

KIC 011044779

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})
011044779-01	OBS	3327.01	15.608620	144.303022	34121.8	6.658	531.1	455.0	0.83	5569	25.17	41.80
011044779-02	OBS	No	15.608612	139.923351	11406.2	4.650	186.2	180.6	0.83	5569	14.23	41.80
011044779-03	OBS	No	162.081889	288.796107	1772.5	4.228	9.1	6.8	0.83	5569	5.92	1.84

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011044779-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE—CENT_KIC_POS
011044779-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_KIC_POS
011044779-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS—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.

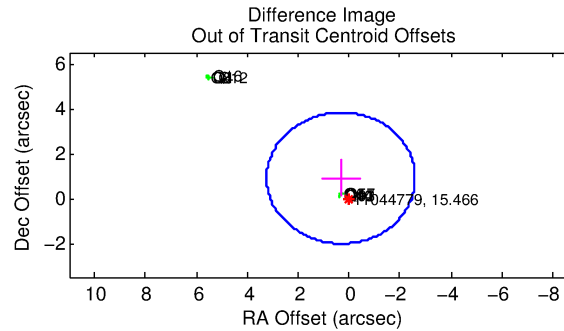
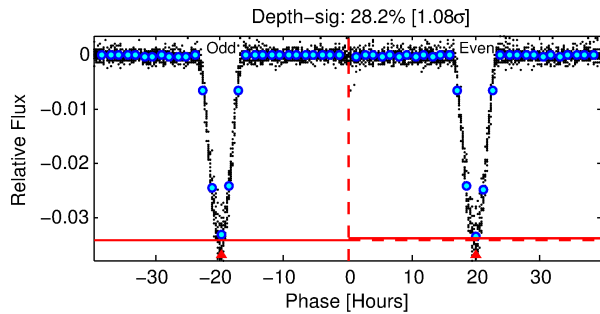
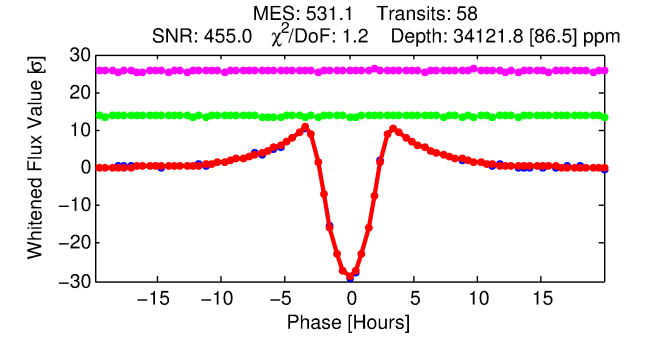
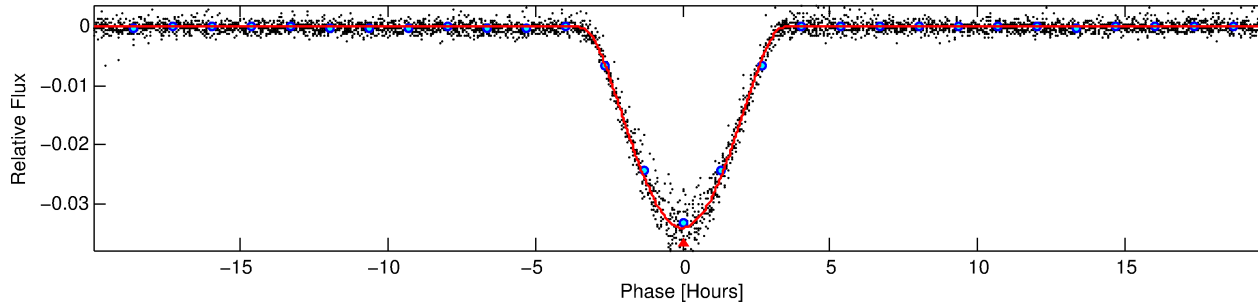
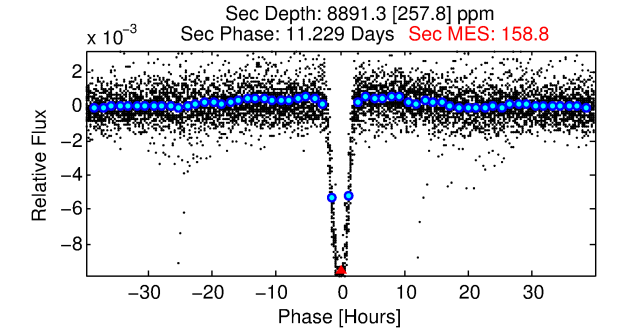
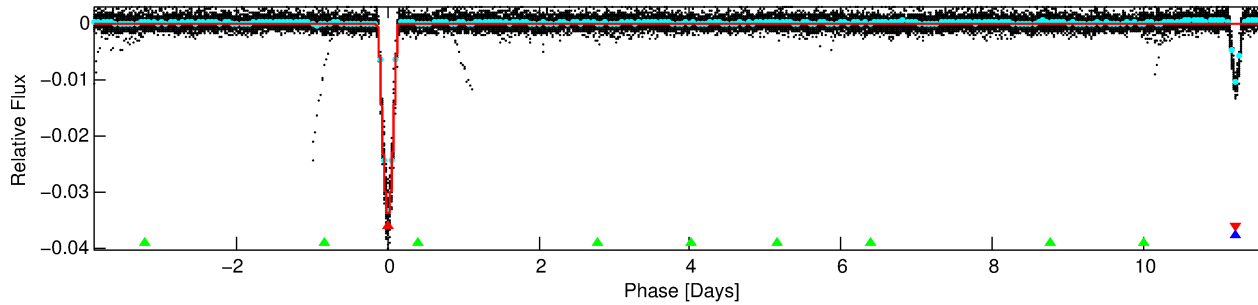
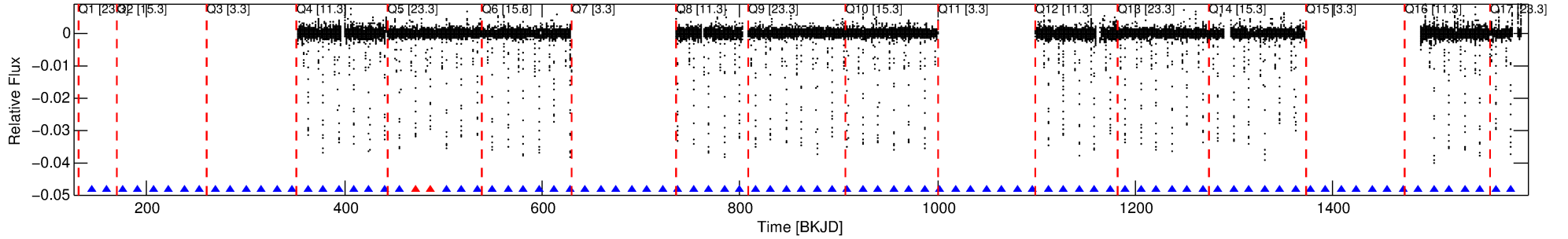
Ephemeris Match Information For 011044779-01

No Significant Match Found

DV One-Page Summary

KIC: 11044779 Candidate: 1 of 3 Period: 15.609 d
KOI: K03327.01 Corr: 0.996

Kp: 15.47 R*: 0.83 Rs Teff: 5569.0 K Logg: 4.57 Fe/H: -0.080



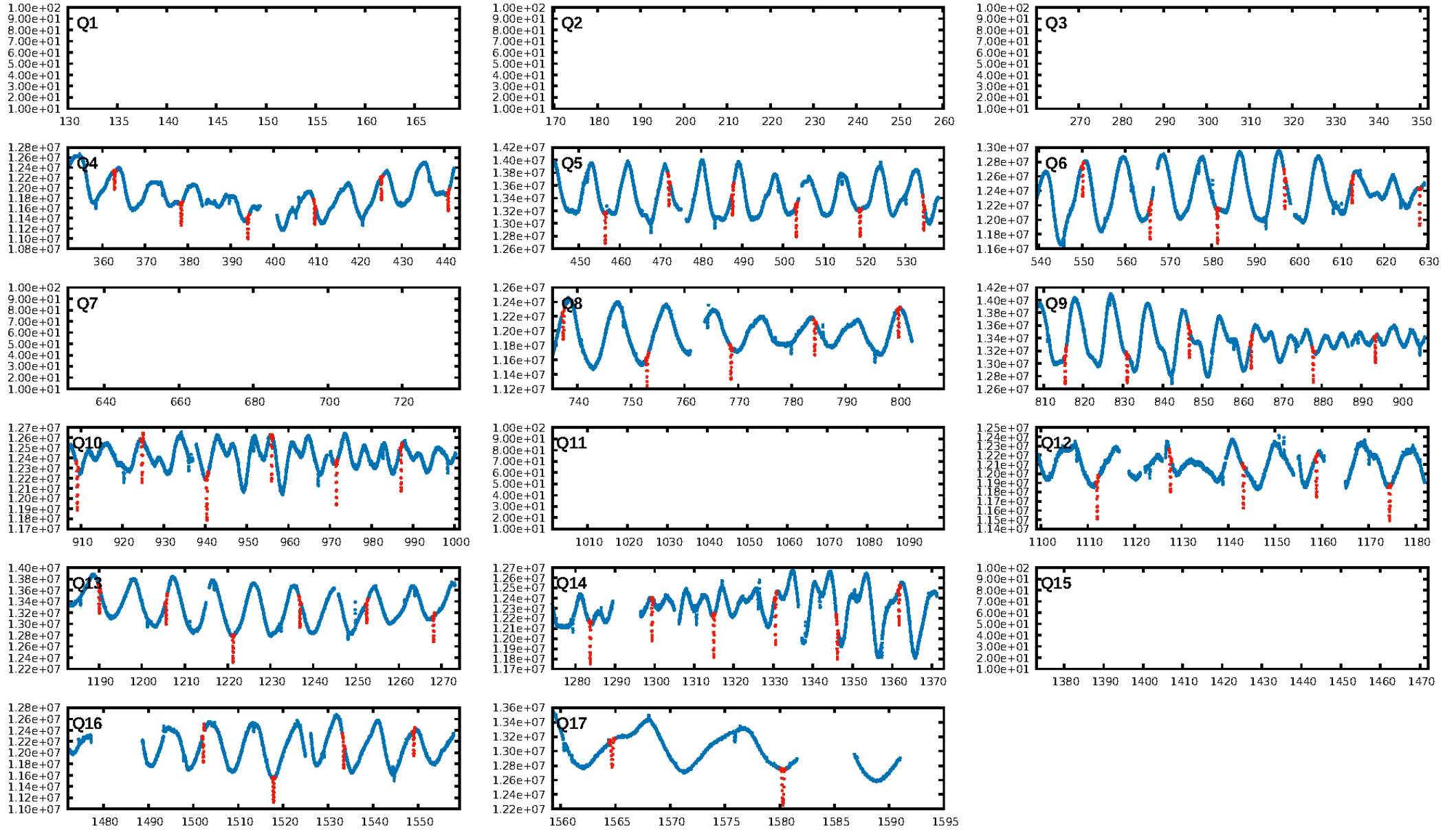
DV Fit Results:

Period = 15.60862 [0.00001] d
Epoch = 144.3030 [0.0003] BKJD
Rp/R* = 0.2782 [0.0258]
a/R* = 14.84 [0.09]
b = 0.98 [0.04]
Seff = 41.80 [13.85]
Teq = 648 [54] K
Rp = 25.17 [6.53] Re
a = 0.1190 [0.0246] AU
Ag = 109.38 [39.11] [2.77σ]
Teffp = 3242 [185] K [13.44σ]

DV Diagnostic Results:

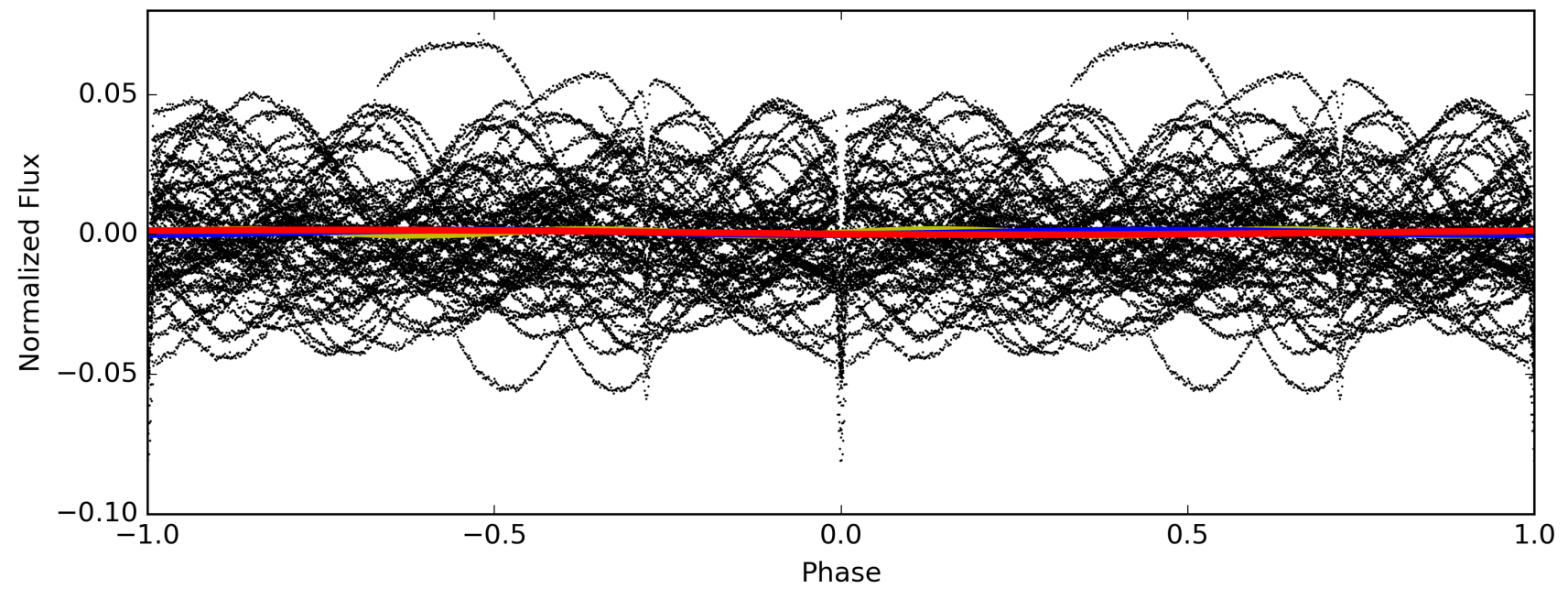
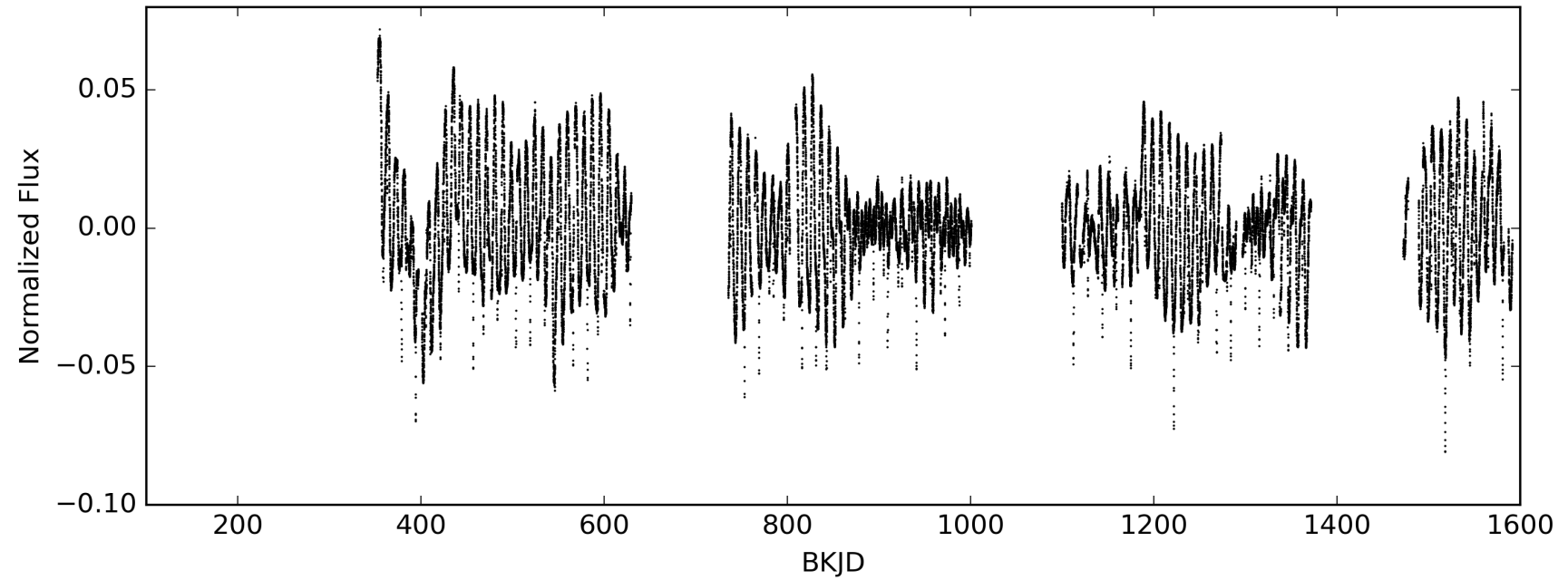
ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [445.73σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 72.3%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 0.96 [54/56]
GhostDiagnostic-chr: 2.385
Centroid-sig: 0.0%
Centroid-so: 1.499 arcsec [66.46σ]
OotOffset-rm: 0.954 arcsec [0.98σ]
KicOffset-rm: 0.180 arcsec [2.60σ]
OotOffset-st: 3/0/4/4 [11]
KicOffset-st: 3/0/4/4 [11]
DiffImageQuality-fgm: 1.00 [11/11]
DiffImageOverlap-fno: 1.00 [11/11]

TCE 011044779-01, PDC Light Curves



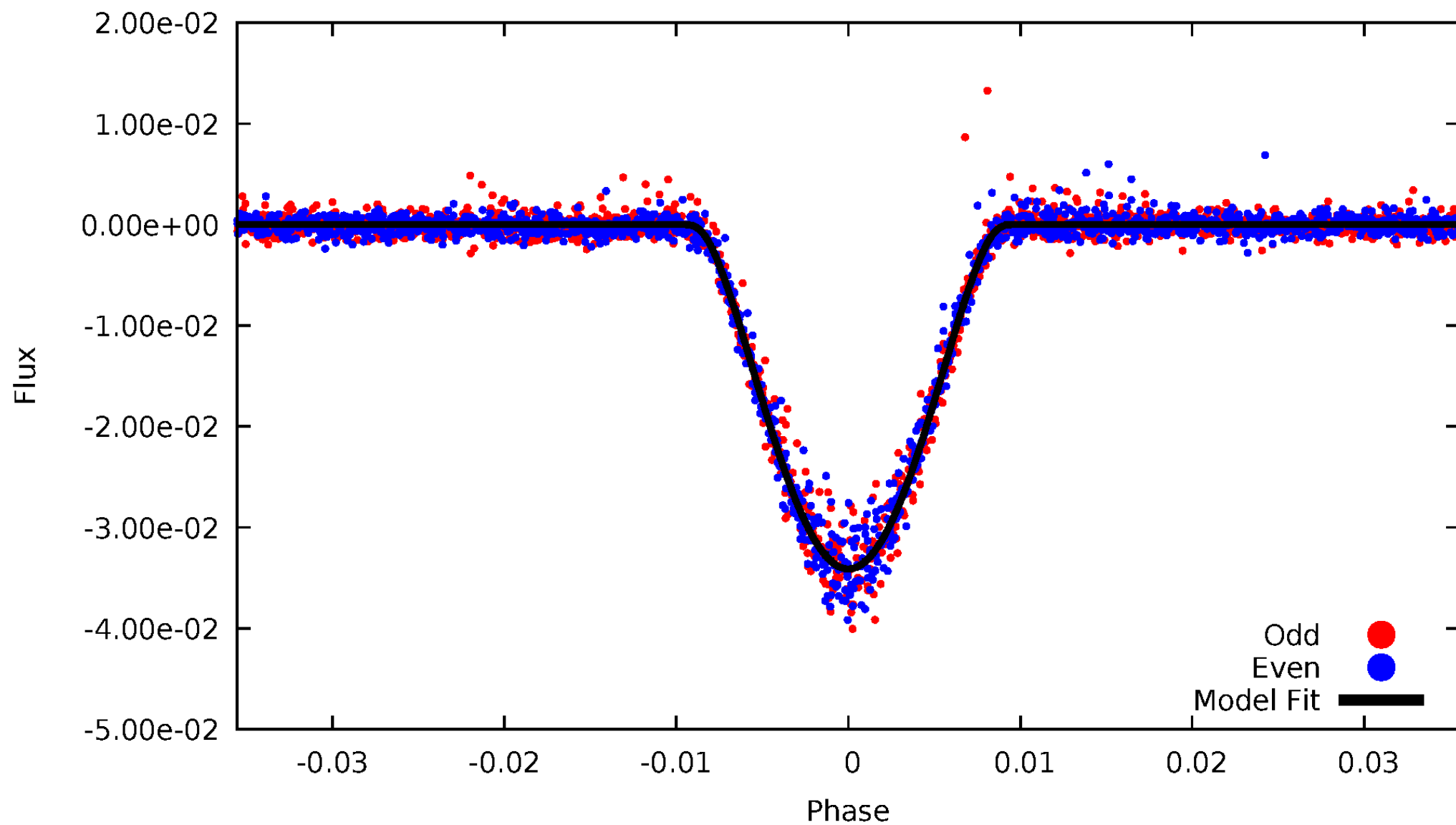
TCE 011044779-01

— P = 7.804 days — P = 15.609 days — P = 31.217 days



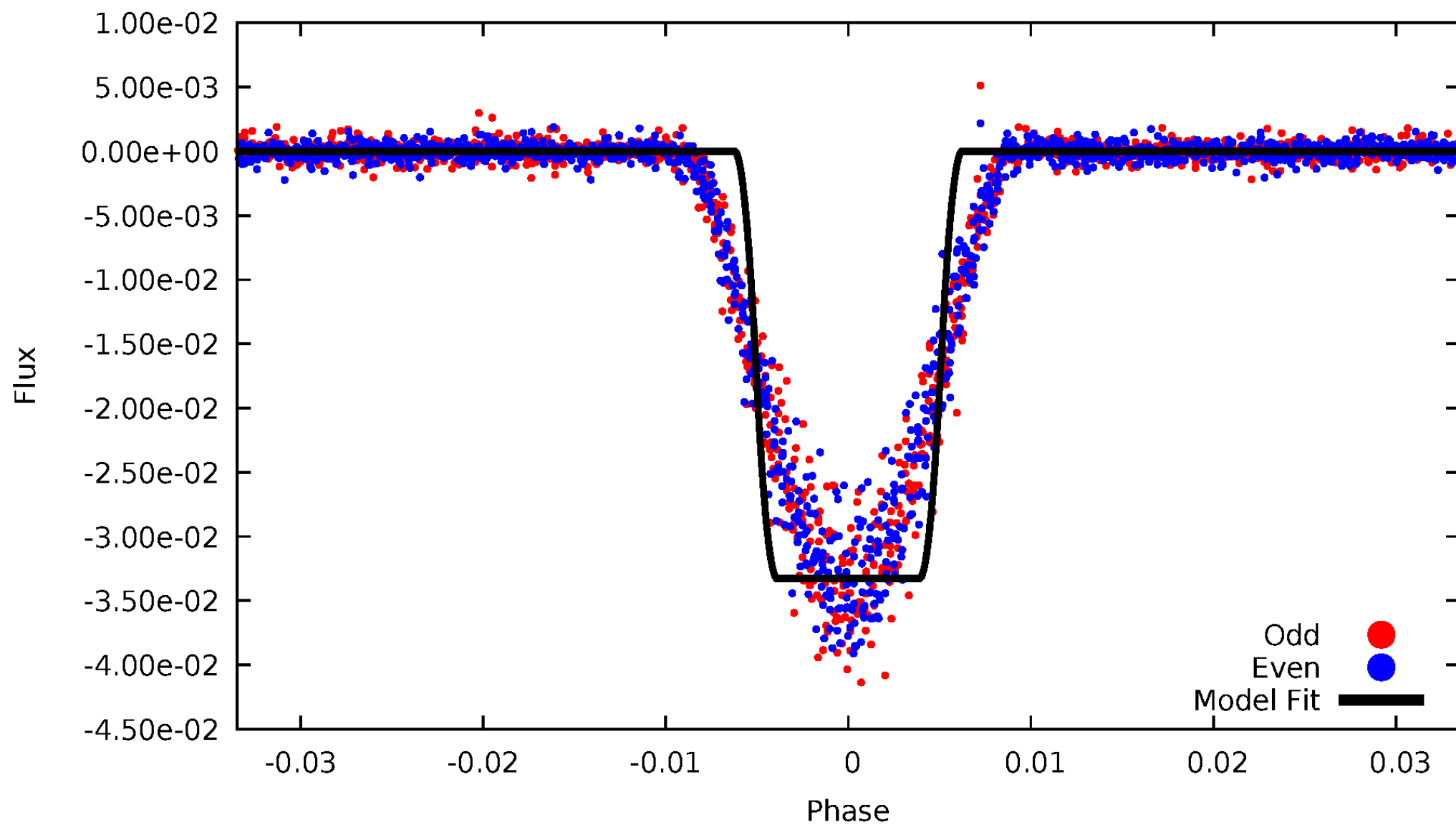
DV Odd/Even

TCE 011044779-01



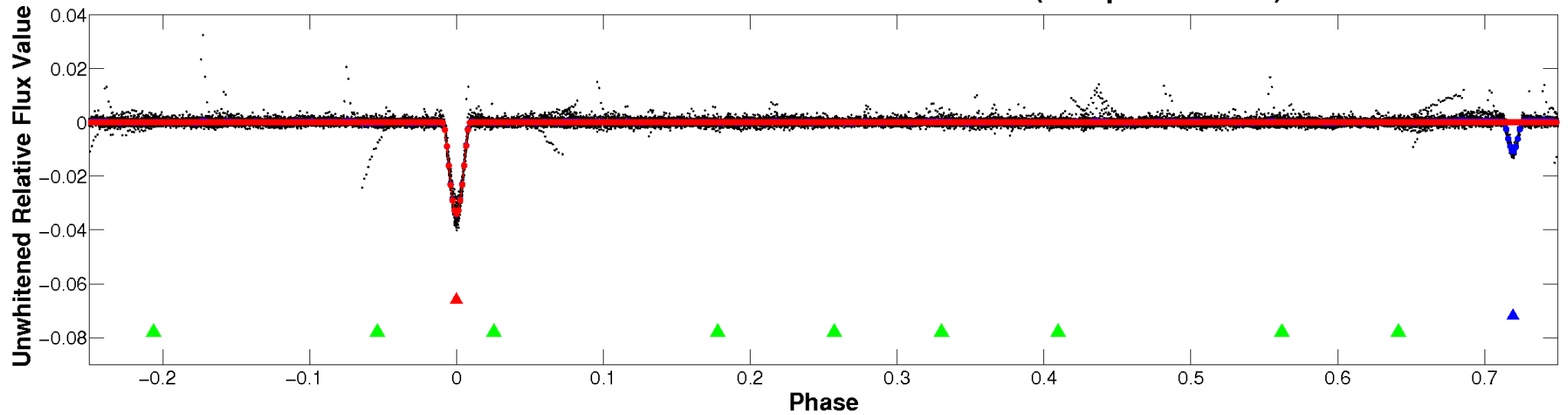
ALT Odd/Even

TCE 011044779-01

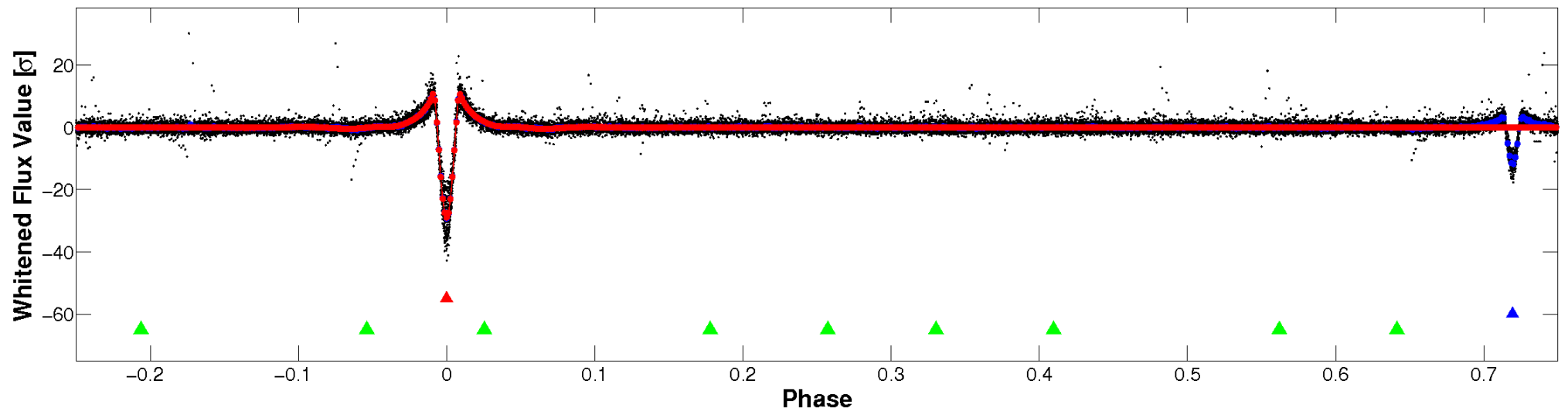


Non-Whitened Vs. Whitened Light Curve

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

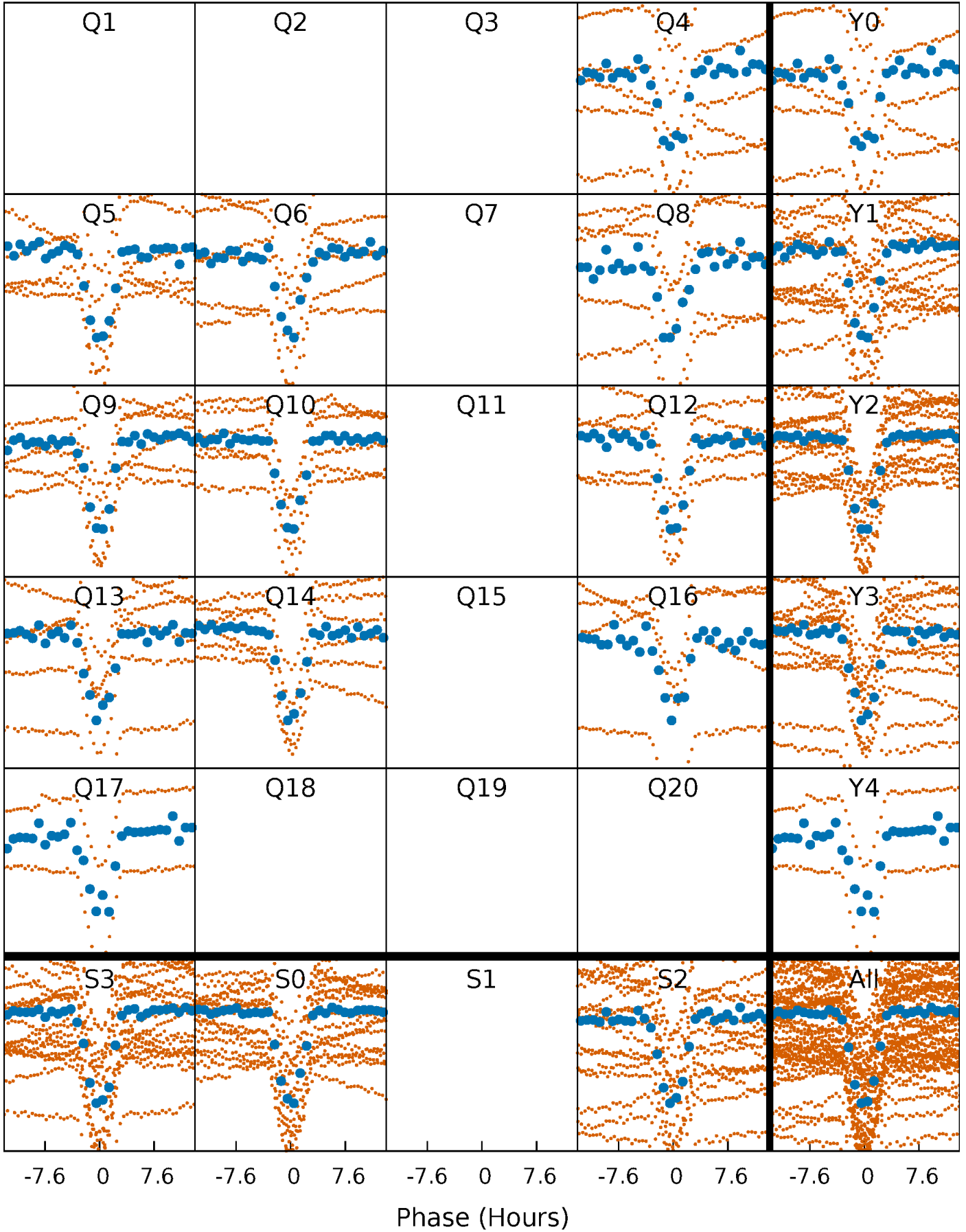


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



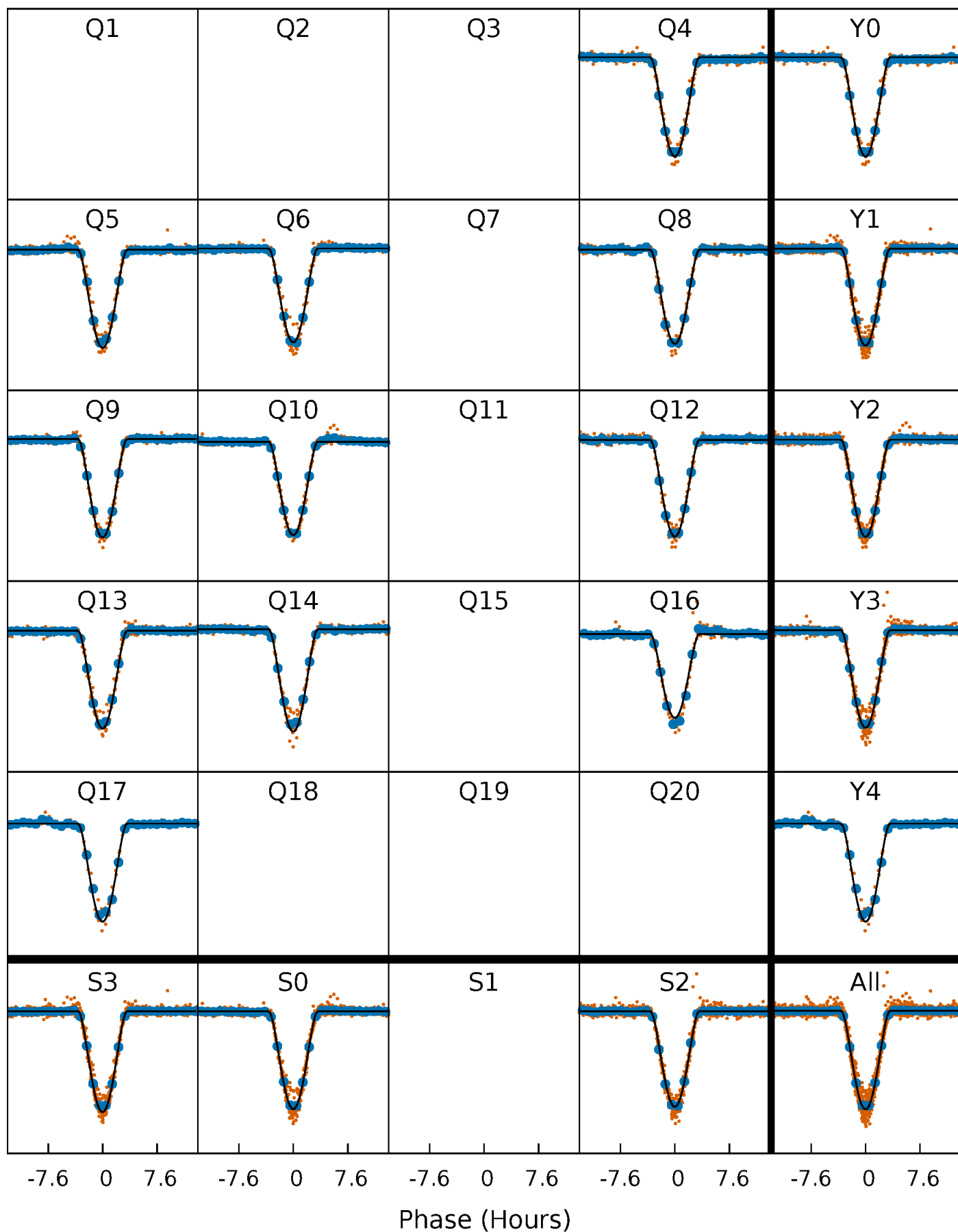
PDC Quarter-Phased Transit Curves

TCE 011044779-01 P= 15.608620 Days $T_0=144.303022$ (BKJD)



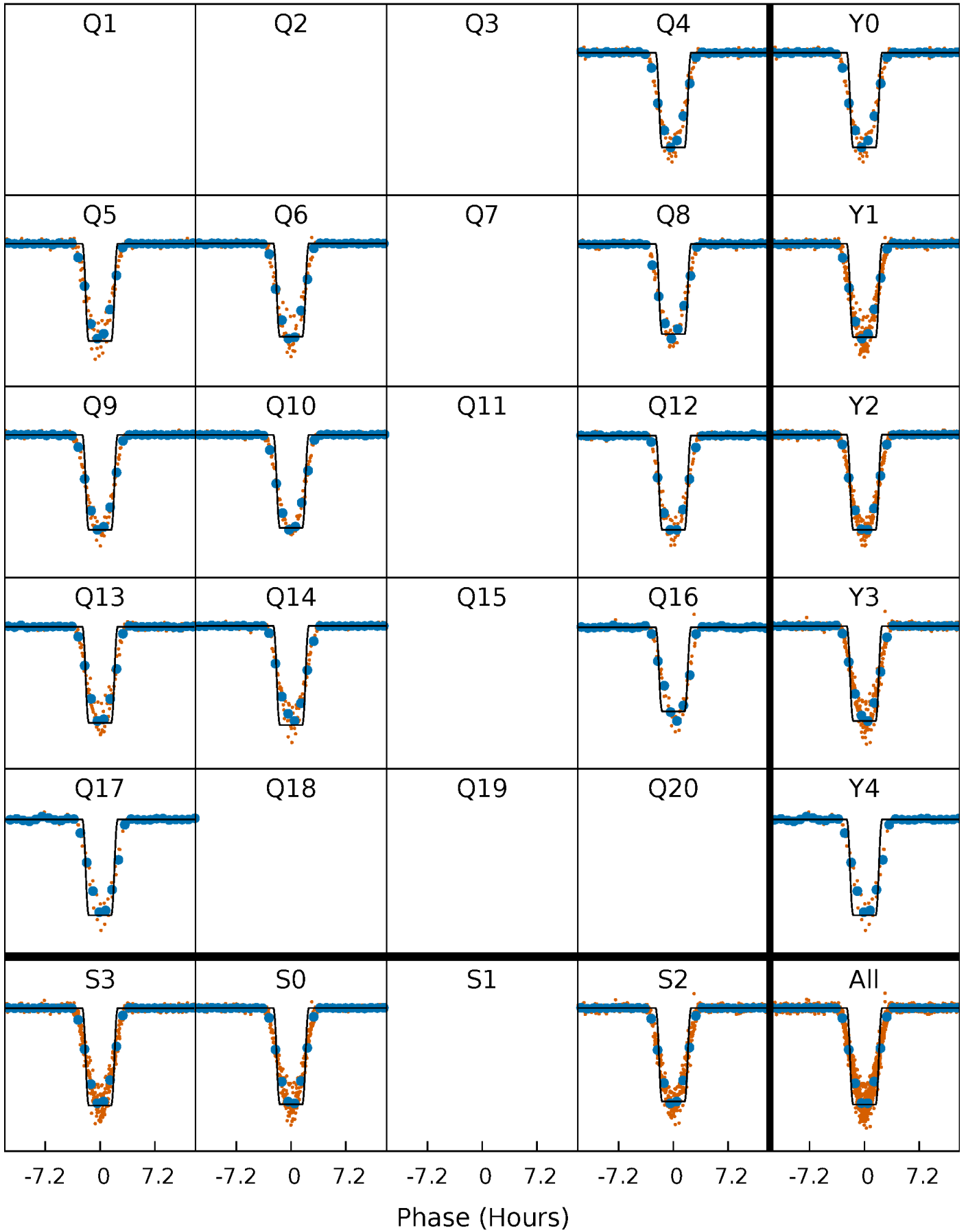
DV Quarter-Phased Transit Curves

TCE 011044779-01 P= 15.608620 Days $T_0=144.303022$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

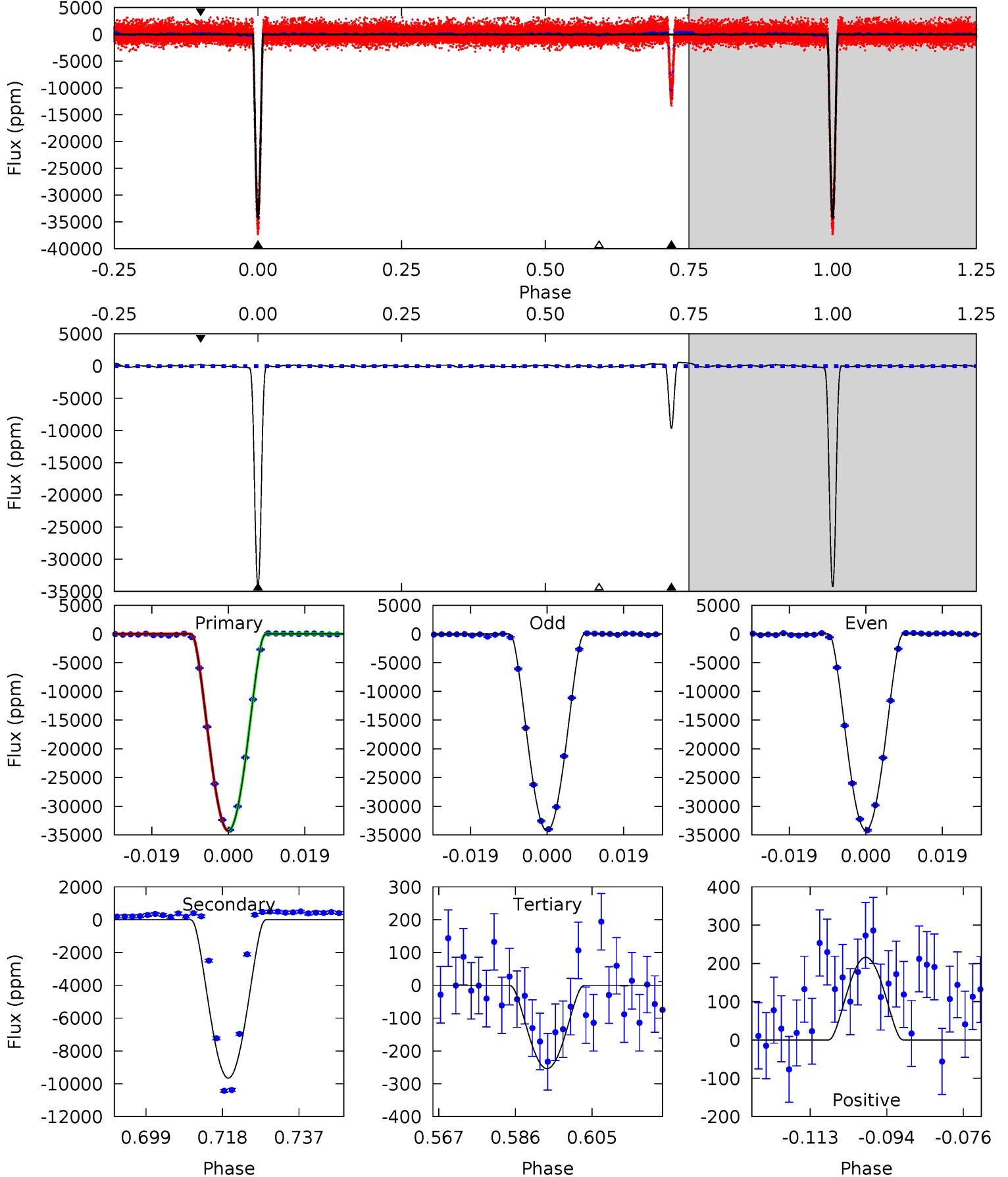
TCE 011044779-01 P= 15.608427 Days $T_0=144.312679$ (BKJD)



DV Model-Shift Uniqueness Test

011044779-01, P = 15.608620 Days, E = 144.303022 Days

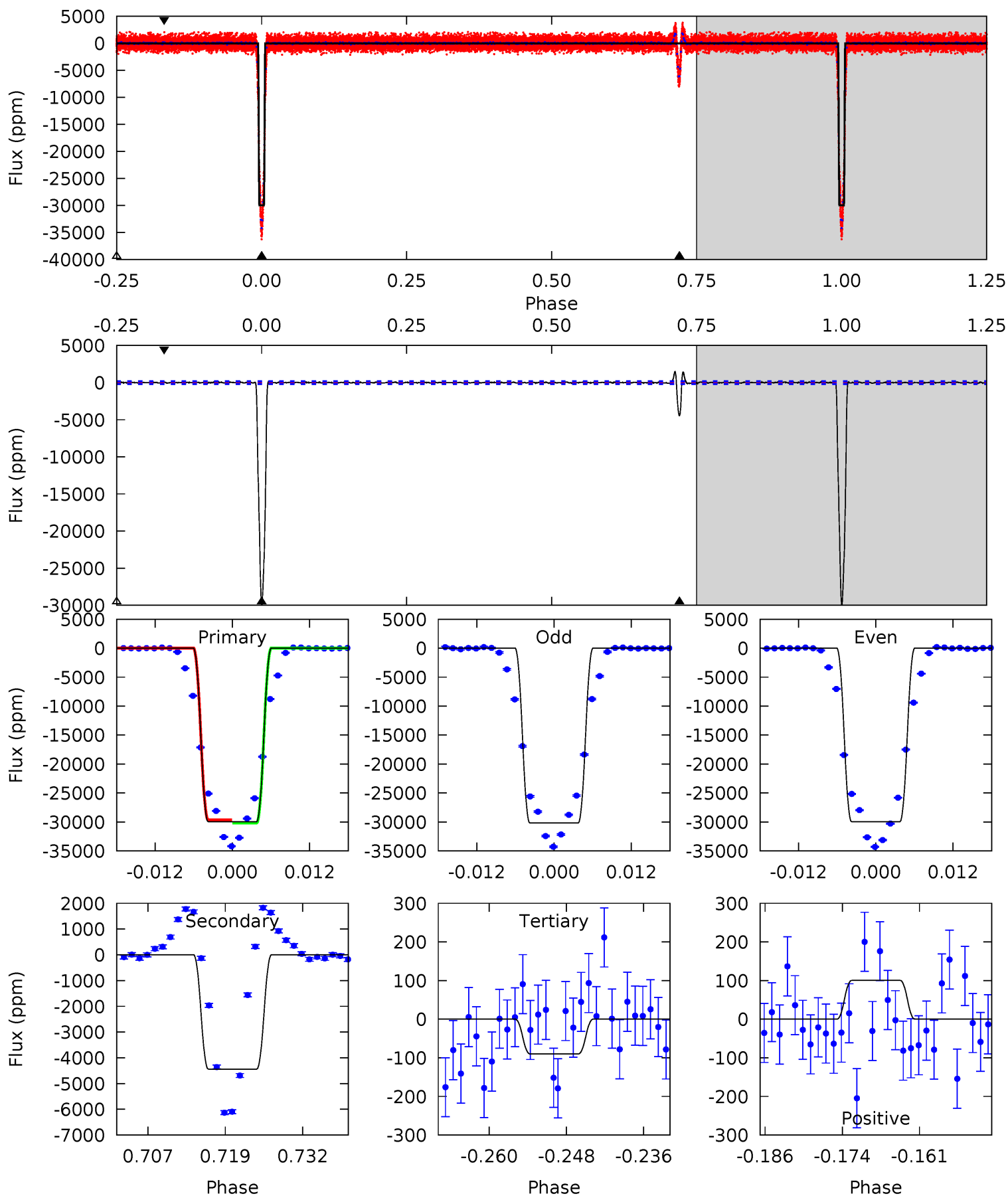
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1152	324.6	8.53	7.26	4.90	2.35	3.89	1144	1145	316.1	317.3	1.64	0.99	0.02	0.73



Alt Model-Shift Uniqueness Test

011044779-01, P = 15.608427 Days, E = 144.312679 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
849.2	125.8	2.55	2.84	4.98	2.50	0.93	846.7	846.4	123.3	123.0	3.08	0.99	0.05	0



Stellar Parameters For KIC 011044779

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5569^{+182}_{-182}	$4.566^{+0.032}_{-0.168}$	$-0.080^{+0.300}_{-0.300}$	$0.829^{+0.201}_{-0.080}$	$0.928^{+0.091}_{-0.112}$	$2.295^{+0.482}_{-1.050}$
	+3%/-3%	+1%/-4%	+375%/-375%	+24%/-10%	+10%/-12%	+21%/-46%
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 011044779-01 / KOI 3327.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-9655 ± 30	$26.57^{+3.84}_{-3.37}$	931^{+51}_{-46}	3708^{+160}_{-140}	106^{+30}_{-24}
Alt.	-4442 ± 35	$17.26^{+3.26}_{-2.72}$	929^{+56}_{-41}	3757^{+226}_{-178}	115^{+45}_{-32}

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 $A_{obs} \gg 1.0$

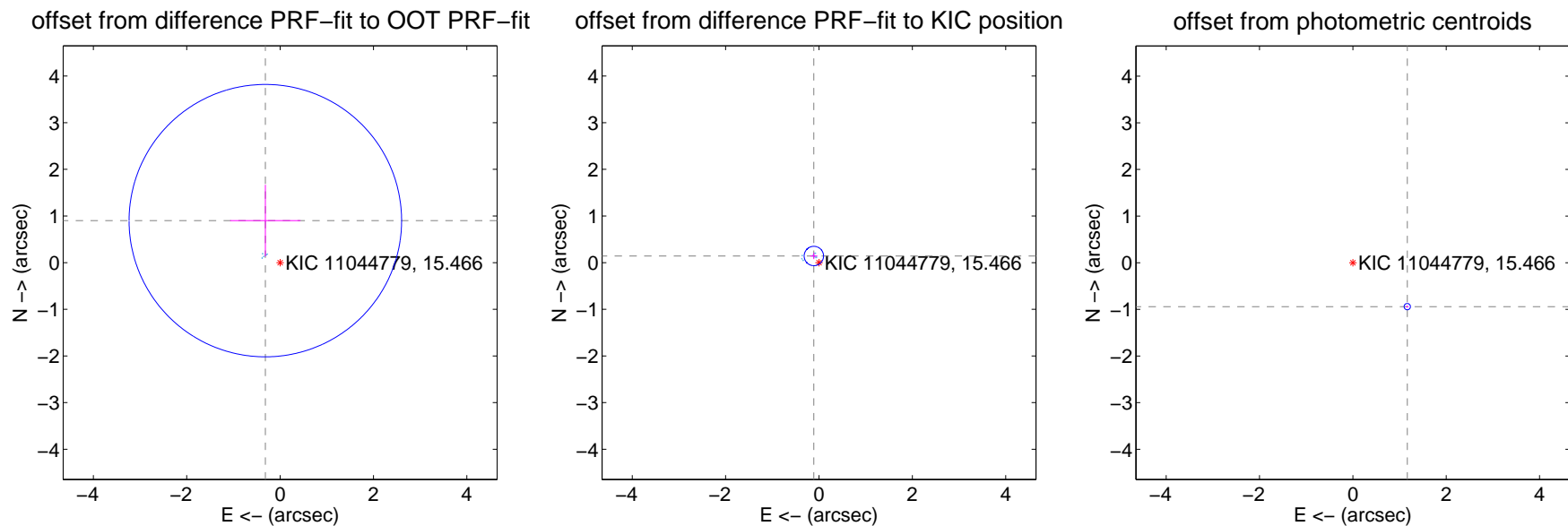
DV Centroid Data

Supplemental centroid analysis for 011044779-01. Kepler magnitude: 15.47. Transit SNR 454.97

There are 11 quarters with good PRF difference image offsets

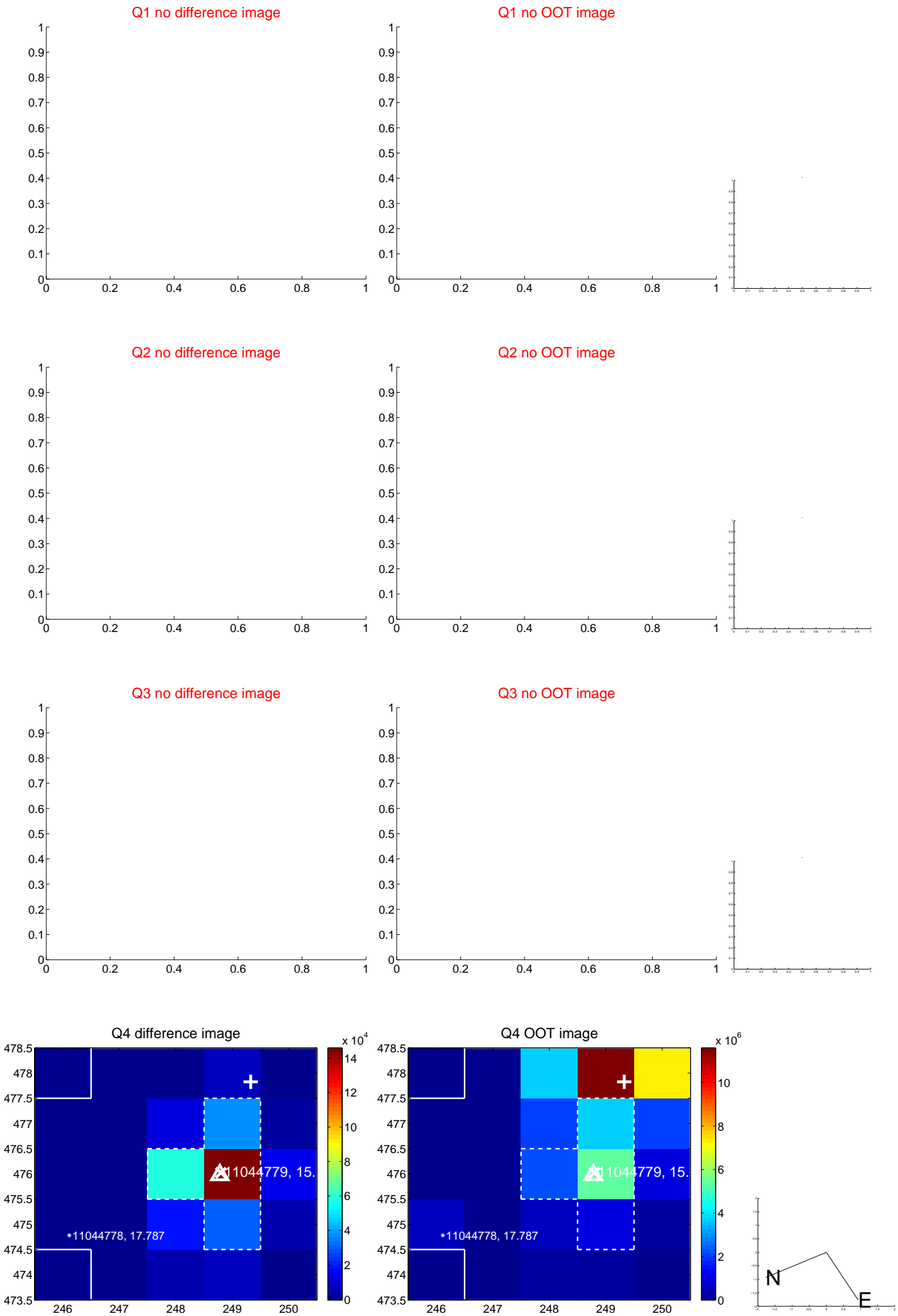
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.954 ± 0.973	0.98	0.316 ± 0.754	0.900 ± 0.768
PRF-fit source offset from KIC position	0.180 ± 0.069	2.60	0.110 ± 0.075	0.142 ± 0.067
photometric centroid source offset	1.50 ± 0.02	66.46	-1.17 ± 0.02	-0.94 ± 0.02

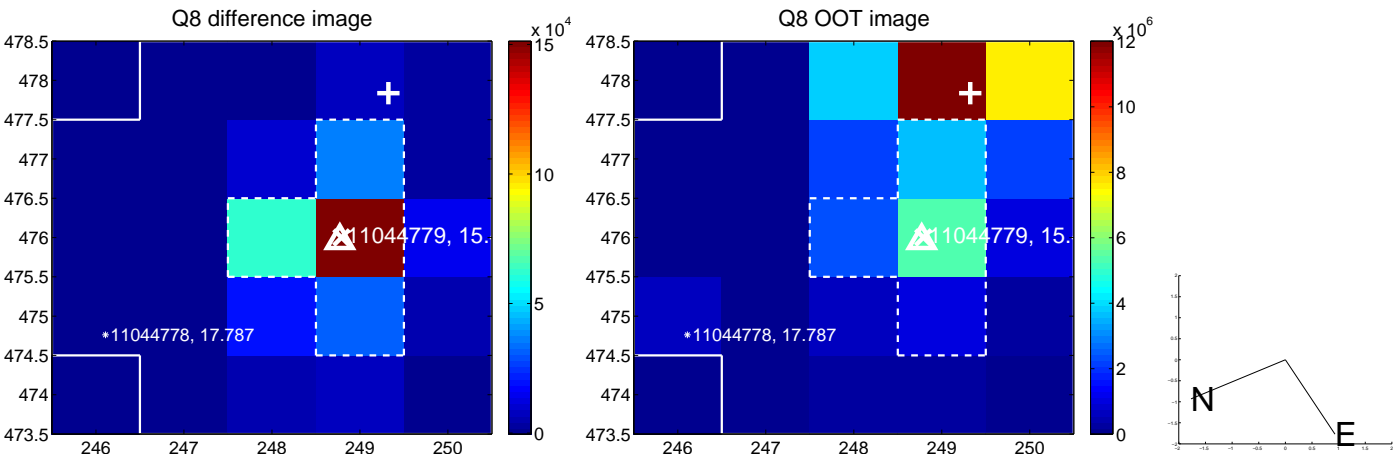
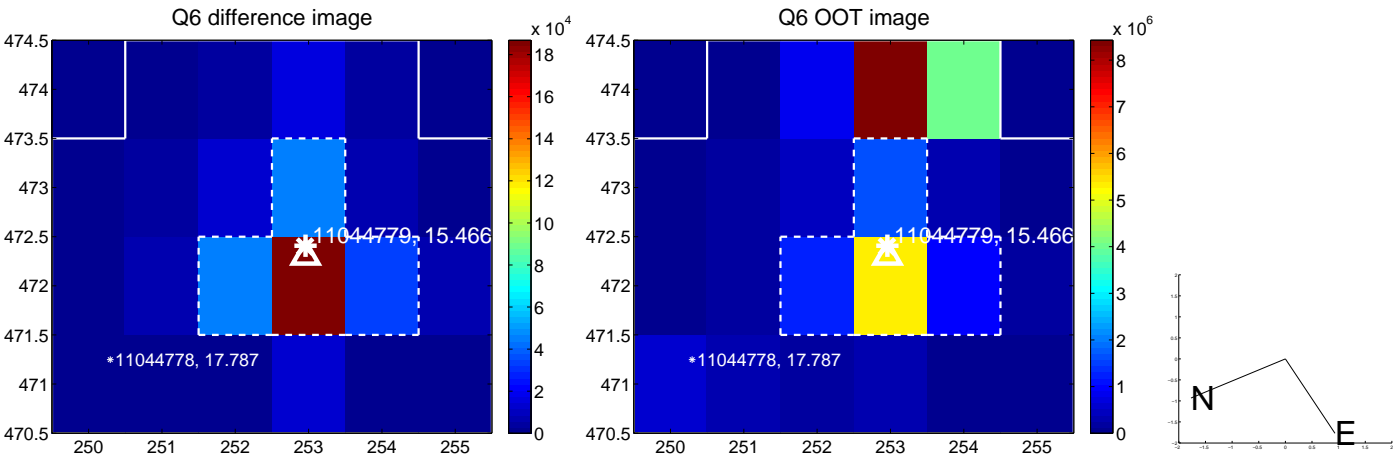
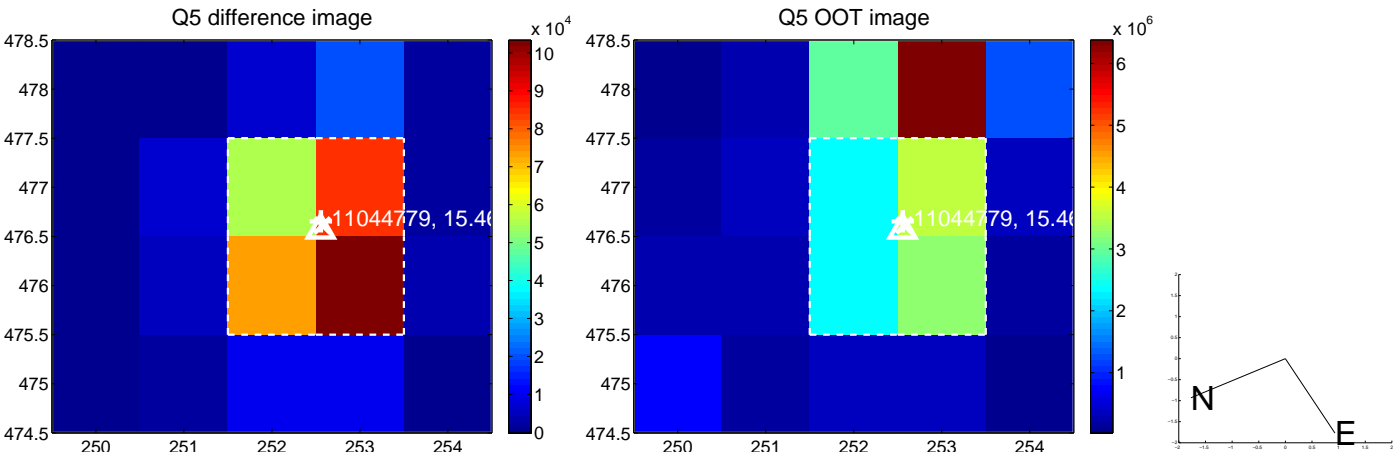


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

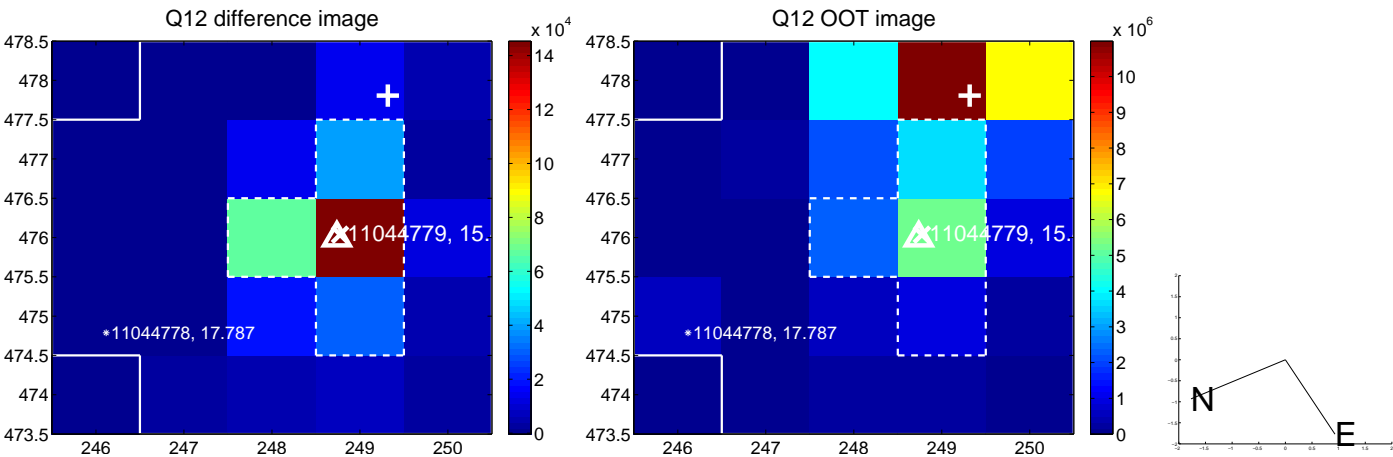
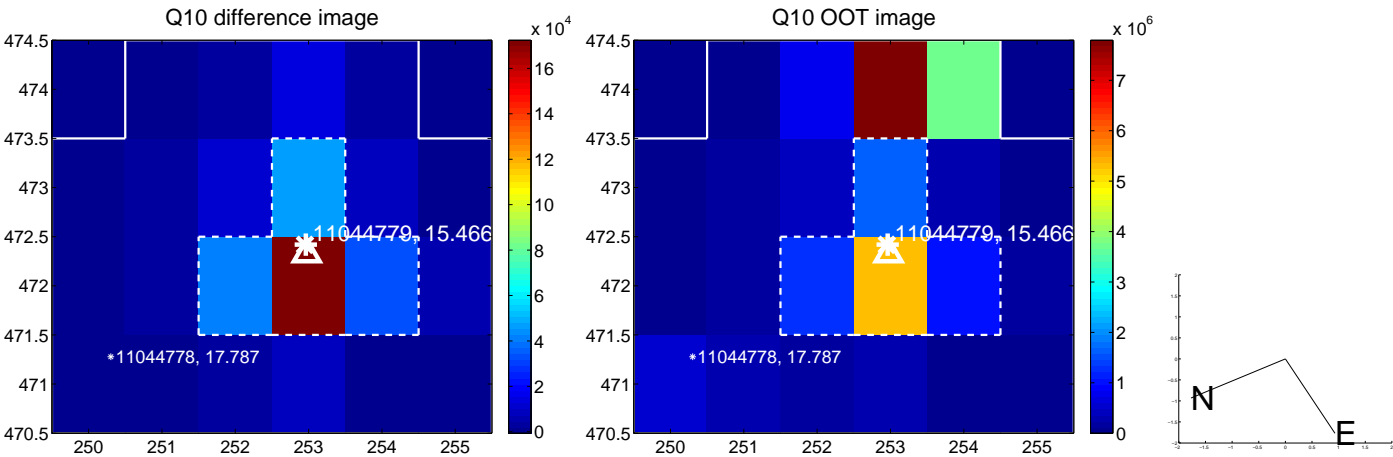
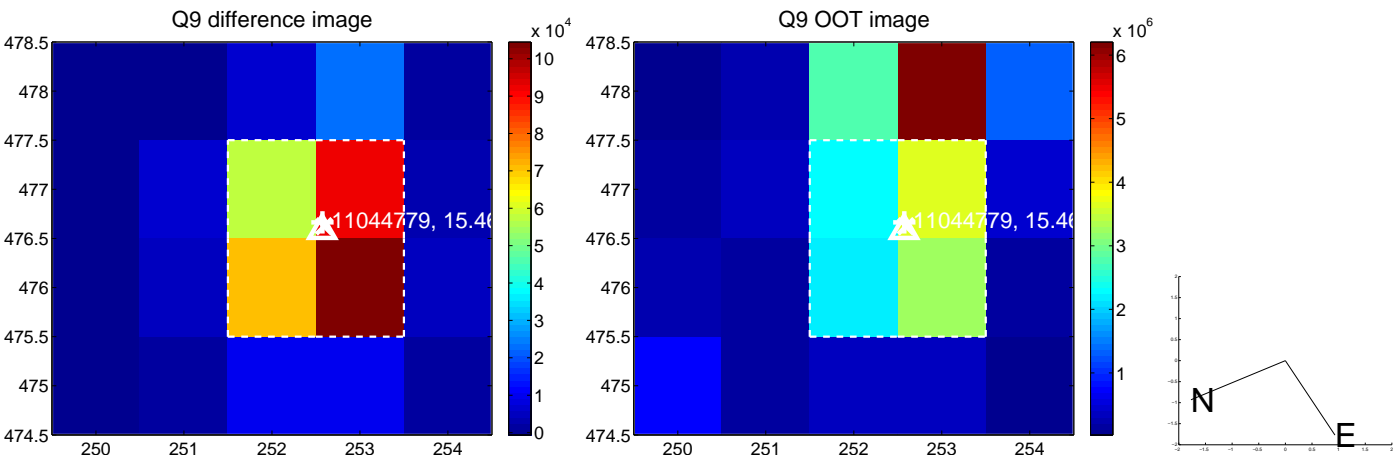
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



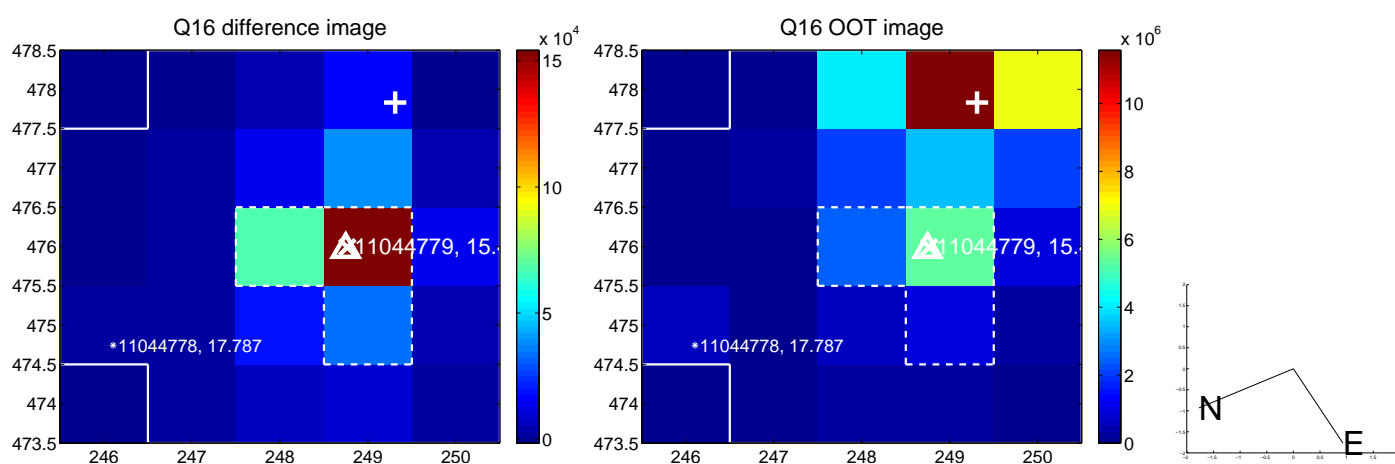
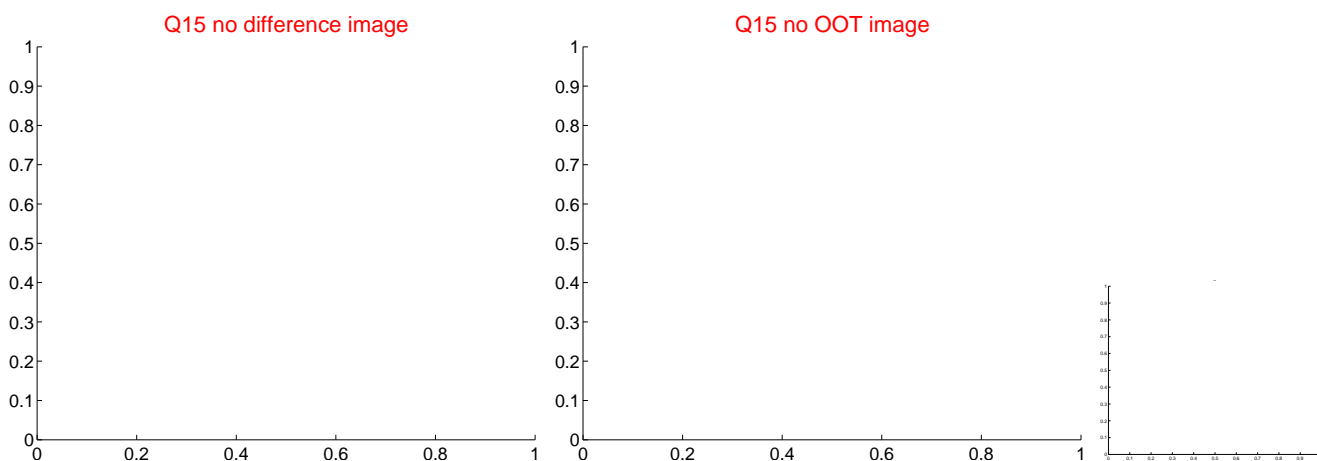
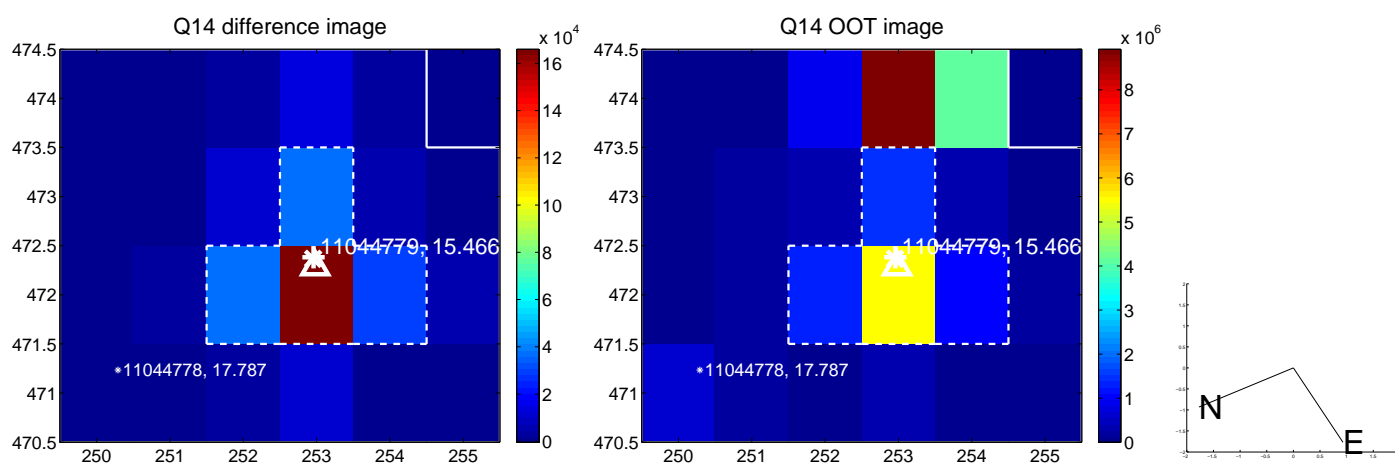
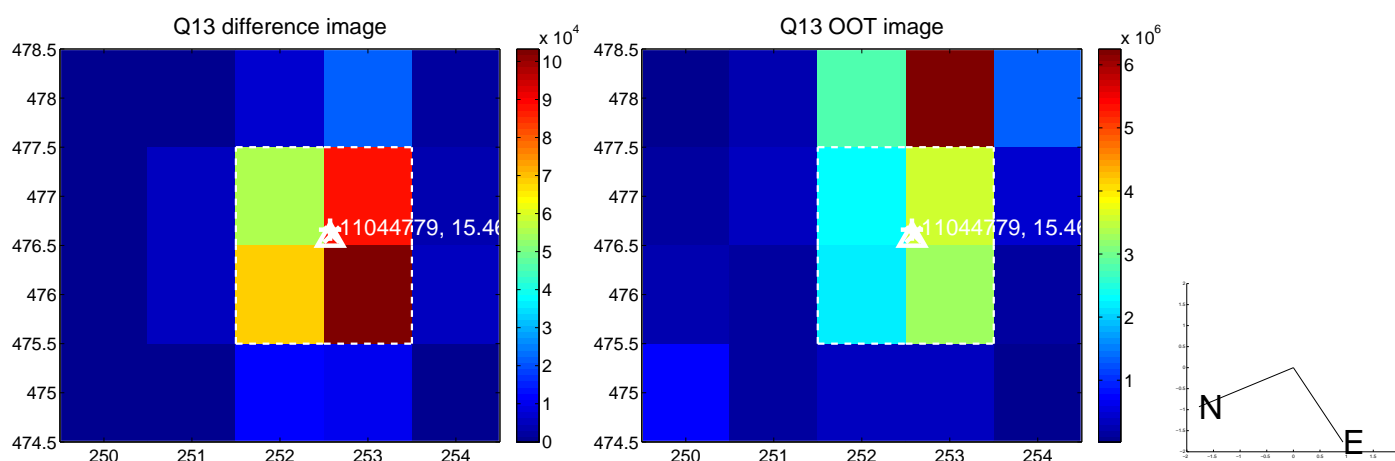
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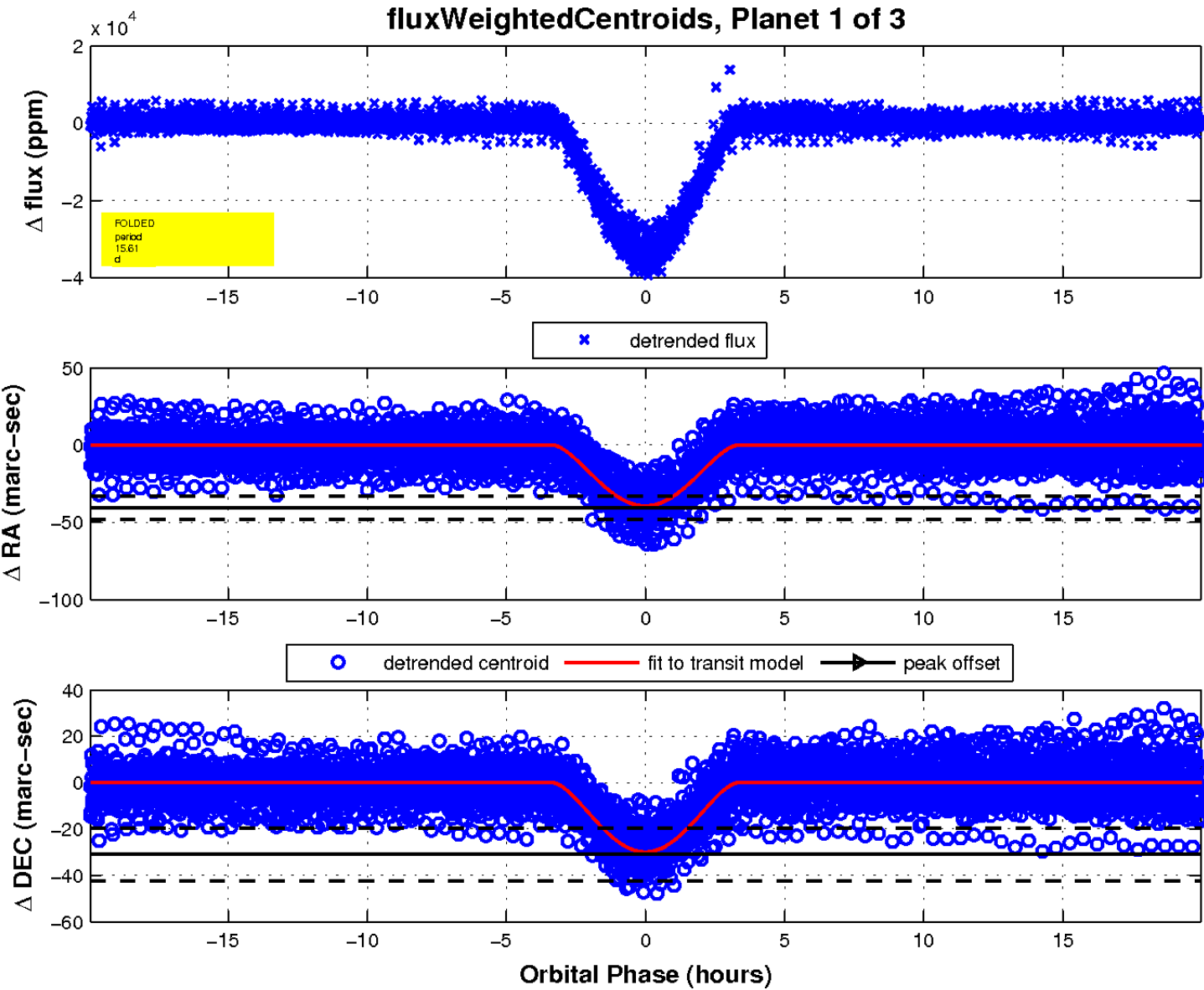
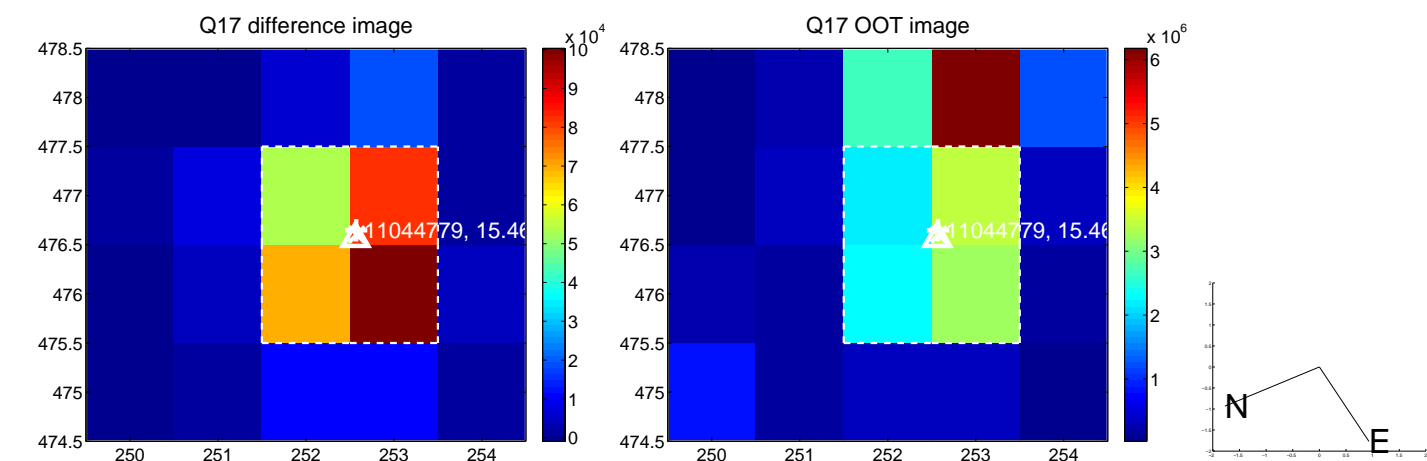
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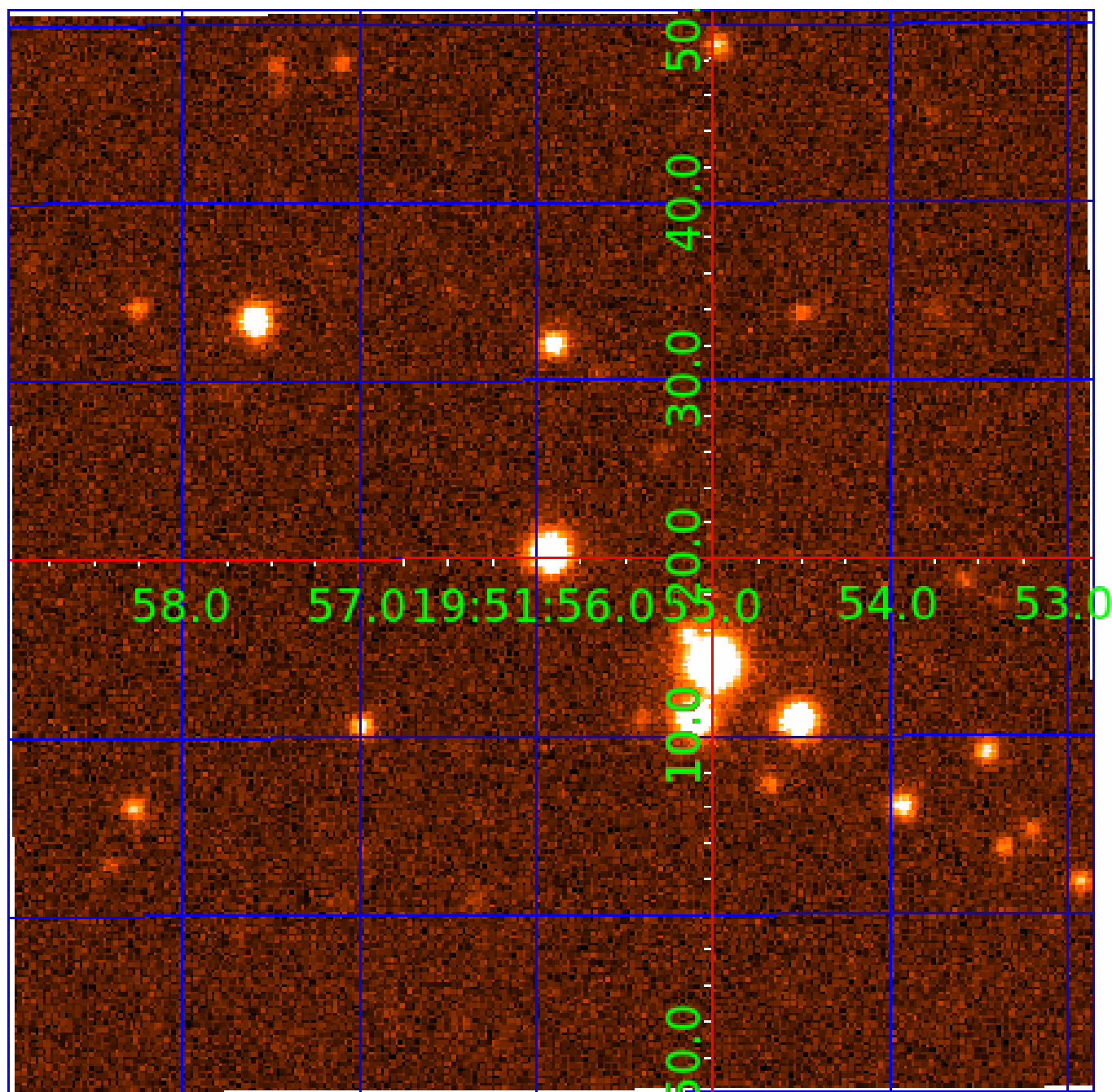


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011044779

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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011044779-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_KIC_POS
011044779-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS—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.

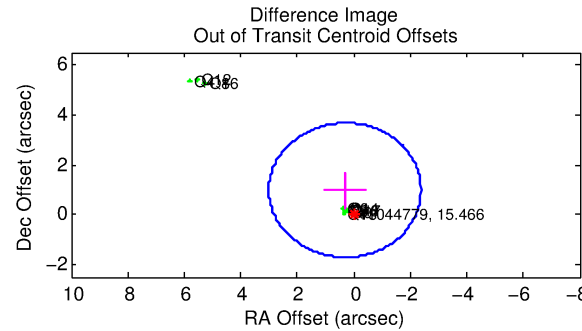
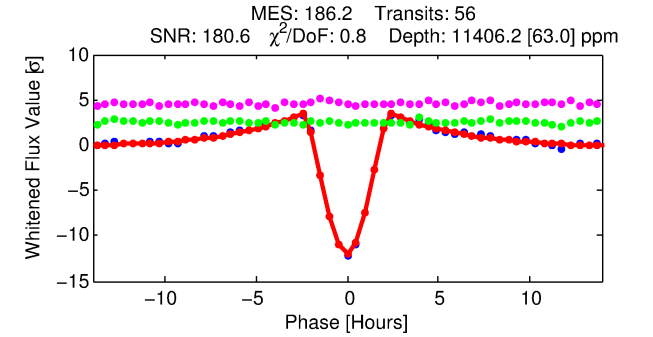
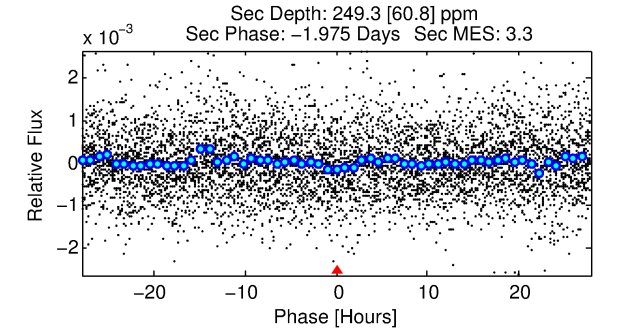
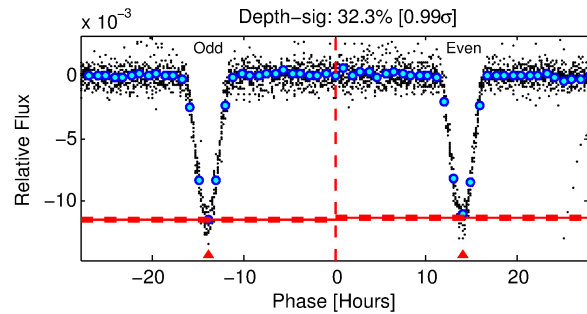
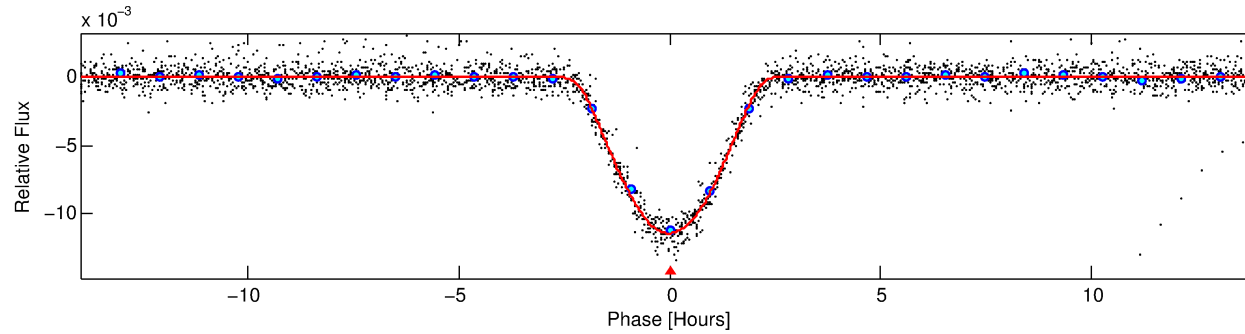
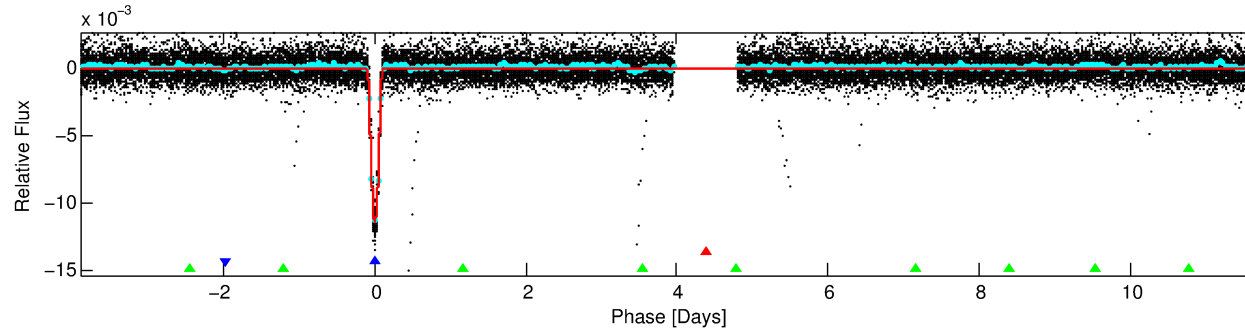
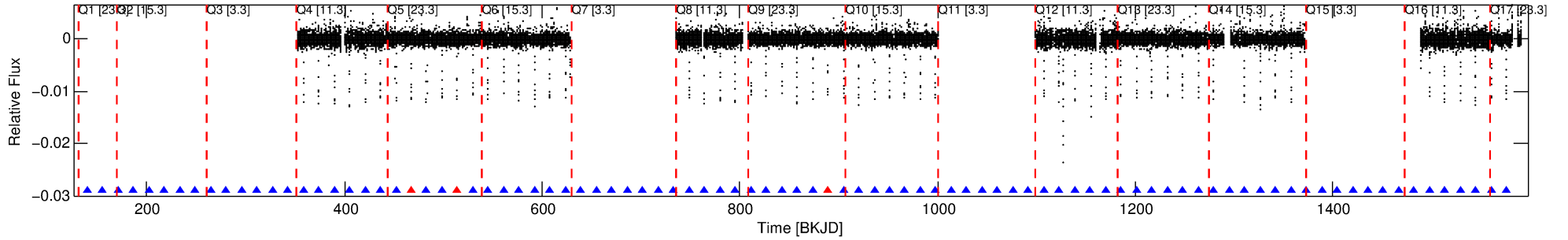
Ephemeris Match Information For 011044779-02

No Significant Match Found

DV One-Page Summary

KIC: 11044779 Candidate: 2 of 3 Period: 15.609 d
KOI: K03327 Corr: No Ephemeris Match

Kp: 15.47 R*: 0.83 Rs Teff: 5569.0 K Logg: 4.57 Fe/H: -0.080



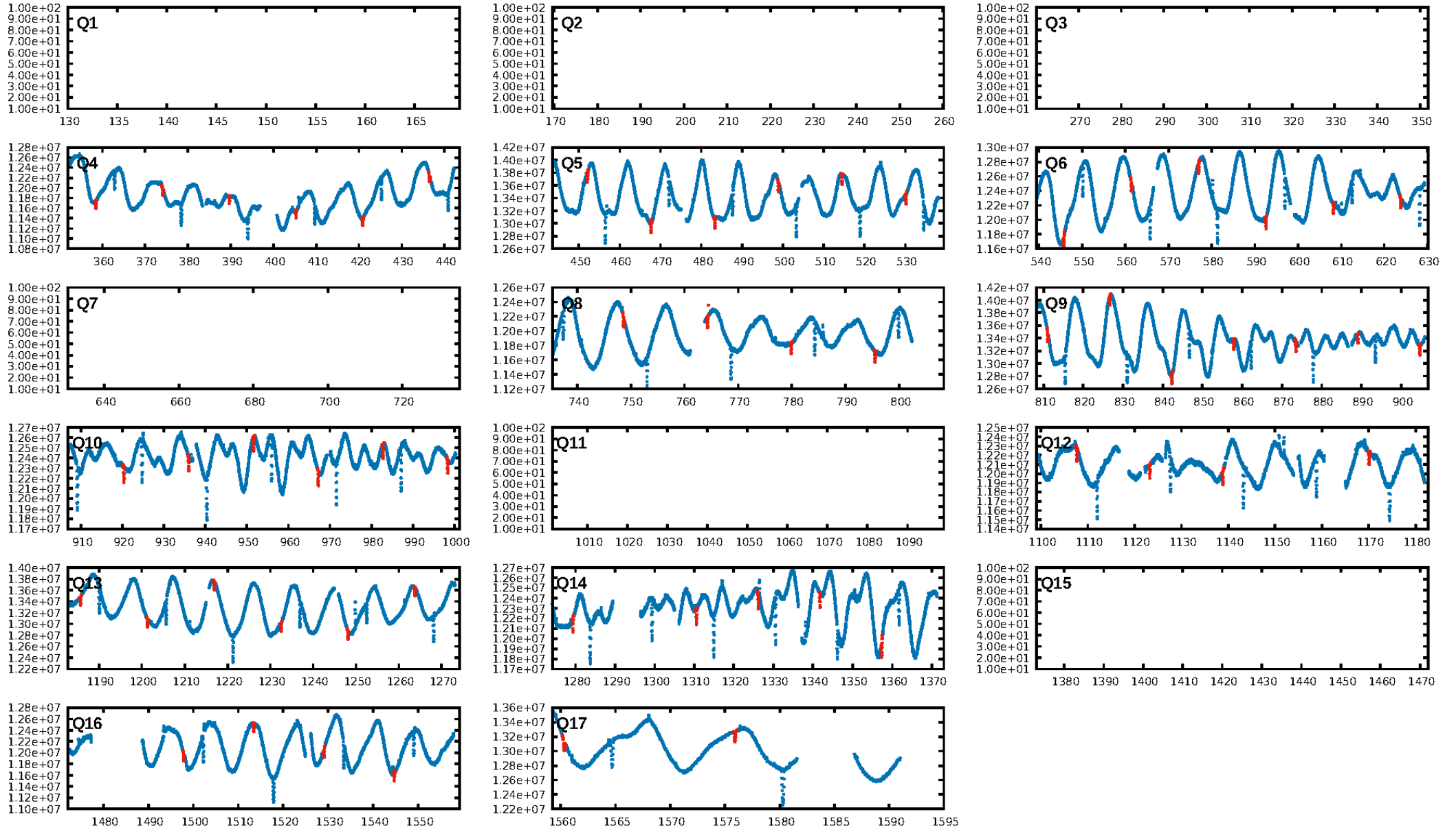
DV Fit Results:

Period = 15.60861 [0.00001] d
Epoch = 139.9234 [0.0006] BKJD
Rp/R* = 0.1574 [0.0229]
a/R* = 16.21 [0.43]
b = 0.97 [0.04]
Seff = 41.80 [13.85]
Teq = 648 [54] K
Rp = 14.24 [4.02] Re
a = 0.1190 [0.0246] AU
Ag = 9.59 [4.66] [1.84σ]
Teffp = 1764 [177] K [6.03σ]

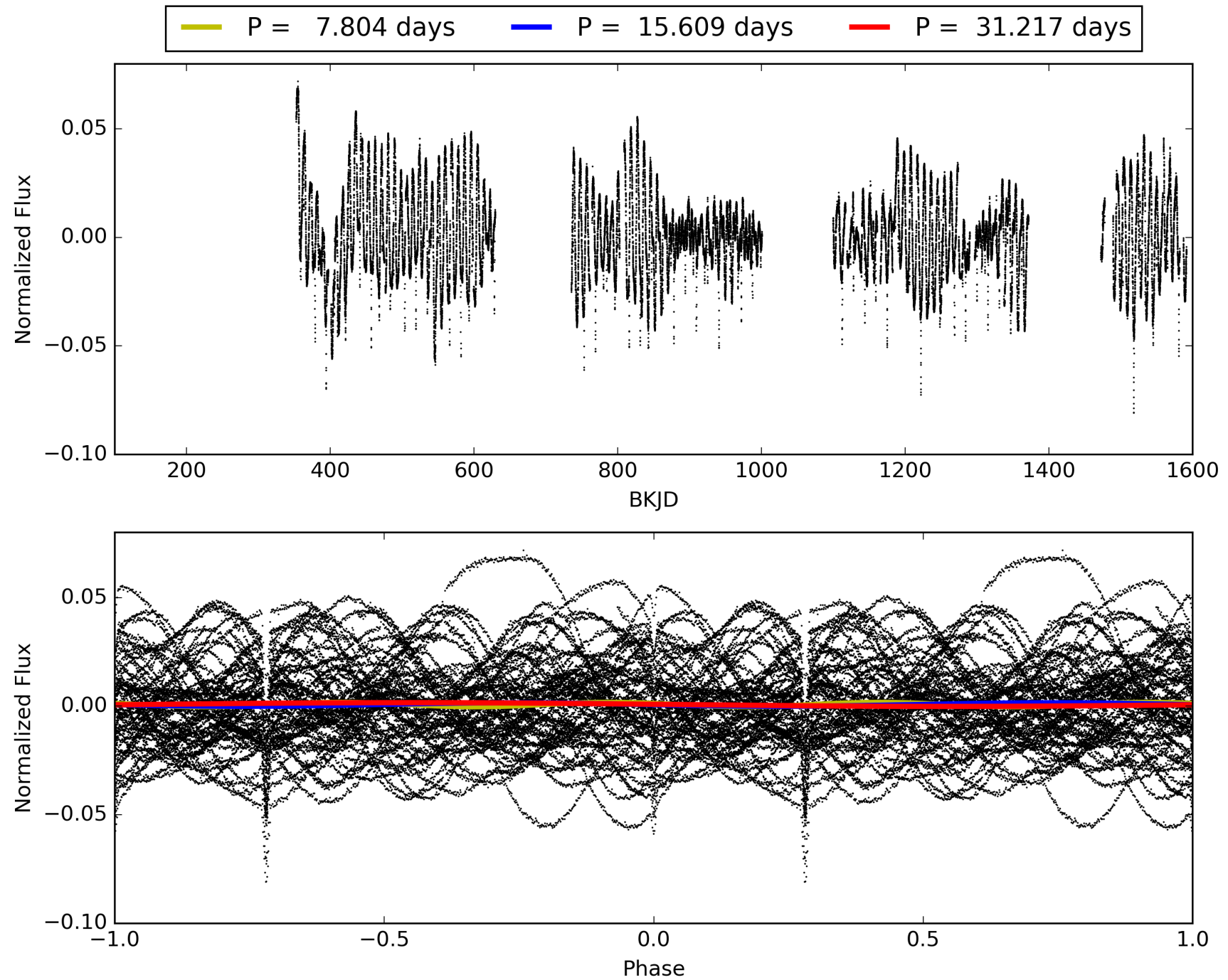
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: 20.2%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 0.94 [51/54]
GhostDiagnostic-chr: 2.811
Centroid-sig: 0.0%
Centroid-so: 1.589 arcsec [23.87σ]
OotOffset-rm: 1.029 arcsec [1.15σ]
KicOffset-rm: 0.174 arcsec [2.34σ]
OotOffset-st: 3/0/4/4 [11]
KicOffset-st: 3/0/4/4 [11]
DiffImageQuality-fgm: 1.00 [11/11]
DiffImageOverlap-fno: 1.00 [11/11]

TCE 011044779-02, PDC Light Curves

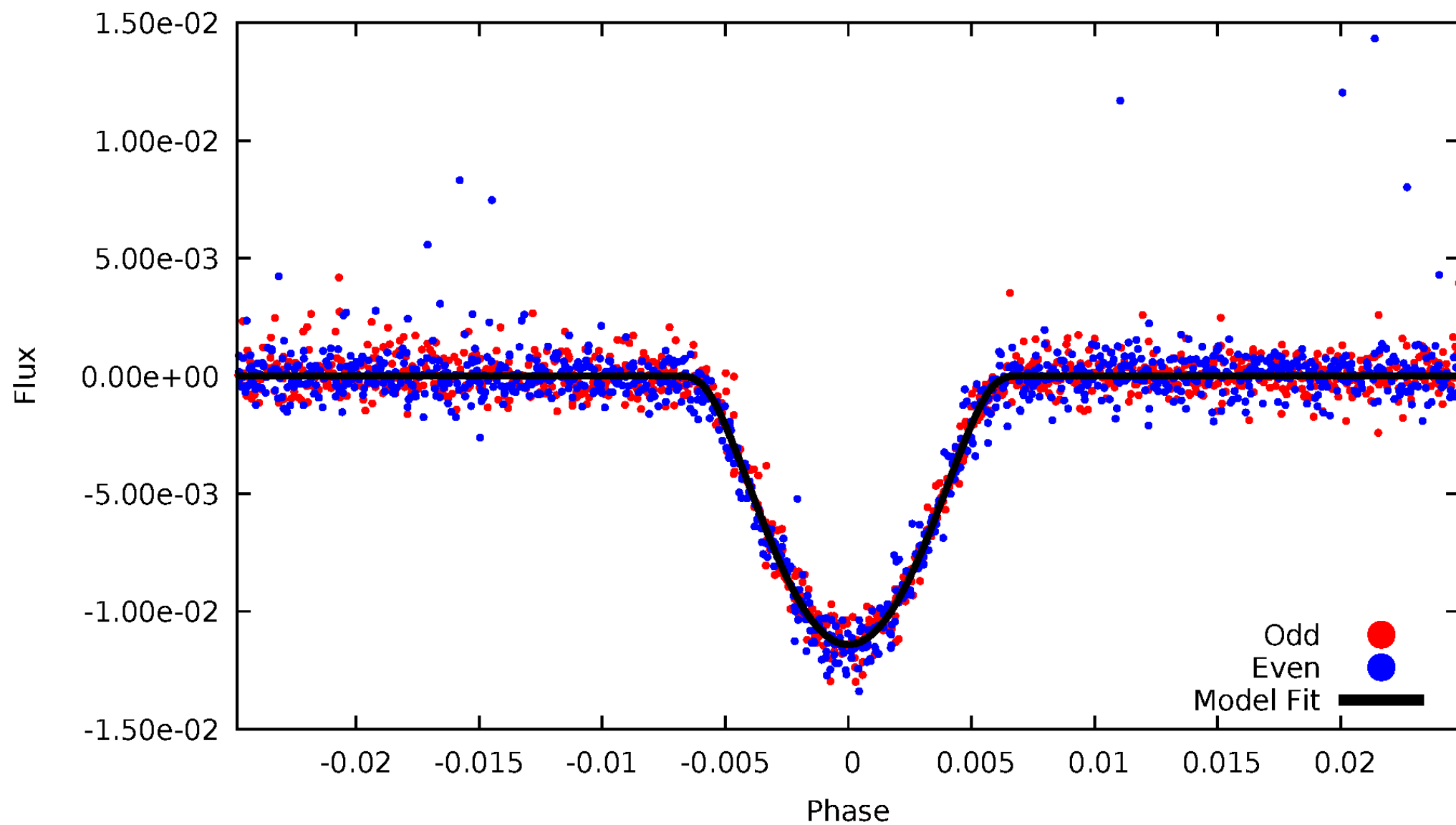


TCE 011044779-02



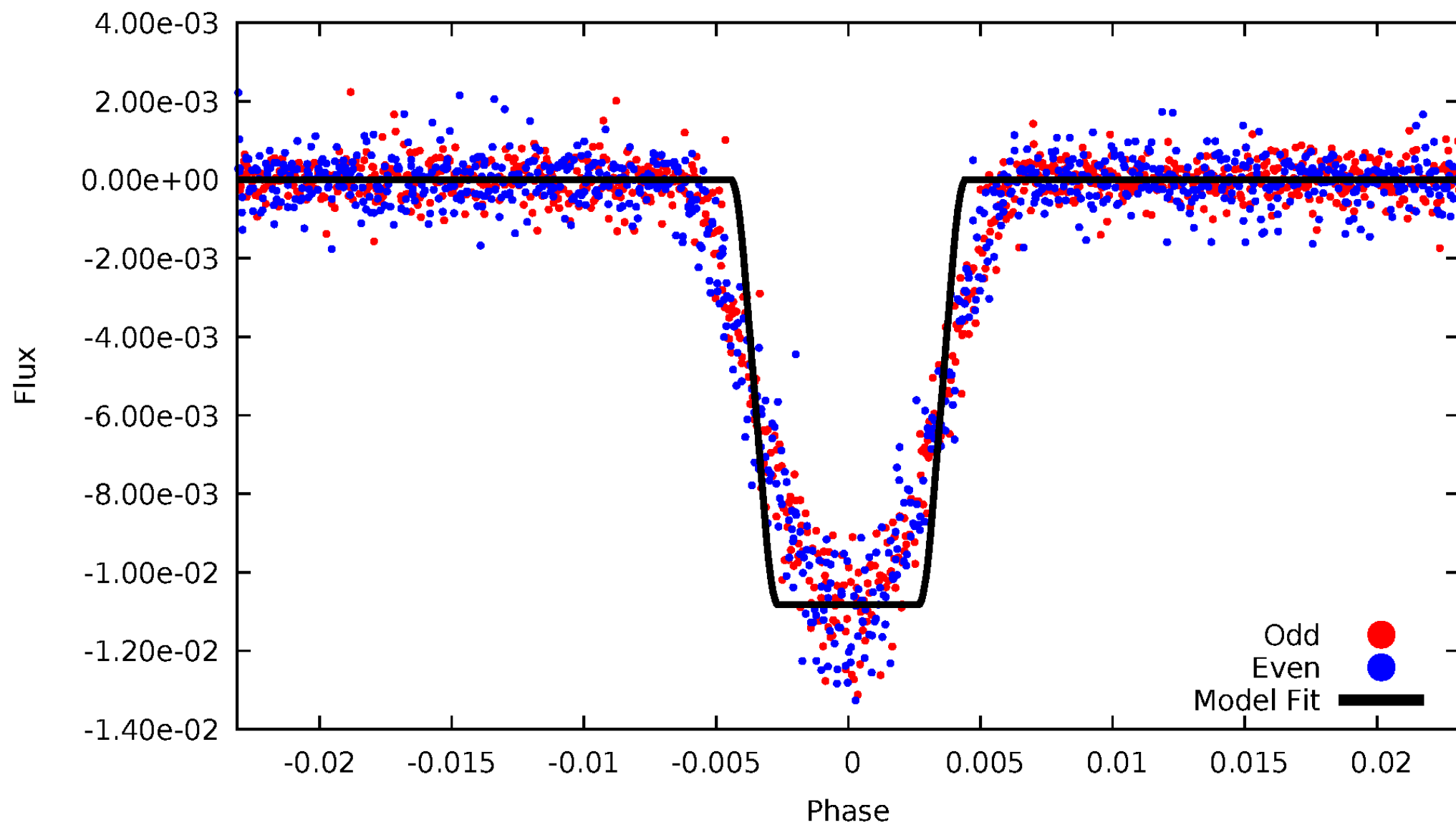
DV Odd/Even

TCE 011044779-02



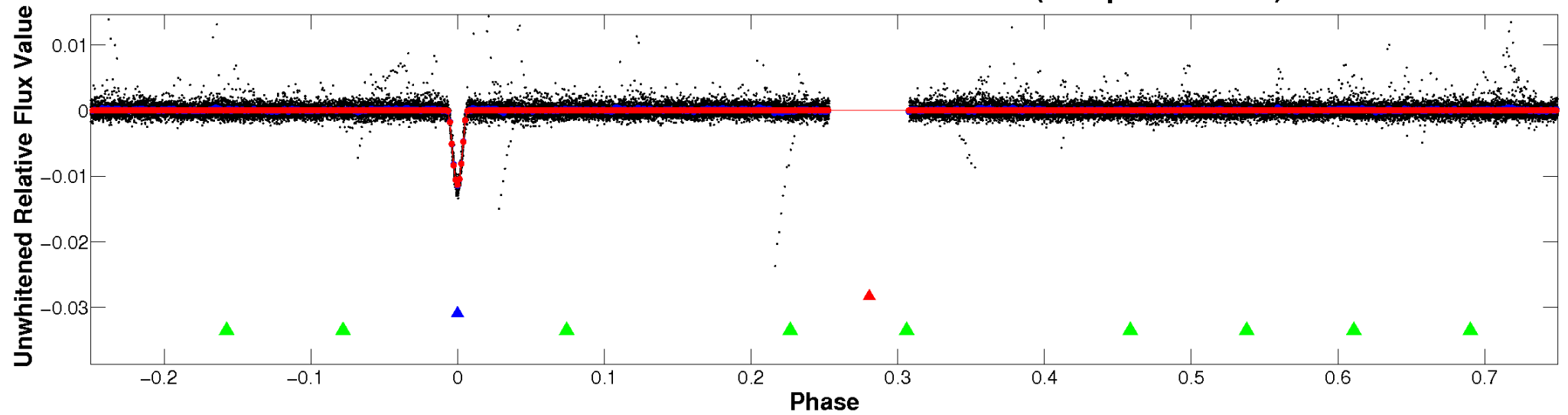
ALT Odd/Even

TCE 011044779-02

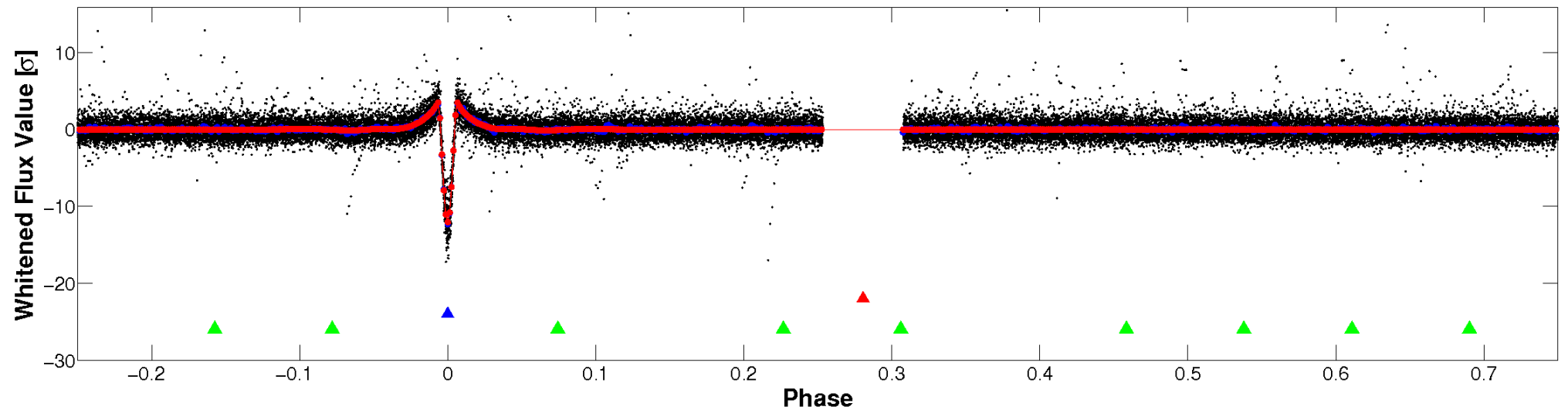


Non-Whitened Vs. Whitened Light Curve

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

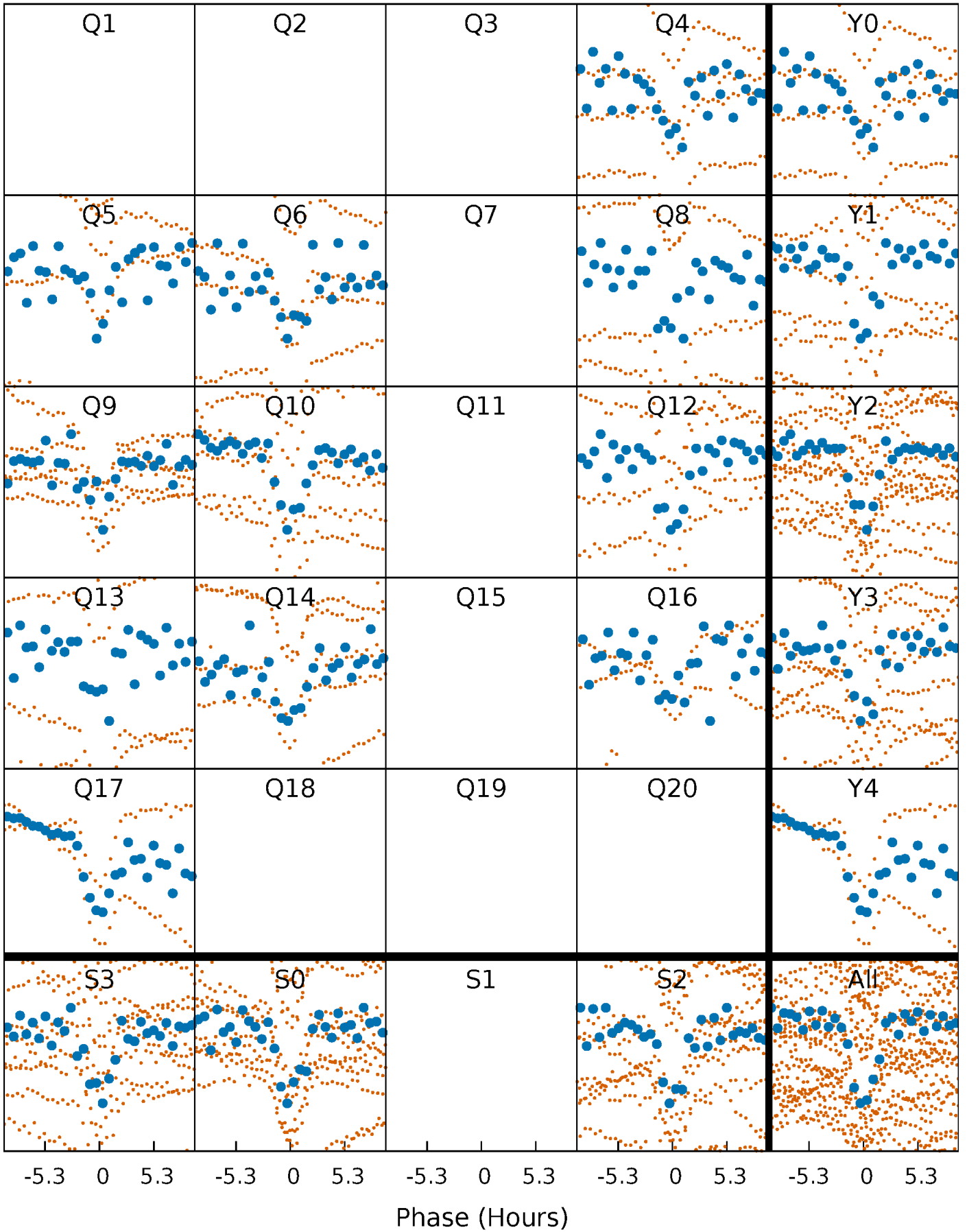


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



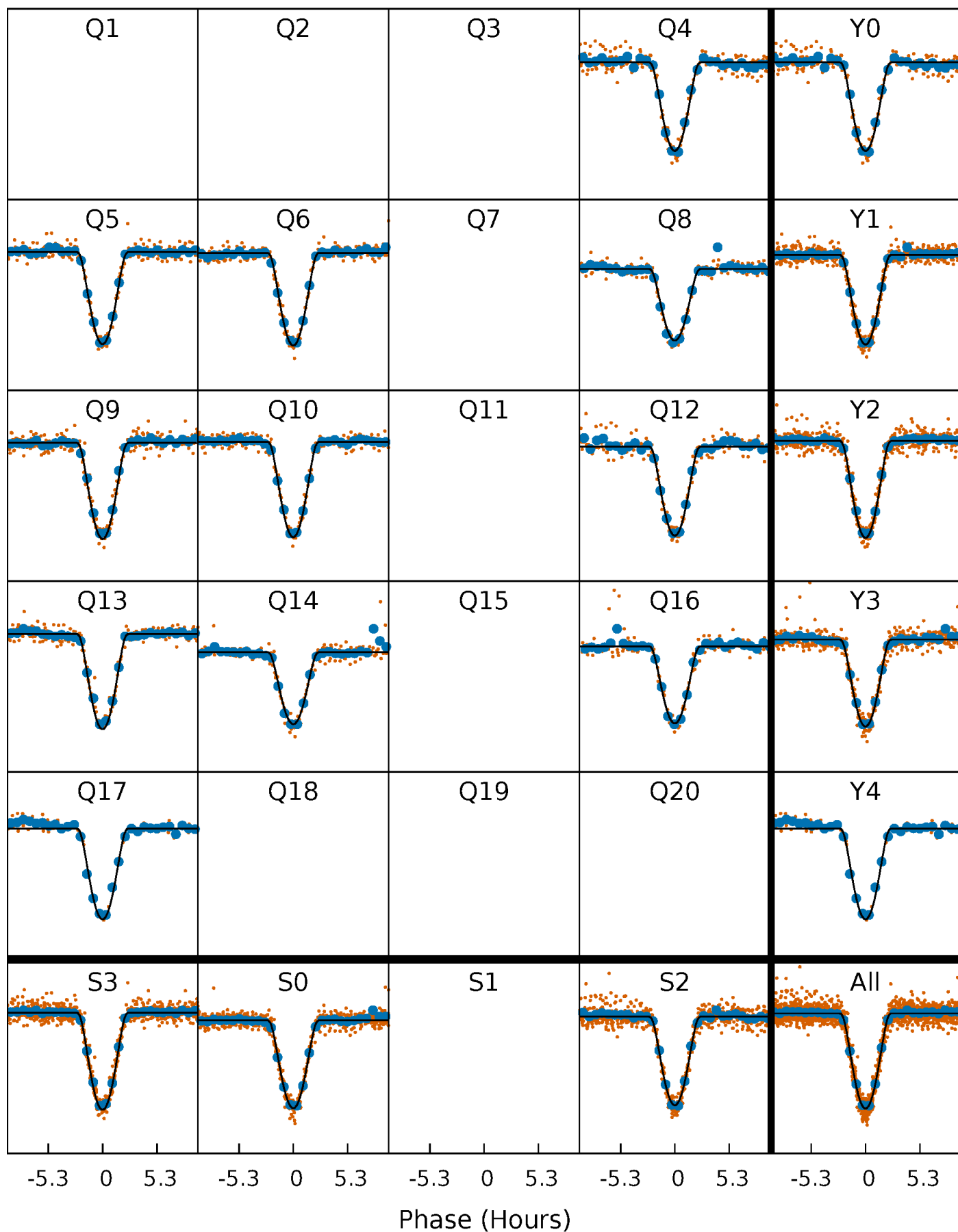
PDC Quarter-Phased Transit Curves

TCE 011044779-02 P= 15.608612 Days $T_0=139.923351$ (BKJD)



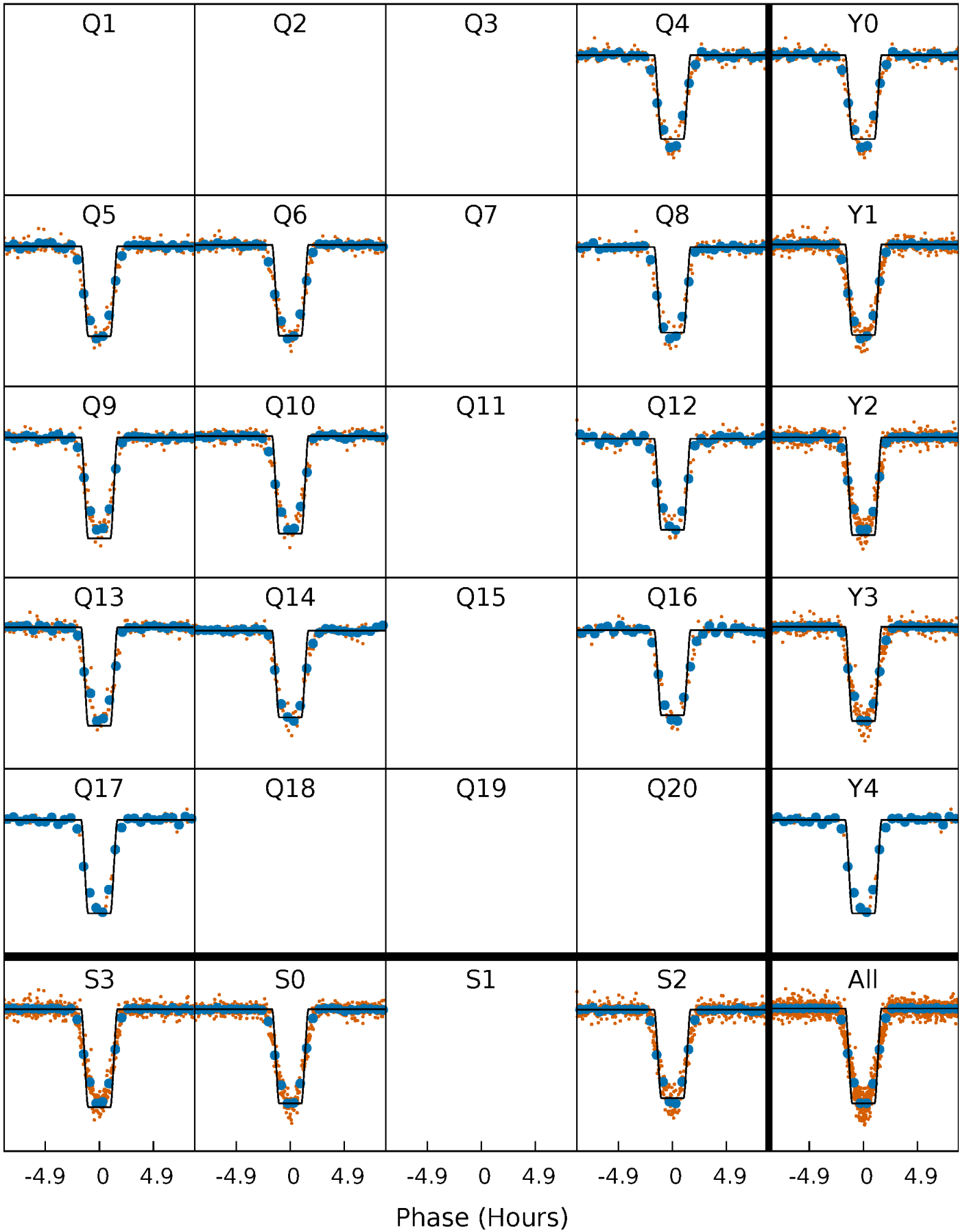
DV Quarter-Phased Transit Curves

TCE 011044779-02 P= 15.608612 Days $T_0=139.923351$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

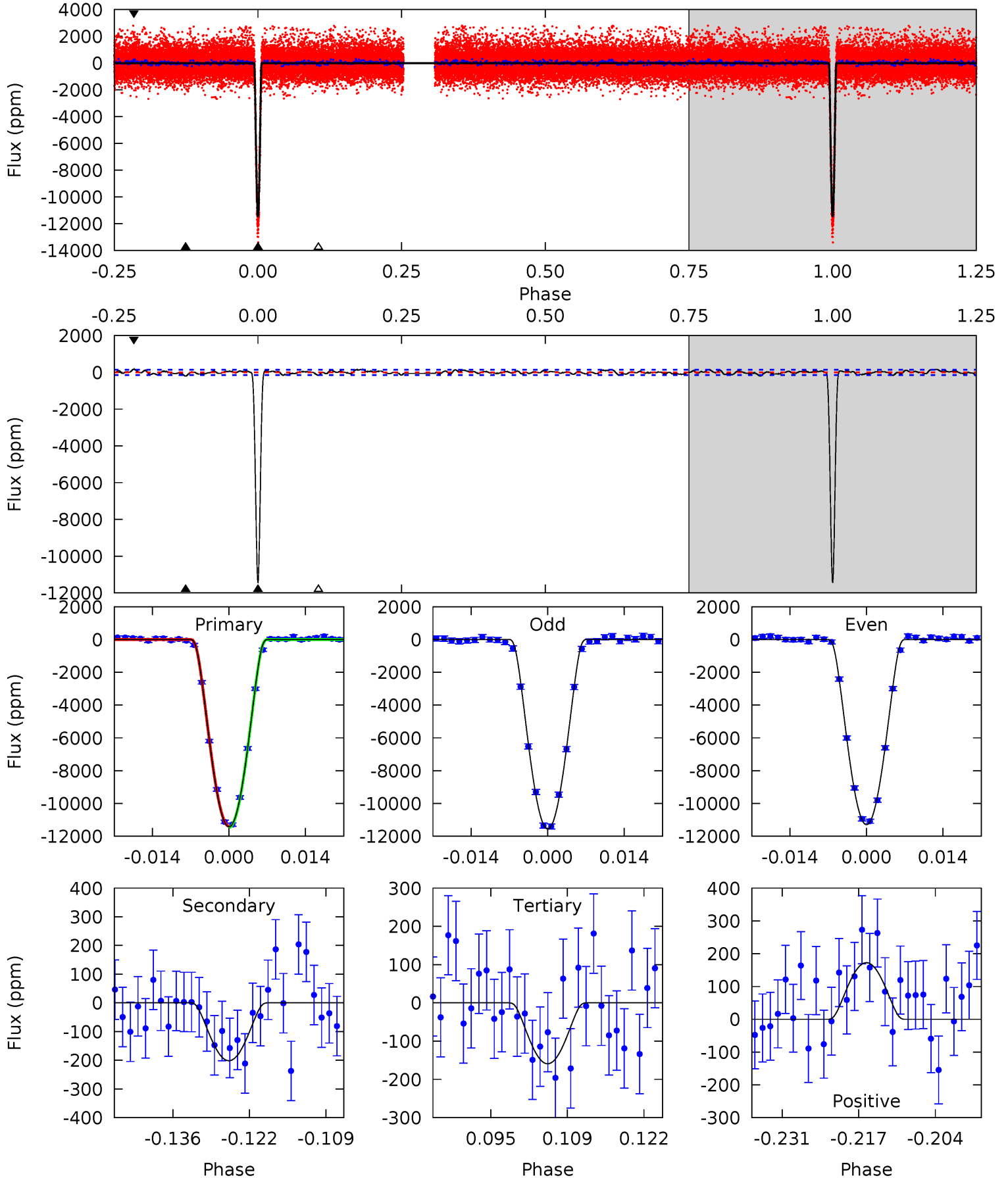
TCE 011044779-02 P= 15.608547 Days $T_0=139.926601$ (BKJD)



DV Model-Shift Uniqueness Test

011044779-02, P = 15.608612 Days, E = 139.923351 Days

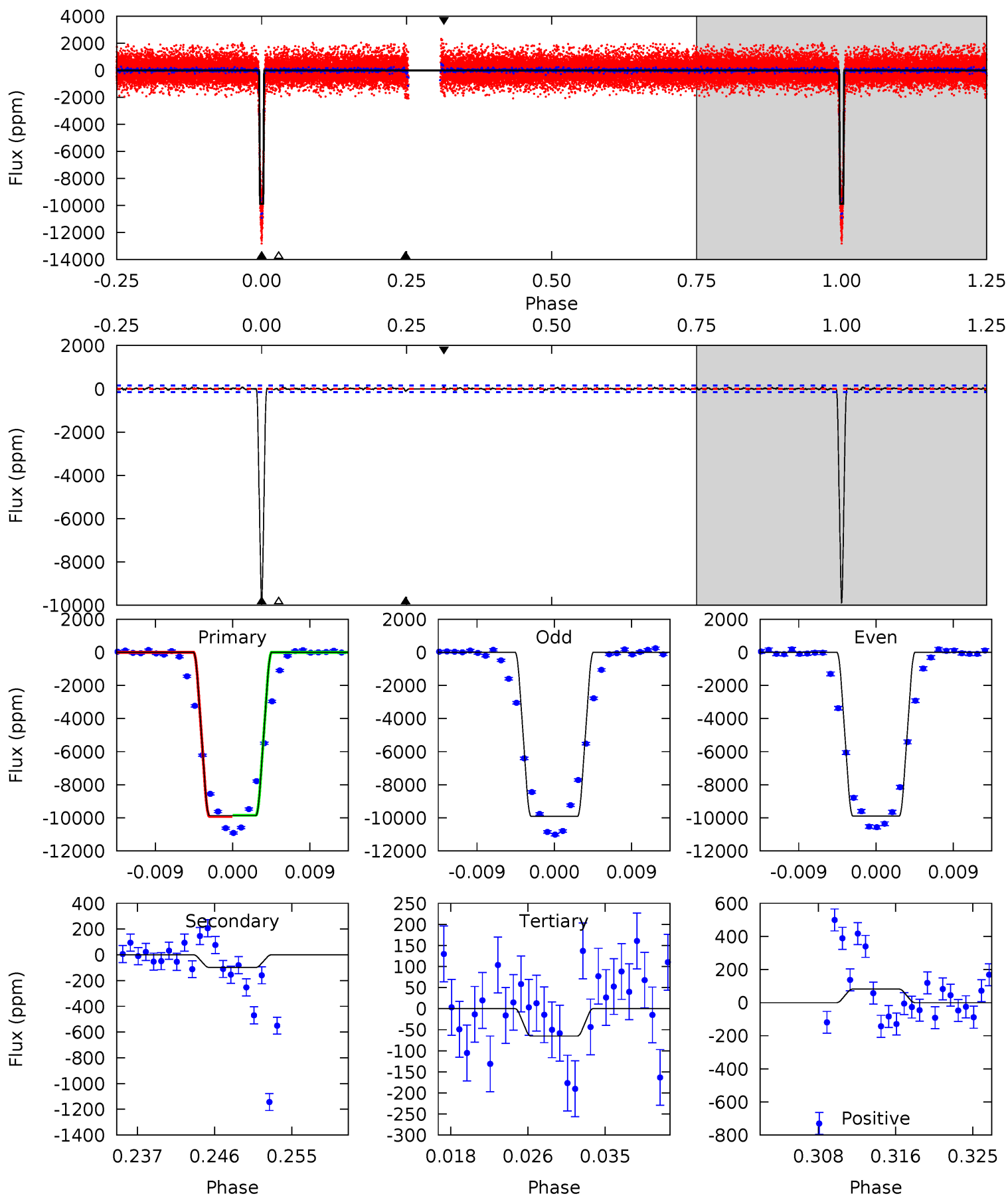
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
381.0	6.72	5.31	5.75	4.97	2.47	2.14	375.6	375.2	1.41	0.97	4.37	1.00	0.01	1.18



Alt Model-Shift Uniqueness Test

011044779-02, P = 15.608547 Days, E = 139.926601 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
335.2	3.34	2.21	2.78	5.05	2.62	0.76	333.0	332.4	1.13	0.56	0.41	1.00	0.01	0



Stellar Parameters For KIC 011044779

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5569^{+182}_{-182}	$4.566^{+0.032}_{-0.168}$	$-0.080^{+0.300}_{-0.300}$	$0.829^{+0.201}_{-0.080}$	$0.928^{+0.091}_{-0.112}$	$2.295^{+0.482}_{-1.050}$
	+3%/-3%	+1%/-4%	+375%/-375%	+24%/-10%	+10%/-12%	+21%/-46%
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 011044779-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-202 ± 30	$14.82^{+2.84}_{-2.55}$	929^{+51}_{-46}	2499^{+131}_{-105}	$6.899^{+3.414}_{-2.228}$
Alt.	-98 ± 29	$9.82^{+2.52}_{-2.14}$	929^{+56}_{-43}	2534^{+196}_{-170}	$7.636^{+5.700}_{-3.298}$

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 $A_{obs} \gg 1.0$

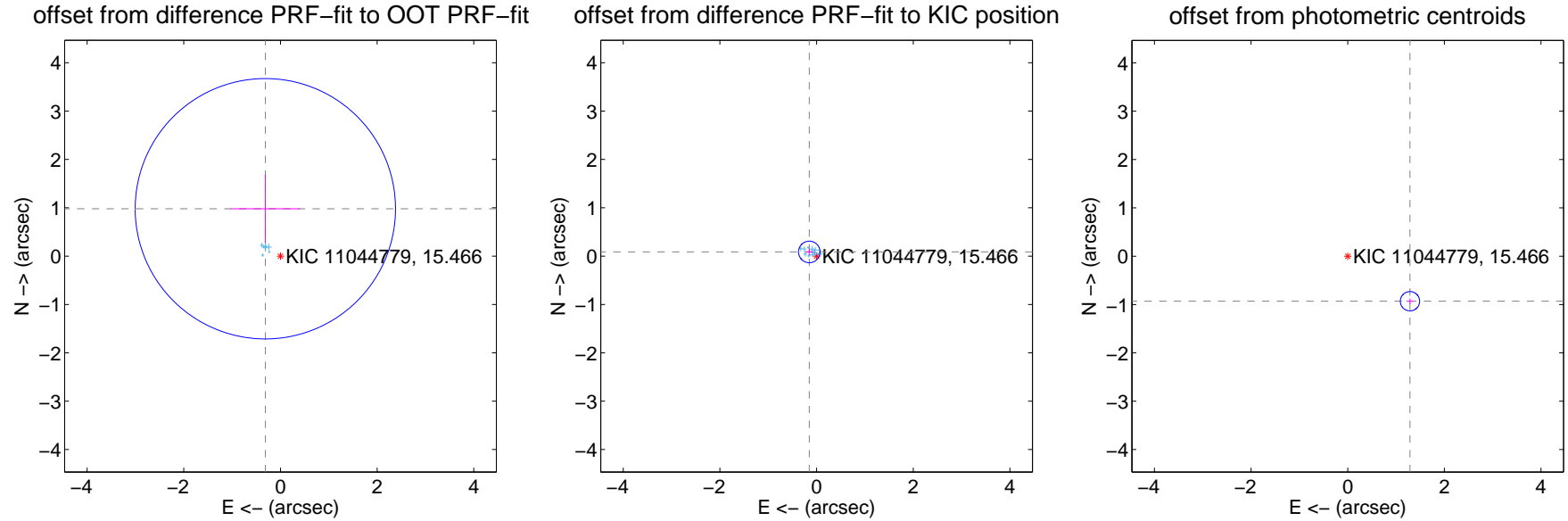
DV Centroid Data

Supplemental centroid analysis for 011044779-02. Kepler magnitude: 15.47. Transit SNR 180.64

There are 11 quarters with good PRF difference image offsets

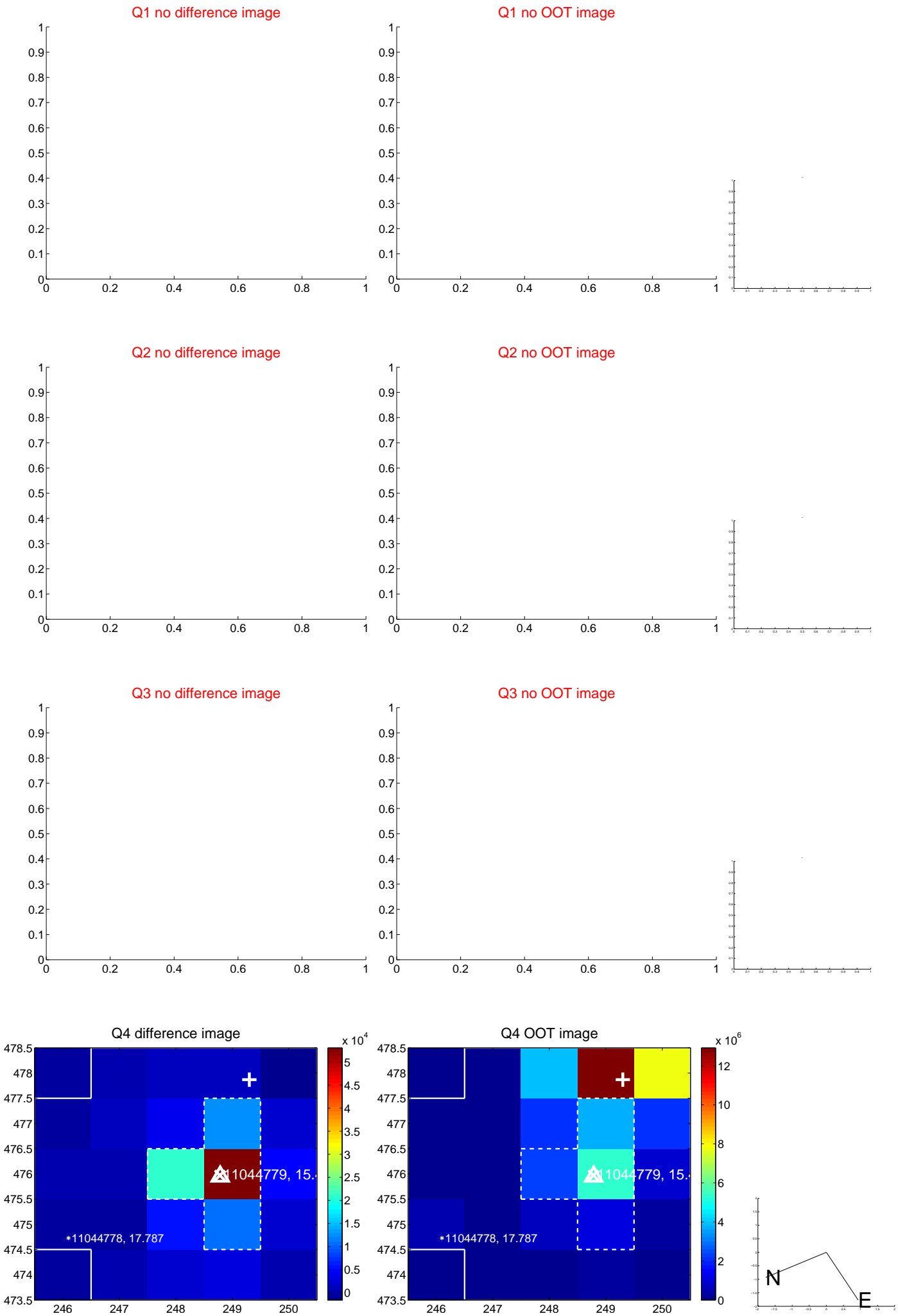
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.029 ± 0.897	1.15	0.313 ± 0.717	0.980 ± 0.715
PRF-fit source offset from KIC position	0.174 ± 0.074	2.34	0.150 ± 0.075	0.087 ± 0.069
photometric centroid source offset	1.59 ± 0.07	23.87	-1.29 ± 0.07	-0.93 ± 0.06

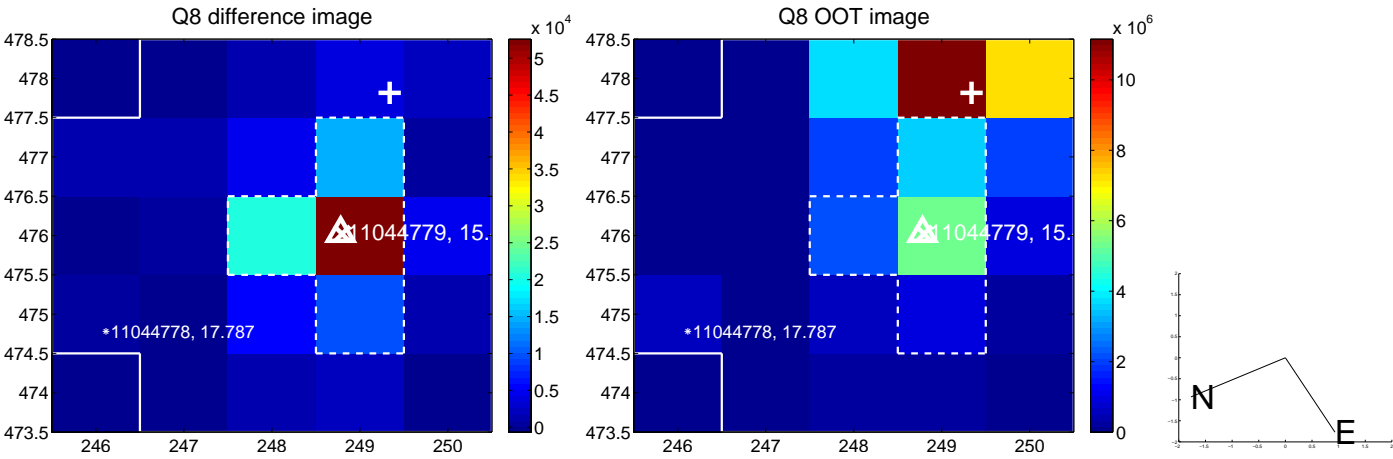
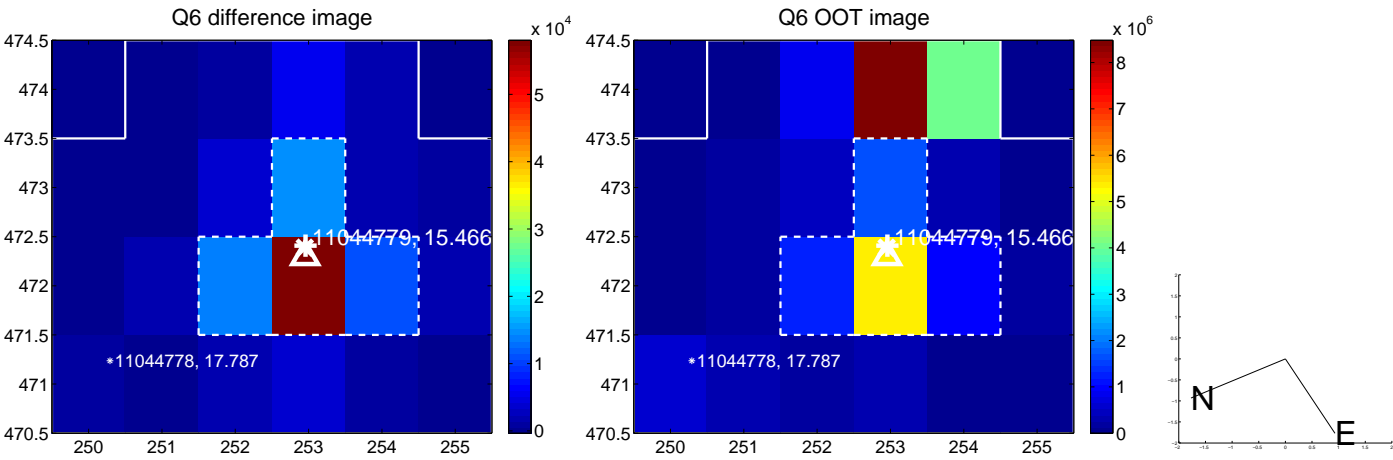
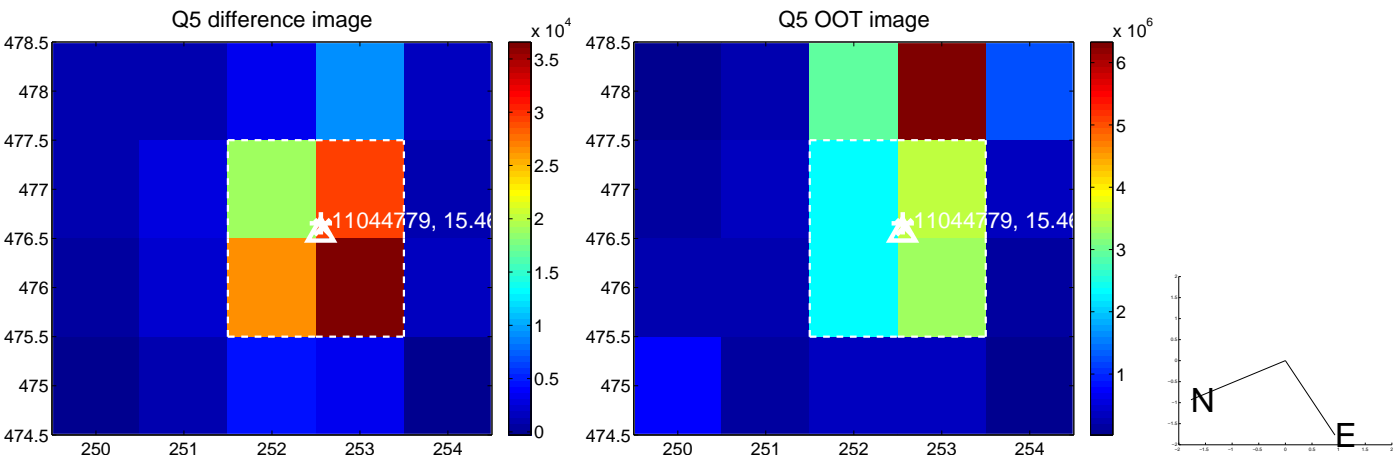


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

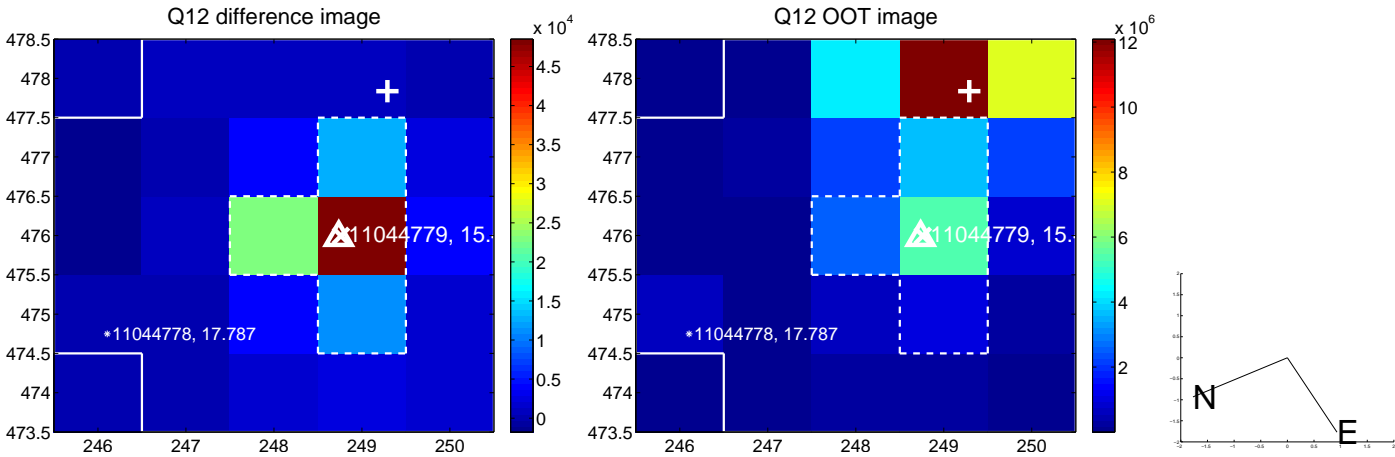
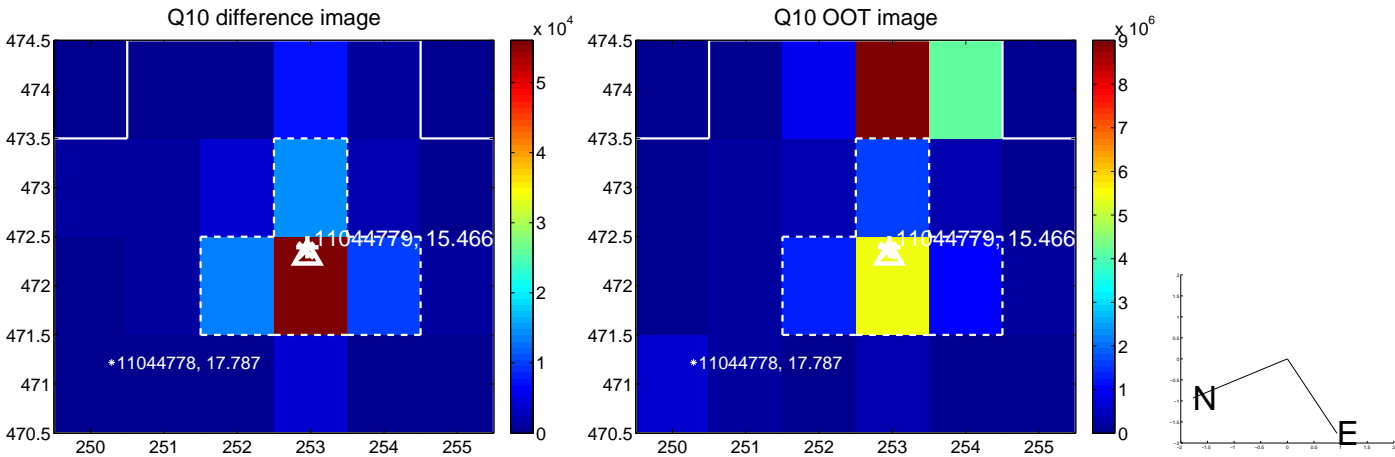
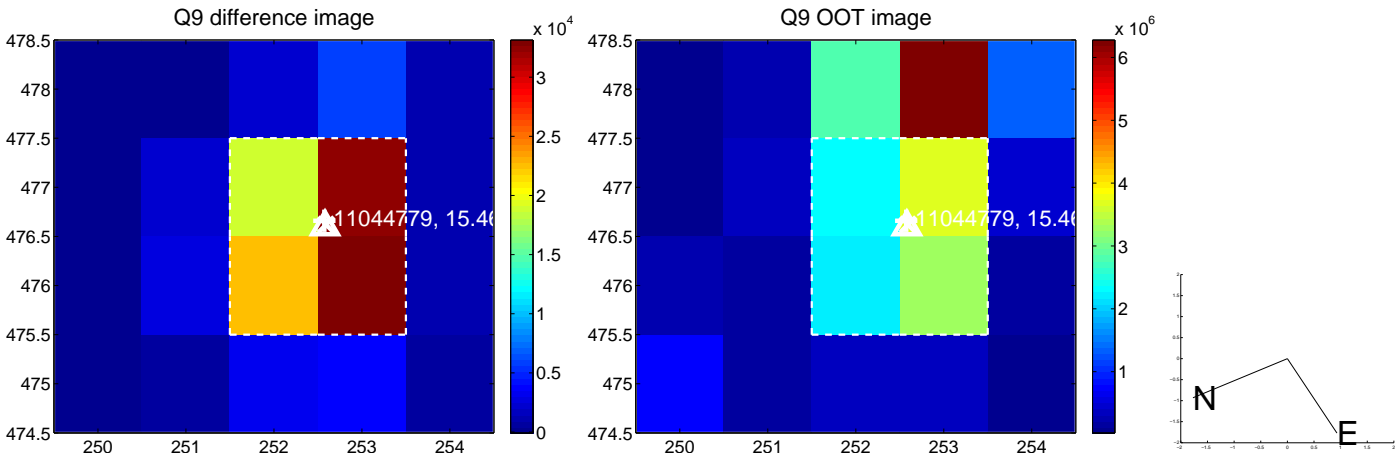
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



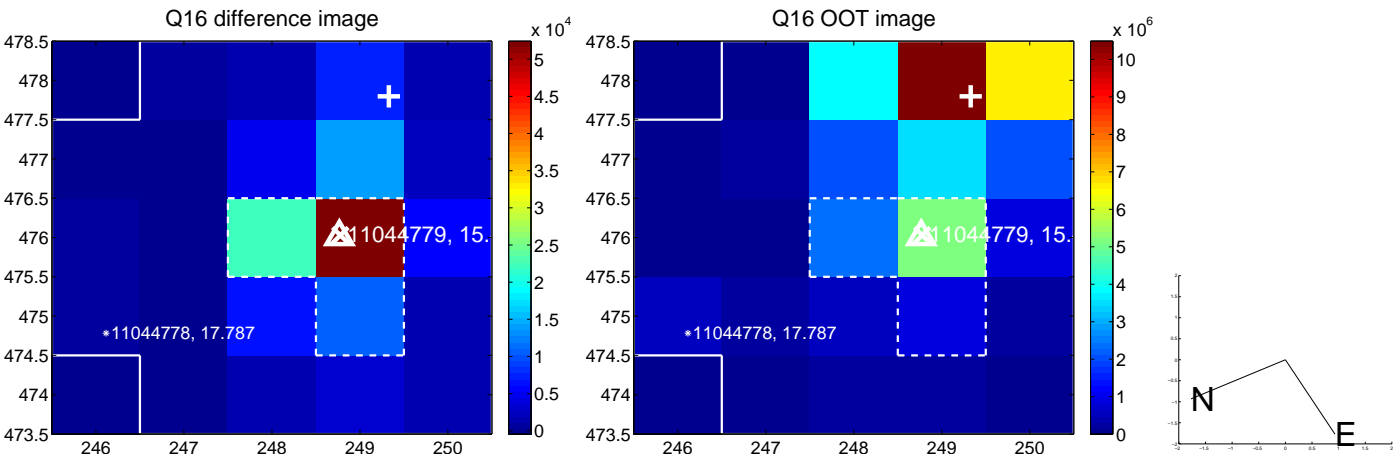
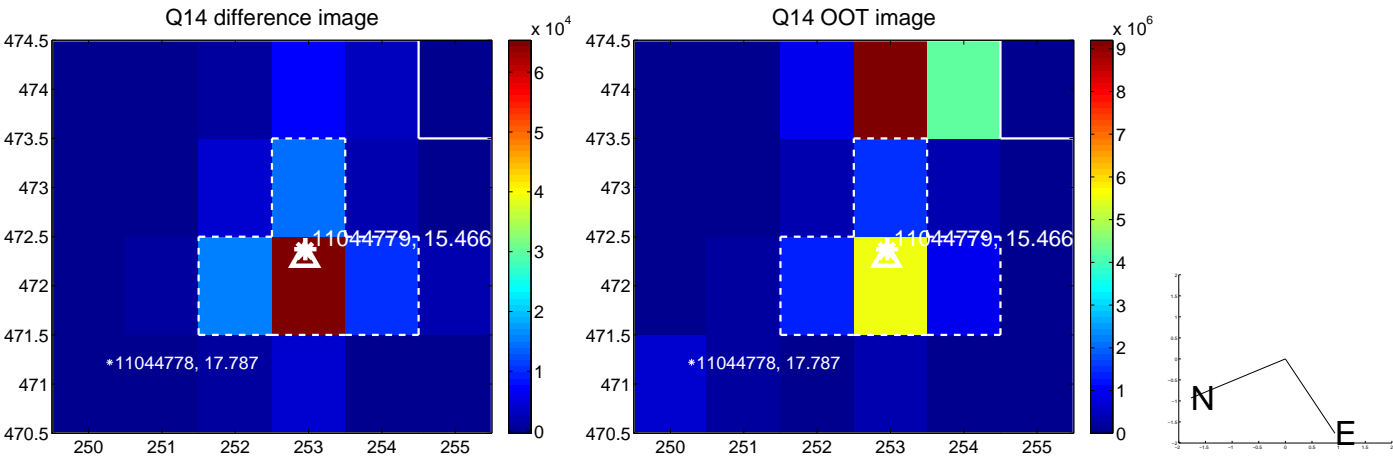
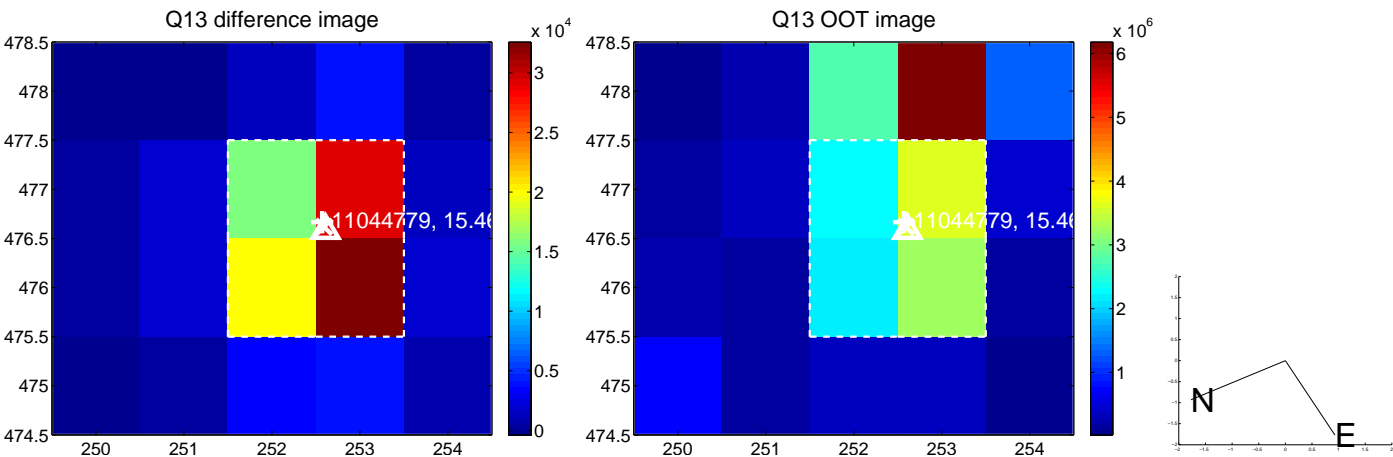
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



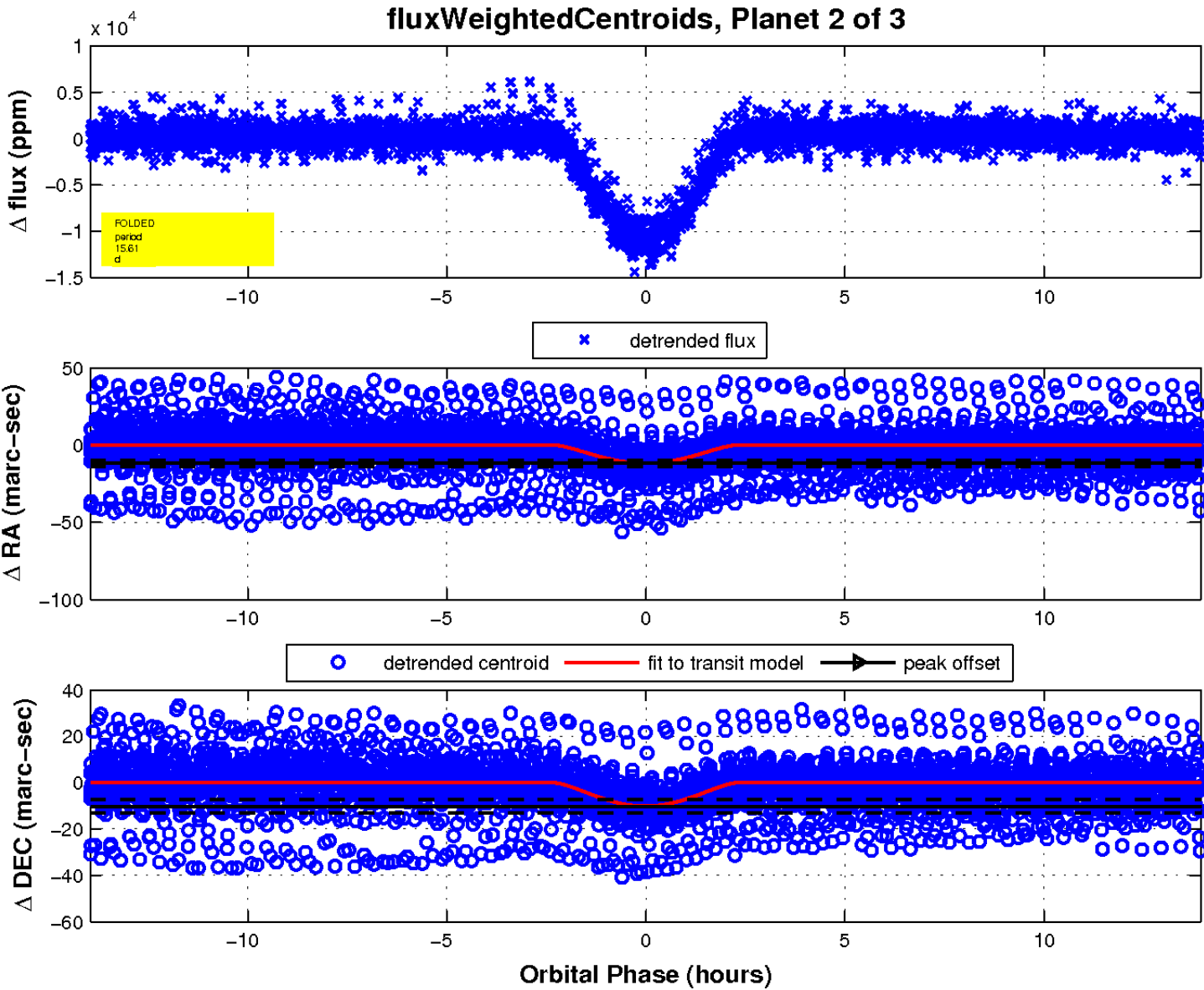
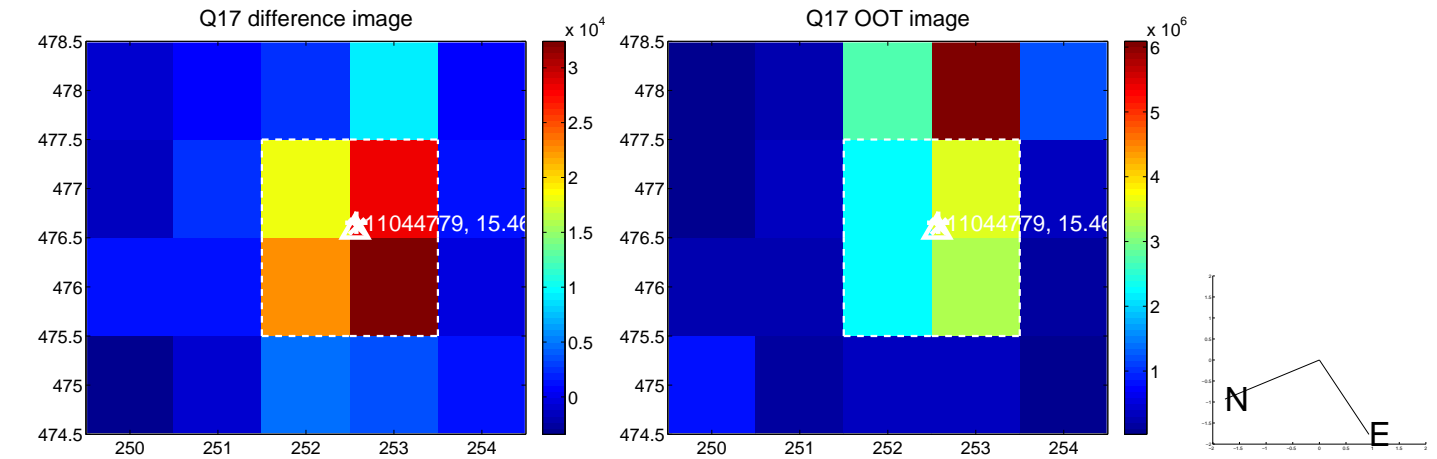
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

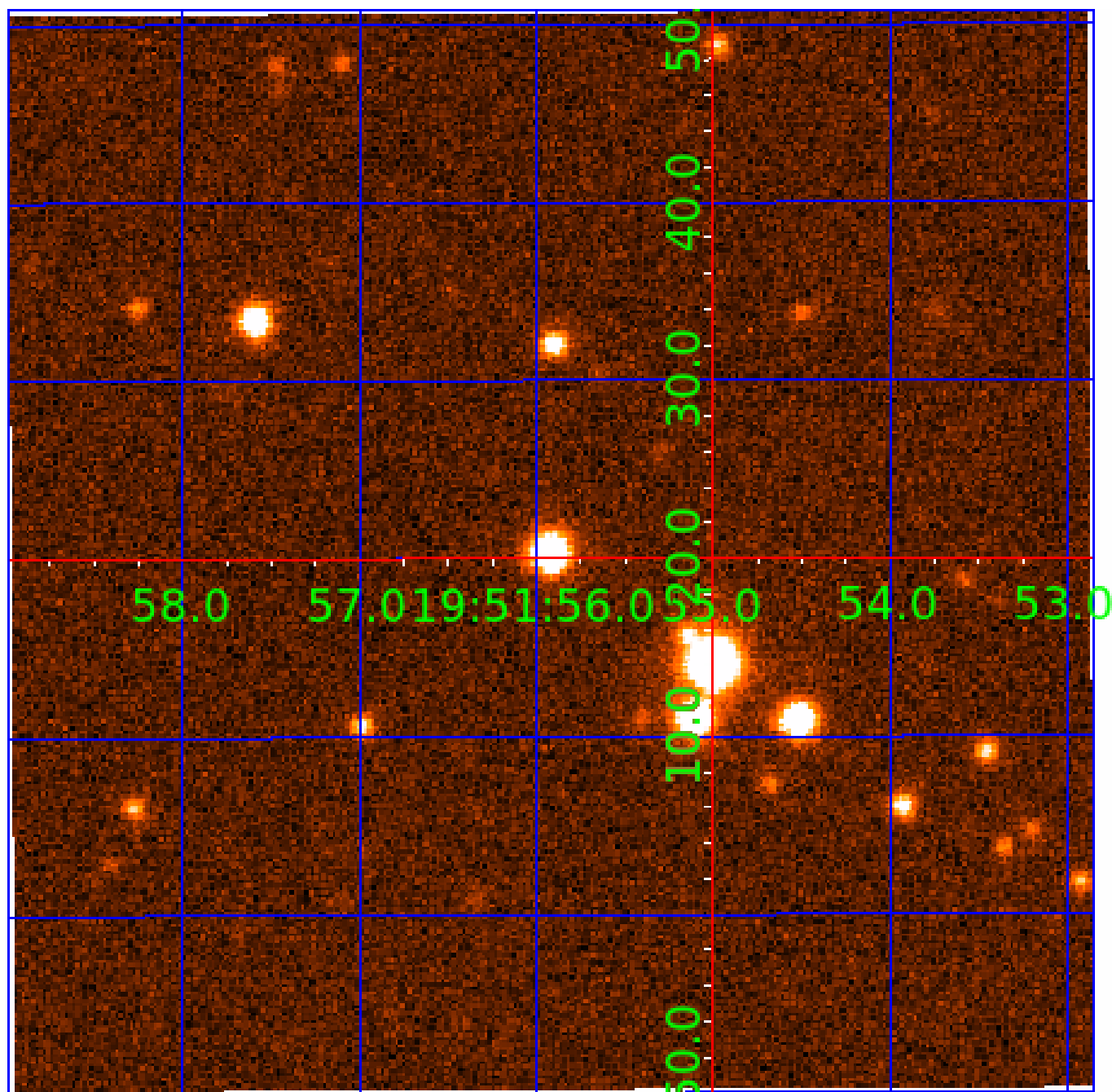


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011044779

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})
011044779-01	OBS	3327.01	15.608620	144.303022	34121.8	6.658	531.1	455.0	0.83	5569	25.17	41.80
011044779-02	OBS	No	15.608612	139.923351	11406.2	4.650	186.2	180.6	0.83	5569	14.23	41.80
011044779-03	OBS	No	162.081889	288.796107	1772.5	4.228	9.1	6.8	0.83	5569	5.92	1.84

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011044779-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE—CENT_KIC_POS
011044779-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_KIC_POS
011044779-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS—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.

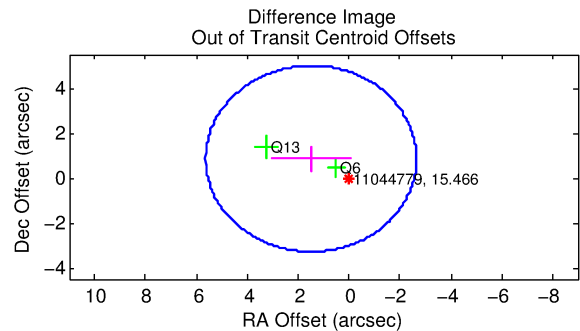
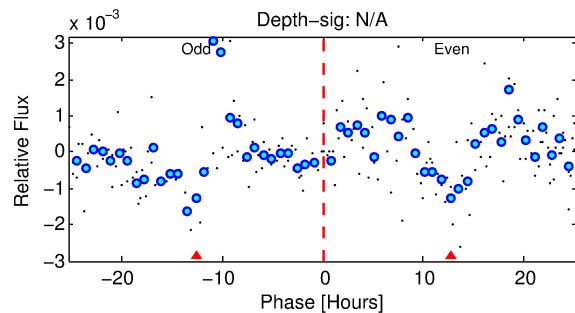
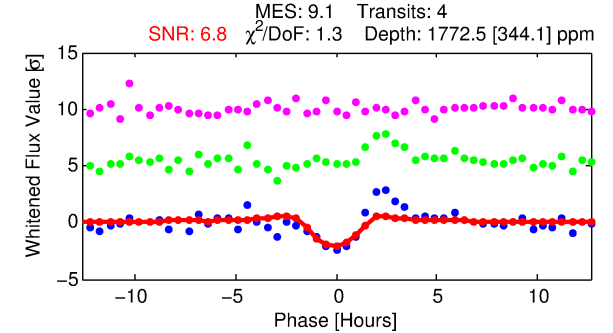
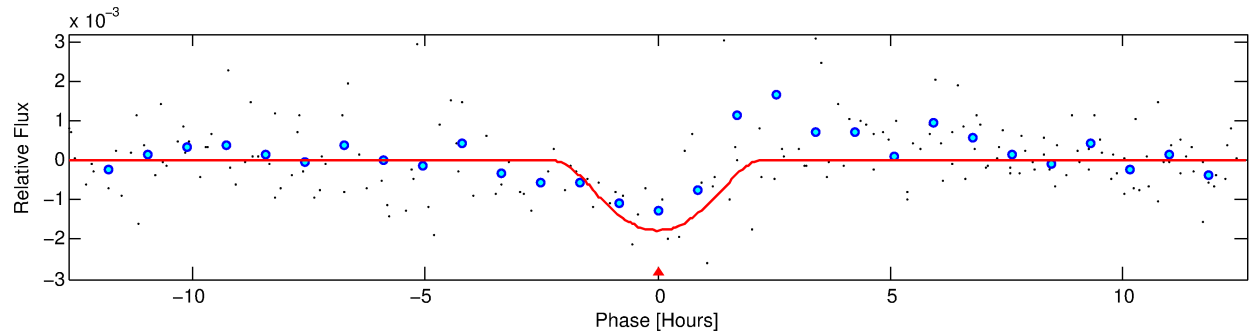
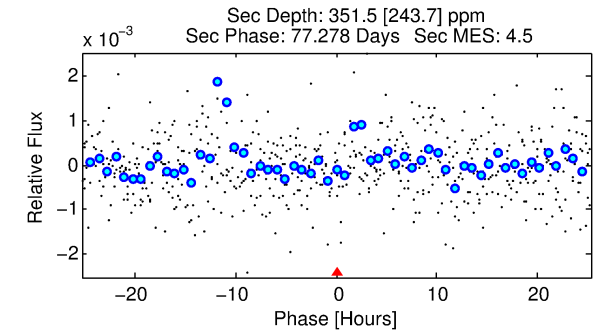
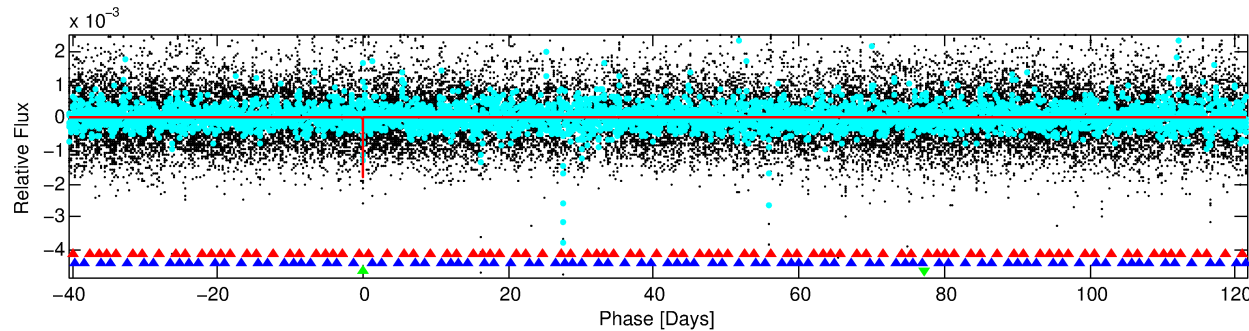
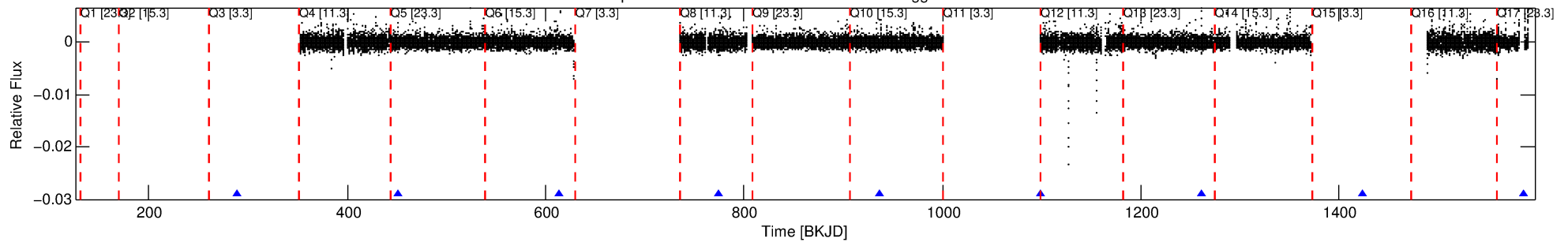
Ephemeris Match Information For 011044779-03

No Significant Match Found

DV One-Page Summary

KIC: 11044779 Candidate: 3 of 3 Period: 162.082 d
KOI: K03327 Corr: No Ephemeris Match

Kp: 15.47 R*: 0.83 Rs Teff: 5569.0 K Logg: 4.57 Fe/H: -0.080



DV Fit Results:

Period = 162.08189 [0.00351] d
Epoch = 288.7961 [0.0151] BKJD
Rp/R* = 0.0655 [0.2550]
a/R* = 118.41 [128.40]
b = 0.99 [0.42]
Seff = 1.85 [0.61]
Teq = 297 [25] K
Rp = 5.92 [23.11] Re
a = 0.5665 [0.1171] AU
Ag = 1769.90 [13854.66] [0.13σ]
Teffp = 2980 [5829] K [0.46σ]

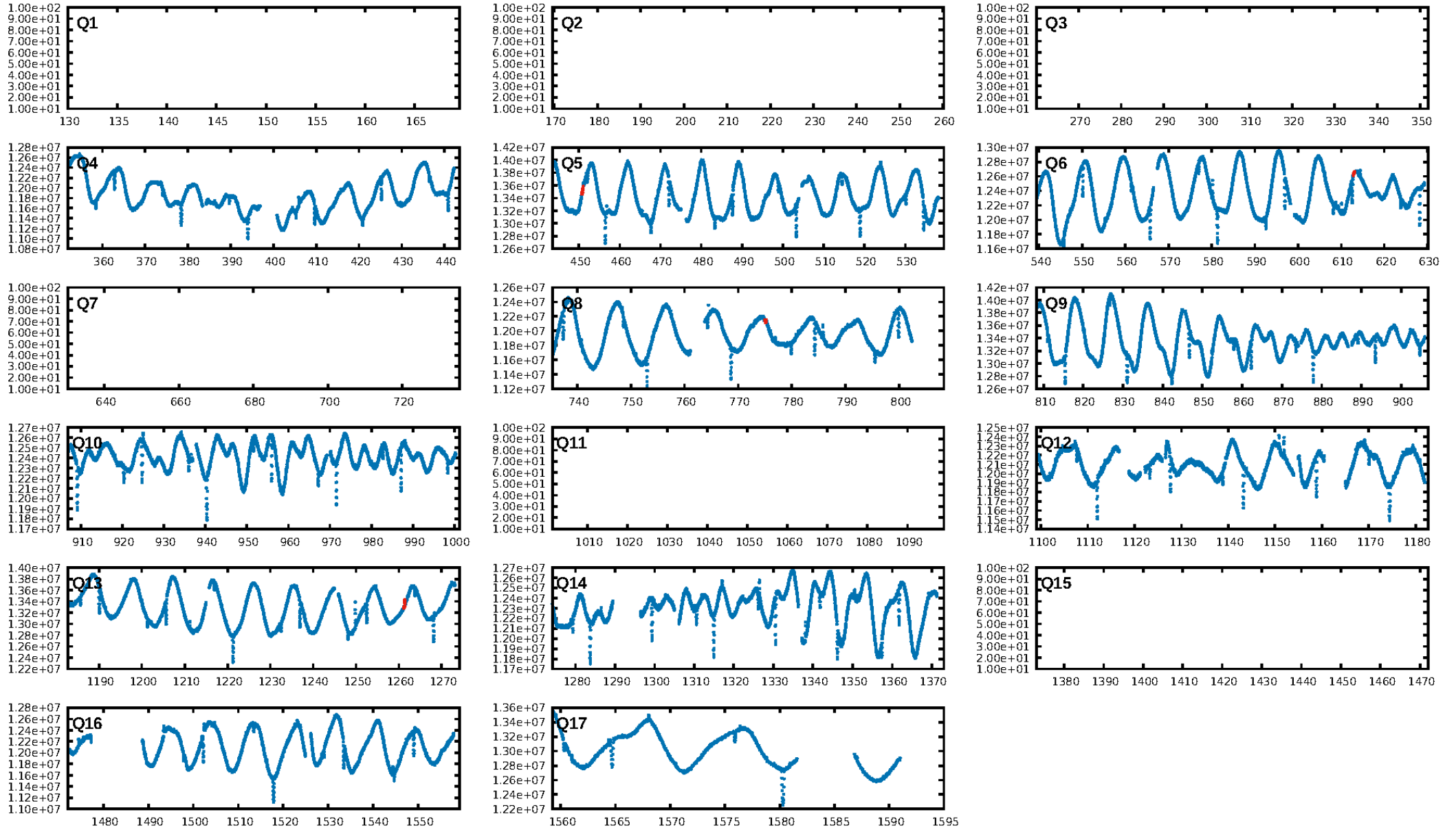
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [445.73σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.7%
ModelChiSquareGof-sig: 93.5%
Bootstrap-pfa: 3.09e-11
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 2.13
Centroid-sig: 3.6%
Centroid-so: 2.094 arcsec [1.03σ]
OotOffset-rm: 1.719 arcsec [1.25σ]
KicOffset-rm: 1.508 arcsec [1.11σ]
OotOffset-st: 1/0/0/1 [2]
KicOffset-st: 1/0/0/1 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 0.75 [3/4]

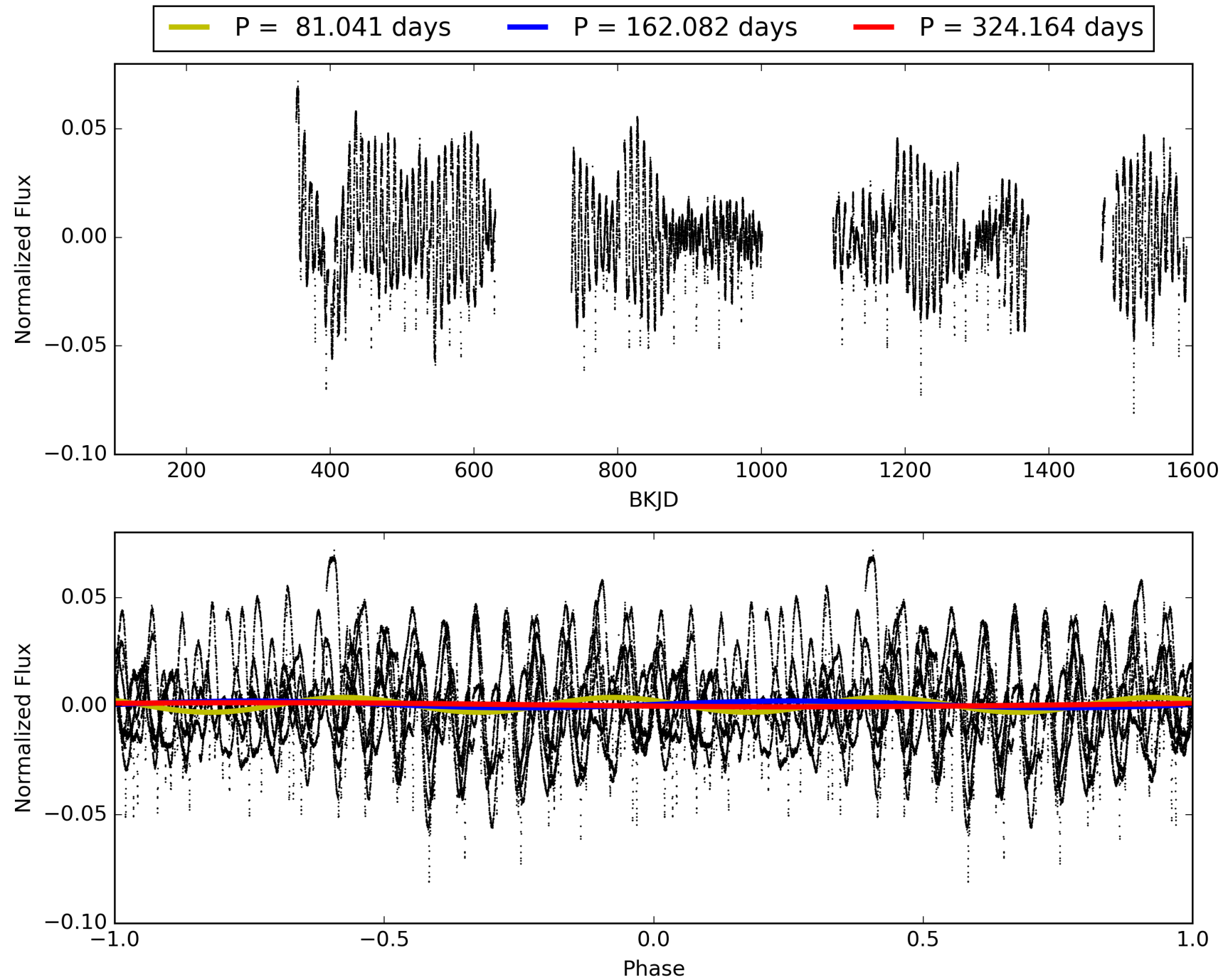
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:32:07 Z

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

TCE 011044779-03, PDC Light Curves

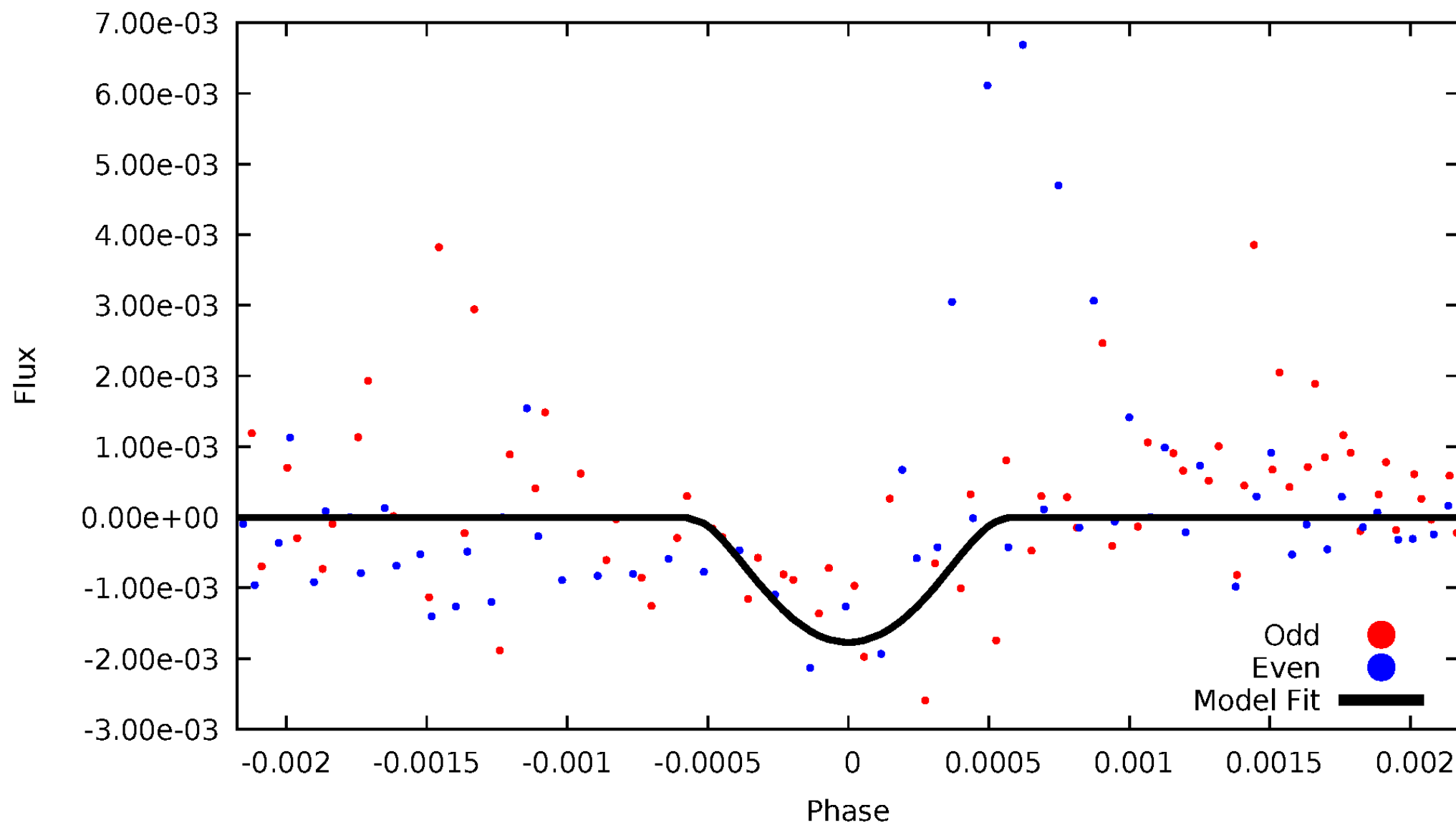


TCE 011044779-03



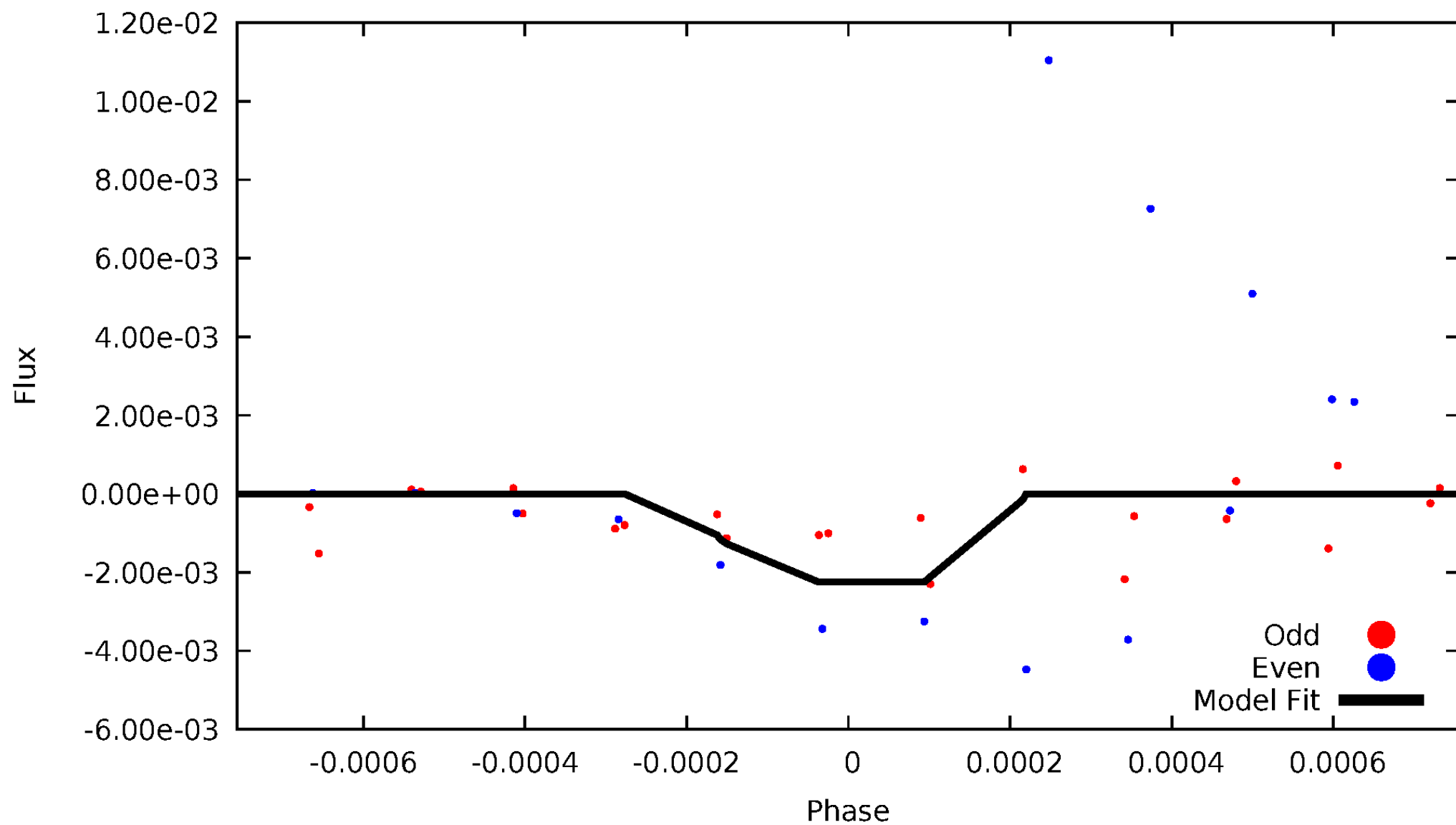
DV Odd/Even

TCE 011044779-03

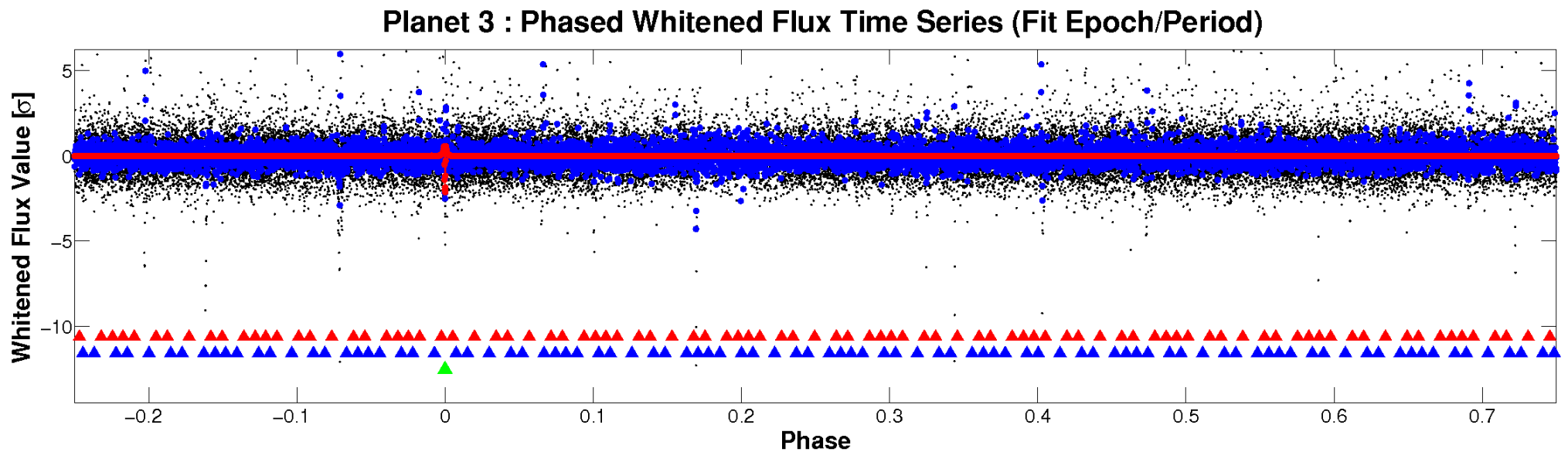
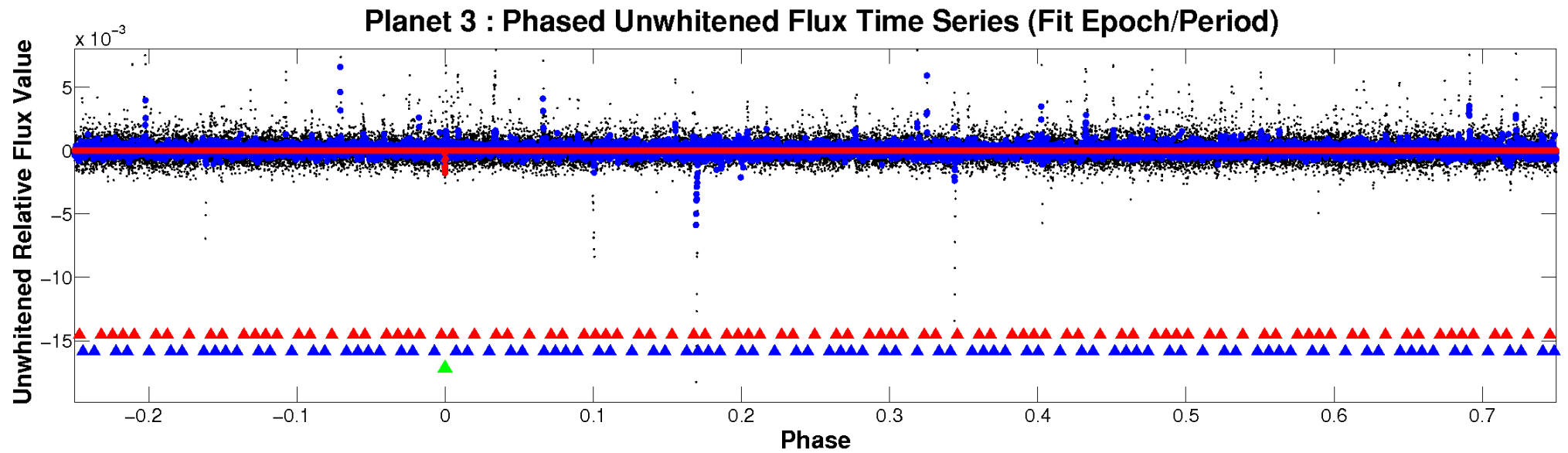


ALT Odd/Even

TCE 011044779-03

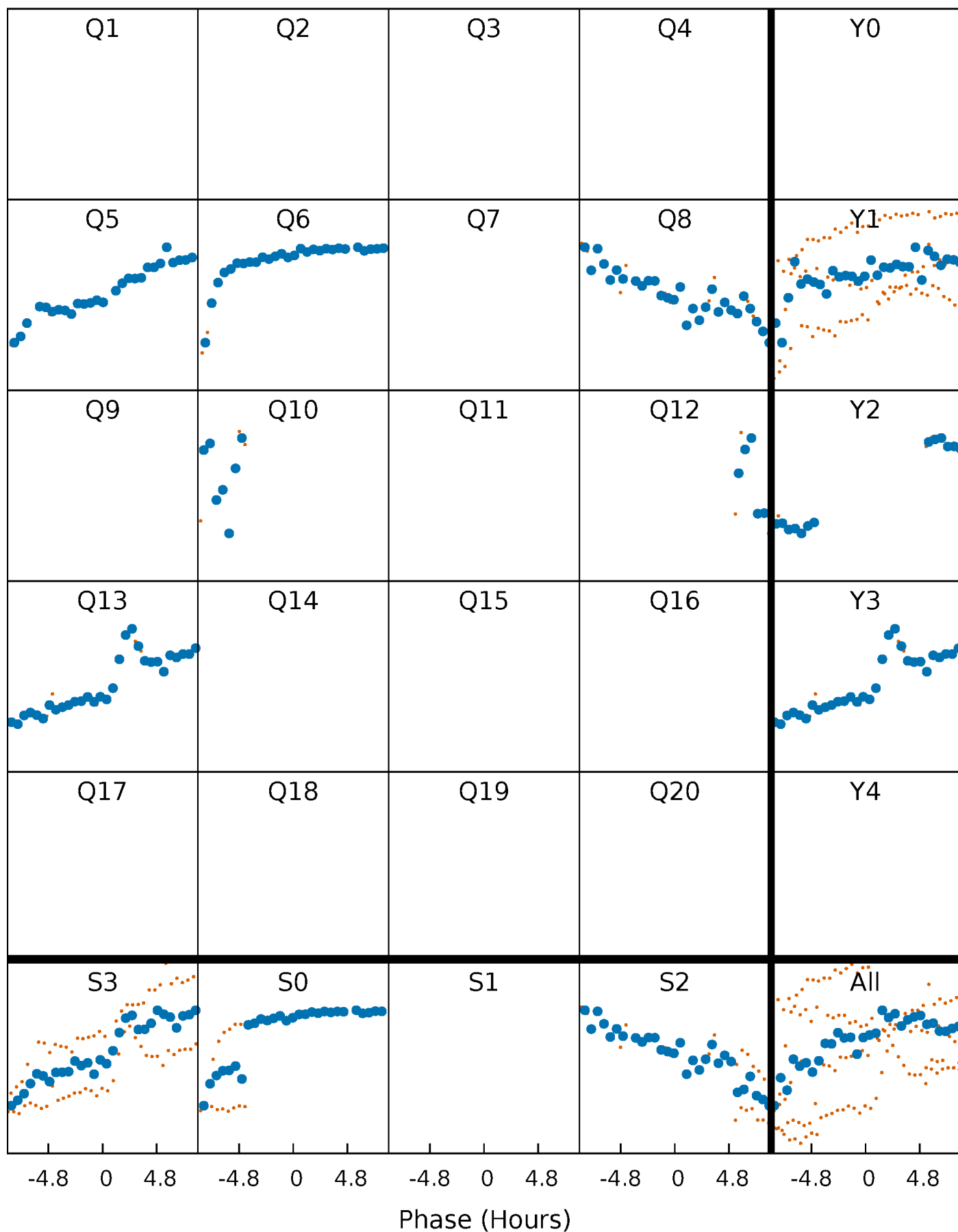


Non-Whitened Vs. Whitened Light Curve



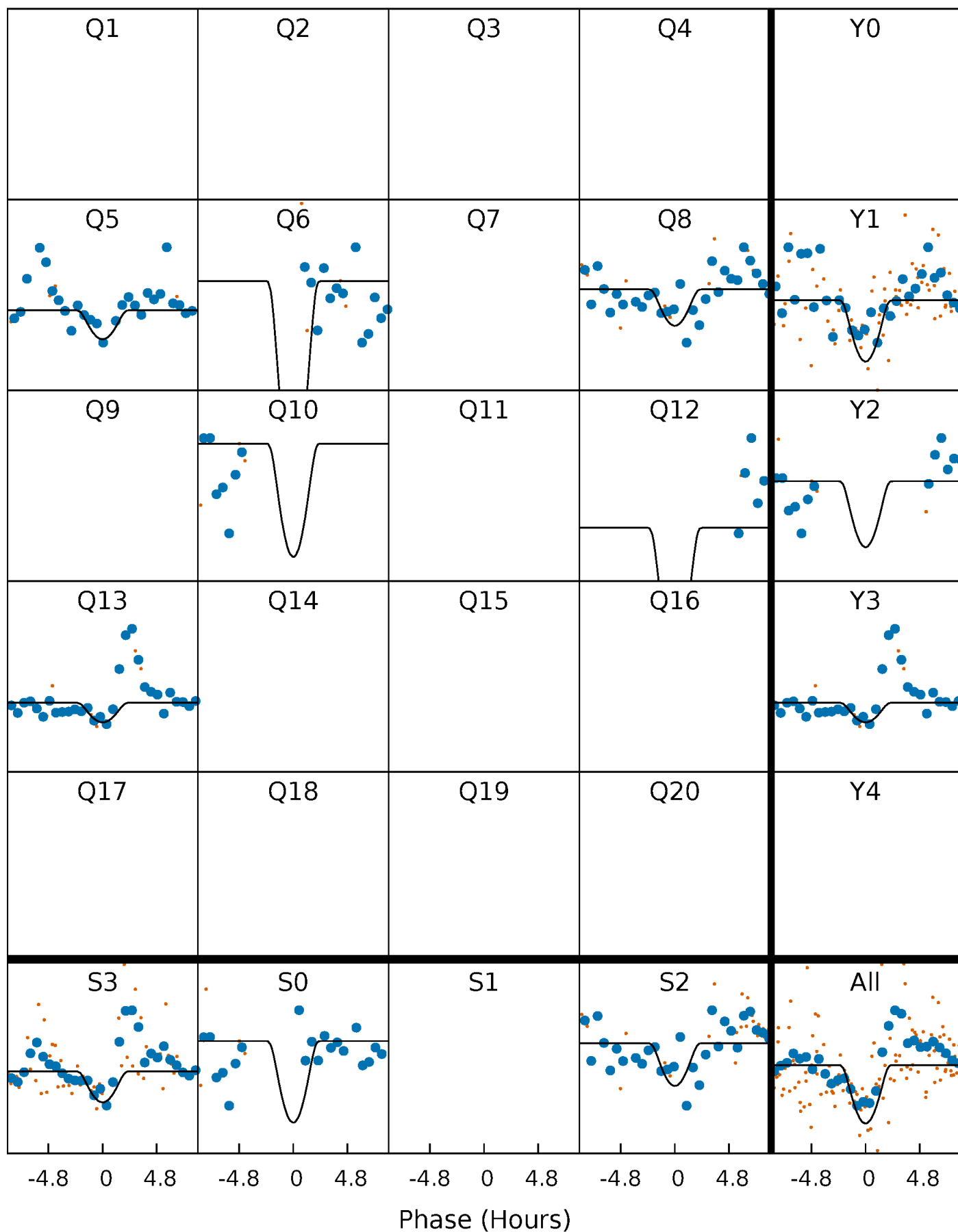
PDC Quarter-Phased Transit Curves

TCE 011044779-03 P=162.081889 Days $T_0=288.796107$ (BKJD)



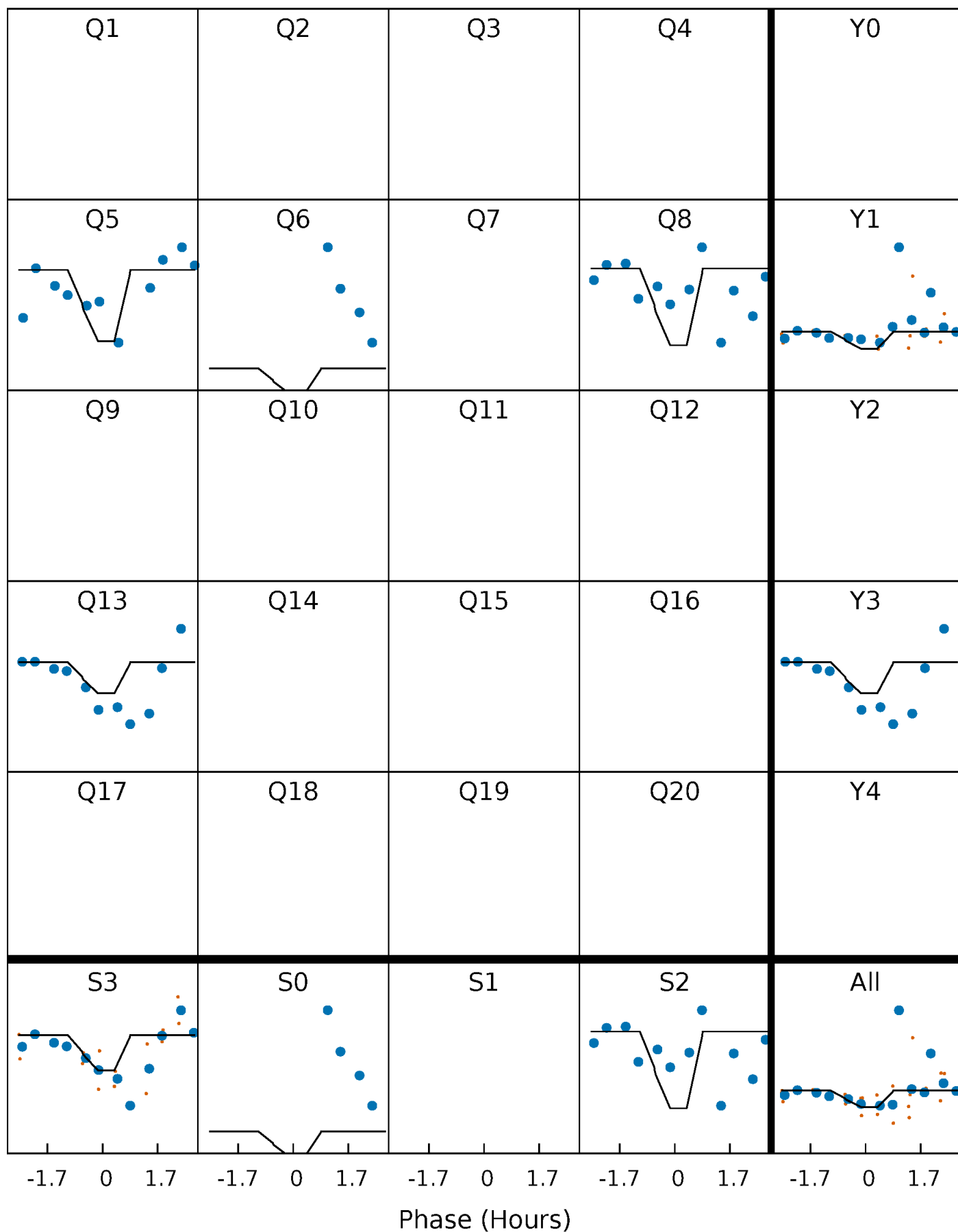
DV Quarter-Phased Transit Curves

TCE 011044779-03 P=162.081889 Days $T_0=288.796107$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

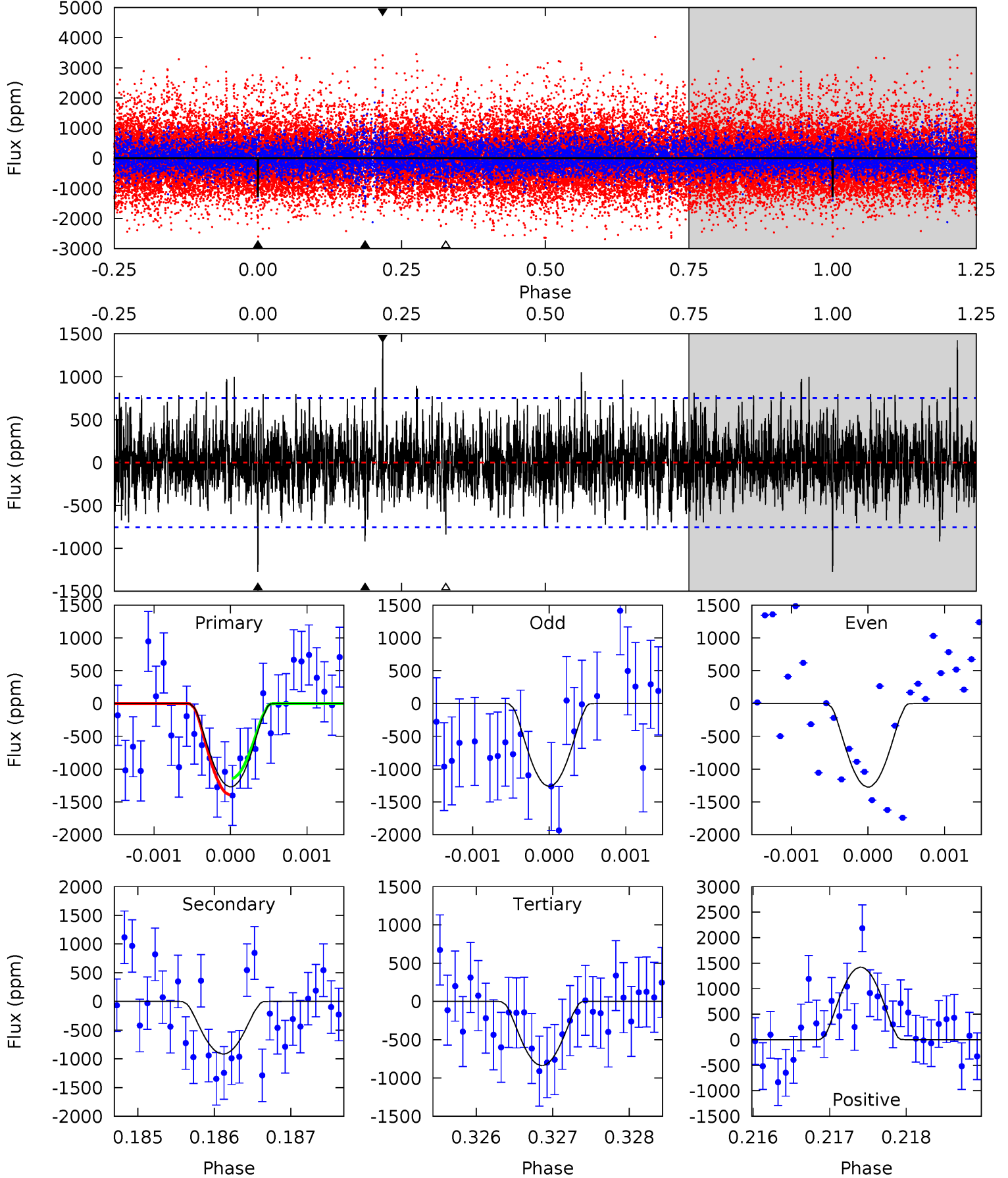
TCE 011044779-03 P=162.080003 Days $T_0=288.790695$ (BKJD)



DV Model-Shift Uniqueness Test

011044779-03, P = 162.081889 Days, E = 288.796107 Days

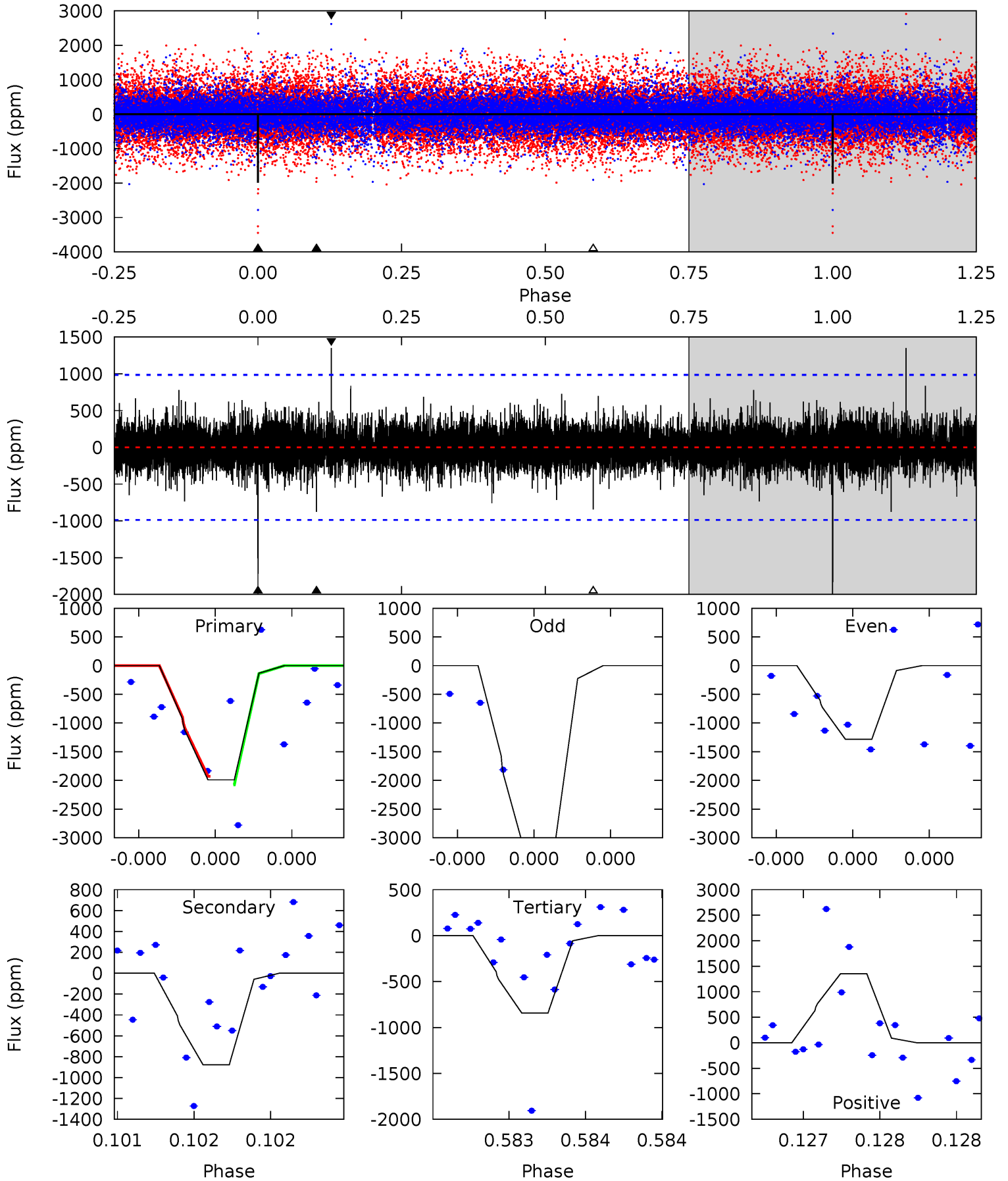
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.18	6.61	6.04	10.3	5.44	3.27	1.83	3.13	-1.08	0.57	-3.65	0.04	0.70	0.53	0.90



Alt Model-Shift Uniqueness Test

011044779-03, P = 162.080003 Days, E = 288.790695 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	5.00	4.80	7.71	5.62	3.55	1.00	6.55	3.64	0.20	-2.71	5.29	1.14	0.40	0.43



Stellar Parameters For KIC 011044779

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5569^{+182}_{-182}	$4.566^{+0.032}_{-0.168}$	$-0.080^{+0.300}_{-0.300}$	$0.829^{+0.201}_{-0.080}$	$0.928^{+0.091}_{-0.112}$	$2.295^{+0.482}_{-1.050}$
	+3%/-3%	+1%/-4%	+375%/-375%	+24%/-10%	+10%/-12%	+21%/-46%
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 011044779-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-916 ± 139	$19.41^{+18.87}_{-13.53}$	424^{+26}_{-18}	2829^{+1322}_{-423}	400^{+4090}_{-293}
Alt.	-877 ± 175	$17.61^{+19.13}_{-12.45}$	426^{+24}_{-19}	2910^{+1368}_{-501}	494^{+5003}_{-388}

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 $A_{obs} \gg 1.0$

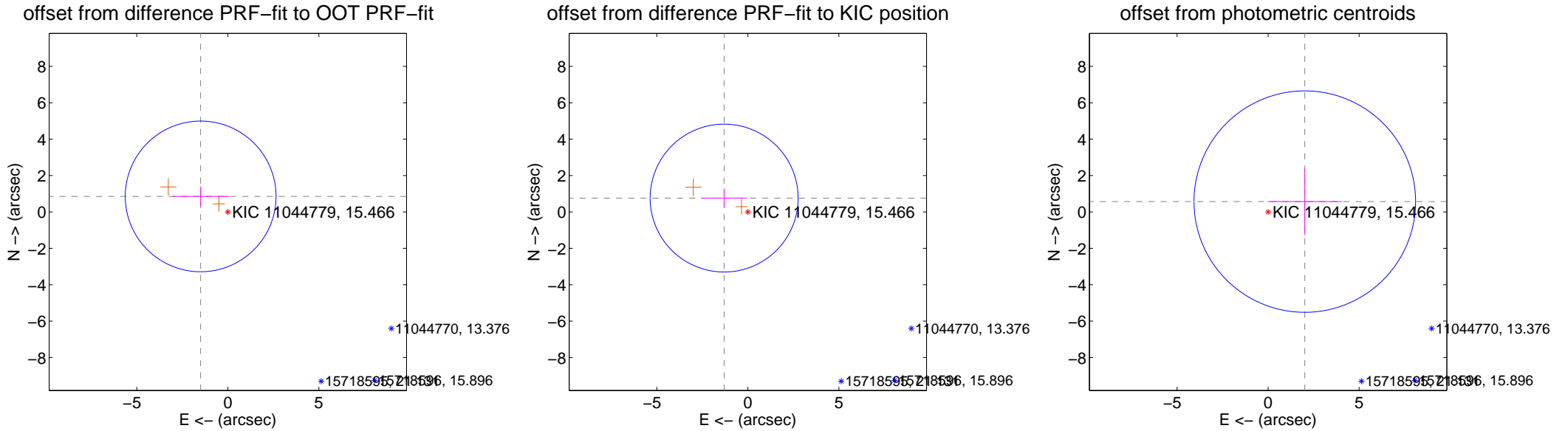
DV Centroid Data

Supplemental centroid analysis for 011044779-03. Kepler magnitude: 15.47. Transit SNR 6.77

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.27 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.719 ± 1.381	1.25	1.492 ± 1.560	0.853 ± 0.543
PRF-fit source offset from KIC position	1.508 ± 1.355	1.11	1.301 ± 1.270	0.762 ± 0.516
photometric centroid source offset	2.09 ± 2.03	1.03	-2.02 ± 2.05	0.57 ± 1.81

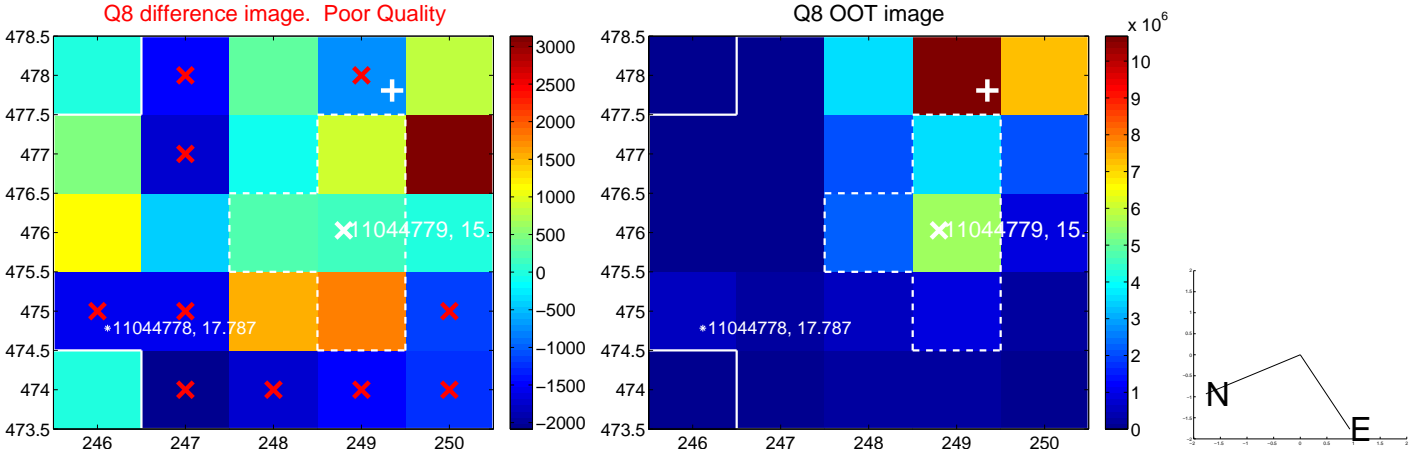
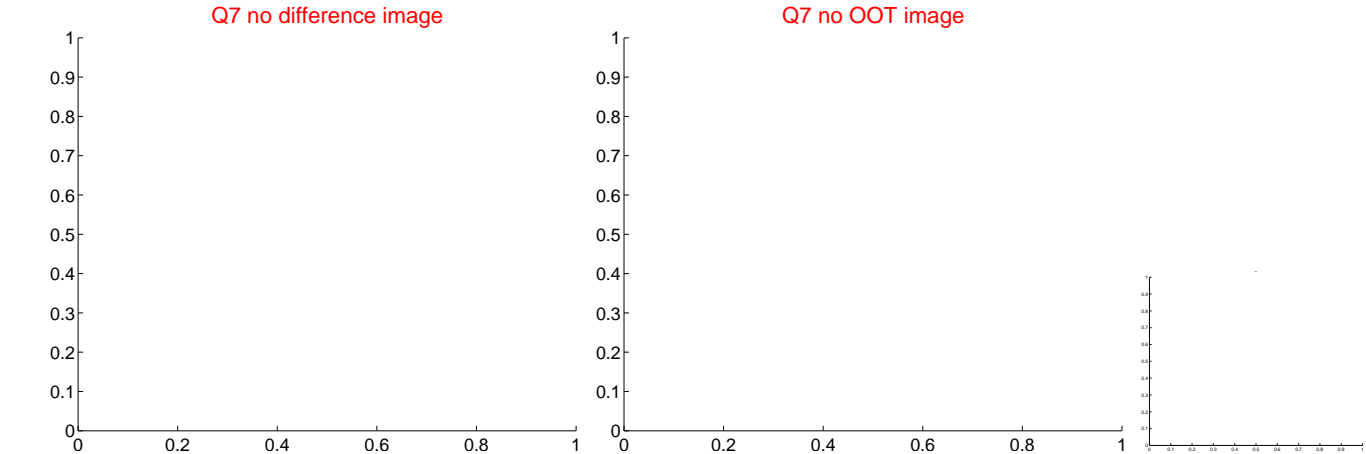
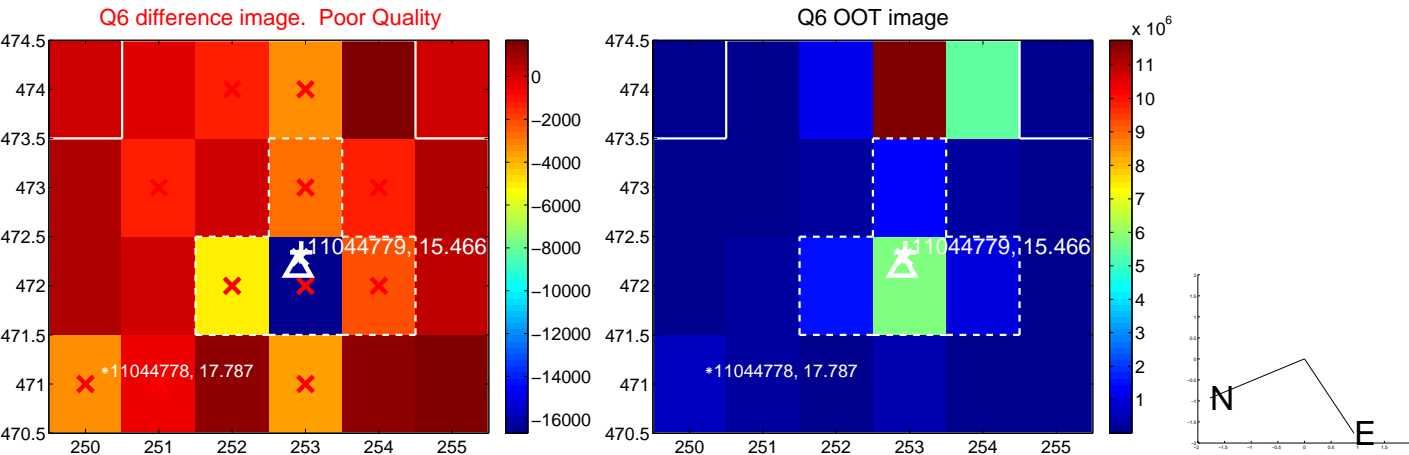
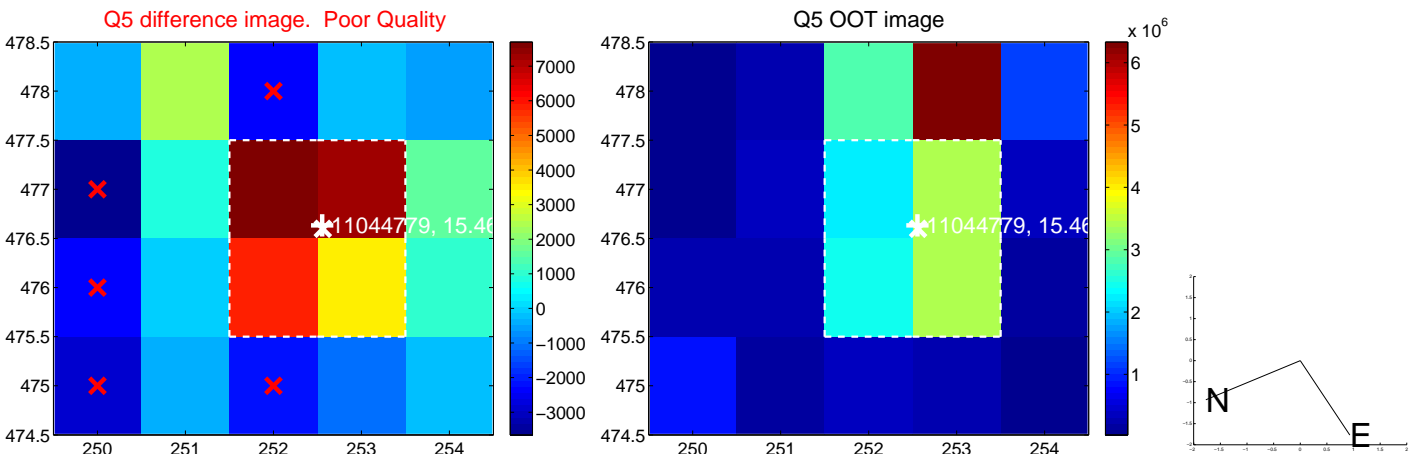


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



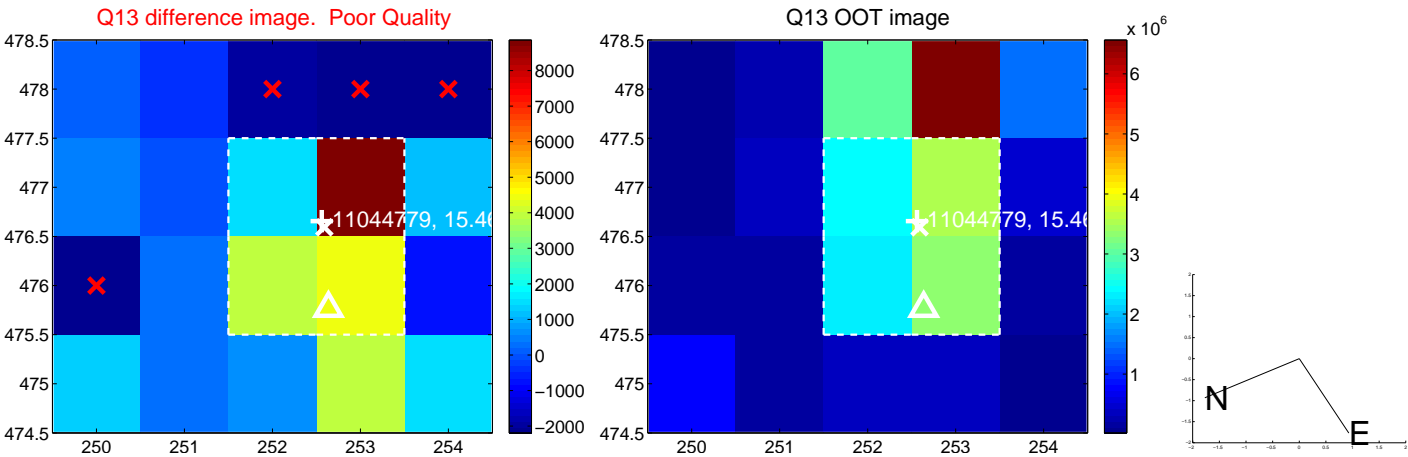
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



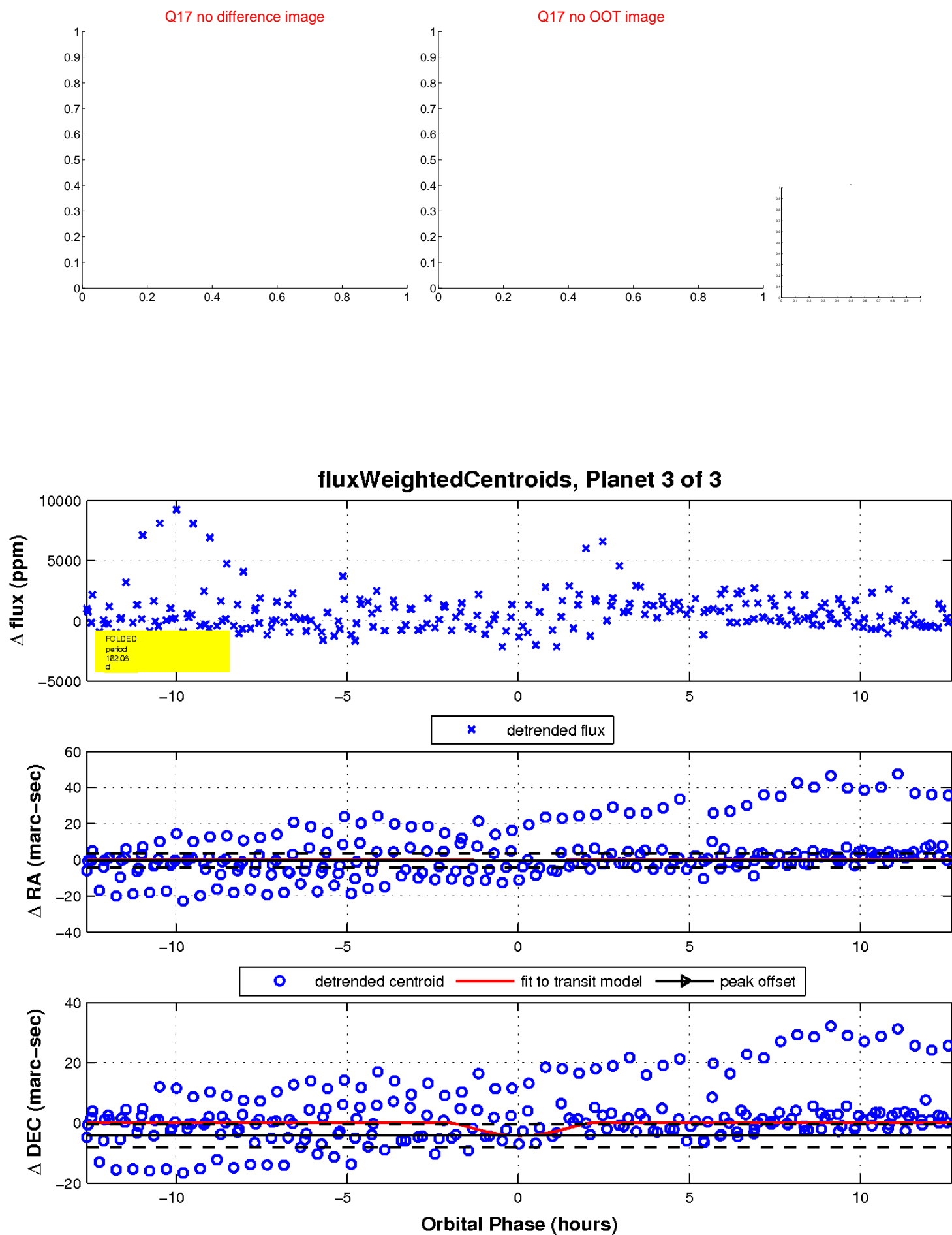
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

