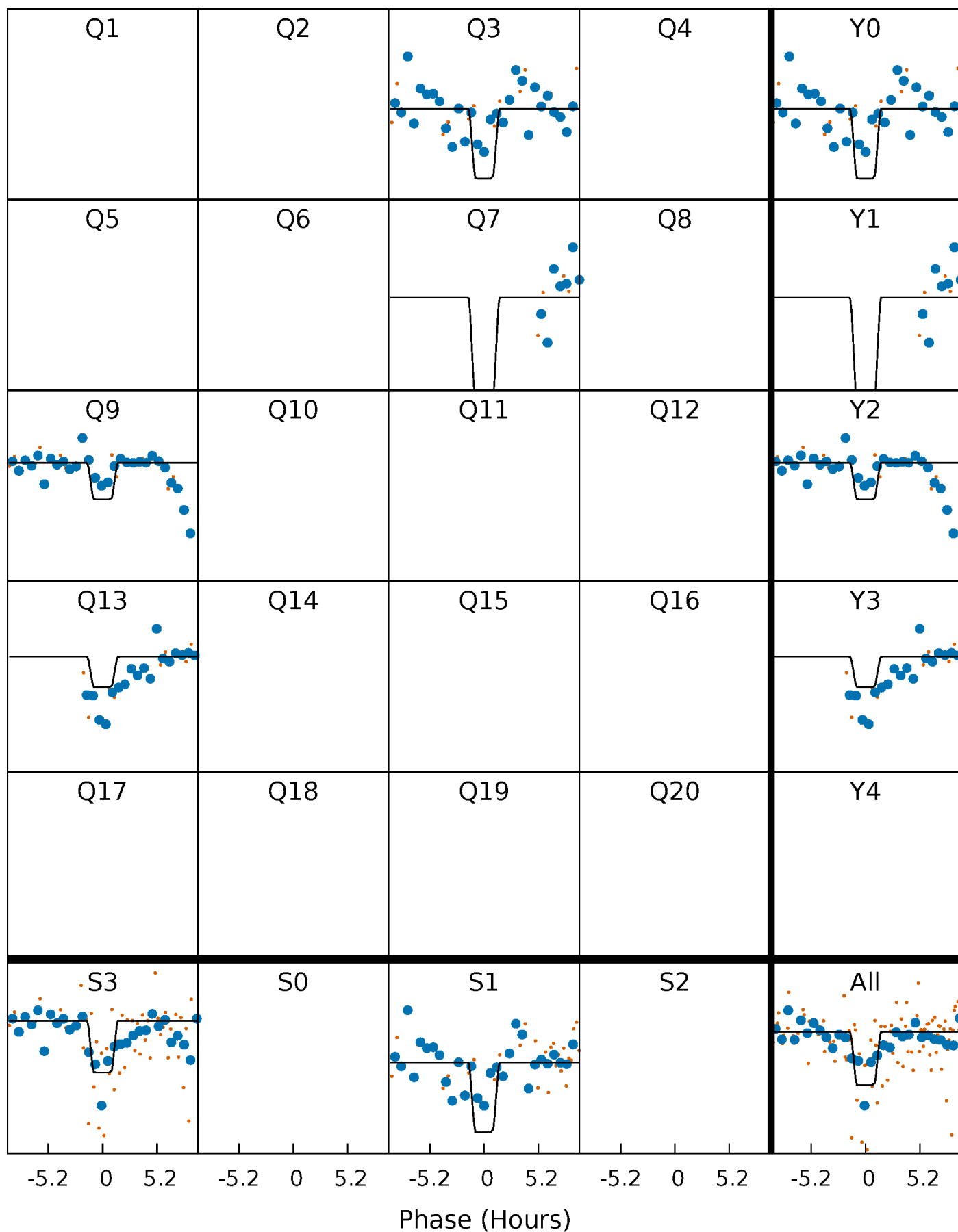
DV Quarter-Phased Transit Curves

TCE 005264764-03 P=183.968472 Days $T_0=312.161789$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

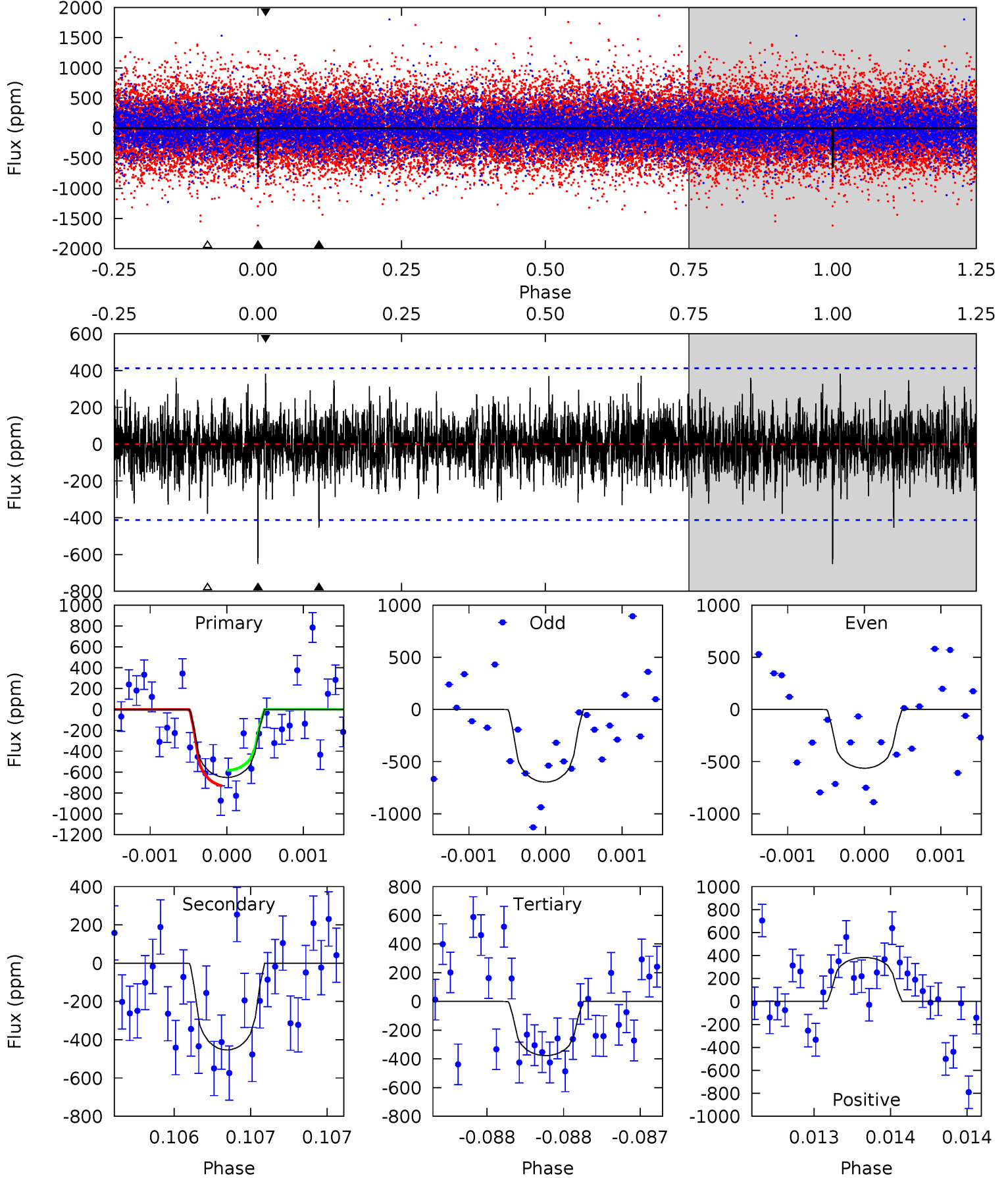
TCE 005264764-03 P=183.958654 Days $T_0=312.184580$ (BKJD)



DV Model-Shift Uniqueness Test

005264764-03, P = 183.968472 Days, E = 128.193317 Days

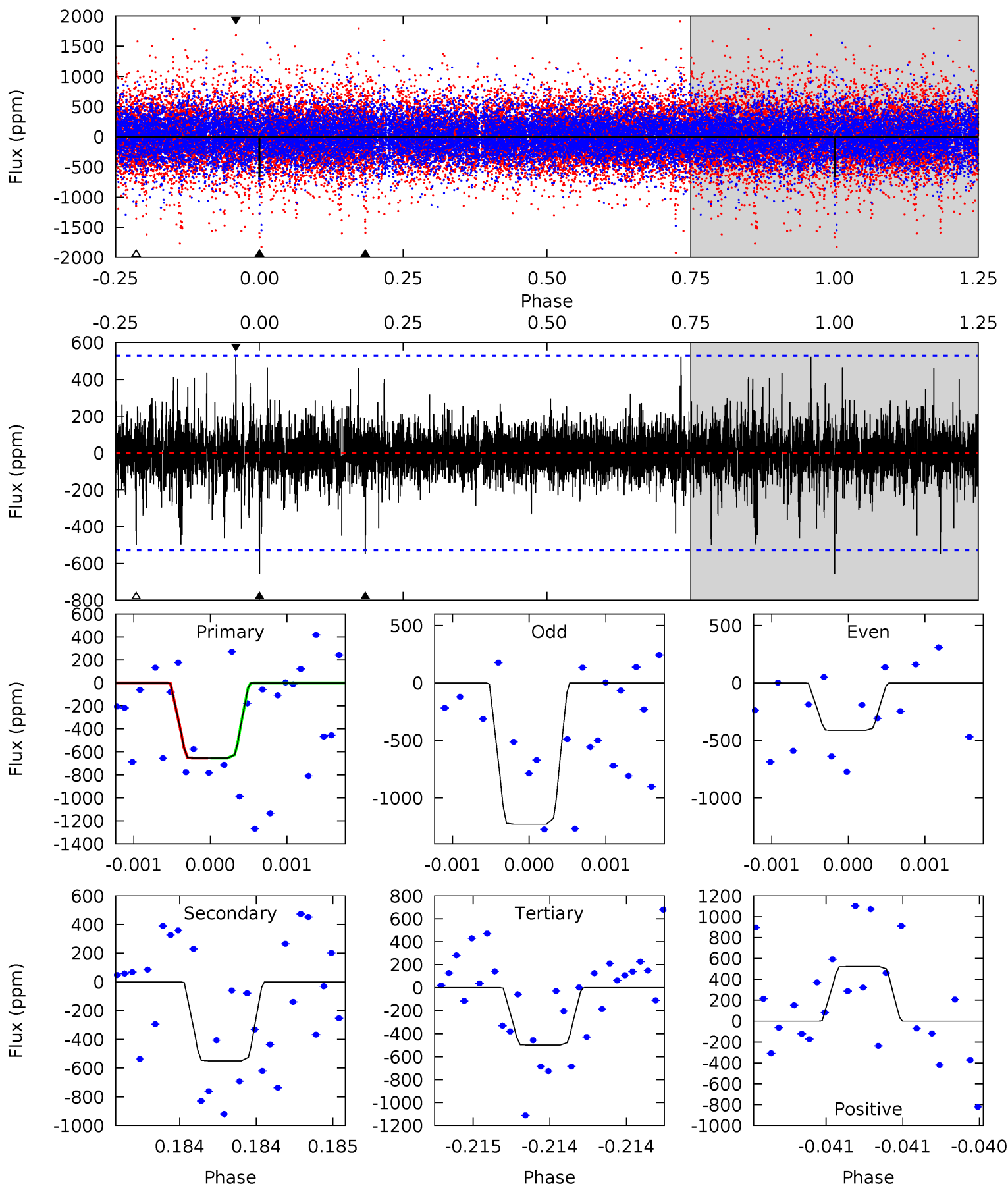
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.65	6.02	5.00	5.08	5.47	3.32	1.34	3.64	3.56	1.01	0.93	0.83	1.16	0.37	0.99



Alt Model-Shift Uniqueness Test

005264764-03, P = 183.958654 Days, E = 128.225926 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.85	5.75	5.23	5.47	5.53	3.42	1.02	1.62	1.38	0.51	0.28	3.99	2.43	0.44	0.01



Stellar Parameters For KIC 005264764

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5207^{+158}_{-158}	$4.477^{+0.104}_{-0.127}$	$-0.060^{+0.300}_{-0.300}$	$0.845^{+0.117}_{-0.105}$	$0.783^{+0.103}_{-0.060}$	$1.825^{+0.803}_{-0.601}$
	+3%/-3%	+2%/-3%	+500%/-500%	+14%/-12%	+13%/-8%	+44%/-33%
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 005264764-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-454 ± 75	$5.98^{+5.68}_{-4.28}$	388^{+20}_{-18}	3445^{+2046}_{-593}	2363^{+23861}_{-1738}
Alt.	-549 ± 95	$6.28^{+5.90}_{-4.04}$	389^{+18}_{-19}	3508^{+1792}_{-612}	2566^{+18912}_{-1860}

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

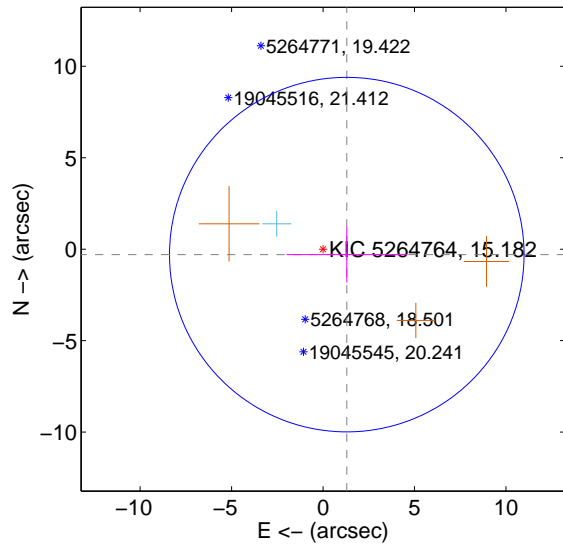
Supplemental centroid analysis for 005264764-03. Kepler magnitude: 15.18. Transit SNR 6.17

There are 1 quarters with good PRF difference image offsets

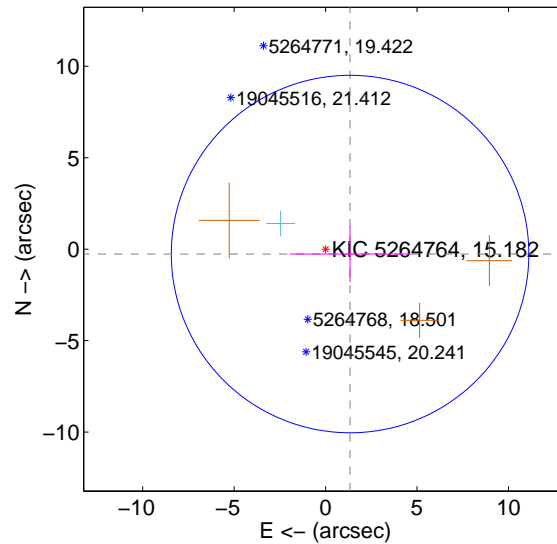
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.331 ± 3.230	0.41	-1.298 ± 3.295	-0.297 ± 1.525
PRF-fit source offset from KIC position	1.366 ± 3.257	0.42	-1.339 ± 3.307	-0.267 ± 1.529
photometric centroid source offset	0.57 ± 1.30	0.44	0.06 ± 1.34	-0.56 ± 1.30

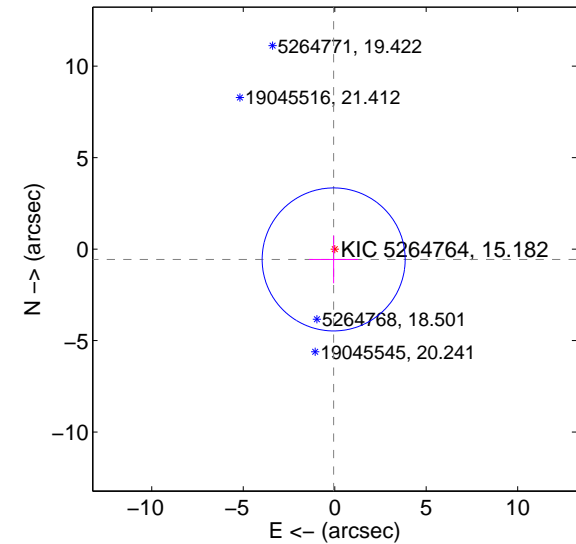
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

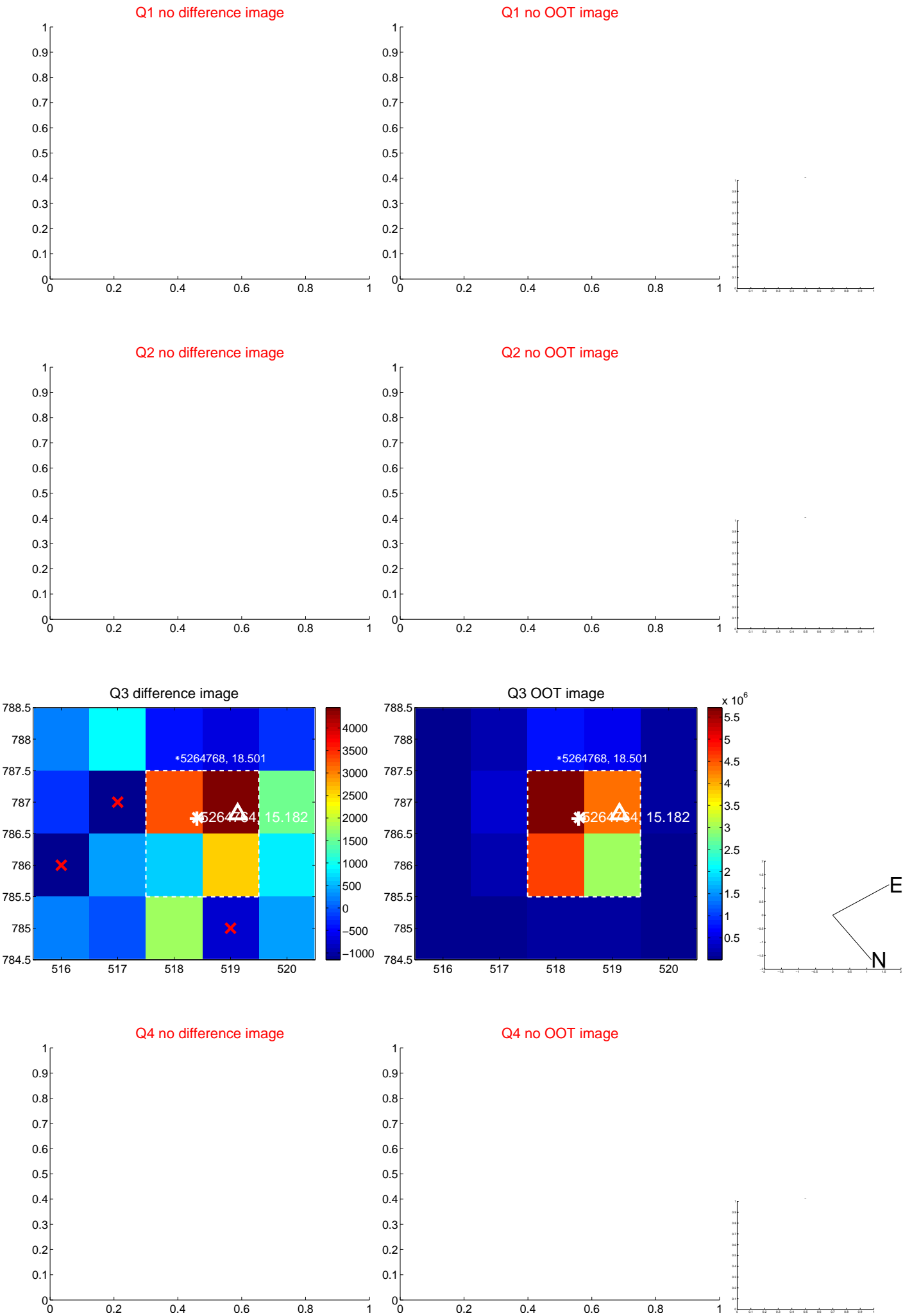


offset from photometric centroids

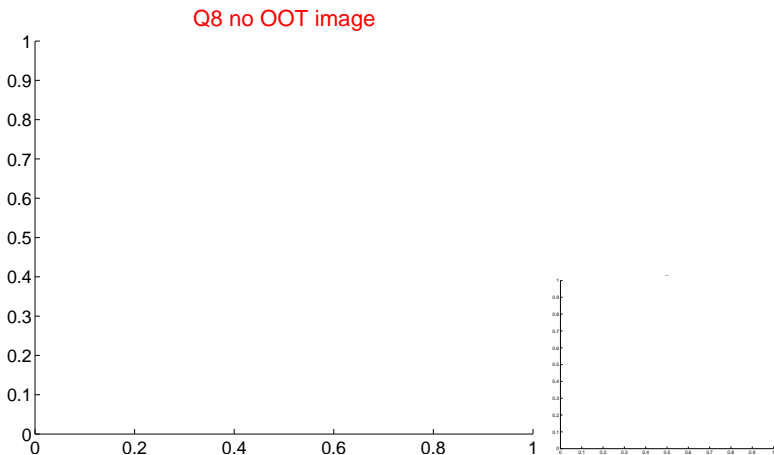
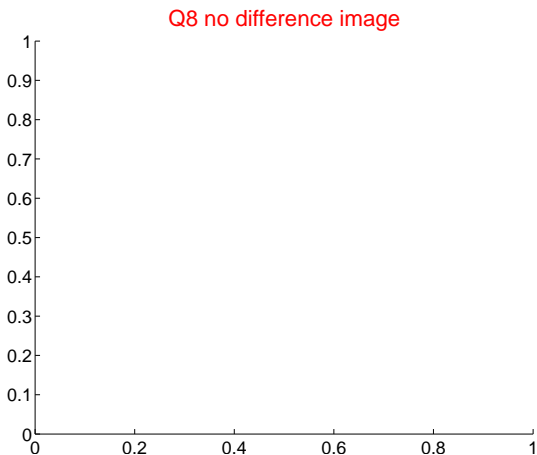
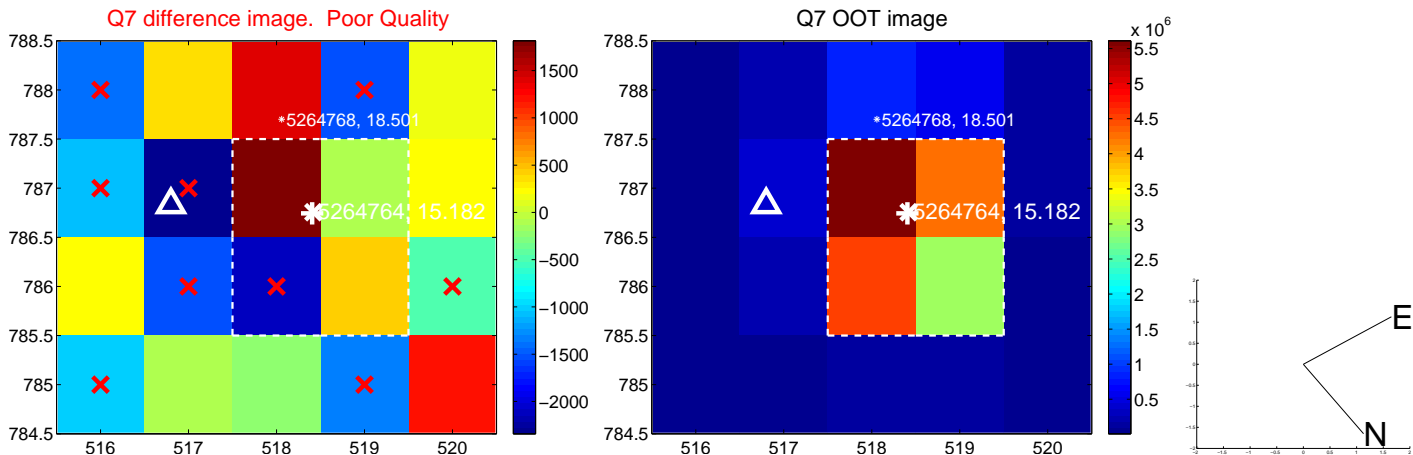
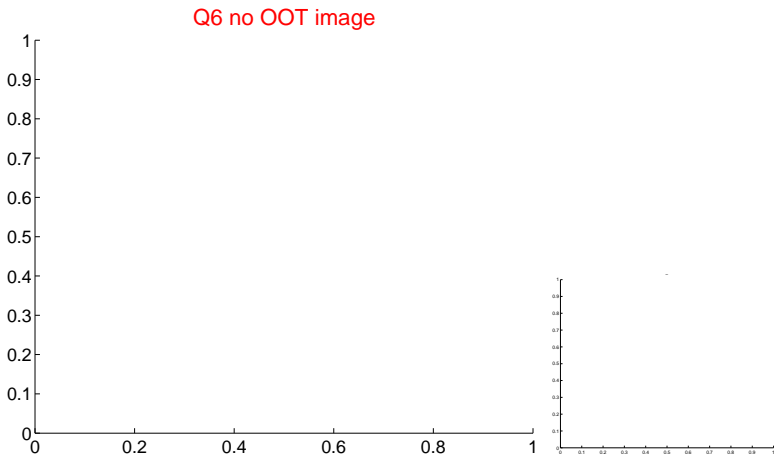
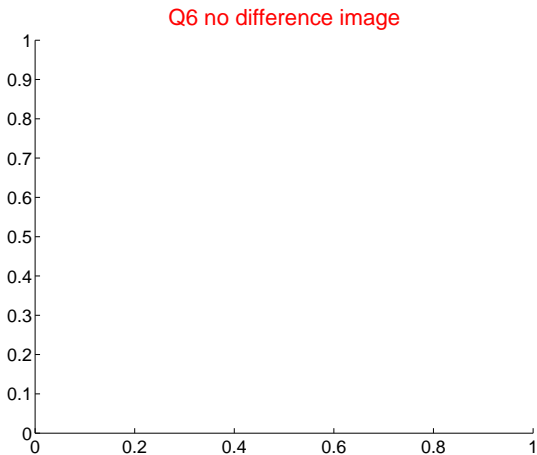
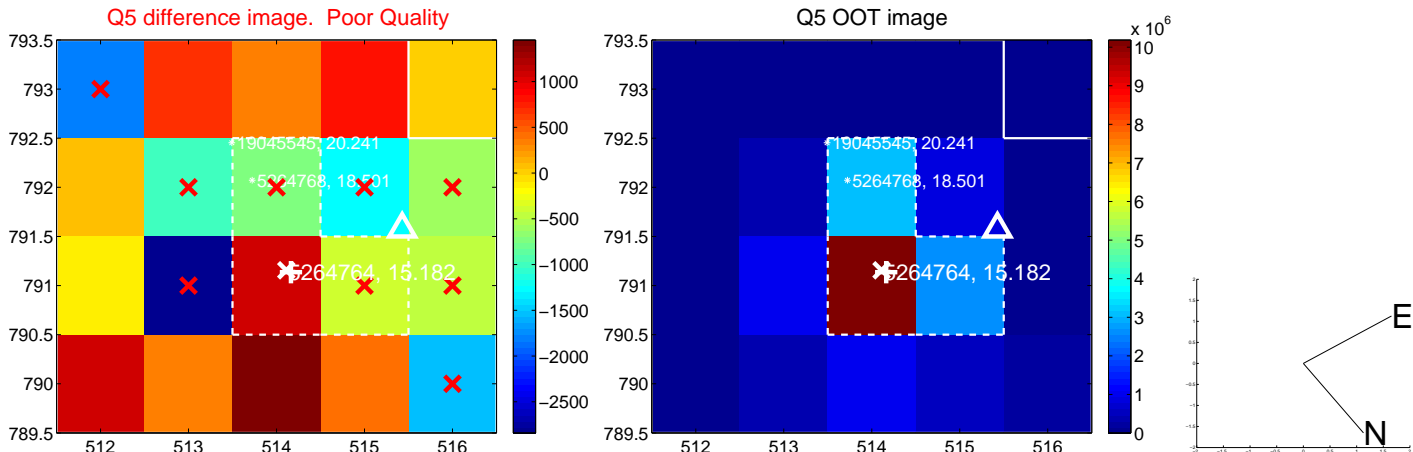


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

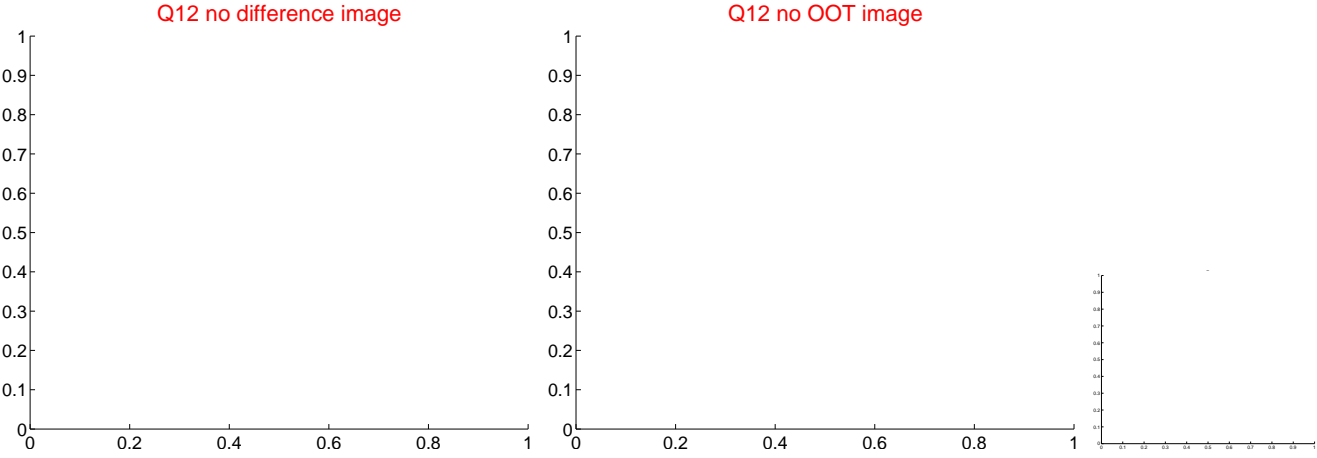
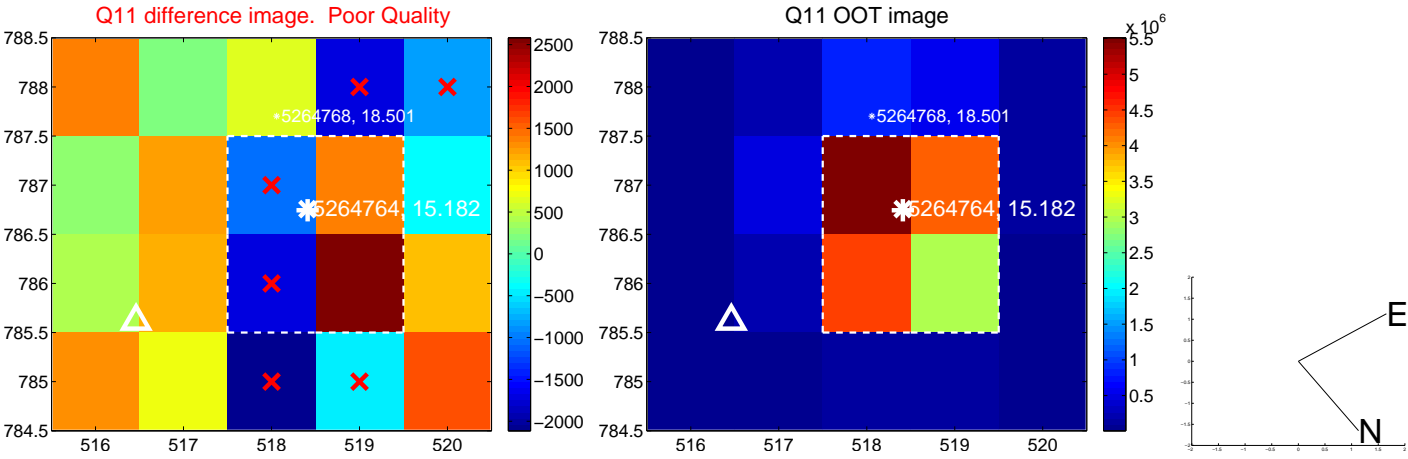
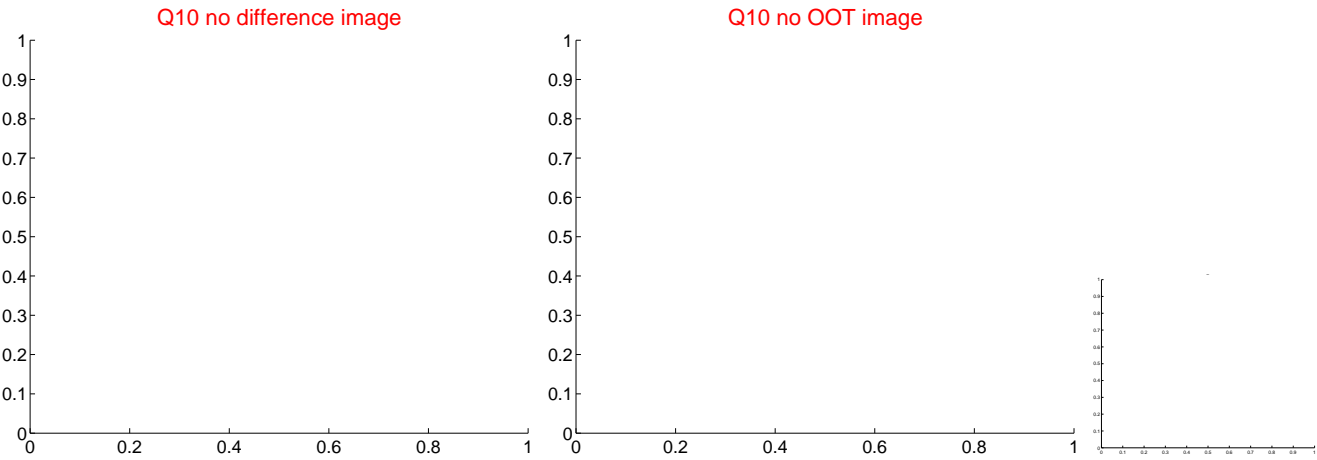
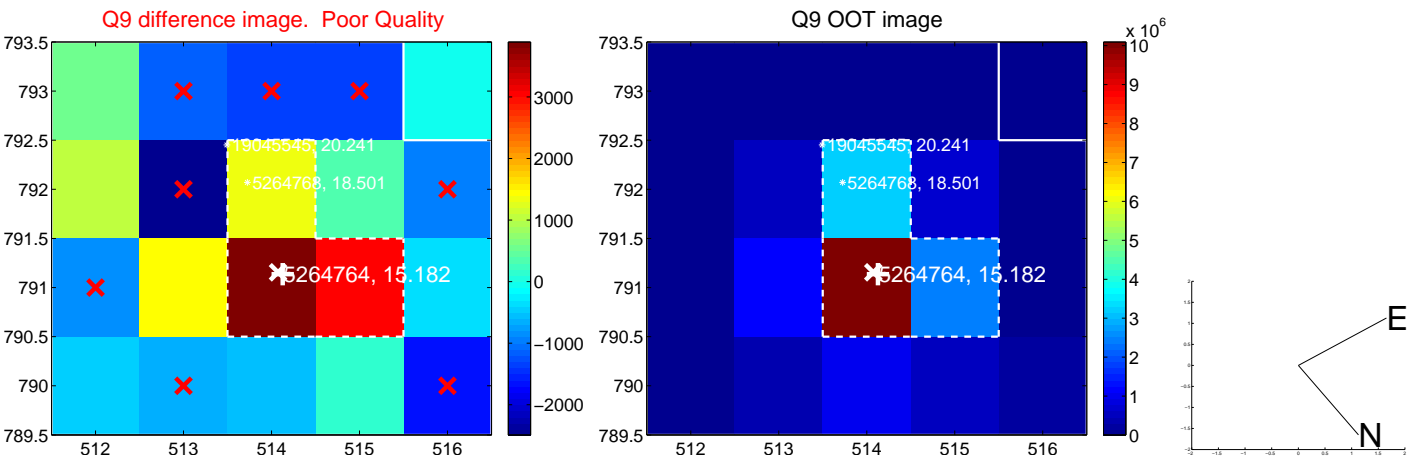
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



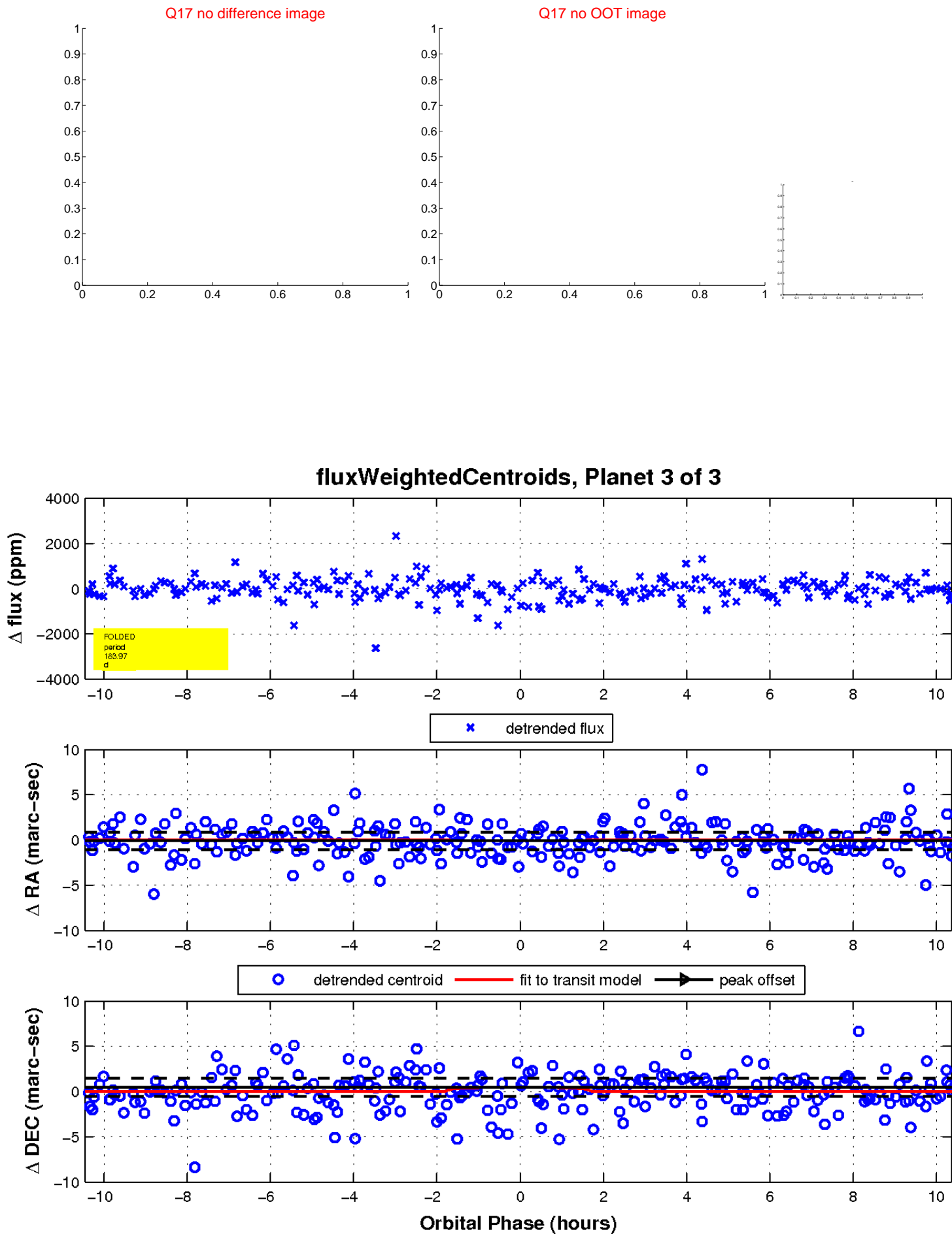
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

