

KIC 003526481

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})
003526481-01	OBS	No	485.655832	531.340454	836.7	6.461	18.8	9.5	2.57	5687	7.55	3.40
003526481-02	OBS	No	216.709560	329.941623	569.4	5.482	15.8	8.3	2.57	5687	6.37	9.99
003526481-03	OBS	No	537.615779	498.514962	739.6	10.436	13.9	6.6	2.57	5687	12.71	2.97
003526481-04	OBS	No	672.740070	221.443925	413.0	9.031	13.5	5.0	2.57	5687	5.94	2.21
003526481-05	OBS	No	435.580175	552.016674	588.3	5.323	12.6	7.7	2.57	5687	7.00	3.94
003526481-06	OBS	No	329.712428	435.836924	563.2	17.565	11.6	7.0	2.57	5687	6.26	5.71
003526481-07	OBS	No	229.171012	246.407054	308.8	3.000	11.8	-1.0	2.57	5687	4.46	9.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003526481-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
003526481-06	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
003526481-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—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.

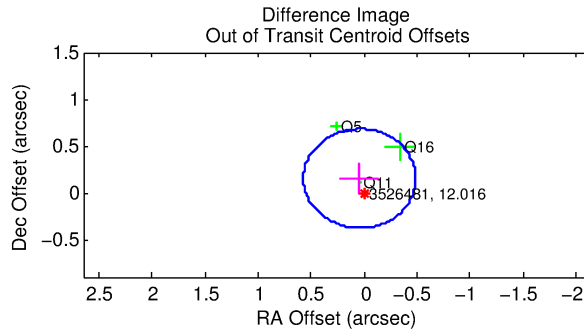
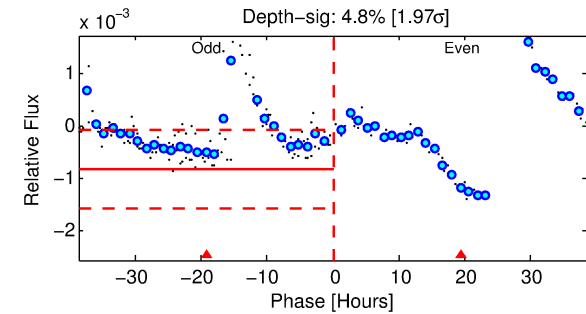
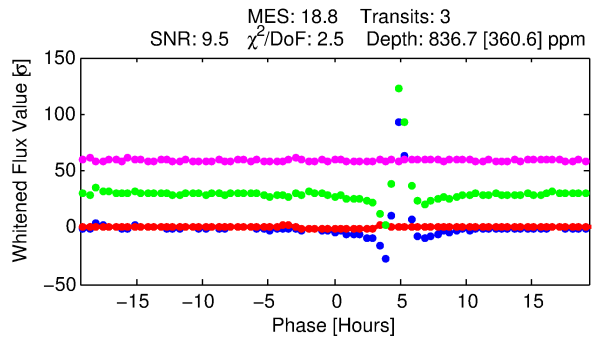
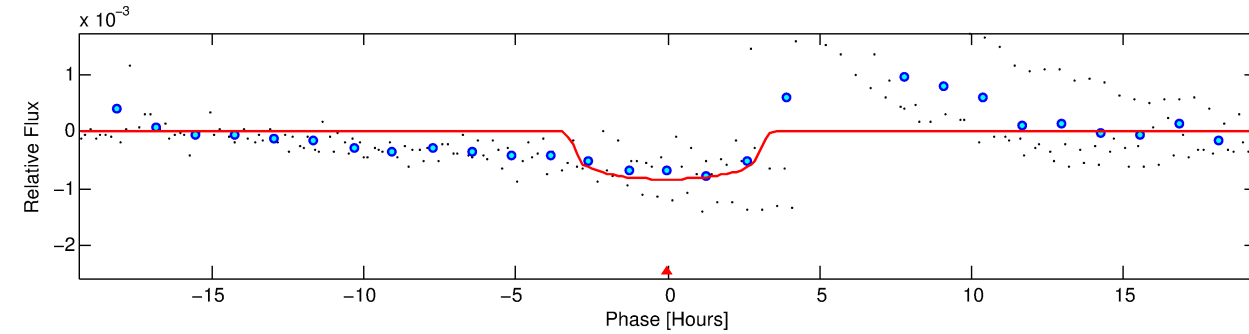
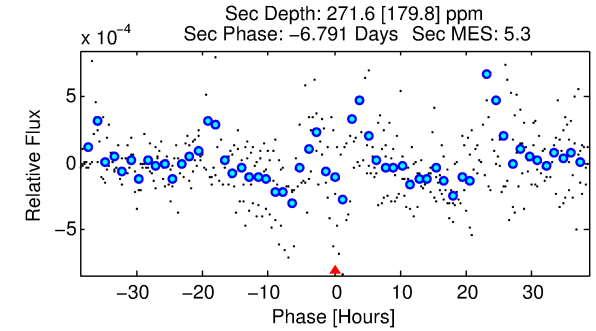
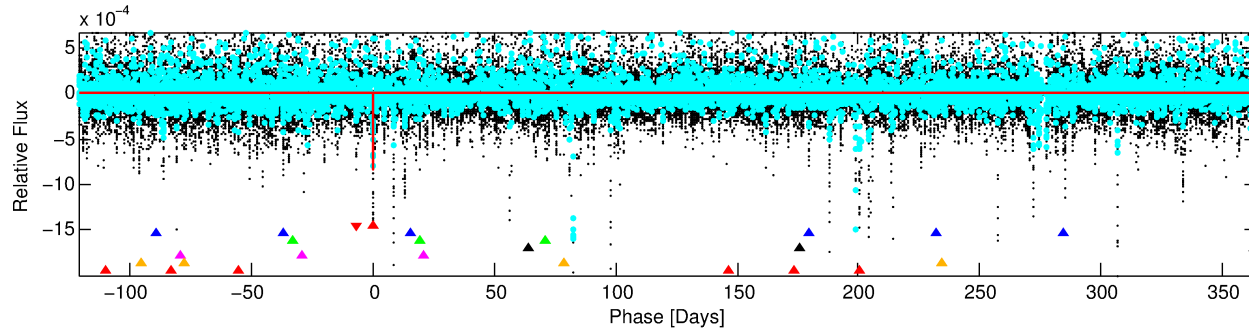
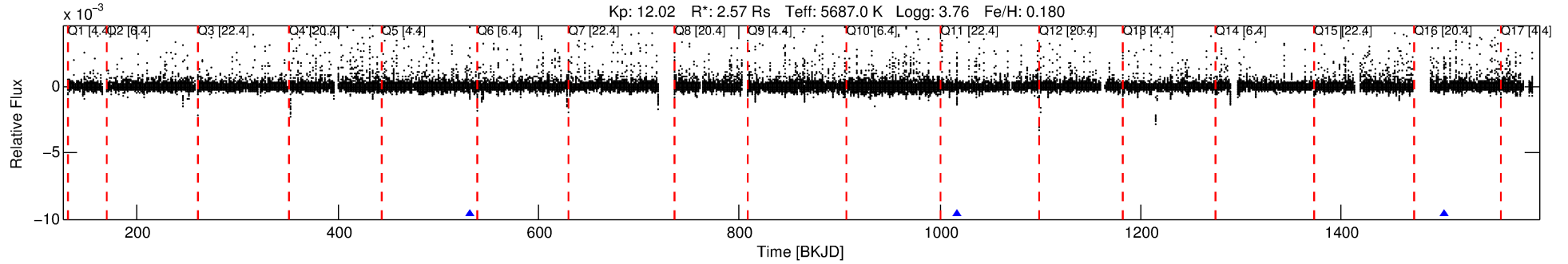
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003526481-01

No Significant Match Found

DV One-Page Summary

KIC: 3526481 Candidate: 1 of 7 Period: 485.656 d



DV Fit Results:

Period = 485.65583 [0.01438] d
Epoch = 531.3405 [0.0211] BKJD
Rp/R* = 0.0269 [0.0674]
a/R* = 524.03 [5488.70]
b = 0.47 [17.45]
Seff = 3.41 [3.34]
Teq = 346 [85] K
Rp = 7.55 [19.41] Re
a = 1.3493 [0.7929] AU
Ag = 4767.96 [24547.98] [0.19 σ]
Teffp = 4450 [5626] K [0.73 σ]

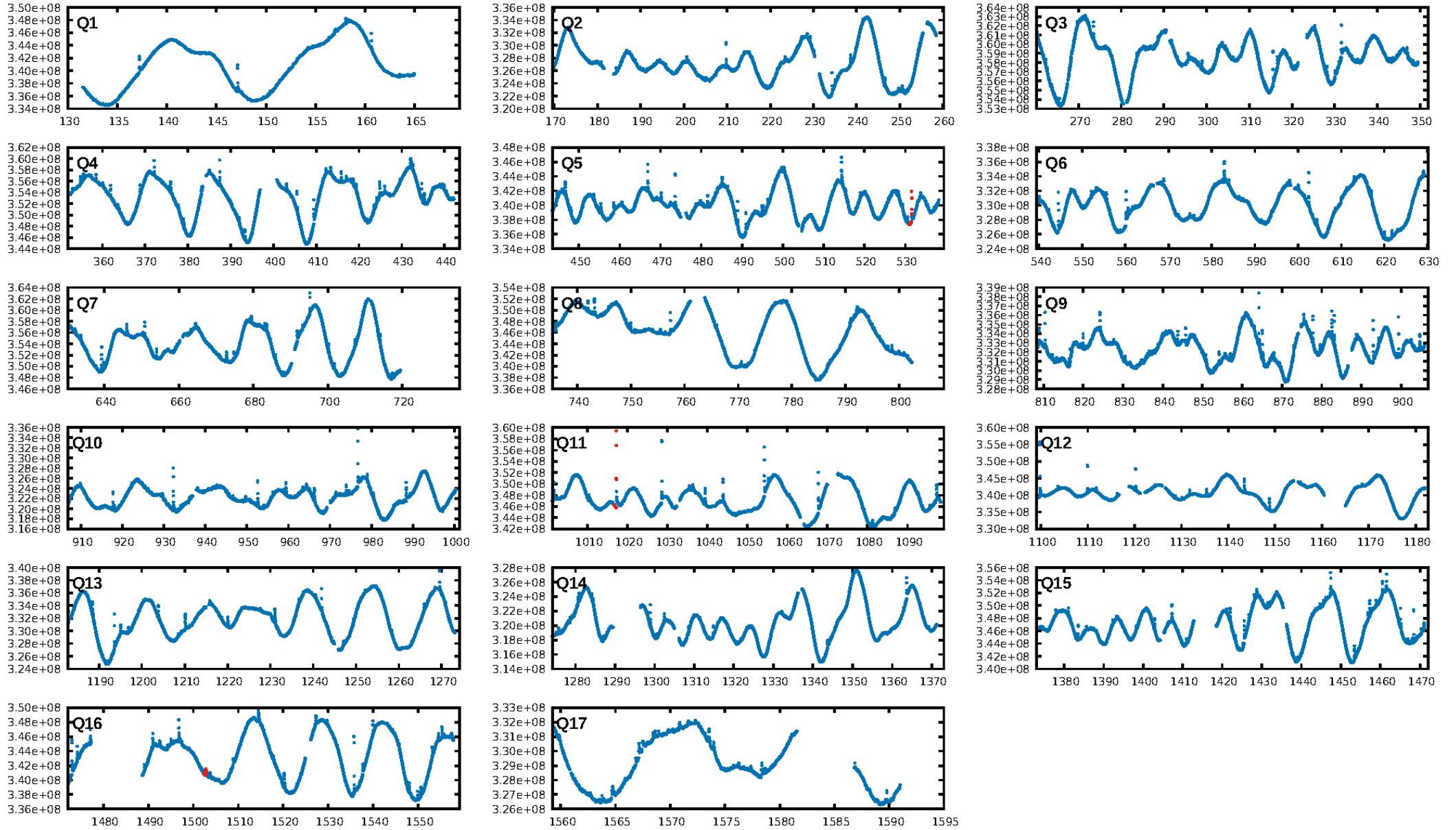
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [143.57 σ]
LongPeriod-sig: 100.0% [101.60 σ]
ModelChiSquare2-sig: 1.0%
ModelChiSquareGof-sig: 0.7%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.4276
Centroid-sig: 53.9%
Centroid-so: 0.203 arcsec [0.56 σ]
OotOffset-rm: 0.158 arcsec [0.89 σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-rm: 0.315 arcsec [1.97 σ]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

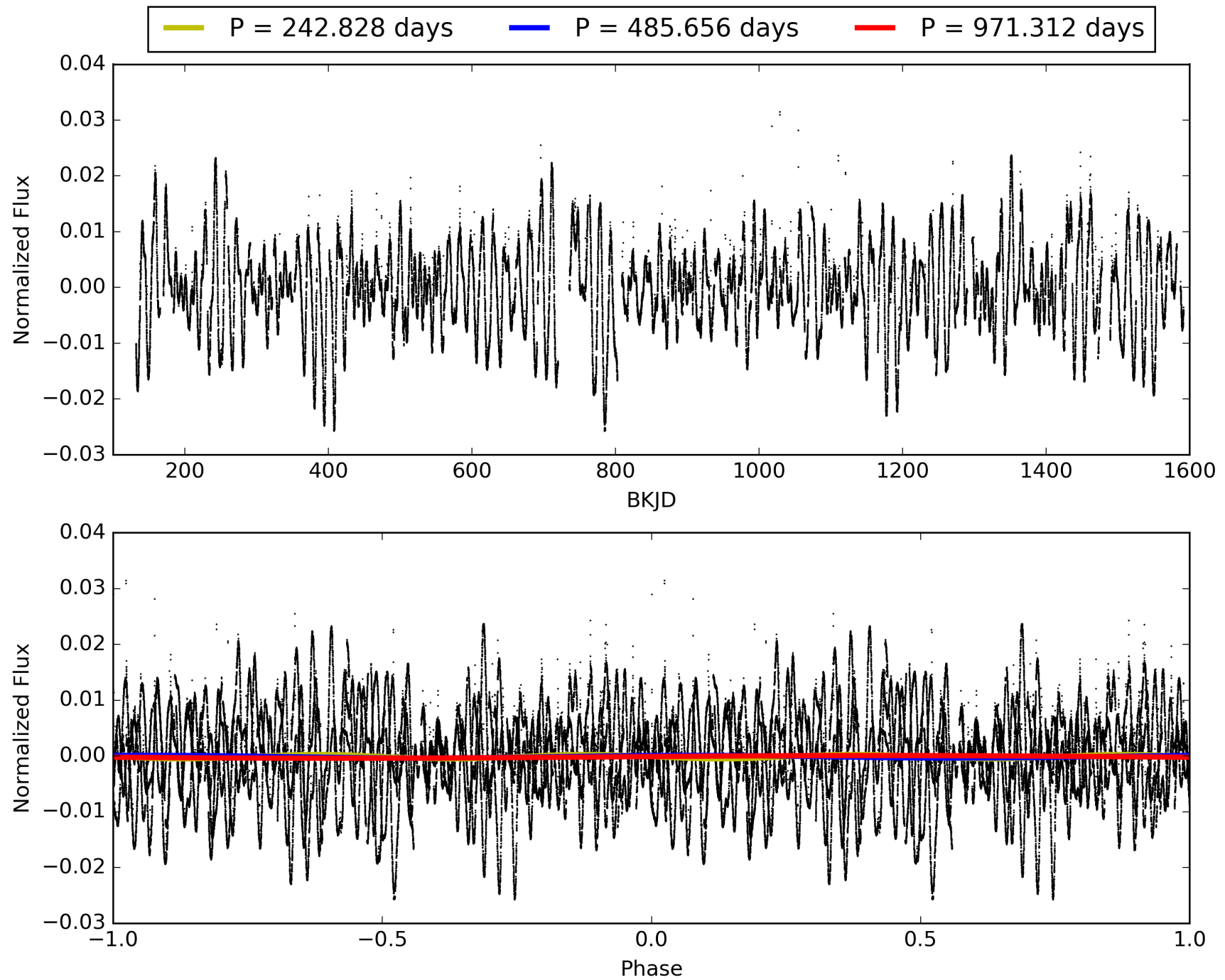
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 003526481-01, PDC Light Curves

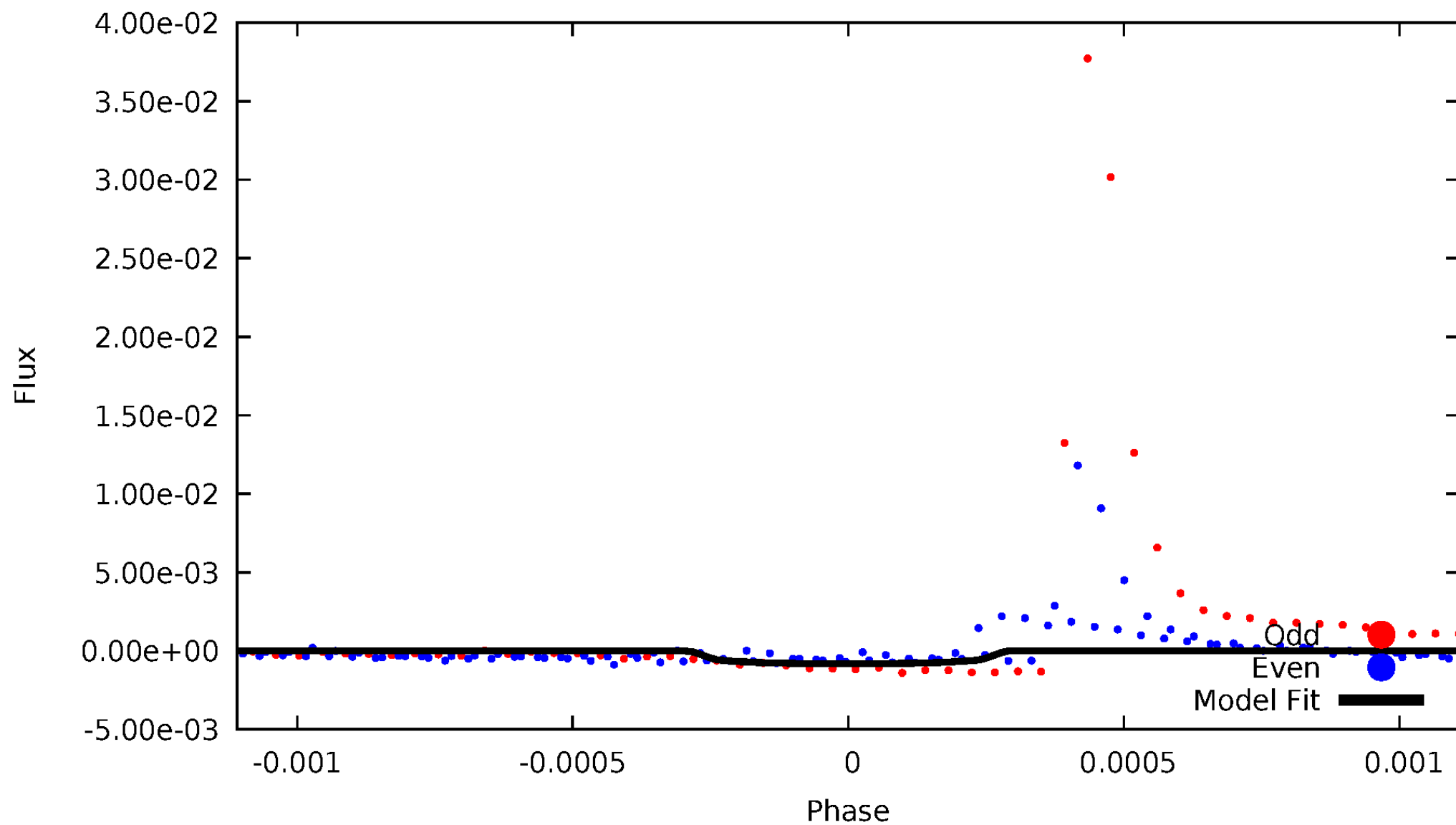


TCE 003526481-01



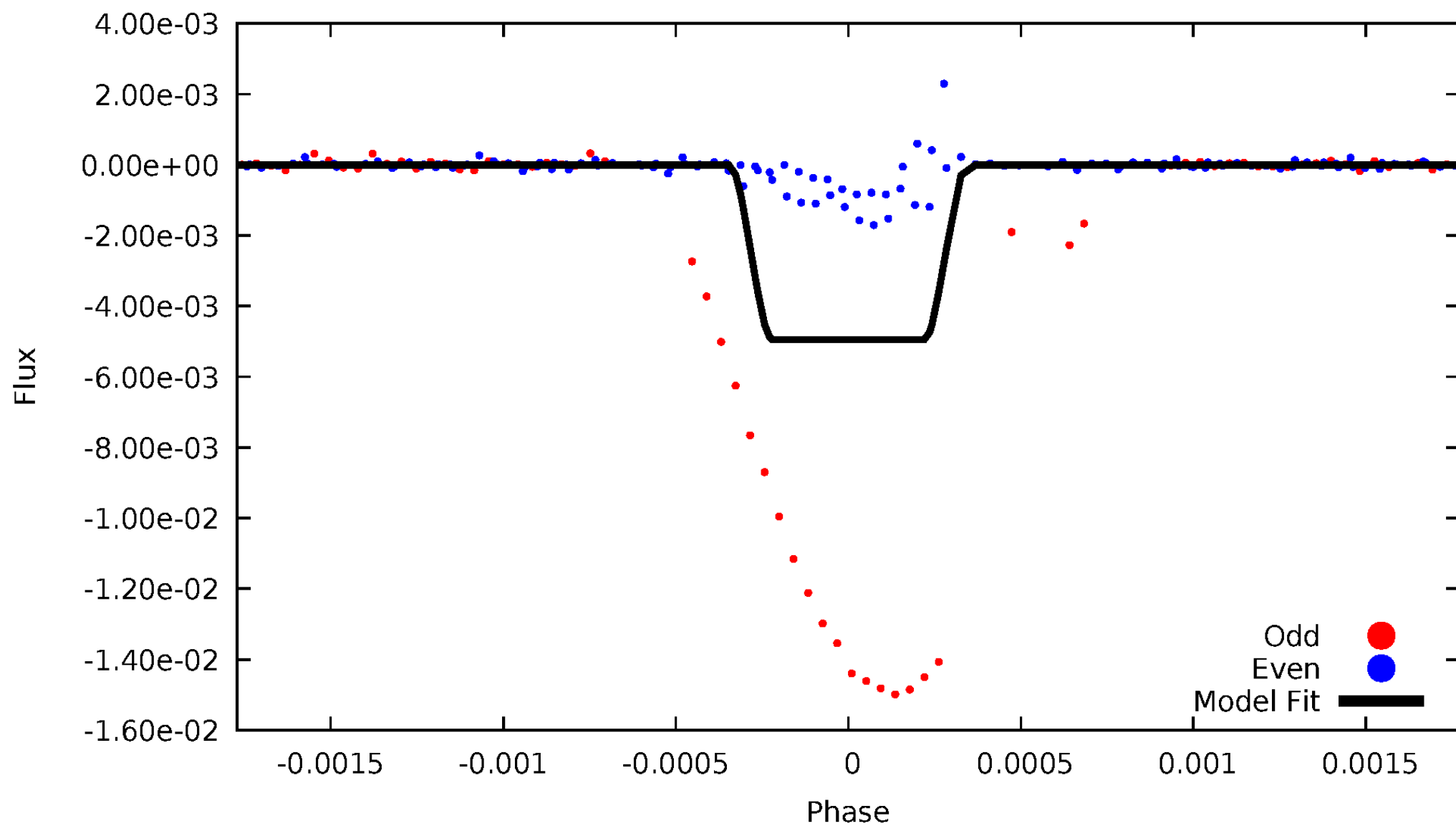
DV Odd/Even

TCE 003526481-01



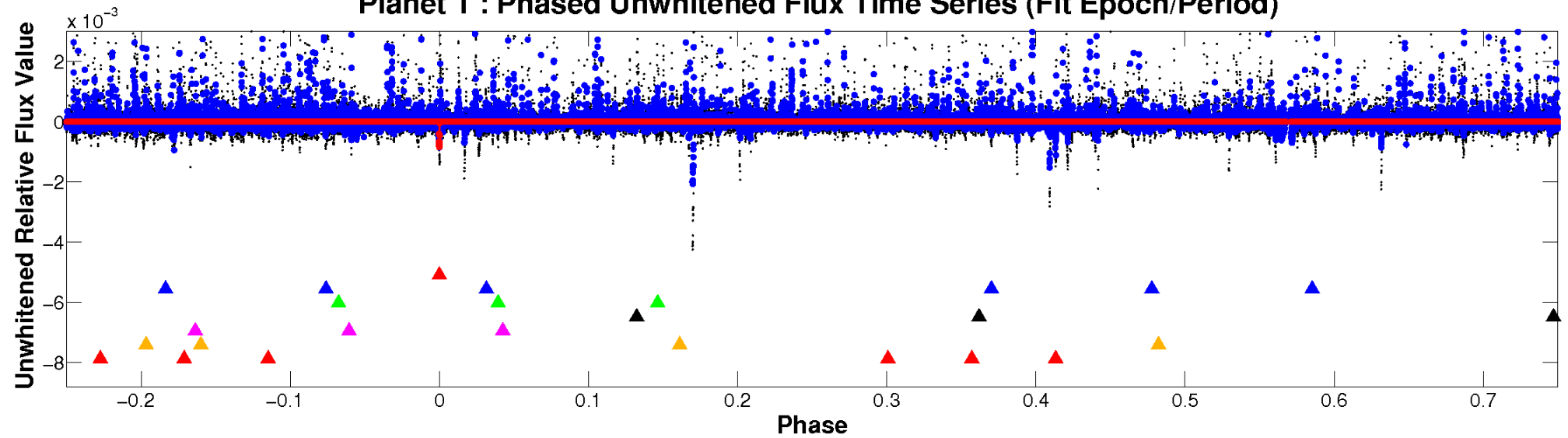
ALT Odd/Even

TCE 003526481-01

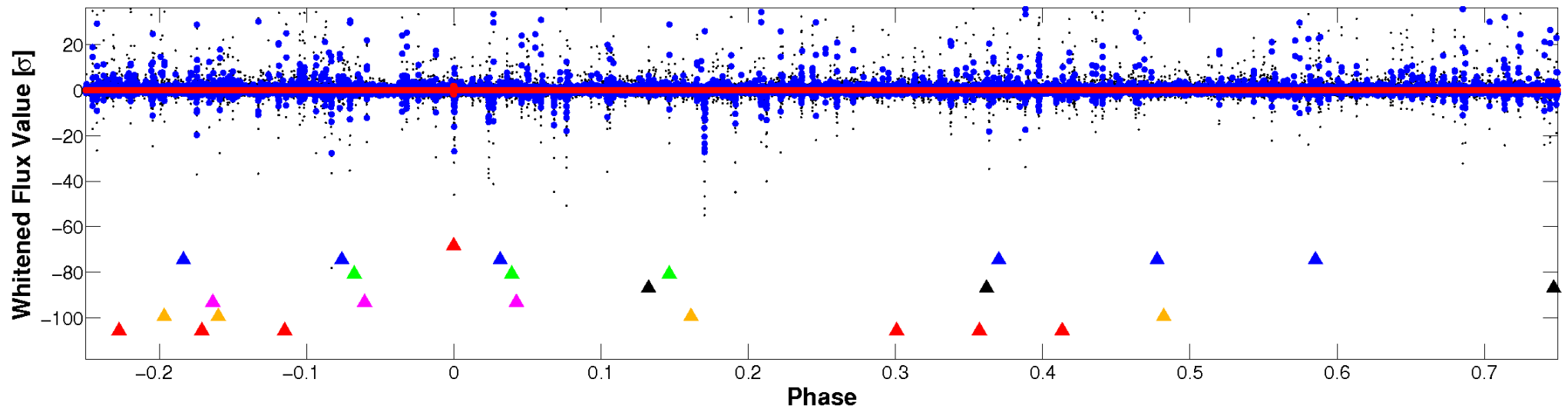


Non-Whitened Vs. Whitened Light Curve

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

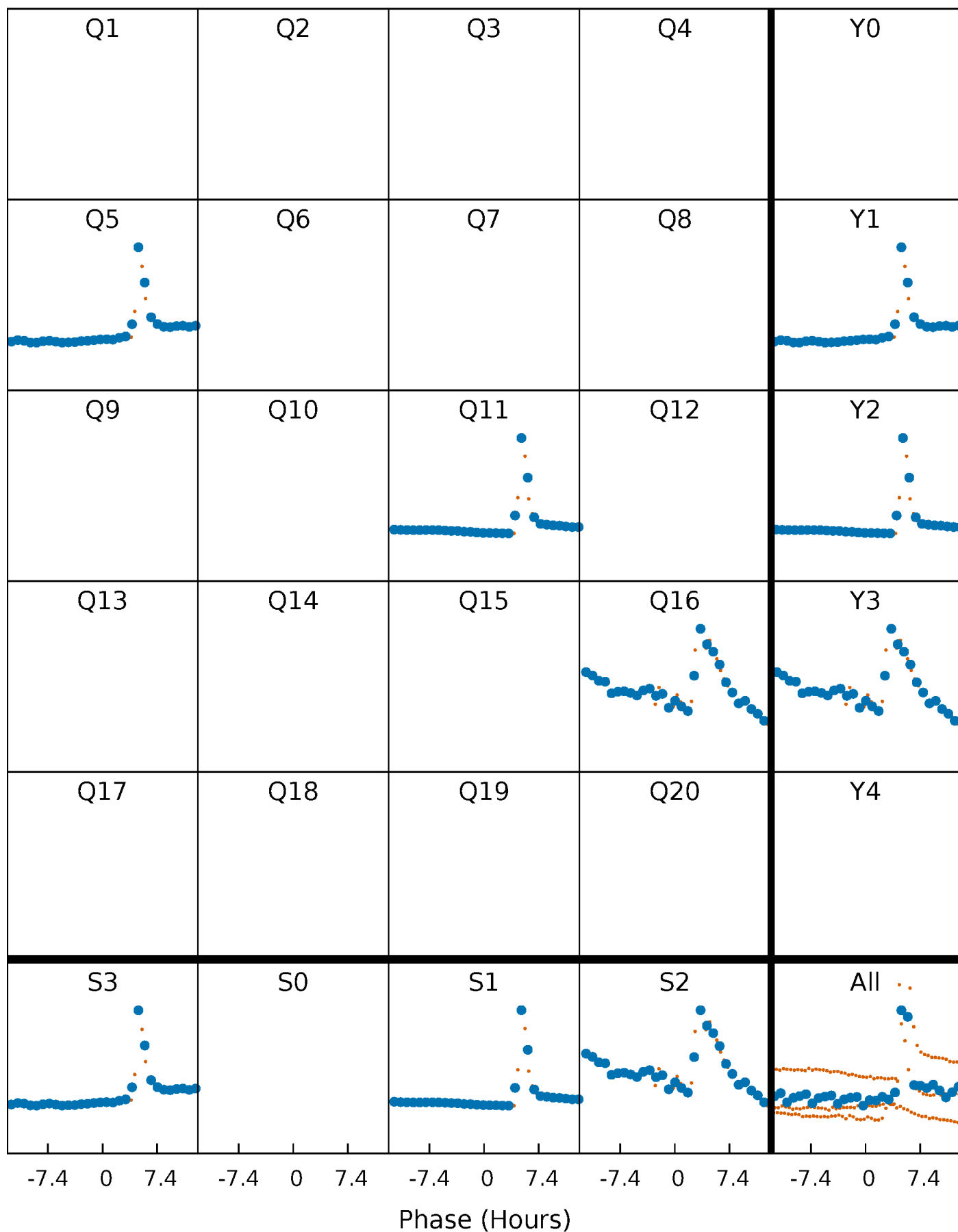


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



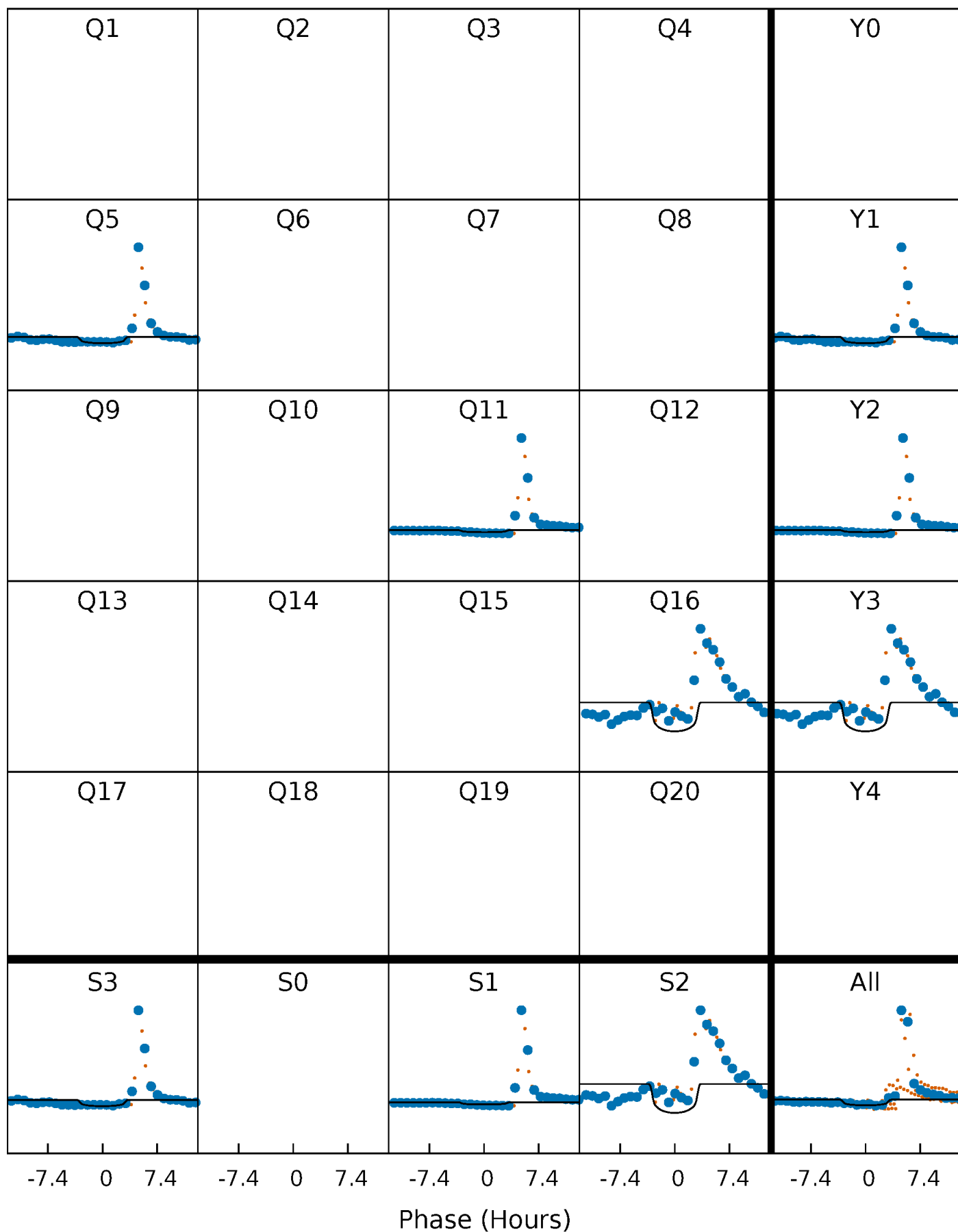
PDC Quarter-Phased Transit Curves

TCE 003526481-01 P=485.655832 Days $T_0=531.340454$ (BKJD)



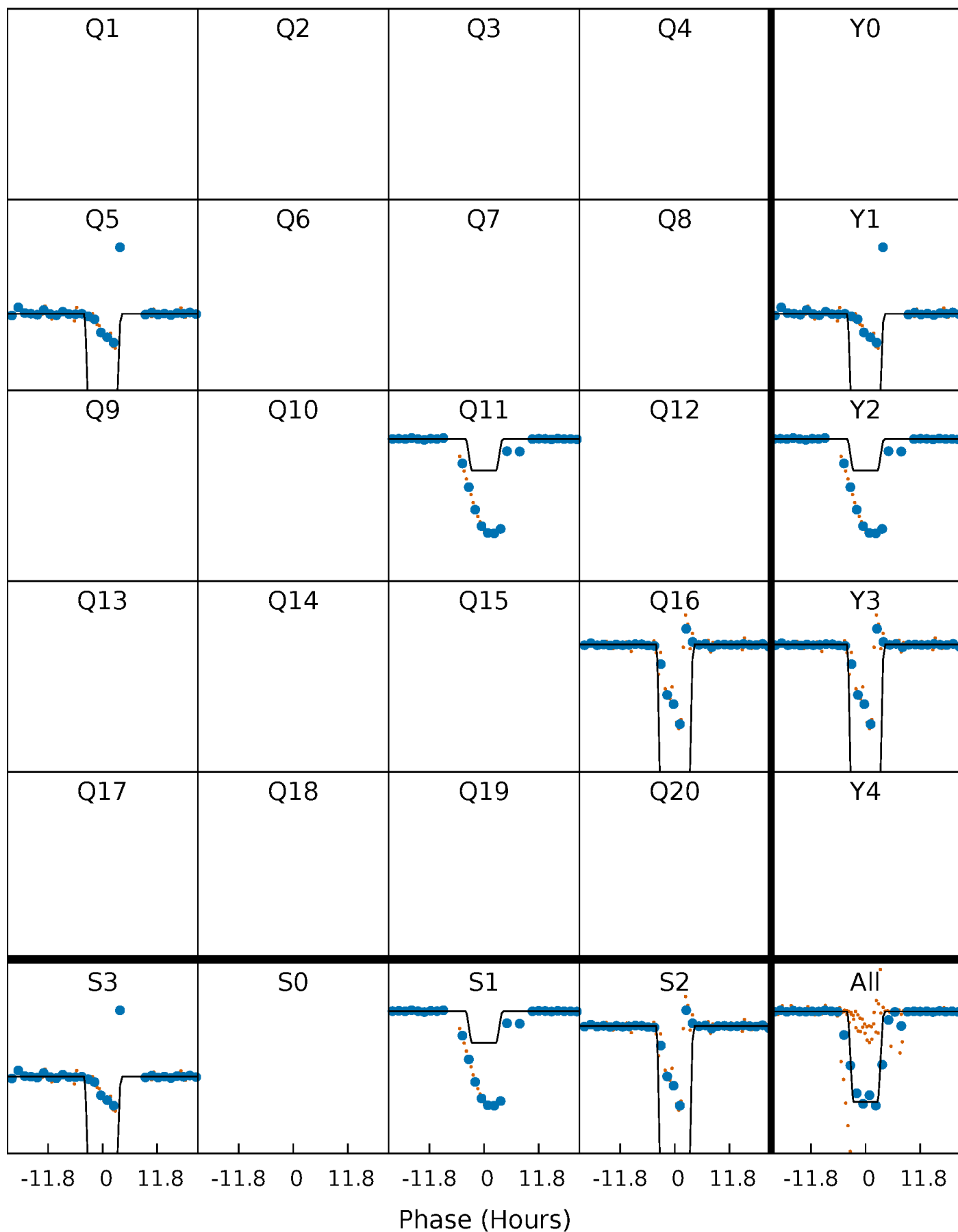
DV Quarter-Phased Transit Curves

TCE 003526481-01 P=485.655832 Days $T_0=531.340454$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

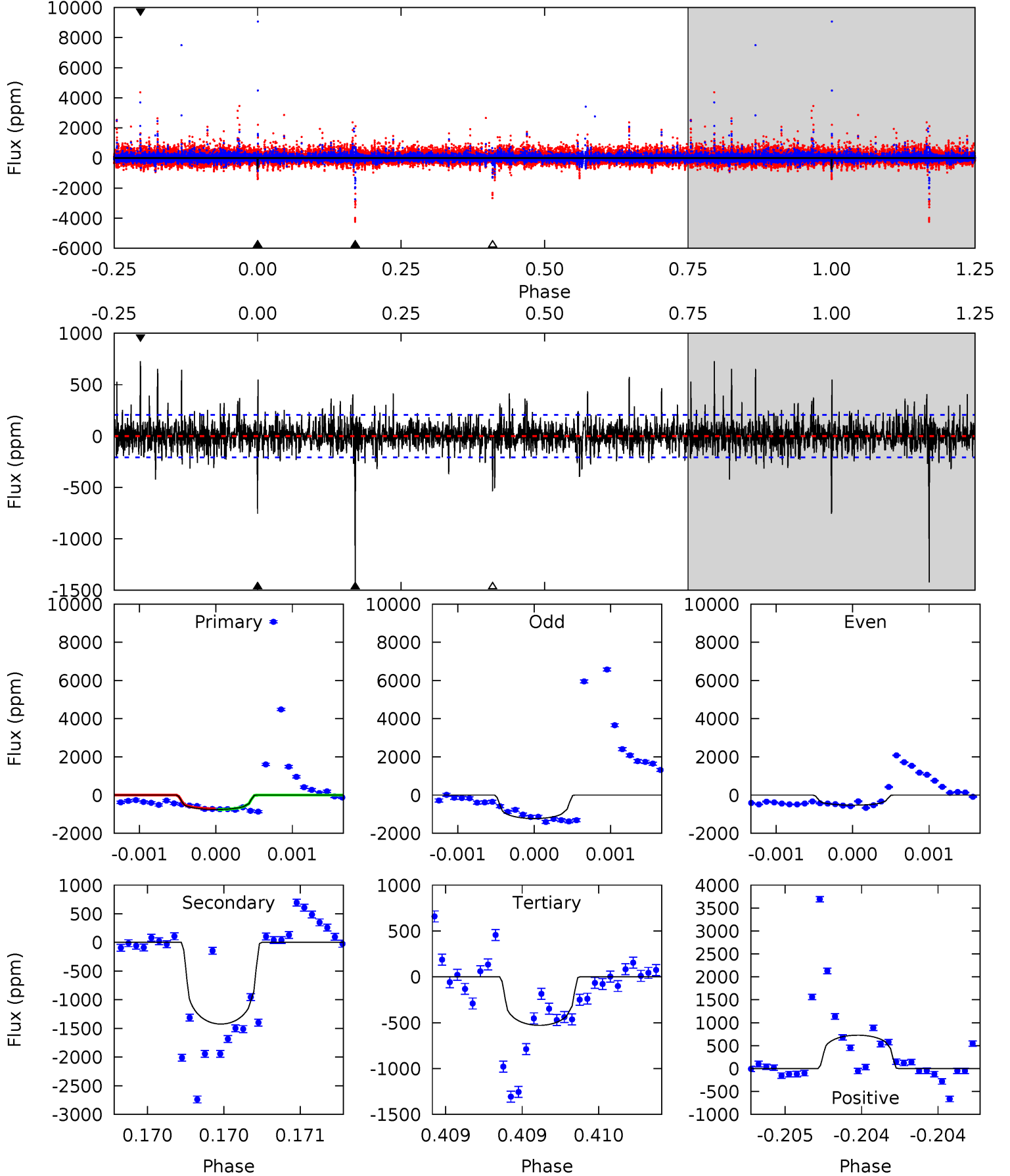
TCE 003526481-01 P=485.651232 Days $T_0=531.387652$ (BKJD)



DV Model-Shift Uniqueness Test

003526481-01, P = 485.655832 Days, E = 45.684622 Days

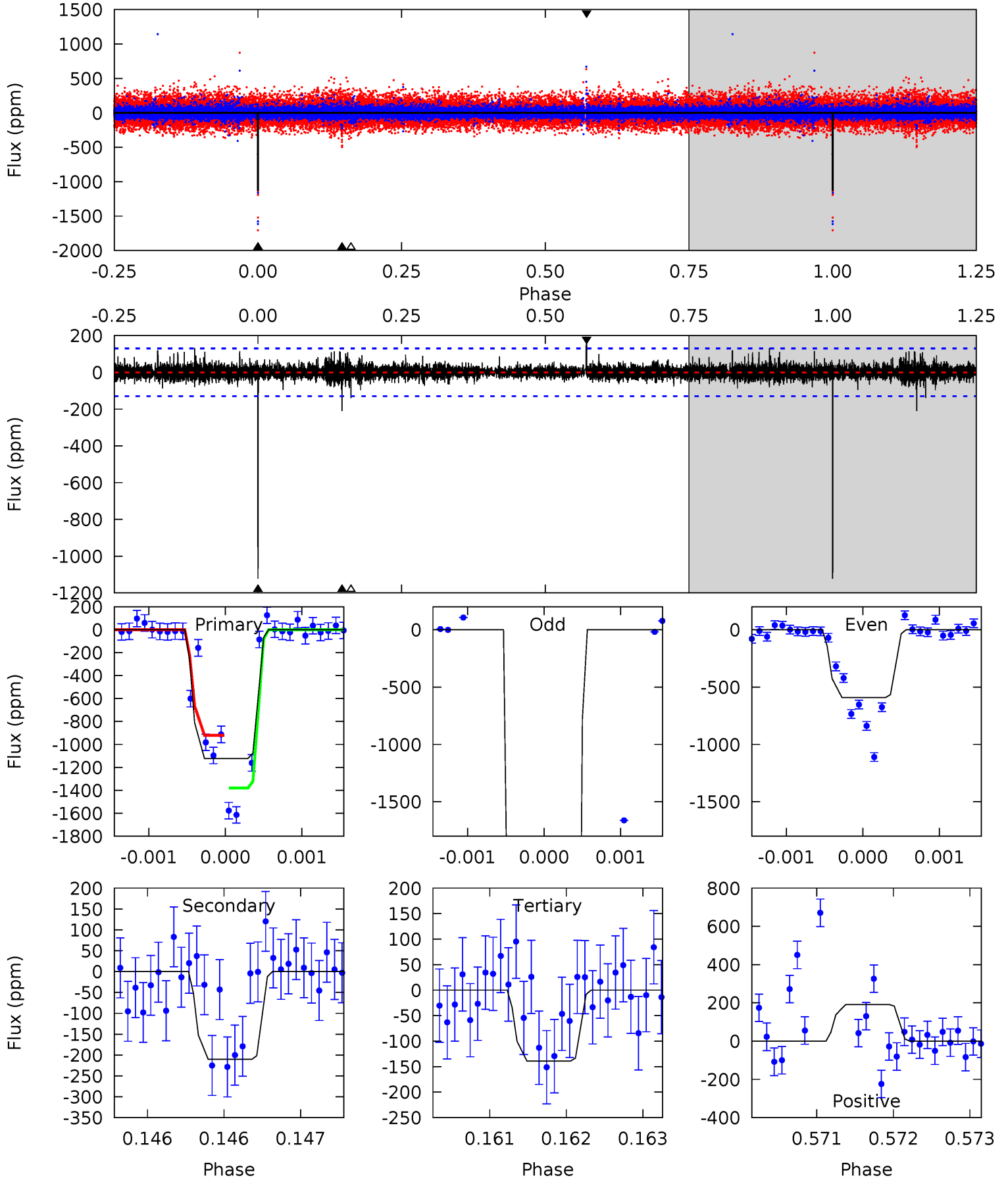
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.2	38.2	14.2	19.5	5.55	3.44	2.56	6.05	0.72	24.0	18.7	4.24	1.02	0.34	0.50



Alt Model-Shift Uniqueness Test

003526481-01, P = 485.651232 Days, E = 45.736420 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
47.7	8.95	5.92	8.13	5.53	3.41	0.84	41.8	39.6	3.04	0.82	332.7	6.41	0.15	9.74



Stellar Parameters For KIC 003526481

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5687^{+170}_{-153}	$3.760^{+0.584}_{-0.146}$	$0.180^{+0.200}_{-0.300}$	$2.572^{+0.628}_{-1.466}$	$1.387^{+0.134}_{-0.402}$	$0.115^{+0.870}_{-0.045}$
	+3%/-3%	+16%/-4%	+111%/-167%	+24%/-57%	+10%/-29%	+758%/-40%
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 003526481-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1424 ± 37	$13.56^{+14.86}_{-9.29}$	476^{+38}_{-73}	4787^{+3799}_{-1007}	7565^{+66785}_{-5759}
Alt.	-211 ± 24	$19.76^{+16.54}_{-13.31}$	474^{+40}_{-67}	3057^{+1159}_{-445}	513^{+3893}_{-363}

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 $A_{obs} \gg 1.0$

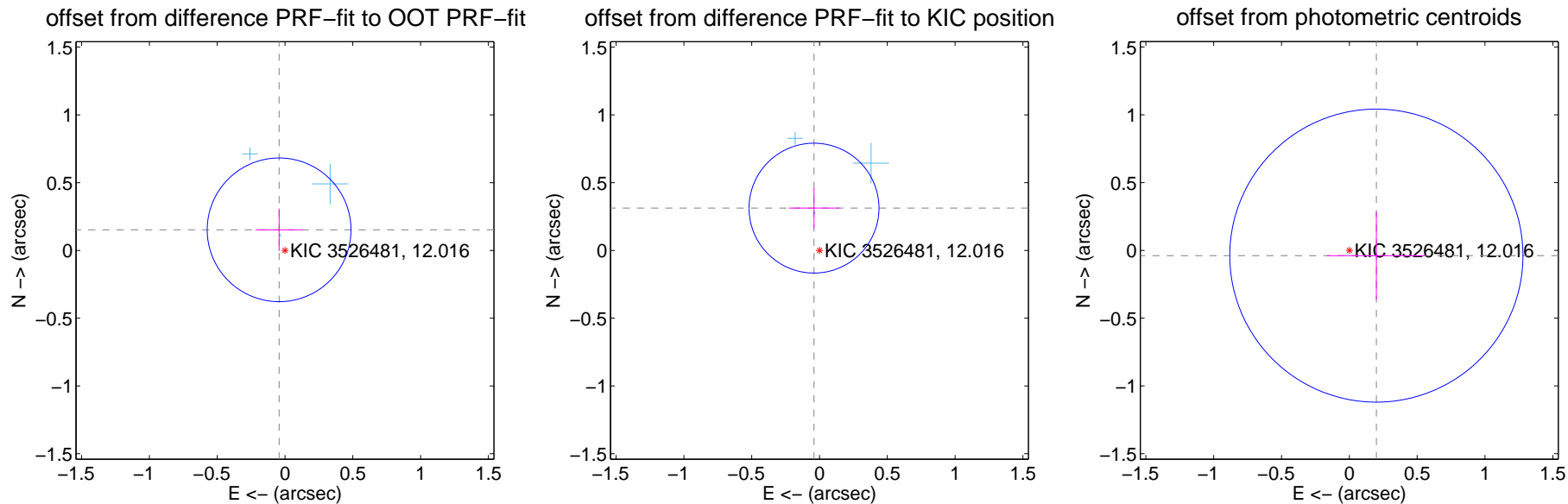
DV Centroid Data

Supplemental centroid analysis for 003526481-01. Kepler magnitude: 12.02. Transit SNR 9.55

There are 3 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	0.158 ± 0.177	0.89	0.043 ± 0.175	0.152 ± 0.157
PRF-fit source offset from KIC position	0.315 ± 0.160	1.97	0.041 ± 0.187	0.312 ± 0.149
photometric centroid source offset	0.20 ± 0.36	0.56	-0.20 ± 0.36	-0.04 ± 0.32

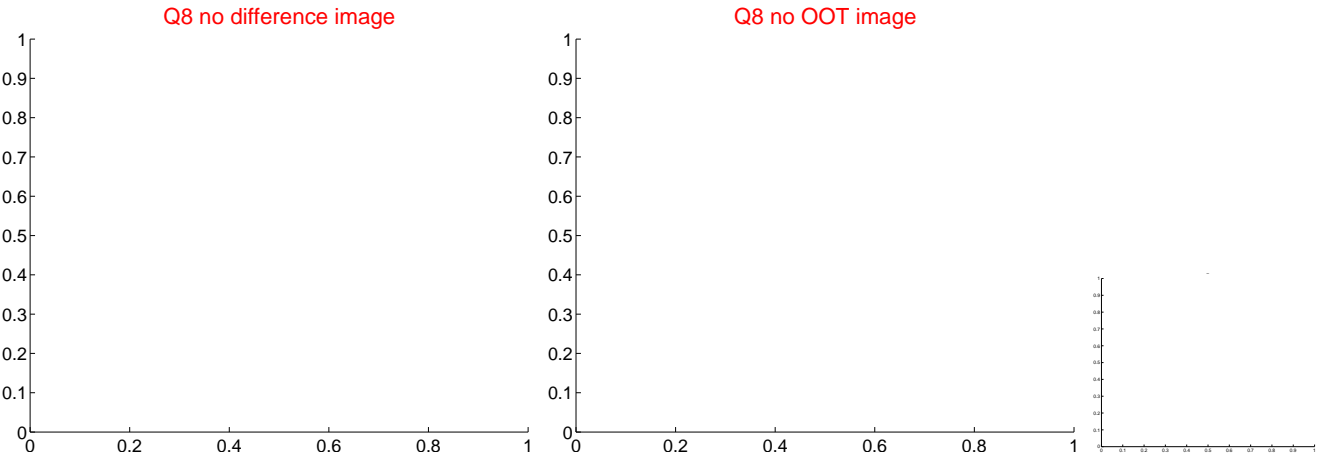
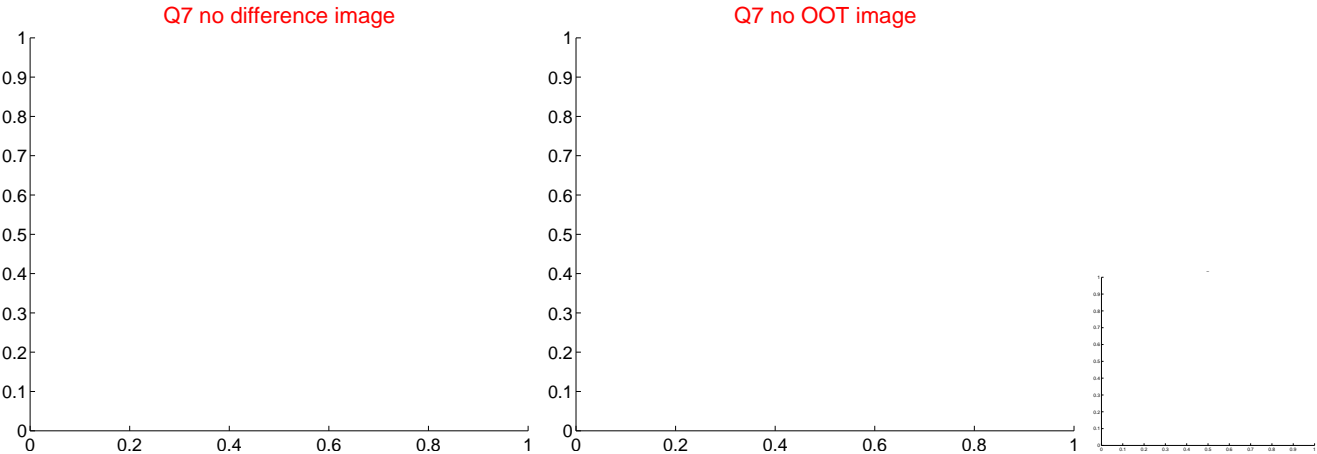
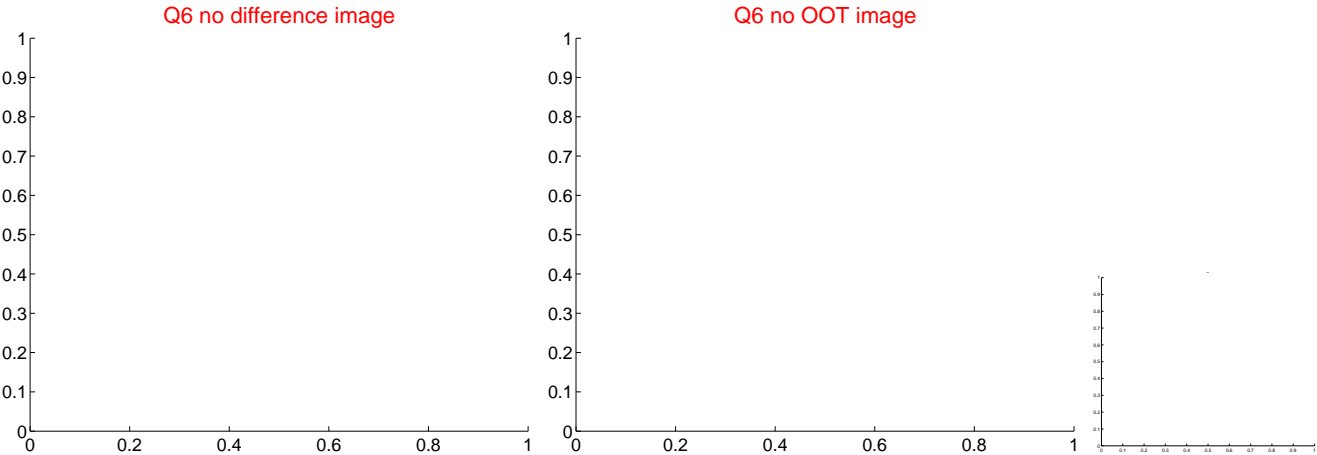
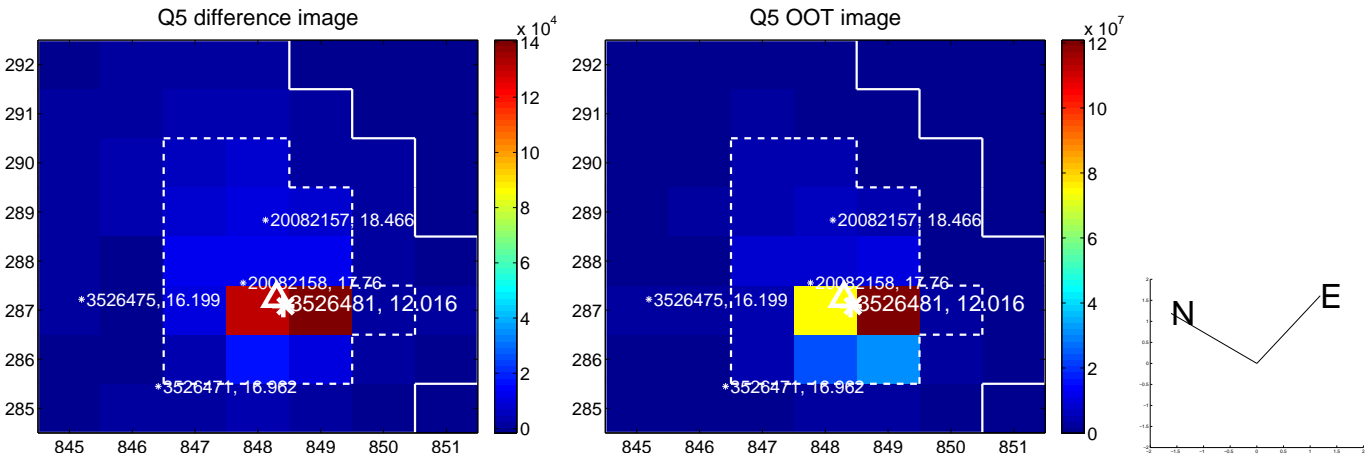


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

Q9 no difference image



Q9 no OOT image



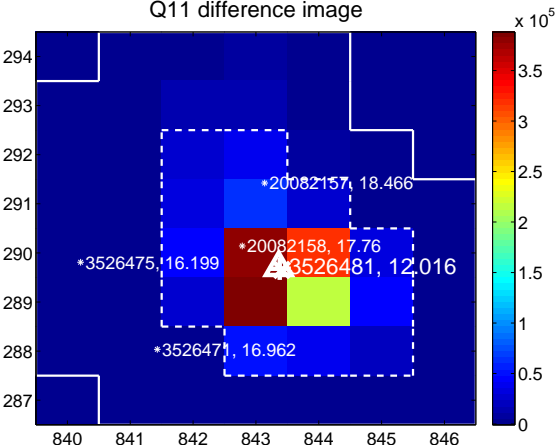
Q10 no difference image



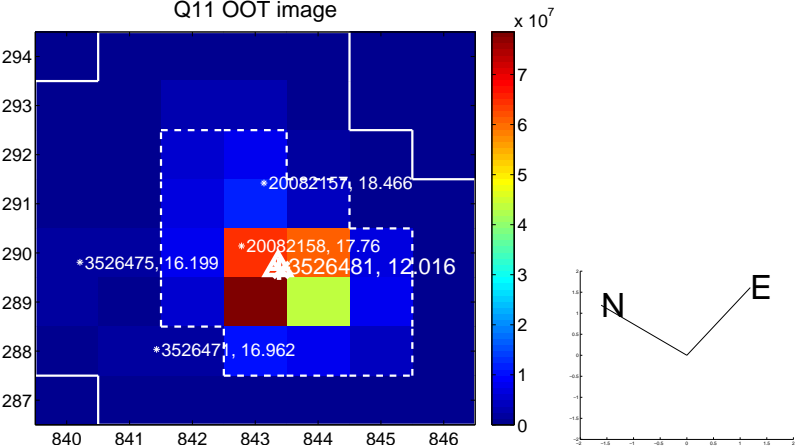
Q10 no OOT image



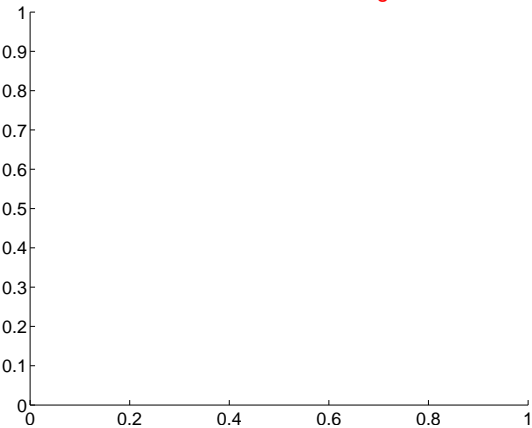
Q11 difference image



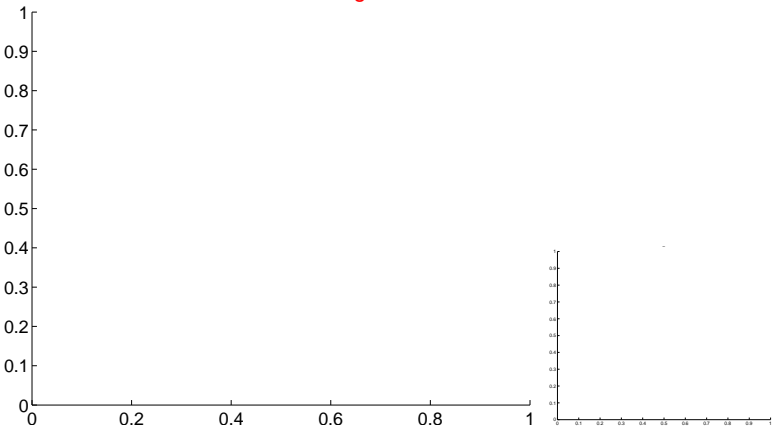
Q11 OOT image



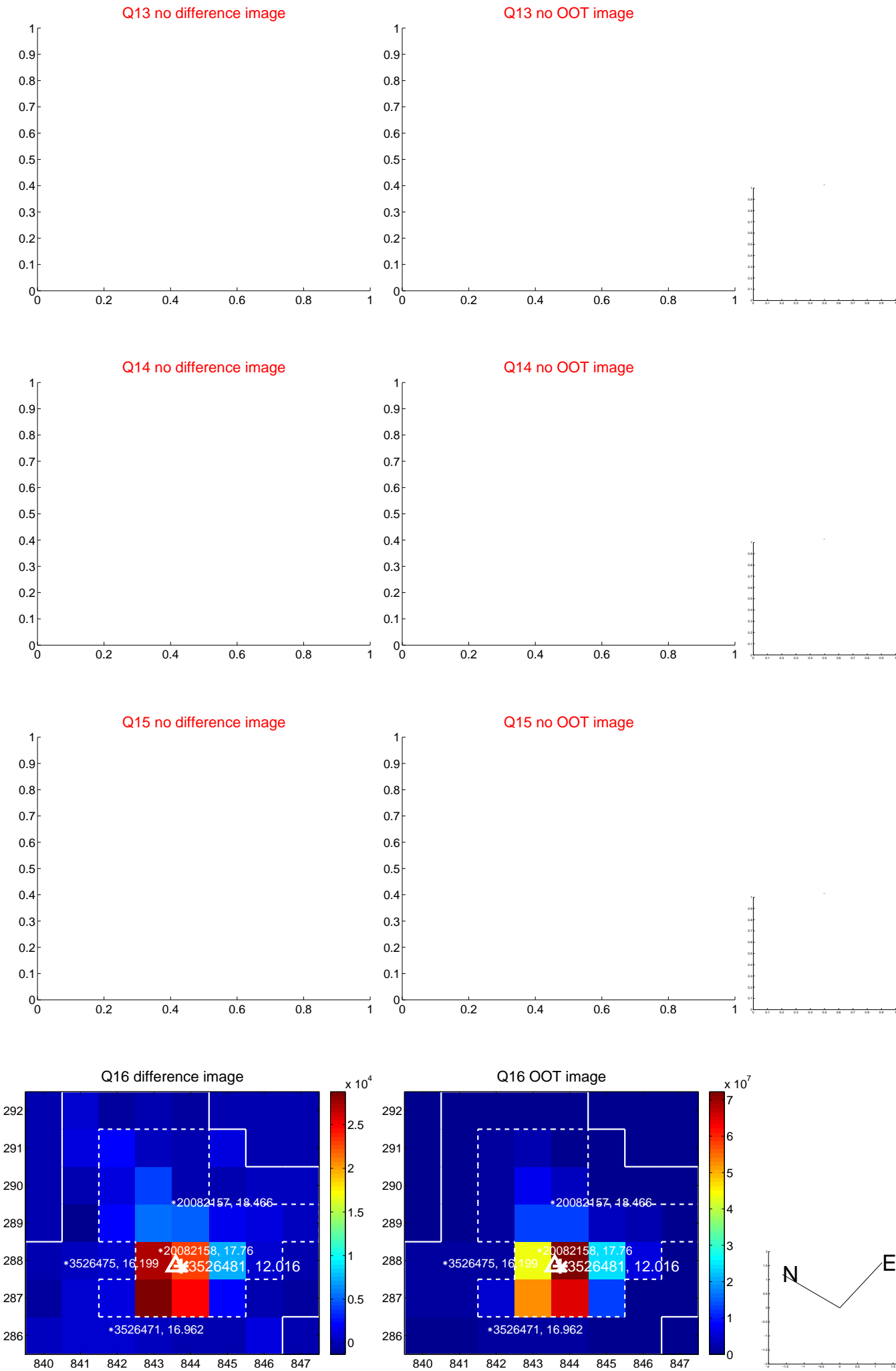
Q12 no difference image



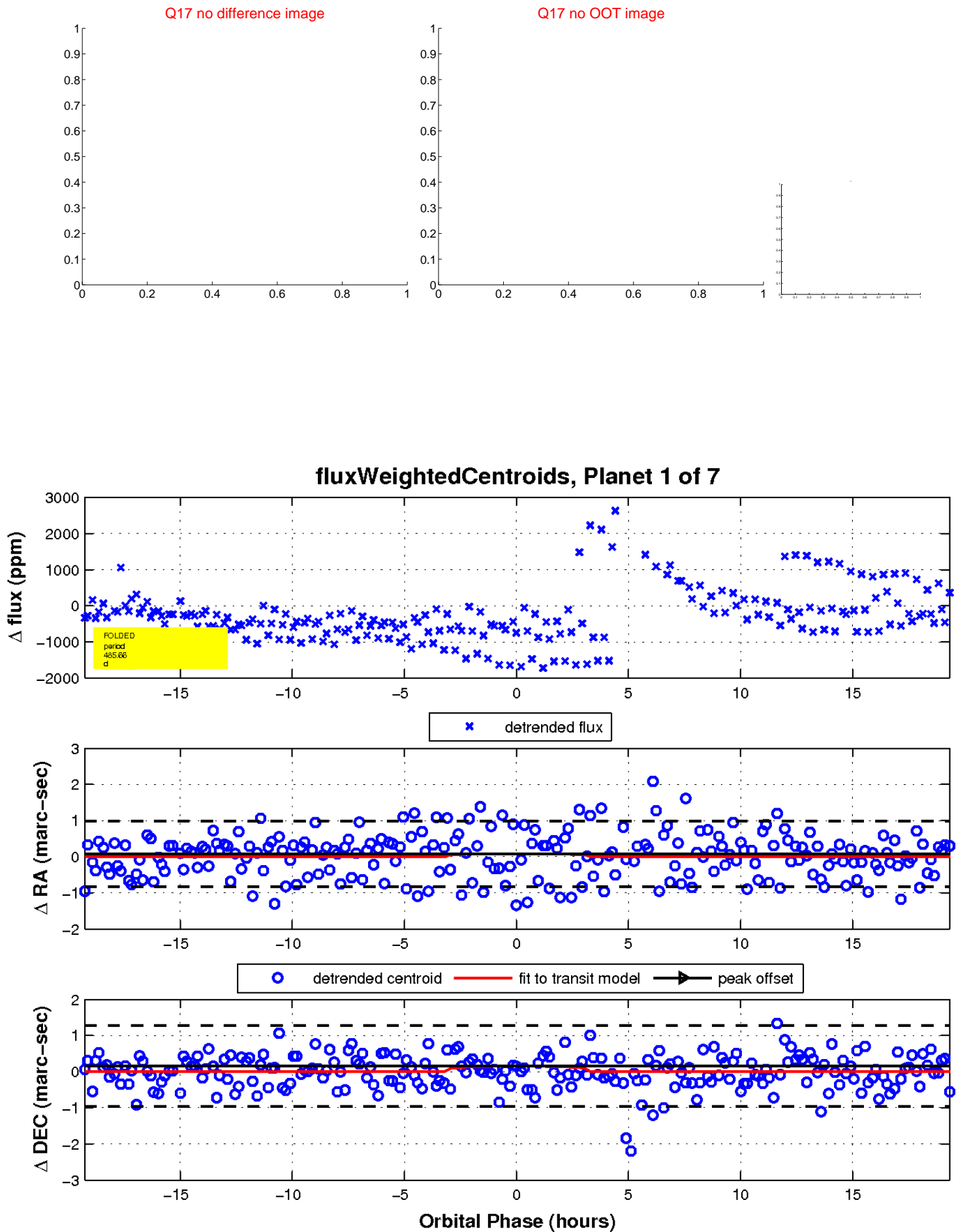
Q12 no OOT image



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

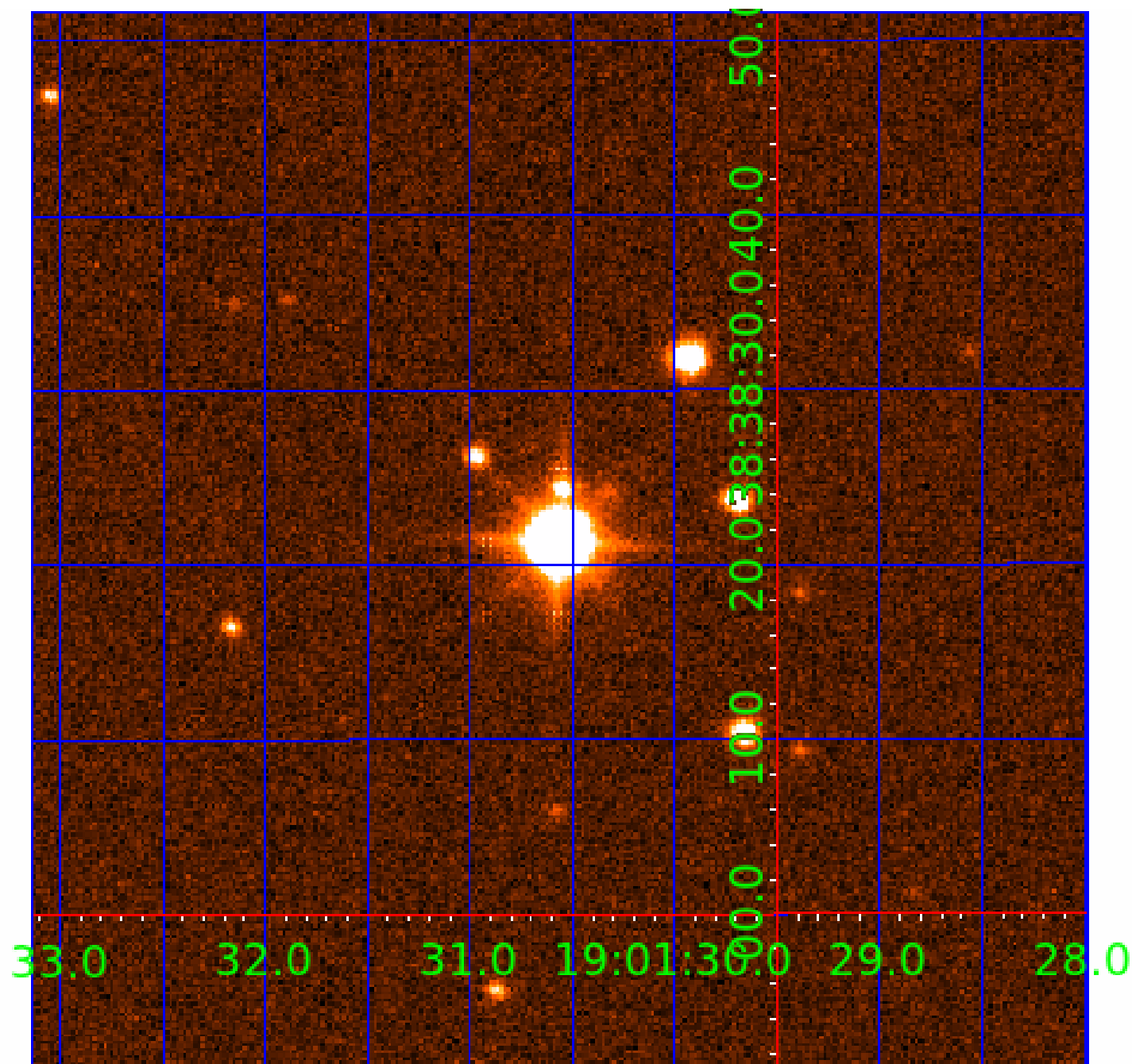


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003526481

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})
003526481-01	OBS	No	485.655832	531.340454	836.7	6.461	18.8	9.5	2.57	5687	7.55	3.40
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003526481-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
003526481-06	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
003526481-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—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.

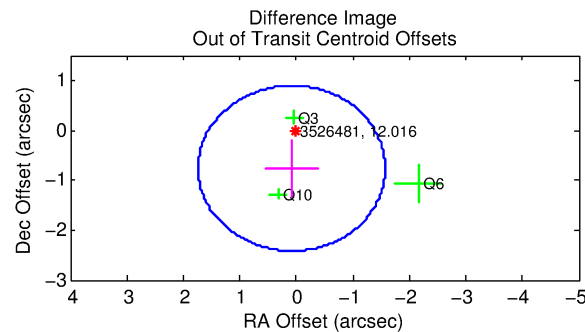
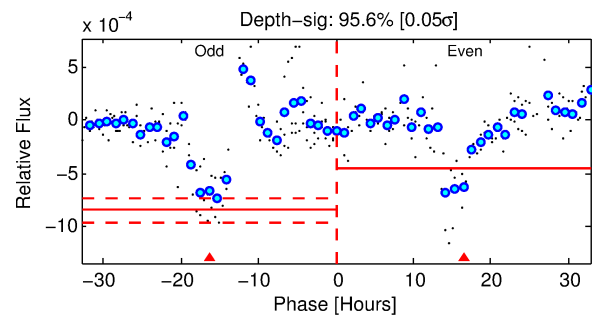
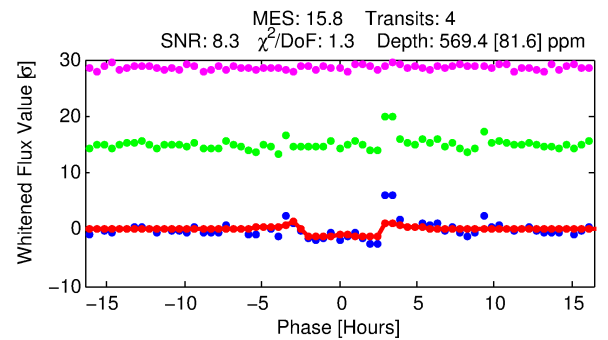
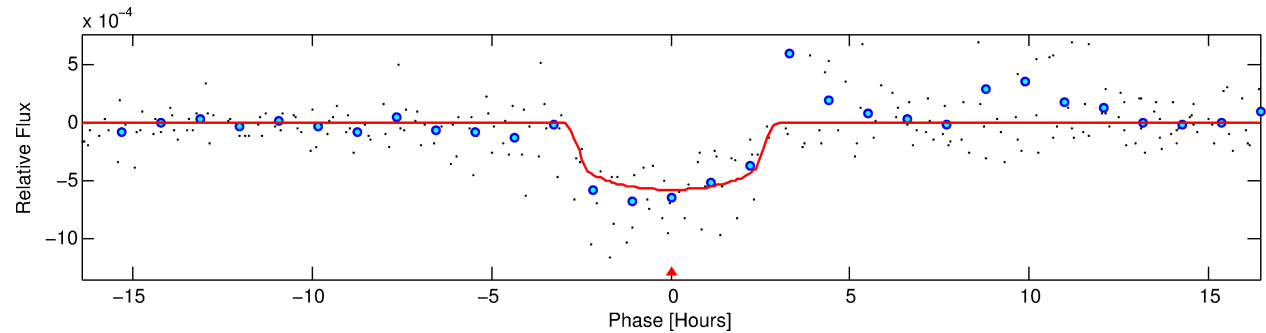
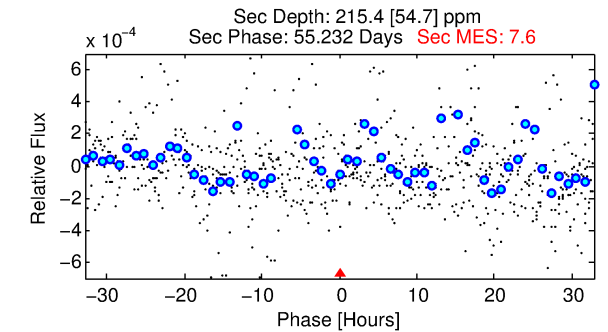
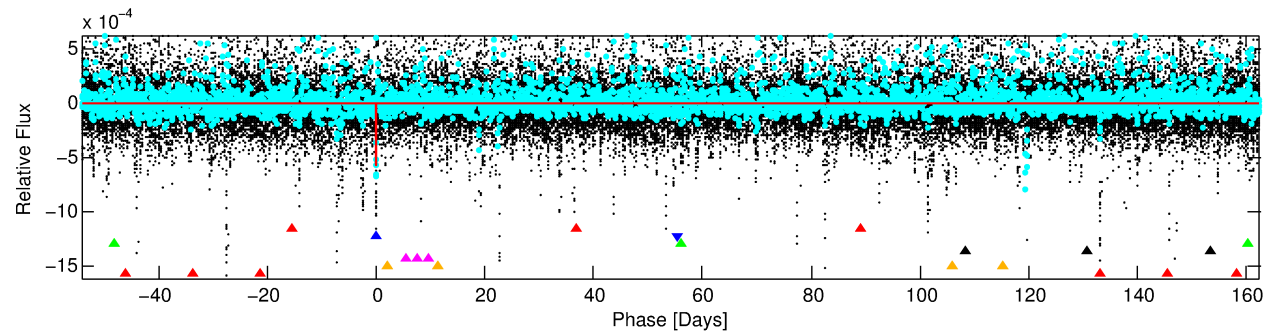
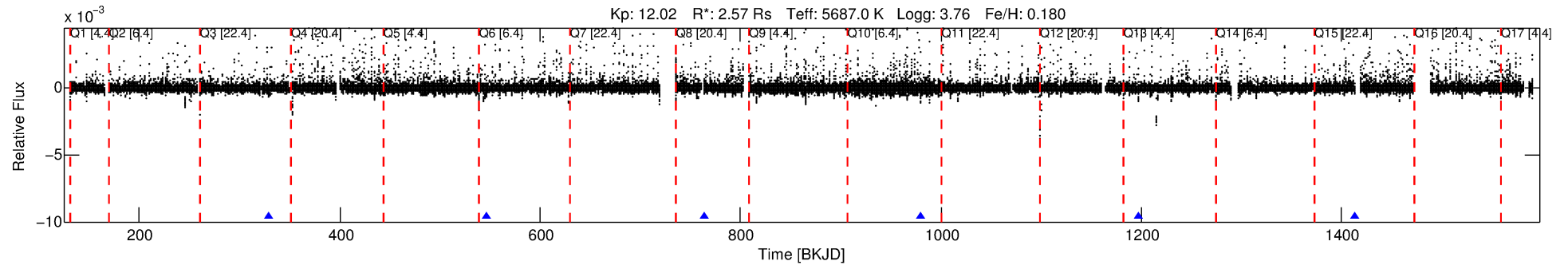
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003526481-02

No Significant Match Found

DV One-Page Summary

KIC: 3526481 Candidate: 2 of 7 Period: 216.710 d



DV Fit Results:

Period = 216.70956 [0.00217] d
Epoch = 329.9416 [0.0050] BKJD
Rp/R* = 0.0227 [0.0182]
a/R* = 251.16 [836.76]
b = 0.60 [3.64]
Seff = 9.99 [9.80]
Teq = 453 [111] K
Rp = 6.37 [6.26] Re
a = 0.7879 [0.4630] AU
Ag = 1812.79 [3429.19] [0.53 σ]
Teffp = 4573 [1859] K [2.21 σ]

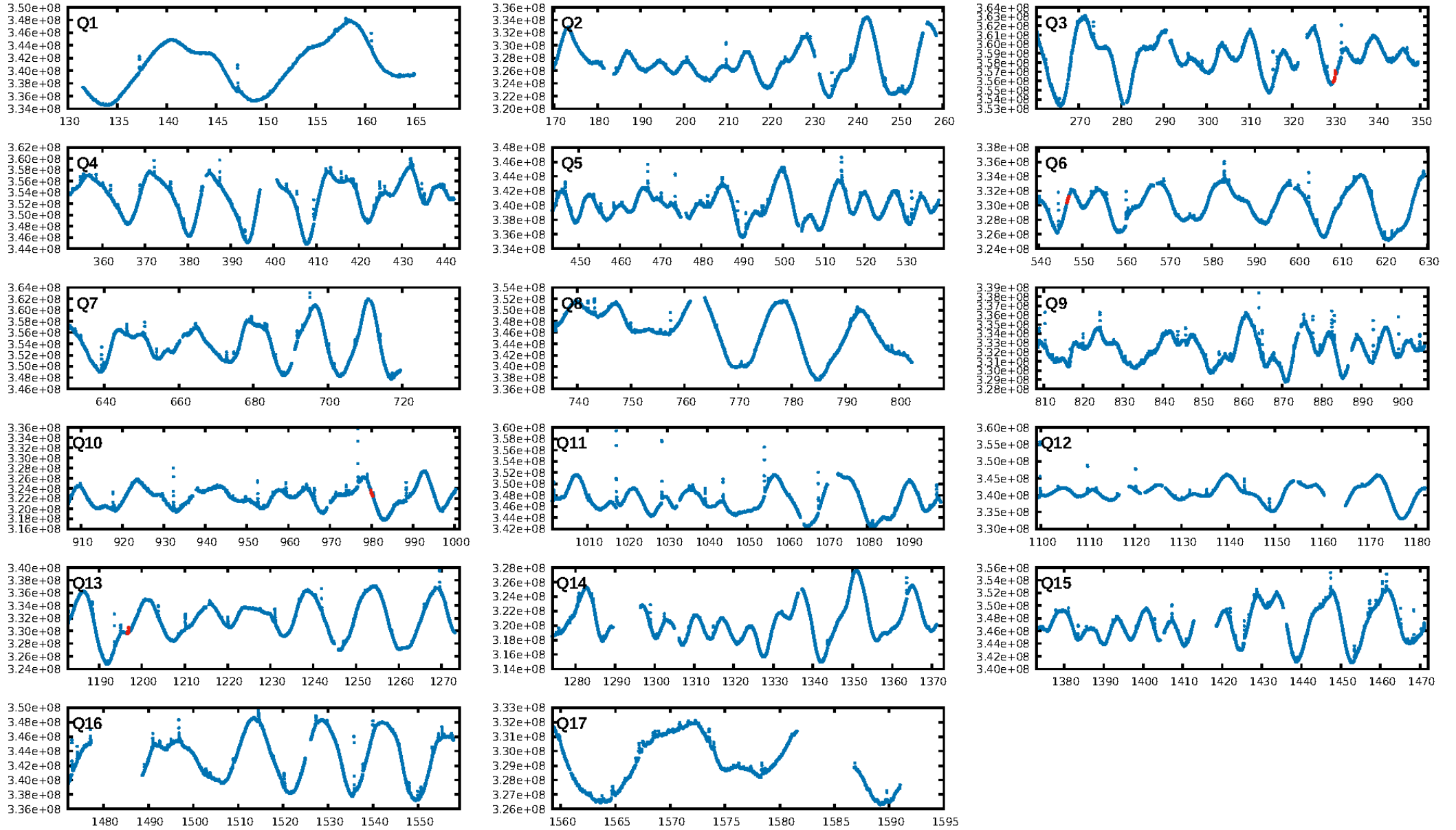
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [47.86 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 38.1%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 12.36
Centroid-sig: 7.0%
Centroid-so: 0.510 arcsec [1.03 σ]
OotOffset-rm: 0.768 arcsec [1.39 σ]
OotOffset-st: 2/1/0/0 [3]
KicOffset-rm: 0.689 arcsec [1.18 σ]
KicOffset-st: 2/1/0/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

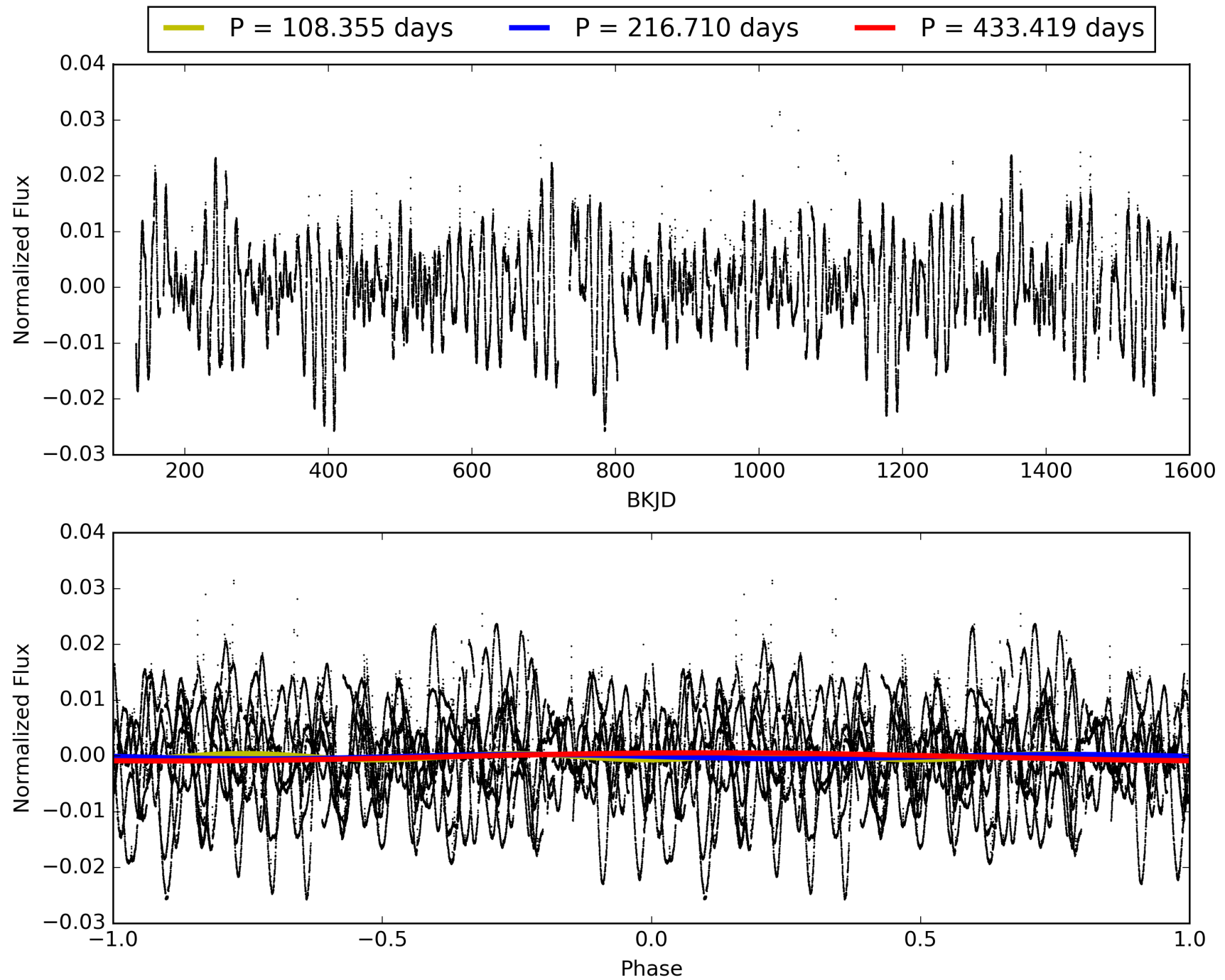
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 003526481-02, PDC Light Curves

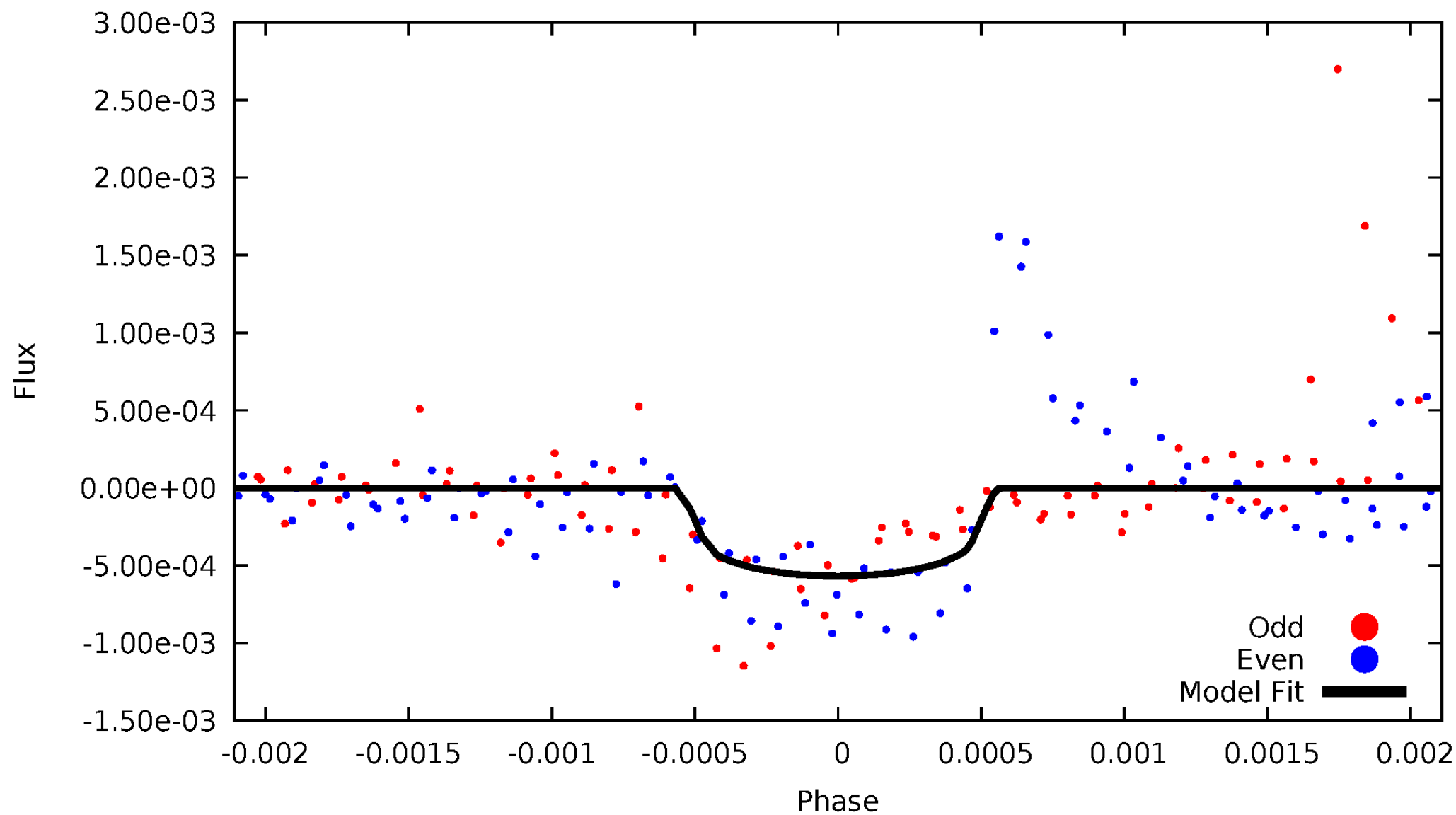


TCE 003526481-02



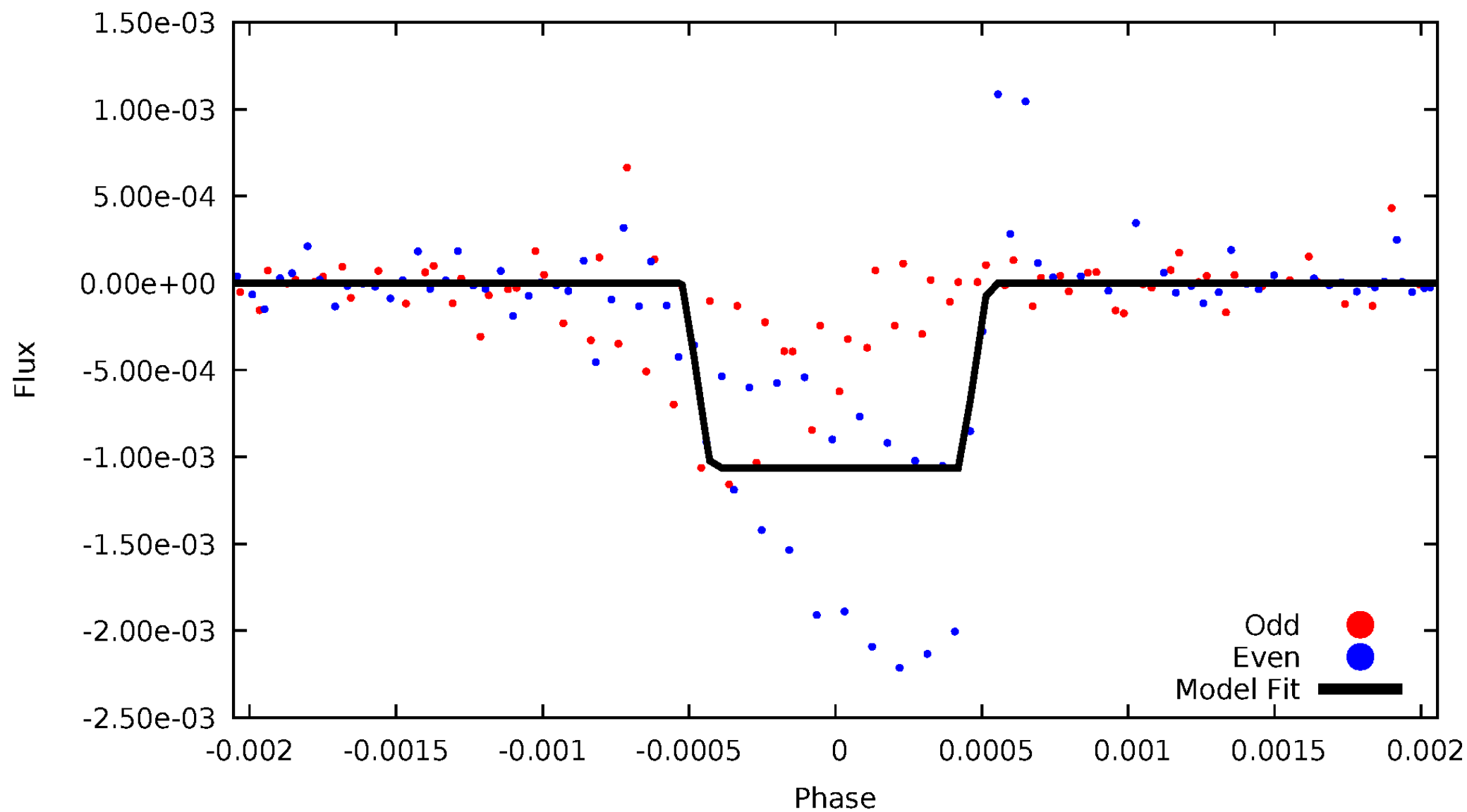
DV Odd/Even

TCE 003526481-02



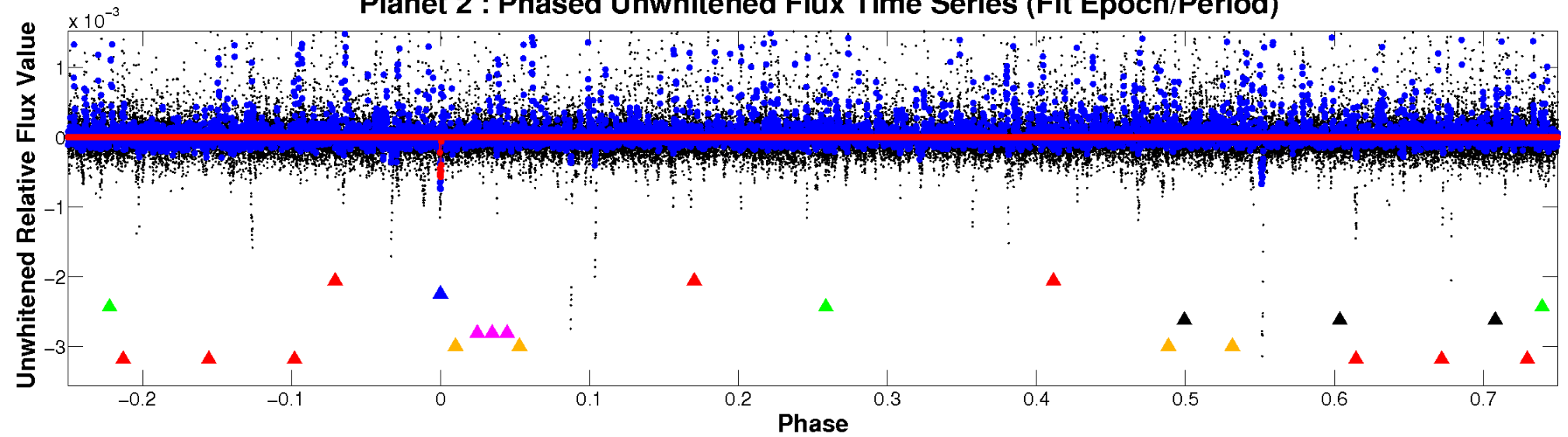
ALT Odd/Even

TCE 003526481-02

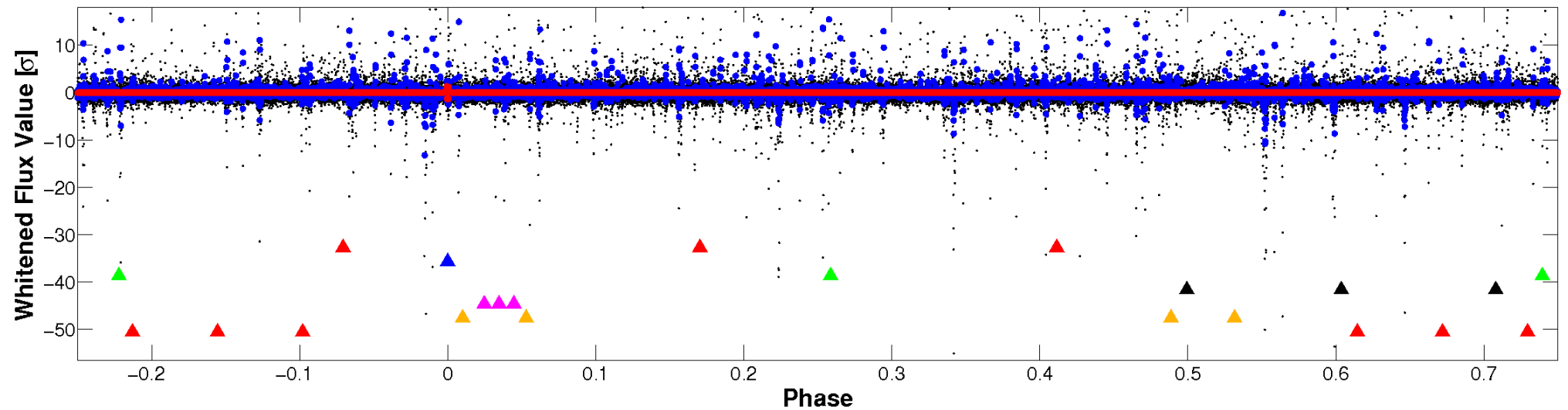


Non-Whitened Vs. Whitened Light Curve

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

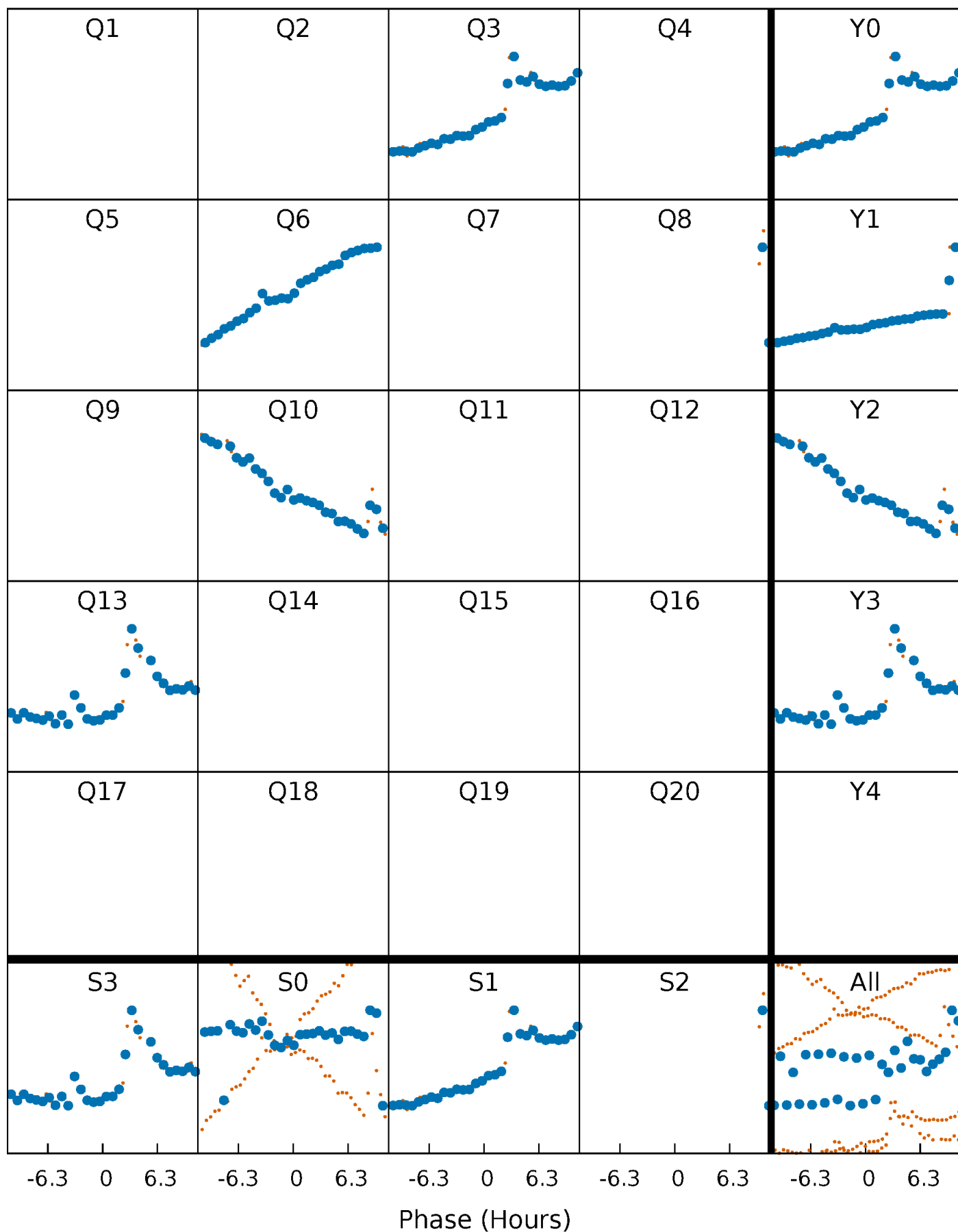


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



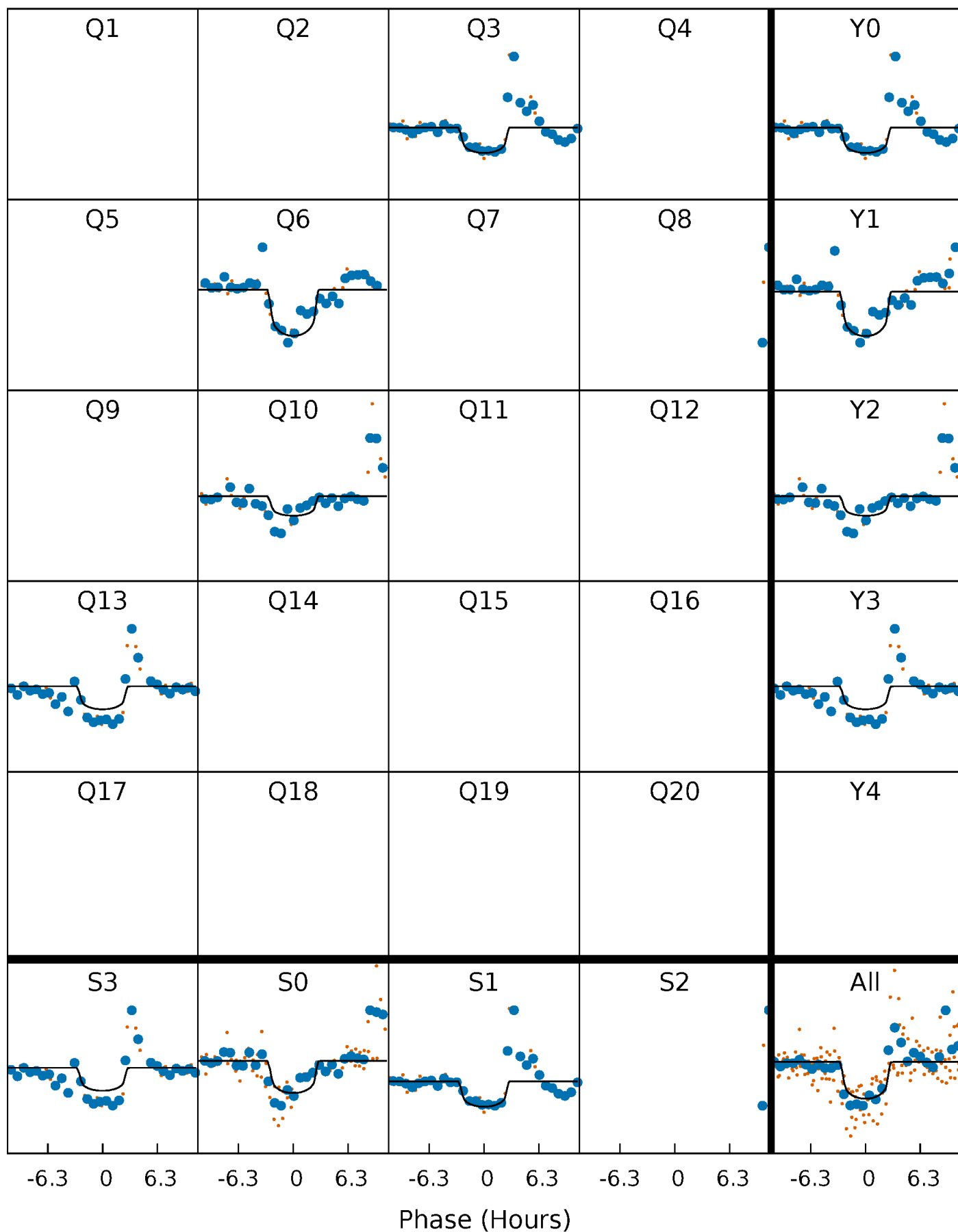
PDC Quarter-Phased Transit Curves

TCE 003526481-02 P=216.709560 Days $T_0=329.941622$ (BKJD)



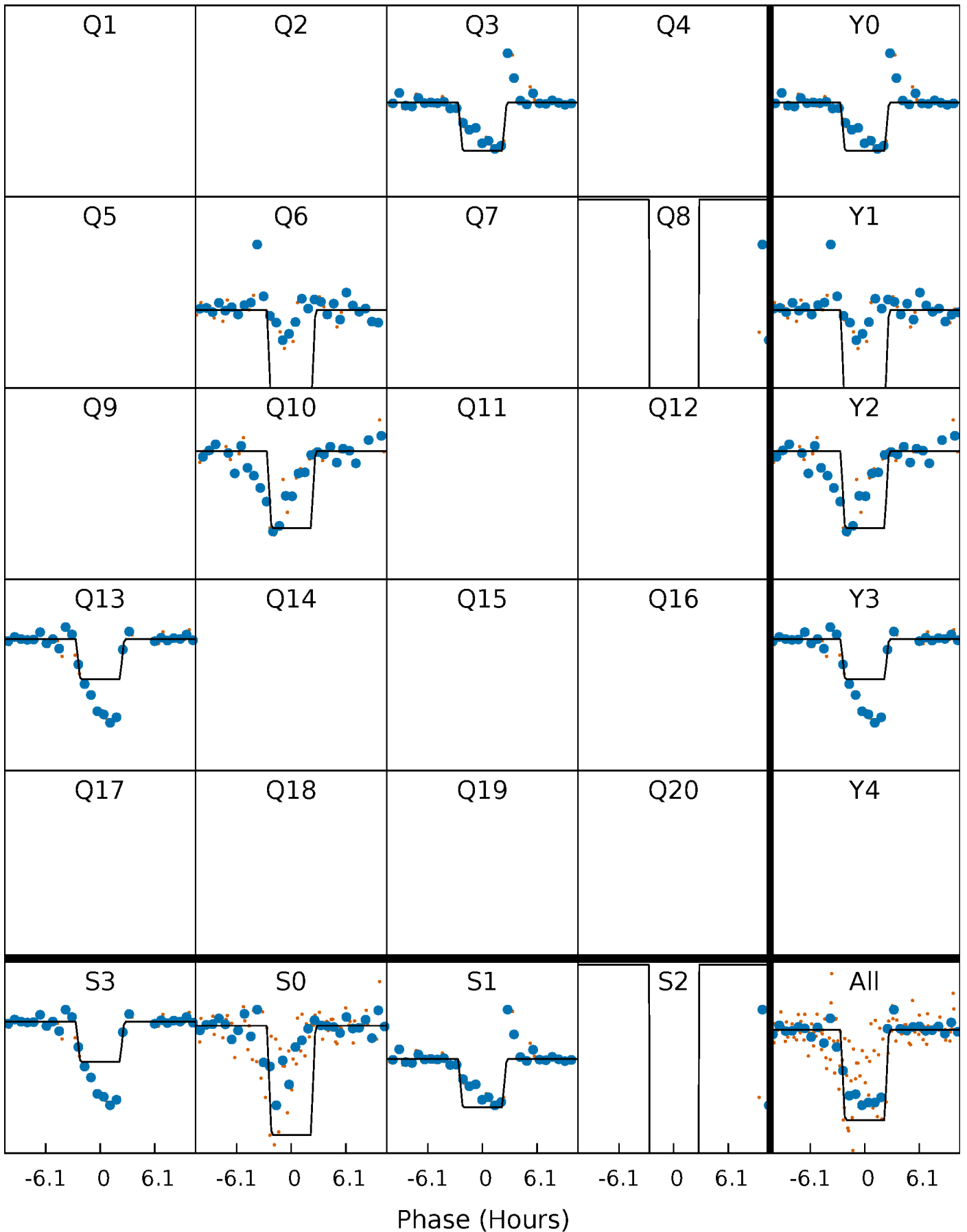
DV Quarter-Phased Transit Curves

TCE 003526481-02 P=216.709560 Days $T_0=329.941622$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

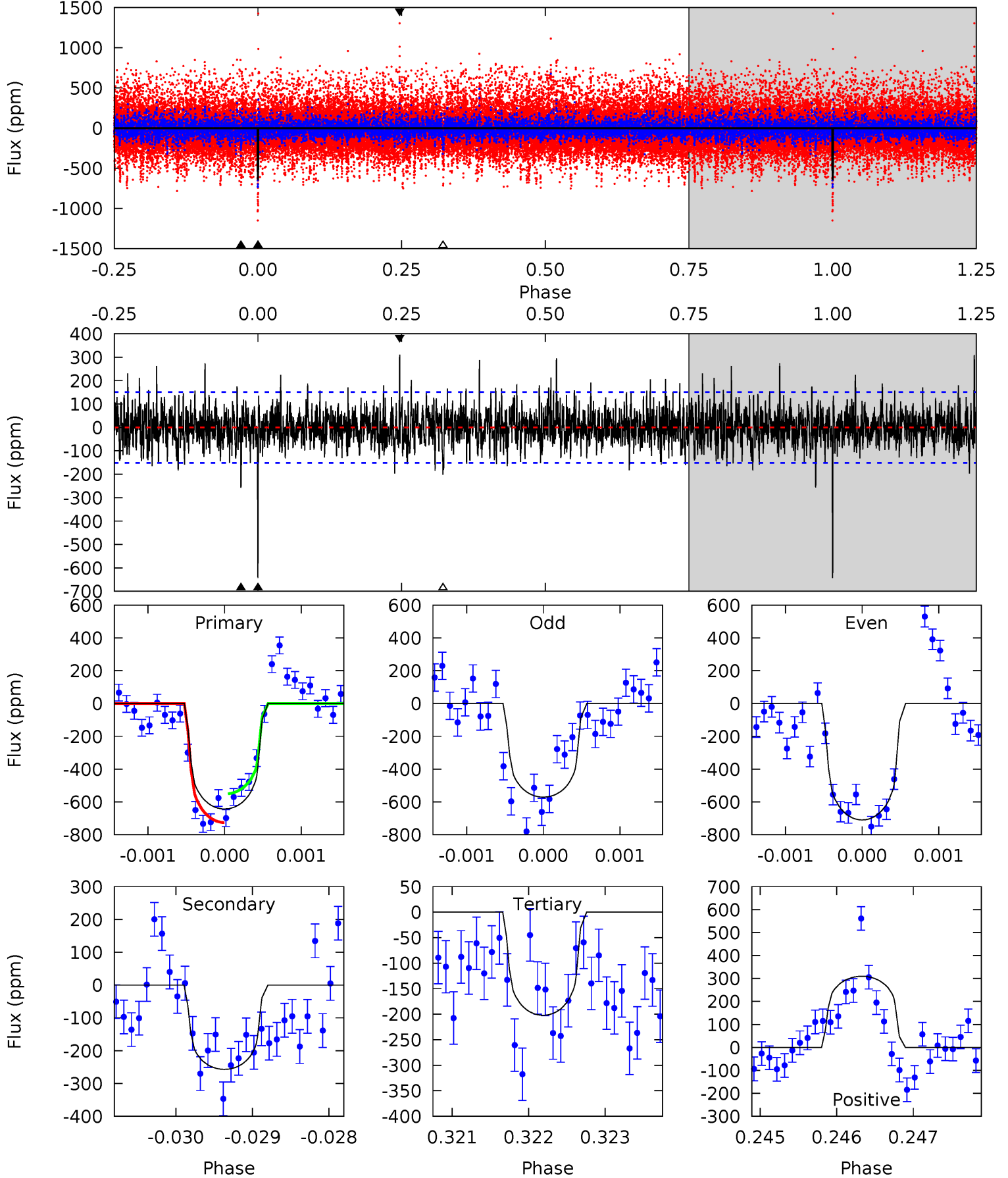
TCE 003526481-02 P=216.711526 Days $T_0=329.943164$ (BKJD)



DV Model-Shift Uniqueness Test

003526481-02, P = 216.709560 Days, E = 113.232062 Days

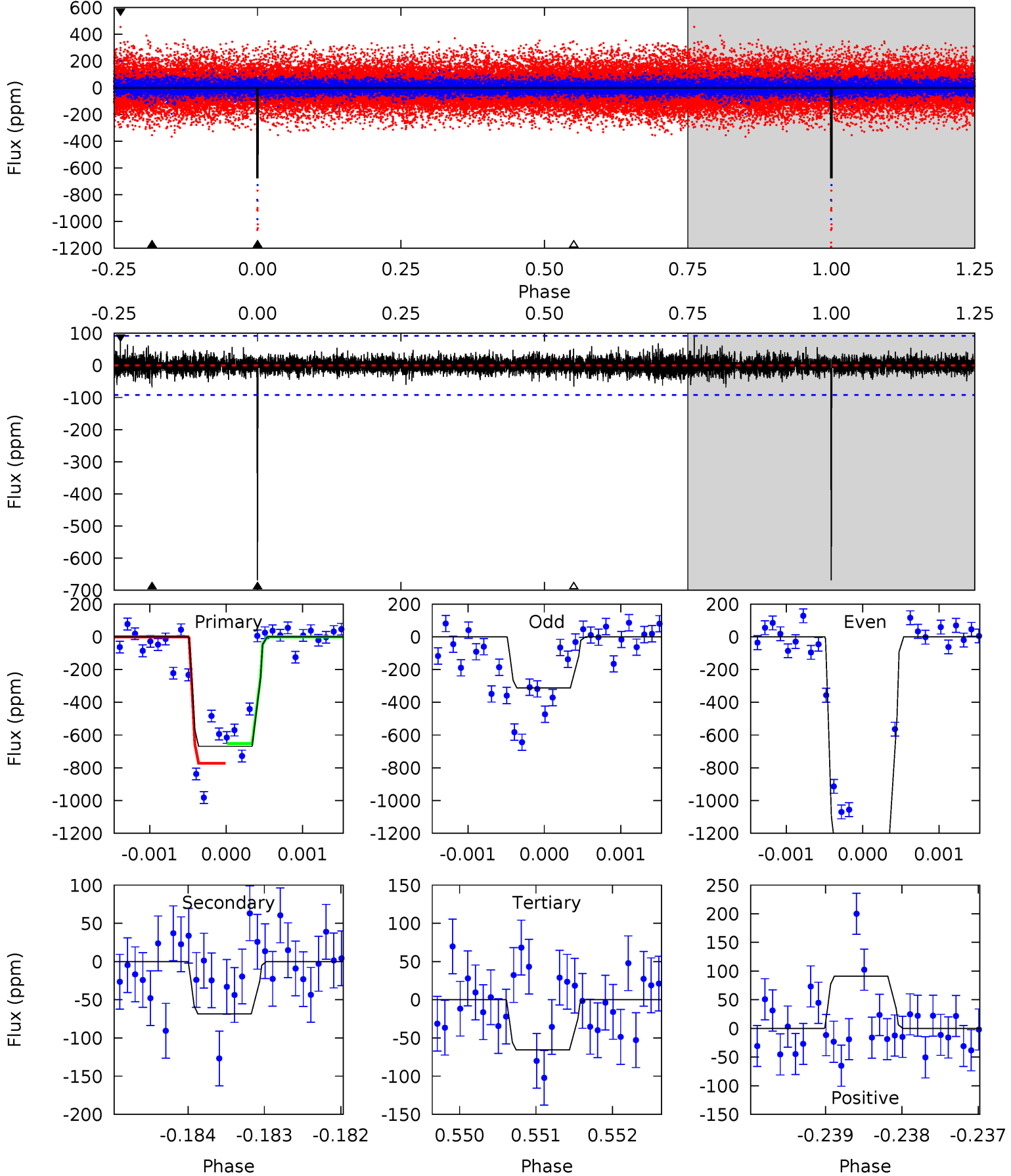
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.1	9.24	7.27	11.1	5.44	3.27	2.21	15.9	12.0	1.97	-1.89	2.35	1.08	0.32	3.18



Alt Model-Shift Uniqueness Test

003526481-02, P = 216.711526 Days, E = 113.231638 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
39.6	4.05	3.87	5.38	5.44	3.27	0.88	35.7	34.2	0.18	-1.33	34.5	1.17	0.12	3.47



Stellar Parameters For KIC 003526481

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5687^{+170}_{-153}	$3.760^{+0.584}_{-0.146}$	$0.180^{+0.200}_{-0.300}$	$2.572^{+0.628}_{-1.466}$	$1.387^{+0.134}_{-0.402}$	$0.115^{+0.870}_{-0.045}$
	+3%/-3%	+16%/-4%	+111%/-167%	+24%/-57%	+10%/-29%	+758%/-40%
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 003526481-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-257 ± 28	$5.98^{+5.26}_{-3.85}$	618^{+52}_{-89}	4716^{+2618}_{-870}	2394^{+15228}_{-1705}
Alt.	-68 ± 17	$8.19^{+5.60}_{-4.26}$	619^{+54}_{-90}	3351^{+844}_{-418}	344^{+1067}_{-236}

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 $A_{obs} \gg 1.0$

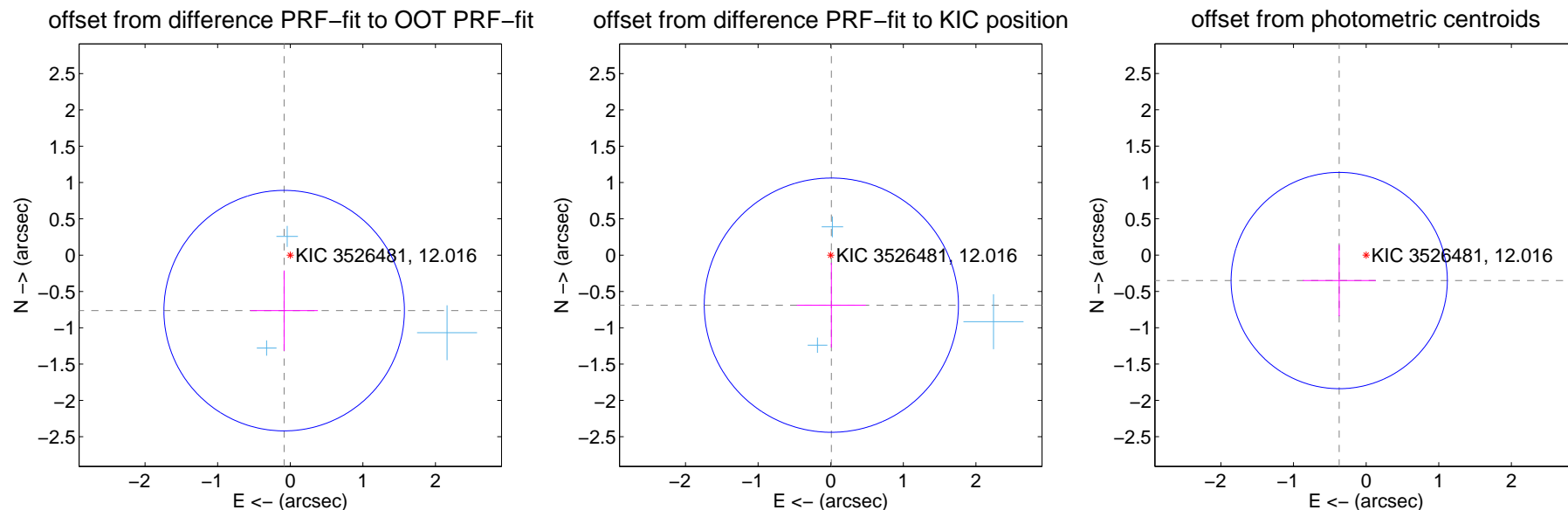
DV Centroid Data

Supplemental centroid analysis for 003526481-02. Kepler magnitude: 12.02. Transit SNR 8.32

There are 3 quarters with good PRF difference image offsets

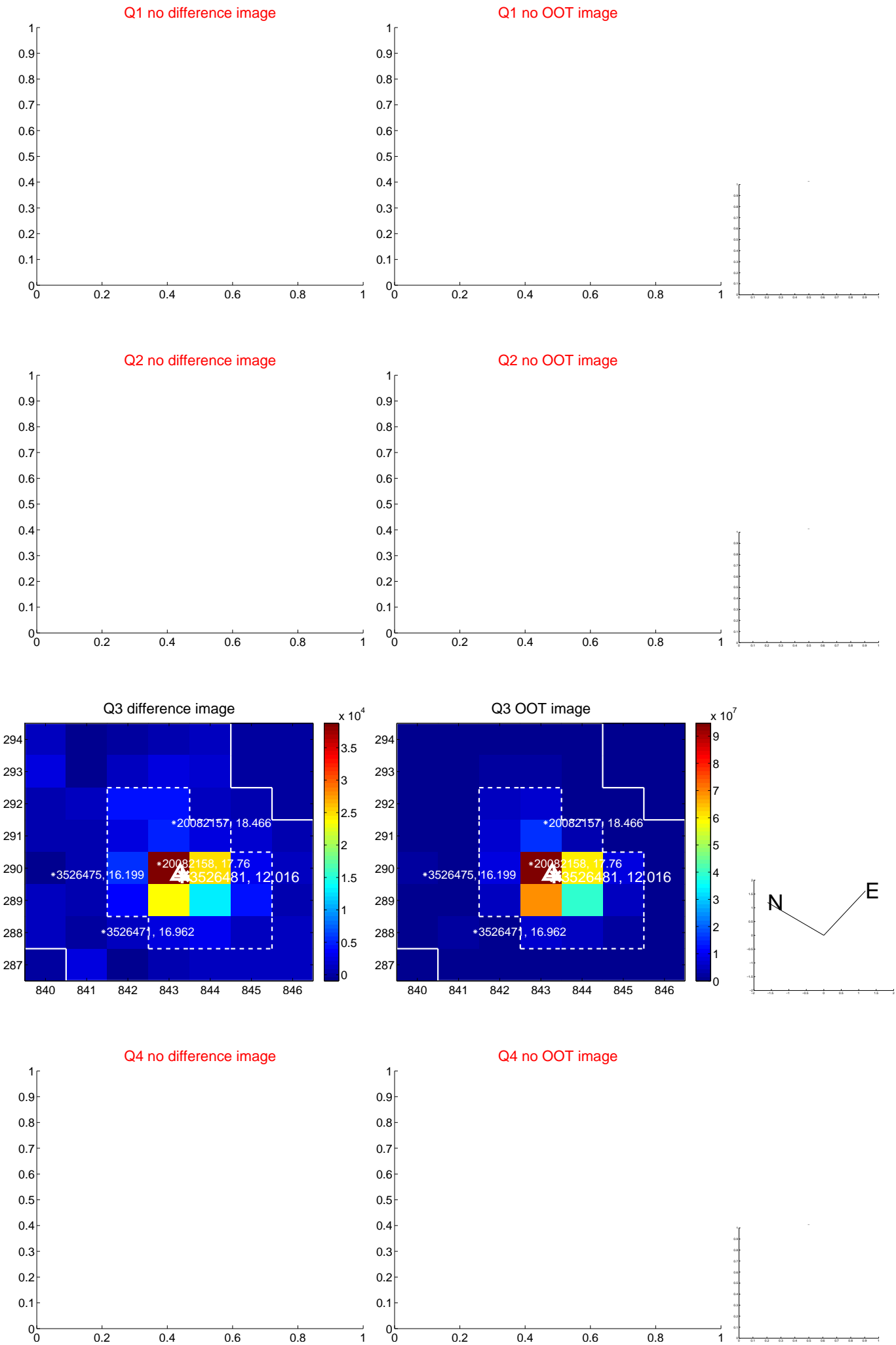
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.768 ± 0.552	1.39	0.084 ± 0.464	-0.764 ± 0.553
PRF-fit source offset from KIC position	0.689 ± 0.583	1.18	-0.009 ± 0.475	-0.689 ± 0.583
photometric centroid source offset	0.51 ± 0.50	1.03	0.37 ± 0.50	-0.35 ± 0.49

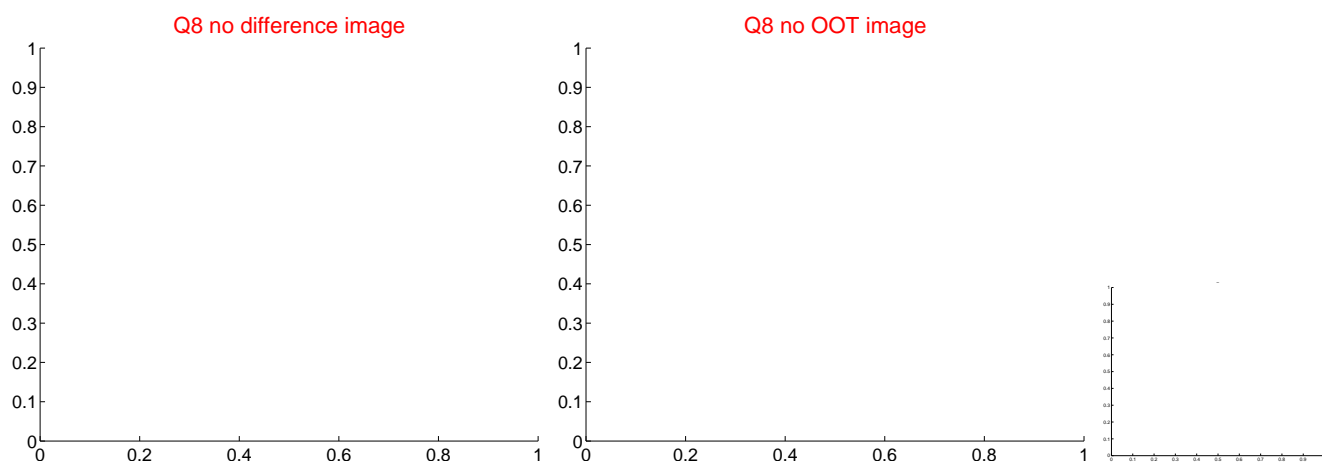
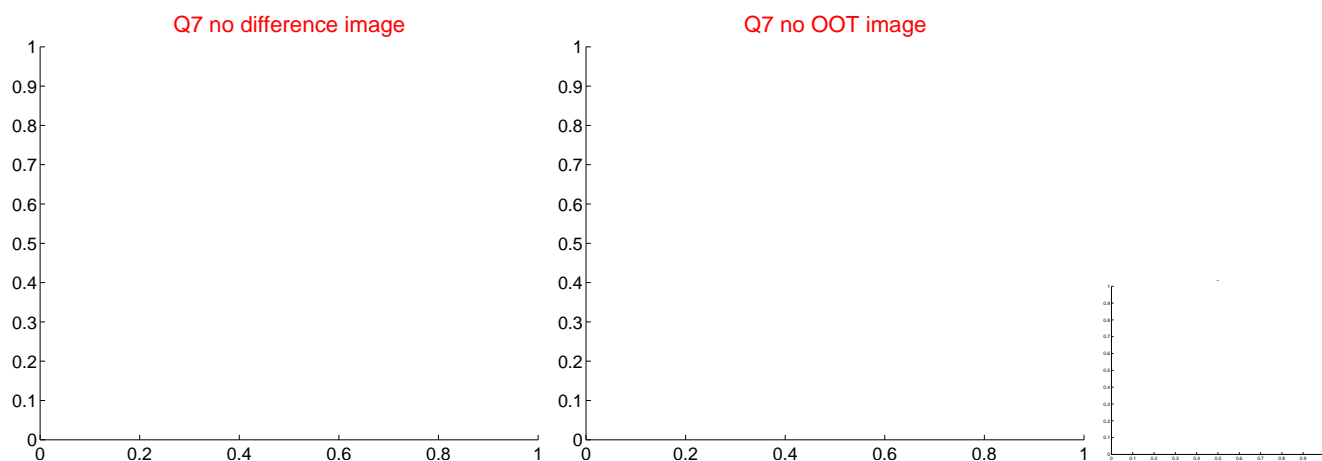
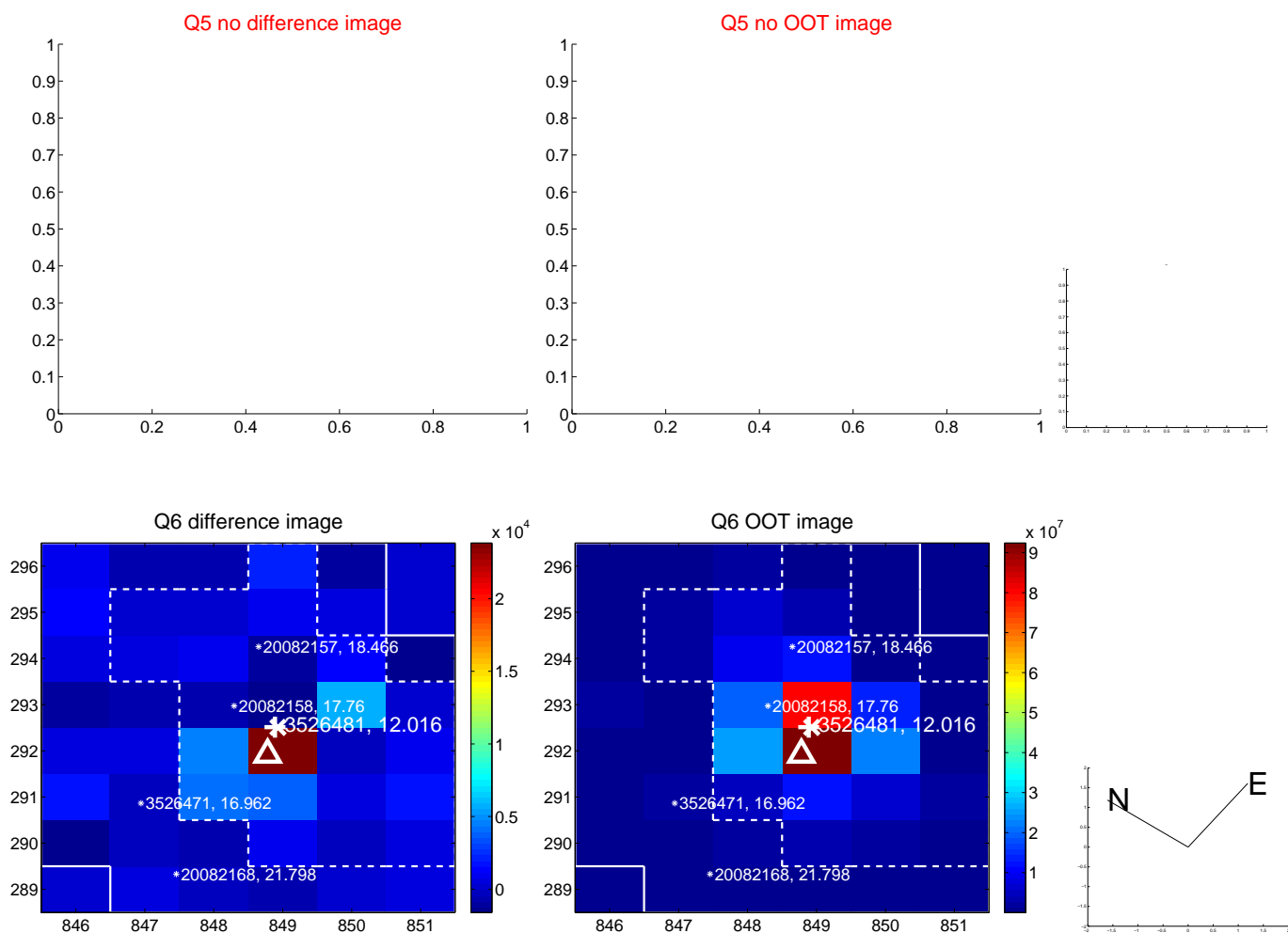


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

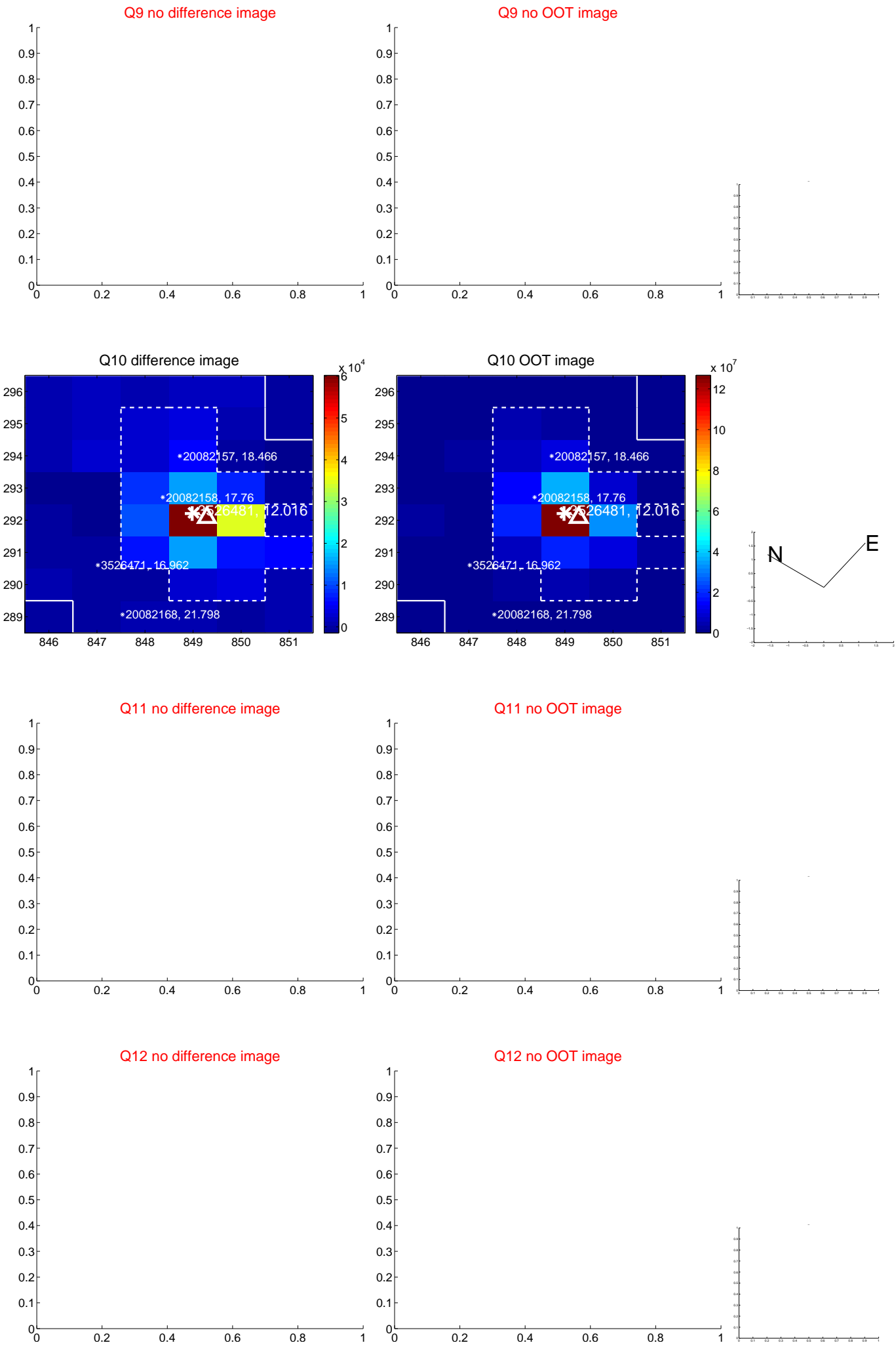
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



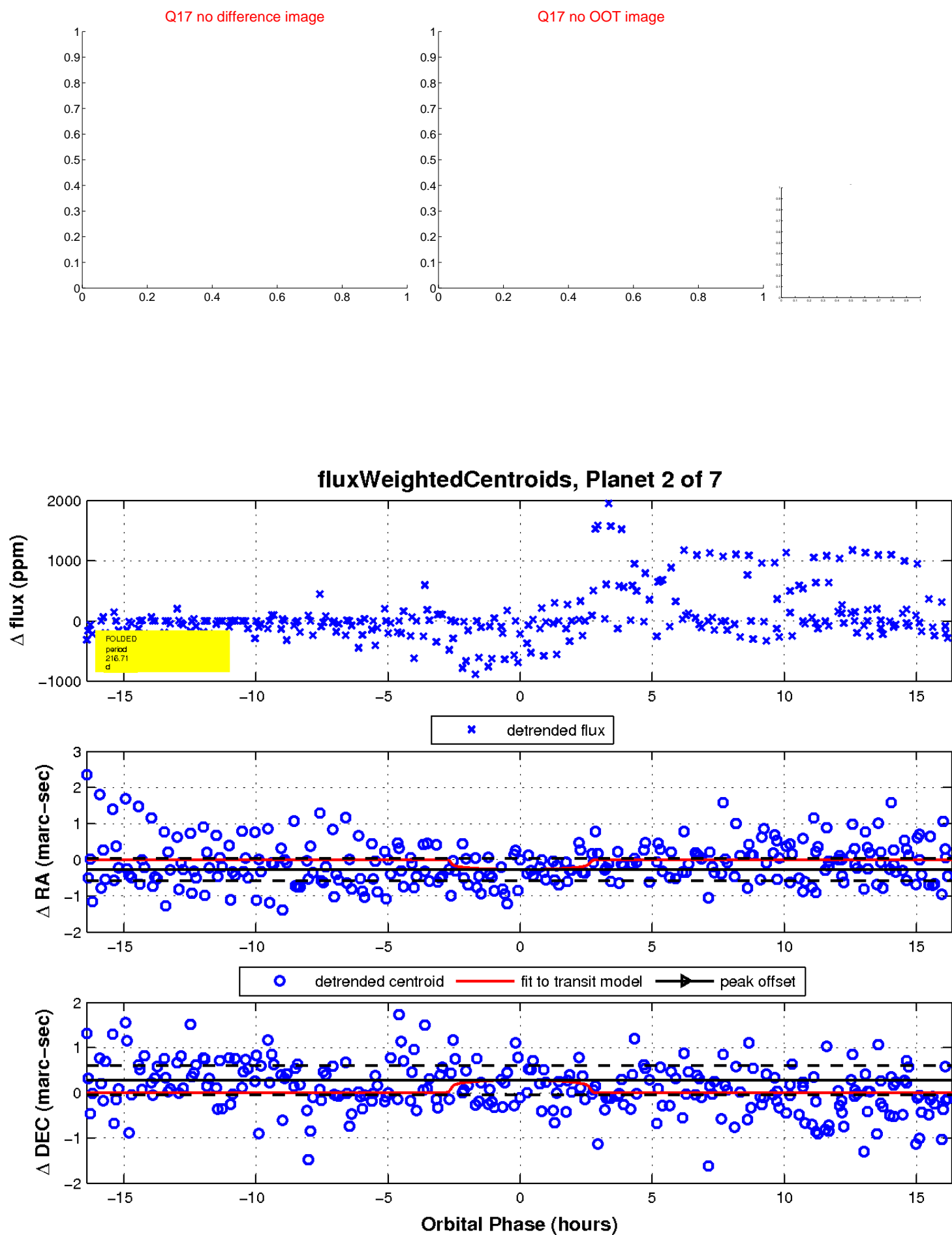
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

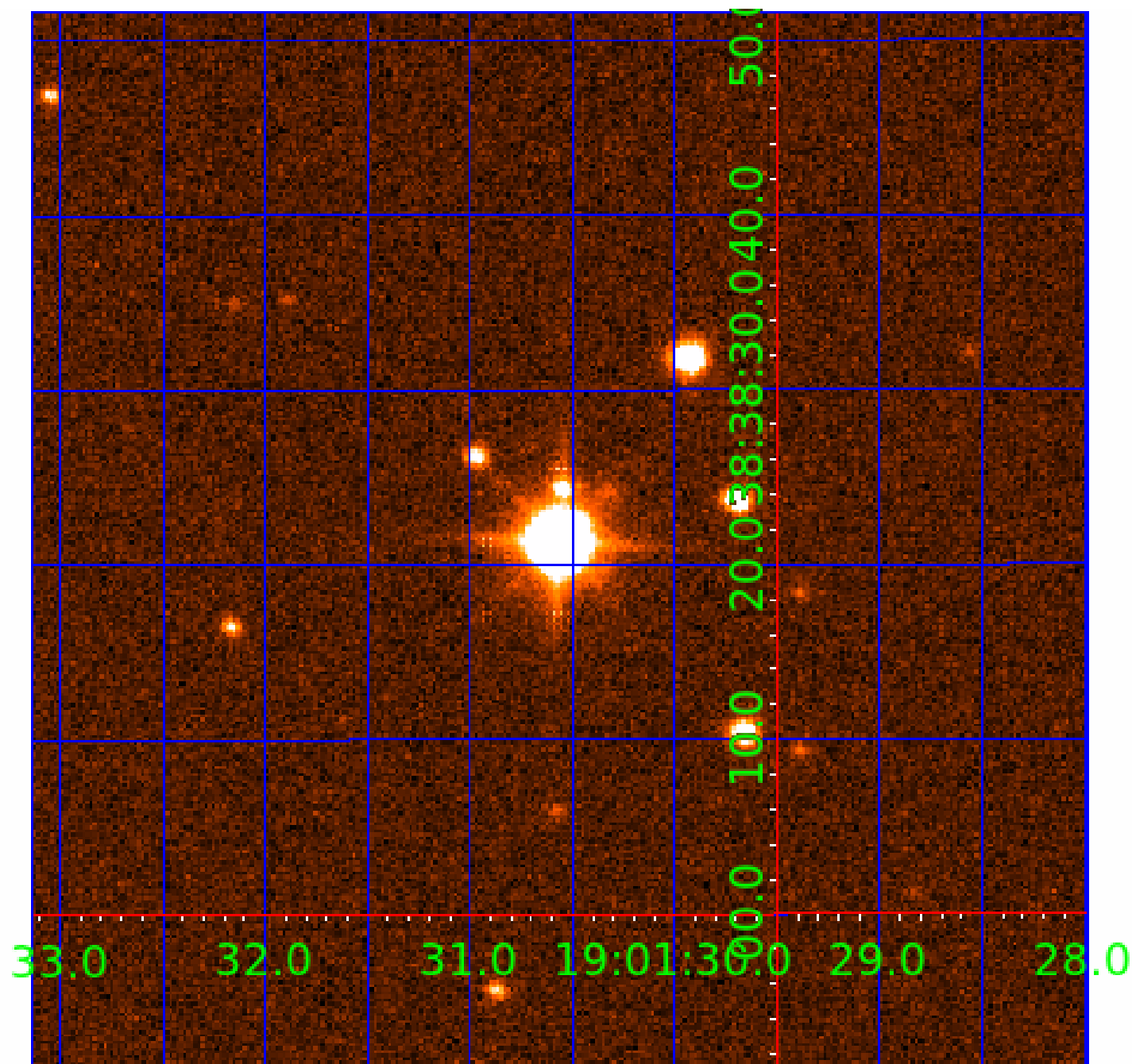


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003526481

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})
003526481-01	OBS	No	485.655832	531.340454	836.7	6.461	18.8	9.5	2.57	5687	7.55	3.40
003526481-02	OBS	No	216.709560	329.941623	569.4	5.482	15.8	8.3	2.57	5687	6.37	9.99
003526481-03	OBS	No	537.615779	498.514962	739.6	10.436	13.9	6.6	2.57	5687	12.71	2.97
003526481-04	OBS	No	672.740070	221.443925	413.0	9.031	13.5	5.0	2.57	5687	5.94	2.21
003526481-05	OBS	No	435.580175	552.016674	588.3	5.323	12.6	7.7	2.57	5687	7.00	3.94
003526481-06	OBS	No	329.712428	435.836924	563.2	17.565	11.6	7.0	2.57	5687	6.26	5.71
003526481-07	OBS	No	229.171012	246.407054	308.8	3.000	11.8	-1.0	2.57	5687	4.46	9.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003526481-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
003526481-06	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
003526481-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—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.

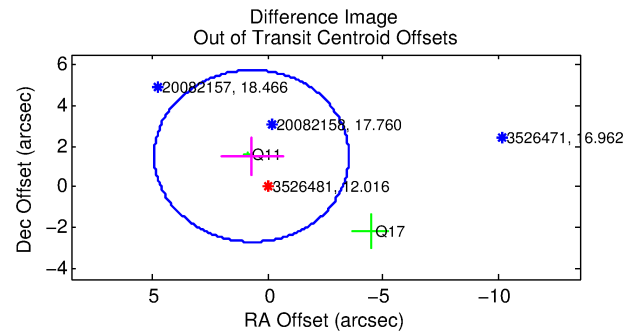
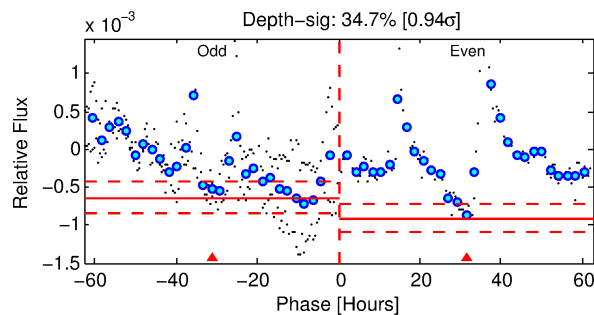
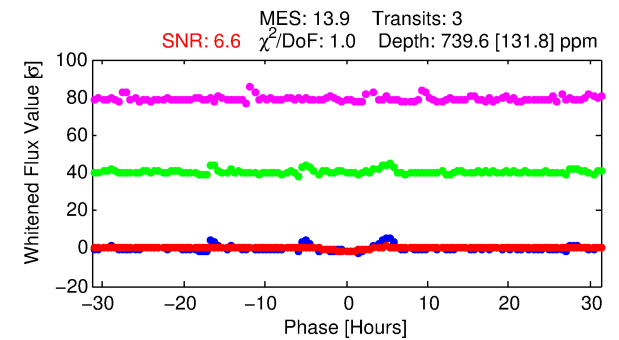
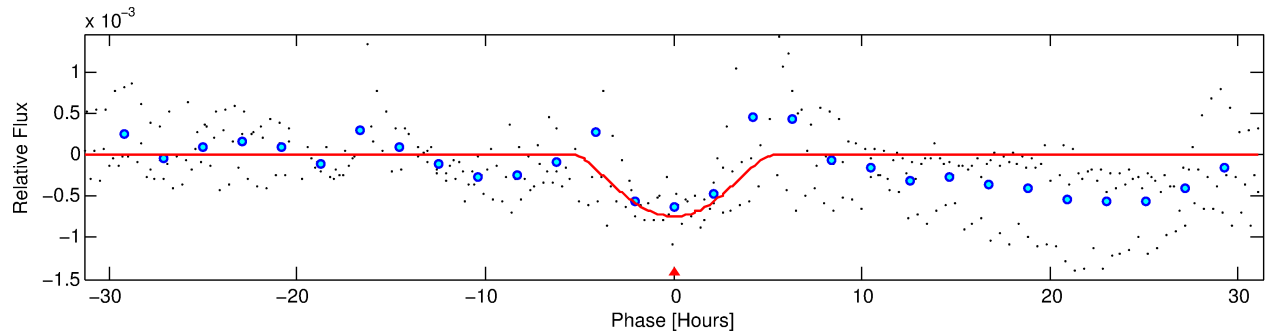
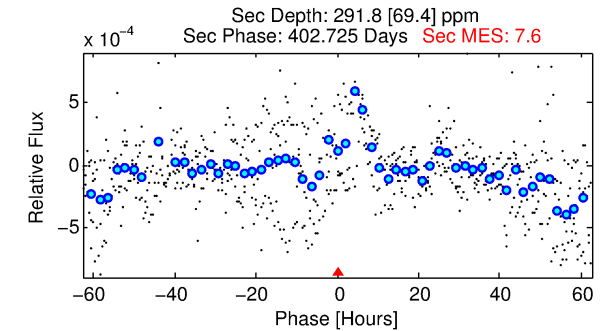
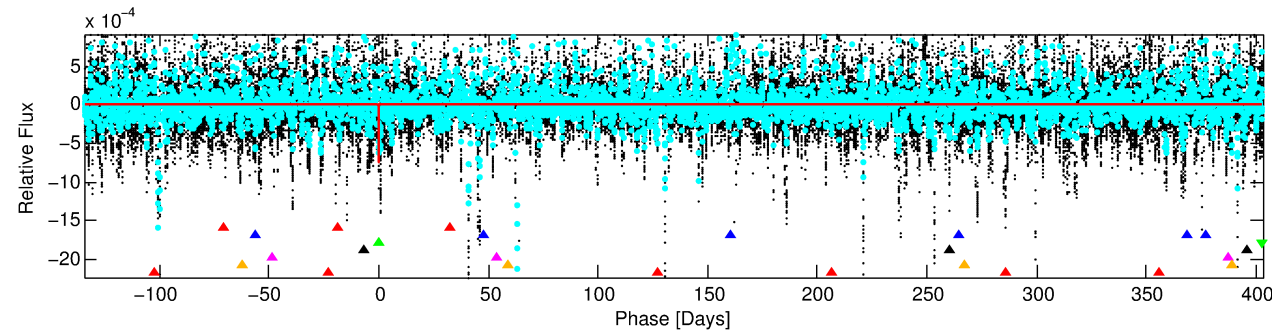
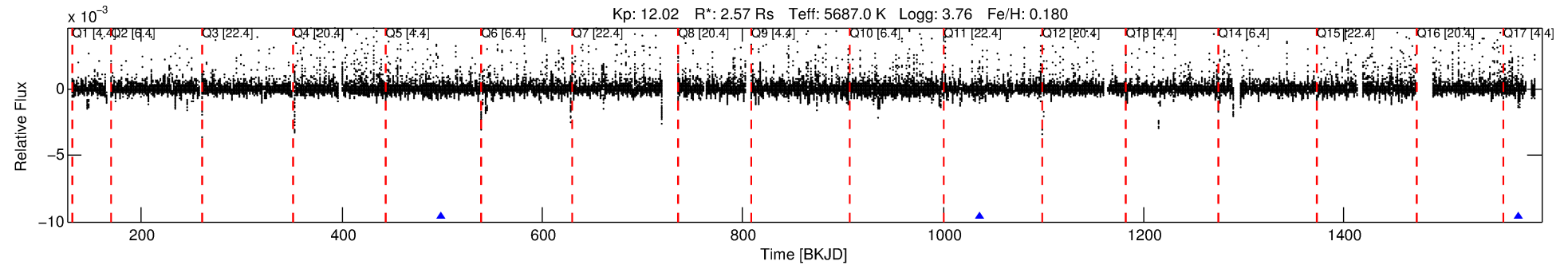
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003526481-03

No Significant Match Found

DV One-Page Summary

KIC: 3526481 Candidate: 3 of 7 Period: 537.616 d



DV Fit Results:

Period = 537.61578 [0.01826] d
Epoch = 498.5150 [0.0239] BKJD
Rp/R* = 0.0453 [0.0772]
a/R* = 127.84 [58.91]
b = 0.99 [0.12]
Seff = 2.97 [2.92]
Teq = 335 [82] K
Rp = 12.71 [22.84] Re
a = 1.4439 [0.8485] AU
Ag = 2070.46 [7353.66] [0.28 σ]
Teffp = 3492 [2984] K [1.06 σ]

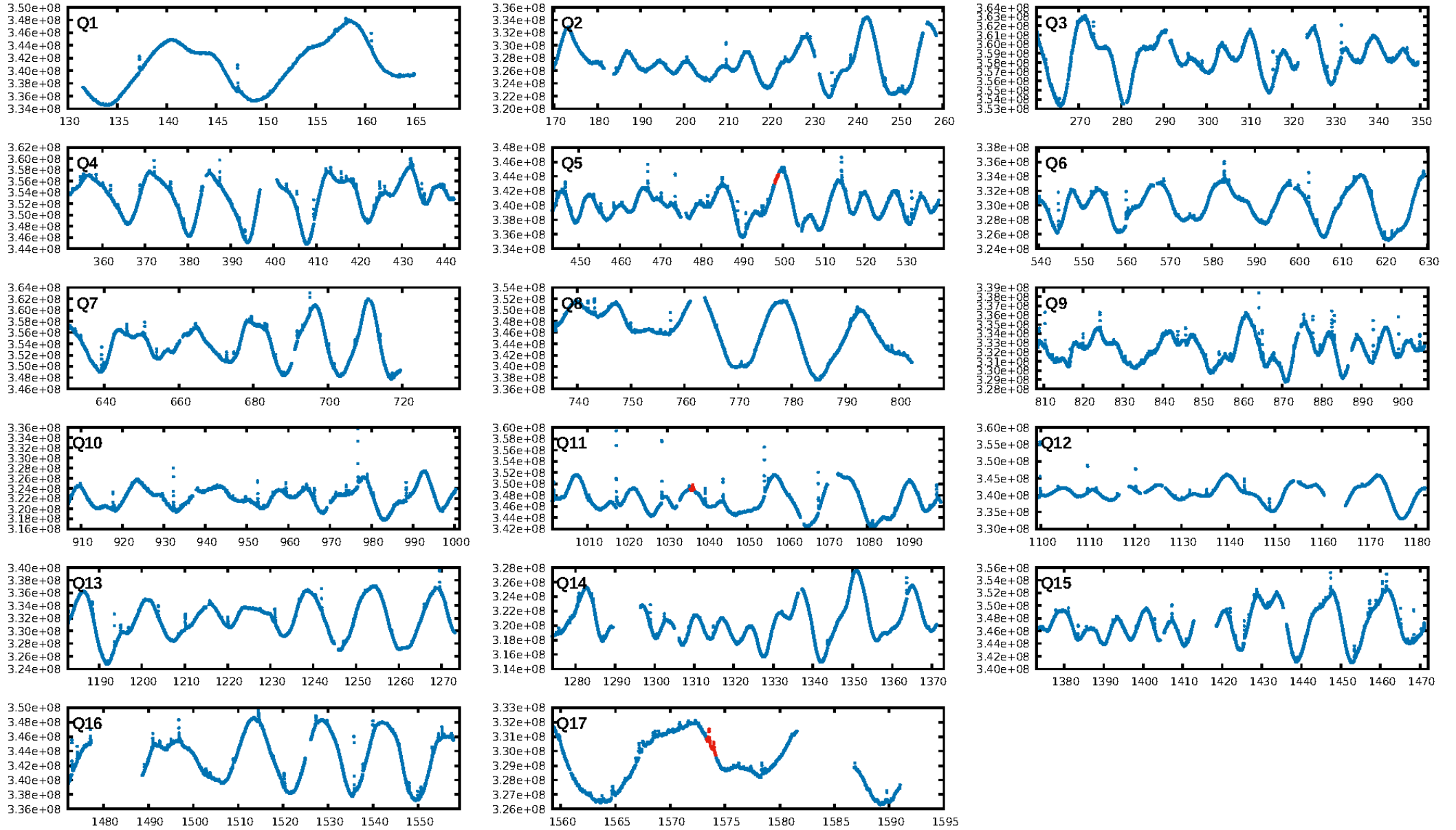
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [101.60 σ]
LongPeriod-sig: 100.0% [234.98 σ]
ModelChiSquare2-sig: 7.0%
ModelChiSquareGof-sig: 99.9%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2/2]
GhostDiagnostic-chr: -11.4
Centroid-sig: 0.0%
Centroid-so: 0.693 arcsec [1.93 σ]
OotOffset-rm: 1.670 arcsec [1.19 σ]
KicOffset-rm: 1.829 arcsec [1.32 σ]
OotOffset-st: 0/1/0/1 [2]
KicOffset-st: 0/1/0/1 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [3/3]

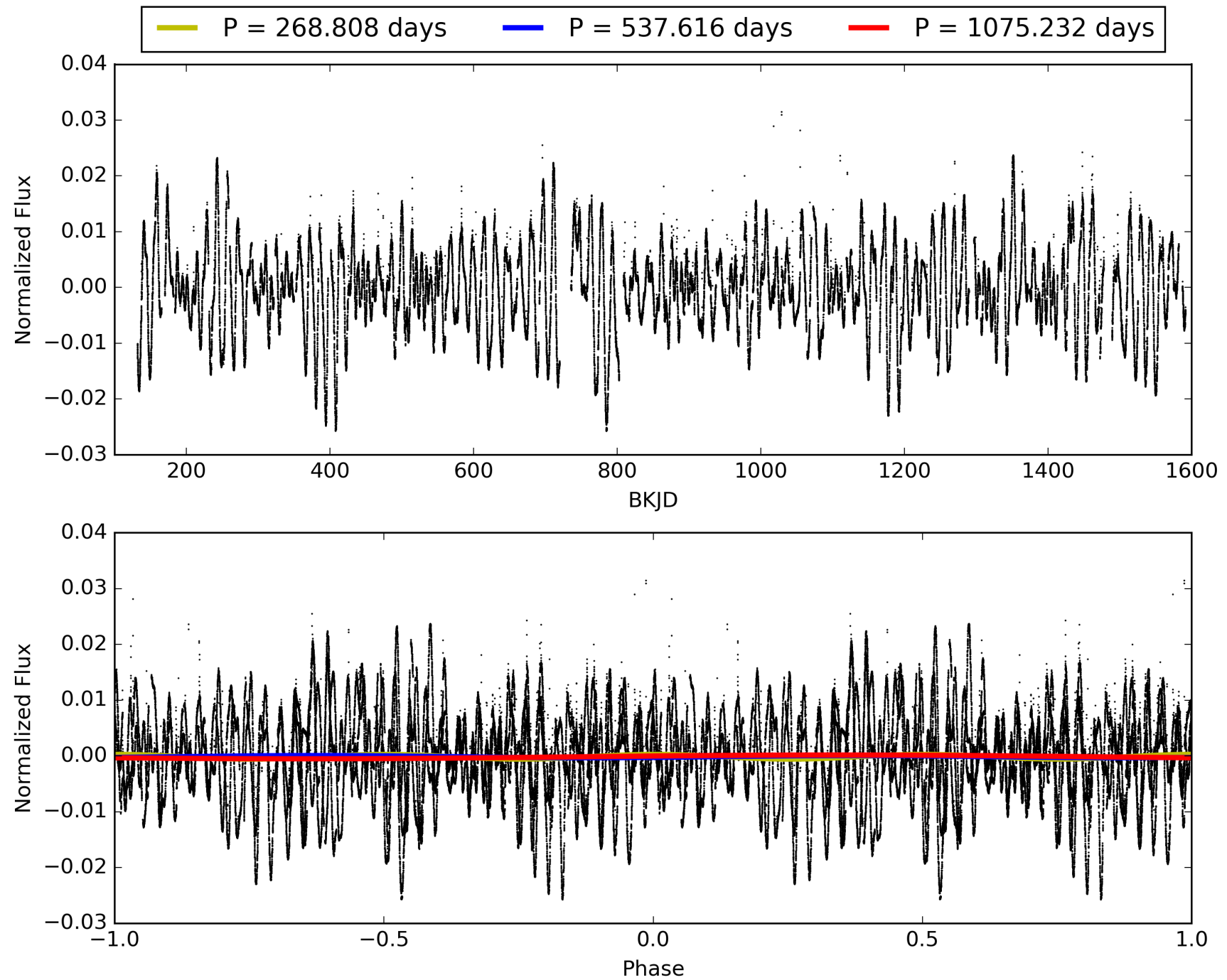
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:12:40 Z

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

TCE 003526481-03, PDC Light Curves

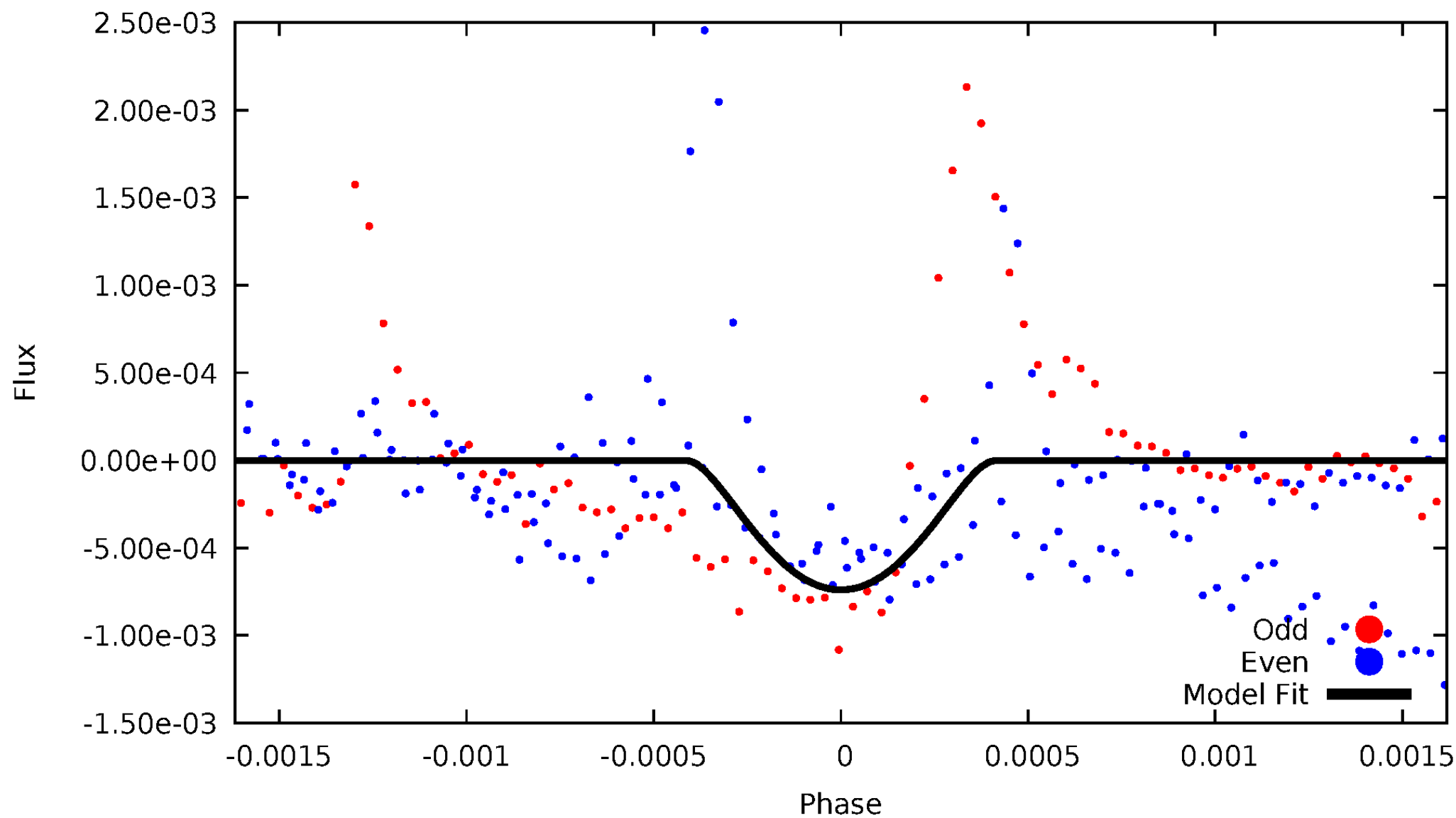


TCE 003526481-03



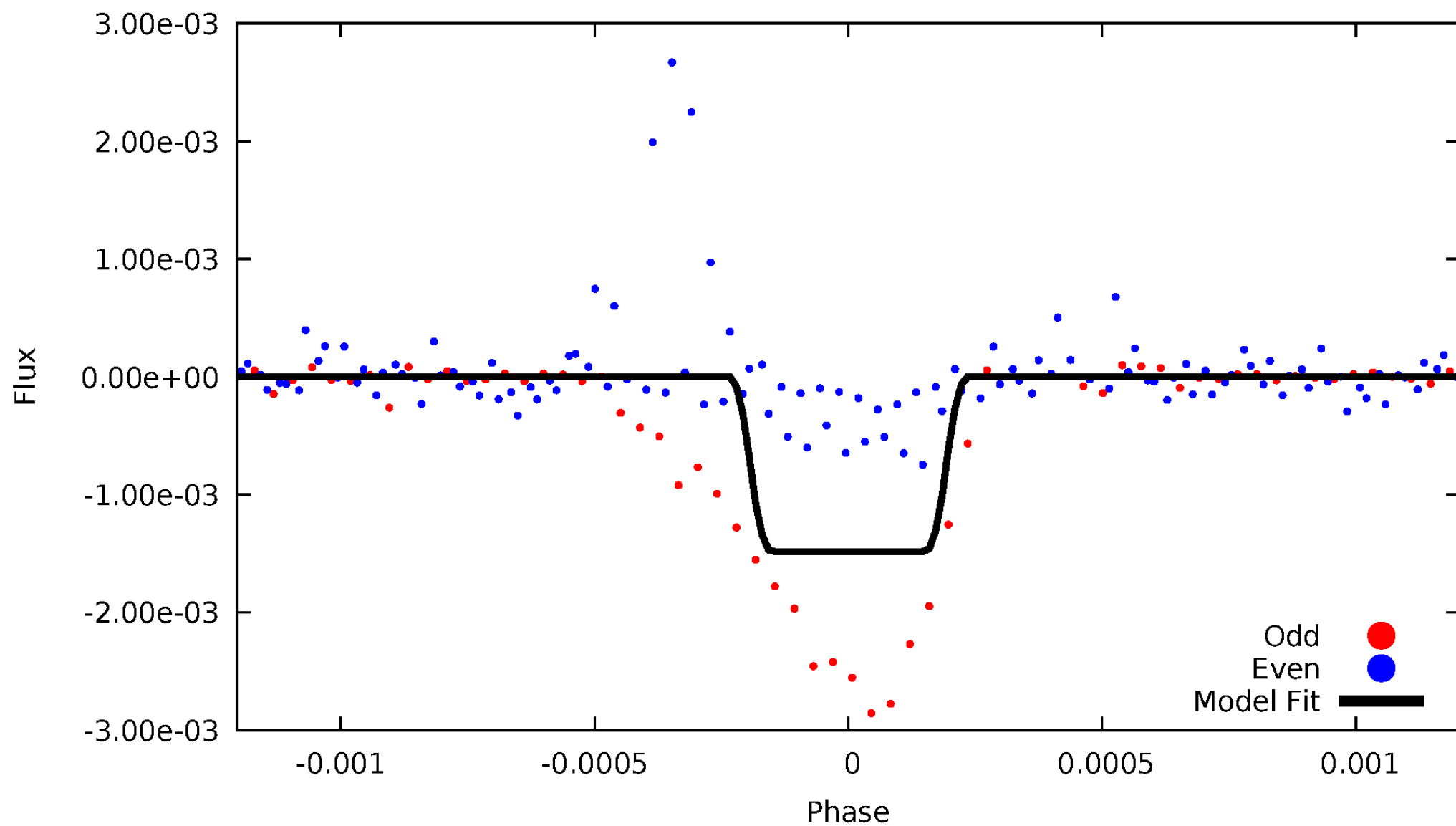
DV Odd/Even

TCE 003526481-03



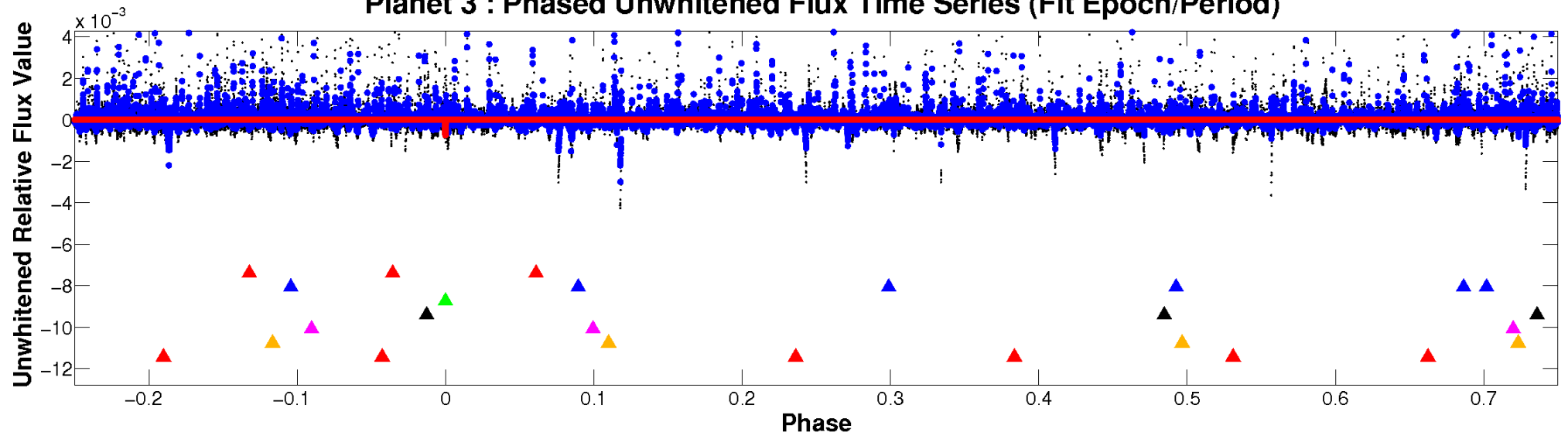
ALT Odd/Even

TCE 003526481-03

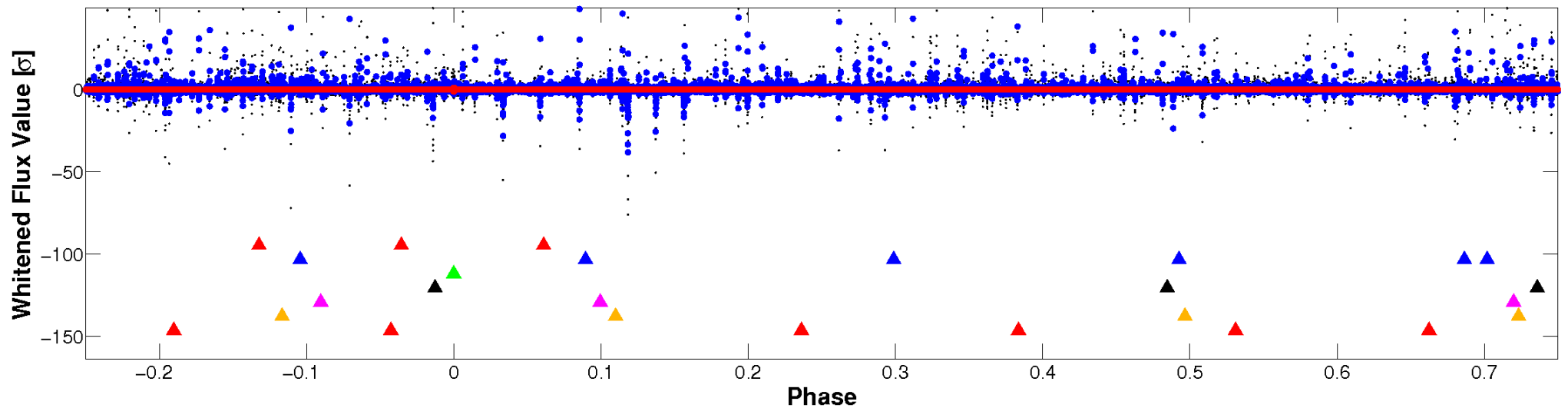


Non-Whitened Vs. Whitened Light Curve

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

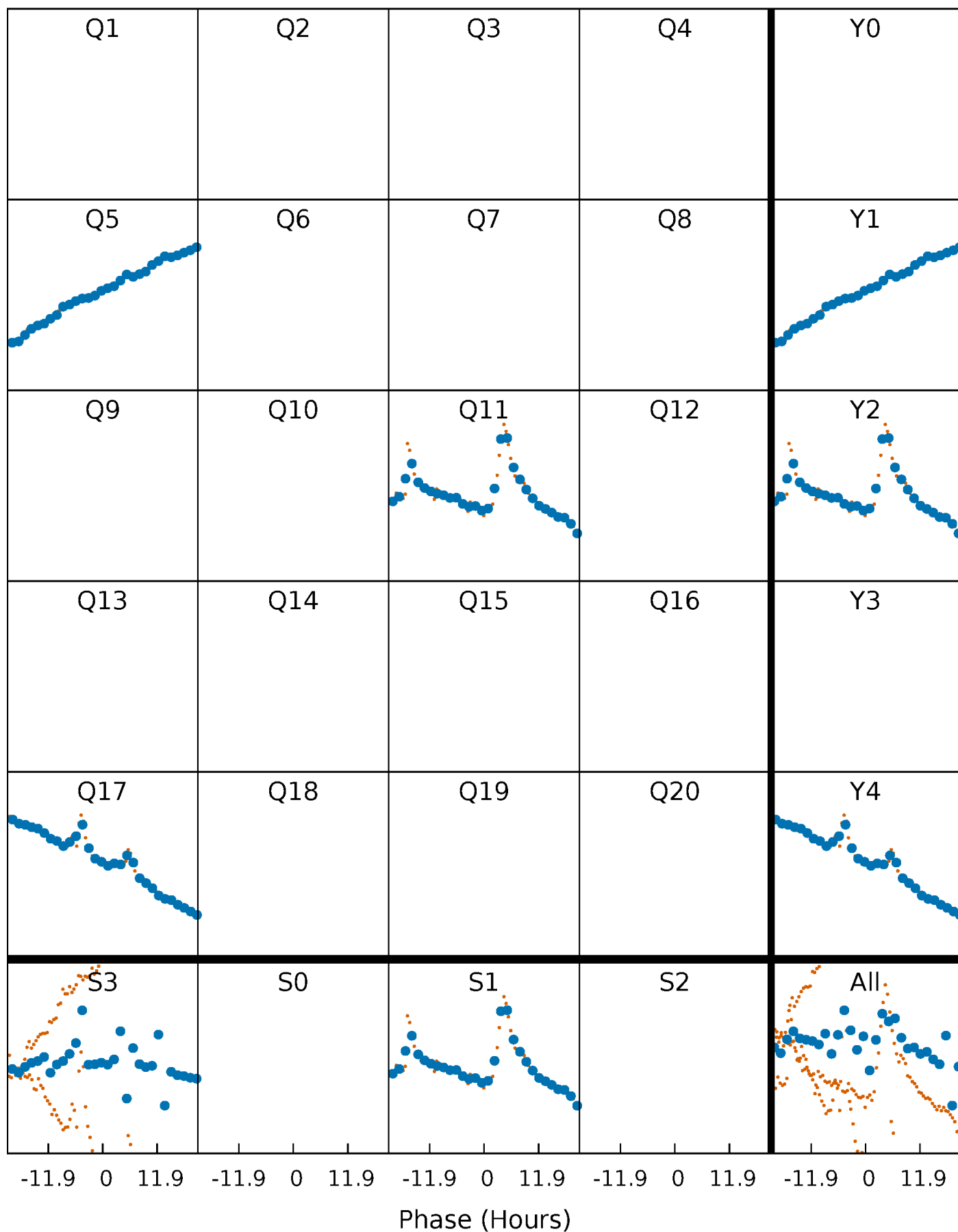


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



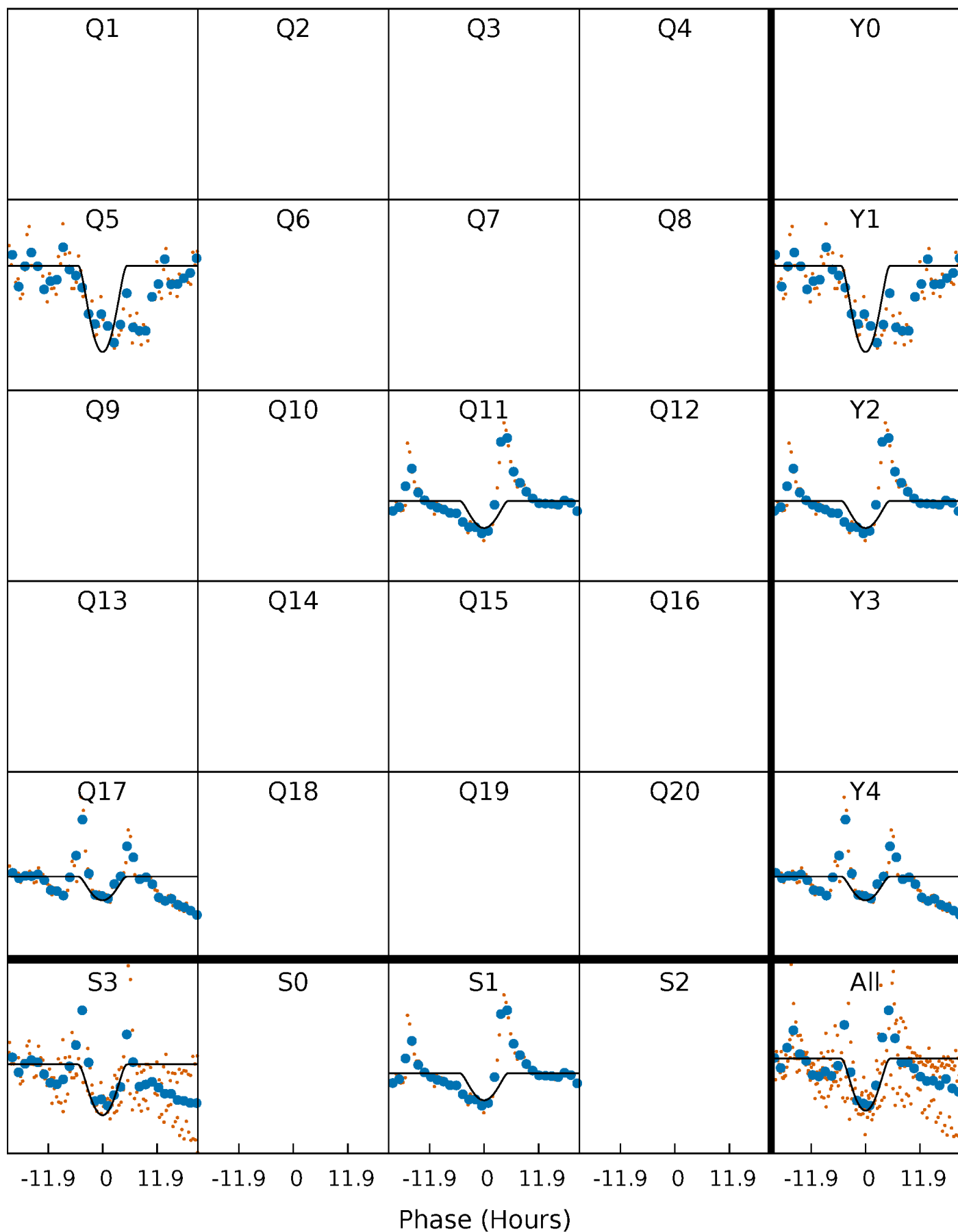
PDC Quarter-Phased Transit Curves

TCE 003526481-03 $P=537.615779$ Days $T_0=498.514962$ (BKJD)



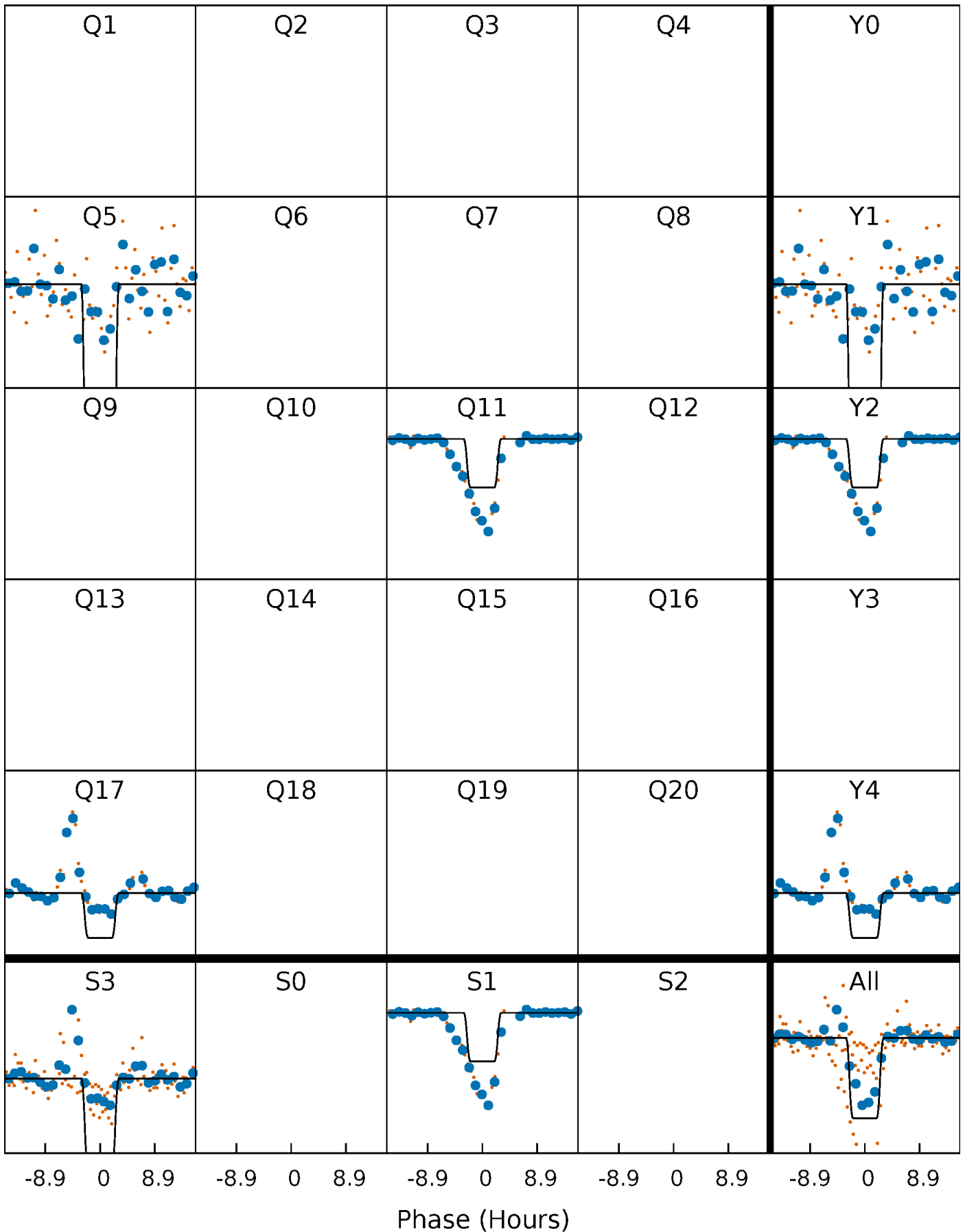
DV Quarter-Phased Transit Curves

TCE 003526481-03 $P=537.615779$ Days $T_0=498.514962$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

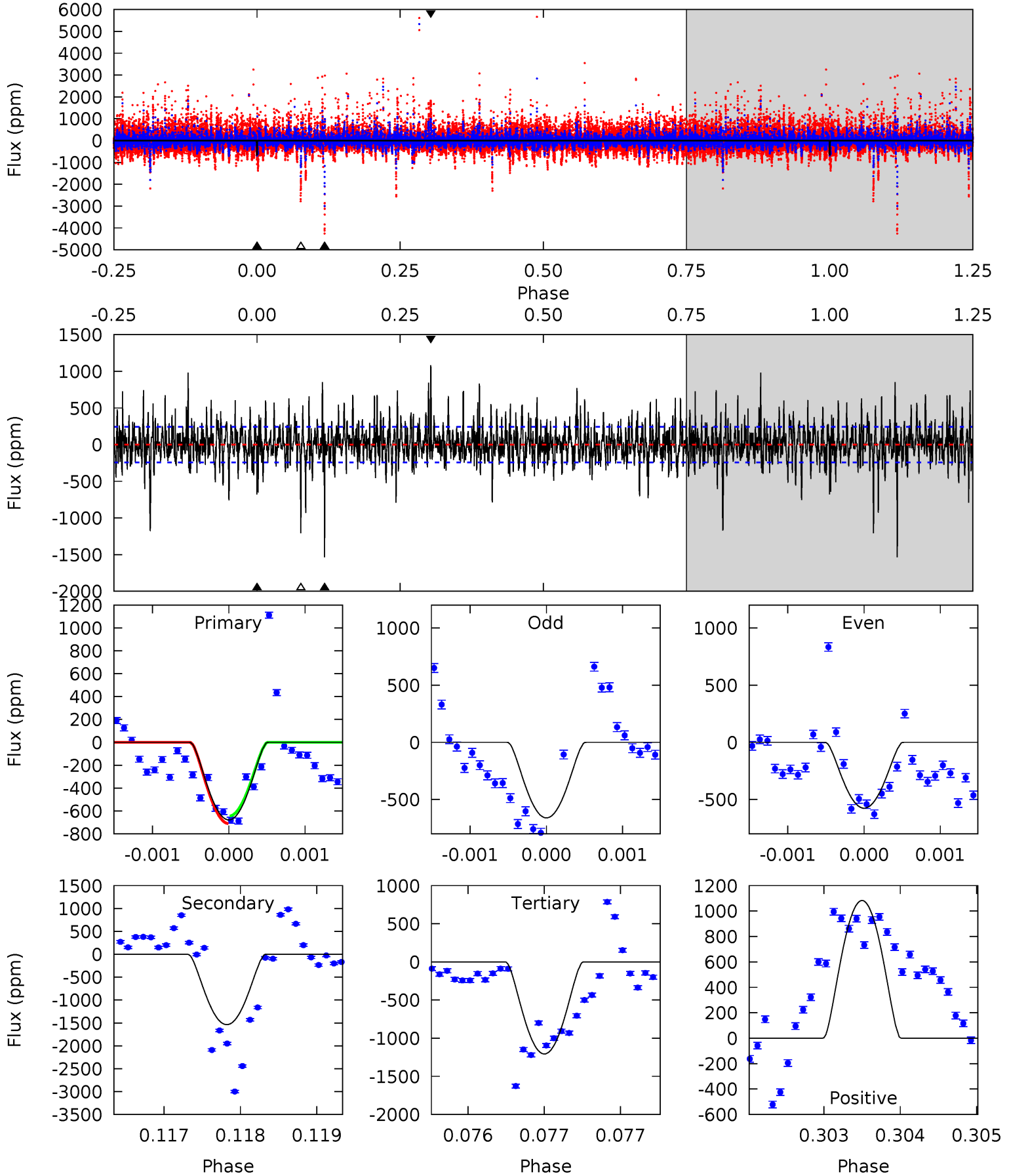
TCE 003526481-03 P=537.572908 Days $T_0=498.591729$ (BKJD)



DV Model-Shift Uniqueness Test

003526481-03, P = 537.615779 Days, E = 498.514962 Days

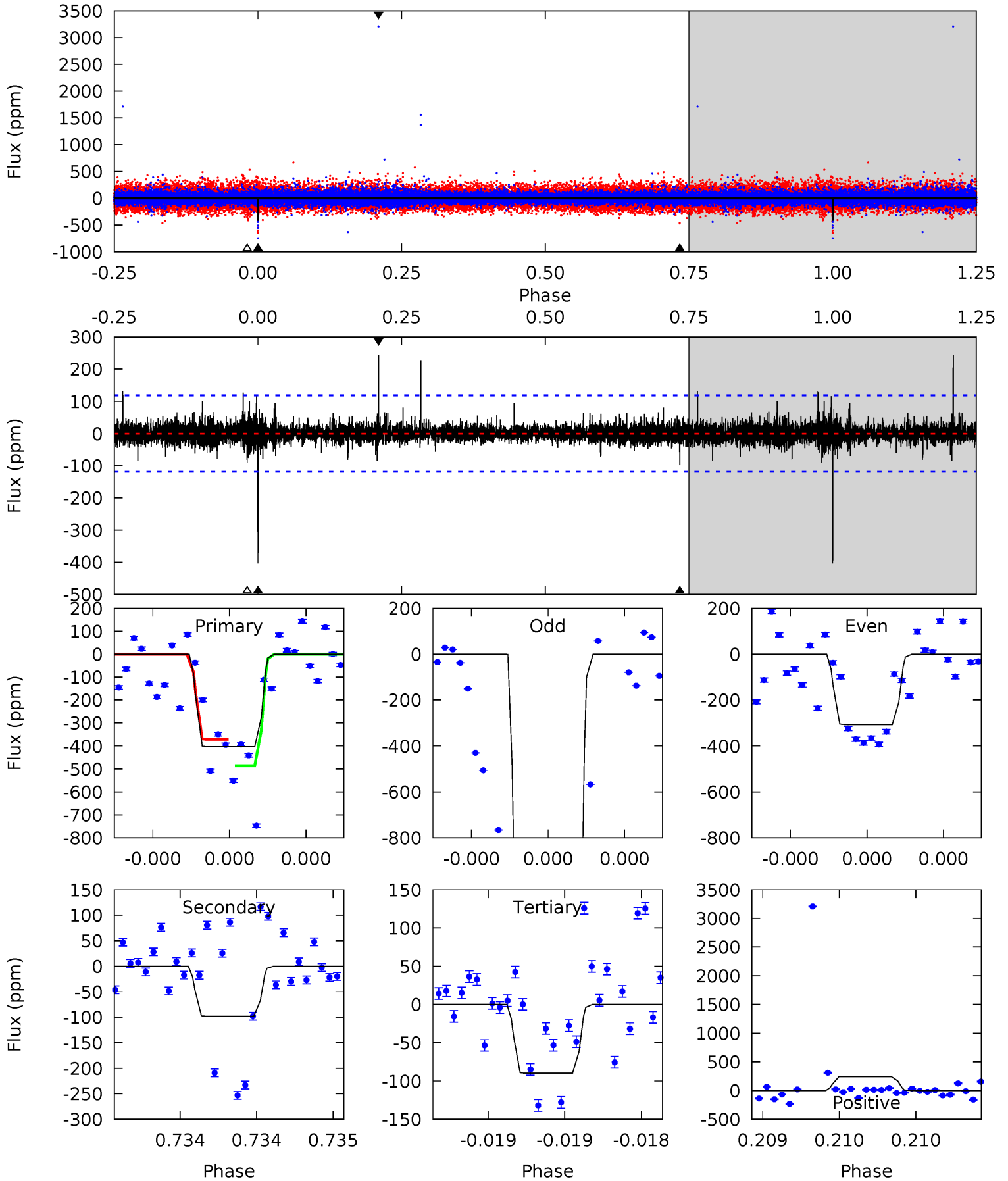
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.4	34.8	27.3	24.5	5.49	3.35	4.76	-12.0	-9.16	7.48	10.3	0.52	0.93	0.41	0.75



Alt Model-Shift Uniqueness Test

003526481-03, P = 537.572908 Days, E = 498.591729 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.0	4.62	4.23	11.5	5.59	3.51	0.78	14.8	7.56	0.39	-6.85	52.8	1.90	0.38	2.62



Stellar Parameters For KIC 003526481

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5687^{+170}_{-153}	$3.760^{+0.584}_{-0.146}$	$0.180^{+0.200}_{-0.300}$	$2.572^{+0.628}_{-1.466}$	$1.387^{+0.134}_{-0.402}$	$0.115^{+0.870}_{-0.045}$
	+3%/-3%	+16%/-4%	+111%/-167%	+24%/-57%	+10%/-29%	+758%/-40%
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 003526481-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1537 ± 44	$18.42^{+18.90}_{-13.21}$	459^{+39}_{-65}	4323^{+3487}_{-812}	4940^{+57707}_{-3689}
Alt.	-98 ± 21	$15.71^{+18.96}_{-10.96}$	453^{+40}_{-73}	2890^{+1232}_{-470}	419^{+3667}_{-329}

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 $A_{obs} \gg 1.0$

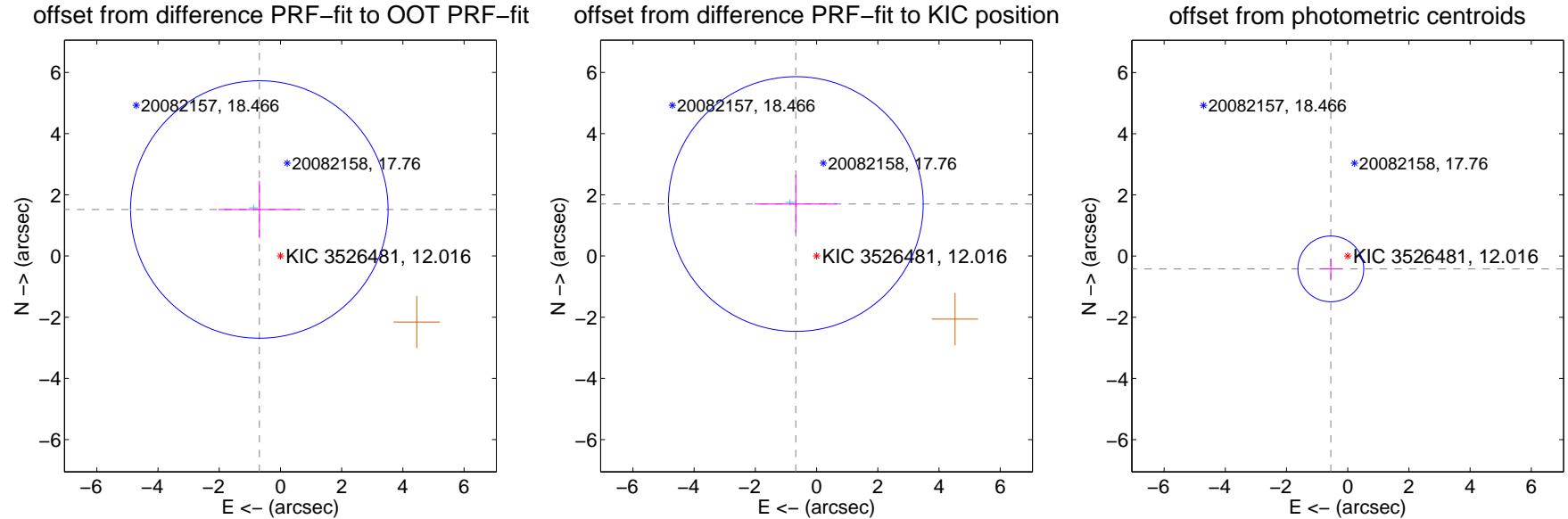
DV Centroid Data

Supplemental centroid analysis for 003526481-03. Kepler magnitude: 12.02. Transit SNR 6.63

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.670 ± 1.402	1.19	0.690 ± 1.335	1.521 ± 0.935
PRF-fit source offset from KIC position	1.829 ± 1.387	1.32	0.678 ± 1.350	1.699 ± 0.956
photometric centroid source offset	0.69 ± 0.36	1.93	0.55 ± 0.37	-0.42 ± 0.34

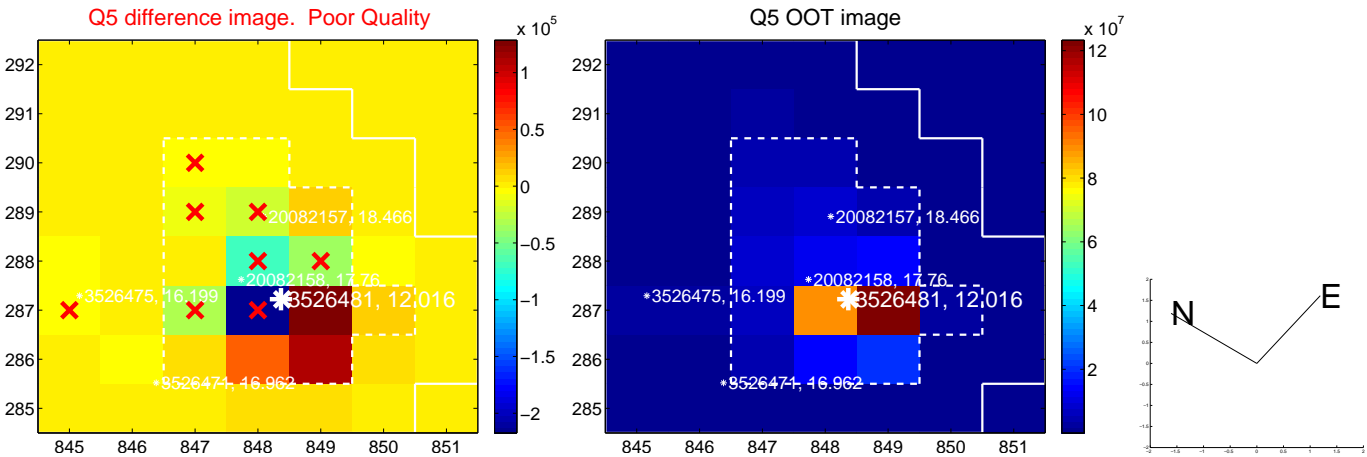


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

Q9 no difference image



Q9 no OOT image



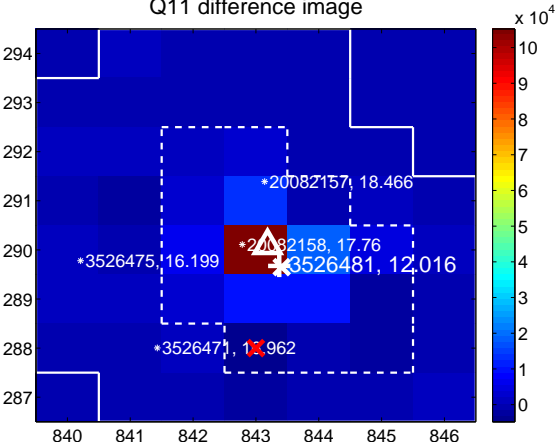
Q10 no difference image



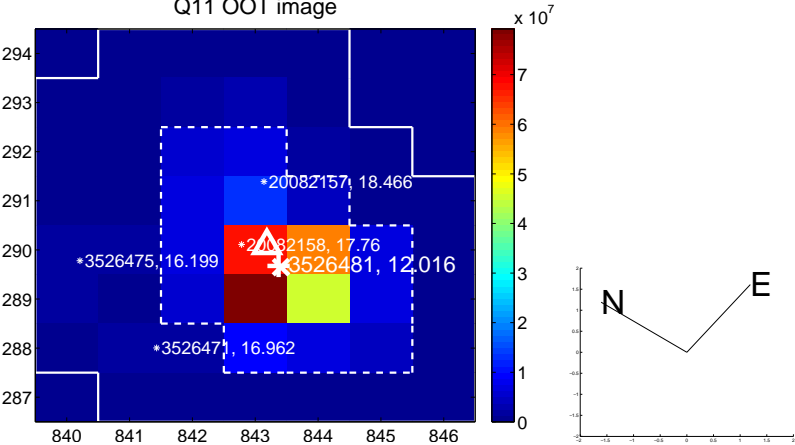
Q10 no OOT image



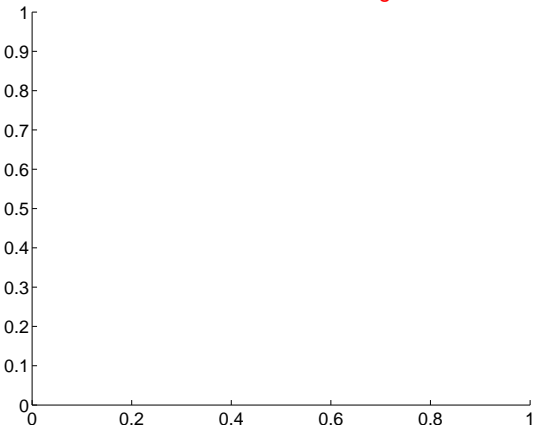
Q11 difference image



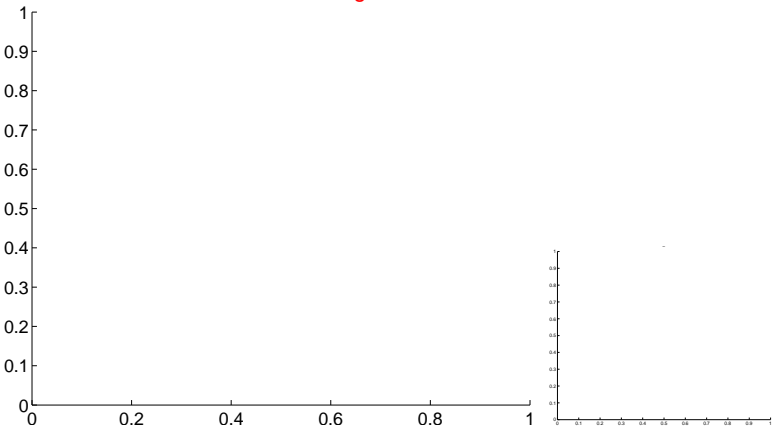
Q11 OOT image



Q12 no difference image



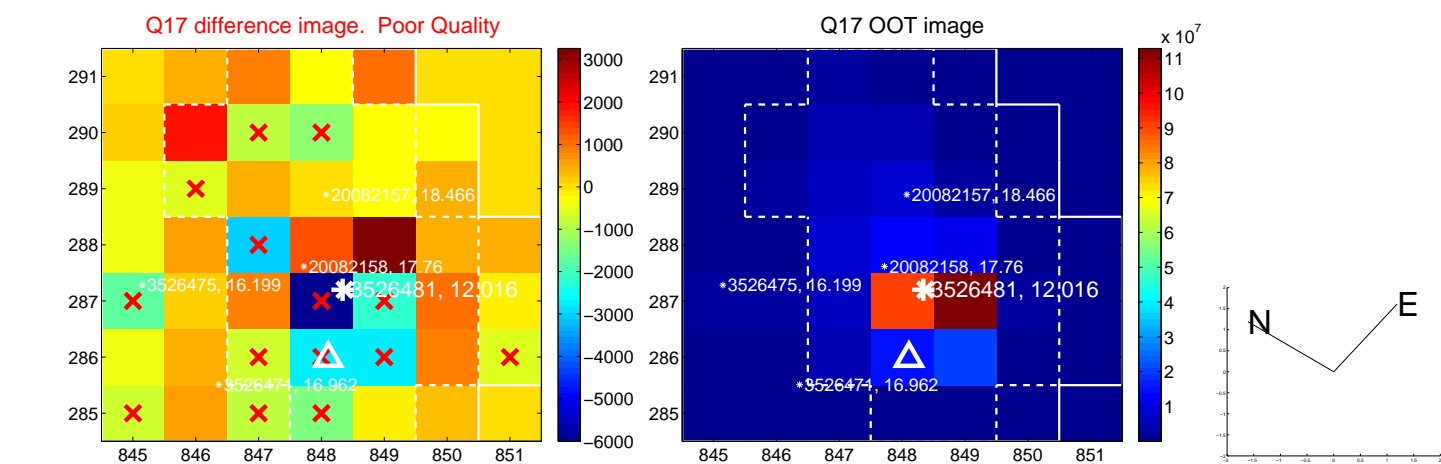
Q12 no OOT image



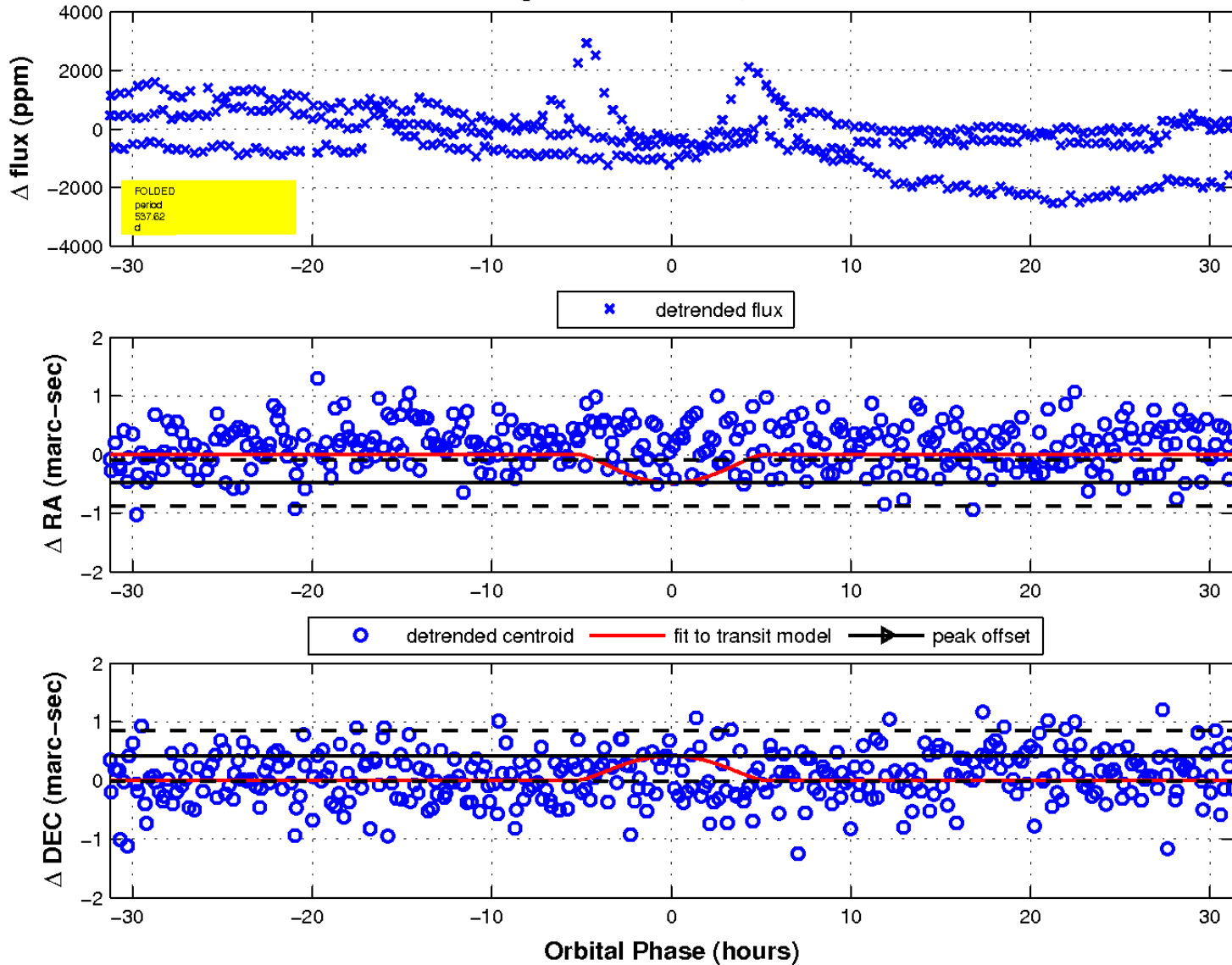
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 7



Declination

KIC 003526481

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})
003526481-01	OBS	No	485.655832	531.340454	836.7	6.461	18.8	9.5	2.57	5687	7.55	3.40
003526481-02	OBS	No	216.709560	329.941623	569.4	5.482	15.8	8.3	2.57	5687	6.37	9.99
003526481-03	OBS	No	537.615779	498.514962	739.6	10.436	13.9	6.6	2.57	5687	12.71	2.97
003526481-04	OBS	No	672.740070	221.443925	413.0	9.031	13.5	5.0	2.57	5687	5.94	2.21
003526481-05	OBS	No	435.580175	552.016674	588.3	5.323	12.6	7.7	2.57	5687	7.00	3.94
003526481-06	OBS	No	329.712428	435.836924	563.2	17.565	11.6	7.0	2.57	5687	6.26	5.71
003526481-07	OBS	No	229.171012	246.407054	308.8	3.000	11.8	-1.0	2.57	5687	4.46	9.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003526481-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
003526481-06	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
003526481-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—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.

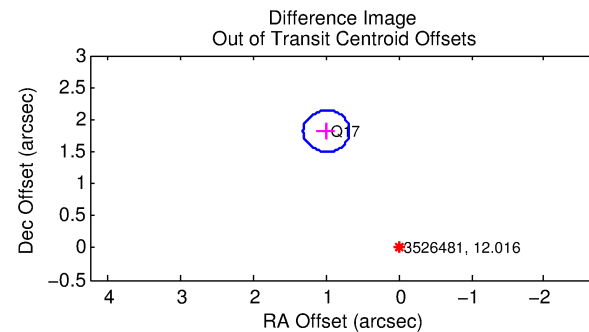
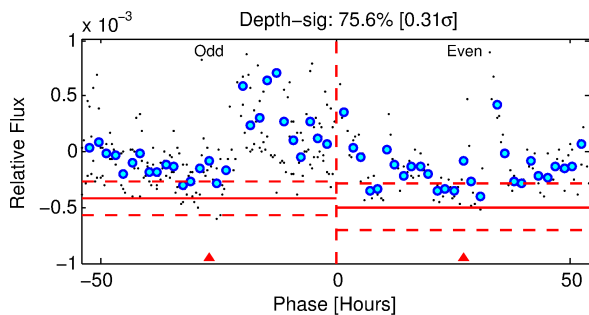
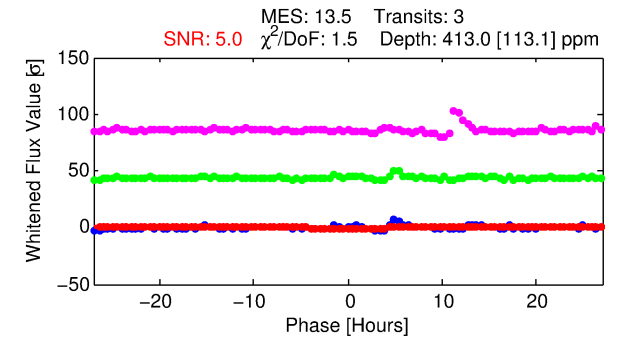
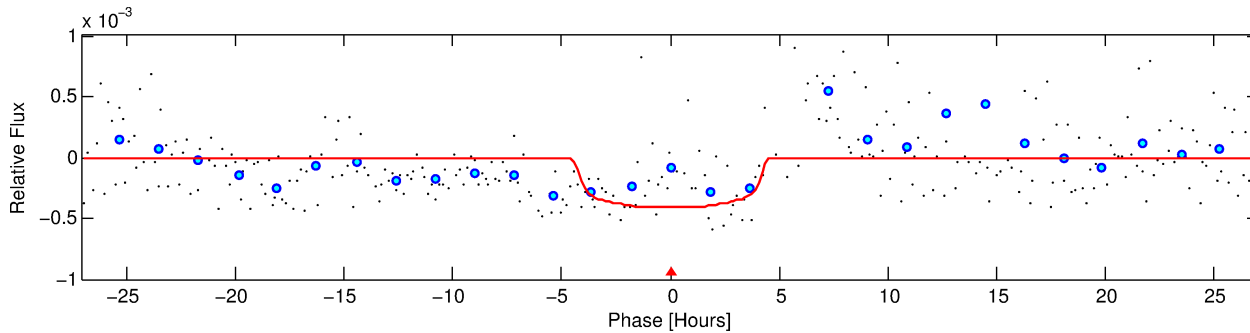
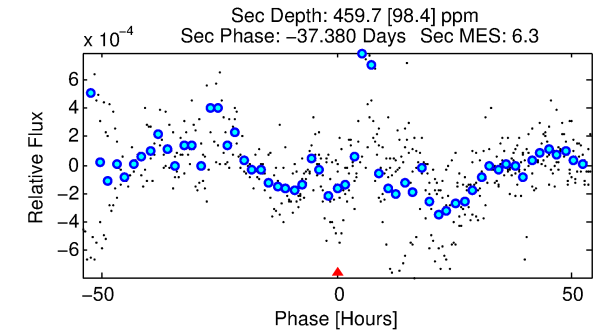
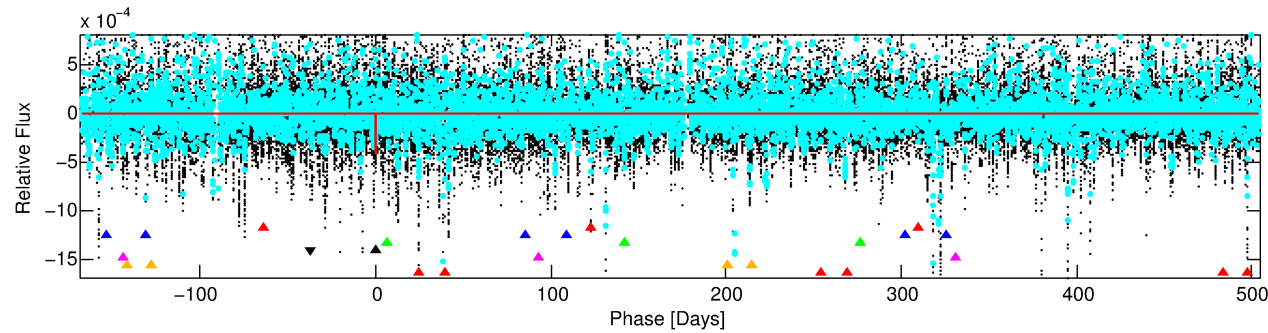
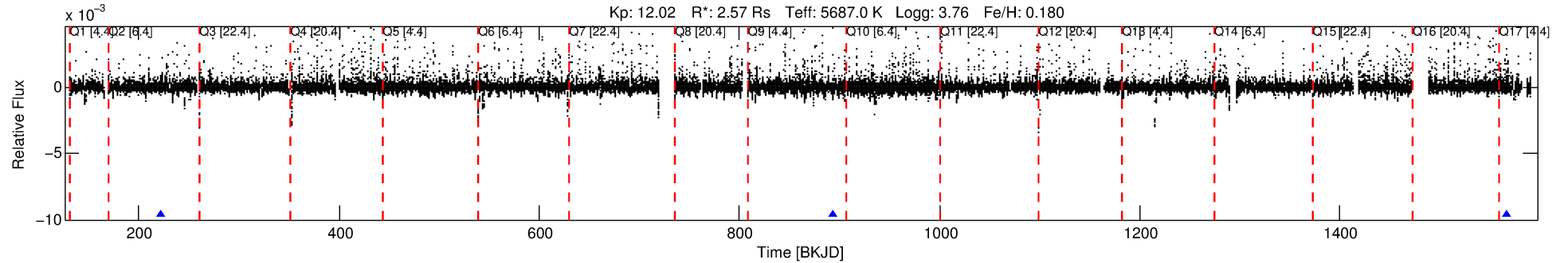
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003526481-04

No Significant Match Found

DV One-Page Summary

KIC: 3526481 Candidate: 4 of 7 Period: 672.740 d



DV Fit Results:

Period = 672.74007 [0.01129] d
Epoch = 221.4439 [0.0155] BKJD
 R_p/R^* = 0.0212 [0.0061]
 a/R^* = 331.56 [340.42]
 b = 0.84 [0.37]
 S_{eff} = 2.21 [2.16]
 T_{eq} = 311 [76] K
 R_p = 5.94 [3.80] R_{e}
 a = 1.6767 [0.9852] AU
 A_g = 20169.89 [23271.34] [0.87σ]
 T_{eff} = 5725 [902] K [5.98σ]

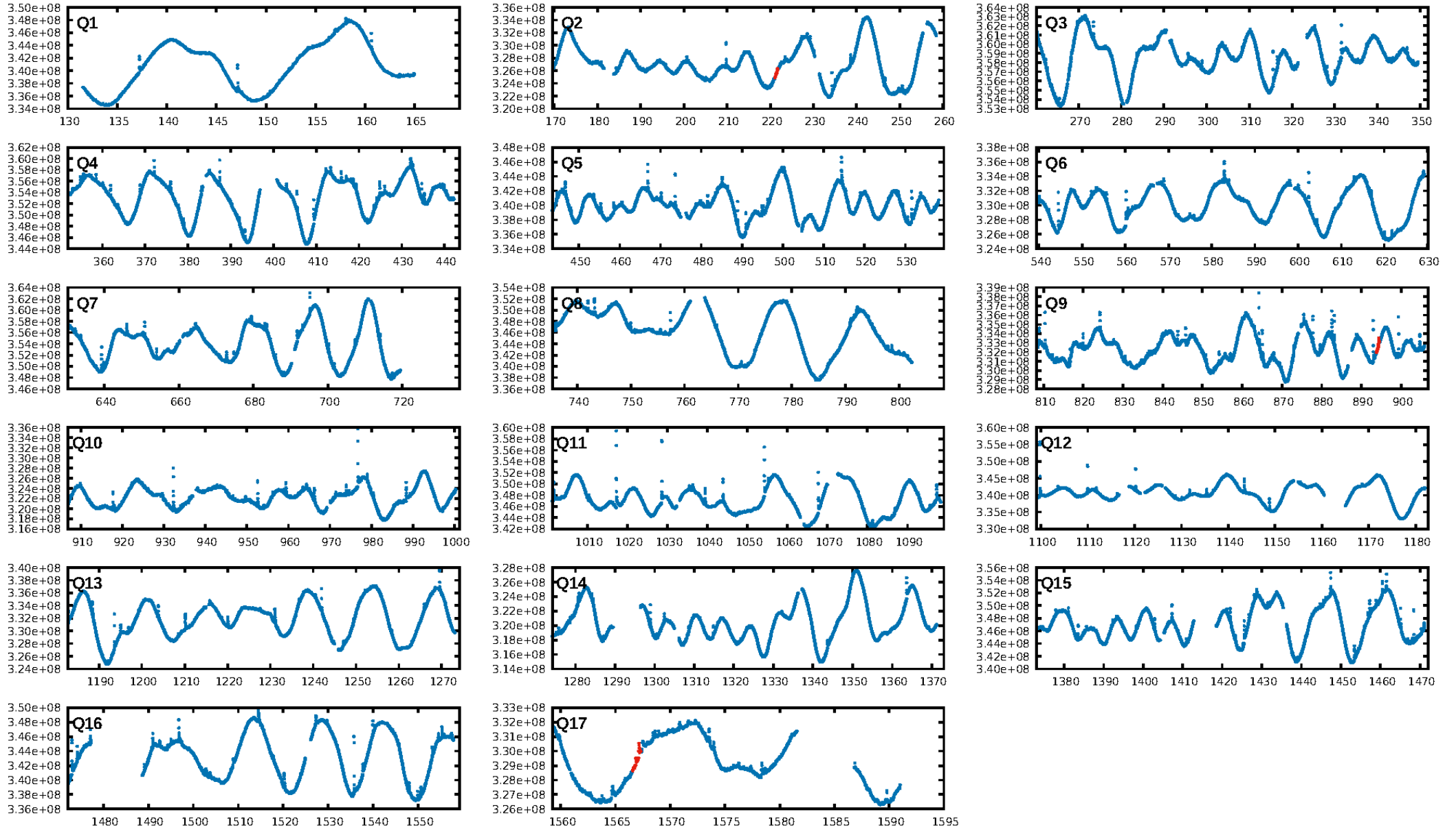
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [234.98σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 21.0%
ModelChiSquareGof-sig: 75.2%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2/2]
GhostDiagnostic-chr: 1.951
Centroid-sig: 85.0%
Centroid-so: 0.331 arcsec [0.53σ]
OotOffset-rm: 2.074 arcsec [19.35σ]
KicOffset-rm: 2.128 arcsec [19.94σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [3/3]

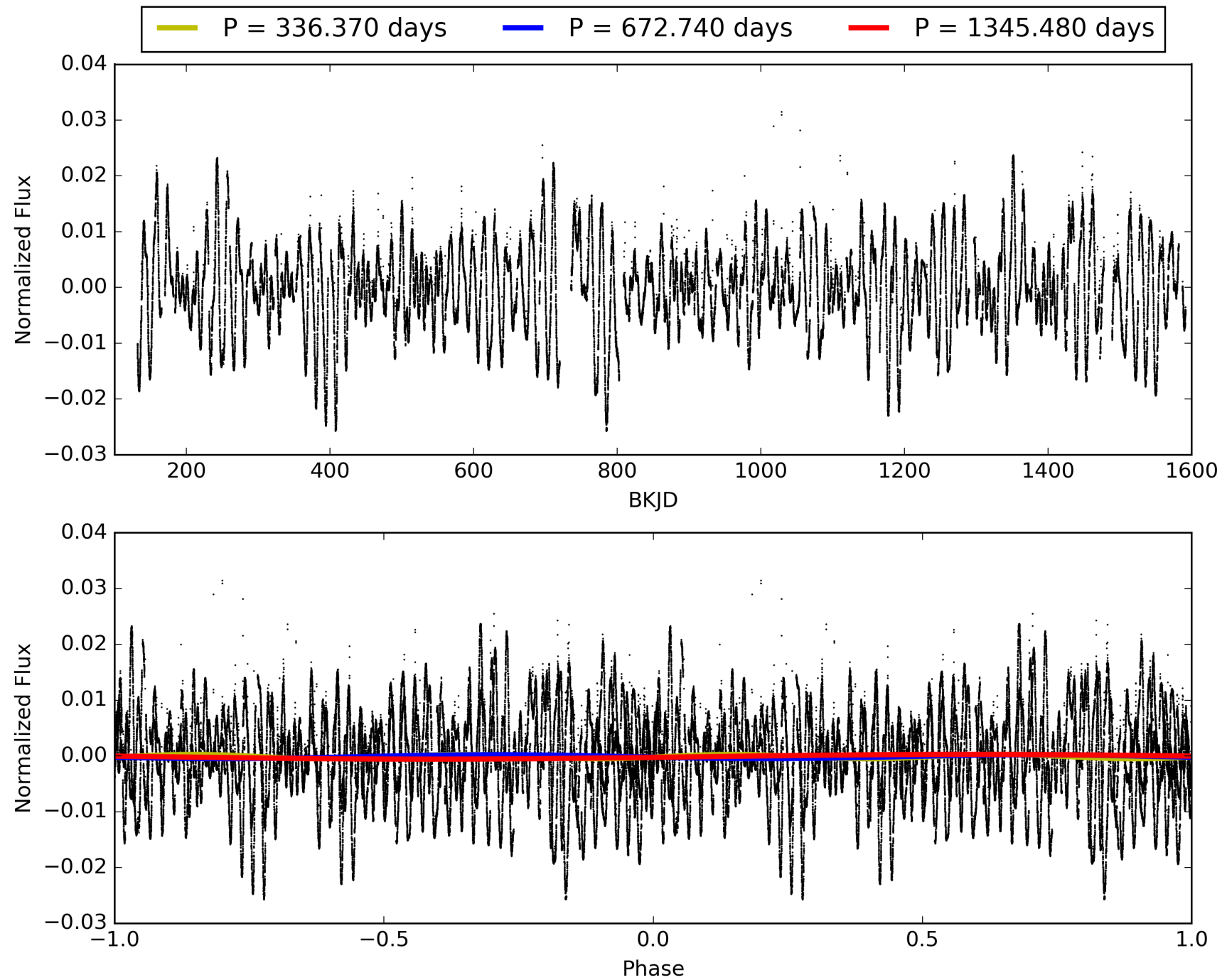
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:12:52 Z

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

TCE 003526481-04, PDC Light Curves

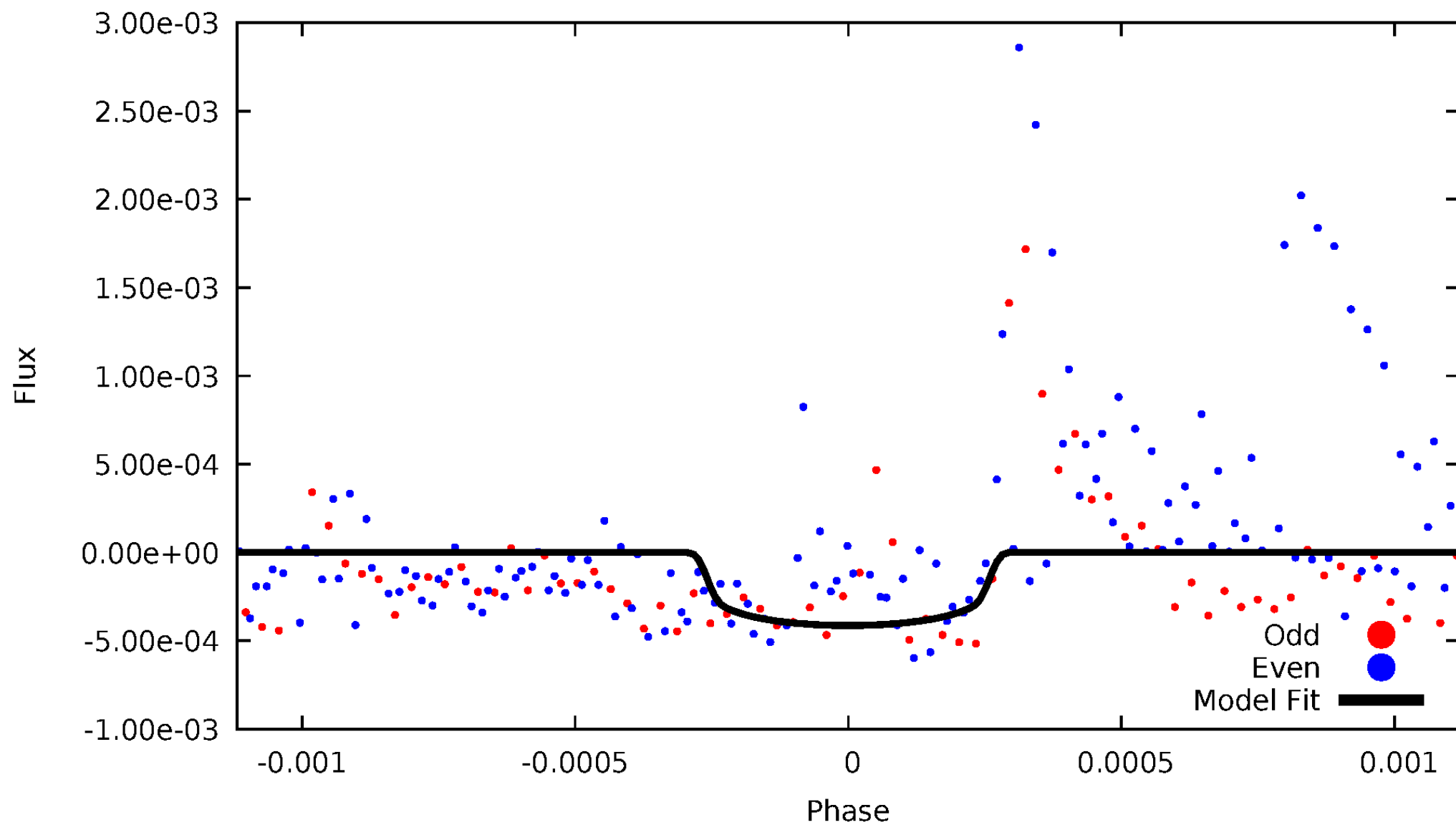


TCE 003526481-04



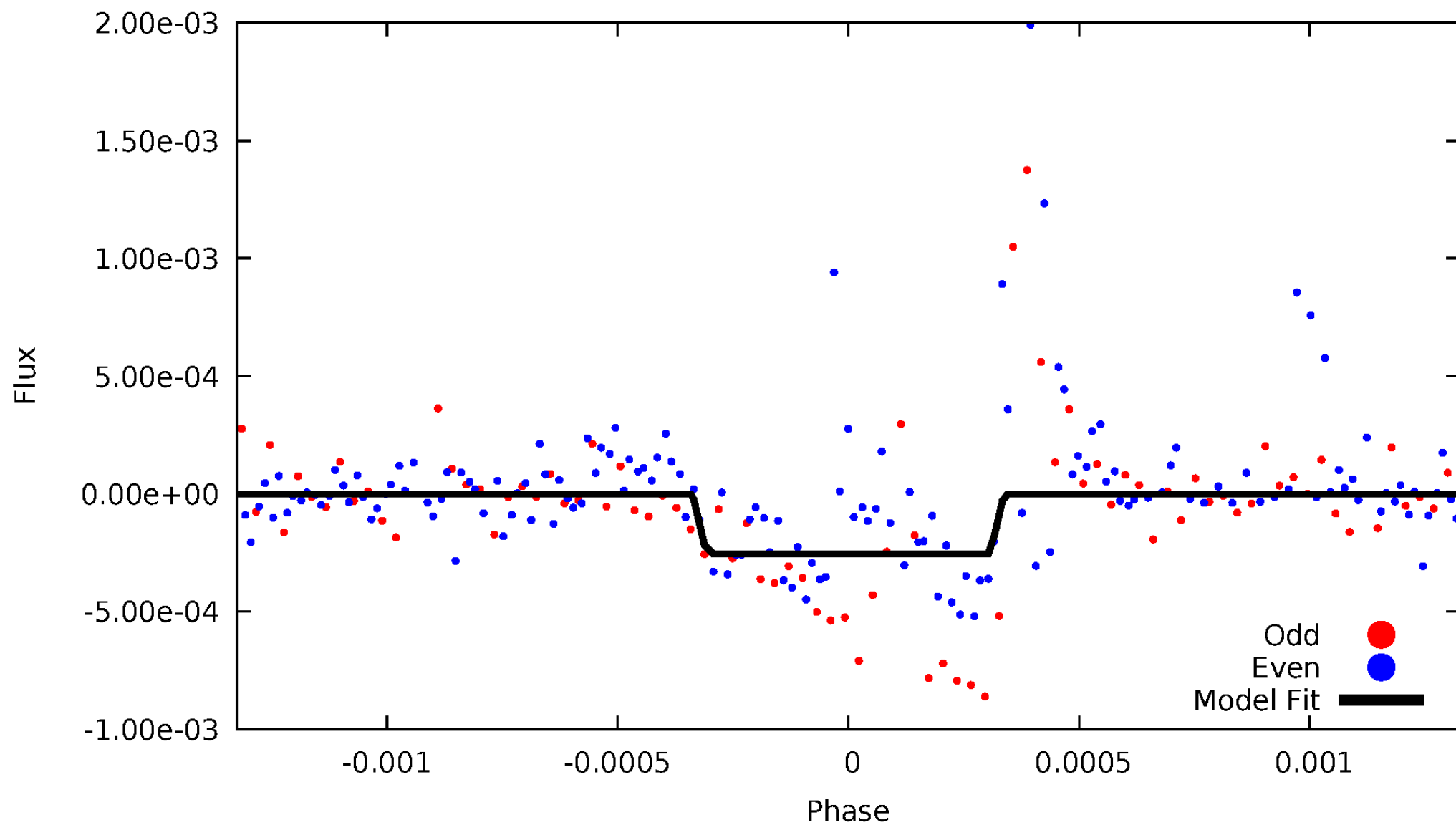
DV Odd/Even

TCE 003526481-04



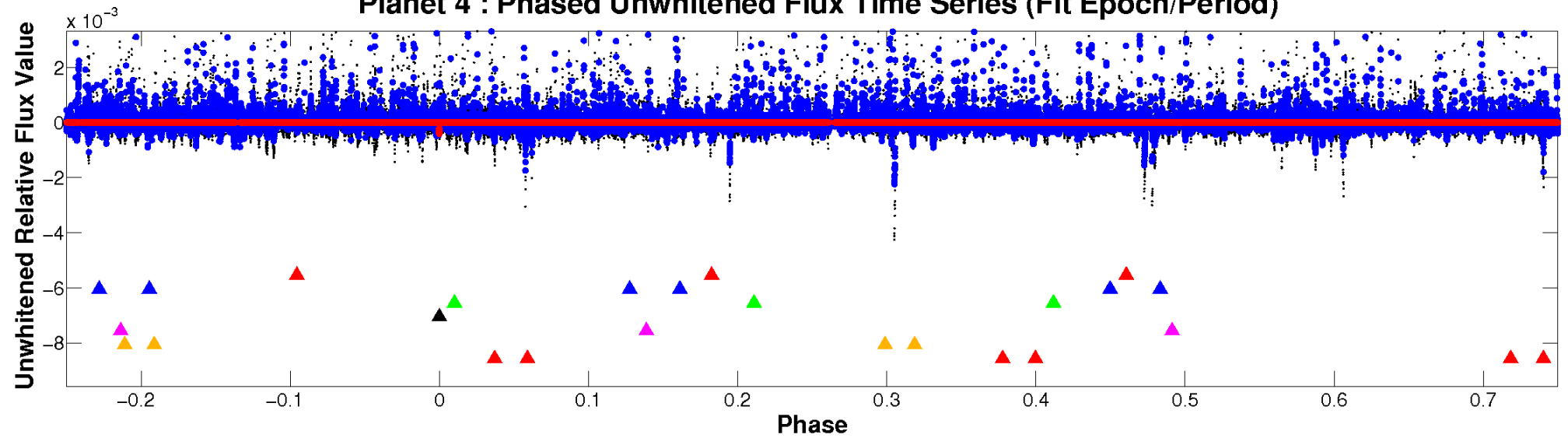
ALT Odd/Even

TCE 003526481-04

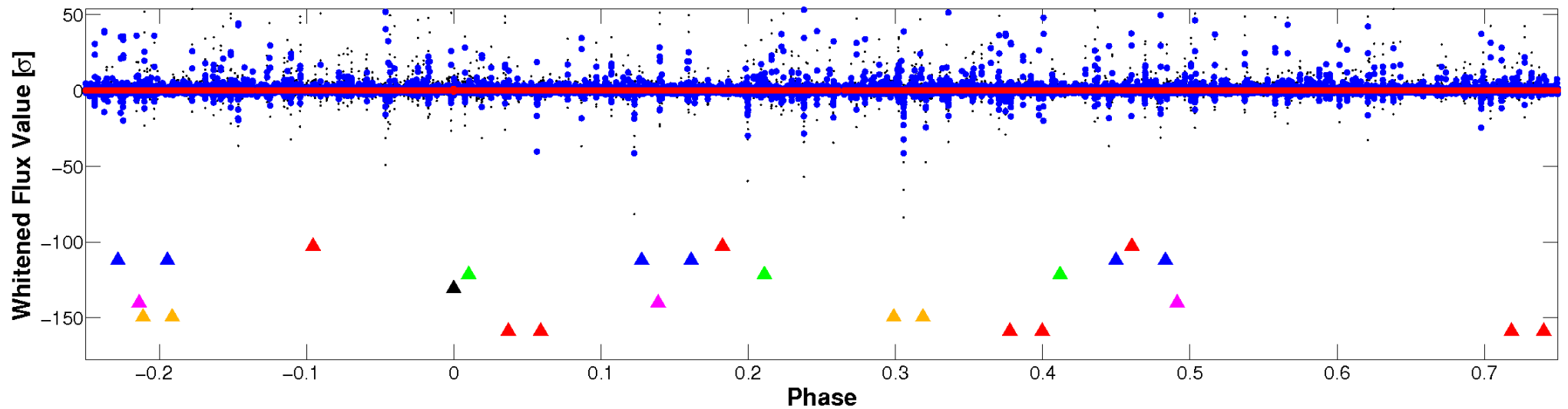


Non-Whitened Vs. Whitened Light Curve

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

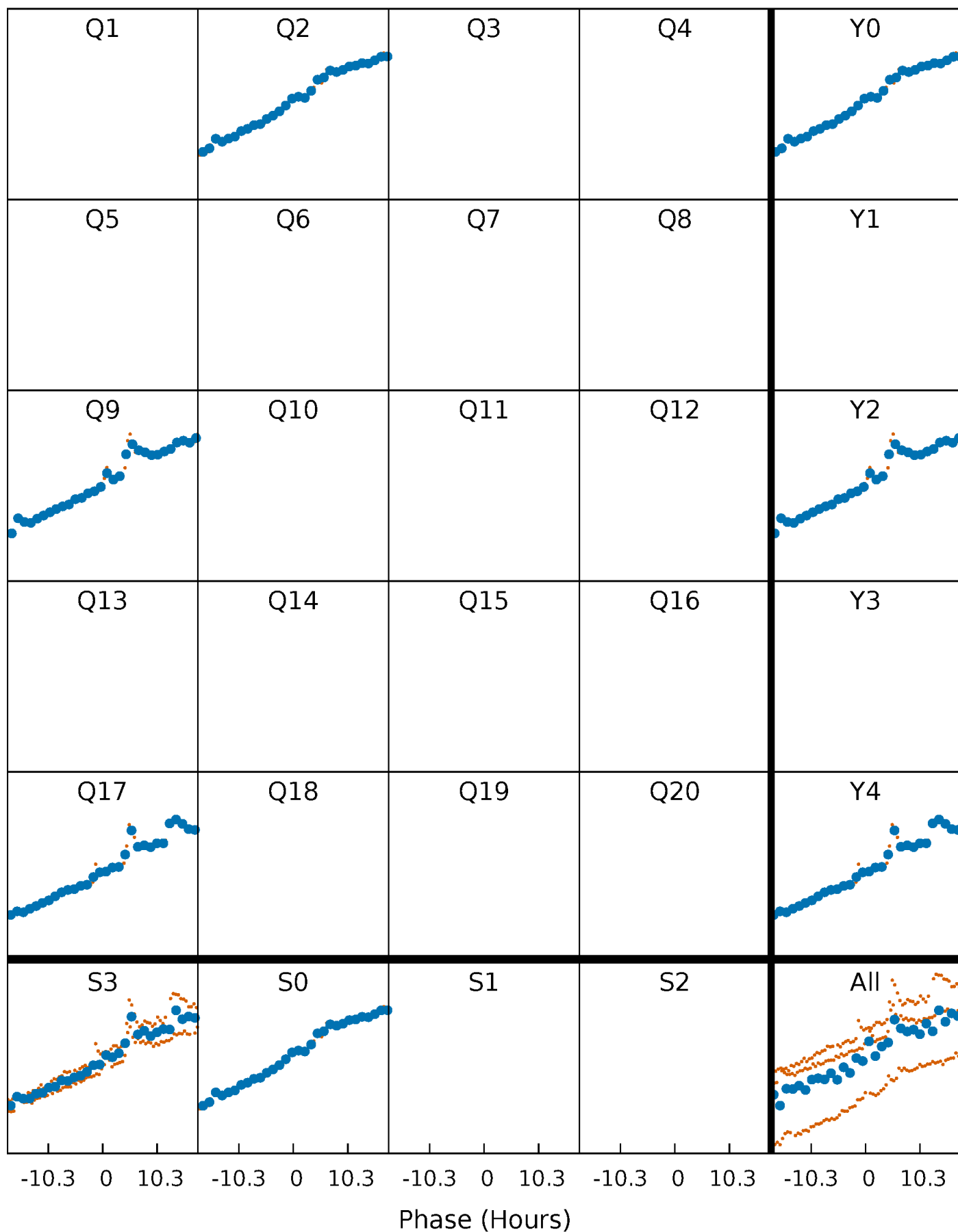


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



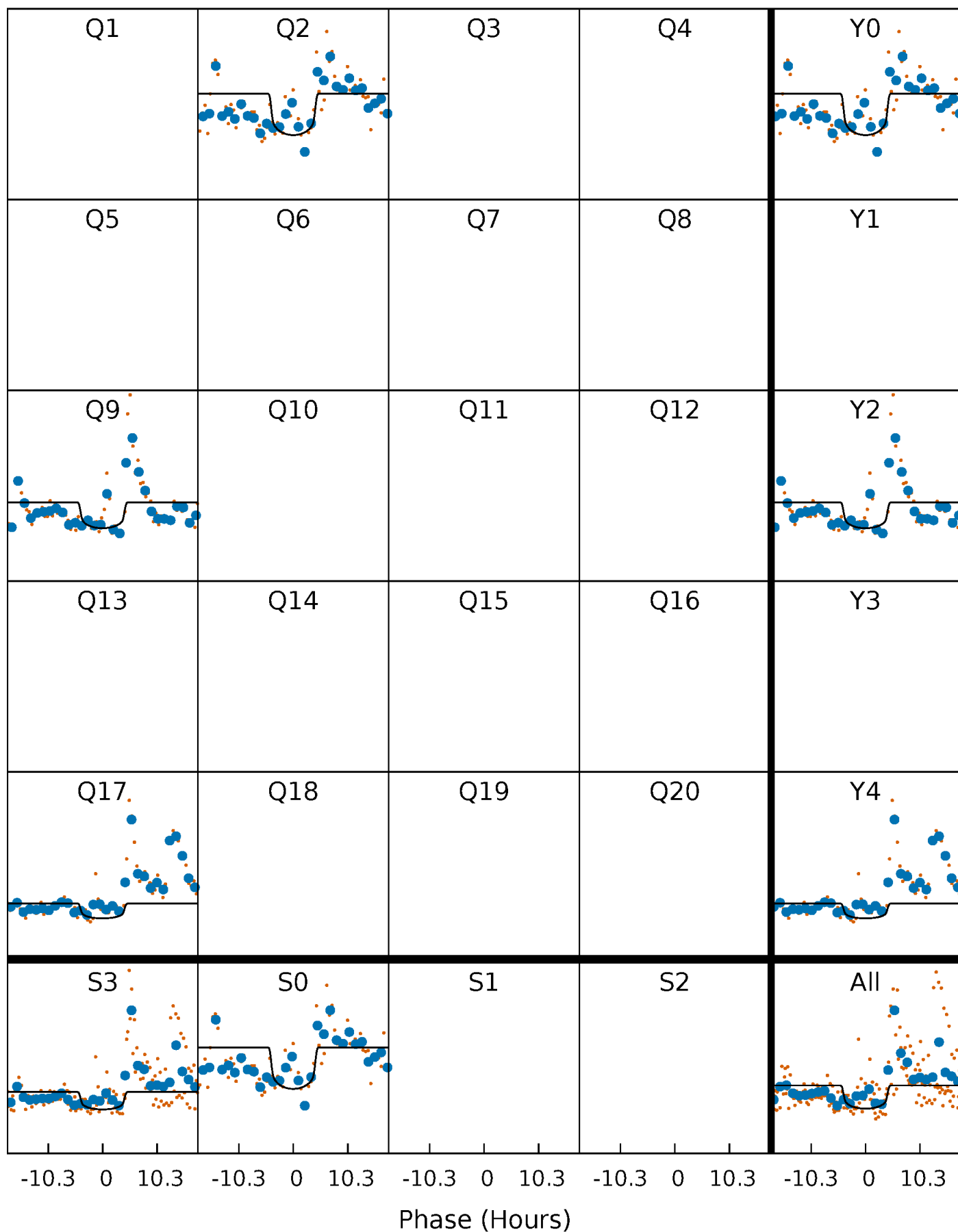
PDC Quarter-Phased Transit Curves

TCE 003526481-04 $P=672.740070$ Days $T_0=221.443926$ (BKJD)



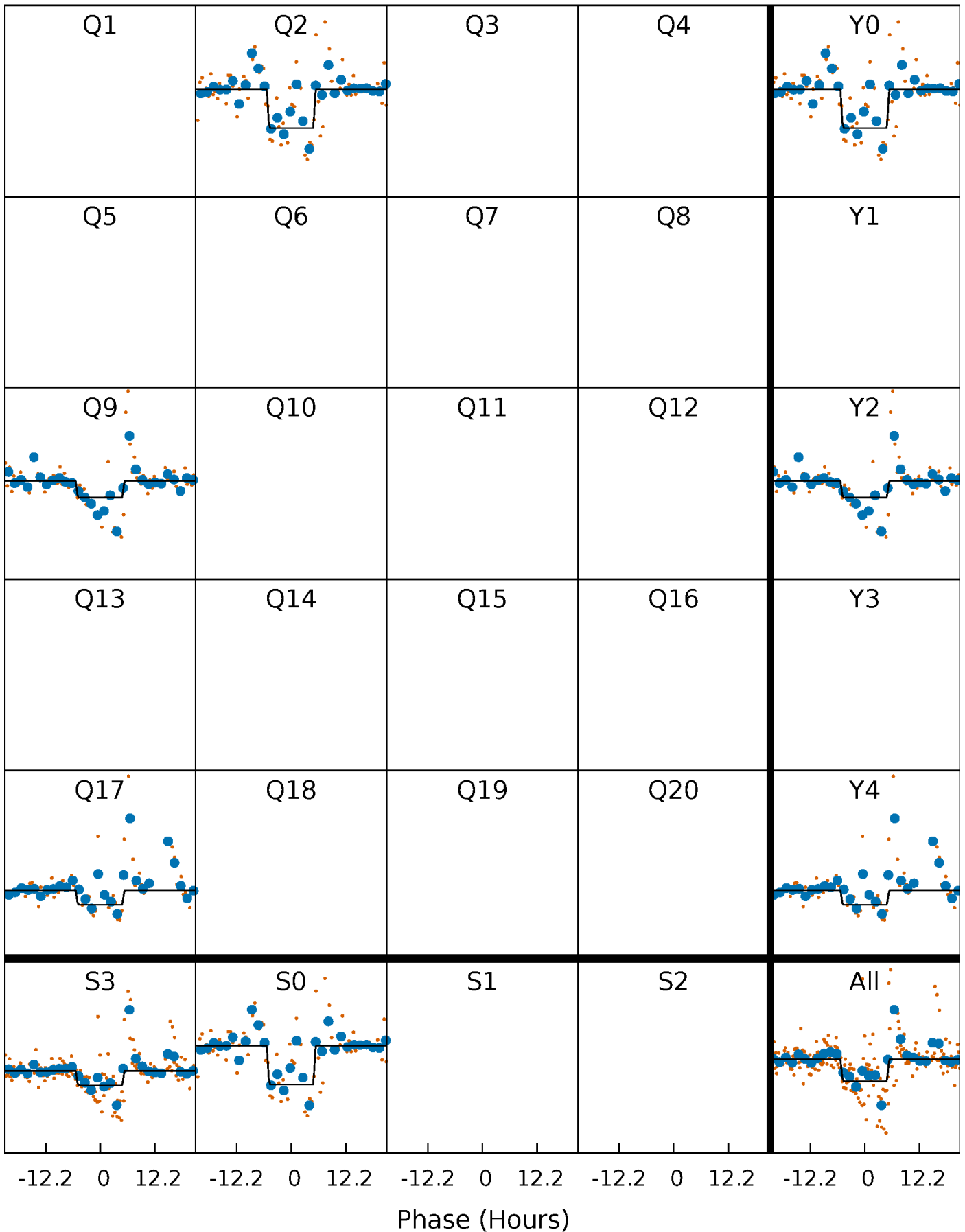
DV Quarter-Phased Transit Curves

TCE 003526481-04 $P=672.740070$ Days $T_0=221.443926$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

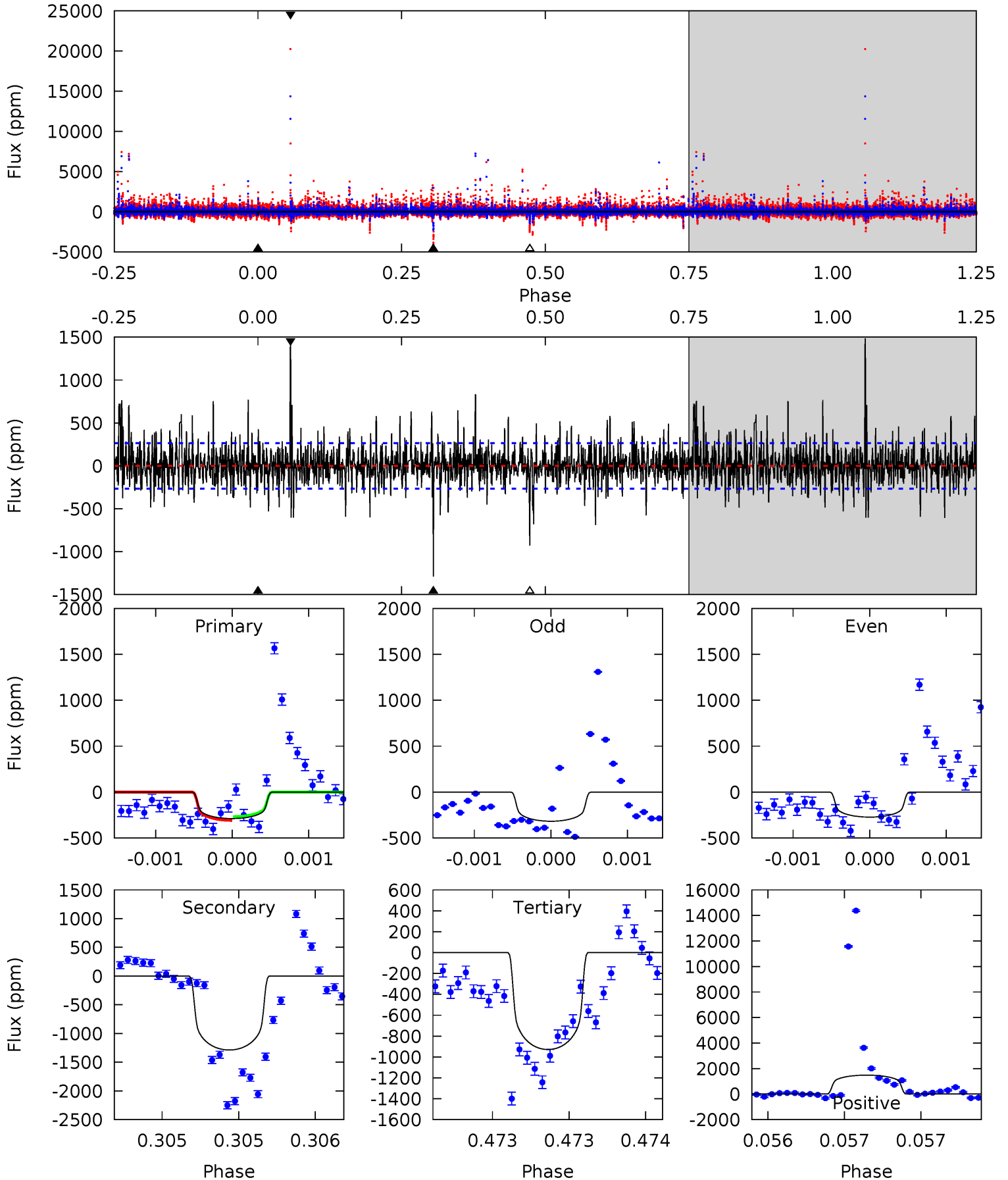
TCE 003526481-04 $P=672.747718$ Days $T_0=221.394058$ (BKJD)



DV Model-Shift Uniqueness Test

003526481-04, P = 672.740070 Days, E = 221.443926 Days

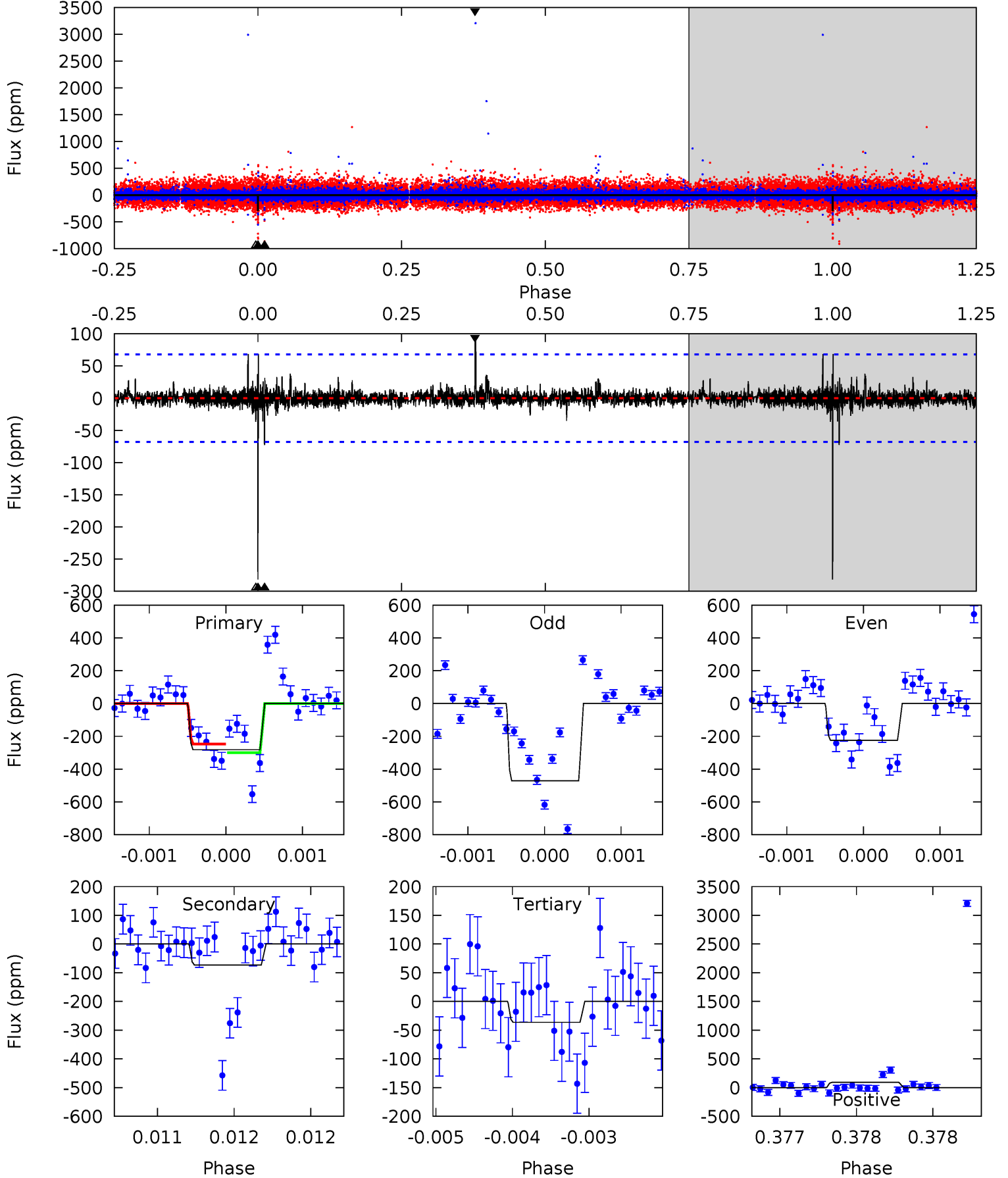
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.04	27.0	19.5	31.1	5.55	3.45	3.44	-13.4	-25.1	7.52	-4.15	0.26	0.83	0.54	0.43



Alt Model-Shift Uniqueness Test

003526481-04, P = 672.747718 Days, E = 221.394058 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.9	5.91	2.95	7.40	5.52	3.40	0.57	20.0	15.5	2.96	-1.49	8.28	1.18	0.24	2.12



Stellar Parameters For KIC 003526481

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5687^{+170}_{-153}	$3.760^{+0.584}_{-0.146}$	$0.180^{+0.200}_{-0.300}$	$2.572^{+0.628}_{-1.466}$	$1.387^{+0.134}_{-0.402}$	$0.115^{+0.870}_{-0.045}$
	+3%/-3%	+16%/-4%	+111%/-167%	+24%/-57%	+10%/-29%	+758%/-40%
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 003526481-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1288 ± 48	$5.38^{+2.14}_{-2.02}$	424^{+35}_{-73}	7412^{+1790}_{-1024}	$67532^{+103333}_{-32266}$
Alt.	-73 ± 12	$4.08^{+1.94}_{-1.87}$	426^{+35}_{-63}	4302^{+971}_{-457}	6495^{+14462}_{-3564}

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 $A_{obs} \gg 1.0$

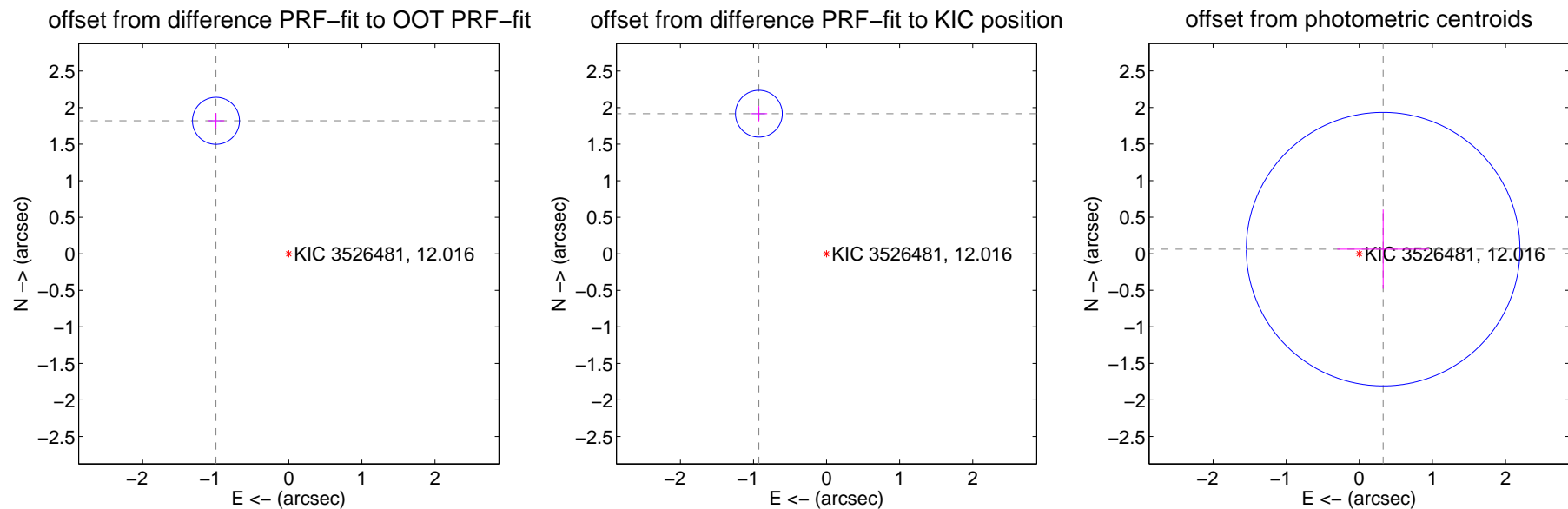
DV Centroid Data

Supplemental centroid analysis for 003526481-04. Kepler magnitude: 12.02. Transit SNR 5.02

There are 1 quarters with good PRF difference image offsets

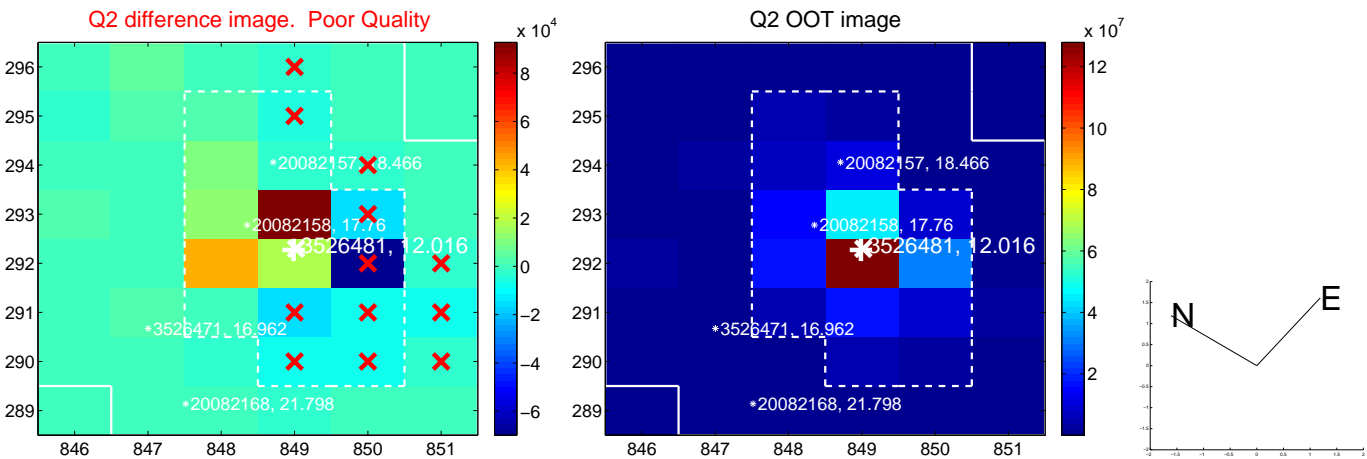
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.074 ± 0.107	19.35	0.996 ± 0.115	1.819 ± 0.105
PRF-fit source offset from KIC position	2.128 ± 0.107	19.94	0.926 ± 0.115	1.916 ± 0.105
photometric centroid source offset	0.33 ± 0.62	0.53	-0.33 ± 0.63	0.06 ± 0.54



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.

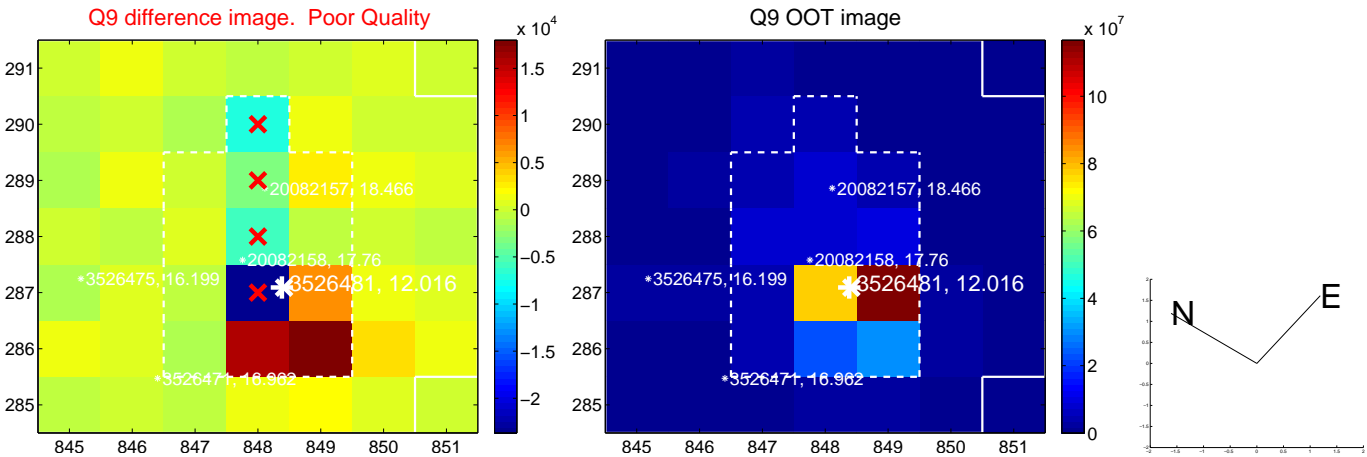
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



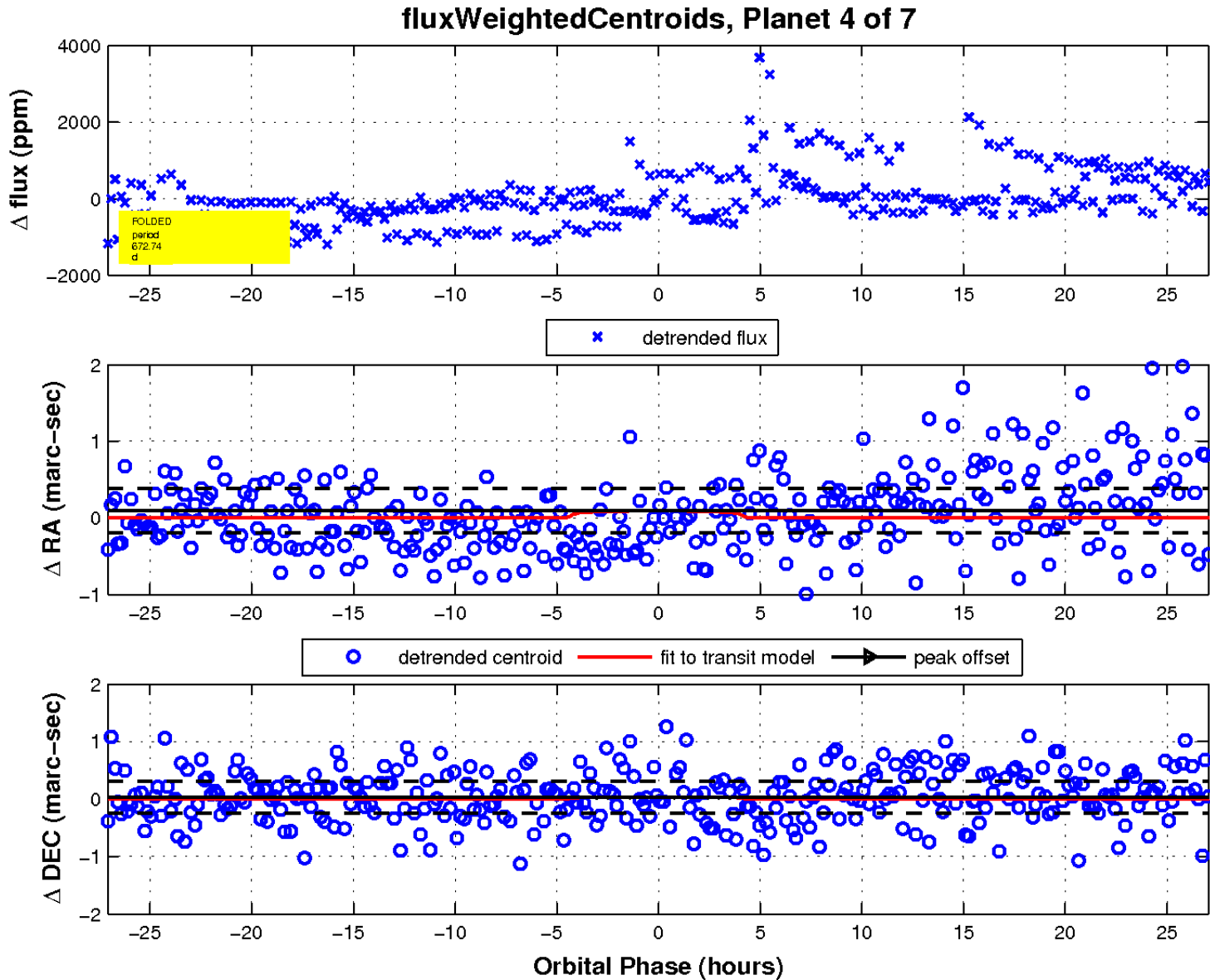
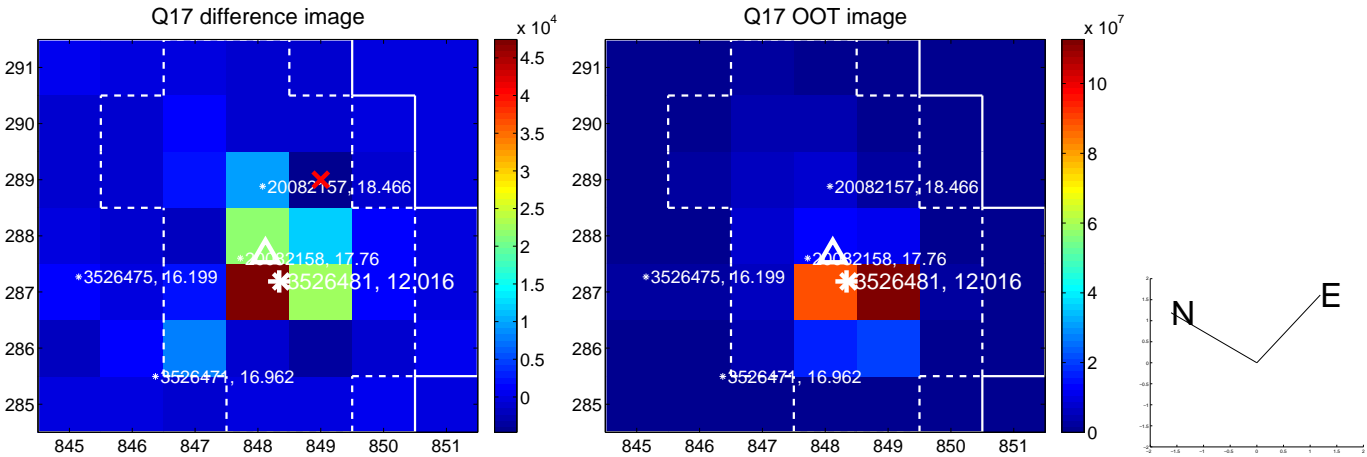
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

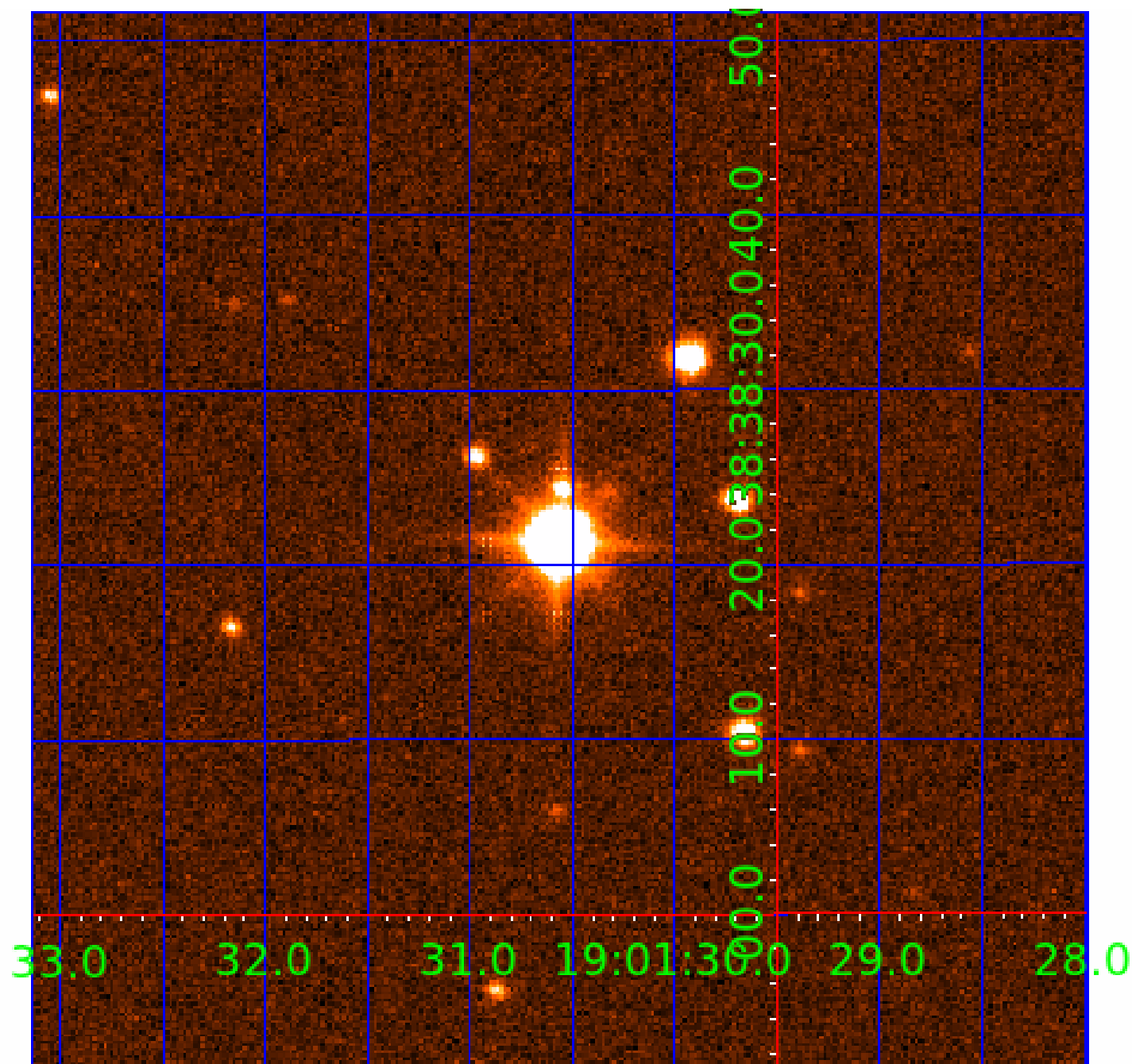


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003526481

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})
003526481-01	OBS	No	485.655832	531.340454	836.7	6.461	18.8	9.5	2.57	5687	7.55	3.40
003526481-02	OBS	No	216.709560	329.941623	569.4	5.482	15.8	8.3	2.57	5687	6.37	9.99
003526481-03	OBS	No	537.615779	498.514962	739.6	10.436	13.9	6.6	2.57	5687	12.71	2.97
003526481-04	OBS	No	672.740070	221.443925	413.0	9.031	13.5	5.0	2.57	5687	5.94	2.21
003526481-05	OBS	No	435.580175	552.016674	588.3	5.323	12.6	7.7	2.57	5687	7.00	3.94
003526481-06	OBS	No	329.712428	435.836924	563.2	17.565	11.6	7.0	2.57	5687	6.26	5.71
003526481-07	OBS	No	229.171012	246.407054	308.8	3.000	11.8	-1.0	2.57	5687	4.46	9.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003526481-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
003526481-06	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
003526481-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—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.

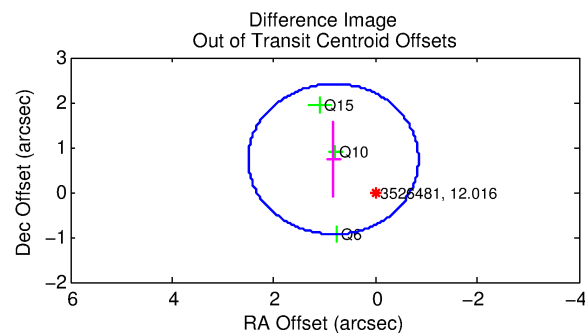
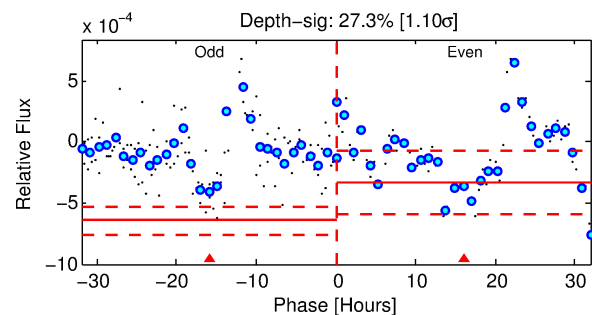
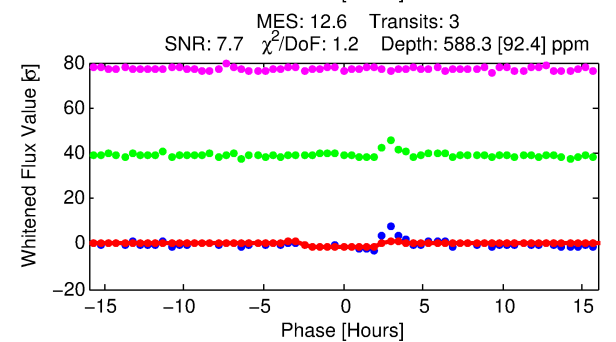
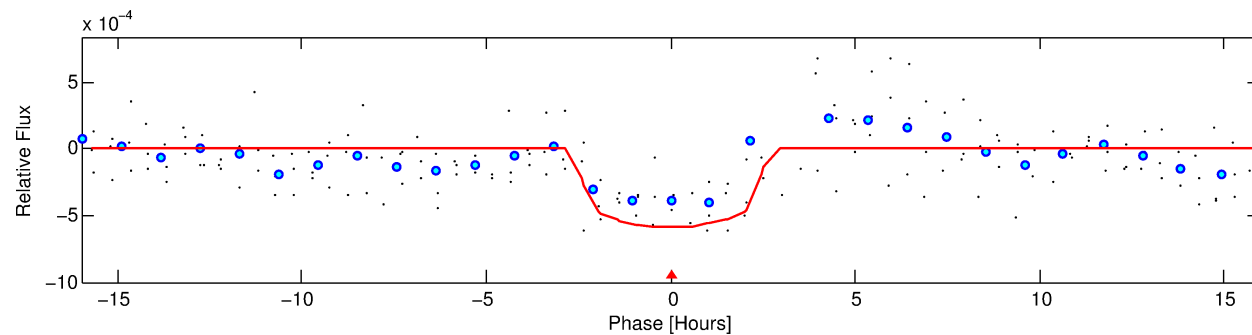
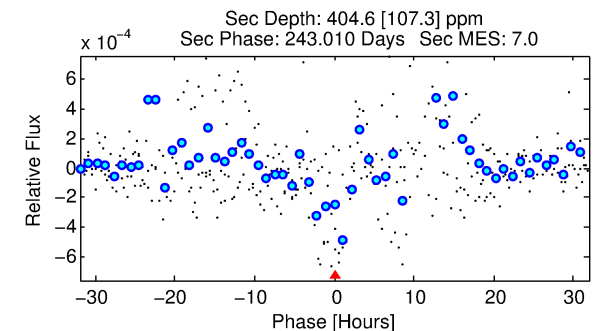
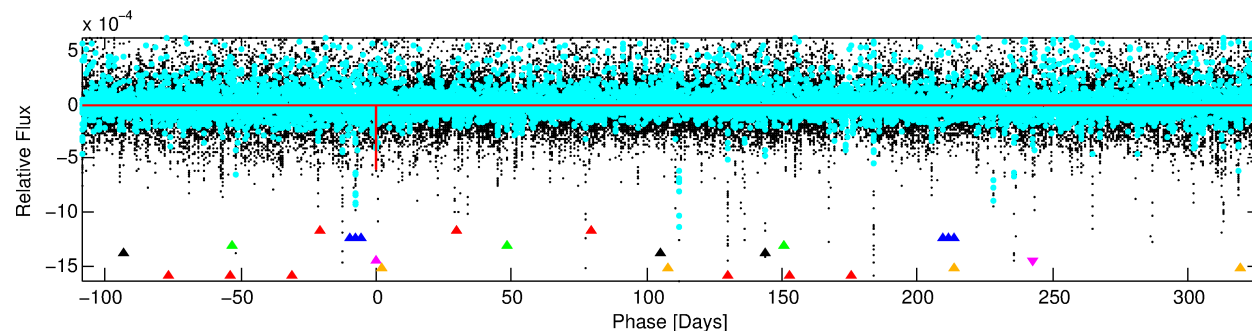
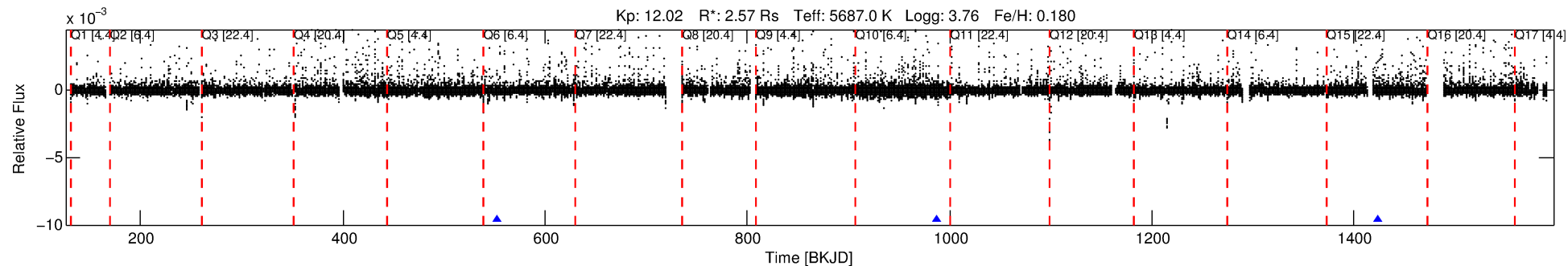
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003526481-05

No Significant Match Found

DV One-Page Summary

KIC: 3526481 Candidate: 5 of 7 Period: 435.580 d



DV Fit Results:

Period = 435.58018 [0.00459] d
Epoch = 552.0167 [0.0062] BKJD
Rp/R* = 0.0249 [0.0244]
a/R* = 386.47 [1674.86]
b = 0.82 [1.78]
Seff = 3.94 [3.86]
Teq = 359 [88] K
Rp = 7.00 [7.93] Re
a = 1.2548 [0.7374] AU
Ag = 7155.63 [15767.65] [0.45 σ]
Teffp = 5108 [2529] K [1.88 σ]

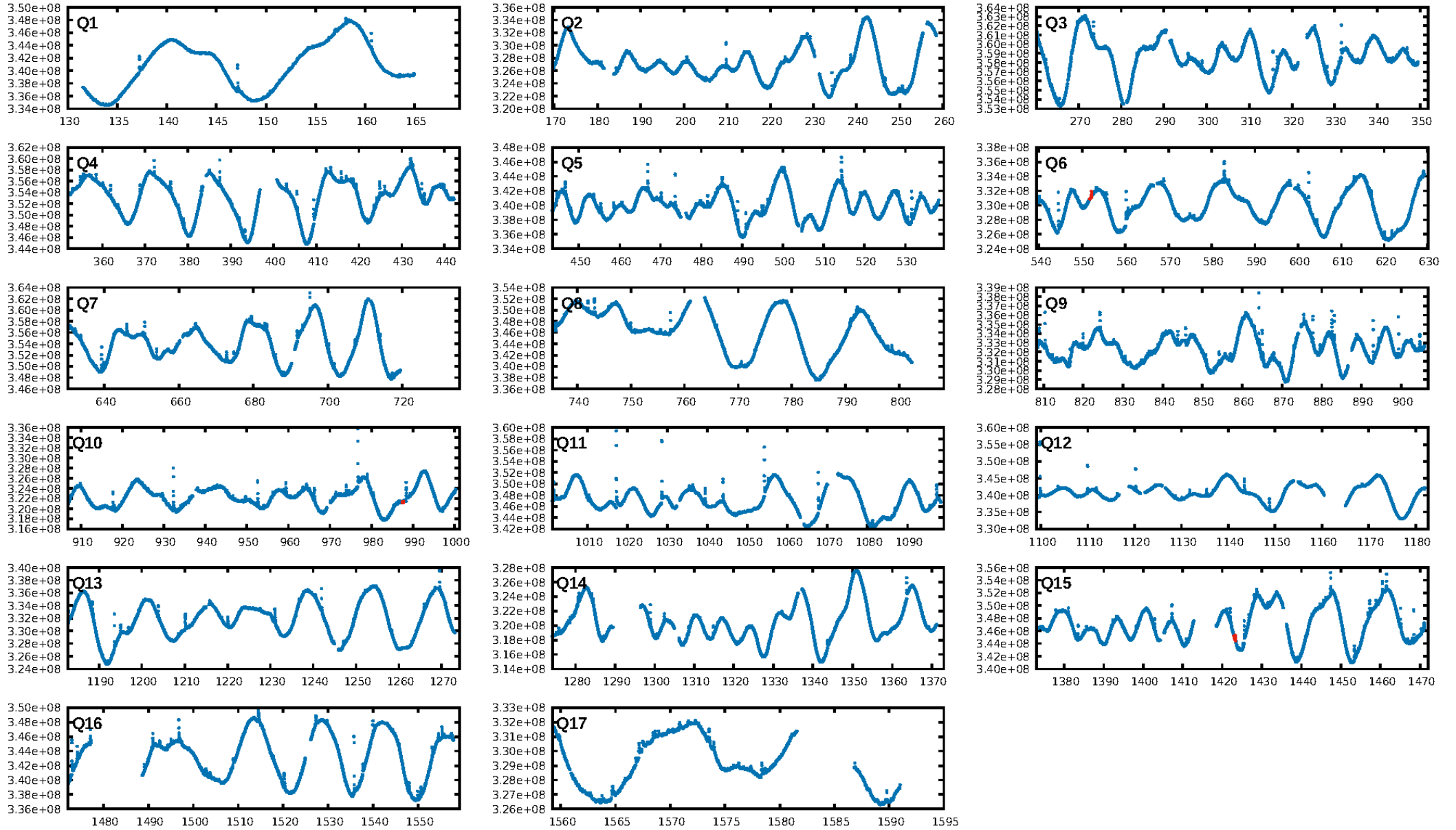
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [138.44 σ]
LongPeriod-sig: 100.0% [143.57 σ]
ModelChiSquare2-sig: 21.9%
ModelChiSquareGof-sig: 95.6%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.2691
Centroid-sig: 55.3%
Centroid-so: 0.431 arcsec [0.79 σ]
OotOffset-rm: 1.107 arcsec [1.98 σ]
OotOffset-st: 2/1/0/0 [3]
KicOffset-rm: 1.099 arcsec [1.78 σ]
KicOffset-st: 2/1/0/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

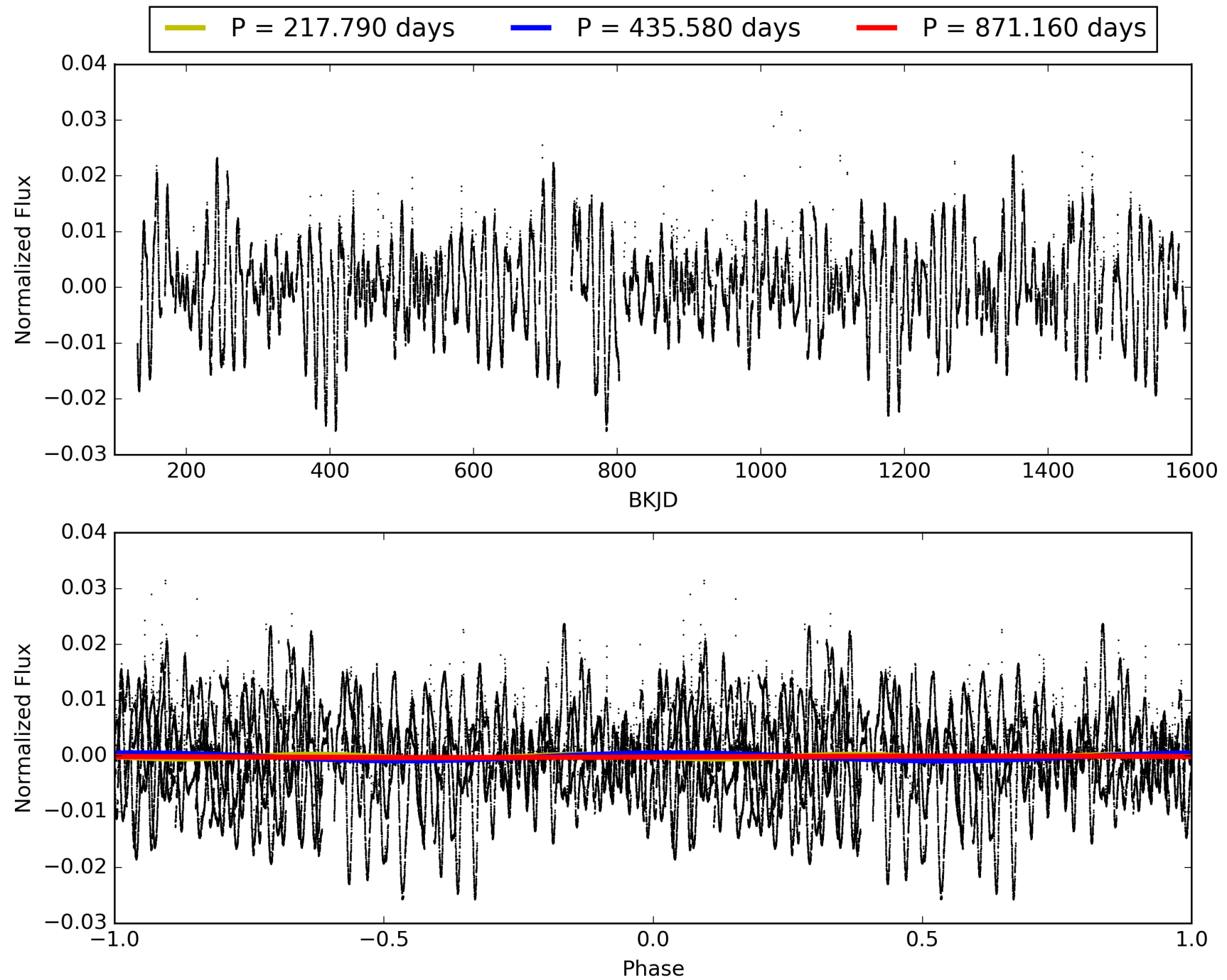
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:13:06 Z

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

TCE 003526481-05, PDC Light Curves

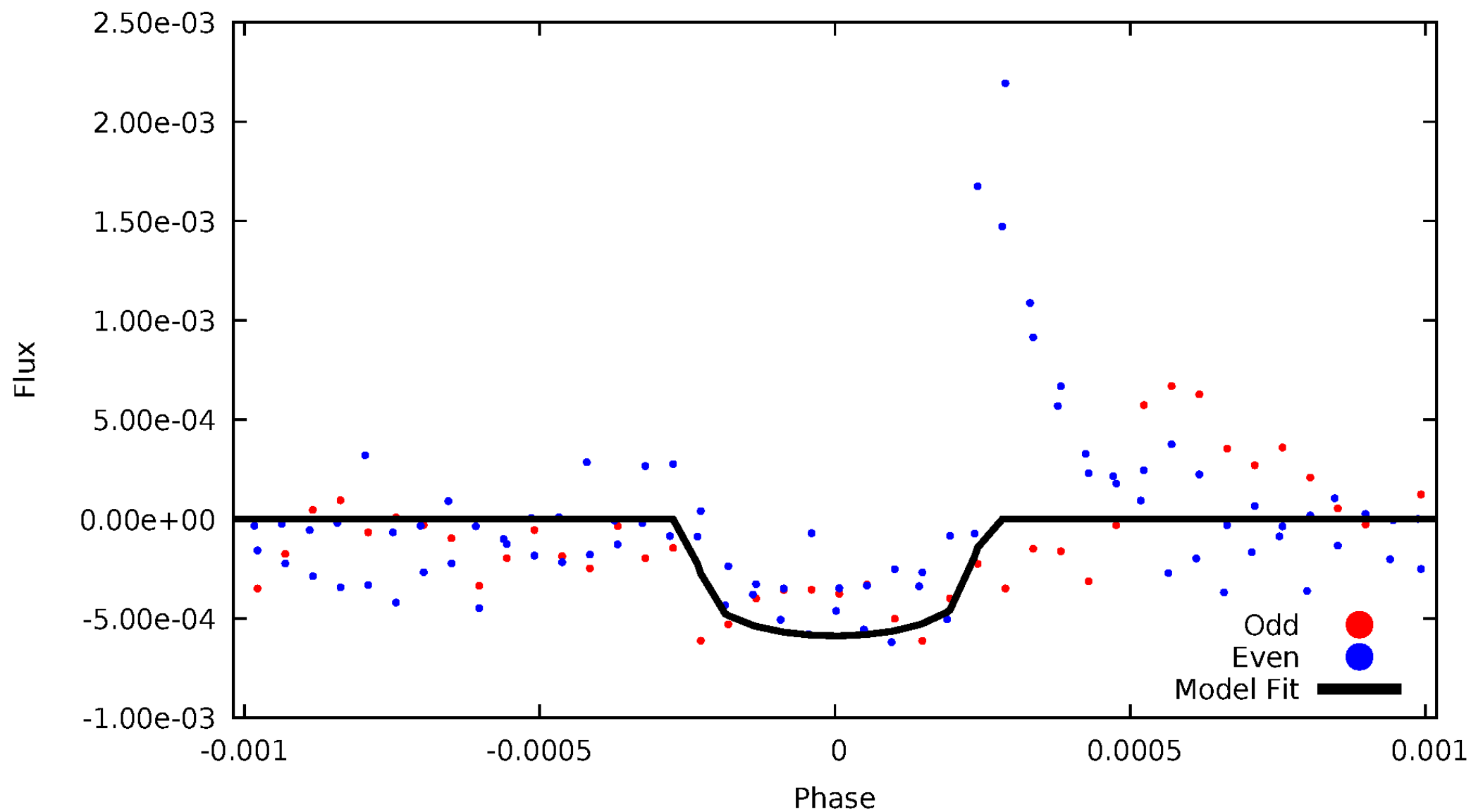


TCE 003526481-05



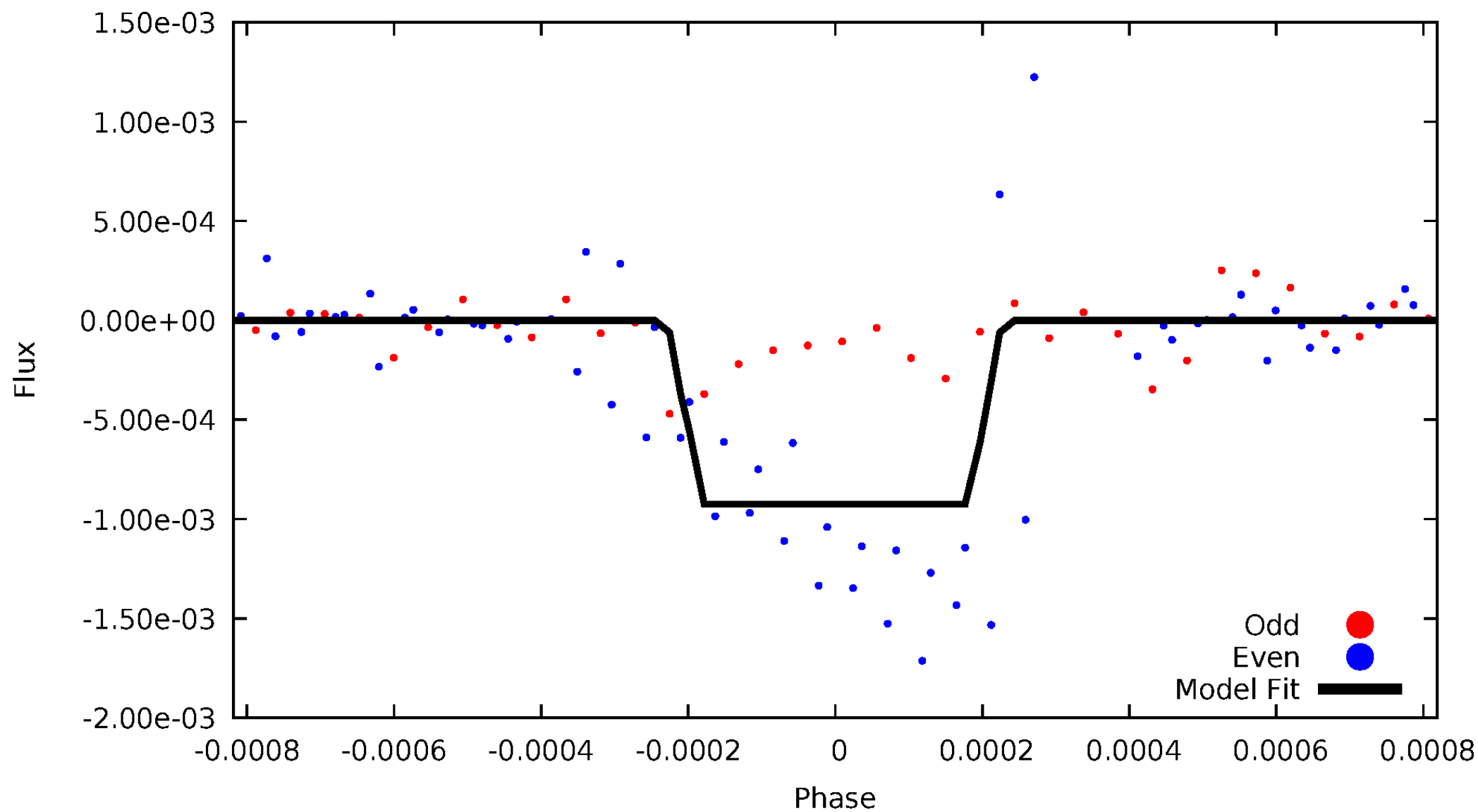
DV Odd/Even

TCE 003526481-05



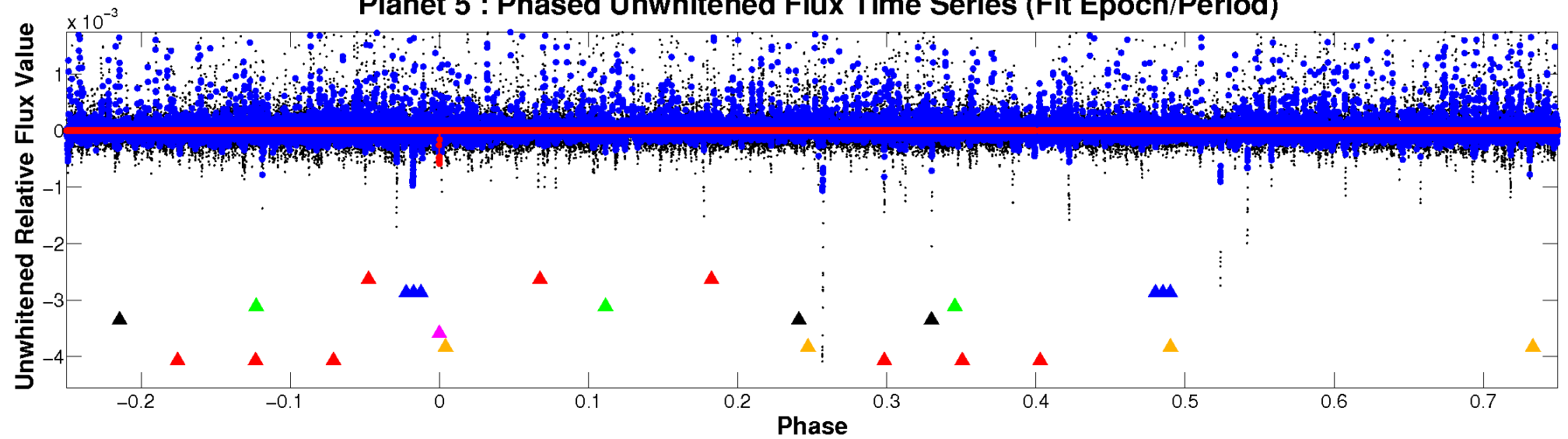
ALT Odd/Even

TCE 003526481-05

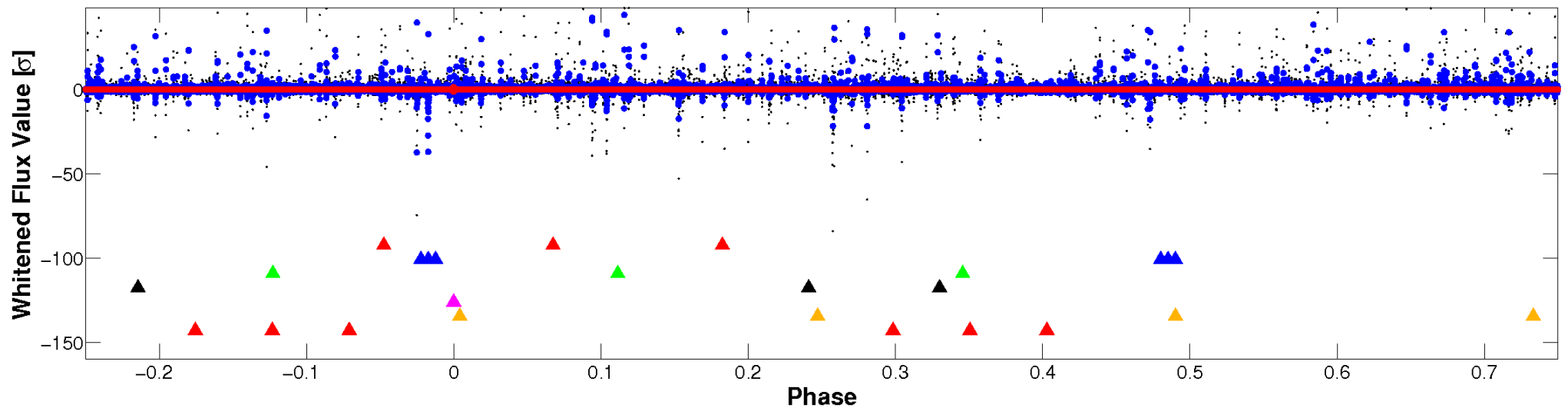


Non-Whitened Vs. Whitened Light Curve

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

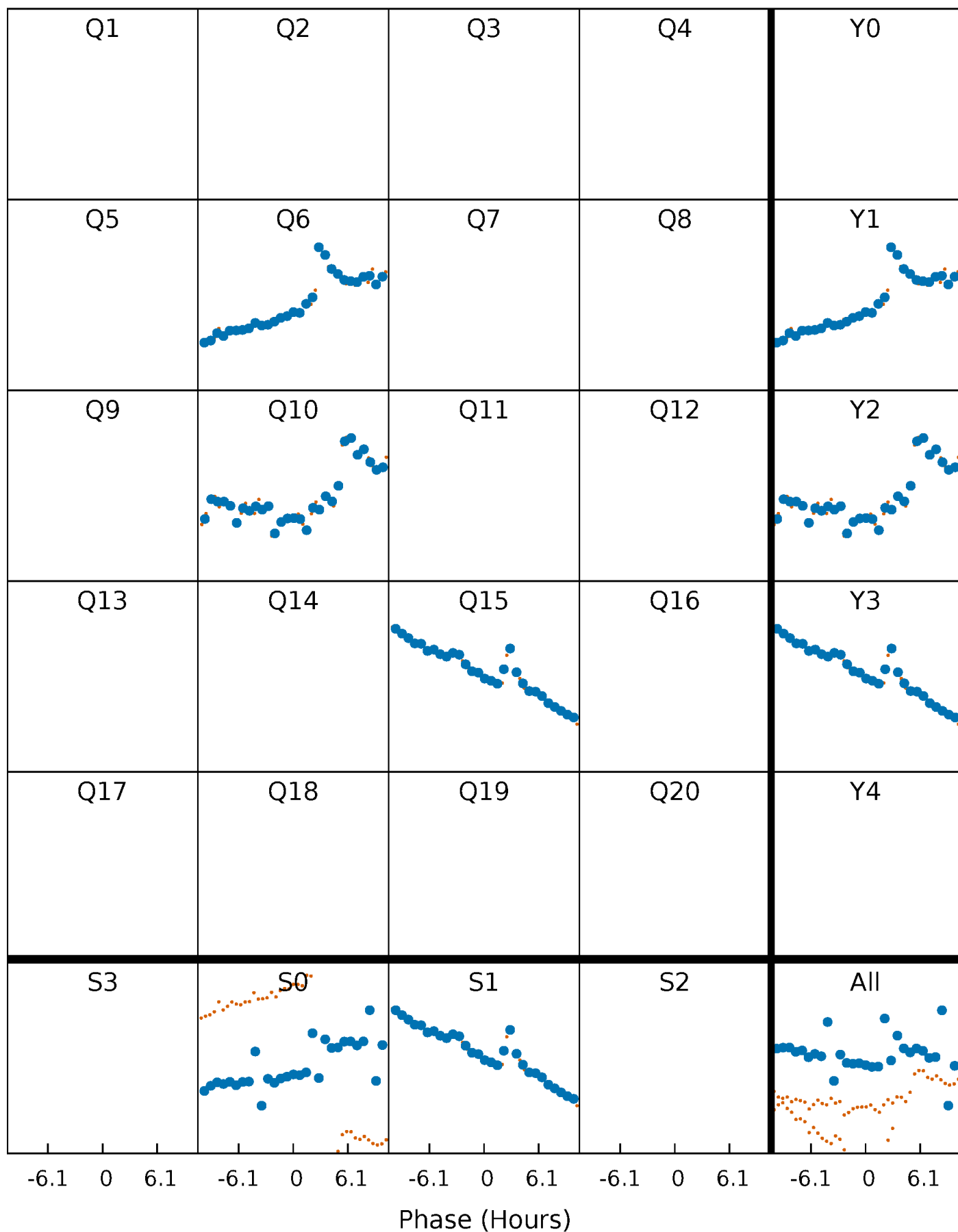


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



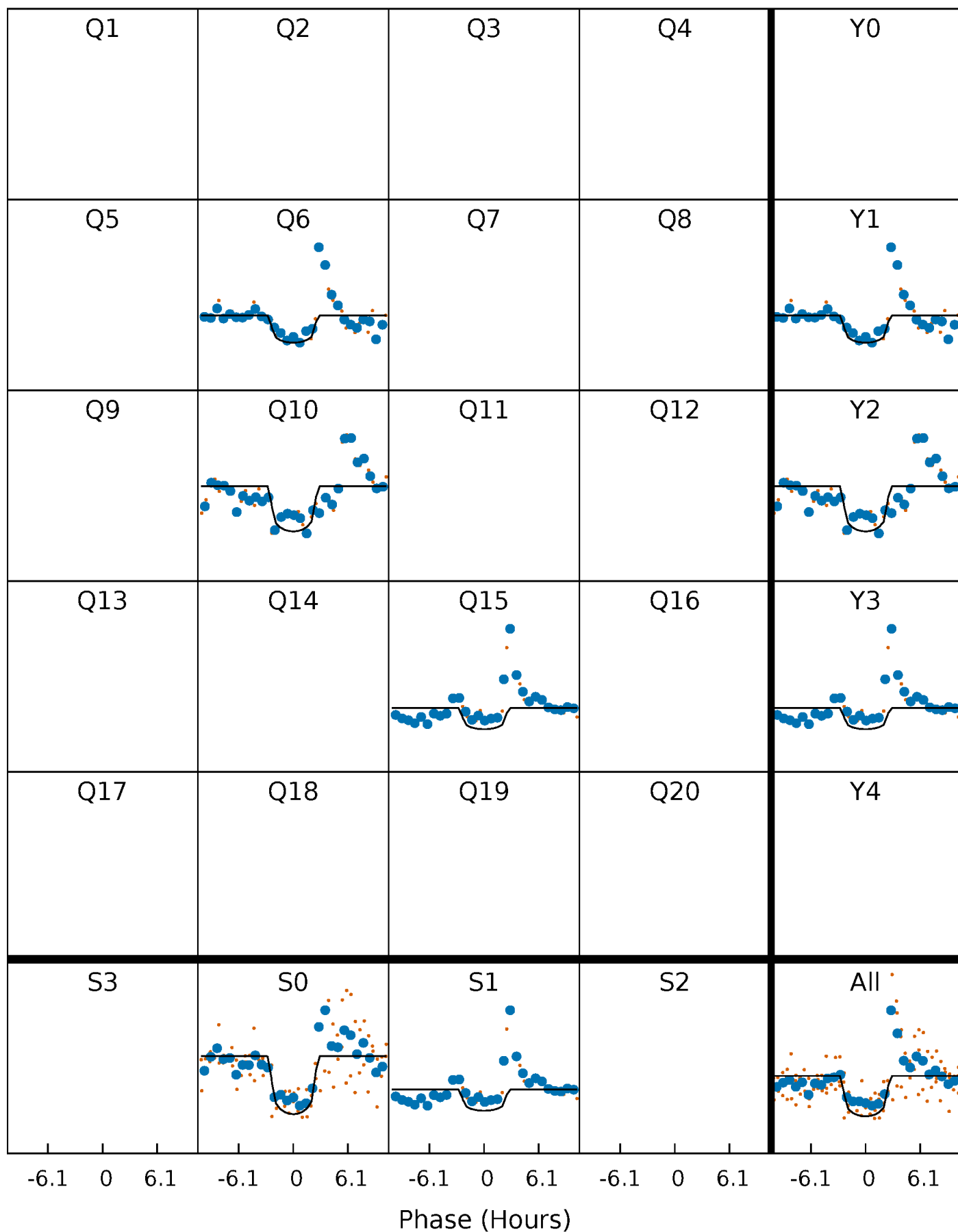
PDC Quarter-Phased Transit Curves

TCE 003526481-05 $P=435.580175$ Days $T_0=552.016674$ (BKJD)



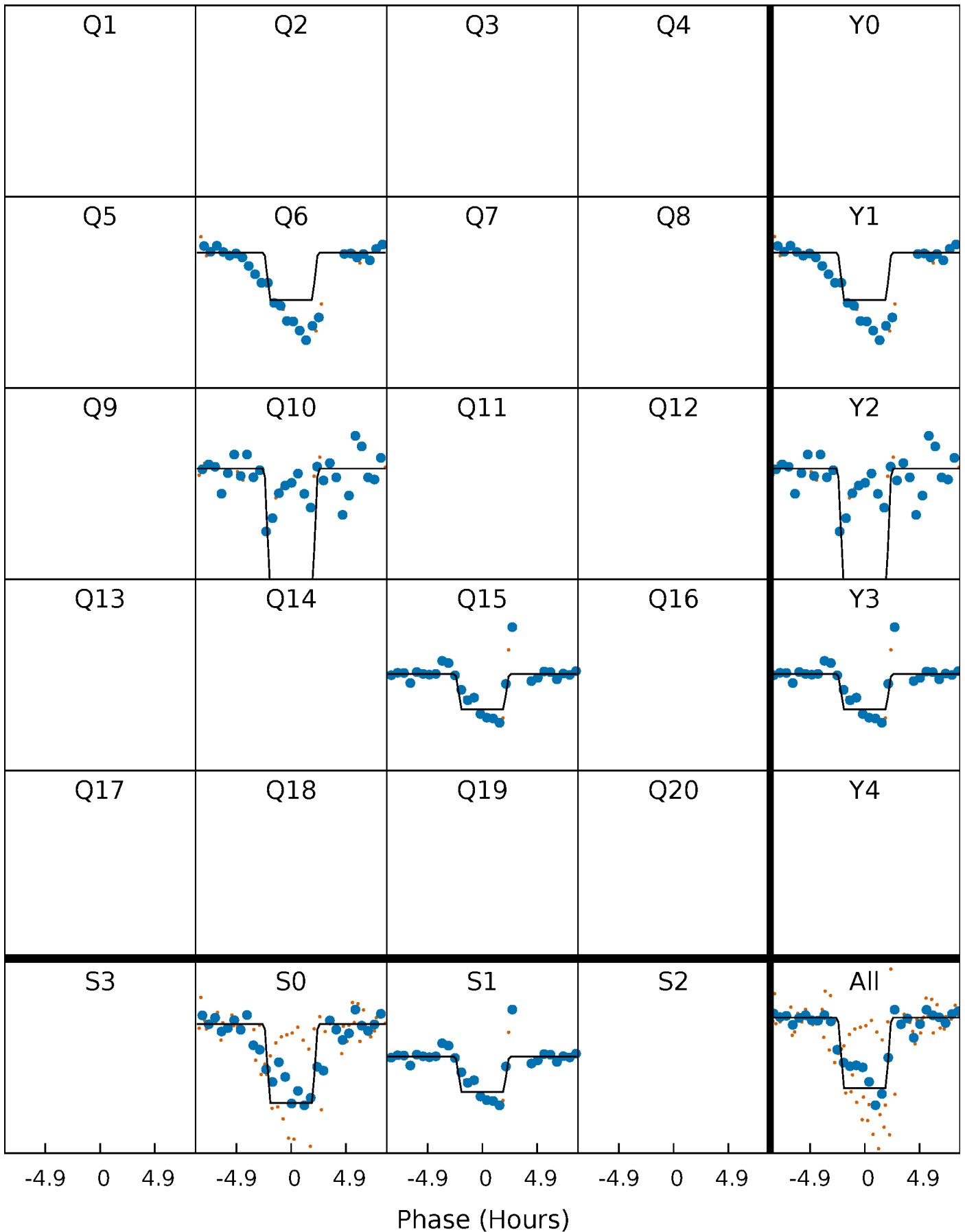
DV Quarter-Phased Transit Curves

TCE 003526481-05 $P=435.580175$ Days $T_0=552.016674$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

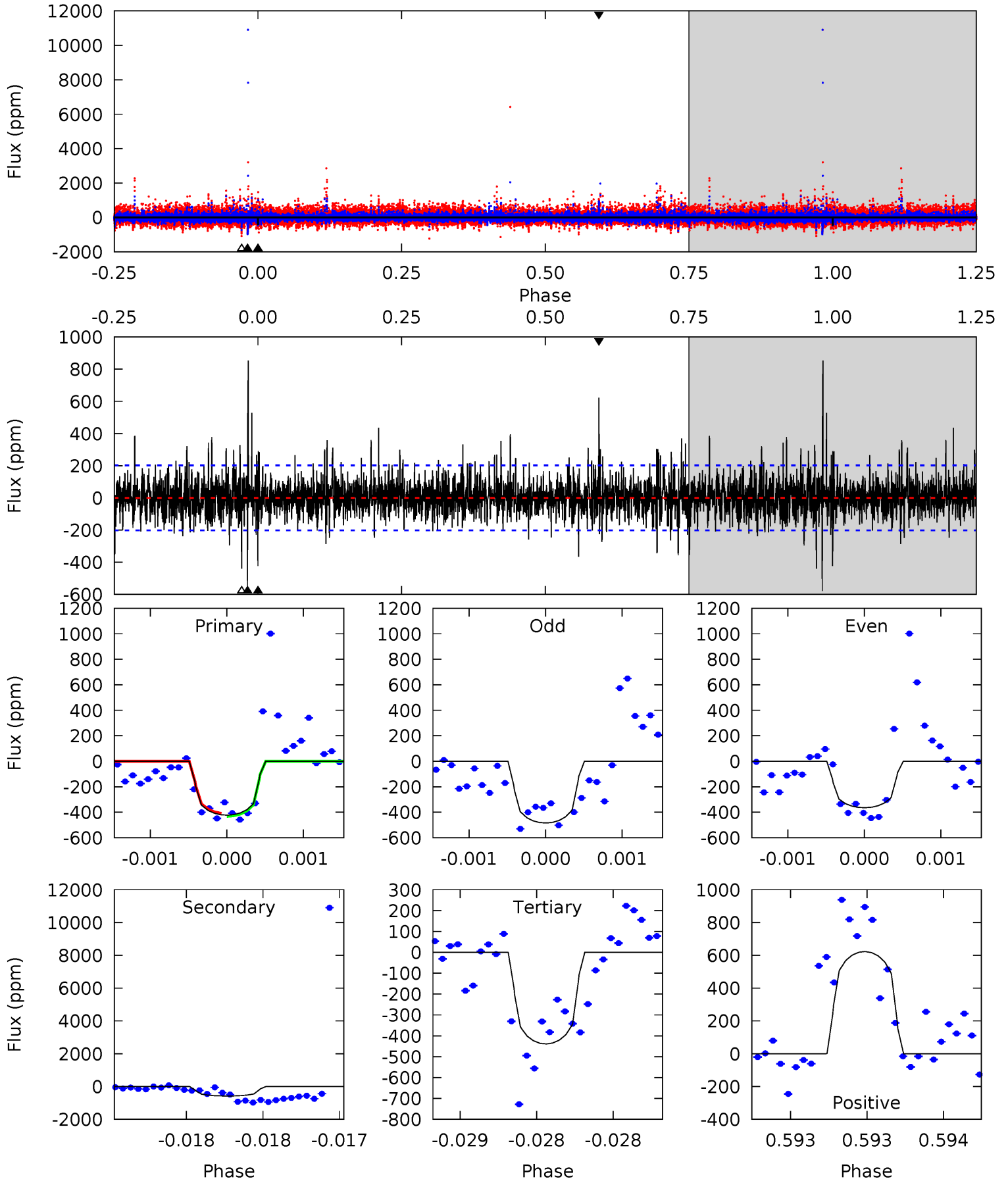
TCE 003526481-05 $P=435.589010$ Days $T_0=552.006962$ (BKJD)



DV Model-Shift Uniqueness Test

003526481-05, P = 435.580175 Days, E = 116.436499 Days

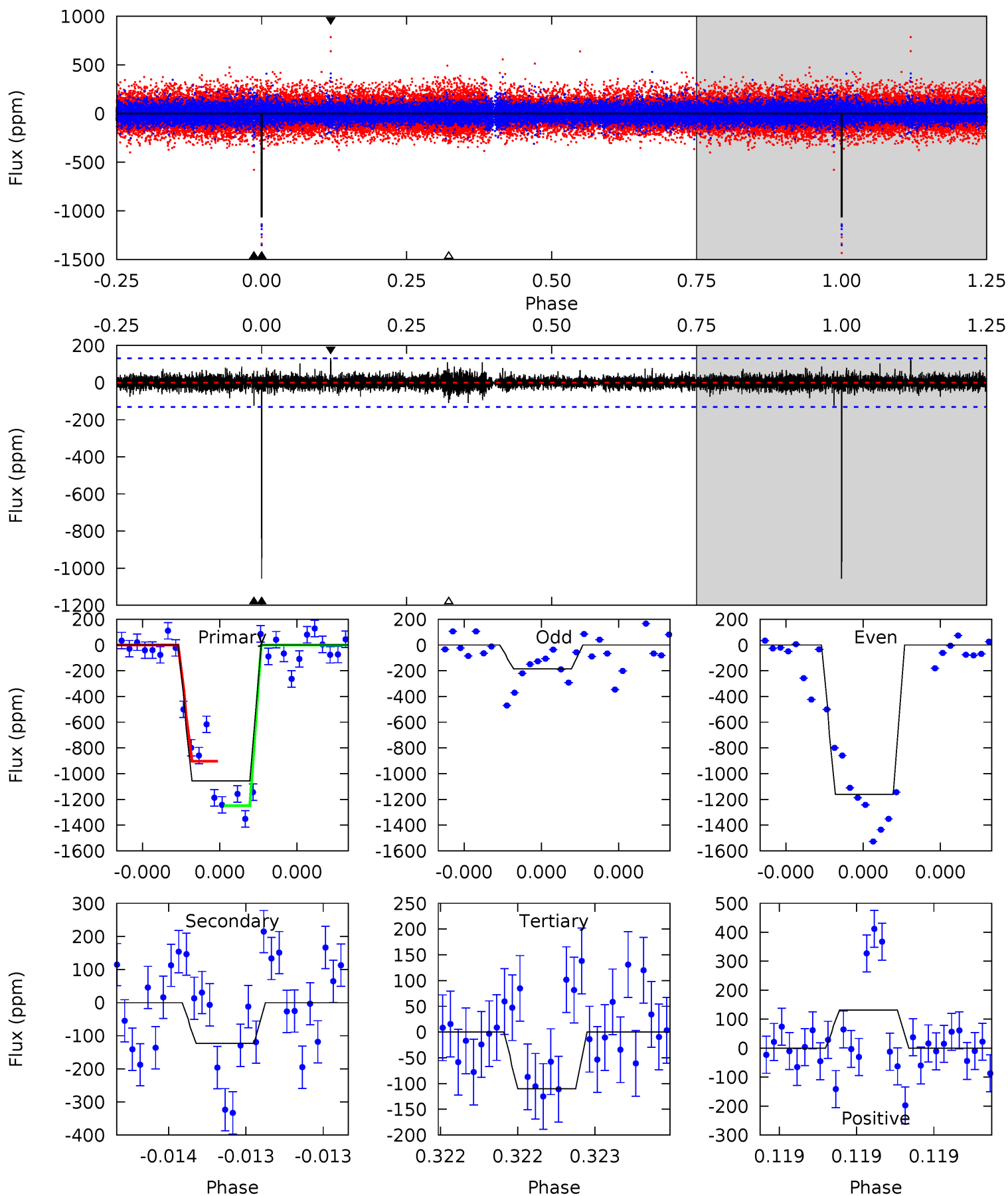
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.6	15.9	12.1	17.1	5.55	3.45	2.36	-0.45	-5.51	3.84	-1.22	0.78	0.84	0.60	0.33



Alt Model-Shift Uniqueness Test

003526481-05, P = 435.589010 Days, E = 116.417952 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
45.0	5.25	4.69	5.60	5.59	3.51	0.77	40.3	39.4	0.56	-0.35	23.6	0.87	0.11	7.32



Stellar Parameters For KIC 003526481

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5687^{+170}_{-153}	$3.760^{+0.584}_{-0.146}$	$0.180^{+0.200}_{-0.300}$	$2.572^{+0.628}_{-1.466}$	$1.387^{+0.134}_{-0.402}$	$0.115^{+0.870}_{-0.045}$
	+3%/-3%	+16%/-4%	+111%/-167%	+24%/-57%	+10%/-29%	+758%/-40%
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 003526481-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-578 ± 36	$6.90^{+6.45}_{-4.11}$	488^{+45}_{-73}	5199^{+2949}_{-1053}	9625^{+53045}_{-6933}
Alt.	-123 ± 23	$8.24^{+6.54}_{-5.27}$	490^{+44}_{-71}	3718^{+1672}_{-582}	1533^{+10188}_{-1082}

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 $A_{obs} \gg 1.0$

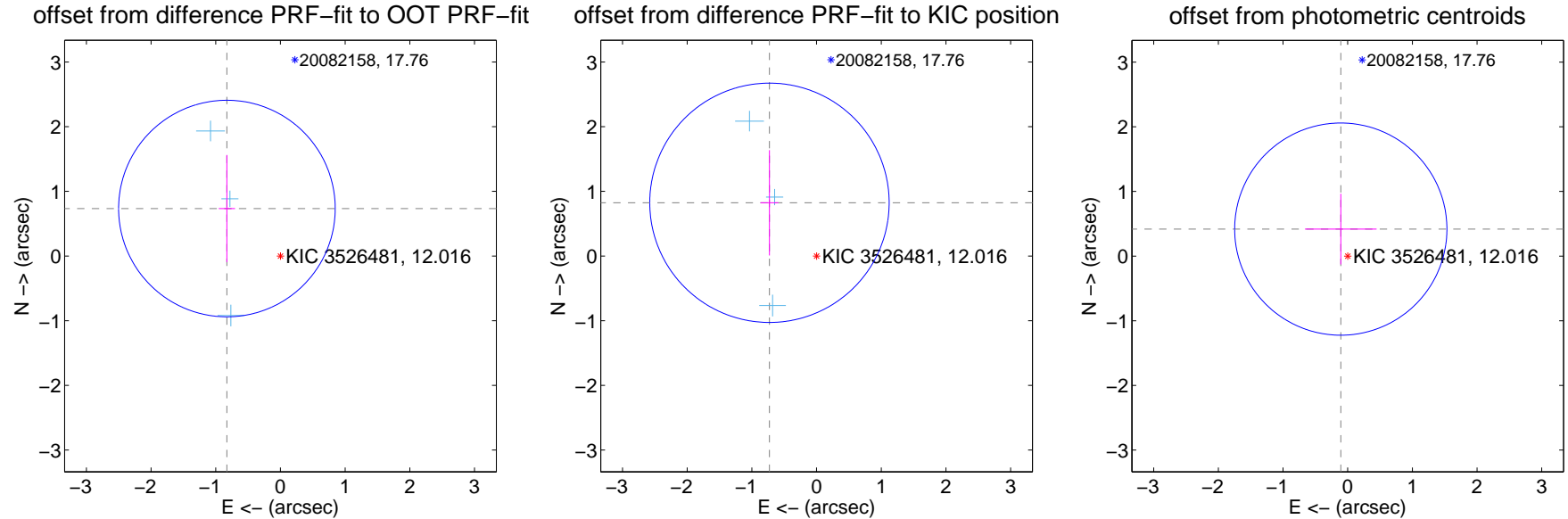
DV Centroid Data

Supplemental centroid analysis for 003526481-05. Kepler magnitude: 12.02. Transit SNR 7.74

There are 3 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	1.107 ± 0.558	1.98	0.828 ± 0.126	0.734 ± 0.829
PRF-fit source offset from KIC position	1.099 ± 0.617	1.78	0.729 ± 0.139	0.823 ± 0.814
photometric centroid source offset	0.43 ± 0.55	0.79	0.11 ± 0.55	0.42 ± 0.55

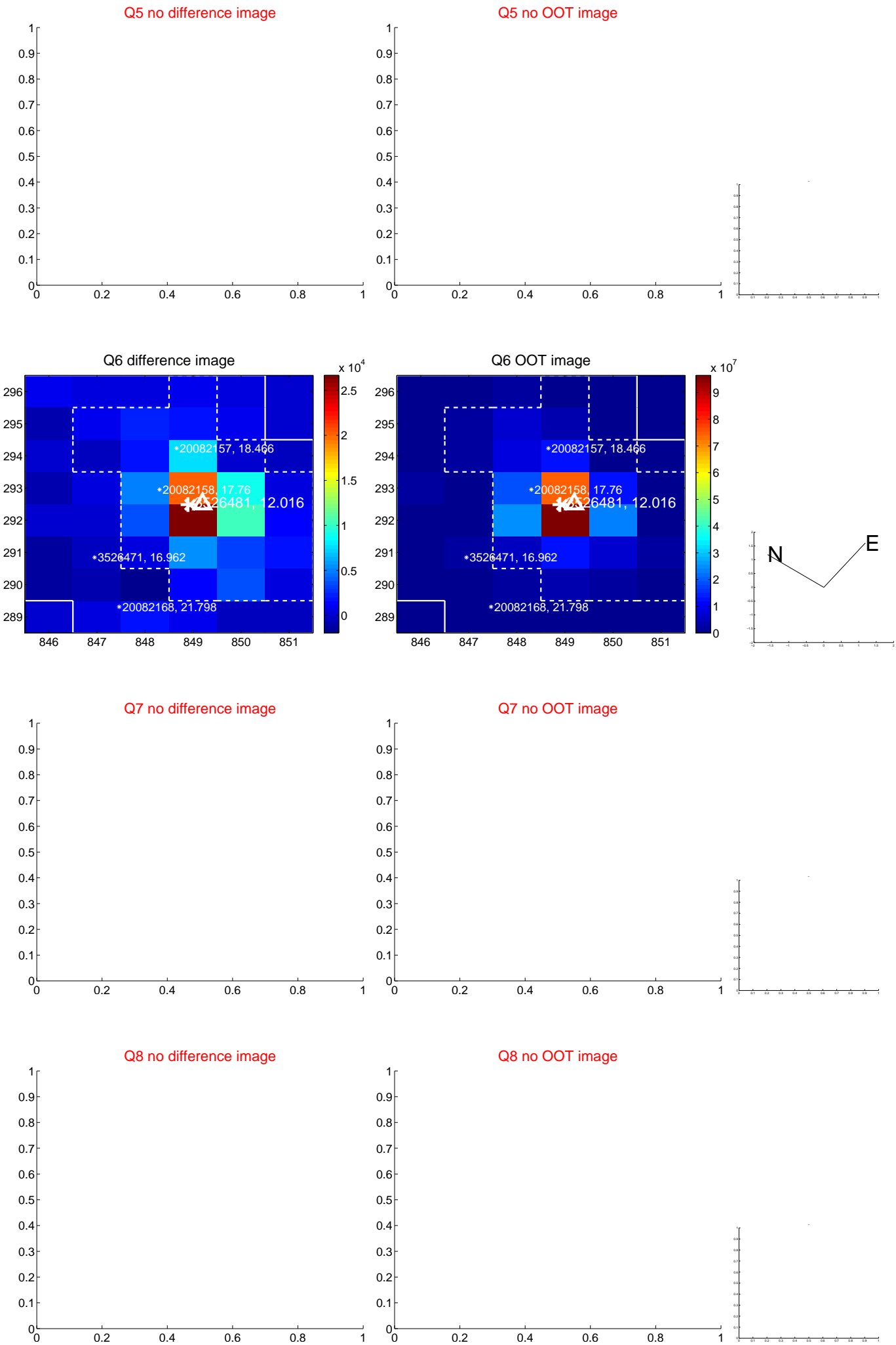


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

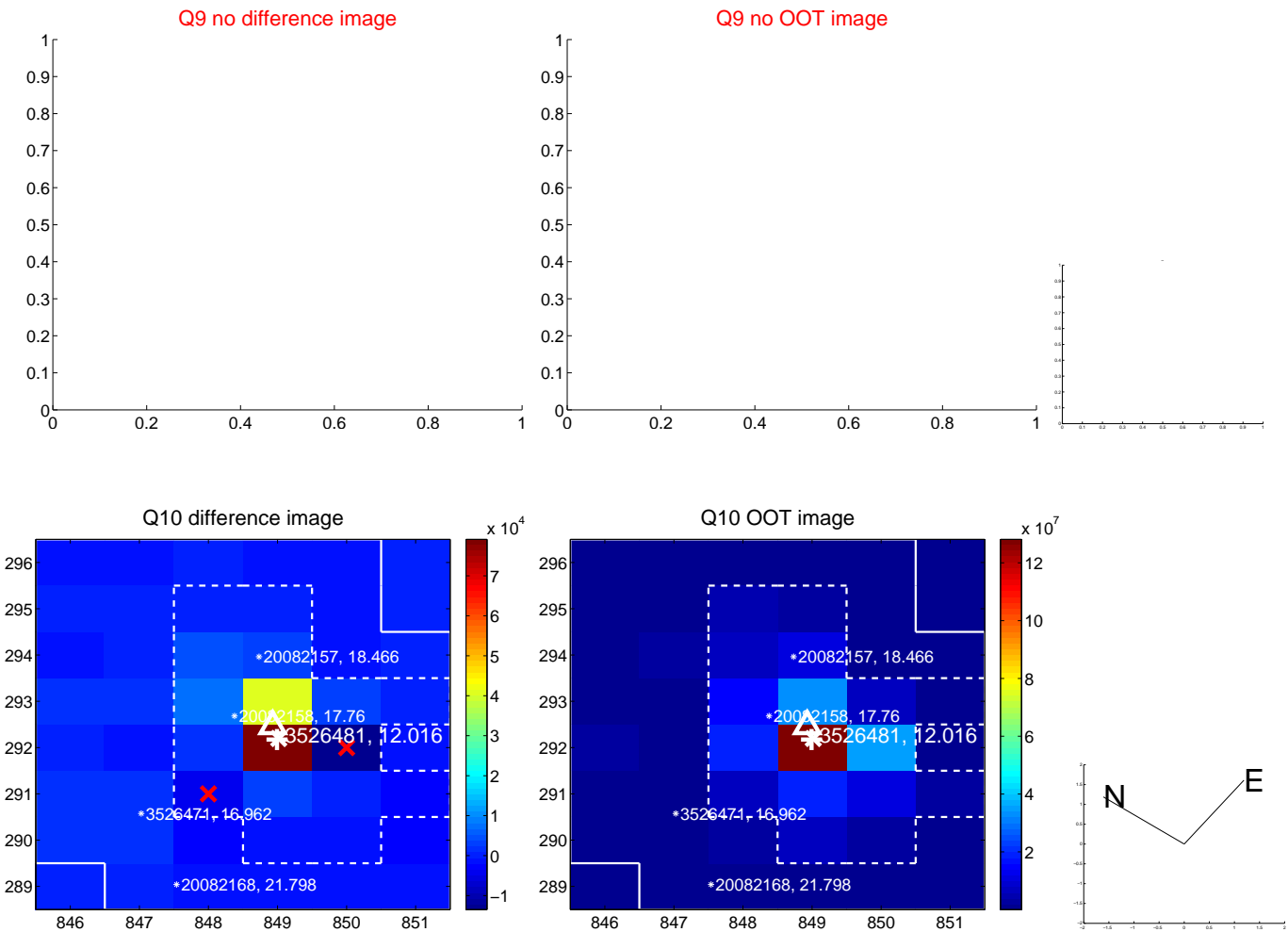
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.

Q13 no difference image



Q13 no OOT image



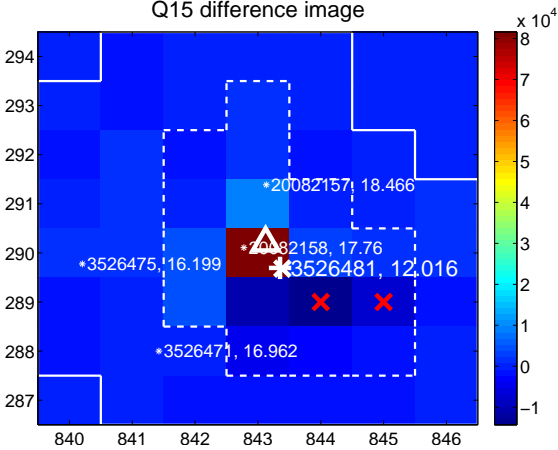
Q14 no difference image



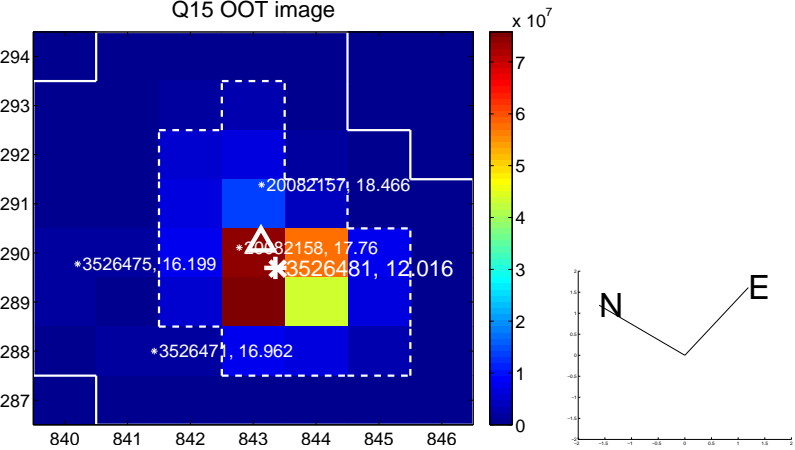
Q14 no OOT image



Q15 difference image



Q15 OOT image



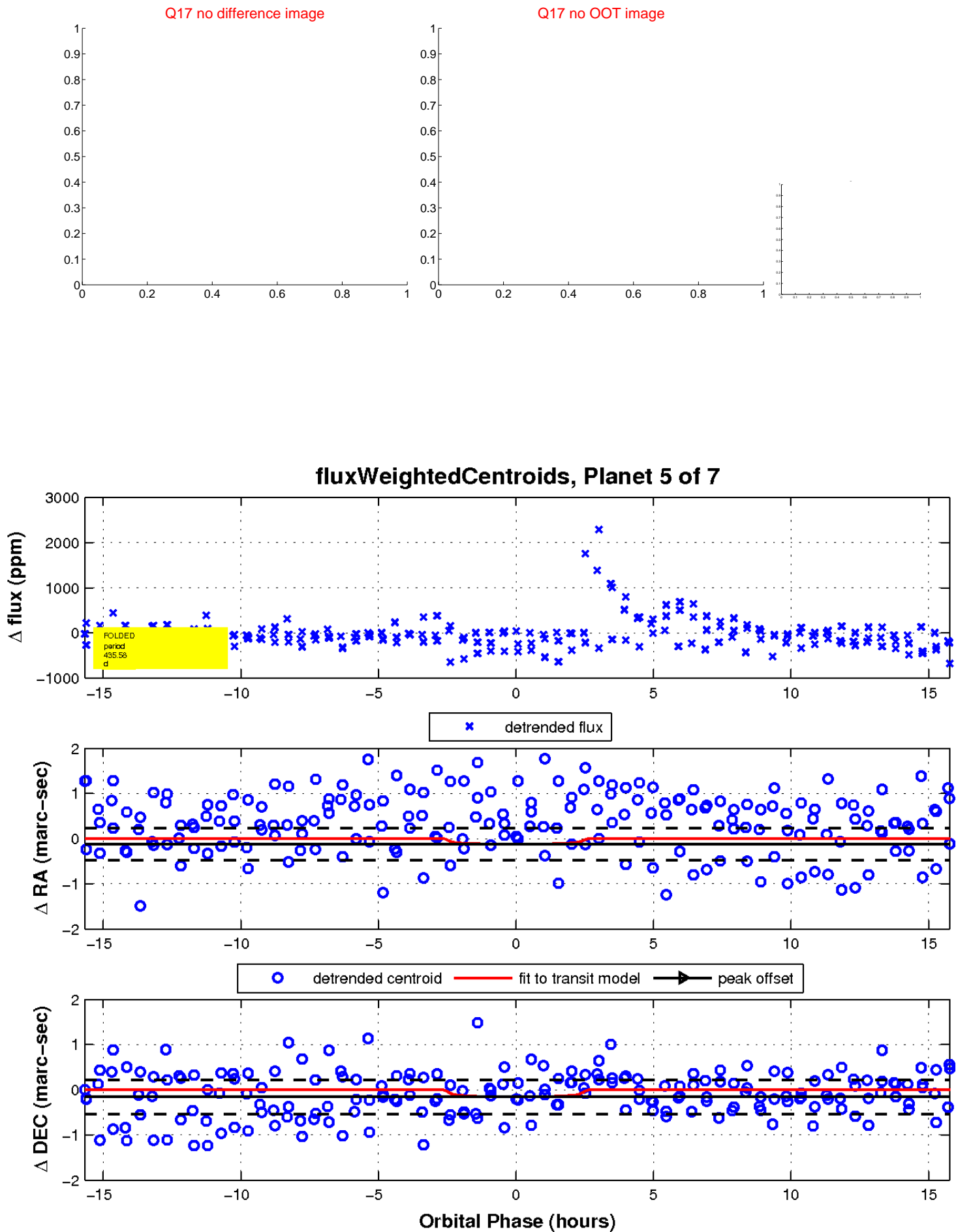
Q16 no difference image



Q16 no OOT image

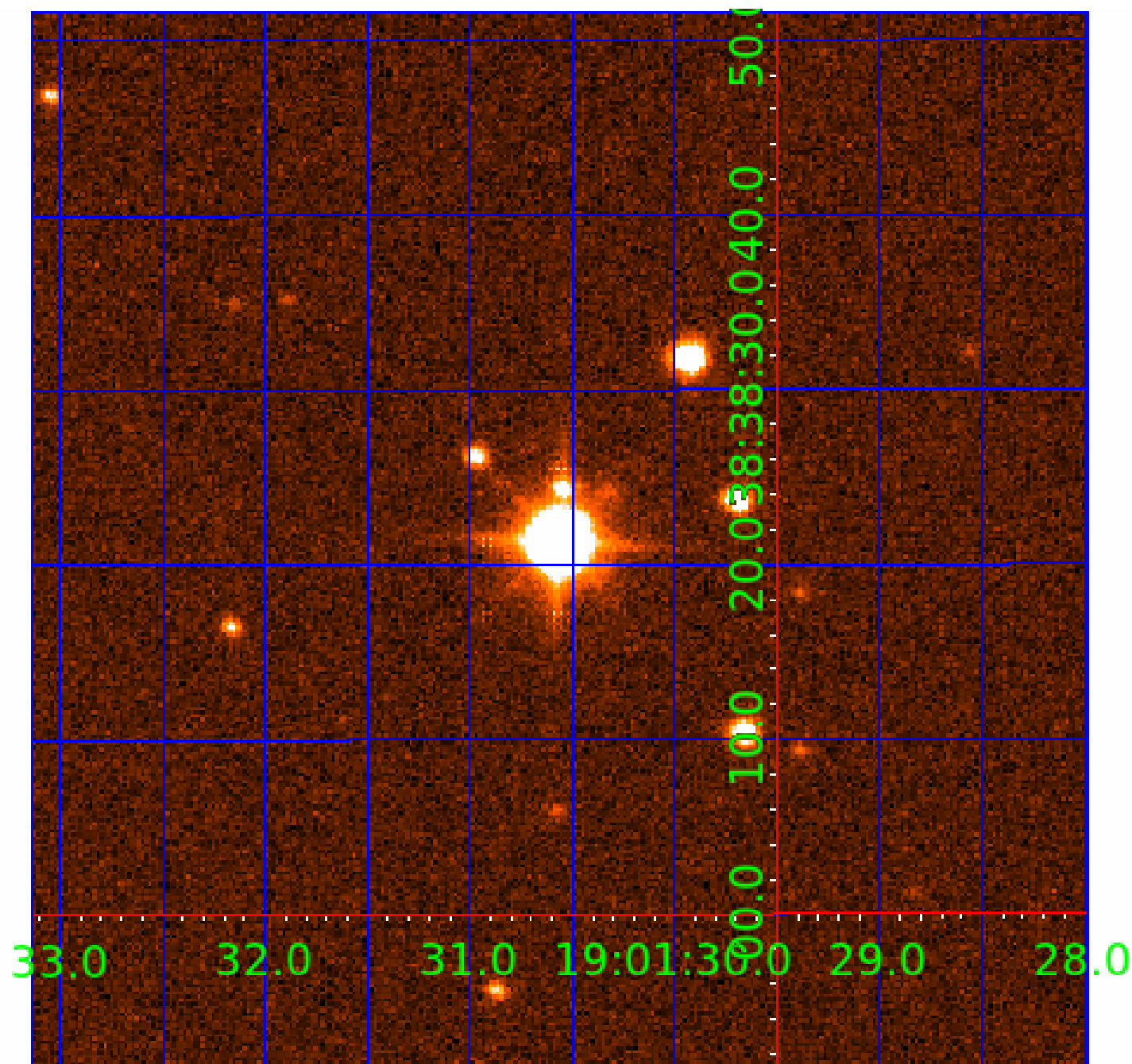


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003526481

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})
003526481-01	OBS	No	485.655832	531.340454	836.7	6.461	18.8	9.5	2.57	5687	7.55	3.40
003526481-02	OBS	No	216.709560	329.941623	569.4	5.482	15.8	8.3	2.57	5687	6.37	9.99
003526481-03	OBS	No	537.615779	498.514962	739.6	10.436	13.9	6.6	2.57	5687	12.71	2.97
003526481-04	OBS	No	672.740070	221.443925	413.0	9.031	13.5	5.0	2.57	5687	5.94	2.21
003526481-05	OBS	No	435.580175	552.016674	588.3	5.323	12.6	7.7	2.57	5687	7.00	3.94
003526481-06	OBS	No	329.712428	435.836924	563.2	17.565	11.6	7.0	2.57	5687	6.26	5.71
003526481-07	OBS	No	229.171012	246.407054	308.8	3.000	11.8	-1.0	2.57	5687	4.46	9.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003526481-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
003526481-06	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
003526481-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—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.

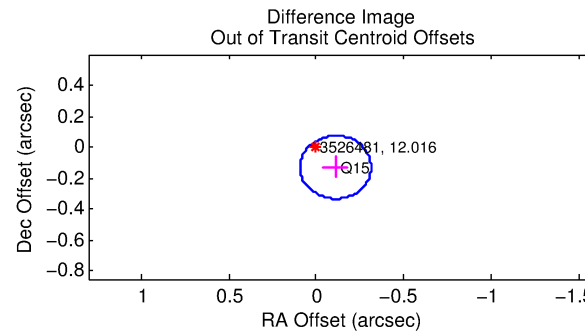
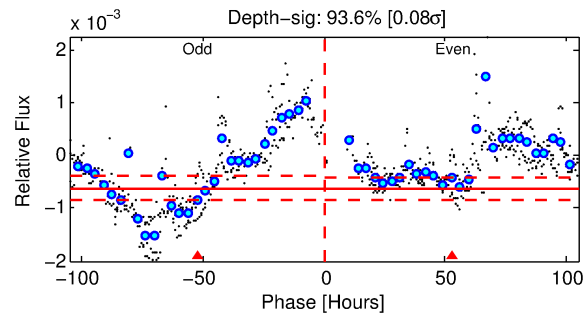
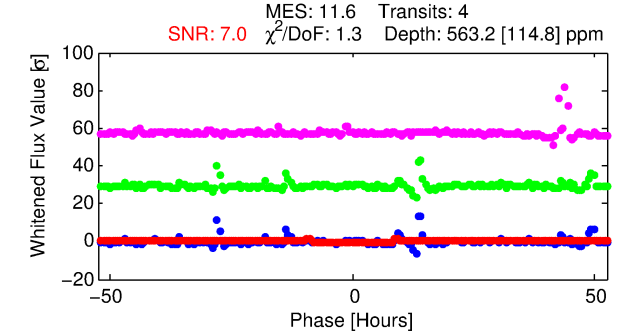
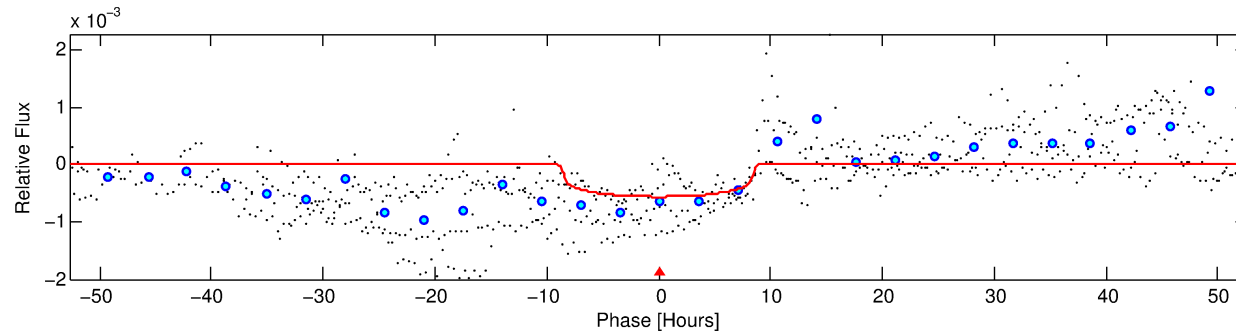
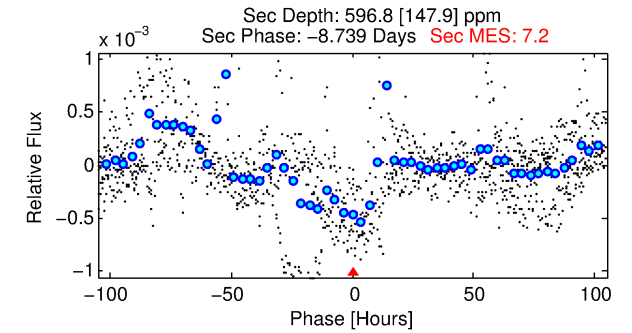
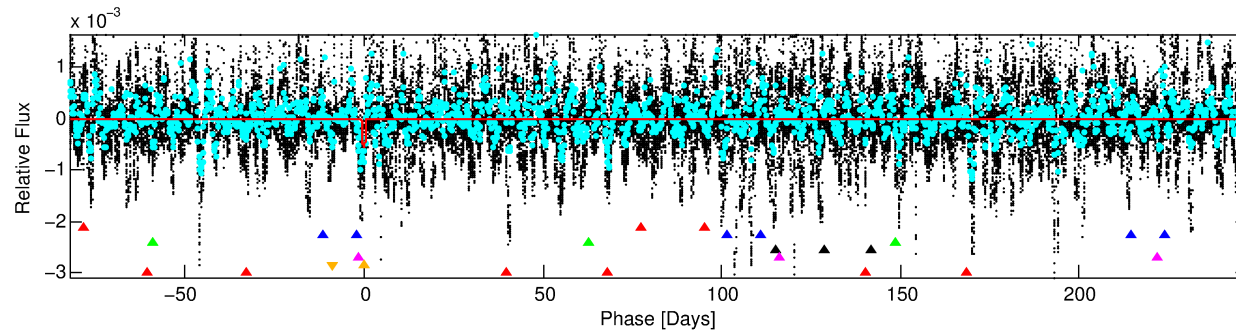
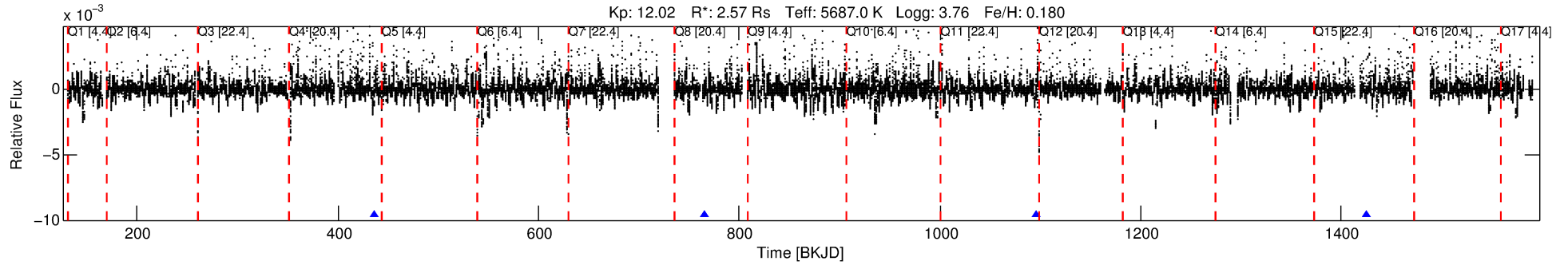
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003526481-06

No Significant Match Found

DV One-Page Summary

KIC: 3526481 Candidate: 6 of 7 Period: 329.712 d



DV Fit Results:

Period = 329.71243 [0.00542] d
Epoch = 435.8369 [0.0105] BKJD
Rp/R* = 0.0223 [0.0050]
a/R* = 124.99 [96.72]
b = 0.53 [1.04]
Seff = 5.71 [5.60]
Teq = 394 [97] K
Rp = 6.26 [3.83] Re
a = 1.0422 [0.6125] AU
Ag = 9106.01 [10016.86] [0.91 σ]
Teffp = 5953 [782] K [7.05 σ]

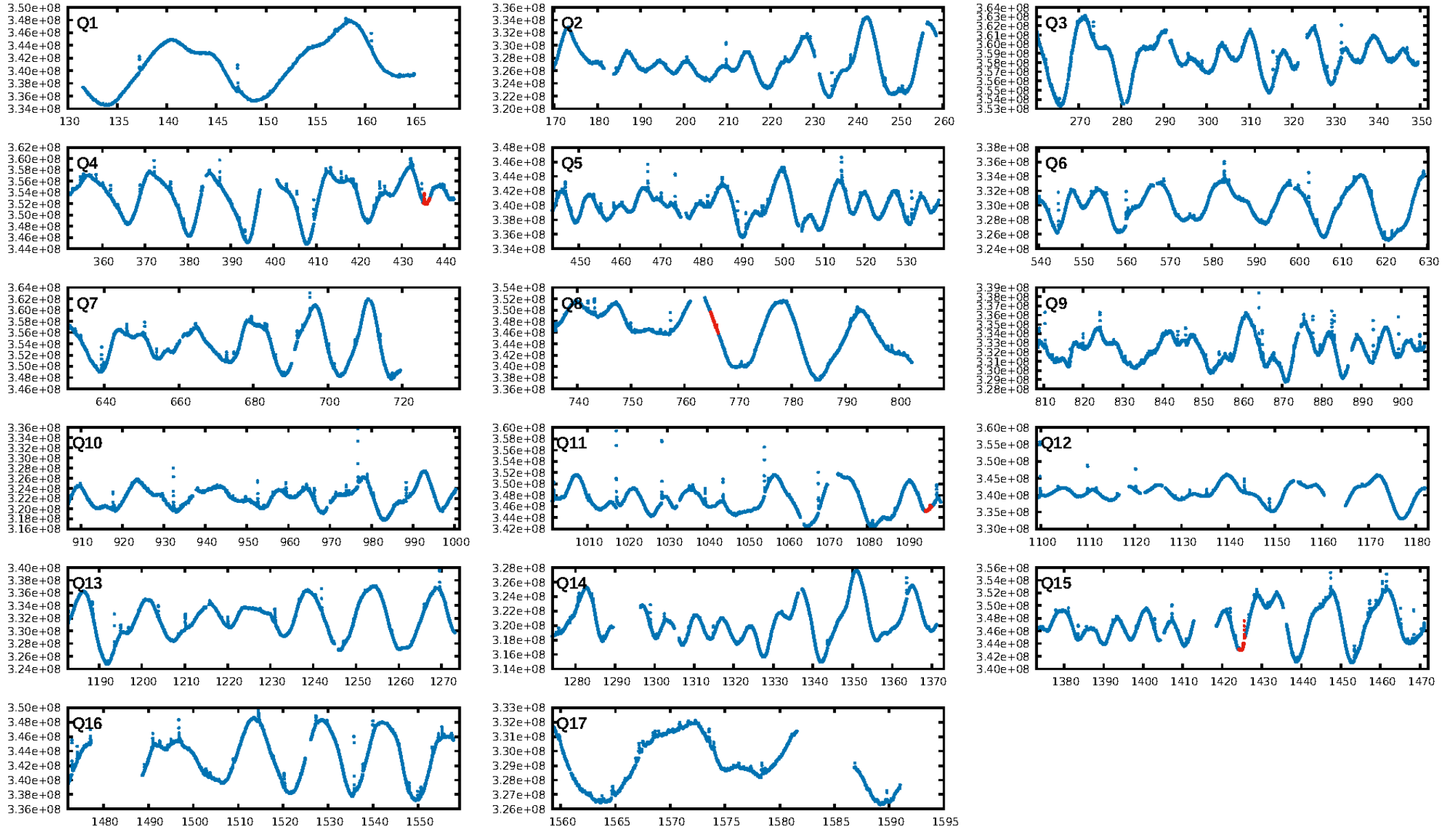
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [135.42 σ]
LongPeriod-sig: 100.0% [138.44 σ]
ModelChiSquare2-sig: 65.5%
ModelChiSquareGof-sig: 86.3%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -7.616
Centroid-sig: 40.1%
Centroid-so: 0.232 arcsec [0.58 σ]
OotOffset-rm: 0.168 arcsec [2.49 σ]
OotOffset-st: 0/1/0/0 [1]
KicOffset-rm: 0.160 arcsec [2.37 σ]
KicOffset-st: 0/1/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [1/1]

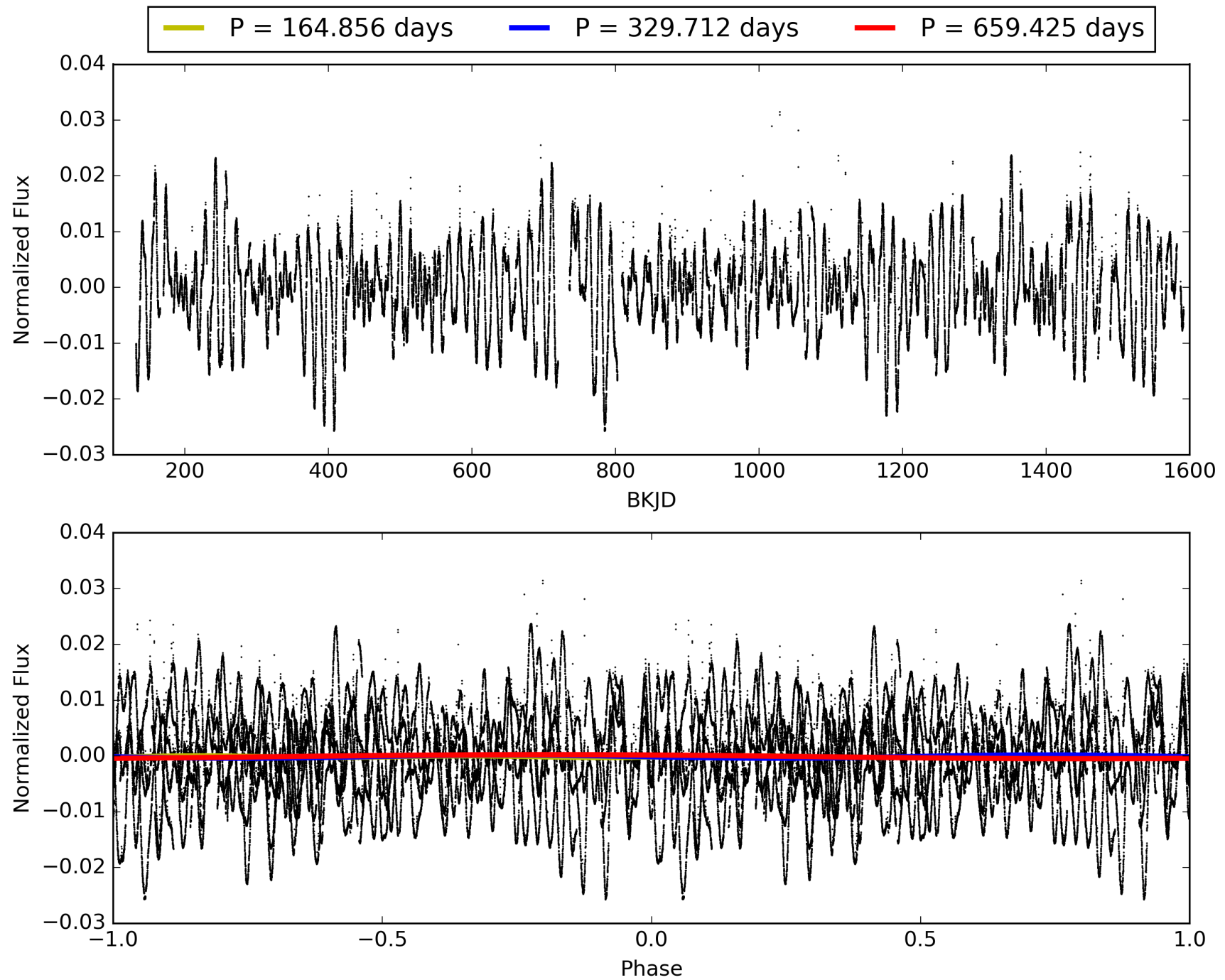
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:13:13 Z

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

TCE 003526481-06, PDC Light Curves

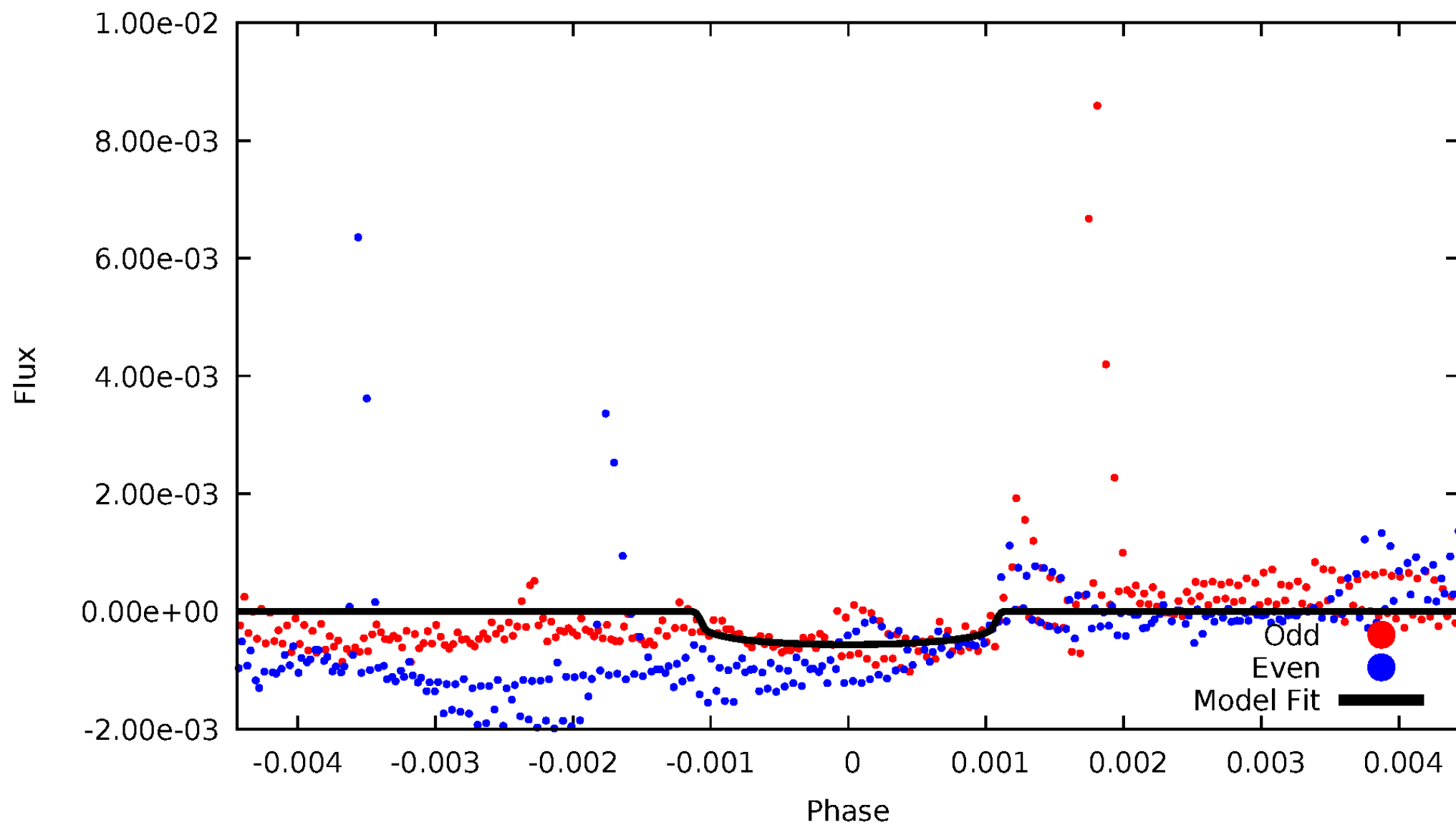


TCE 003526481-06



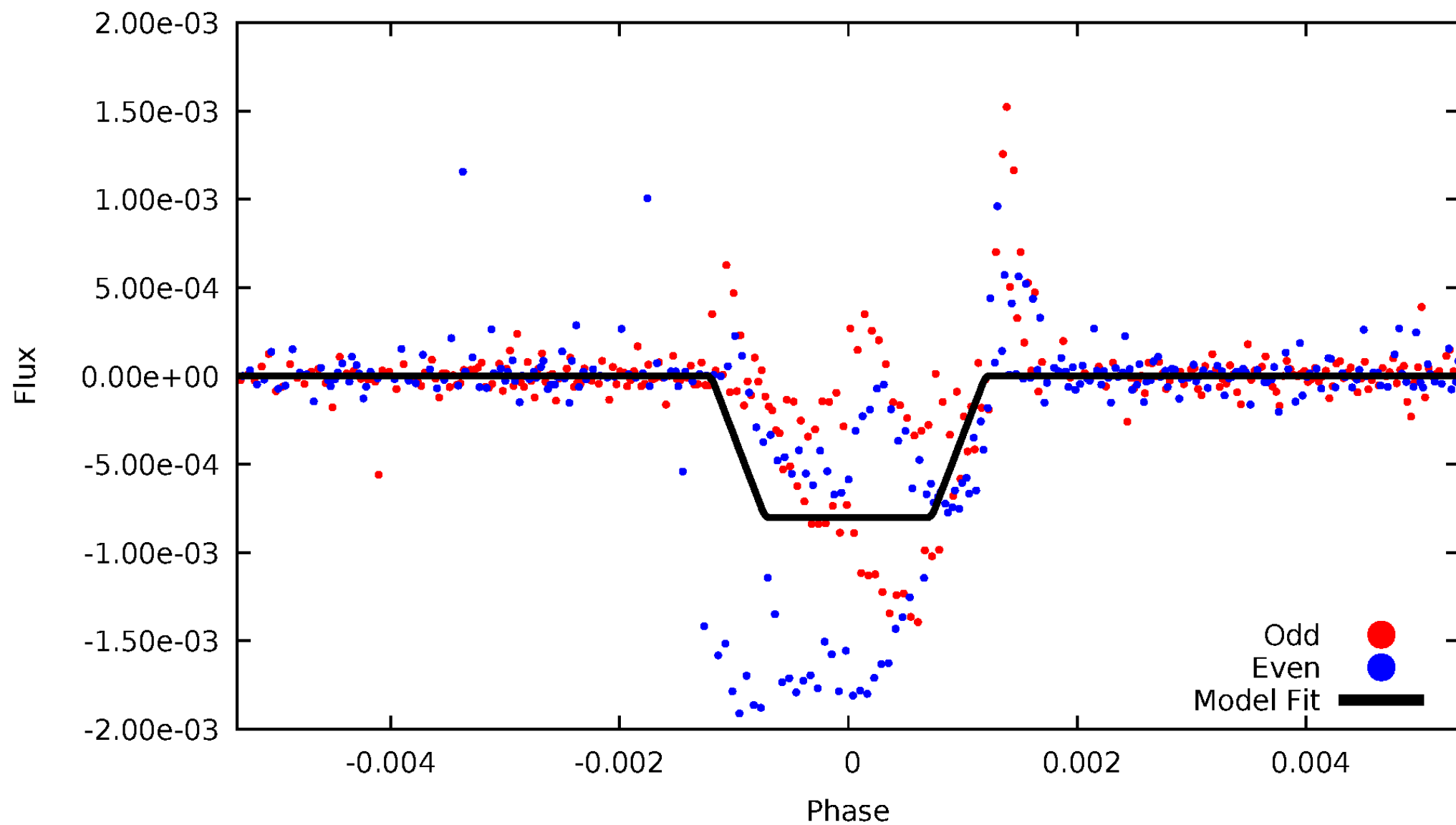
DV Odd/Even

TCE 003526481-06



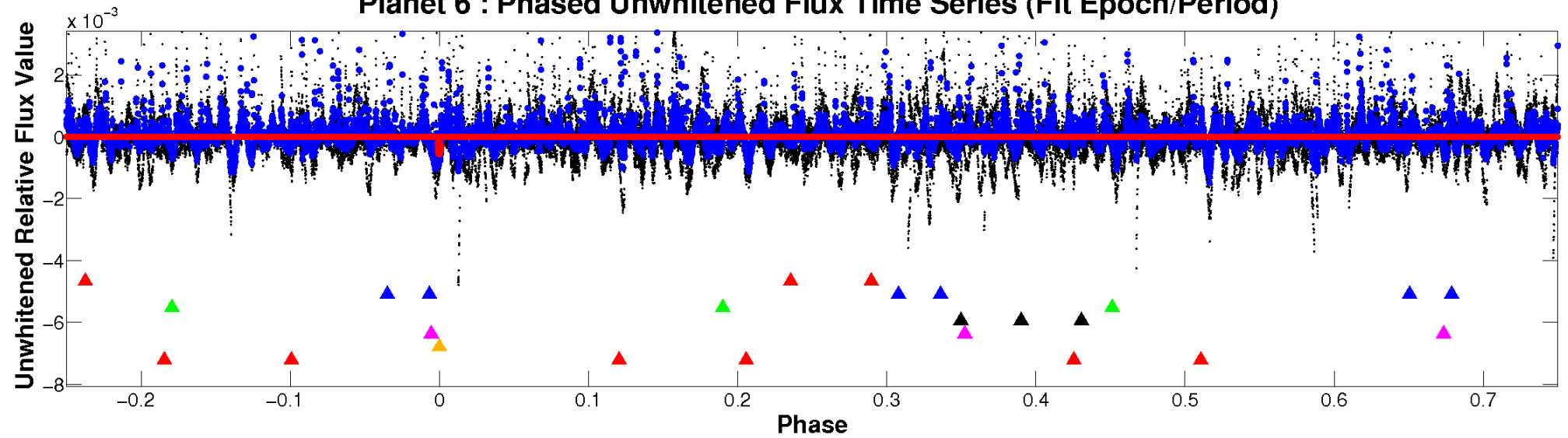
ALT Odd/Even

TCE 003526481-06

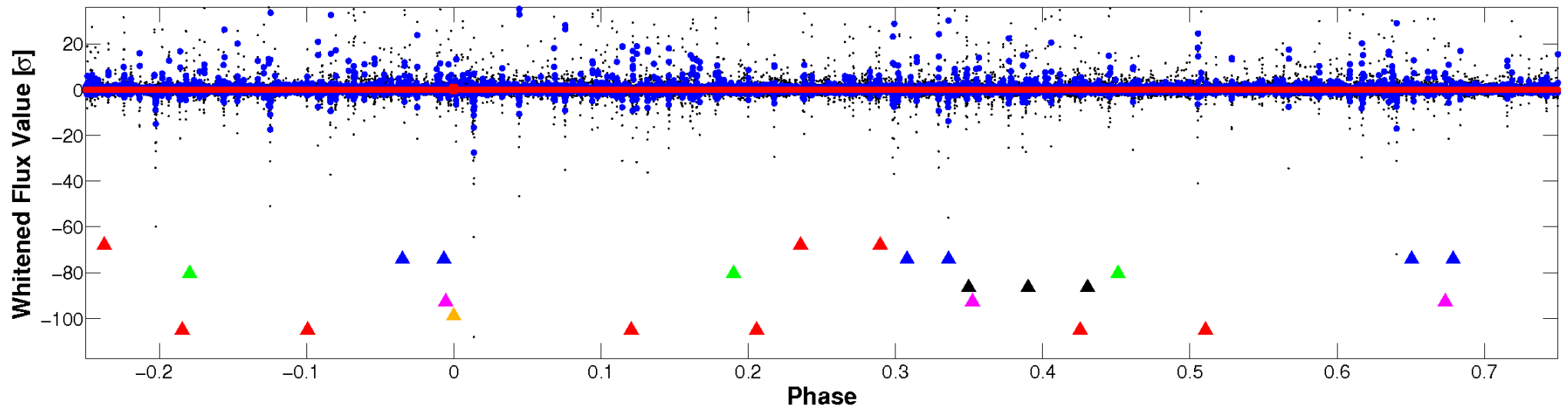


Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

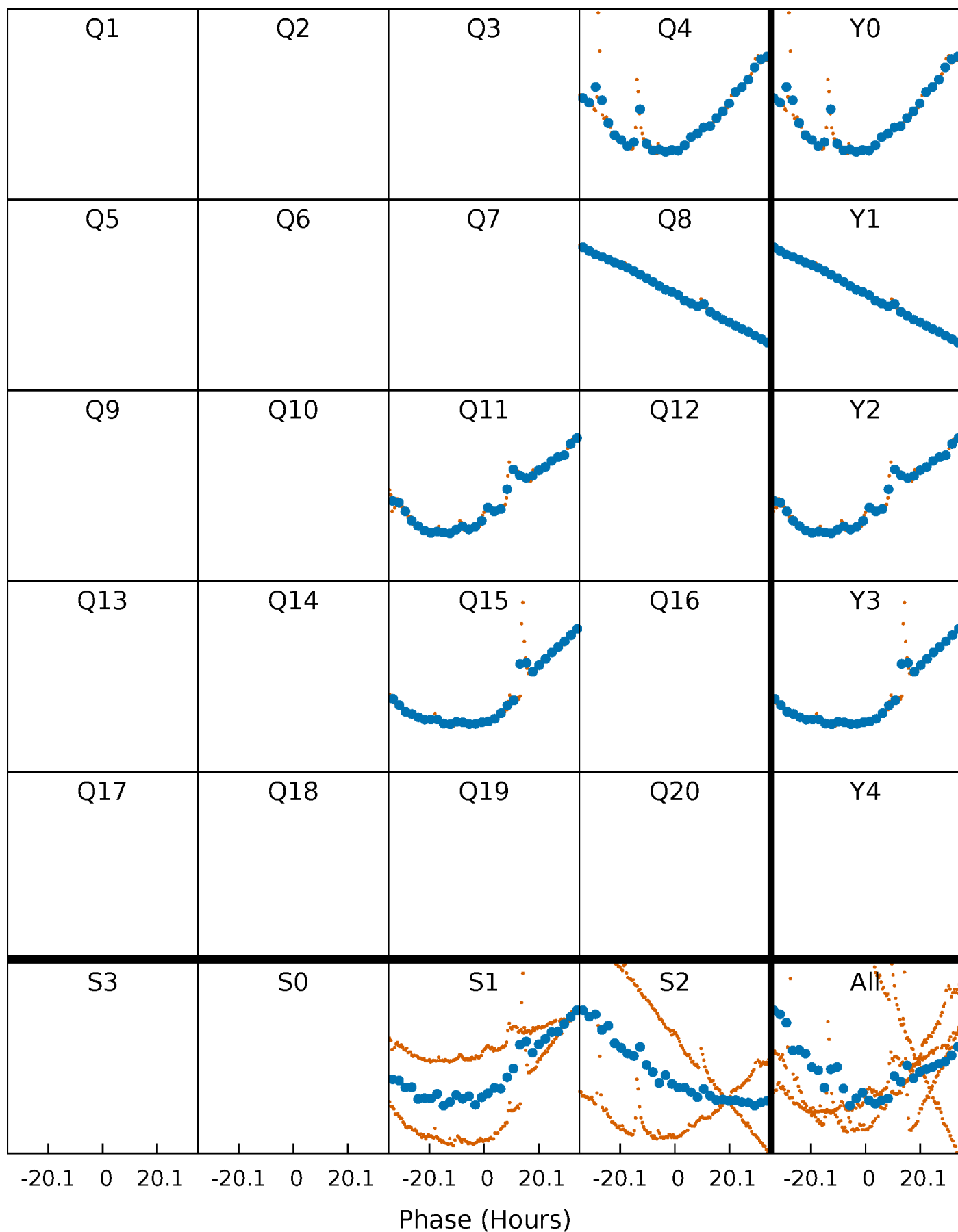


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



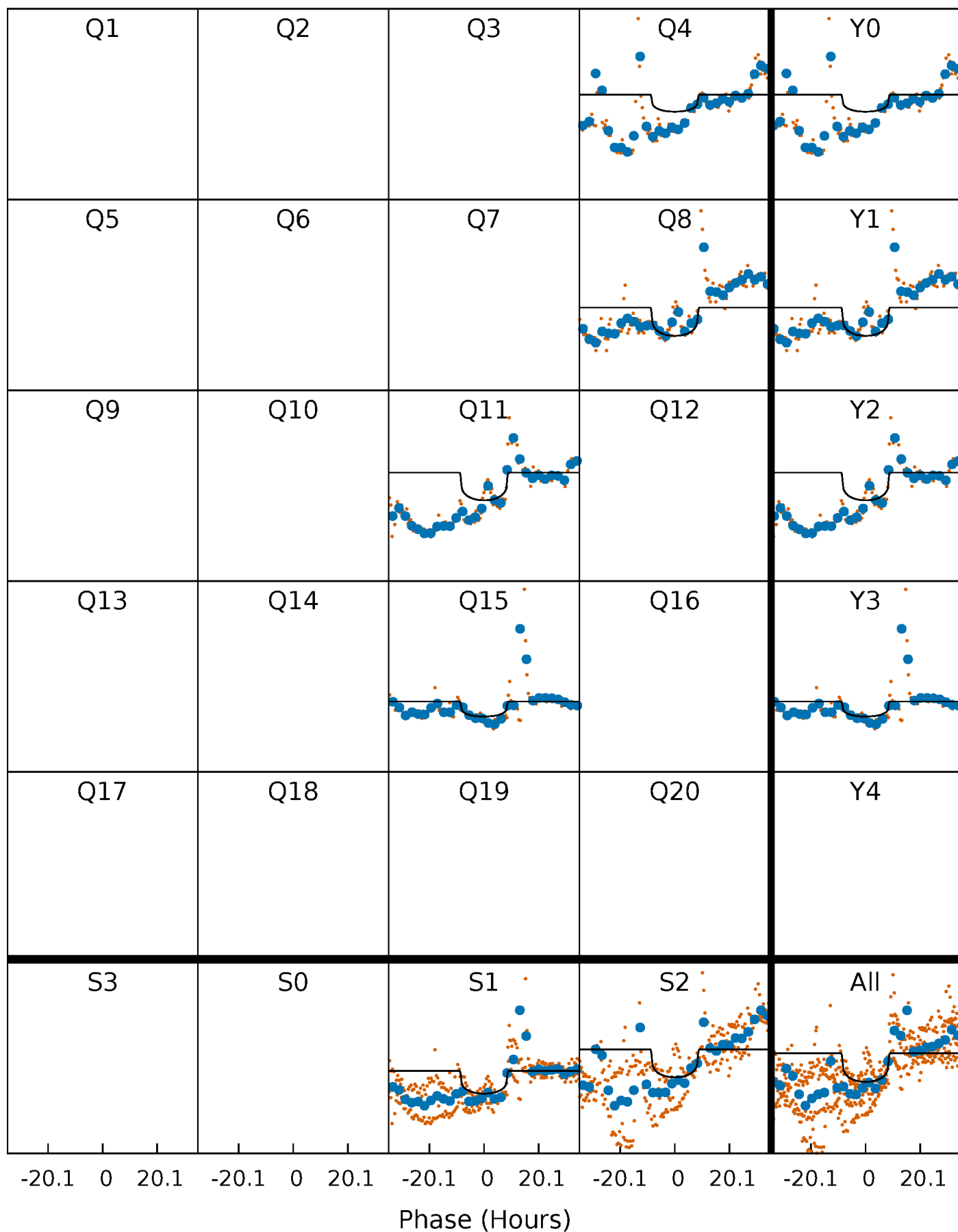
PDC Quarter-Phased Transit Curves

TCE 003526481-06 P=329.712427 Days $T_0=435.836924$ (BKJD)



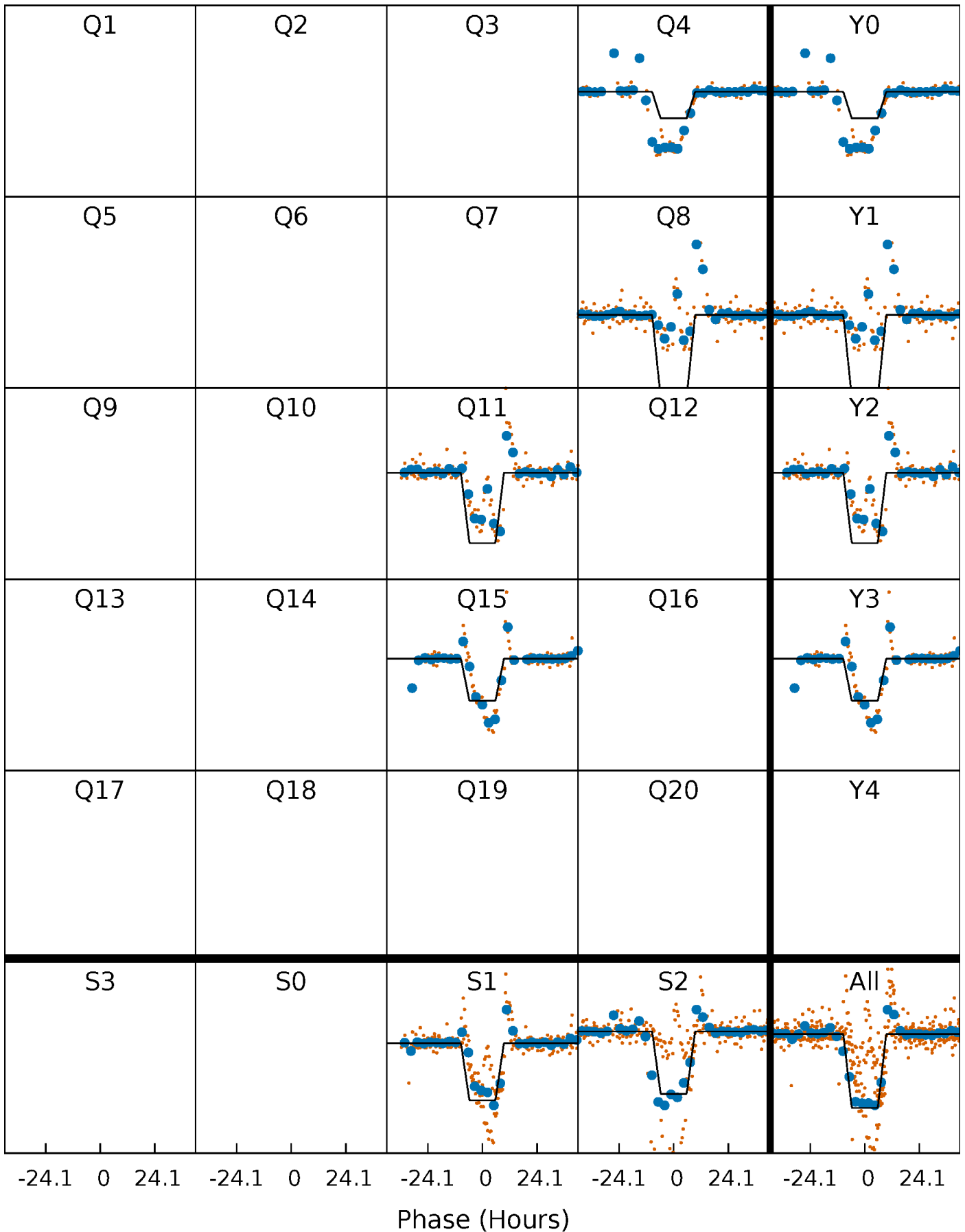
DV Quarter-Phased Transit Curves

TCE 003526481-06 $P=329.712427$ Days $T_0=435.836924$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

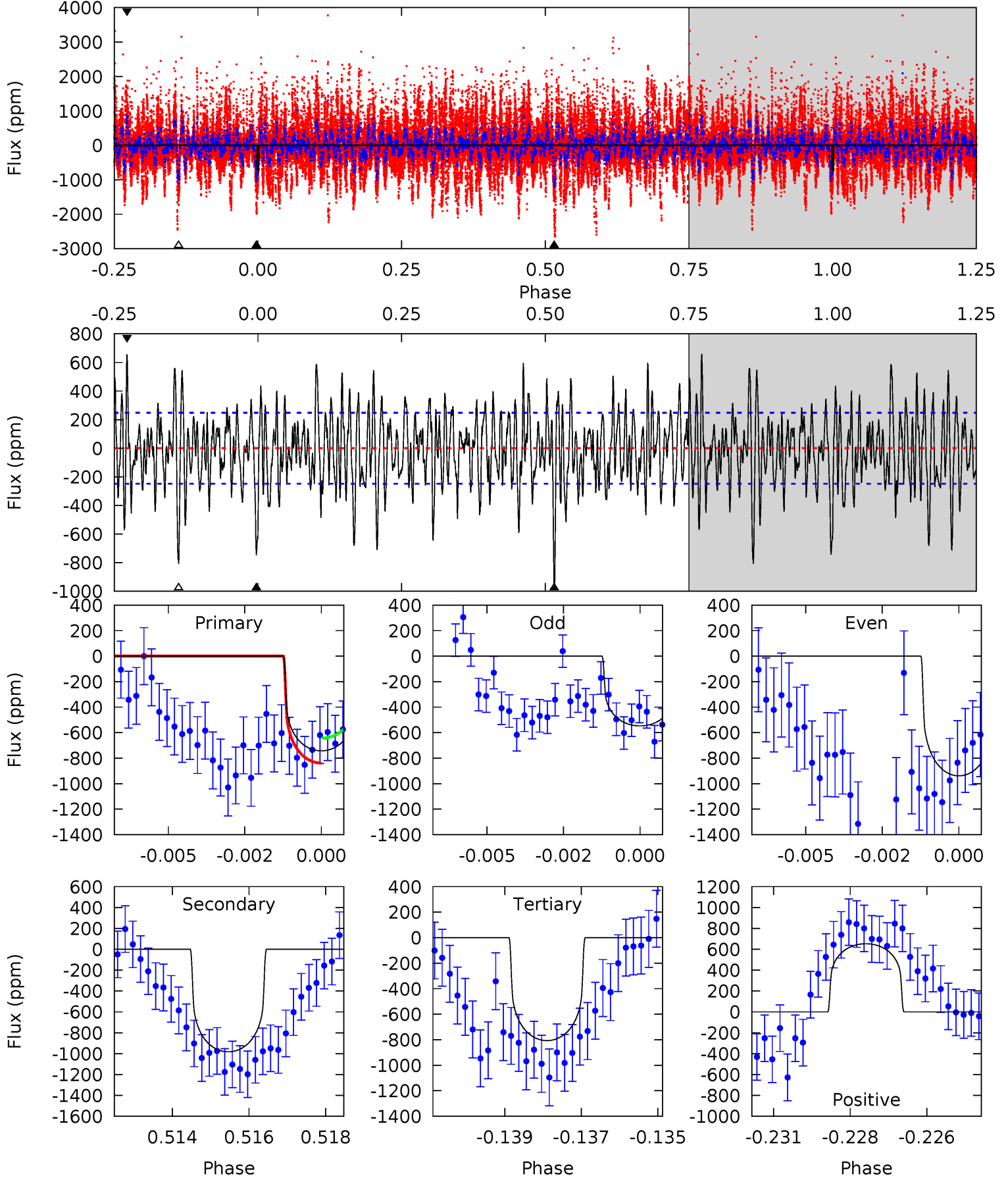
TCE 003526481-06 $P=329.702302$ Days $T_0=435.814129$ (BKJD)



DV Model-Shift Uniqueness Test

003526481-06, P = 329.712427 Days, E = 106.124497 Days

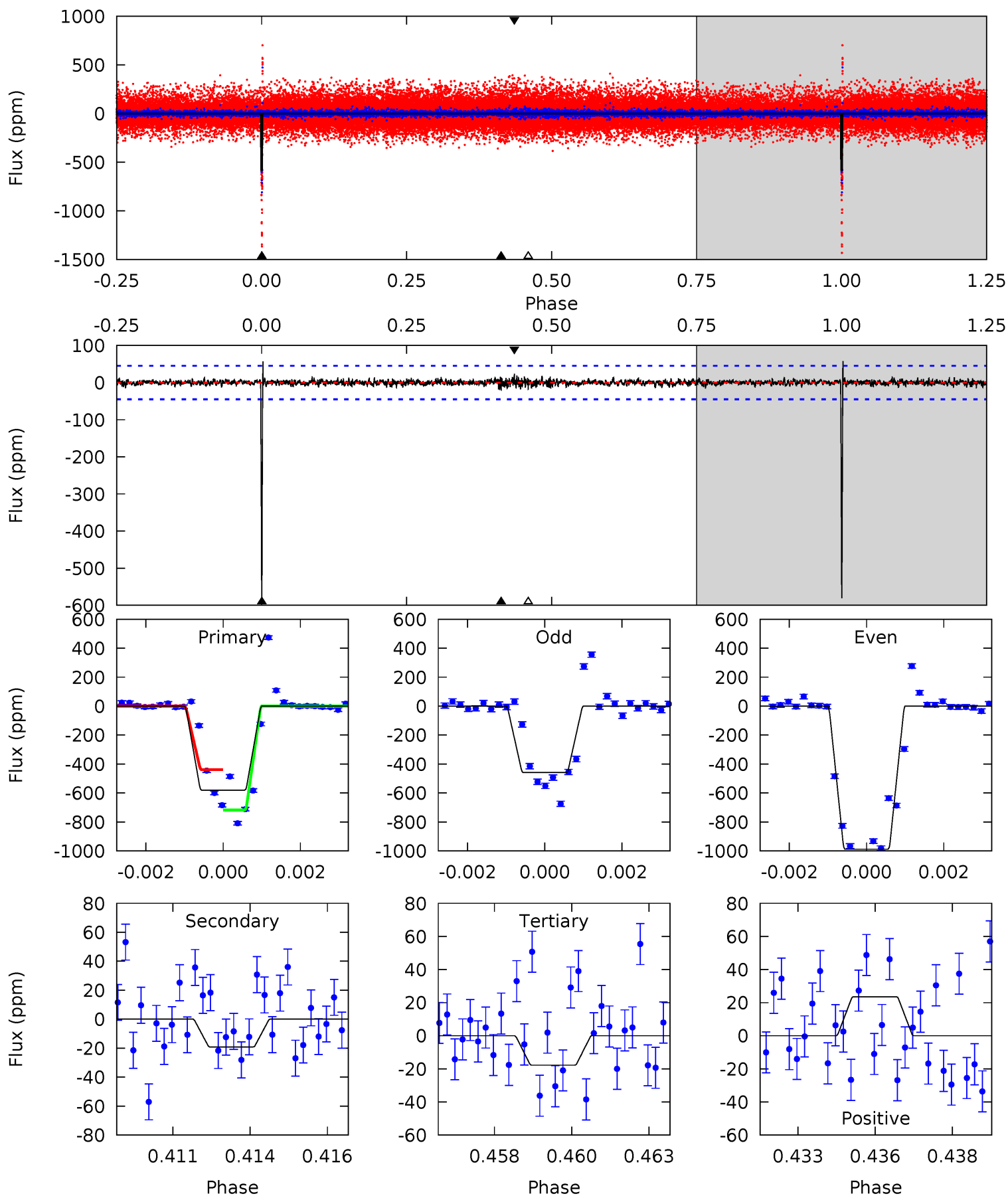
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.9	21.0	17.2	13.9	5.30	3.05	4.73	-1.37	1.92	3.75	7.04	3.80	1.03	0.40	2.11



Alt Model-Shift Uniqueness Test

003526481-06, P = 329.702302 Days, E = 106.111827 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
68.1	2.25	2.09	2.76	5.29	3.03	0.52	66.1	65.4	0.16	-0.51	35.3	1.18	0.09	16.6



Stellar Parameters For KIC 003526481

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5687^{+170}_{-153}	$3.760^{+0.584}_{-0.146}$	$0.180^{+0.200}_{-0.300}$	$2.572^{+0.628}_{-1.466}$	$1.387^{+0.134}_{-0.402}$	$0.115^{+0.870}_{-0.045}$
	+3%/-3%	+16%/-4%	+111%/-167%	+24%/-57%	+10%/-29%	+758%/-40%
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 003526481-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-982 \pm 47	$5.66^{+1.97}_{-1.84}$	539^{+43}_{-81}	6768^{+1063}_{-687}	18006^{+19709}_{-7946}
Alt.	-19 \pm 9	$7.24^{+2.36}_{-2.17}$	542^{+46}_{-70}	2927^{+242}_{-266}	201^{+246}_{-111}

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 $A_{obs} \gg 1.0$

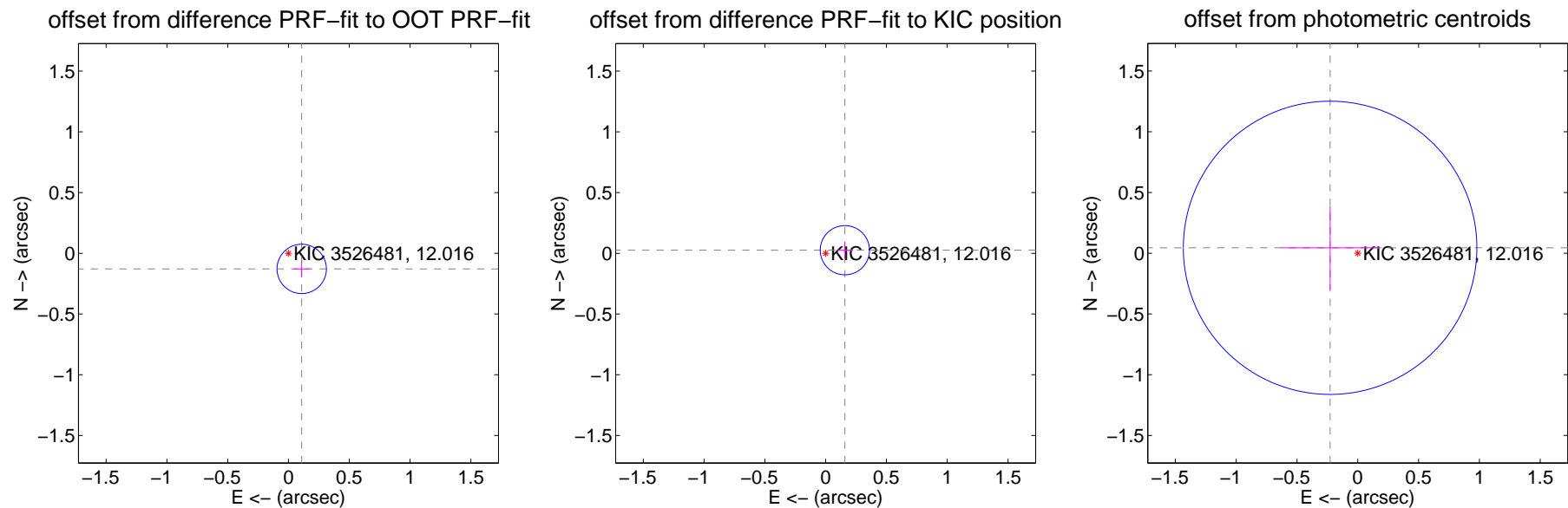
DV Centroid Data

Supplemental centroid analysis for 003526481-06. Kepler magnitude: 12.02. Transit SNR 7.00

There are 1 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.168 ± 0.068	2.49	-0.109 ± 0.068	-0.129 ± 0.068
PRF-fit source offset from KIC position	0.160 ± 0.068	2.37	-0.158 ± 0.068	0.025 ± 0.068
photometric centroid source offset	0.23 ± 0.40	0.58	0.23 ± 0.40	0.04 ± 0.34



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.

Q13 no difference image



Q13 no OOT image



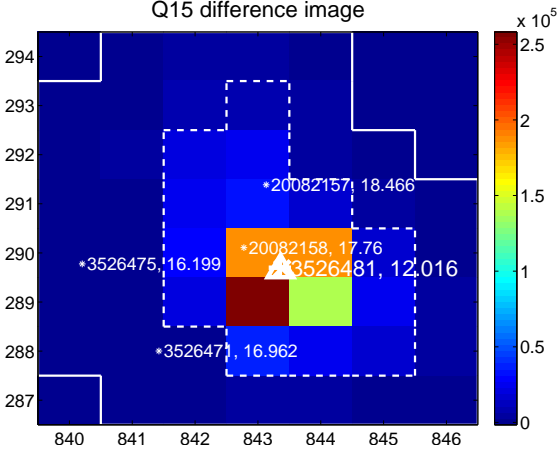
Q14 no difference image



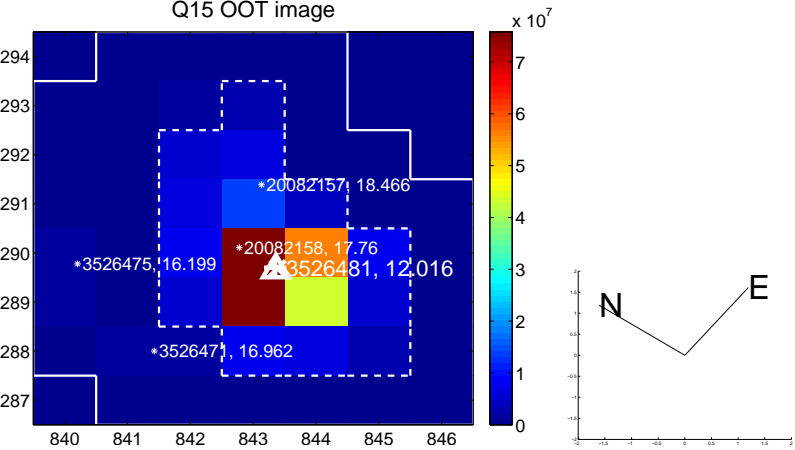
Q14 no OOT image



Q15 difference image



Q15 OOT image



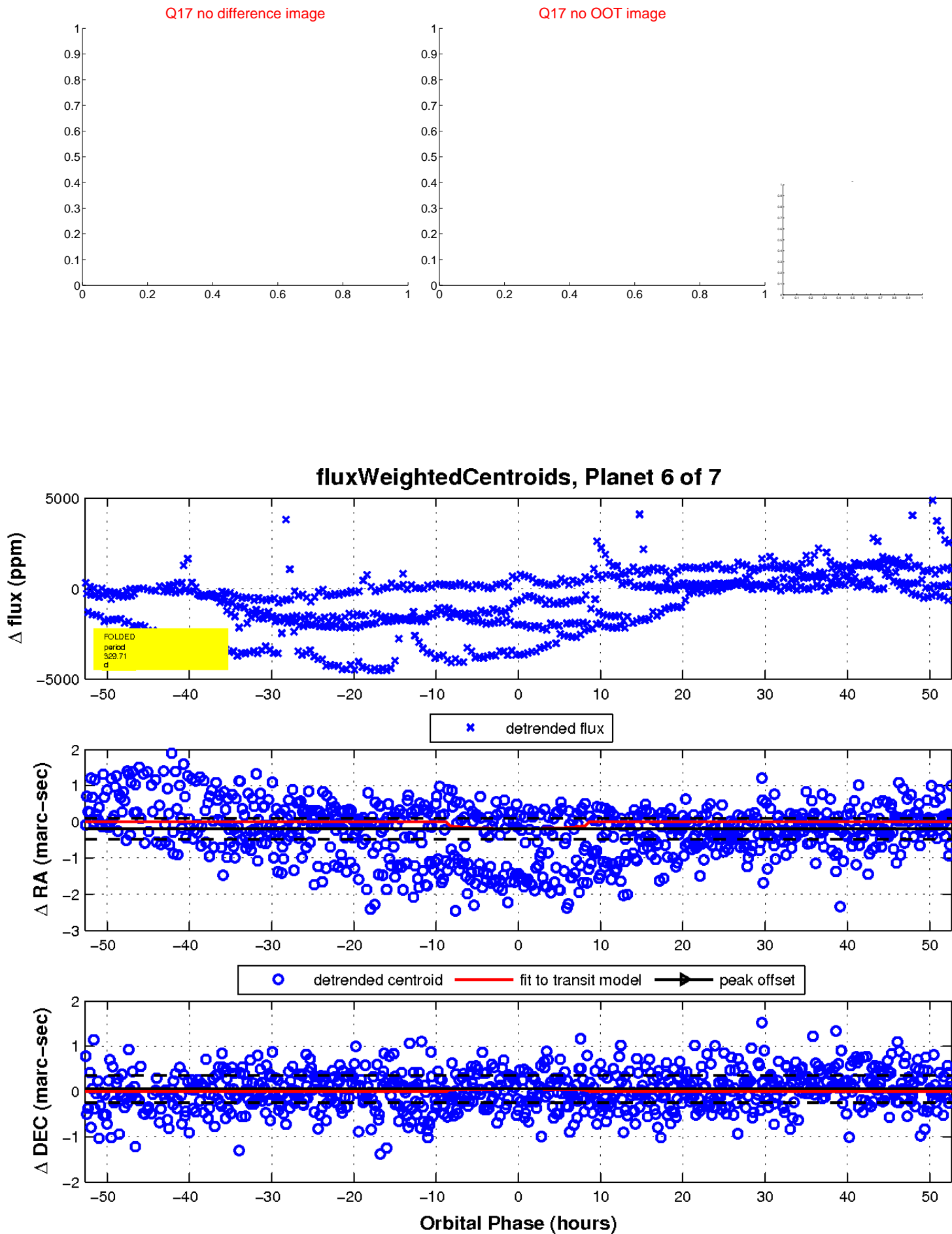
Q16 no difference image



Q16 no OOT image

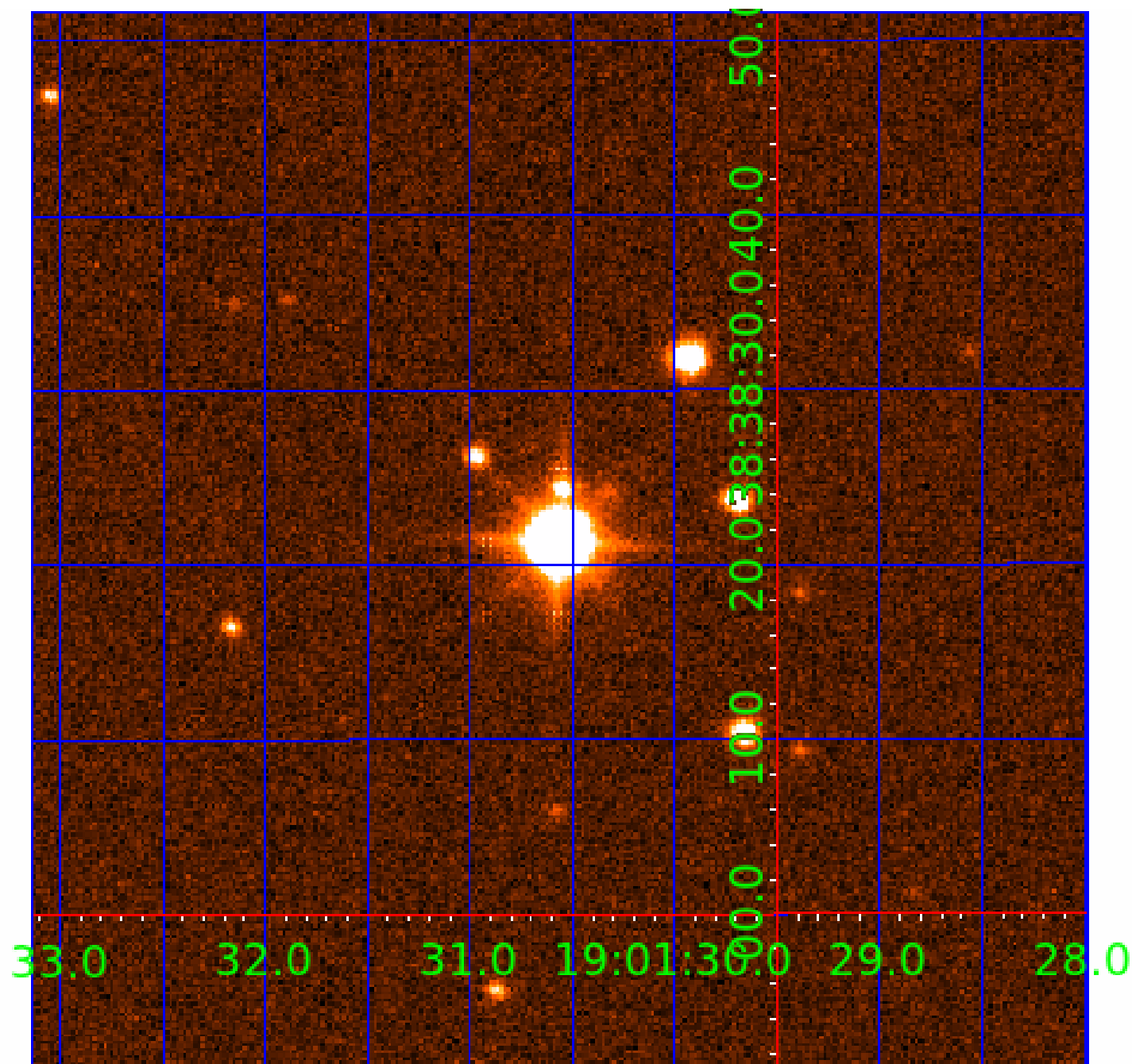


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003526481

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})
003526481-01	OBS	No	485.655832	531.340454	836.7	6.461	18.8	9.5	2.57	5687	7.55	3.40
003526481-02	OBS	No	216.709560	329.941623	569.4	5.482	15.8	8.3	2.57	5687	6.37	9.99
003526481-03	OBS	No	537.615779	498.514962	739.6	10.436	13.9	6.6	2.57	5687	12.71	2.97
003526481-04	OBS	No	672.740070	221.443925	413.0	9.031	13.5	5.0	2.57	5687	5.94	2.21
003526481-05	OBS	No	435.580175	552.016674	588.3	5.323	12.6	7.7	2.57	5687	7.00	3.94
003526481-06	OBS	No	329.712428	435.836924	563.2	17.565	11.6	7.0	2.57	5687	6.26	5.71
003526481-07	OBS	No	229.171012	246.407054	308.8	3.000	11.8	-1.0	2.57	5687	4.46	9.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003526481-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—ALL_TRANS_CHASES—INCONSISTENT_TRANS
003526481-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
003526481-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
003526481-06	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
003526481-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—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.

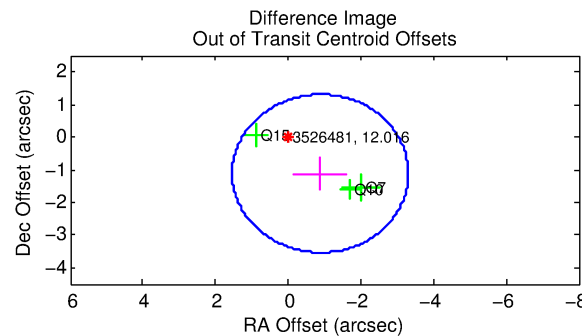
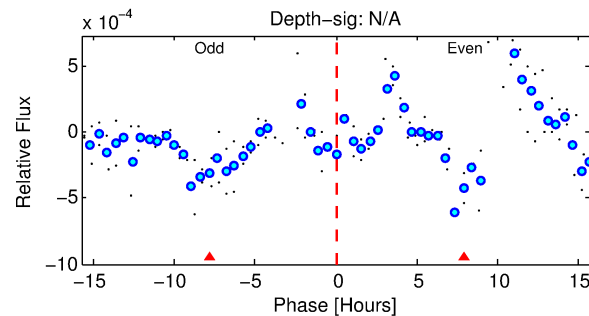
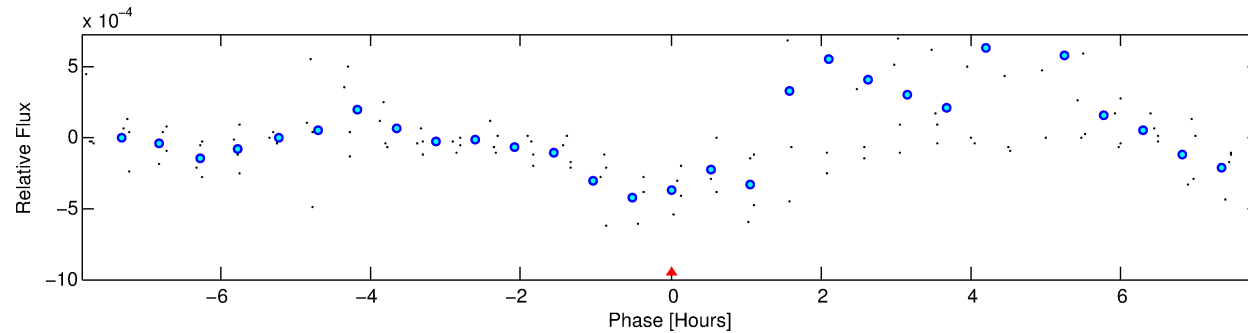
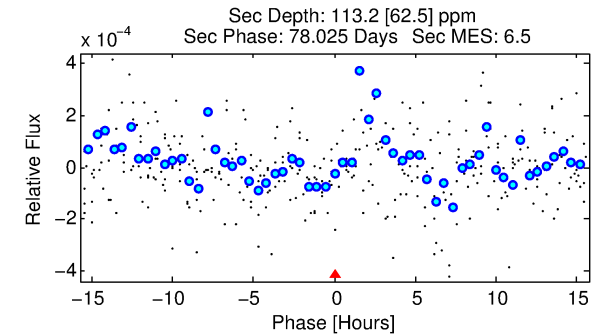
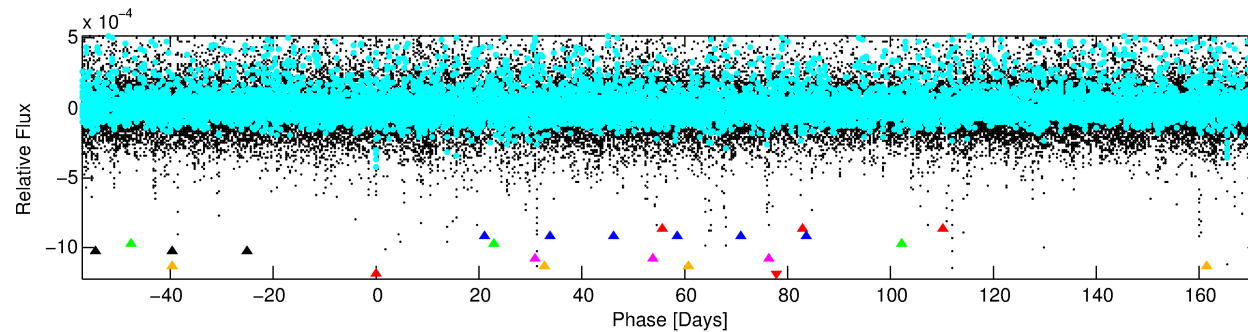
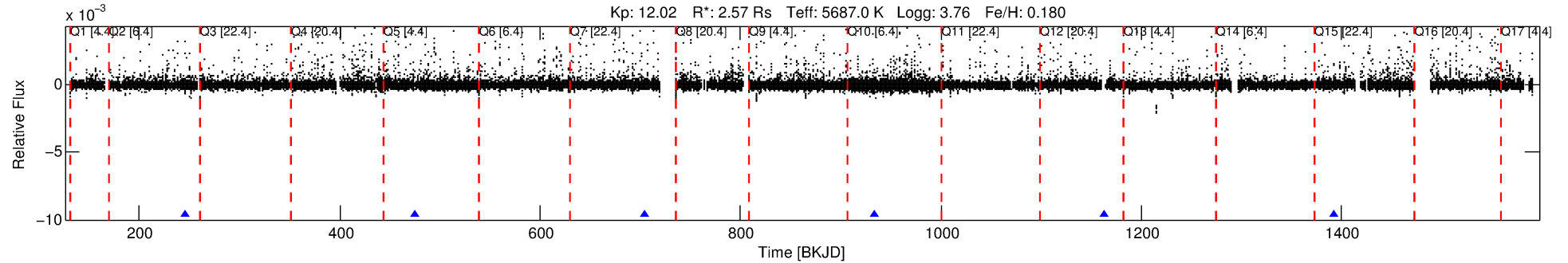
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003526481-07

No Significant Match Found

DV One-Page Summary

KIC: 3526481 Candidate: 7 of 7 Period: 229.171 d



TPS TCE Results:

Period = 229.17101 d
Epoch = 246.4071 BKJD

DV fit results are unavailable

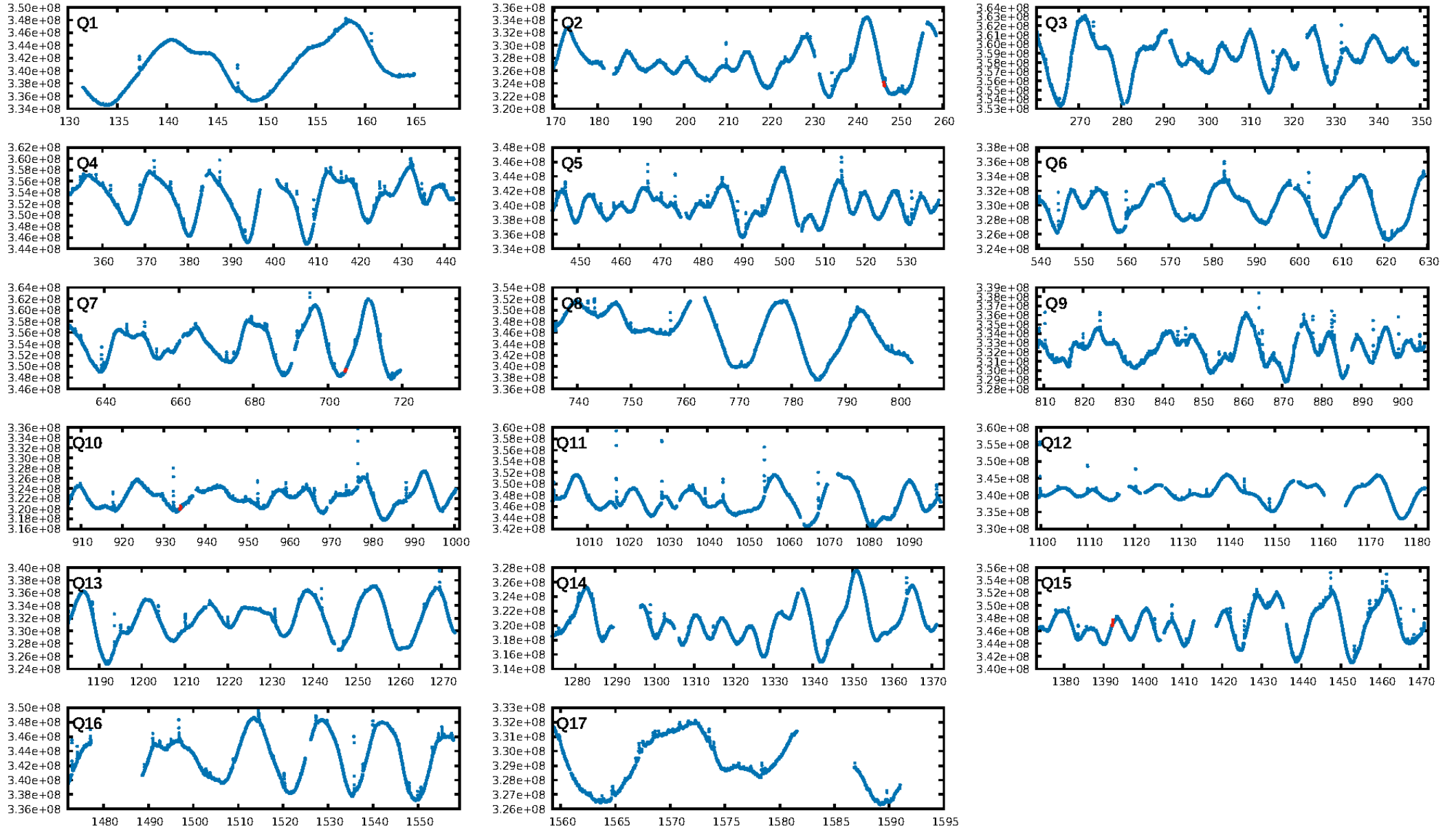
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [47.86 σ]
LongPeriod-sig: 100.0% [135.42 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 3.432
Centroid-sig: 33.8%
Centroid-so: 0.726 arcsec [0.92 σ]
OotOffset-rm: 1.421 arcsec [1.76 σ]
KicOffset-rm: 1.372 arcsec [1.30 σ]
OotOffset-st: 1/2/0/0 [3]
KicOffset-st: 1/2/0/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

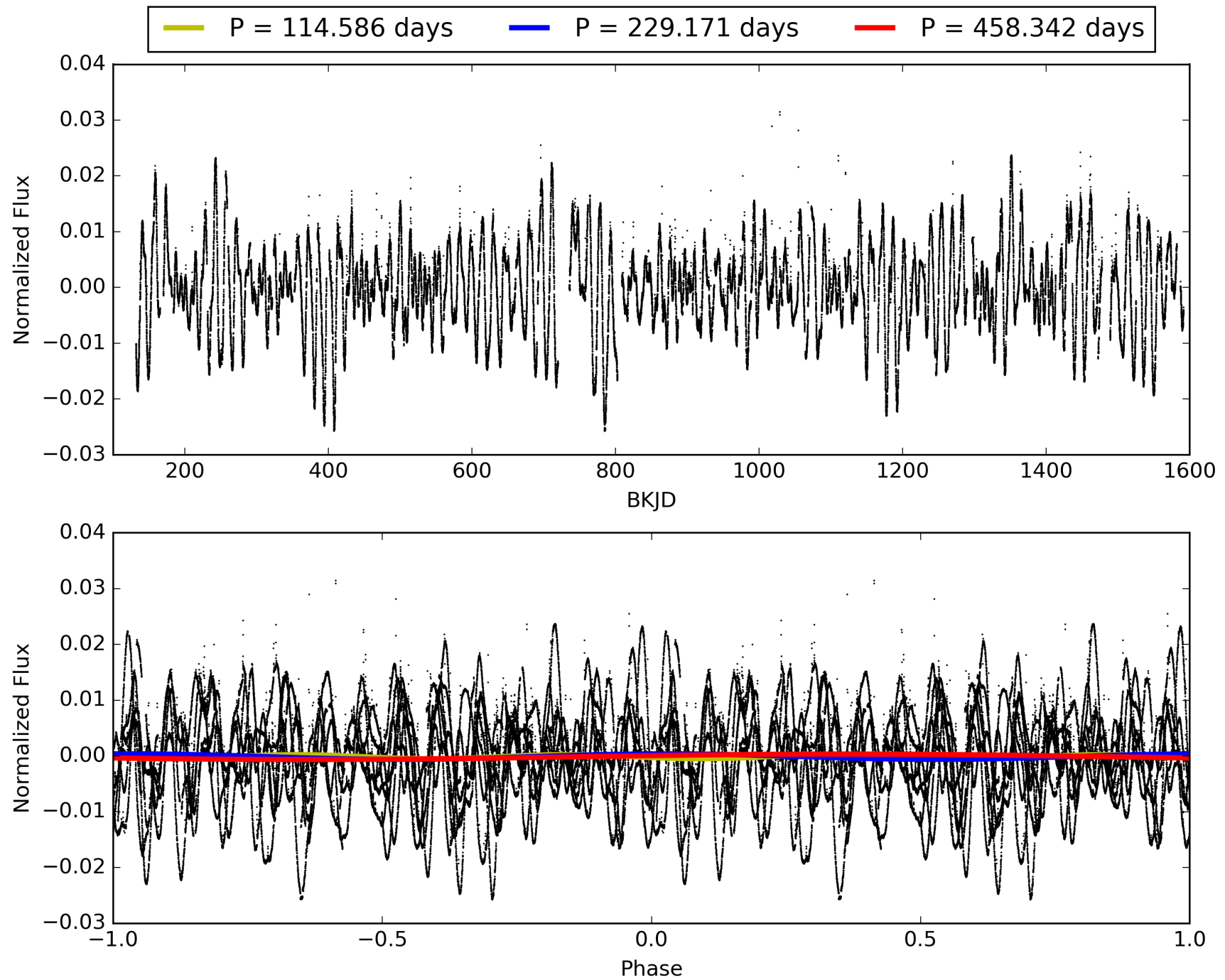
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:13:27 Z

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

TCE 003526481-07, PDC Light Curves

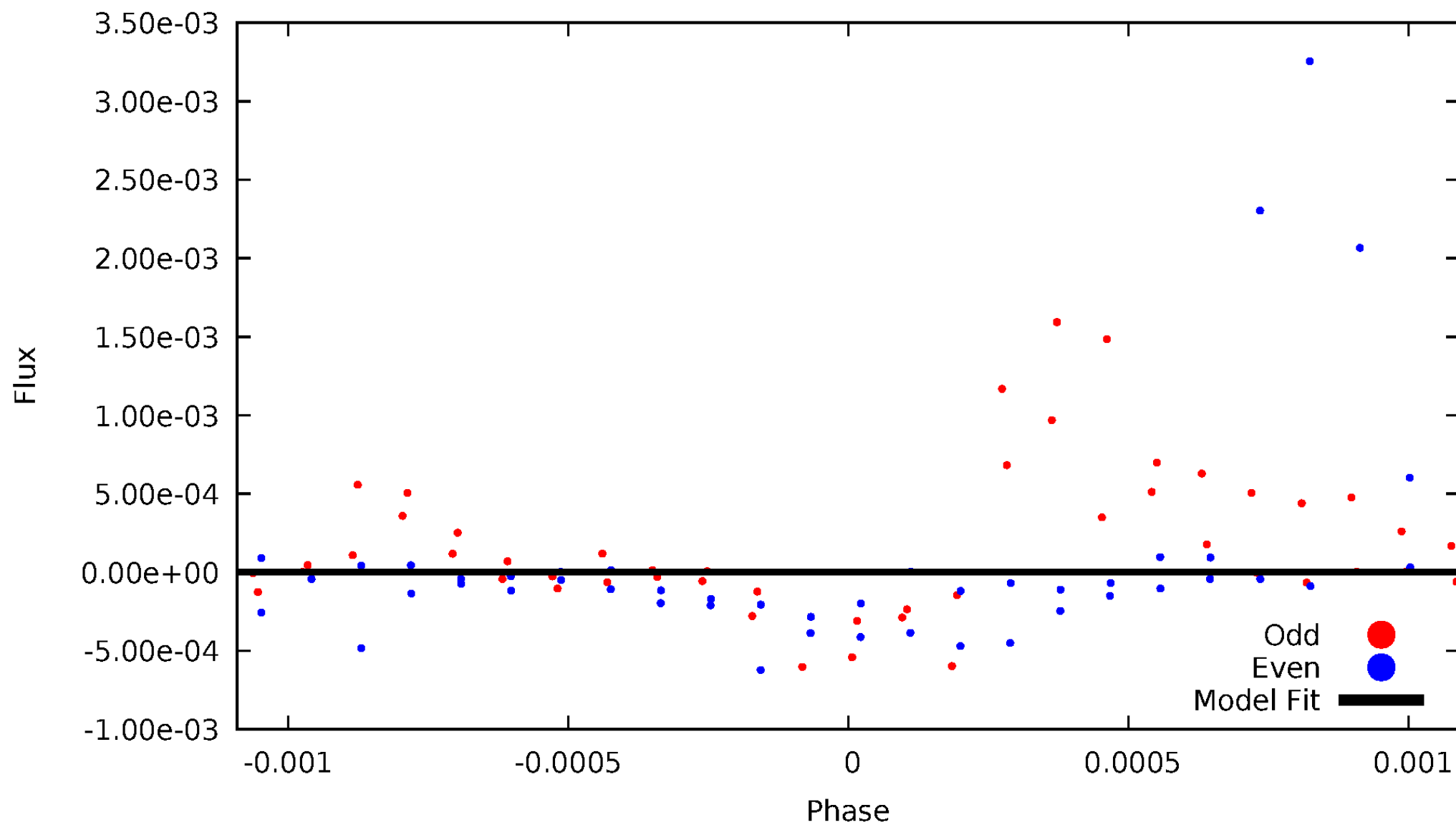


TCE 003526481-07



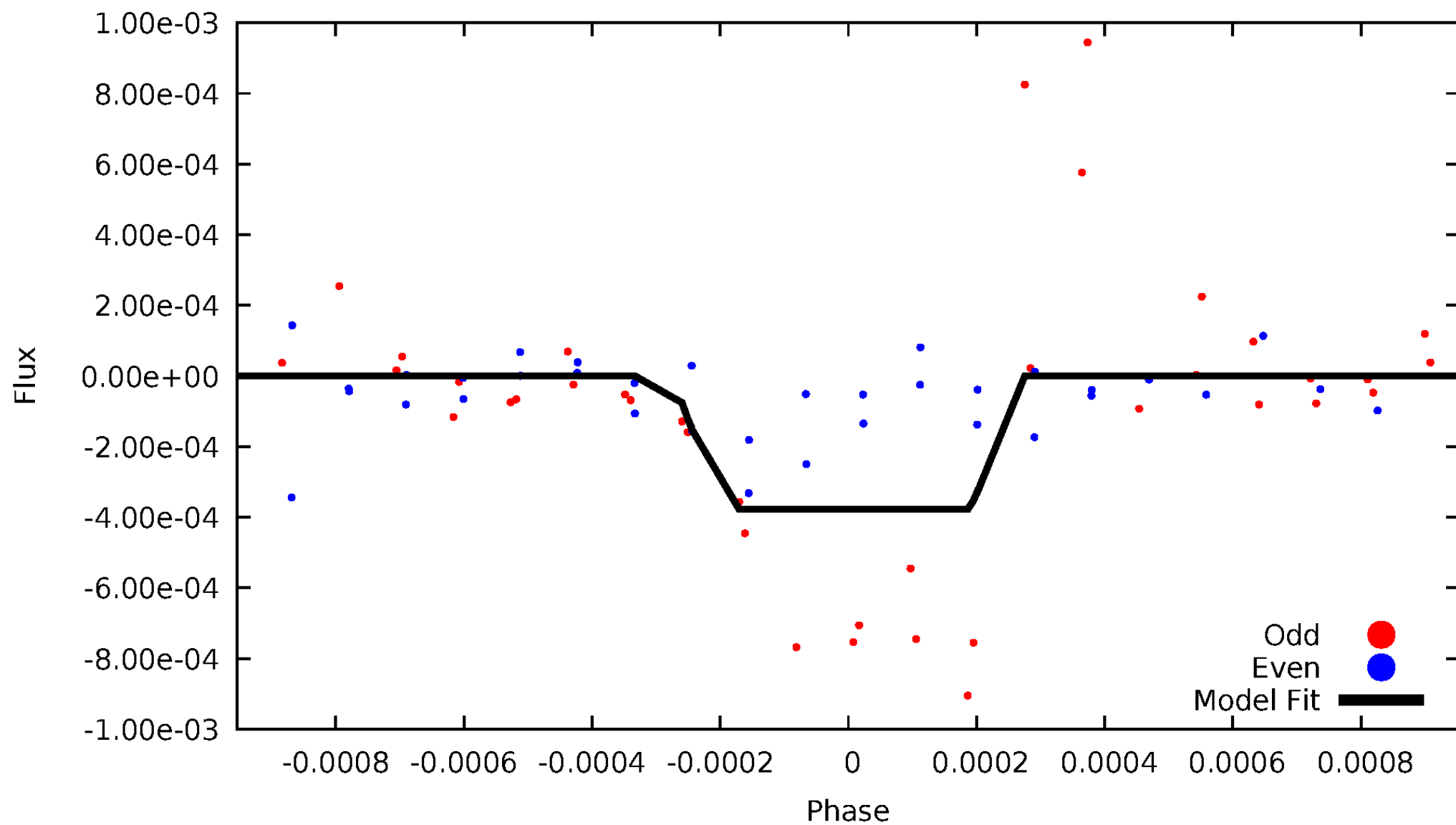
DV Odd/Even

TCE 003526481-07

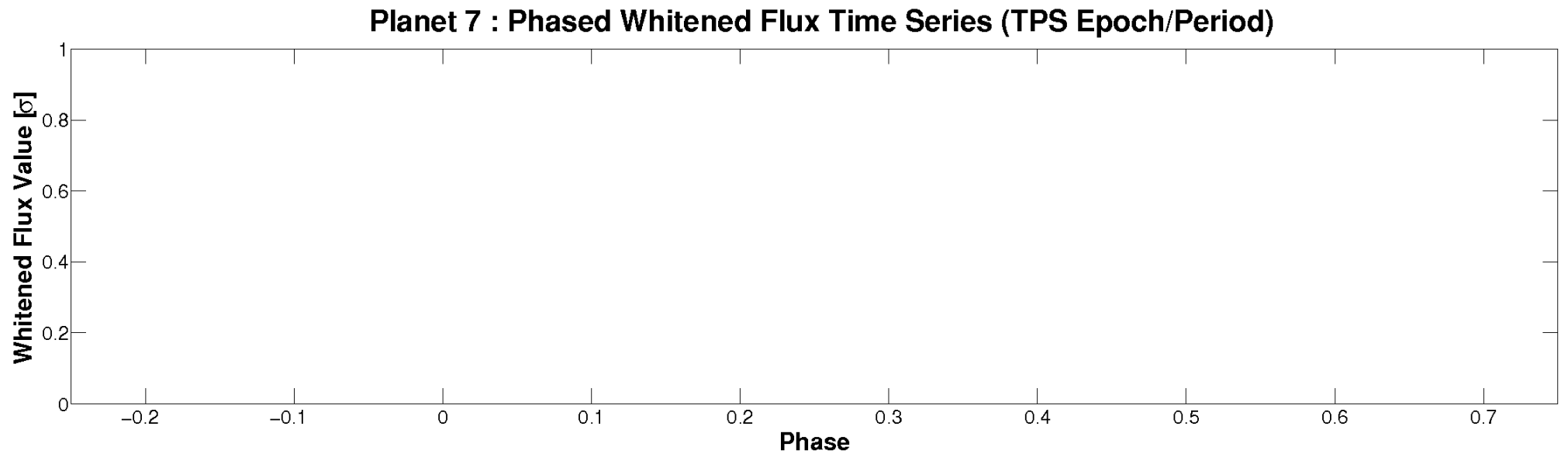
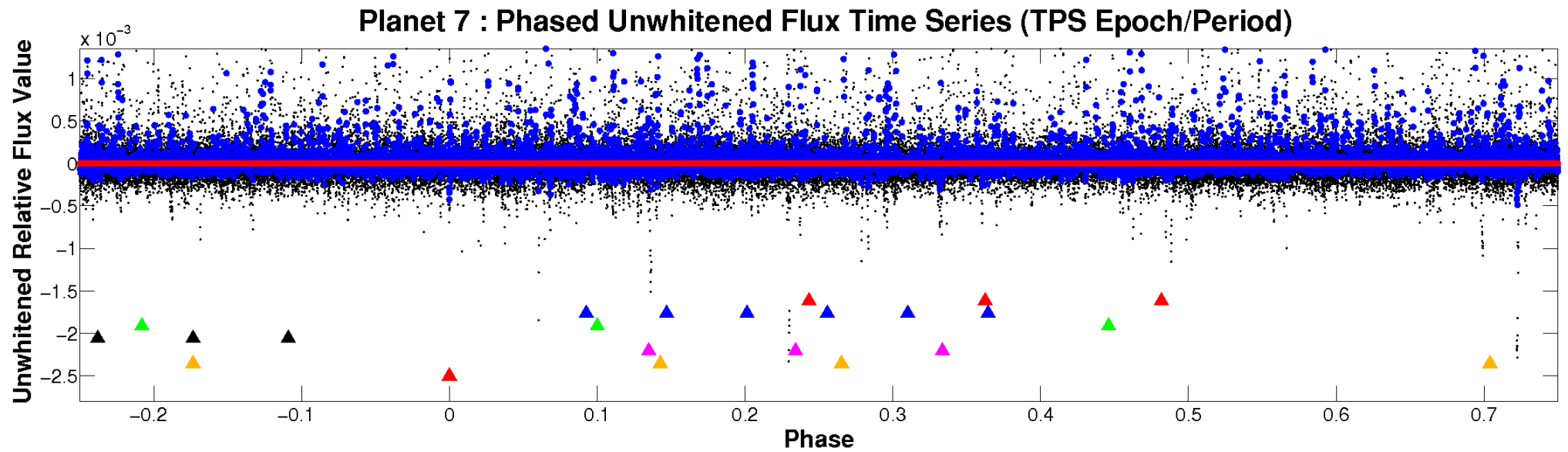


ALT Odd/Even

TCE 003526481-07

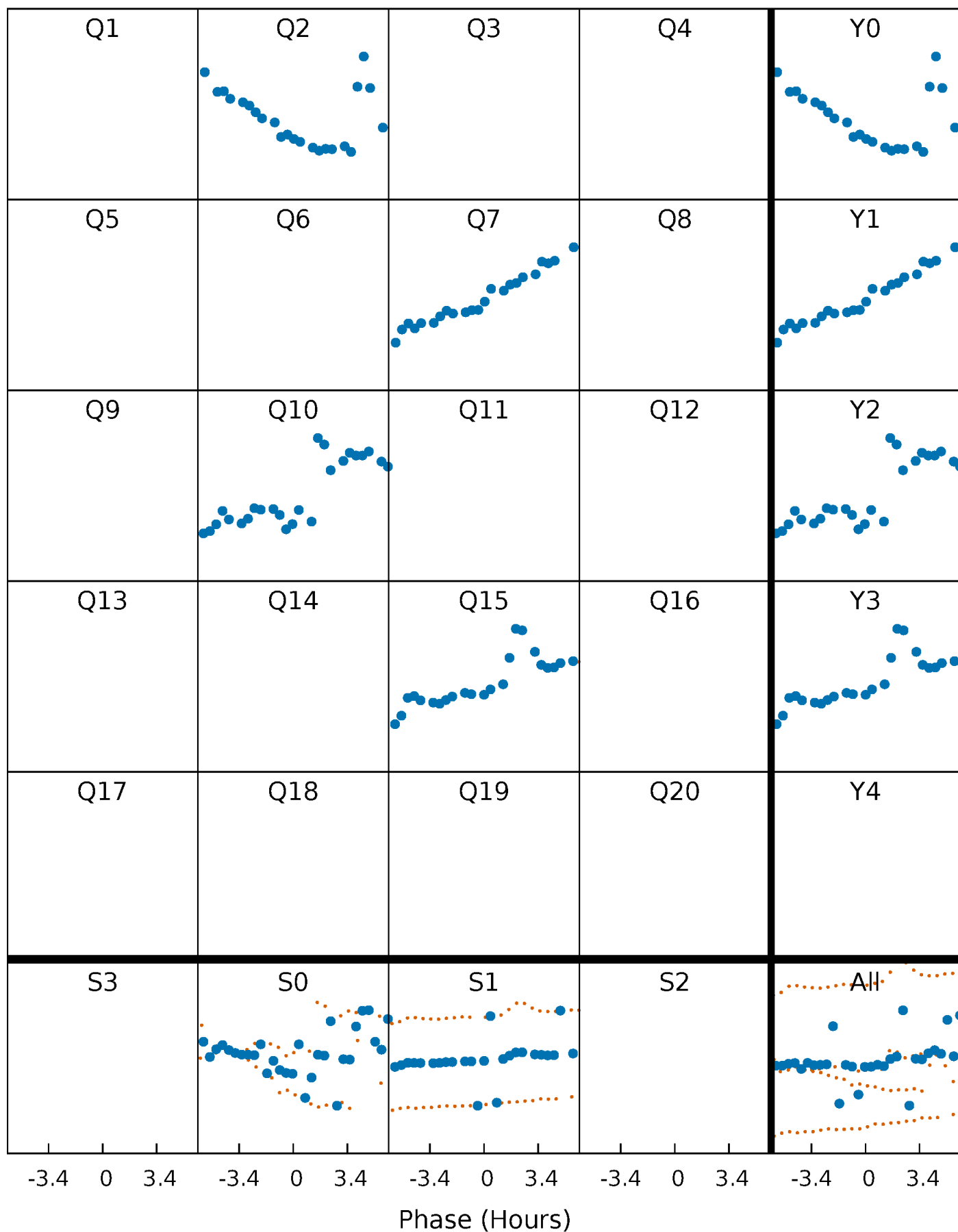


Non-Whitened Vs. Whitened Light Curve



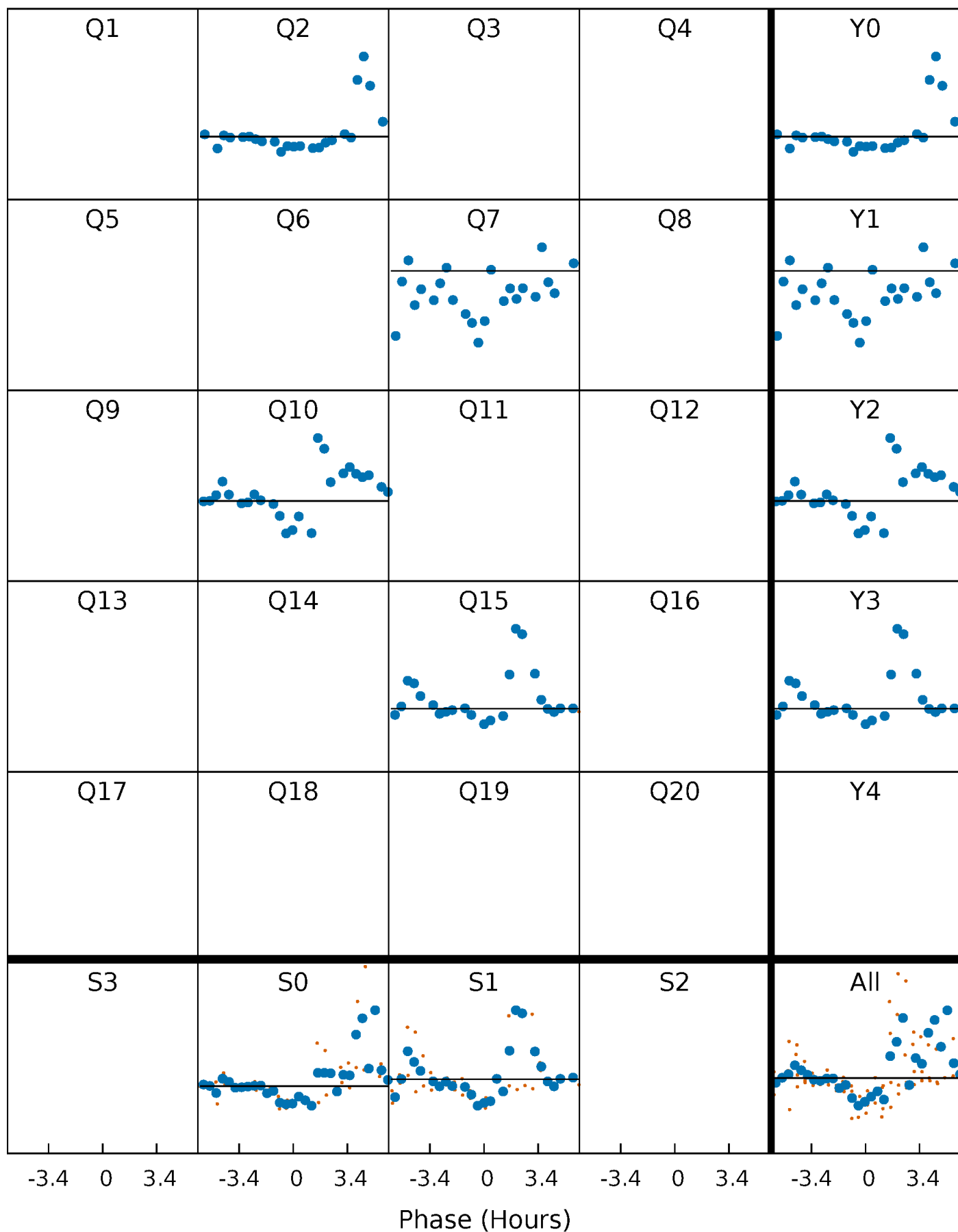
PDC Quarter-Phased Transit Curves

TCE 003526481-07 $P=229.171012$ Days $T_0=246.407054$ (BKJD)



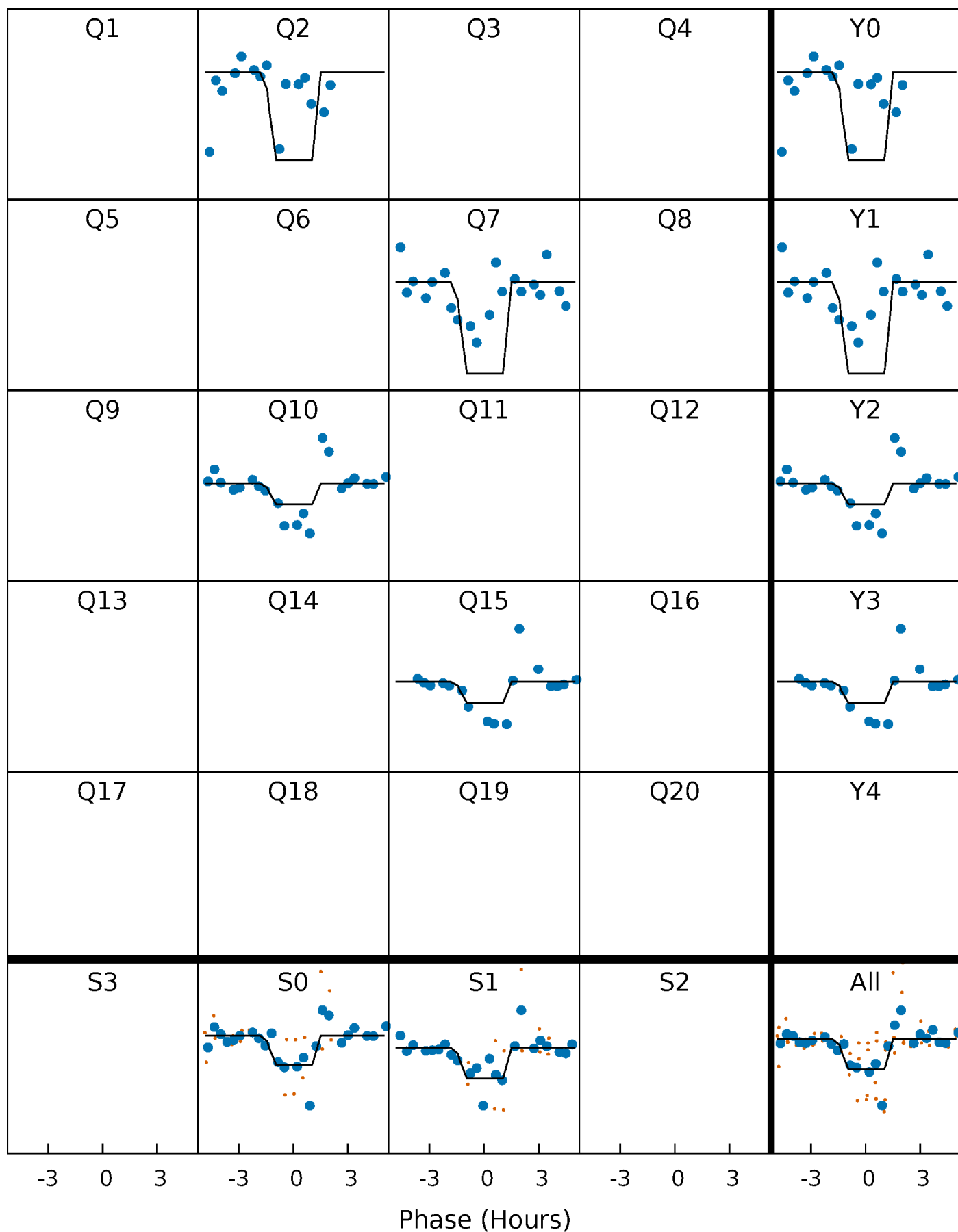
DV Quarter-Phased Transit Curves

TCE 003526481-07 P=229.171012 Days $T_0=246.407054$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

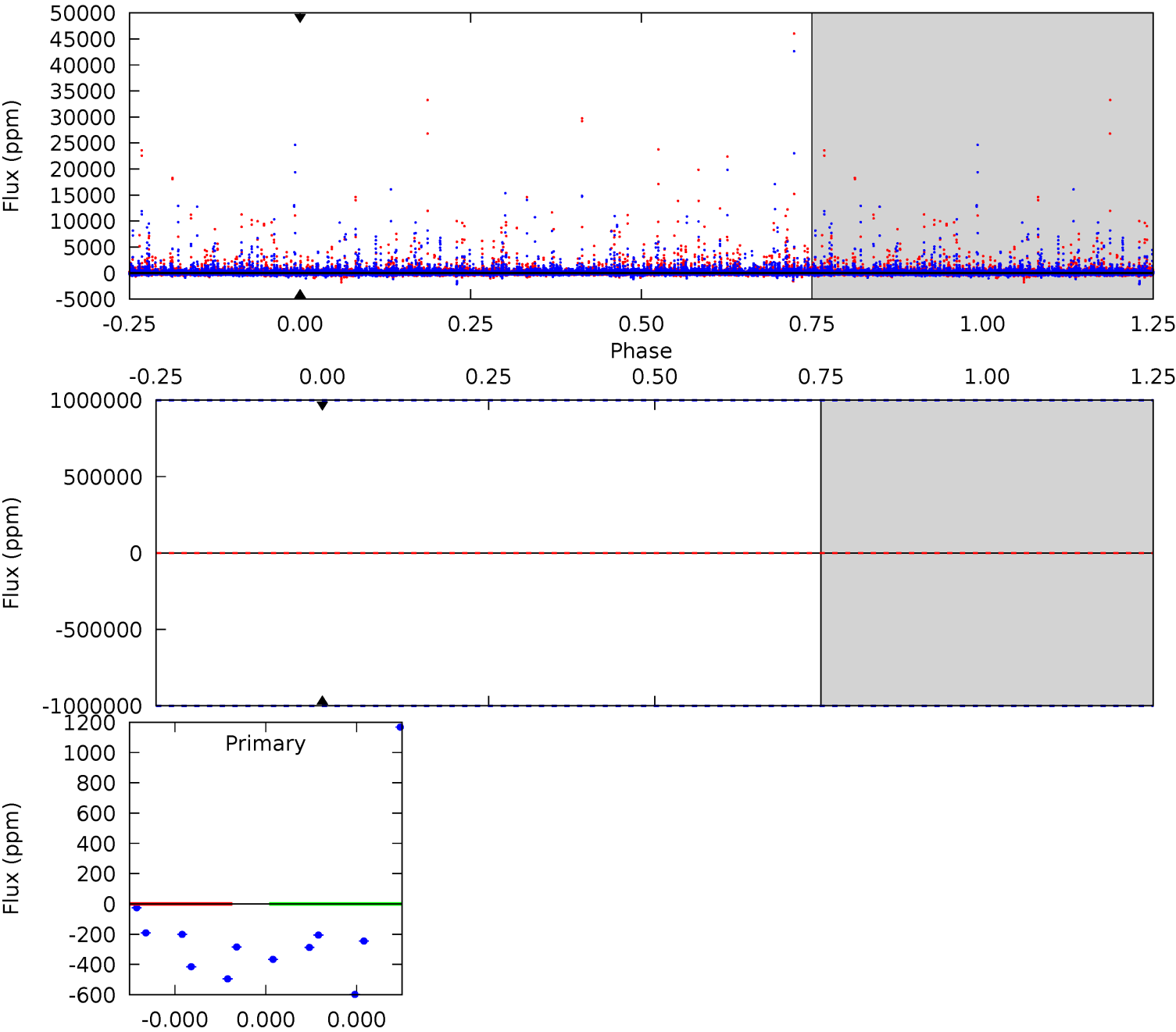
TCE 003526481-07 $P=229.171012$ Days $T_0=246.406782$ (BKJD)



DV Model-Shift Uniqueness Test

003526481-07, P = 229.171012 Days, E = 17.236042 Days

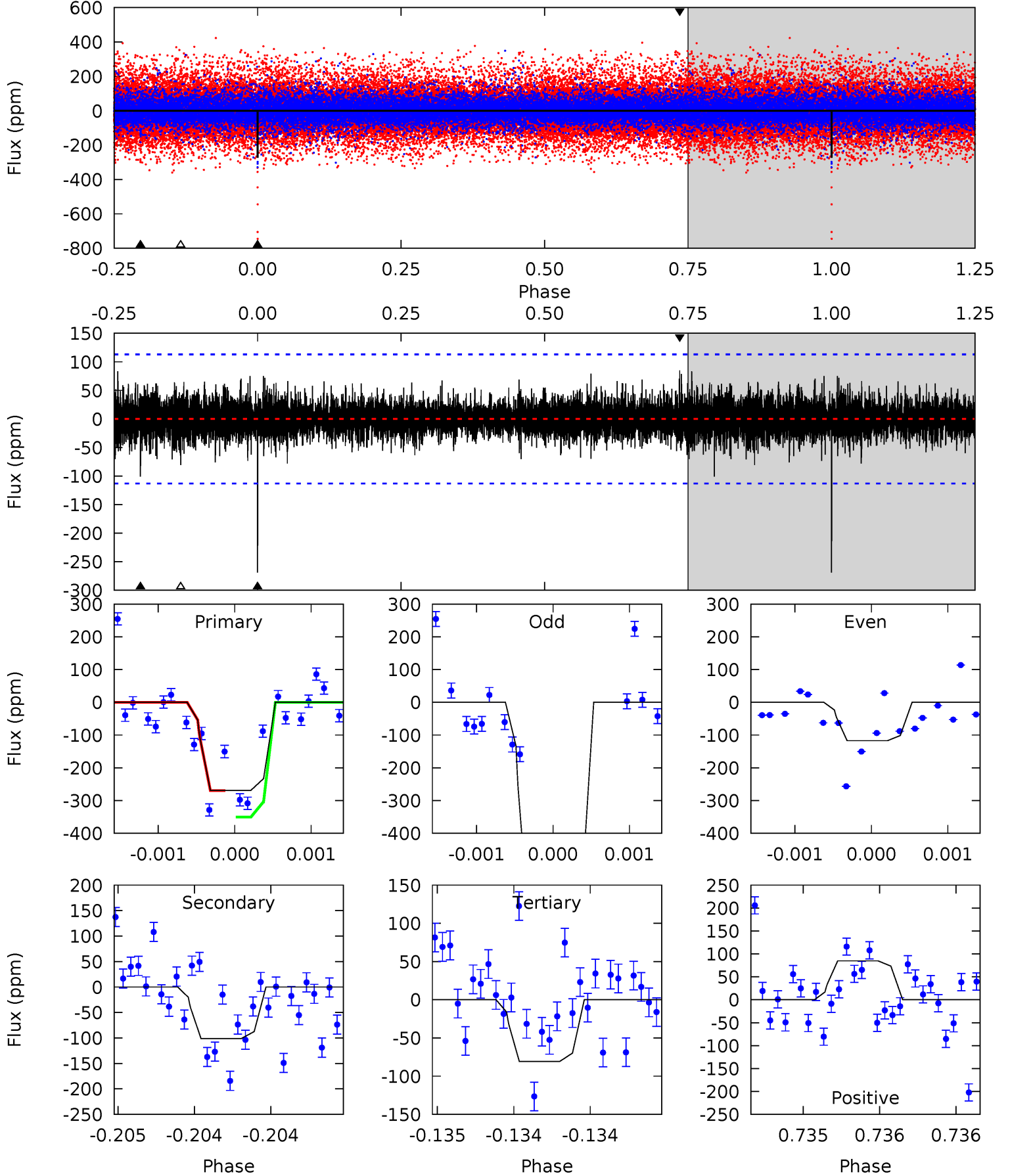
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

003526481-07, P = 229.171012 Days, E = 17.235770 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.2	4.96	3.97	4.17	5.56	3.46	0.92	9.26	9.06	1.00	0.79	14.8	1.00	0.24	2.00



Stellar Parameters For KIC 003526481

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5687^{+170}_{-153}	$3.760^{+0.584}_{-0.146}$	$0.180^{+0.200}_{-0.300}$	$2.572^{+0.628}_{-1.466}$	$1.387^{+0.134}_{-0.402}$	$0.115^{+0.870}_{-0.045}$
	+3%/-3%	+16%/-4%	+111%/-167%	+24%/-57%	+10%/-29%	+758%/-40%
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 003526481-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$17.53^{+20.04}_{-13.22}$	604^{+55}_{-94}	-3813^{+23807}_{-17952}	$-591.231^{+207798.568}_{-206608.421}$
Alt.	-101 ± 20	$19.01^{+21.10}_{-13.70}$	611^{+53}_{-87}	2811^{+1272}_{-468}	103^{+1199}_{-81}

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

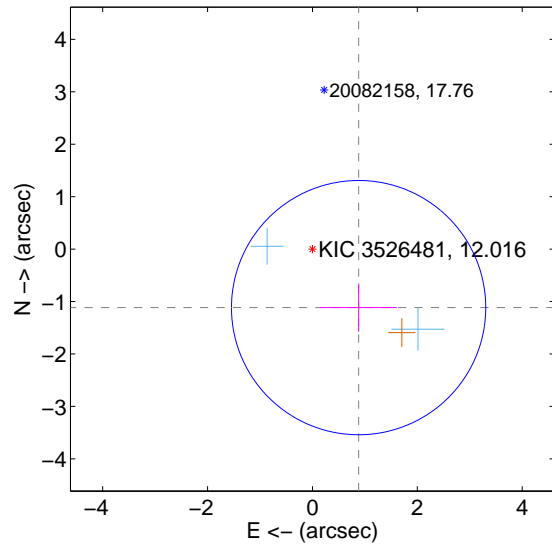
Supplemental centroid analysis for 003526481-07. Kepler magnitude: 12.02. Transit SNR -1.00

There are 2 quarters with good PRF difference image offsets

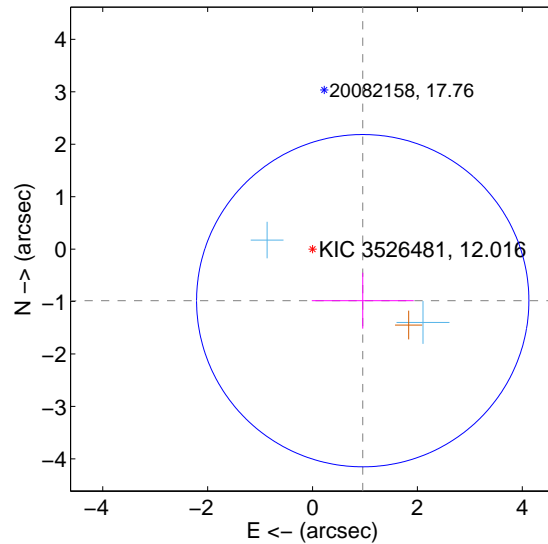
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.421 ± 0.808	1.76	-0.880 ± 0.728	-1.116 ± 0.460
PRF-fit source offset from KIC position	1.372 ± 1.056	1.30	-0.957 ± 0.971	-0.983 ± 0.532
photometric centroid source offset	0.73 ± 0.79	0.92	-0.07 ± 0.81	0.72 ± 0.79

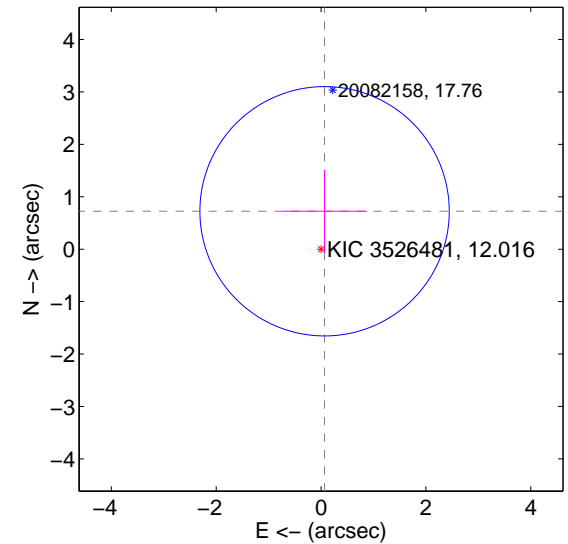
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

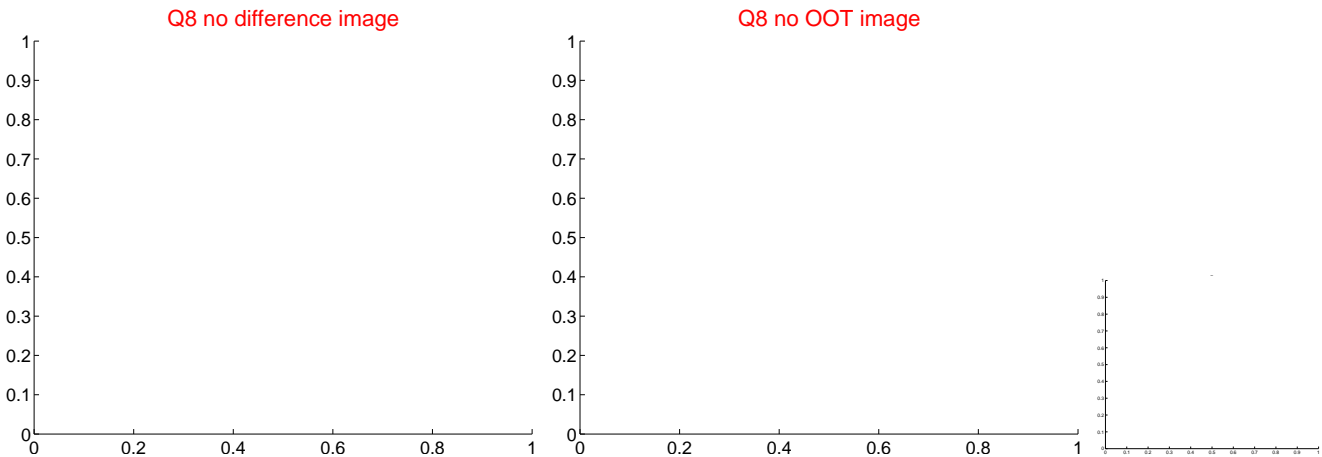
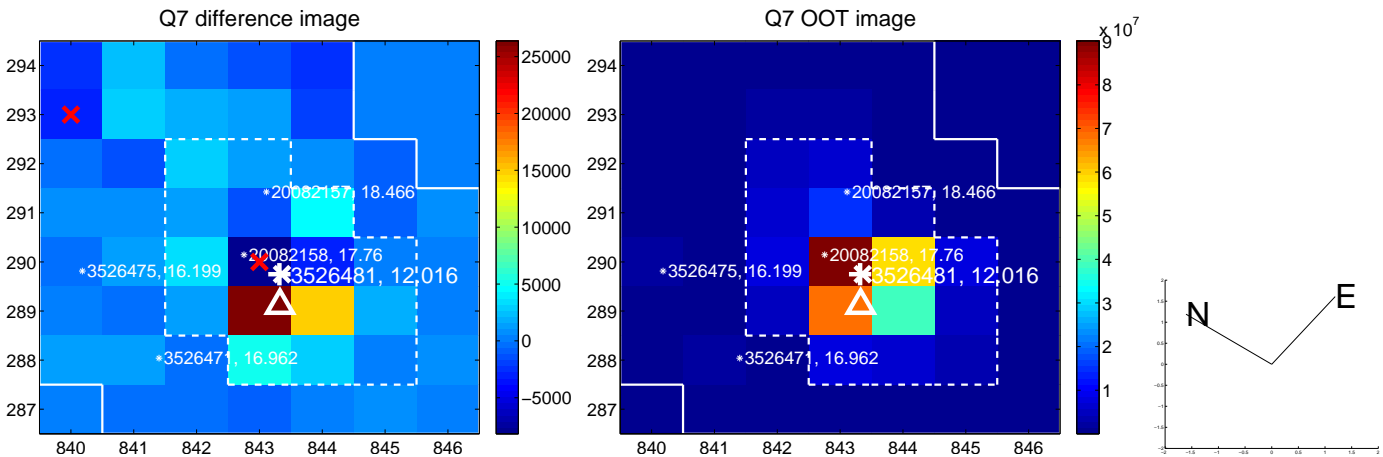
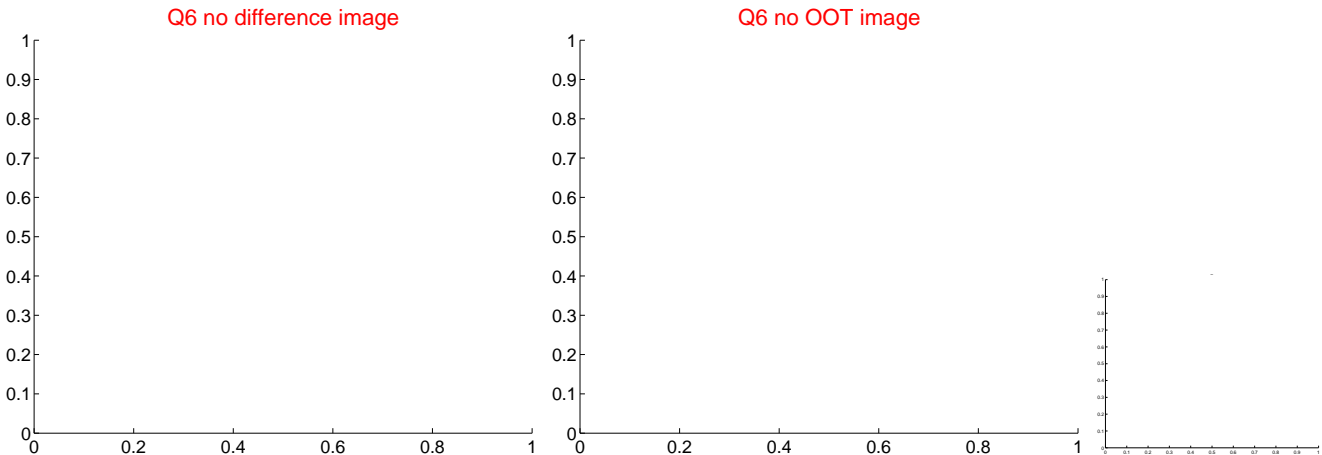
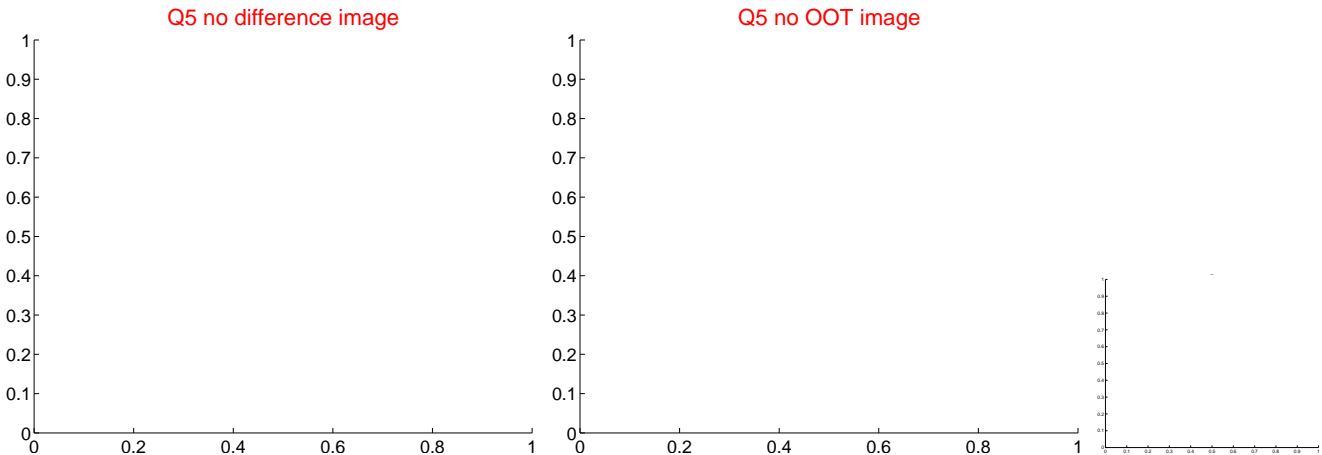


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

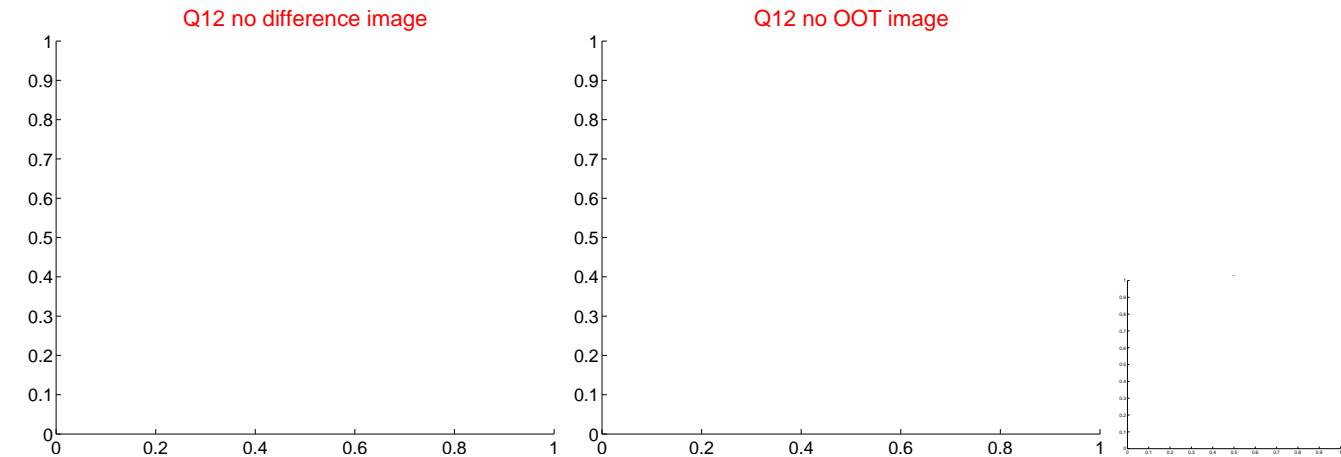
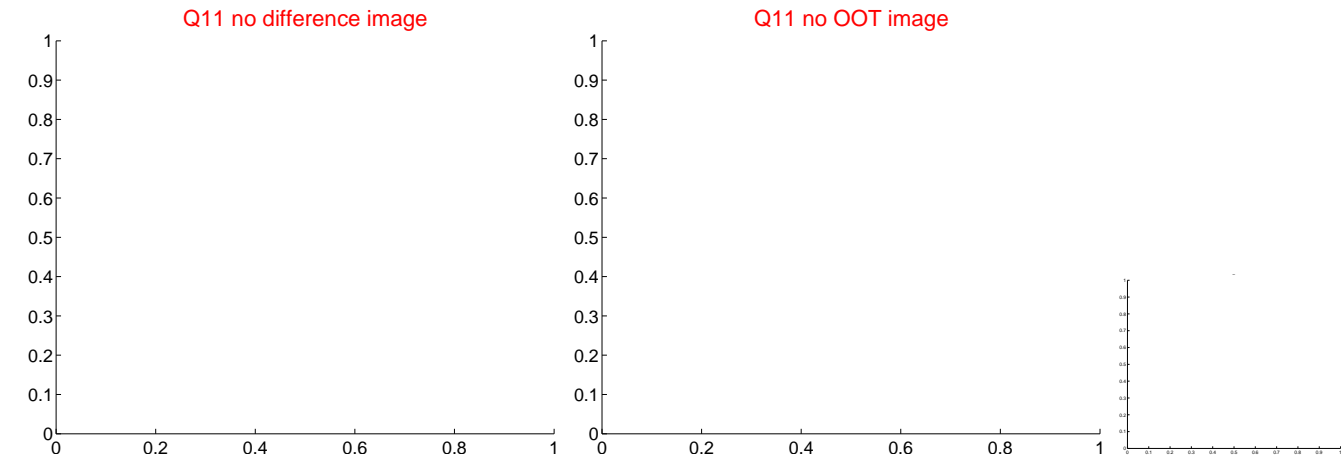
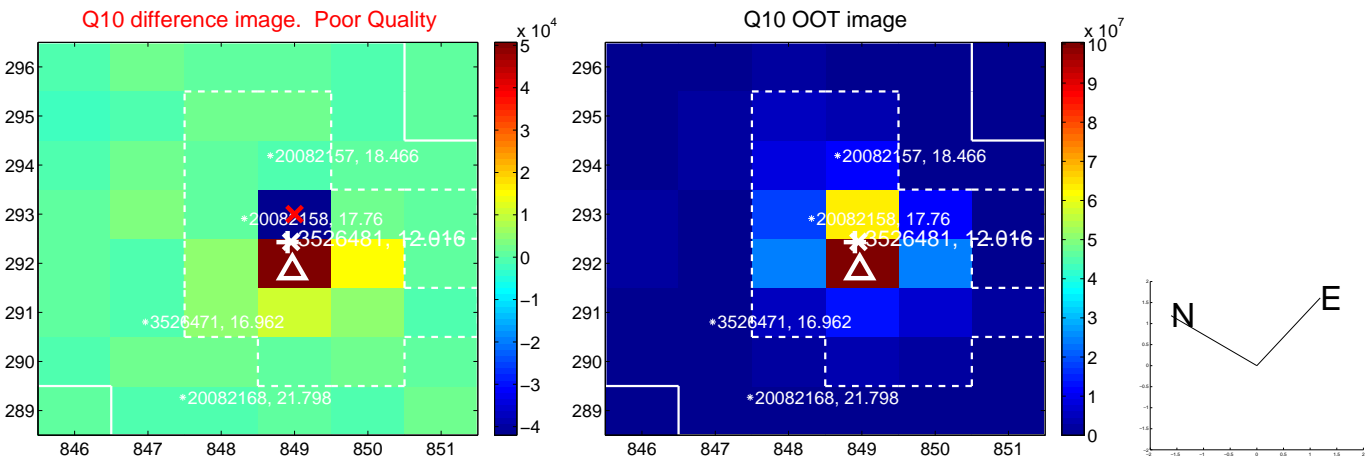
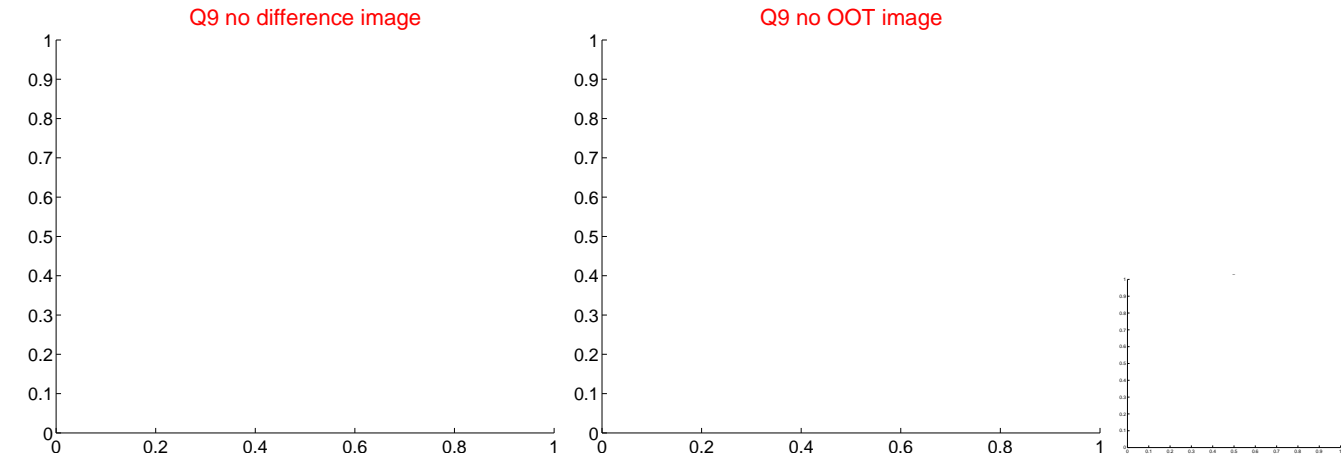
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



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

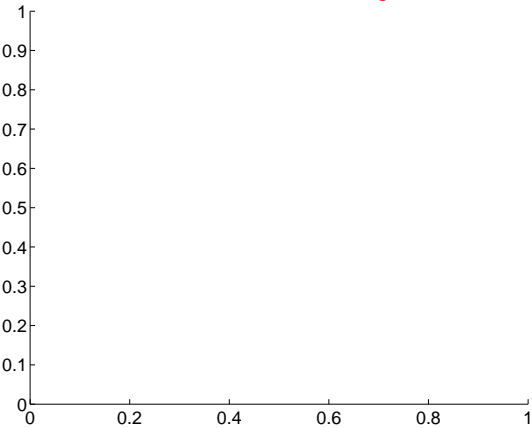
Q13 no difference image



Q13 no OOT image



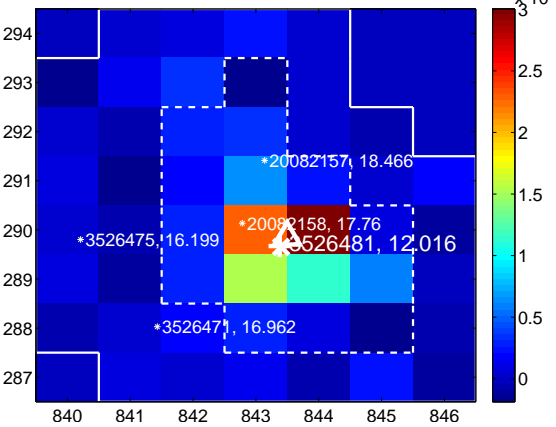
Q14 no difference image



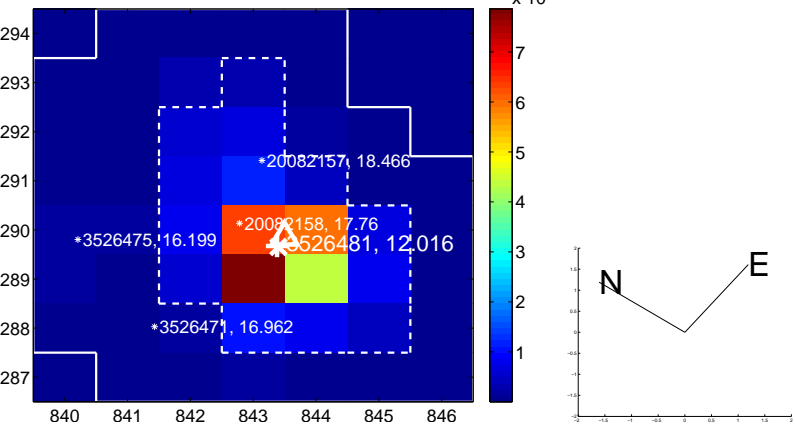
Q14 no OOT image



Q15 difference image



Q15 OOT image



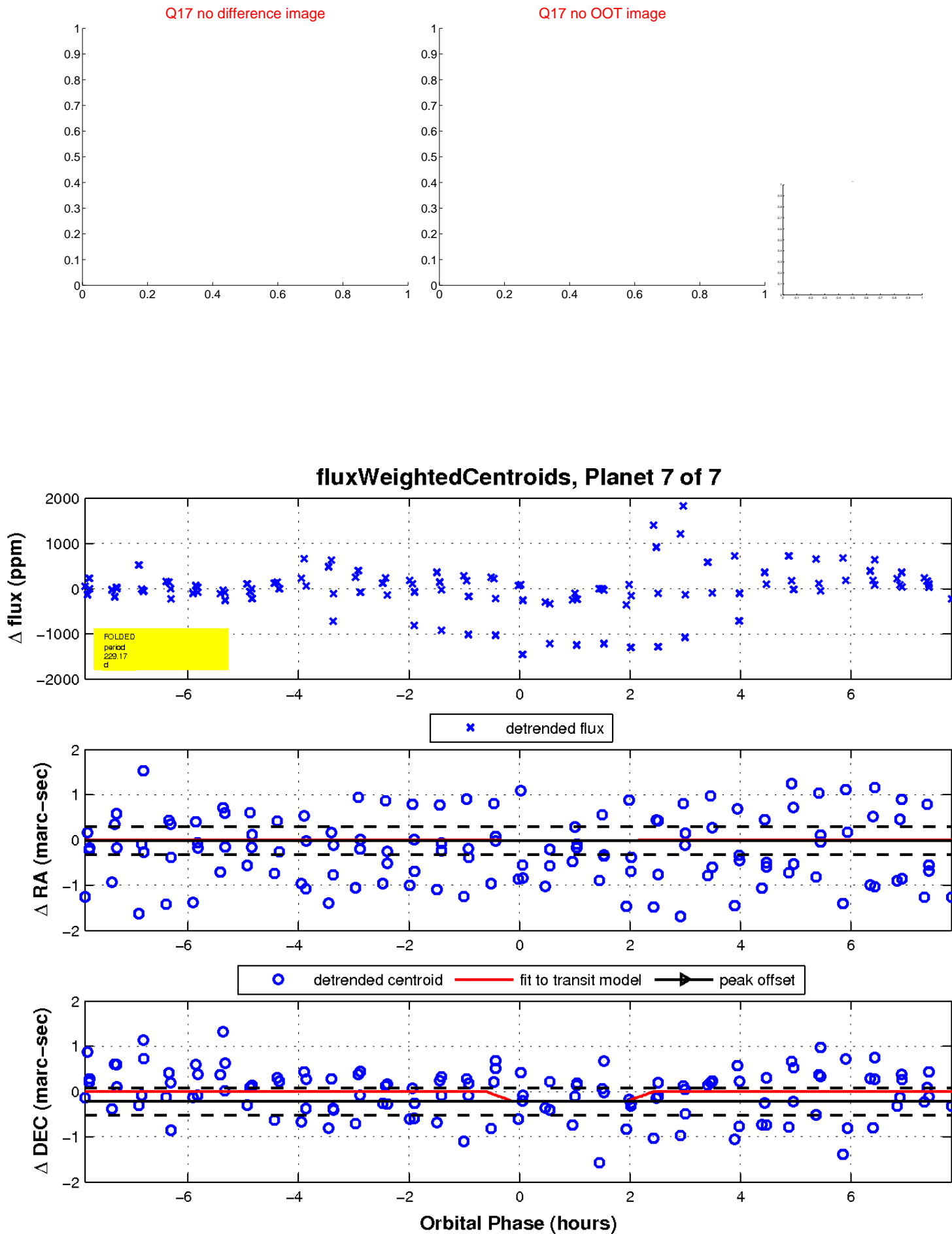
Q16 no difference image



Q16 no OOT image



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



UKIRT Image

Declination

