

KIC 006706287

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})
006706287-01	OBS	6761.01	1.267694	132.117189	331474.5	3.500	15106.5	-1.0	0.96	5446	23.31	1576.40
006706287-02	OBS	No	5.070719	136.152870	26247.5	33.062	6079.2	149.0	0.96	5446	15.29	248.27
006706287-03	OBS	No	5.071015	133.642718	3297.9	17.968	771.4	52.8	0.96	5446	5.48	248.25

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006706287-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_DV—DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_ALT—HAS_SEC_TCE—CENT_NOFITS
006706287-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—RESIDUAL_TCE
006706287-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—RESIDUAL_TCE

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.

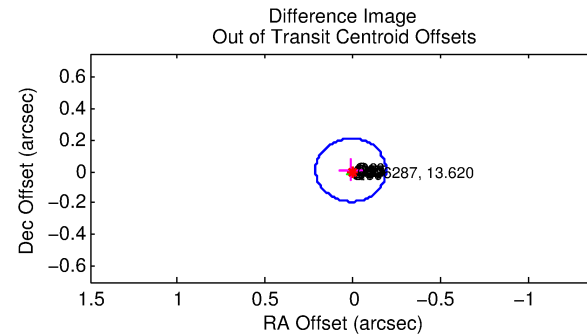
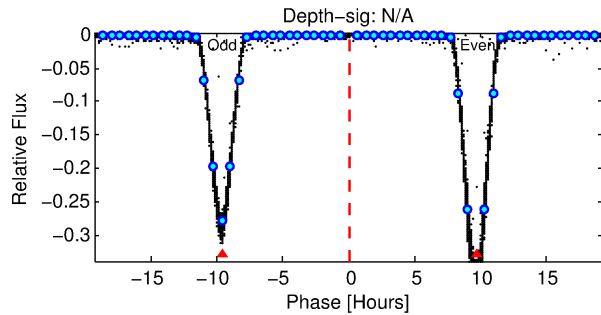
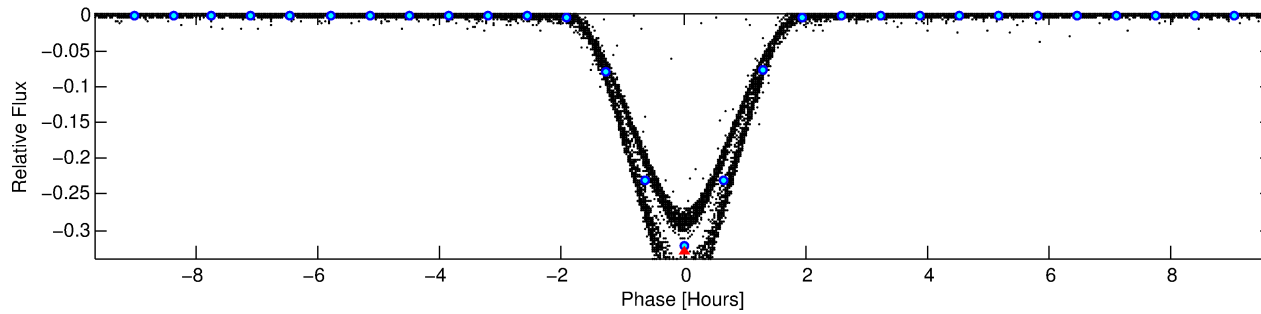
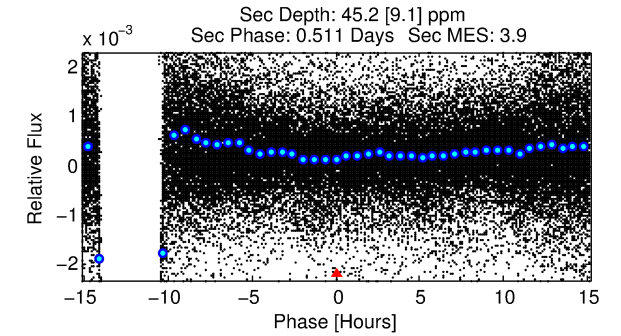
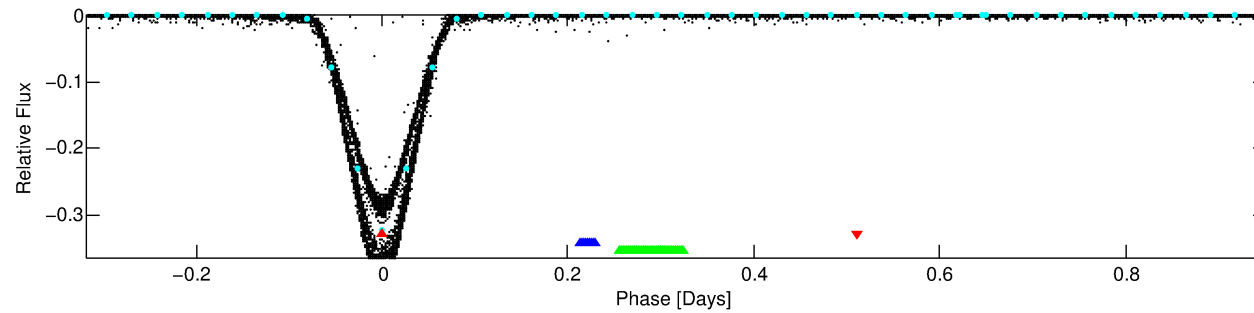
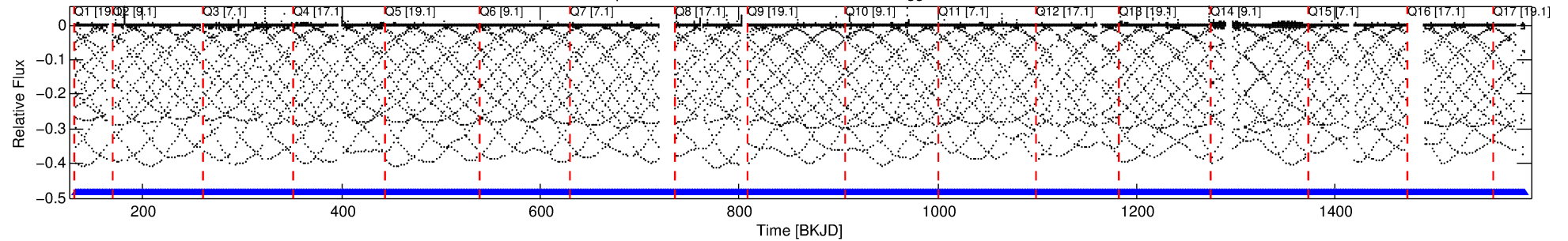
Ephemeris Match Information For 006706287-01

No Significant Match Found

DV One-Page Summary

KIC: 6706287 Candidate: 1 of 3 Period: 1.268 d
KOI: K06761.01 Corr: 0.980

Kp: 13.62 R*: 0.96 Rs Teff: 5446.0 K Logg: 4.39 Fe/H: -0.080



TPS TCE Results:

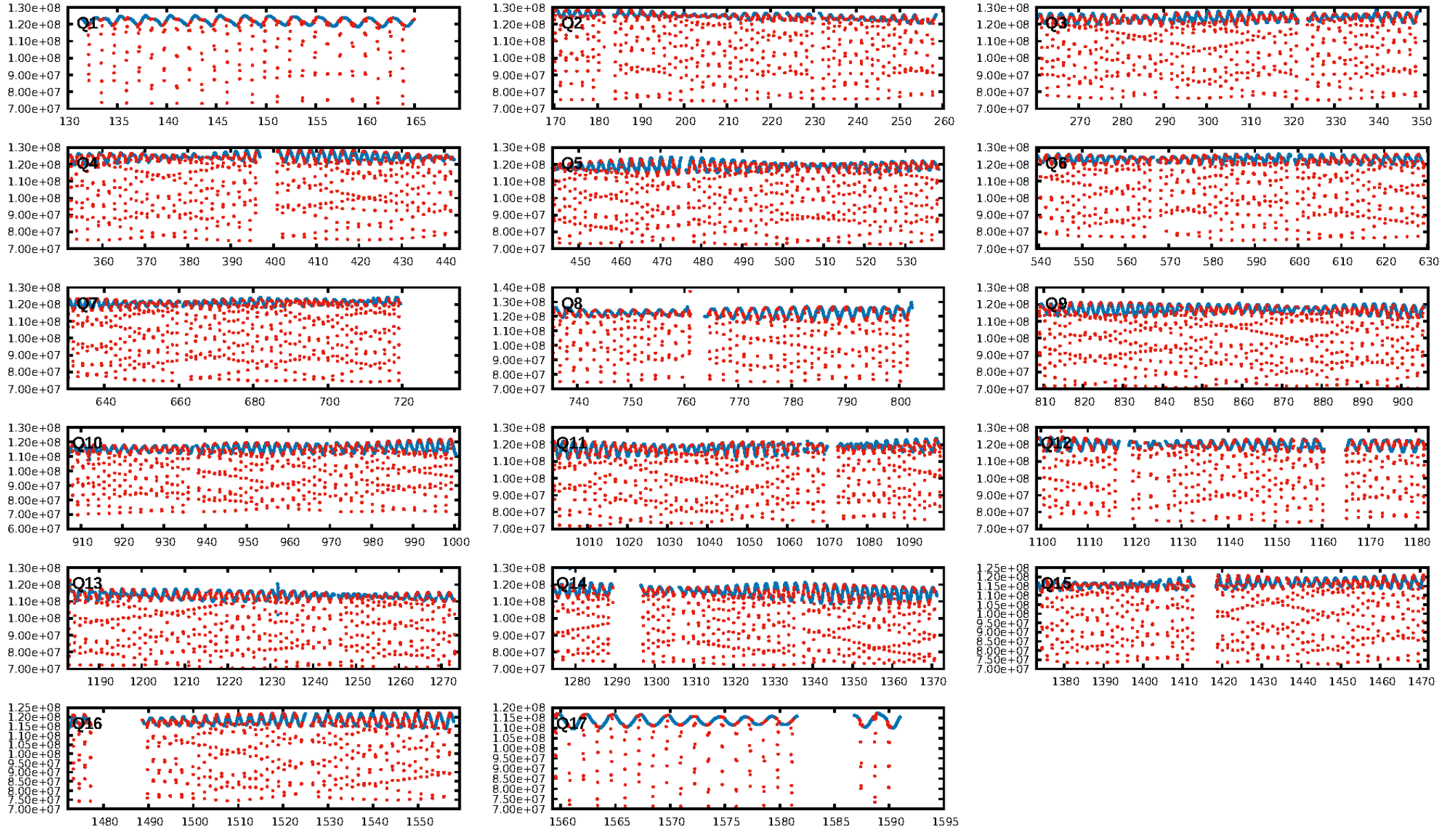
Period = 1.26769 d
Epoch = 132.1172 BKJD

DV fit results are unavailable

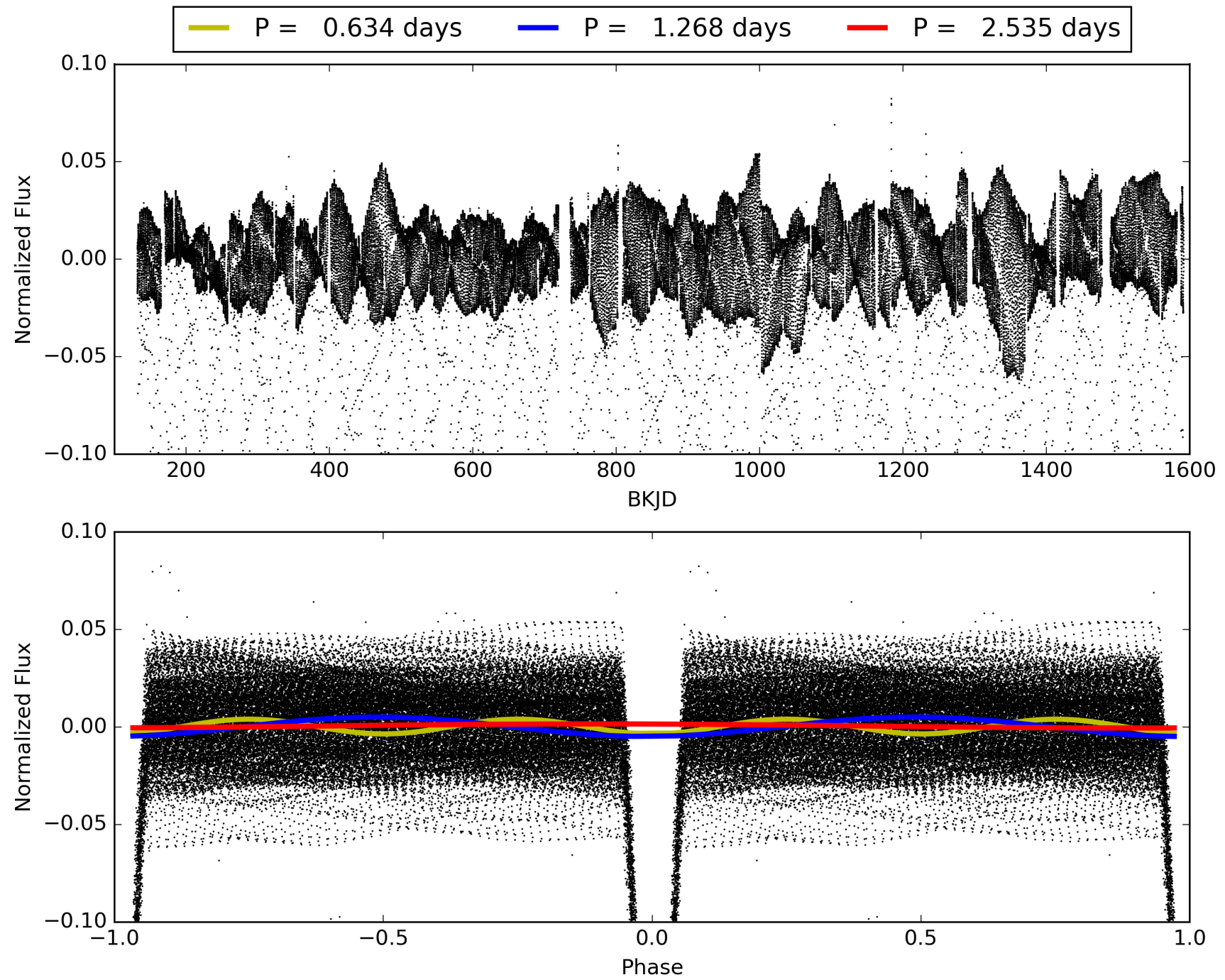
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 99.4% [2.75 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1016/1016]
GhostDiagnostic-chr: 1.26
Centroid-sig: N/A
Centroid-so: 0.143 arcsec [484.46 σ]
OotOffset-rm: 0.017 arcsec [0.25 σ]
KicOffset-rm: 0.176 arcsec [2.49 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 006706287-01, PDC Light Curves

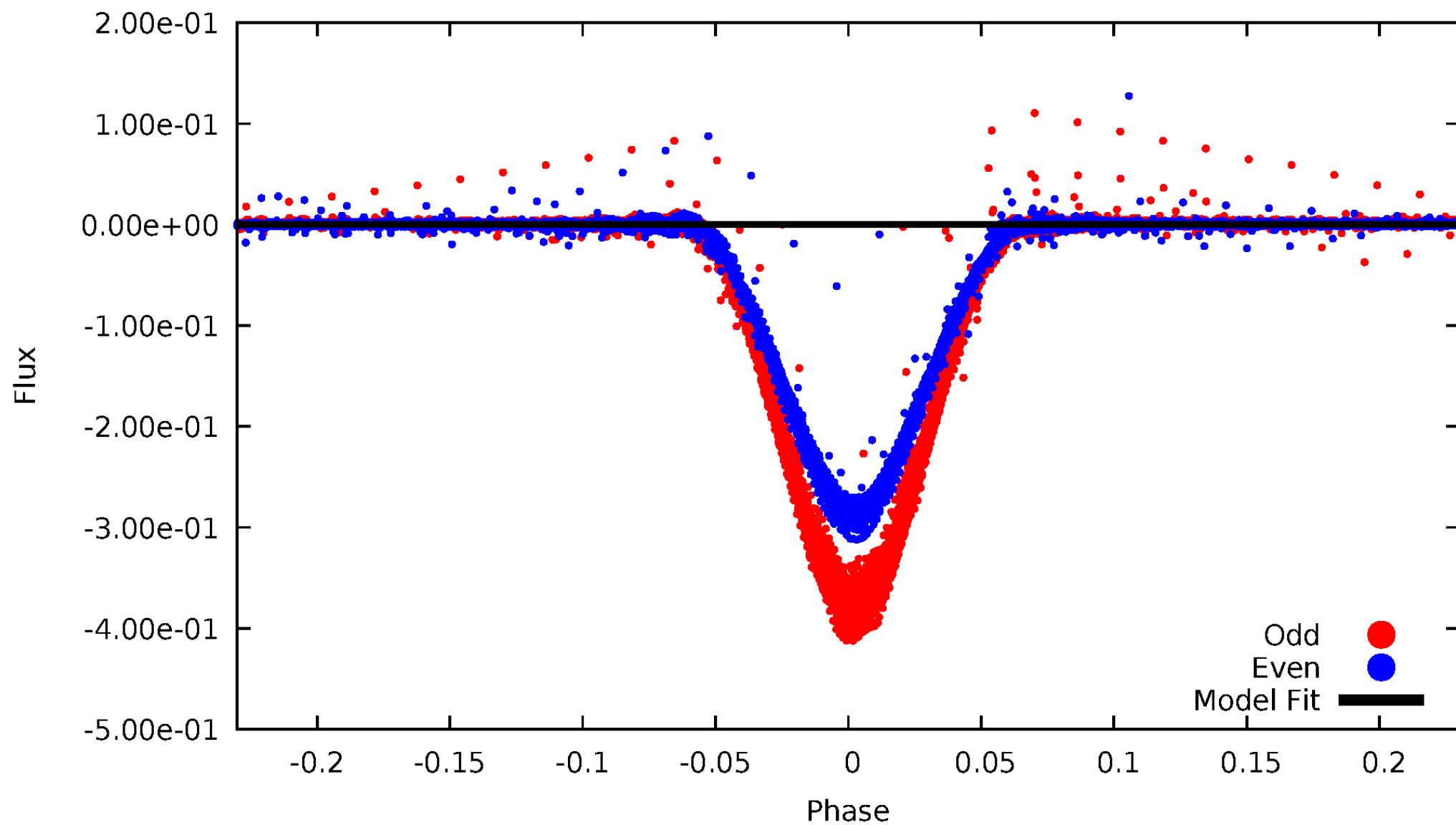


TCE 006706287-01



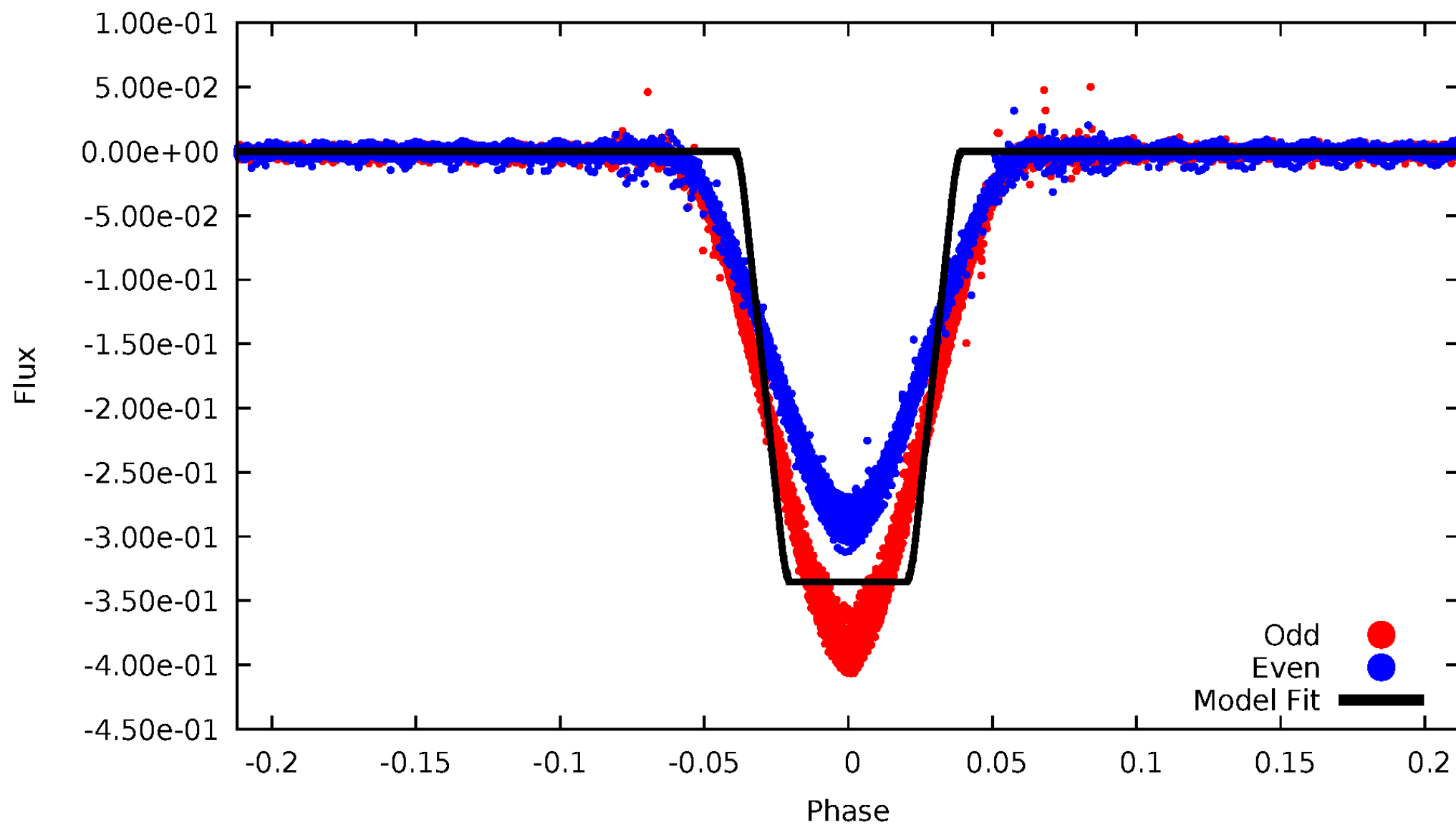
DV Odd/Even

TCE 006706287-01



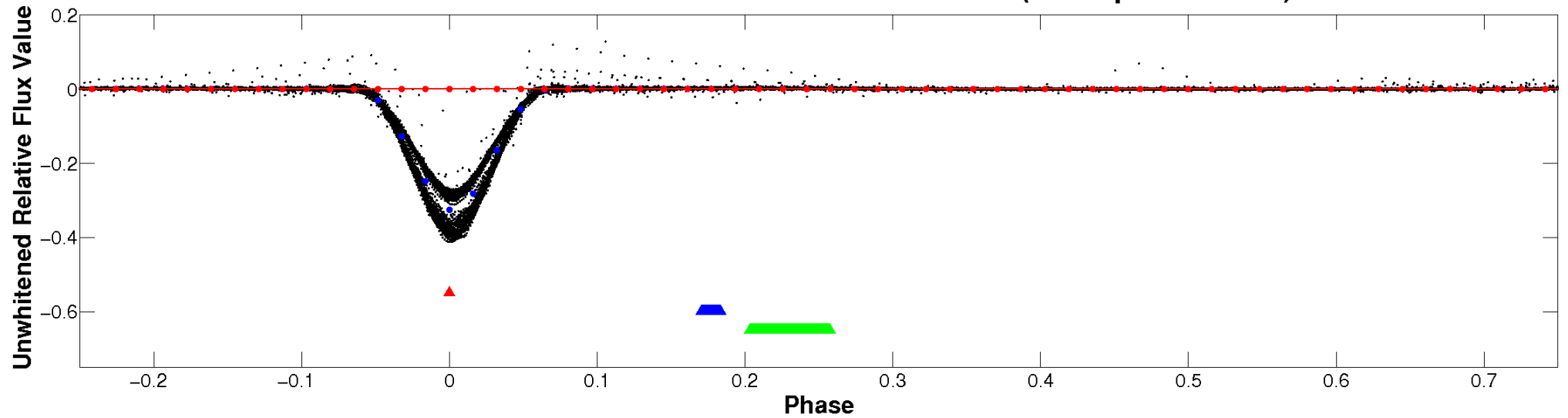
ALT Odd/Even

TCE 006706287-01



Non-Whitened Vs. Whitened Light Curve

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

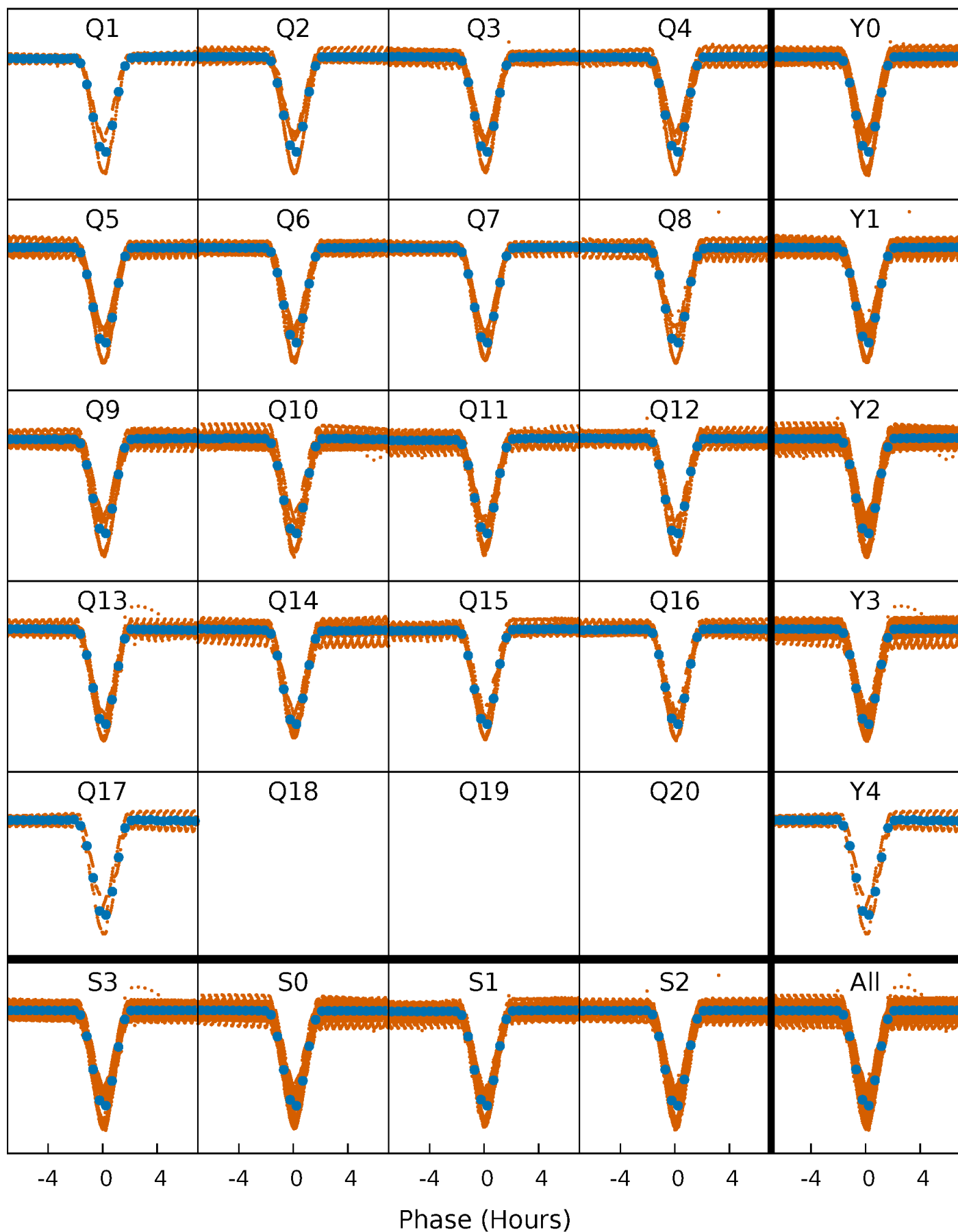


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



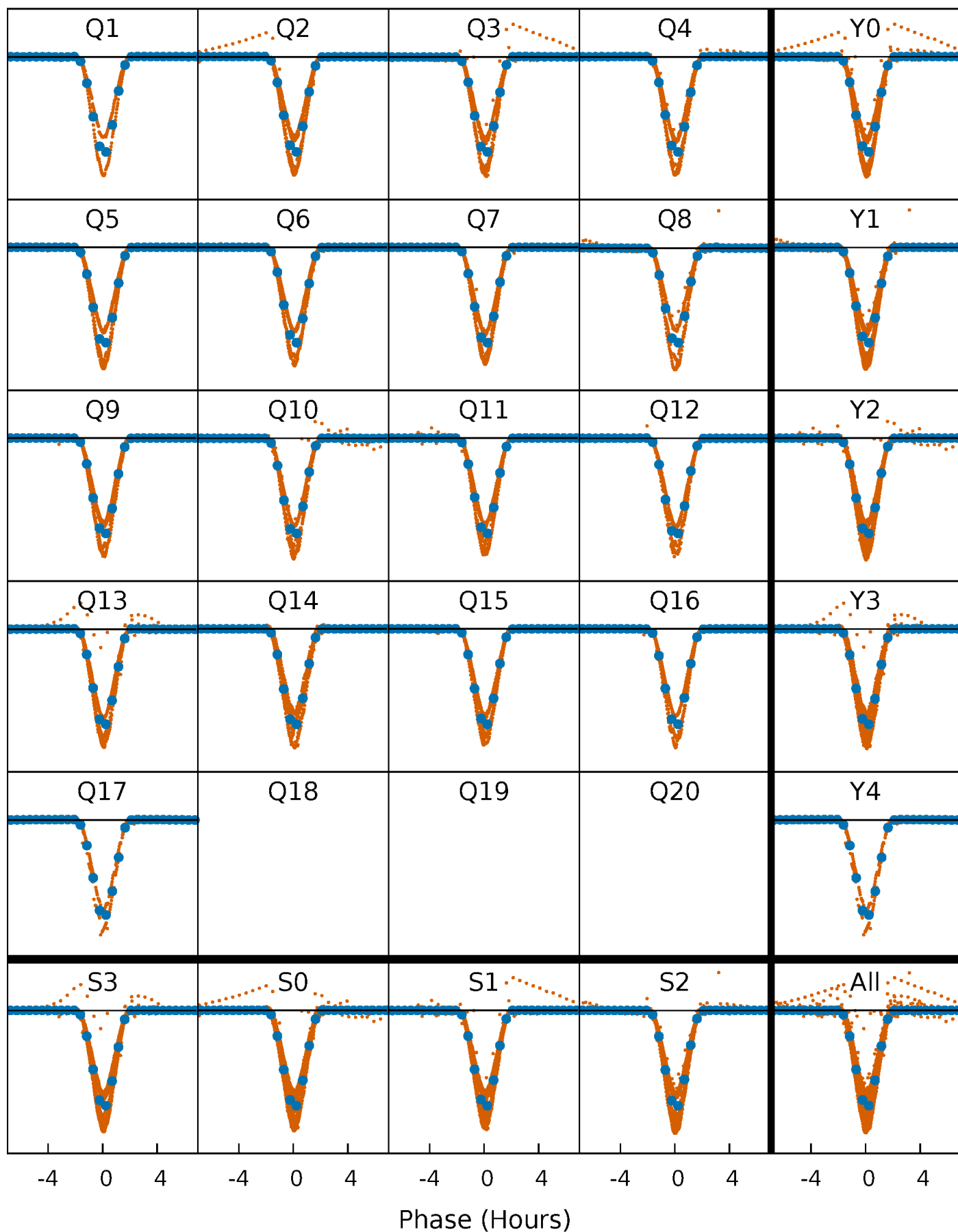
PDC Quarter-Phased Transit Curves

TCE 006706287-01 P= 1.267694 Days $T_0=132.117189$ (BKJD)



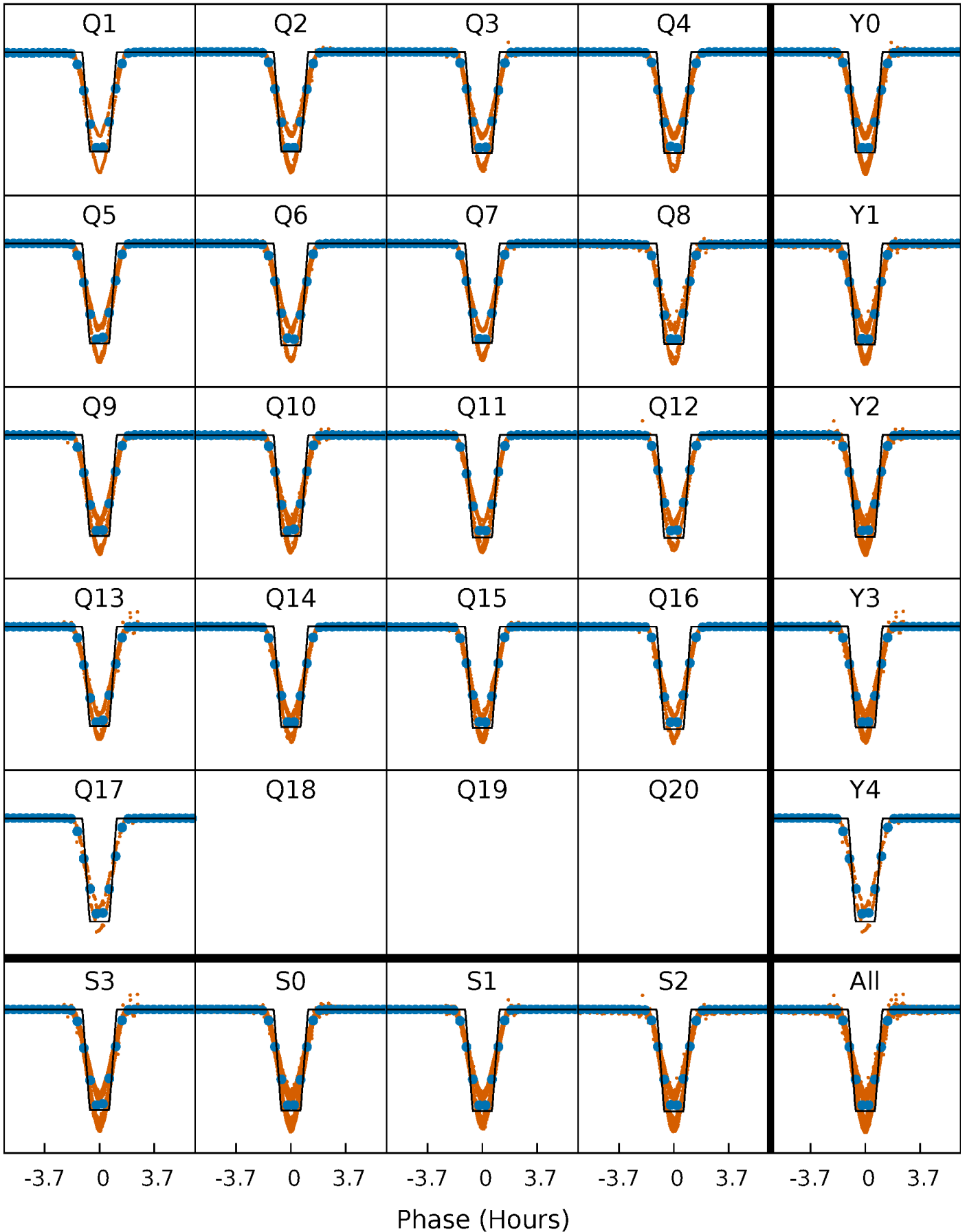
DV Quarter-Phased Transit Curves

TCE 006706287-01 P= 1.267694 Days $T_0=132.117189$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

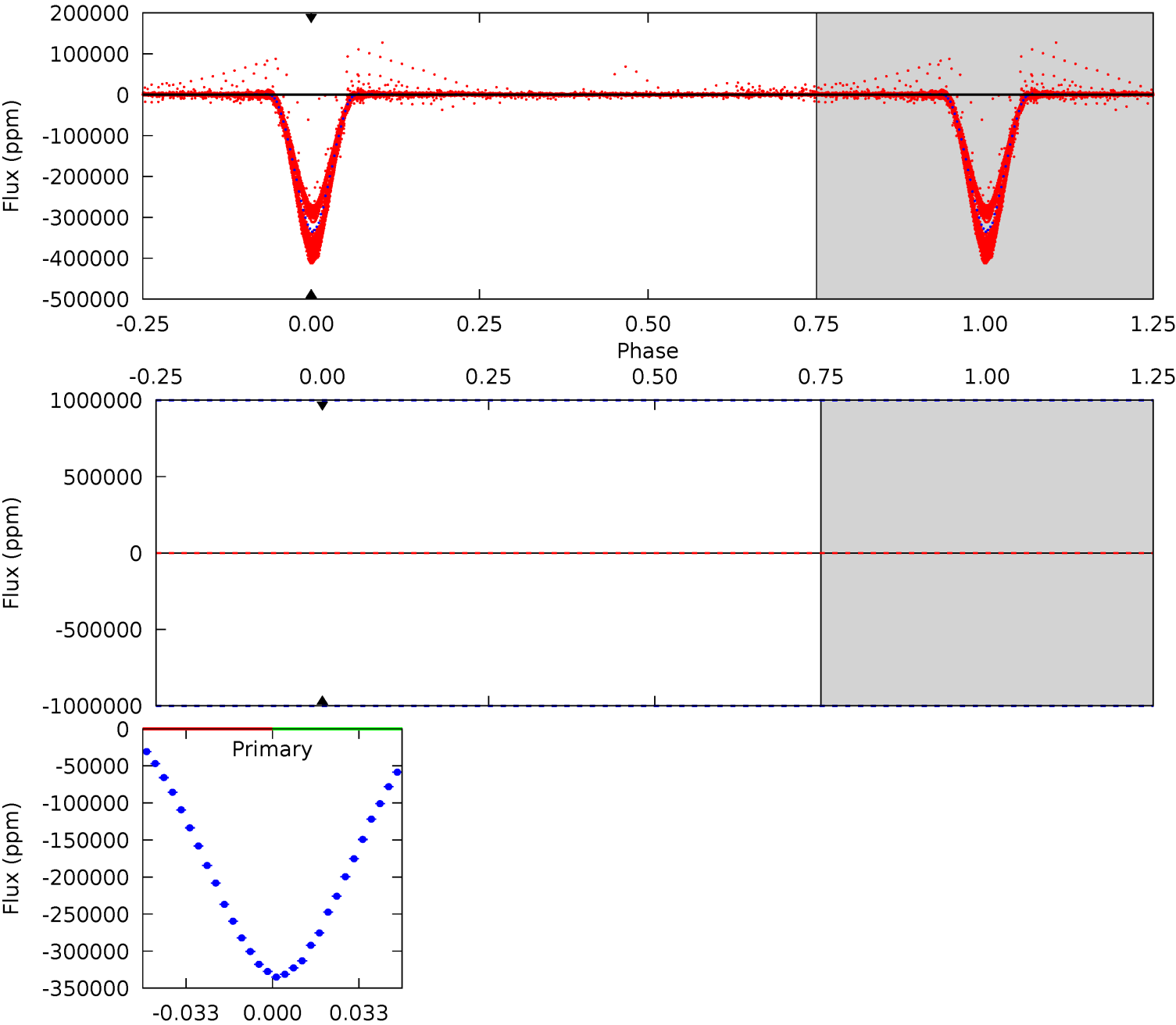
TCE 006706287-01 P= 1.267694 Days $T_0=132.120231$ (BKJD)



DV Model-Shift Uniqueness Test

006706287-01, P = 1.267694 Days, E = 130.849495 Days

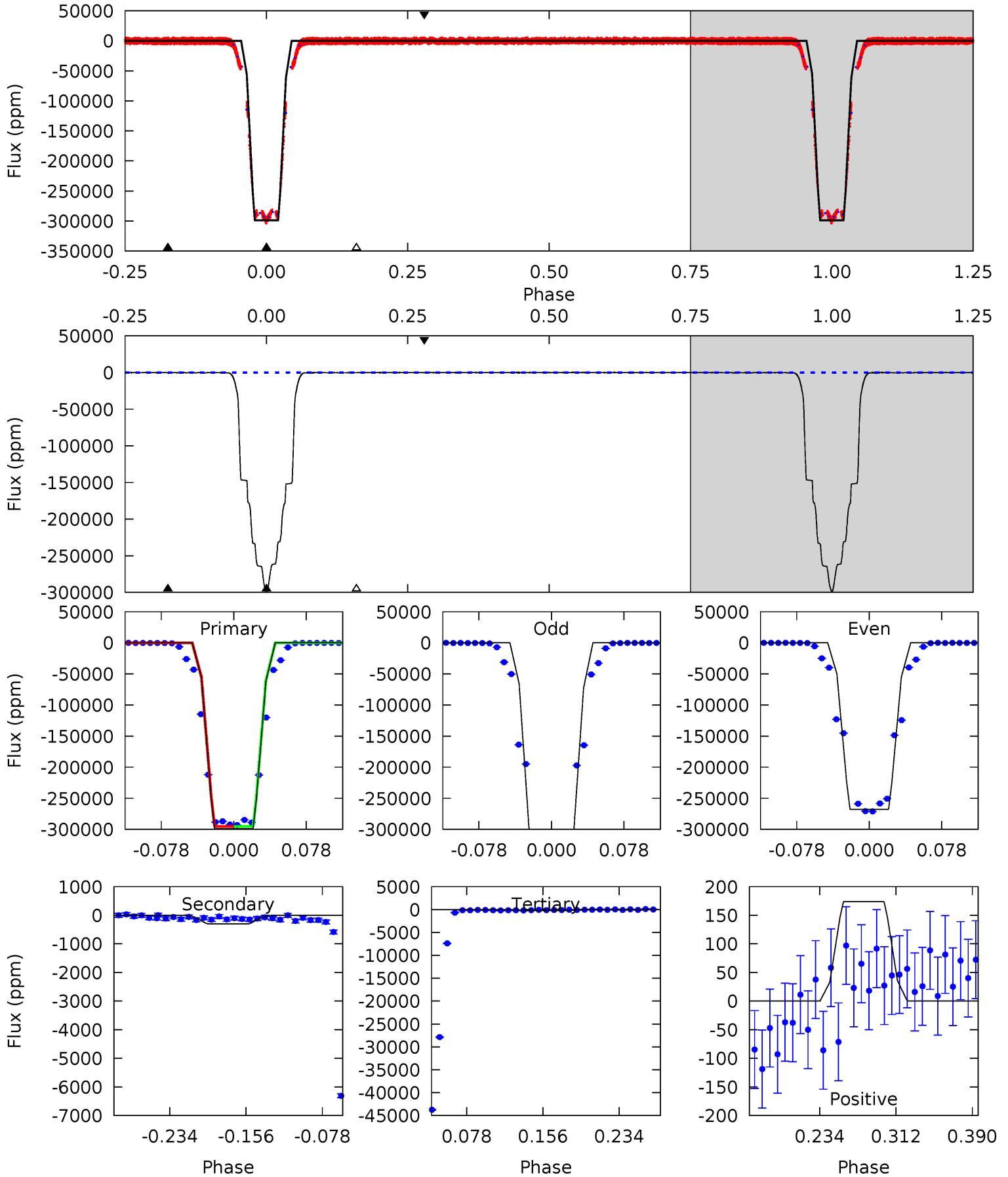
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006706287-01, P = 1.267694 Days, E = 130.852537 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4437	4.50	3.25	2.58	4.62	1.76	1.64	4434	4435	1.25	1.92	934.3	1.05	0.00	0



Stellar Parameters For KIC 006706287

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5446^{+191}_{-172}	$4.388^{+0.162}_{-0.198}$	$-0.080^{+0.300}_{-0.300}$	$0.961^{+0.260}_{-0.173}$	$0.825^{+0.131}_{-0.060}$	$1.309^{+0.983}_{-0.642}$
	+4%/-3%	+4%/-5%	+375%/-375%	+27%/-18%	+16%/-7%	+75%/-49%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006706287-01 / KOI 6761.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$23.88^{+12.37}_{-10.47}$	2268^{+175}_{-158}	-3209^{+10066}_{-3509}	$-0.954^{+57.302}_{-55.022}$
Alt.	-303 ± 67	$60.72^{+14.59}_{-11.32}$	2254^{+193}_{-143}	-2613^{+90}_{-125}	$0.021^{+0.012}_{-0.008}$

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 $A_{obs} \gg 1.0$

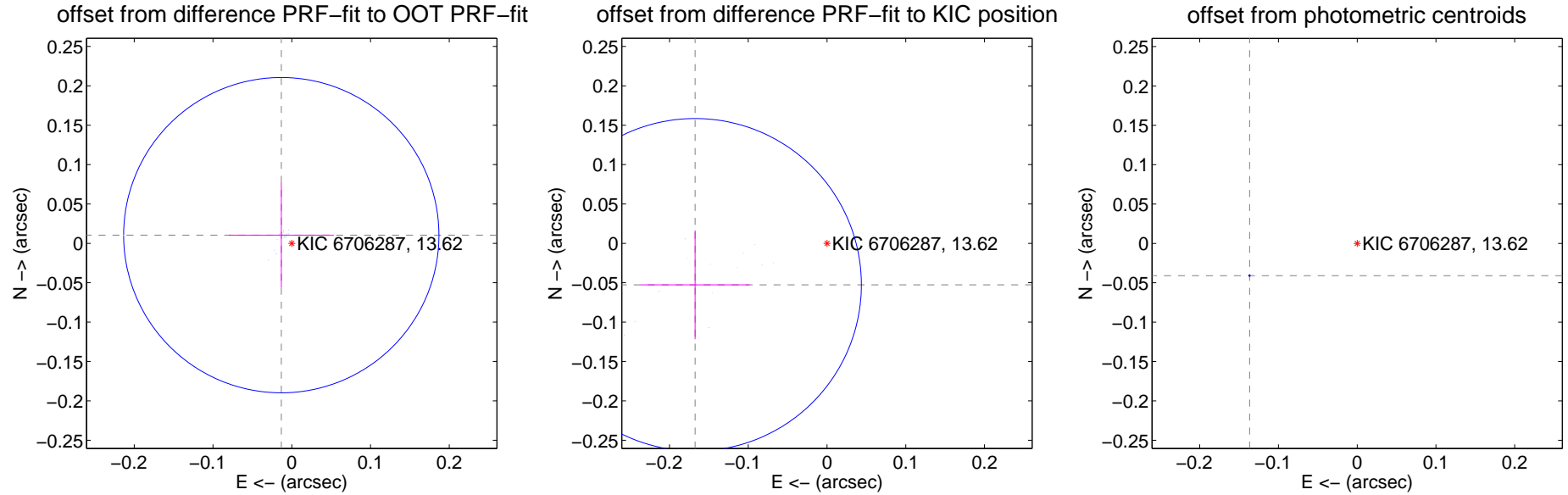
DV Centroid Data

Supplemental centroid analysis for 006706287-01. Kepler magnitude: 13.62. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

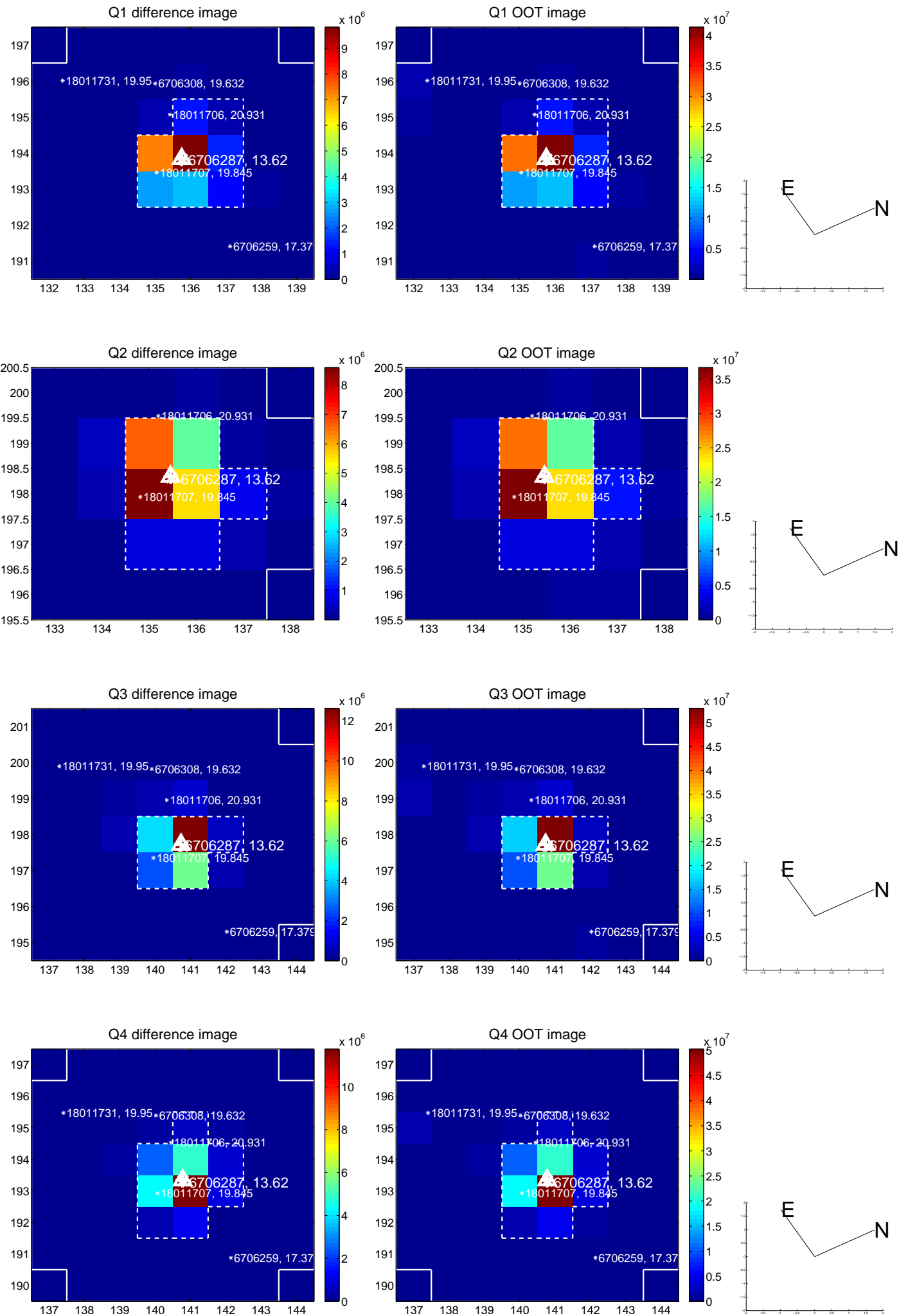
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.017 ± 0.067	0.25	0.013 ± 0.067	0.010 ± 0.067
PRF-fit source offset from KIC position	0.176 ± 0.070	2.49	0.167 ± 0.069	-0.053 ± 0.069
photometric centroid source offset	0.14 ± 0.00	484.46	0.14 ± 0.00	-0.04 ± 0.00

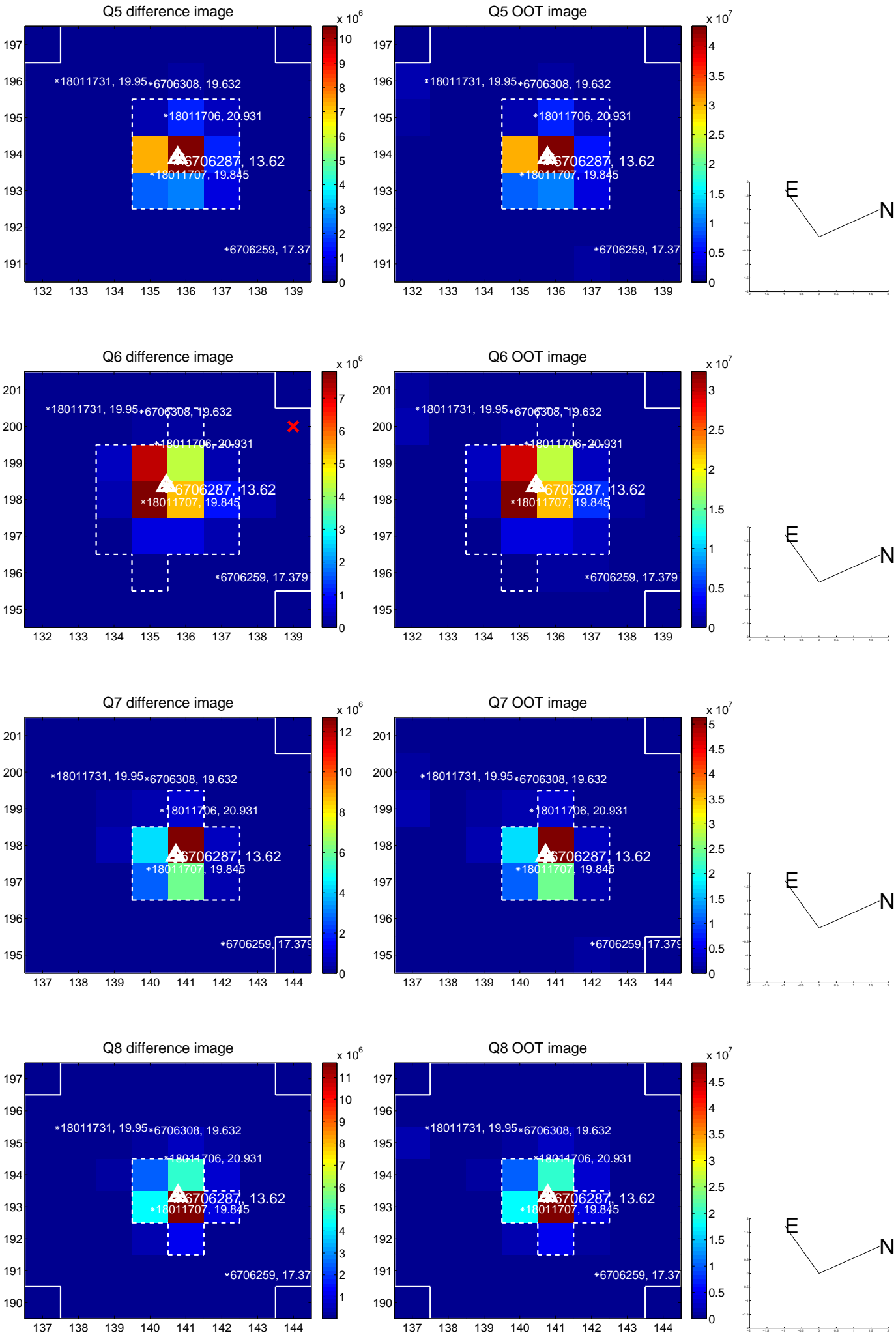


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

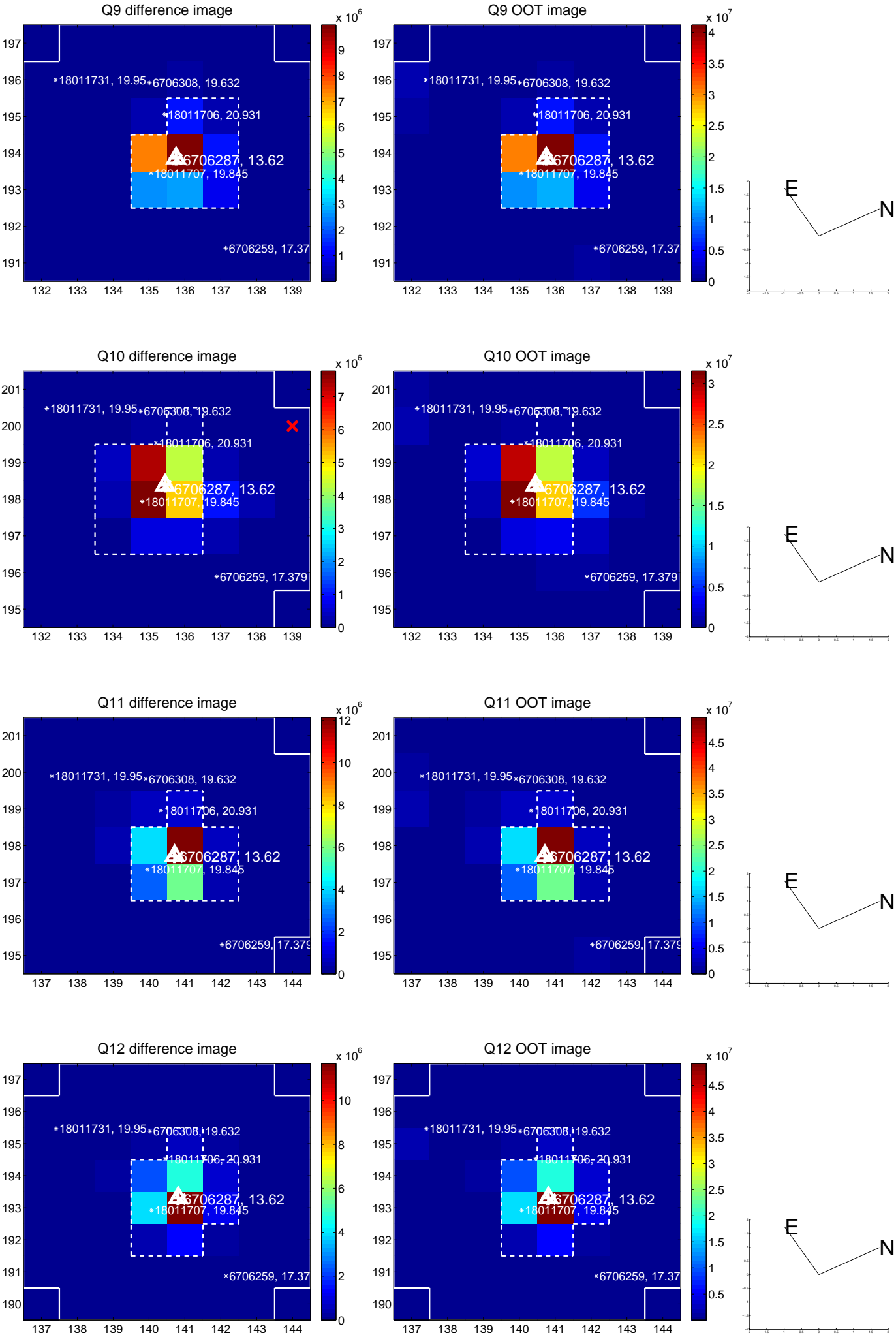
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



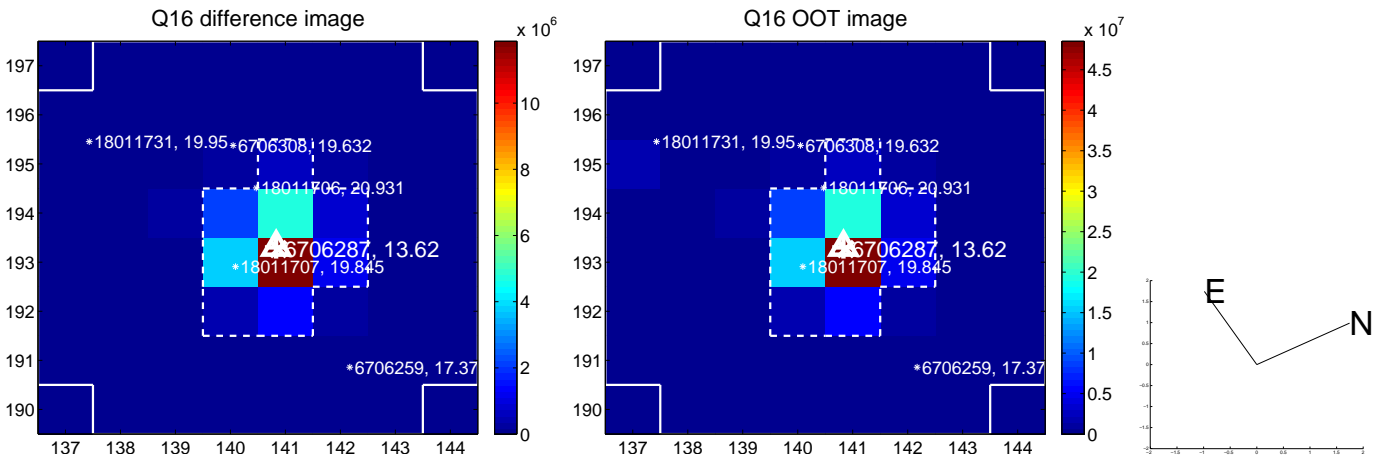
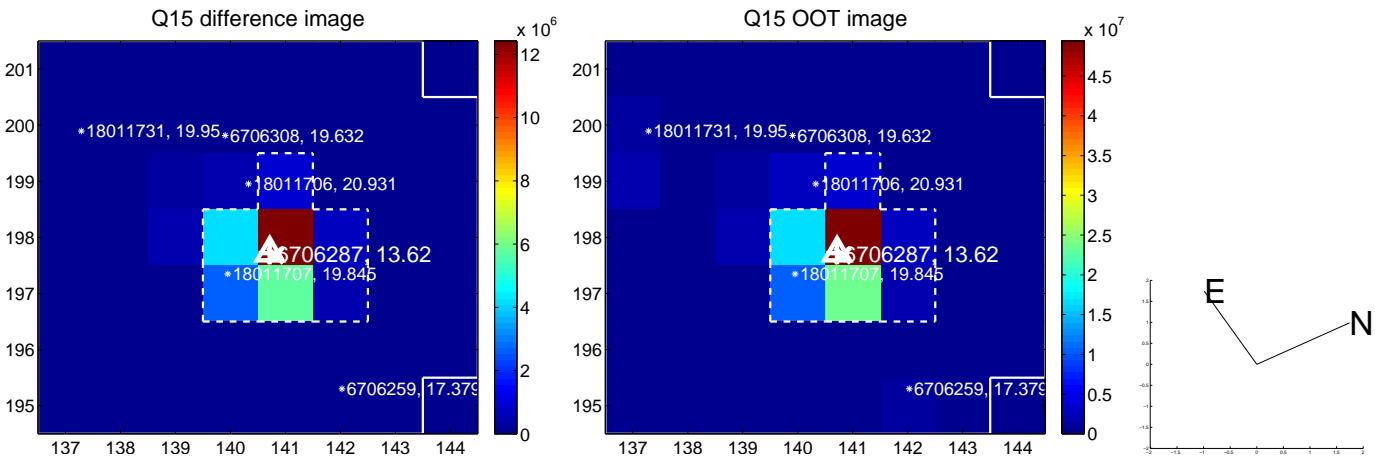
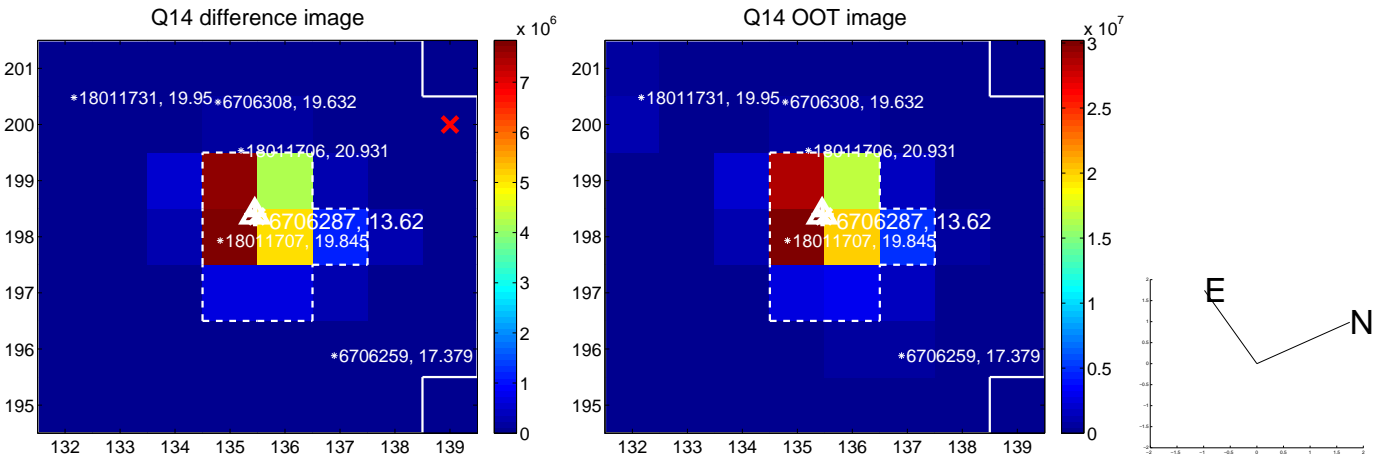
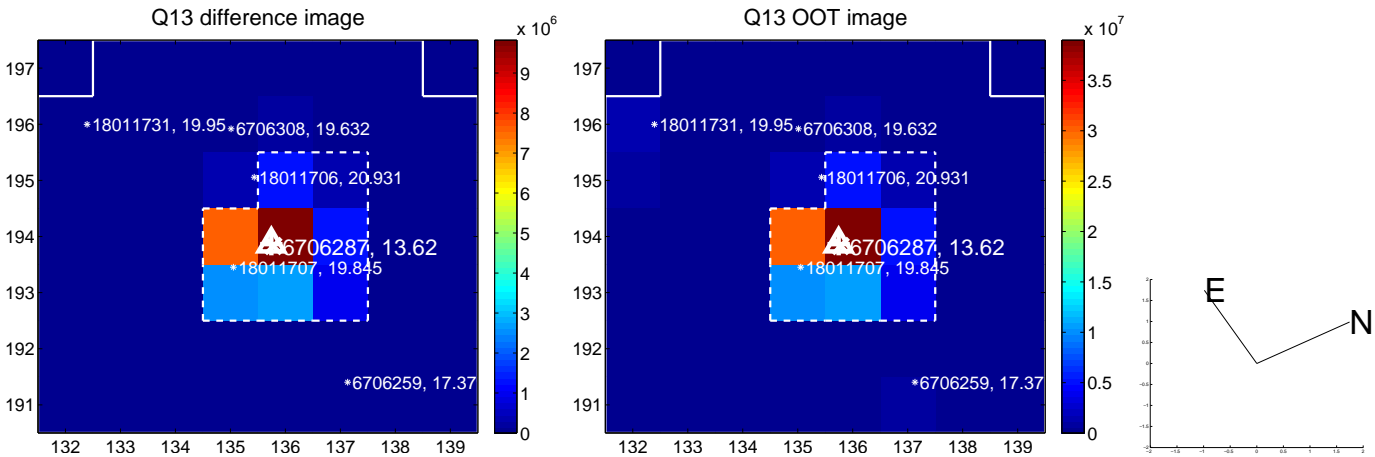
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



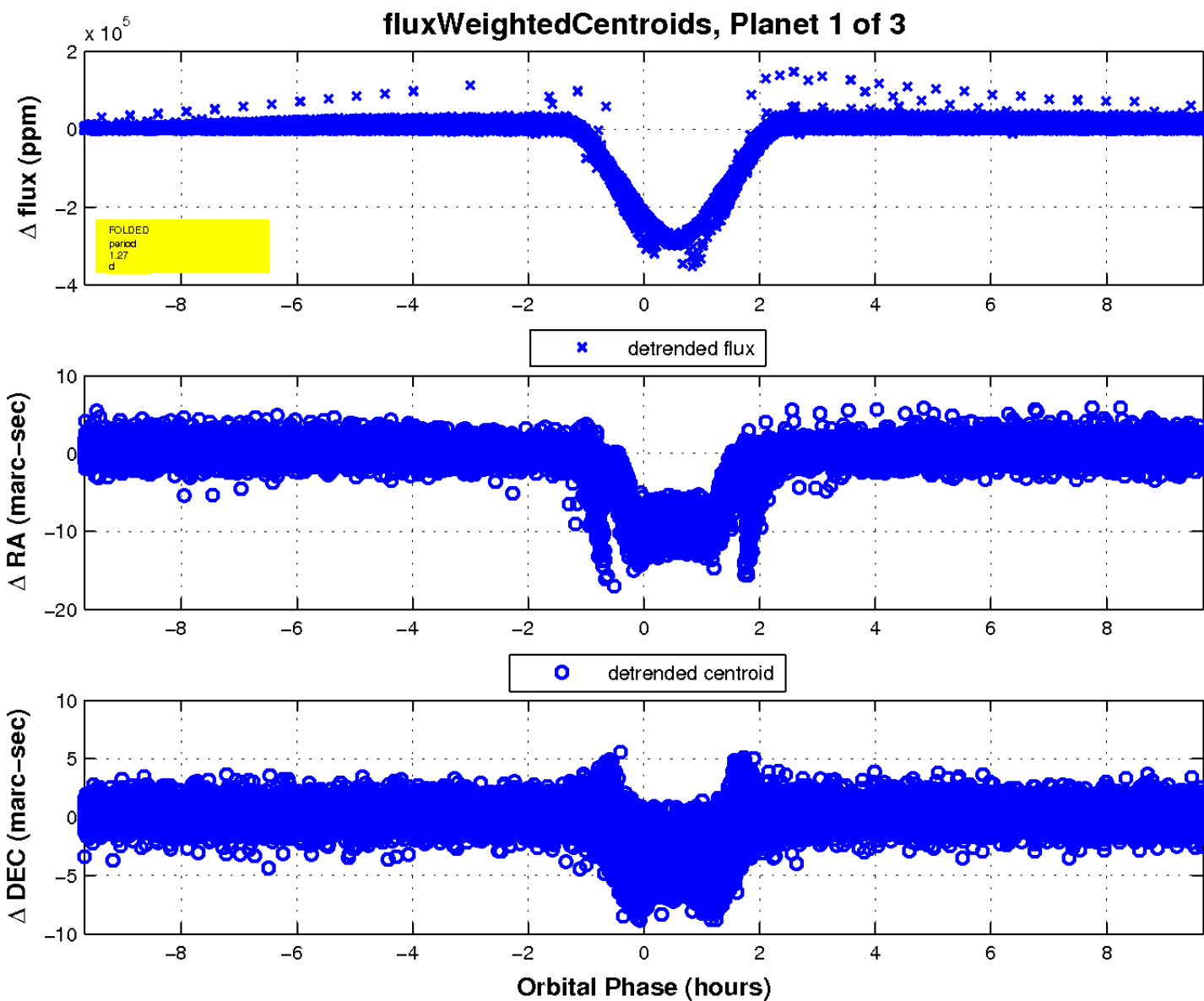
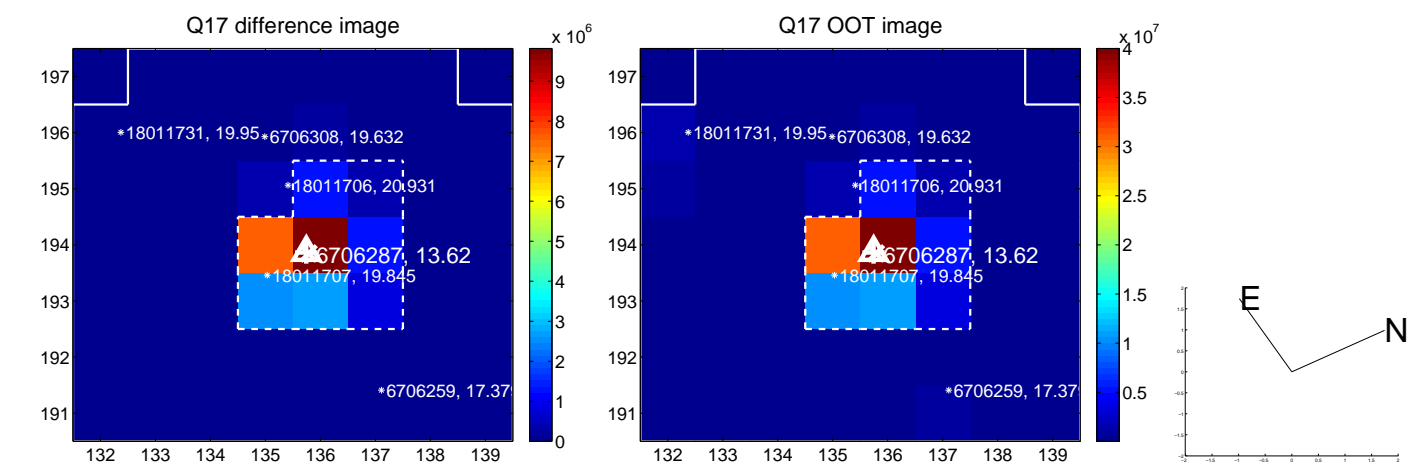
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



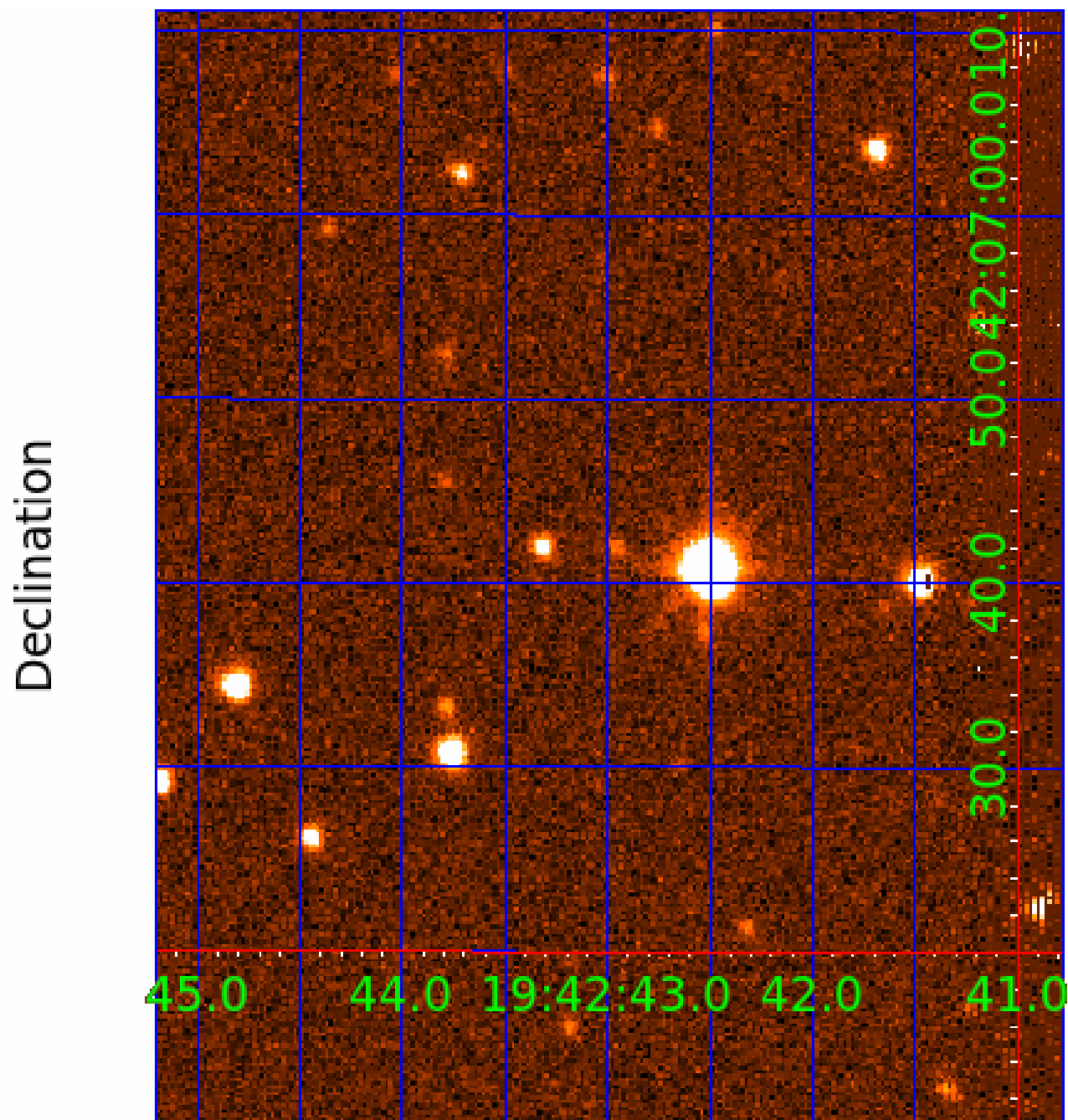
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 006706287

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})
006706287-01	OBS	6761.01	1.267694	132.117189	331474.5	3.500	15106.5	-1.0	0.96	5446	23.31	1576.40
006706287-02	OBS	No	5.070719	136.152870	26247.5	33.062	6079.2	149.0	0.96	5446	15.29	248.27
006706287-03	OBS	No	5.071015	133.642718	3297.9	17.968	771.4	52.8	0.96	5446	5.48	248.25

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006706287-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_DV—DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_ALT—HAS_SEC_TCE—CENT_NOFITS
006706287-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—RESIDUAL_TCE
006706287-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—RESIDUAL_TCE

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.

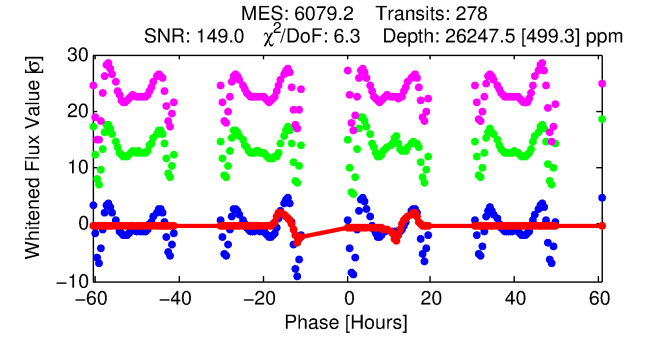
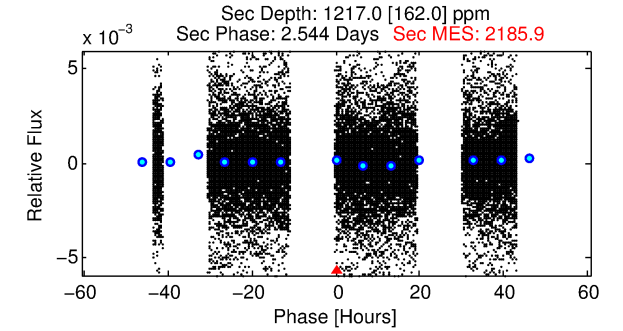
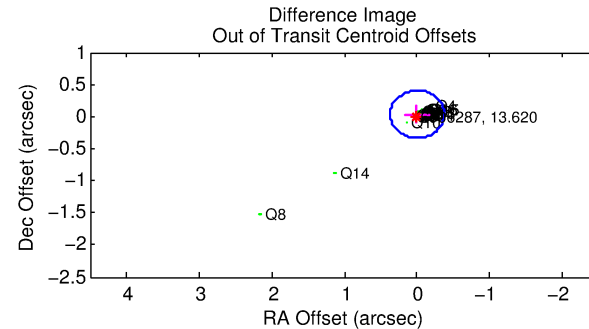
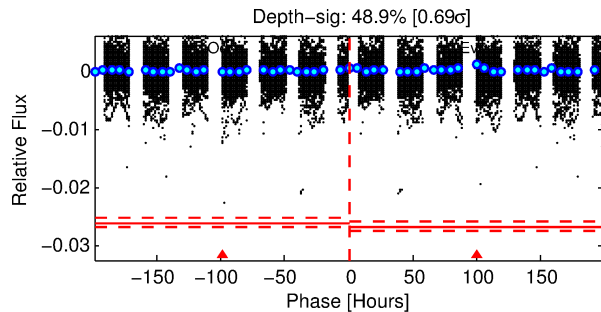
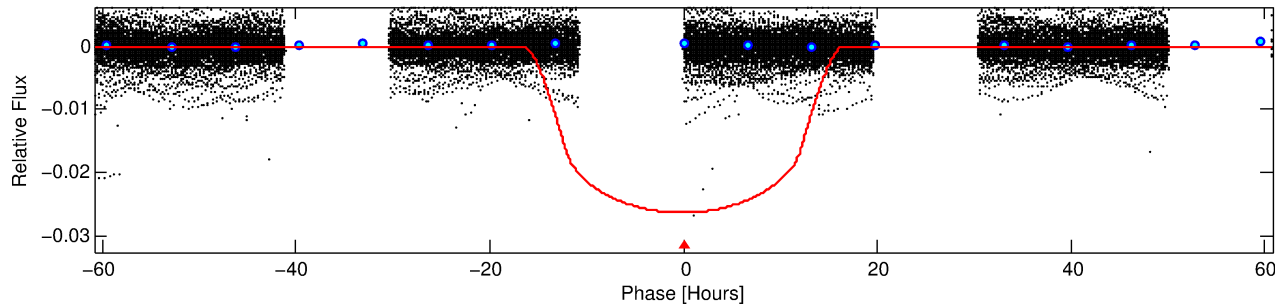
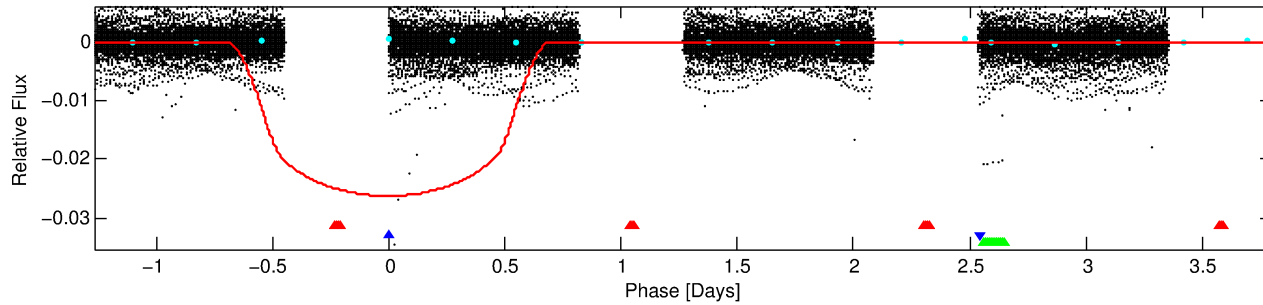
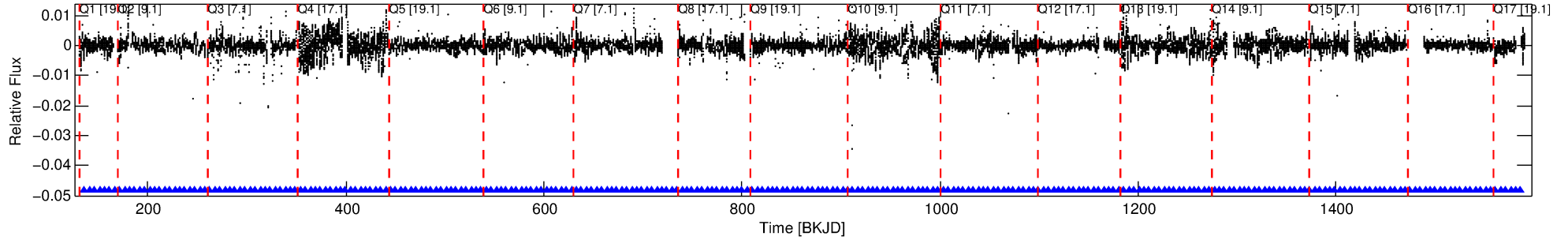
Ephemeris Match Information For 006706287-02

No Significant Match Found

DV One-Page Summary

KIC: 6706287 Candidate: 2 of 3 Period: 5.071 d
KOI: K06761 Corr: No Ephemeris Match

Kp: 13.62 R*: 0.96 Rs Teff: 5446.0 K Logg: 4.39 Fe/H: -0.080



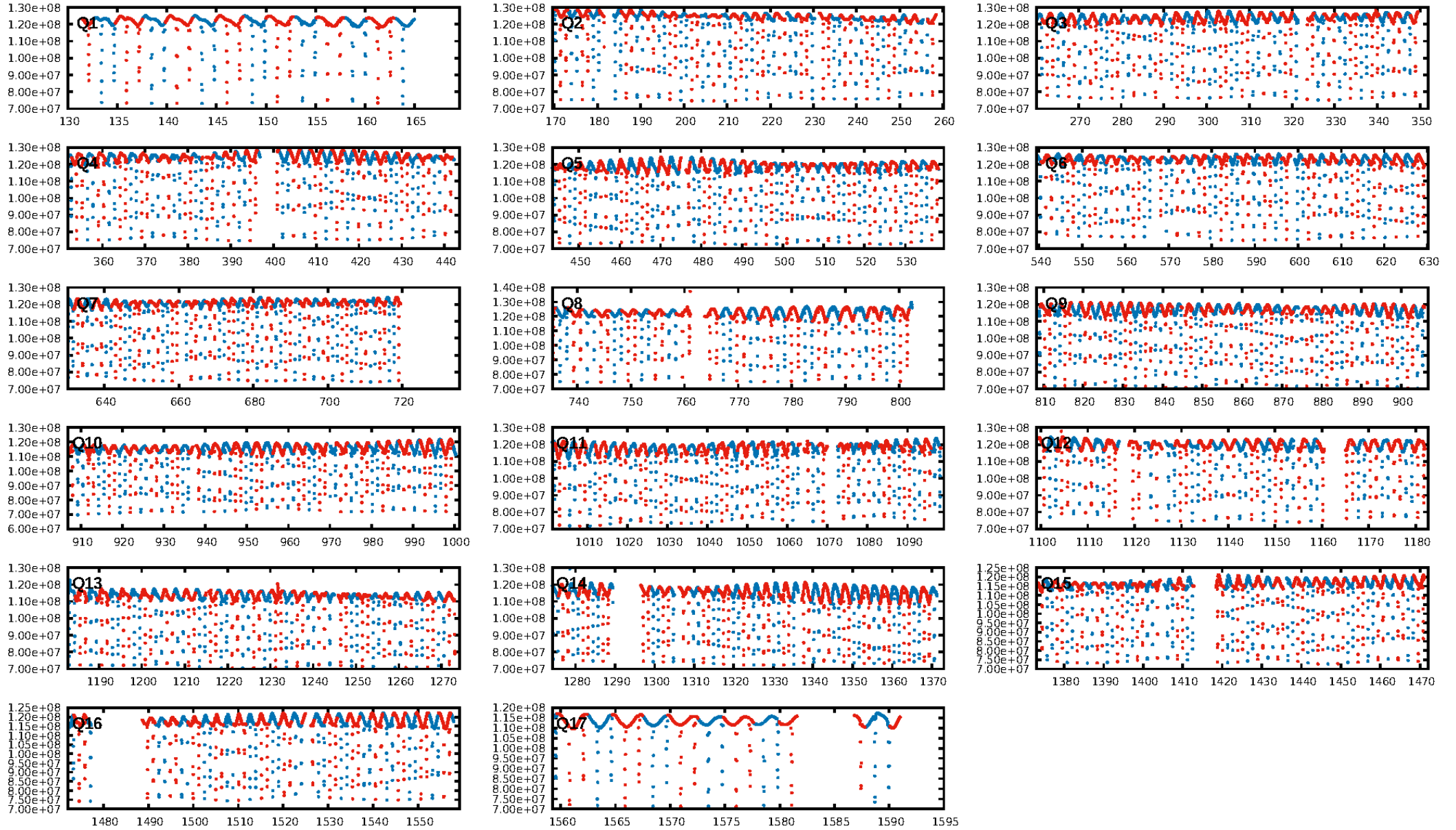
DV Fit Results:

Period = 5.07072 [0.00001] d
Epoch = 136.1529 [0.0016] BKJD
Rp/R* = 0.1458 [0.0013]
a/R* = 1.52 [0.00]
b = 0.00 [1.72]
Seff = 248.27 [94.41]
Teff = 1012 [96] K
Rp = 15.29 [4.14] Re
a = 0.0541 [0.0128] AU
Ag = 8.39 [3.17] [2.33σ]
Teffp = 2664 [129] K [10.24σ]

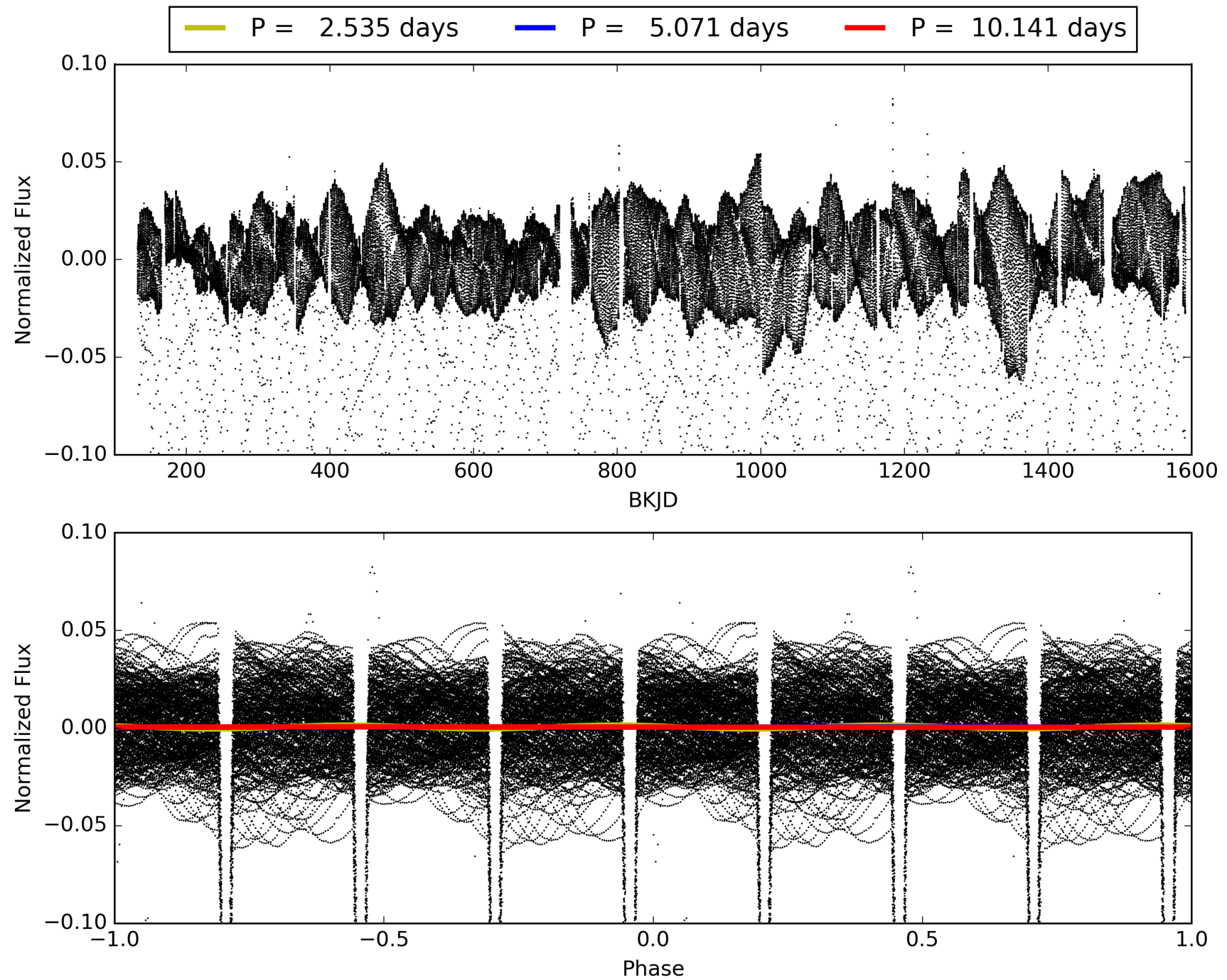
DV Diagnostic Results:

ShortPeriod-sig: 99.4% [2.75σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [264/264]
GhostDiagnostic-chr: 6.049
Centroid-sig: N/A
Centroid-so: 0.127 arcsec [102.98σ]
OotOffset-rm: 0.036 arcsec [0.29σ]
KicOffset-rm: 0.186 arcsec [1.13σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.94 [16/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 006706287-02, PDC Light Curves

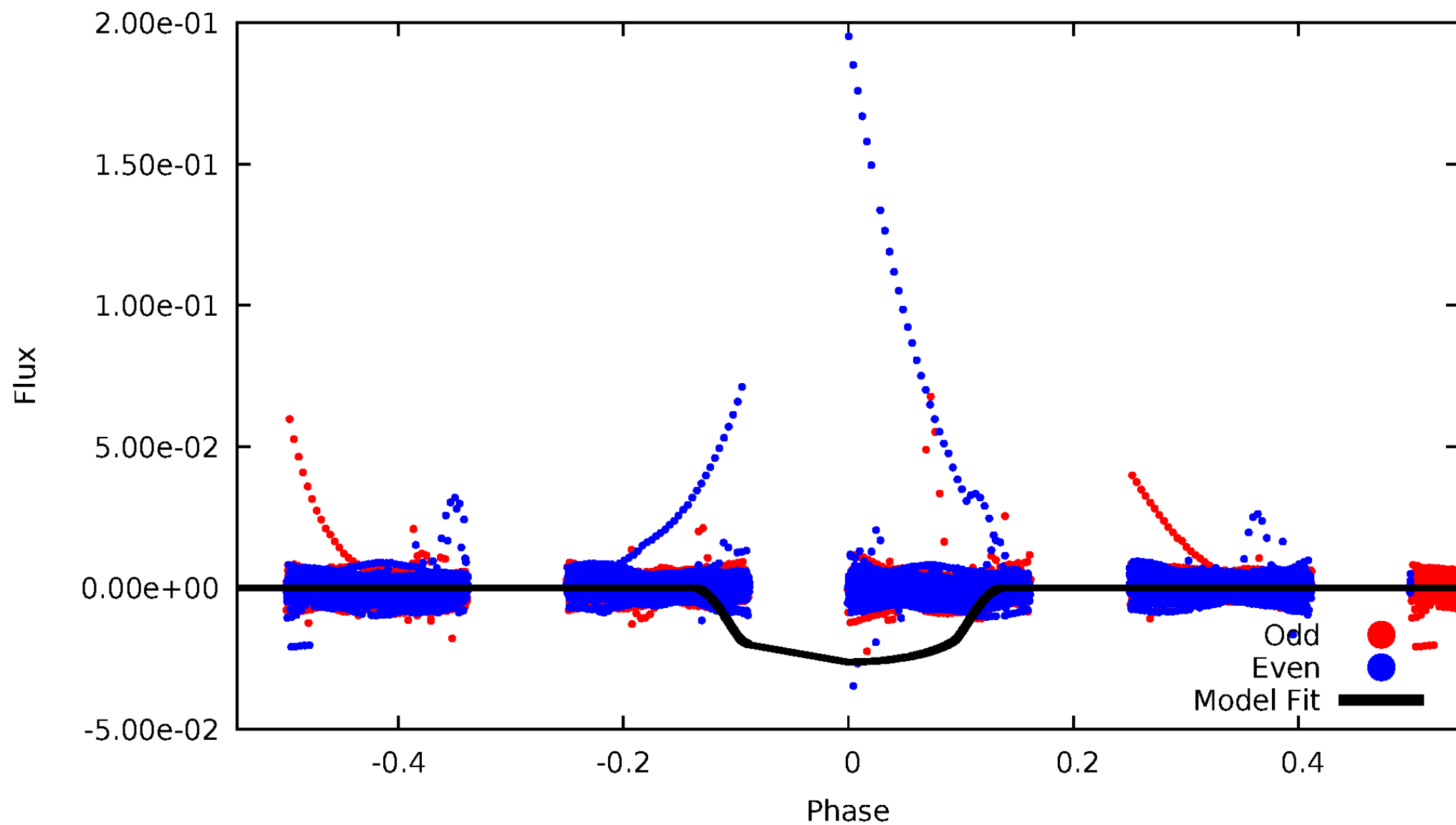


TCE 006706287-02



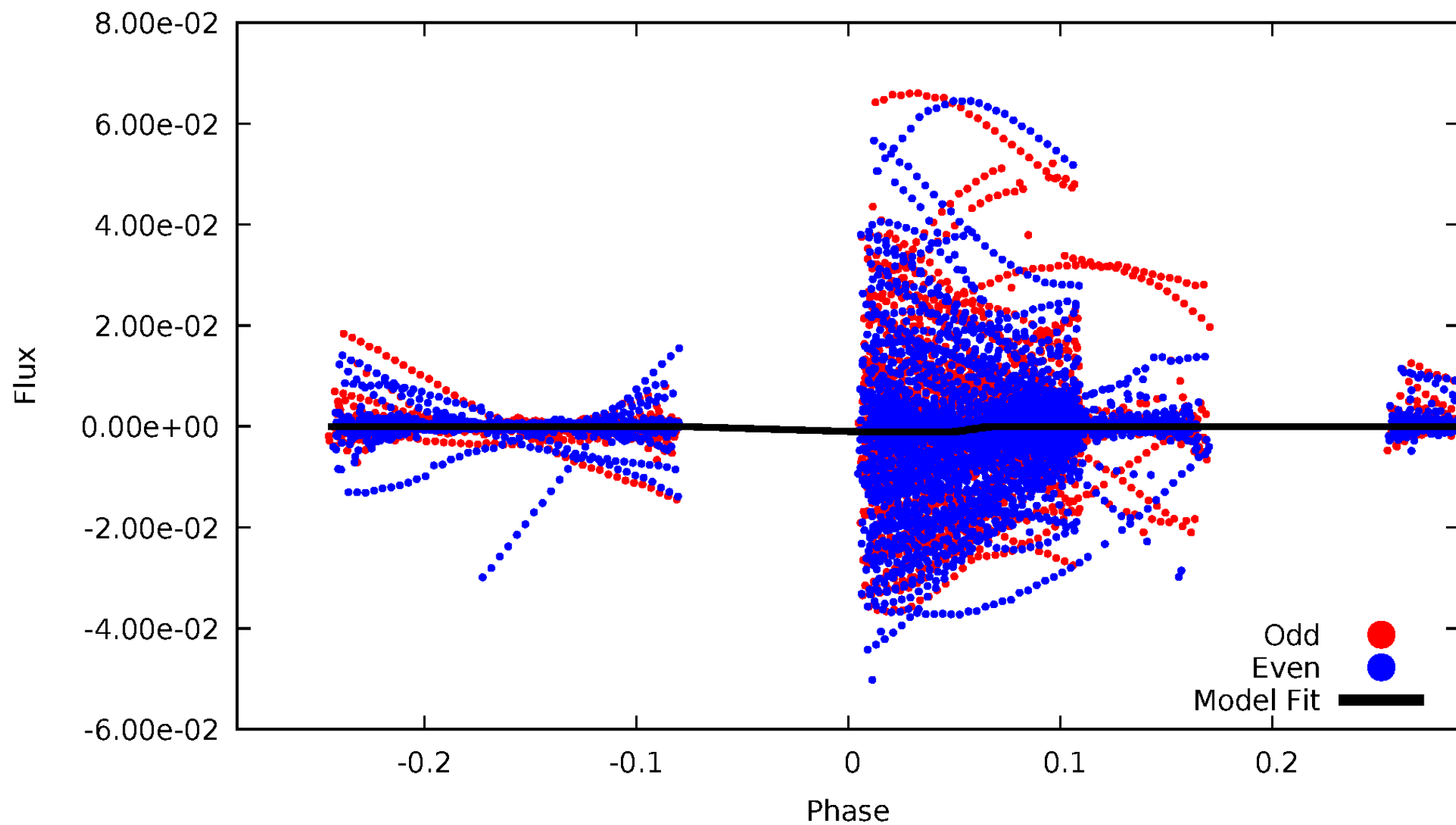
DV Odd/Even

TCE 006706287-02



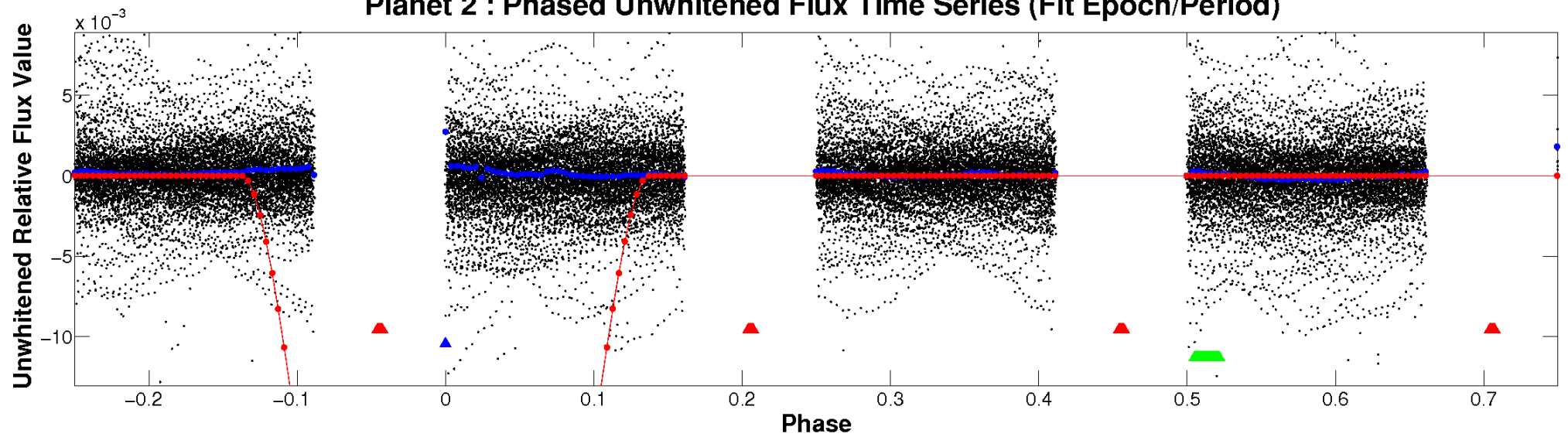
ALT Odd/Even

TCE 006706287-02

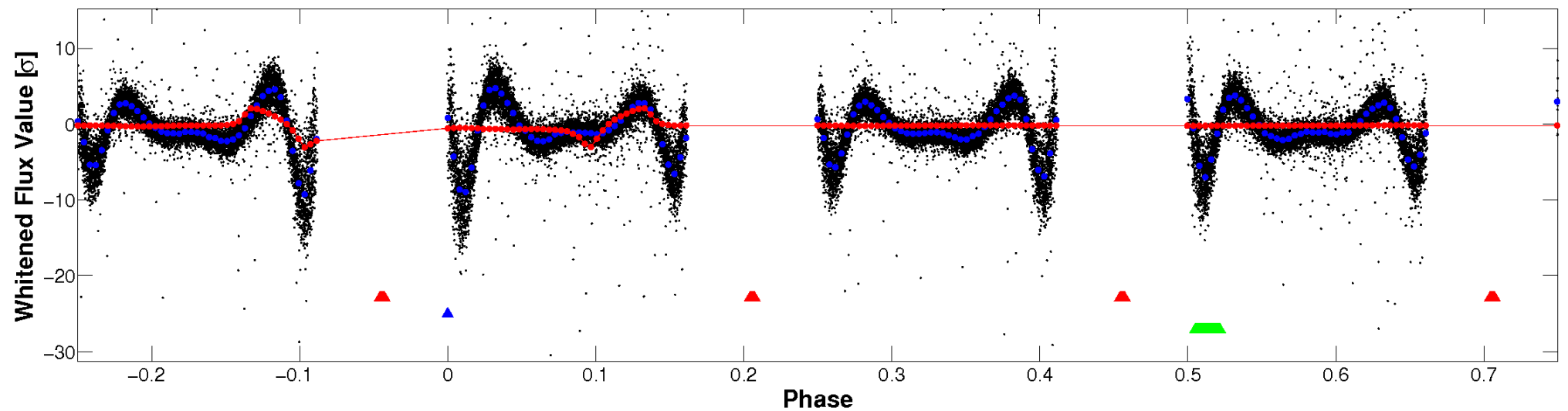


Non-Whitened Vs. Whitened Light Curve

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

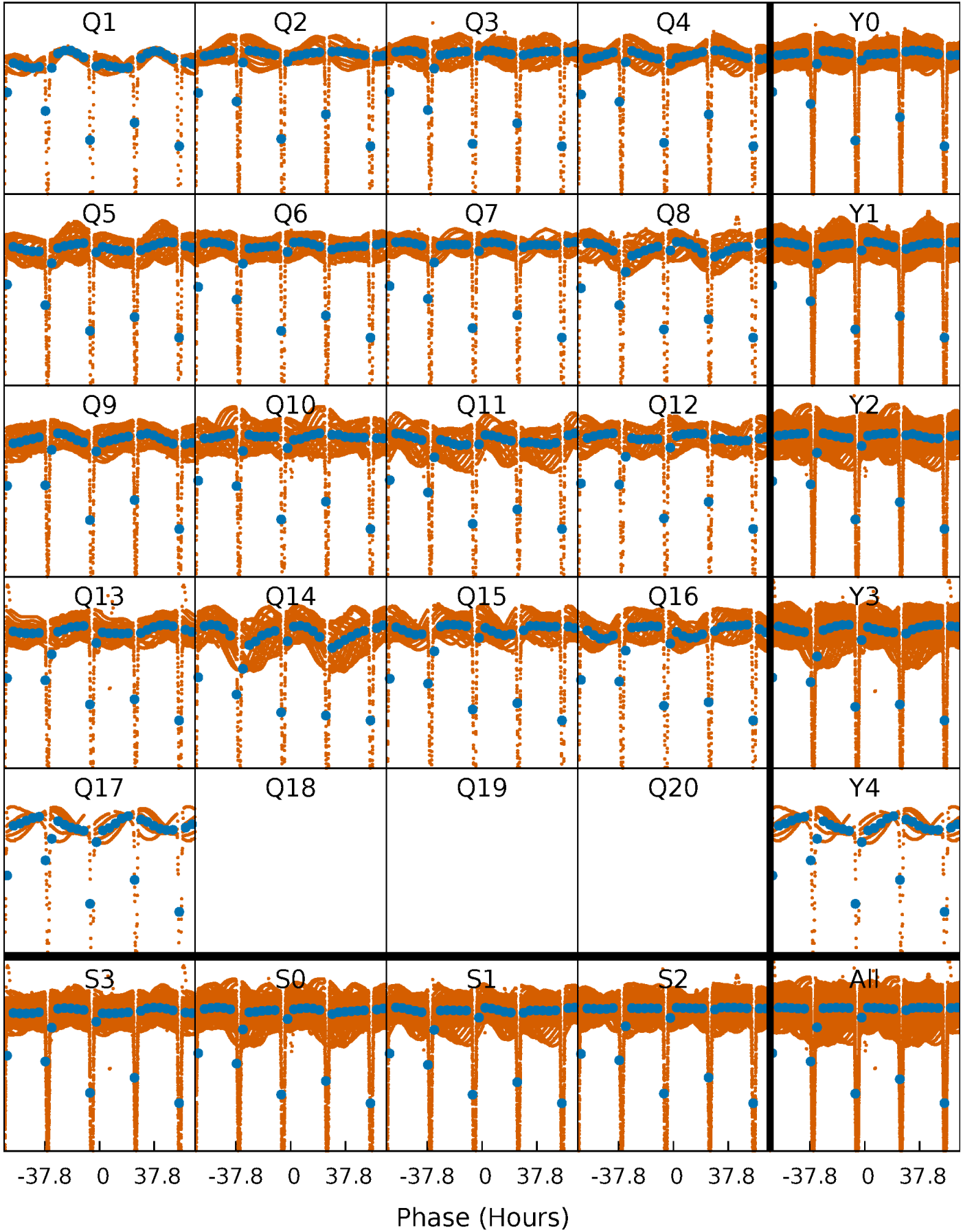


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



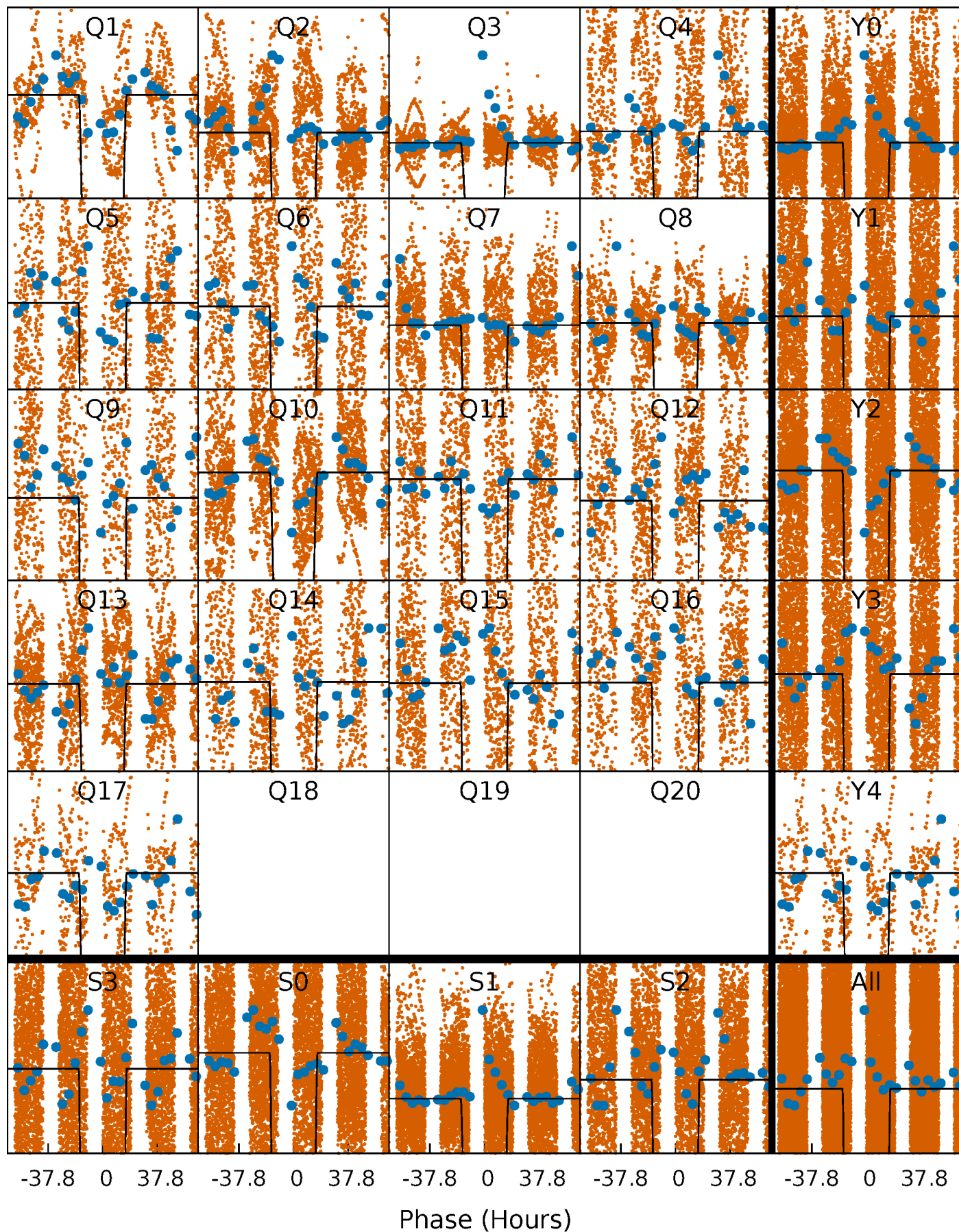
PDC Quarter-Phased Transit Curves

TCE 006706287-02 P= 5.070719 Days $T_0=136.152870$ (BKJD)



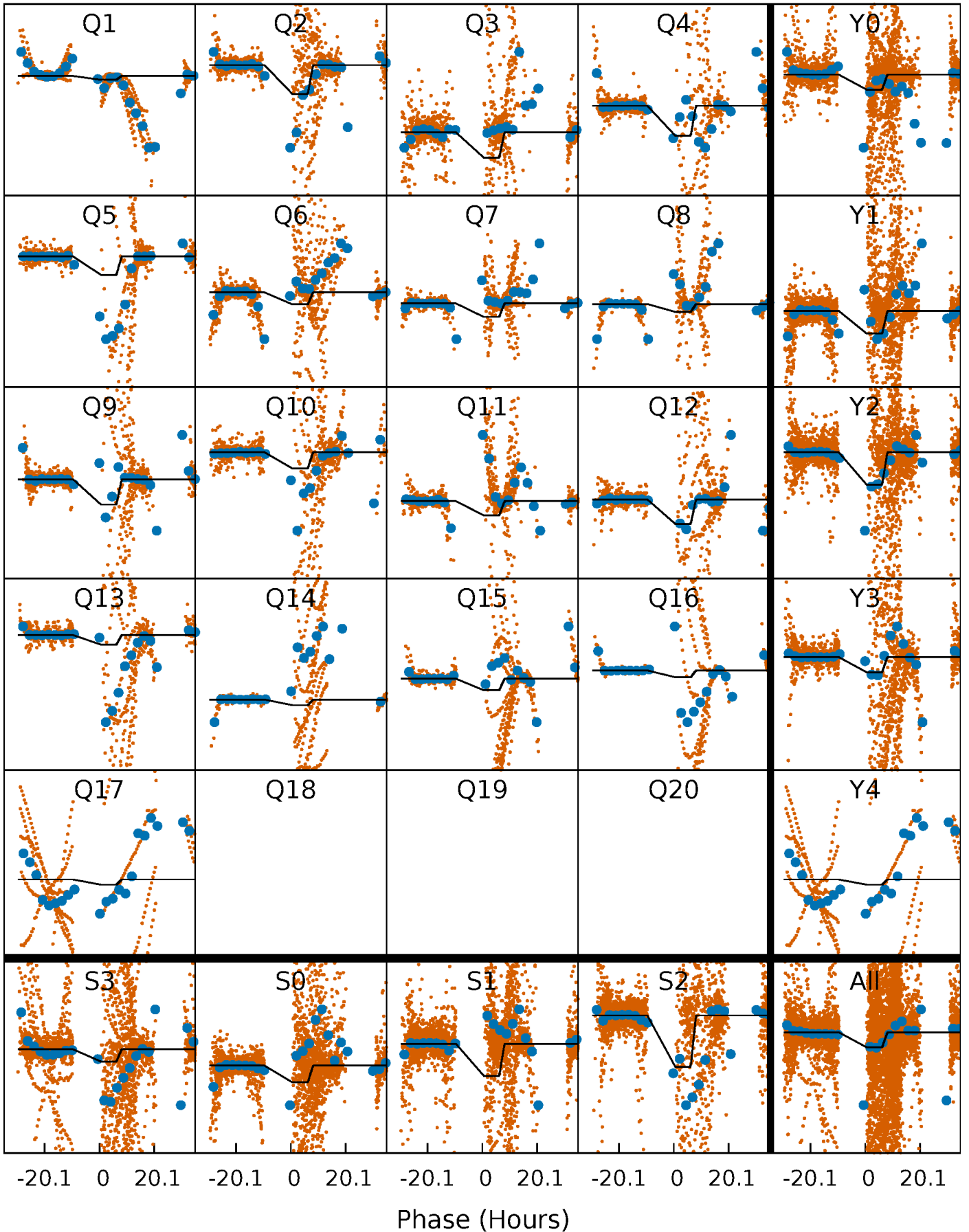
DV Quarter-Phased Transit Curves

TCE 006706287-02 P= 5.070719 Days $T_0=136.152870$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

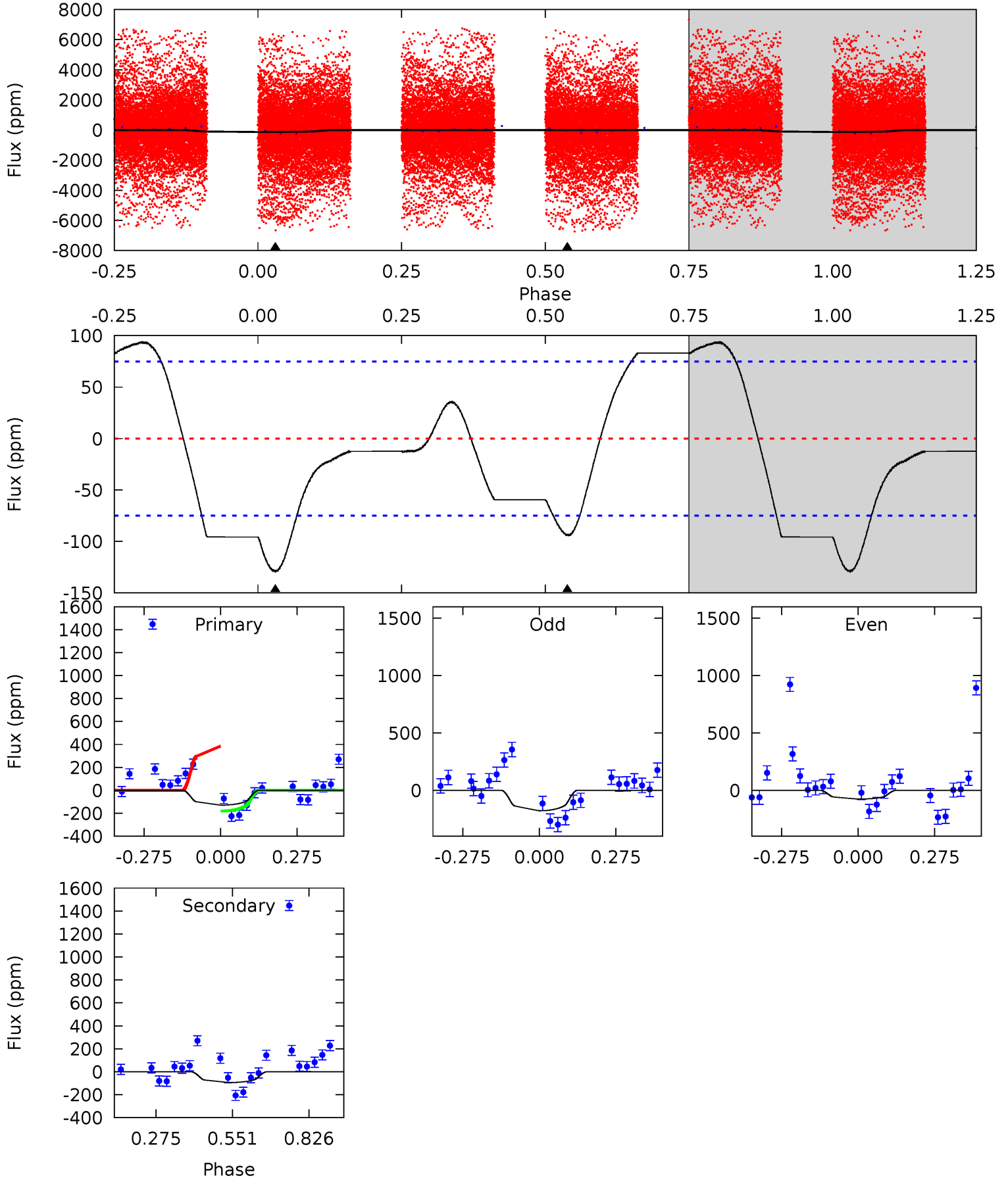
TCE 006706287-02 P= 5.070656 Days $T_0=136.127563$ (BKJD)



DV Model-Shift Uniqueness Test

006706287-02, P = 5.070719 Days, E = 131.082151 Days

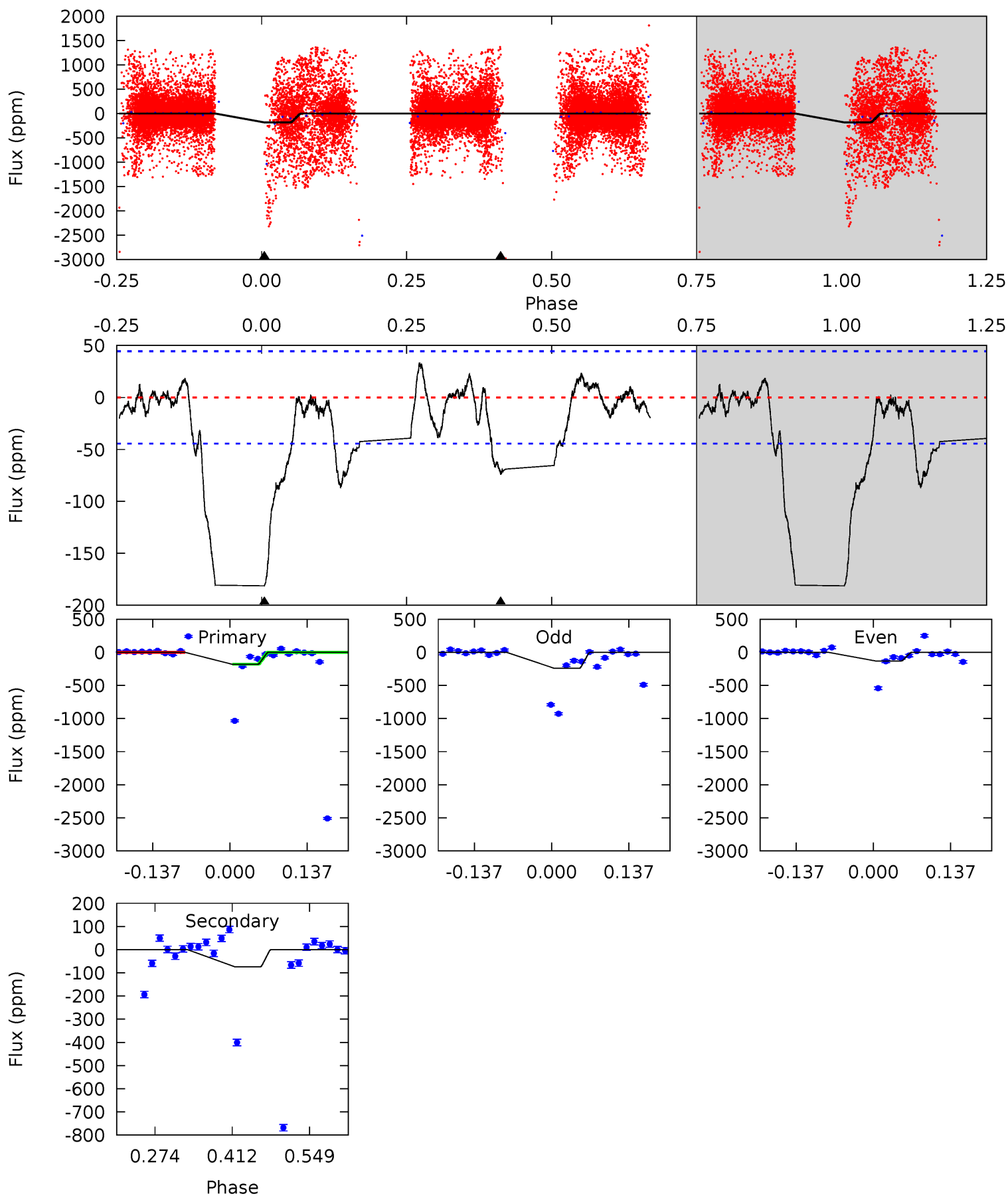
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.52	5.46	0	0	4.35	1.09	2.77	7.52	7.52	5.46	5.46	3.08	-9.63	0.42	5.40



Alt Model-Shift Uniqueness Test

006706287-02, P = 5.070656 Days, E = 131.056907 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.4	7.51	0	0	4.50	1.49	1.41	18.4	18.4	7.51	7.51	5.72	2.67	0.16	0



Stellar Parameters For KIC 006706287

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5446^{+191}_{-172}	$4.388^{+0.162}_{-0.198}$	$-0.080^{+0.300}_{-0.300}$	$0.961^{+0.260}_{-0.173}$	$0.825^{+0.131}_{-0.060}$	$1.309^{+0.983}_{-0.642}$
	+4%/-3%	+4%/-5%	+375%/-375%	+27%/-18%	+16%/-7%	+75%/-49%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006706287-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-94 ± 17	$15.38^{+2.85}_{-1.60}$	1423^{+114}_{-90}	2149^{+100}_{-128}	$0.629^{+0.223}_{-0.166}$
Alt.	-74 ± 10	$3.46^{+0.56}_{-0.41}$	1424^{+107}_{-95}	3322^{+110}_{-111}	10^{+3}_{-3}

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 $A_{obs} \gg 1.0$

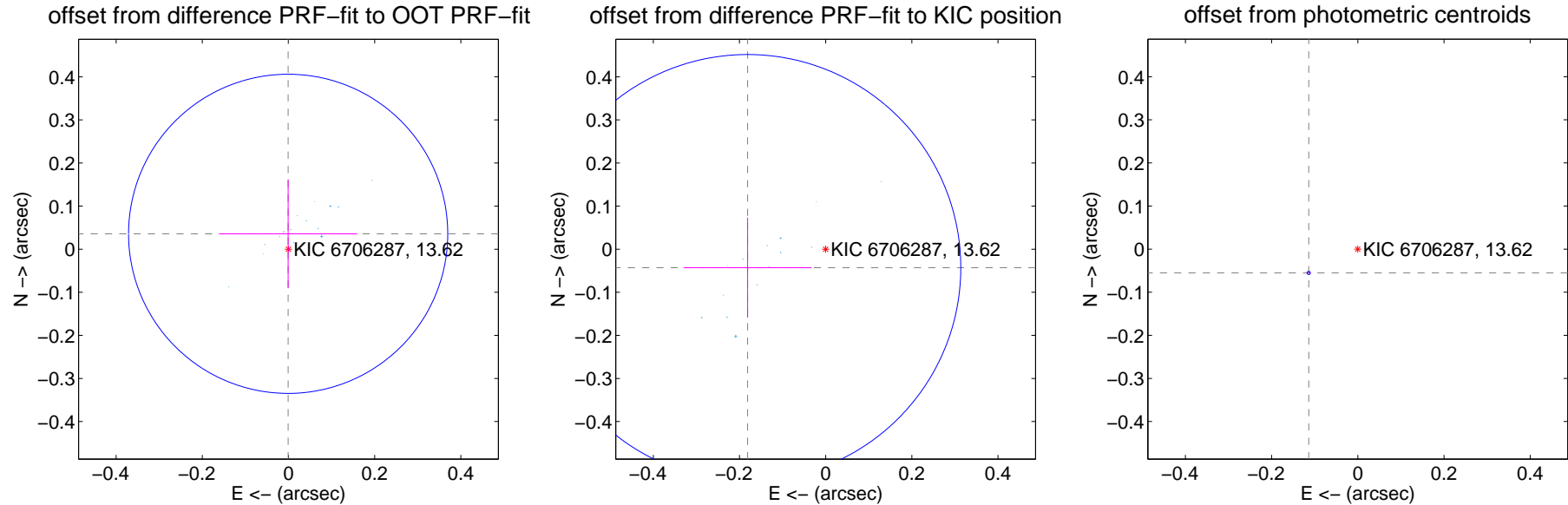
DV Centroid Data

Supplemental centroid analysis for 006706287-02. Kepler magnitude: 13.62. Transit SNR 149.03

There are 16 quarters with good PRF difference image offsets

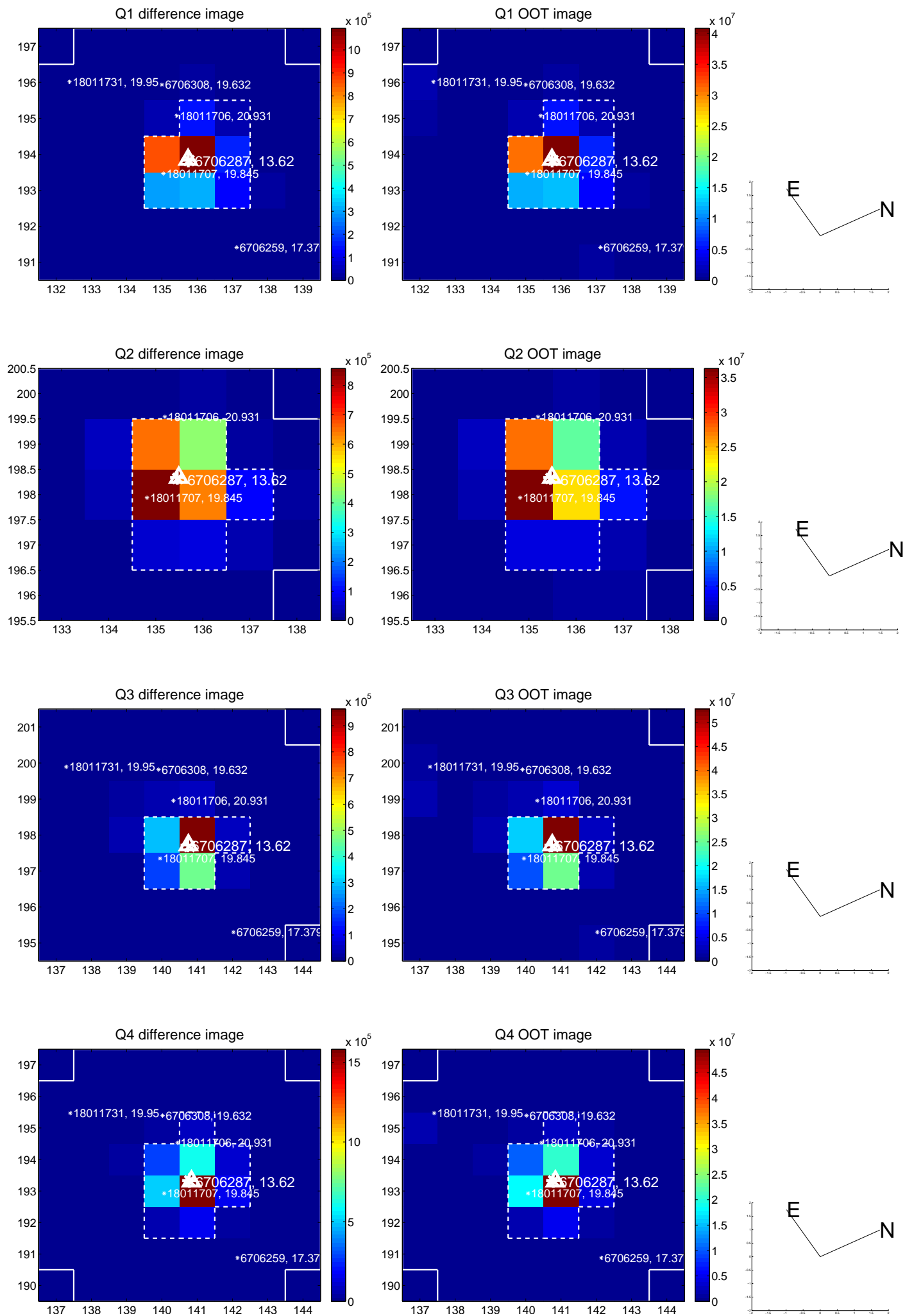
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.036 ± 0.123	0.29	0.001 ± 0.160	0.036 ± 0.126
PRF-fit source offset from KIC position	0.186 ± 0.165	1.13	0.181 ± 0.148	-0.043 ± 0.116
photometric centroid source offset	0.13 ± 0.00	102.98	0.11 ± 0.00	-0.06 ± 0.00

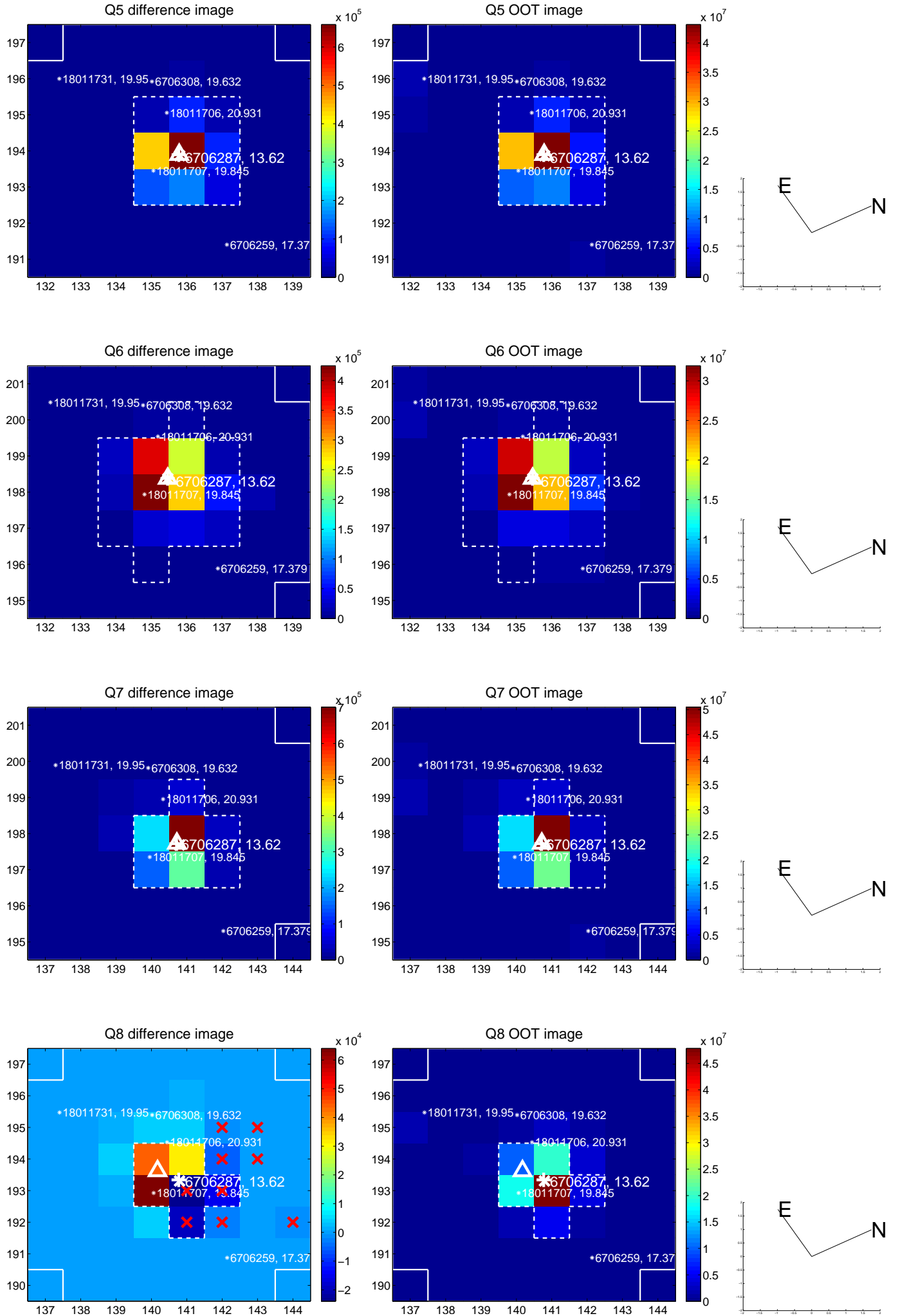


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

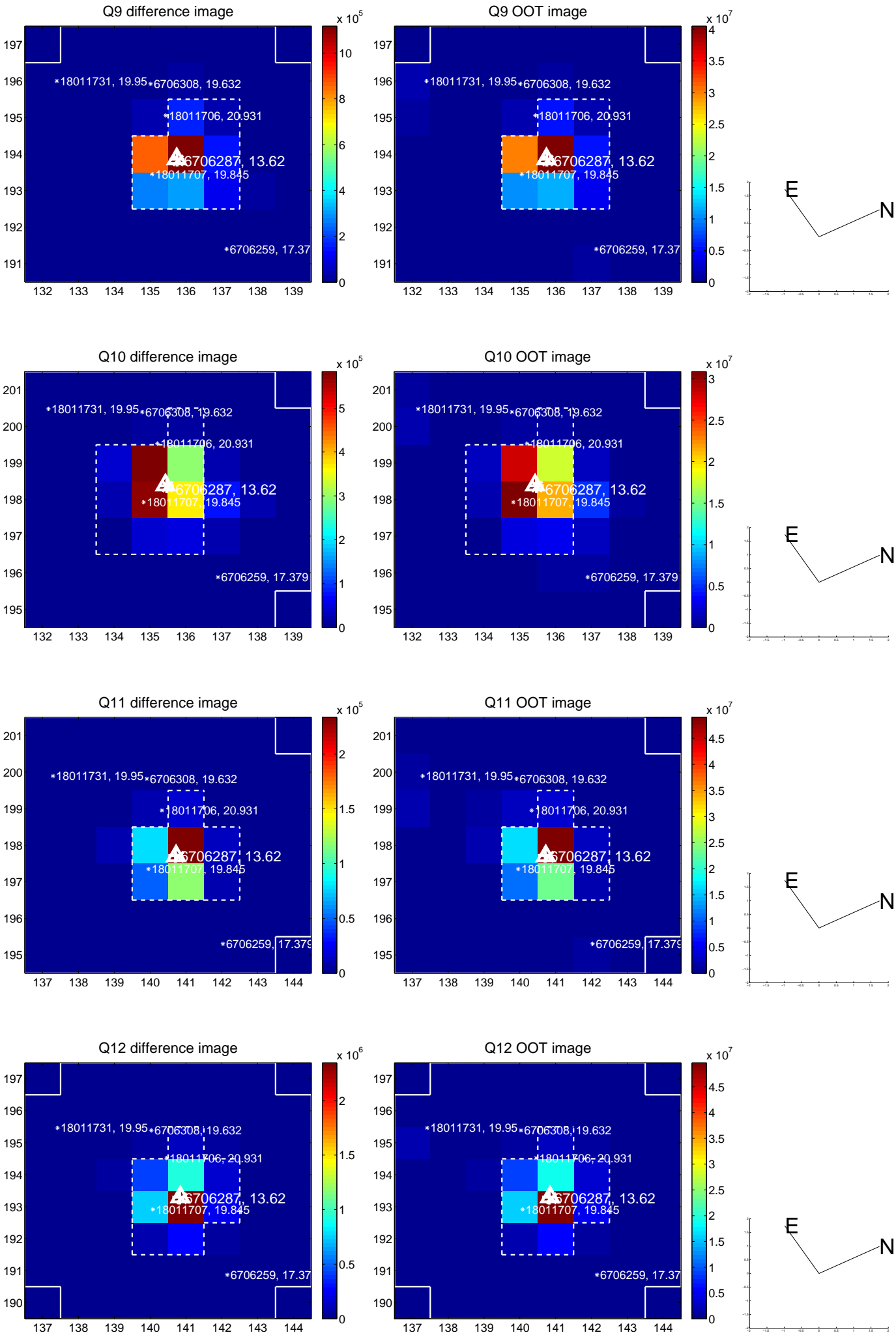
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



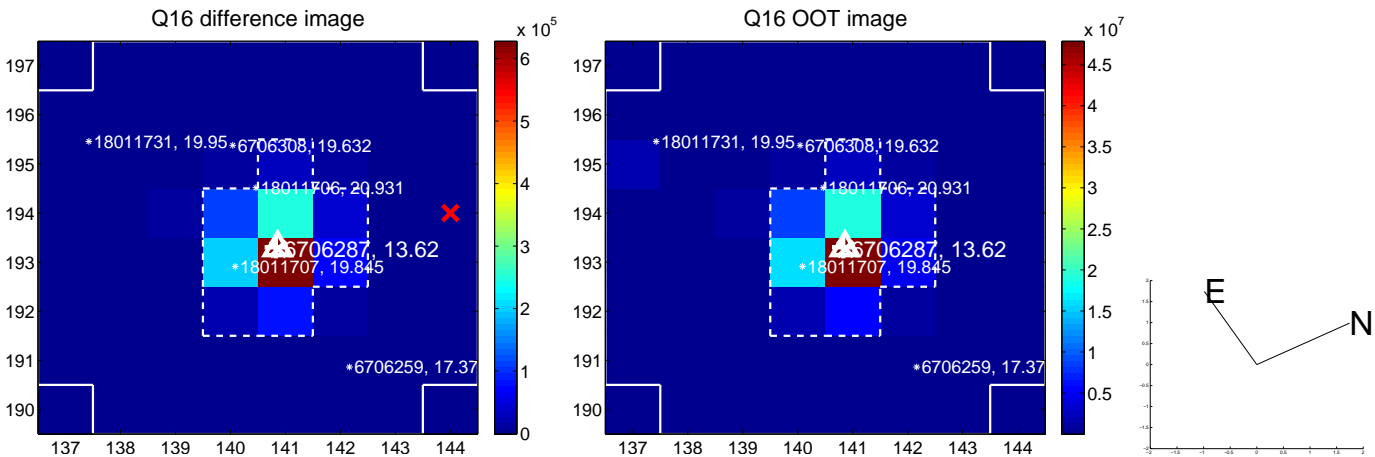
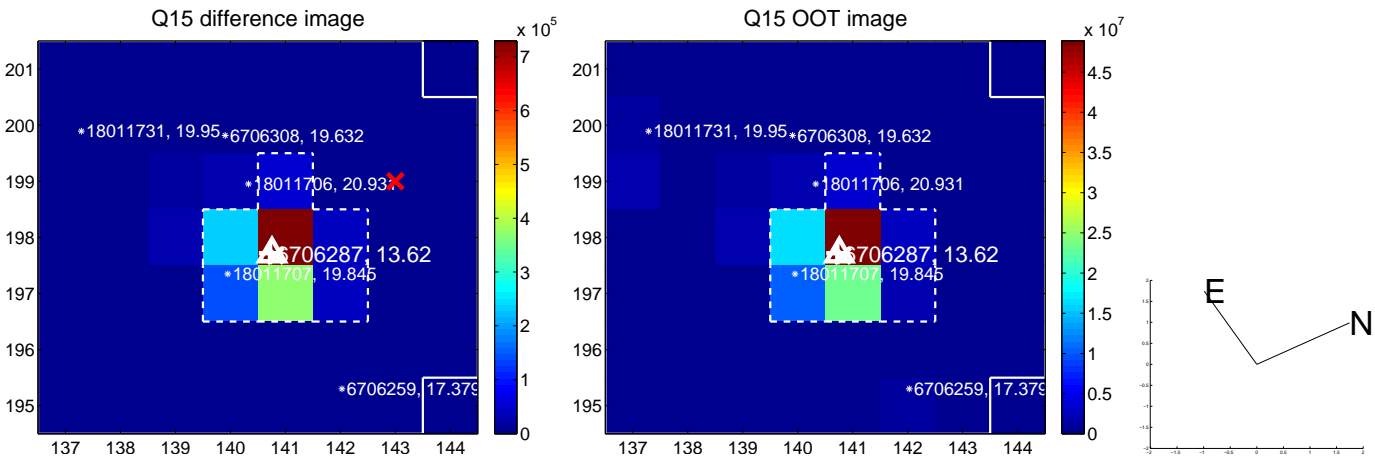
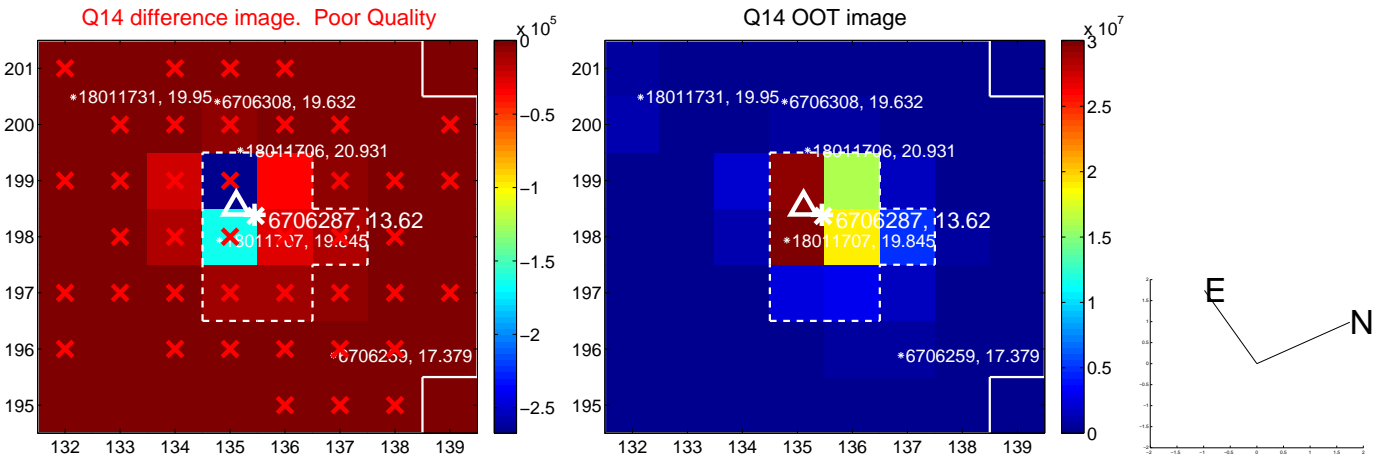
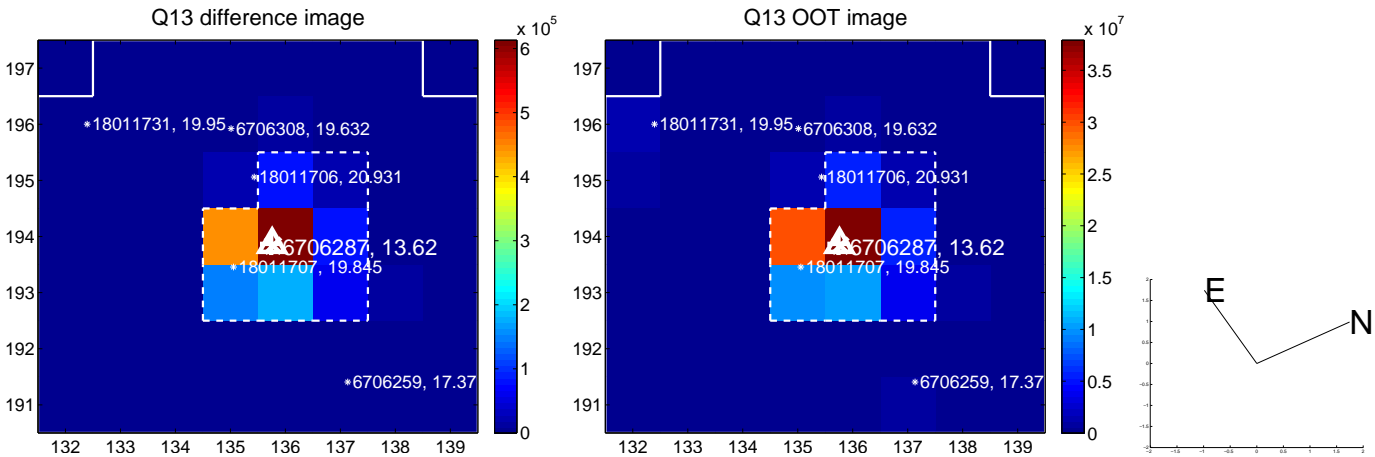
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



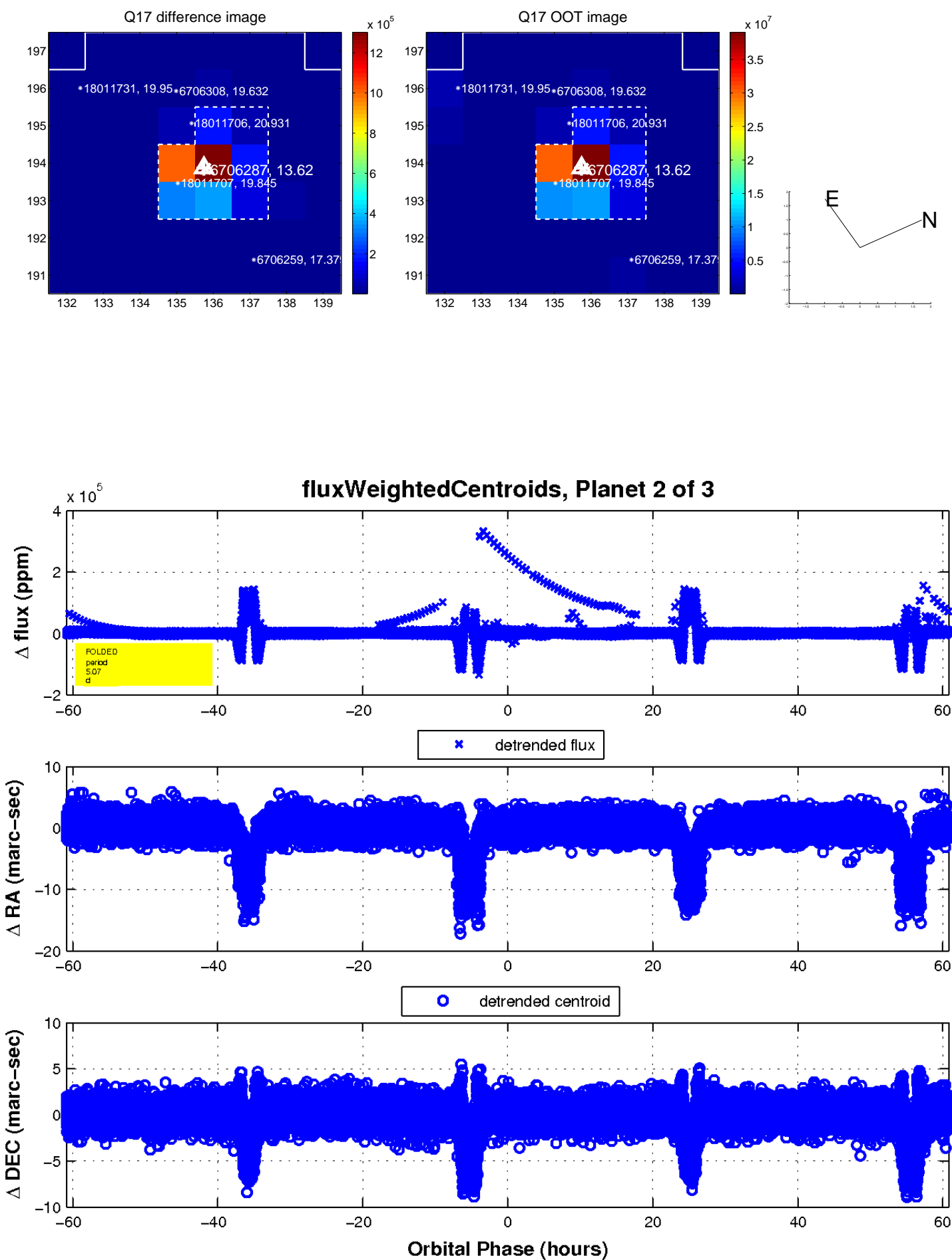
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



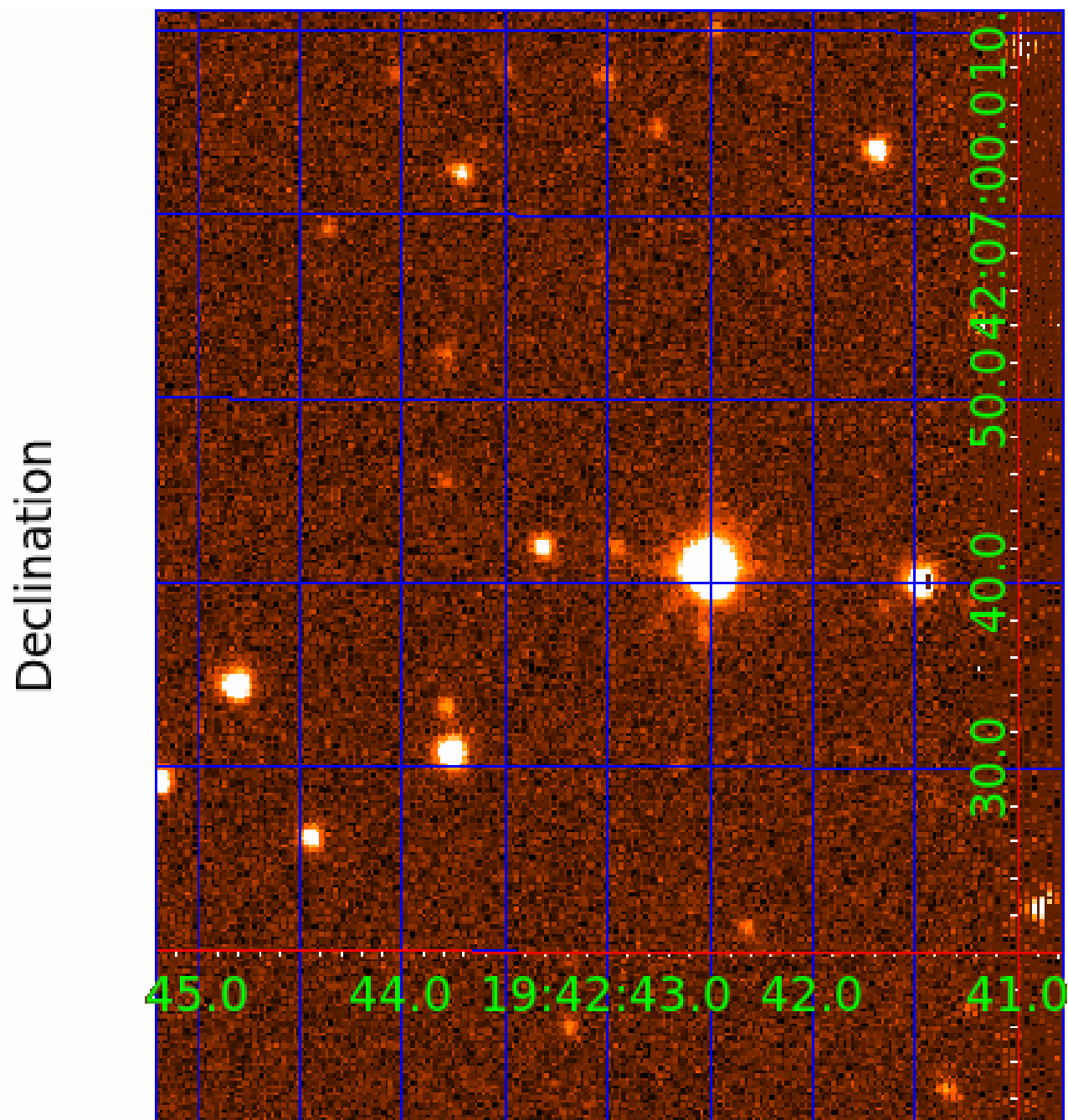
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 006706287

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})
006706287-01	OBS	6761.01	1.267694	132.117189	331474.5	3.500	15106.5	-1.0	0.96	5446	23.31	1576.40
006706287-02	OBS	No	5.070719	136.152870	26247.5	33.062	6079.2	149.0	0.96	5446	15.29	248.27
006706287-03	OBS	No	5.071015	133.642718	3297.9	17.968	771.4	52.8	0.96	5446	5.48	248.25

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006706287-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_DV—DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_ALT—HAS_SEC_TCE—CENT_NOFITS
006706287-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—RESIDUAL_TCE
006706287-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—RESIDUAL_TCE

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.

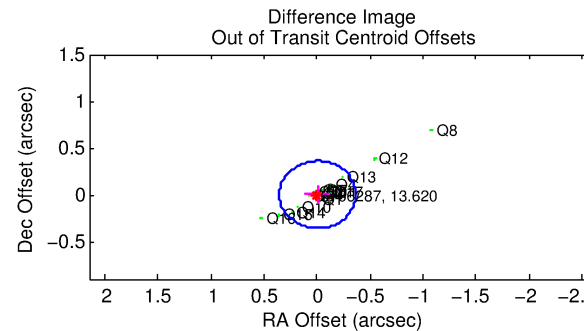
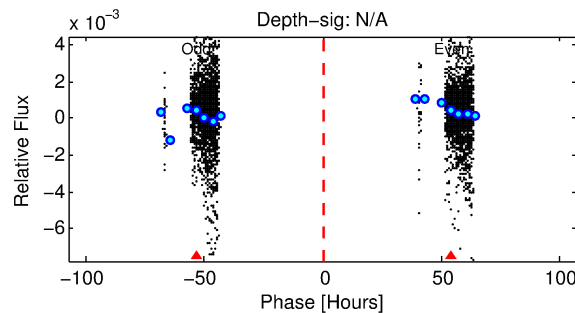
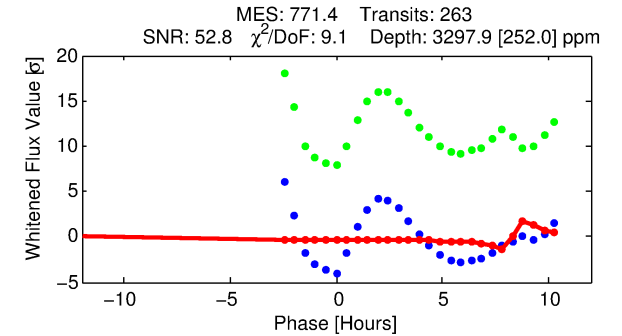
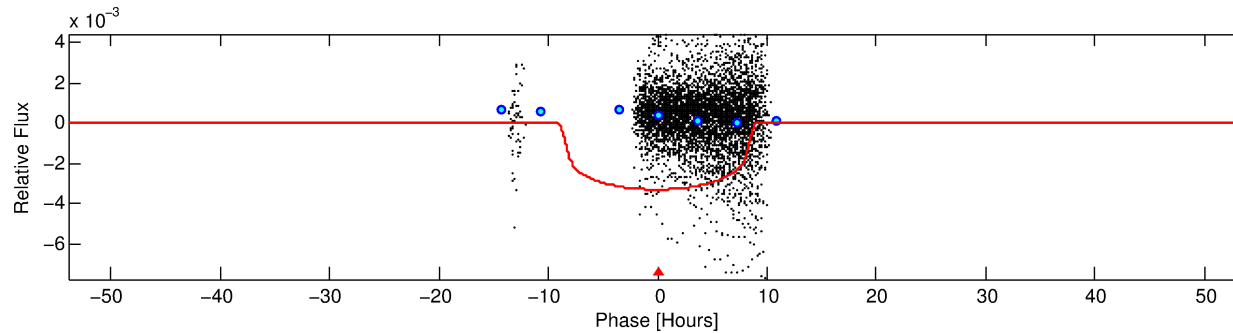
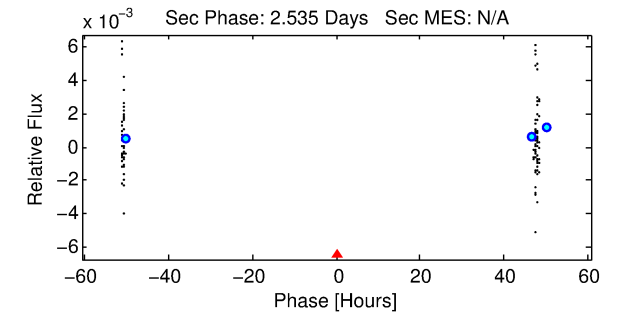
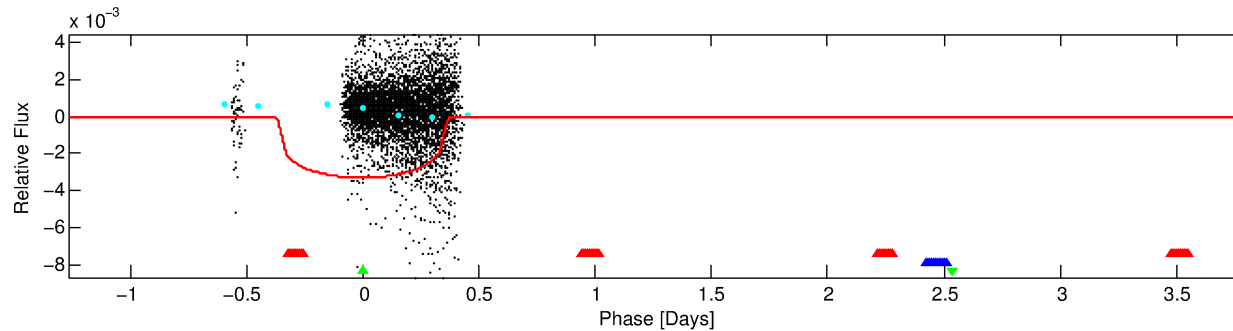
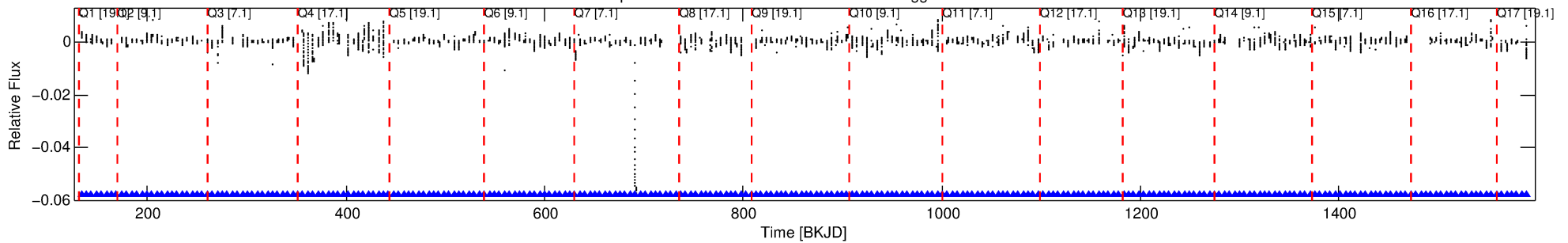
Ephemeris Match Information For 006706287-03

No Significant Match Found

DV One-Page Summary

KIC: 6706287 Candidate: 3 of 3 Period: 5.071 d
KOI: K06761 Corr: No Ephemeris Match

Kp: 13.62 R*: 0.96 Rs Teff: 5446.0 K Logg: 4.39 Fe/H: -0.080



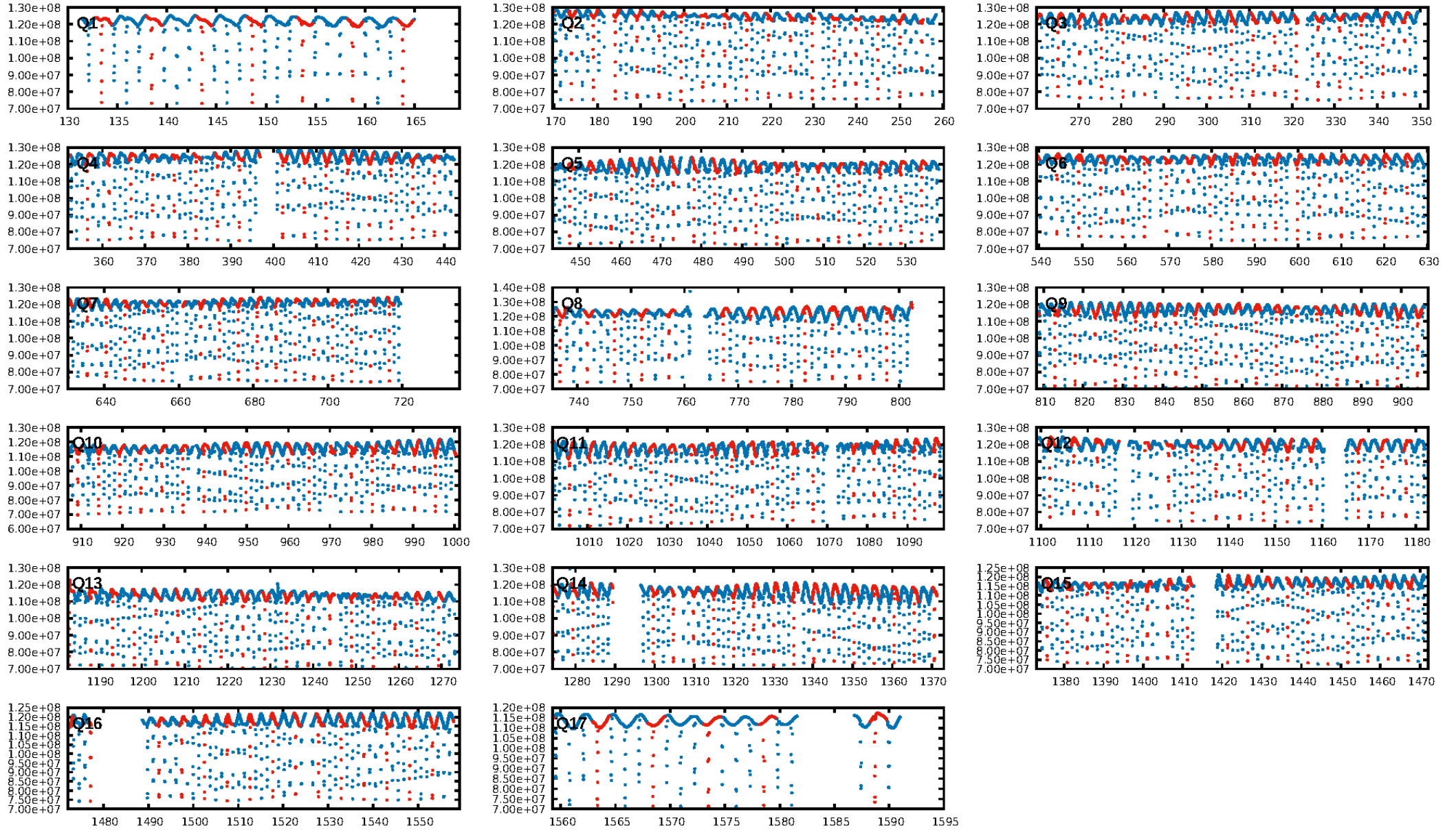
DV Fit Results:

Period = 5.07101 [0.00002] d
Epoch = 133.6427 [0.0270] BKJD
Rp/R* = 0.0523 [0.0024]
a/R* = 2.27 [0.34]
b = 0.31 [0.33]
Seff = 248.25 [94.40]
Teq = 1012 [96] K
Rp = 5.48 [1.50] Re
a = 0.0541 [0.0128] AU

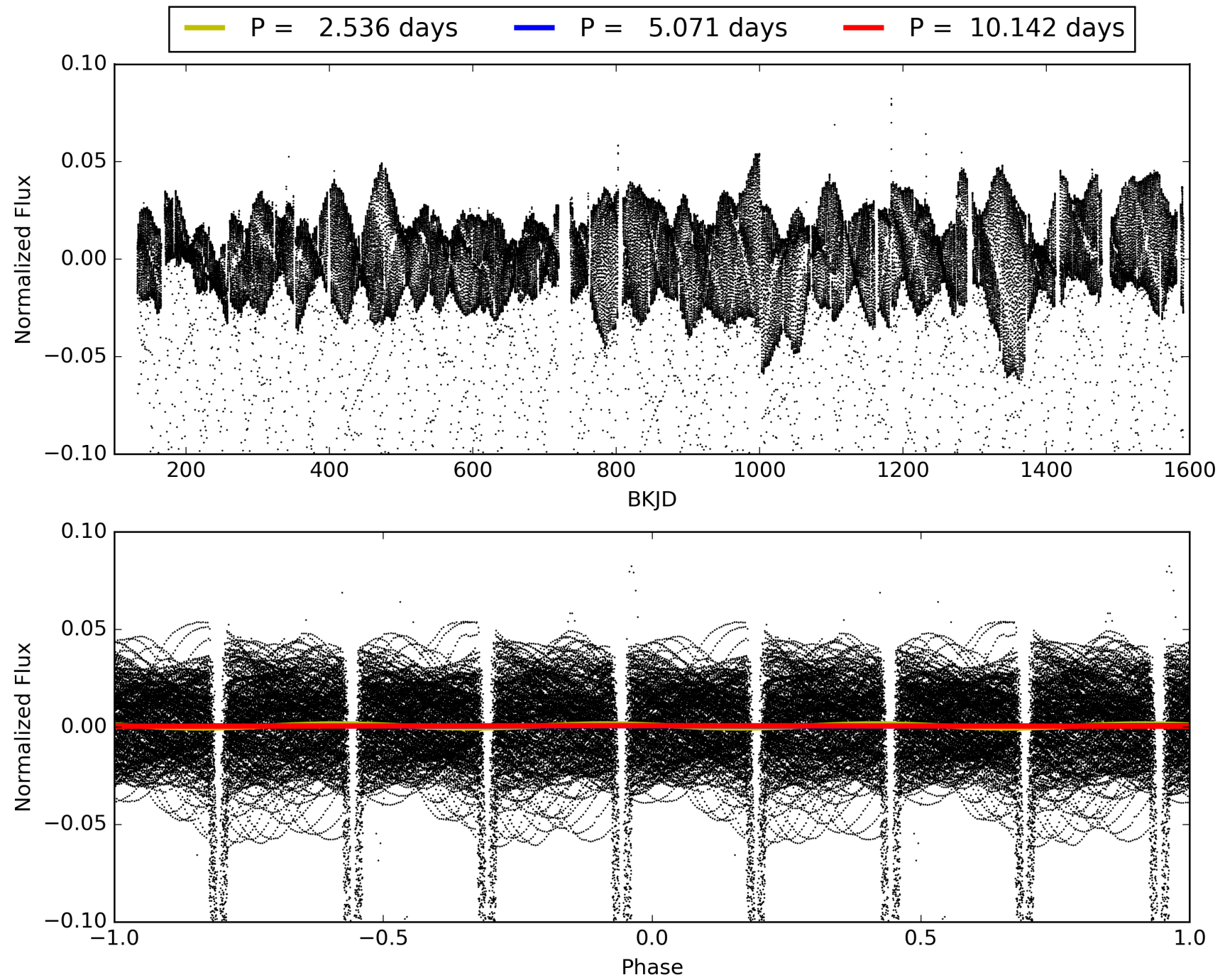
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [251/251]
GhostDiagnostic-chr: 0.8865
Centroid-sig: N/A
Centroid-so: 0.150 arcsec [14.04σ]
OotOffset-rm: 0.004 arcsec [0.04σ]
KicOffset-rm: 0.131 arcsec [1.13σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.65 [11/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 006706287-03, PDC Light Curves

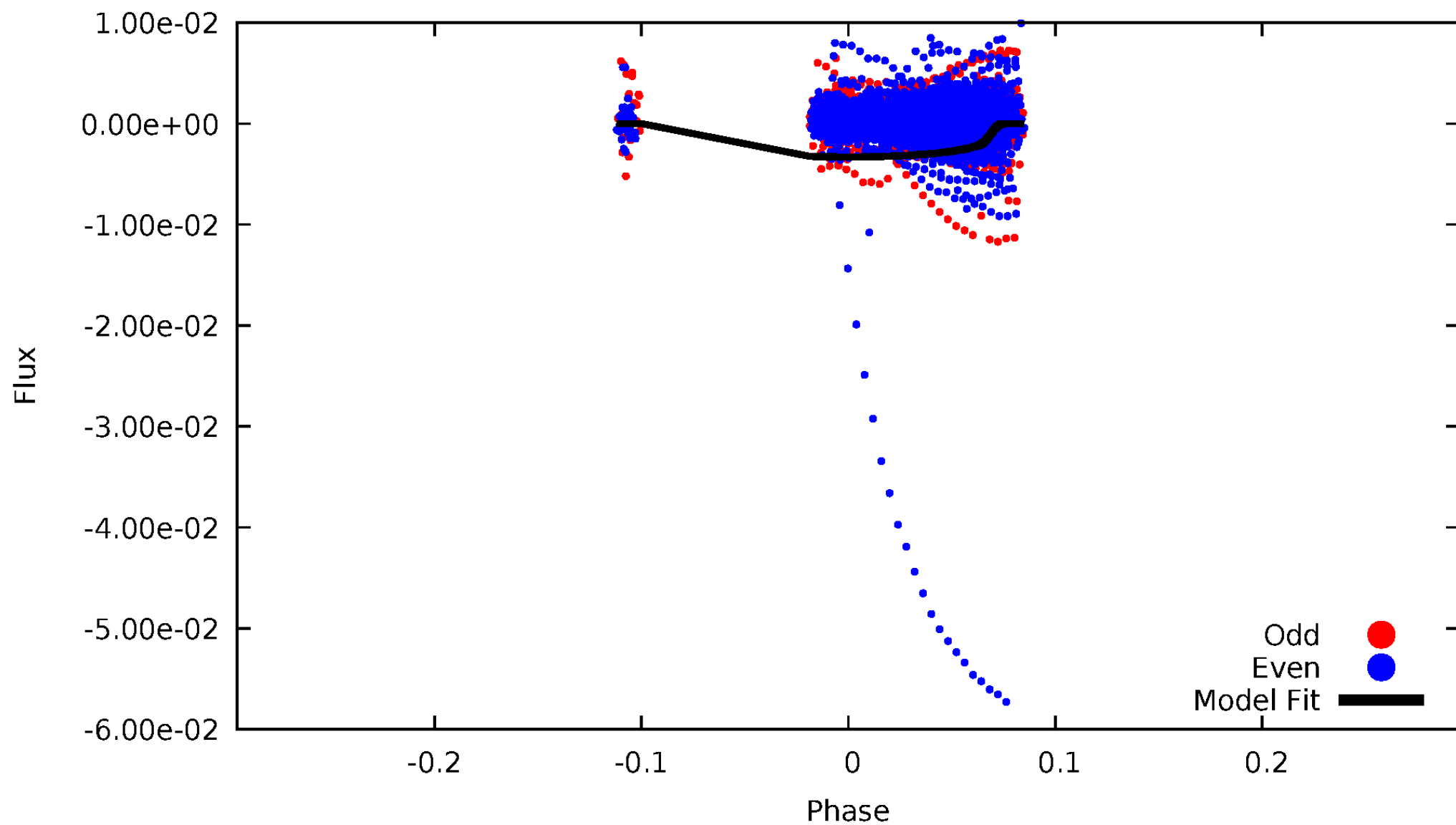


TCE 006706287-03



DV Odd/Even

TCE 006706287-03

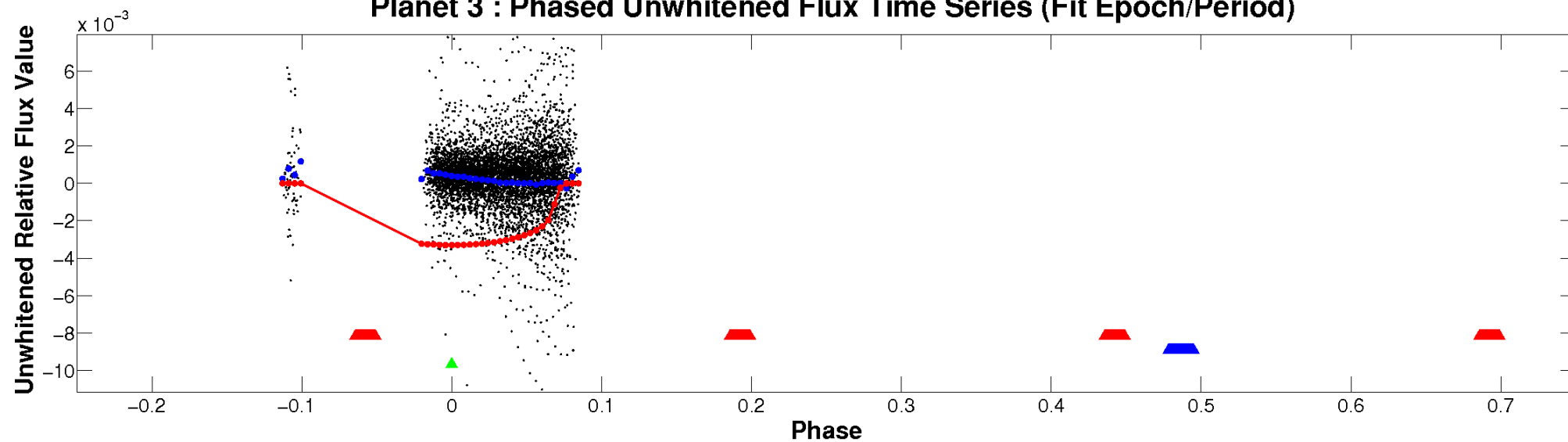


ALT Odd/Even

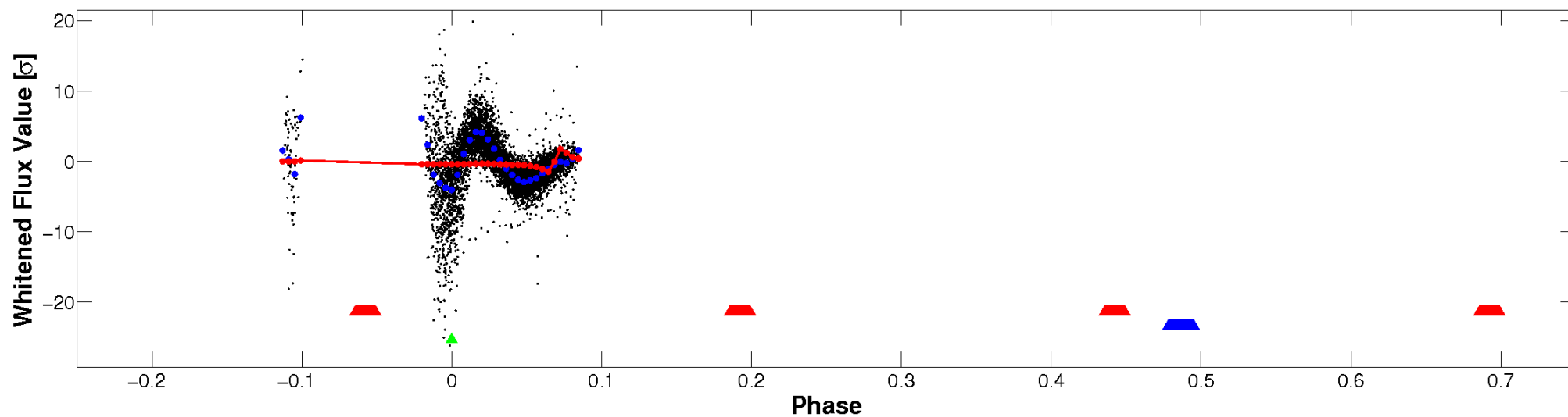
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

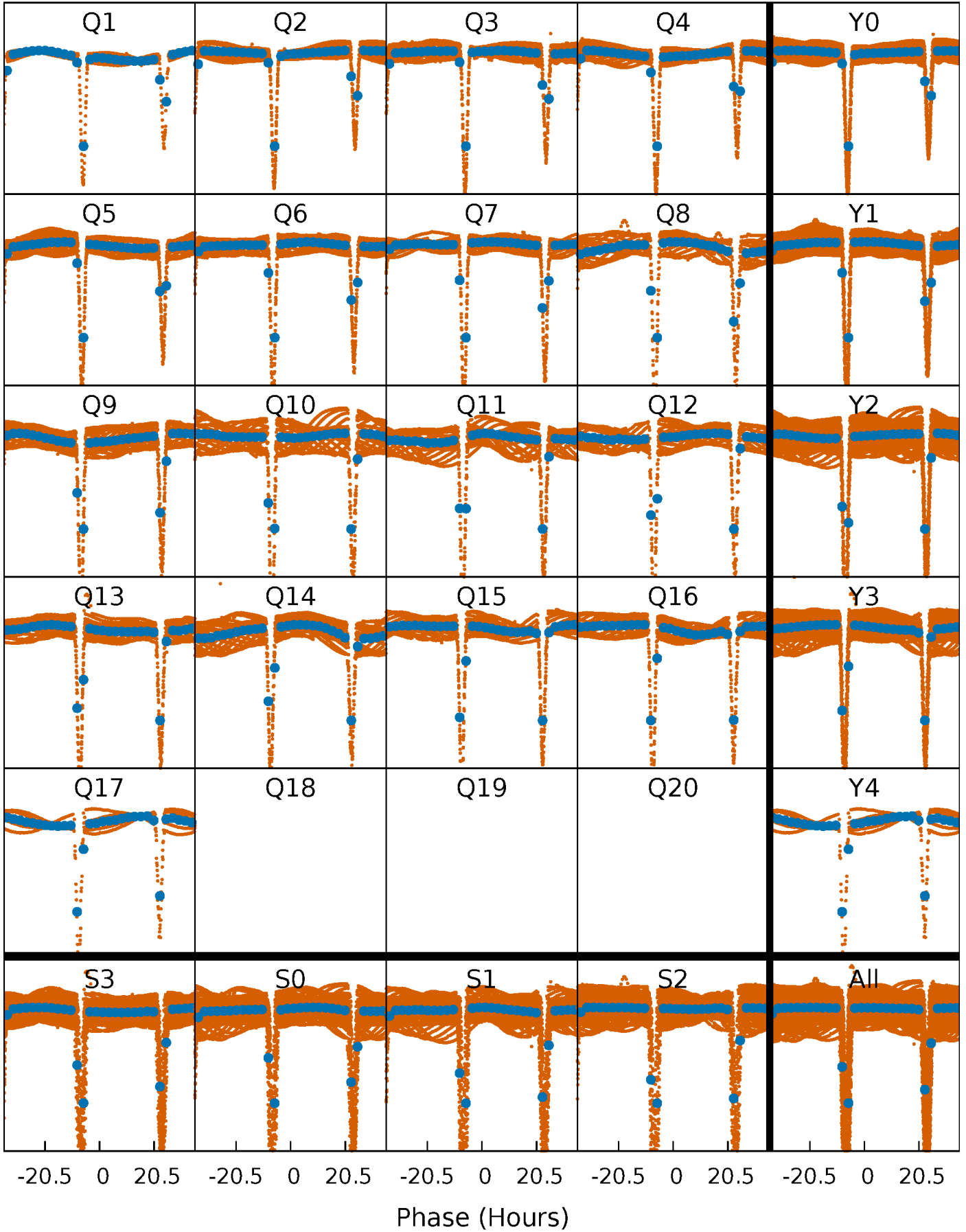


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



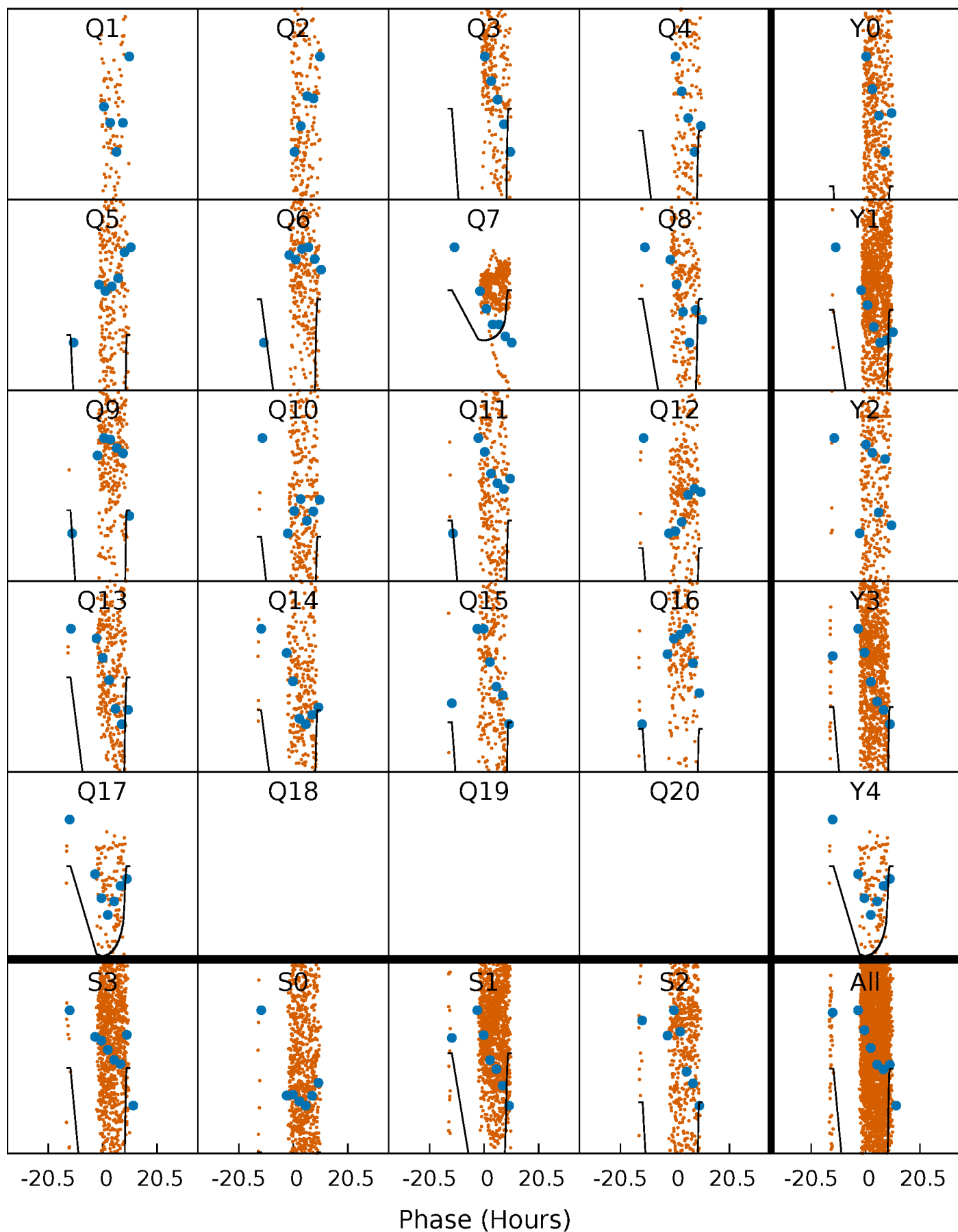
PDC Quarter-Phased Transit Curves

TCE 006706287-03 P= 5.071015 Days $T_0=133.642718$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006706287-03 P= 5.071015 Days $T_0=133.642718$ (BKJD)

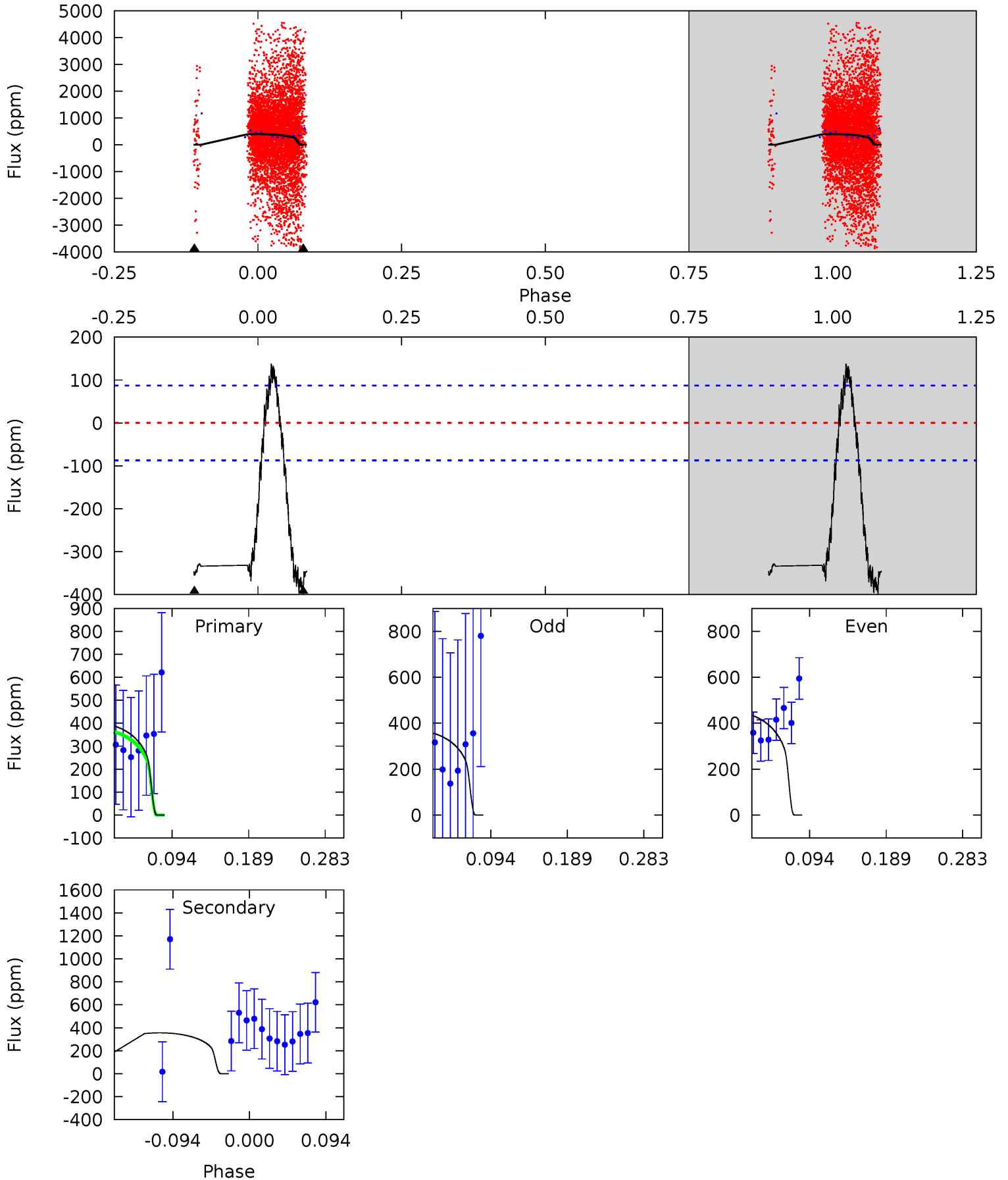


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006706287-03, P = 5.071015 Days, E = 128.571703 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.0	18.6	0	0	4.58	1.67	1.88	21.0	21.0	18.6	18.6	2.21	0.43	0.26	4.15



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006706287

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5446^{+191}_{-172}	$4.388^{+0.162}_{-0.198}$	$-0.080^{+0.300}_{-0.300}$	$0.961^{+0.260}_{-0.173}$	$0.825^{+0.131}_{-0.060}$	$1.309^{+0.983}_{-0.642}$
	+4%/-3%	+4%/-5%	+375%/-375%	+27%/-18%	+16%/-7%	+75%/-49%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006706287-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-356 ± 19	$5.63^{+0.85}_{-0.71}$	1433^{+105}_{-100}	3677^{+118}_{-114}	18^{+5}_{-4}
Alt.	N/A	N/A	N/A	N/A	N/A

T_{max} = Theoretical Maximum Planetary Temperature

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

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

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

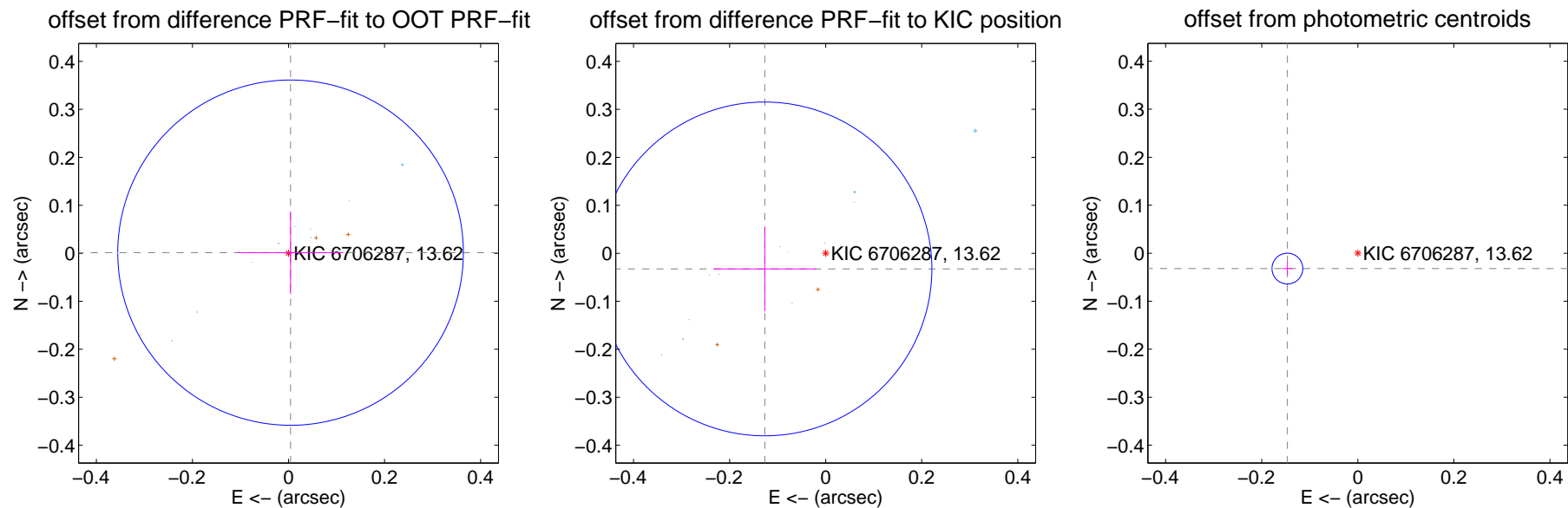
DV Centroid Data

Supplemental centroid analysis for 006706287-03. Kepler magnitude: 13.62. Transit SNR 52.83

There are 11 quarters with good PRF difference image offsets

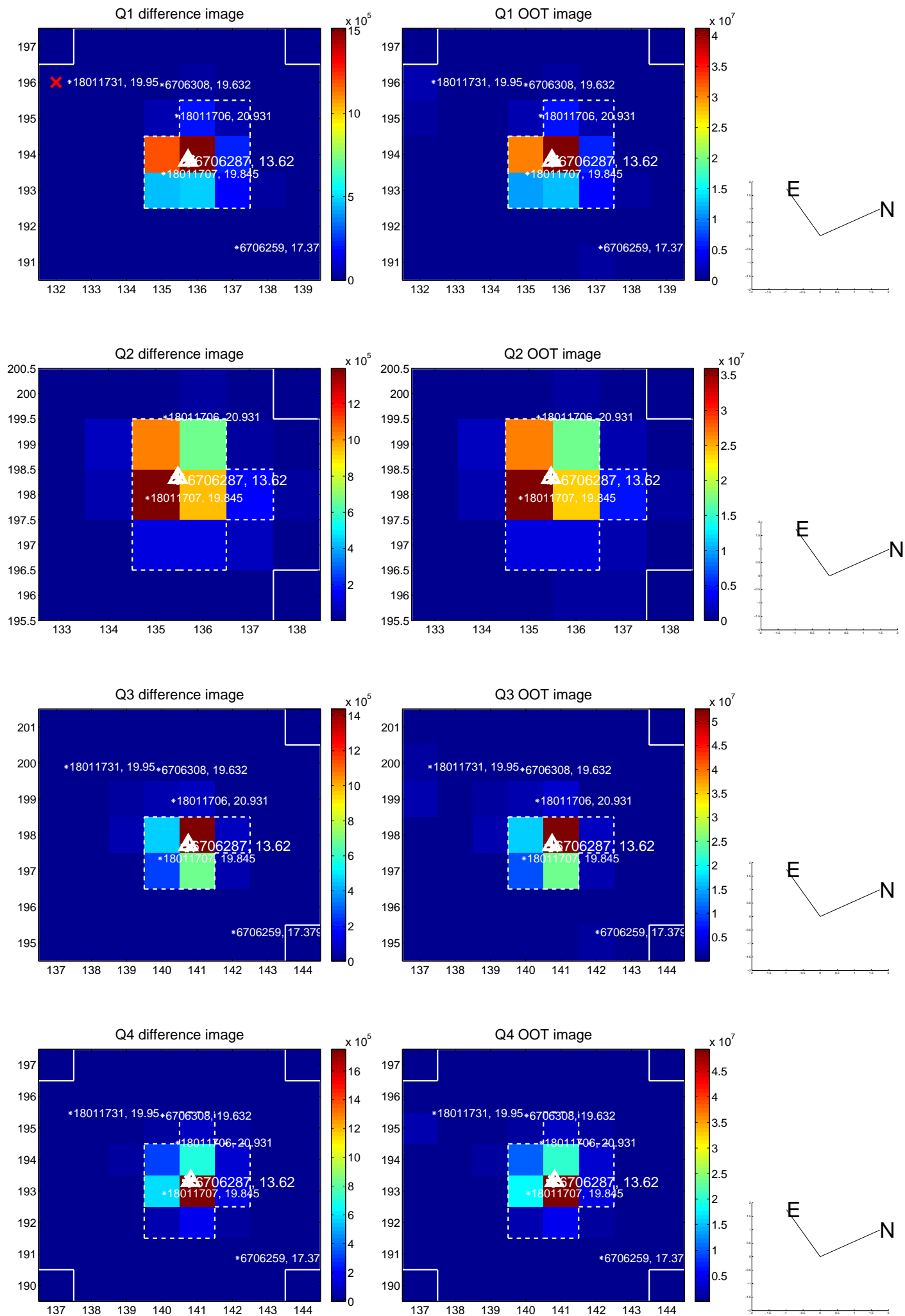
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.004 ± 0.120	0.04	-0.004 ± 0.110	0.001 ± 0.086
PRF-fit source offset from KIC position	0.131 ± 0.116	1.13	0.127 ± 0.107	-0.033 ± 0.088
photometric centroid source offset	0.15 ± 0.01	14.04	0.15 ± 0.01	-0.03 ± 0.01

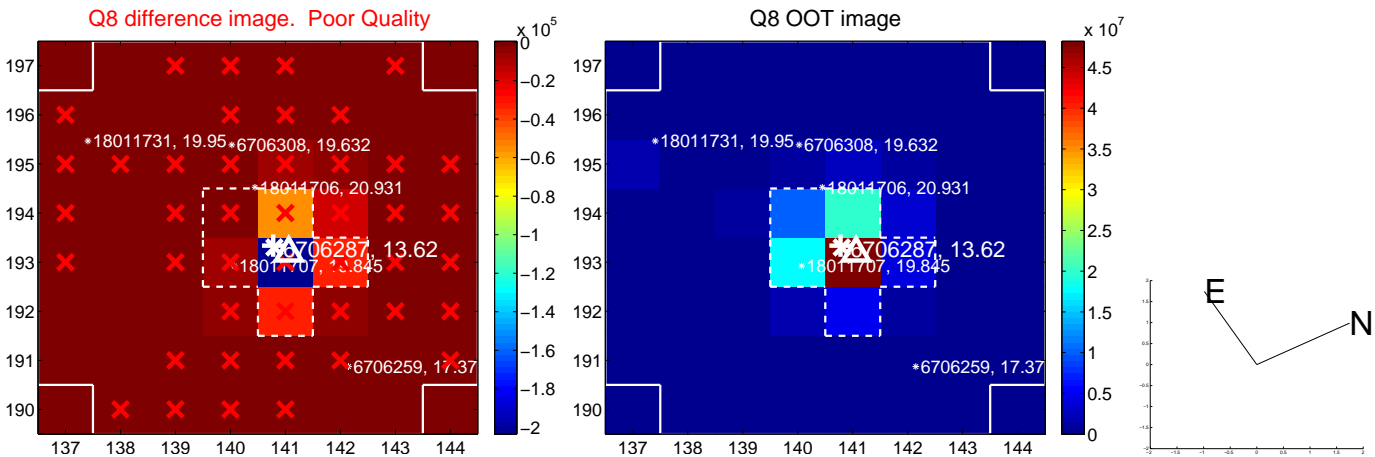
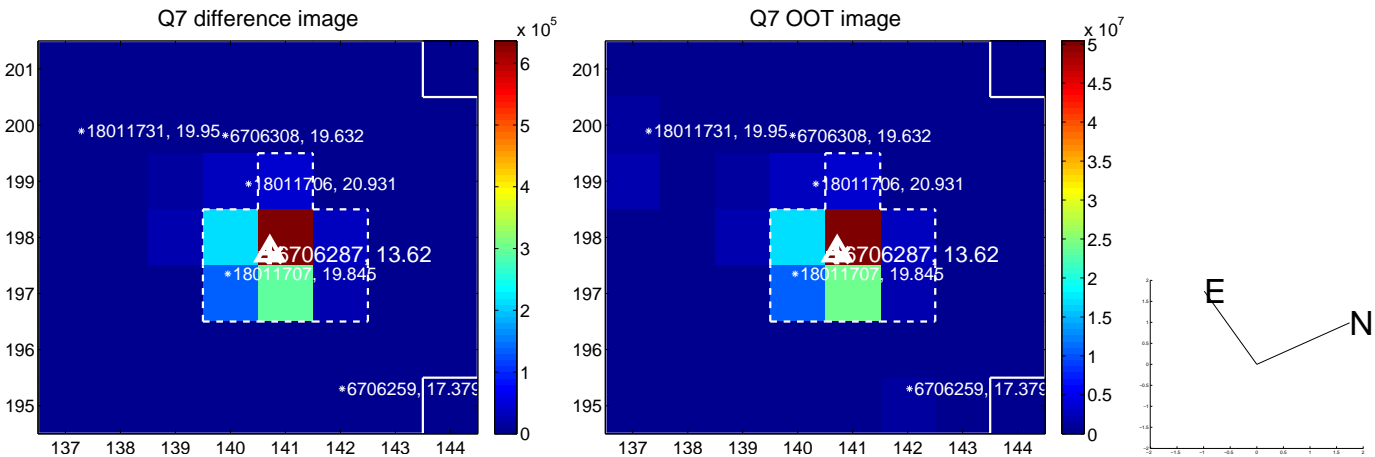
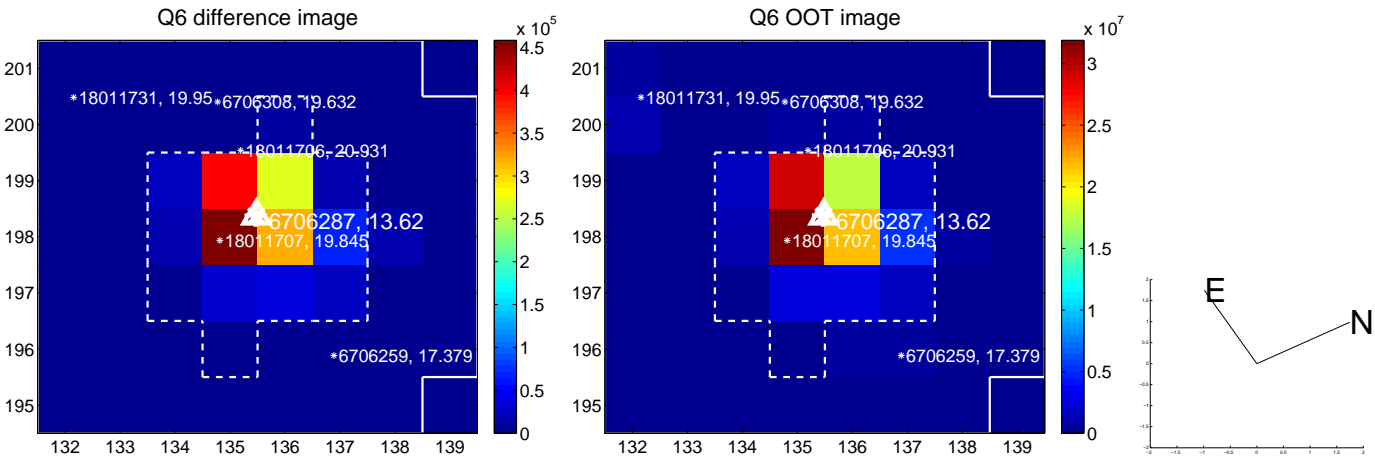
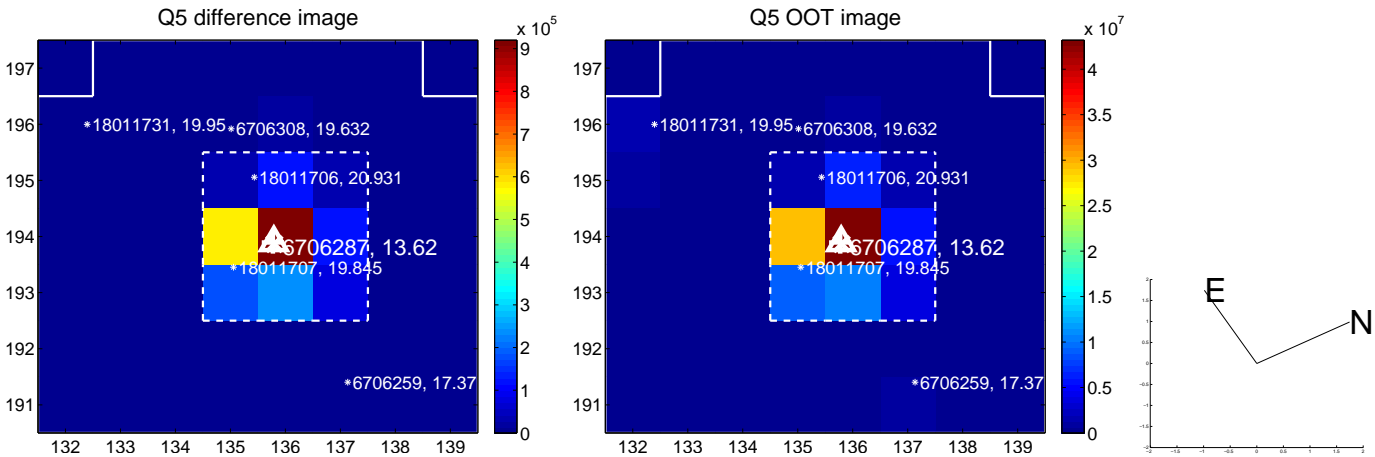


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

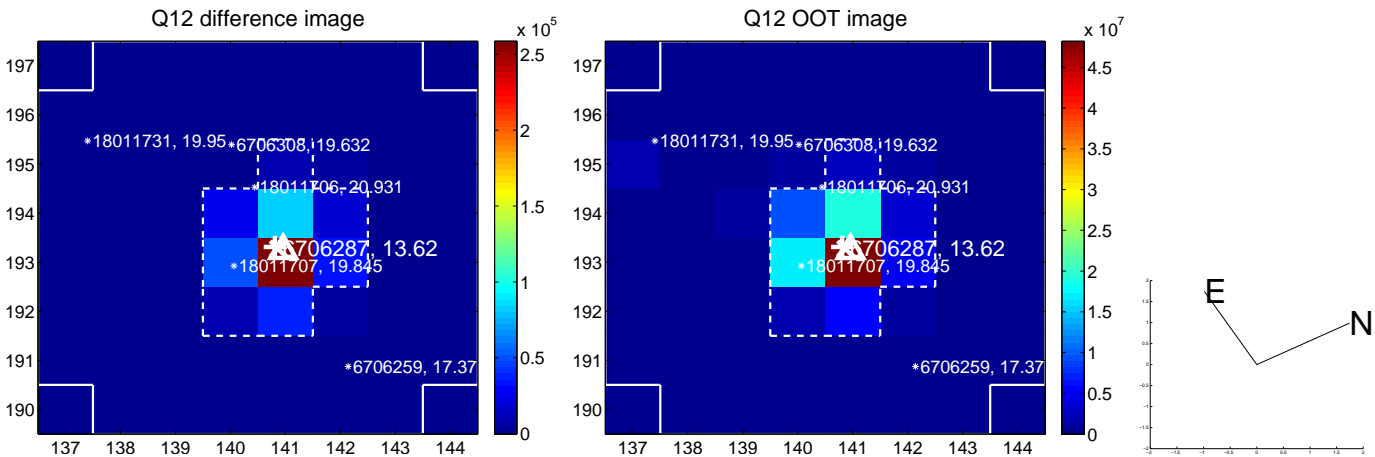
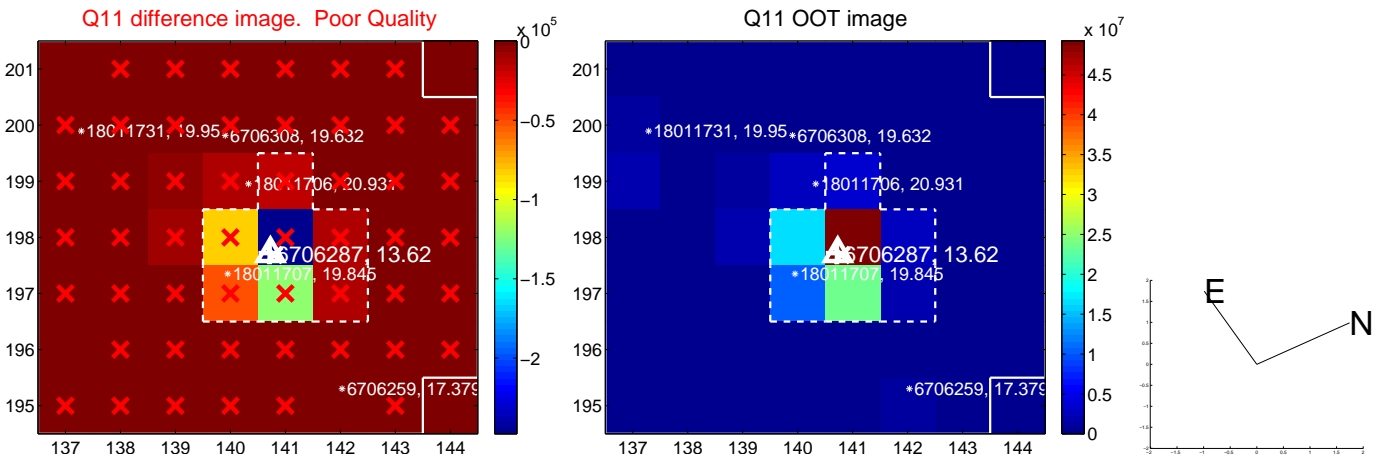
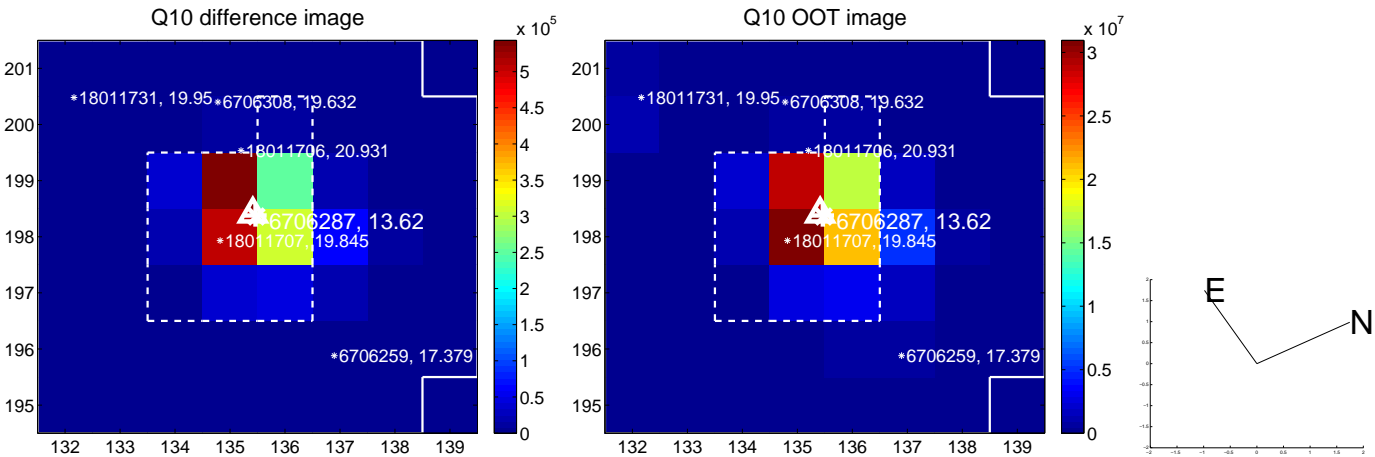
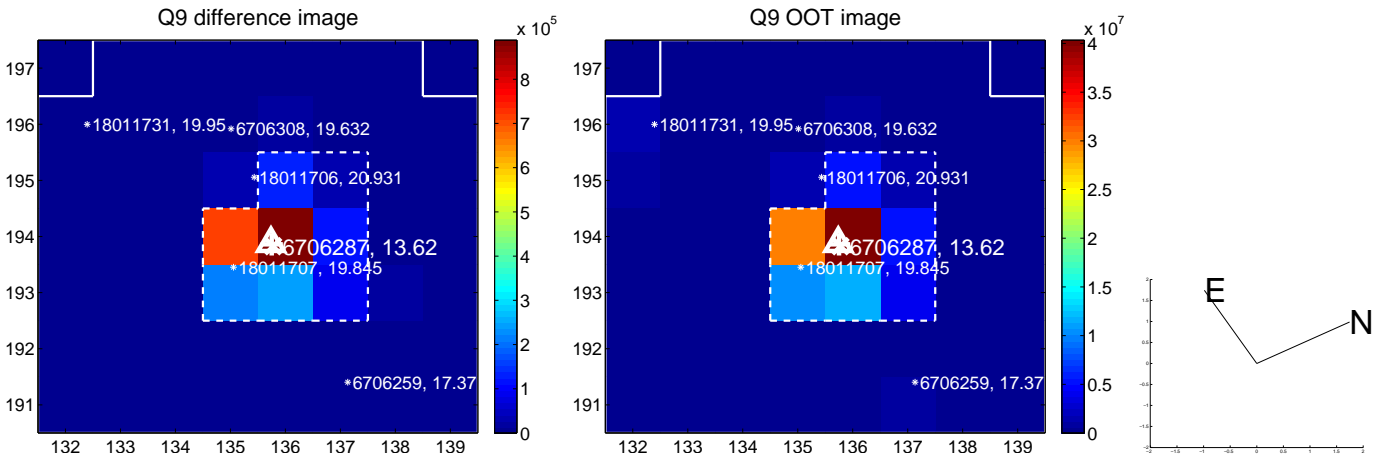
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



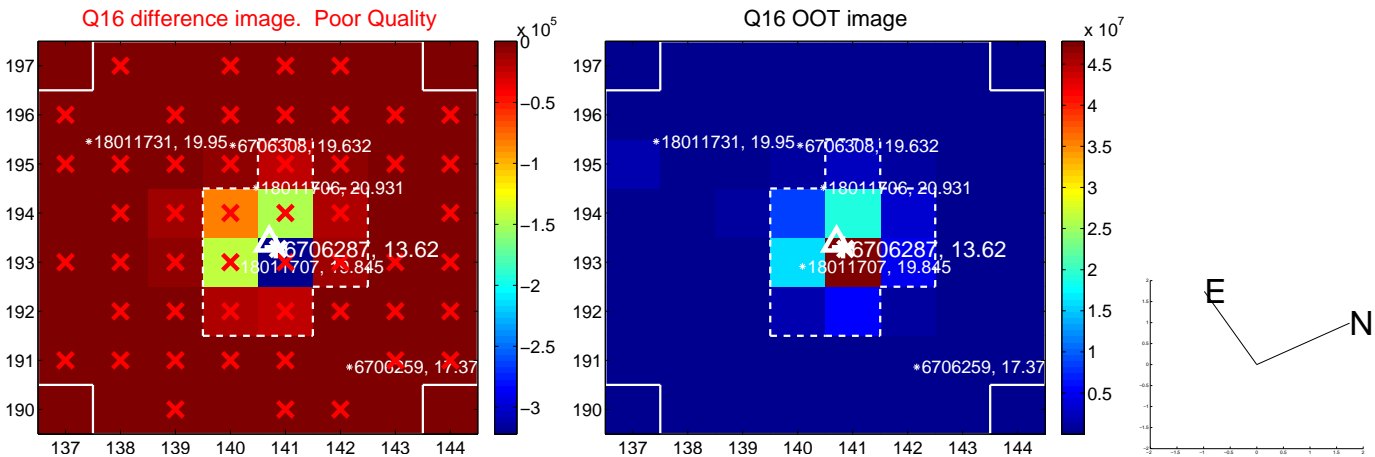
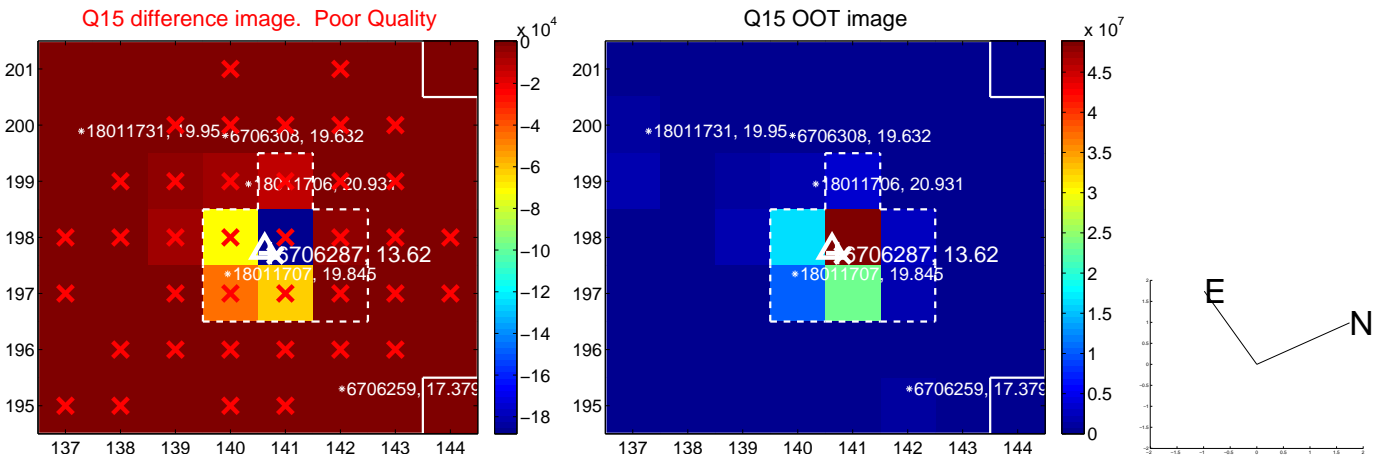
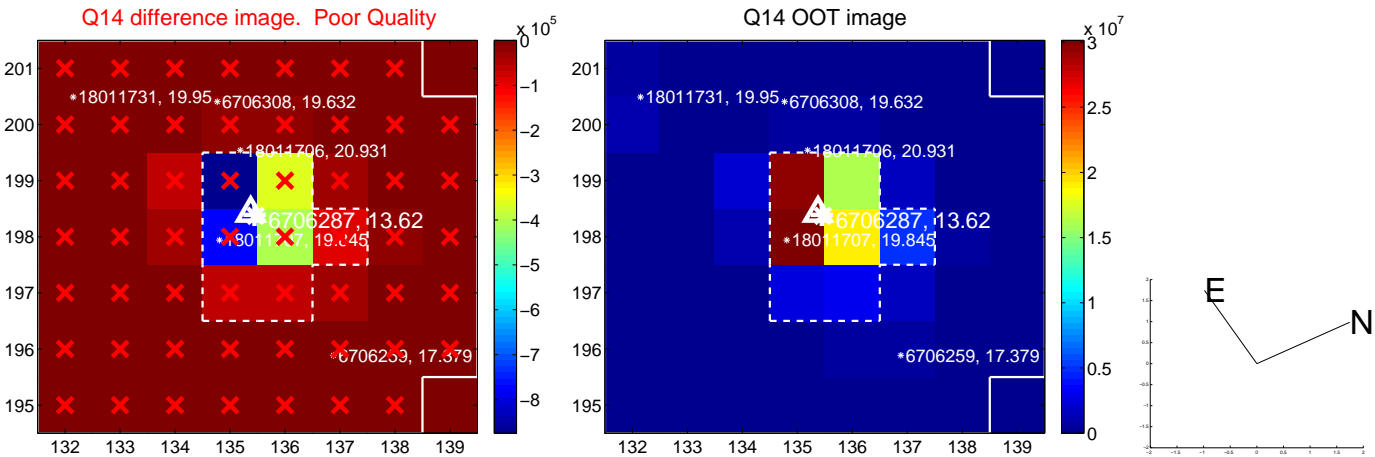
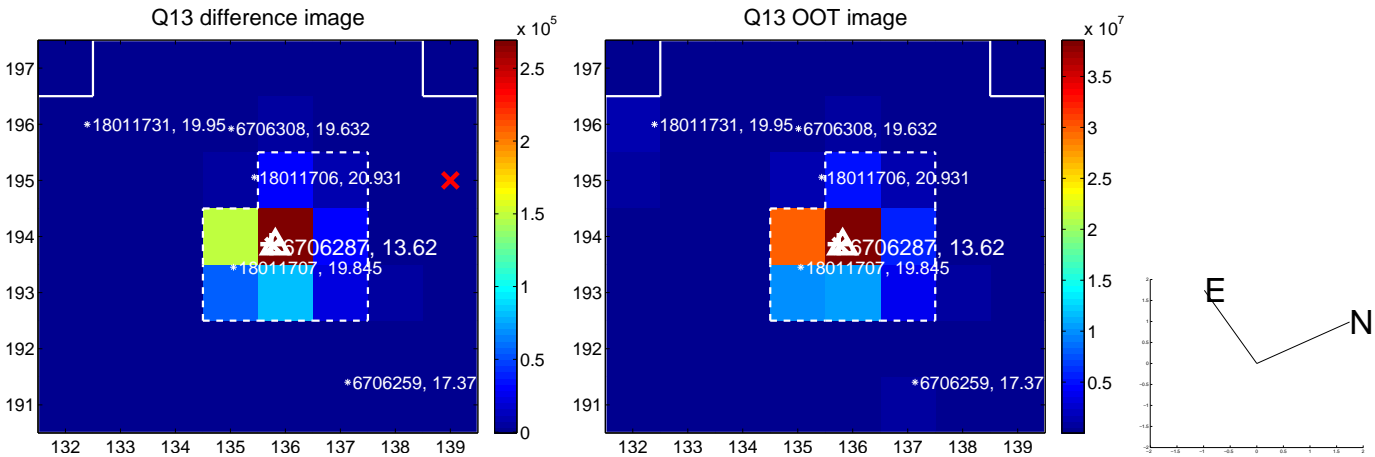
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



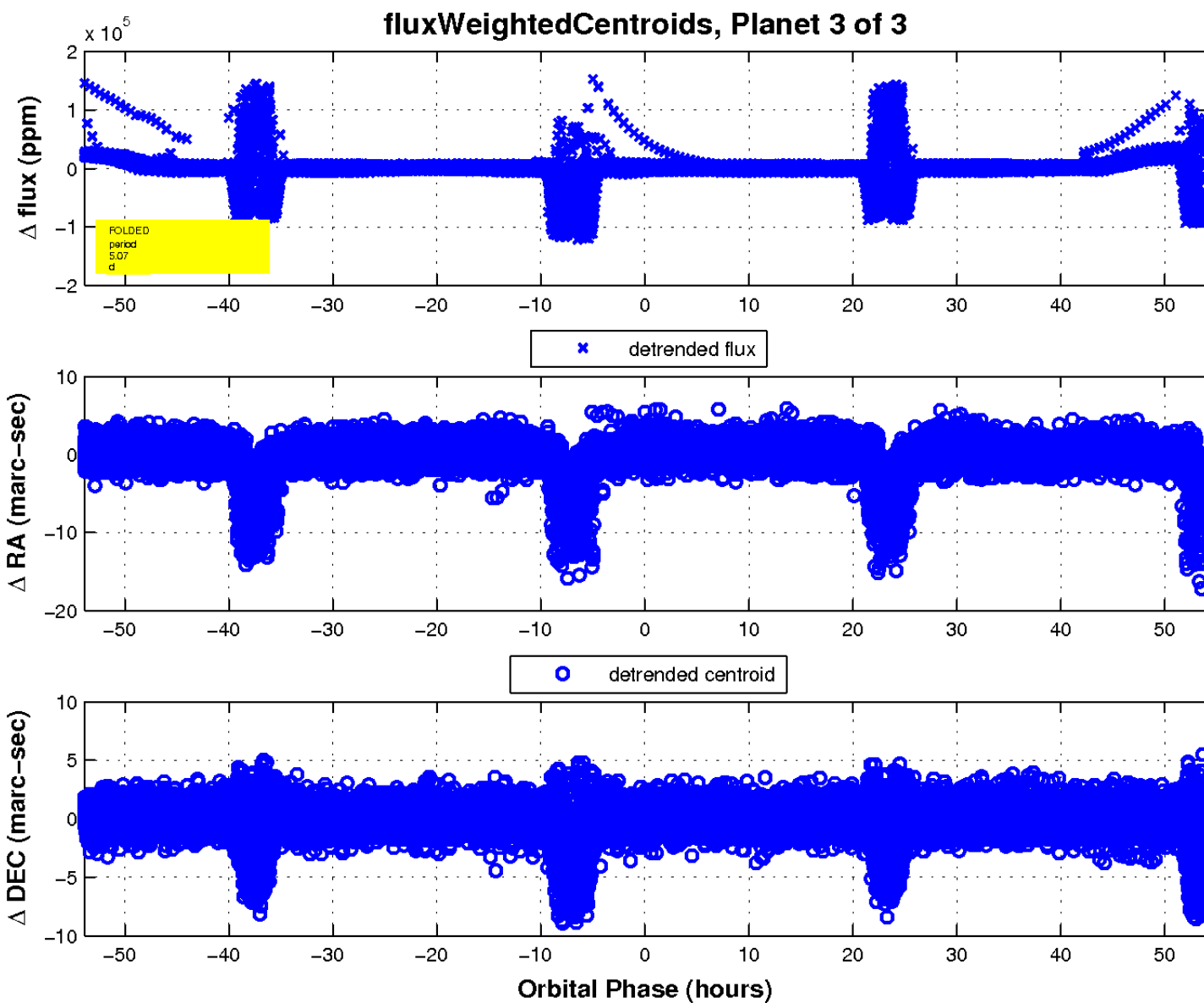
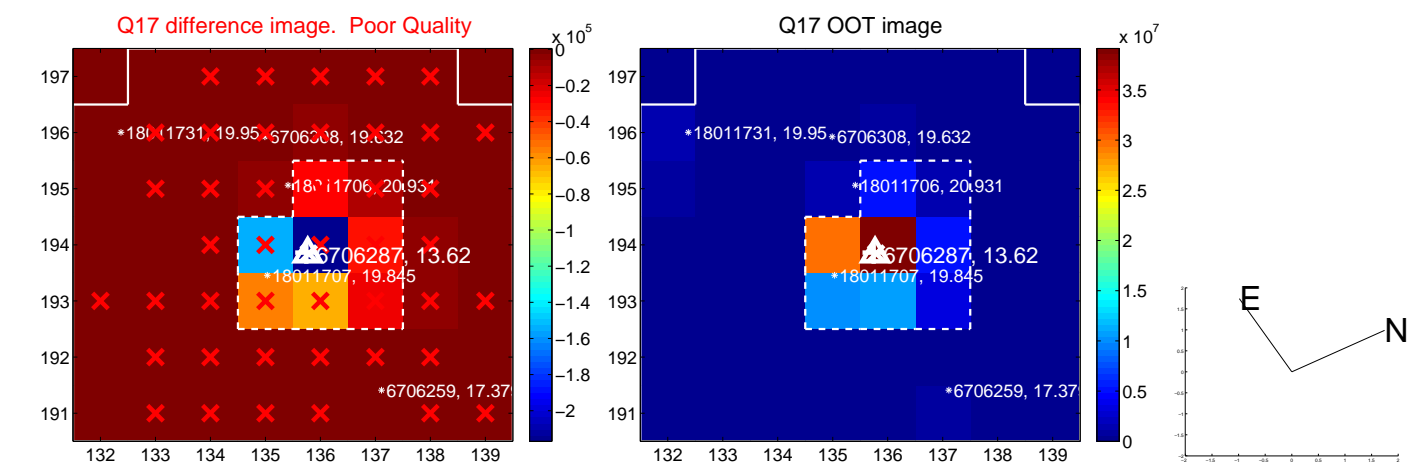
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

