

KIC 010675762

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})
010675762-01	OBS	No	0.718483	131.857685	417.1	0.872	17.3	16.2	3.50	7450	7.74	94372.21
010675762-02	OBS	No	0.718483	131.595308	555.6	0.554	14.8	18.3	3.50	7450	8.61	94372.19
010675762-03	OBS	No	0.718483	132.118032	435.1	0.500	11.2	13.0	3.50	7450	7.72	94372.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010675762-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
010675762-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010675762-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED

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

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

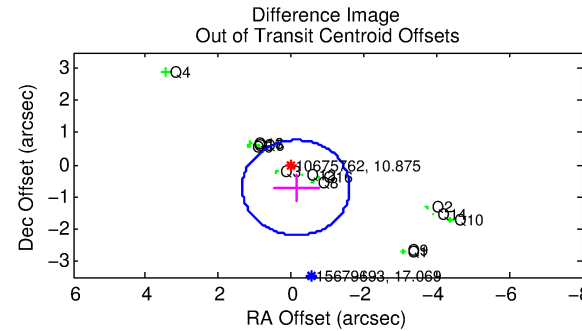
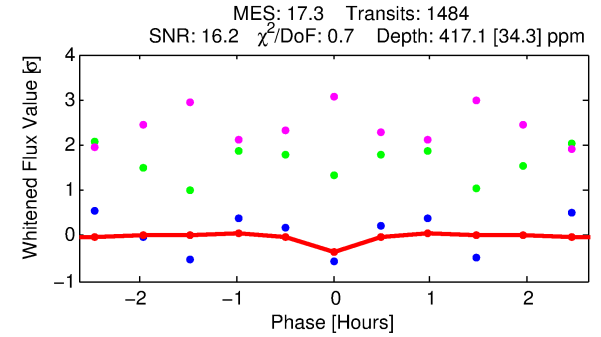
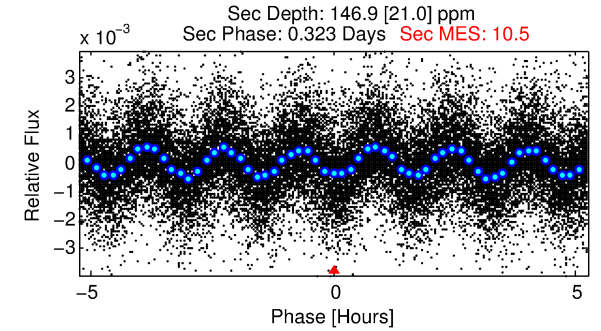
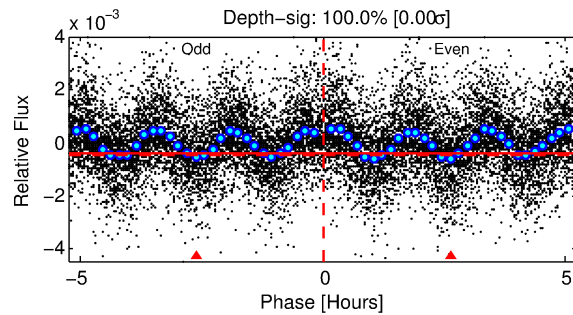
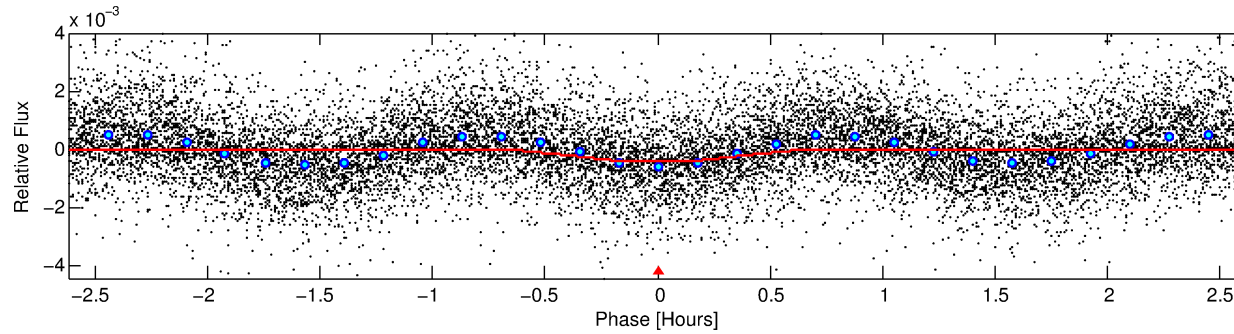
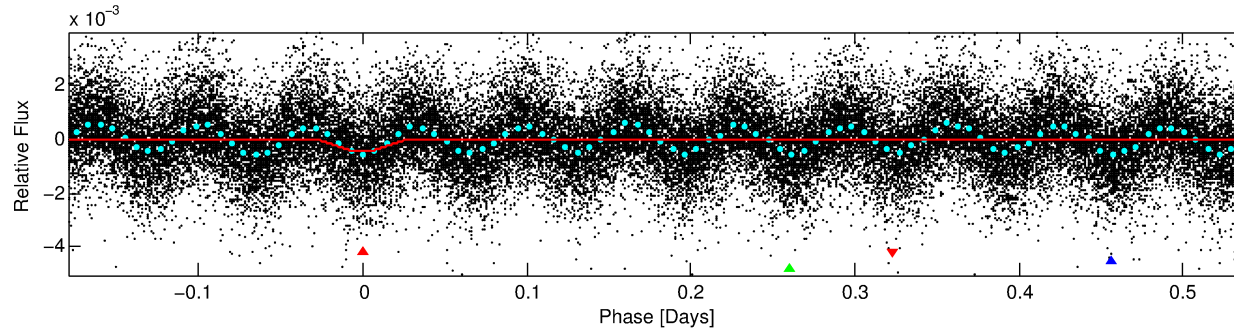
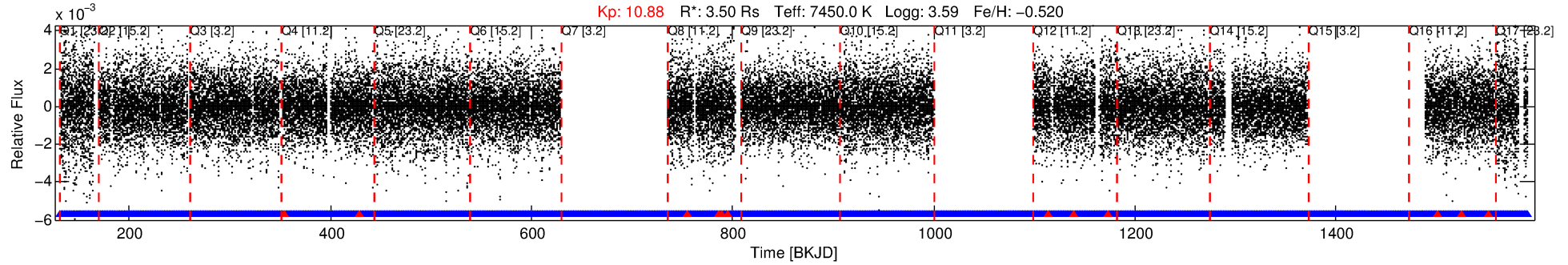
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010675762-01

No Significant Match Found

DV One-Page Summary

KIC: 10675762 Candidate: 1 of 3 Period: 0.718 d



DV Fit Results:

Period = 0.71848 [0.00001] d
Epoch = 131.8577 [0.0007] BKJD
Rp/R* = 0.0203 [0.0041]
a/R* = 4.74 [5.38]
b = 0.70 [0.87]
Seff = 94372.21 [95910.63]
Teq = 4469 [1136] K
Rp = 7.73 [4.79] Re
a = 0.0189 [0.0115] AU
Ag = 0.48 [0.53] [-0.98σ]
Teffp = 5762 [654] K [0.99σ]

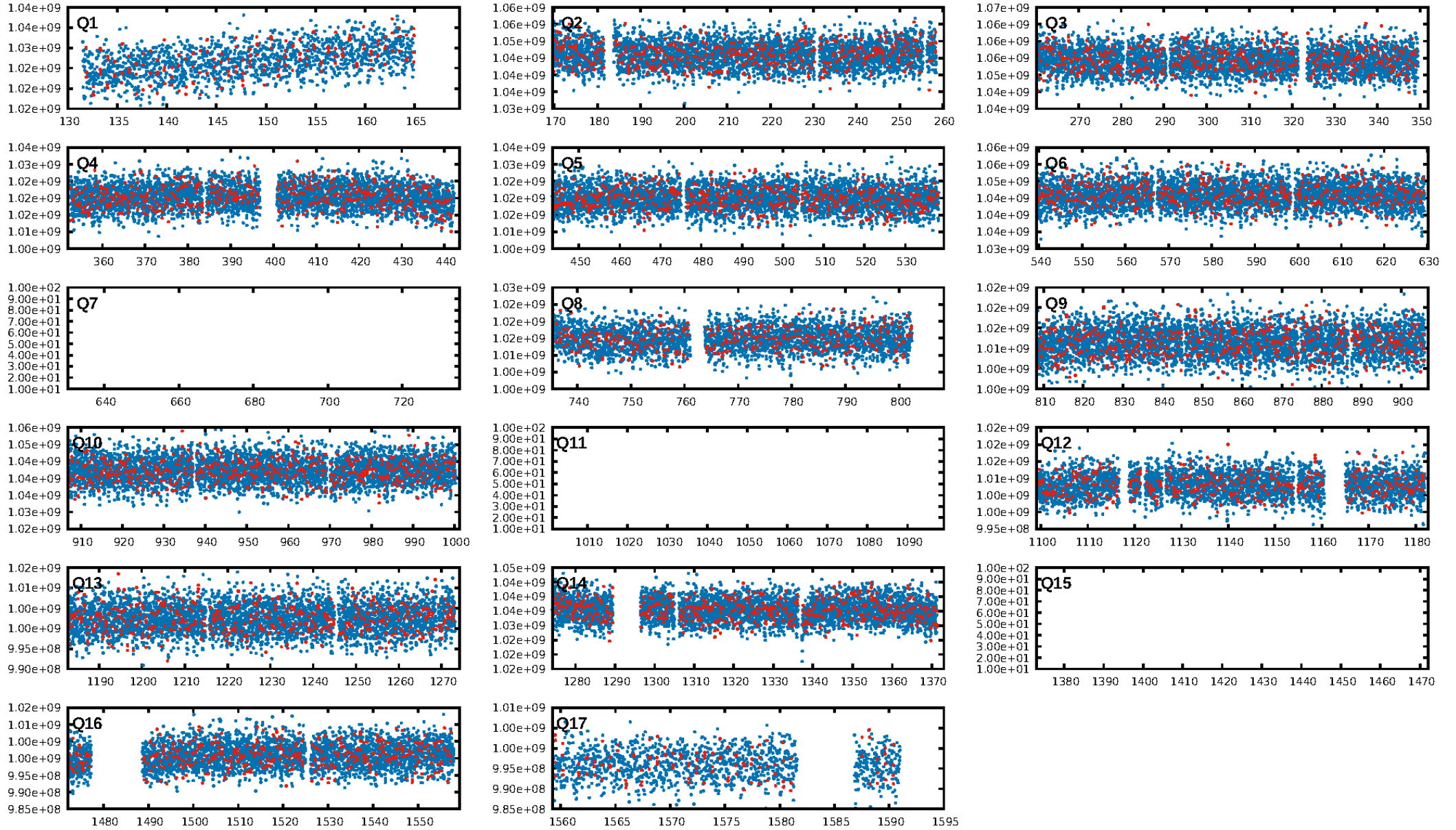
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.58e-58
RollingBand-fgt: 0.99 [1389/1402]
GhostDiagnostic-chr: 3.319
Centroid-sig: 0.0%
Centroid-so: 0.245 arcsec [2.70σ]
OotOffset-rm: 0.729 arcsec [1.48σ]
KicOffset-rm: 0.716 arcsec [1.24σ]
OotOffset-st: 4/1/4/5 [14]
KicOffset-st: 4/1/4/5 [14]
DiffImageQuality-fgm: 0.14 [2/14]
DiffImageOverlap-fno: 1.00 [14/14]

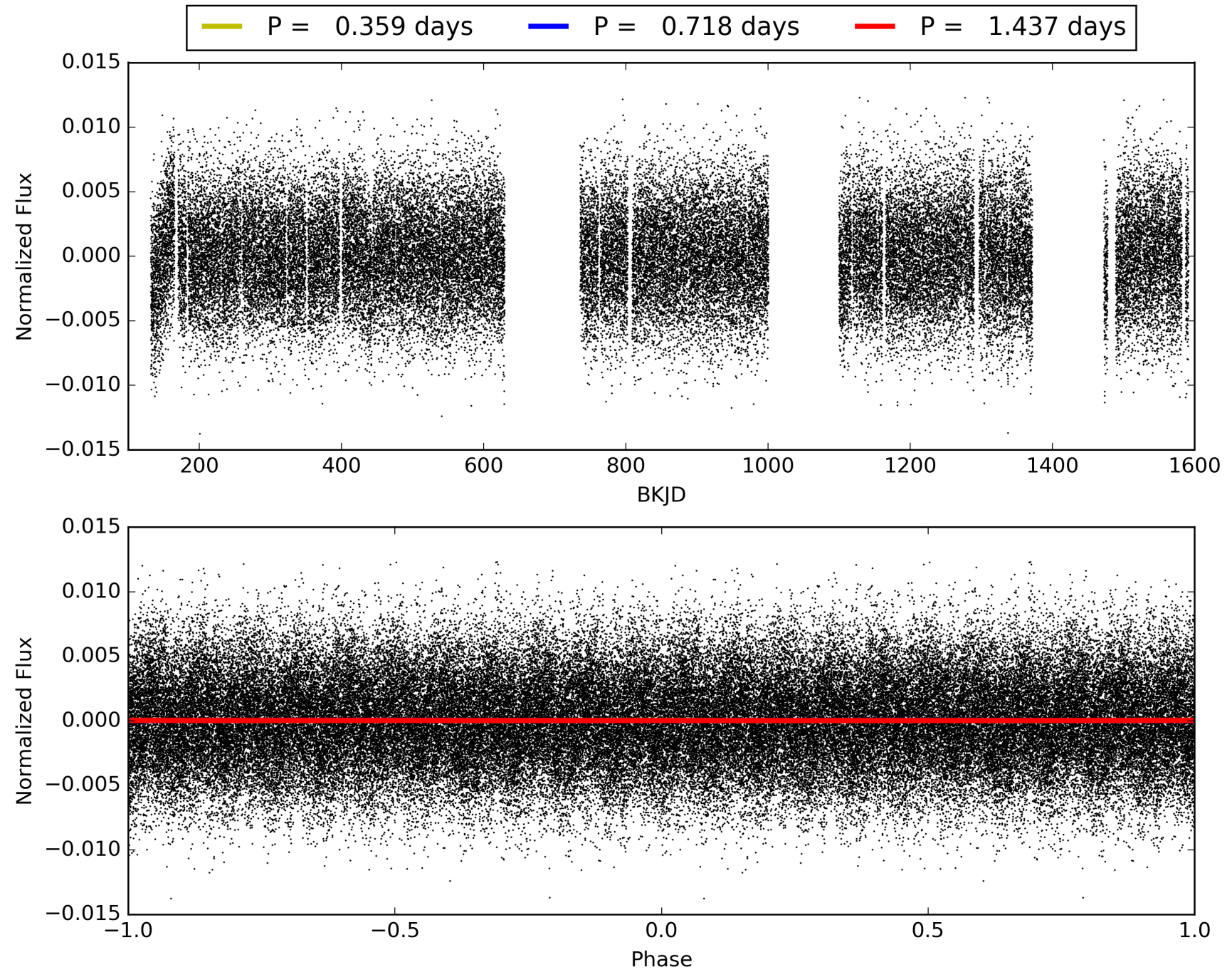
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 010675762-01, PDC Light Curves

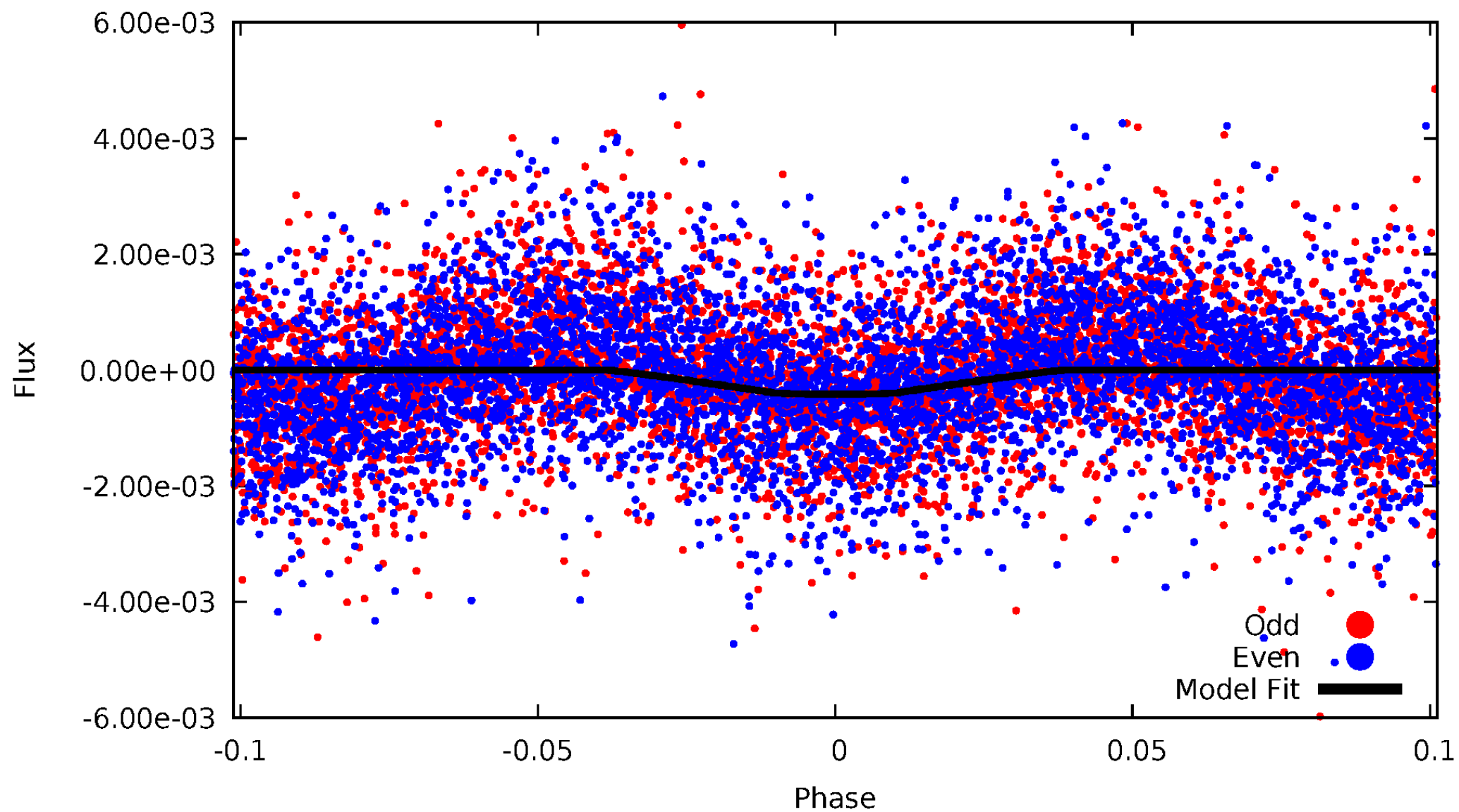


TCE 010675762-01



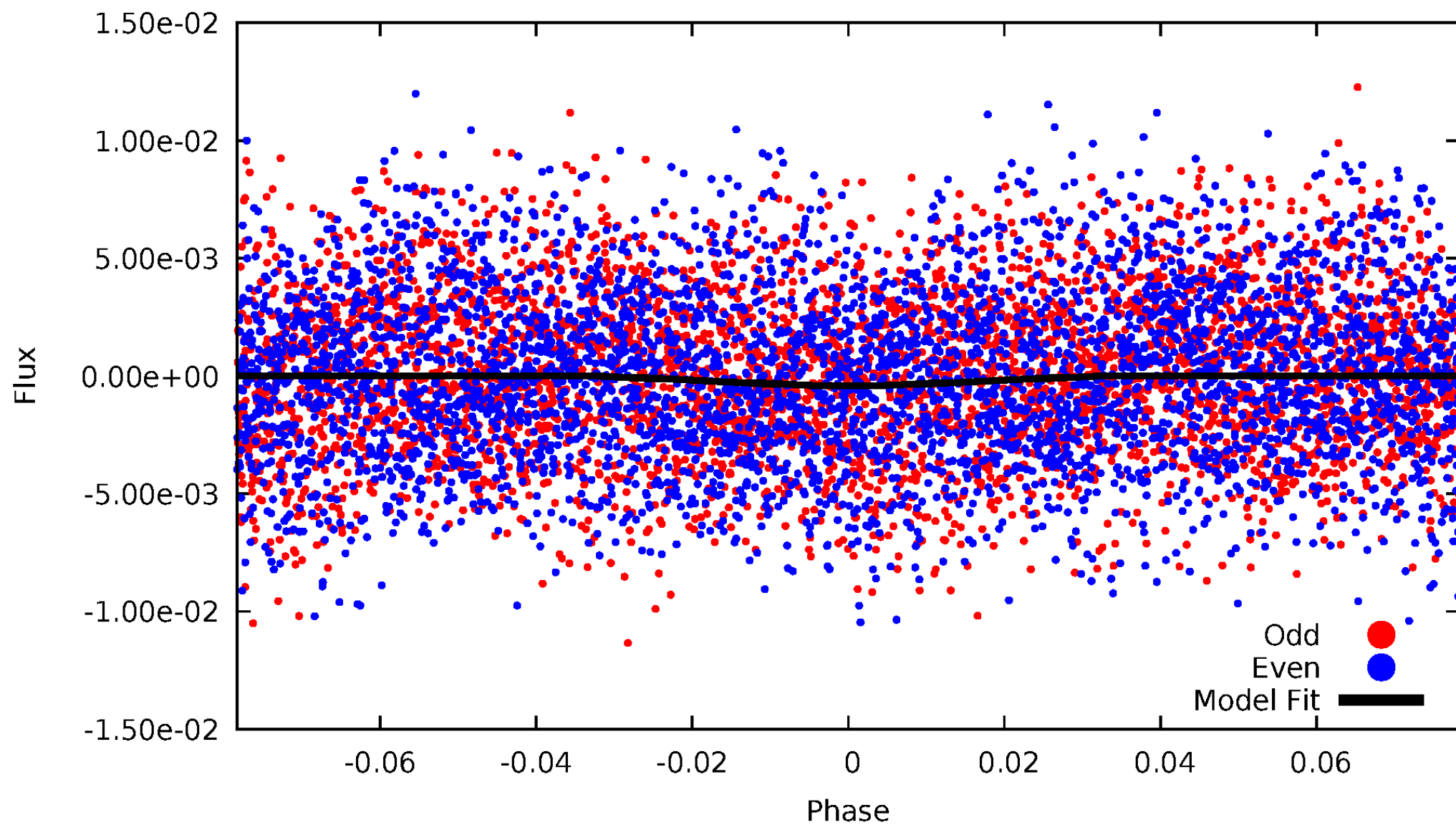
DV Odd/Even

TCE 010675762-01

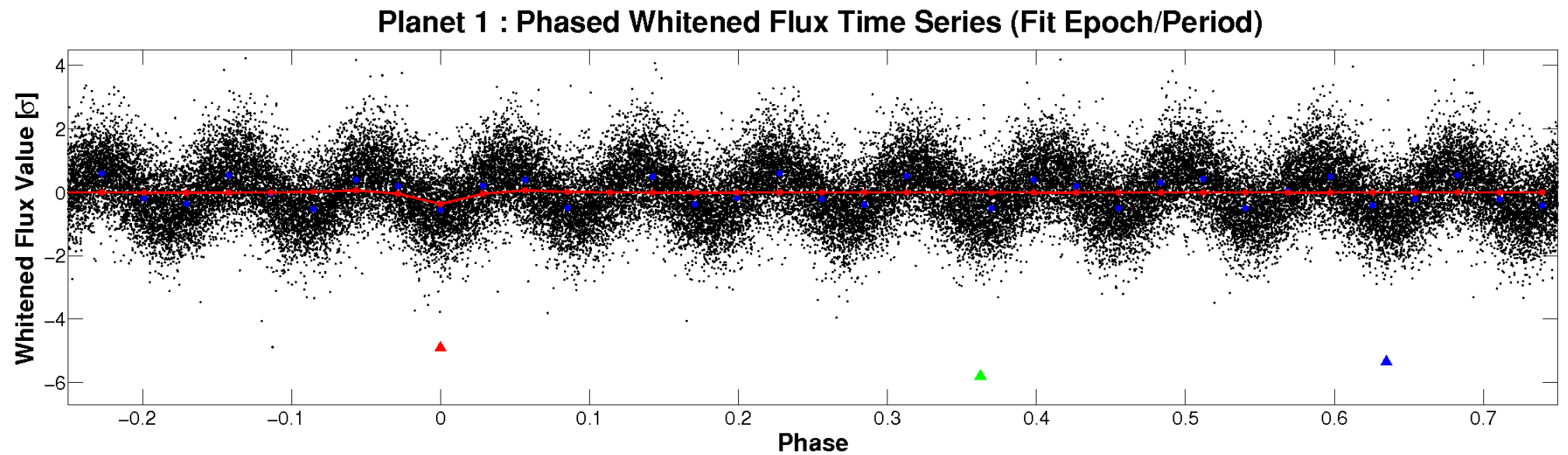
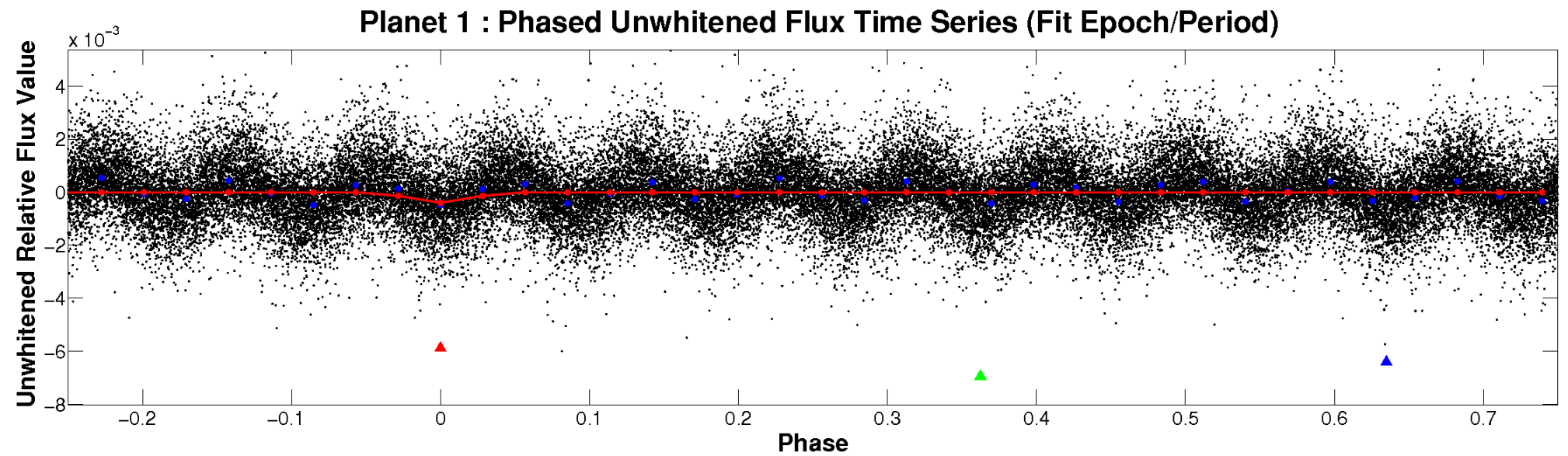


ALT Odd/Even

TCE 010675762-01

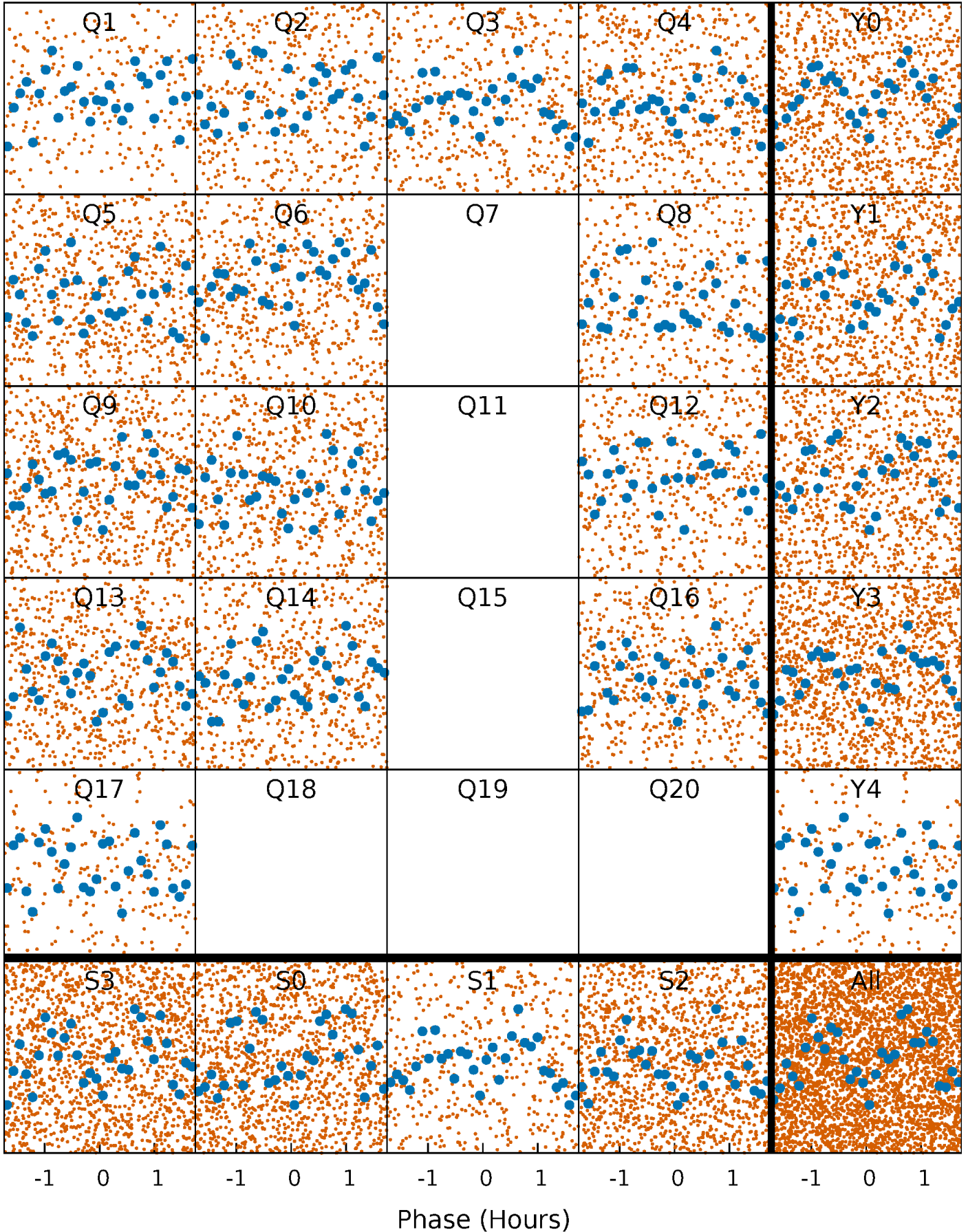


Non-Whitened Vs. Whitened Light Curve



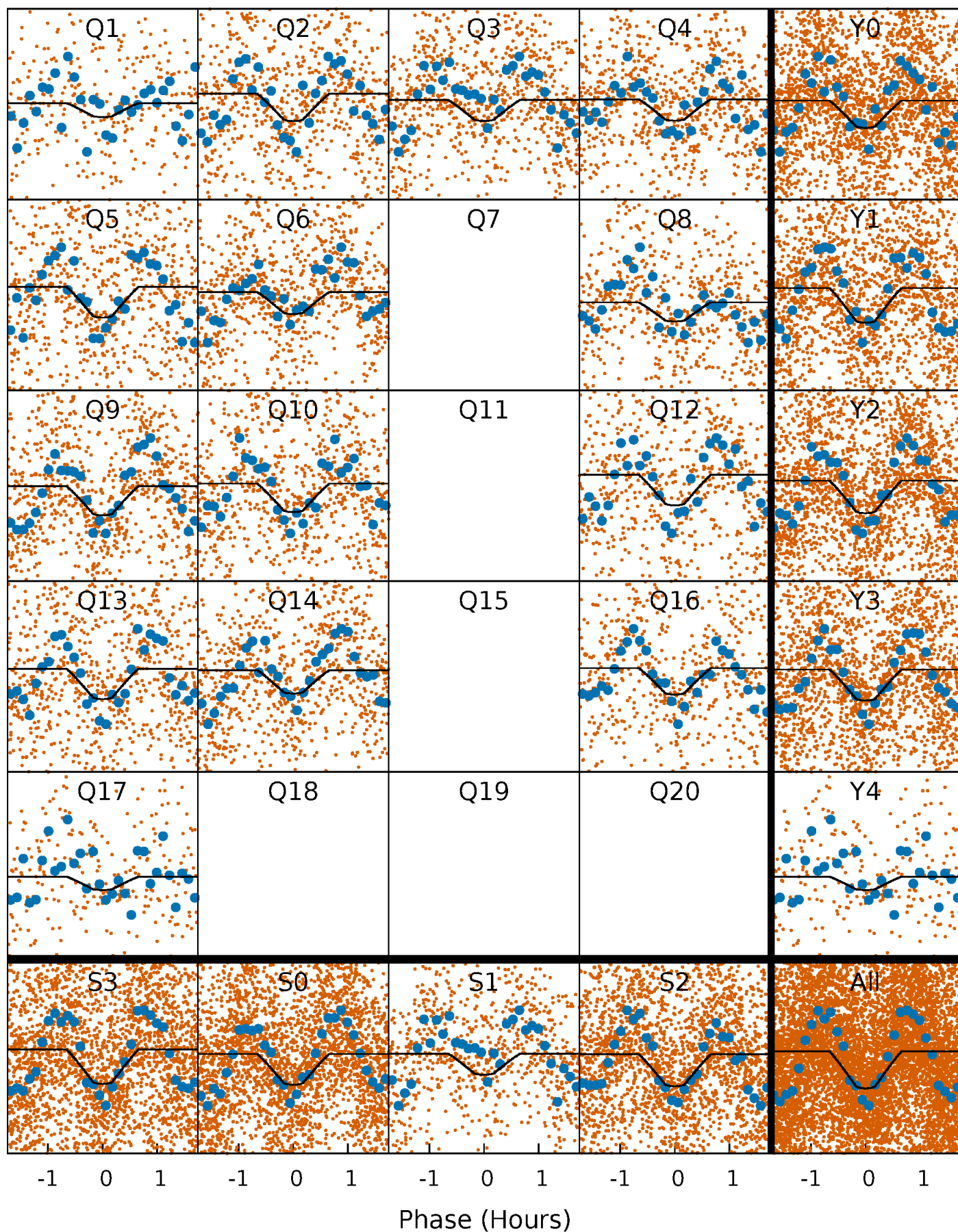
PDC Quarter-Phased Transit Curves

TCE 010675762-01 P= 0.718483 Days $T_0=131.857685$ (BKJD)



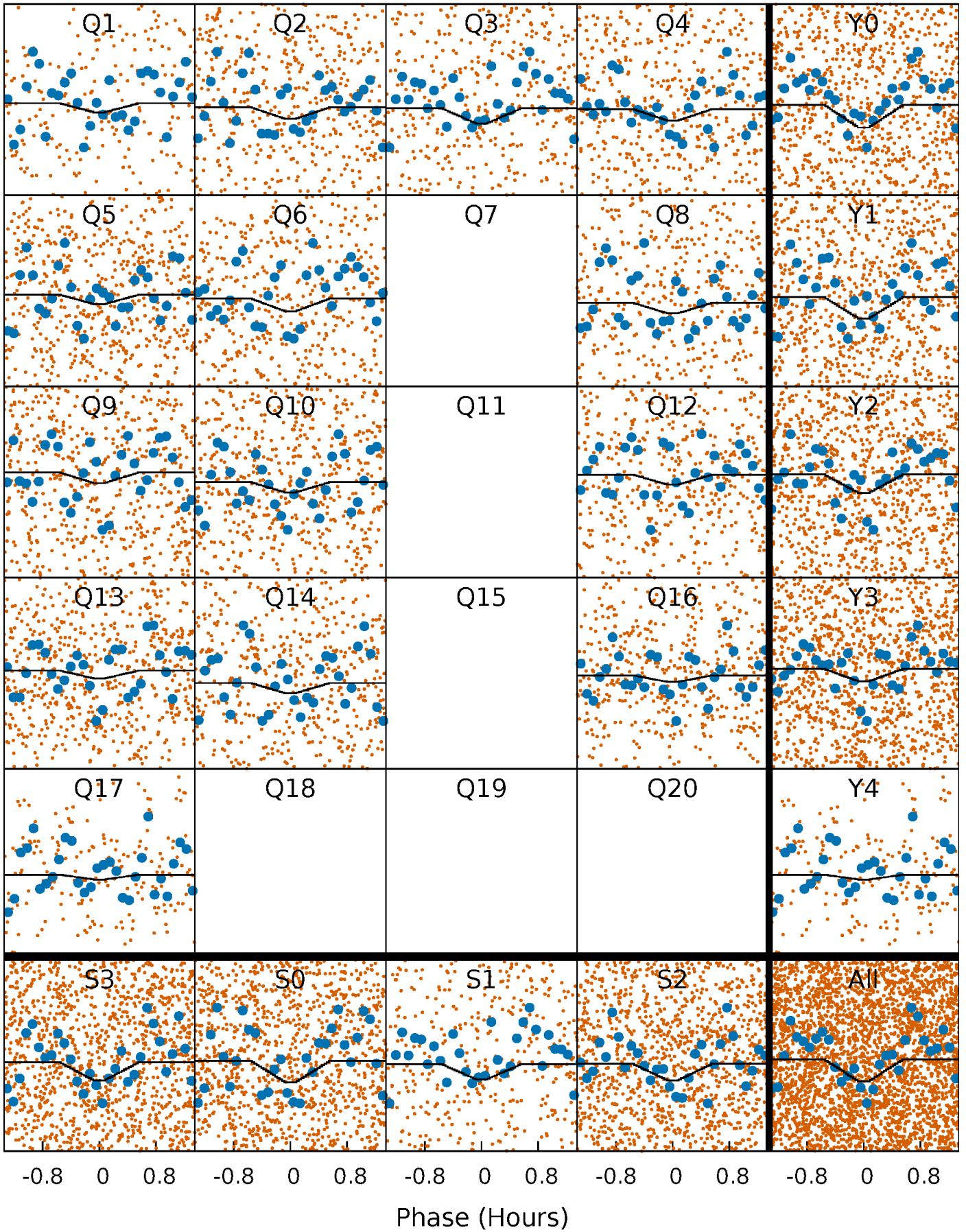
DV Quarter-Phased Transit Curves

TCE 010675762-01 P= 0.718483 Days $T_0=131.857685$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

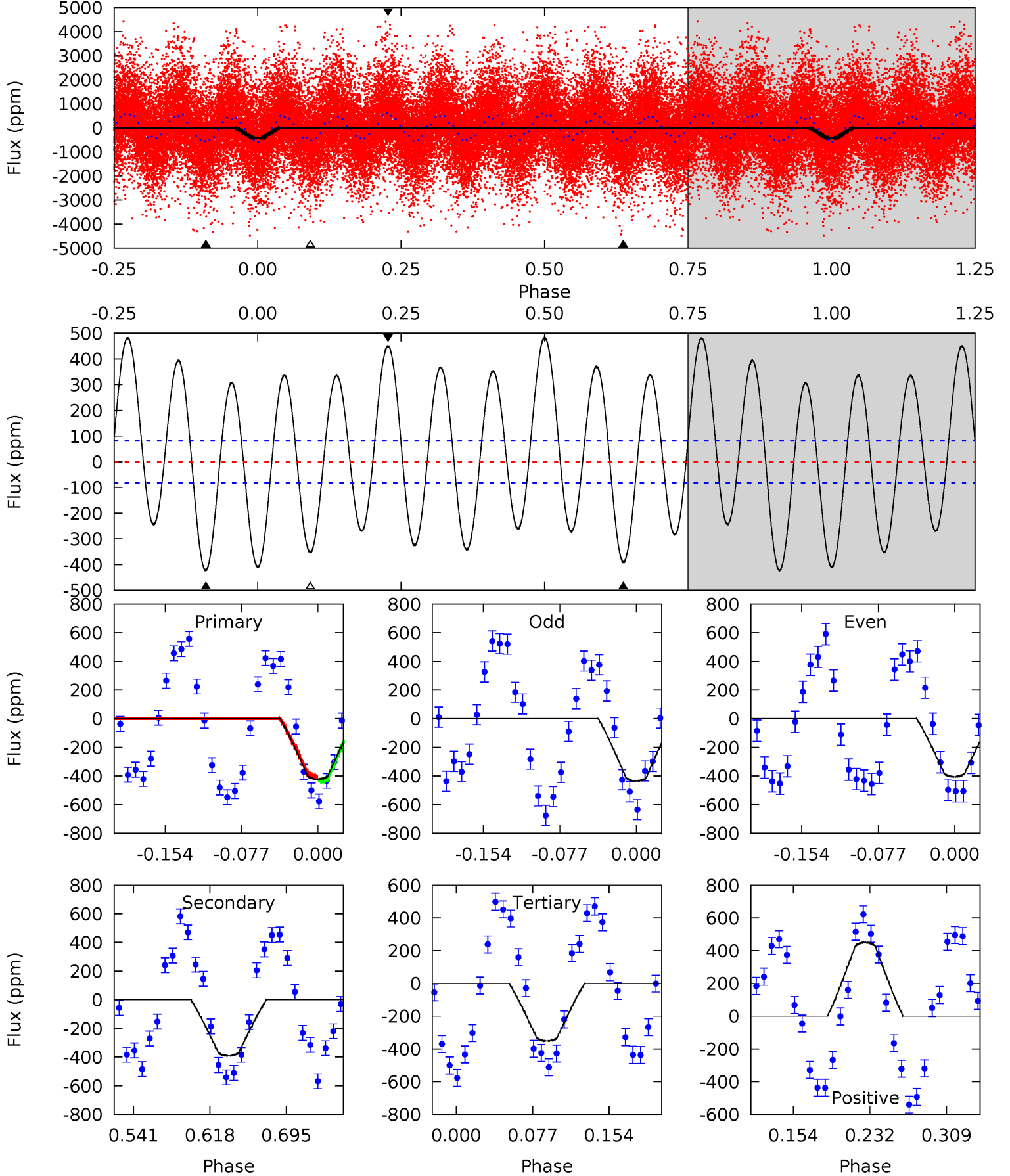
TCE 010675762-01 P= 0.718483 Days $T_0=131.857689$ (BKJD)



DV Model-Shift Uniqueness Test

010675762-01, P = 0.718483 Days, E = 131.139202 Days

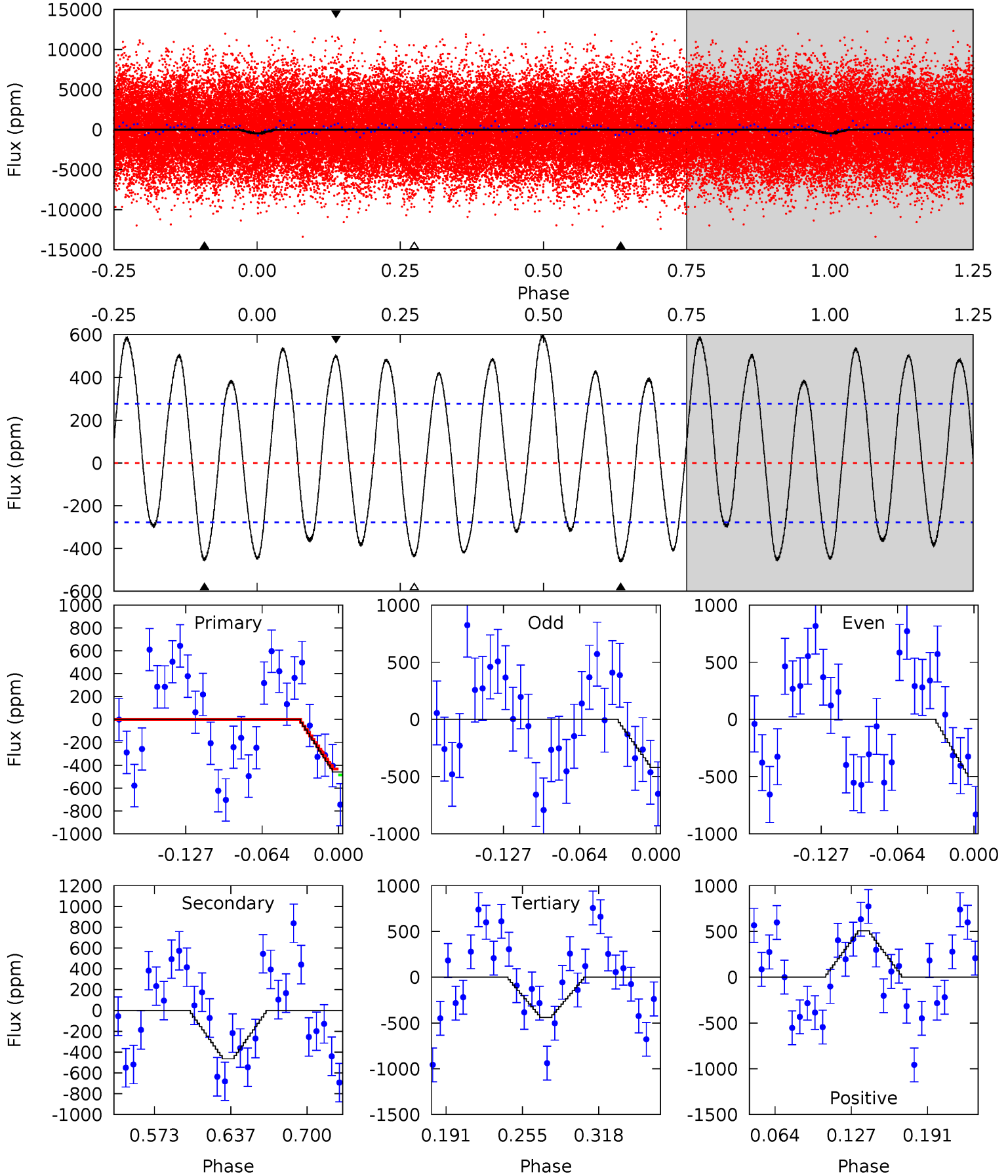
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.8	22.0	19.8	25.3	4.62	1.77	14.6	3.98	-1.52	2.19	-3.31	0.86	0.98	0.53	0.86



Alt Model-Shift Uniqueness Test

010675762-01, P = 0.718483 Days, E = 131.139206 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.71	7.81	7.39	8.48	4.66	1.85	5.26	0.32	-0.77	0.42	-0.67	0.69	1.55	0.56	0.45



Stellar Parameters For KIC 010675762

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7450^{+233}_{-285}	$3.593^{+0.603}_{-0.106}$	$-0.520^{+0.300}_{-0.300}$	$3.498^{+0.362}_{-2.050}$	$1.748^{+0.172}_{-0.549}$	$0.058^{+0.485}_{-0.019}$
	+3%/-4%	+17%/-3%	+58%/-58%	+10%/-59%	+10%/-31%	+844%/-34%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 010675762-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-391 ± 18	$7.02^{+2.27}_{-2.19}$	6114^{+396}_{-886}	6889^{+1193}_{-947}	$1.562^{+1.633}_{-0.662}$
Alt.	-465 ± 60	$7.10^{+2.03}_{-2.35}$	6097^{+422}_{-905}	7291^{+1378}_{-919}	$1.816^{+2.112}_{-0.738}$

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 $A_{obs} \gg 1.0$

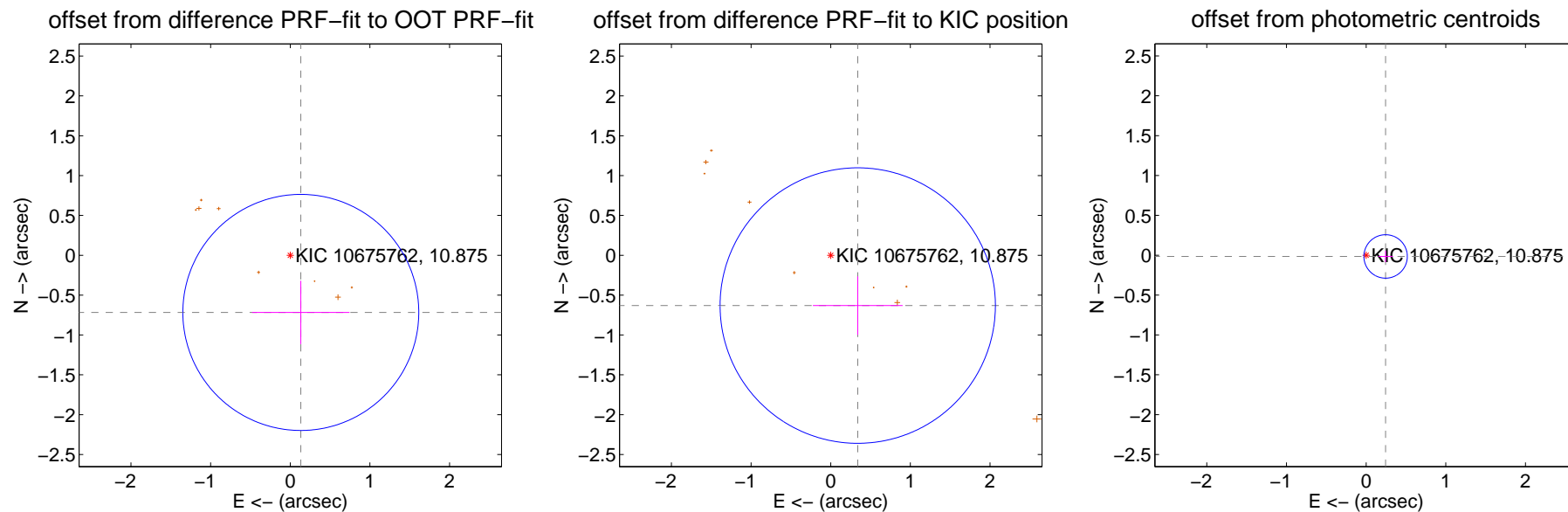
DV Centroid Data

Supplemental centroid analysis for 010675762-01. **Kepler magnitude: 10.88.** Transit SNR 16.17

There are 2 quarters with good PRF difference image offsets

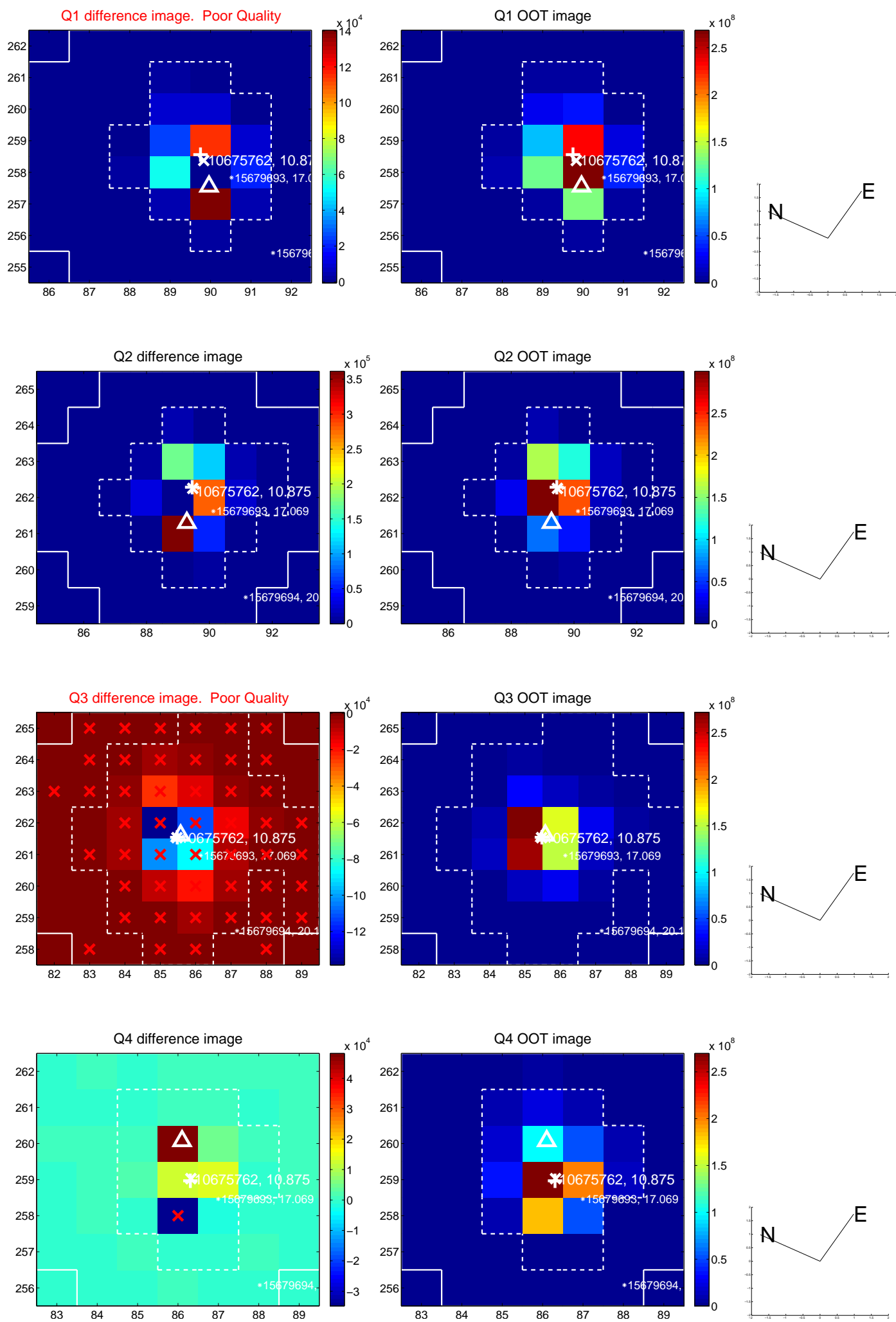
The direct PRF centroid is offset from the target star catalog position by about 0.72 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.729 ± 0.494	1.48	-0.132 ± 0.612	-0.717 ± 0.398
PRF-fit source offset from KIC position	0.716 ± 0.576	1.24	-0.339 ± 0.564	-0.631 ± 0.367
photometric centroid source offset	0.24 ± 0.09	2.70	-0.24 ± 0.09	-0.02 ± 0.07

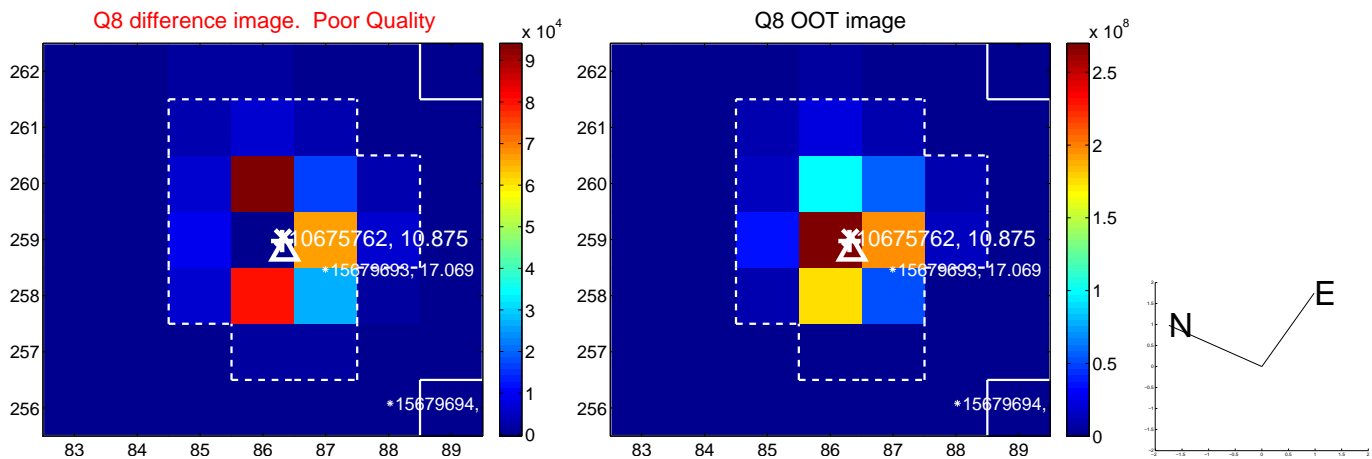
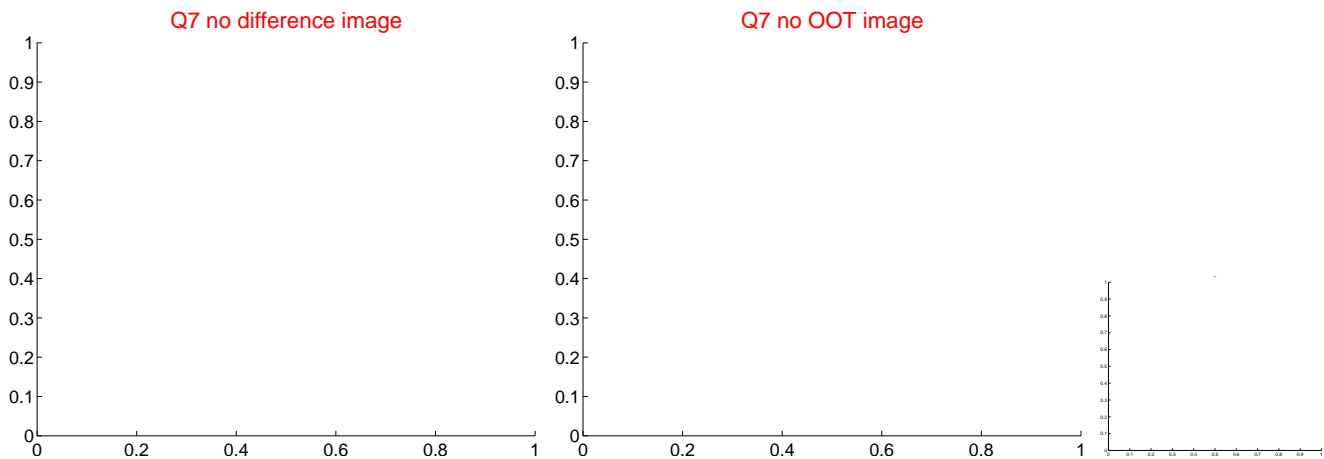
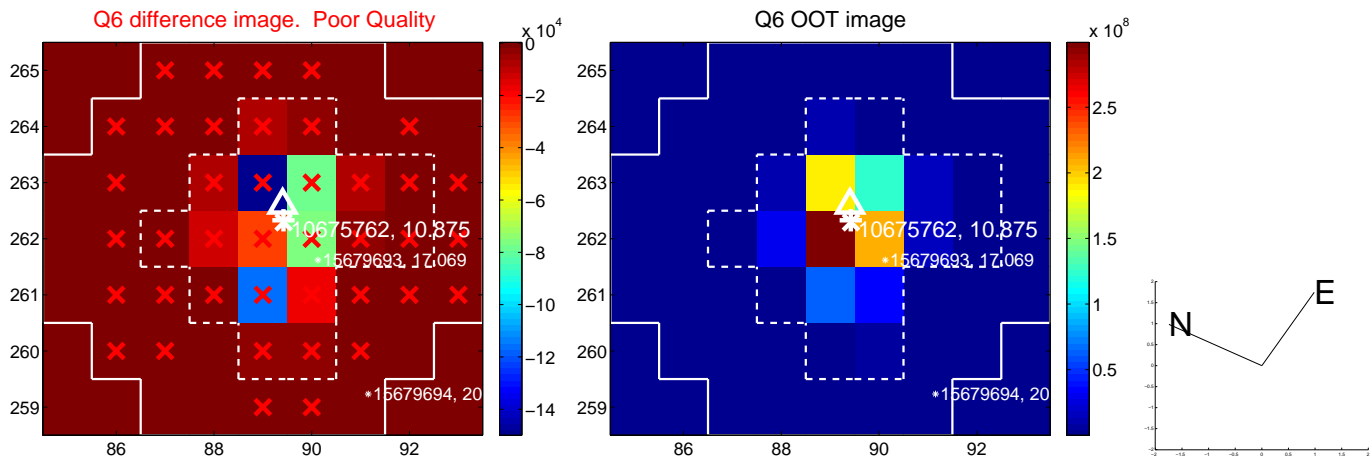
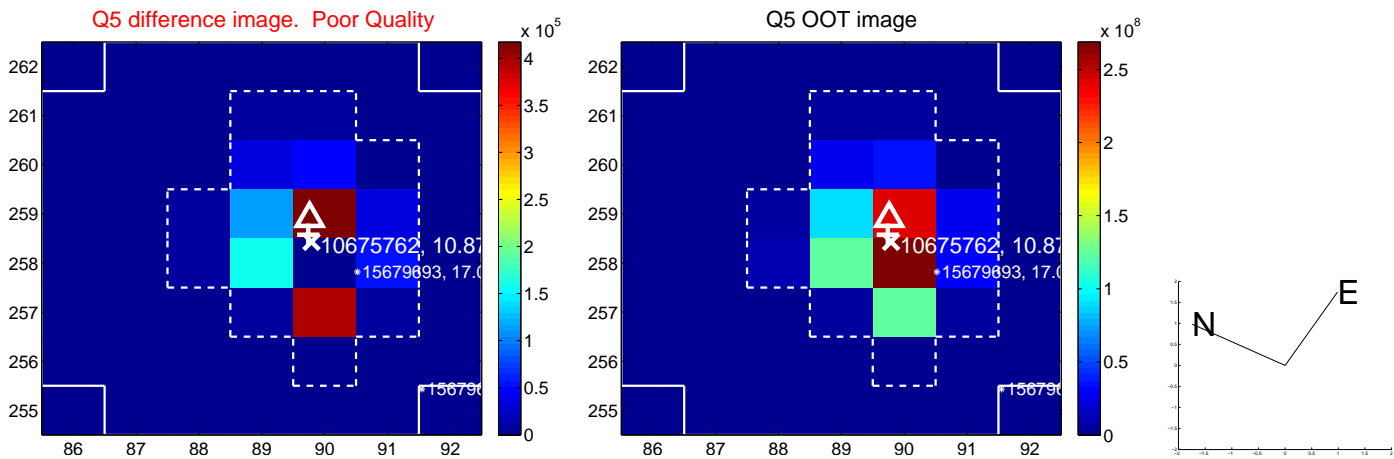


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

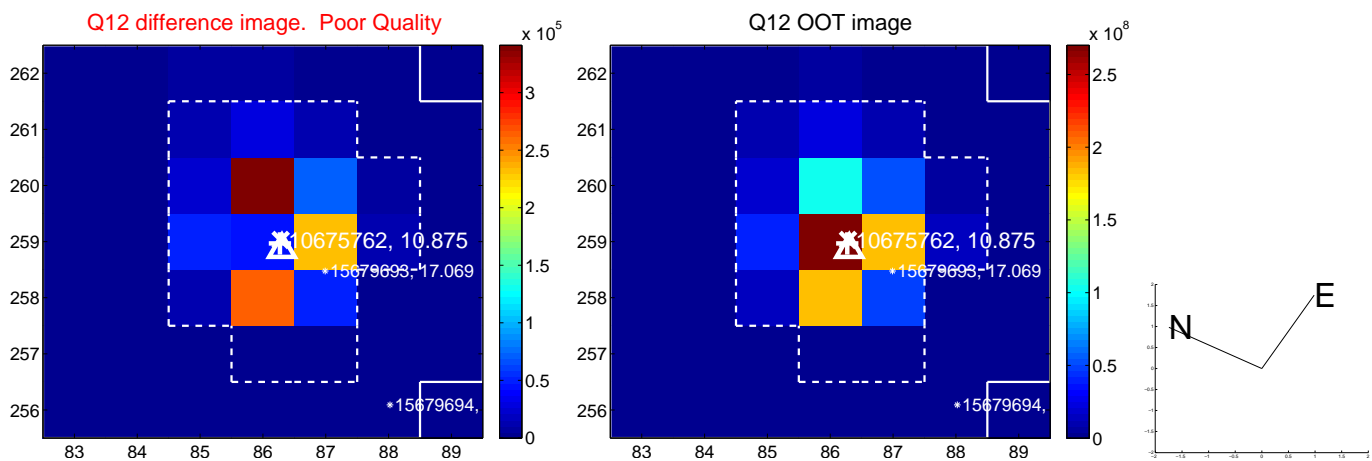
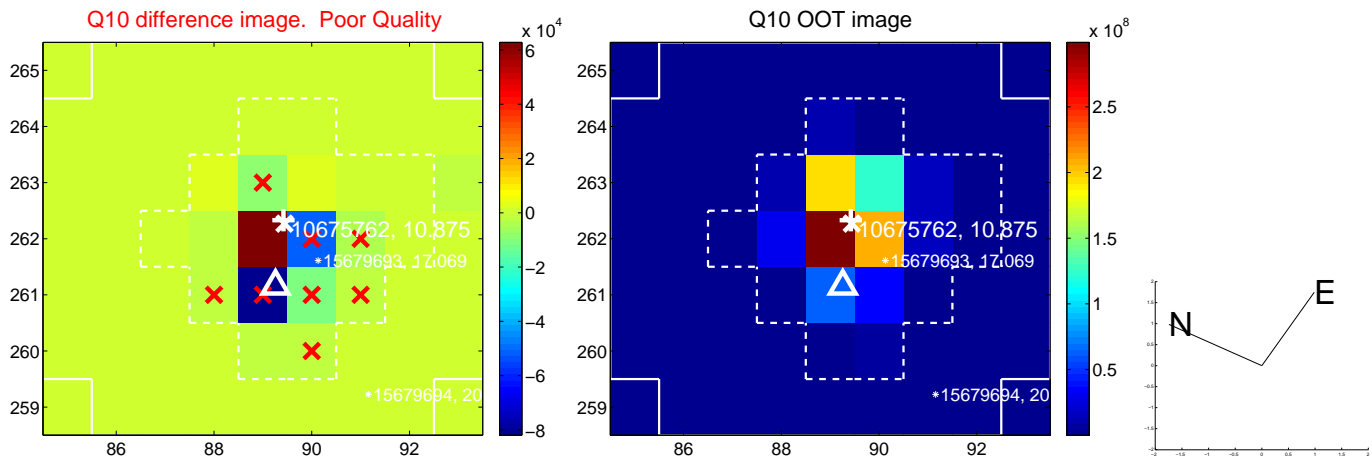
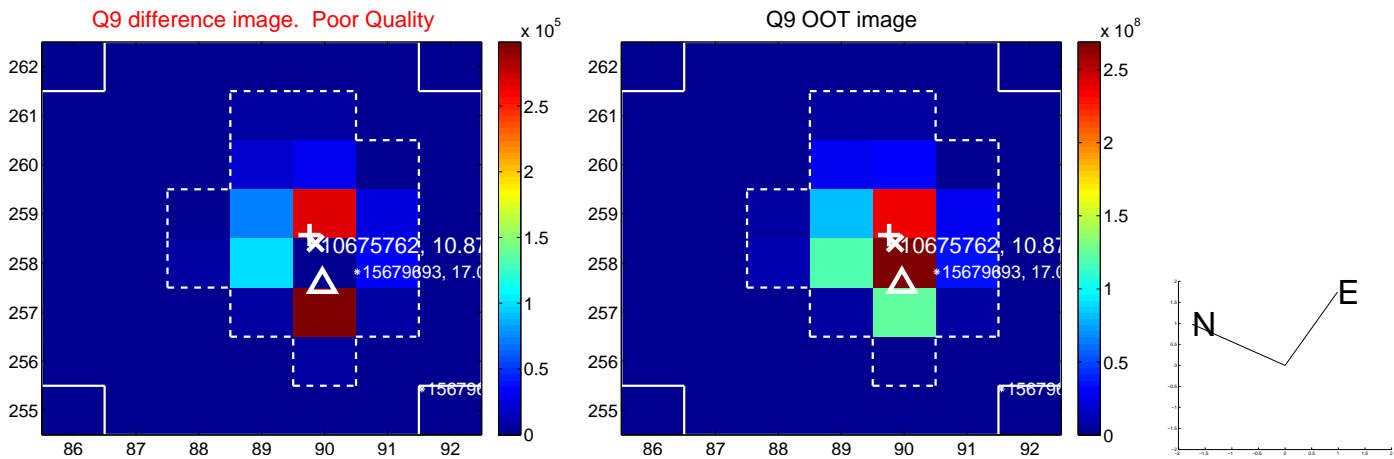
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



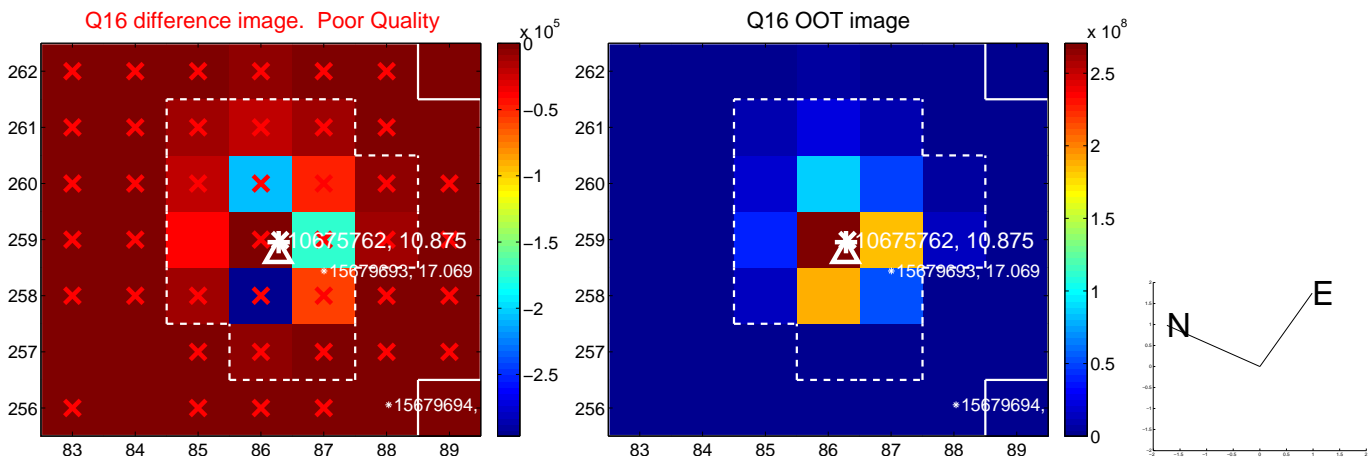
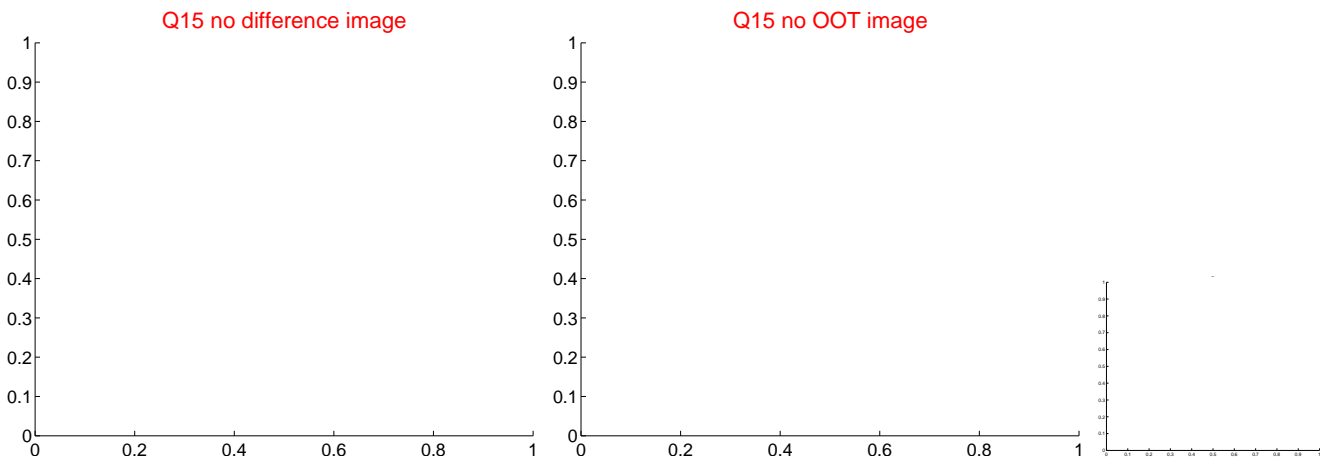
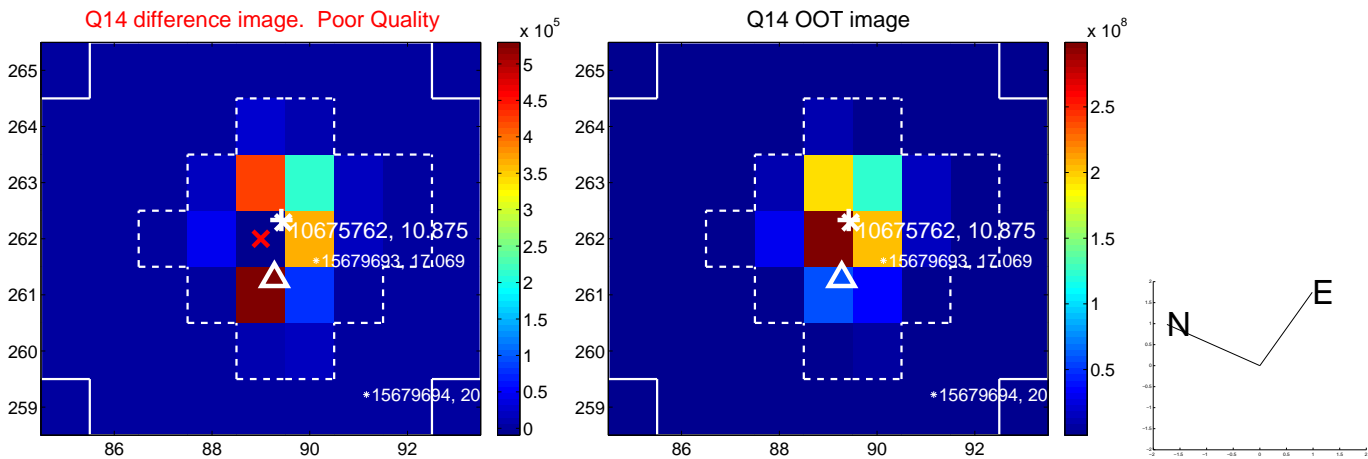
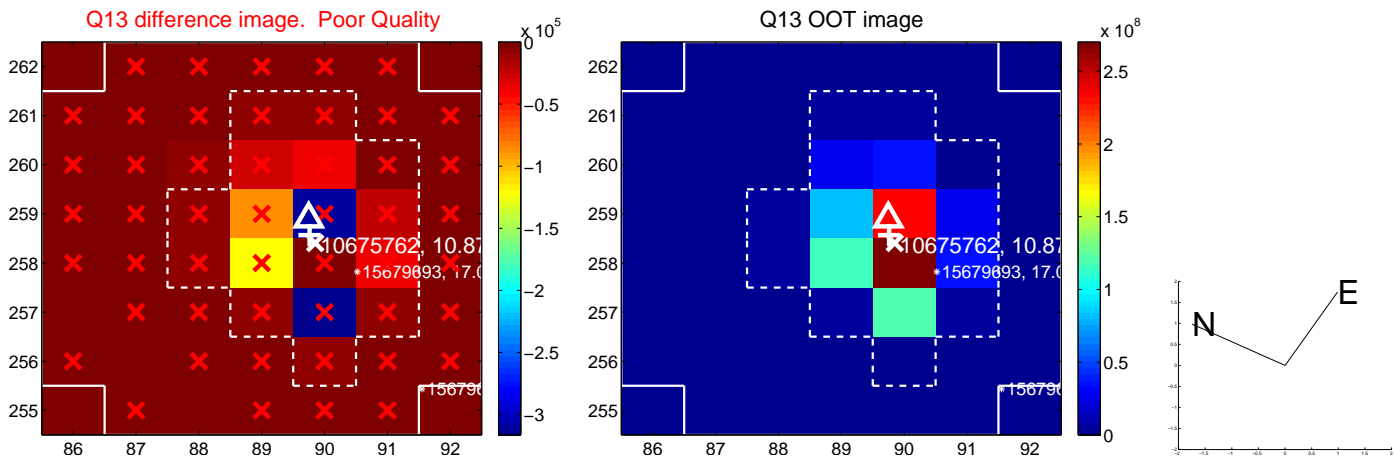
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



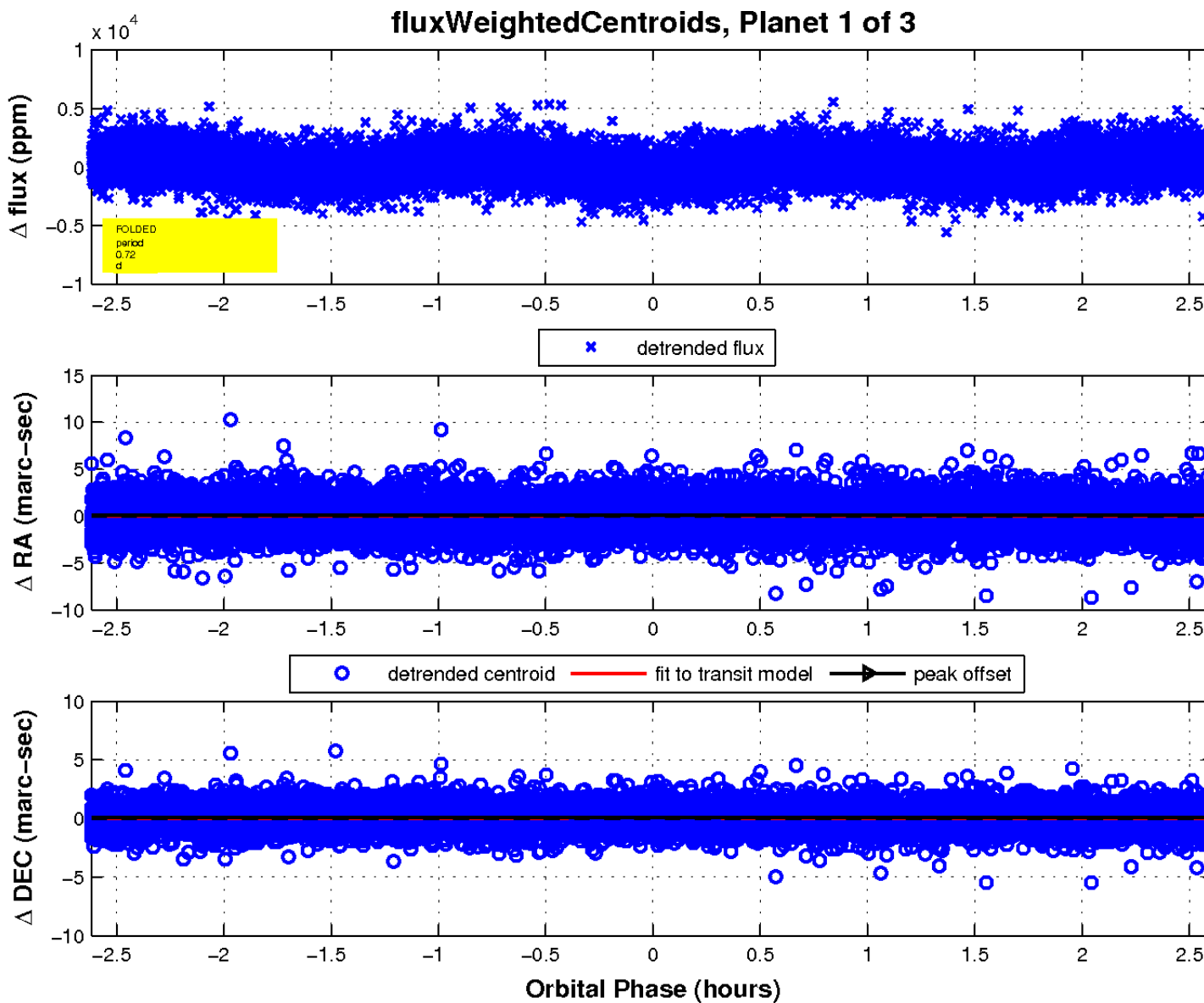
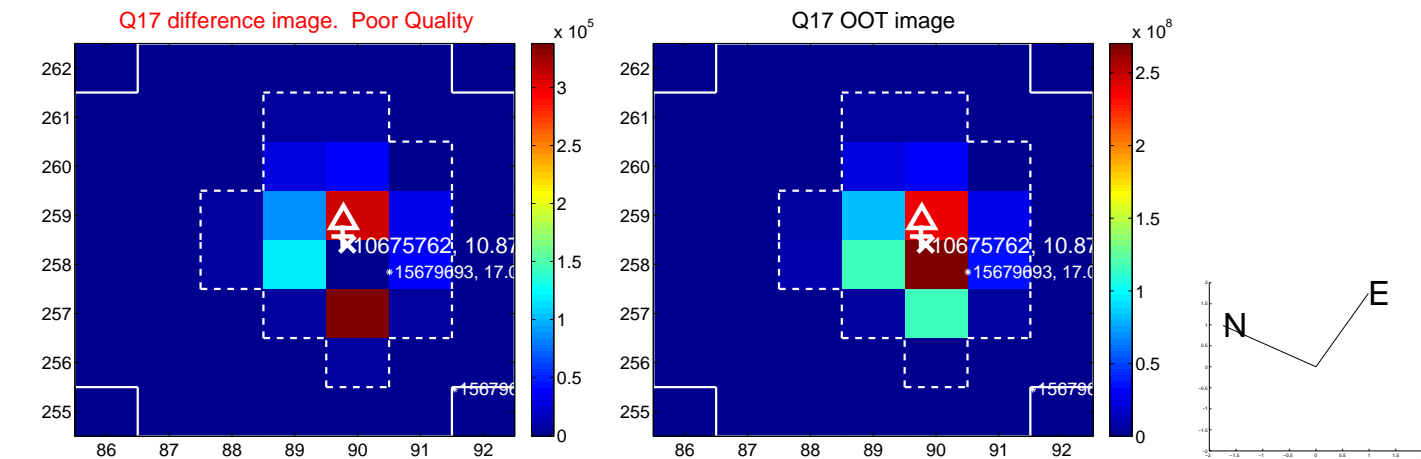
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



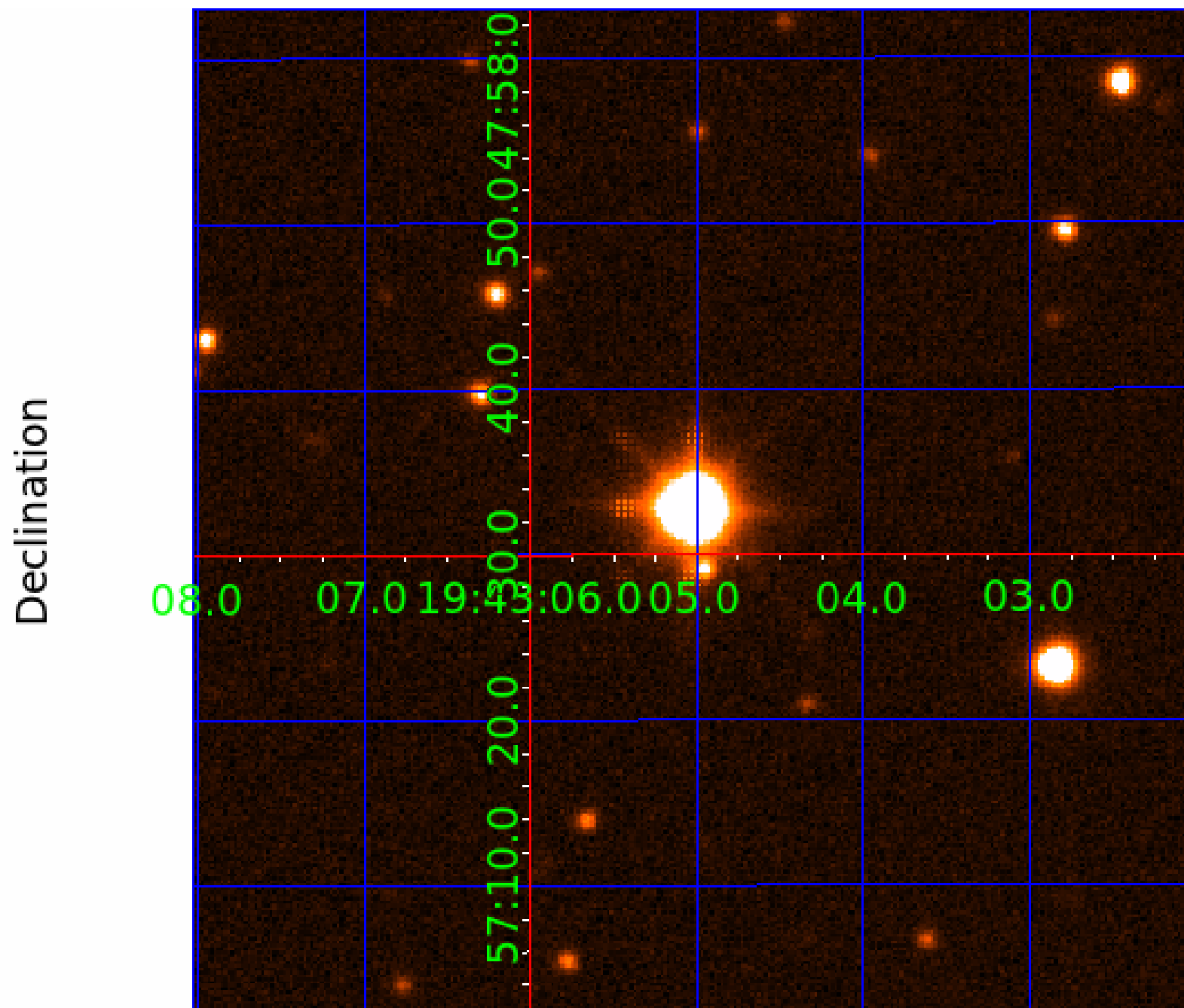
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 010675762

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})
010675762-01	OBS	No	0.718483	131.857685	417.1	0.872	17.3	16.2	3.50	7450	7.74	94372.21
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010675762-03	OBS	No	0.718483	132.118032	435.1	0.500	11.2	13.0	3.50	7450	7.72	94372.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010675762-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
010675762-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010675762-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED

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

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

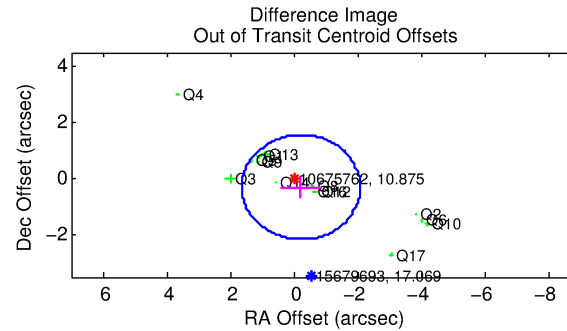
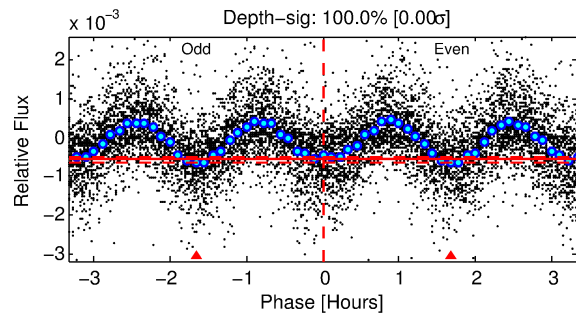
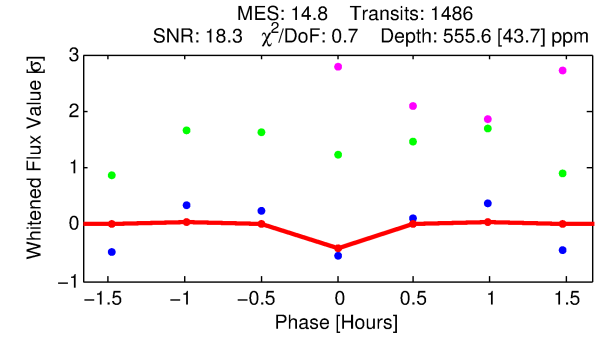
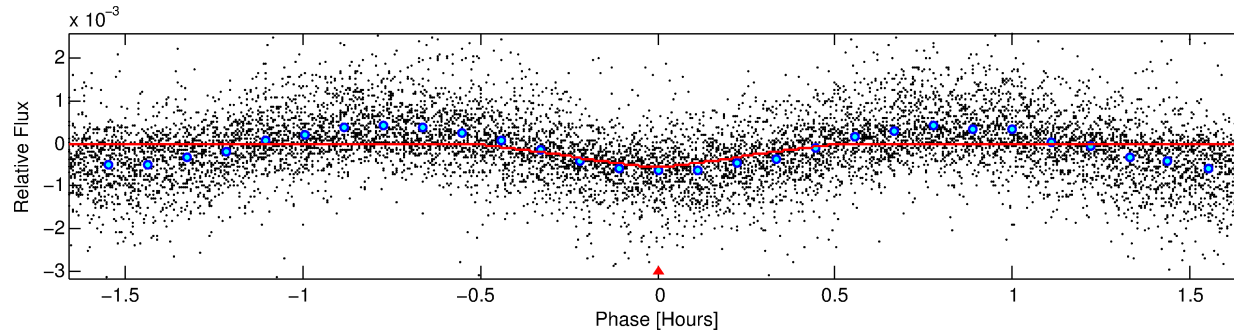
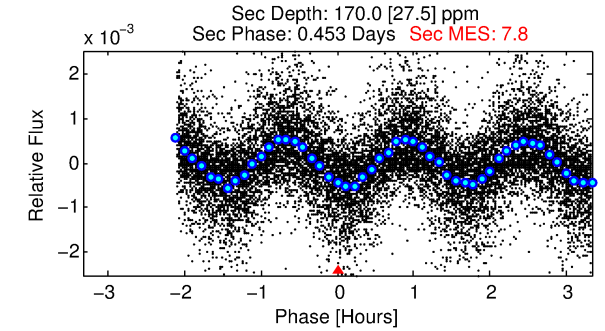
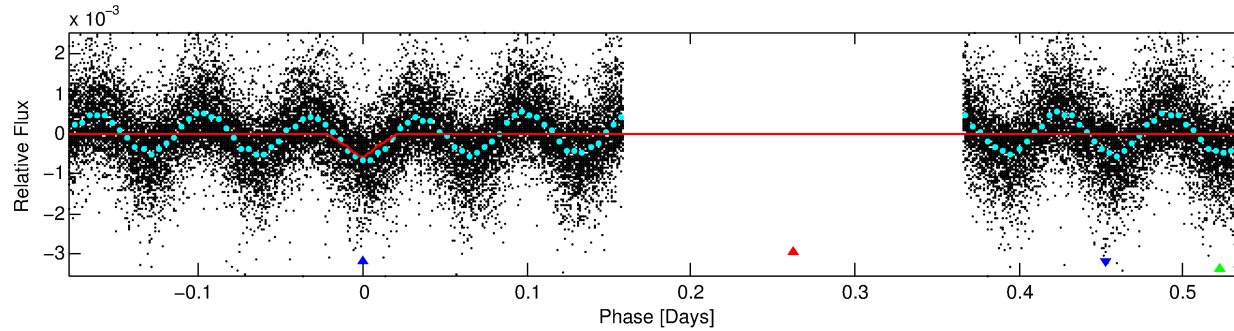
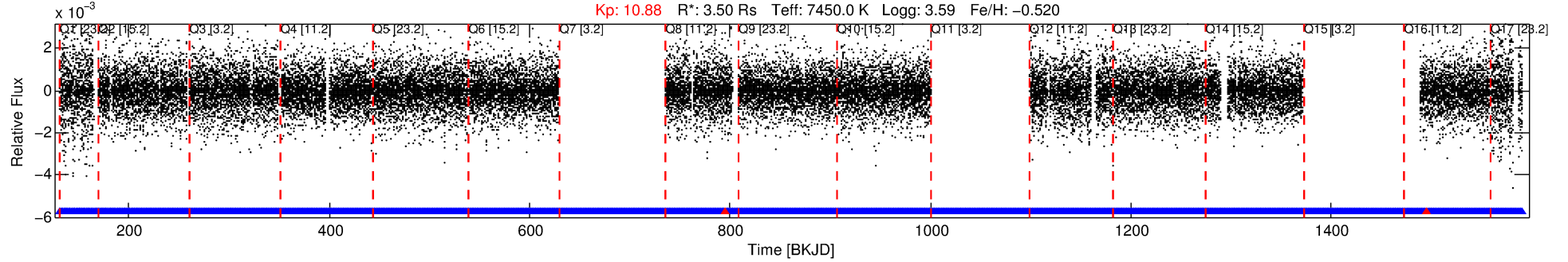
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010675762-02

No Significant Match Found

DV One-Page Summary

KIC: 10675762 Candidate: 2 of 3 Period: 0.718 d



DV Fit Results:

Period = 0.71848 [0.00001] d
Epoch = 131.5953 [0.0005] BKJD
 $R_p/R^* = 0.0226$ [0.0093]
 $a/R^* = 10.10$ [23.40]
 $b = 0.10$ [23.31]
 $\text{Seff} = 94372.19$ [95910.62]
 $T_{\text{eq}} = 4469$ [1136] K
 $R_p = 8.61$ [6.18] R_e
 $a = 0.0189$ [0.0115] AU
 $\text{Ag} = 0.45$ [0.59] $[-0.93\sigma]$
 $T_{\text{eff}} = 5663$ [1211] K [0.72σ]

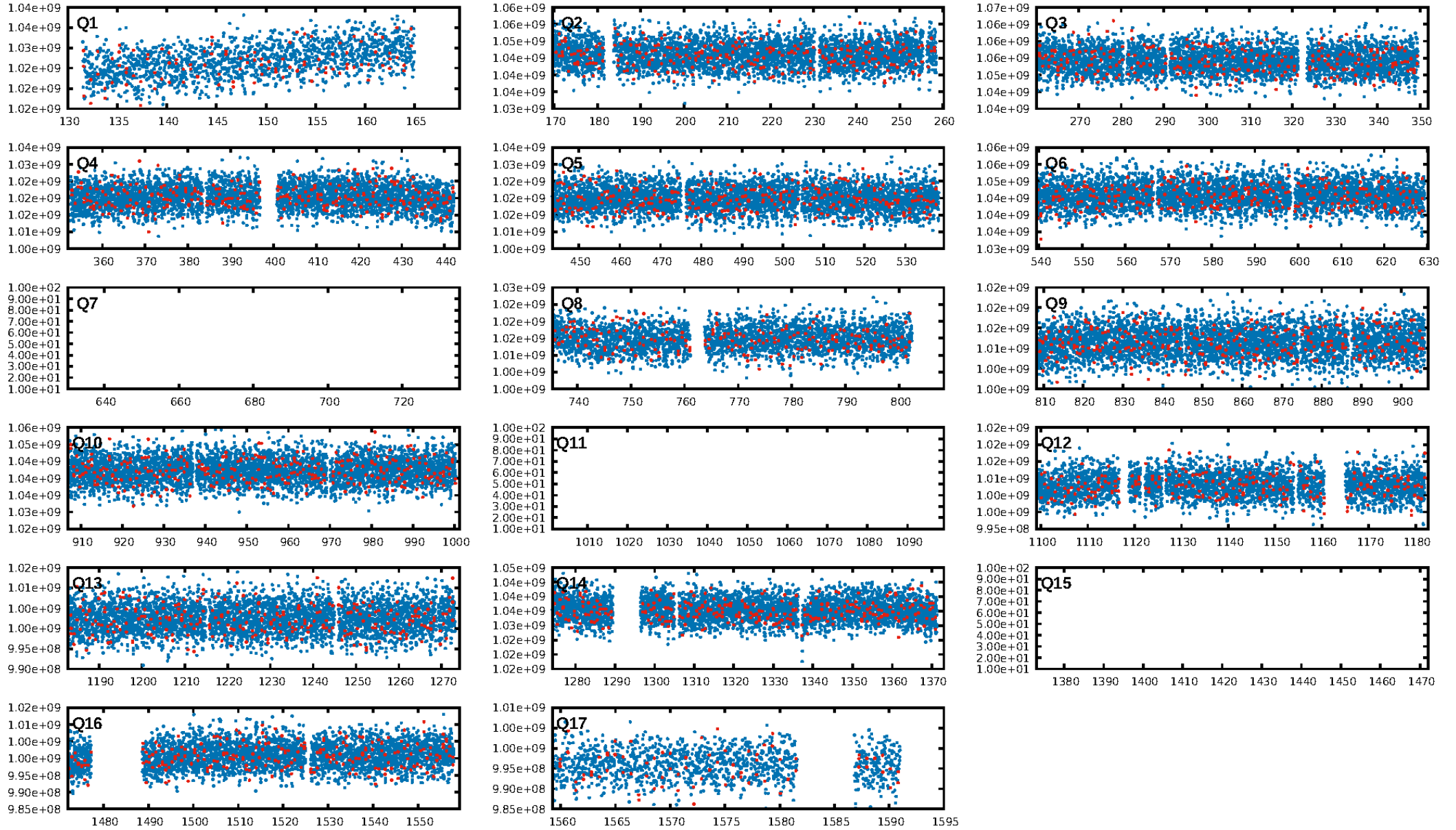
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 9.36e-45
RollingBand-fgt: 1.00 [1399/1401]
GhostDiagnostic-chr: 2.698
Centroid-sig: 0.1%
Centroid-so: 0.192 arcsec [2.35σ]
OotOffset-rm: 0.381 arcsec [0.61σ]
KicOffset-rm: 0.348 arcsec [0.47σ]
OotOffset-st: 4/1/4/5 [14]
KicOffset-st: 4/1/4/5 [14]
DiffImageQuality-fgm: 0.36 [5/14]
DiffImageOverlap-fno: 0.00 [0/14]

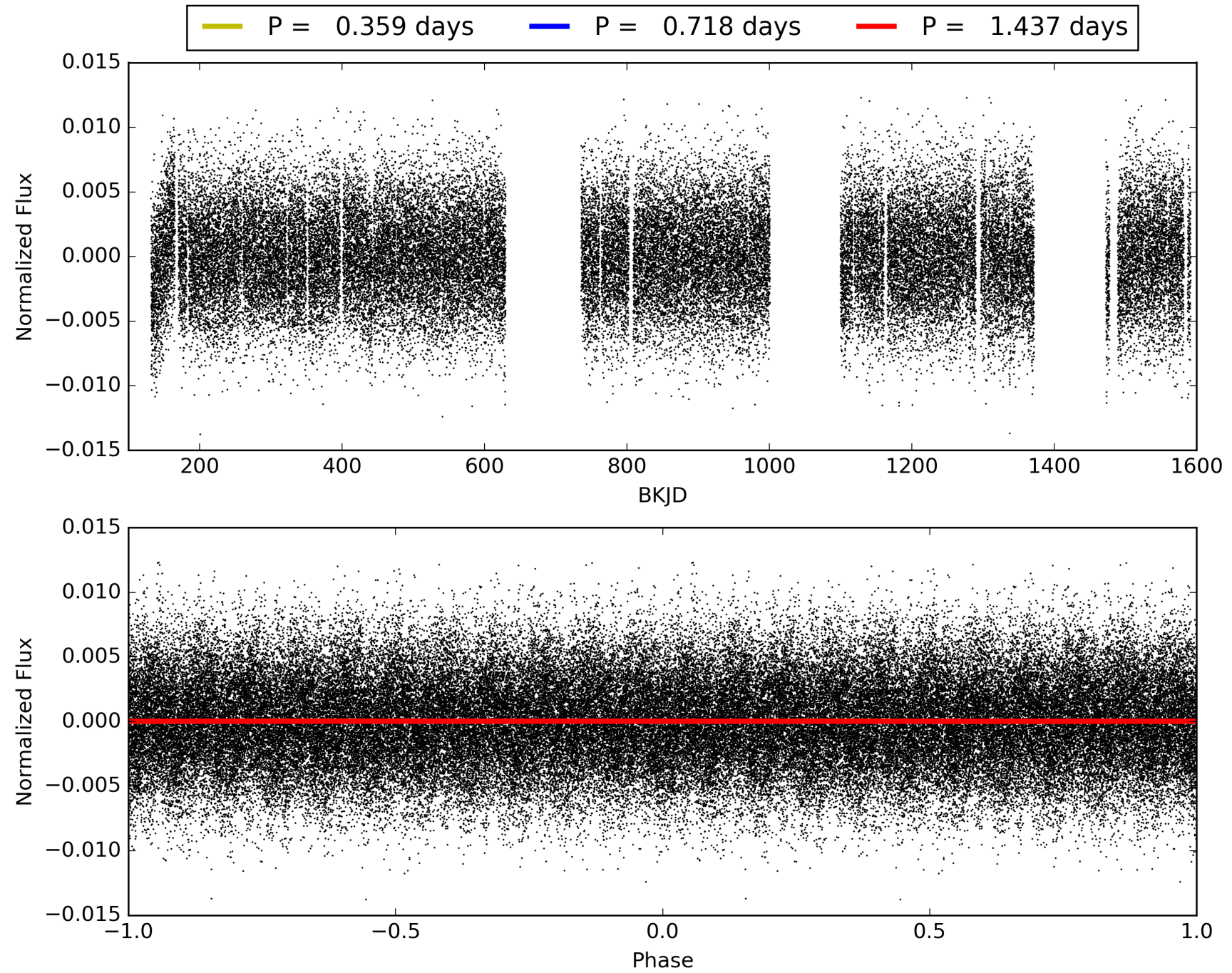
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 20:06:13 Z

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

TCE 010675762-02, PDC Light Curves

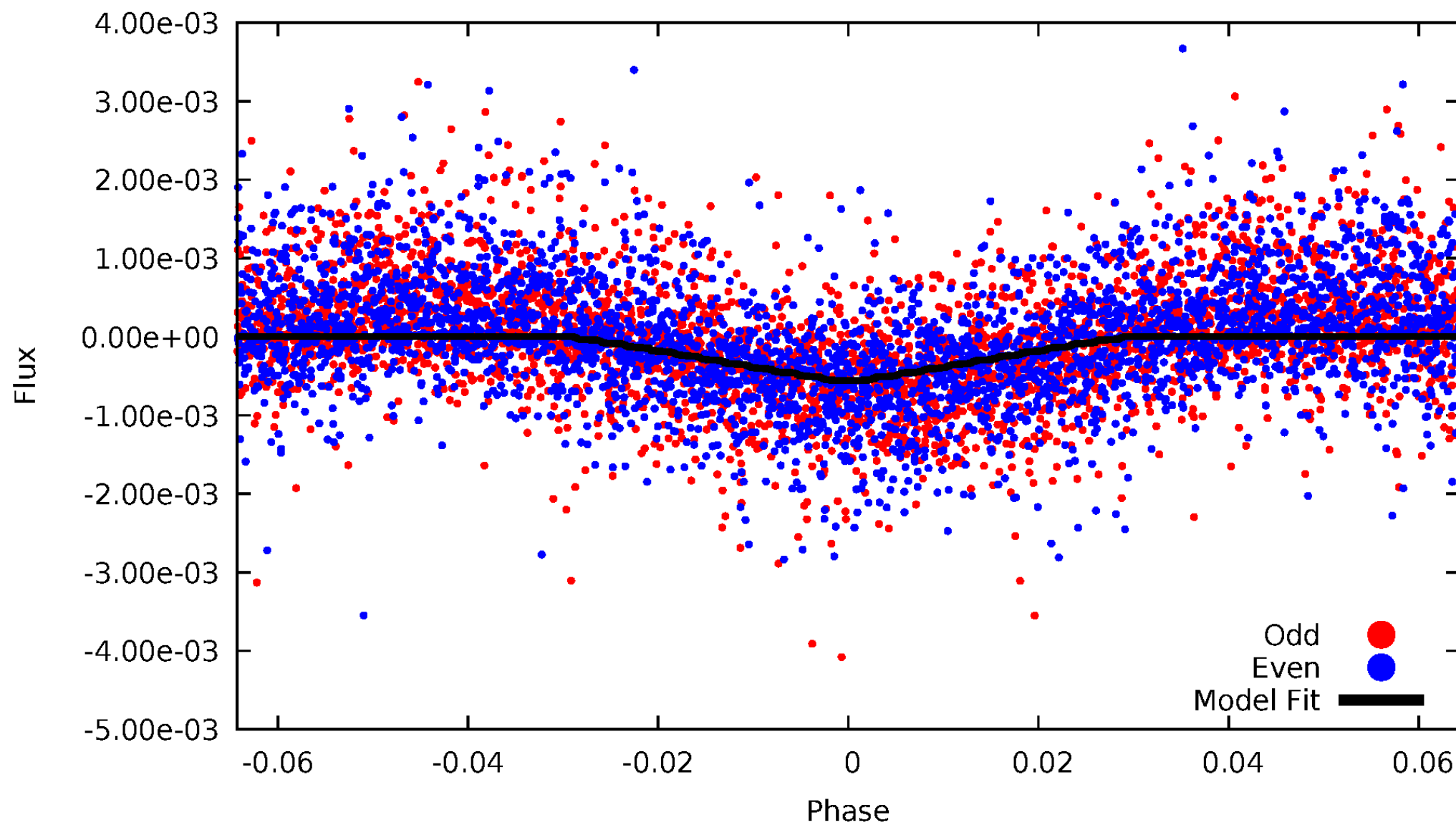


TCE 010675762-02



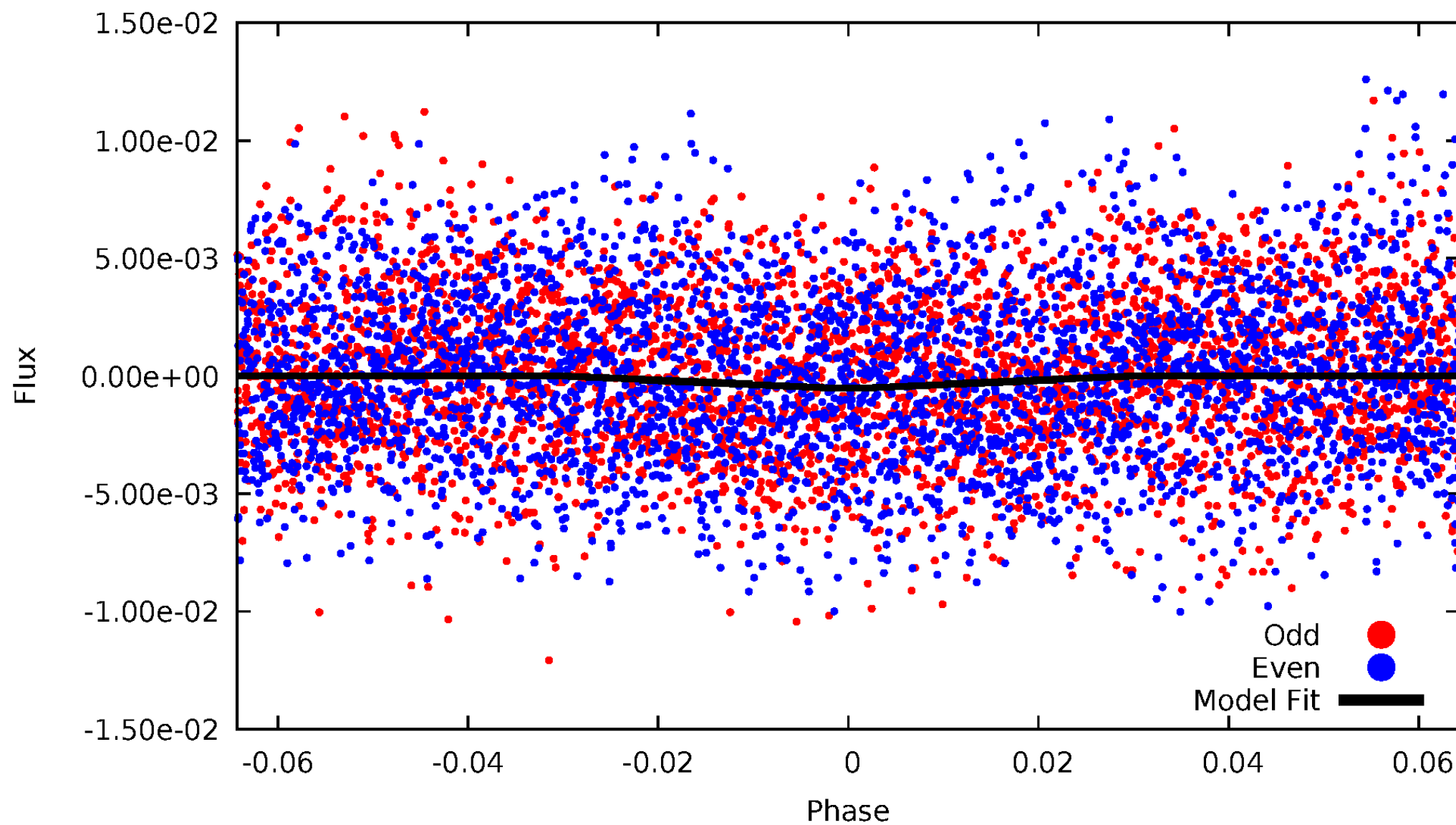
DV Odd/Even

TCE 010675762-02



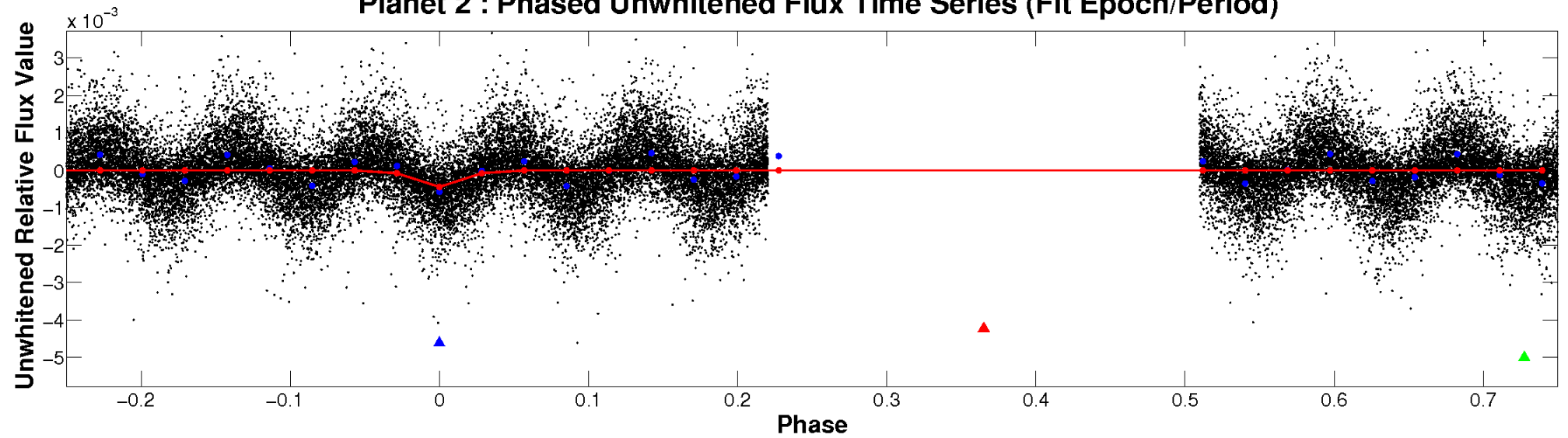
ALT Odd/Even

TCE 010675762-02

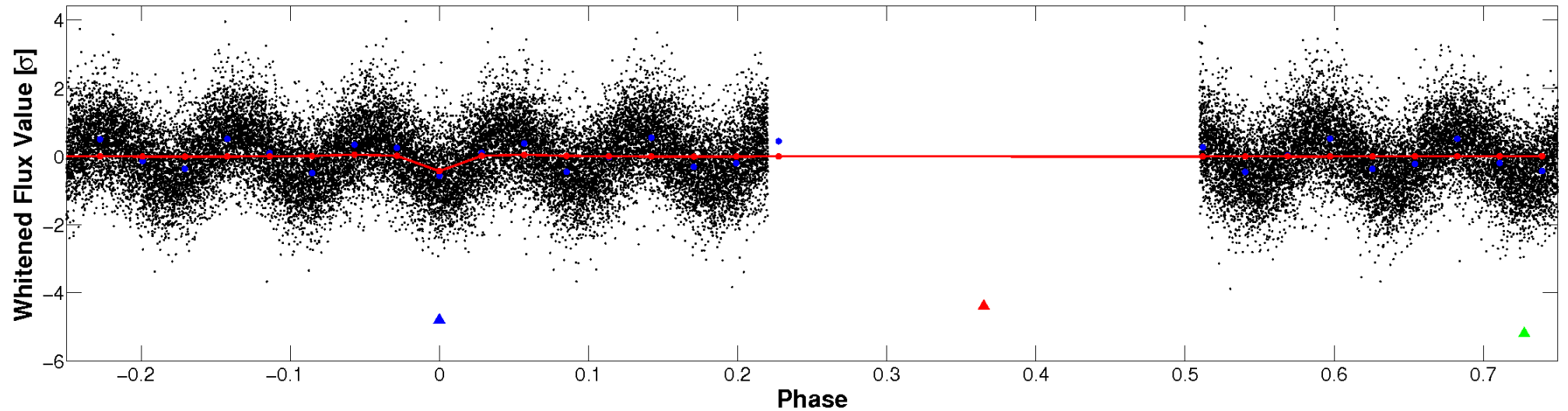


Non-Whitened Vs. Whitened Light Curve

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

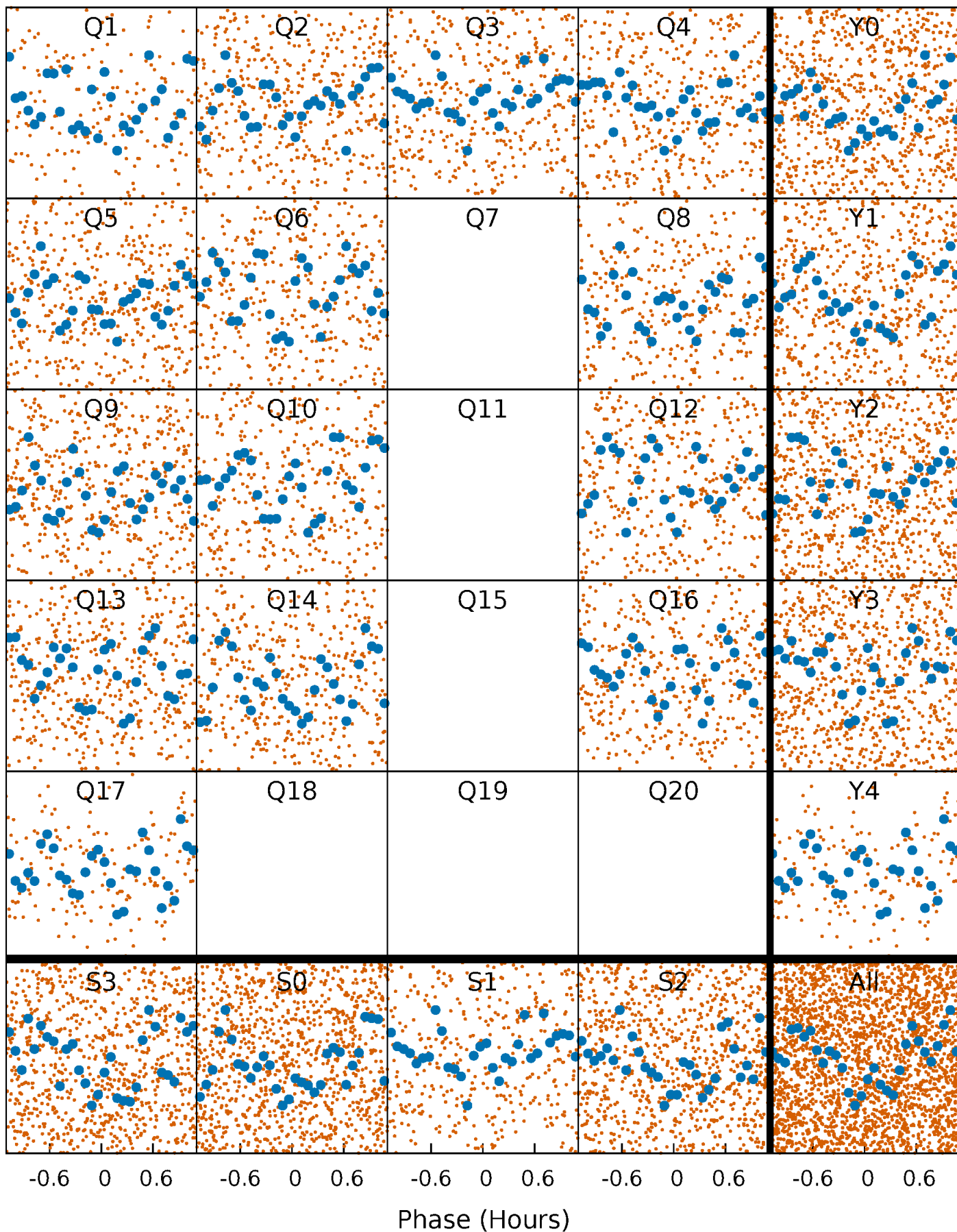


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



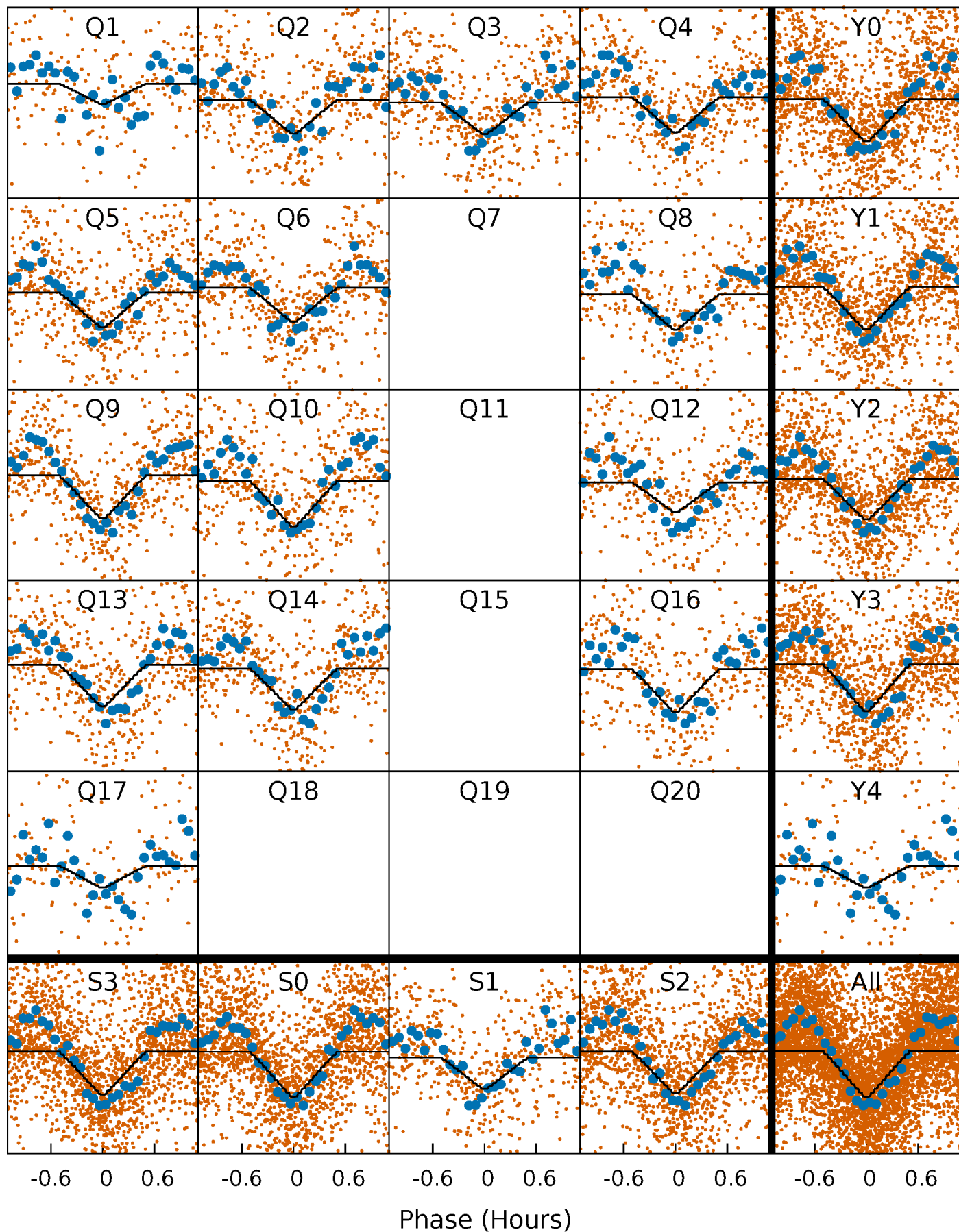
PDC Quarter-Phased Transit Curves

TCE 010675762-02 P= 0.718483 Days $T_0=131.595308$ (BKJD)



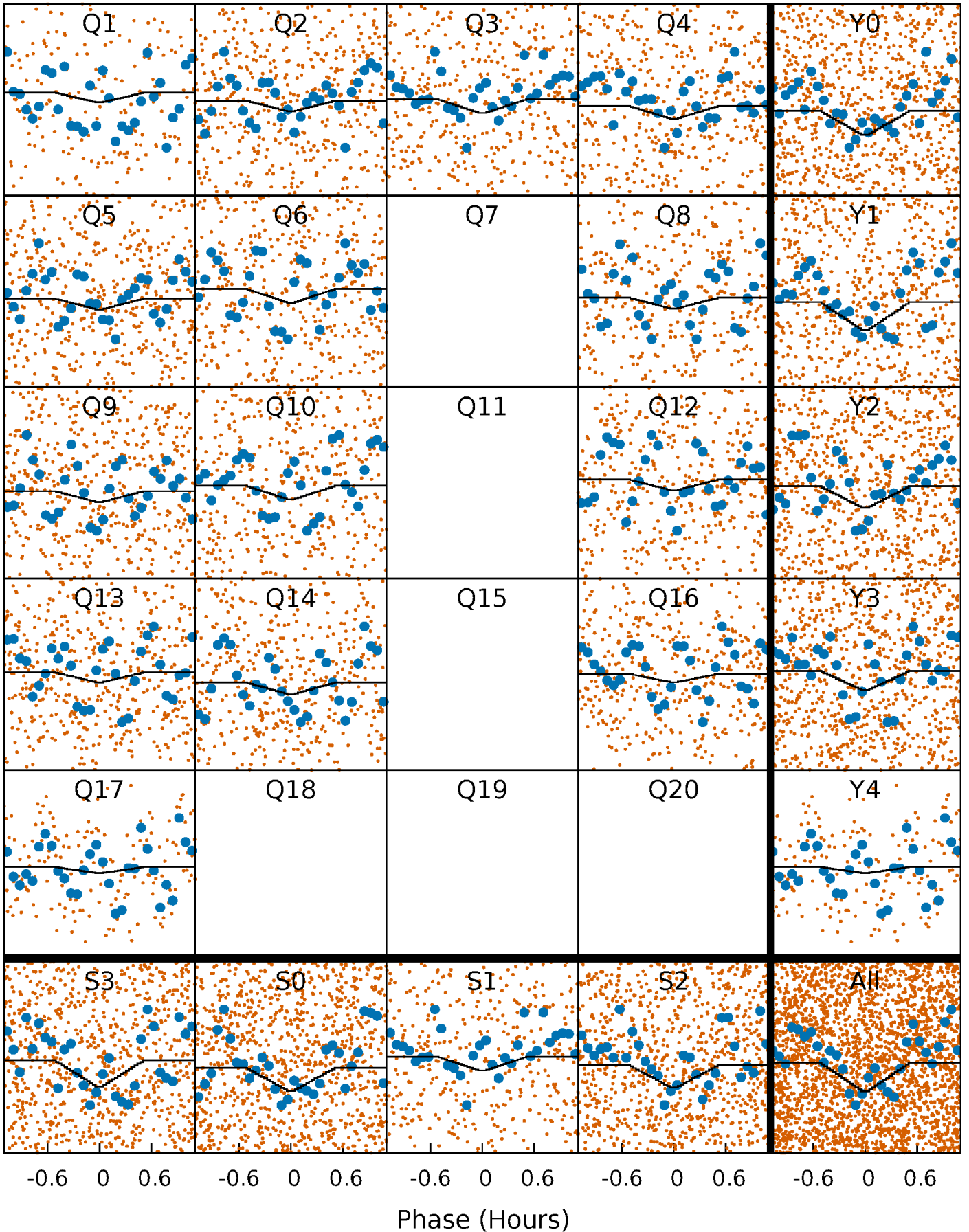
DV Quarter-Phased Transit Curves

TCE 010675762-02 P= 0.718483 Days $T_0=131.595308$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

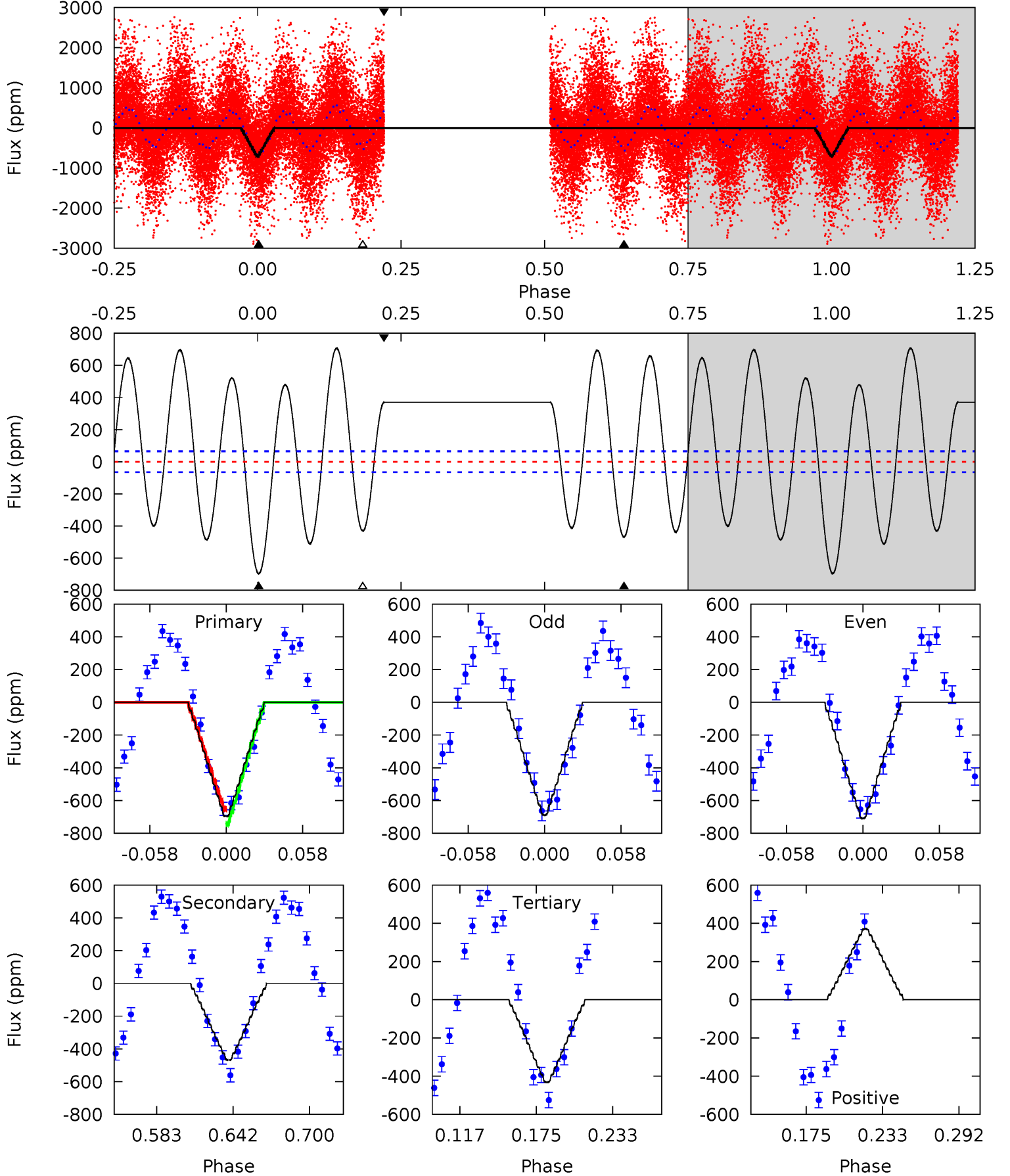
TCE 010675762-02 P= 0.718483 Days $T_0=131.595308$ (BKJD)



DV Model-Shift Uniqueness Test

010675762-02, P = 0.718483 Days, E = 130.876825 Days

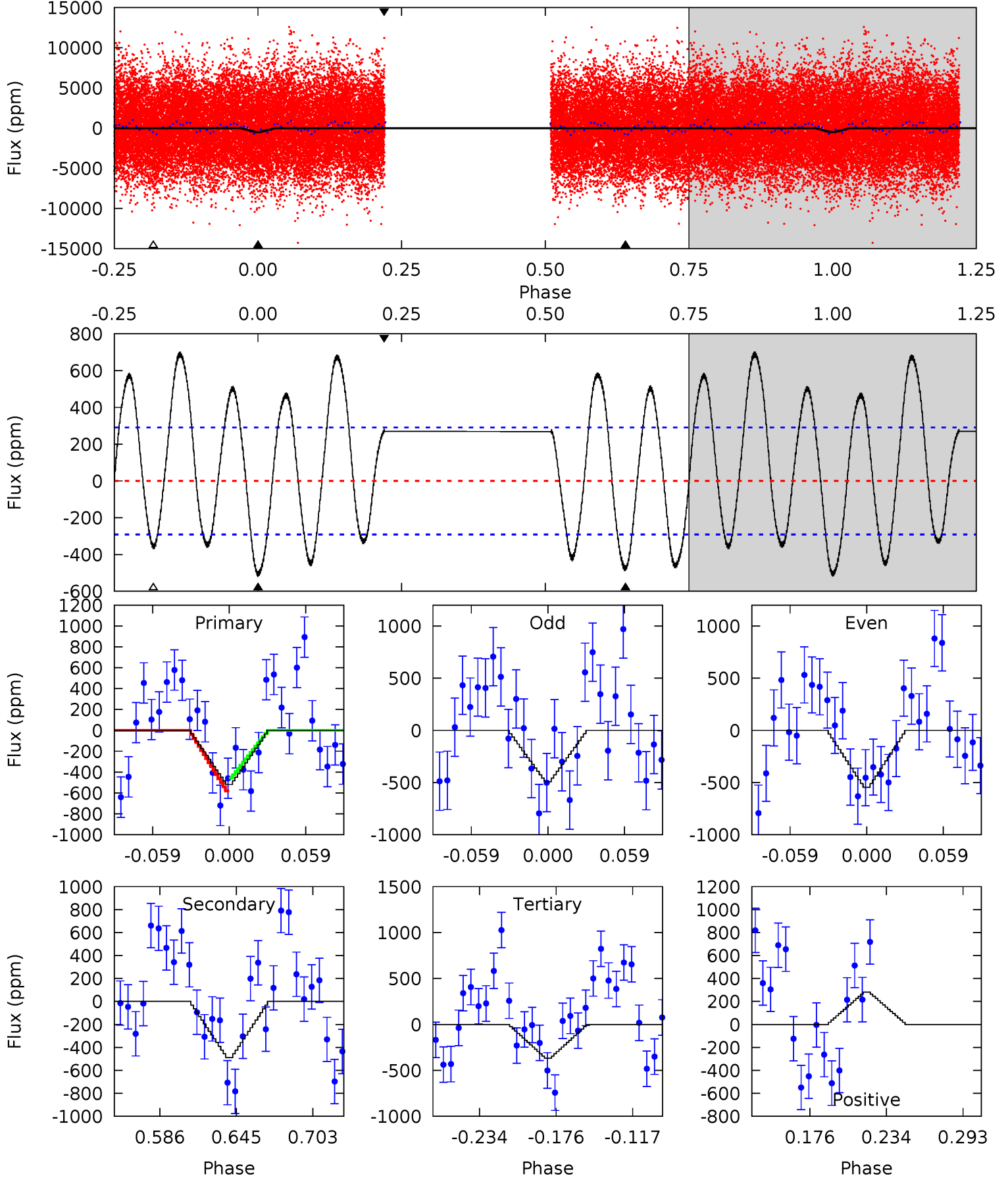
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
50.1	33.6	31.0	26.6	4.68	1.89	26.5	19.1	23.4	2.67	7.01	0.74	1.12	0.50	3.28



Alt Model-Shift Uniqueness Test

010675762-02, P = 0.718483 Days, E = 130.876825 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.33	7.84	5.91	4.53	4.68	1.89	5.43	2.42	3.80	1.93	3.31	0.44	1.39	0.58	0.98



Stellar Parameters For KIC 010675762

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7450^{+233}_{-285}	$3.593^{+0.603}_{-0.106}$	$-0.520^{+0.300}_{-0.300}$	$3.498^{+0.362}_{-2.050}$	$1.748^{+0.172}_{-0.549}$	$0.058^{+0.485}_{-0.019}$
	+3%/-4%	+17%/-3%	+58%/-58%	+10%/-59%	+10%/-31%	+844%/-34%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 010675762-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-469 ± 14	$7.75^{+3.71}_{-3.60}$	6100^{+403}_{-865}	6790^{+2951}_{-1495}	$1.514^{+3.507}_{-0.807}$
Alt.	-488 ± 62	$7.52^{+4.18}_{-3.55}$	6113^{+412}_{-919}	6900^{+3387}_{-1569}	$1.643^{+4.170}_{-0.949}$

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 $A_{obs} \gg 1.0$

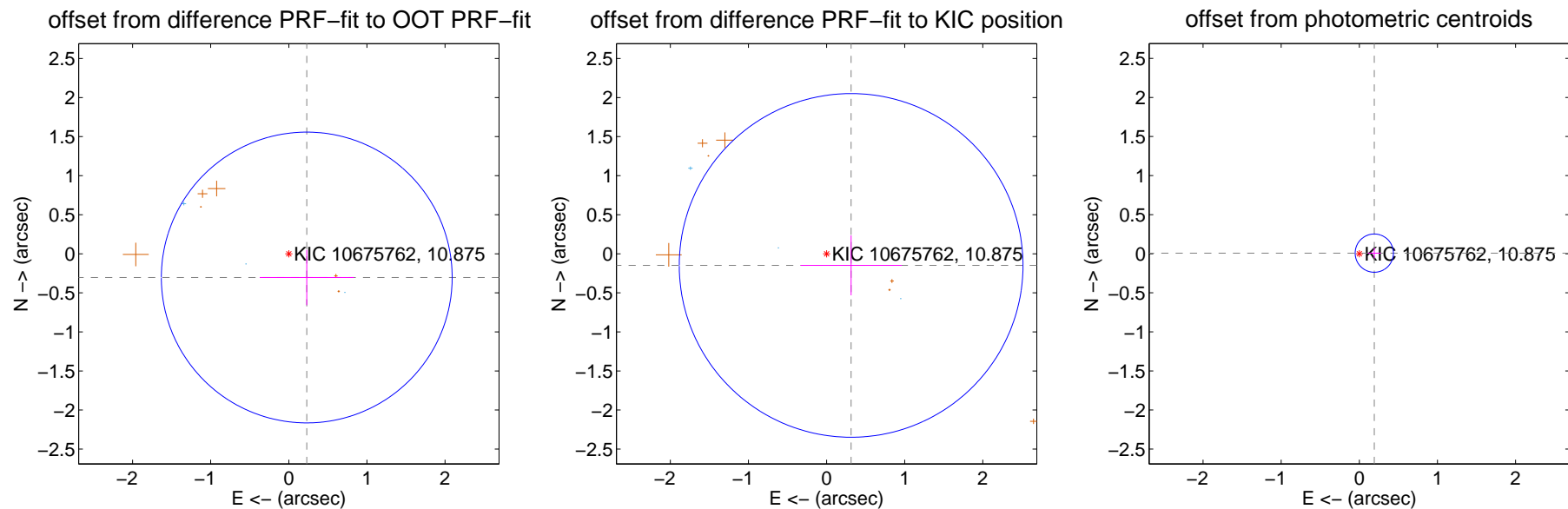
DV Centroid Data

Supplemental centroid analysis for 010675762-02. **Kepler magnitude: 10.88.** Transit SNR 18.26

There are 5 quarters with good PRF difference image offsets

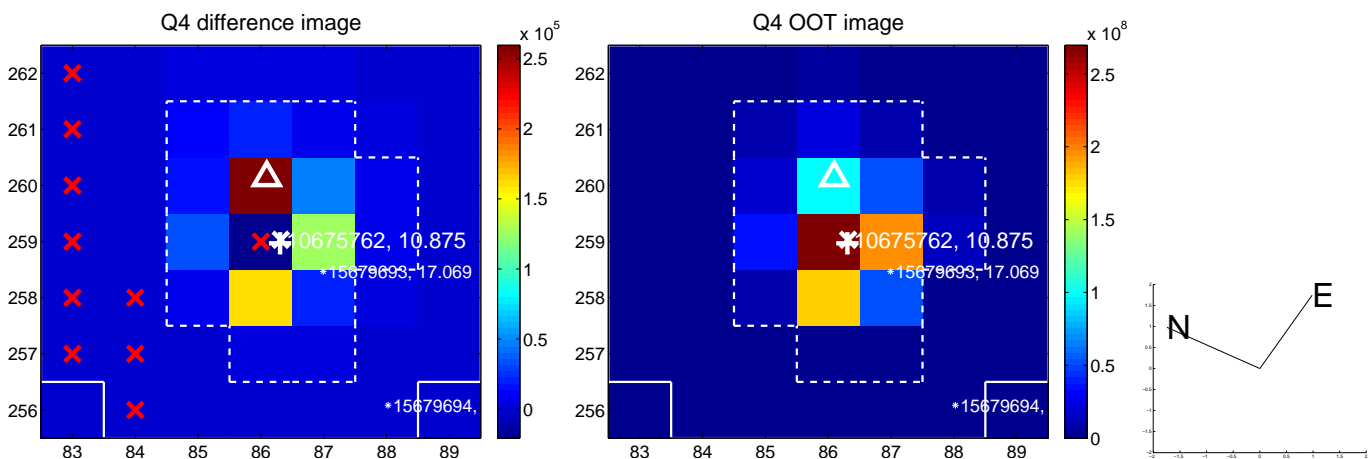
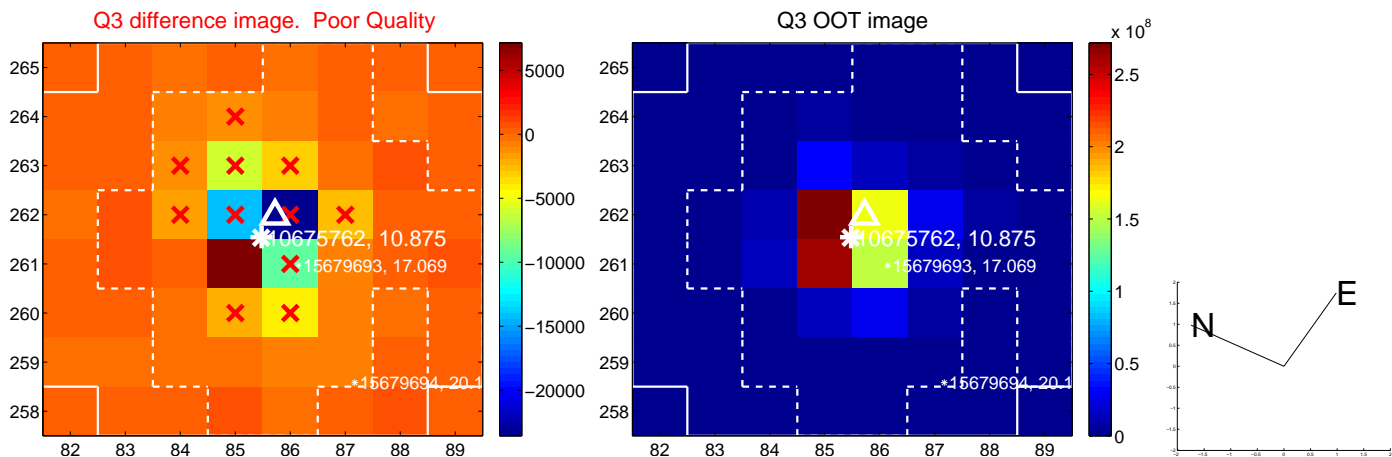
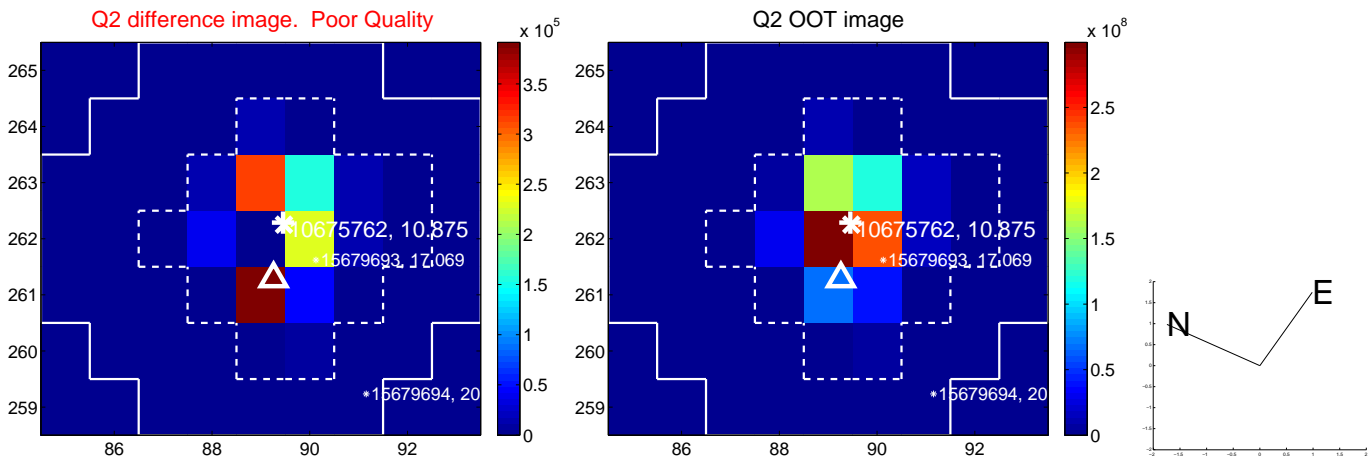
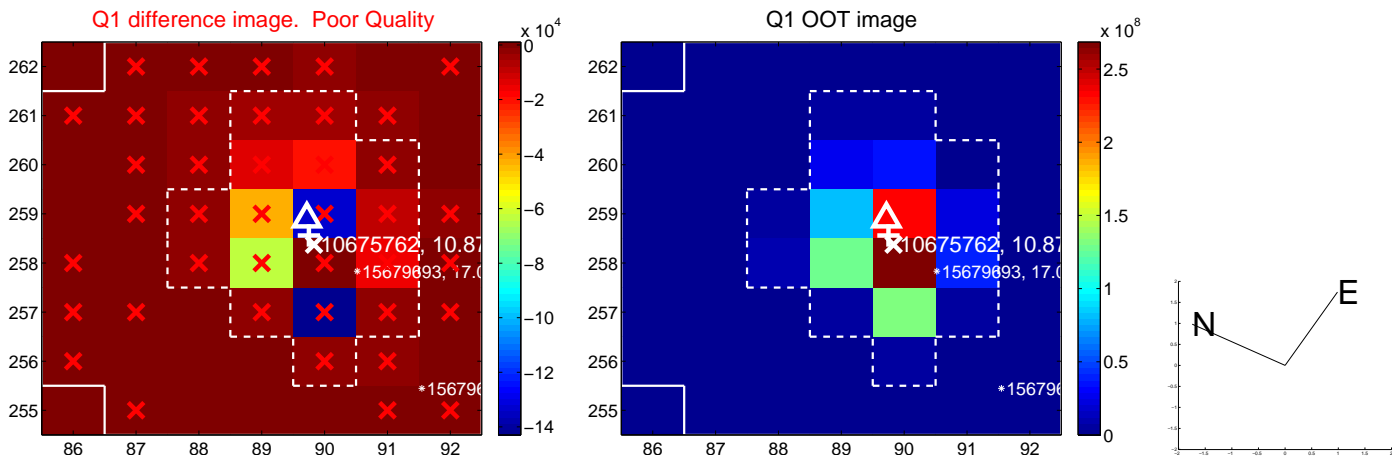
The direct PRF centroid is offset from the target star catalog position by about 0.71 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.381 ± 0.620	0.61	-0.230 ± 0.602	-0.304 ± 0.354
PRF-fit source offset from KIC position	0.348 ± 0.733	0.47	-0.314 ± 0.648	-0.149 ± 0.383
photometric centroid source offset	0.19 ± 0.08	2.35	-0.19 ± 0.08	0.01 ± 0.06

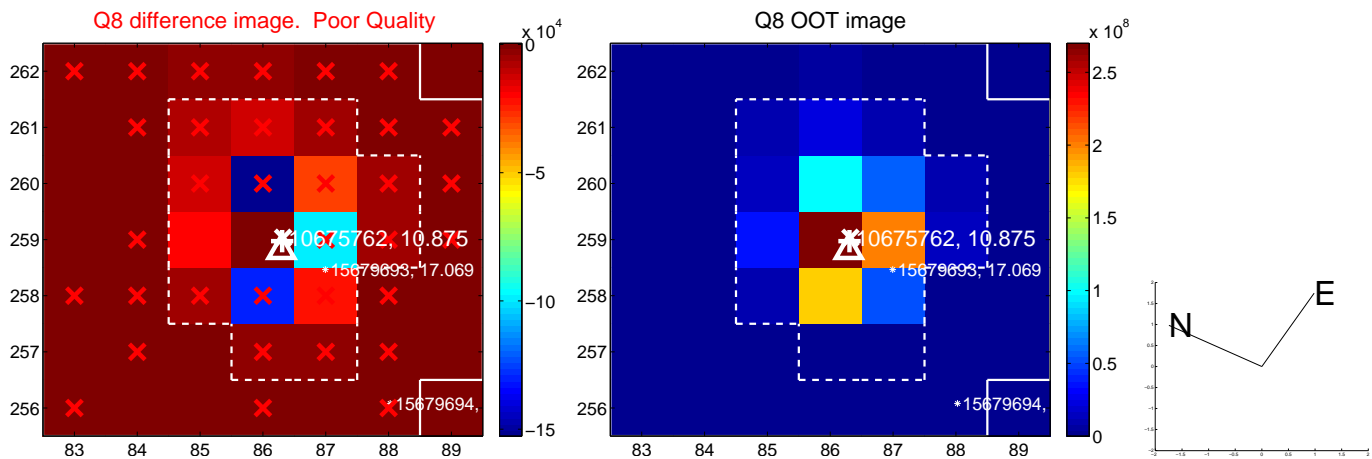
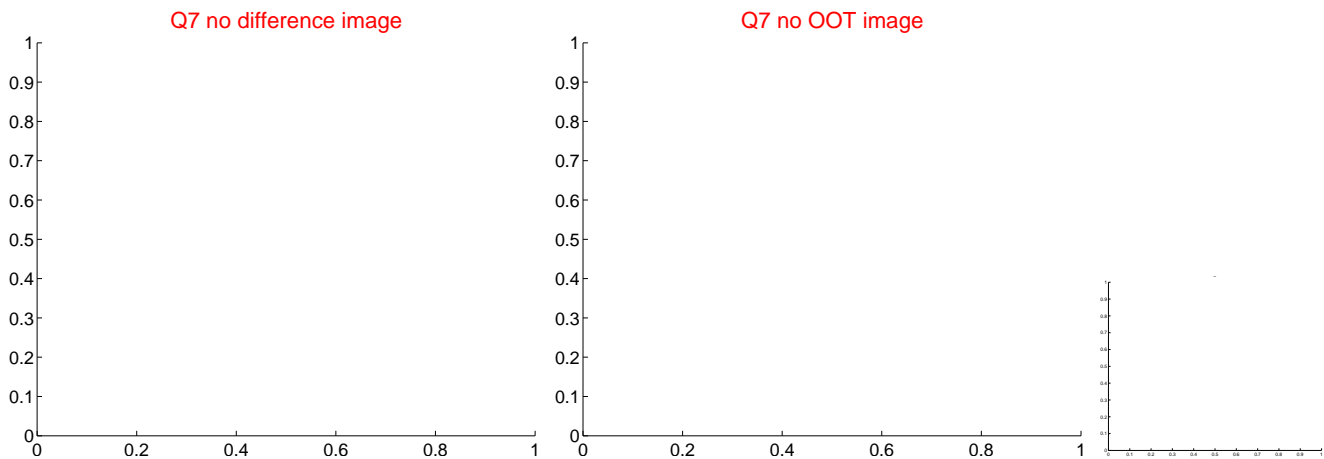
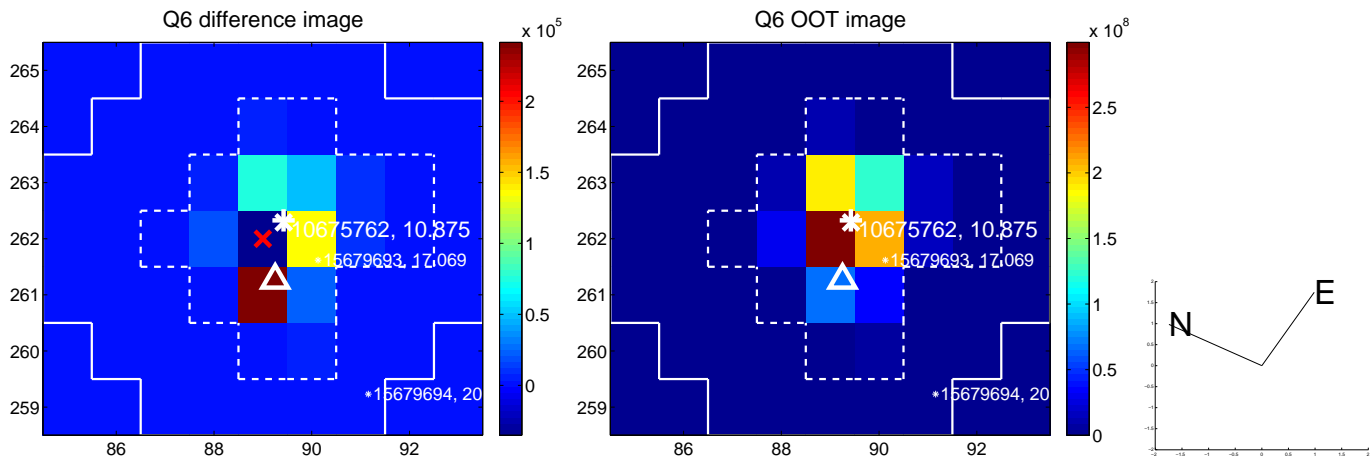
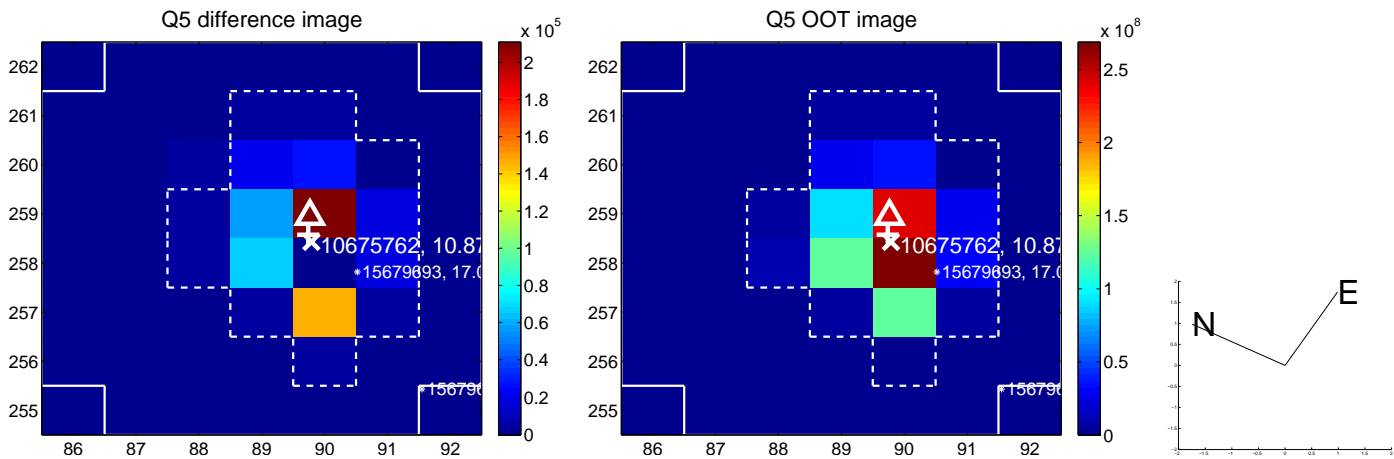


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

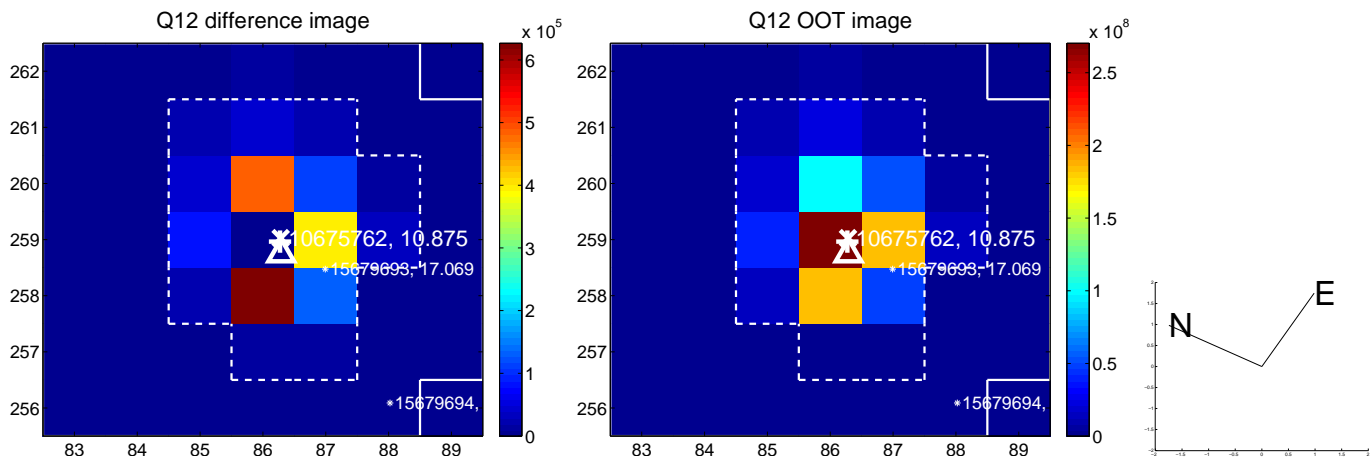
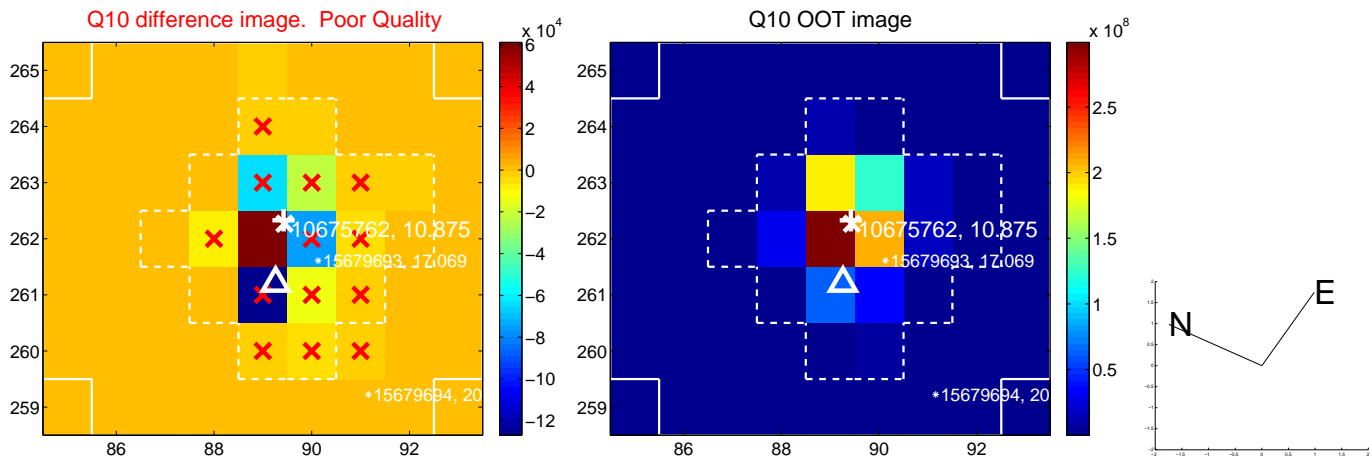
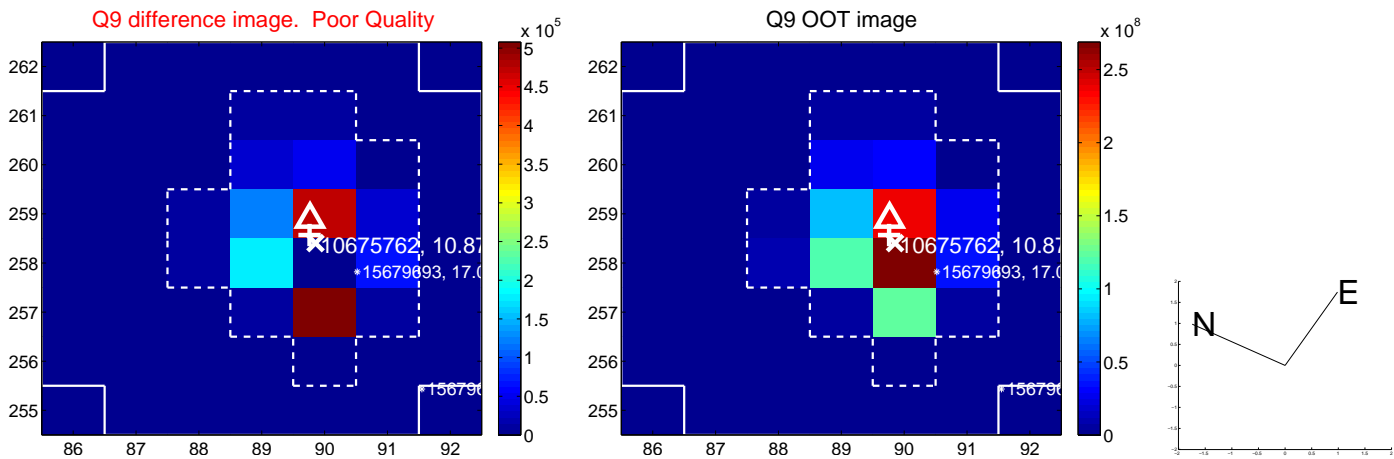
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



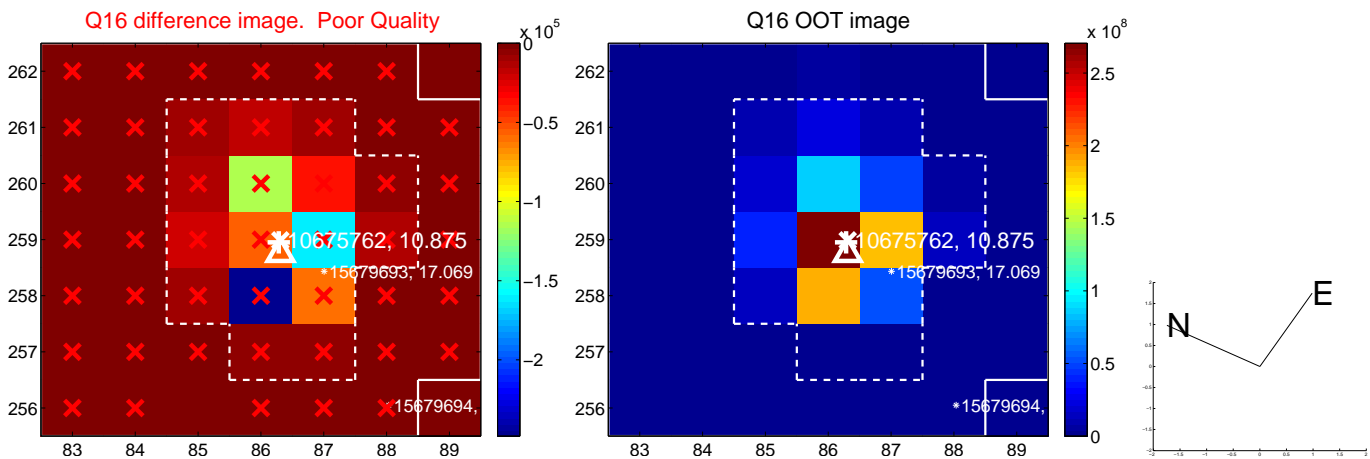
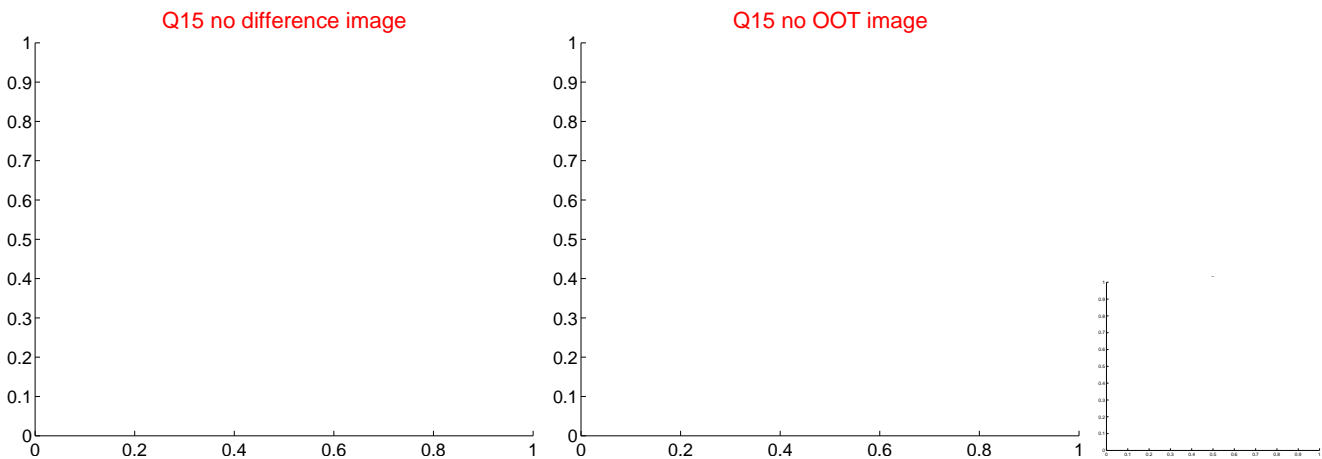
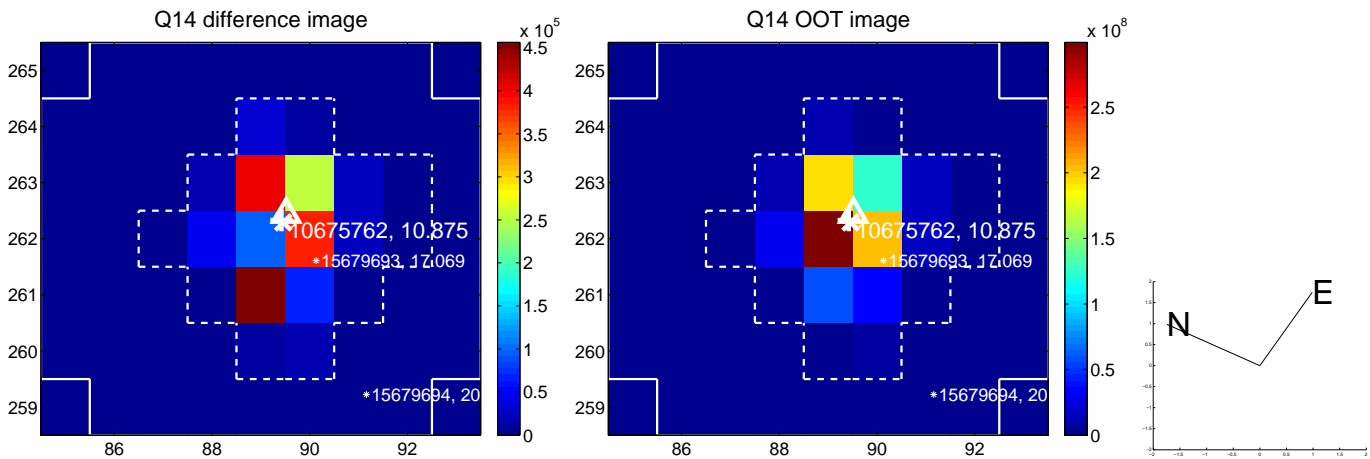
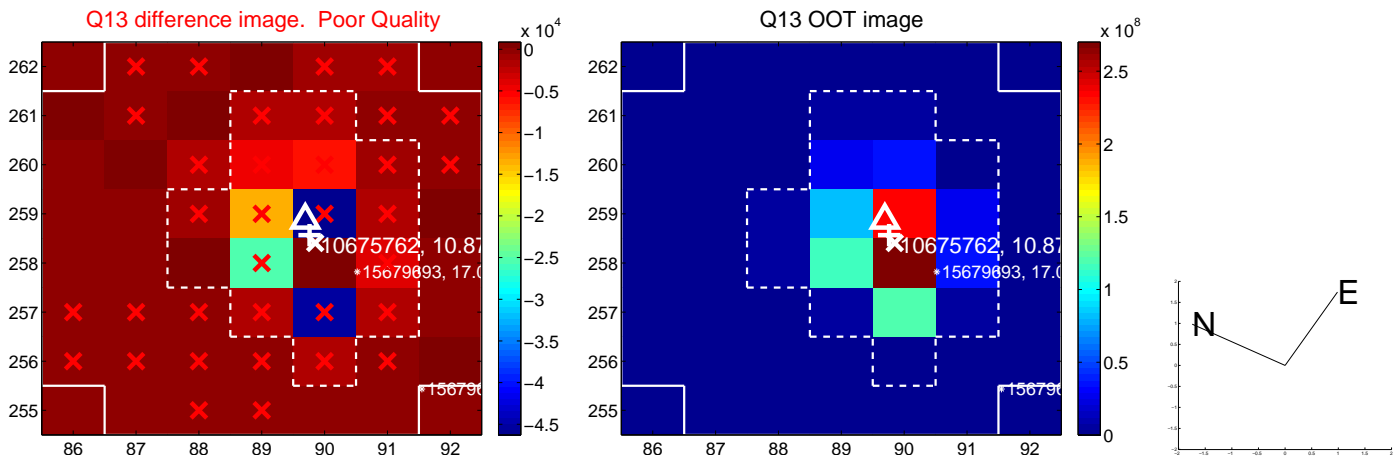
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



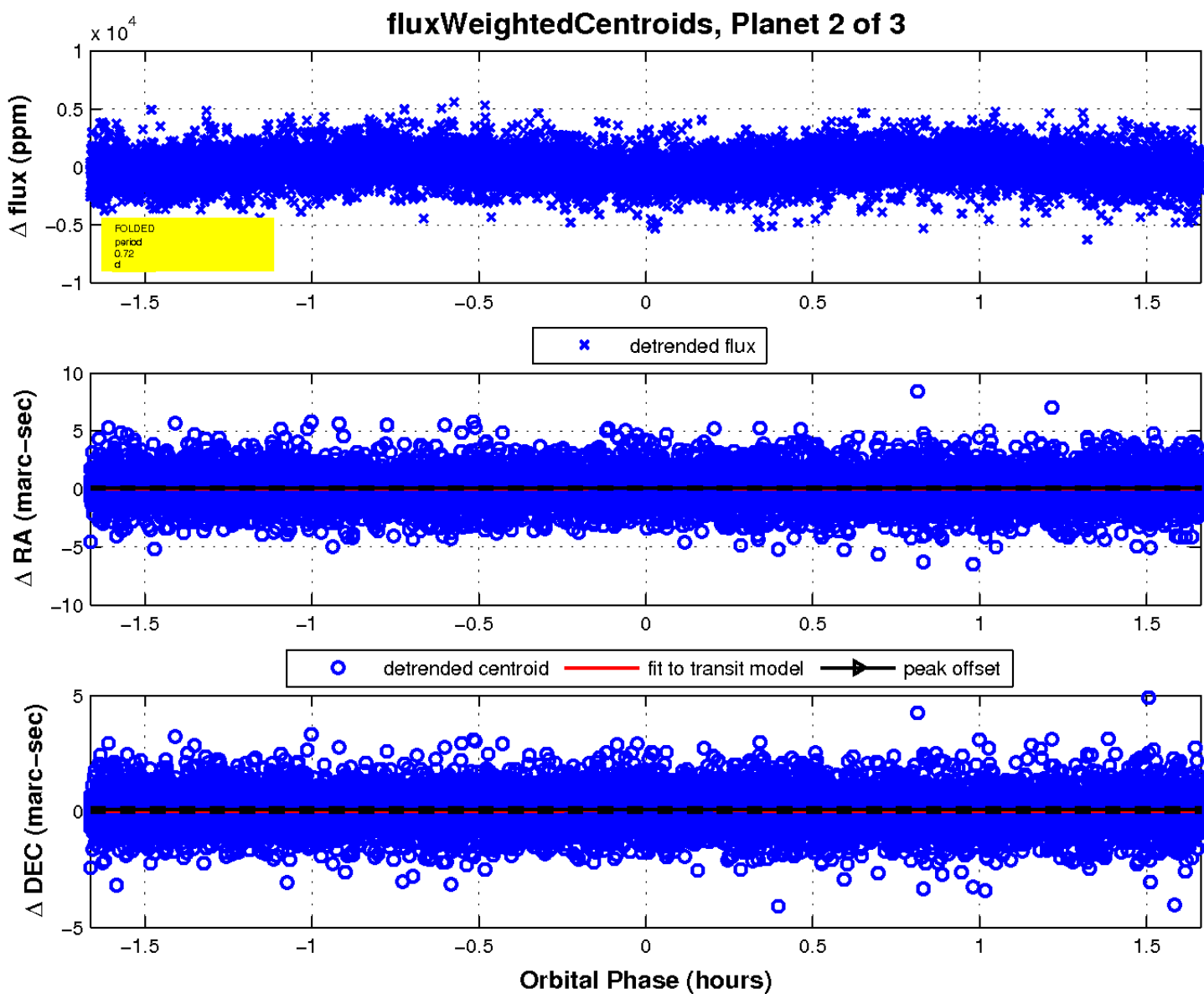
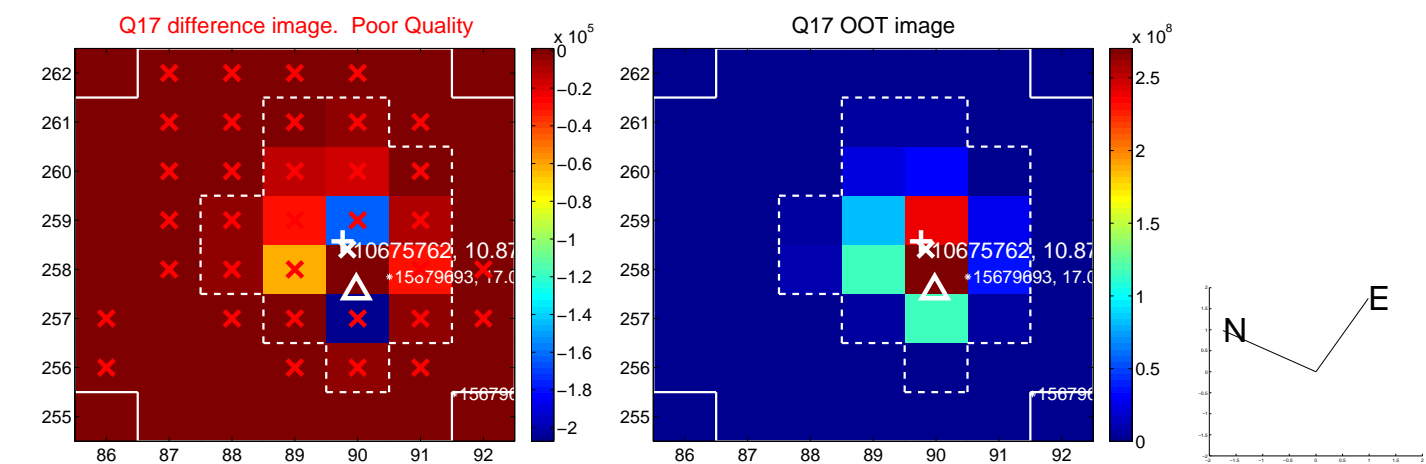
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



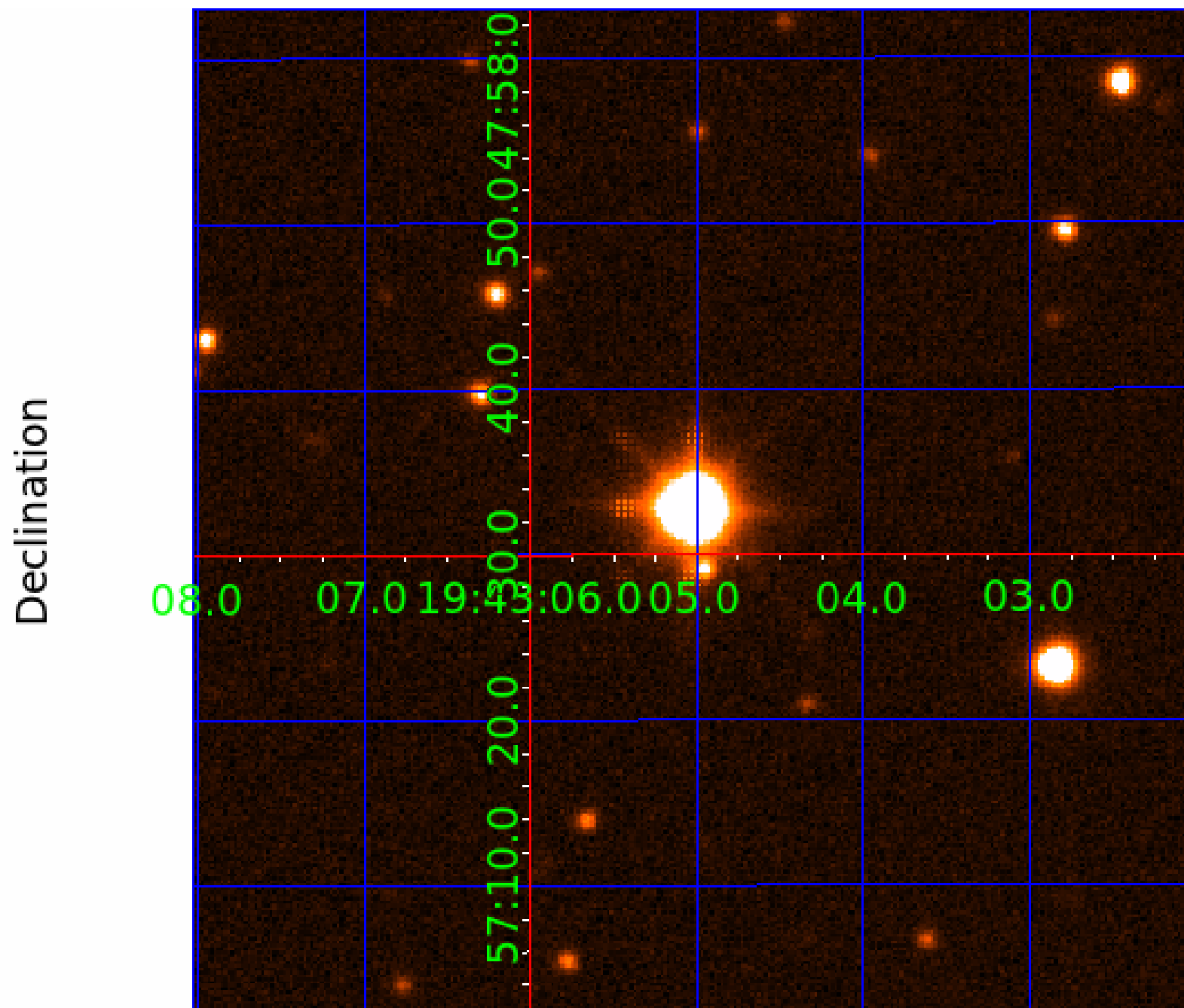
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 010675762

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})
010675762-01	OBS	No	0.718483	131.857685	417.1	0.872	17.3	16.2	3.50	7450	7.74	94372.21
010675762-02	OBS	No	0.718483	131.595308	555.6	0.554	14.8	18.3	3.50	7450	8.61	94372.19
010675762-03	OBS	No	0.718483	132.118032	435.1	0.500	11.2	13.0	3.50	7450	7.72	94372.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010675762-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
010675762-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010675762-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED

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

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

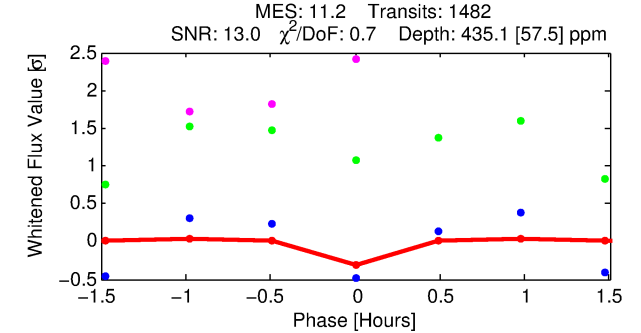
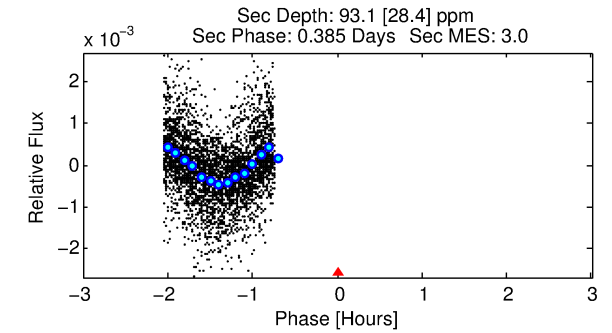
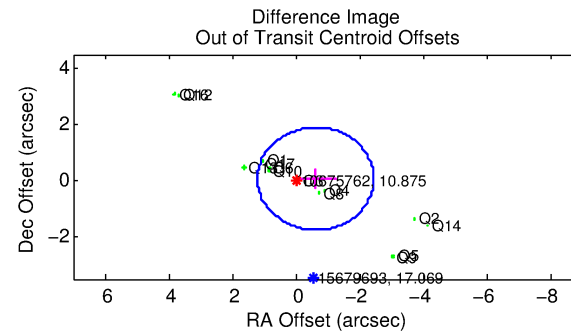
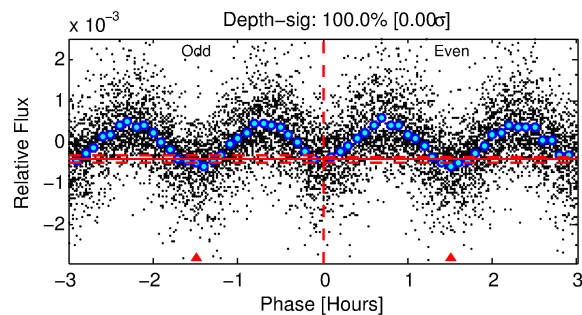
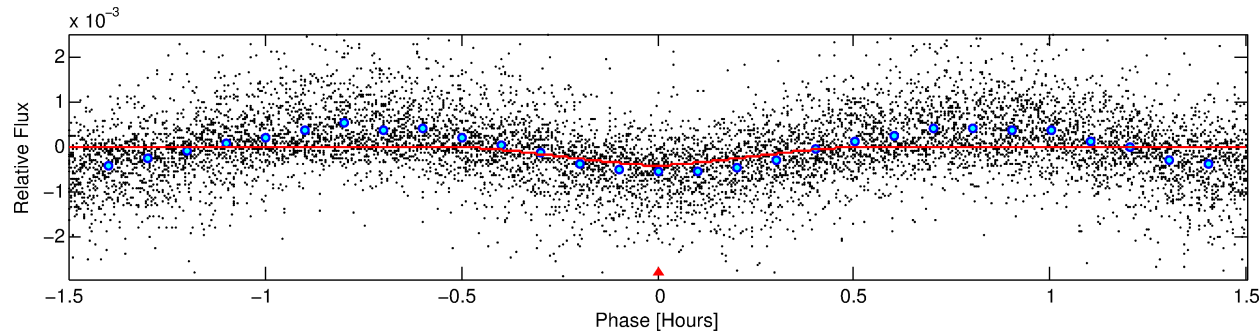
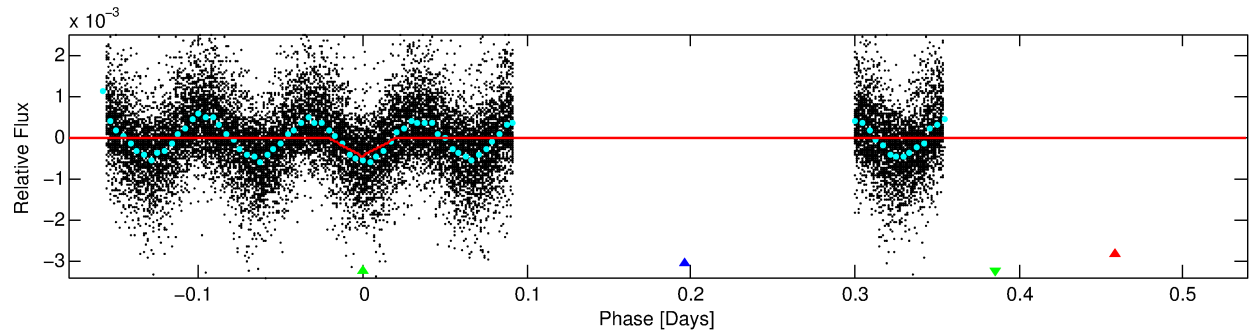
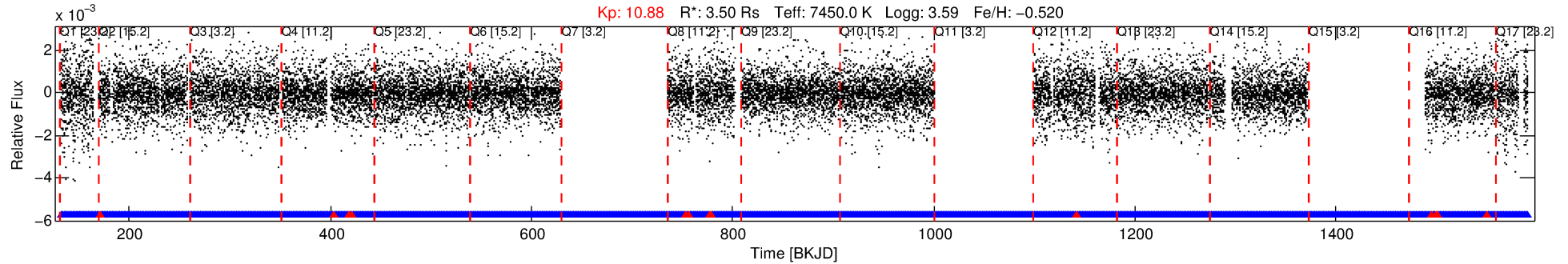
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010675762-03

No Significant Match Found

DV One-Page Summary

KIC: 10675762 Candidate: 3 of 3 Period: 0.718 d



DV Fit Results:

Period = 0.71848 [0.00001] d
Epoch = 132.1180 [0.0007] BKJD
Rp/R* = 0.0202 [0.0101]
a/R* = 11.15 [31.87]
b = 0.10 [28.52]
Seff = 94372.19 [95910.62]
Teq = 4469 [1136] K
Rp = 7.72 [5.95] Re
a = 0.0189 [0.0115] AU
Ag = 0.31 [0.45] [-1.55 σ]
Teffp = 5148 [1362] K [0.38 σ]

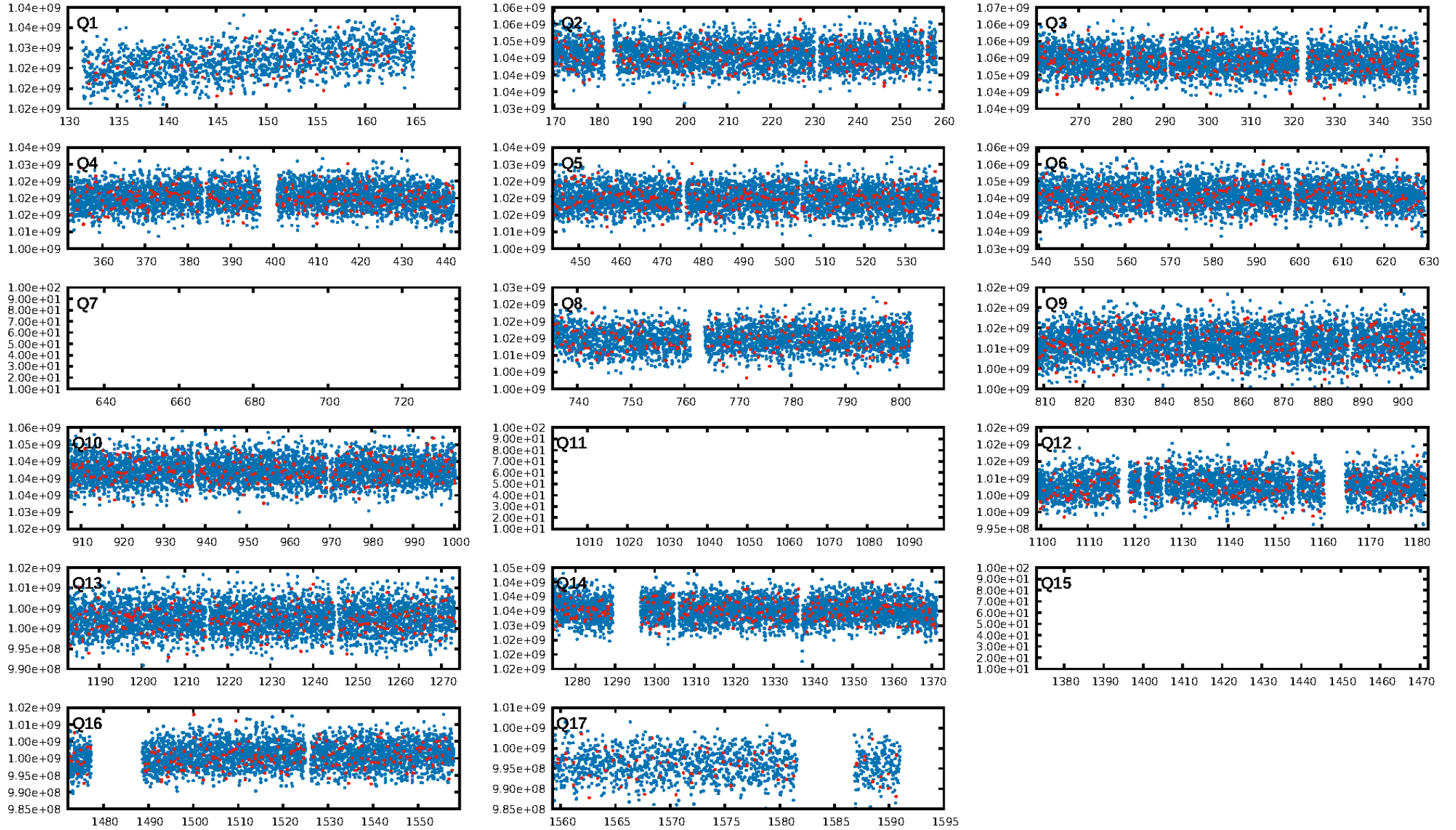
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.19e-29
RollingBand-fgt: 0.99 [1386/1399]
GhostDiagnostic-chr: 3.424
Centroid-sig: 0.0%
Centroid-so: 0.621 arcsec [5.74 σ]
OotOffset-rm: 0.630 arcsec [1.03 σ]
KicOffset-rm: 0.707 arcsec [1.21 σ]
OotOffset-st: 4/1/4/5 [14]
KicOffset-st: 4/1/4/5 [14]
DiffImageQuality-fgm: 0.50 [7/14]
DiffImageOverlap-fno: 0.00 [0/14]

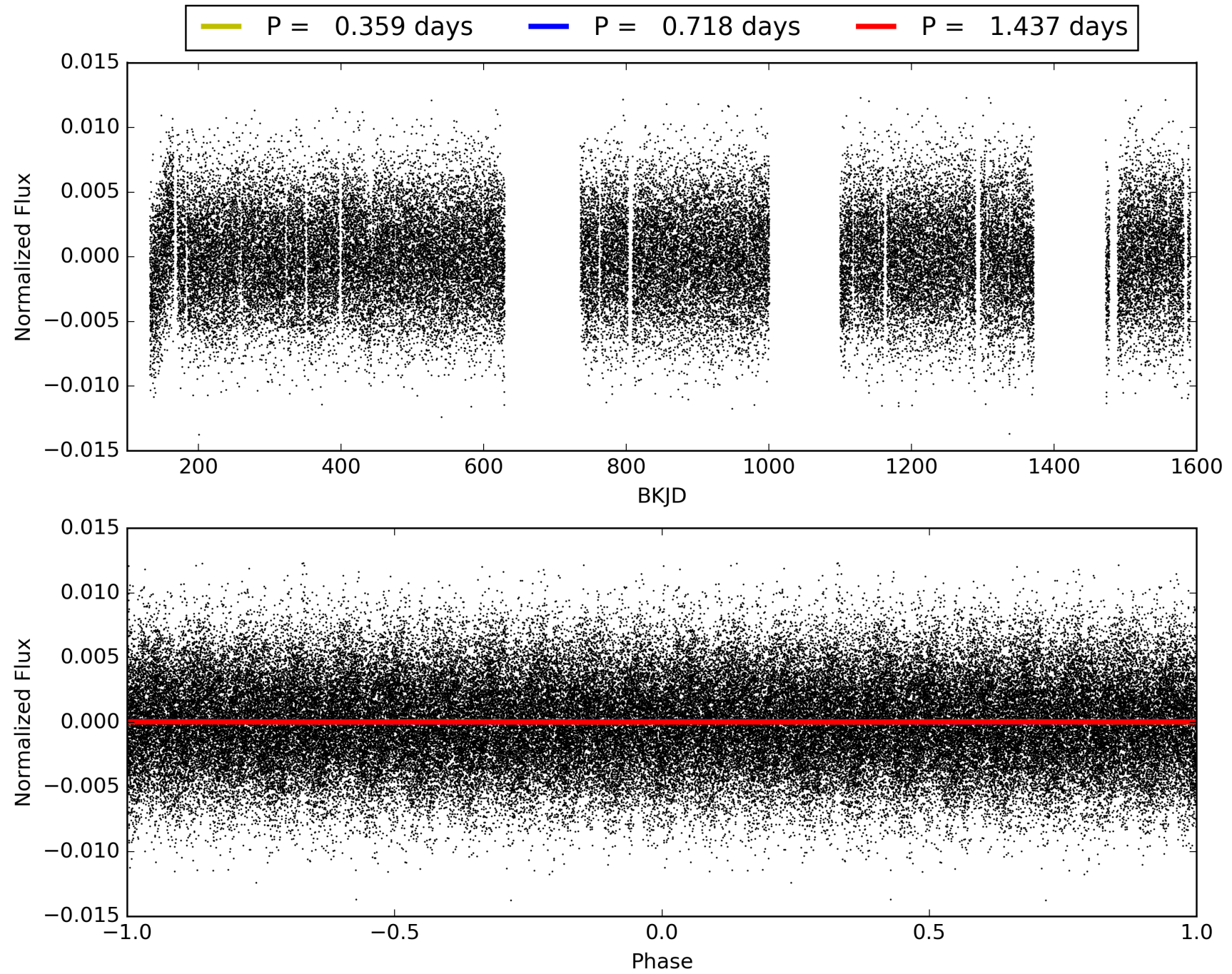
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 20:06:19 Z

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

TCE 010675762-03, PDC Light Curves

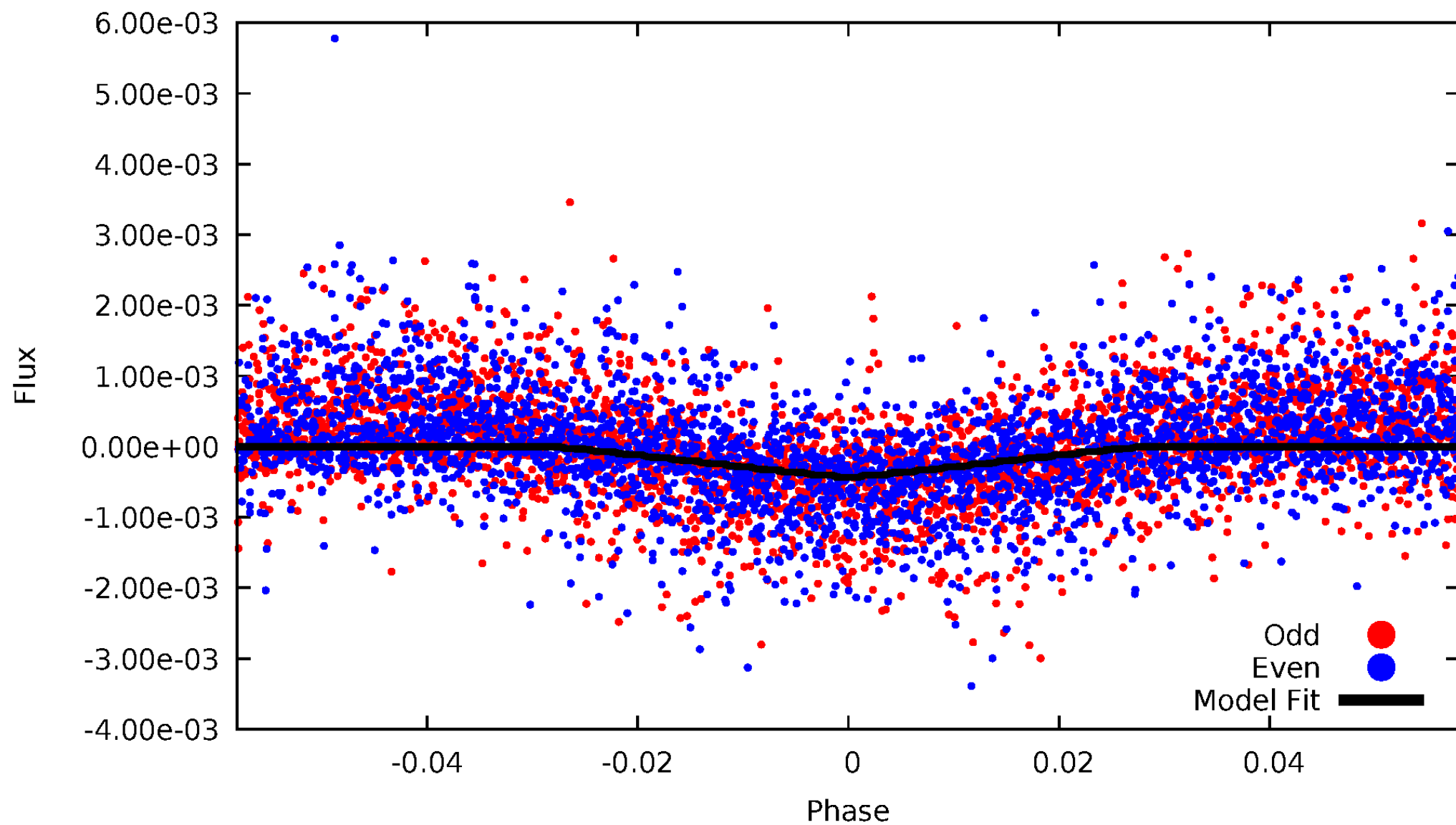


TCE 010675762-03



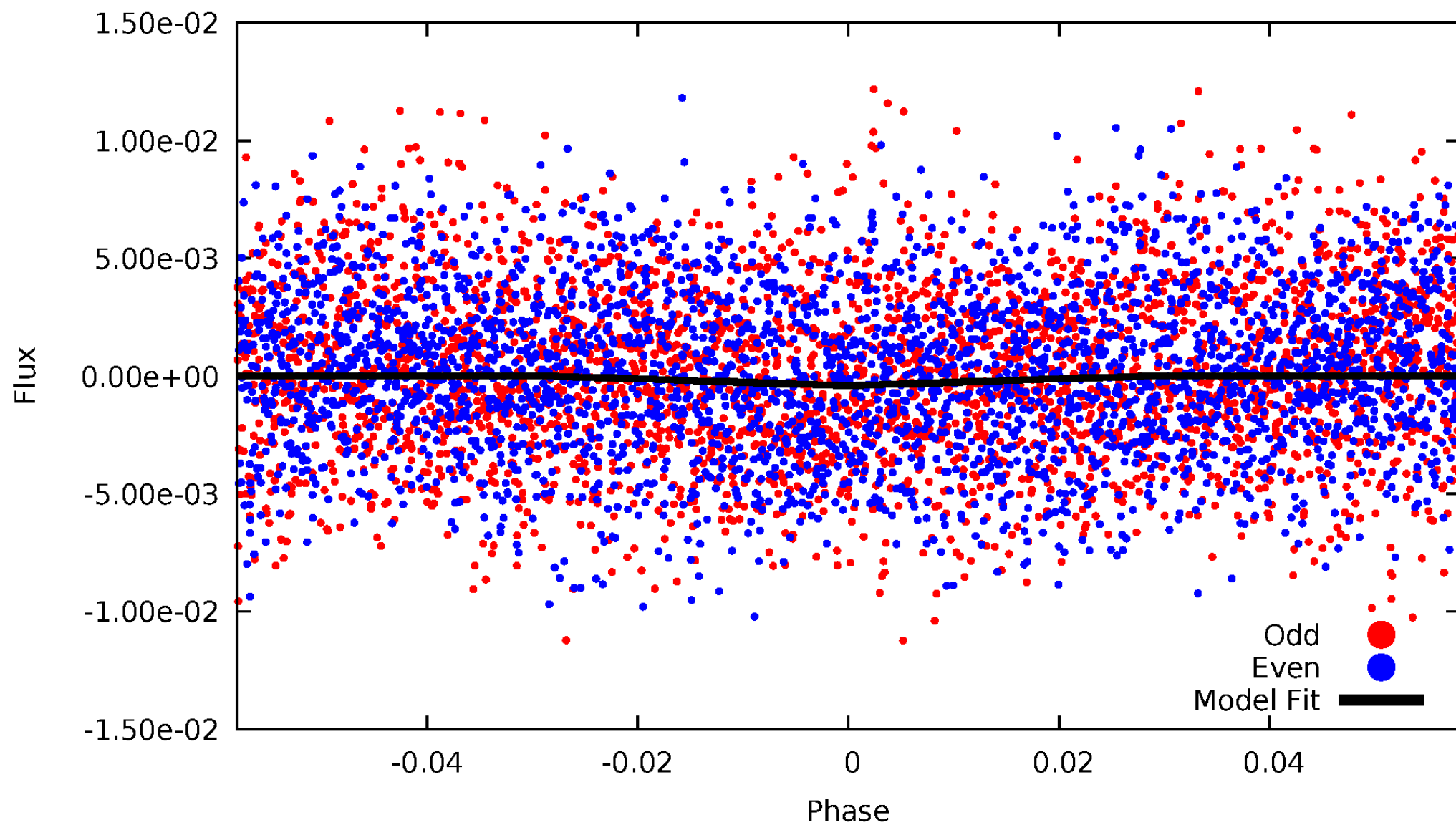
DV Odd/Even

TCE 010675762-03



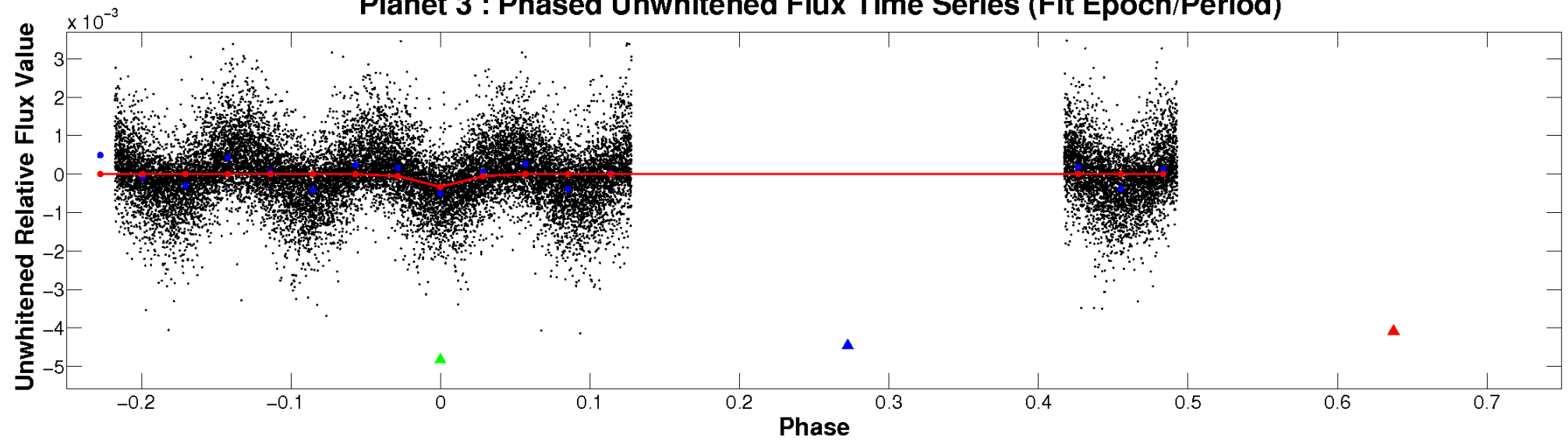
ALT Odd/Even

TCE 010675762-03

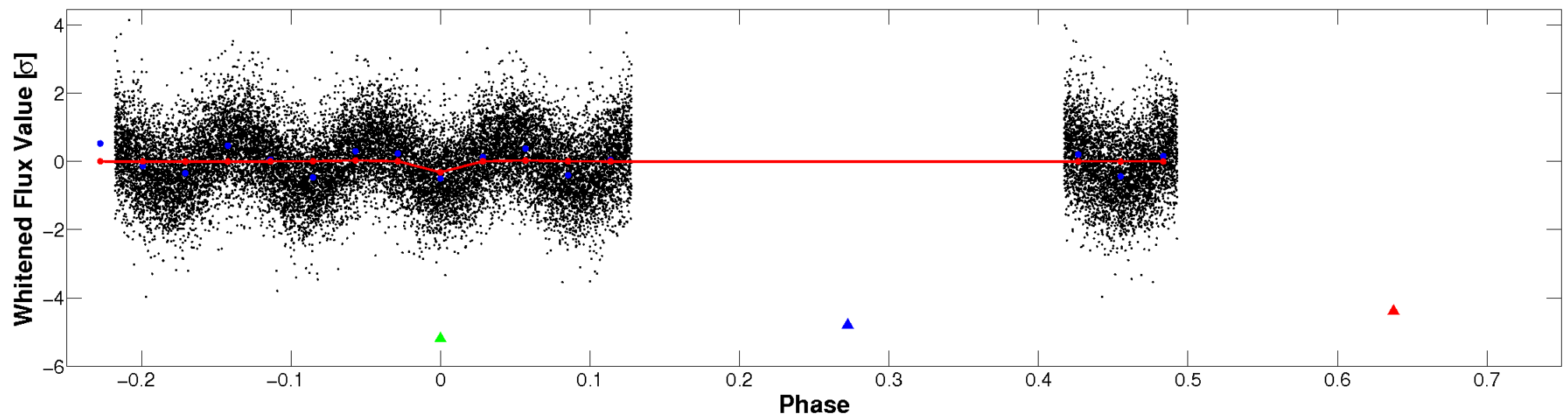


Non-Whitened Vs. Whitened Light Curve

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

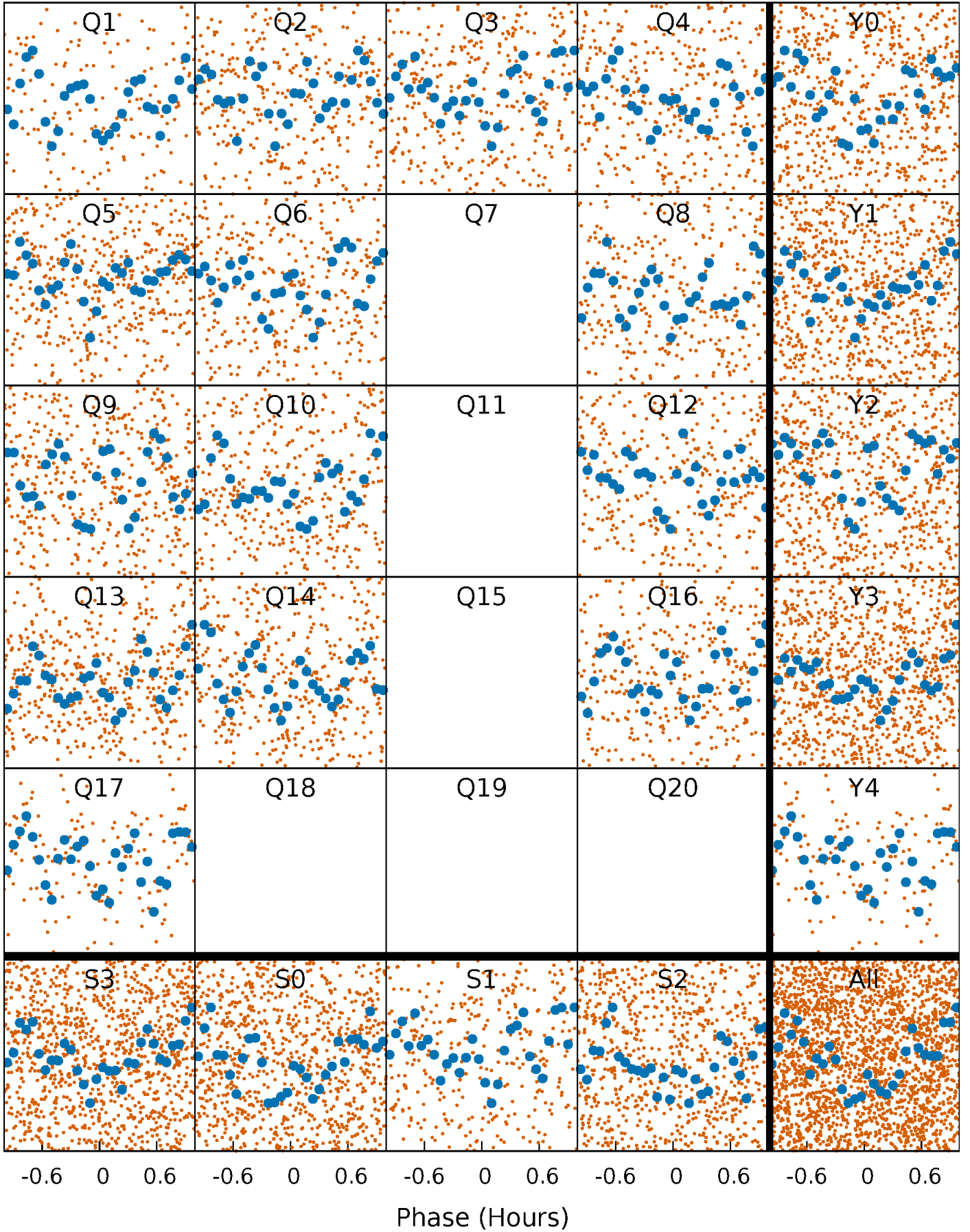


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



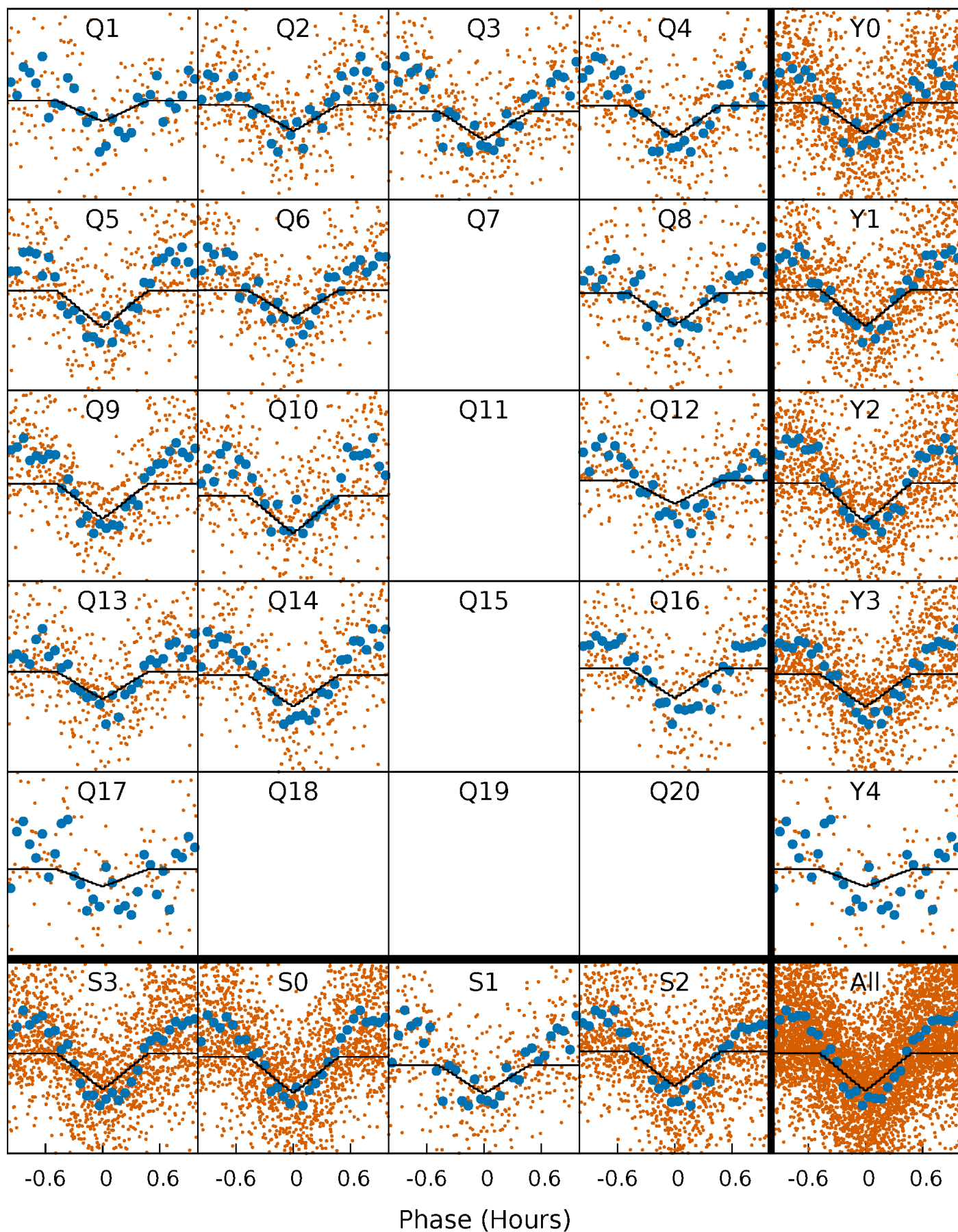
PDC Quarter-Phased Transit Curves

TCE 010675762-03 P= 0.718483 Days $T_0=132.118032$ (BKJD)



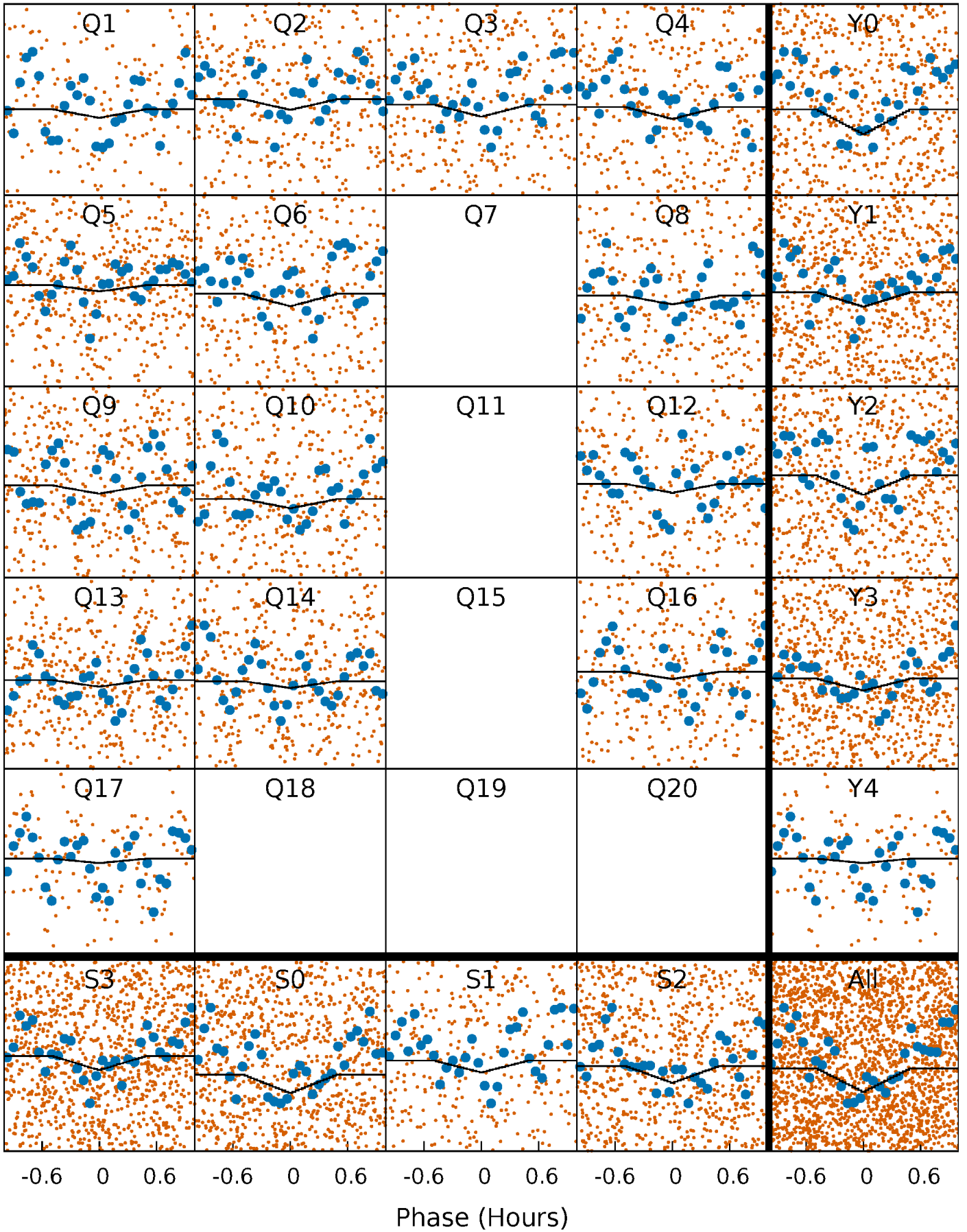
DV Quarter-Phased Transit Curves

TCE 010675762-03 P= 0.718483 Days $T_0=132.118032$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

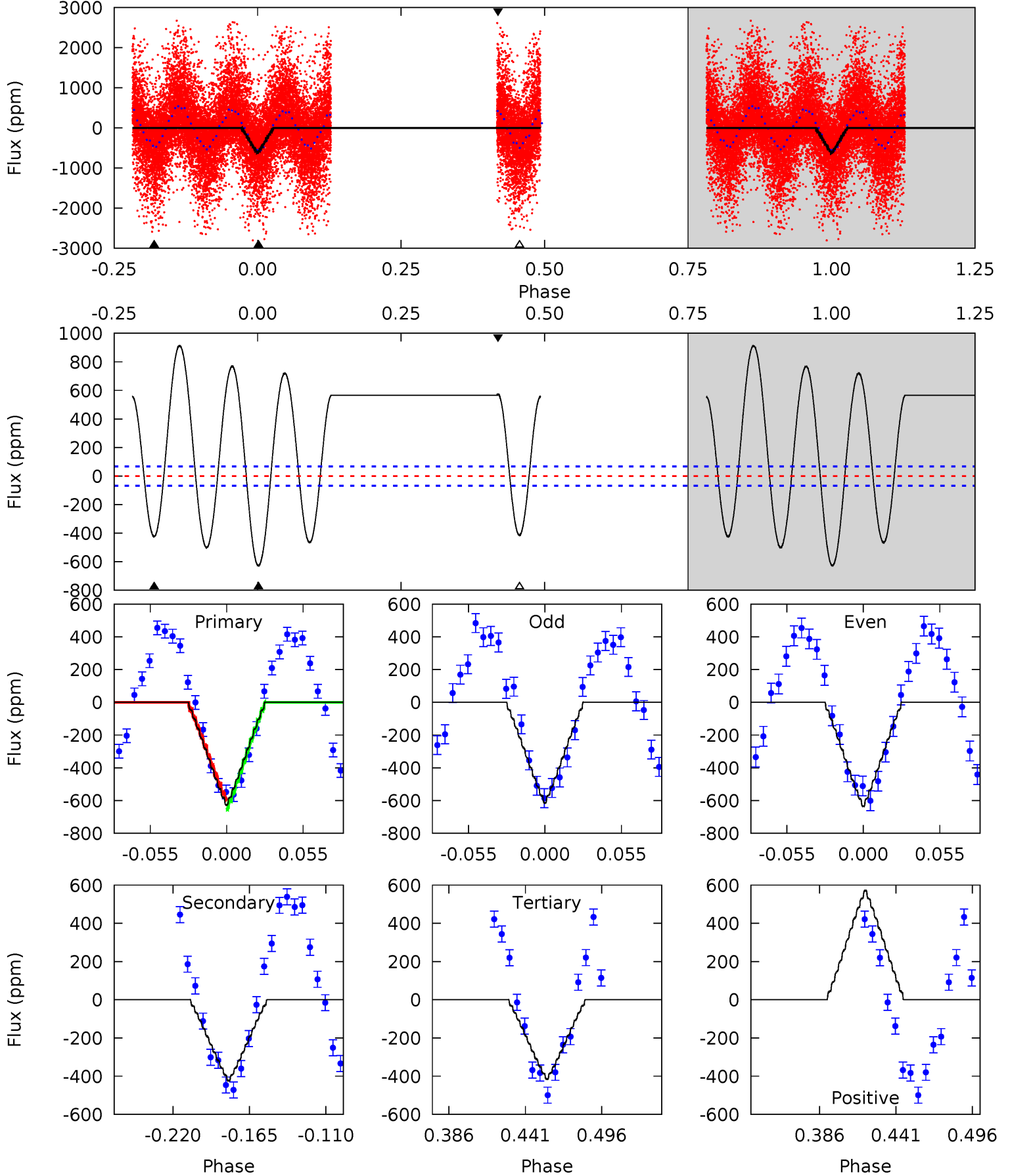
TCE 010675762-03 P= 0.718483 Days $T_0=132.118032$ (BKJD)



DV Model-Shift Uniqueness Test

010675762-03, P = 0.718483 Days, E = 131.399549 Days

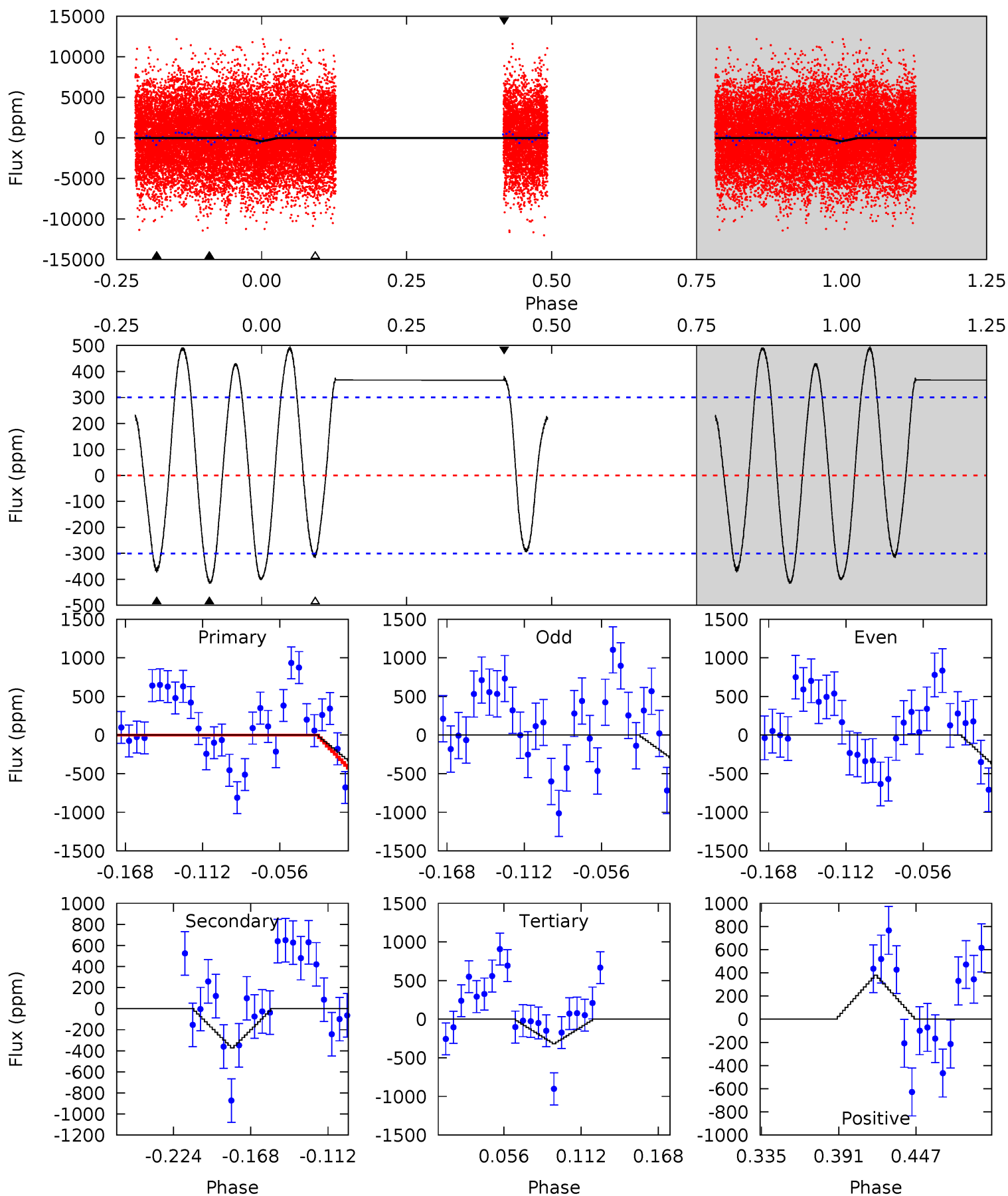
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
43.6	29.5	28.9	39.8	4.69	1.92	25.4	14.7	3.85	0.64	-10.2	0.74	1.17	0.59	1.95



Alt Model-Shift Uniqueness Test

010675762-03, P = 0.718483 Days, E = 131.399549 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.49	5.82	4.94	5.91	4.69	1.91	4.09	1.55	0.58	0.88	-0.09	0.78	0.63	0.54	1.80



Stellar Parameters For KIC 010675762

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7450^{+233}_{-285}	$3.593^{+0.603}_{-0.106}$	$-0.520^{+0.300}_{-0.300}$	$3.498^{+0.362}_{-2.050}$	$1.748^{+0.172}_{-0.549}$	$0.058^{+0.485}_{-0.019}$
	+3%/-4%	+17%/-3%	+58%/-58%	+10%/-59%	+10%/-31%	+844%/-34%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 010675762-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-425 ± 14	$7.06^{+4.22}_{-3.49}$	6130^{+378}_{-785}	6990^{+3740}_{-1766}	$1.661^{+4.510}_{-1.001}$
Alt.	-373 ± 64	$6.74^{+4.41}_{-3.49}$	6051^{+436}_{-852}	6708^{+4485}_{-1766}	$1.620^{+5.015}_{-1.027}$

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 $A_{obs} \gg 1.0$

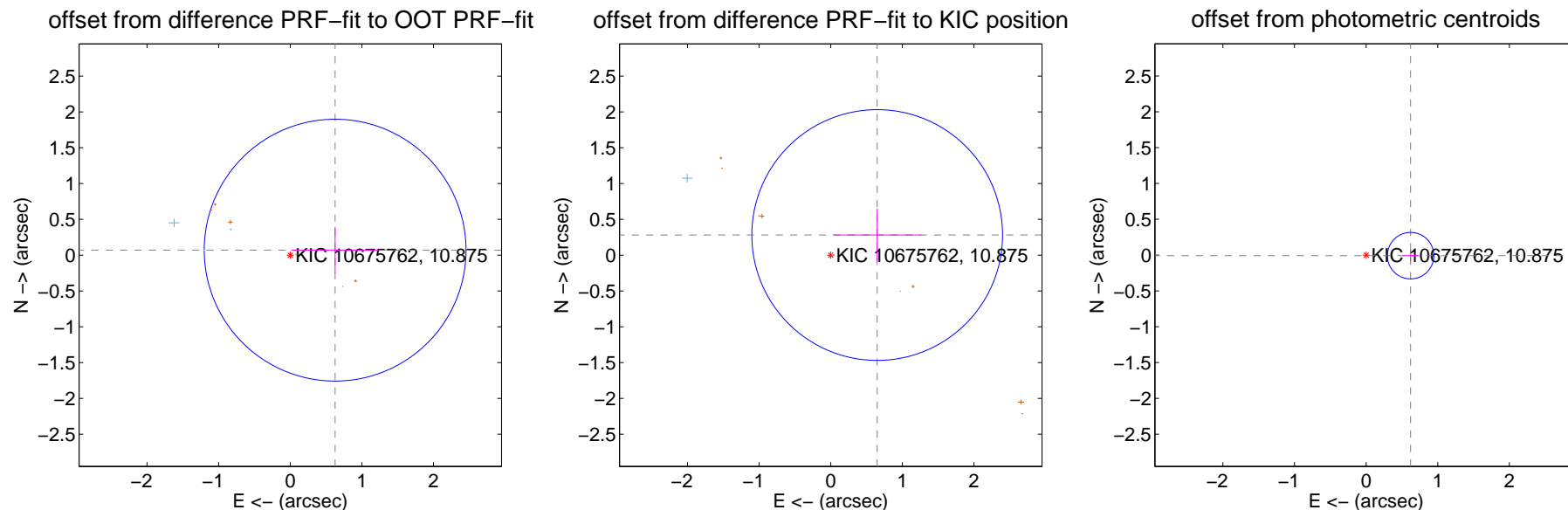
DV Centroid Data

Supplemental centroid analysis for 010675762-03. **Kepler magnitude: 10.88.** Transit SNR 13.04

There are 7 quarters with good PRF difference image offsets

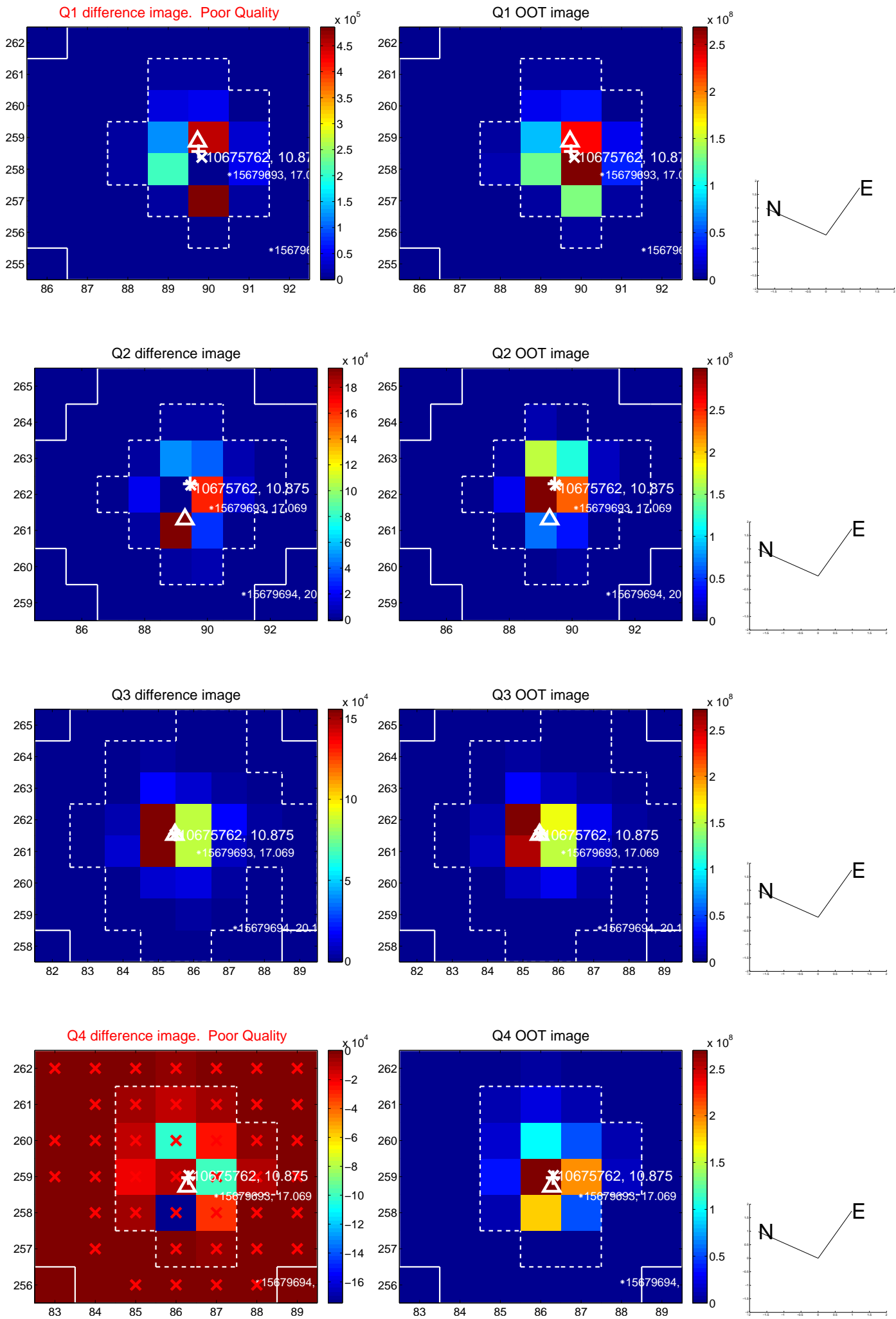
The direct PRF centroid is offset from the target star catalog position by about 0.72 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.630 ± 0.609	1.03	-0.626 ± 0.612	0.070 ± 0.323
PRF-fit source offset from KIC position	0.707 ± 0.583	1.21	-0.649 ± 0.615	0.281 ± 0.369
photometric centroid source offset	0.62 ± 0.11	5.74	-0.62 ± 0.11	-0.01 ± 0.09

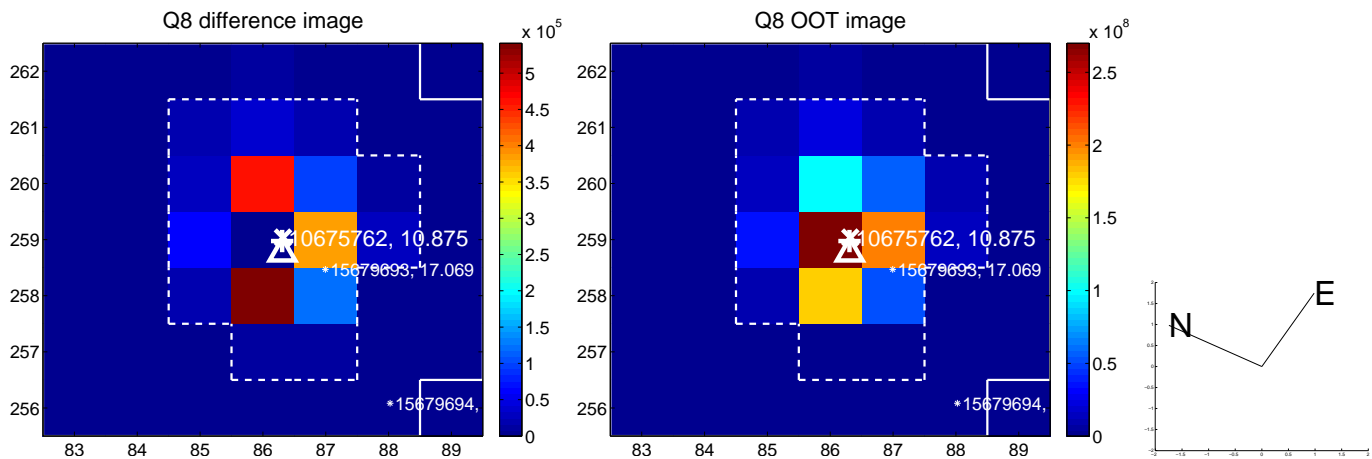
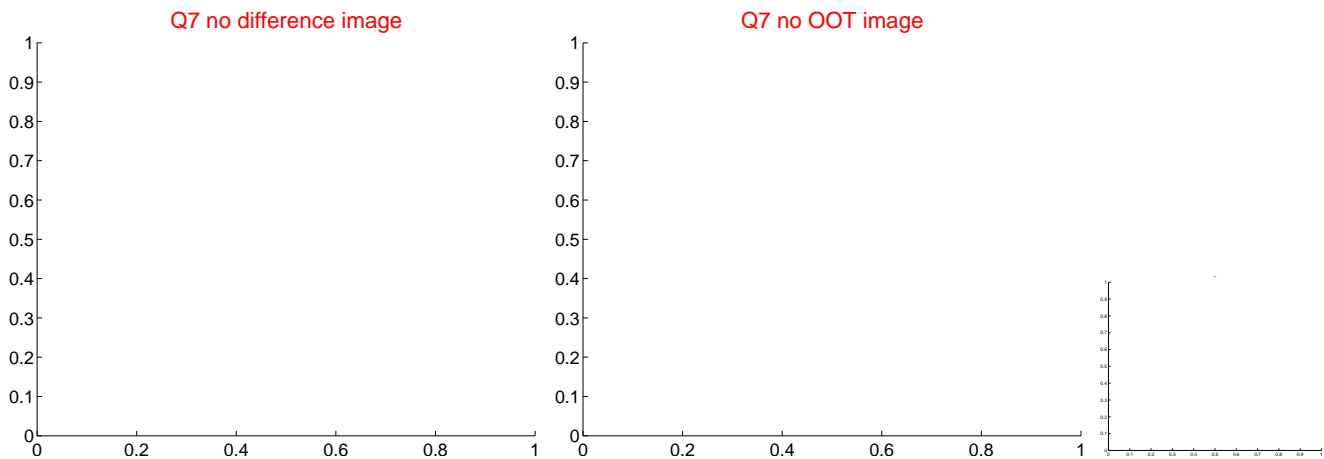
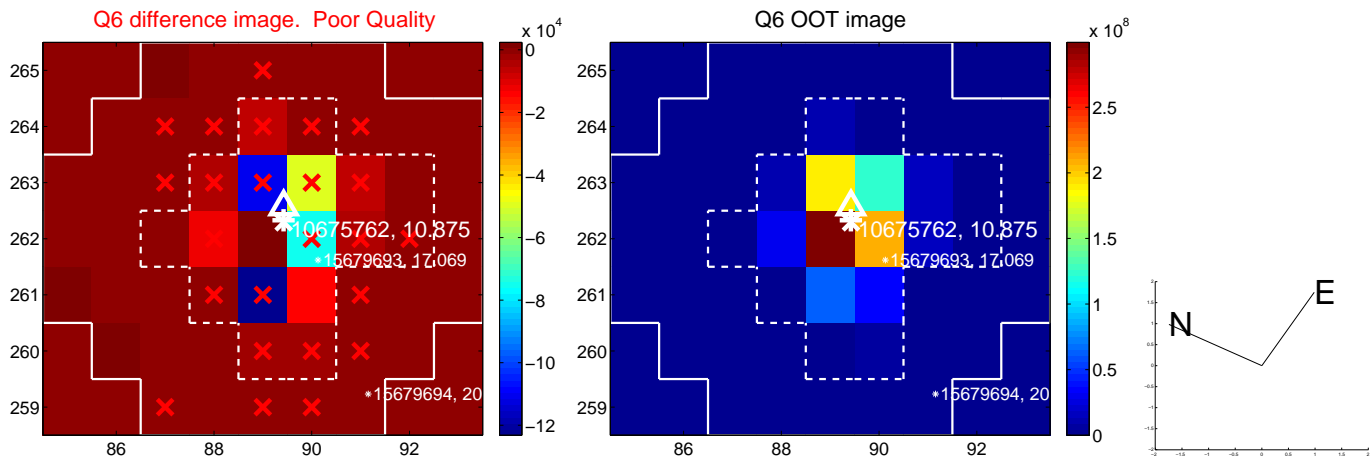
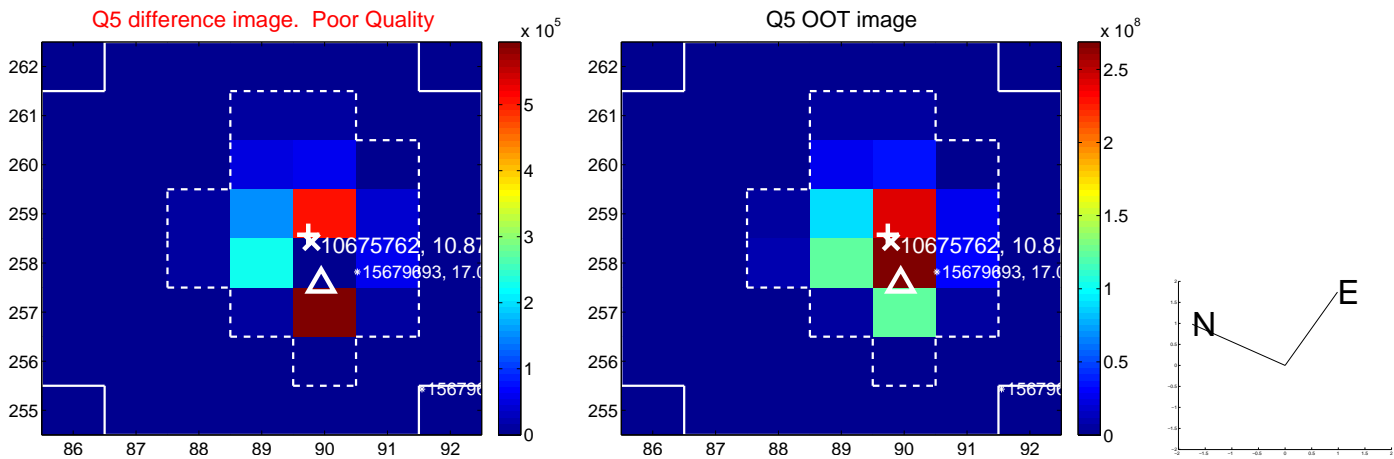


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

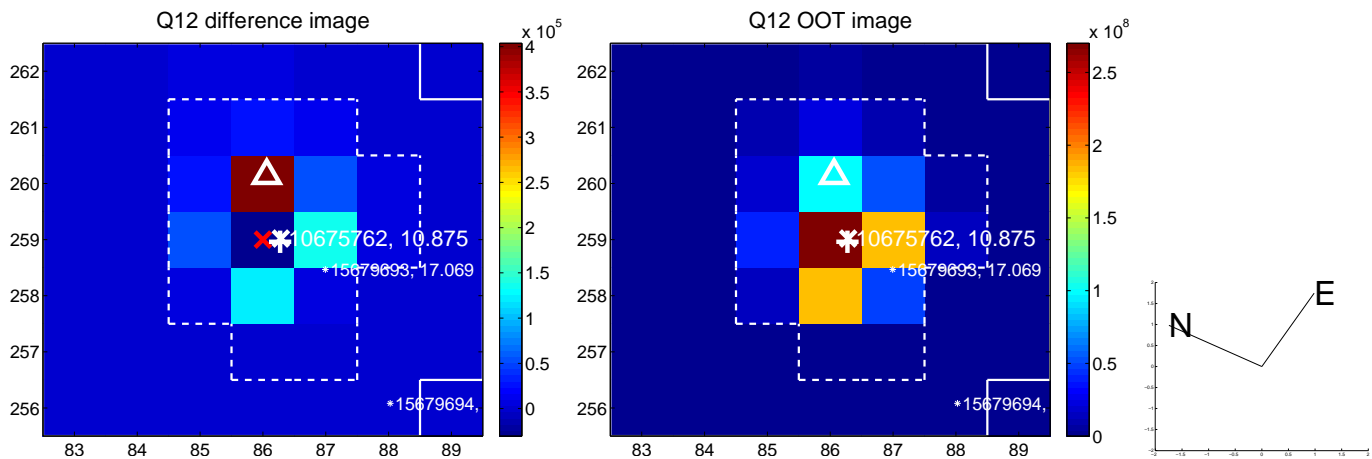
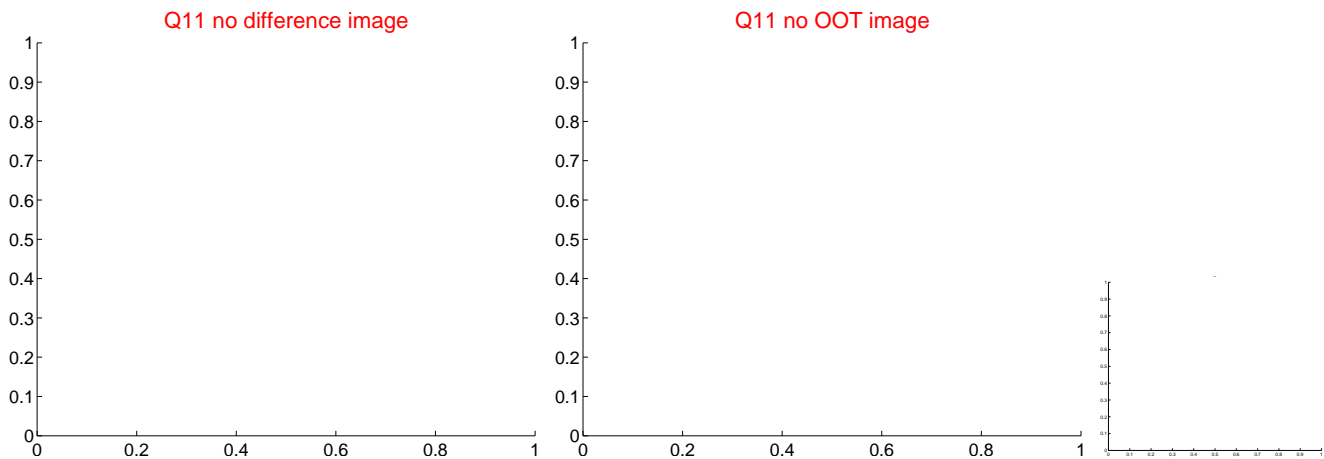
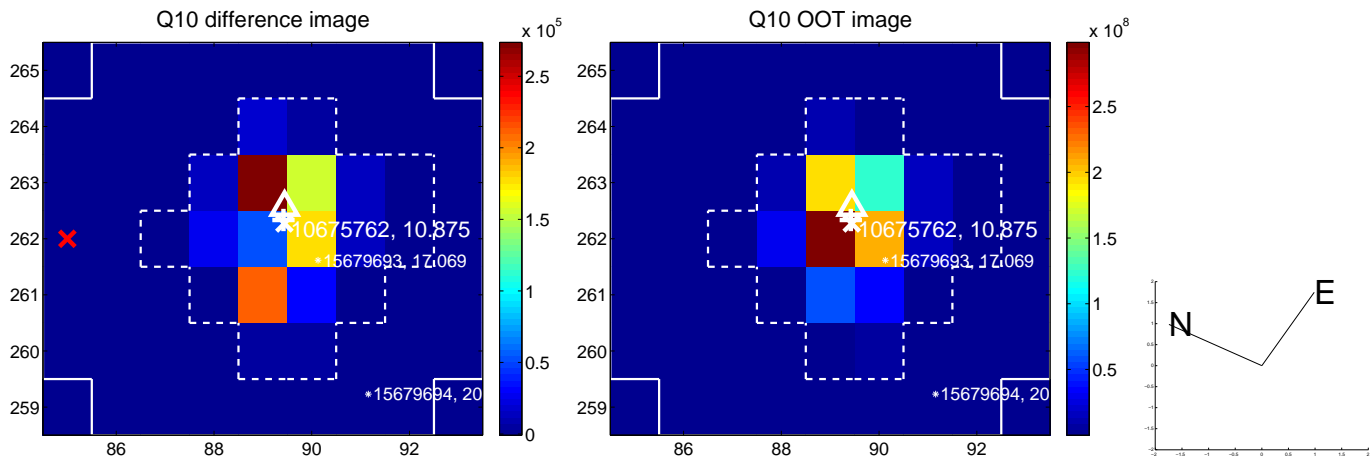
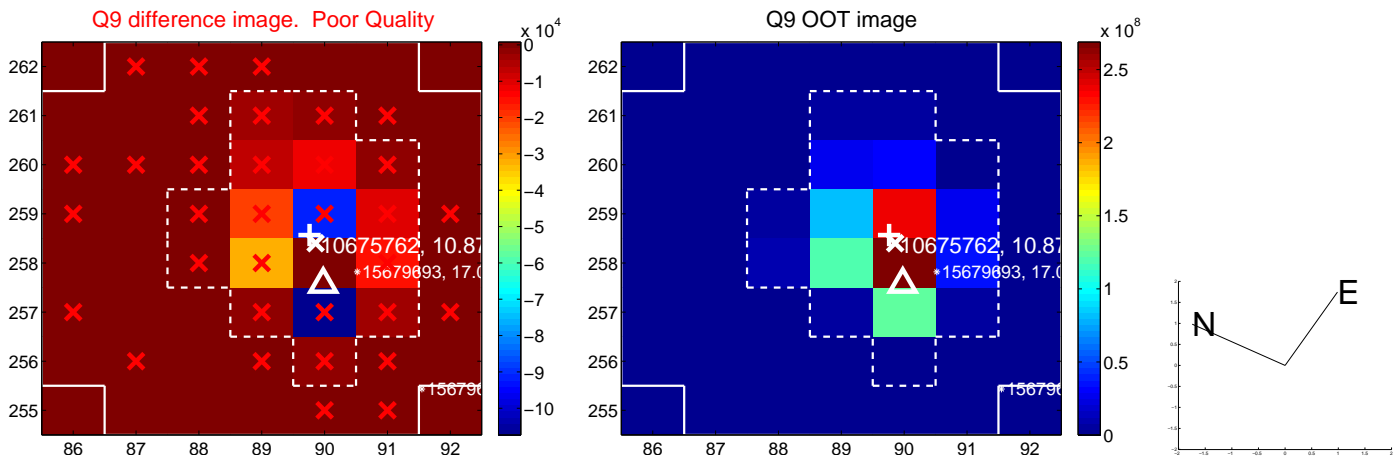
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



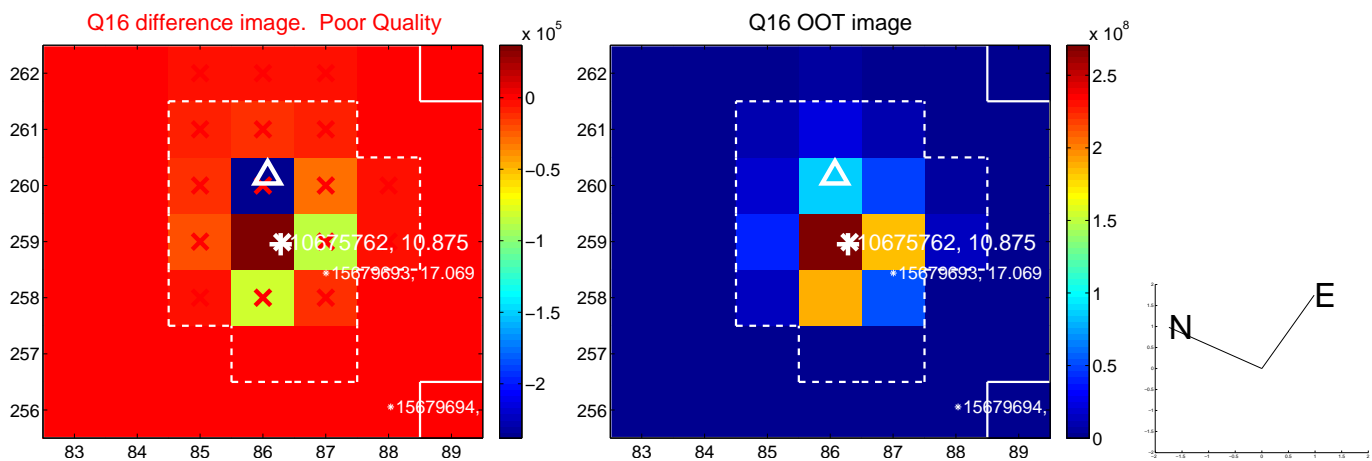
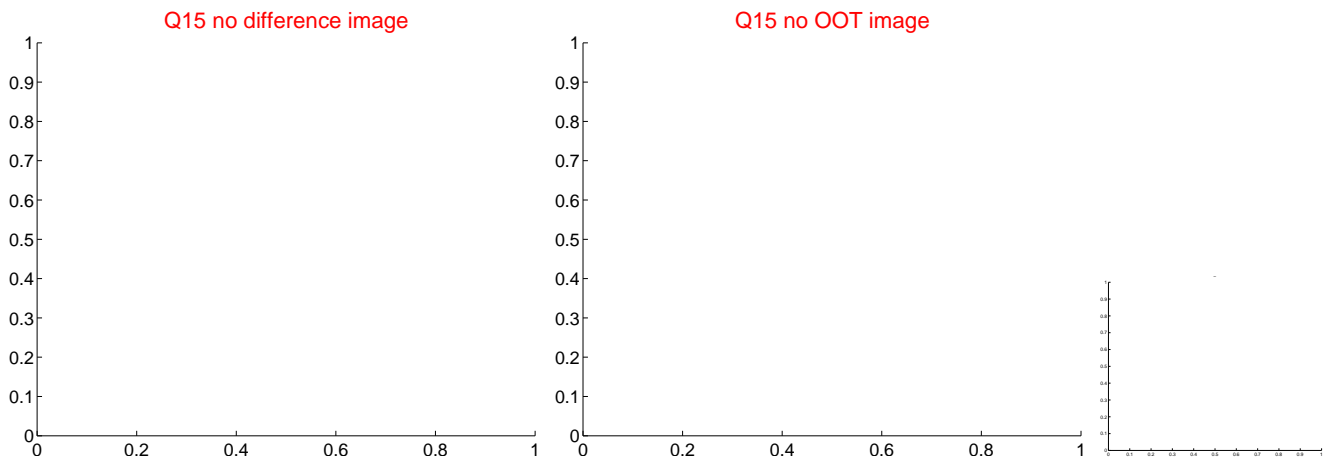
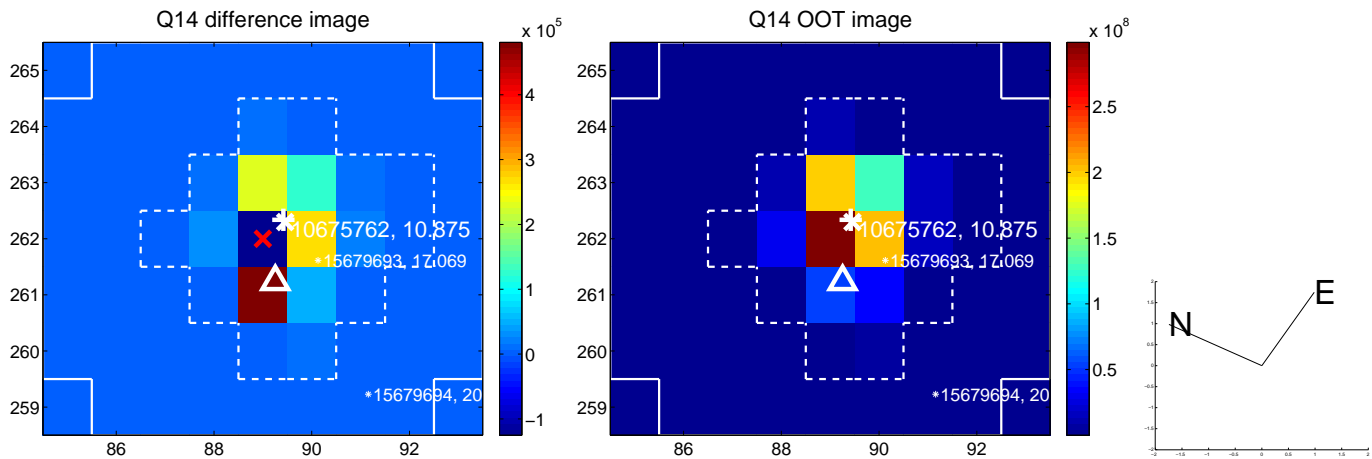
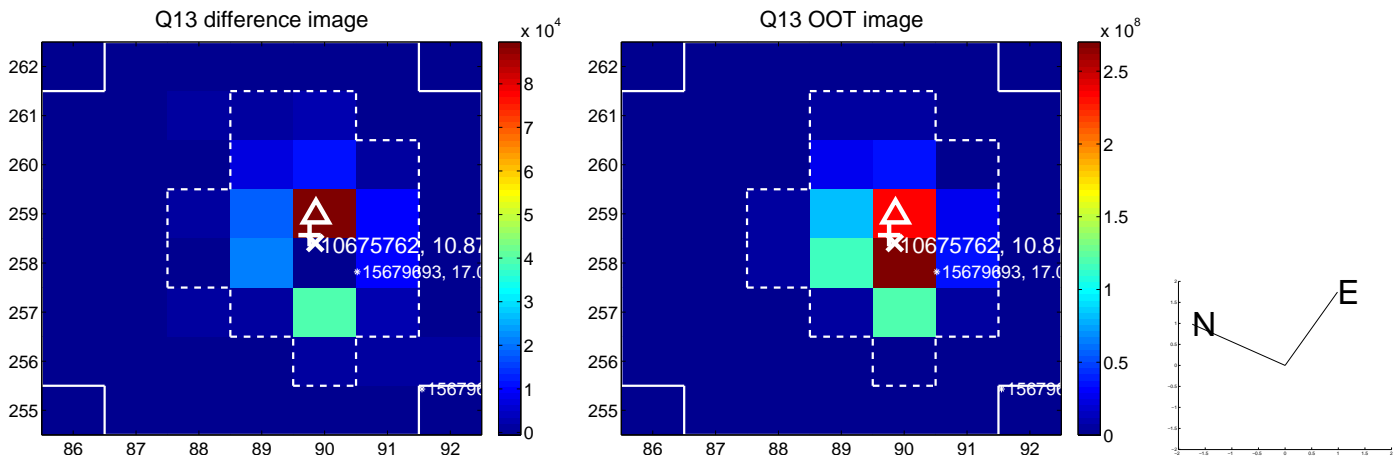
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



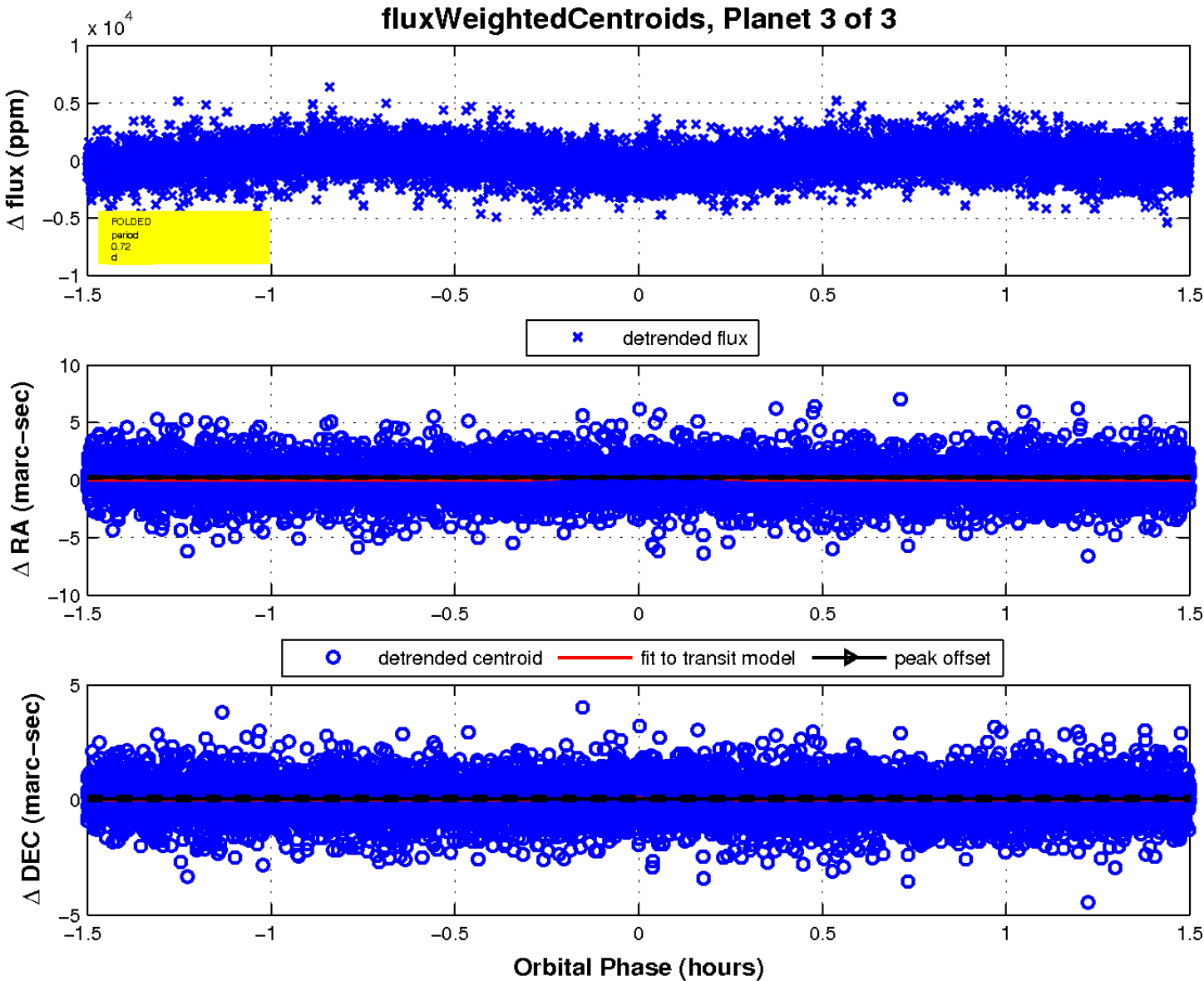
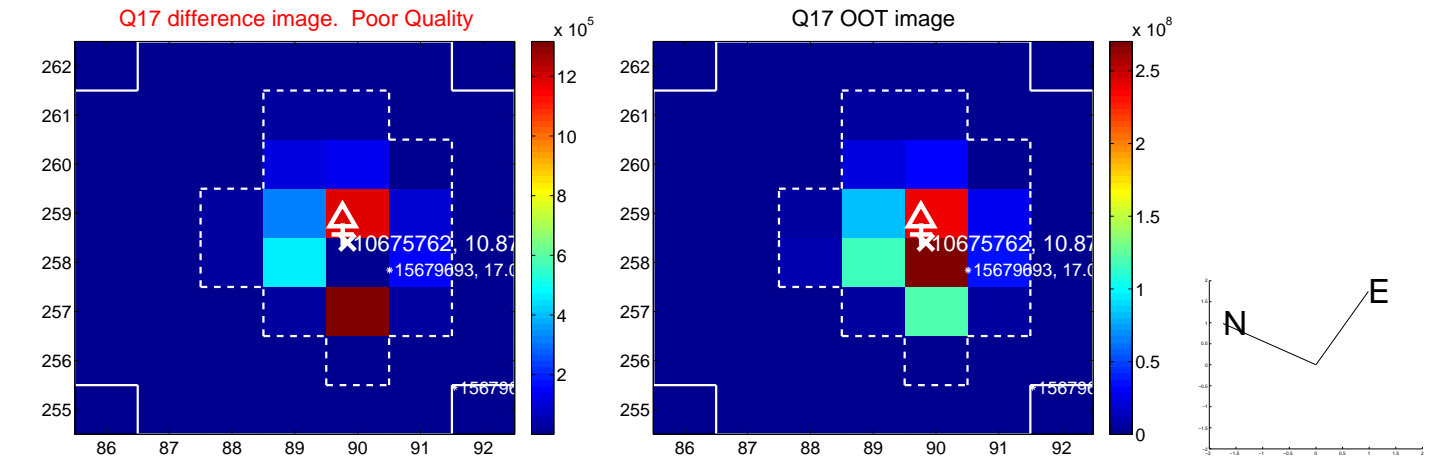
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

