

KIC 011190713

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})
011190713-01	OBS	No	559.067285	235.074349	1066.4	3.528	17.4	7.0	0.52	4637	1.72	0.10
011190713-03	OBS	No	413.266373	313.398125	298.5	1.707	16.3	2.2	0.52	4637	1.00	0.15
011190713-04	OBS	No	387.634484	369.016368	589.3	1.958	16.4	4.3	0.52	4637	1.39	0.16
011190713-05	OBS	No	337.185015	251.224302	938.1	3.578	14.8	6.7	0.52	4637	1.60	0.19
011190713-06	OBS	No	486.849363	266.926009	1396.7	5.272	18.2	8.2	0.52	4637	2.04	0.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011190713-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—INCONSISTENT_TRANS
011190713-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011190713-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—HALO_GHOST
011190713-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_SKYE_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011190713-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

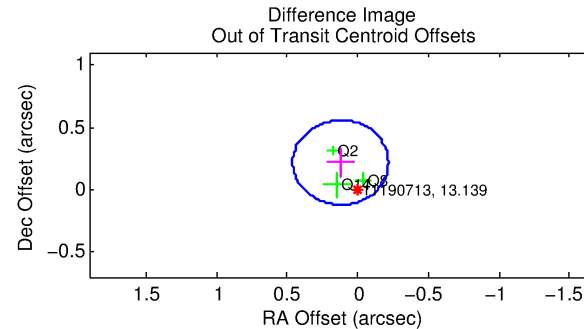
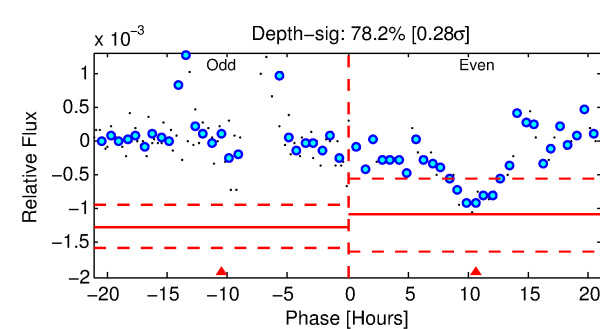
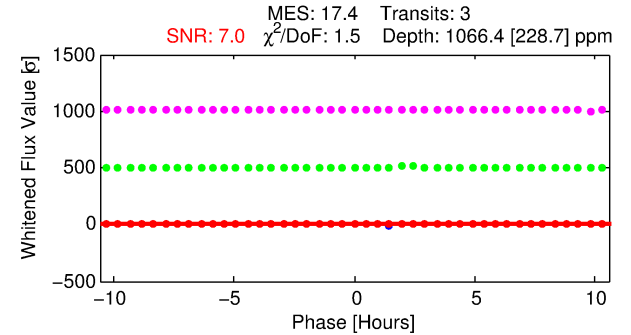
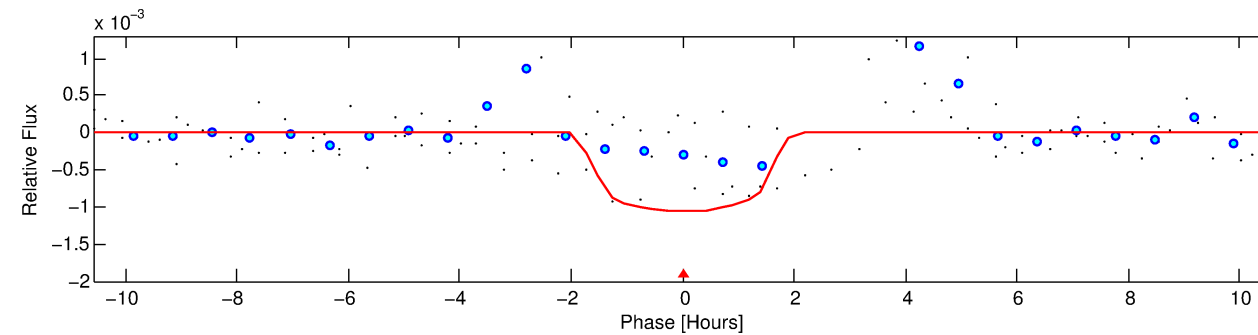
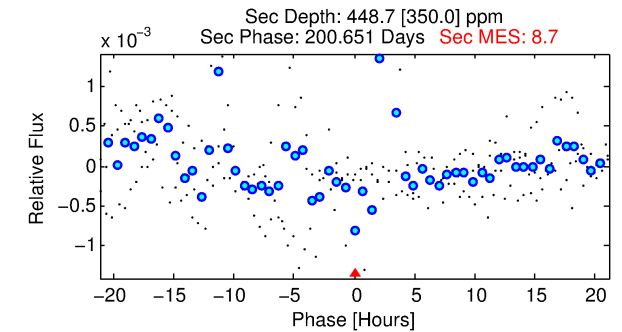
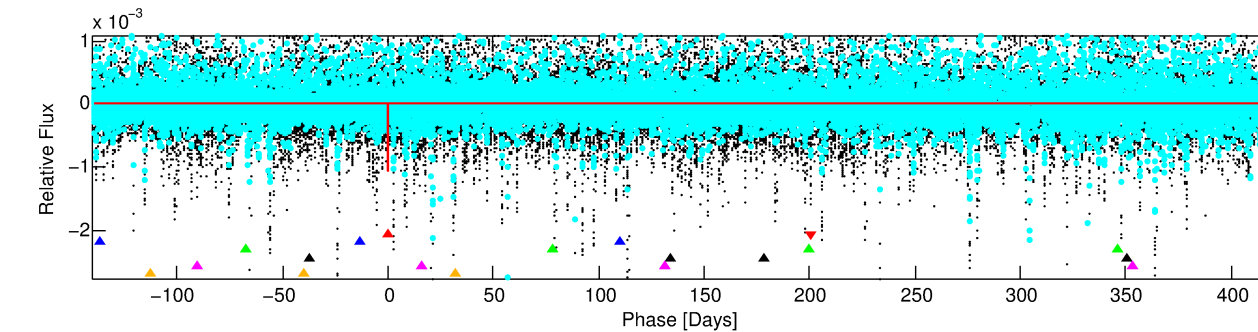
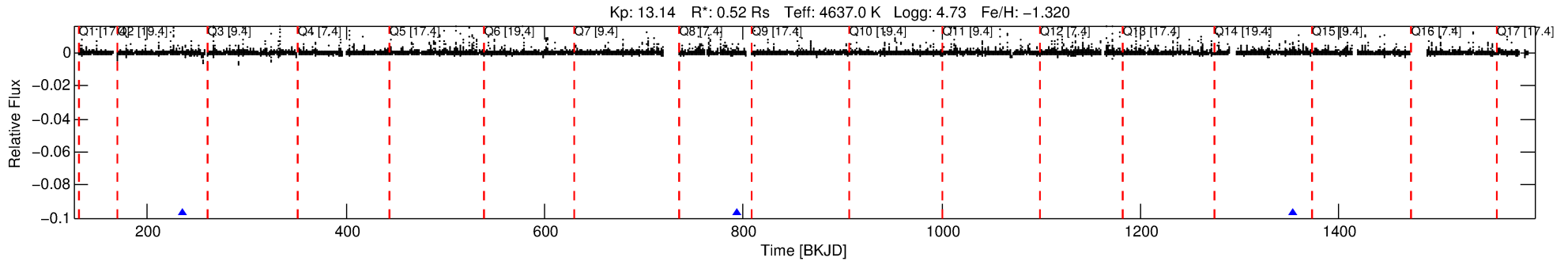
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011190713-01

No Significant Match Found

DV One-Page Summary

KIC: 11190713 Candidate: 1 of 6 Period: 559.067 d



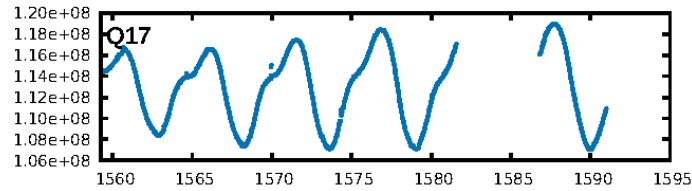
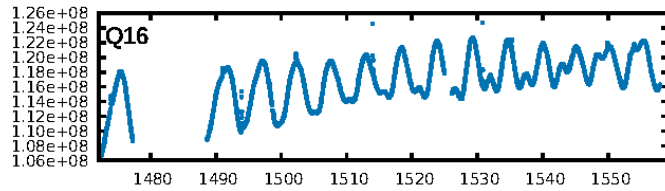
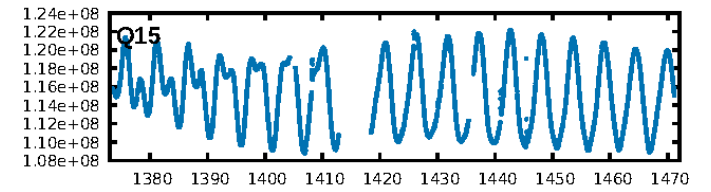
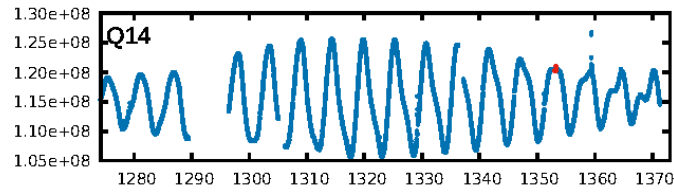
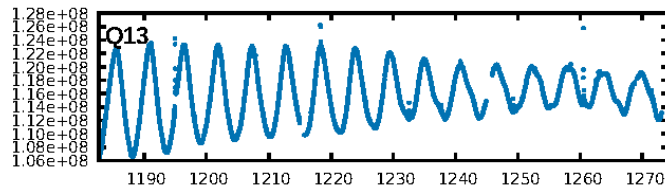
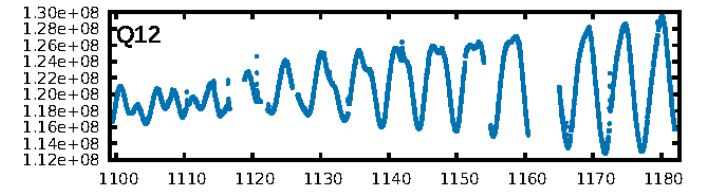
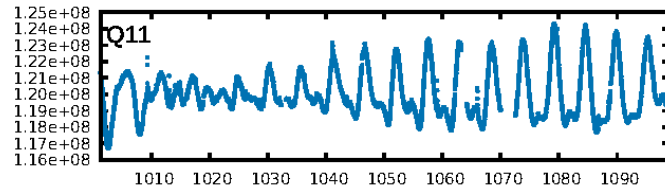
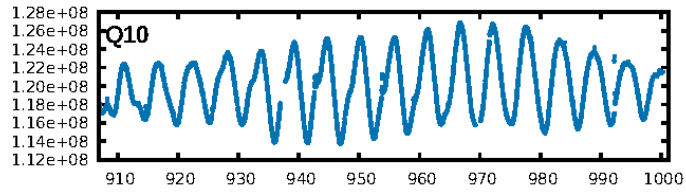
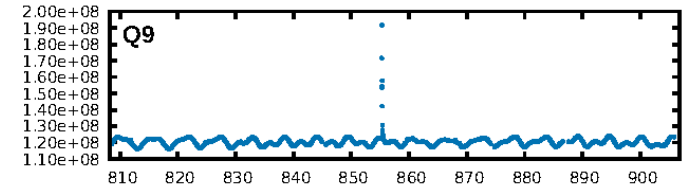
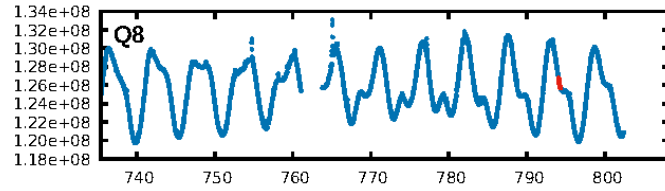
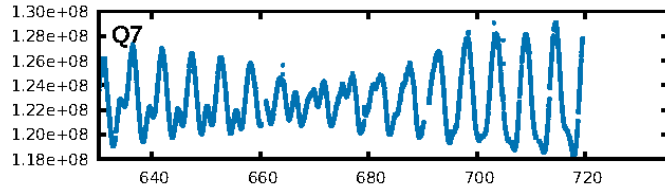
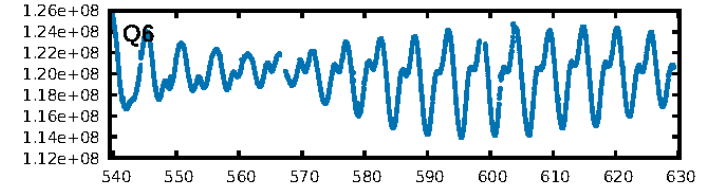
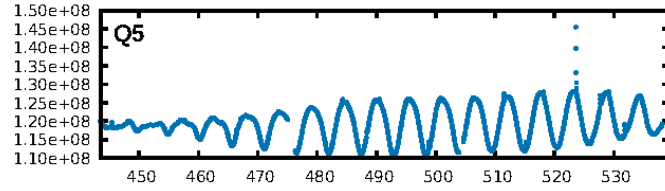
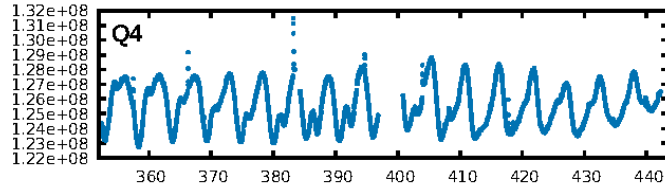
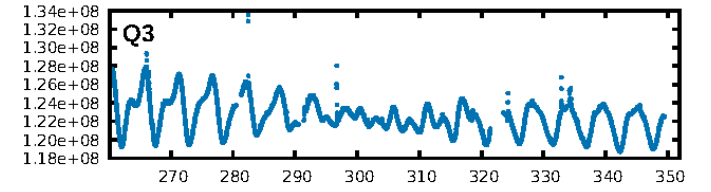
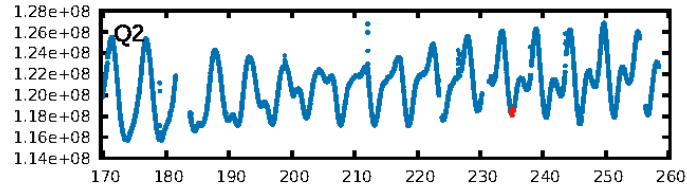
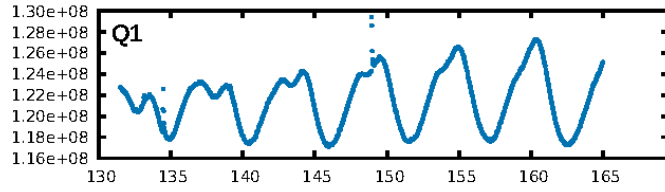
DV Fit Results:

Period = 559.06729 [0.00628] d
Epoch = 235.0743 [0.0106] BKJD
Rp/R* = 0.0302 [0.2298]
a/R* = 1116.14 [33701.91]
b = 0.46 [52.27]
Seff = 0.10 [0.02]
Teq = 143 [6] K
Rp = 1.72 [13.09] Re
a = 1.0743 [0.0644] AU
Ag = 96053.16 [1461869.93] [0.07 σ]
Teffp = 3881 [14768] K [0.25 σ]

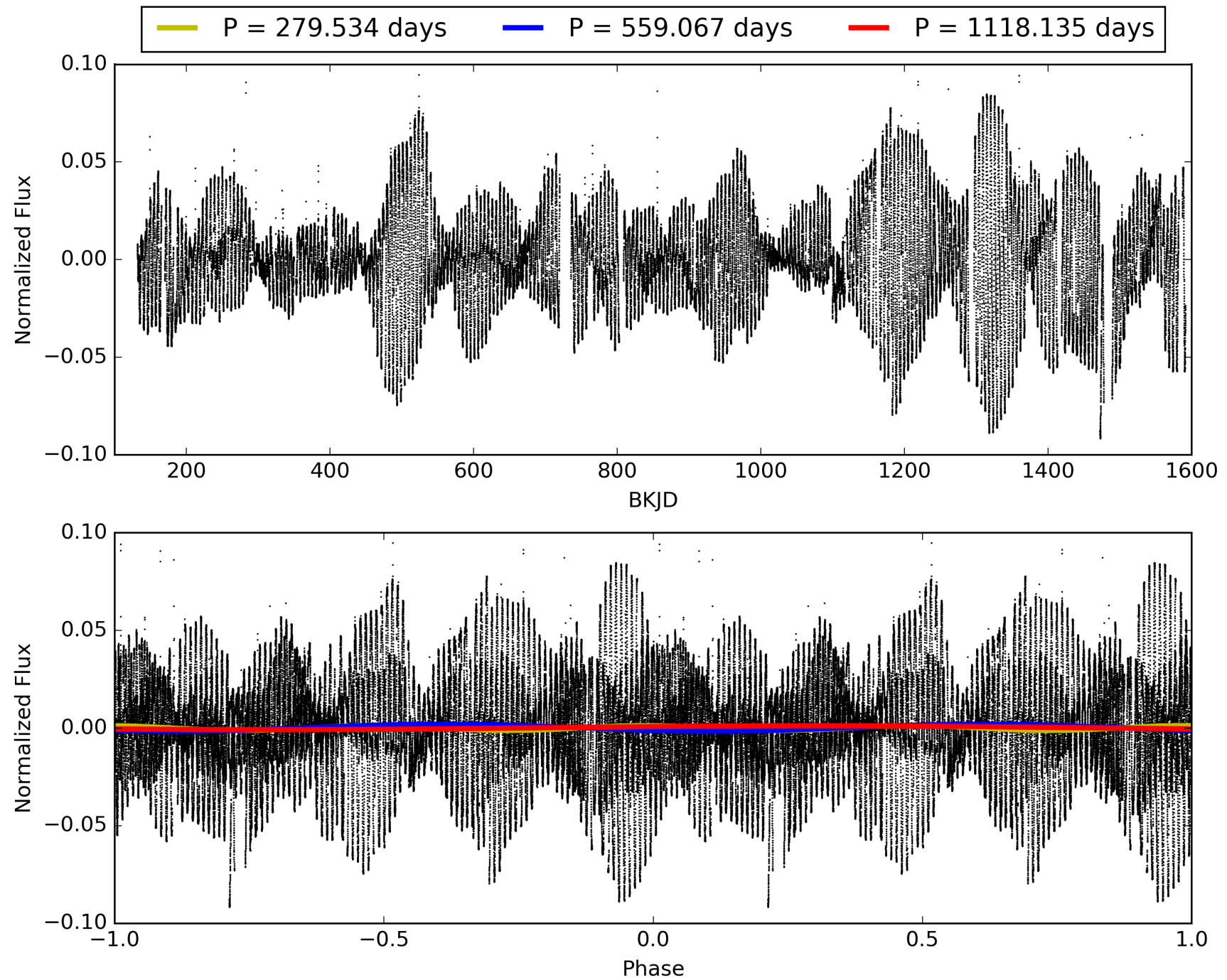
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [273.24 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 49.6%
ModelChiSquareGof-sig: 61.6%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.7569
Centroid-sig: 14.9%
Centroid-so: 0.631 arcsec [1.48 σ]
OotOffset-rm: 0.248 arcsec [2.20 σ]
OotOffset-st: 2/0/1/0 [3]
KicOffset-rm: 0.511 arcsec [4.28 σ]
KicOffset-st: 2/0/1/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 011190713-01, PDC Light Curves

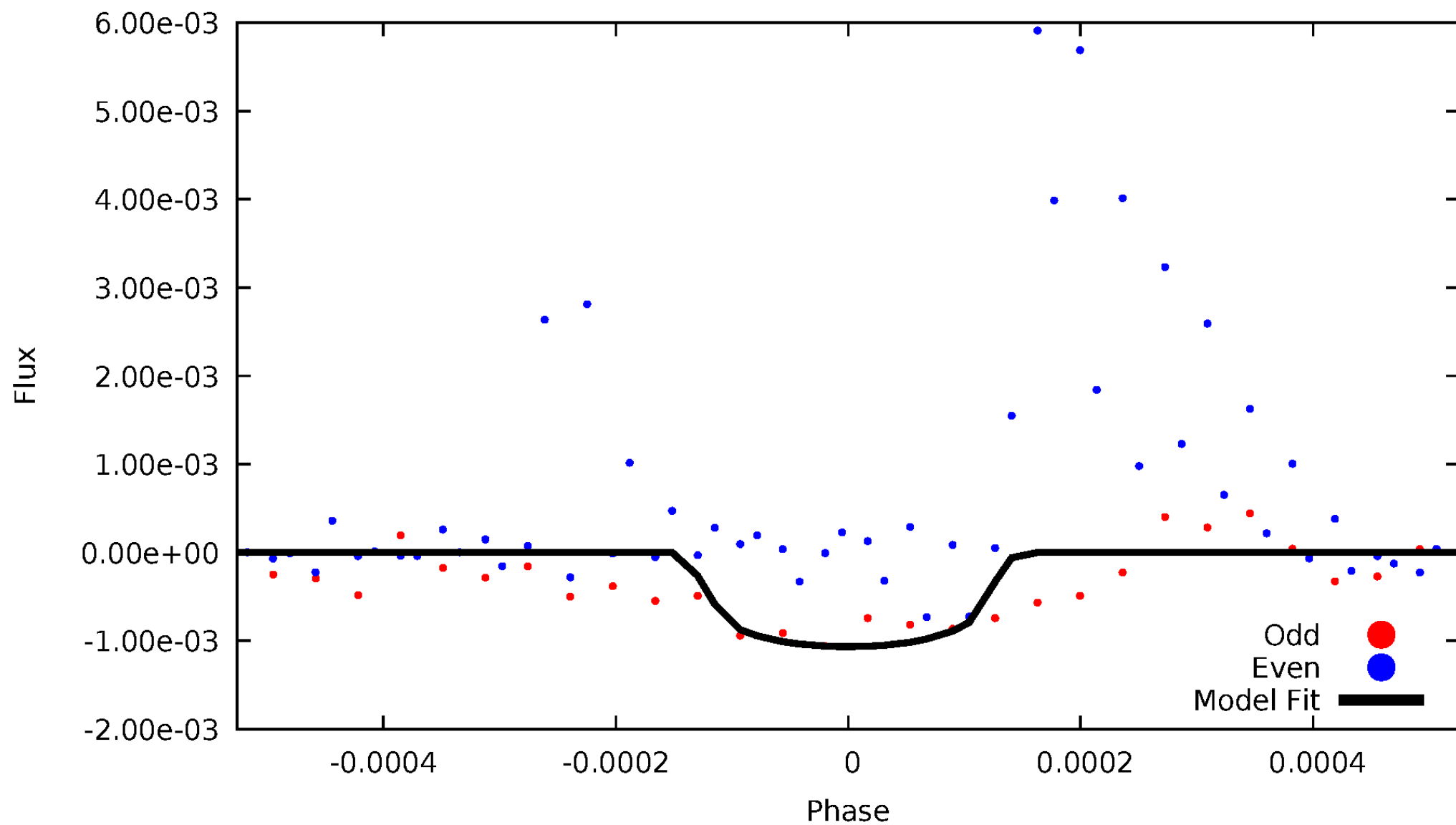


TCE 011190713-01



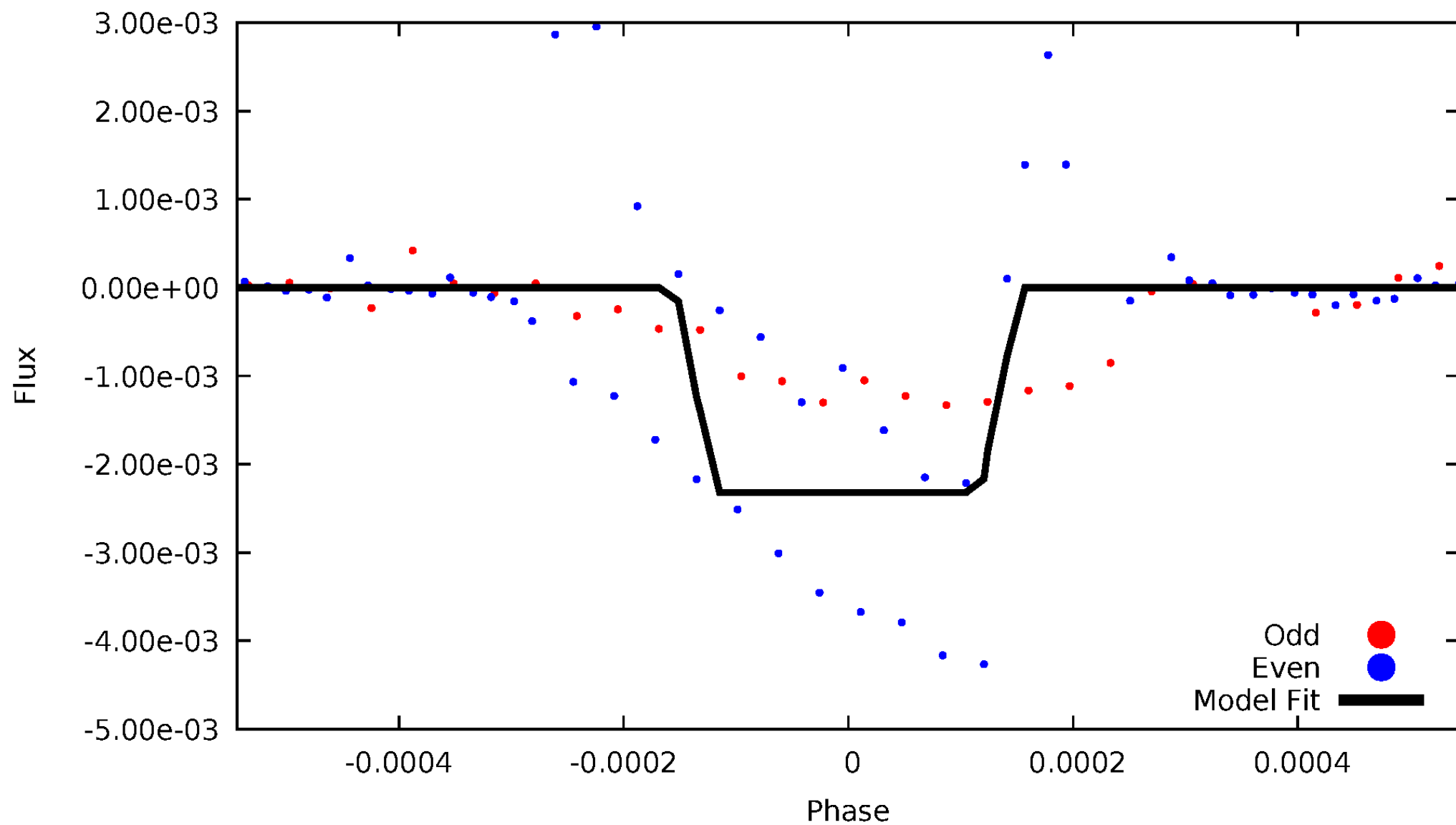
DV Odd/Even

TCE 011190713-01



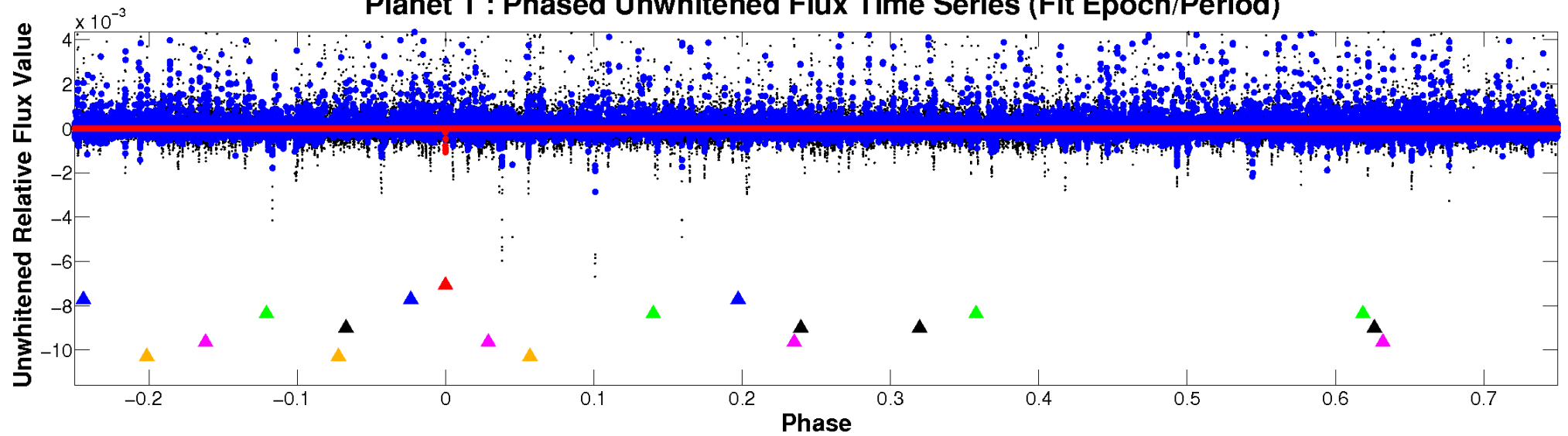
ALT Odd/Even

TCE 011190713-01

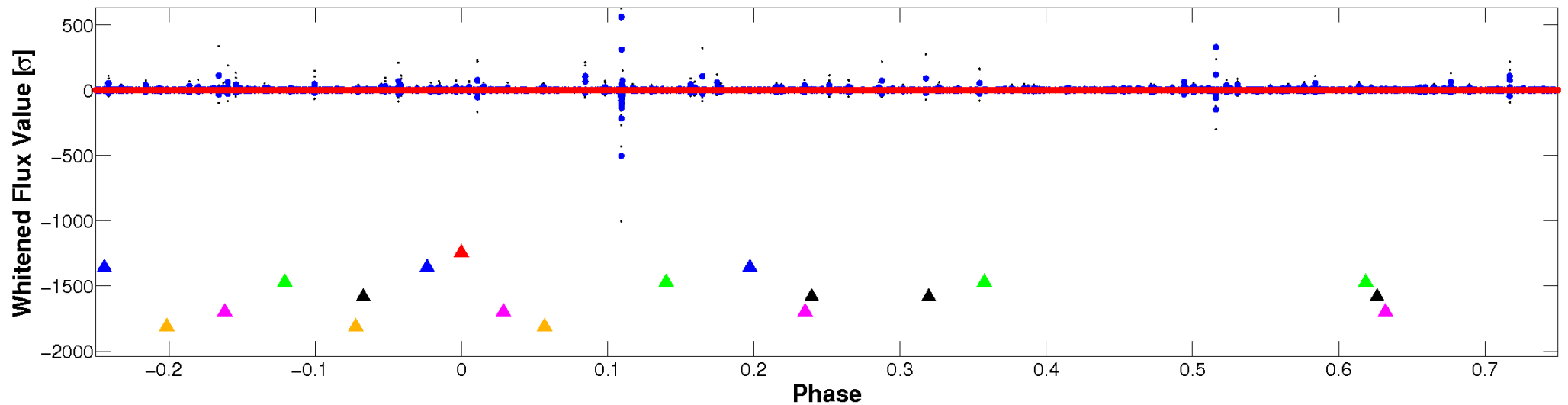


Non-Whitened Vs. Whitened Light Curve

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

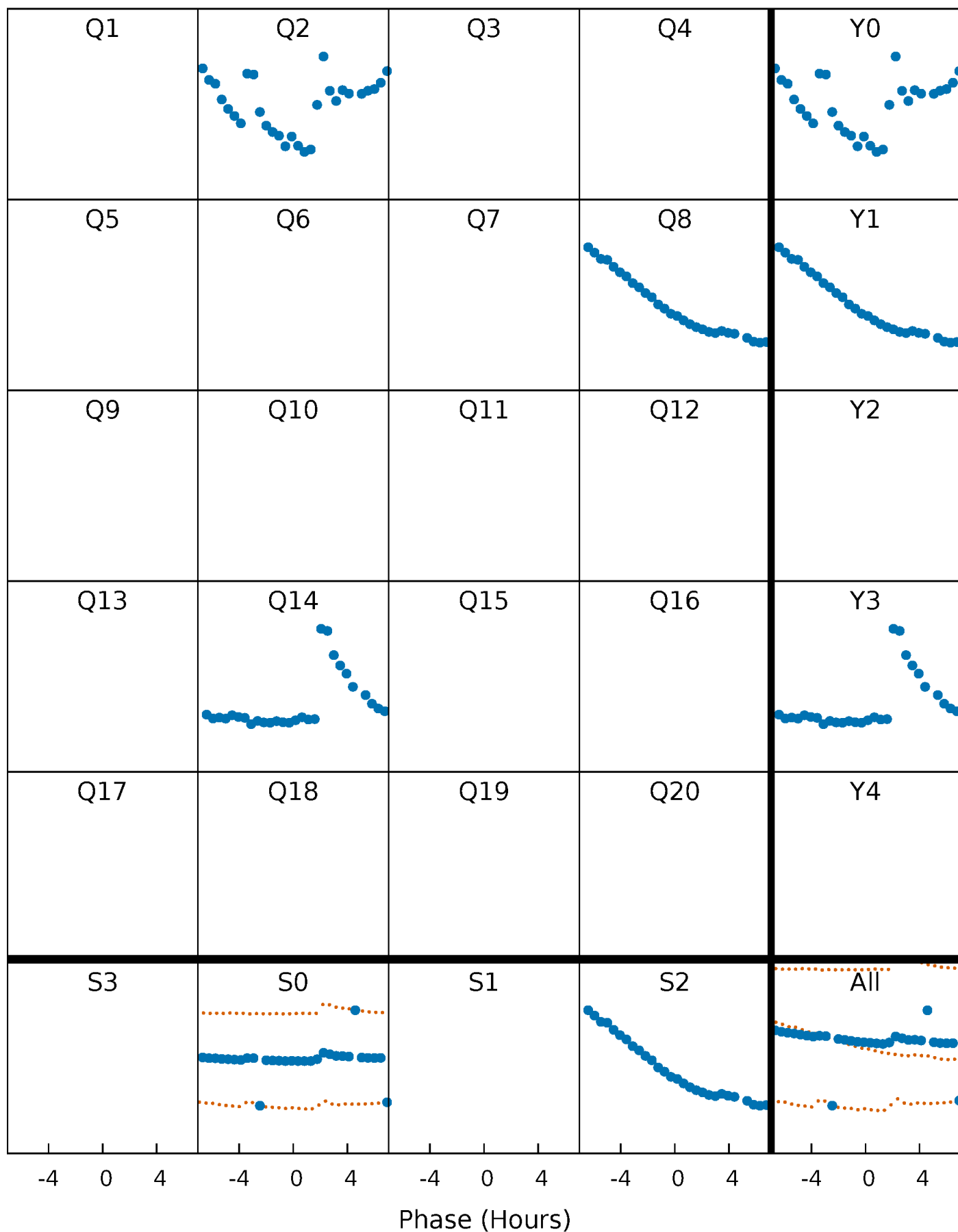


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



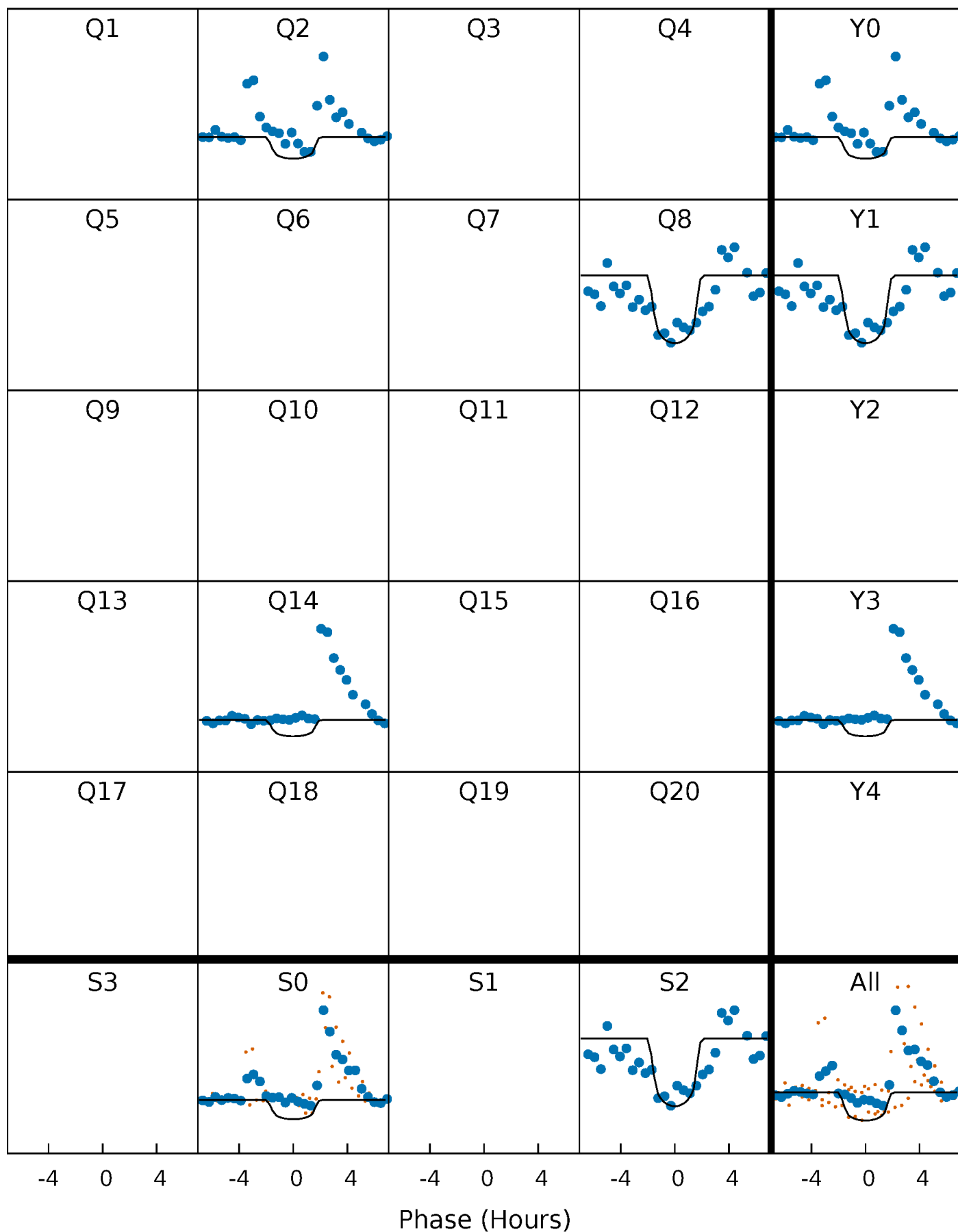
PDC Quarter-Phased Transit Curves

TCE 011190713-01 P=559.067285 Days $T_0=235.074350$ (BKJD)



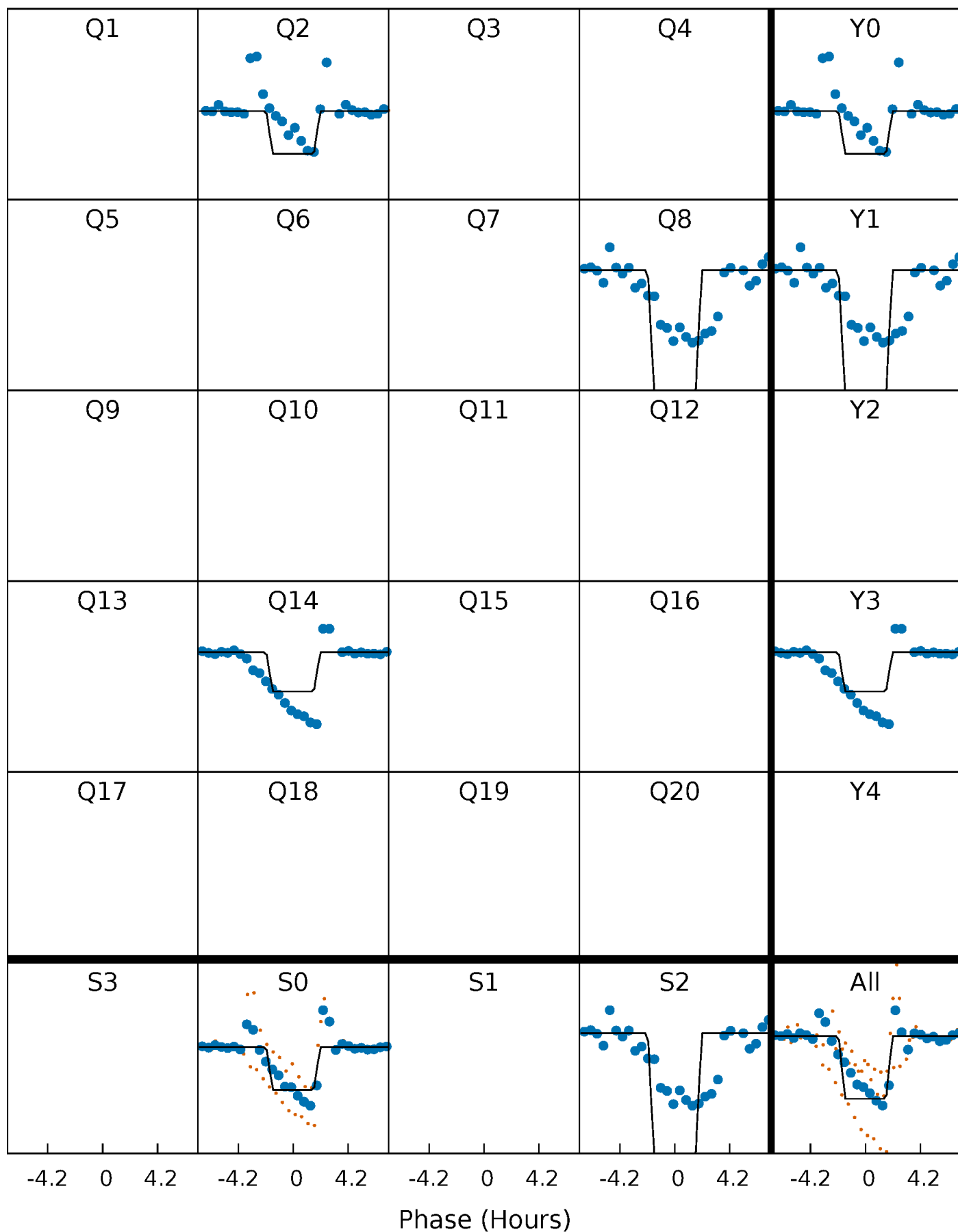
DV Quarter-Phased Transit Curves

TCE 011190713-01 P=559.067285 Days $T_0=235.074350$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

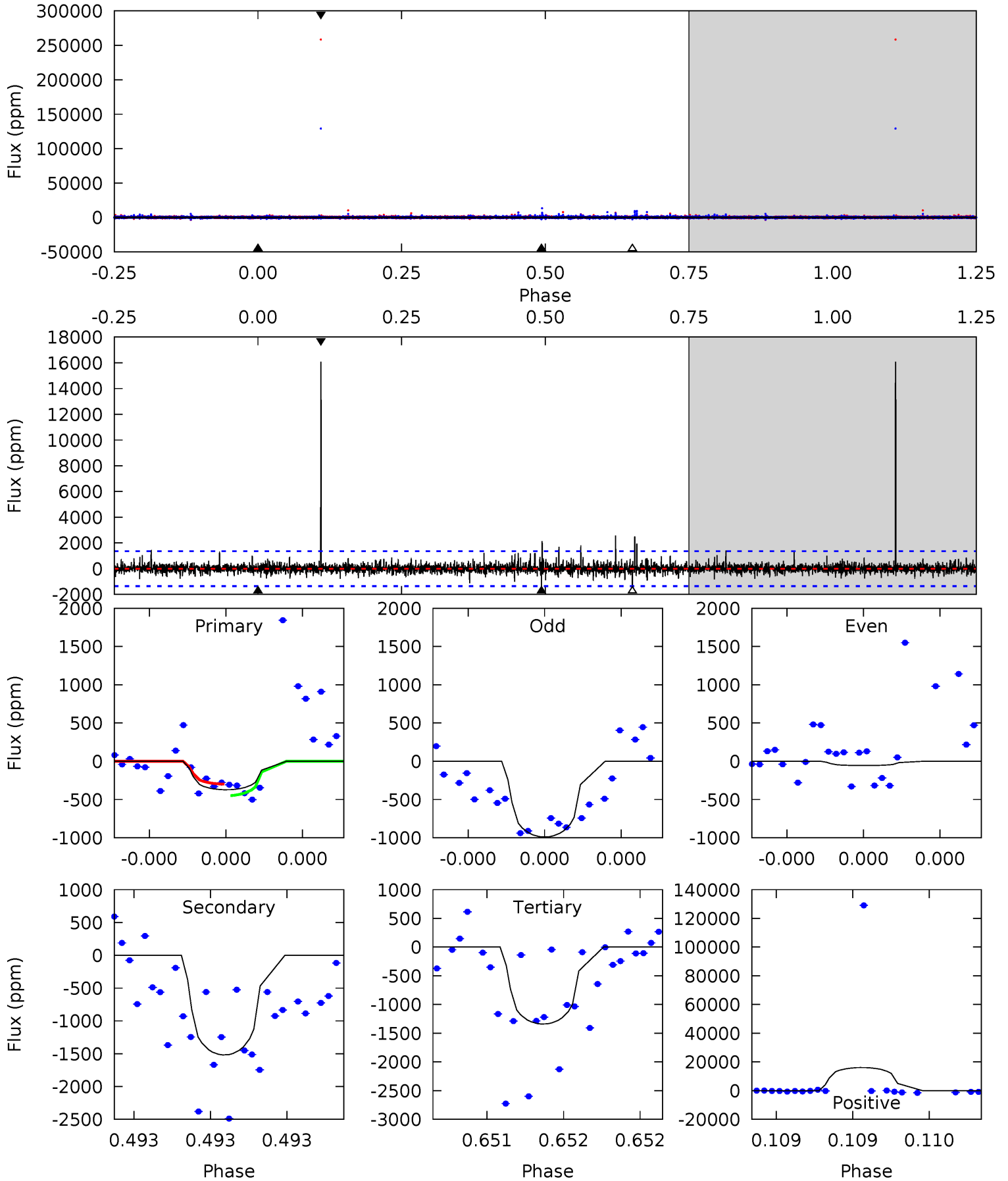
TCE 011190713-01 P=559.069013 Days $T_0=235.074042$ (BKJD)



DV Model-Shift Uniqueness Test

011190713-01, P = 559.067285 Days, E = 235.074350 Days

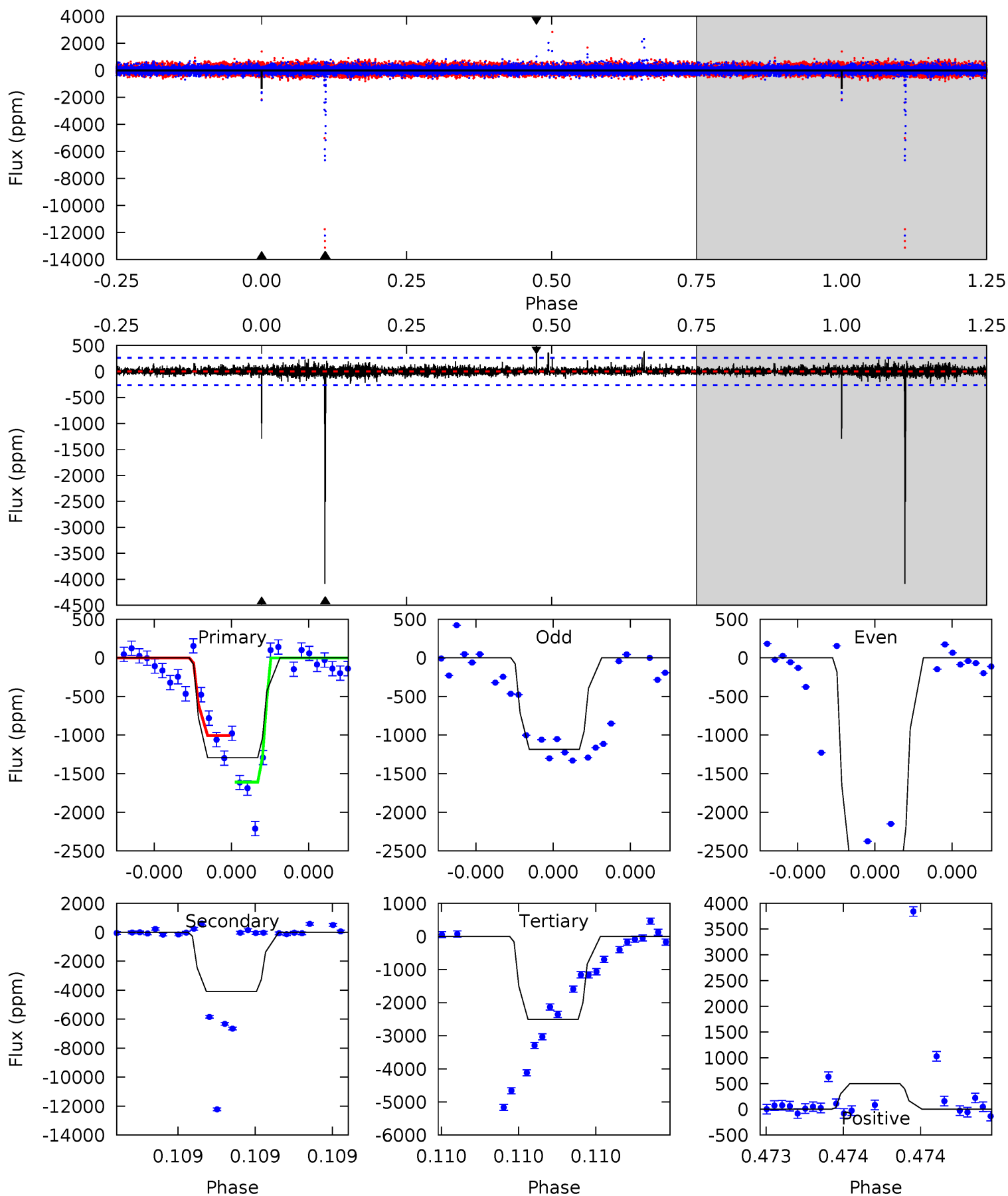
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.56	6.35	5.60	67.2	5.68	3.64	1.44	-4.04	-65.6	0.75	-60.8	0.75	1.65	0.91	0.33



Alt Model-Shift Uniqueness Test

011190713-01, P = 559.069013 Days, E = 235.074042 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.9	88.3	54.2	10.8	5.66	3.61	1.14	-26.2	17.2	34.1	77.5	15.6	1.60	0.11	6.61



Stellar Parameters For KIC 011190713

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4637^{+138}_{-152}	$4.726^{+0.052}_{-0.024}$	$-1.320^{+0.300}_{-0.300}$	$0.522^{+0.028}_{-0.035}$	$0.528^{+0.035}_{-0.026}$	$5.231^{+1.032}_{-0.592}$
	+3%/-3%	+1%/-1%	+23%/-23%	+5%/-7%	+7%/-5%	+20%/-11%
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 011190713-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1519 ± 239	$9.30^{+10.32}_{-6.52}$	198^{+7}_{-7}	2902^{+1342}_{-532}	$11759^{+113950}_{-9342}$
Alt.	-4082 ± 46	$9.58^{+10.14}_{-6.74}$	198^{+7}_{-7}	3319^{+1812}_{-627}	$28967^{+293997}_{-22197}$

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

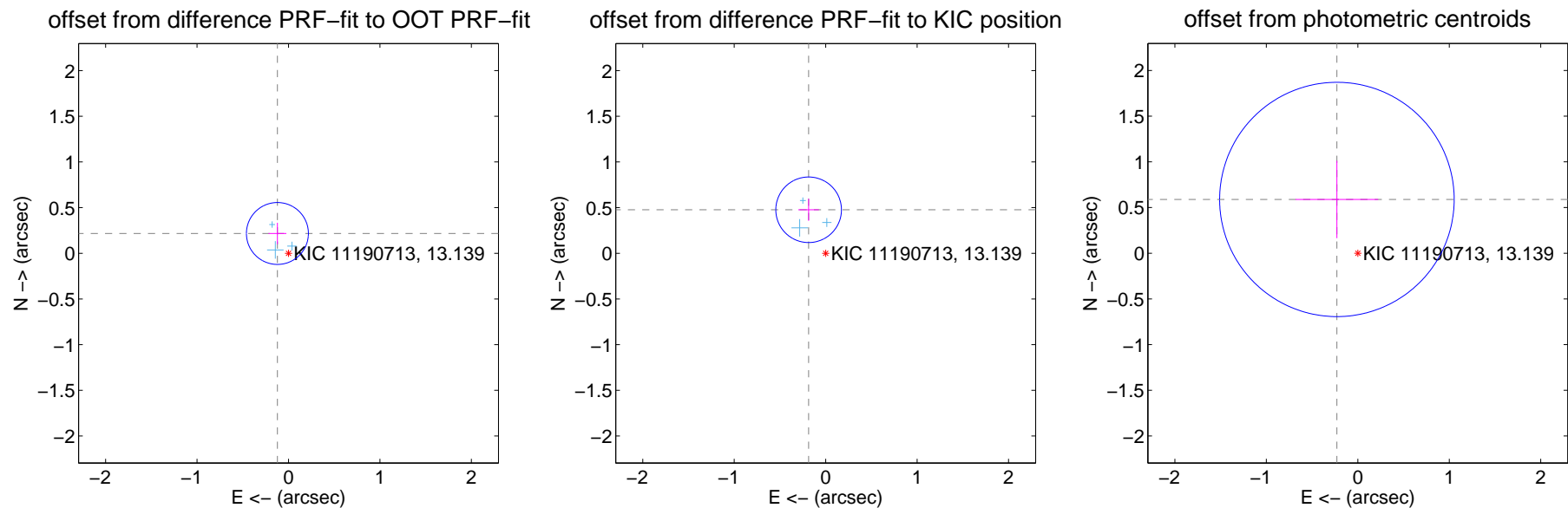
DV Centroid Data

Supplemental centroid analysis for 011190713-01. Kepler magnitude: 13.14. Transit SNR 6.97

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.28 arcsec

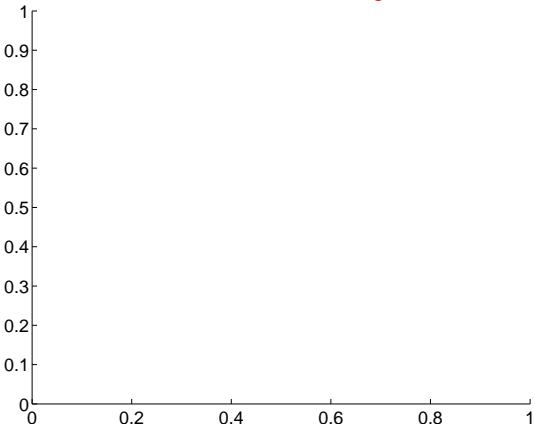
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.248 ± 0.113	2.20	0.121 ± 0.098	0.217 ± 0.117
PRF-fit source offset from KIC position	0.511 ± 0.120	4.28	0.186 ± 0.113	0.476 ± 0.121
photometric centroid source offset	0.63 ± 0.43	1.48	0.23 ± 0.45	0.59 ± 0.42



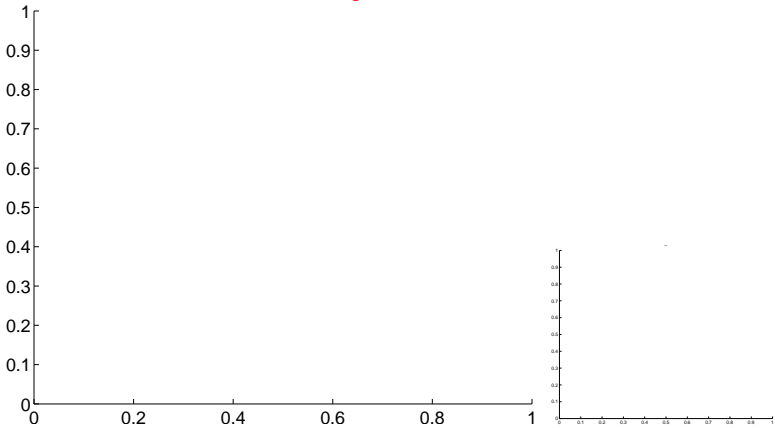
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

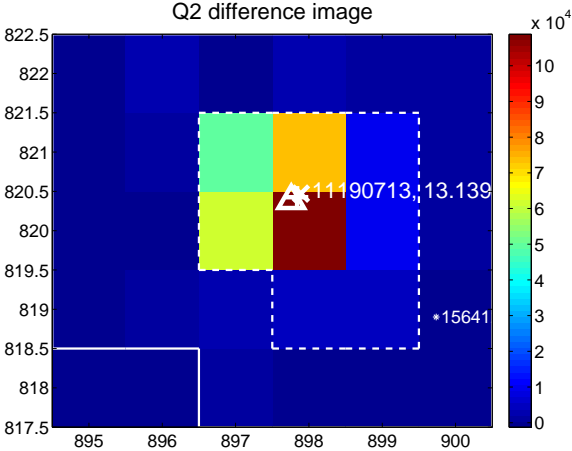
Q1 no difference image



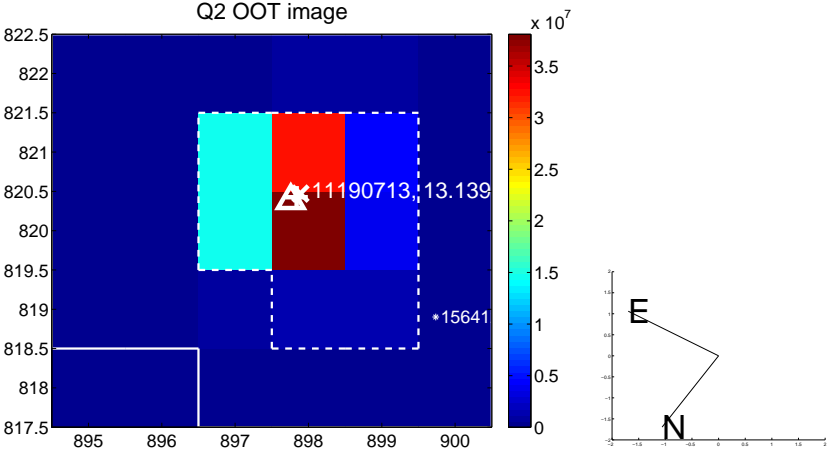
Q1 no OOT image



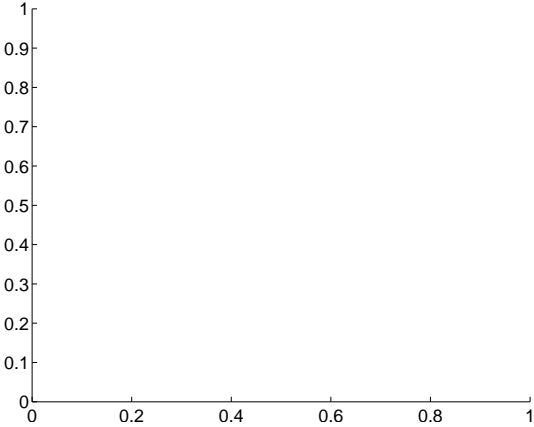
Q2 difference image



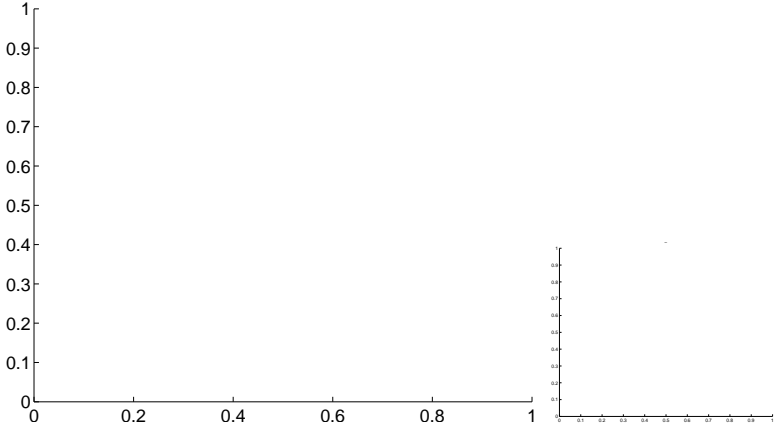
Q2 OOT image



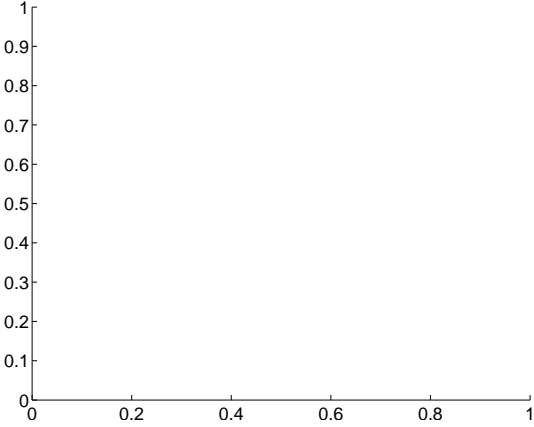
Q3 no difference image



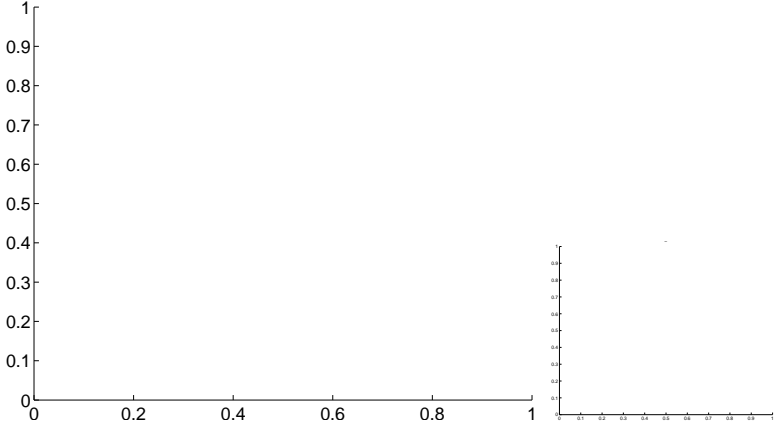
Q3 no OOT image



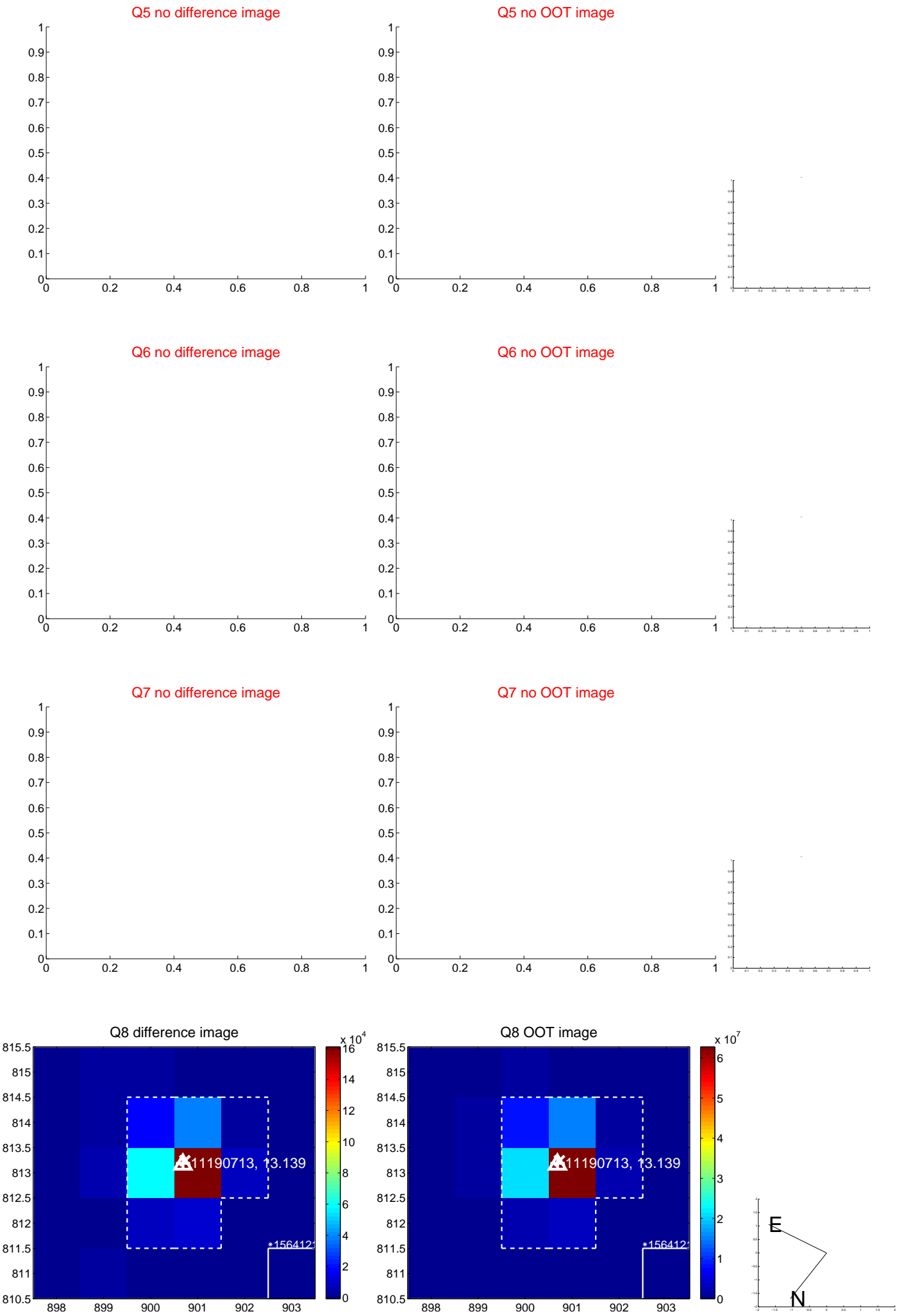
Q4 no difference image



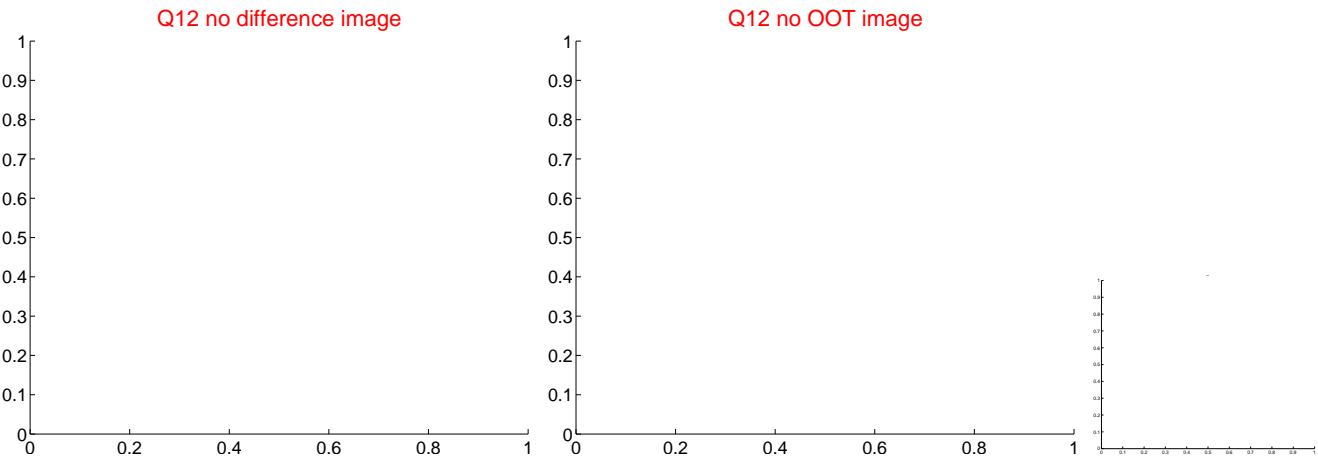
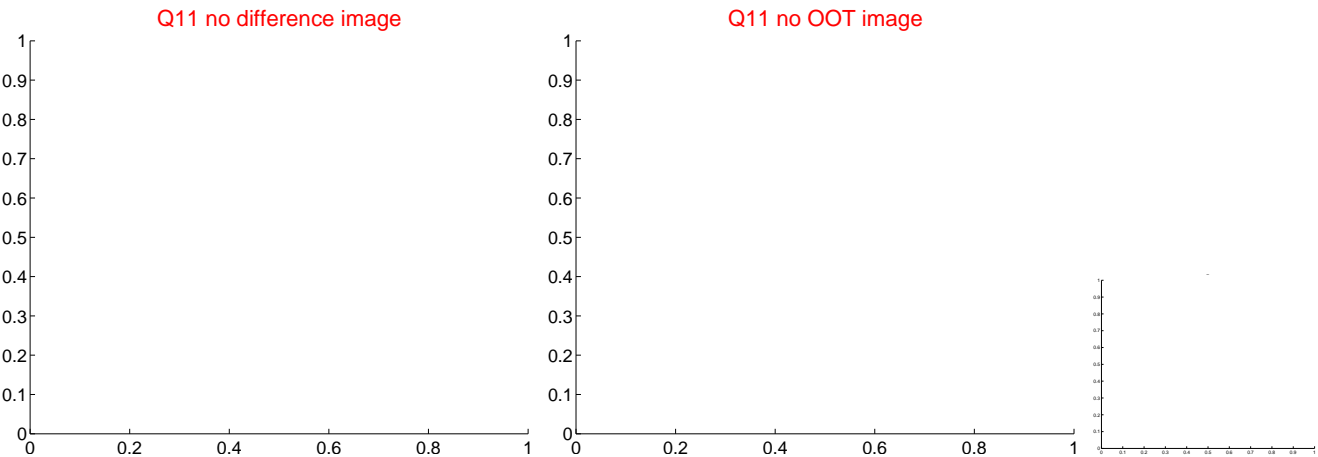
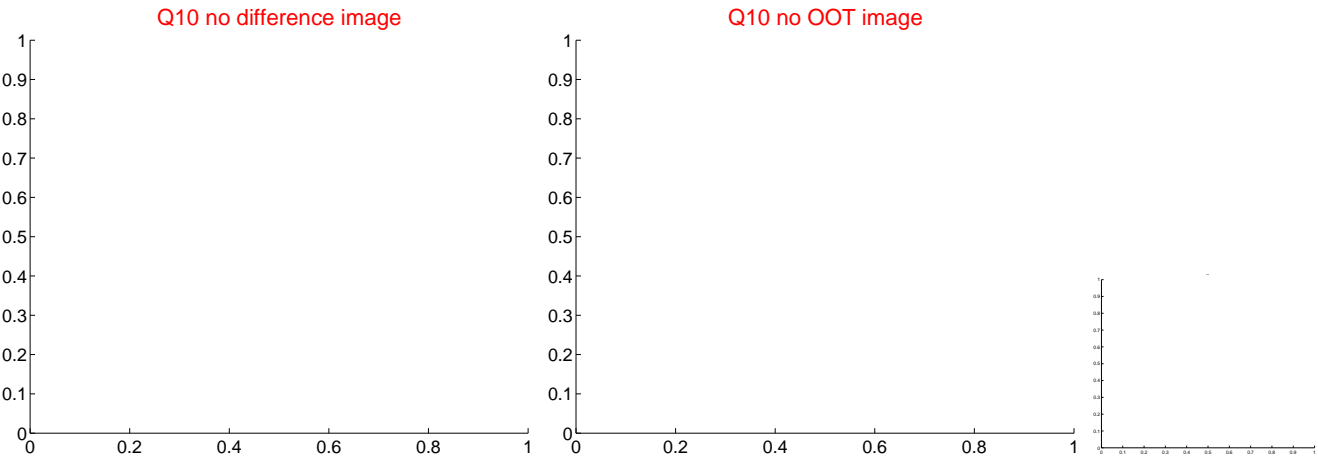
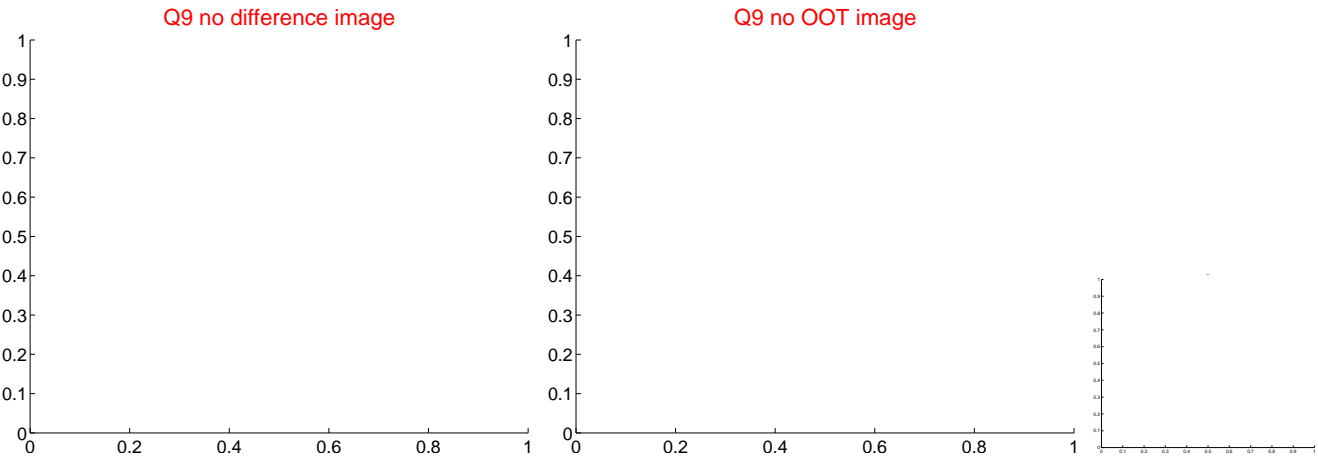
Q4 no OOT image



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

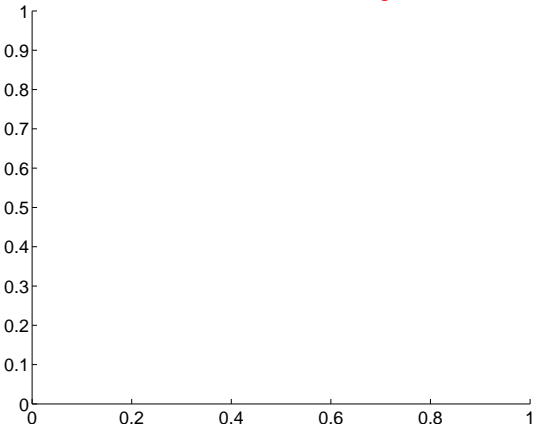


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

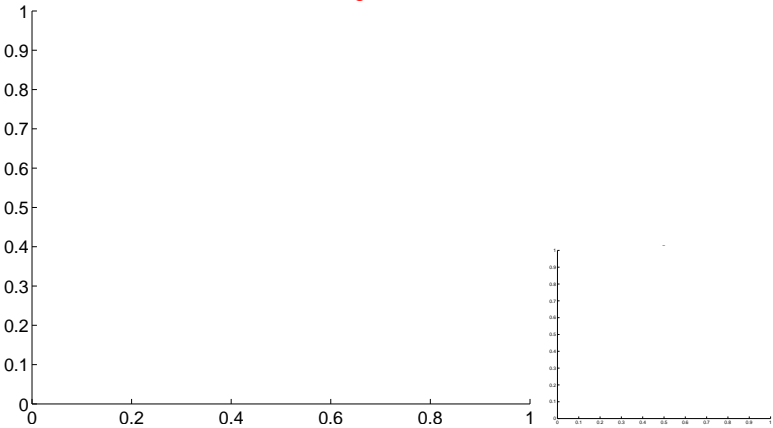


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

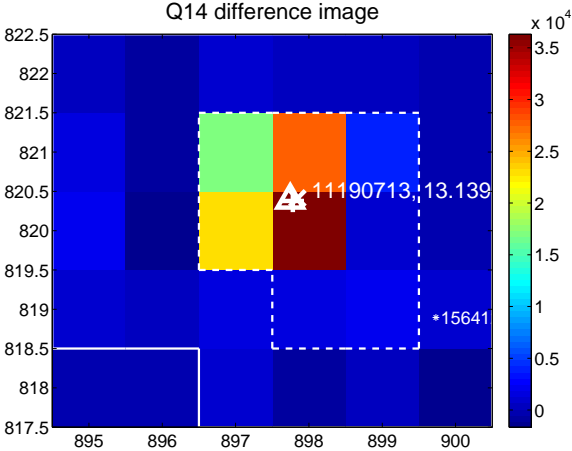
Q13 no difference image



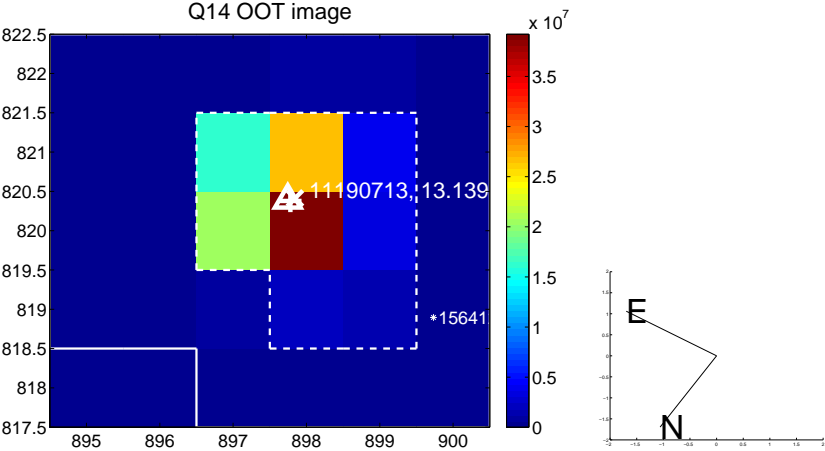
Q13 no OOT image



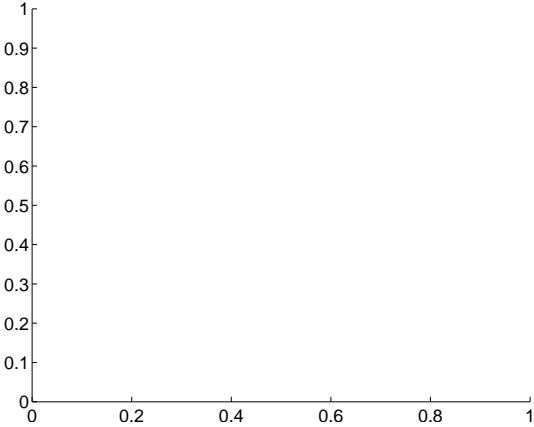
Q14 difference image



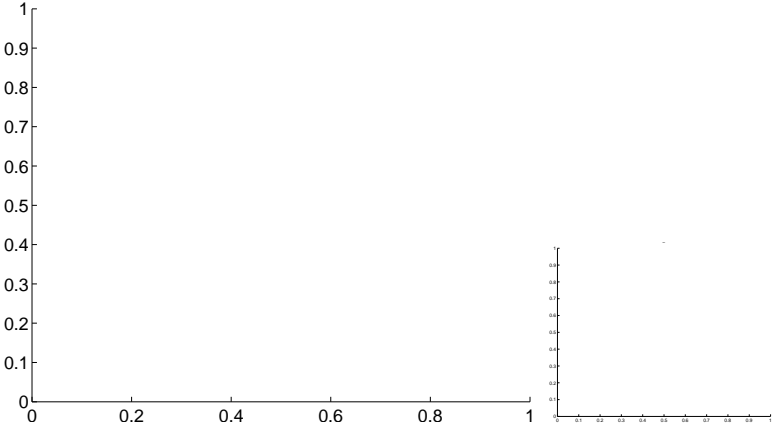
Q14 OOT image



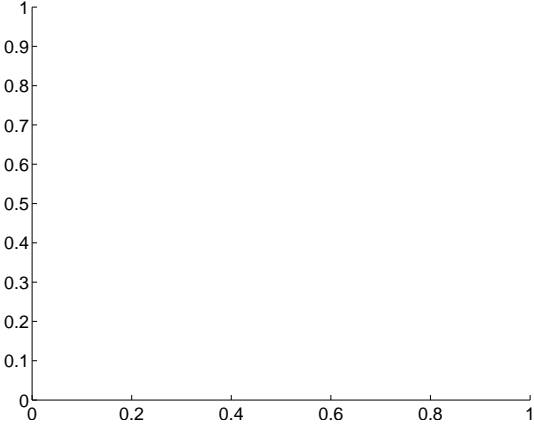
Q15 no difference image



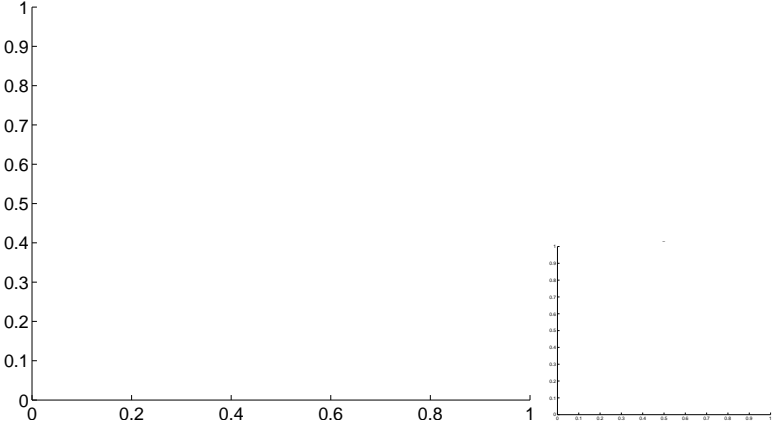
Q15 no OOT image



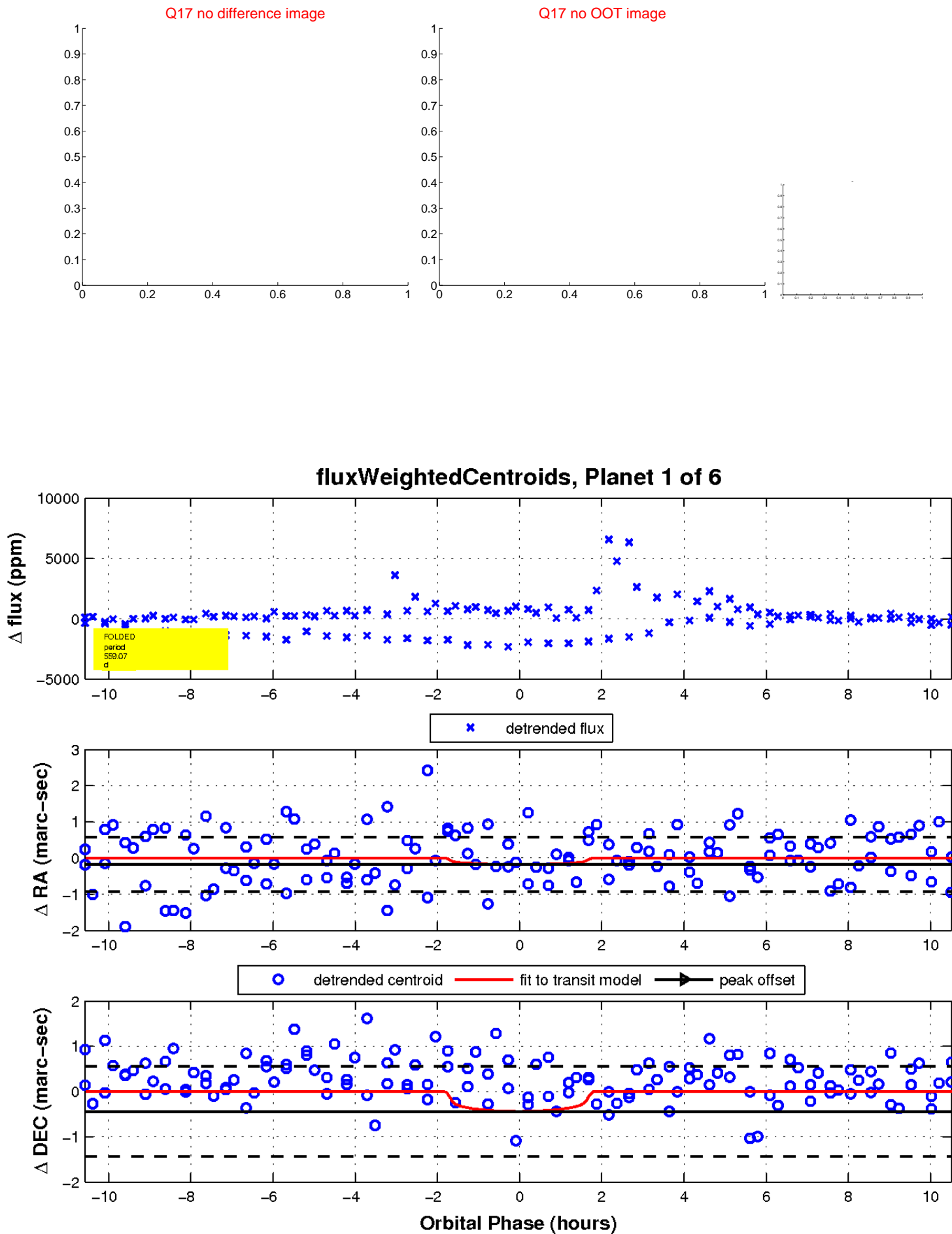
Q16 no difference image



Q16 no OOT image

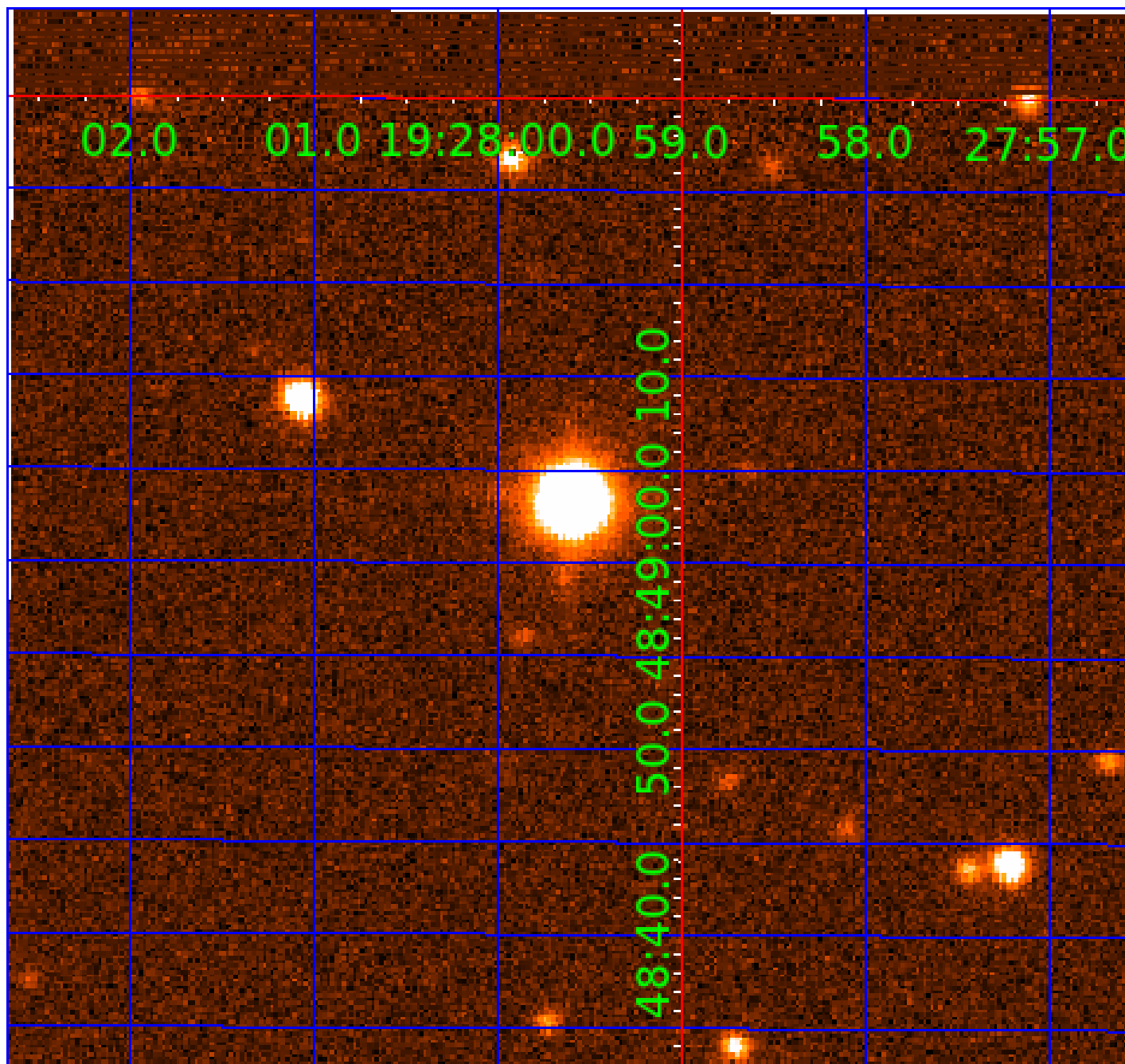


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011190713

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
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011190713-06	OBS	No	486.849363	266.926009	1396.7	5.272	18.2	8.2	0.52	4637	2.04	0.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011190713-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—INCONSISTENT_TRANS
011190713-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011190713-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—HALO_GHOST
011190713-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_SKYE_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011190713-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

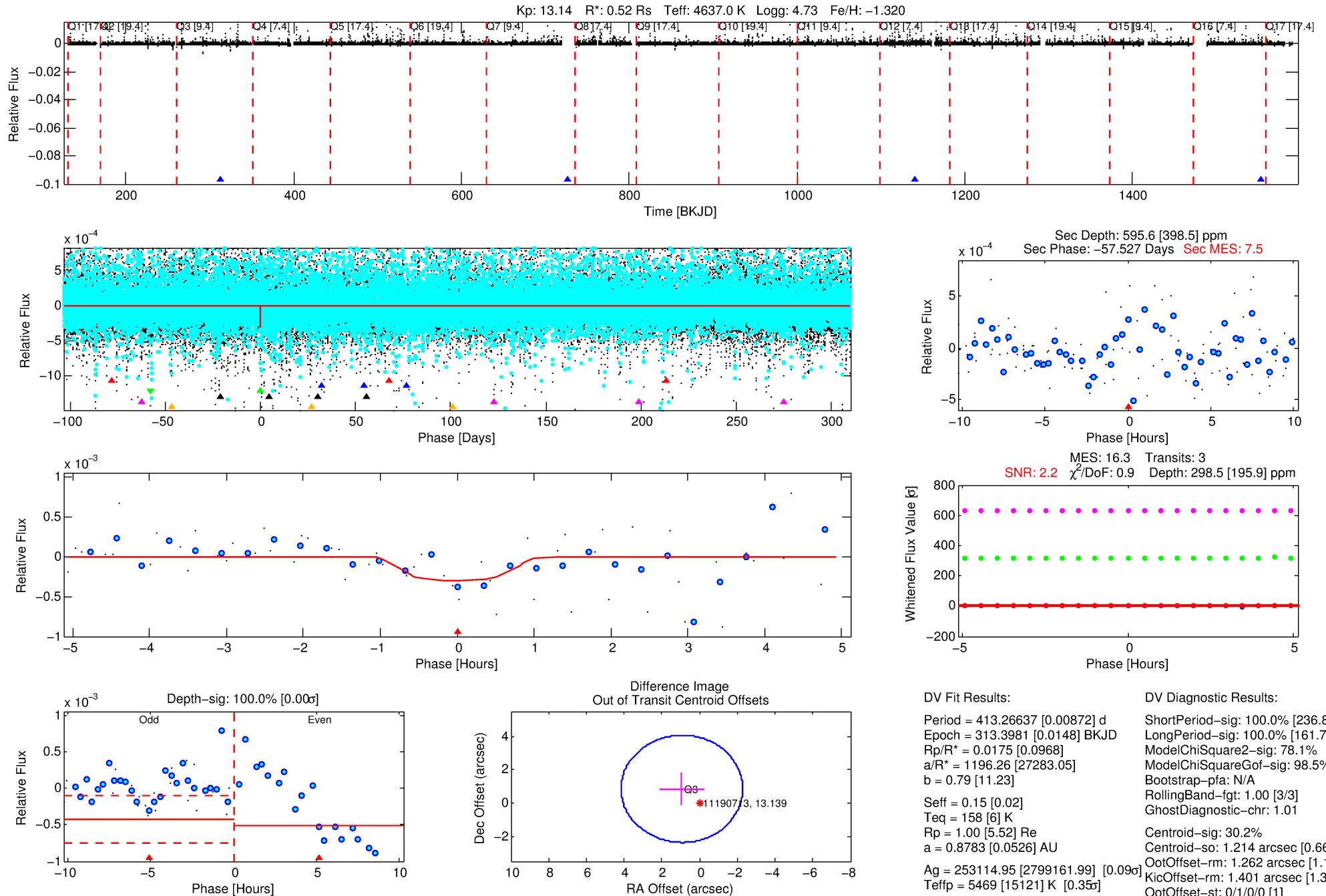
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011190713-03

No Significant Match Found

DV One-Page Summary

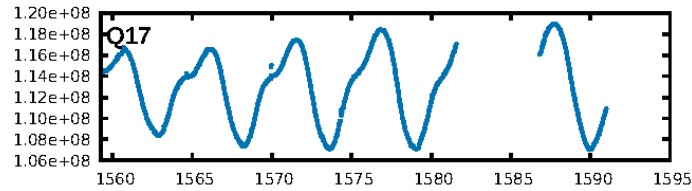
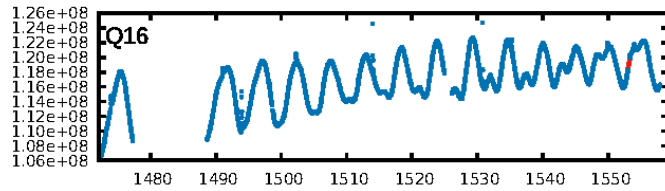
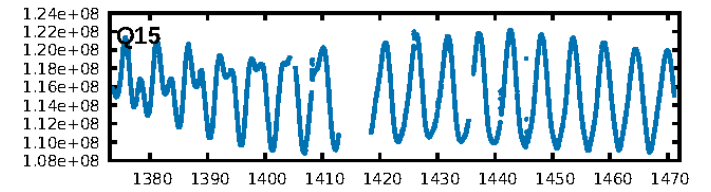
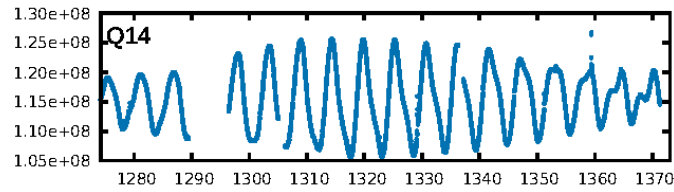
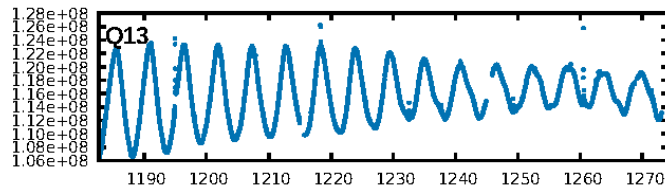
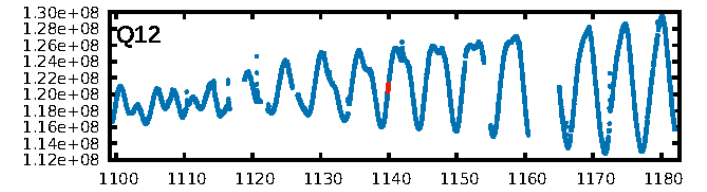
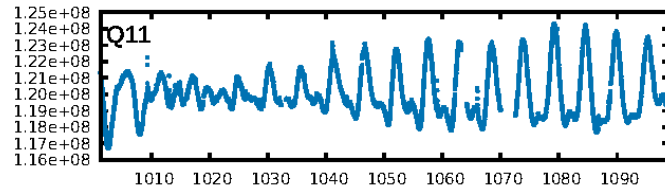
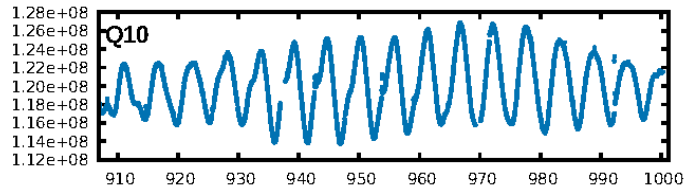
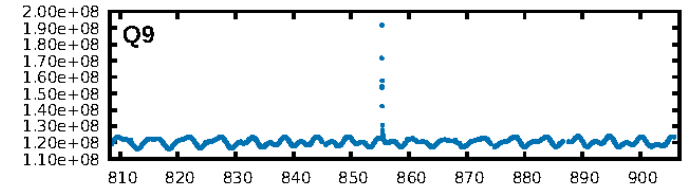
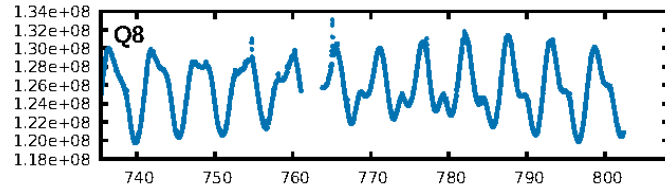
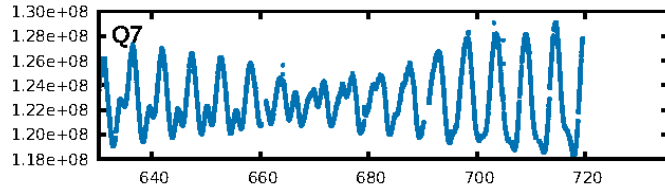
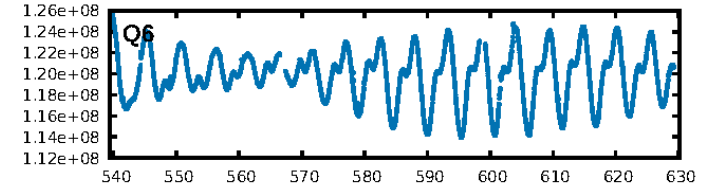
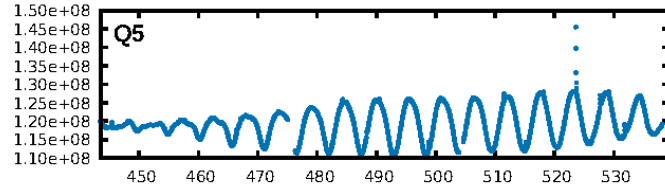
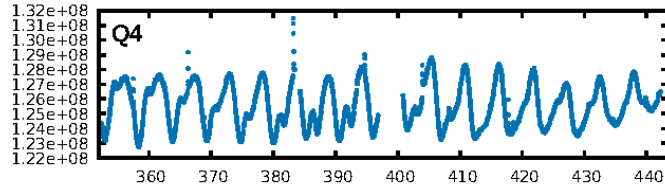
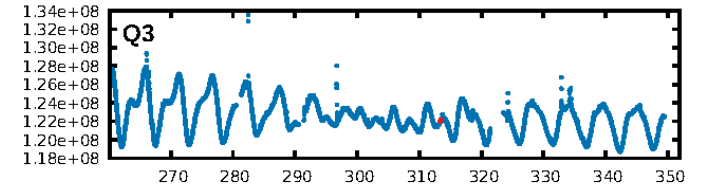
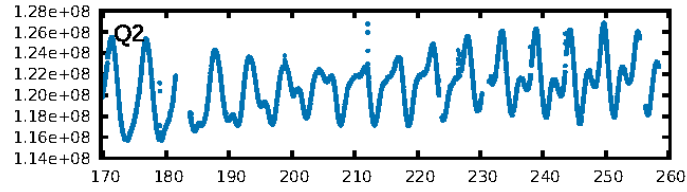
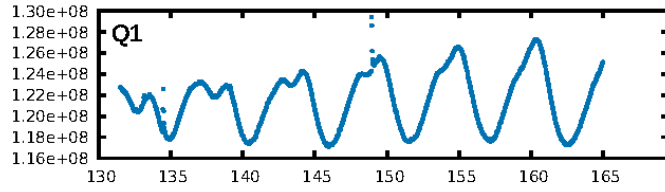
KIC: 11190713 Candidate: 3 of 6 Period: 413.266 d



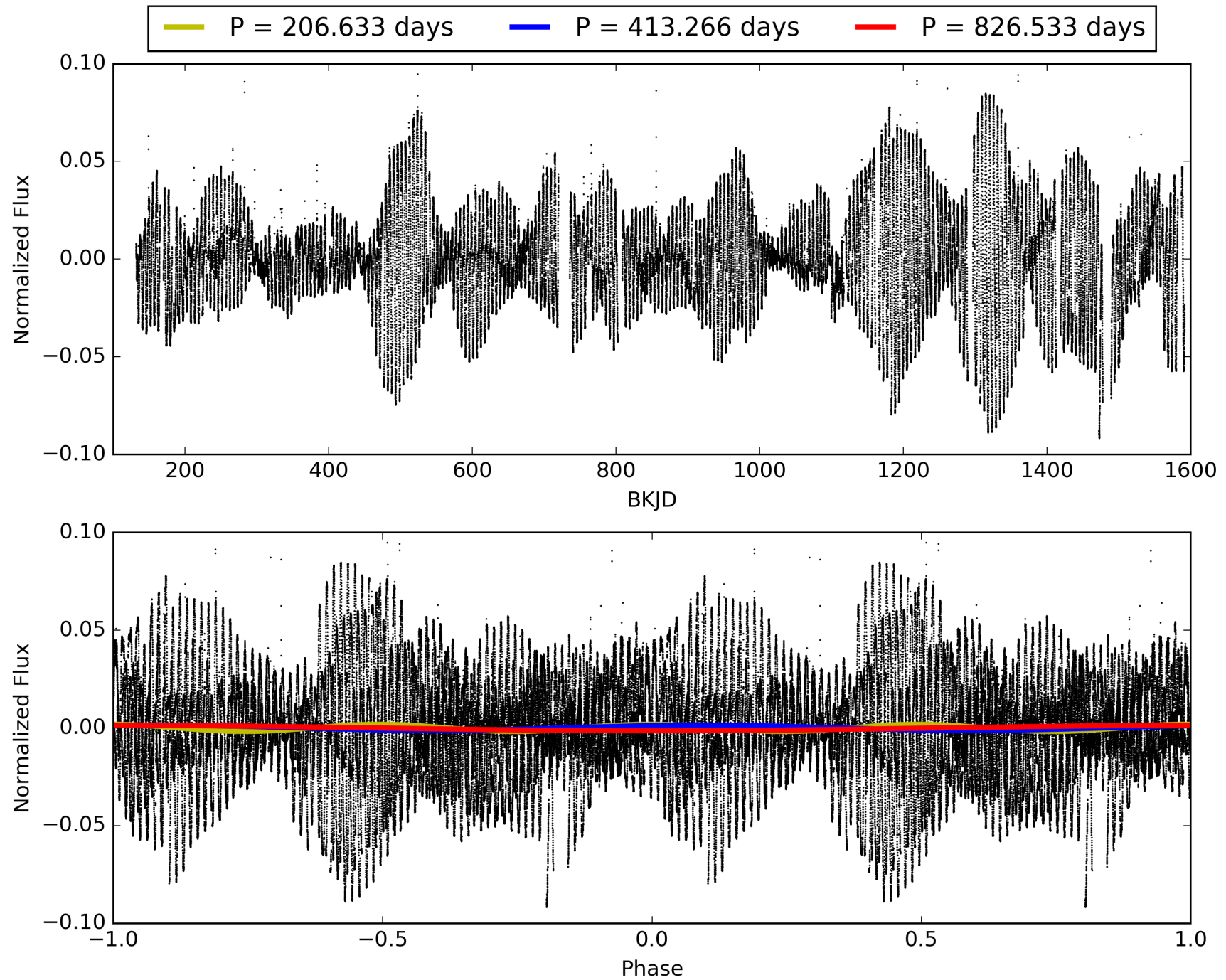
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 06:29:00 Z

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

TCE 011190713-03, PDC Light Curves

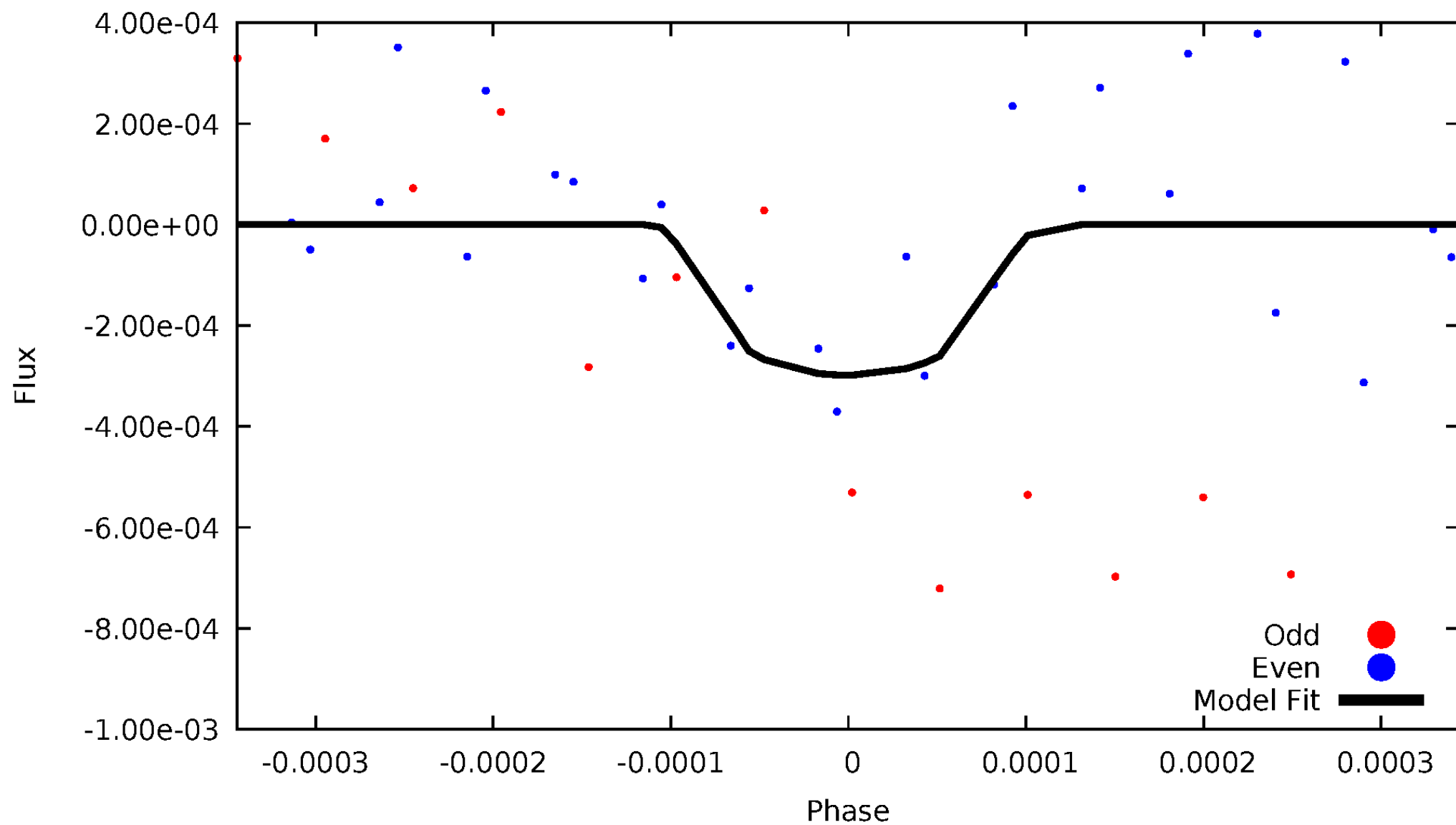


TCE 011190713-03



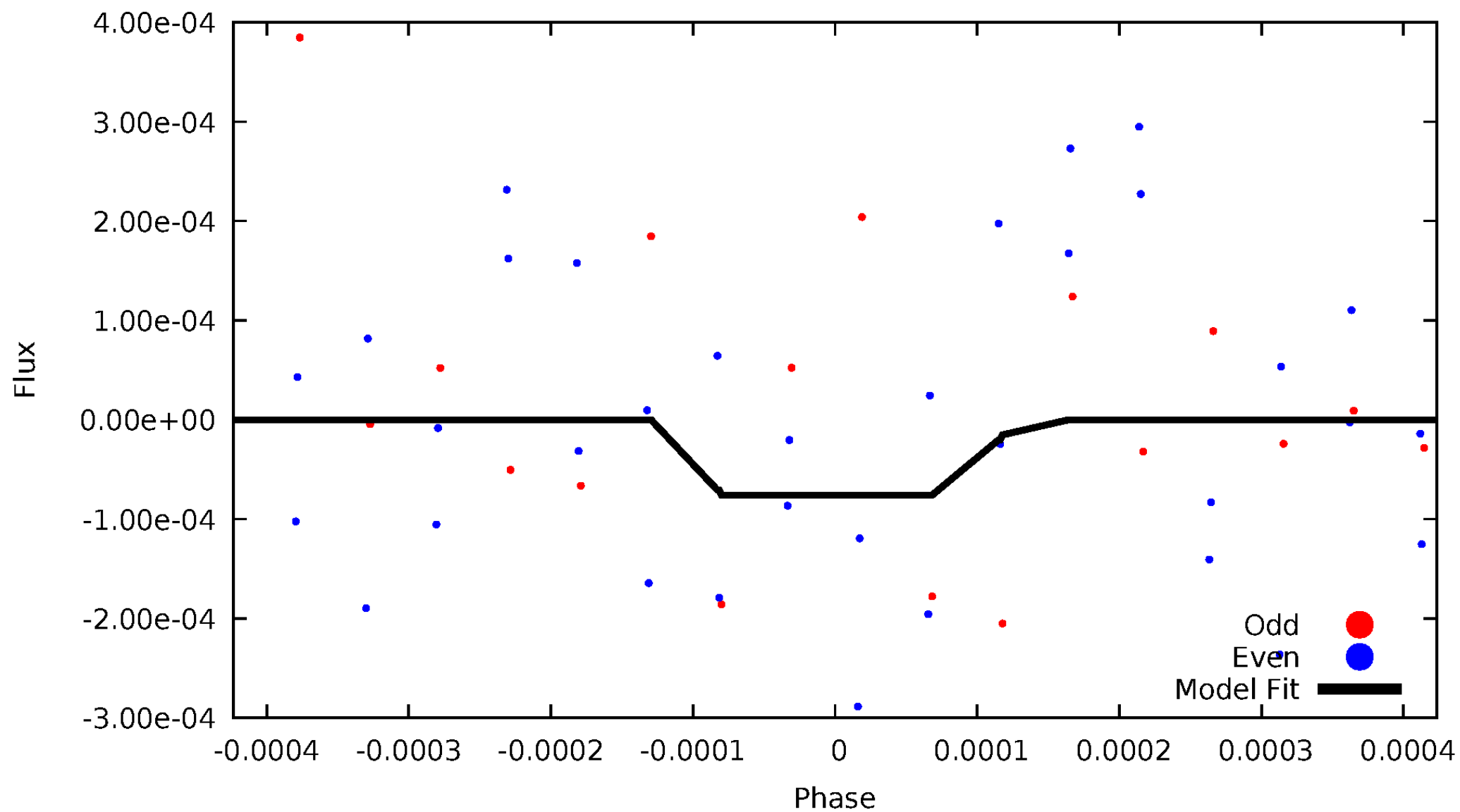
DV Odd/Even

TCE 011190713-03



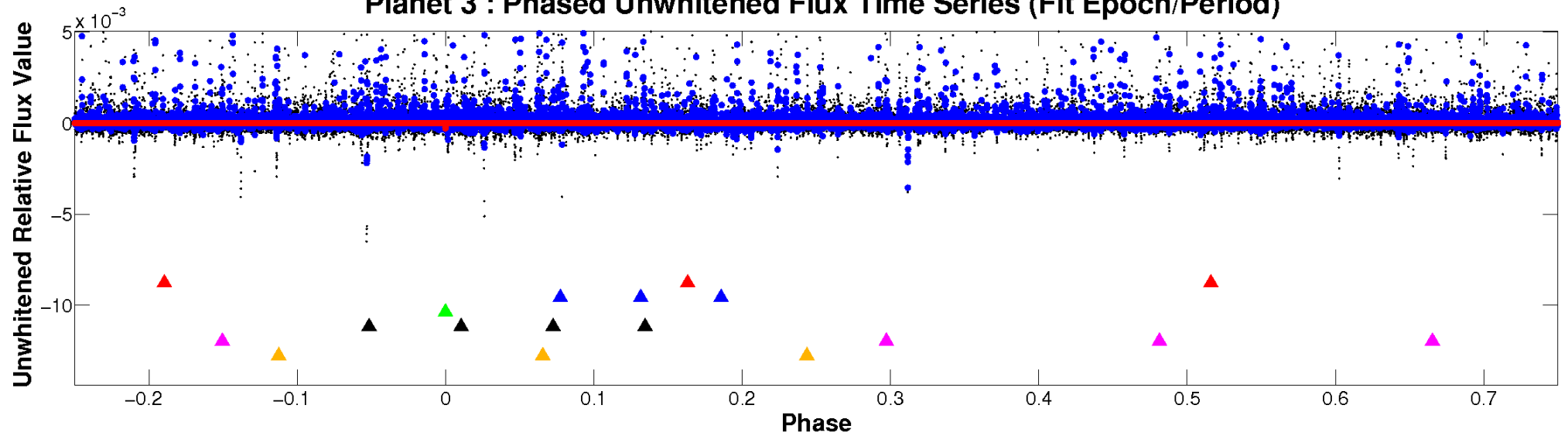
ALT Odd/Even

TCE 011190713-03

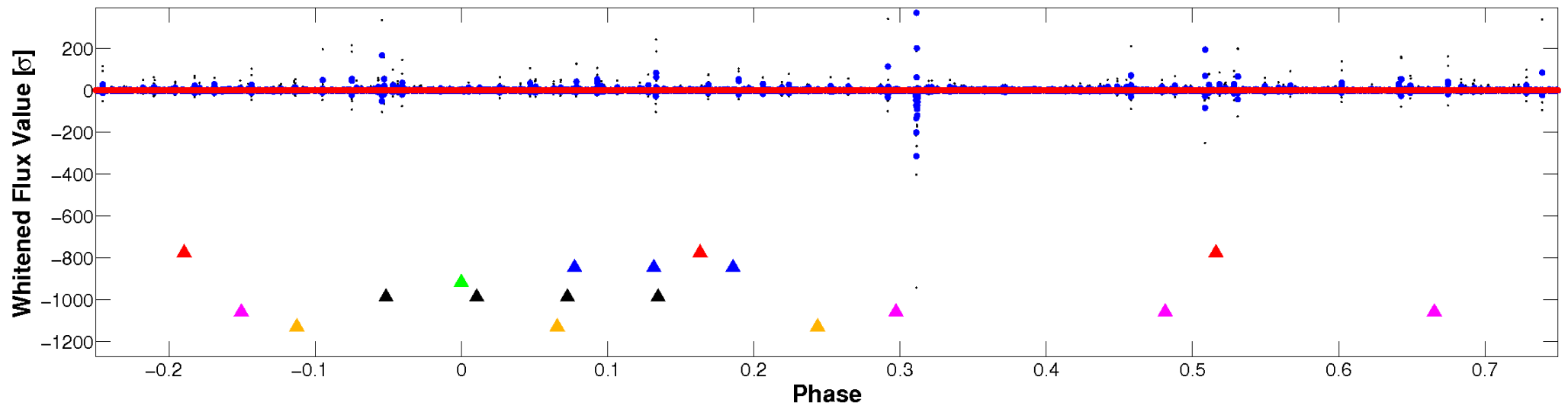


Non-Whitened Vs. Whitened Light Curve

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

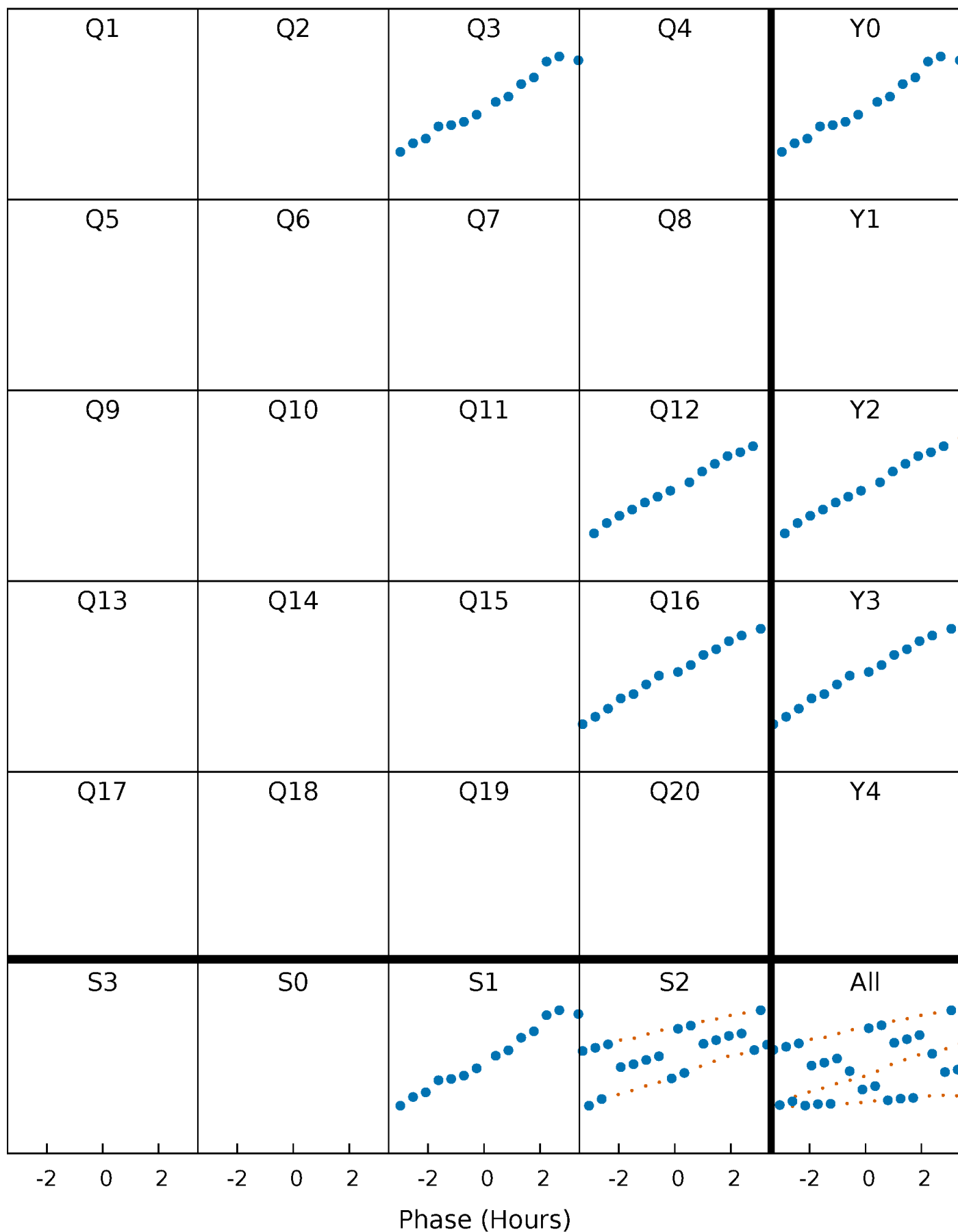


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



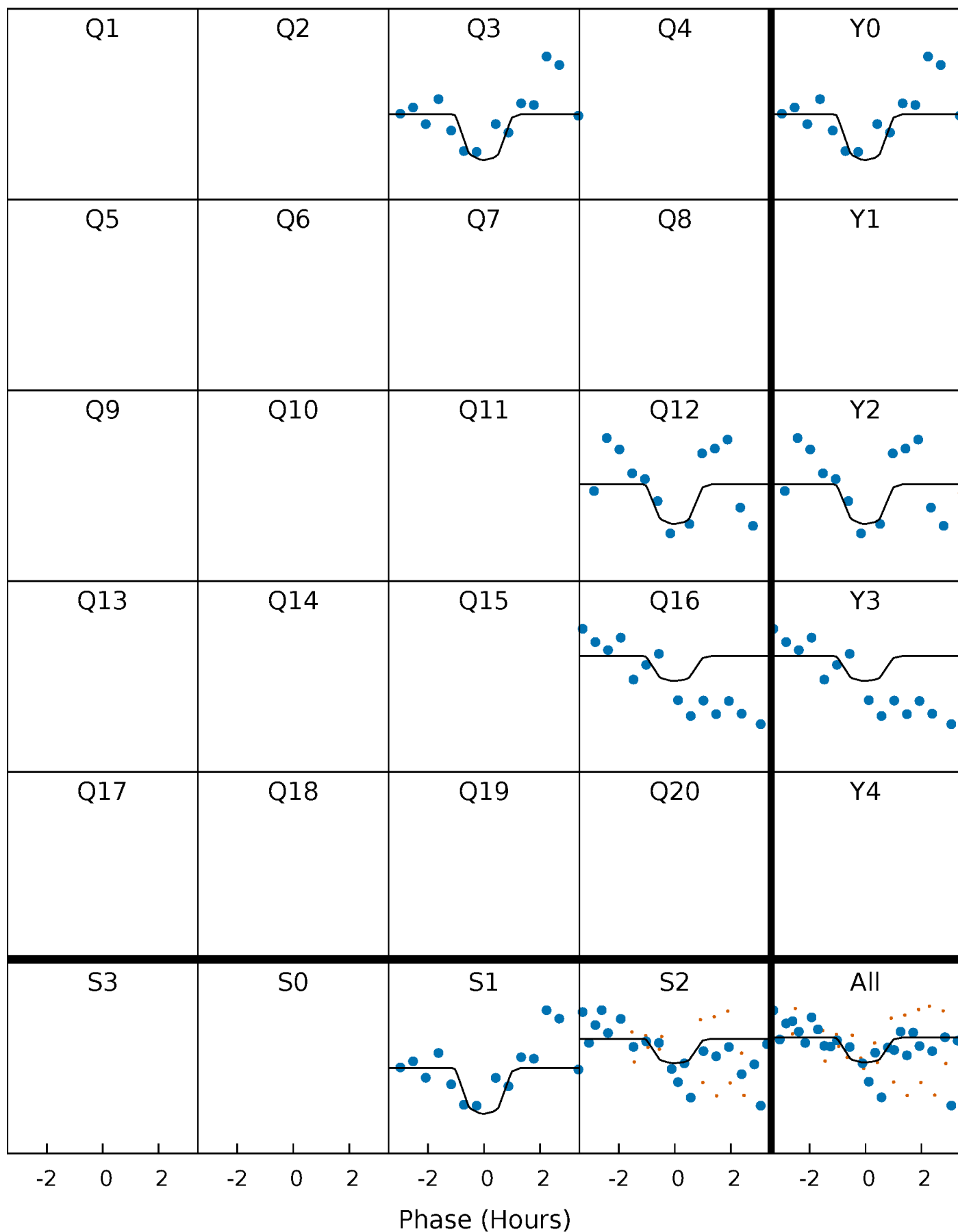
PDC Quarter-Phased Transit Curves

TCE 011190713-03 P=413.266372 Days $T_0=313.398125$ (BKJD)



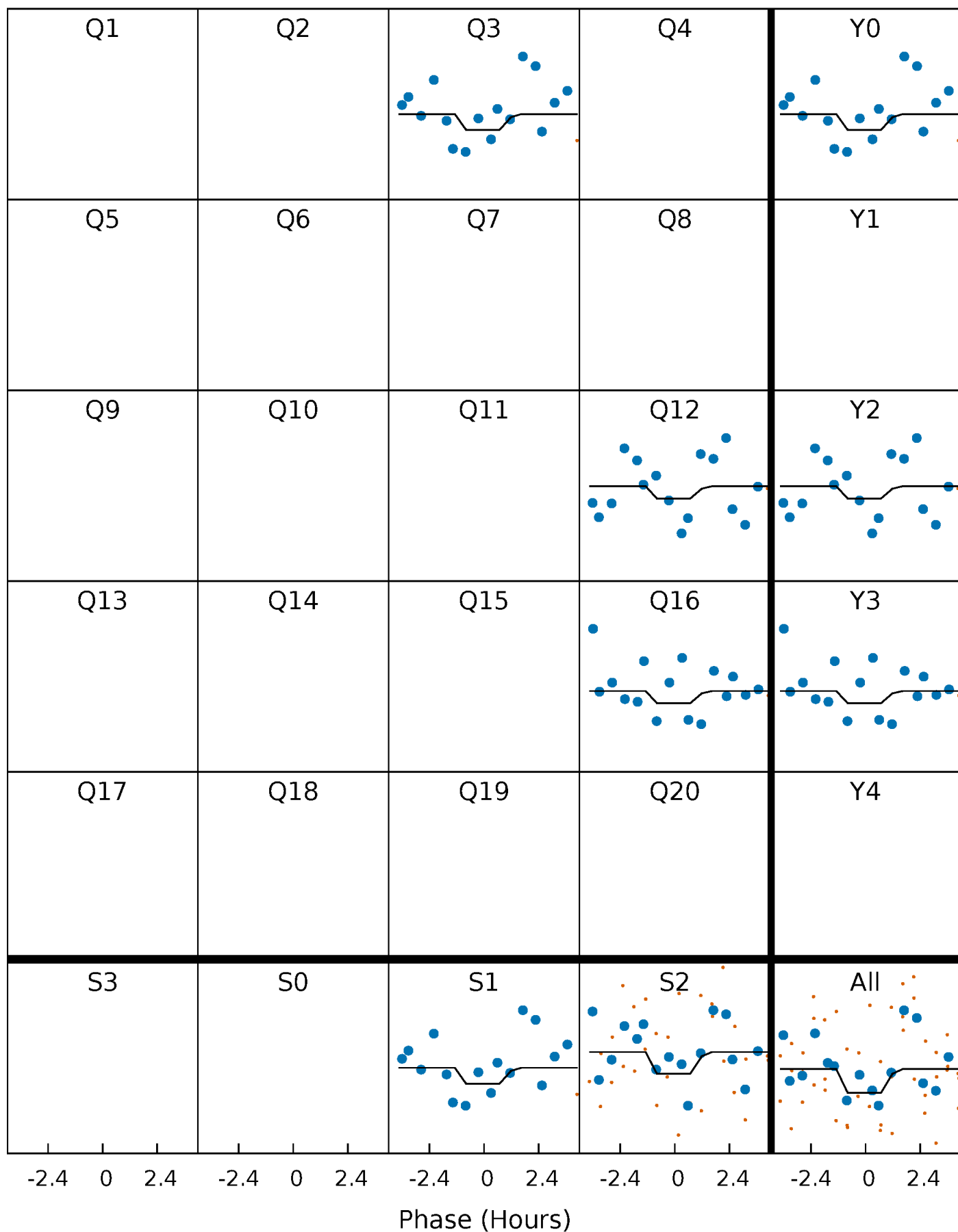
DV Quarter-Phased Transit Curves

TCE 011190713-03 P=413.266372 Days $T_0=313.398125$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

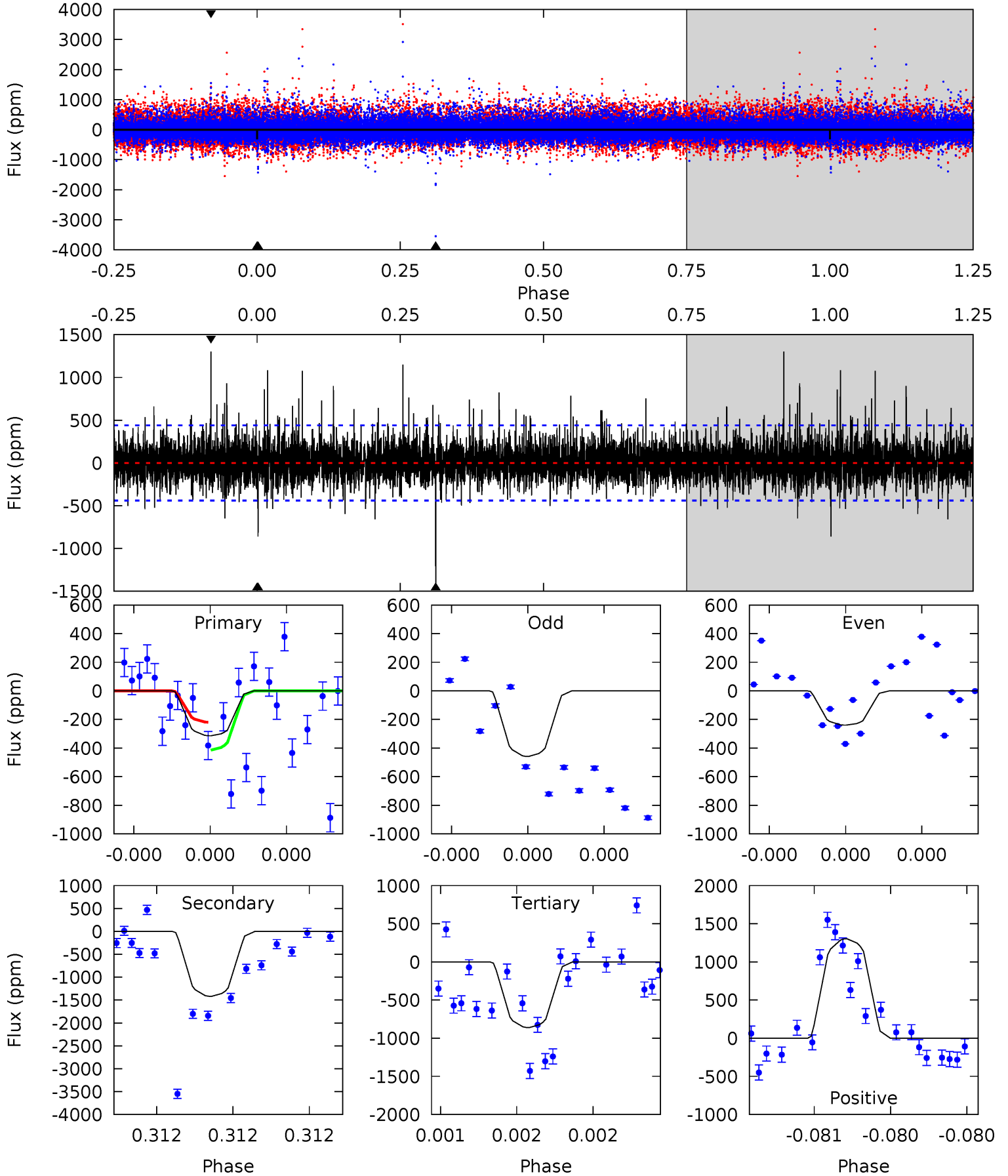
TCE 011190713-03 P=413.248317 Days $T_0=313.424904$ (BKJD)



DV Model-Shift Uniqueness Test

011190713-03, P = 413.266372 Days, E = 313.398125 Days

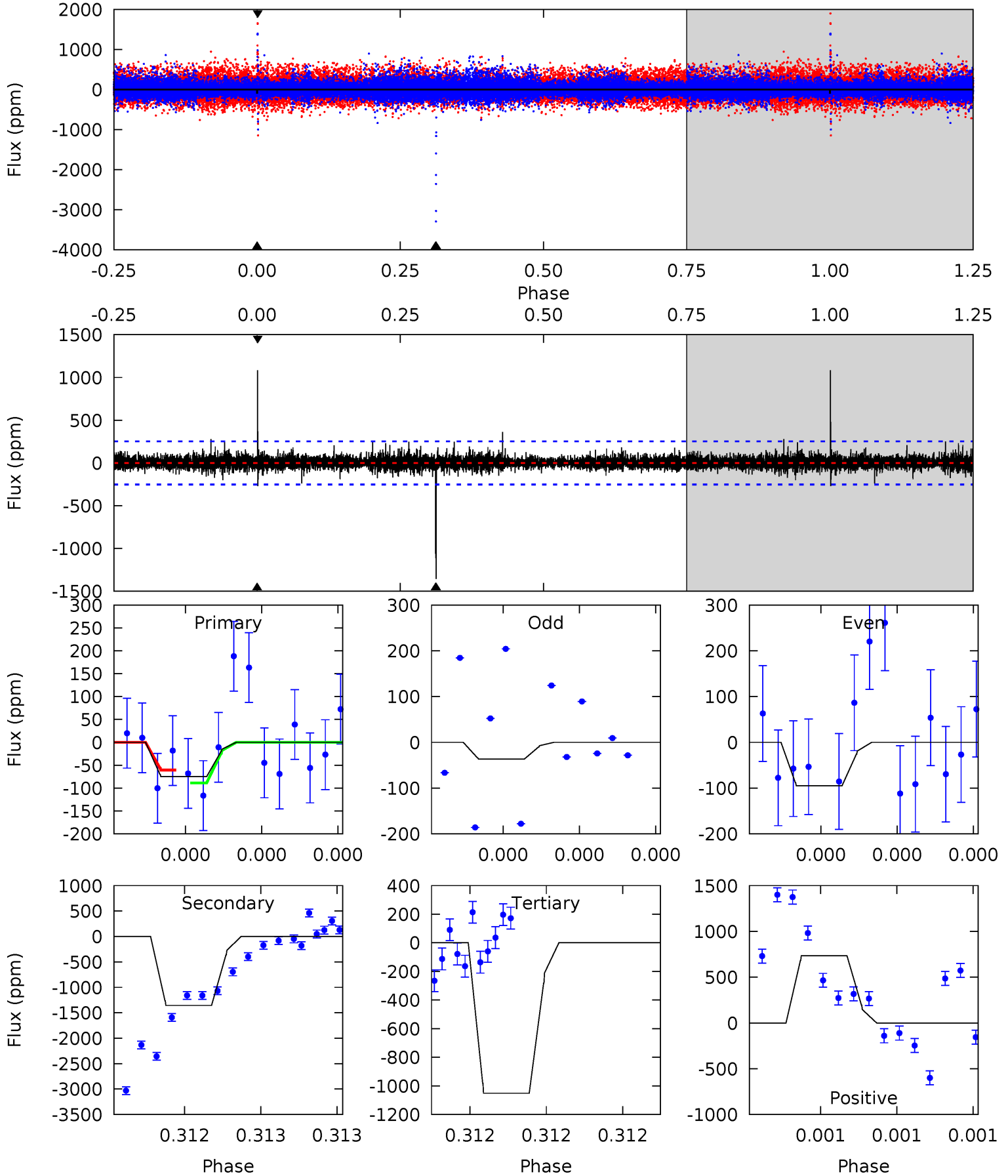
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.08	18.4	11.2	16.9	5.71	3.69	1.81	-7.10	-12.8	7.26	1.52	0.15	1.15	0.48	1.27



Alt Model-Shift Uniqueness Test

011190713-03, P = 413.248317 Days, E = 313.424904 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.70	30.6	23.7	16.5	5.69	3.67	1.02	-22.0	-14.8	6.87	14.1	0.54	1.03	0.44	0.31



Stellar Parameters For KIC 011190713

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4637^{+138}_{-152}	$4.726^{+0.052}_{-0.024}$	$-1.320^{+0.300}_{-0.300}$	$0.522^{+0.028}_{-0.035}$	$0.528^{+0.035}_{-0.026}$	$5.231^{+1.032}_{-0.592}$
	+3%/-3%	+1%/-1%	+23%/-23%	+5%/-7%	+7%/-5%	+20%/-11%
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 011190713-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1420 ± 77	$4.20^{+4.36}_{-2.90}$	220^{+7}_{-9}	3622^{+2125}_{-698}	$34221^{+328173}_{-26090}$
Alt.	-1356 ± 44	$3.71^{+4.35}_{-2.39}$	219^{+7}_{-8}	3757^{+1919}_{-786}	$42083^{+294577}_{-33080}$

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

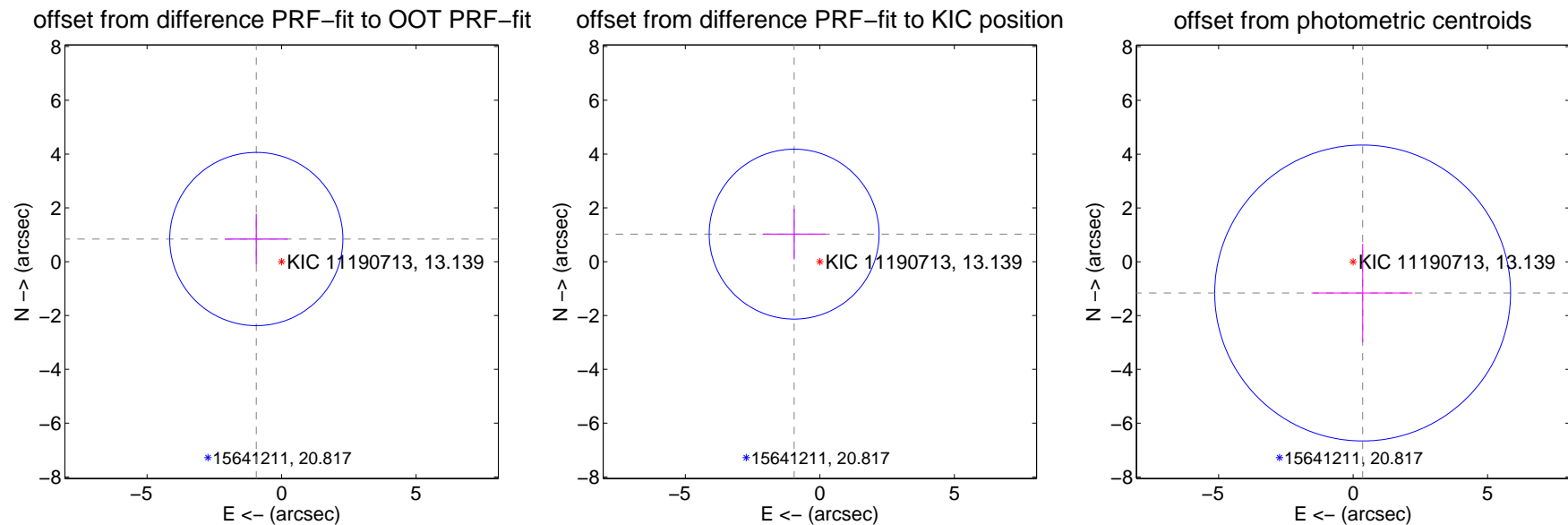
DV Centroid Data

Supplemental centroid analysis for 011190713-03. Kepler magnitude: 13.14. Transit SNR 2.21

There are 1 quarters with good PRF difference image offsets

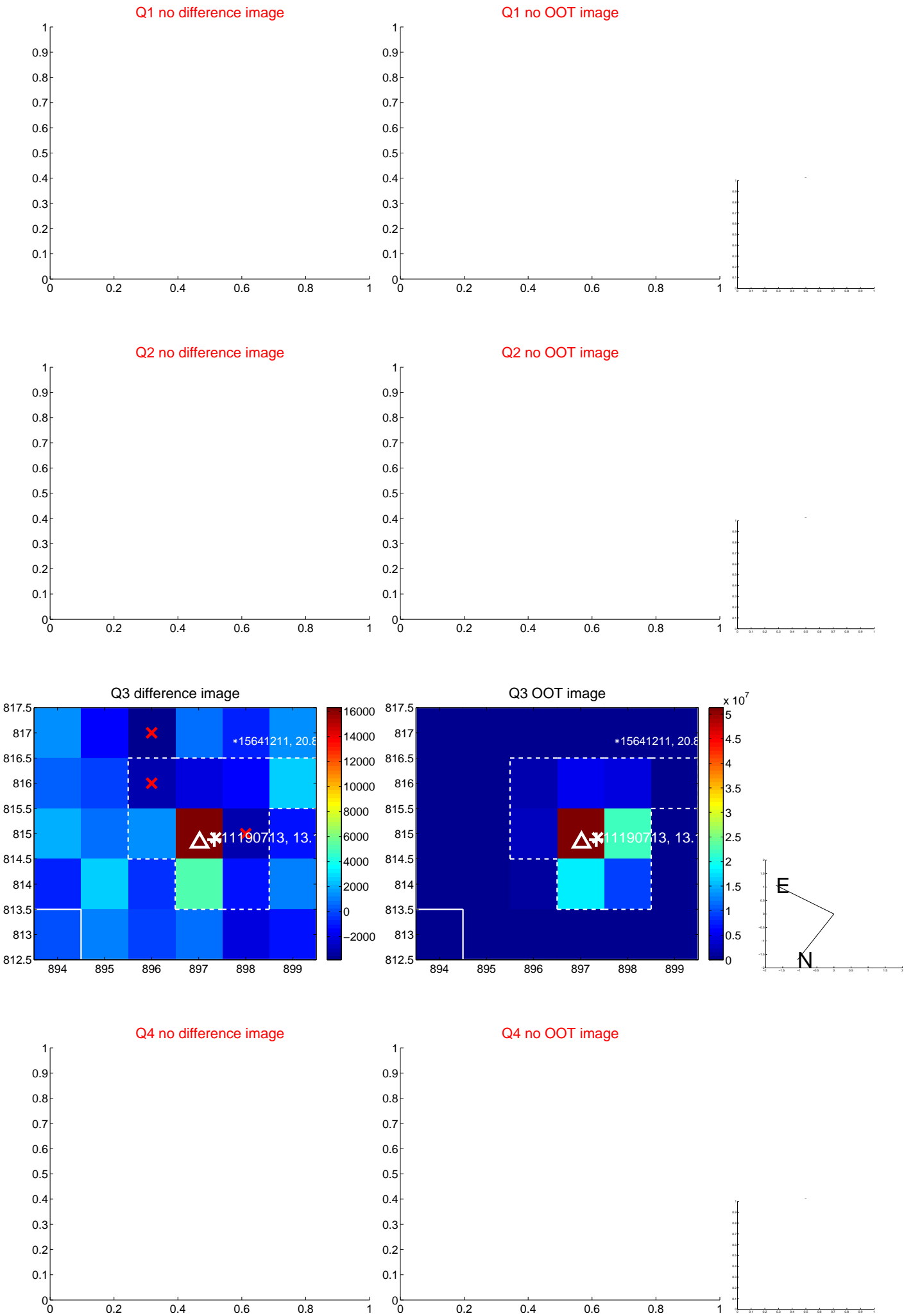
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.262 ± 1.073	1.18	0.939 ± 1.171	0.843 ± 0.938
PRF-fit source offset from KIC position	1.401 ± 1.053	1.33	0.956 ± 1.171	1.025 ± 0.938
photometric centroid source offset	1.21 ± 1.83	0.66	-0.35 ± 1.85	-1.16 ± 1.83

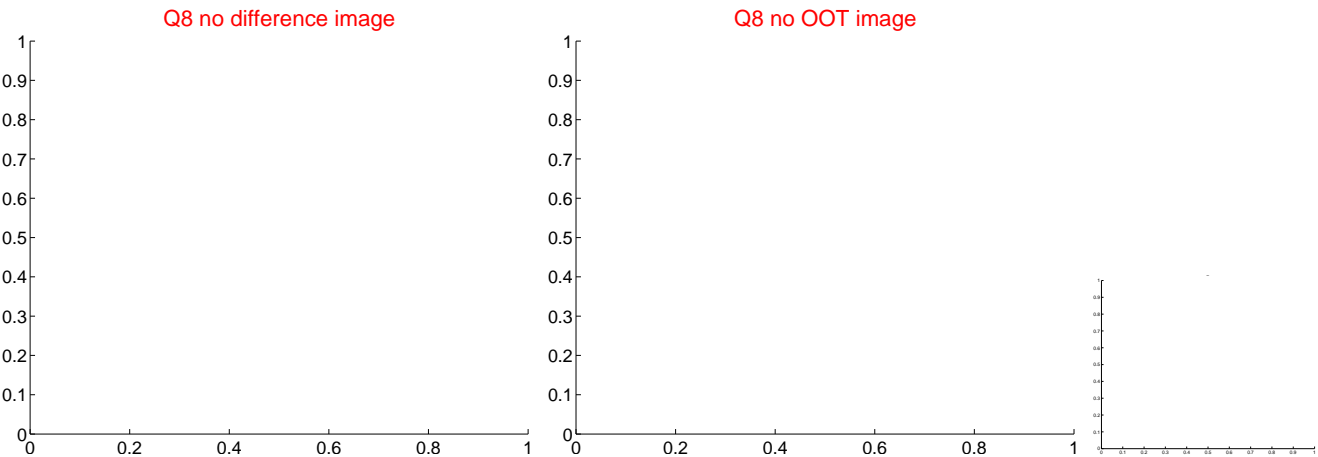
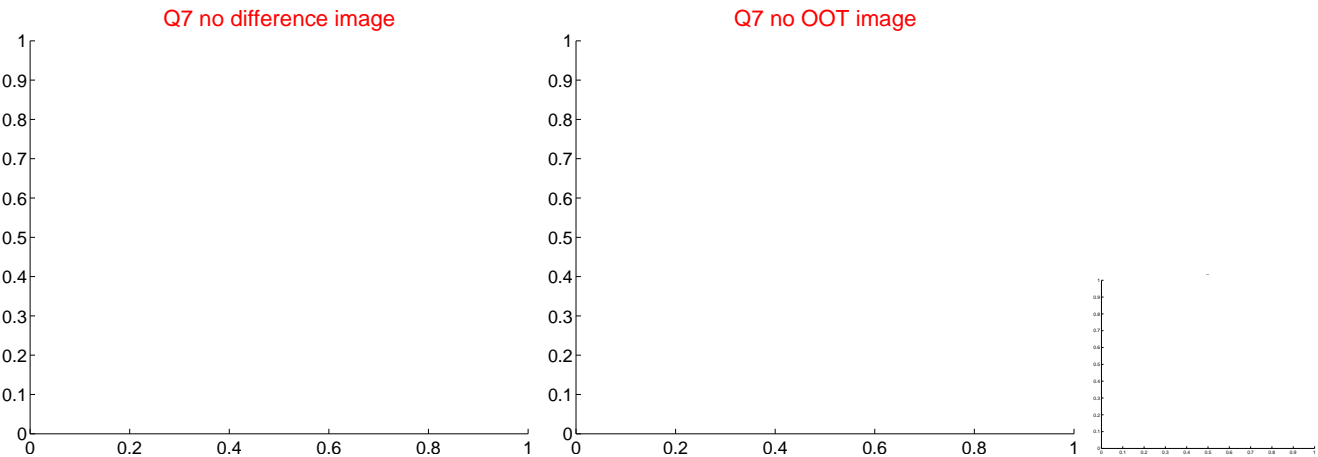
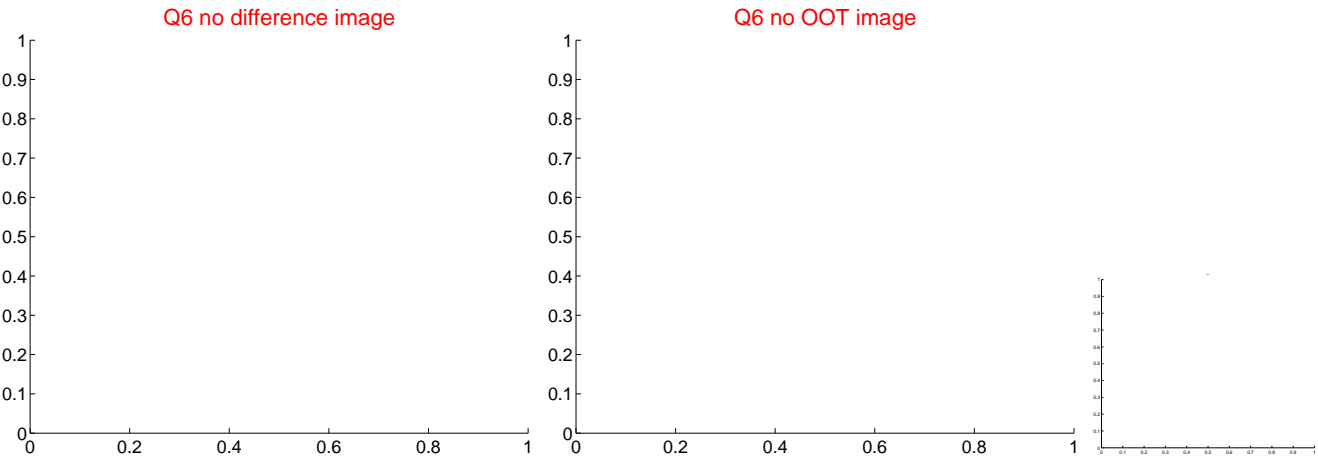
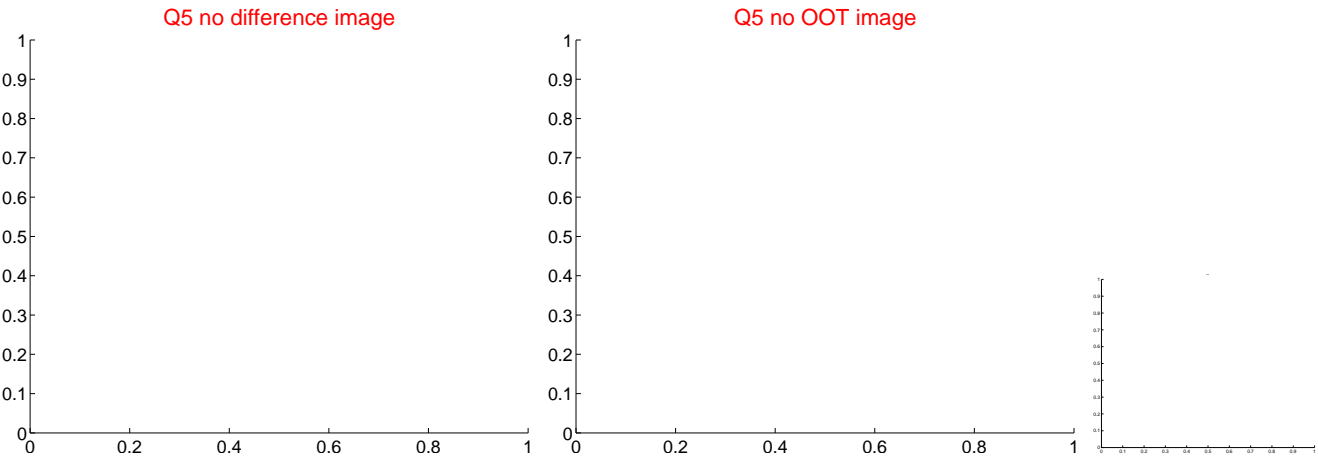


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

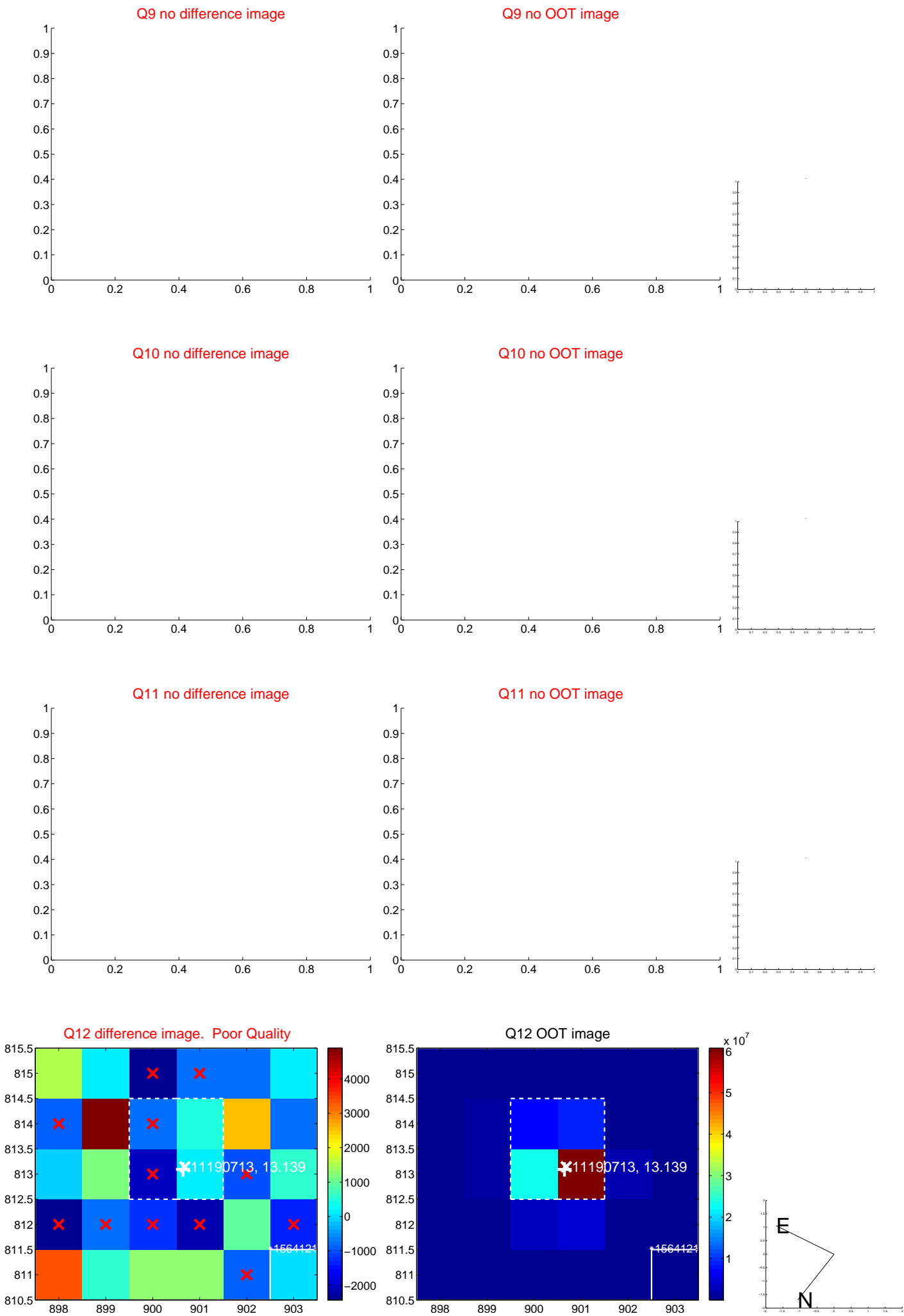
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



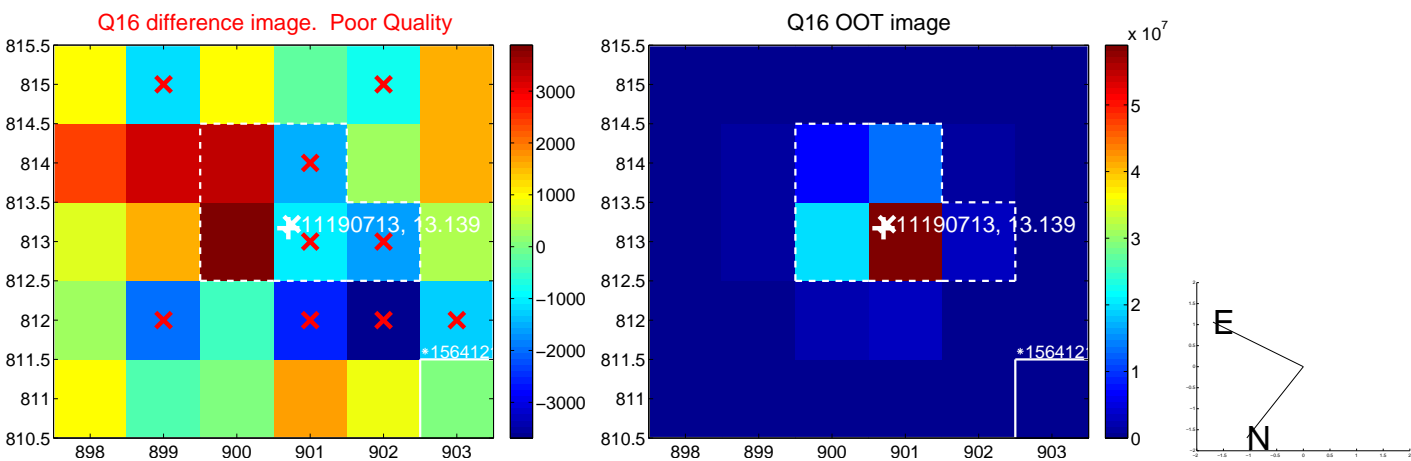
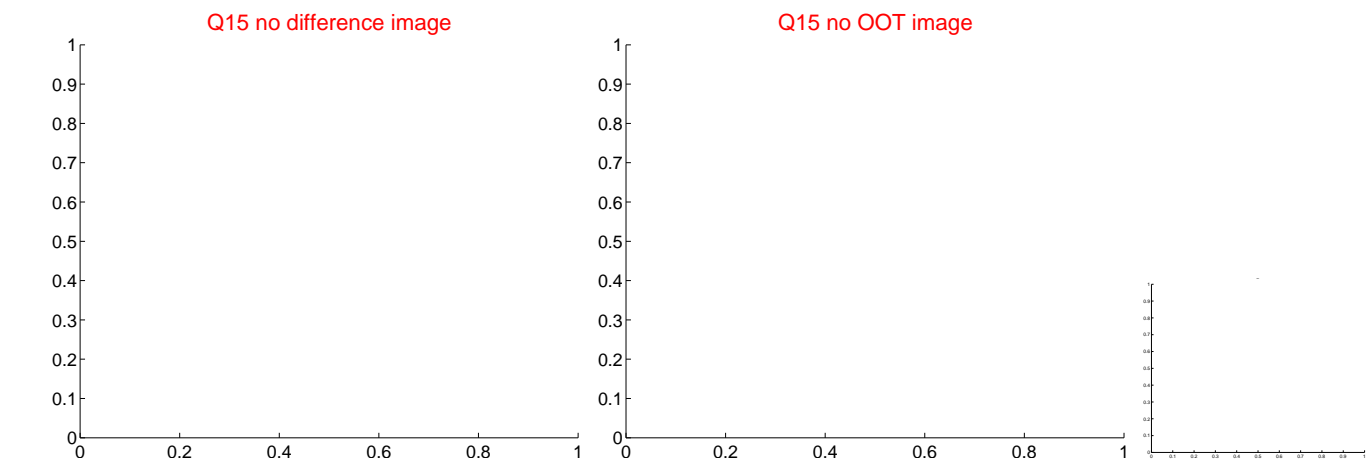
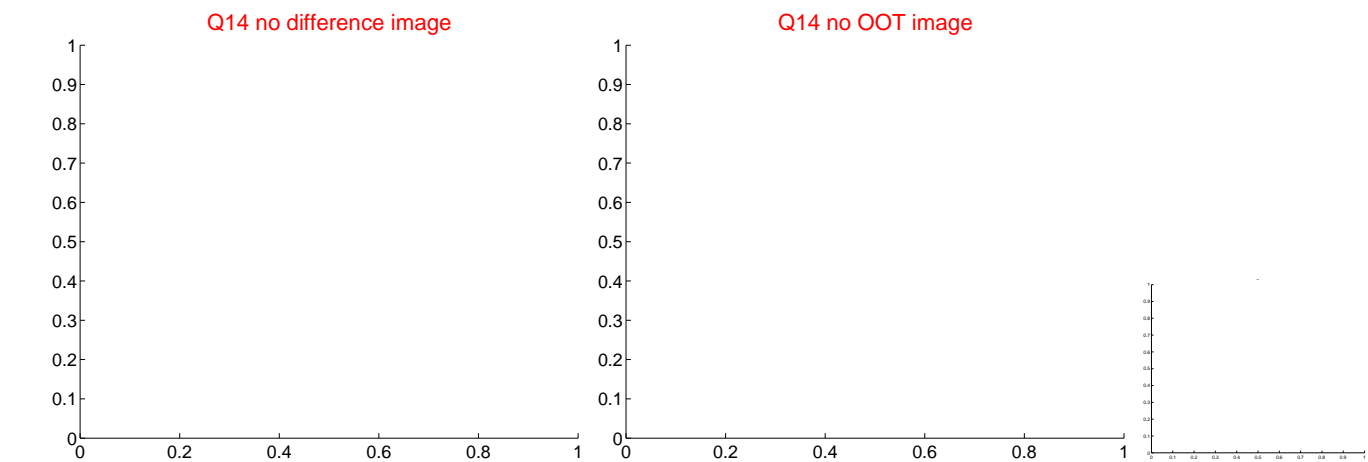
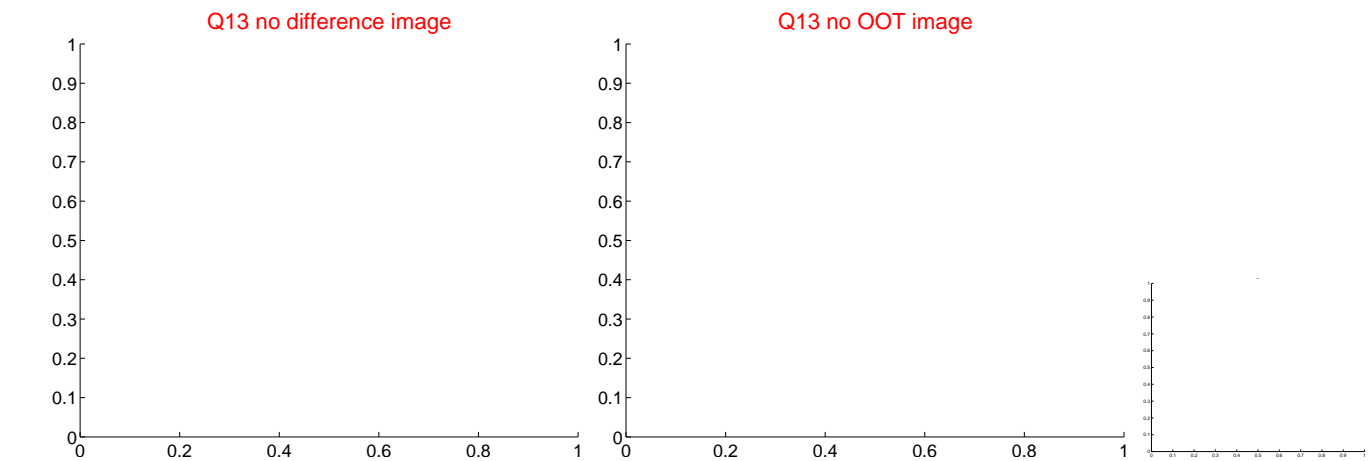
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



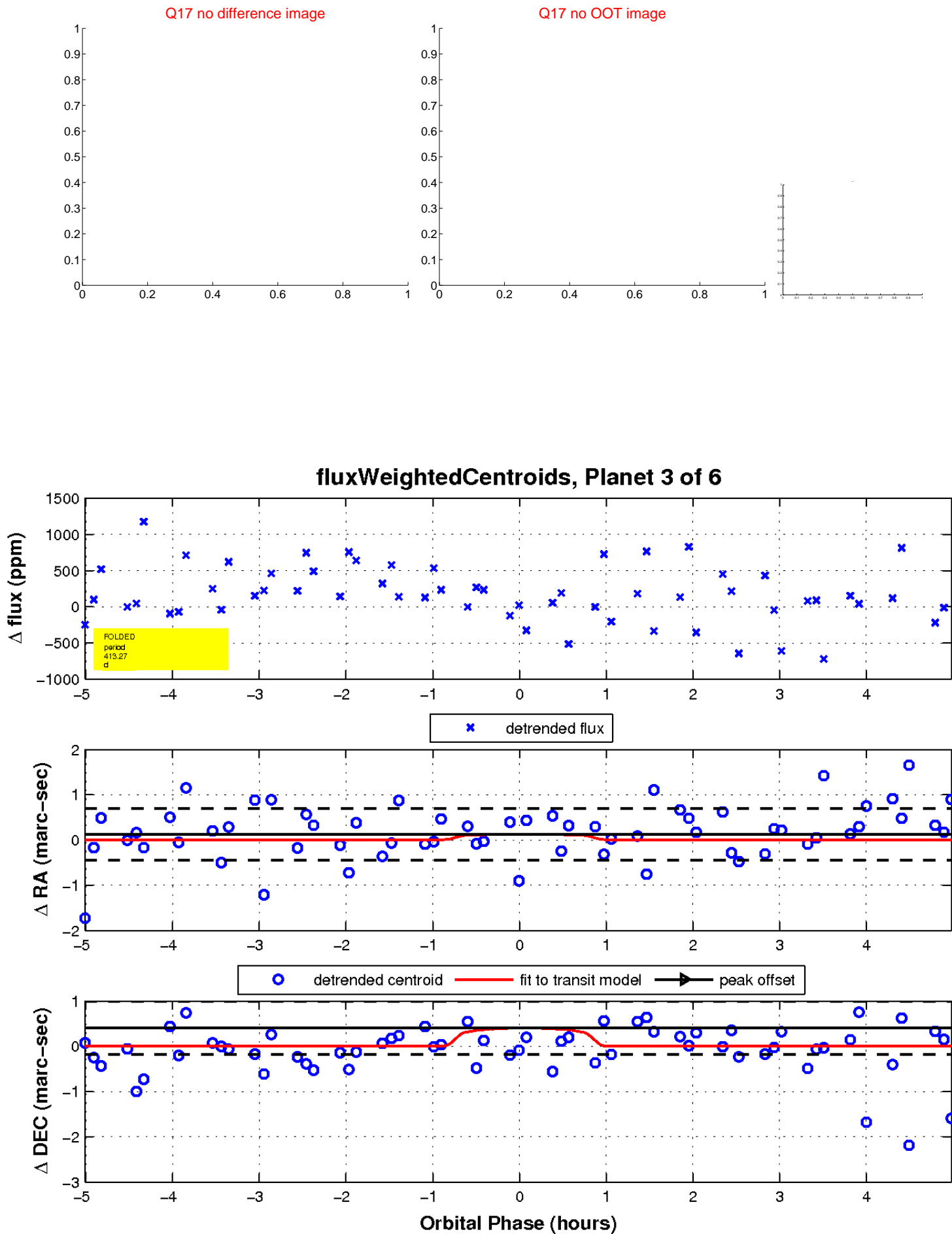
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

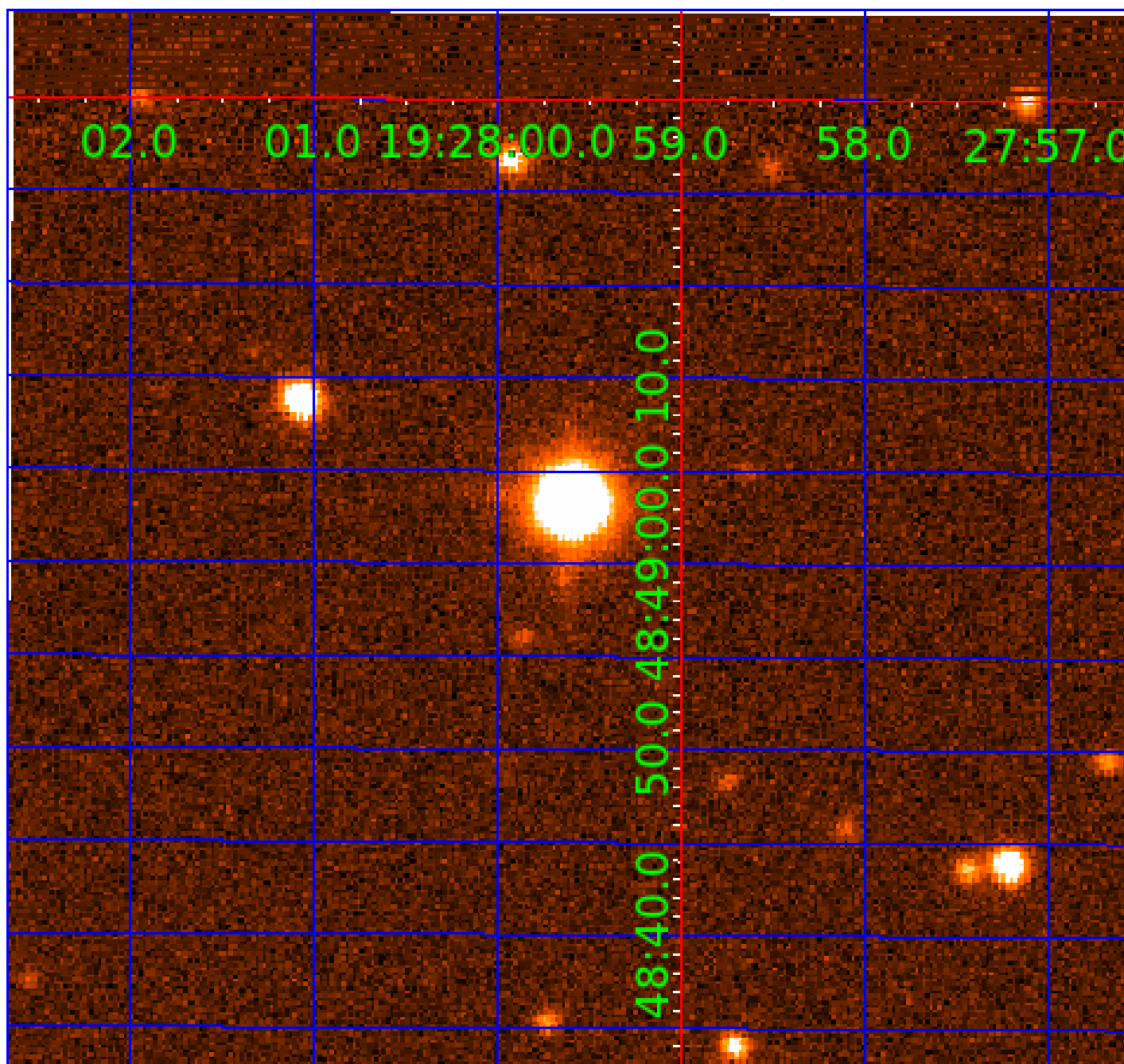


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011190713

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})
011190713-01	OBS	No	559.067285	235.074349	1066.4	3.528	17.4	7.0	0.52	4637	1.72	0.10
011190713-03	OBS	No	413.266373	313.398125	298.5	1.707	16.3	2.2	0.52	4637	1.00	0.15
011190713-04	OBS	No	387.634484	369.016368	589.3	1.958	16.4	4.3	0.52	4637	1.39	0.16
011190713-05	OBS	No	337.185015	251.224302	938.1	3.578	14.8	6.7	0.52	4637	1.60	0.19
011190713-06	OBS	No	486.849363	266.926009	1396.7	5.272	18.2	8.2	0.52	4637	2.04	0.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011190713-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—INCONSISTENT_TRANS
011190713-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011190713-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—HALO_GHOST
011190713-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_SKYE_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011190713-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

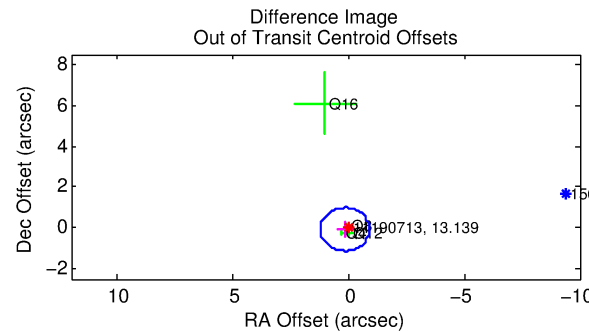
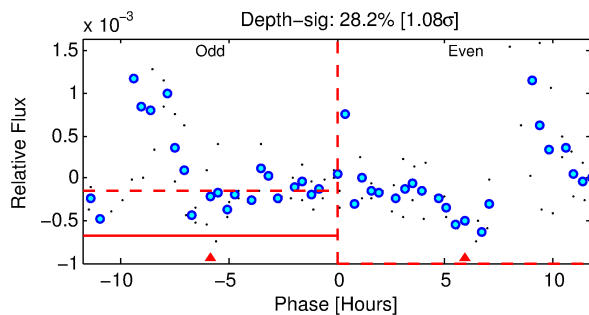
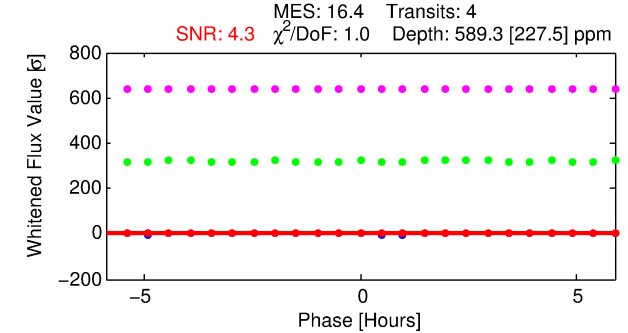
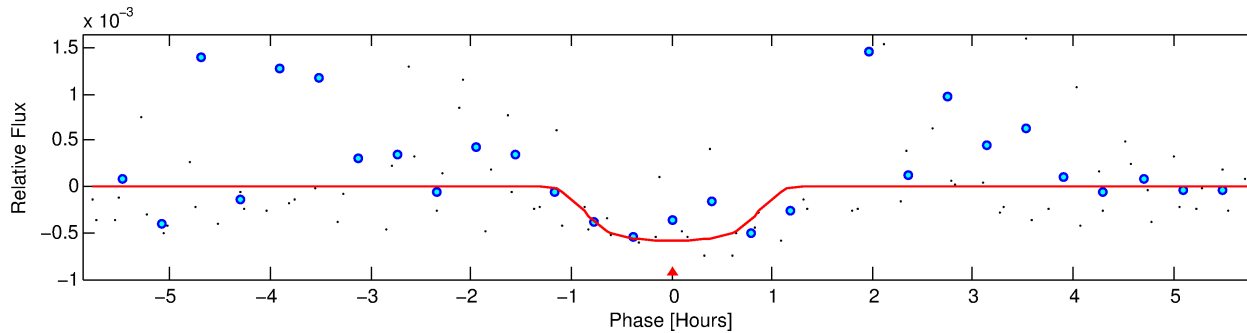
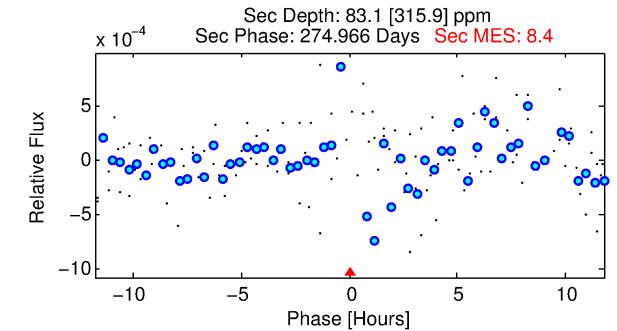
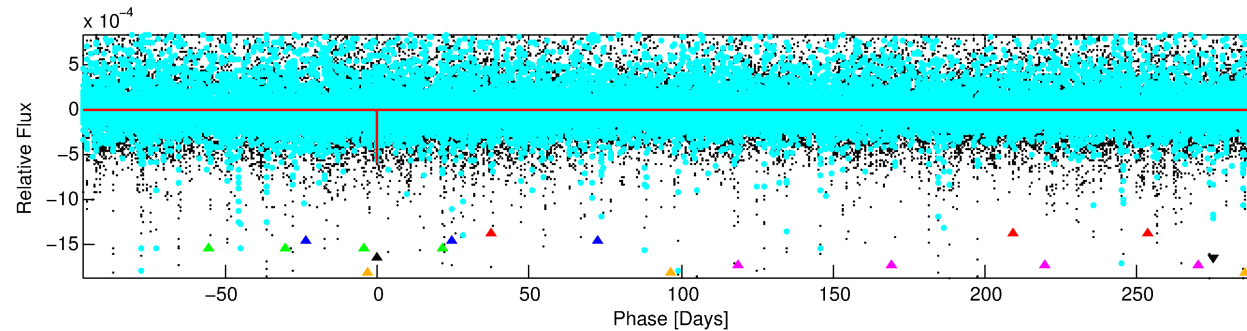
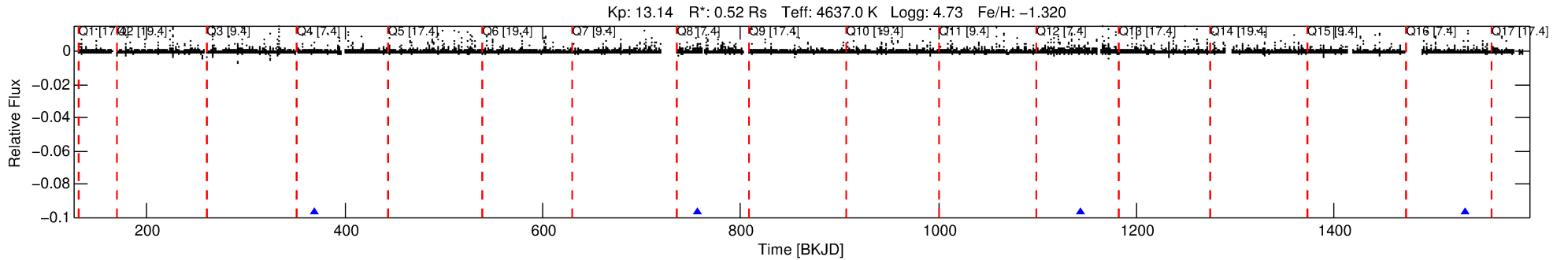
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011190713-04

No Significant Match Found

DV One-Page Summary

KIC: 11190713 Candidate: 4 of 6 Period: 387.634 d



DV Fit Results:

Period = 387.63448 [0.00595] d
Epoch = 369.0164 [0.0127] BKJD
Rp/R* = 0.0244 [0.0695]
a/R* = 1037.43 [11524.87]
b = 0.76 [6.30]
Seff = 0.16 [0.03]
Teq = 161 [6] K
Rp = 1.39 [3.96] Re
a = 0.8416 [0.0504] AU
Ag = 16776.18 [114943.69] [0.15 σ]
Teffp = 2835 [4856] K [0.55 σ]

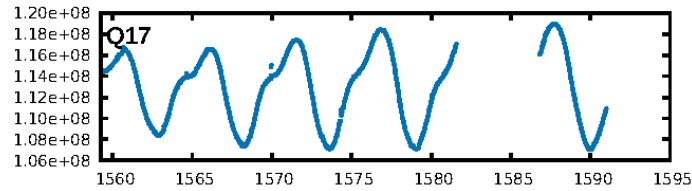
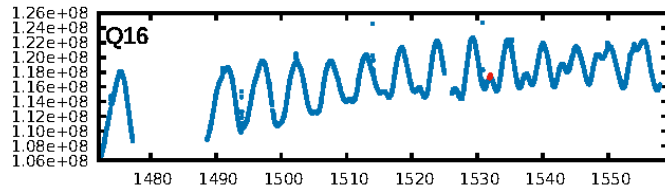
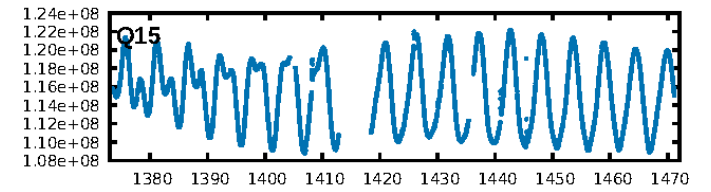
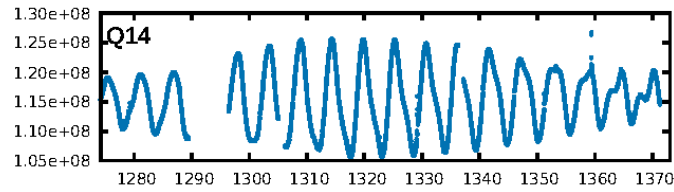
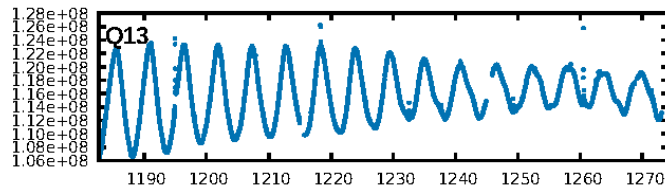
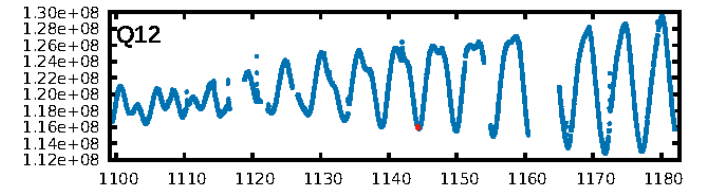
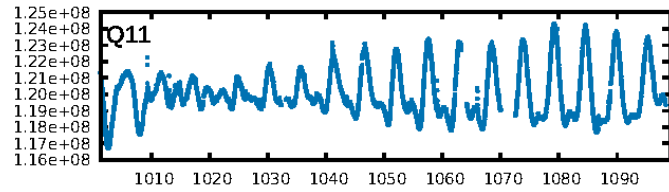
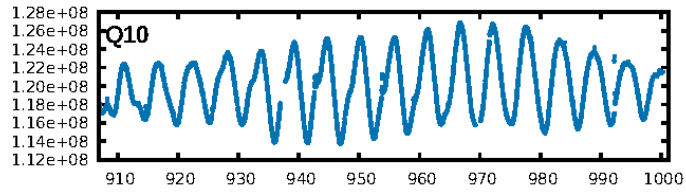
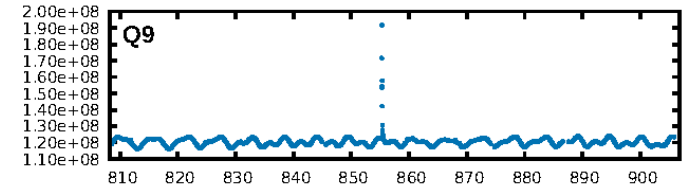
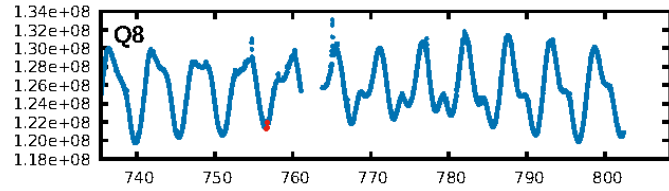
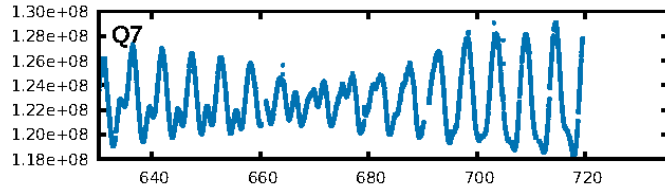
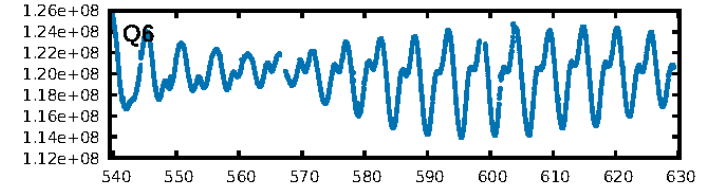
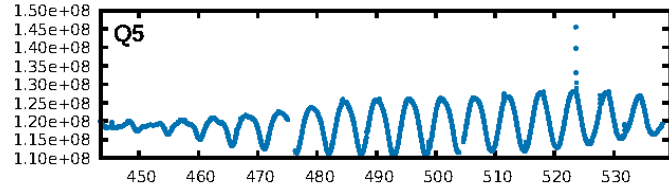
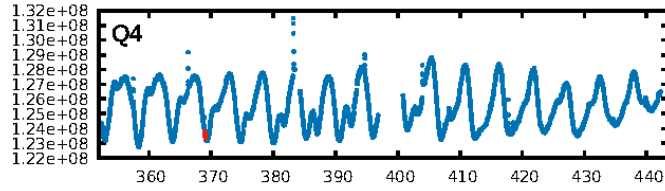
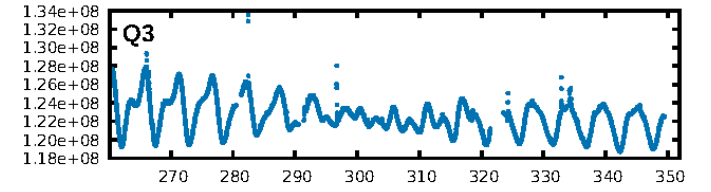
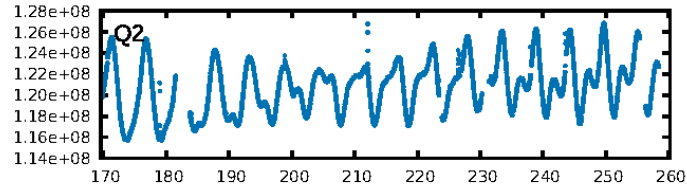
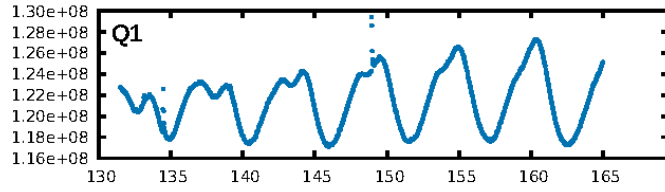
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [296.82 σ]
LongPeriod-sig: 100.0% [236.82 σ]
ModelChiSquare2-sig: 26.0%
ModelChiSquareGof-sig: 98.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.01158
Centroid-sig: 82.4%
Centroid-so: 0.422 arcsec [0.63 σ]
OotOffset-rm: 0.177 arcsec [0.50 σ]
KicOffset-rm: 0.242 arcsec [0.22 σ]
OotOffset-st: 0/0/4/0 [4]
KicOffset-st: 0/0/4/0 [4]
DiffImageQuality-fgm: 0.75 [3/4]
DiffImageOverlap-fno: 1.00 [4/4]

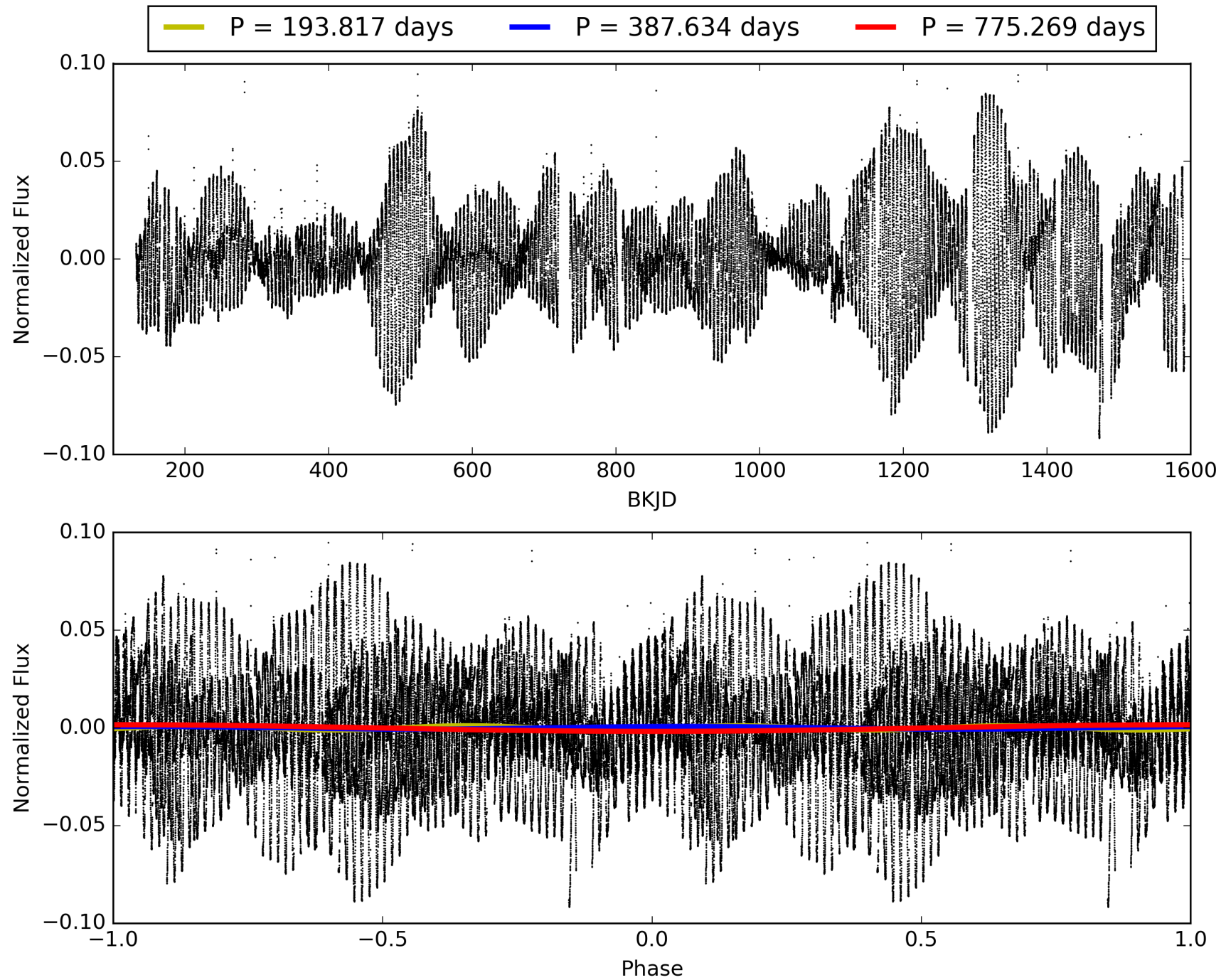
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 06:29:25 Z

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

TCE 011190713-04, PDC Light Curves

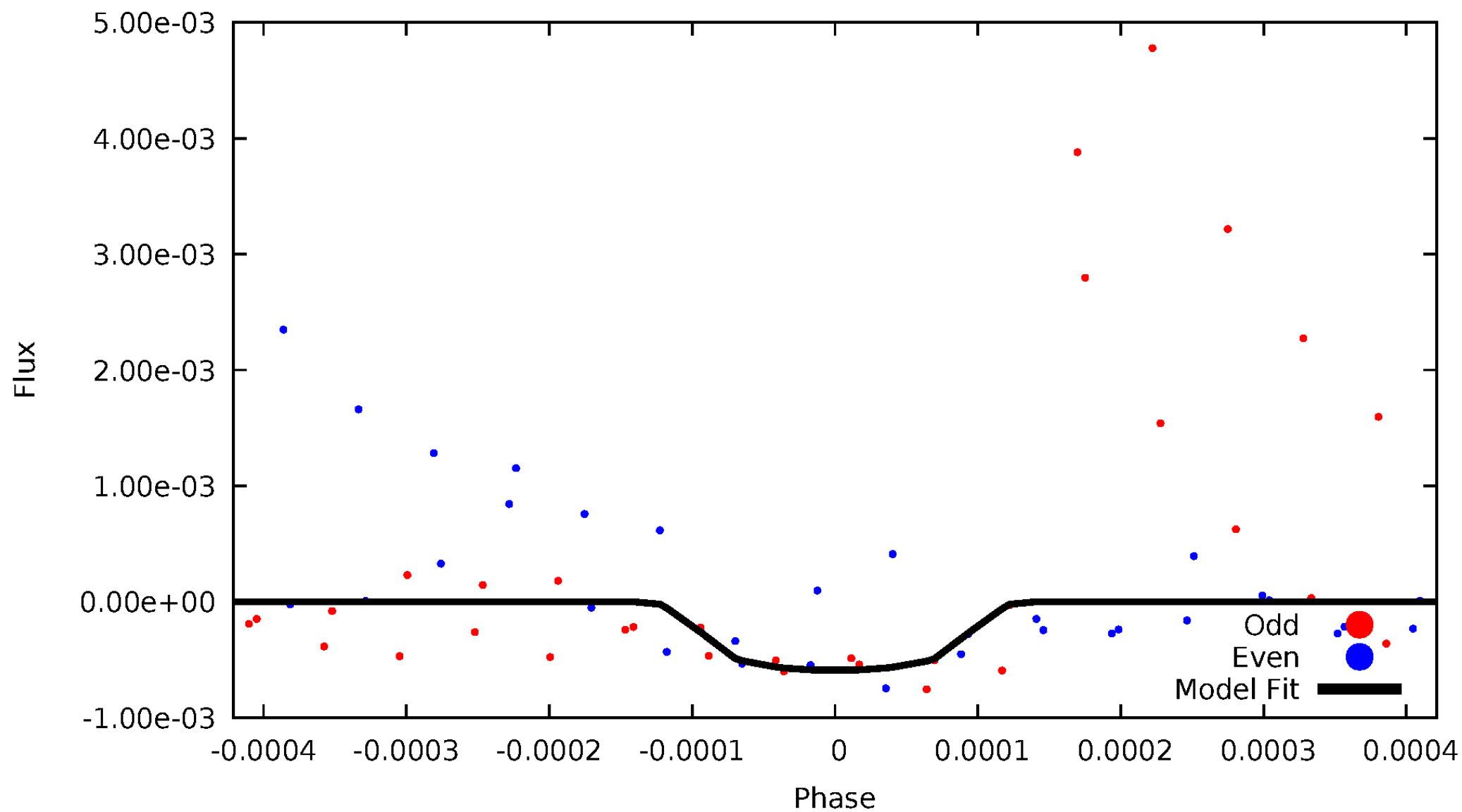


TCE 011190713-04



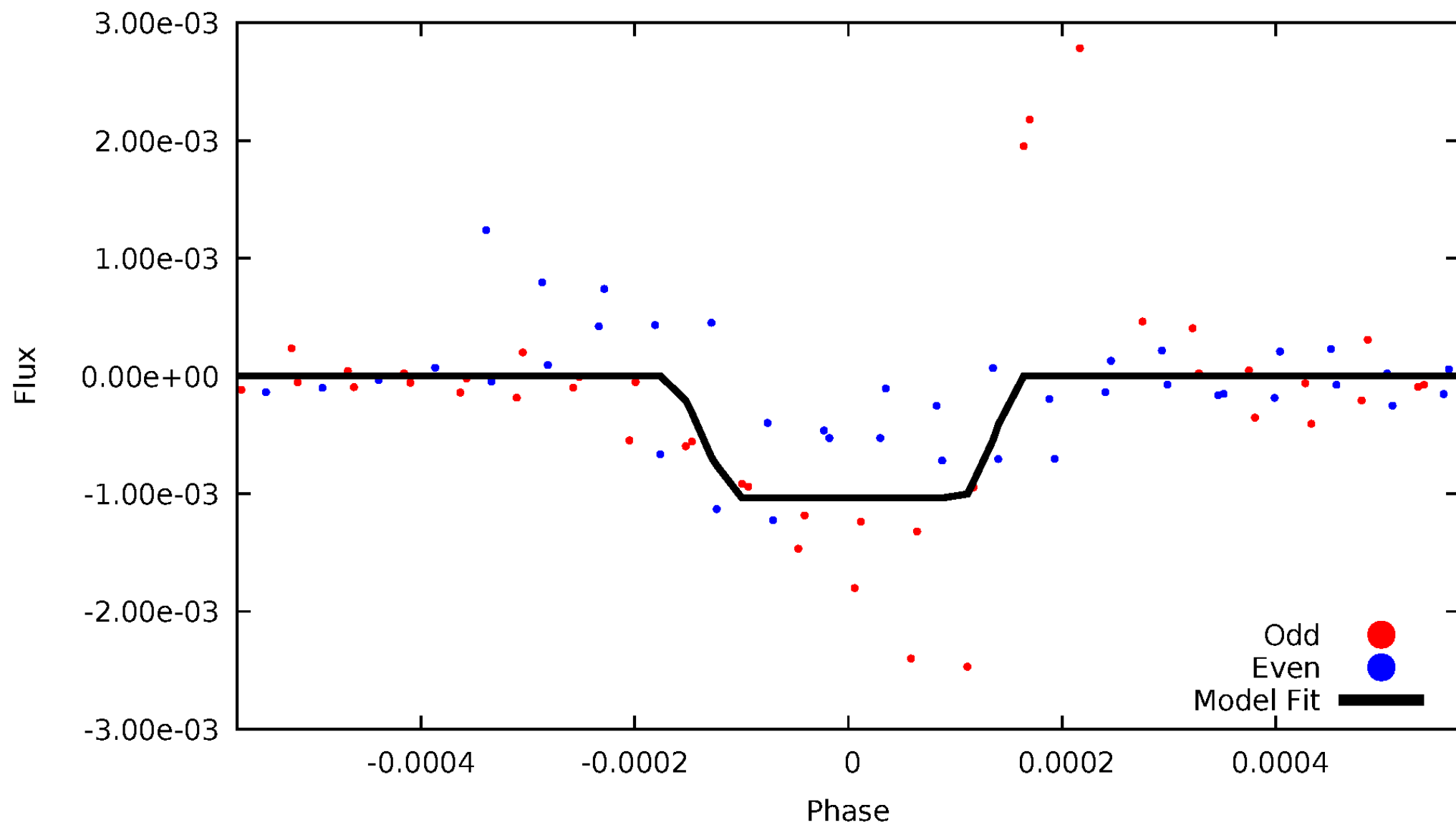
DV Odd/Even

TCE 011190713-04



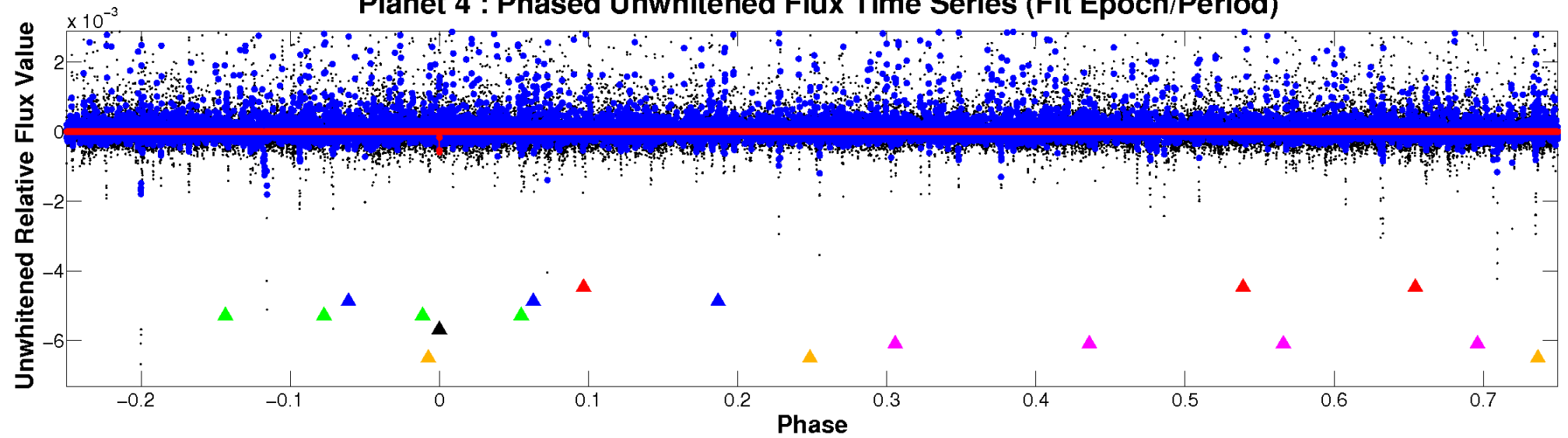
ALT Odd/Even

TCE 011190713-04

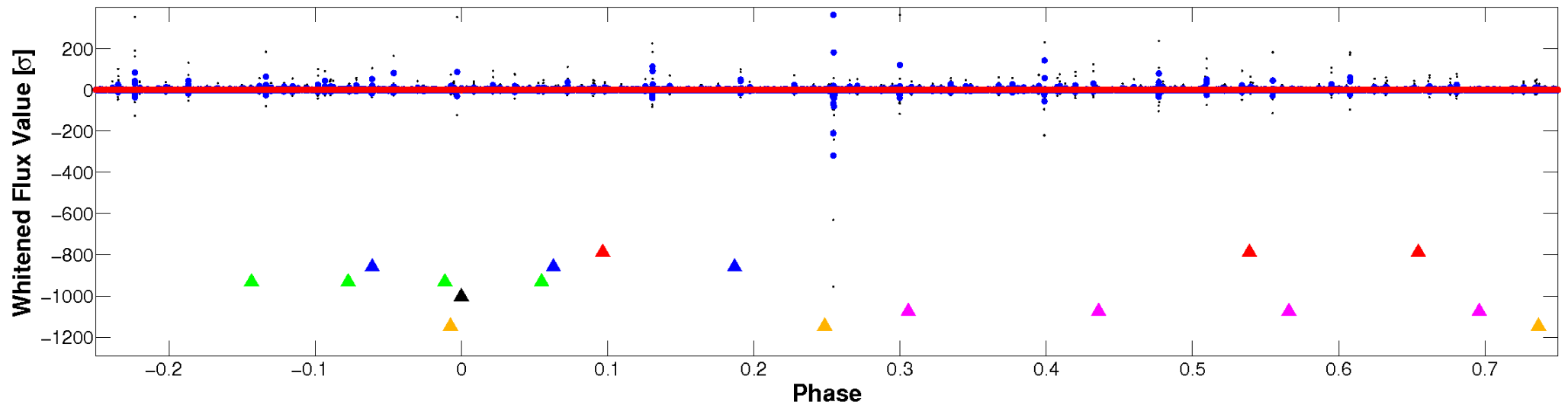


Non-Whitened Vs. Whitened Light Curve

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

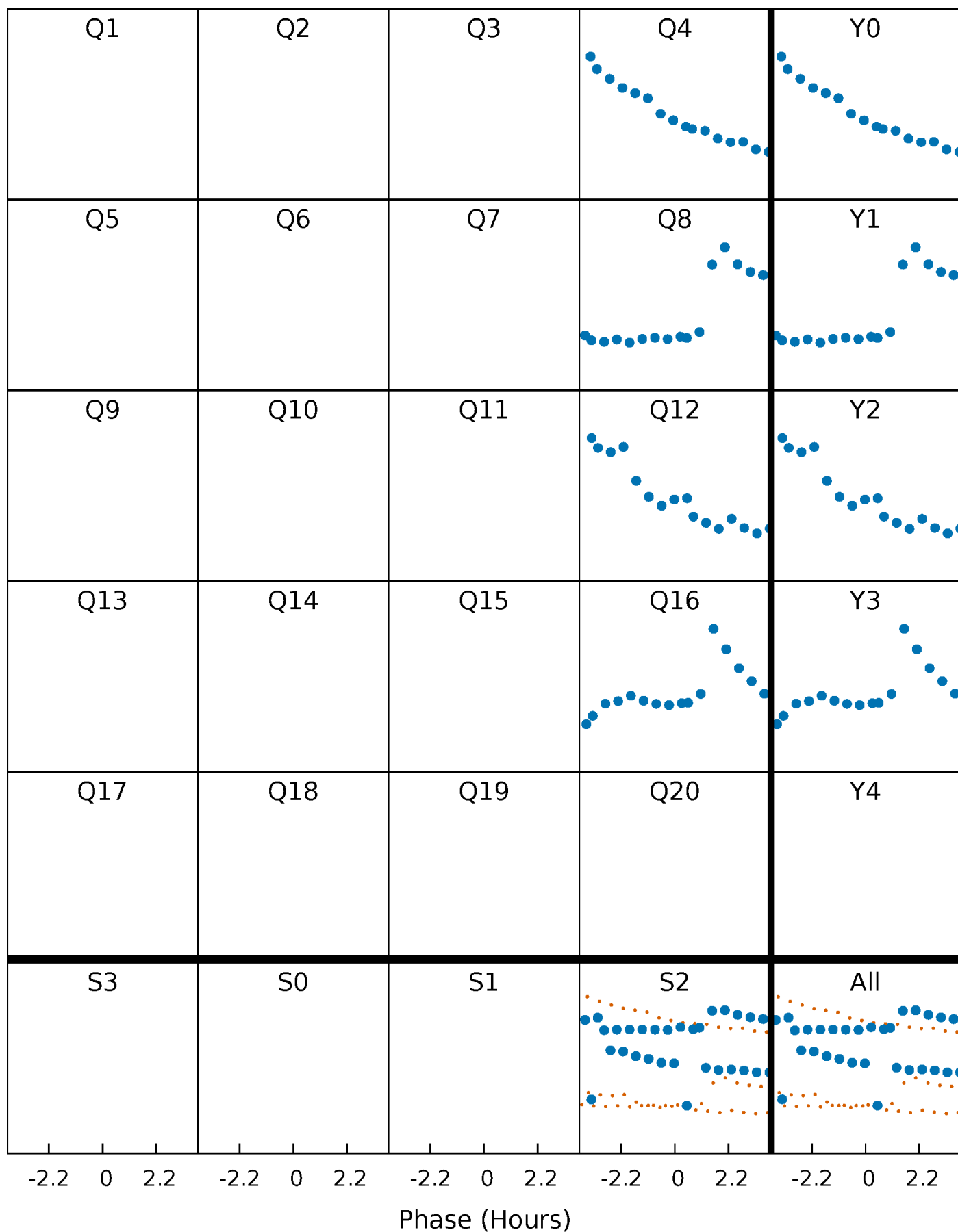


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



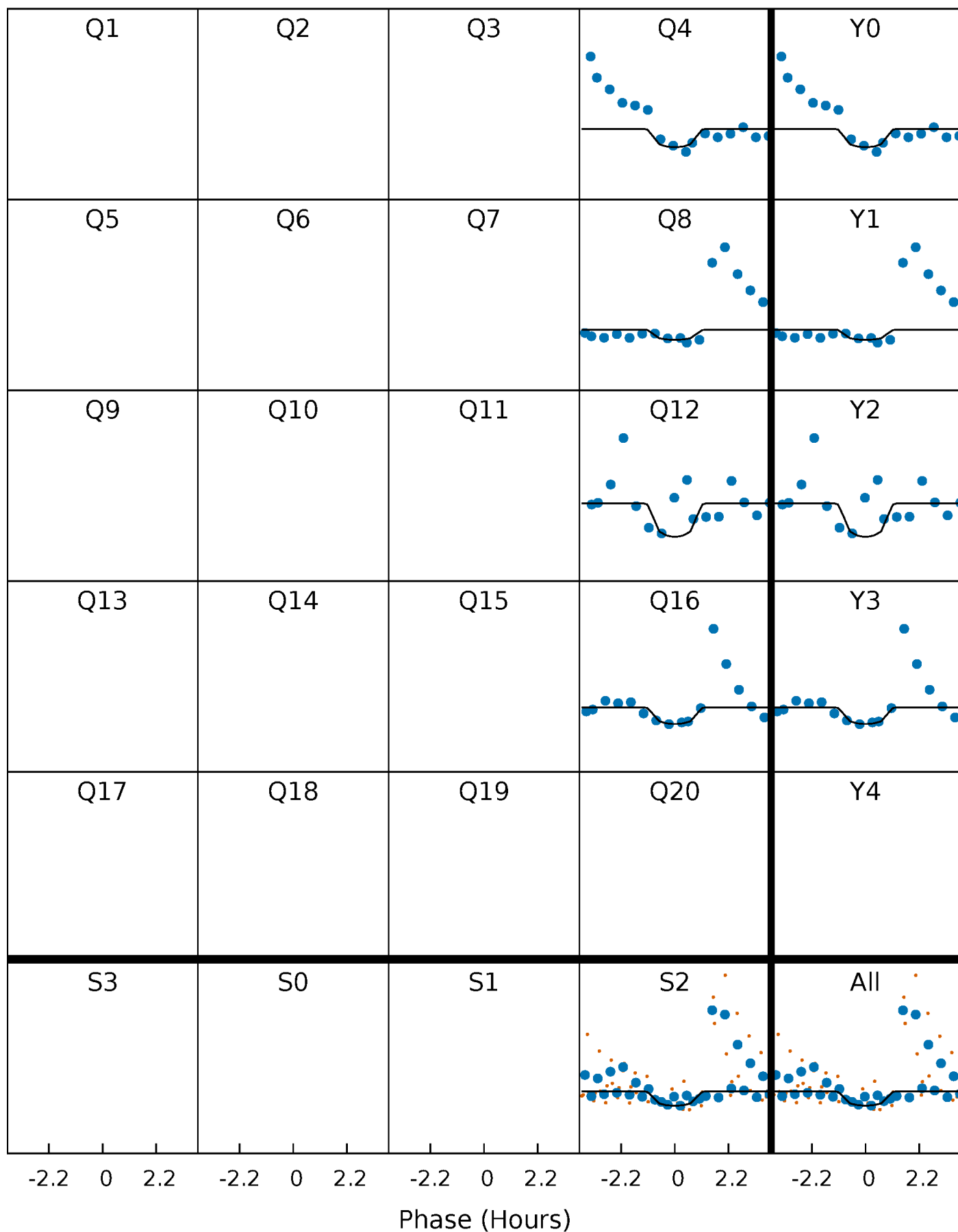
PDC Quarter-Phased Transit Curves

TCE 011190713-04 P=387.634484 Days $T_0=369.016368$ (BKJD)



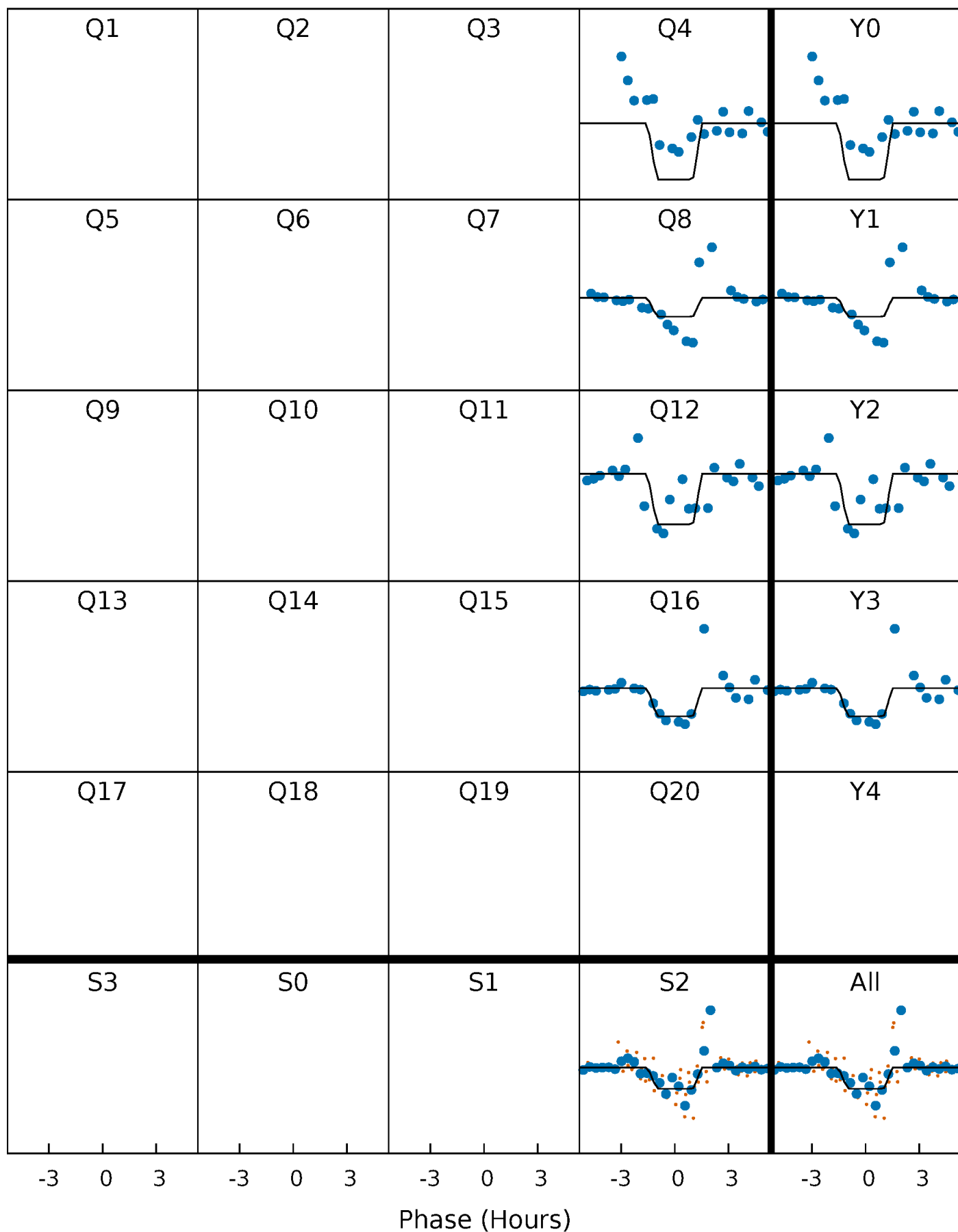
DV Quarter-Phased Transit Curves

TCE 011190713-04 P=387.634484 Days $T_0=369.016368$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

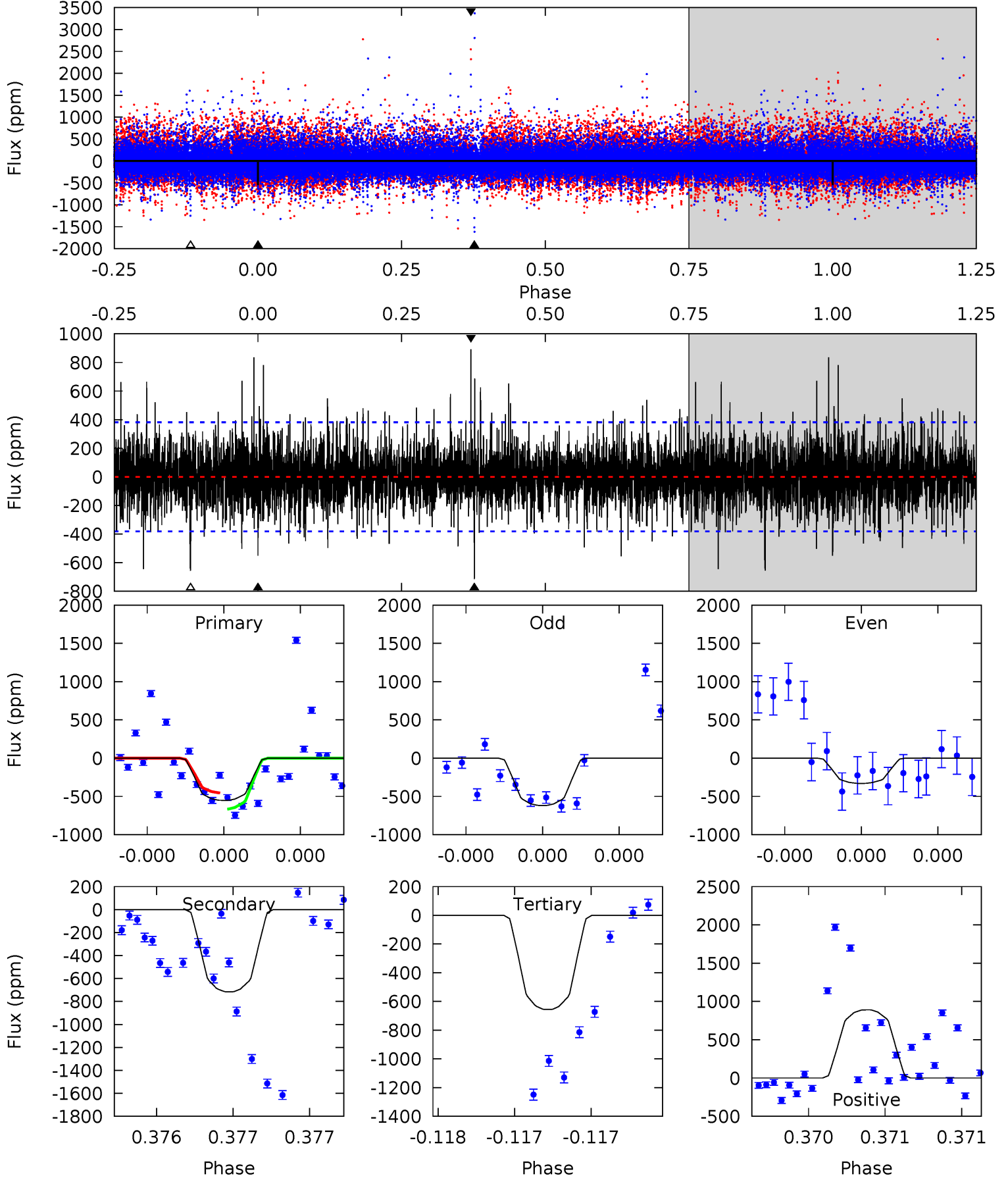
TCE 011190713-04 P=387.634442 Days $T_0=369.018549$ (BKJD)



DV Model-Shift Uniqueness Test

011190713-04, P = 387.634484 Days, E = 369.016368 Days

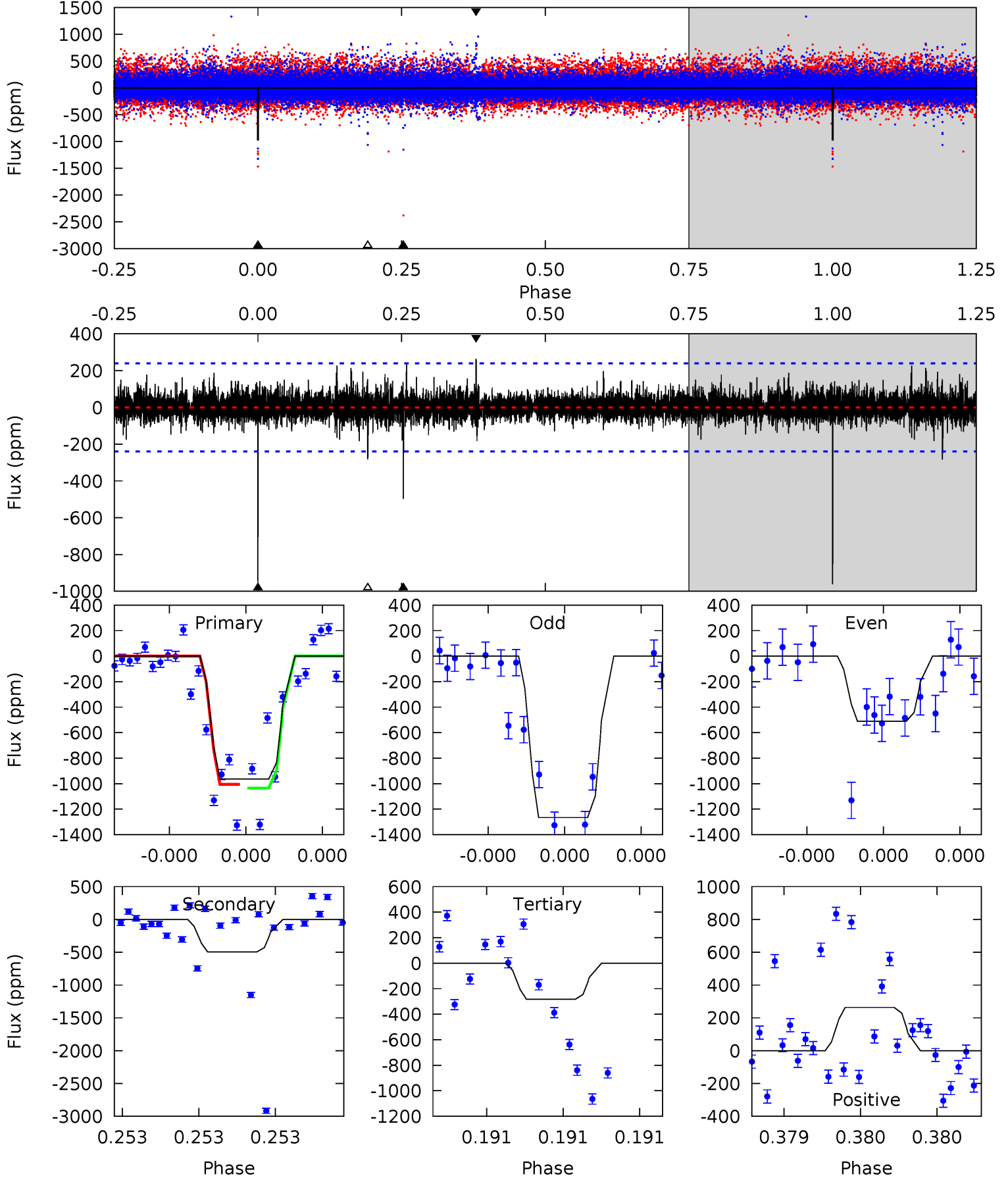
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.23	10.7	9.79	13.3	5.70	3.67	1.87	-1.56	-5.06	0.90	-2.61	0.29	0.77	0.55	1.60



Alt Model-Shift Uniqueness Test

011190713-04, P = 387.634442 Days, E = 369.018549 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.8	11.8	6.69	6.24	5.67	3.62	0.95	16.1	16.5	5.07	5.51	7.67	1.04	0.22	0



Stellar Parameters For KIC 011190713

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4637^{+138}_{-152}	$4.726^{+0.052}_{-0.024}$	$-1.320^{+0.300}_{-0.300}$	$0.522^{+0.028}_{-0.035}$	$0.528^{+0.035}_{-0.026}$	$5.231^{+1.032}_{-0.592}$
	+3%/-3%	+1%/-1%	+23%/-23%	+5%/-7%	+7%/-5%	+20%/-11%
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 011190713-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-716 ± 67	$3.01^{+3.25}_{-1.98}$	224^{+8}_{-8}	3601^{+1837}_{-704}	$31248^{+231426}_{-23966}$
Alt.	-496 ± 42	$3.43^{+2.92}_{-2.27}$	224^{+8}_{-8}	3282^{+1406}_{-543}	$16863^{+125286}_{-12209}$

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

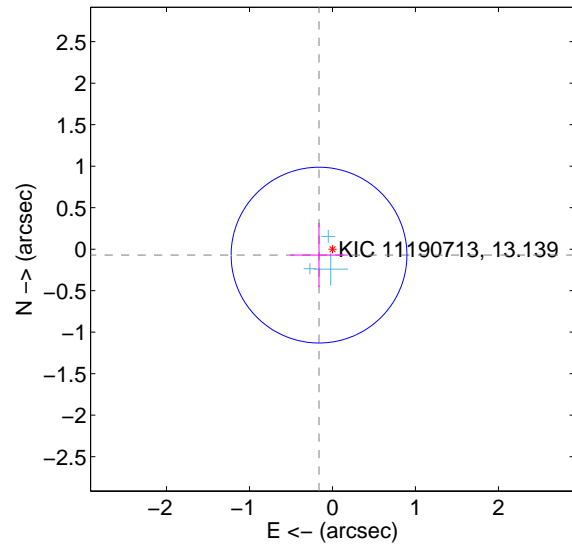
Supplemental centroid analysis for 011190713-04. Kepler magnitude: 13.14. Transit SNR 4.30

There are 3 quarters with good PRF difference image offsets

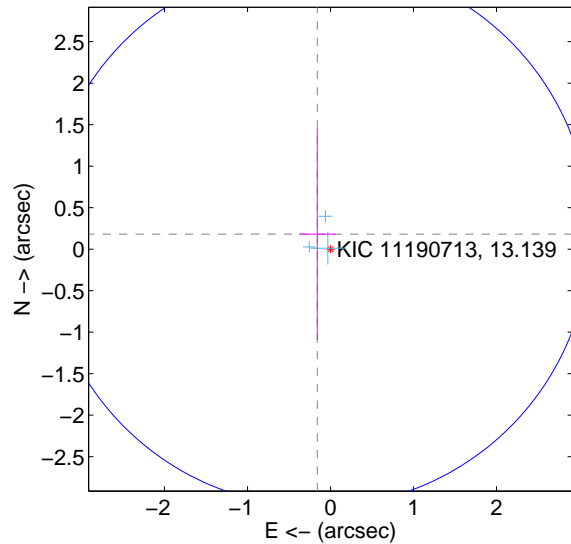
The direct PRF centroid is offset from the target star catalog position by about 0.28 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.177 ± 0.353	0.50	0.162 ± 0.346	-0.072 ± 0.387
PRF-fit source offset from KIC position	0.242 ± 1.096	0.22	0.160 ± 0.220	0.182 ± 1.276
photometric centroid source offset	0.42 ± 0.67	0.63	0.25 ± 0.67	0.34 ± 0.67

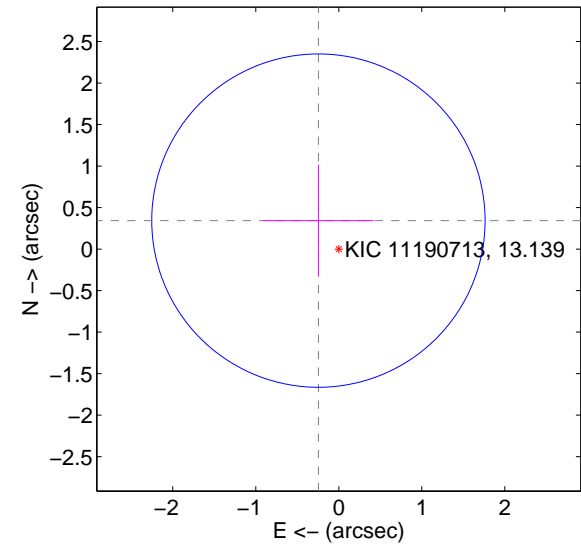
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

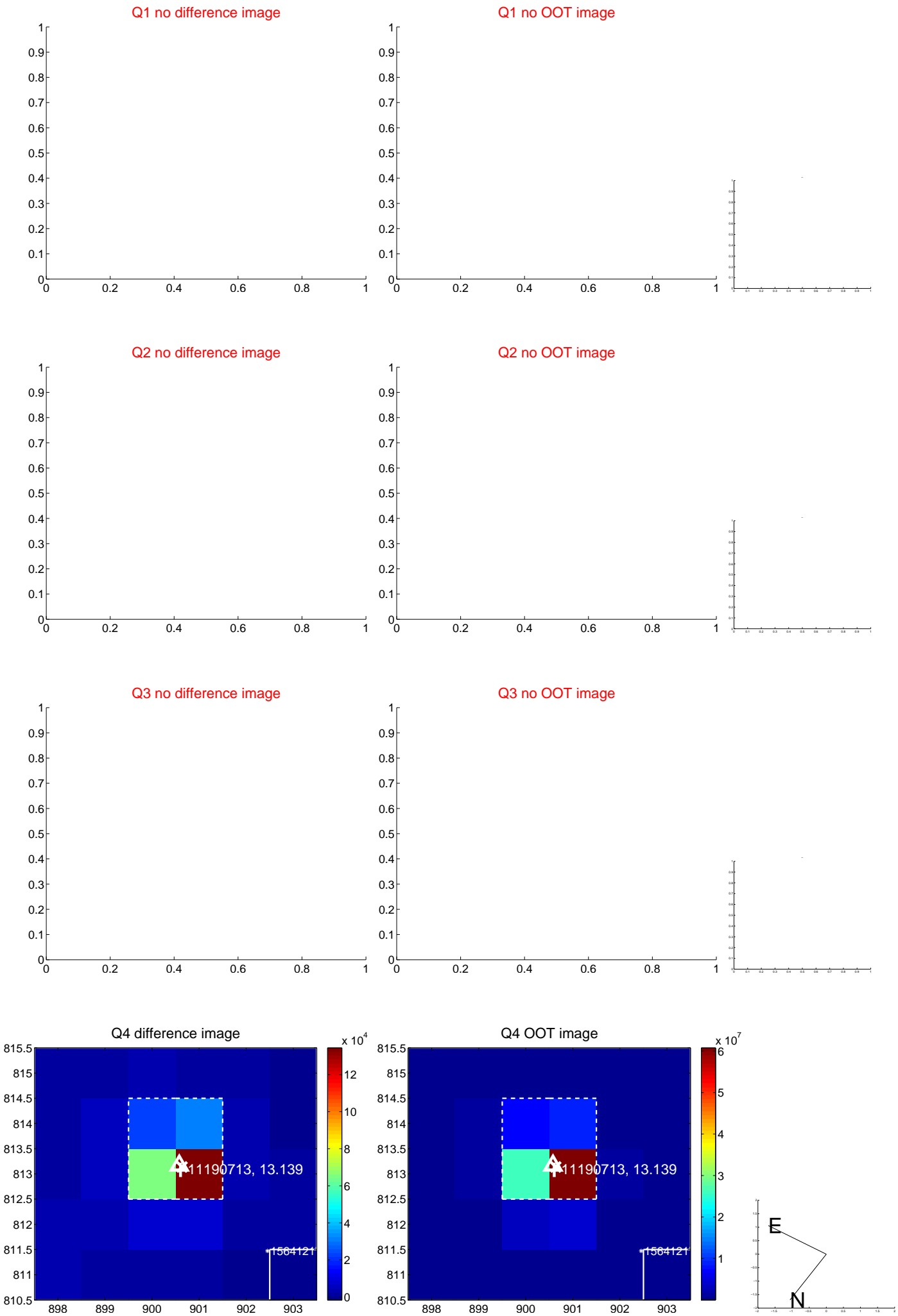


offset from photometric centroids

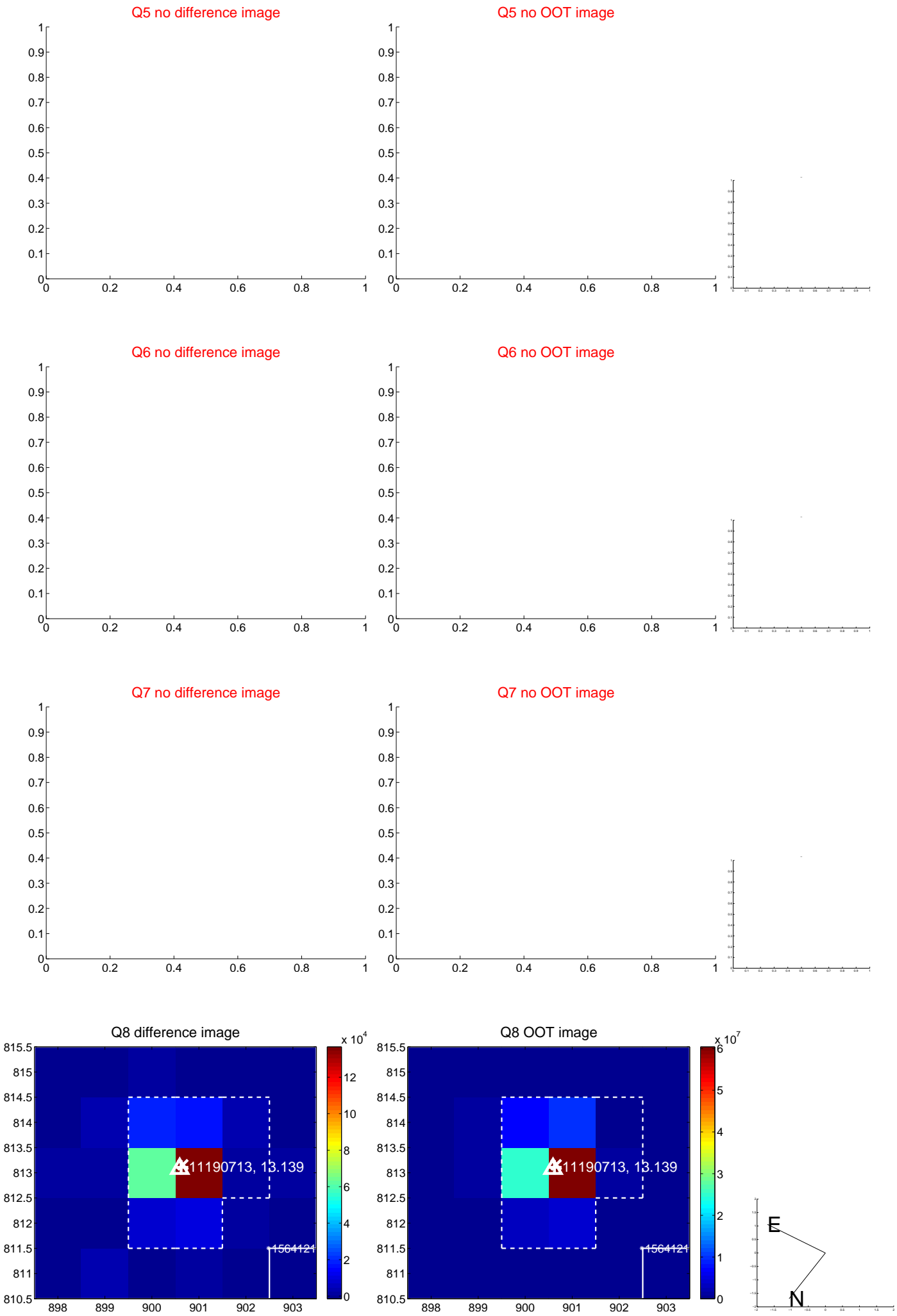


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

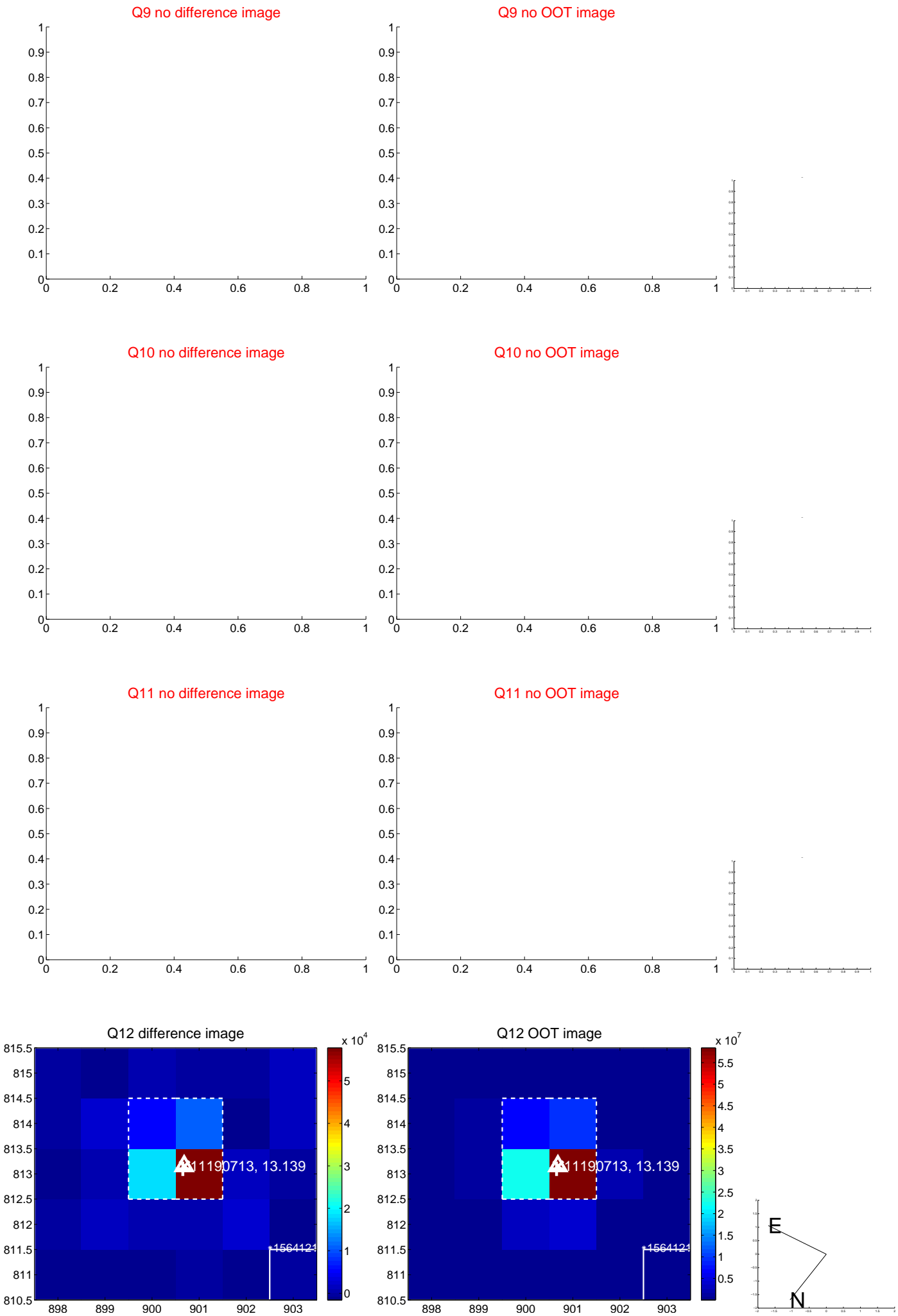
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



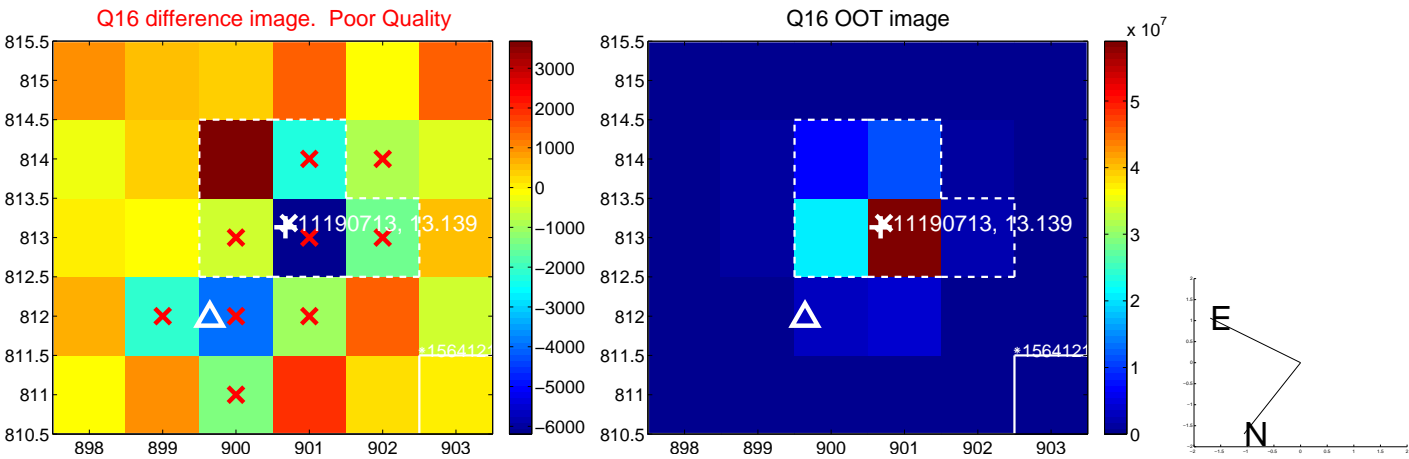
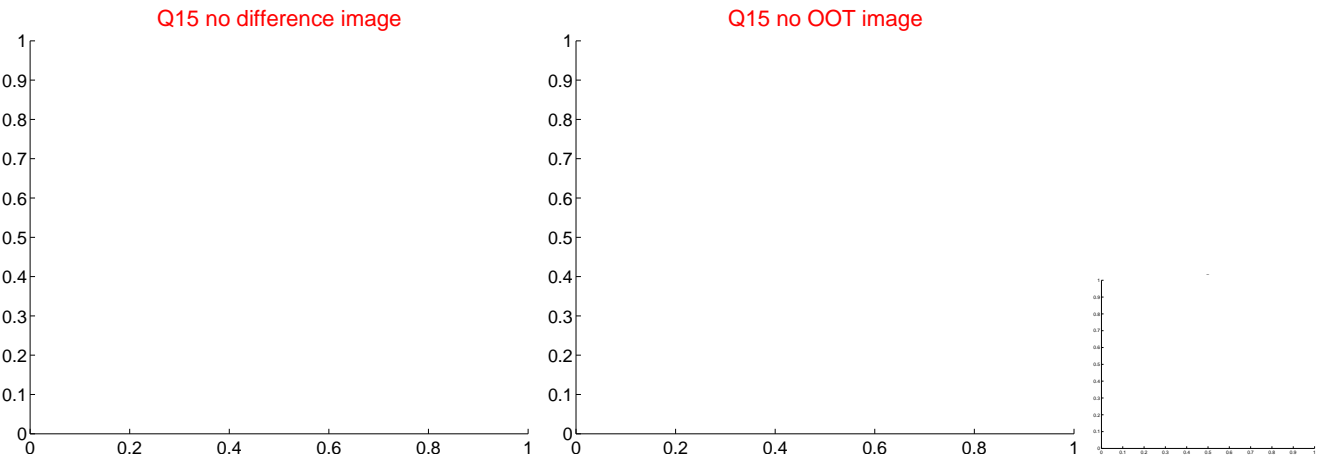
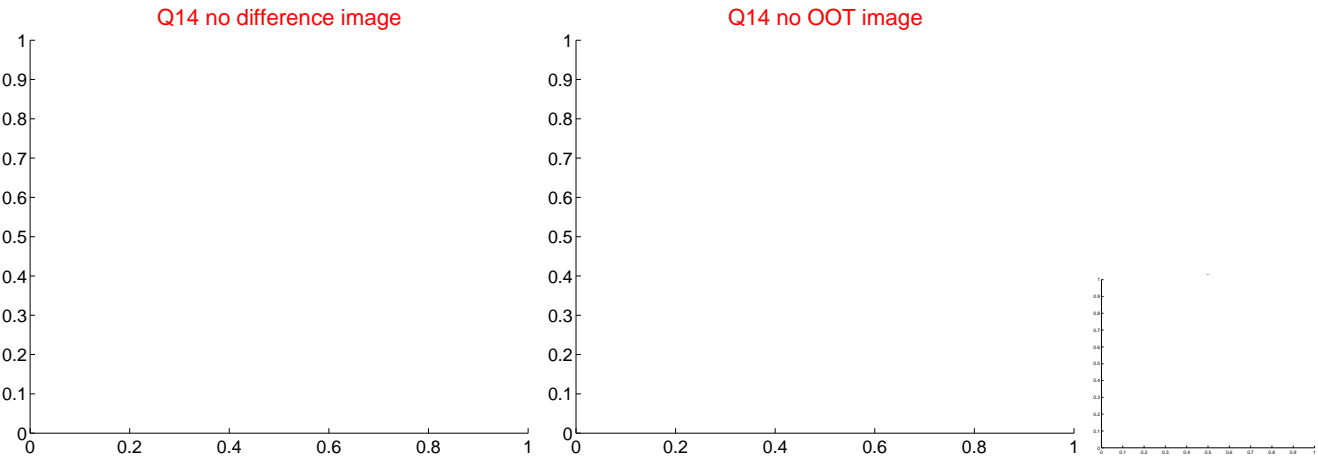
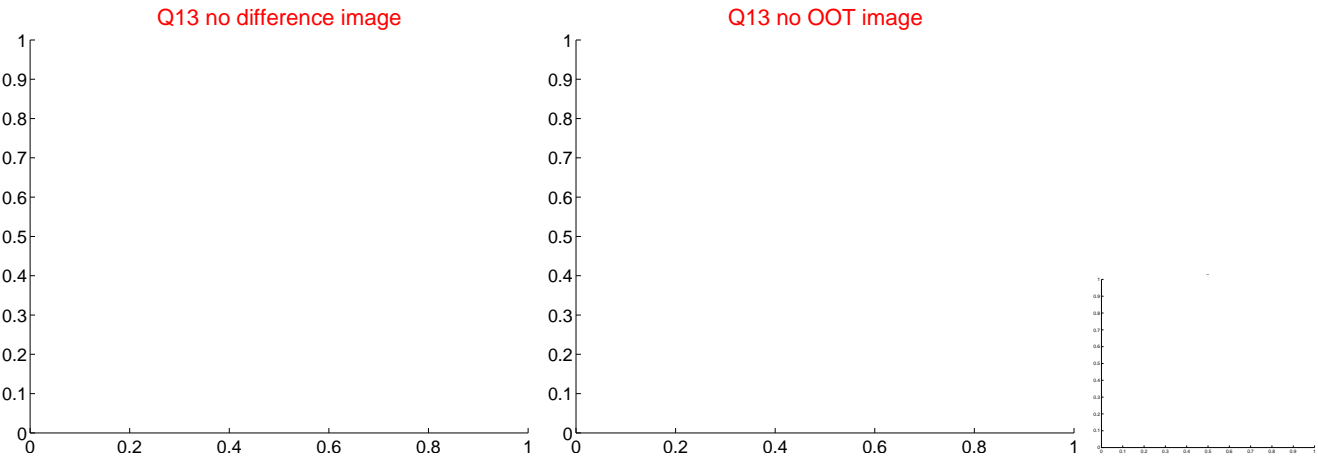
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



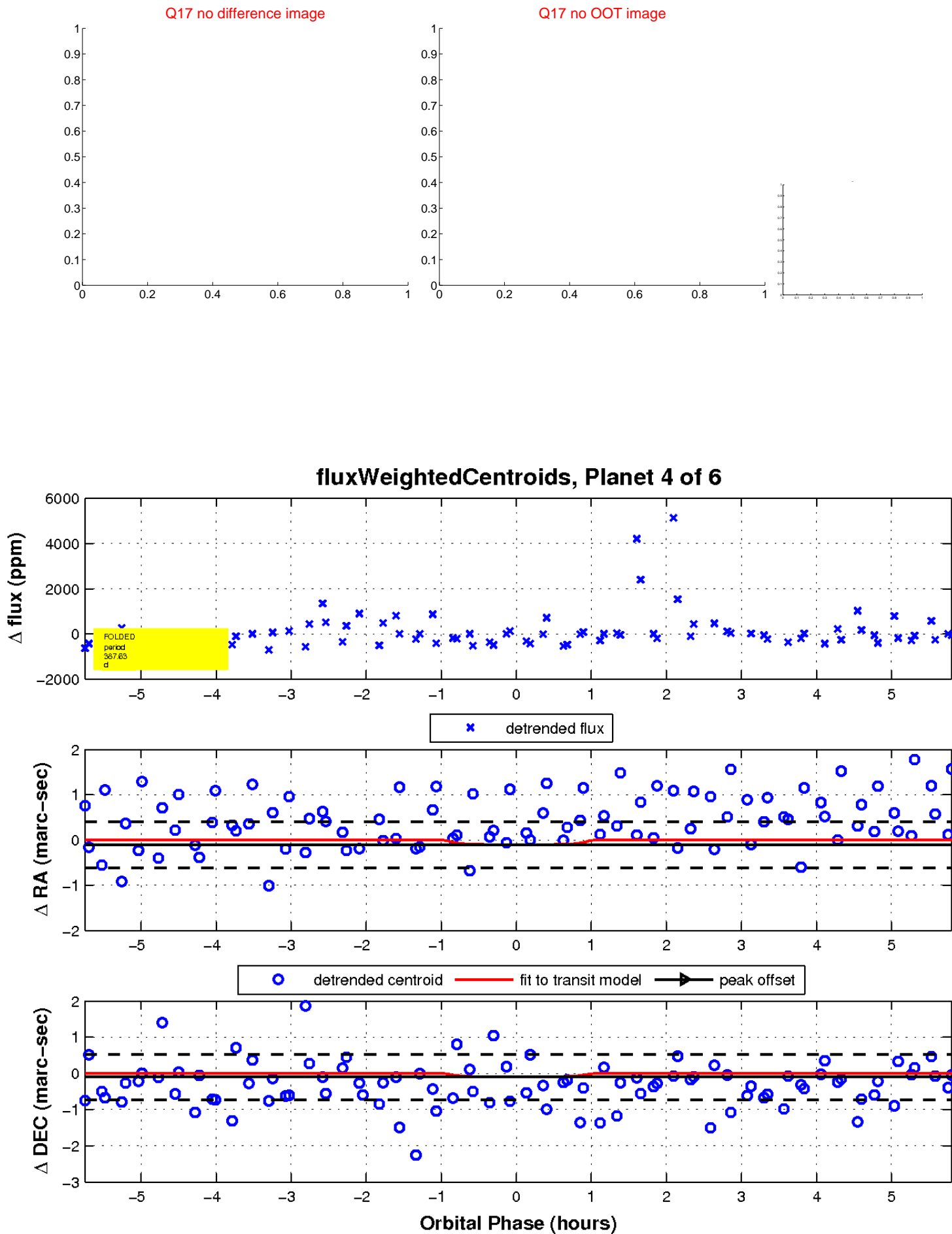
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

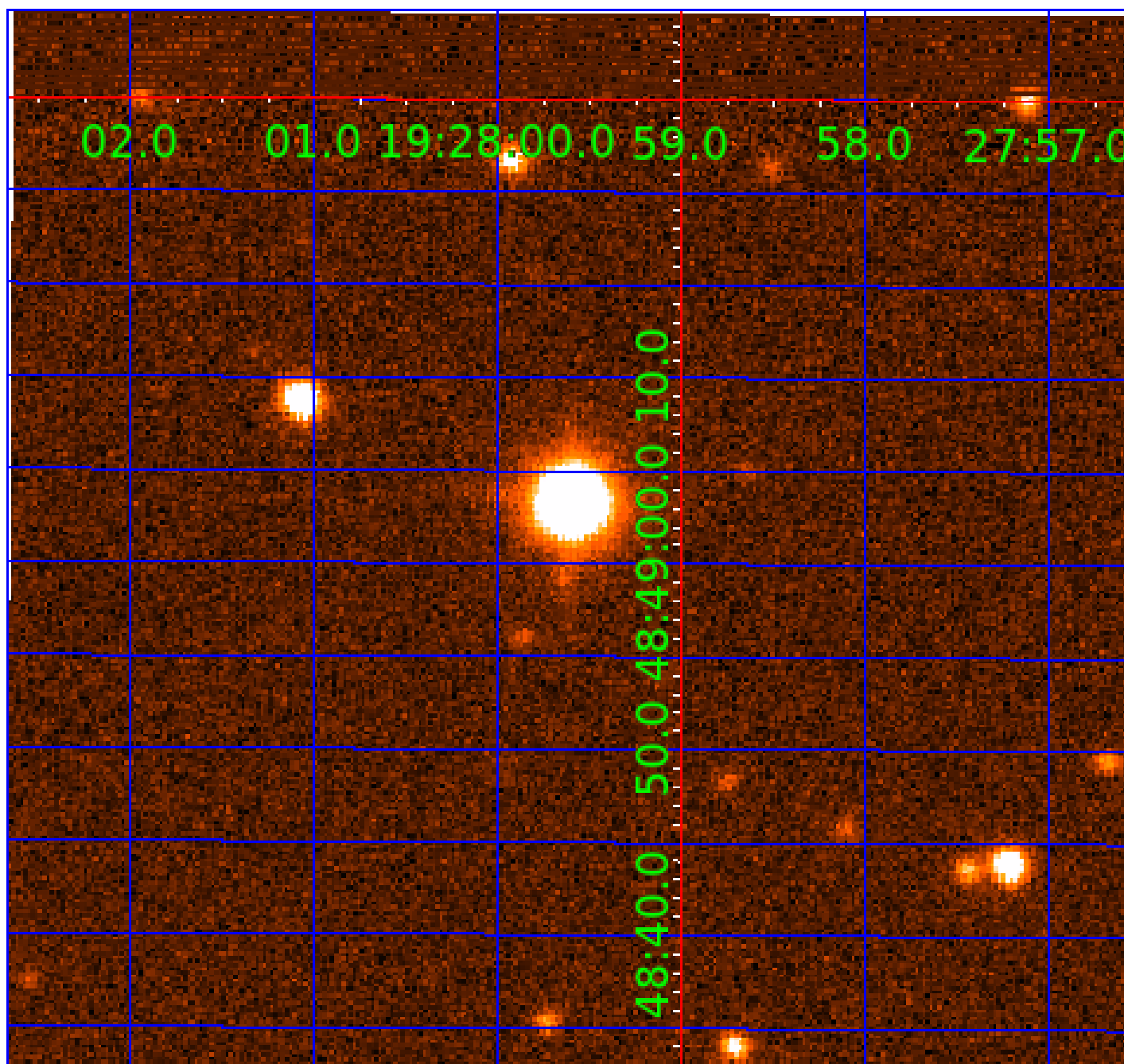


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011190713

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})
011190713-01	OBS	No	559.067285	235.074349	1066.4	3.528	17.4	7.0	0.52	4637	1.72	0.10
011190713-03	OBS	No	413.266373	313.398125	298.5	1.707	16.3	2.2	0.52	4637	1.00	0.15
011190713-04	OBS	No	387.634484	369.016368	589.3	1.958	16.4	4.3	0.52	4637	1.39	0.16
011190713-05	OBS	No	337.185015	251.224302	938.1	3.578	14.8	6.7	0.52	4637	1.60	0.19
011190713-06	OBS	No	486.849363	266.926009	1396.7	5.272	18.2	8.2	0.52	4637	2.04	0.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011190713-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—INCONSISTENT_TRANS
011190713-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011190713-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—HALO_GHOST
011190713-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_SKYE_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011190713-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

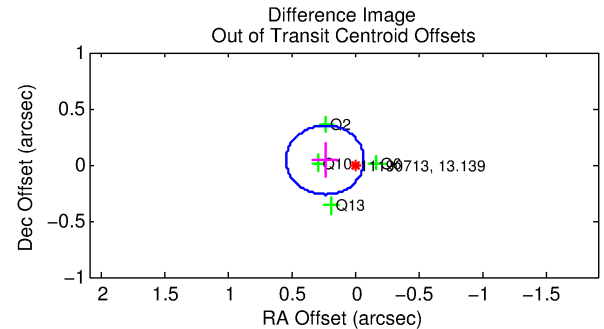
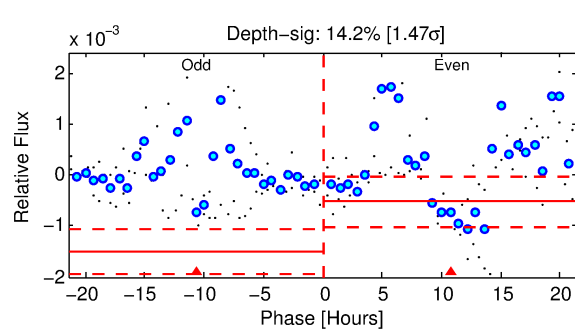
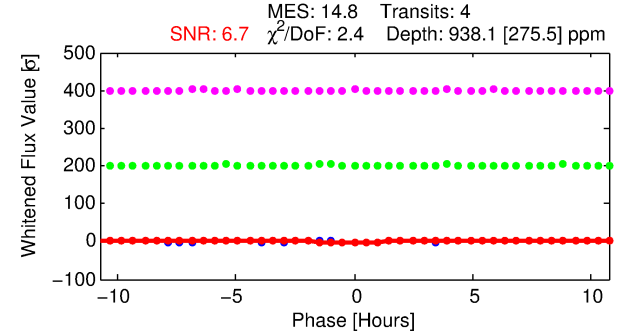
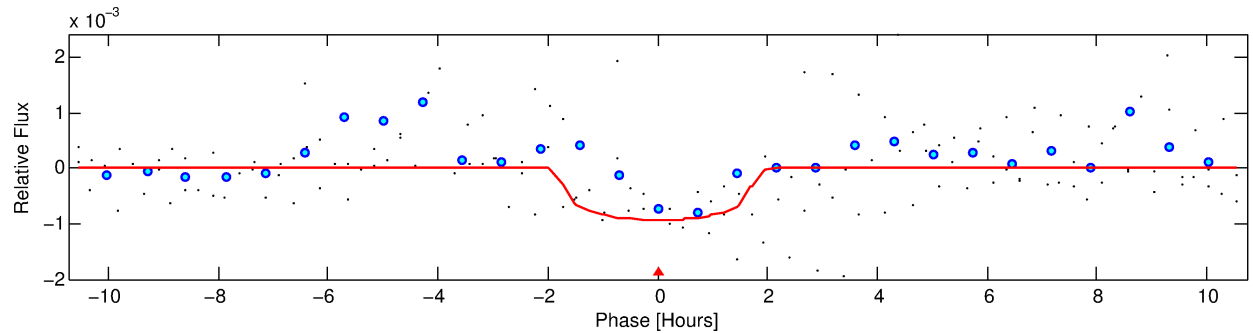
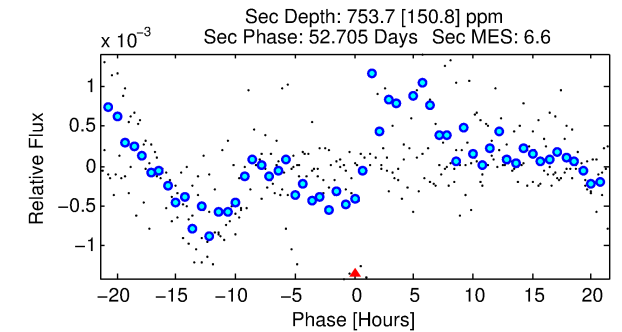
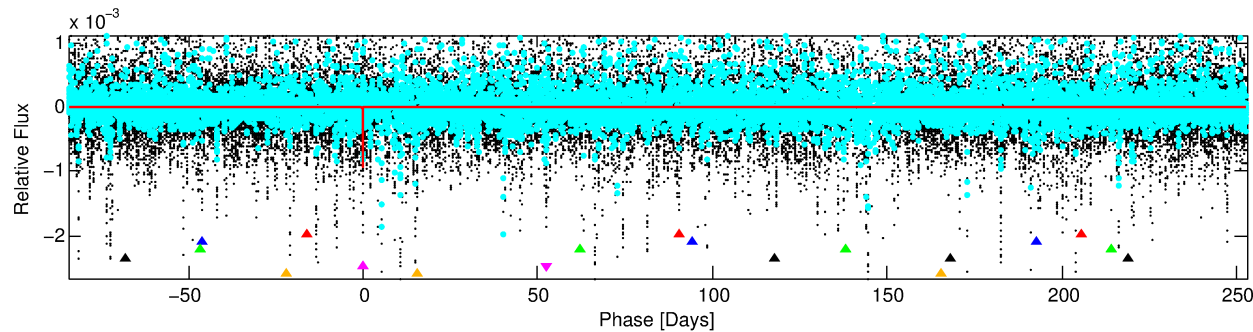
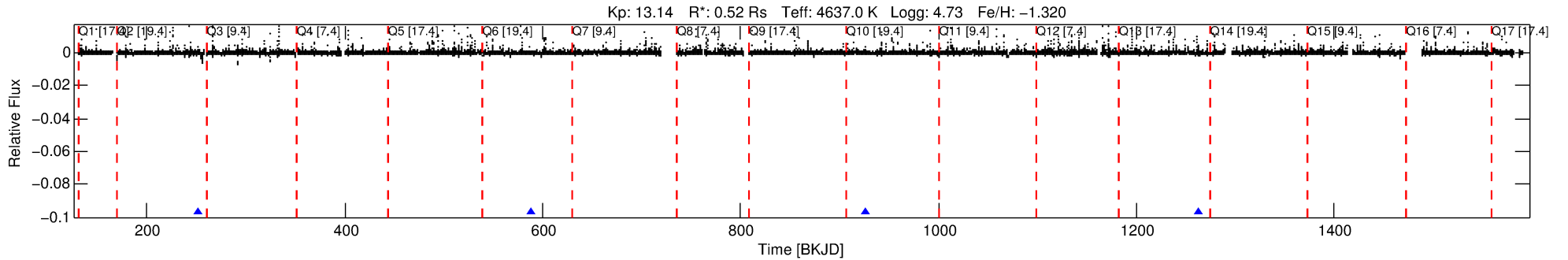
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011190713-05

No Significant Match Found

DV One-Page Summary

KIC: 11190713 Candidate: 5 of 6 Period: 337.185 d



DV Fit Results:

Period = 337.18502 [0.00518] d
Epoch = 251.2243 [0.0087] BKJD
Rp/R* = 0.0281 [0.0513]
a/R* = 679.73 [4787.36]
b = 0.41 [14.54]
Seff = 0.19 [0.03]
Teq = 169 [7] K
Rp = 1.60 [2.93] Re
a = 0.7669 [0.0460] AU
Ag = 94854.90 [346552.21] [0.27 σ]
Teffp = 4579 [4184] K [1.05 σ]

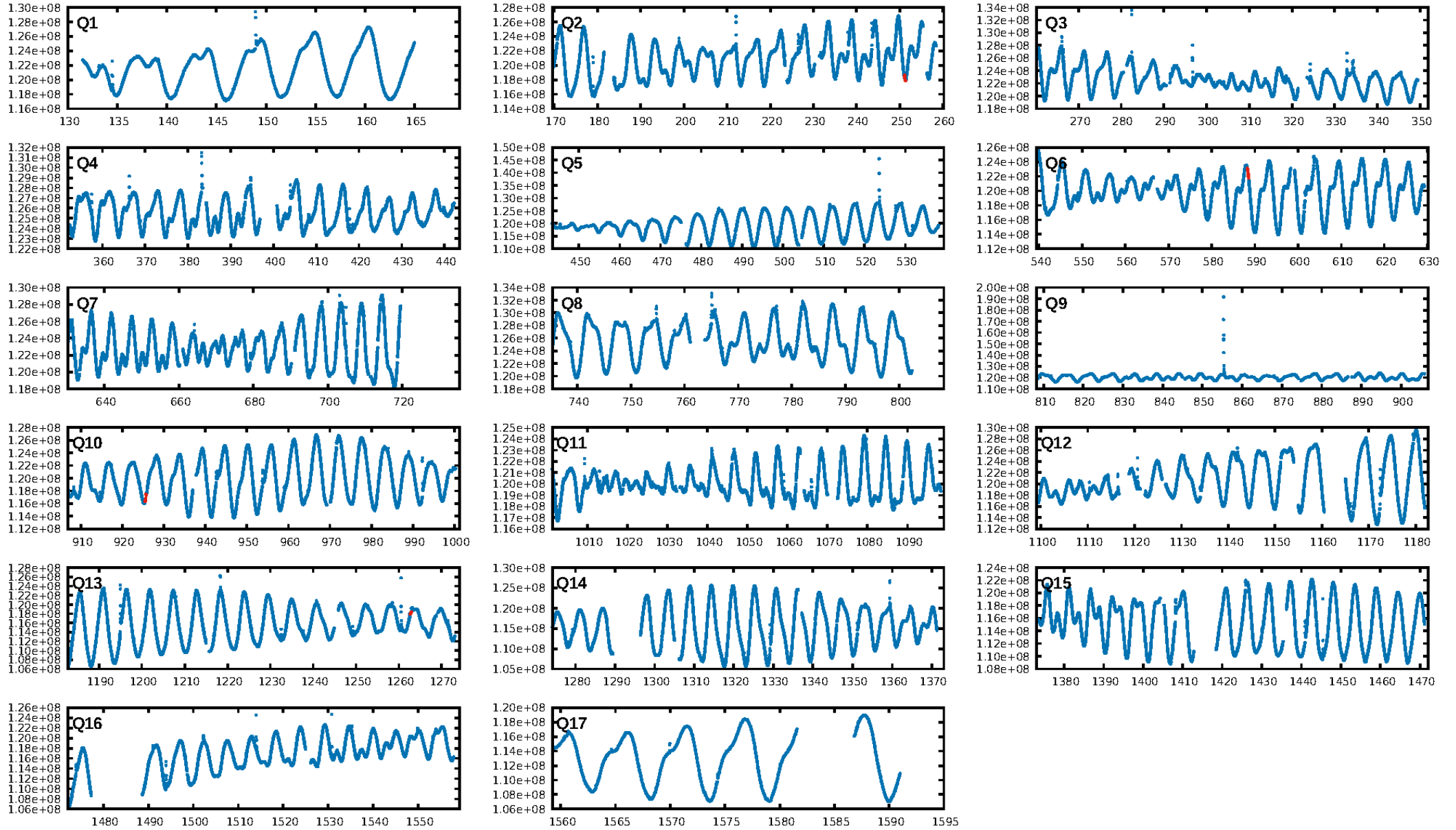
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [296.82 σ]
ModelChiSquare2-sig: 43.0%
ModelChiSquareGof-sig: 7.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 10.27
Centroid-sig: 1.1%
Centroid-so: 0.693 arcsec [1.49 σ]
OotOffset-rm: 0.250 arcsec [2.44 σ]
KicOffset-rm: 0.426 arcsec [2.76 σ]
OotOffset-st: 3/0/0/1 [4]
KicOffset-st: 3/0/0/1 [4]
DiffImageQuality-fgm: 0.75 [3/4]
DiffImageOverlap-fno: 1.00 [4/4]

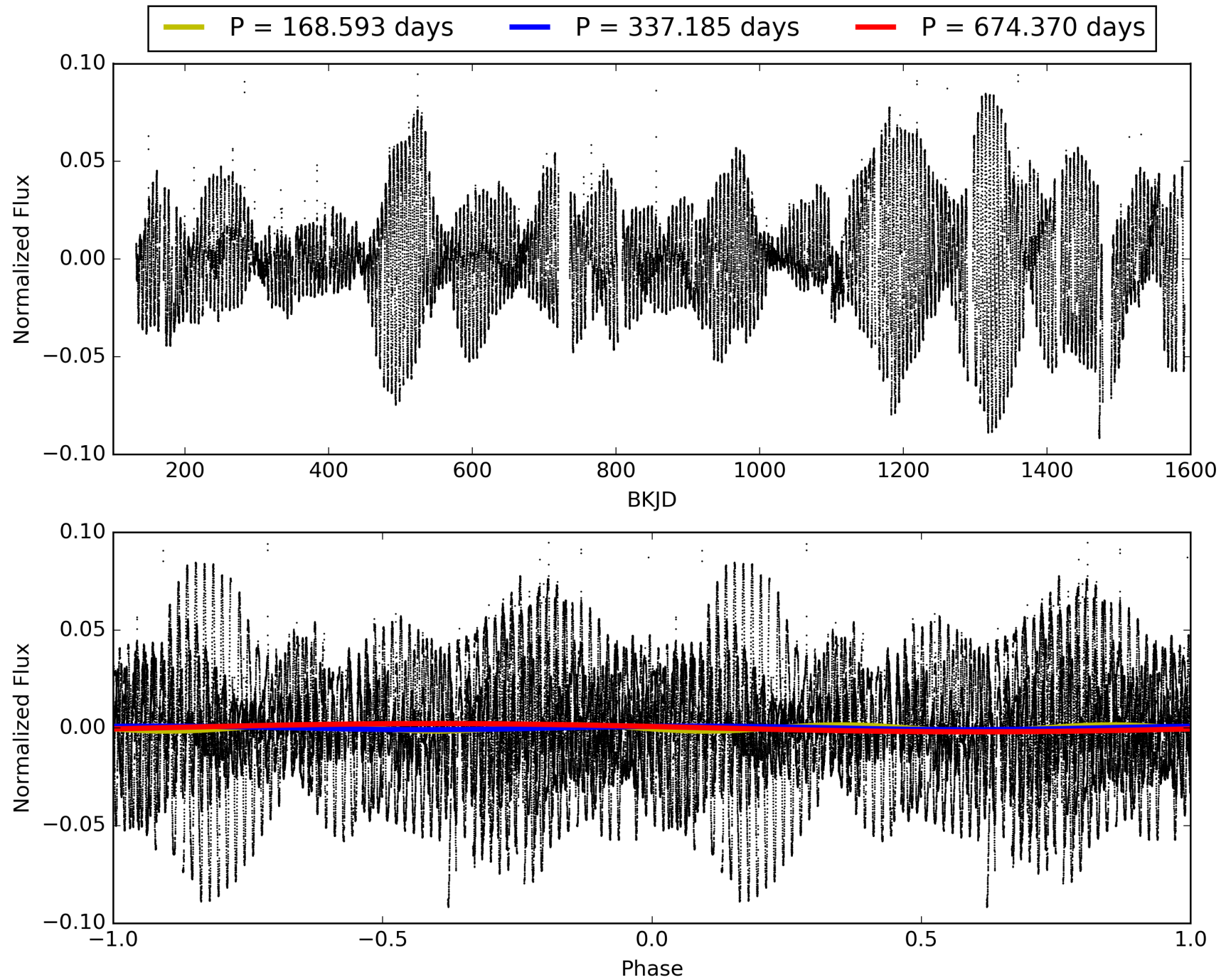
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 06:29:40 Z

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

TCE 011190713-05, PDC Light Curves

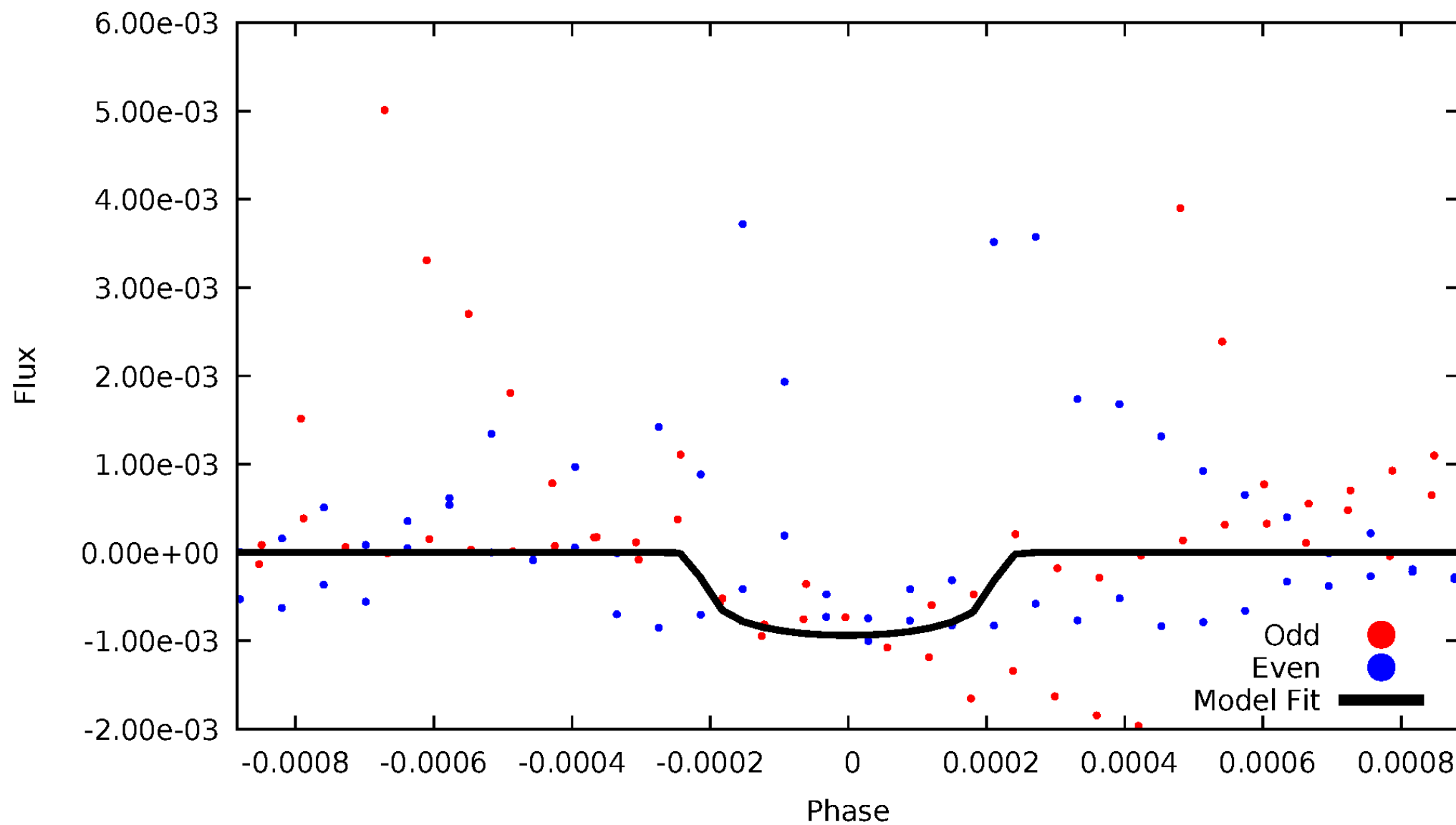


TCE 011190713-05



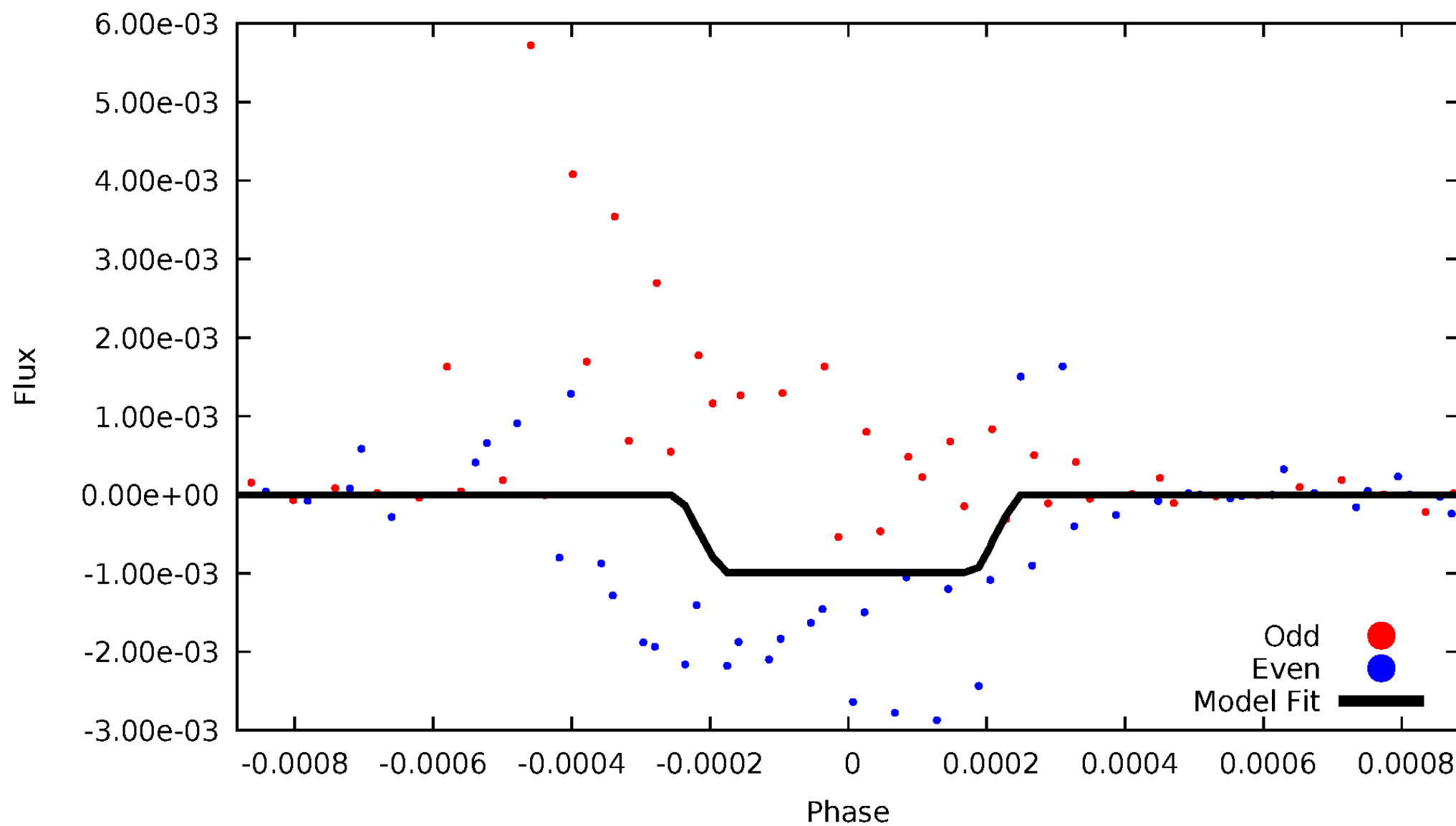
DV Odd/Even

TCE 011190713-05



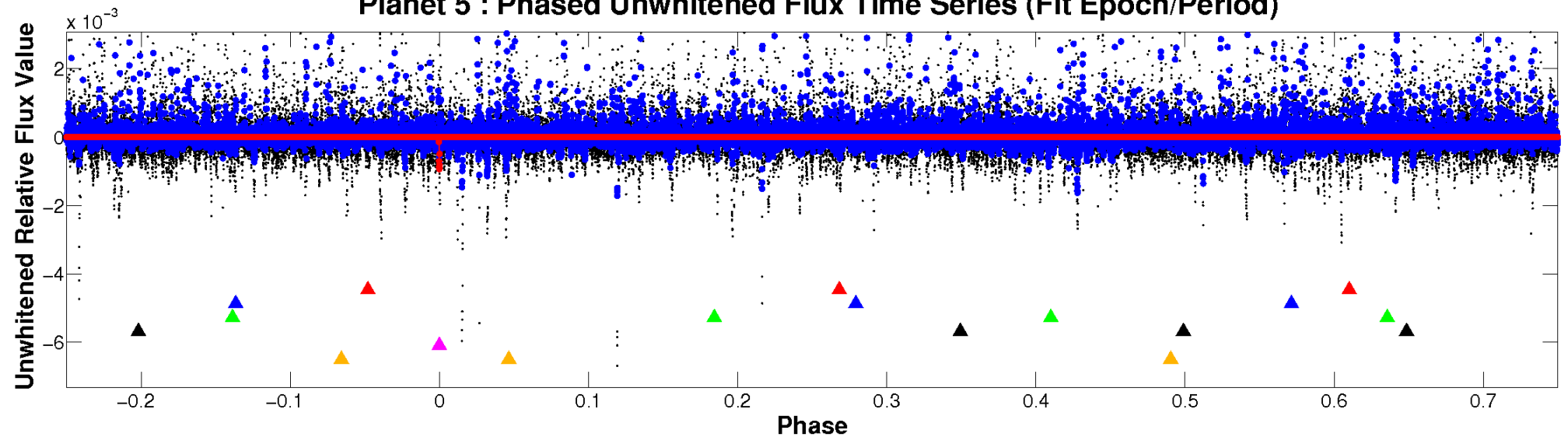
ALT Odd/Even

TCE 011190713-05

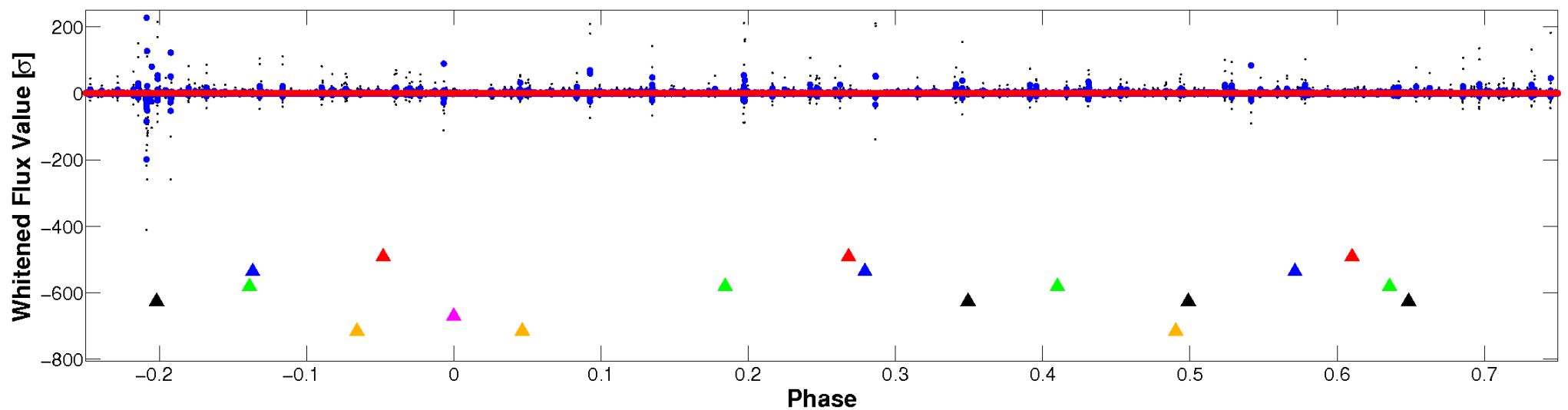


Non-Whitened Vs. Whitened Light Curve

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

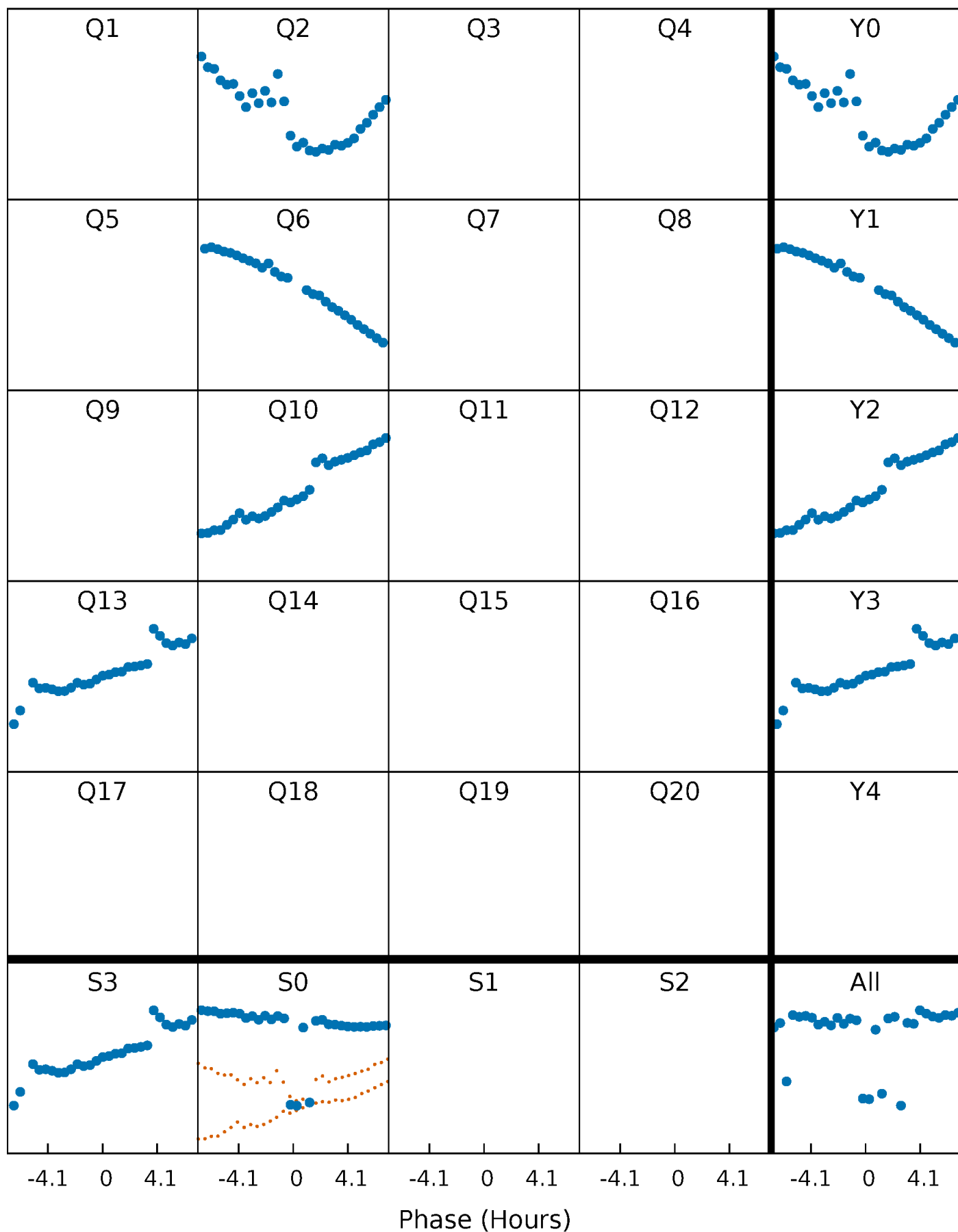


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



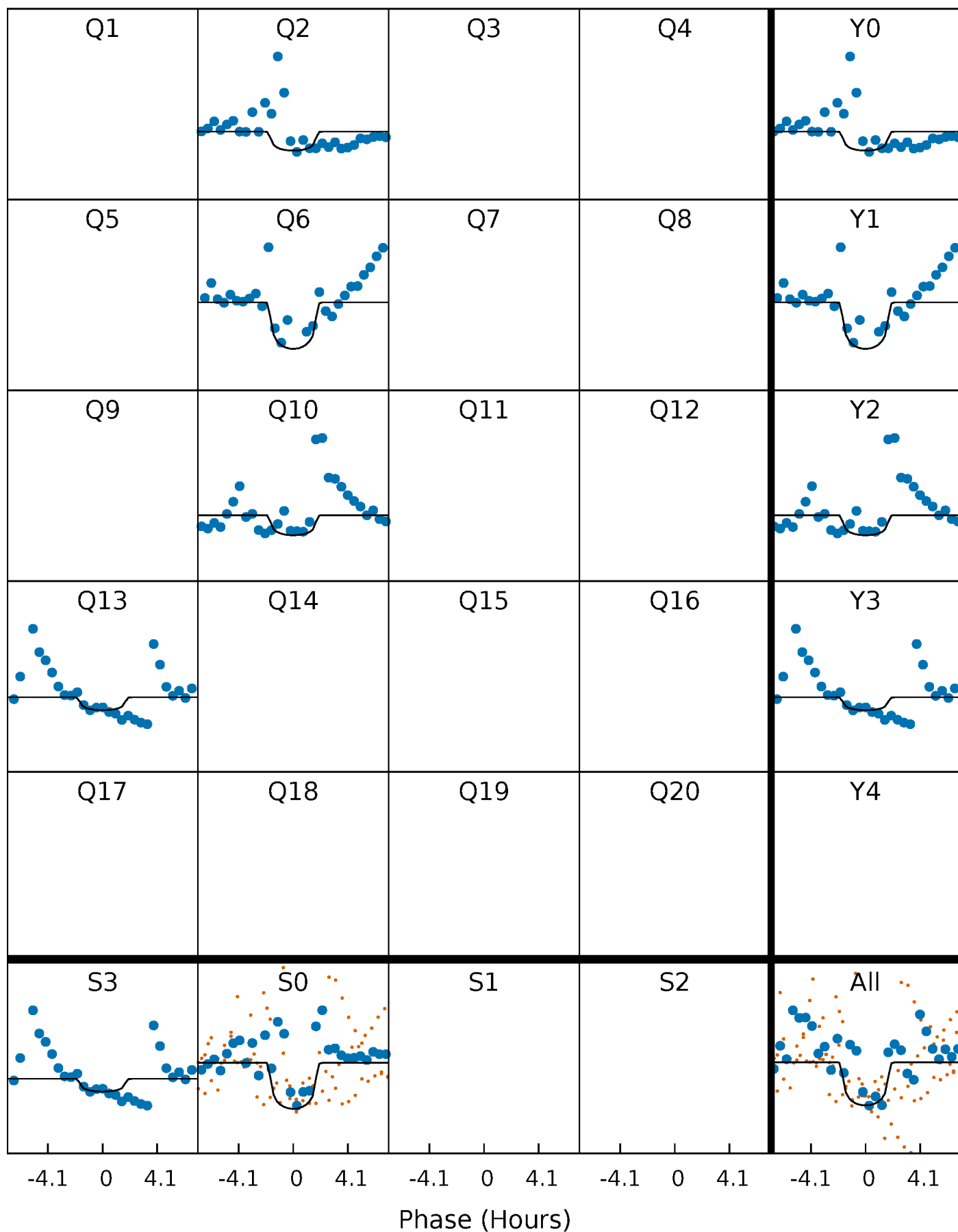
PDC Quarter-Phased Transit Curves

TCE 011190713-05 $P=337.185015$ Days $T_0=251.224302$ (BKJD)



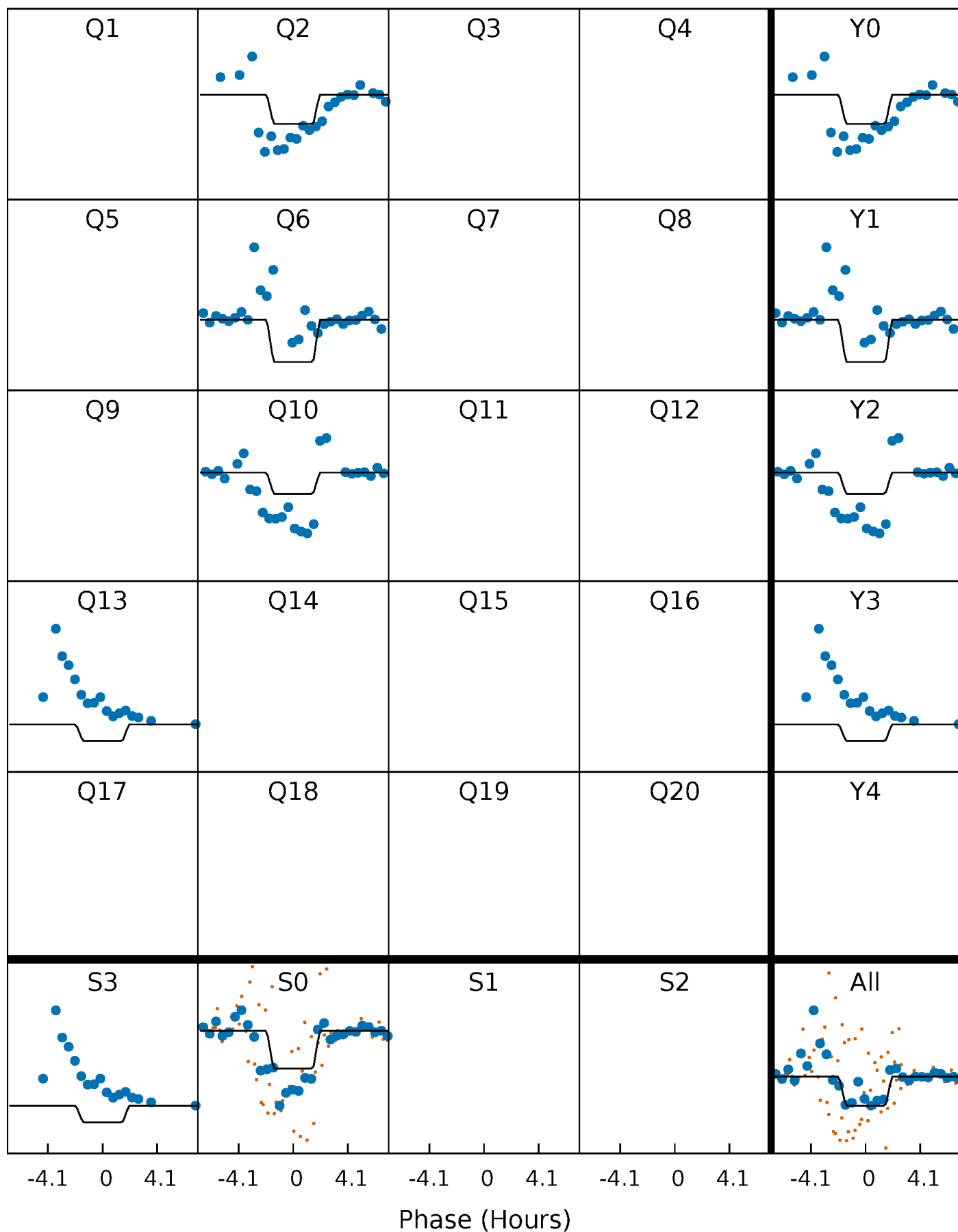
DV Quarter-Phased Transit Curves

TCE 011190713-05 $P=337.185015$ Days $T_0=251.224302$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

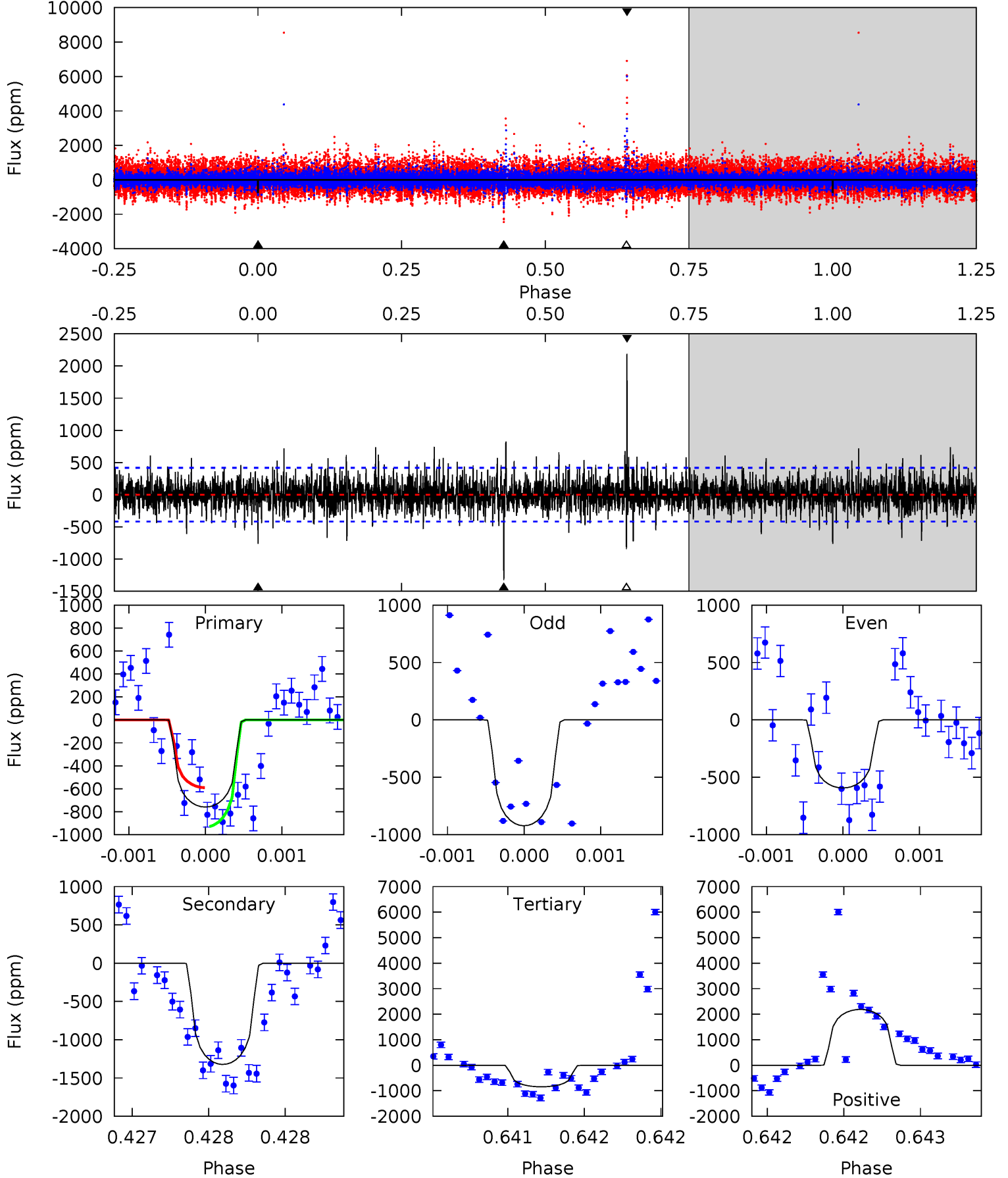
TCE 011190713-05 P=337.126495 Days $T_0=251.328341$ (BKJD)



DV Model-Shift Uniqueness Test

011190713-05, P = 337.185015 Days, E = 251.224302 Days

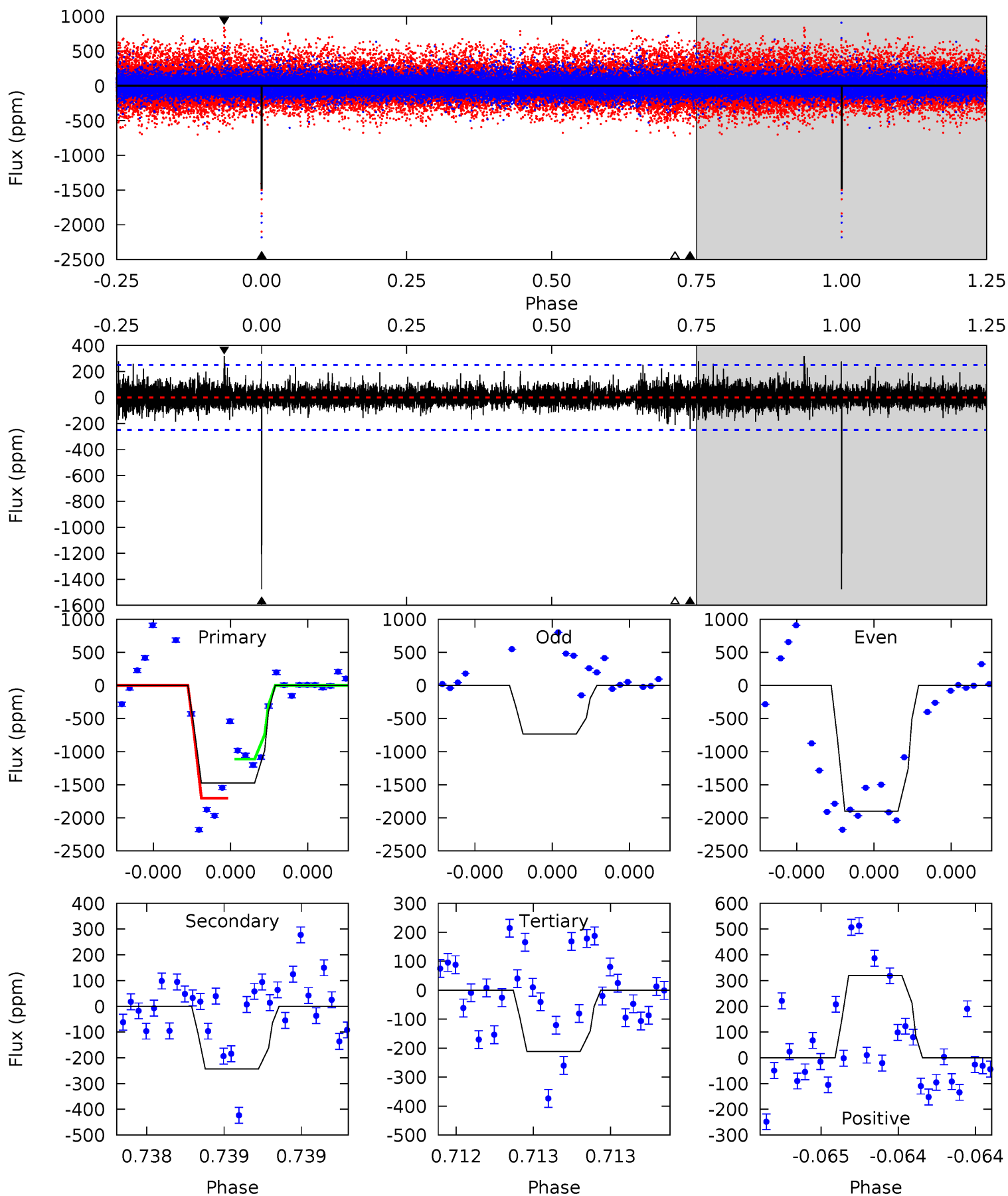
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.1	17.6	11.2	29.2	5.57	3.47	2.19	-1.12	-19.1	6.39	-11.5	1.73	0.85	0.62	2.29



Alt Model-Shift Uniqueness Test

011190713-05, P = 337.126495 Days, E = 251.328341 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
32.9	5.42	4.71	7.12	5.59	3.50	1.00	28.2	25.8	0.71	-1.70	16.3	0.91	0.18	6.55



Stellar Parameters For KIC 011190713

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4637^{+138}_{-152}	$4.726^{+0.052}_{-0.024}$	$-1.320^{+0.300}_{-0.300}$	$0.522^{+0.028}_{-0.035}$	$0.528^{+0.035}_{-0.026}$	$5.231^{+1.032}_{-0.592}$
	+3%/-3%	+1%/-1%	+23%/-23%	+5%/-7%	+7%/-5%	+20%/-11%
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 011190713-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1323 ± 75	$2.60^{+2.34}_{-1.68}$	235^{+7}_{-9}	4239^{+2641}_{-874}	$63532^{+480441}_{-45928}$
Alt.	-243 ± 45	$2.75^{+2.53}_{-1.80}$	234^{+8}_{-8}	3119^{+1305}_{-507}	9974^{+72840}_{-7284}

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

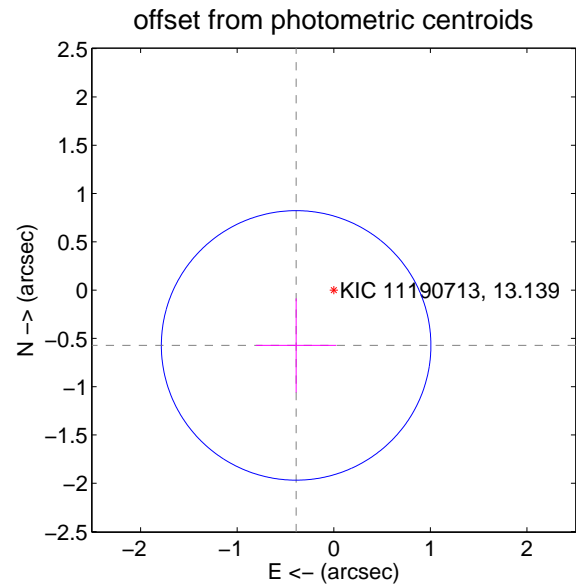
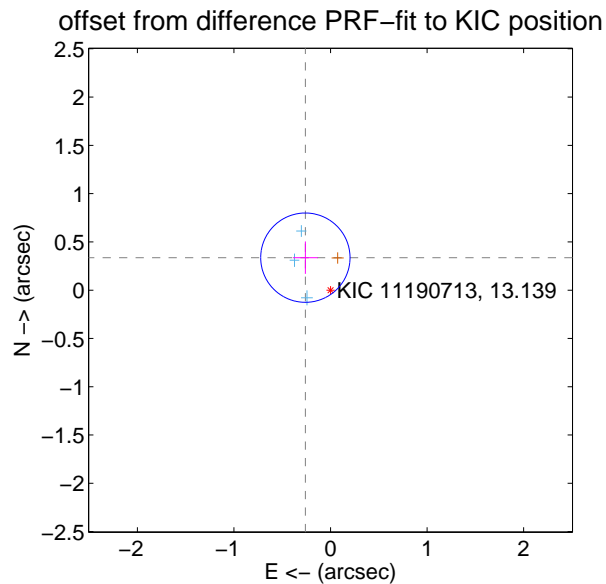
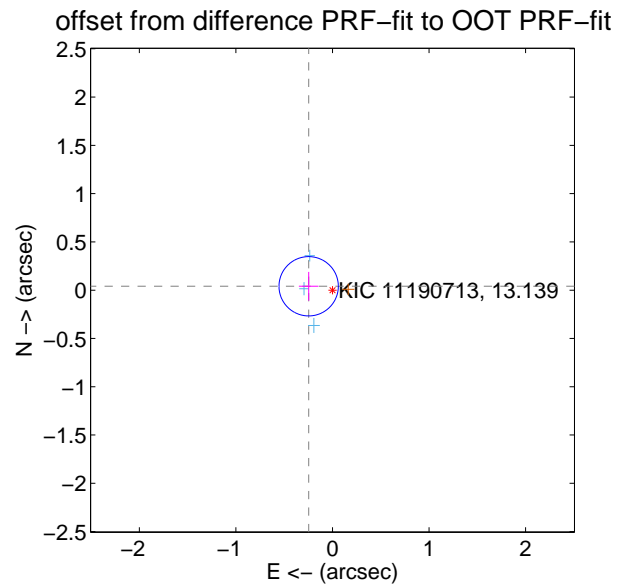
DV Centroid Data

Supplemental centroid analysis for 011190713-05. Kepler magnitude: 13.14. Transit SNR 6.75

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.29 arcsec

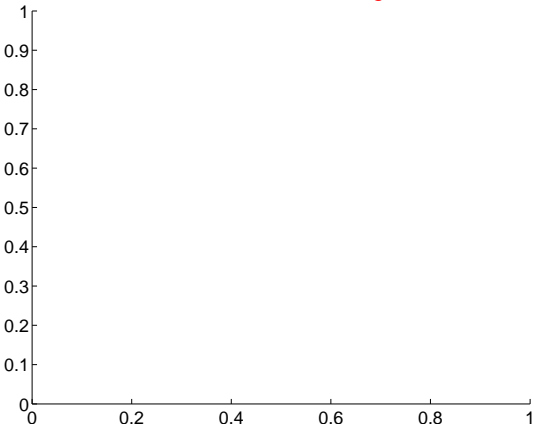
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.250 ± 0.102	2.44	0.247 ± 0.101	0.040 ± 0.149
PRF-fit source offset from KIC position	0.426 ± 0.154	2.76	0.260 ± 0.128	0.337 ± 0.168
photometric centroid source offset	0.69 ± 0.47	1.49	0.39 ± 0.42	-0.57 ± 0.49



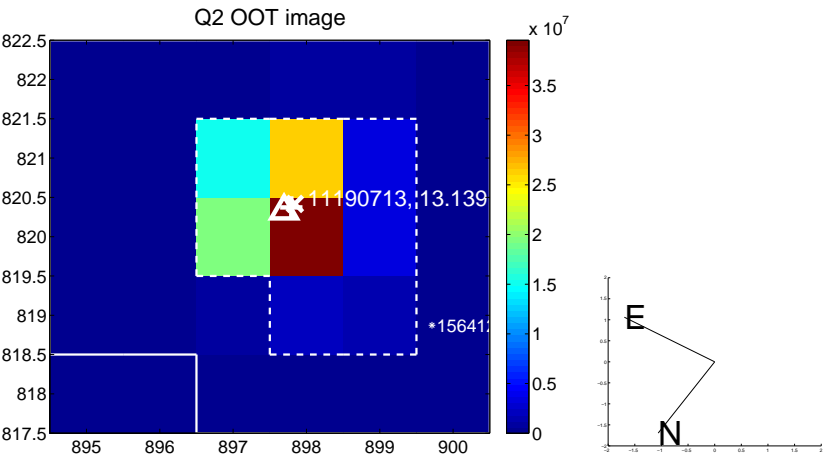
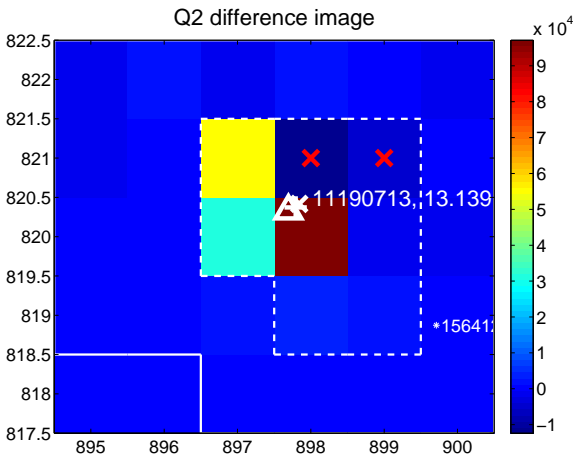
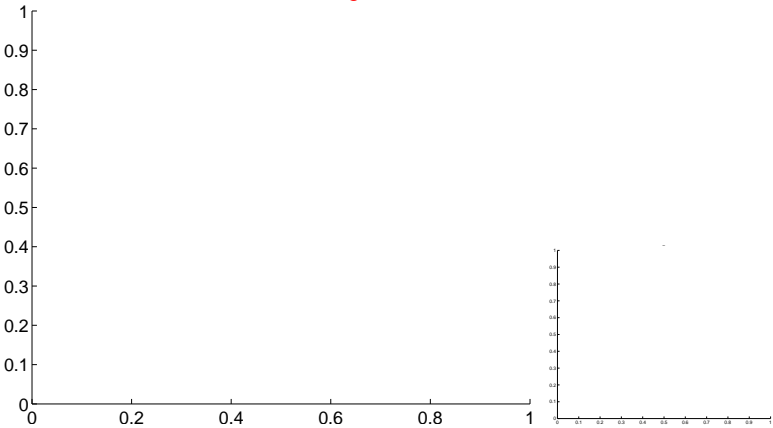
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

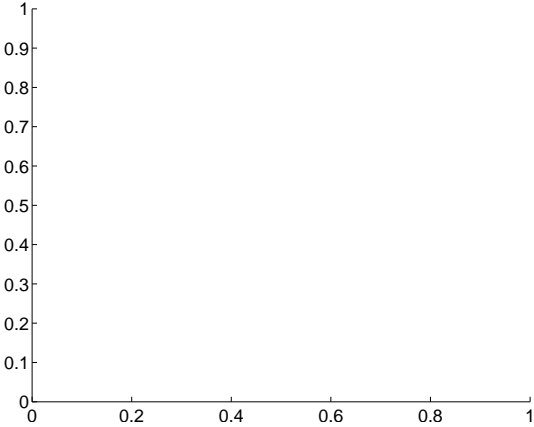
Q1 no difference image



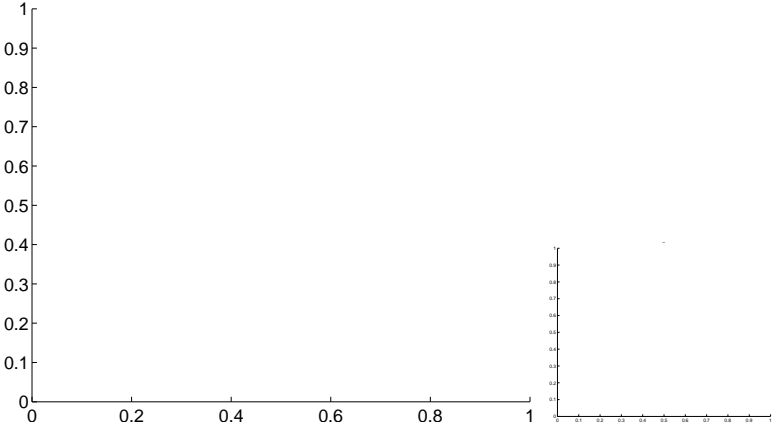
Q1 no OOT image



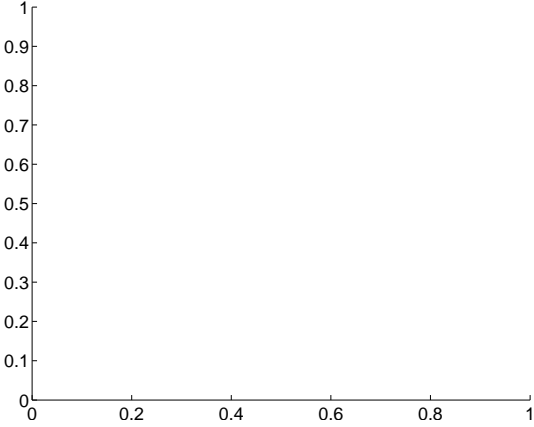
Q3 no difference image



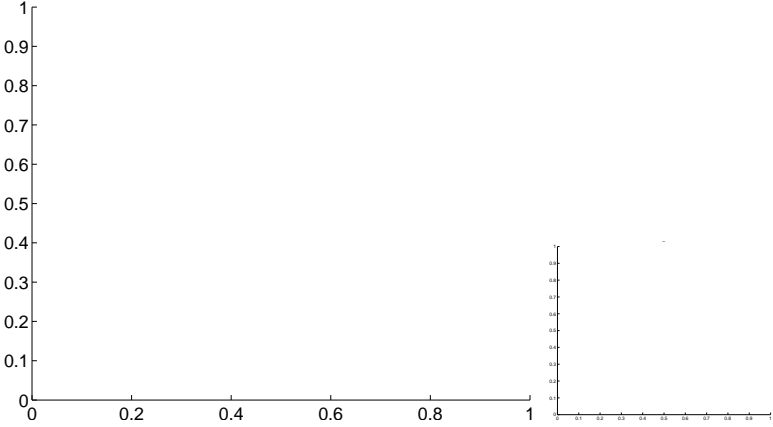
Q3 no OOT image



Q4 no difference image

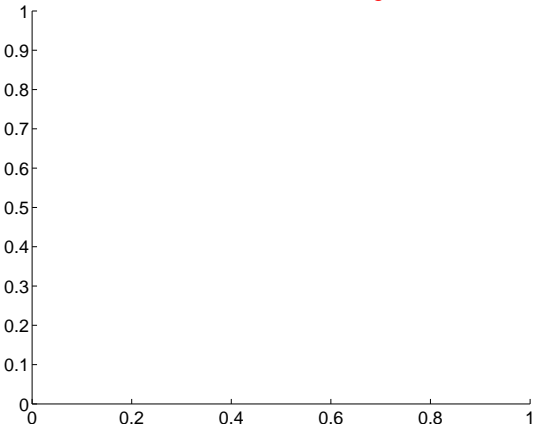


Q4 no OOT image

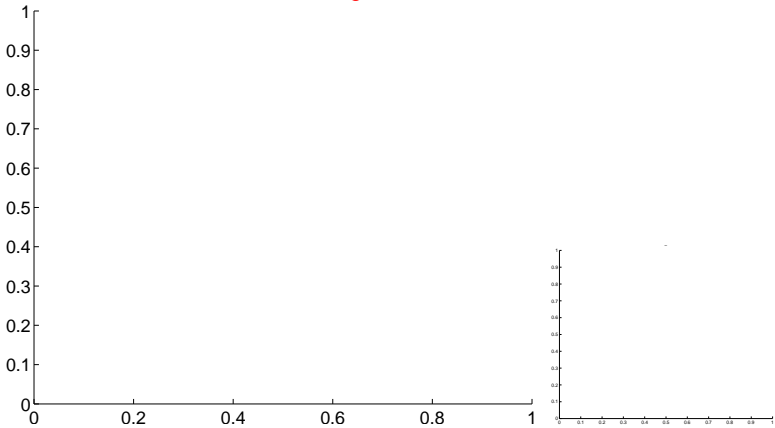


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.

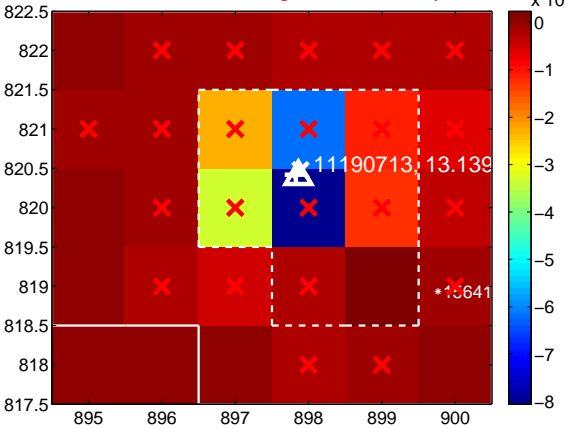
Q5 no difference image



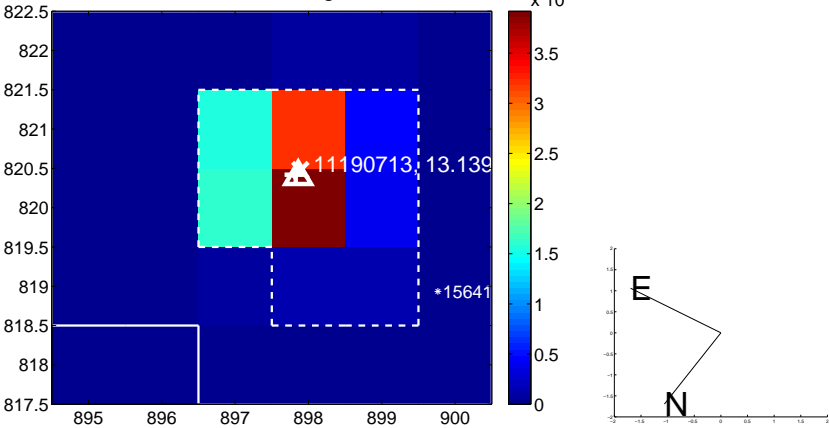
Q5 no OOT image



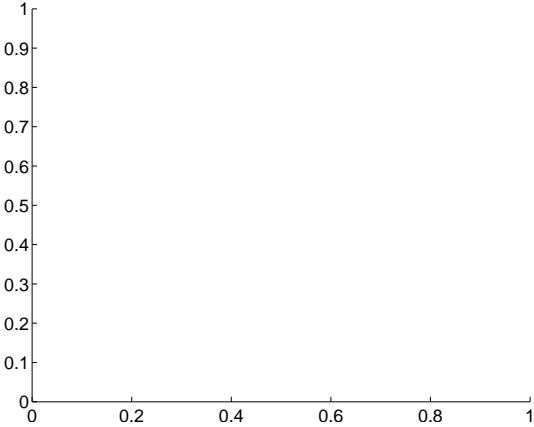
Q6 difference image. Poor Quality



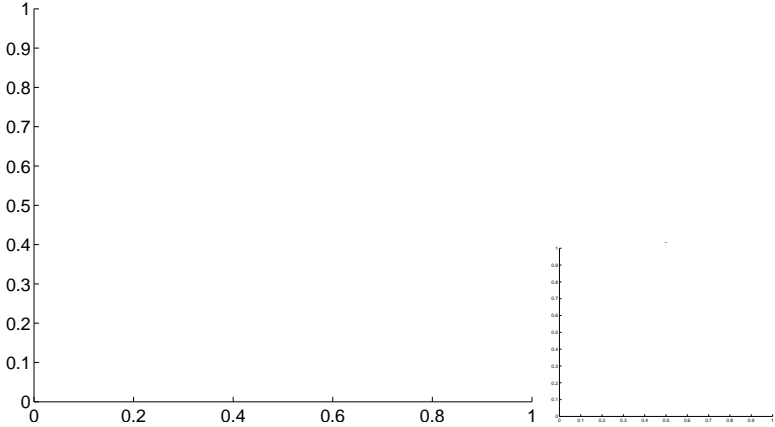
Q6 OOT image



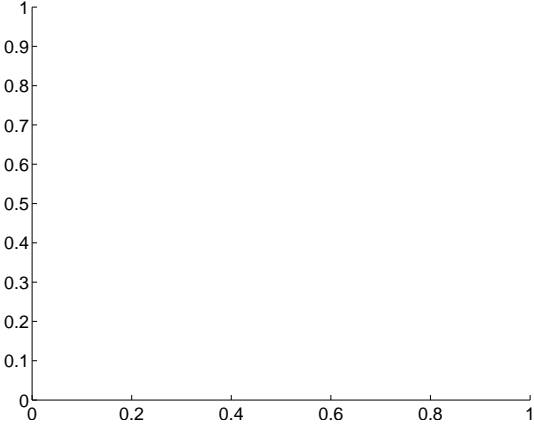
Q7 no difference image



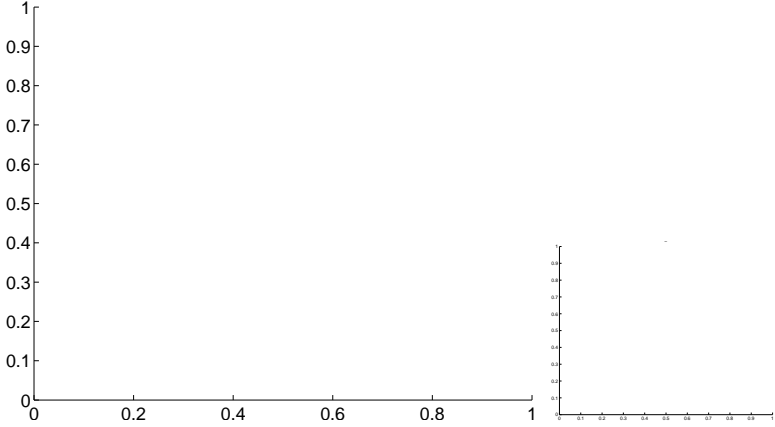
Q7 no OOT image



Q8 no difference image

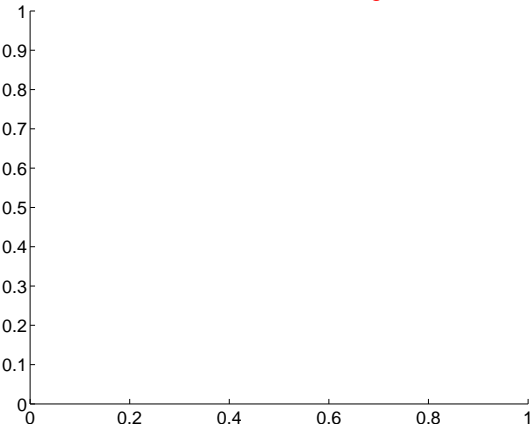


Q8 no OOT image

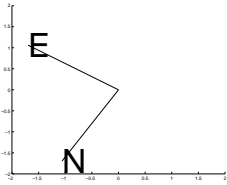
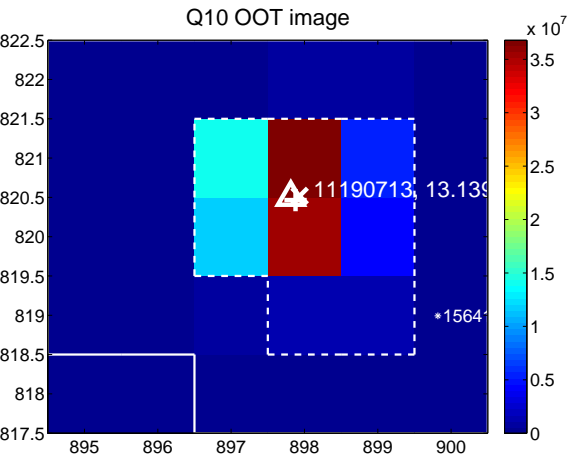
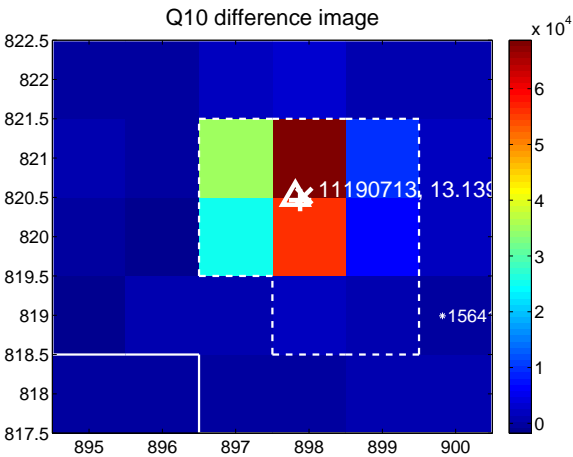
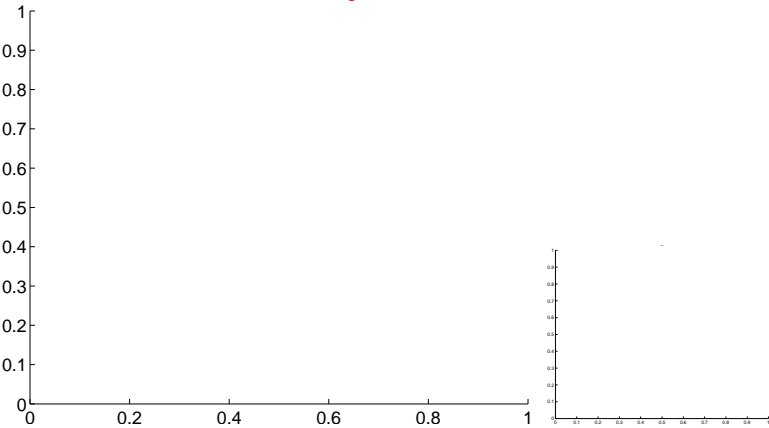


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

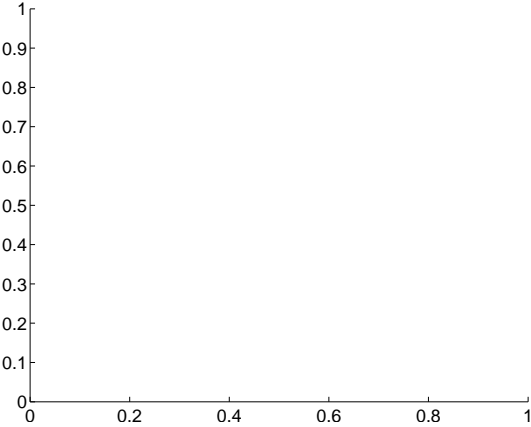
Q9 no difference image



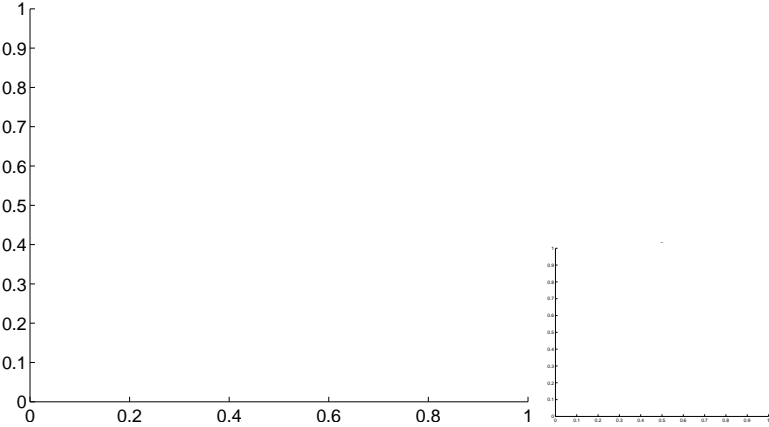
Q9 no OOT image



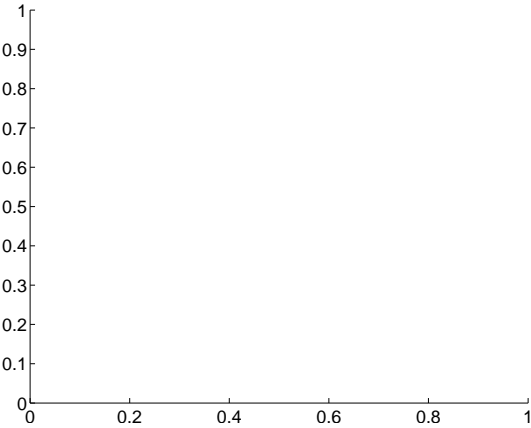
Q11 no difference image



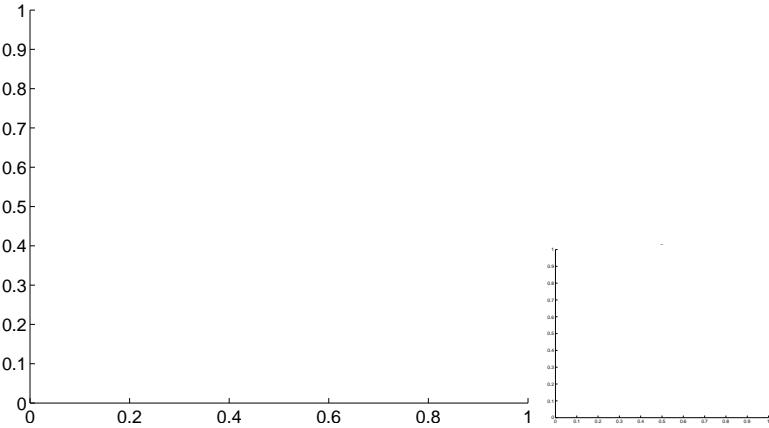
Q11 no OOT image



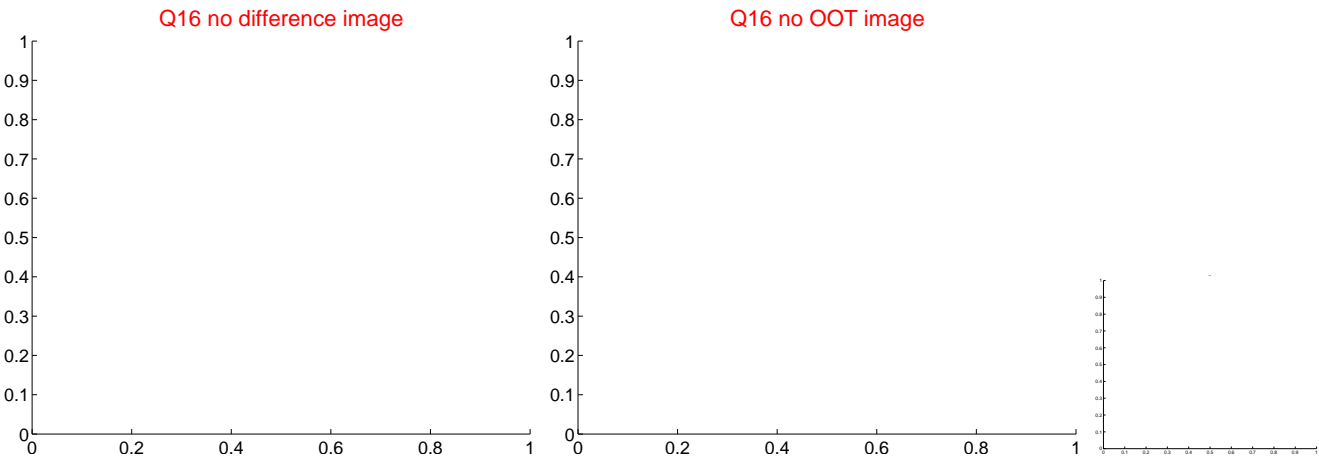
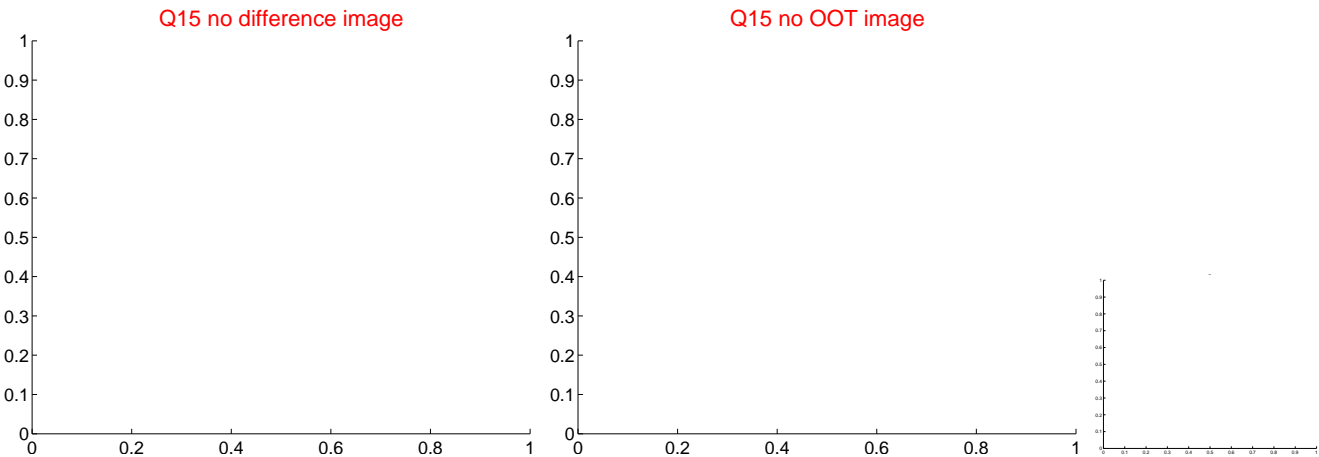
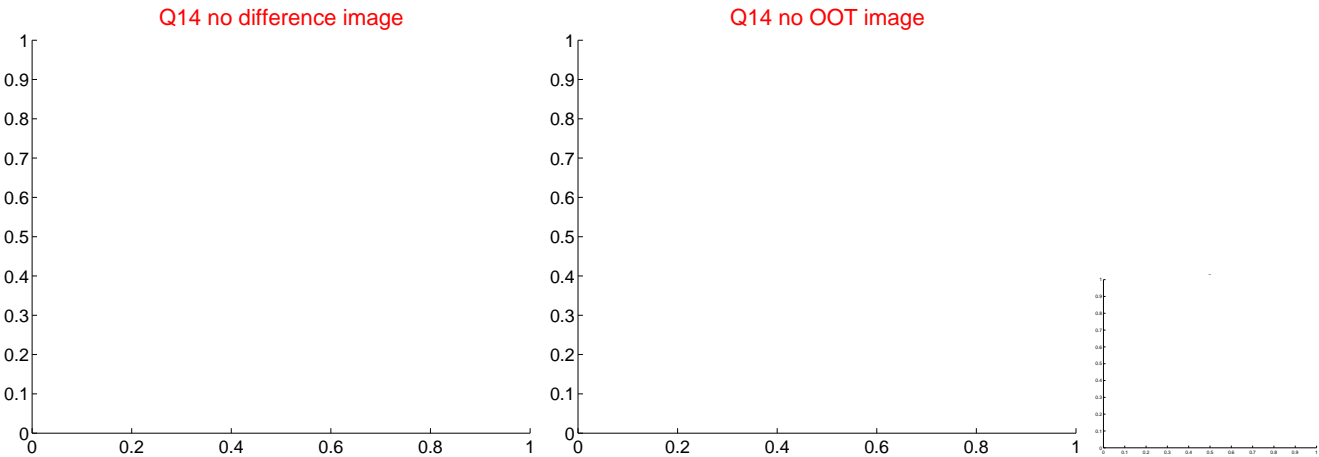
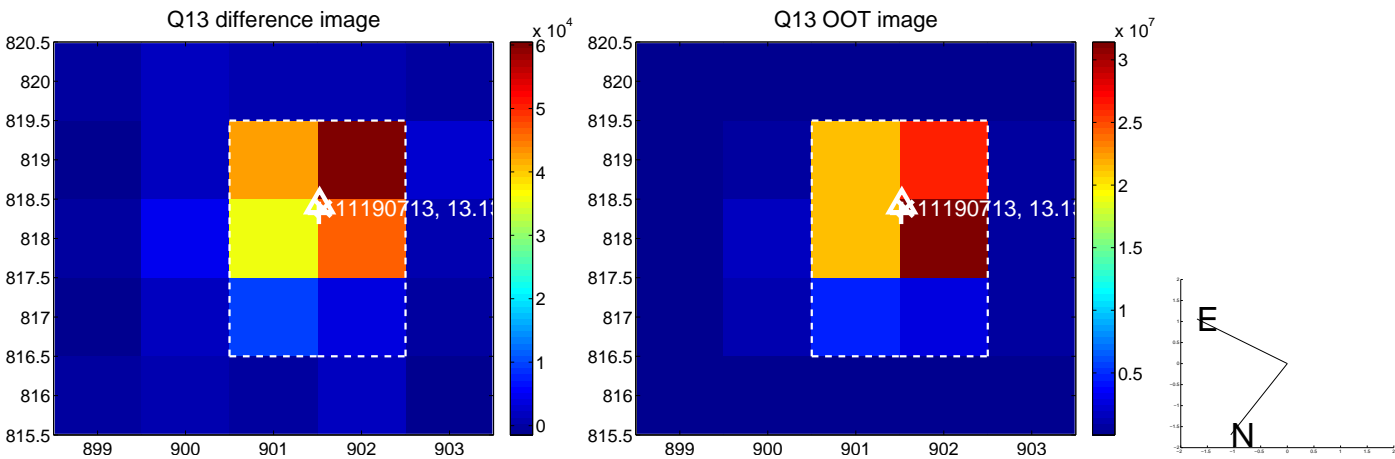
Q12 no difference image



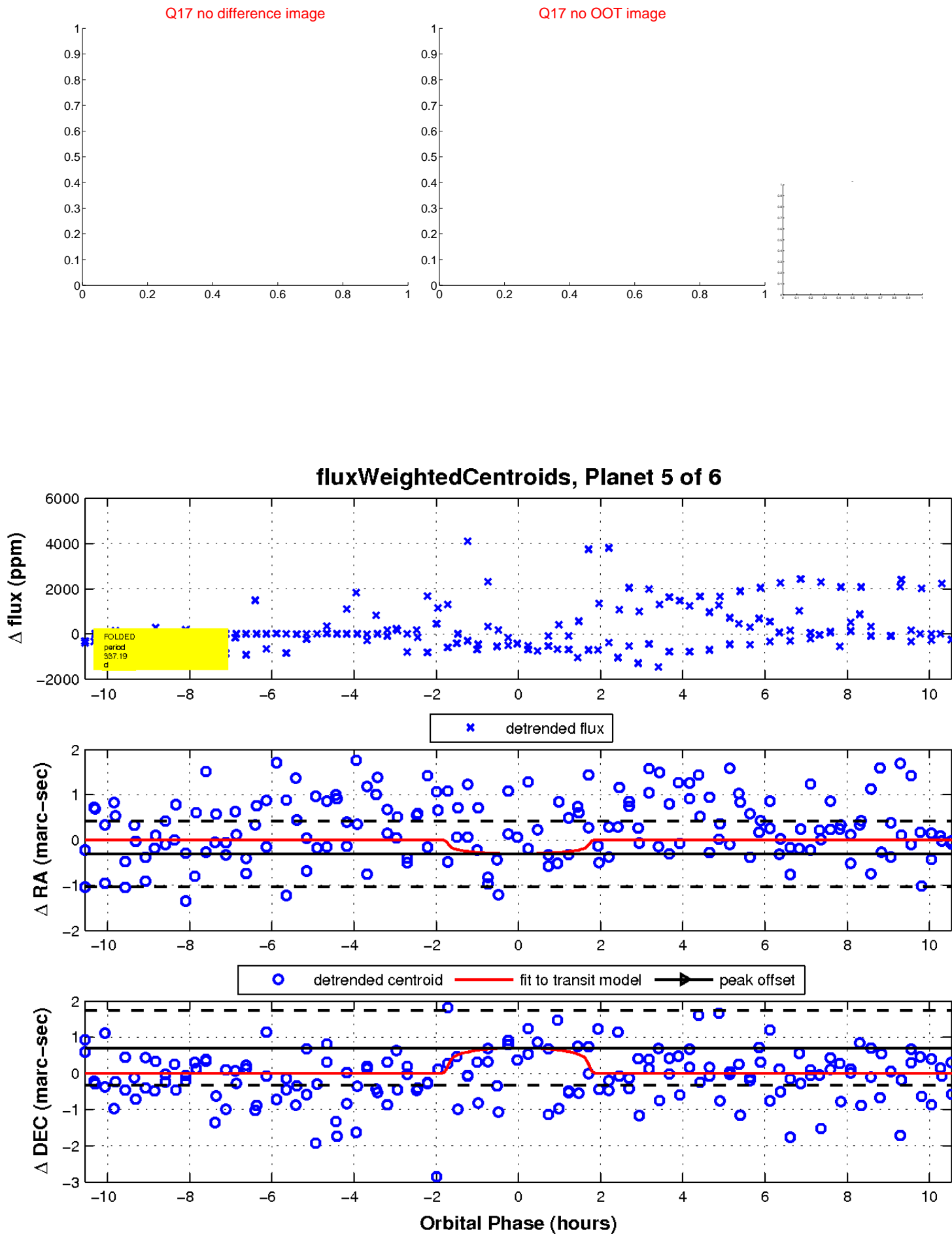
Q12 no OOT image



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

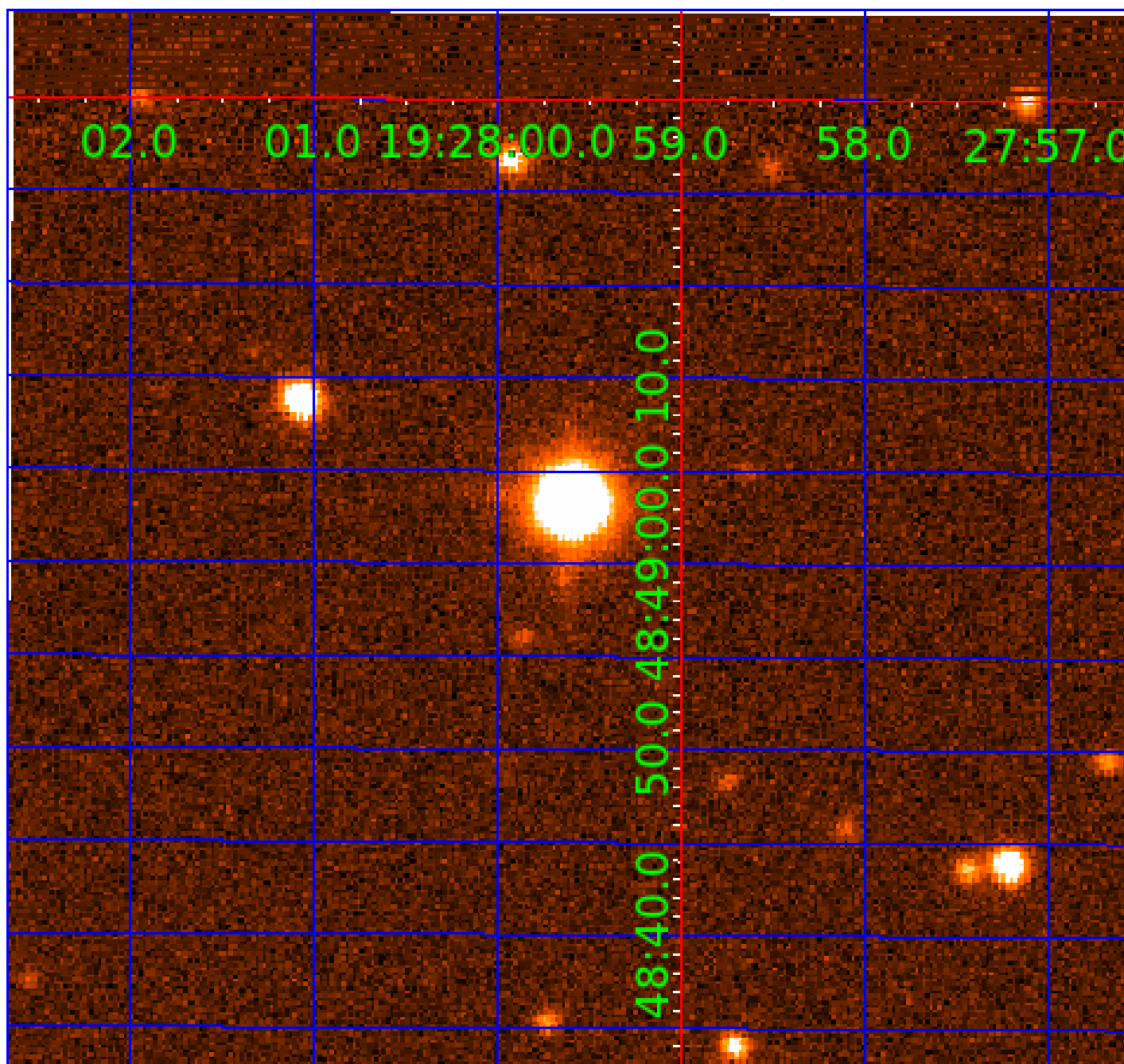


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011190713

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})
011190713-01	OBS	No	559.067285	235.074349	1066.4	3.528	17.4	7.0	0.52	4637	1.72	0.10
011190713-03	OBS	No	413.266373	313.398125	298.5	1.707	16.3	2.2	0.52	4637	1.00	0.15
011190713-04	OBS	No	387.634484	369.016368	589.3	1.958	16.4	4.3	0.52	4637	1.39	0.16
011190713-05	OBS	No	337.185015	251.224302	938.1	3.578	14.8	6.7	0.52	4637	1.60	0.19
011190713-06	OBS	No	486.849363	266.926009	1396.7	5.272	18.2	8.2	0.52	4637	2.04	0.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011190713-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—INCONSISTENT_TRANS
011190713-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011190713-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—HALO_GHOST
011190713-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_SKYE_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011190713-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

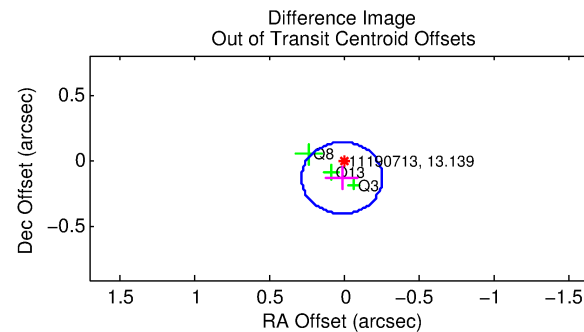
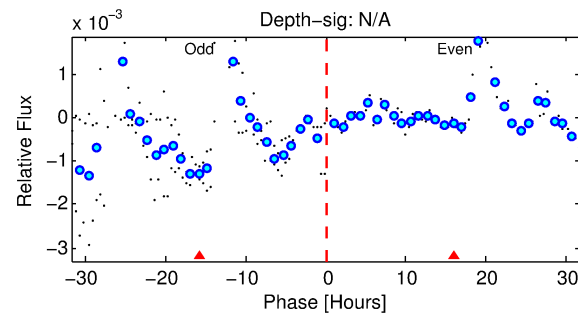
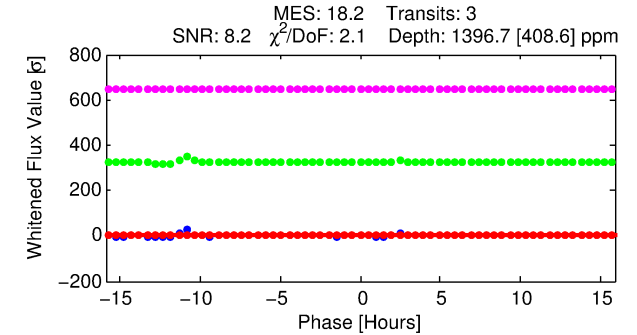
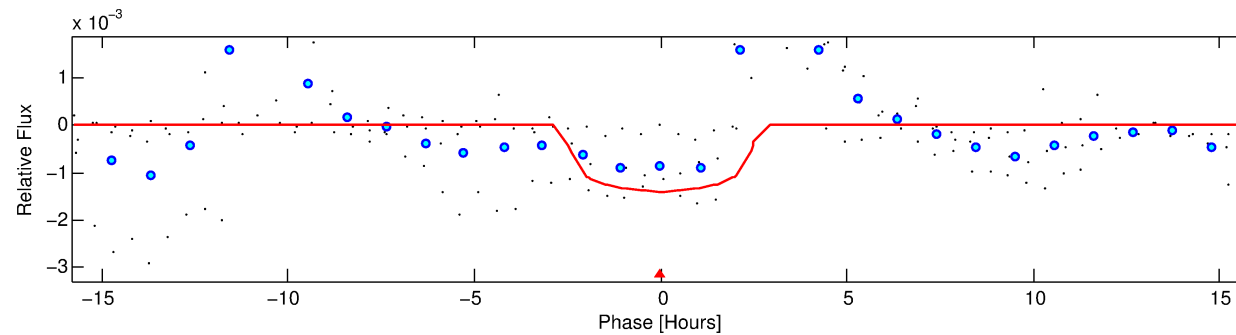
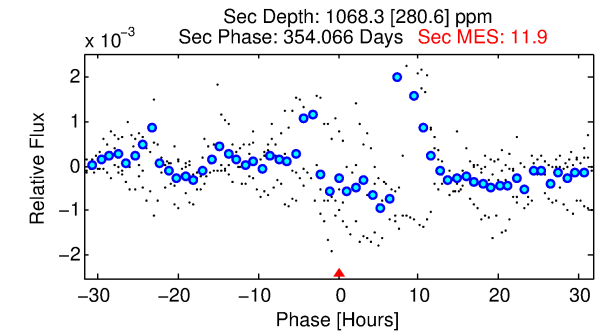
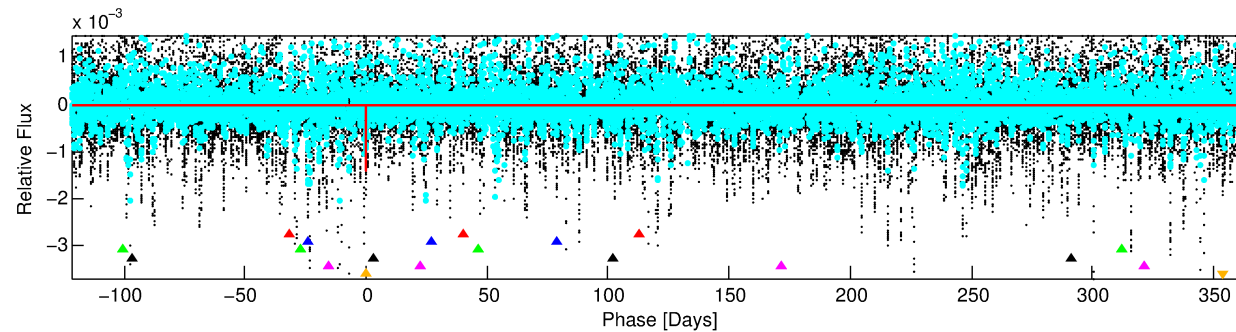
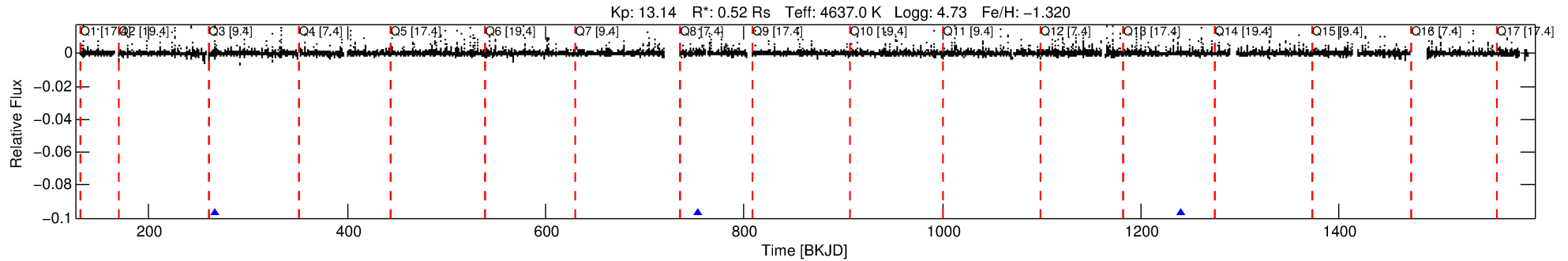
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011190713-06

No Significant Match Found

DV One-Page Summary

KIC: 11190713 Candidate: 6 of 6 Period: 486.849 d



DV Fit Results:

Period = 486.84936 [0.00705] d
Epoch = 266.9260 [0.0094] BKJD
Rp/R* = 0.0359 [0.2061]
a/R* = 572.13 [13150.37]
b = 0.64 [21.11]
Seff = 0.12 [0.02]
Teq = 149 [6] K
Rp = 2.04 [11.74] Re
a = 0.9797 [0.0587] AU
Ag = 134920.28 [1550024.41] [0.09]
Teffp = 4425 [12709] K [0.34]

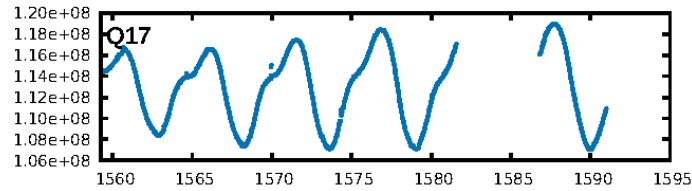
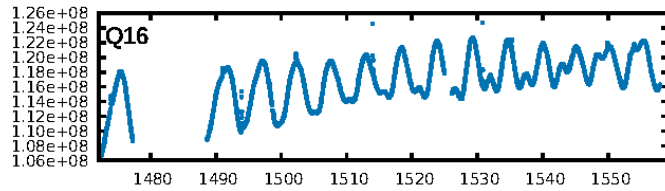
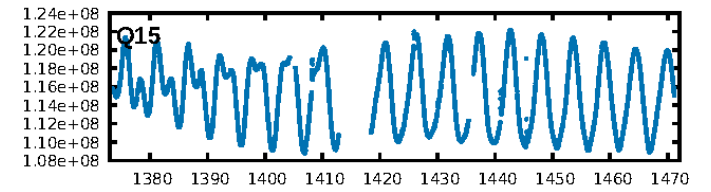
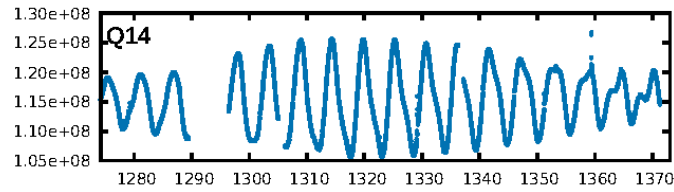
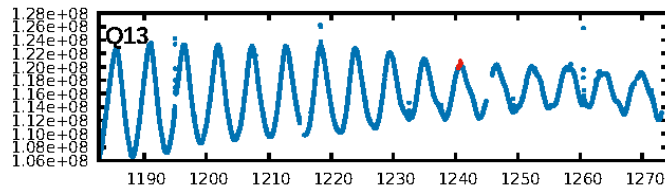
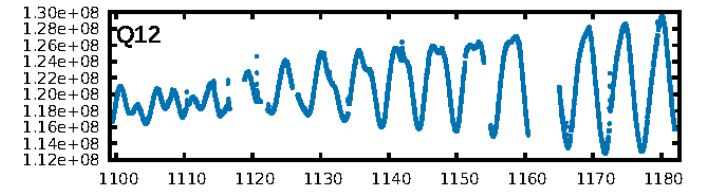
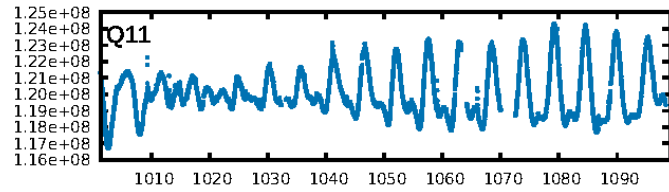
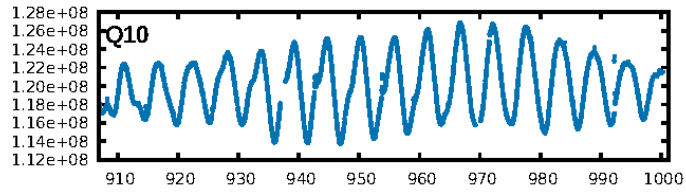
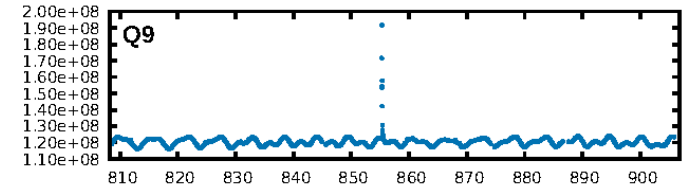
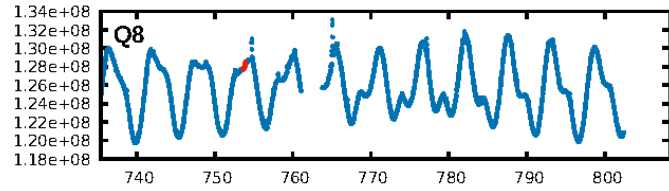
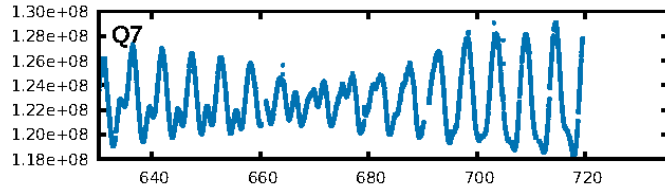
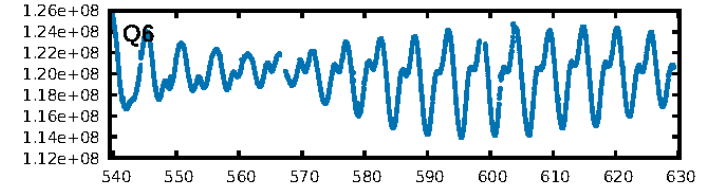
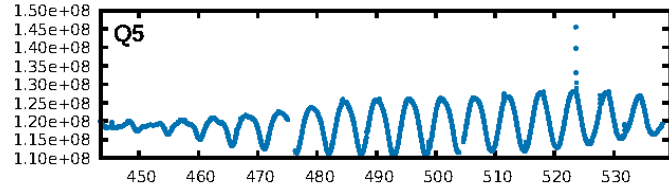
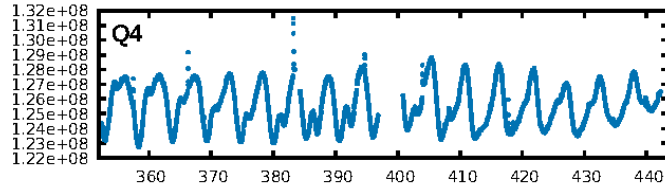
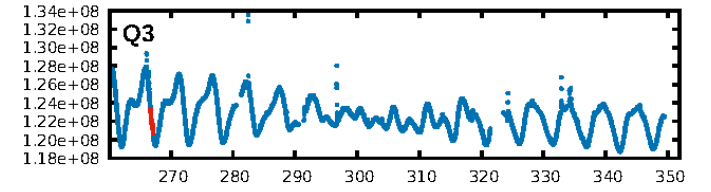
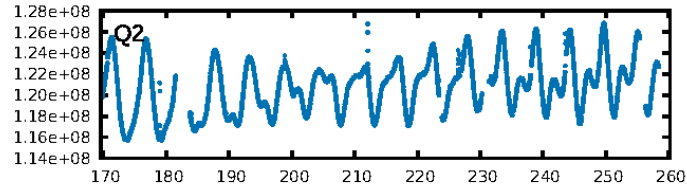
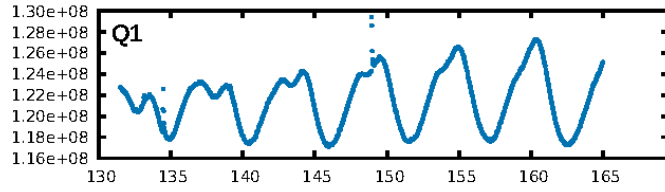
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [204.92]
LongPeriod-sig: 100.0% [273.24]
ModelChiSquare2-sig: 0.4%
ModelChiSquareGof-sig: 53.2%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -2.682
Centroid-sig: 61.9%
Centroid-so: 0.174 arcsec [0.63]
OotOffset-rm: 0.128 arcsec [1.42]
OotOffset-st: 0/1/1/1 [3]
KicOffset-rm: 0.108 arcsec [0.87]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

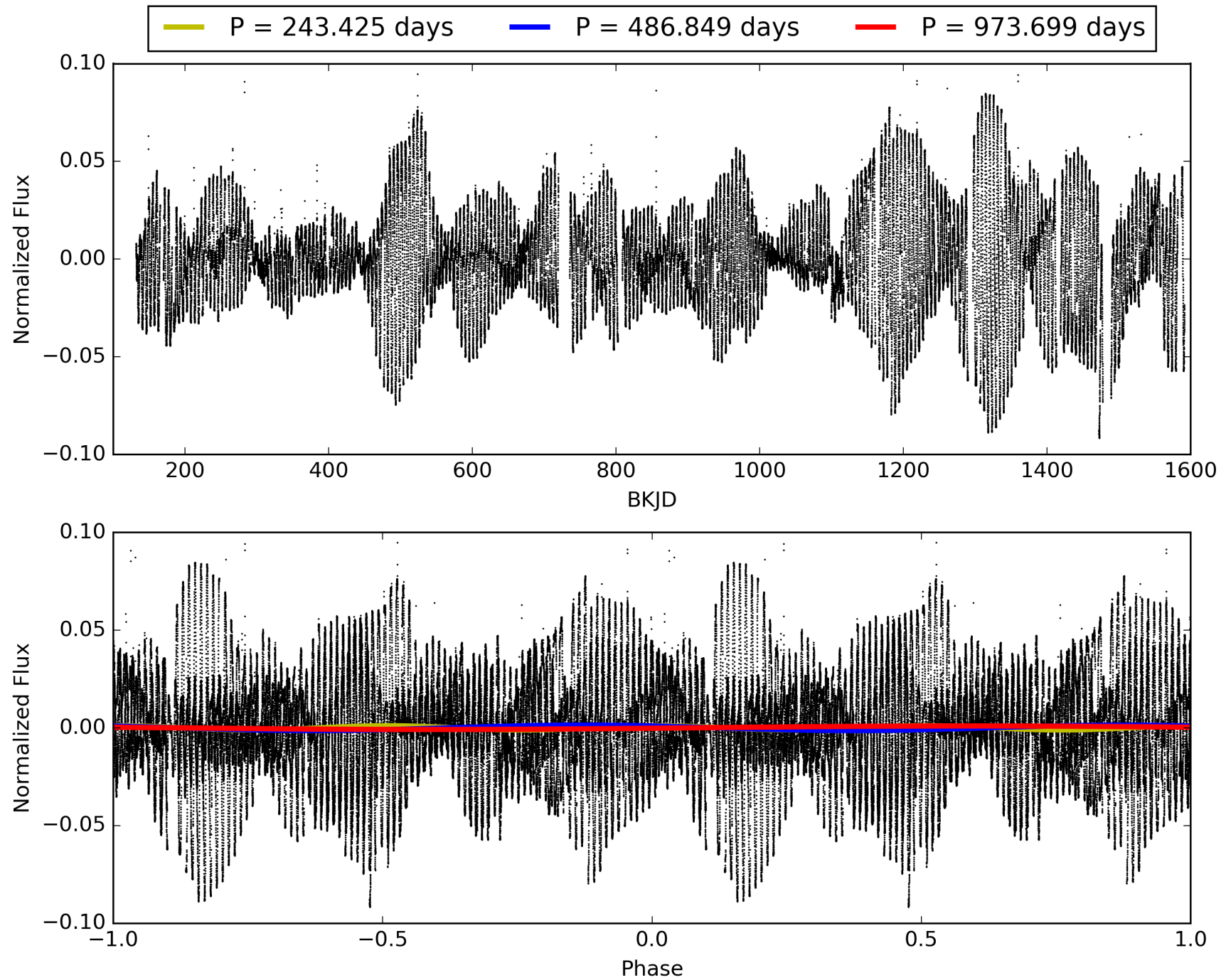
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 06:29:54 Z

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

TCE 011190713-06, PDC Light Curves

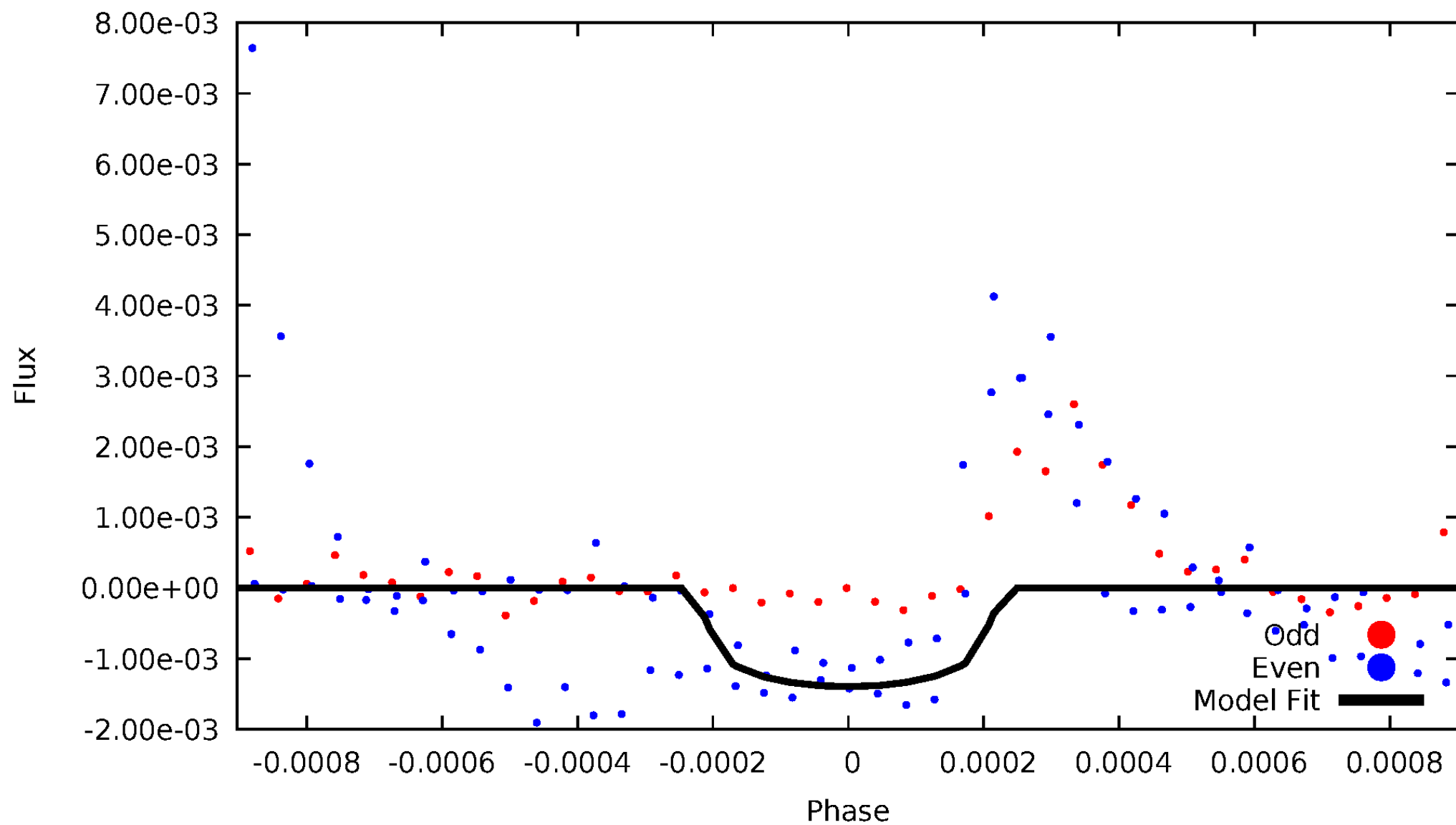


TCE 011190713-06



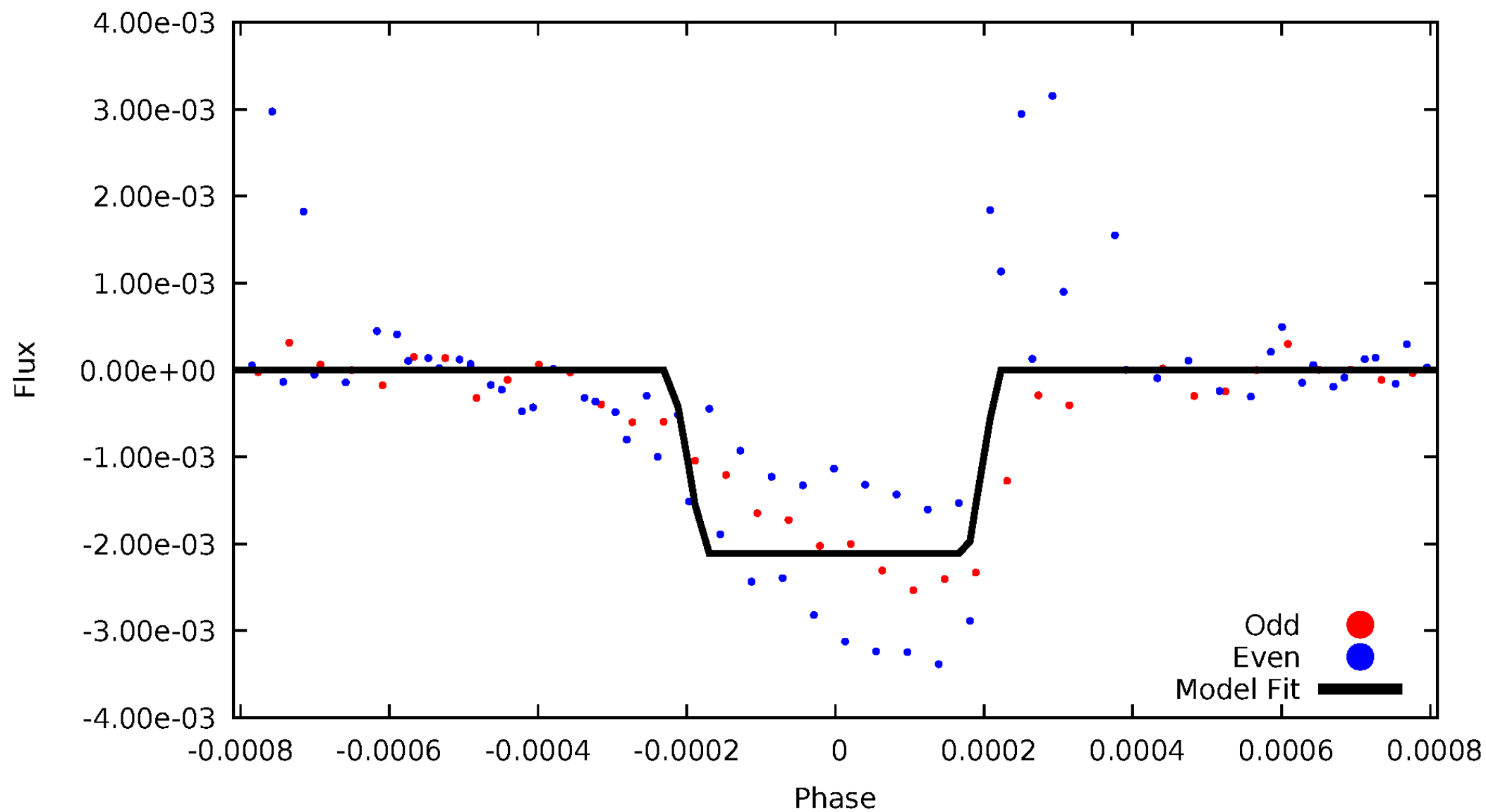
DV Odd/Even

TCE 011190713-06



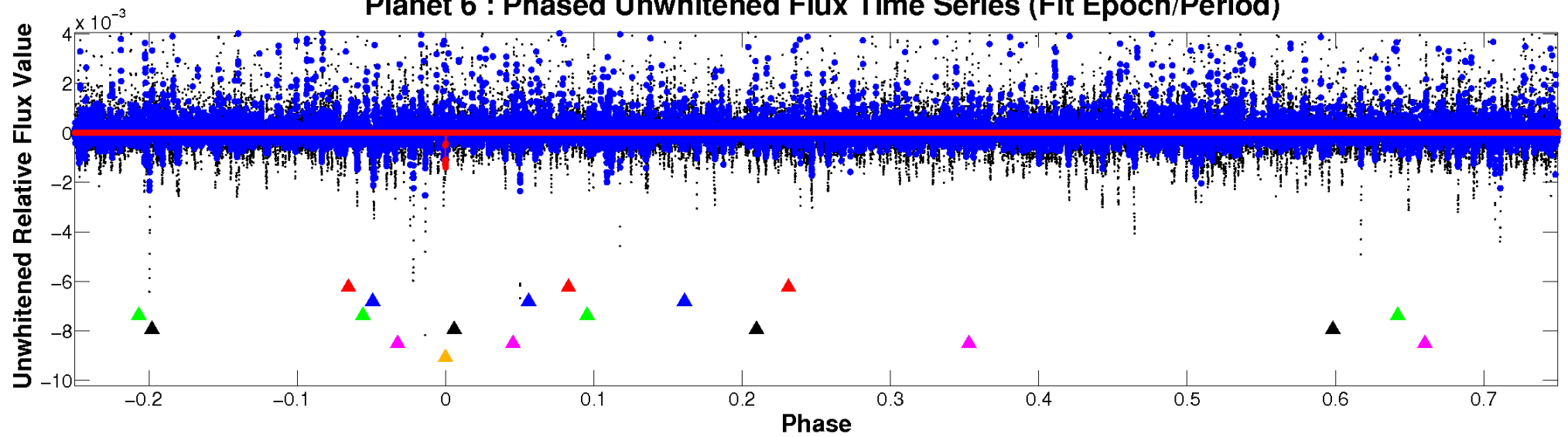
ALT Odd/Even

TCE 011190713-06

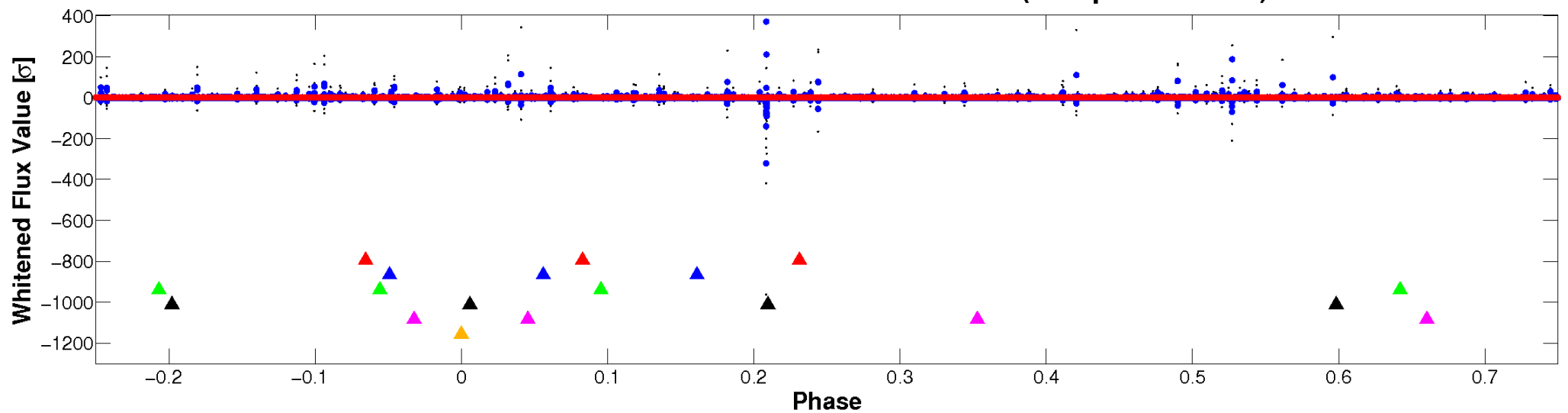


Non-Whitened Vs. Whitened Light Curve

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

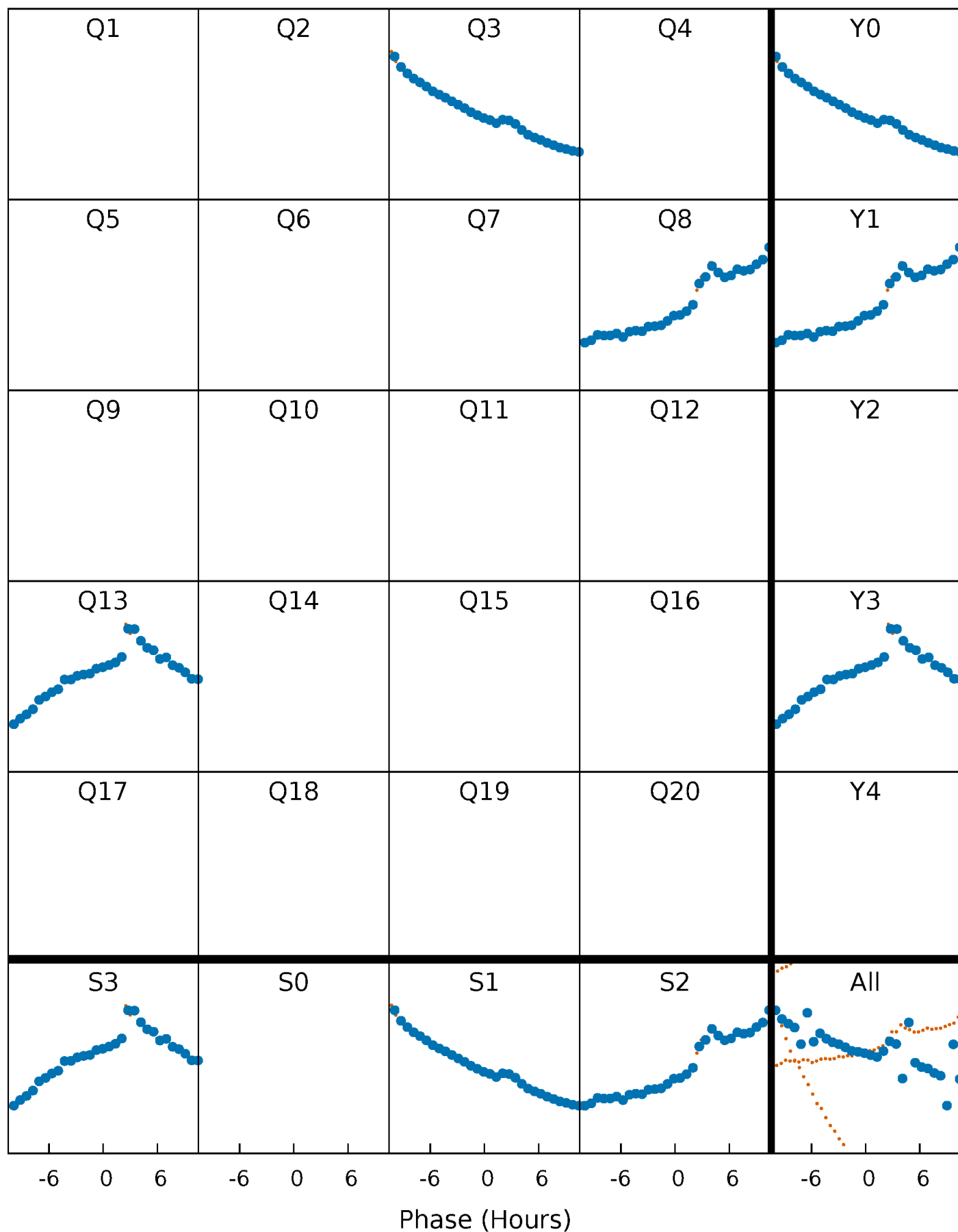


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



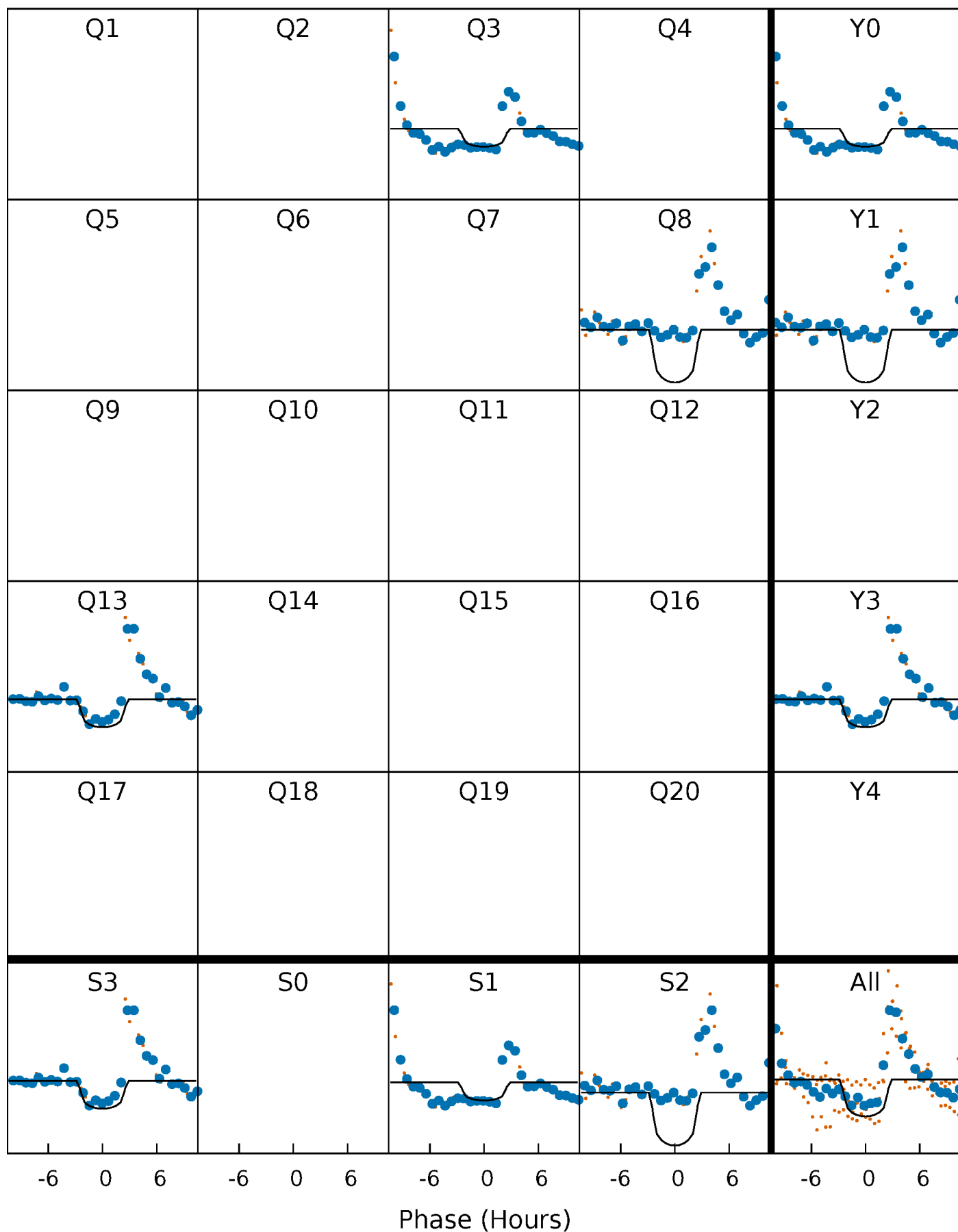
PDC Quarter-Phased Transit Curves

TCE 011190713-06 P=486.849363 Days $T_0=266.926009$ (BKJD)



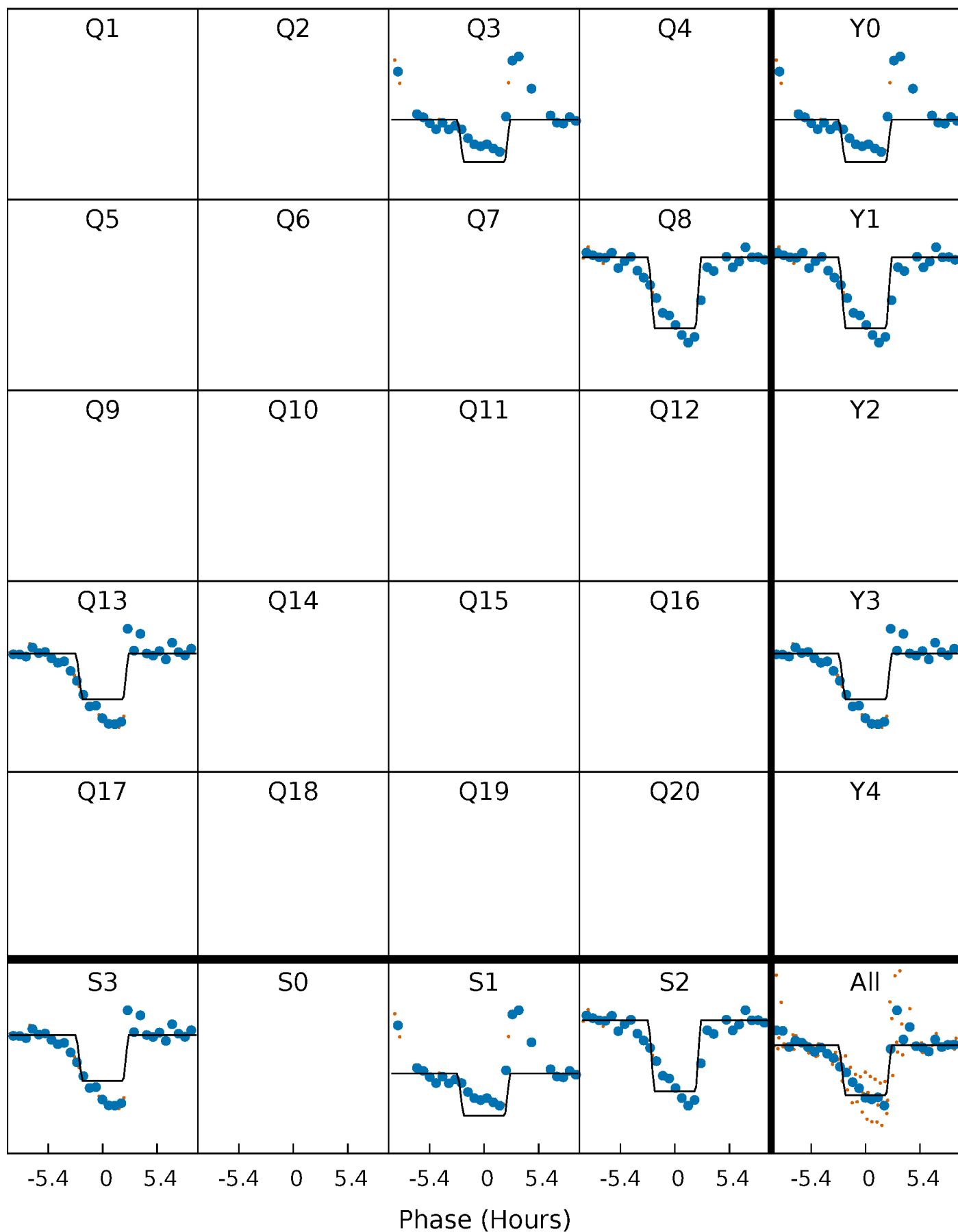
DV Quarter-Phased Transit Curves

TCE 011190713-06 P=486.849363 Days $T_0=266.926009$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

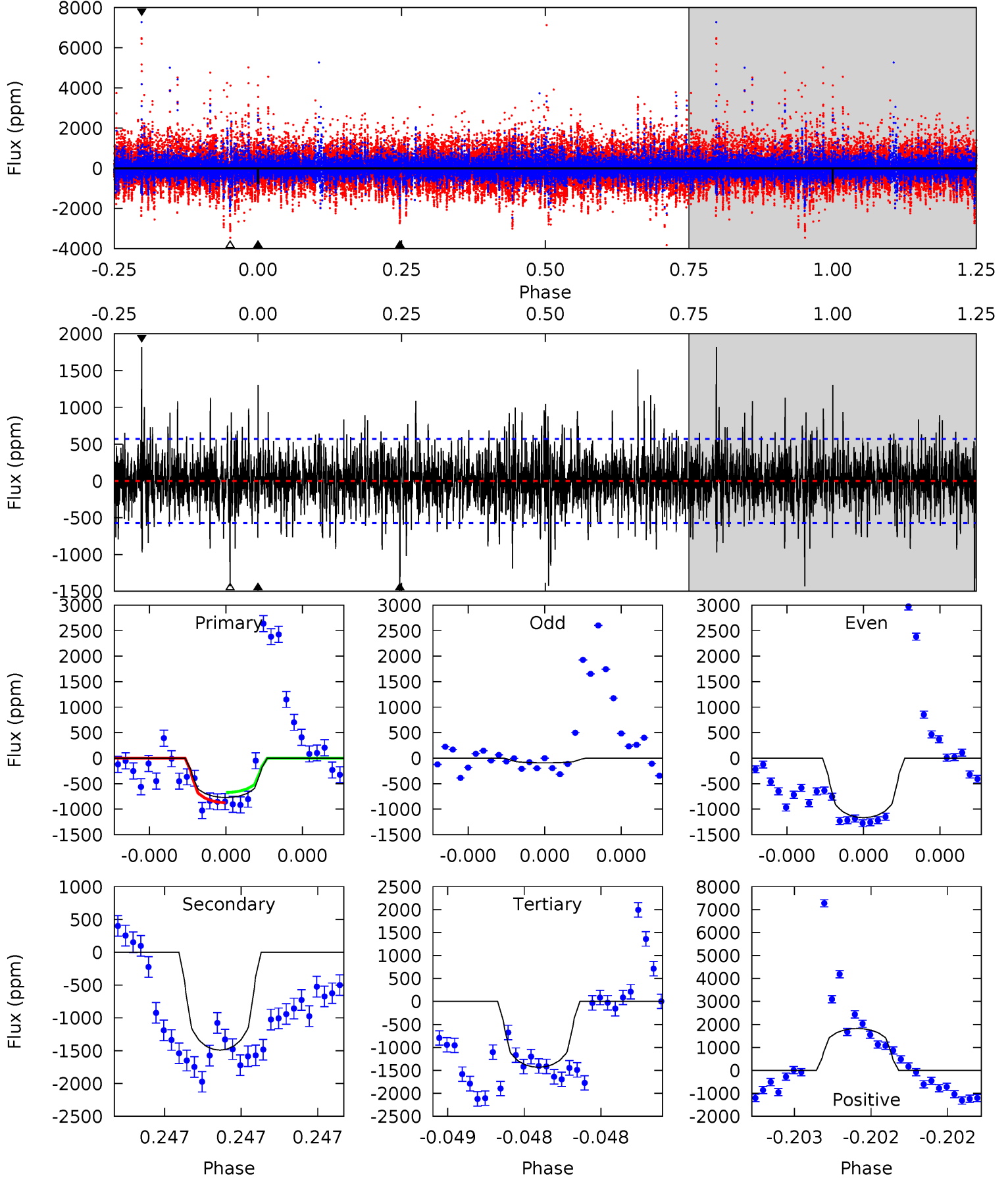
TCE 011190713-06 P=486.856812 Days $T_0=266.907172$ (BKJD)



DV Model-Shift Uniqueness Test

011190713-06, P = 486.849363 Days, E = 266.926009 Days

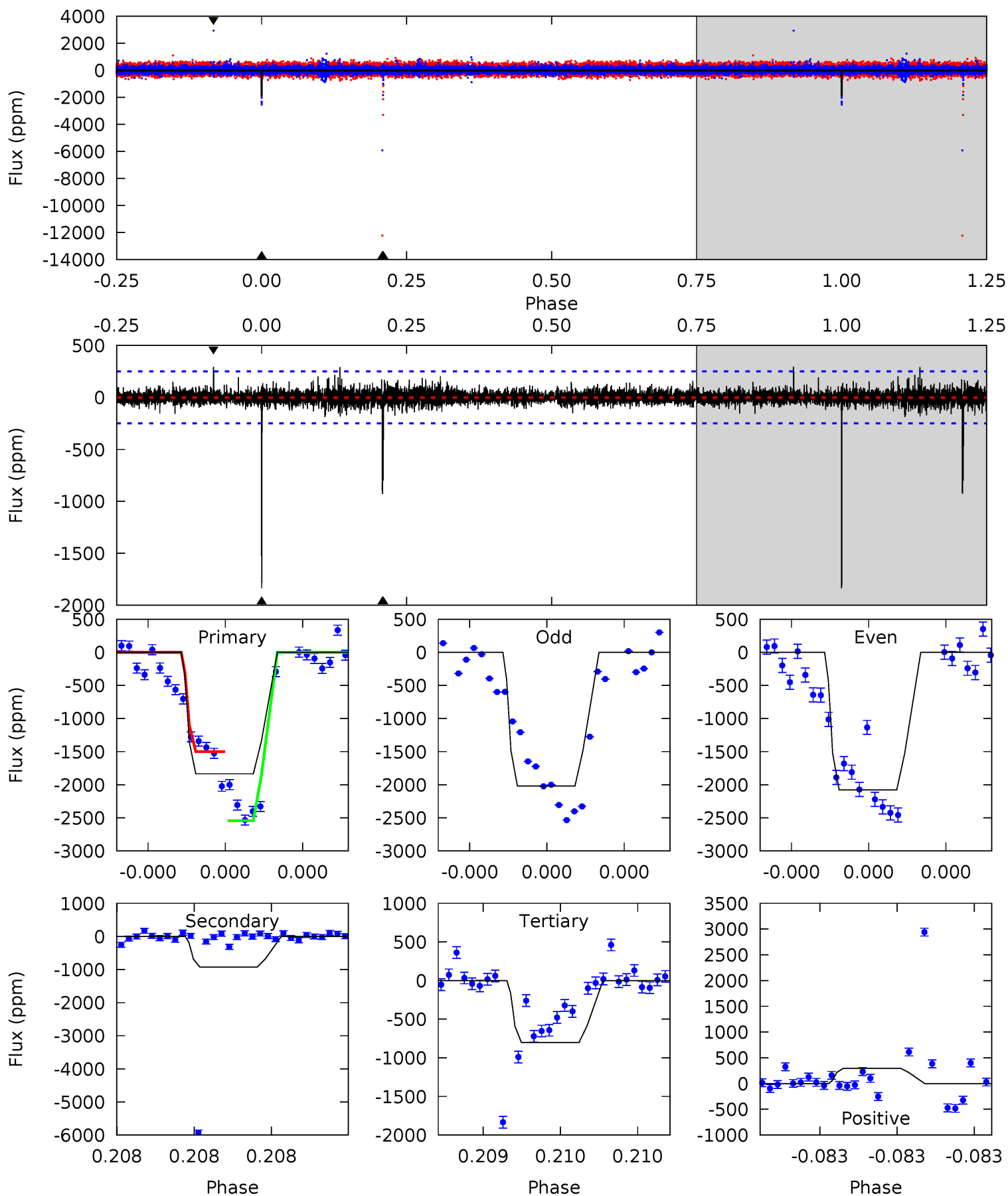
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.56	14.6	14.0	17.9	5.59	3.50	2.63	-6.48	-10.3	0.58	-3.24	1.00	0.86	0.55	0.99



Alt Model-Shift Uniqueness Test

011190713-06, P = 486.856812 Days, E = 266.907172 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
41.2	20.7	18.0	6.59	5.61	3.54	0.89	23.2	34.6	2.73	14.1	0.76	0.99	0.14	12.2



Stellar Parameters For KIC 011190713

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4637^{+138}_{-152}	$4.726^{+0.052}_{-0.024}$	$-1.320^{+0.300}_{-0.300}$	$0.522^{+0.028}_{-0.035}$	$0.528^{+0.035}_{-0.026}$	$5.231^{+1.032}_{-0.592}$
	+3%/-3%	+1%/-1%	+23%/-23%	+5%/-7%	+7%/-5%	+20%/-11%
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 011190713-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1491 ± 102	$8.78^{+7.89}_{-6.04}$	208^{+7}_{-8}	2928^{+1301}_{-451}	10661^{+94343}_{-7826}
Alt.	-924 ± 45	$9.52^{+8.96}_{-6.73}$	207^{+7}_{-7}	2699^{+1116}_{-407}	5510^{+57494}_{-4076}

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

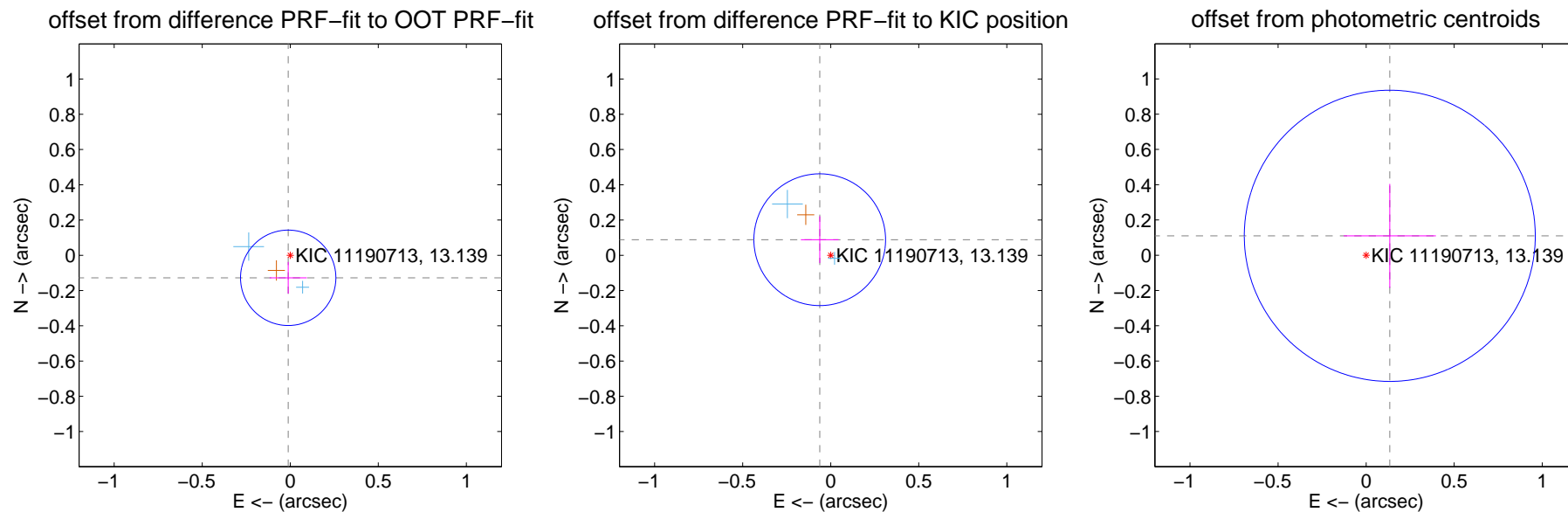
DV Centroid Data

Supplemental centroid analysis for 011190713-06. Kepler magnitude: 13.14. Transit SNR 8.20

There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.32 arcsec

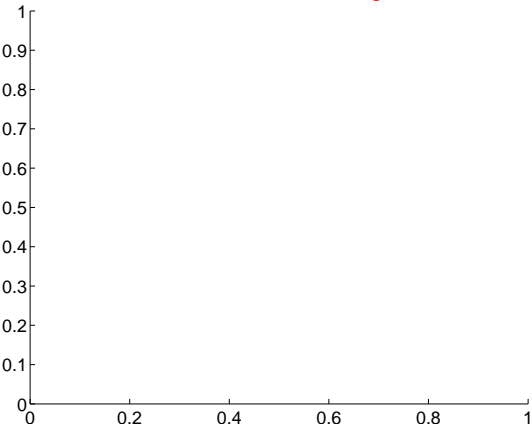
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.128 ± 0.090	1.42	0.012 ± 0.106	-0.128 ± 0.090
PRF-fit source offset from KIC position	0.108 ± 0.125	0.87	0.062 ± 0.107	0.088 ± 0.133
photometric centroid source offset	0.17 ± 0.28	0.63	-0.13 ± 0.26	0.11 ± 0.29



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.

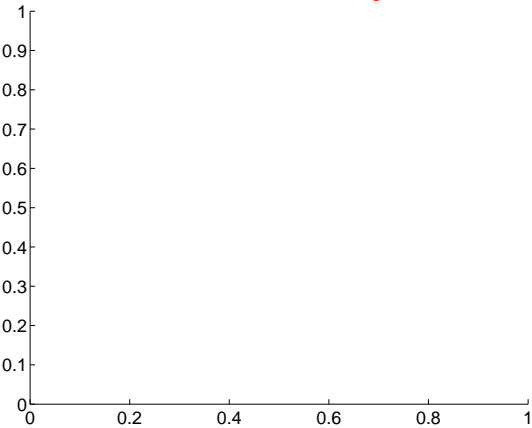
Q1 no difference image



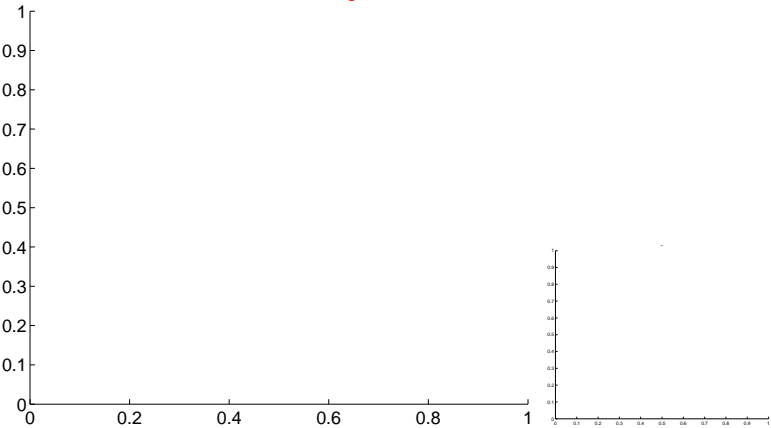
Q1 no OOT image



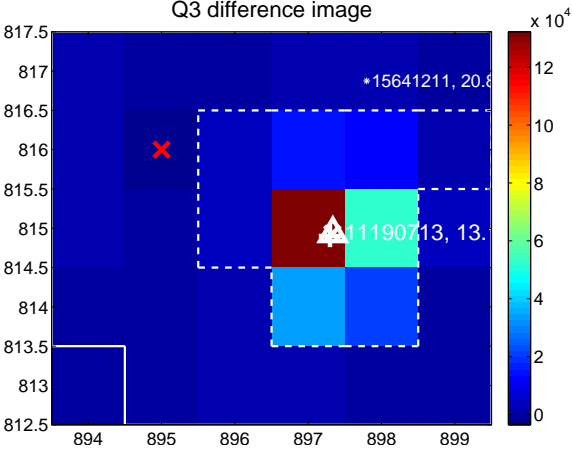
Q2 no difference image



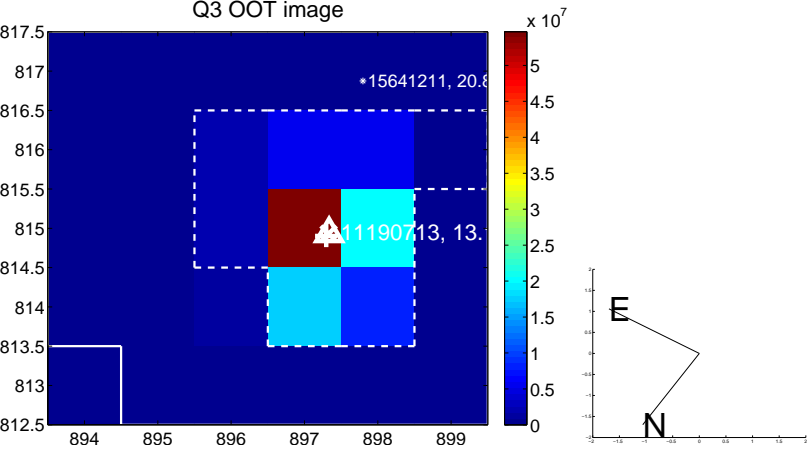
Q2 no OOT image



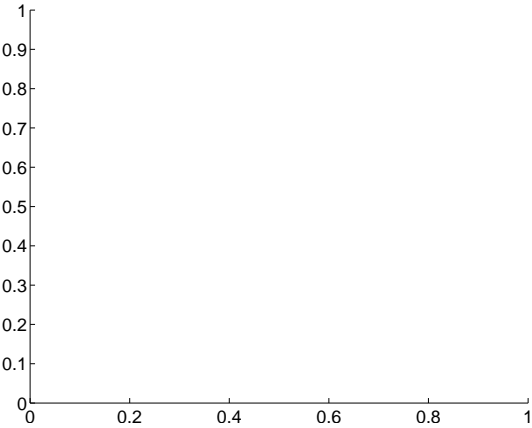
Q3 difference image



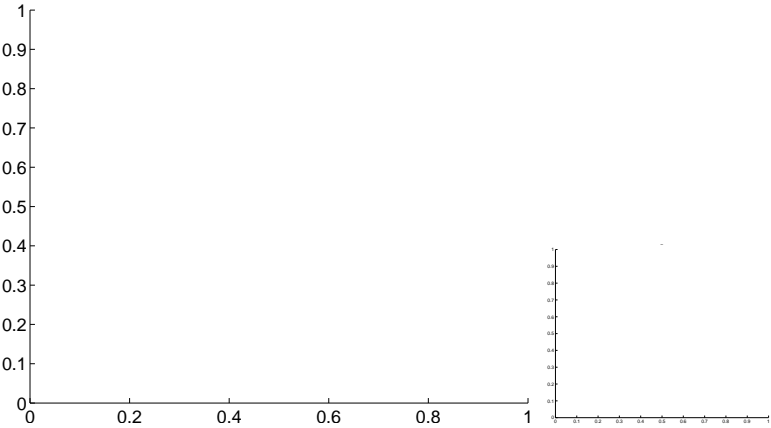
Q3 OOT image



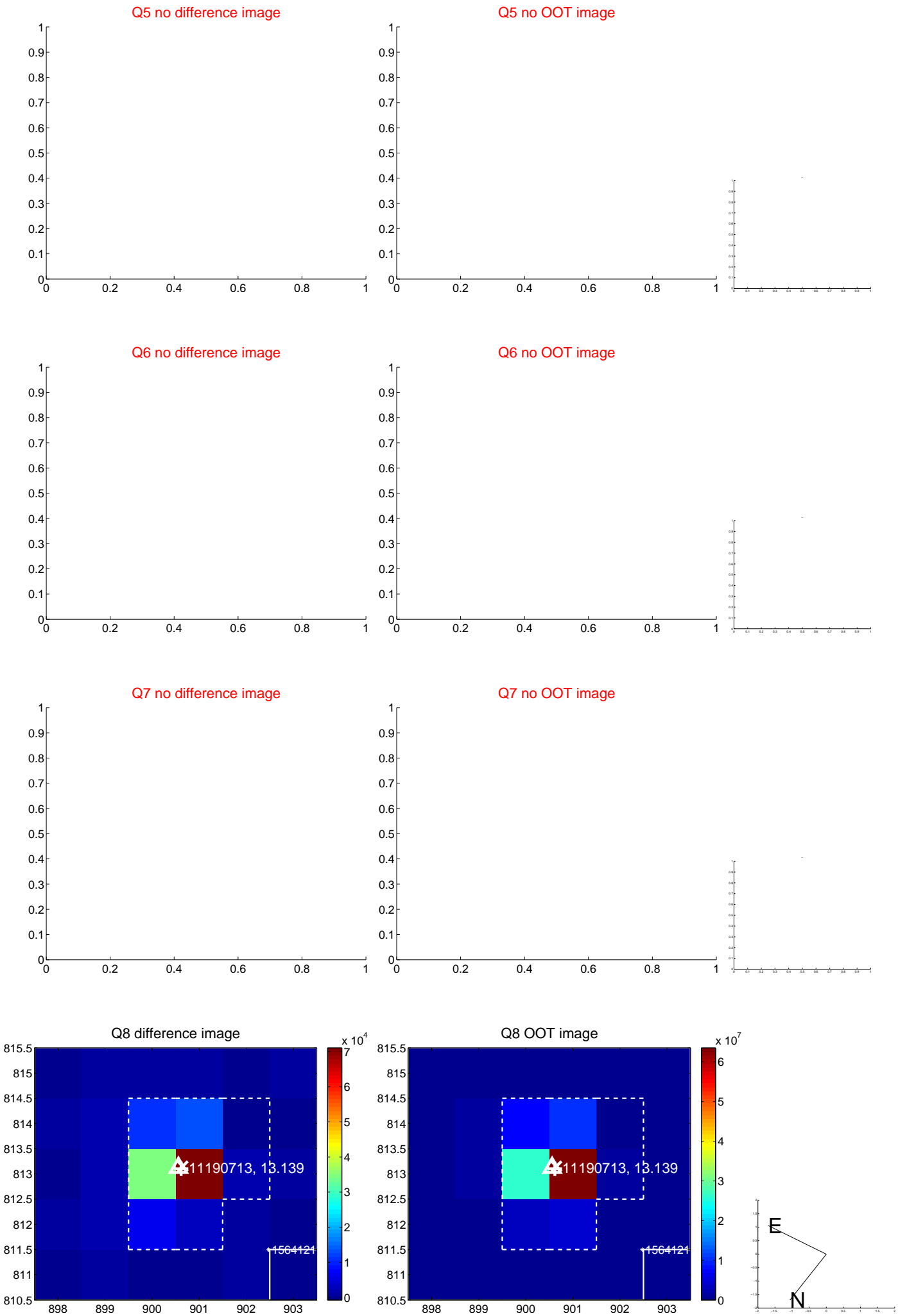
Q4 no difference image



Q4 no OOT image



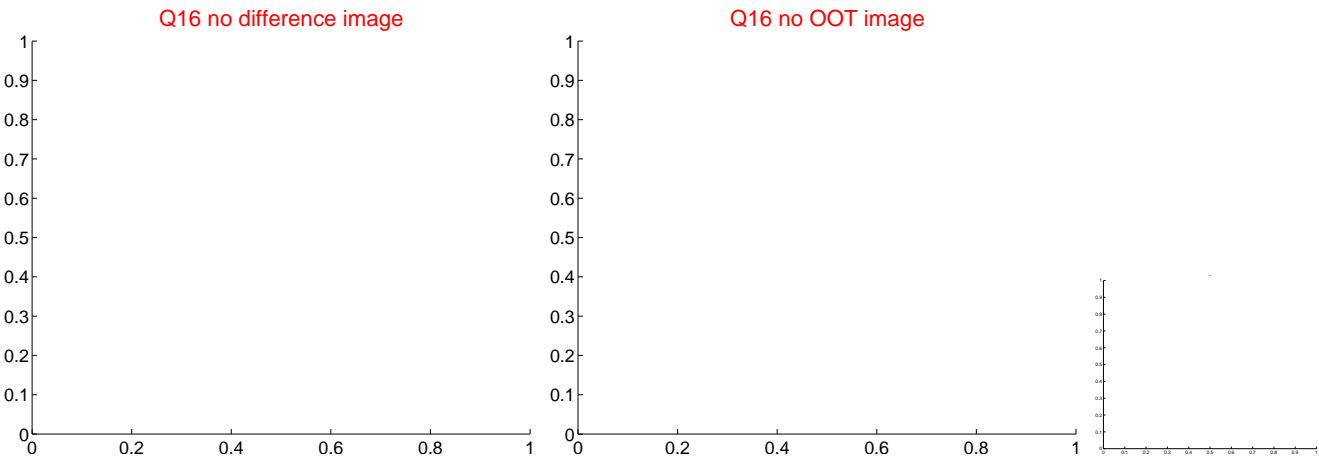
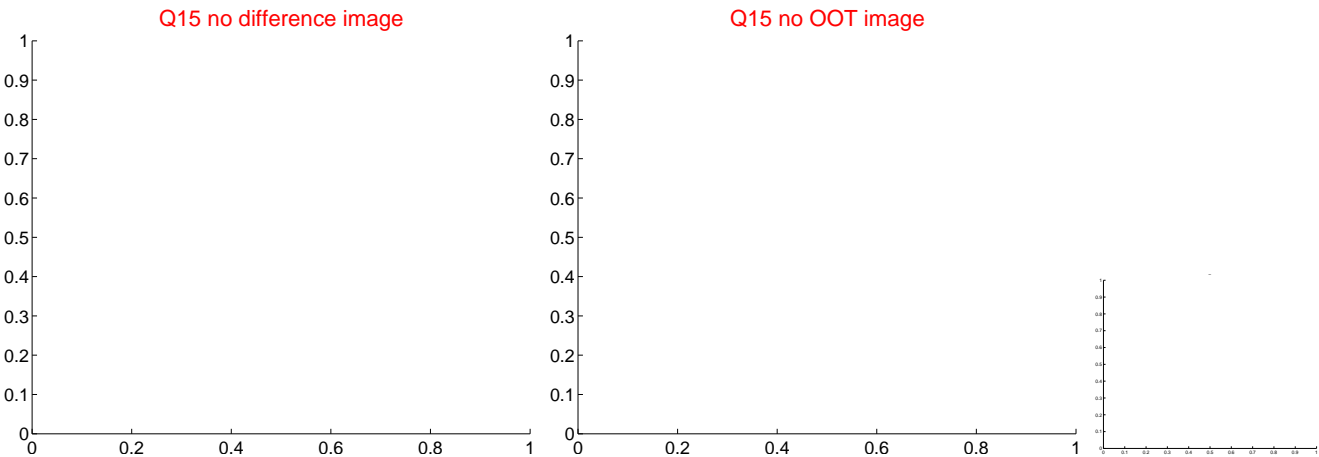
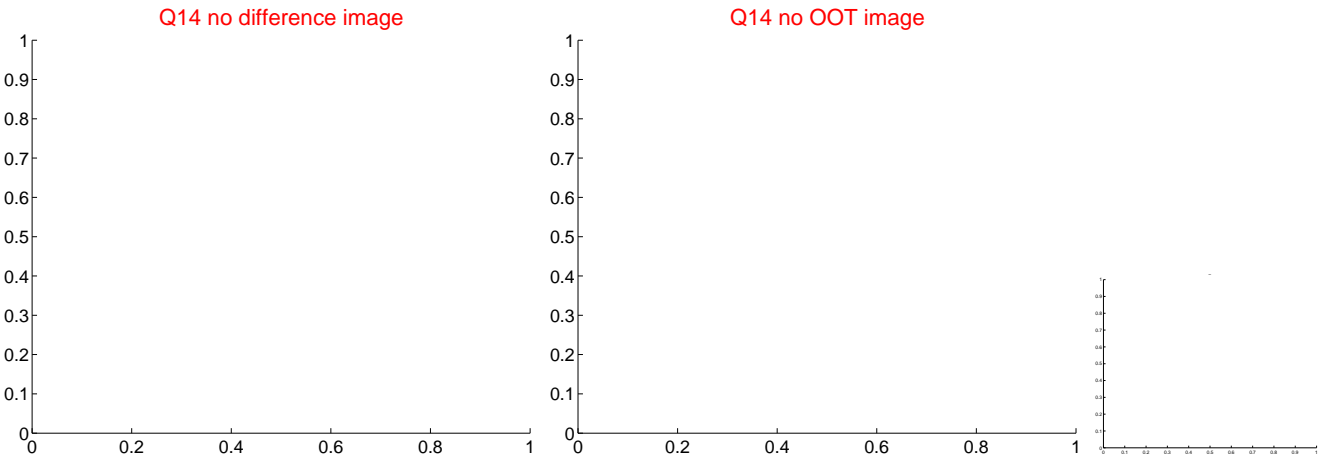
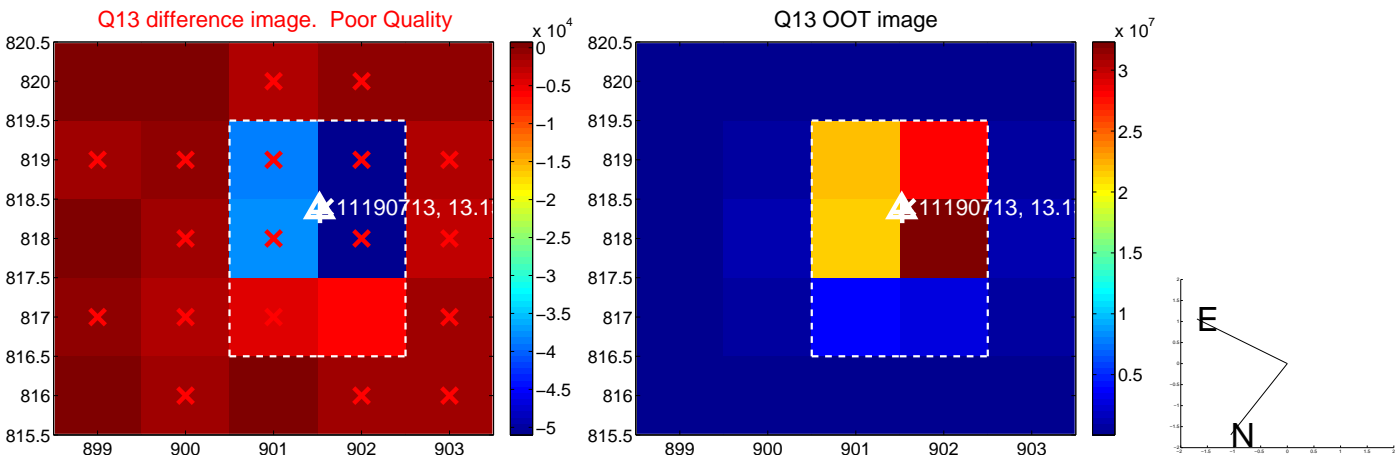
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



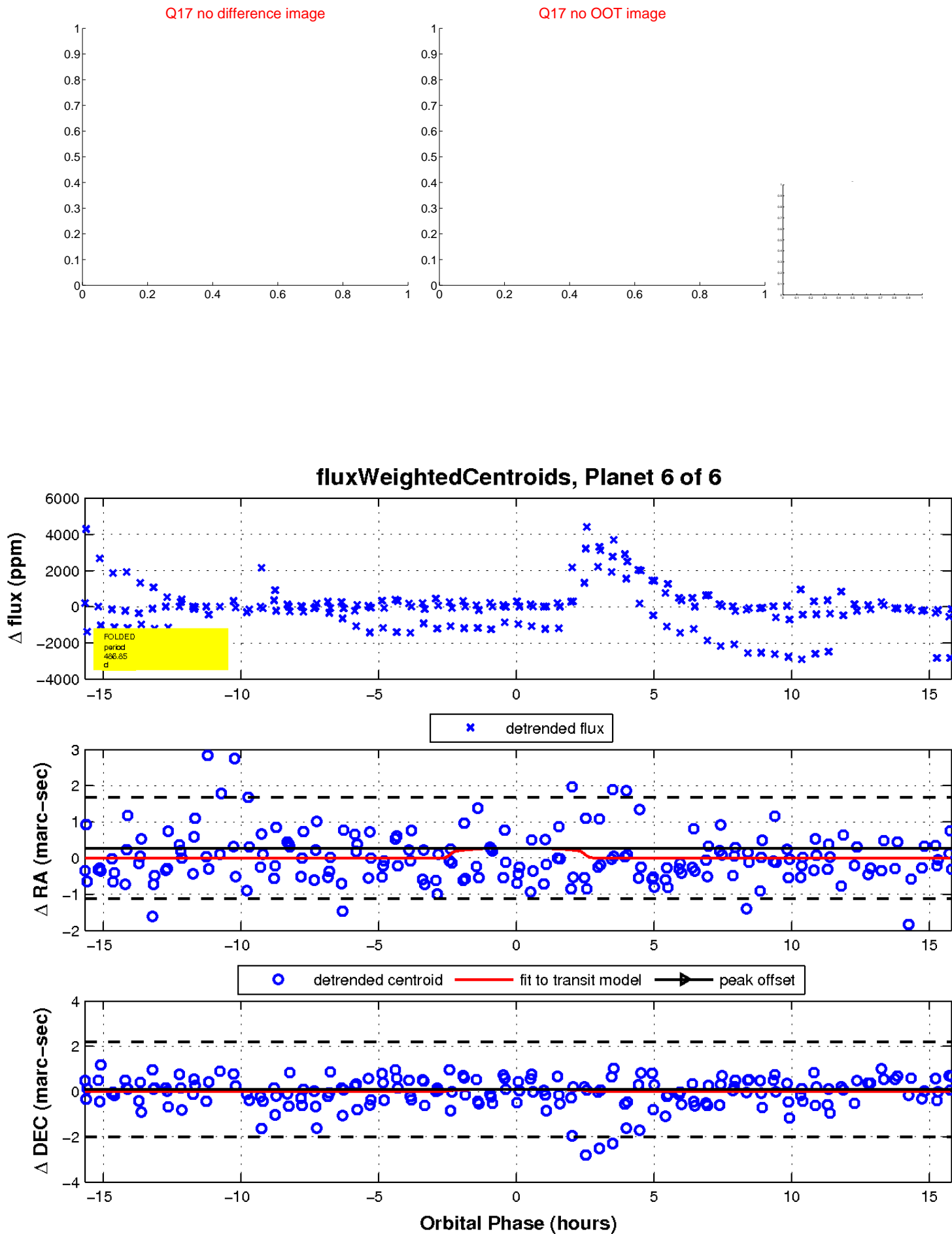
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

