

KIC 006527579

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})
006527579-01	OBS	No	0.715019	131.642096	24.5	5.077	9.1	9.9	0.99	6153	0.53	4959.66
006527579-02	OBS	No	26.012231	150.972550	459.2	1.384	12.3	11.8	0.99	6153	2.28	41.14
006527579-03	OBS	No	24.752692	145.894198	478.8	1.322	10.9	10.4	0.99	6153	2.24	43.96
006527579-04	OBS	No	27.125818	132.591456	964.9	0.595	9.0	8.5	0.99	6153	3.67	38.91

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006527579-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_UNRESOLVED_OFFSET
006527579-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
006527579-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS
006527579-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

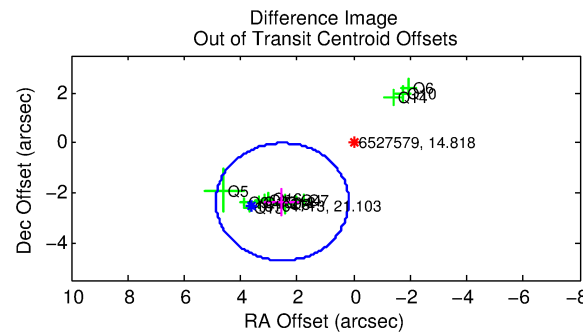
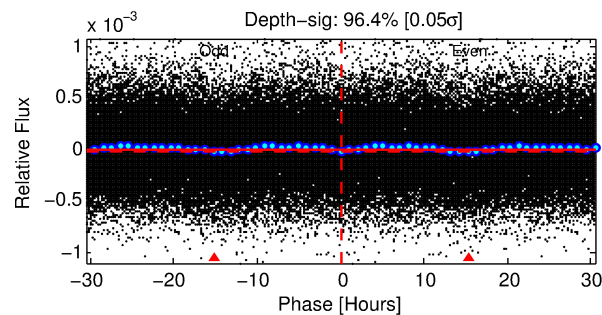
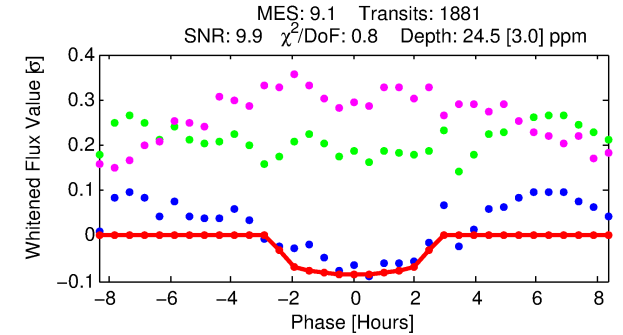
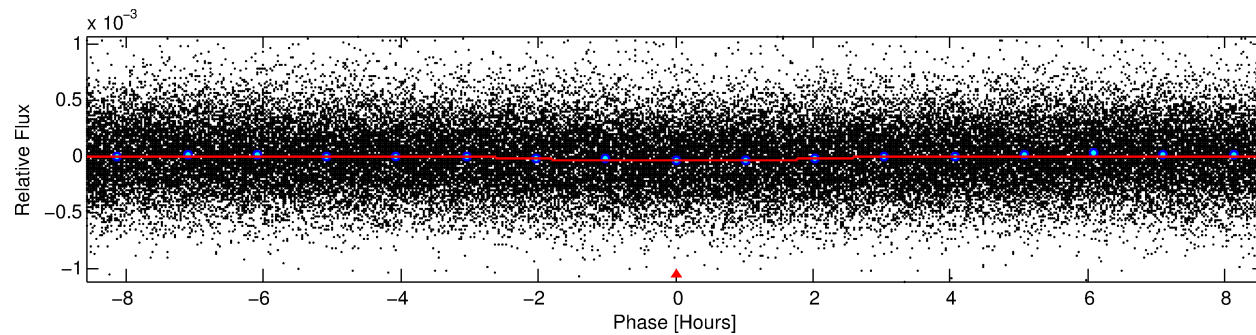
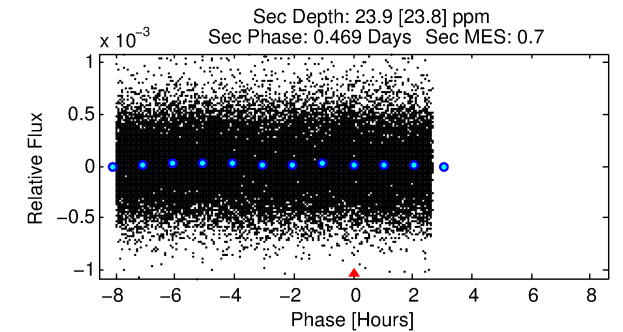
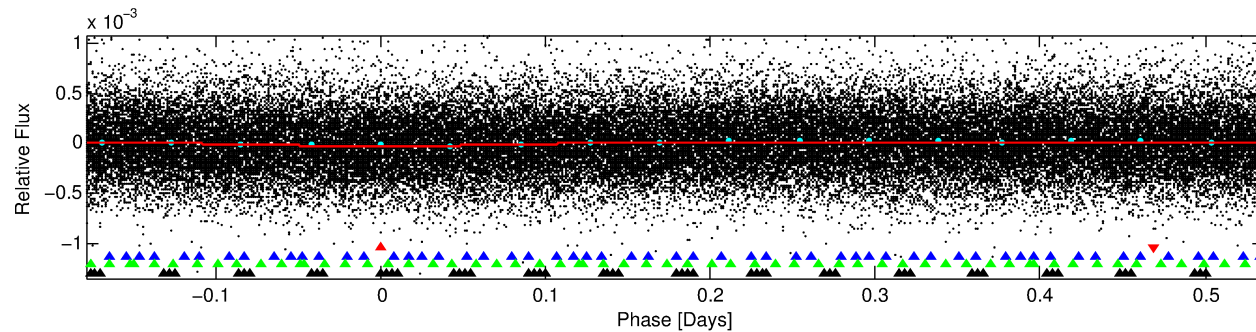
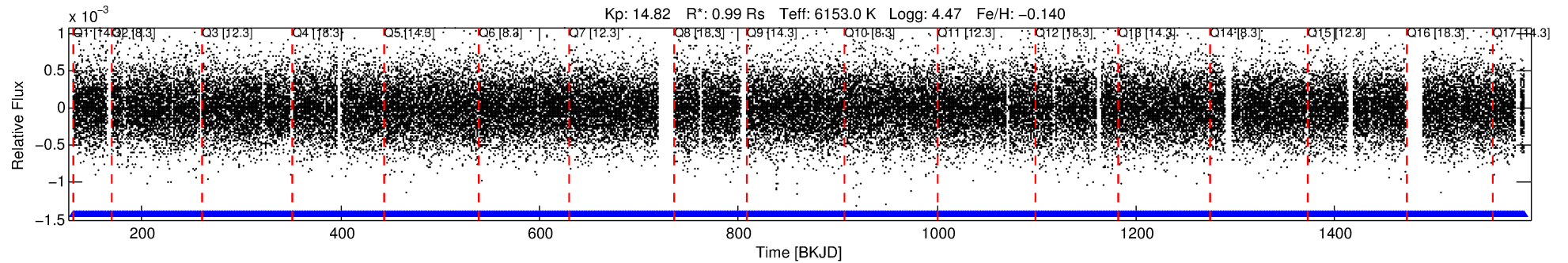
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006527579-01

No Significant Match Found

DV One-Page Summary

KIC: 6527579 Candidate: 1 of 4 Period: 0.715 d



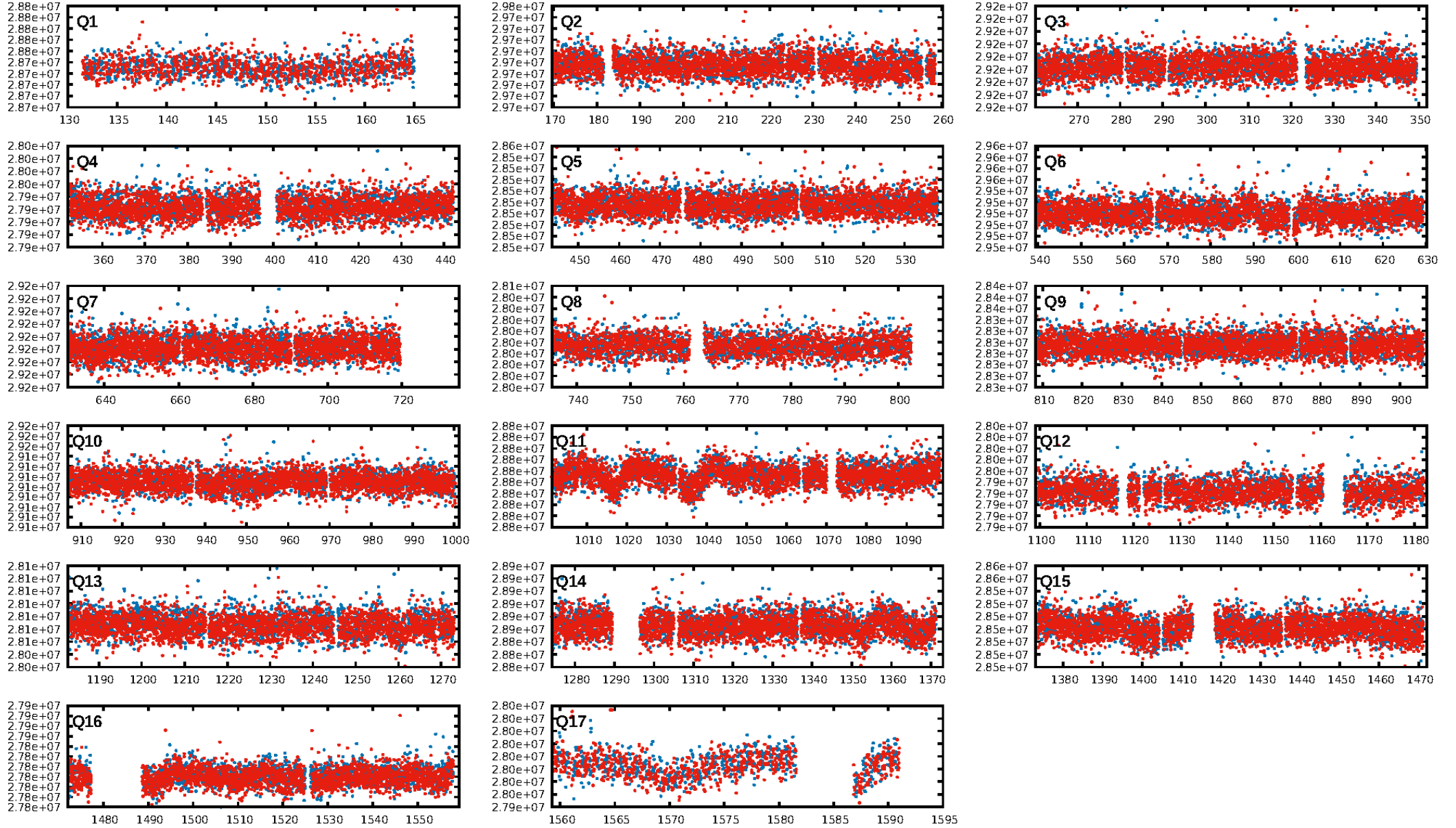
DV Fit Results:

Period = 0.71502 [0.00001] d
Epoch = 131.6421 [0.0058] BKJD
Rp/R* = 0.0049 [0.0050]
a/R* = 1.13 [1.31]
b = 0.72 [3.59]
Seff = 4959.66 [1923.93]
Teff = 2140 [208] K
Rp = 0.53 [0.56] Re
a = 0.0160 [0.0039] AU
Ag = 12.04 [27.81] [0.40σ]
Teffp = 6162 [3522] K [1.14σ]

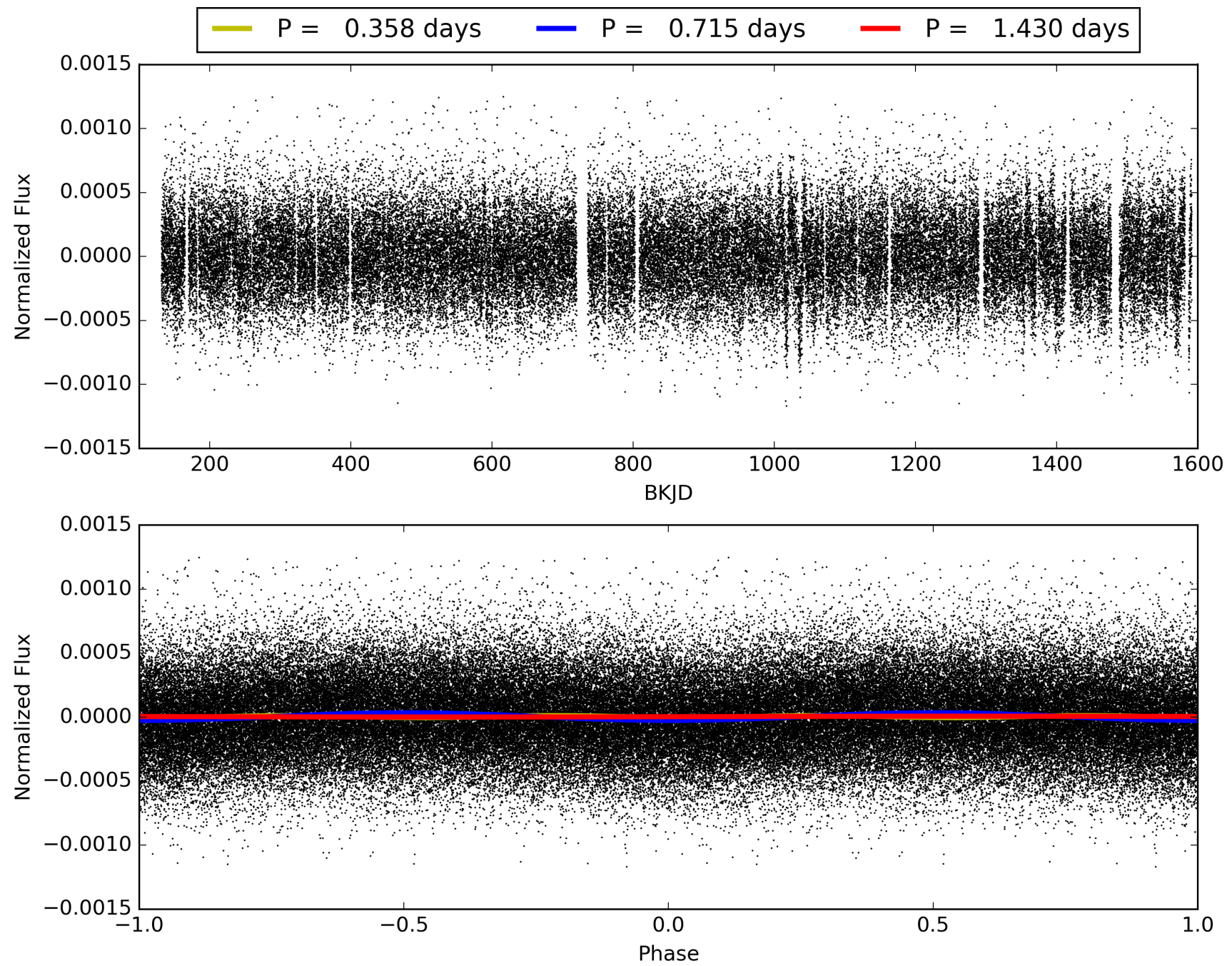
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [109.97σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.20e-06
RollingBand-fgt: 1.00 [1797/1797]
GhostDiagnostic-chr: 1.19
Centroid-sig: 0.0%
Centroid-so: 7.913 arcsec [5.71σ]
OotOffset-rm: 3.465 arcsec [4.42σ]
KicOffset-rm: 3.549 arcsec [5.09σ]
OotOffset-st: 3/4/3/3 [13]
KicOffset-st: 3/4/3/3 [13]
DiffImageQuality-fgm: 0.92 [12/13]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 006527579-01, PDC Light Curves

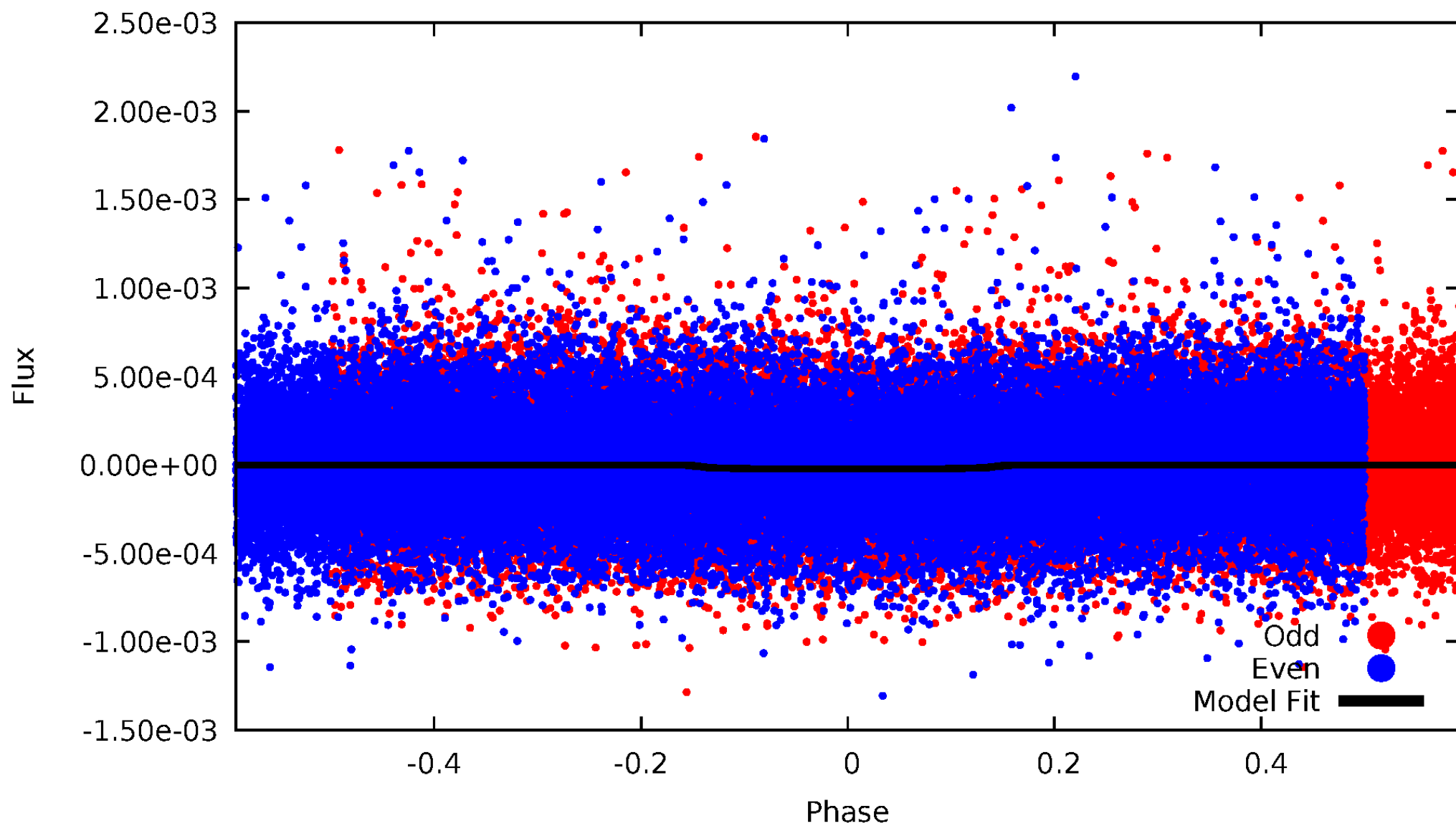


TCE 006527579-01



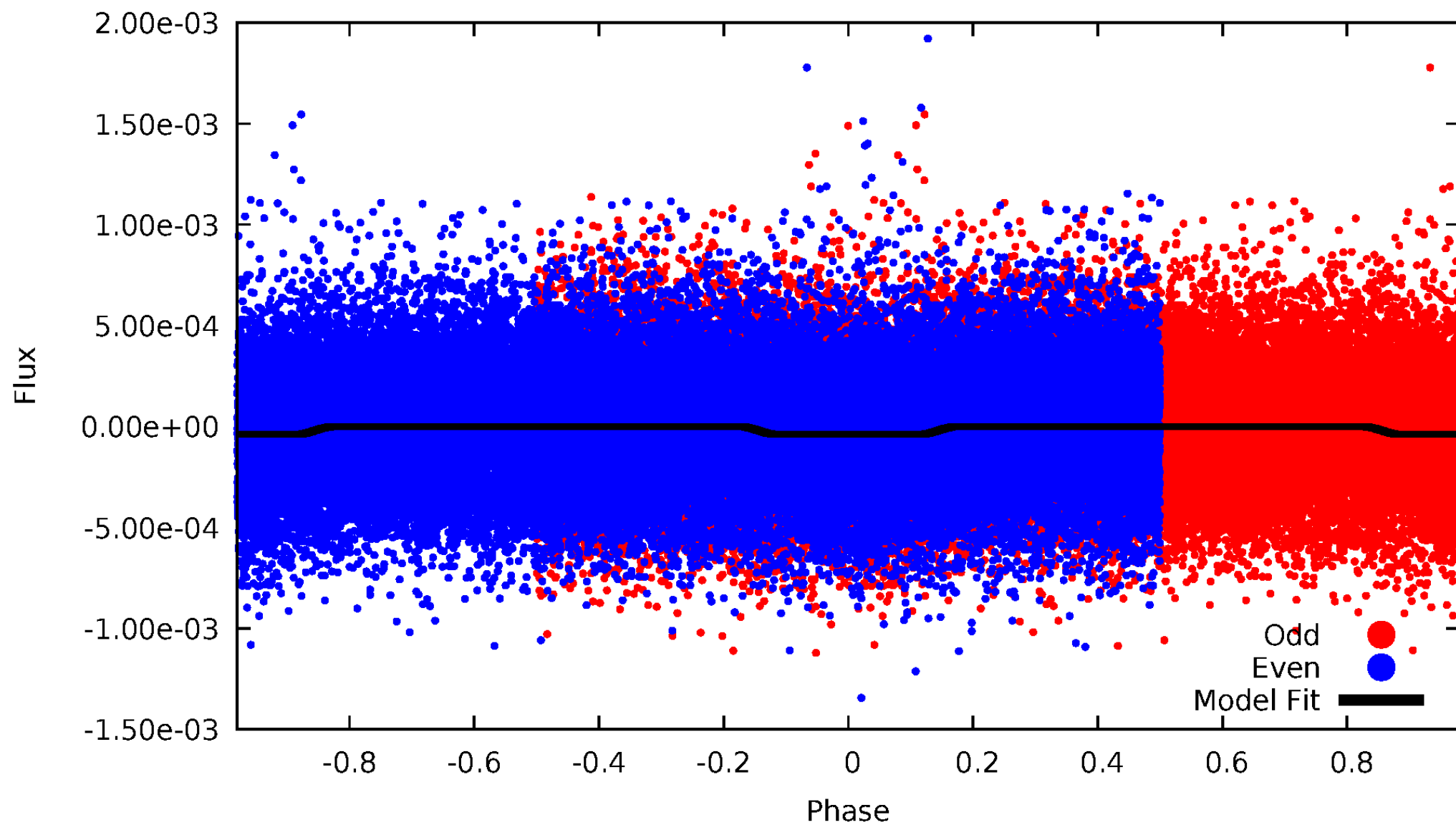
DV Odd/Even

TCE 006527579-01

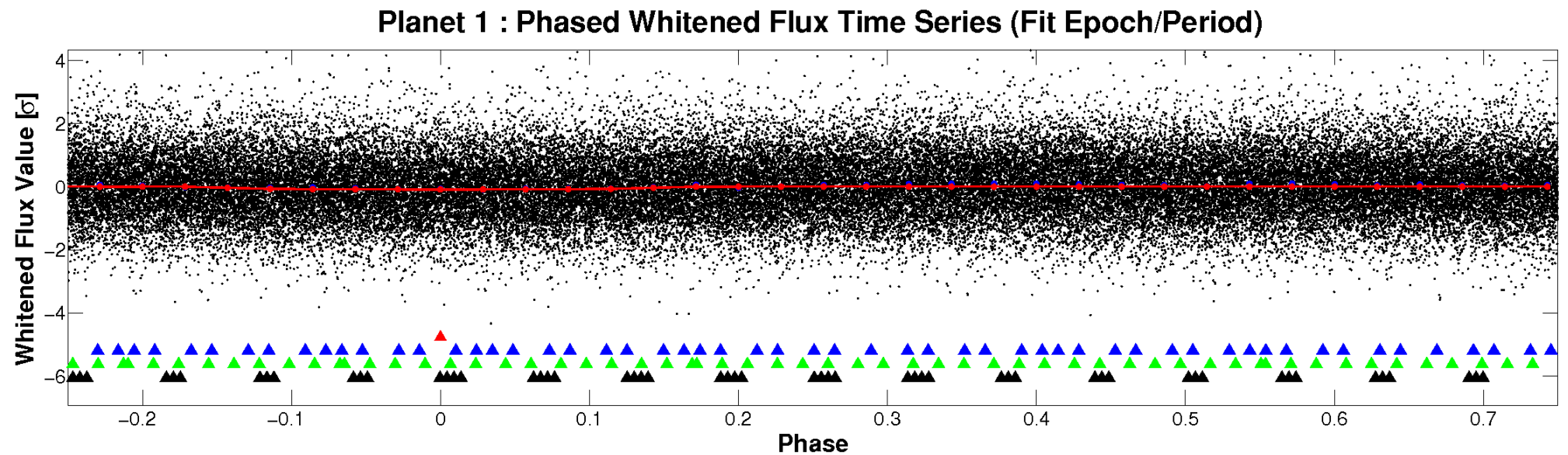
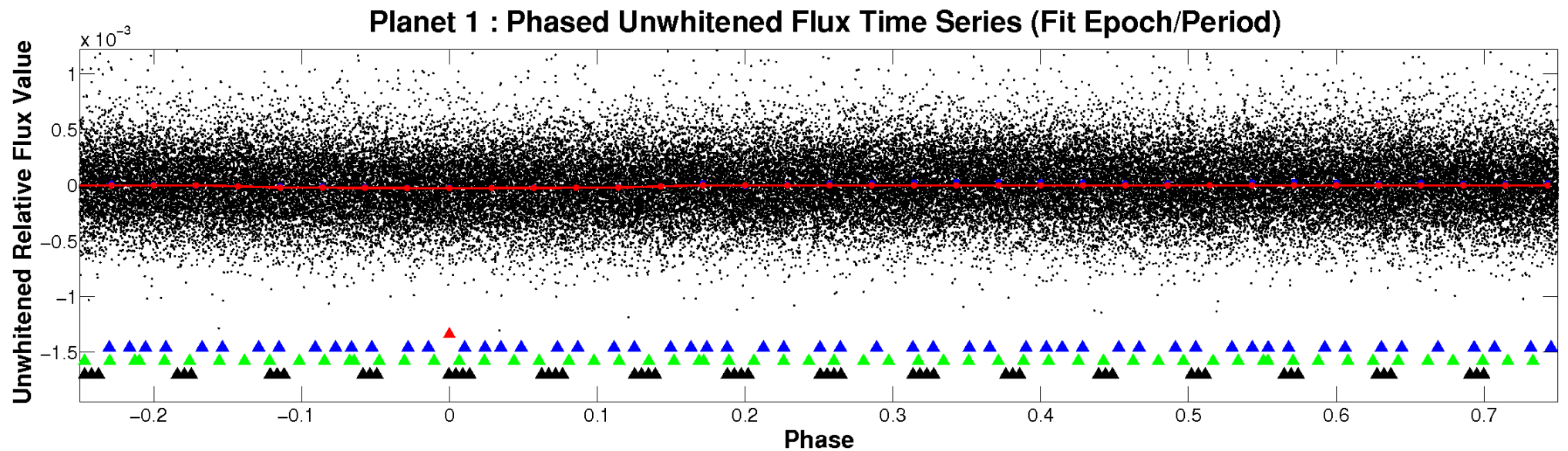


ALT Odd/Even

TCE 006527579-01

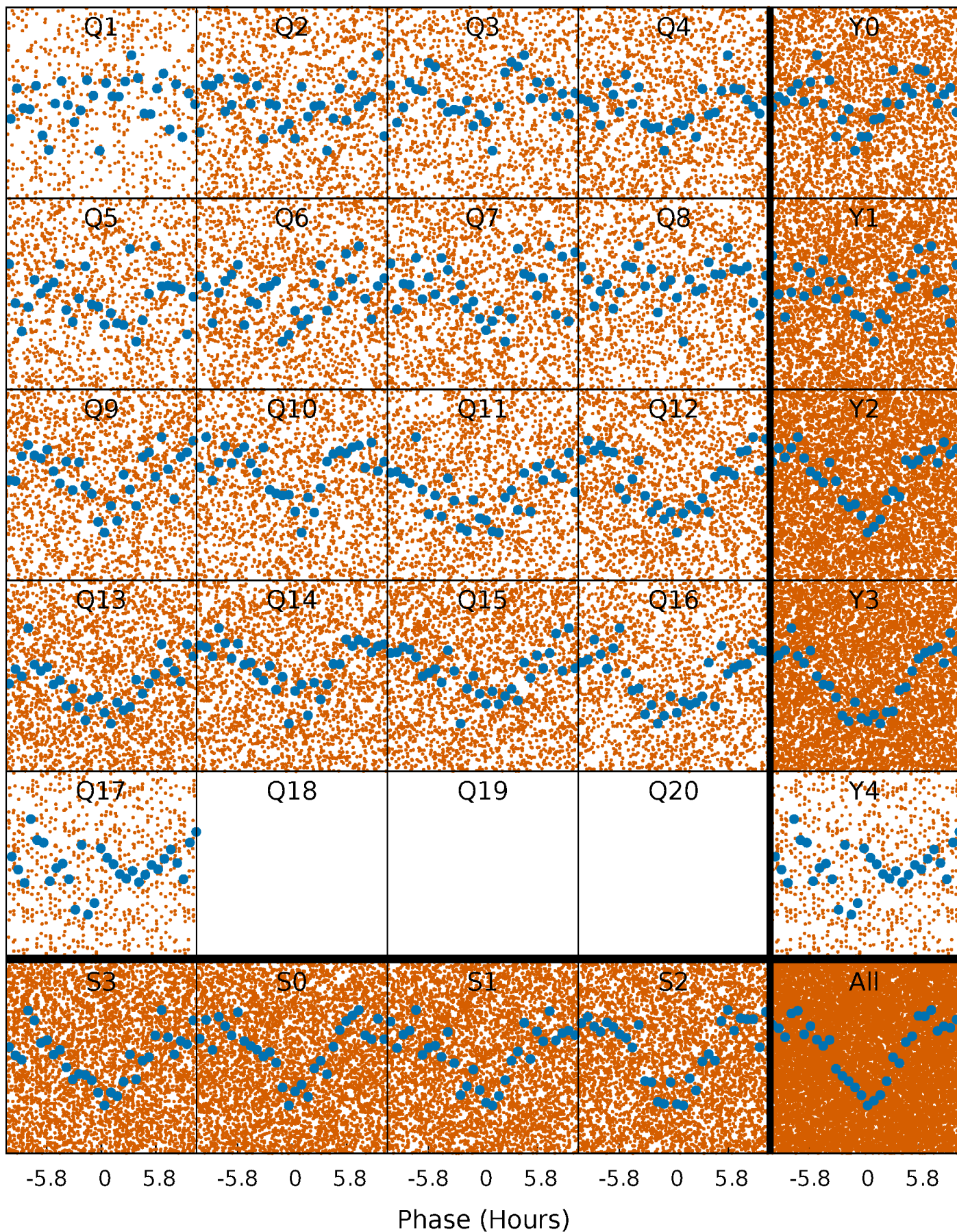


Non-Whitened Vs. Whitened Light Curve



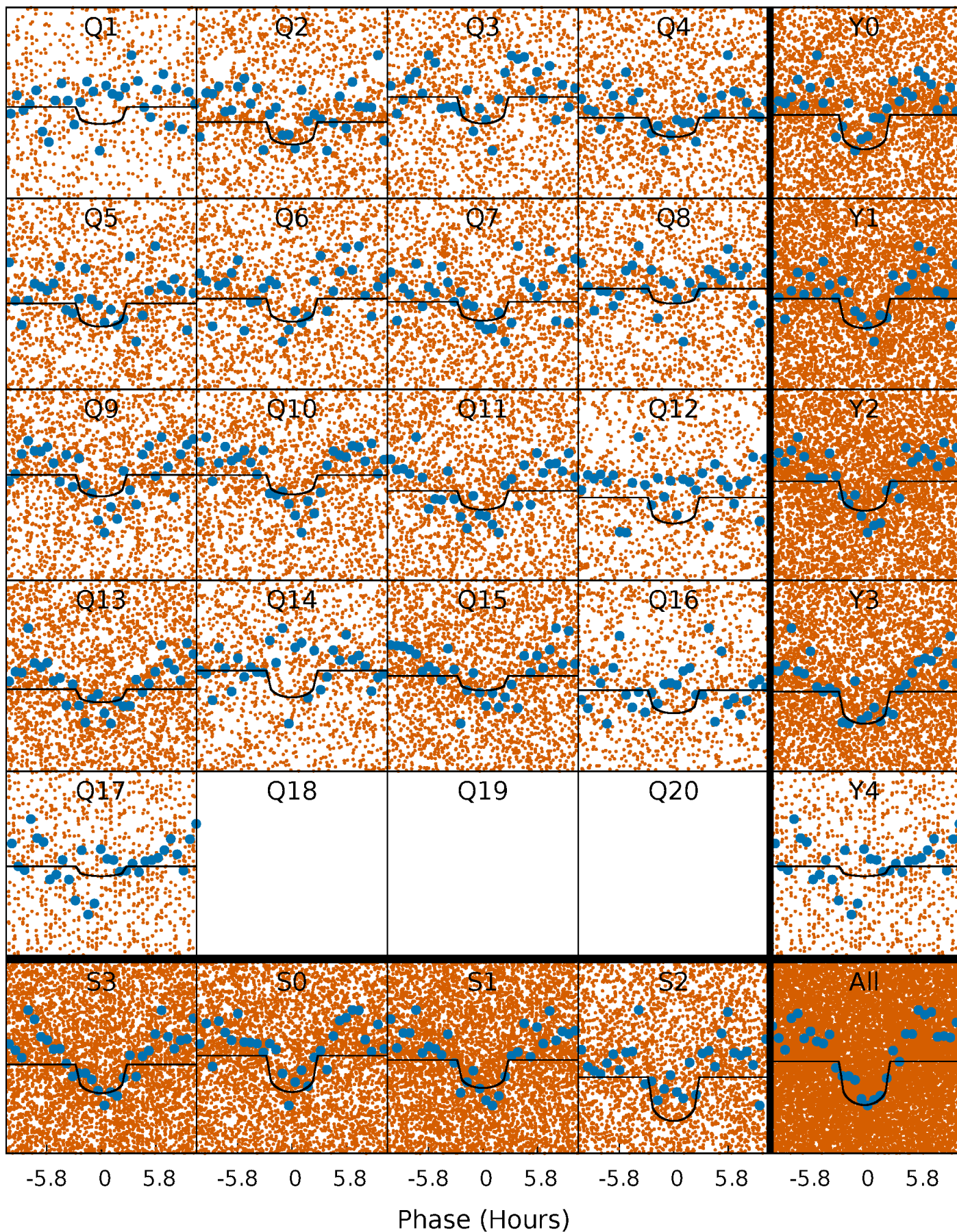
PDC Quarter-Phased Transit Curves

TCE 006527579-01 P= 0.715019 Days $T_0=131.642096$ (BKJD)



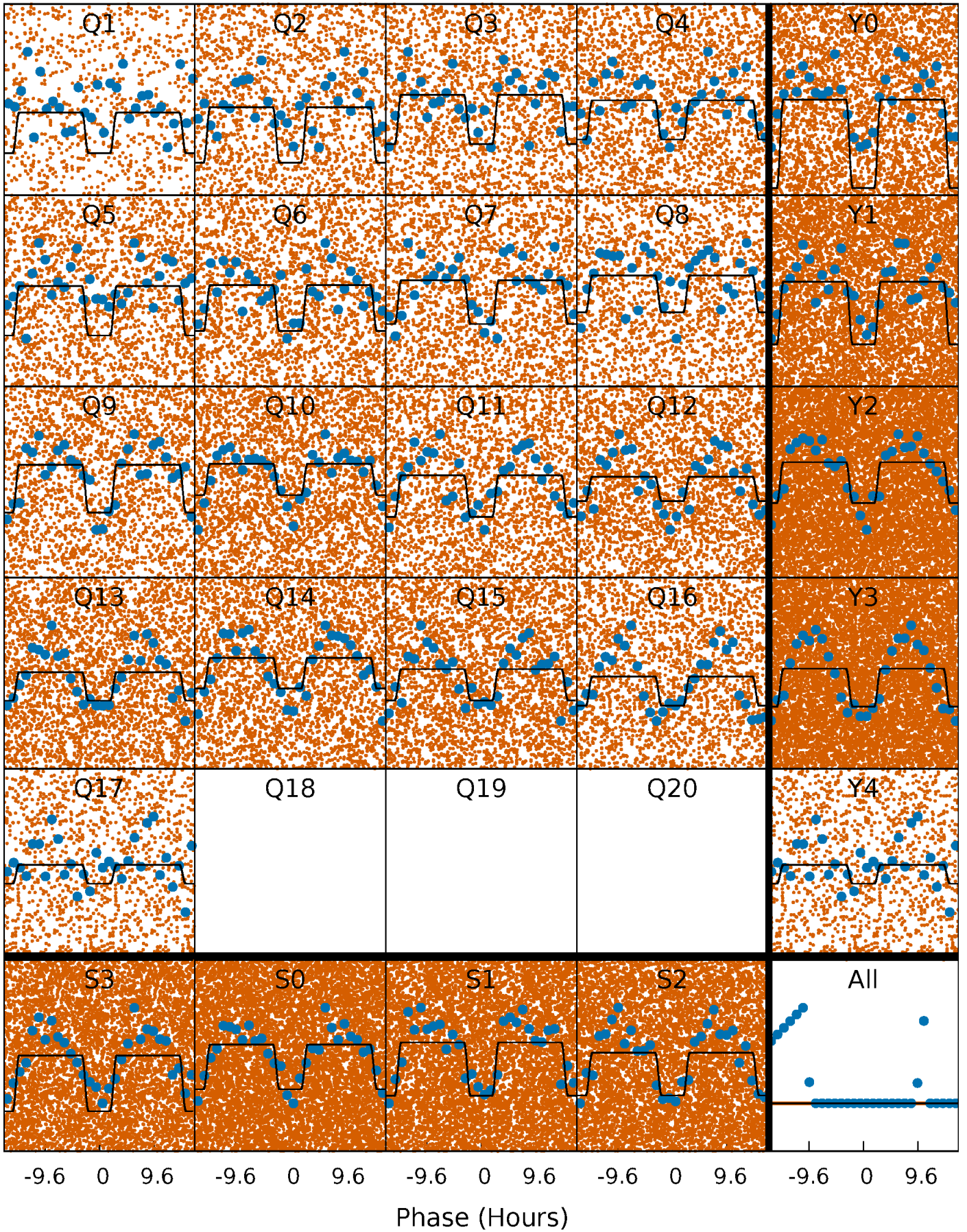
DV Quarter-Phased Transit Curves

TCE 006527579-01 P= 0.715019 Days $T_0=131.642096$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

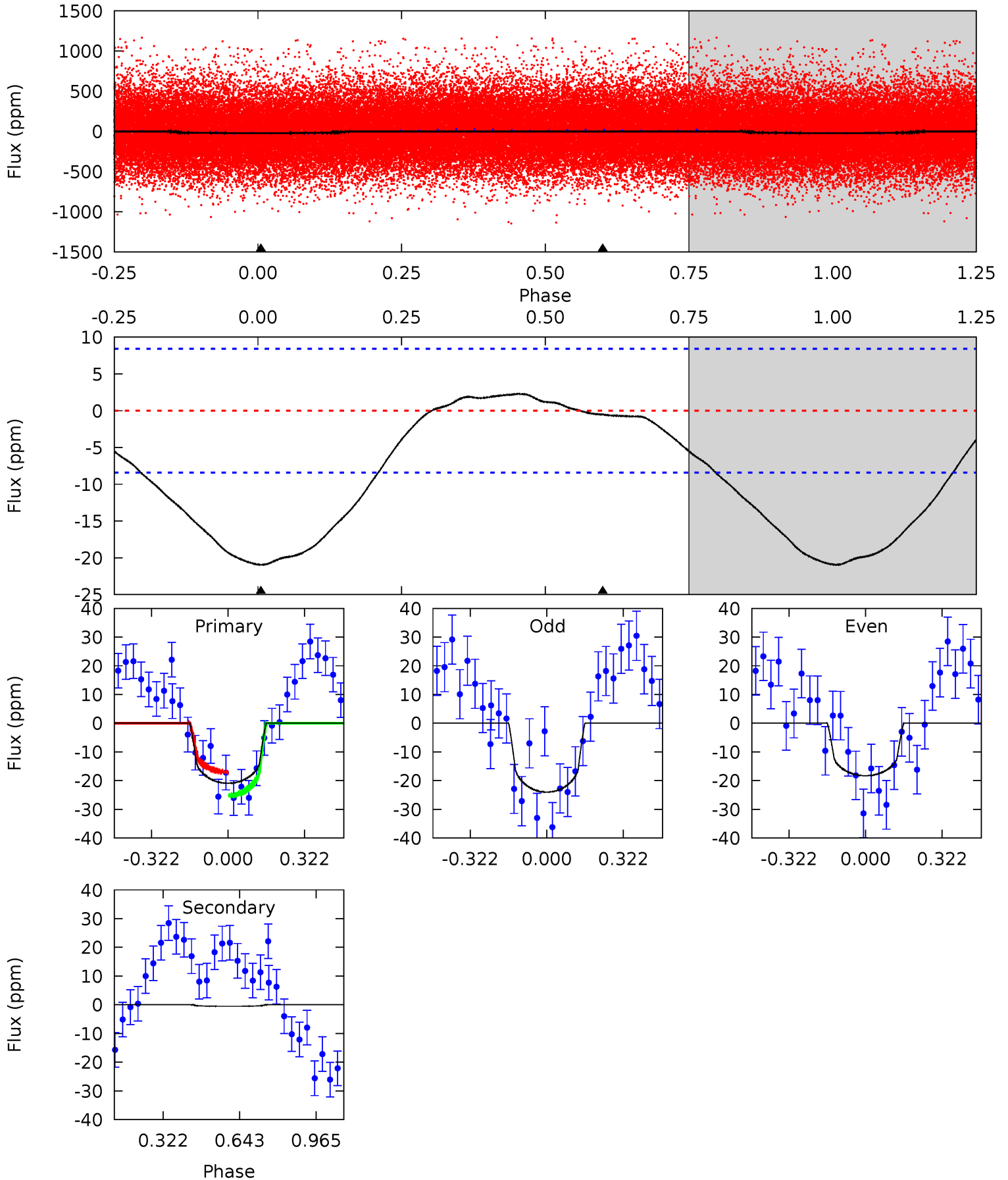
TCE 006527579-01 P= 0.715056 Days $T_0=131.610215$ (BKJD)



DV Model-Shift Uniqueness Test

006527579-01, P = 0.715019 Days, E = 130.927077 Days

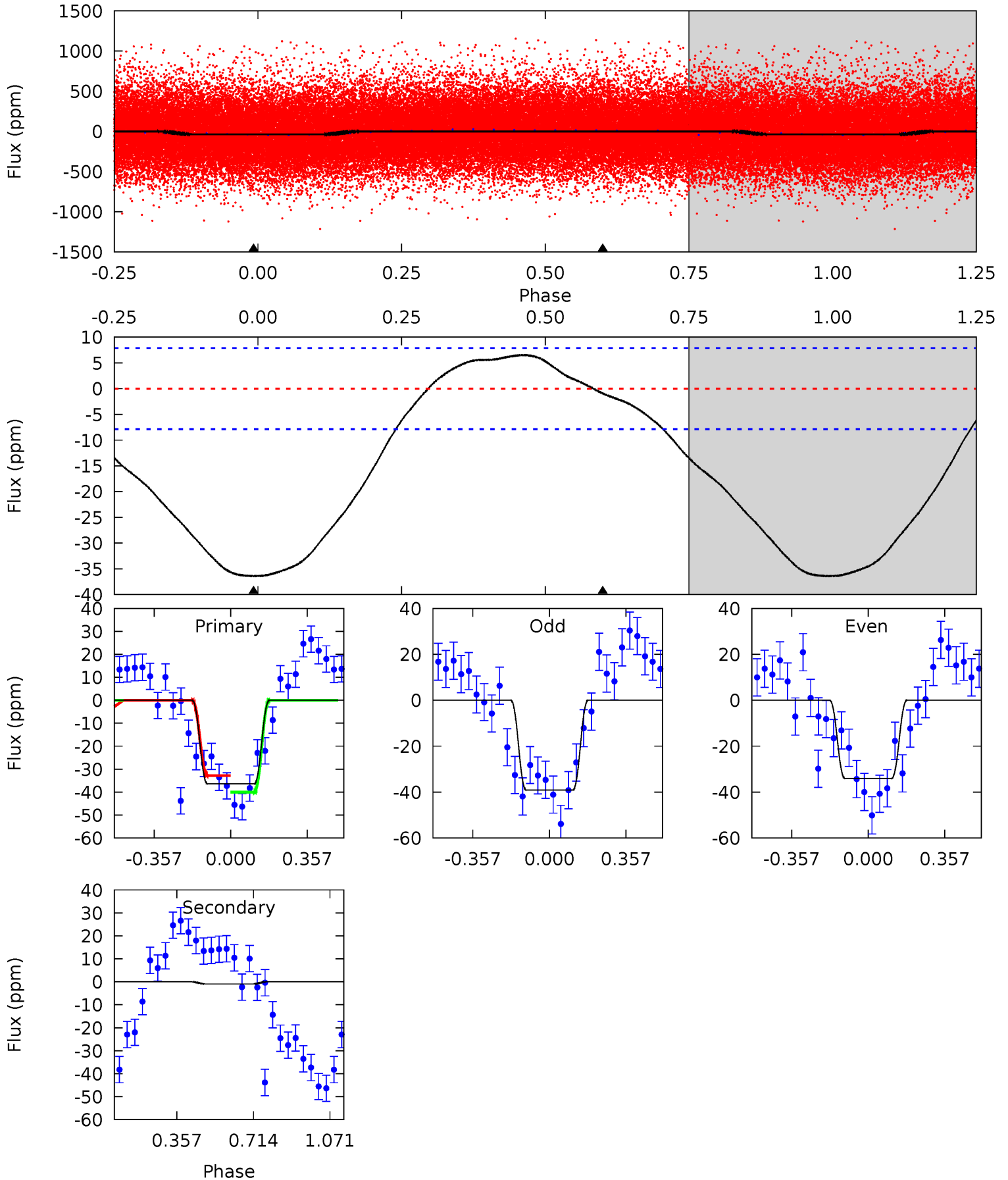
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.7	0.27	0	0	4.31	0.99	0.78	10.7	10.7	0.27	0.27	1.48	0.91	0.10	2.09



Alt Model-Shift Uniqueness Test

006527579-01, $P = 0.715056$ Days, $E = 130.895159$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.8	0.50	0	0	4.29	0.92	1.79	19.8	19.8	0.50	0.50	1.38	0.93	0.15	1.95



Stellar Parameters For KIC 006527579

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6153^{+171}_{-214}	$4.471^{+0.050}_{-0.200}$	$-0.140^{+0.250}_{-0.300}$	$0.993^{+0.286}_{-0.102}$	$1.065^{+0.139}_{-0.139}$	$1.531^{+0.404}_{-0.769}$
	+3%/-3%	+1%/-4%	+179%/-214%	+29%/-10%	+13%/-13%	+26%/-50%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006527579-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1 ± 2	$0.71^{+0.53}_{-0.47}$	3058^{+211}_{-149}	-2933^{+6926}_{-707}	$0.111^{+1.565}_{-0.509}$
Alt.	-1 ± 2	$0.80^{+0.53}_{-0.44}$	3048^{+221}_{-150}	-2850^{+6521}_{-618}	$0.143^{+1.010}_{-0.318}$

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

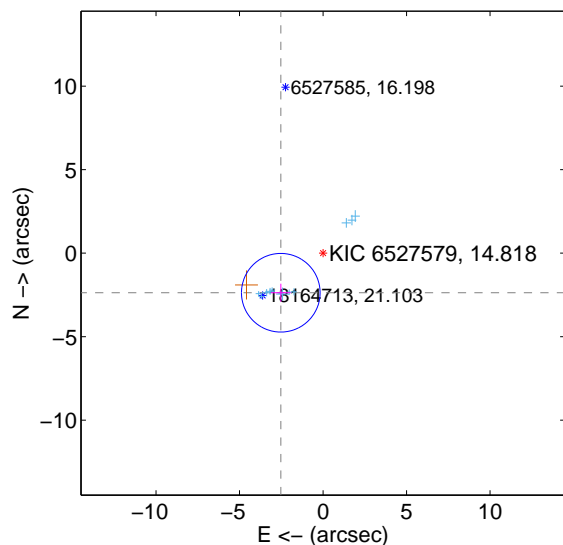
Supplemental centroid analysis for 006527579-01. Kepler magnitude: 14.82. Transit SNR 9.94

There are 12 quarters with good PRF difference image offsets

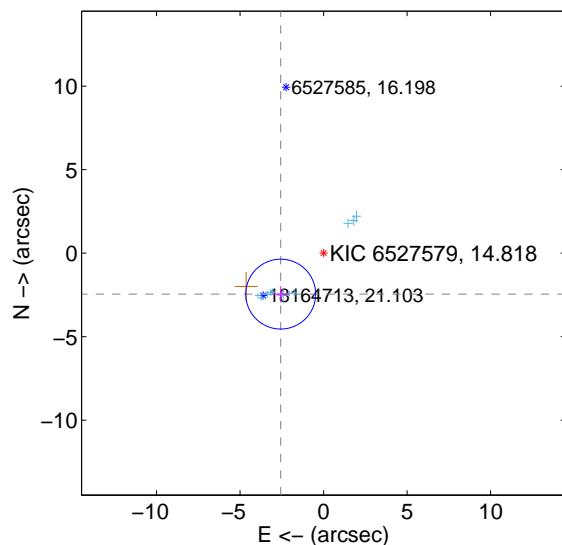
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.465 ± 0.784	4.42	2.529 ± 0.593	-2.369 ± 0.542
PRF-fit source offset from KIC position	3.549 ± 0.697	5.09	2.567 ± 0.529	-2.451 ± 0.479
photometric centroid source offset	7.91 ± 1.39	5.71	6.30 ± 1.37	-4.78 ± 1.41

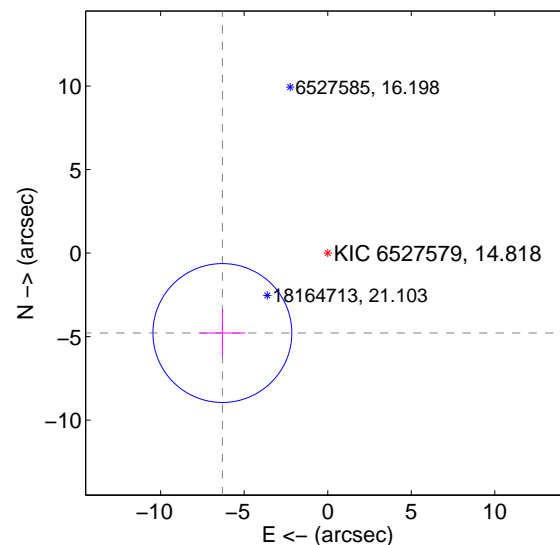
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

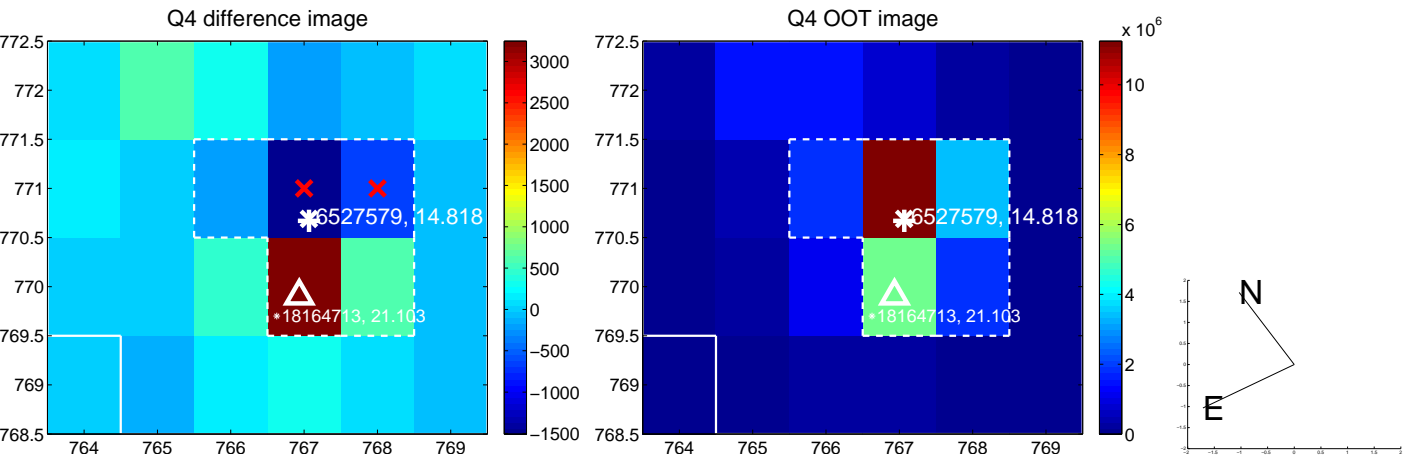
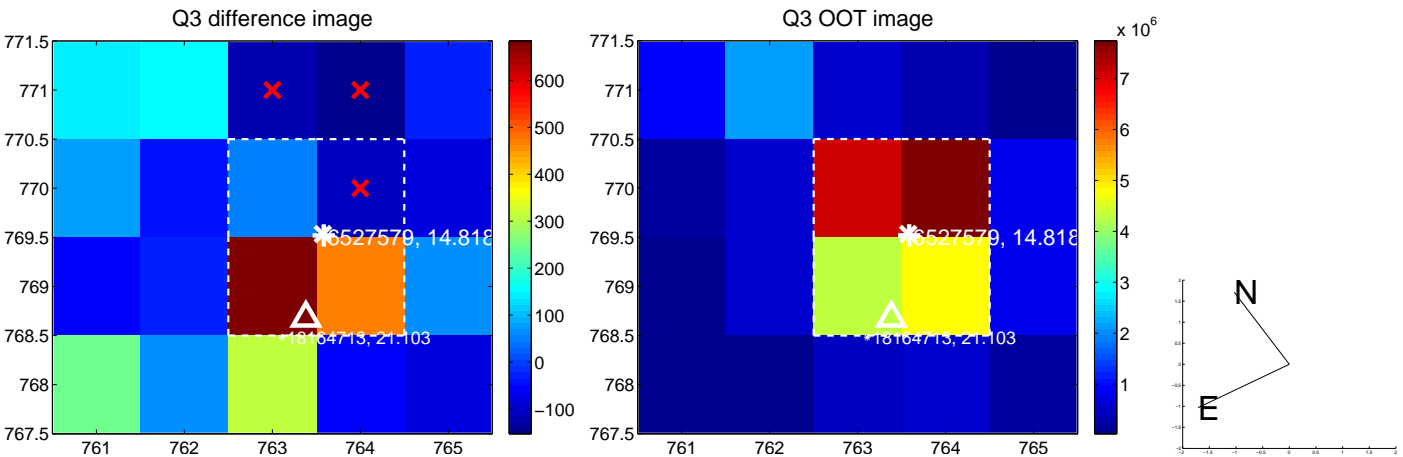
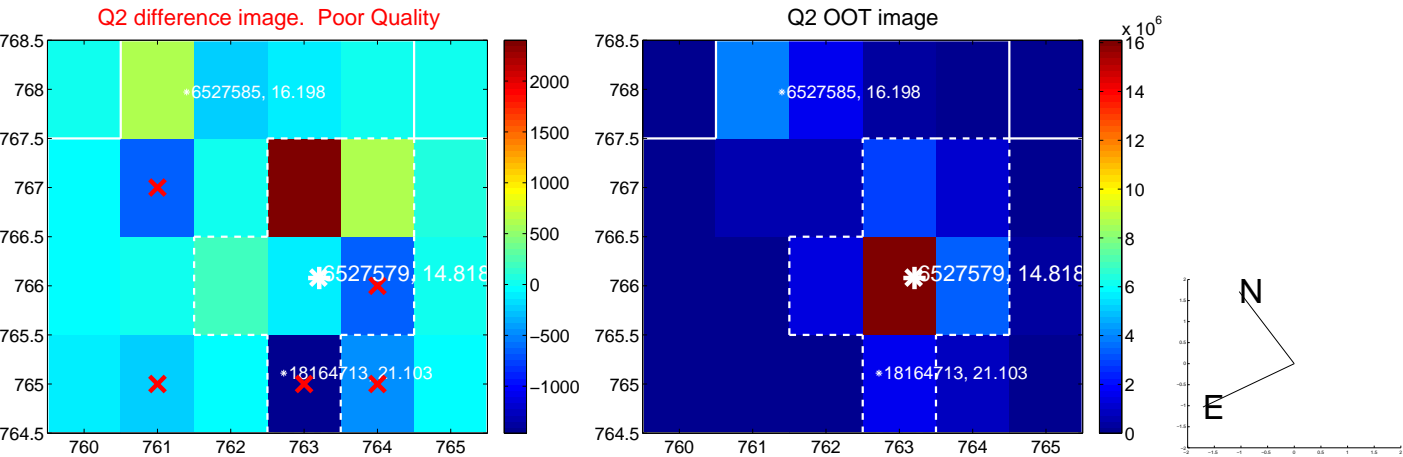
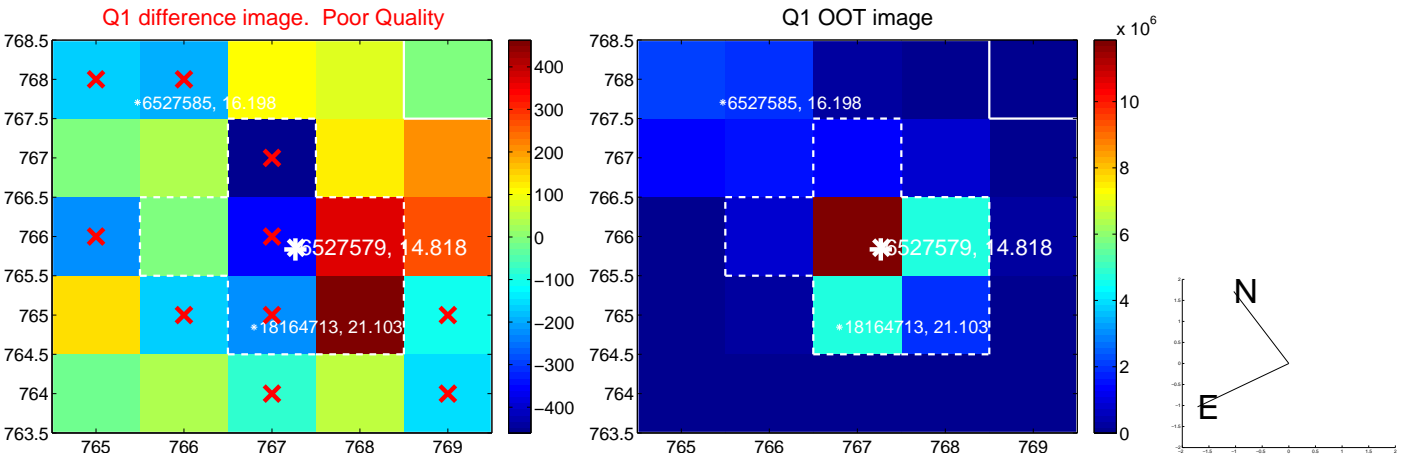


offset from photometric centroids

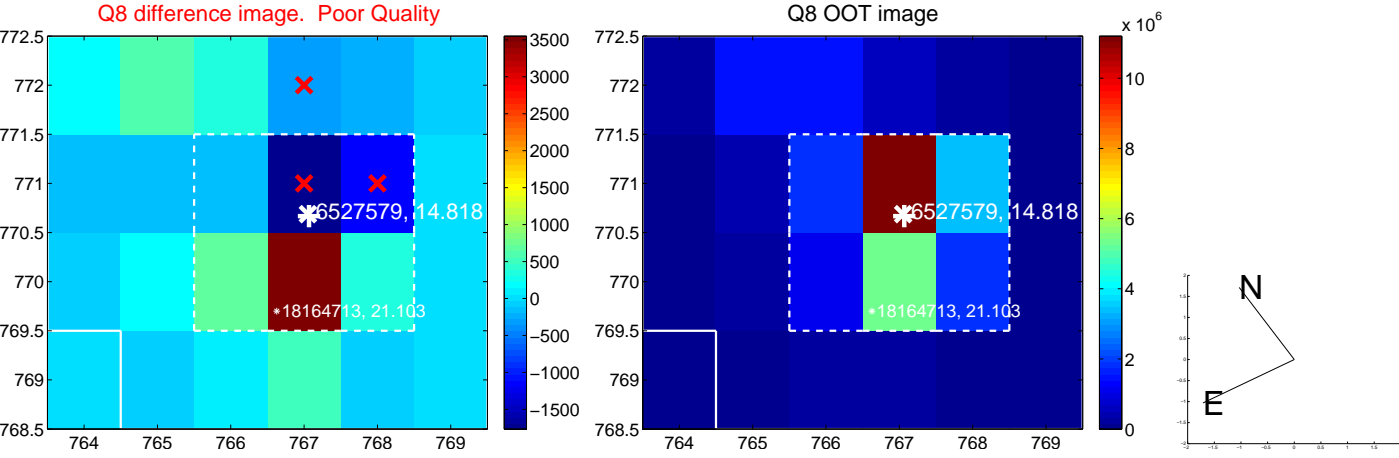
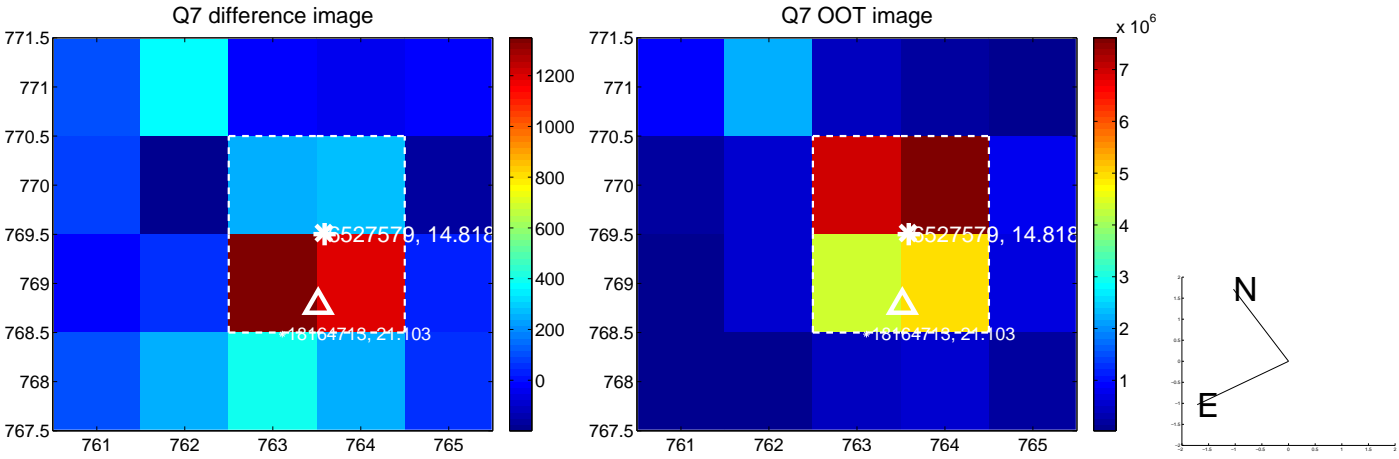
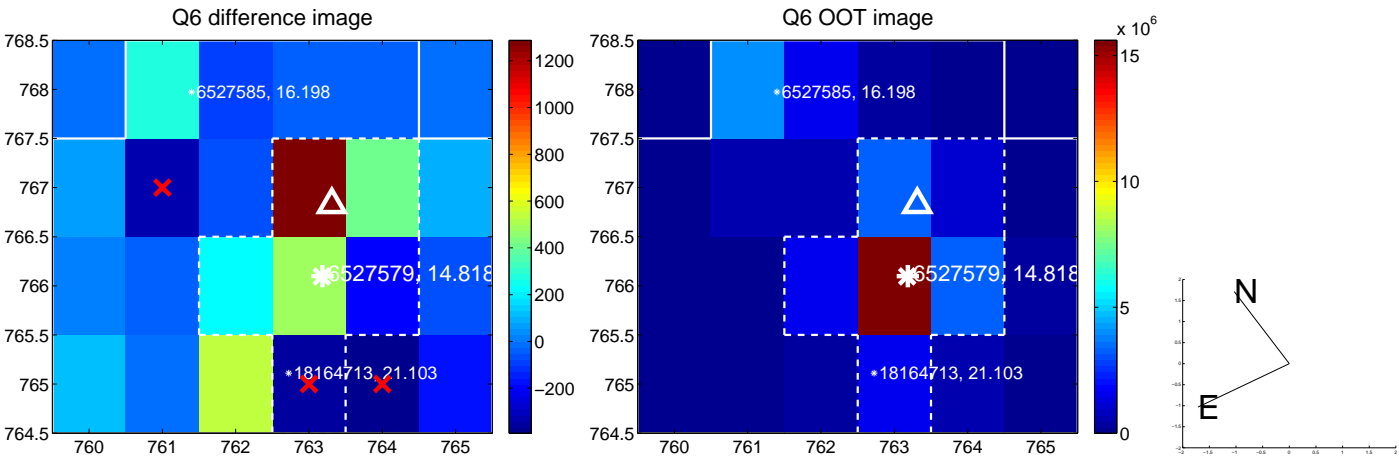
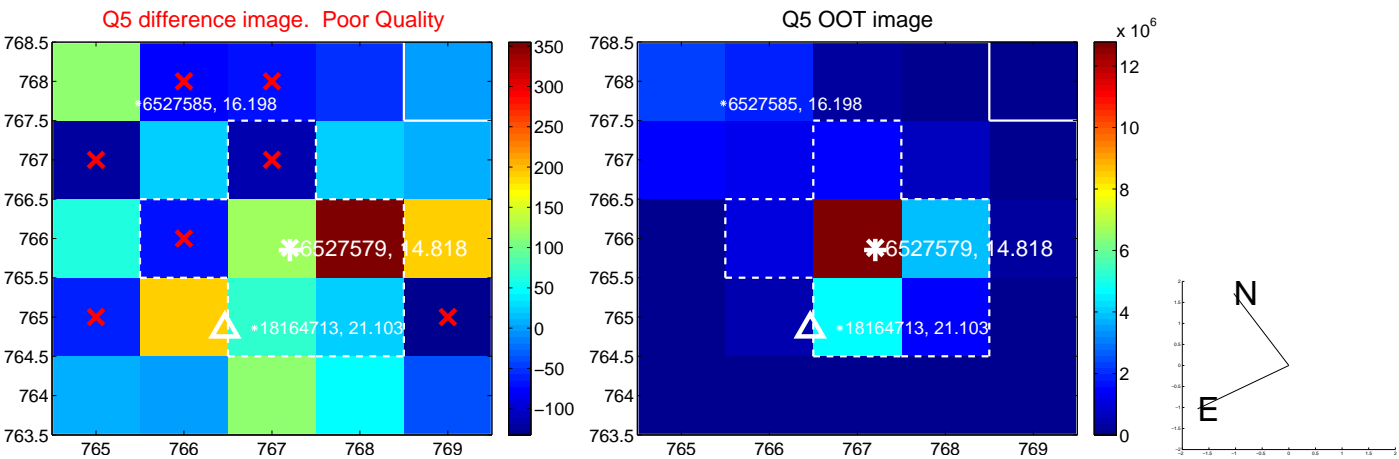


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

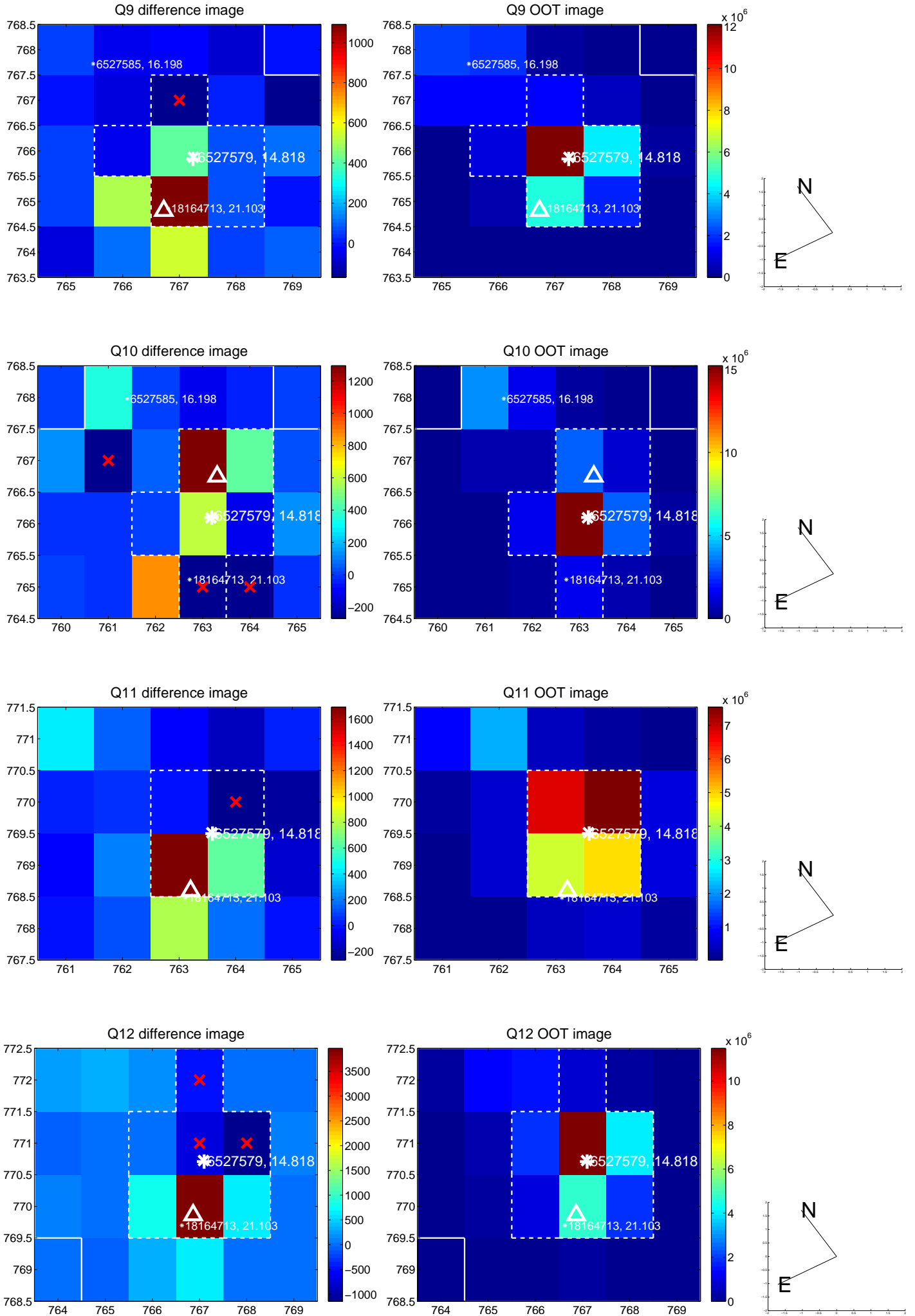
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



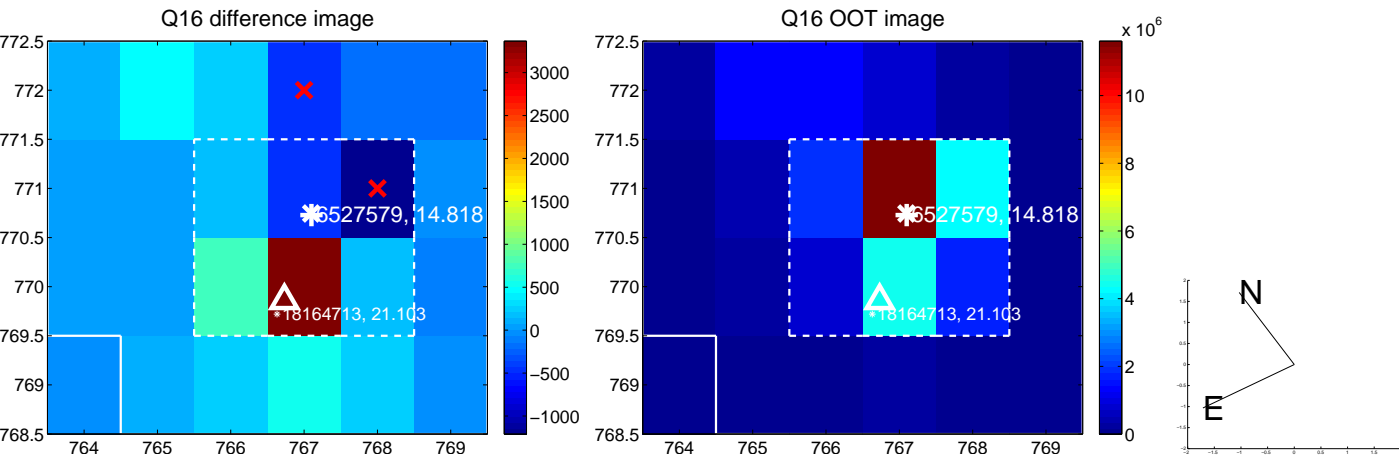
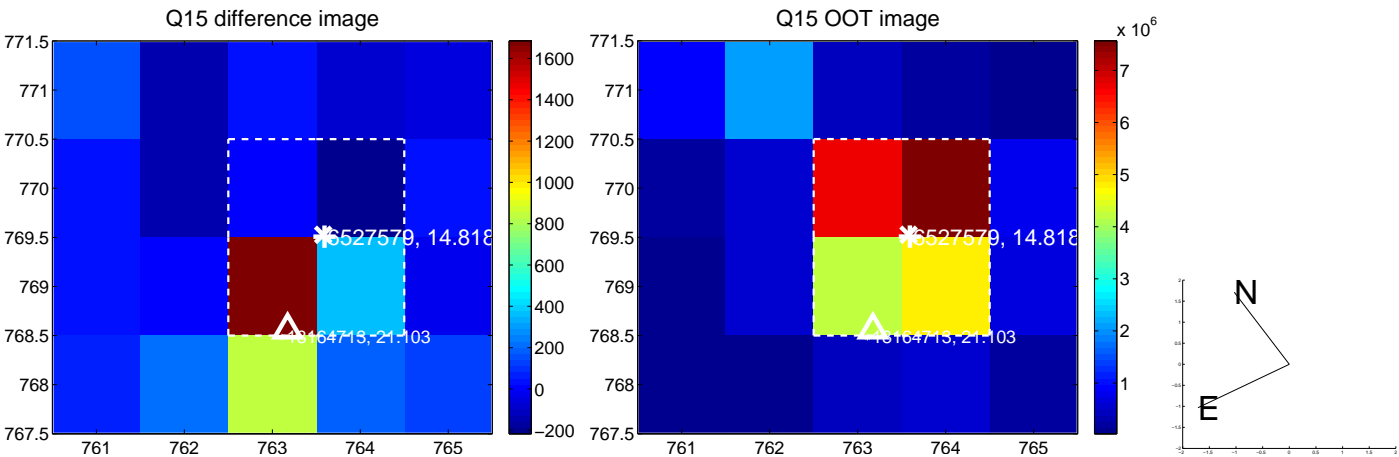
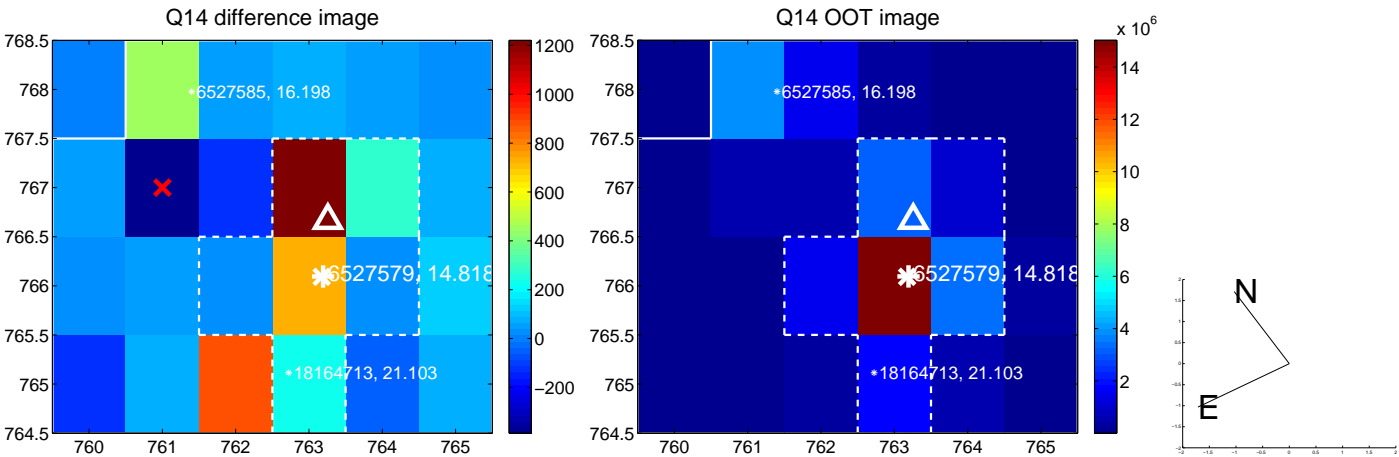
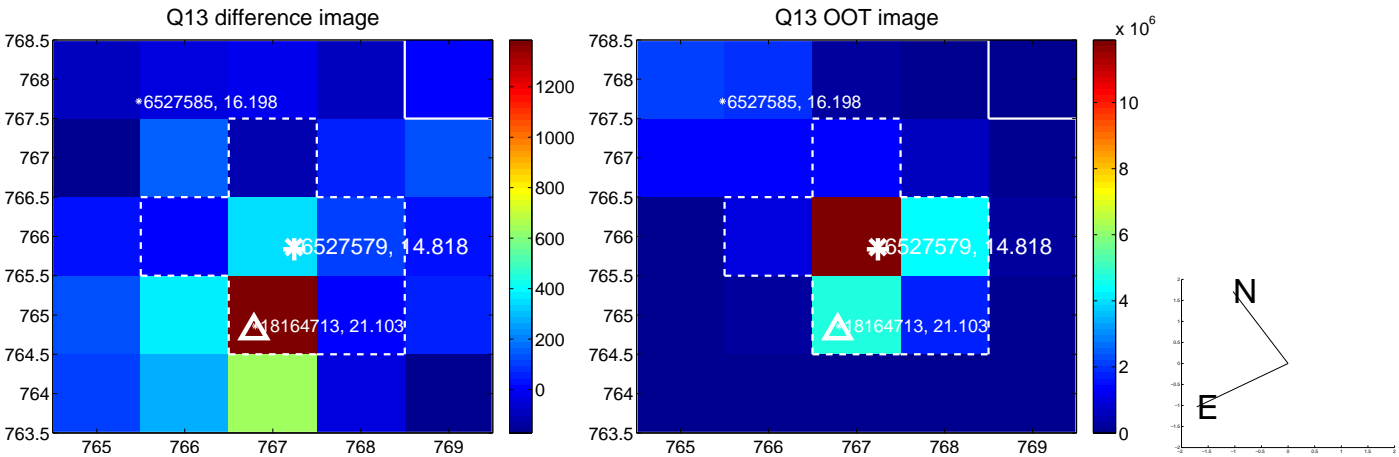
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



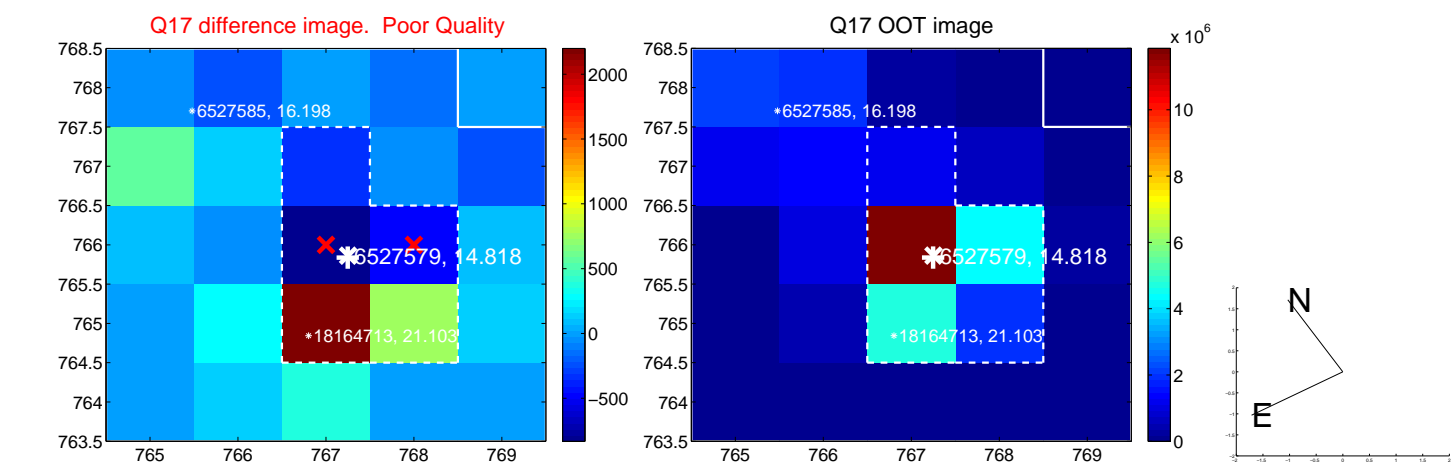
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



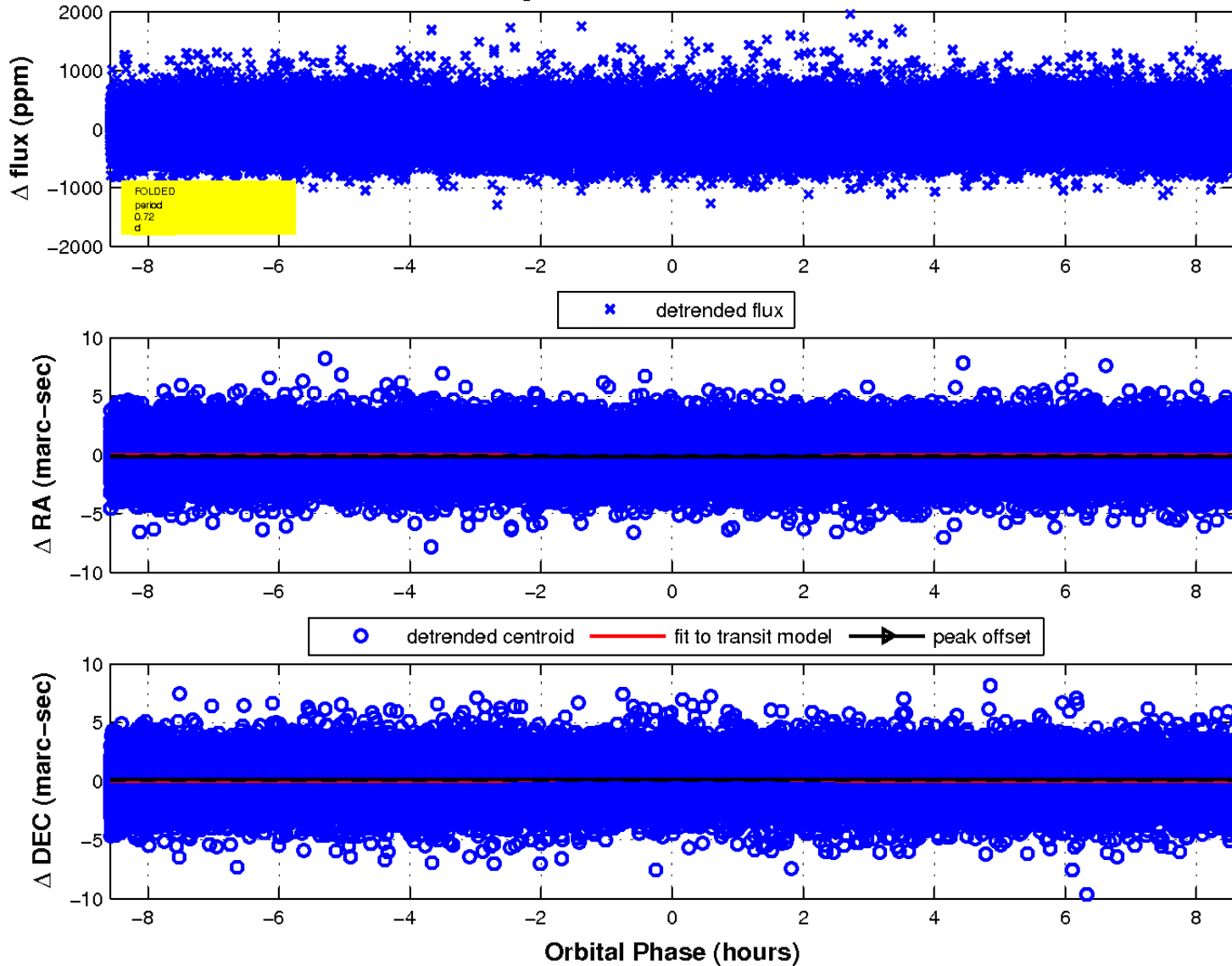
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

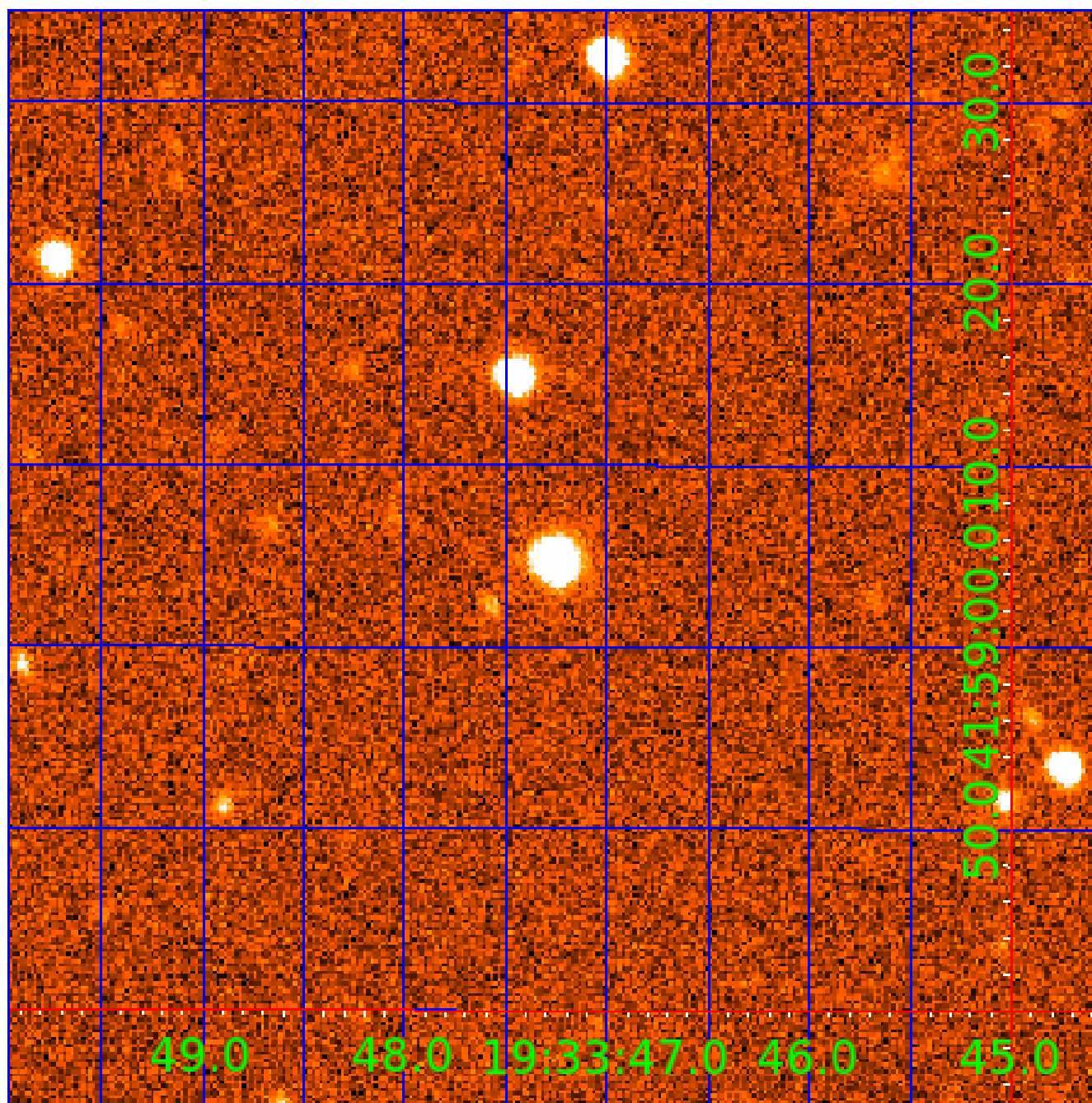


fluxWeightedCentroids, Planet 1 of 4



UKIRT Image

Declination



KIC 006527579

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})
006527579-01	OBS	No	0.715019	131.642096	24.5	5.077	9.1	9.9	0.99	6153	0.53	4959.66
006527579-02	OBS	No	26.012231	150.972550	459.2	1.384	12.3	11.8	0.99	6153	2.28	41.14
006527579-03	OBS	No	24.752692	145.894198	478.8	1.322	10.9	10.4	0.99	6153	2.24	43.96
006527579-04	OBS	No	27.125818	132.591456	964.9	0.595	9.0	8.5	0.99	6153	3.67	38.91

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006527579-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_UNRESOLVED_OFFSET
006527579-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
006527579-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS
006527579-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

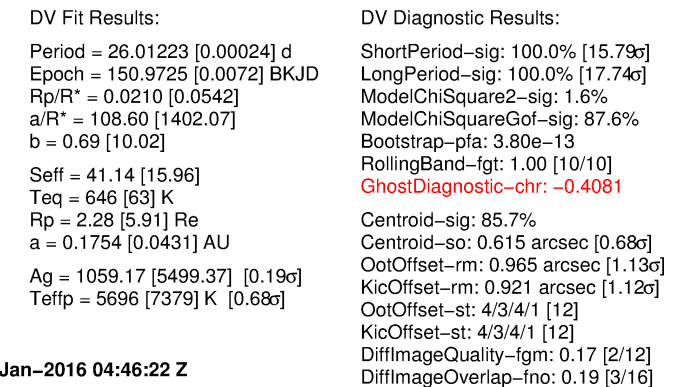
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

Ephemeris Match Information For 006527579-02

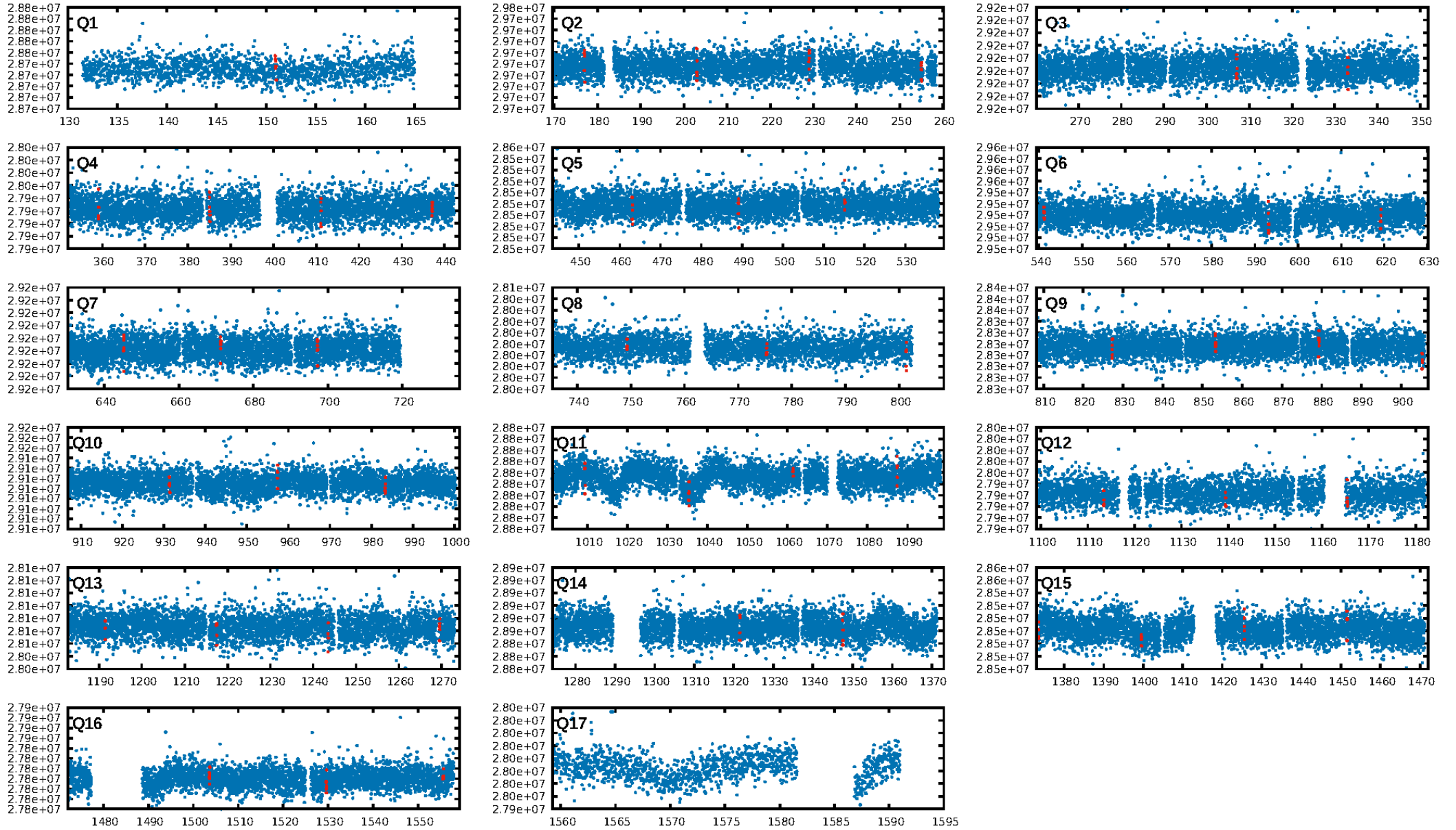
No Significant Match Found

KIC: 6527579 Candidate: 2 of 4 Period: 26.012 d

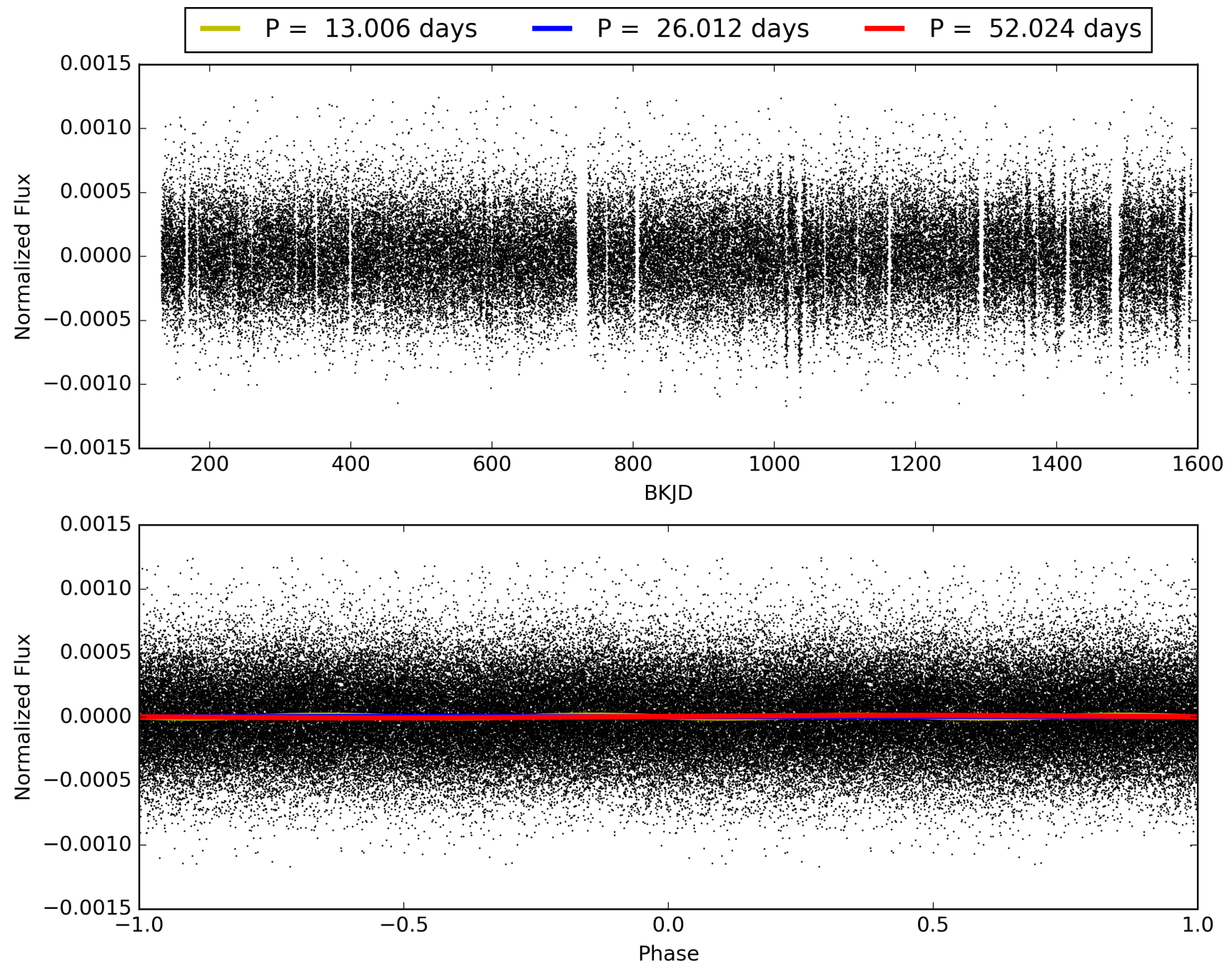


This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006527579-02, PDC Light Curves

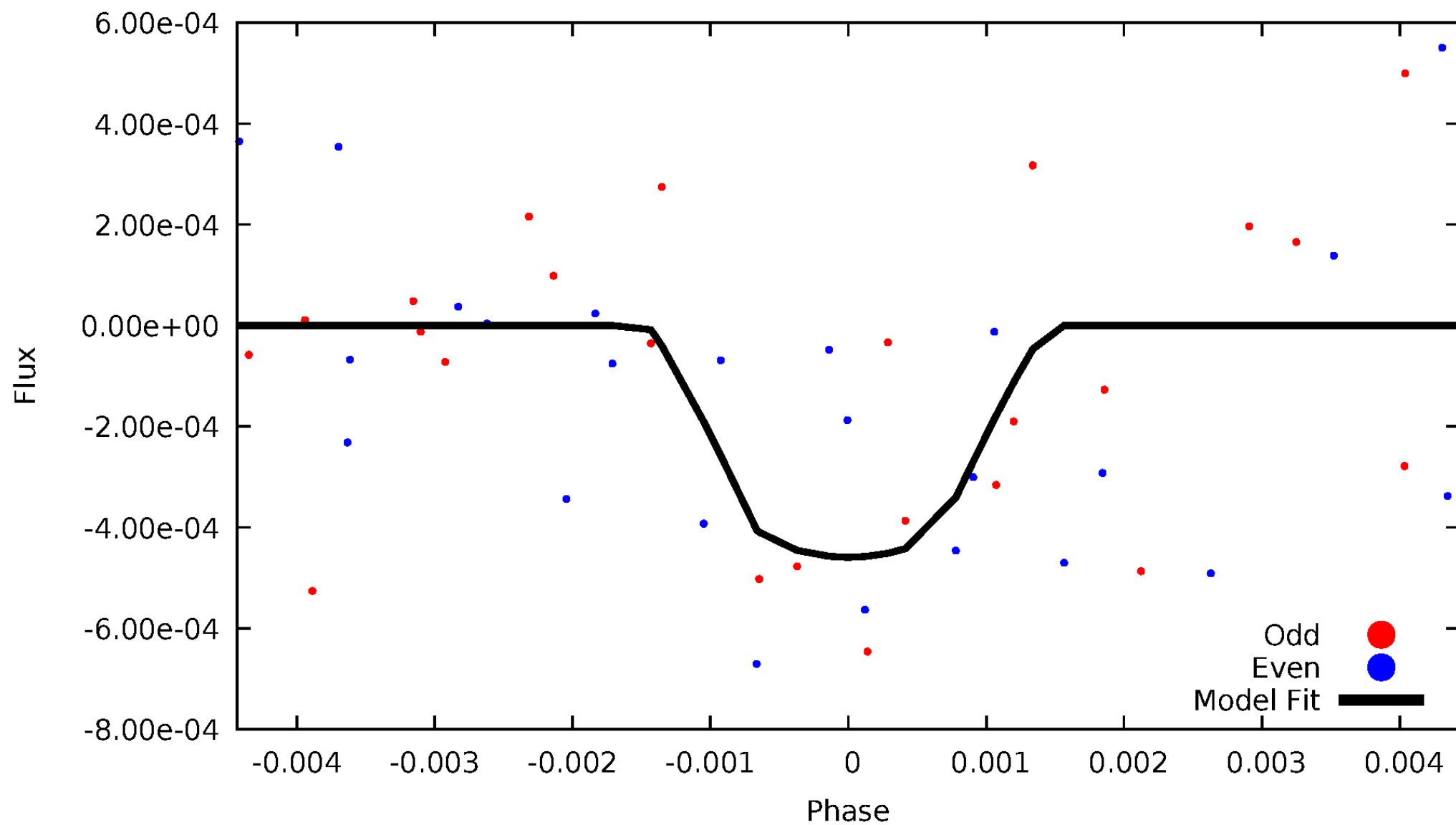


TCE 006527579-02



DV Odd/Even

TCE 006527579-02

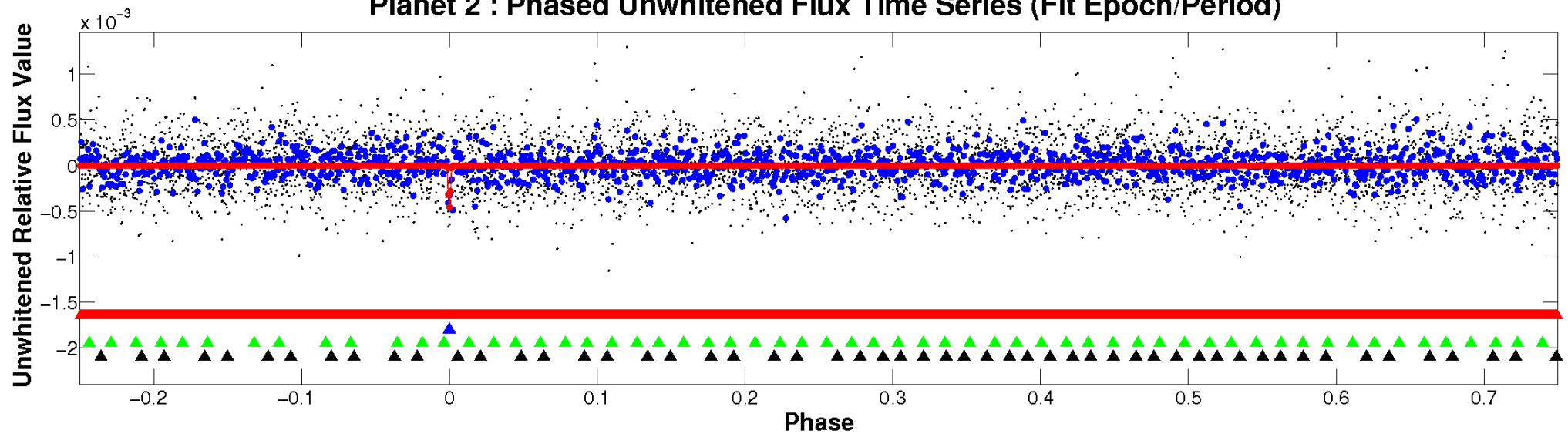


ALT Odd/Even

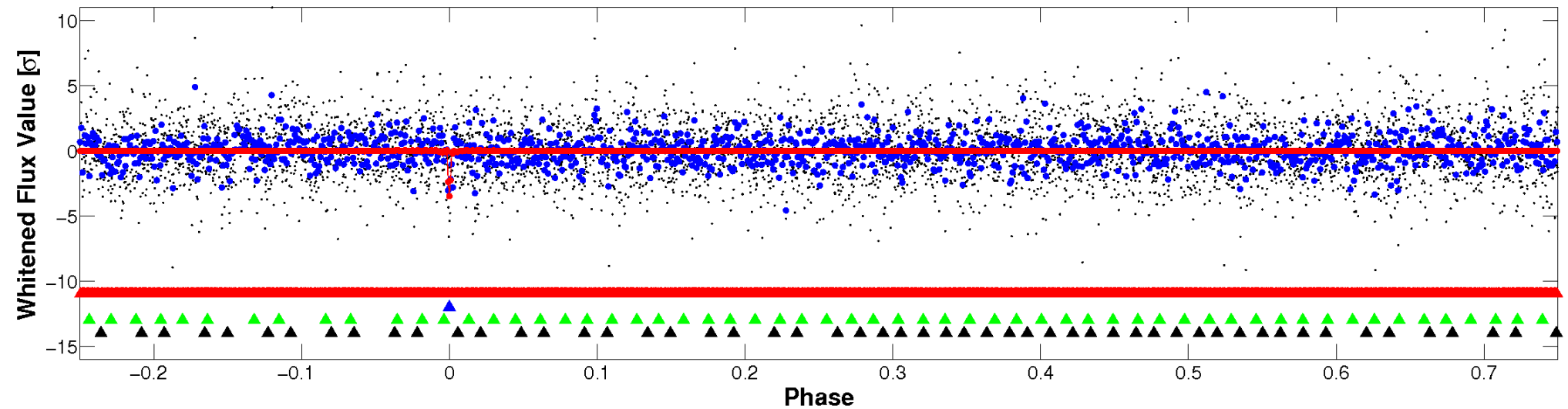
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

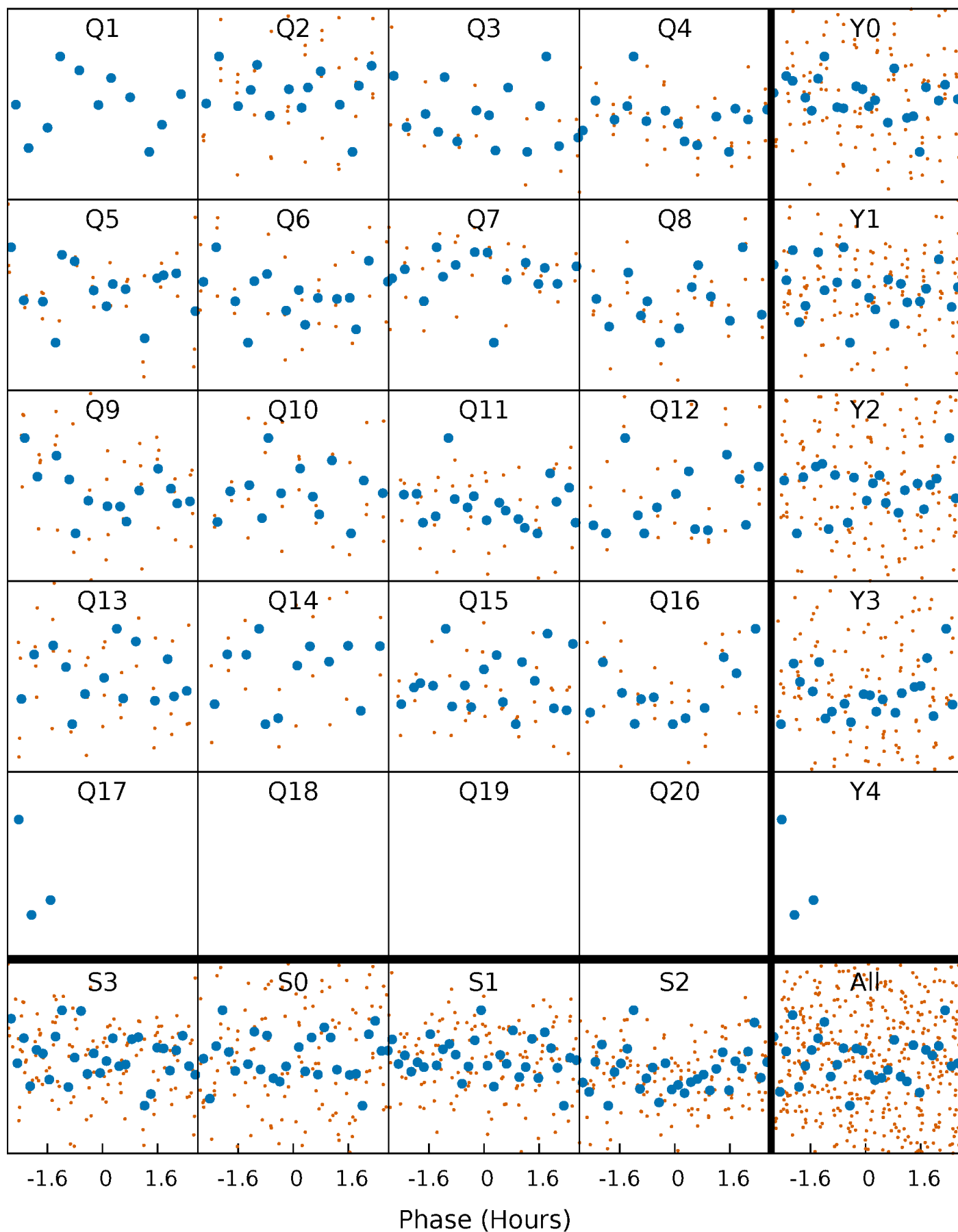


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



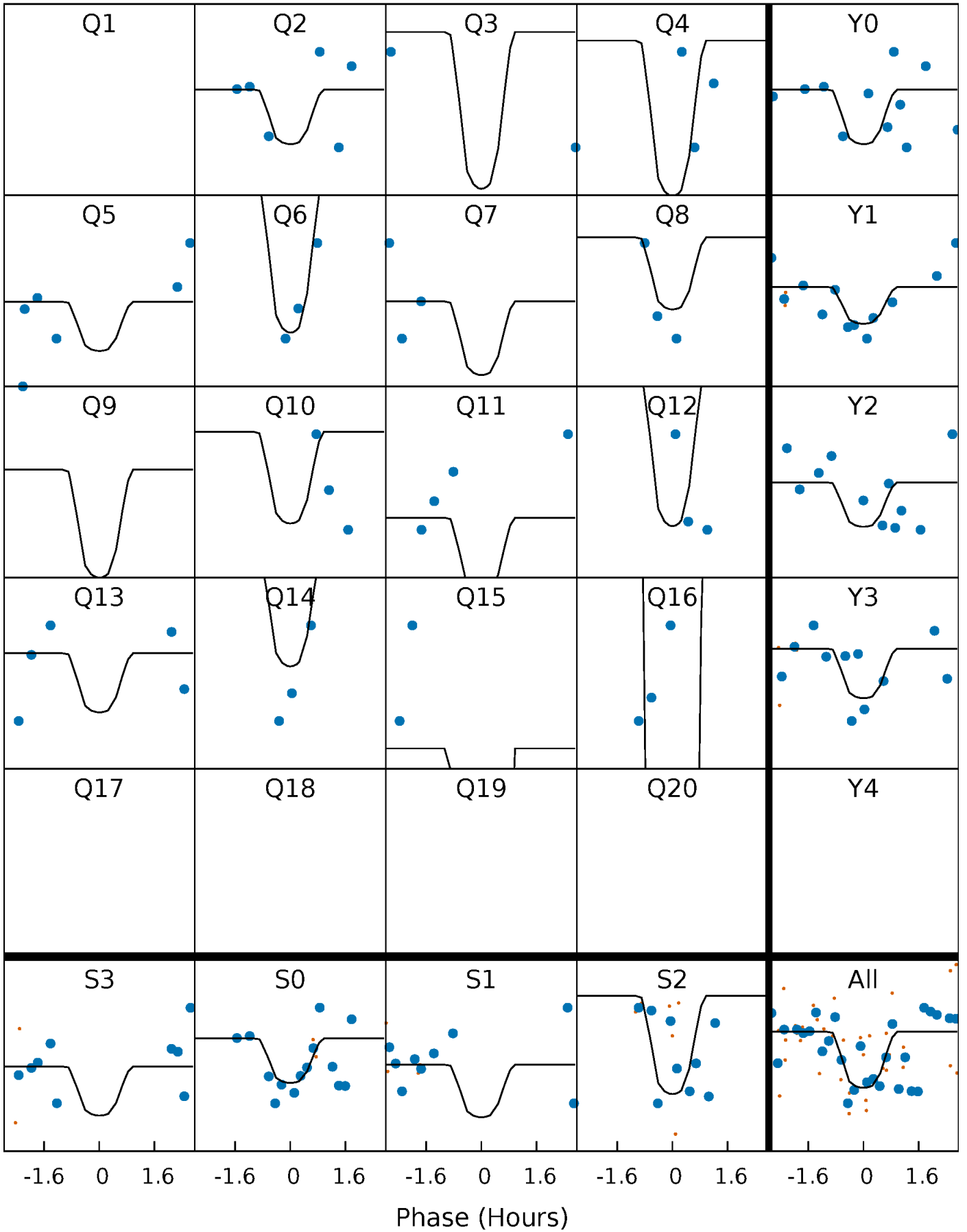
PDC Quarter-Phased Transit Curves

TCE 006527579-02 P= 26.012231 Days $T_0=150.972550$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006527579-02 P= 26.012231 Days $T_0=150.972550$ (BKJD)

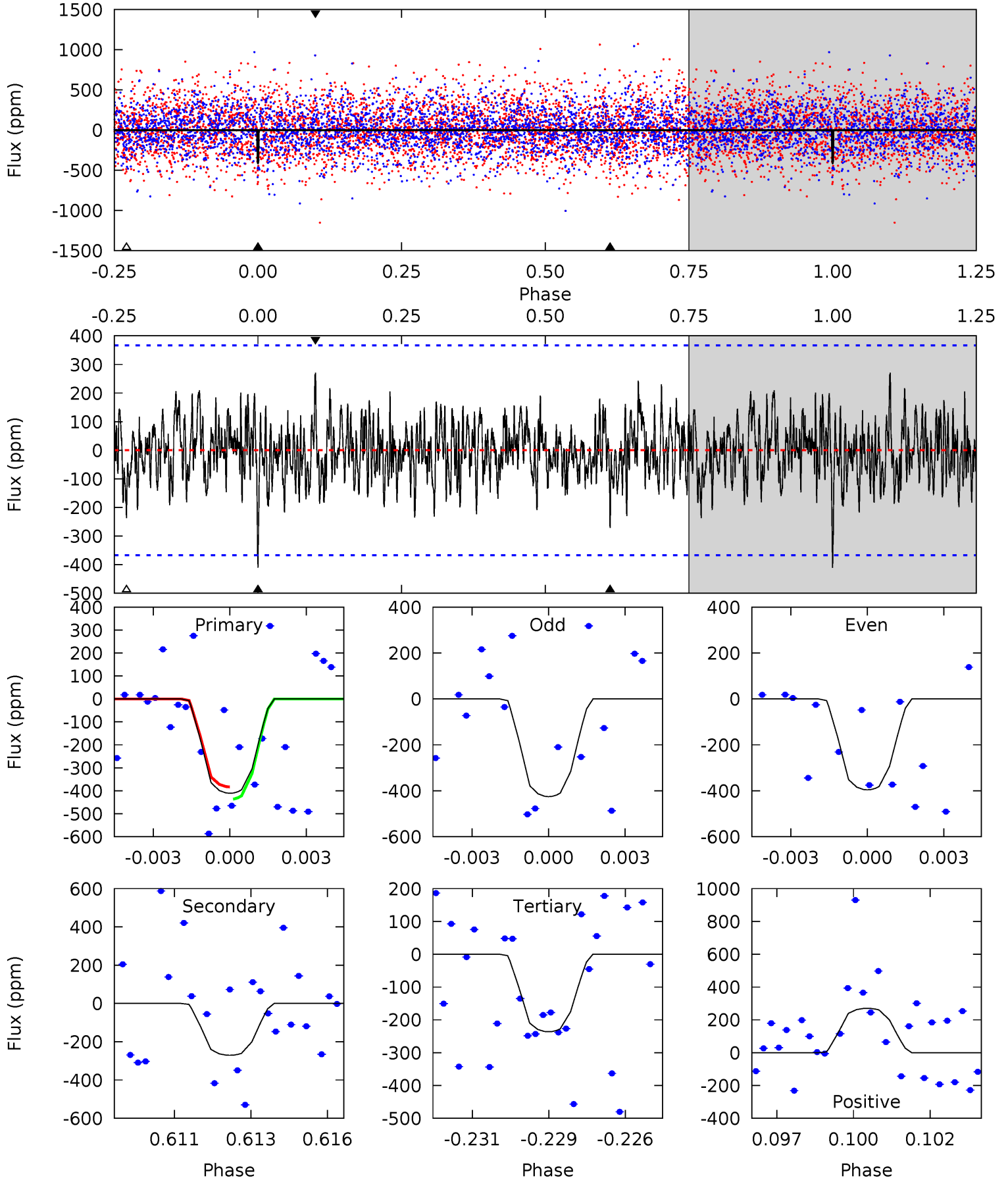


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006527579-02, P = 26.012231 Days, E = 124.960319 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.91	3.89	3.40	3.89	5.27	3.00	1.22	2.51	2.02	0.50	0.00	0.21	0.94	0.40	0.38



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006527579

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6153^{+171}_{-214}	$4.471^{+0.050}_{-0.200}$	$-0.140^{+0.250}_{-0.300}$	$0.993^{+0.286}_{-0.102}$	$1.065^{+0.139}_{-0.139}$	$1.531^{+0.404}_{-0.769}$
	+3%/-3%	+1%/-4%	+179%/-214%	+29%/-10%	+13%/-13%	+26%/-50%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006527579-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-271 ± 70	$4.98^{+5.19}_{-3.35}$	920^{+62}_{-43}	4040^{+2653}_{-831}	172^{+1501}_{-130}
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 $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

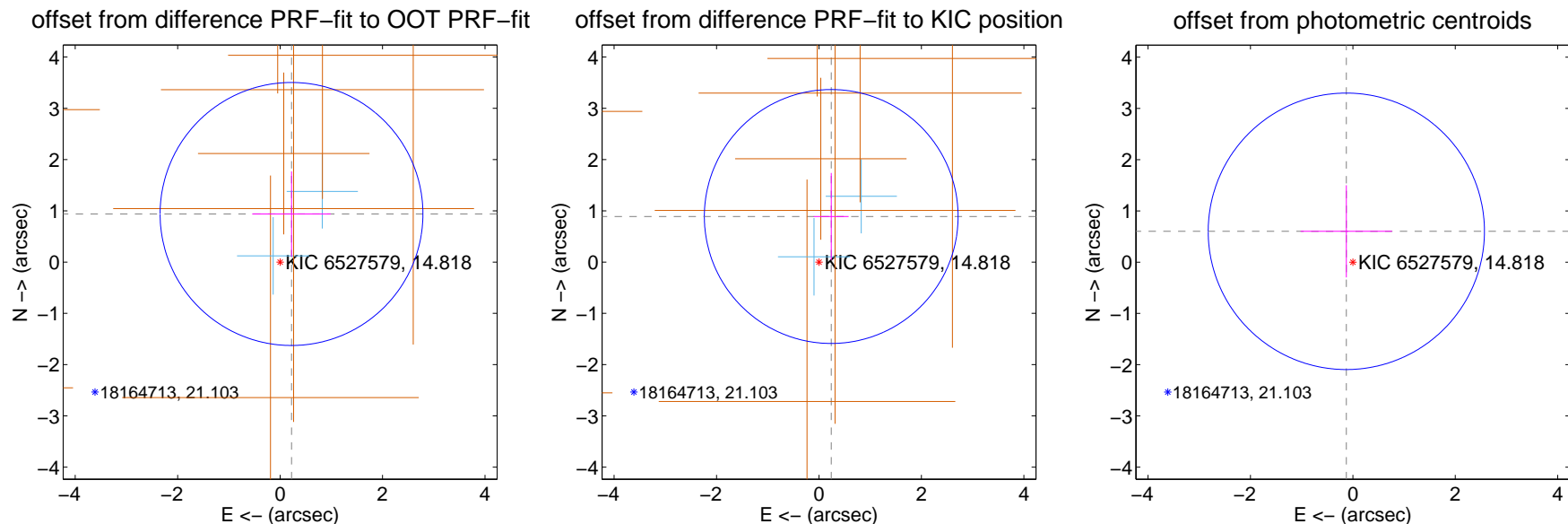
DV Centroid Data

Supplemental centroid analysis for 006527579-02. Kepler magnitude: 14.82. Transit SNR 11.82

There are 2 quarters with good PRF difference image offsets

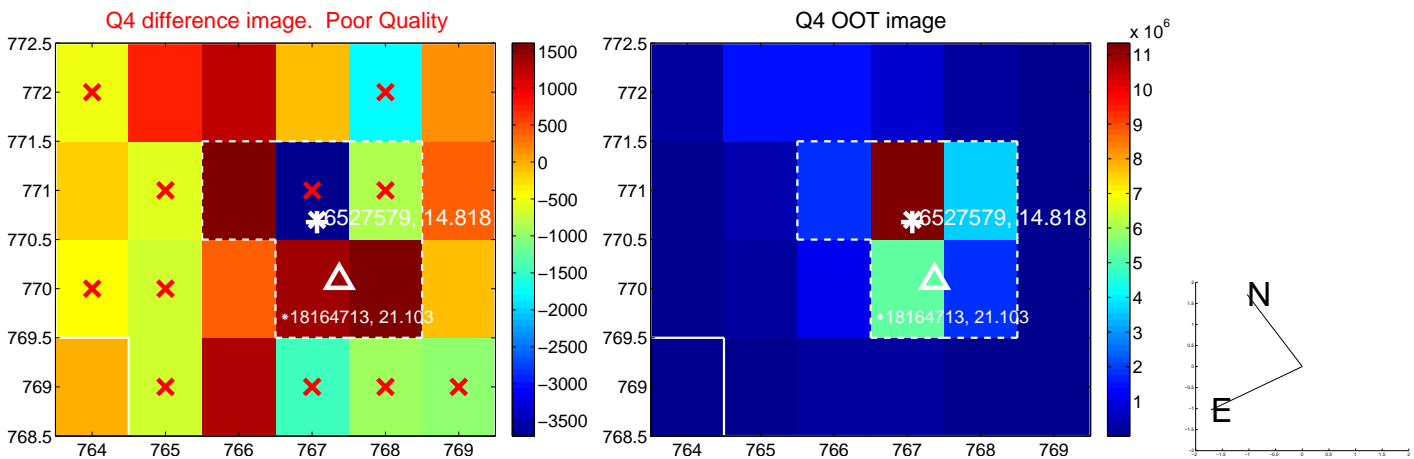
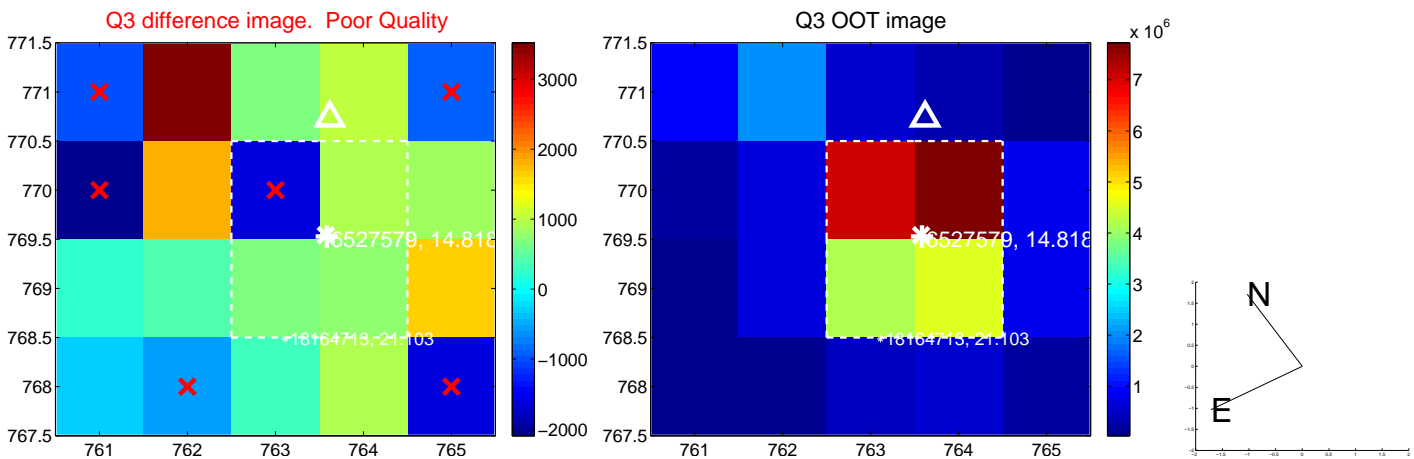
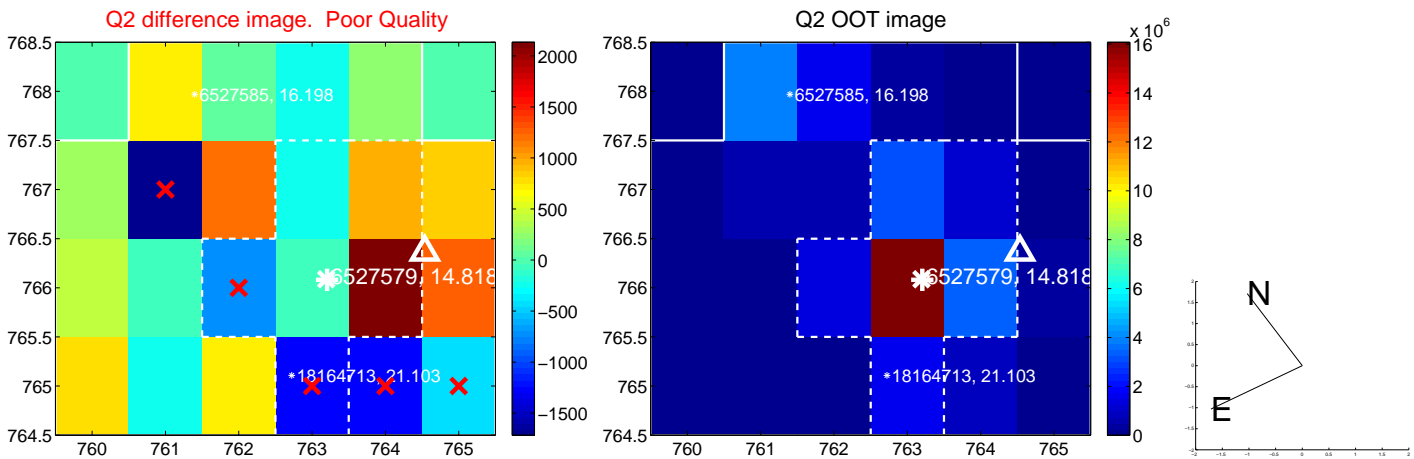
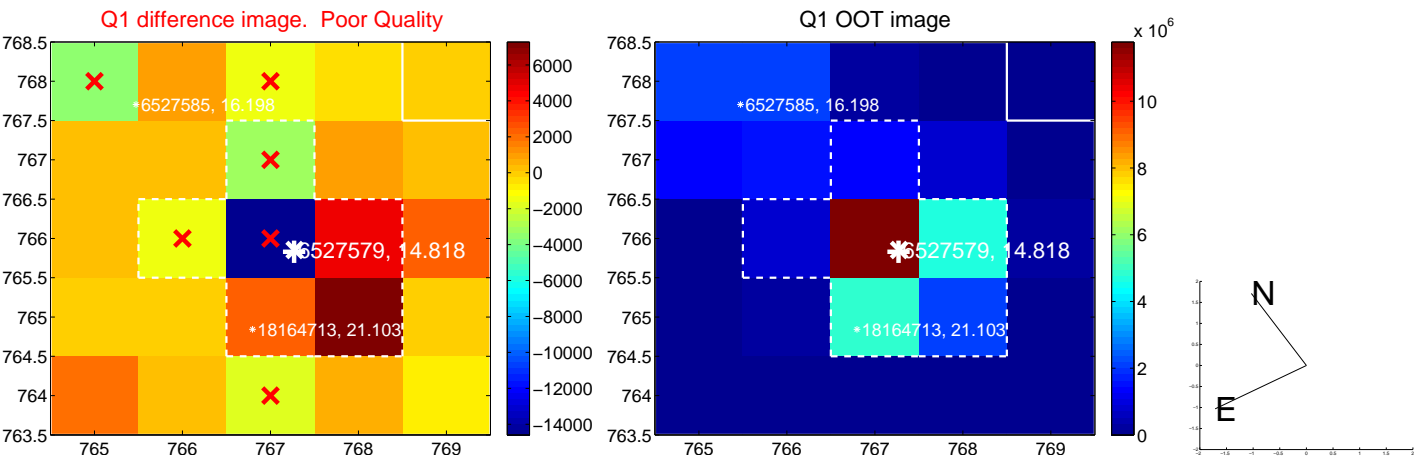
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.965 ± 0.855	1.13	-0.223 ± 0.767	0.939 ± 0.831
PRF-fit source offset from KIC position	0.921 ± 0.826	1.12	-0.239 ± 0.340	0.889 ± 0.850
photometric centroid source offset	0.62 ± 0.90	0.68	0.13 ± 0.89	0.60 ± 0.90

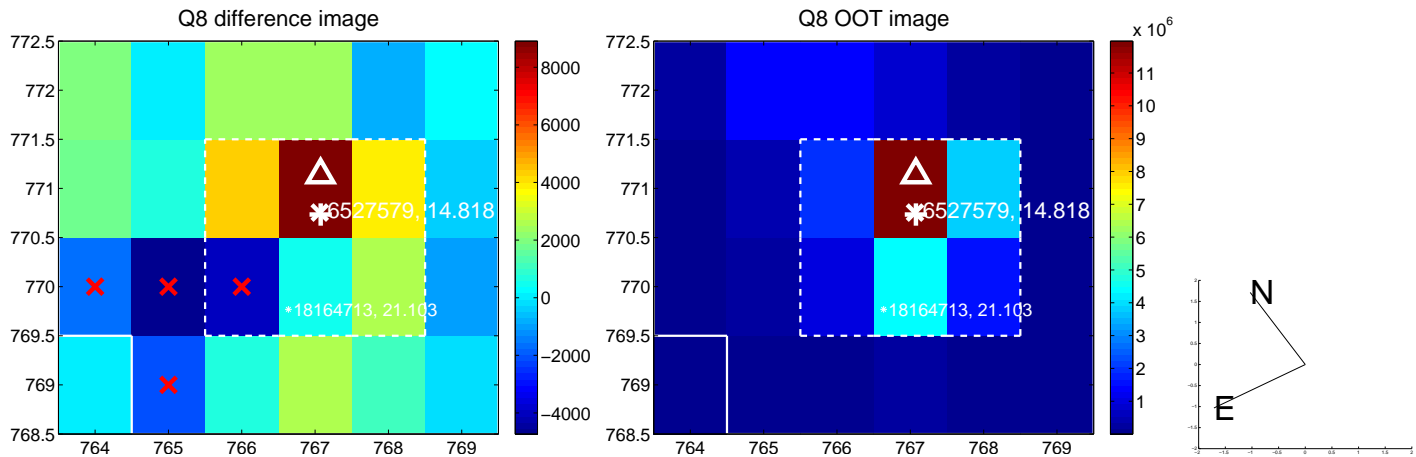
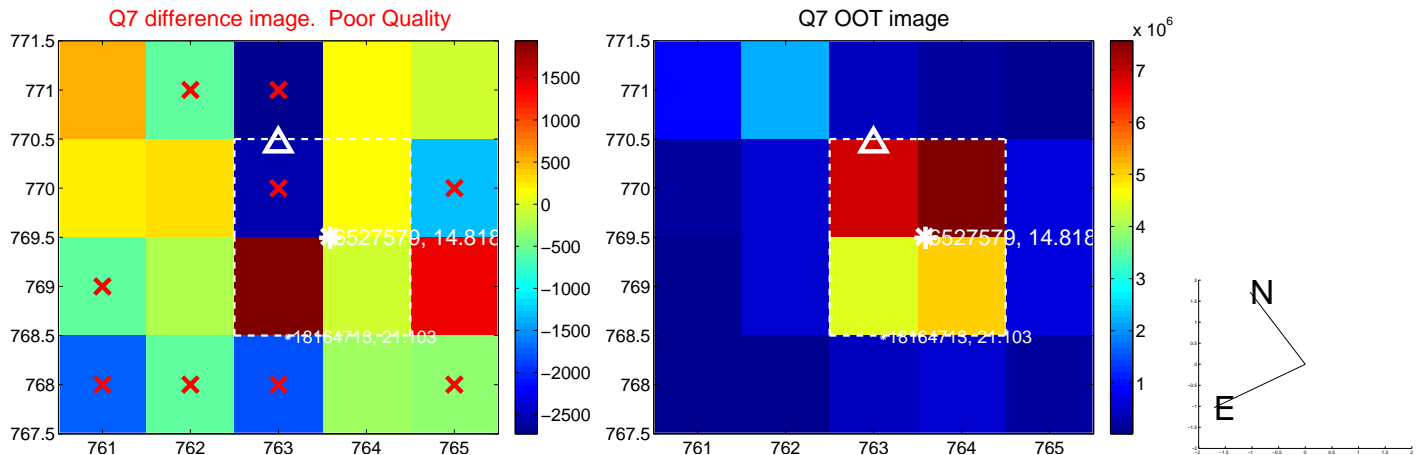
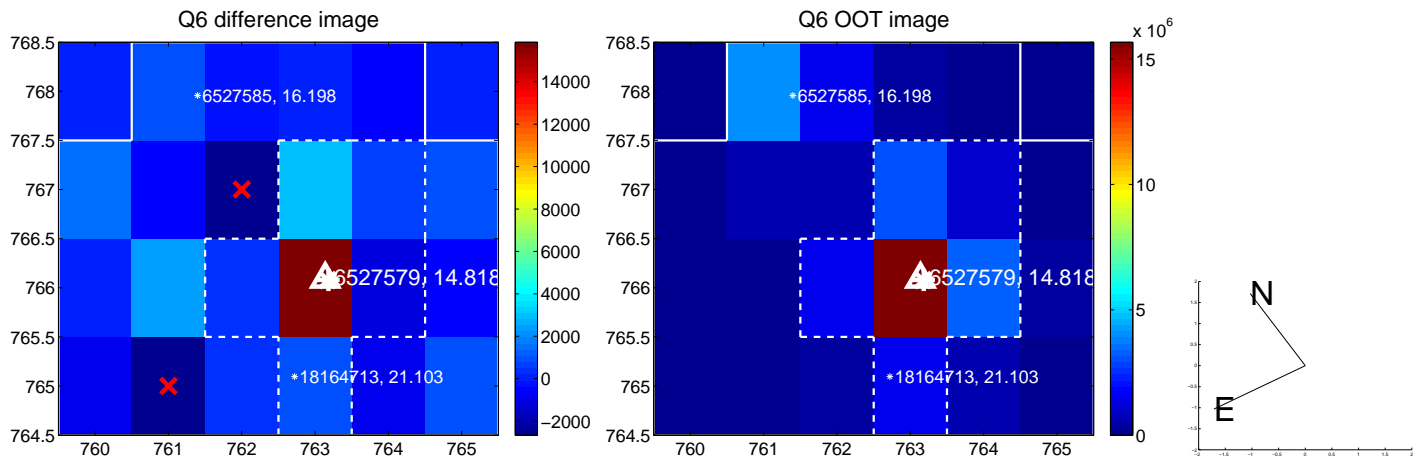
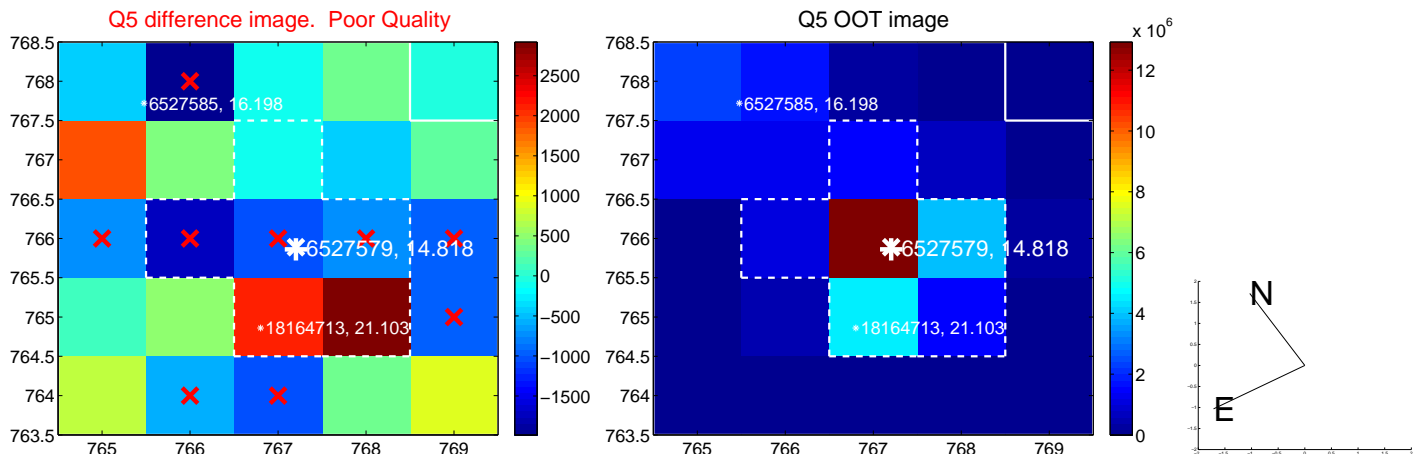


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

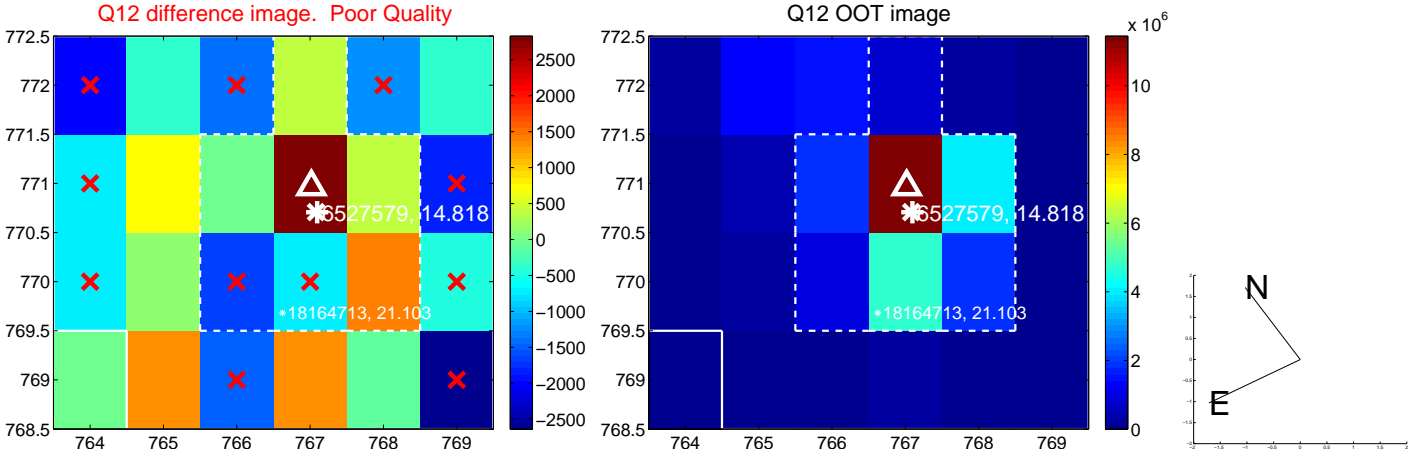
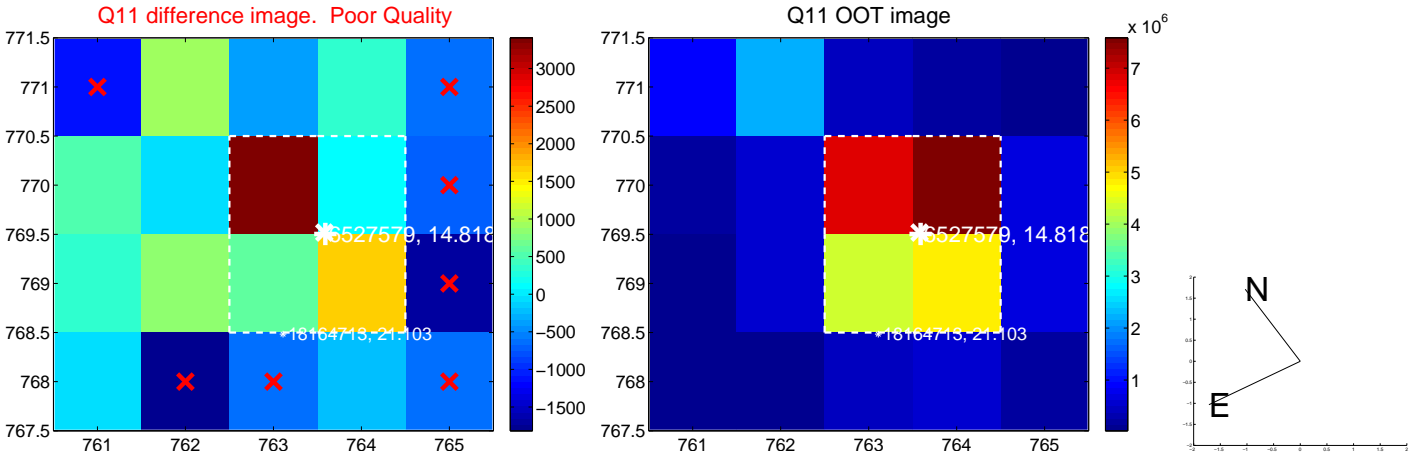
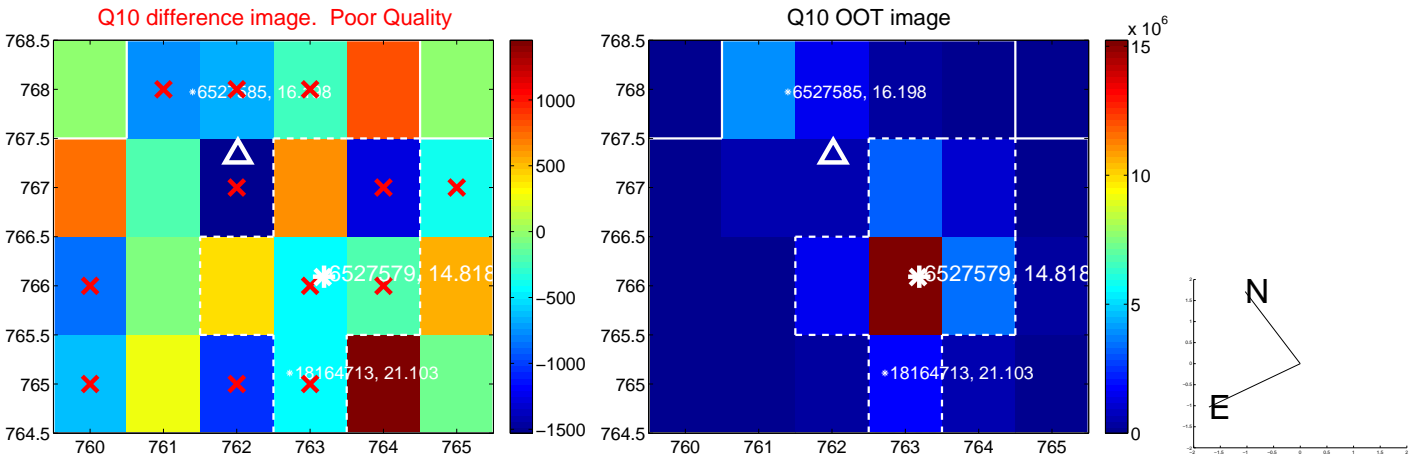
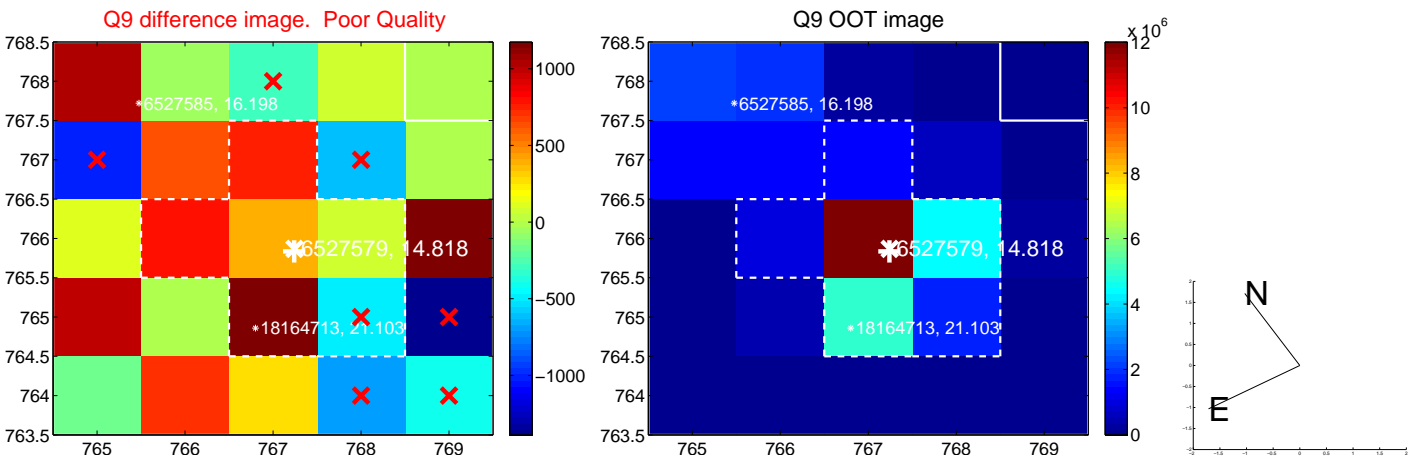
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



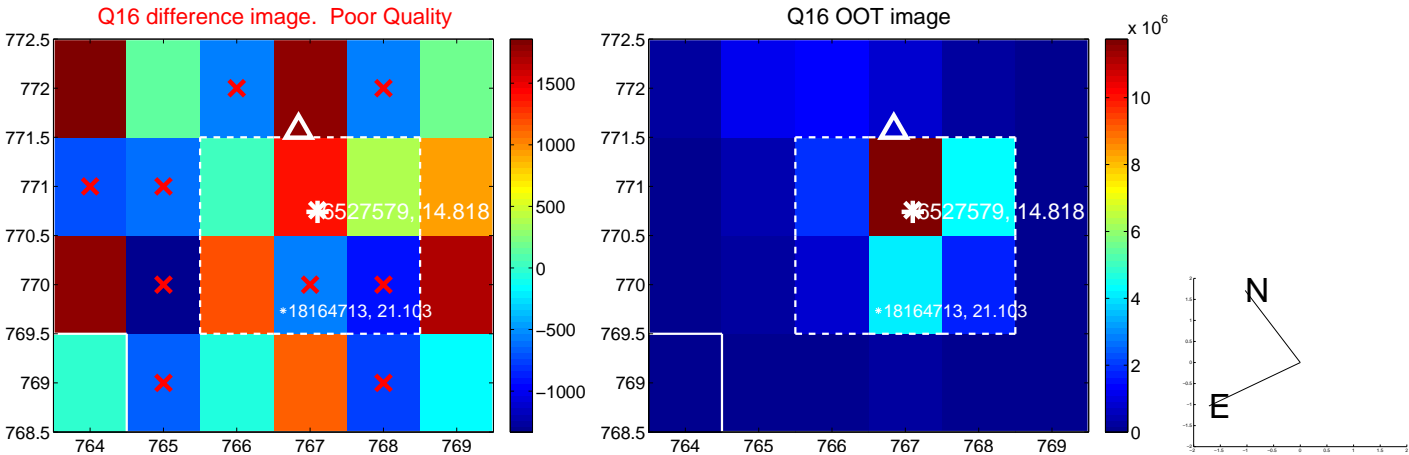
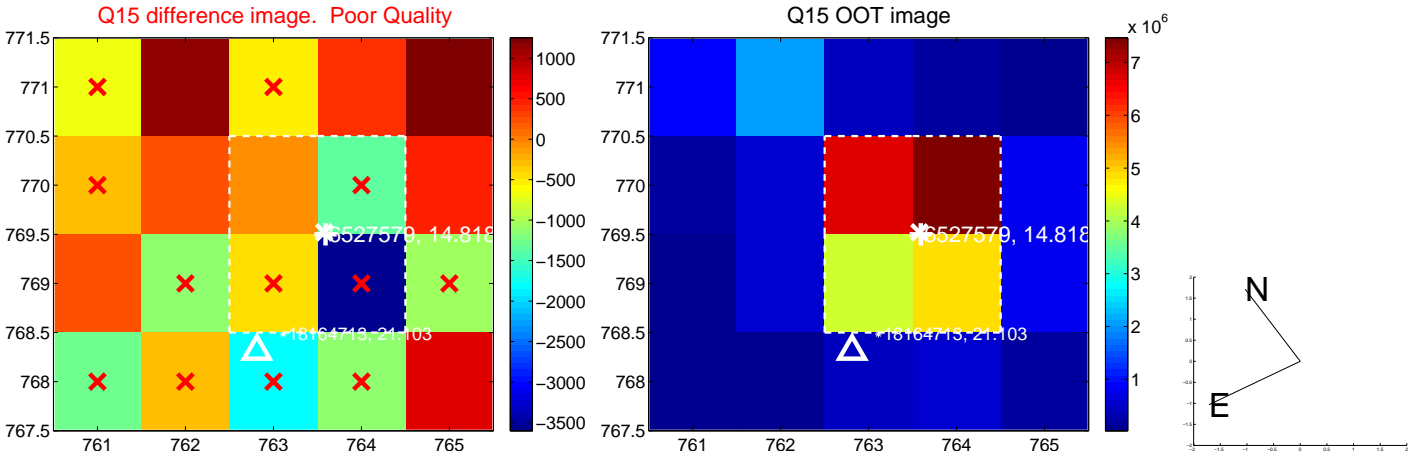
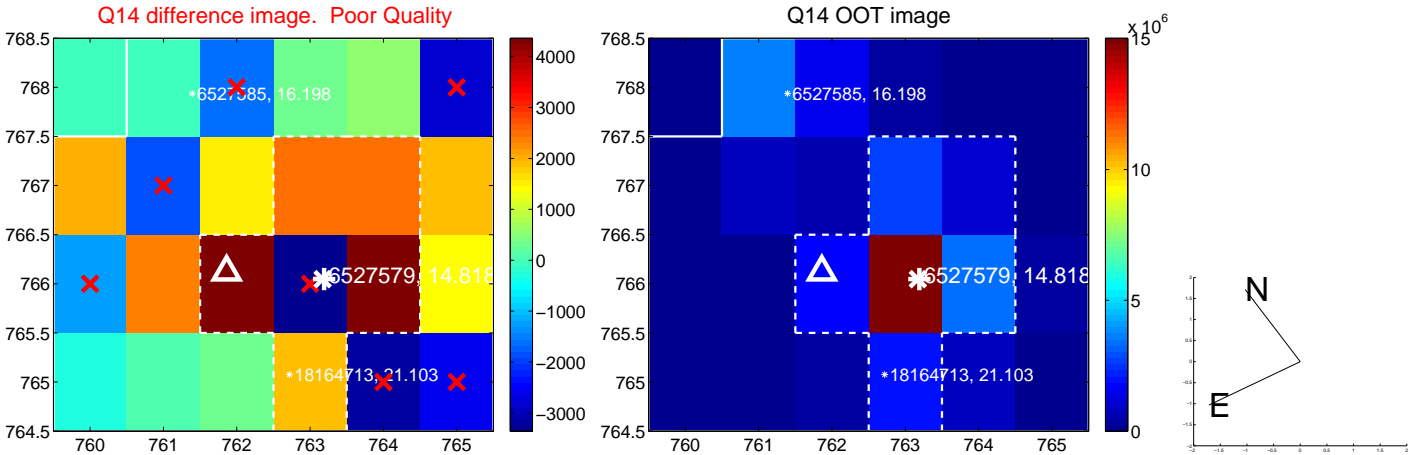
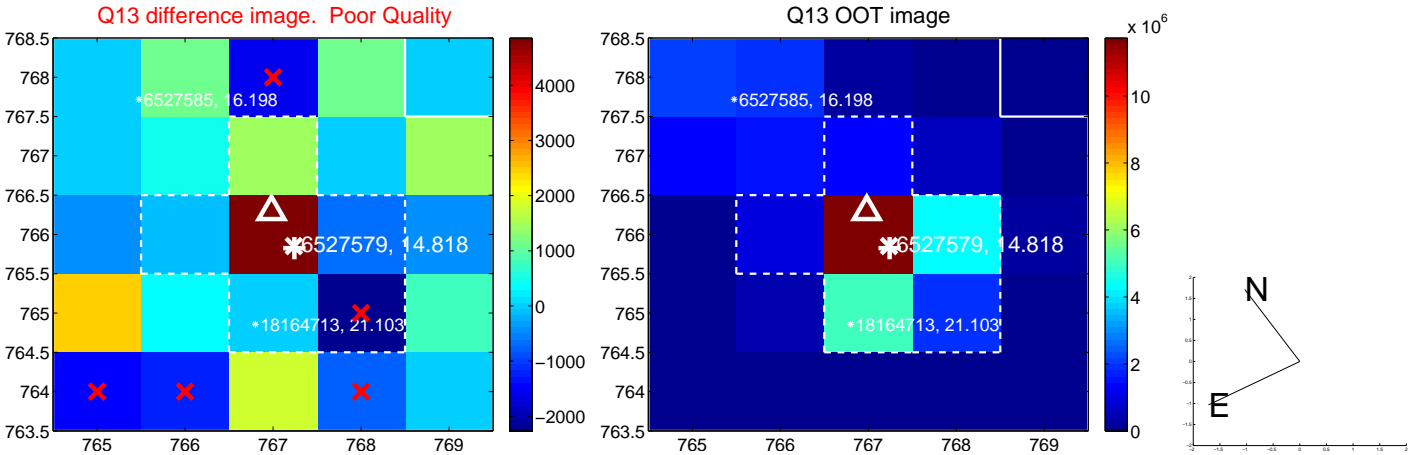
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



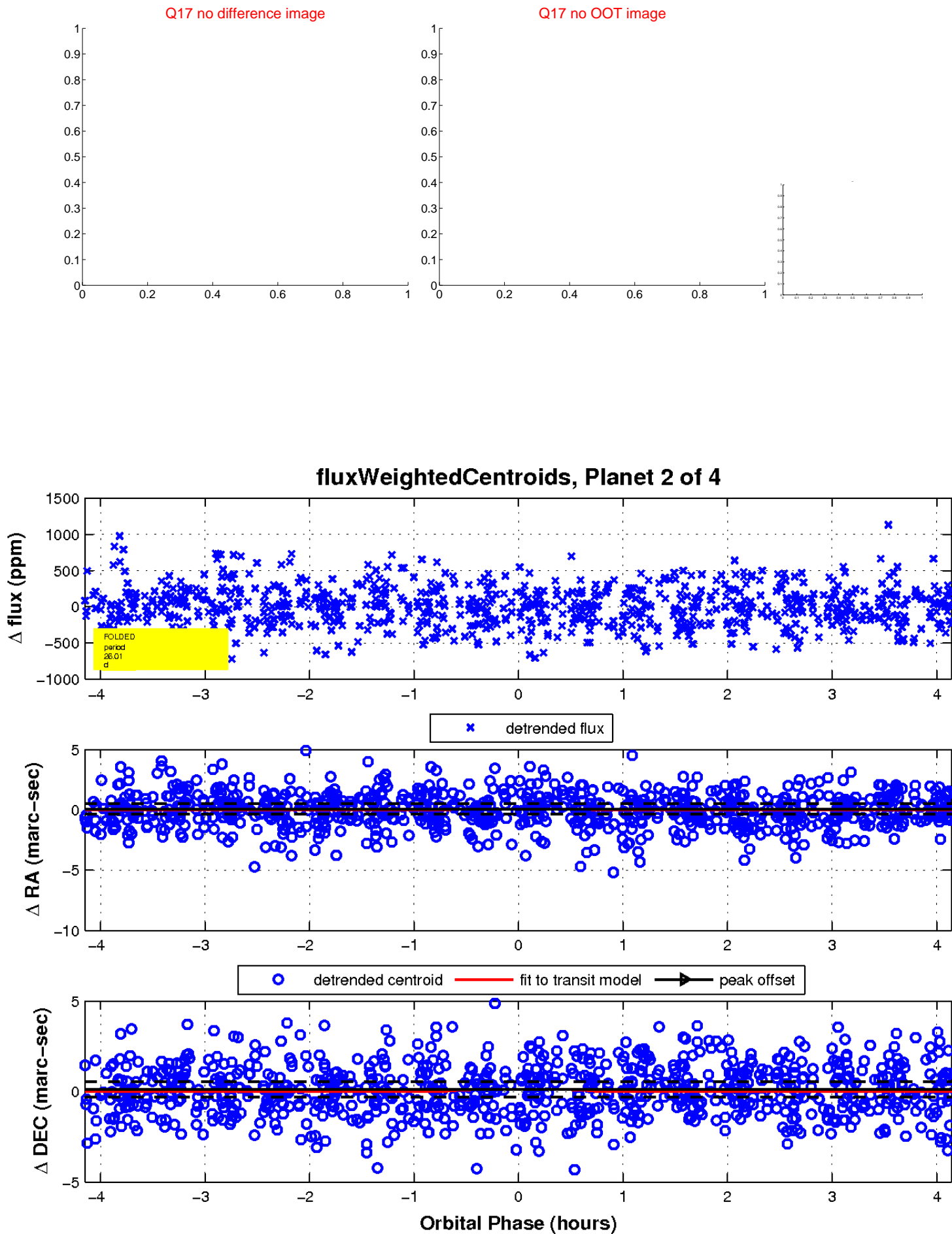
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

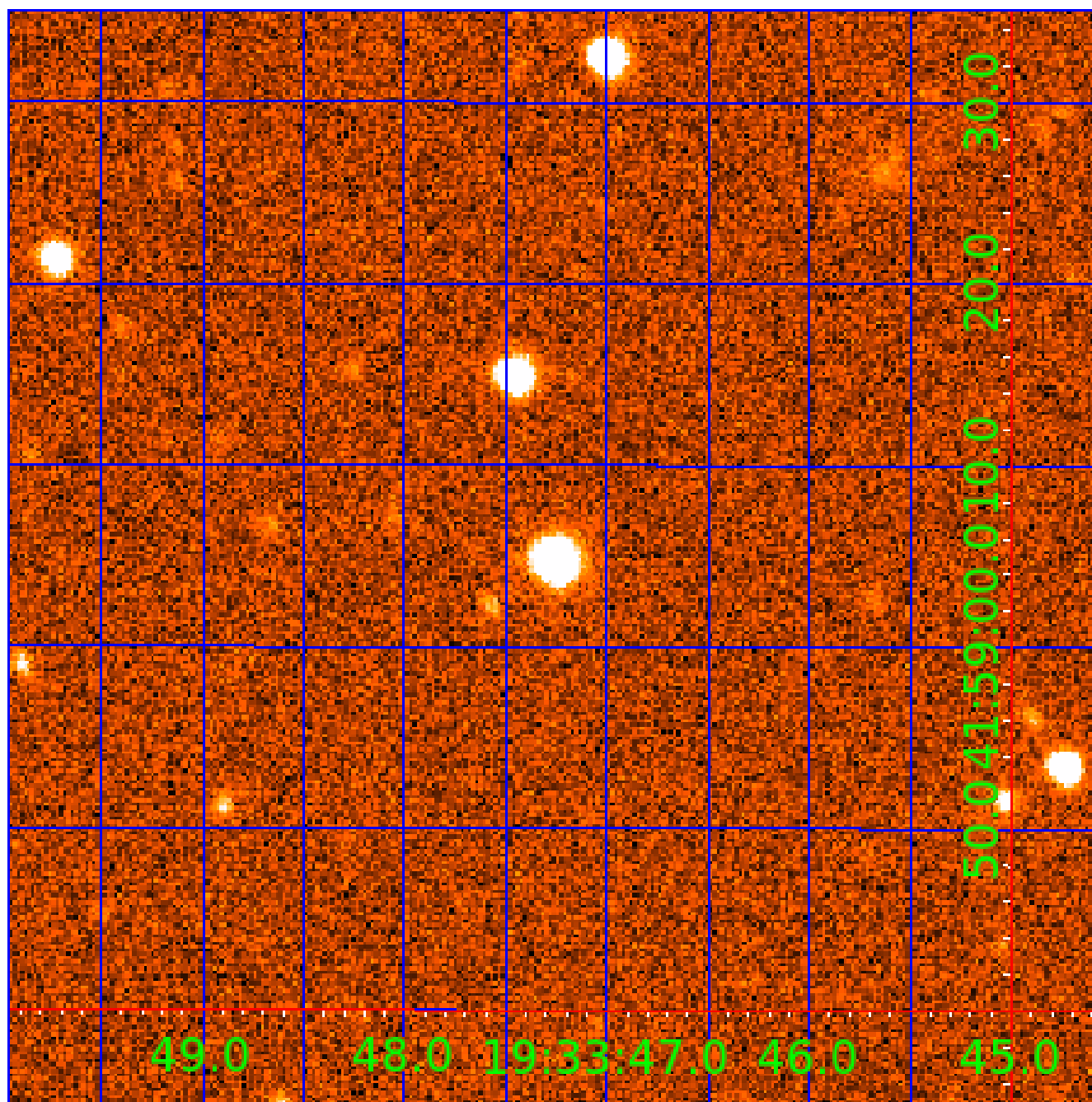


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006527579

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})
006527579-01	OBS	No	0.715019	131.642096	24.5	5.077	9.1	9.9	0.99	6153	0.53	4959.66
006527579-02	OBS	No	26.012231	150.972550	459.2	1.384	12.3	11.8	0.99	6153	2.28	41.14
006527579-03	OBS	No	24.752692	145.894198	478.8	1.322	10.9	10.4	0.99	6153	2.24	43.96
006527579-04	OBS	No	27.125818	132.591456	964.9	0.595	9.0	8.5	0.99	6153	3.67	38.91

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006527579-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_UNRESOLVED_OFFSET
006527579-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
006527579-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS
006527579-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

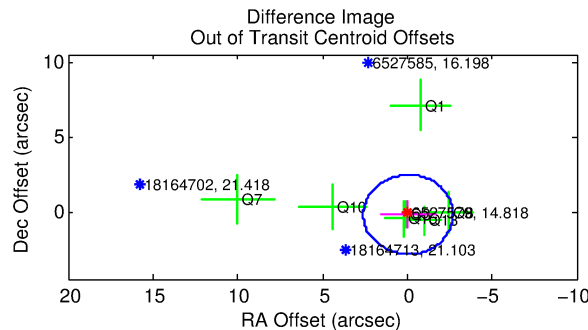
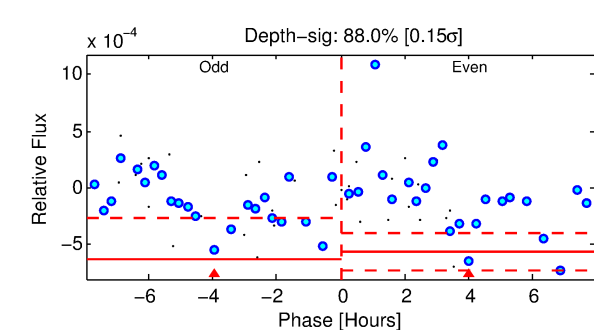
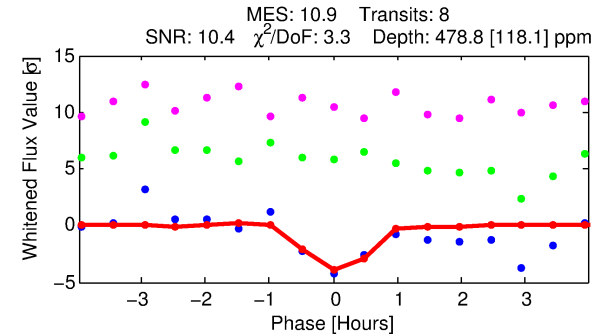
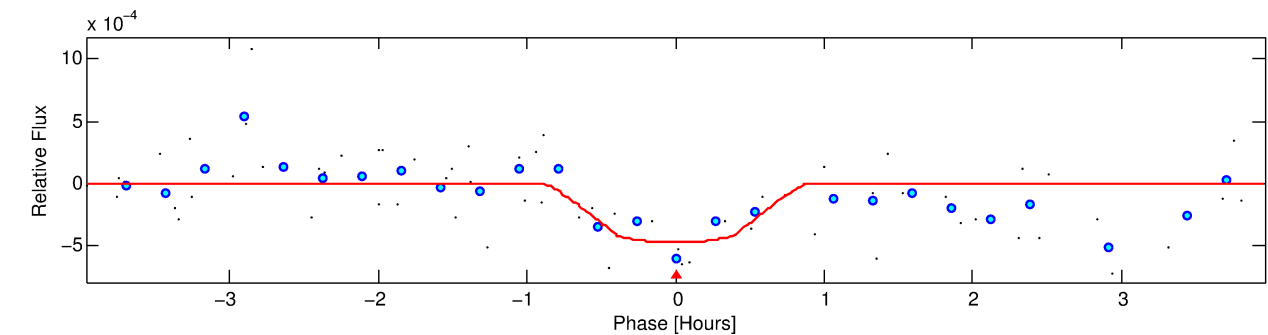
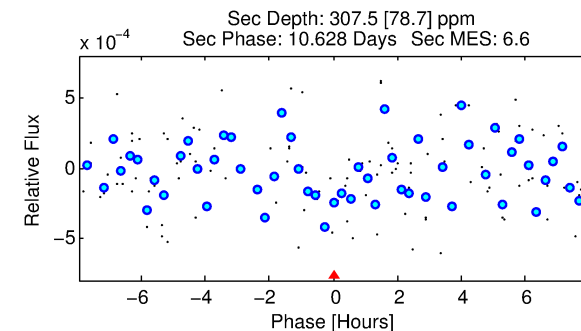
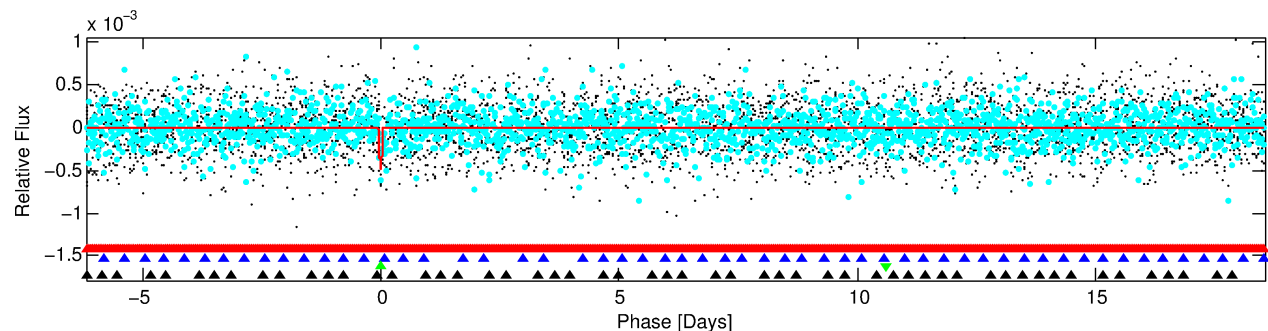
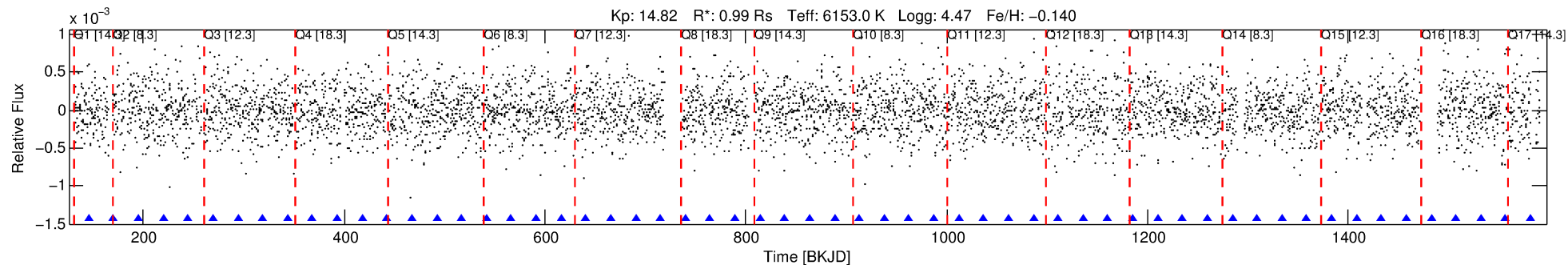
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006527579-03

No Significant Match Found

DV One-Page Summary

KIC: 6527579 Candidate: 3 of 4 Period: 24.753 d



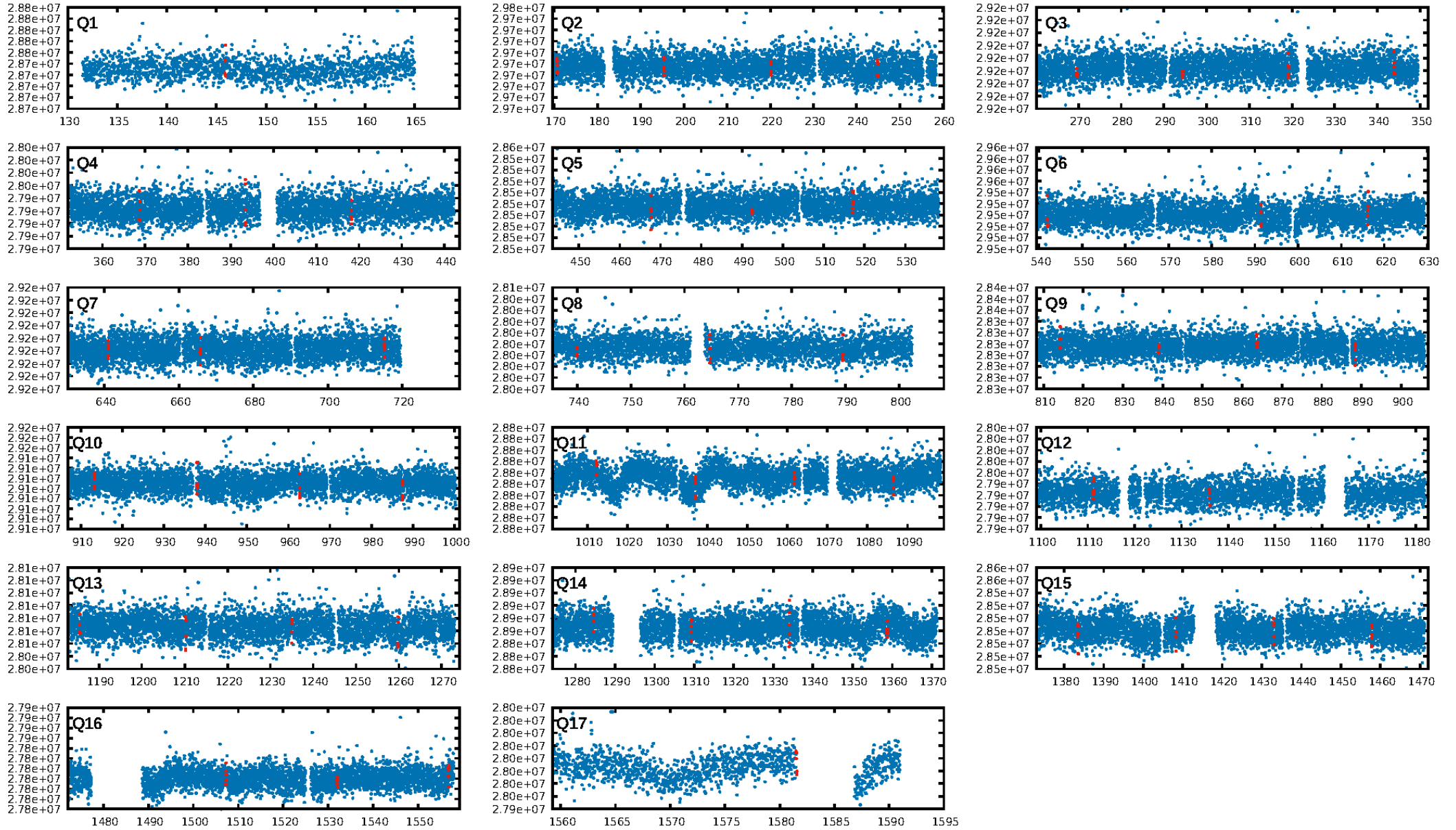
DV Fit Results:

Period = 24.75269 [0.00035] d
Epoch = 145.8942 [0.0125] BKJD
Rp/R* = 0.0207 [0.0490]
a/R* = 127.73 [1494.53]
b = 0.49 [17.89]
Seff = 43.96 [17.05]
Teq = 657 [64] K
Rp = 2.24 [5.35] Re
a = 0.1697 [0.0417] AU
Ag = 967.66 [4596.14] [0.21 σ]
Teffp = 5662 [6706] K [0.75 σ]

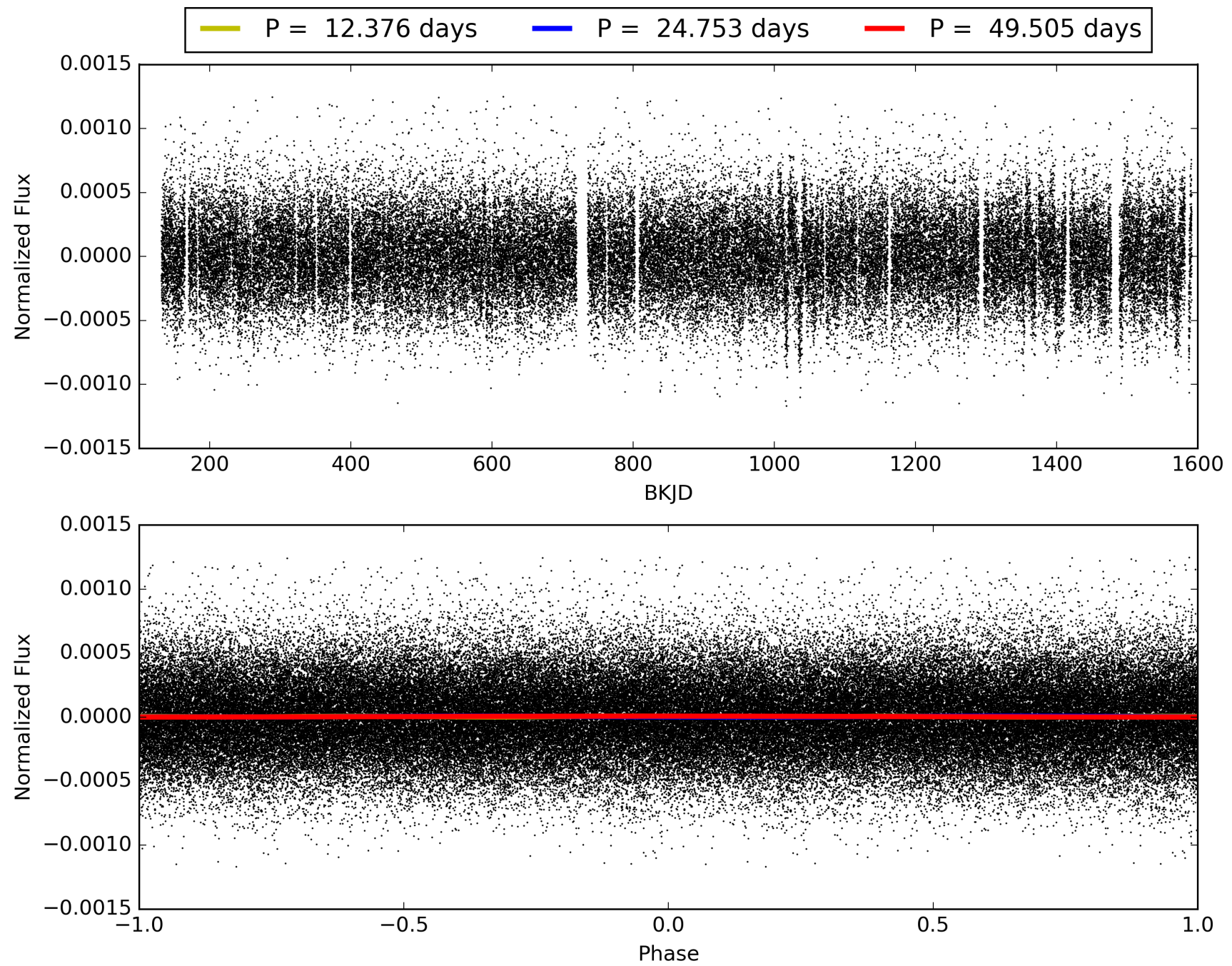
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [109.97 σ]
LongPeriod-sig: 100.0% [15.79 σ]
ModelChiSquare2-sig: 5.8%
ModelChiSquareGof-sig: 80.0%
Bootstrap-pfa: 8.77e-11
RollingBand-fgt: 1.00 [8/8]
GhostDiagnostic-chr: -1.592
Centroid-sig: 0.0%
Centroid-so: 1.585 arcsec [1.93 σ]
OotOffset-rm: 0.210 arcsec [0.24 σ]
KicOffset-rm: 0.301 arcsec [0.33 σ]
OotOffset-st: 1/3/1/2 [7]
KicOffset-st: 1/3/1/2 [7]
DiffImageQuality-fgm: 0.00 [0/7]
DiffImageOverlap-fno: 0.19 [3/16]

TCE 006527579-03, PDC Light Curves

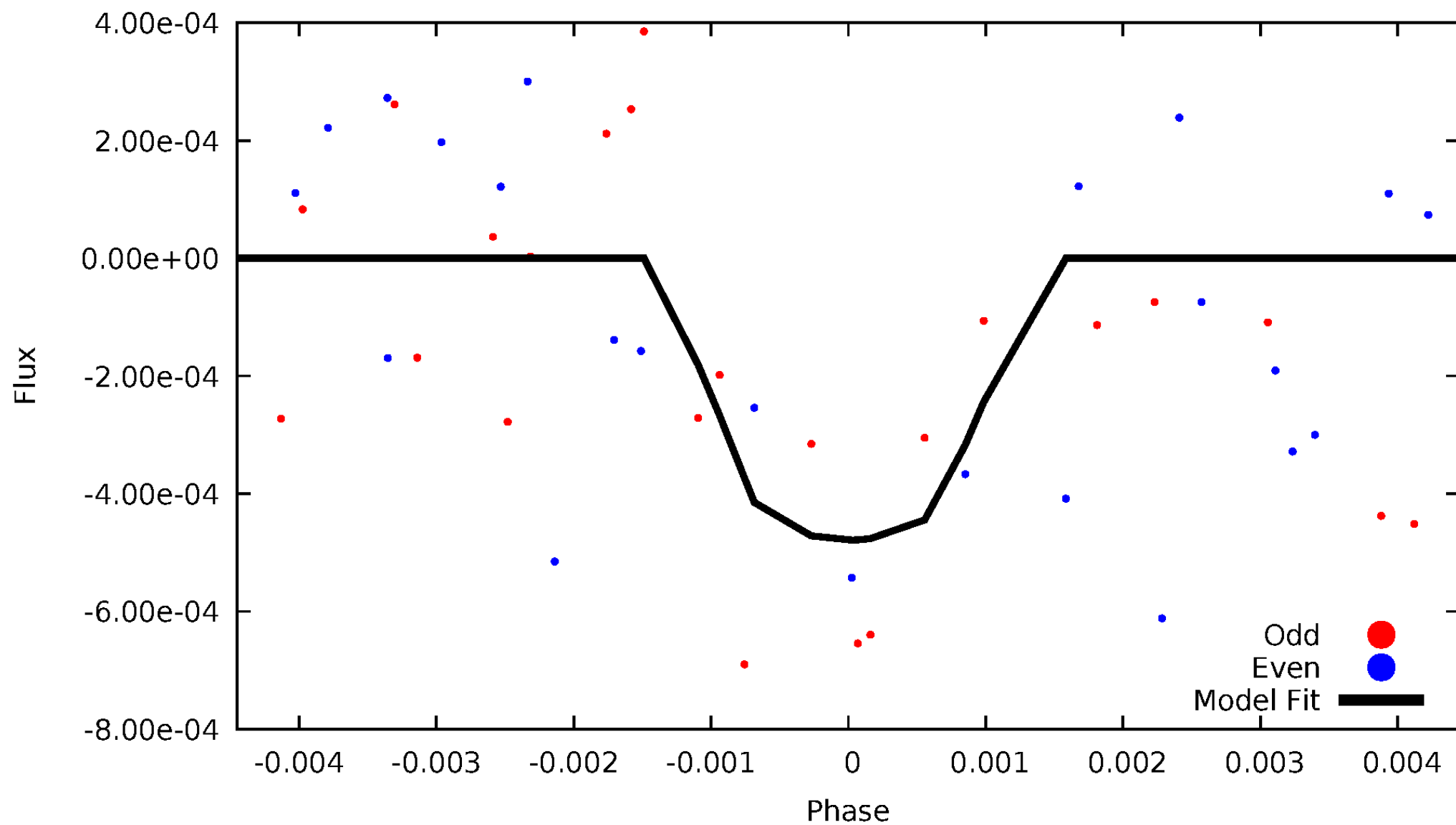


TCE 006527579-03



DV Odd/Even

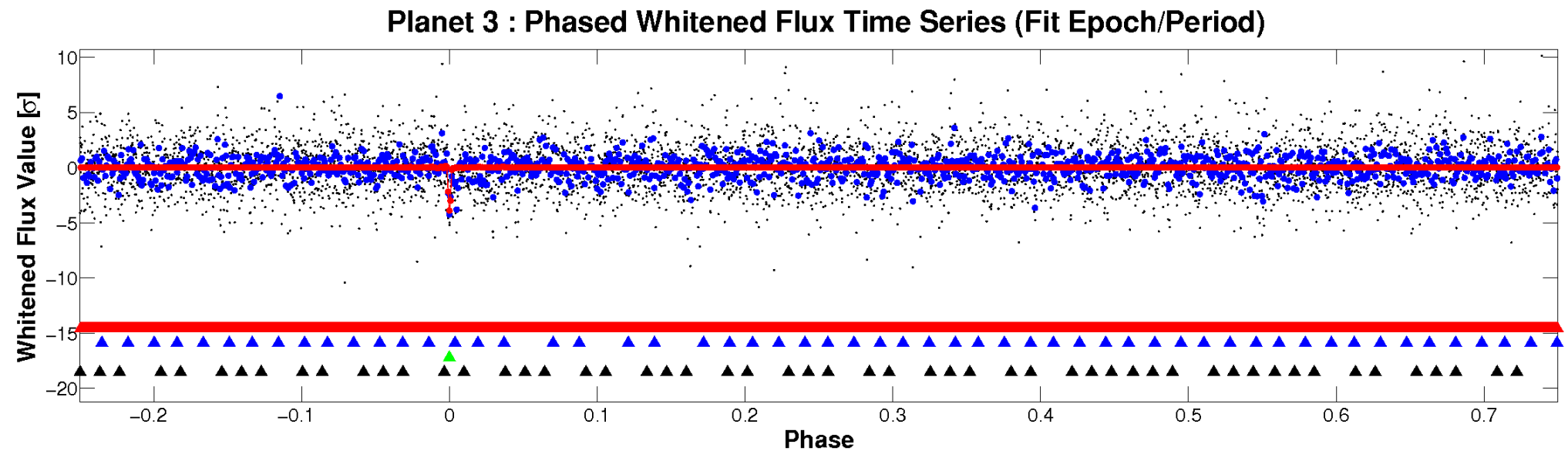
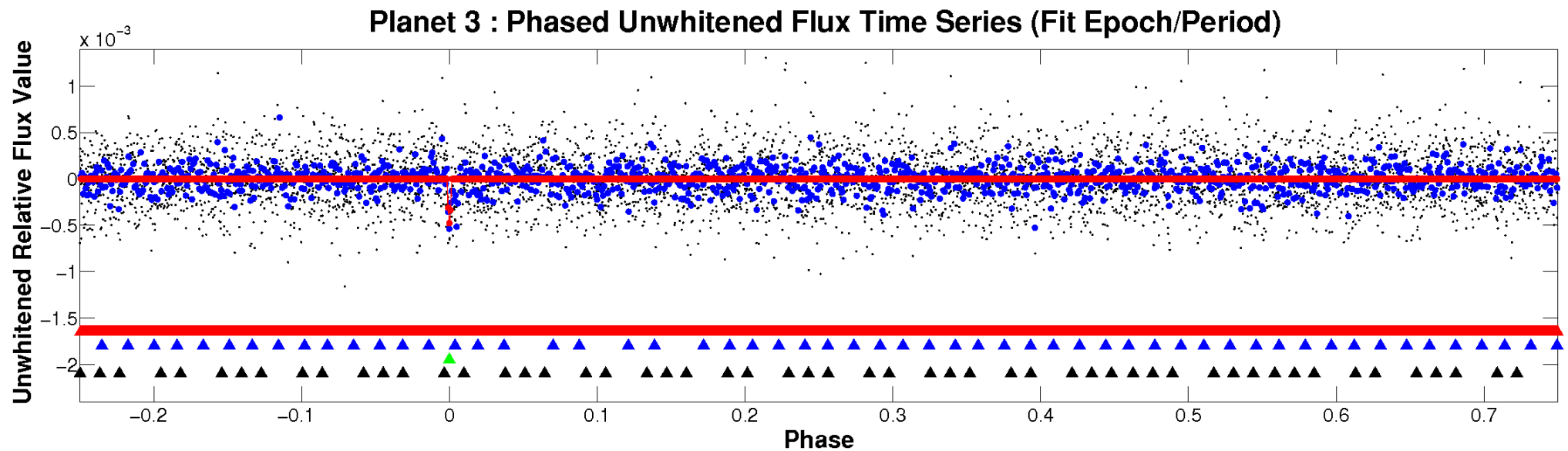
TCE 006527579-03



ALT Odd/Even

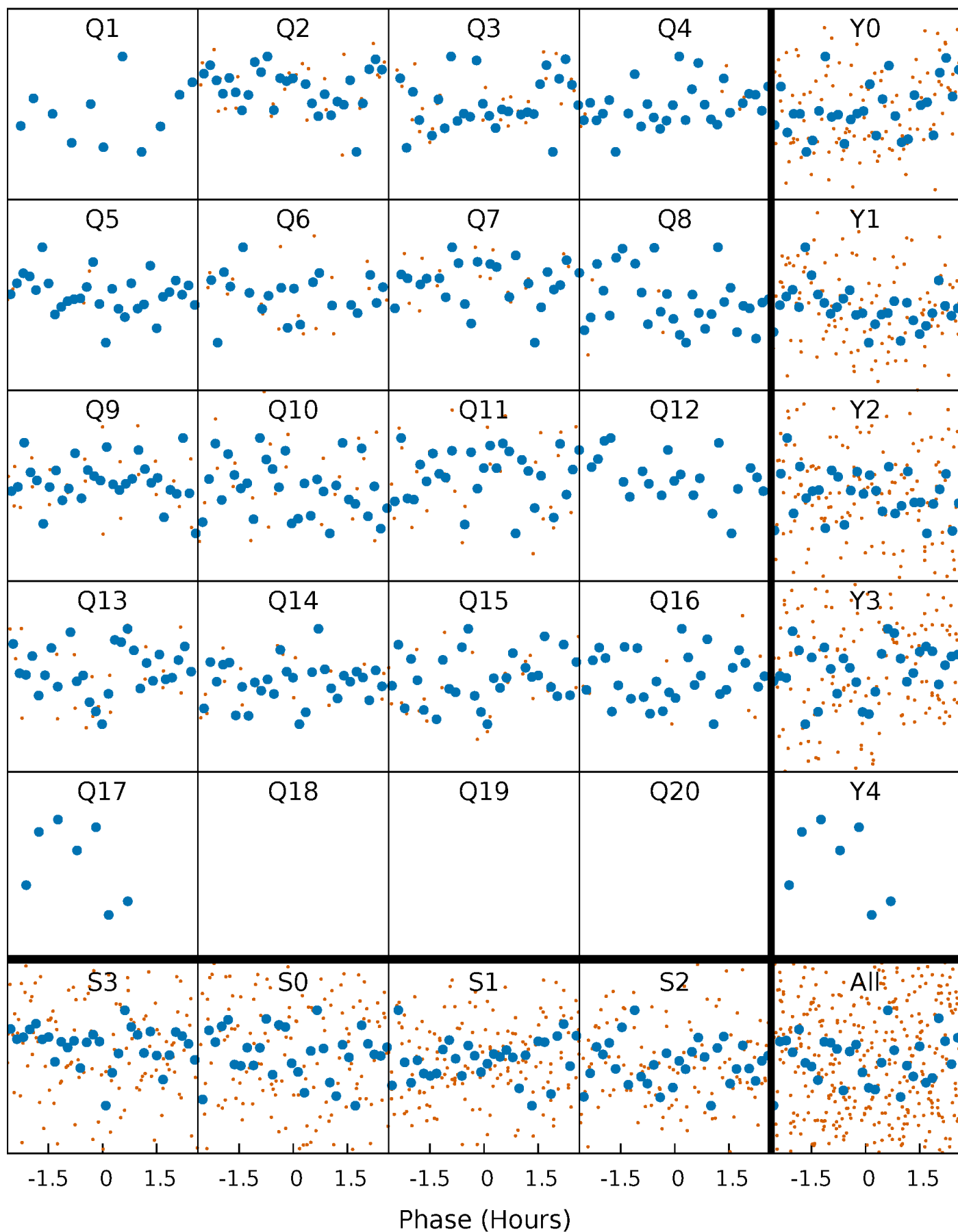
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve



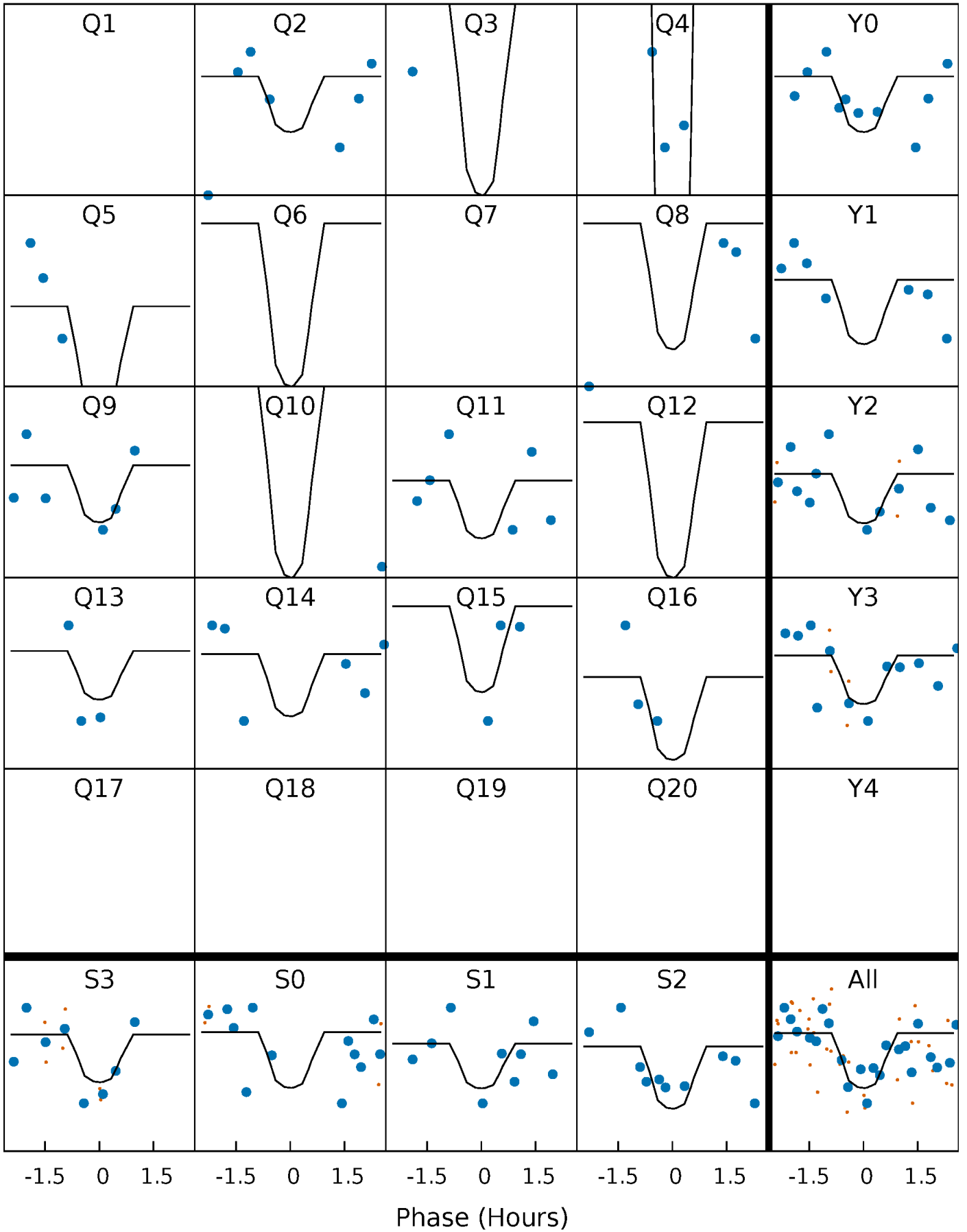
PDC Quarter-Phased Transit Curves

TCE 006527579-03 P= 24.752692 Days $T_0=145.894198$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006527579-03 P= 24.752692 Days $T_0=145.894198$ (BKJD)

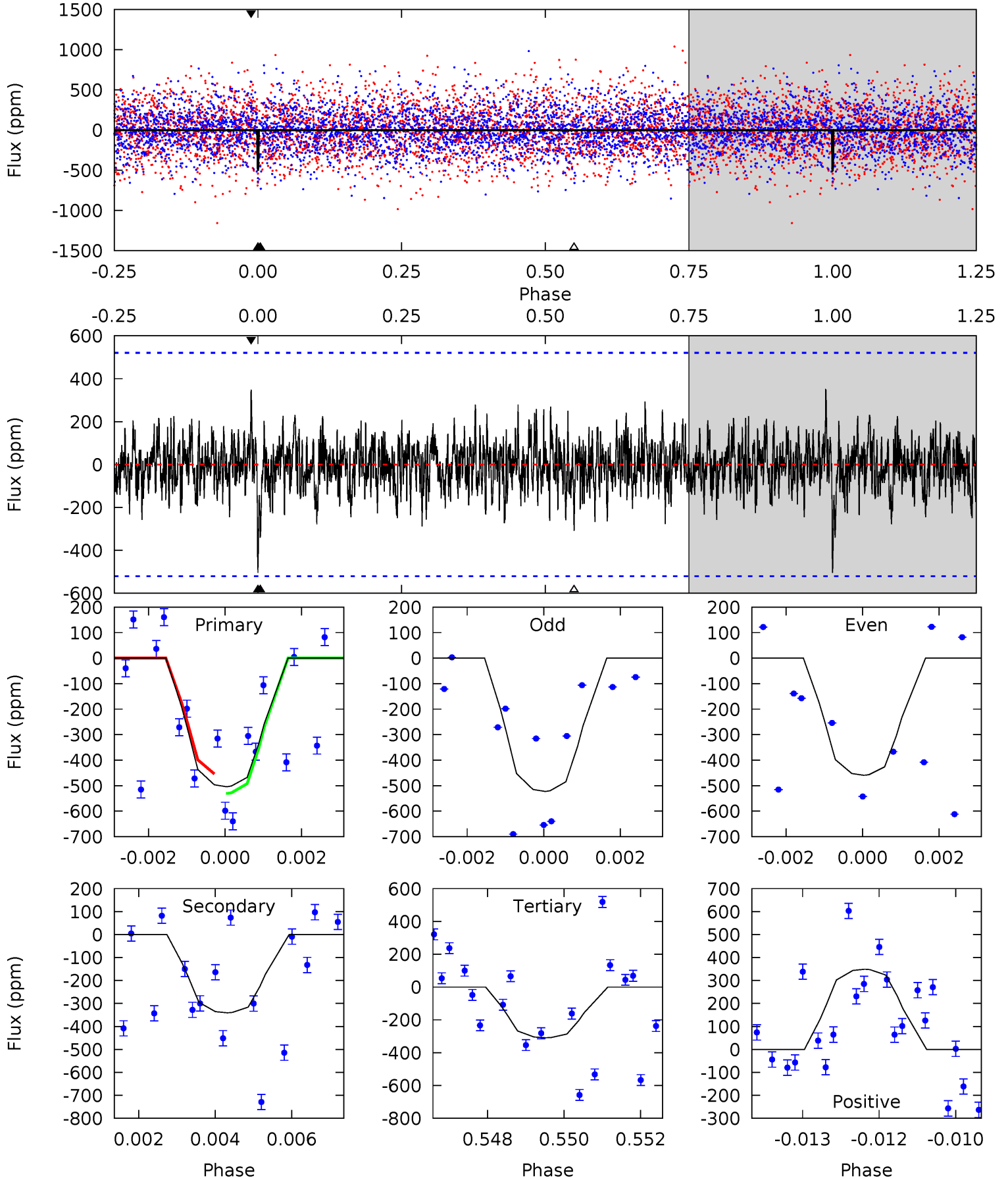


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006527579-03, P = 24.752692 Days, E = 121.141506 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.16	3.49	3.17	3.57	5.33	3.10	0.97	2.00	1.59	0.32	-0.09	0.32	1.00	0.41	0.38



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006527579

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6153^{+171}_{-214}	$4.471^{+0.050}_{-0.200}$	$-0.140^{+0.250}_{-0.300}$	$0.993^{+0.286}_{-0.102}$	$1.065^{+0.139}_{-0.139}$	$1.531^{+0.404}_{-0.769}$
	+3%/-3%	+1%/-4%	+179%/-214%	+29%/-10%	+13%/-13%	+26%/-50%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006527579-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-341 ± 98	$4.73^{+4.47}_{-3.27}$	937^{+65}_{-44}	4350^{+3185}_{-900}	231^{+2337}_{-171}
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 $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

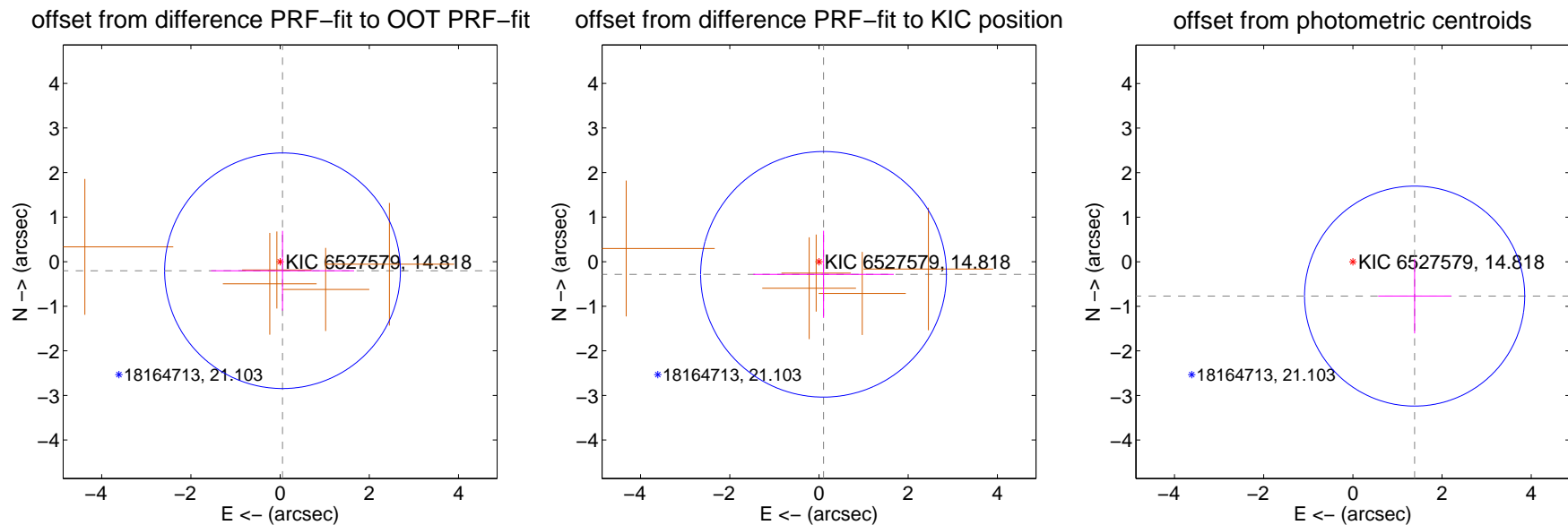
DV Centroid Data

Supplemental centroid analysis for 006527579-03. Kepler magnitude: 14.82. Transit SNR 10.36

There are 0 quarters with good PRF difference image offsets

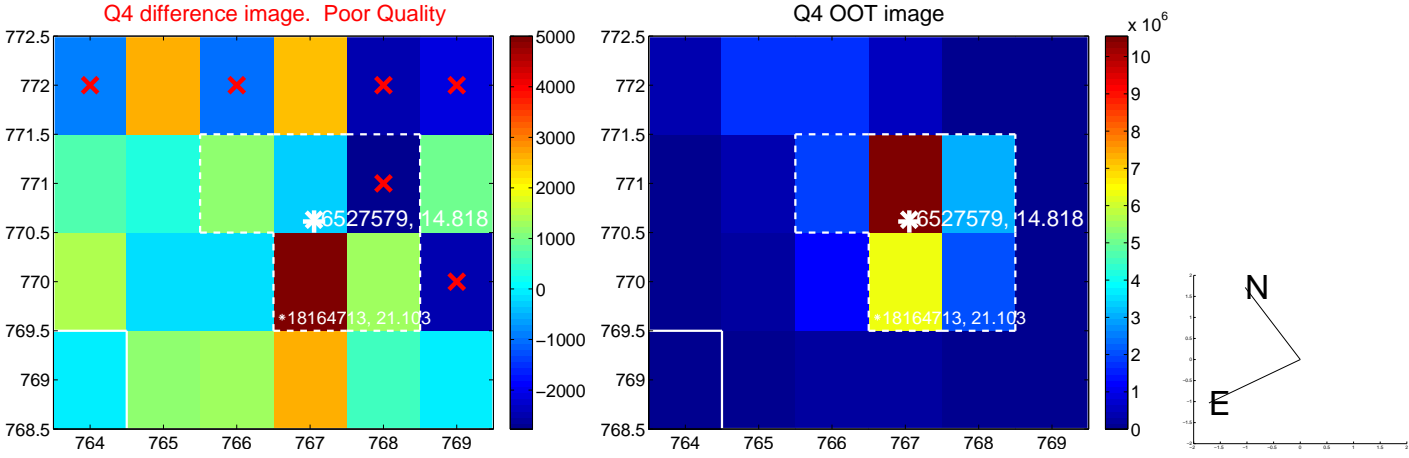
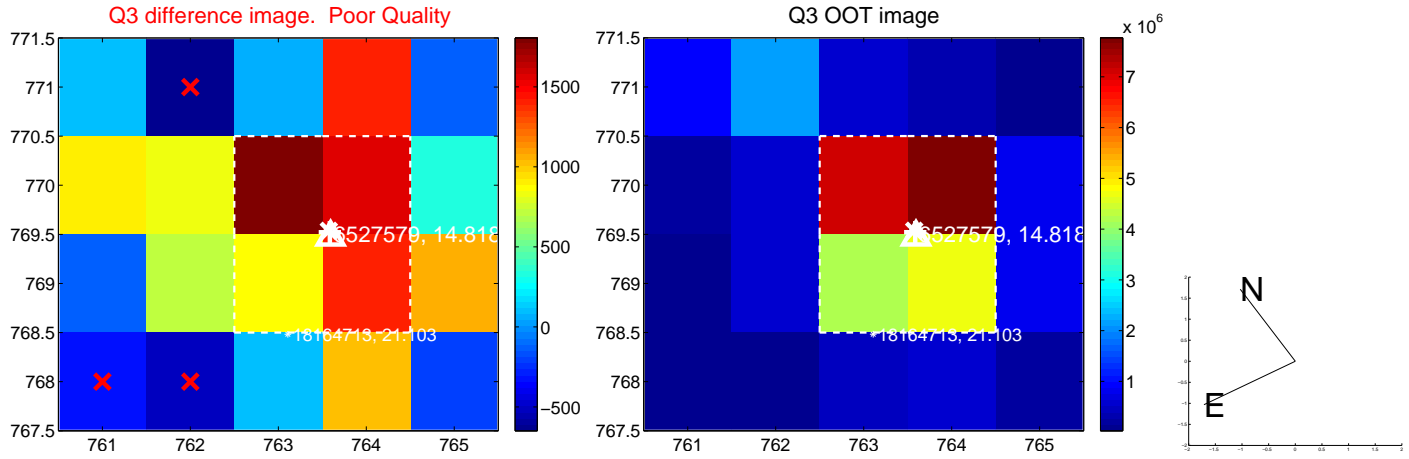
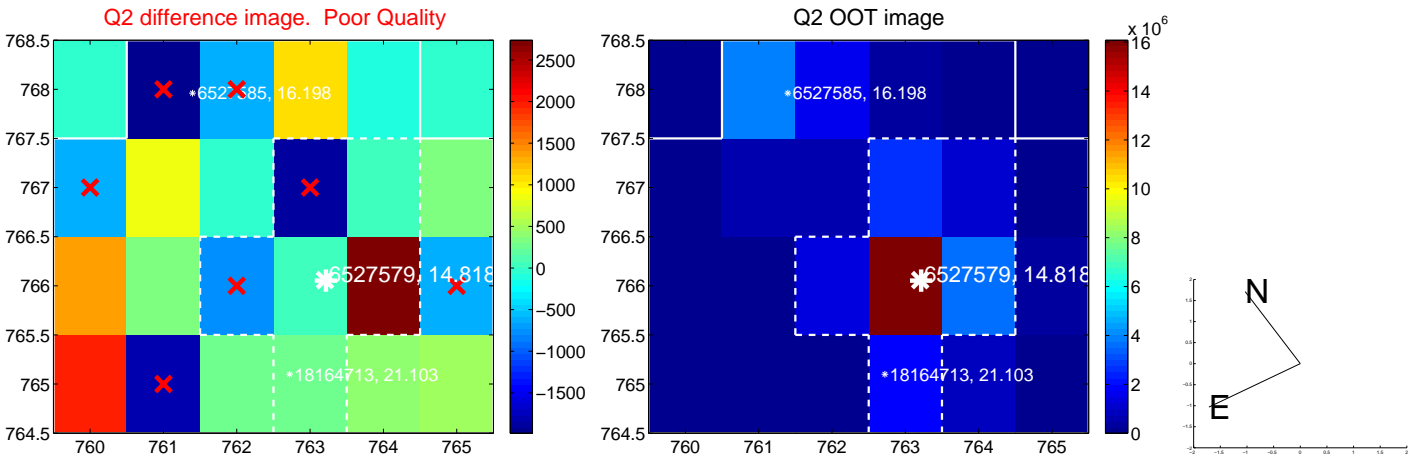
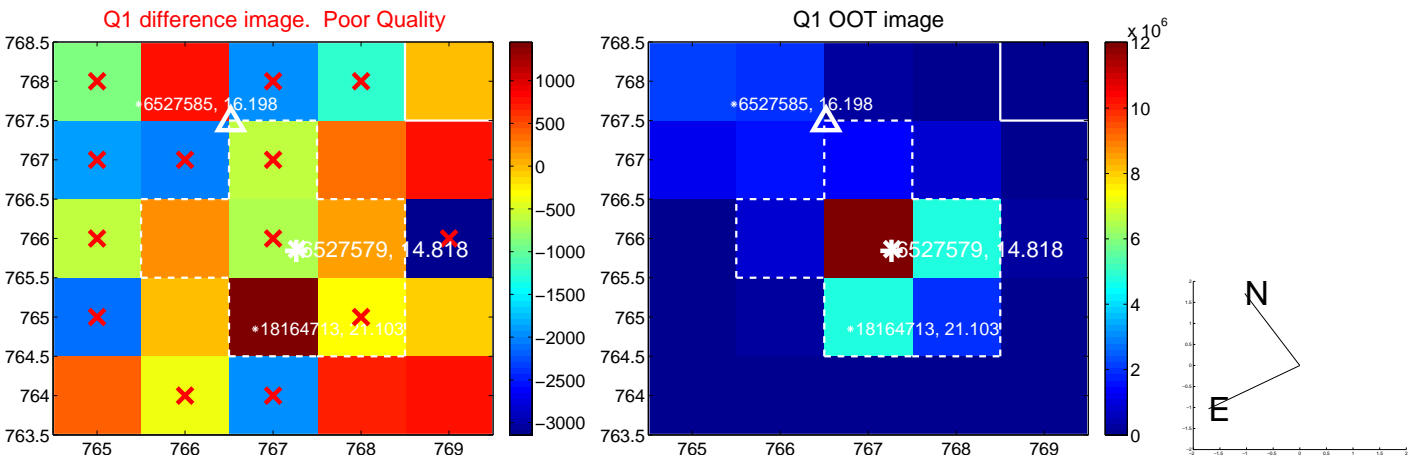
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.210 ± 0.881	0.24	-0.054 ± 1.604	-0.203 ± 0.895
PRF-fit source offset from KIC position	0.301 ± 0.918	0.33	-0.102 ± 1.576	-0.283 ± 0.977
photometric centroid source offset	1.59 ± 0.82	1.93	-1.39 ± 0.82	-0.77 ± 0.84

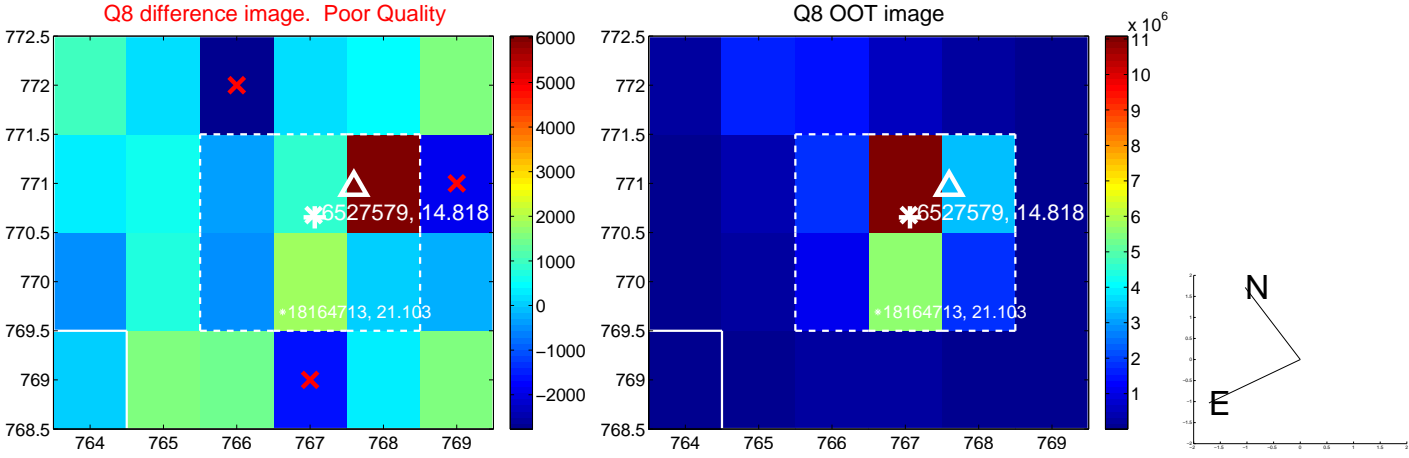
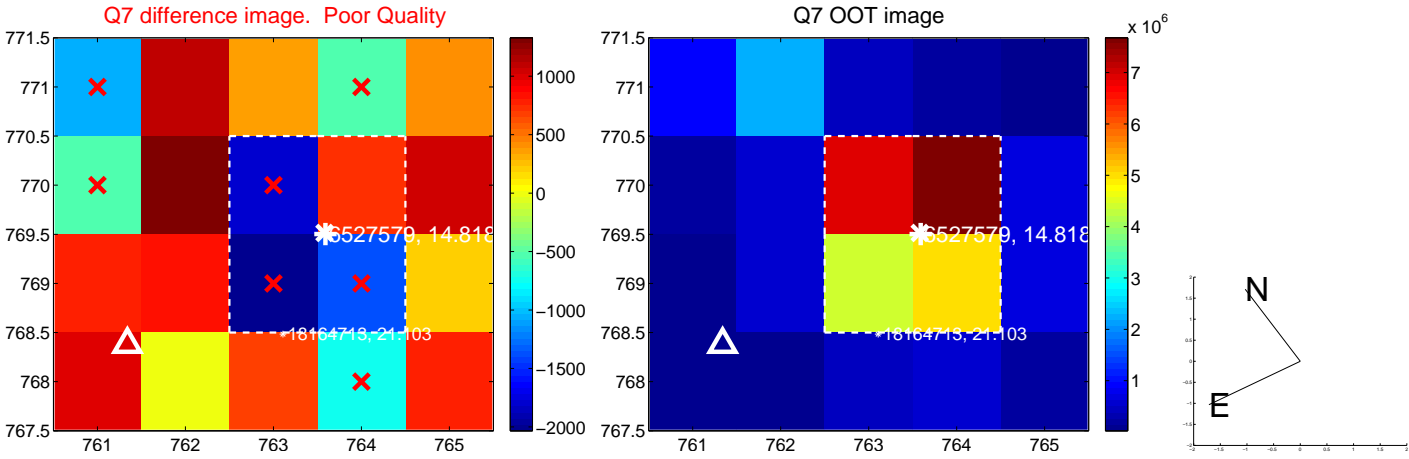
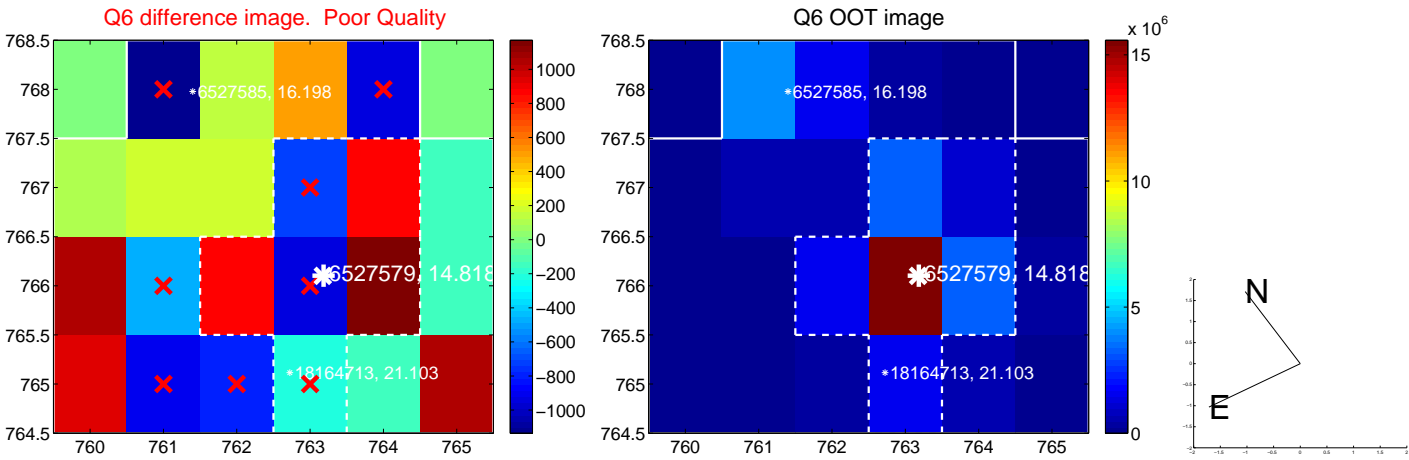
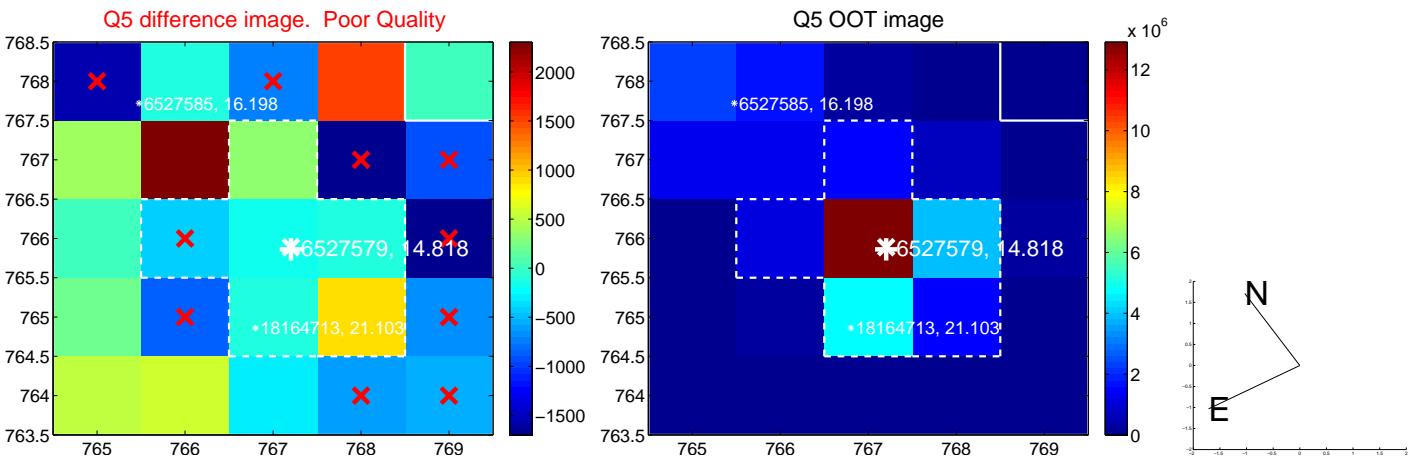


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

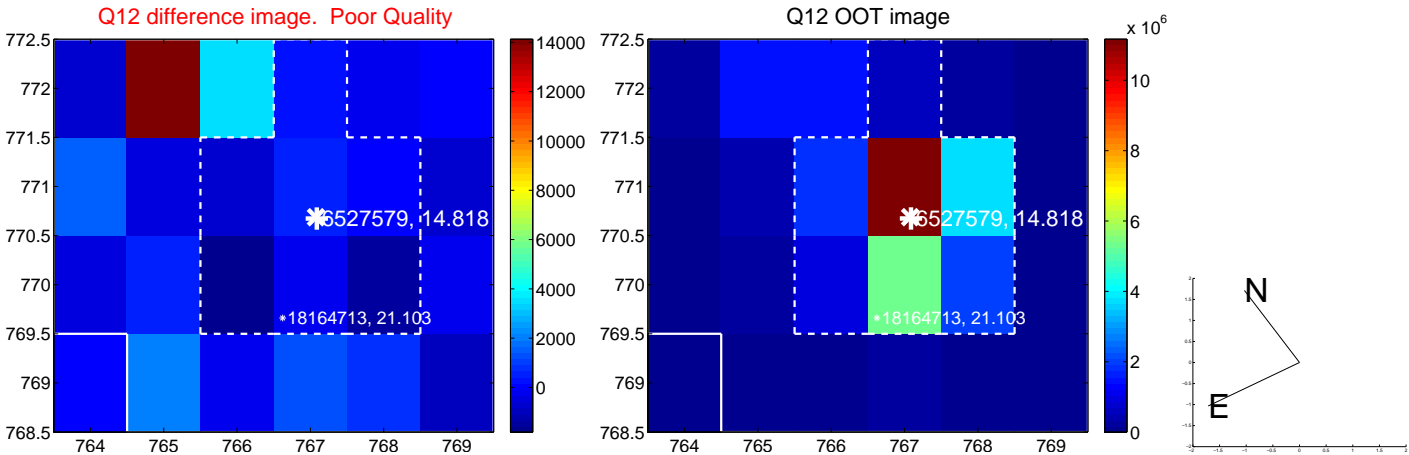
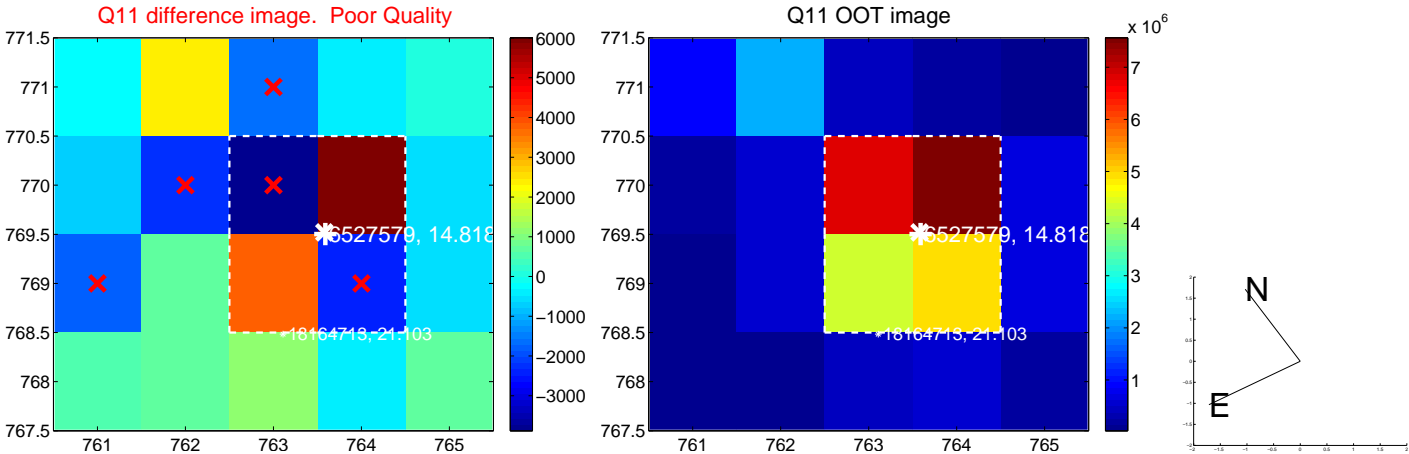
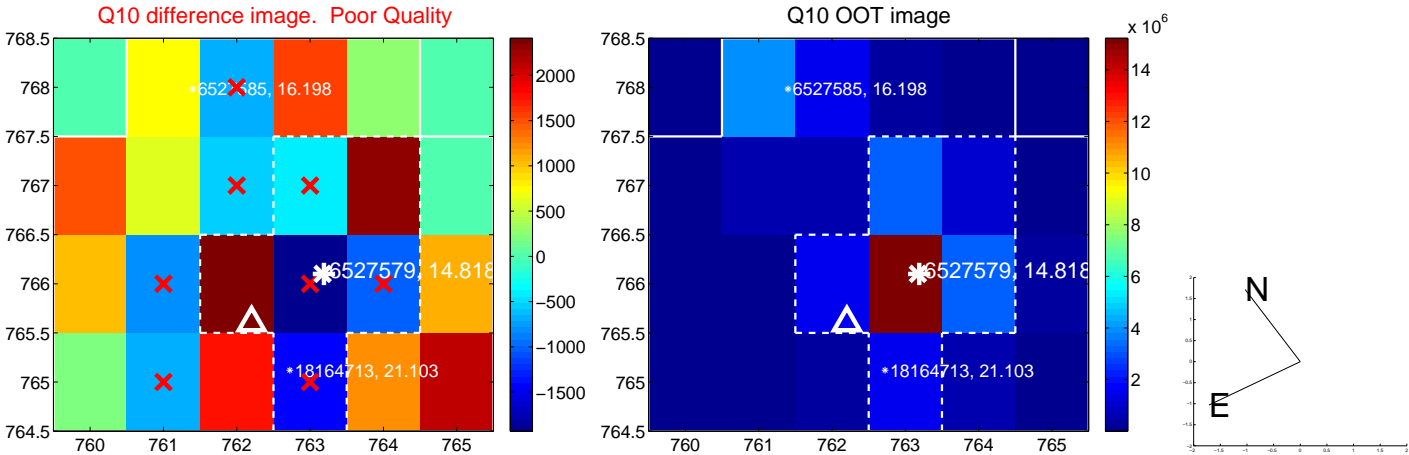
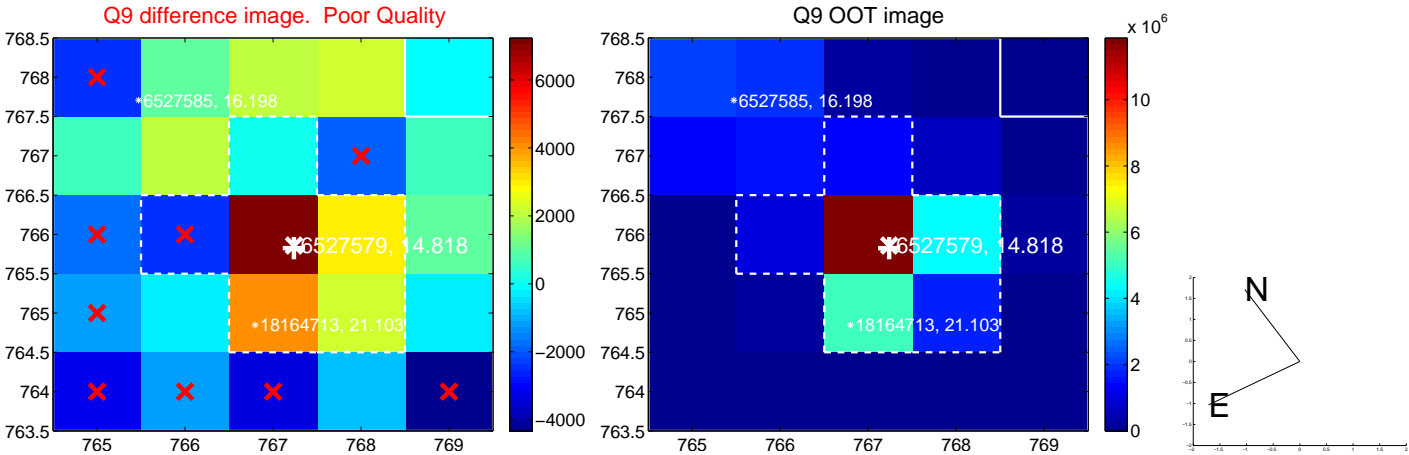
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



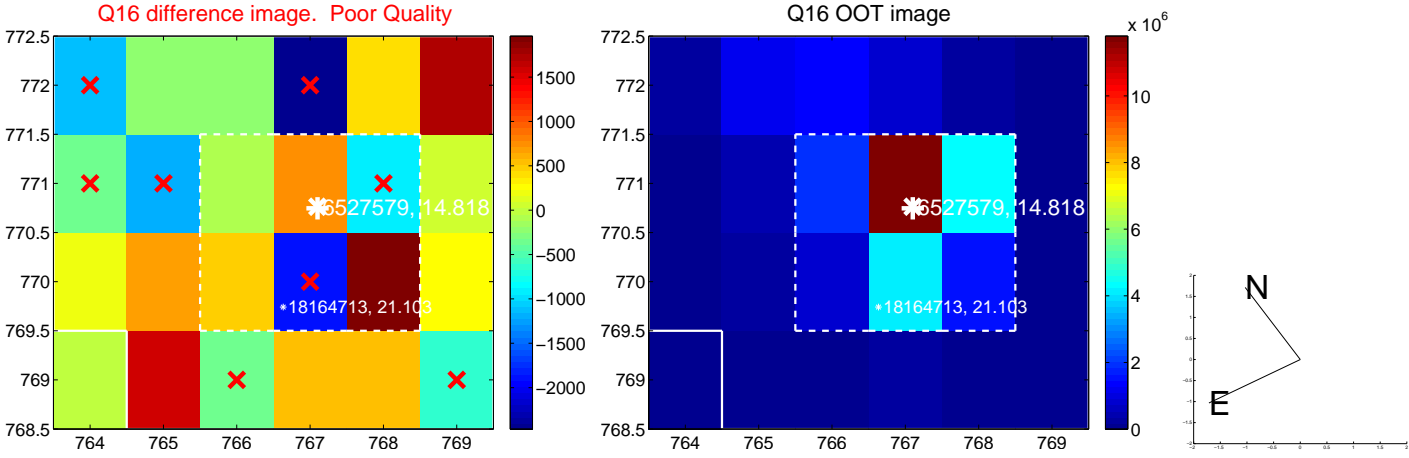
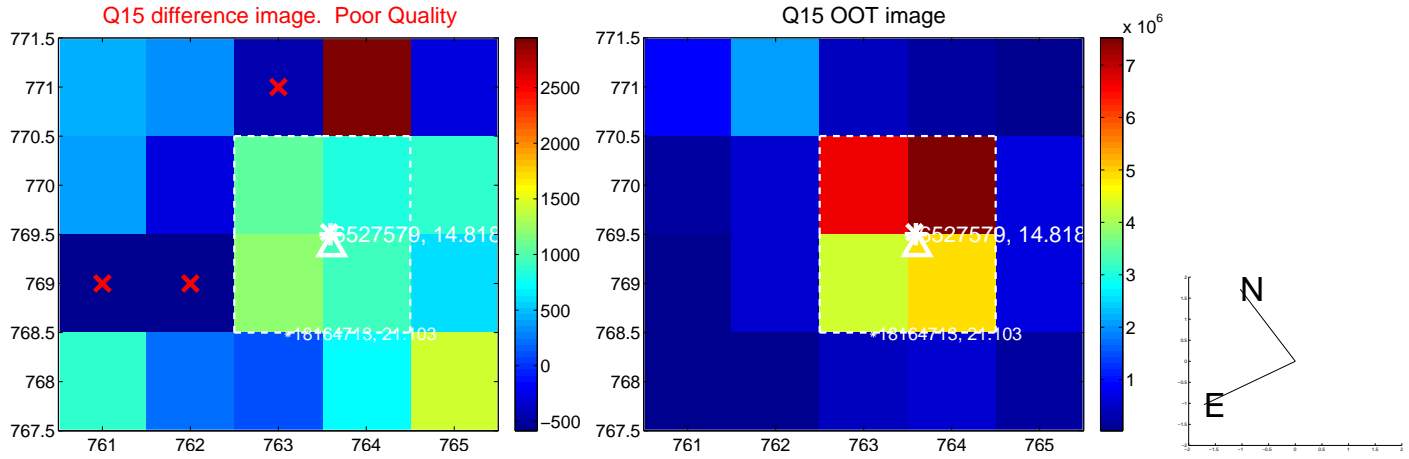
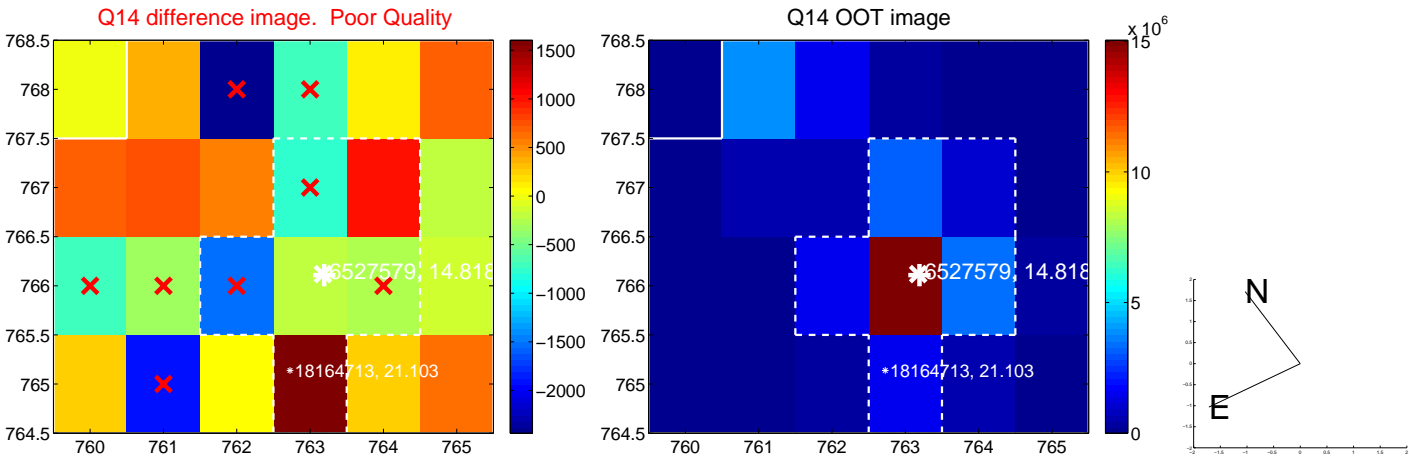
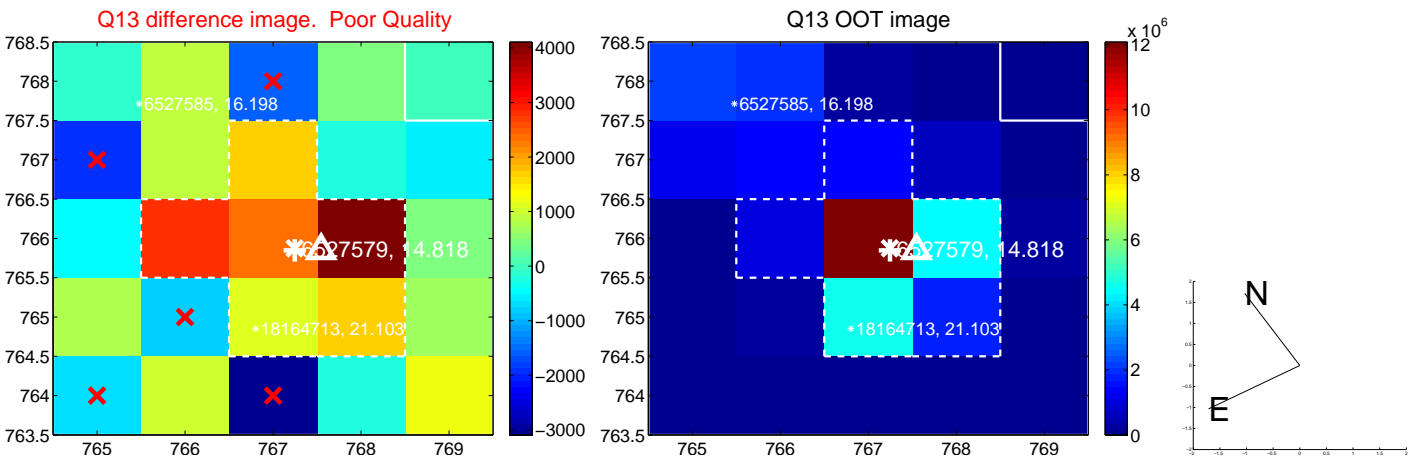
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



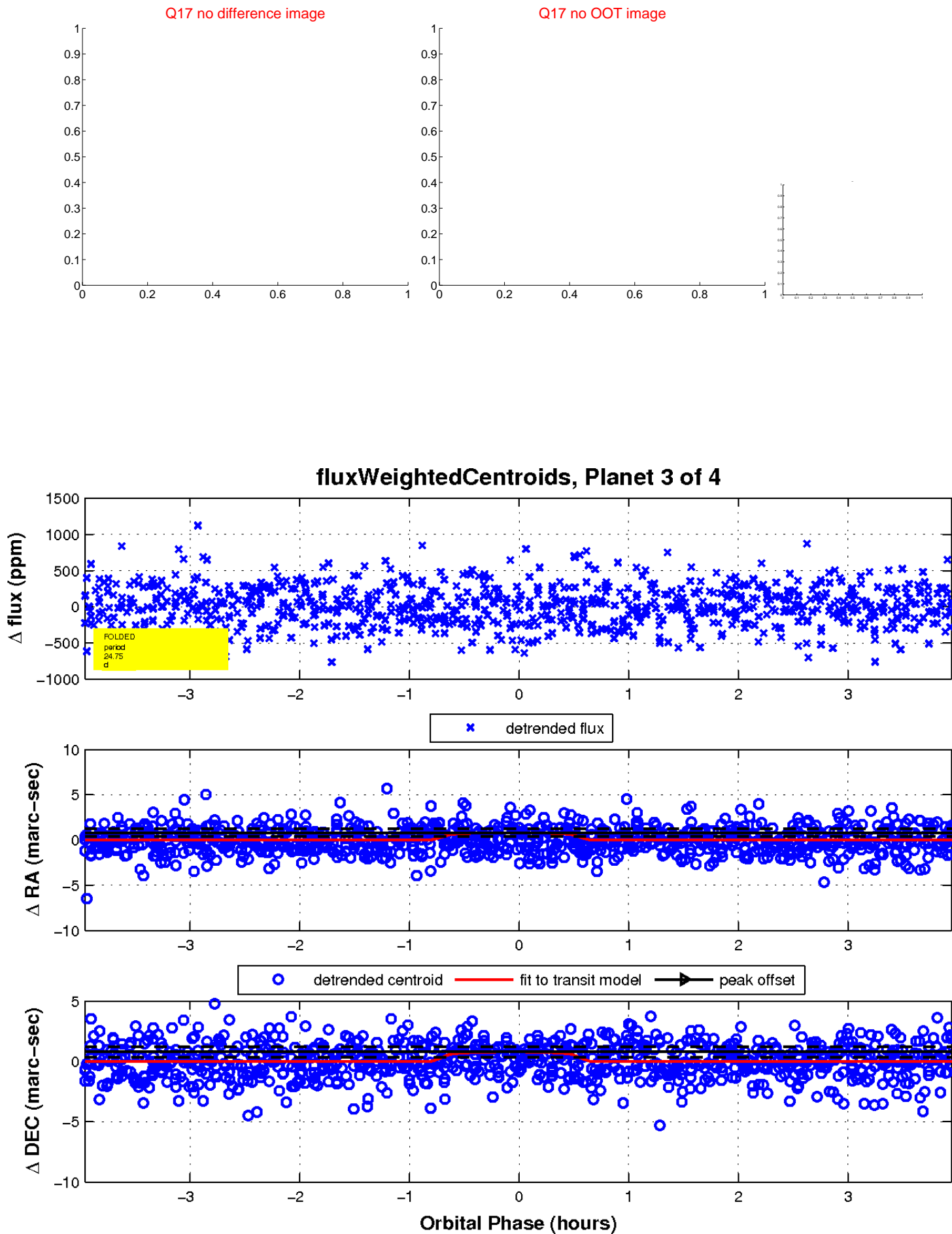
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

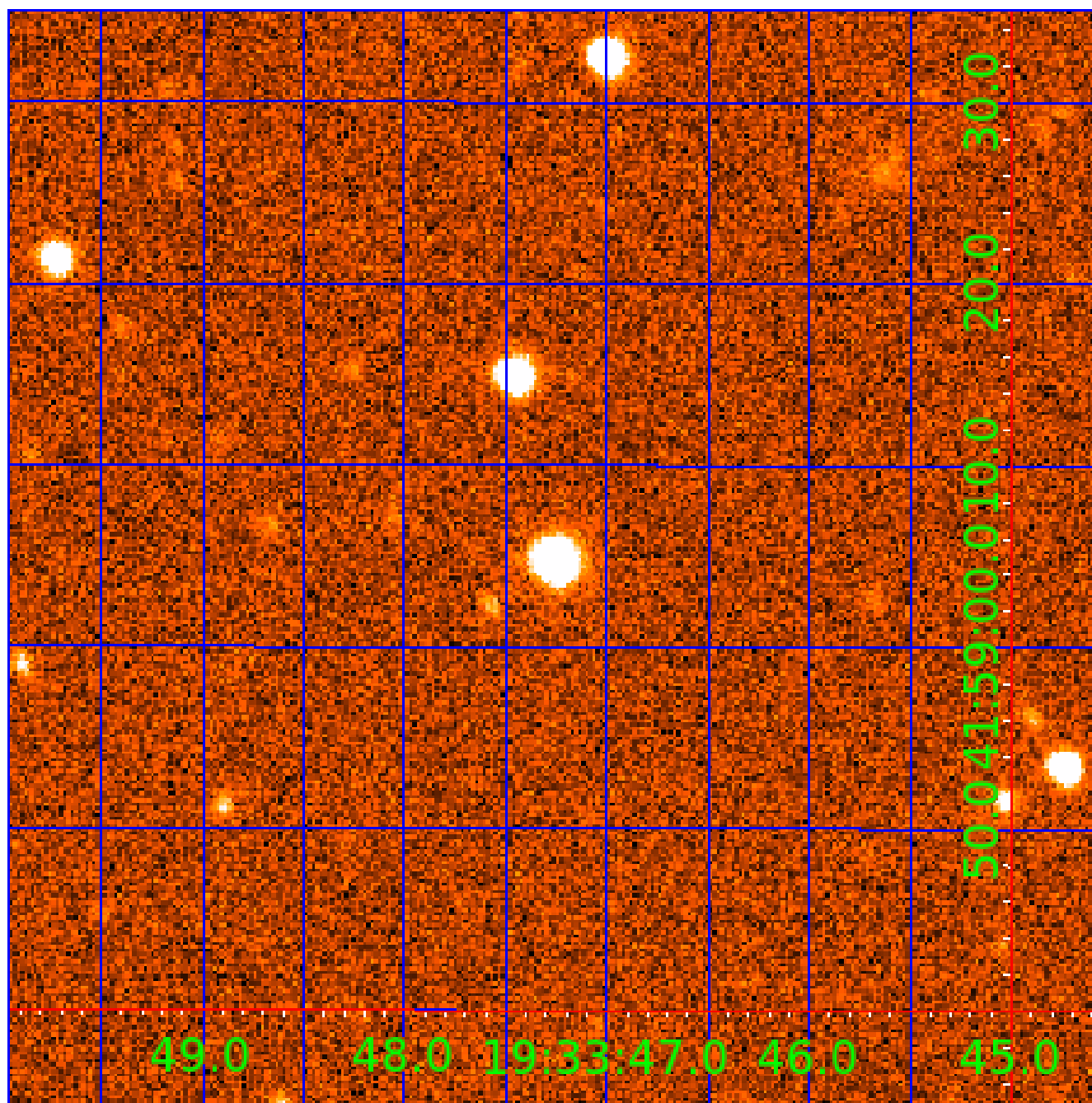


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006527579

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})
006527579-01	OBS	No	0.715019	131.642096	24.5	5.077	9.1	9.9	0.99	6153	0.53	4959.66
006527579-02	OBS	No	26.012231	150.972550	459.2	1.384	12.3	11.8	0.99	6153	2.28	41.14
006527579-03	OBS	No	24.752692	145.894198	478.8	1.322	10.9	10.4	0.99	6153	2.24	43.96
006527579-04	OBS	No	27.125818	132.591456	964.9	0.595	9.0	8.5	0.99	6153	3.67	38.91

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006527579-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_UNRESOLVED_OFFSET
006527579-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
006527579-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS
006527579-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

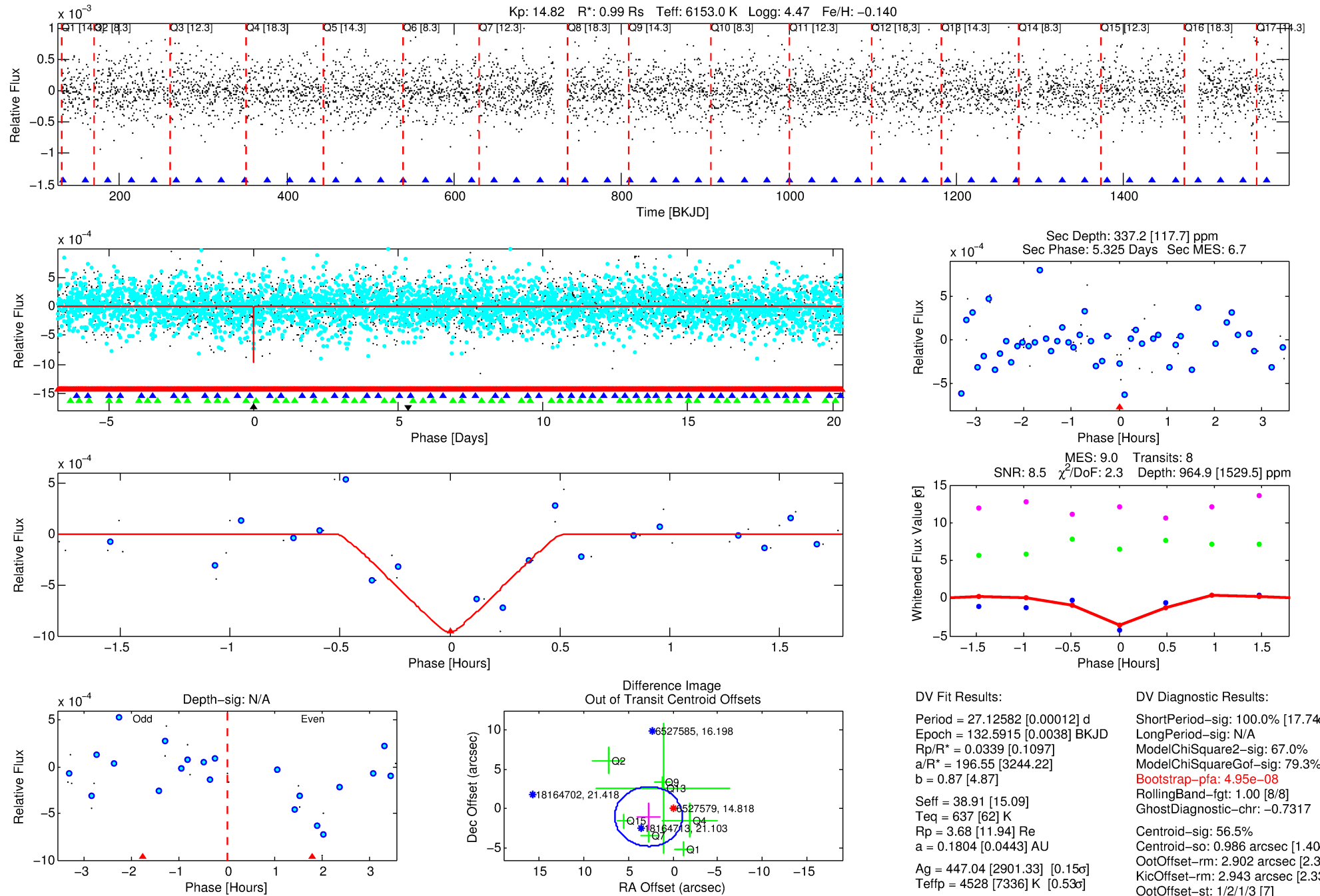
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006527579-04

No Significant Match Found

DV One-Page Summary

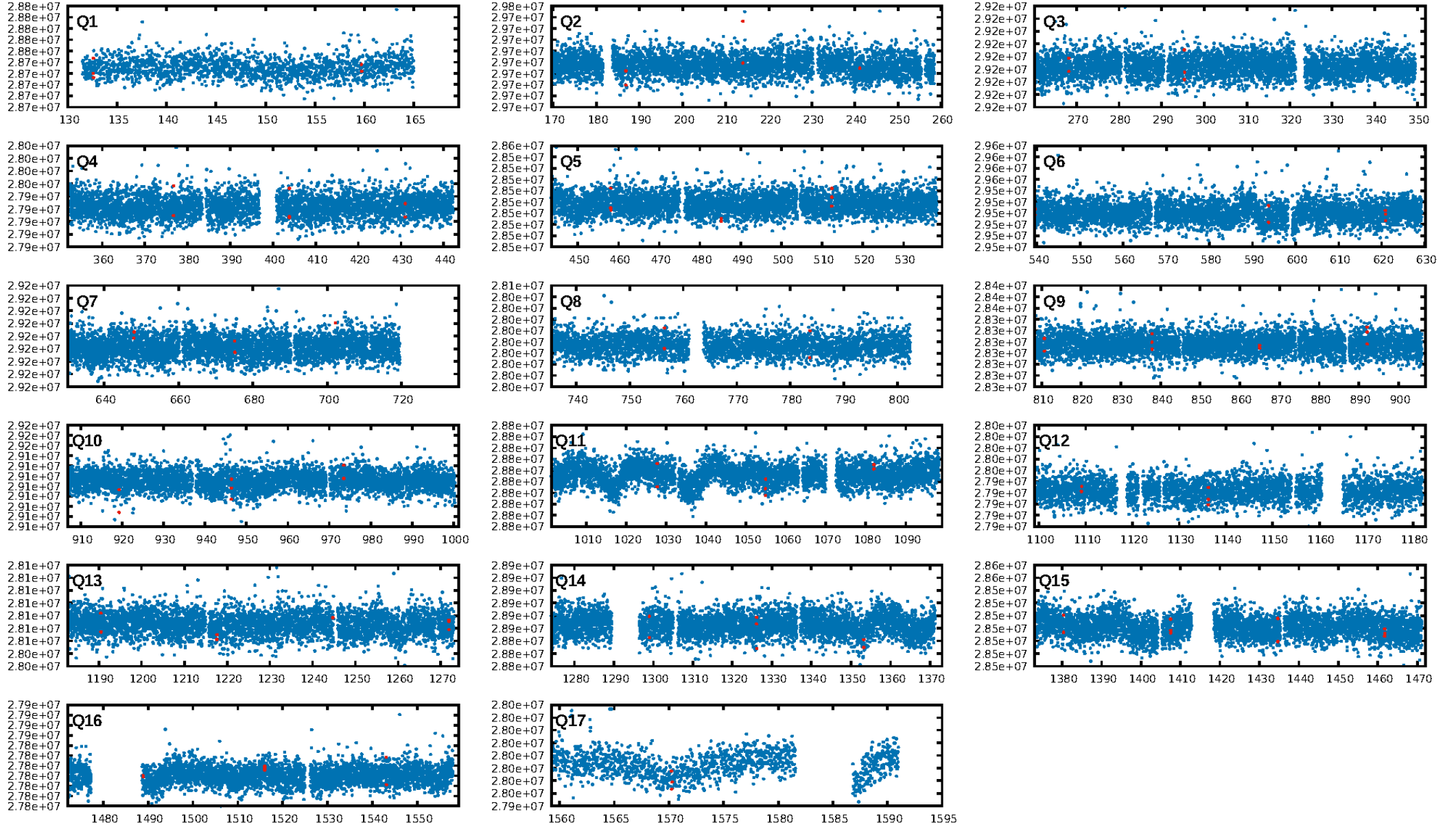
KIC: 6527579 Candidate: 4 of 4 Period: 27.126 d



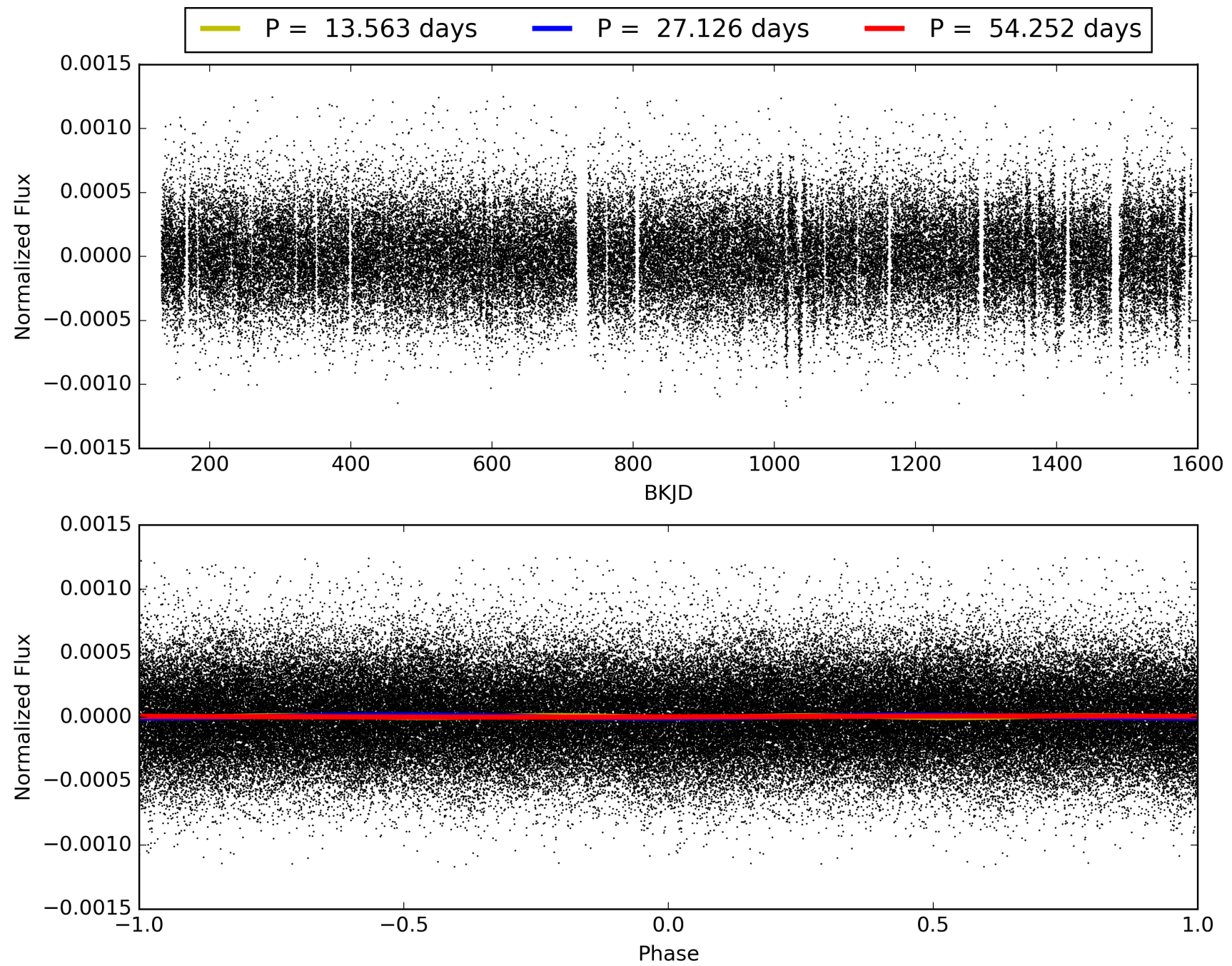
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 04:46:28 Z

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

TCE 006527579-04, PDC Light Curves

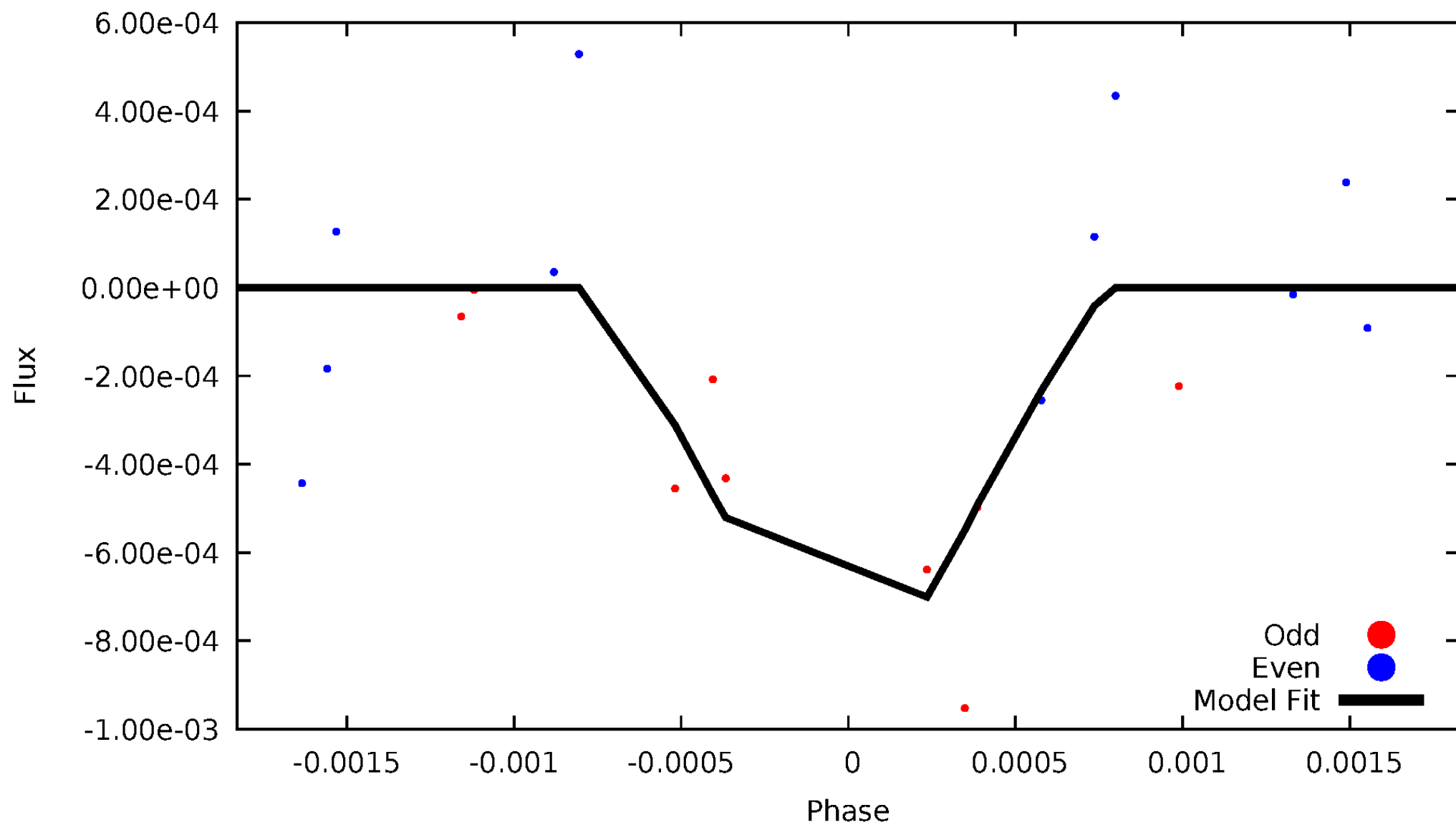


TCE 006527579-04



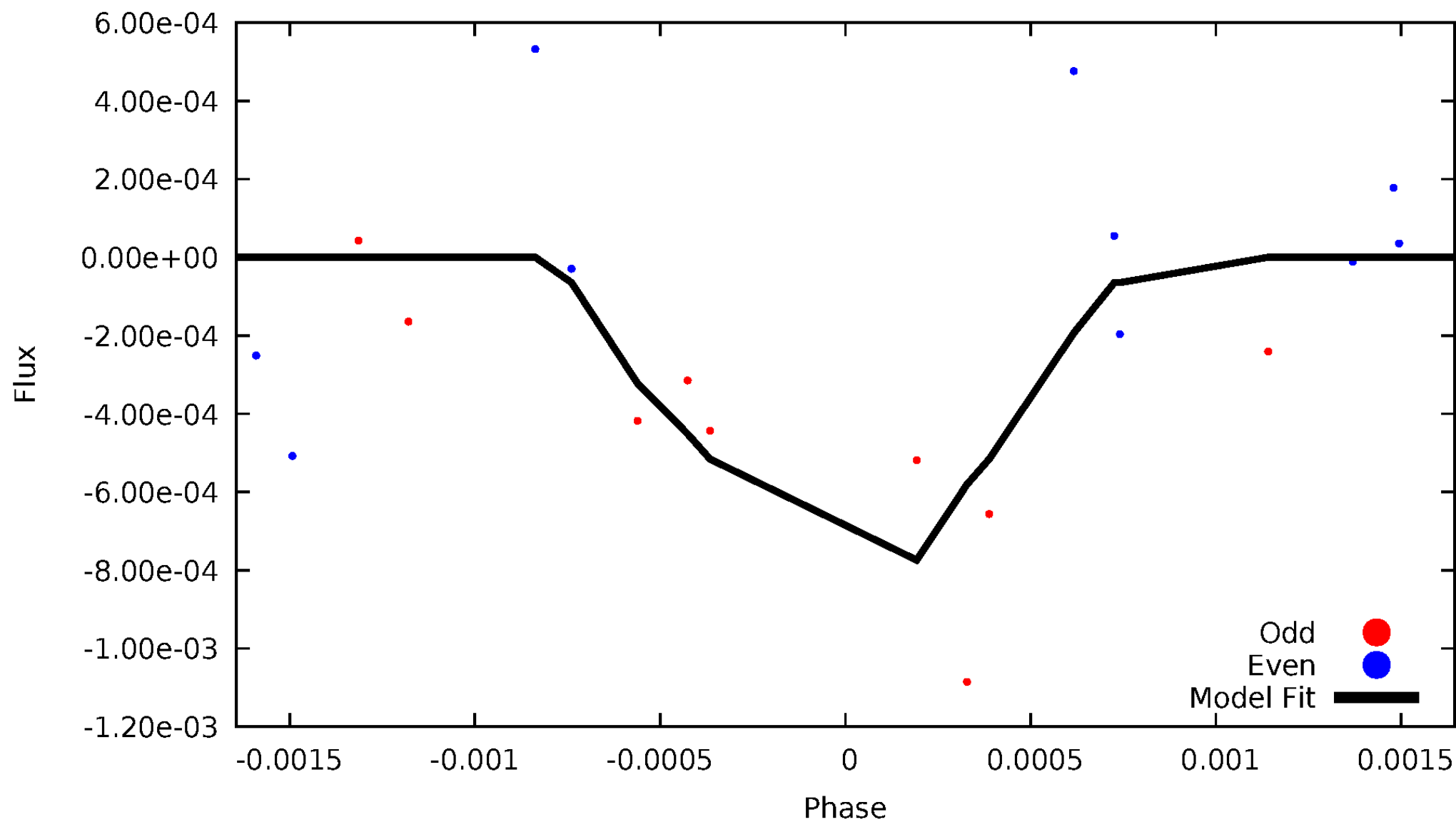
DV Odd/Even

TCE 006527579-04



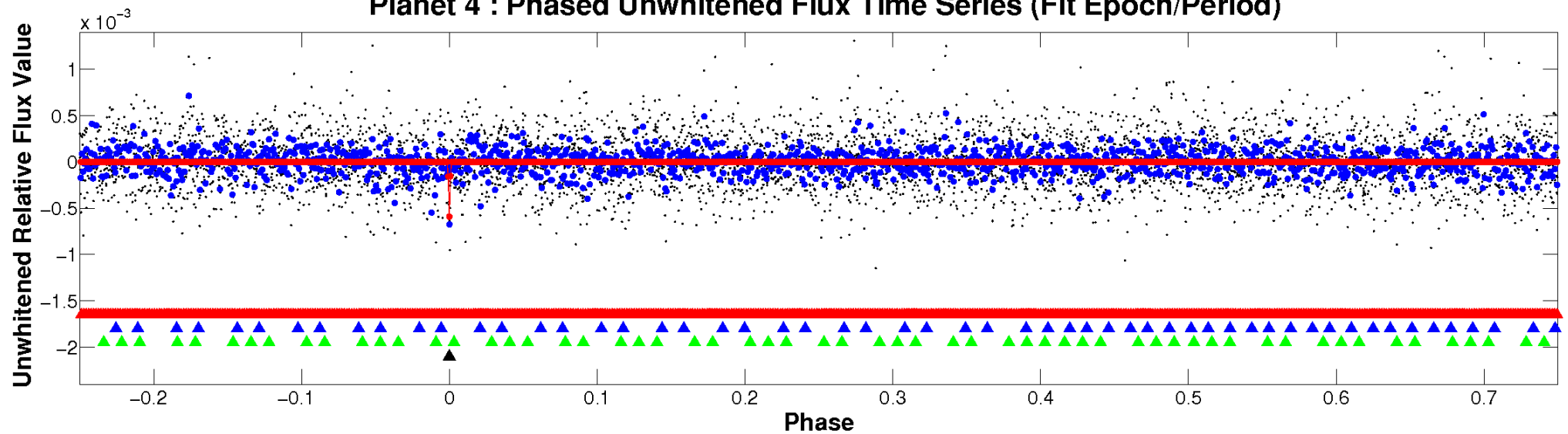
ALT Odd/Even

TCE 006527579-04

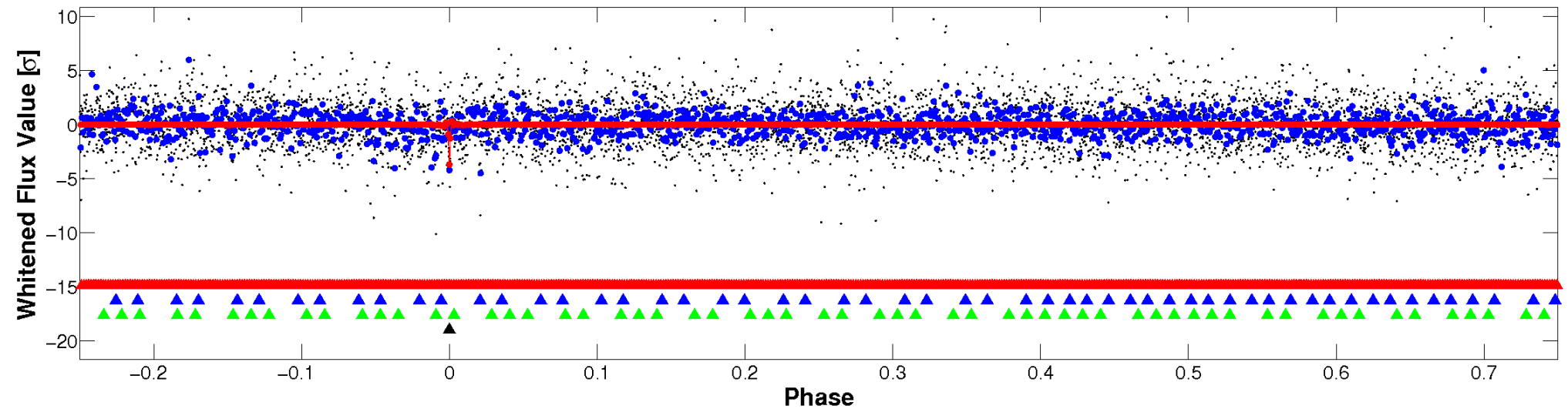


Non-Whitened Vs. Whitened Light Curve

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

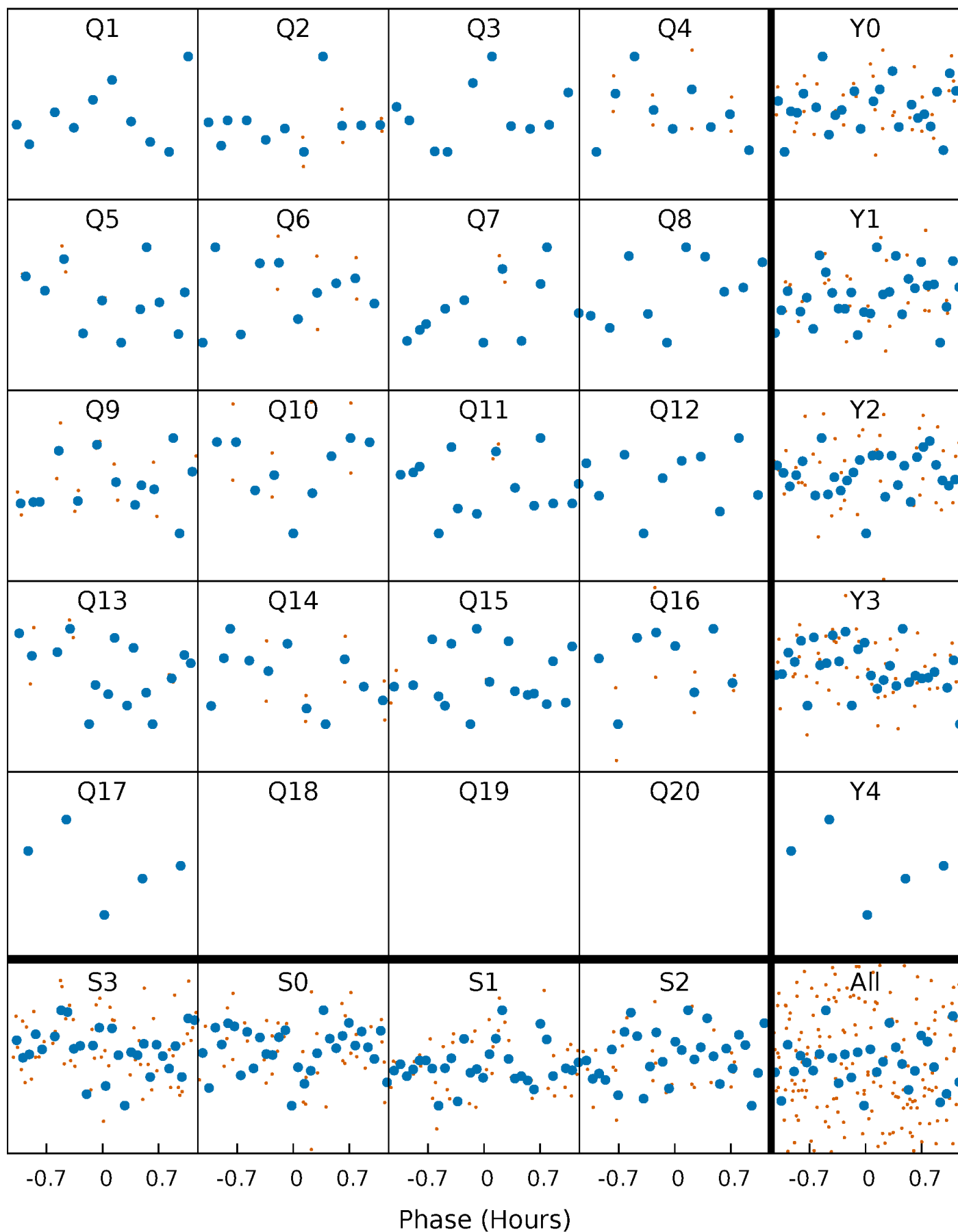


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



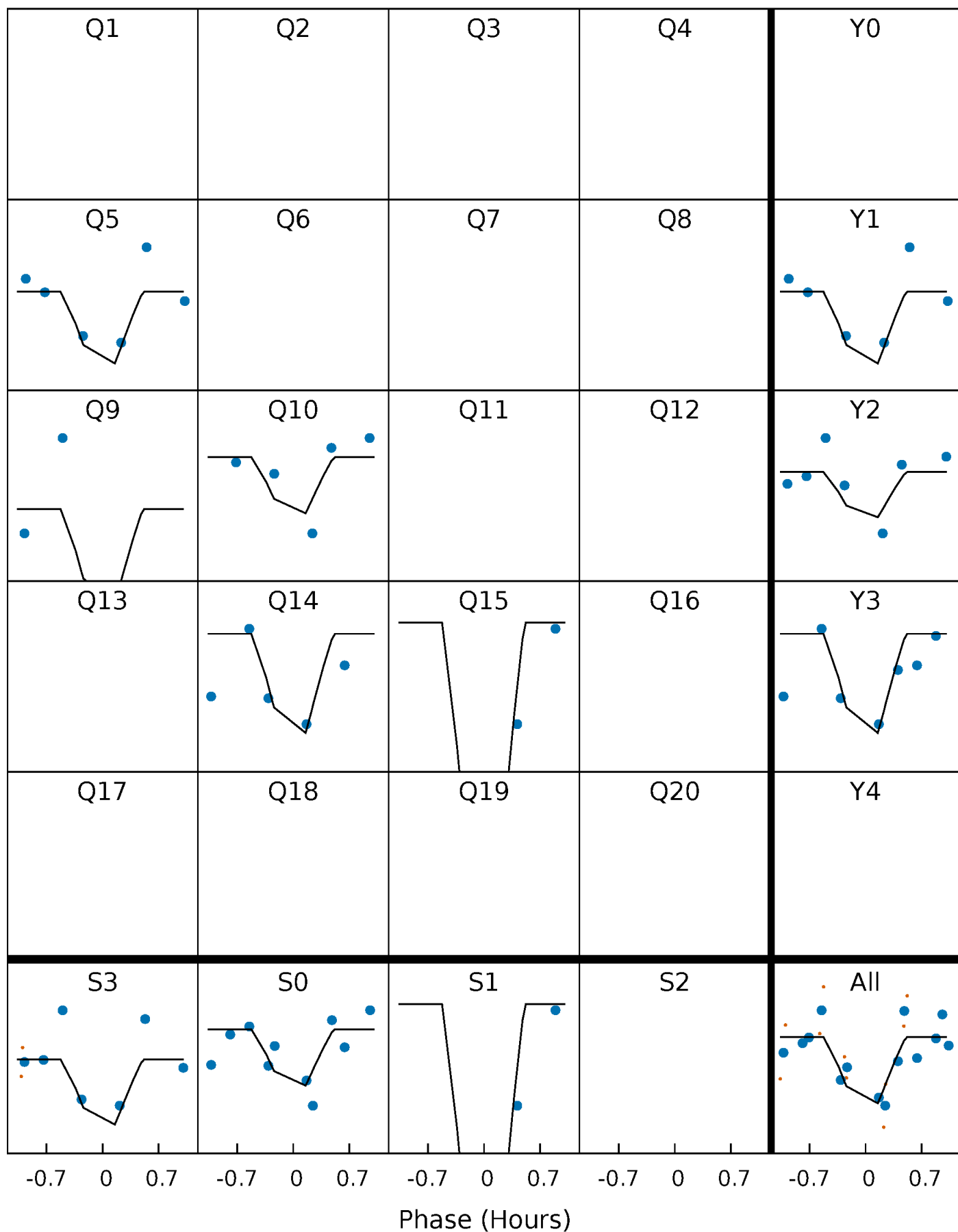
PDC Quarter-Phased Transit Curves

TCE 006527579-04 P= 27.125818 Days $T_0=132.591456$ (BKJD)



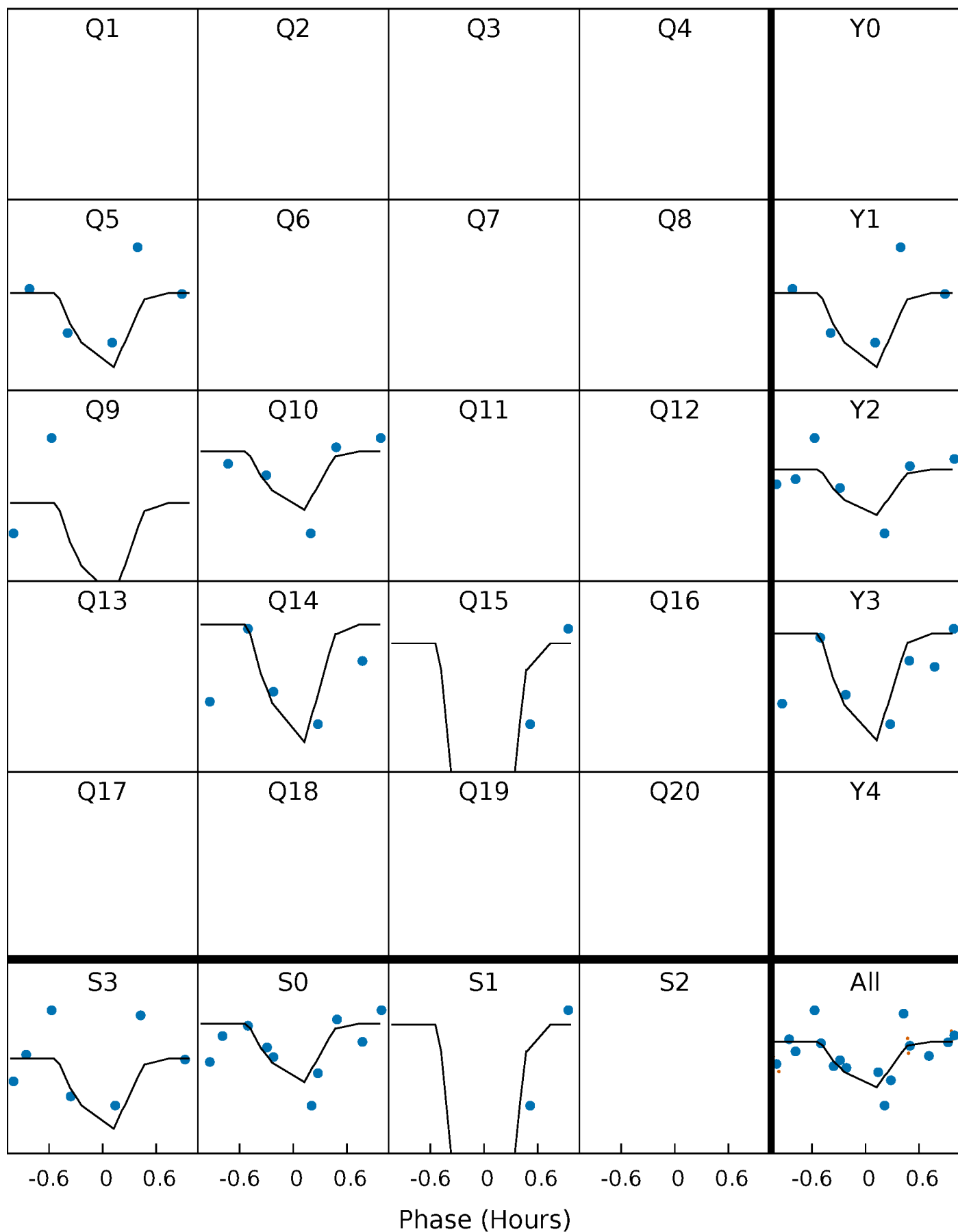
DV Quarter-Phased Transit Curves

TCE 006527579-04 P= 27.125818 Days $T_0=132.591456$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

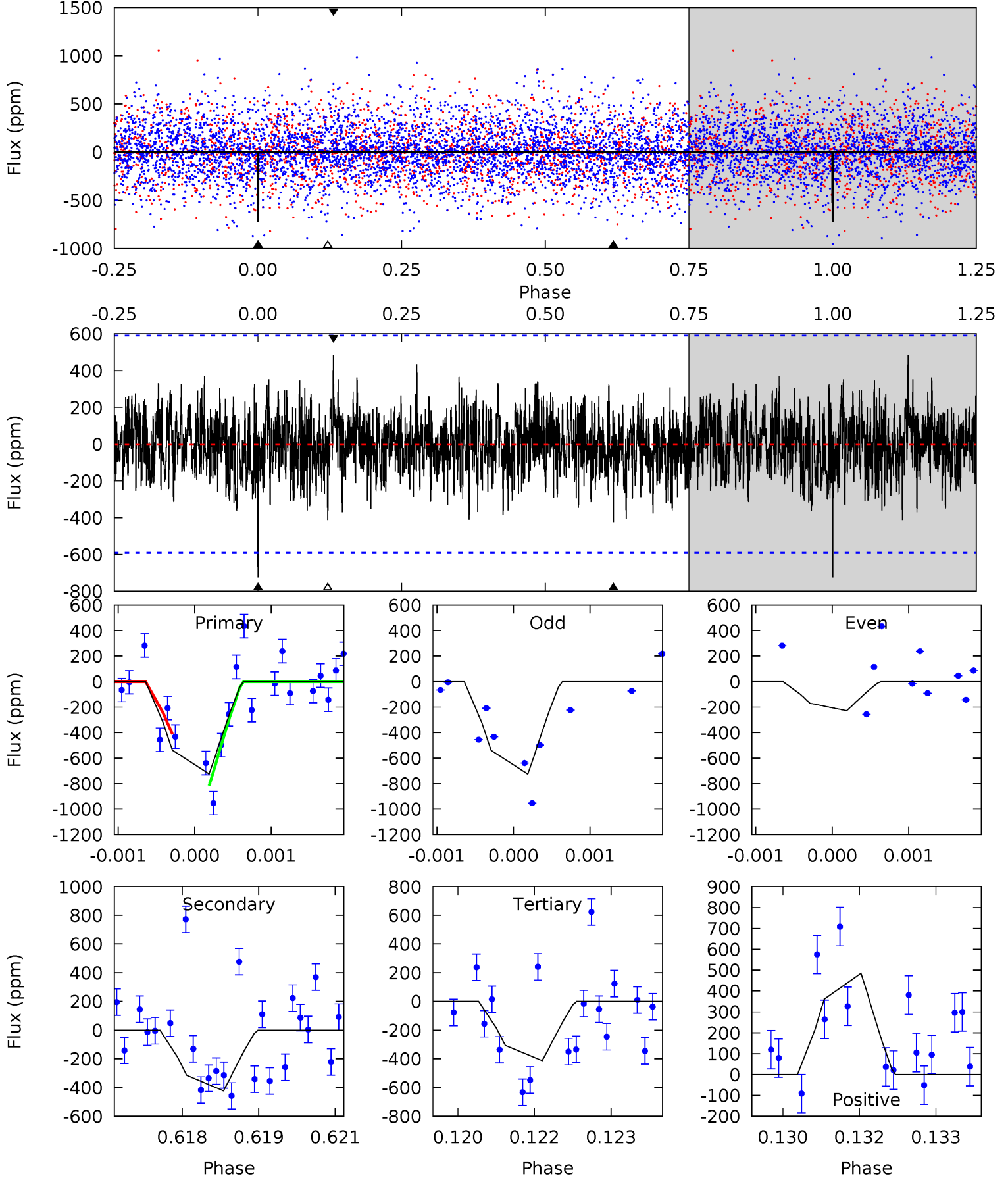
TCE 006527579-04 P= 27.125524 Days $T_0=132.600530$ (BKJD)



DV Model-Shift Uniqueness Test

006527579-04, P = 27.125818 Days, E = 105.465638 Days

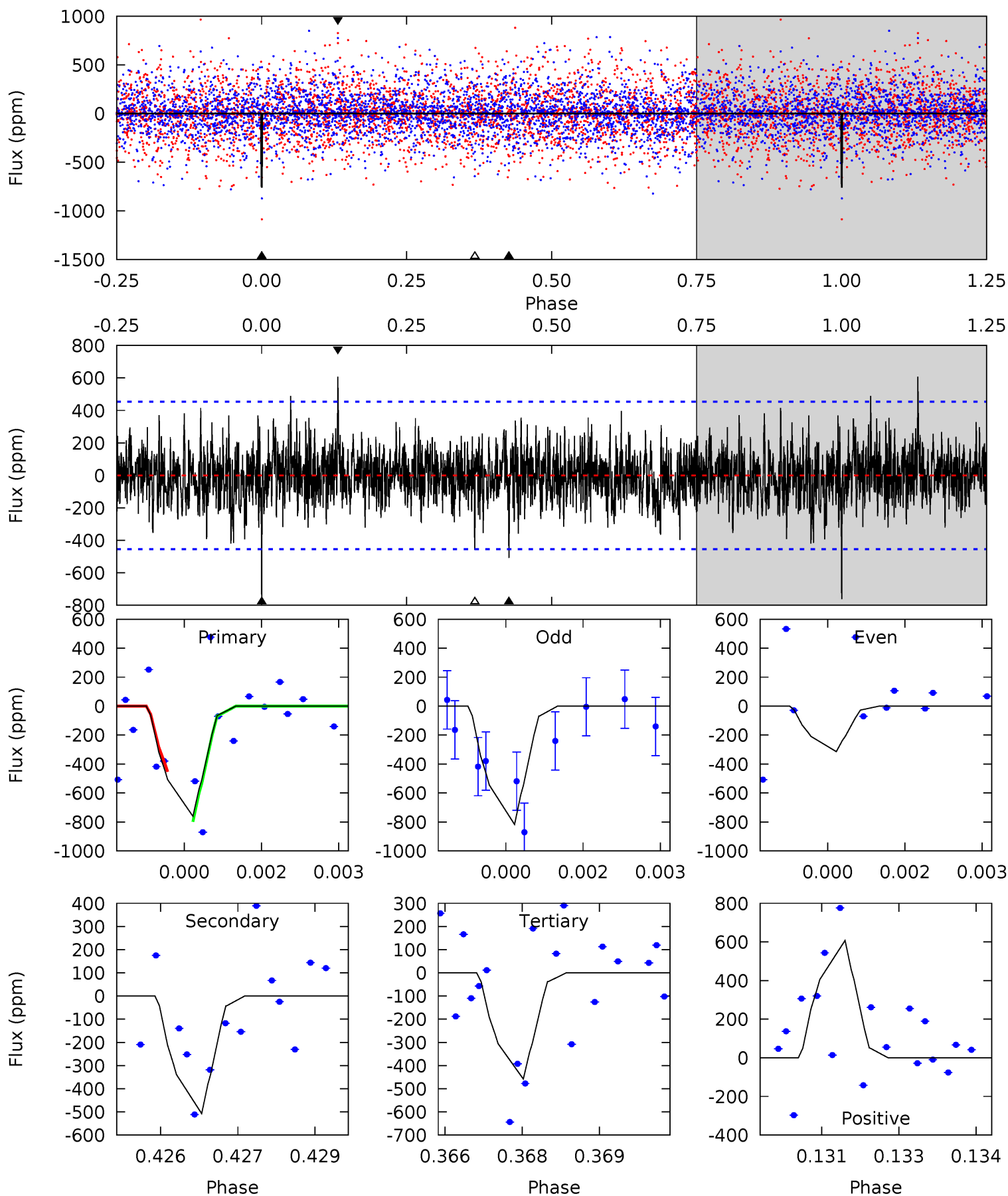
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.62	3.87	3.77	4.44	5.41	3.23	1.20	2.85	2.18	0.09	-0.57	2.23	1.03	0.40	1.76



Alt Model-Shift Uniqueness Test

006527579-04, P = 27.125524 Days, E = 105.475006 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.97	5.99	5.40	7.17	5.36	3.14	1.50	3.57	1.81	0.58	-1.18	2.90	1.02	0.44	1.78



Stellar Parameters For KIC 006527579

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6153^{+171}_{-214}	$4.471^{+0.050}_{-0.200}$	$-0.140^{+0.250}_{-0.300}$	$0.993^{+0.286}_{-0.102}$	$1.065^{+0.139}_{-0.139}$	$1.531^{+0.404}_{-0.769}$
	+3%/-3%	+1%/-4%	+179%/-214%	+29%/-10%	+13%/-13%	+26%/-50%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006527579-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-423 ± 109	$9.72^{+10.23}_{-6.77}$	906^{+62}_{-43}	3488^{+1950}_{-681}	79^{+752}_{-61}
Alt.	-507 ± 85	$9.70^{+9.64}_{-6.73}$	907^{+62}_{-43}	3604^{+2146}_{-671}	94^{+862}_{-70}

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

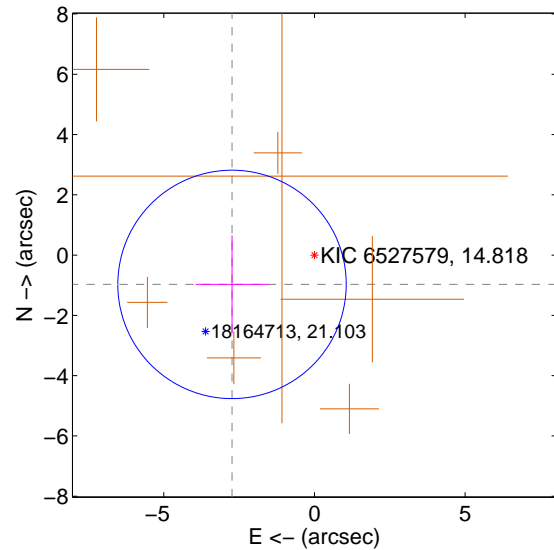
Supplemental centroid analysis for 006527579-04. Kepler magnitude: 14.82. Transit SNR 8.53

There are 0 quarters with good PRF difference image offsets

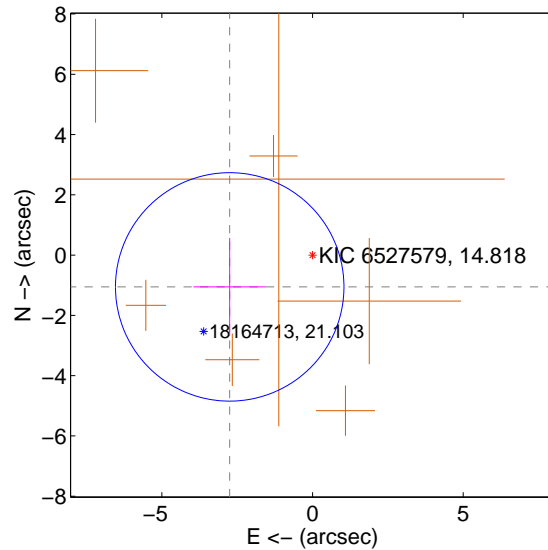
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.902 ± 1.263	2.30	2.735 ± 1.209	-0.972 ± 1.626
PRF-fit source offset from KIC position	2.943 ± 1.263	2.33	2.748 ± 1.201	-1.055 ± 1.623
photometric centroid source offset	0.99 ± 0.71	1.40	-0.24 ± 0.72	0.96 ± 0.71

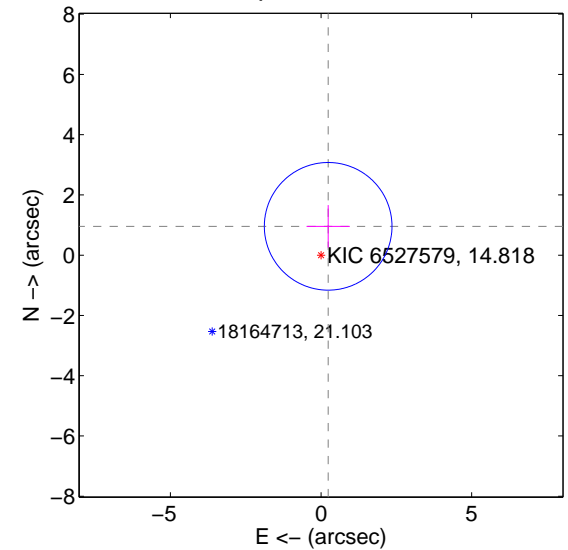
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

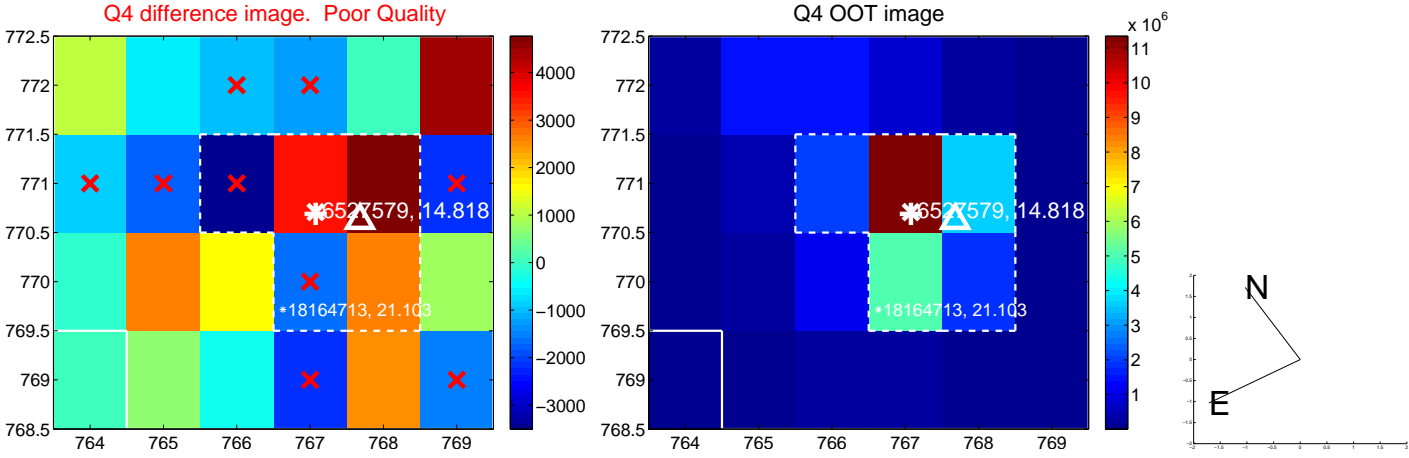
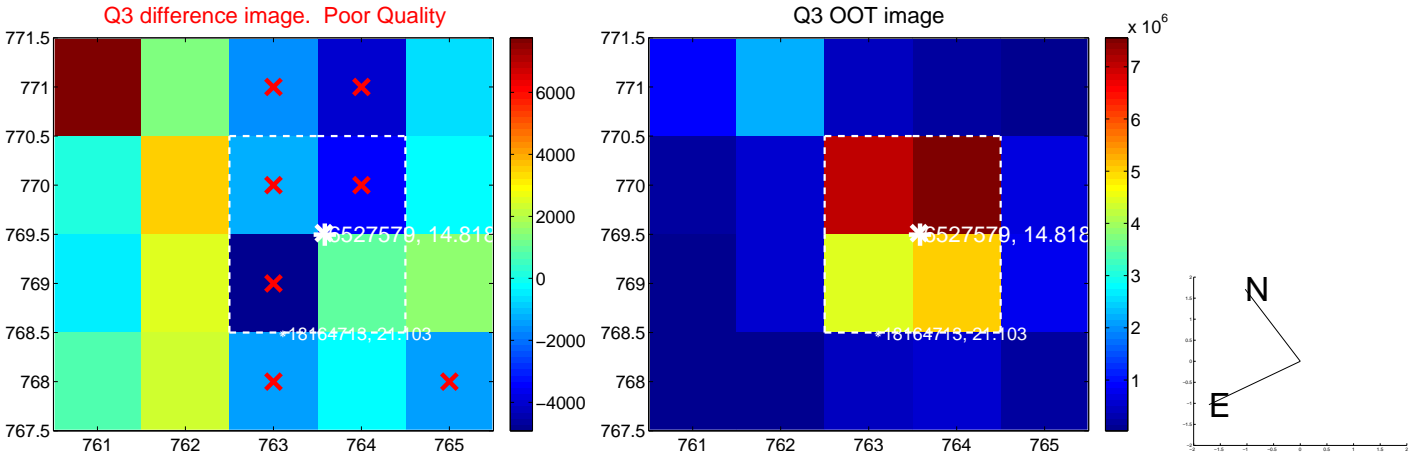
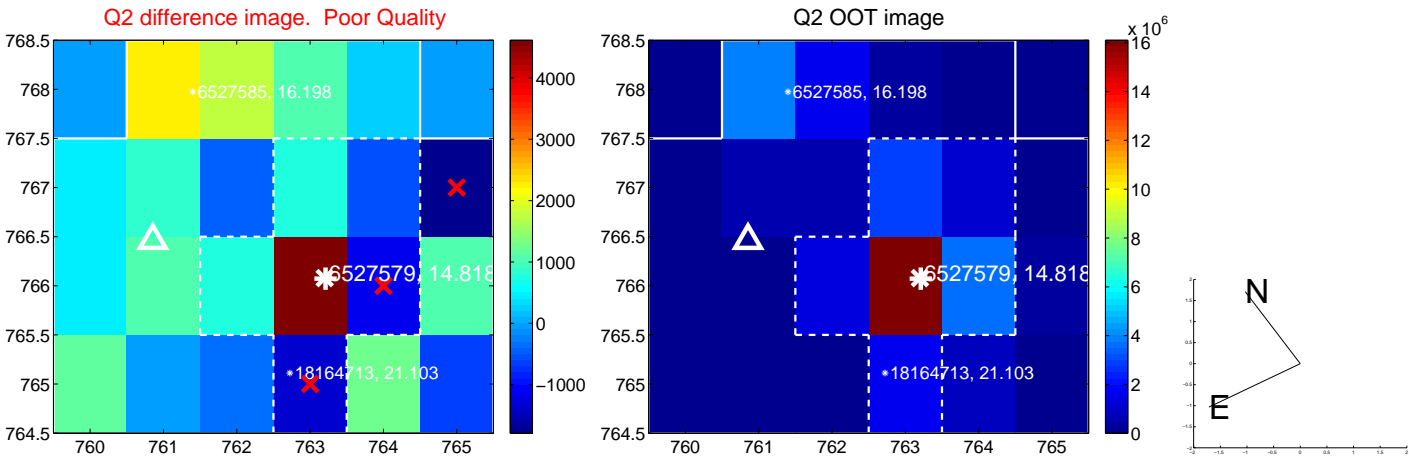
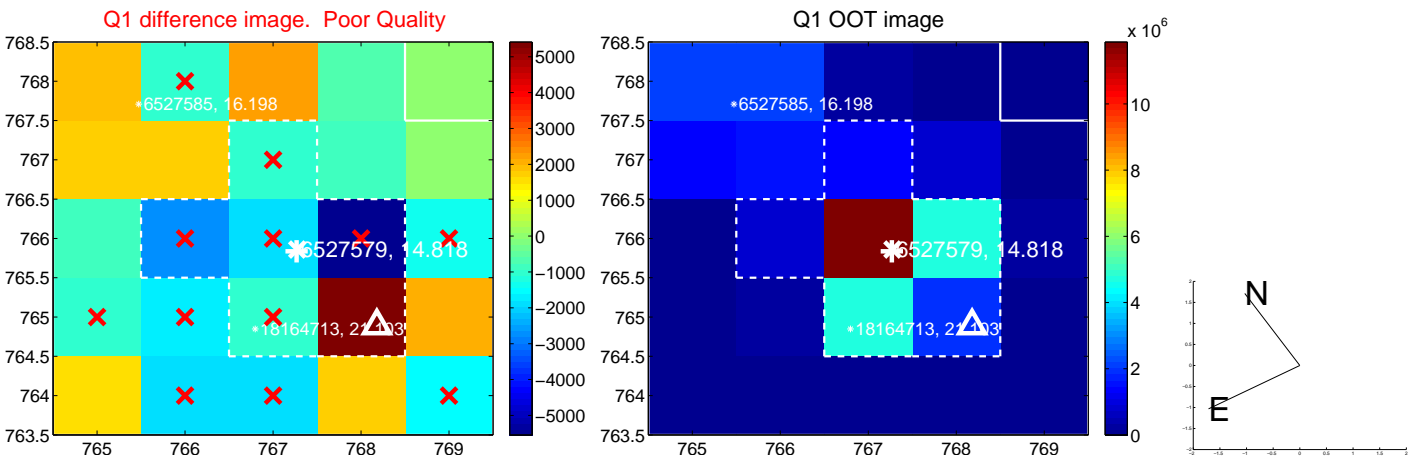


offset from photometric centroids

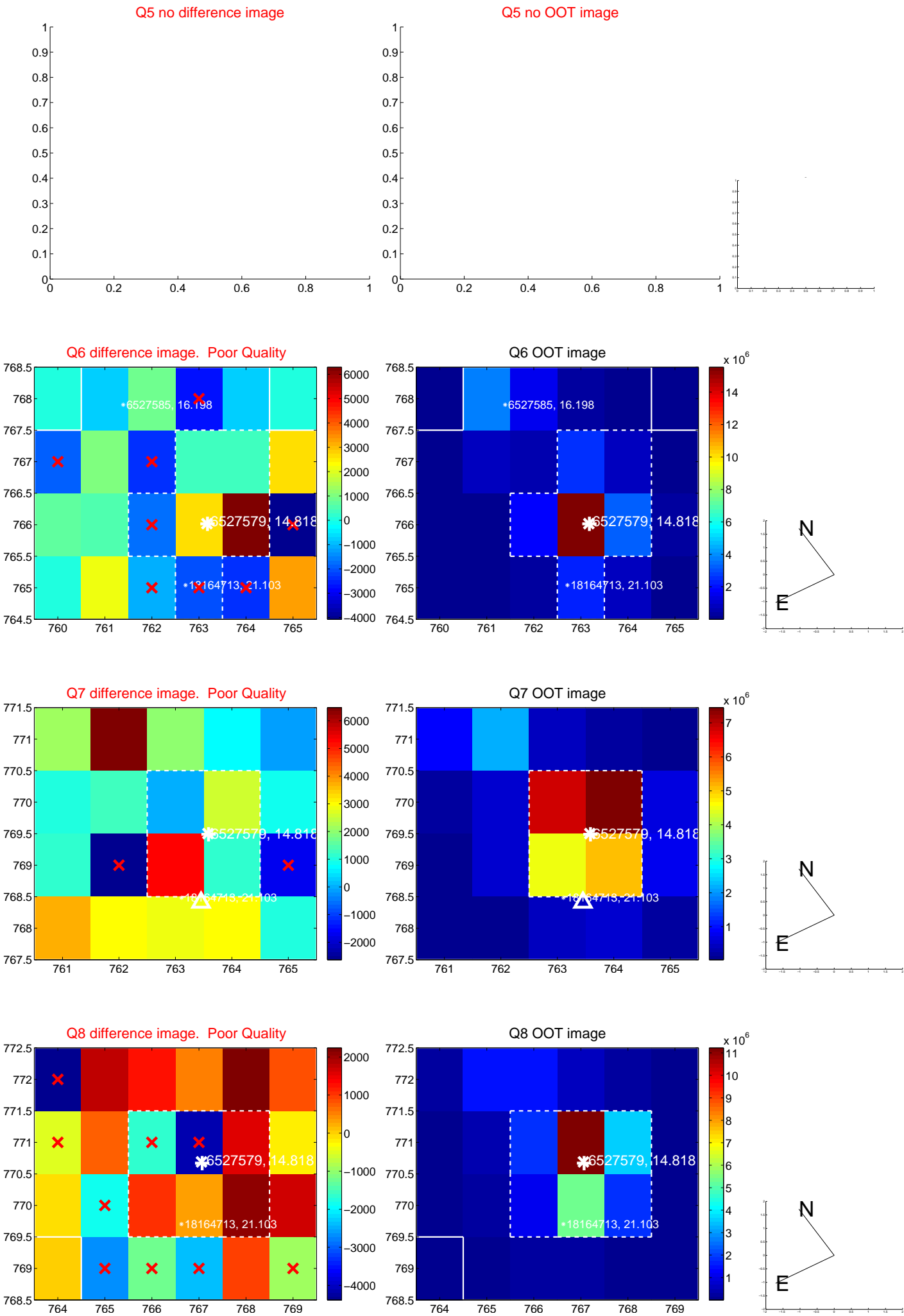


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

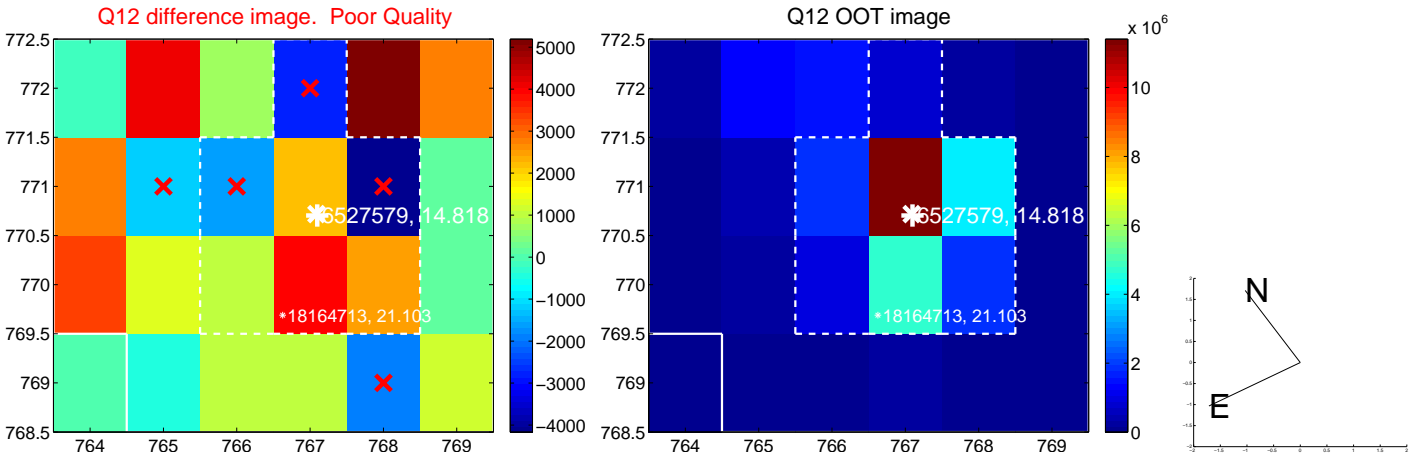
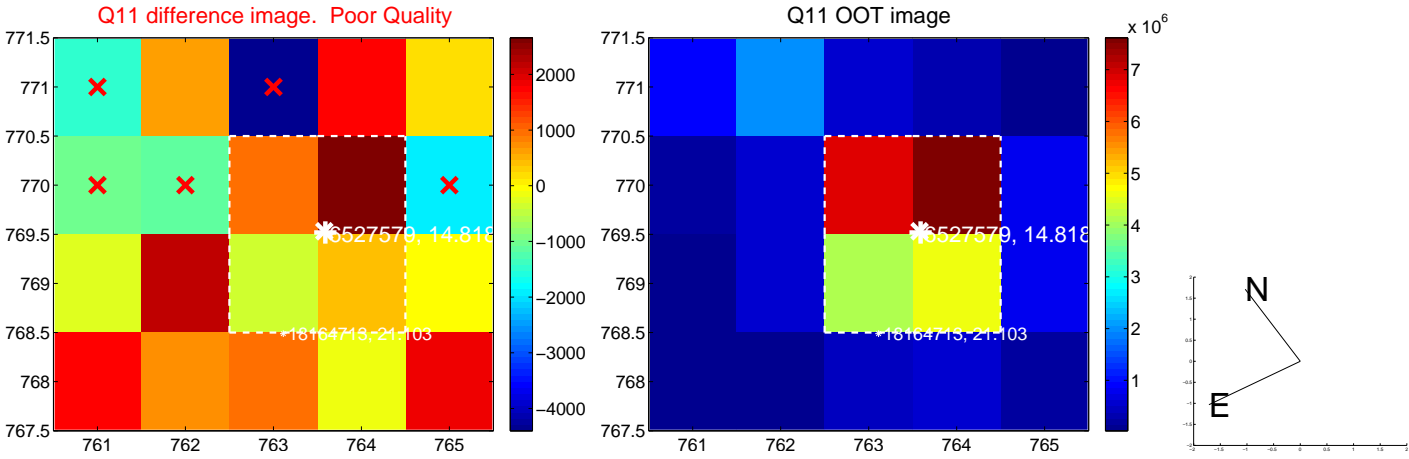
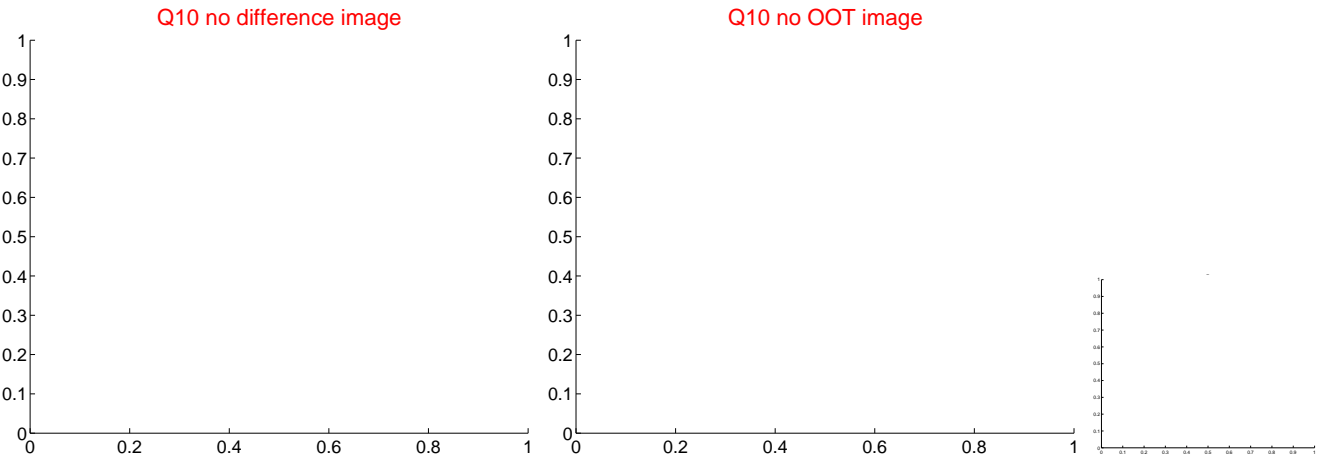
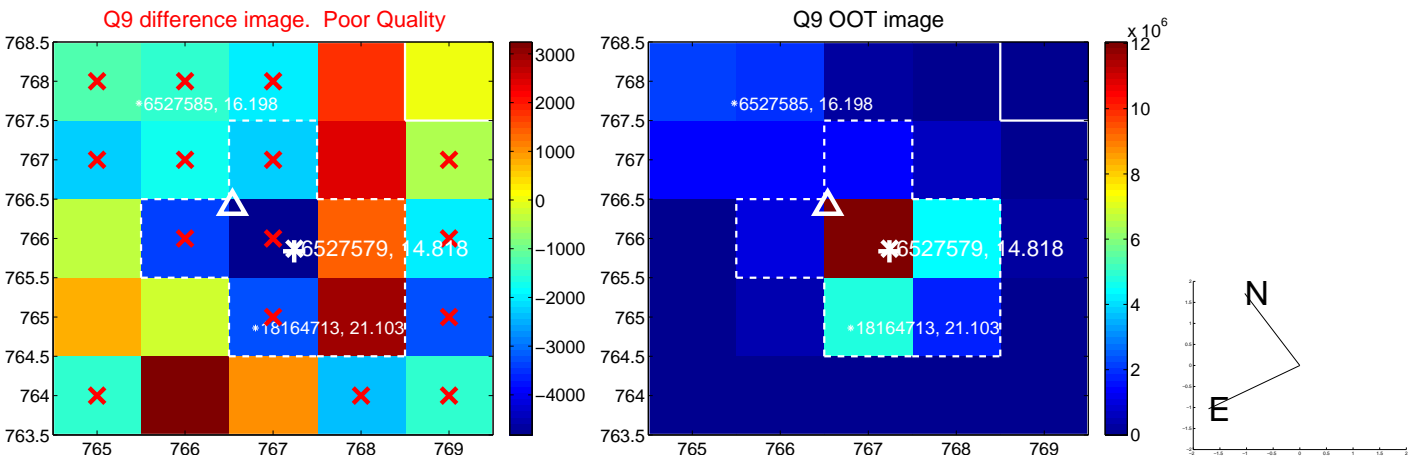
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



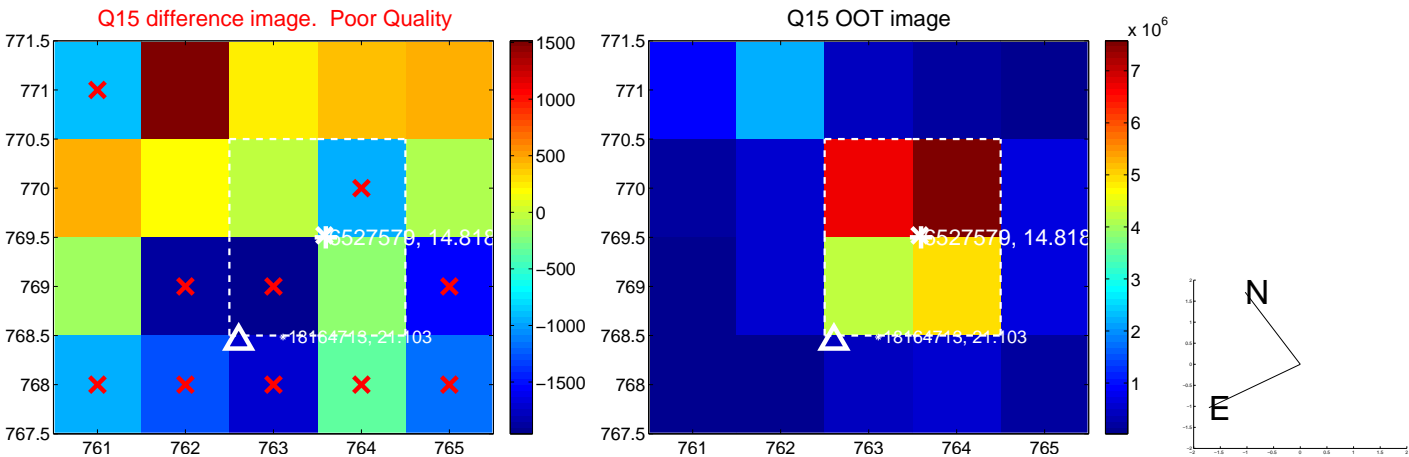
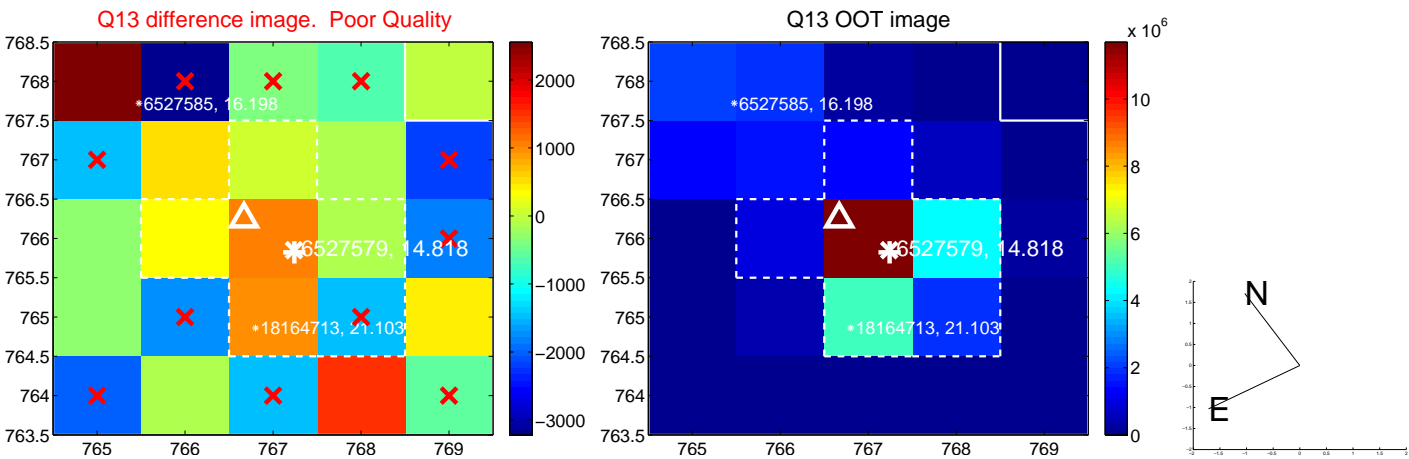
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



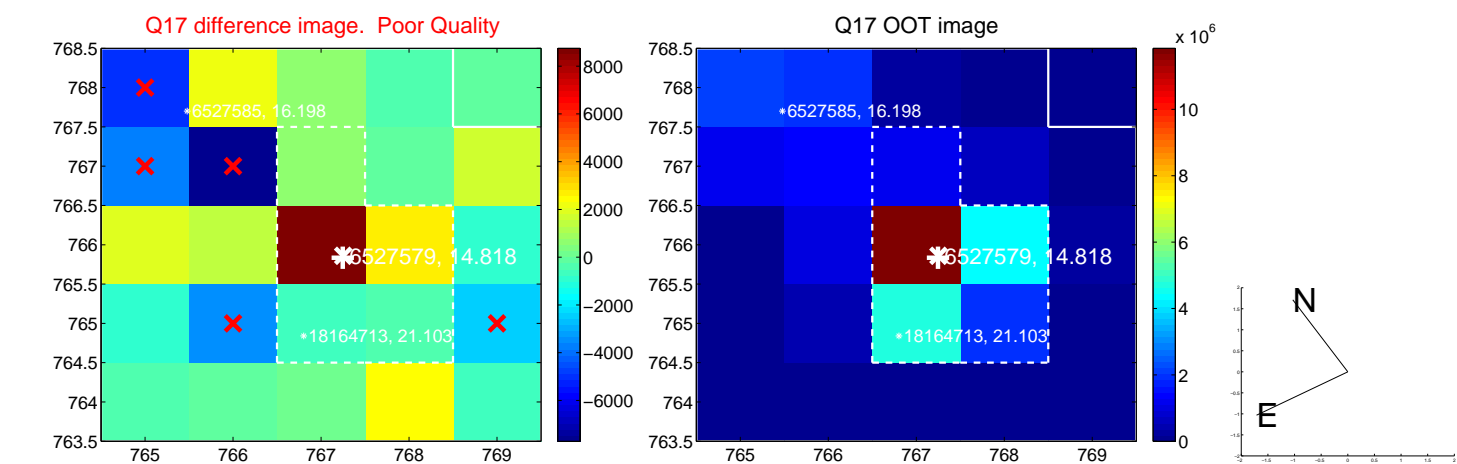
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



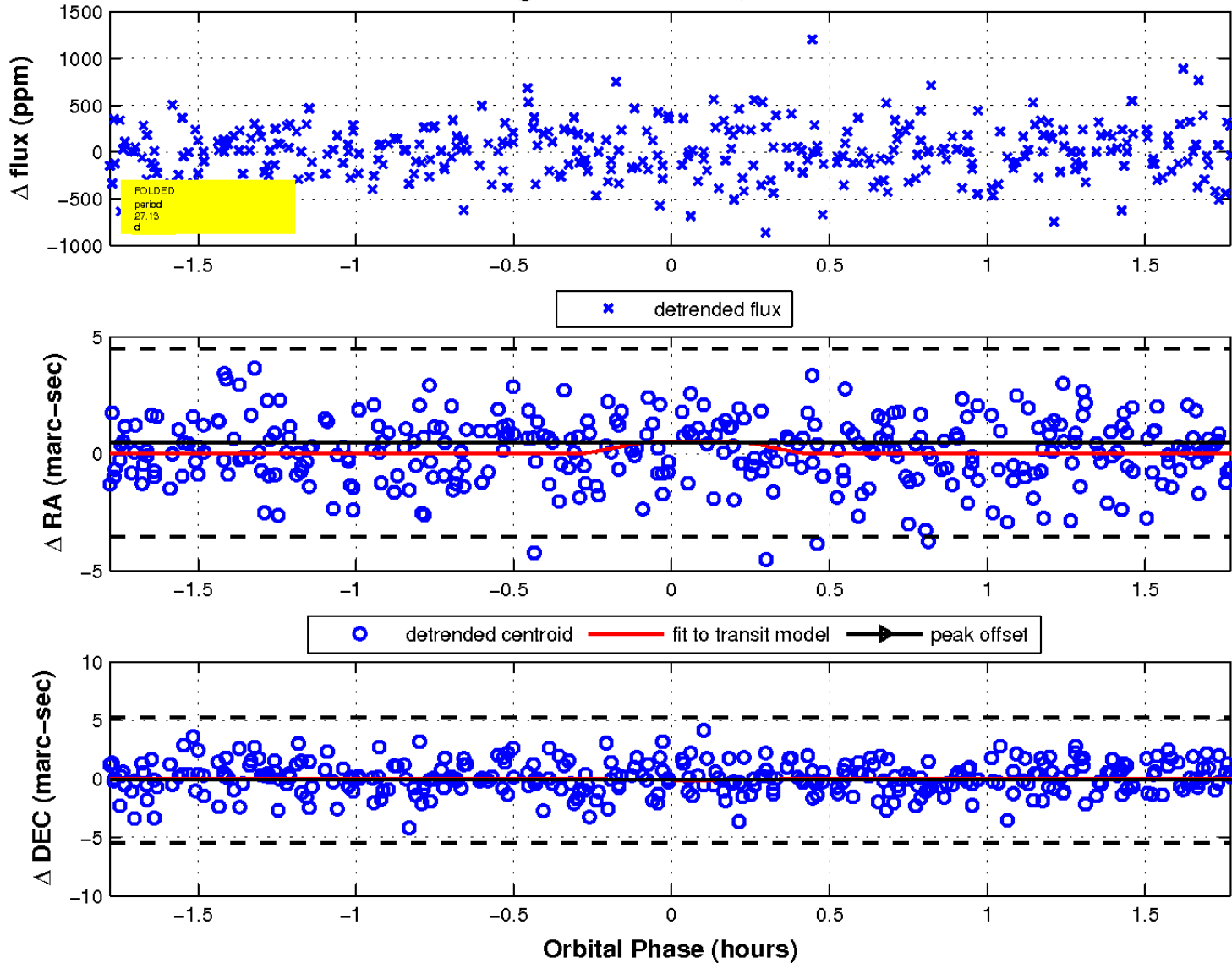
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 4 of 4



UKIRT Image

Declination

