

KIC 008308526

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})
008308526-01	OBS	No	1.329146	132.050880	17.1	8.492	7.8	9.4	1.48	6472	0.62	5831.66
008308526-02	OBS	No	45.162525	133.630202	78.5	2.047	9.5	2.3	1.48	6472	1.53	52.99
008308526-03	OBS	No	38.449266	148.080058	150.4	7.925	8.7	8.7	1.48	6472	2.45	65.67
008308526-04	OBS	No	37.355570	158.018002	84.9	5.937	7.1	5.6	1.48	6472	1.59	68.25
008308526-05	OBS	No	83.541172	213.823865	239.8	3.923	8.6	8.2	1.48	6472	2.64	23.34
008308526-06	OBS	No	36.820089	158.168406	146.3	4.347	8.6	8.3	1.48	6472	1.94	69.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008308526-01	OBS	FP	0.00	1	0	0	0	LPP_DV
008308526-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
008308526-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
008308526-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008308526-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS—HALO_GHOST
008308526-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT

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

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

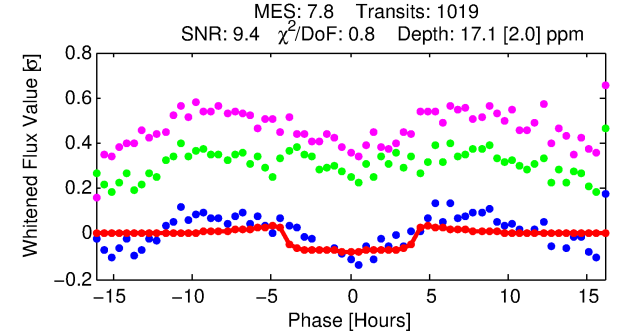
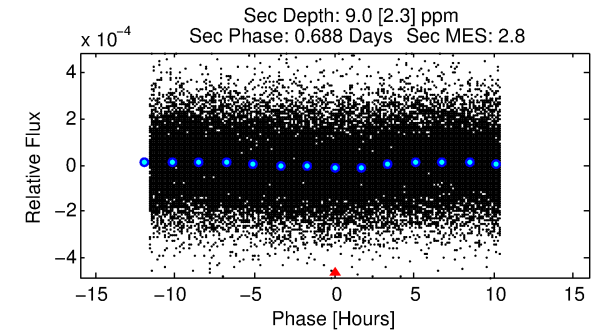
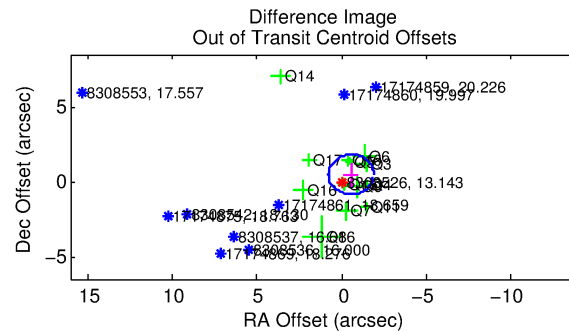
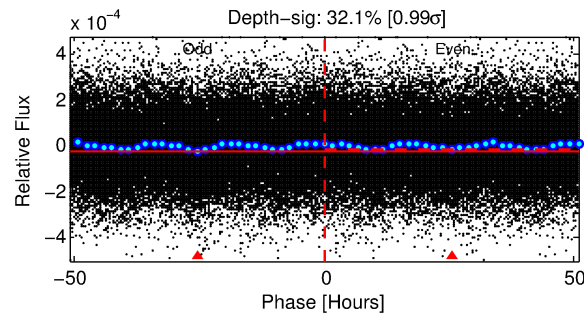
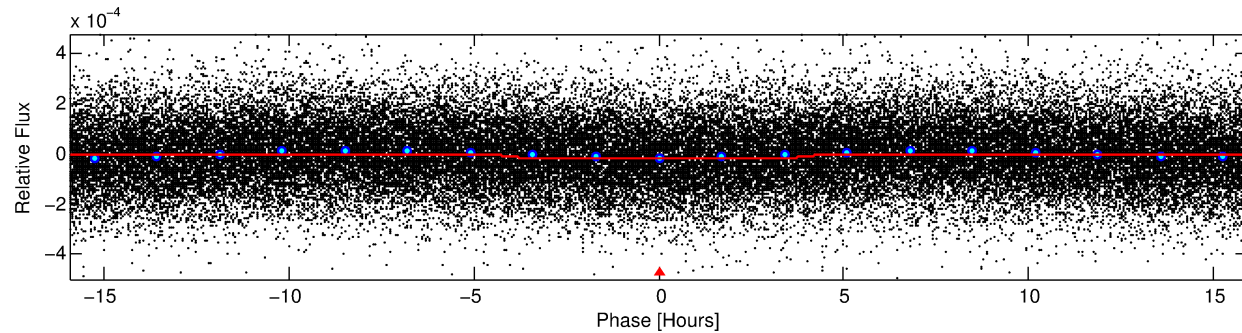
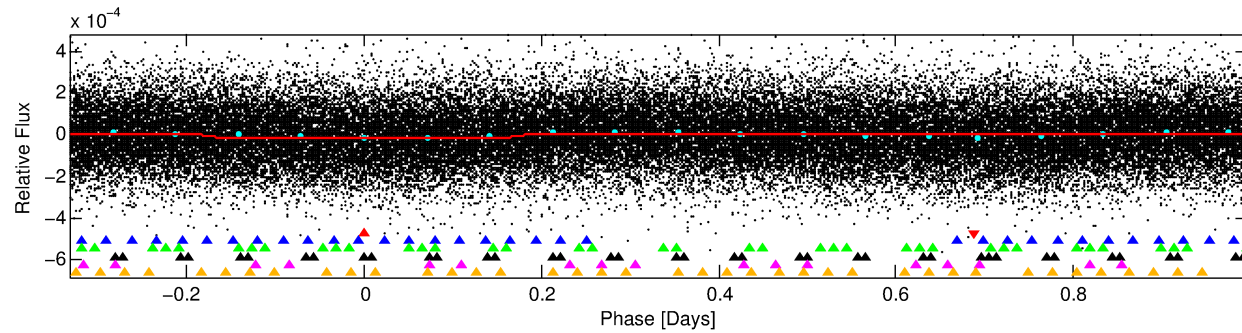
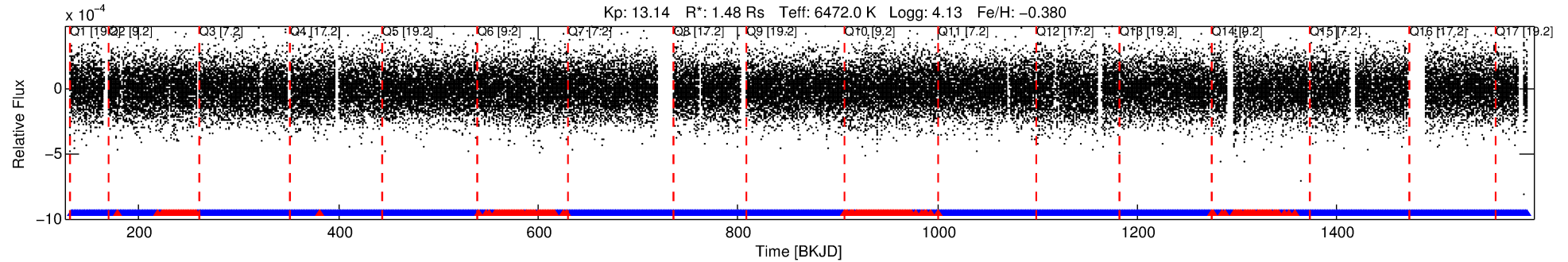
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008308526-01

No Significant Match Found

DV One-Page Summary

KIC: 8308526 Candidate: 1 of 6 Period: 1.329 d



DV Fit Results:

Period = 1.32915 [0.00002] d
Epoch = 132.0509 [0.0055] BKJD
Rp/R* = 0.0038 [0.0027]
a/R* = 1.33 [2.16]
b = 0.26 [13.36]
Seff = 5831.66 [2129.52]
Teq = 2228 [203] K
Rp = 0.62 [0.46] Re
a = 0.0243 [0.0054] AU
Ag = 7.65 [11.17] [0.60 σ]
Teffp = 5730 [2039] K [1.71 σ]

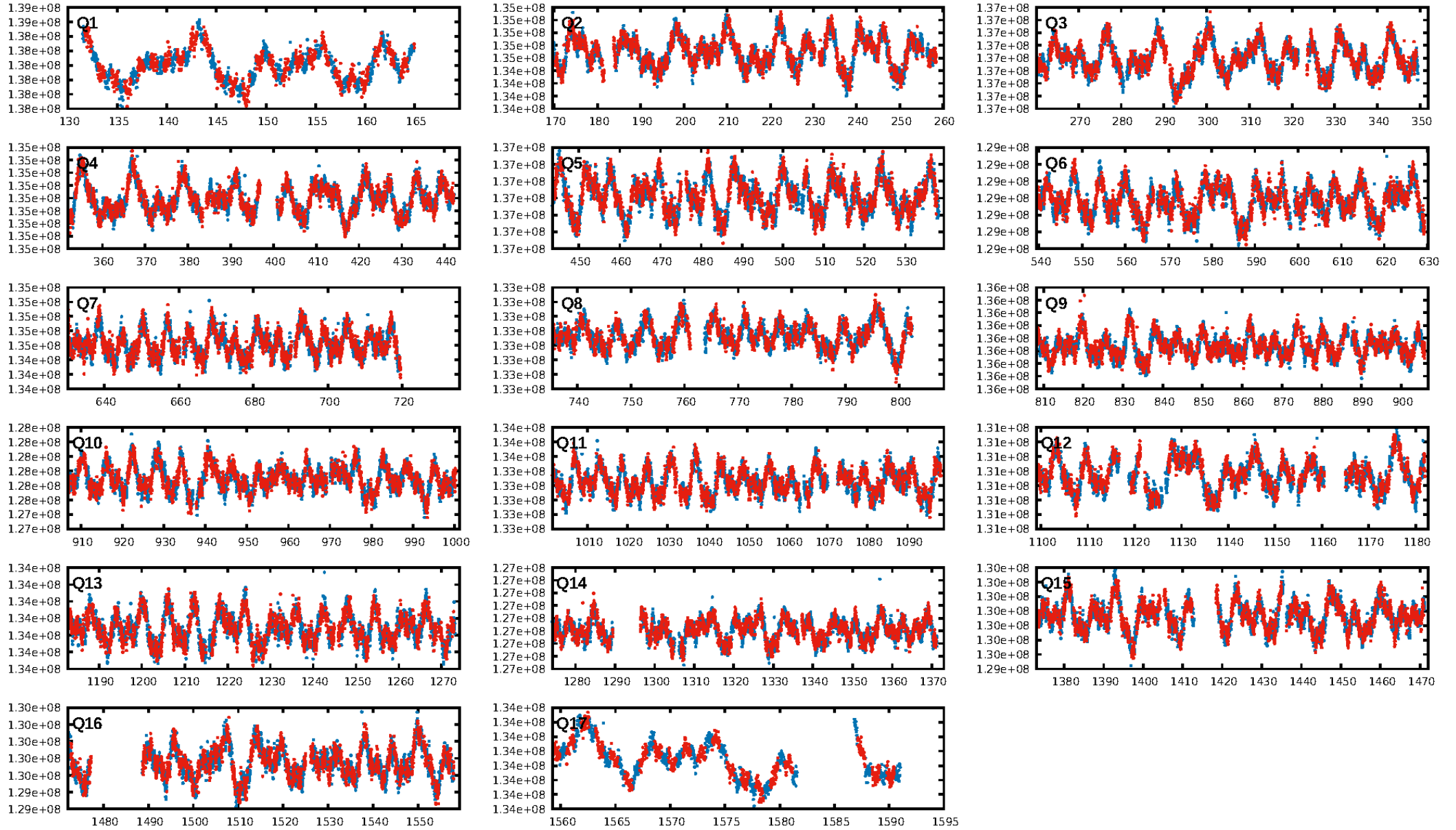
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [89.28 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.54e-08
RollingBand-fgt: 0.82 [802/974]
GhostDiagnostic-chr: -29.3
Centroid-sig: 33.8%
Centroid-so: 0.674 arcsec [0.76 σ]
OotOffset-rm: 0.727 arcsec [1.64 σ]
KicOffset-rm: 0.673 arcsec [1.63 σ]
OotOffset-st: 3/4/3/3 [13]
KicOffset-st: 3/4/3/3 [13]
DiffImageQuality-fgm: 0.85 [11/13]
DiffImageOverlap-fno: 1.00 [17/17]

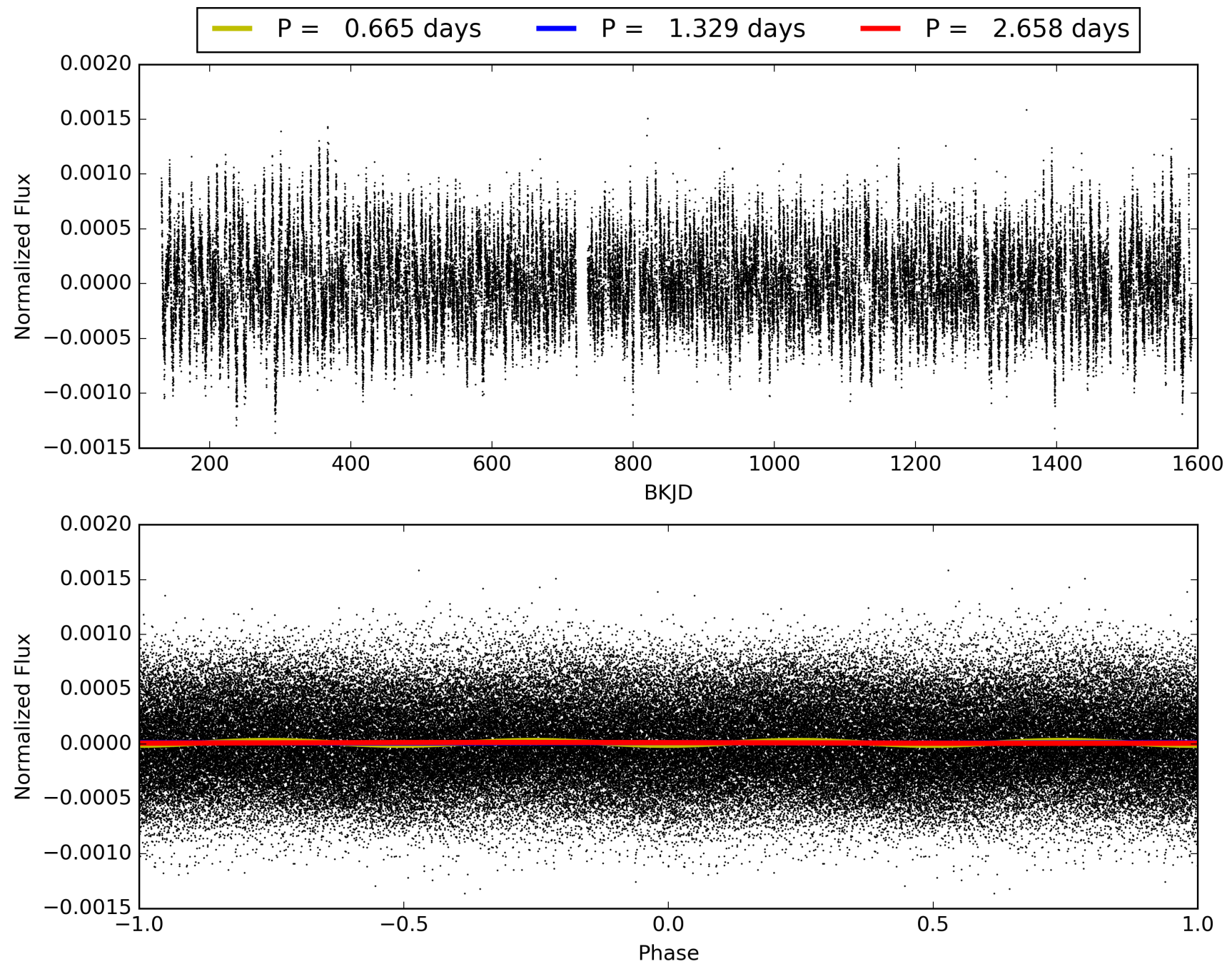
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008308526-01, PDC Light Curves

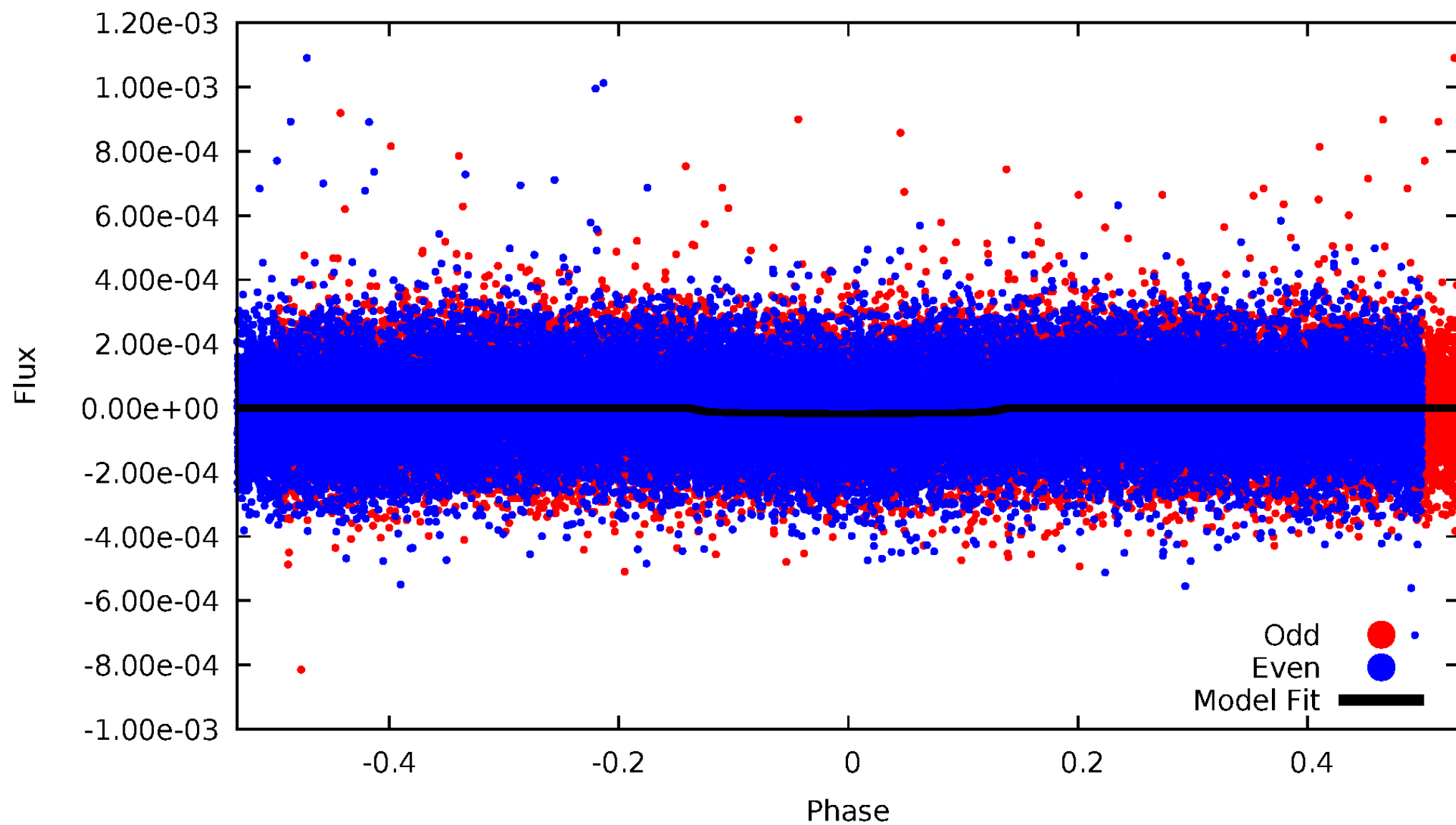


TCE 008308526-01



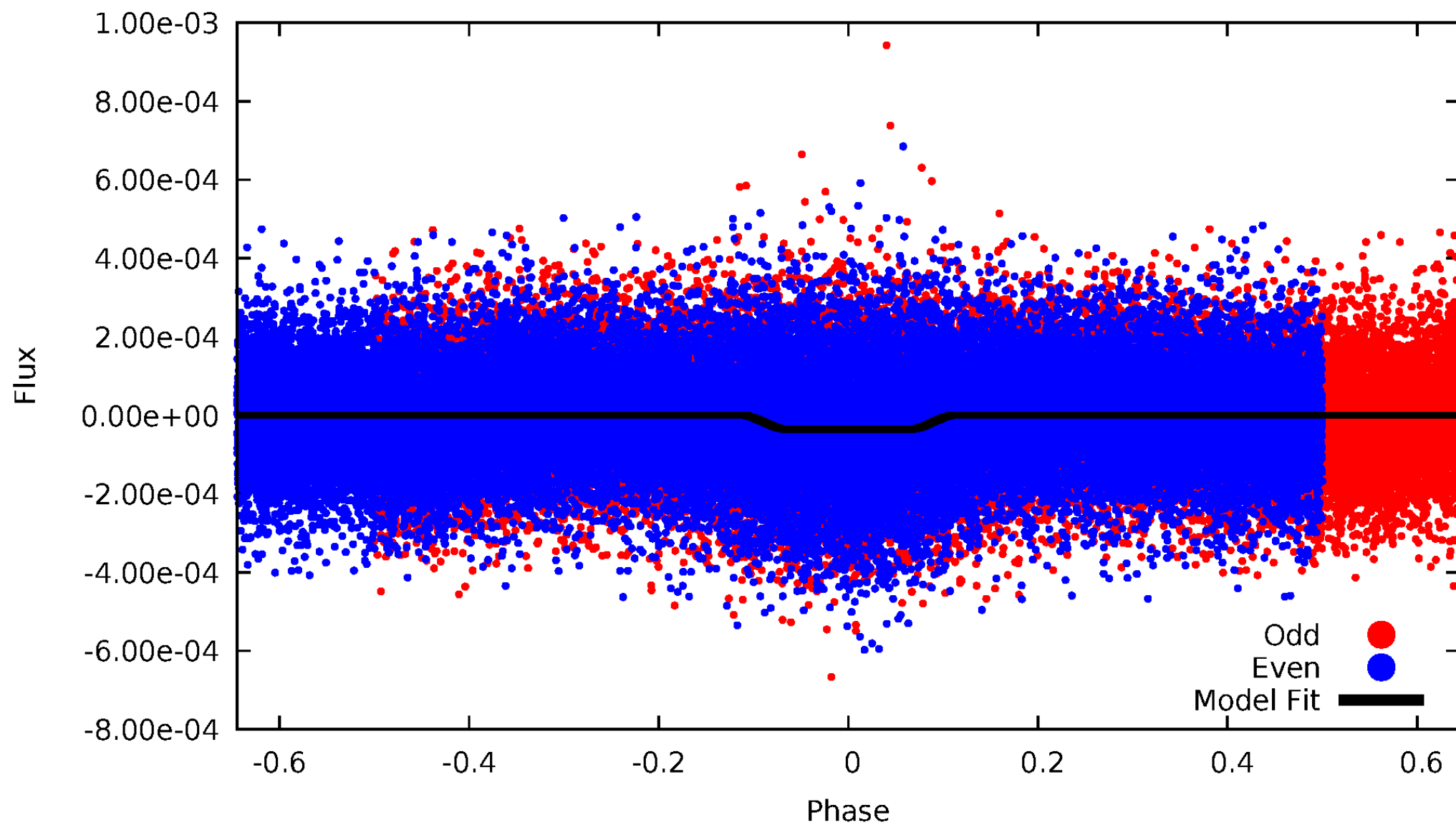
DV Odd/Even

TCE 008308526-01

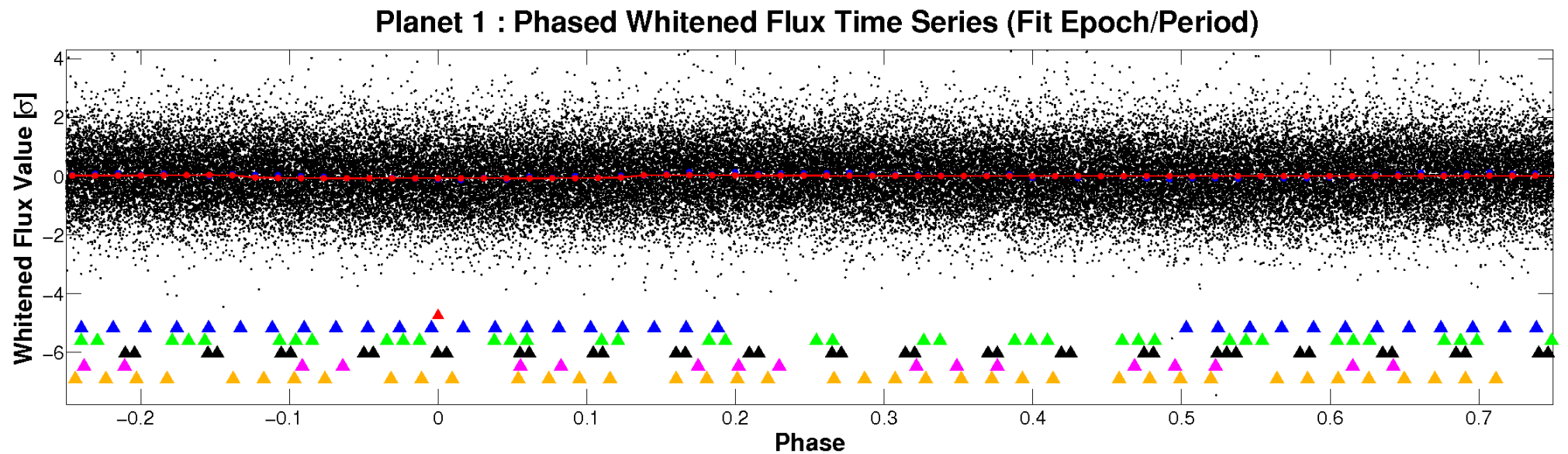
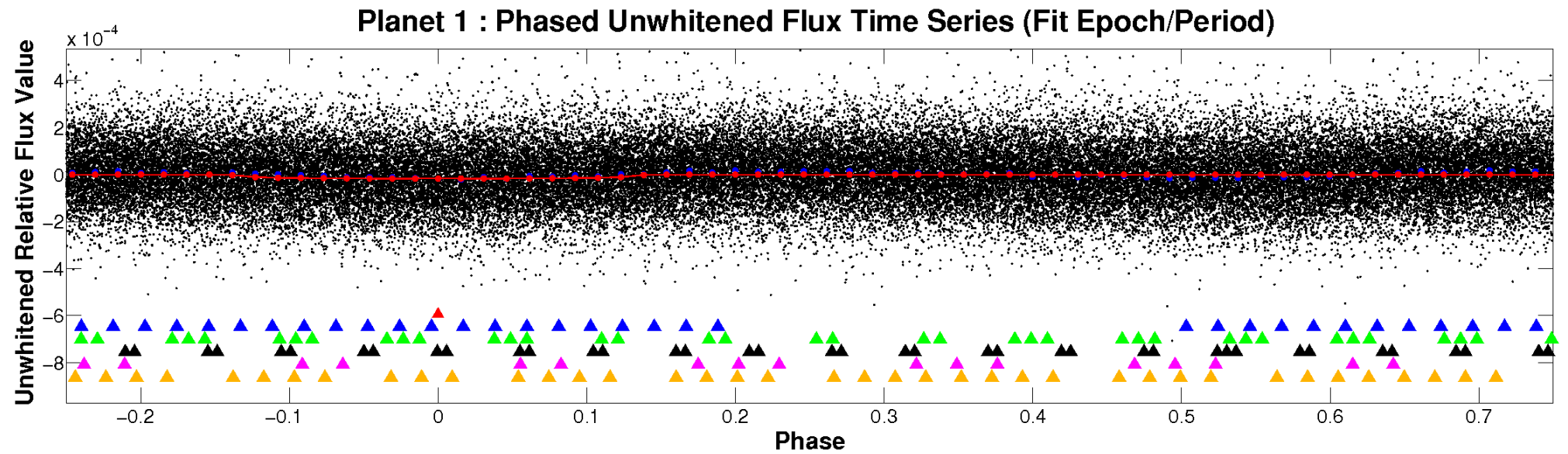


ALT Odd/Even

TCE 008308526-01

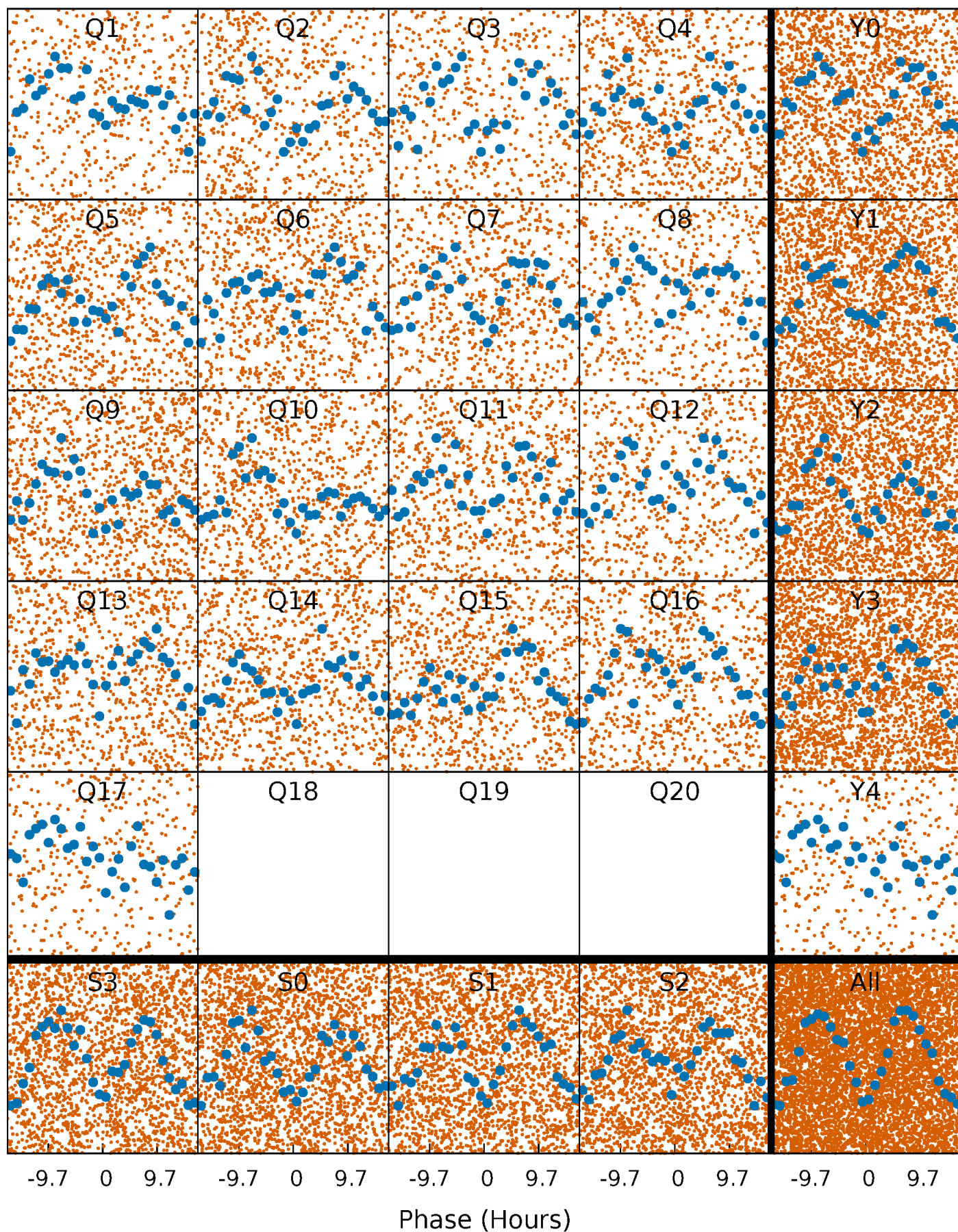


Non-Whitened Vs. Whitened Light Curve



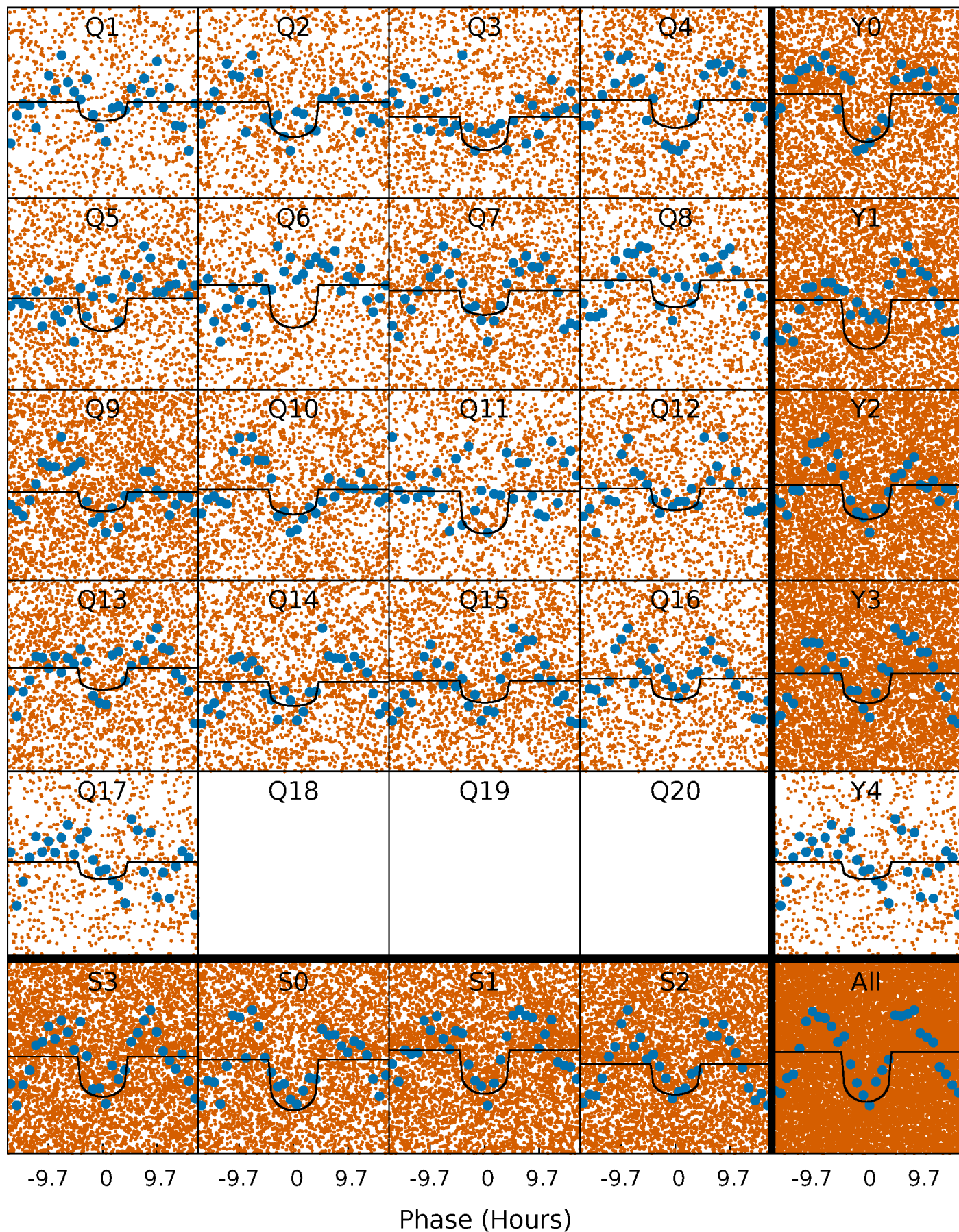
PDC Quarter-Phased Transit Curves

TCE 008308526-01 P= 1.329146 Days $T_0=132.050880$ (BKJD)



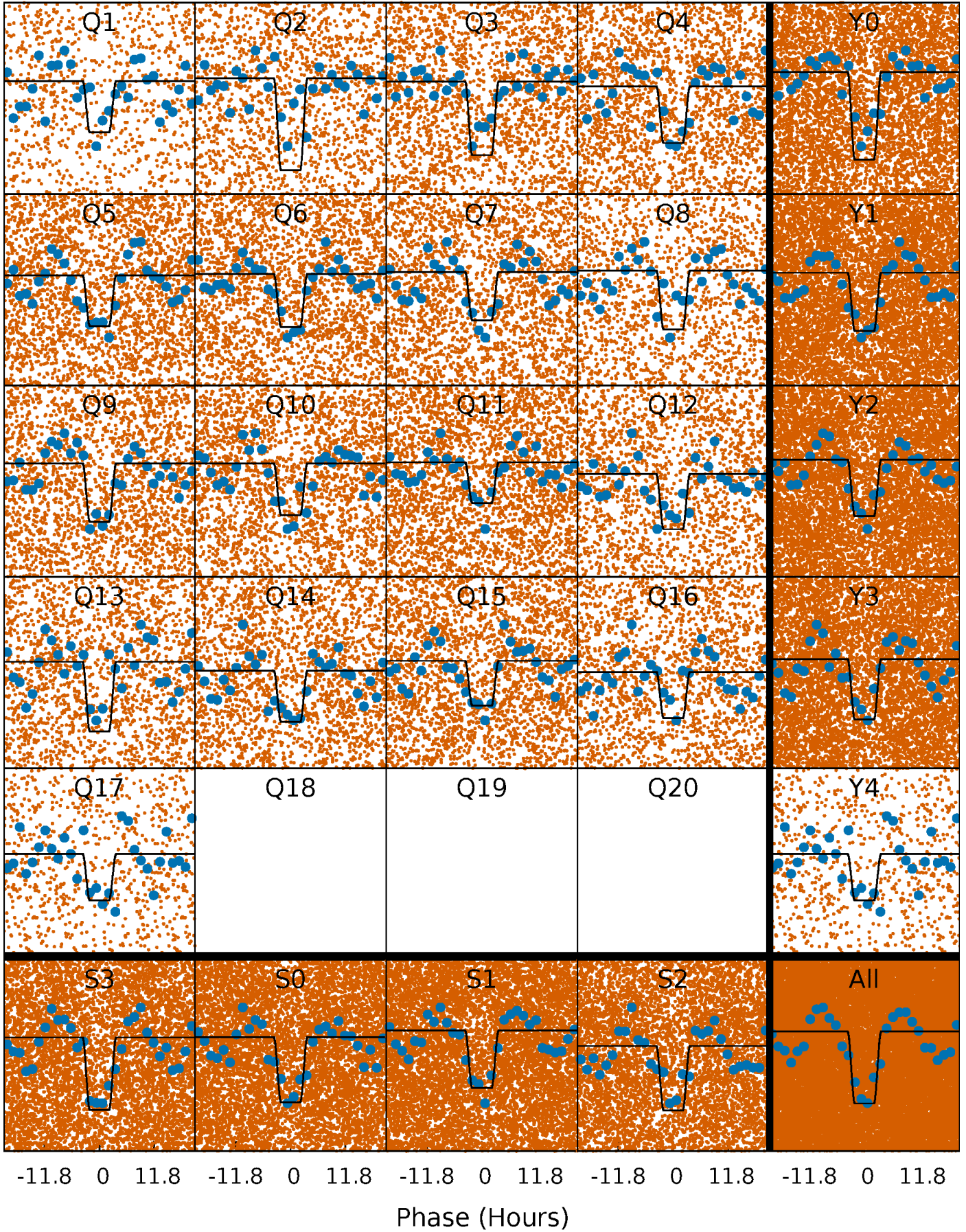
DV Quarter-Phased Transit Curves

TCE 008308526-01 P= 1.329146 Days $T_0=132.050880$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

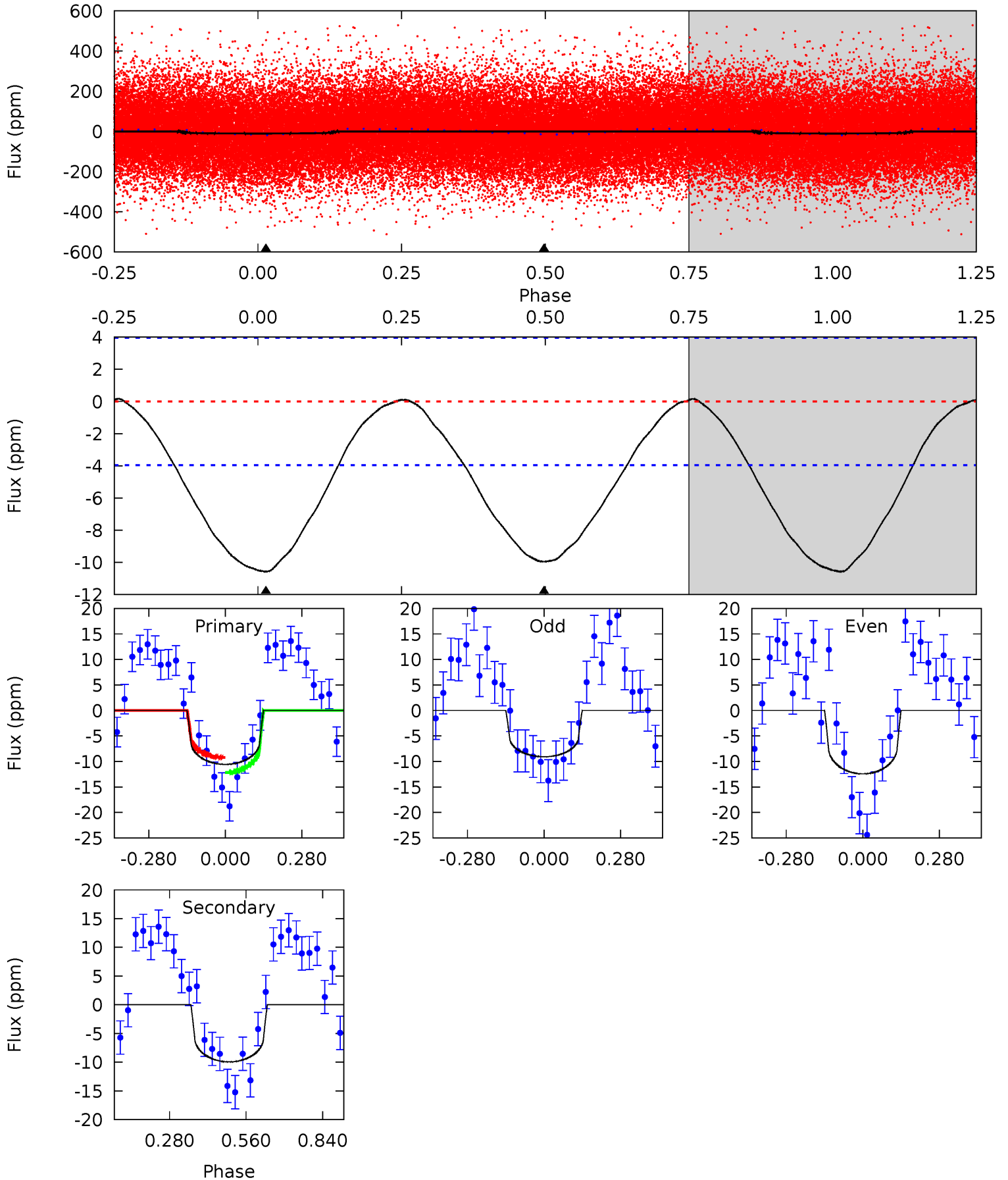
TCE 008308526-01 P= 1.329150 Days $T_0=132.055129$ (BKJD)



DV Model-Shift Uniqueness Test

008308526-01, P = 1.329146 Days, E = 130.721734 Days

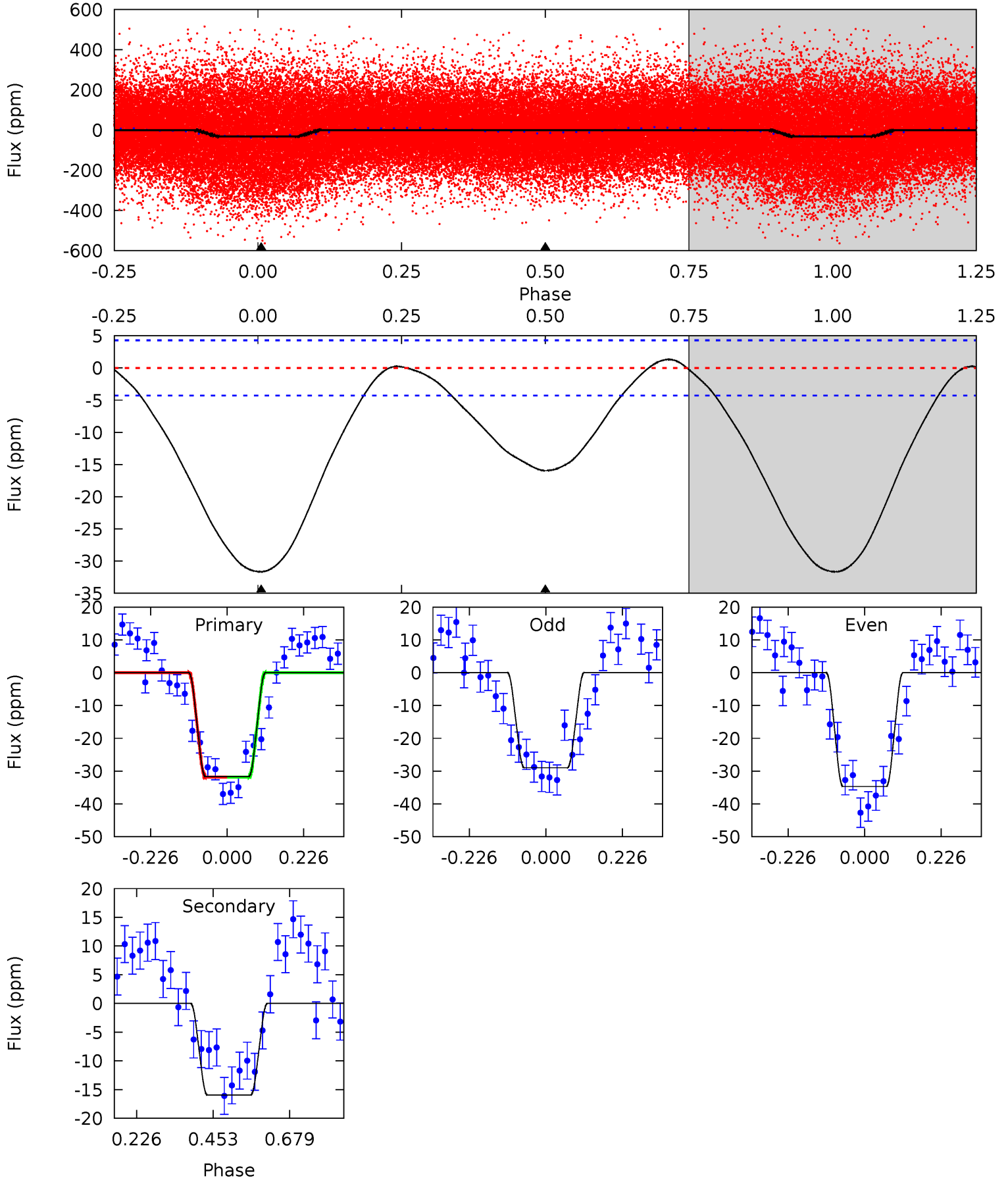
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.6	10.9	0	0	4.34	1.08	0.20	11.6	11.6	10.9	10.9	1.82	1.10	0.02	1.58



Alt Model-Shift Uniqueness Test

008308526-01, P = 1.329150 Days, E = 130.725979 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
32.4	16.3	0	0	4.39	1.21	0.98	32.4	32.4	16.3	16.3	2.95	1.19	0.04	0.01



Stellar Parameters For KIC 008308526

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6472^{+146}_{-194}	$4.132^{+0.198}_{-0.132}$	$-0.380^{+0.300}_{-0.300}$	$1.480^{+0.296}_{-0.362}$	$1.081^{+0.162}_{-0.133}$	$0.470^{+0.514}_{-0.184}$
	+2%/-3%	+5%/-3%	+79%/-79%	+20%/-24%	+15%/-12%	+109%/-39%
Source	PHO1	FLK73	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 008308526-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-10 ± 1	$0.67^{+0.45}_{-0.36}$	3094^{+182}_{-202}	5564^{+3052}_{-1150}	$7.332^{+26.736}_{-4.644}$
Alt.	-16 ± 1	$0.93^{+0.42}_{-0.40}$	3088^{+177}_{-204}	5283^{+1705}_{-812}	$5.909^{+12.264}_{-3.078}$

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 $A_{obs} \gg 1.0$

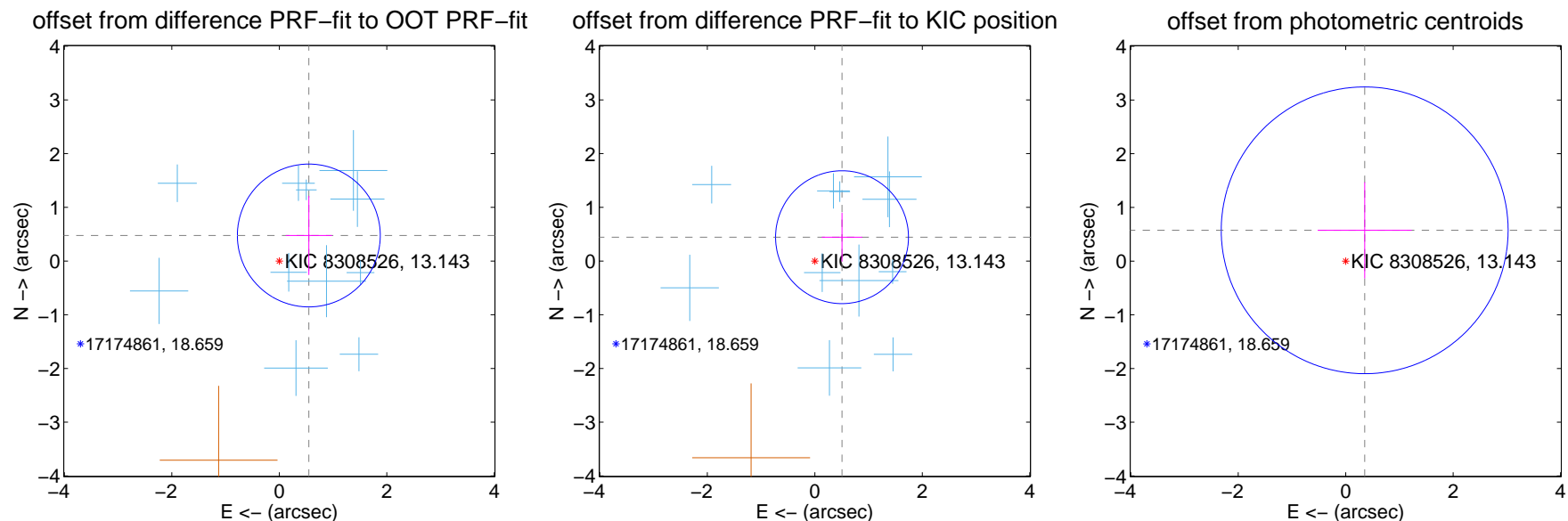
DV Centroid Data

Supplemental centroid analysis for 008308526-01. Kepler magnitude: 13.14. Transit SNR 9.40

There are 11 quarters with good PRF difference image offsets

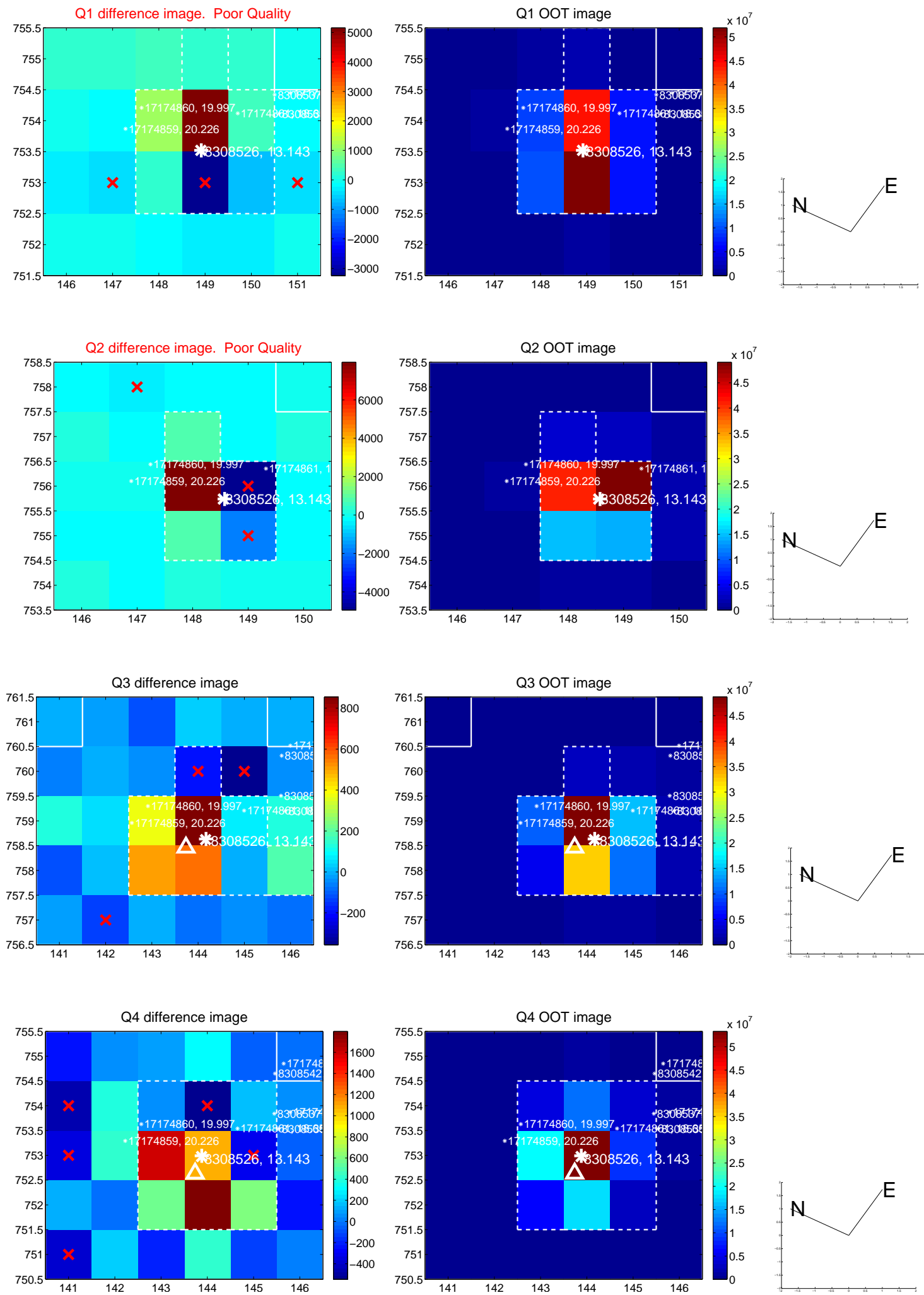
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.727 ± 0.443	1.64	-0.549 ± 0.429	0.475 ± 0.735
PRF-fit source offset from KIC position	0.673 ± 0.412	1.63	-0.506 ± 0.376	0.444 ± 0.455
photometric centroid source offset	0.67 ± 0.89	0.76	-0.35 ± 0.87	0.57 ± 0.90

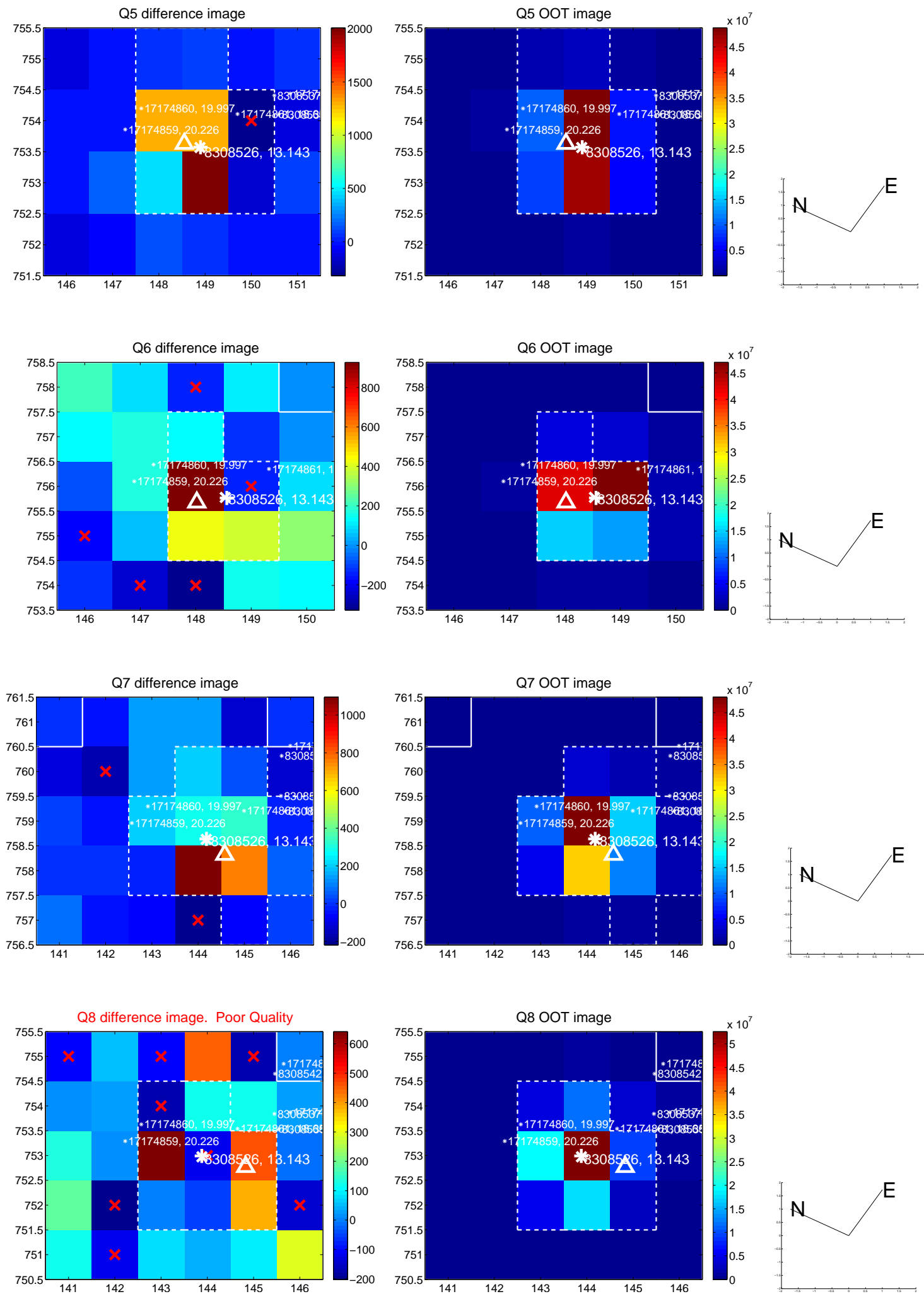


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

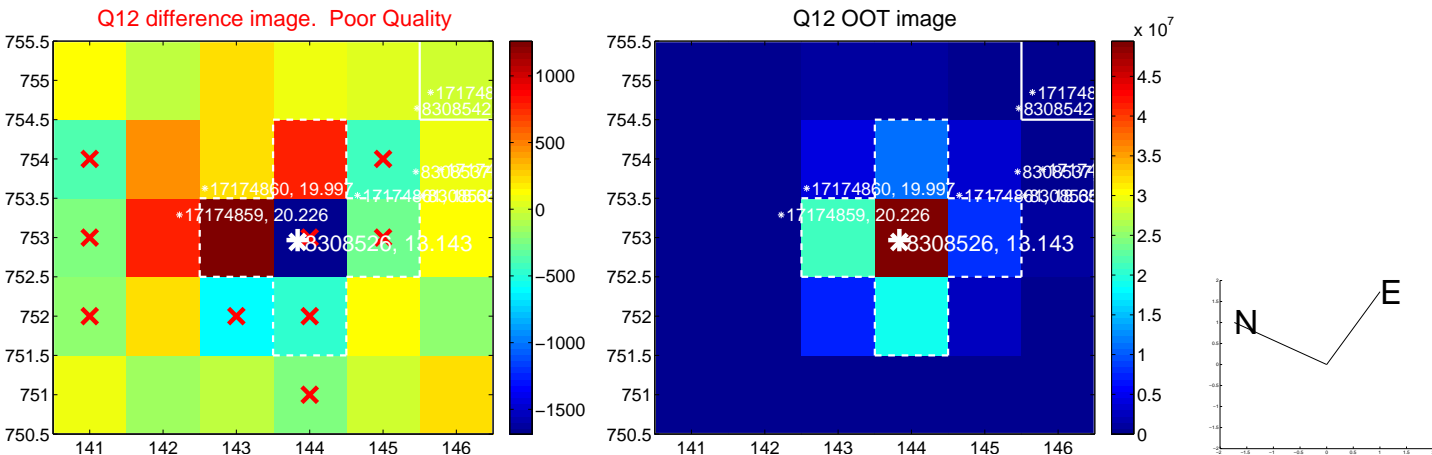
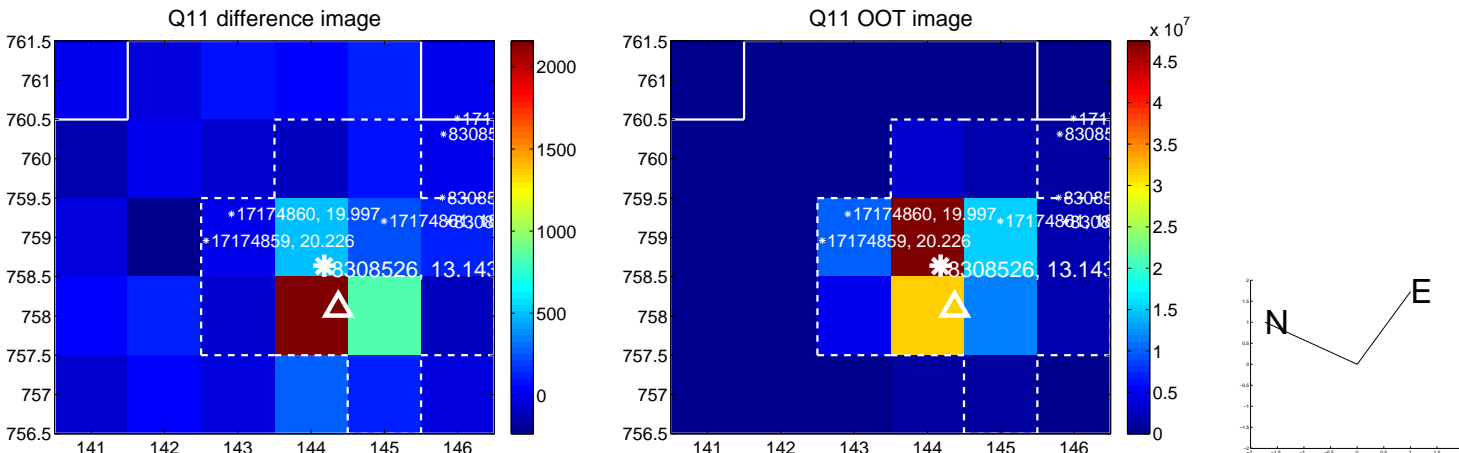
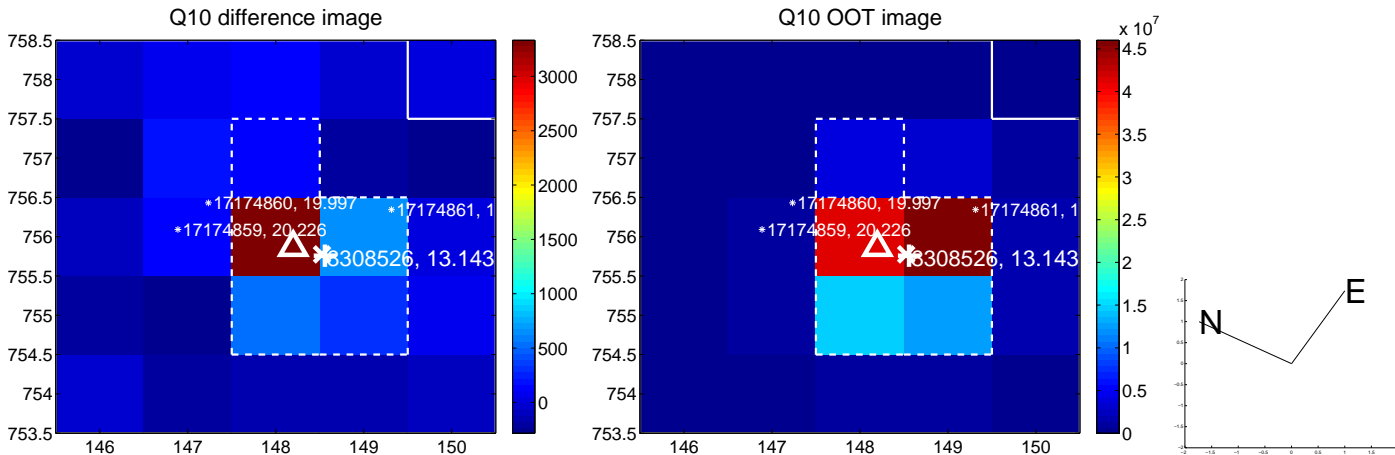
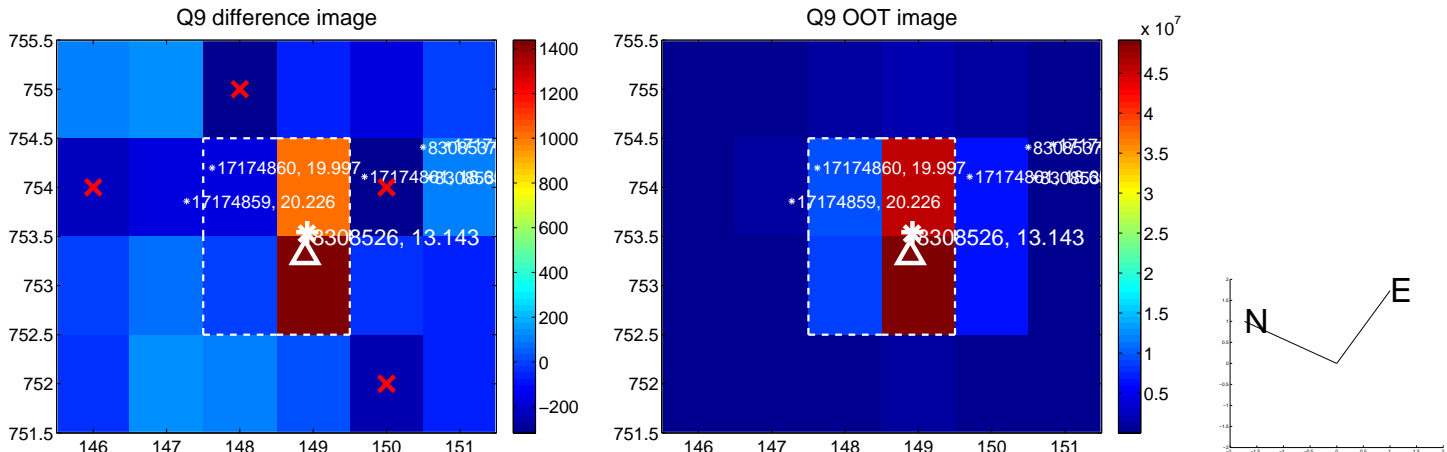
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



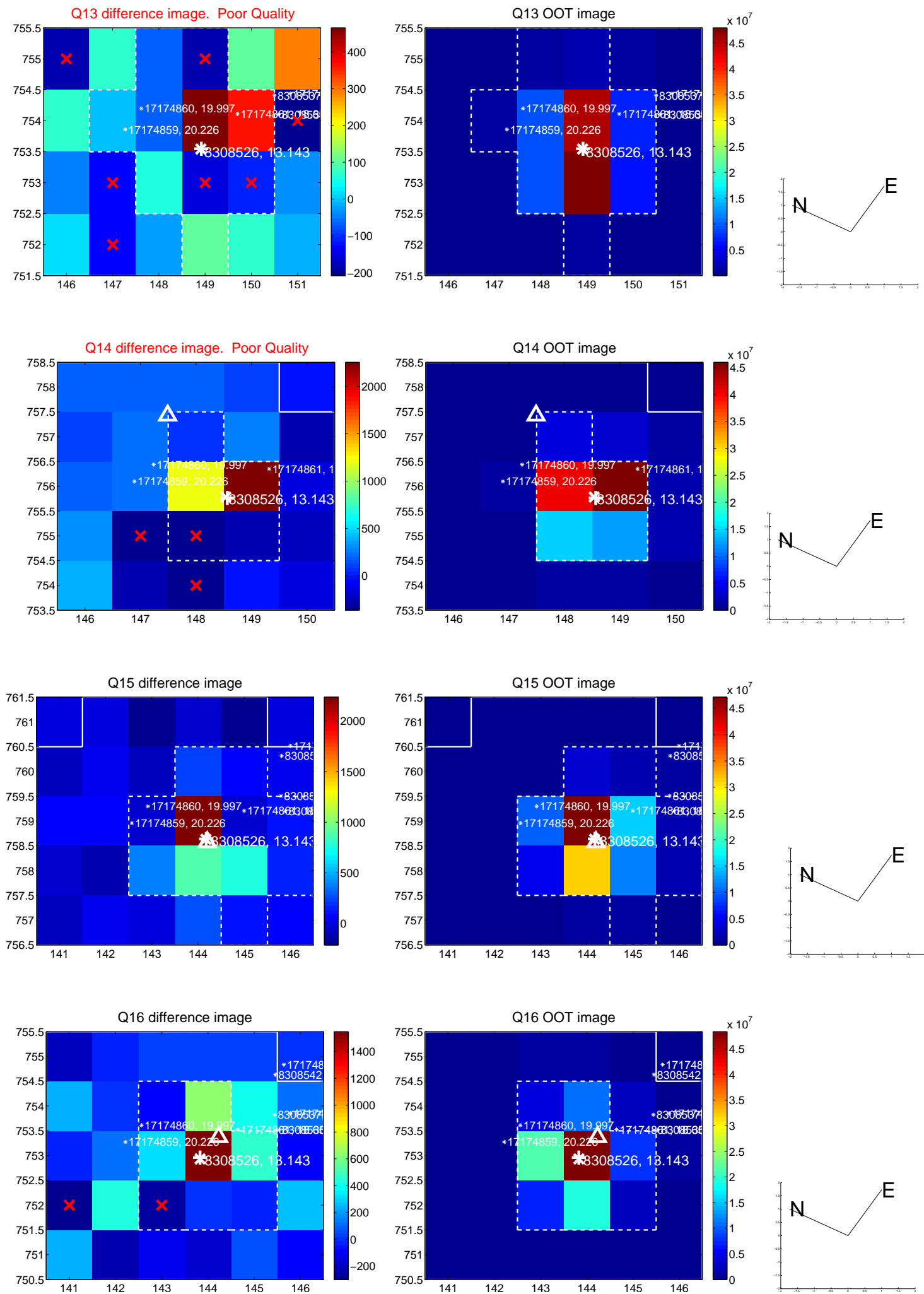
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



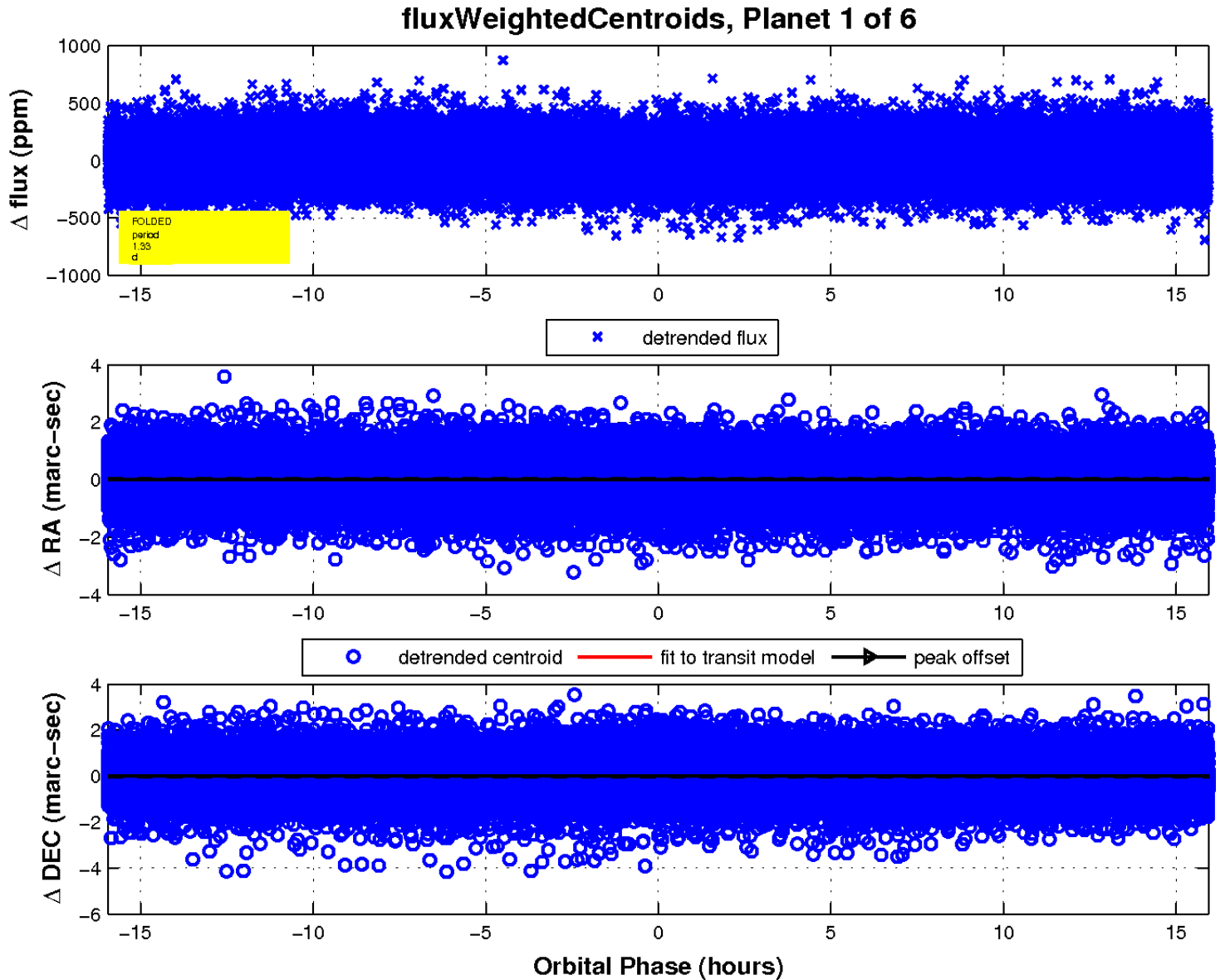
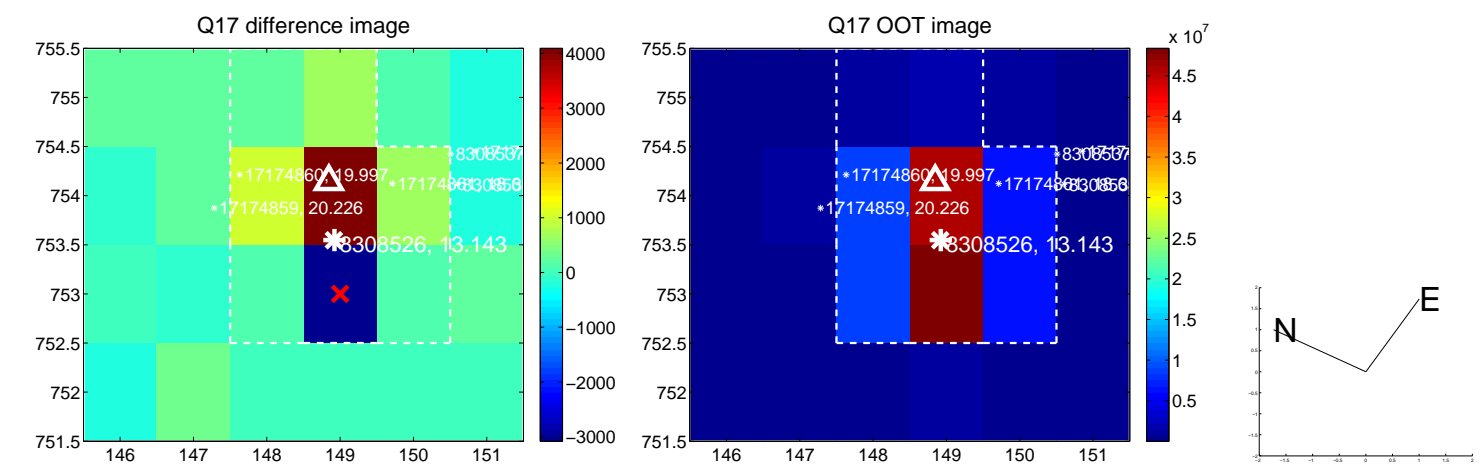
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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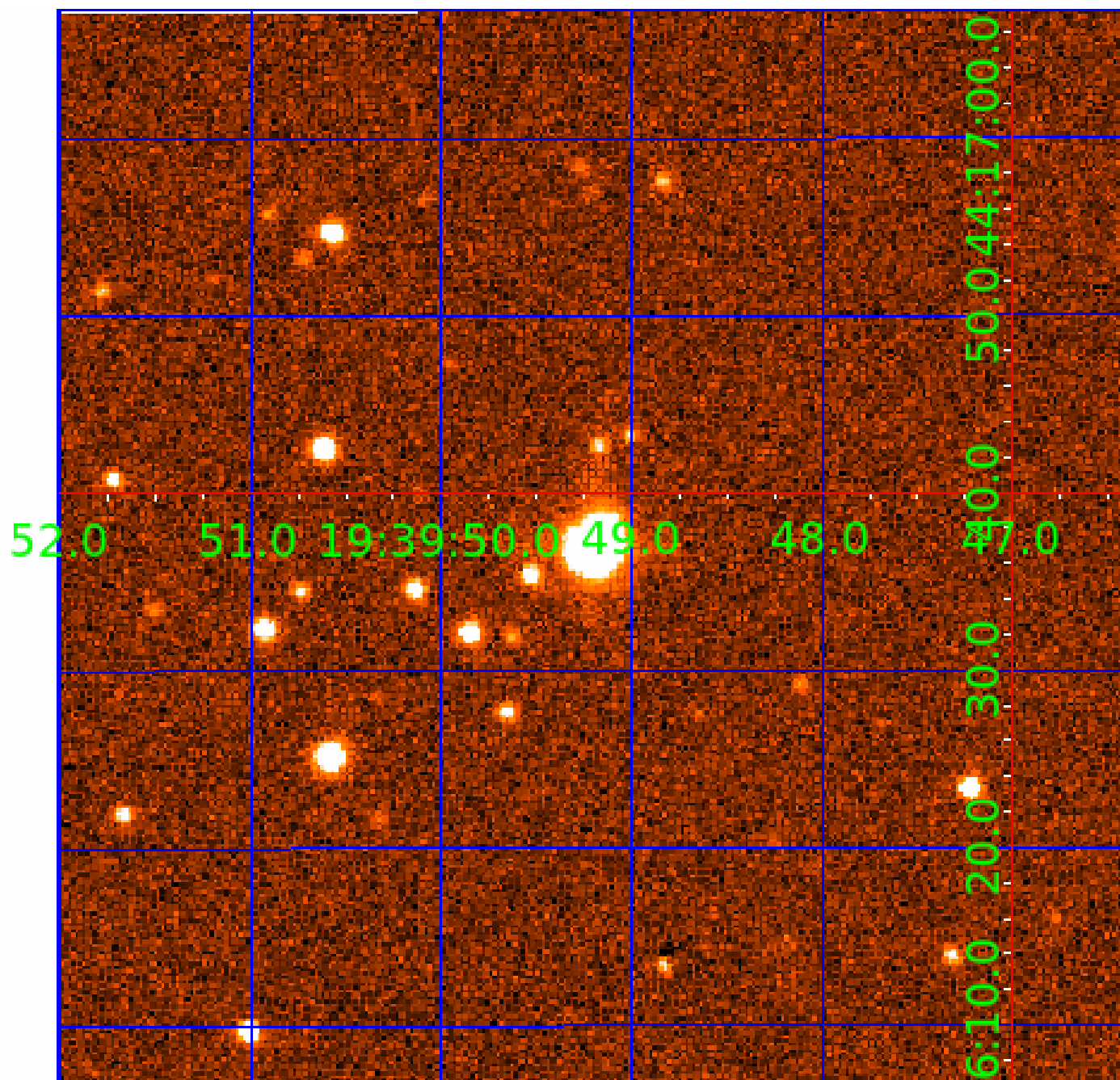


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008308526

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})
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Robovetter Results

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008308526-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
008308526-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
008308526-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008308526-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS—HALO_GHOST
008308526-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT

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

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

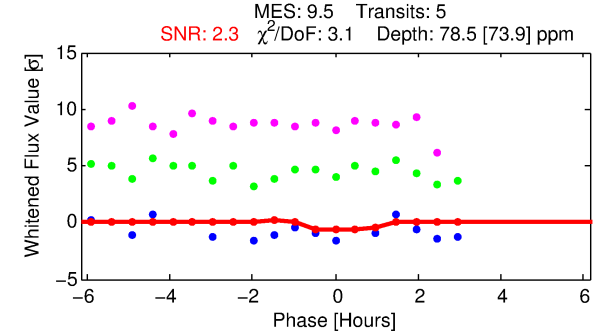
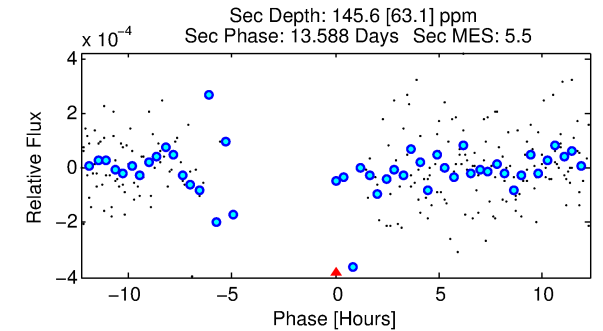
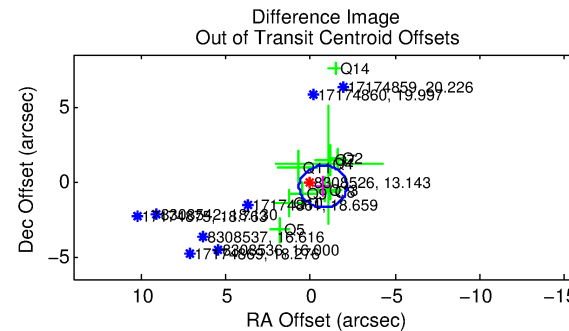
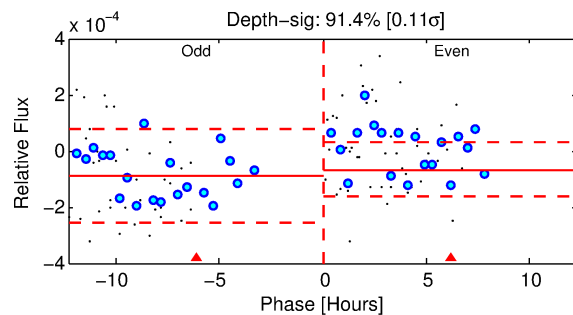
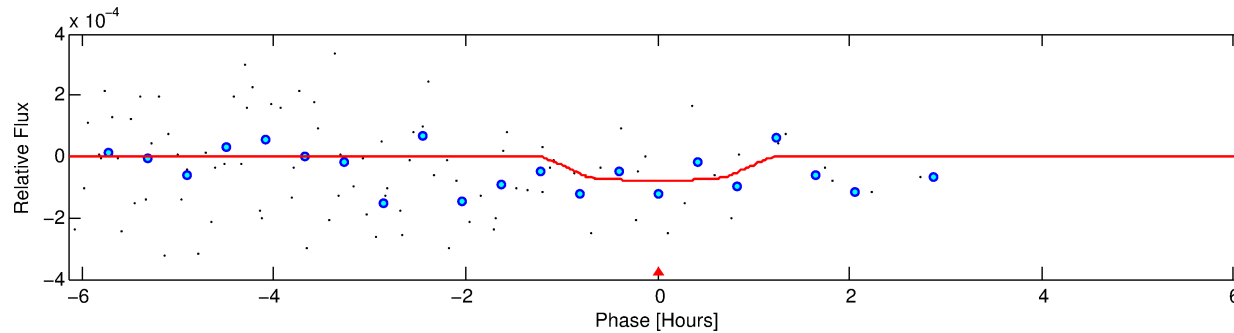
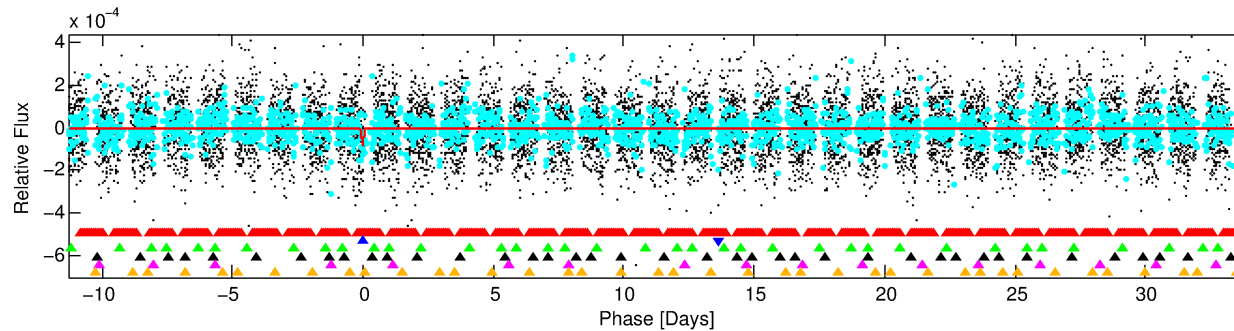
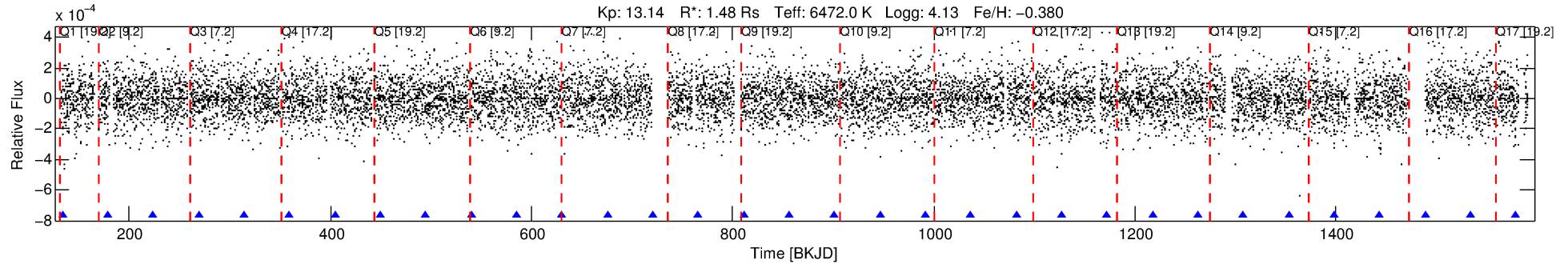
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008308526-02

No Significant Match Found

DV One-Page Summary

KIC: 8308526 Candidate: 2 of 6 Period: 45.163 d



DV Fit Results:

Period = 45.16252 [0.00826] d
Epoch = 133.6302 [0.2507] BKJD
Rp/R* = 0.0095 [0.0438]
a/R* = 76.86 [2077.60]
b = 0.90 [5.72]
Seff = 52.99 [19.35]
Teq = 688 [63] K
Rp = 1.53 [7.08] Re
a = 0.2549 [0.0568] AU
Ag = 2210.51 [20415.07] [0.11 σ]
Teffp = 7293 [16830] K [0.39 σ]

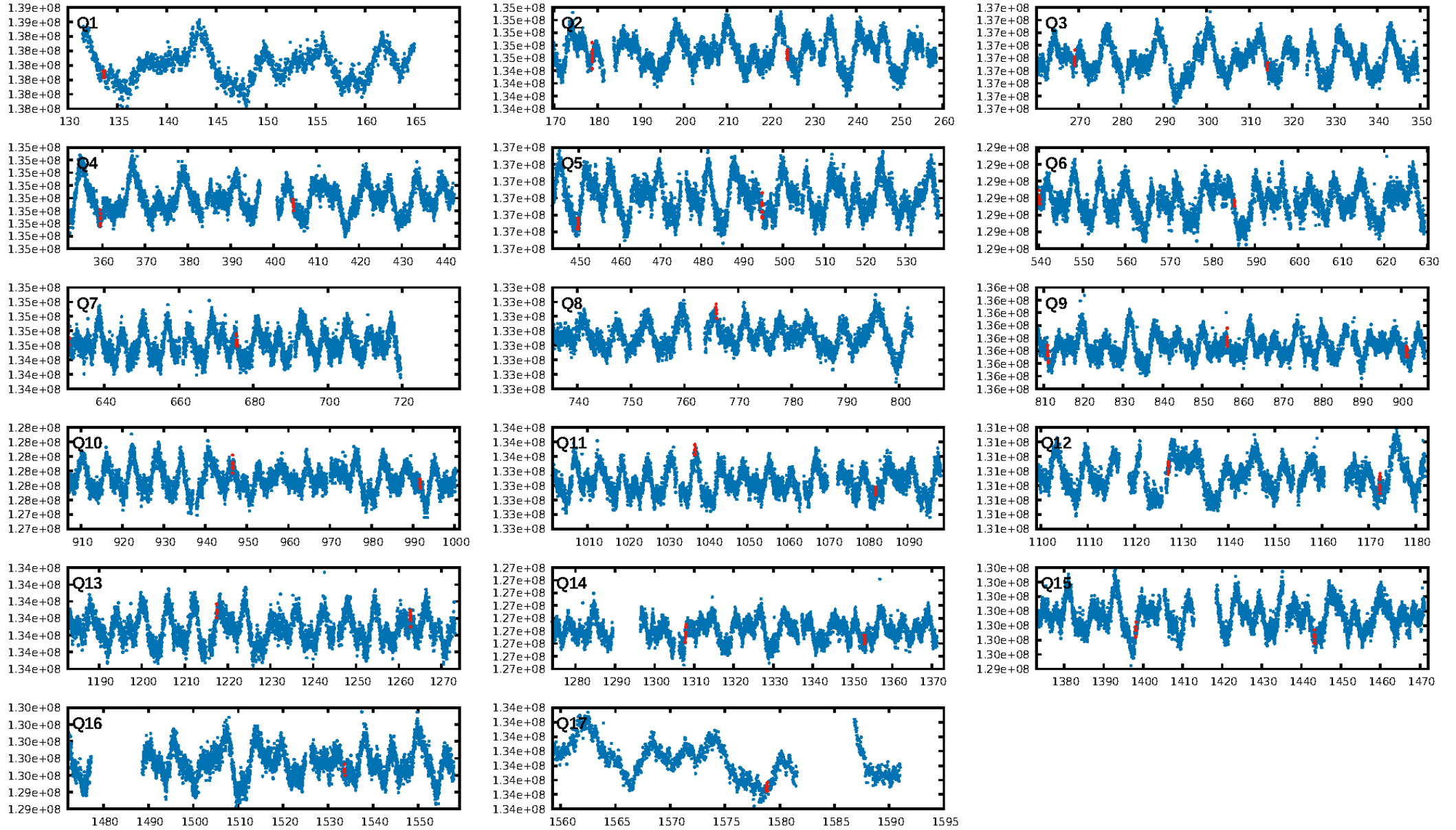
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [19.68 σ]
LongPeriod-sig: 100.0% [208.16 σ]
ModelChiSquare2-sig: 1.5%
ModelChiSquareGof-sig: 52.3%
Bootstrap-pfa: 1.26e-20
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 6.136
Centroid-sig: 0.0%
Centroid-so: 5.889 arcsec [2.87 σ]
OotOffset-rm: 0.796 arcsec [1.71 σ]
KicOffset-rm: 0.770 arcsec [1.64 σ]
OotOffset-st: 3/2/2/3 [10]
KicOffset-st: 3/2/2/3 [10]
DiffImageQuality-fgm: 0.00 [0/10]
DiffImageOverlap-fno: 0.19 [3/16]

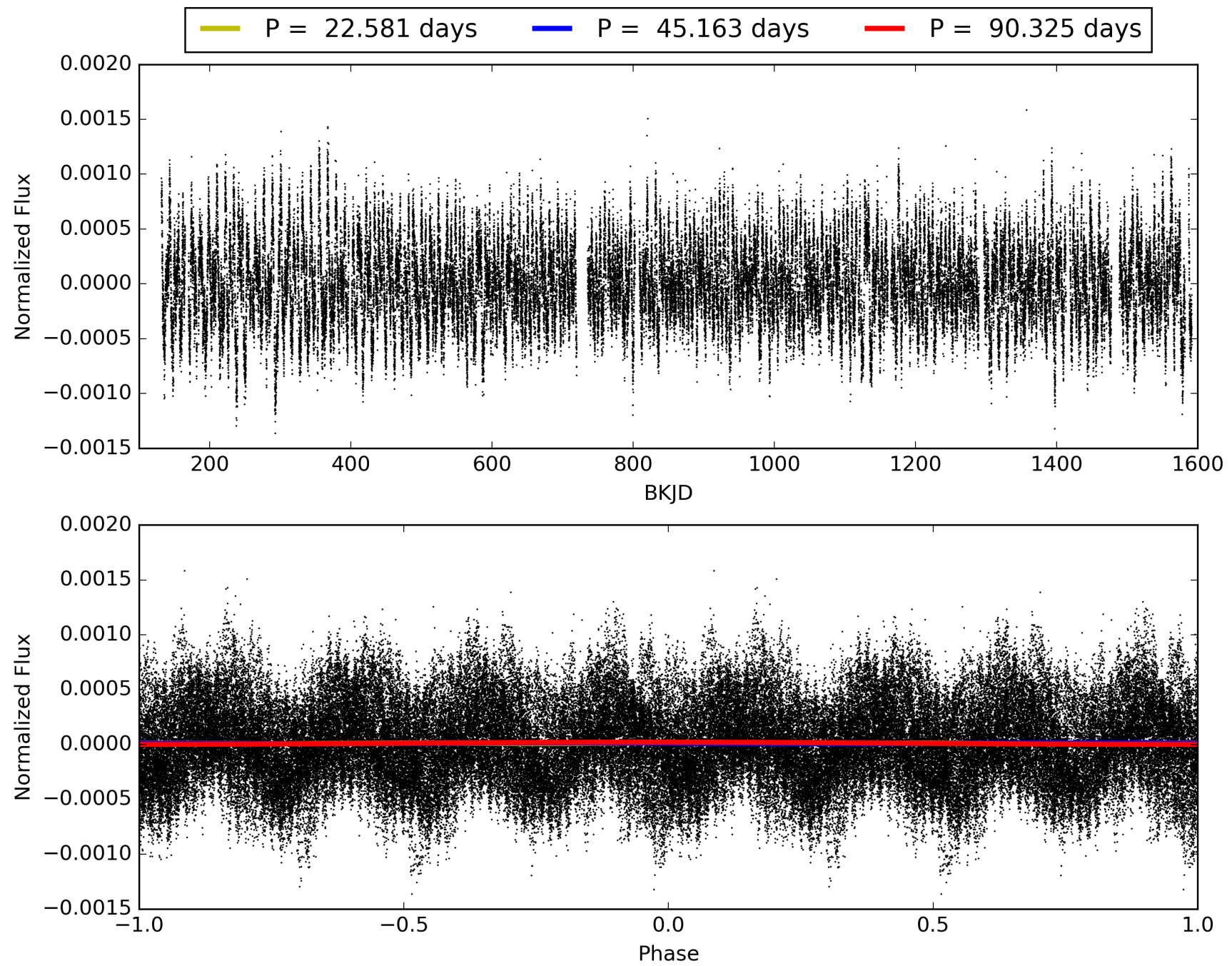
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 16:58:15 Z

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

TCE 008308526-02, PDC Light Curves

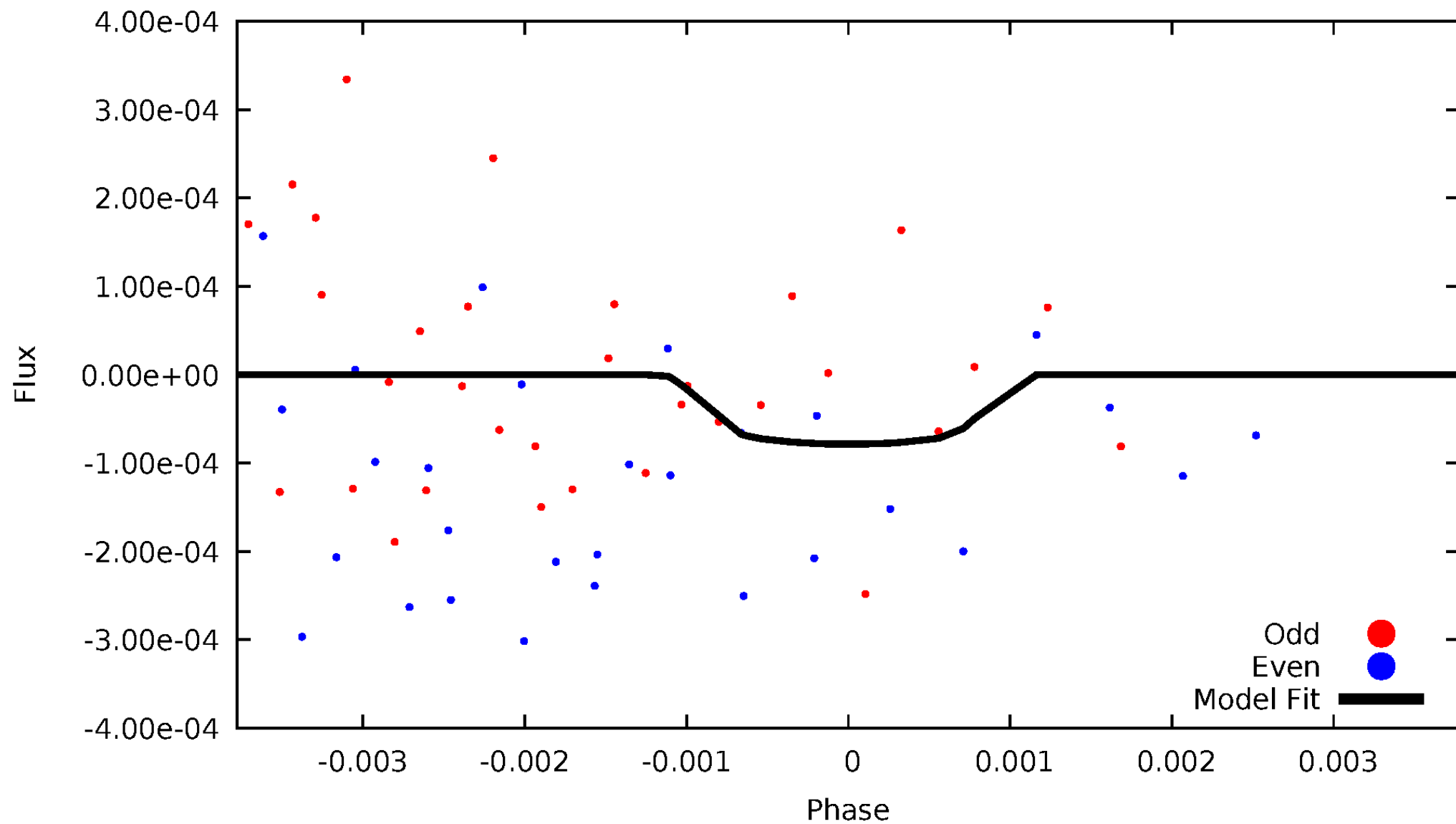


TCE 008308526-02



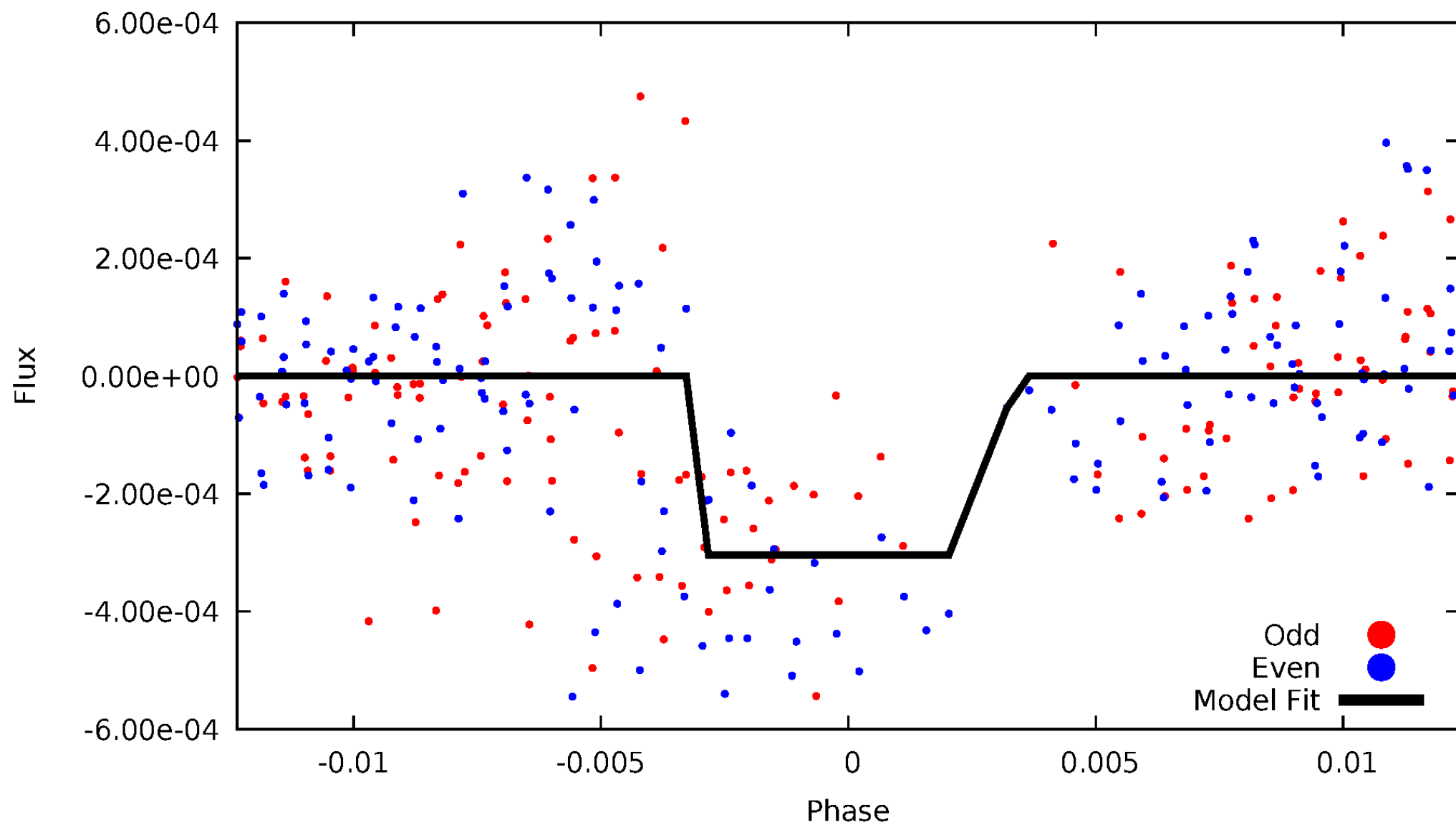
DV Odd/Even

TCE 008308526-02



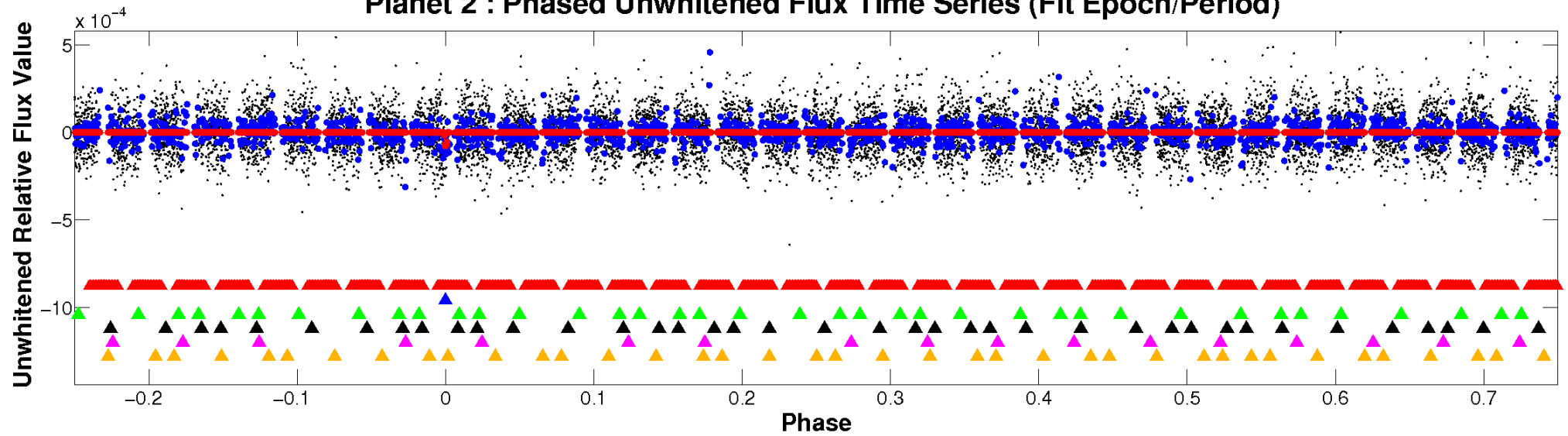
ALT Odd/Even

TCE 008308526-02

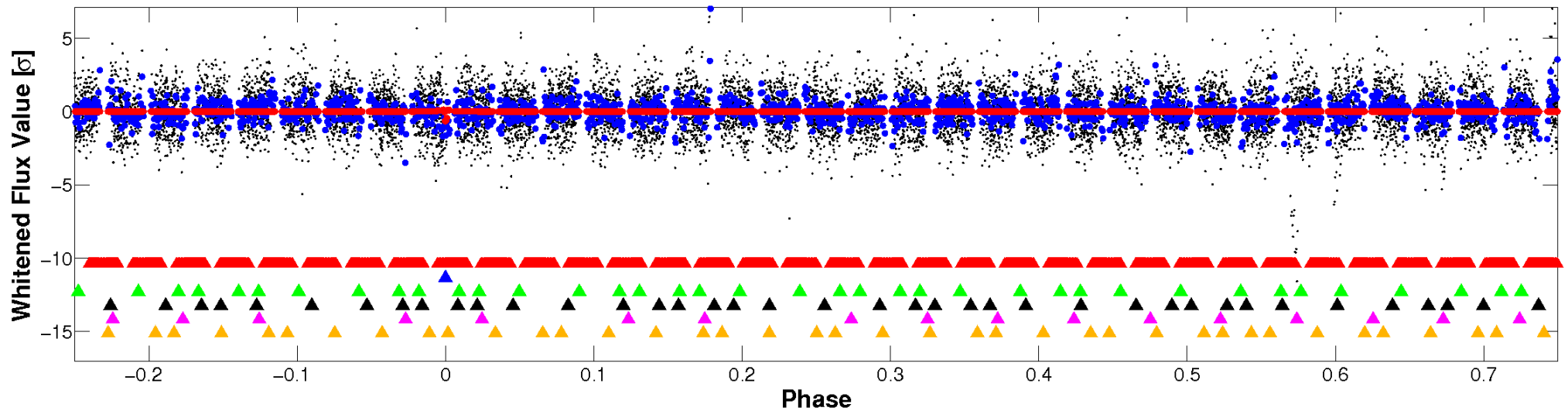


Non-Whitened Vs. Whitened Light Curve

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

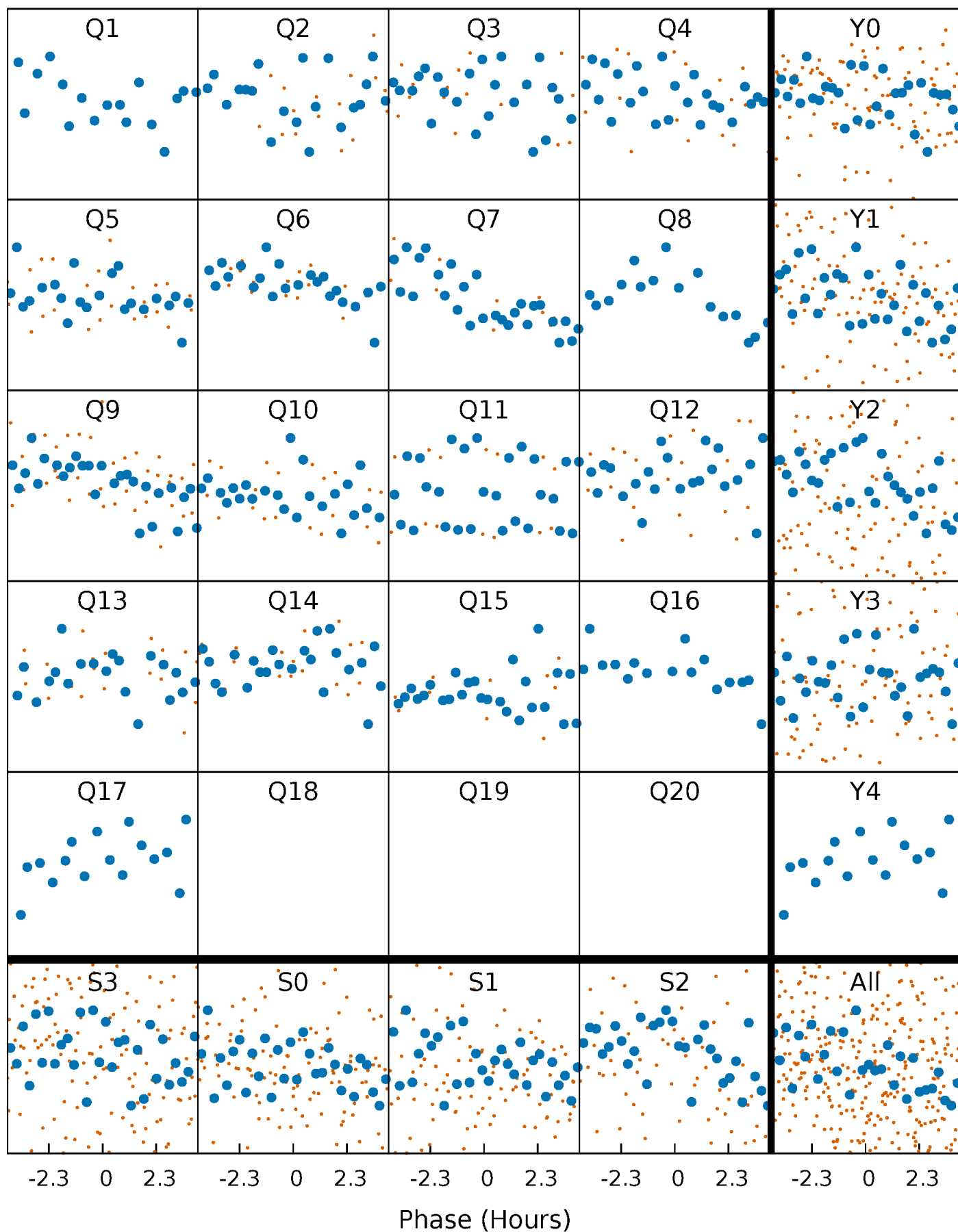


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



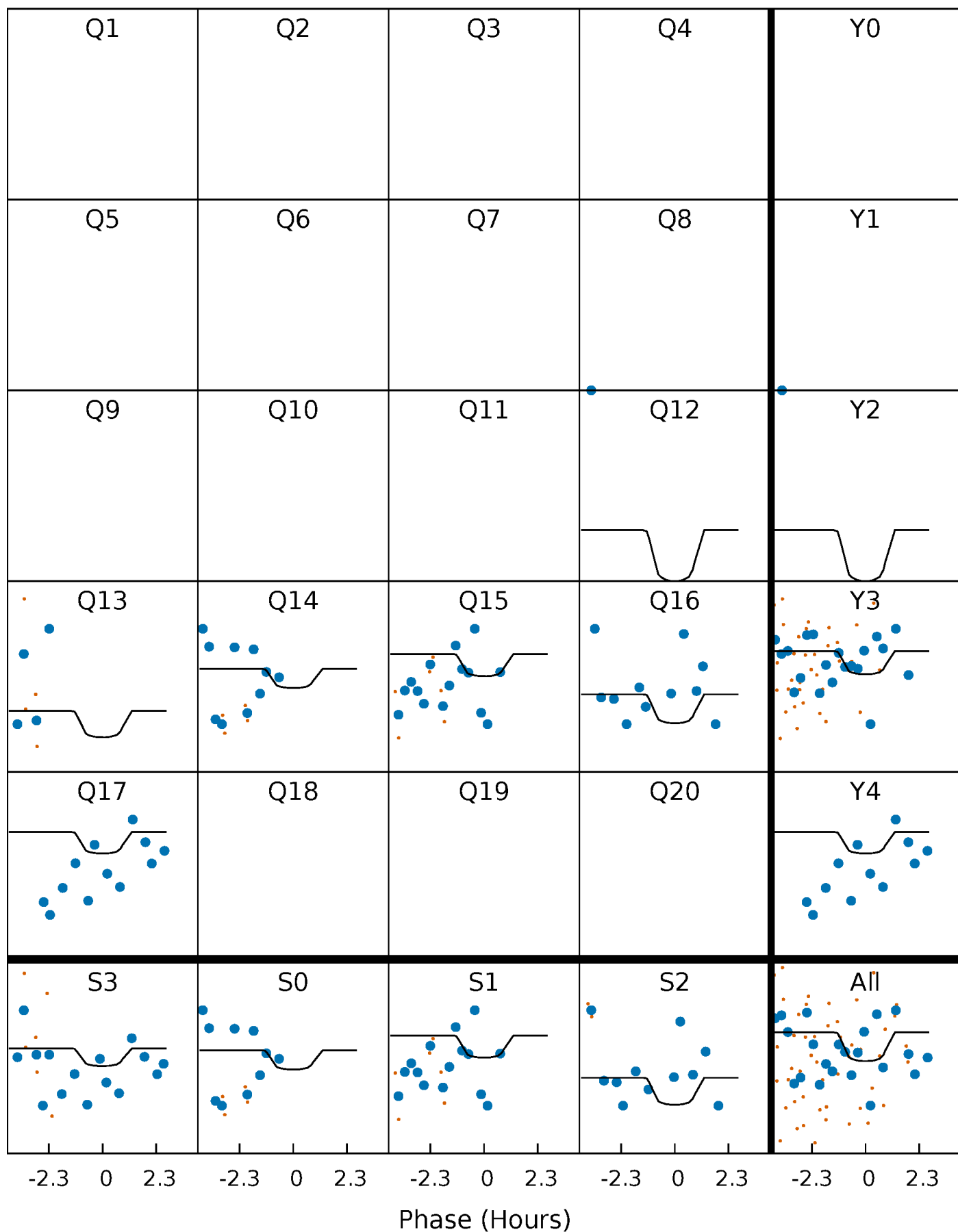
PDC Quarter-Phased Transit Curves

TCE 008308526-02 P= 45.162525 Days $T_0=133.630202$ (BKJD)



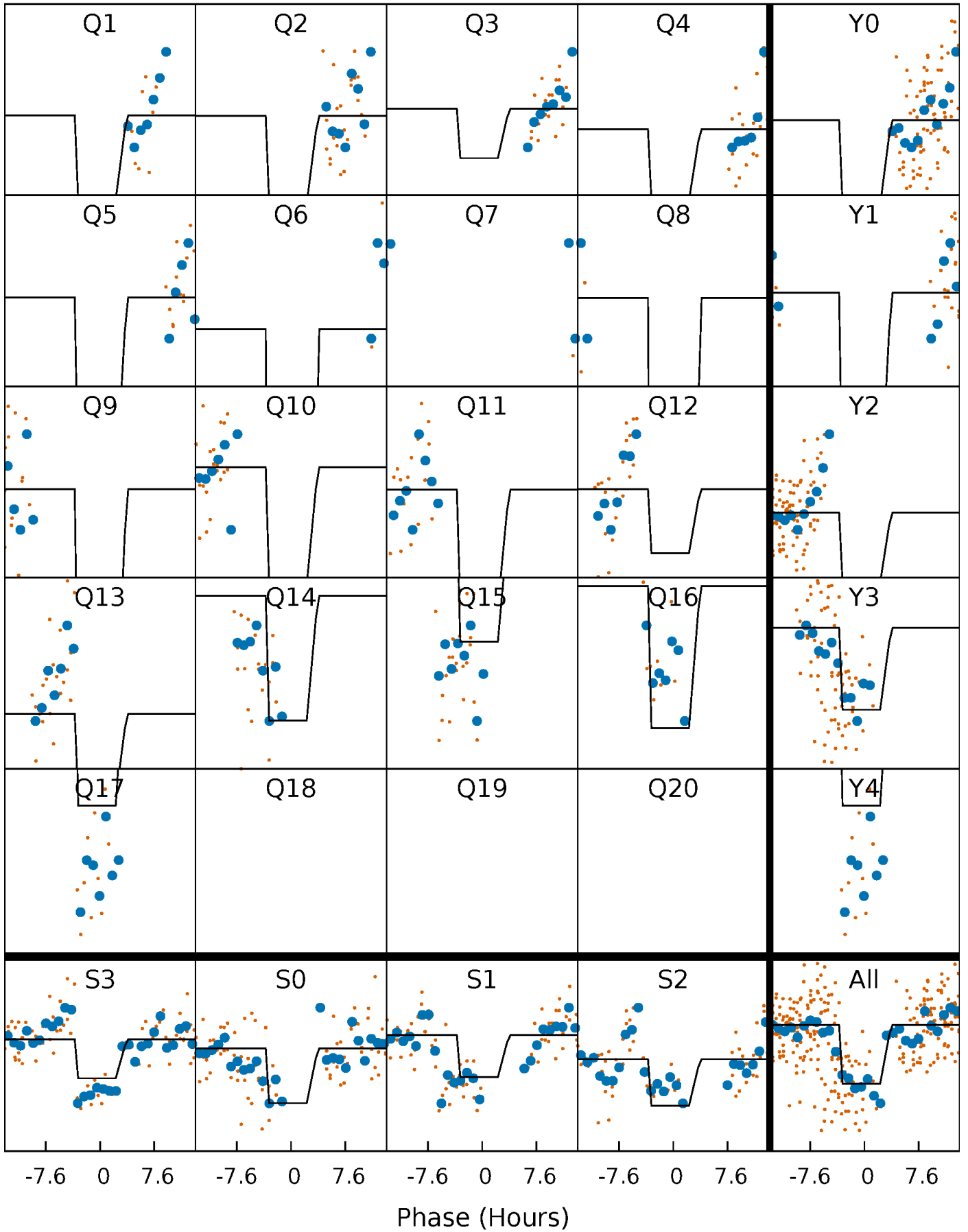
DV Quarter-Phased Transit Curves

TCE 008308526-02 P= 45.162525 Days $T_0=133.630202$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

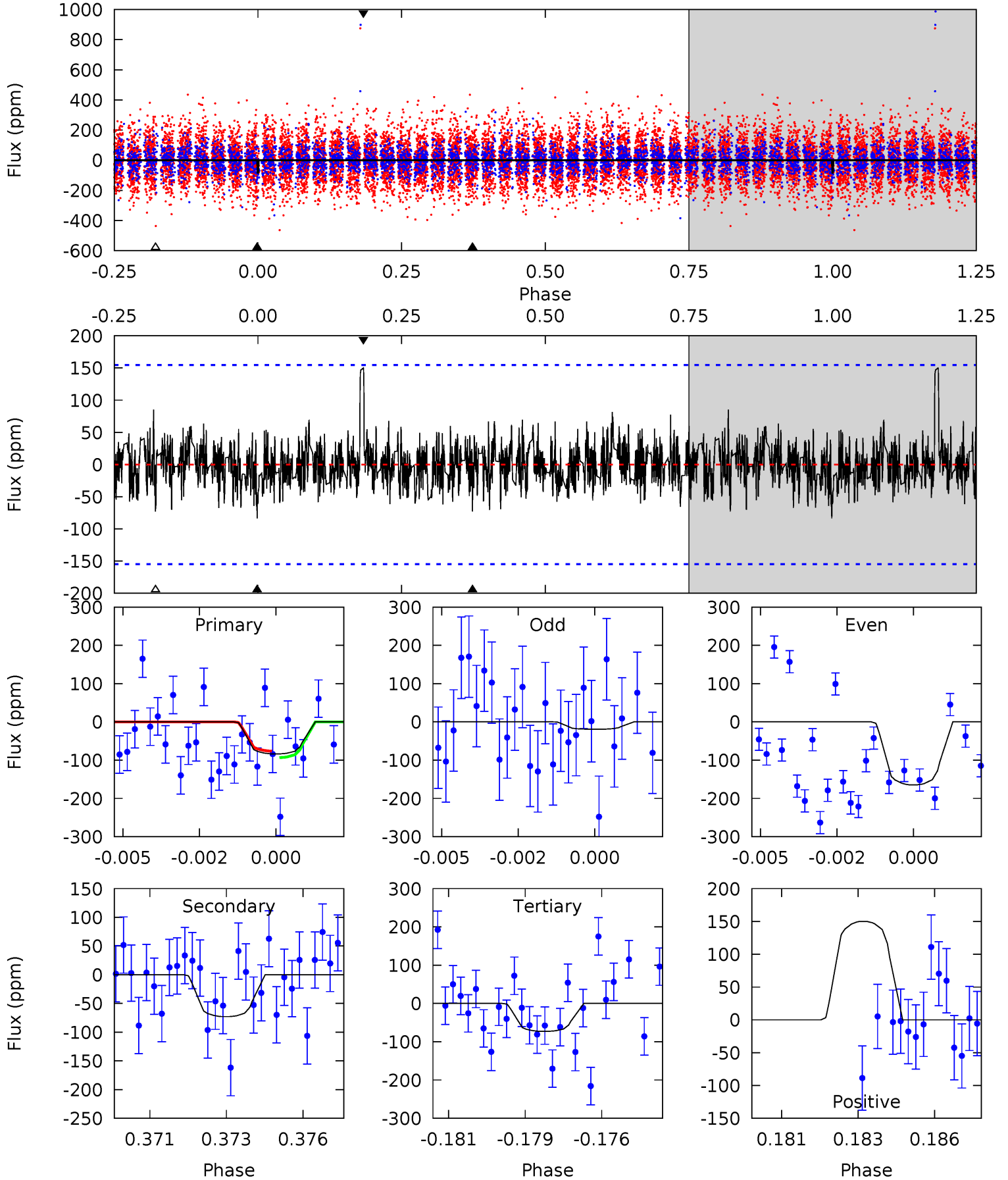
TCE 008308526-02 P= 45.158576 Days $T_0=133.778725$ (BKJD)



DV Model-Shift Uniqueness Test

008308526-02, P = 45.162525 Days, E = 88.467677 Days

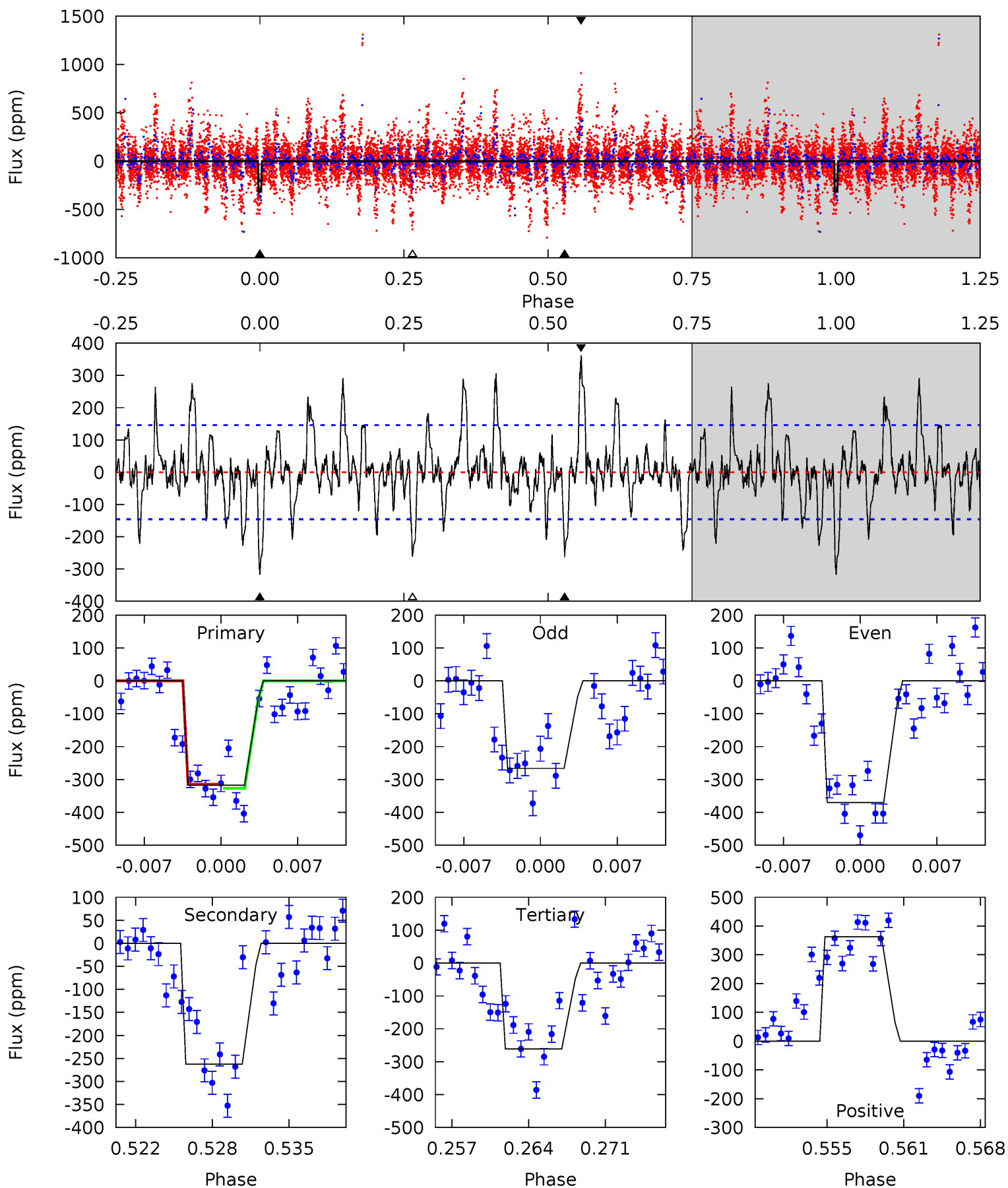
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.87	2.50	2.50	5.15	5.30	3.05	0.84	0.37	-2.27	0.00	-2.64	2.41	0.94	0.64	0.28



Alt Model-Shift Uniqueness Test

008308526-02, P = 45.158576 Days, E = 88.620149 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.1	9.19	9.13	12.7	5.11	2.72	2.62	1.97	-1.58	0.05	-3.49	1.79	0.96	0.53	0.18



Stellar Parameters For KIC 008308526

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6472^{+146}_{-194}	$4.132^{+0.198}_{-0.132}$	$-0.380^{+0.300}_{-0.300}$	$1.480^{+0.296}_{-0.362}$	$1.081^{+0.162}_{-0.133}$	$0.470^{+0.514}_{-0.184}$
	+2%/-3%	+5%/-3%	+79%/-79%	+20%/-24%	+15%/-12%	+109%/-39%
Source	PHO1	FLK73	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 008308526-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-73 ± 29	$5.61^{+5.93}_{-3.96}$	953^{+62}_{-64}	3612^{+2182}_{-705}	79^{+882}_{-61}
Alt.	-263 ± 29	$6.03^{+5.73}_{-4.04}$	950^{+57}_{-59}	4394^{+3009}_{-909}	255^{+2170}_{-188}

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 $A_{obs} \gg 1.0$

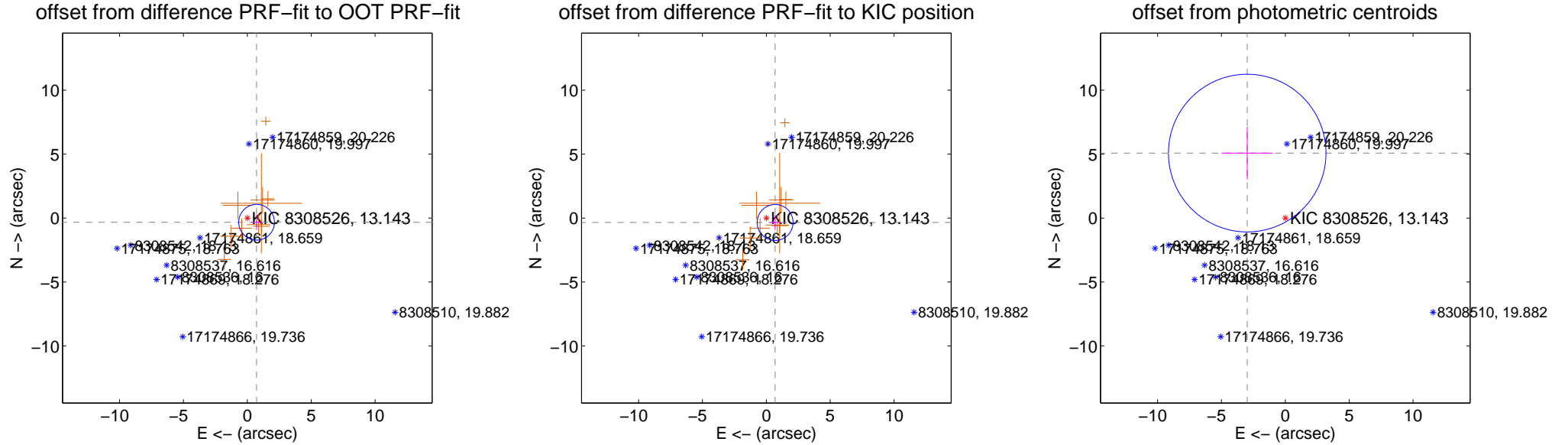
DV Centroid Data

Supplemental centroid analysis for 008308526-02. Kepler magnitude: 13.14. Transit SNR 2.28

There are 0 quarters with good PRF difference image offsets

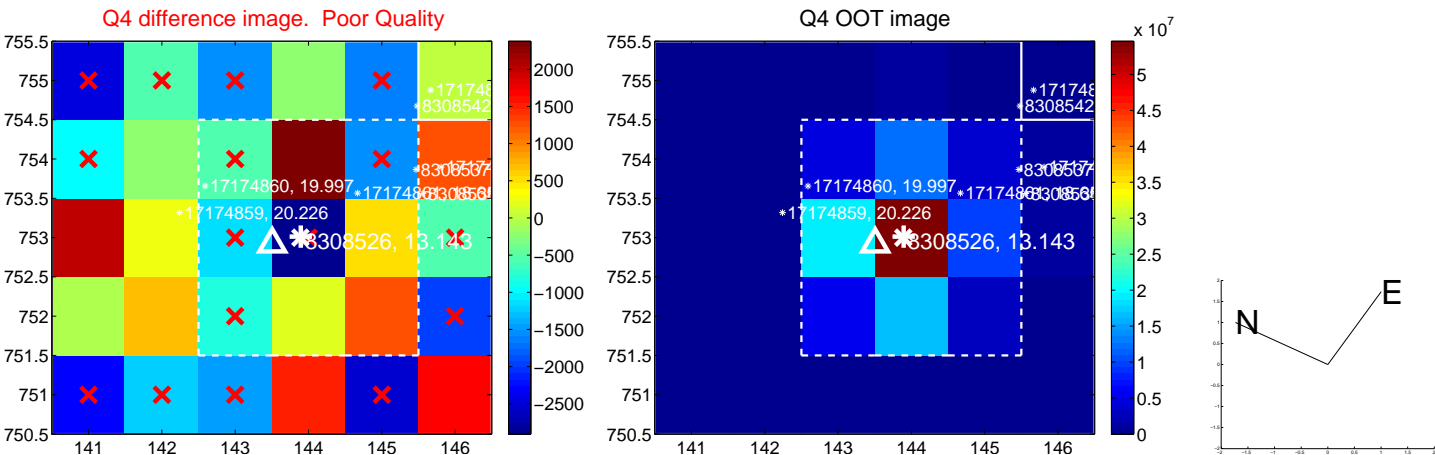
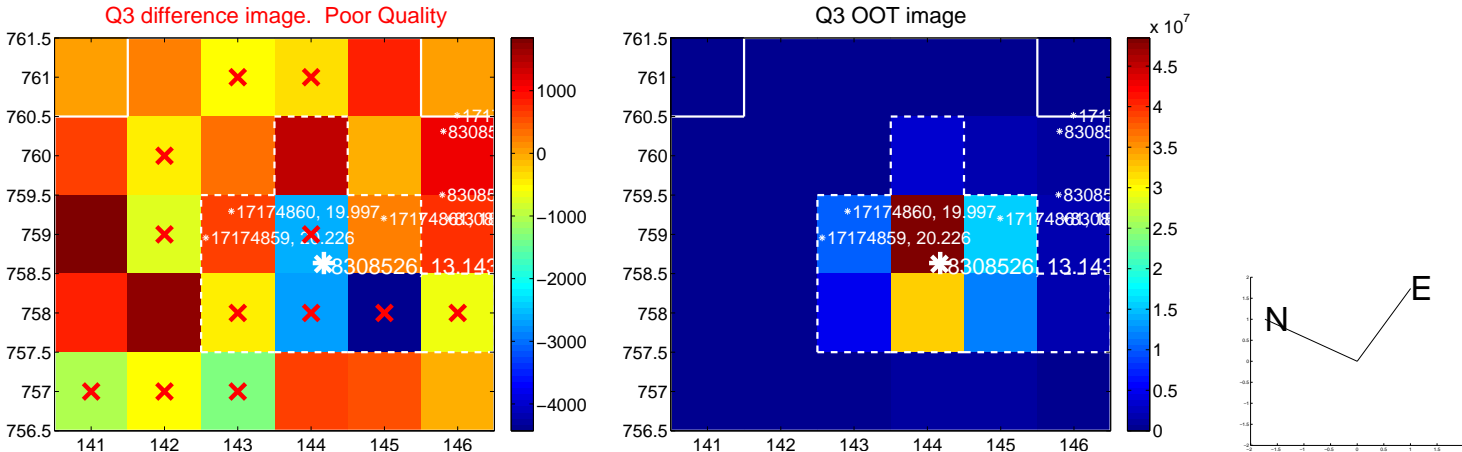
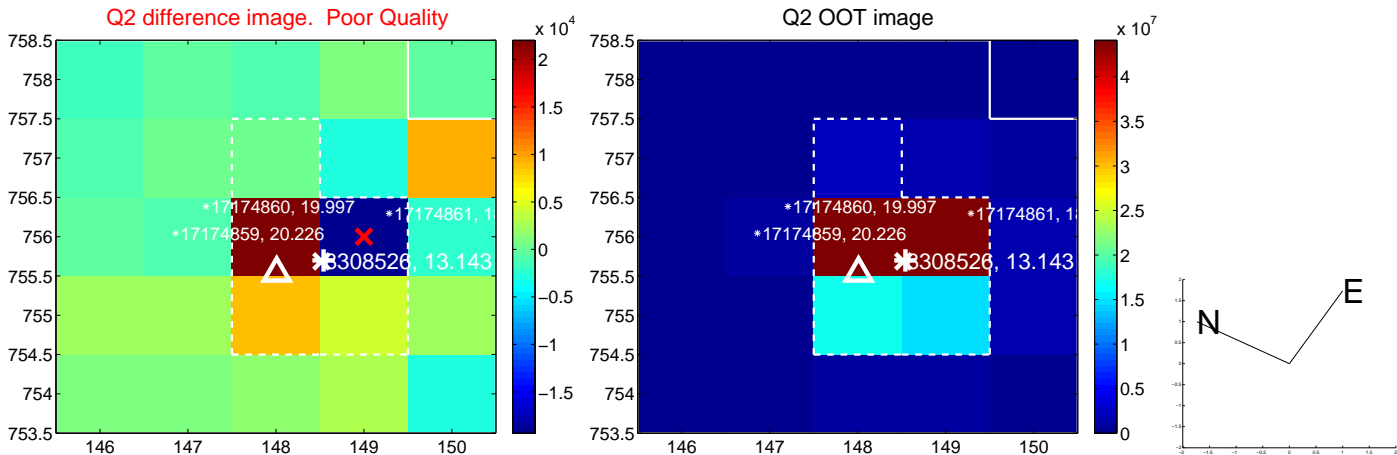
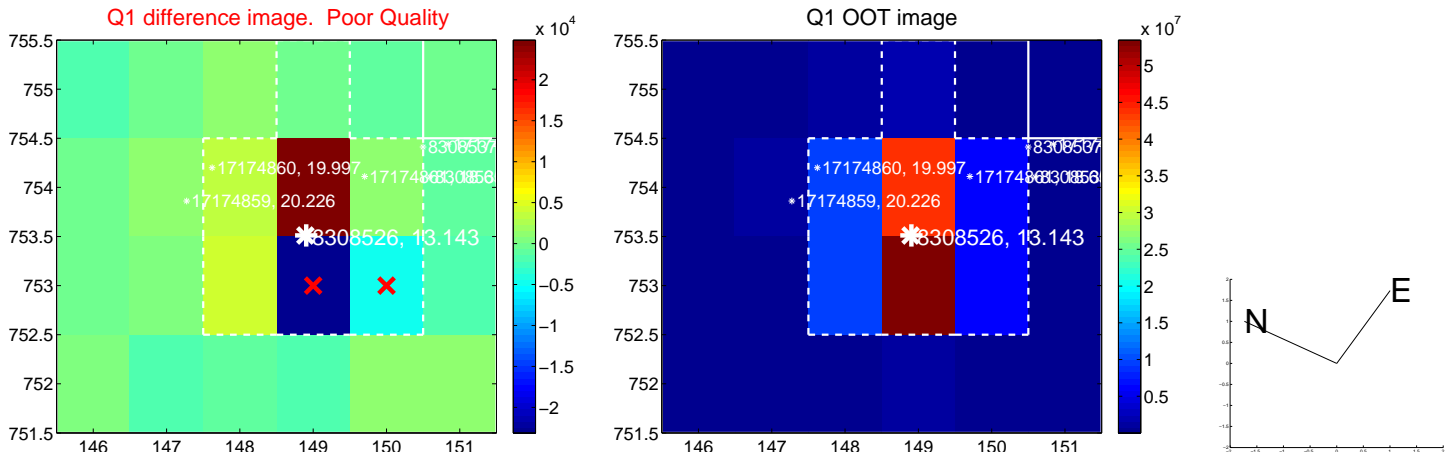
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.796 ± 0.466	1.71	-0.725 ± 0.434	-0.330 ± 0.598
PRF-fit source offset from KIC position	0.770 ± 0.469	1.64	-0.689 ± 0.431	-0.344 ± 0.594
photometric centroid source offset	5.89 ± 2.05	2.87	2.98 ± 2.02	5.08 ± 2.07

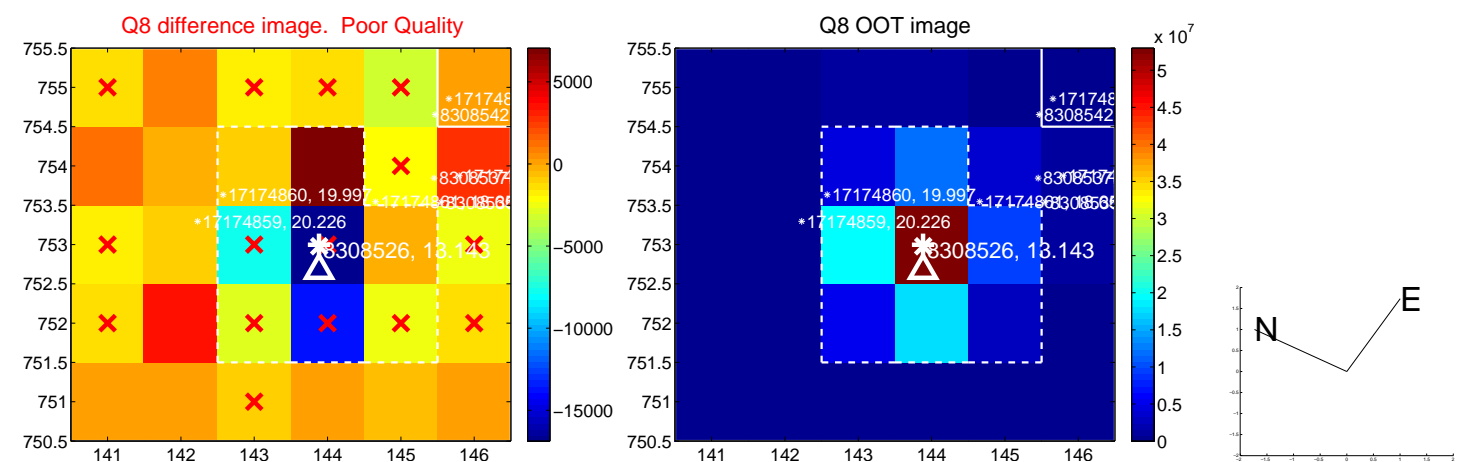
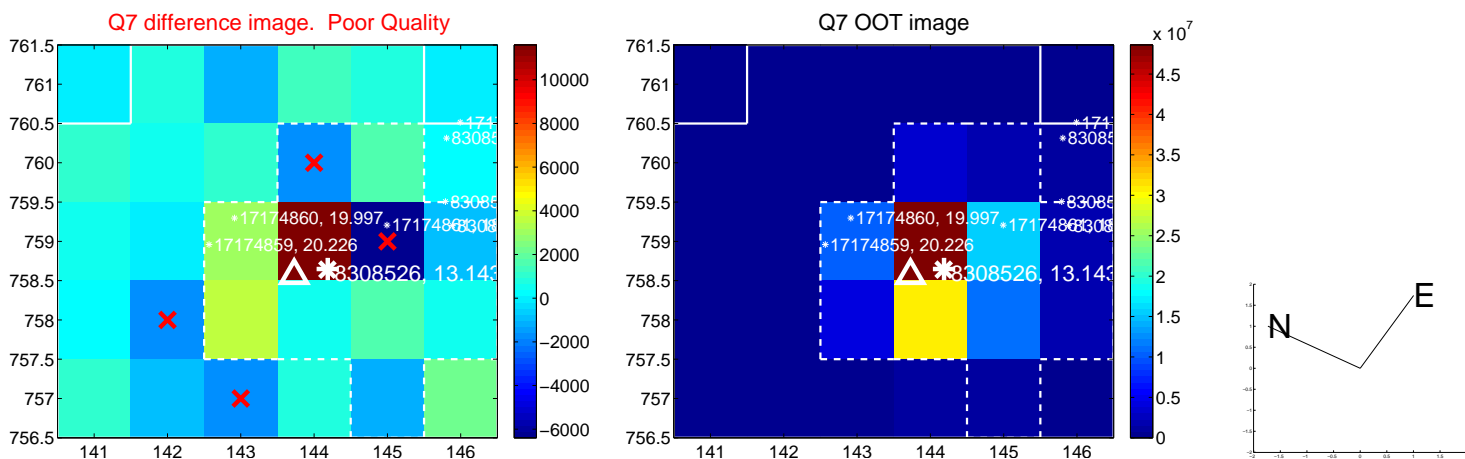
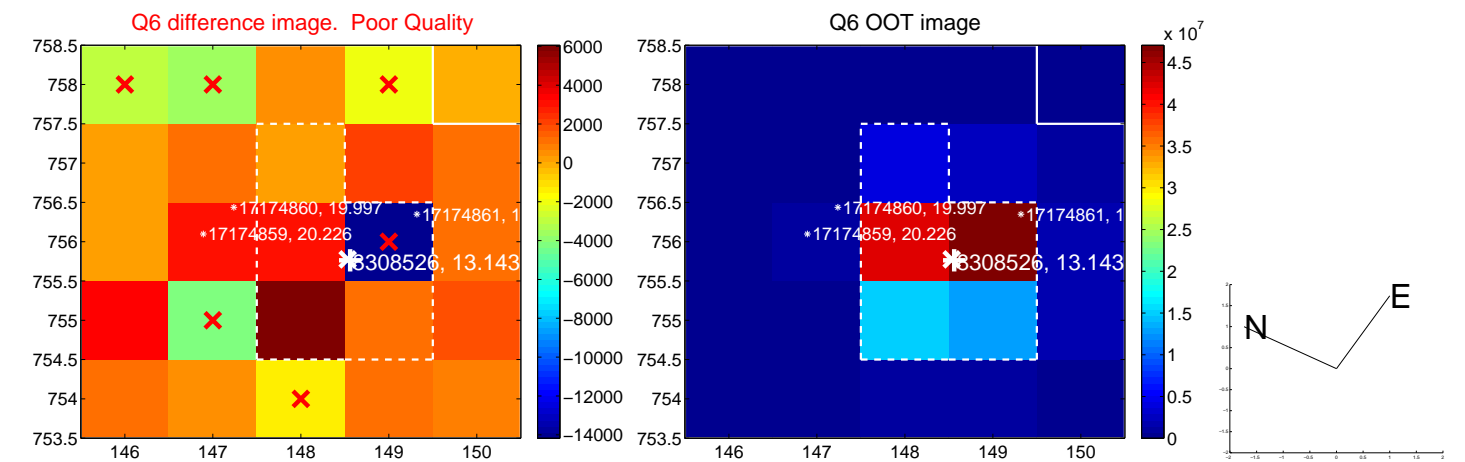
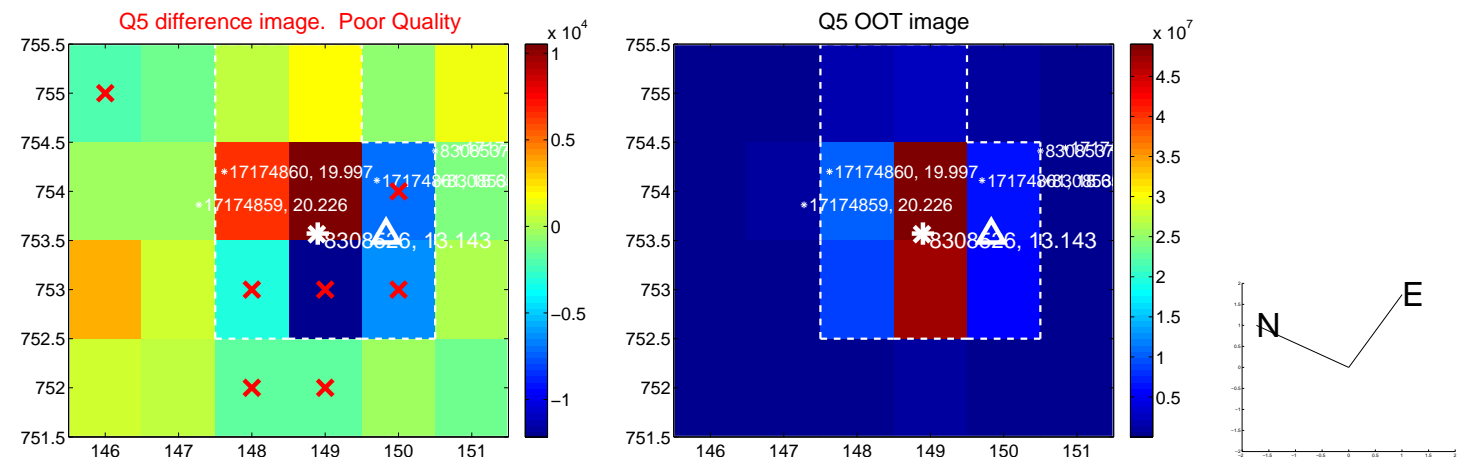


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

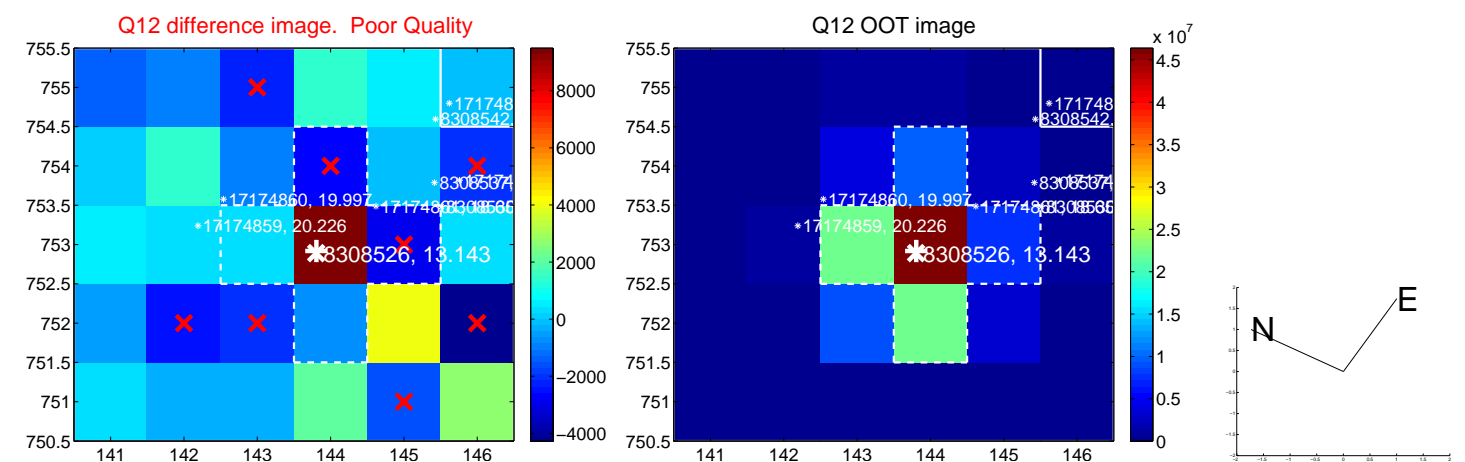
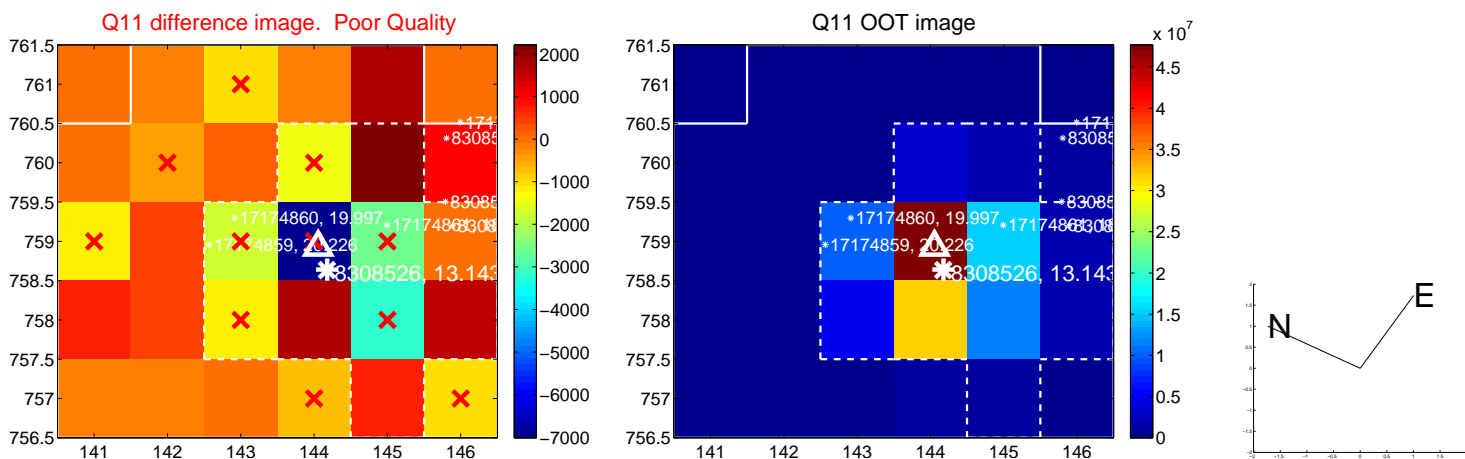
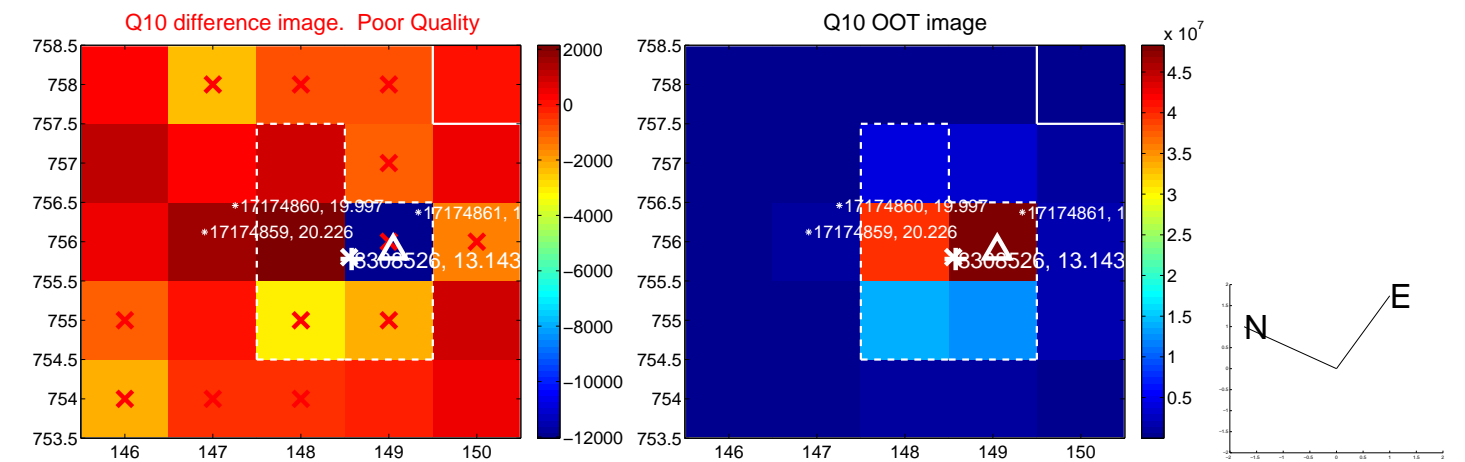
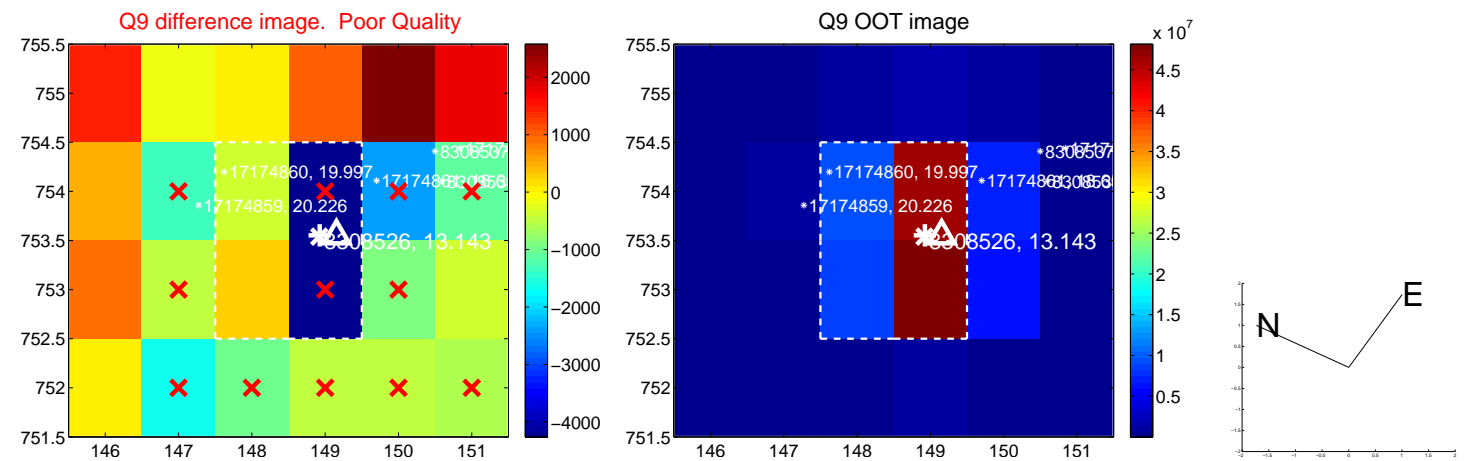
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



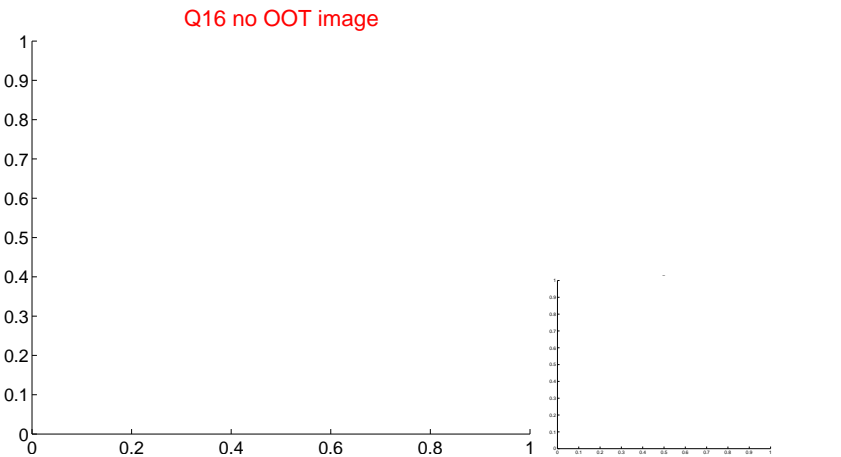
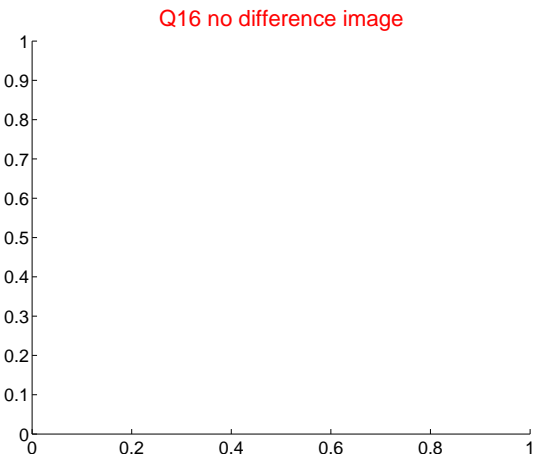
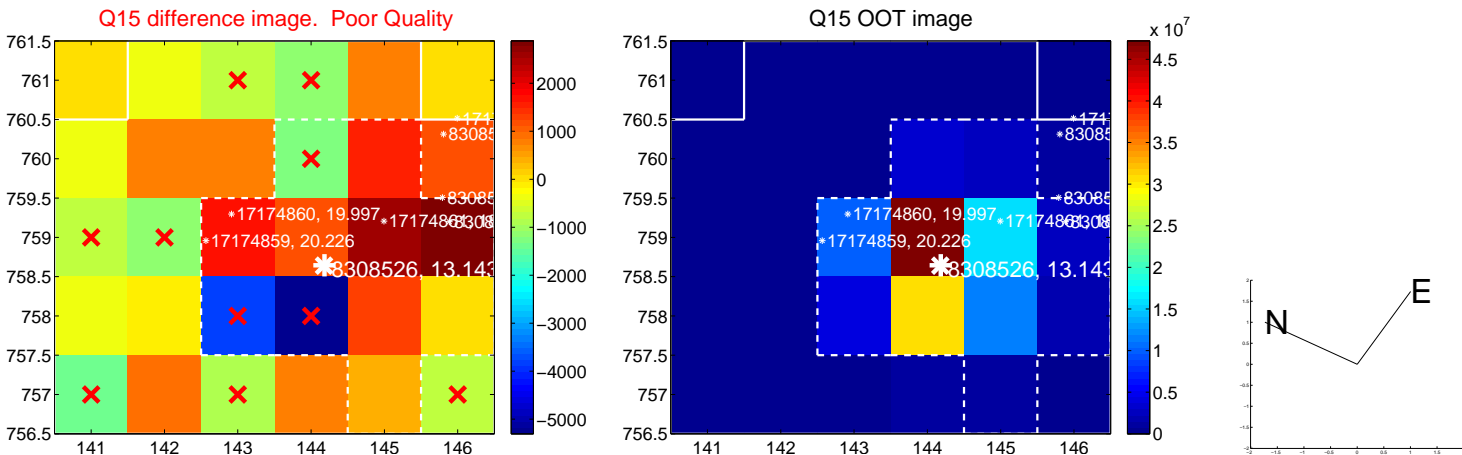
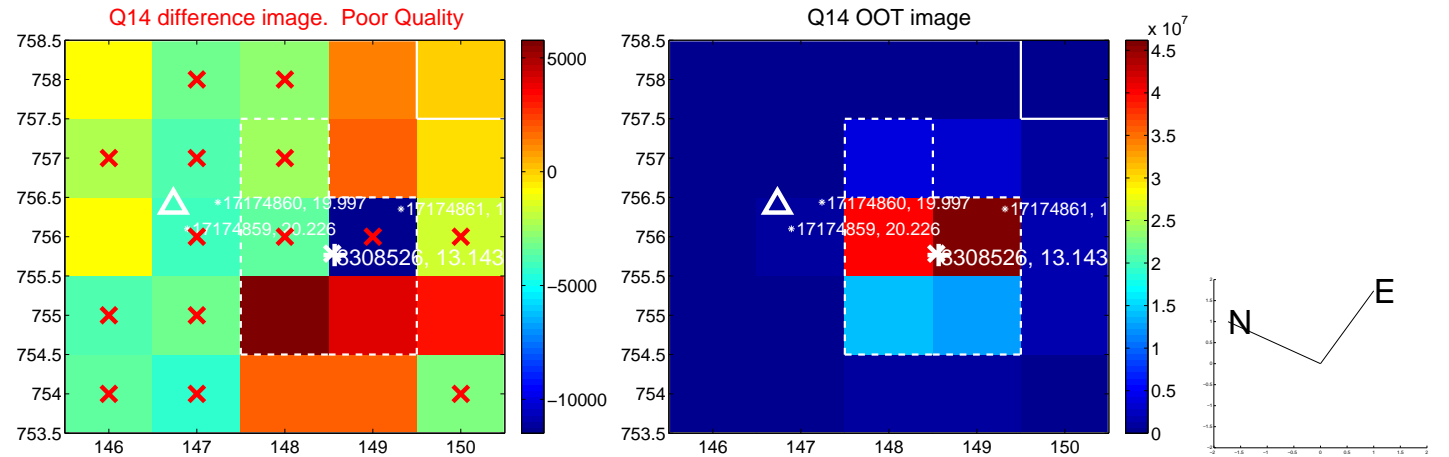
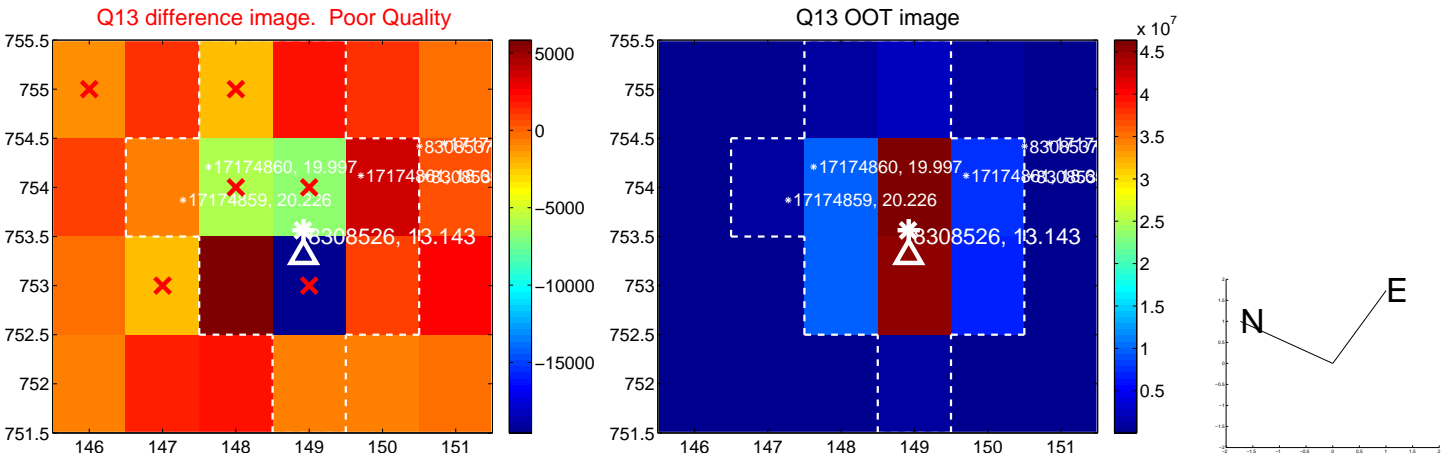
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



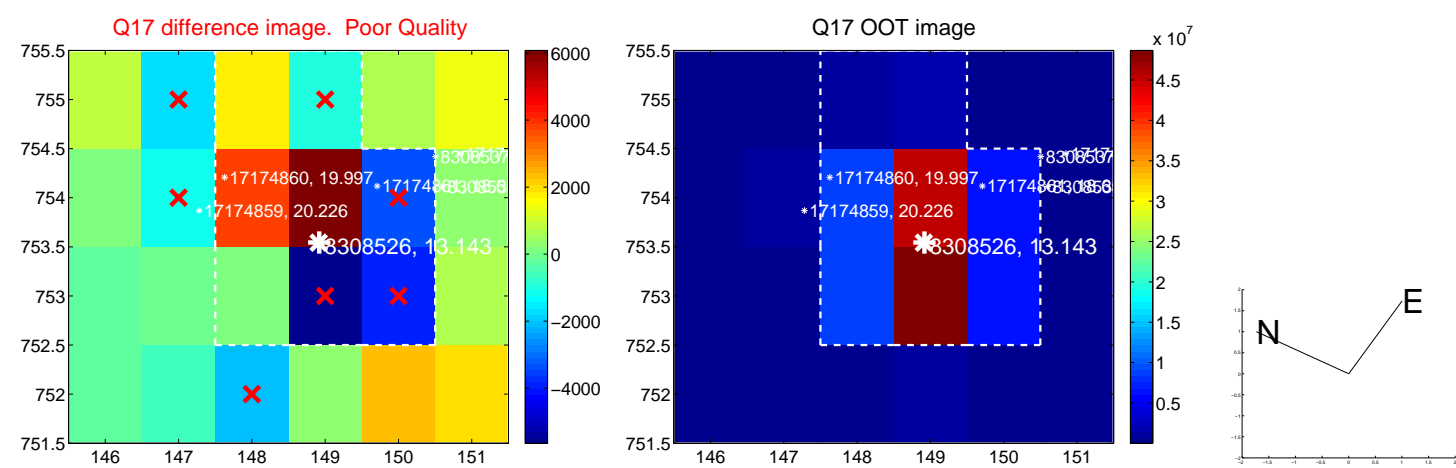
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



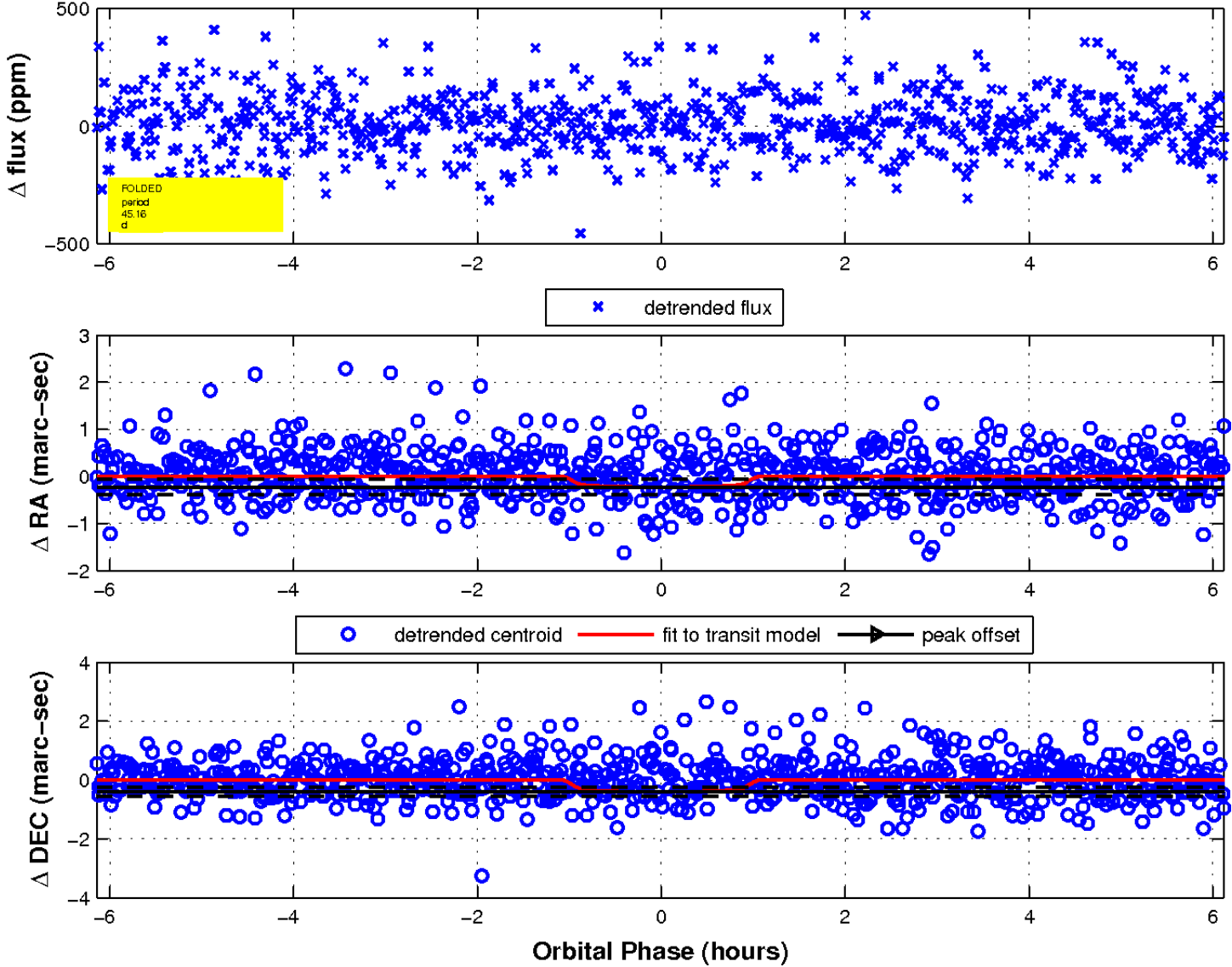
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

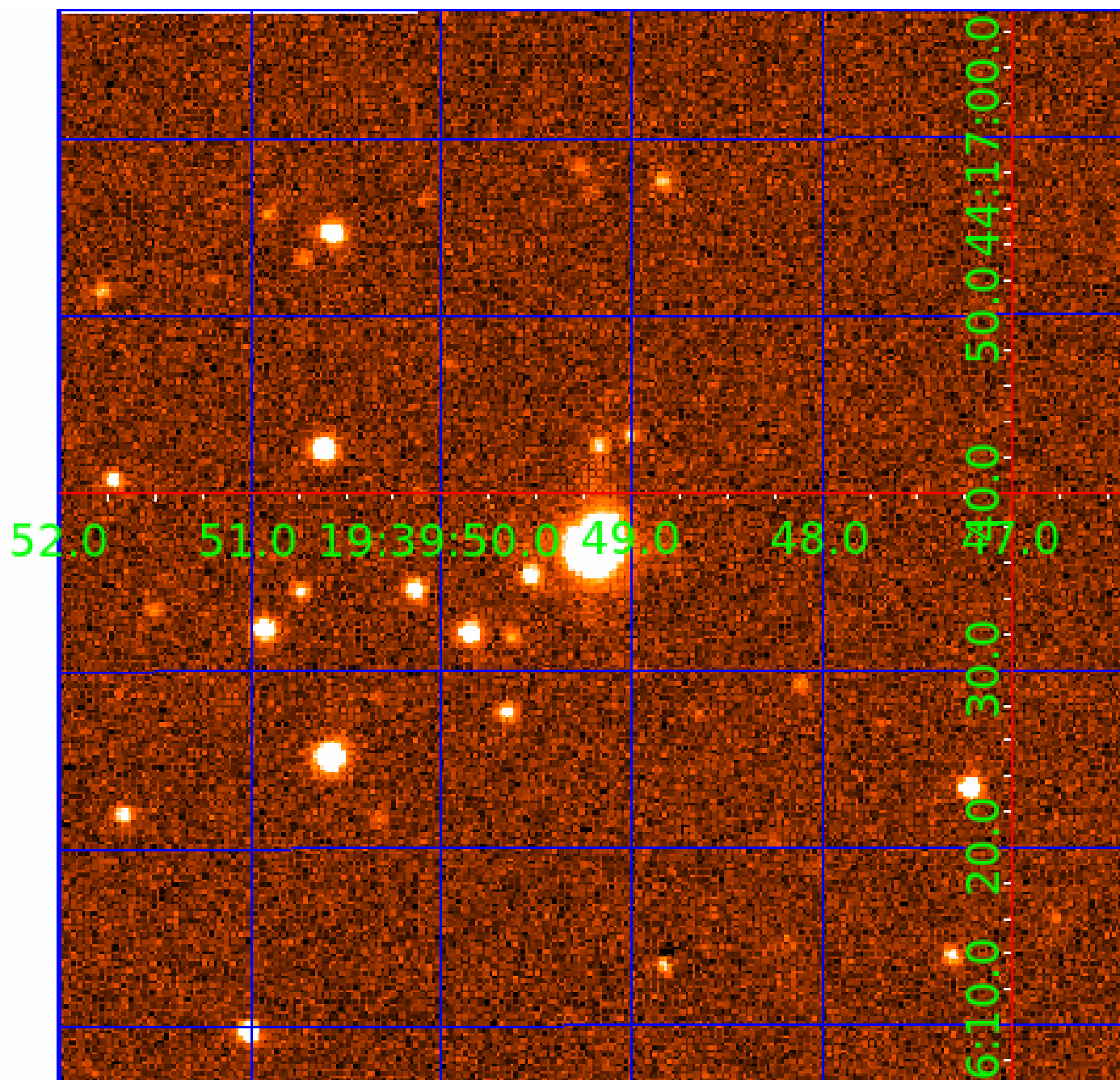


fluxWeightedCentroids, Planet 2 of 6



UKIRT Image

Declination



KIC 008308526

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})
008308526-01	OBS	No	1.329146	132.050880	17.1	8.492	7.8	9.4	1.48	6472	0.62	5831.66
008308526-02	OBS	No	45.162525	133.630202	78.5	2.047	9.5	2.3	1.48	6472	1.53	52.99
008308526-03	OBS	No	38.449266	148.080058	150.4	7.925	8.7	8.7	1.48	6472	2.45	65.67
008308526-04	OBS	No	37.355570	158.018002	84.9	5.937	7.1	5.6	1.48	6472	1.59	68.25
008308526-05	OBS	No	83.541172	213.823865	239.8	3.923	8.6	8.2	1.48	6472	2.64	23.34
008308526-06	OBS	No	36.820089	158.168406	146.3	4.347	8.6	8.3	1.48	6472	1.94	69.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008308526-01	OBS	FP	0.00	1	0	0	0	LPP_DV
008308526-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
008308526-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
008308526-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008308526-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS—HALO_GHOST
008308526-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT

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

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

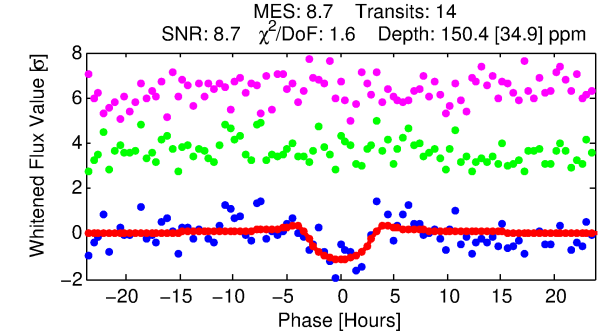
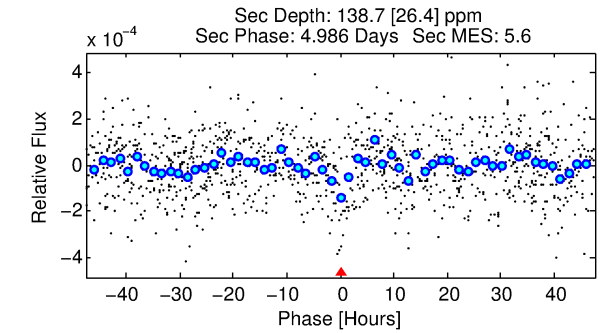
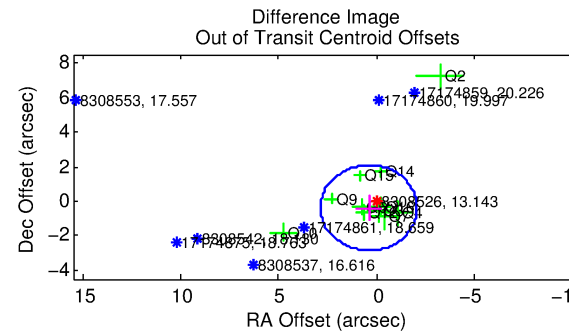
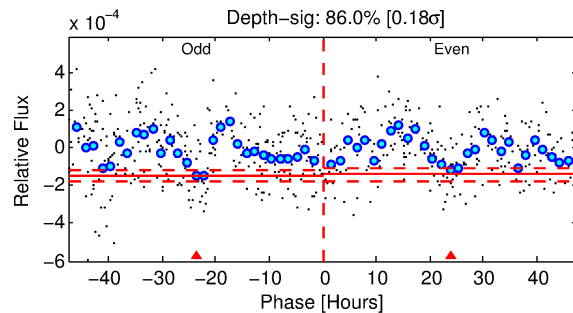
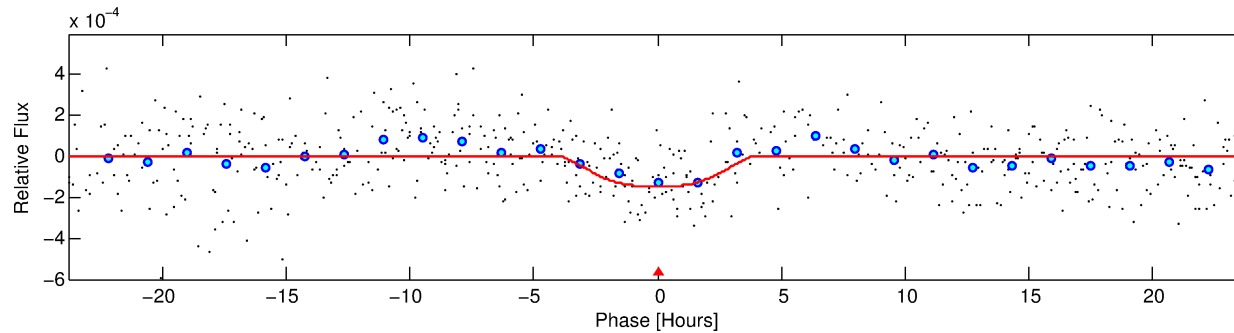
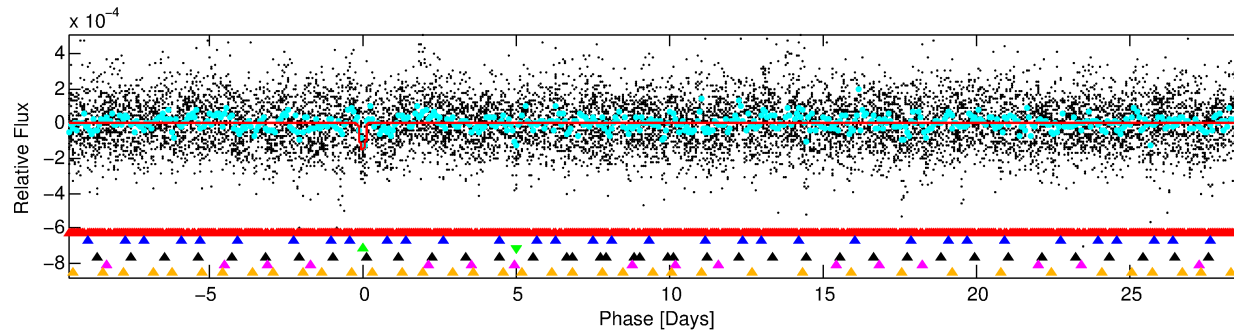
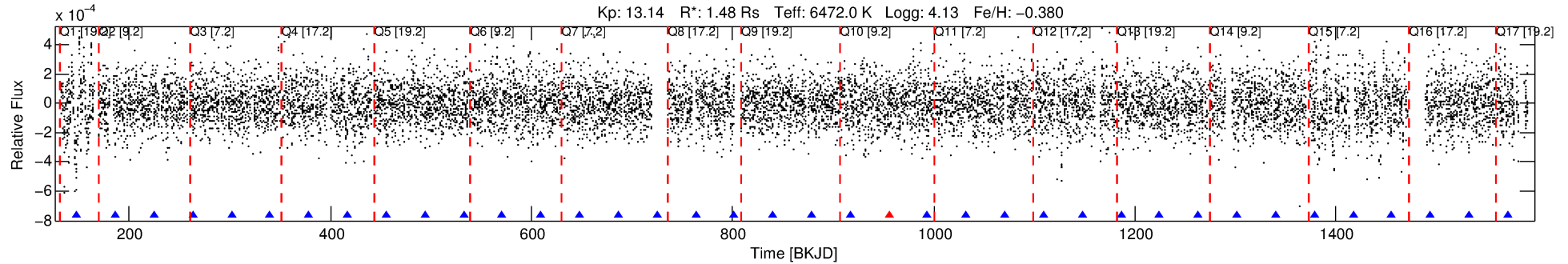
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008308526-03

No Significant Match Found

DV One-Page Summary

KIC: 8308526 Candidate: 3 of 6 Period: 38.449 d



DV Fit Results:

Period = 38.44927 [0.00115] d
Epoch = 148.0801 [0.0253] BKJD
Rp/R* = 0.0152 [0.0023]
a/R* = 9.29 [2.30]
b = 0.98 [0.01]
Seff = 65.67 [23.98]
Teq = 726 [66] K
Rp = 2.45 [0.70] Re
a = 0.2290 [0.0510] AU
Ag = 667.10 [330.84] [2.01 σ]
Teffp = 5704 [536] K [9.21 σ]

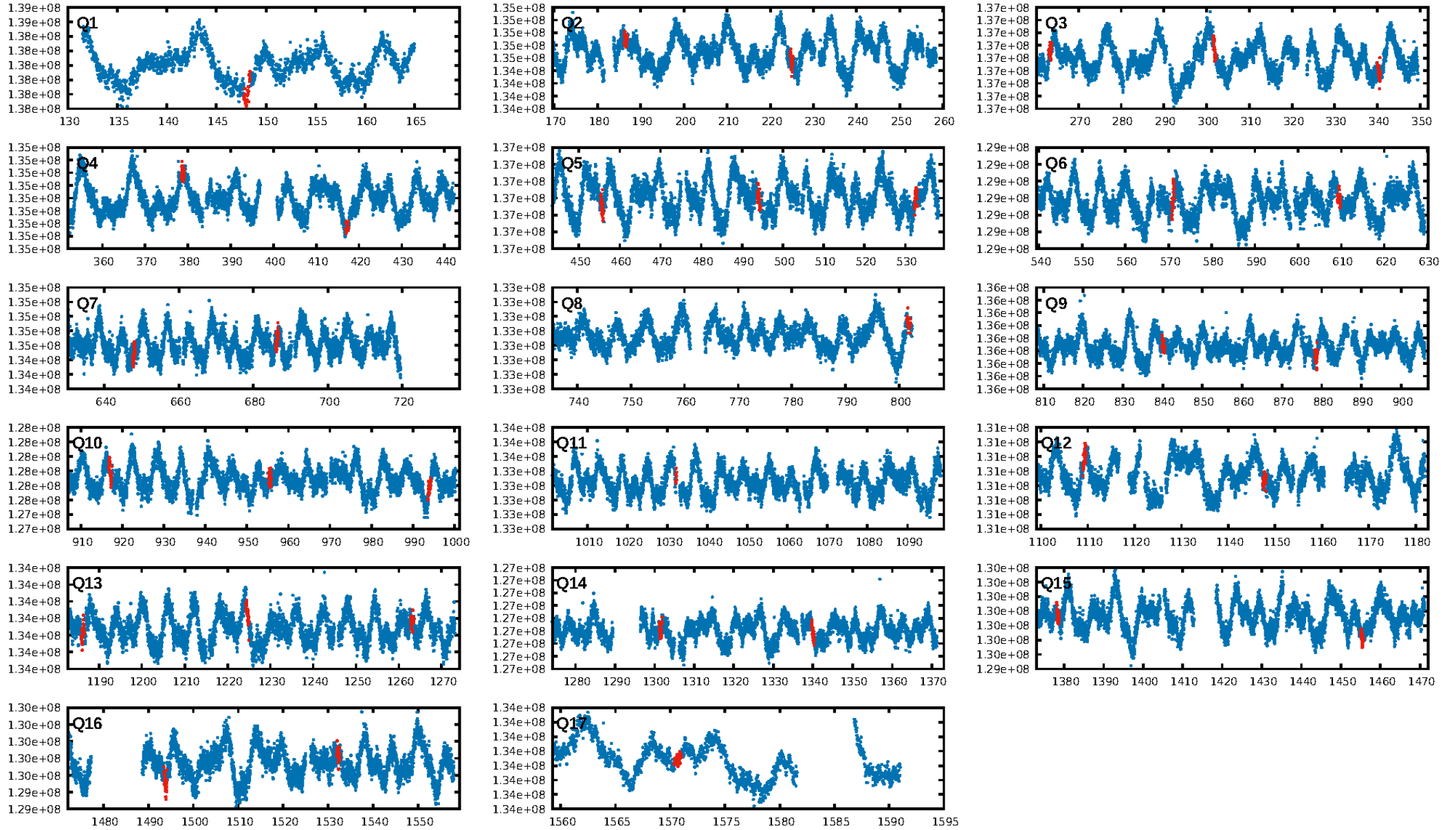
DV Diagnostic Results:

ShortPeriod-sig: 99.2% [2.65 σ]
LongPeriod-sig: 100.0% [19.68 σ]
ModelChiSquare2-sig: 2.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.71e-11
RollingBand-fgt: 0.92 [12/13]
GhostDiagnostic-chr: -0.3795
Centroid-sig: 1.6%
Centroid-so: 1.126 arcsec [1.54 σ]
OotOffset-rm: 0.553 arcsec [0.67 σ]
KicOffset-rm: 0.599 arcsec [1.29 σ]
OotOffset-st: 4/3/3/1 [11]
KicOffset-st: 4/3/3/1 [11]
DiffImageQuality-fgm: 0.55 [6/11]
DiffImageOverlap-fno: 0.00 [0/16]

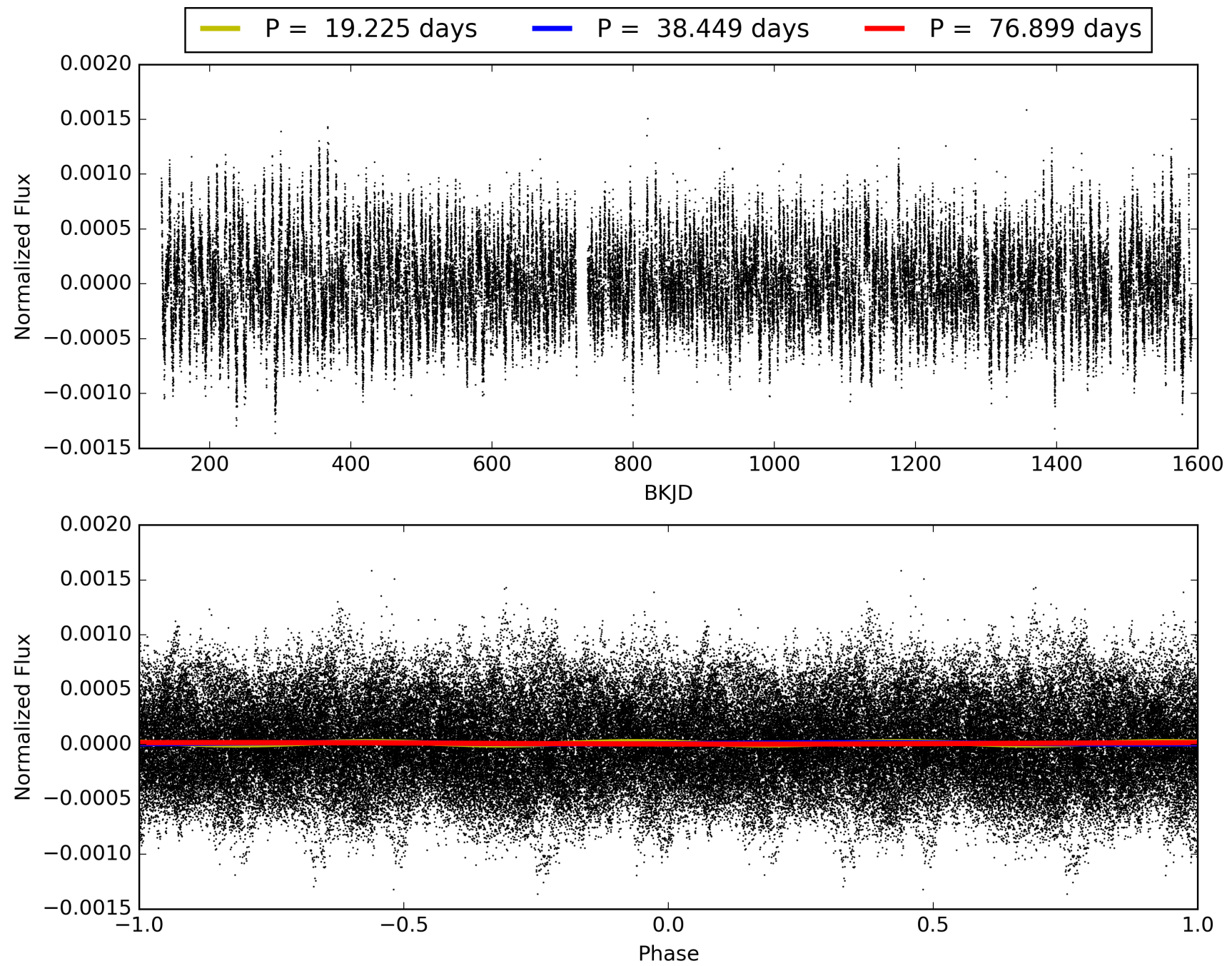
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 16:58:19 Z

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

TCE 008308526-03, PDC Light Curves

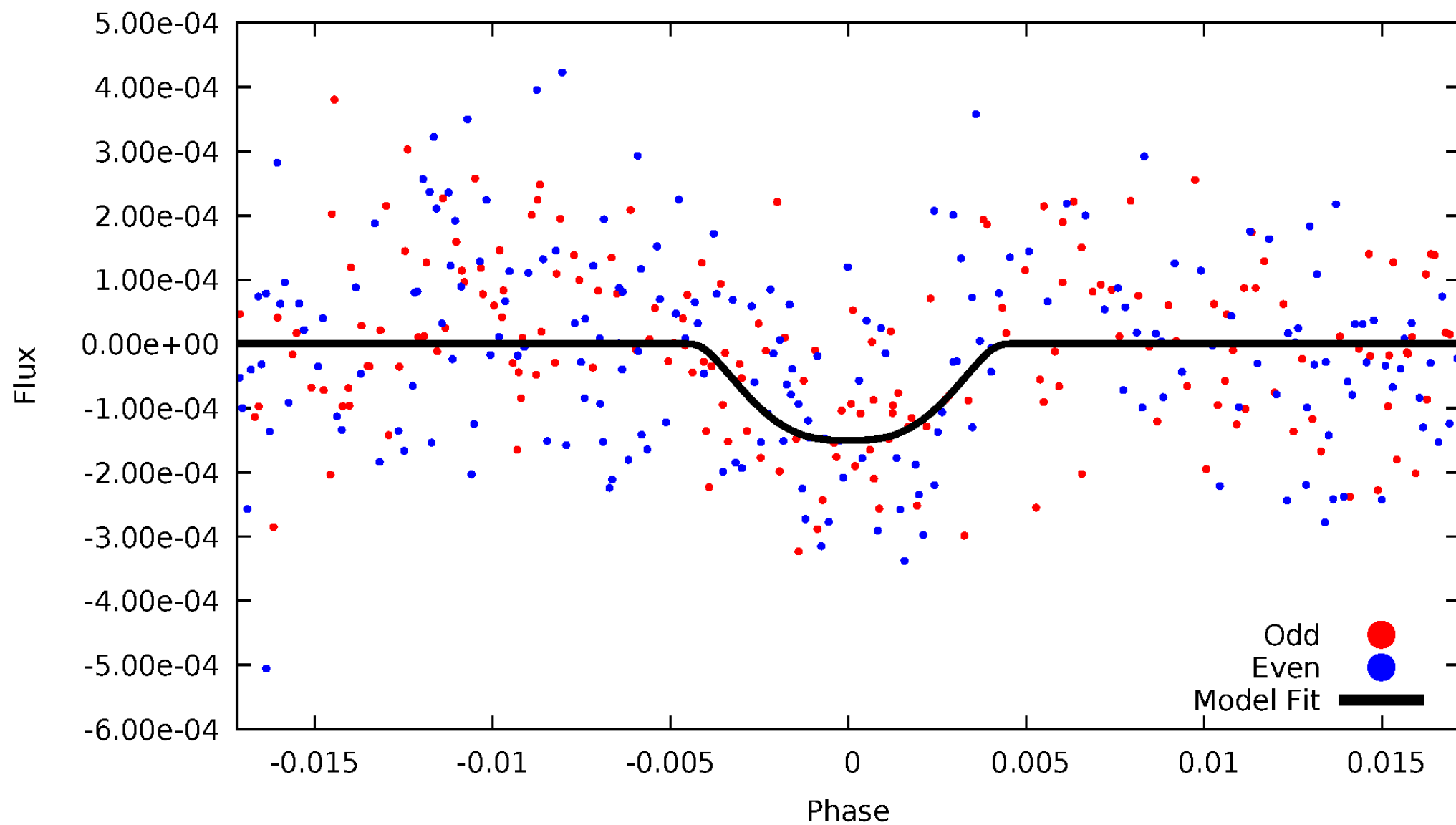


TCE 008308526-03



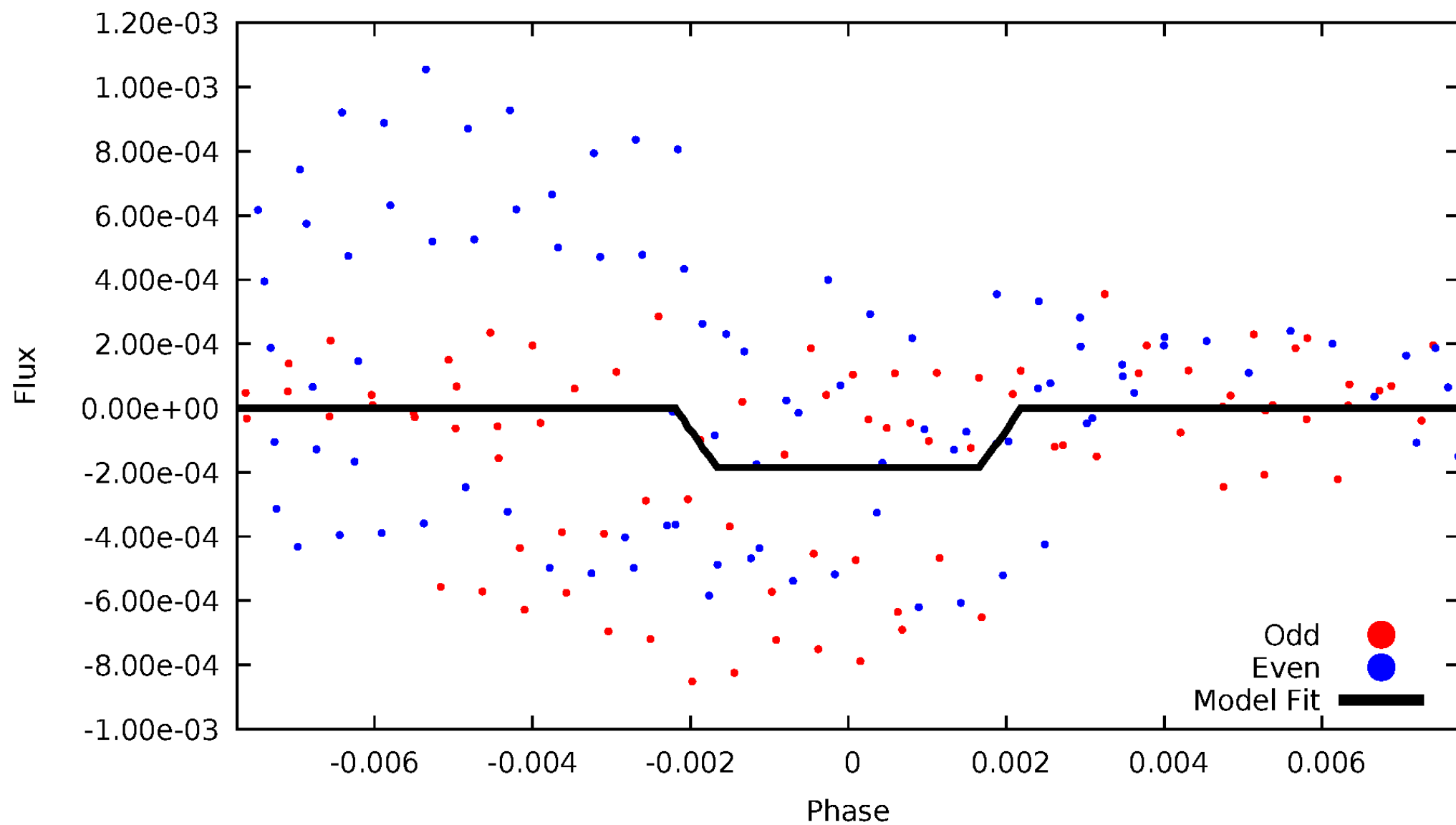
DV Odd/Even

TCE 008308526-03



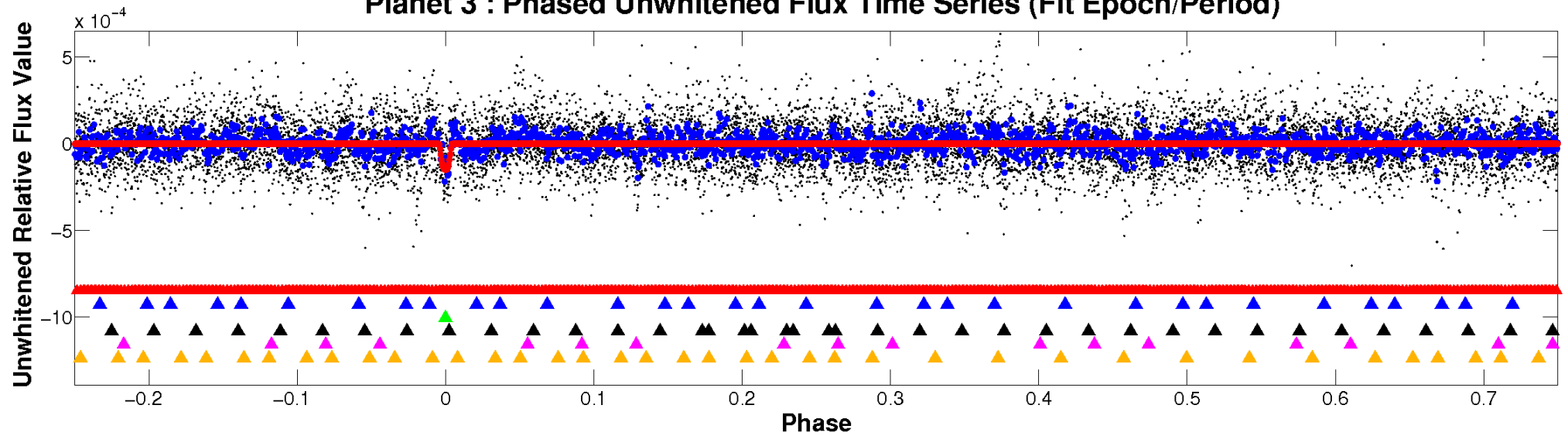
ALT Odd/Even

TCE 008308526-03

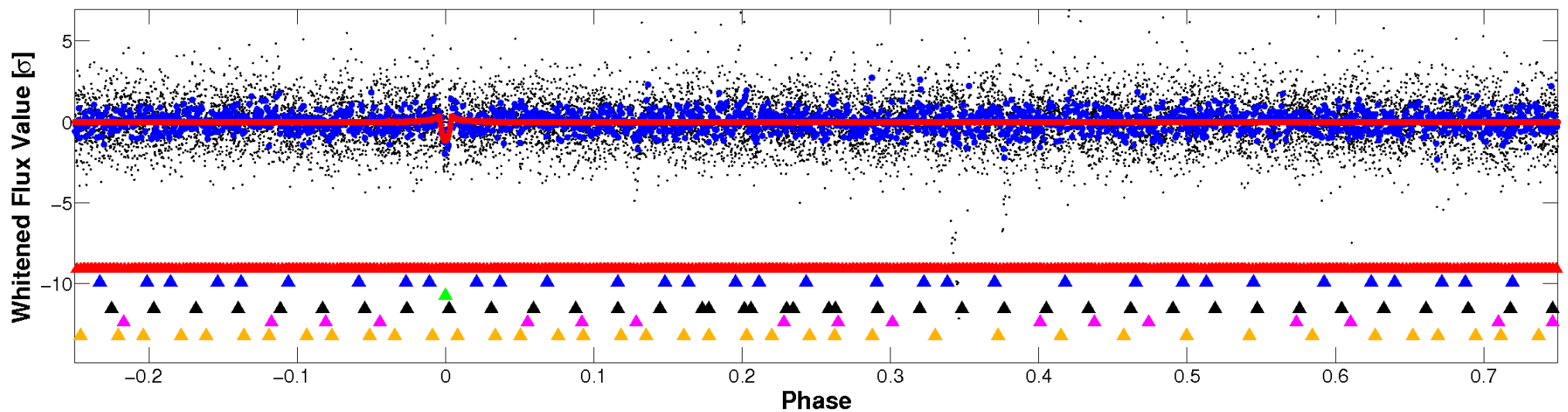


Non-Whitened Vs. Whitened Light Curve

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

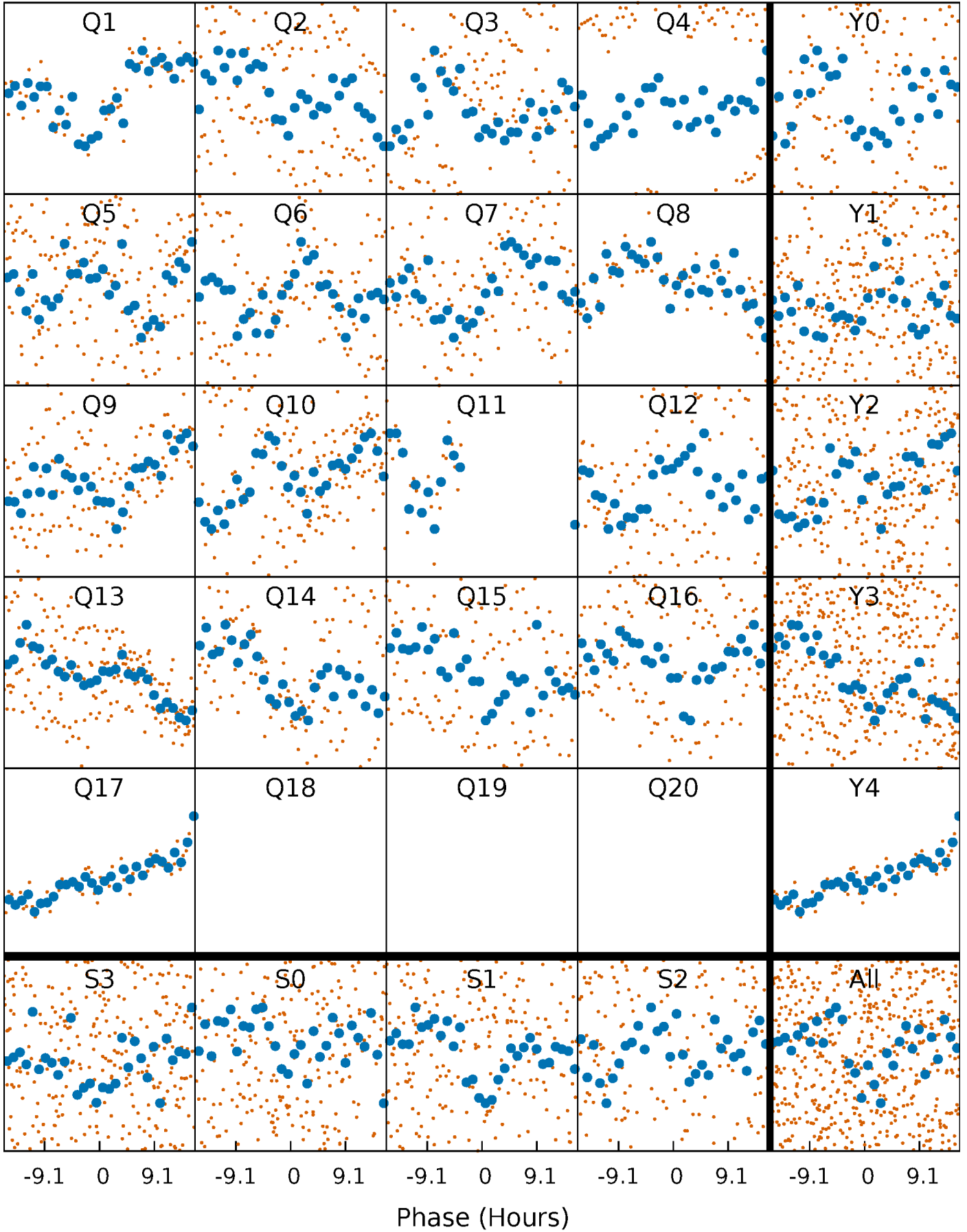


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



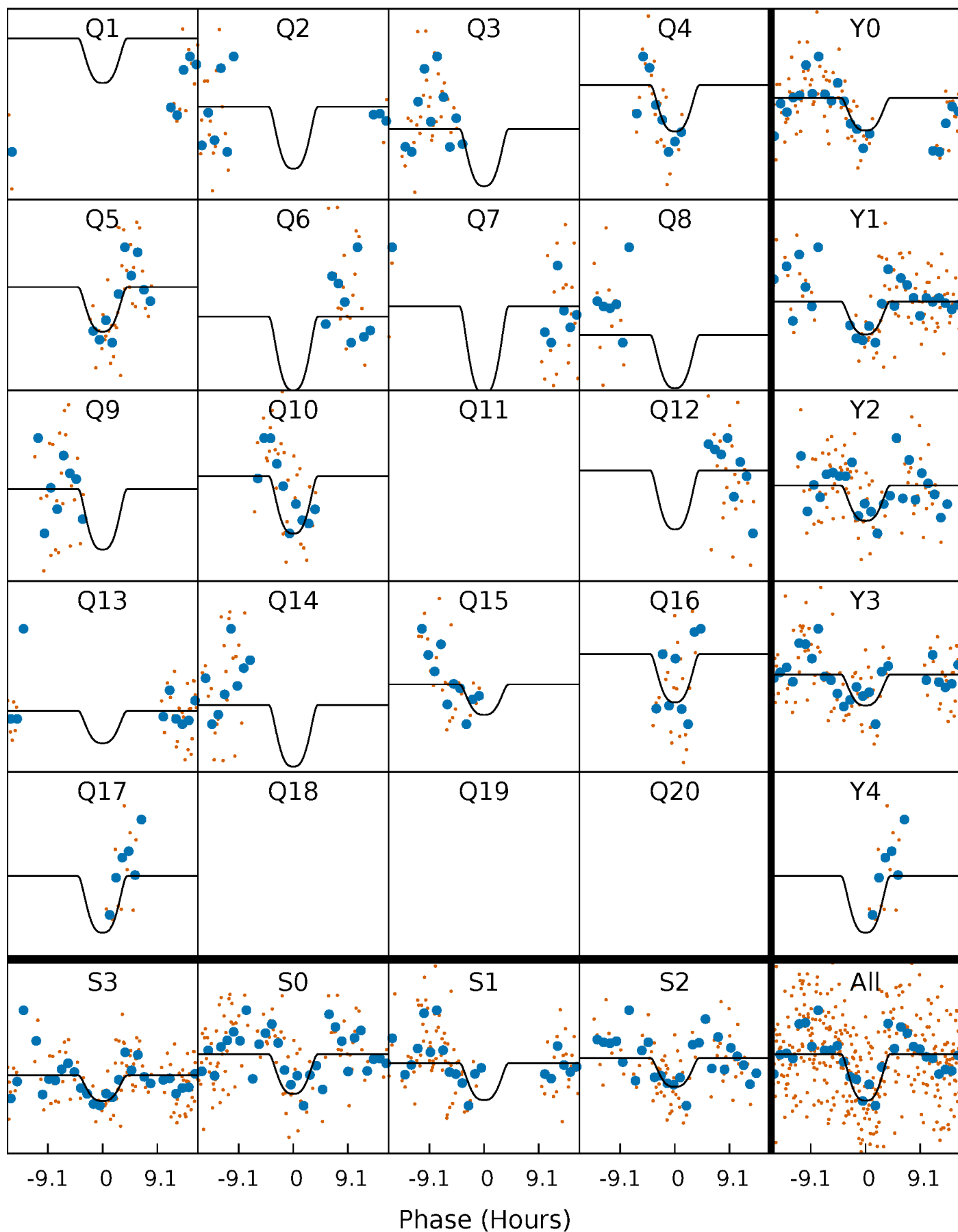
PDC Quarter-Phased Transit Curves

TCE 008308526-03 P= 38.449266 Days $T_0=148.080058$ (BKJD)



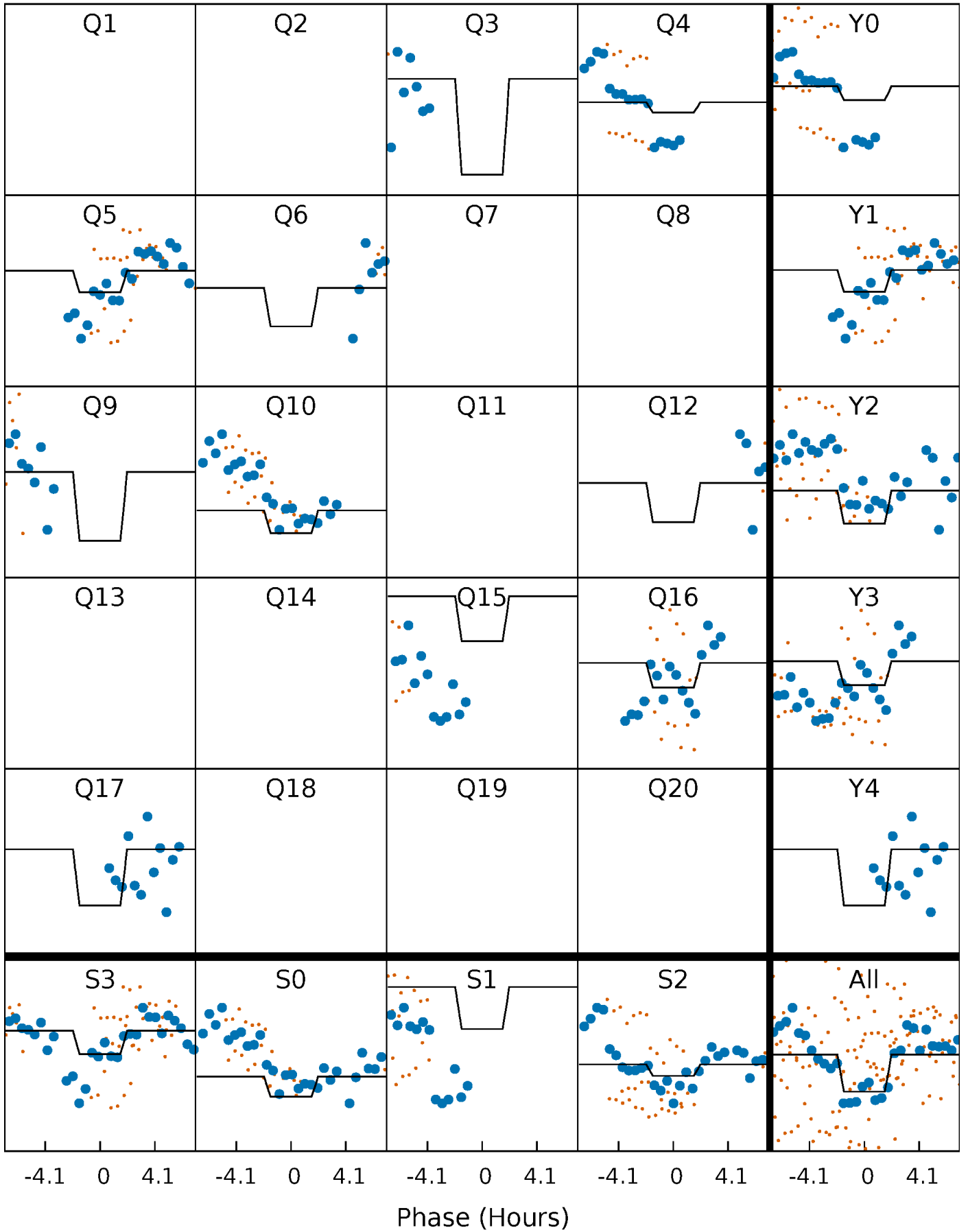
DV Quarter-Phased Transit Curves

TCE 008308526-03 $P = 38.449266$ Days $T_0 = 148.080058$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

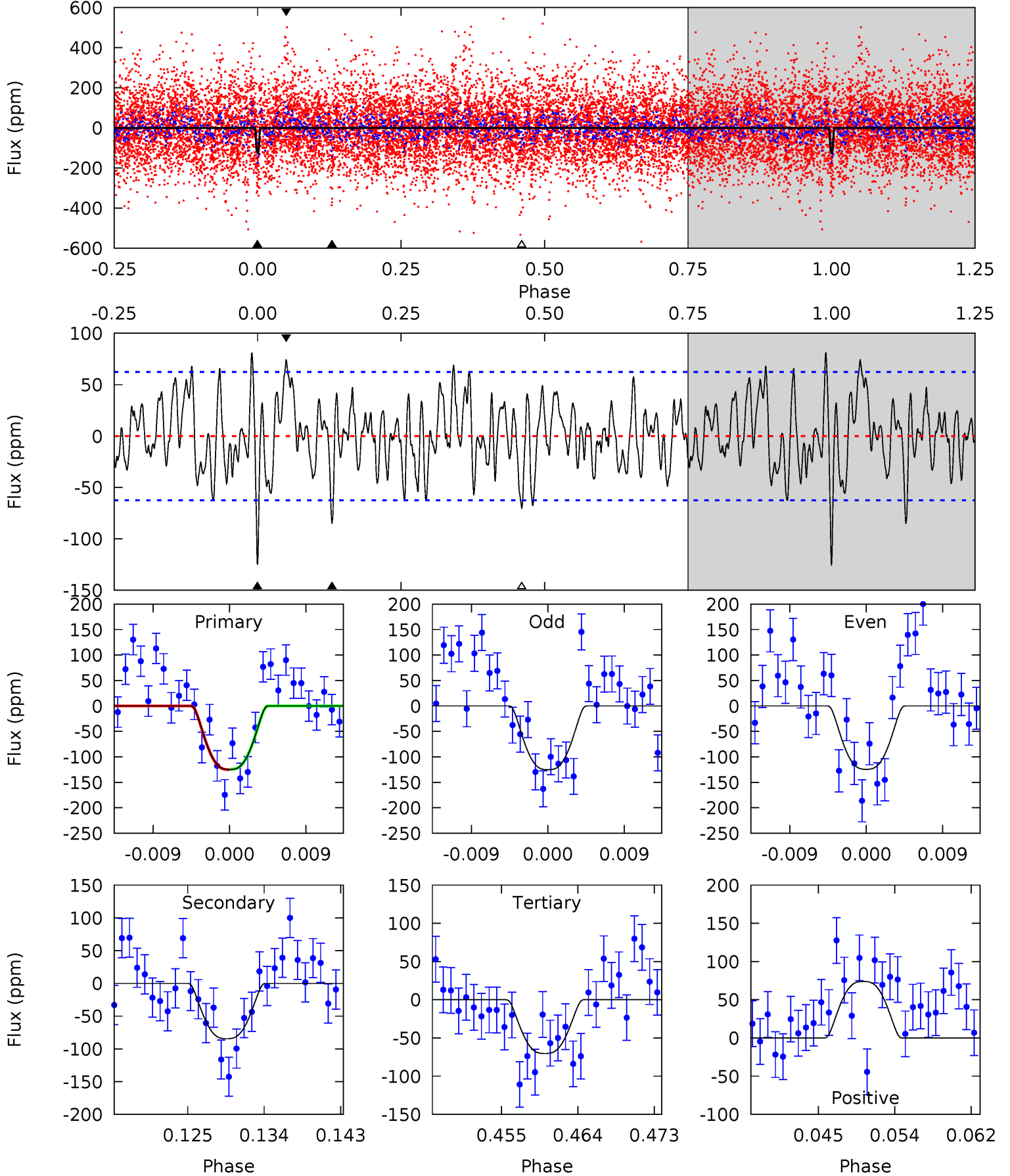
TCE 008308526-03 P= 38.448818 Days $T_0=148.105208$ (BKJD)



DV Model-Shift Uniqueness Test

008308526-03, P = 38.449266 Days, E = 109.630792 Days

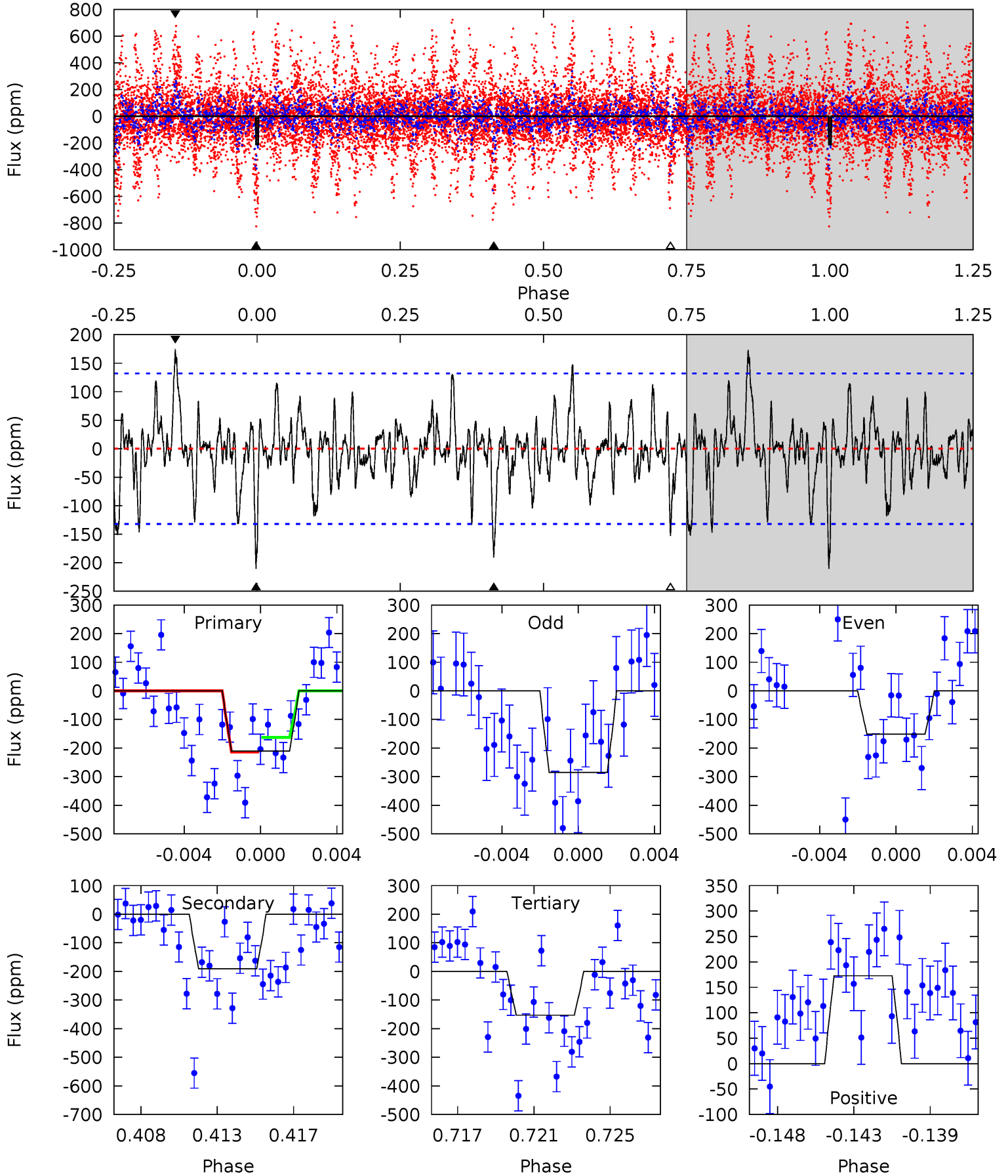
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.1	6.83	5.69	5.98	5.05	2.62	2.31	4.40	4.11	1.14	0.85	0.03	0.75	0.39	0.02



Alt Model-Shift Uniqueness Test

008308526-03, P = 38.448818 Days, E = 109.656390 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.27	7.50	6.00	6.78	5.18	2.85	1.85	2.26	1.48	1.49	0.71	2.60	2.31	0.45	0.99



Stellar Parameters For KIC 008308526

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6472^{+146}_{-194}	$4.132^{+0.198}_{-0.132}$	$-0.380^{+0.300}_{-0.300}$	$1.480^{+0.296}_{-0.362}$	$1.081^{+0.162}_{-0.133}$	$0.470^{+0.514}_{-0.184}$
	+2%/-3%	+5%/-3%	+79%/-79%	+20%/-24%	+15%/-12%	+109%/-39%
Source	PHO1	FLK73	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 008308526-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-84 ± 12	$2.42^{+0.51}_{-0.46}$	1007^{+59}_{-68}	5073^{+446}_{-318}	414^{+226}_{-134}
Alt.	-191 ± 25	$2.18^{+0.45}_{-0.46}$	1008^{+58}_{-64}	6510^{+721}_{-588}	1167^{+728}_{-390}

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 $A_{obs} \gg 1.0$

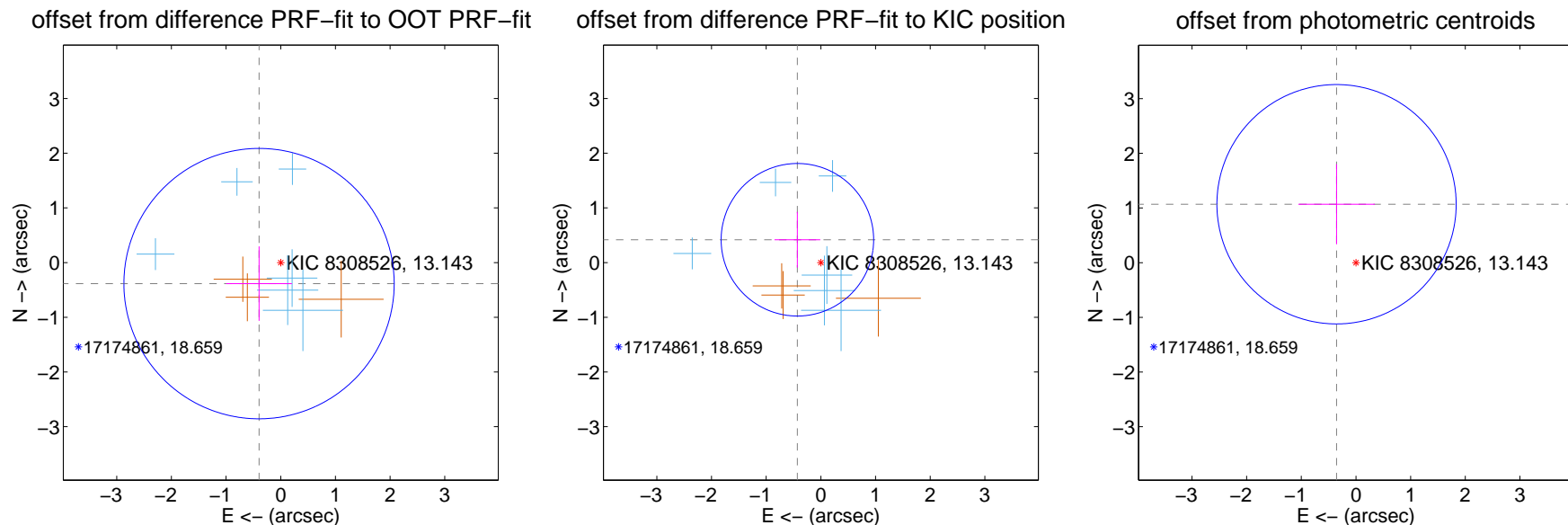
DV Centroid Data

Supplemental centroid analysis for 008308526-03. Kepler magnitude: 13.14. Transit SNR 8.72

There are 6 quarters with good PRF difference image offsets

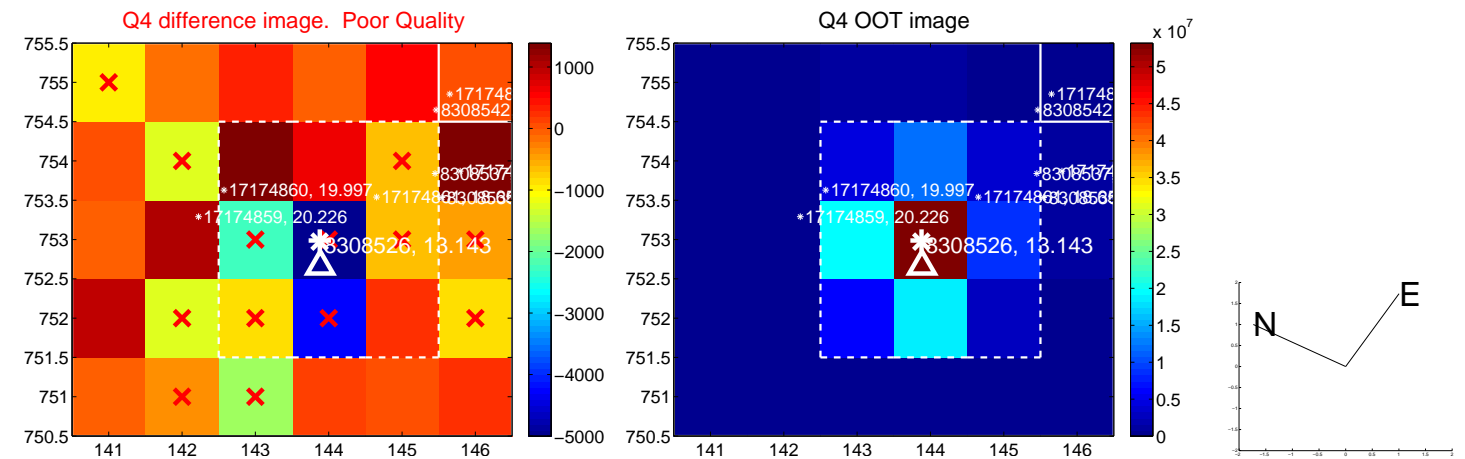
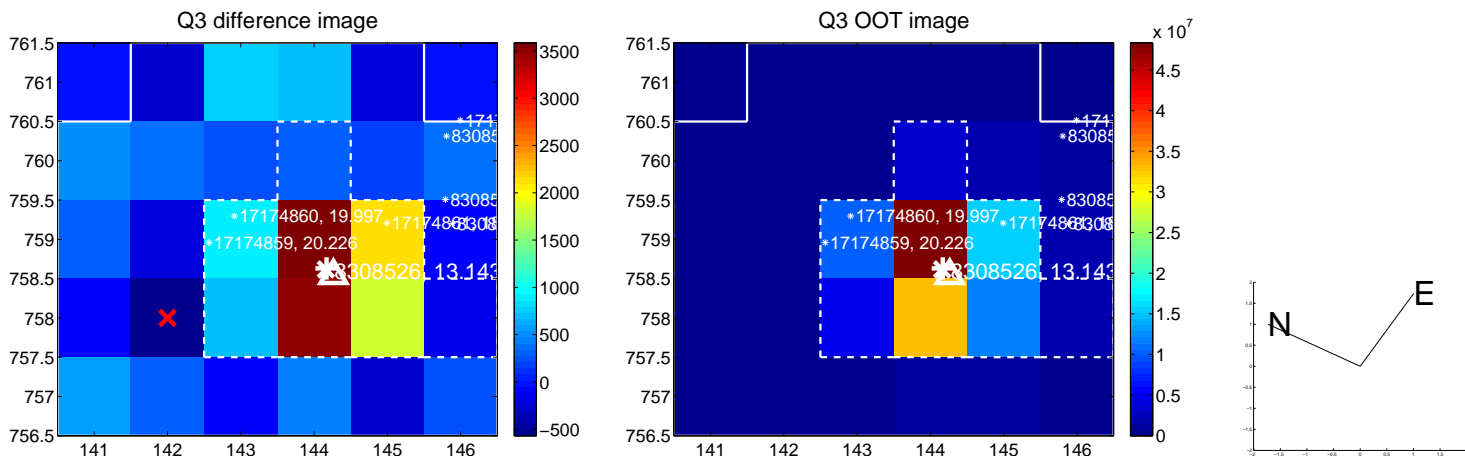
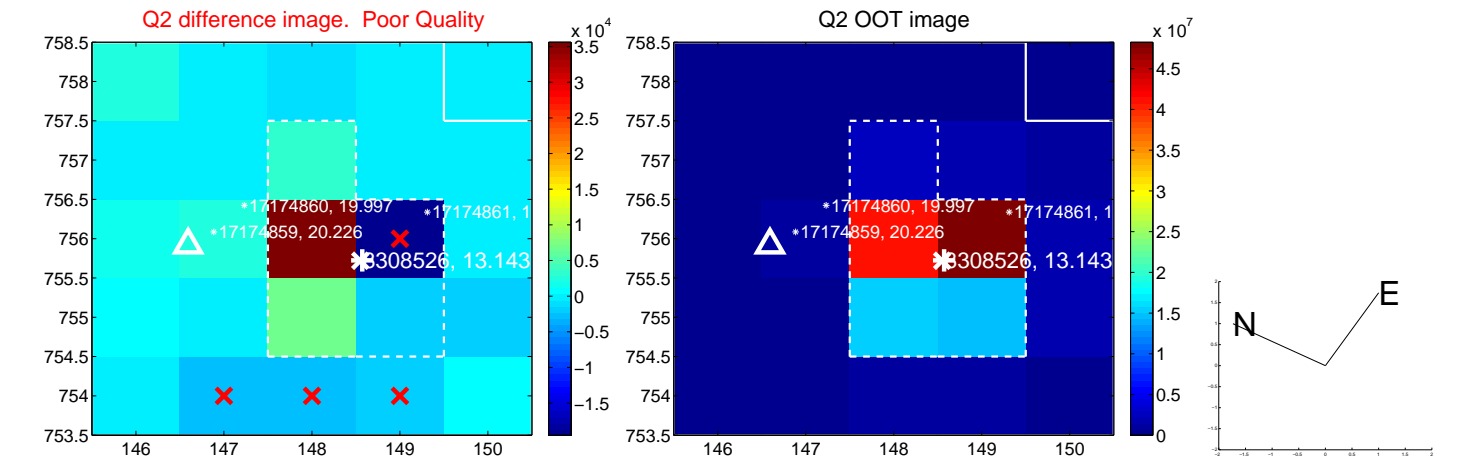
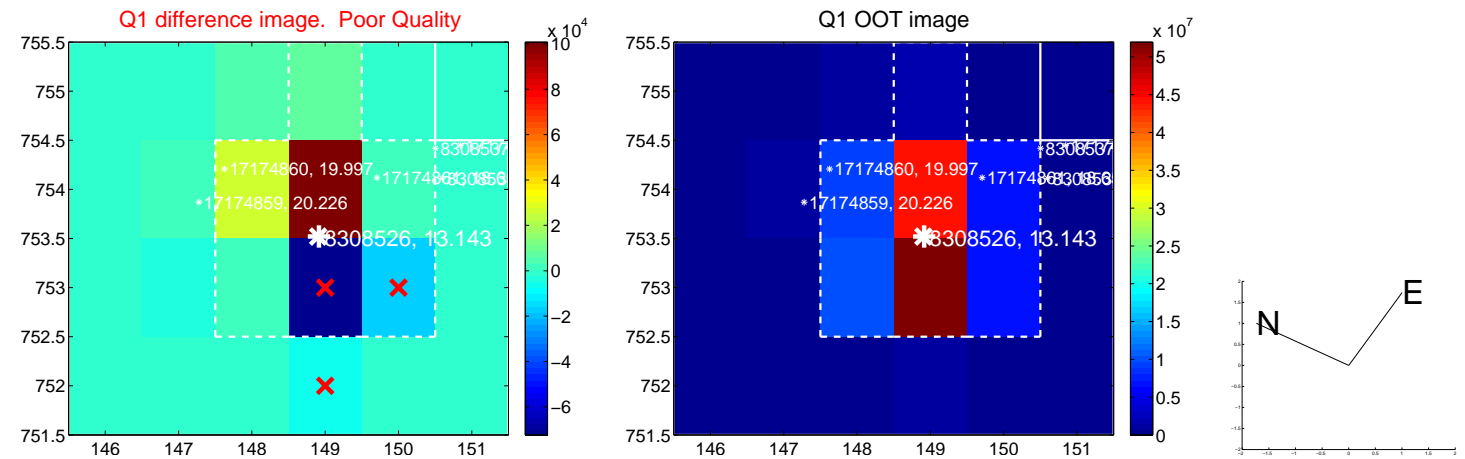
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.553 ± 0.824	0.67	0.397 ± 0.601	-0.385 ± 0.680
PRF-fit source offset from KIC position	0.599 ± 0.465	1.29	0.429 ± 0.418	0.417 ± 0.509
photometric centroid source offset	1.13 ± 0.73	1.54	0.36 ± 0.70	1.07 ± 0.73

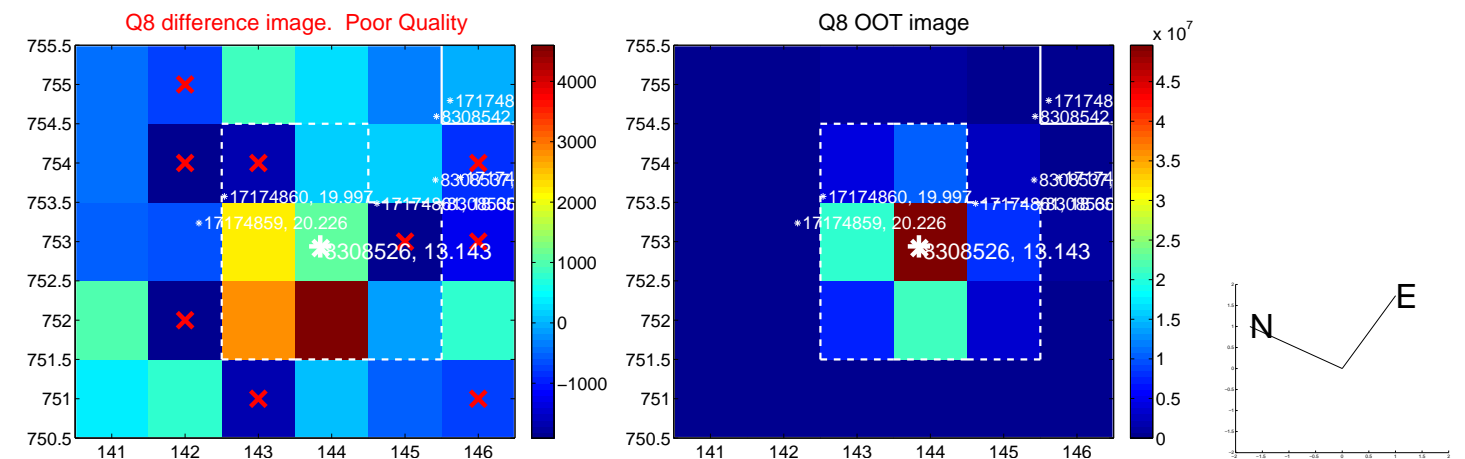
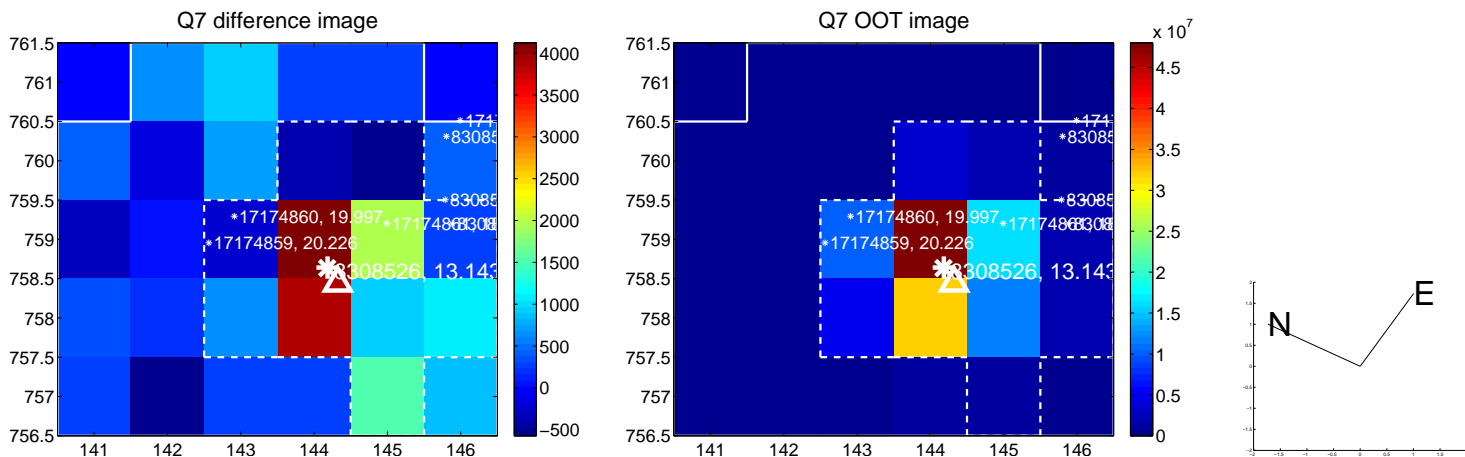
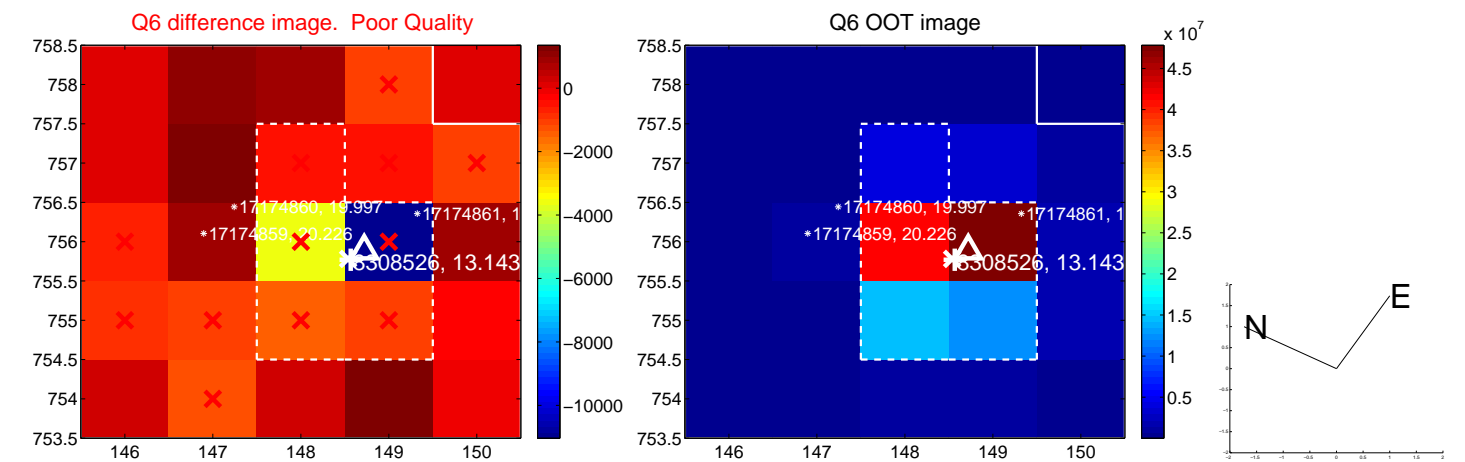
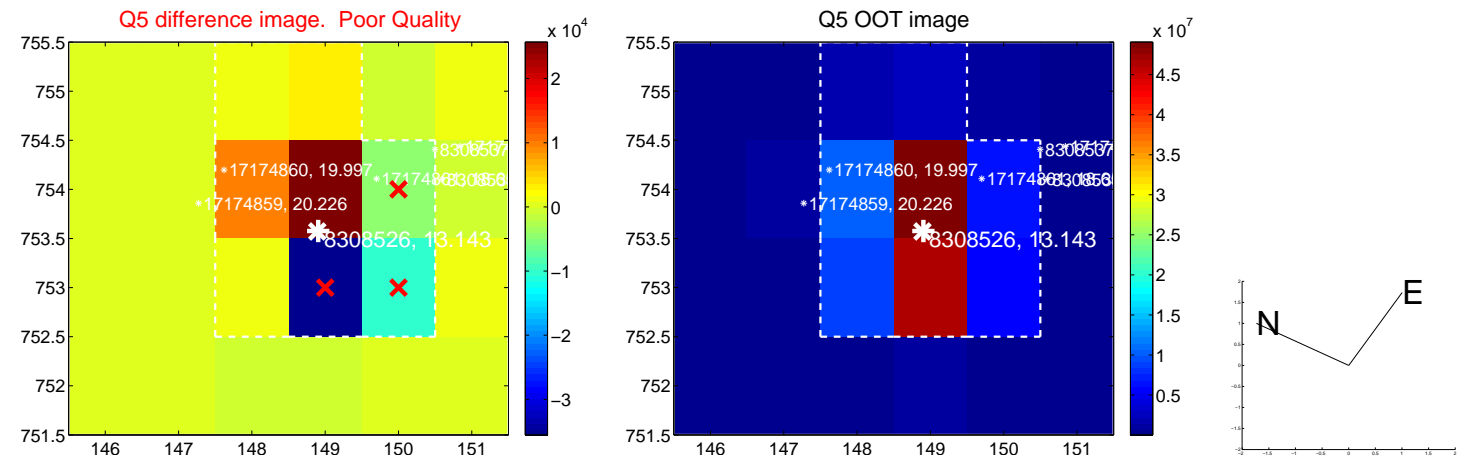


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

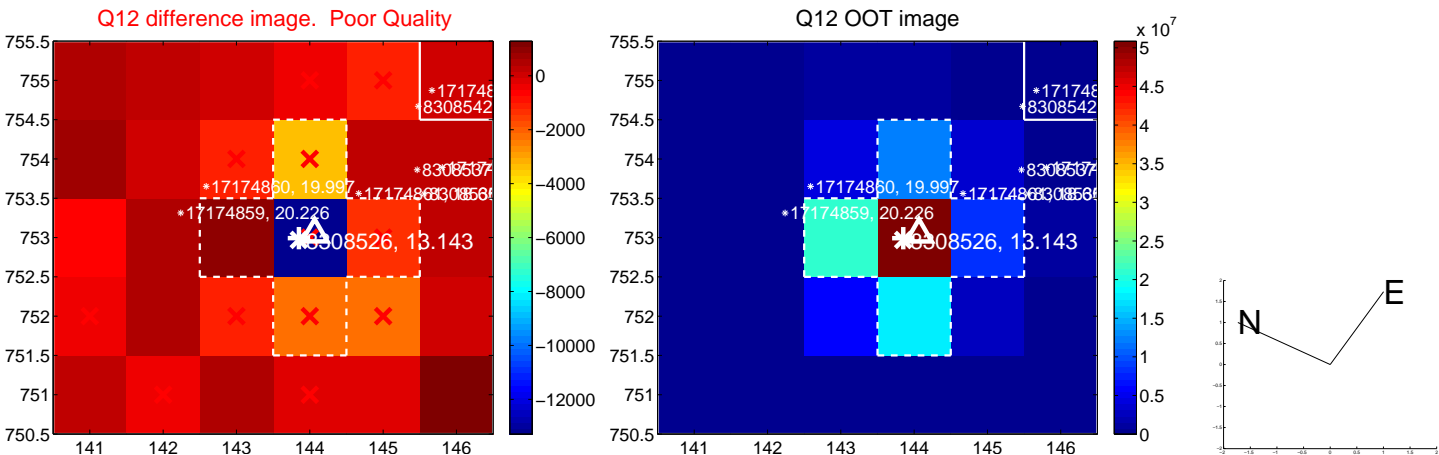
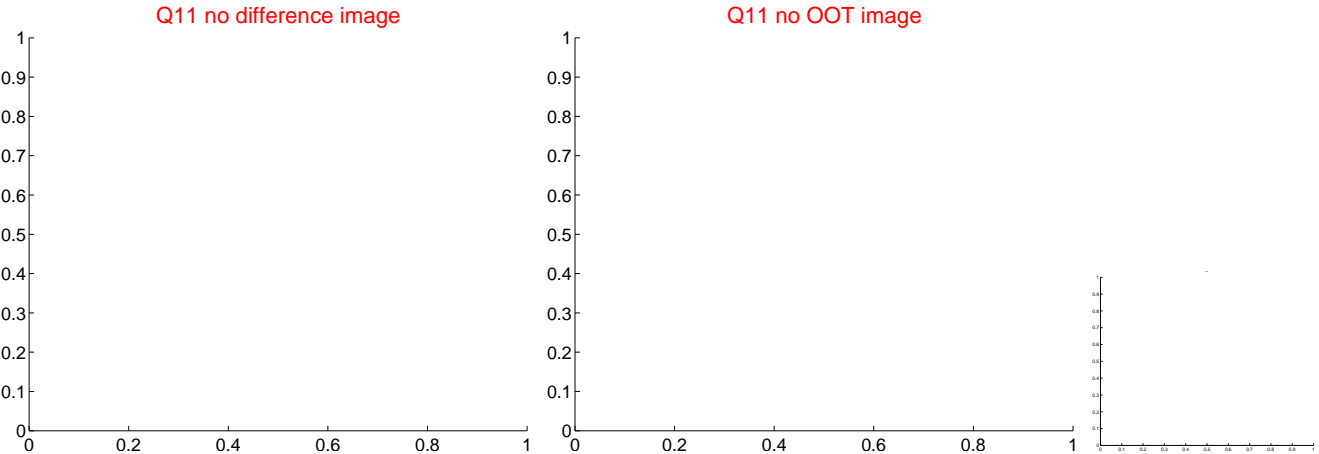
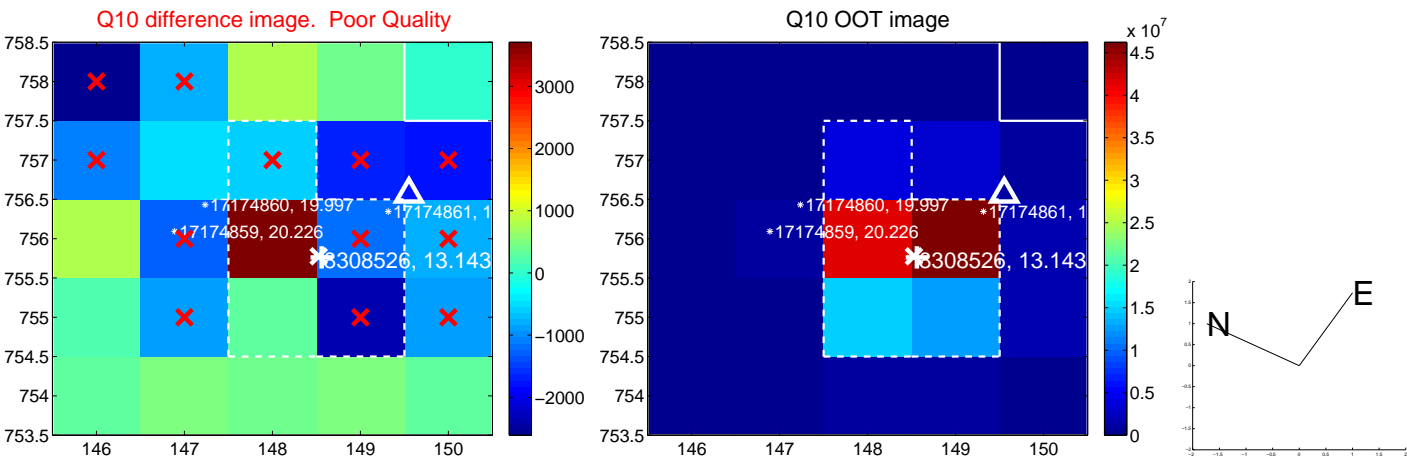
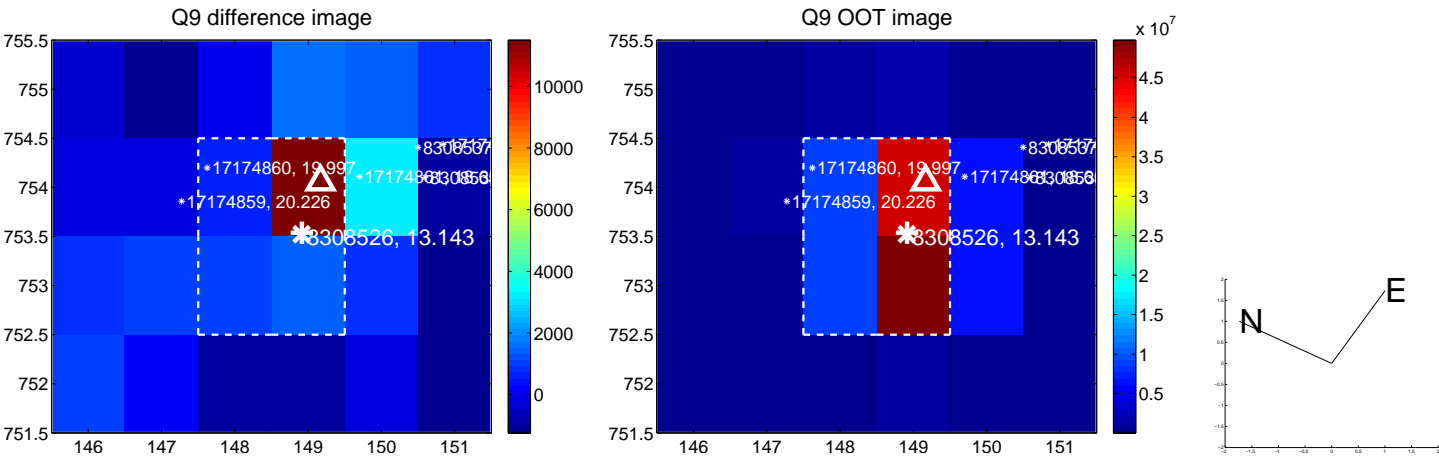
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



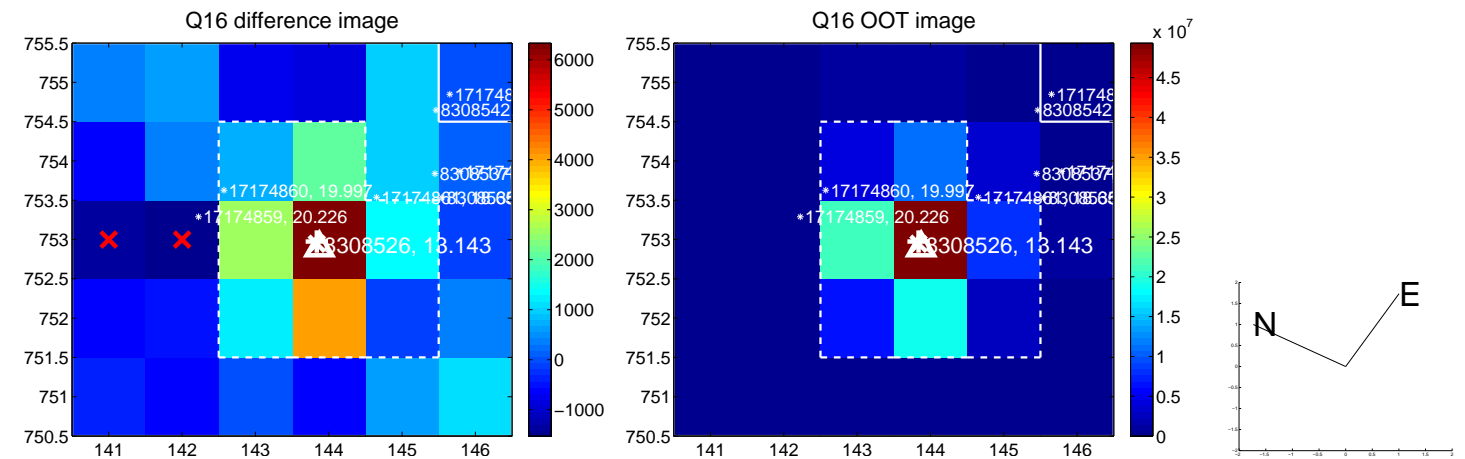
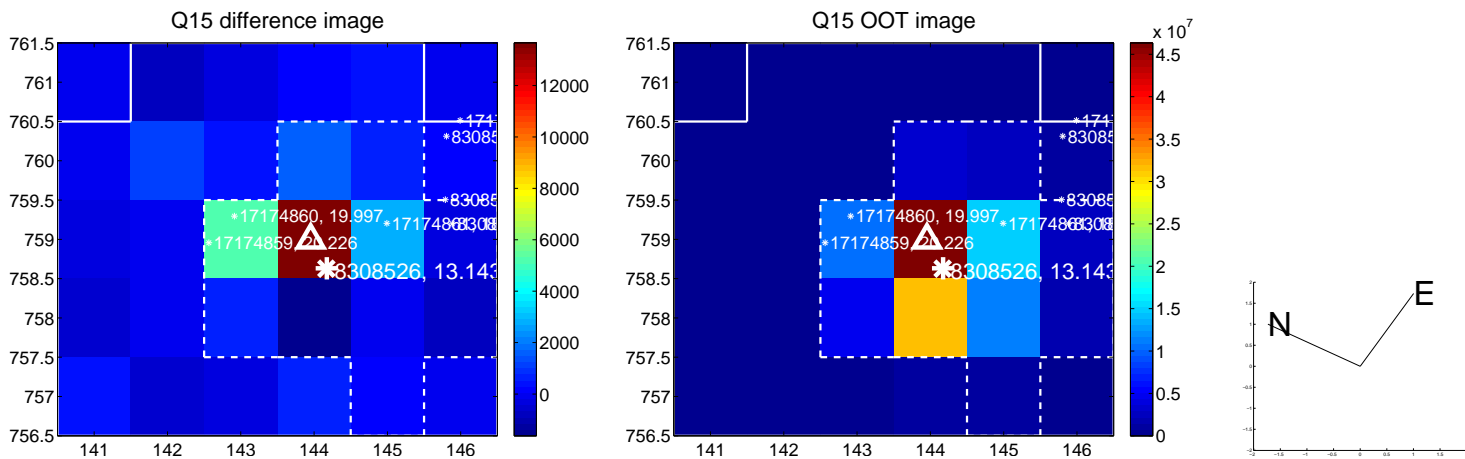
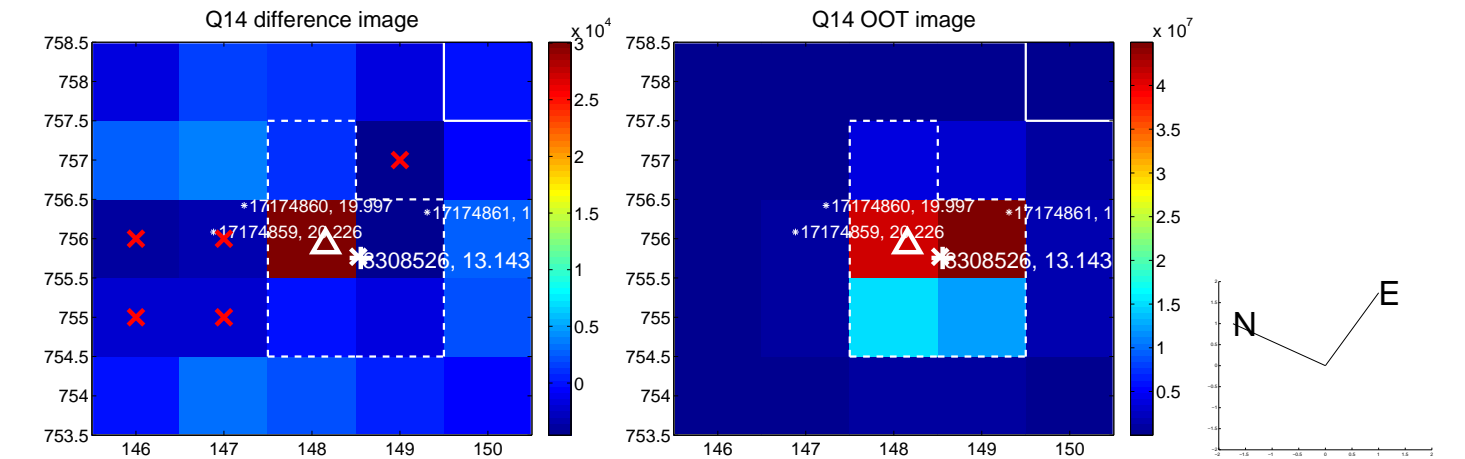
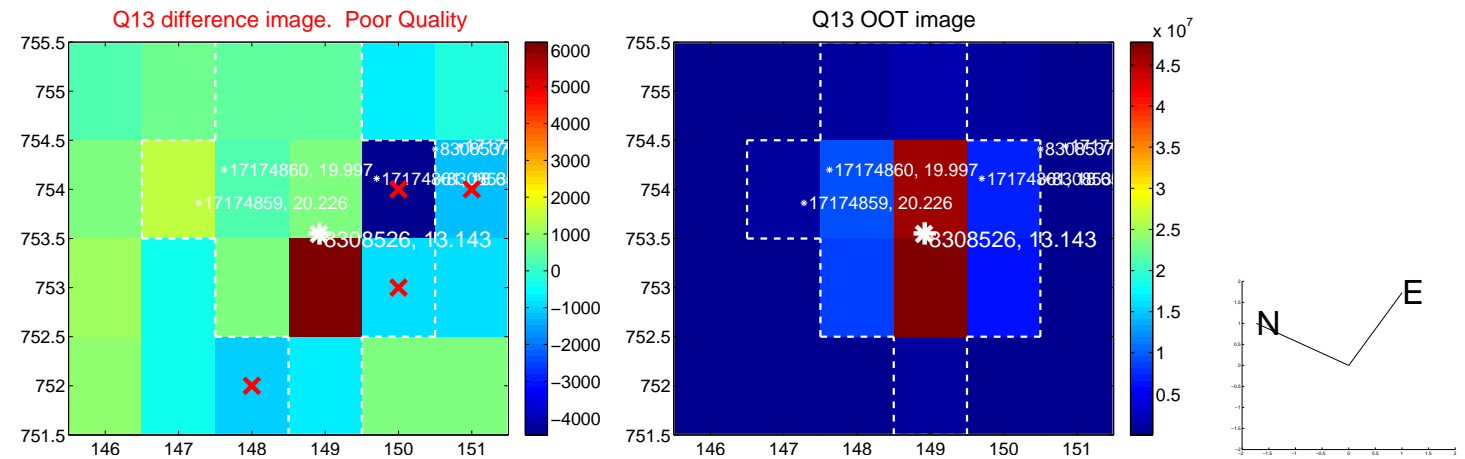
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



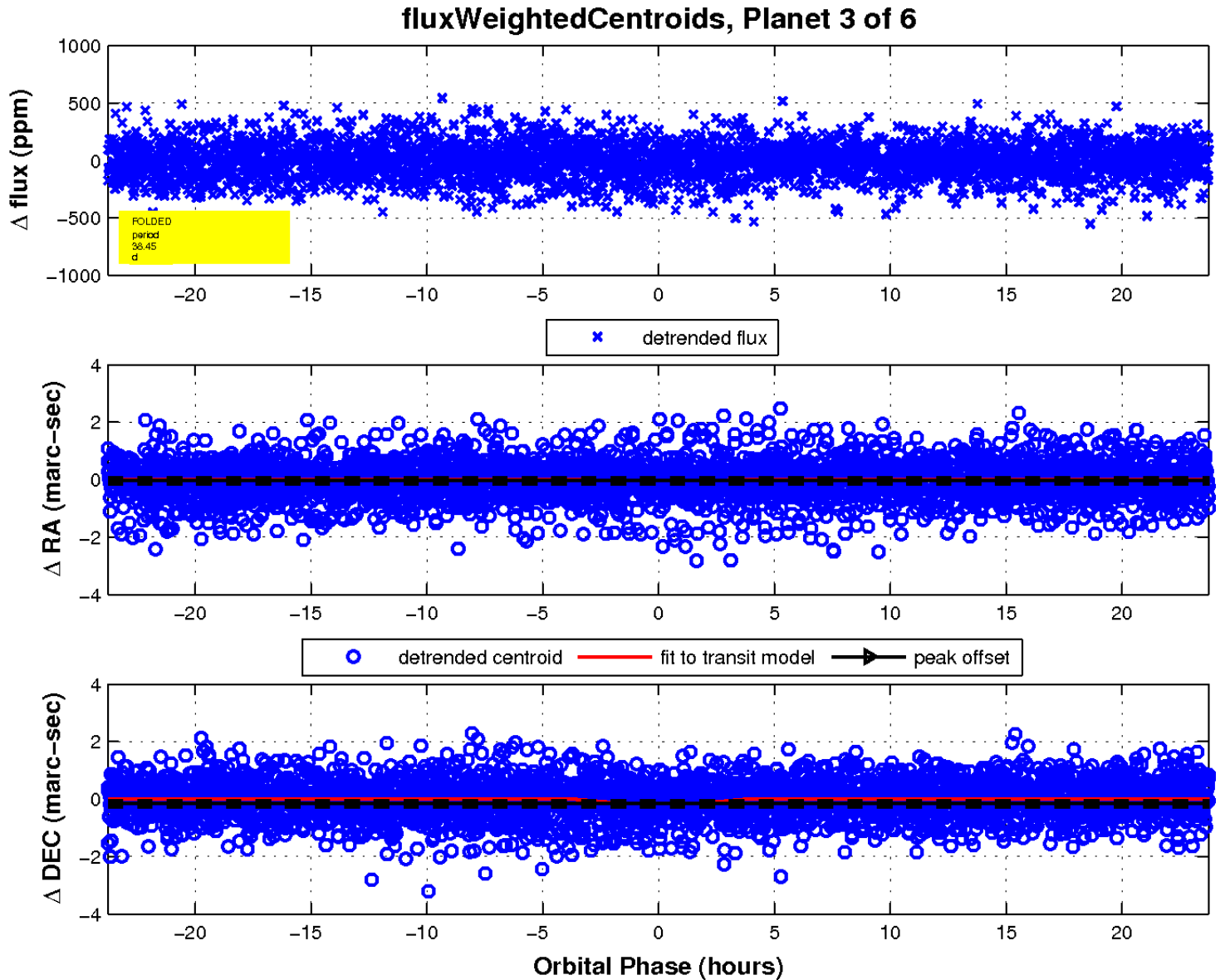
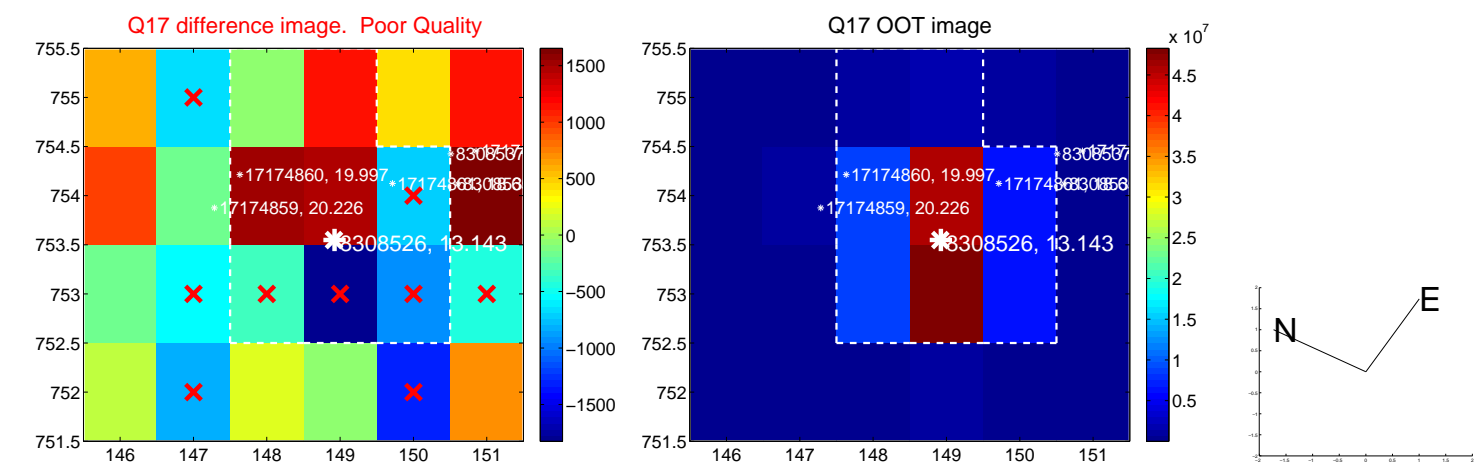
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

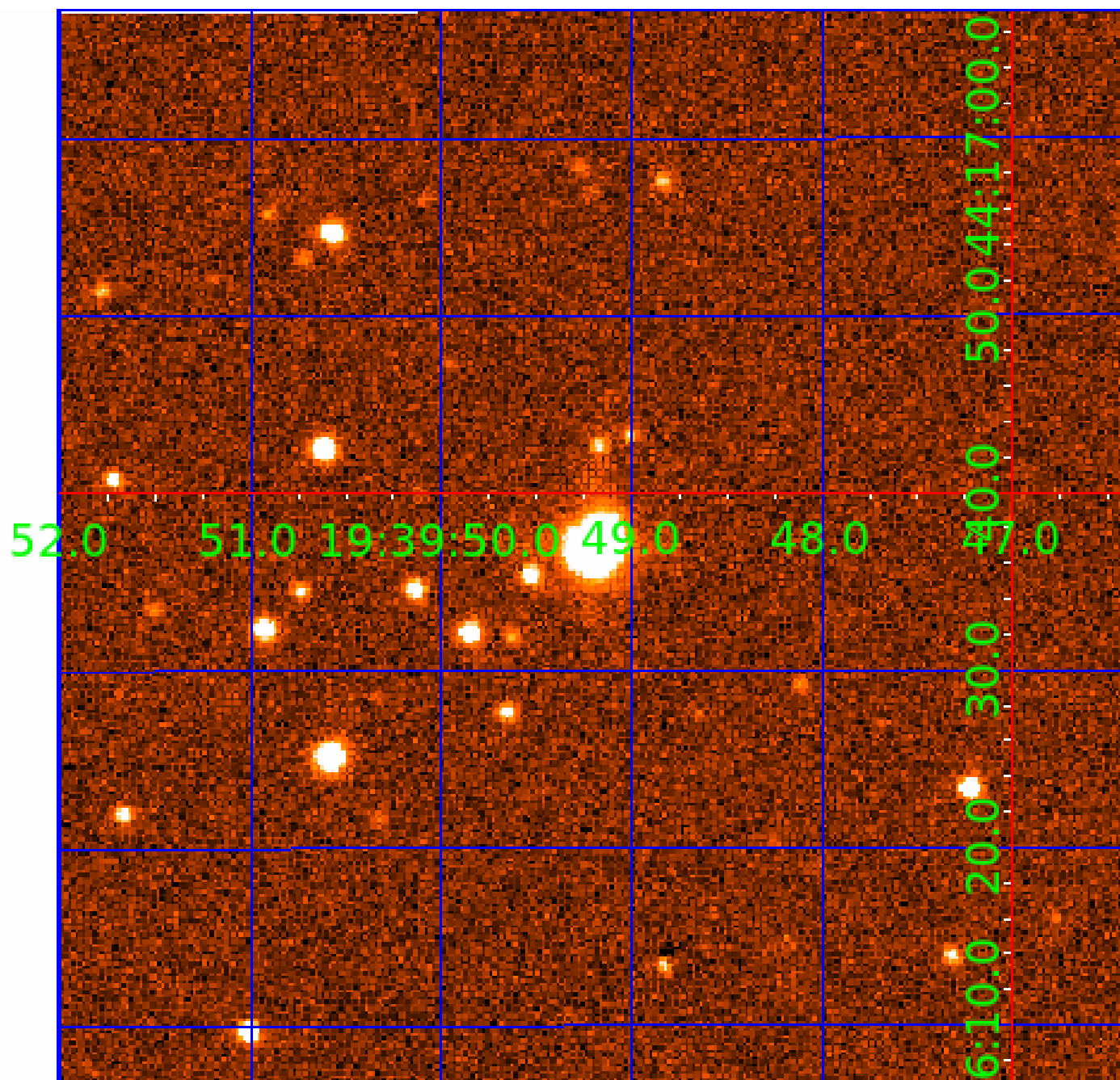


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008308526

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})
008308526-01	OBS	No	1.329146	132.050880	17.1	8.492	7.8	9.4	1.48	6472	0.62	5831.66
008308526-02	OBS	No	45.162525	133.630202	78.5	2.047	9.5	2.3	1.48	6472	1.53	52.99
008308526-03	OBS	No	38.449266	148.080058	150.4	7.925	8.7	8.7	1.48	6472	2.45	65.67
008308526-04	OBS	No	37.355570	158.018002	84.9	5.937	7.1	5.6	1.48	6472	1.59	68.25
008308526-05	OBS	No	83.541172	213.823865	239.8	3.923	8.6	8.2	1.48	6472	2.64	23.34
008308526-06	OBS	No	36.820089	158.168406	146.3	4.347	8.6	8.3	1.48	6472	1.94	69.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008308526-01	OBS	FP	0.00	1	0	0	0	LPP_DV
008308526-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
008308526-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
008308526-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008308526-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS—HALO_GHOST
008308526-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT

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

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

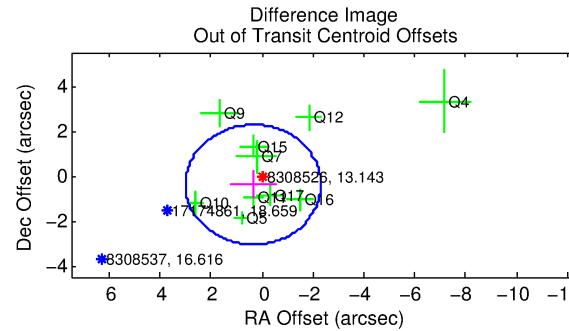
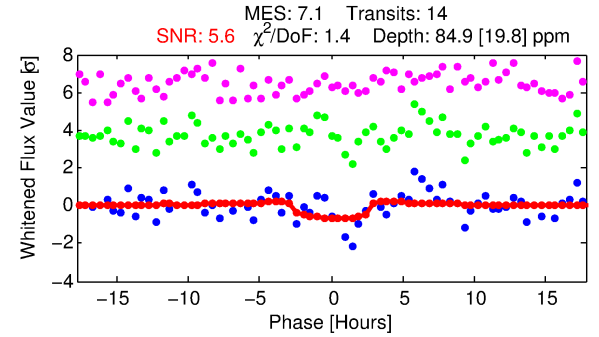
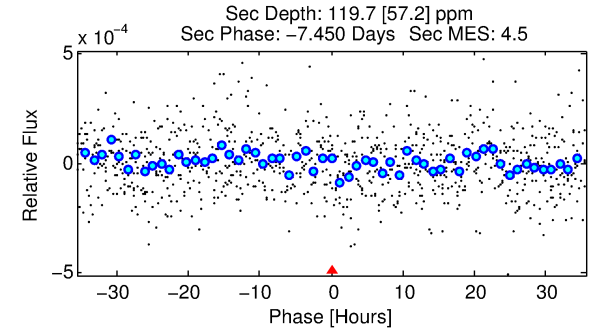
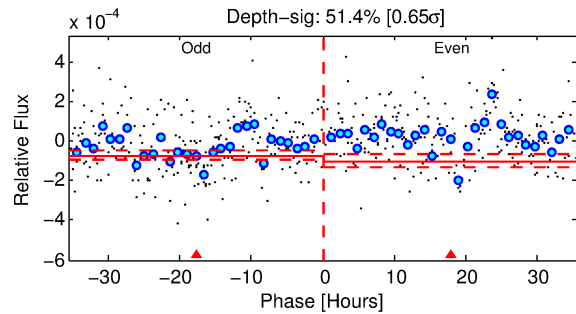
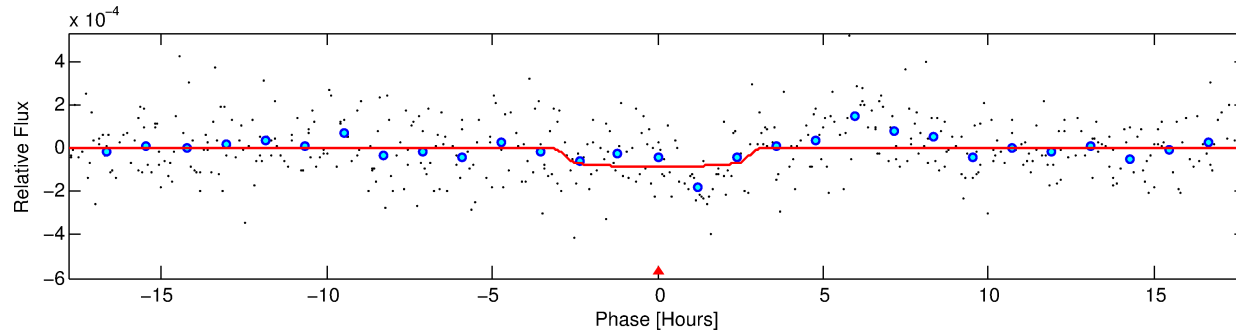
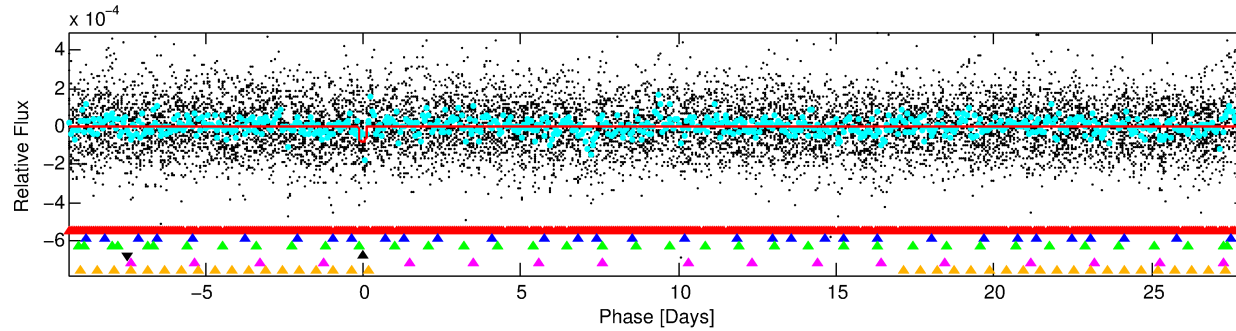
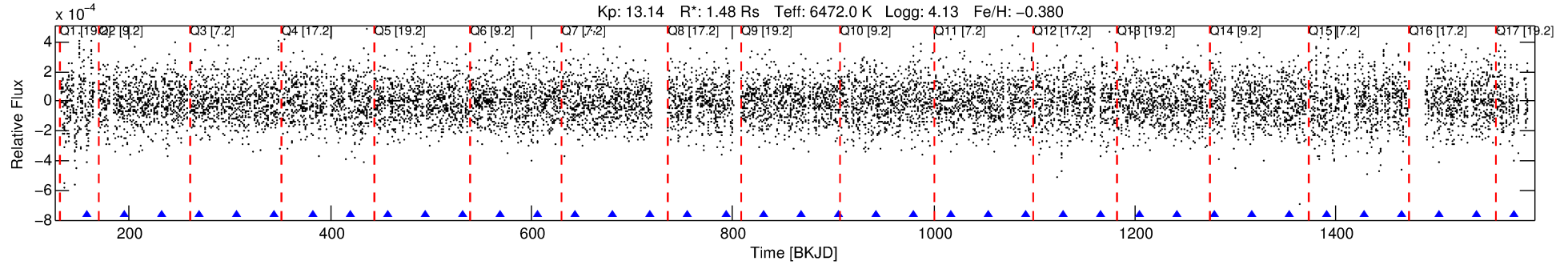
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008308526-04

No Significant Match Found

DV One-Page Summary

KIC: 8308526 Candidate: 4 of 6 Period: 37.356 d



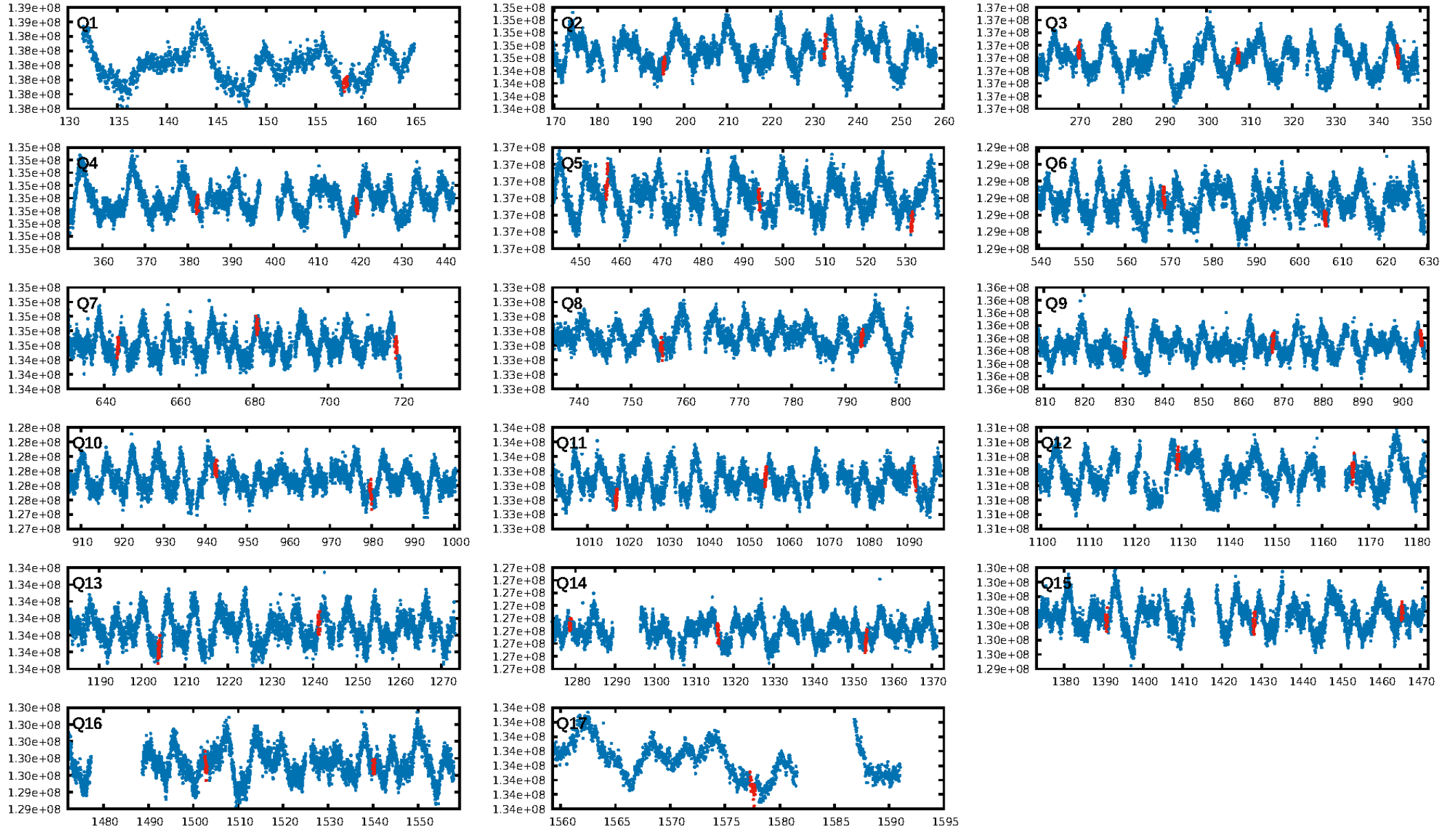
DV Fit Results:

Period = 37.35557 [0.00112] d
Epoch = 158.0180 [0.0246] BKJD
Rp/R* = 0.0098 [0.0060]
a/R* = 22.12 [75.47]
b = 0.90 [0.74]
Seff = 68.25 [24.92]
Teq = 733 [67] K
Rp = 1.59 [1.05] Re
a = 0.2246 [0.0501] AU
Ag = 1313.10 [1785.15] [0.74 σ]
Teffp = 6821 [2252] K [2.70 σ]

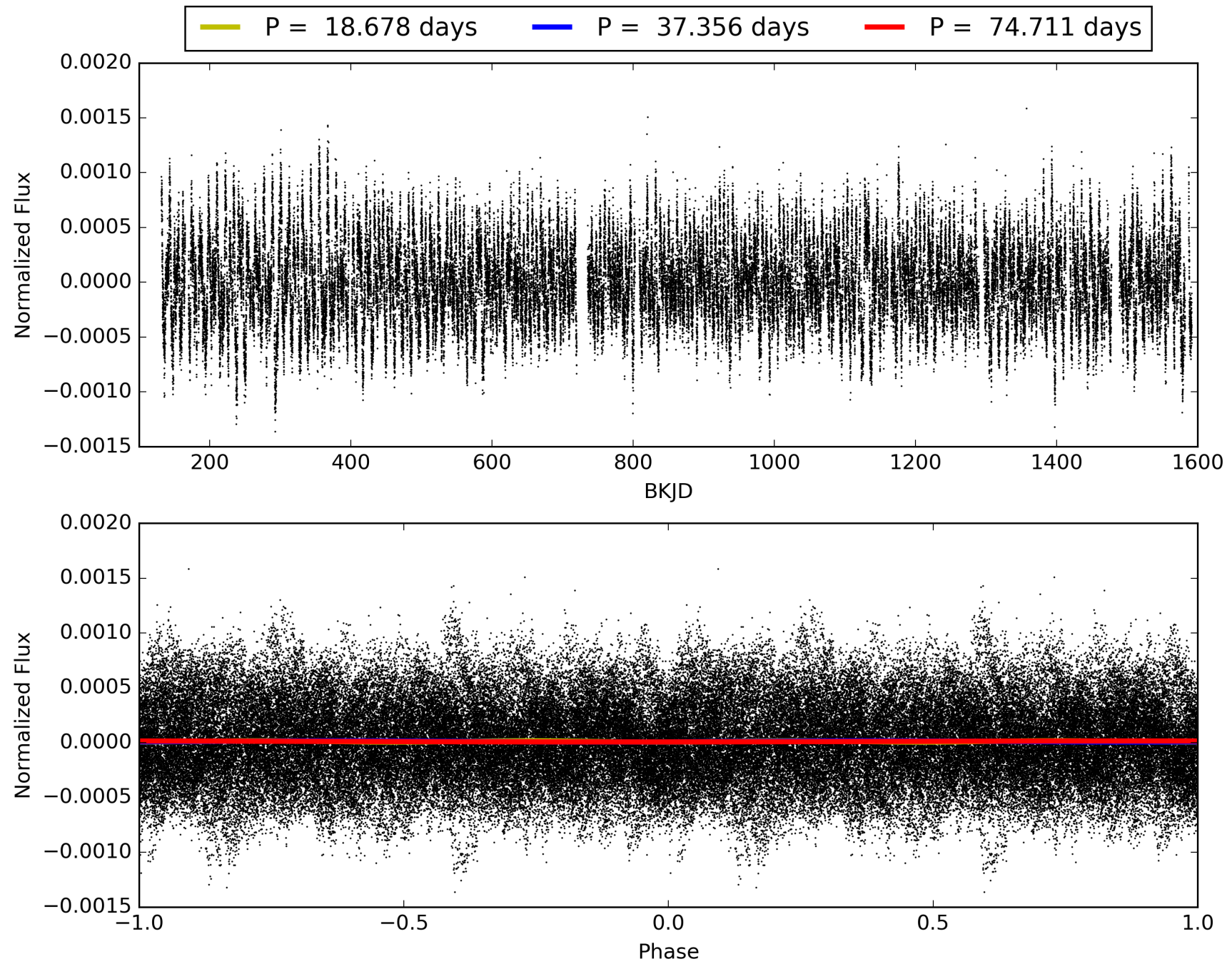
DV Diagnostic Results:

ShortPeriod-sig: 91.9% [1.75 σ]
LongPeriod-sig: 99.2% [2.65 σ]
ModelChiSquare2-sig: 52.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 4.33e-08
RollingBand-fgt: 1.00 [12/12]
GhostDiagnostic-chr: -5.282
Centroid-sig: 15.8%
Centroid-so: 1.487 arcsec [1.41 σ]
OotOffset-rm: 0.522 arcsec [0.59 σ]
KicOffset-rm: 0.560 arcsec [0.66 σ]
OotOffset-st: 1/3/3/3 [10]
KicOffset-st: 1/3/3/3 [10]
DiffImageQuality-fgm: 0.40 [4/10]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 008308526-04, PDC Light Curves

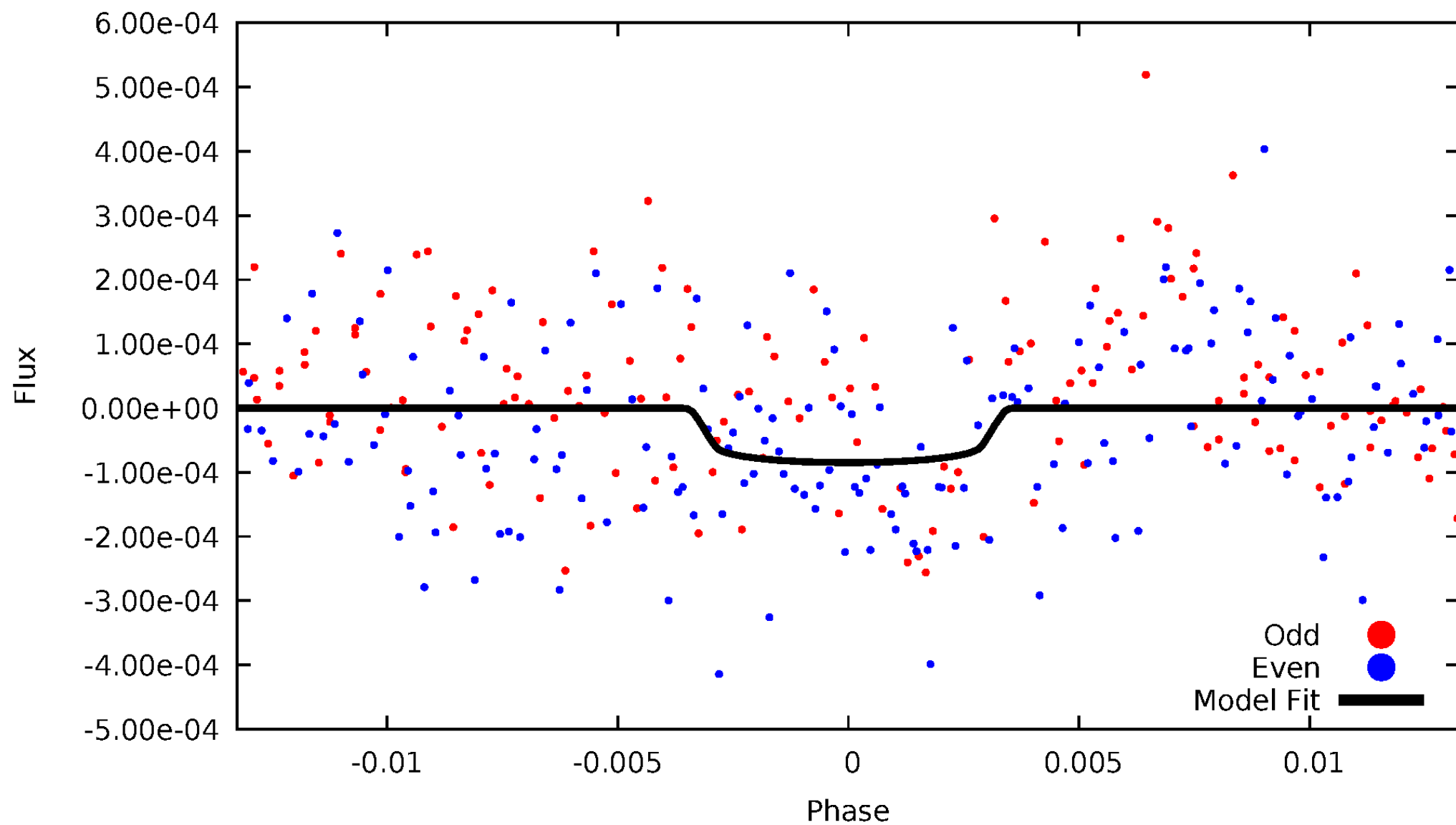


TCE 008308526-04



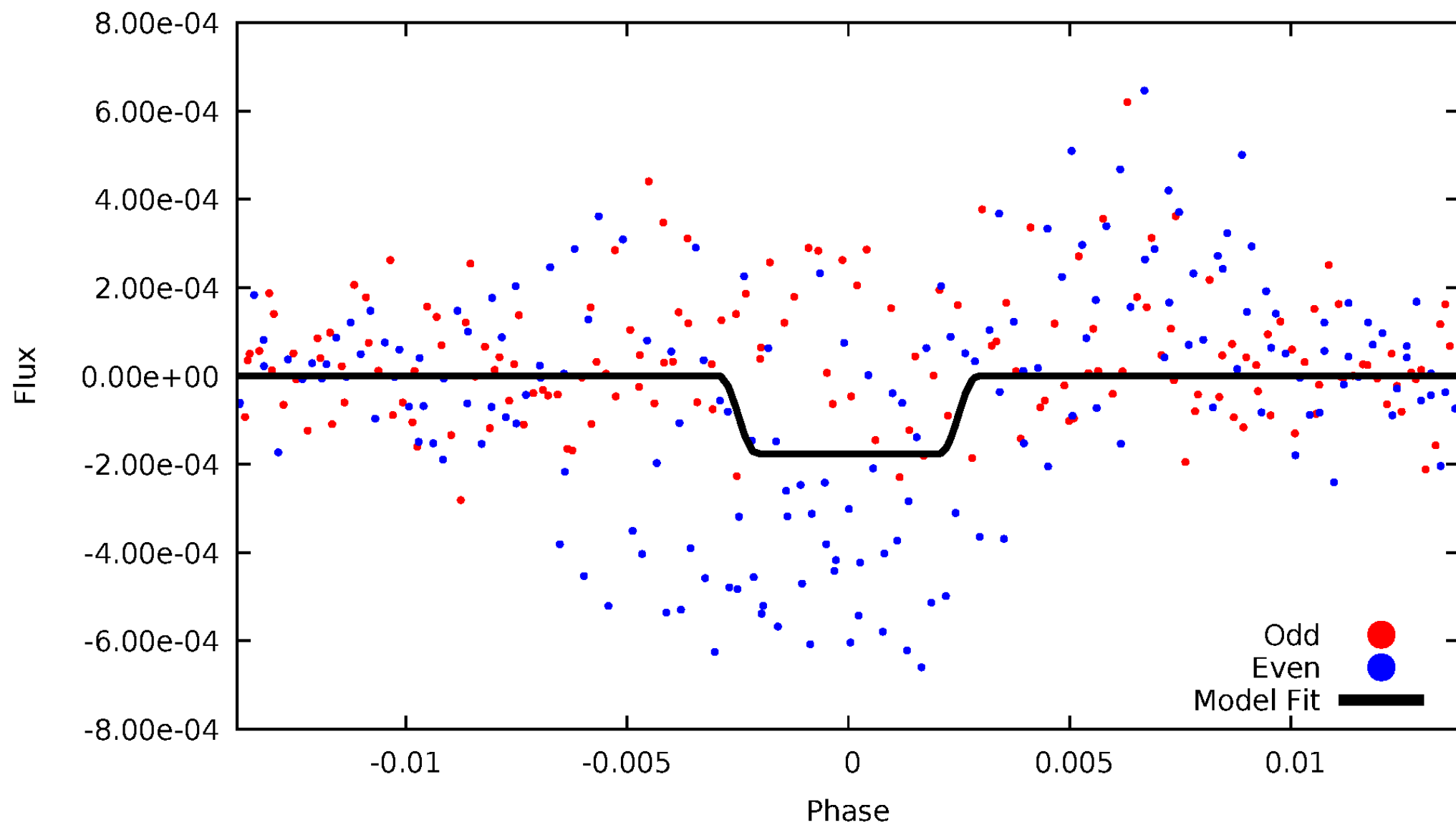
DV Odd/Even

TCE 008308526-04



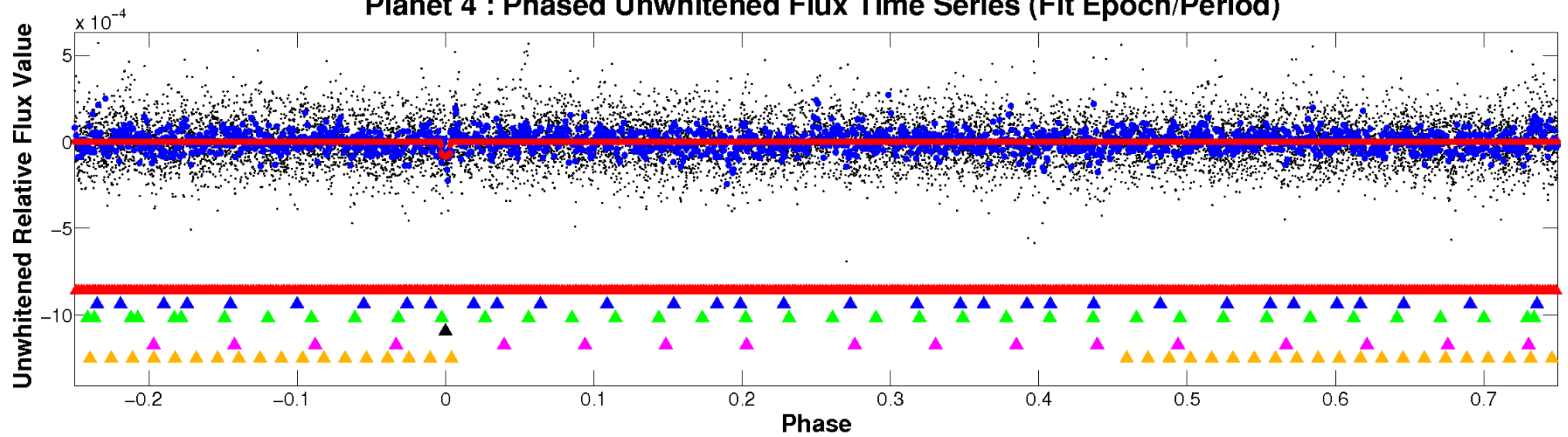
ALT Odd/Even

TCE 008308526-04

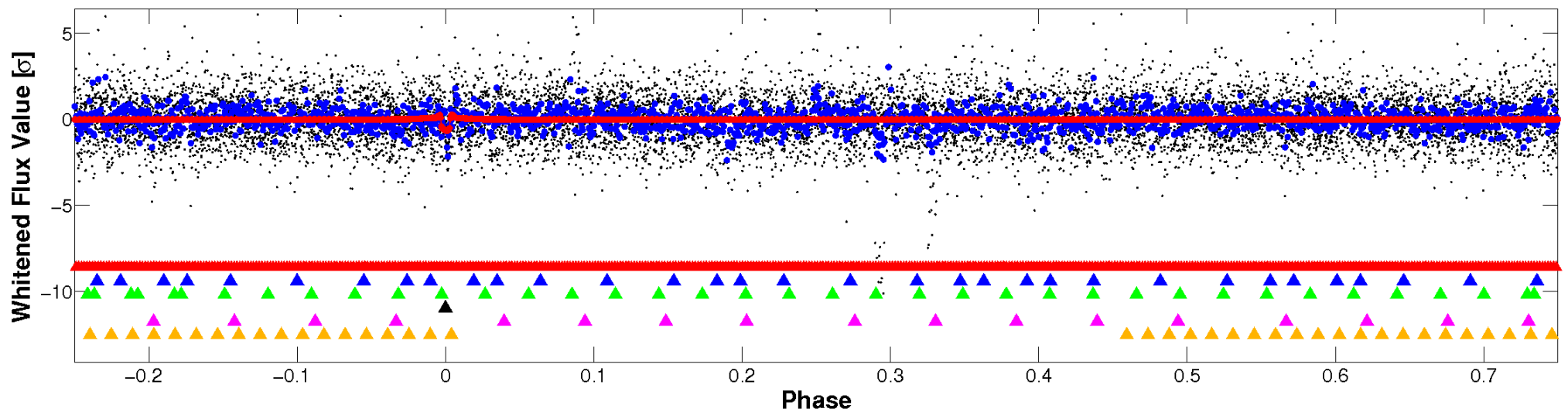


Non-Whitened Vs. Whitened Light Curve

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

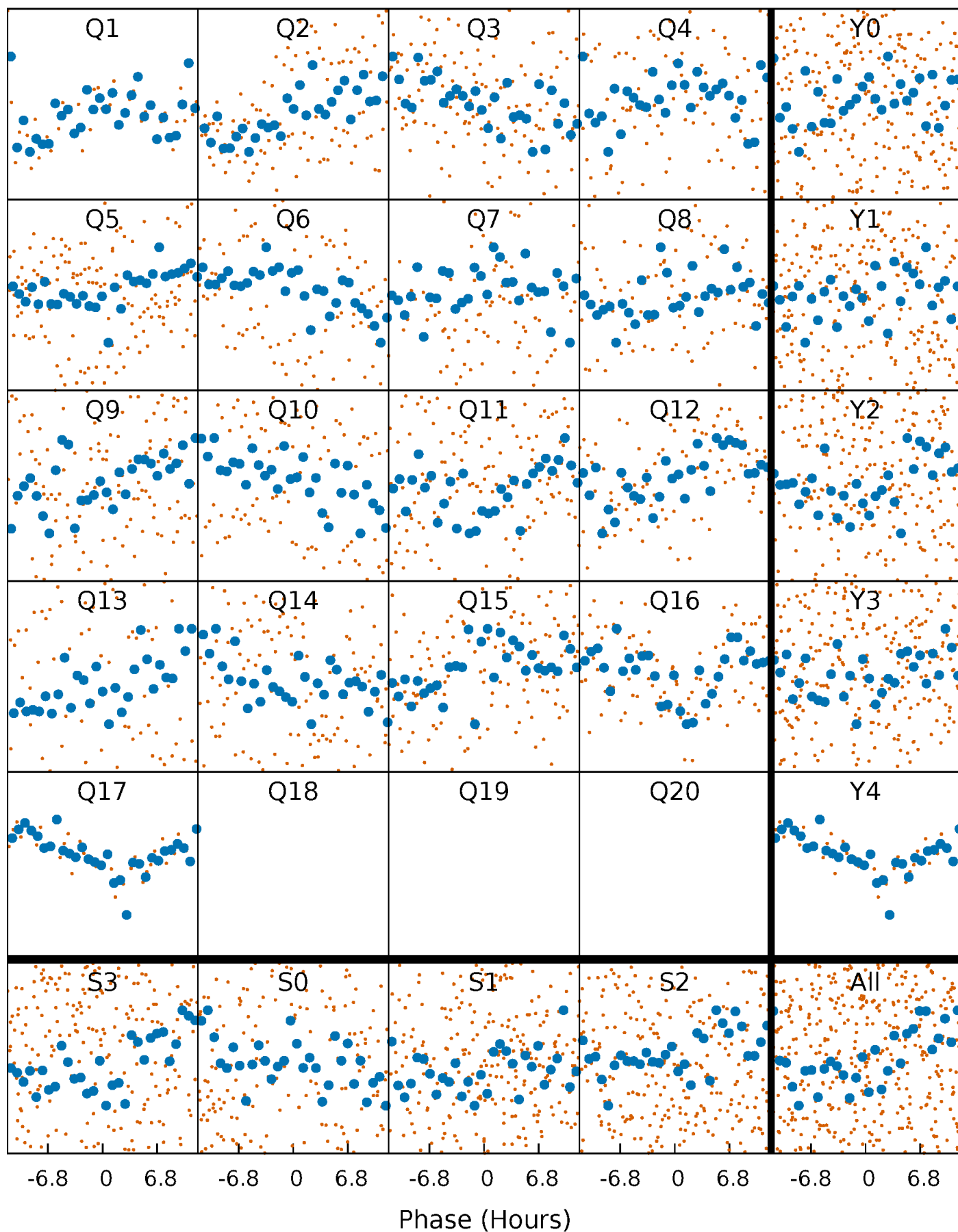


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



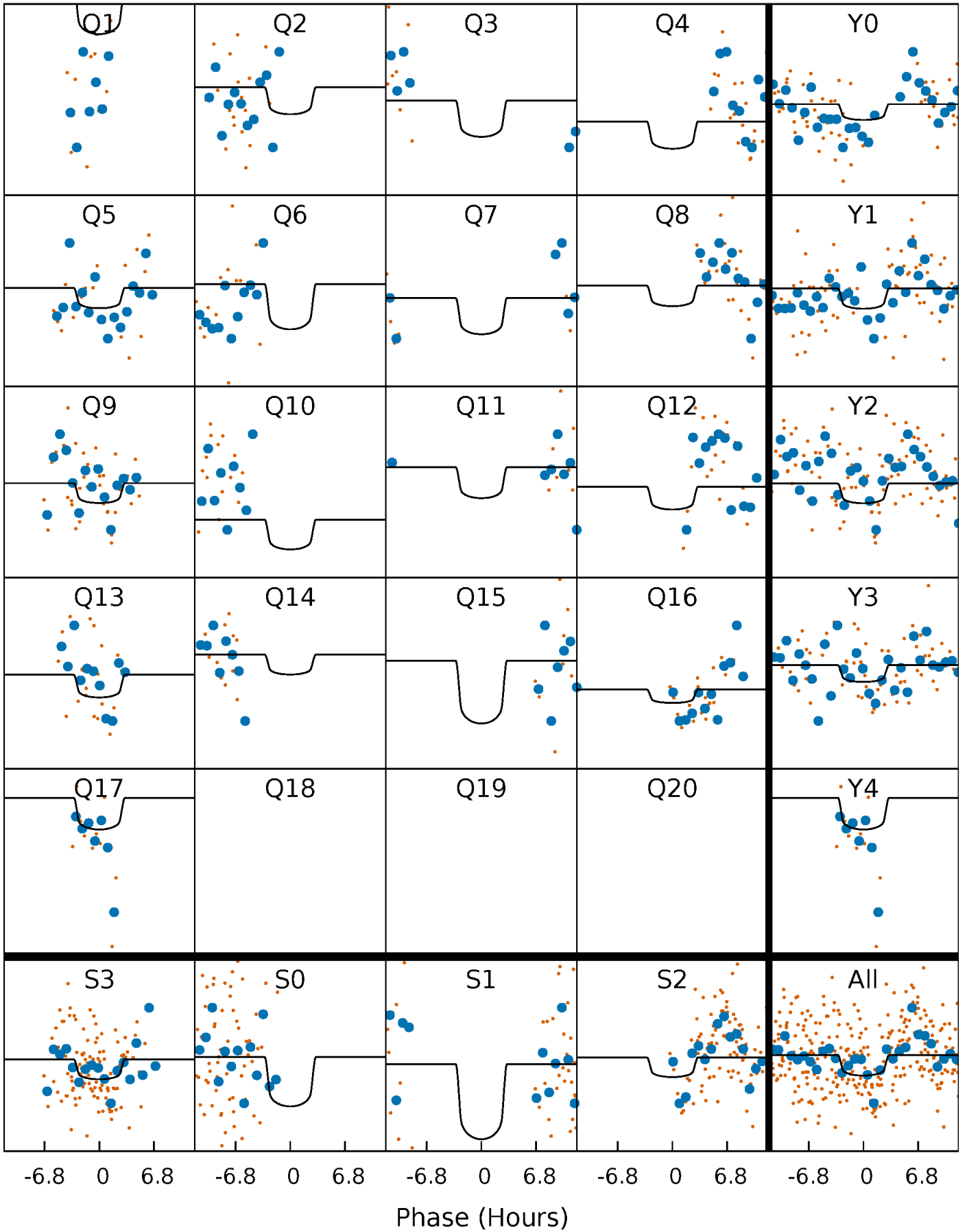
PDC Quarter-Phased Transit Curves

TCE 008308526-04 P= 37.355570 Days $T_0=158.018002$ (BKJD)



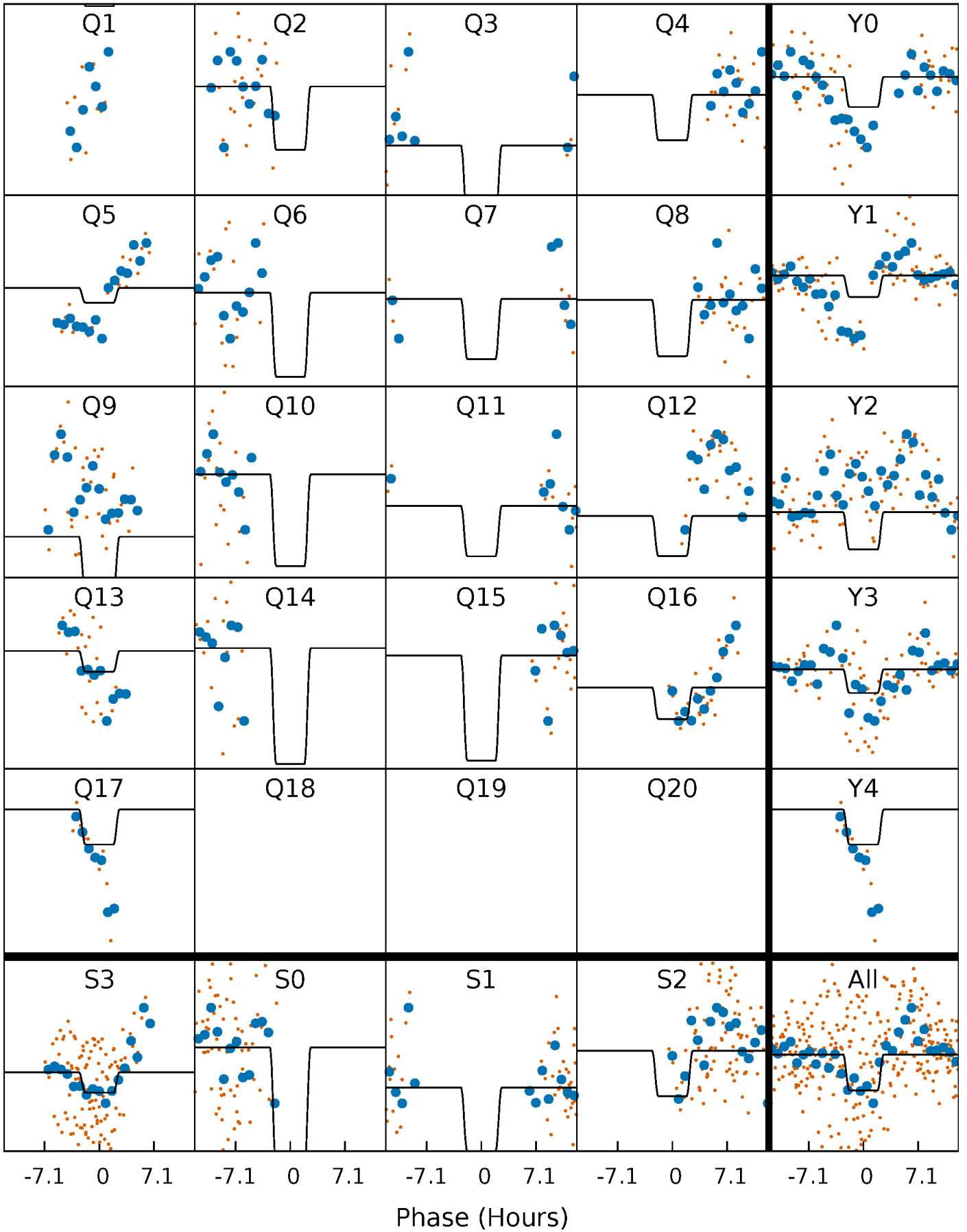
DV Quarter-Phased Transit Curves

TCE 008308526-04 P= 37.355570 Days $T_0=158.018002$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

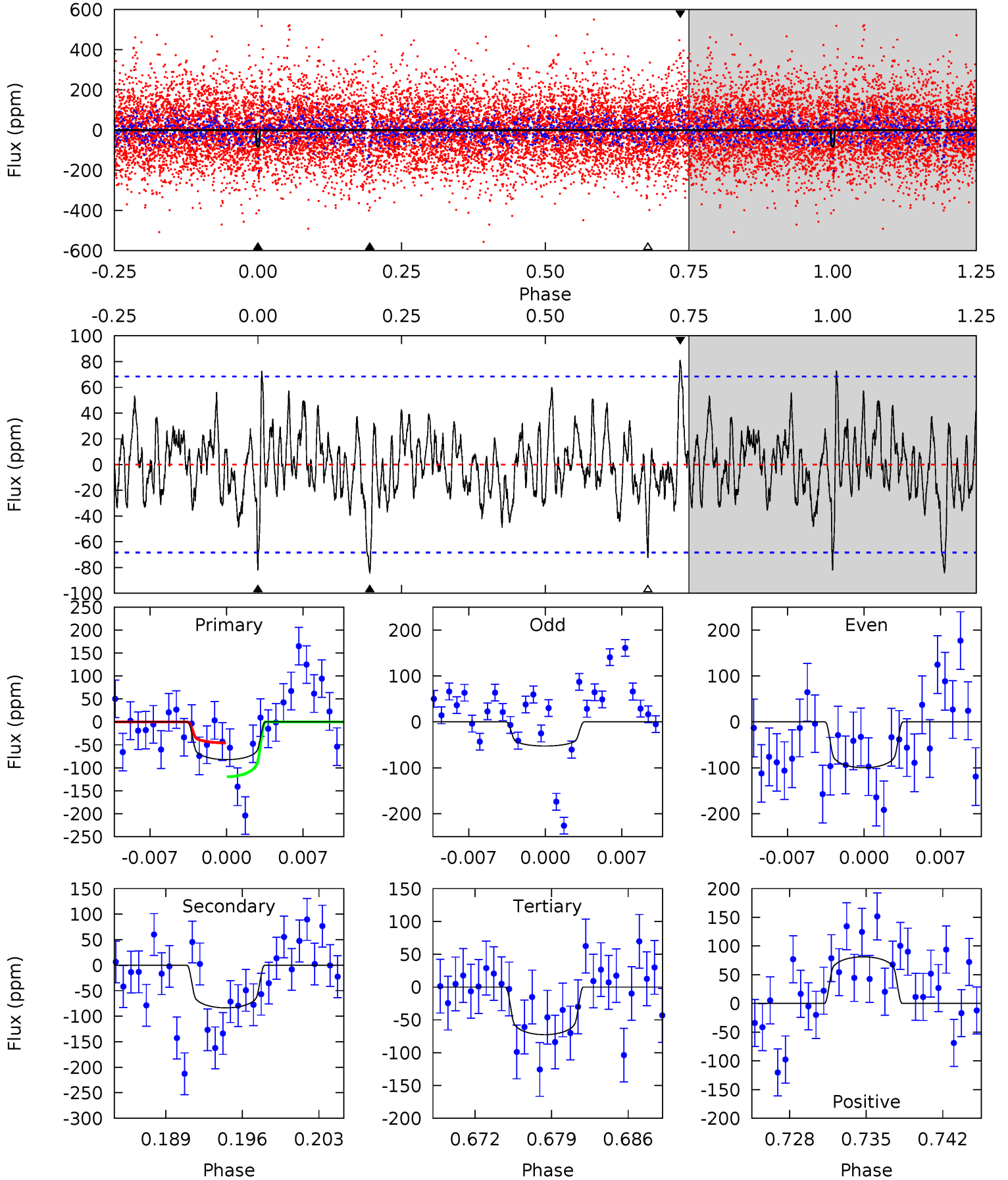
TCE 008308526-04 P= 37.355482 Days $T_0=158.025993$ (BKJD)



DV Model-Shift Uniqueness Test

008308526-04, P = 37.355570 Days, E = 120.662432 Days

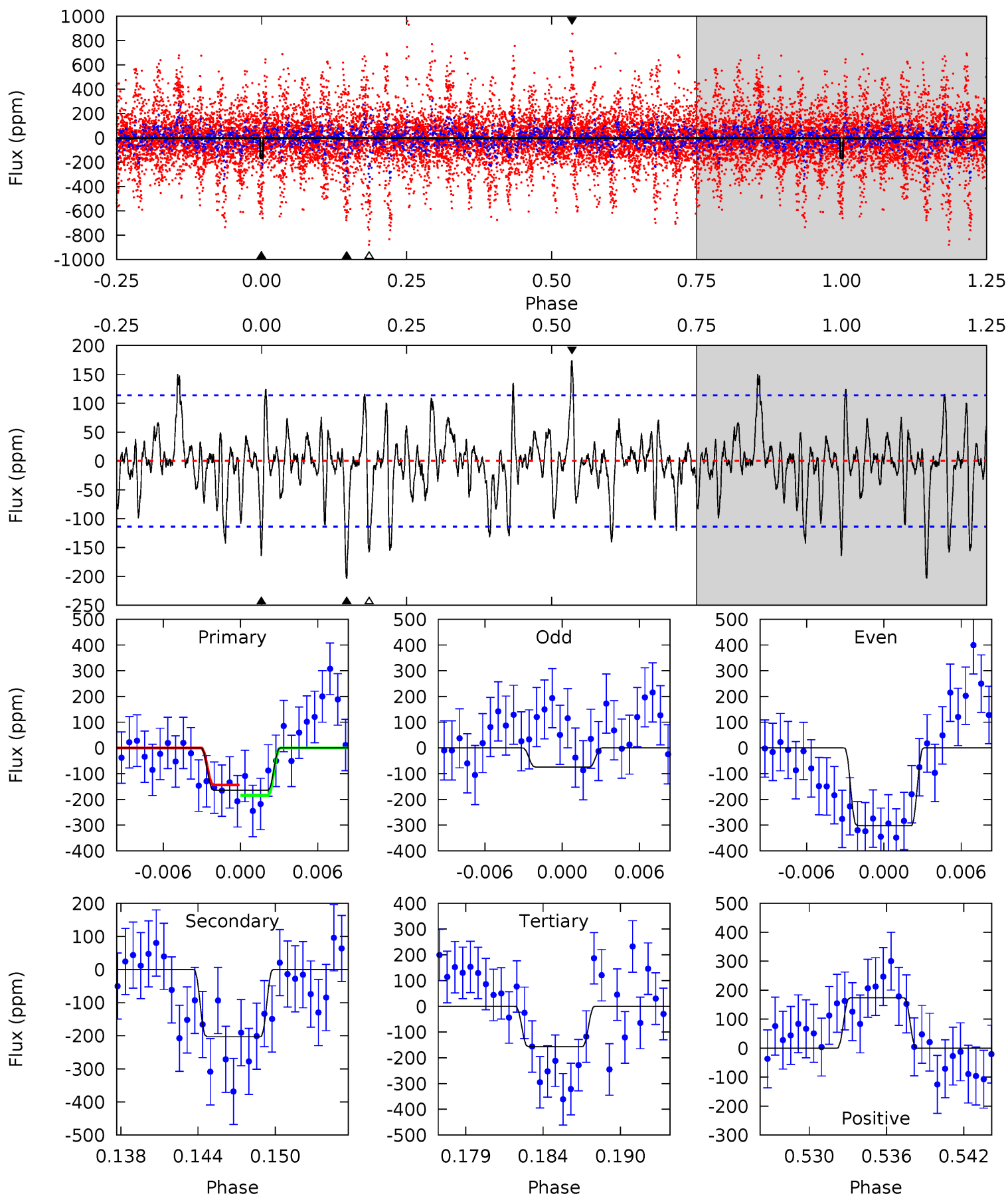
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.12	6.23	5.41	6.05	5.09	2.70	1.62	0.72	0.08	0.82	0.18	1.70	1.57	0.49	2.77



Alt Model-Shift Uniqueness Test

008308526-04, $P = 37.355482$ Days, $E = 120.670511$ 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	9.14	7.07	7.83	5.13	2.76	2.06	0.35	-0.41	2.07	1.31	4.98	4.82	0.46	0.92



Stellar Parameters For KIC 008308526

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6472^{+146}_{-194}	$4.132^{+0.198}_{-0.132}$	$-0.380^{+0.300}_{-0.300}$	$1.480^{+0.296}_{-0.362}$	$1.081^{+0.162}_{-0.133}$	$0.470^{+0.514}_{-0.184}$
	+2%/-3%	+5%/-3%	+79%/-79%	+20%/-24%	+15%/-12%	+109%/-39%
Source	PHO1	FLK73	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 008308526-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-84 ± 13	$1.65^{+1.10}_{-0.89}$	1018^{+56}_{-71}	6021^{+3532}_{-1198}	860^{+3291}_{-553}
Alt.	-203 ± 22	$2.12^{+0.99}_{-0.96}$	1016^{+62}_{-70}	6689^{+3051}_{-1178}	1279^{+2941}_{-704}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

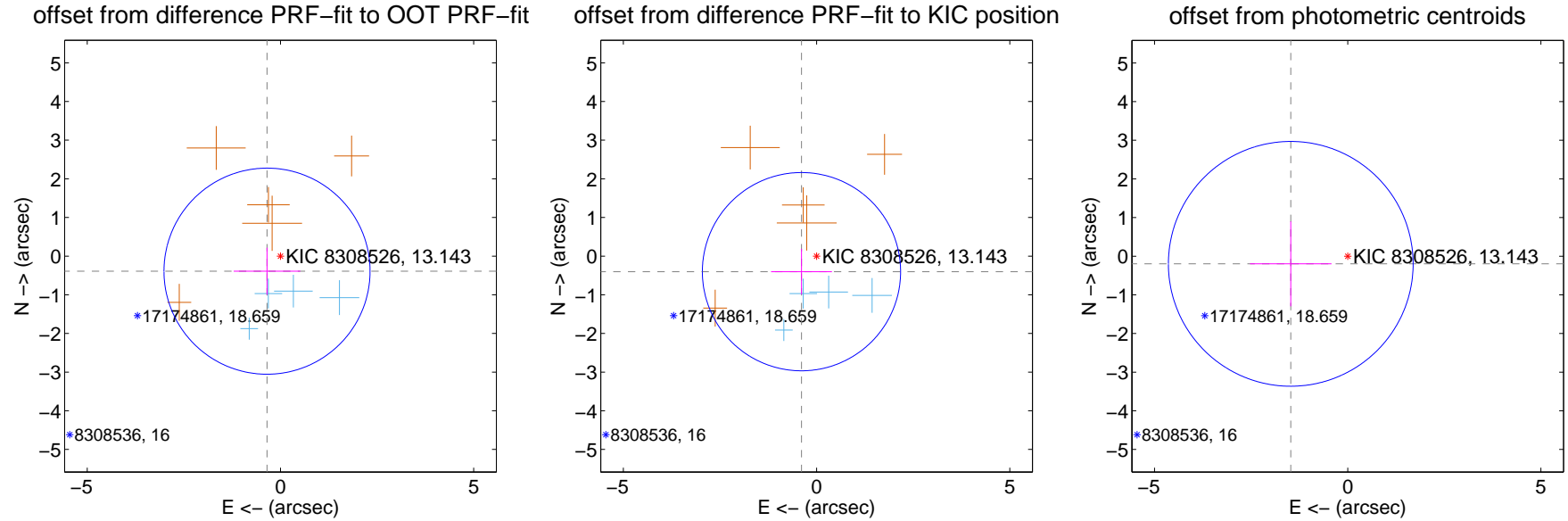
DV Centroid Data

Supplemental centroid analysis for 008308526-04. Kepler magnitude: 13.14. Transit SNR 5.62

There are 4 quarters with good PRF difference image offsets

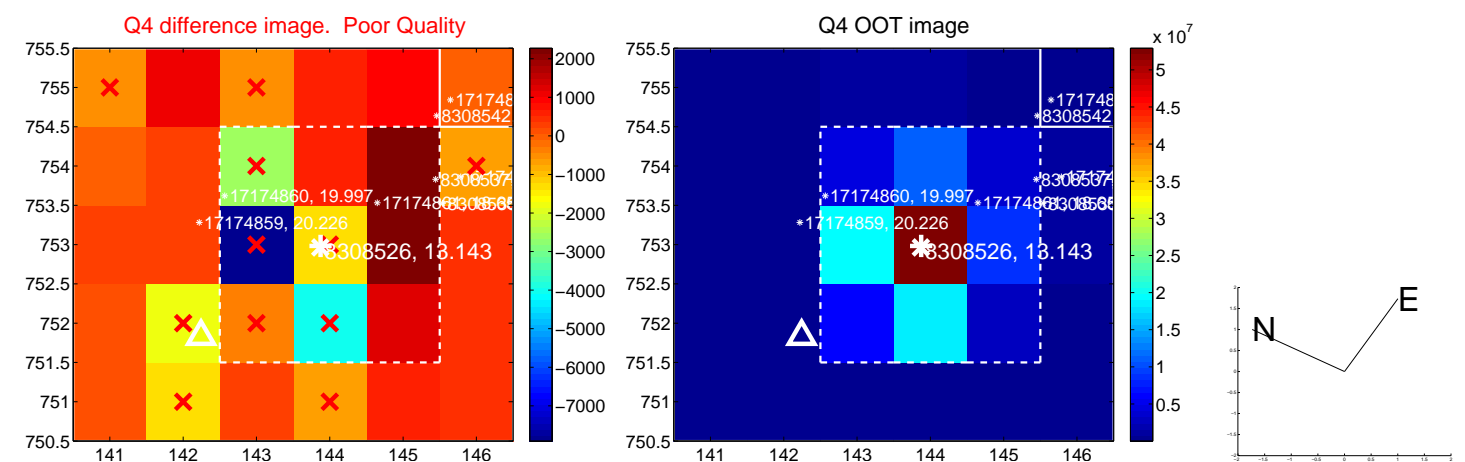
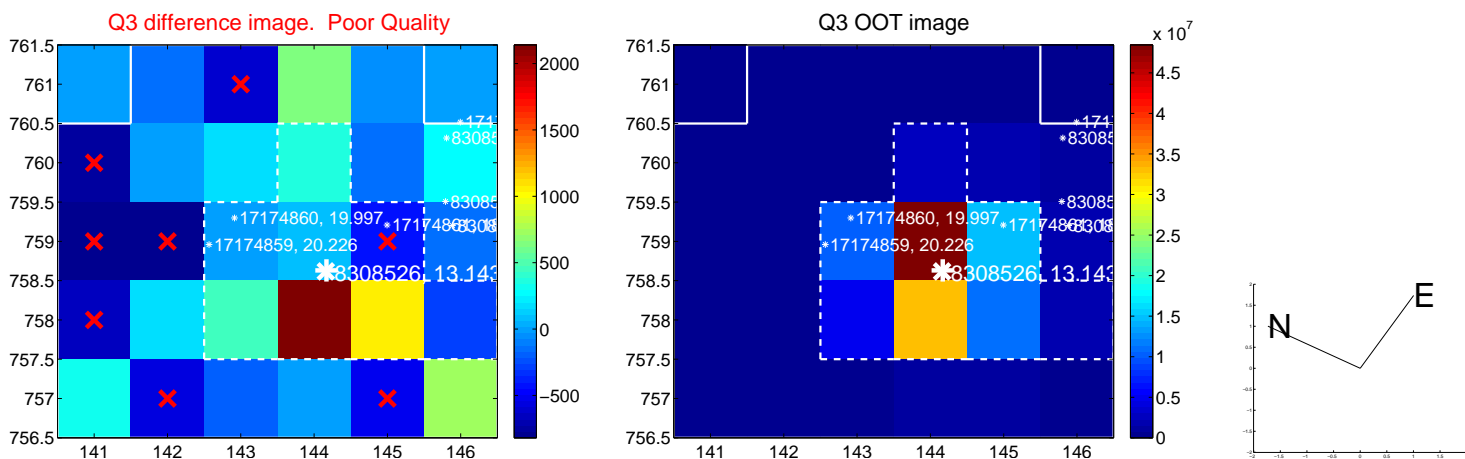
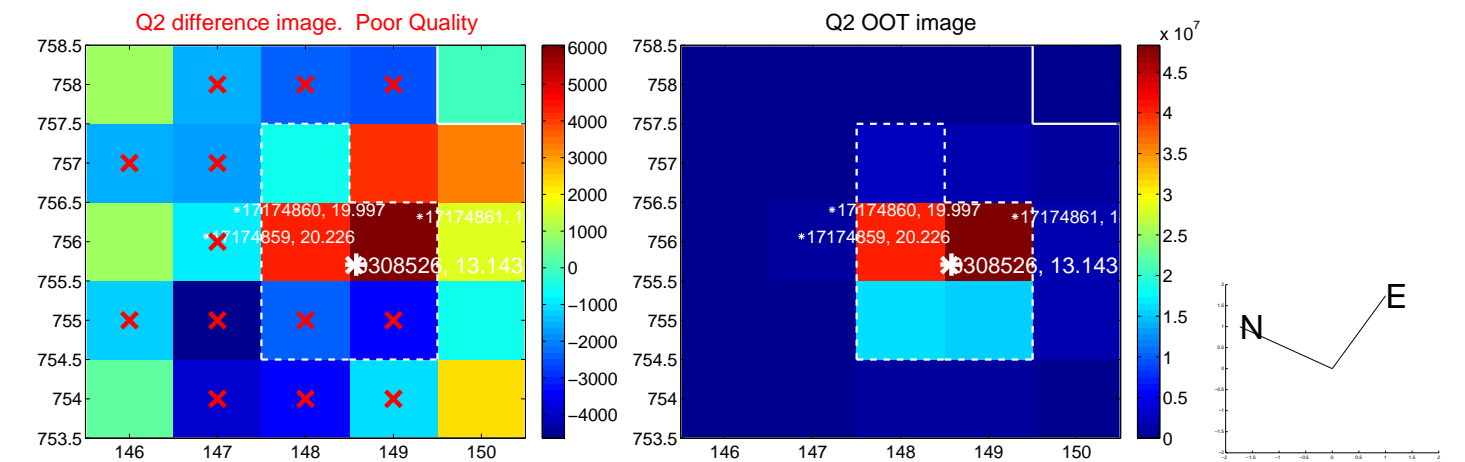
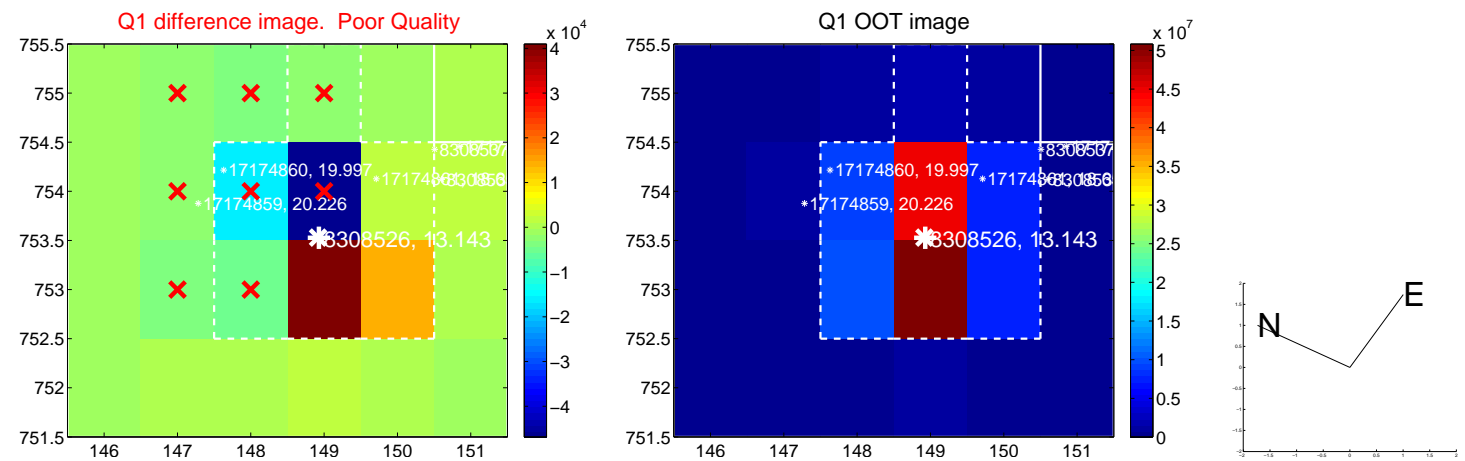
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.522 ± 0.888	0.59	0.348 ± 0.863	-0.389 ± 0.608
PRF-fit source offset from KIC position	0.560 ± 0.855	0.66	0.390 ± 0.788	-0.402 ± 0.590
photometric centroid source offset	1.49 ± 1.06	1.41	1.47 ± 1.05	-0.20 ± 1.10

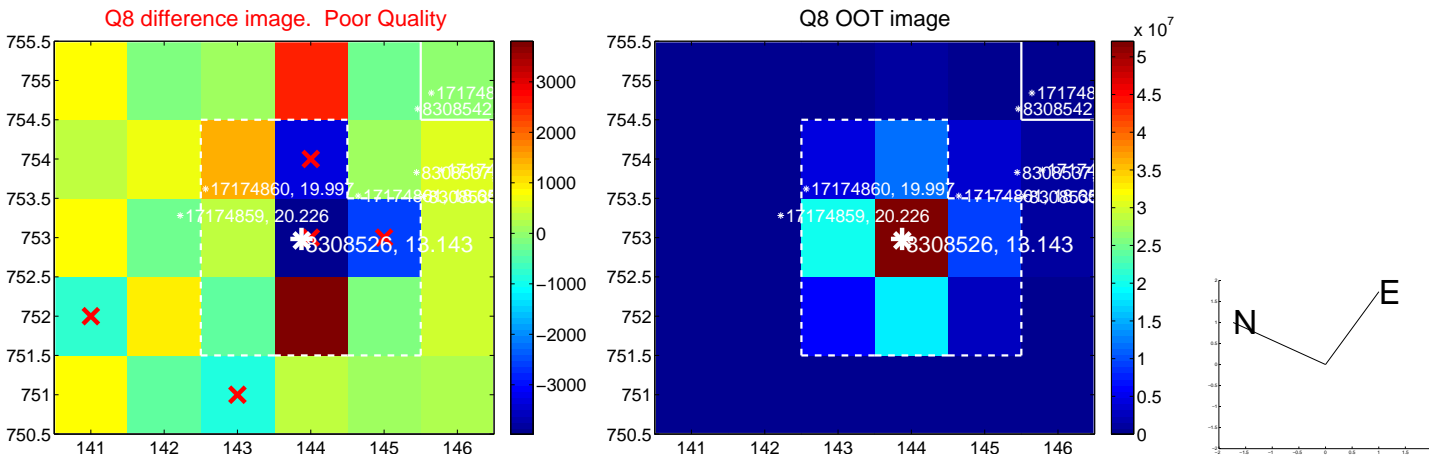
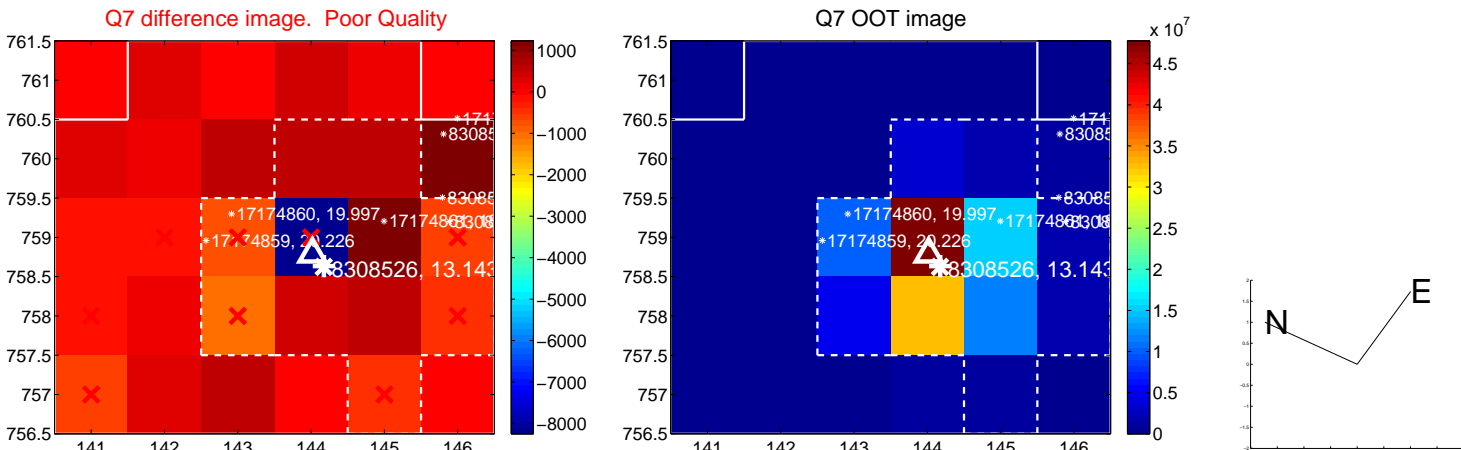
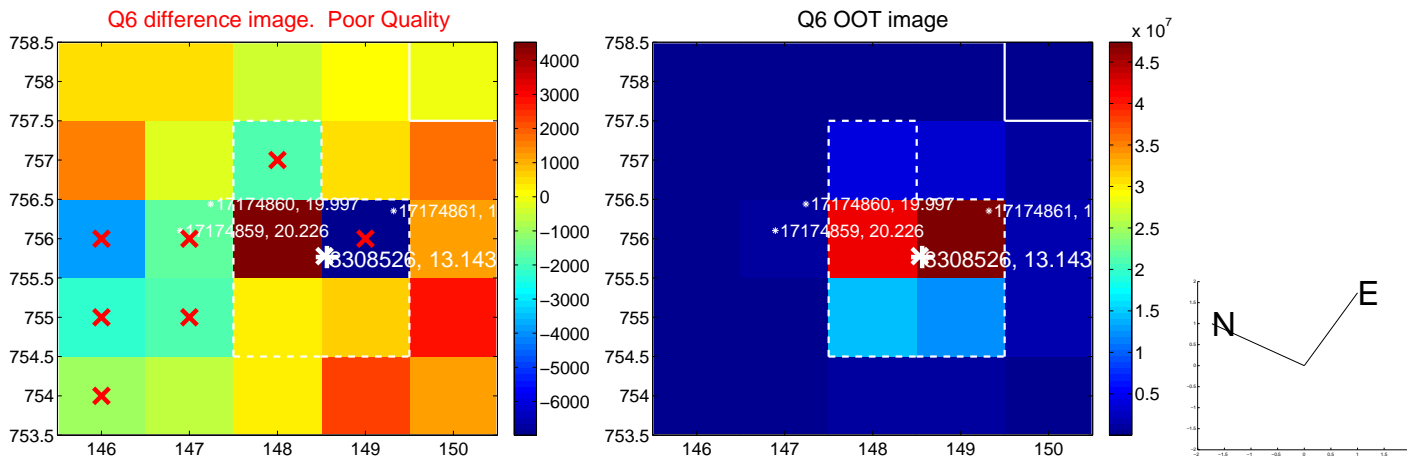
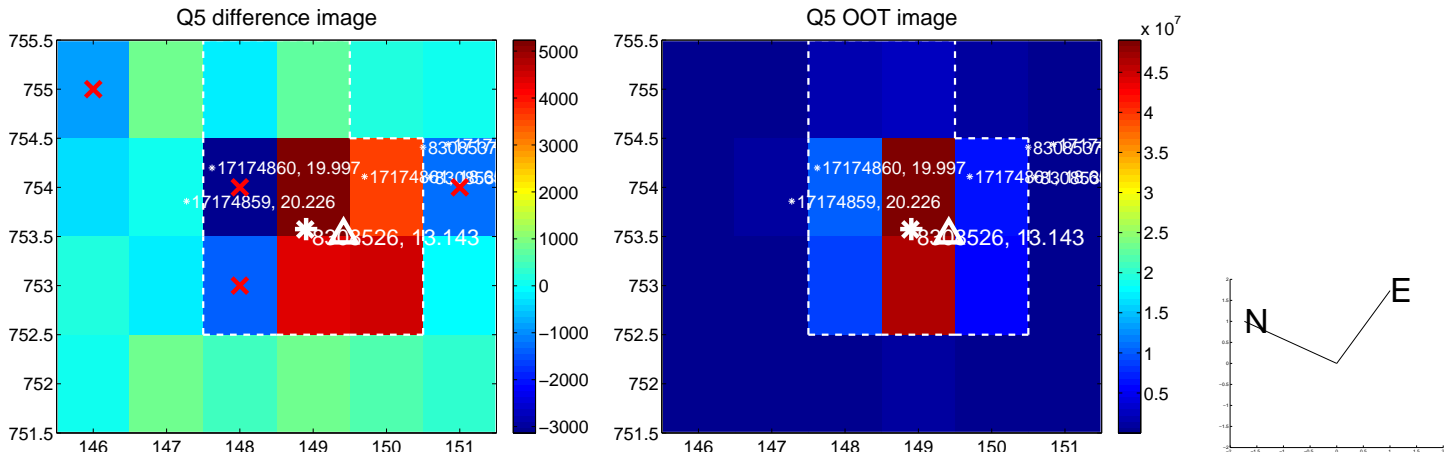


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

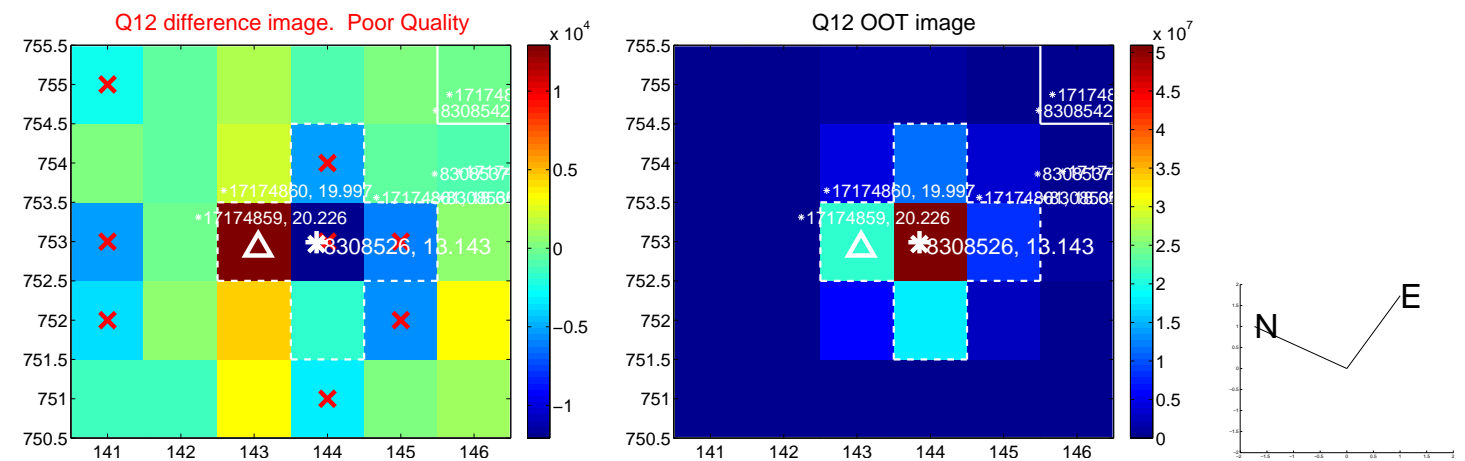
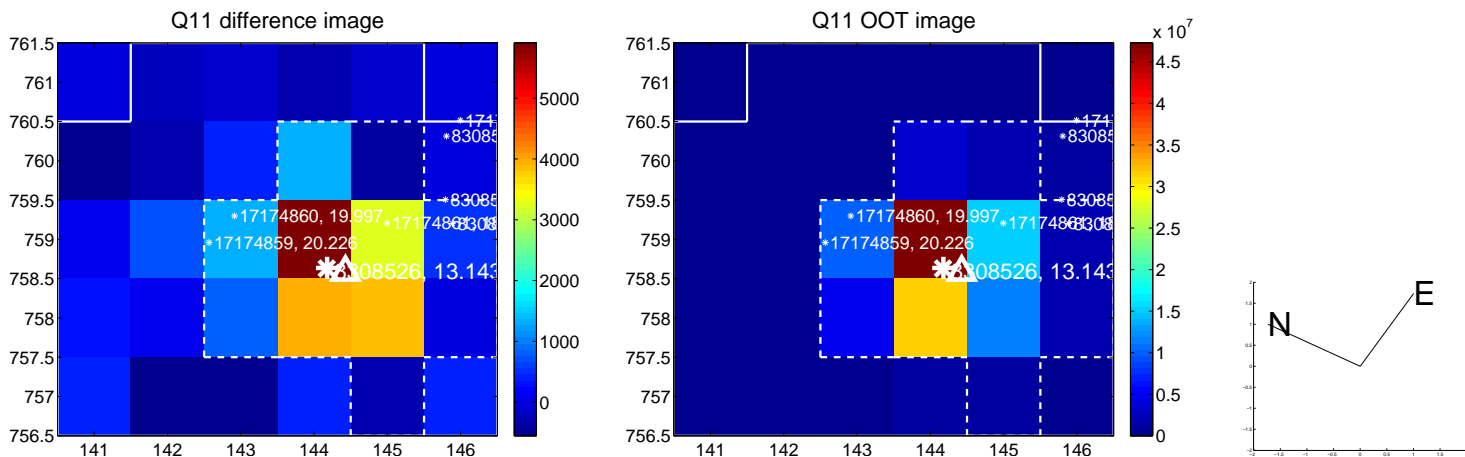
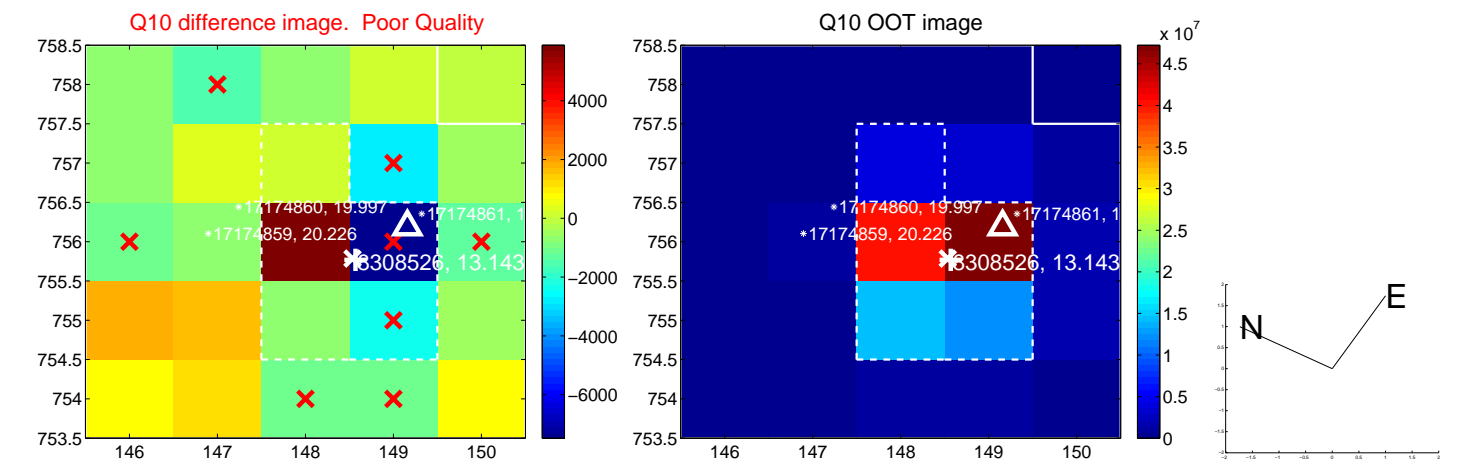
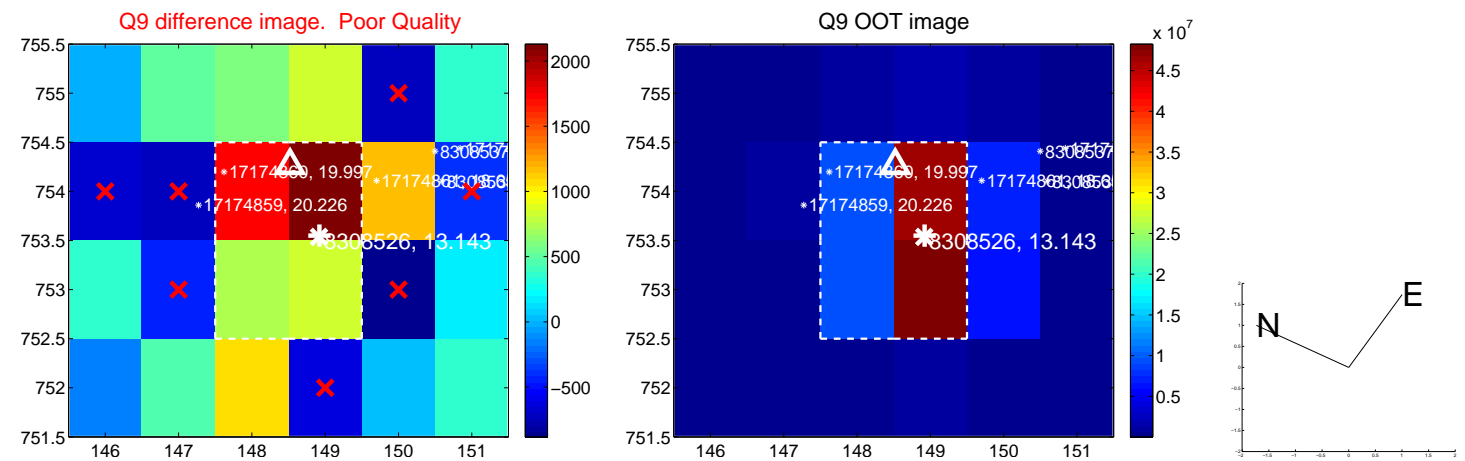
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



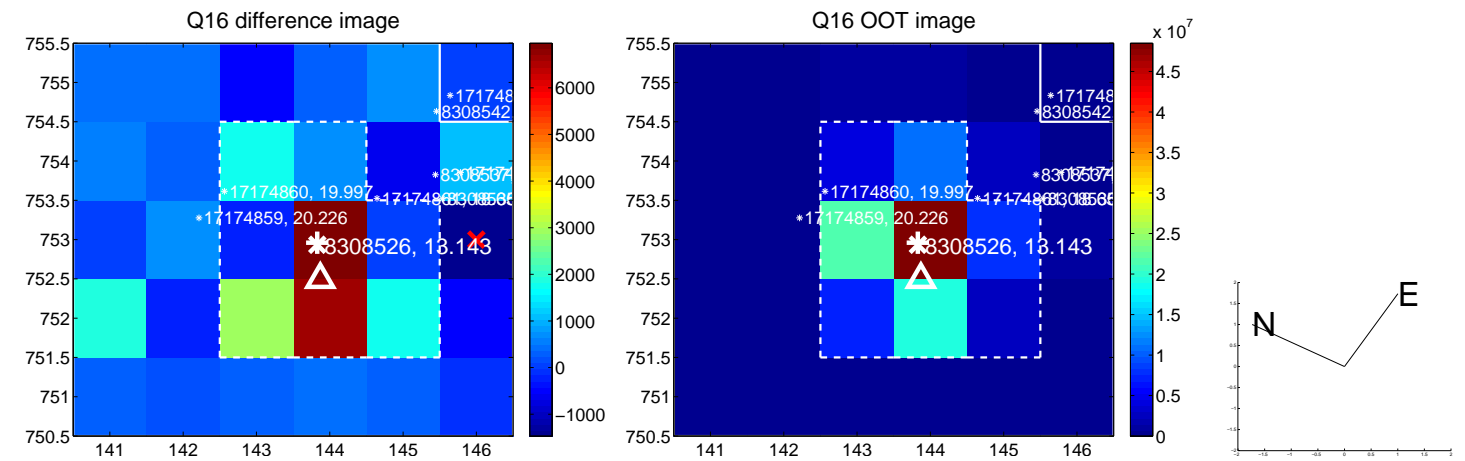
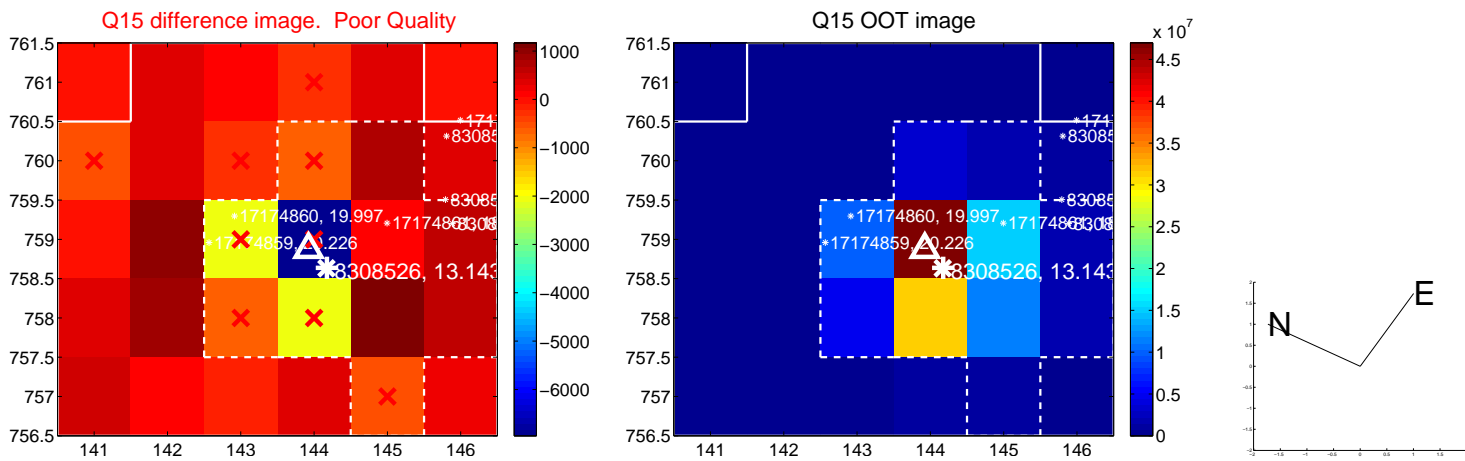
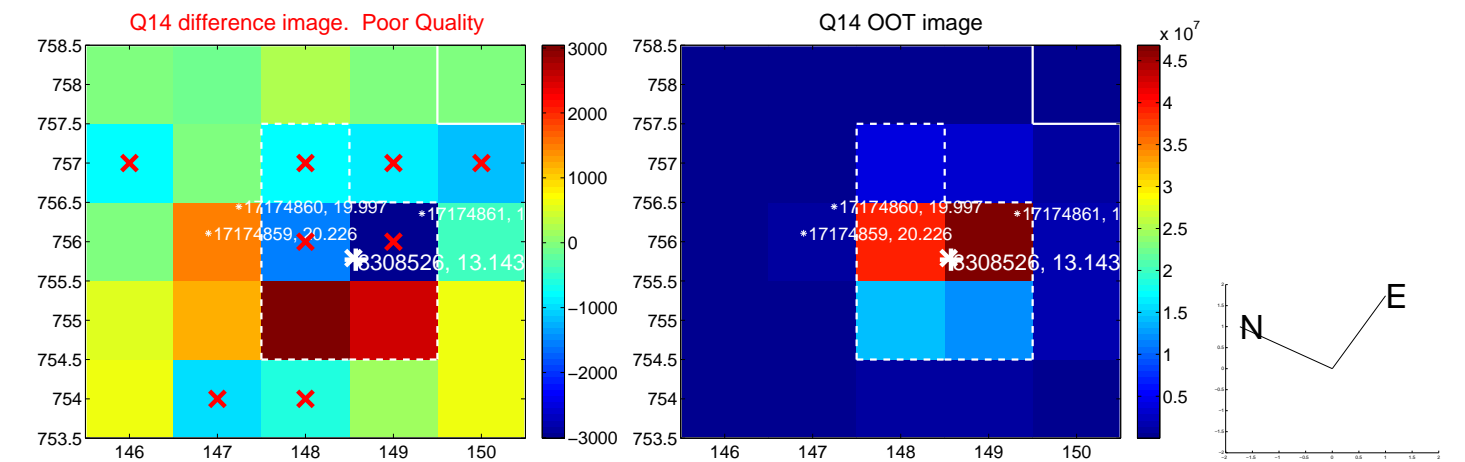
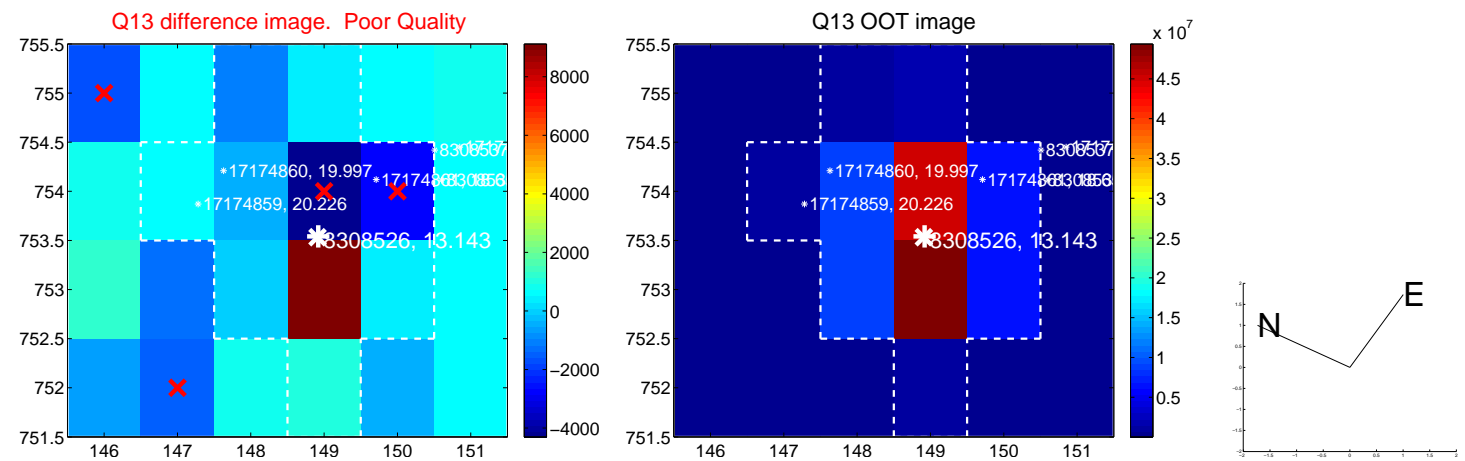
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



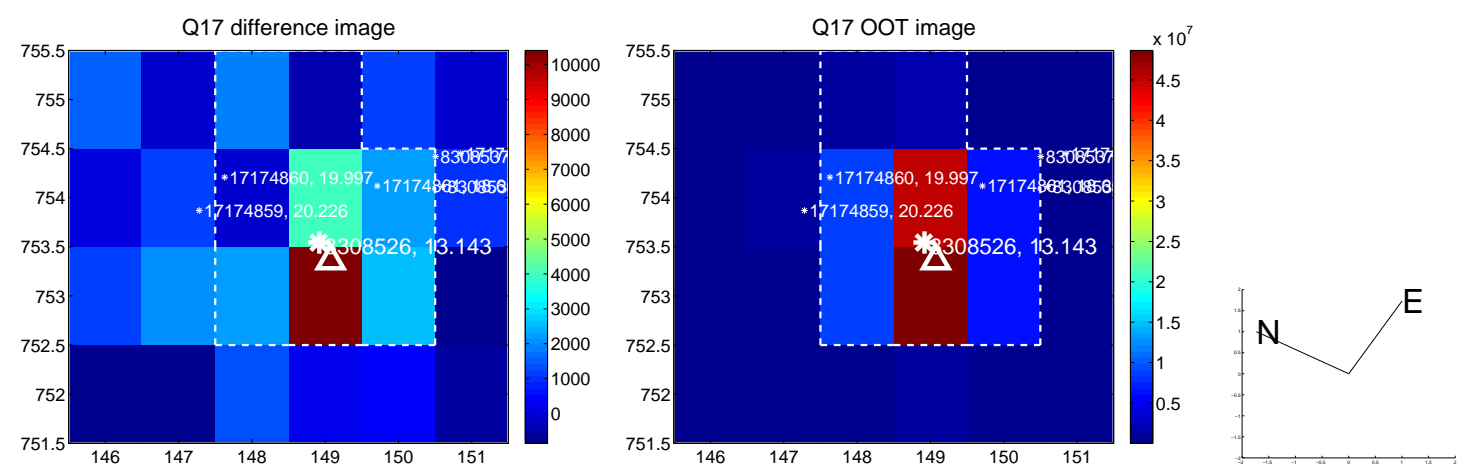
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



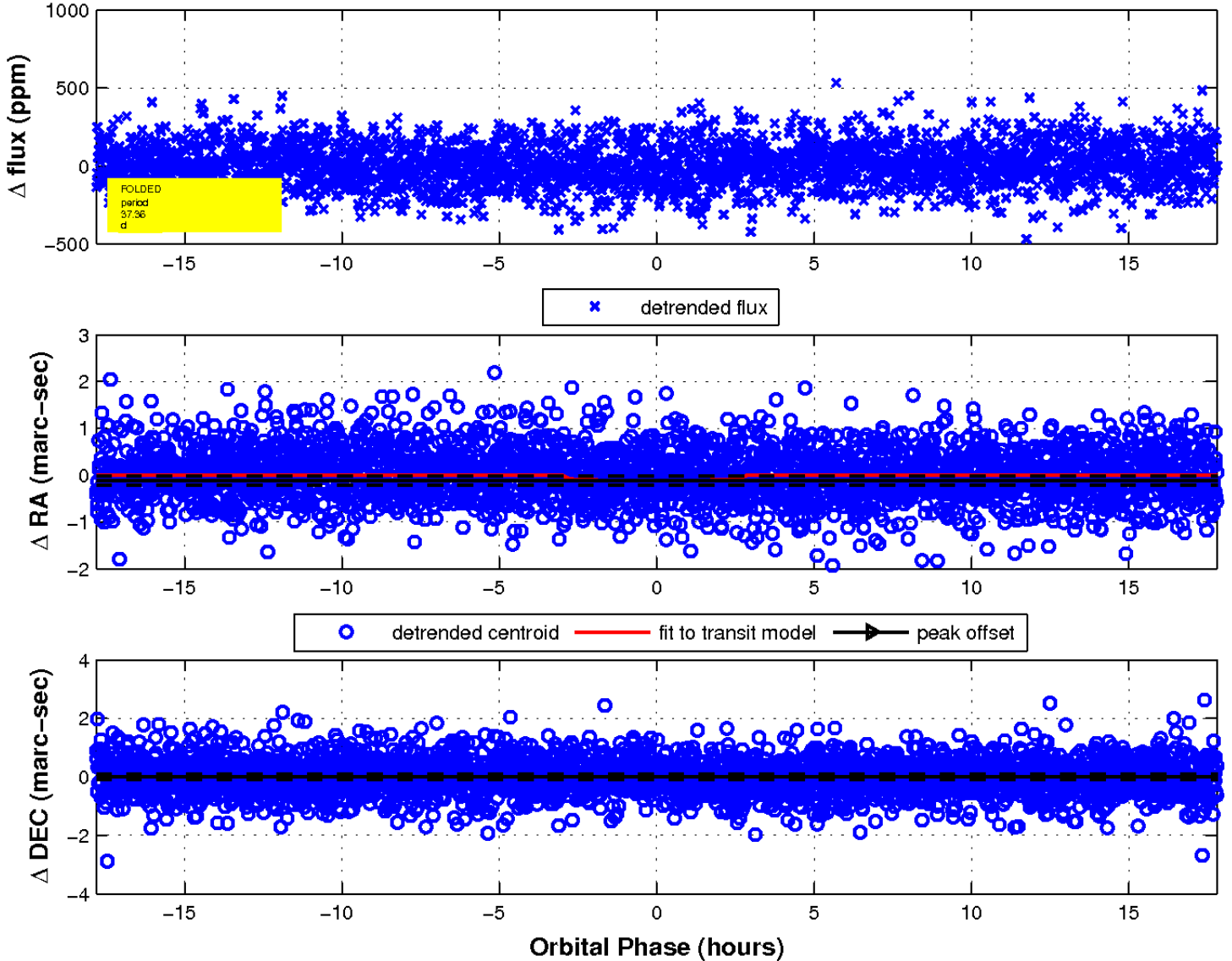
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

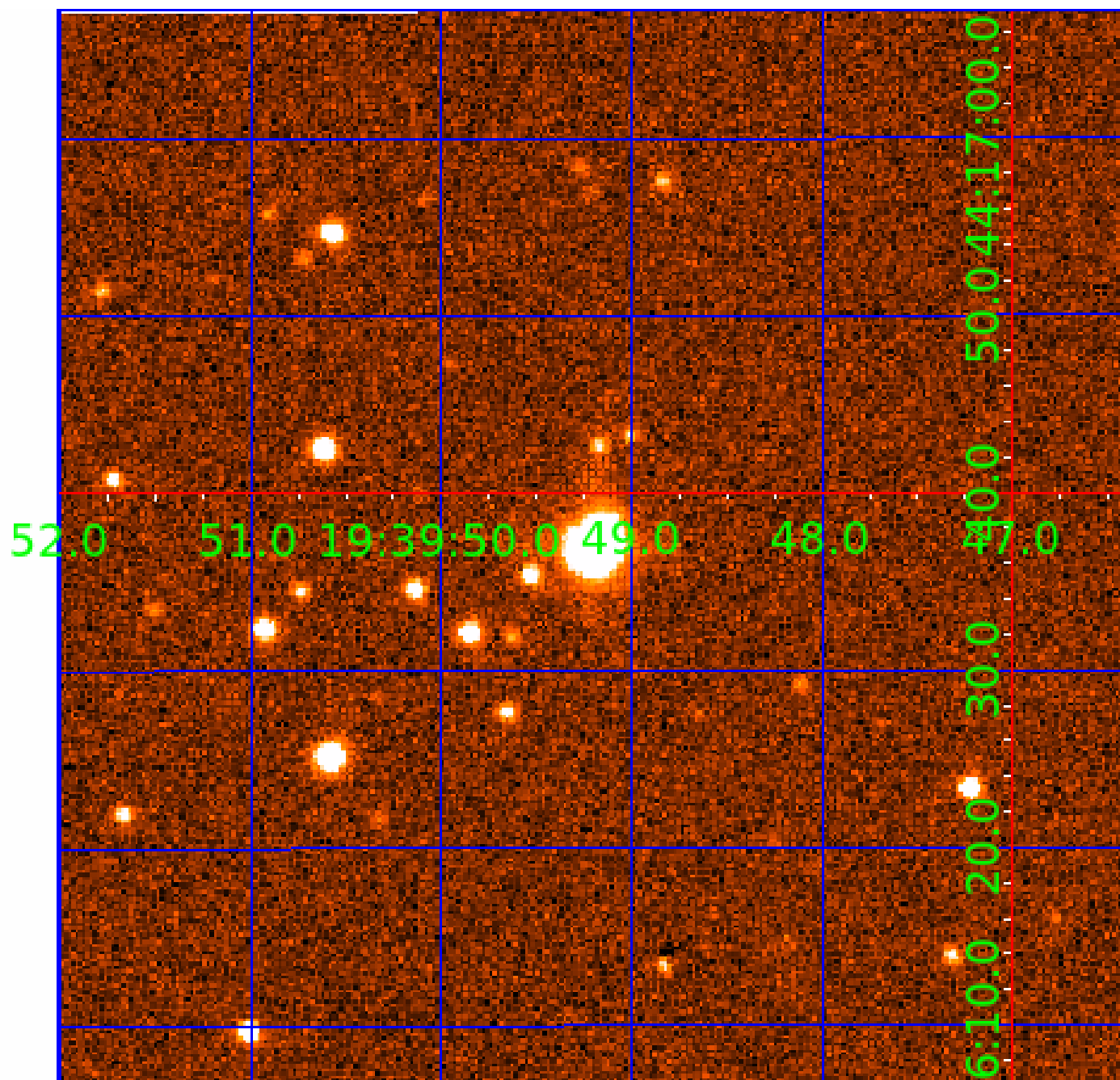


fluxWeightedCentroids, Planet 4 of 6



UKIRT Image

Declination



KIC 008308526

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})
008308526-01	OBS	No	1.329146	132.050880	17.1	8.492	7.8	9.4	1.48	6472	0.62	5831.66
008308526-02	OBS	No	45.162525	133.630202	78.5	2.047	9.5	2.3	1.48	6472	1.53	52.99
008308526-03	OBS	No	38.449266	148.080058	150.4	7.925	8.7	8.7	1.48	6472	2.45	65.67
008308526-04	OBS	No	37.355570	158.018002	84.9	5.937	7.1	5.6	1.48	6472	1.59	68.25
008308526-05	OBS	No	83.541172	213.823865	239.8	3.923	8.6	8.2	1.48	6472	2.64	23.34
008308526-06	OBS	No	36.820089	158.168406	146.3	4.347	8.6	8.3	1.48	6472	1.94	69.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008308526-01	OBS	FP	0.00	1	0	0	0	LPP_DV
008308526-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
008308526-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
008308526-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008308526-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS—HALO_GHOST
008308526-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT

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

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

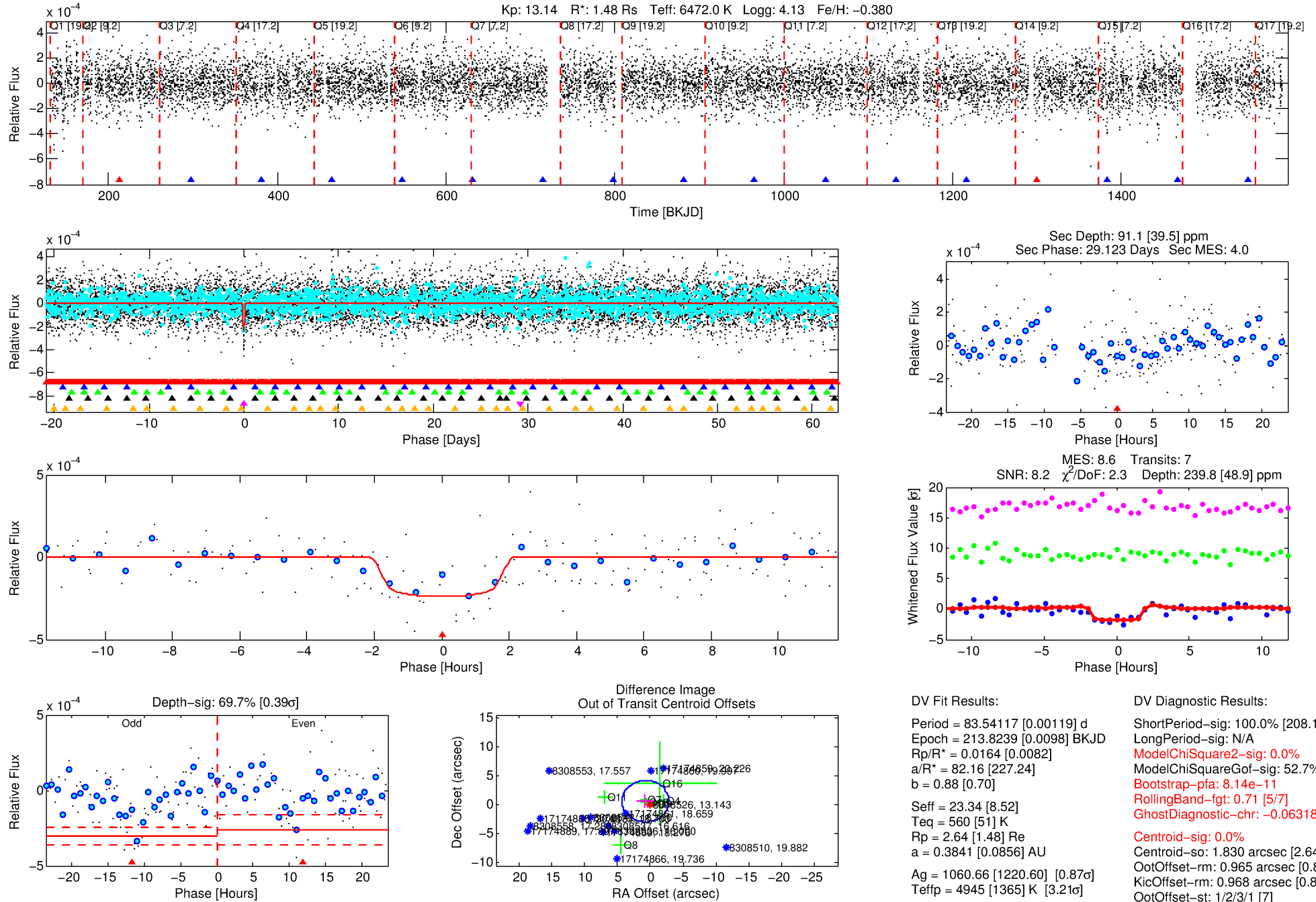
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008308526-05

No Significant Match Found

DV One-Page Summary

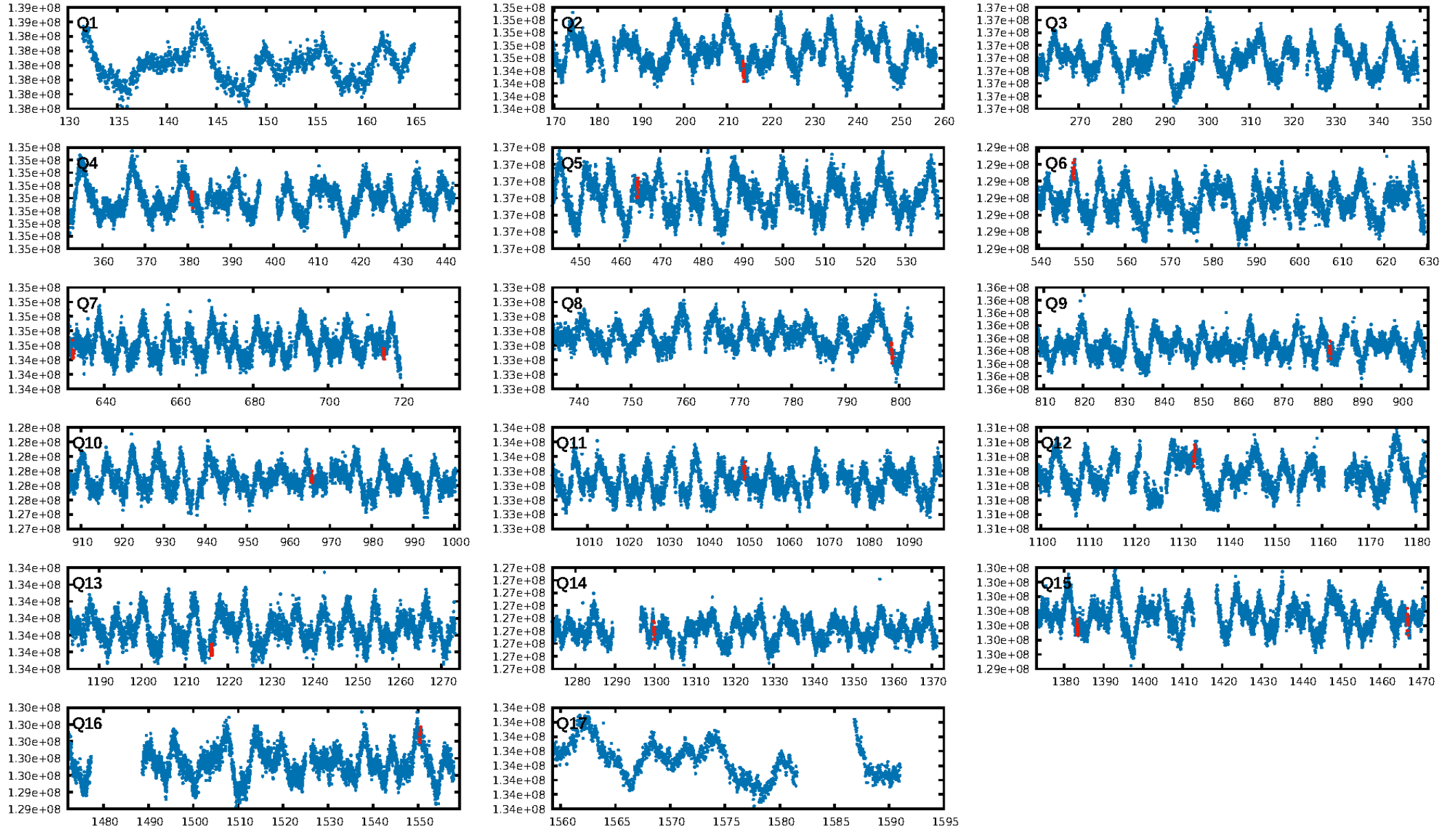
KIC: 8308526 Candidate: 5 of 6 Period: 83.541 d



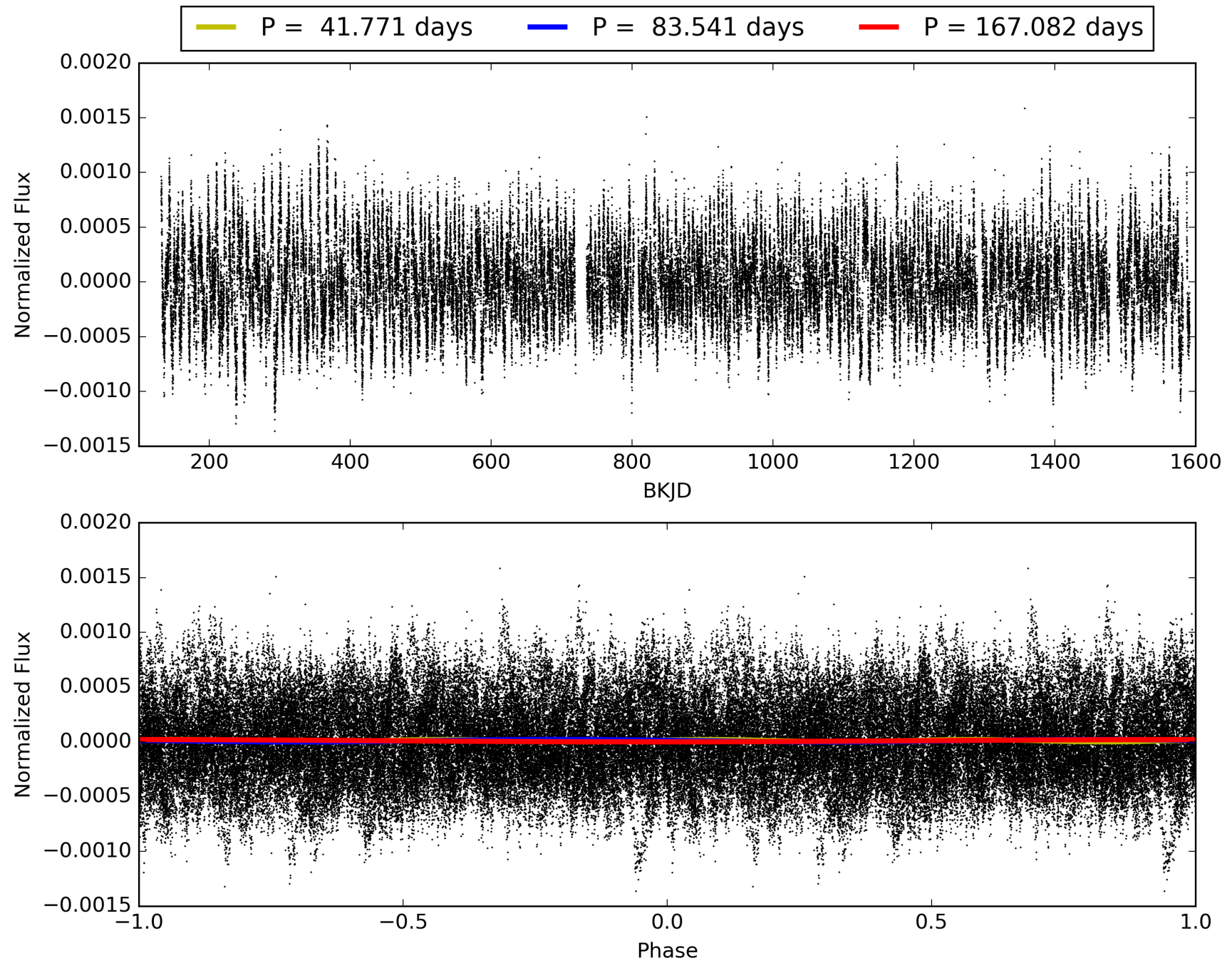
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 16:58:26 Z

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

TCE 008308526-05, PDC Light Curves

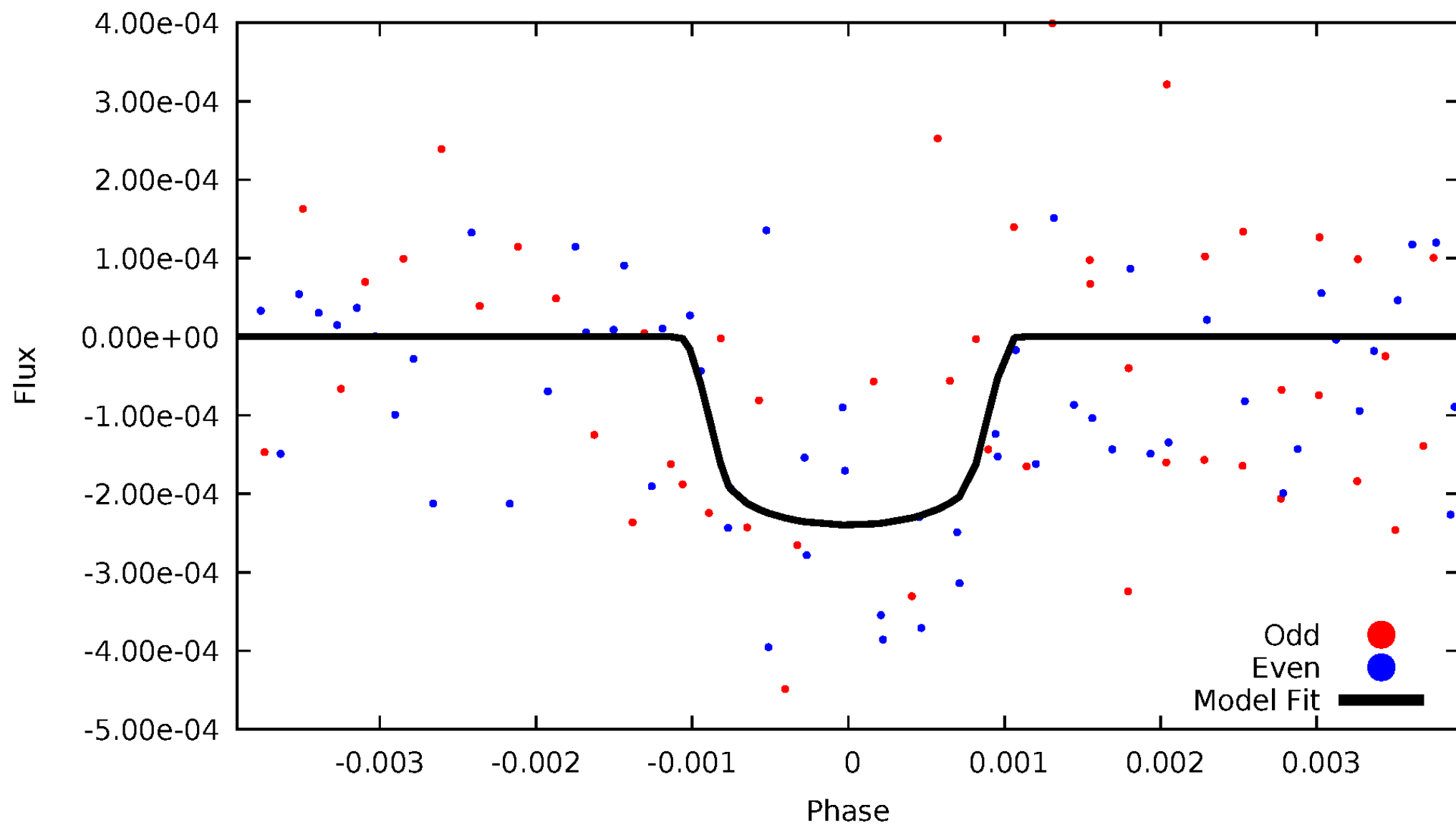


TCE 008308526-05



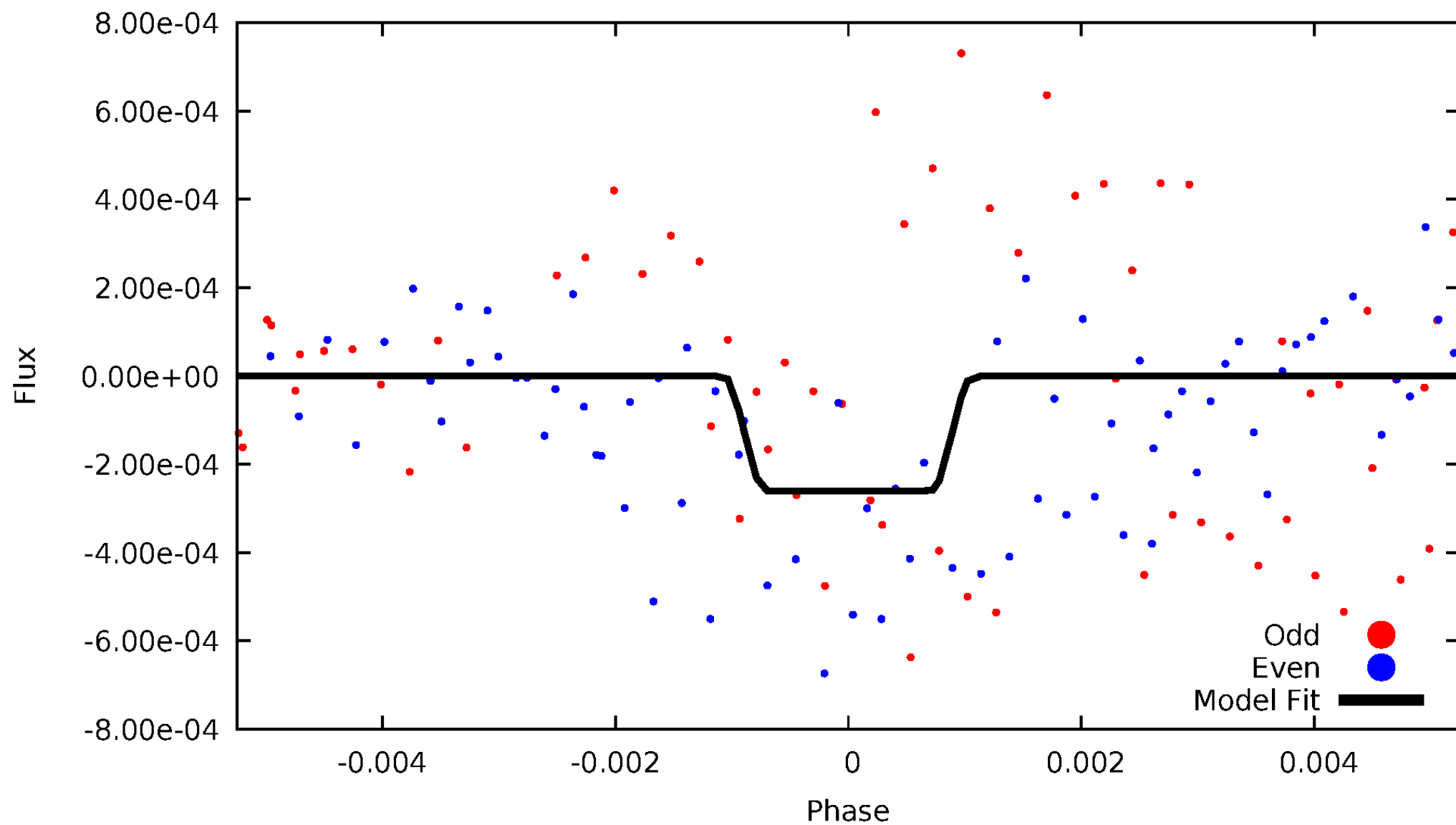
DV Odd/Even

TCE 008308526-05



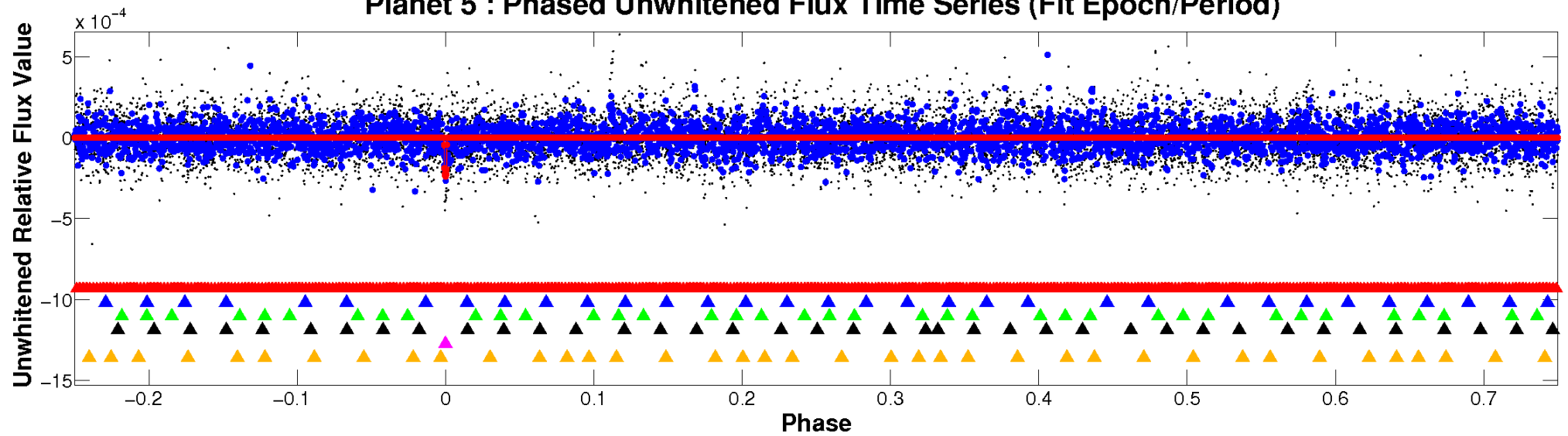
ALT Odd/Even

TCE 008308526-05

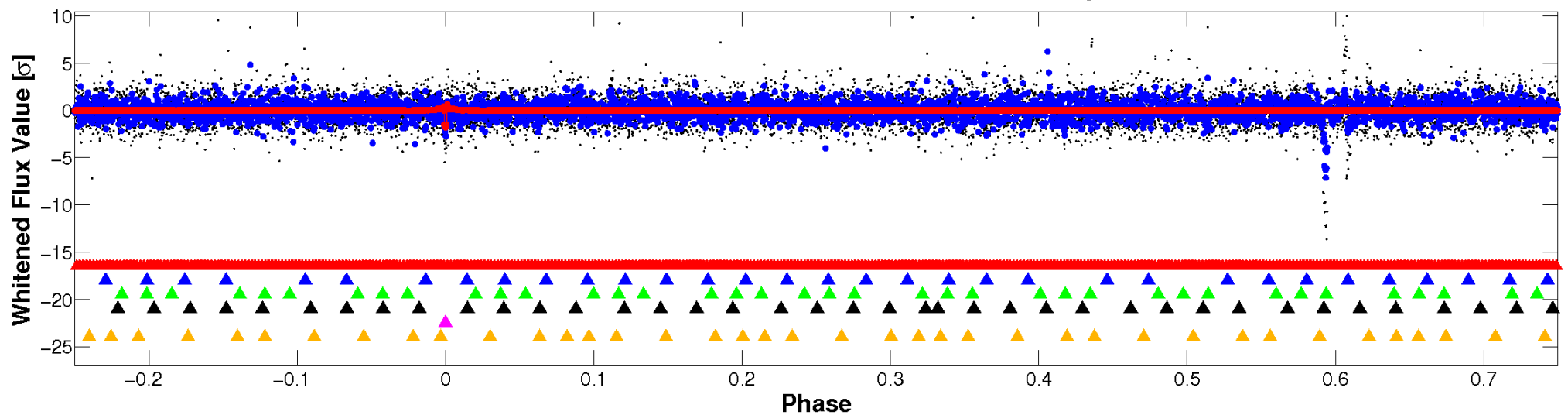


Non-Whitened Vs. Whitened Light Curve

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

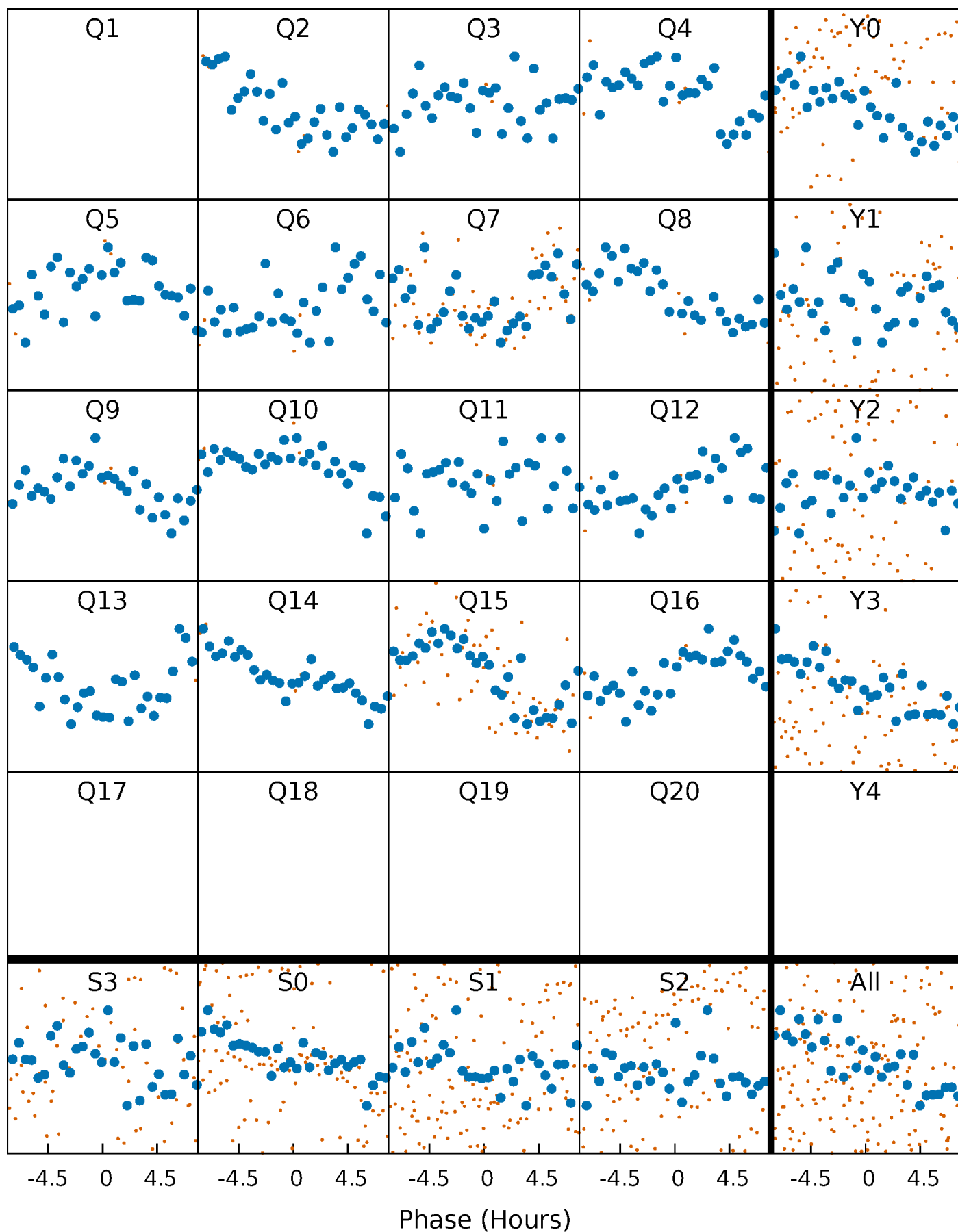


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



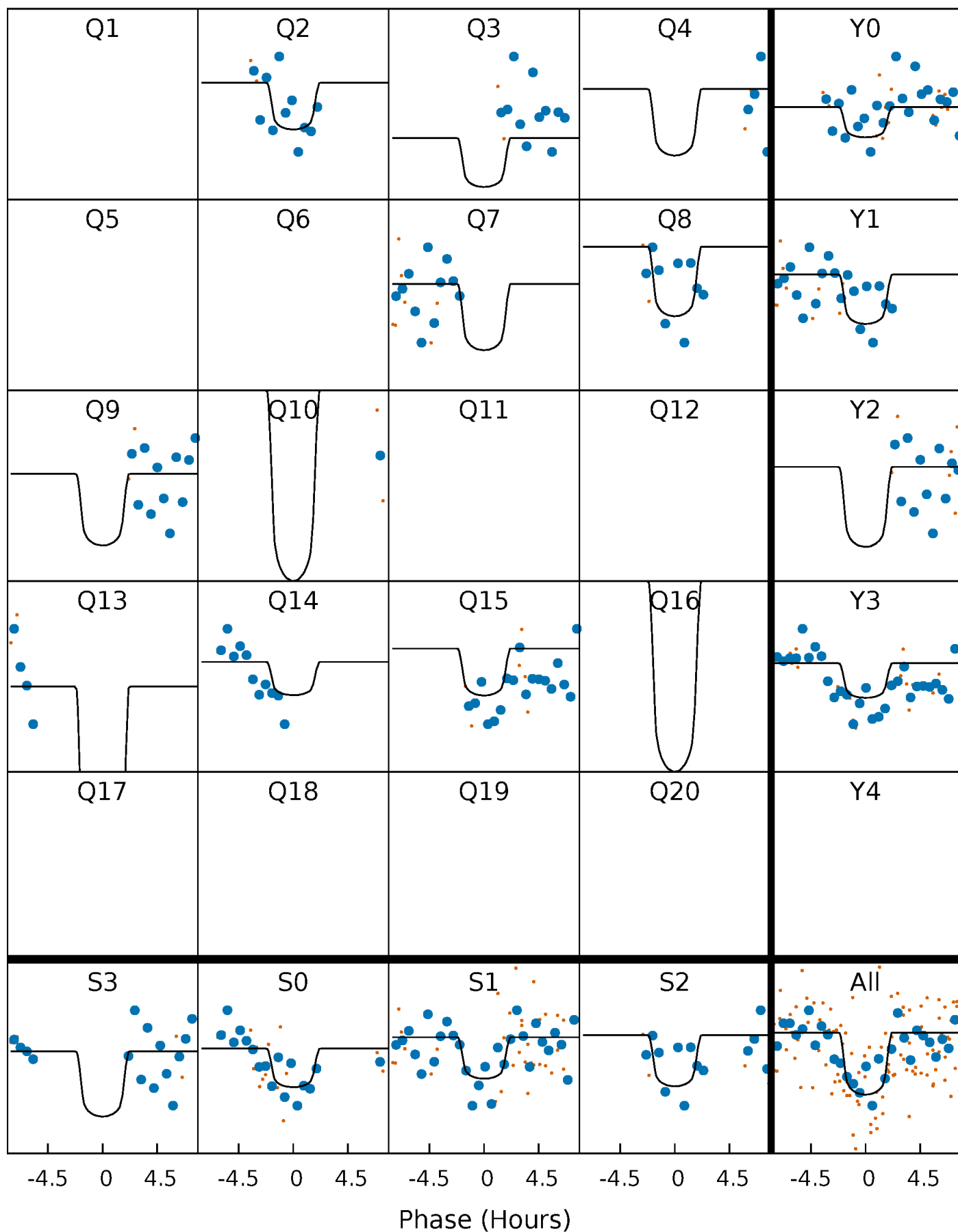
PDC Quarter-Phased Transit Curves

TCE 008308526-05 $P = 83.541172$ Days $T_0 = 213.823865$ (BKJD)



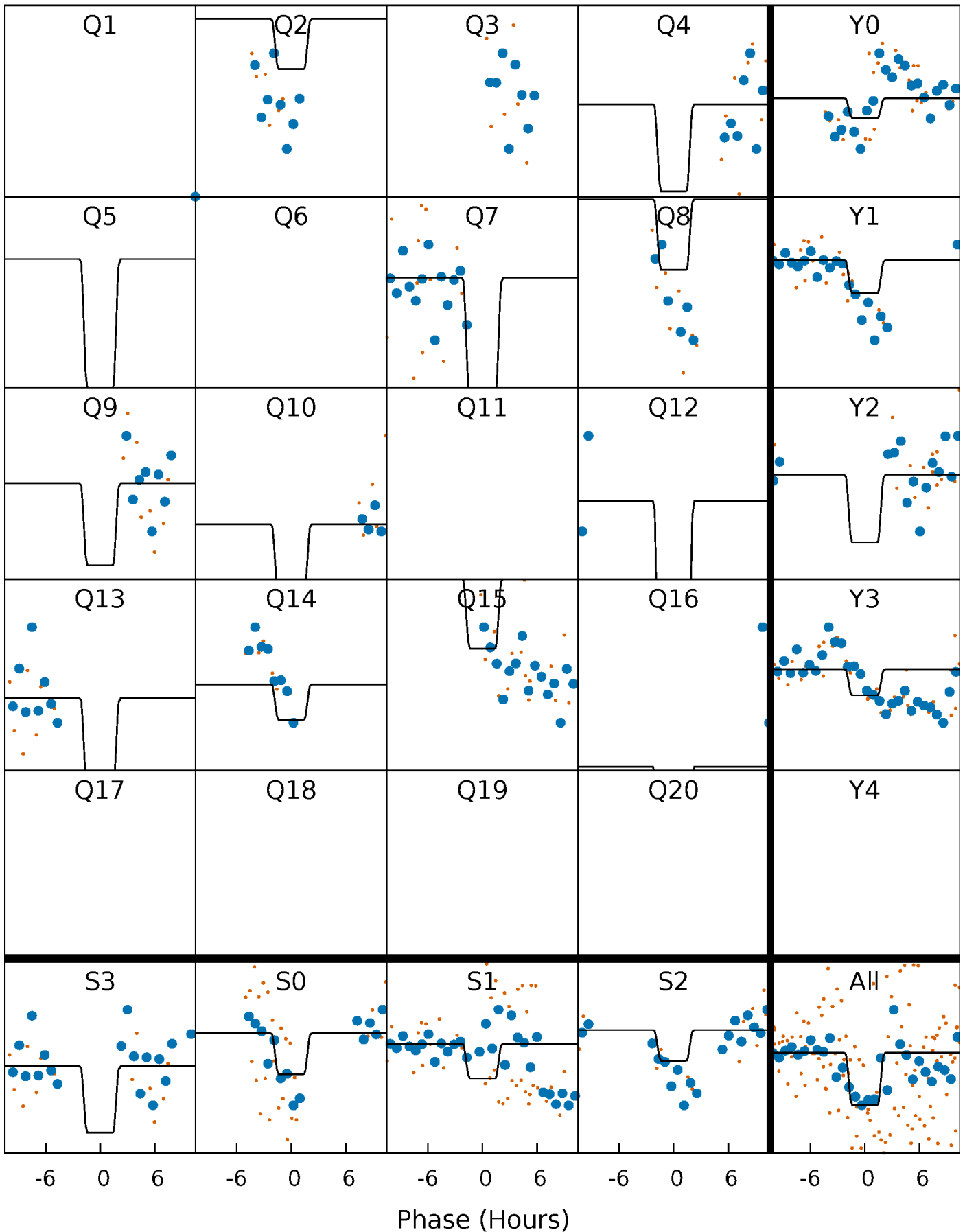
DV Quarter-Phased Transit Curves

TCE 008308526-05 $P = 83.541172$ Days $T_0 = 213.823865$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

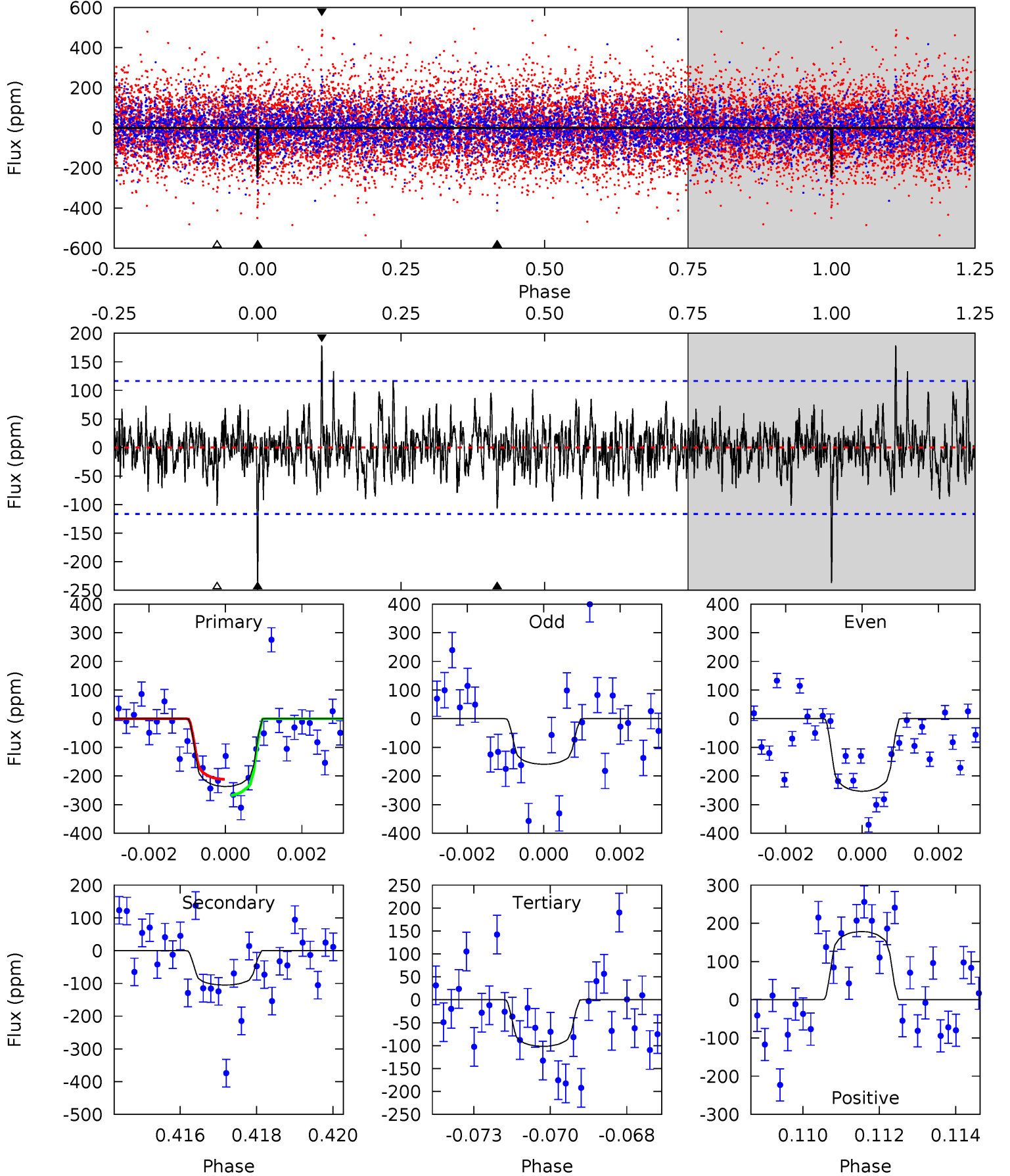
TCE 008308526-05 P= 83.534695 Days $T_0=213.858496$ (BKJD)



DV Model-Shift Uniqueness Test

008308526-05, P = 83.541172 Days, E = 130.282693 Days

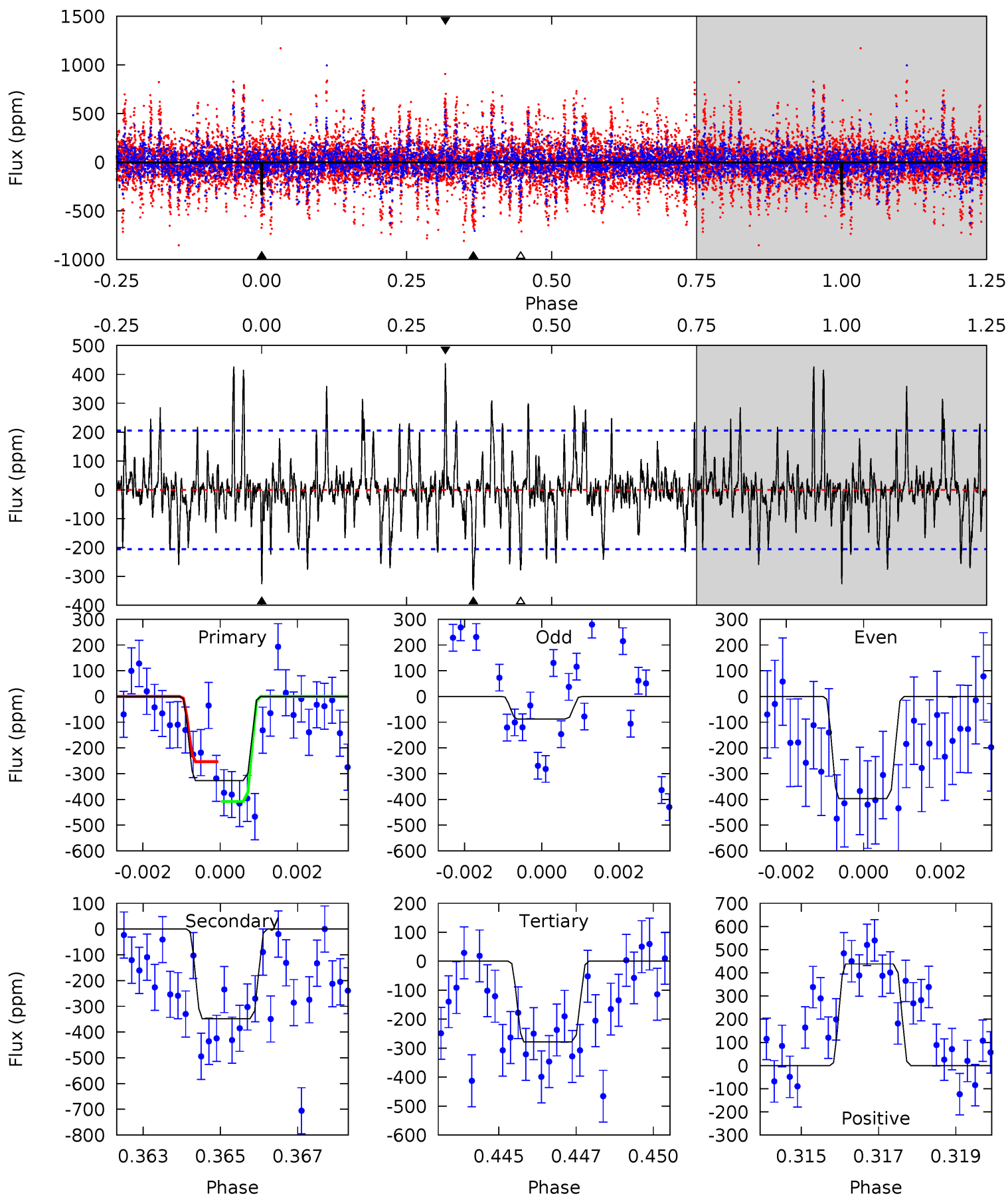
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.8	4.80	4.64	8.15	5.31	3.06	1.50	6.18	2.66	0.16	-3.35	2.13	0.97	0.43	1.28



Alt Model-Shift Uniqueness Test

008308526-05, P = 83.534695 Days, E = 130.323801 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.43	9.00	7.20	11.3	5.31	3.07	2.41	1.23	-2.89	1.80	-2.33	4.01	0.60	0.56	2.00



Stellar Parameters For KIC 008308526

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6472^{+146}_{-194}	$4.132^{+0.198}_{-0.132}$	$-0.380^{+0.300}_{-0.300}$	$1.480^{+0.296}_{-0.362}$	$1.081^{+0.162}_{-0.133}$	$0.470^{+0.514}_{-0.184}$
	+2%/-3%	+5%/-3%	+79%/-79%	+20%/-24%	+15%/-12%	+109%/-39%
Source	PHO1	FLK73	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 008308526-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-105 ± 22	$2.72^{+1.32}_{-1.23}$	778^{+49}_{-50}	5038^{+1703}_{-720}	1159^{+2715}_{-649}
Alt.	-348 ± 39	$2.63^{+1.38}_{-1.36}$	776^{+46}_{-52}	6838^{+3715}_{-1235}	4068^{+13556}_{-2268}

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 $A_{obs} \gg 1.0$

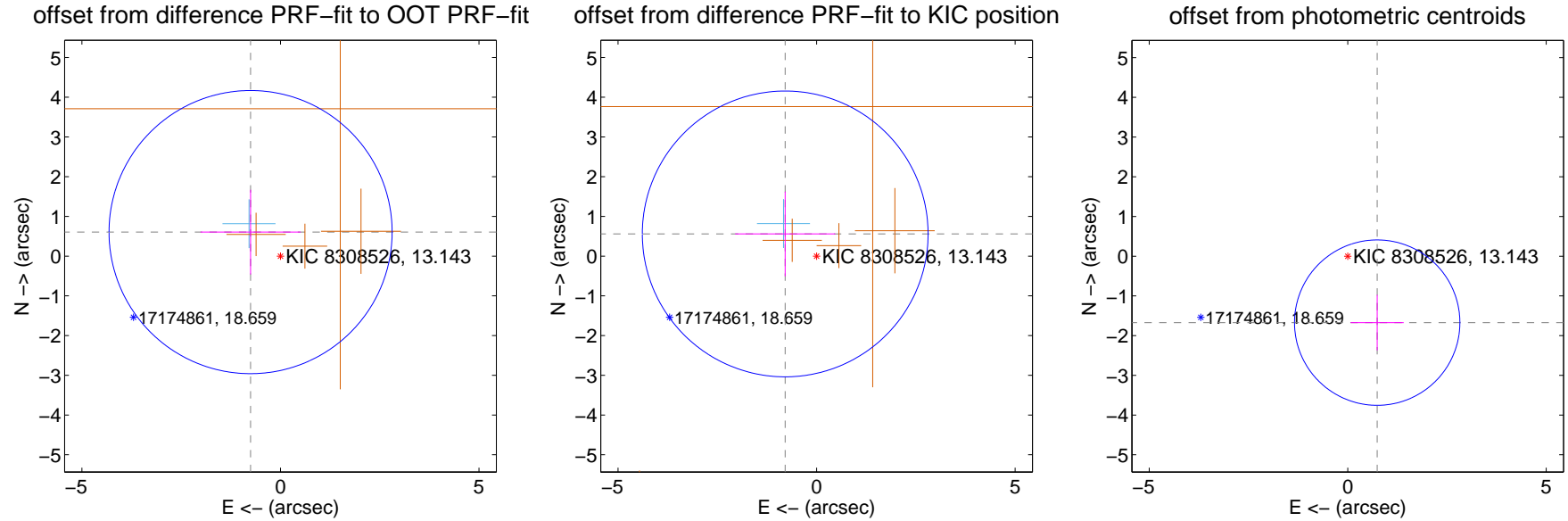
DV Centroid Data

Supplemental centroid analysis for 008308526-05. Kepler magnitude: 13.14. Transit SNR 8.21

There are 1 quarters with good PRF difference image offsets

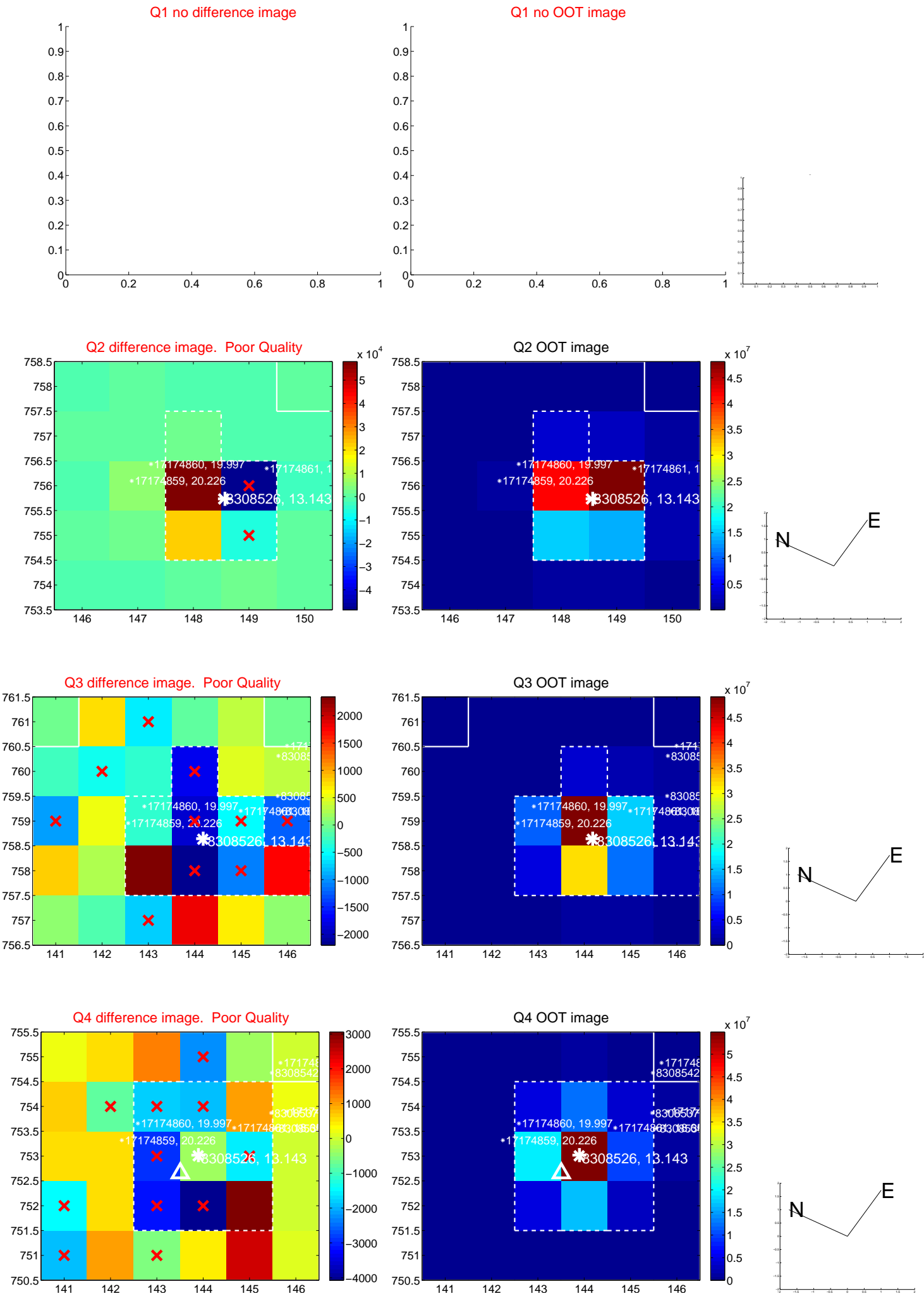
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.965 ± 1.188	0.81	0.752 ± 1.260	0.605 ± 1.066
PRF-fit source offset from KIC position	0.968 ± 1.199	0.81	0.790 ± 1.260	0.559 ± 1.066
photometric centroid source offset	1.83 ± 0.69	2.64	-0.74 ± 0.67	-1.67 ± 0.70

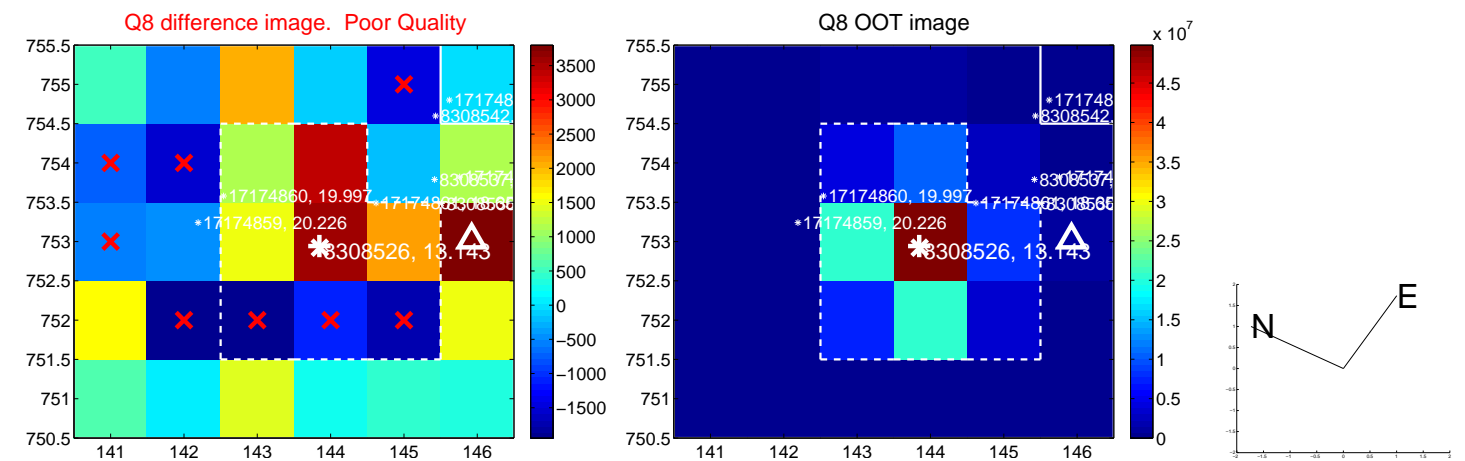
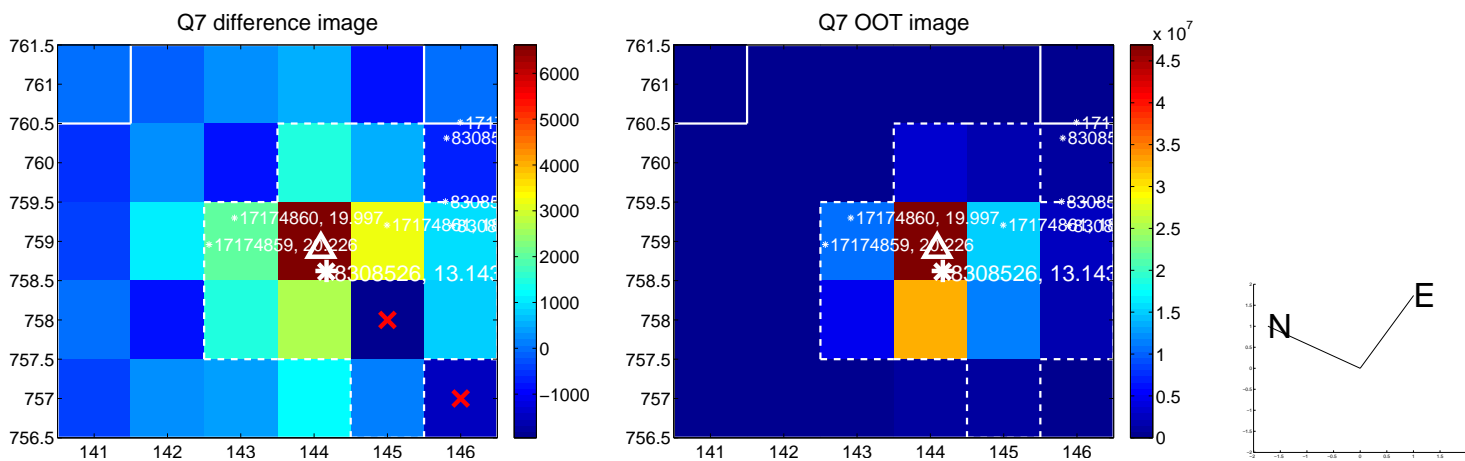
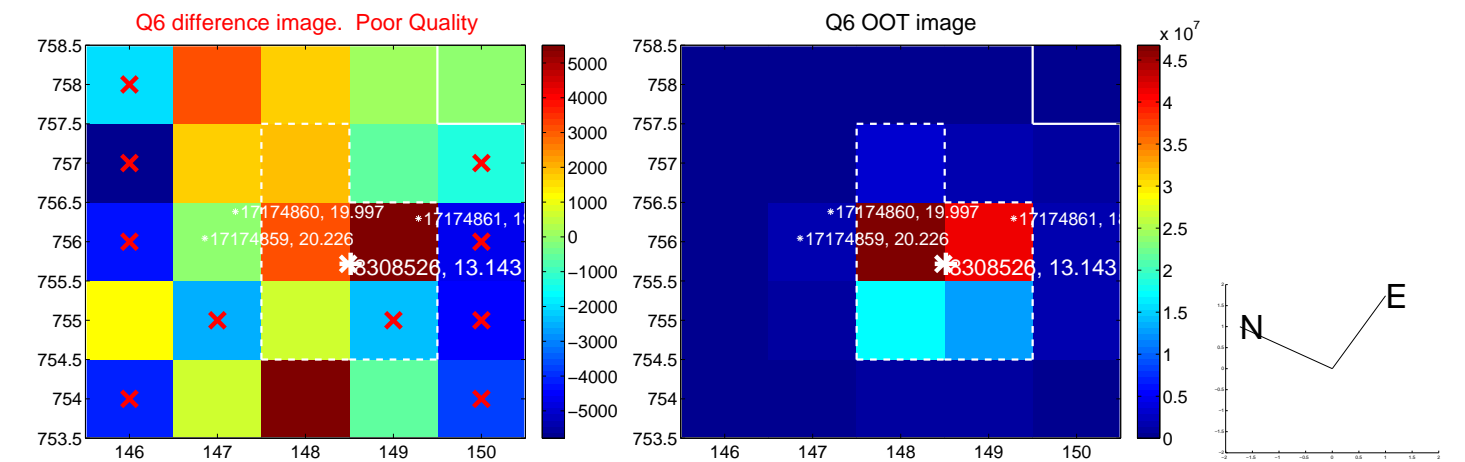
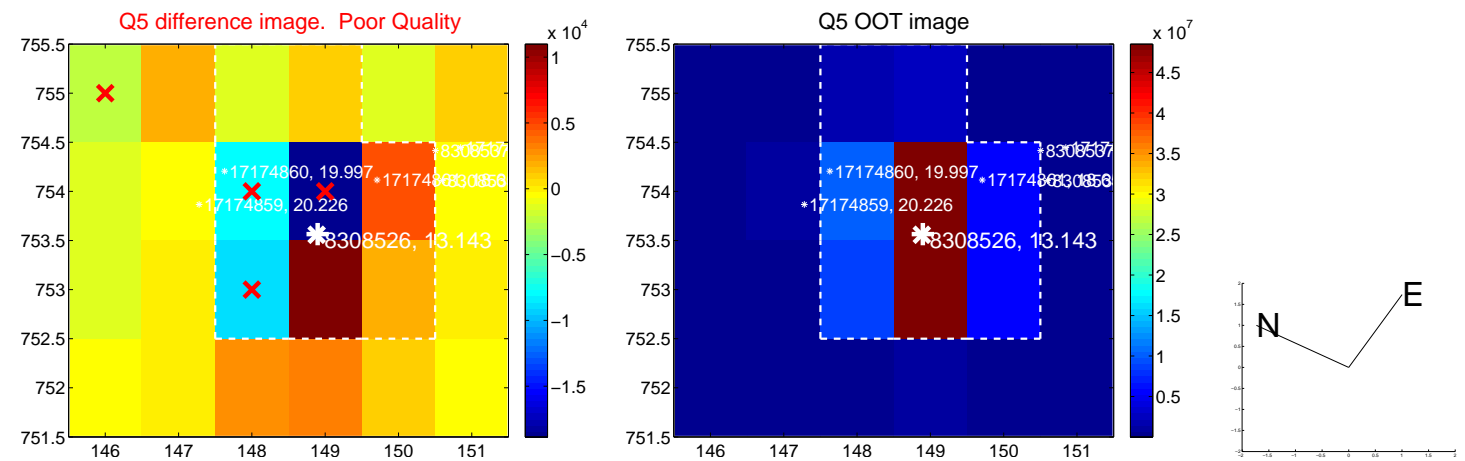


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

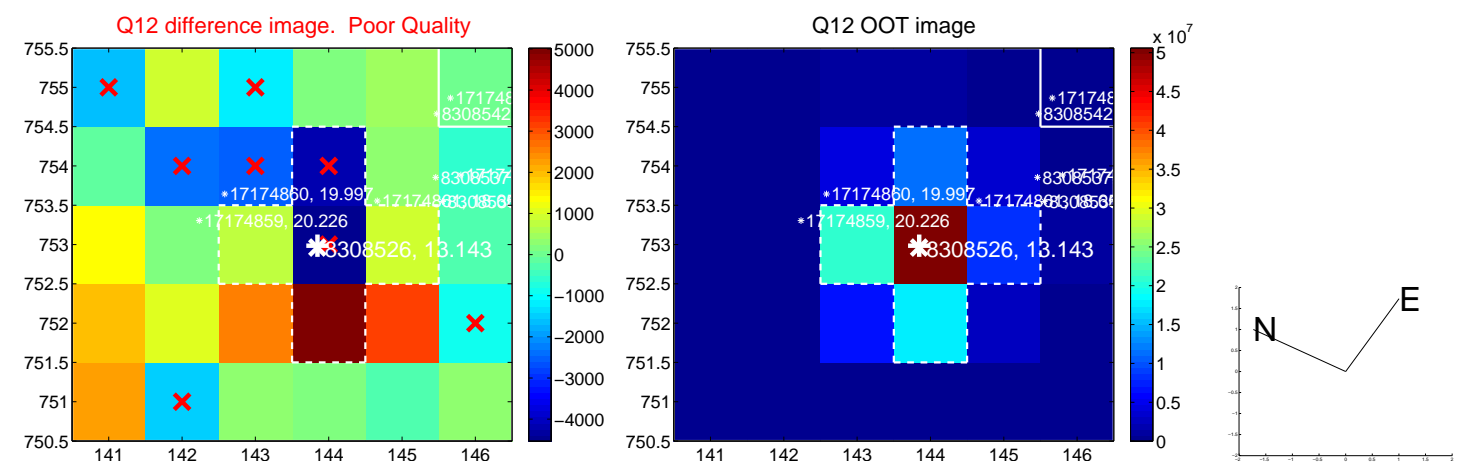
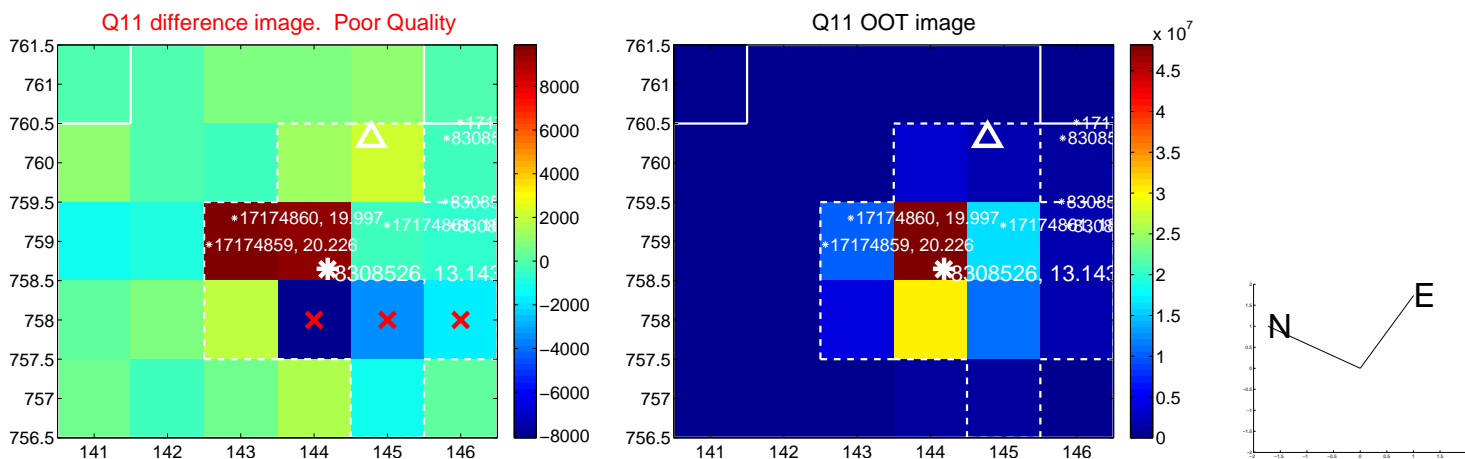
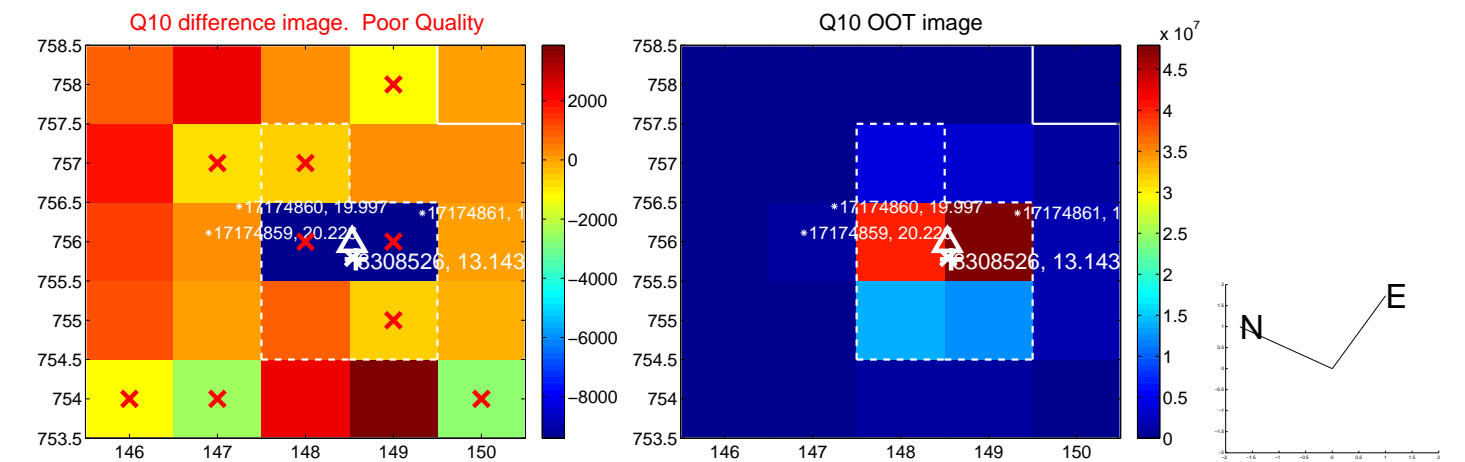
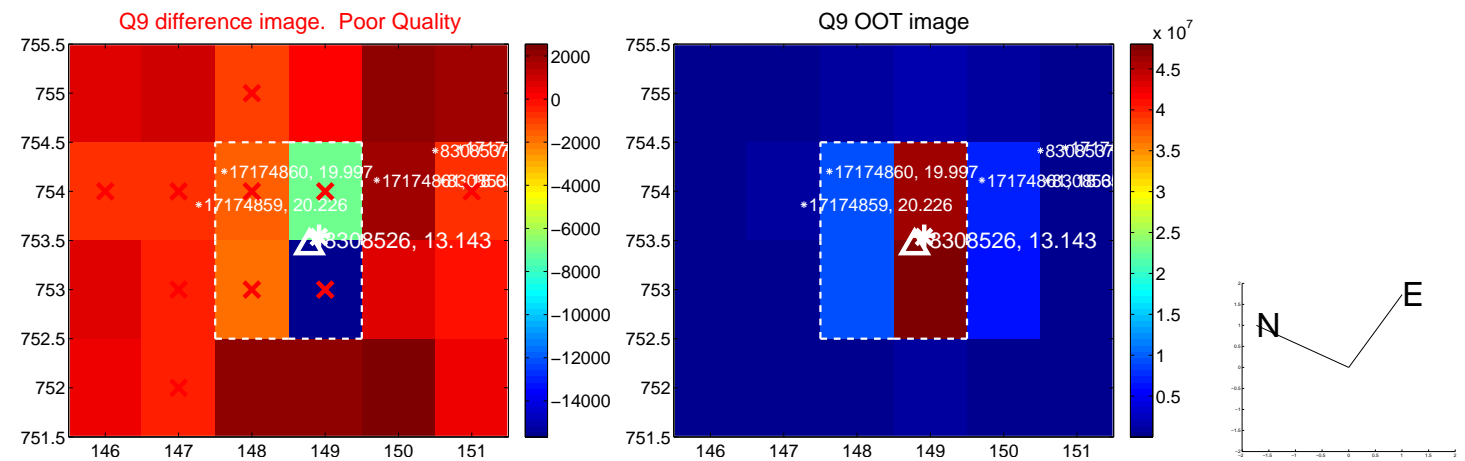
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



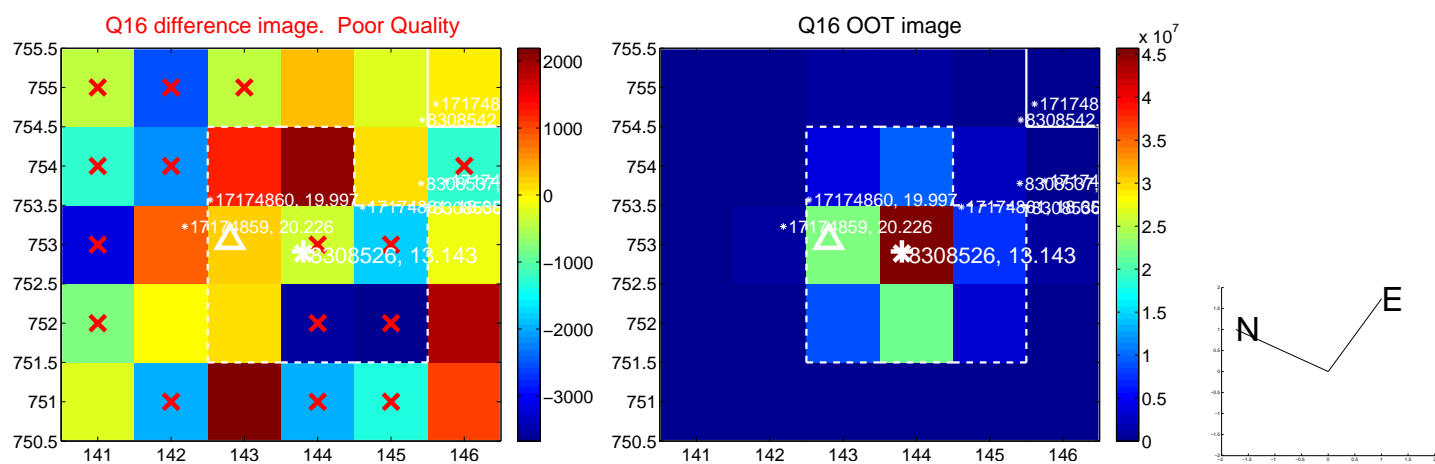
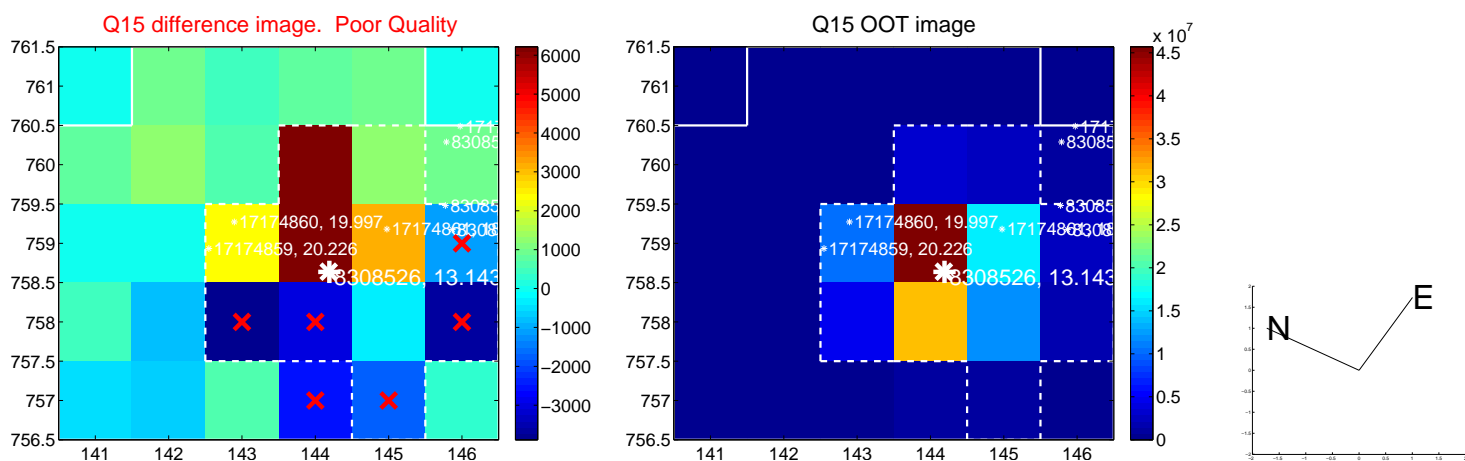
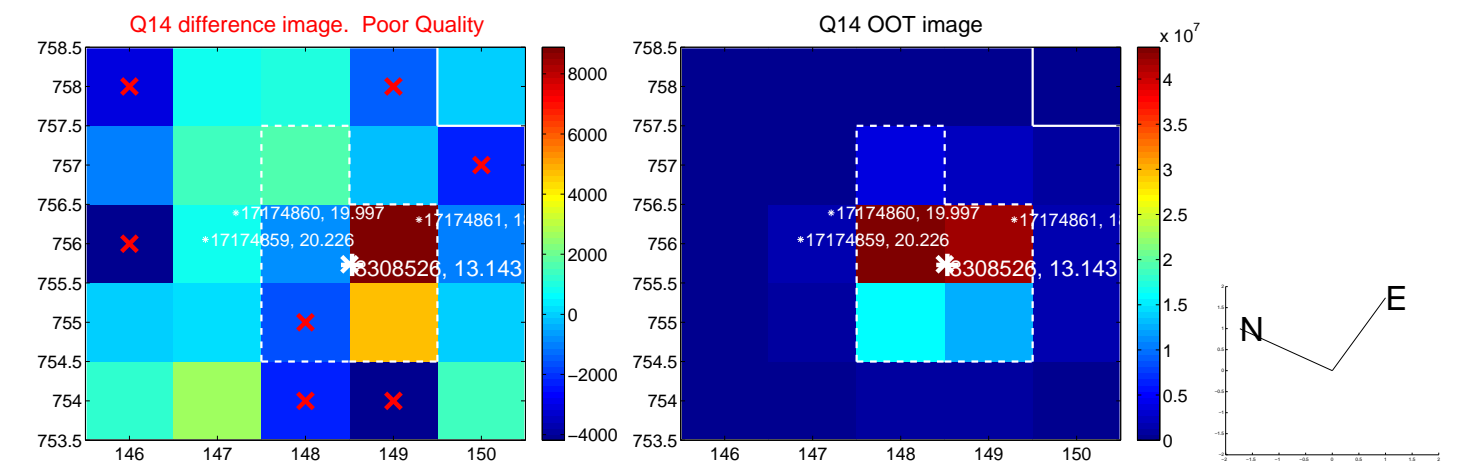
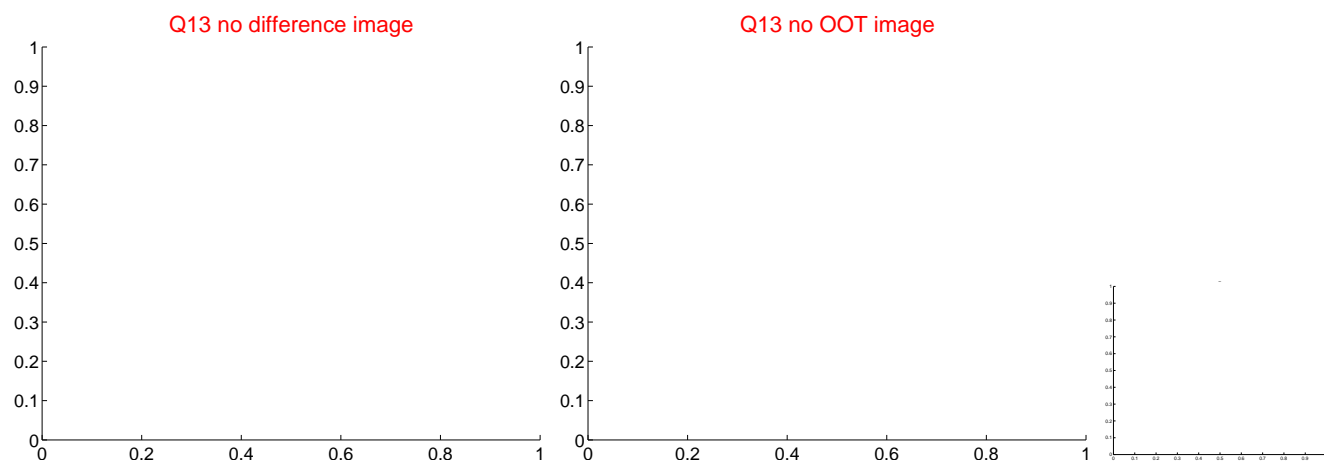
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



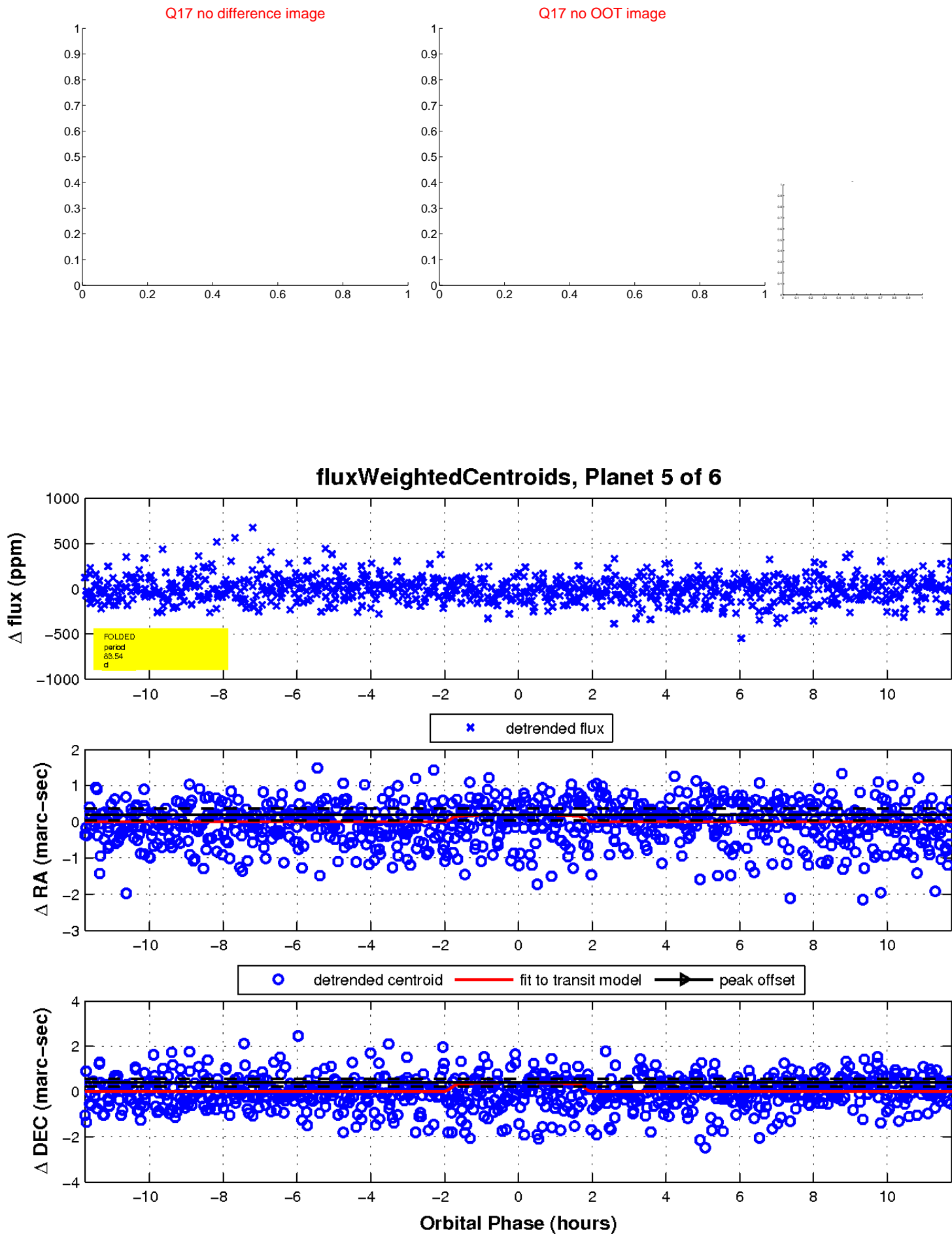
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

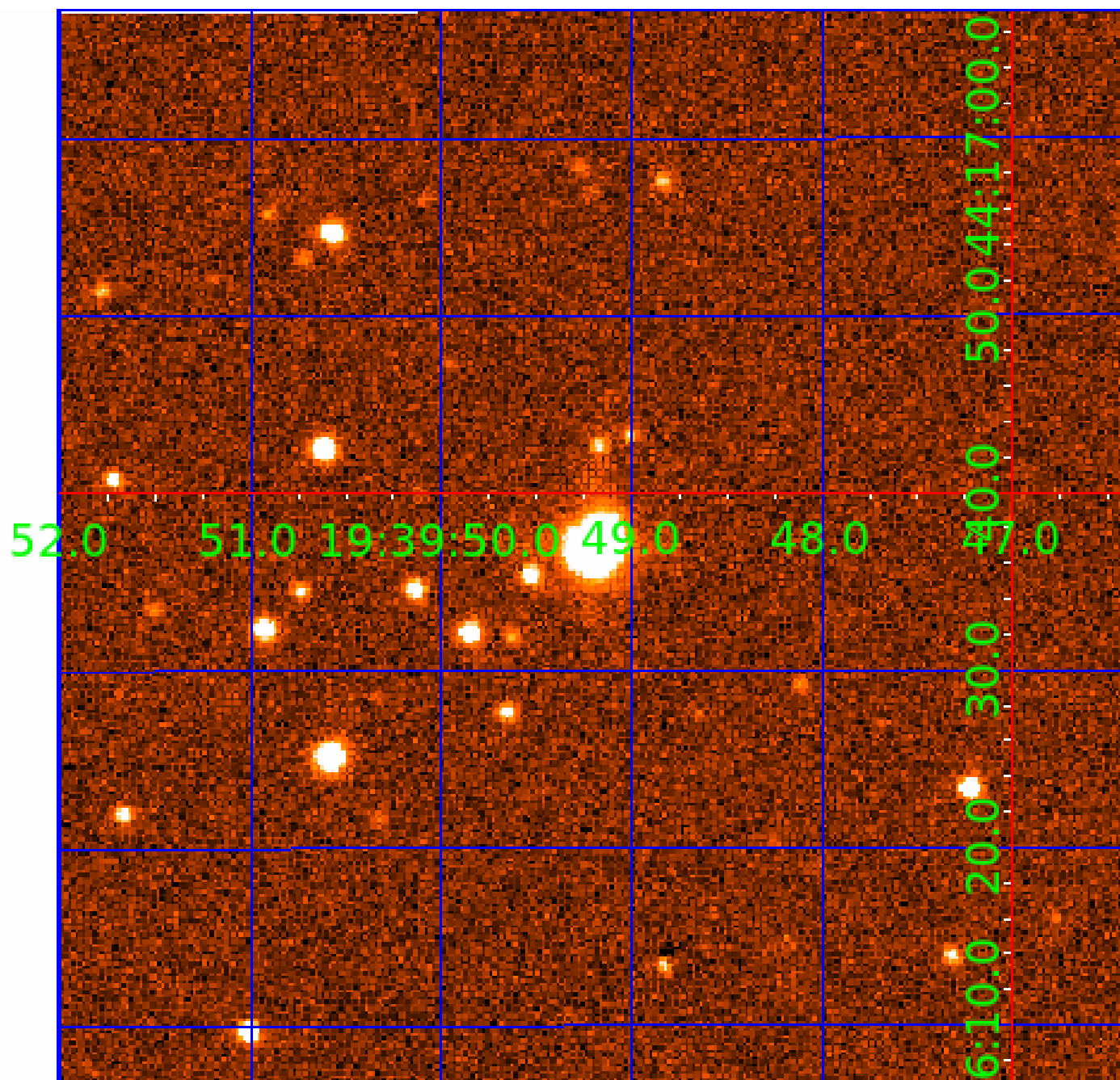


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008308526

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})
008308526-01	OBS	No	1.329146	132.050880	17.1	8.492	7.8	9.4	1.48	6472	0.62	5831.66
008308526-02	OBS	No	45.162525	133.630202	78.5	2.047	9.5	2.3	1.48	6472	1.53	52.99
008308526-03	OBS	No	38.449266	148.080058	150.4	7.925	8.7	8.7	1.48	6472	2.45	65.67
008308526-04	OBS	No	37.355570	158.018002	84.9	5.937	7.1	5.6	1.48	6472	1.59	68.25
008308526-05	OBS	No	83.541172	213.823865	239.8	3.923	8.6	8.2	1.48	6472	2.64	23.34
008308526-06	OBS	No	36.820089	158.168406	146.3	4.347	8.6	8.3	1.48	6472	1.94	69.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008308526-01	OBS	FP	0.00	1	0	0	0	LPP_DV
008308526-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
008308526-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
008308526-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
008308526-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS—HALO_GHOST
008308526-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT

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

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

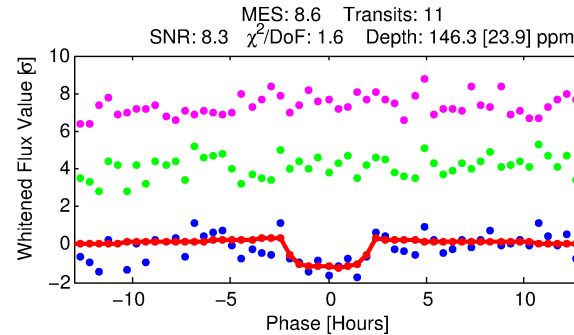
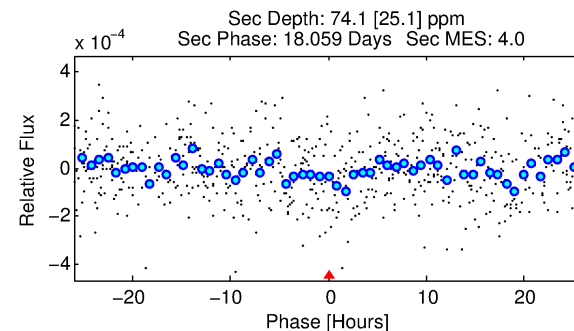
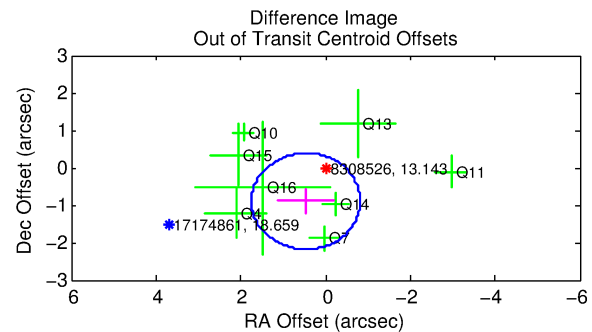
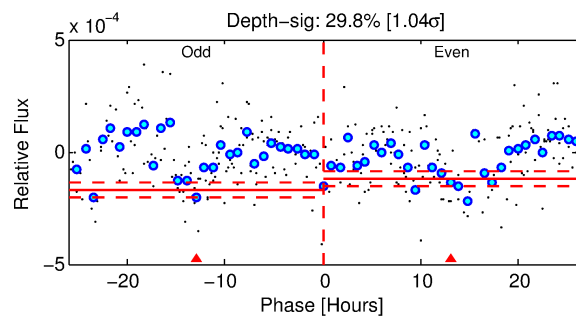
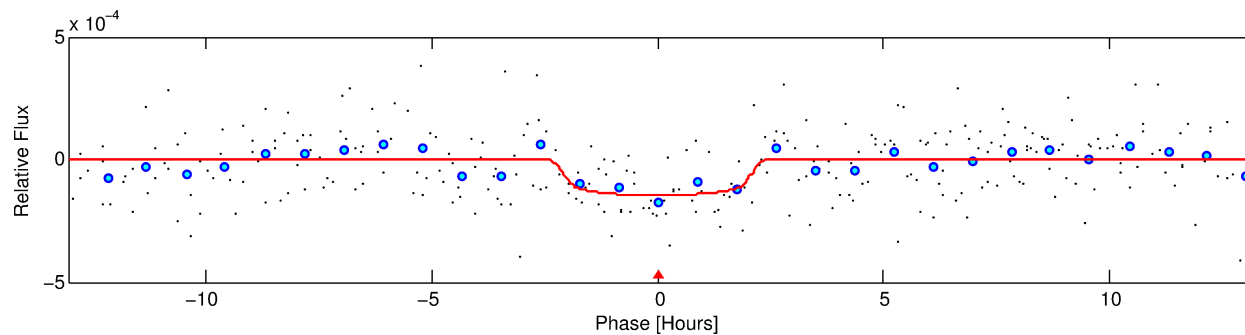
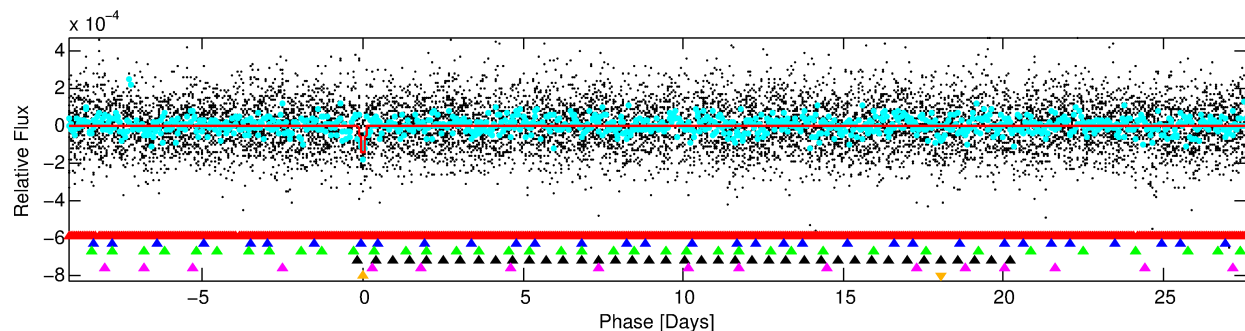
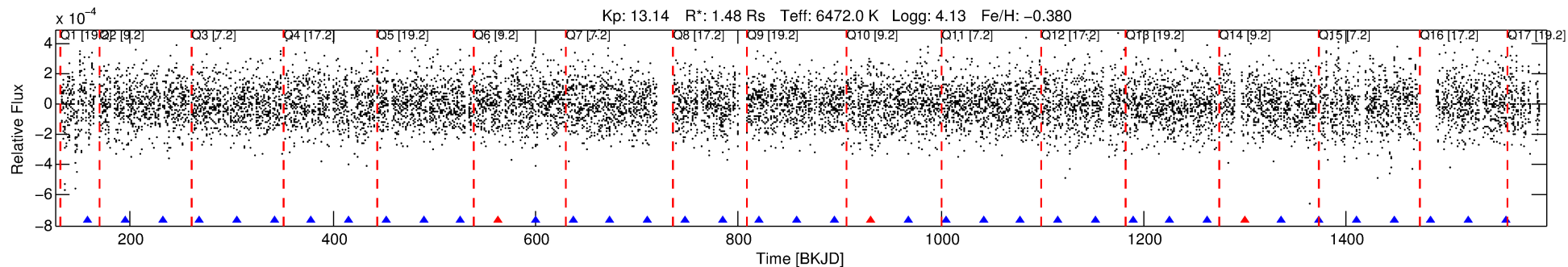
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008308526-06

No Significant Match Found

DV One-Page Summary

KIC: 8308526 Candidate: 6 of 6 Period: 36.820 d



DV Fit Results:

Period = 36.82009 [0.00062] d
Epoch = 158.1684 [0.0146] BKJD
Rp/R* = 0.0120 [0.0144]
a/R* = 44.03 [293.20]
b = 0.75 [3.94]
Seff = 69.57 [25.41]
Teq = 736 [67] K
Rp = 1.94 [2.37] Re
a = 0.2225 [0.0496] AU
Ag = 534.58 [1305.90] [0.41 σ]
Teffp = 5475 [3314] K [1.43 σ]

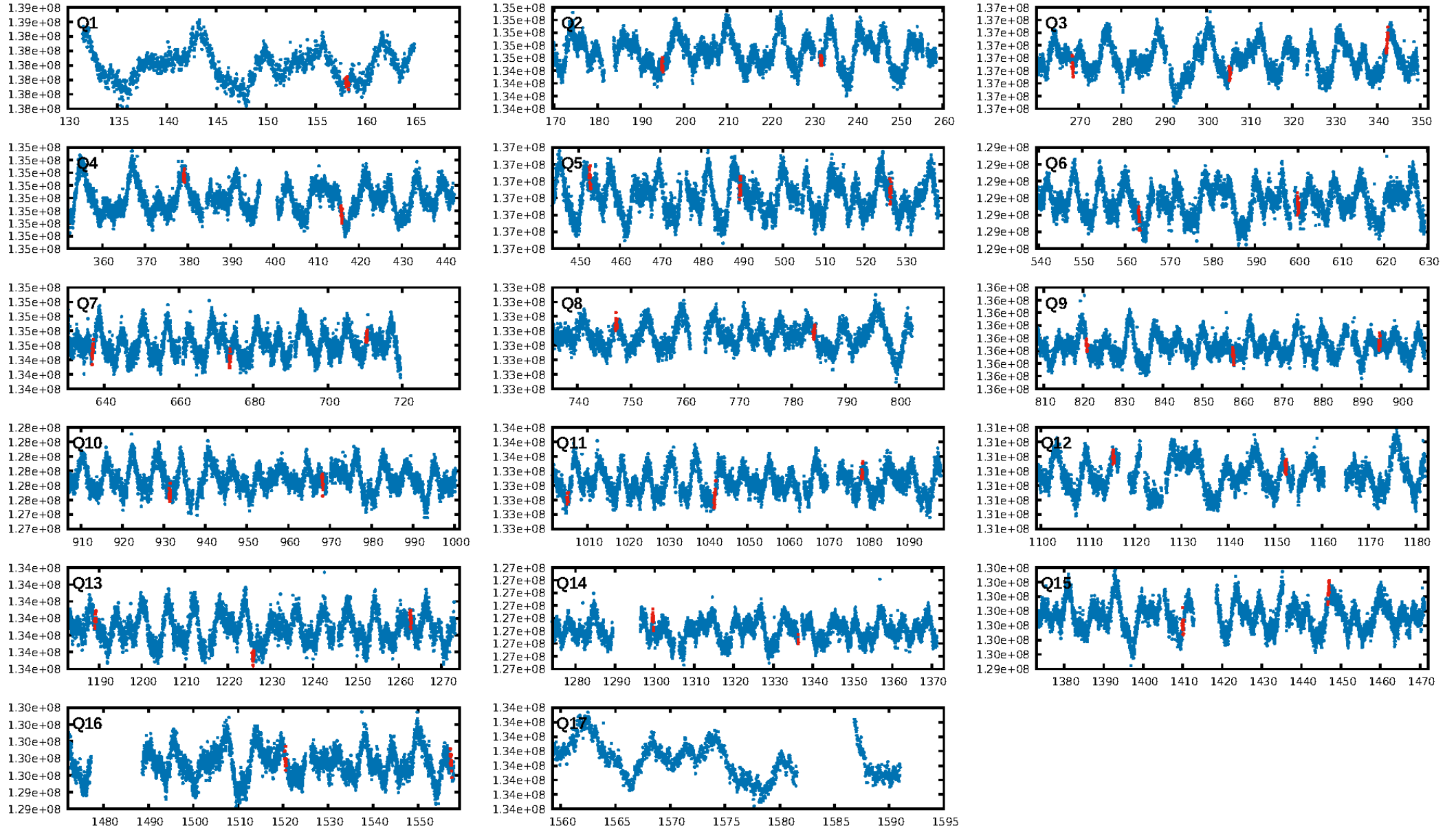
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [89.28 σ]
LongPeriod-sig: 91.9% [1.75 σ]
ModelChiSquare2-sig: 12.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 4.59e-11
RollingBand-fgt: 0.73 [8/11]
GhostDiagnostic-chr: -3.038
Centroid-sig: 0.3%
Centroid-so: 1.721 arcsec [2.39 σ]
OotOffset-rm: 1.012 arcsec [2.36 σ]
KicOffset-rm: 1.022 arcsec [2.30 σ]
OotOffset-st: 2/3/2/1 [8]
KicOffset-st: 2/3/2/1 [8]
DiffImageQuality-fgm: 0.62 [5/8]
DiffImageOverlap-fno: 0.25 [4/16]

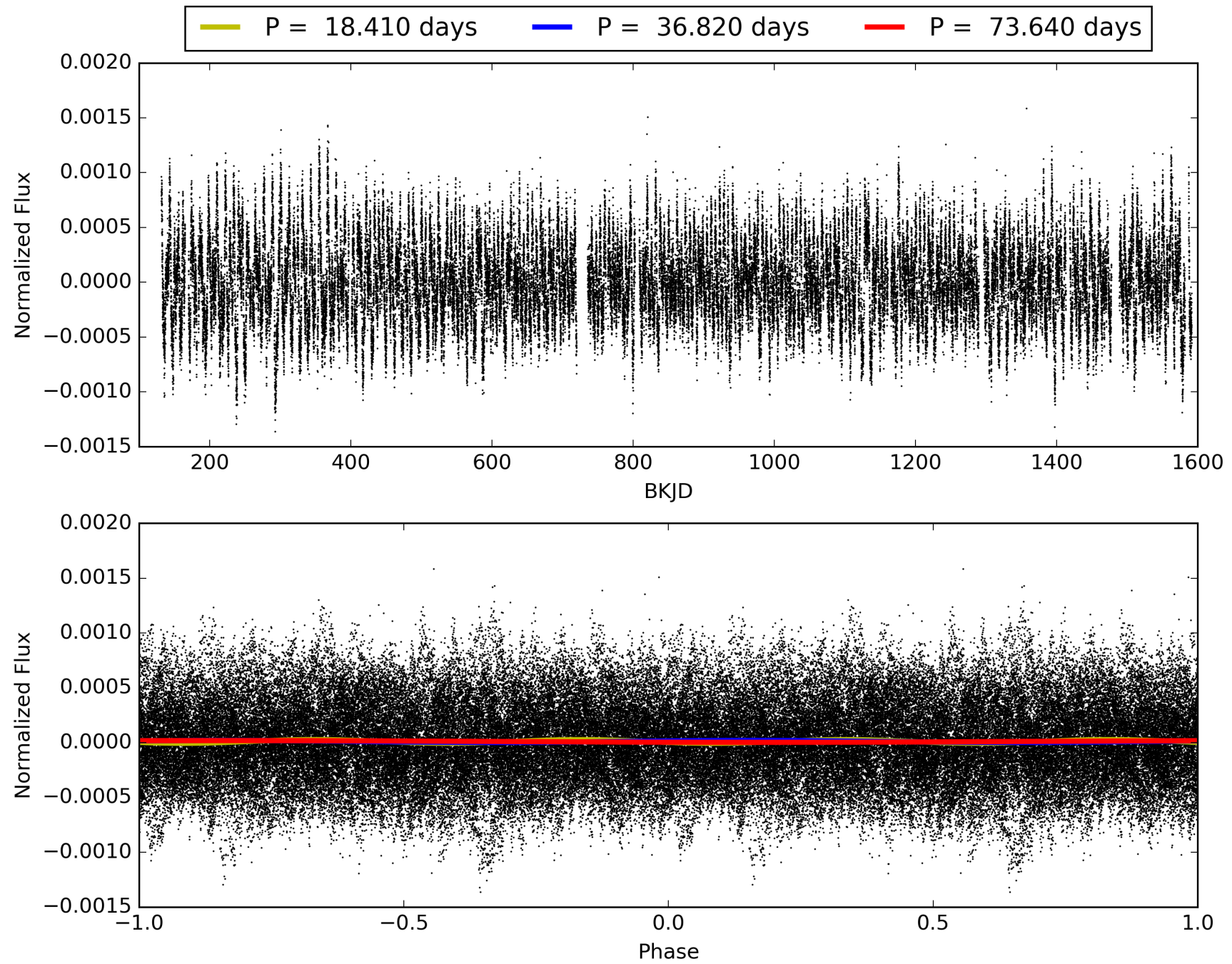
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 16:58:30 Z

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

TCE 008308526-06, PDC Light Curves

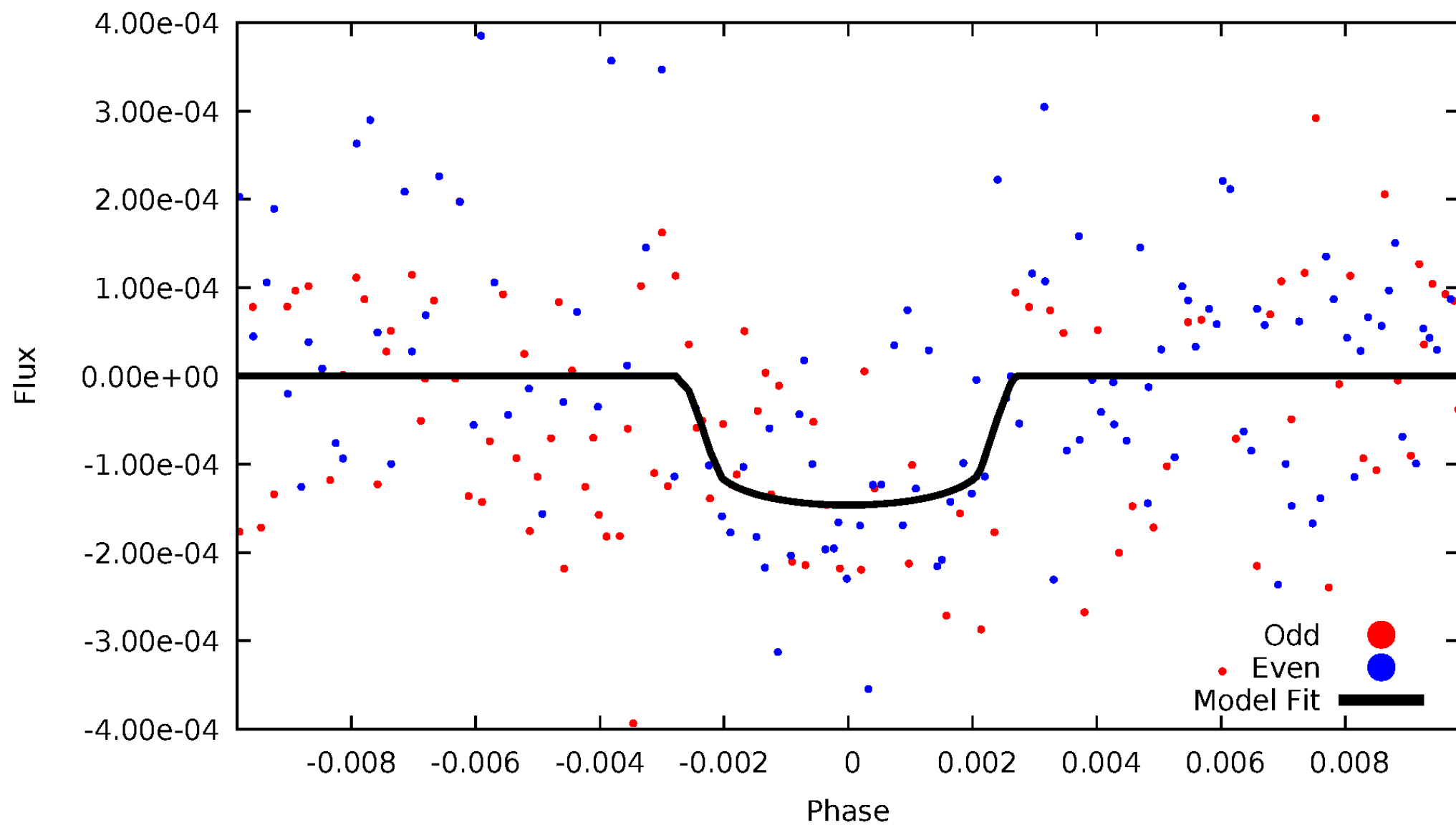


TCE 008308526-06



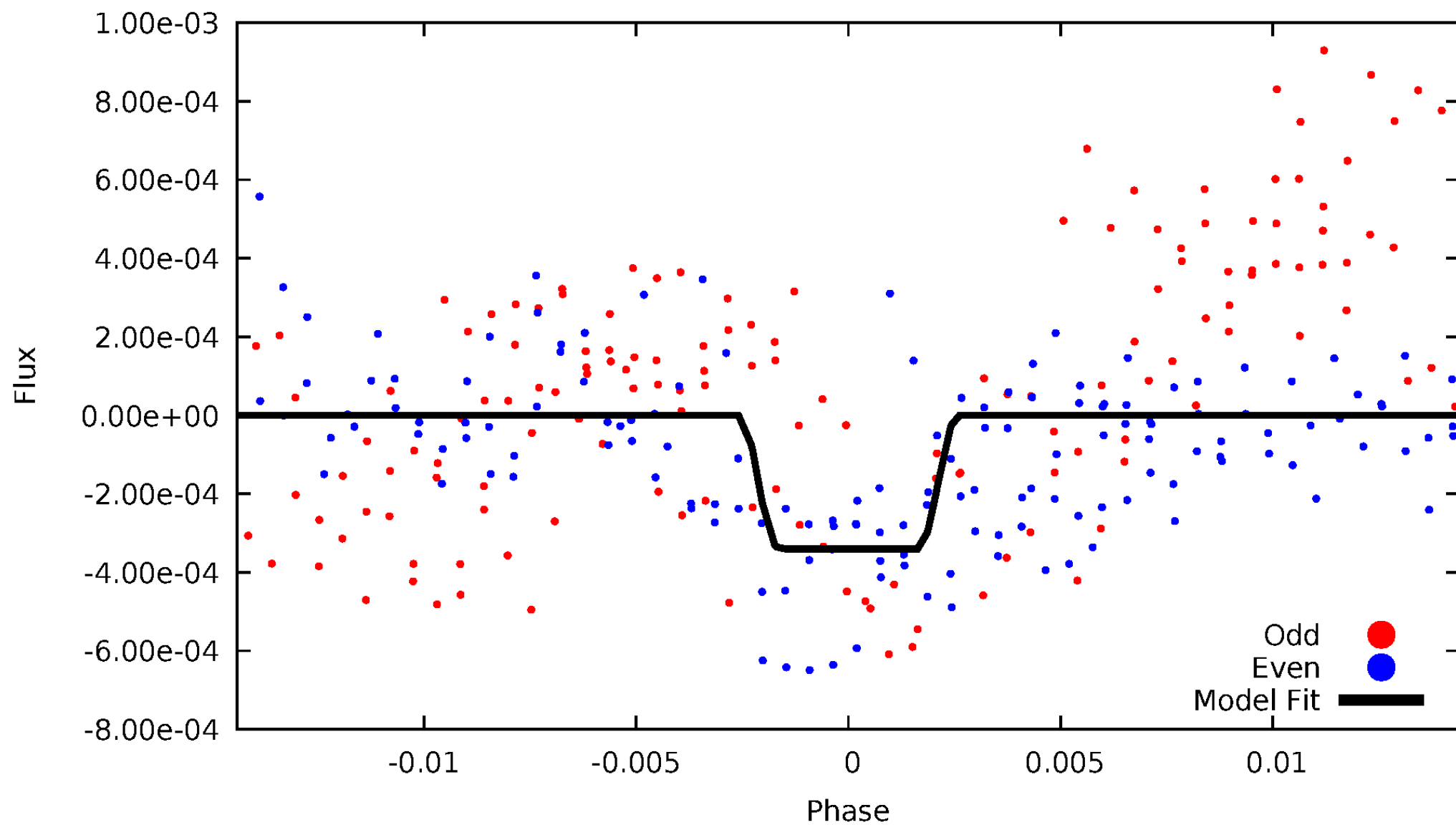
DV Odd/Even

TCE 008308526-06



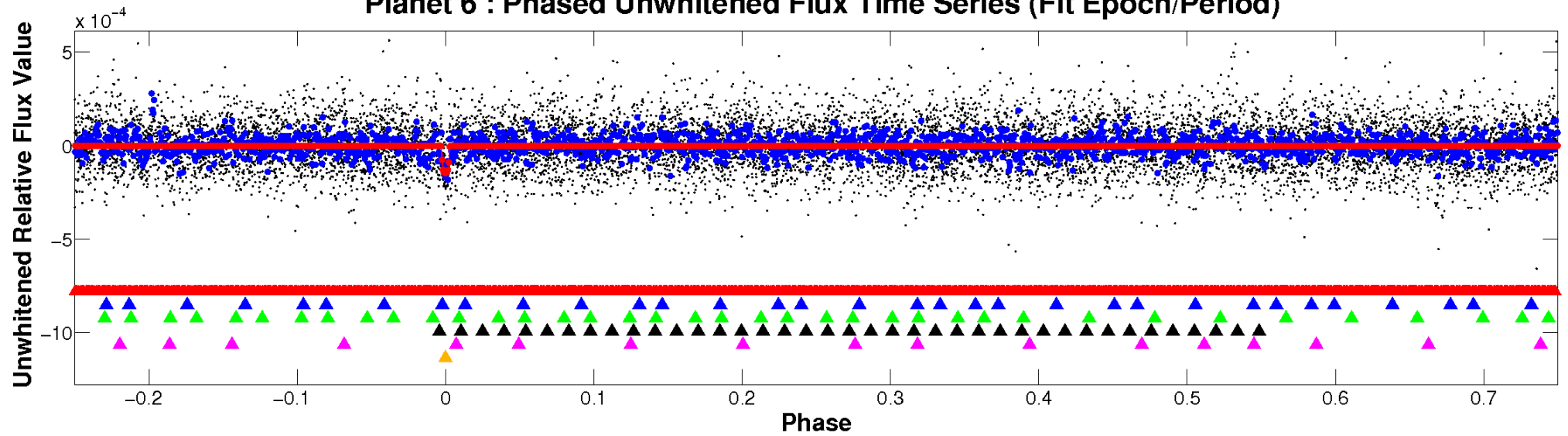
ALT Odd/Even

TCE 008308526-06

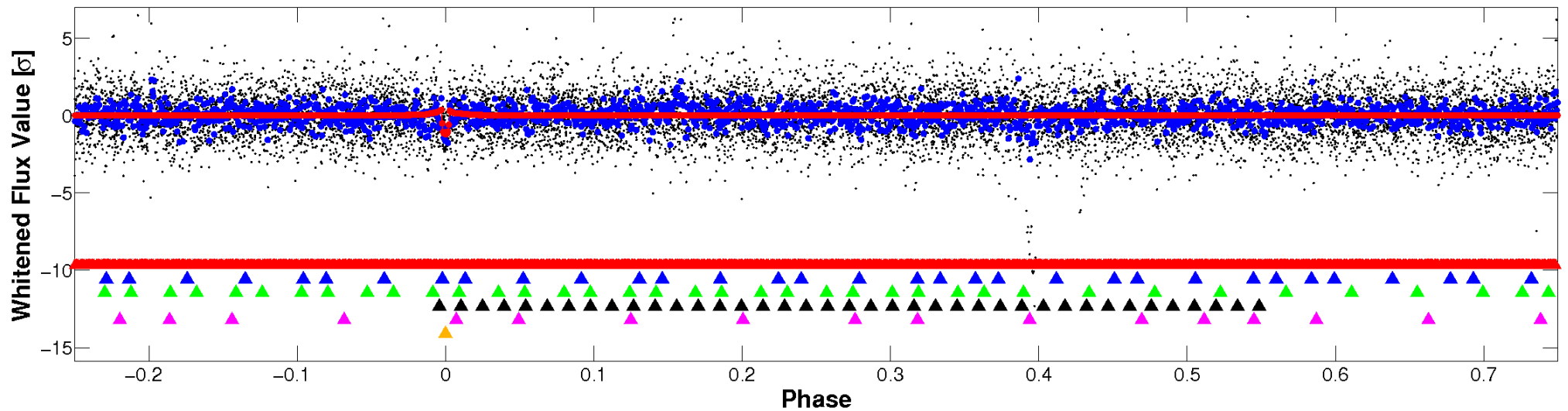


Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

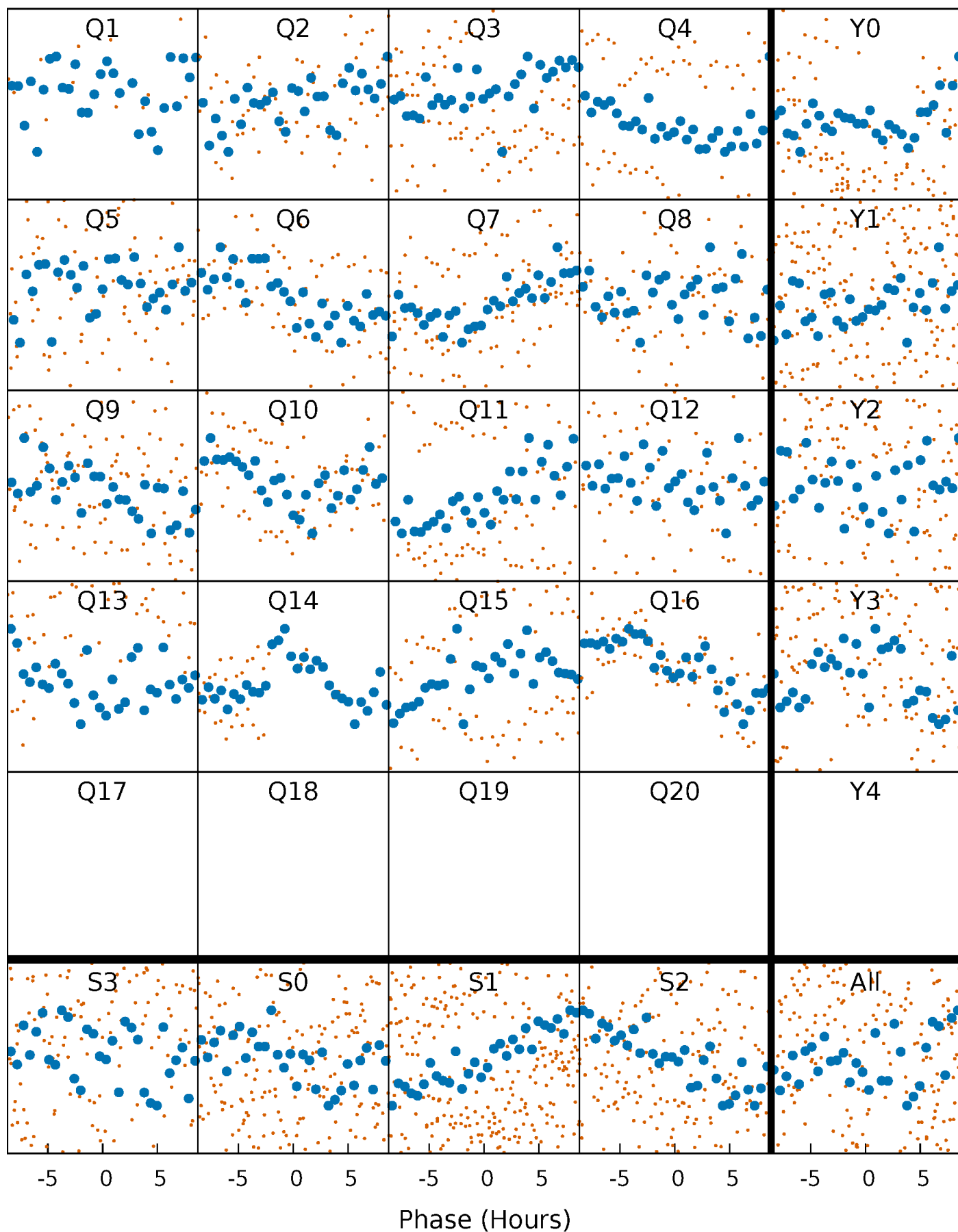


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



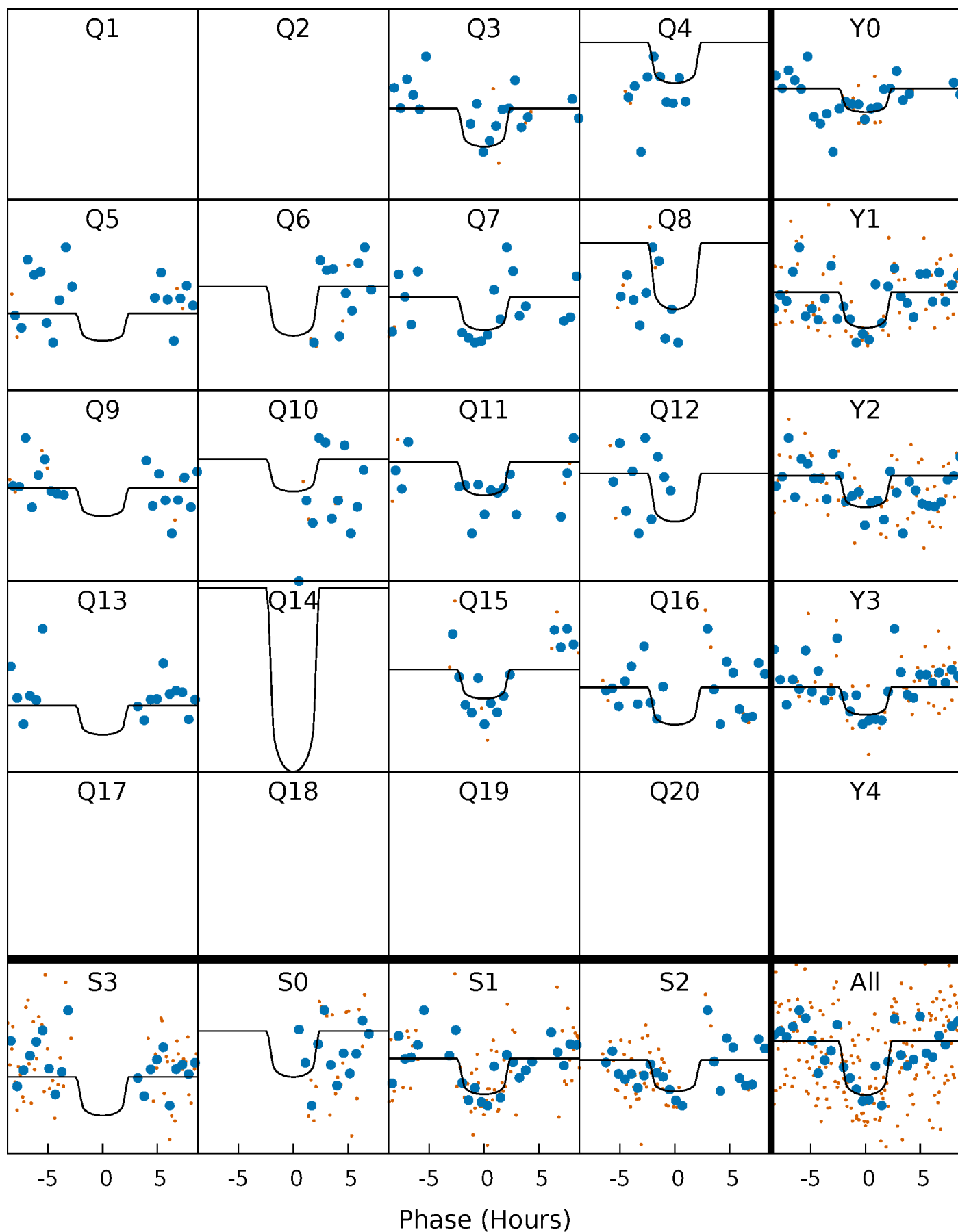
PDC Quarter-Phased Transit Curves

TCE 008308526-06 P= 36.820089 Days $T_0=158.168406$ (BKJD)



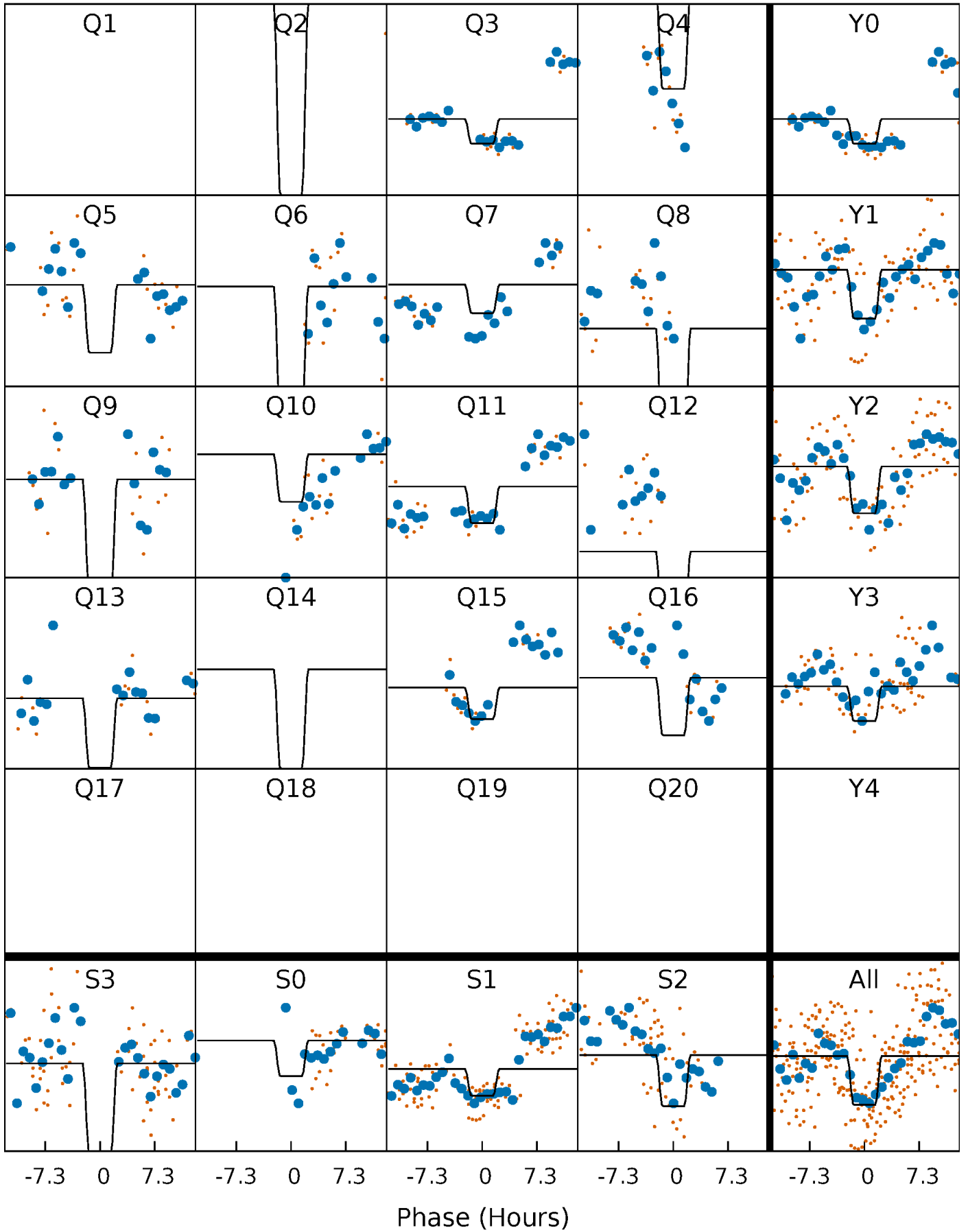
DV Quarter-Phased Transit Curves

TCE 008308526-06 P= 36.820089 Days $T_0=158.168406$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

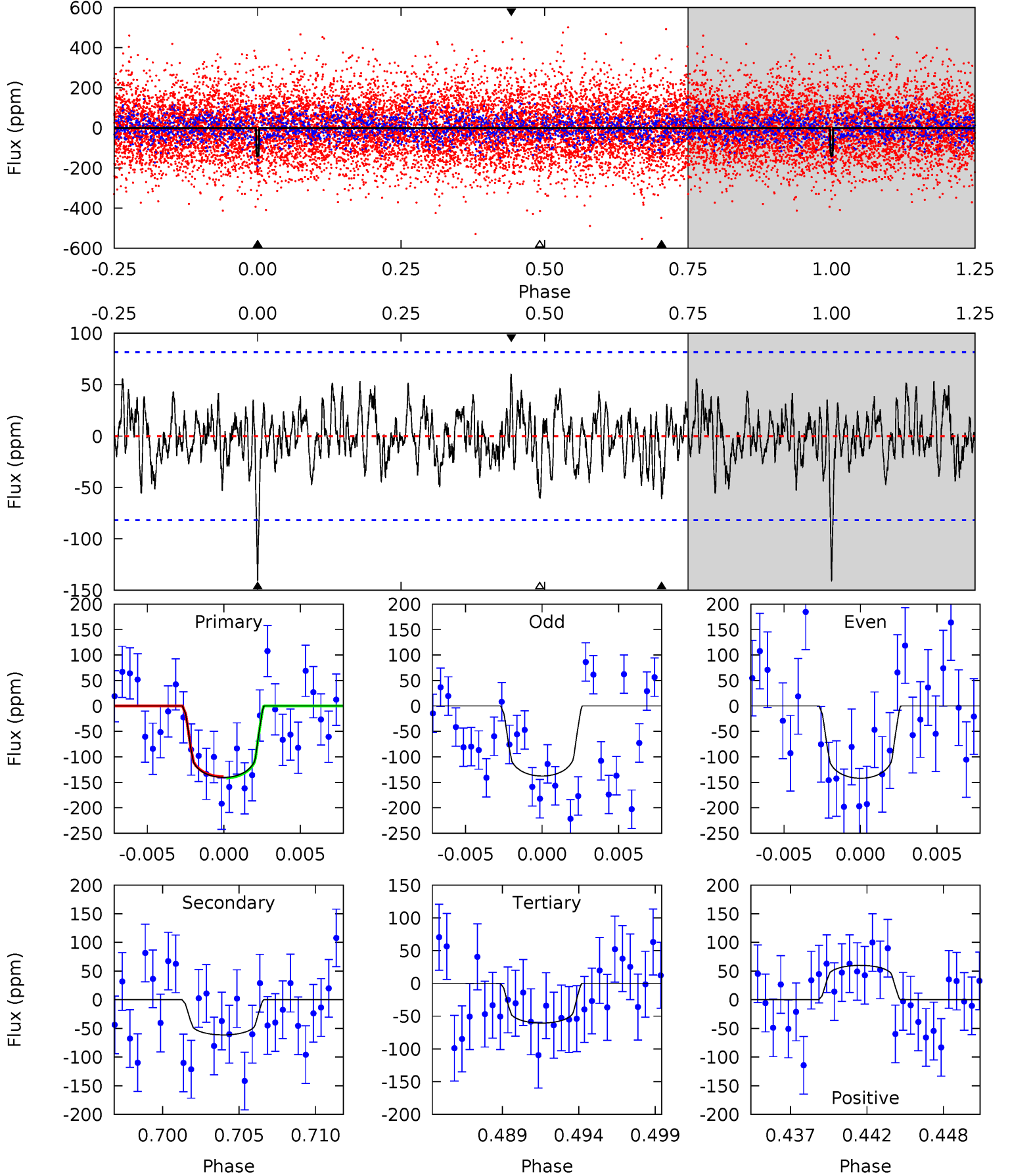
TCE 008308526-06 P= 36.823447 Days $T_0=158.120864$ (BKJD)



DV Model-Shift Uniqueness Test

008308526-06, P = 36.820089 Days, E = 121.348317 Days

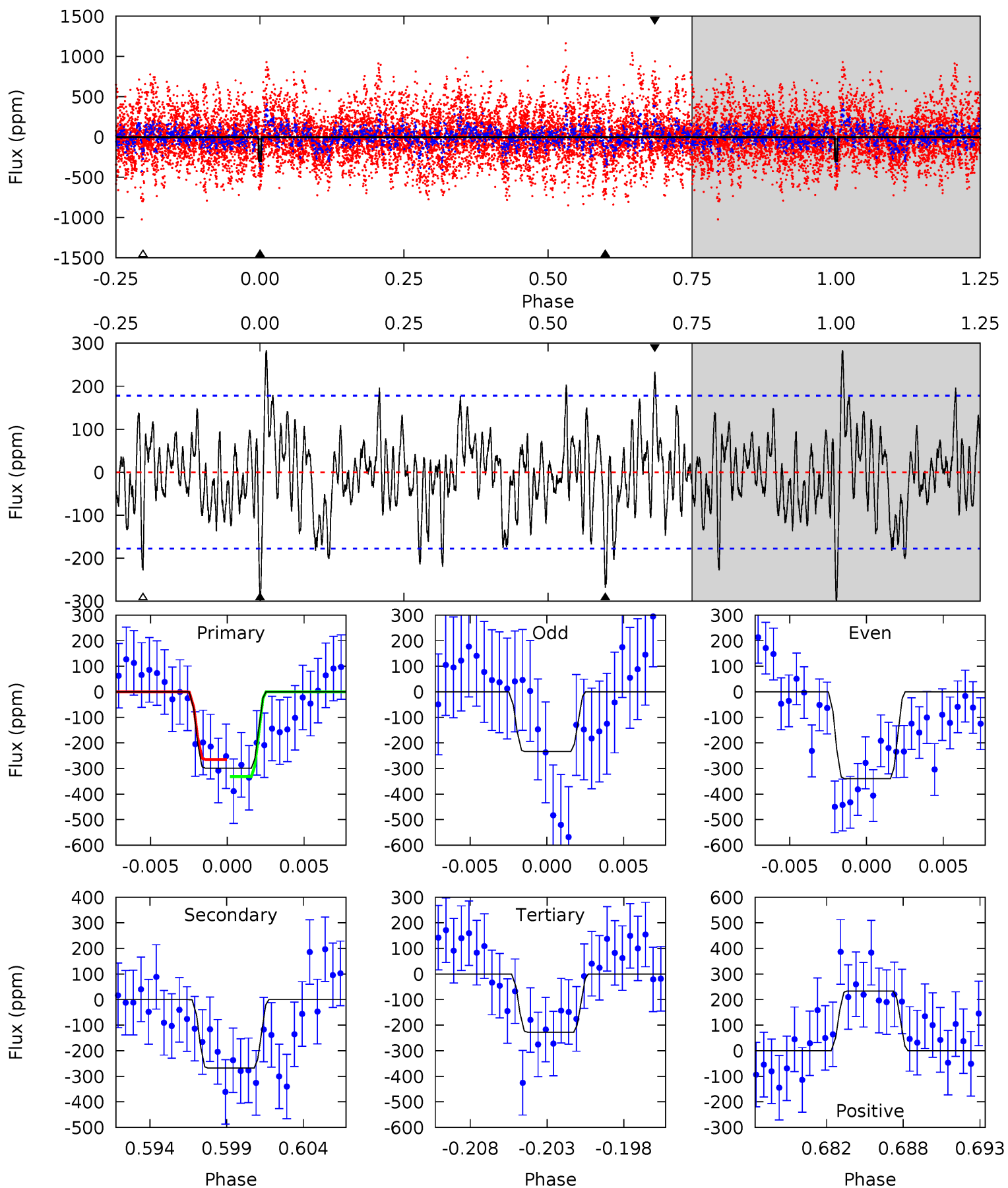
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.84	3.86	3.82	3.78	5.15	2.80	1.32	5.02	5.06	0.05	0.08	0.14	0.92	0.30	0.08



Alt Model-Shift Uniqueness Test

008308526-06, P = 36.823447 Days, E = 121.297417 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.66	7.77	6.60	6.77	5.15	2.79	2.25	2.07	1.90	1.17	1.00	1.48	0.70	0.49	0.98



Stellar Parameters For KIC 008308526

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6472^{+146}_{-194}	$4.132^{+0.198}_{-0.132}$	$-0.380^{+0.300}_{-0.300}$	$1.480^{+0.296}_{-0.362}$	$1.081^{+0.162}_{-0.133}$	$0.470^{+0.514}_{-0.184}$
	+2%/-3%	+5%/-3%	+79%/-79%	+20%/-24%	+15%/-12%	+109%/-39%
Source	PHO1	FLK73	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 008308526-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-61 ± 16	$2.50^{+2.19}_{-1.51}$	1023^{+60}_{-69}	4698^{+2646}_{-958}	258^{+1603}_{-181}
Alt.	-268 ± 35	$3.17^{+2.09}_{-1.95}$	1023^{+62}_{-71}	5833^{+4530}_{-1180}	721^{+3899}_{-462}

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

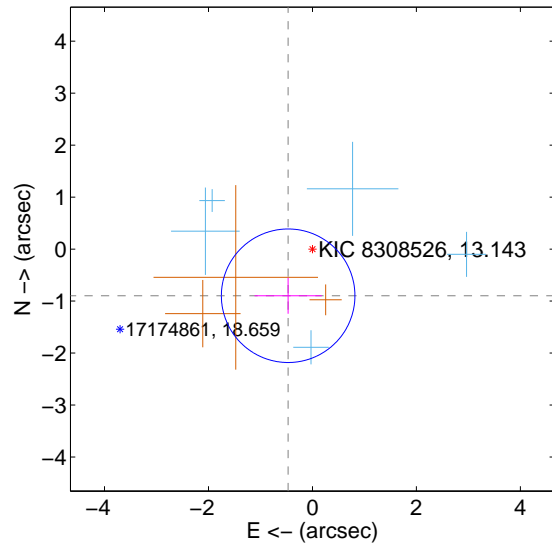
Supplemental centroid analysis for 008308526-06. Kepler magnitude: 13.14. Transit SNR 8.30

There are 5 quarters with good PRF difference image offsets

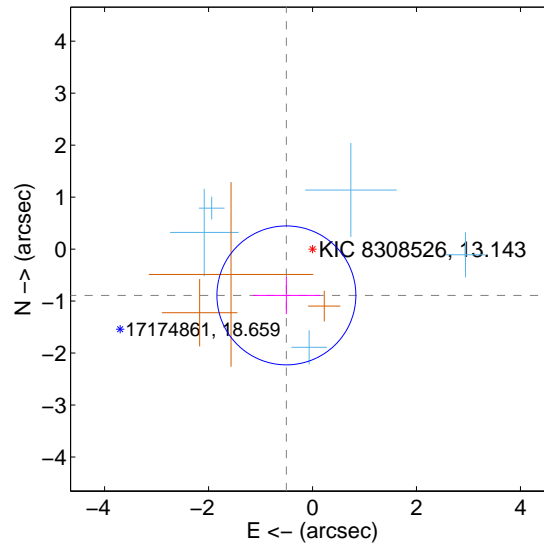
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.012 ± 0.428	2.36	0.467 ± 0.646	-0.897 ± 0.346
PRF-fit source offset from KIC position	1.022 ± 0.445	2.30	0.503 ± 0.644	-0.890 ± 0.360
photometric centroid source offset	1.72 ± 0.72	2.39	1.61 ± 0.72	0.60 ± 0.75

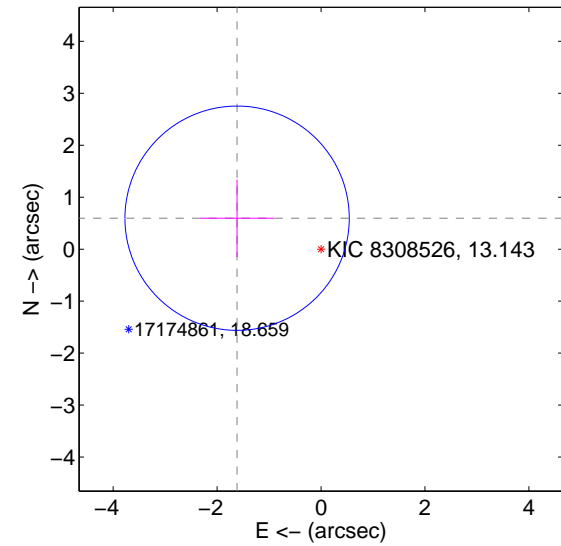
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

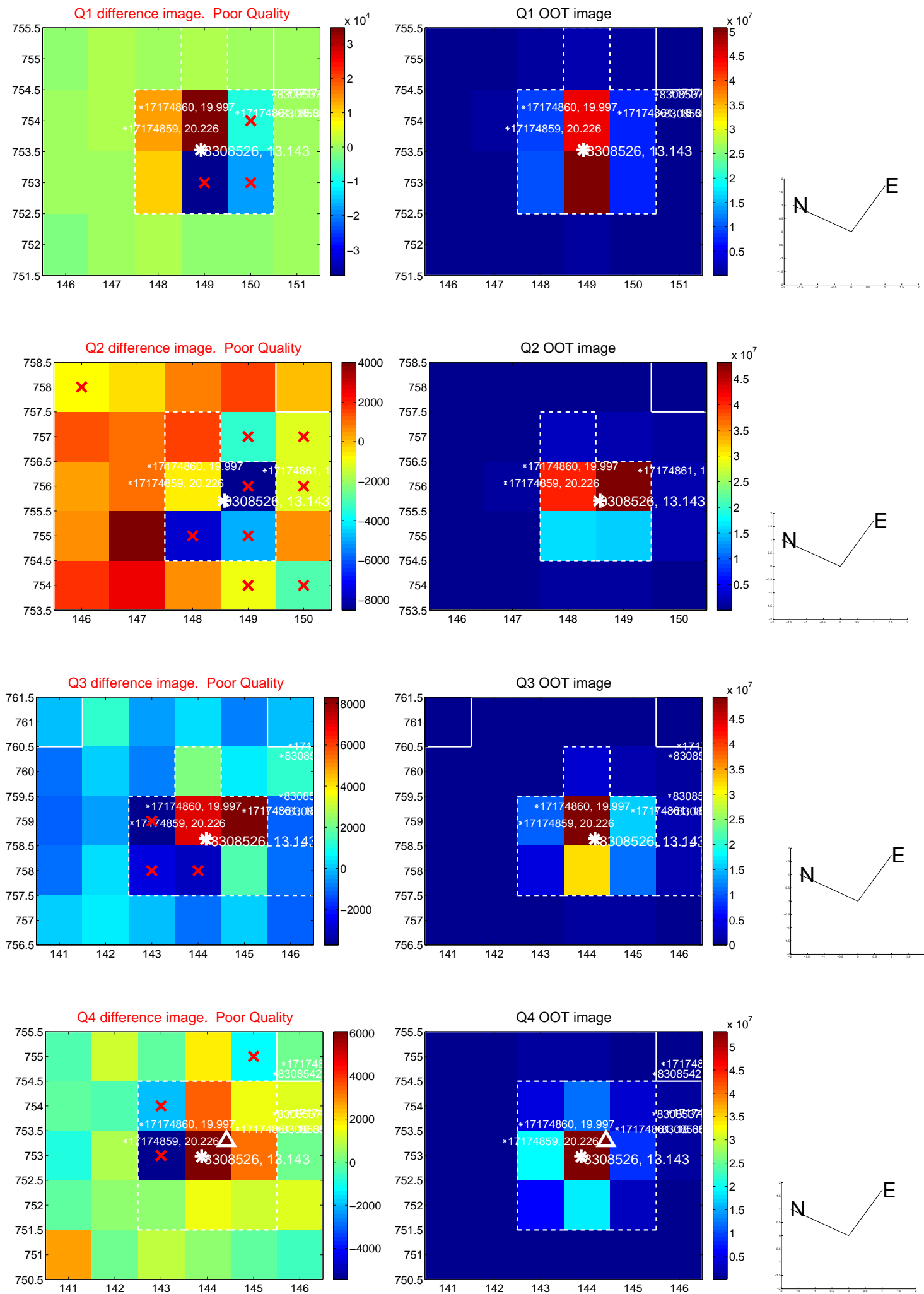


offset from photometric centroids

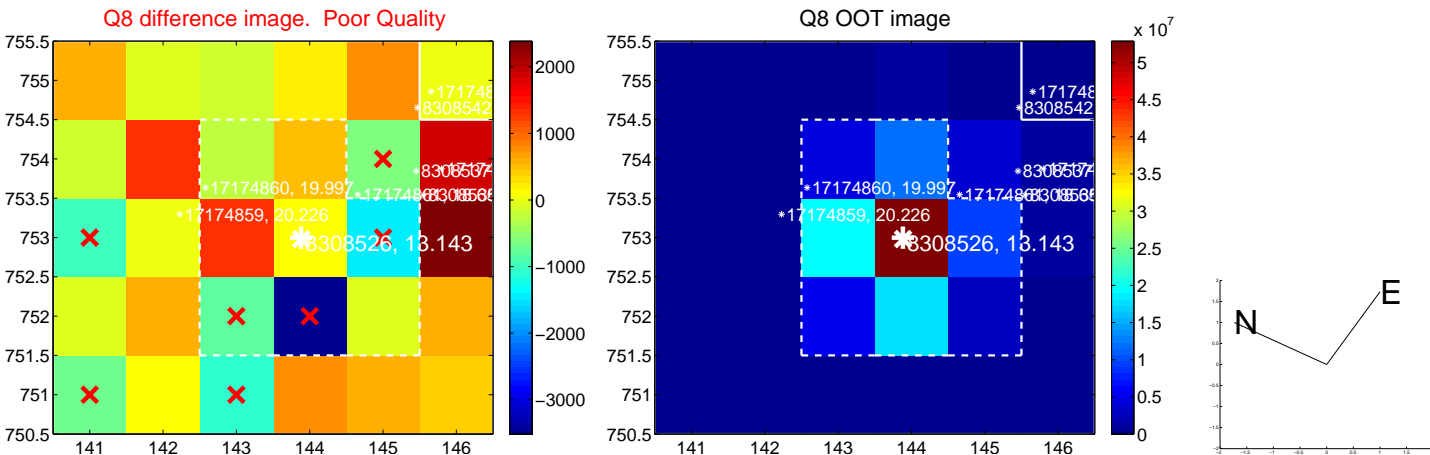
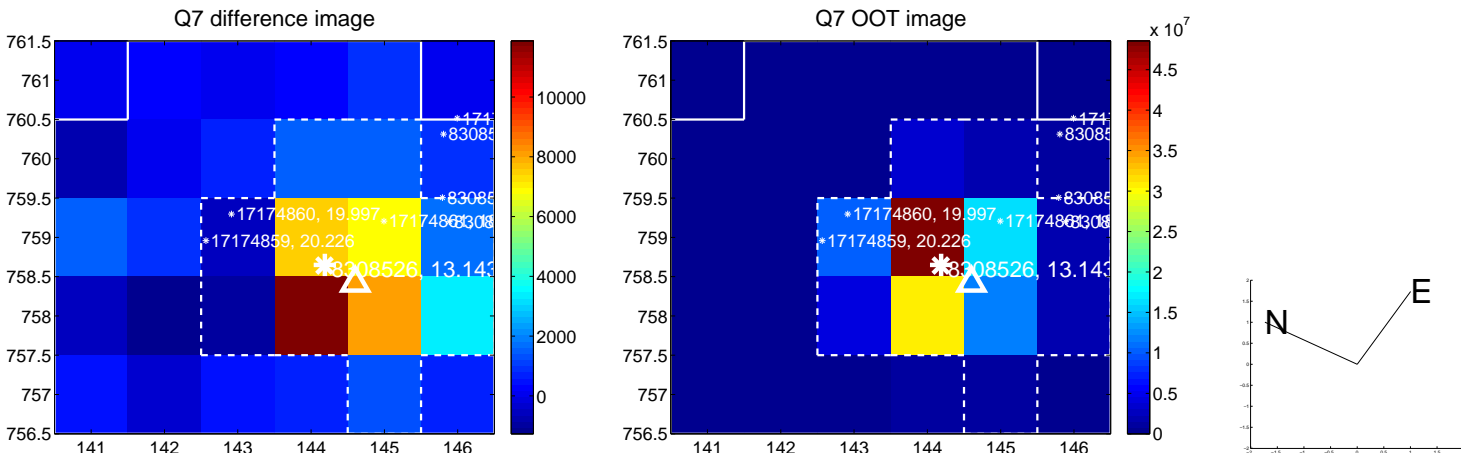
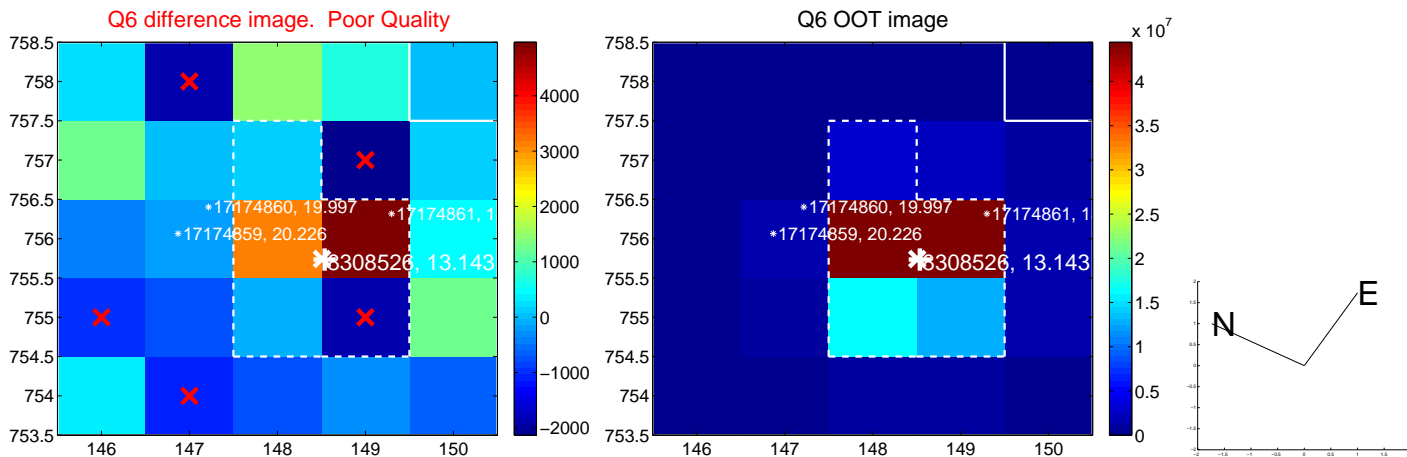
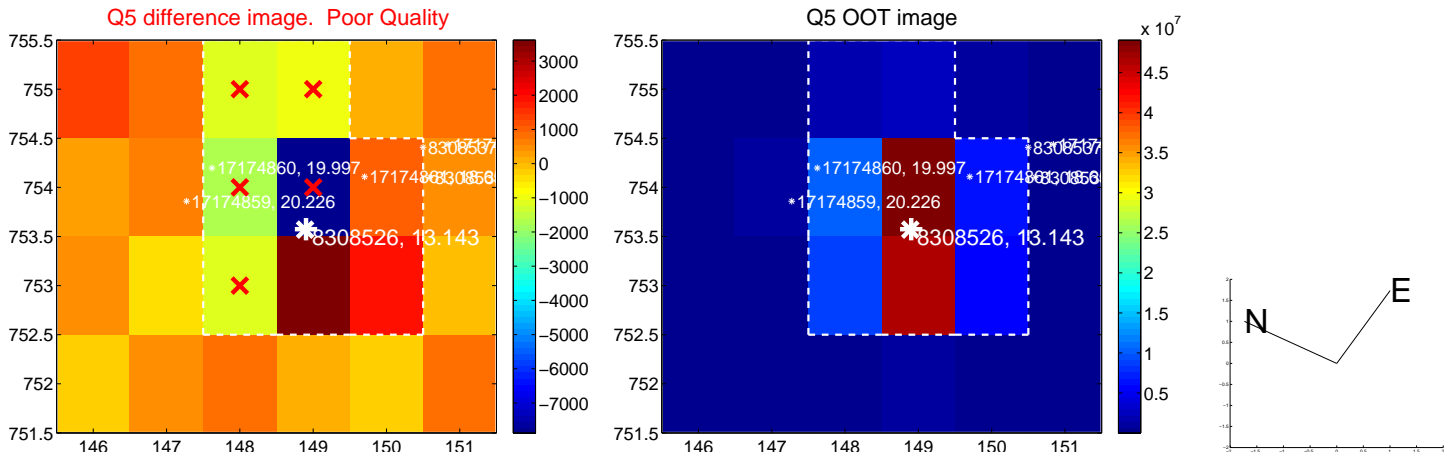


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

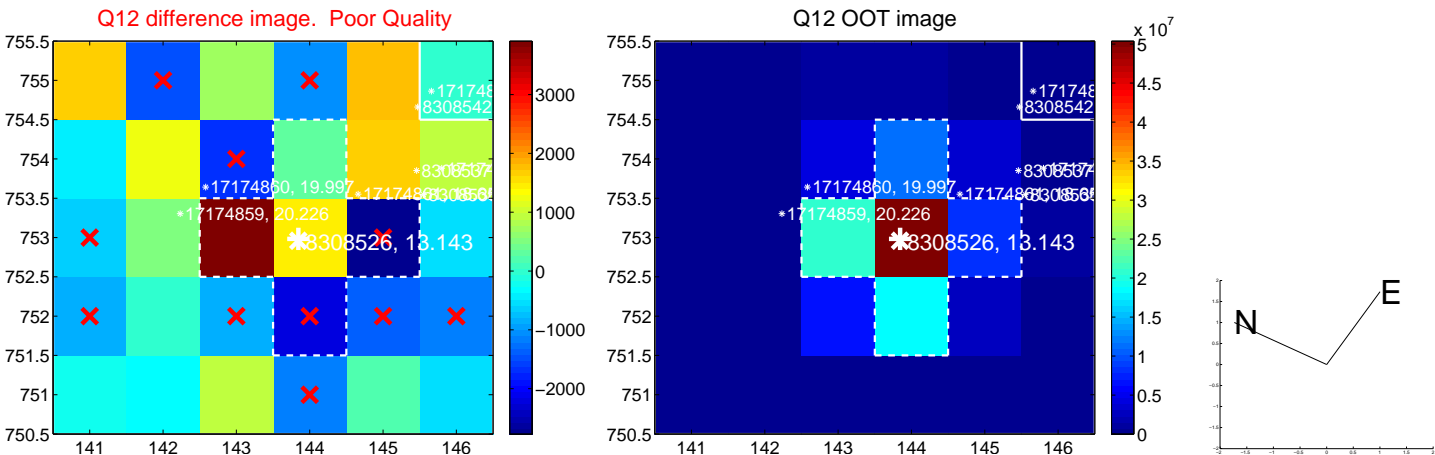
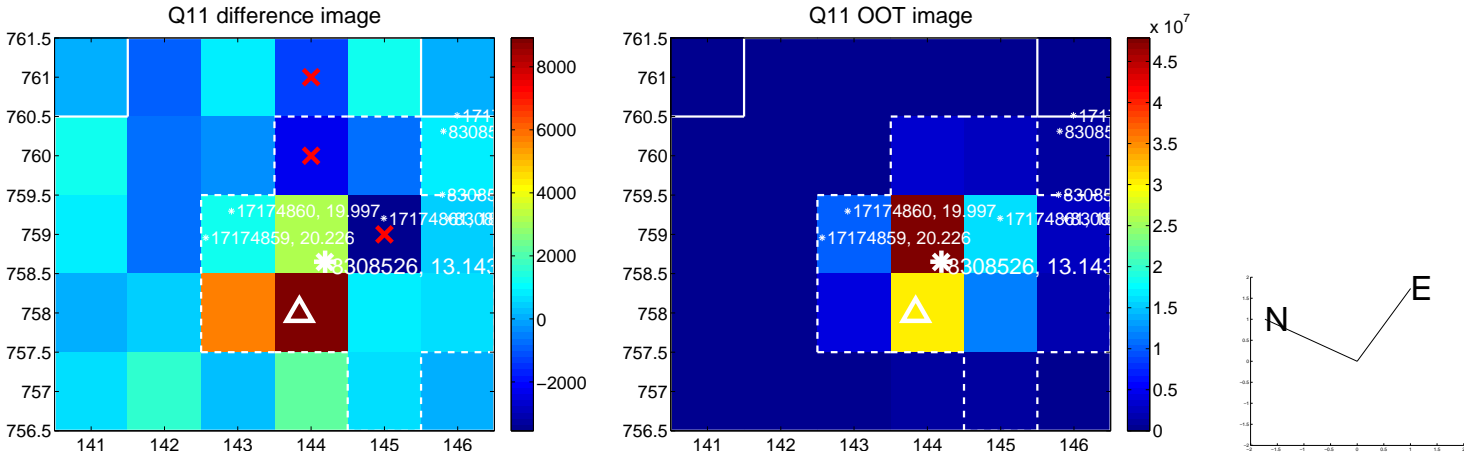
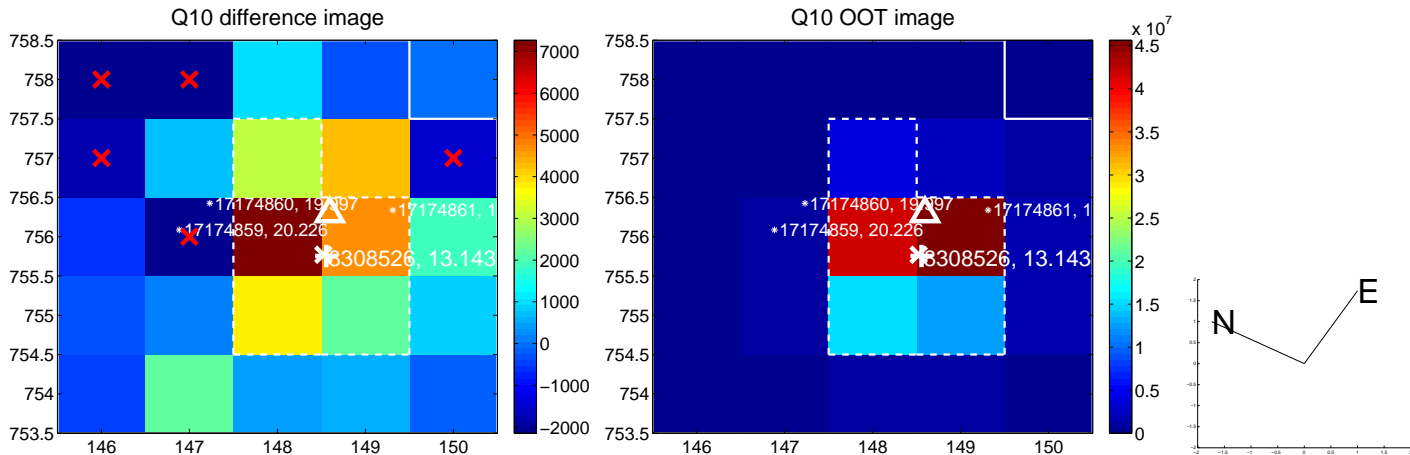
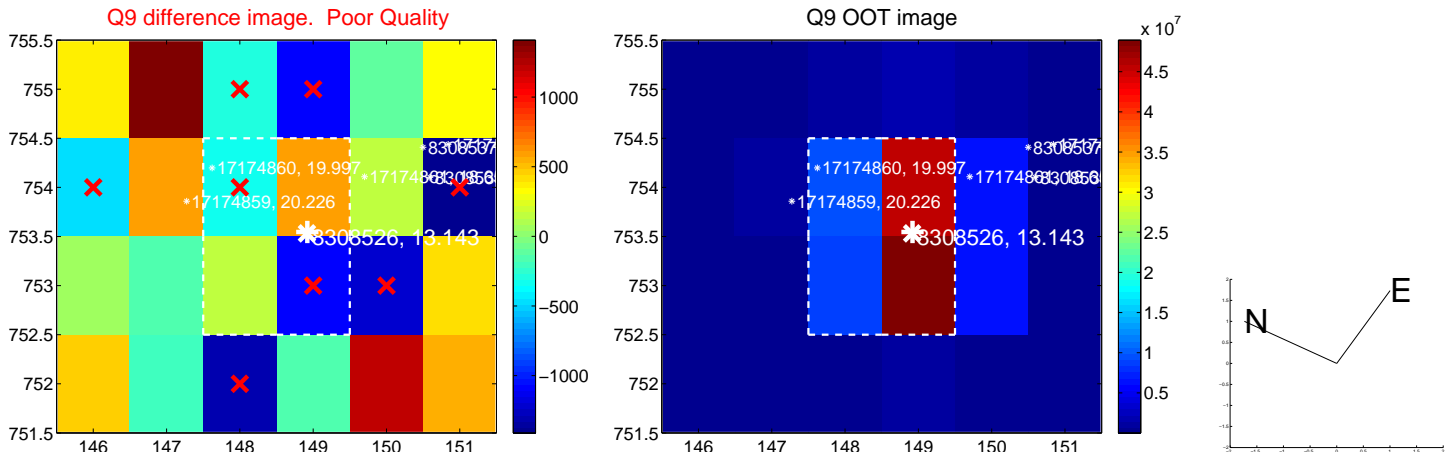
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



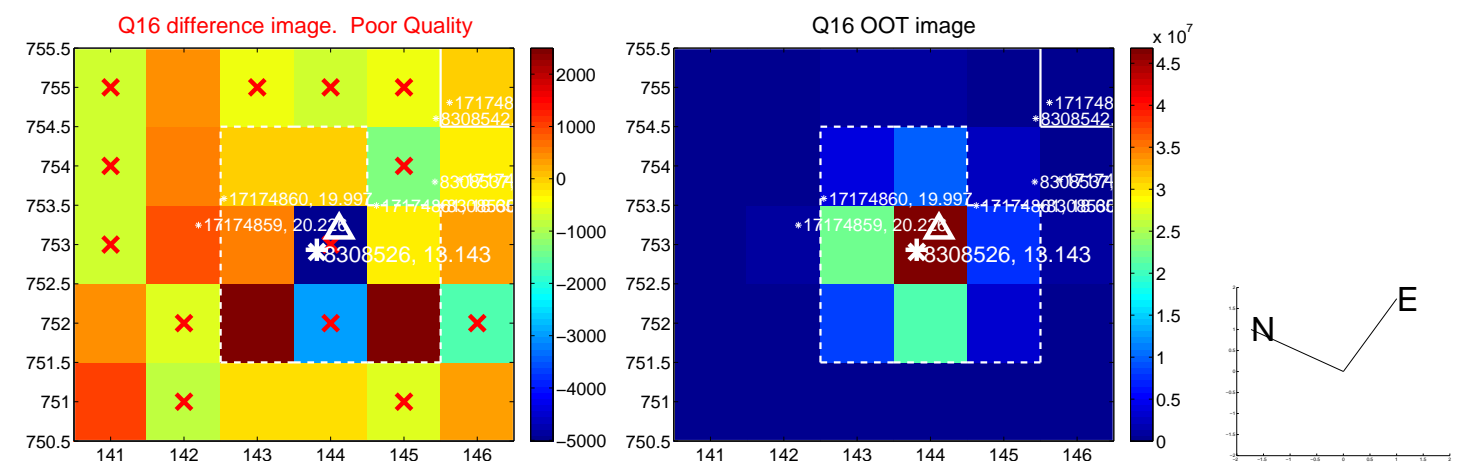
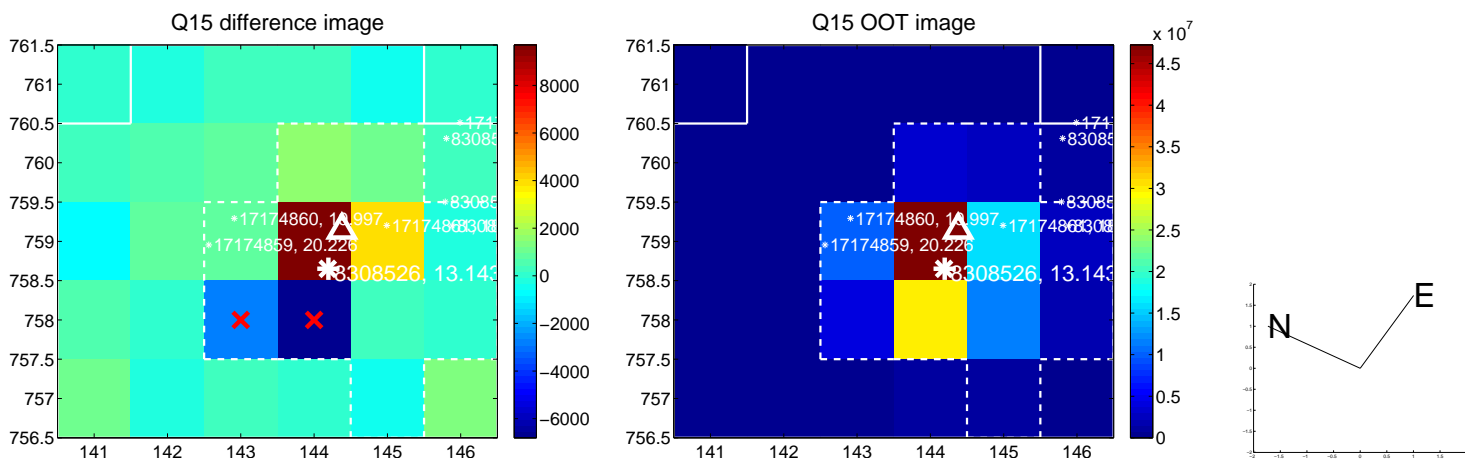
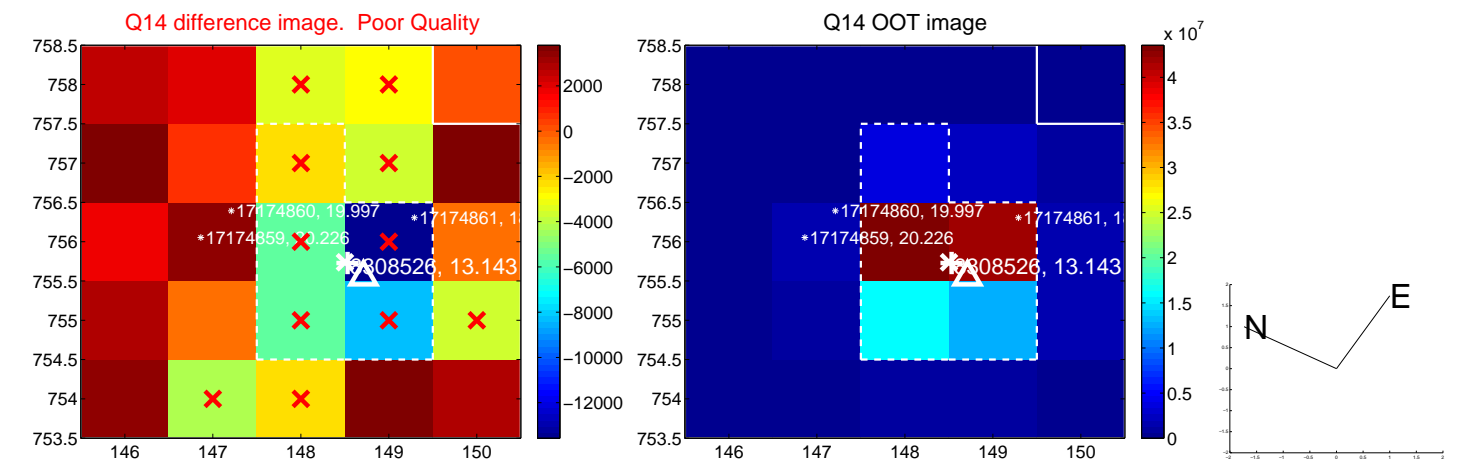
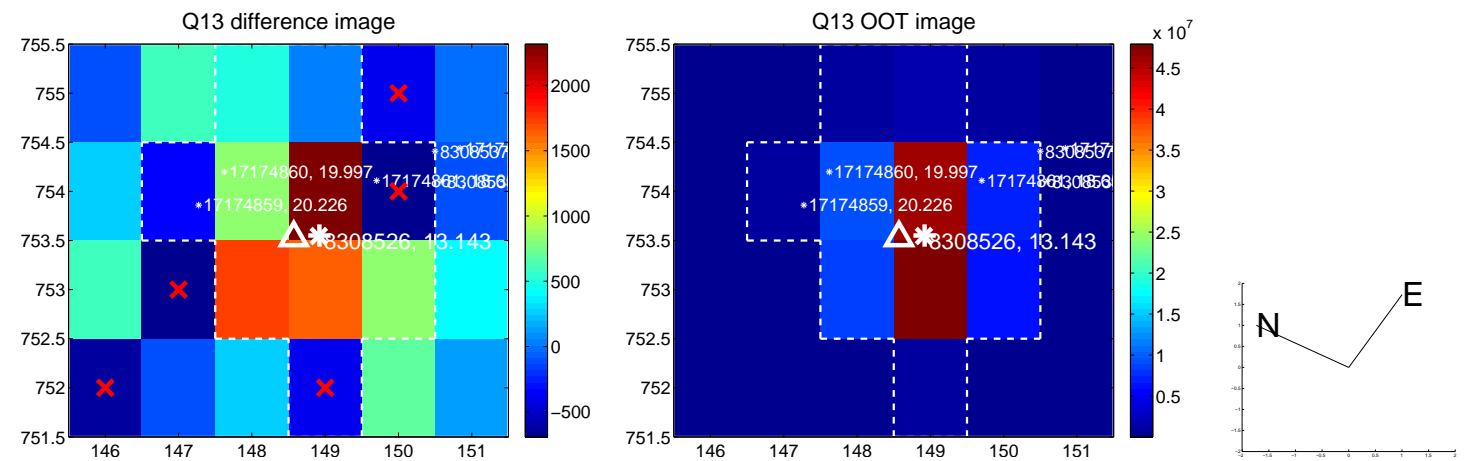
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



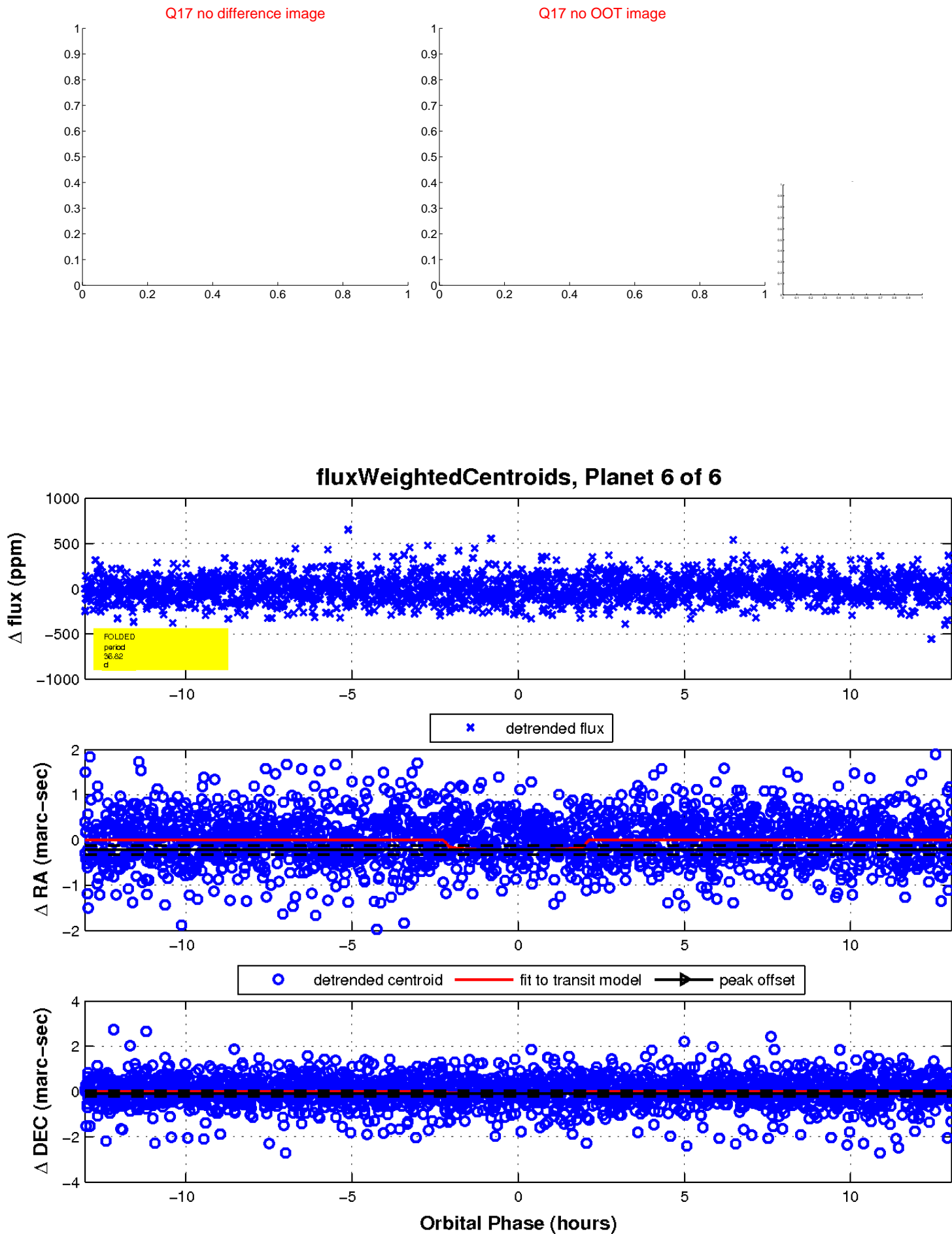
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

