

KIC 003763579

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})
003763579-01	OBS	No	1.271709	132.354348	228.0	6.628	9.3	9.0	2.24	8554	3.45	28194.53
003763579-02	OBS	No	0.645657	131.683138	749.6	1.576	10.8	12.7	2.24	8554	7.12	69611.27
003763579-03	OBS	No	0.645646	131.848494	576.2	1.500	10.8	-1.0	2.24	8554	5.47	69612.85

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003763579-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
003763579-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
003763579-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

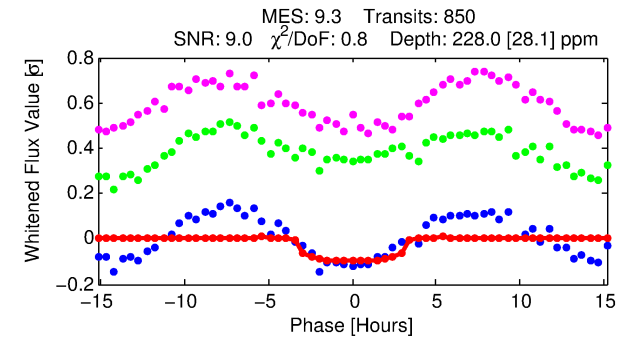
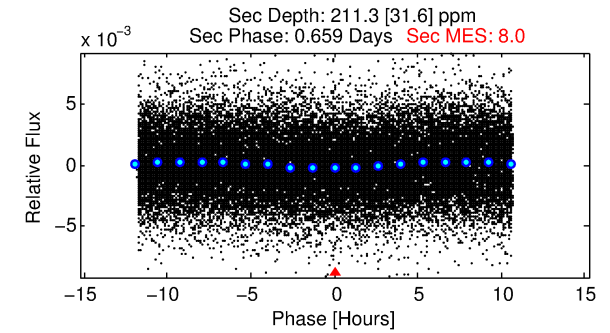
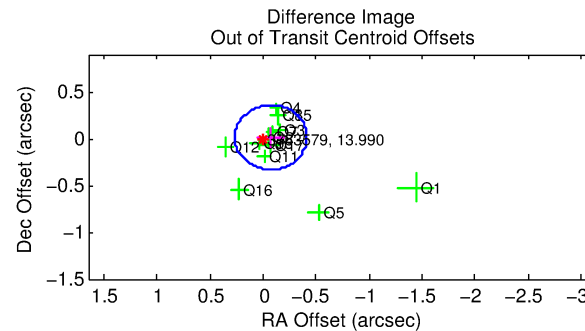
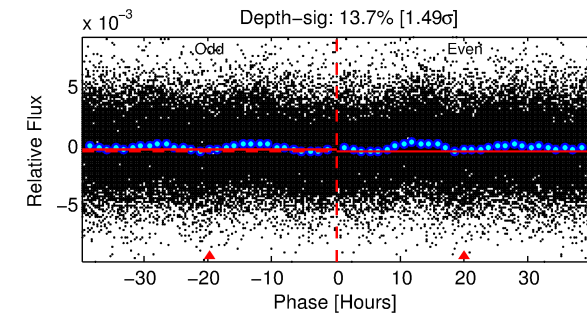
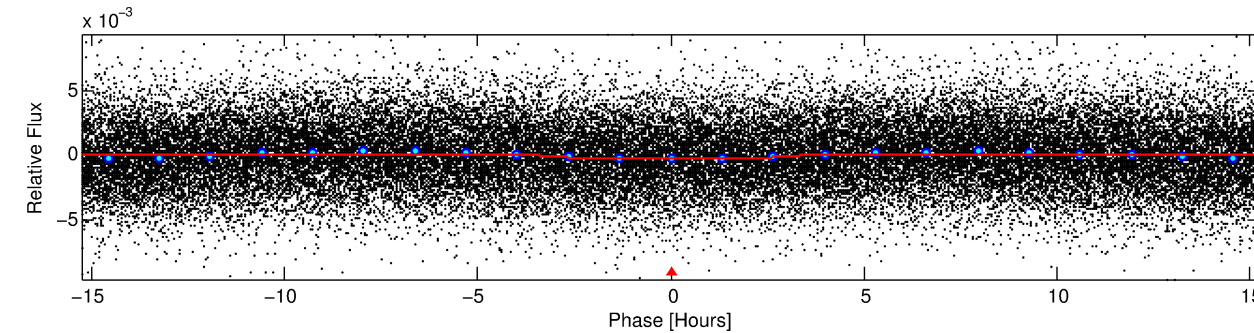
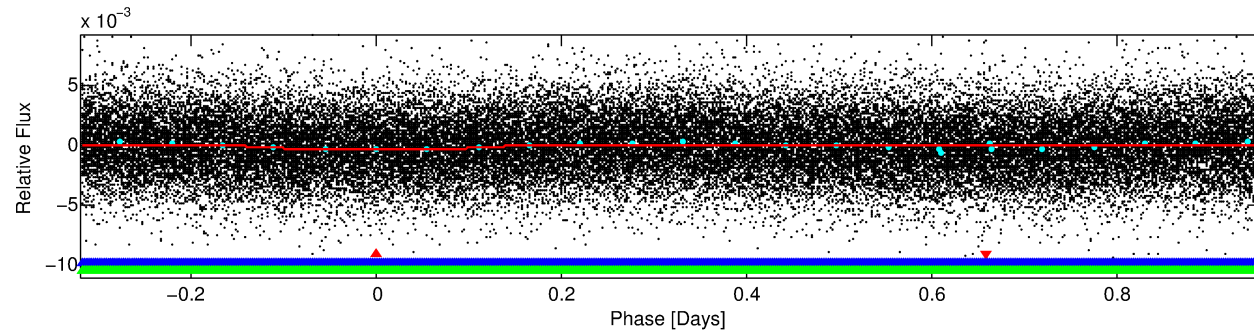
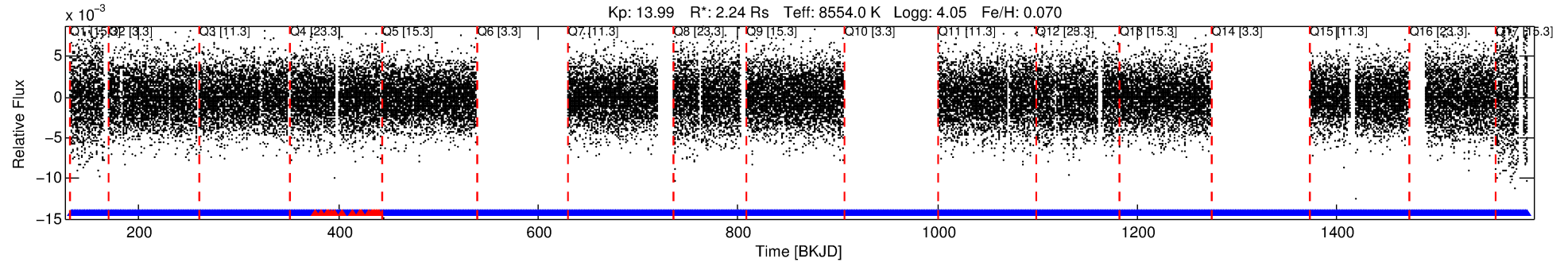
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003763579-01

No Significant Match Found

DV One-Page Summary

KIC: 3763579 Candidate: 1 of 3 Period: 1.272 d



DV Fit Results:

Period = 1.27171 [0.00002] d
Epoch = 132.3543 [0.0076] BKJD
Rp/R* = 0.0141 [0.0223]
a/R* = 1.56 [8.73]
b = 0.30 [28.59]
Seff = 28194.53 [9965.01]
Teff = 3304 [292] K
Rp = 3.45 [5.52] Re
a = 0.0292 [0.0063] AU
Ag = 8.30 [26.29] [0.28 σ]
Teffp = 8671 [6847] K [0.78 σ]

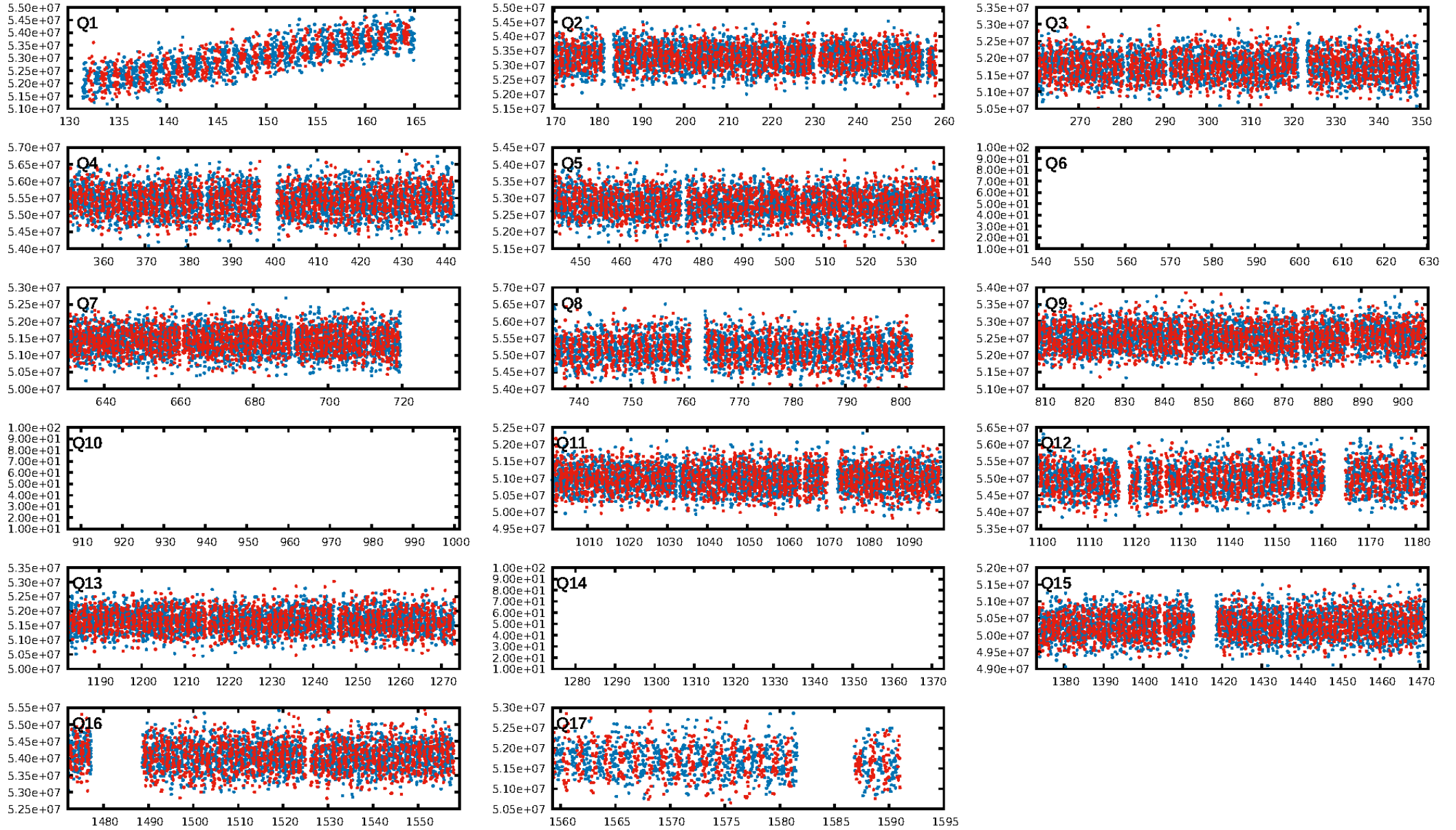
DV Diagnostic Results:

ShortPeriod-sig: 97.3% [2.21 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.98 [783/802]
GhostDiagnostic-chr: 0.6359
Centroid-sig: 84.1%
Centroid-so: 0.184 arcsec [0.99 σ]
OotOffset-rm: 0.072 arcsec [0.63 σ]
OotOffset-st: 1/4/4/5 [14]
KicOffset-rm: 0.195 arcsec [1.93 σ]
KicOffset-st: 1/4/4/5 [14]
DiffImageQuality-fgm: 1.00 [14/14]
DiffImageOverlap-fno: 0.00 [0/14]

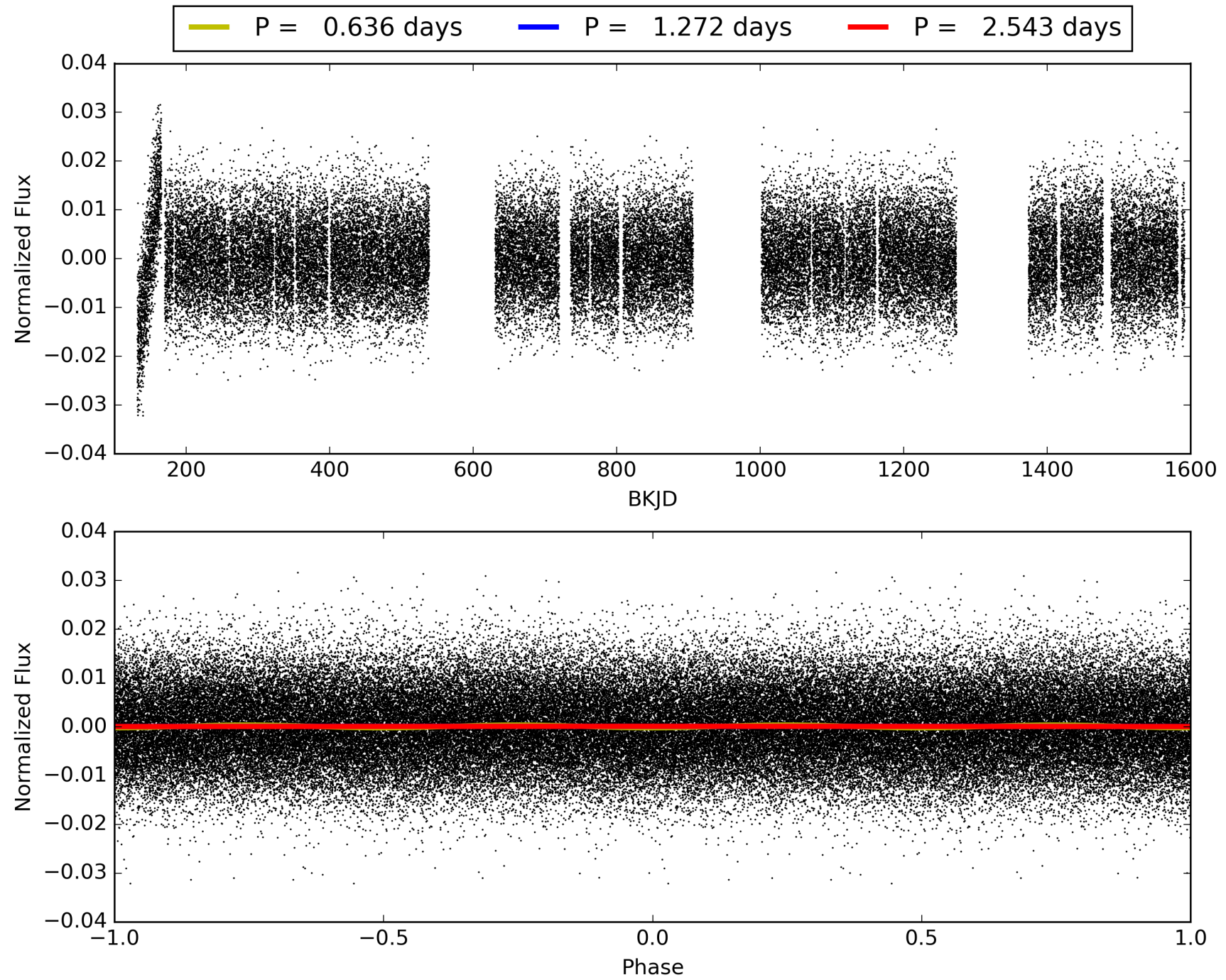
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:38:05 Z

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

TCE 003763579-01, PDC Light Curves

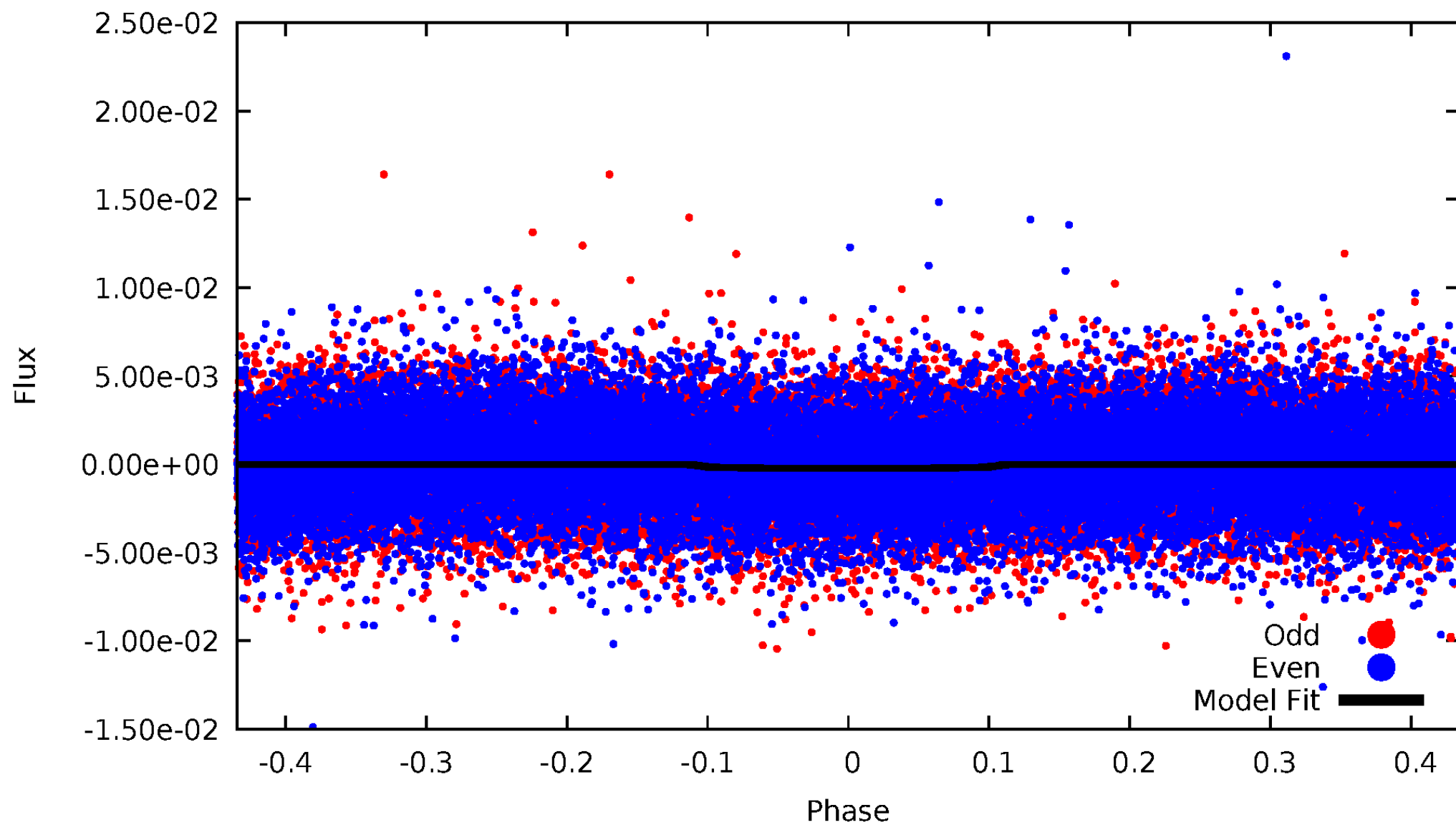


TCE 003763579-01



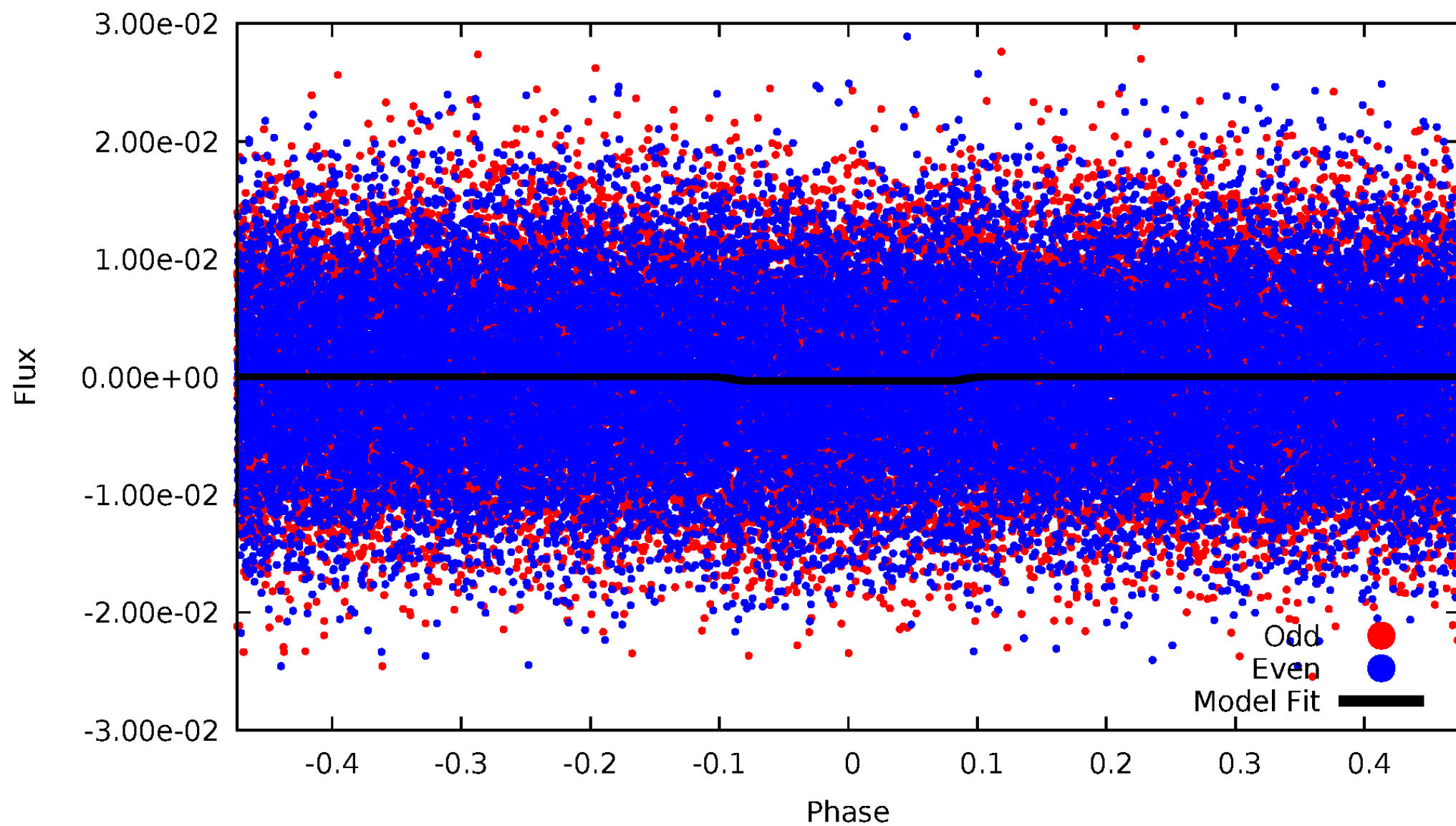
DV Odd/Even

TCE 003763579-01



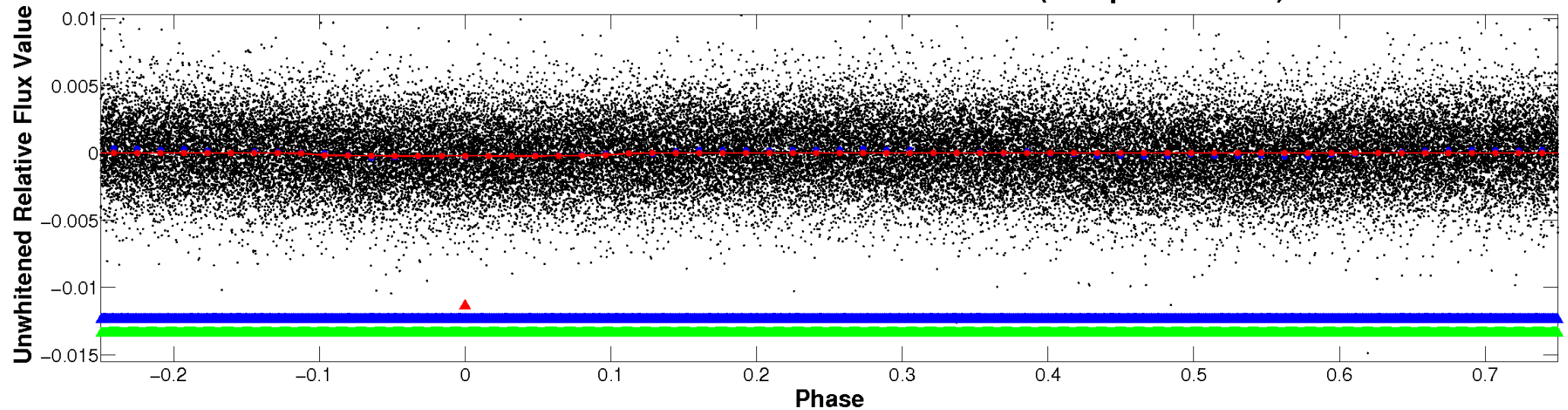
ALT Odd/Even

TCE 003763579-01

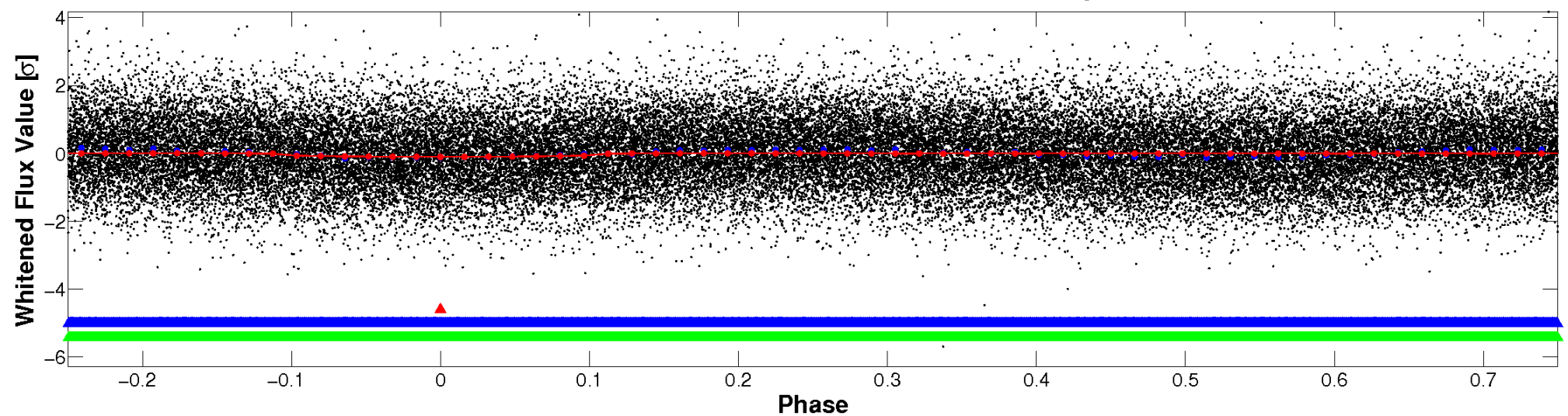


Non-Whitened Vs. Whitened Light Curve

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

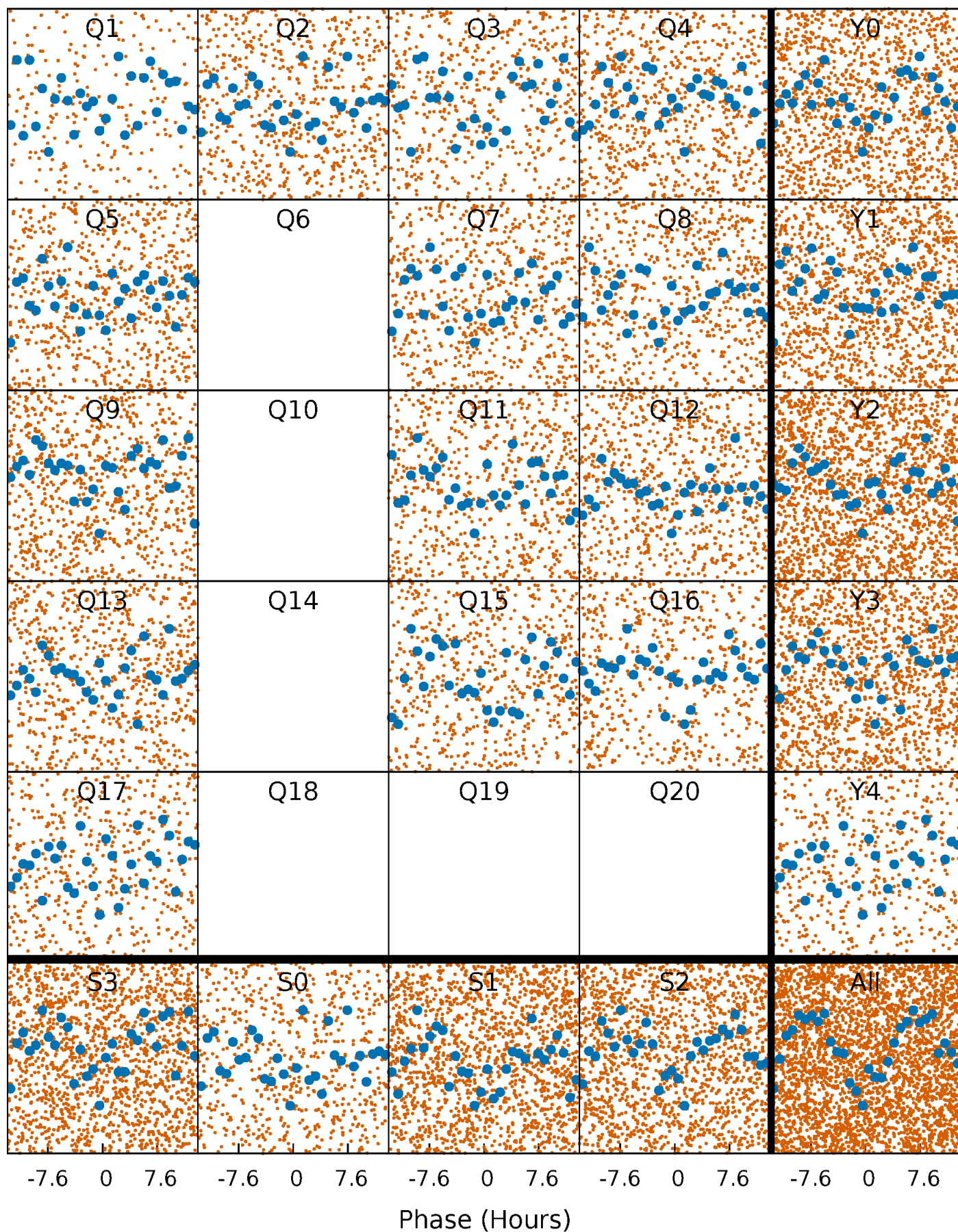


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



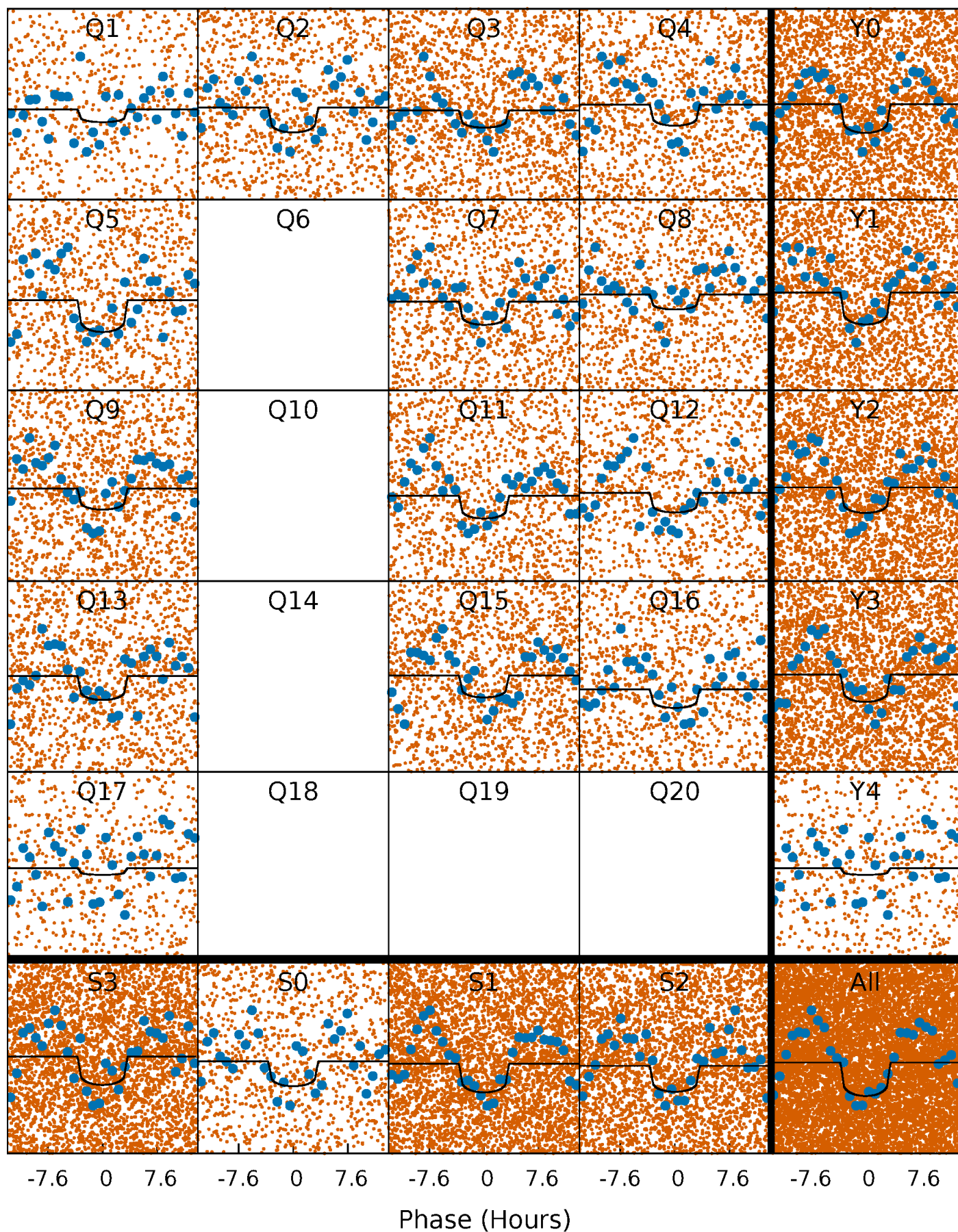
PDC Quarter-Phased Transit Curves

TCE 003763579-01 P= 1.271709 Days $T_0=132.354348$ (BKJD)



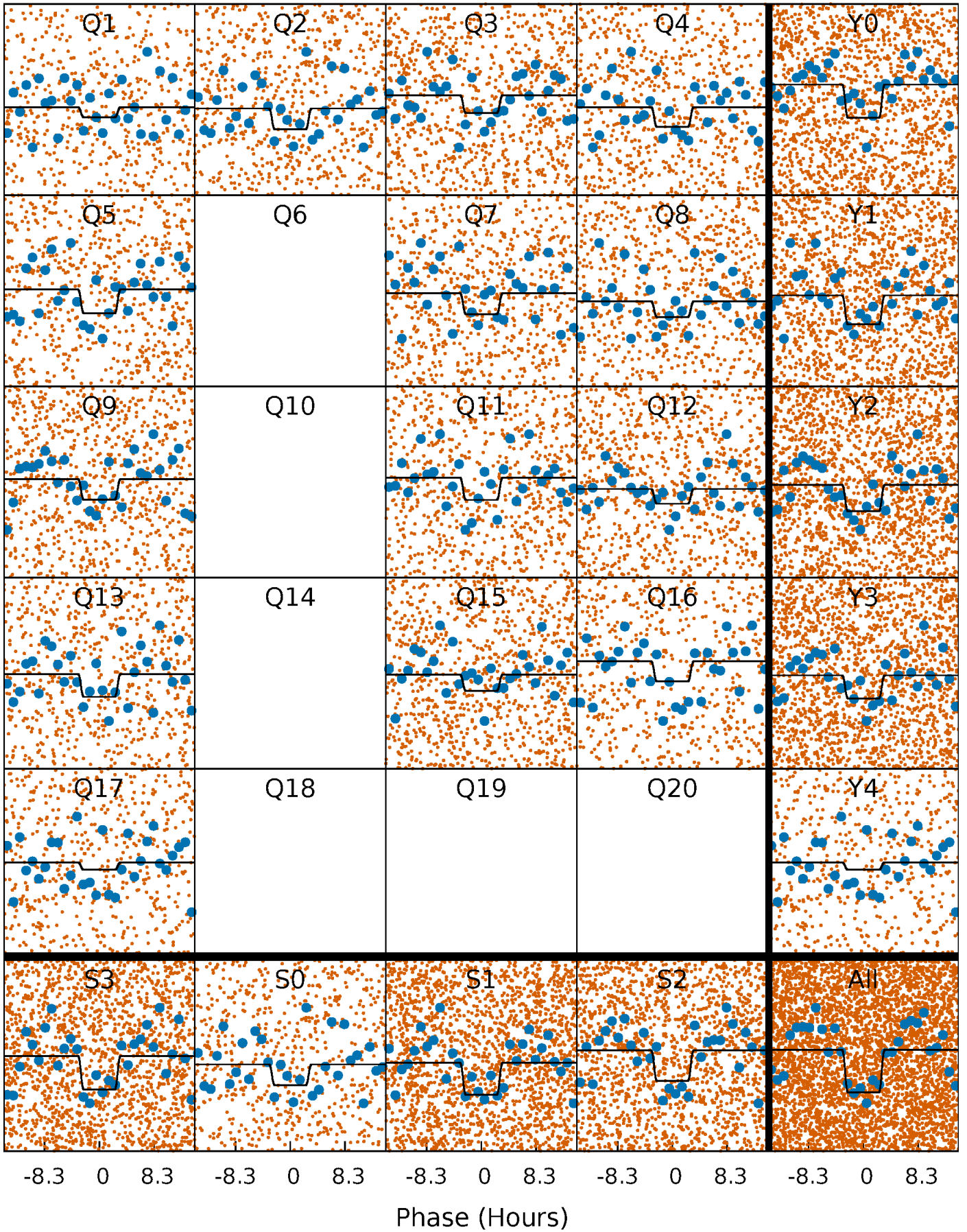
DV Quarter-Phased Transit Curves

TCE 003763579-01 P= 1.271709 Days $T_0=132.354348$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

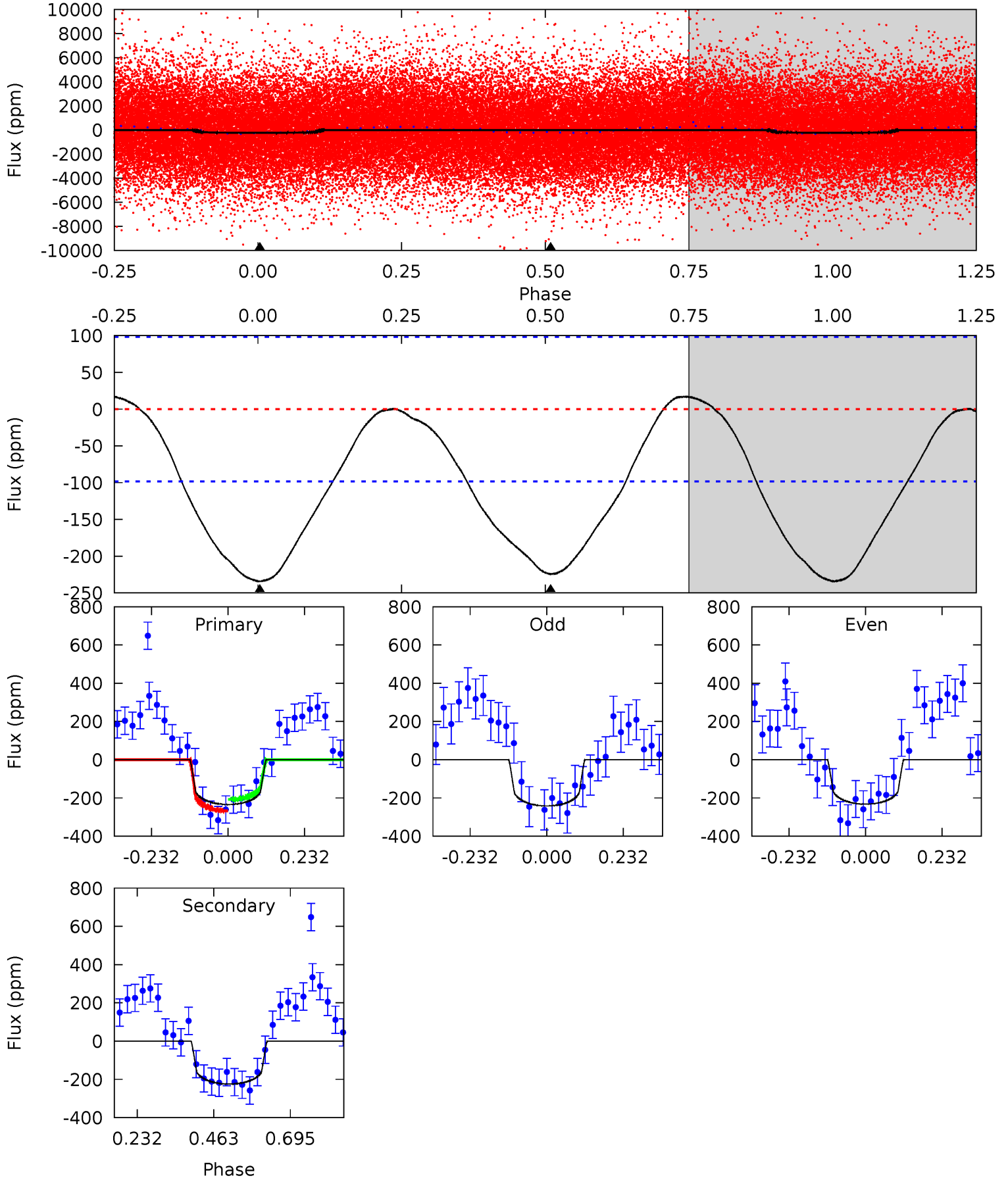
TCE 003763579-01 P= 1.271763 Days $T_0=132.311636$ (BKJD)



DV Model-Shift Uniqueness Test

003763579-01, P = 1.271709 Days, E = 131.082639 Days

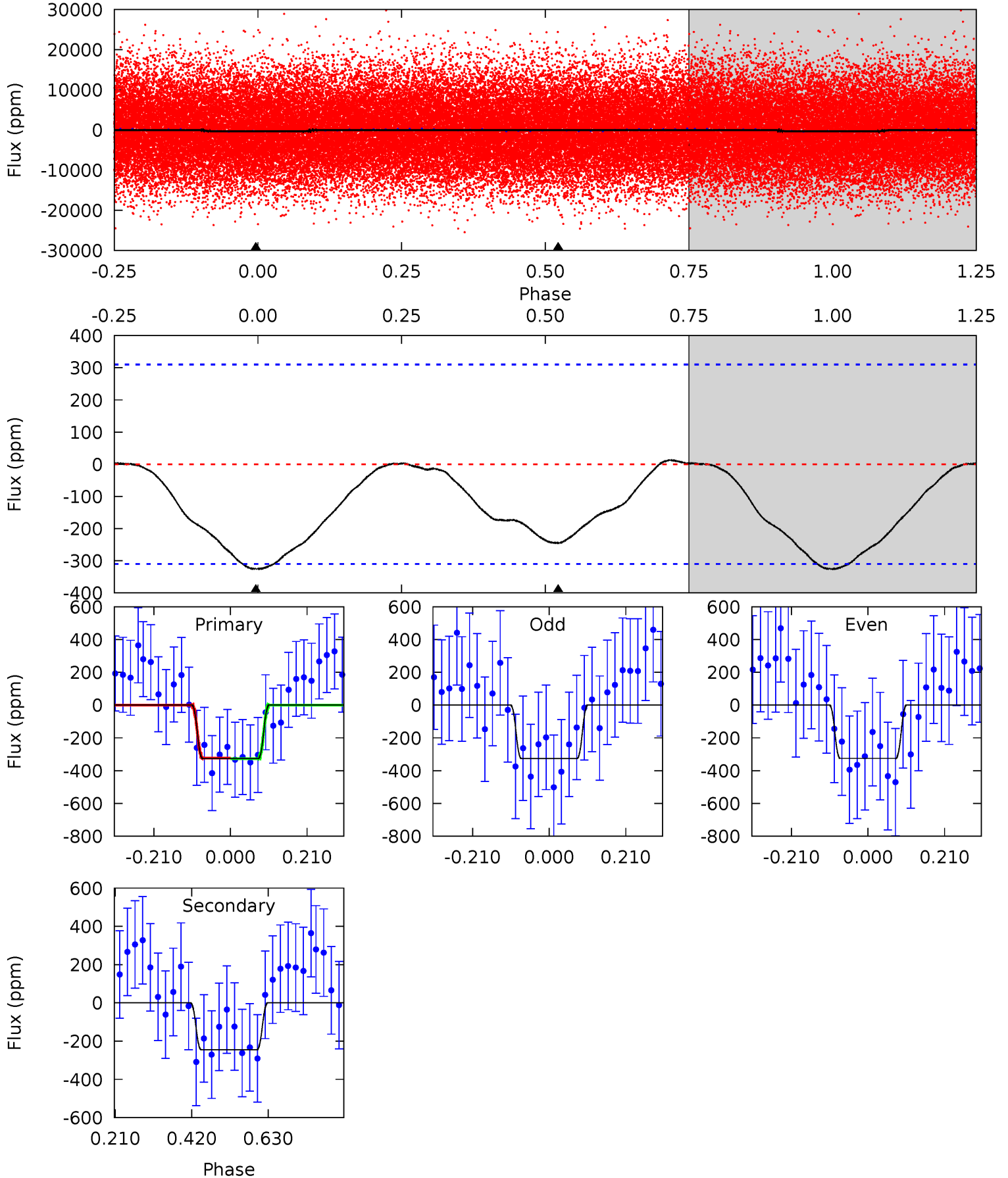
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.5	10.0	0	0	4.39	1.20	0.52	10.5	10.5	10.0	10.0	0.22	0.99	0.07	1.36



Alt Model-Shift Uniqueness Test

003763579-01, P = 1.271763 Days, E = 131.039873 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.63	3.48	0	0	4.41	1.25	0.10	4.63	4.63	3.48	3.48	0.00	1.01	0.04	0.03



Stellar Parameters For KIC 003763579

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8554^{+235}_{-404}	$4.050^{+0.155}_{-0.140}$	$0.070^{+0.250}_{-0.550}$	$2.237^{+0.551}_{-0.606}$	$2.049^{+0.331}_{-0.497}$	$0.258^{+0.240}_{-0.106}$
	+3%/-5%	+4%/-3%	+357%/-786%	+25%/-27%	+16%/-24%	+93%/-41%
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 003763579-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-224 ± 22	$5.05^{+4.67}_{-3.28}$	4593^{+313}_{-340}	6785^{+8166}_{-2045}	$4.195^{+29.922}_{-3.136}$
Alt.	-245 ± 70	$5.72^{+5.05}_{-3.70}$	4603^{+315}_{-358}	6438^{+7079}_{-1860}	$3.466^{+23.269}_{-2.556}$

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 $A_{obs} \gg 1.0$

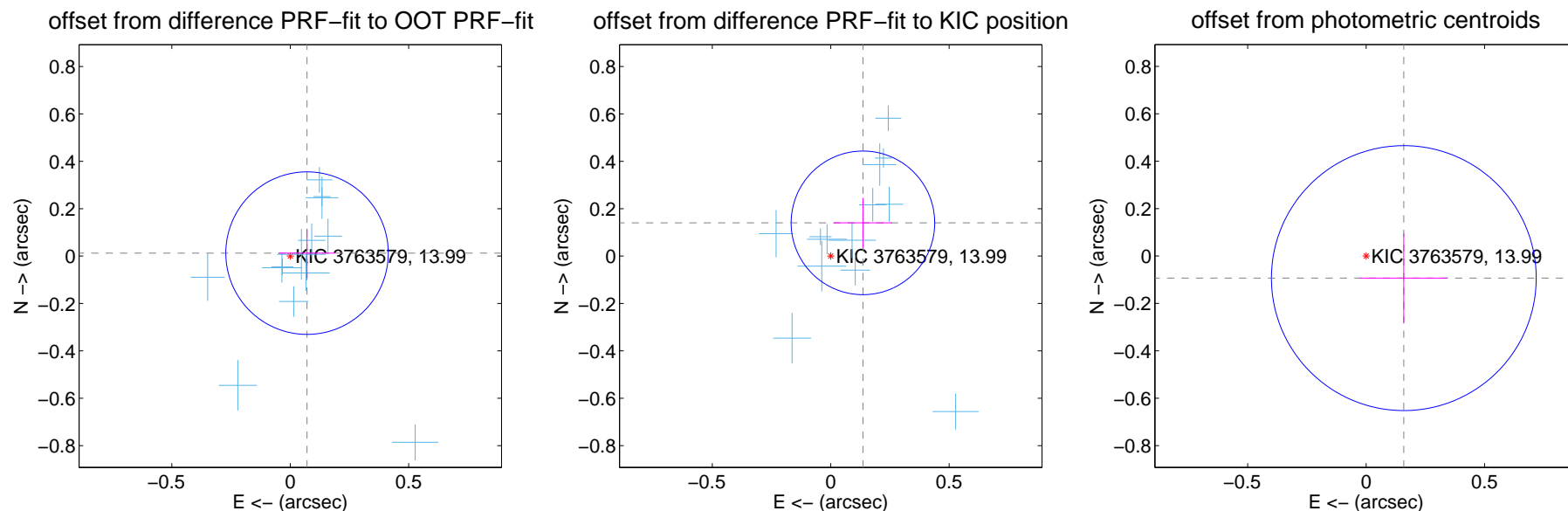
DV Centroid Data

Supplemental centroid analysis for 003763579-01. Kepler magnitude: 13.99. Transit SNR 8.96

There are 14 quarters with good PRF difference image offsets

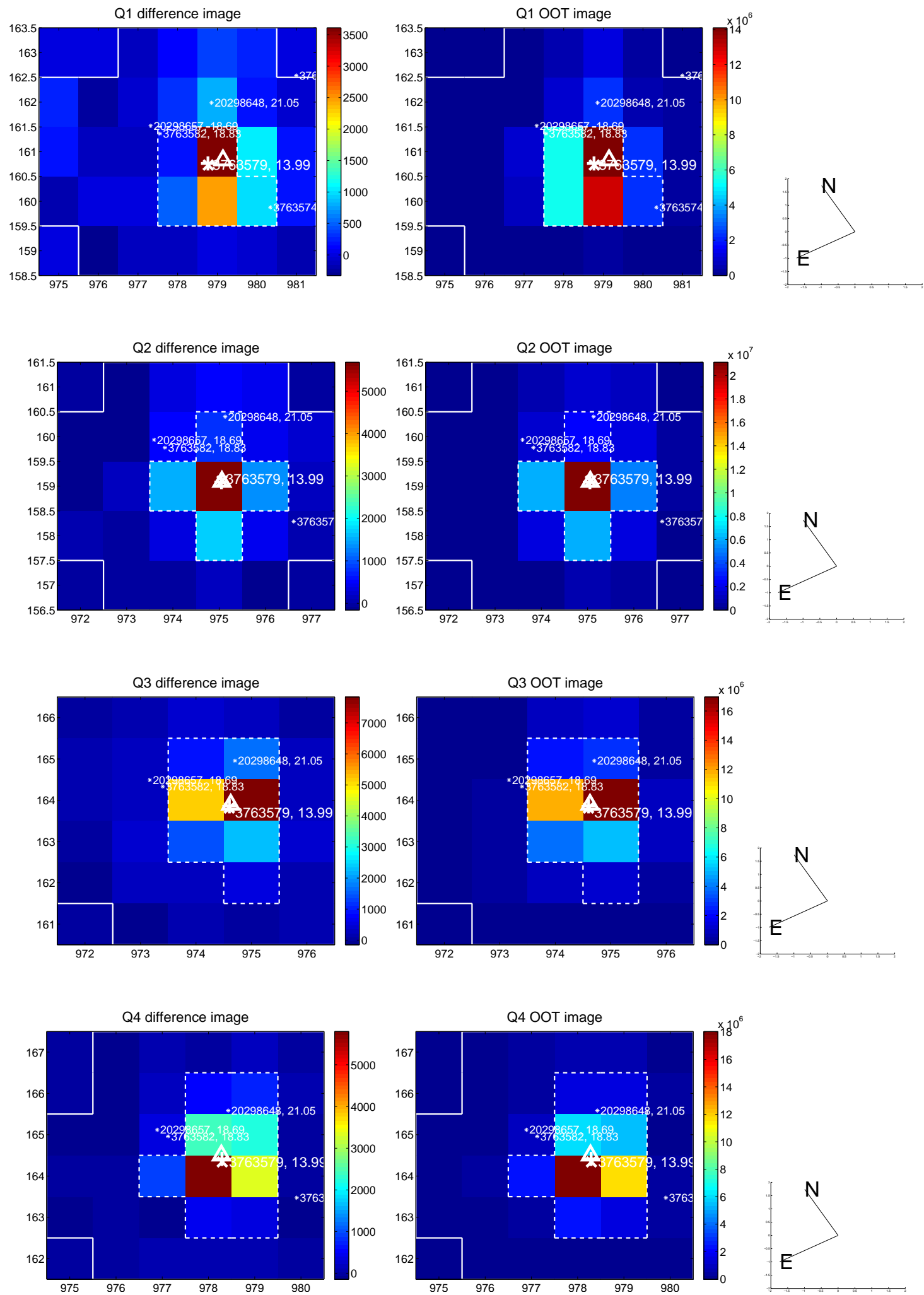
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.072 ± 0.114	0.63	-0.071 ± 0.120	0.012 ± 0.103
PRF-fit source offset from KIC position	0.195 ± 0.101	1.93	-0.136 ± 0.124	0.140 ± 0.106
photometric centroid source offset	0.18 ± 0.19	0.99	-0.16 ± 0.19	-0.09 ± 0.19

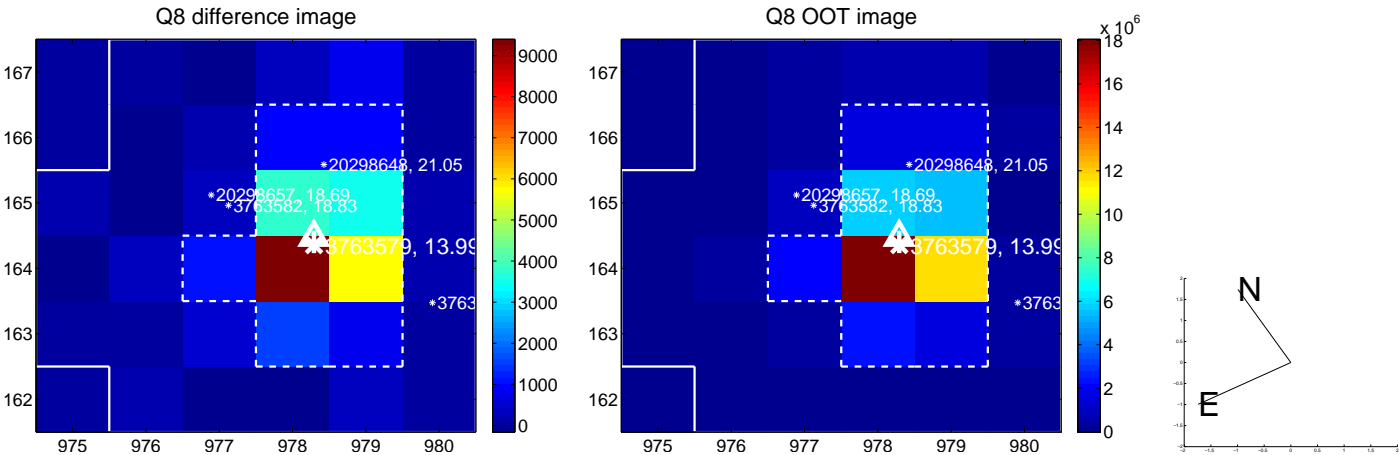
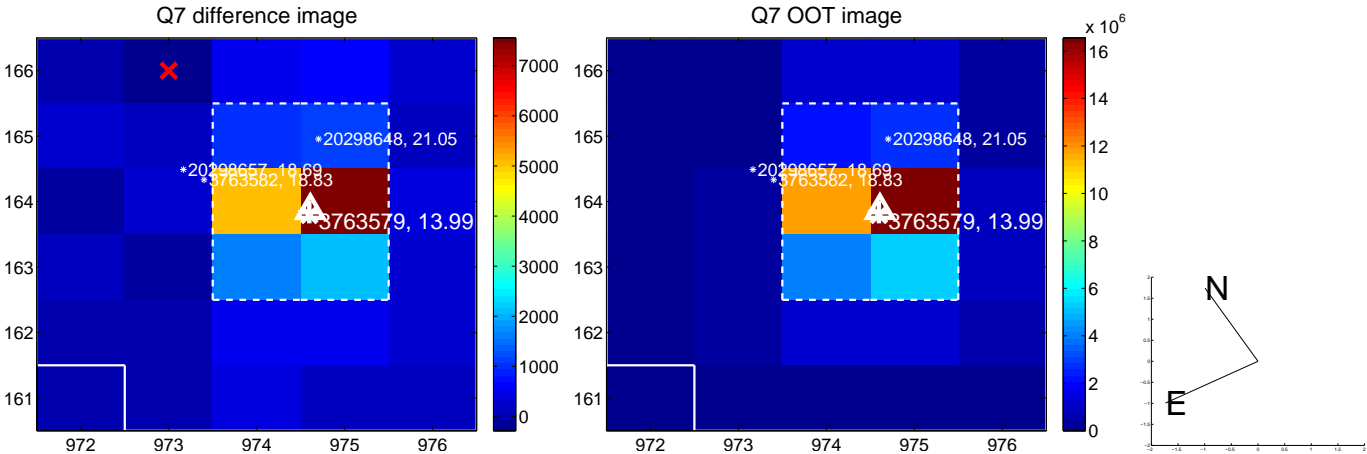
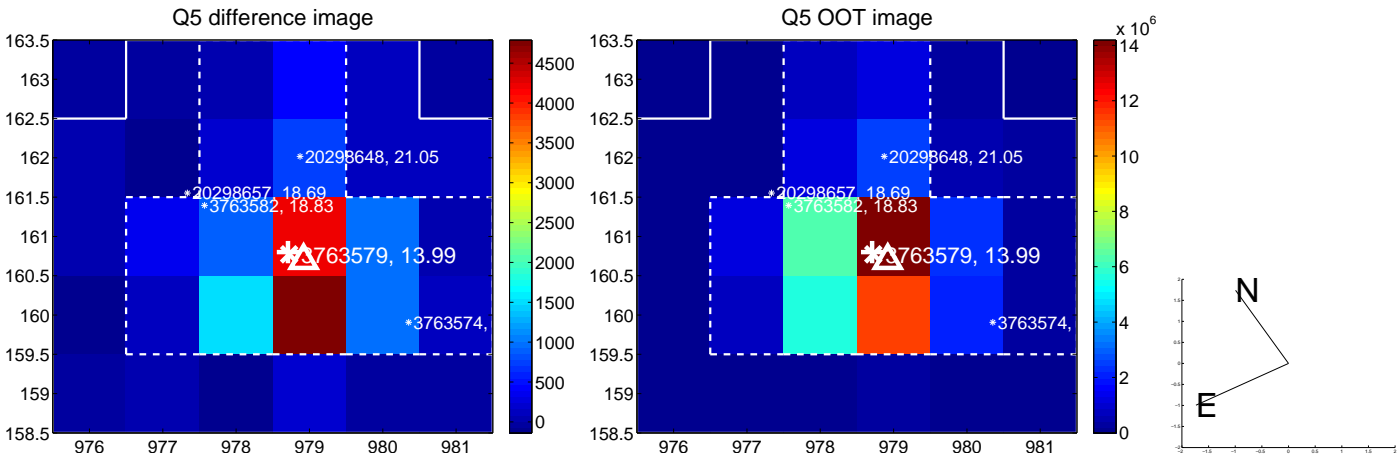


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

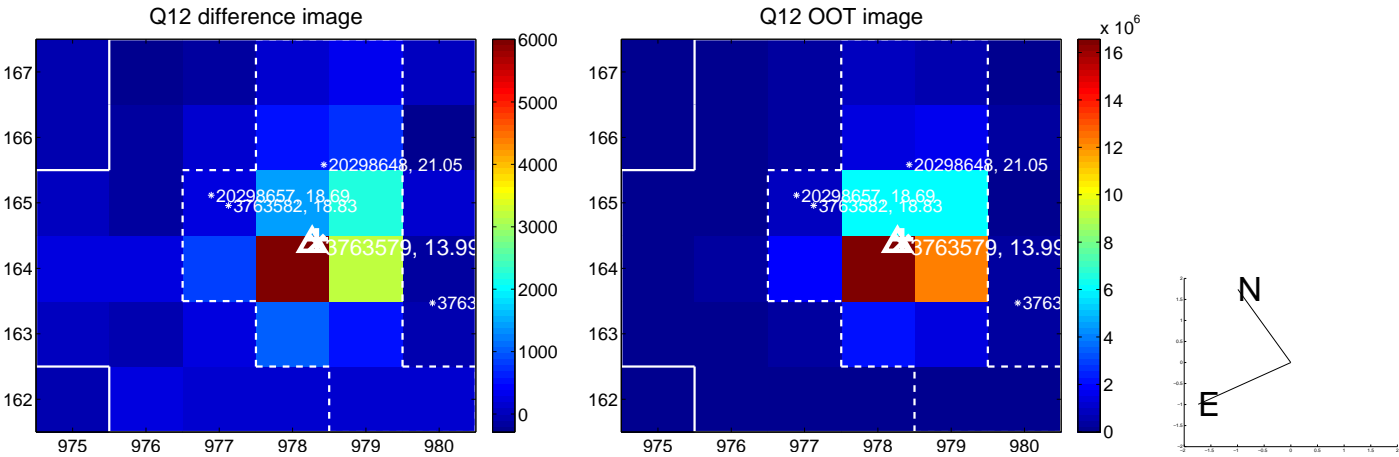
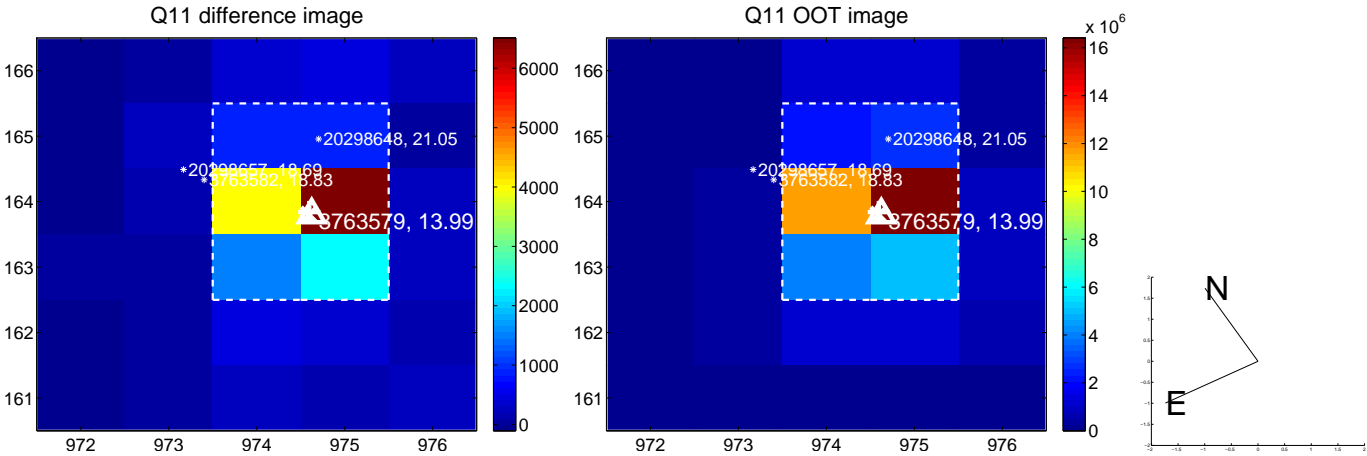
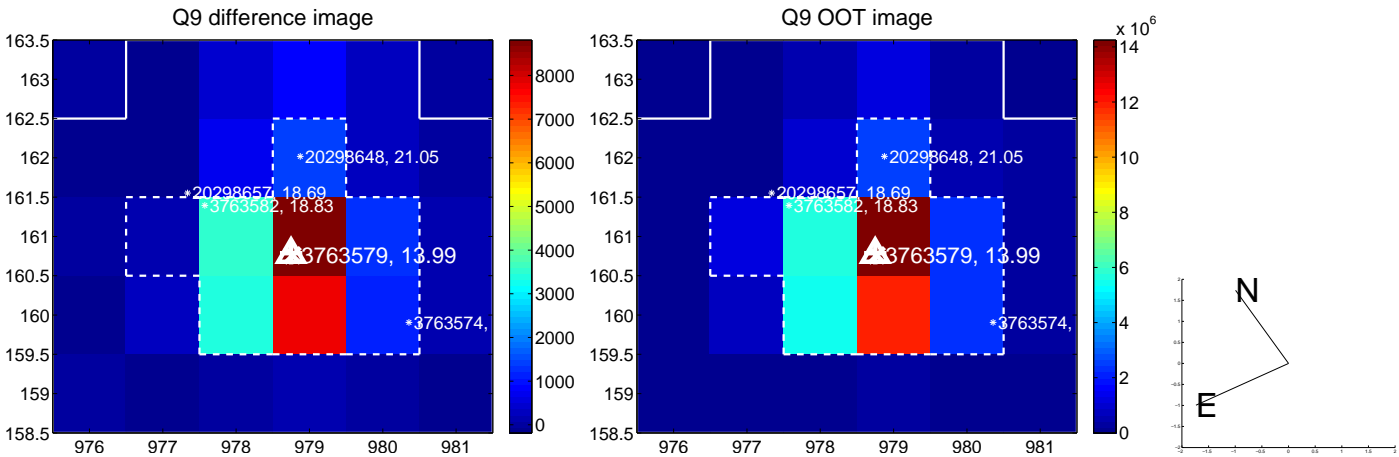
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



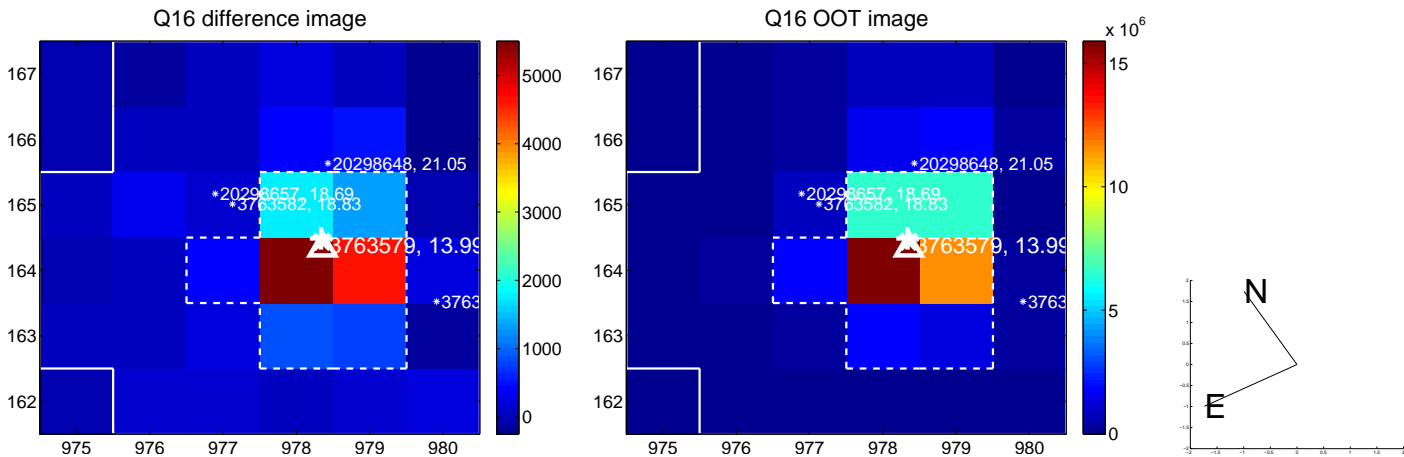
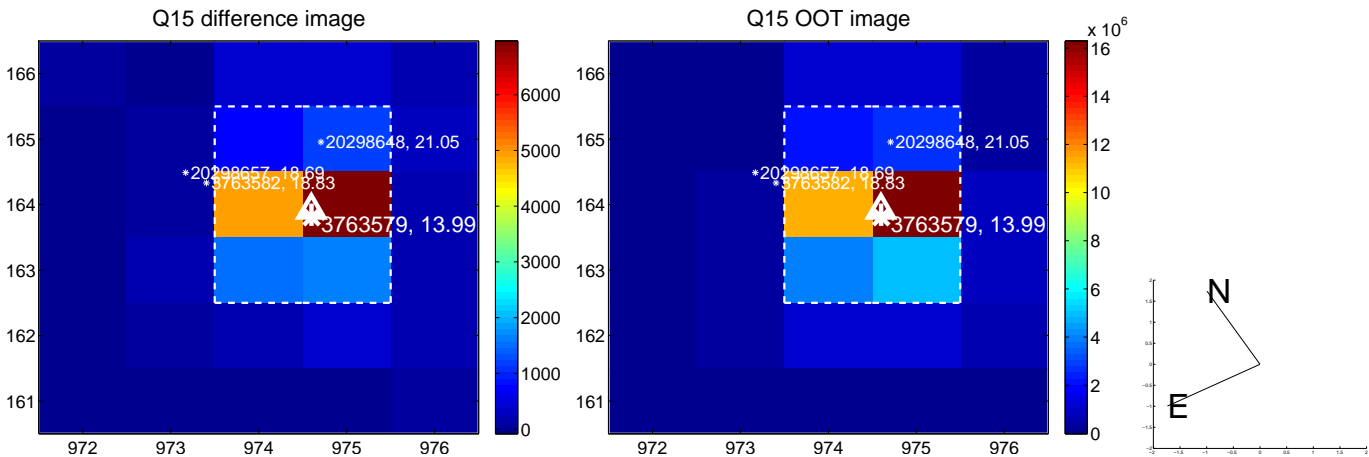
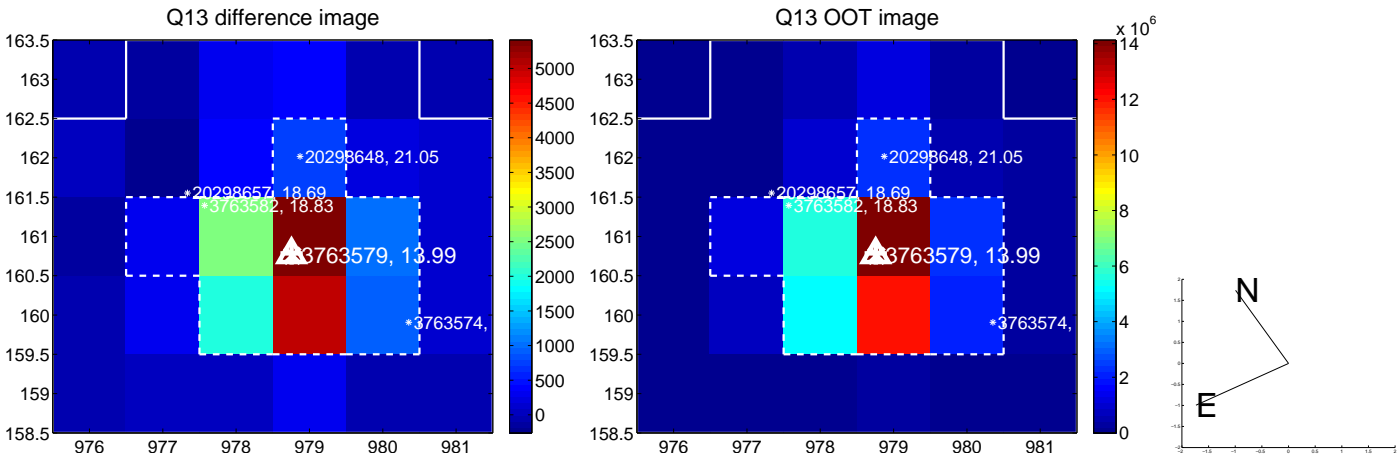
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



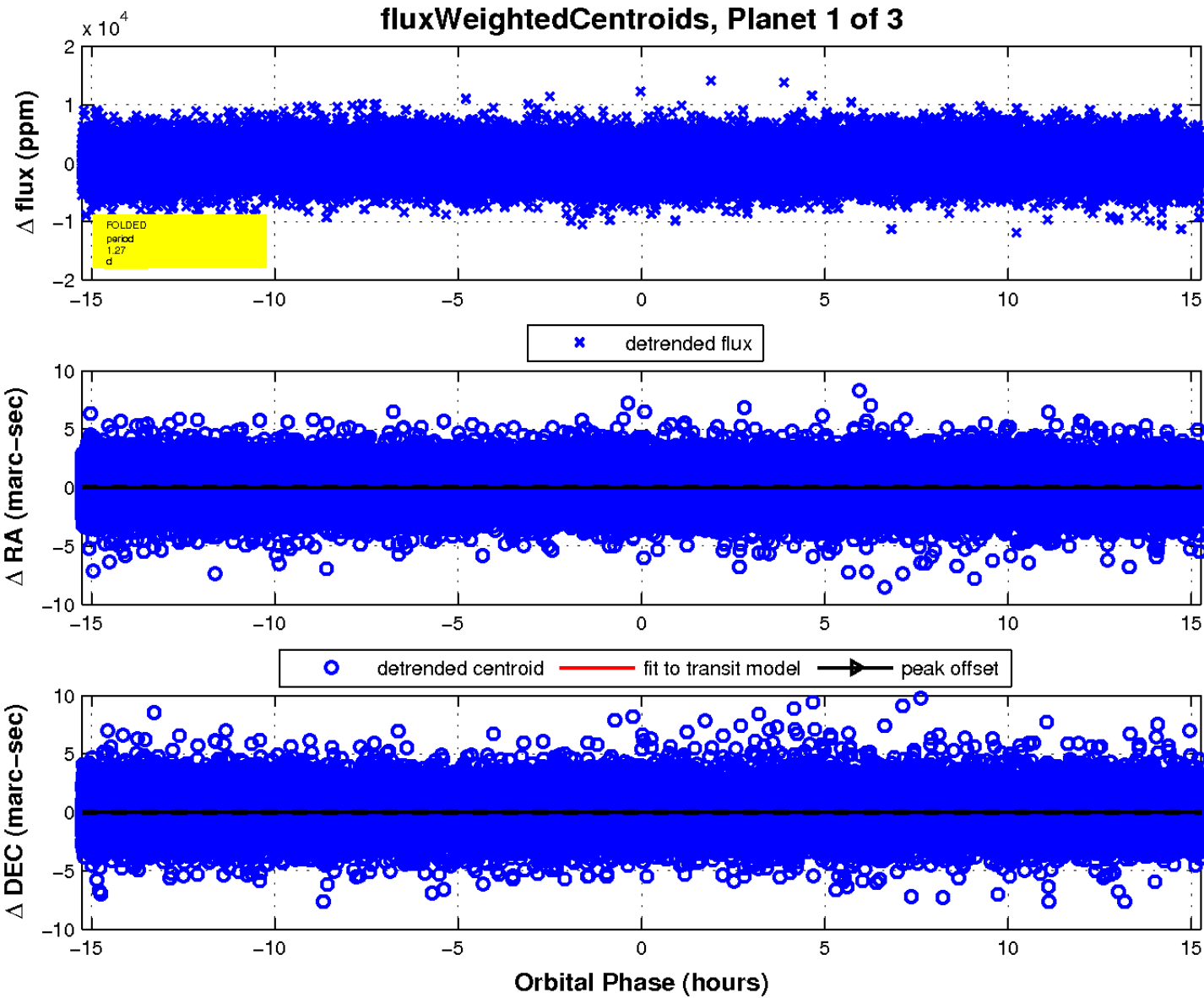
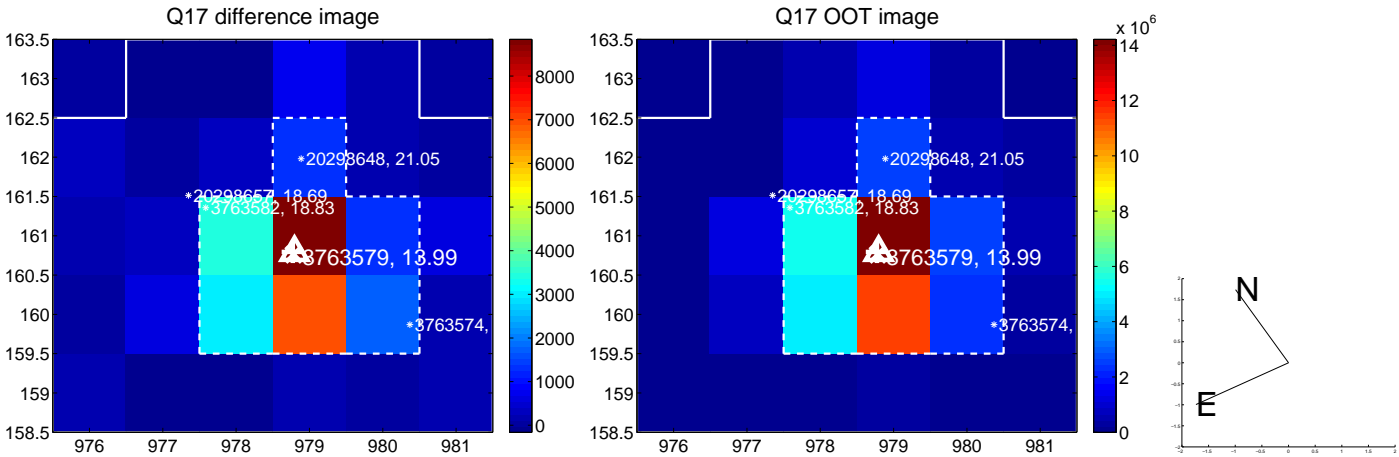
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

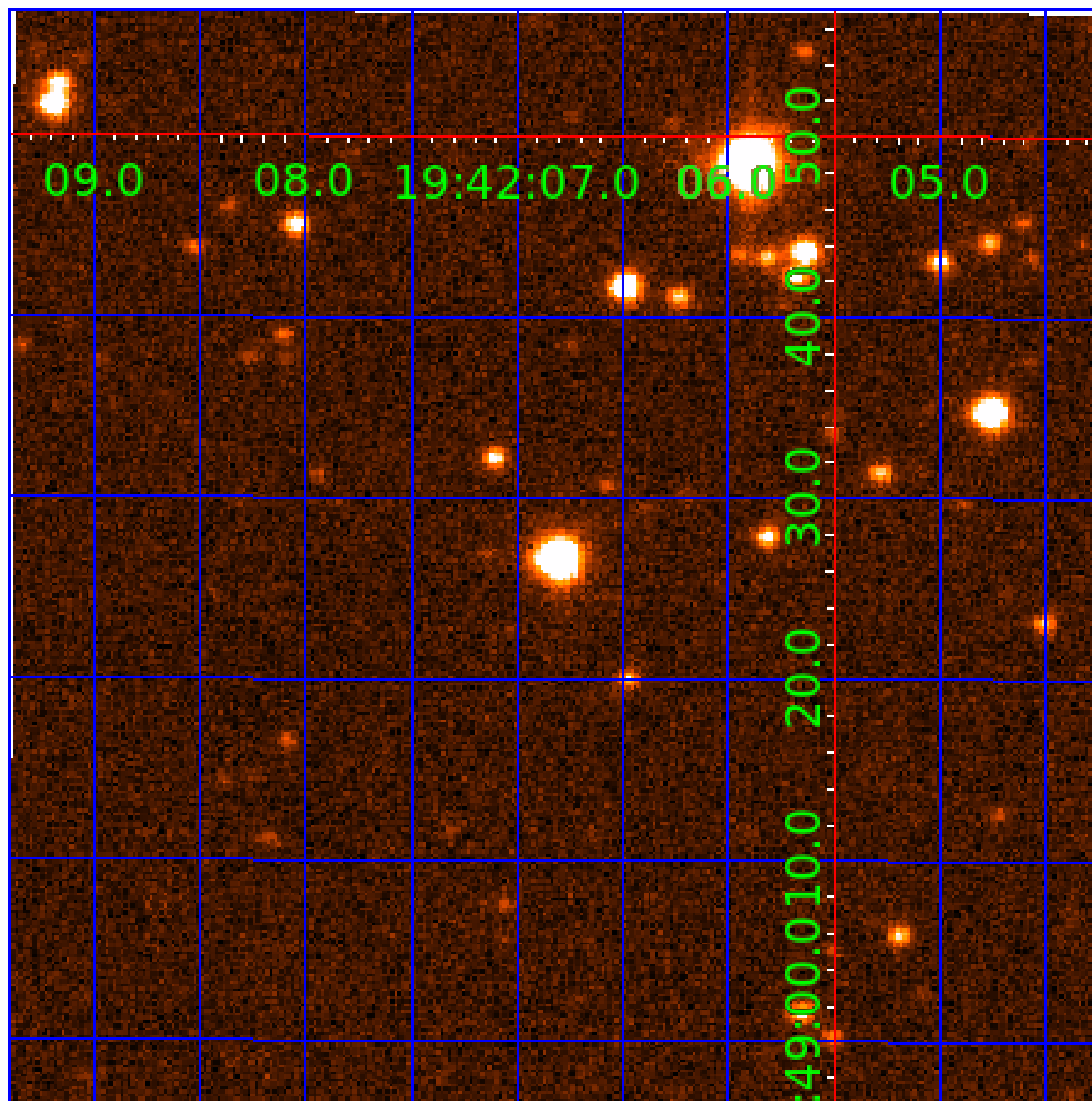


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003763579

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})
003763579-01	OBS	No	1.271709	132.354348	228.0	6.628	9.3	9.0	2.24	8554	3.45	28194.53
003763579-02	OBS	No	0.645657	131.683138	749.6	1.576	10.8	12.7	2.24	8554	7.12	69611.27
003763579-03	OBS	No	0.645646	131.848494	576.2	1.500	10.8	-1.0	2.24	8554	5.47	69612.85

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003763579-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
003763579-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
003763579-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

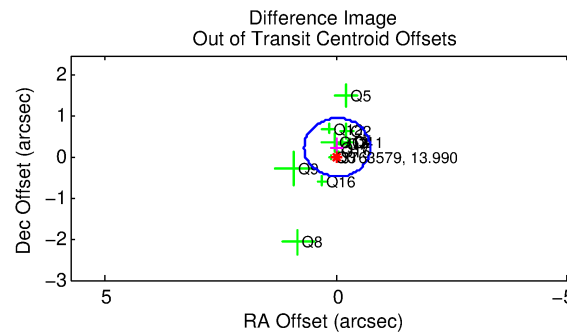
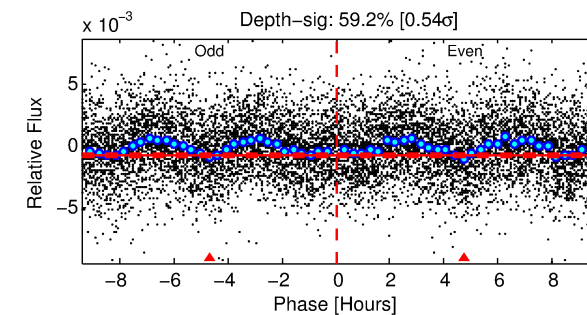
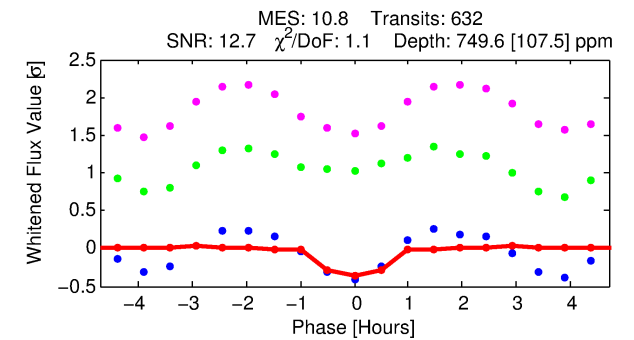
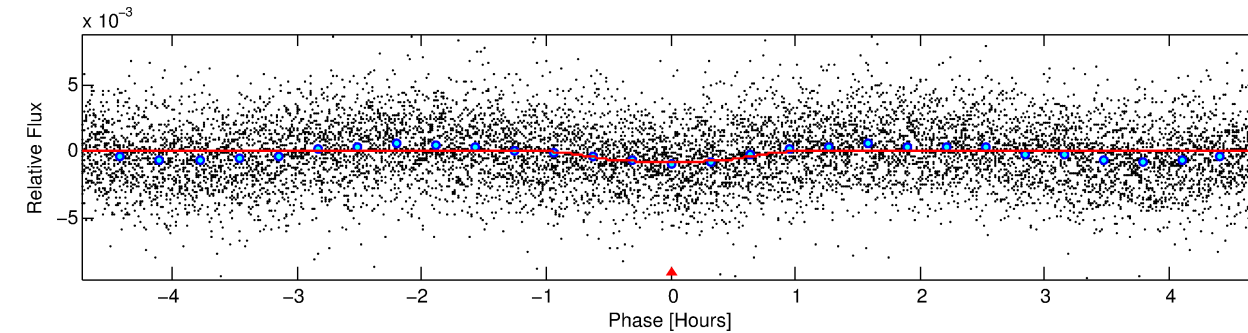
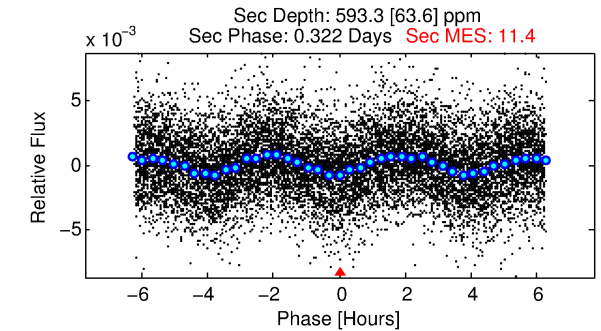
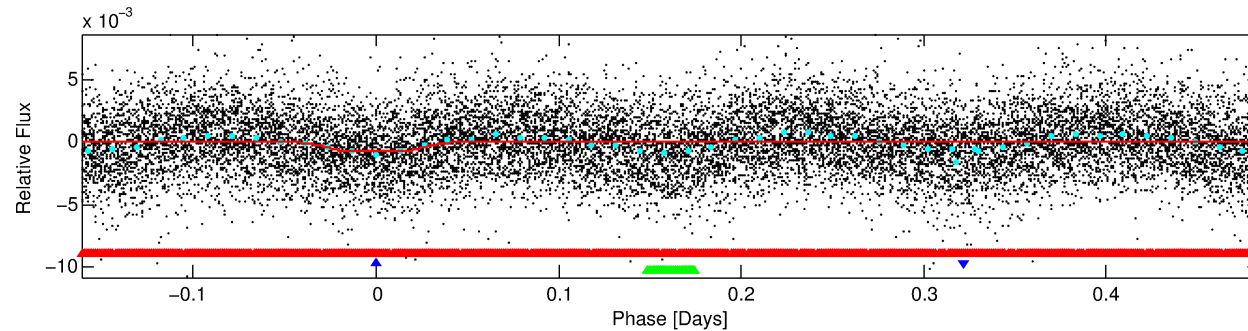
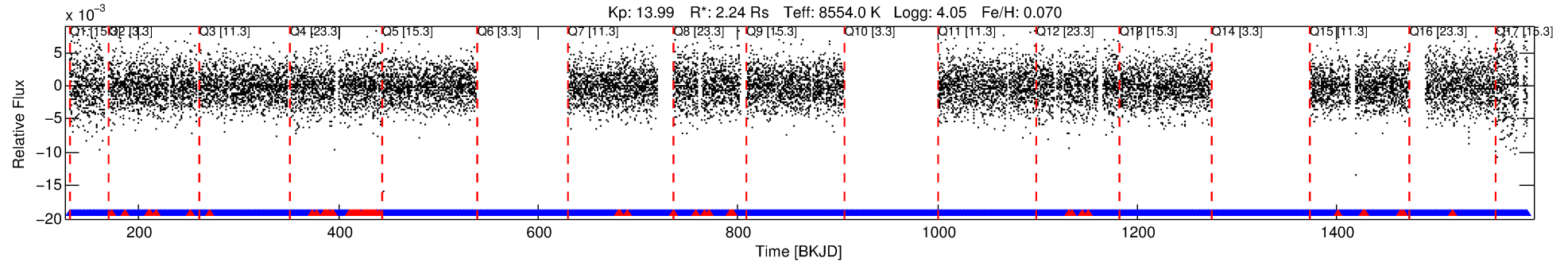
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003763579-02

No Significant Match Found

DV One-Page Summary

KIC: 3763579 Candidate: 2 of 3 Period: 0.646 d



DV Fit Results:

Period = 0.64566 [0.00001] d
Epoch = 131.6831 [0.0022] BKJD
Rp/R* = 0.0292 [0.0084]
a/R* = 1.83 [2.21]
b = 0.90 [0.37]
Seff = 69611.27 [24603.26]
Teq = 4142 [366] K
Rp = 7.12 [2.81] Re
a = 0.0186 [0.0040] AU
Ag = 2.22 [1.46] [0.84σ]
Teffp = 7815 [1200] K [2.93σ]

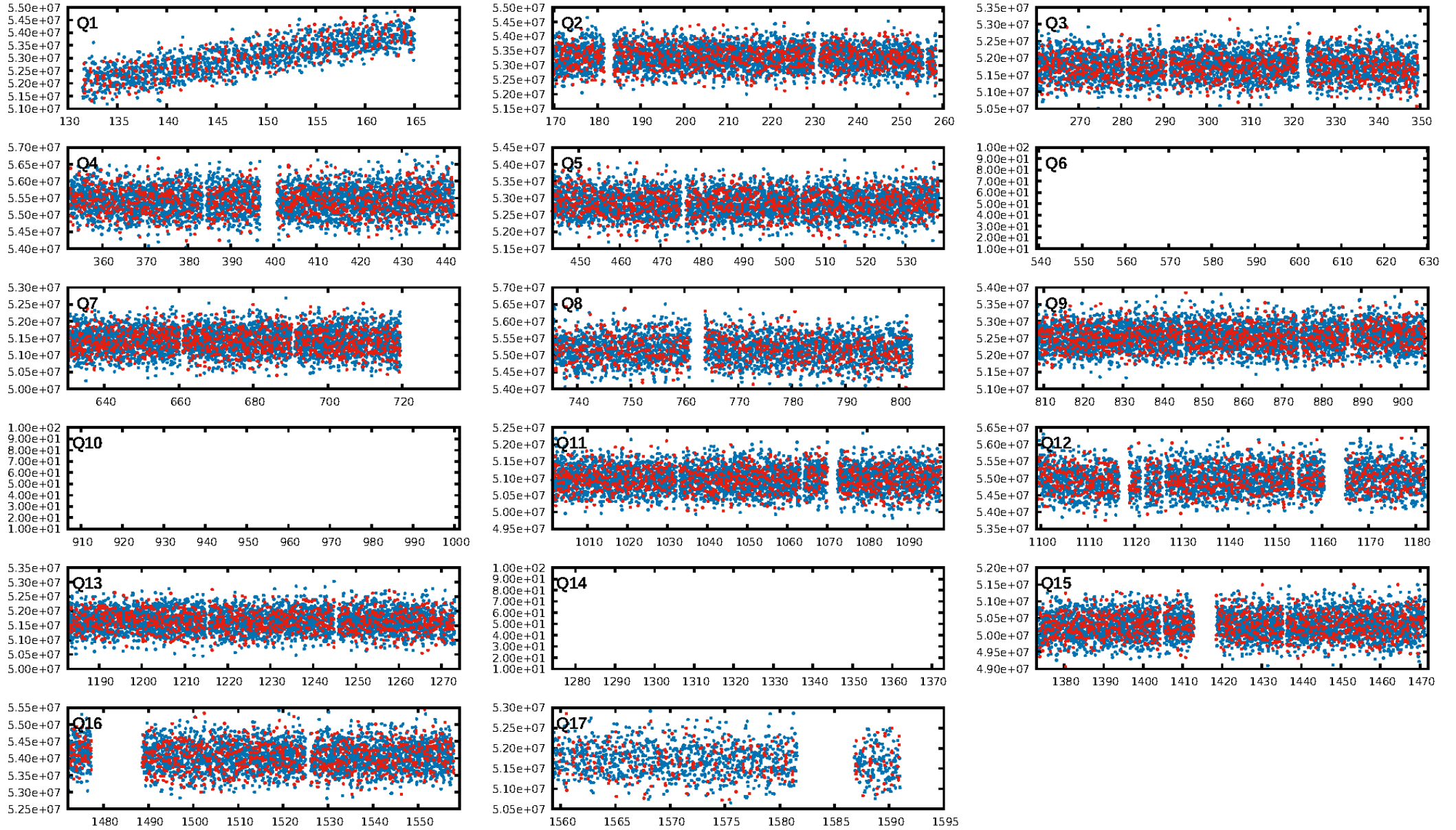
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 97.3% [2.21σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.91 [541/597]
GhostDiagnostic-chr: 2.508
Centroid-sig: 1.2%
Centroid-so: 0.119 arcsec [1.36σ]
OotOffset-rm: 0.246 arcsec [1.03σ]
OotOffset-st: 1/4/4/4 [13]
KicOffset-rm: 0.395 arcsec [1.63σ]
KicOffset-st: 1/4/4/4 [13]
DiffImageQuality-fgm: 0.85 [11/13]
DiffImageOverlap-fno: 0.00 [0/14]

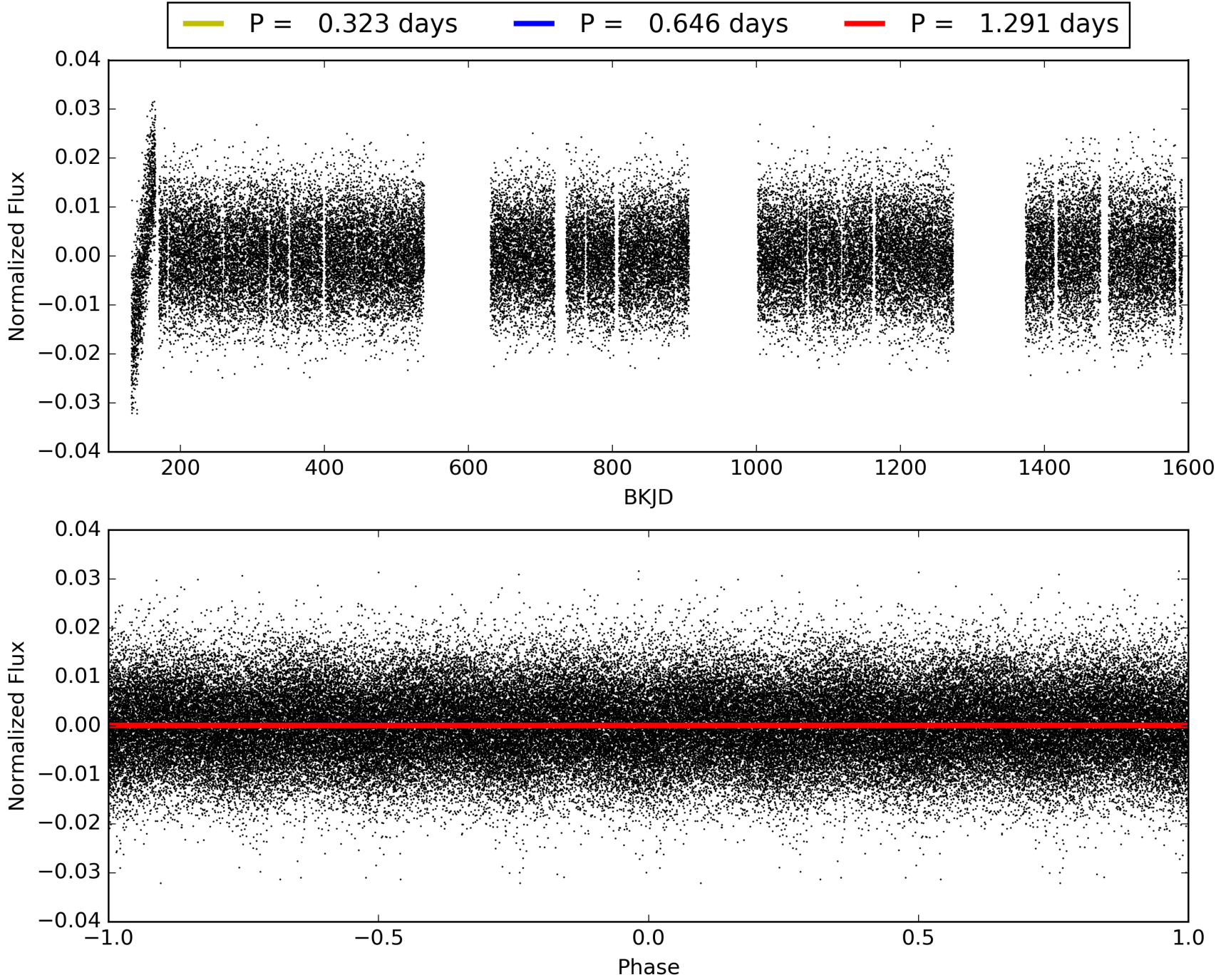
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:38:17 Z

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

TCE 003763579-02, PDC Light Curves

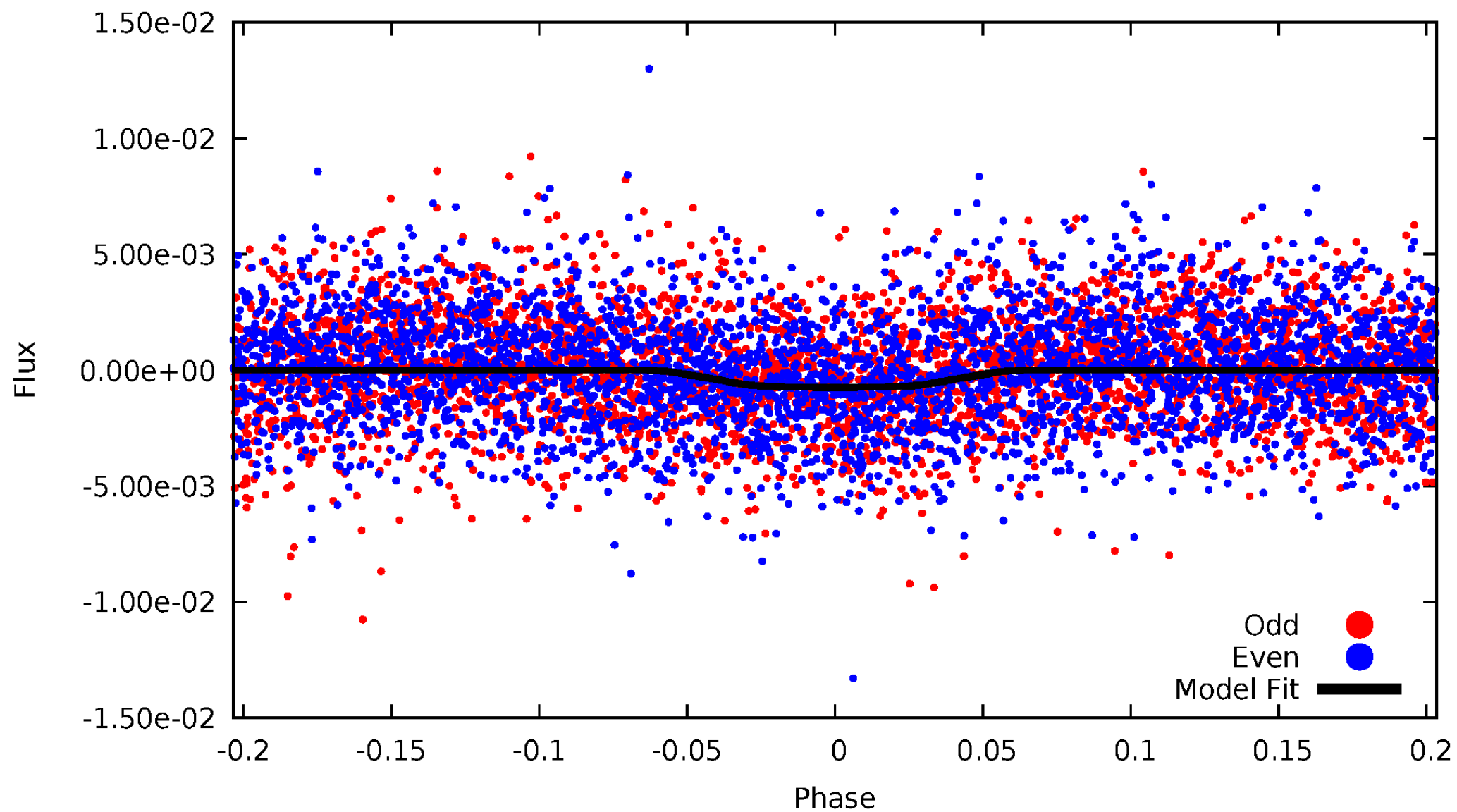


TCE 003763579-02



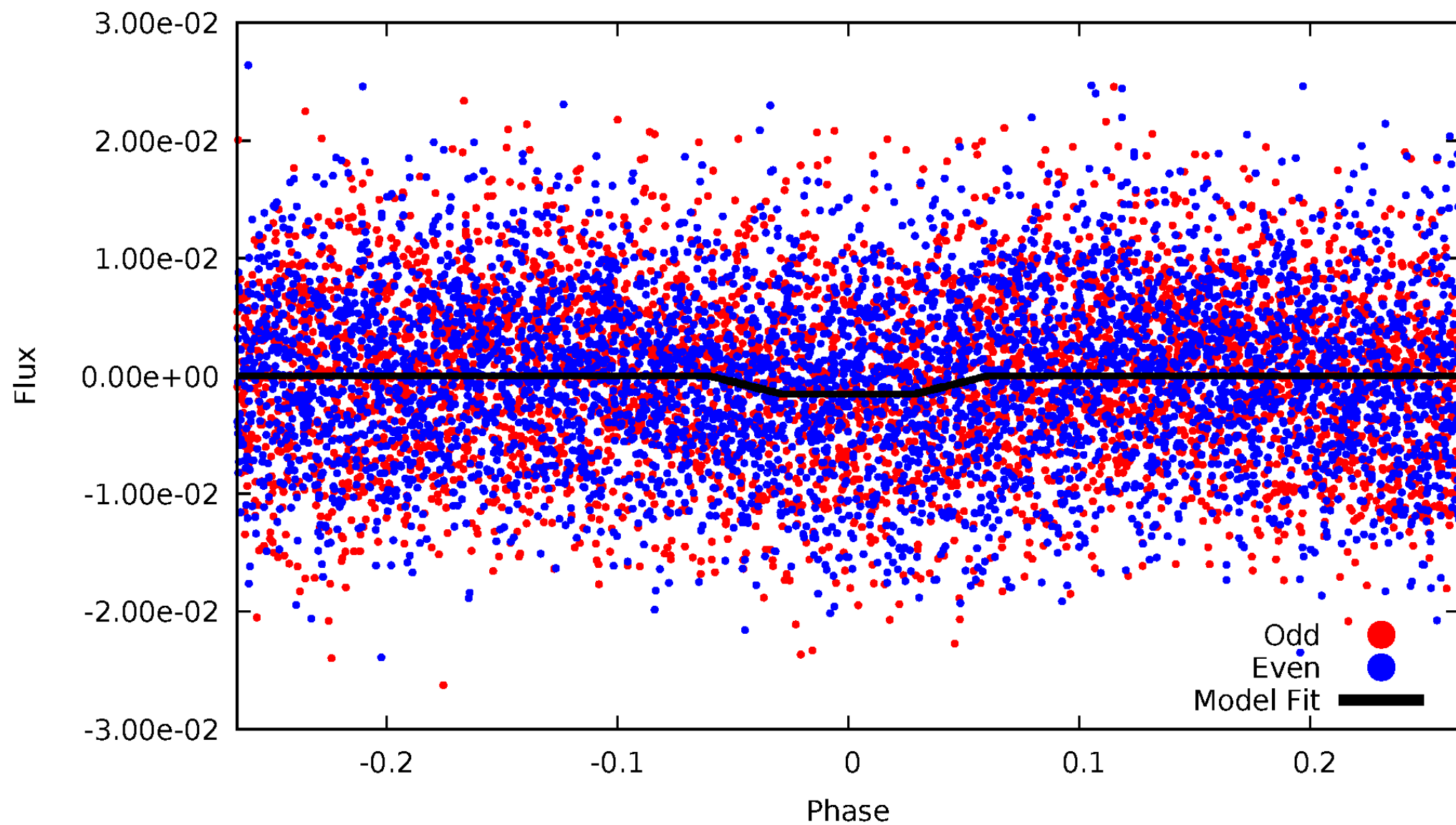
DV Odd/Even

TCE 003763579-02



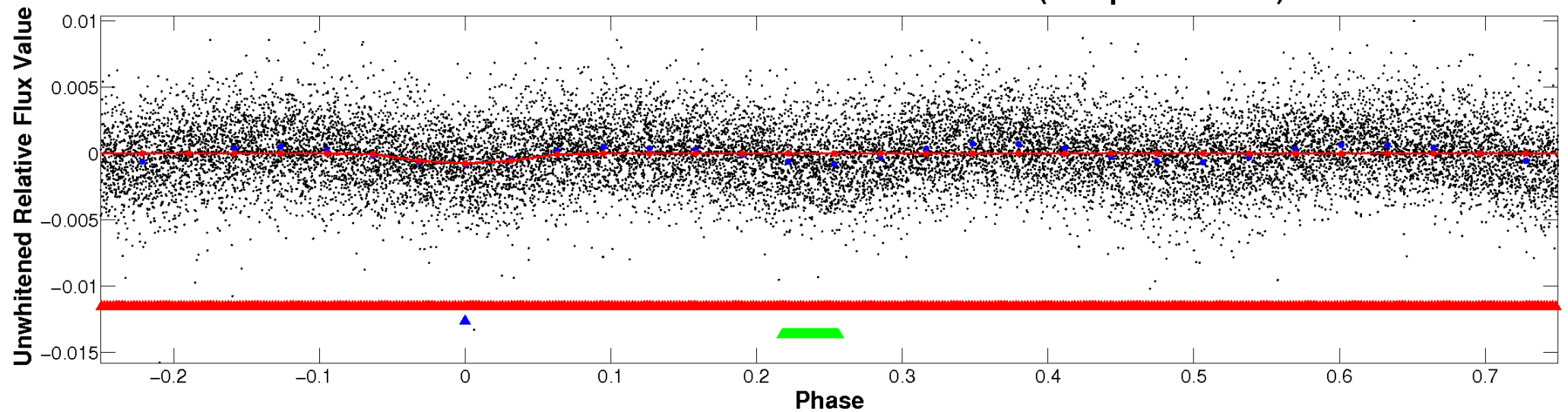
ALT Odd/Even

TCE 003763579-02

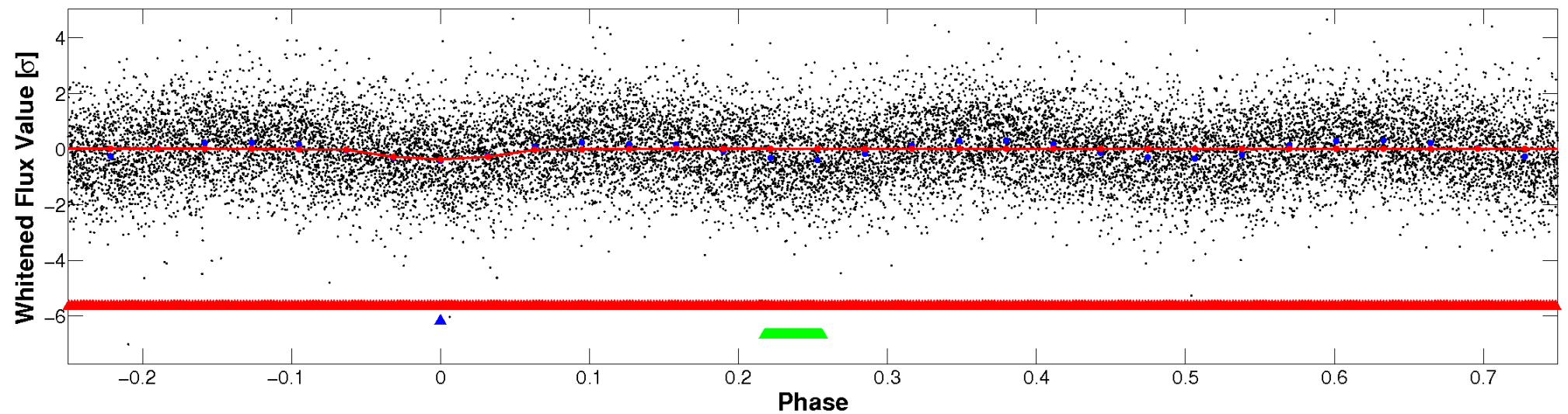


Non-Whitened Vs. Whitened Light Curve

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

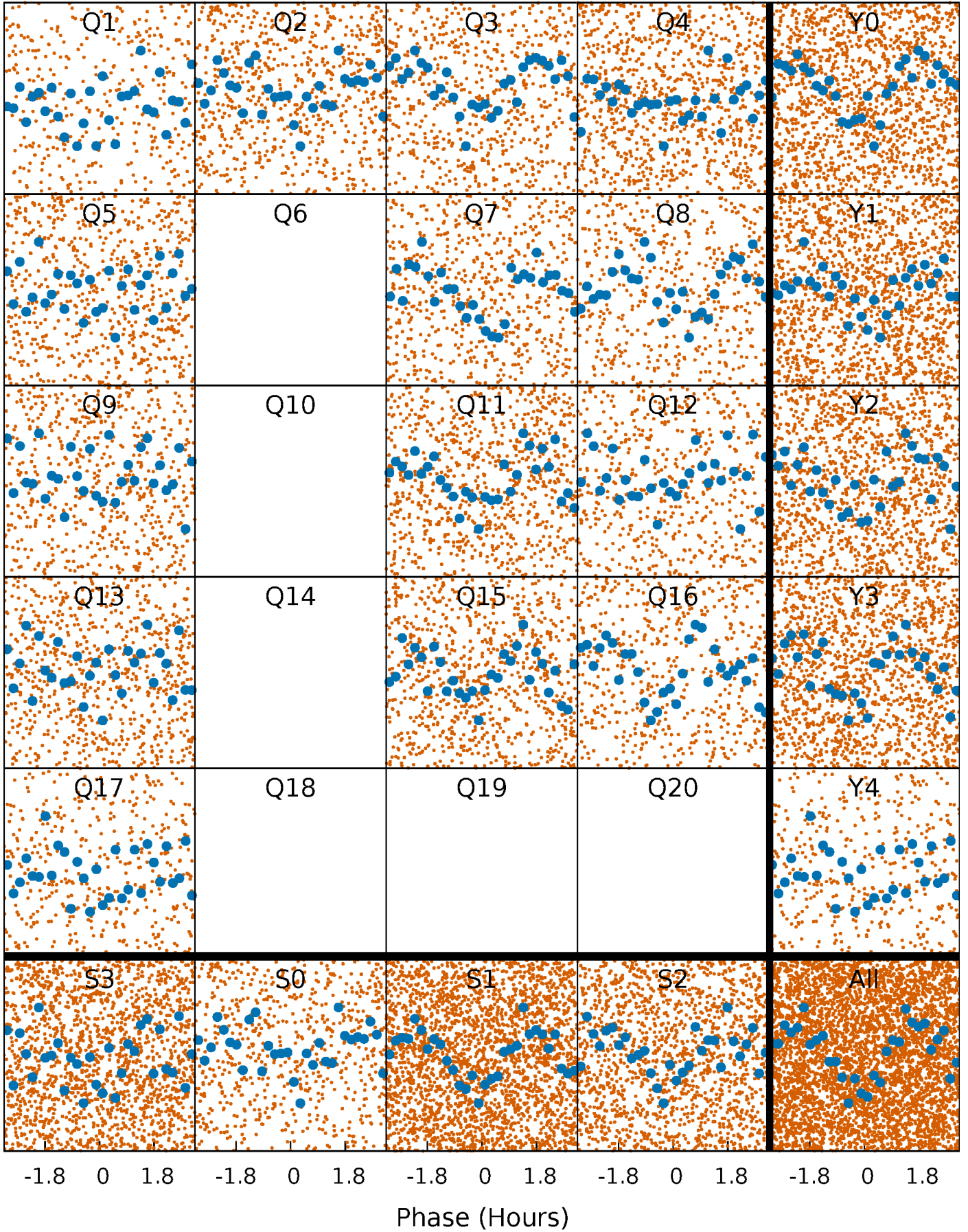


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



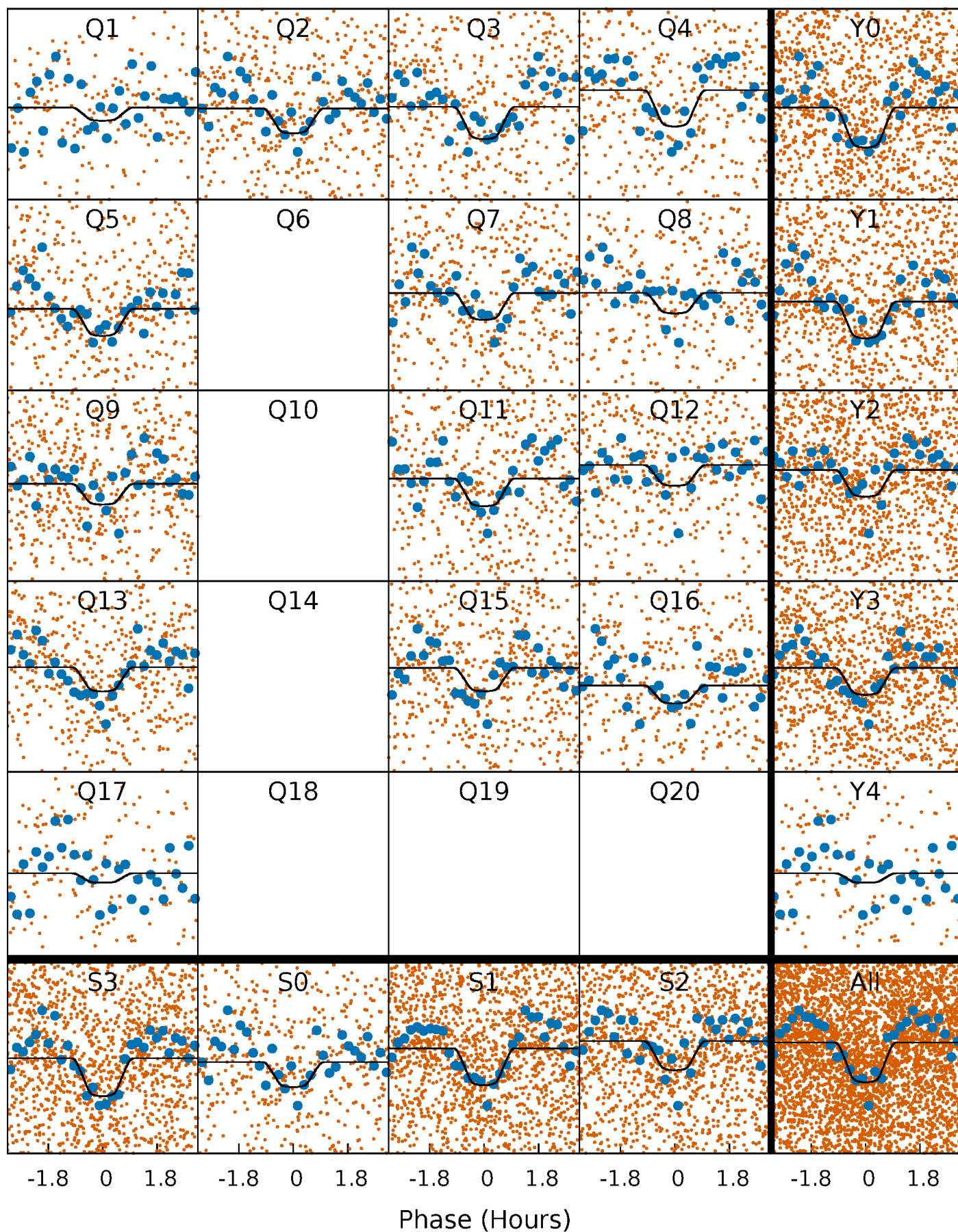
PDC Quarter-Phased Transit Curves

TCE 003763579-02 P= 0.645657 Days $T_0=131.683138$ (BKJD)



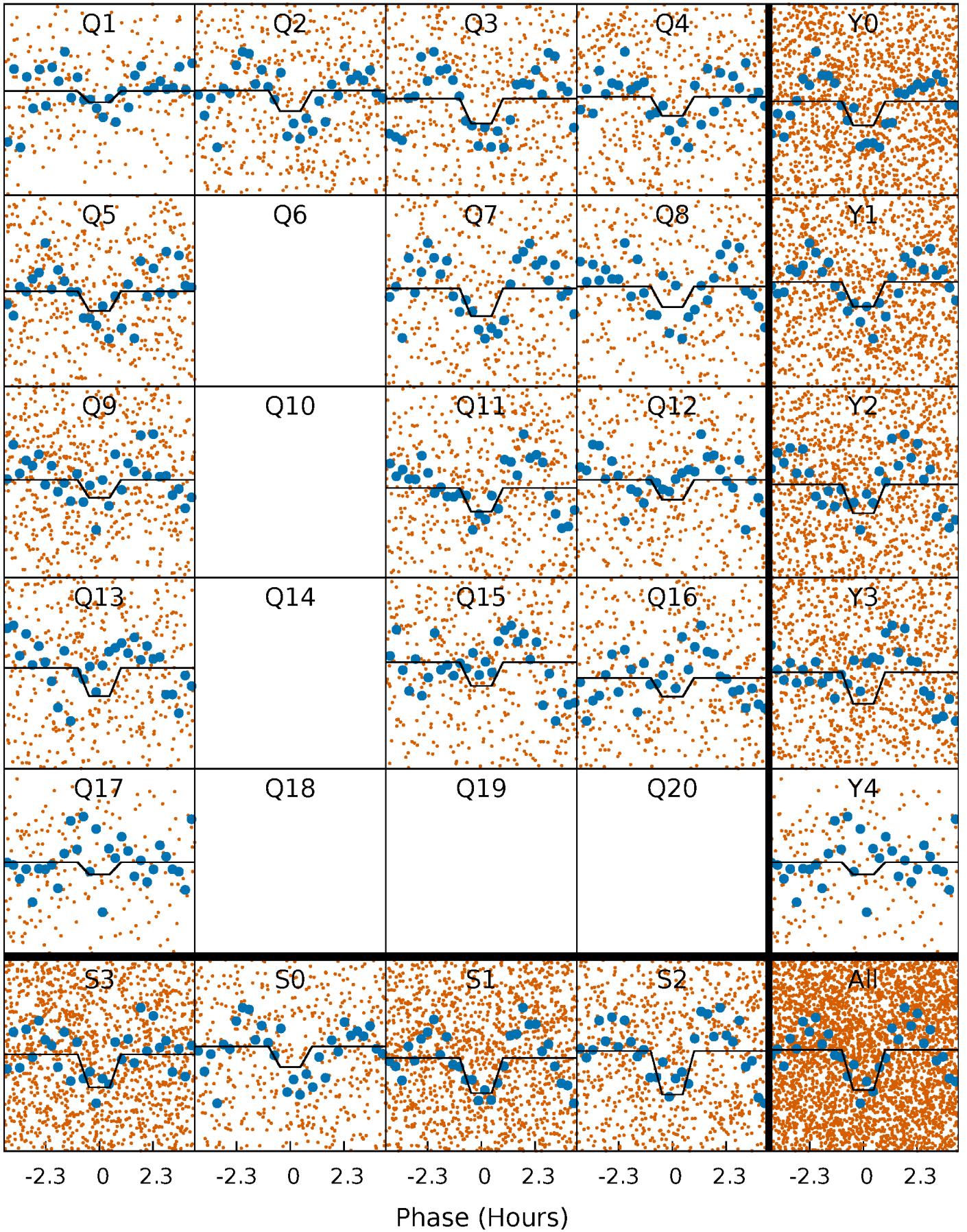
DV Quarter-Phased Transit Curves

TCE 003763579-02 P= 0.645657 Days $T_0=131.683138$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

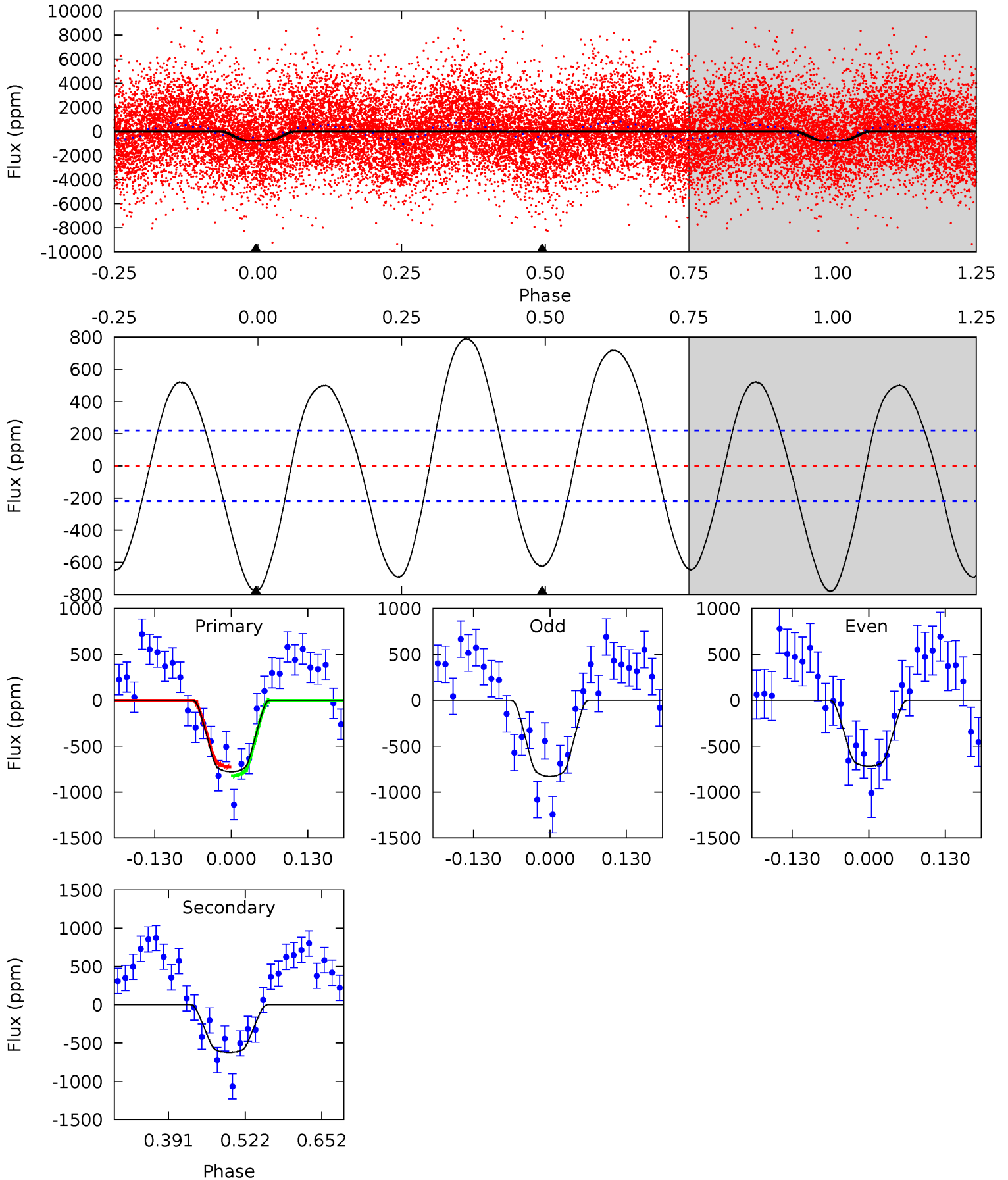
TCE 003763579-02 P= 0.645651 Days $T_0=131.674197$ (BKJD)



DV Model-Shift Uniqueness Test

003763579-02, P = 0.645657 Days, E = 131.037481 Days

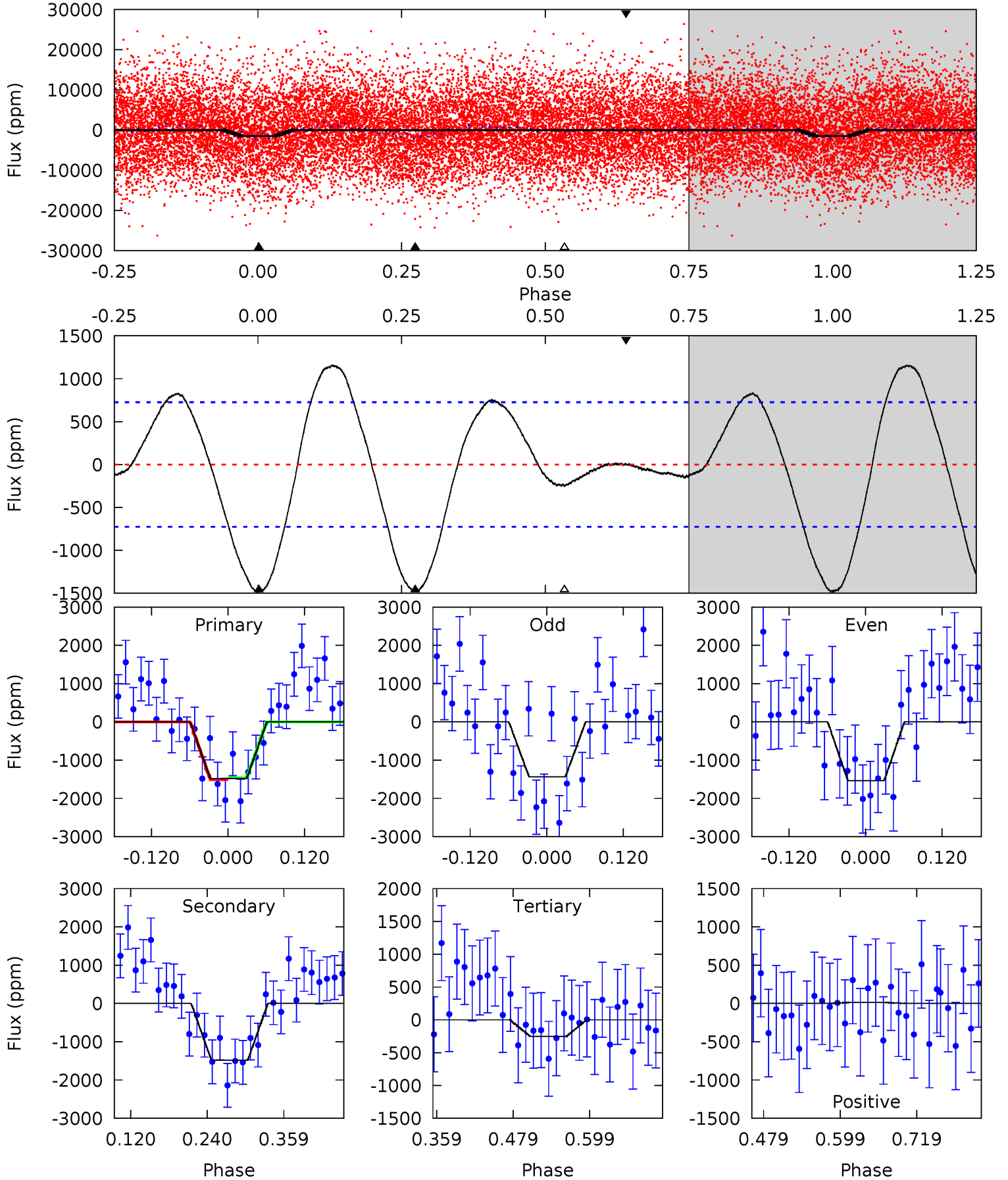
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.0	12.8	0	0	4.51	1.51	9.55	16.0	16.0	12.8	12.8	1.15	1.04	0.50	0.99



Alt Model-Shift Uniqueness Test

003763579-02, P = 0.645651 Days, E = 131.028546 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.25	9.26	1.57	0.07	4.53	1.56	2.54	7.68	9.18	7.69	9.19	0.31	1.11	0.44	0.13



Stellar Parameters For KIC 003763579

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8554^{+235}_{-404}	$4.050^{+0.155}_{-0.140}$	$0.070^{+0.250}_{-0.550}$	$2.237^{+0.551}_{-0.606}$	$2.049^{+0.331}_{-0.497}$	$0.258^{+0.240}_{-0.106}$
	+3%/-5%	+4%/-3%	+357%/-786%	+25%/-27%	+16%/-24%	+93%/-41%
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 003763579-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-623 ± 49	$7.12^{+2.45}_{-2.18}$	5758^{+394}_{-404}	7355^{+2029}_{-1180}	$2.304^{+2.530}_{-1.009}$
Alt.	-1485 ± 160	$9.53^{+2.68}_{-2.53}$	5754^{+391}_{-418}	8075^{+1727}_{-1053}	$3.109^{+2.443}_{-1.195}$

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 $A_{obs} \gg 1.0$

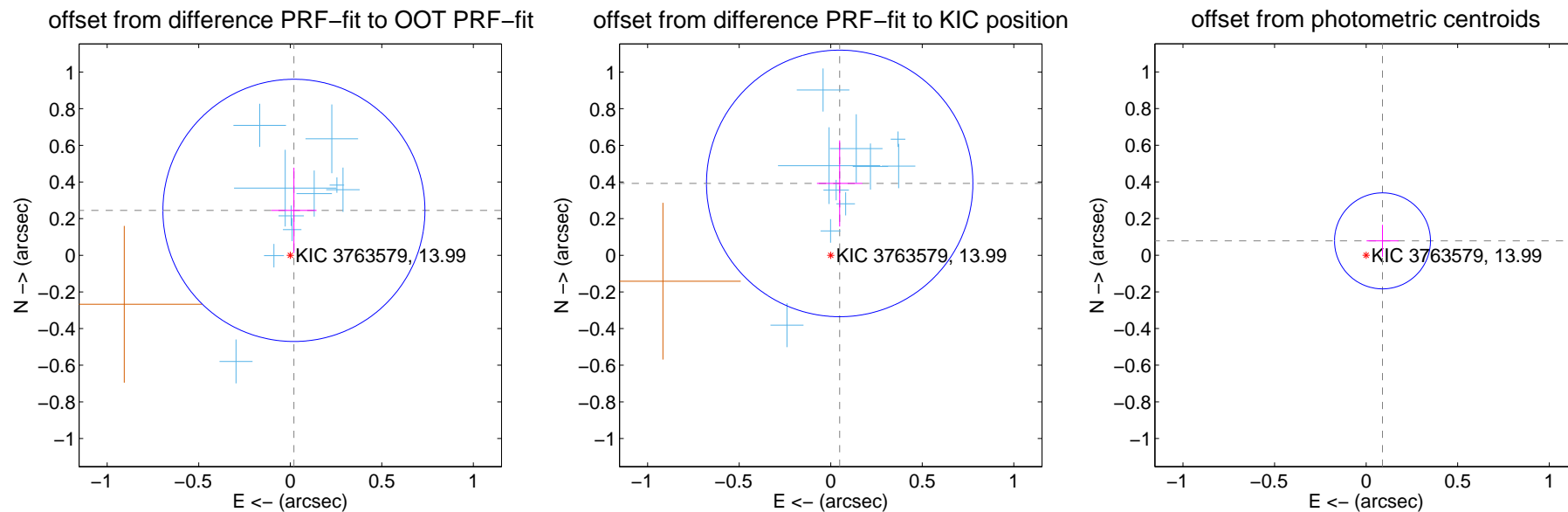
DV Centroid Data

Supplemental centroid analysis for 003763579-02. Kepler magnitude: 13.99. Transit SNR 12.67

There are 11 quarters with good PRF difference image offsets

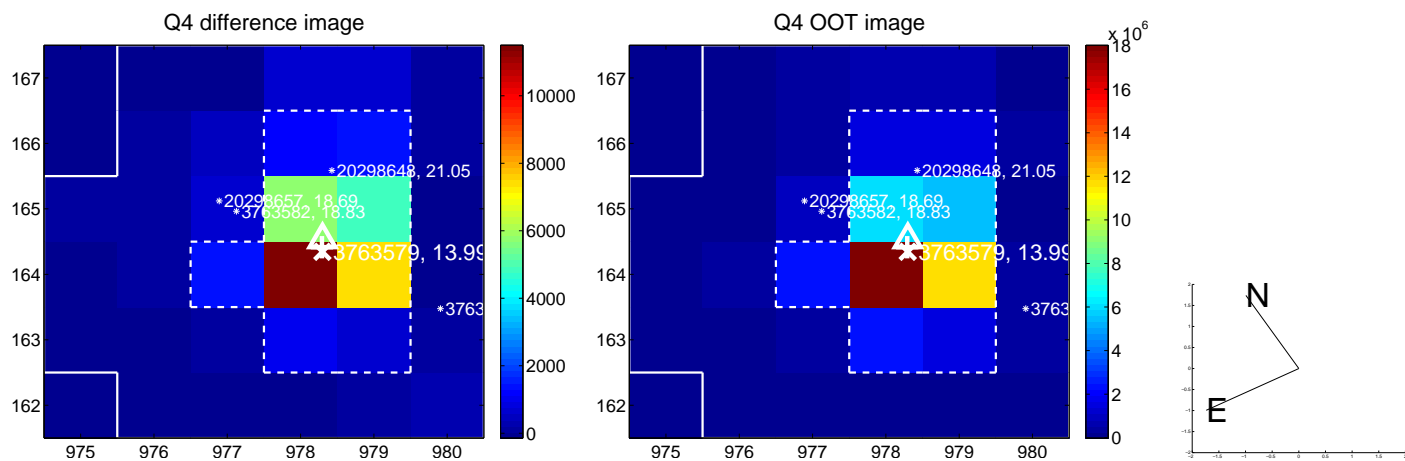
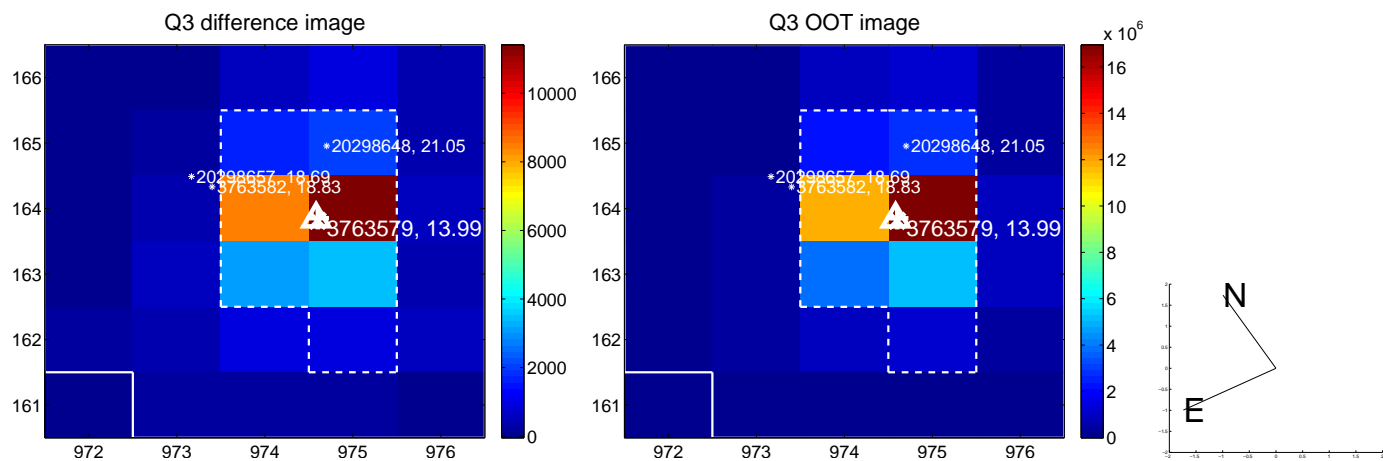
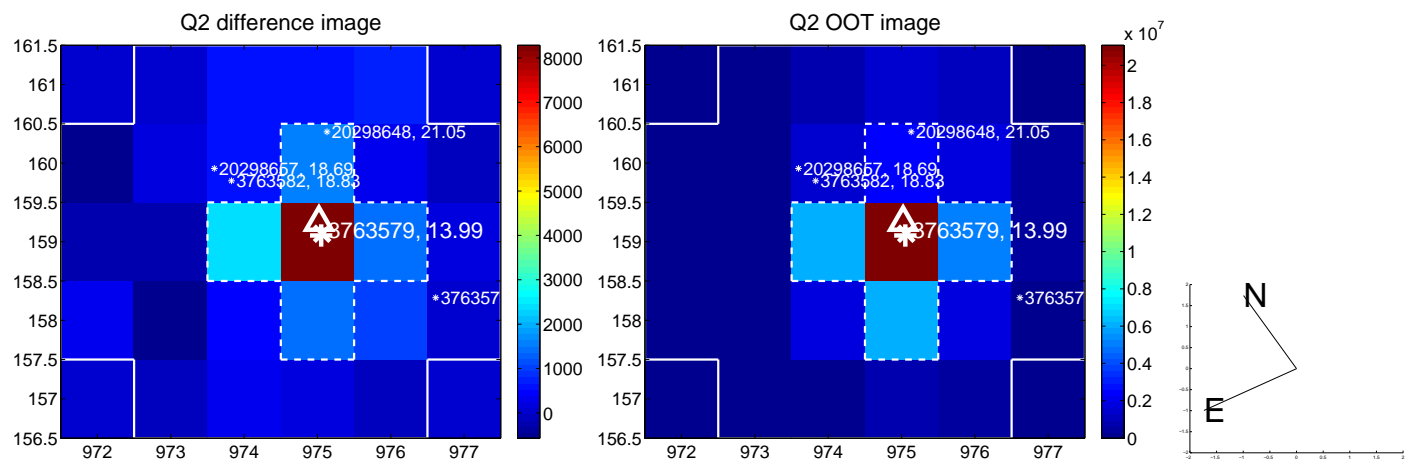
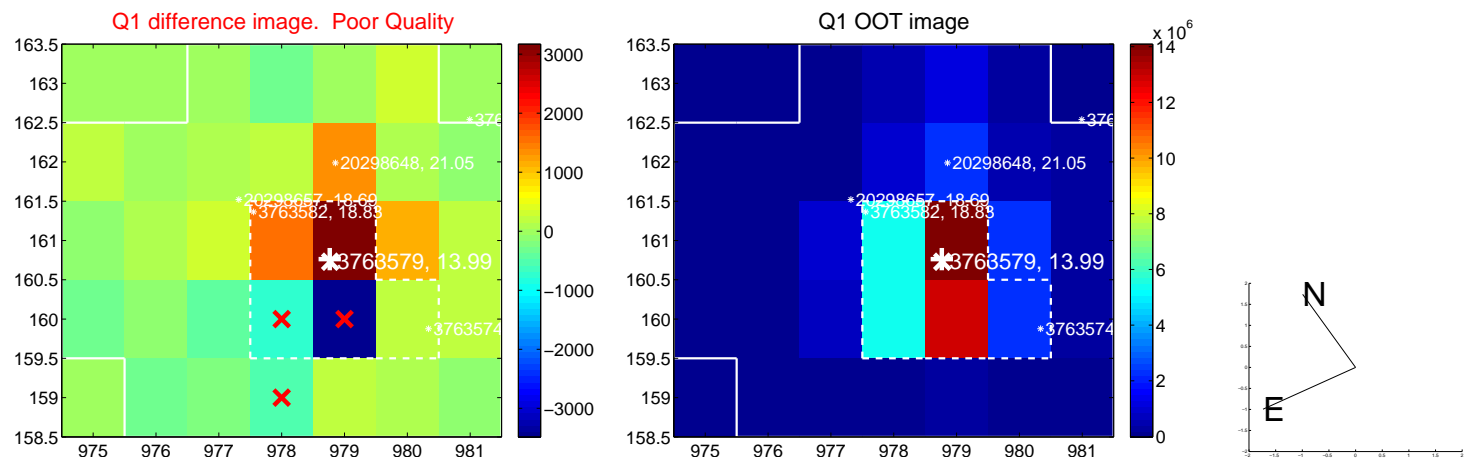
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.246 ± 0.239	1.03	-0.020 ± 0.123	0.245 ± 0.233
PRF-fit source offset from KIC position	0.395 ± 0.243	1.63	-0.049 ± 0.124	0.392 ± 0.235
photometric centroid source offset	0.12 ± 0.09	1.36	-0.09 ± 0.09	0.08 ± 0.09

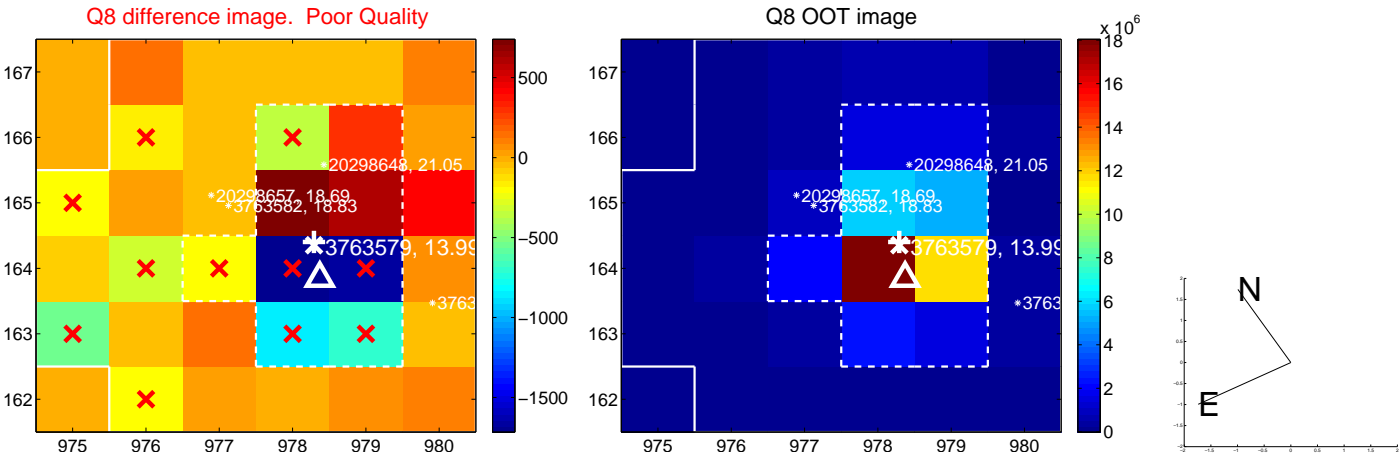
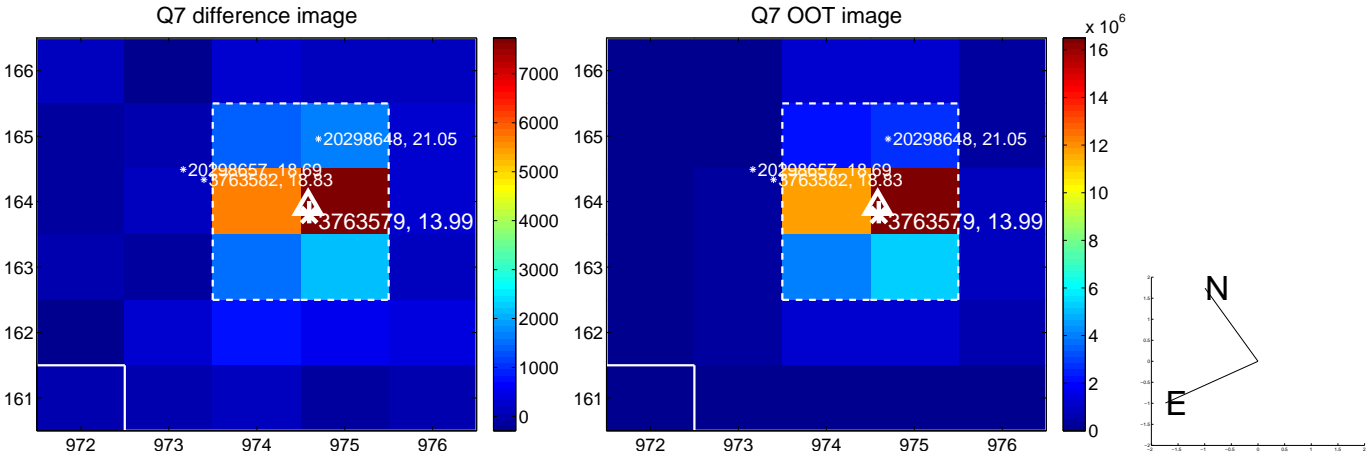
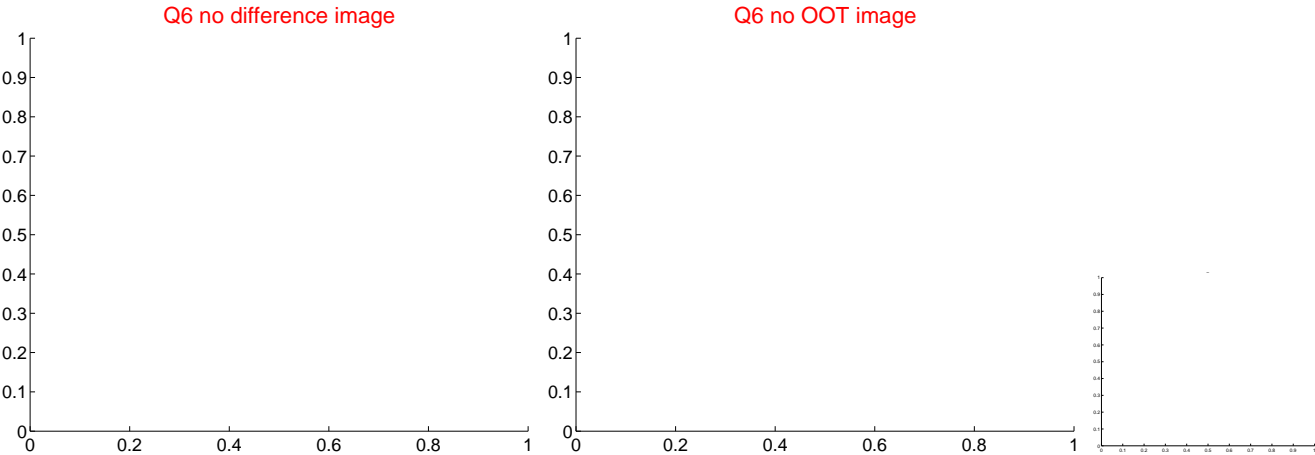
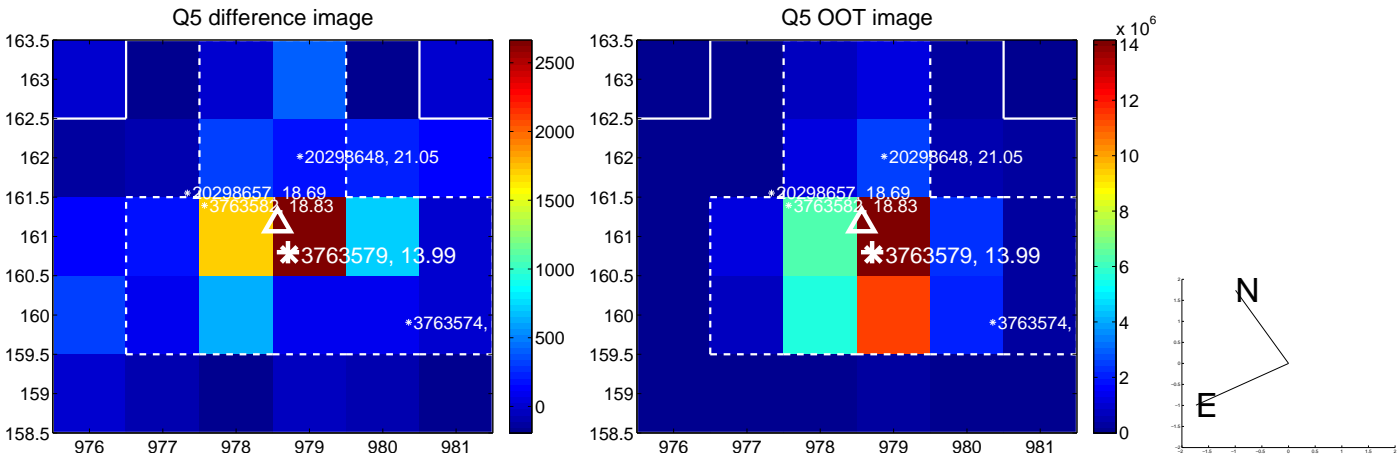


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

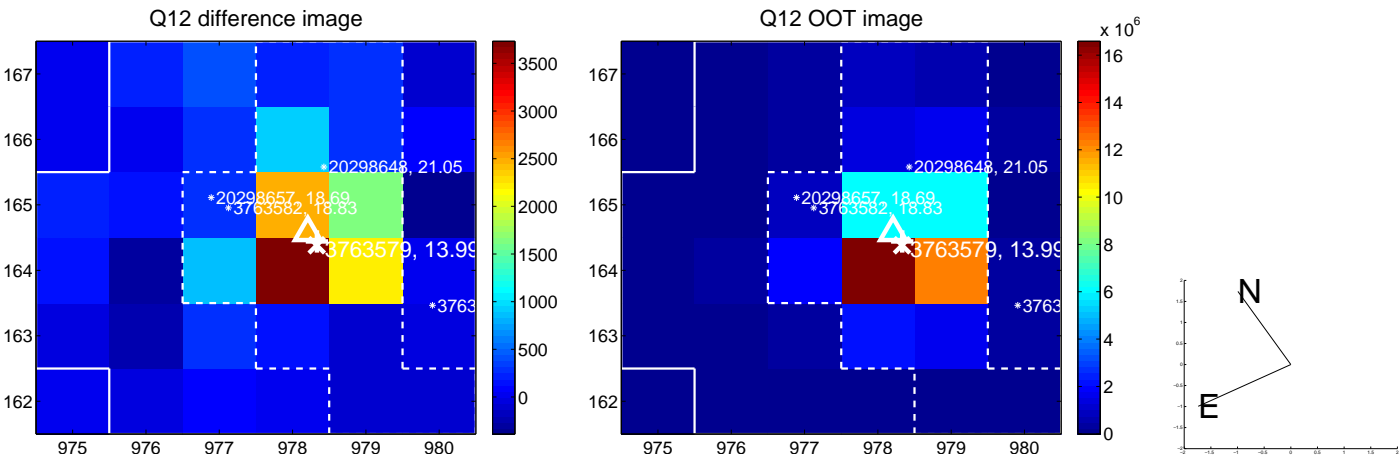
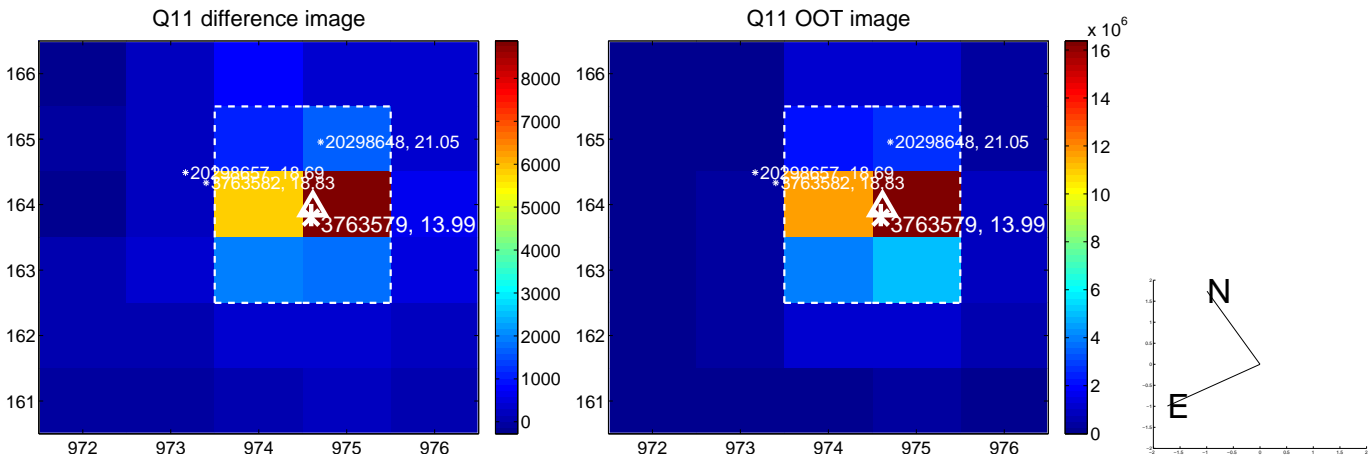
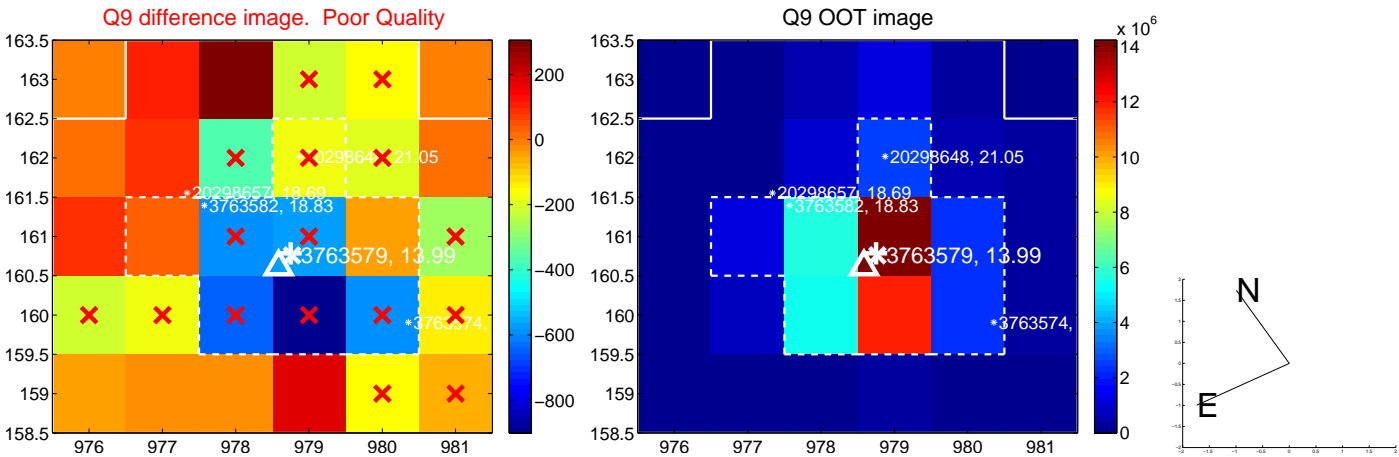
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



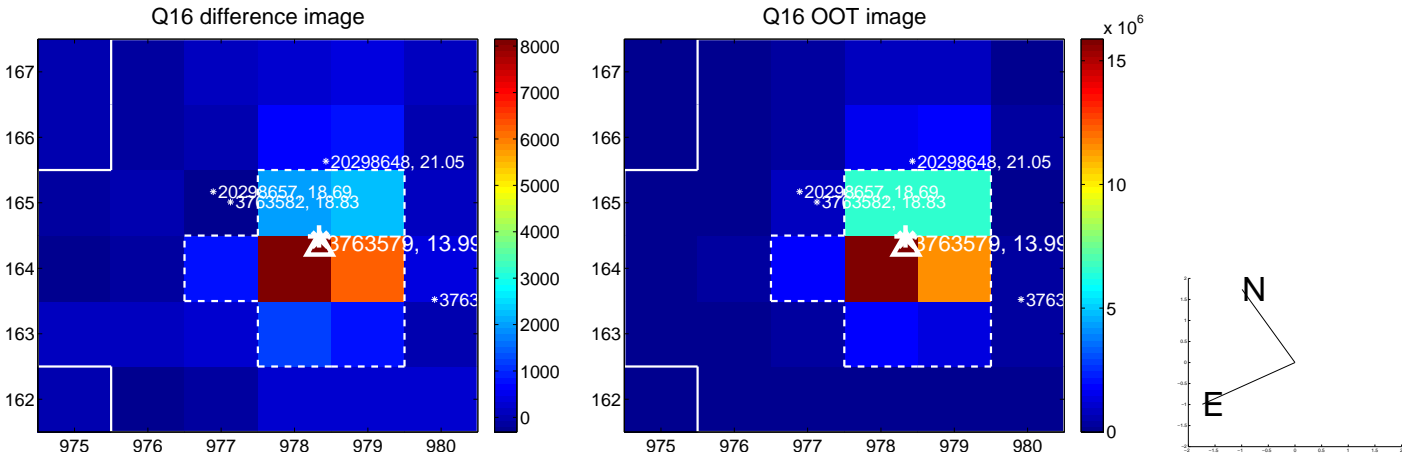
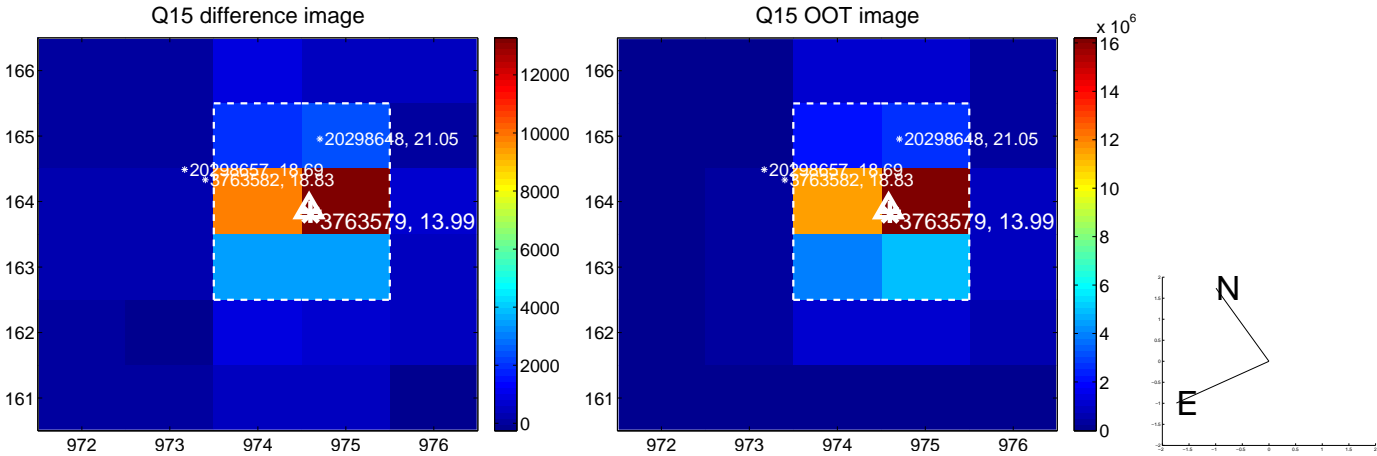
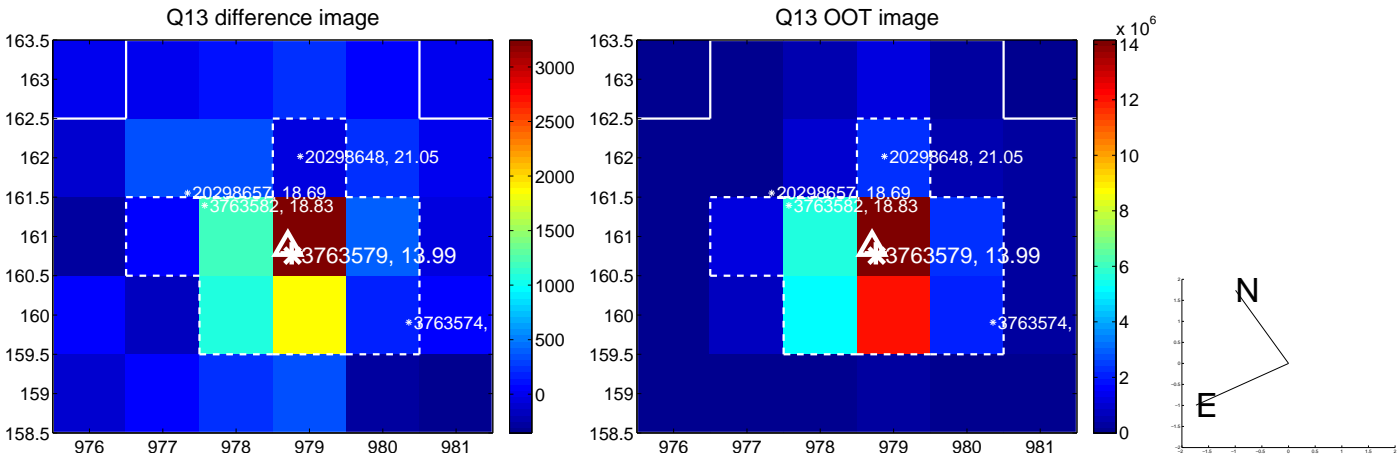
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



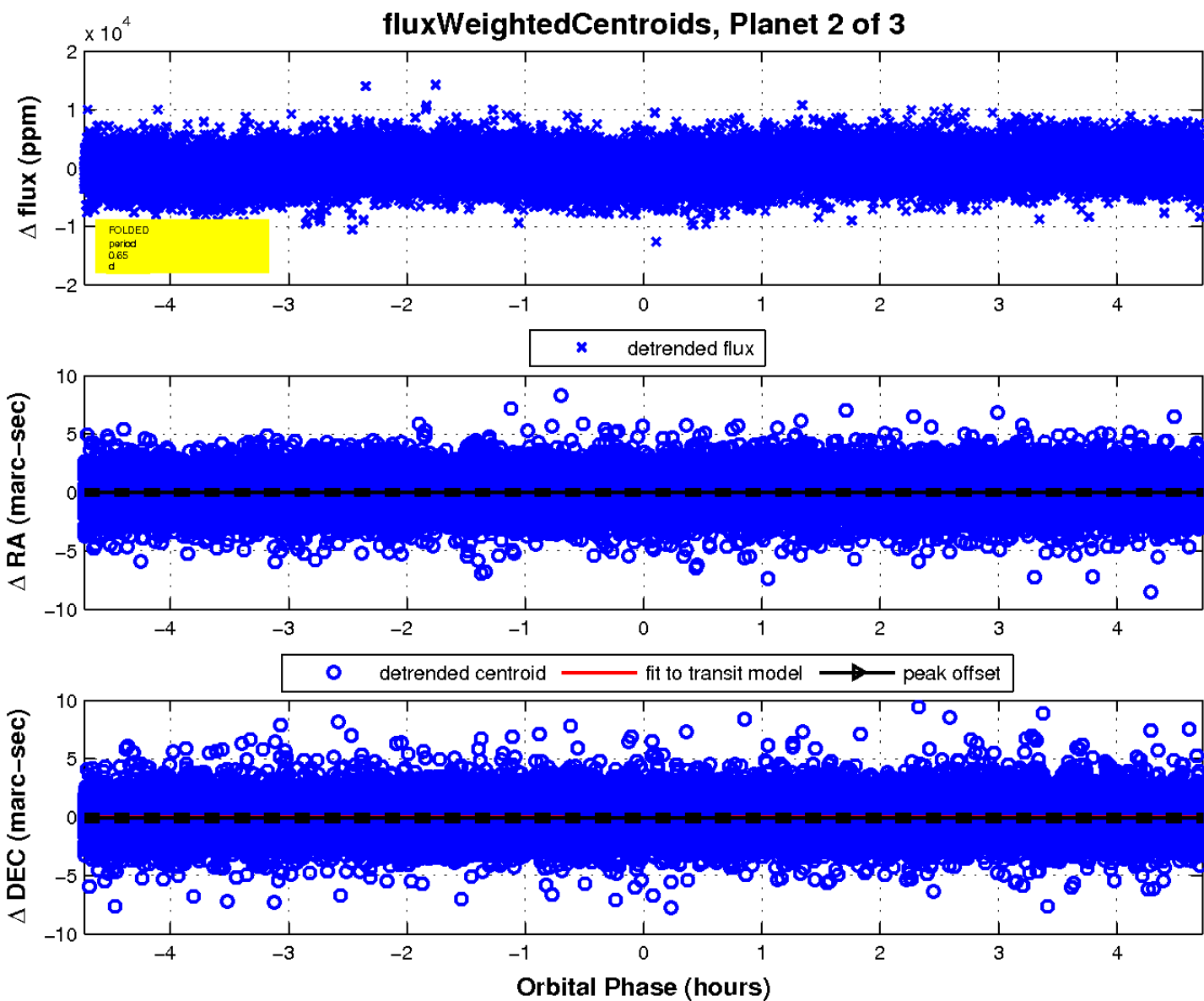
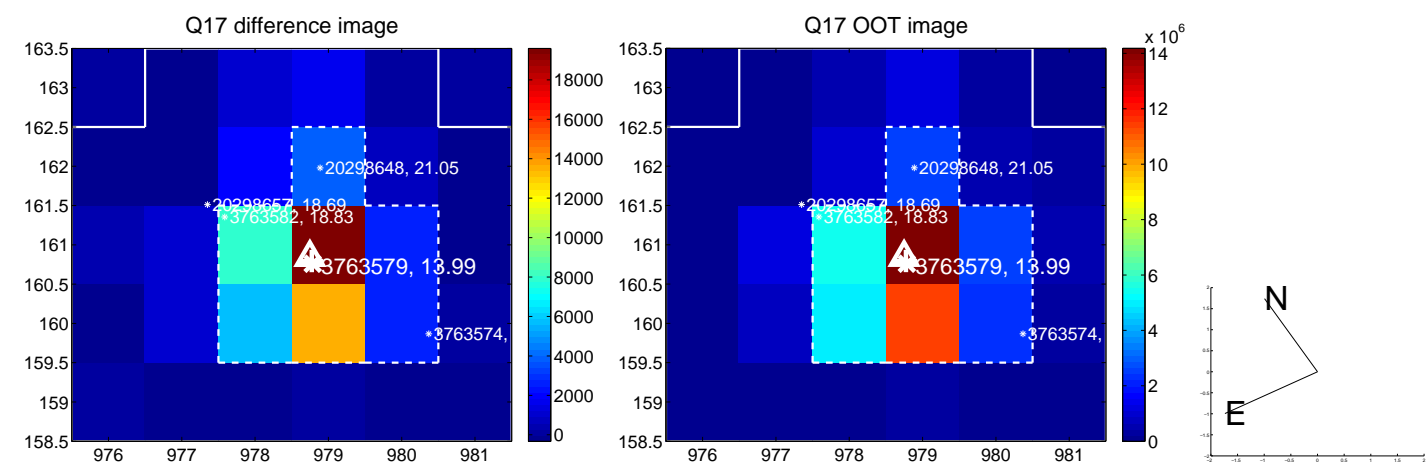
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

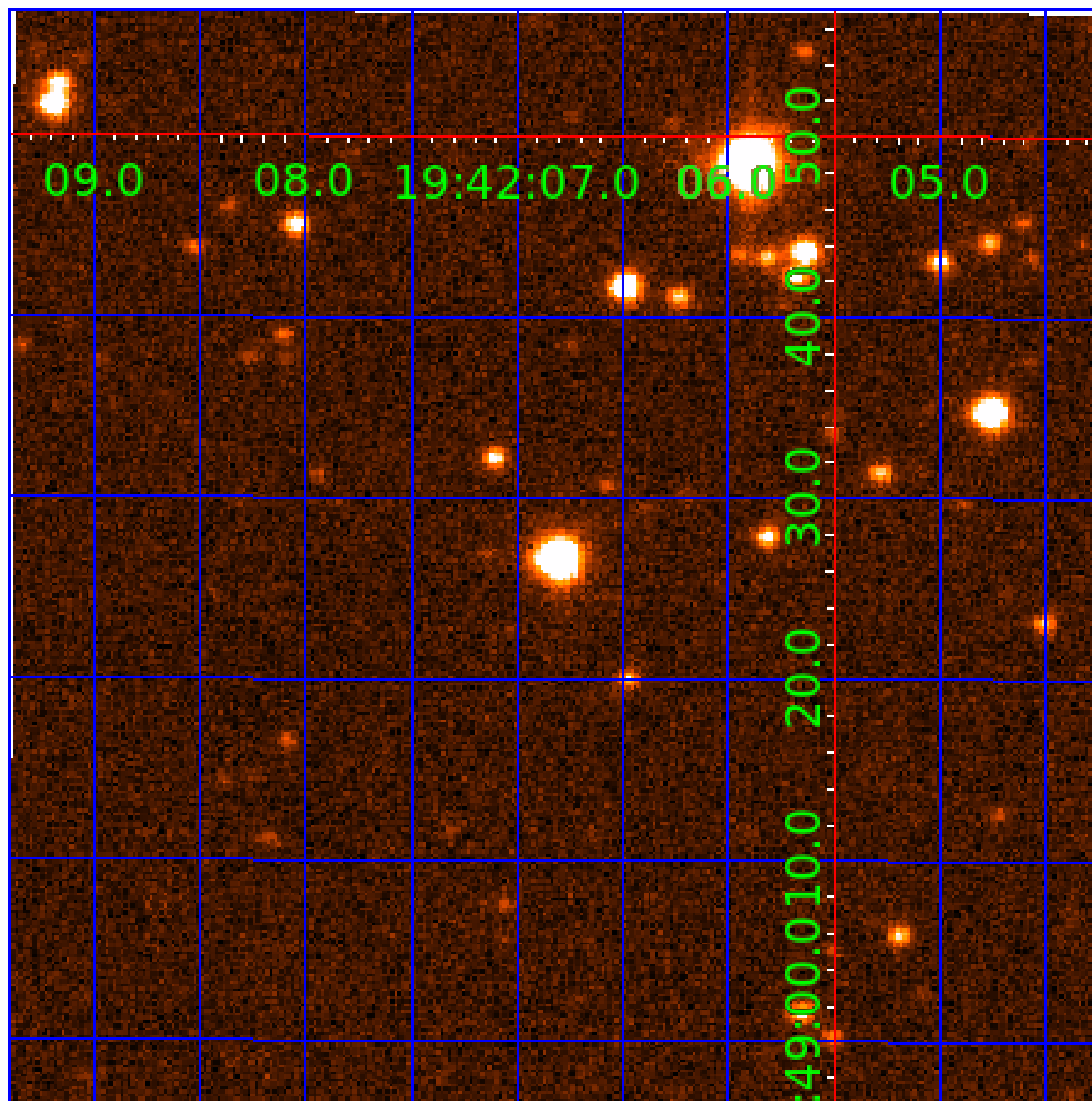


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003763579

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})
003763579-01	OBS	No	1.271709	132.354348	228.0	6.628	9.3	9.0	2.24	8554	3.45	28194.53
003763579-02	OBS	No	0.645657	131.683138	749.6	1.576	10.8	12.7	2.24	8554	7.12	69611.27
003763579-03	OBS	No	0.645646	131.848494	576.2	1.500	10.8	-1.0	2.24	8554	5.47	69612.85

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003763579-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
003763579-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
003763579-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

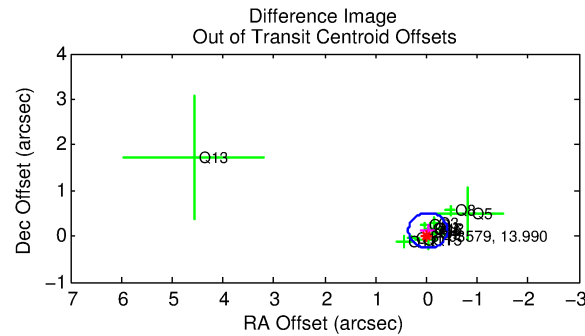
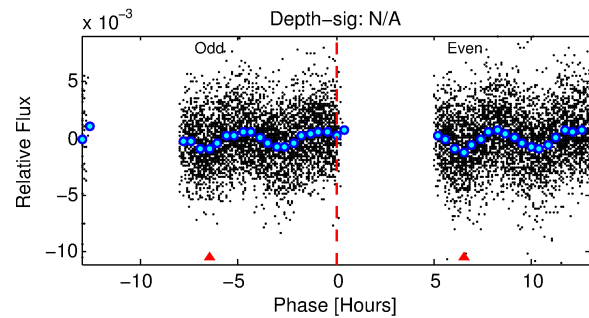
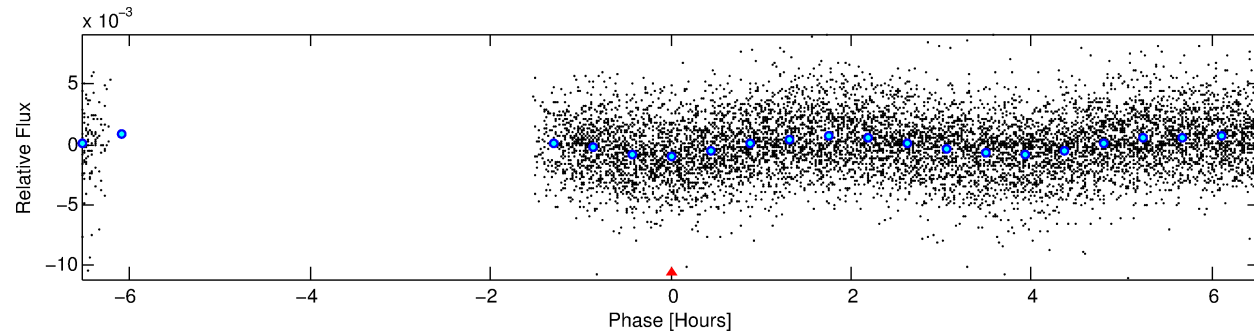
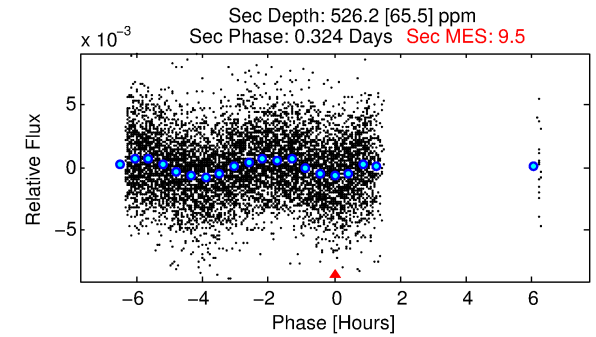
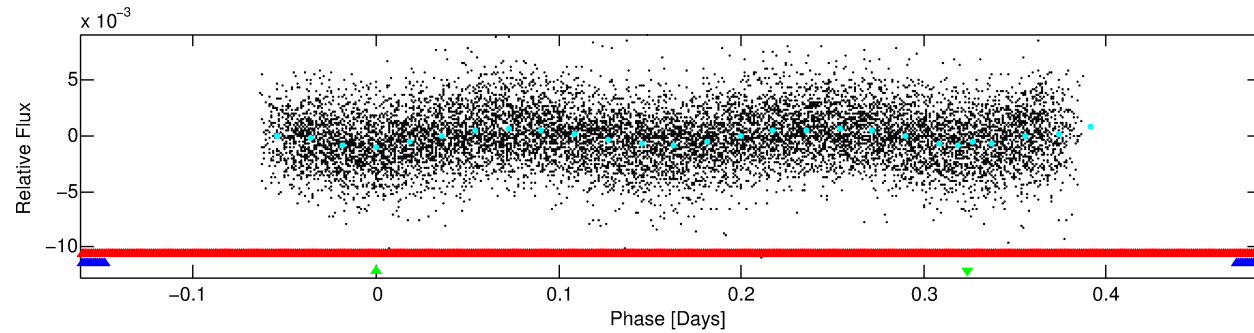
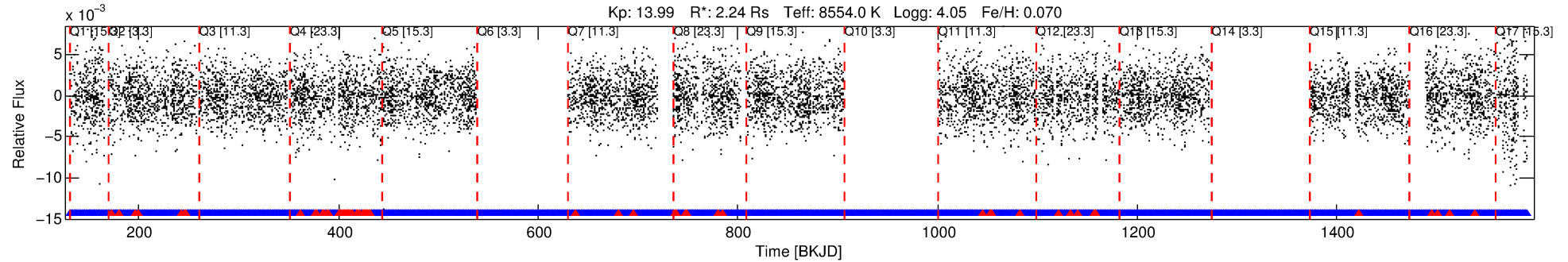
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003763579-03

No Significant Match Found

DV One-Page Summary

KIC: 3763579 Candidate: 3 of 3 Period: 0.646 d



TPS TCE Results:

Period = 0.64565 d
Epoch = 131.8485 BKJD

DV fit results are unavailable

DV Diagnostic Results:

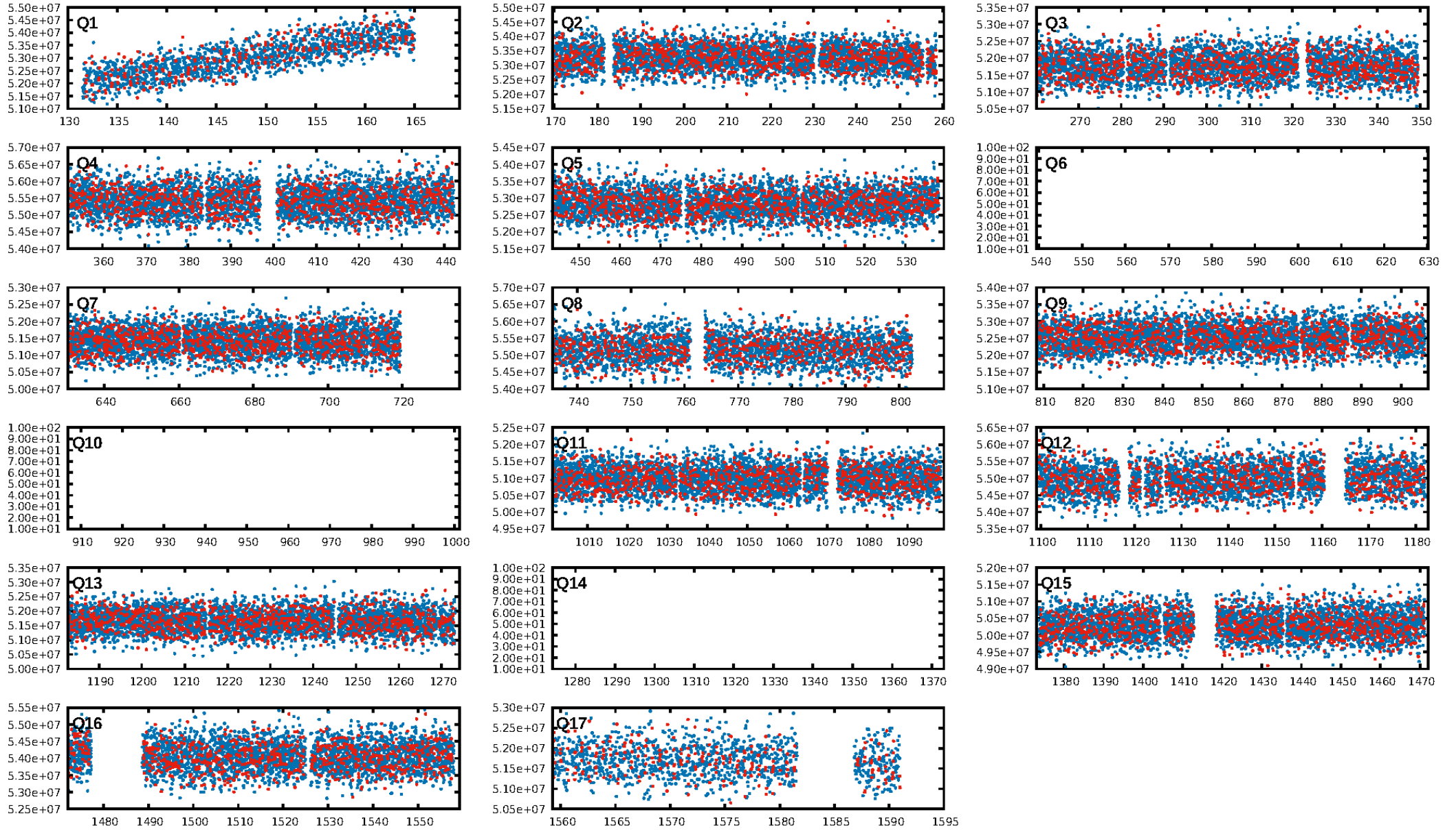
ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.91 [575/634]
GhostDiagnostic-chr: 1.348

Centroid-sig: 4.3%
Centroid-so: 0.069 arcsec [2.23 σ]
OotOffset-rm: 0.127 arcsec [1.00 σ]
KicOffset-rm: 0.274 arcsec [2.15 σ]
OotOffset-st: 1/4/4/5 [14]
KicOffset-st: 1/4/4/5 [14]
DiffImageQuality-fgm: 0.86 [12/14]
DiffImageOverlap-fno: 0.00 [0/14]

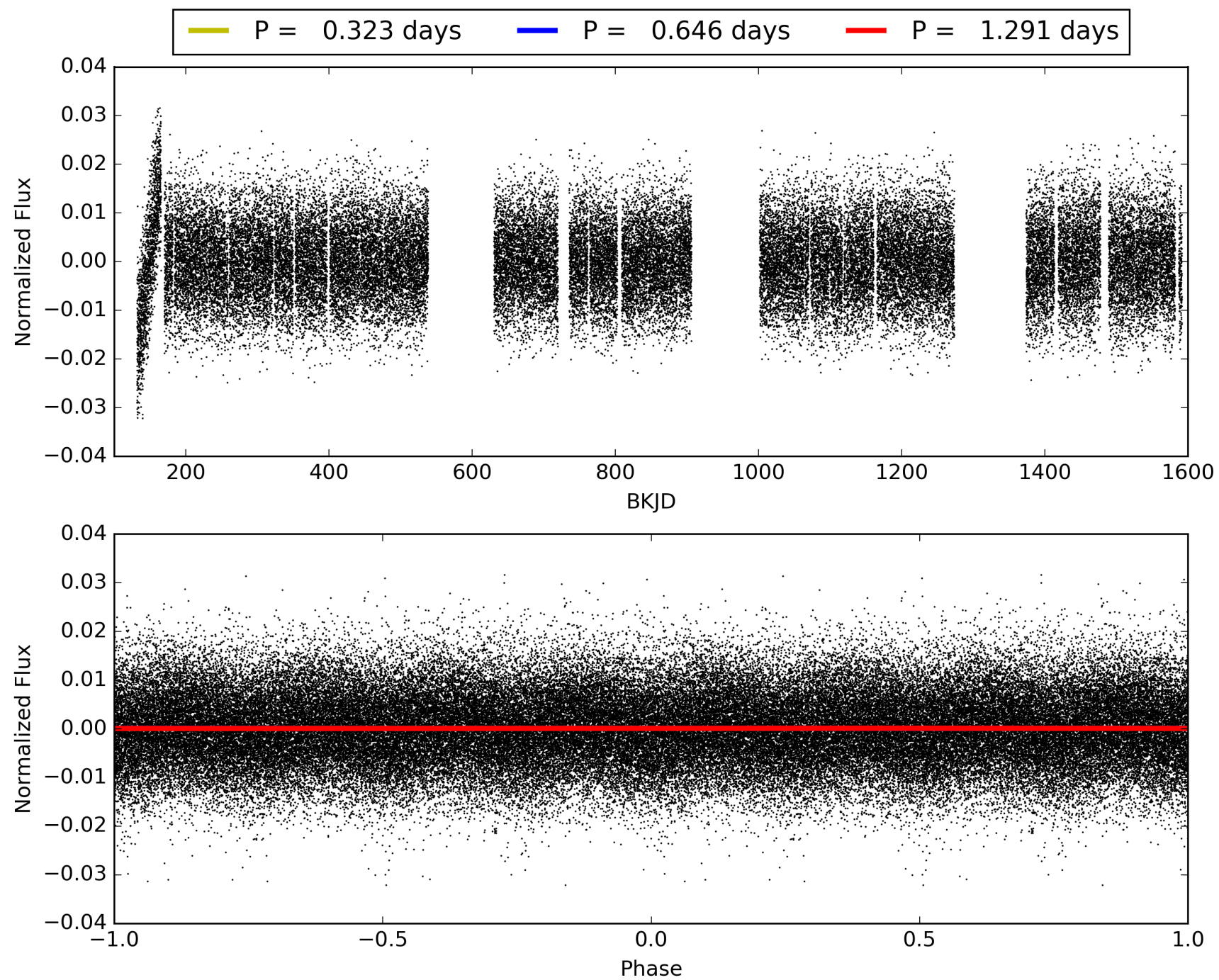
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:38:23 Z

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

TCE 003763579-03, PDC Light Curves

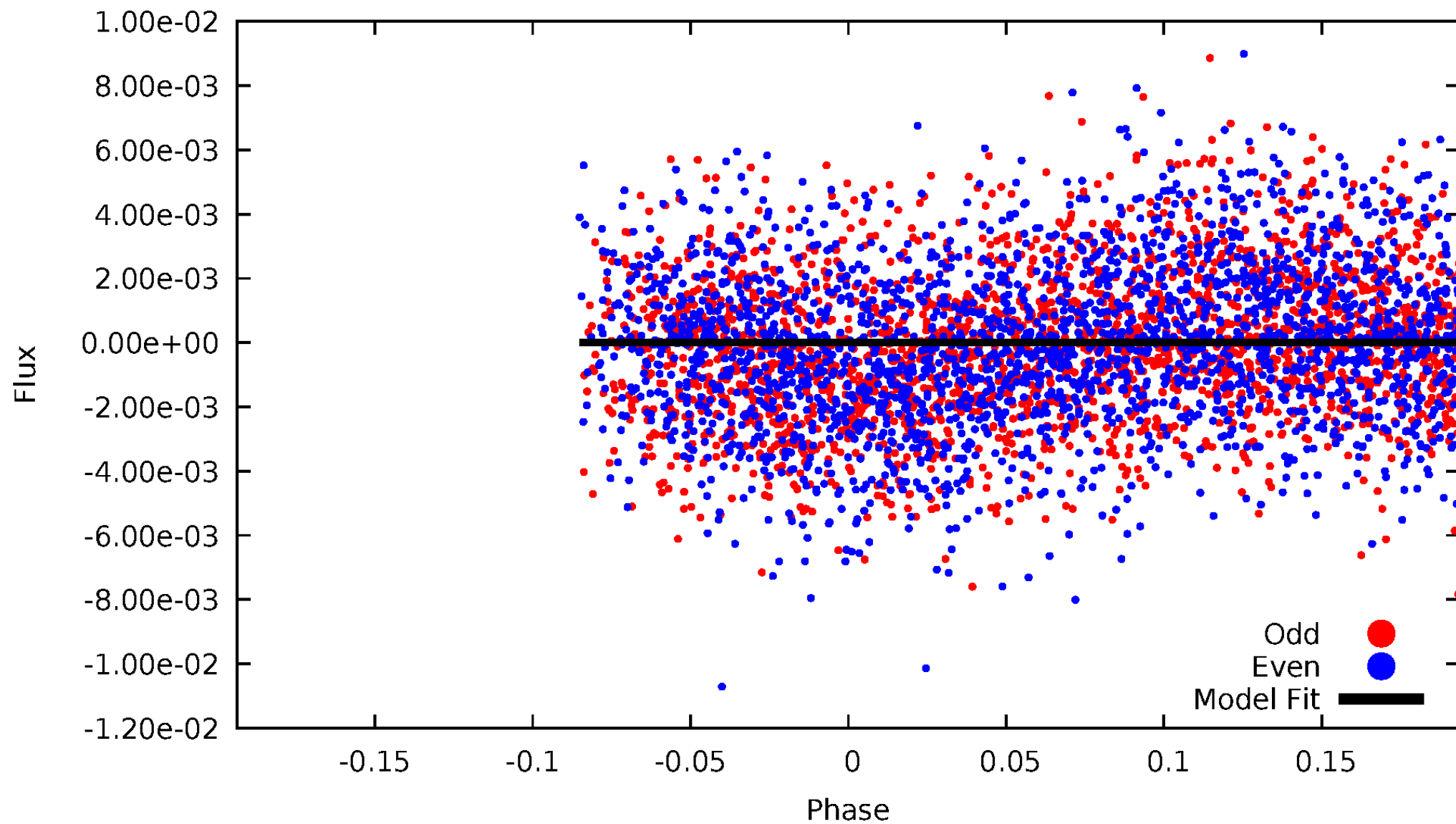


TCE 003763579-03



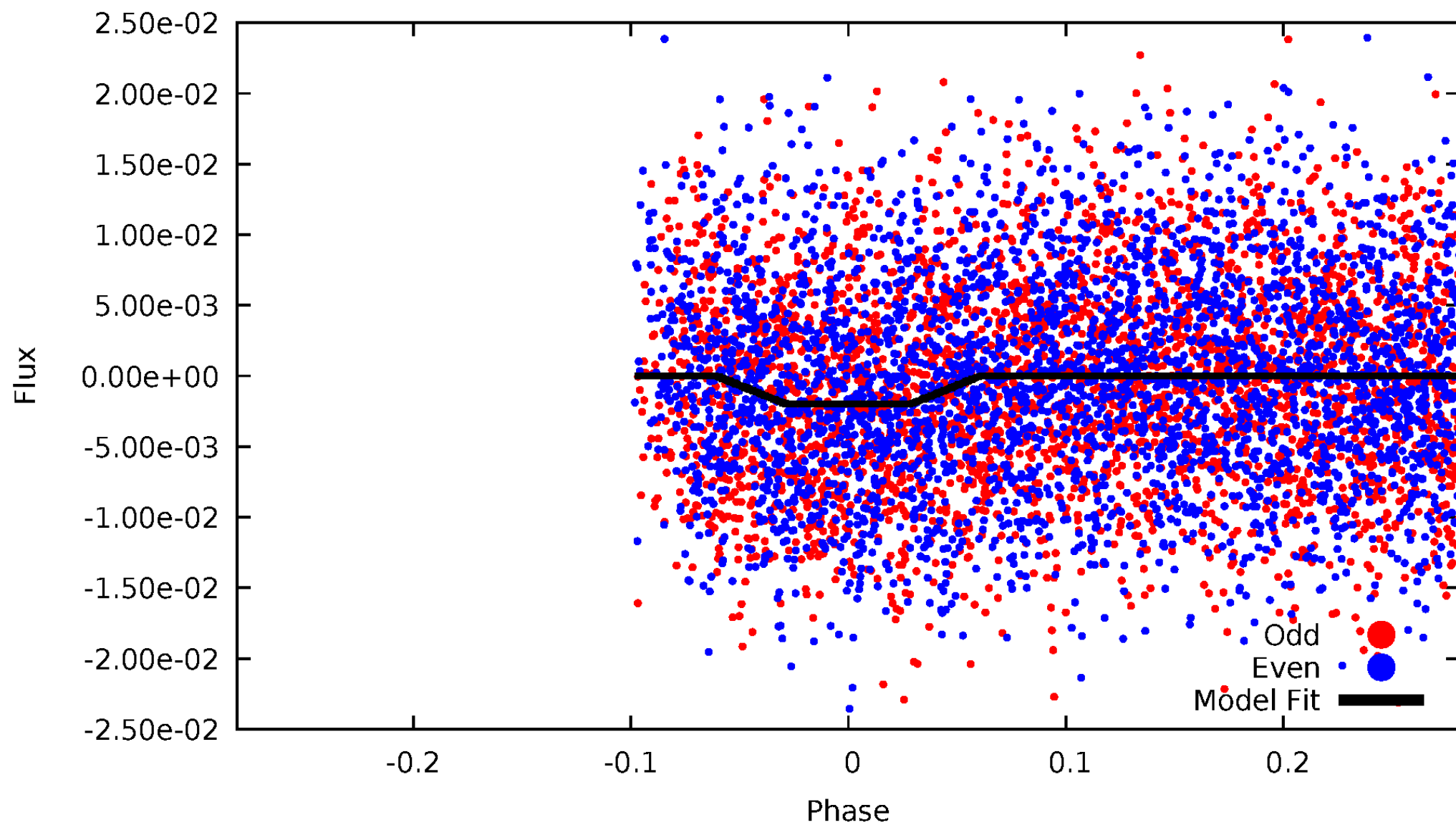
DV Odd/Even

TCE 003763579-03



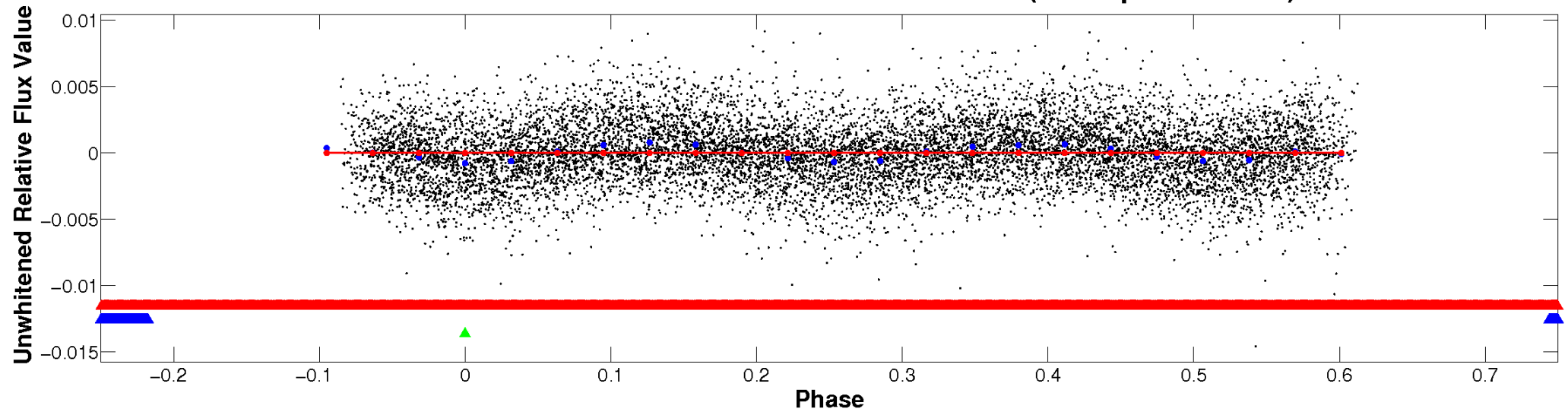
ALT Odd/Even

TCE 003763579-03

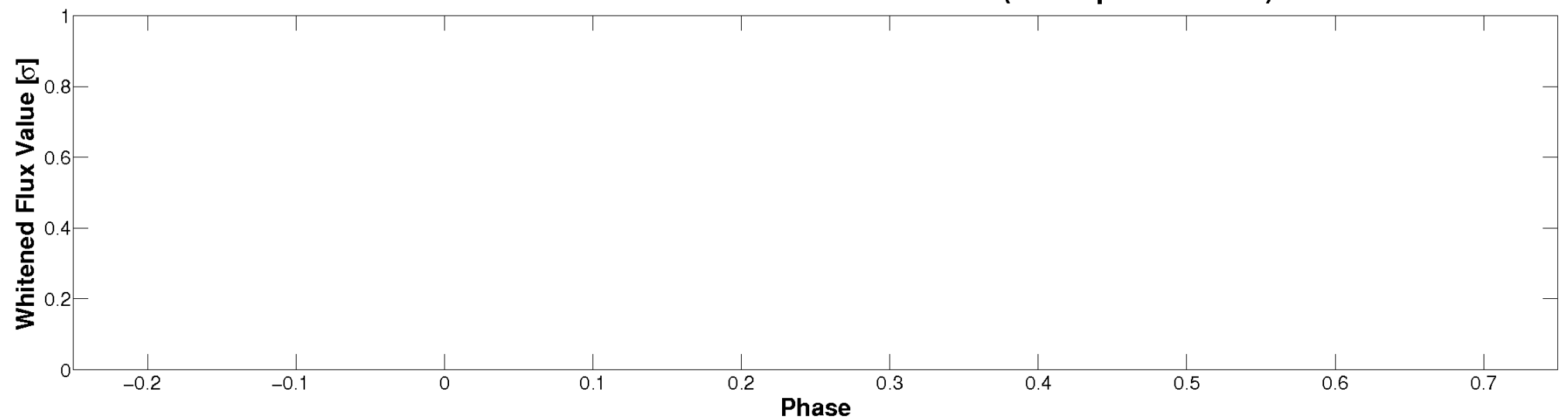


Non-Whitened Vs. Whitened Light Curve

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

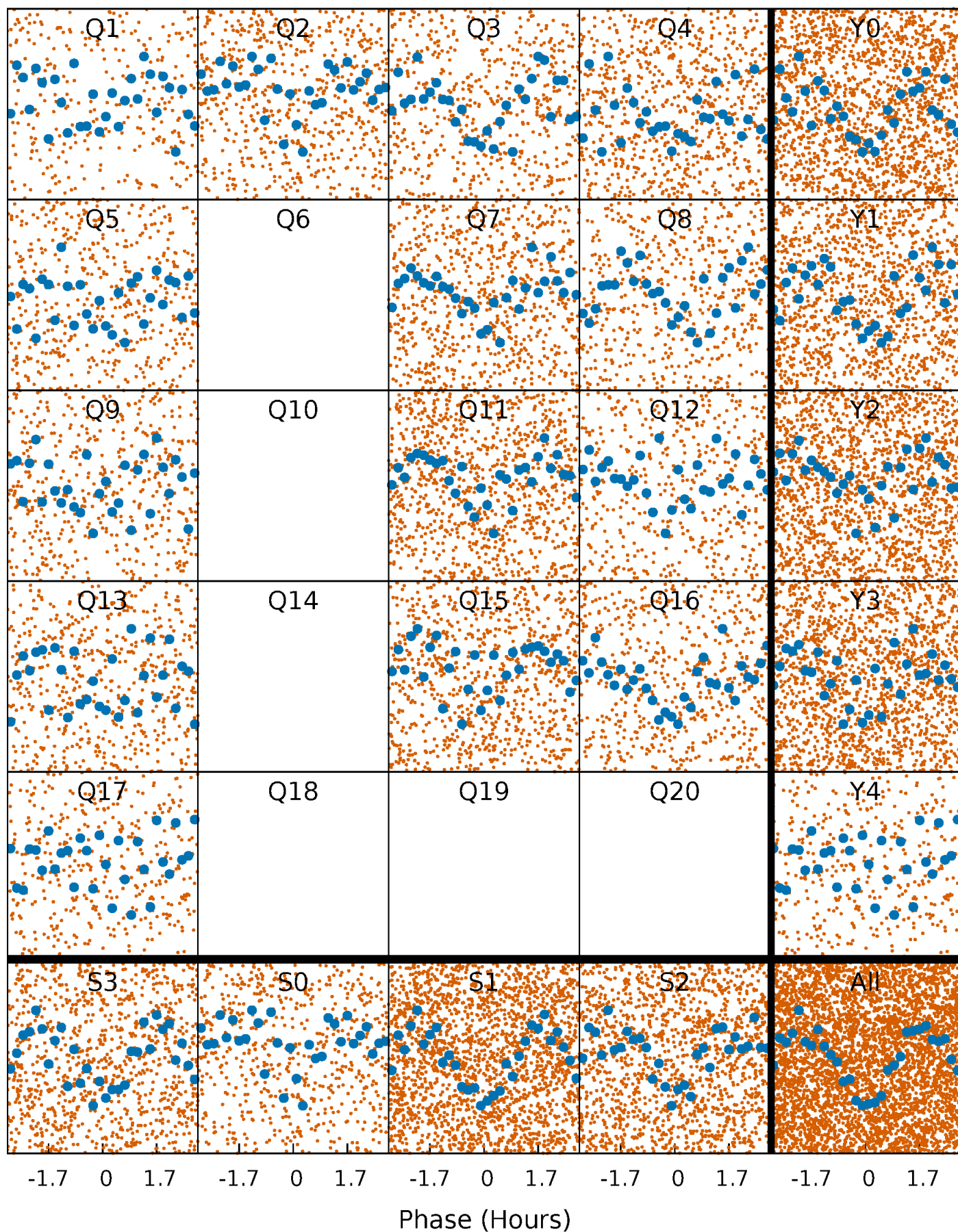


Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)



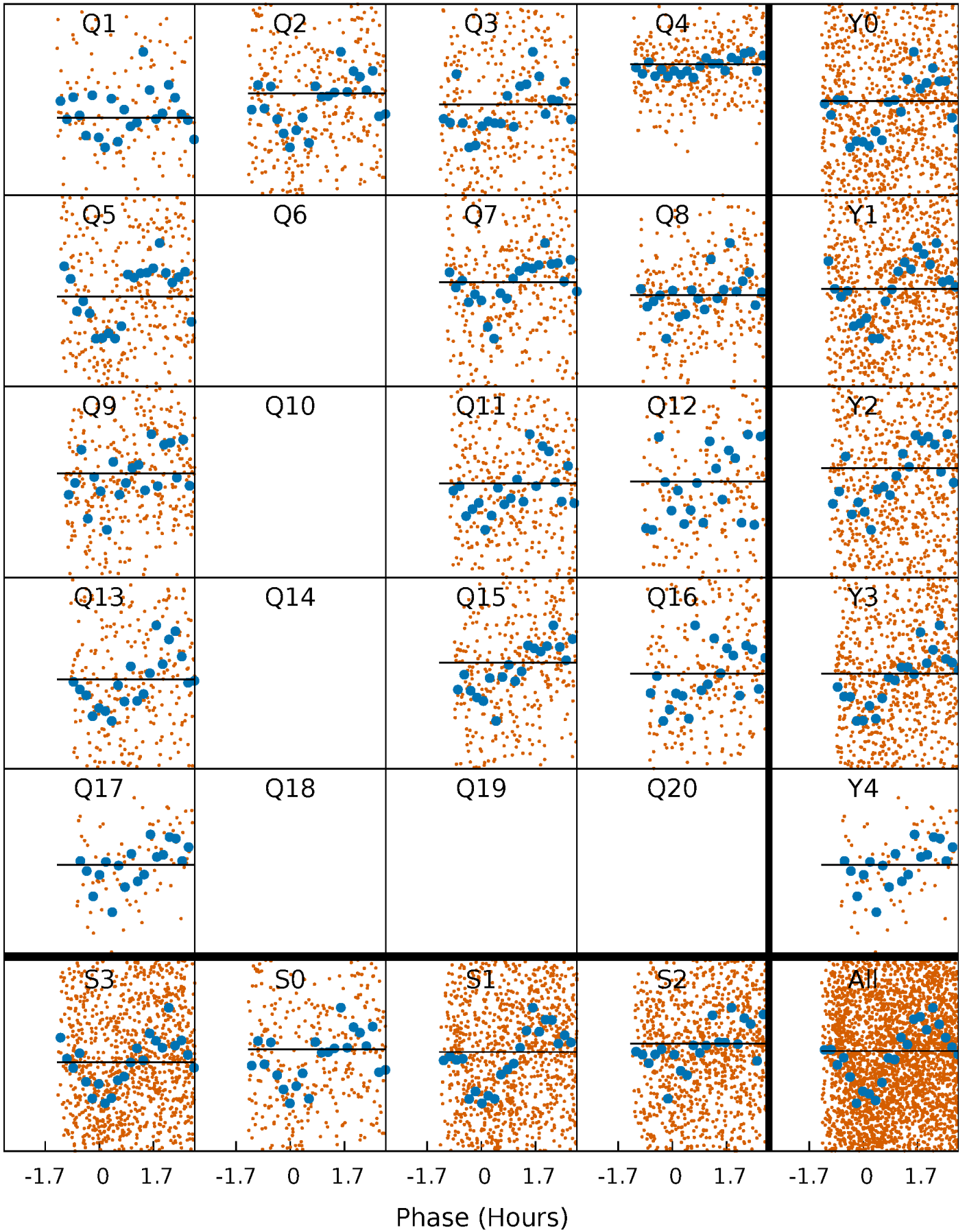
PDC Quarter-Phased Transit Curves

TCE 003763579-03 $P = 0.645646$ Days $T_0 = 131.848494$ (BKJD)



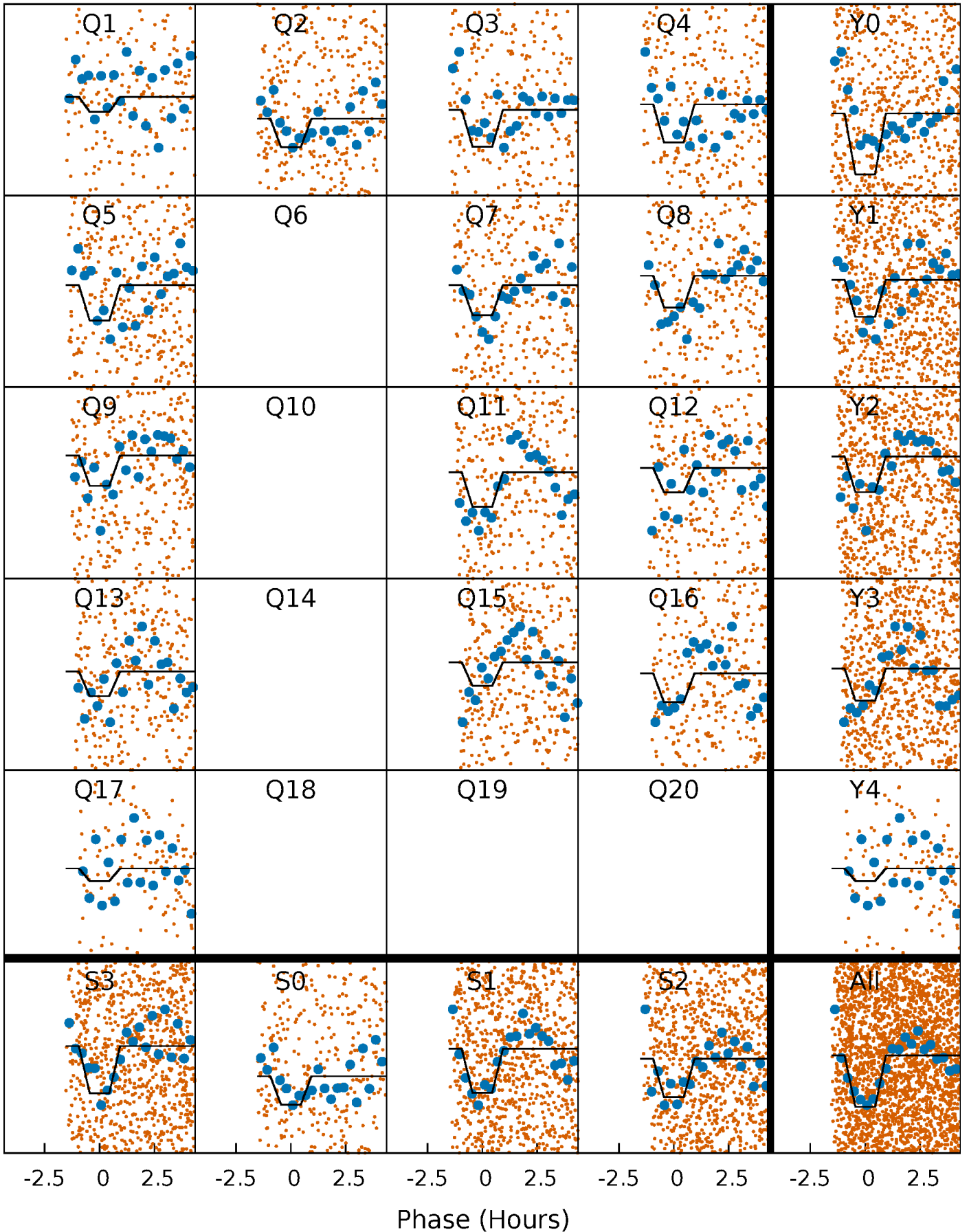
DV Quarter-Phased Transit Curves

TCE 003763579-03 $P = 0.645646$ Days $T_0 = 131.848494$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

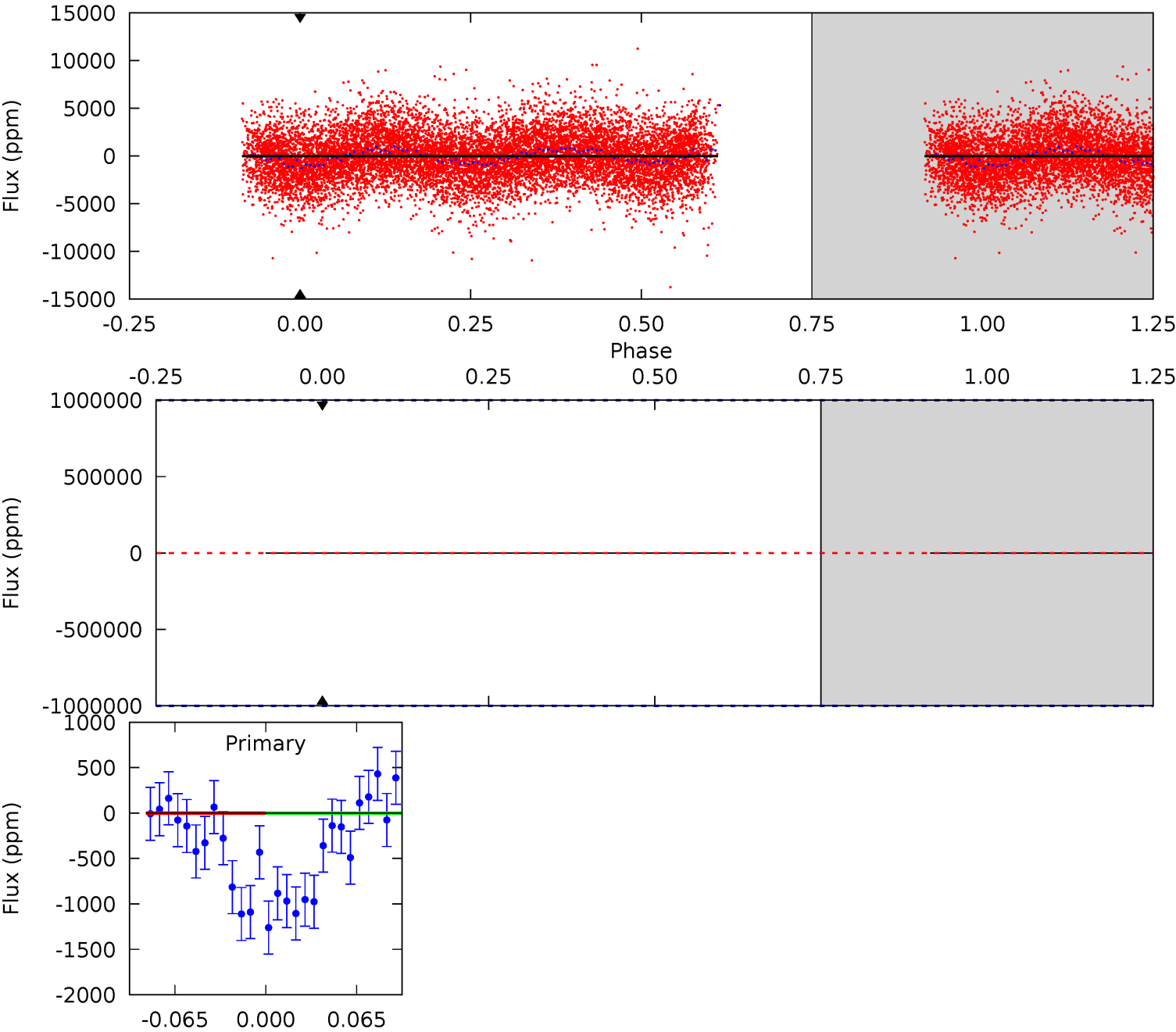
TCE 003763579-03 $P = 0.645646$ Days $T_0 = 131.856885$ (BKJD)



DV Model-Shift Uniqueness Test

003763579-03, P = 0.645646 Days, E = 131.202848 Days

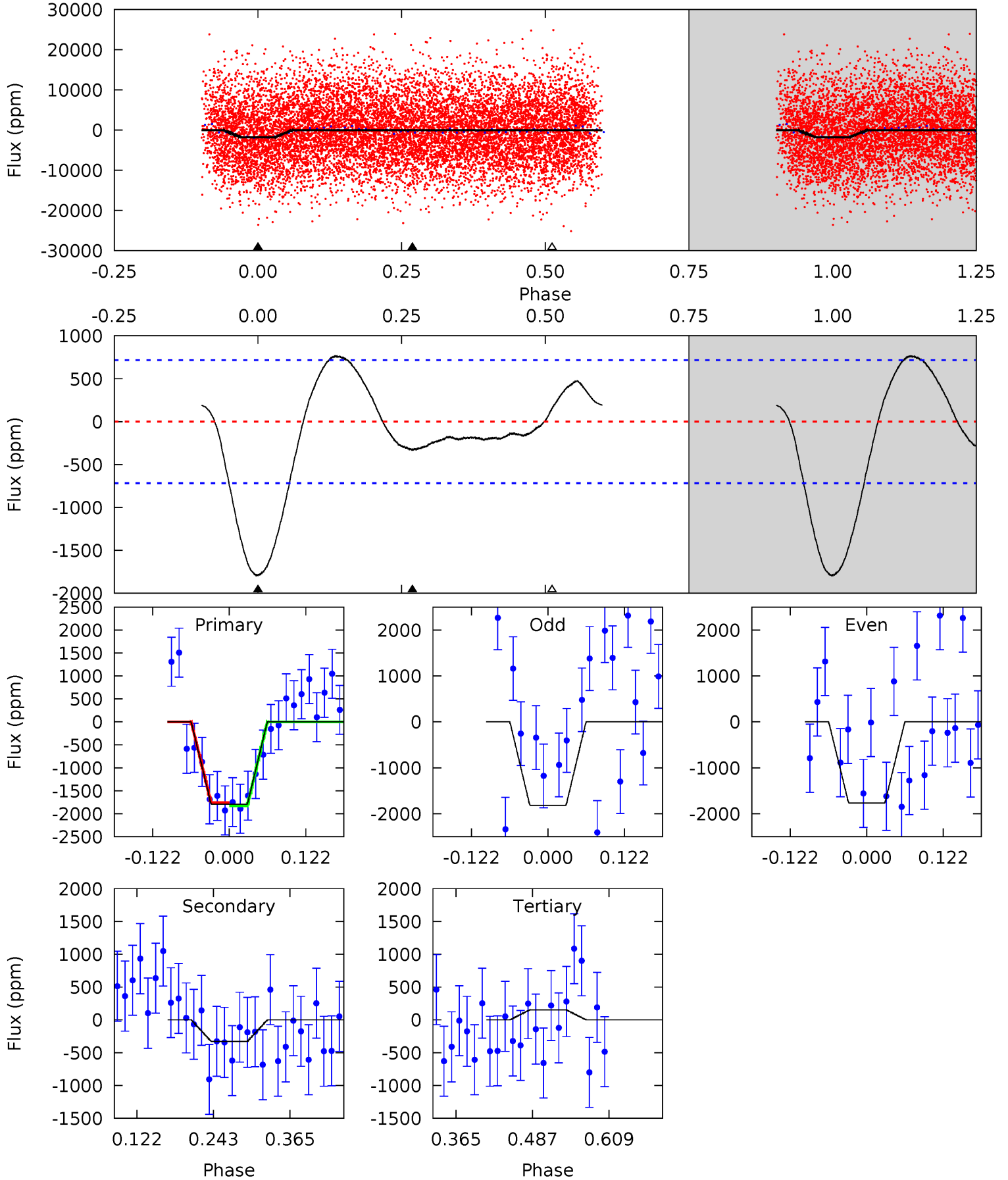
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

003763579-03, P = 0.645646 Days, E = 131.211239 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.3	2.07	-0.97	0	4.52	1.55	2.04	12.3	11.3	3.04	2.07	0.16	0.86	0.30	0.21



Stellar Parameters For KIC 003763579

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8554^{+235}_{-404}	$4.050^{+0.155}_{-0.140}$	$0.070^{+0.250}_{-0.550}$	$2.237^{+0.551}_{-0.606}$	$2.049^{+0.331}_{-0.497}$	$0.258^{+0.240}_{-0.106}$
	+3%/-5%	+4%/-3%	+357%/-786%	+25%/-27%	+16%/-24%	+93%/-41%
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 003763579-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$18.69^{+19.71}_{-13.08}$	5768^{+375}_{-435}	-4187^{+63760}_{-45022}	$-0.051^{+122.528}_{-86.626}$
Alt.	-328 ± 158	$20.76^{+20.28}_{-14.42}$	5755^{+393}_{-413}	-4100^{+10336}_{-567}	$0.135^{+1.400}_{-0.108}$

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

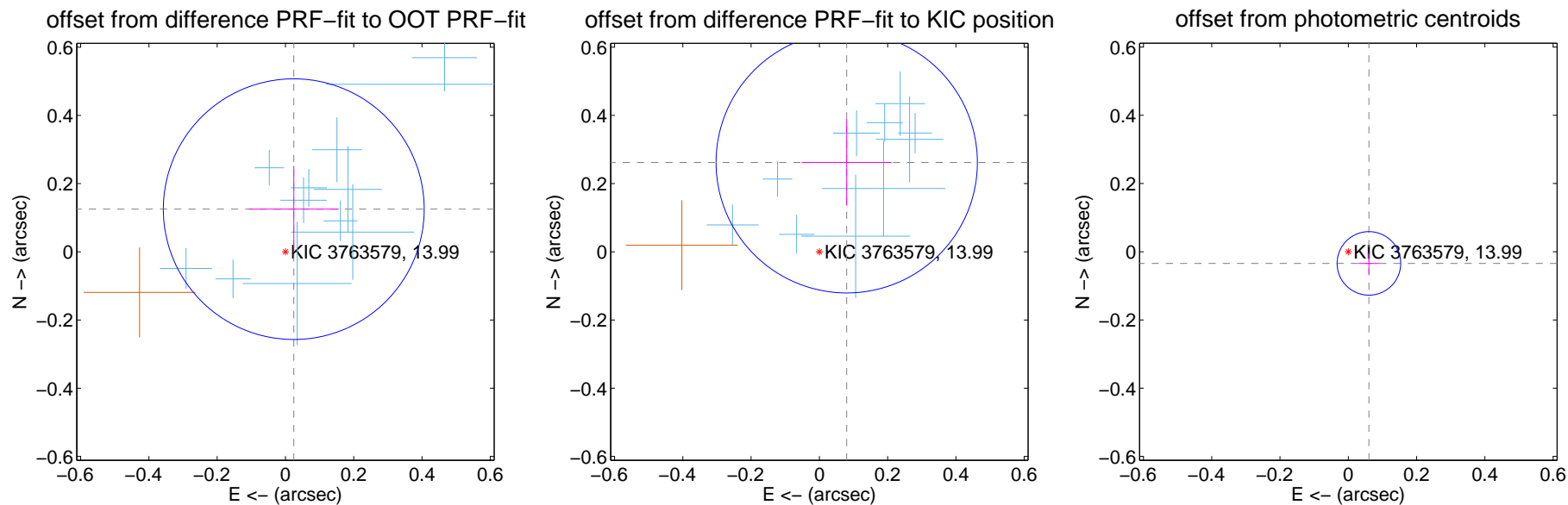
DV Centroid Data

Supplemental centroid analysis for 003763579-03. Kepler magnitude: 13.99. Transit SNR -1.00

There are 12 quarters with good PRF difference image offsets

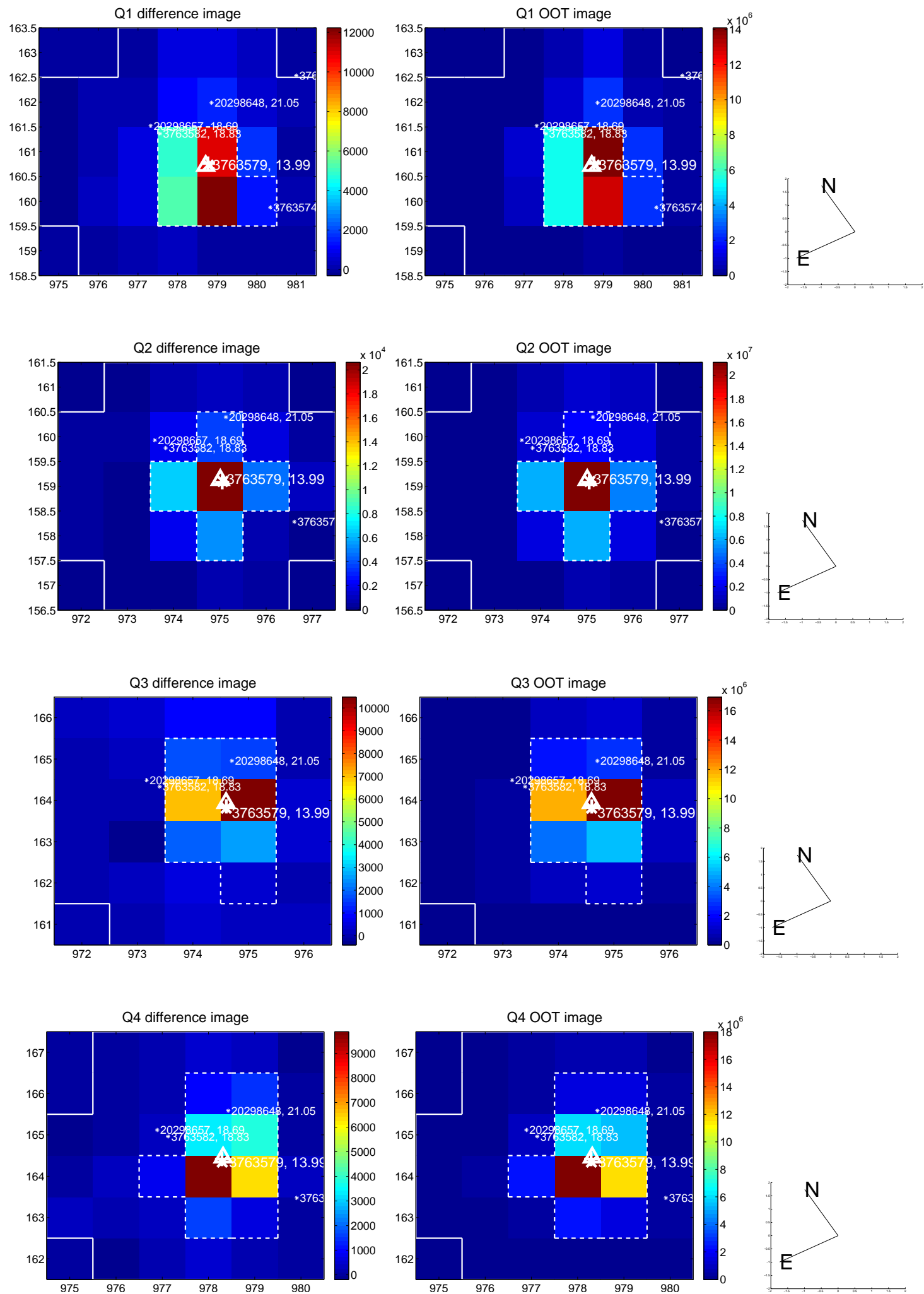
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.127 ± 0.127	1.00	-0.024 ± 0.131	0.125 ± 0.127
PRF-fit source offset from KIC position	0.274 ± 0.128	2.15	-0.080 ± 0.131	0.262 ± 0.127
photometric centroid source offset	0.07 ± 0.03	2.23	-0.06 ± 0.03	-0.03 ± 0.03

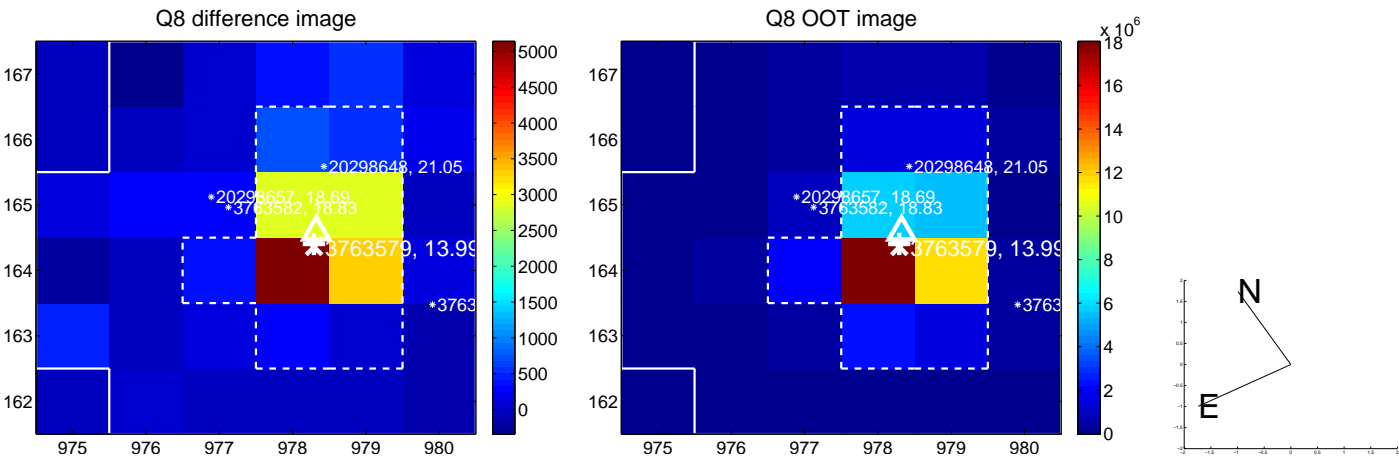
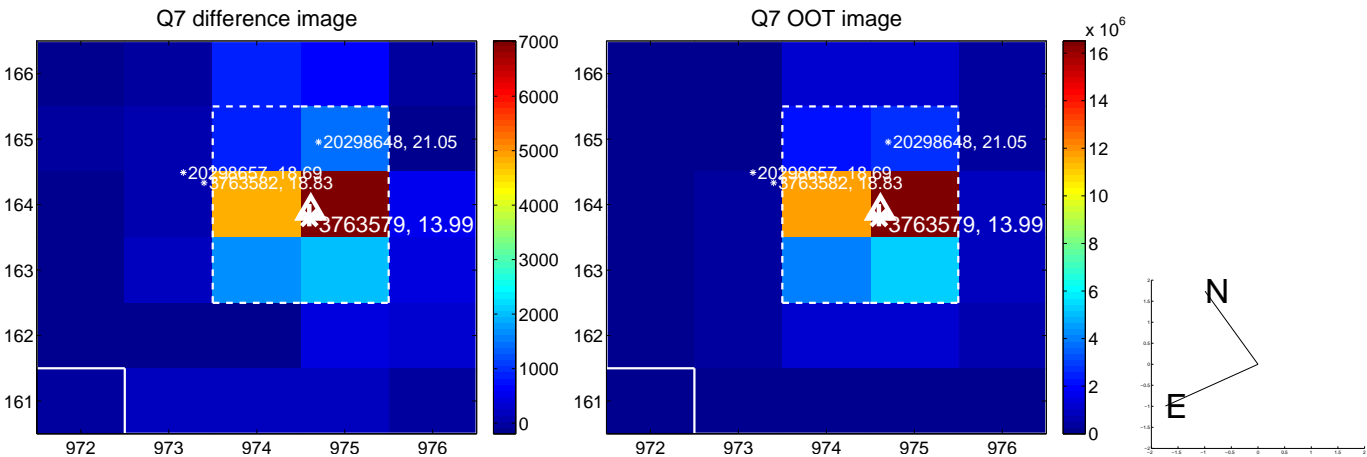
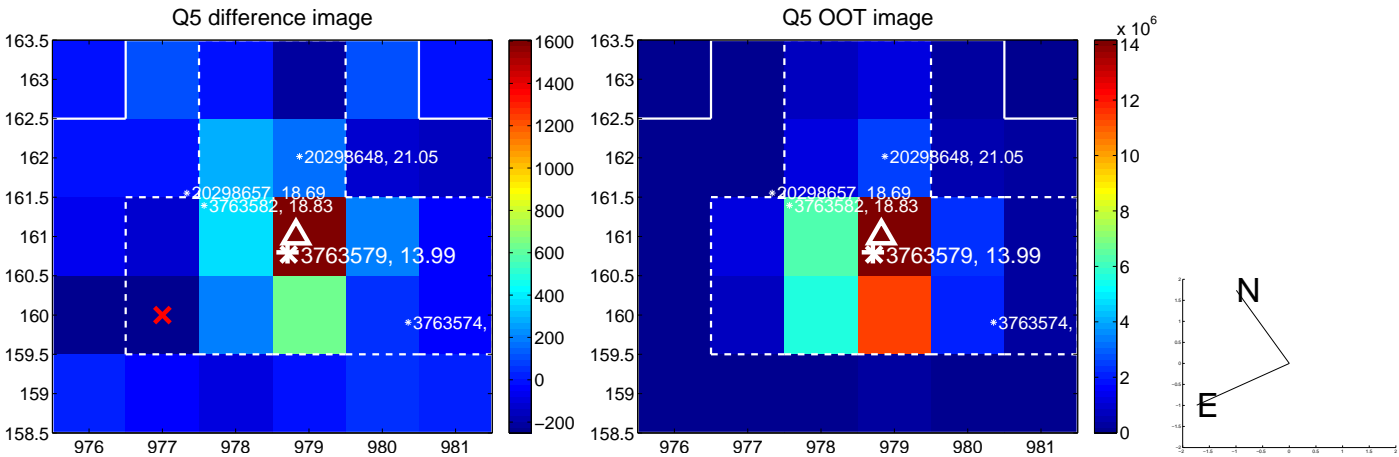


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

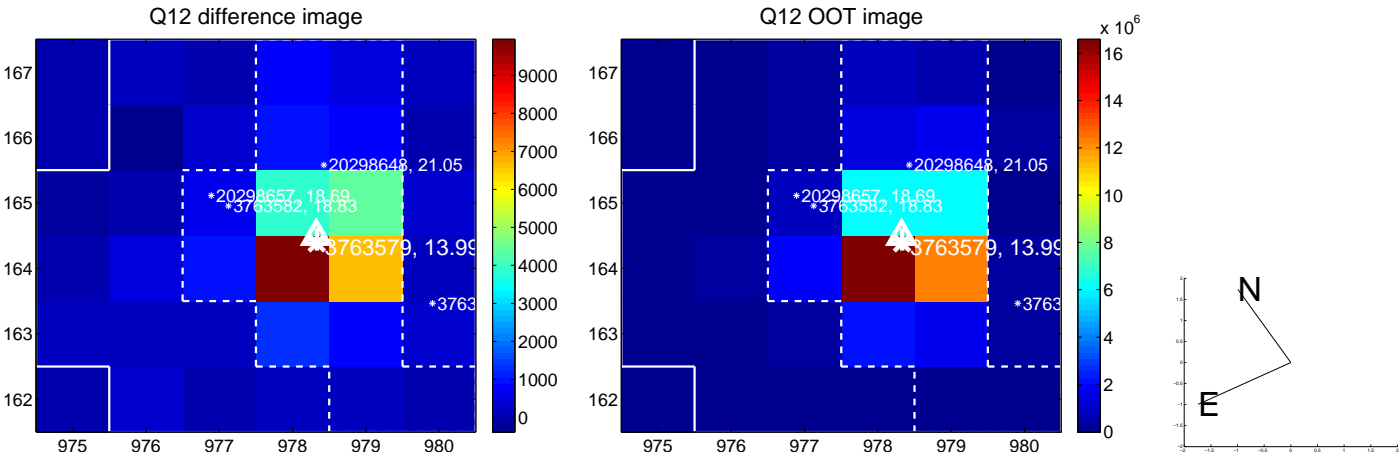
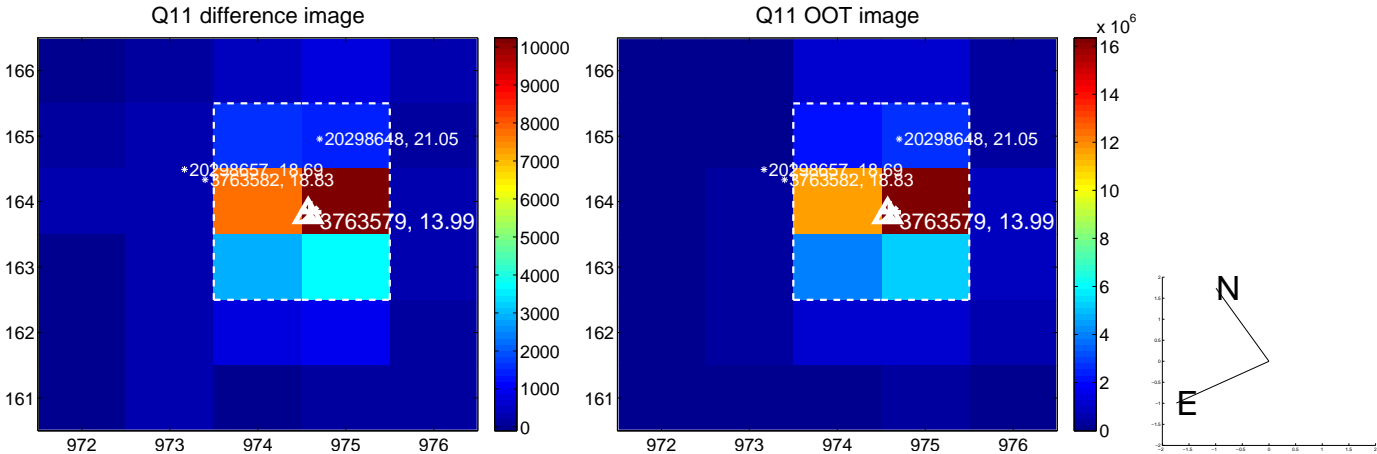
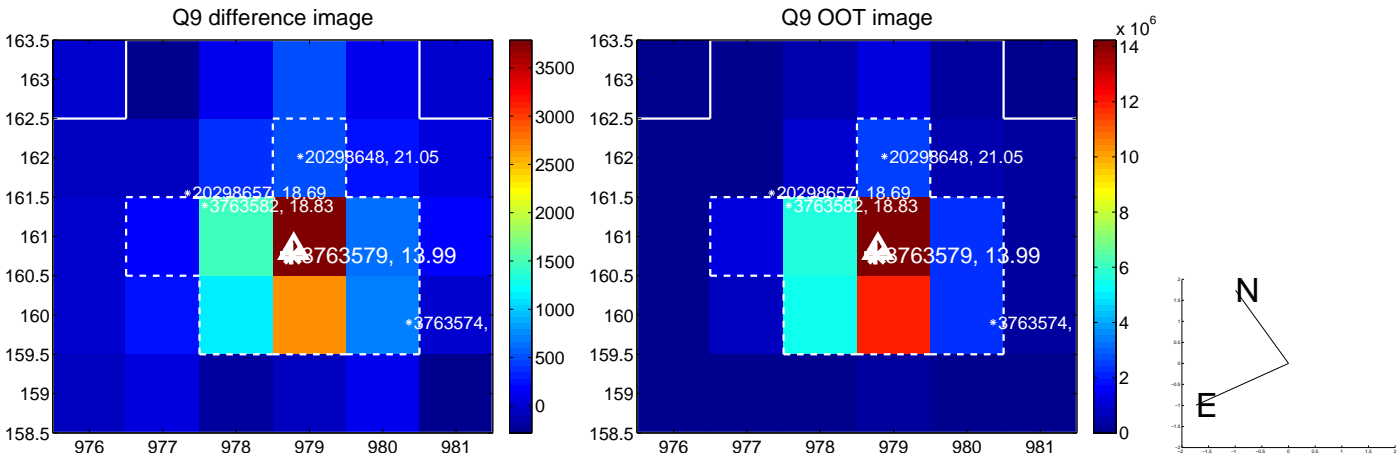
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



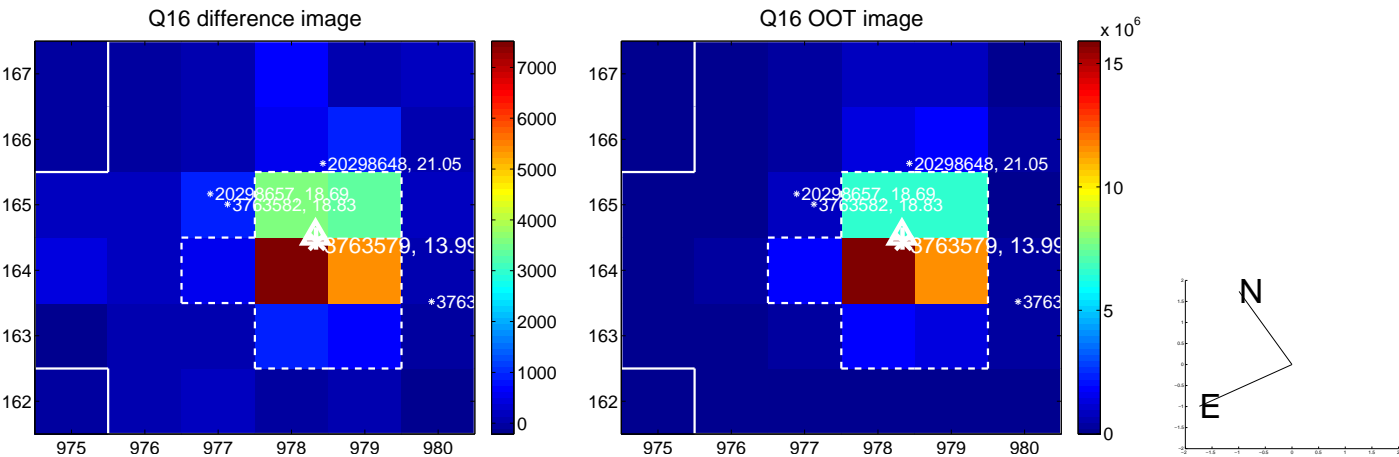
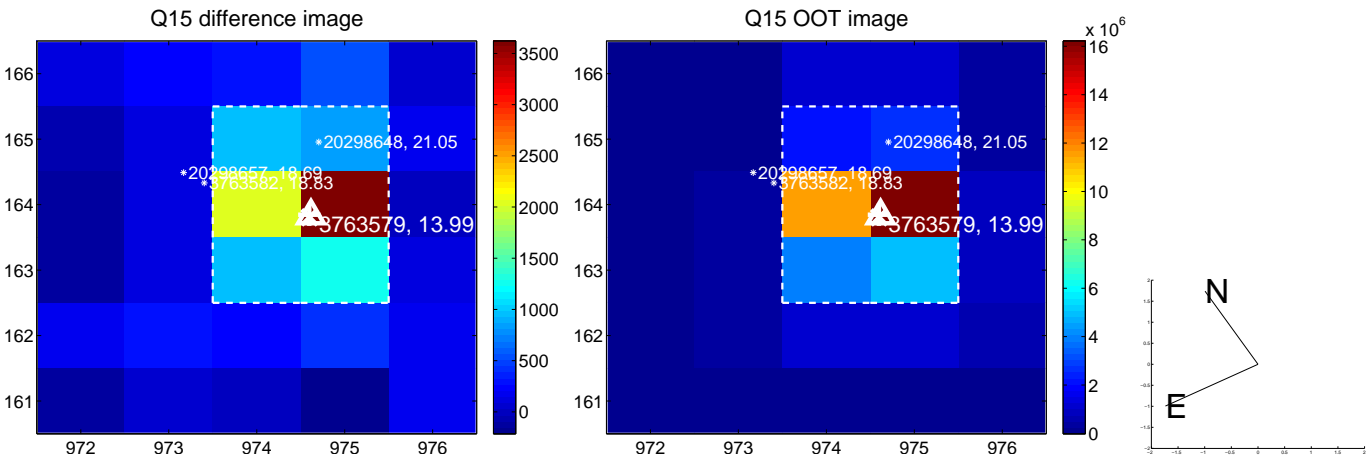
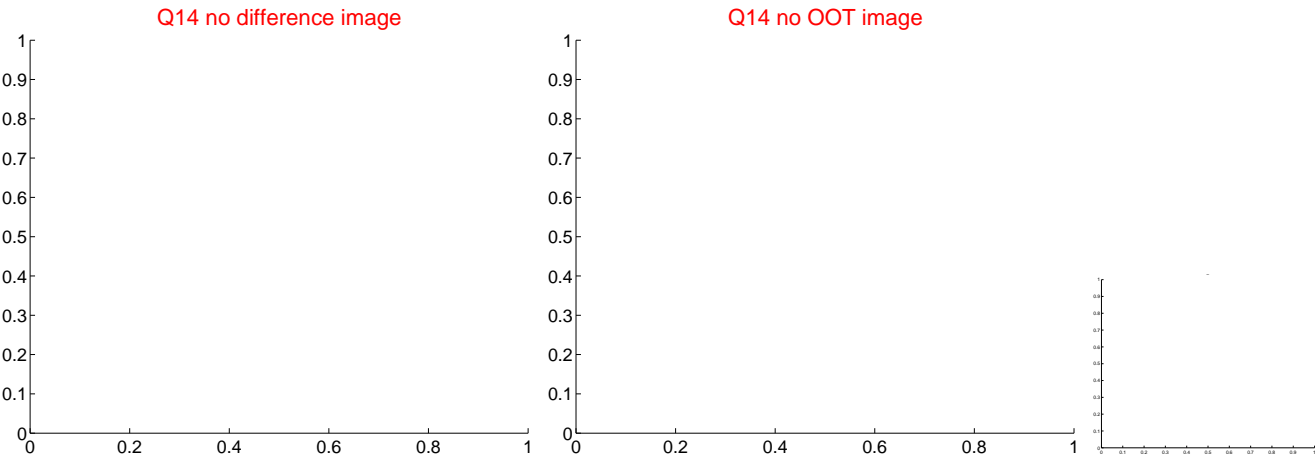
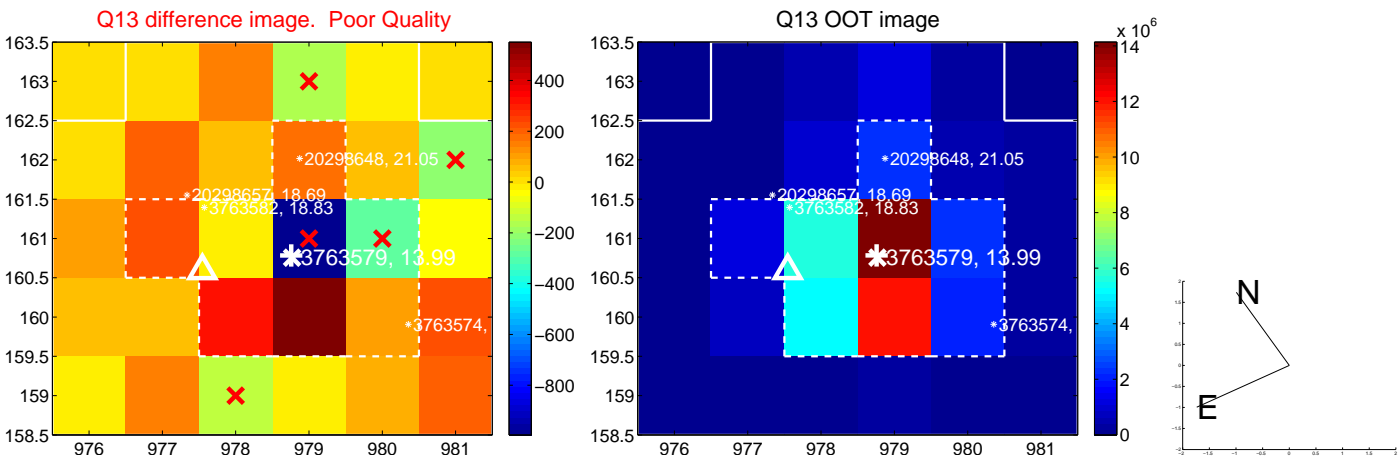
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



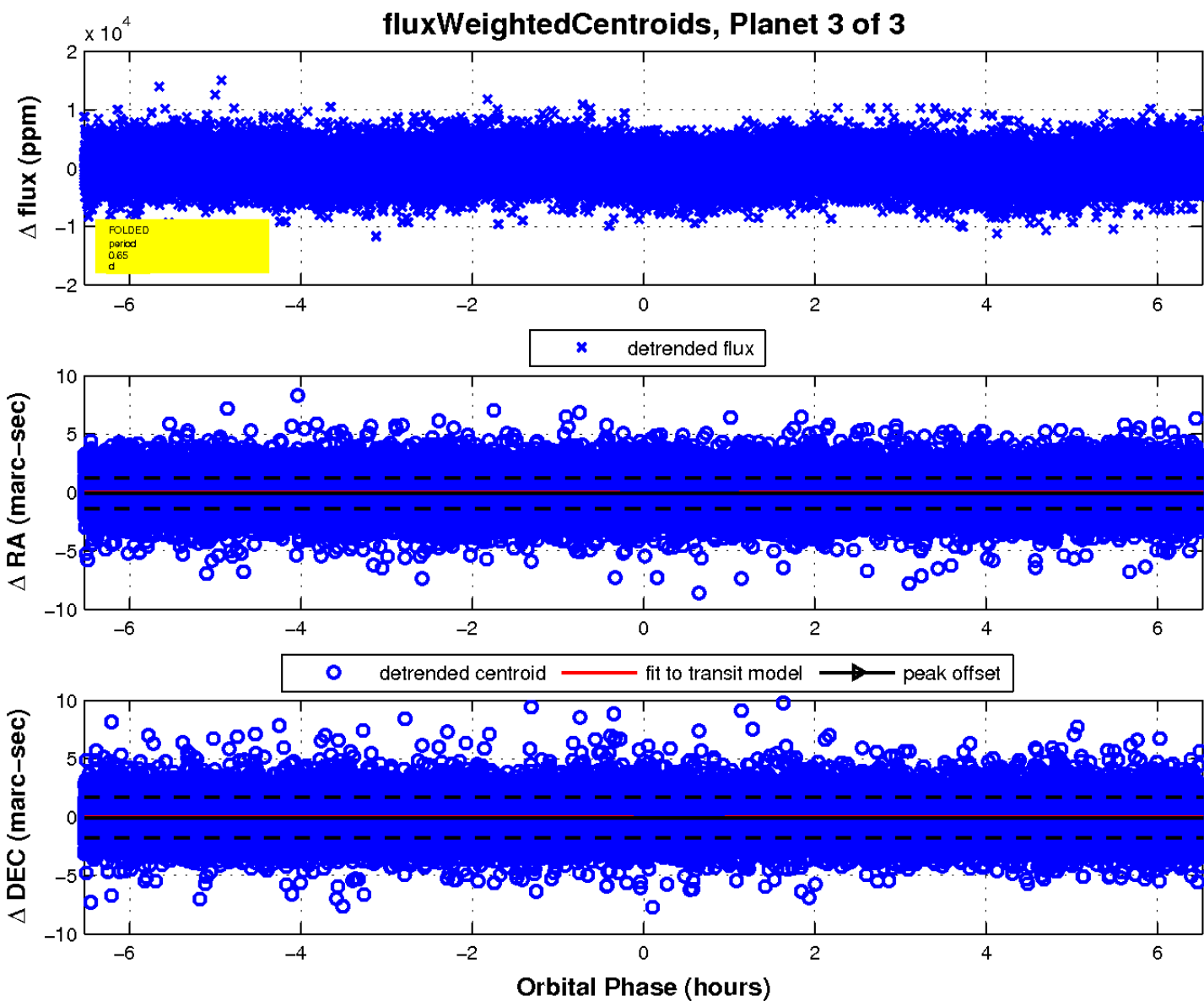
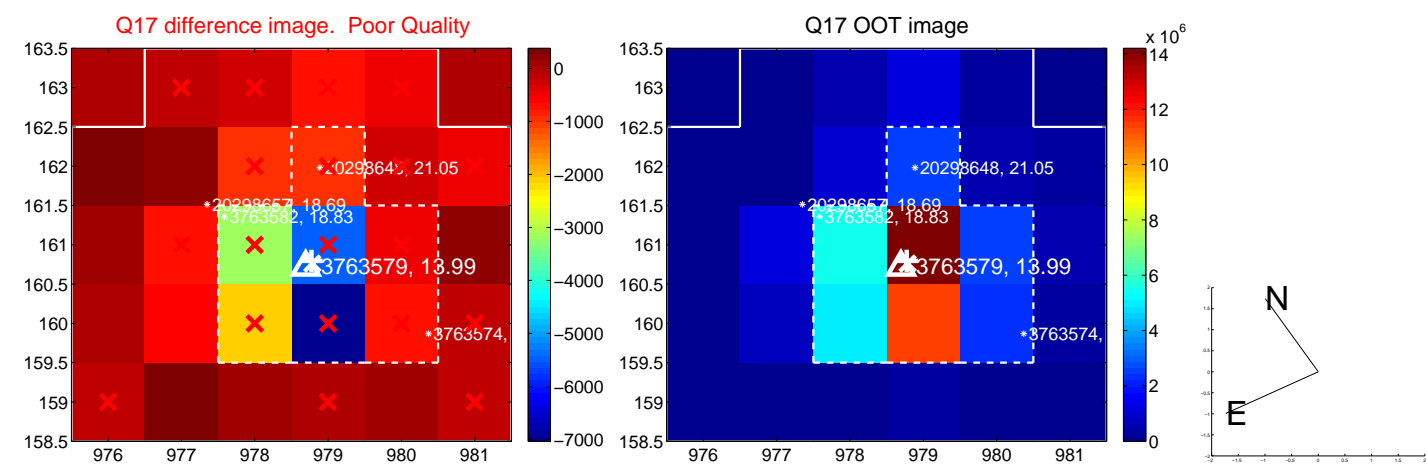
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

