

KIC 006310866

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})
006310866-01	OBS	No	3.408065	134.688412	248.4	12.000	7.7	-1.0	0.83	5864	1.30	395.35
006310866-02	OBS	No	514.744213	464.224093	698.5	14.236	13.9	6.4	0.83	5864	2.41	0.49
006310866-03	OBS	No	633.769688	249.866000	1075.5	46.281	9.6	7.2	0.83	5864	5.20	0.37

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006310866-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS
006310866-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006310866-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

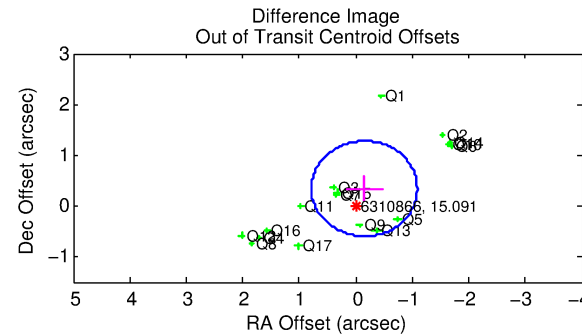
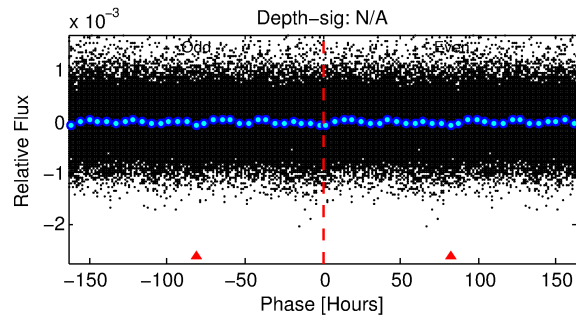
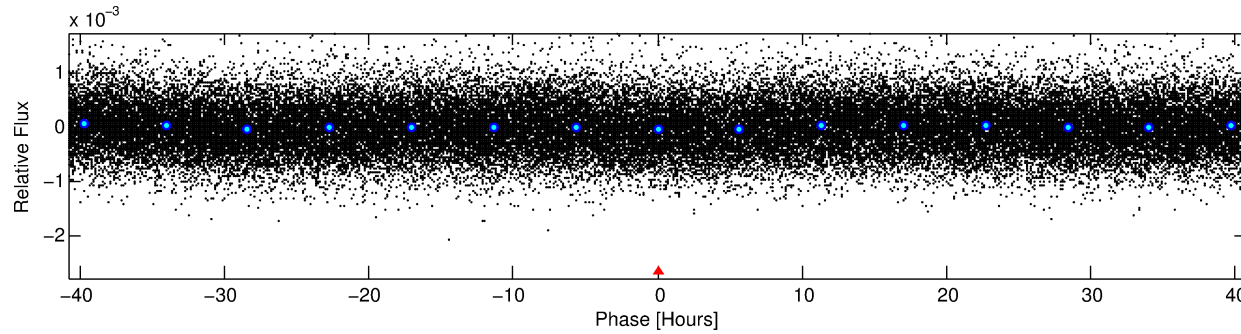
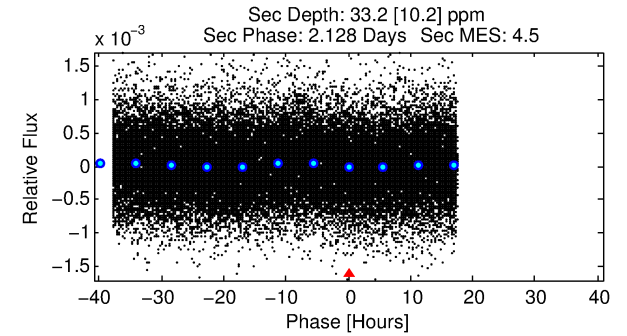
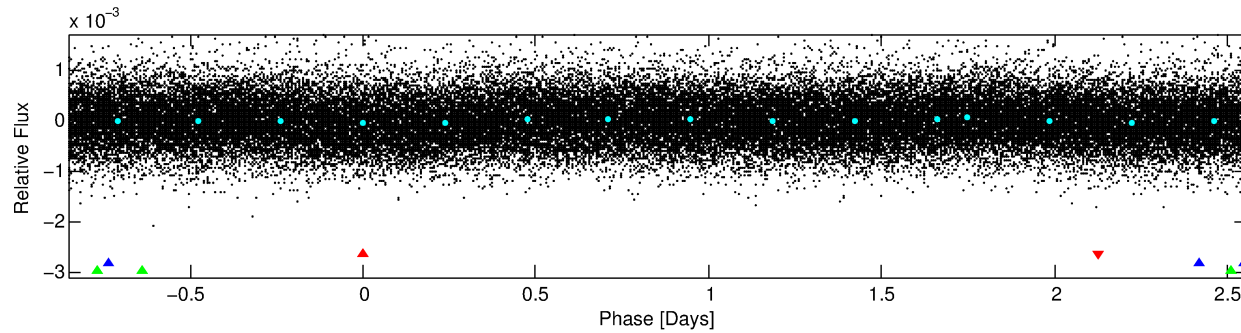
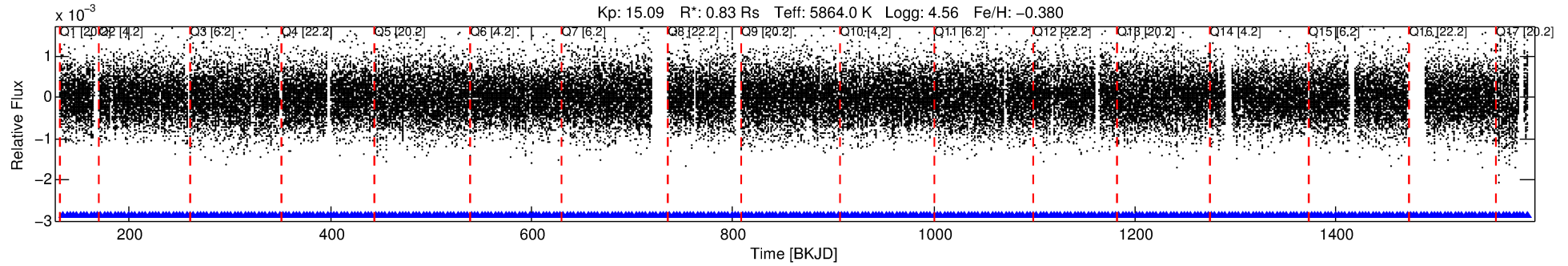
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006310866-01

No Significant Match Found

DV One-Page Summary

KIC: 6310866 Candidate: 1 of 3 Period: 3.408 d



TPS TCE Results:

Period = 3.40806 d
Epoch = 134.6884 BKJD

DV fit results are unavailable

DV Diagnostic Results:

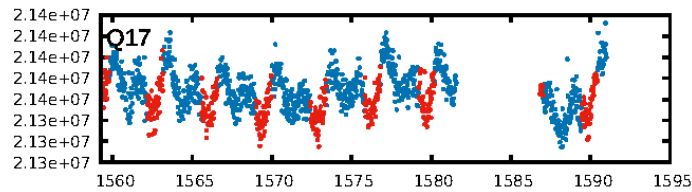
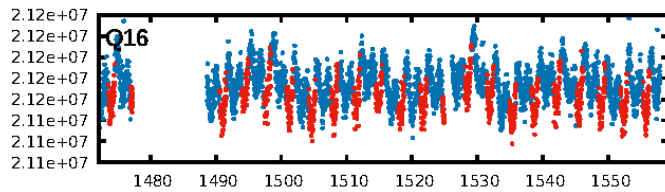
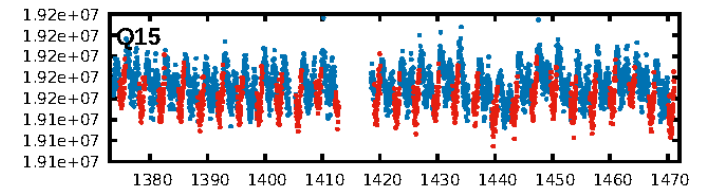
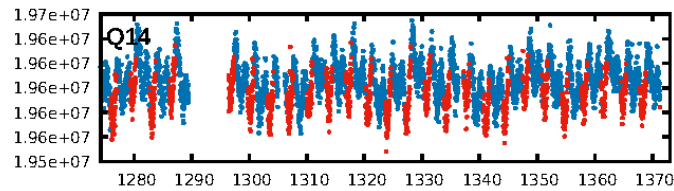
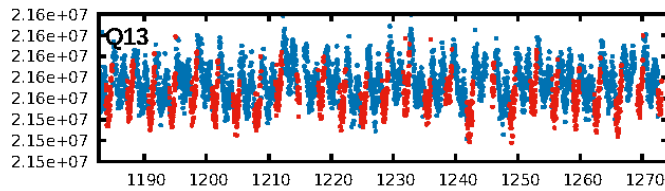
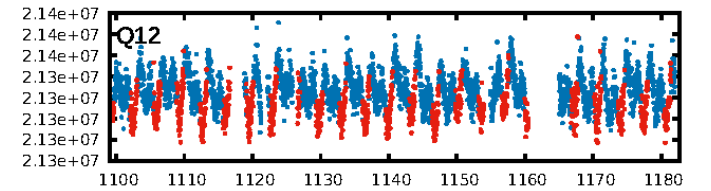
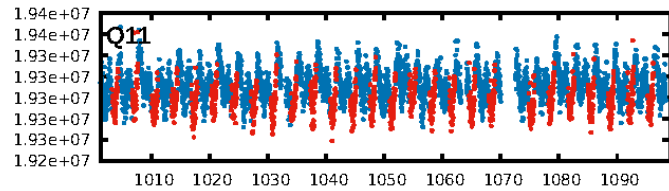
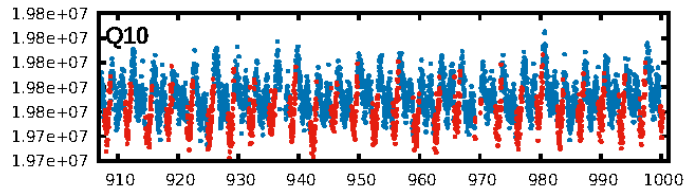
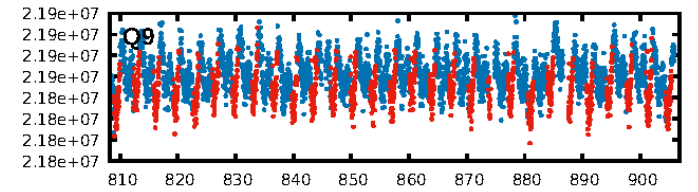
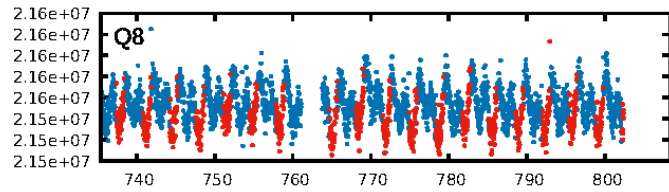
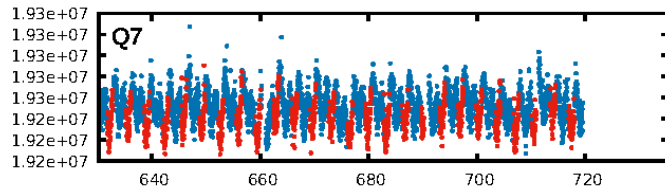
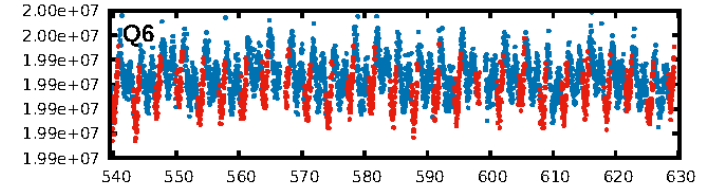
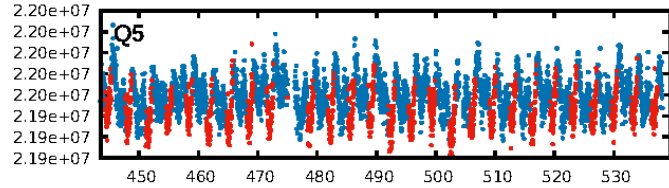
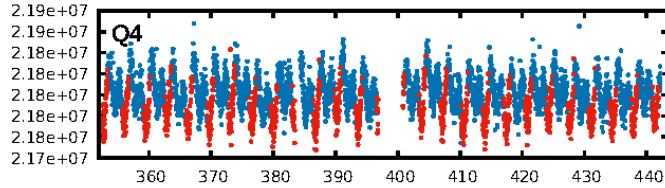
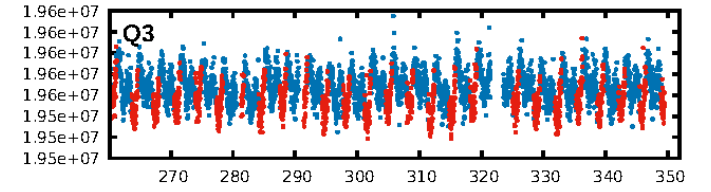
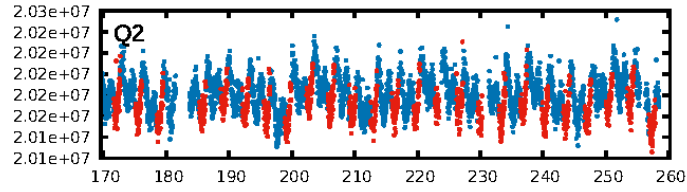
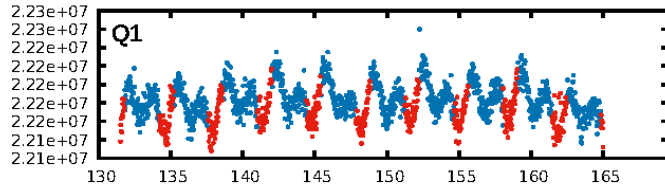
ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [659.12σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.21e-11
RollingBand-fgt: 1.00 [389/389]
GhostDiagnostic-chr: 1.06

Centroid-sig: 12.1%
Centroid-so: 0.069 arcsec [1.14σ]
OotOffset-rm: 0.369 arcsec [1.18σ]
KicOffset-rm: 0.342 arcsec [1.19σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

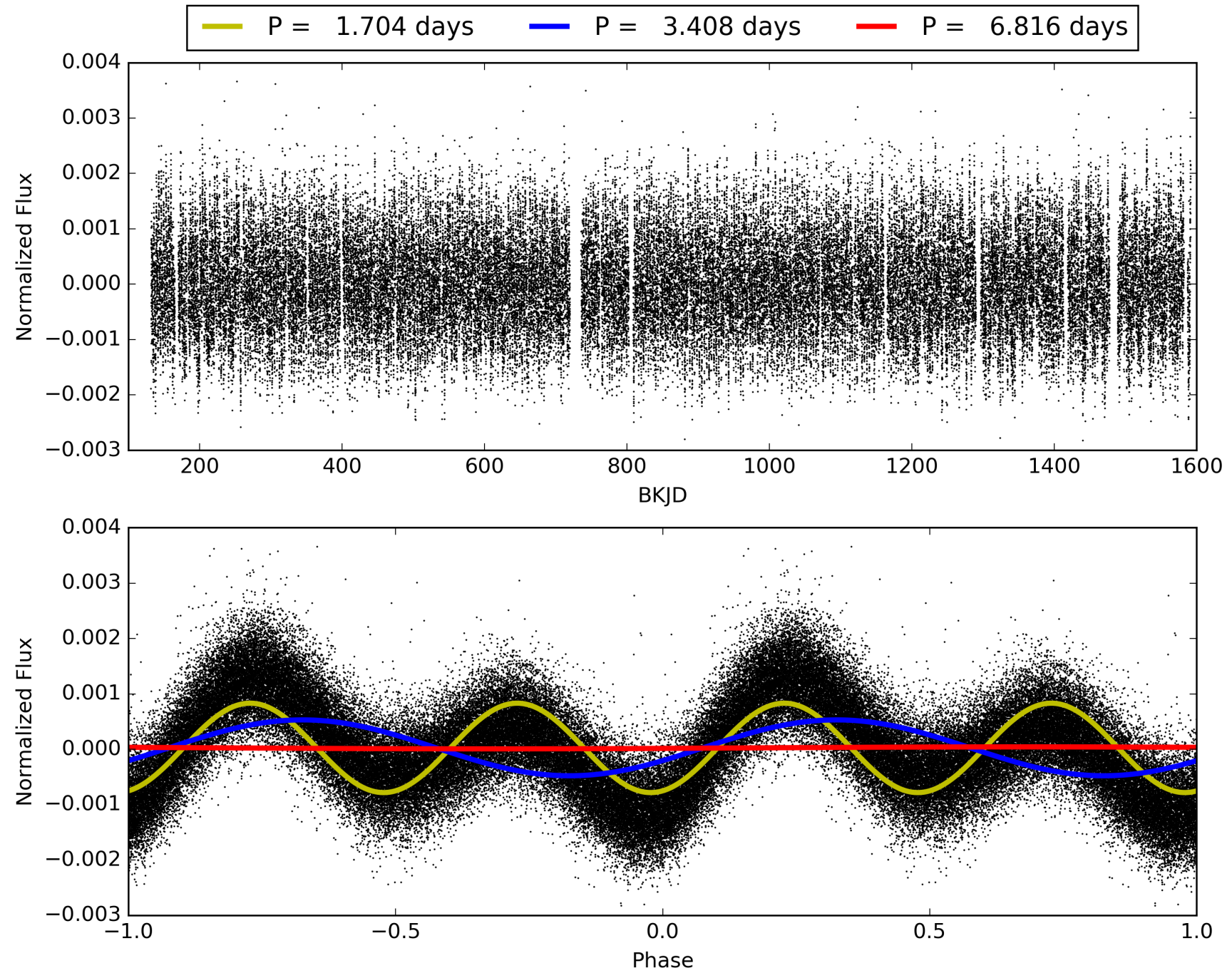
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:54:09 Z

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

TCE 006310866-01, PDC Light Curves

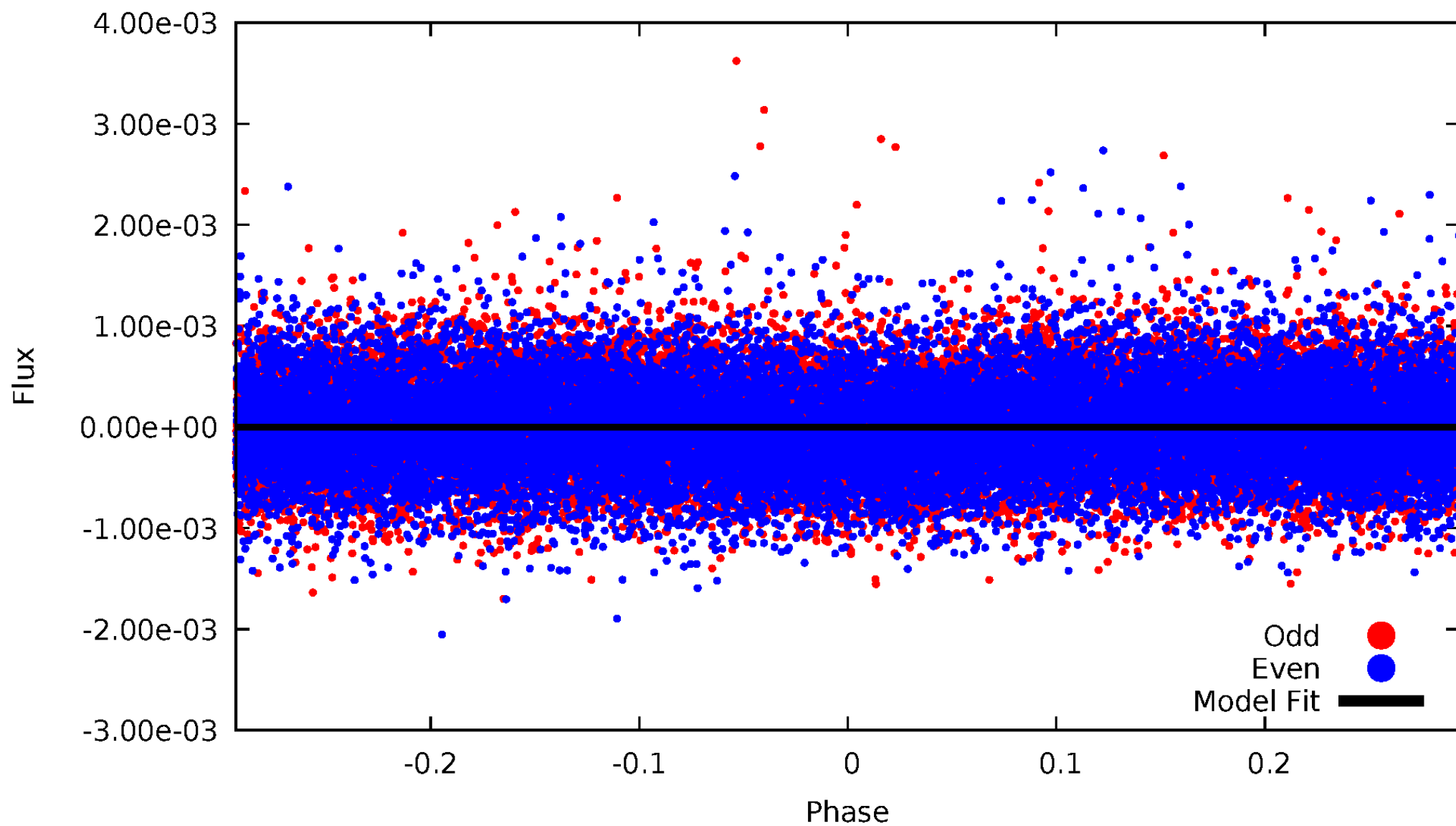


TCE 006310866-01



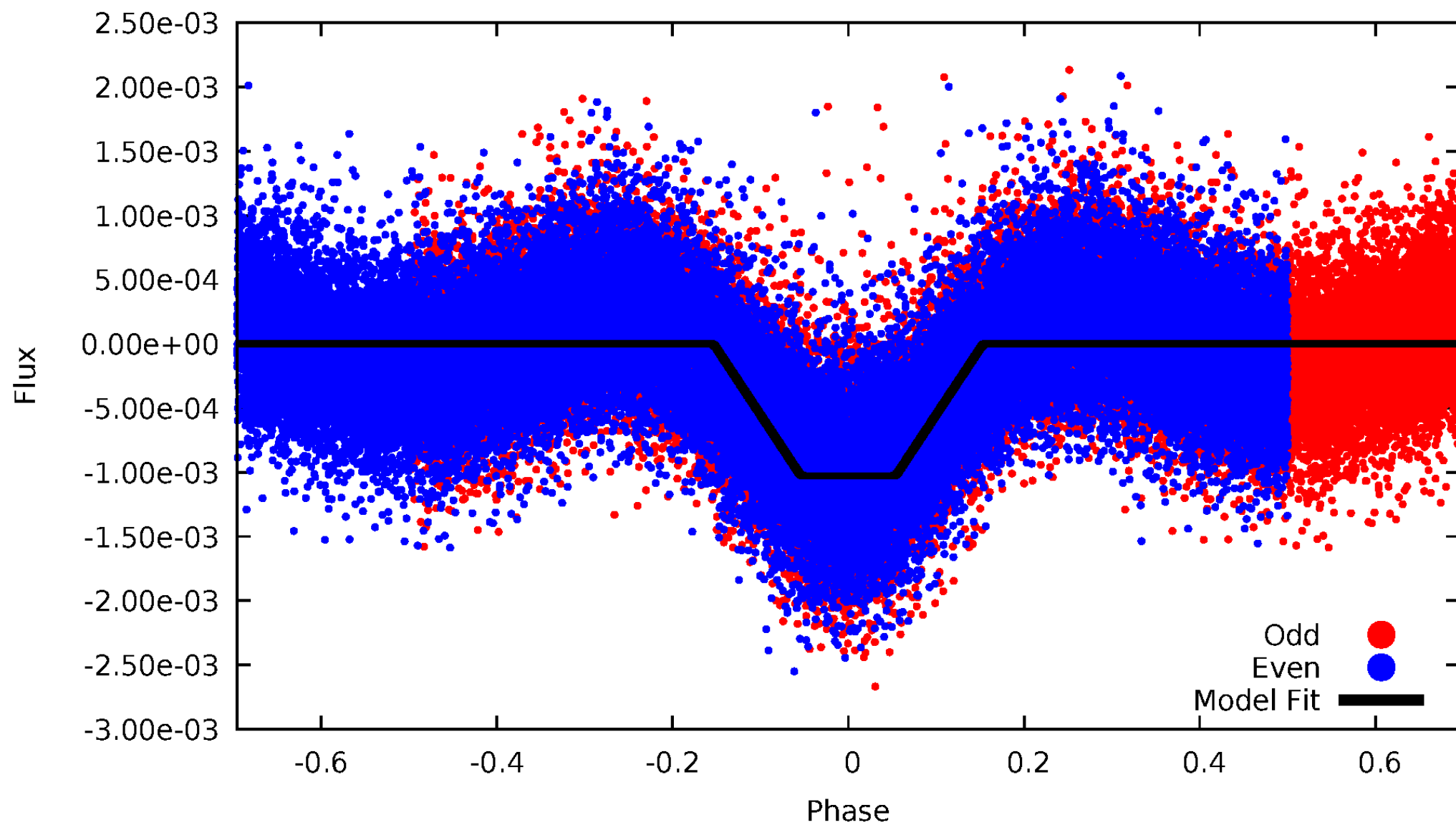
DV Odd/Even

TCE 006310866-01

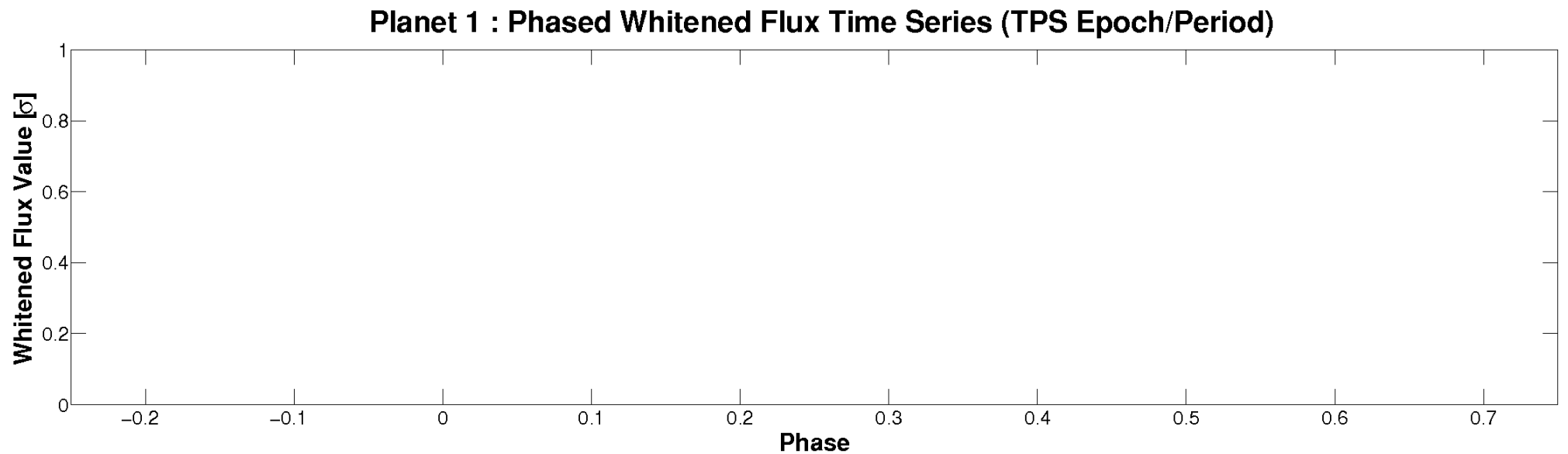
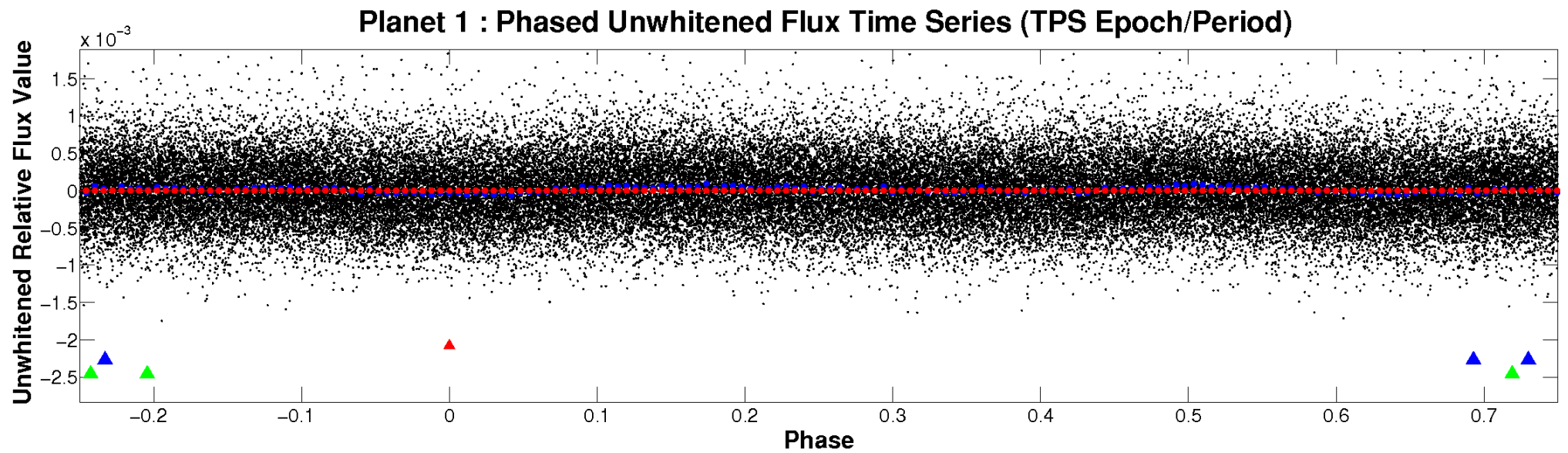


ALT Odd/Even

TCE 006310866-01

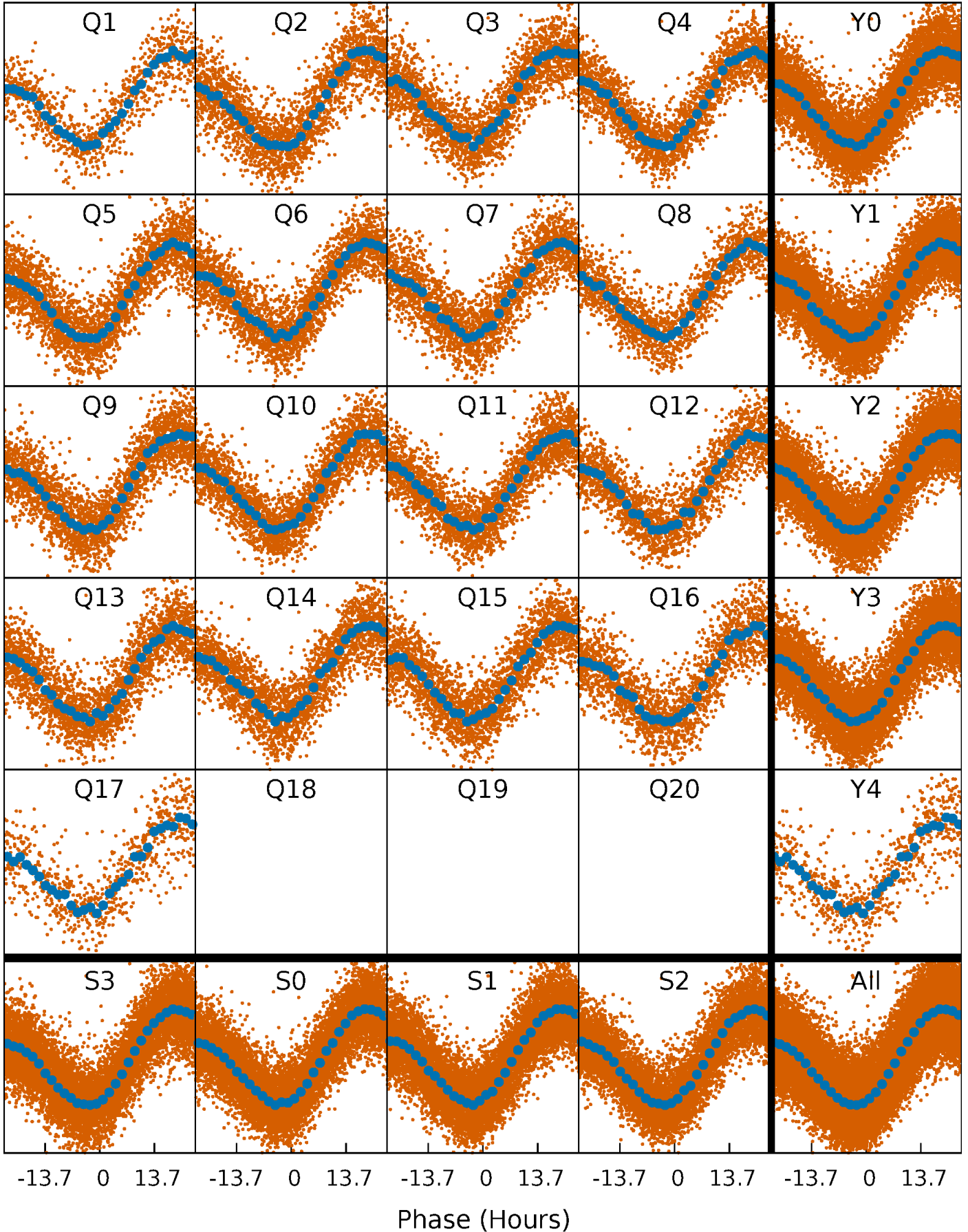


Non-Whitened Vs. Whitened Light Curve



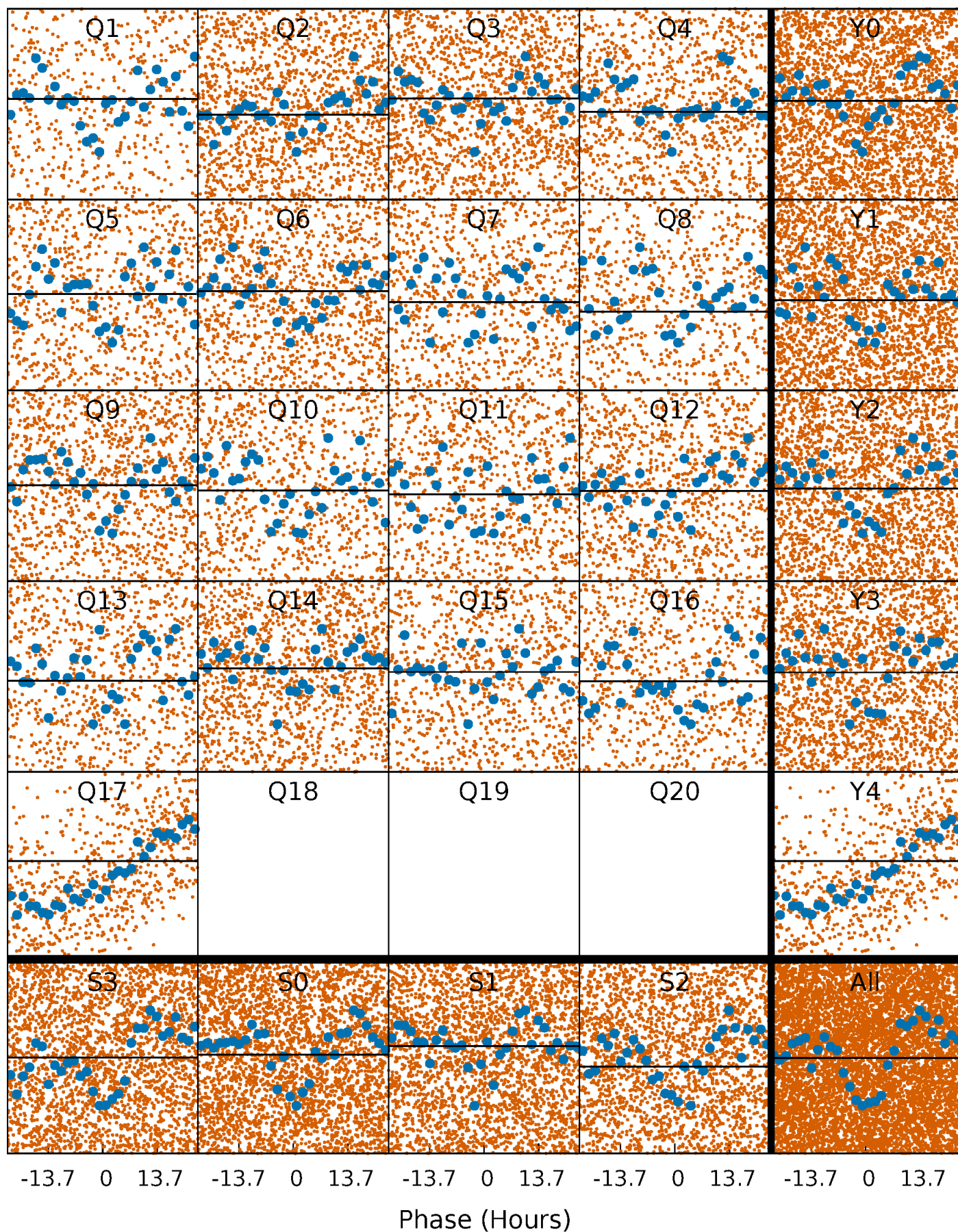
PDC Quarter-Phased Transit Curves

TCE 006310866-01 P= 3.408065 Days $T_0=134.688412$ (BKJD)



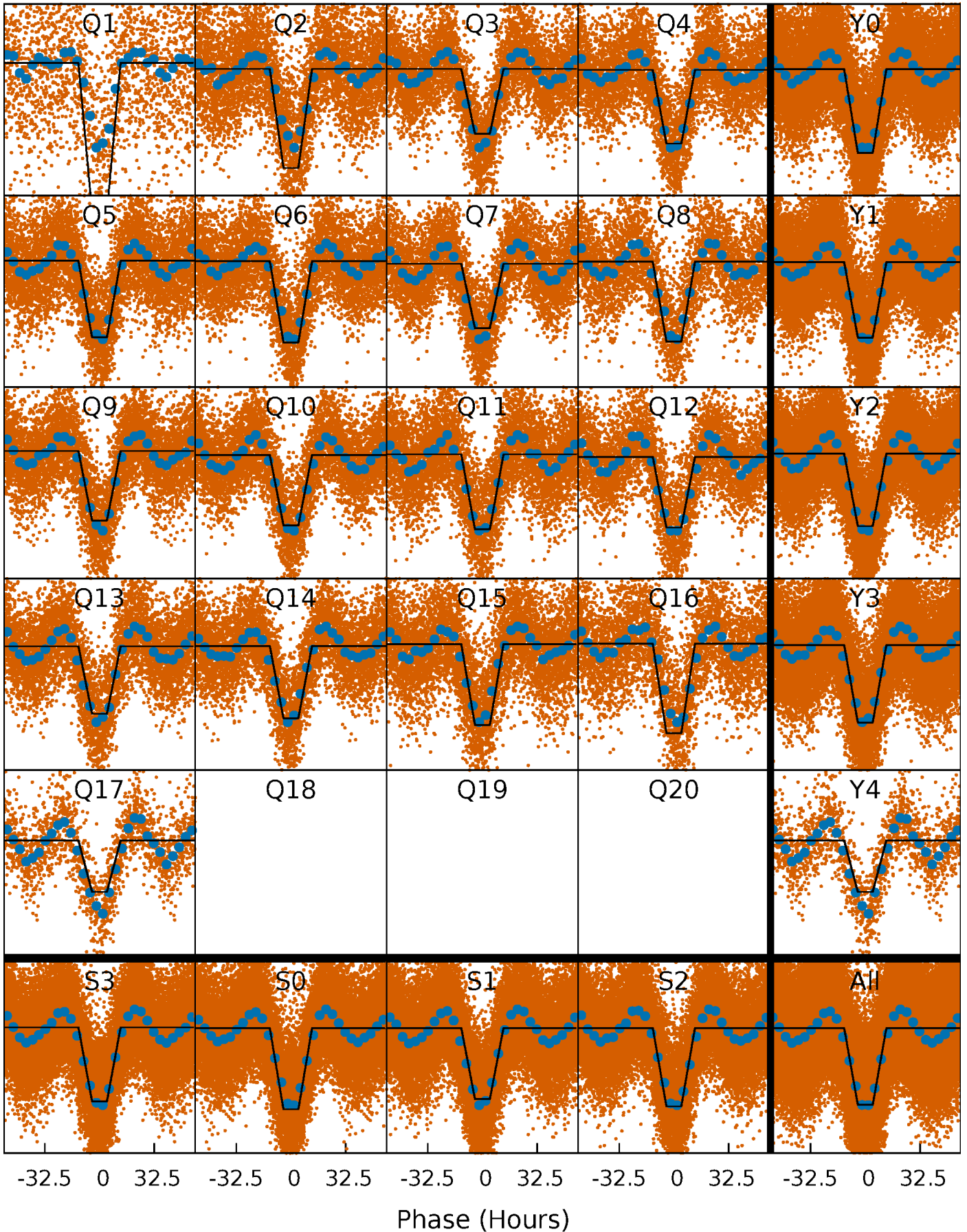
DV Quarter-Phased Transit Curves

TCE 006310866-01 P= 3.408065 Days $T_0=134.688412$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

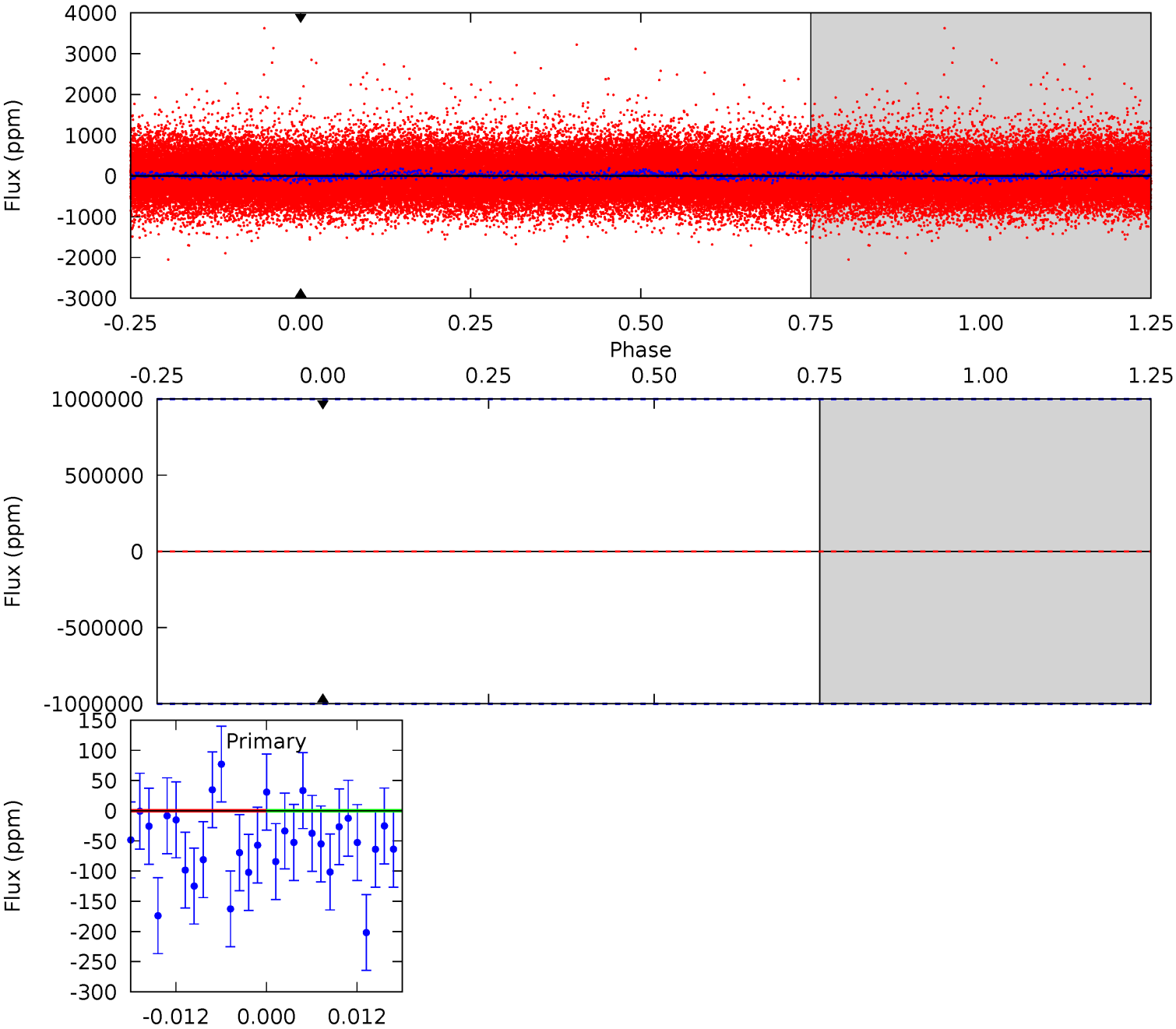
TCE 006310866-01 P= 3.408065 Days $T_0=134.630379$ (BKJD)



DV Model-Shift Uniqueness Test

006310866-01, P = 3.408065 Days, E = 131.280347 Days

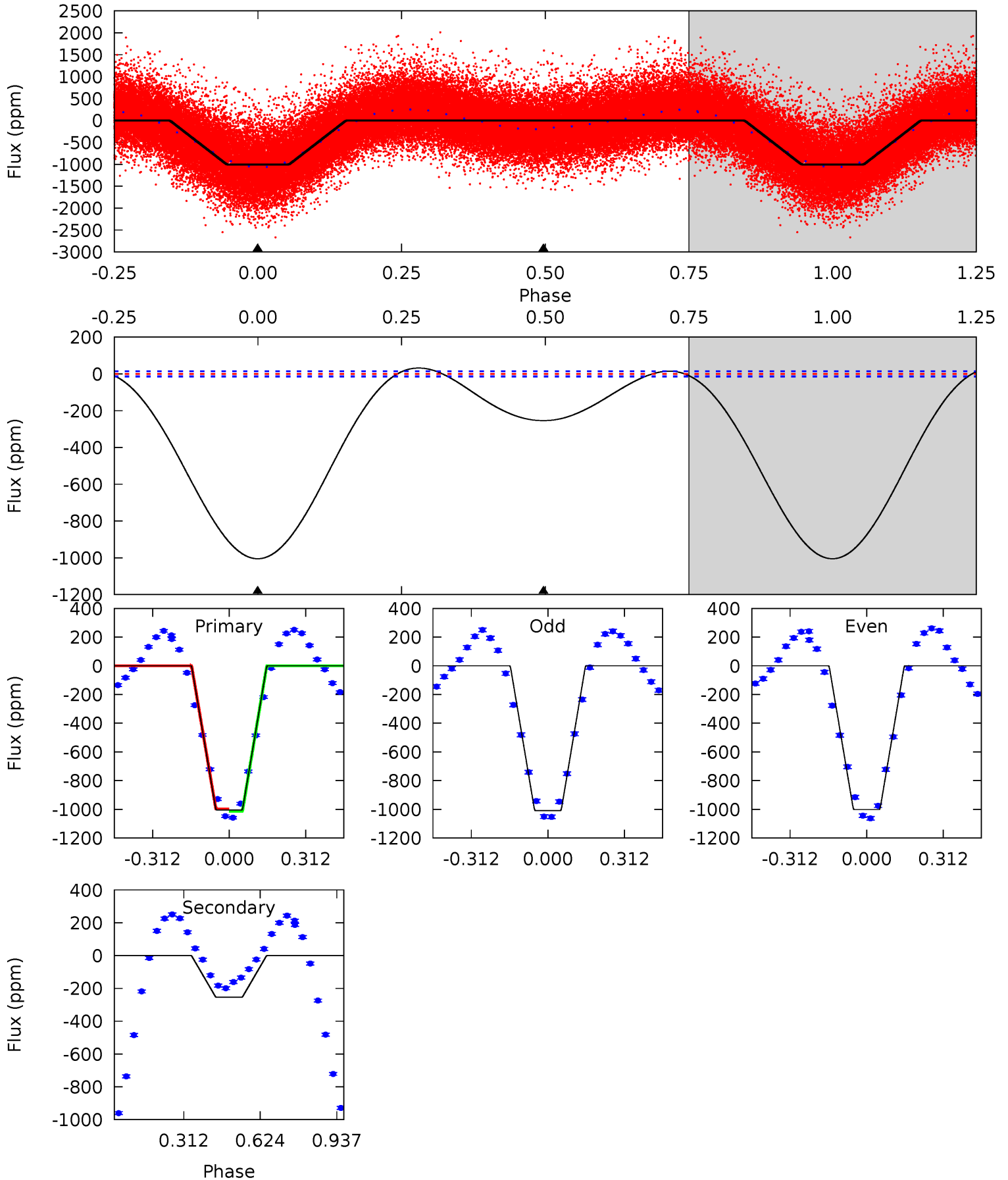
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006310866-01, P = 3.408065 Days, E = 131.222314 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
305.4	77.2	0	0	4.32	1.01	7.06	305.4	305.4	77.2	77.2	0.98	1.01	0.03	2.32



Stellar Parameters For KIC 006310866

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5864^{+158}_{-175}	$4.557^{+0.046}_{-0.184}$	$-0.380^{+0.300}_{-0.300}$	$0.826^{+0.236}_{-0.079}$	$0.898^{+0.099}_{-0.109}$	$2.241^{+0.531}_{-1.105}$
	+3%/-3%	+1%/-4%	+79%/-79%	+29%/-10%	+11%/-12%	+24%/-49%
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 006310866-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$7.06^{+6.97}_{-4.88}$	1617^{+101}_{-71}	3688^{+18196}_{-23569}	11^{+3664}_{-3027}
Alt.	-254 ± 3	$8.01^{+7.66}_{-5.40}$	1619^{+111}_{-74}	3118^{+1494}_{-615}	$3.987^{+33.899}_{-2.985}$

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

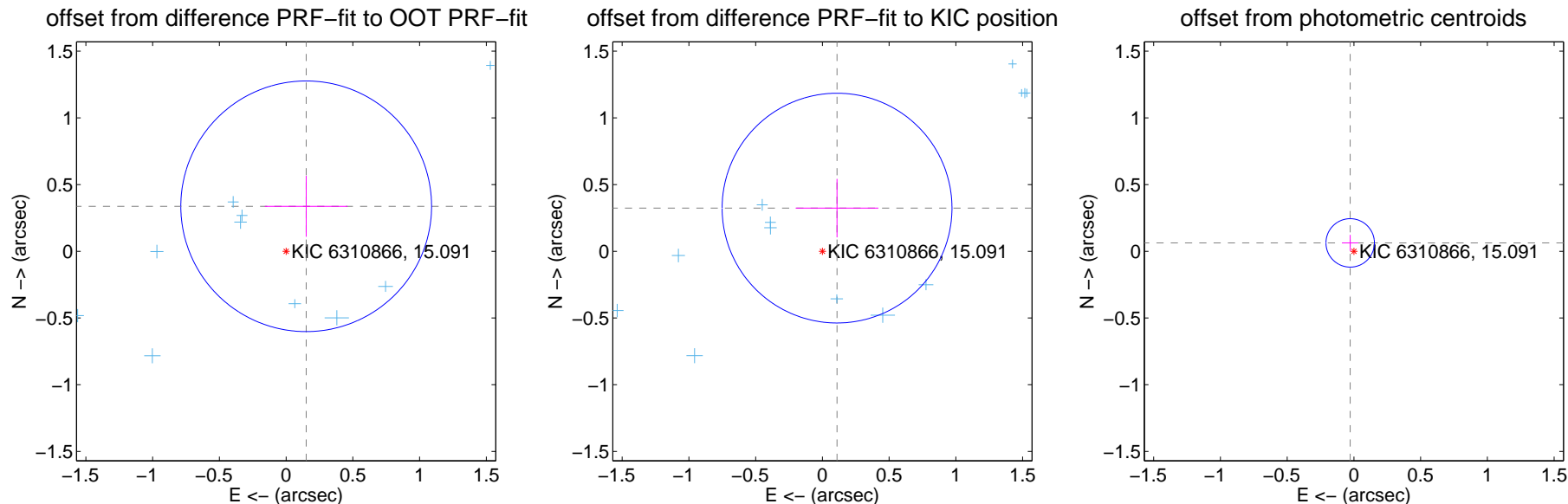
DV Centroid Data

Supplemental centroid analysis for 006310866-01. Kepler magnitude: 15.09. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

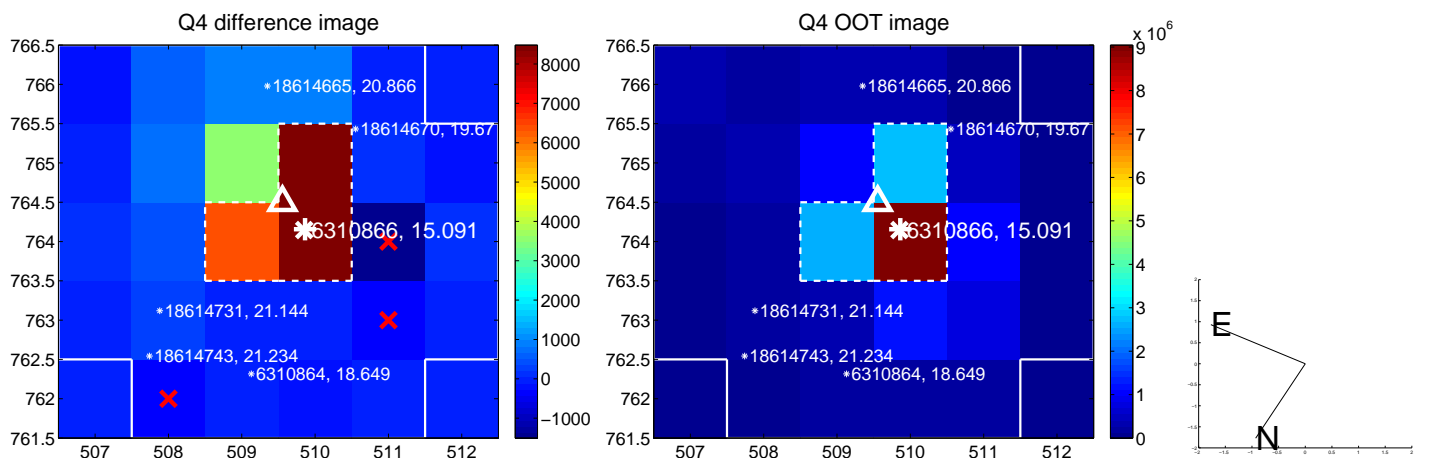
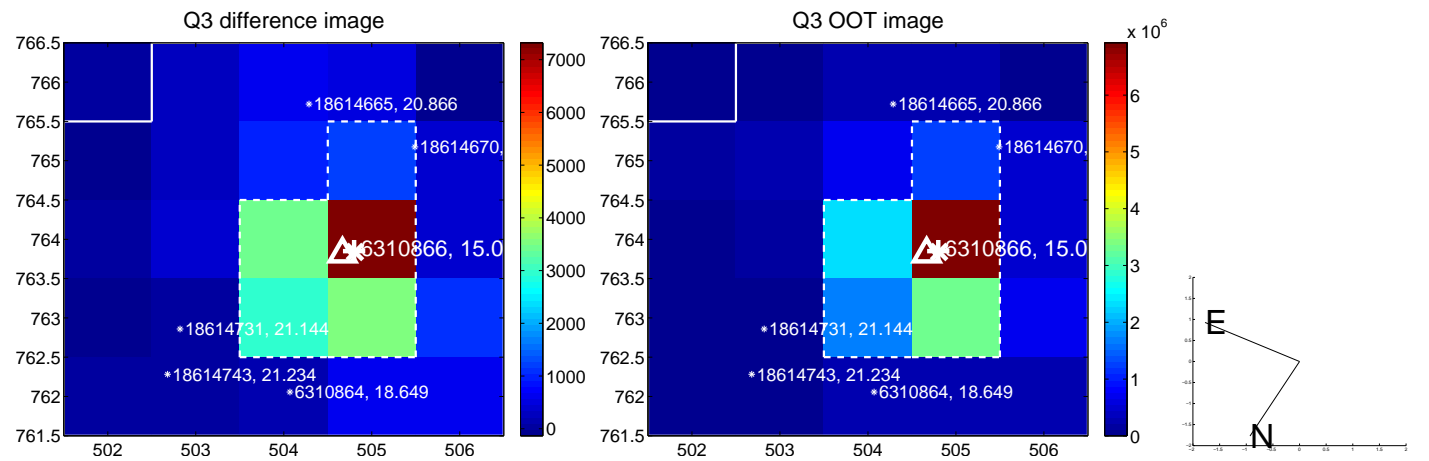
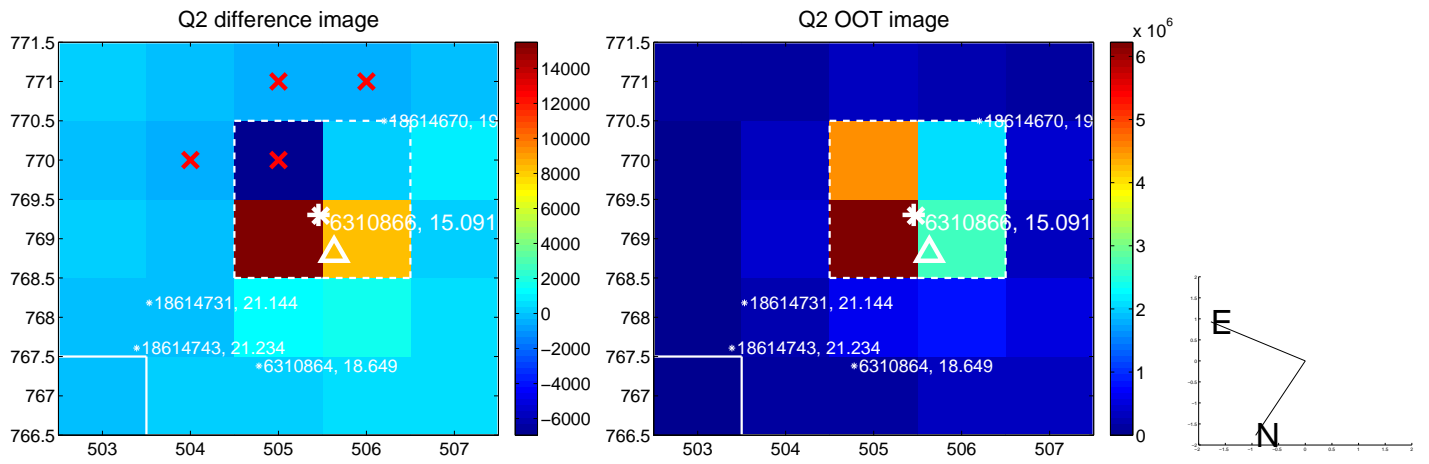
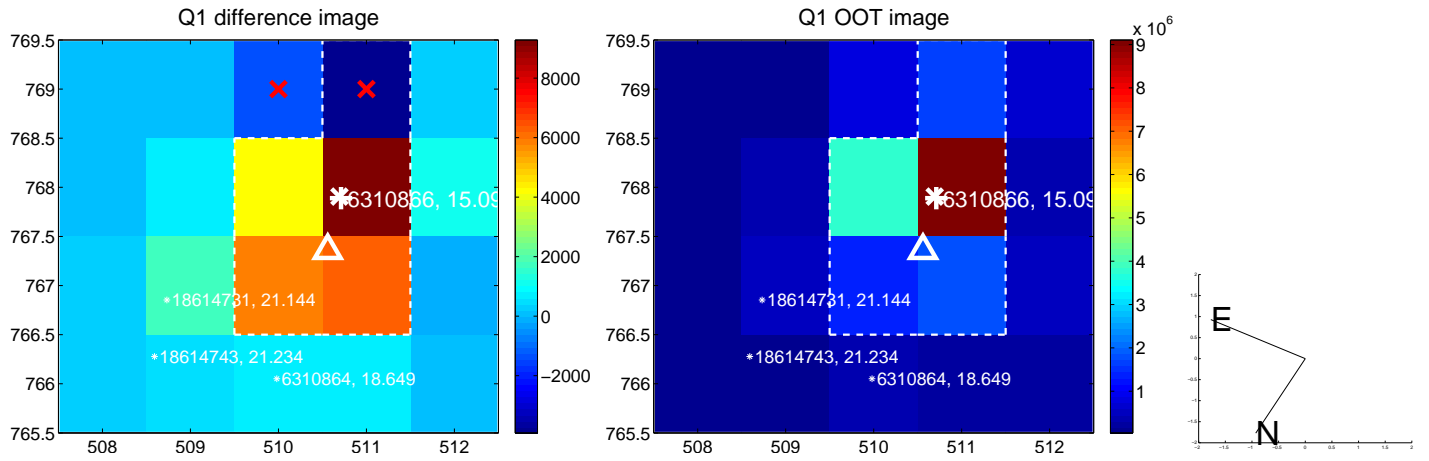
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.369 ± 0.313	1.18	-0.150 ± 0.310	0.337 ± 0.229
PRF-fit source offset from KIC position	0.342 ± 0.287	1.19	-0.110 ± 0.310	0.324 ± 0.219
photometric centroid source offset	0.07 ± 0.06	1.14	0.03 ± 0.06	0.06 ± 0.06

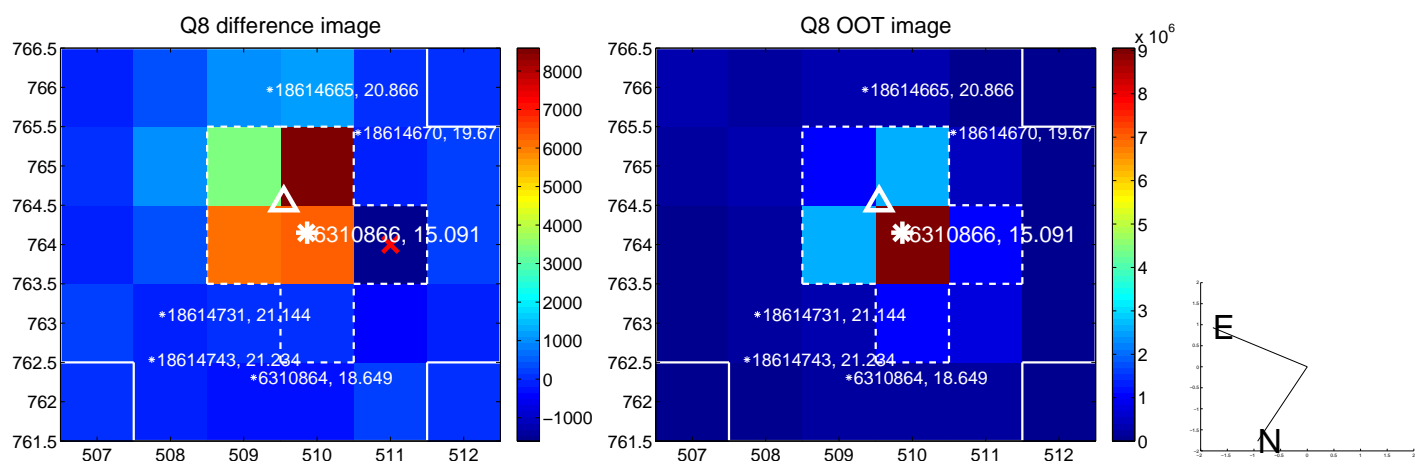
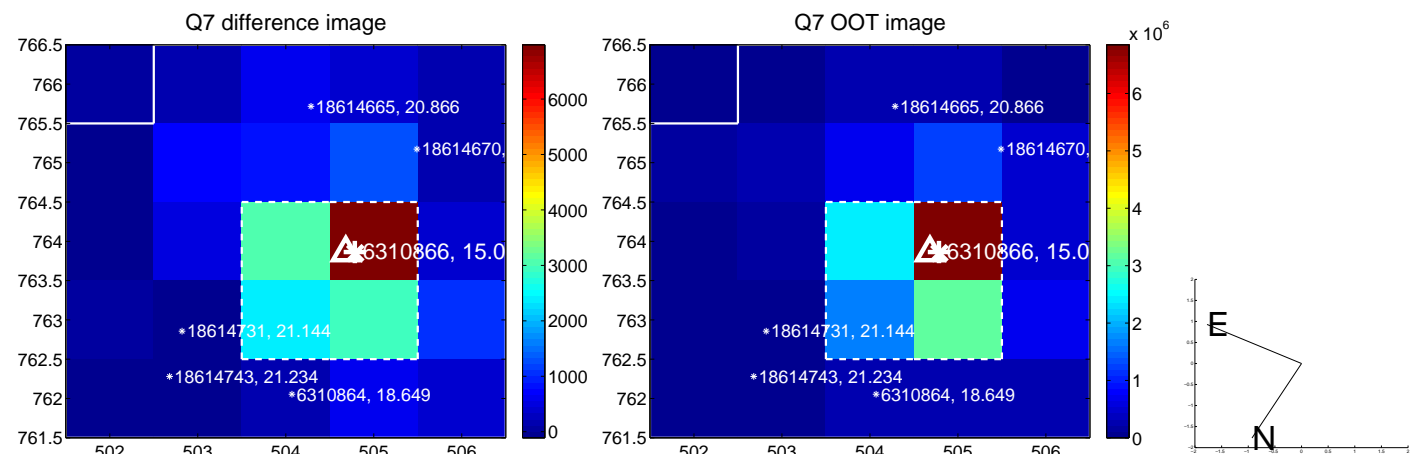
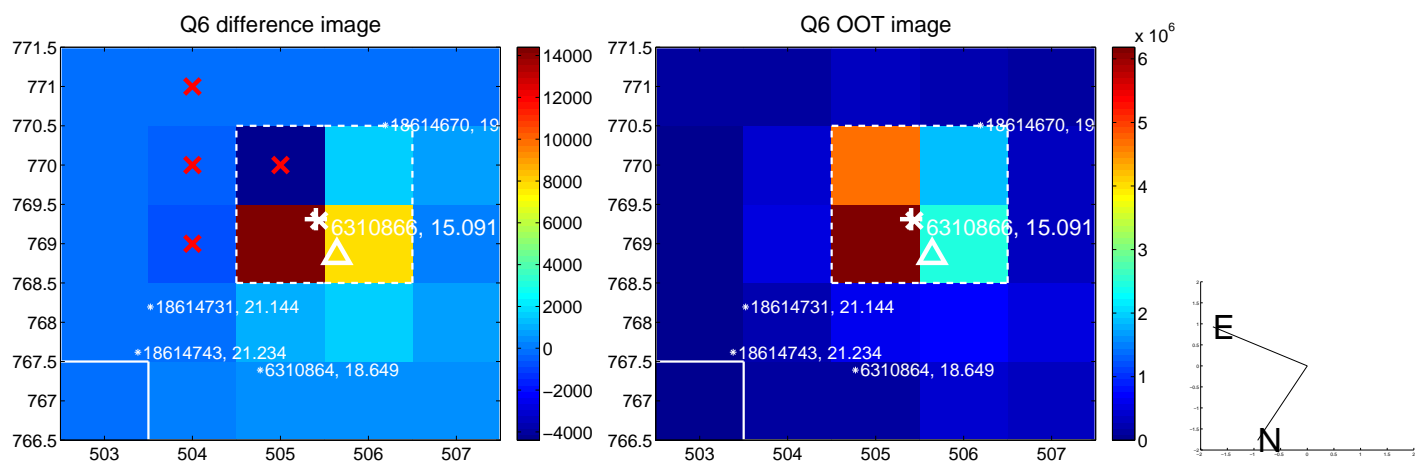
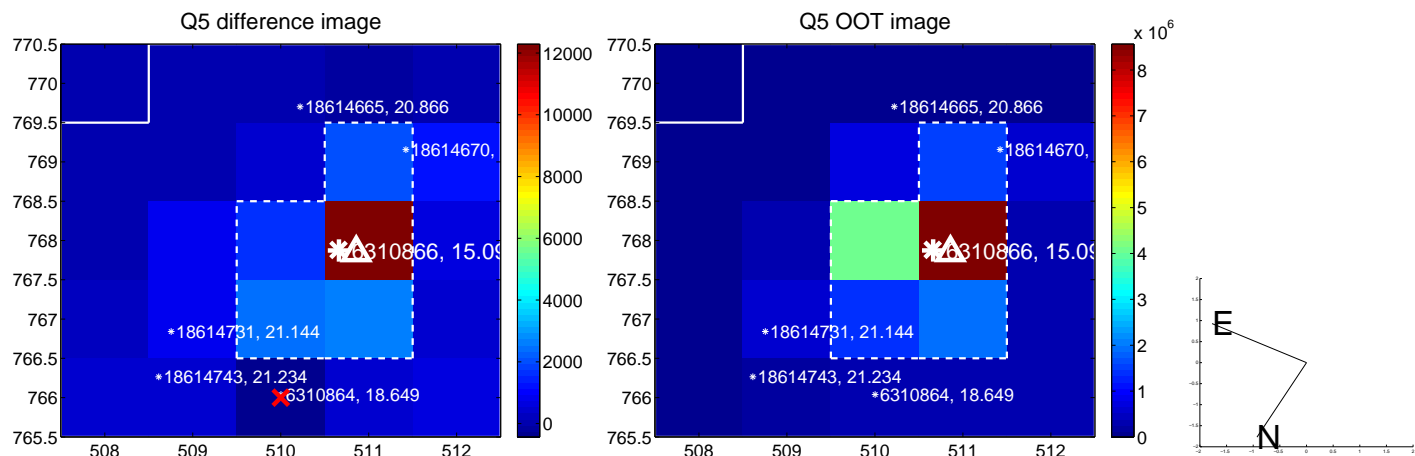


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

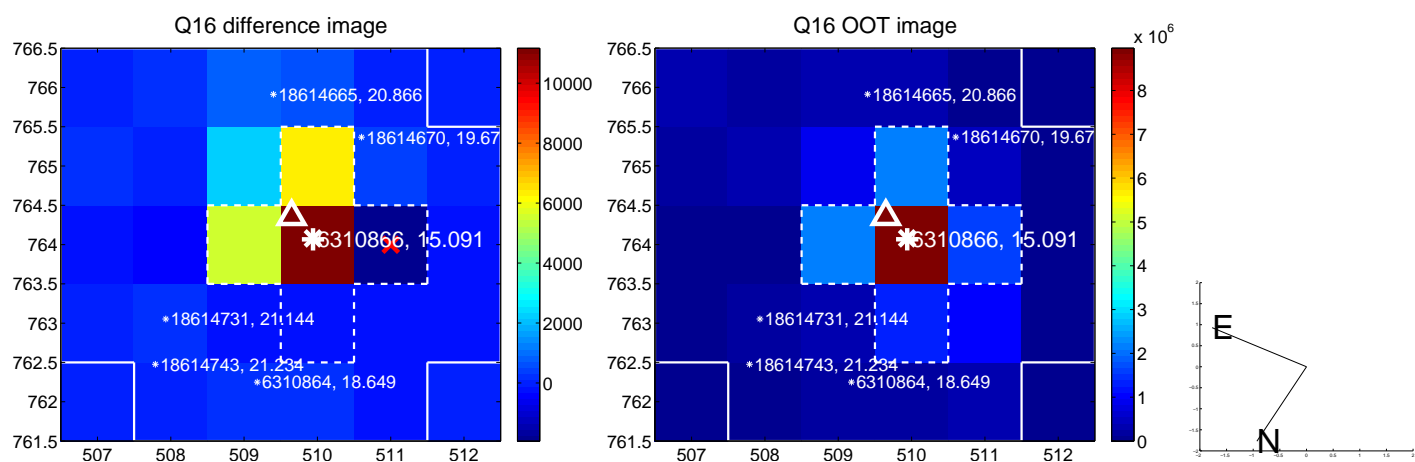
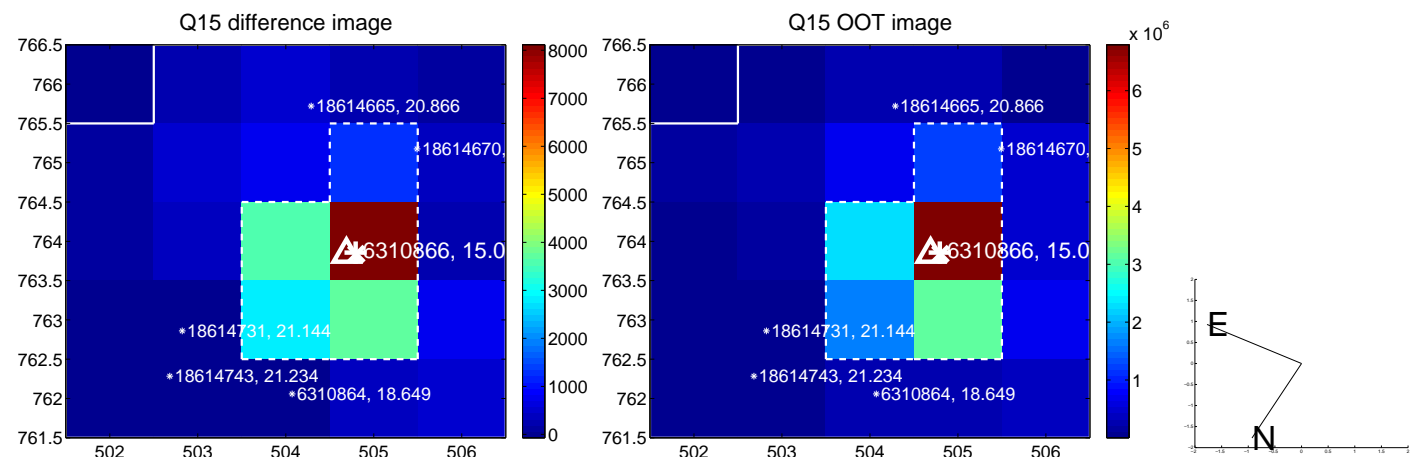
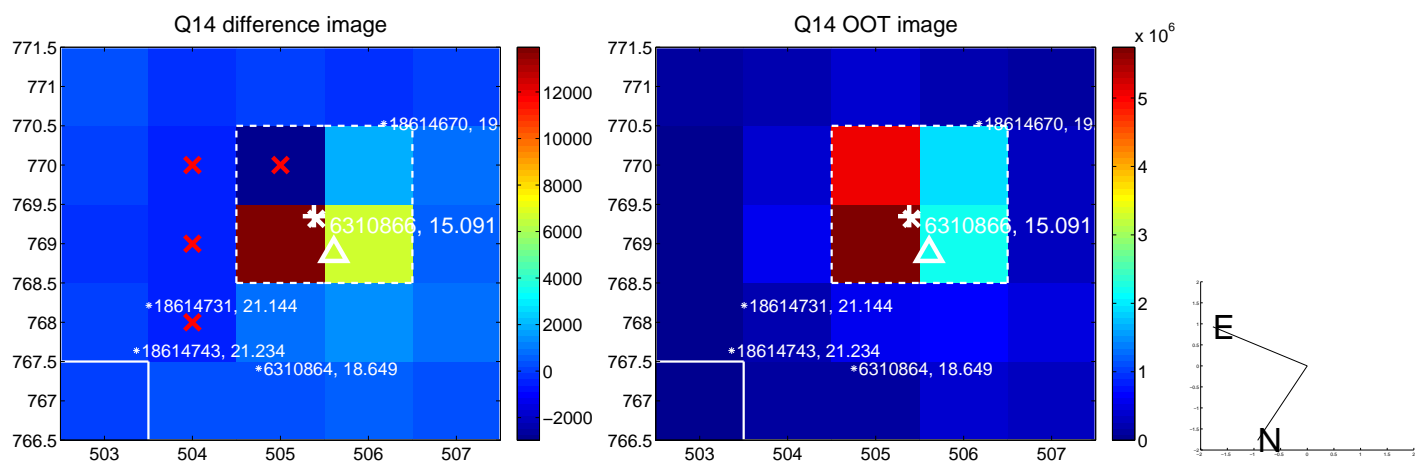
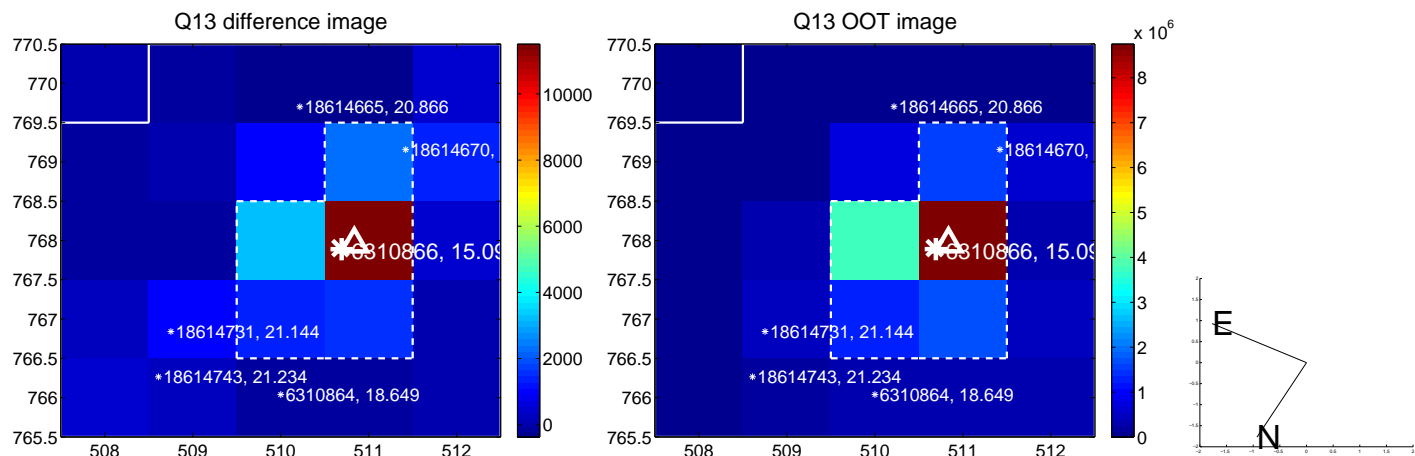
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



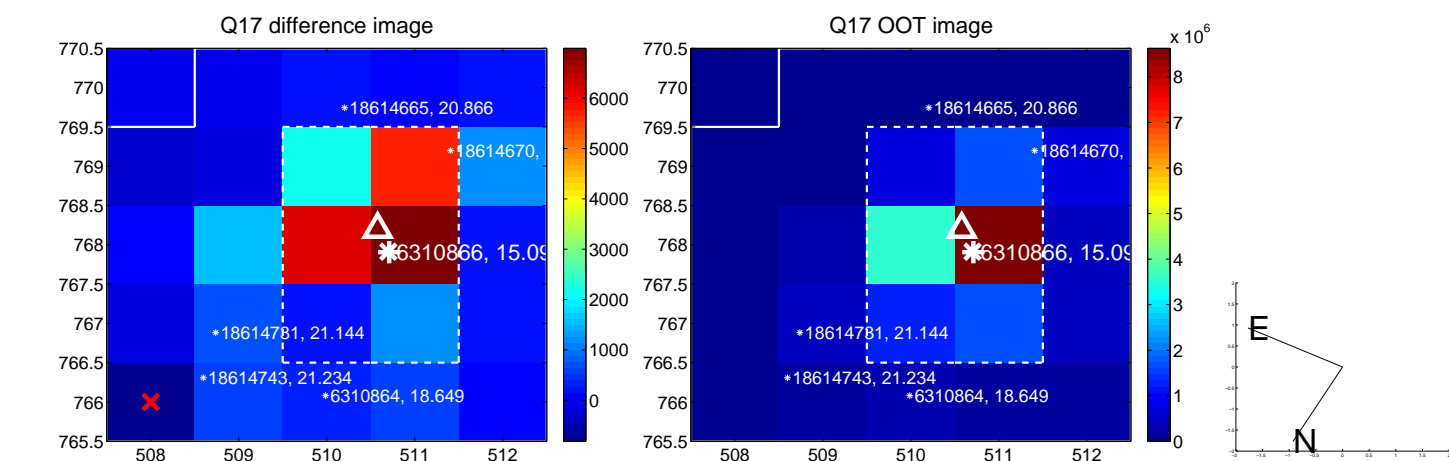
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



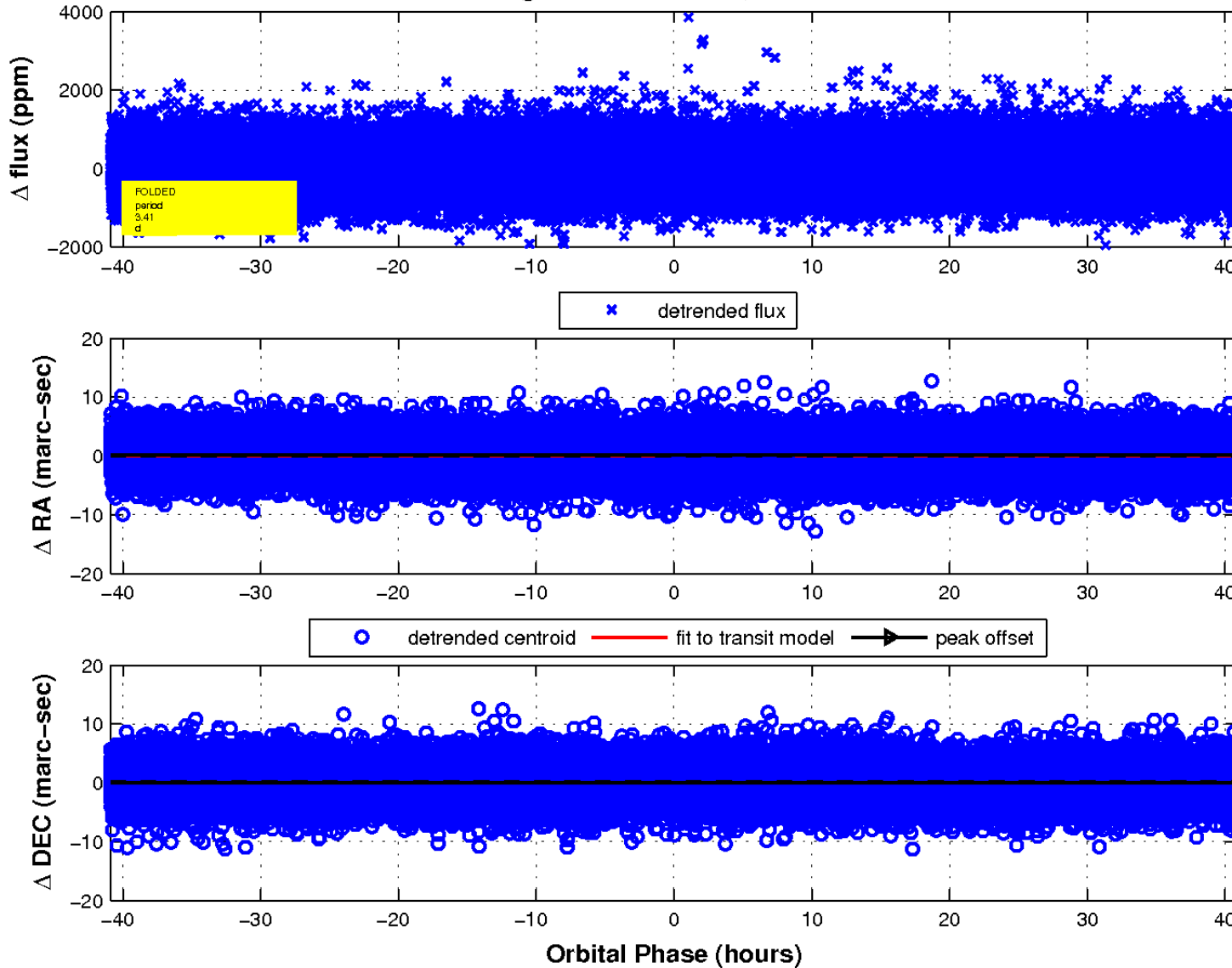
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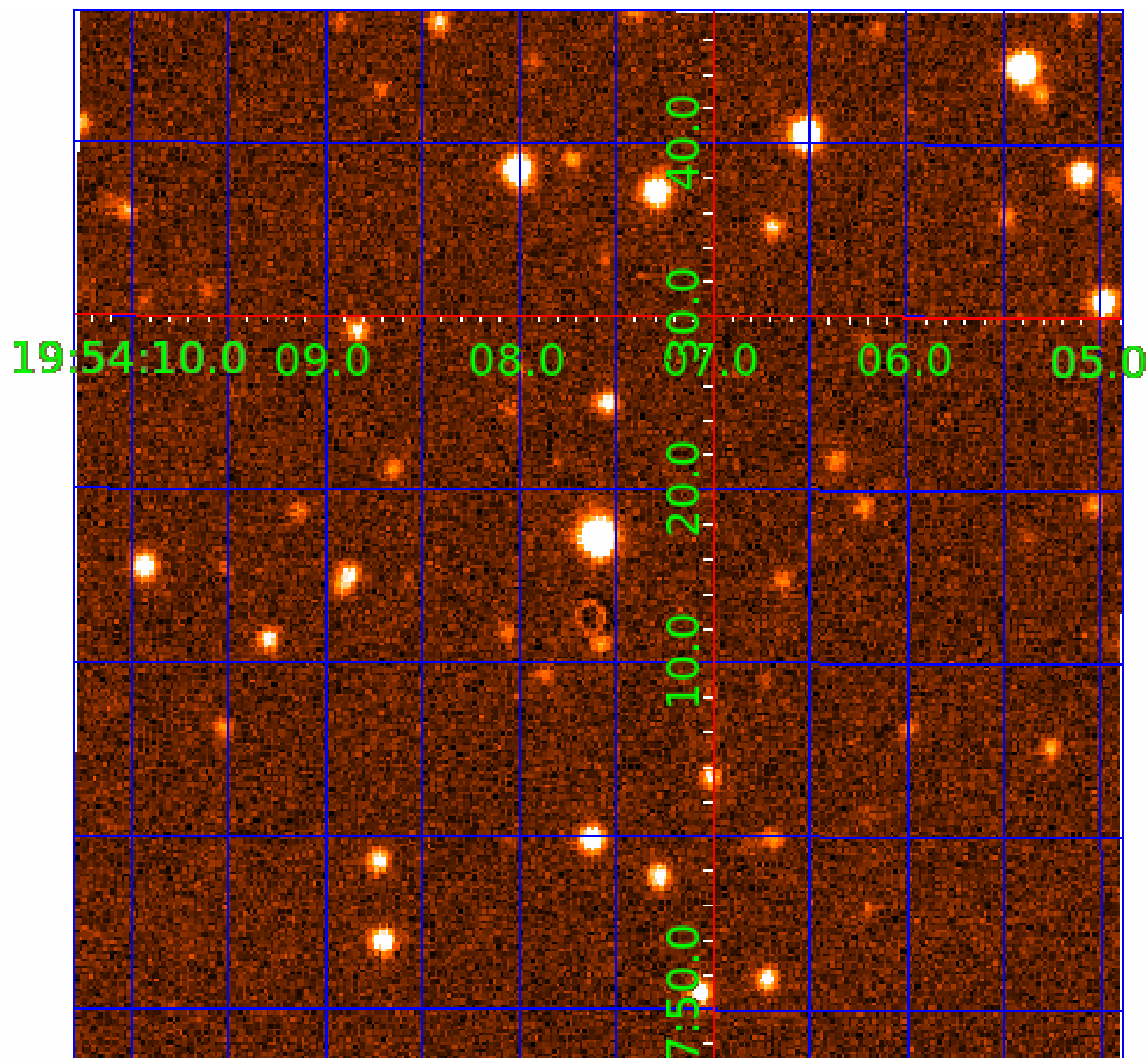


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 006310866

Q1-17 DR25 TCE Parameters

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006310866-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

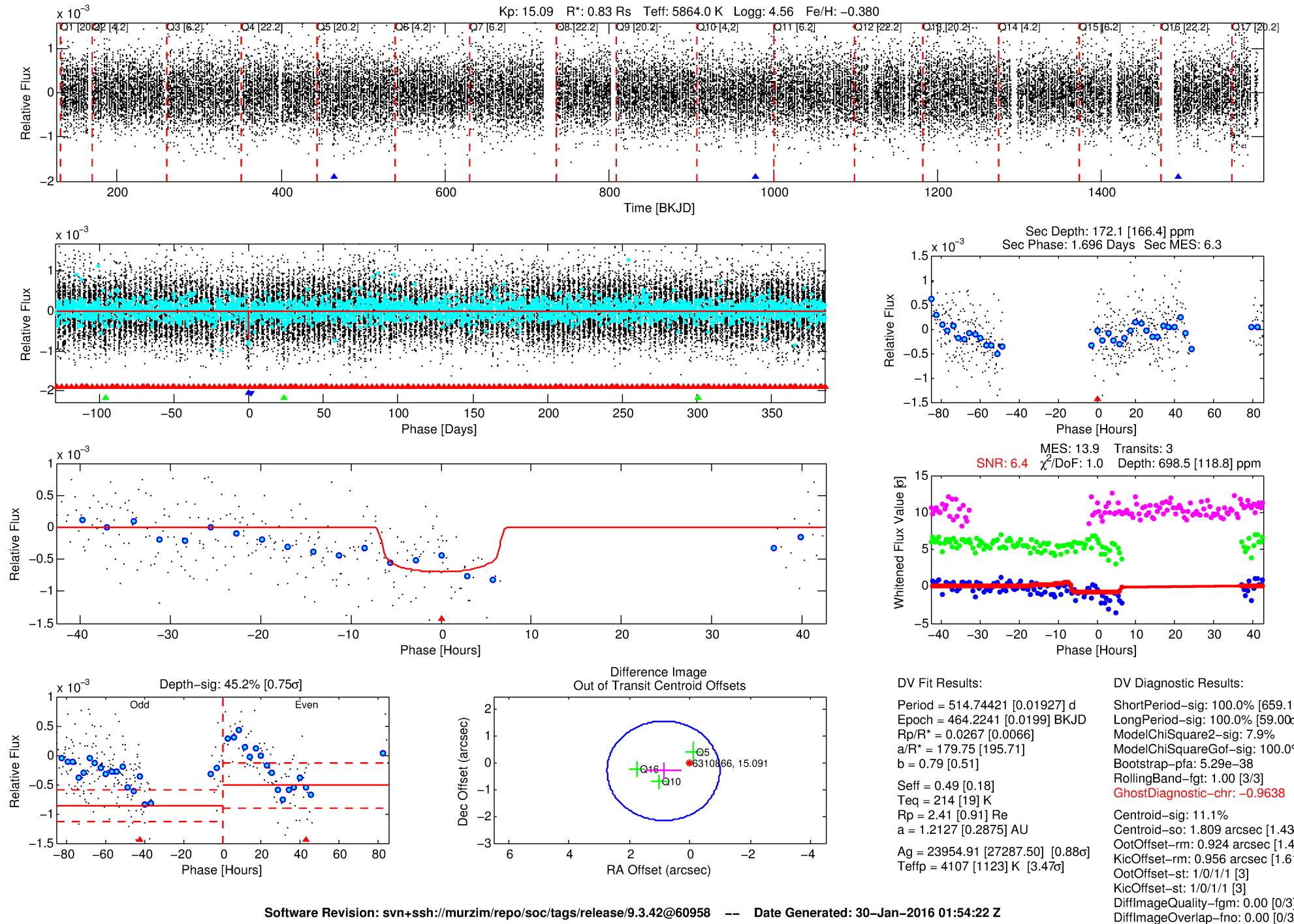
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006310866-02

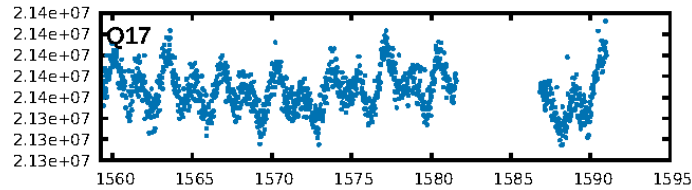
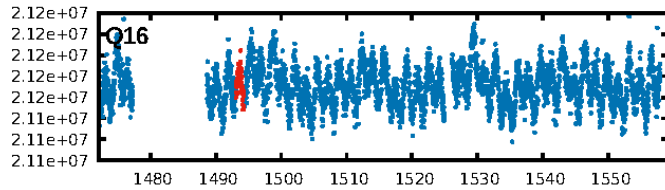
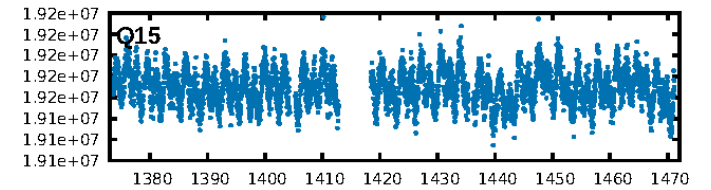
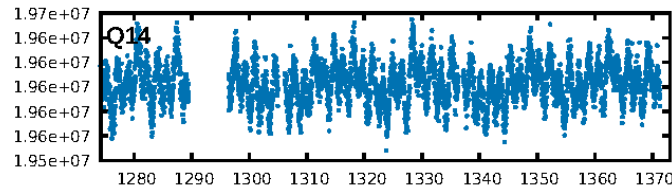
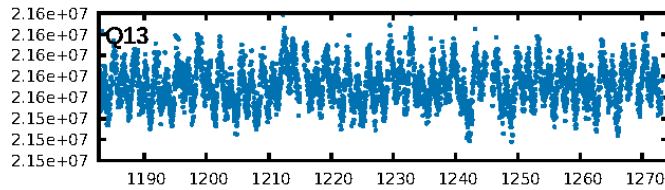
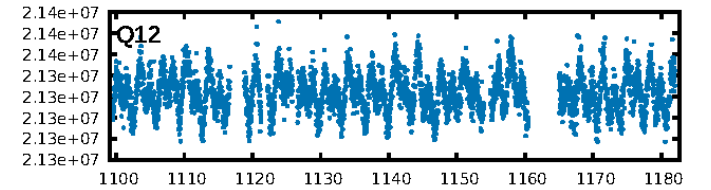
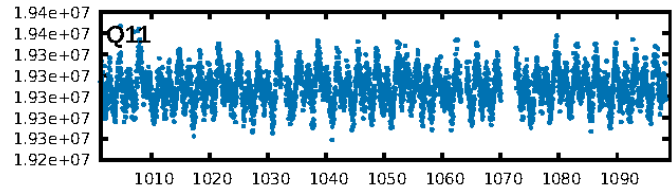
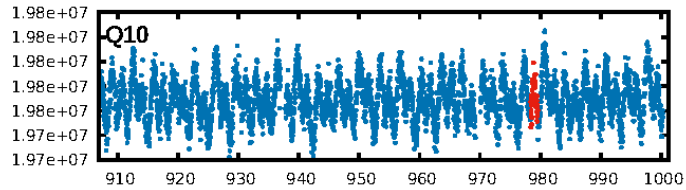
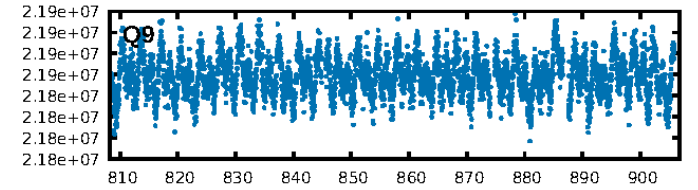
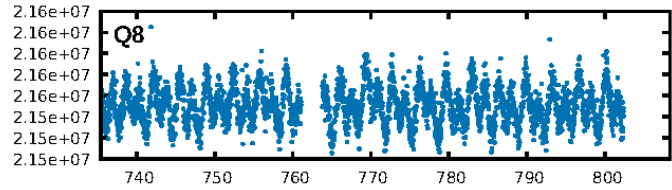
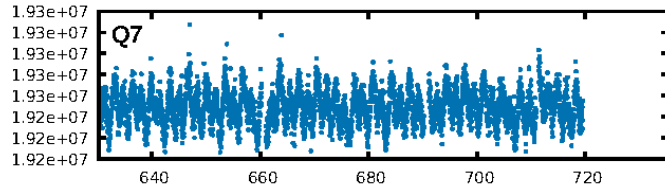
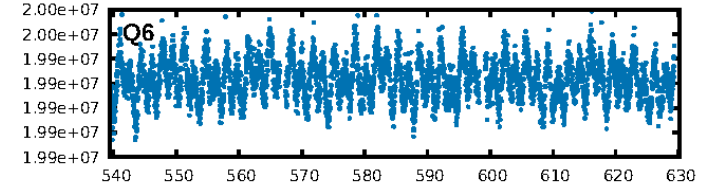
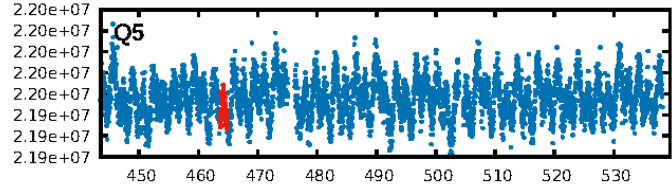
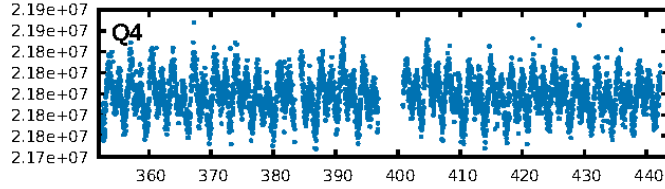
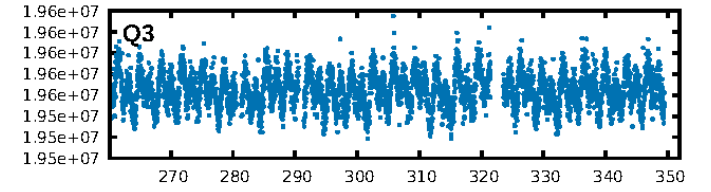
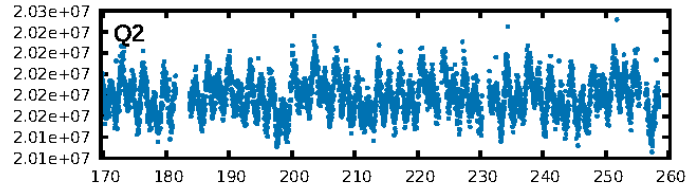
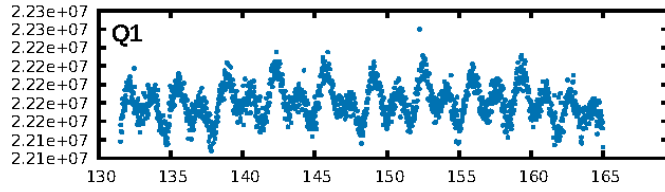
No Significant Match Found

DV One-Page Summary

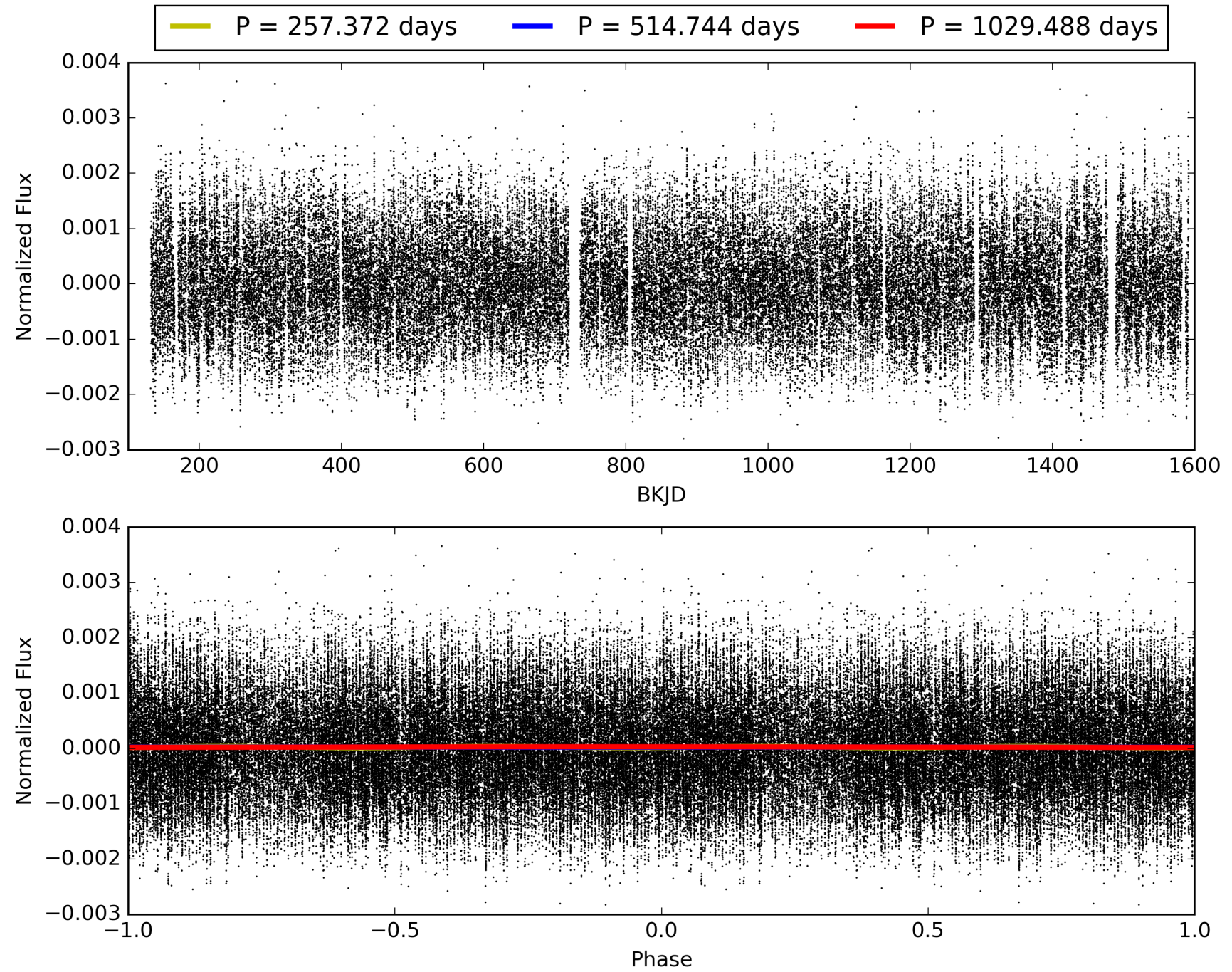
KIC: 6310866 Candidate: 2 of 3 Period: 514.744 d



TCE 006310866-02, PDC Light Curves

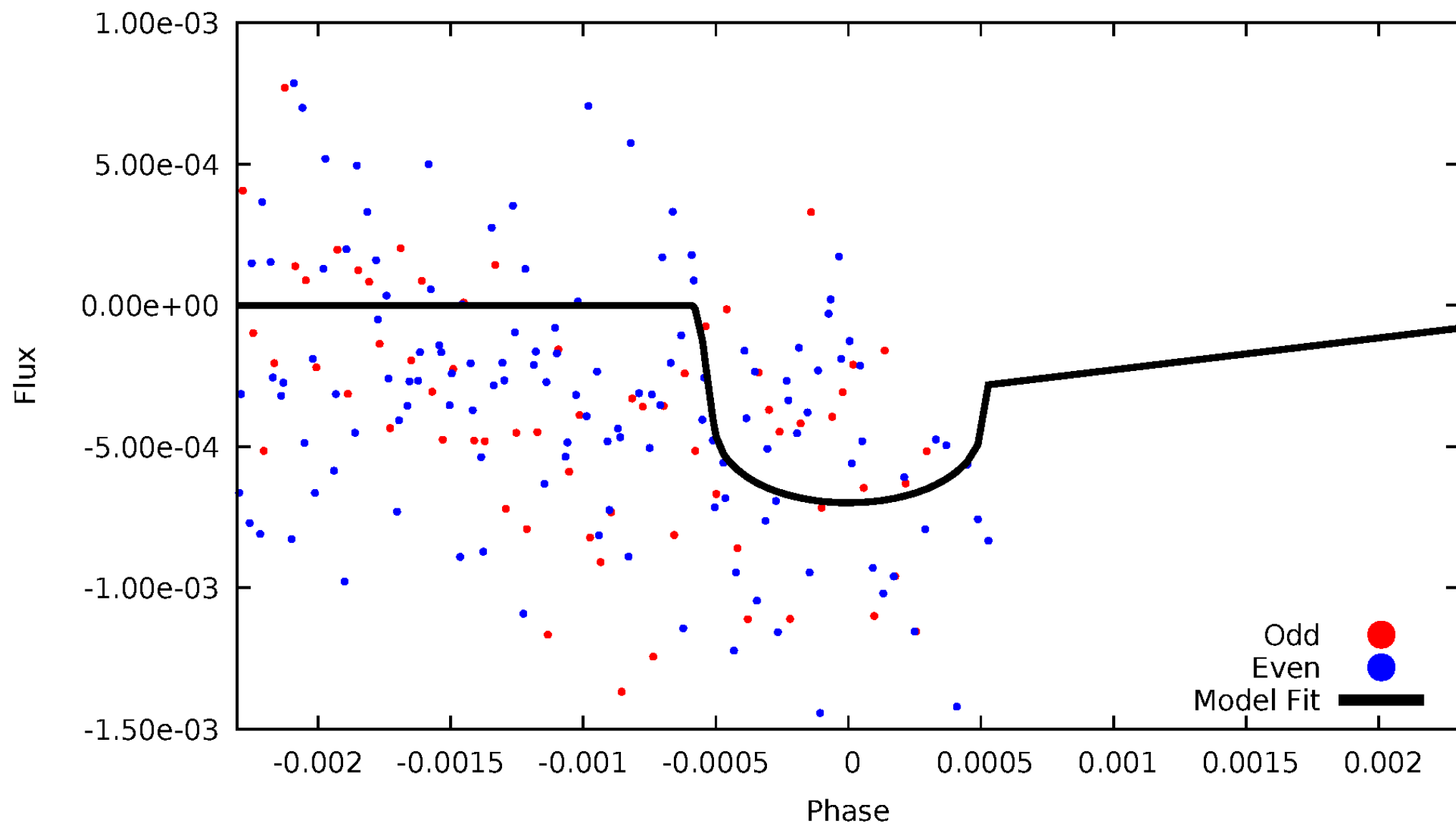


TCE 006310866-02



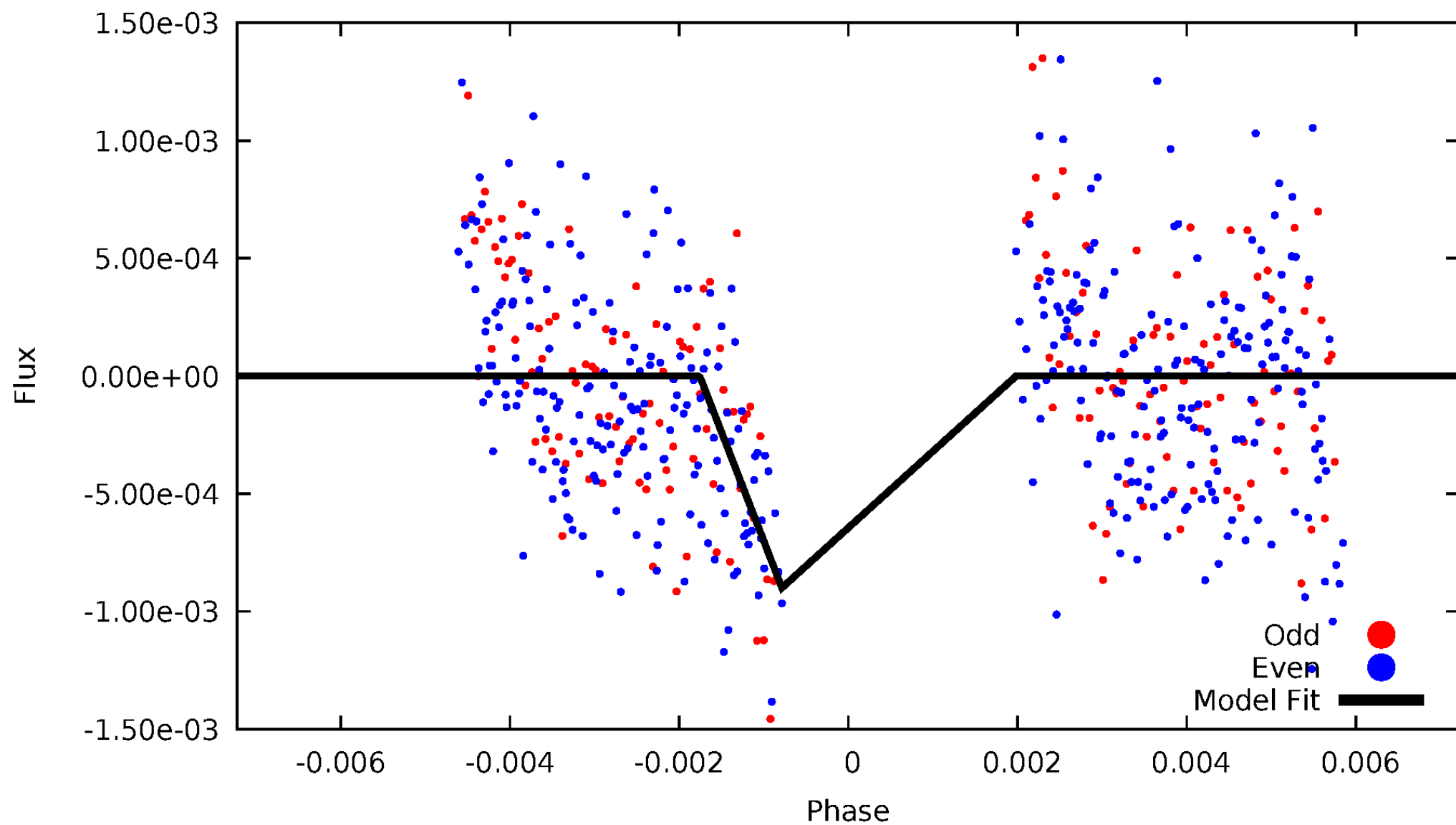
DV Odd/Even

TCE 006310866-02



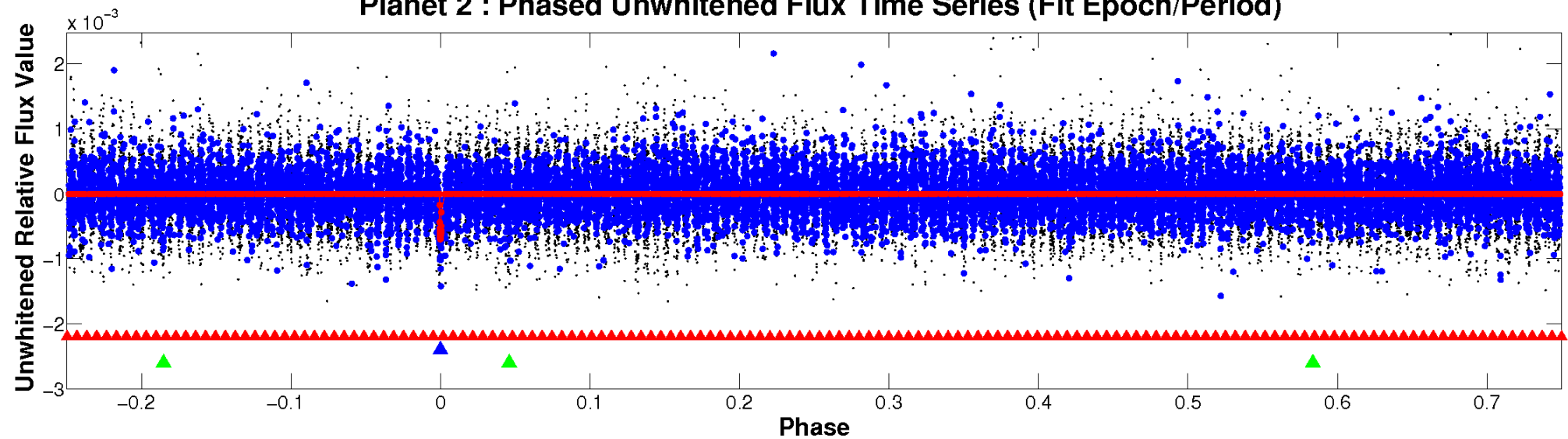
ALT Odd/Even

TCE 006310866-02

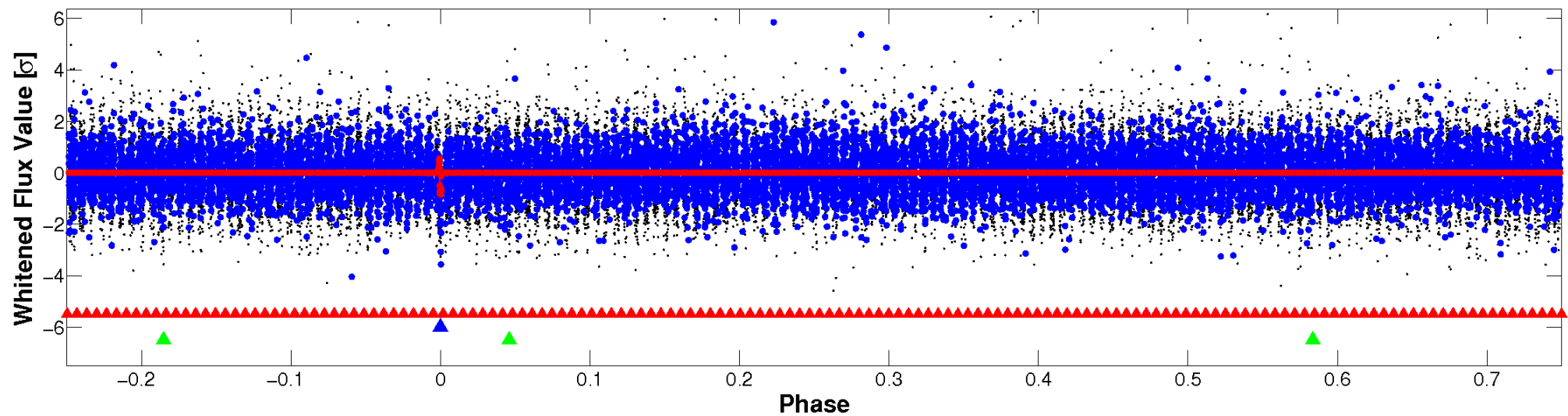


Non-Whitened Vs. Whitened Light Curve

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

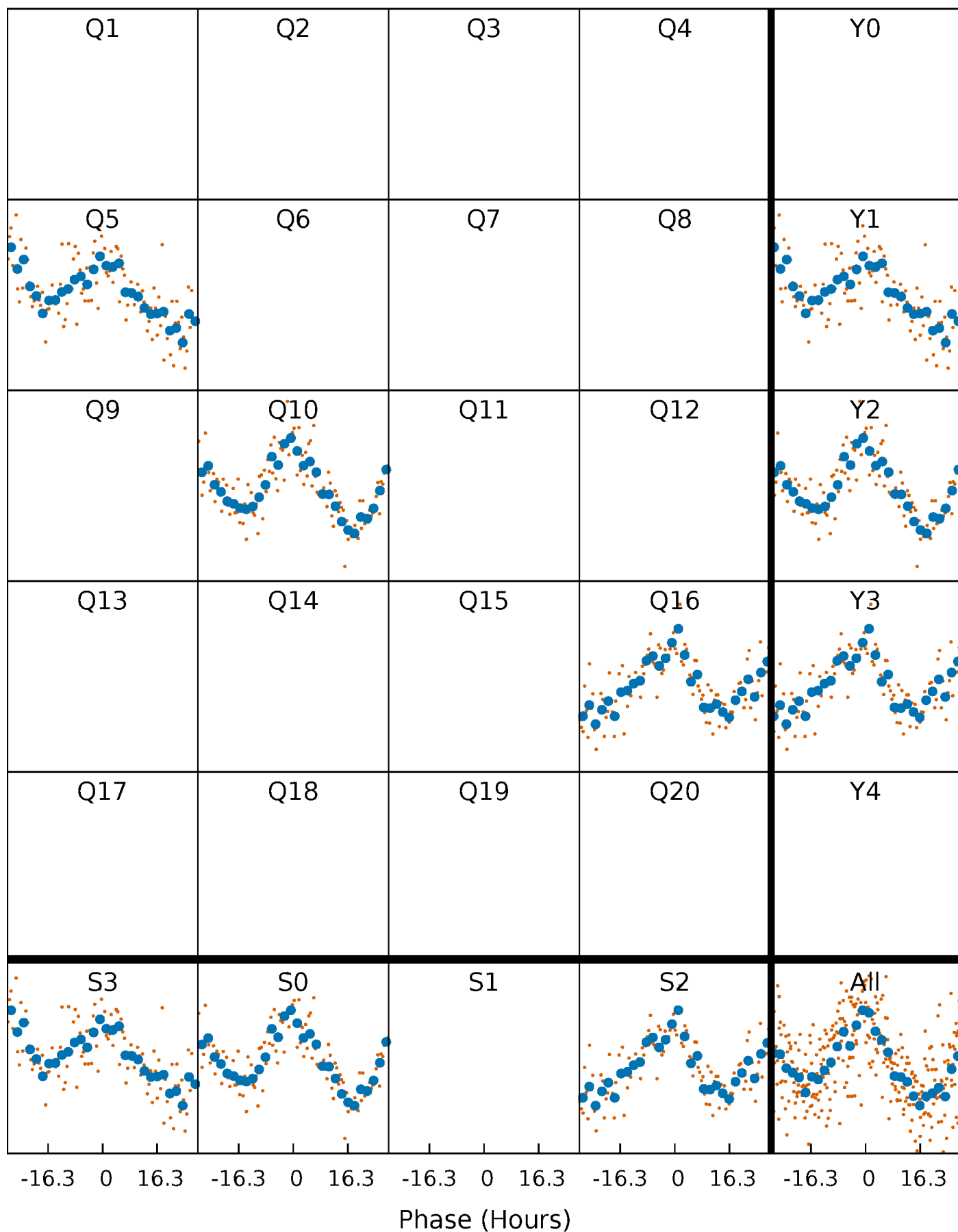


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



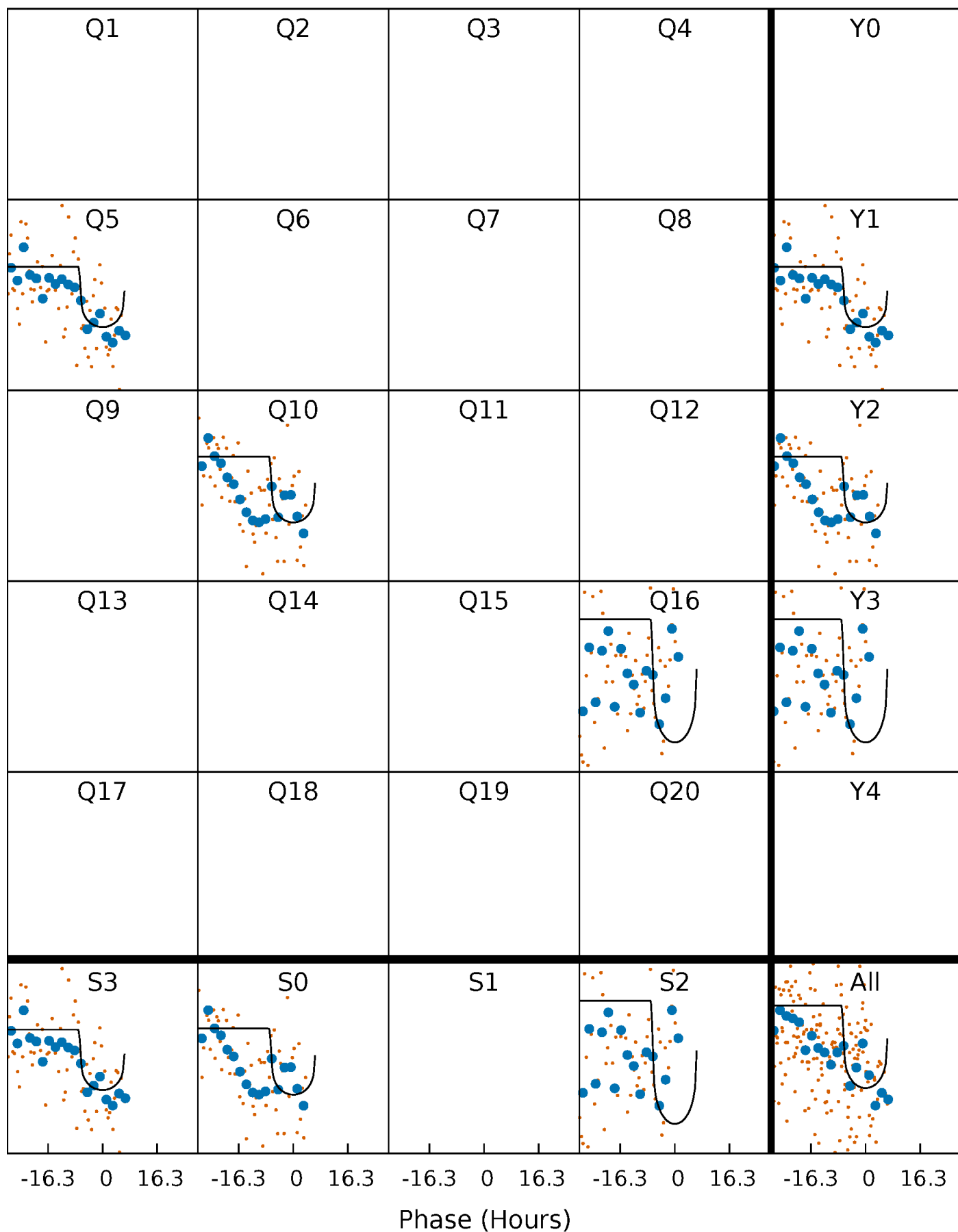
PDC Quarter-Phased Transit Curves

TCE 006310866-02 P=514.744213 Days $T_0=464.224093$ (BKJD)



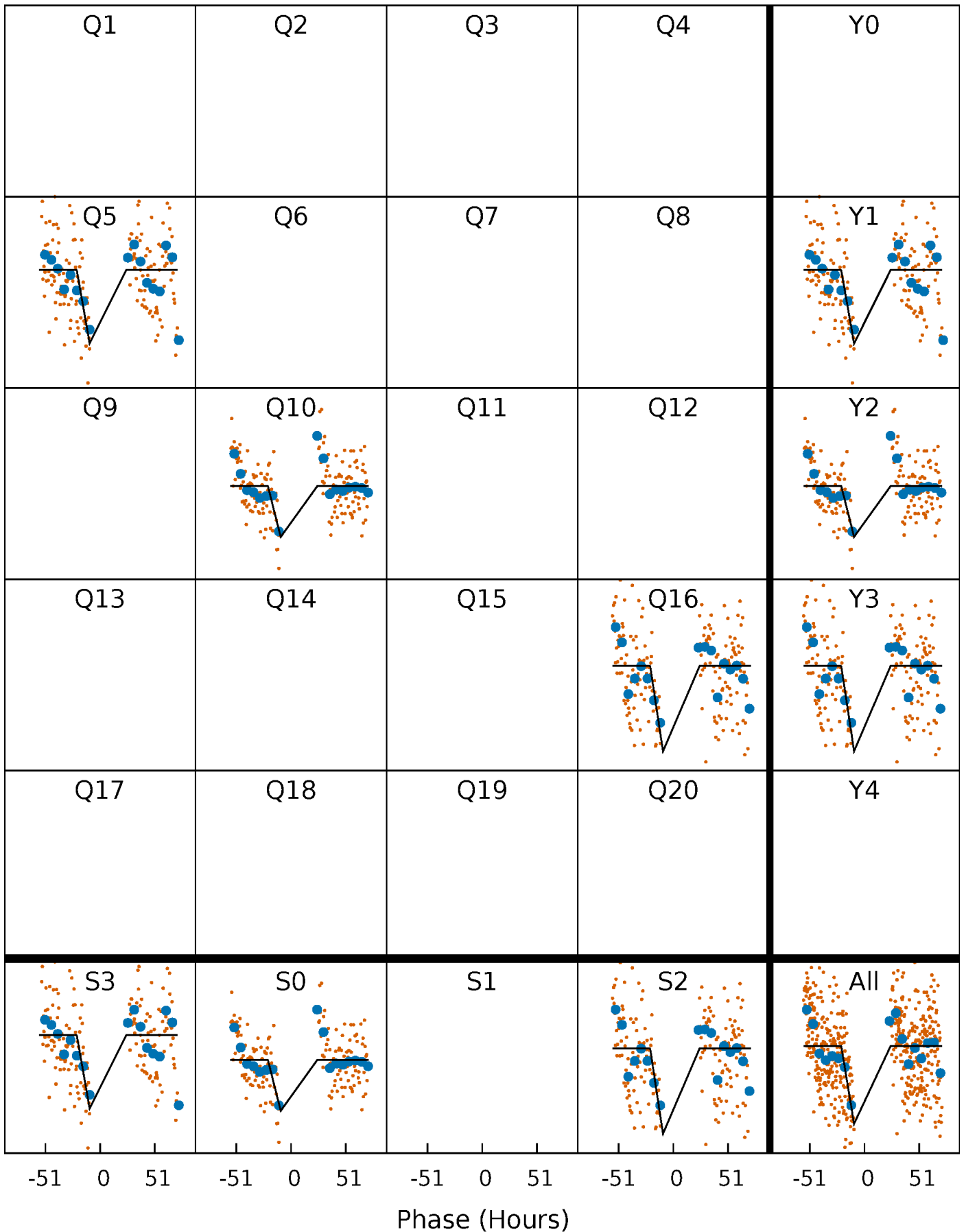
DV Quarter-Phased Transit Curves

TCE 006310866-02 $P=514.744213$ Days $T_0=464.224093$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

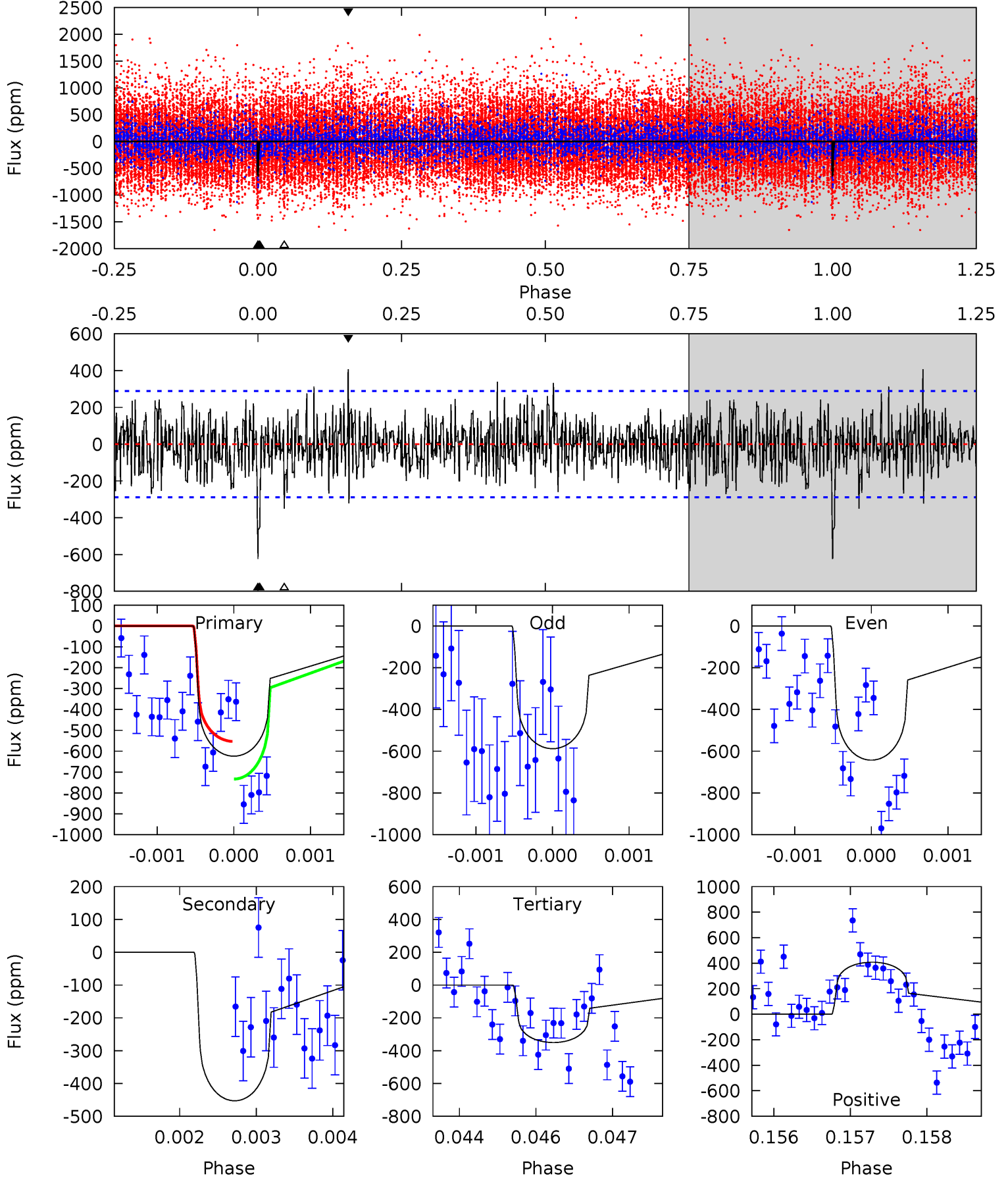
TCE 006310866-02 P=514.673698 Days $T_0=464.899929$ (BKJD)



DV Model-Shift Uniqueness Test

006310866-02, P = 514.744213 Days, E = 464.224093 Days

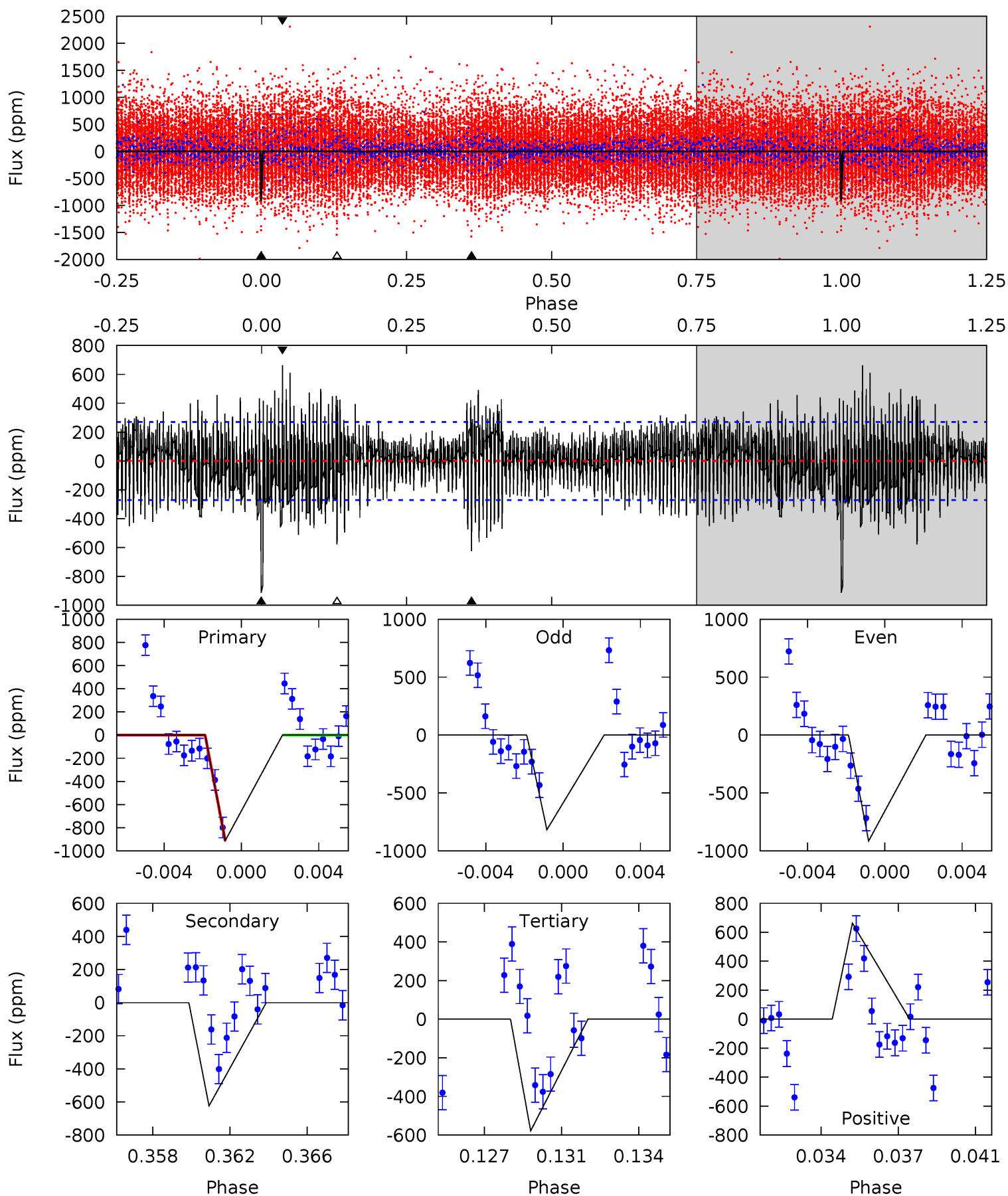
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.7	8.51	6.59	7.66	5.43	3.26	1.85	5.14	4.06	1.92	0.85	0.49	1.00	0.40	1.61



Alt Model-Shift Uniqueness Test

006310866-02, P = 514.673698 Days, E = 464.899929 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.6	12.0	11.1	12.8	5.21	2.90	3.17	6.43	4.81	0.87	-0.75	0.88	0	0.42	0



Stellar Parameters For KIC 006310866

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5864^{+158}_{-175}	$4.557^{+0.046}_{-0.184}$	$-0.380^{+0.300}_{-0.300}$	$0.826^{+0.236}_{-0.079}$	$0.898^{+0.099}_{-0.109}$	$2.241^{+0.531}_{-1.105}$
	+3%/-3%	+1%/-4%	+79%/-79%	+29%/-10%	+11%/-12%	+24%/-49%
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 006310866-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-453 ± 53	$2.57^{+0.65}_{-0.64}$	304^{+19}_{-14}	5243^{+736}_{-521}	54281^{+44615}_{-20724}
Alt.	-623 ± 52	$3.69^{+0.75}_{-0.69}$	305^{+19}_{-14}	4815^{+406}_{-361}	36570^{+17940}_{-11470}

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

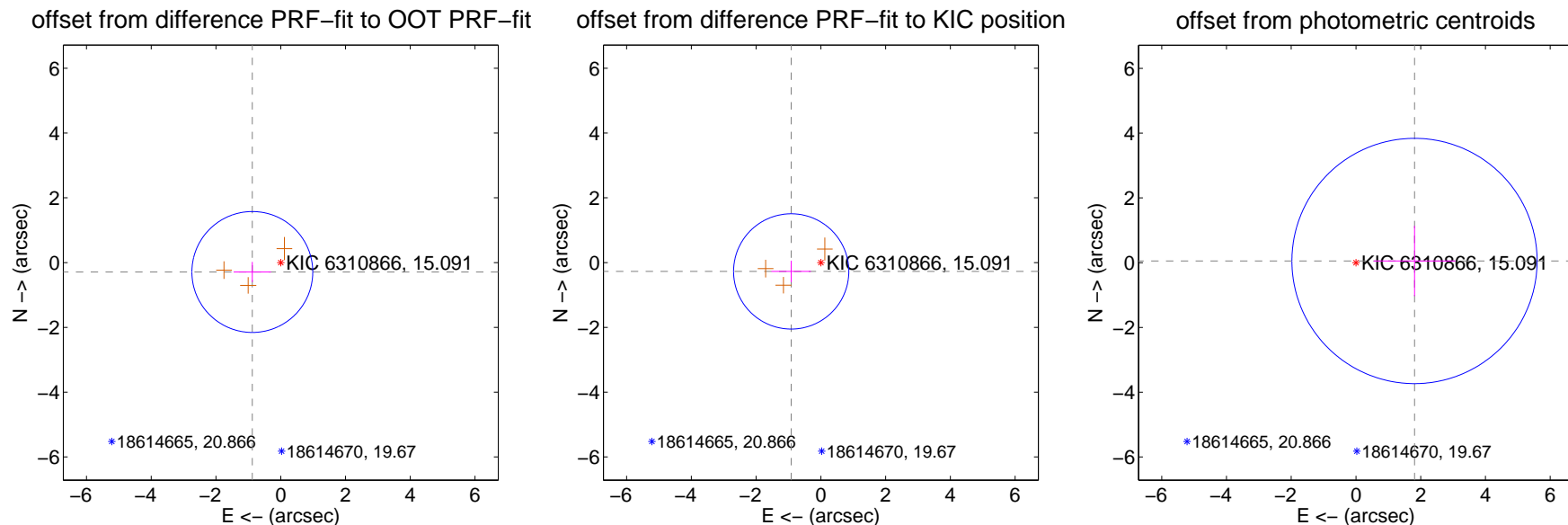
DV Centroid Data

Supplemental centroid analysis for 006310866-02. Kepler magnitude: 15.09. Transit SNR 6.43

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.924 ± 0.622	1.49	0.878 ± 0.577	-0.290 ± 0.312
PRF-fit source offset from KIC position	0.956 ± 0.593	1.61	0.916 ± 0.611	-0.273 ± 0.331
photometric centroid source offset	1.81 ± 1.26	1.43	-1.81 ± 1.26	0.05 ± 1.09

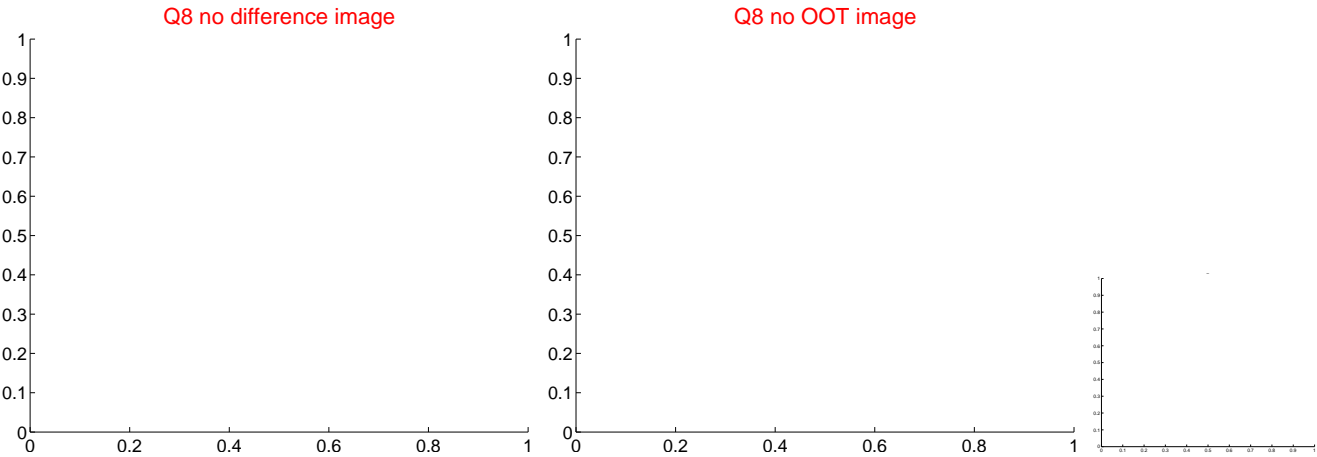
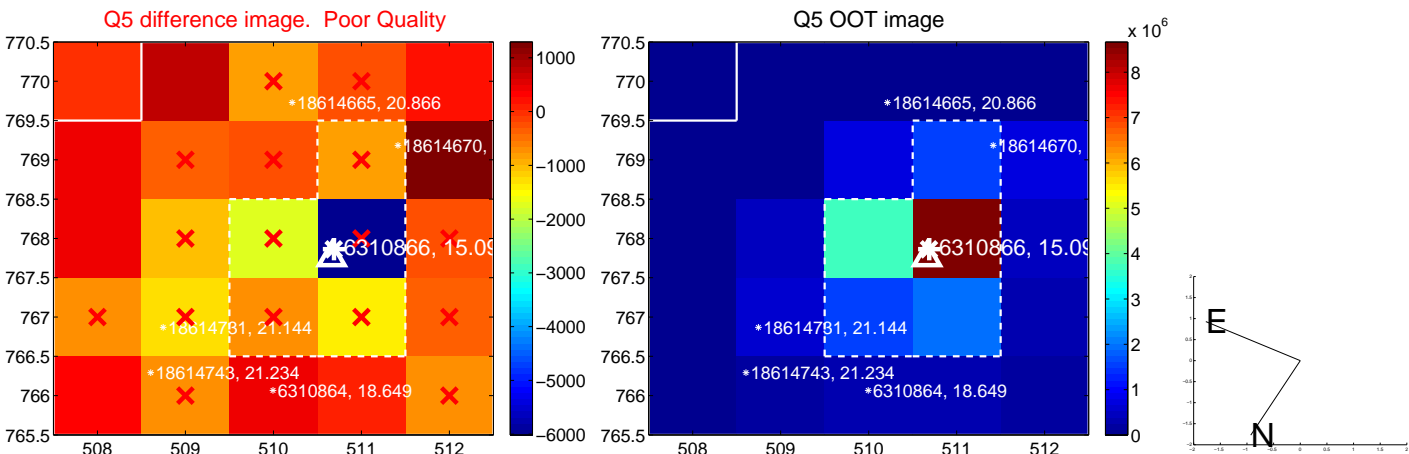


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

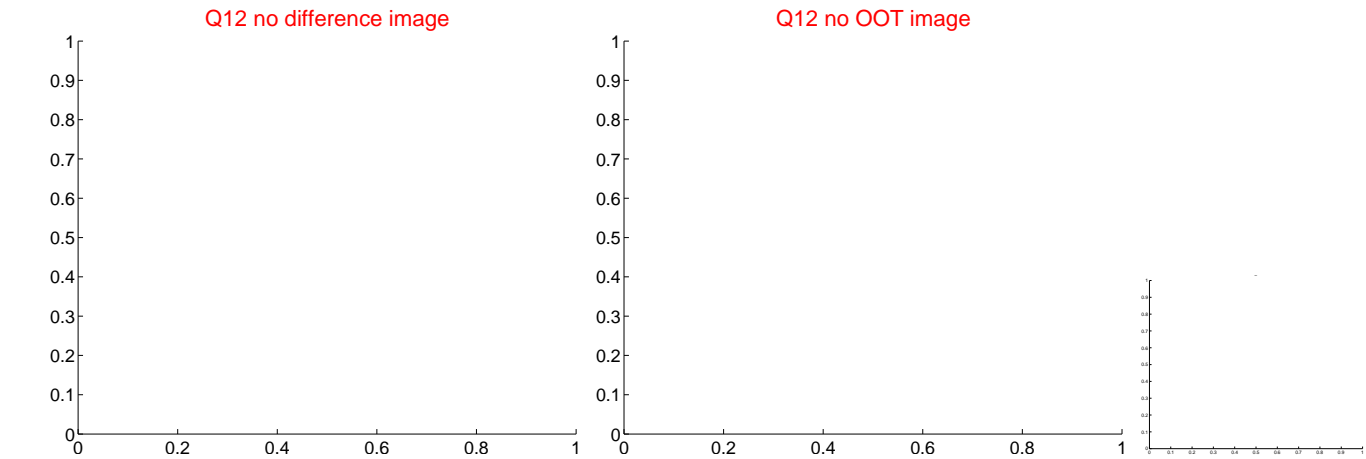
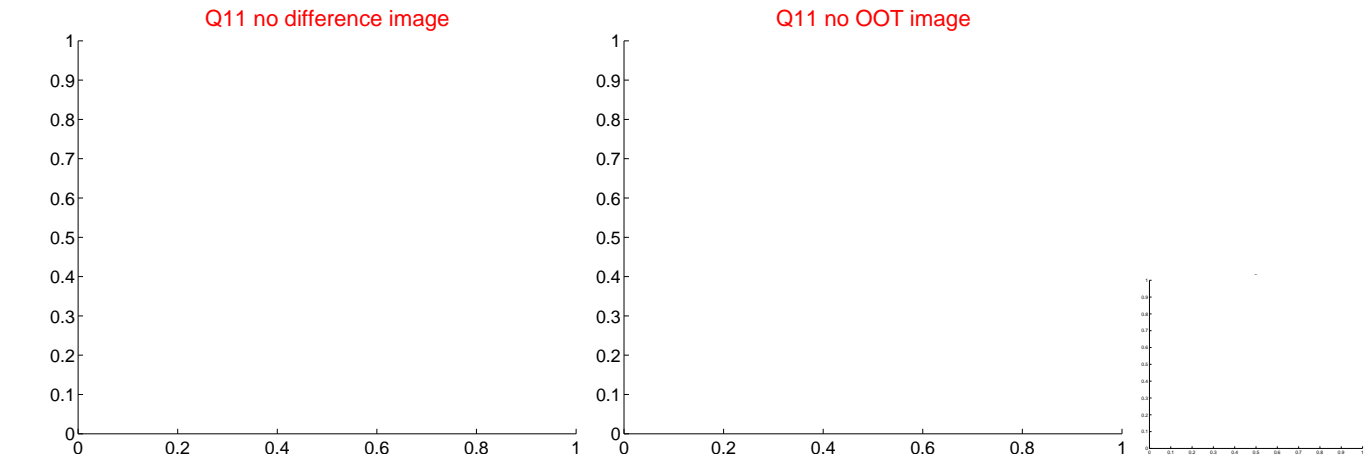
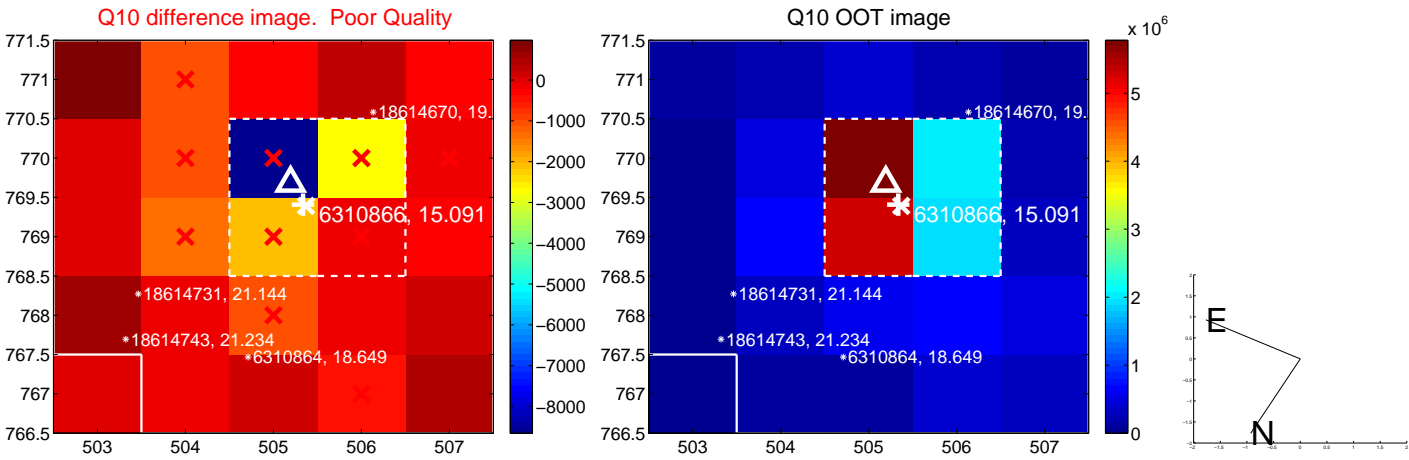
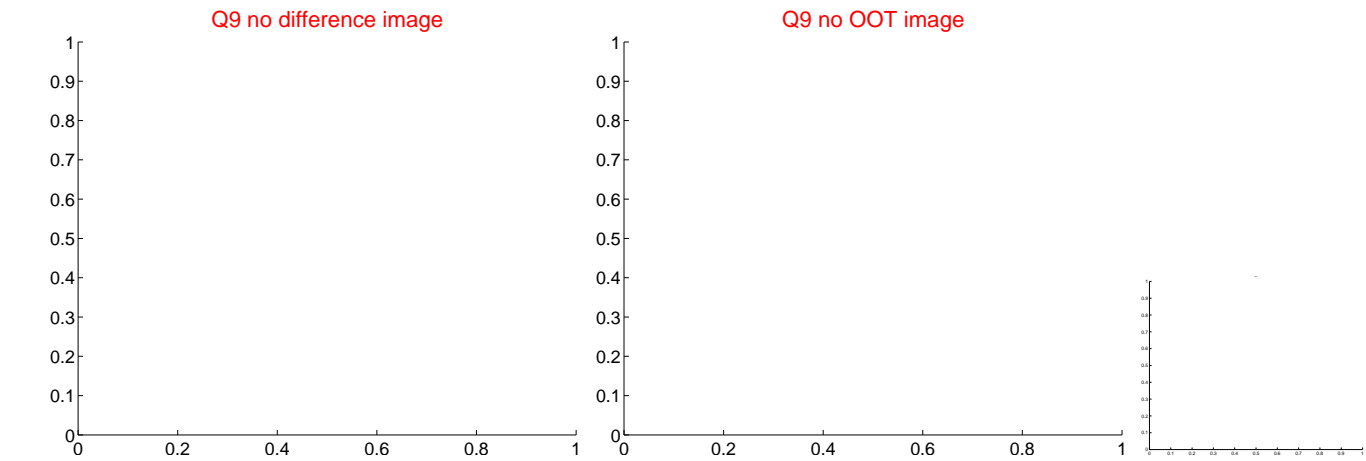
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



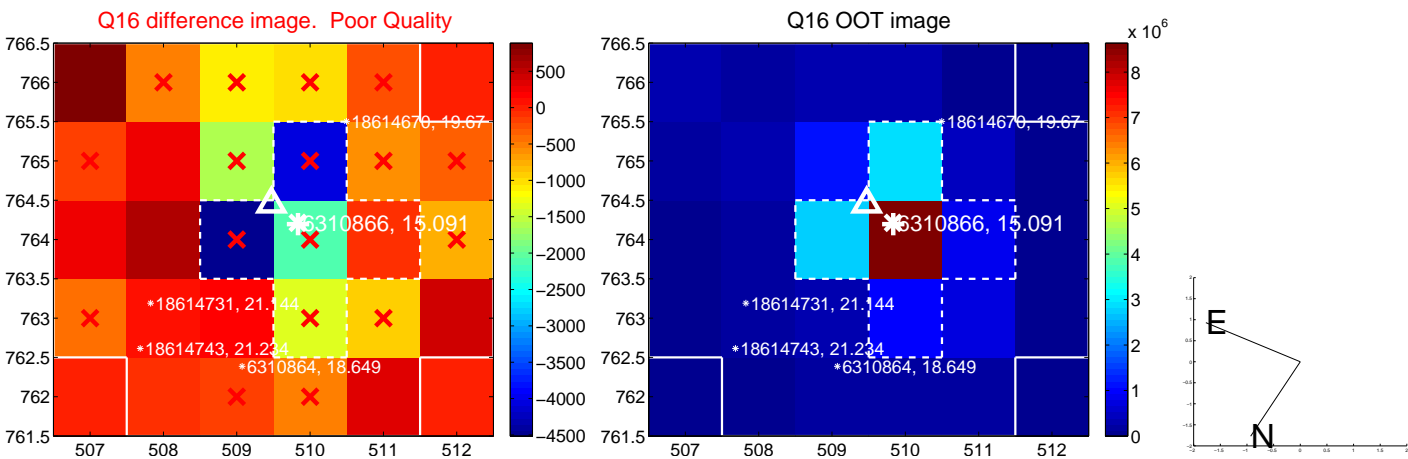
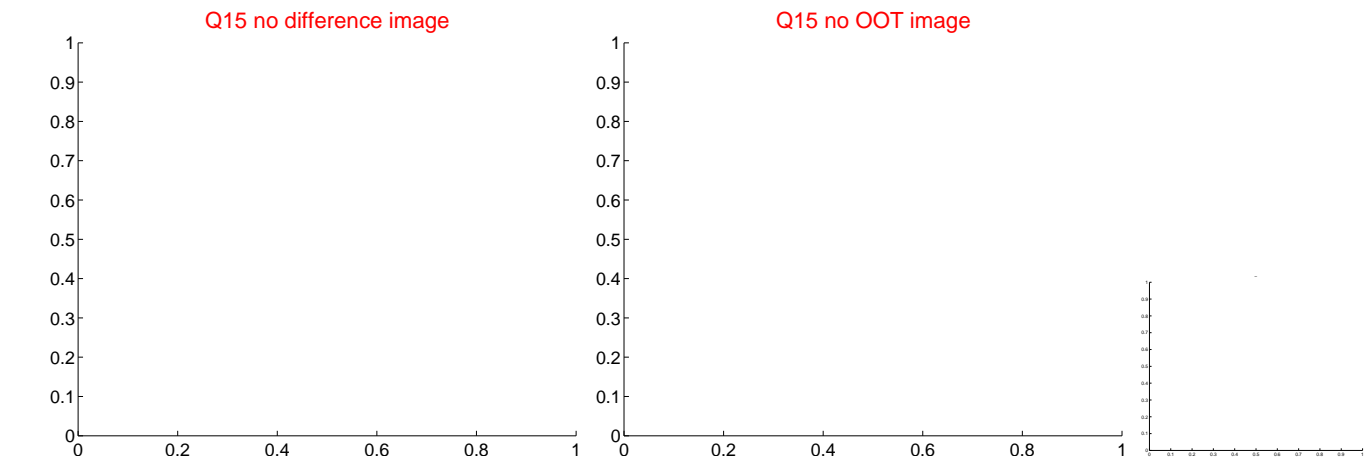
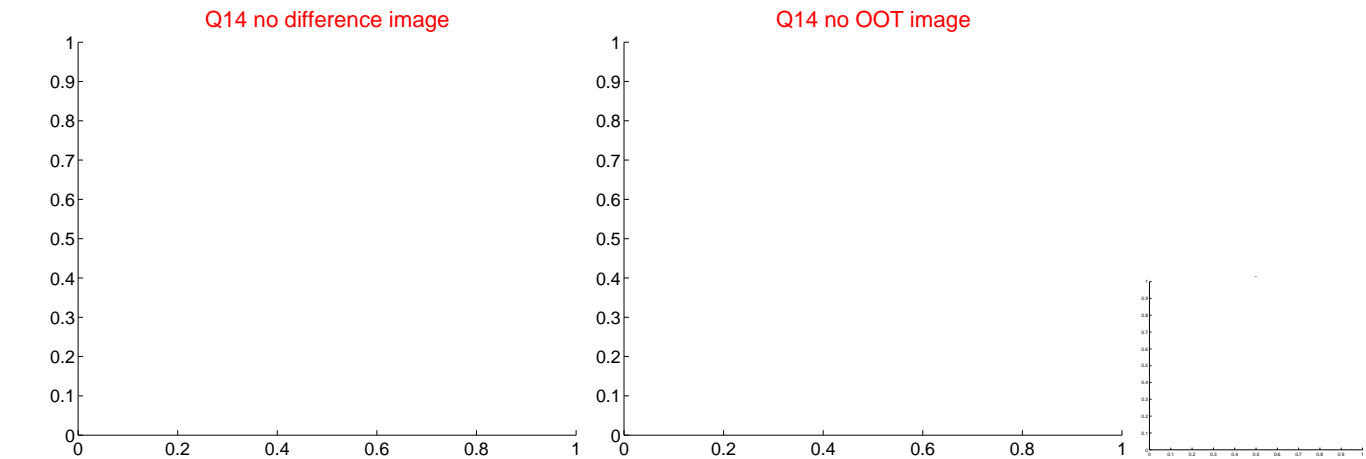
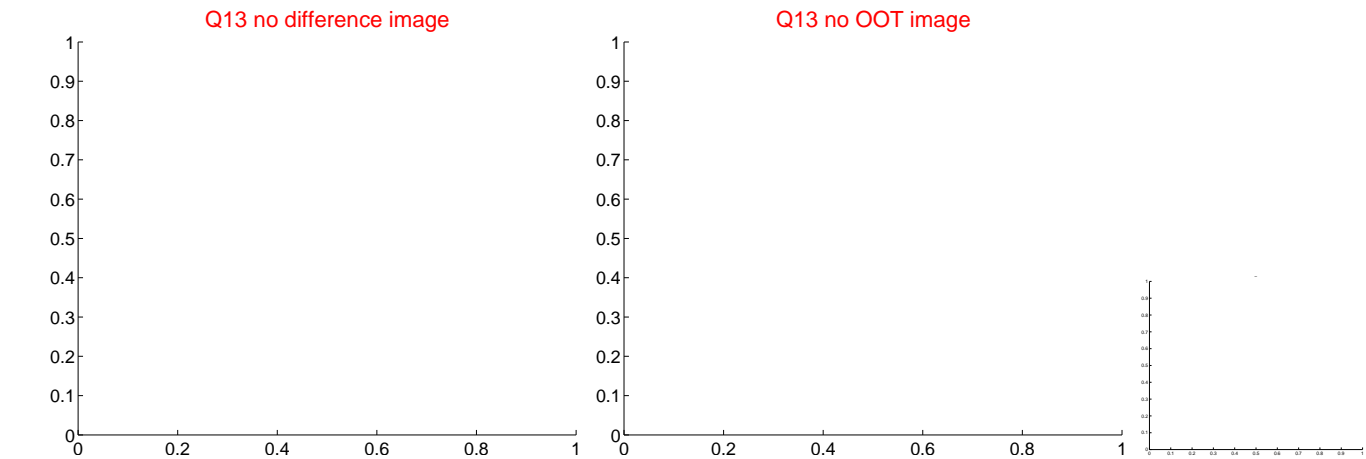
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



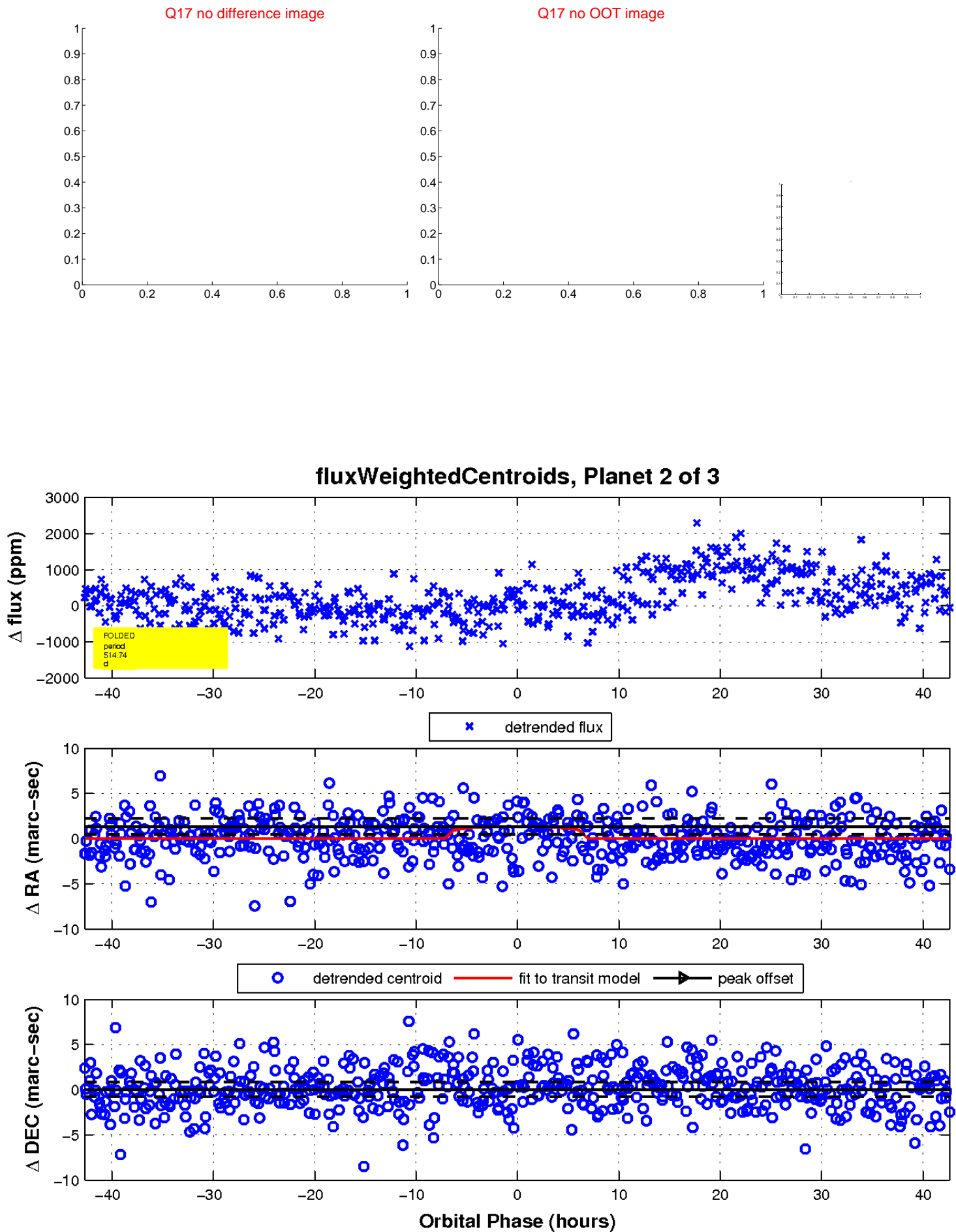
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



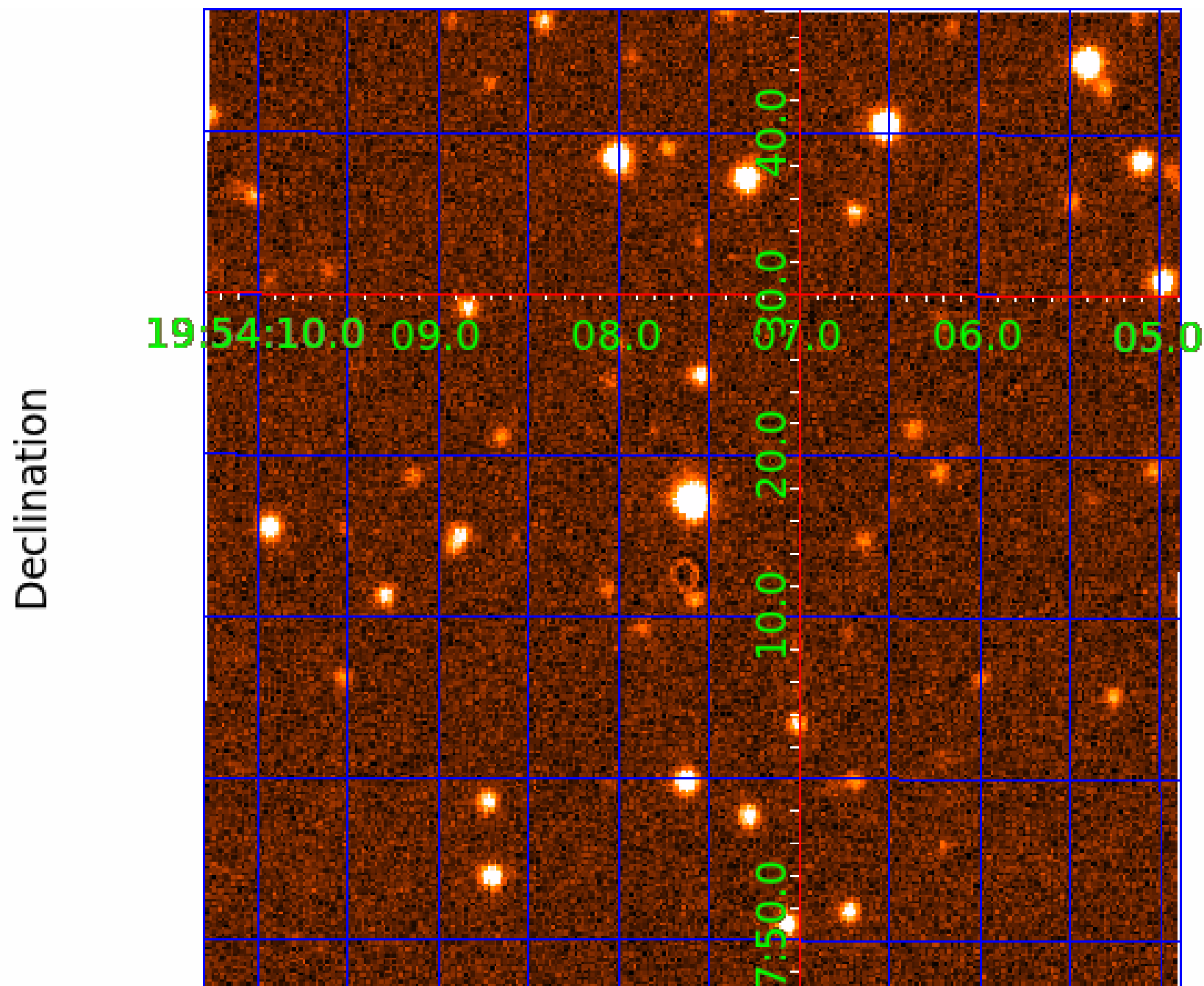
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 006310866

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})
006310866-01	OBS	No	3.408065	134.688412	248.4	12.000	7.7	-1.0	0.83	5864	1.30	395.35
006310866-02	OBS	No	514.744213	464.224093	698.5	14.236	13.9	6.4	0.83	5864	2.41	0.49
006310866-03	OBS	No	633.769688	249.866000	1075.5	46.281	9.6	7.2	0.83	5864	5.20	0.37

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006310866-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS
006310866-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006310866-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

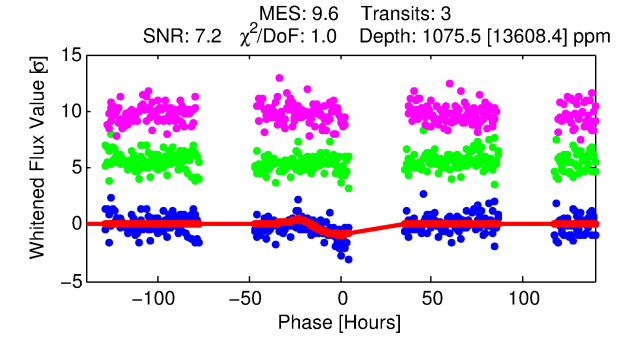
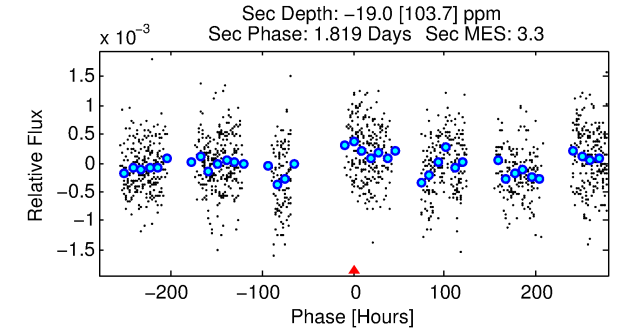
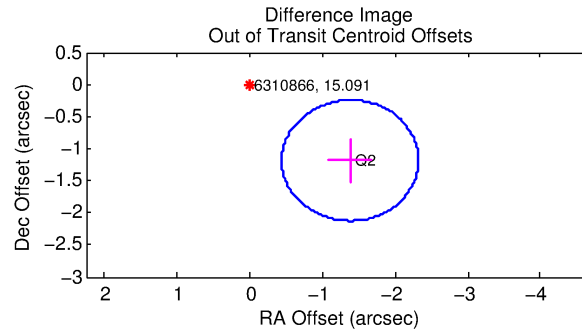
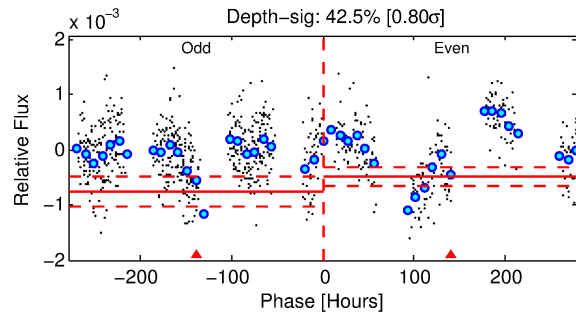
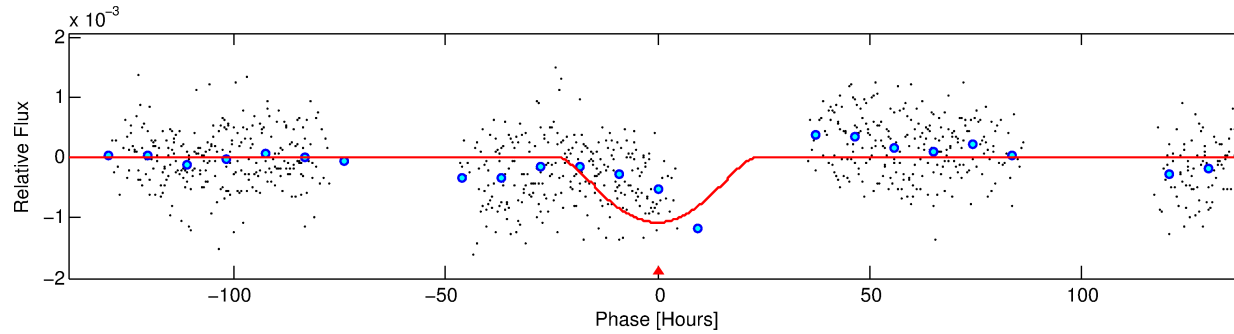
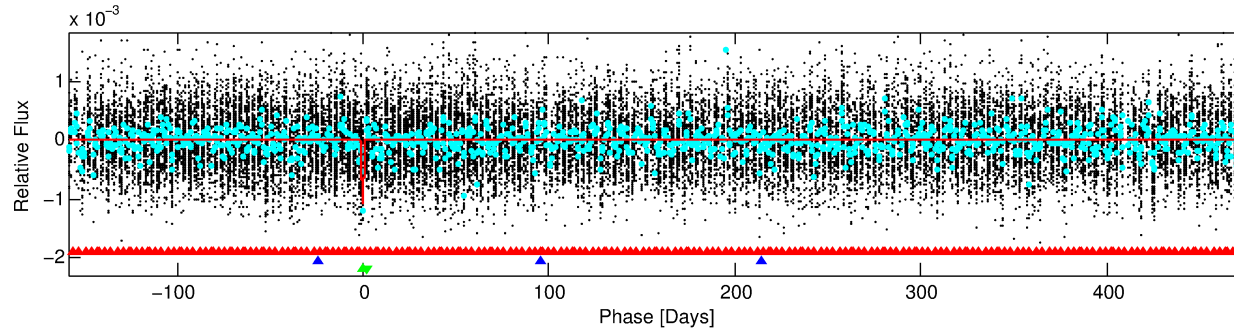
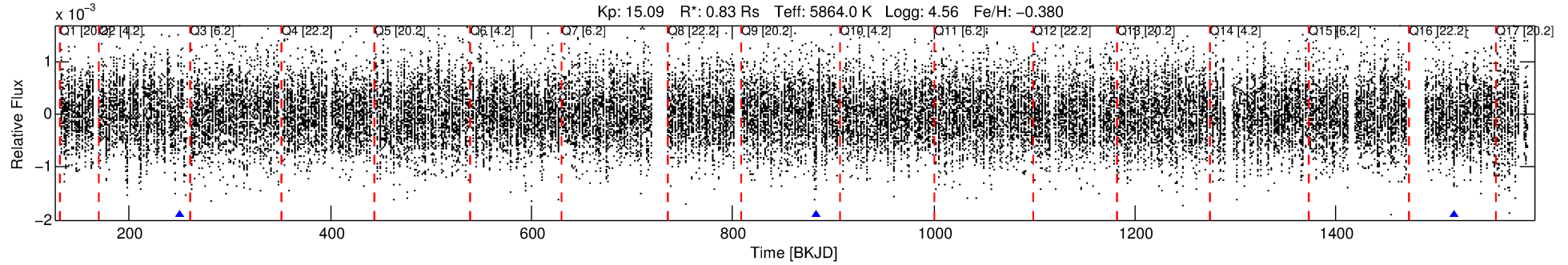
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006310866-03

No Significant Match Found

DV One-Page Summary

KIC: 6310866 Candidate: 3 of 3 Period: 633.770 d



DV Fit Results:

Period = 633.76969 [0.07351] d
Epoch = 249.8660 [0.2055] BKJD
Rp/R* = 0.0577 [0.1547]
a/R* = 36.06 [21.22]
b = 1.00 [0.71]
Seff = 0.37 [0.13]
Teq = 199 [18] K
Rp = 5.20 [14.02] Re
a = 1.3931 [0.3303] AU
Ag = N/A
Teffp = N/A

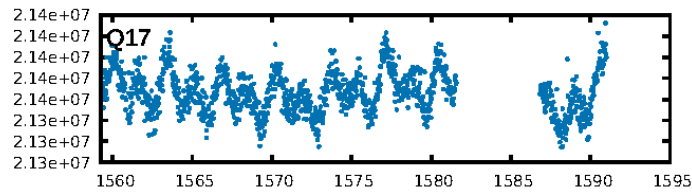
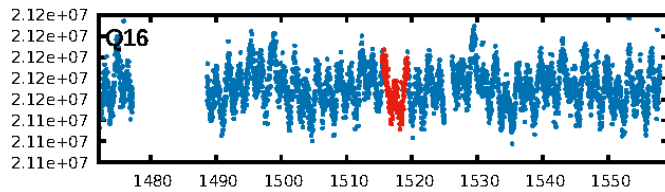
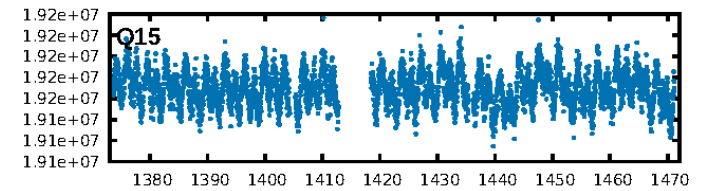
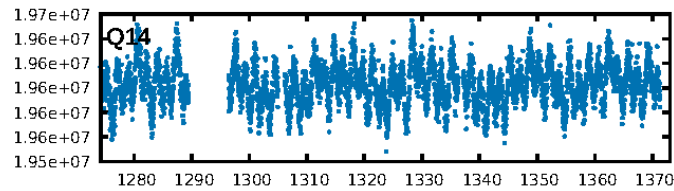
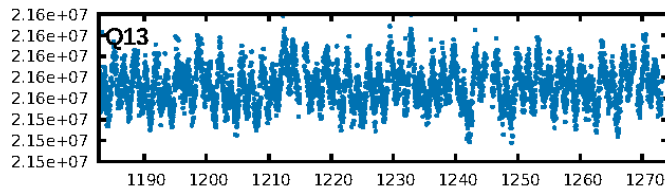
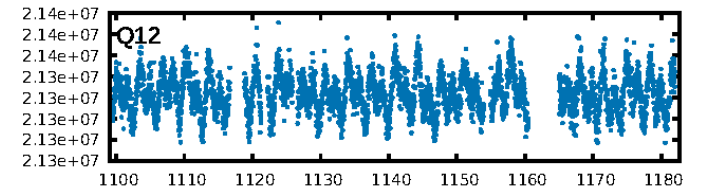
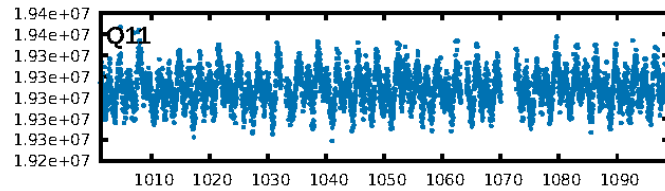
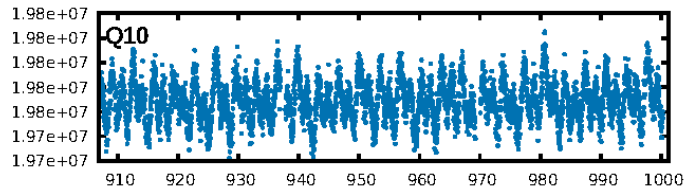
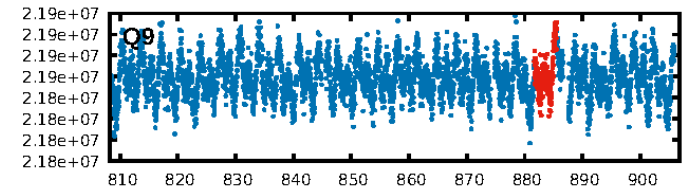
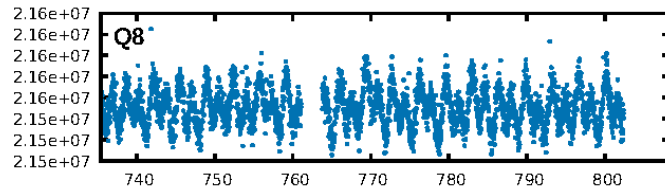
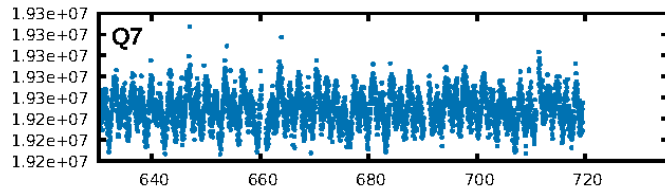
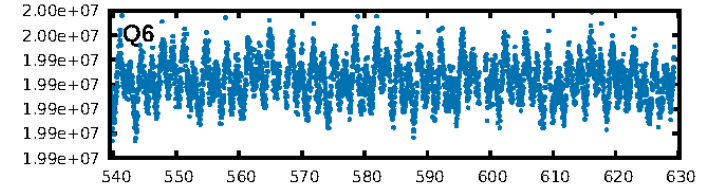
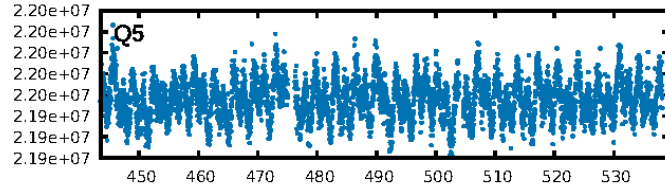
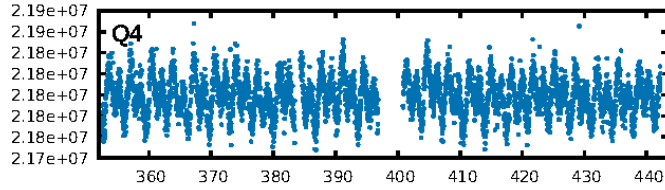
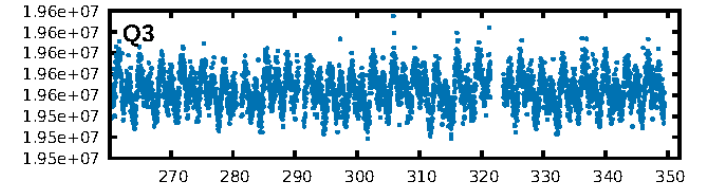
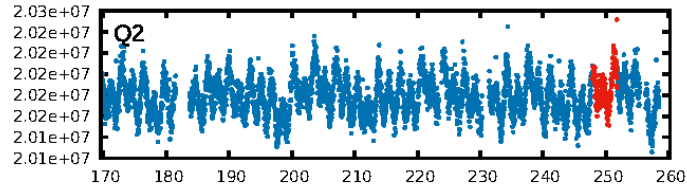
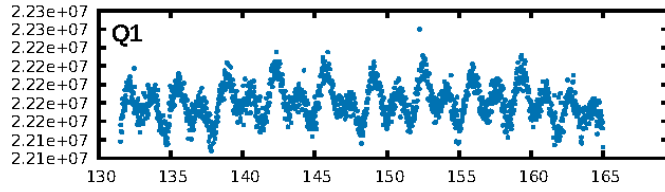
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [59.00 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 11.3%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.66e-18
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.4418
Centroid-sig: 2.4%
Centroid-so: 1.198 arcsec [1.78 σ]
OotOffset-rm: 1.821 arcsec [5.81 σ]
KicOffset-rm: 1.743 arcsec [5.54 σ]
OotOffset-st: 1/0/0/0 [1]
KicOffset-st: 1/0/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 0.00 [0/2]

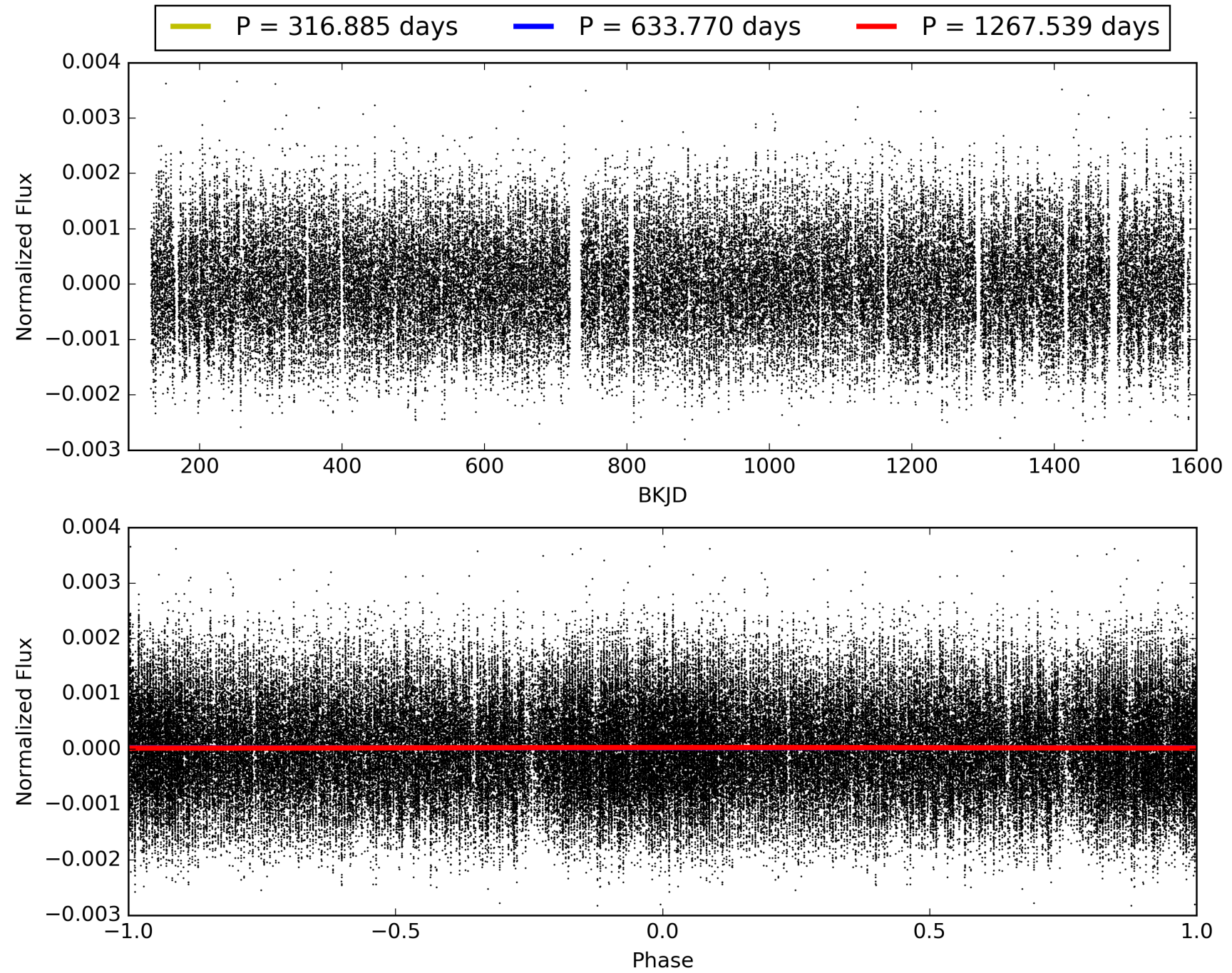
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:54:29 Z

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

TCE 006310866-03, PDC Light Curves

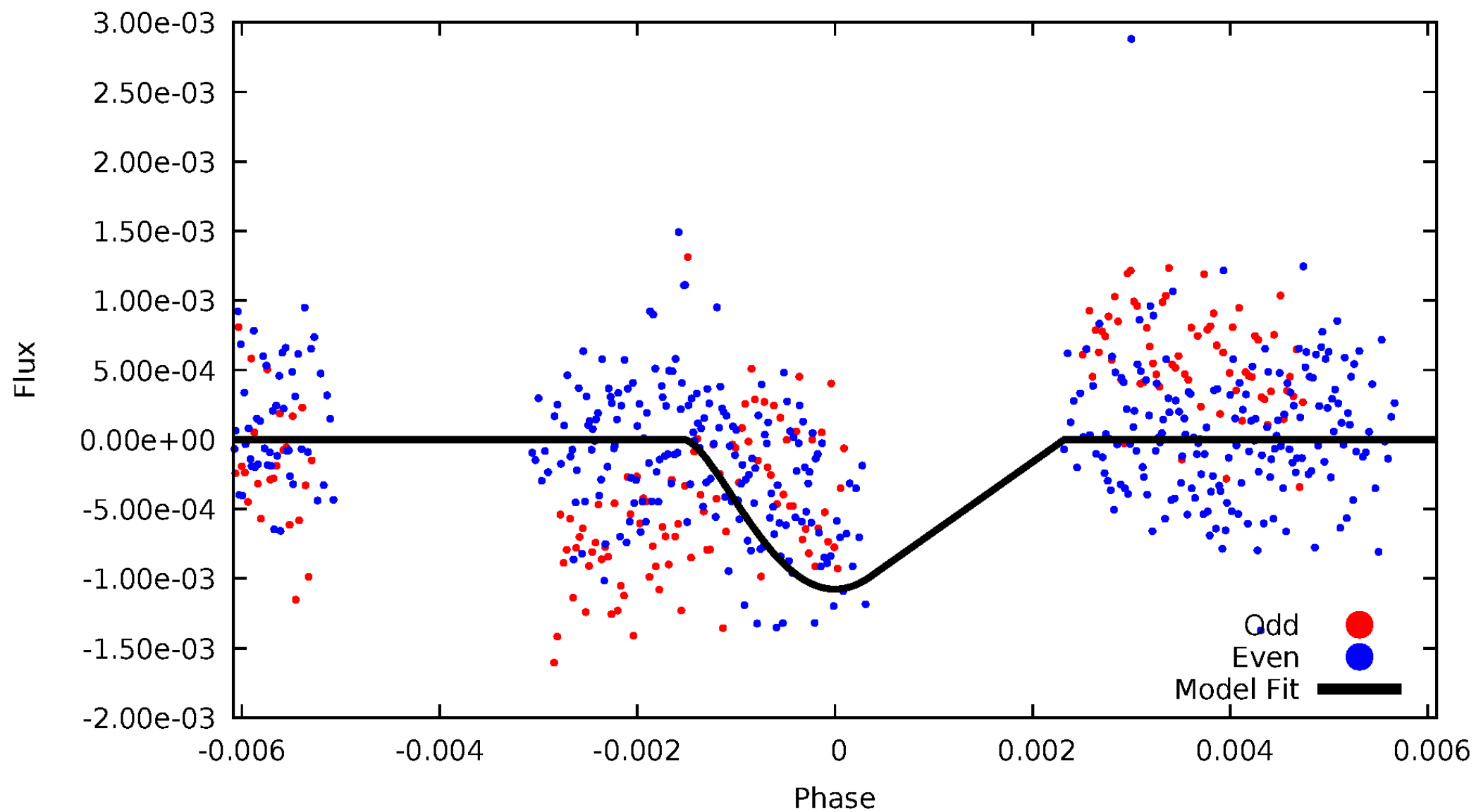


TCE 006310866-03



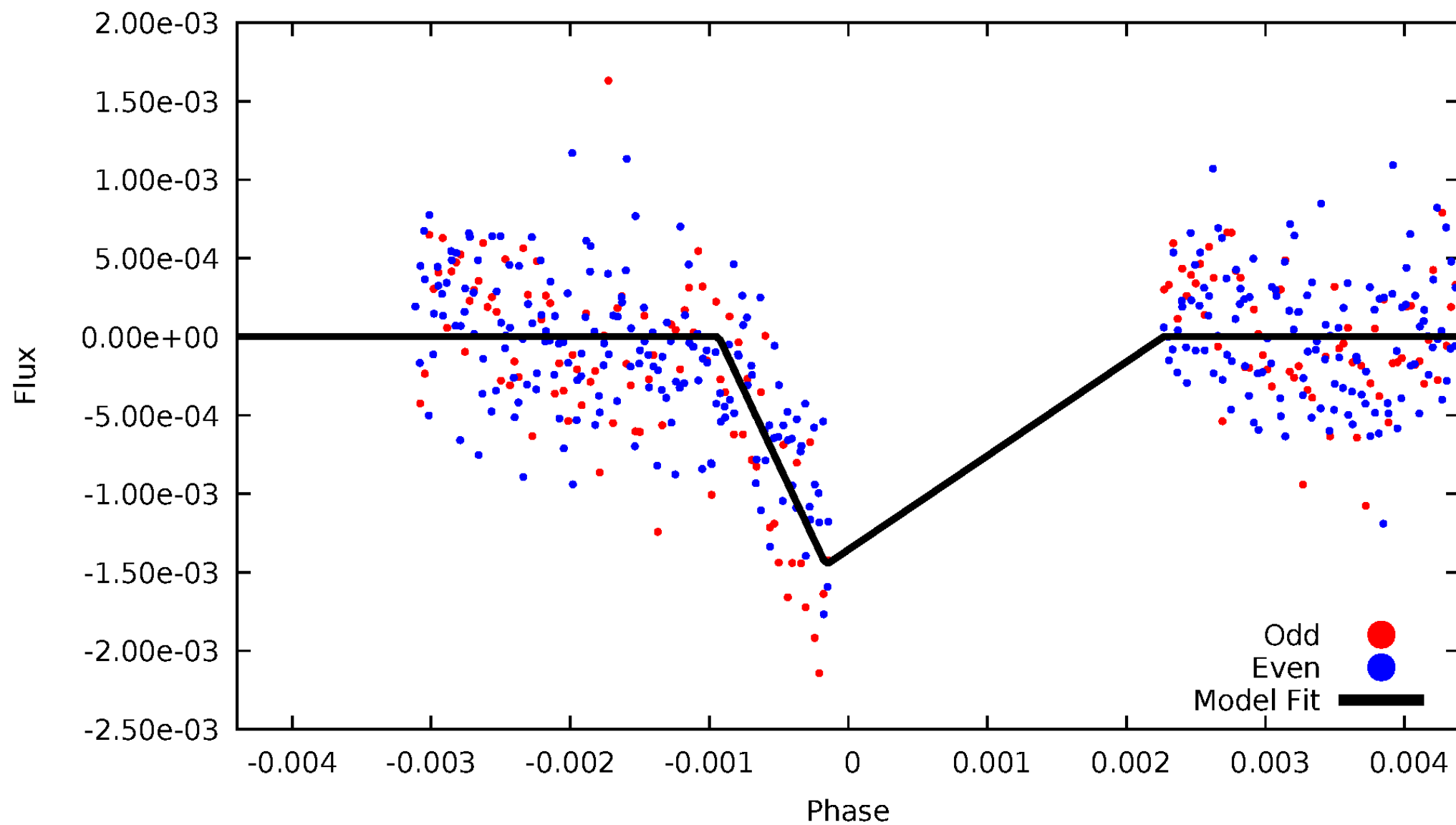
DV Odd/Even

TCE 006310866-03



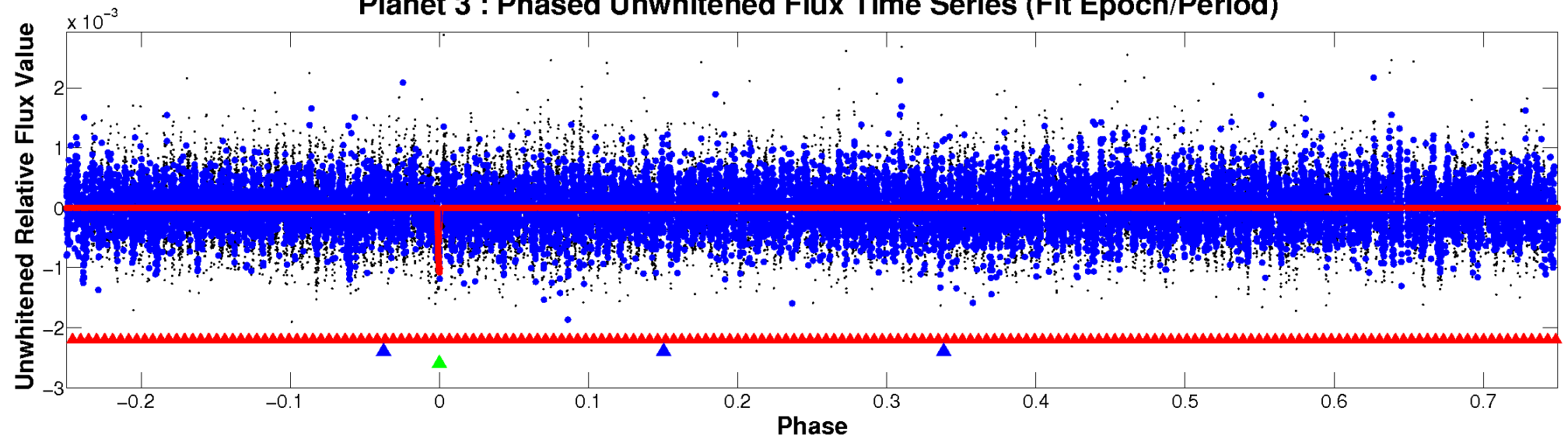
ALT Odd/Even

TCE 006310866-03

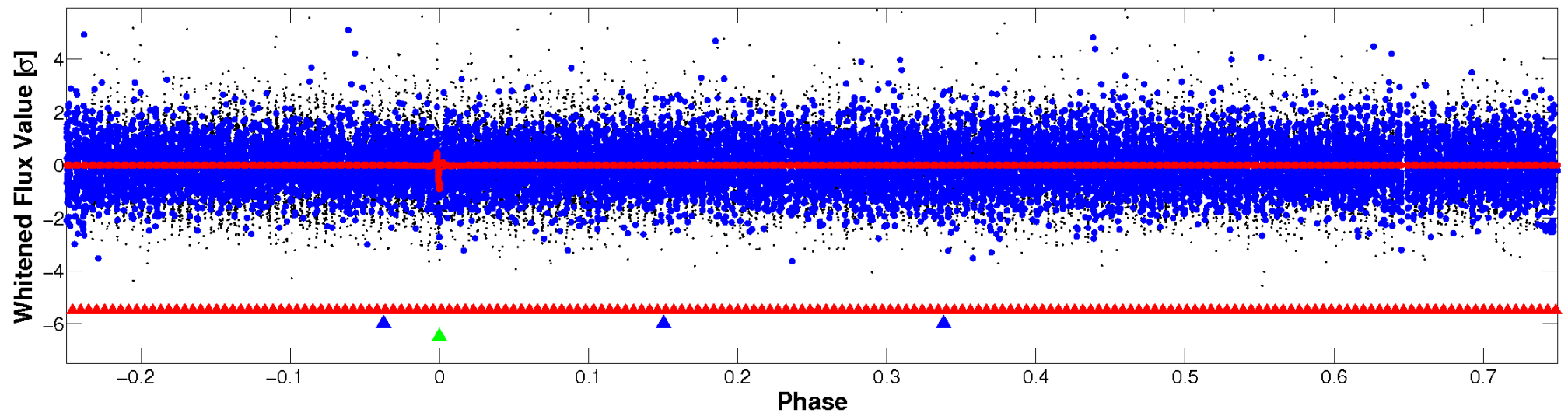


Non-Whitened Vs. Whitened Light Curve

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

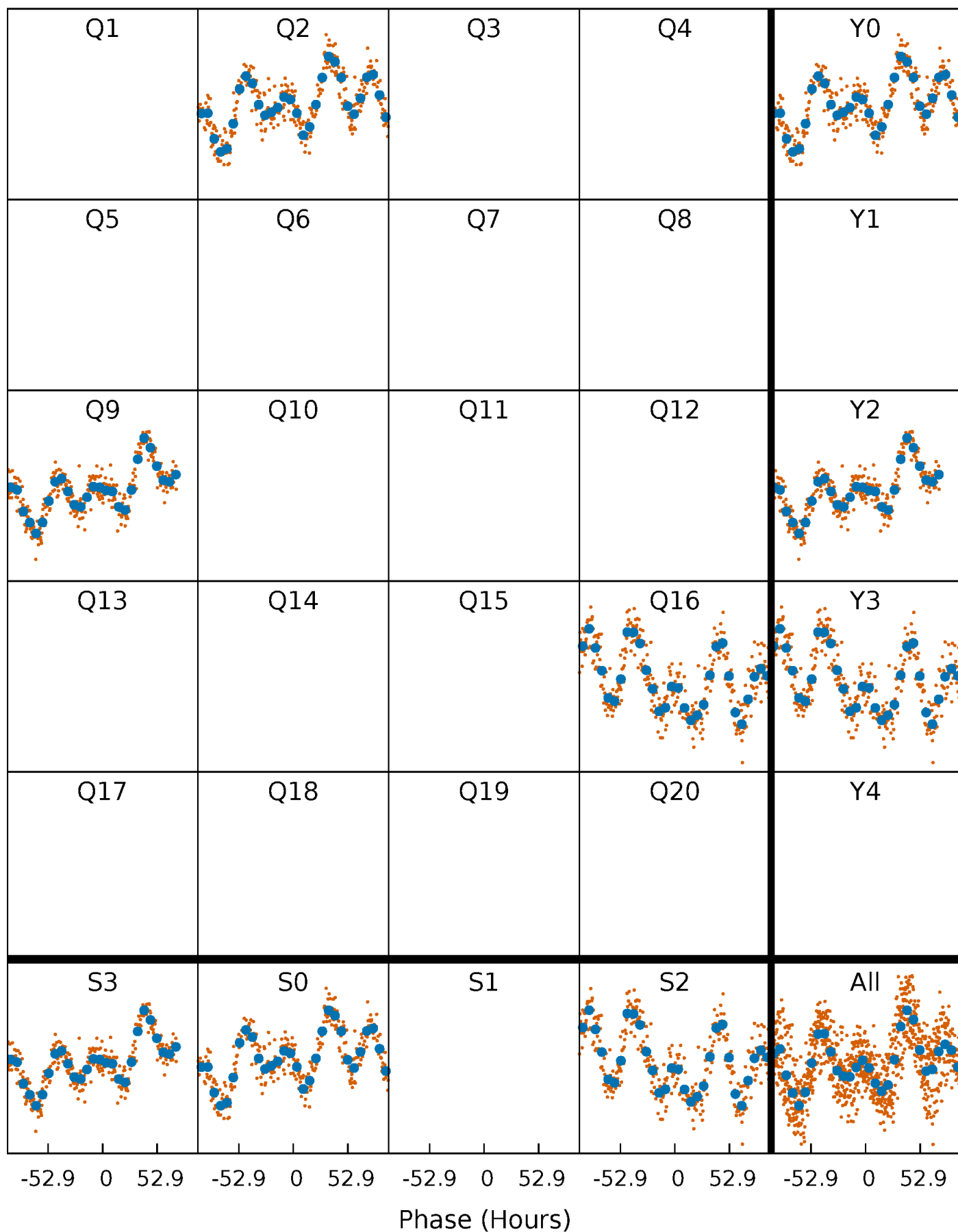


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 006310866-03 P=633.769688 Days $T_0=249.866000$ (BKJD)



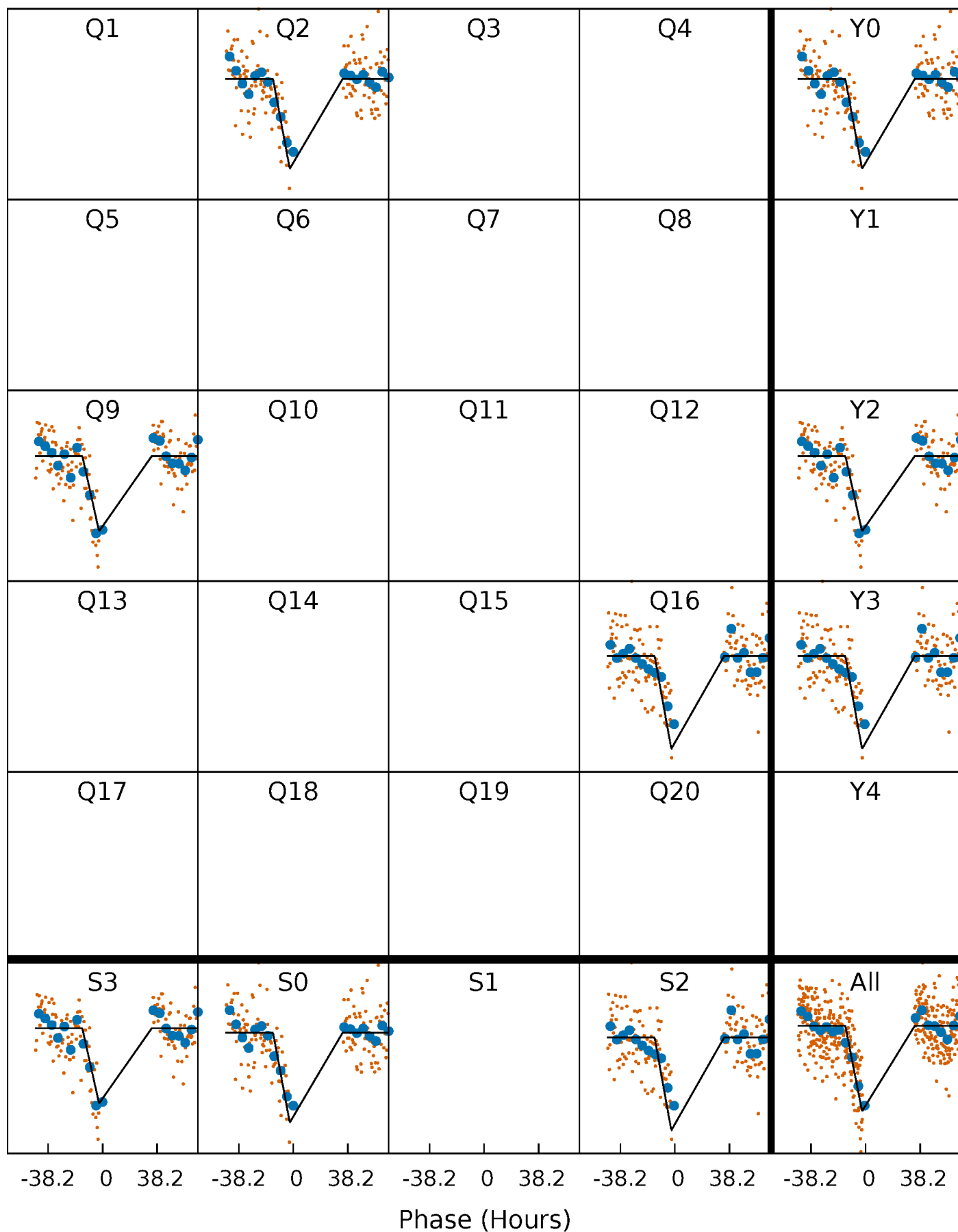
DV Quarter-Phased Transit Curves

TCE 006310866-03 $P=633.769688$ Days $T_0=249.866000$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

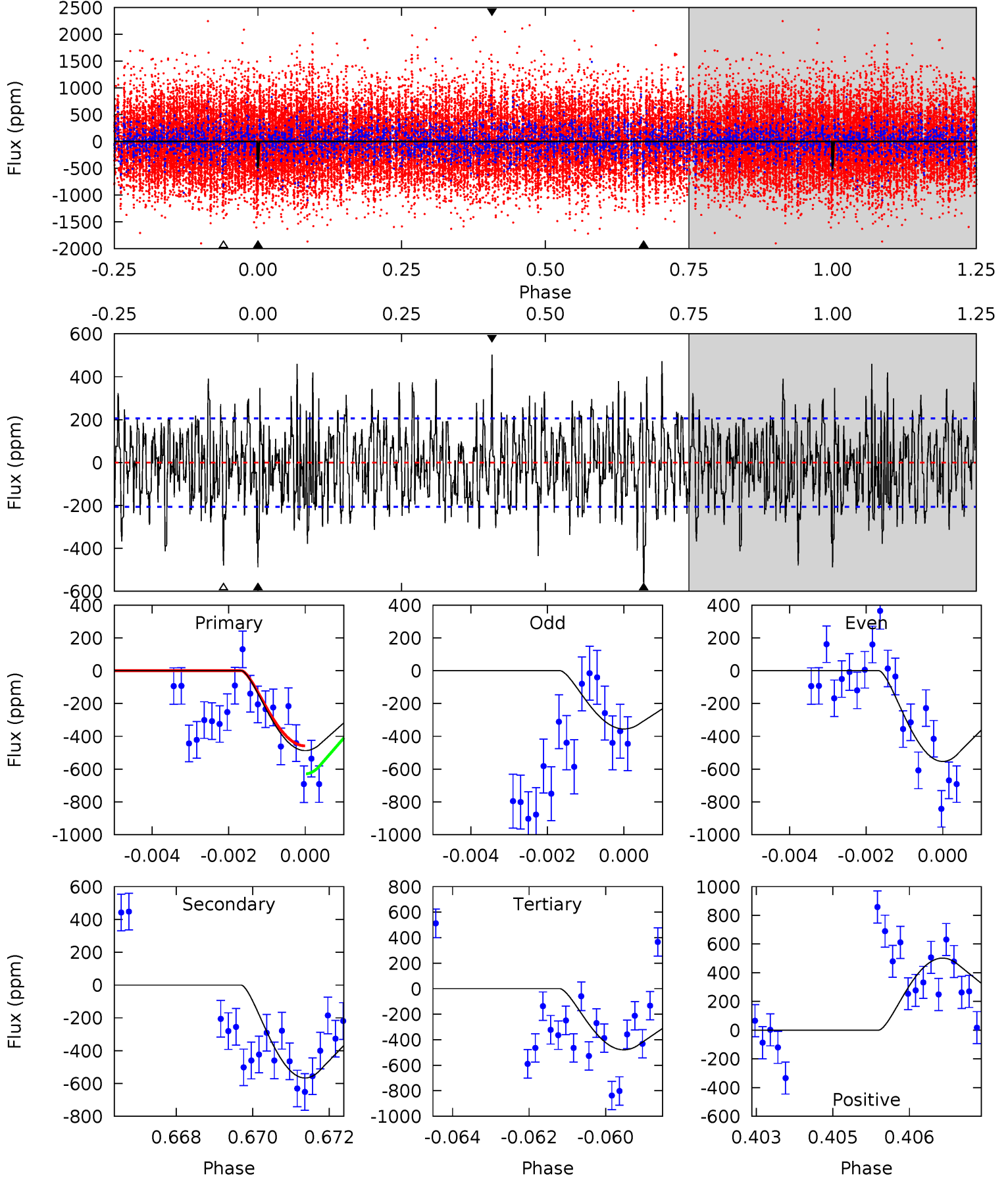
TCE 006310866-03 P=633.910332 Days $T_0=249.875523$ (BKJD)



DV Model-Shift Uniqueness Test

006310866-03, P = 633.769688 Days, E = 249.866000 Days

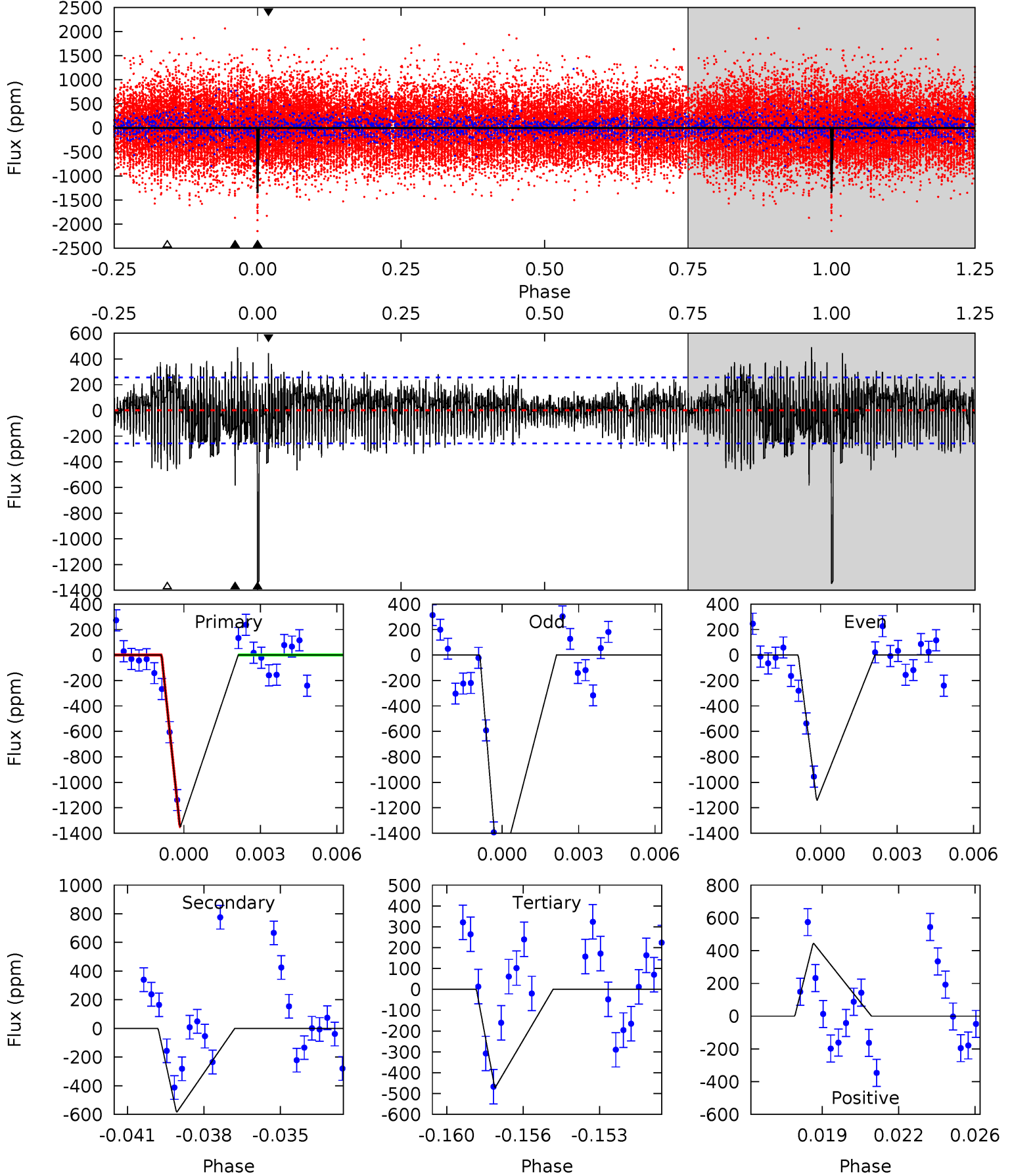
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.6	14.7	12.4	13.0	5.34	3.12	3.83	0.22	-0.38	2.27	1.68	2.44	1.20	0.47	1.19



Alt Model-Shift Uniqueness Test

006310866-03, P = 633.910332 Days, E = 249.875523 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.5	11.9	9.61	9.08	5.24	2.95	2.74	17.9	18.4	2.30	2.83	6.04	0	0.27	0



Stellar Parameters For KIC 006310866

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5864^{+158}_{-175}	$4.557^{+0.046}_{-0.184}$	$-0.380^{+0.300}_{-0.300}$	$0.826^{+0.236}_{-0.079}$	$0.898^{+0.099}_{-0.109}$	$2.241^{+0.531}_{-1.105}$
	+3%/-3%	+1%/-4%	+79%/-79%	+29%/-10%	+11%/-12%	+24%/-49%
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 006310866-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-567 ± 39	$12.27^{+12.09}_{-8.43}$	284^{+17}_{-12}	3119^{+1545}_{-518}	3963^{+35988}_{-2962}
Alt.	-583 ± 49	$10.51^{+11.85}_{-6.79}$	284^{+17}_{-13}	3264^{+1475}_{-599}	5612^{+36198}_{-4431}

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 $A_{obs} \gg 1.0$

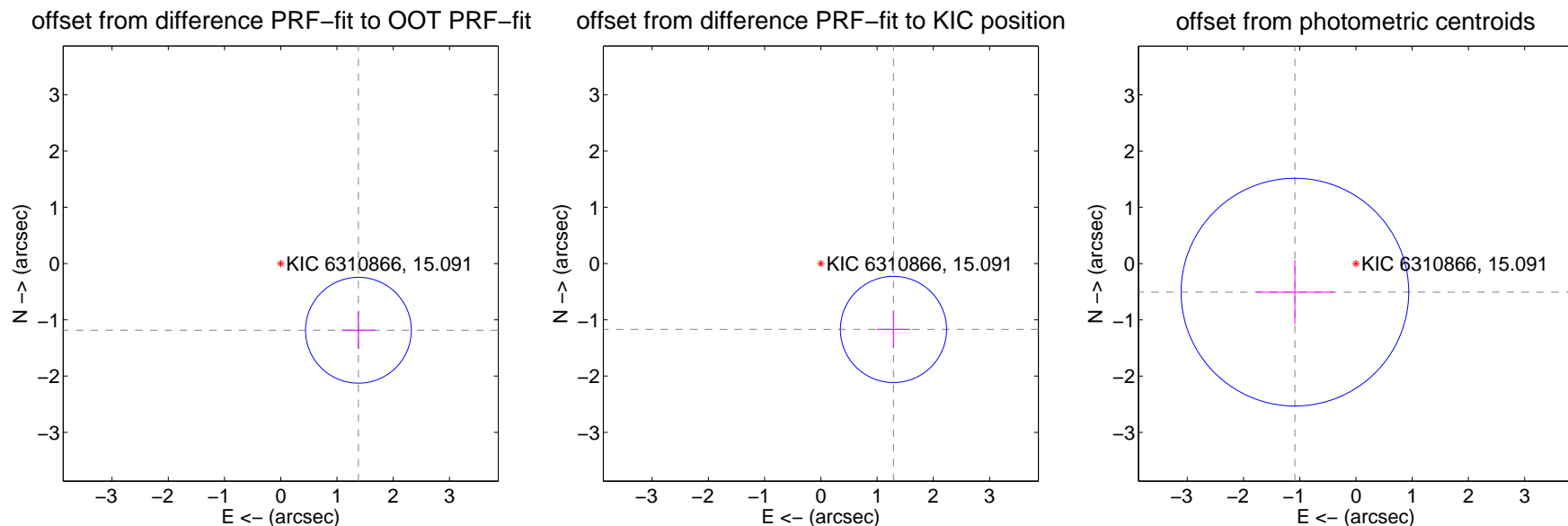
DV Centroid Data

Supplemental centroid analysis for 006310866-03. Kepler magnitude: 15.09. Transit SNR 7.18

There are 1 quarters with good PRF difference image offsets

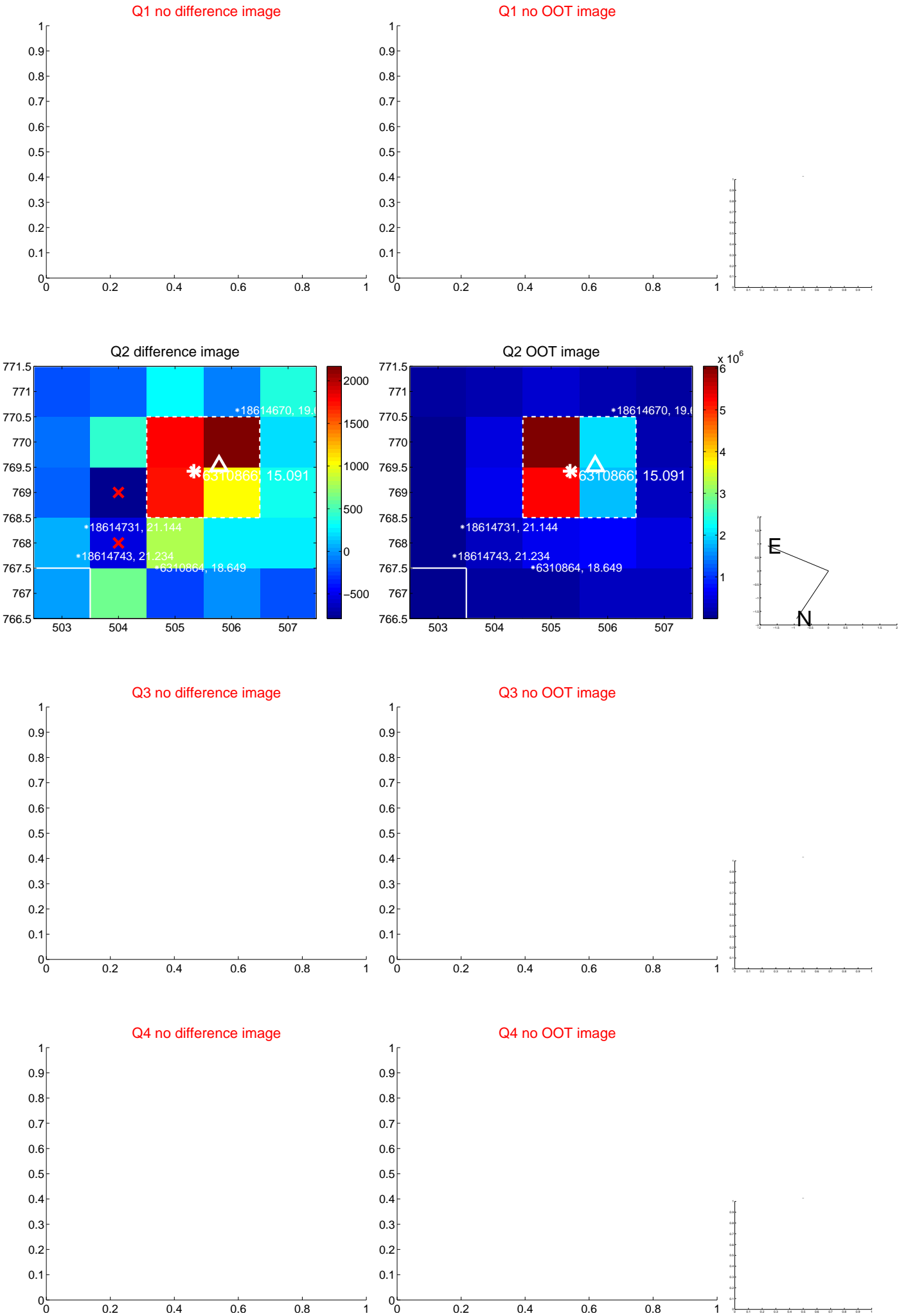
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.821 ± 0.314	5.81	-1.382 ± 0.296	-1.186 ± 0.335
PRF-fit source offset from KIC position	1.743 ± 0.315	5.54	-1.291 ± 0.296	-1.171 ± 0.335
photometric centroid source offset	1.20 ± 0.67	1.78	1.09 ± 0.70	-0.51 ± 0.57



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.

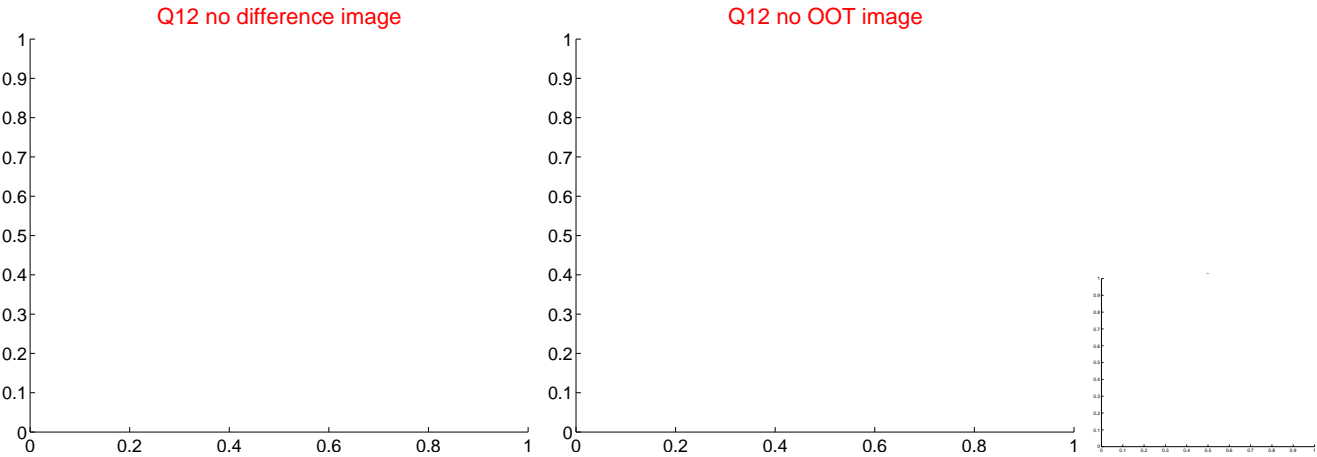
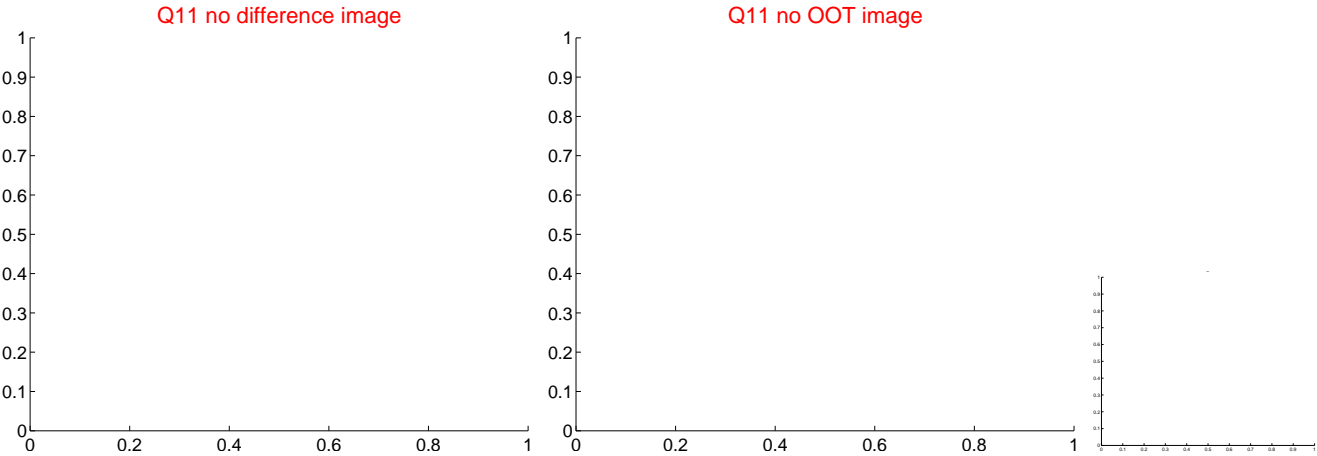
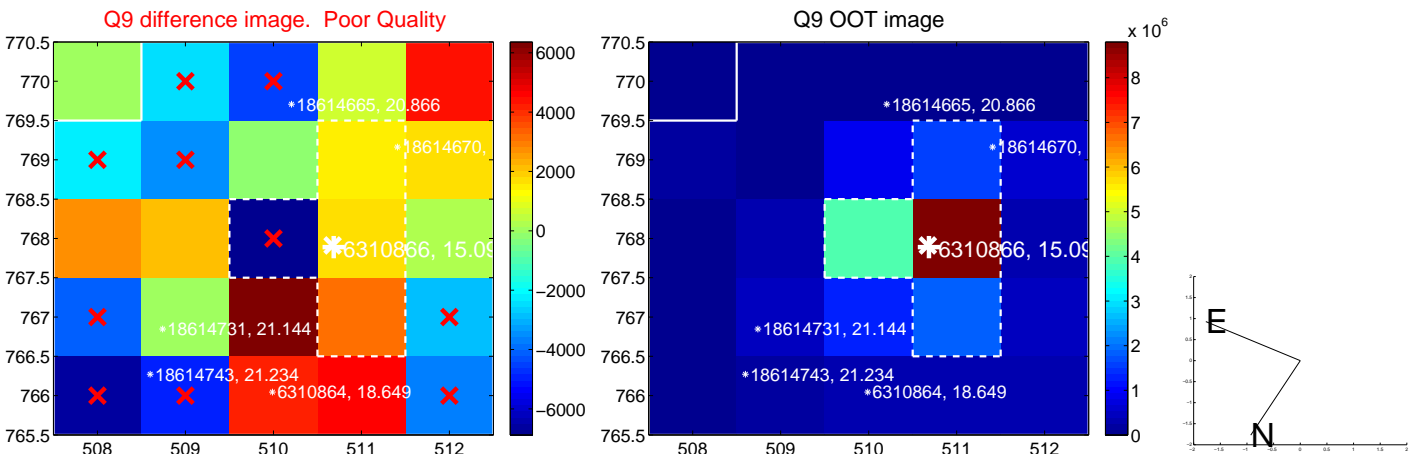
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



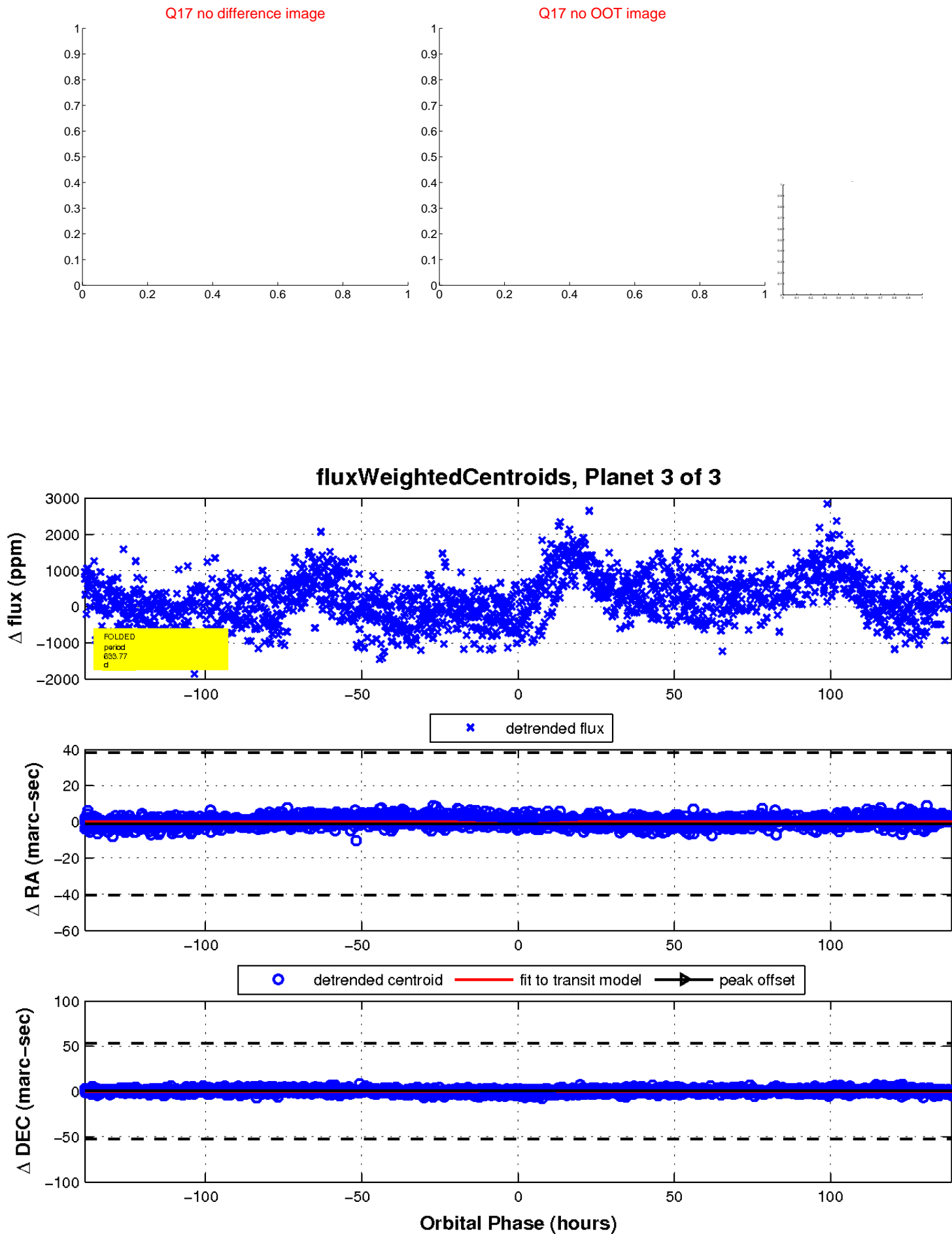
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

