

KIC 007679979

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})
007679979-01	OBS	No	366.851368	370.953729	4720.4	6.891	45.9	30.0	0.85	5692	7.13	0.70
007679979-02	OBS	No	349.120804	415.085384	3043.8	8.565	24.8	23.1	0.85	5692	5.31	0.75
007679979-03	OBS	No	344.672132	421.223012	3814.8	2.993	35.4	19.7	0.85	5692	5.26	0.76
007679979-04	OBS	No	379.500500	420.437274	2362.5	6.186	16.0	11.0	0.85	5692	4.19	0.67
007679979-05	OBS	No	348.950715	409.649207	661.8	12.000	13.0	-1.0	0.85	5692	2.17	0.75

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007679979-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_TER_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

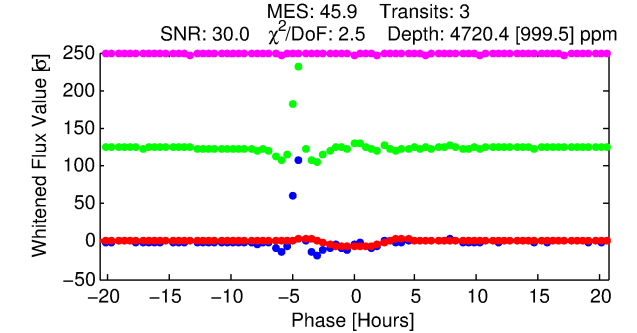
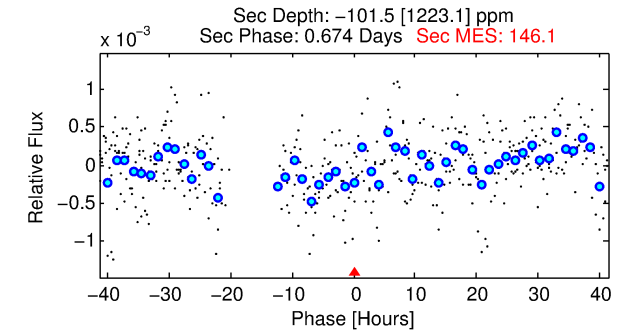
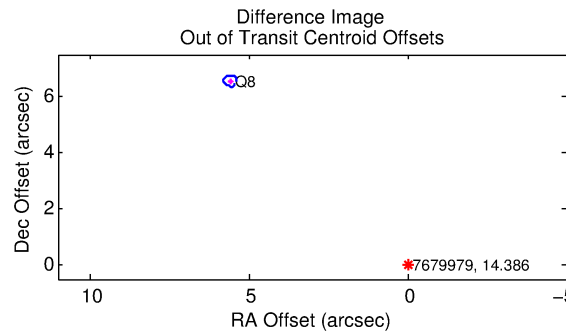
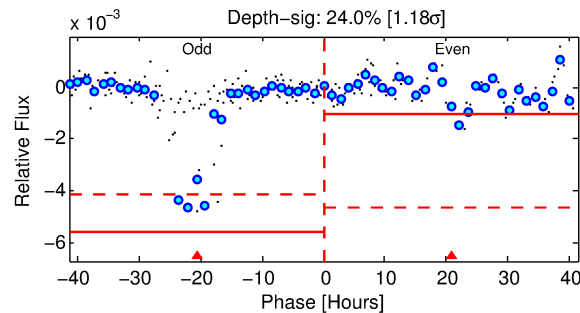
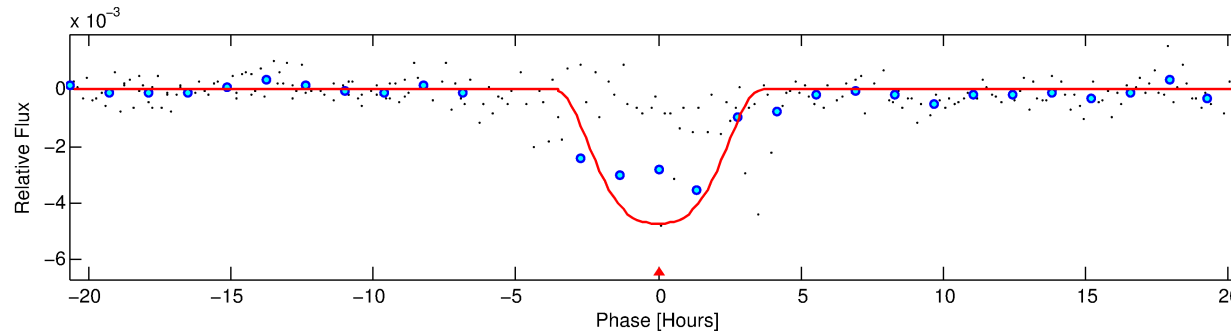
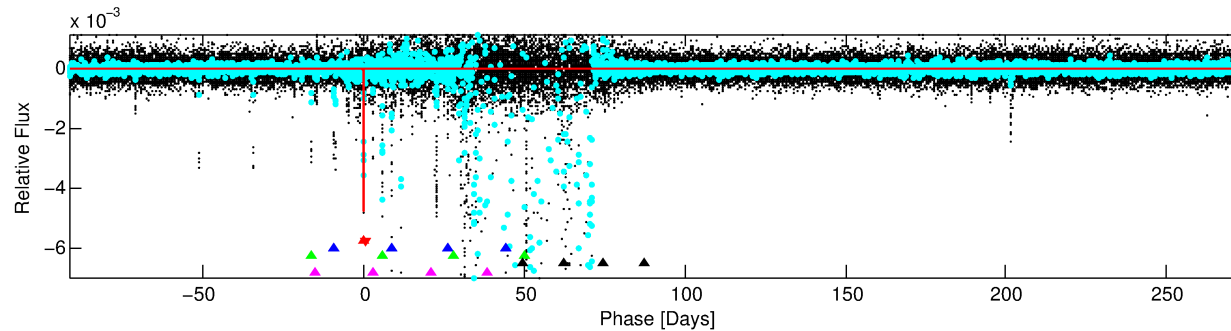
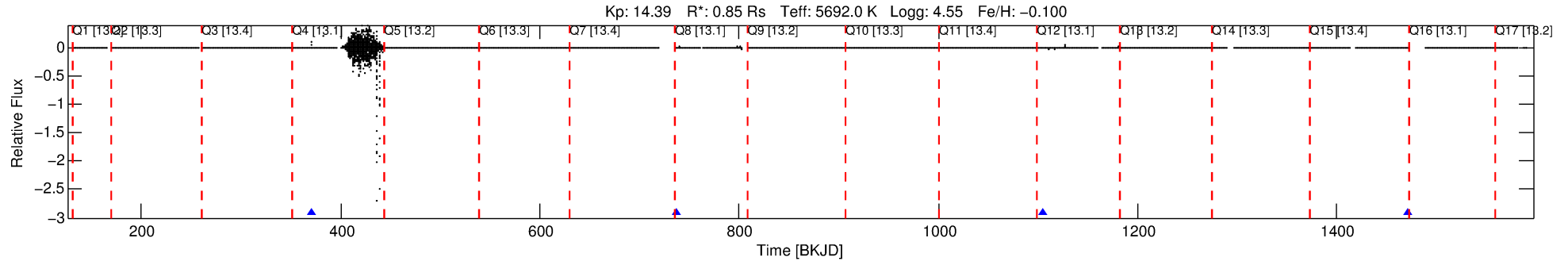
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007679979-01

No Significant Match Found

DV One-Page Summary

KIC: 7679979 Candidate: 1 of 5 Period: 366.851 d



DV Fit Results:

Period = 366.85137 [0.01135] d
Epoch = 370.9537 [0.0152] BKJD
Rp/R* = 0.0768 [0.0117]
a/R* = 230.97 [51.71]
b = 0.91 [0.05]
Seff = 0.70 [0.23]
Teq = 234 [19] K
Rp = 7.13 [2.05] Re
a = 0.9840 [0.2039] AU
Ag = N/A
Teffp = N/A

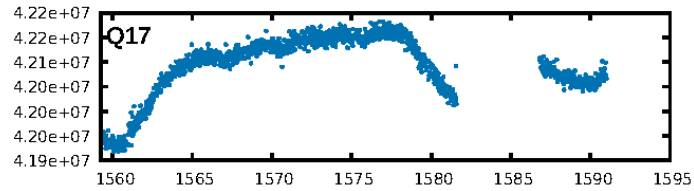
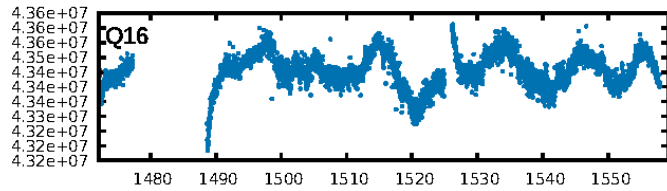
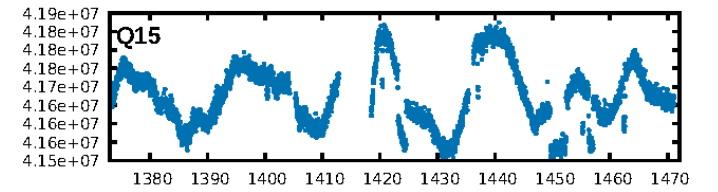
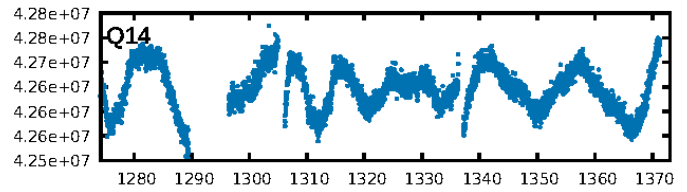
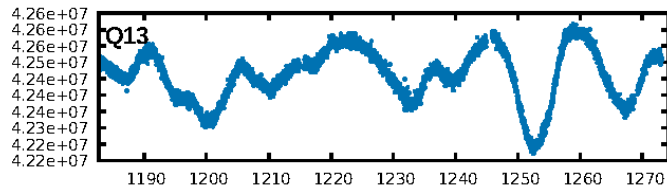
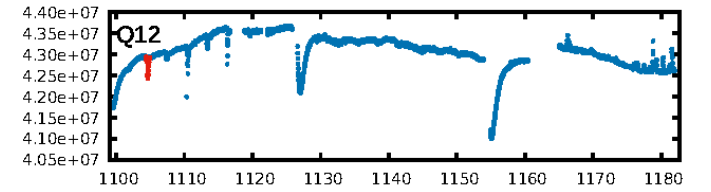
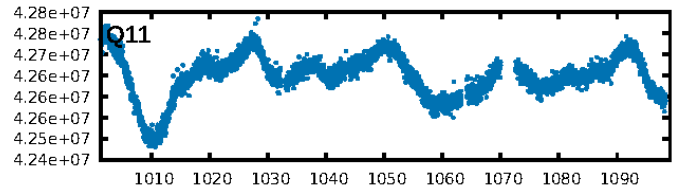
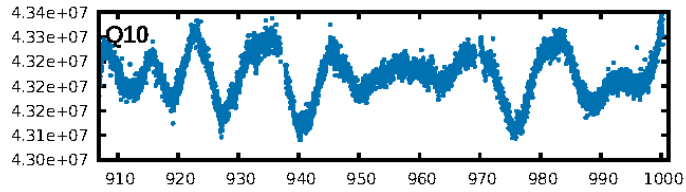
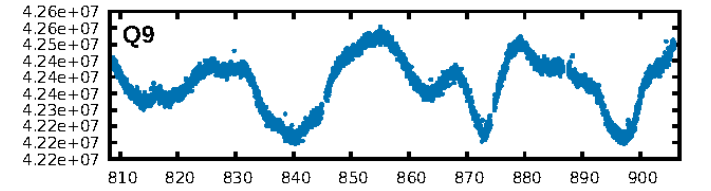
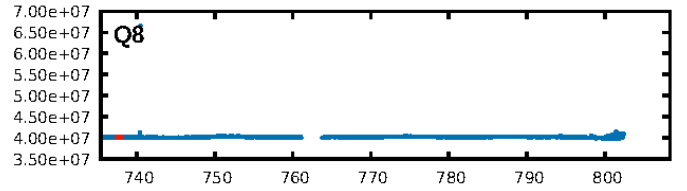
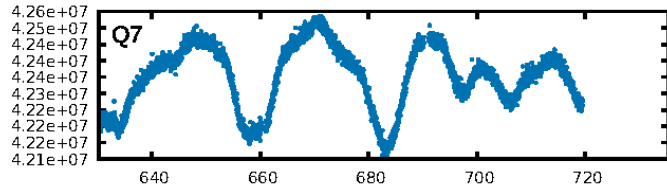
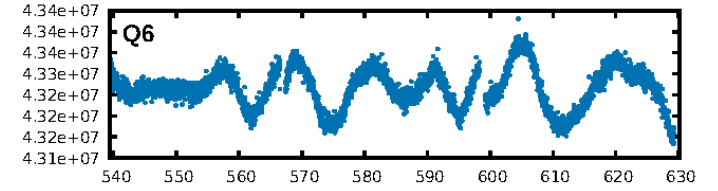
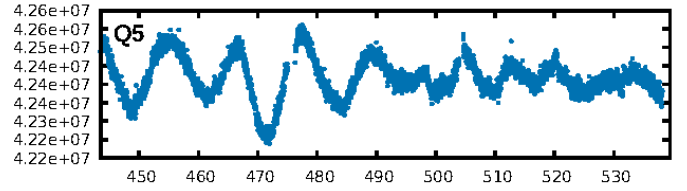
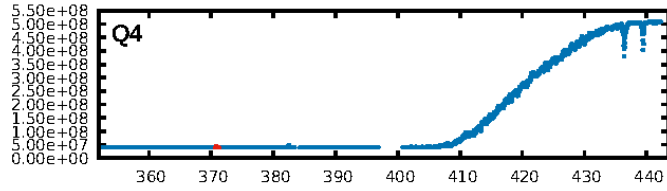
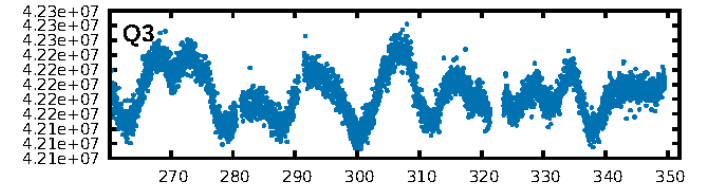
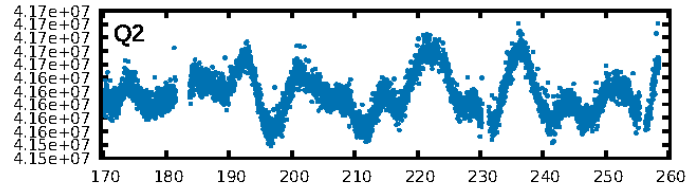
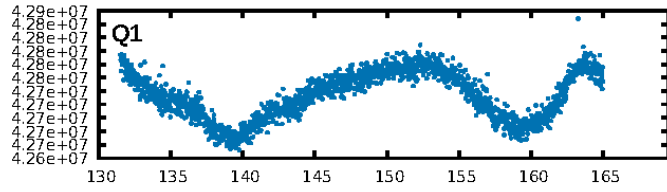
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [38.71 σ]
LongPeriod-sig: 100.0% [32.78 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.6%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -3.121
Centroid-sig: 0.0%
Centroid-so: 62.448 arcsec [73.27 σ]
OotOffset-rm: 8.609 arcsec [128.76 σ]
KicOffset-rm: 9.020 arcsec [135.05 σ]
OotOffset-st: 0/0/1/0 [1]
KicOffset-st: 0/0/1/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [2/2]

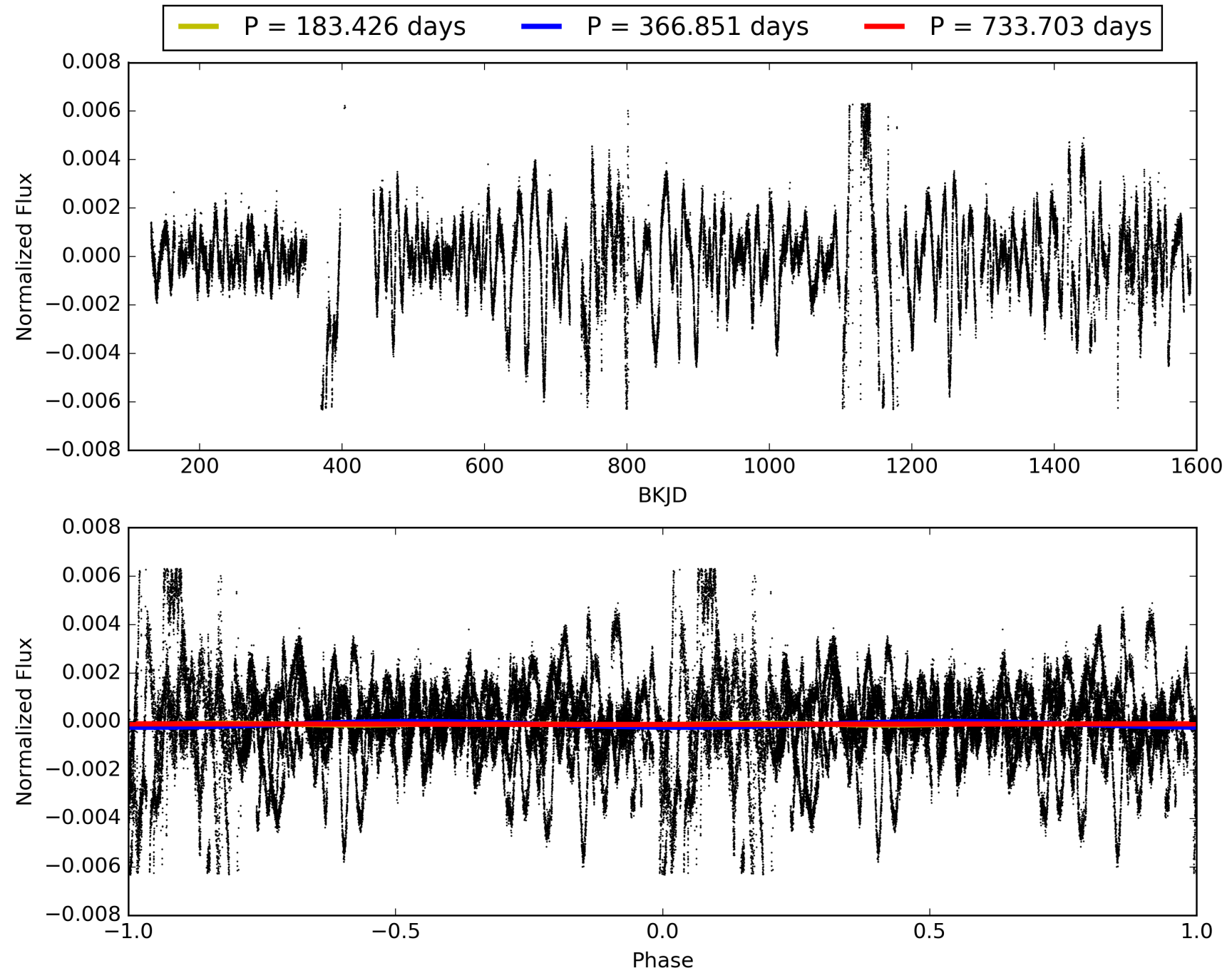
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:28:33 Z

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

TCE 007679979-01, PDC Light Curves

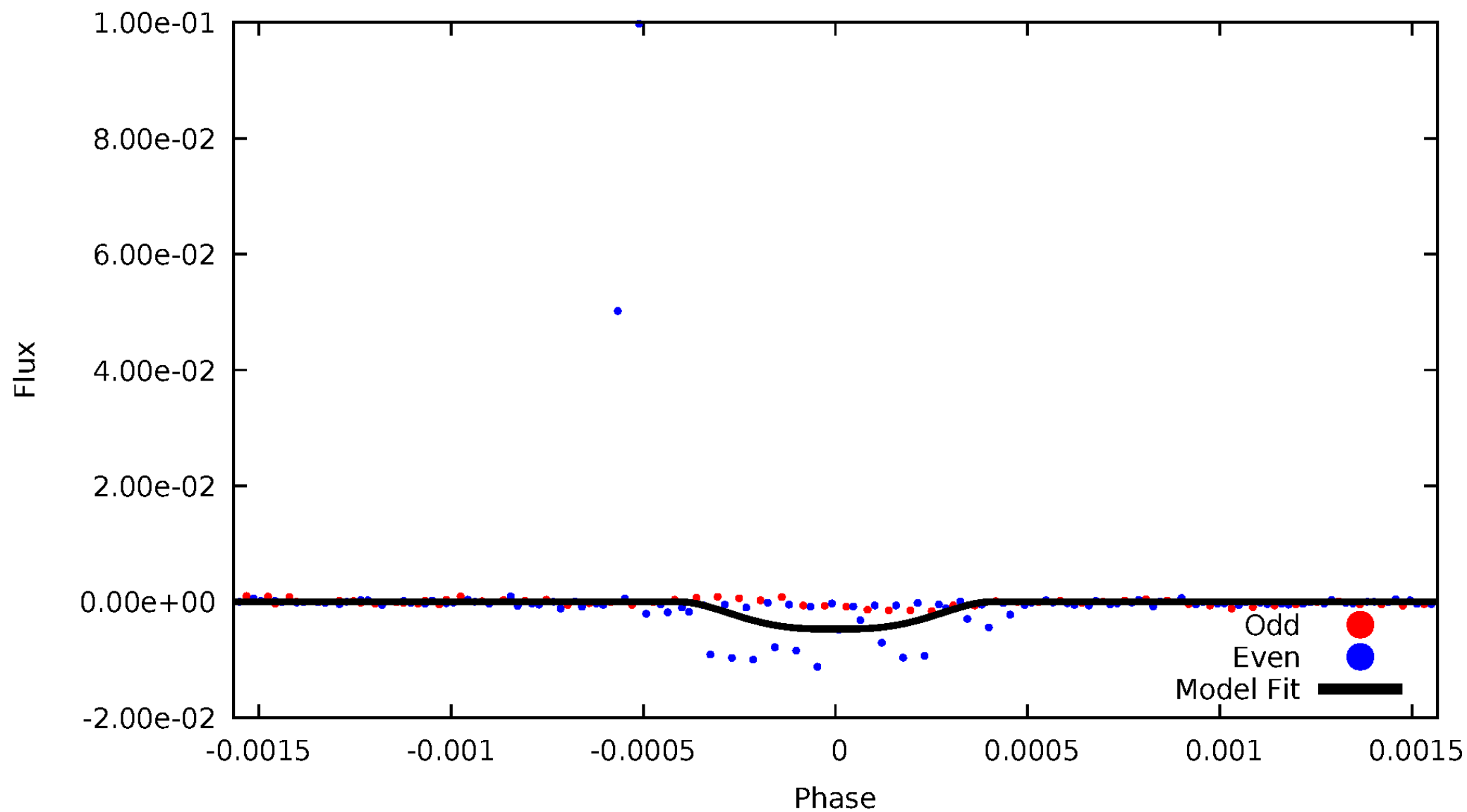


TCE 007679979-01



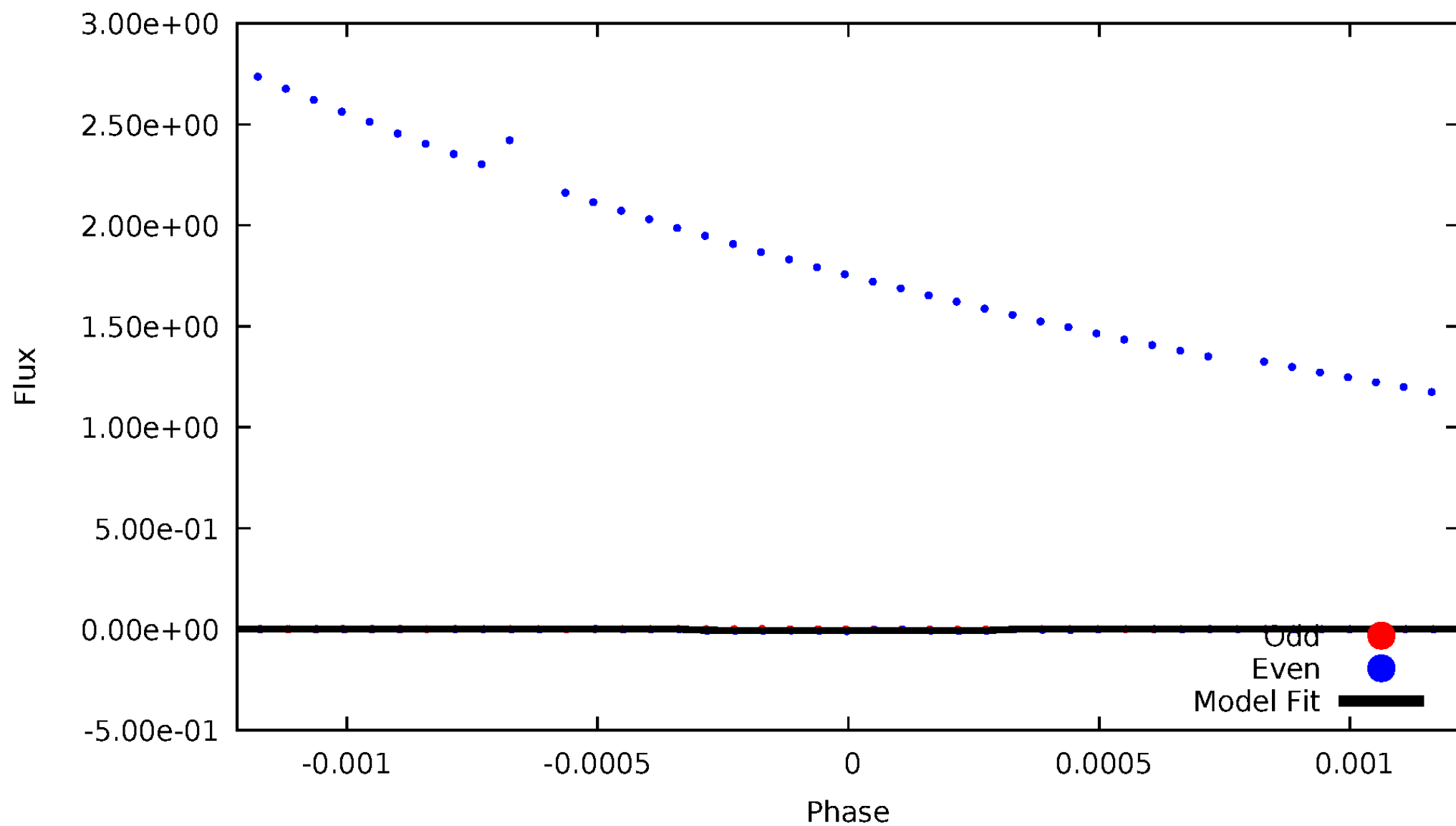
DV Odd/Even

TCE 007679979-01



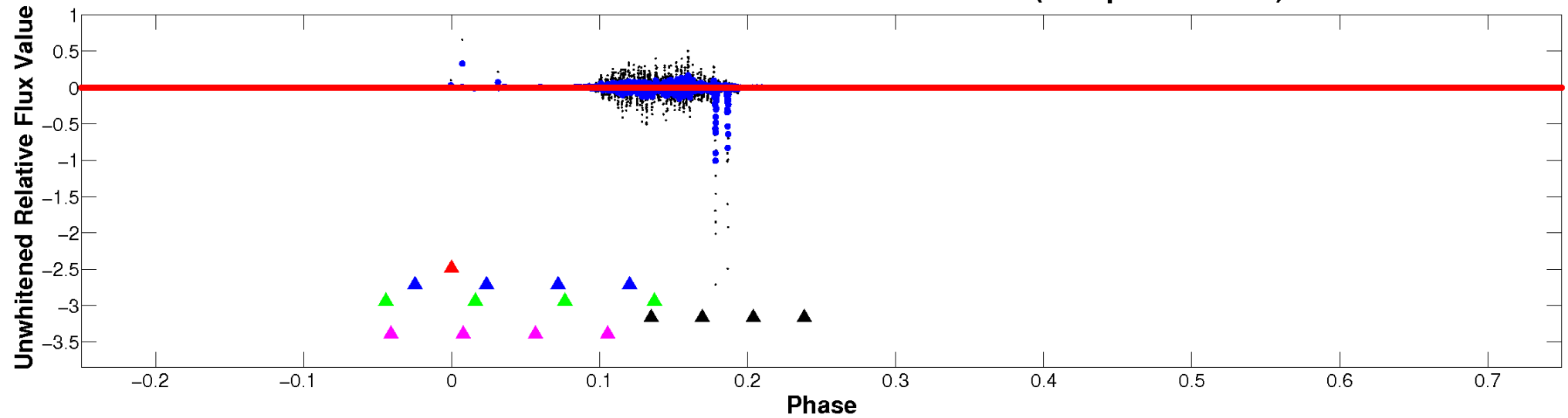
ALT Odd/Even

TCE 007679979-01

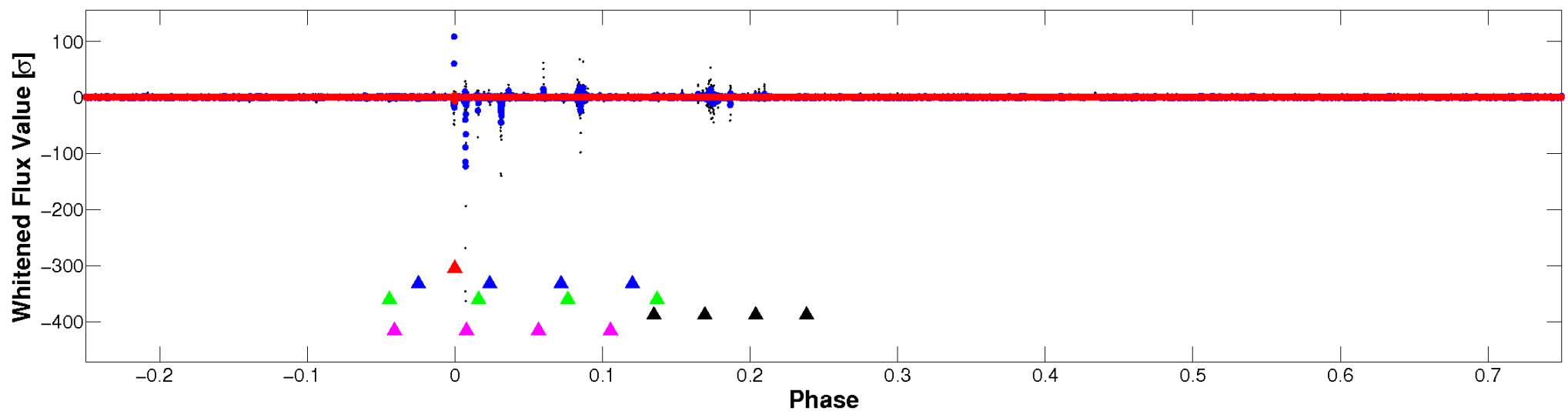


Non-Whitened Vs. Whitened Light Curve

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

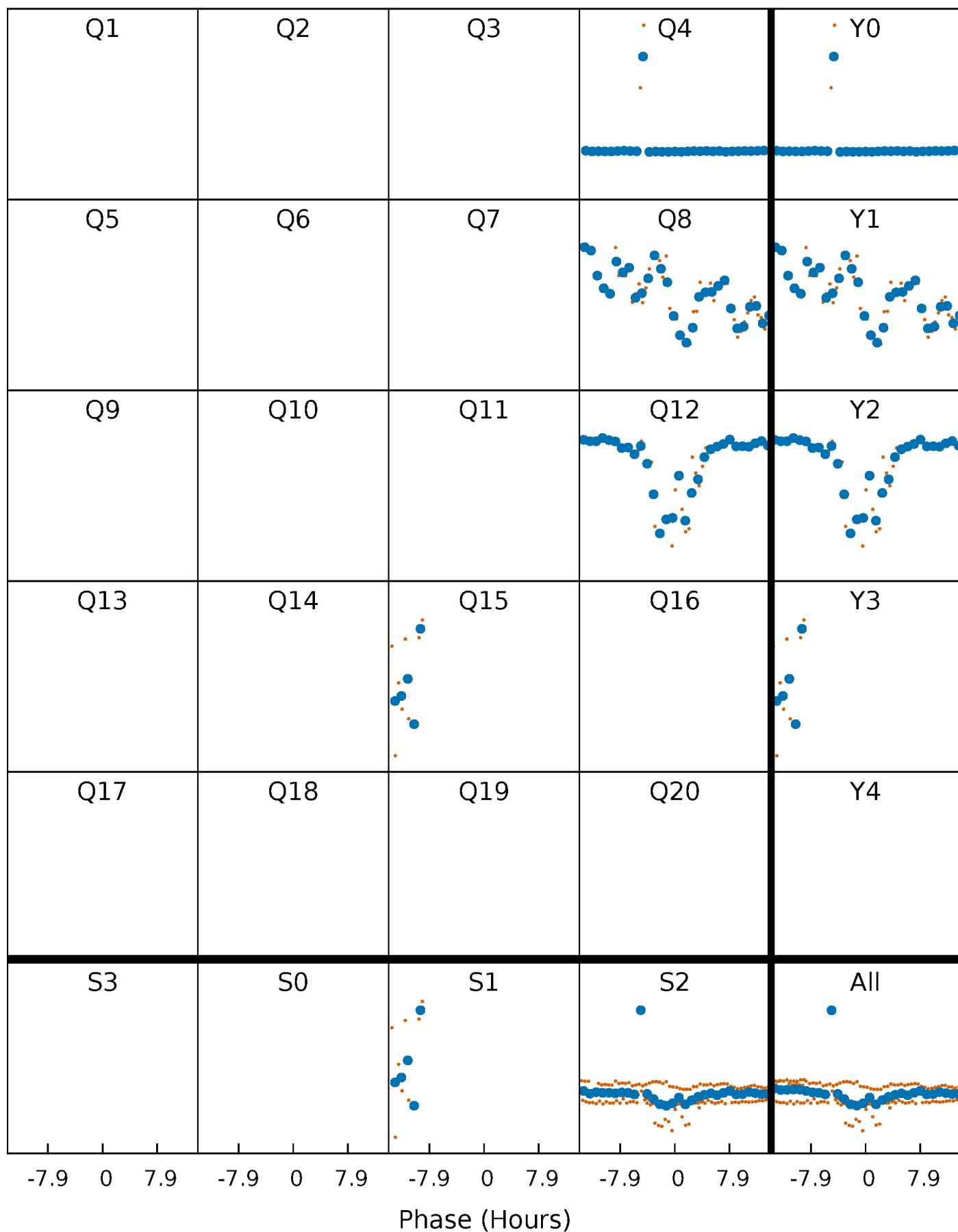


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



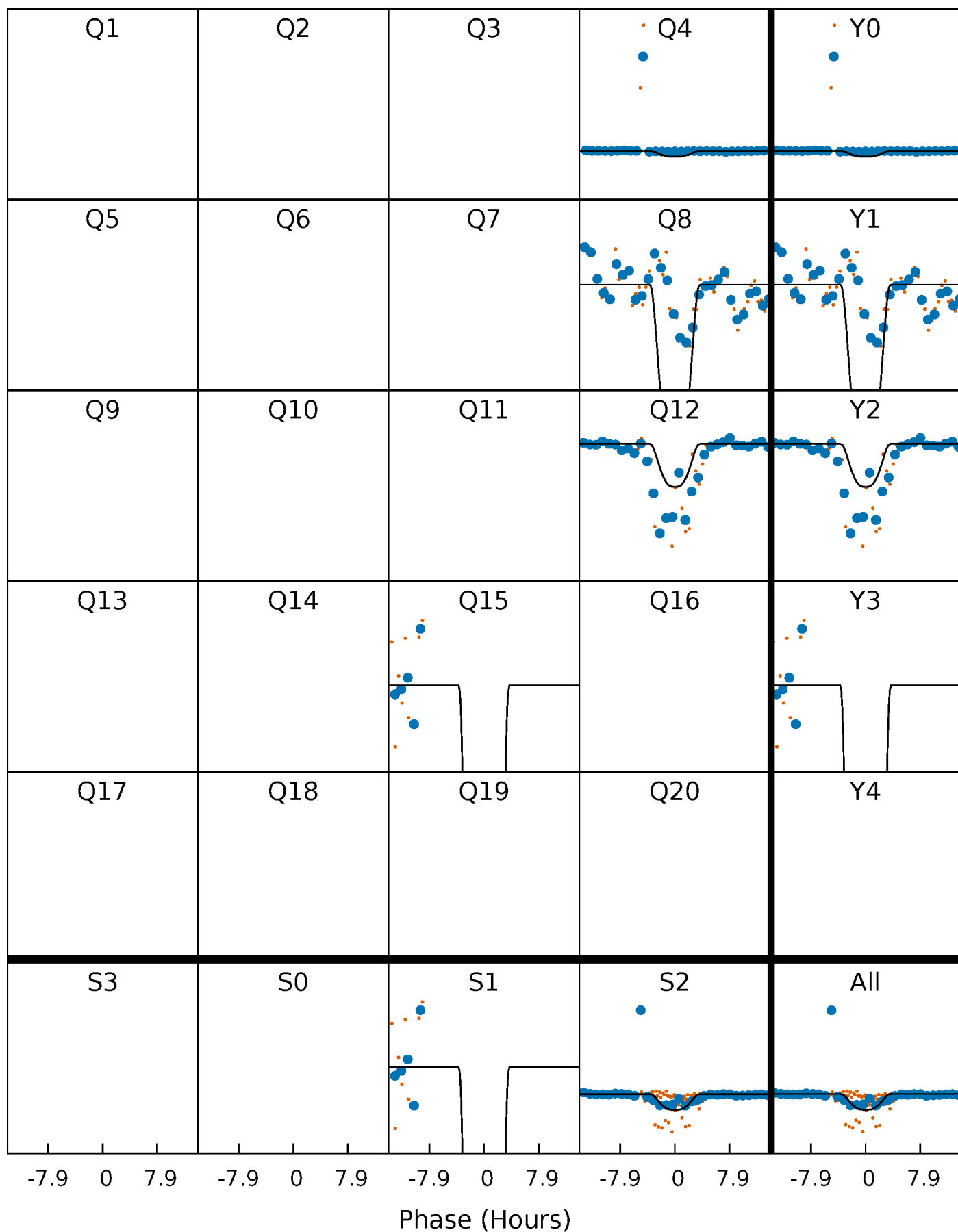
PDC Quarter-Phased Transit Curves

TCE 007679979-01 P=366.851368 Days $T_0=370.953729$ (BKJD)



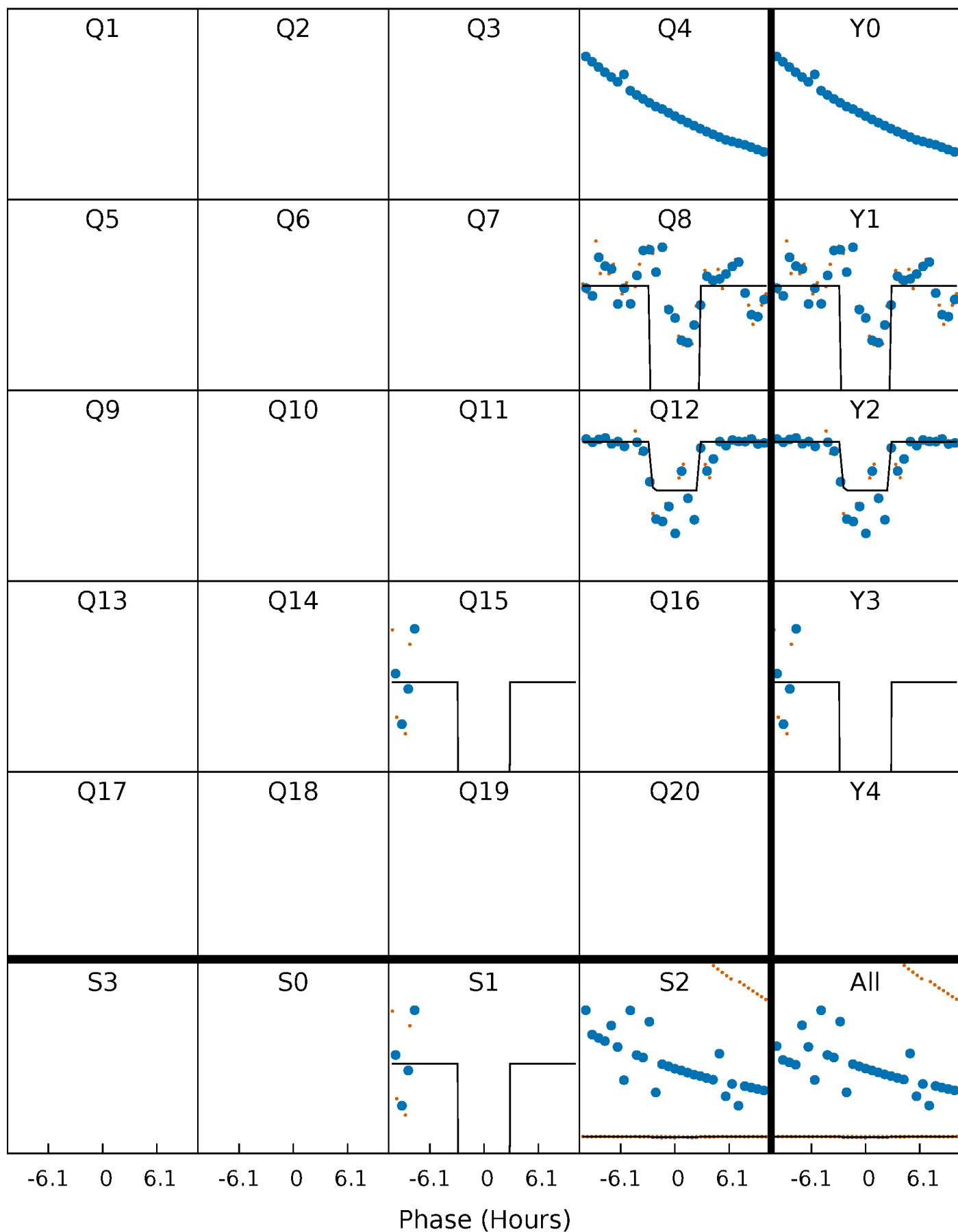
DV Quarter-Phased Transit Curves

TCE 007679979-01 P=366.851368 Days $T_0=370.953729$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

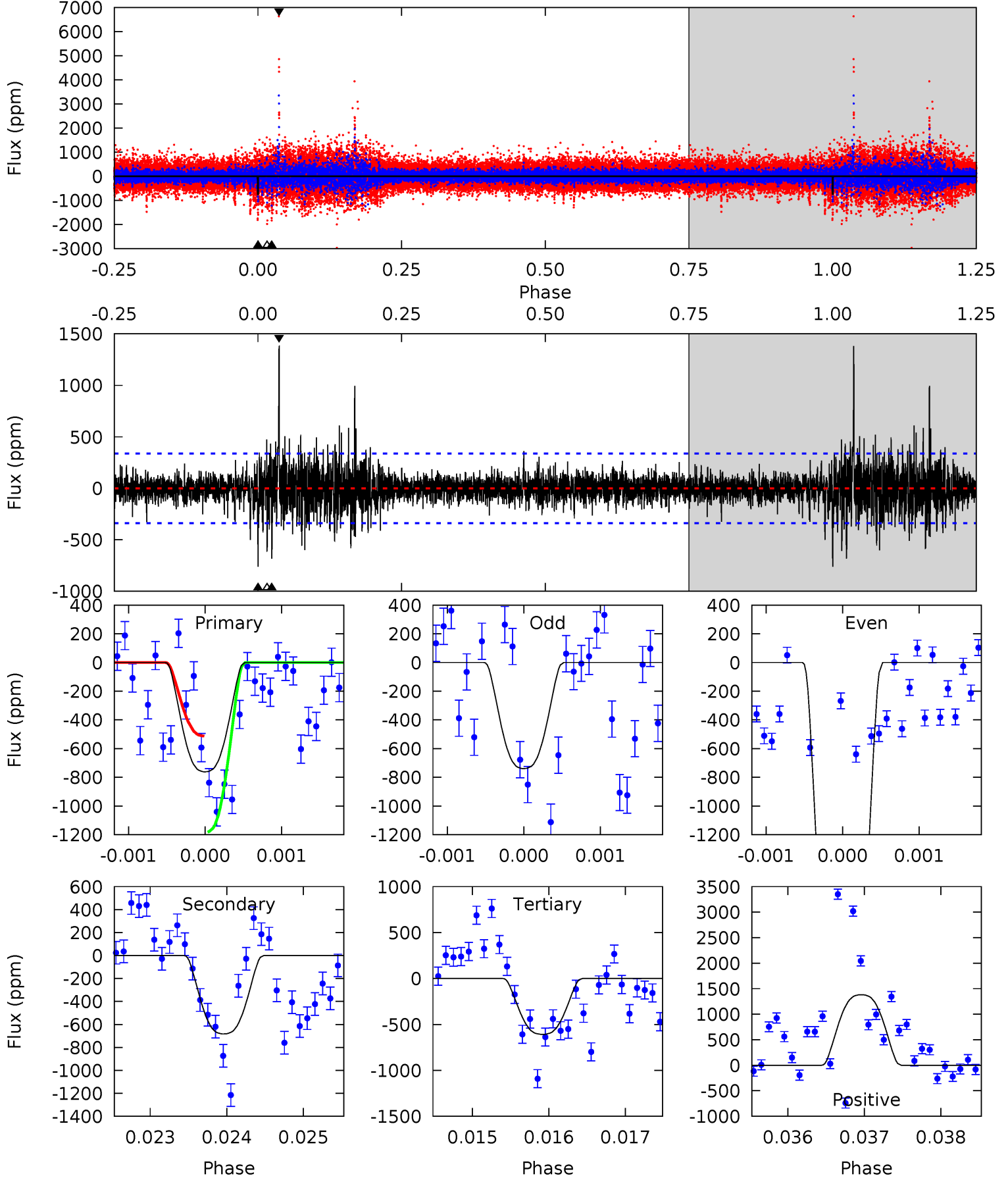
TCE 007679979-01 P=366.823269 Days $T_0=370.993775$ (BKJD)



DV Model-Shift Uniqueness Test

007679979-01, P = 366.851368 Days, E = 4.102361 Days

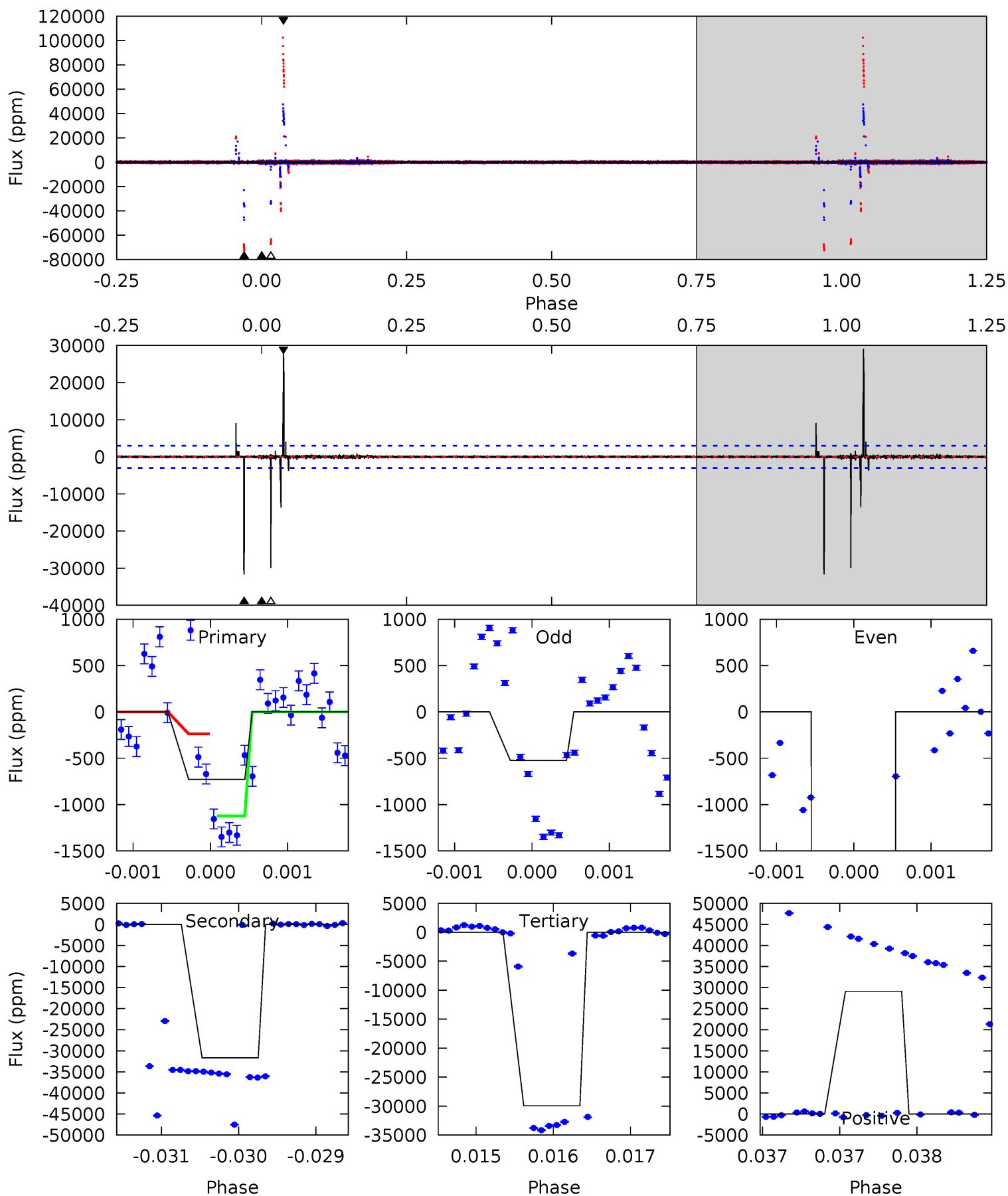
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.3	11.0	9.84	22.4	5.49	3.35	1.74	2.49	-10.0	1.21	-11.3	0.55	4.78	0.64	5.31



Alt Model-Shift Uniqueness Test

007679979-01, P = 366.823269 Days, E = 4.170506 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.34	58.5	55.3	53.8	5.54	3.43	1.39	-53.9	-52.4	3.24	4.75	15.1	-1133	0.48	0



Stellar Parameters For KIC 007679979

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5692^{+141}_{-155}	$4.553^{+0.042}_{-0.168}$	$-0.100^{+0.300}_{-0.300}$	$0.851^{+0.207}_{-0.069}$	$0.944^{+0.094}_{-0.115}$	$2.157^{+0.372}_{-1.021}$
	+2%/-3%	+1%/-4%	+300%/-300%	+24%/-8%	+10%/-12%	+17%/-47%
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 007679979-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-681±62	$7.35^{+1.34}_{-1.29}$	332^{+20}_{-13}	3724^{+230}_{-198}	6585^{+2971}_{-1899}
Alt.	-31689±541	$7.23^{+1.35}_{-1.26}$	331^{+20}_{-13}	9376^{+1301}_{-908}	$327461^{+146333}_{-93174}$

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

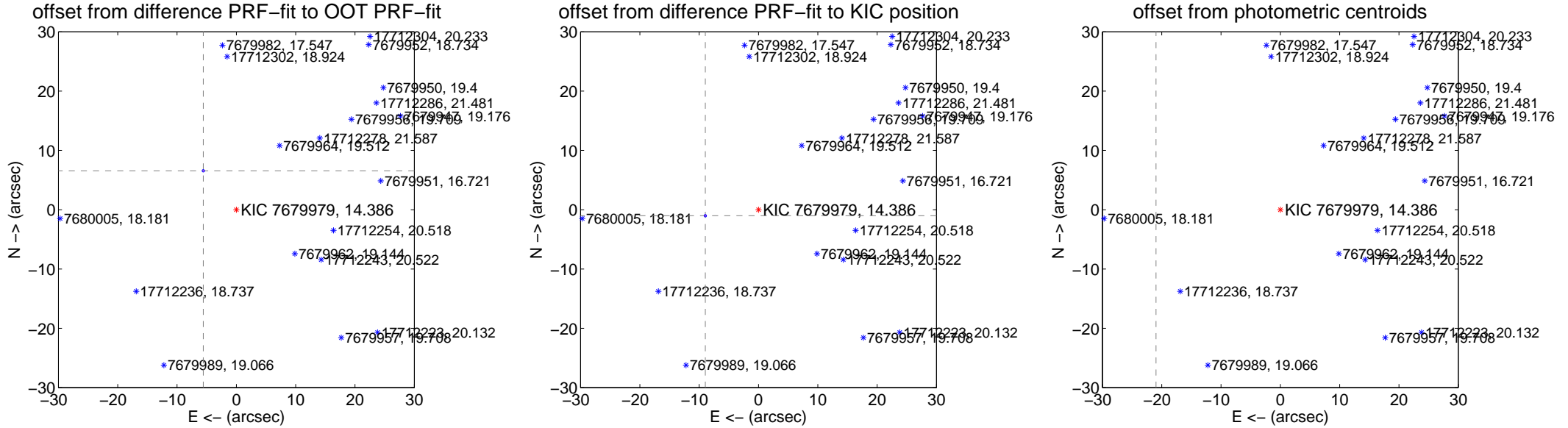
DV Centroid Data

Supplemental centroid analysis for 007679979-01. Kepler magnitude: 14.39. Transit SNR 29.97

There are 1 quarters with good PRF difference image offsets

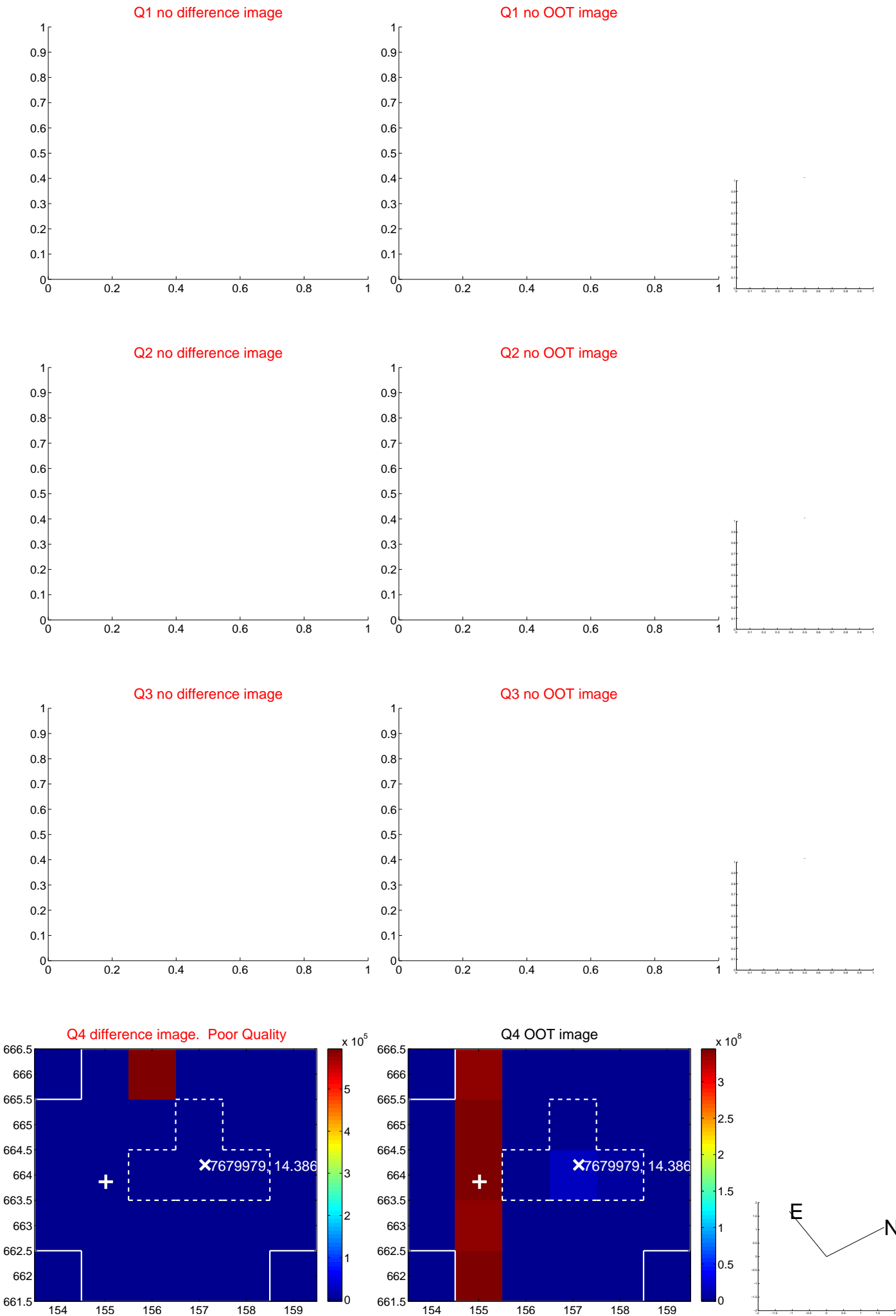
The OOT PRF centroid is offset from the target star catalog position by about 8.30 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.609 ± 0.067	128.76	5.576 ± 0.067	6.560 ± 0.067
PRF-fit source offset from KIC position	9.020 ± 0.067	135.05	8.962 ± 0.067	-1.021 ± 0.067
photometric centroid source offset	62.45 ± 0.85	73.27	20.97 ± 0.73	58.82 ± 0.87

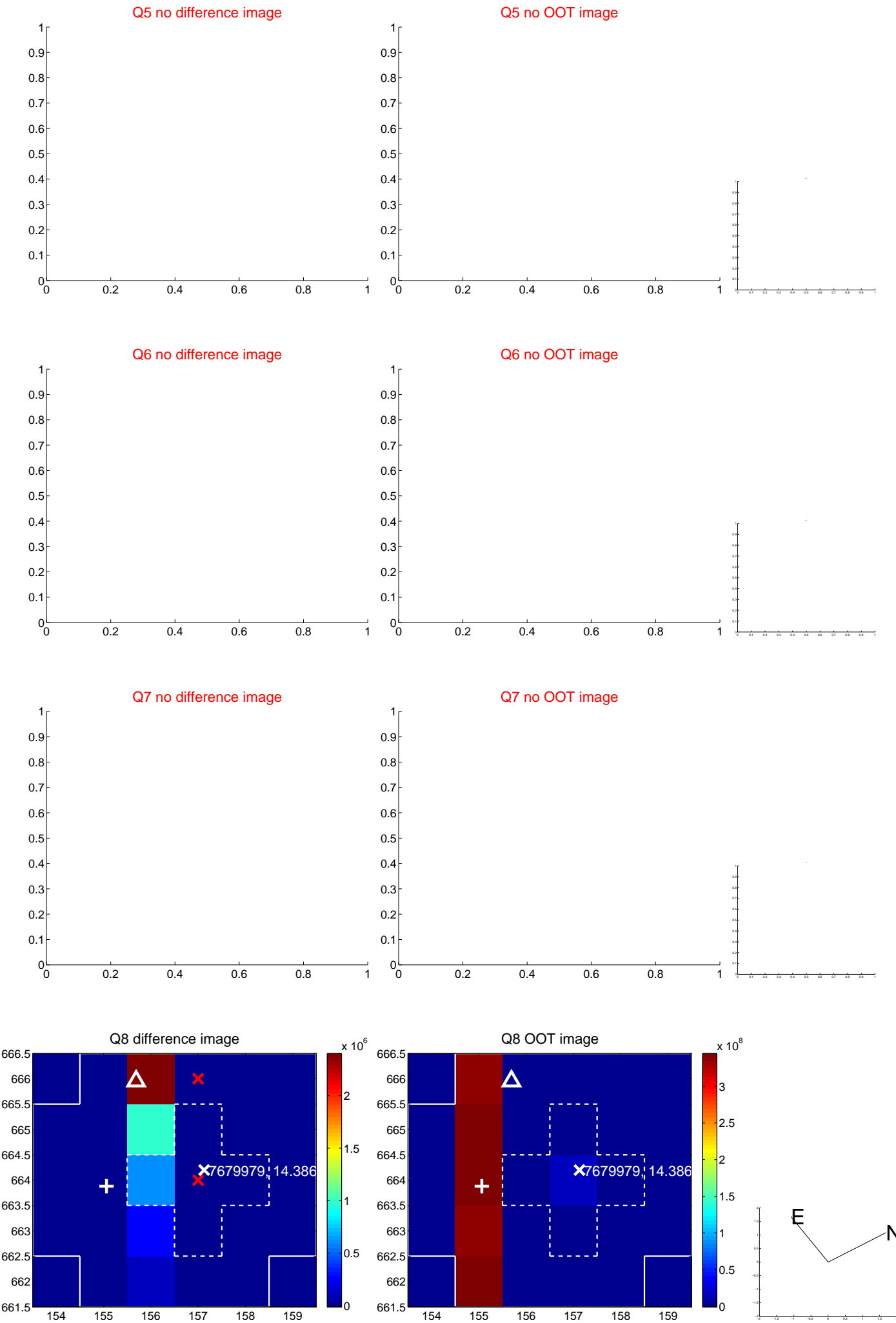


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



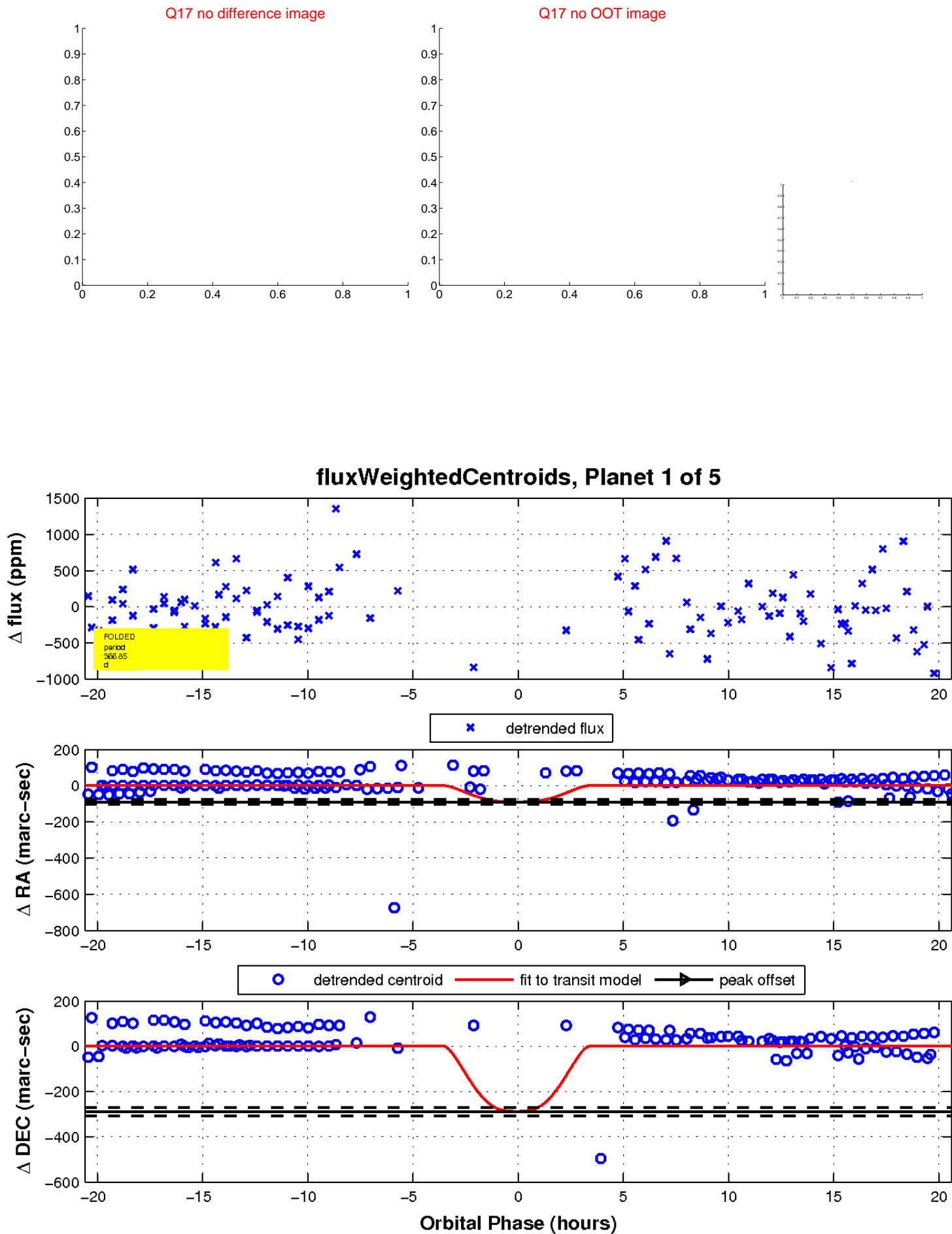
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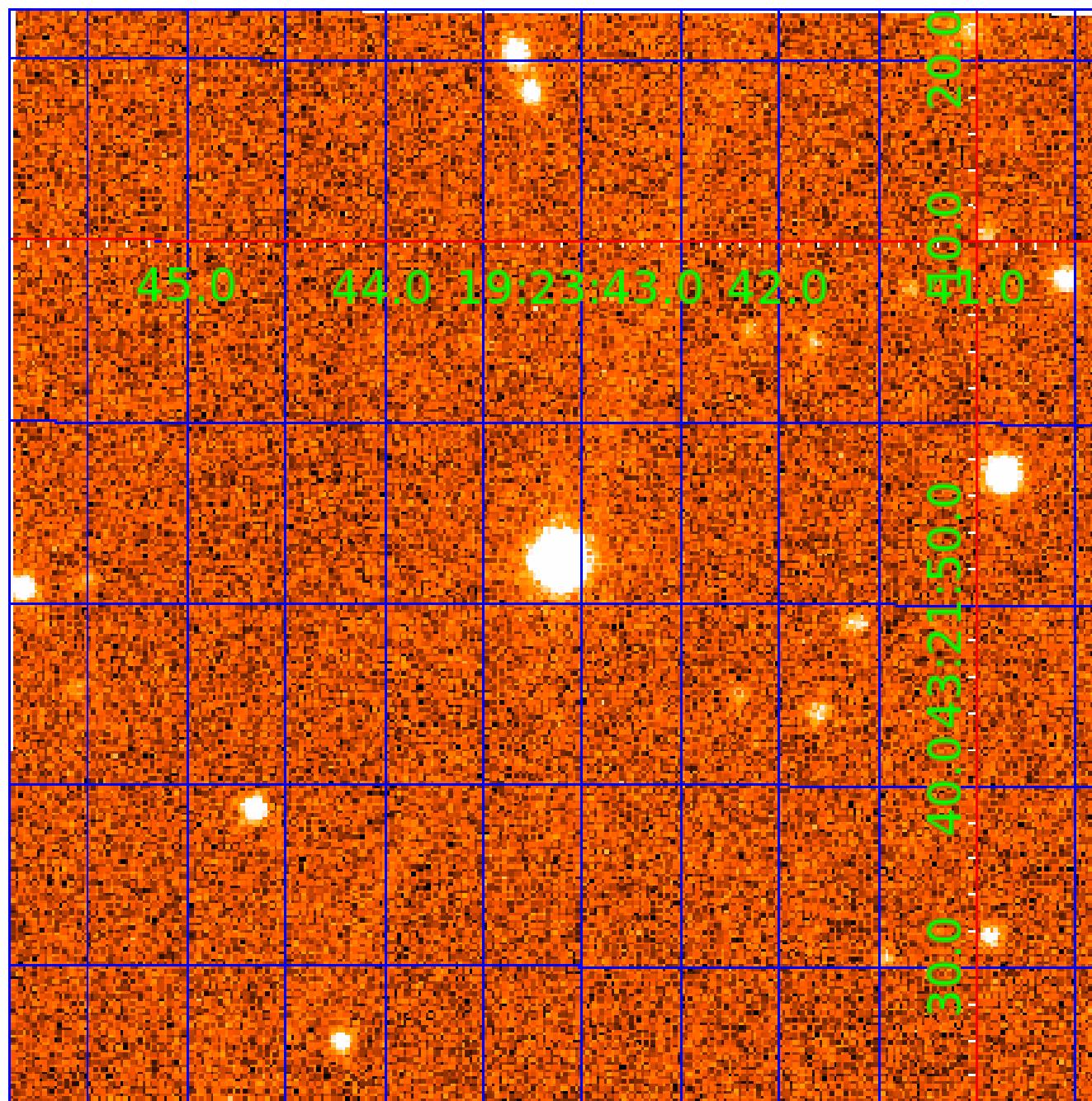


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007679979

Q1-17 DR25 TCE Parameters

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007679979-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_TER_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—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.

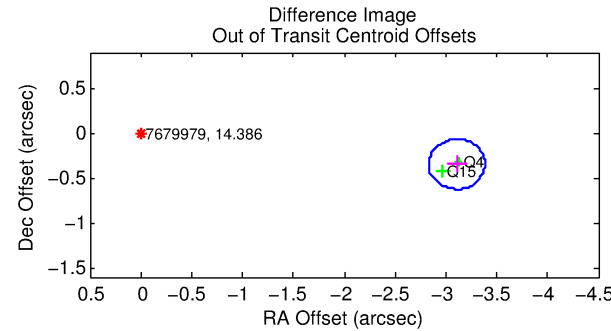
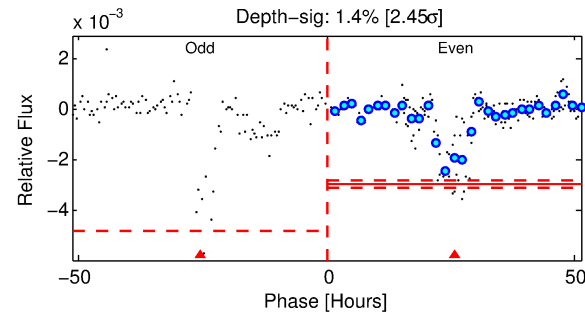
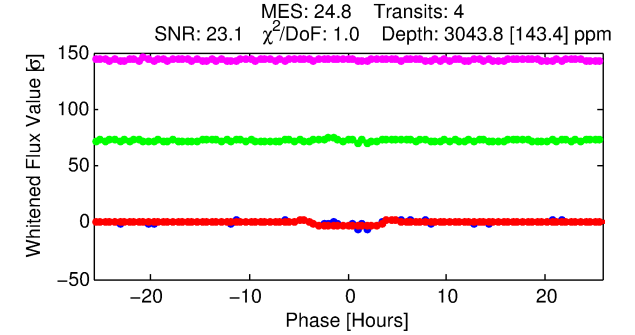
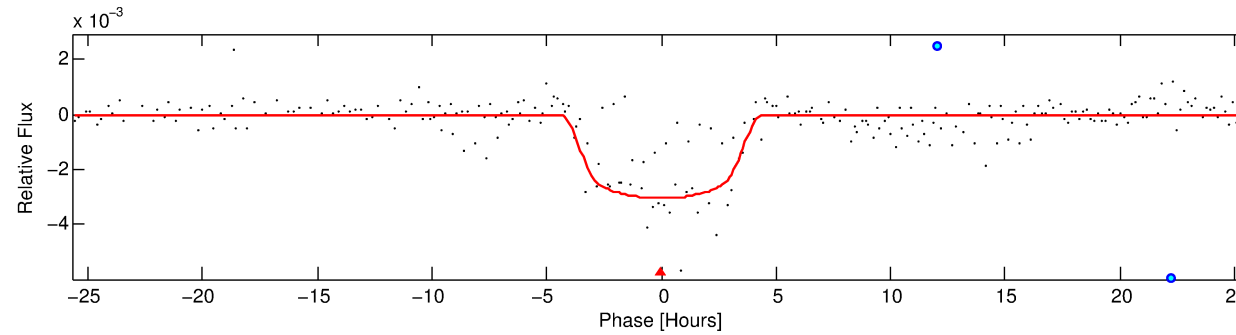
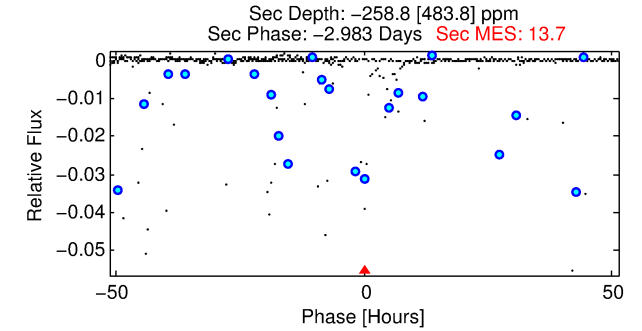
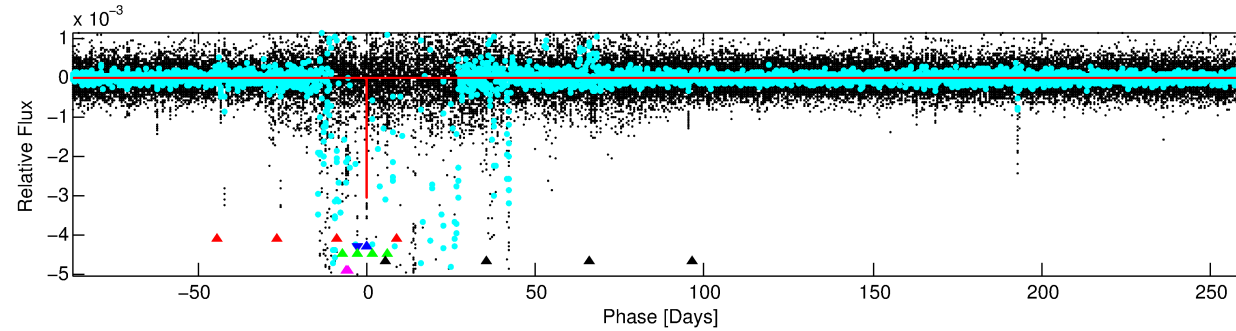
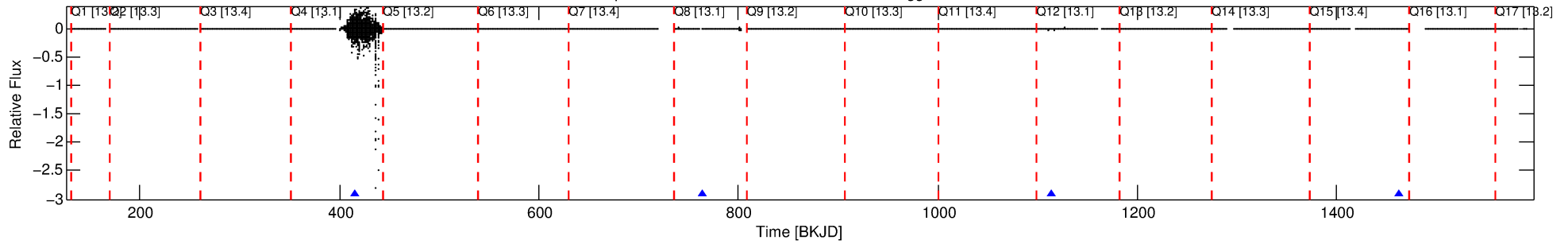
Ephemeris Match Information For 007679979-02

No Significant Match Found

DV One-Page Summary

KIC: 7679979 Candidate: 2 of 5 Period: 349.121 d

Kp: 14.39 R*: 0.85 Rs Teff: 5692.0 K Logg: 4.55 Fe/H: -0.100



DV Fit Results:

Period = 349.12080 [0.00340] d
Epoch = 415.0854 [0.0084] BKJD
Rp/R* = 0.0572 [0.0021]
a/R* = 202.81 [21.28]
b = 0.83 [0.04]
Seff = 0.75 [0.24]
Teq = 237 [19] K
Rp = 5.31 [1.31] Re
a = 0.9520 [0.1972] AU
Ag = N/A
Teffp = N/A

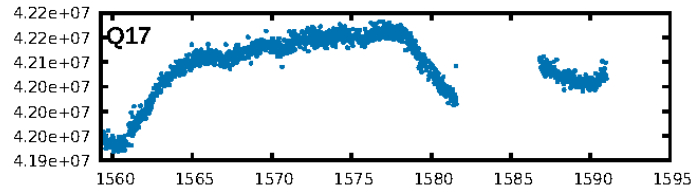
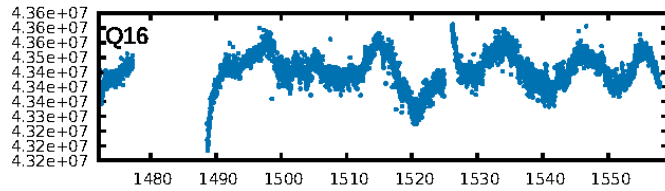
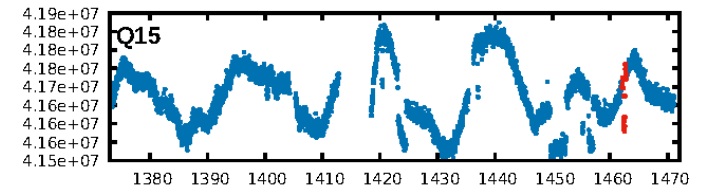
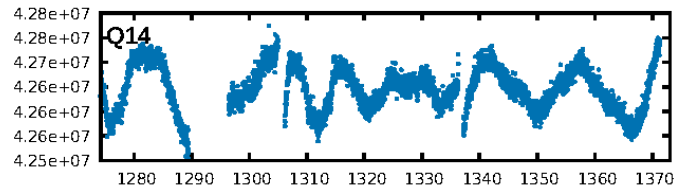
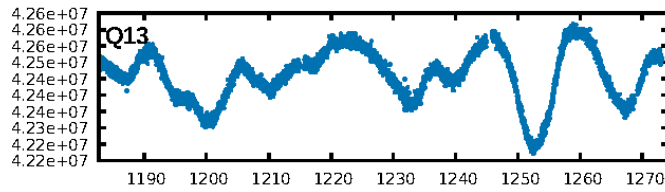
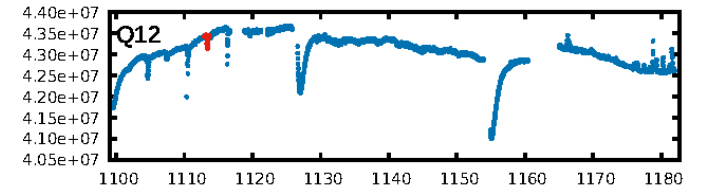
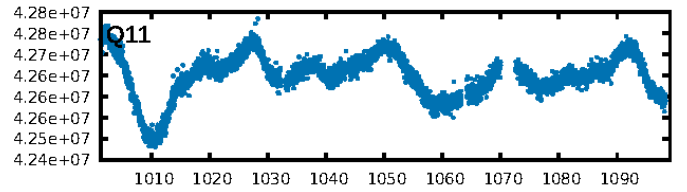
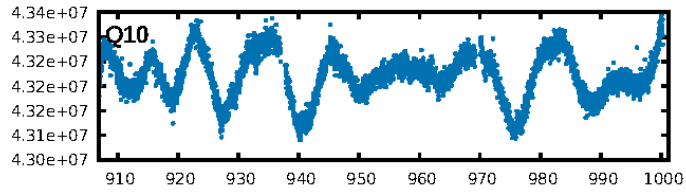
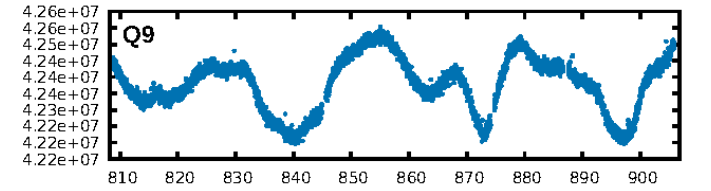
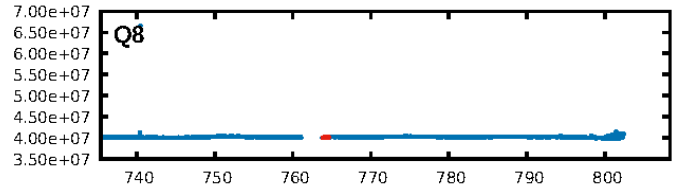
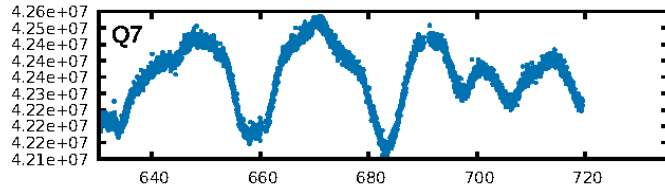
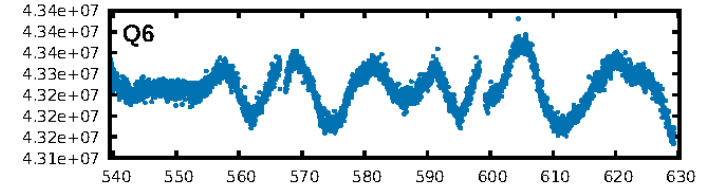
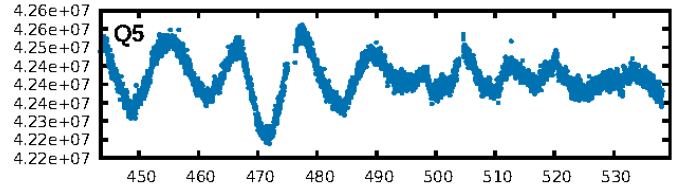
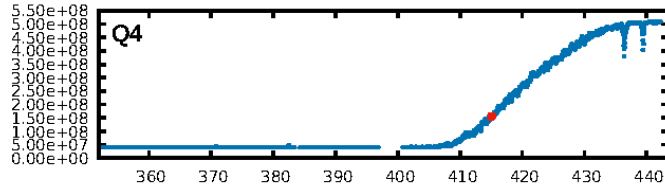
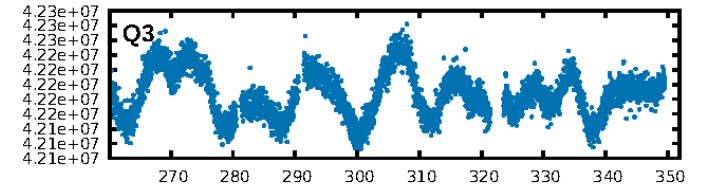
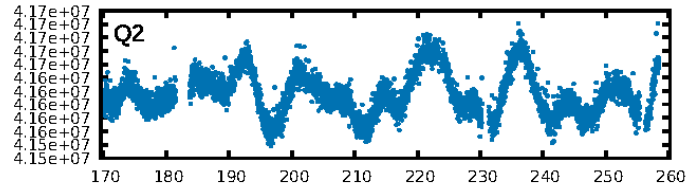
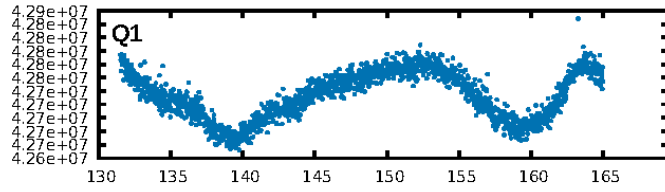
DV Diagnostic Results:

ShortPeriod-sig: 21.8% [0.28σ]
LongPeriod-sig: 100.0% [38.71σ]
ModelChiSquare2-sig: 4.3%
ModelChiSquareGof-sig: 84.5%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -16.88
Centroid-sig: 0.5%
Centroid-so: 2.539 arcsec [6.85σ]
OotOffset-rm: 3.124 arcsec [33.81σ]
KicOffset-rm: 3.779 arcsec [1.73σ]
OotOffset-st: 0/1/1/0 [2]
KicOffset-st: 0/1/1/0 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [2/2]

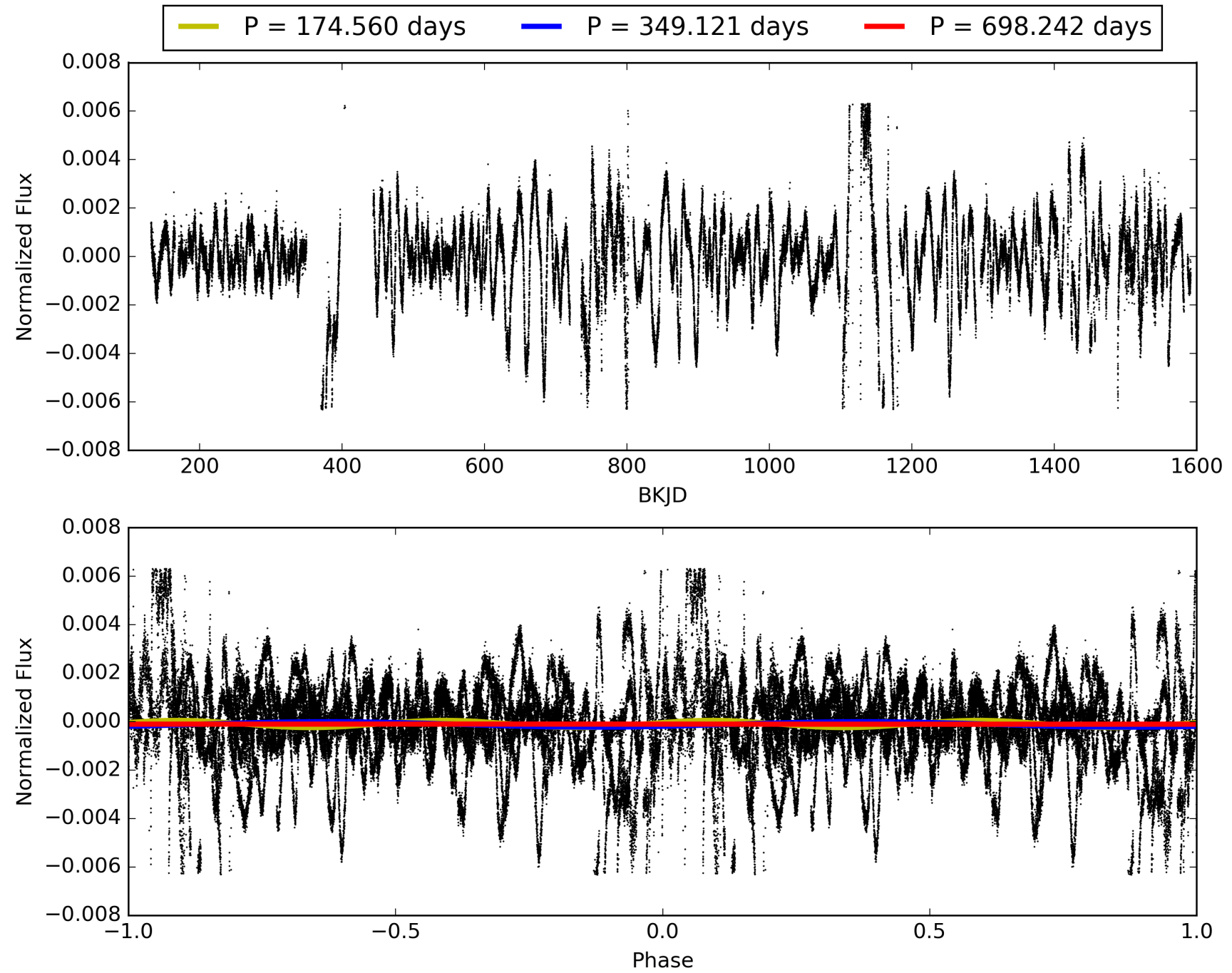
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:28:41 Z

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

TCE 007679979-02, PDC Light Curves

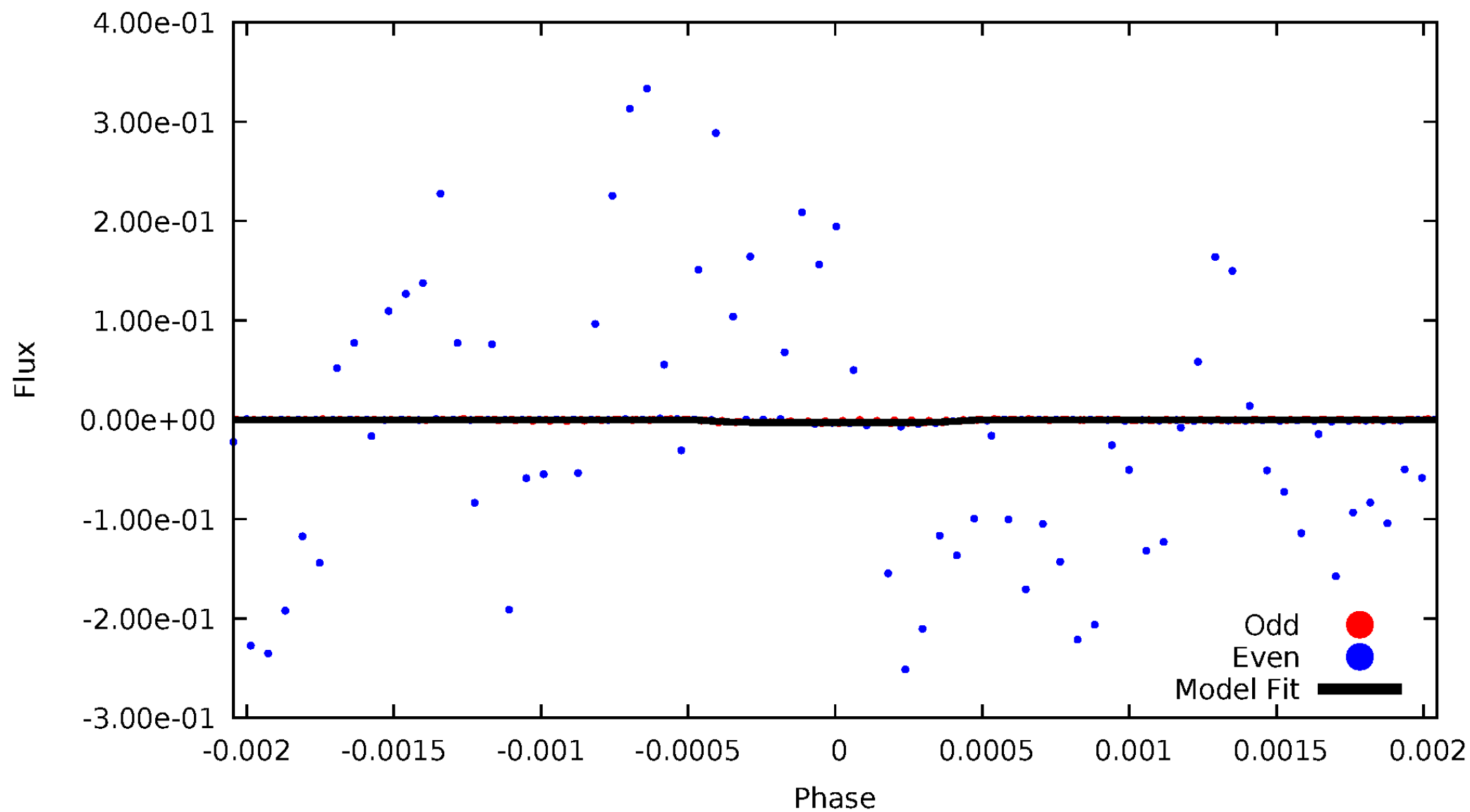


TCE 007679979-02



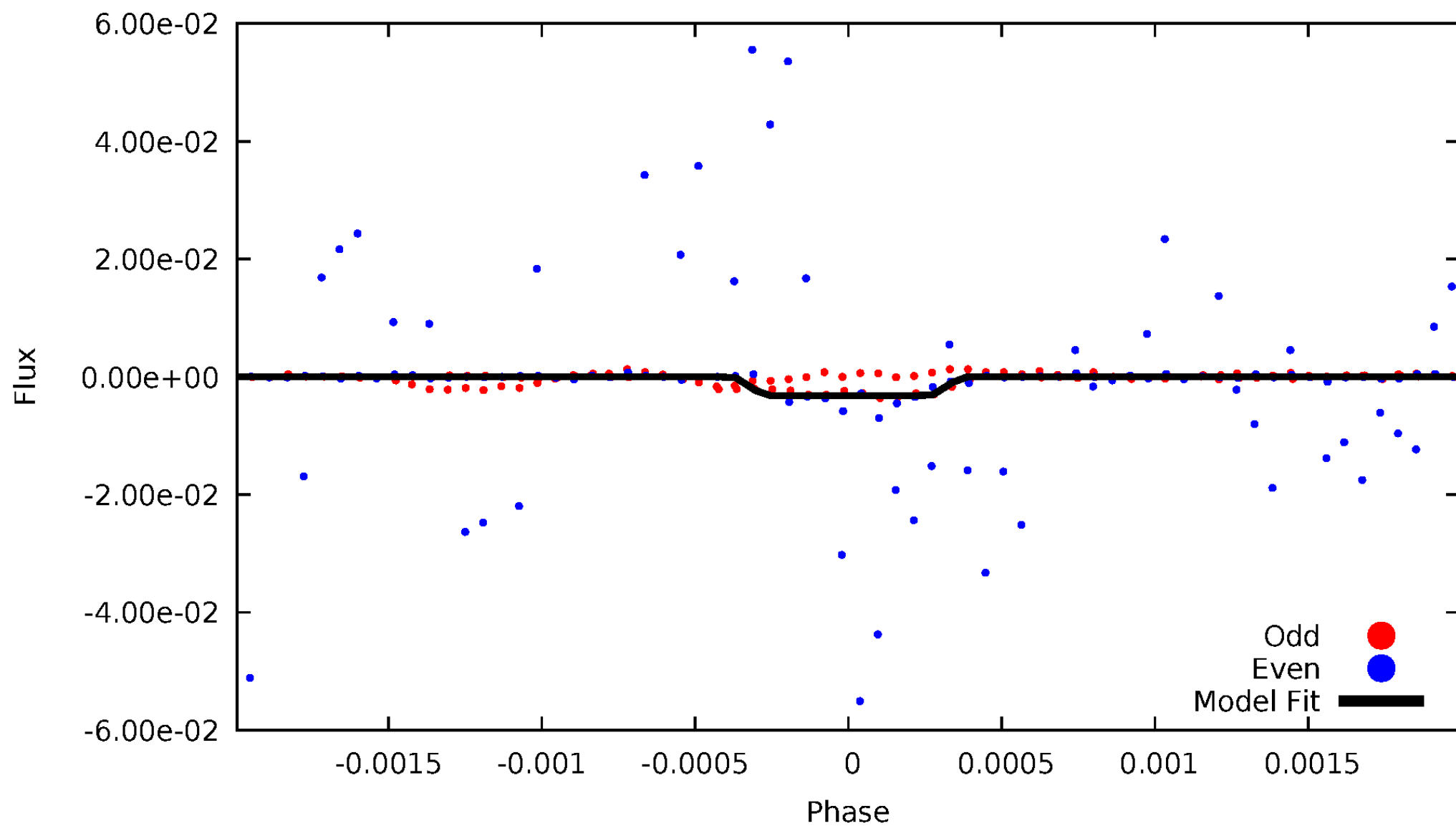
DV Odd/Even

TCE 007679979-02



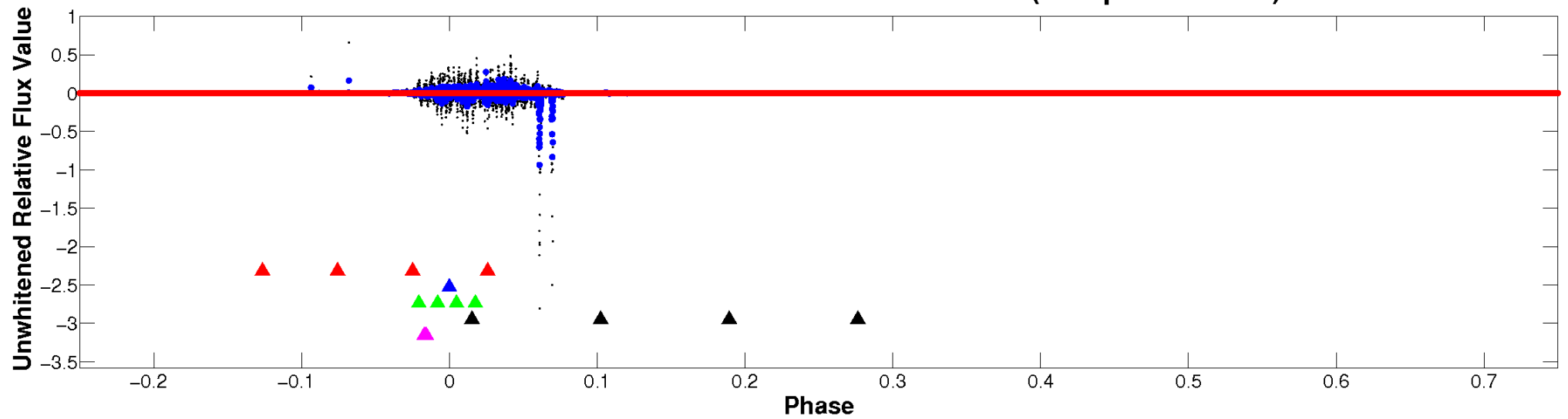
ALT Odd/Even

TCE 007679979-02

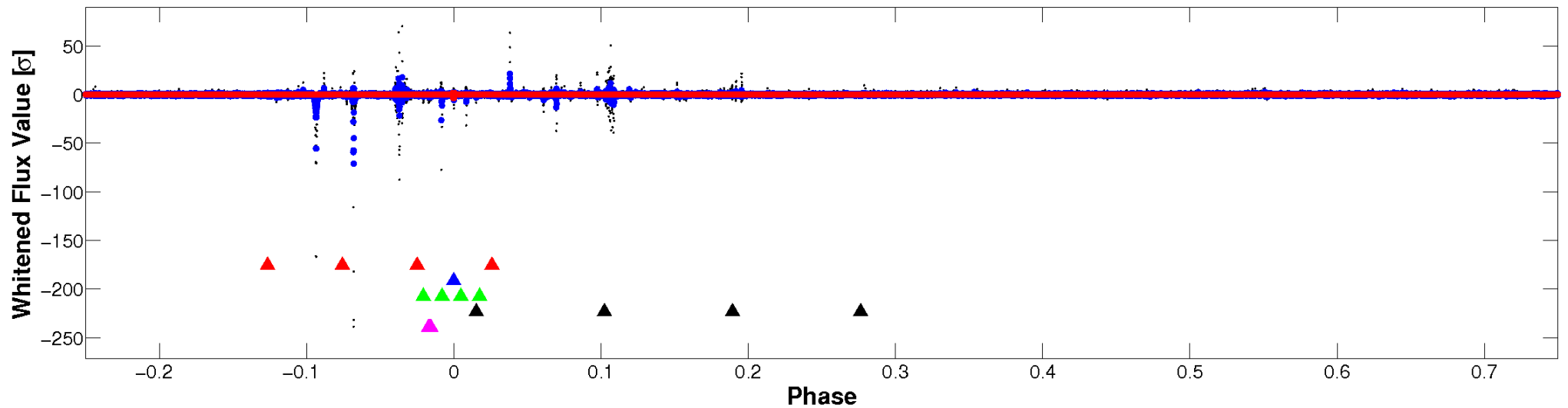


Non-Whitened Vs. Whitened Light Curve

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

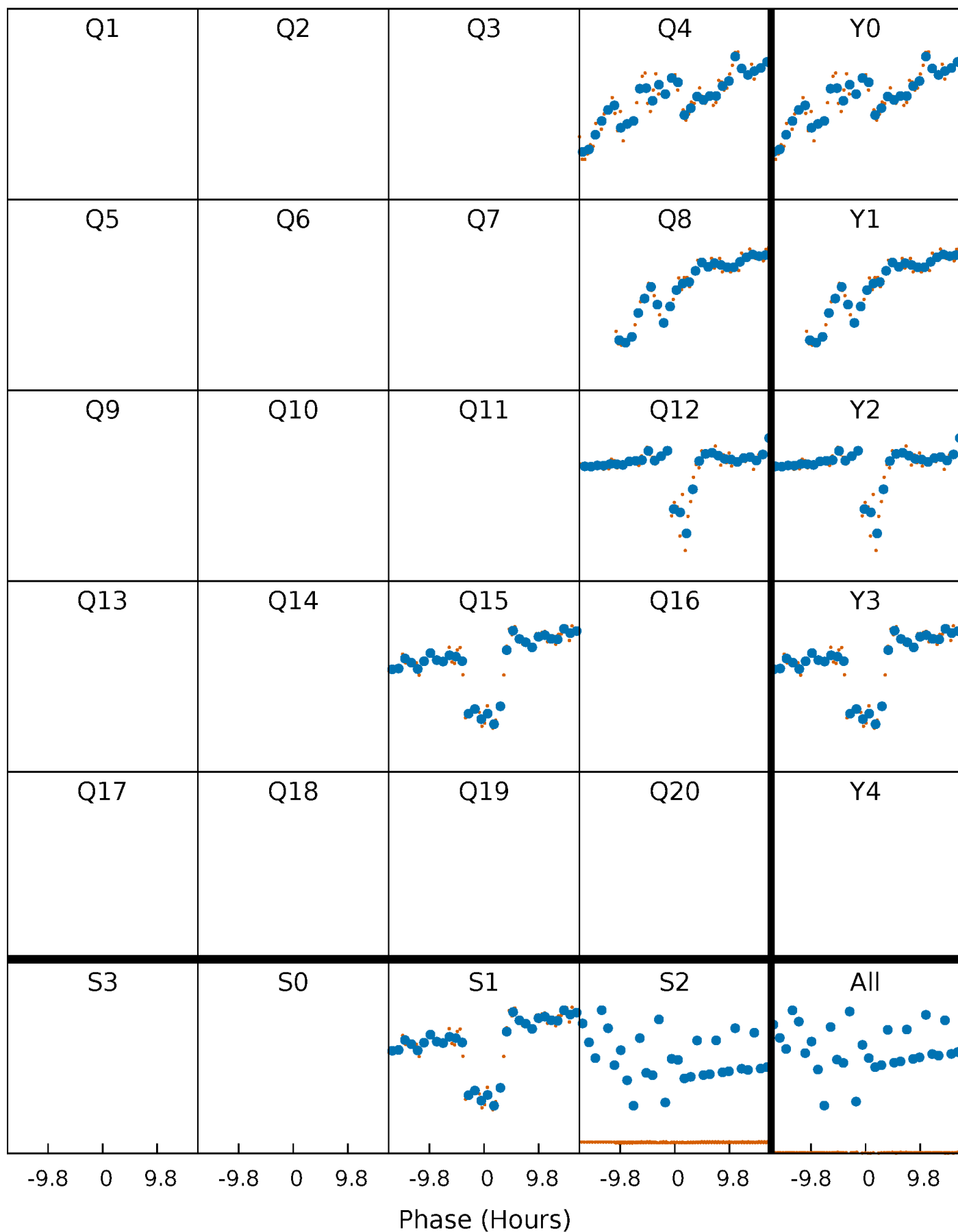


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



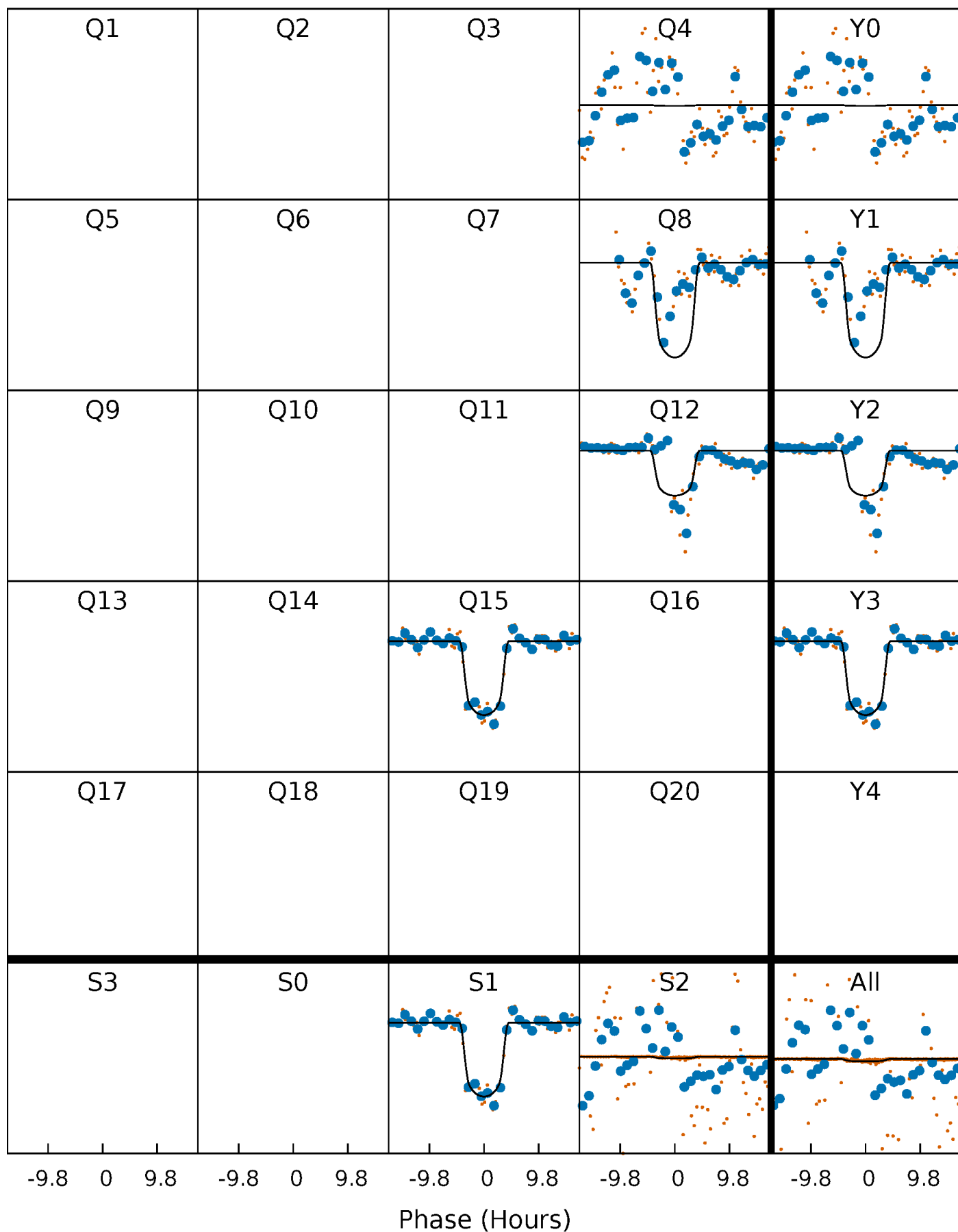
PDC Quarter-Phased Transit Curves

TCE 007679979-02 P=349.120804 Days $T_0=415.085384$ (BKJD)



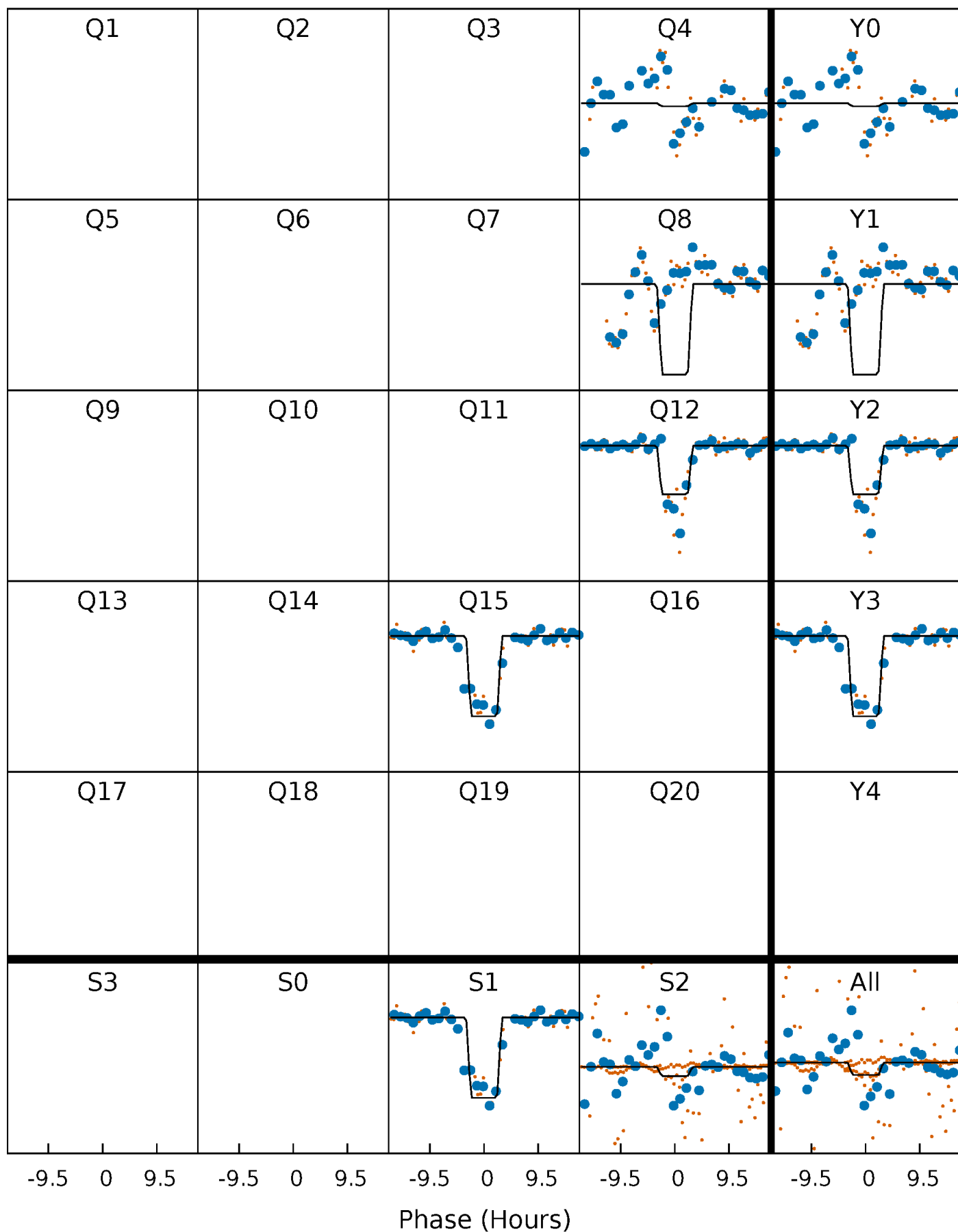
DV Quarter-Phased Transit Curves

TCE 007679979-02 $P=349.120804$ Days $T_0=415.085384$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

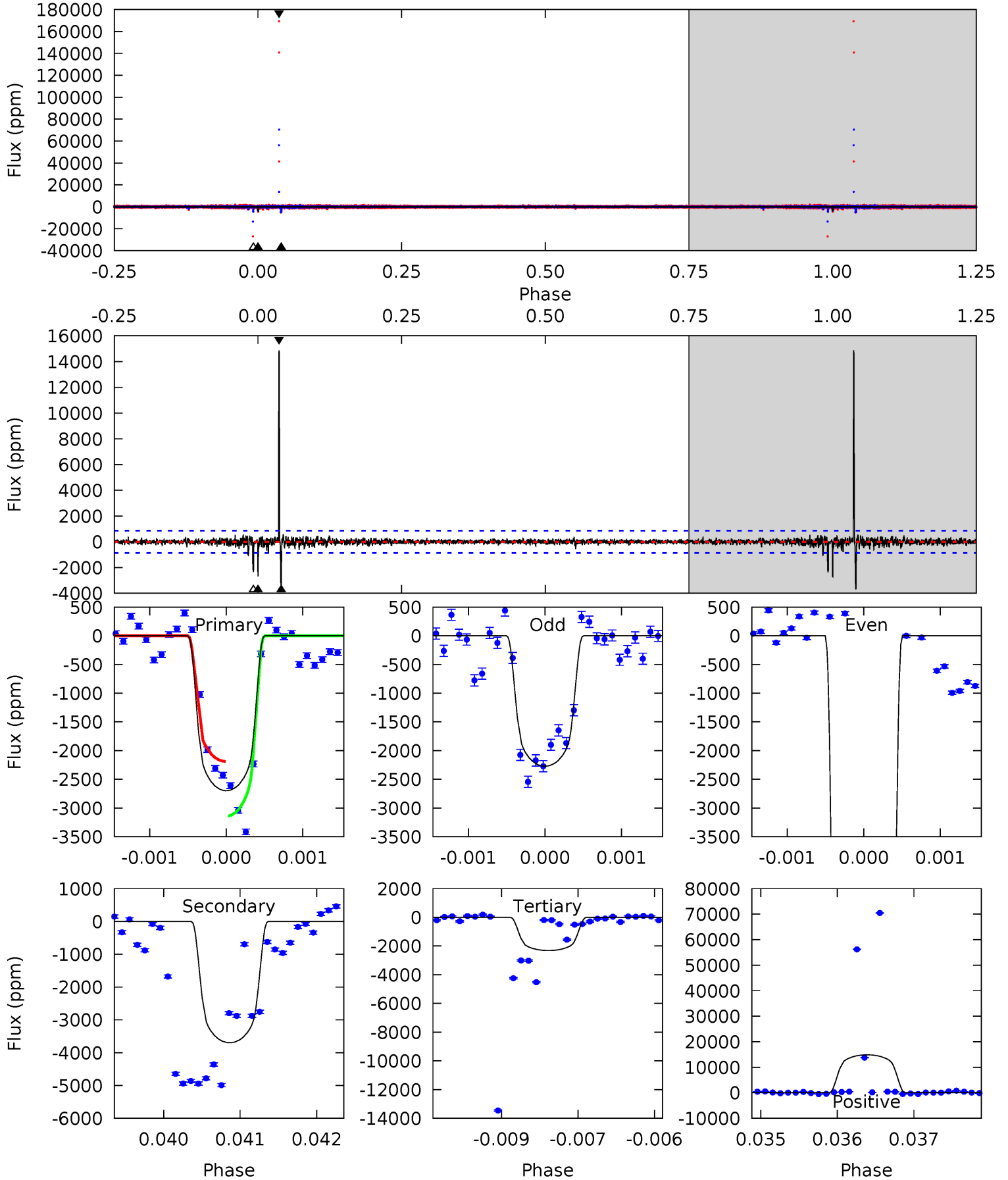
TCE 007679979-02 P=349.107373 Days $T_0=415.155482$ (BKJD)



DV Model-Shift Uniqueness Test

007679979-02, P = 349.120804 Days, E = 65.964580 Days

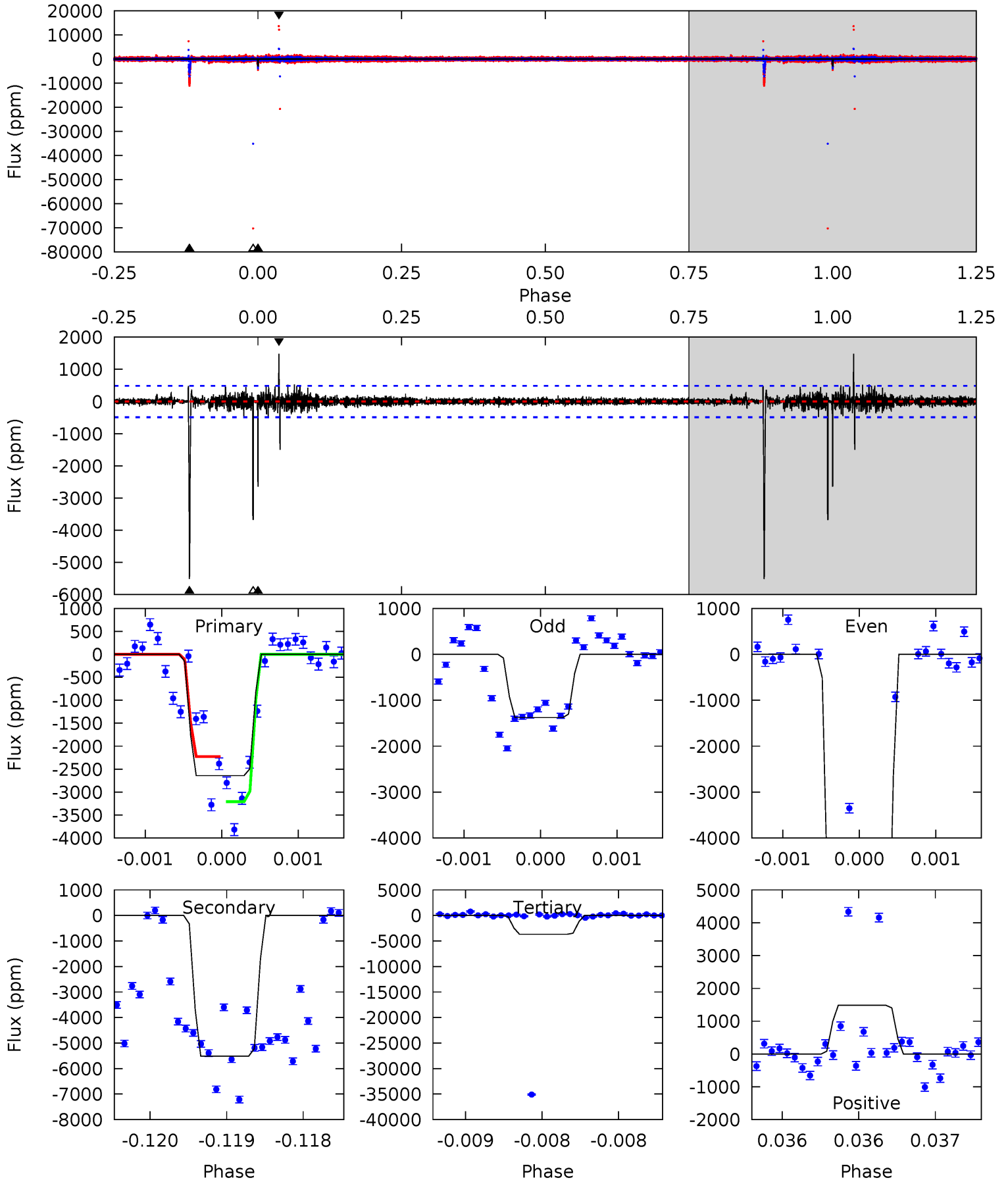
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.9	23.2	14.5	93.4	5.44	3.27	1.90	2.41	-76.4	8.68	-70.2	2.32	-2.99	0.80	2.66



Alt Model-Shift Uniqueness Test

007679979-02, P = 349.107373 Days, E = 66.048109 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.8	62.2	41.5	16.7	5.50	3.37	1.33	-11.8	13.1	20.7	45.5	1.05	0.78	0.21	6.29



Stellar Parameters For KIC 007679979

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5692^{+141}_{-155}	$4.553^{+0.042}_{-0.168}$	$-0.100^{+0.300}_{-0.300}$	$0.851^{+0.207}_{-0.069}$	$0.944^{+0.094}_{-0.115}$	$2.157^{+0.372}_{-1.021}$
	+2%/-3%	+1%/-4%	+300%/-300%	+24%/-8%	+10%/-12%	+17%/-47%
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 007679979-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-3696 ± 159	$5.40^{+0.69}_{-0.42}$	337^{+20}_{-15}	5869^{+193}_{-212}	62042^{+10559}_{-12732}
Alt.	-5514 ± 89	$5.34^{+0.72}_{-0.40}$	337^{+20}_{-13}	6537^{+234}_{-239}	94715^{+13451}_{-19930}

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

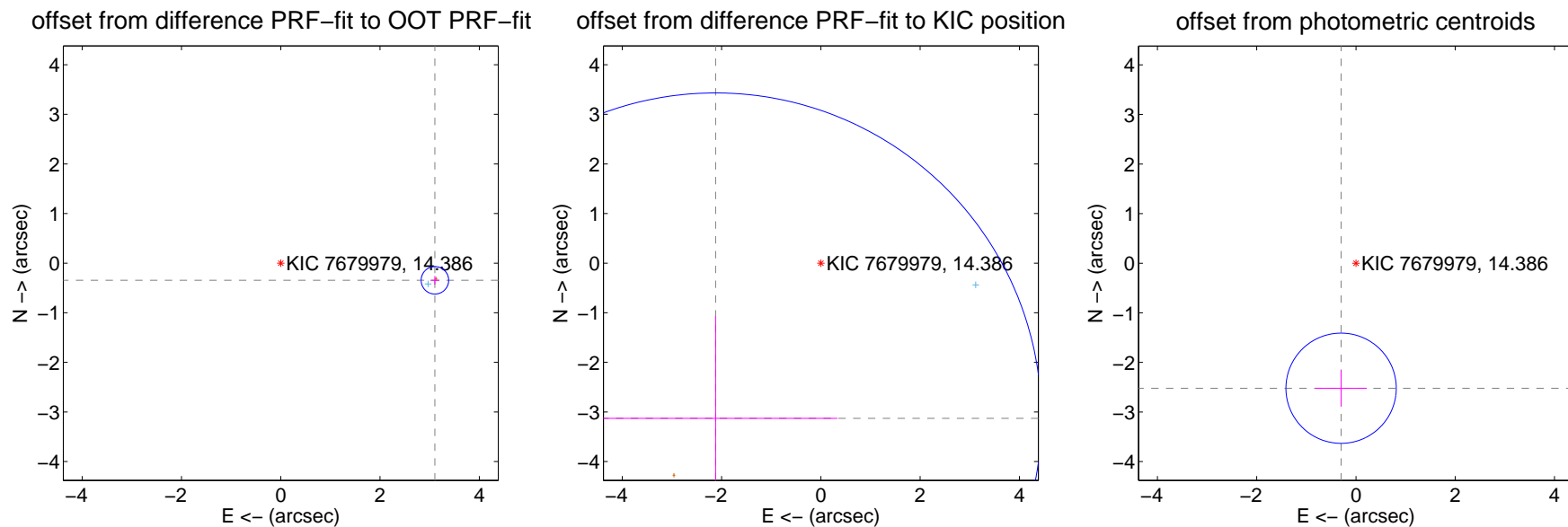
DV Centroid Data

Supplemental centroid analysis for 007679979-02. Kepler magnitude: 14.39. Transit SNR 23.14

There are 1 quarters with good PRF difference image offsets

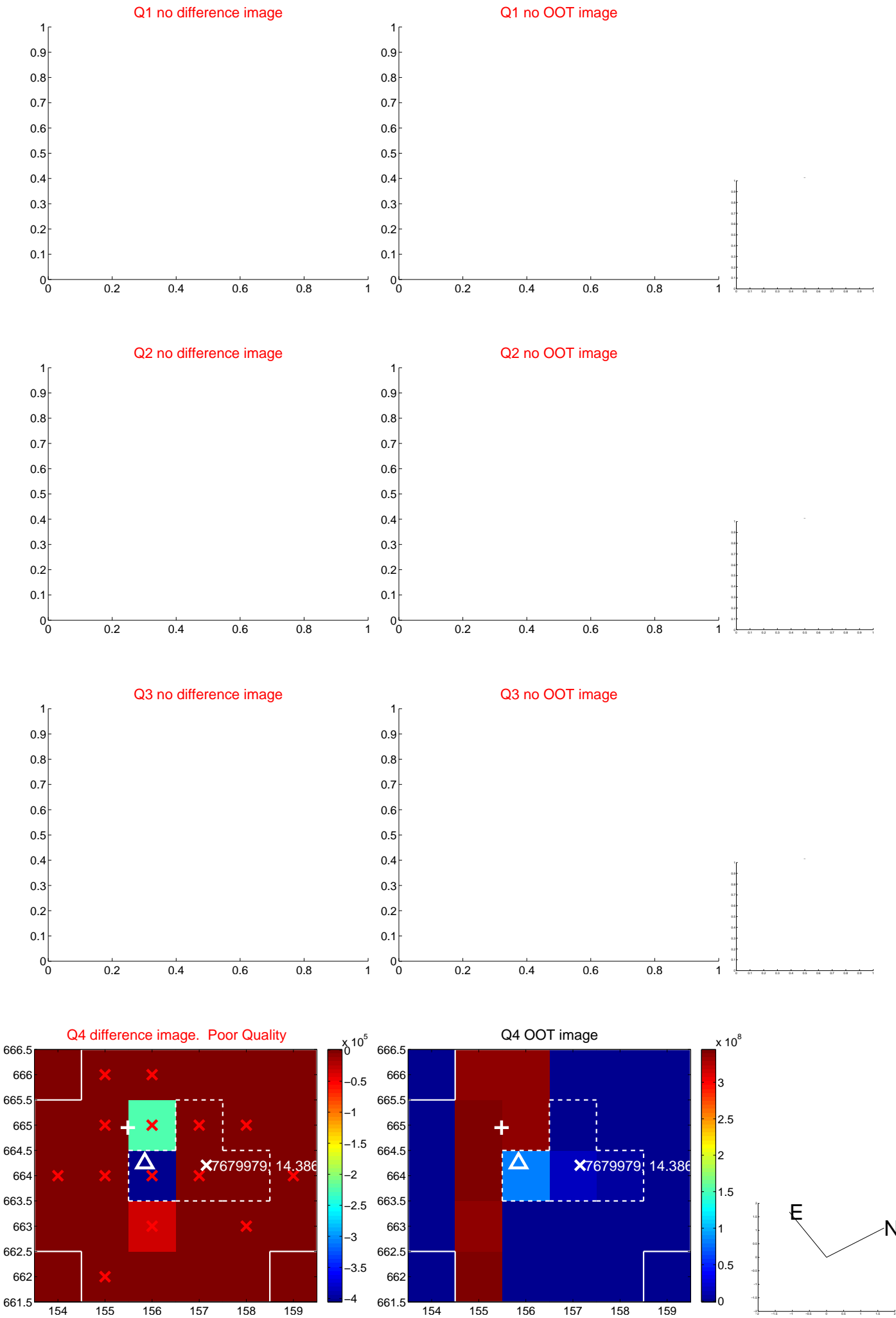
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.124 ± 0.092	33.81	-3.105 ± 0.092	-0.346 ± 0.087
PRF-fit source offset from KIC position	3.779 ± 2.187	1.73	2.119 ± 2.452	-3.129 ± 2.054
photometric centroid source offset	2.54 ± 0.37	6.85	0.30 ± 0.52	-2.52 ± 0.37



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.



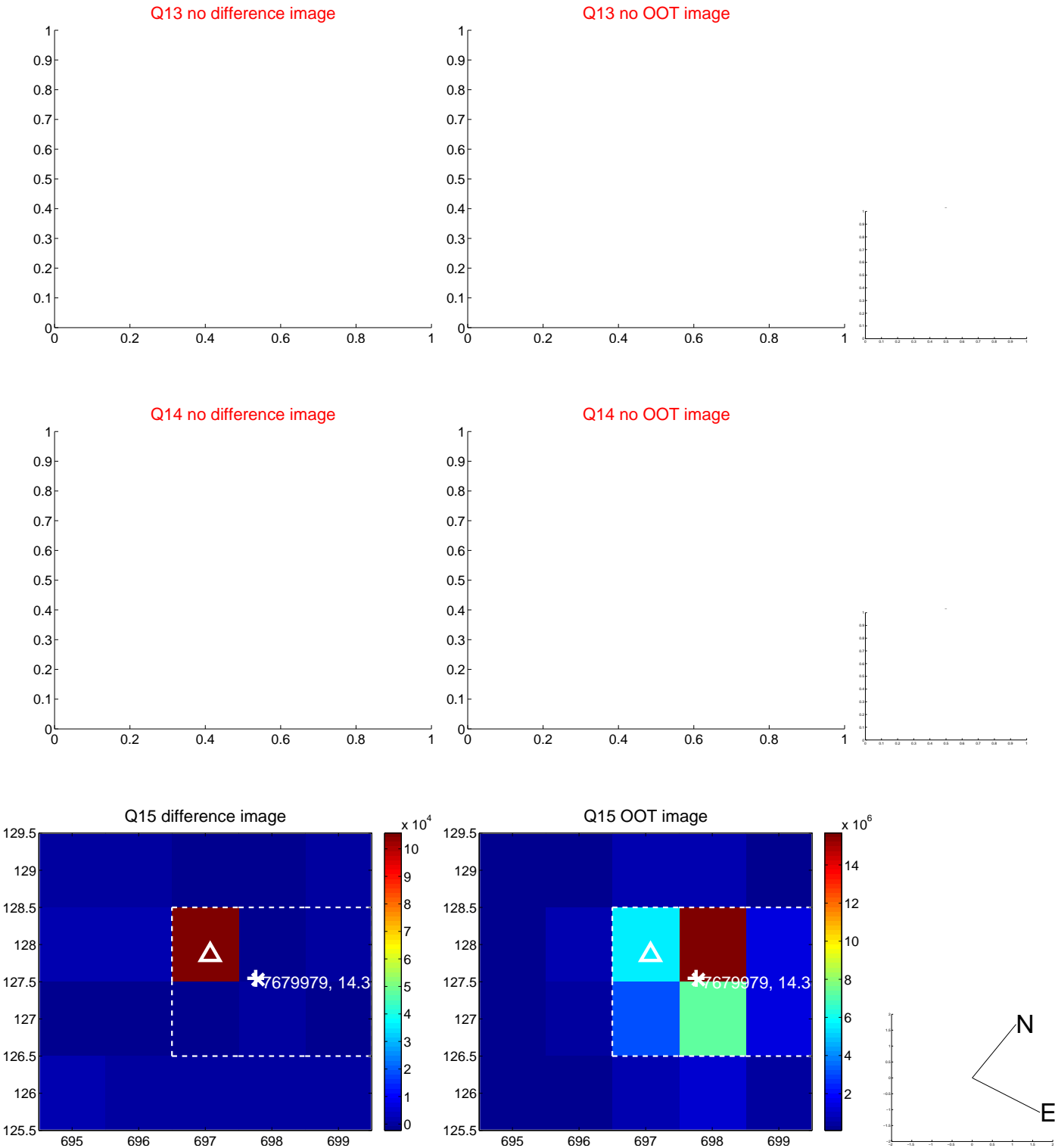
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



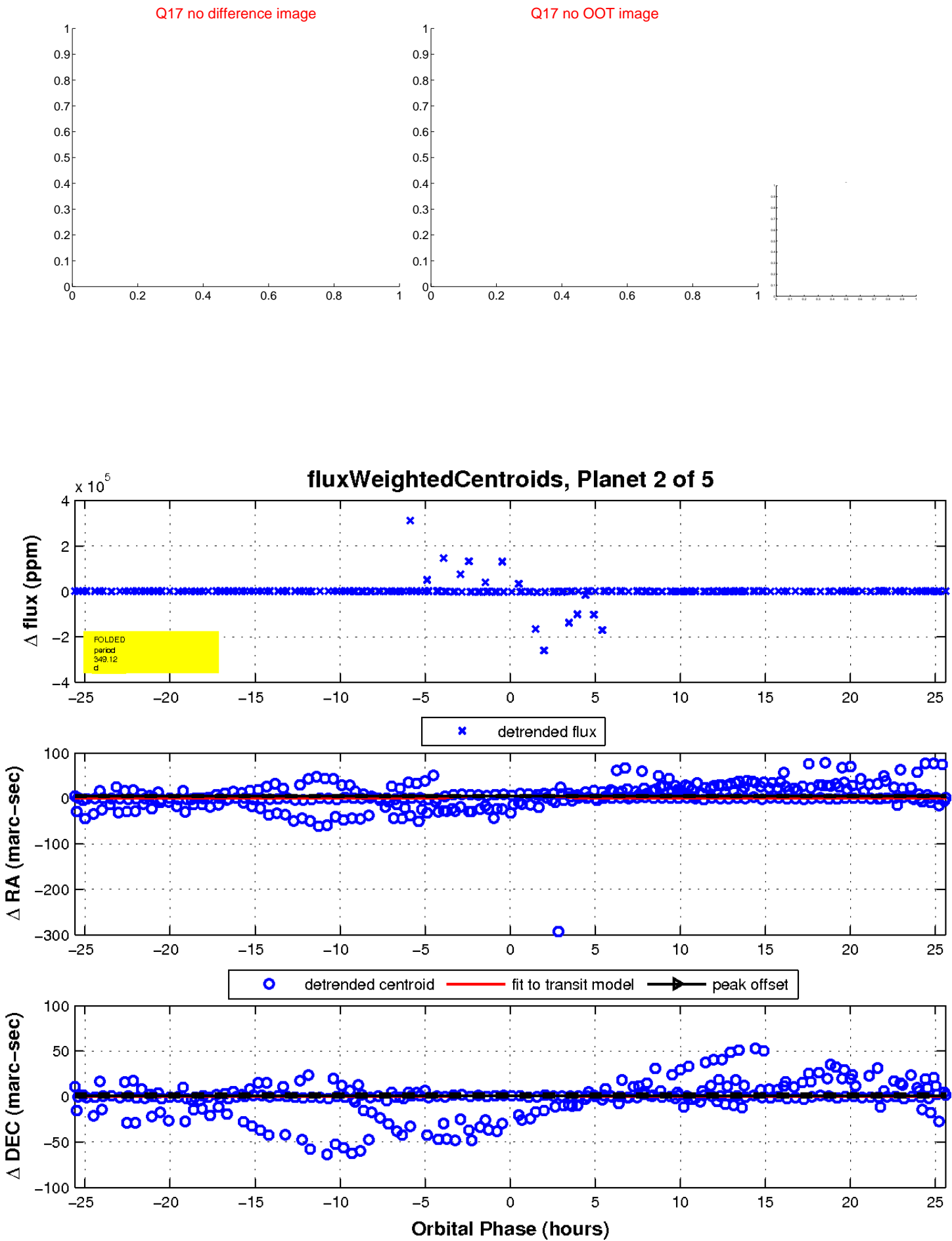
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

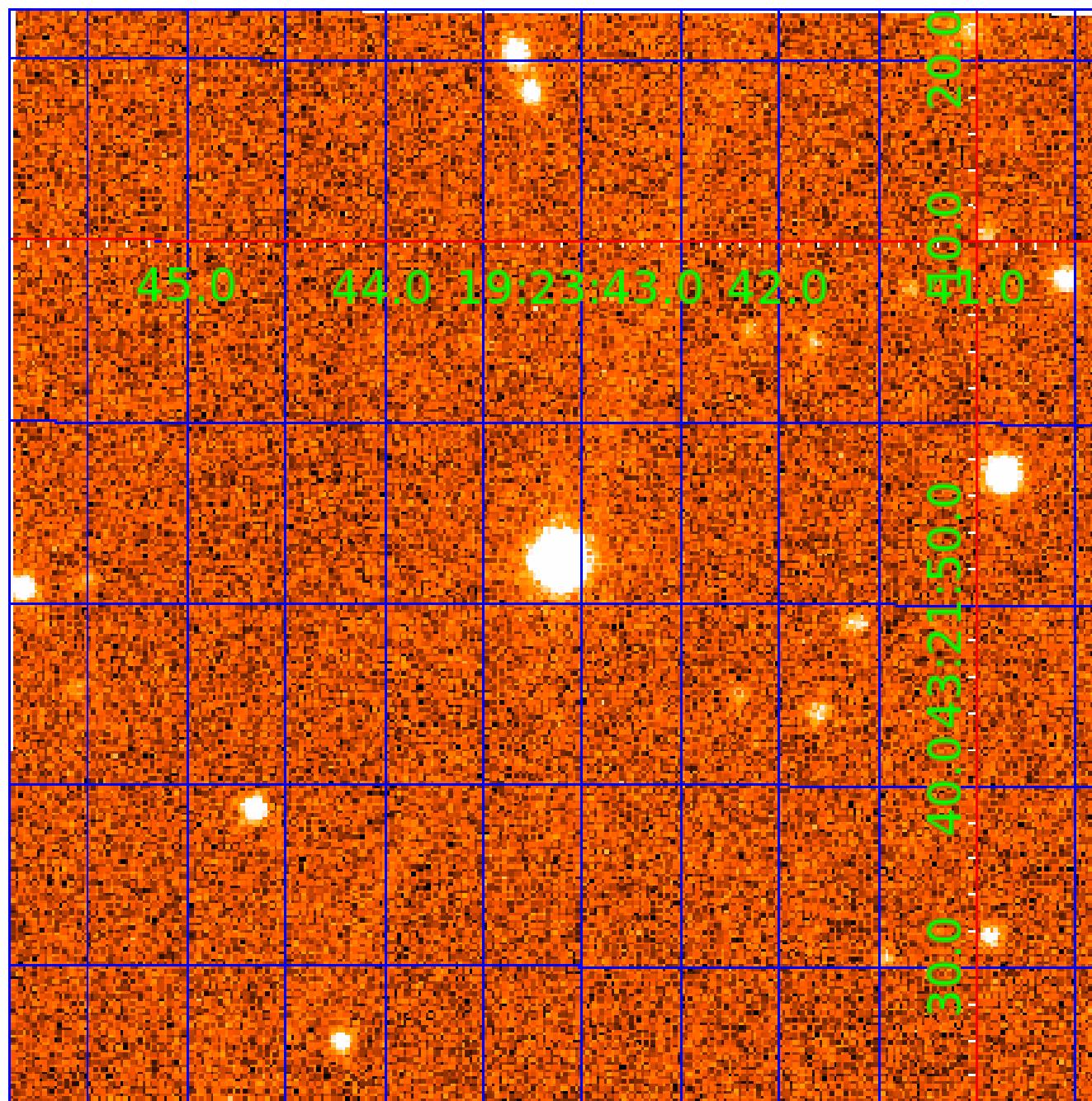


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007679979

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})
007679979-01	OBS	No	366.851368	370.953729	4720.4	6.891	45.9	30.0	0.85	5692	7.13	0.70
007679979-02	OBS	No	349.120804	415.085384	3043.8	8.565	24.8	23.1	0.85	5692	5.31	0.75
007679979-03	OBS	No	344.672132	421.223012	3814.8	2.993	35.4	19.7	0.85	5692	5.26	0.76
007679979-04	OBS	No	379.500500	420.437274	2362.5	6.186	16.0	11.0	0.85	5692	4.19	0.67
007679979-05	OBS	No	348.950715	409.649207	661.8	12.000	13.0	-1.0	0.85	5692	2.17	0.75

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007679979-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_TER_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—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.

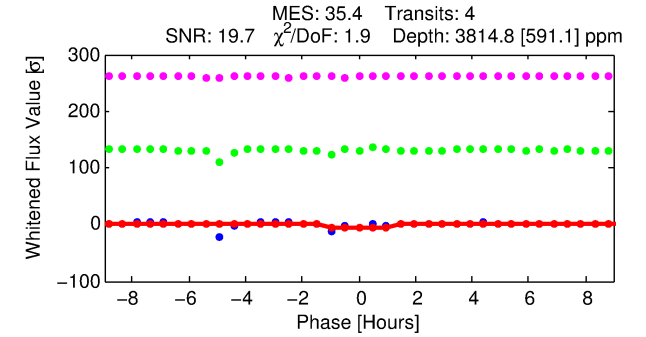
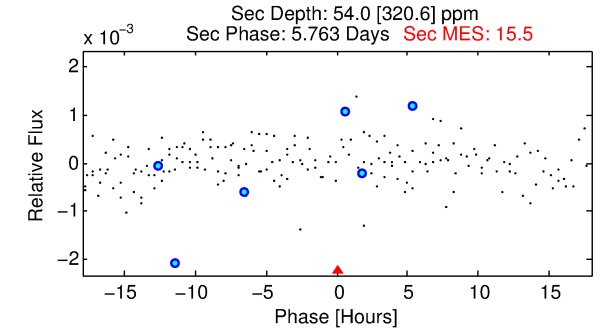
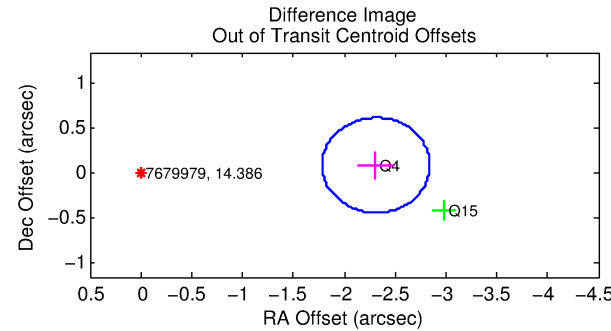
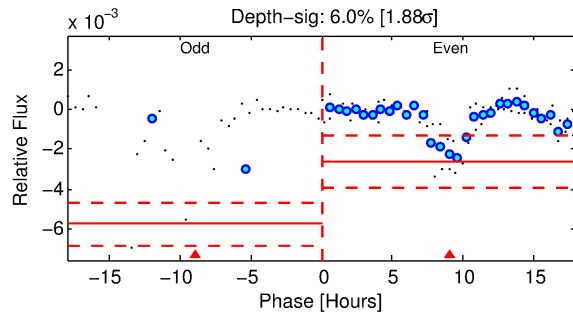
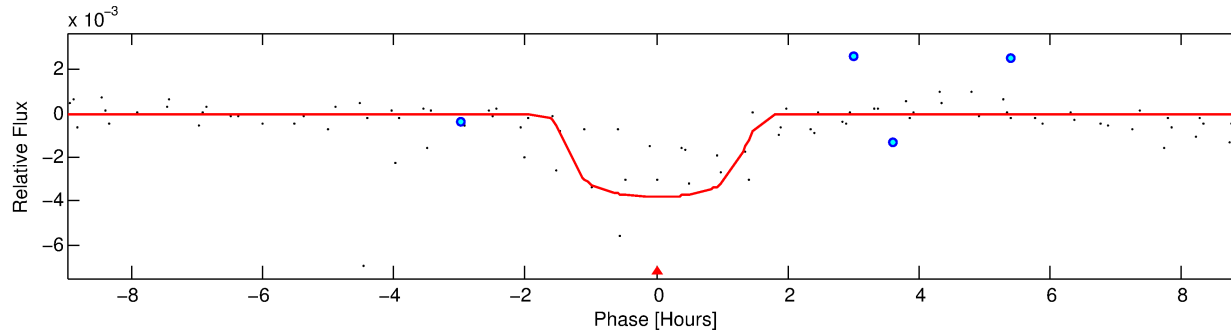
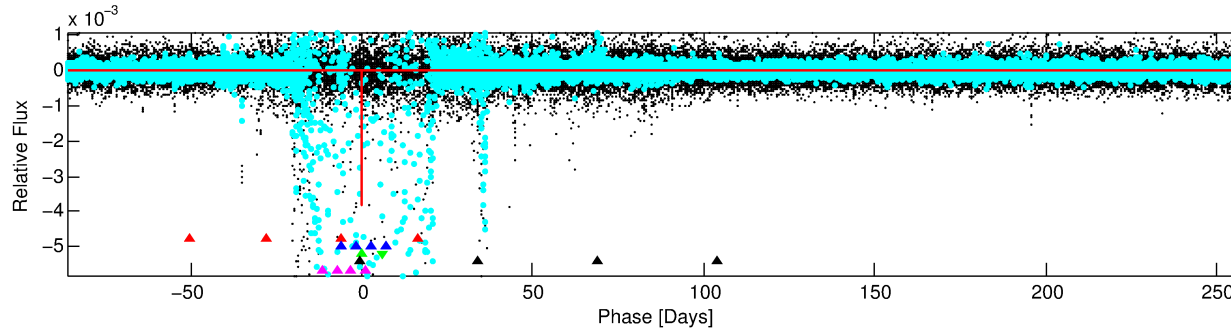
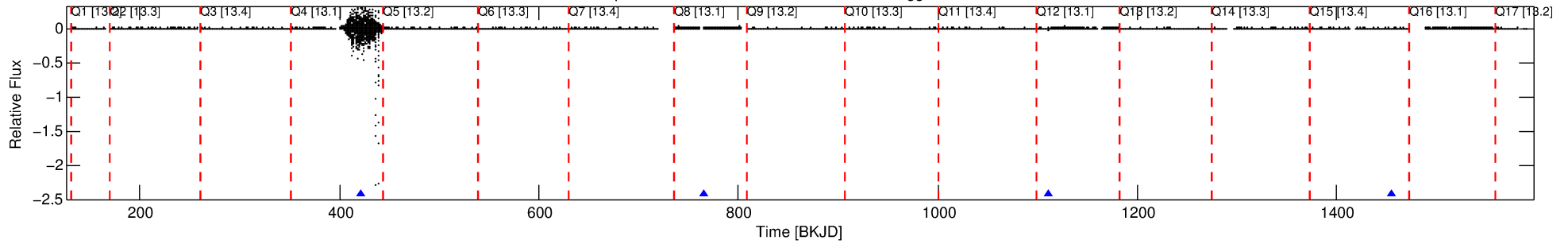
Ephemeris Match Information For 007679979-03

No Significant Match Found

DV One-Page Summary

KIC: 7679979 Candidate: 3 of 5 Period: 344.672 d

Kp: 14.39 R*: 0.85 Rs Teff: 5692.0 K Logg: 4.55 Fe/H: -0.100



DV Fit Results:

Period = 344.67213 [0.00476] d
Epoch = 421.2230 [0.0113] BKJD
Rp/R* = 0.0567 [0.1778]
a/R* = 885.80 [11841.45]
b = 0.32 [37.75]
Seff = 0.76 [0.25]
Teq = 238 [19] K
Rp = 5.26 [16.56] Re
a = 0.9439 [0.1956] AU
Ag = 955.03 [8252.22] [0.12σ]
Teffp = 2049 [4425] K [0.41σ]

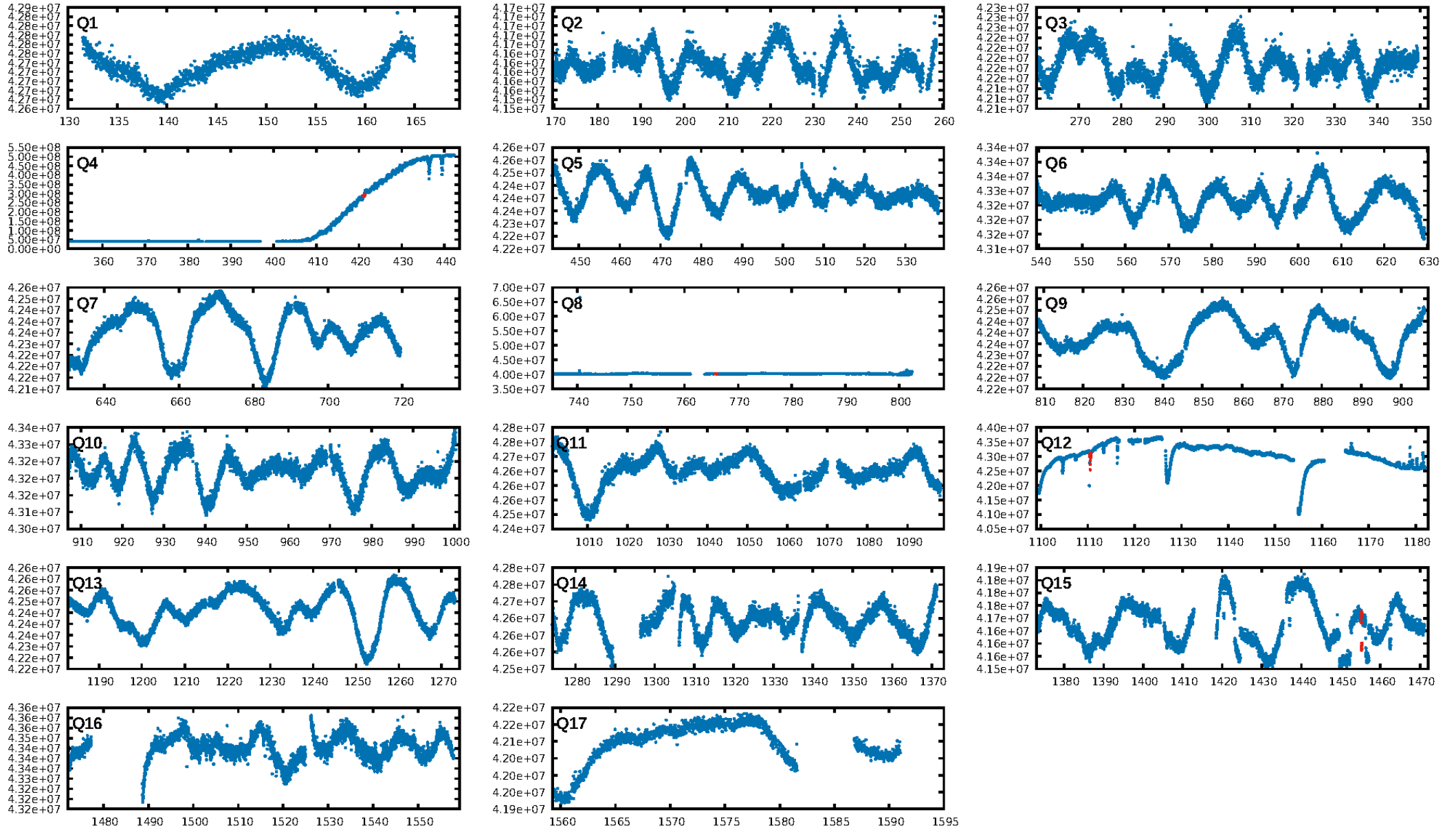
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [8.30σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 65.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 5.95
Centroid-sig: 0.0%
Centroid-so: 24.449 arcsec [56.20σ]
OotOffset-rm: 2.313 arcsec [13.09σ]
KicOffset-rm: 5.214 arcsec [1.49σ]
OotOffset-st: 0/1/1/0 [2]
KicOffset-st: 0/1/1/0 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [3/3]

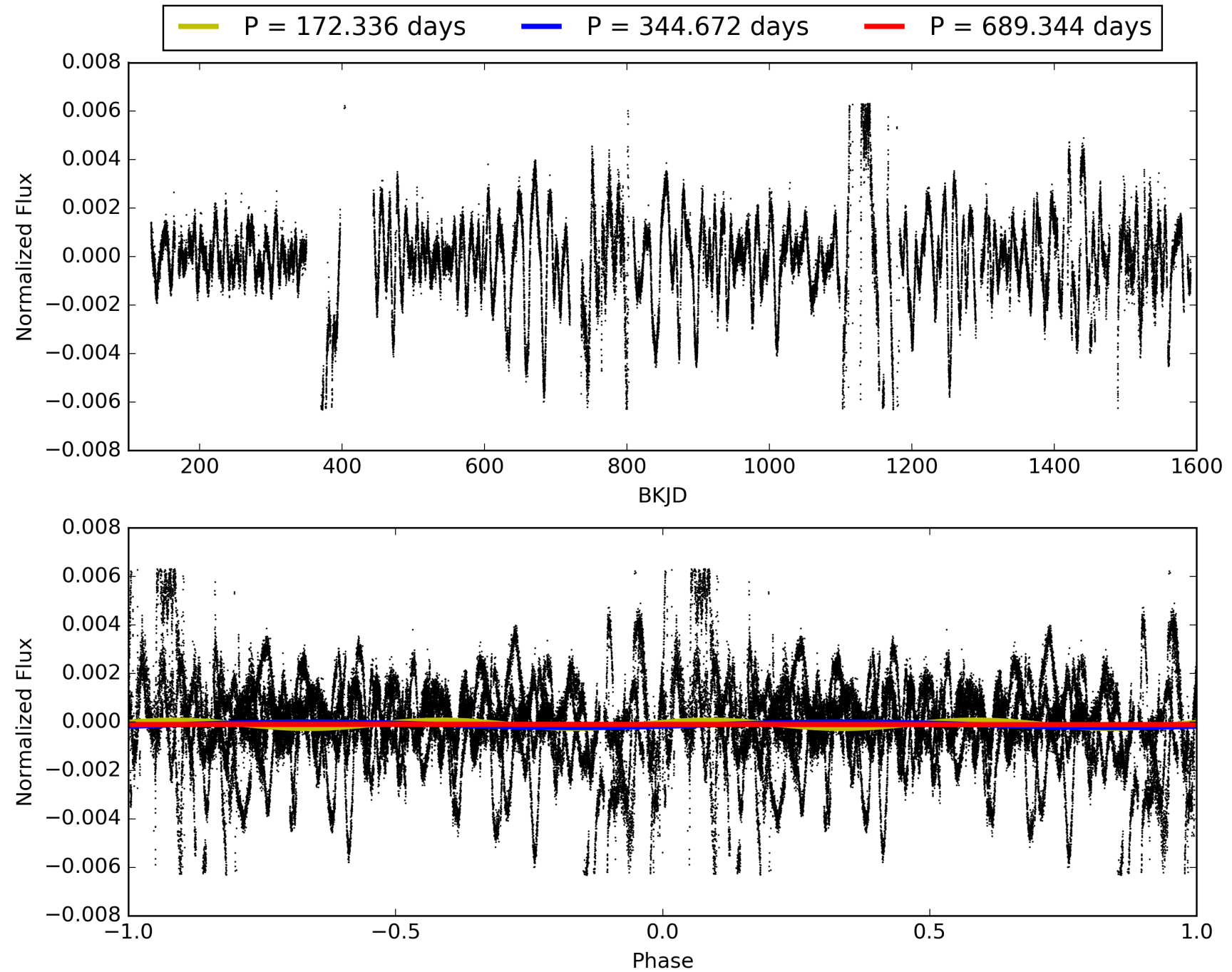
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:28:57 Z

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

TCE 007679979-03, PDC Light Curves

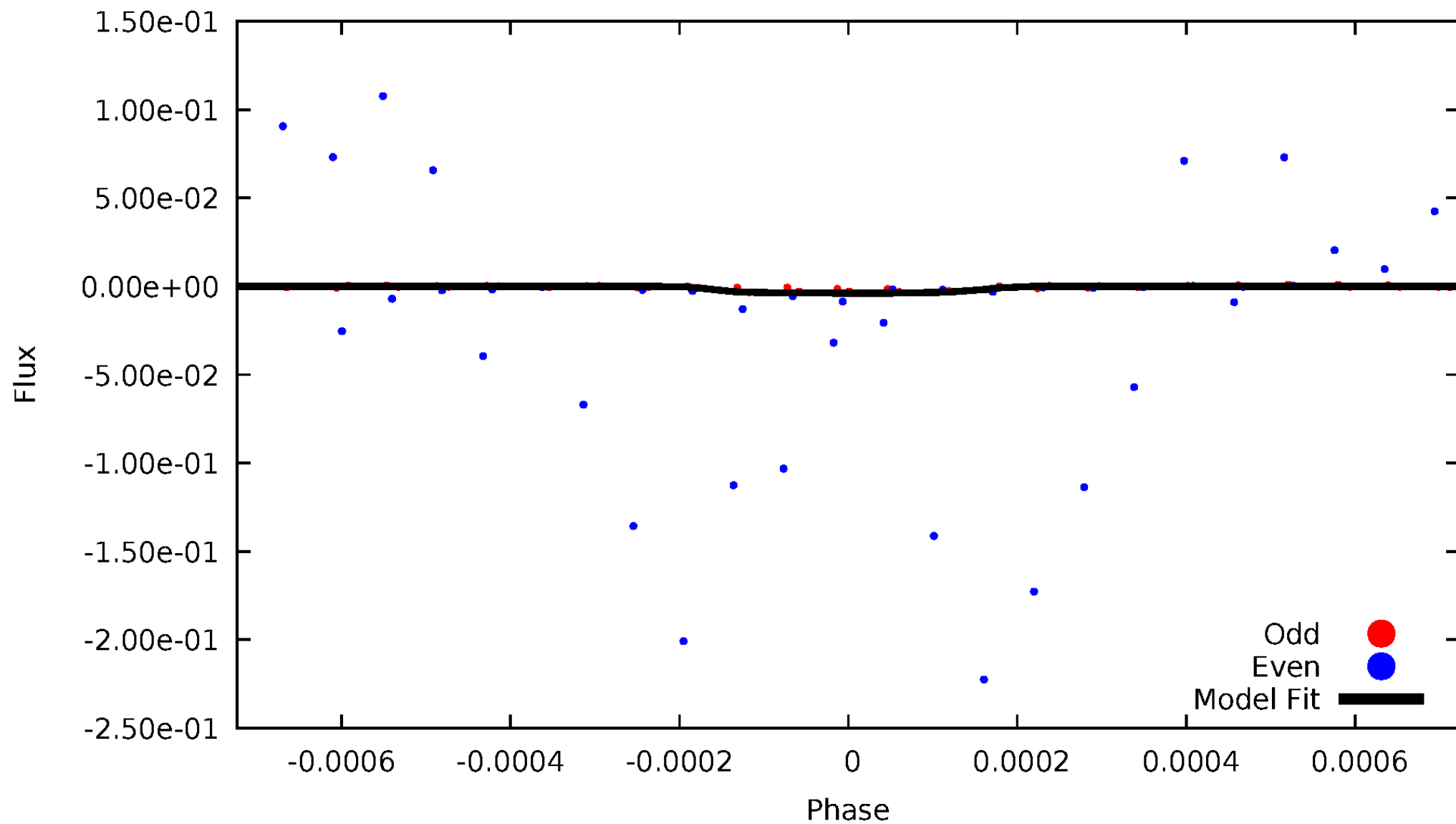


TCE 007679979-03



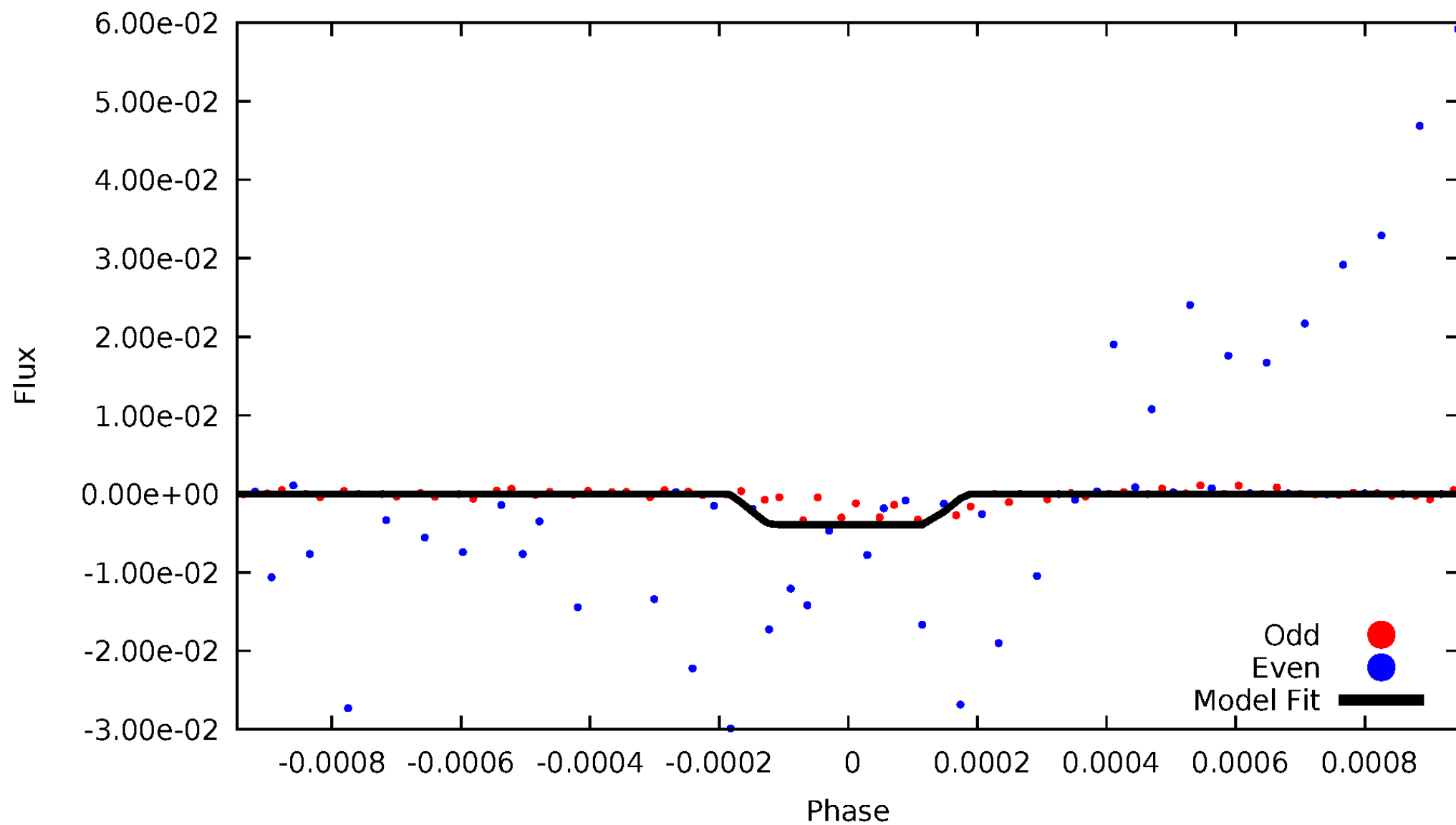
DV Odd/Even

TCE 007679979-03



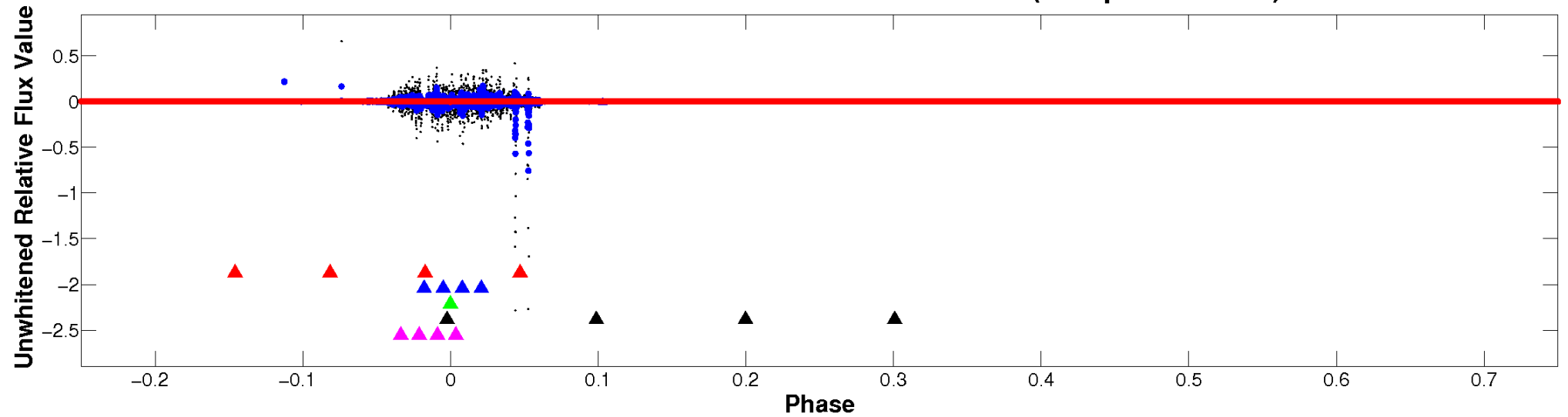
ALT Odd/Even

TCE 007679979-03

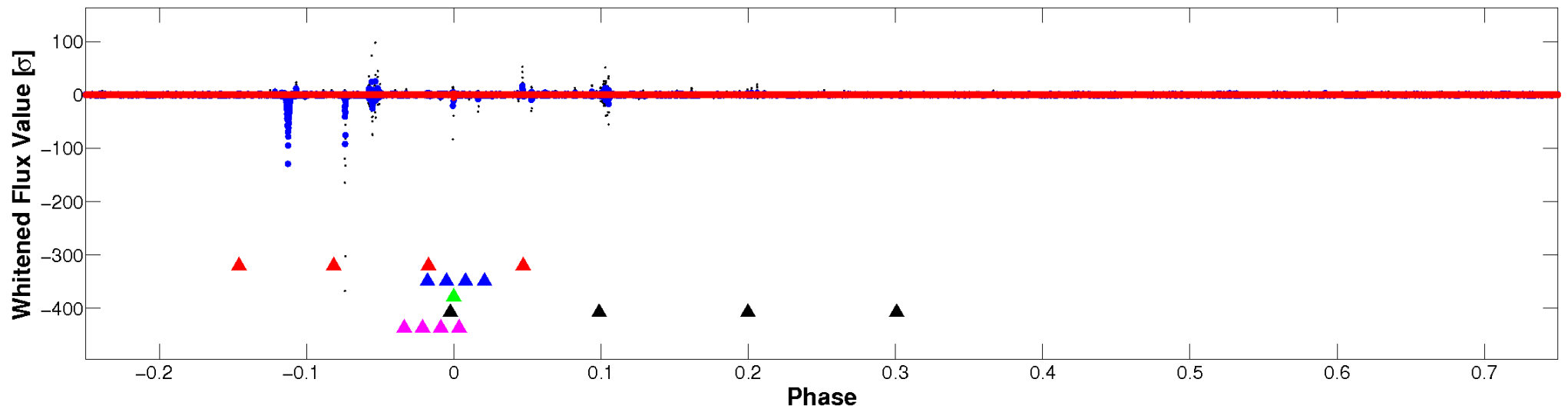


Non-Whitened Vs. Whitened Light Curve

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

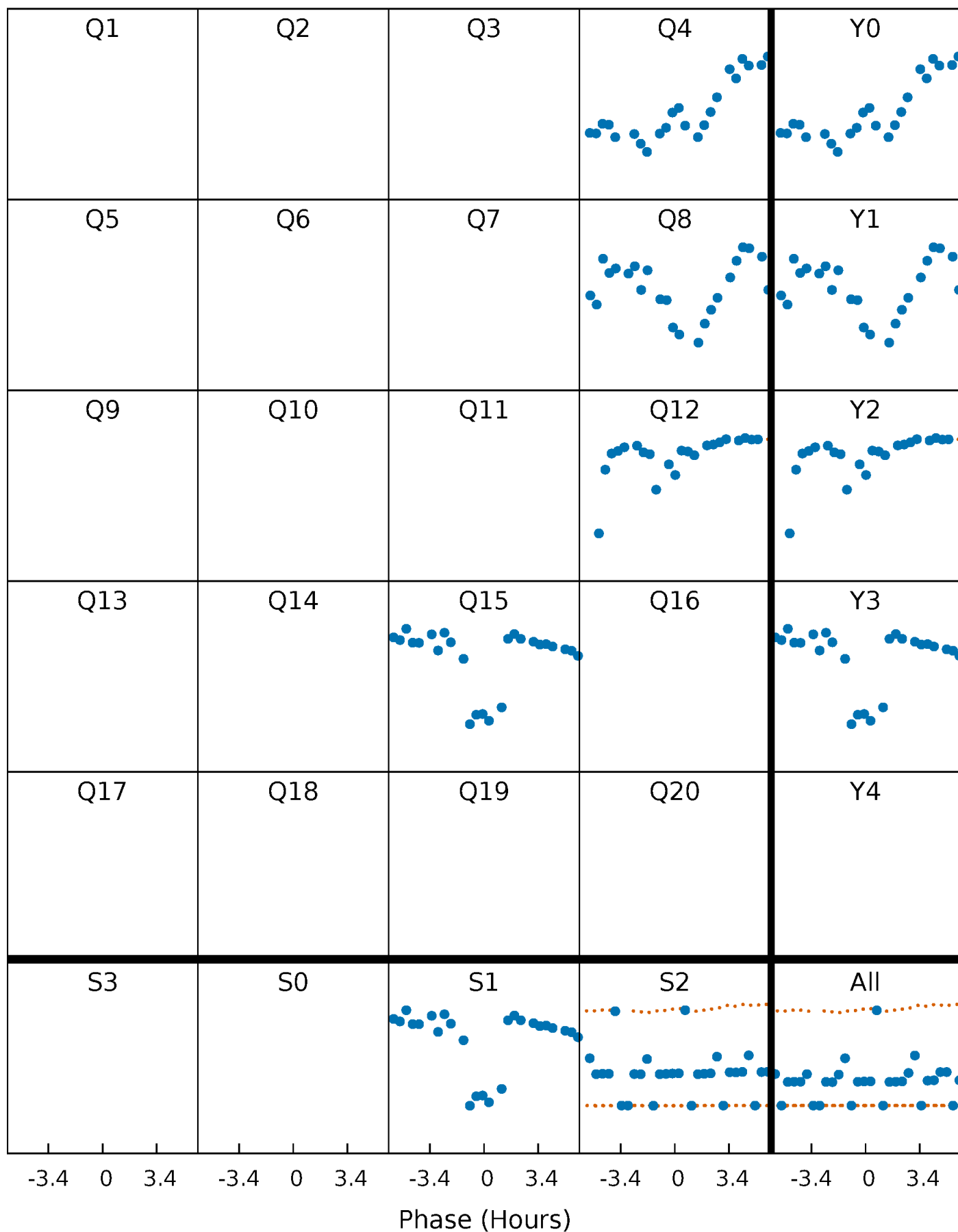


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



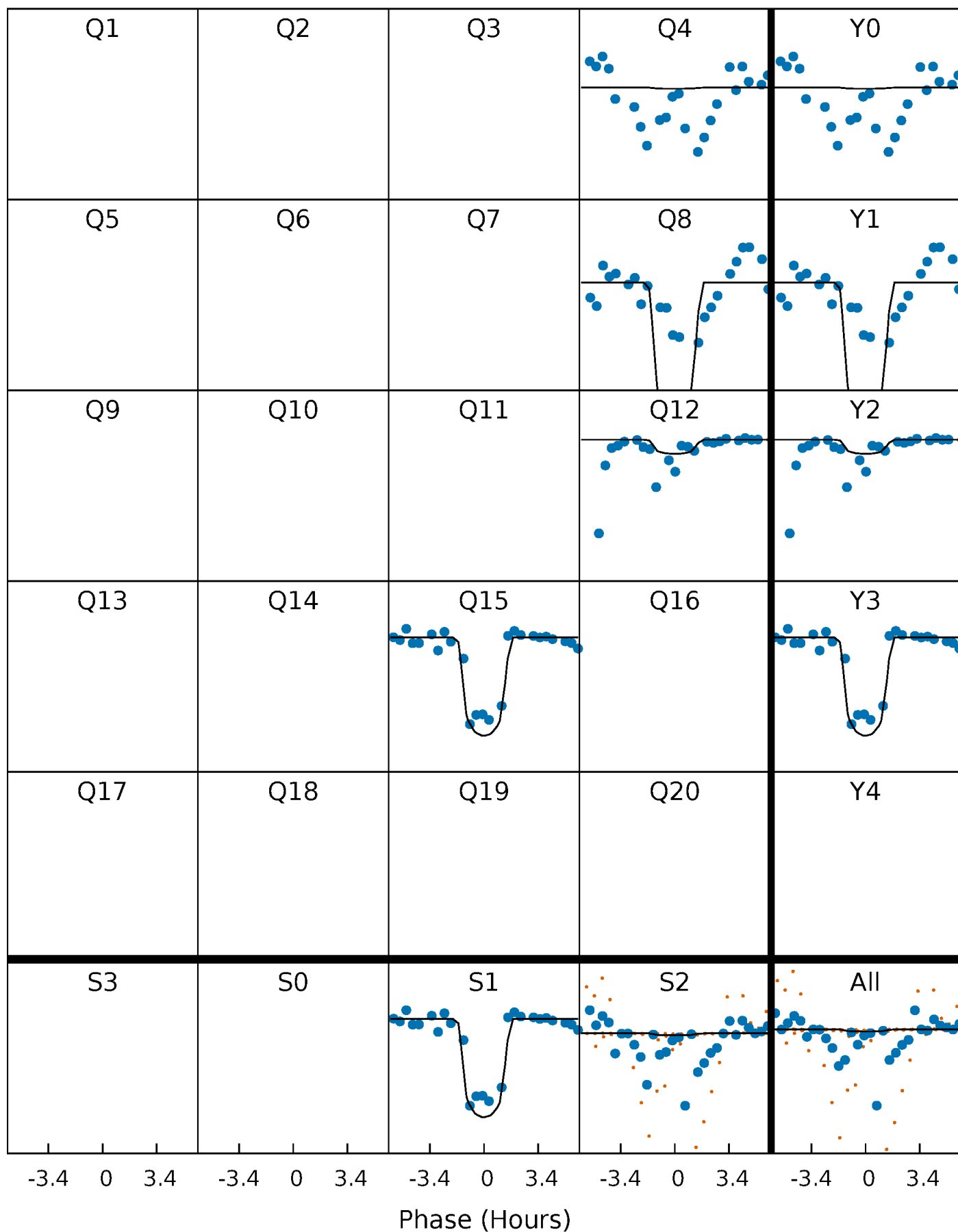
PDC Quarter-Phased Transit Curves

TCE 007679979-03 P=344.672132 Days $T_0=421.223012$ (BKJD)



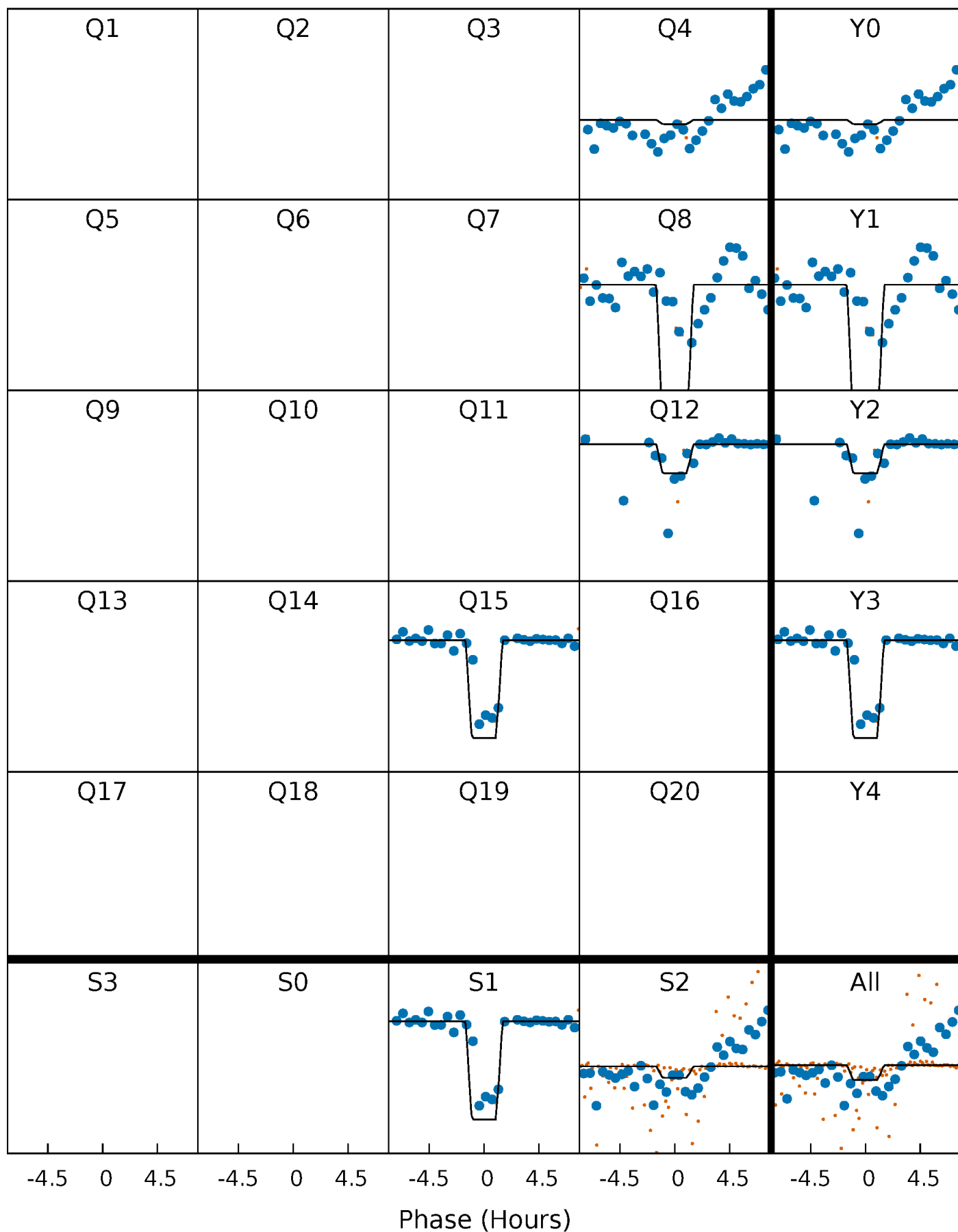
DV Quarter-Phased Transit Curves

TCE 007679979-03 P=344.672132 Days $T_0=421.223012$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

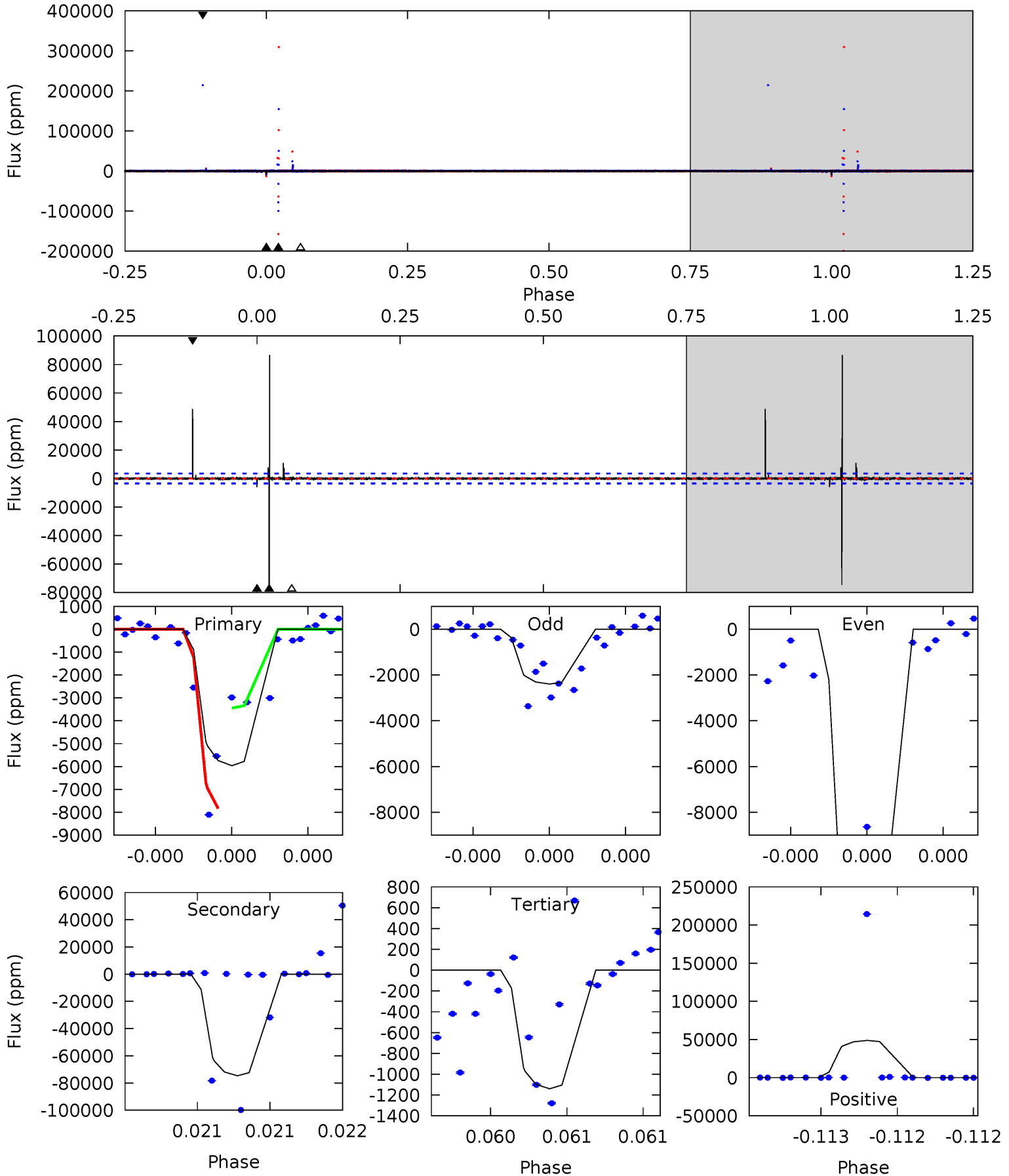
TCE 007679979-03 P=344.668182 Days $T_0=421.218474$ (BKJD)



DV Model-Shift Uniqueness Test

007679979-03, P = 344.672132 Days, E = 76.550880 Days

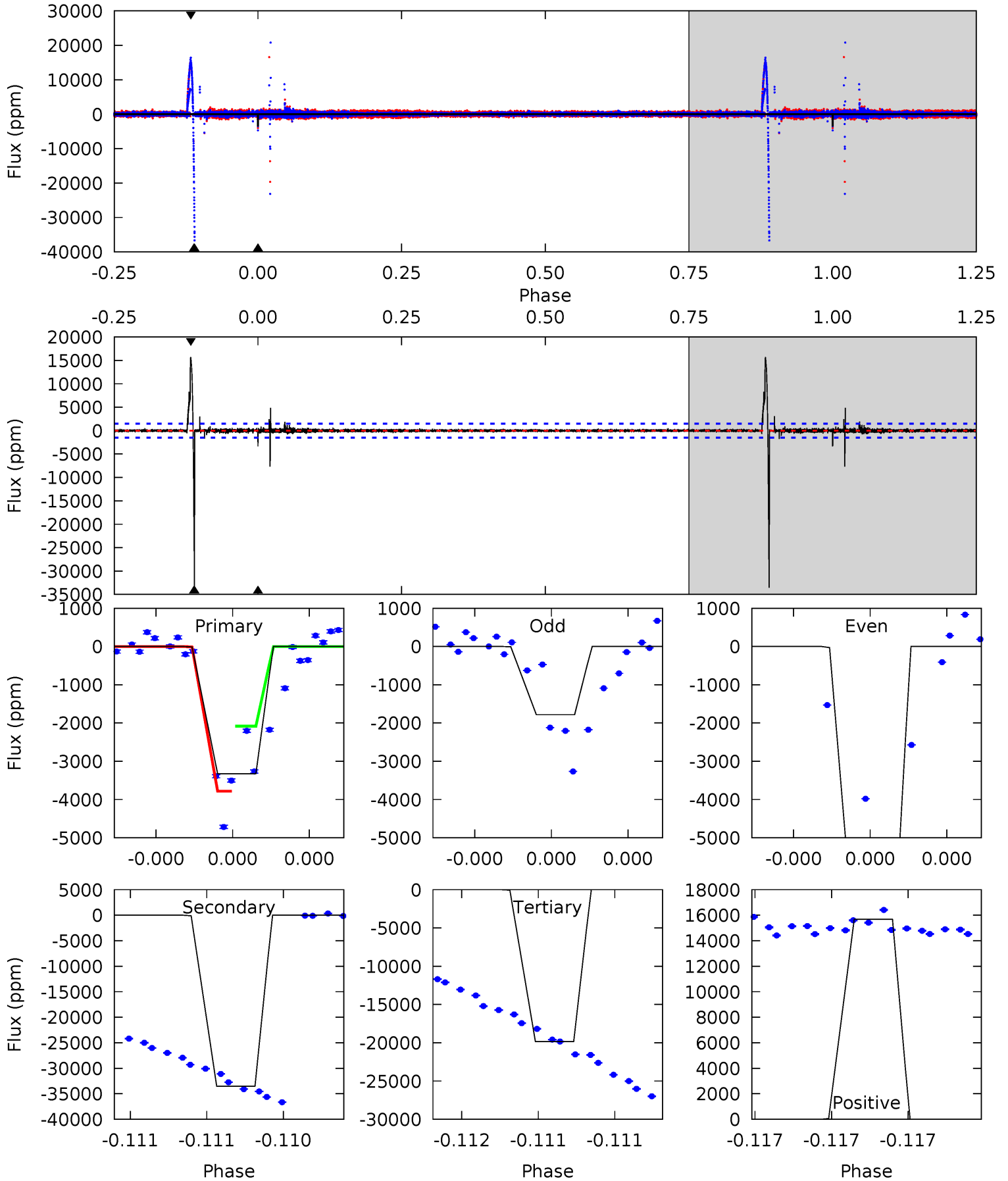
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.71	121.6	1.86	79.6	5.63	3.56	1.34	7.86	-69.8	119.8	42.1	1.65	5.98	0.54	0



Alt Model-Shift Uniqueness Test

007679979-03, P = 344.668182 Days, E = 76.550292 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.5	126.4	74.8	59.1	5.63	3.57	2.43	-62.3	-46.6	51.5	67.3	1.45	1.23	0.32	3.02



Stellar Parameters For KIC 007679979

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5692^{+141}_{-155}	$4.553^{+0.042}_{-0.168}$	$-0.100^{+0.300}_{-0.300}$	$0.851^{+0.207}_{-0.069}$	$0.944^{+0.094}_{-0.115}$	$2.157^{+0.372}_{-1.021}$
	+2%/-3%	+1%/-4%	+300%/-300%	+24%/-8%	+10%/-12%	+17%/-47%
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 007679979-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-74708 ± 614	$14.19^{+13.26}_{-9.36}$	339^{+20}_{-13}	8230^{+11645}_{-2522}	$196091^{+1447564}_{-144945}$
Alt.	-33537 ± 265	$14.91^{+14.87}_{-10.79}$	340^{+21}_{-14}	6303^{+9274}_{-1690}	$76900^{+920166}_{-57405}$

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

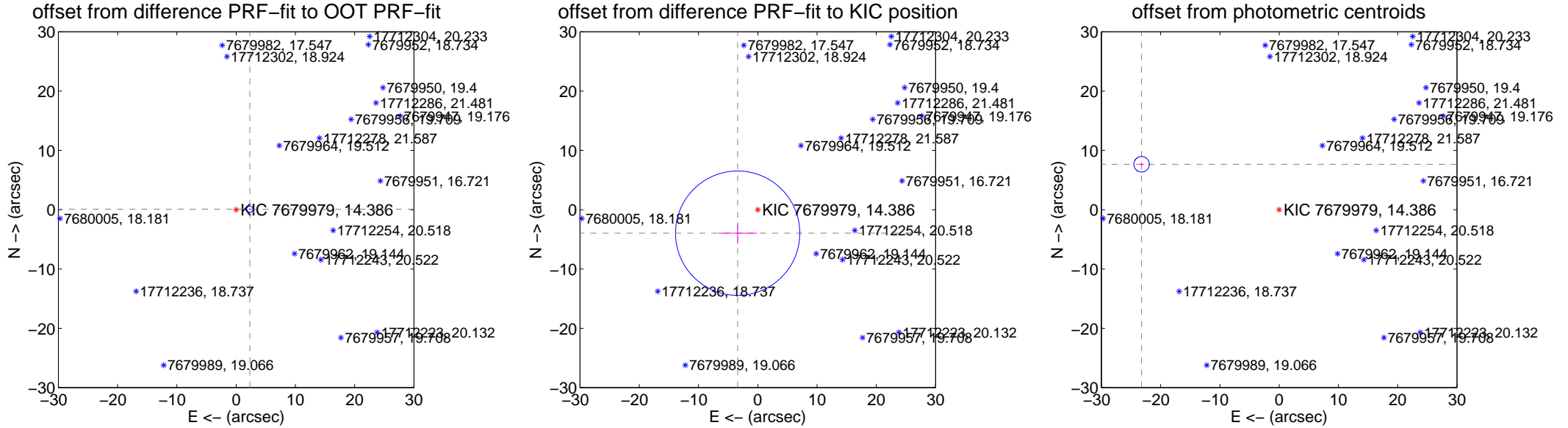
DV Centroid Data

Supplemental centroid analysis for 007679979-03. Kepler magnitude: 14.39. Transit SNR 19.69

There are 2 quarters with good PRF difference image offsets

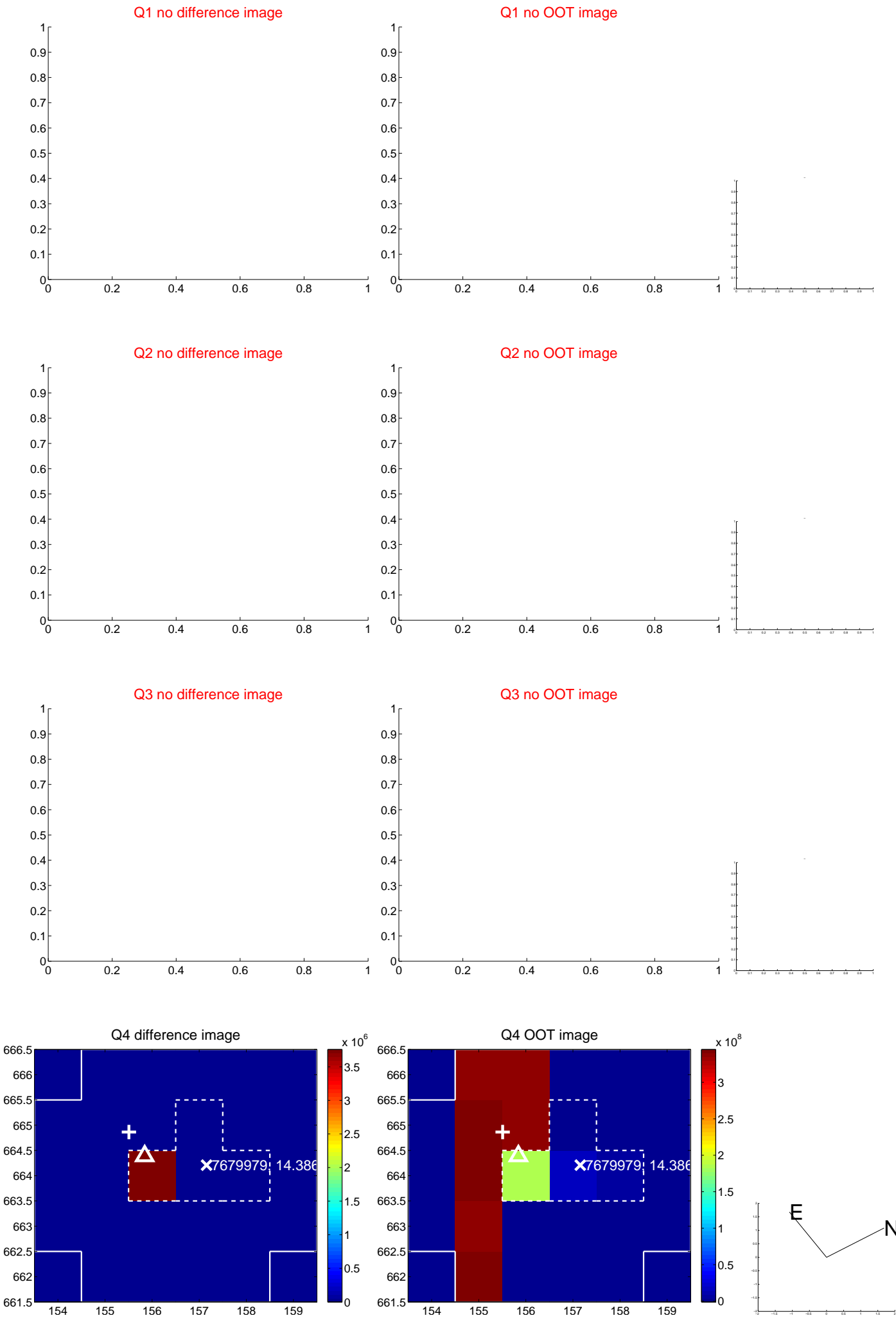
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.313 ± 0.177	13.09	-2.311 ± 0.182	0.093 ± 0.143
PRF-fit source offset from KIC position	5.214 ± 3.495	1.49	3.396 ± 3.287	-3.956 ± 1.785
photometric centroid source offset	24.45 ± 0.44	56.20	23.22 ± 0.44	7.66 ± 0.37

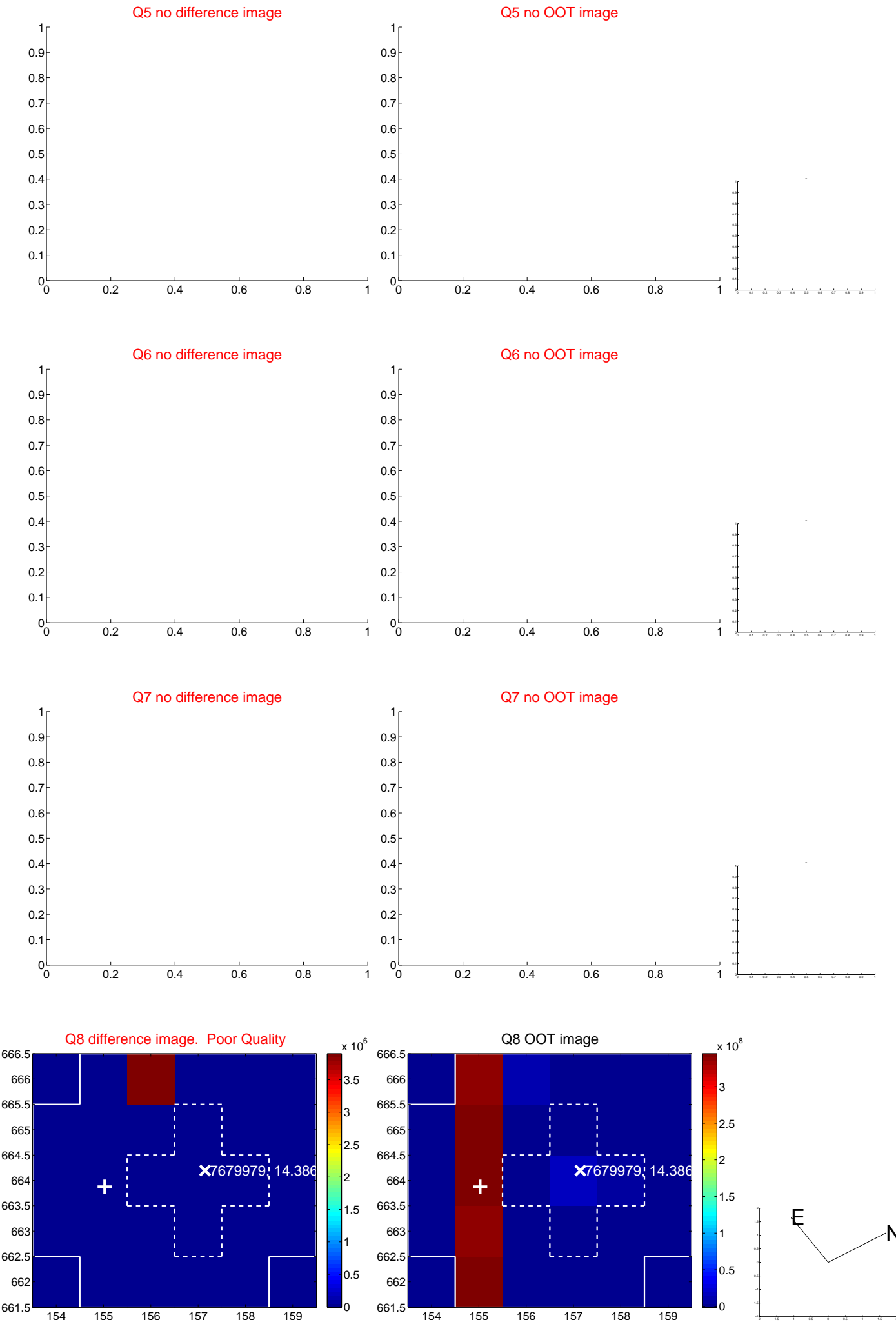


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



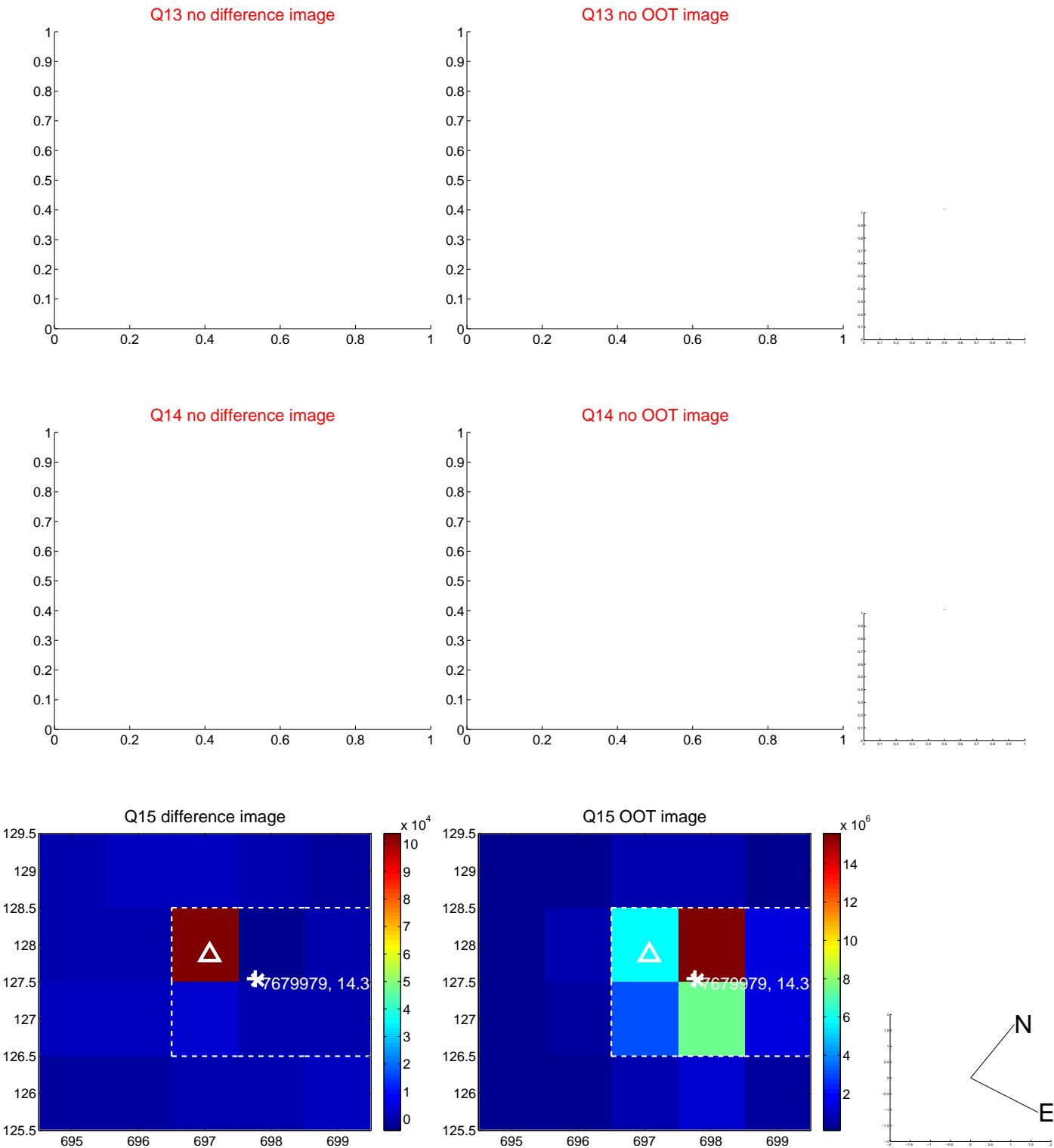
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



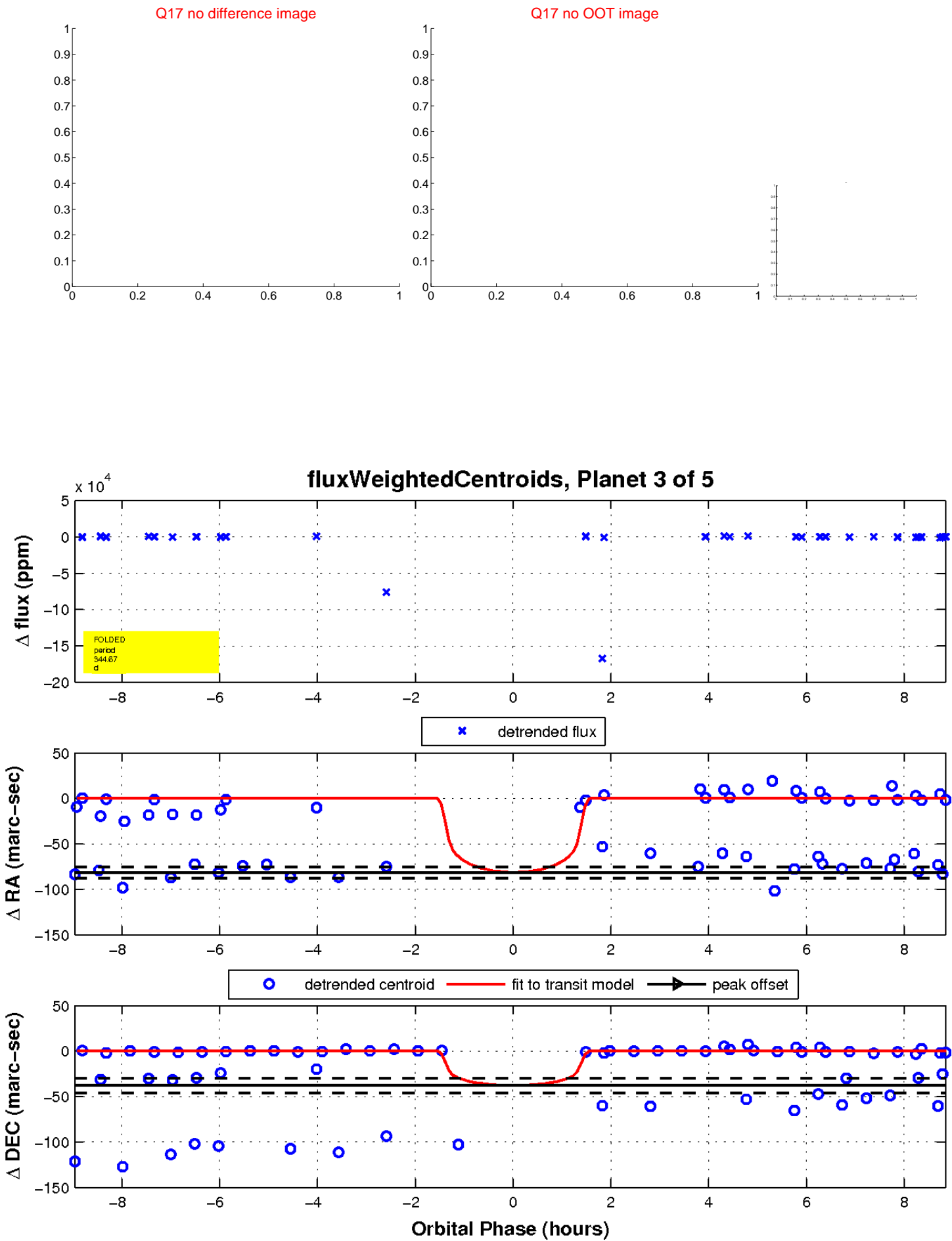
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

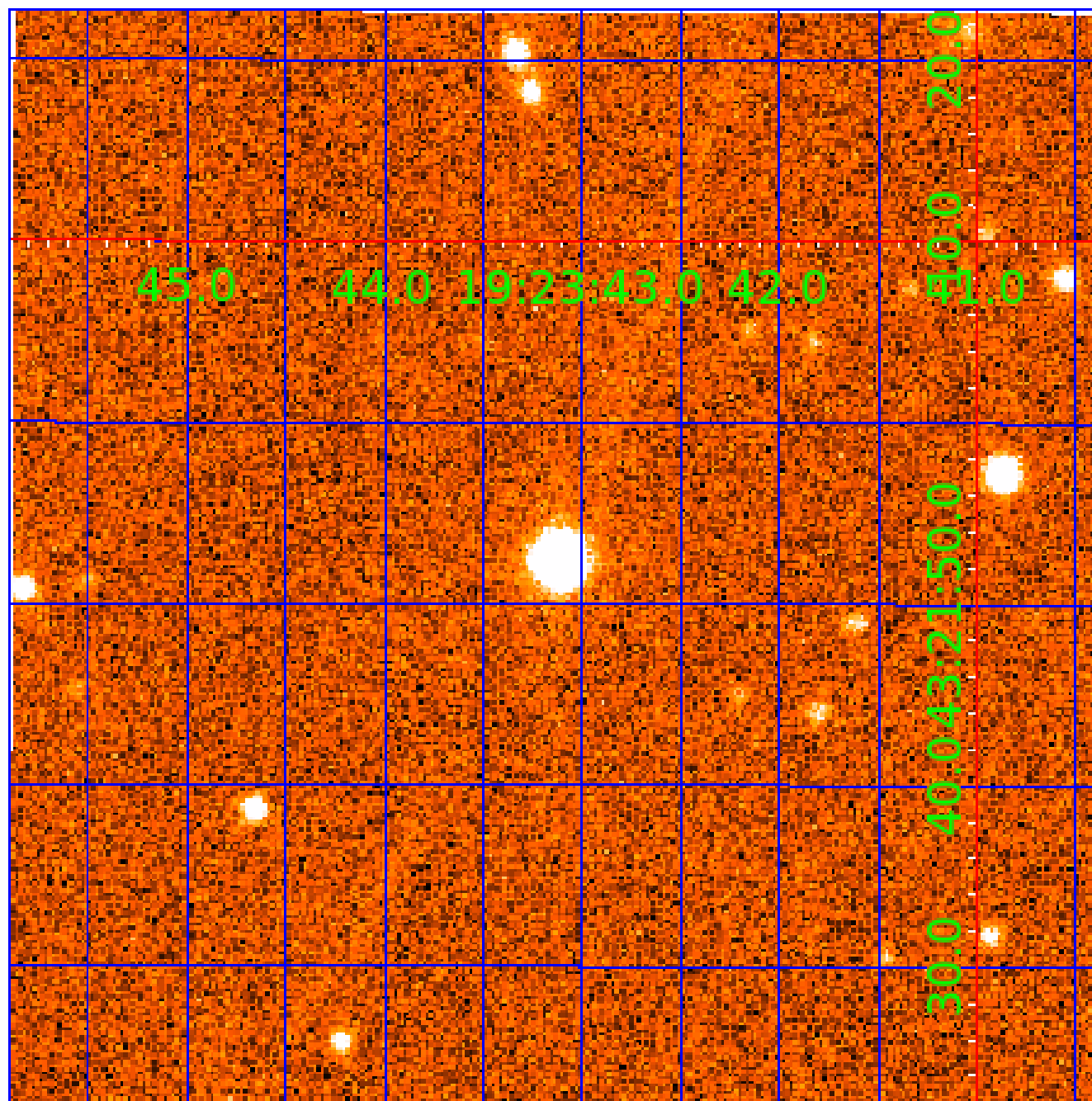


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007679979

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})
007679979-01	OBS	No	366.851368	370.953729	4720.4	6.891	45.9	30.0	0.85	5692	7.13	0.70
007679979-02	OBS	No	349.120804	415.085384	3043.8	8.565	24.8	23.1	0.85	5692	5.31	0.75
007679979-03	OBS	No	344.672132	421.223012	3814.8	2.993	35.4	19.7	0.85	5692	5.26	0.76
007679979-04	OBS	No	379.500500	420.437274	2362.5	6.186	16.0	11.0	0.85	5692	4.19	0.67
007679979-05	OBS	No	348.950715	409.649207	661.8	12.000	13.0	-1.0	0.85	5692	2.17	0.75

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007679979-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_TER_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—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.

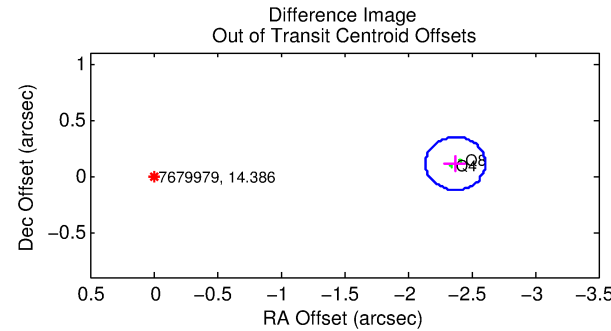
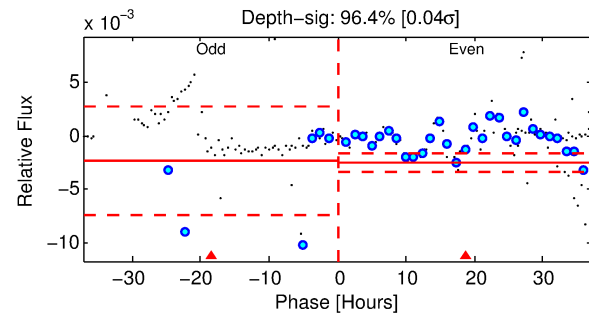
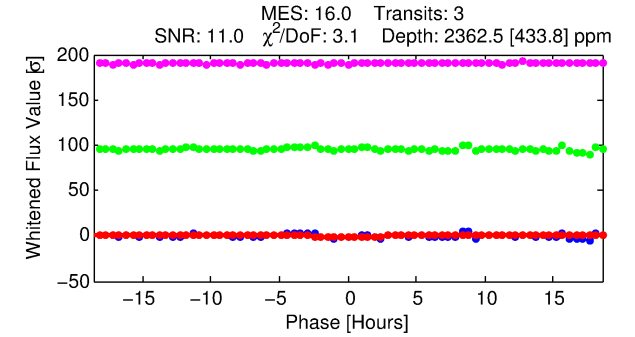
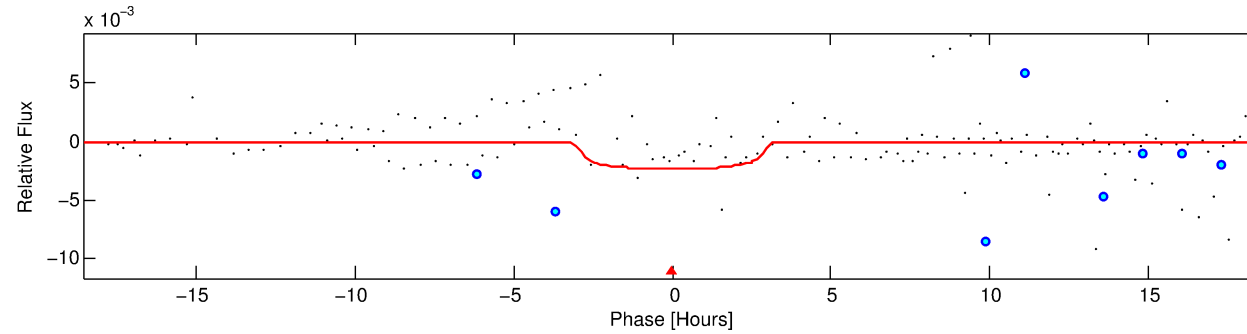
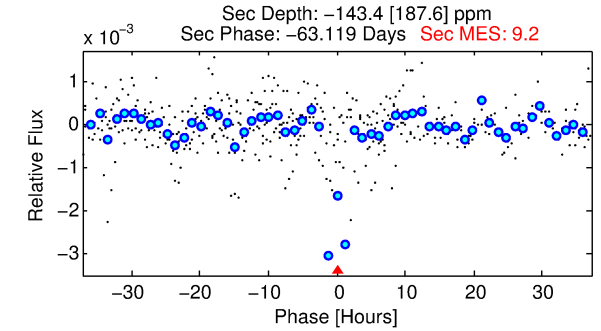
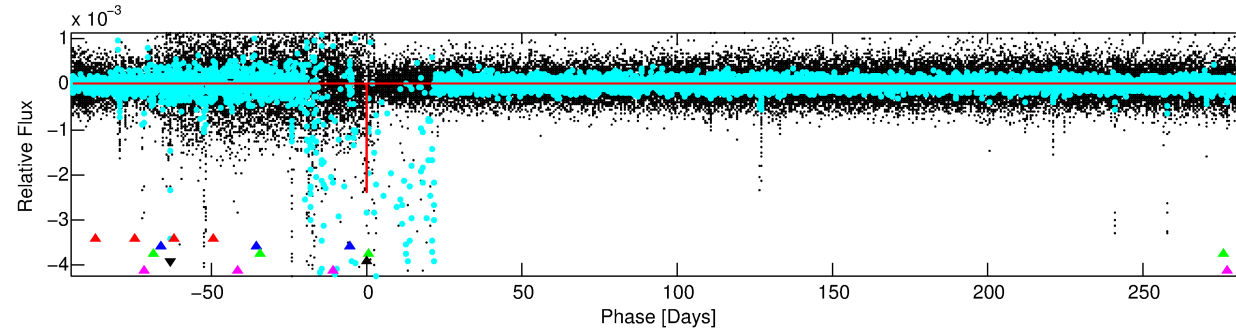
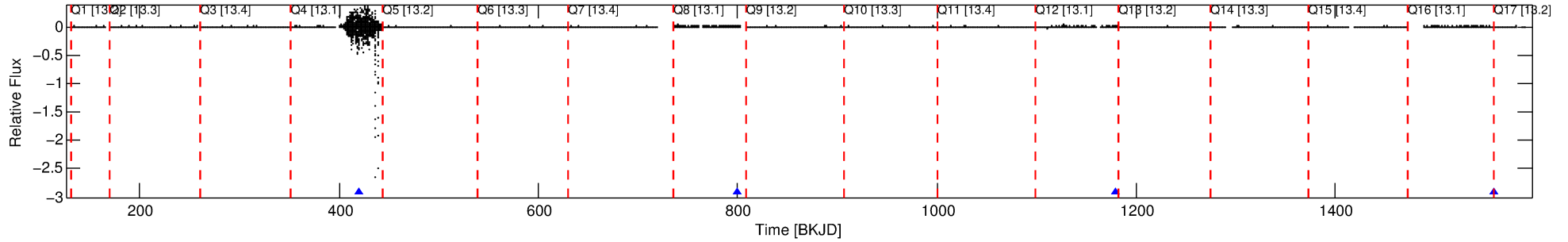
Ephemeris Match Information For 007679979-04

No Significant Match Found

DV One-Page Summary

KIC: 7679979 Candidate: 4 of 5 Period: 379.501 d

Kp: 14.39 R*: 0.85 Rs Teff: 5692.0 K Logg: 4.55 Fe/H: -0.100



DV Fit Results:

Period = 379.50050 [0.01487] d
Epoch = 420.4373 [0.0250] BKJD
Rp/R* = 0.0451 [0.0322]
a/R* = 445.73 [1324.39]
b = 0.43 [5.61]
Seff = 0.67 [0.22]
Teq = 231 [19] K
Rp = 4.19 [3.16] Re
a = 1.0064 [0.2085] AU
Ag = N/A
Teffp = N/A

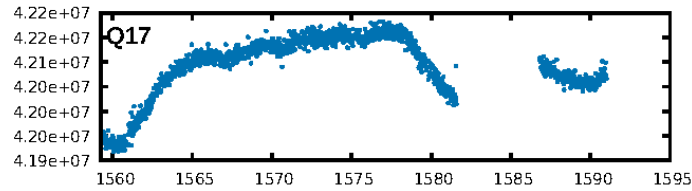
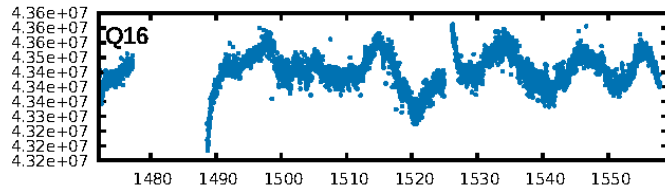
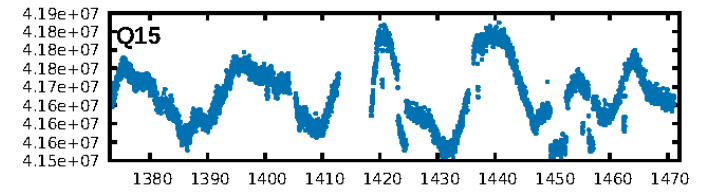
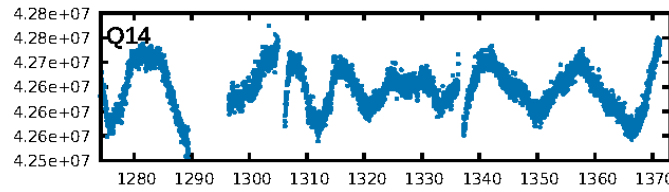
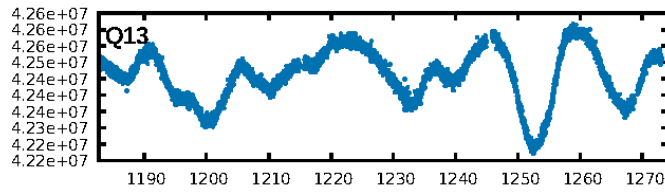
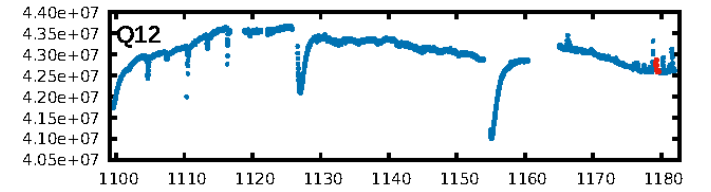
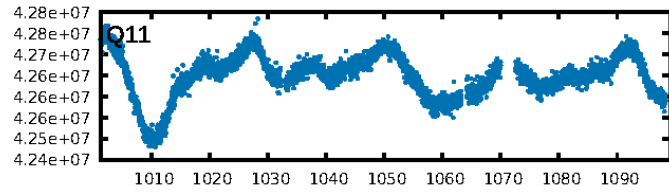
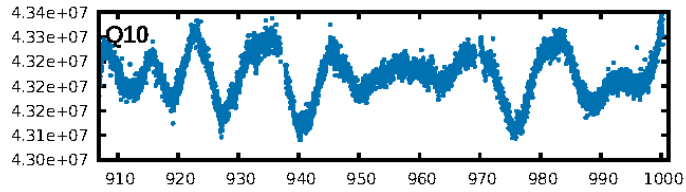
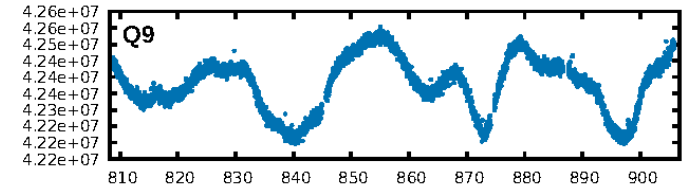
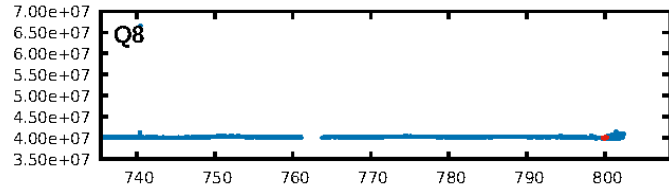
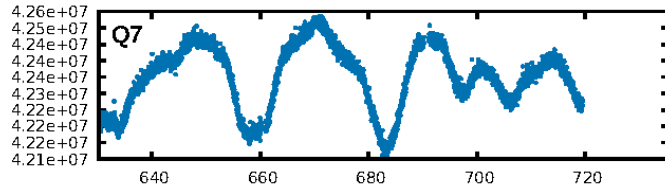
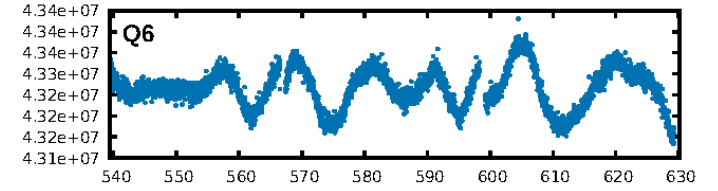
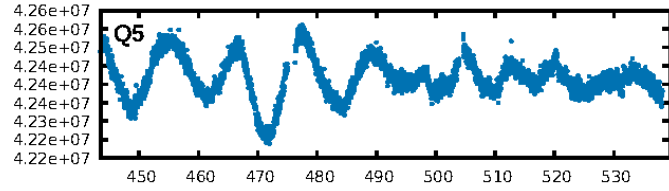
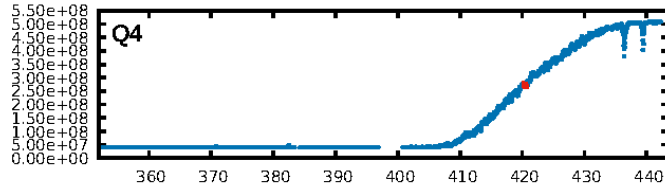
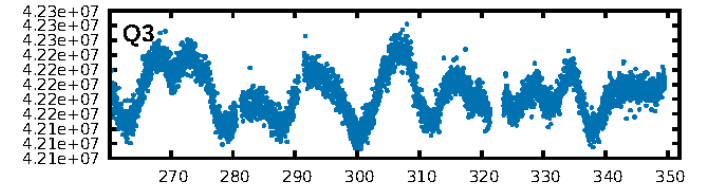
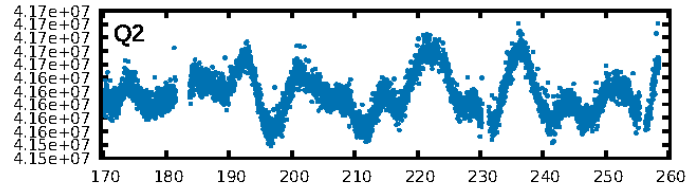
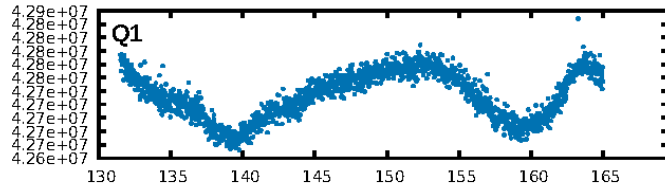
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [32.78σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 42.2%
ModelChiSquareGof-sig: 1.7%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 2.937
Centroid-sig: 1.6%
Centroid-so: 6.760 arcsec [3.83σ]
OotOffset-rm: 2.375 arcsec [30.30σ]
KicOffset-rm: 5.801 arcsec [3.34σ]
OotOffset-st: 0/0/2/0 [2]
KicOffset-st: 0/0/2/0 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [3/3]

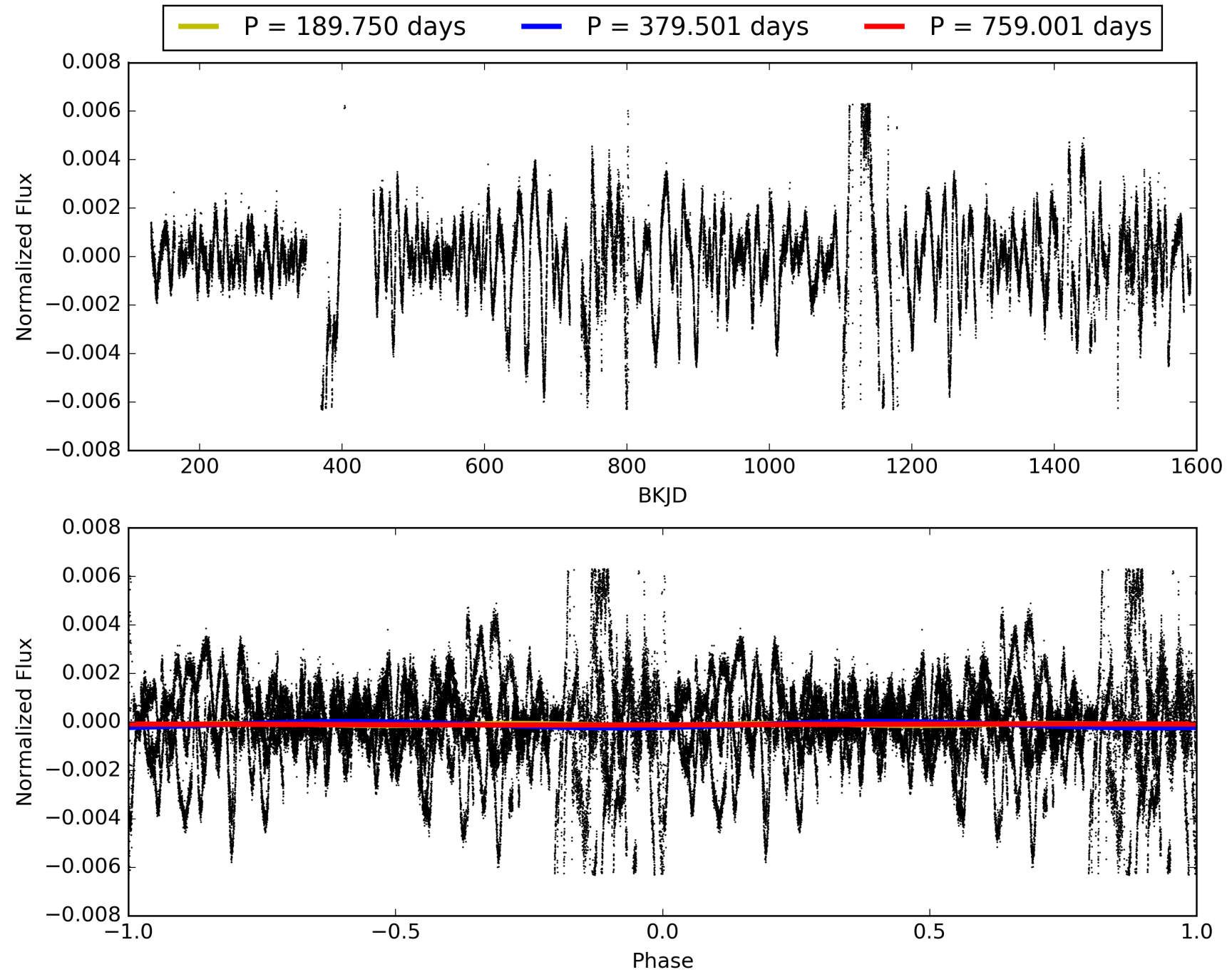
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:29:07 Z

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

TCE 007679979-04, PDC Light Curves

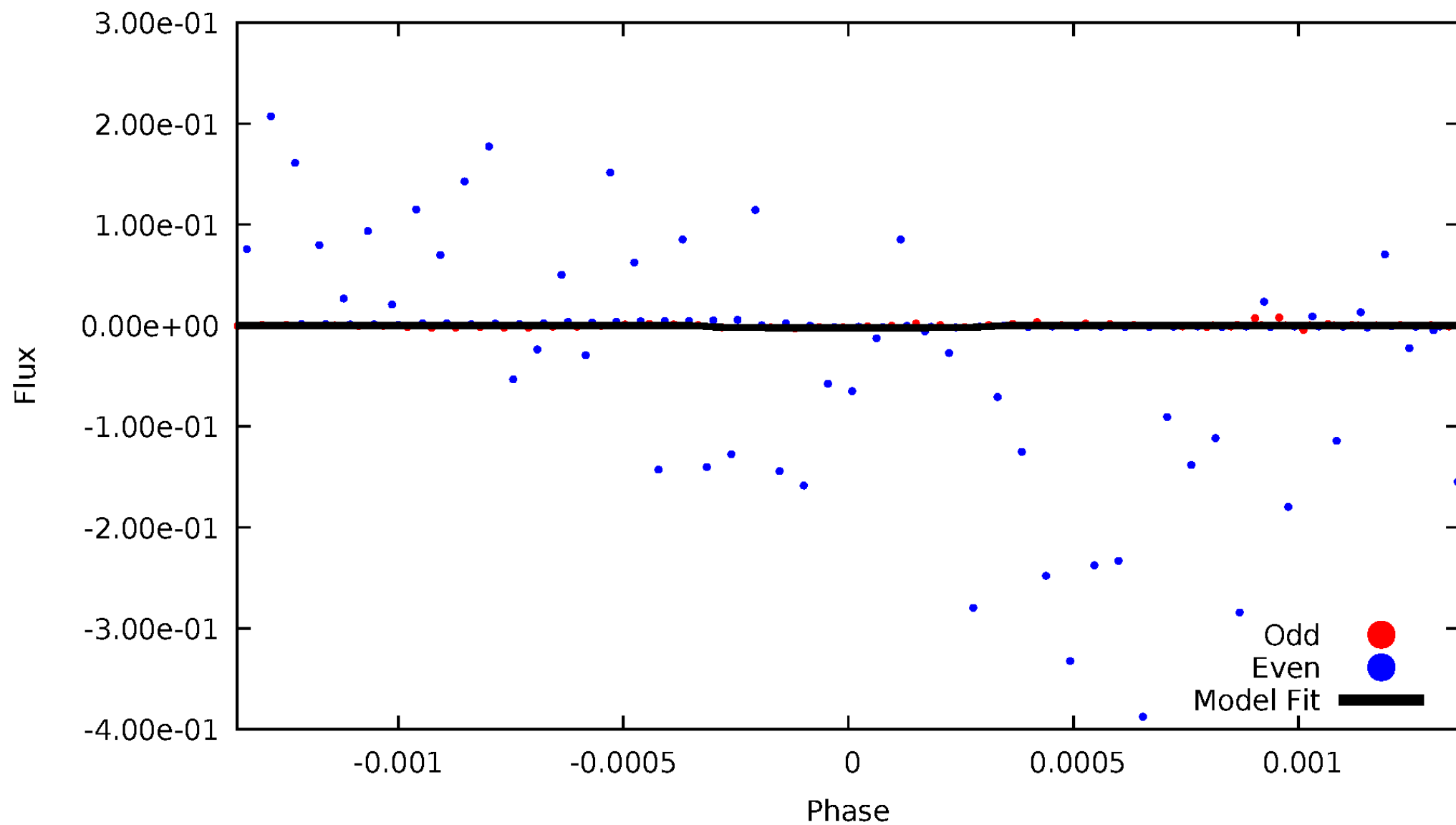


TCE 007679979-04



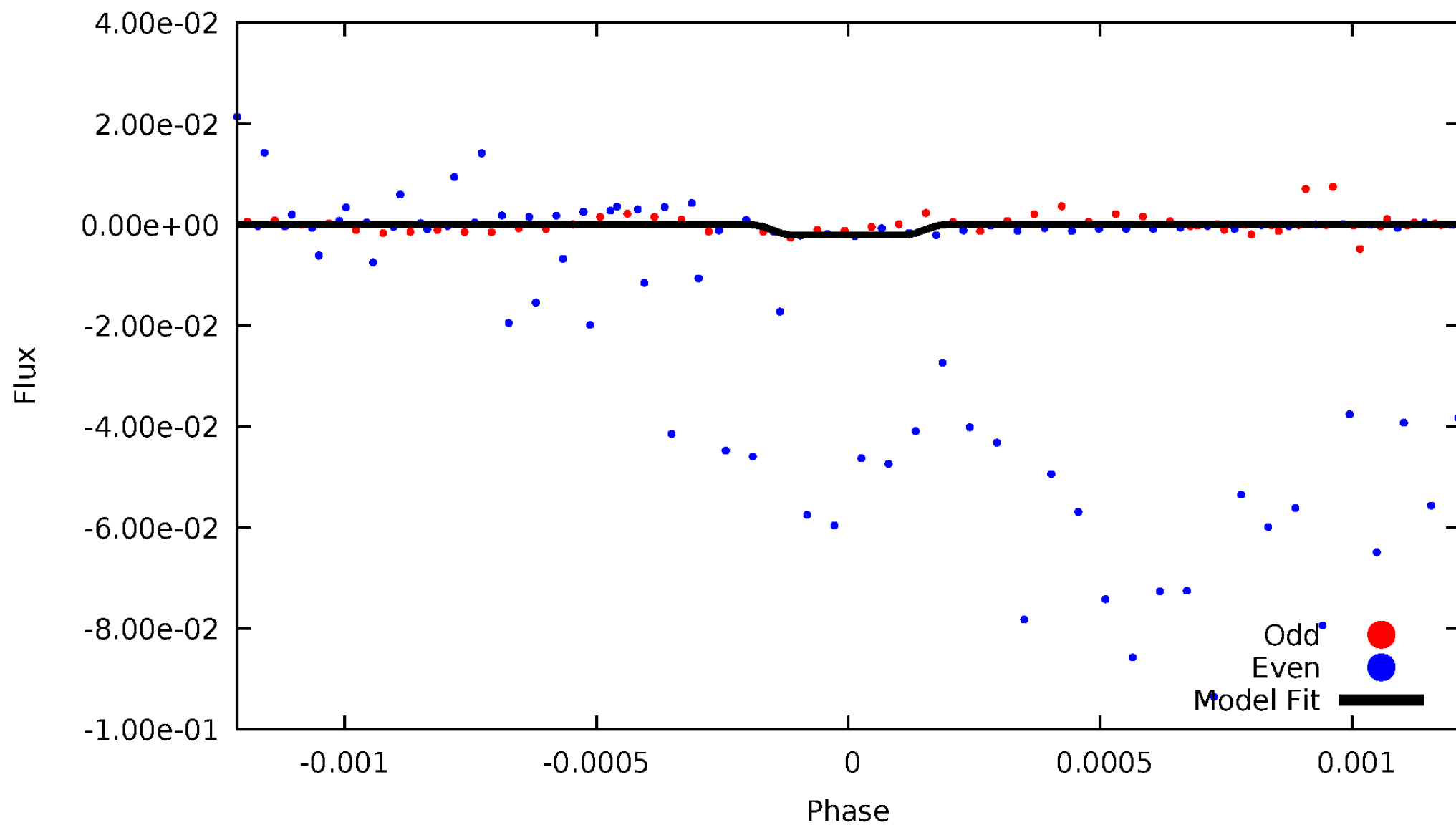
DV Odd/Even

TCE 007679979-04



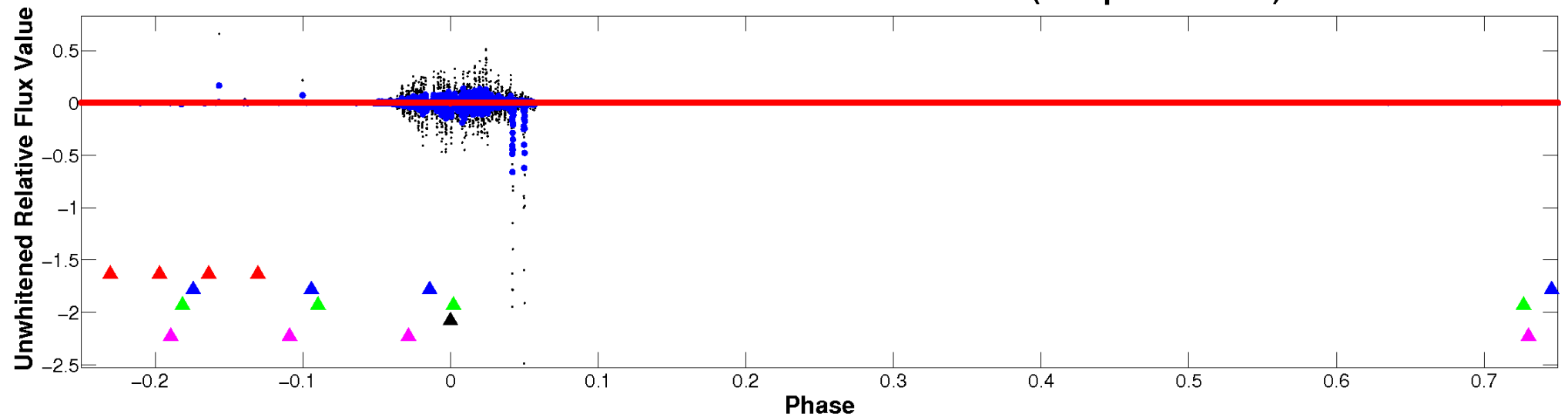
ALT Odd/Even

TCE 007679979-04

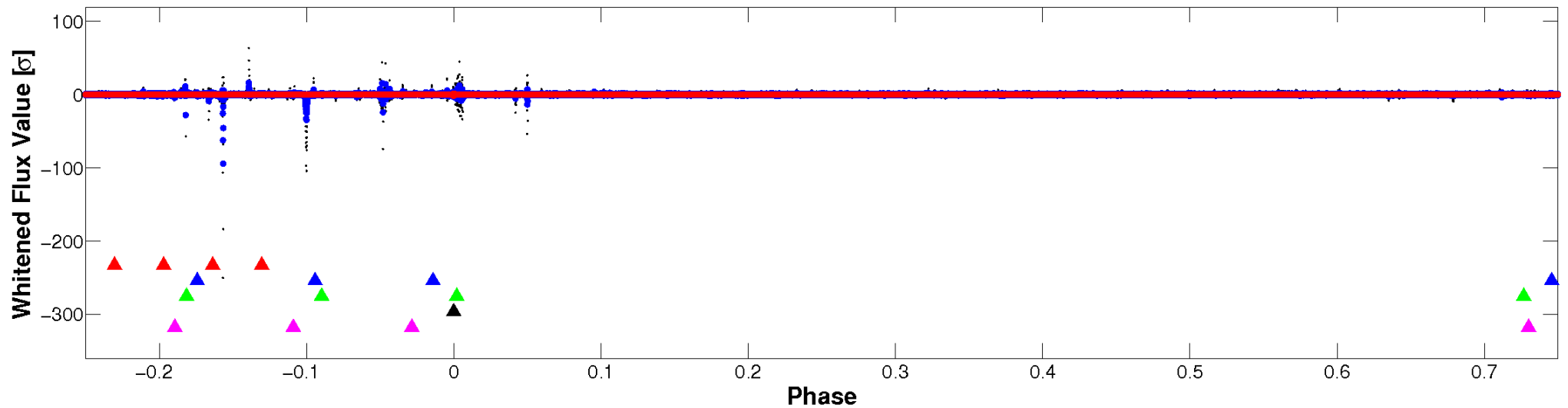


Non-Whitened Vs. Whitened Light Curve

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

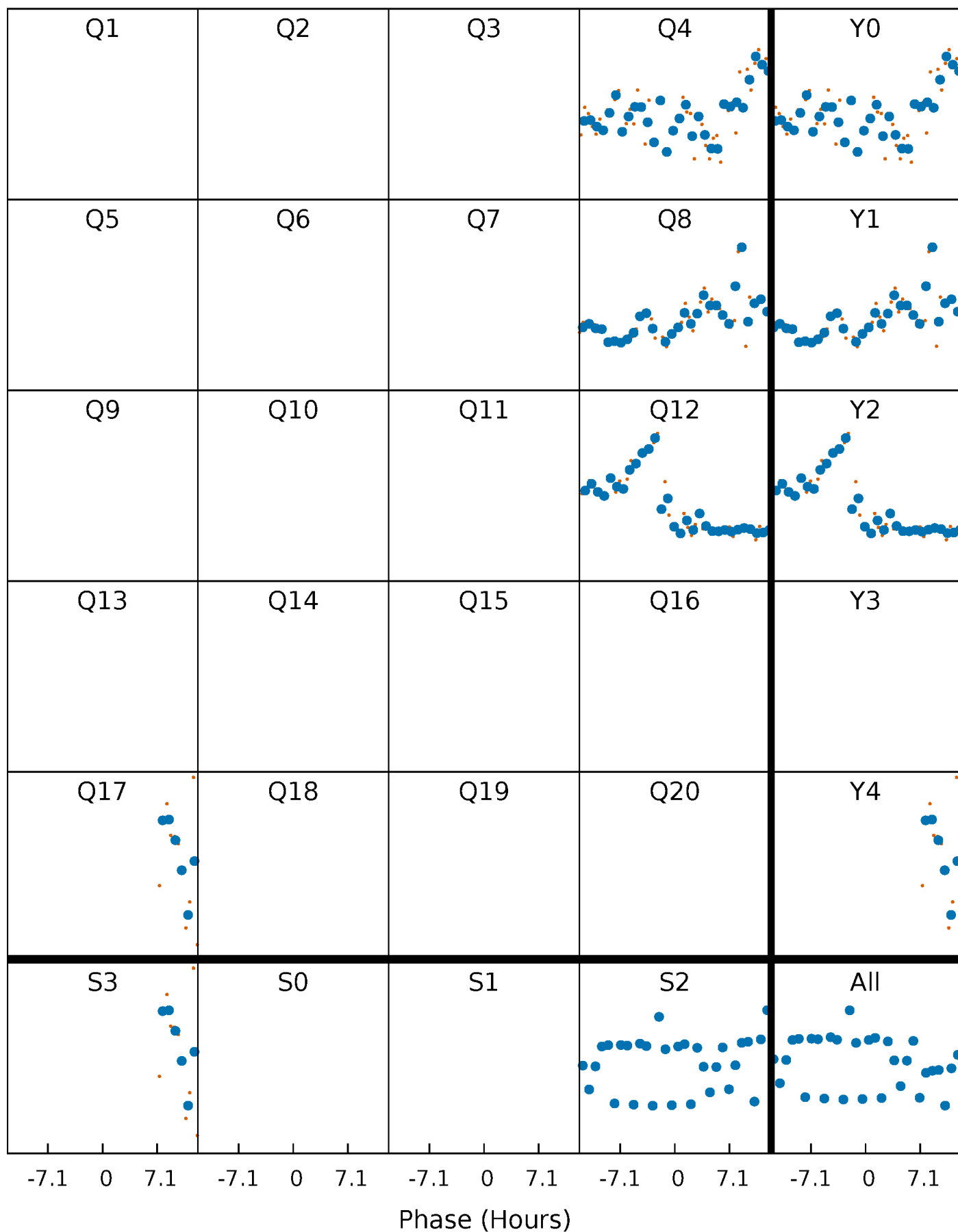


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



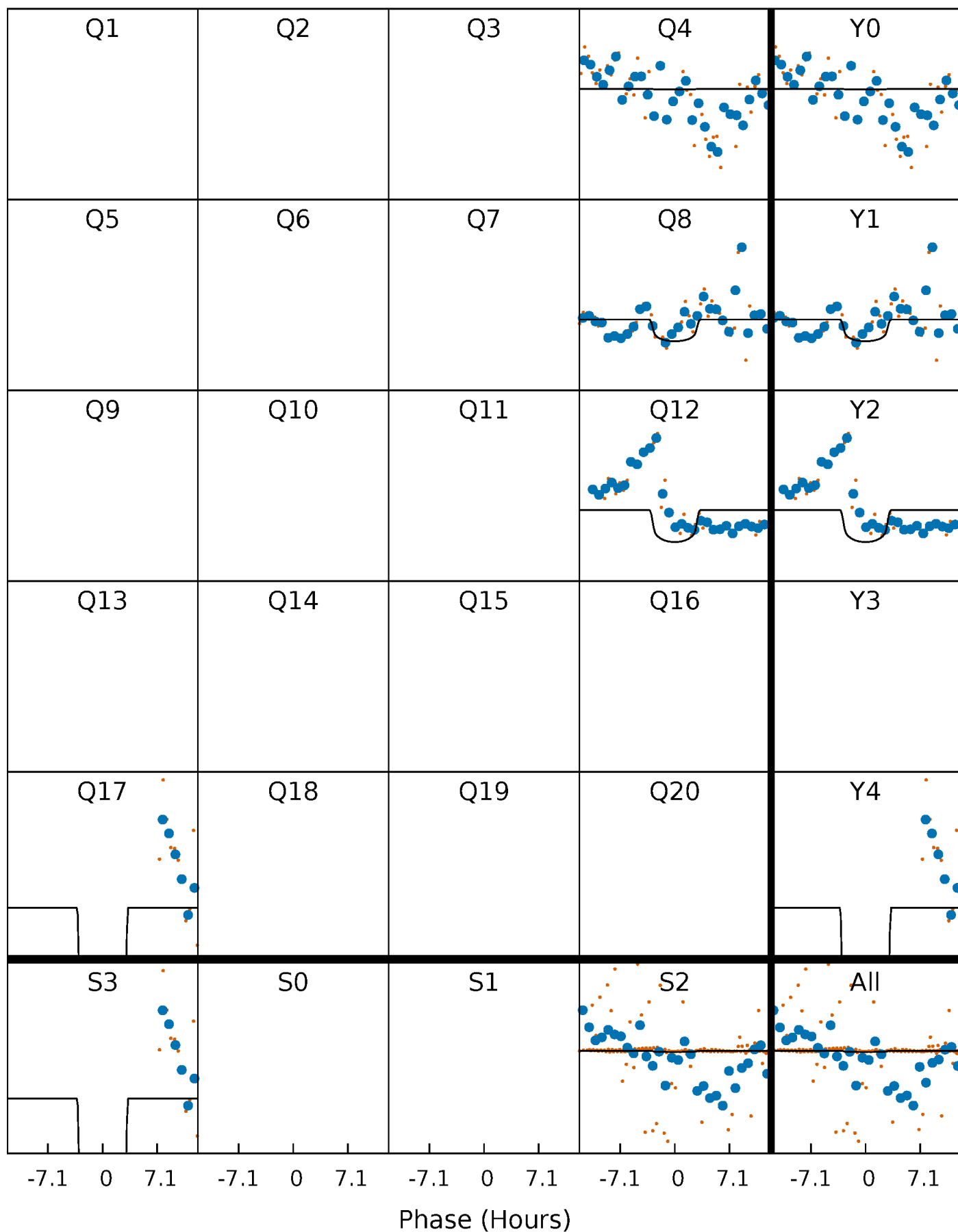
PDC Quarter-Phased Transit Curves

TCE 007679979-04 P=379.500500 Days $T_0=420.437274$ (BKJD)



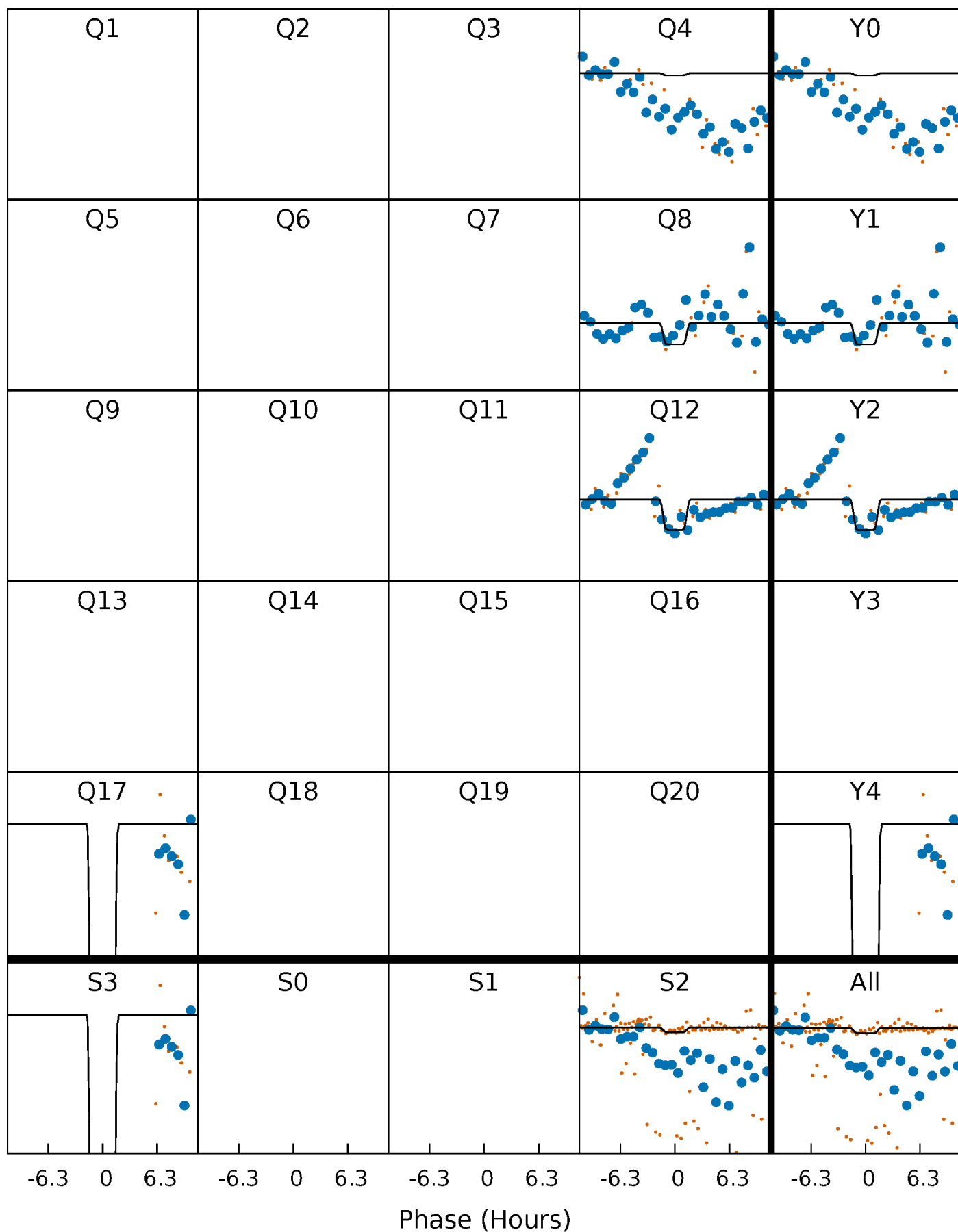
DV Quarter-Phased Transit Curves

TCE 007679979-04 P=379.500500 Days $T_0=420.437274$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

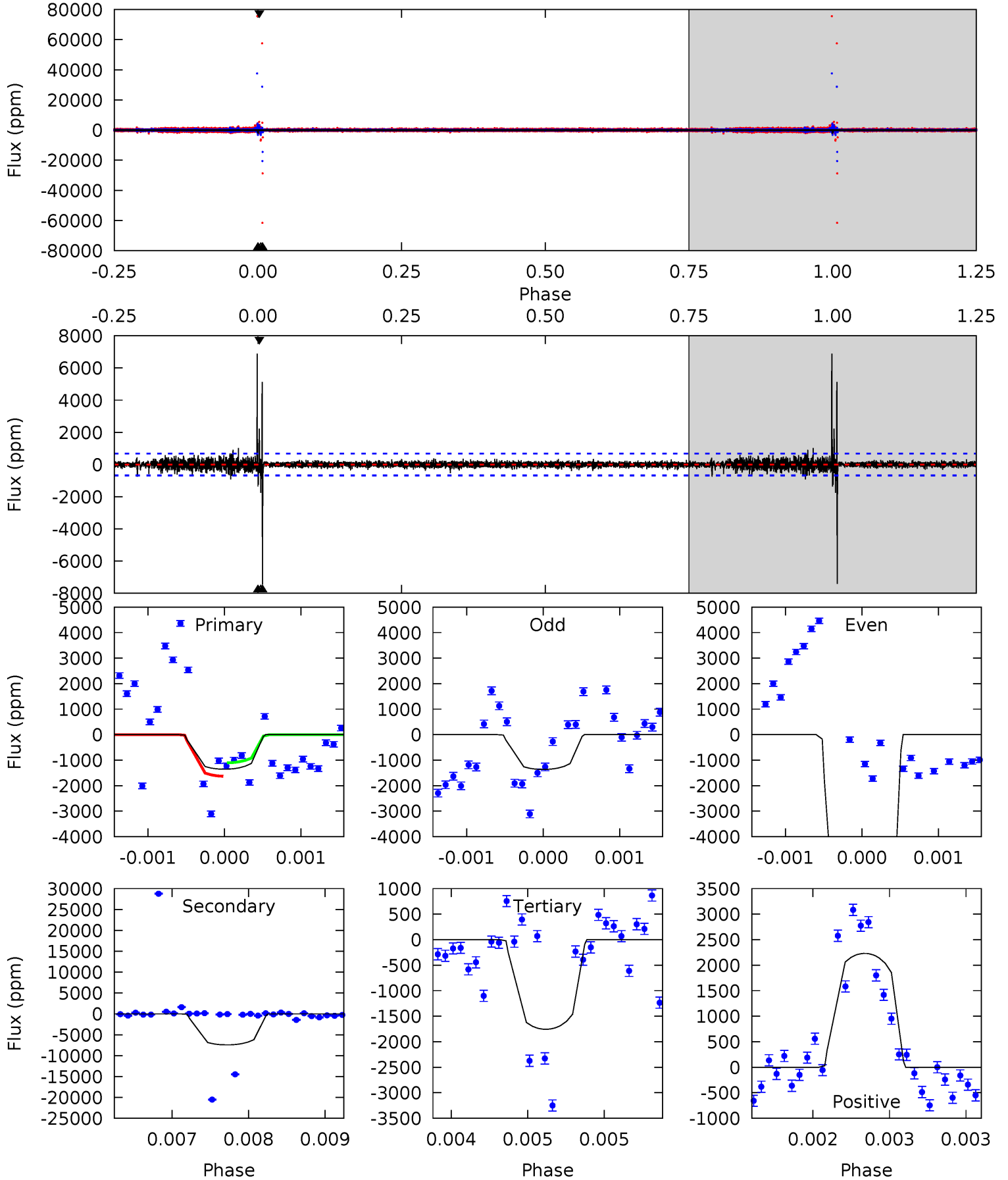
TCE 007679979-04 $P=379.526132$ Days $T_0=420.410288$ (BKJD)



DV Model-Shift Uniqueness Test

007679979-04, P = 379.500500 Days, E = 40.936774 Days

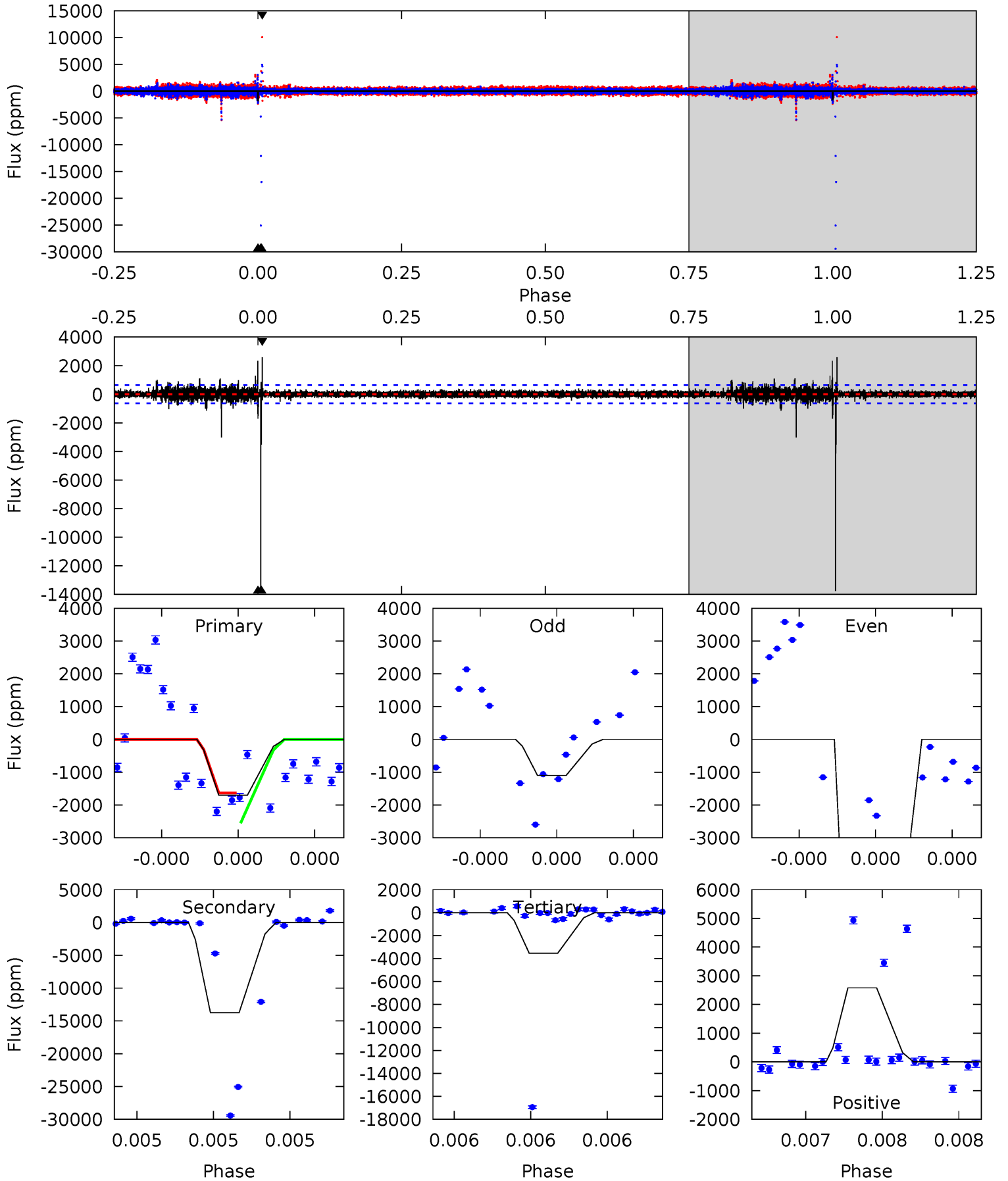
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.9	59.8	14.1	18.0	5.52	3.40	1.33	-3.22	-7.05	45.7	41.9	2.58	22.1	0.48	2.06



Alt Model-Shift Uniqueness Test

007679979-04, P = 379.526132 Days, E = 40.884156 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.0	121.3	31.1	22.8	5.62	3.56	1.29	-16.1	-7.77	90.3	98.6	2.26	9.29	0.16	3.93



Stellar Parameters For KIC 007679979

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5692^{+141}_{-155}	$4.553^{+0.042}_{-0.168}$	$-0.100^{+0.300}_{-0.300}$	$0.851^{+0.207}_{-0.069}$	$0.944^{+0.094}_{-0.115}$	$2.157^{+0.372}_{-1.021}$
	+2%/-3%	+1%/-4%	+300%/-300%	+24%/-8%	+10%/-12%	+17%/-47%
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 007679979-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-7415 ± 124	$4.71^{+2.98}_{-2.50}$	328^{+19}_{-13}	7631^{+5916}_{-1684}	$182089^{+676764}_{-110682}$
Alt.	-13749 ± 113	$4.86^{+2.89}_{-2.84}$	328^{+20}_{-13}	9265^{+10989}_{-2326}	$329979^{+1573446}_{-202005}$

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 $A_{obs} \gg 1.0$

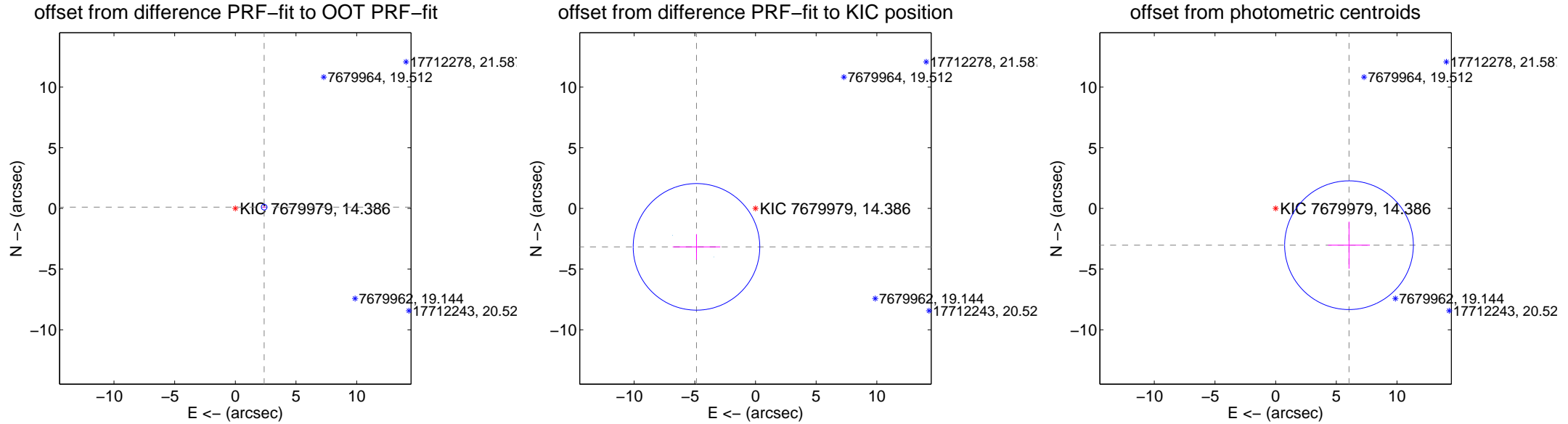
DV Centroid Data

Supplemental centroid analysis for 007679979-04. Kepler magnitude: 14.39. Transit SNR 11.00

There are 2 quarters with good PRF difference image offsets

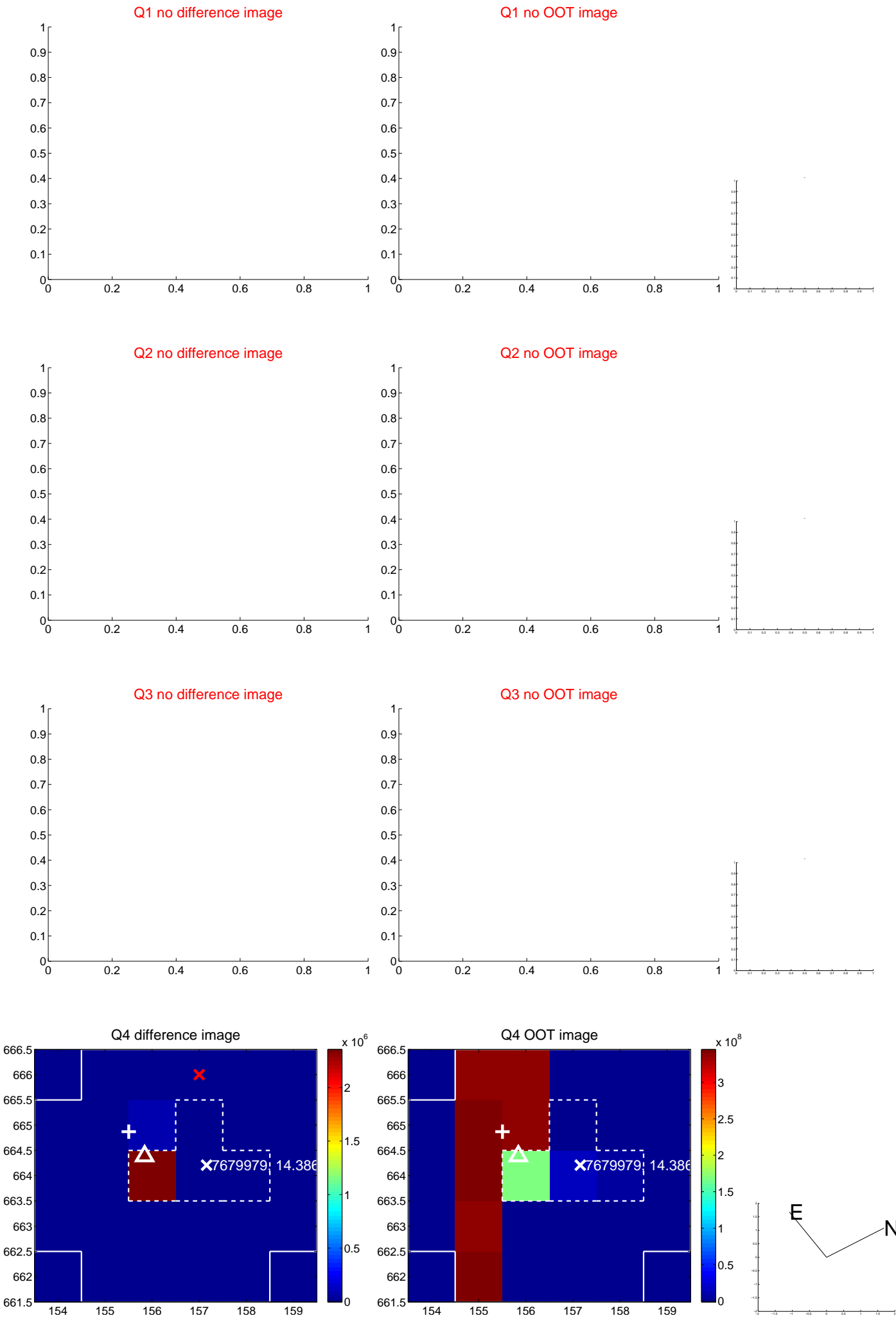
The OOT PRF centroid is offset from the target star catalog position by about 9.54 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.375 ± 0.078	30.30	-2.372 ± 0.078	0.109 ± 0.073
PRF-fit source offset from KIC position	5.801 ± 1.738	3.34	4.862 ± 1.960	-3.165 ± 1.042
photometric centroid source offset	6.76 ± 1.77	3.83	-6.04 ± 1.72	-3.03 ± 1.94

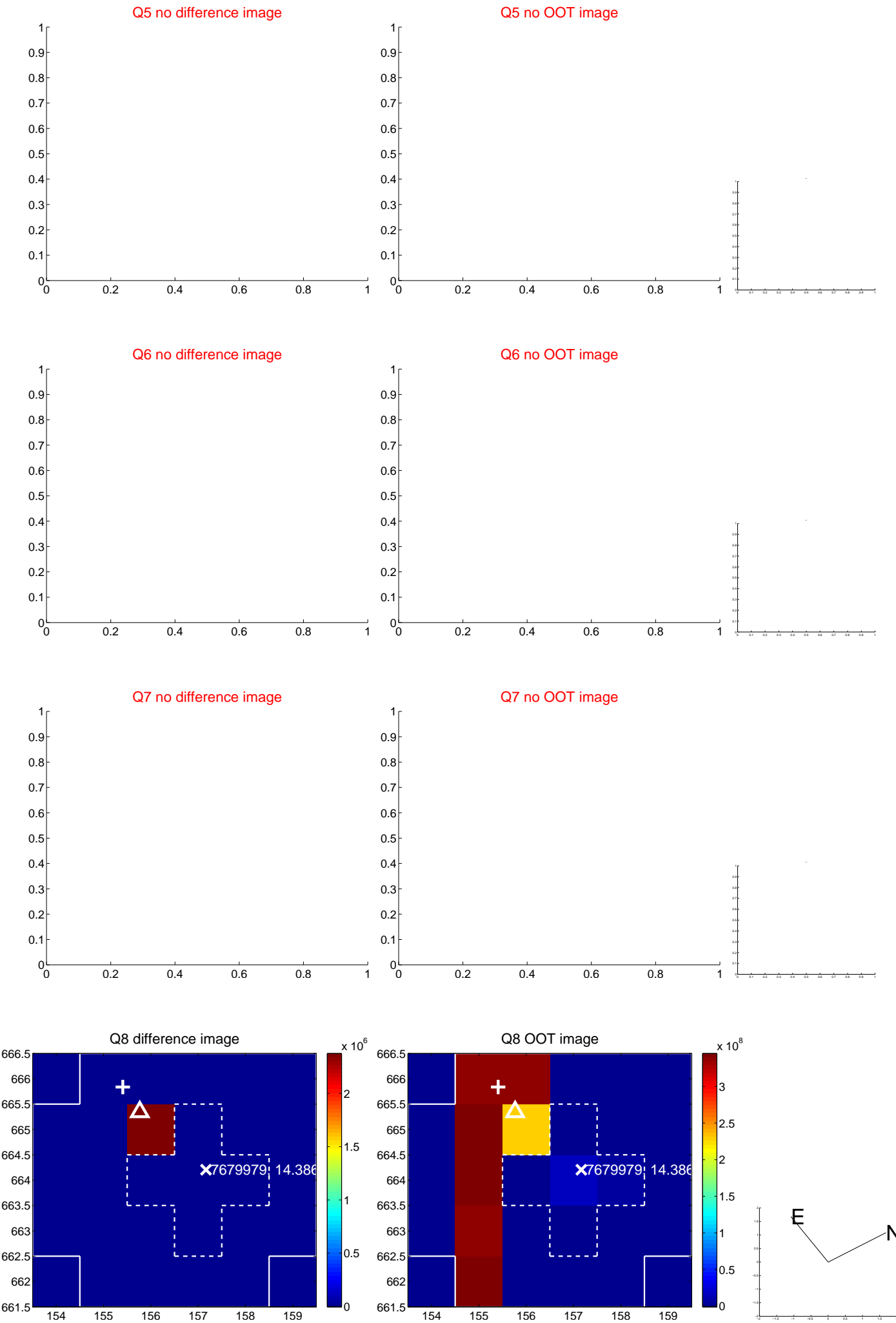


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

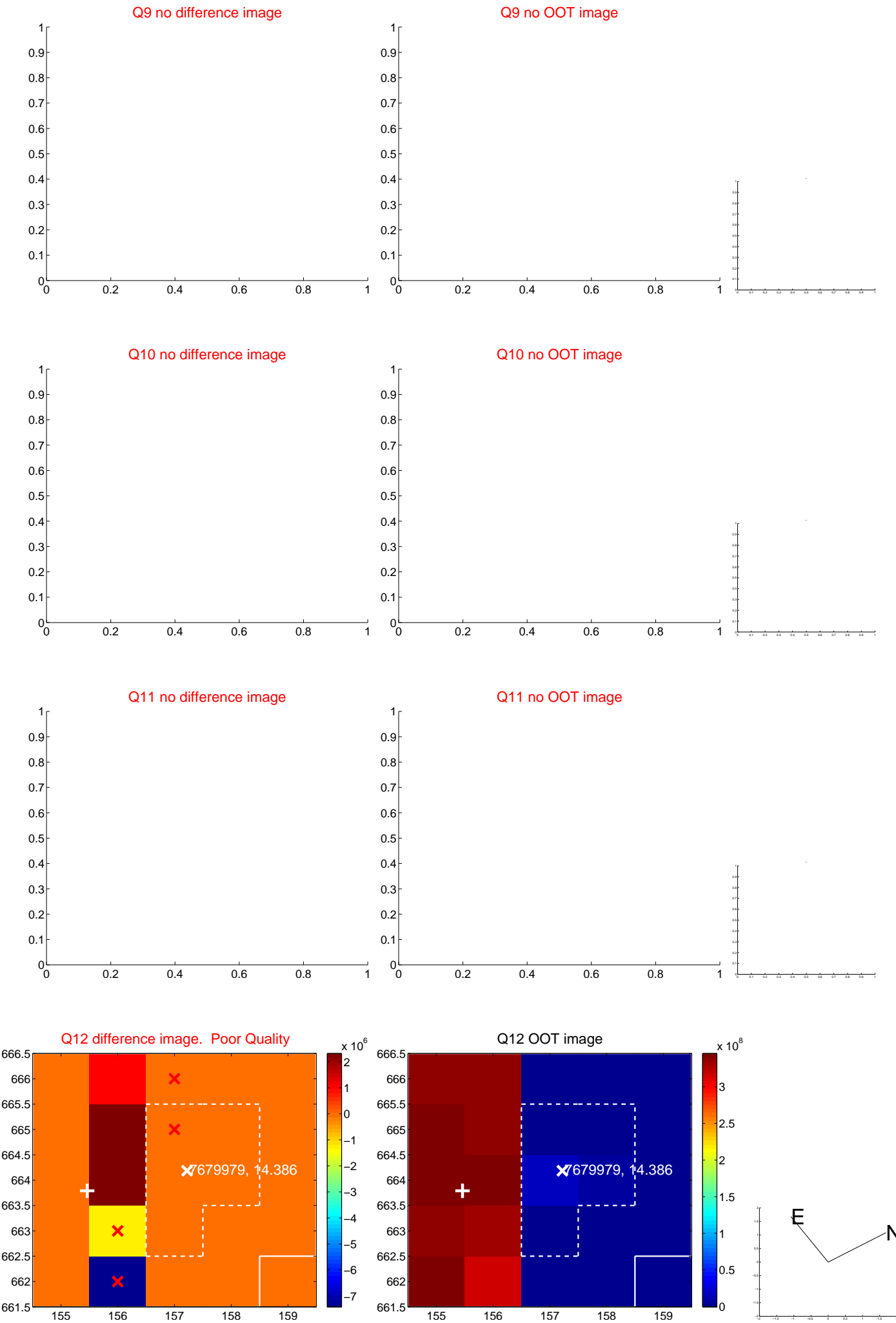
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



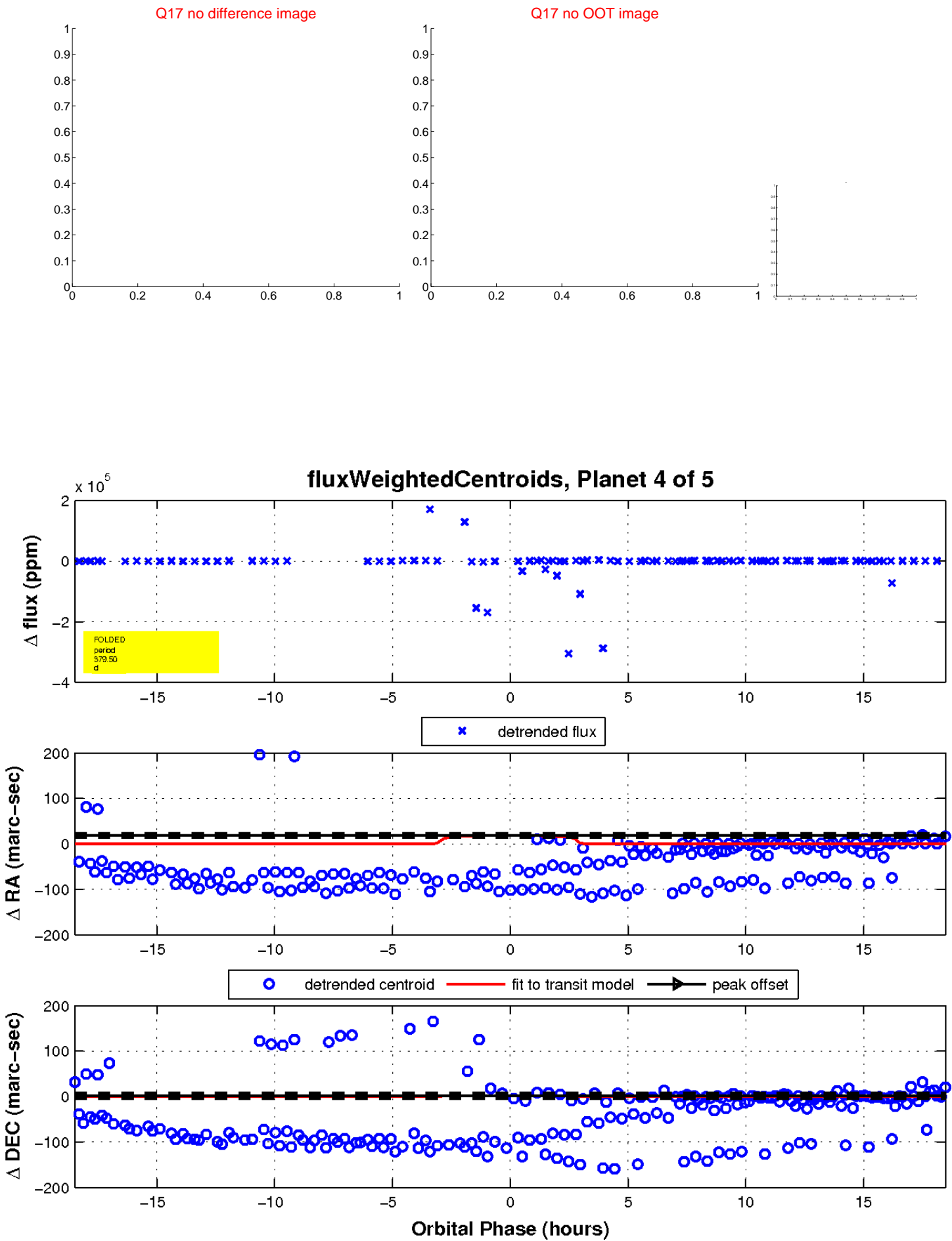
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

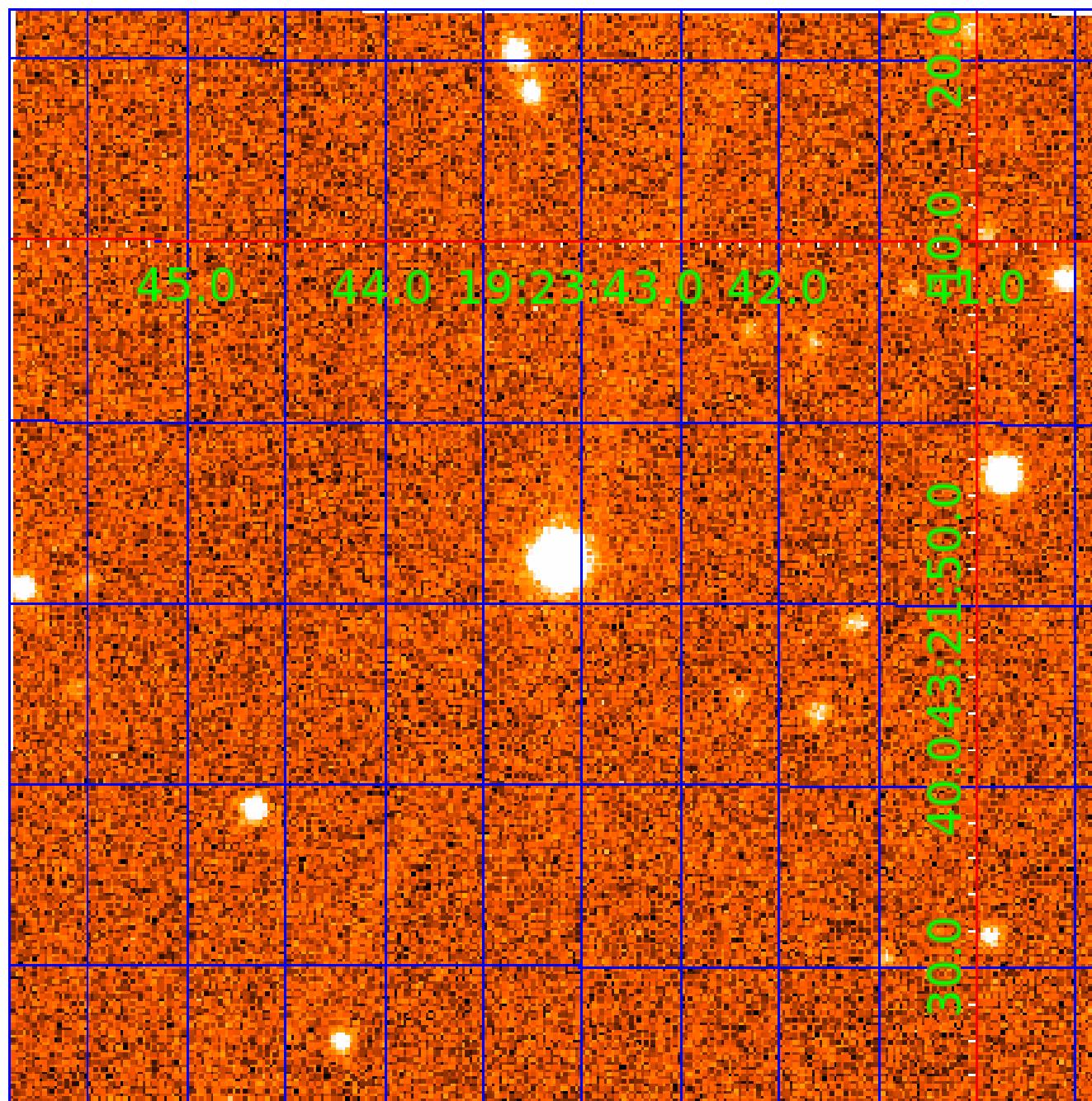


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007679979

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})
007679979-01	OBS	No	366.851368	370.953729	4720.4	6.891	45.9	30.0	0.85	5692	7.13	0.70
007679979-02	OBS	No	349.120804	415.085384	3043.8	8.565	24.8	23.1	0.85	5692	5.31	0.75
007679979-03	OBS	No	344.672132	421.223012	3814.8	2.993	35.4	19.7	0.85	5692	5.26	0.76
007679979-04	OBS	No	379.500500	420.437274	2362.5	6.186	16.0	11.0	0.85	5692	4.19	0.67
007679979-05	OBS	No	348.950715	409.649207	661.8	12.000	13.0	-1.0	0.85	5692	2.17	0.75

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007679979-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_TER_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007679979-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS

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

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

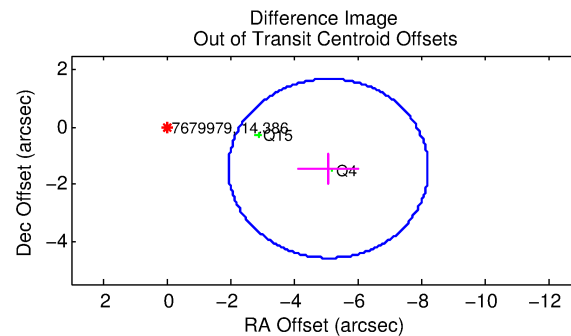
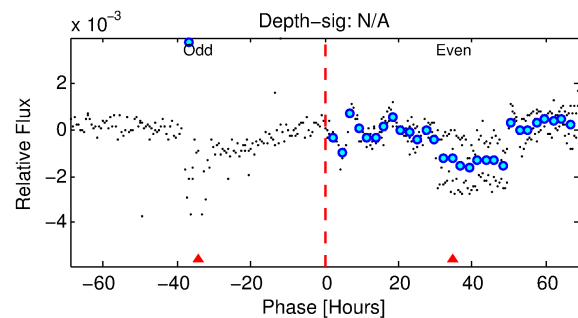
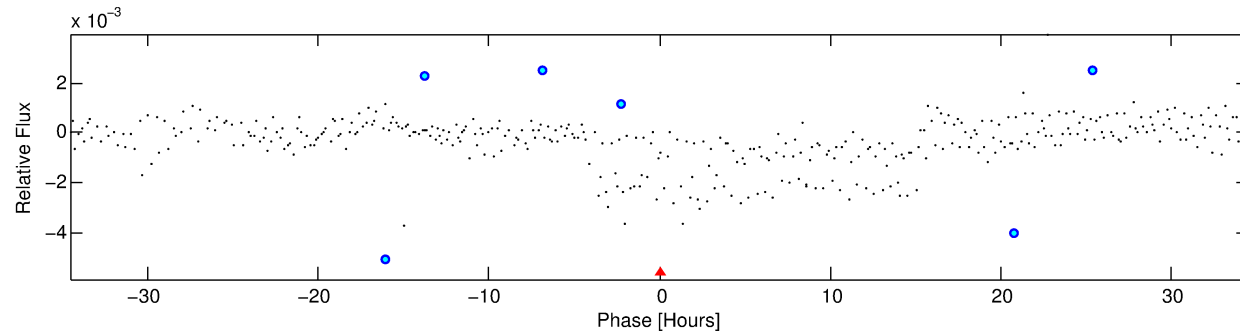
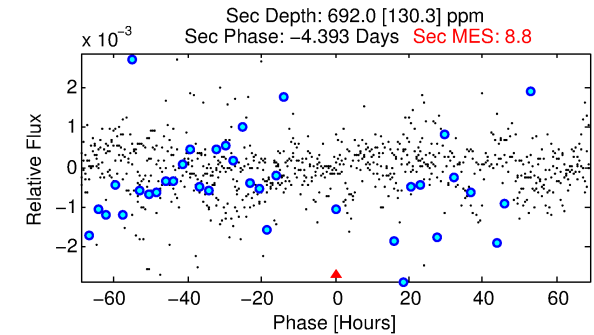
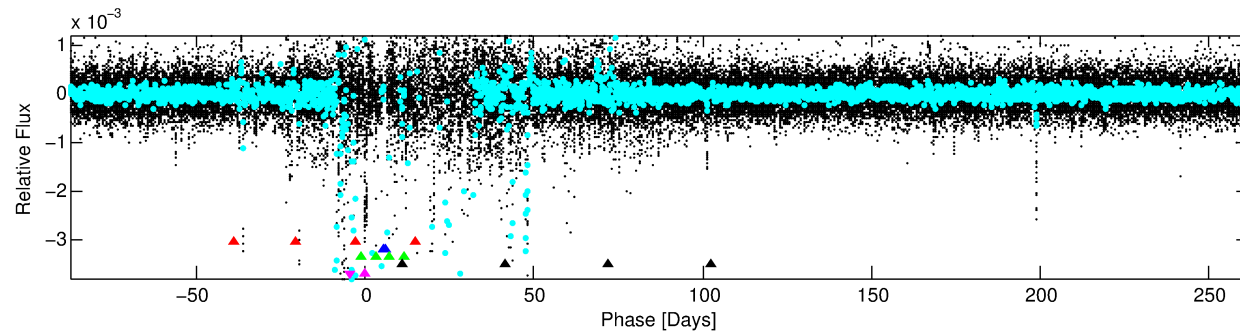
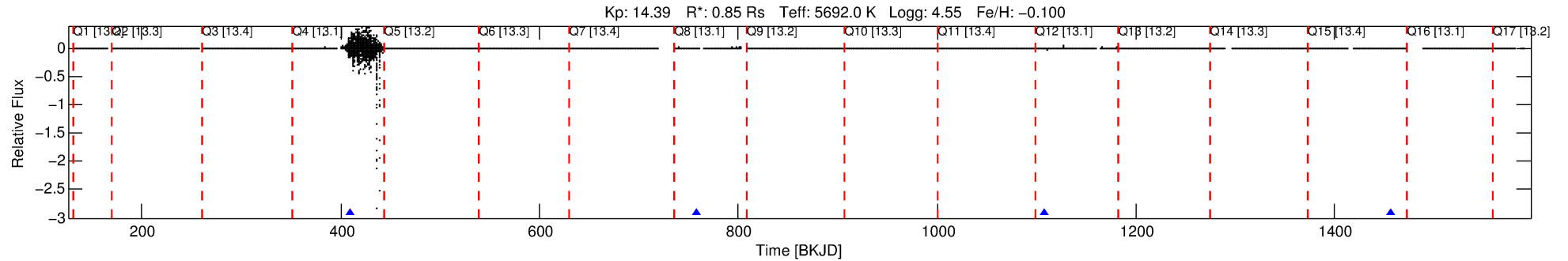
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007679979-05

No Significant Match Found

DV One-Page Summary

KIC: 7679979 Candidate: 5 of 5 Period: 348.951 d



TPS TCE Results:

Period = 348.95072 d
Epoch = 409.6492 BKJD

DV fit results are unavailable

DV Diagnostic Results:

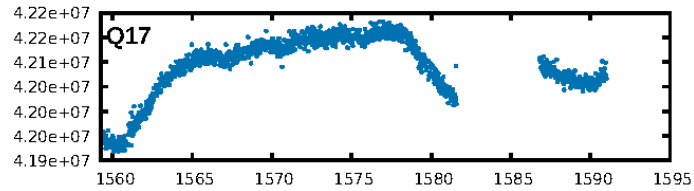
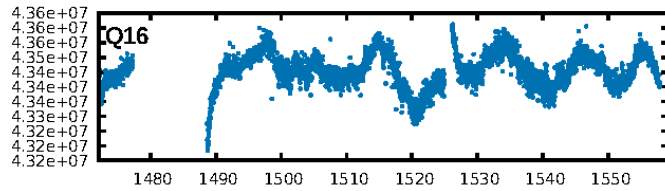
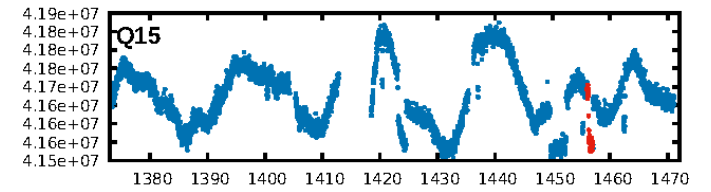
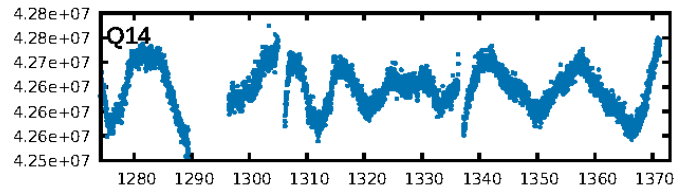
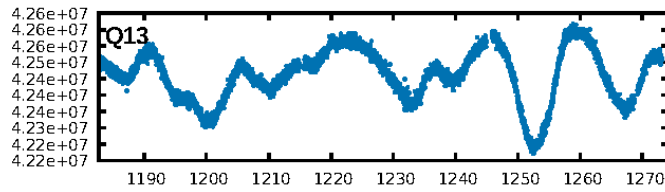
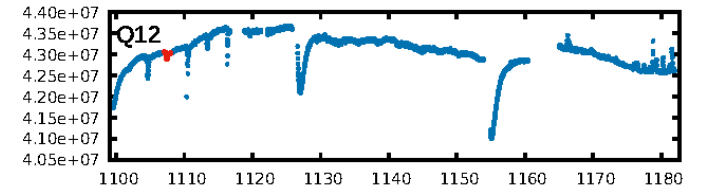
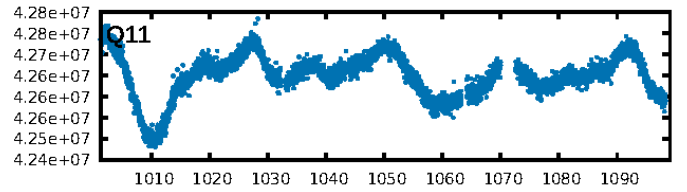
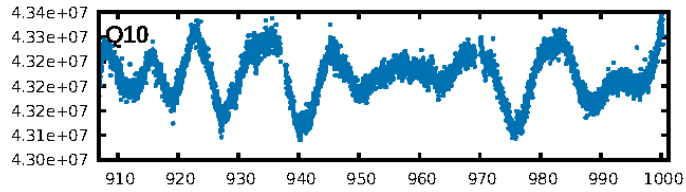
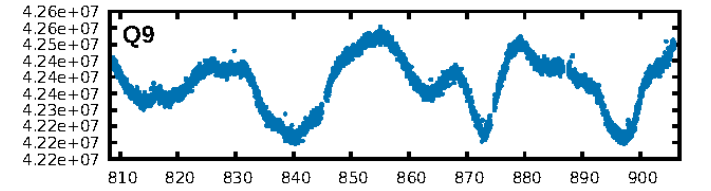
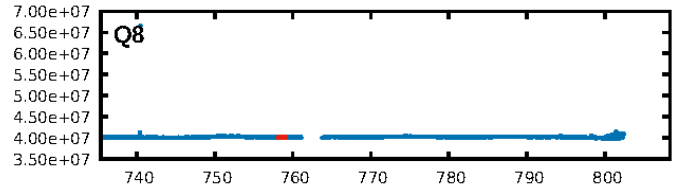
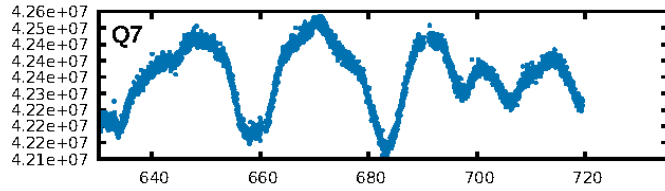
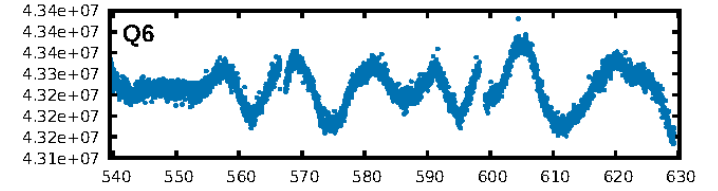
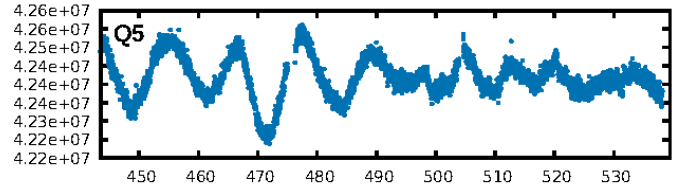
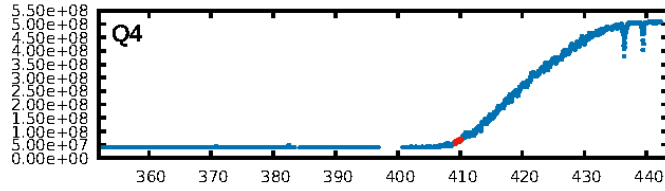
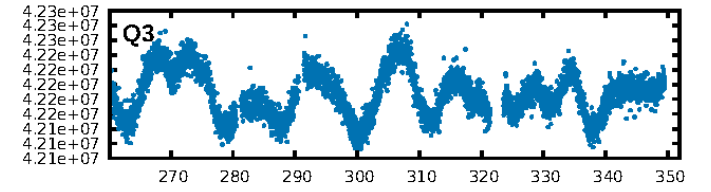
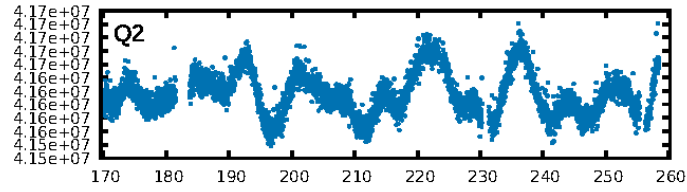
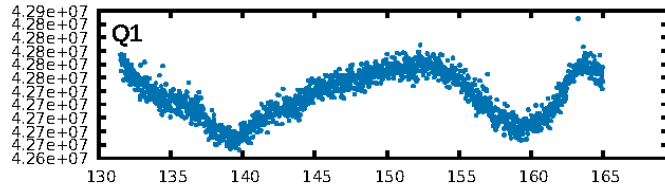
ShortPeriod-sig: 100.0% [8.30 σ]
LongPeriod-sig: 21.8% [0.28 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -108.2

Centroid-sig: 0.0%
Centroid-so: 6.613 arcsec [9.90 σ]
OotOffset-rm: 5.297 arcsec [5.06 σ]
KicOffset-rm: 4.973 arcsec [2.38 σ]
OotOffset-st: 0/1/1/0 [2]
KicOffset-st: 0/1/1/0 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [4/4]

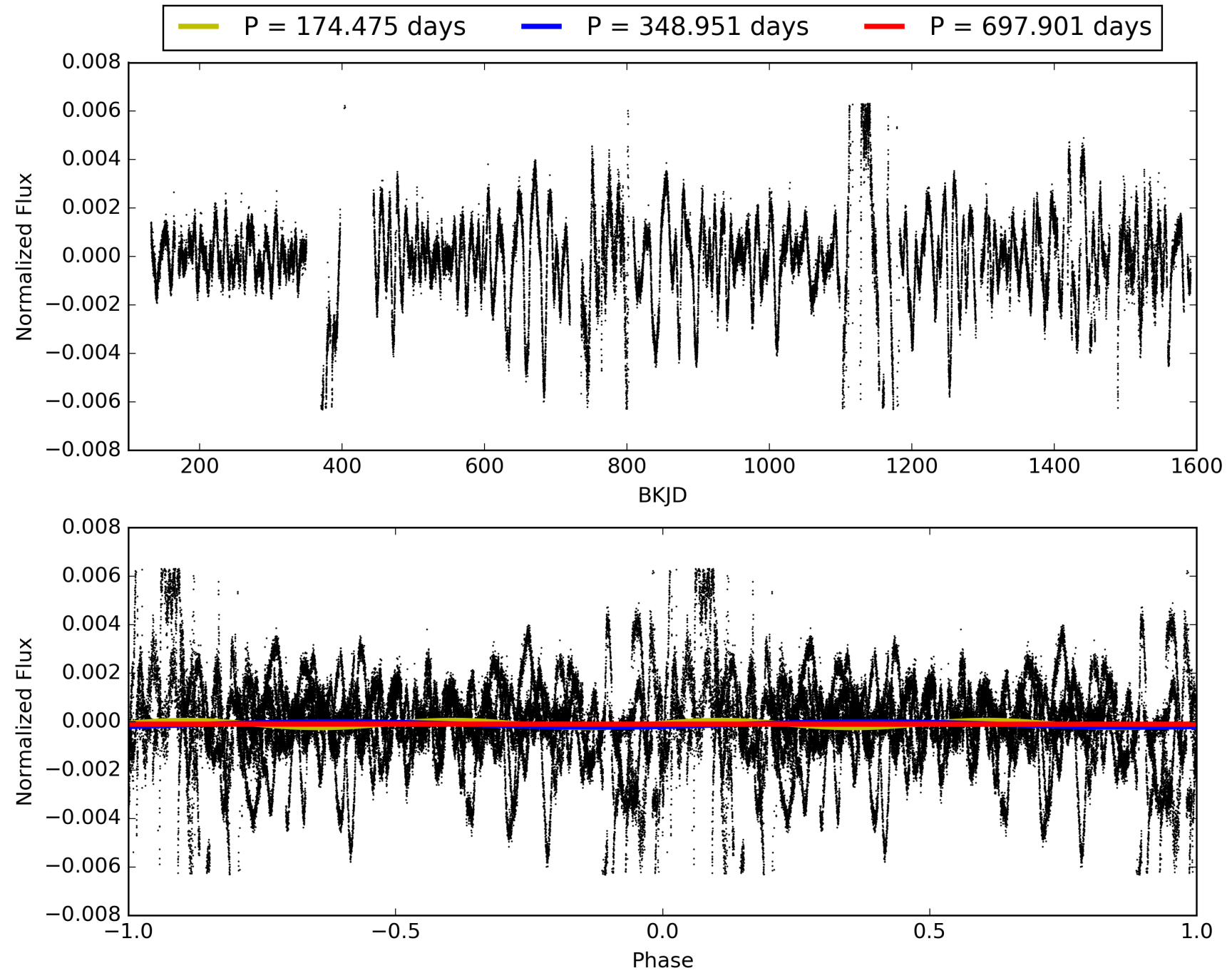
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:29:15 Z

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

TCE 007679979-05, PDC Light Curves

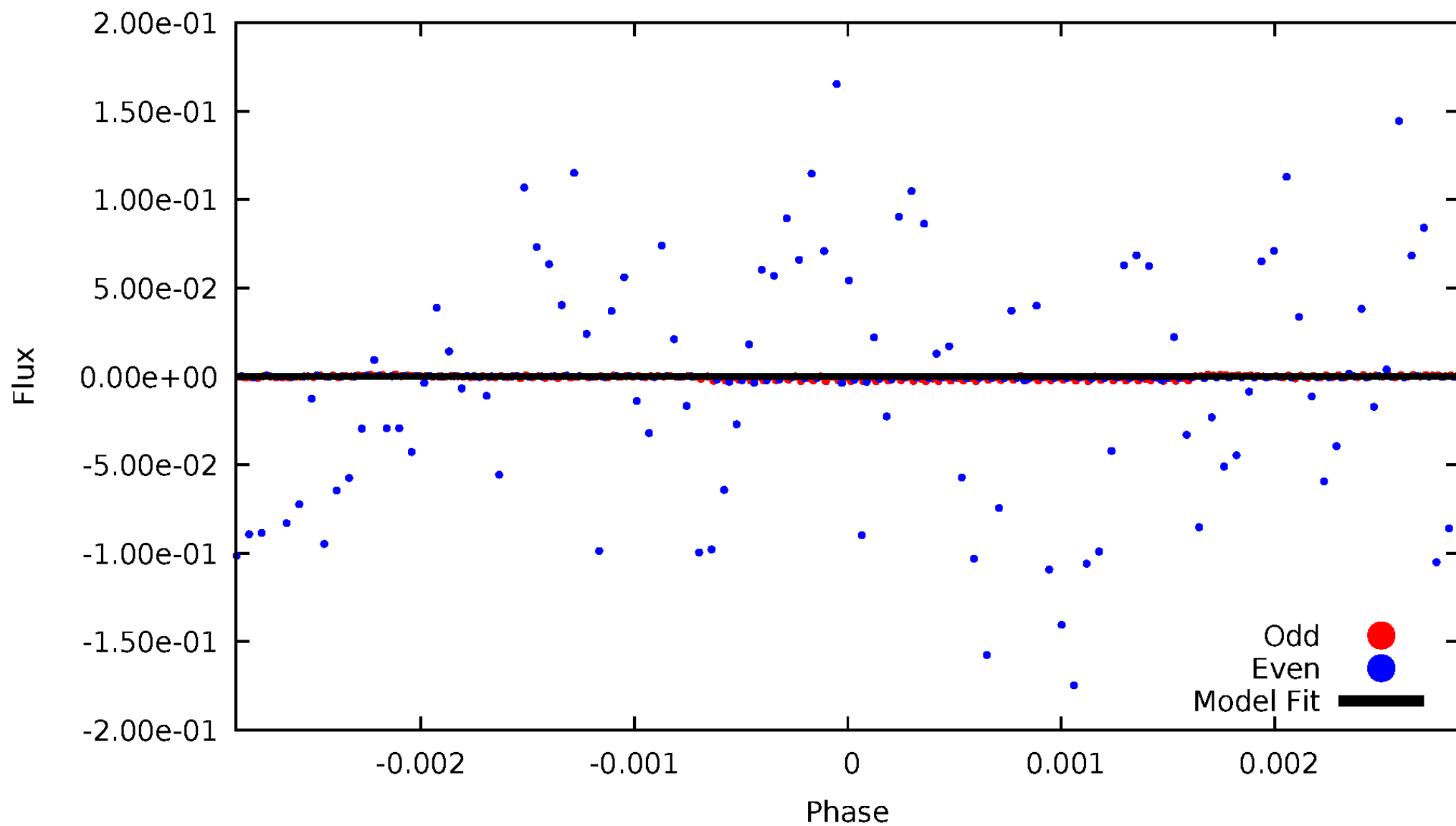


TCE 007679979-05



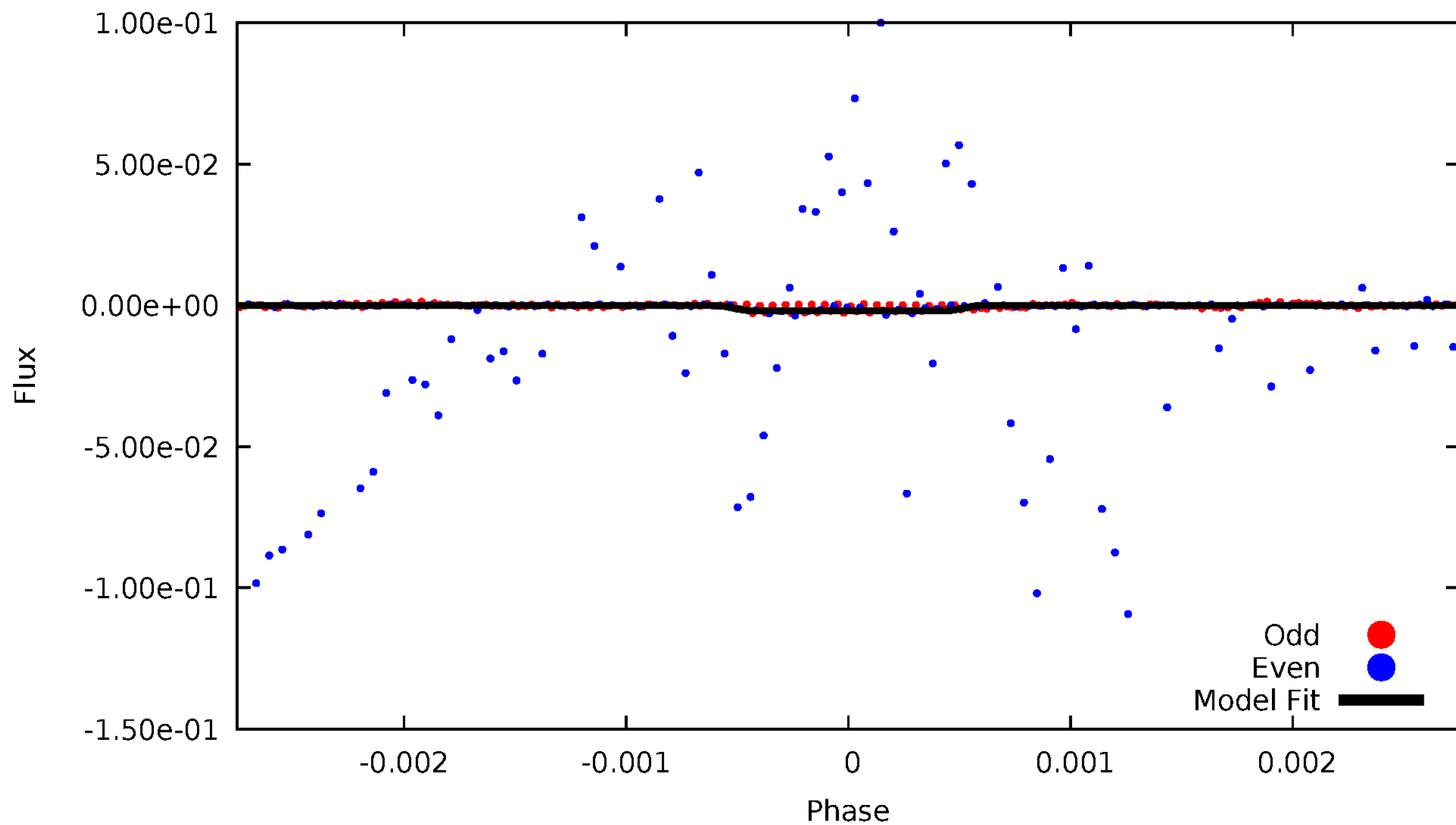
DV Odd/Even

TCE 007679979-05



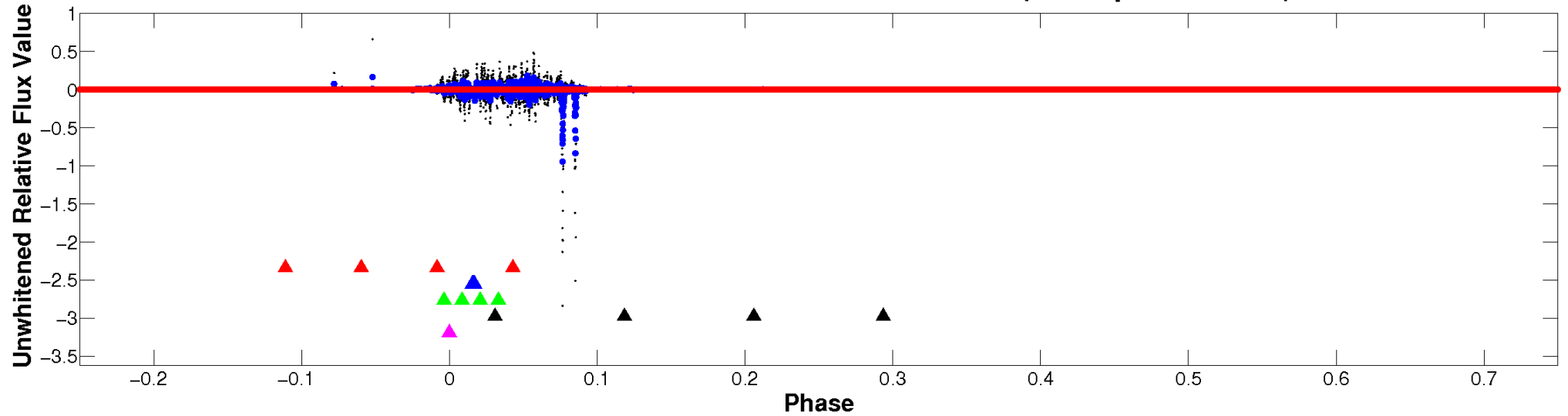
ALT Odd/Even

TCE 007679979-05



Non-Whitened Vs. Whitened Light Curve

Planet 5 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)



Planet 5 : Phased Whitened Flux Time Series (TPS Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 007679979-05 $P=348.950715$ Days $T_0=409.649207$ (BKJD)



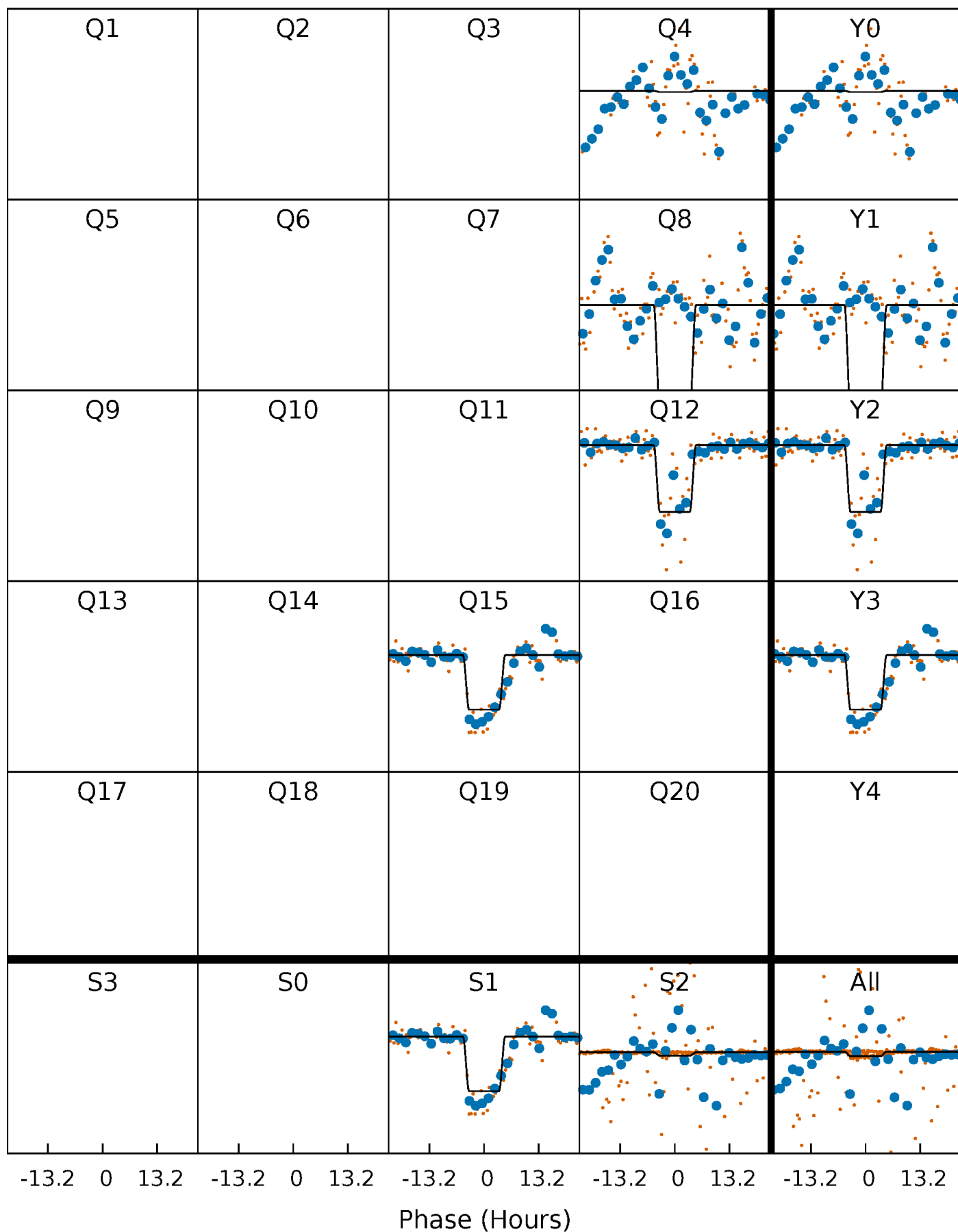
DV Quarter-Phased Transit Curves

TCE 007679979-05 $P=348.950715$ Days $T_0=409.649207$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

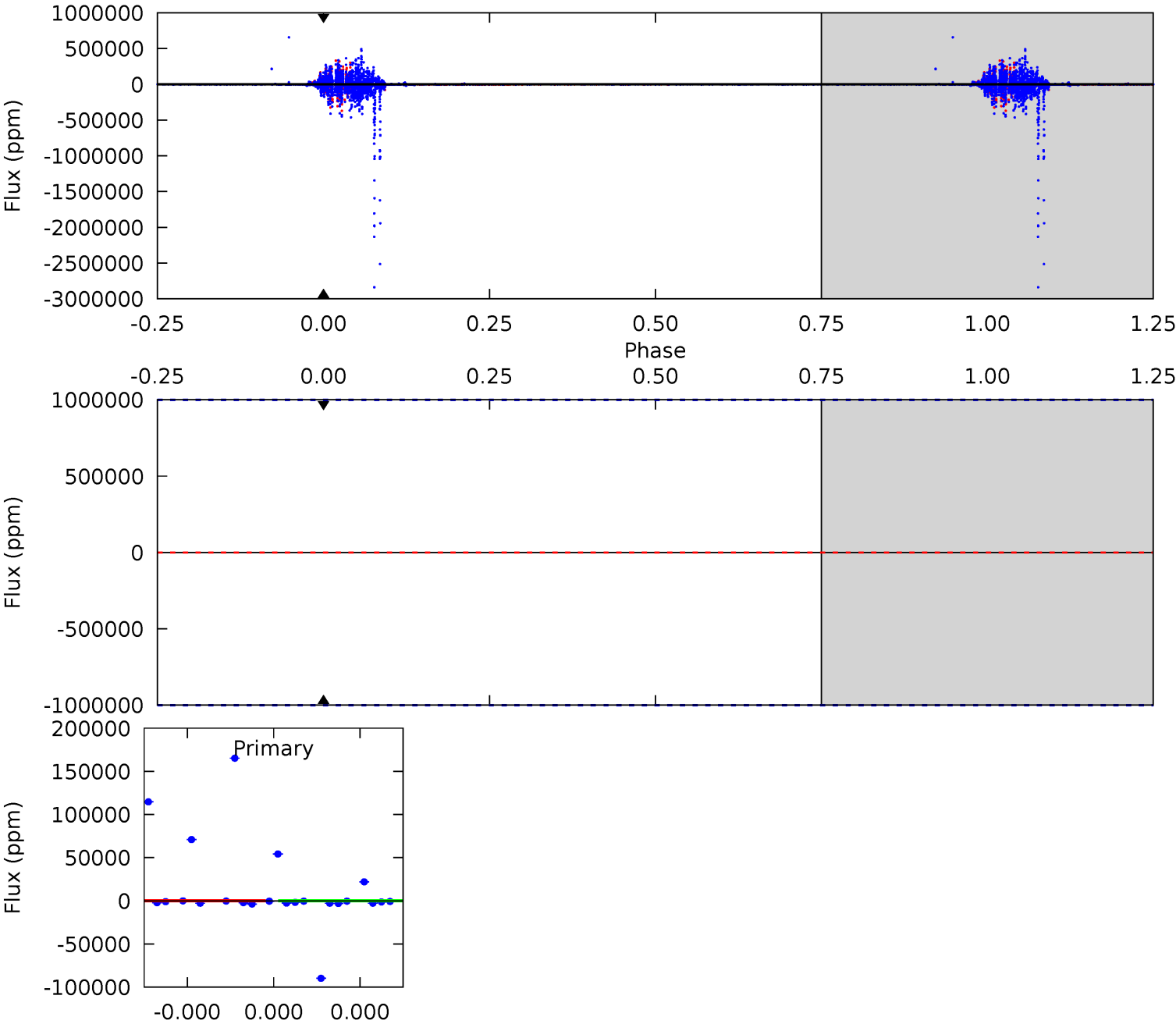
TCE 007679979-05 P=348.950715 Days $T_0=409.580067$ (BKJD)



DV Model-Shift Uniqueness Test

007679979-05, P = 348.950715 Days, E = 60.698492 Days

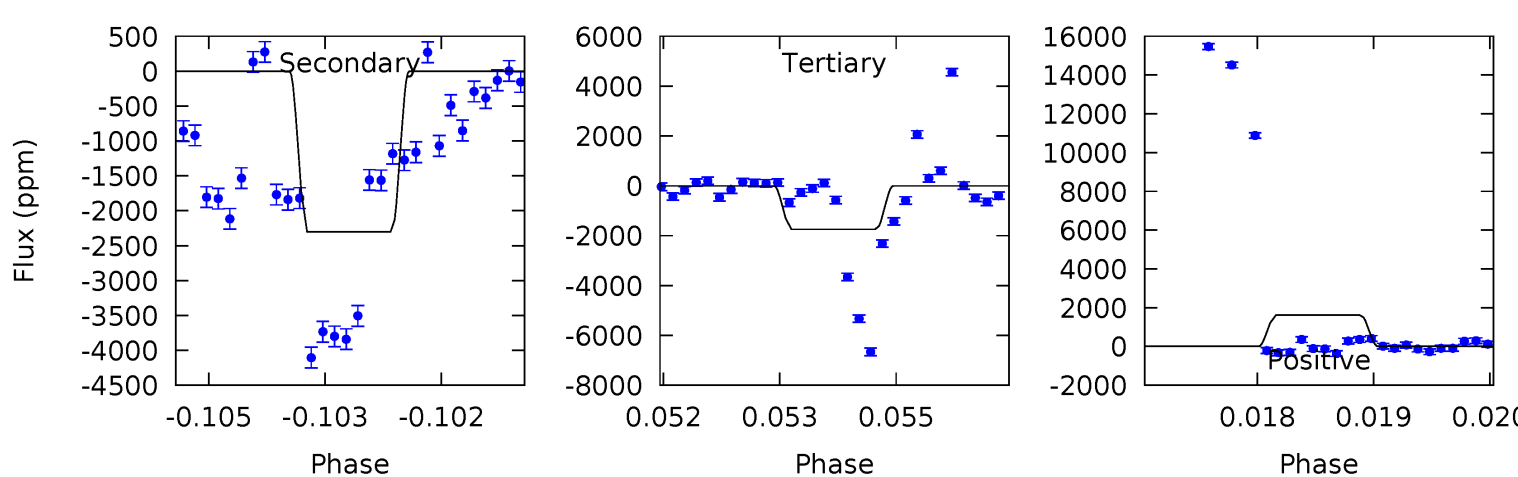
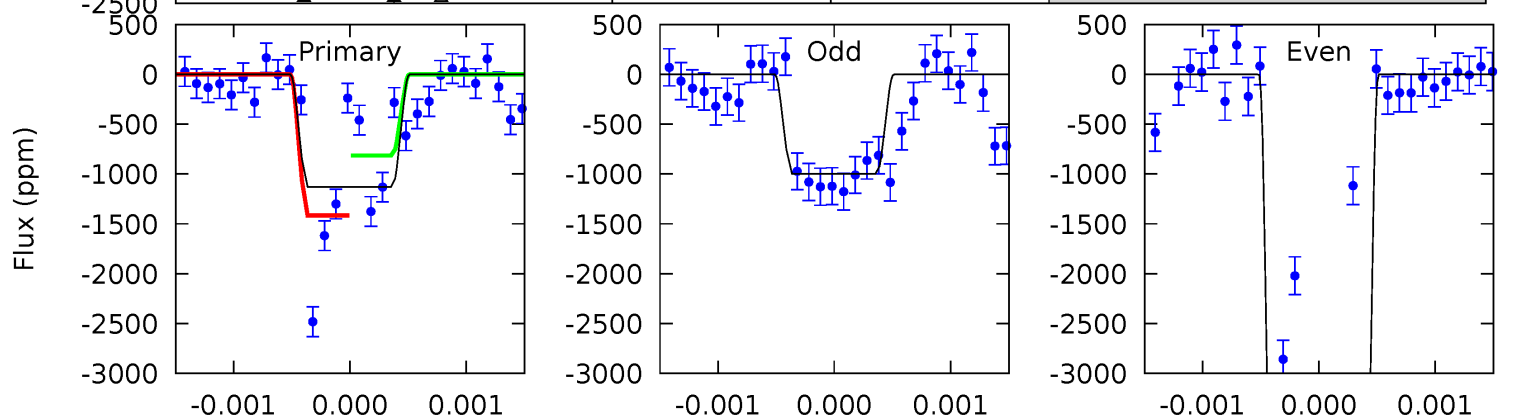
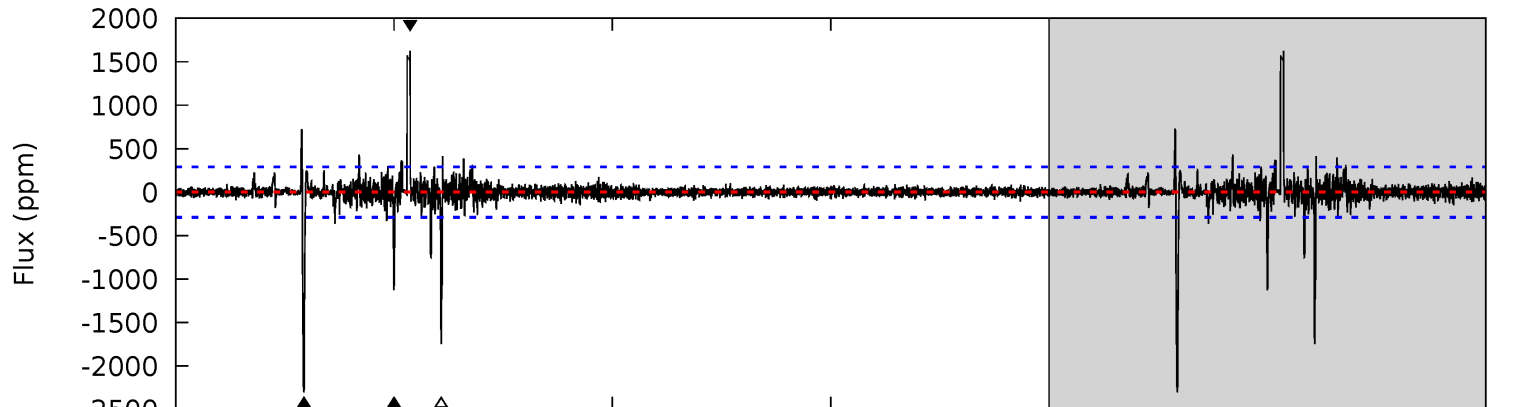
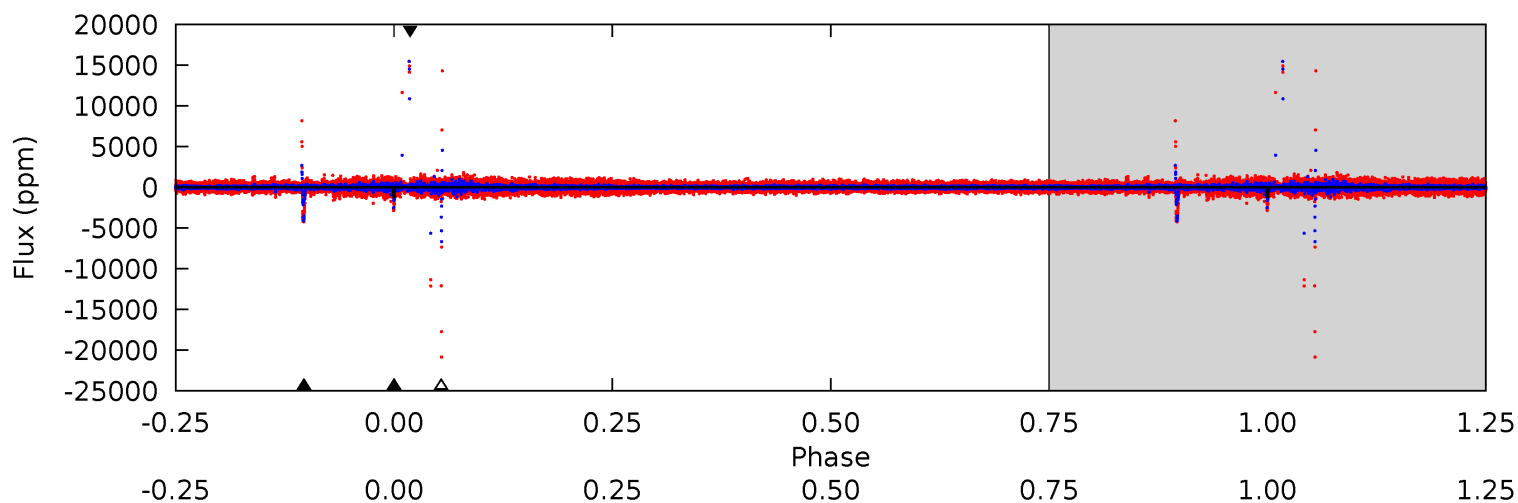
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007679979-05, P = 348.950715 Days, E = 60.629352 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.2	43.2	32.8	30.4	5.42	3.24	1.42	-11.6	-9.23	10.4	12.8	7.95	-3.24	0.41	5.98



Stellar Parameters For KIC 007679979

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5692^{+141}_{-155}	$4.553^{+0.042}_{-0.168}$	$-0.100^{+0.300}_{-0.300}$	$0.851^{+0.207}_{-0.069}$	$0.944^{+0.094}_{-0.115}$	$2.157^{+0.372}_{-1.021}$
	+2%/-3%	+1%/-4%	+300%/-300%	+24%/-8%	+10%/-12%	+17%/-47%
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 007679979-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$7.58^{+7.80}_{-5.21}$	338^{+20}_{-13}	4704^{+15511}_{-21469}	$21140^{+1735151}_{-1329665}$
Alt.	-2302 ± 53	$8.40^{+8.07}_{-5.82}$	338^{+17}_{-13}	4459^{+3141}_{-951}	$16535^{+147193}_{-12306}$

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 $A_{obs} \gg 1.0$

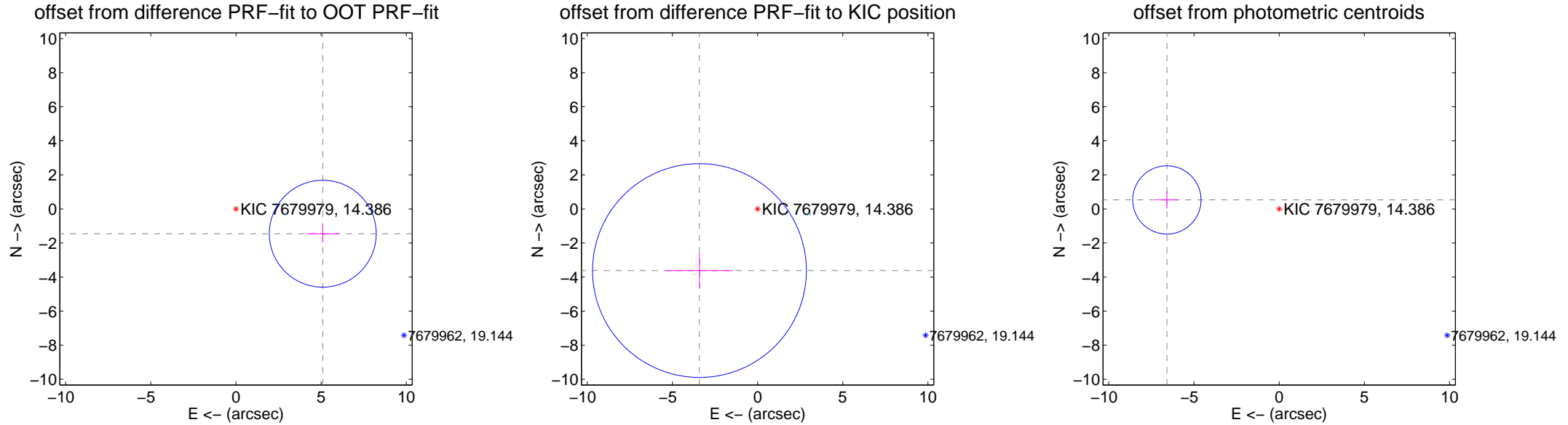
DV Centroid Data

Supplemental centroid analysis for 007679979-05. Kepler magnitude: 14.39. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

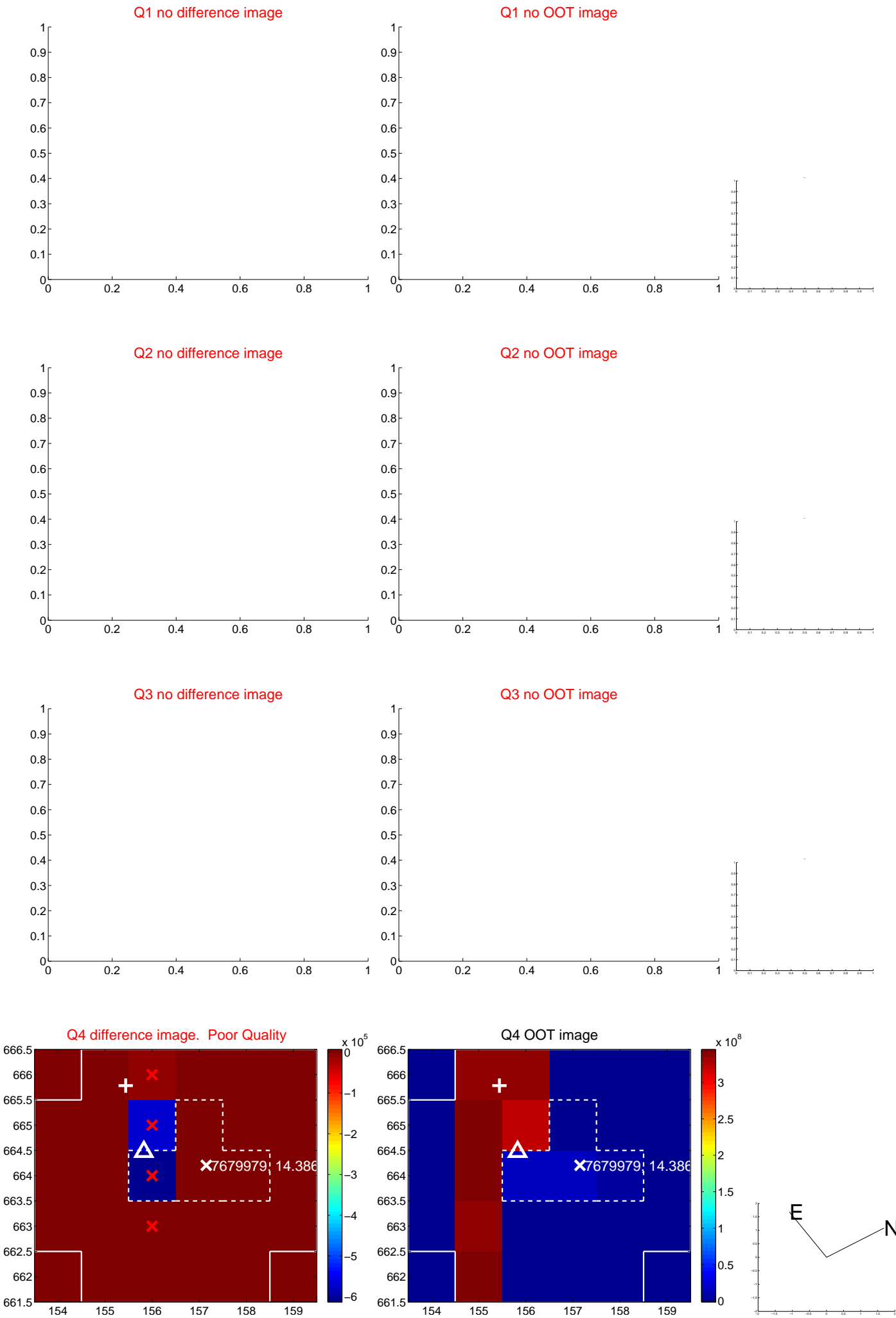
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.297 ± 1.046	5.06	-5.094 ± 0.943	-1.454 ± 0.512
PRF-fit source offset from KIC position	4.973 ± 2.092	2.38	3.413 ± 1.966	-3.618 ± 1.023
photometric centroid source offset	6.61 ± 0.67	9.90	6.59 ± 0.67	0.53 ± 0.51

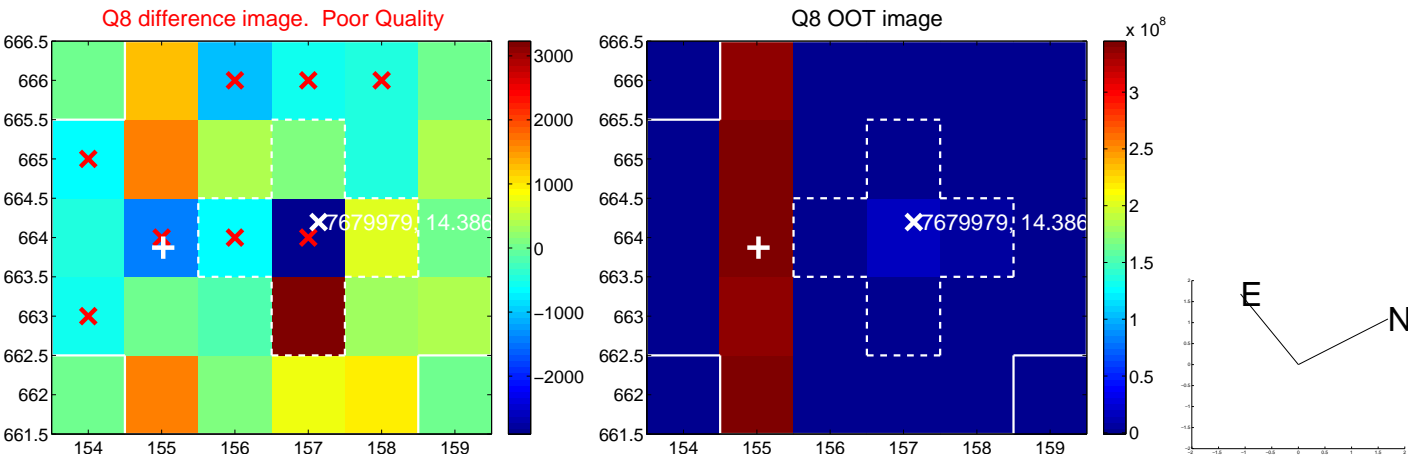


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

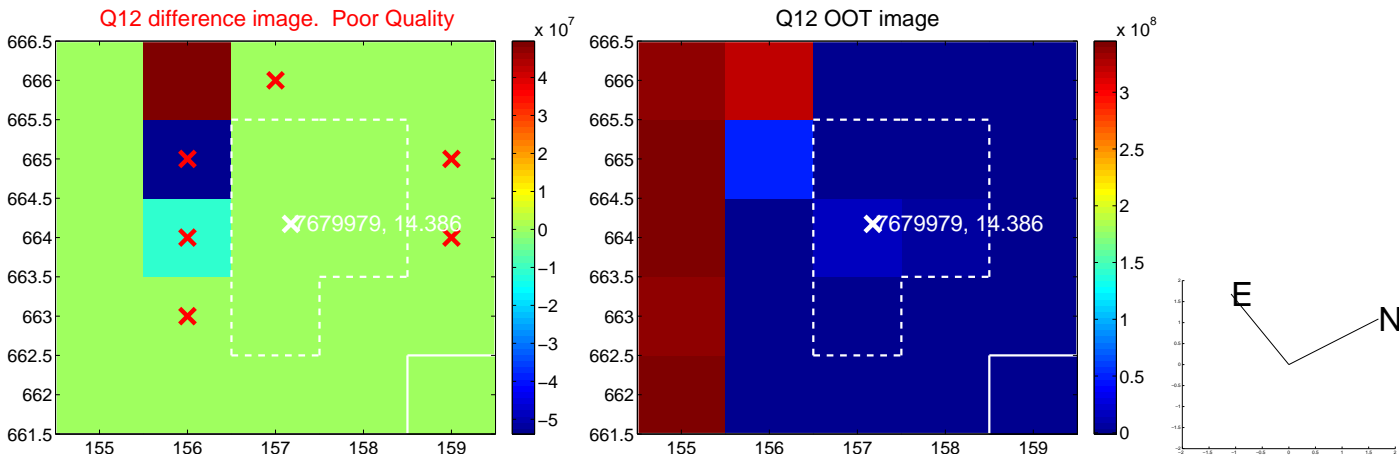
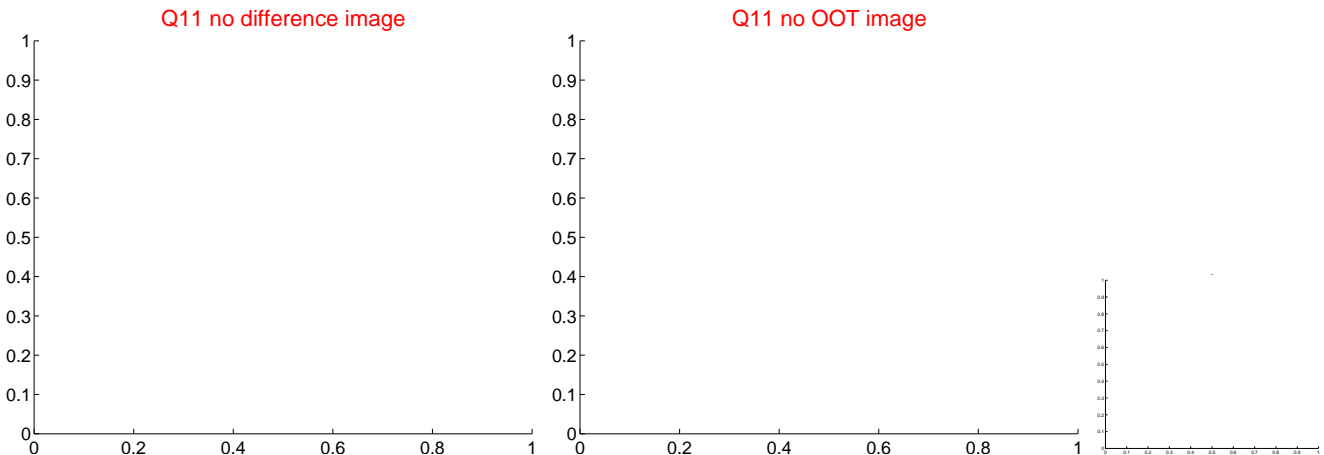
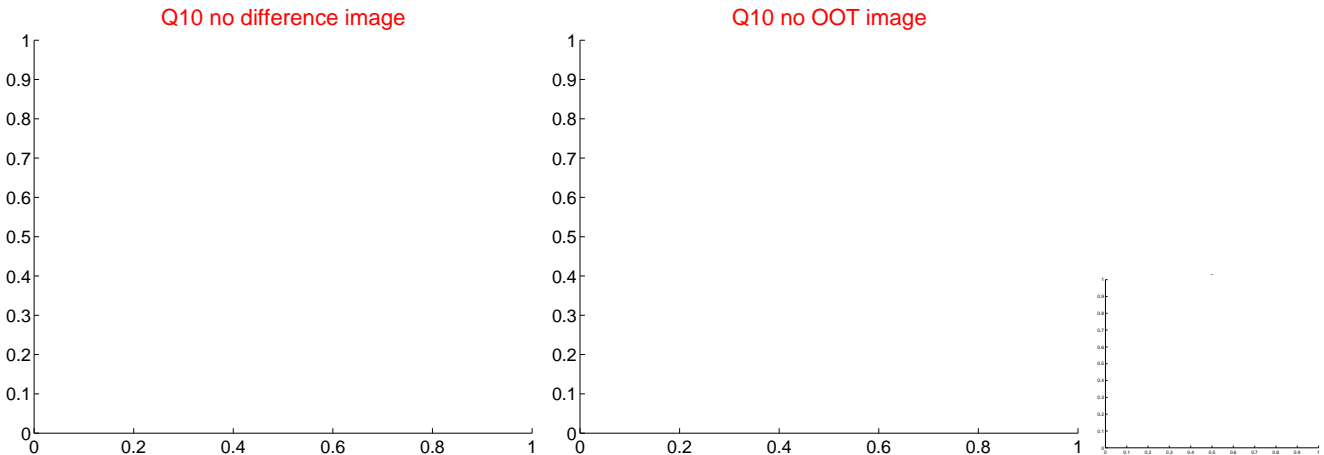
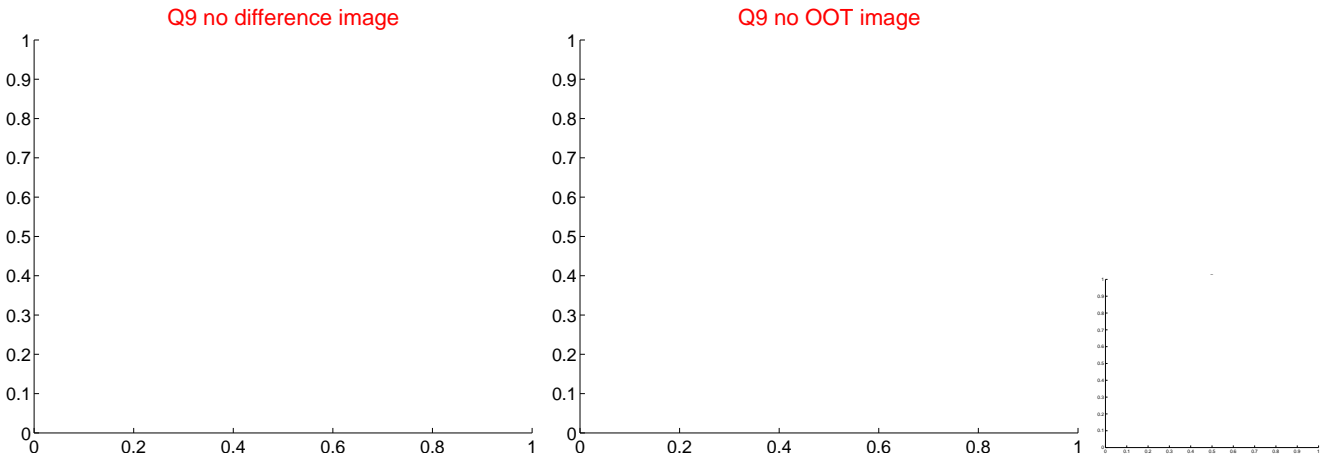
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



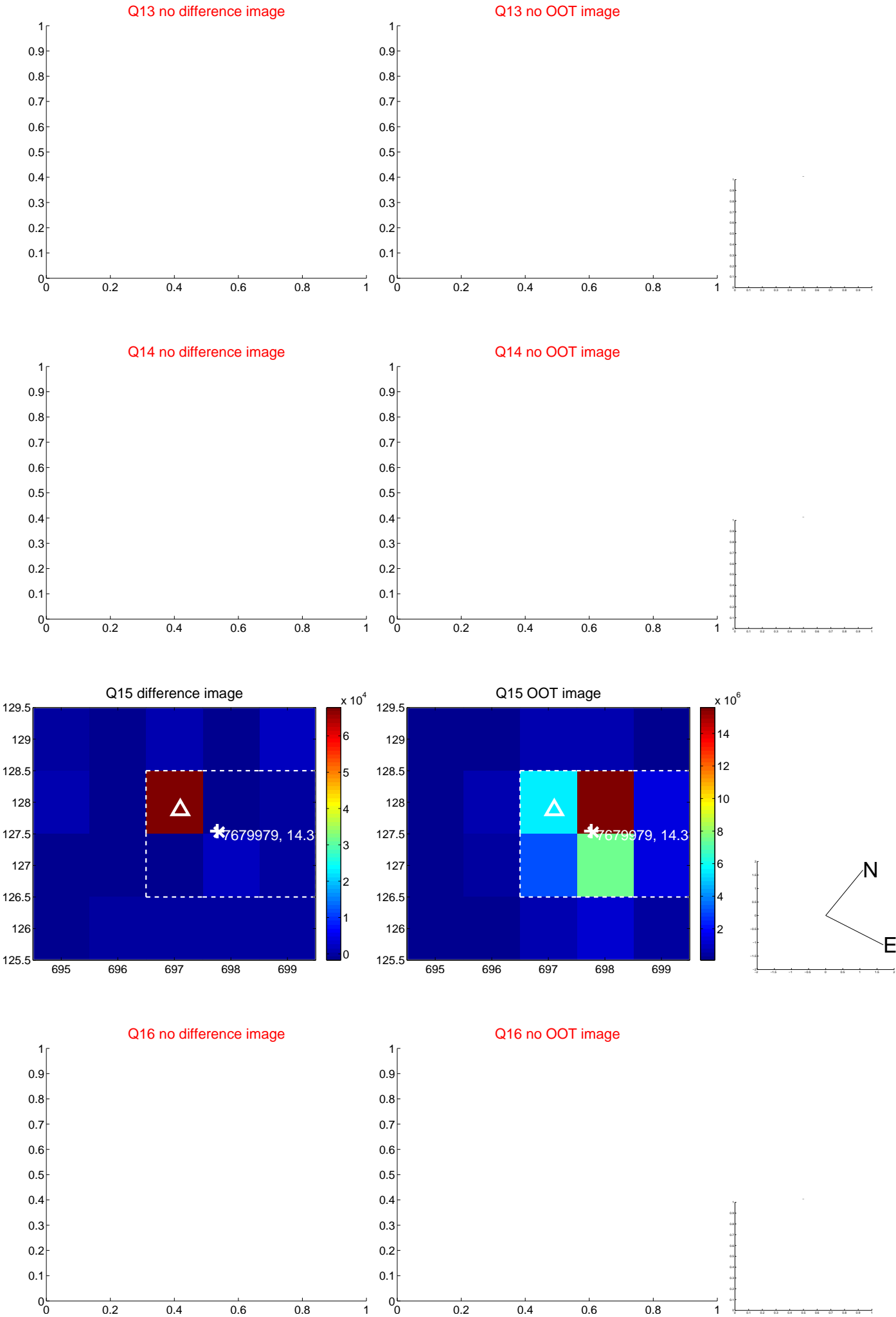
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



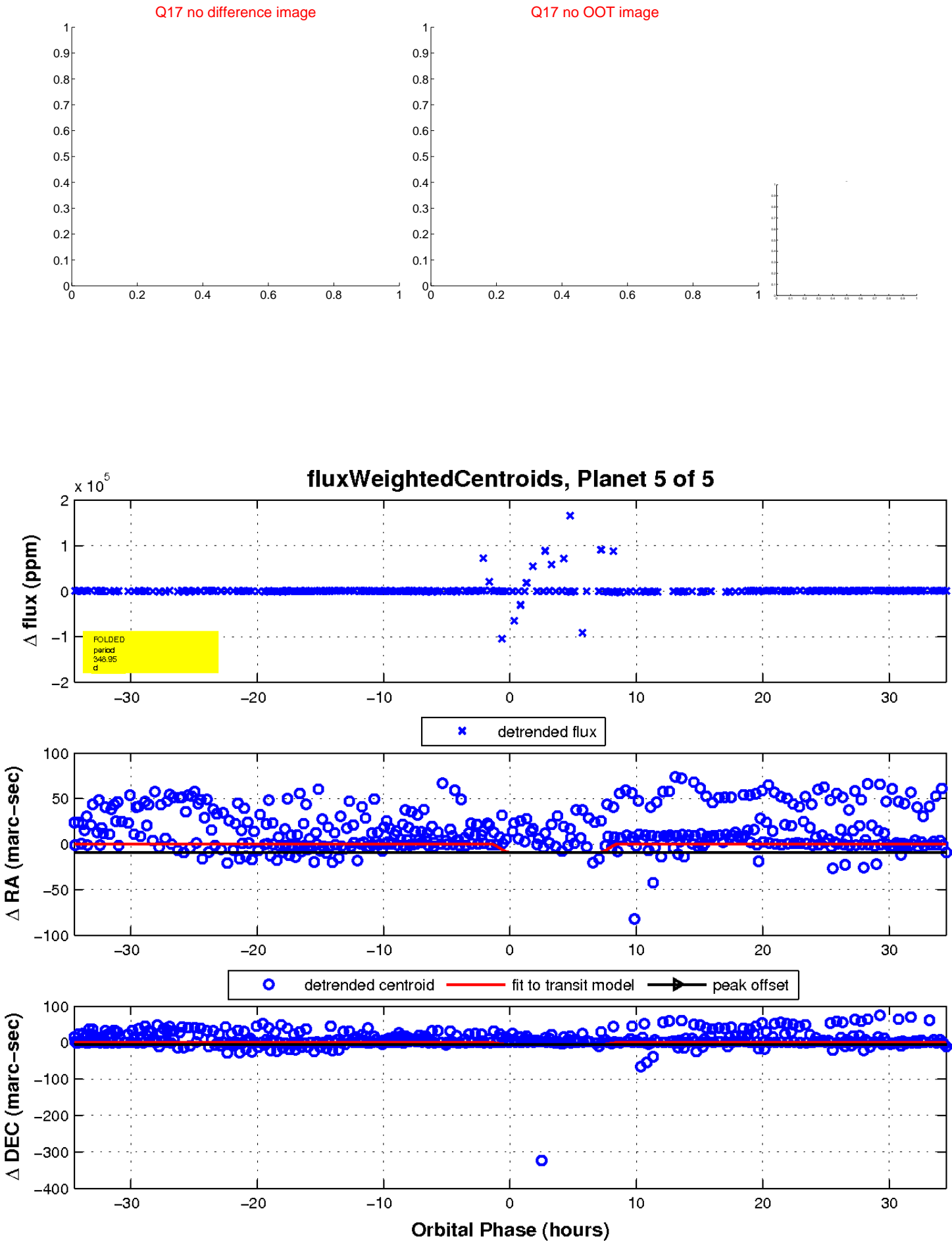
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

