

KIC 01125613

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})
011125613-01	OBS	2485.02	3.600833	134.037223	292.1	2.088	14.5	16.5	0.80	4838	1.69	174.70
011125613-02	OBS	2485.01	9.991069	134.398226	378.6	2.730	13.3	14.0	0.80	4838	1.81	44.81
011125613-03	OBS	2485.03	5.727228	133.957517	308.7	2.366	12.8	13.9	0.80	4838	1.72	94.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011125613-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011125613-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011125613-03	OBS	PC	0.99	0	0	0	0	NO_COMMENT

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

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

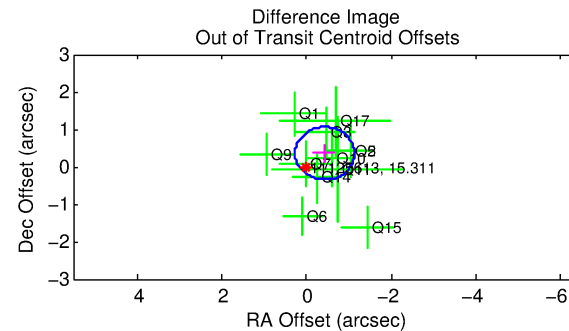
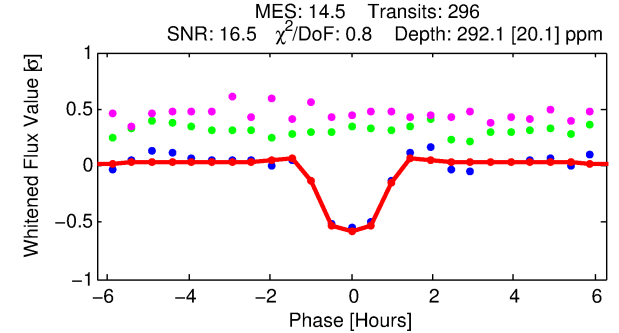
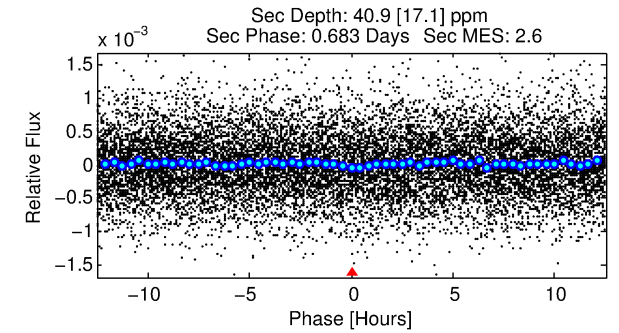
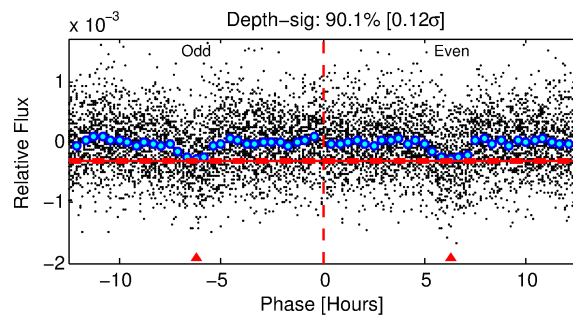
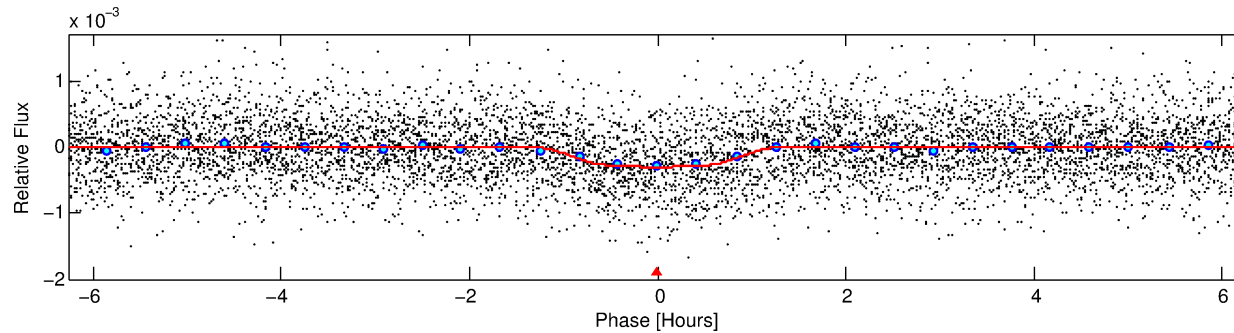
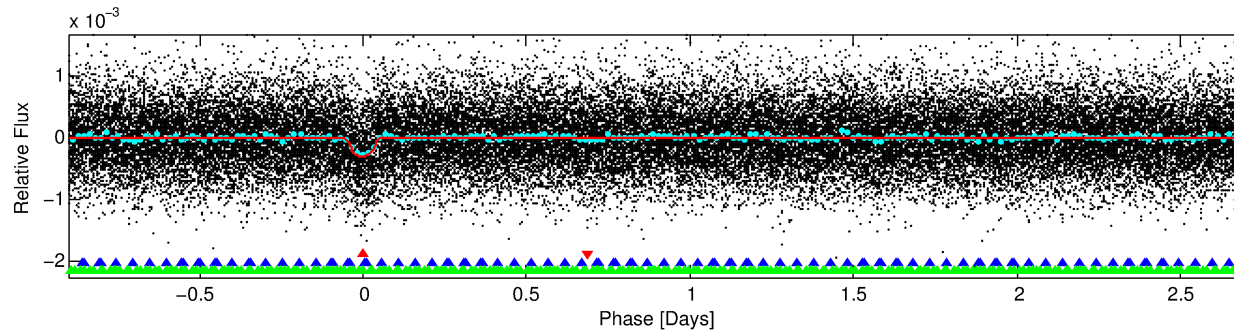
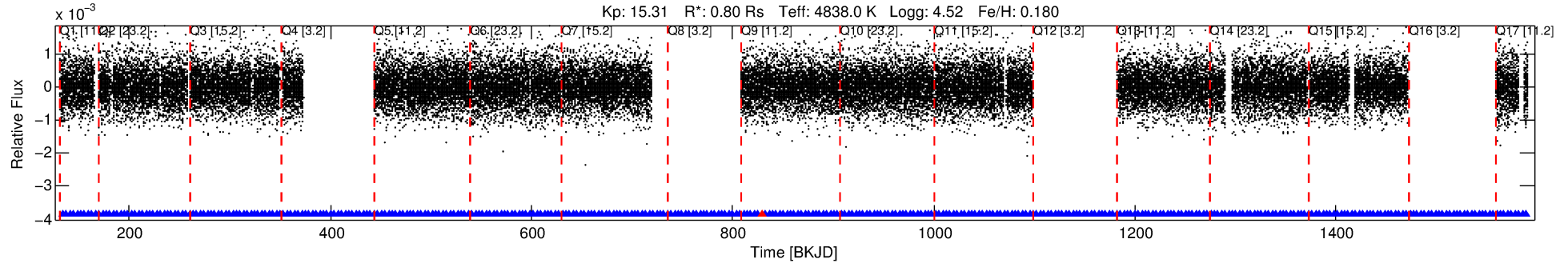
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011125613-01

No Significant Match Found

DV One-Page Summary

KIC: 11125613 Candidate: 1 of 3 Period: 3.601 d
KOI: K02485.02 Corr: 0.974



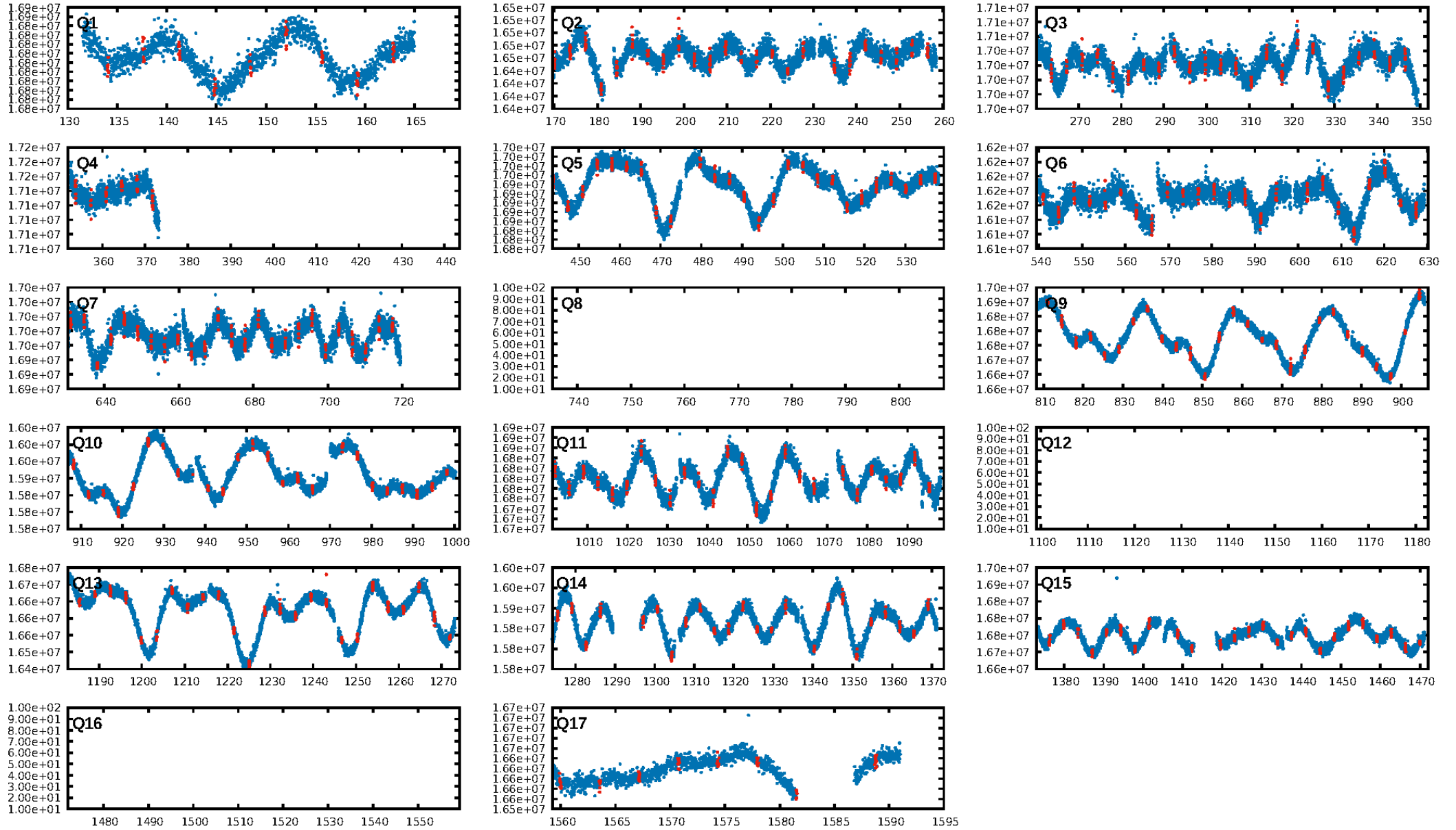
DV Fit Results:

Period = 3.60083 [0.00001] d
Epoch = 134.0372 [0.0021] BKJD
Rp/R* = 0.0194 [0.0082]
a/R* = 6.19 [9.83]
b = 0.91 [0.33]
Seff = 174.70 [21.72]
Teq = 927 [29] K
Rp = 1.69 [0.73] Re
a = 0.0422 [0.0028] AU
Ag = 14.05 [13.39] [0.97 σ]
Teffp = 2775 [658] K [2.80 σ]

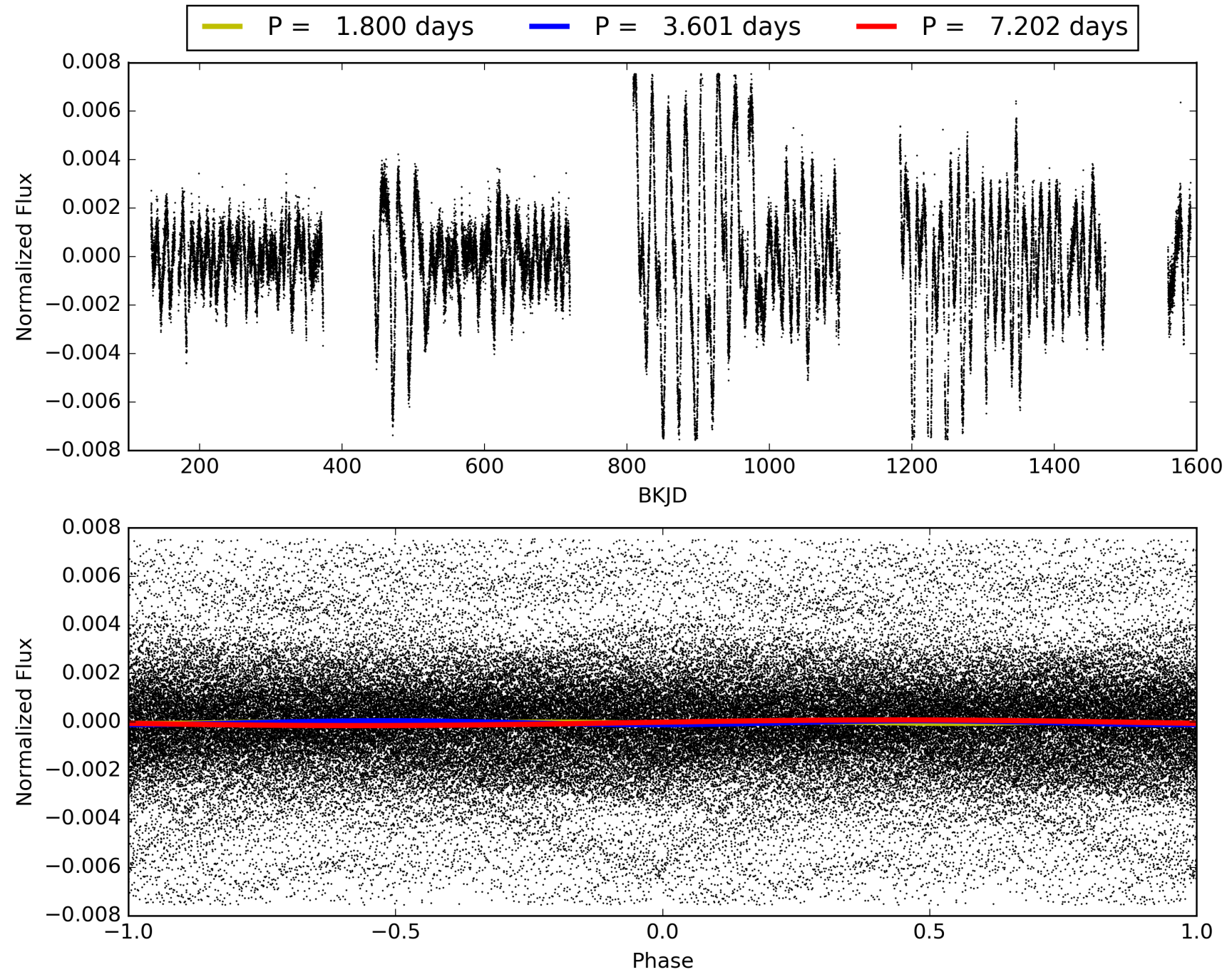
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [16.17 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.37e-47
RollingBand-fgt: 1.00 [272/273]
GhostDiagnostic-chr: 13.05
Centroid-sig: 17.0%
Centroid-so: 1.102 arcsec [1.31 σ]
OotOffset-rm: 0.558 arcsec [2.38 σ]
KicOffset-rm: 0.521 arcsec [2.19 σ]
OotOffset-st: 4/4/0/4 [12]
KicOffset-st: 4/4/0/4 [12]
DiffImageQuality-fgm: 1.00 [12/12]
DiffImageOverlap-fno: 1.00 [14/14]

TCE 011125613-01, PDC Light Curves

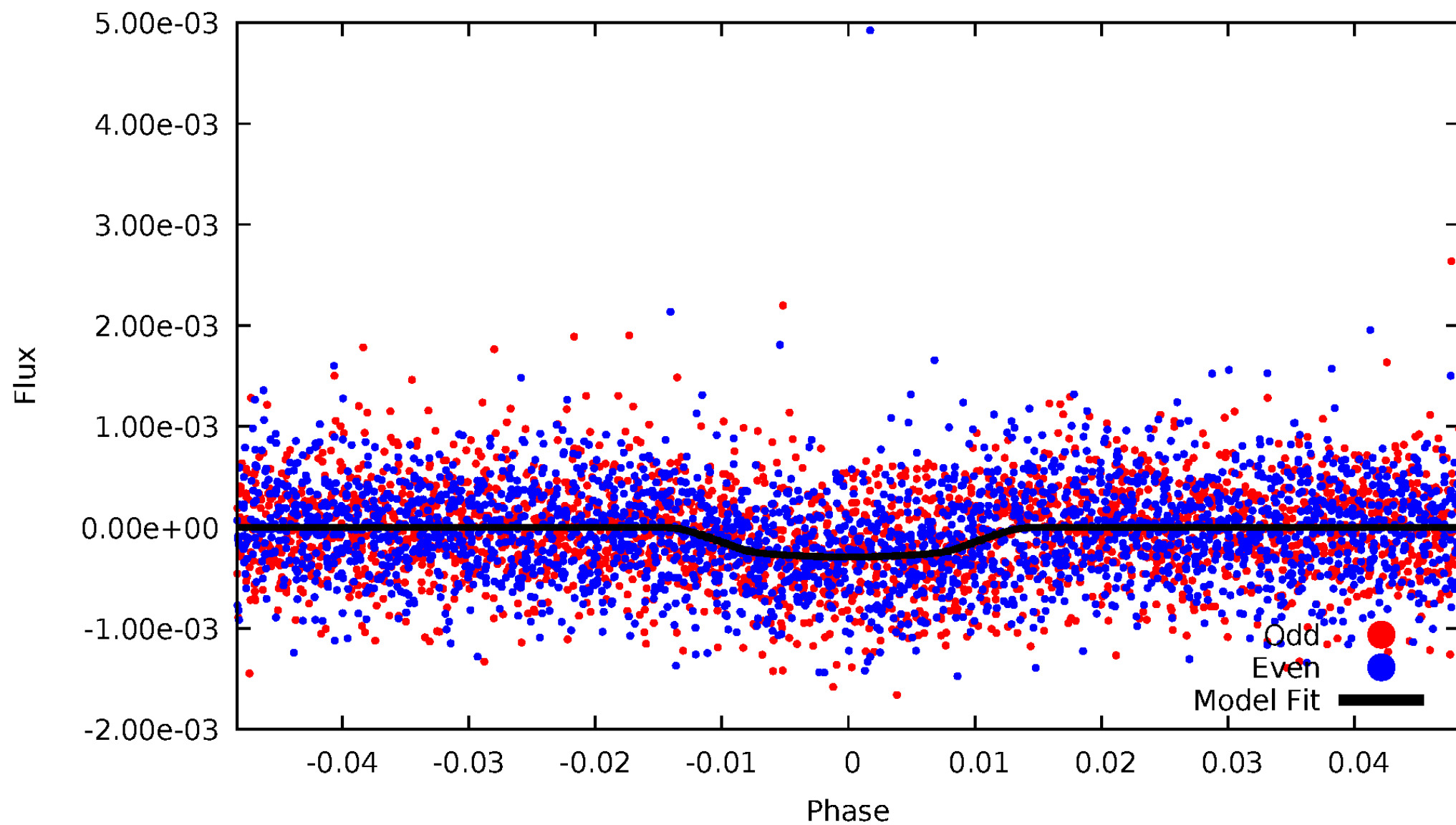


TCE 011125613-01



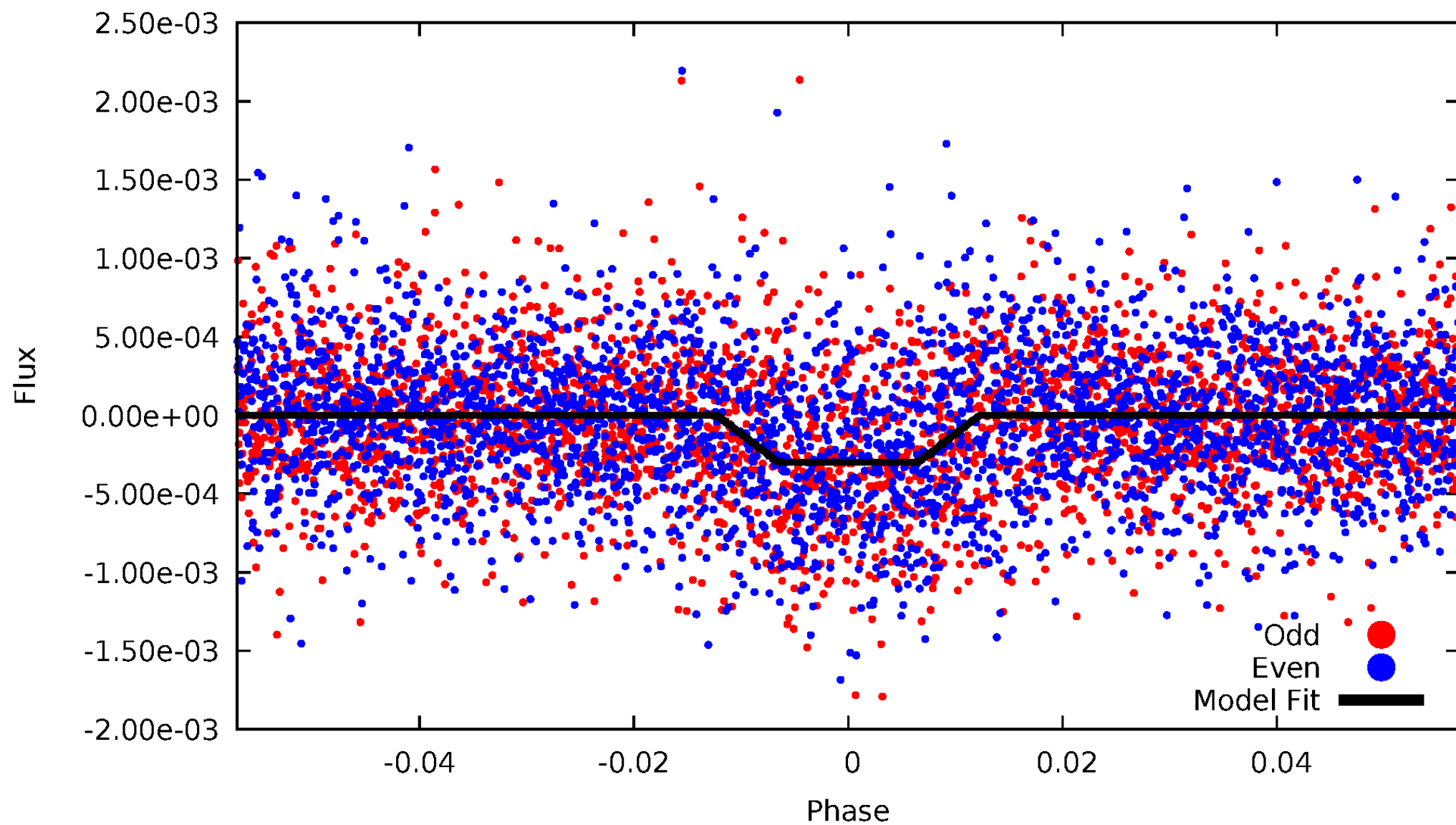
DV Odd/Even

TCE 011125613-01

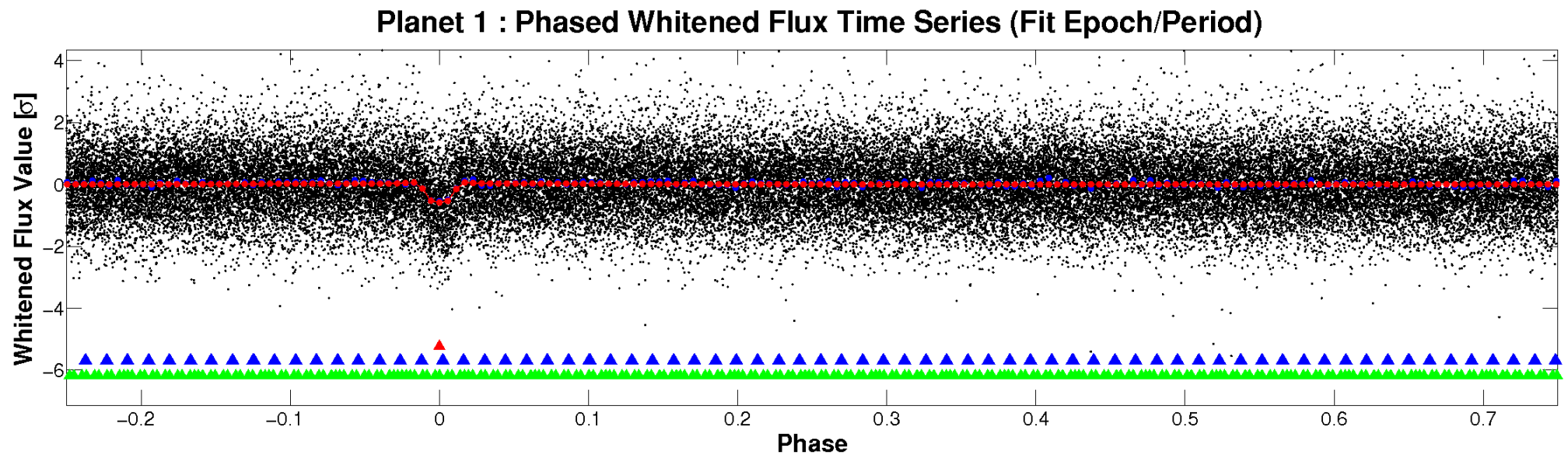
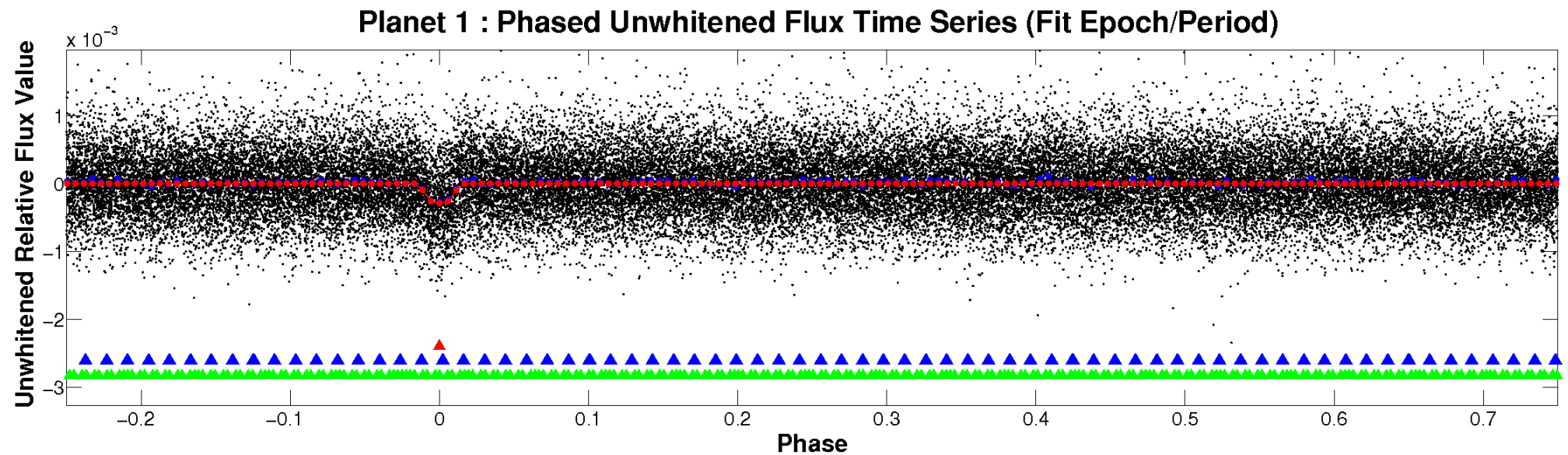


ALT Odd/Even

TCE 011125613-01

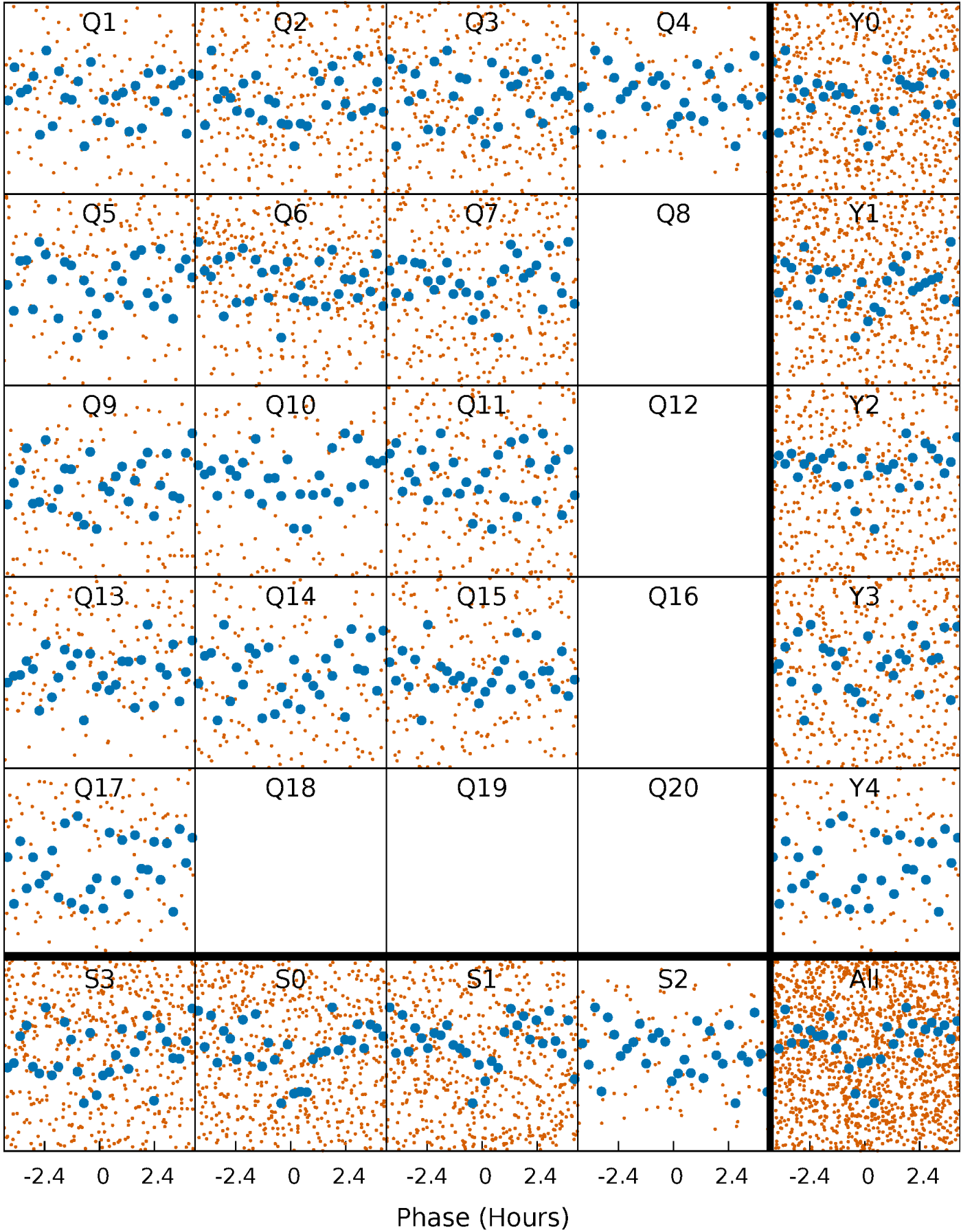


Non-Whitened Vs. Whitened Light Curve



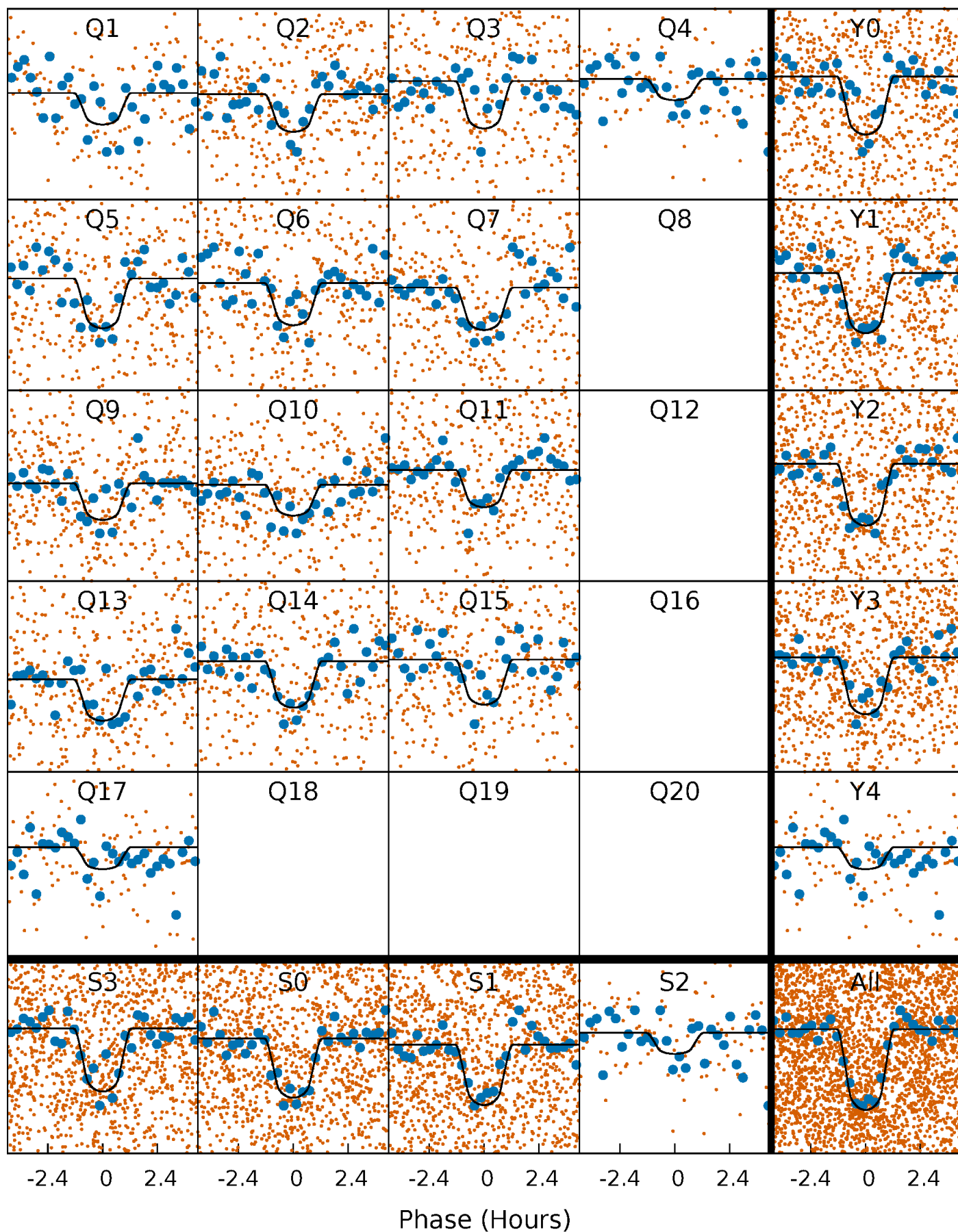
PDC Quarter-Phased Transit Curves

TCE 011125613-01 P= 3.600833 Days $T_0=134.037223$ (BKJD)



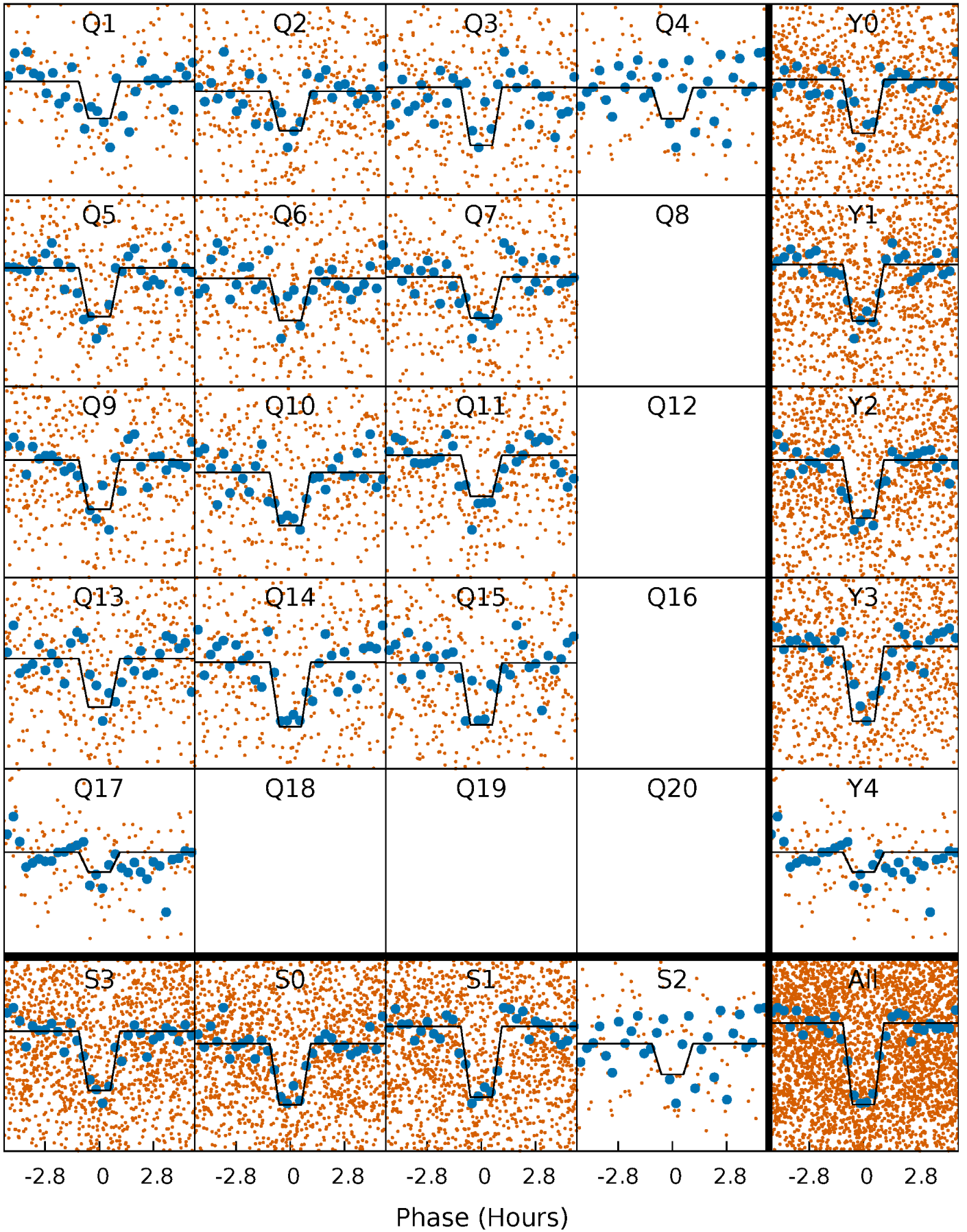
DV Quarter-Phased Transit Curves

TCE 011125613-01 P= 3.600833 Days $T_0=134.037223$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

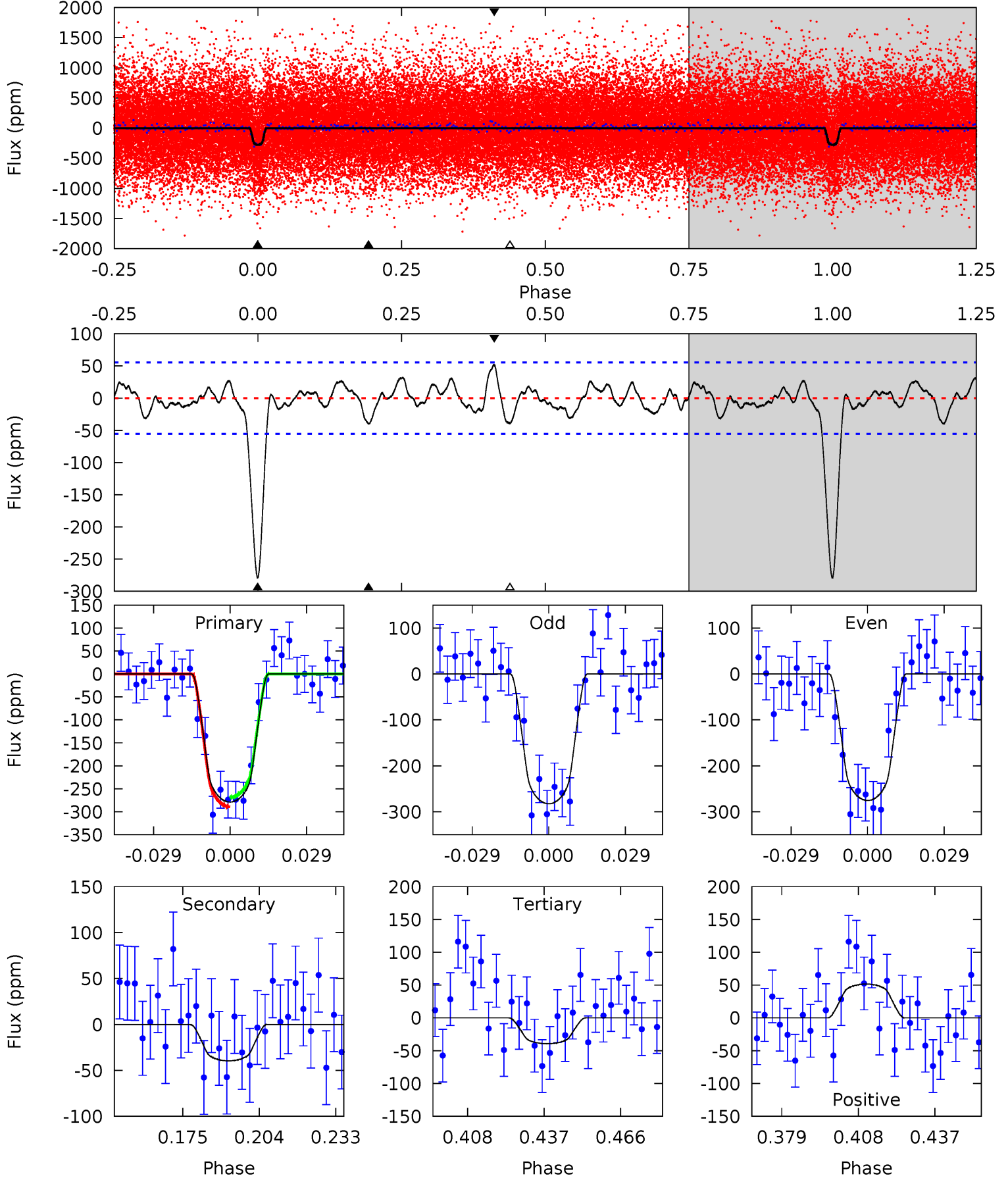
TCE 011125613-01 P= 3.600793 Days $T_0=134.043170$ (BKJD)



DV Model-Shift Uniqueness Test

011125613-01, P = 3.600833 Days, E = 130.436390 Days

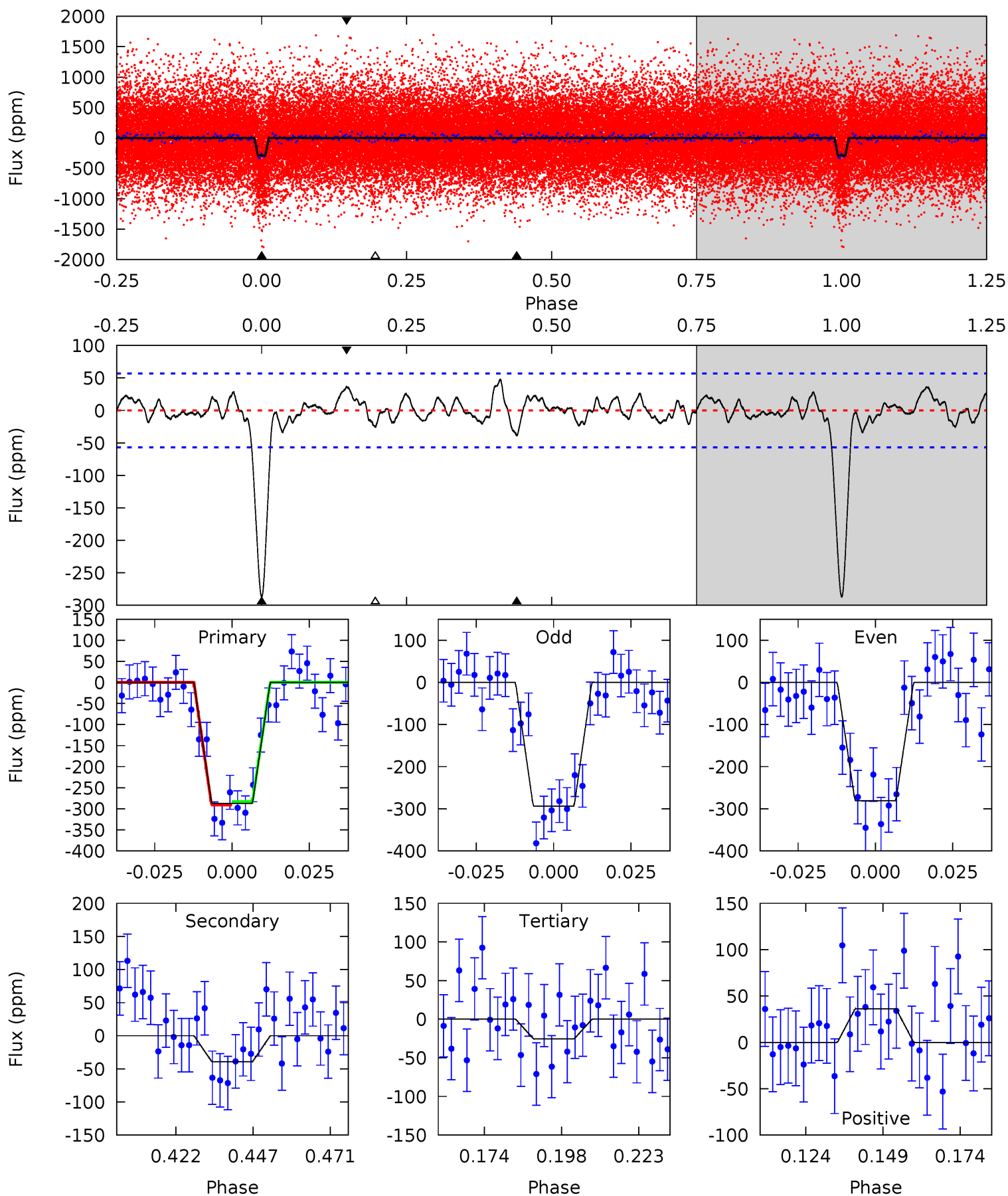
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.2	3.44	3.41	4.48	4.82	2.18	1.39	20.8	19.7	0.03	-1.03	0.31	1.00	0.16	0.91



Alt Model-Shift Uniqueness Test

011125613-01, P = 3.600793 Days, E = 130.442377 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.5	3.33	2.16	3.09	4.85	2.24	1.19	22.3	21.4	1.17	0.24	0.56	0.94	0.14	0.36



Stellar Parameters For KIC 011125613

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4838^{+77}_{-77}	$4.524^{+0.063}_{-0.018}$	$0.180^{+0.150}_{-0.150}$	$0.796^{+0.027}_{-0.054}$	$0.771^{+0.047}_{-0.027}$	$2.156^{+0.498}_{-0.172}$
	+2%/-2%	+1%/-0%	+83%/-83%	+3%/-7%	+6%/-4%	+23%/-8%
Source	SPE90	SPE90	SPE90	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 011125613-01 / KOI 2485.02

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-40 ± 12	$1.69^{+0.73}_{-0.68}$	1288^{+27}_{-31}	3209^{+612}_{-340}	13^{+27}_{-7}
Alt.	-39 ± 12	$1.48^{+0.72}_{-0.66}$	1286^{+27}_{-28}	3357^{+762}_{-414}	17^{+41}_{-10}

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

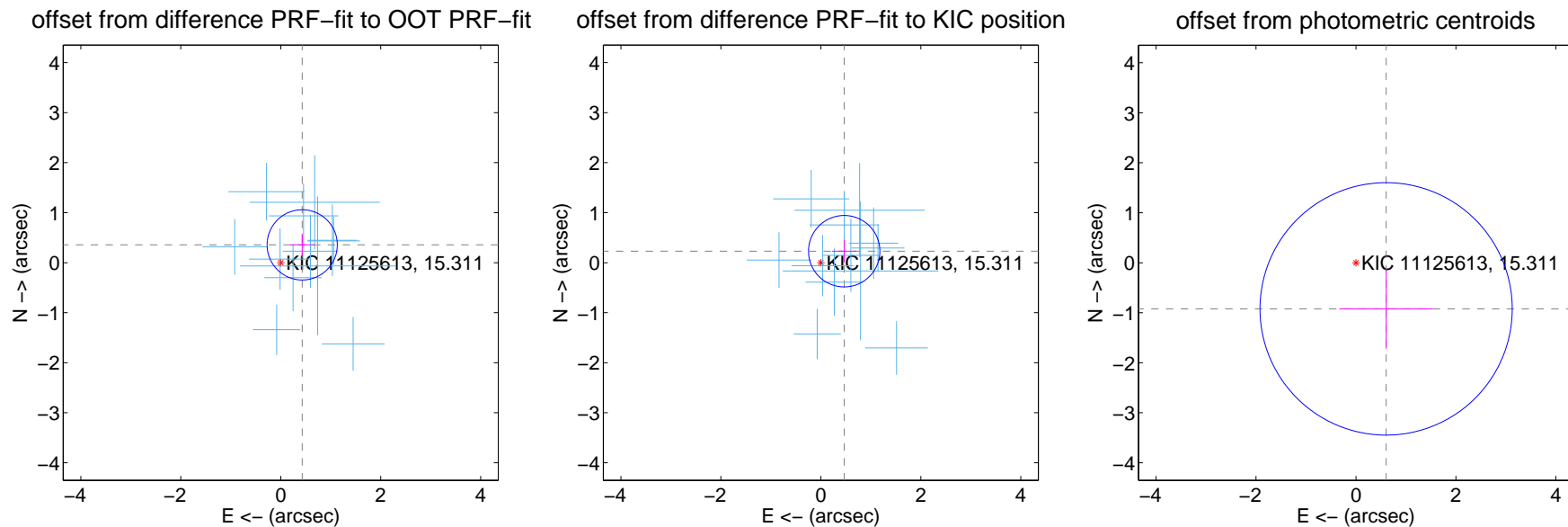
DV Centroid Data

Supplemental centroid analysis for 011125613-01. Kepler magnitude: 15.31. Transit SNR 16.55

There are 12 quarters with good PRF difference image offsets

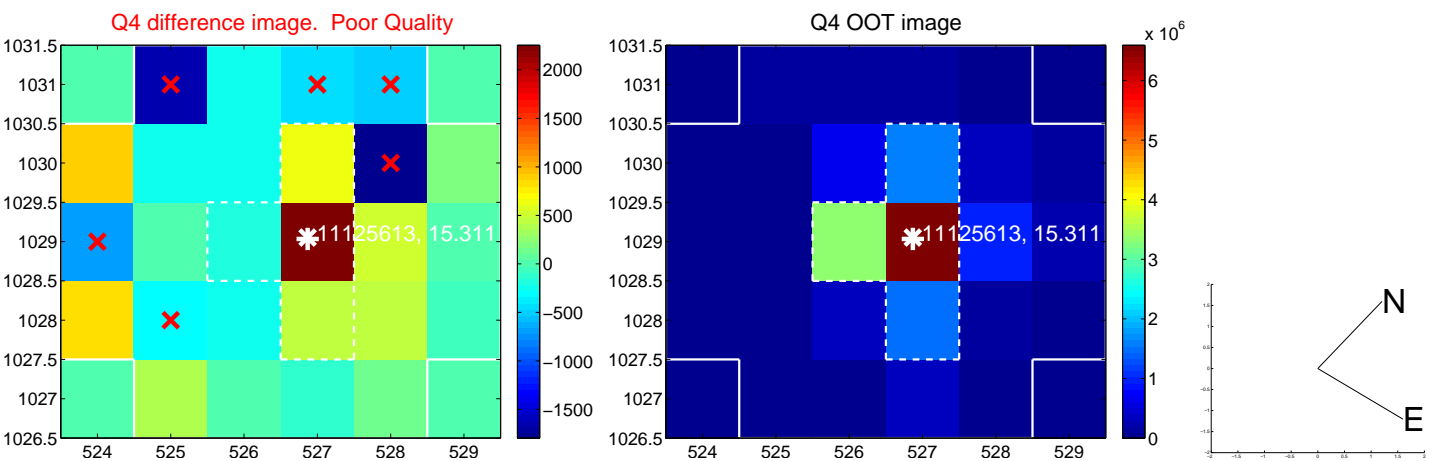
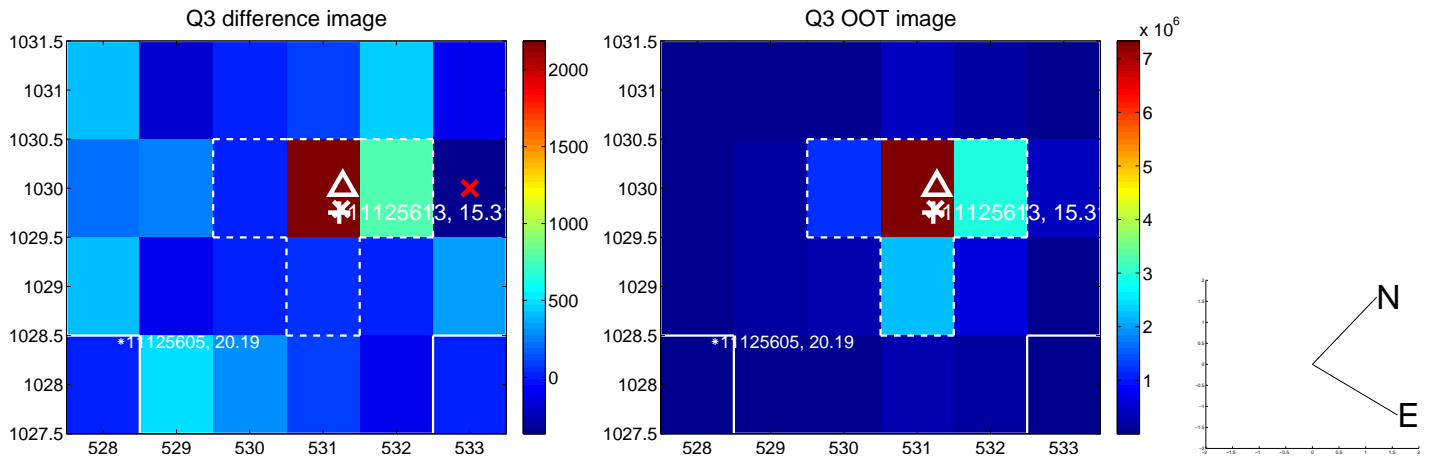
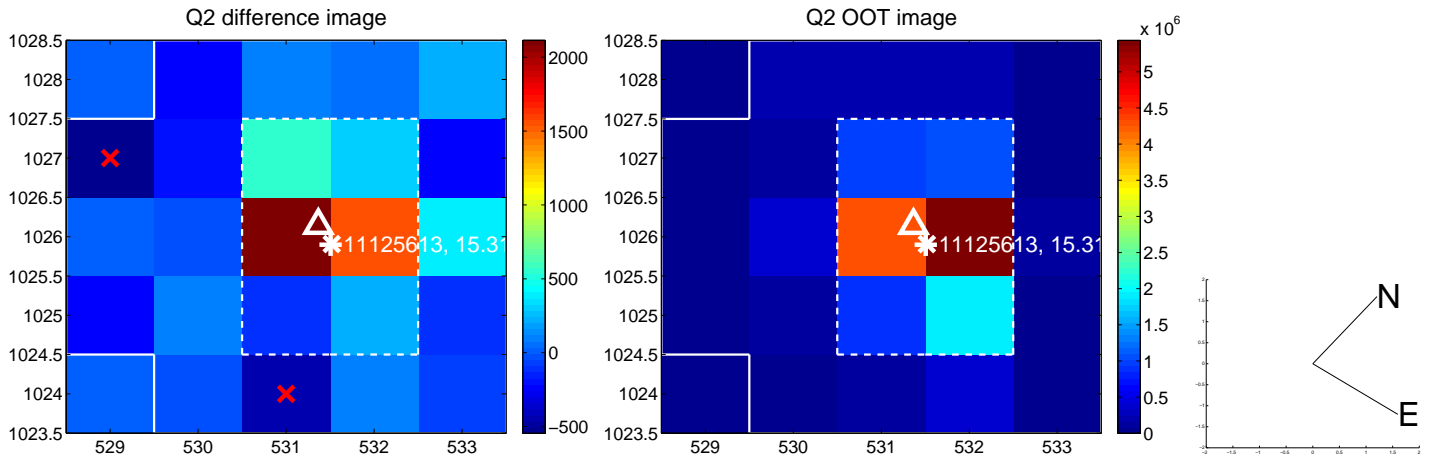
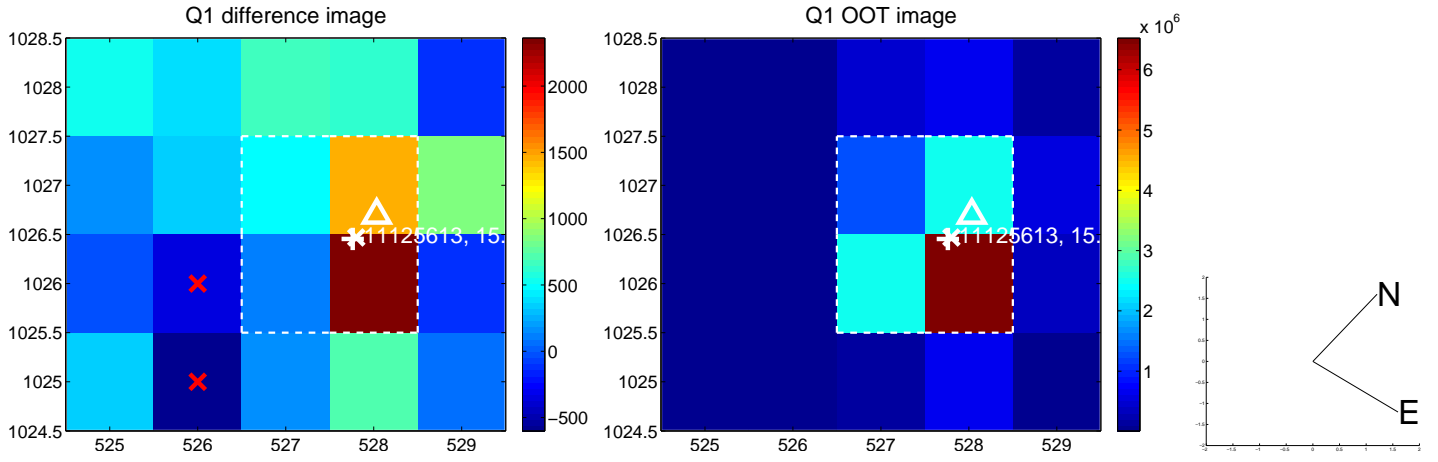
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.558 ± 0.234	2.38	-0.429 ± 0.242	0.356 ± 0.223
PRF-fit source offset from KIC position	0.521 ± 0.238	2.19	-0.467 ± 0.242	0.230 ± 0.223
photometric centroid source offset	1.10 ± 0.84	1.31	-0.60 ± 0.93	-0.92 ± 0.80

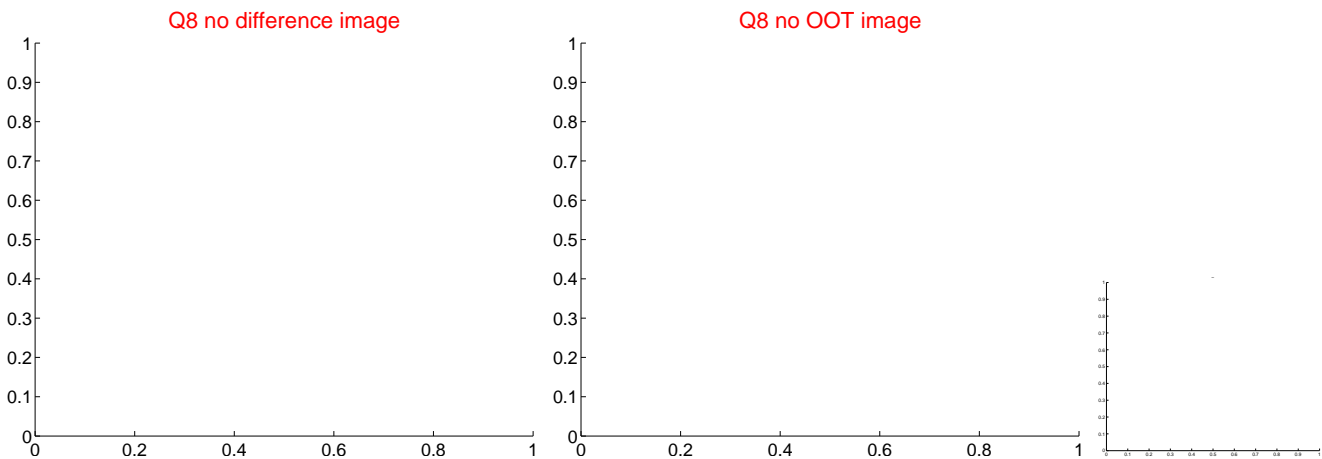
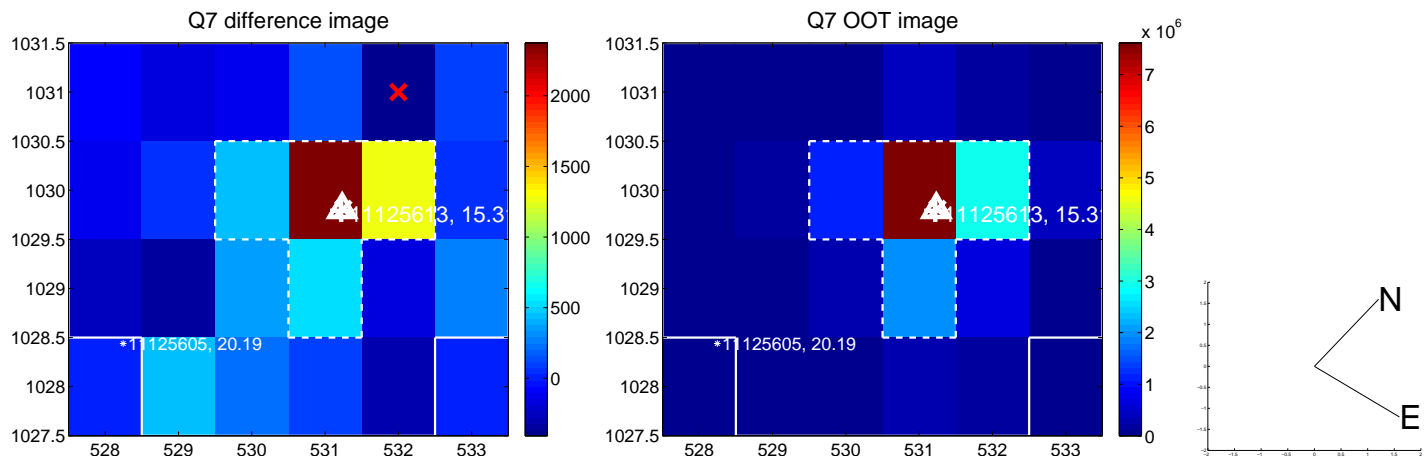
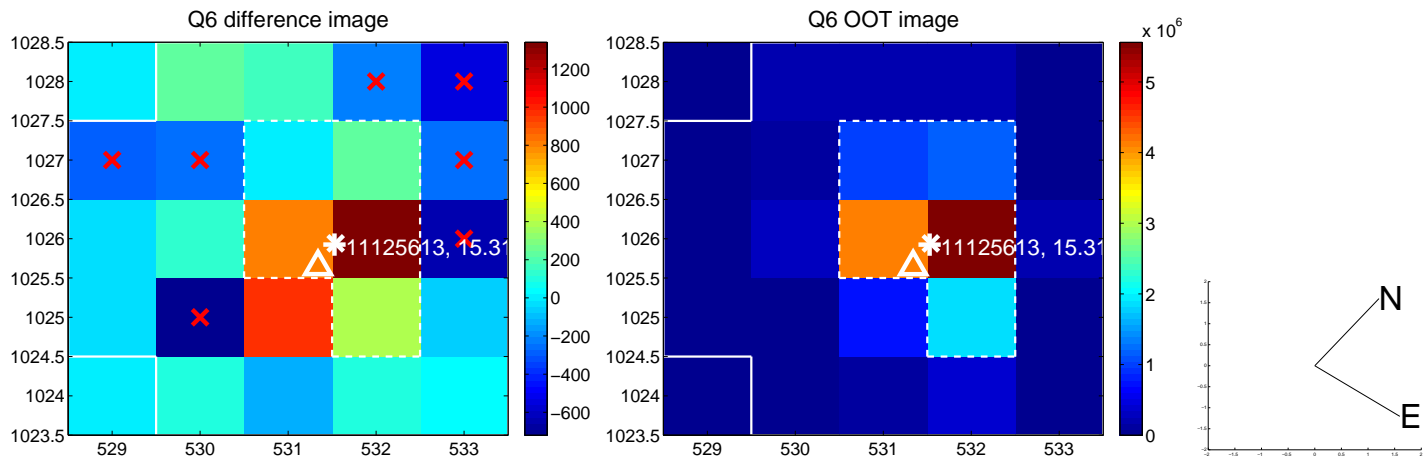
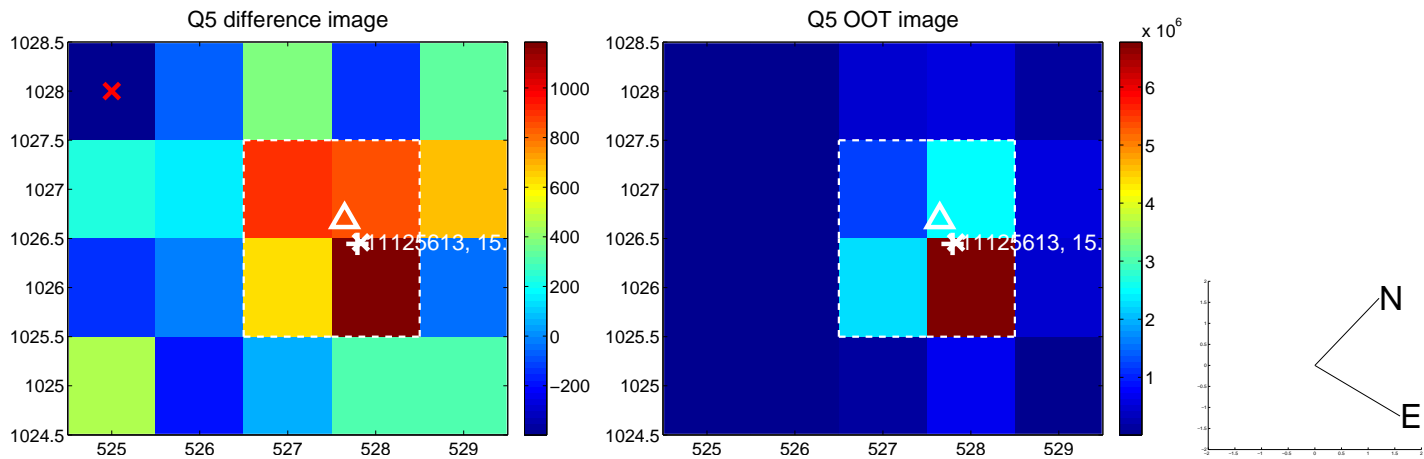


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

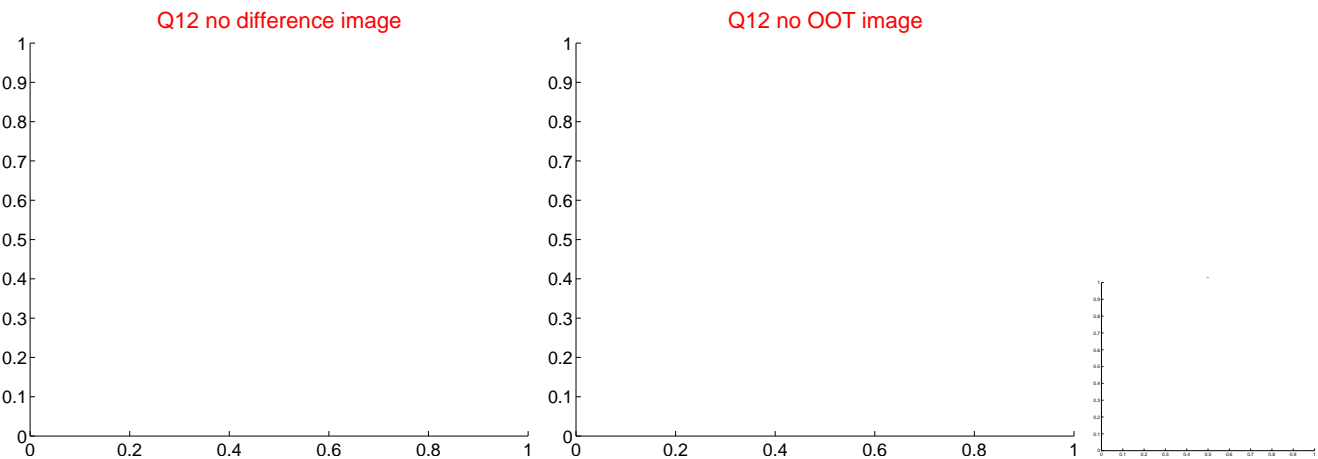
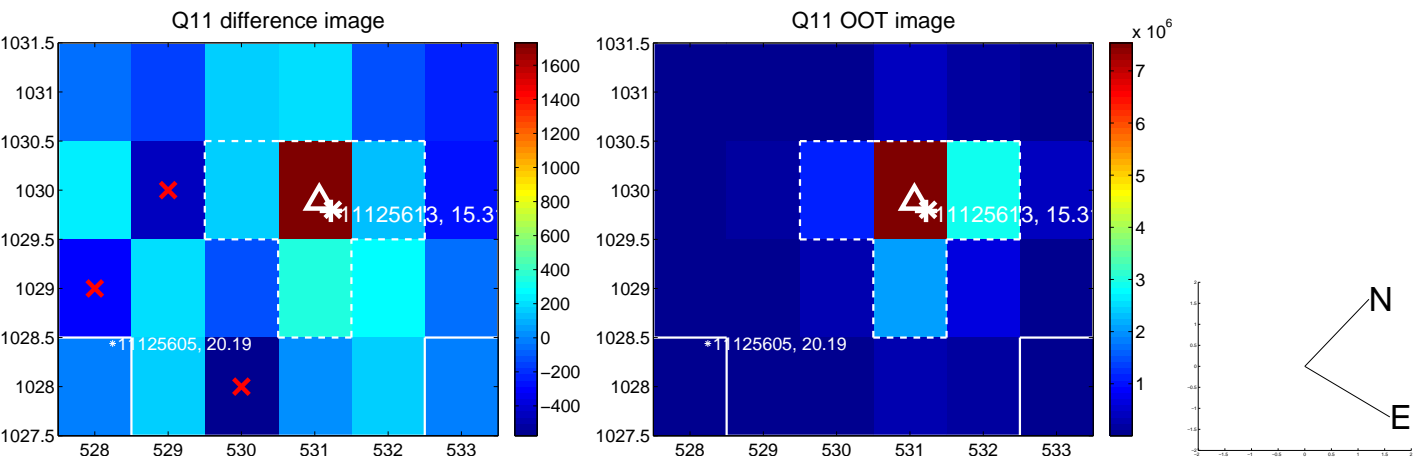
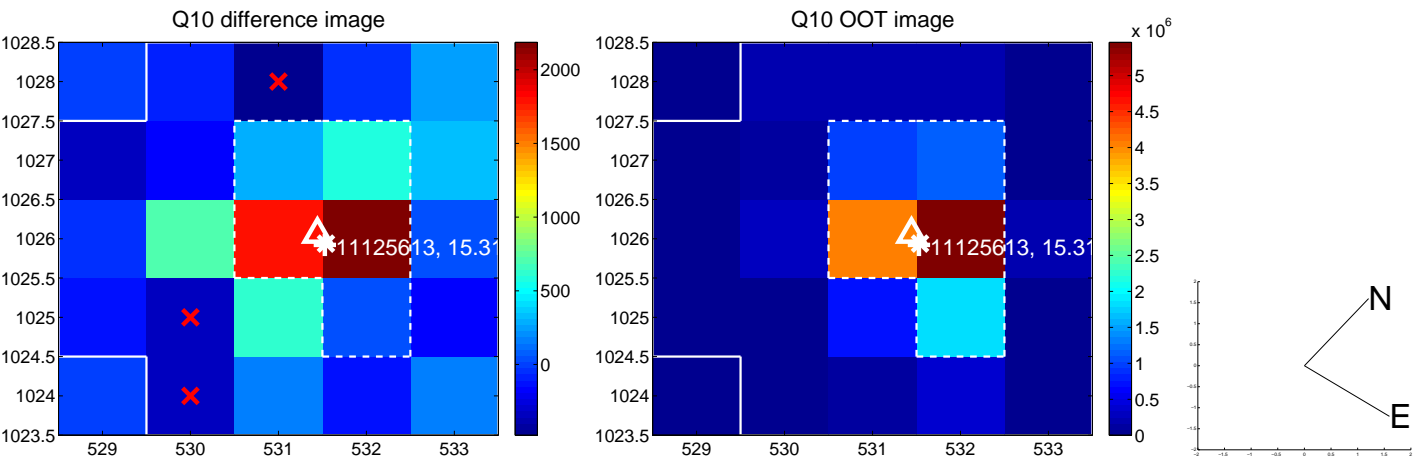
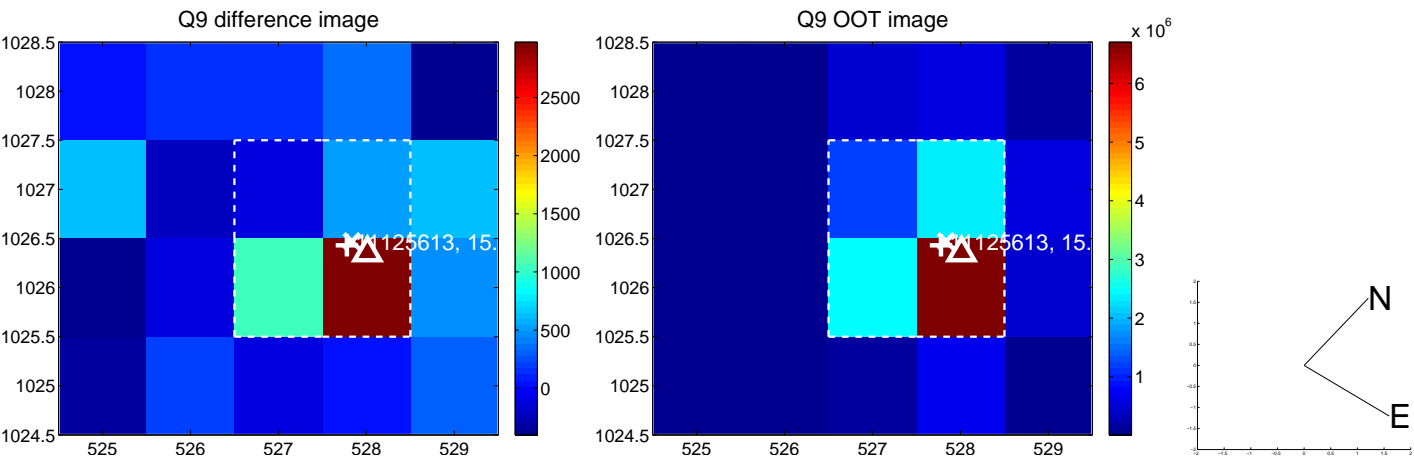
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



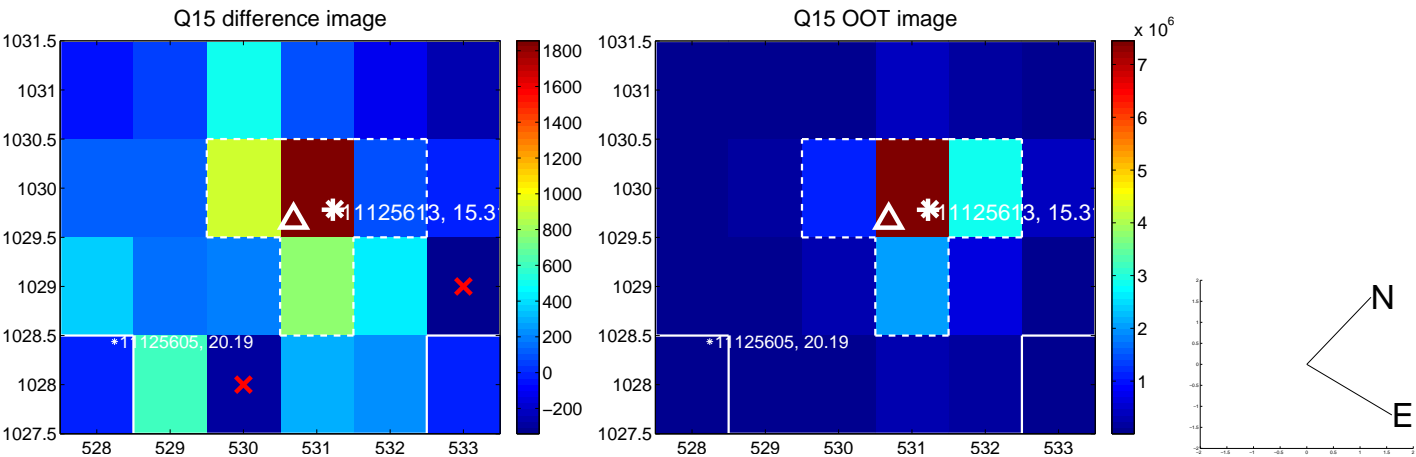
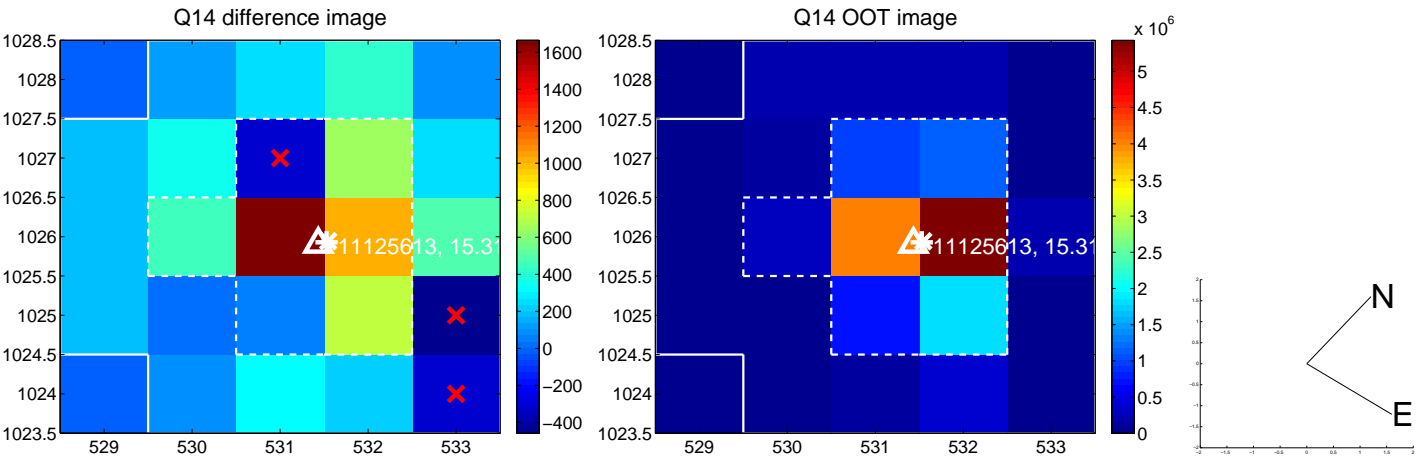
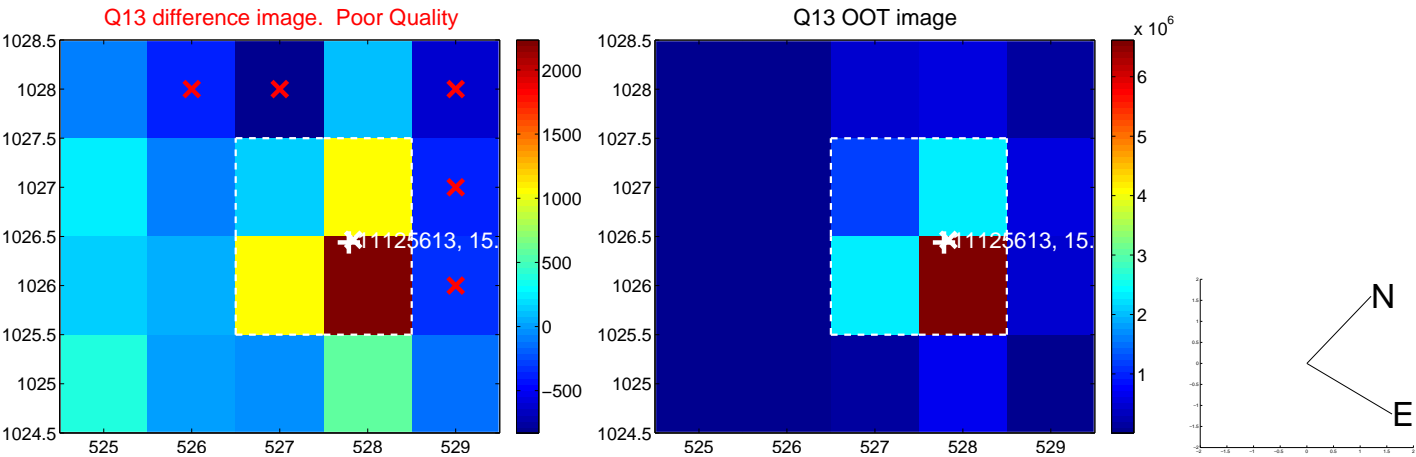
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



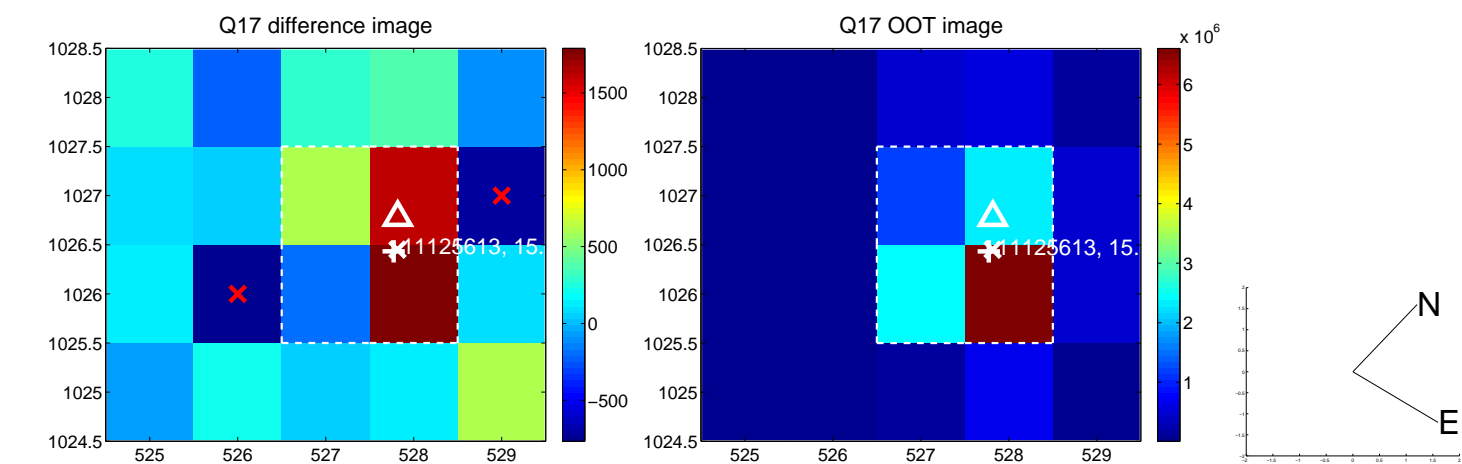
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



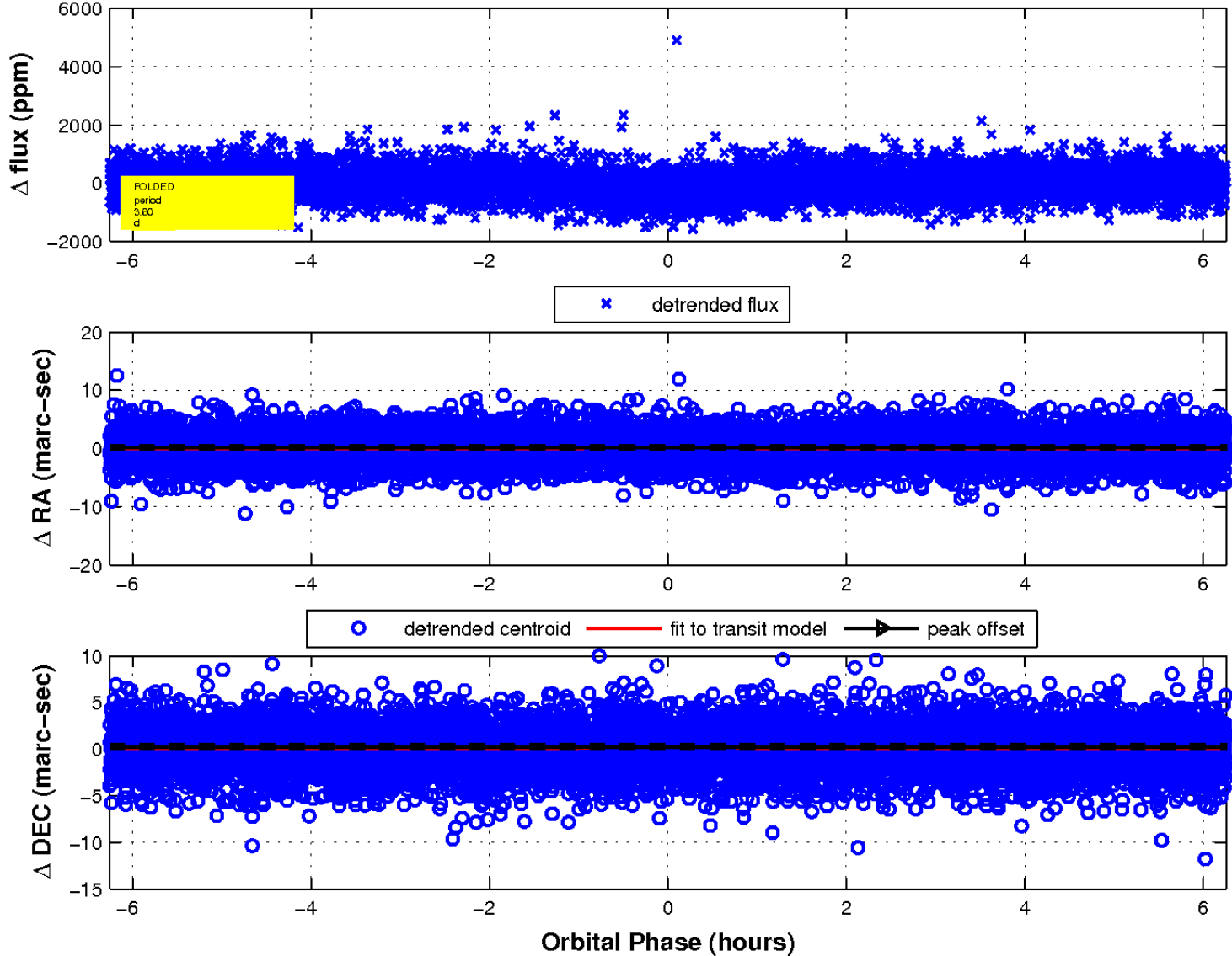
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

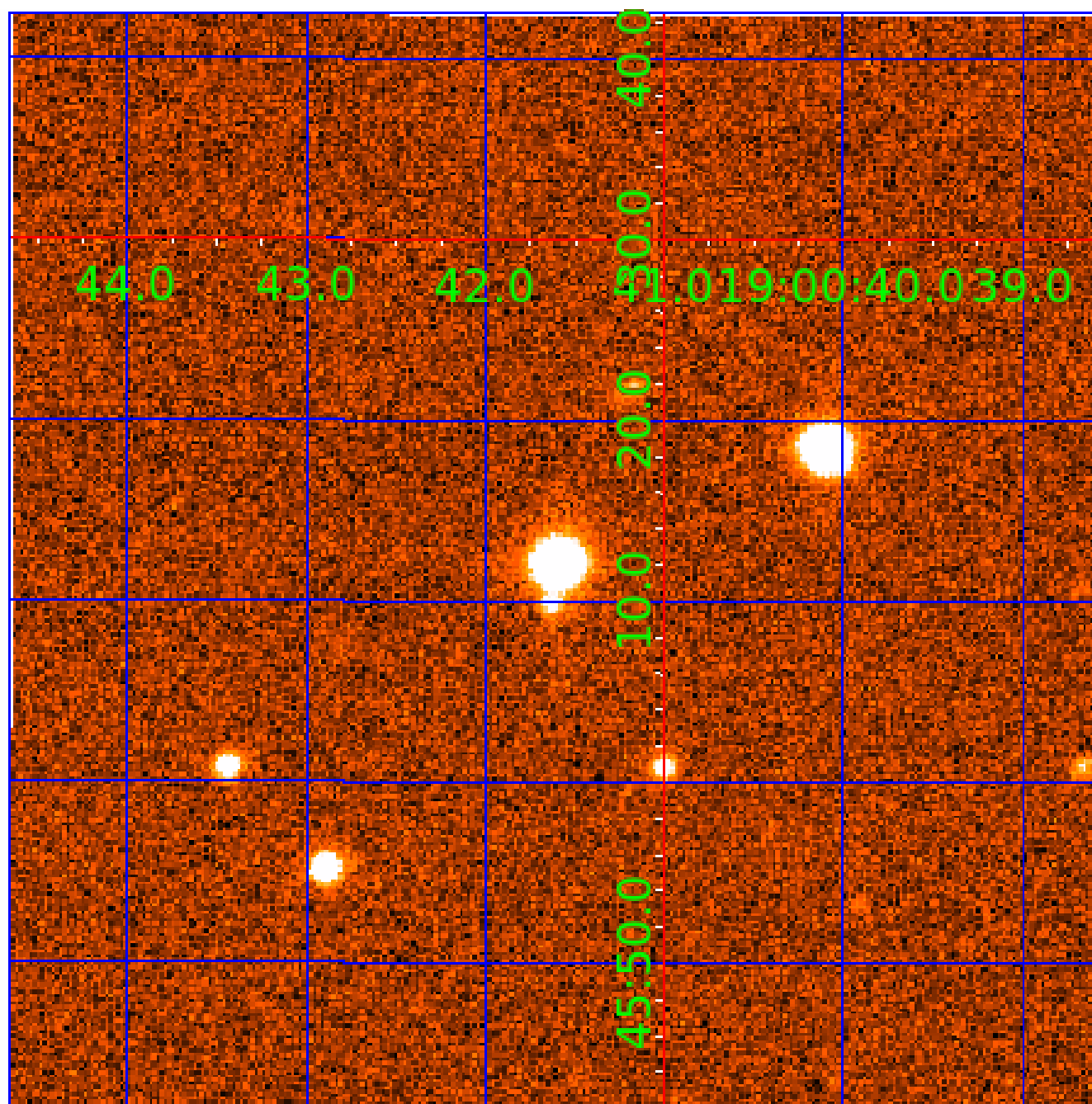


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 01125613

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})
011125613-01	OBS	2485.02	3.600833	134.037223	292.1	2.088	14.5	16.5	0.80	4838	1.69	174.70
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011125613-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011125613-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011125613-03	OBS	PC	0.99	0	0	0	0	NO_COMMENT

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

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

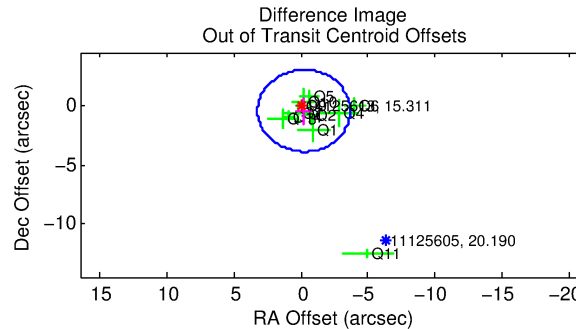
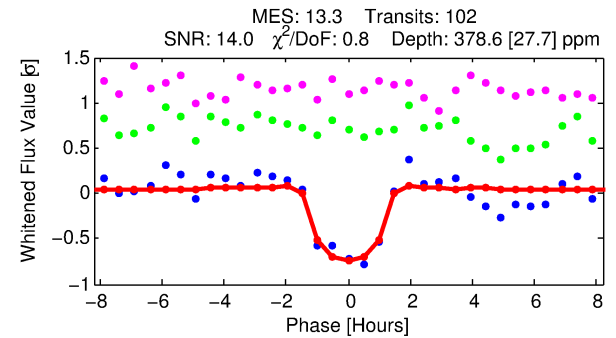
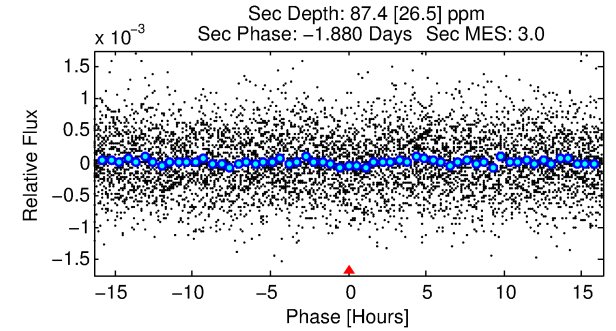
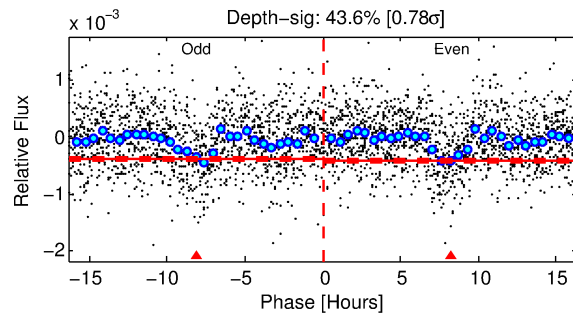
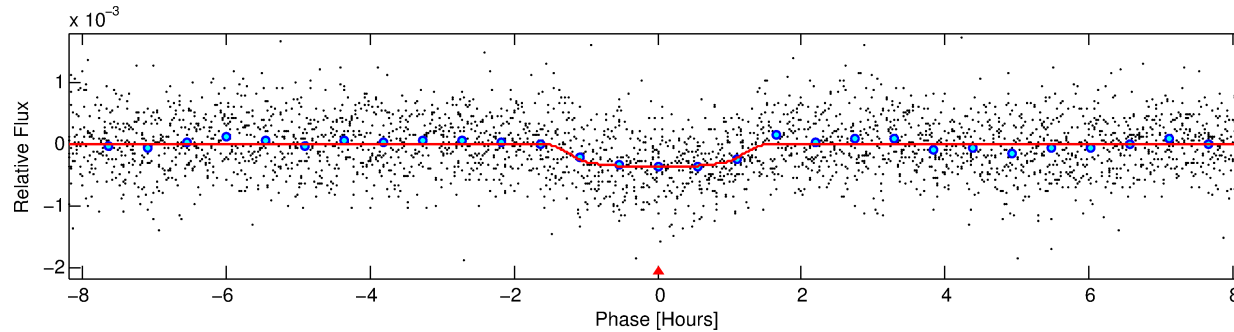
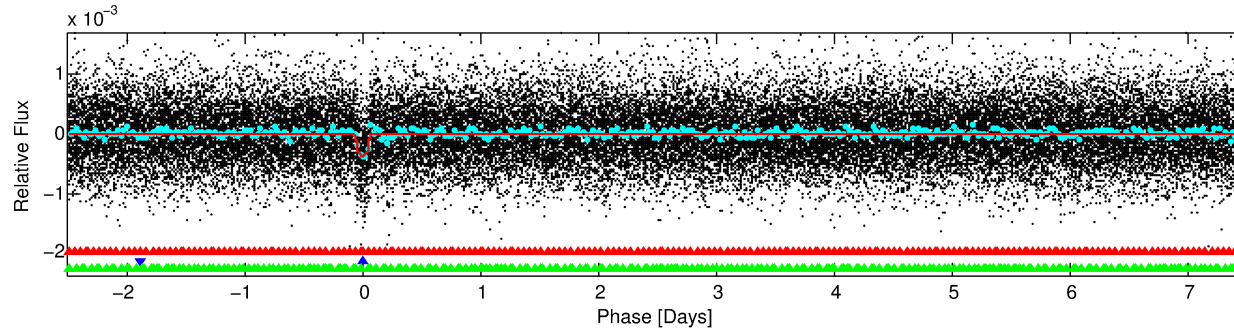
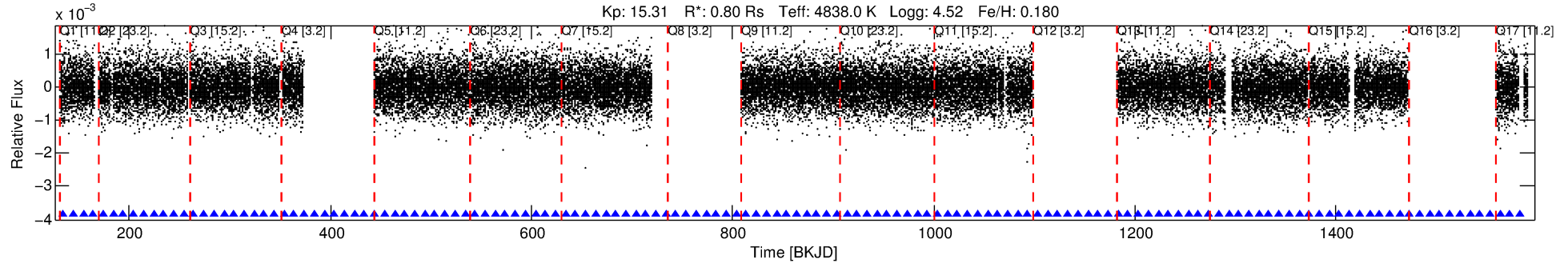
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011125613-02

No Significant Match Found

DV One-Page Summary

KIC: 11125613 Candidate: 2 of 3 Period: 9.991 d
KOI: K02485.01 Corr: 0.976



DV Fit Results:

Period = 9.99107 [0.00005] d
Epoch = 134.3982 [0.0041] BKJD
Rp/R* = 0.0208 [0.0132]
a/R* = 15.85 [35.84]
b = 0.85 [0.77]
Seff = 44.81 [5.57]
Teq = 660 [21] K
Rp = 1.81 [1.15] Re
a = 0.0833 [0.0055] AU
Ag = 102.32 [134.14] [0.76 σ]
Teffp = 3244 [1061] K [2.44 σ]

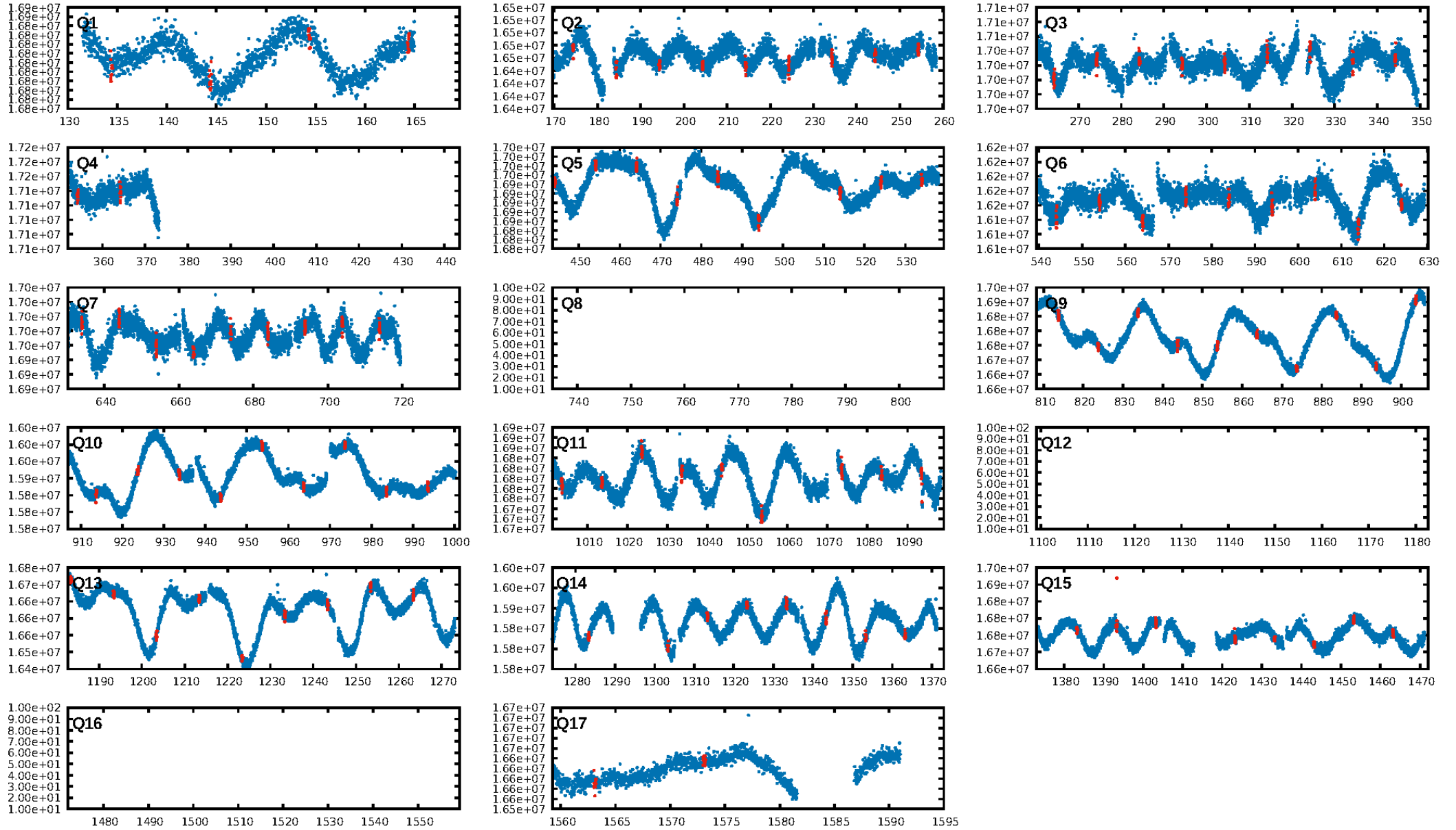
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [28.33 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 96.6%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.05e-39
RollingBand-fgt: 1.00 [94/94]
GhostDiagnostic-chr: 4.286
Centroid-sig: 8.7%
Centroid-so: 1.012 arcsec [1.07 σ]
OotOffset-rm: 0.488 arcsec [0.42 σ]
KicOffset-rm: 0.653 arcsec [0.52 σ]
OotOffset-st: 4/2/1/4 [11]
KicOffset-st: 4/2/1/4 [11]
DiffImageQuality-fgm: 0.64 [7/11]
DiffImageOverlap-fno: 1.00 [14/14]

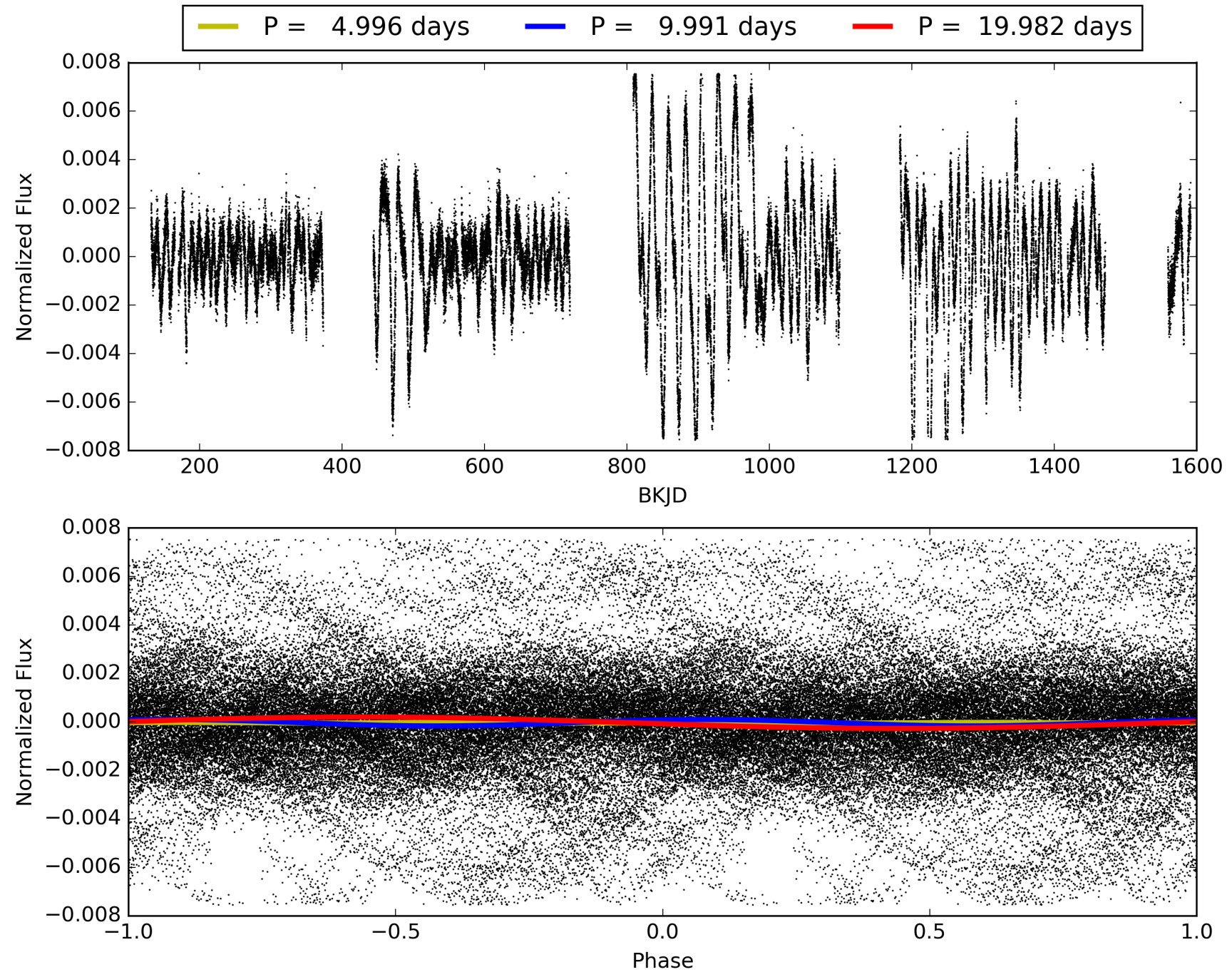
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 05:11:09 Z

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

TCE 011125613-02, PDC Light Curves

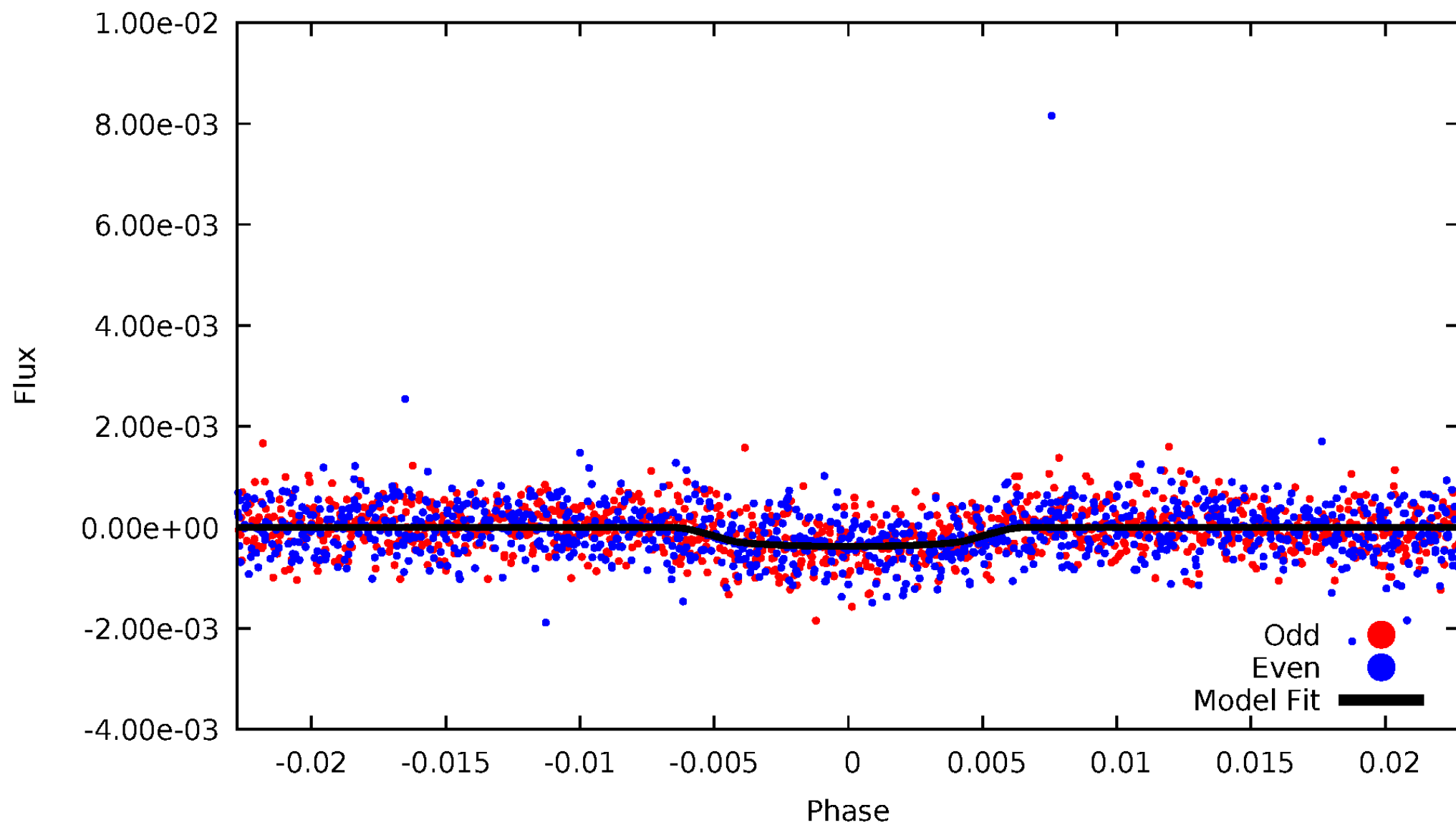


TCE 011125613-02



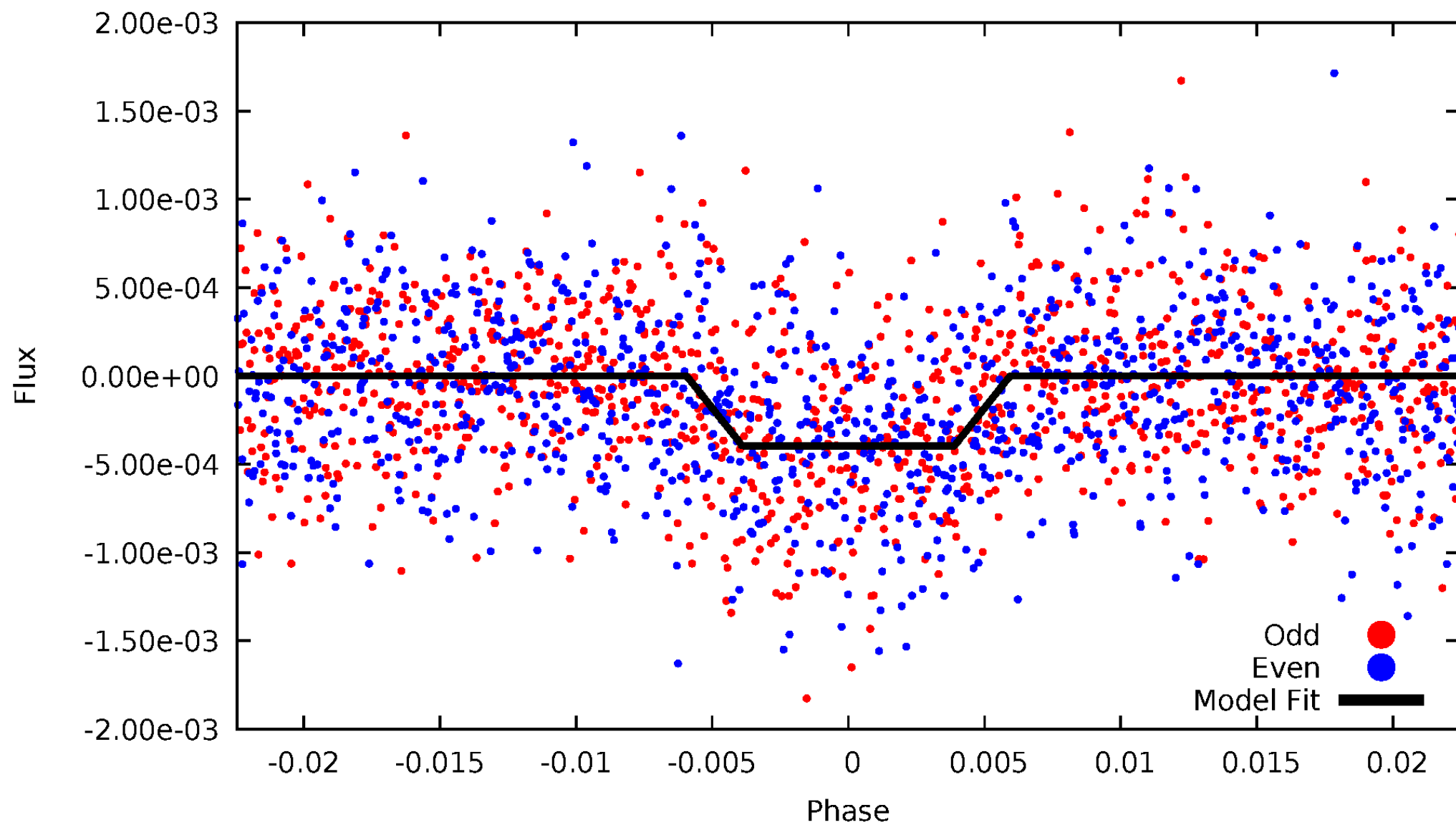
DV Odd/Even

TCE 011125613-02



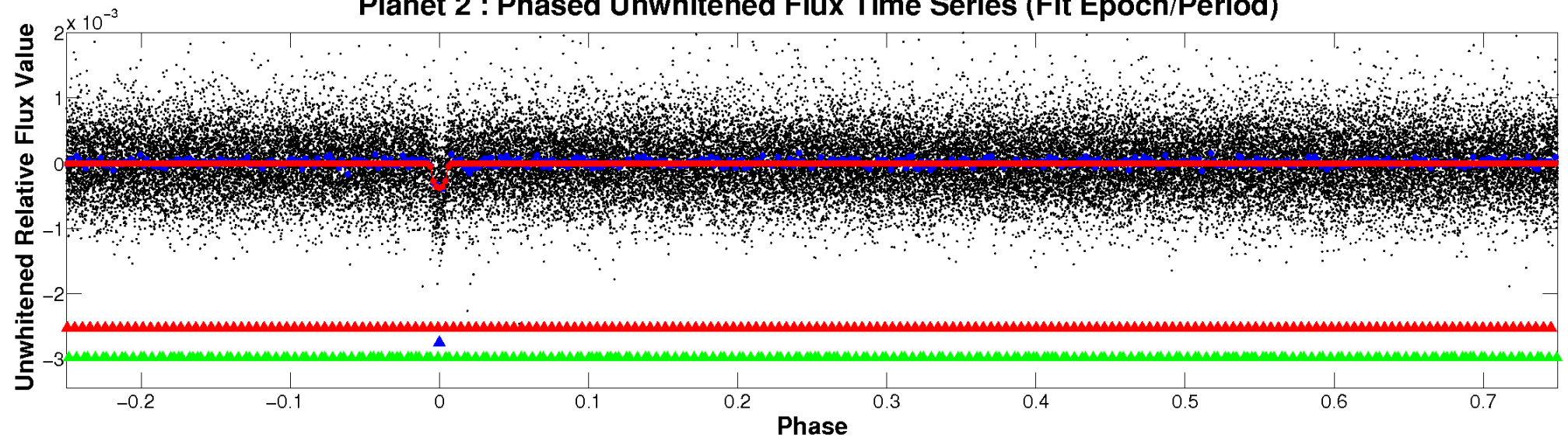
ALT Odd/Even

TCE 011125613-02

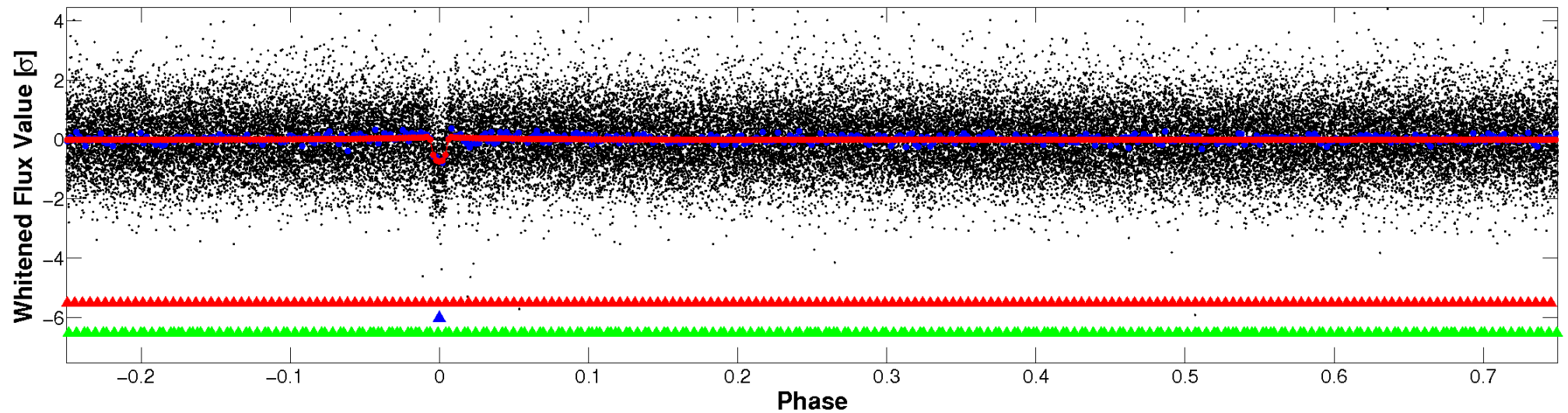


Non-Whitened Vs. Whitened Light Curve

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

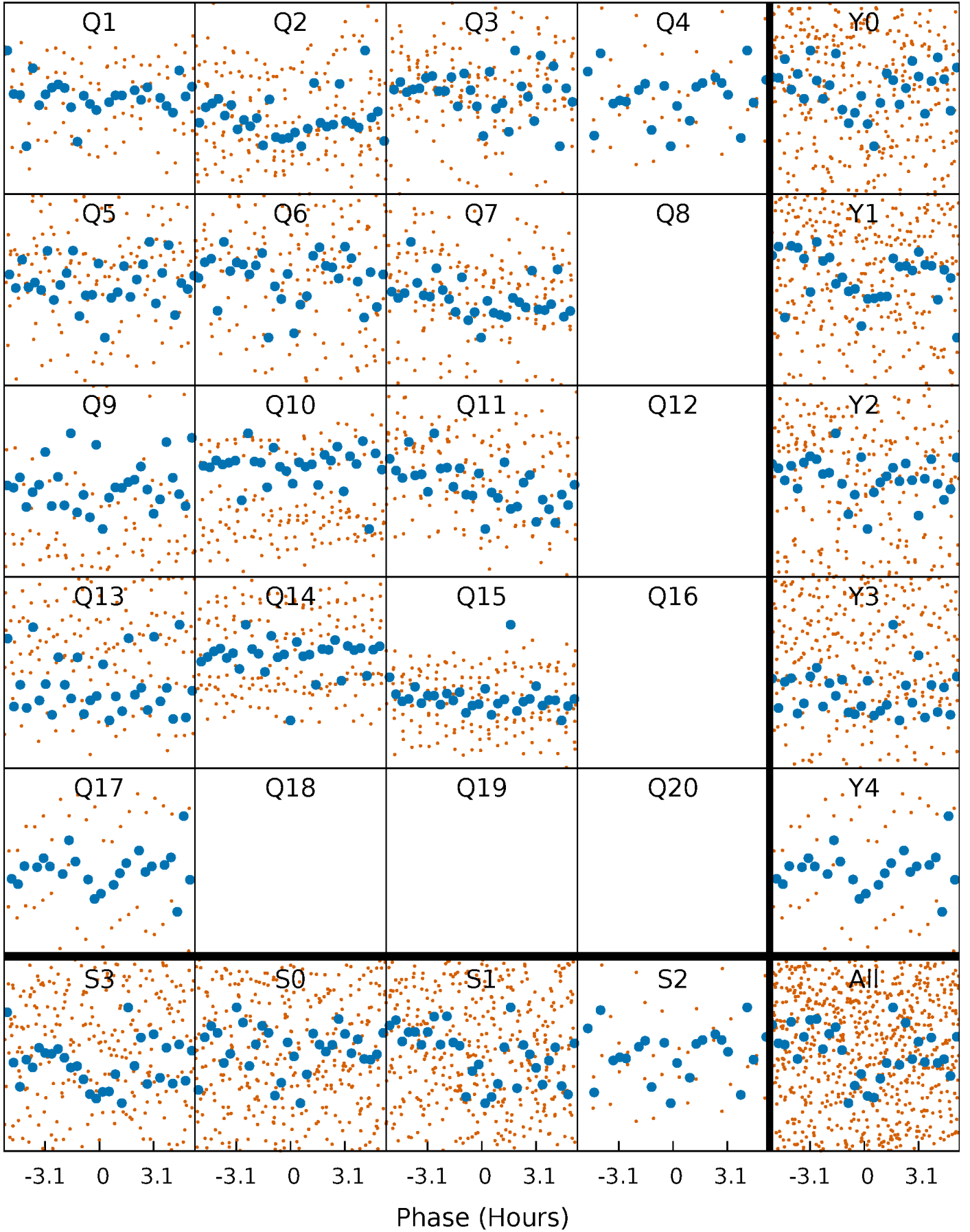


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



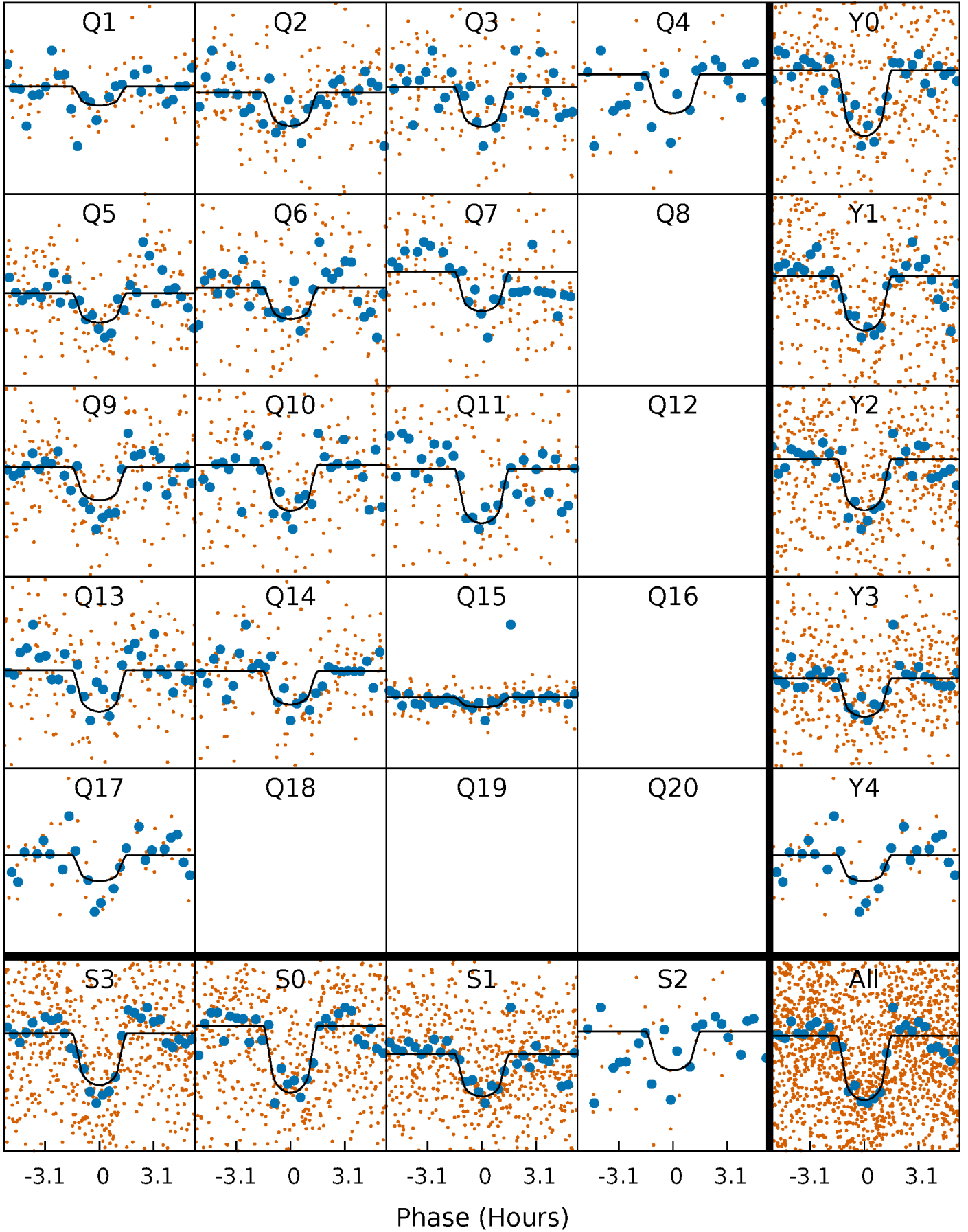
PDC Quarter-Phased Transit Curves

TCE 011125613-02 P= 9.991069 Days $T_0=134.398226$ (BKJD)



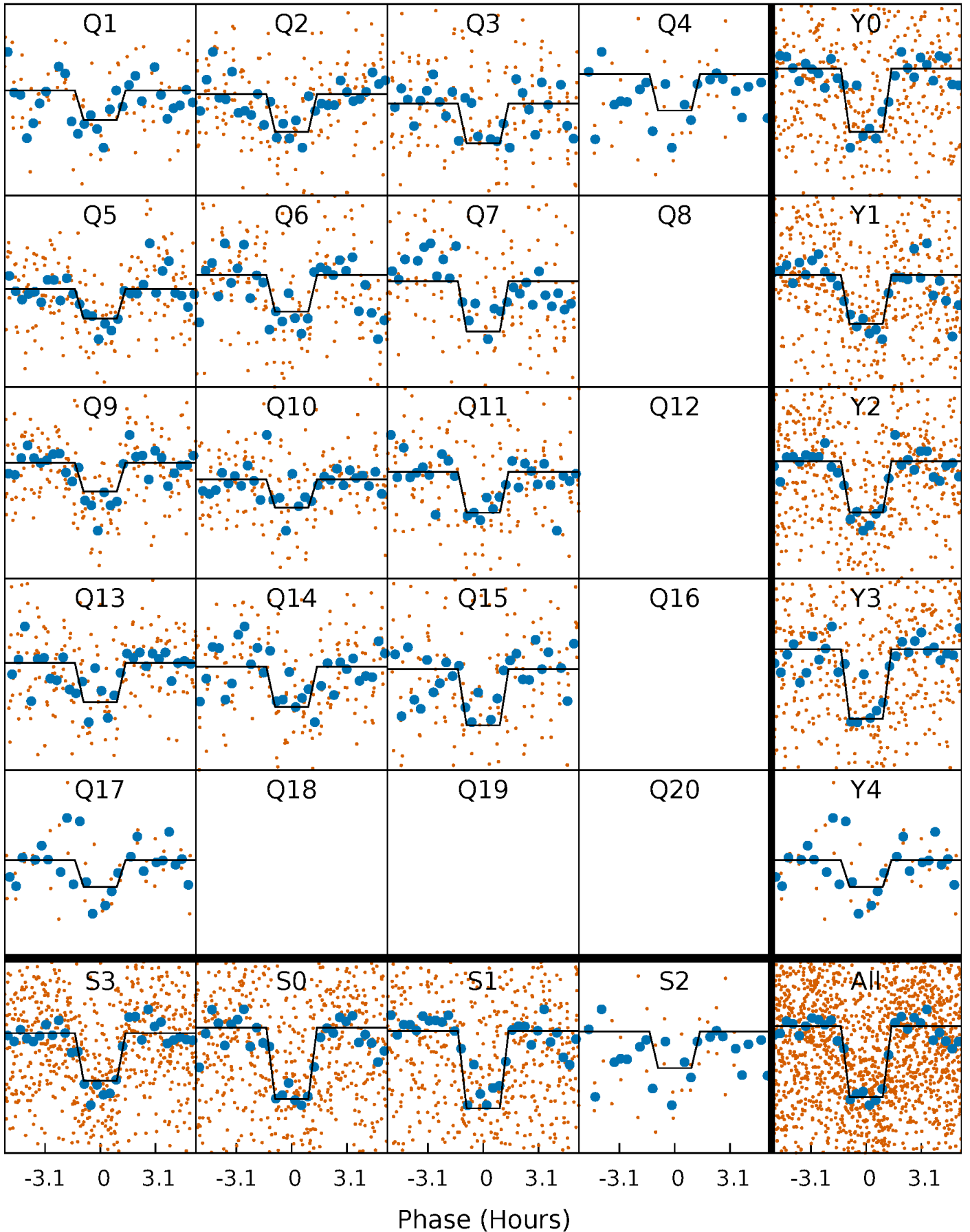
DV Quarter-Phased Transit Curves

TCE 011125613-02 P= 9.991069 Days $T_0=134.398226$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

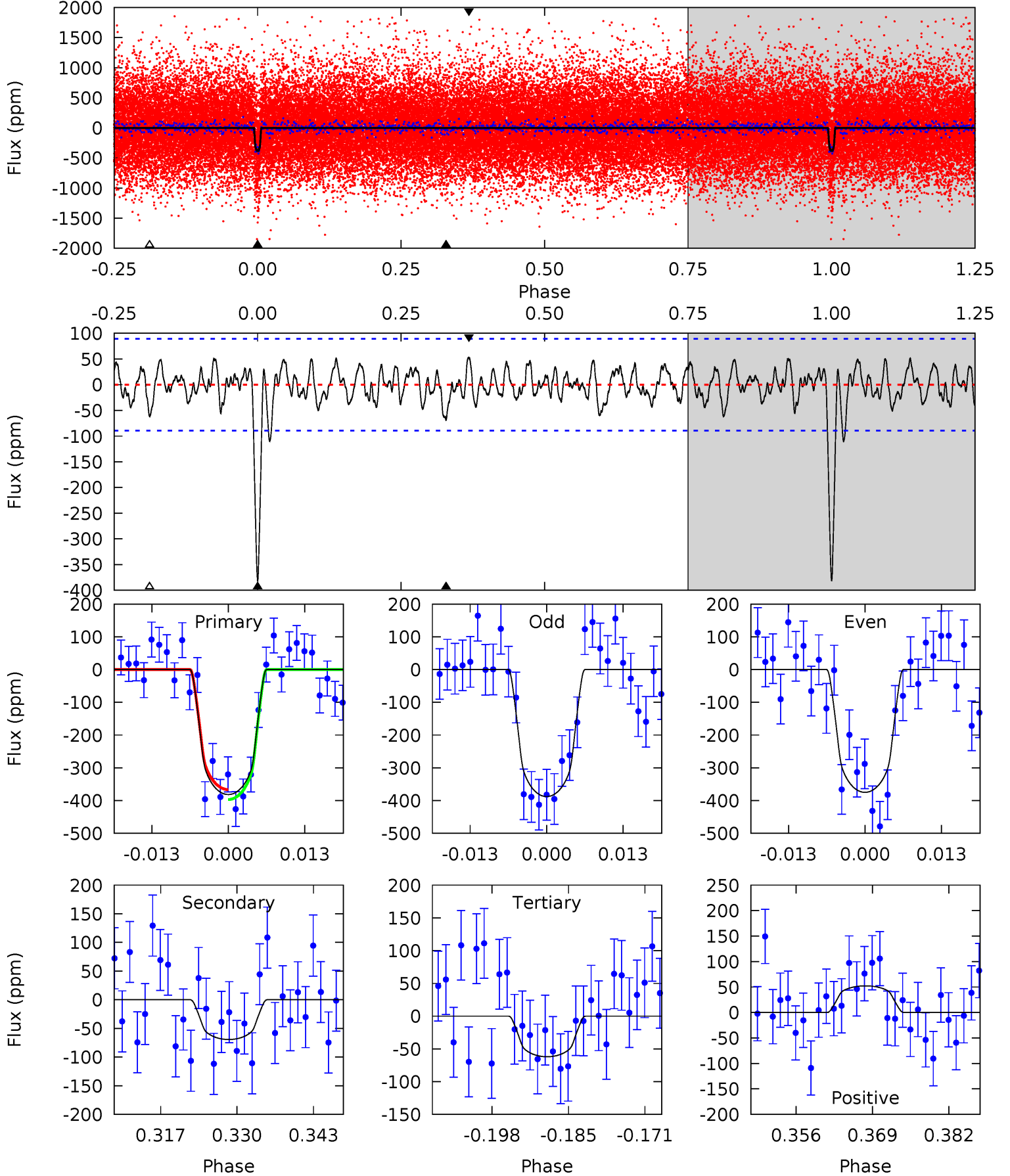
TCE 011125613-02 P= 9.991111 Days $T_0=134.395332$ (BKJD)



DV Model-Shift Uniqueness Test

011125613-02, P = 9.991069 Days, E = 124.407157 Days

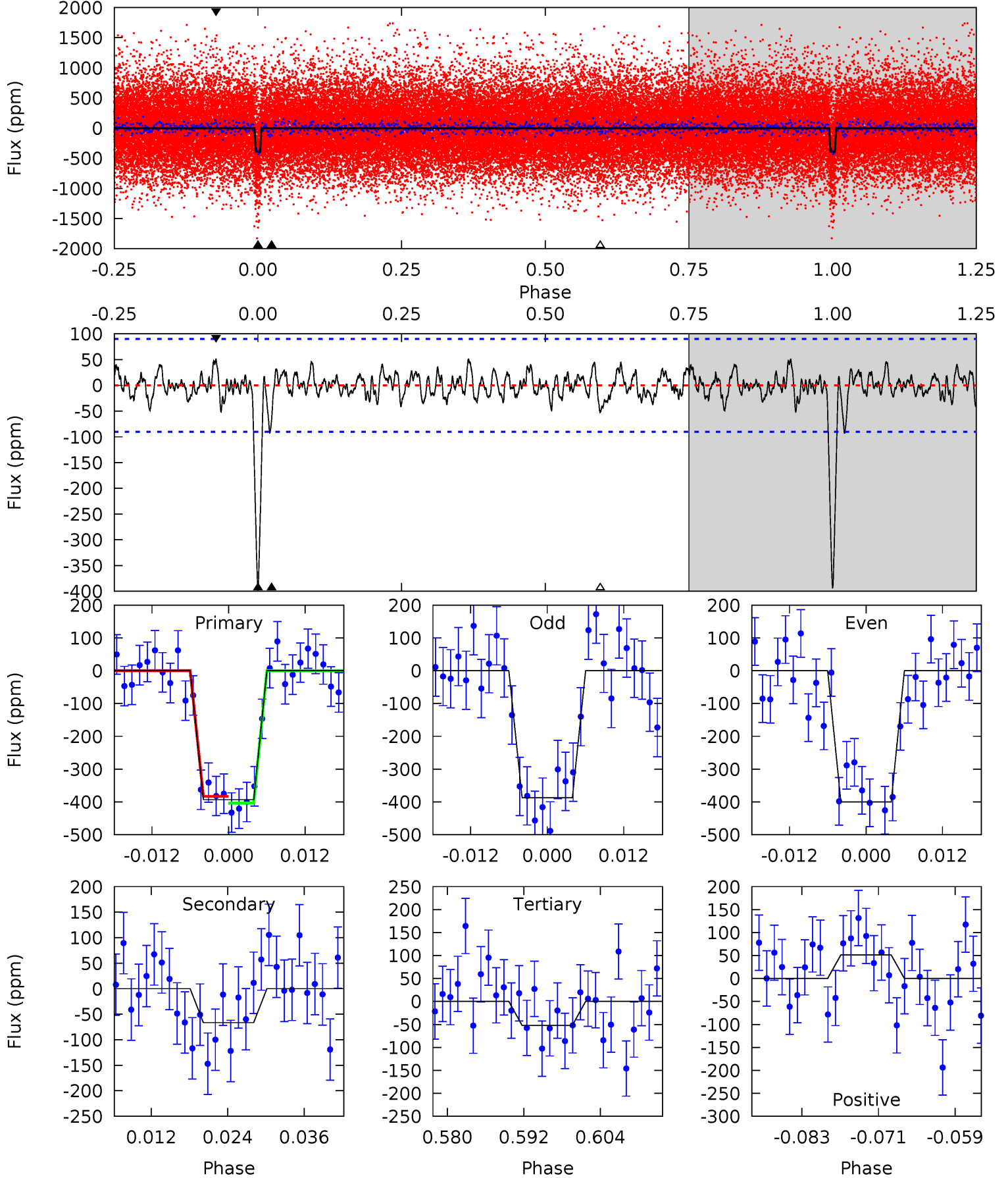
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.3	3.87	3.45	2.91	4.97	2.48	1.42	17.8	18.4	0.41	0.95	0.36	1.04	0.12	0.85



Alt Model-Shift Uniqueness Test

011125613-02, P = 9.991111 Days, E = 124.404221 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.8	3.68	2.89	2.84	4.99	2.52	1.07	18.9	18.9	0.80	0.84	0.37	1.01	0.12	0.58



Stellar Parameters For KIC 011125613

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4838^{+77}_{-77}	$4.524^{+0.063}_{-0.018}$	$0.180^{+0.150}_{-0.150}$	$0.796^{+0.027}_{-0.054}$	$0.771^{+0.047}_{-0.027}$	$2.156^{+0.498}_{-0.172}$
	+2%/-2%	+1%/-0%	+83%/-83%	+3%/-7%	+6%/-4%	+23%/-8%
Source	SPE90	SPE90	SPE90	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 011125613-02 / KOI 2485.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-69 ± 18	$1.89^{+1.11}_{-0.97}$	916^{+19}_{-22}	3400^{+977}_{-449}	73^{+252}_{-45}
Alt.	-67 ± 18	$1.77^{+1.13}_{-0.96}$	915^{+19}_{-21}	3441^{+1124}_{-484}	79^{+314}_{-51}

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

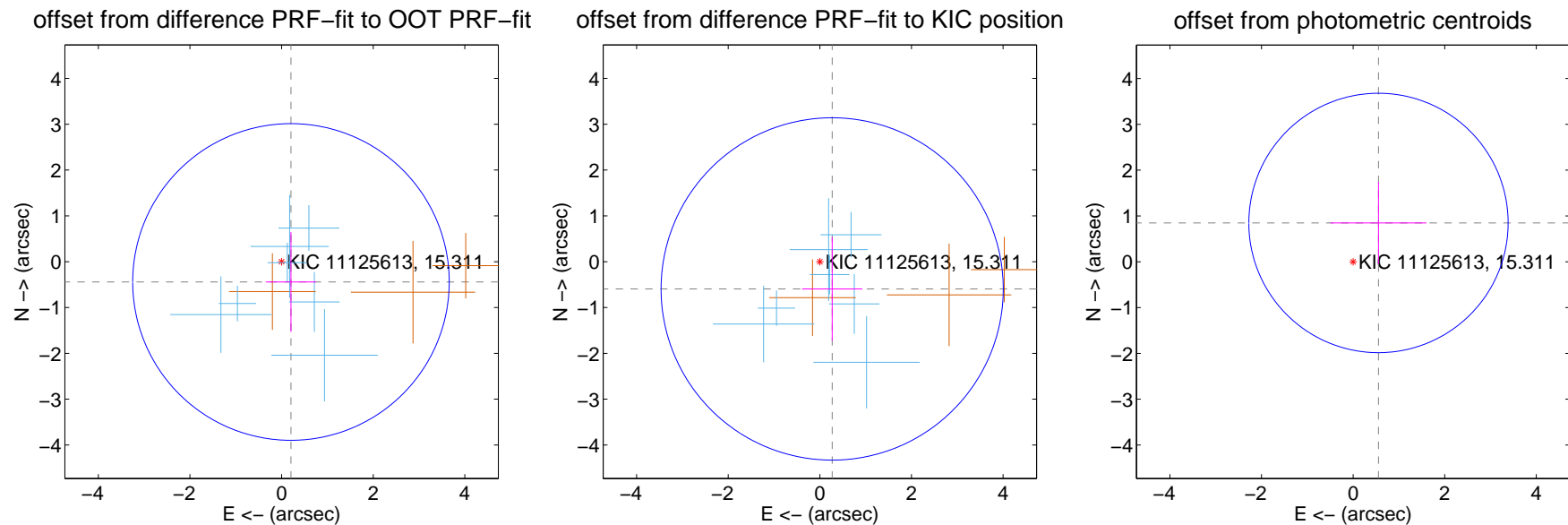
DV Centroid Data

Supplemental centroid analysis for 011125613-02. Kepler magnitude: 15.31. Transit SNR 13.97

There are 7 quarters with good PRF difference image offsets

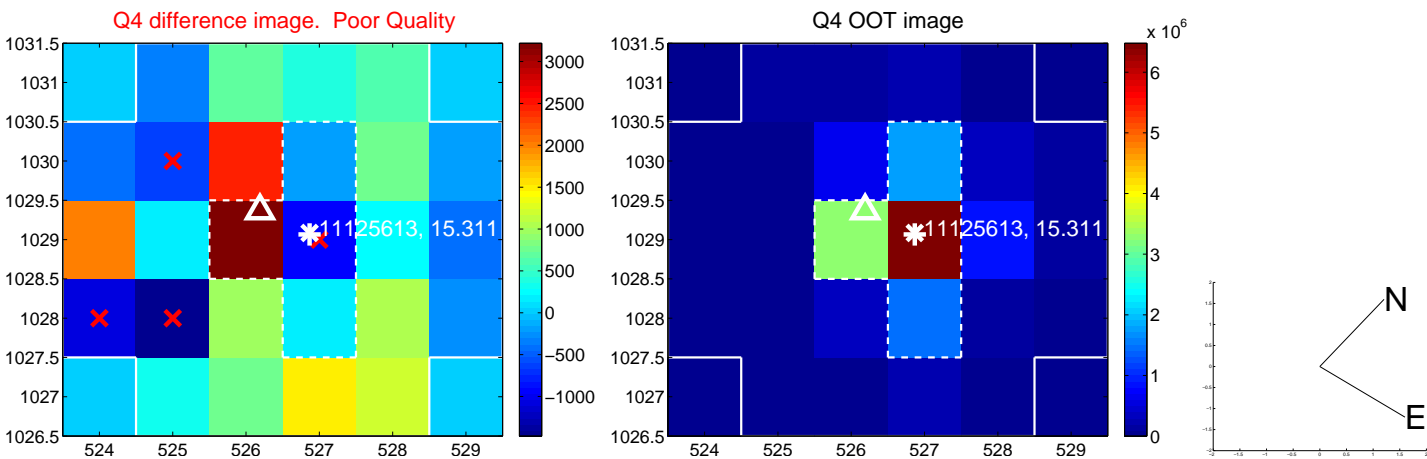
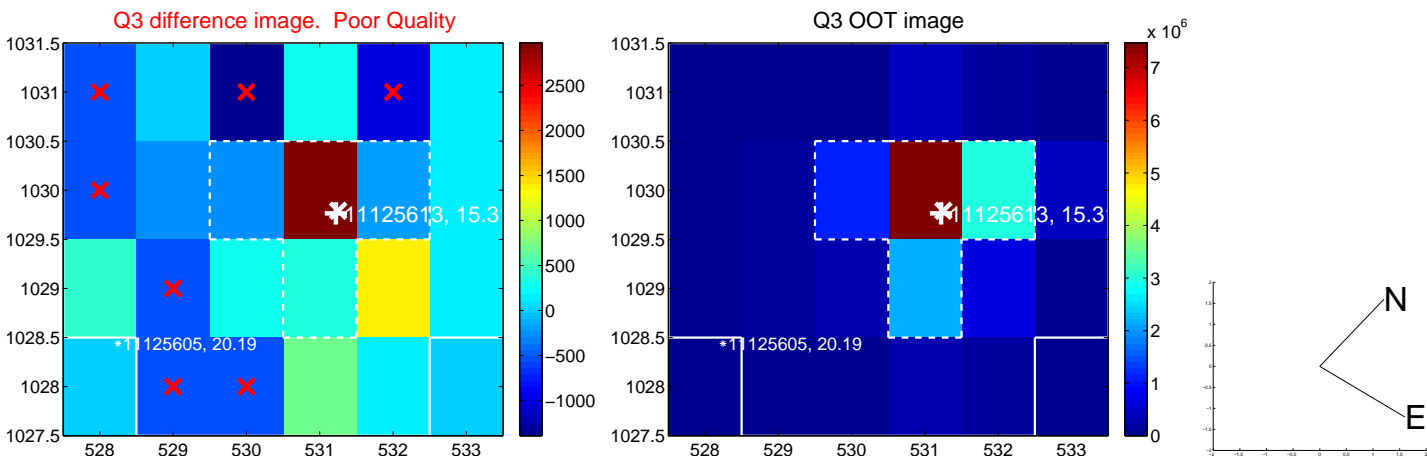
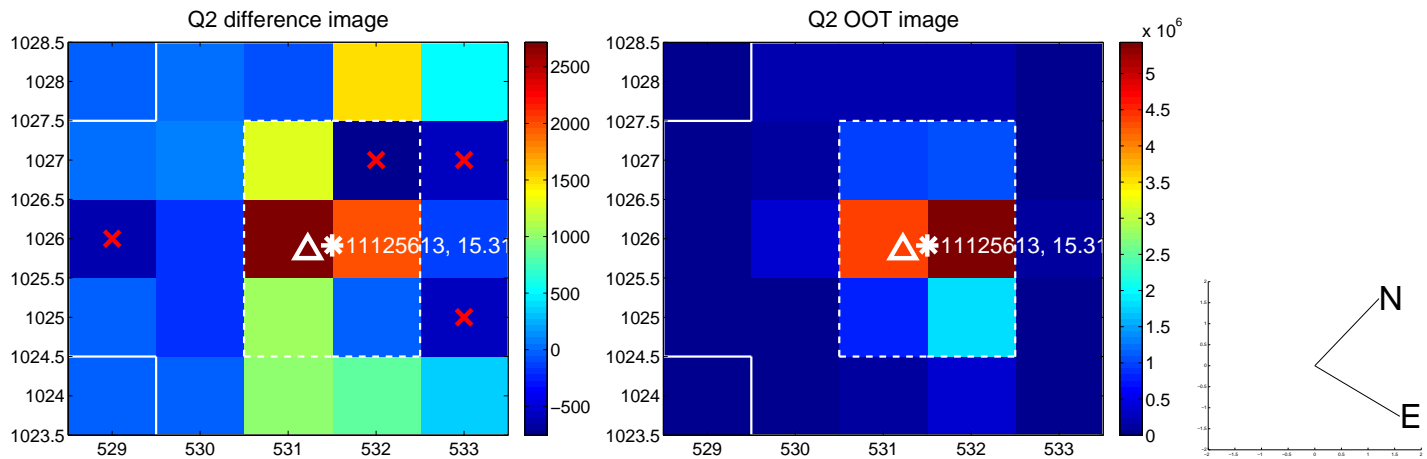
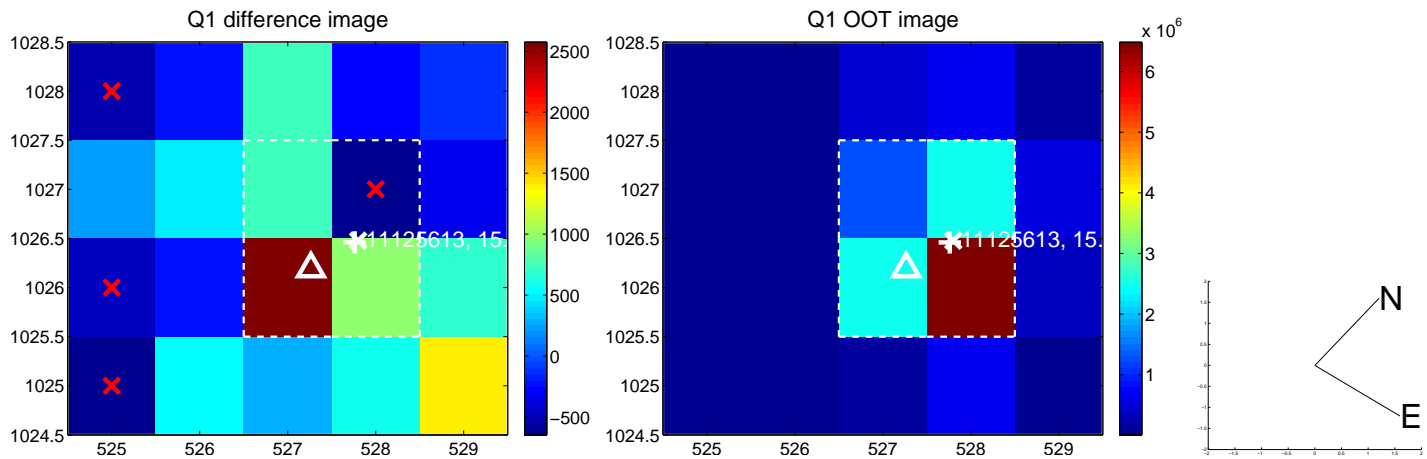
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.488 ± 1.152	0.42	-0.205 ± 0.550	-0.443 ± 1.089
PRF-fit source offset from KIC position	0.653 ± 1.245	0.52	-0.269 ± 0.658	-0.595 ± 1.130
photometric centroid source offset	1.01 ± 0.94	1.07	-0.55 ± 1.05	0.85 ± 0.89

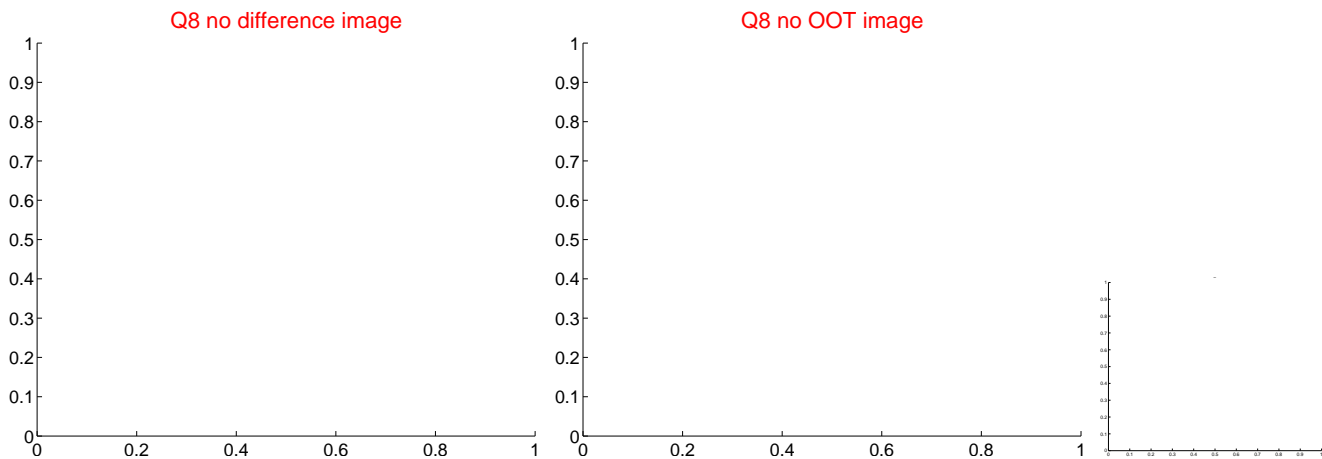
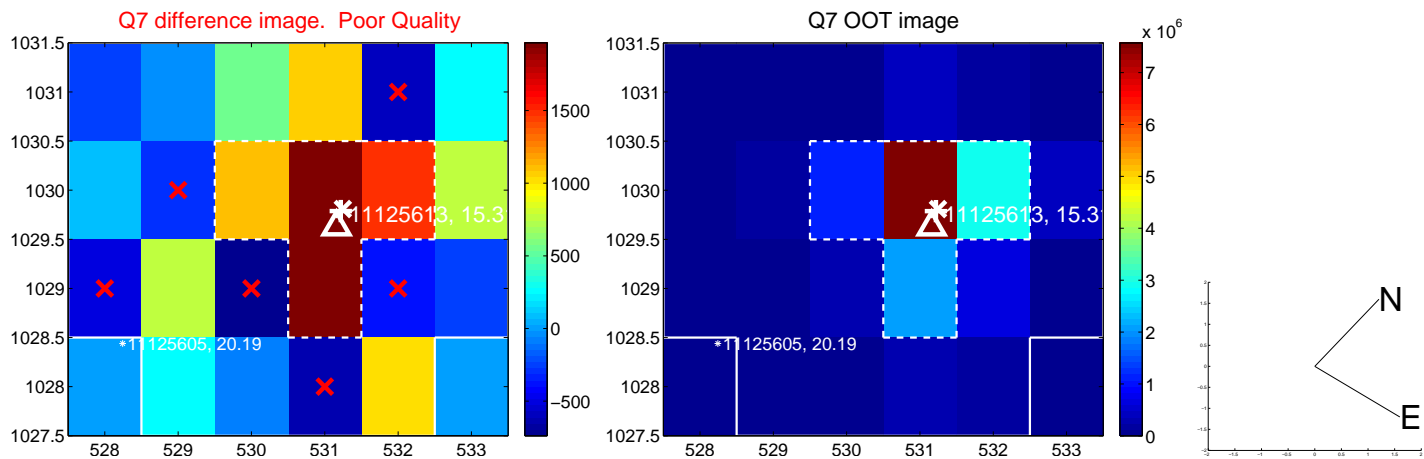
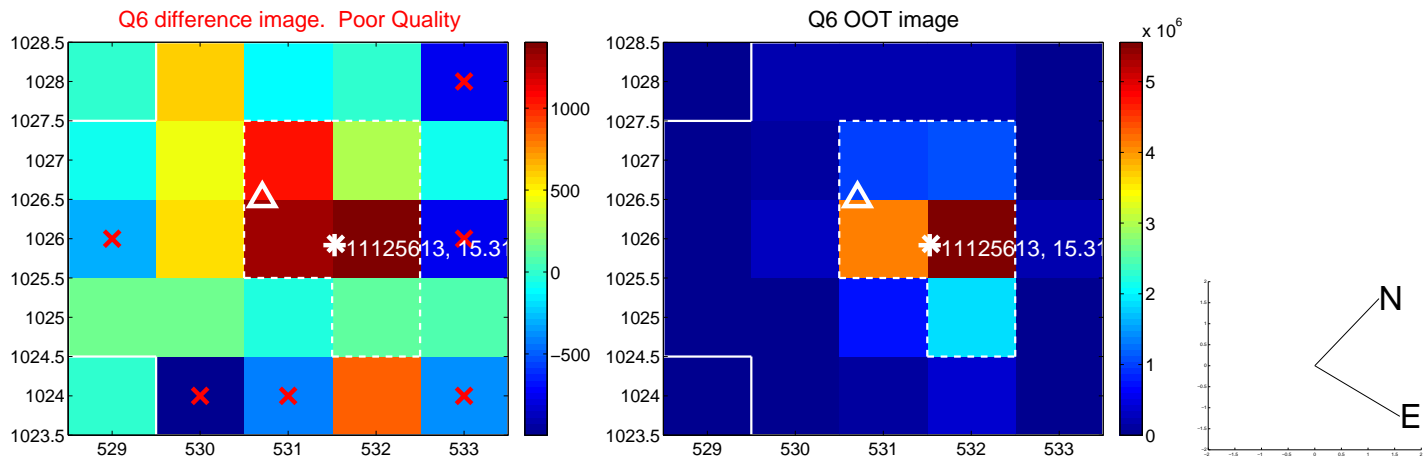
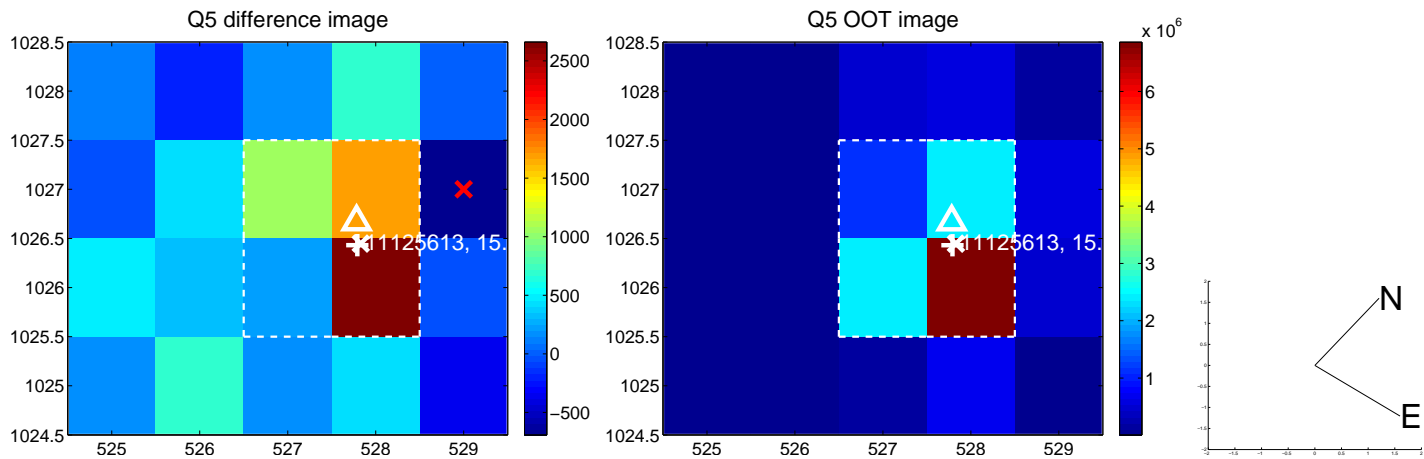


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

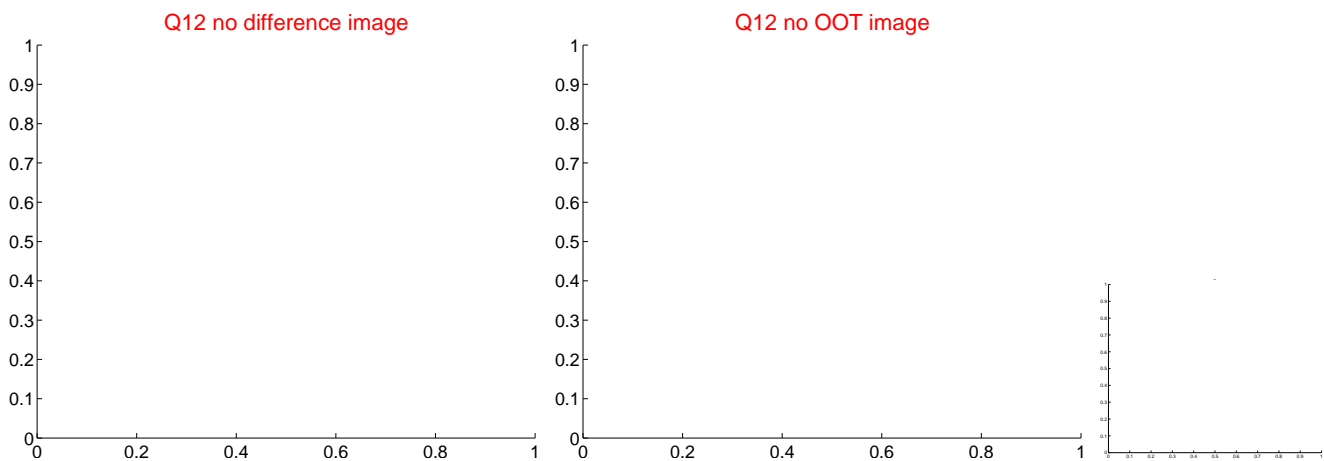
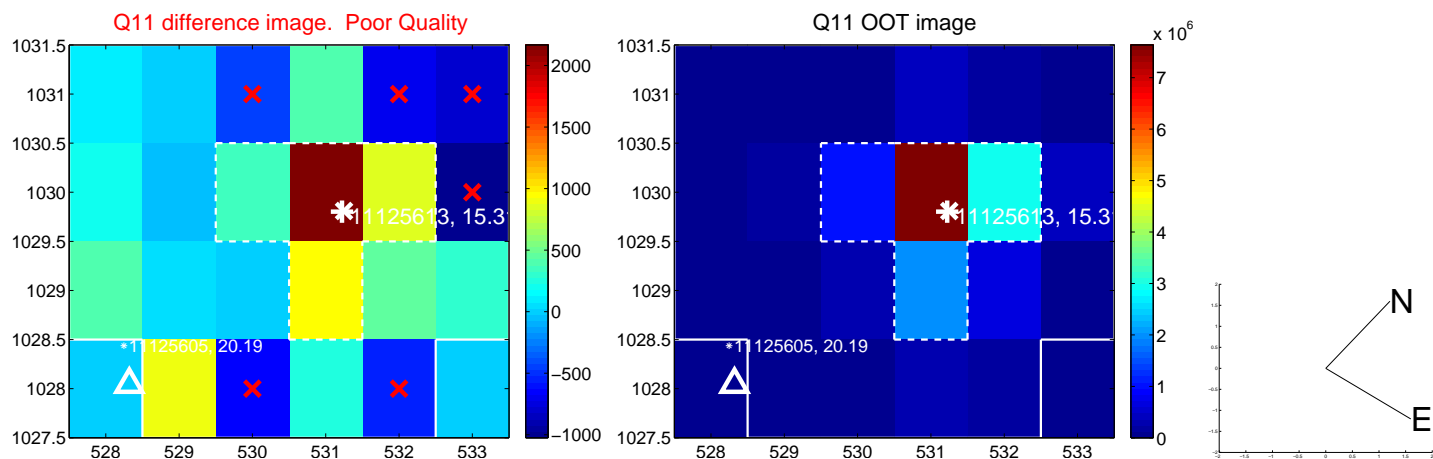
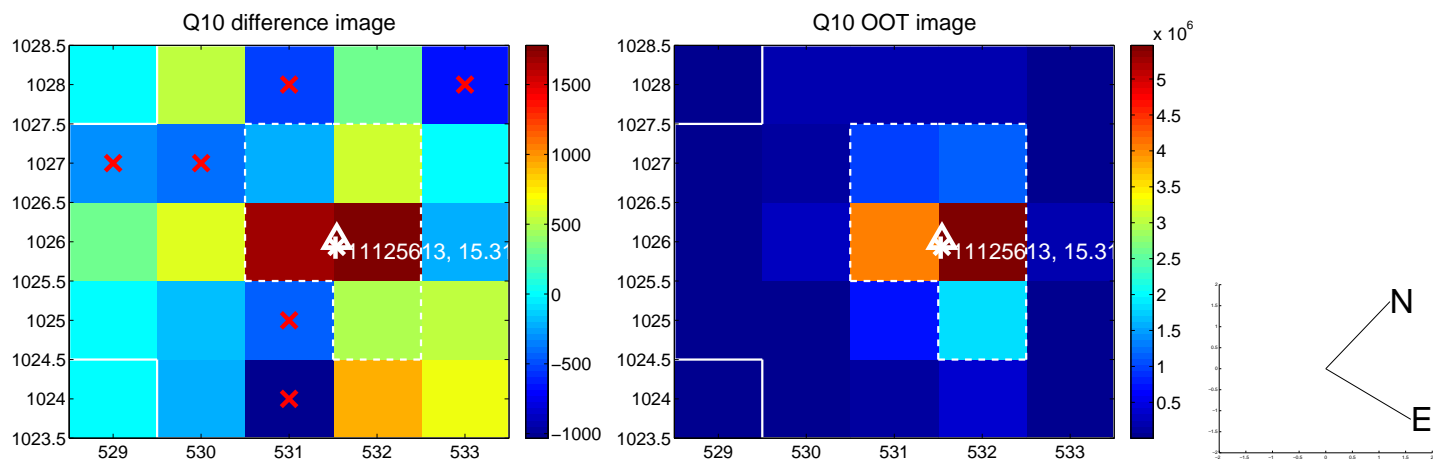
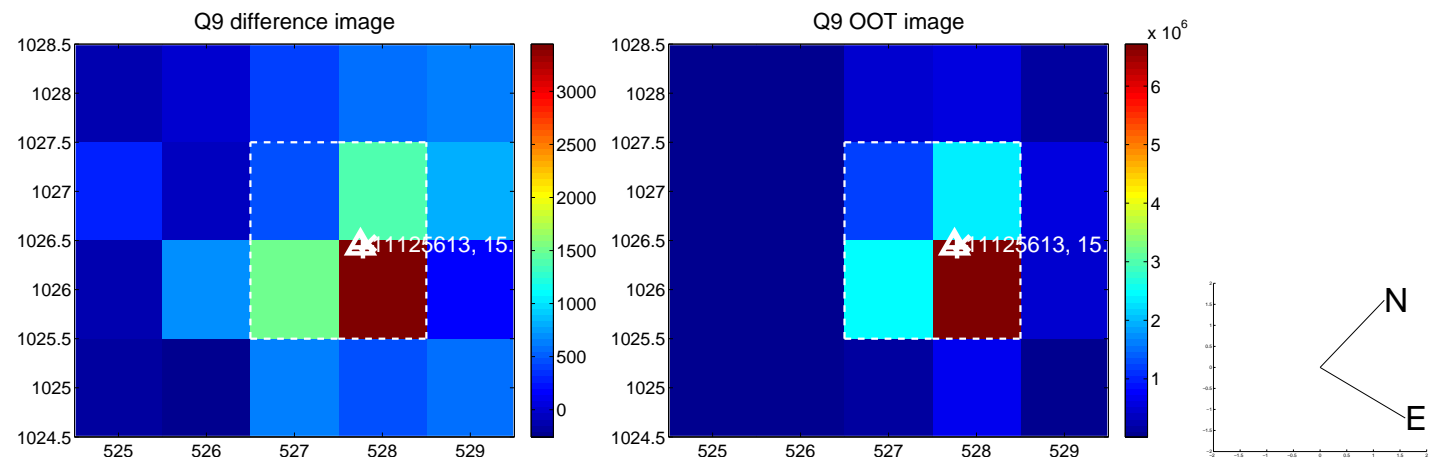
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



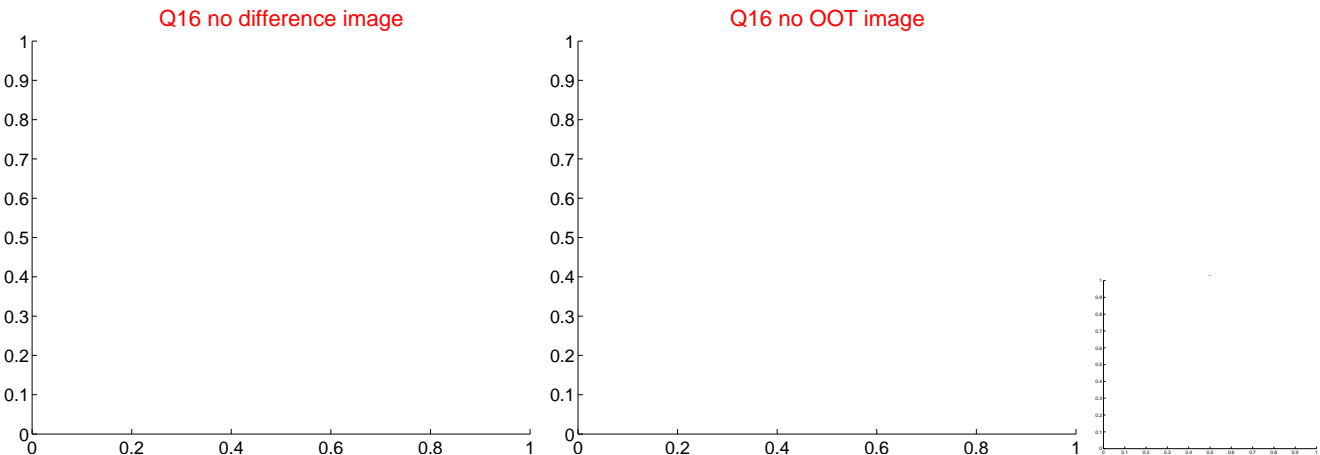
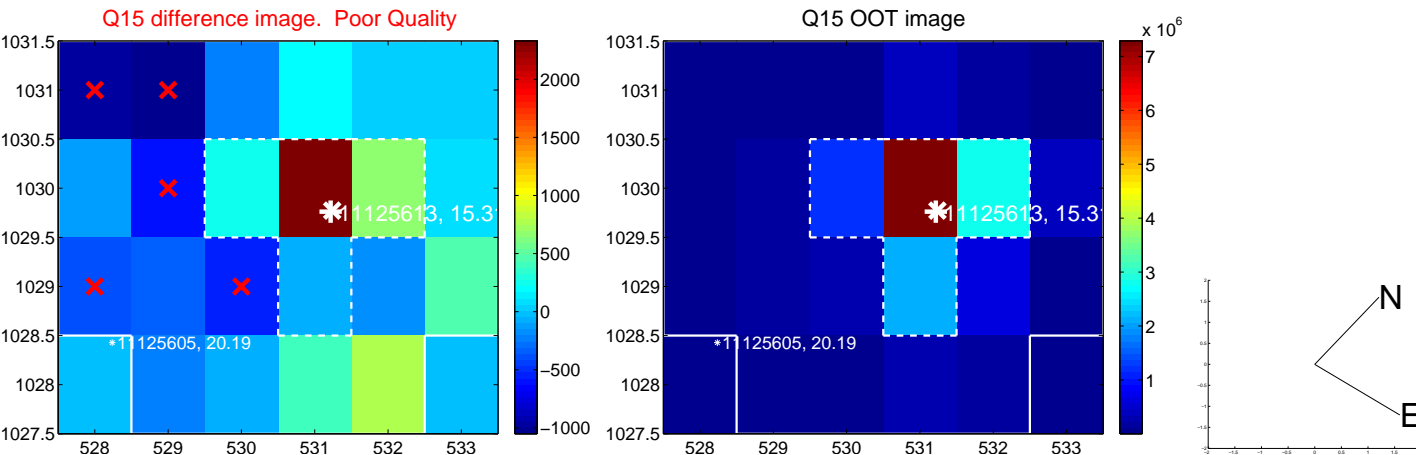
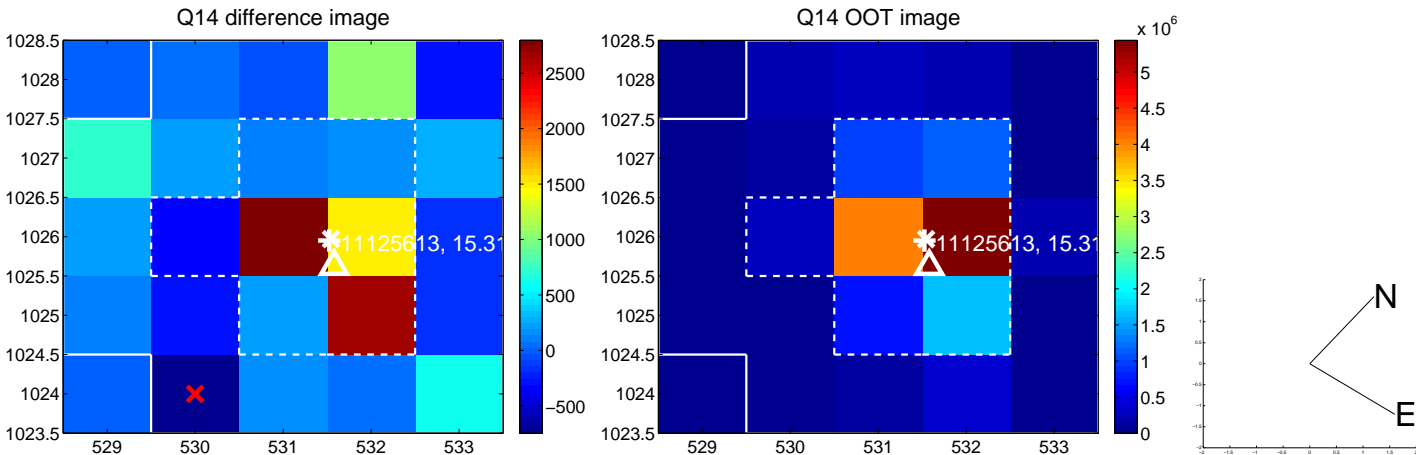
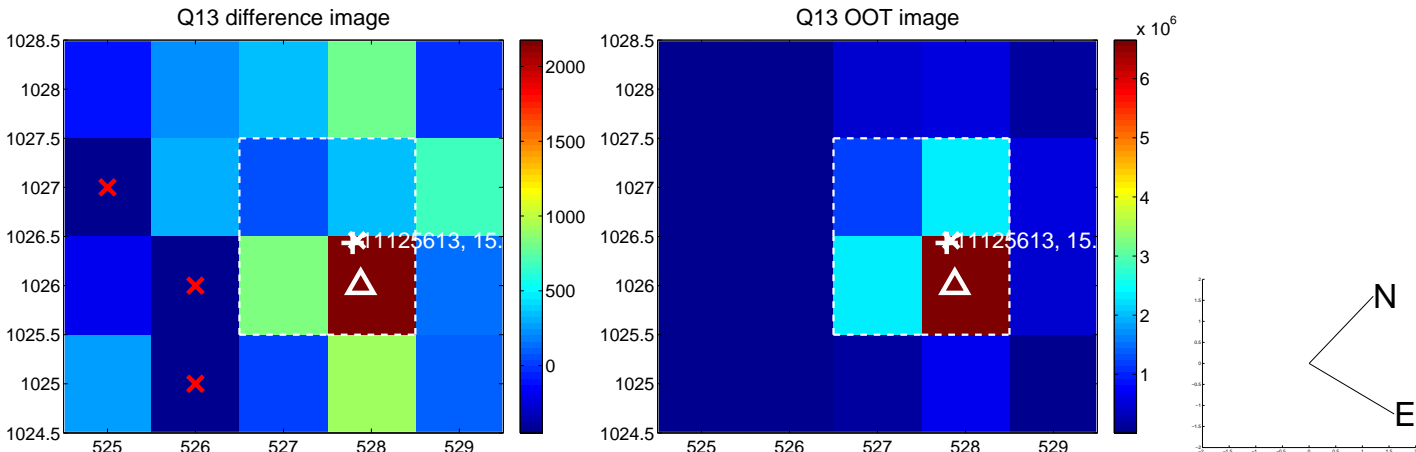
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



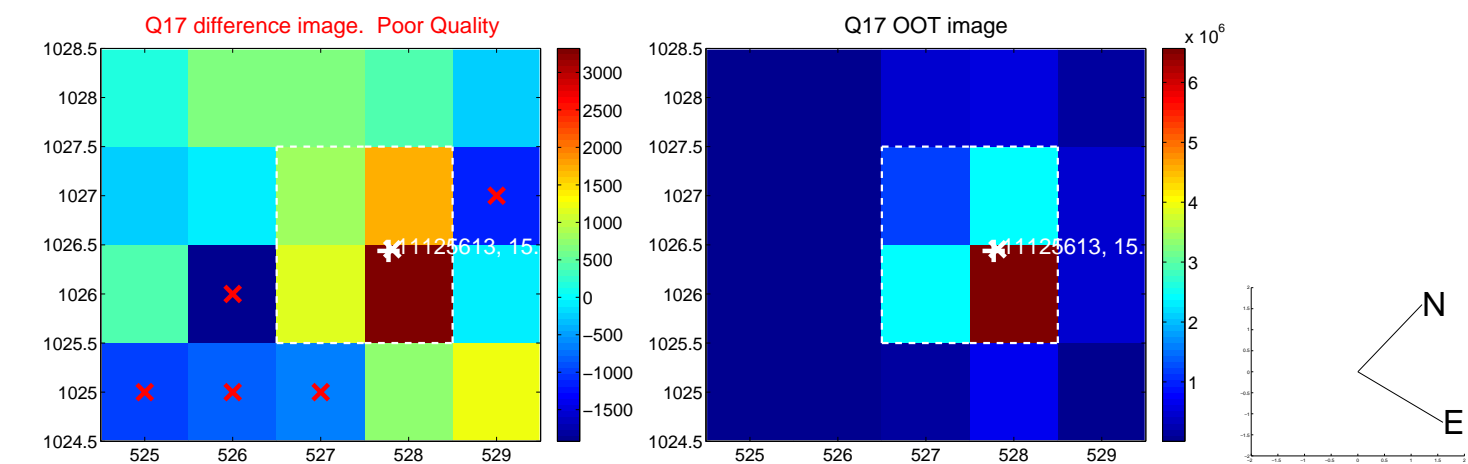
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



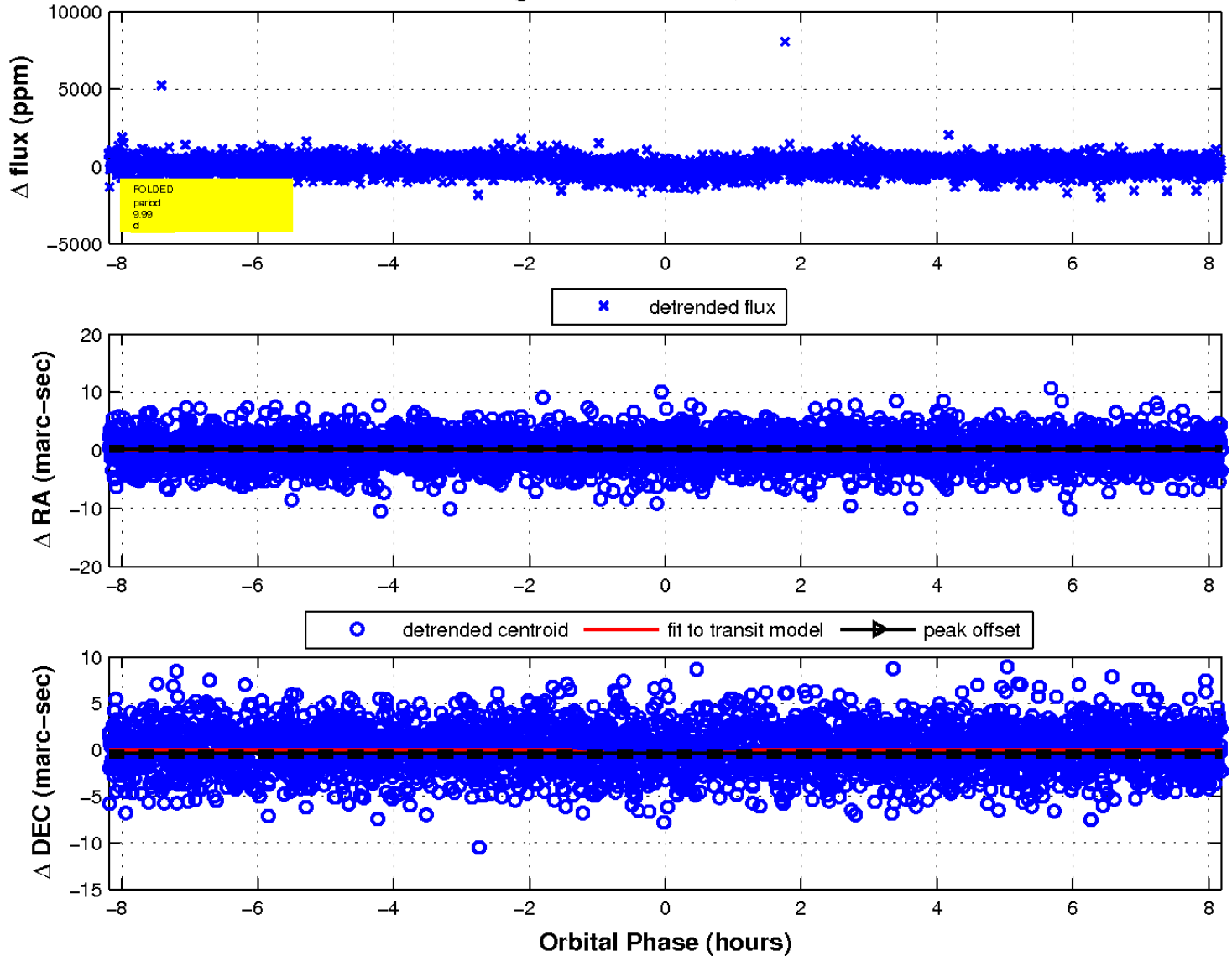
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

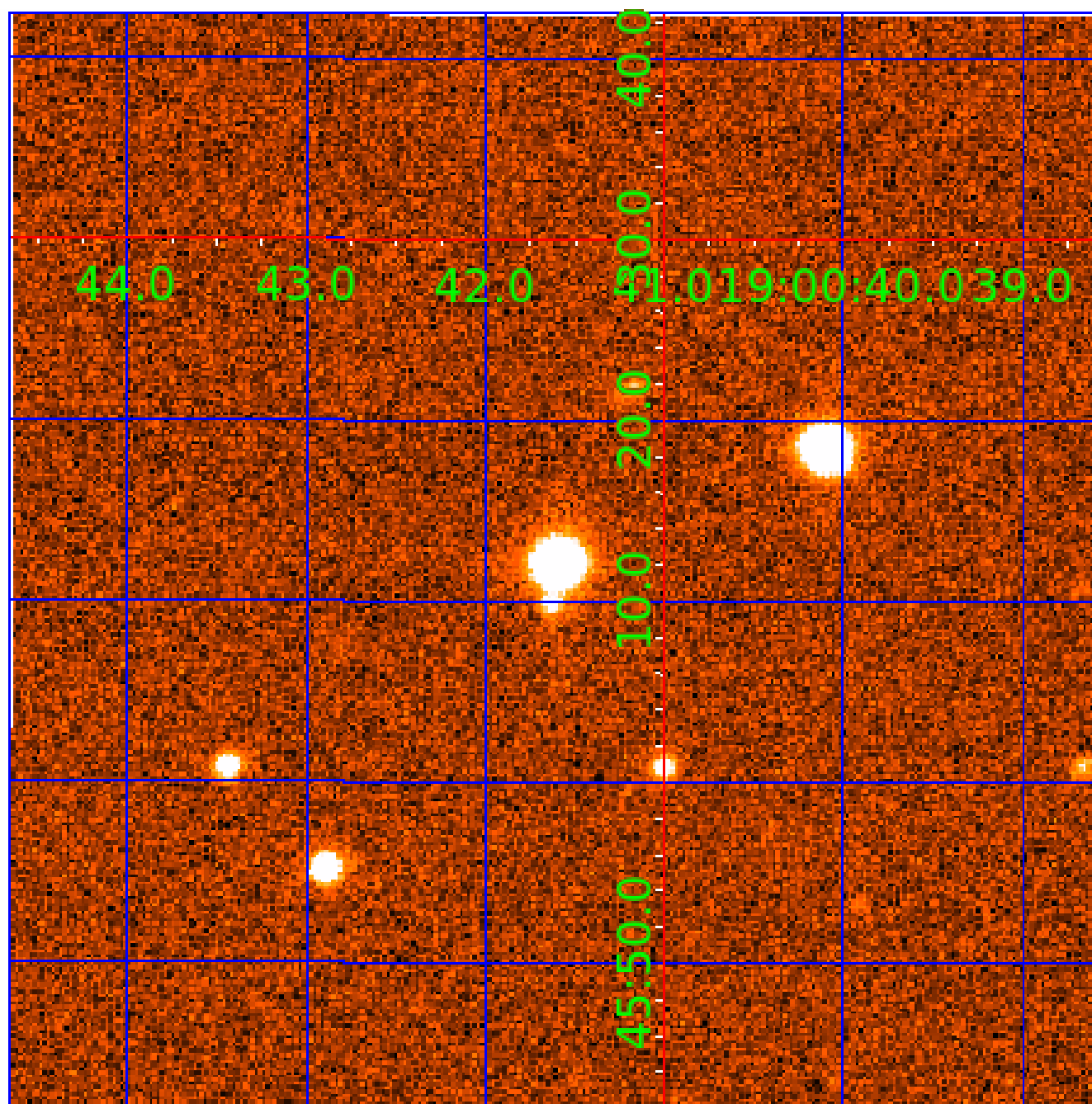


fluxWeightedCentroids, Planet 2 of 3



UKIRT Image

Declination



KIC 01125613

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})
011125613-01	OBS	2485.02	3.600833	134.037223	292.1	2.088	14.5	16.5	0.80	4838	1.69	174.70
011125613-02	OBS	2485.01	9.991069	134.398226	378.6	2.730	13.3	14.0	0.80	4838	1.81	44.81
011125613-03	OBS	2485.03	5.727228	133.957517	308.7	2.366	12.8	13.9	0.80	4838	1.72	94.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011125613-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011125613-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011125613-03	OBS	PC	0.99	0	0	0	0	NO_COMMENT

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.

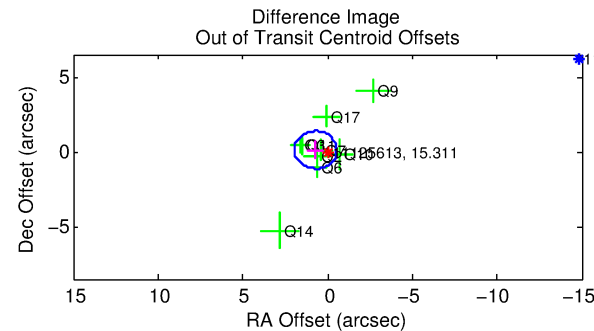
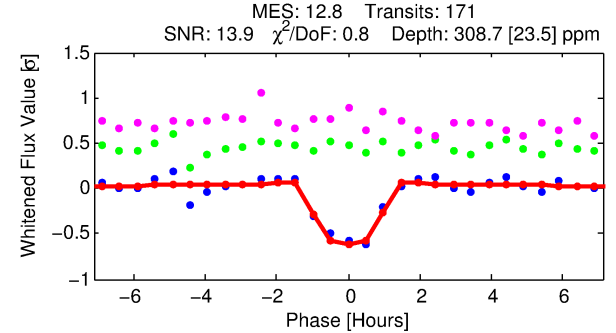
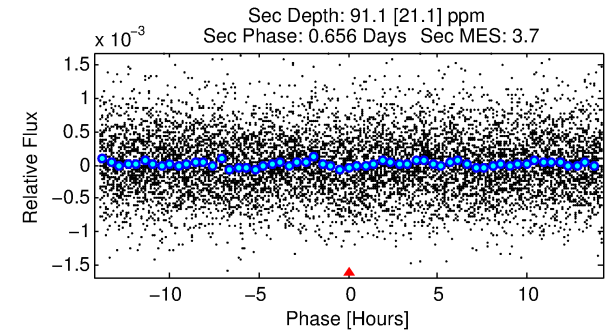
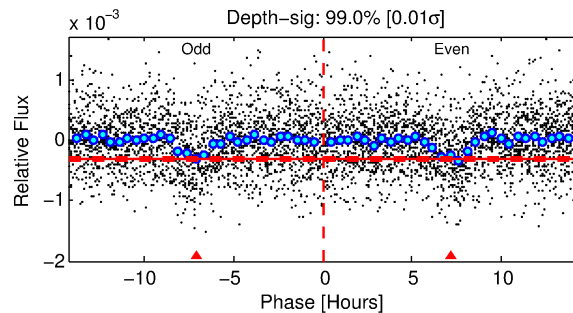
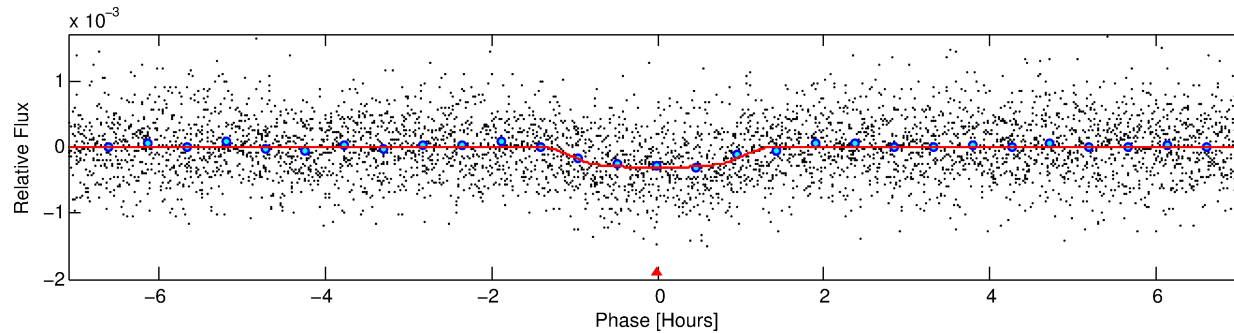
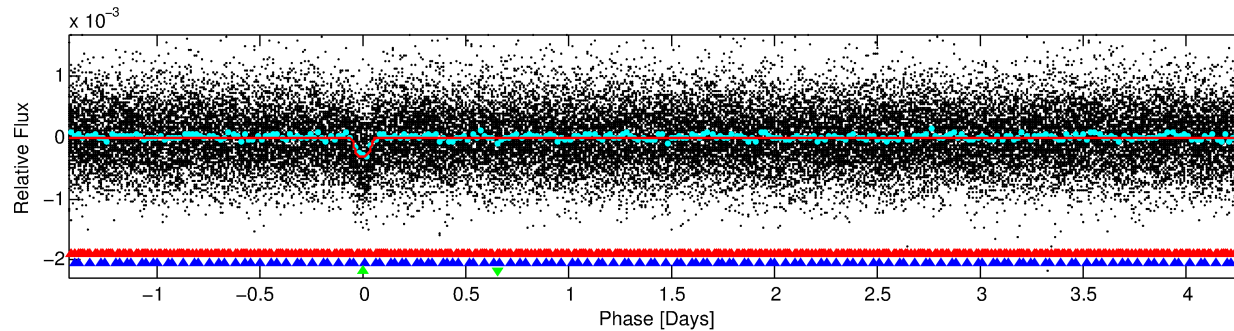
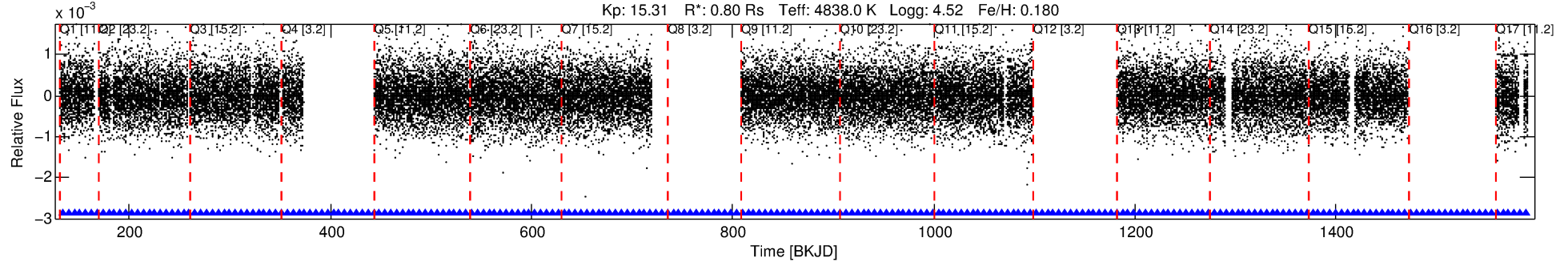
Ephemeris Match Information For 011125613-03

No Significant Match Found

DV One-Page Summary

KIC: 11125613 Candidate: 3 of 3 Period: 5.727 d
KOI: K02485.03 Corr: 0.952

Kp: 15.31 R*: 0.80 Rs Teff: 4838.0 K Logg: 4.52 Fe/H: 0.180



DV Fit Results:

Period = 5.72723 [0.00003] d
Epoch = 133.9575 [0.0032] BKJD
Rp/R* = 0.0198 [0.0096]
a/R* = 8.92 [16.26]
b = 0.90 [0.40]
Seff = 94.10 [11.70]
Teq = 794 [25] K
Rp = 1.72 [0.84] Re
a = 0.0575 [0.0038] AU
Ag = 56.13 [56.39] [0.98σ]
Teffp = 3361 [841] K [3.05σ]

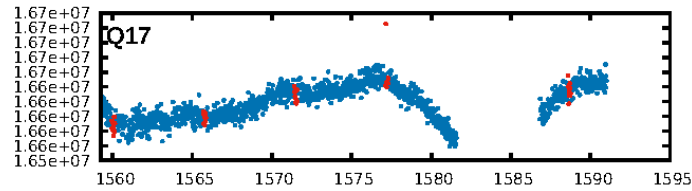
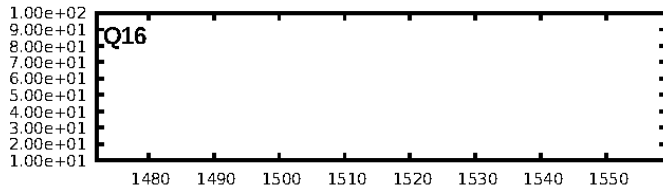
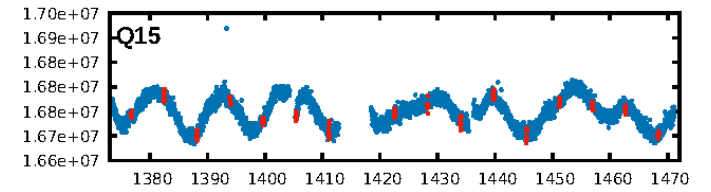
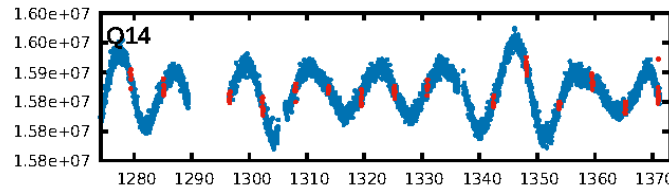
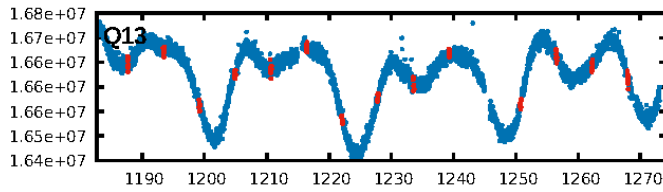
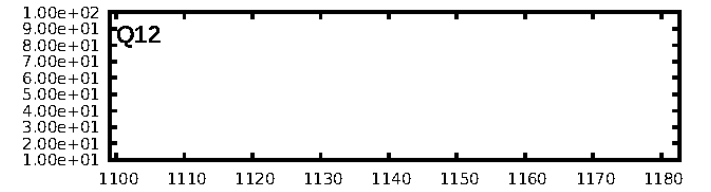
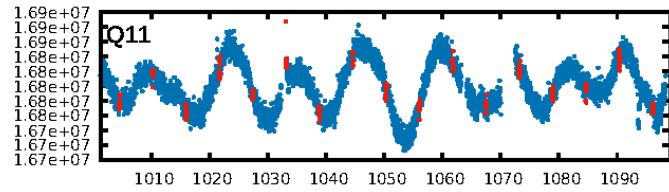
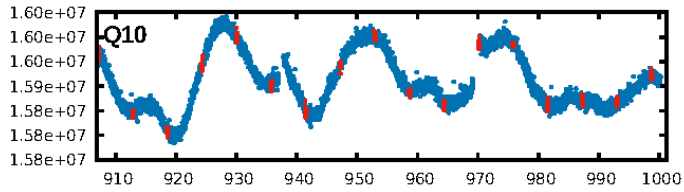
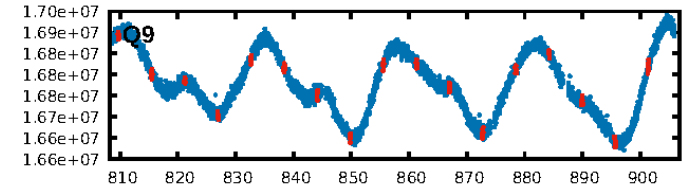
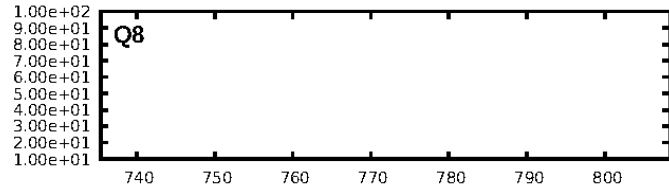
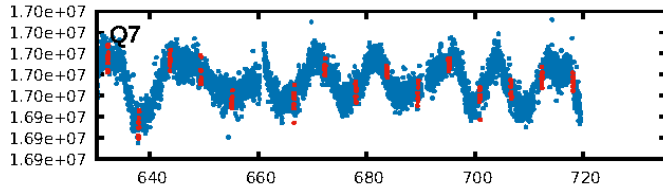
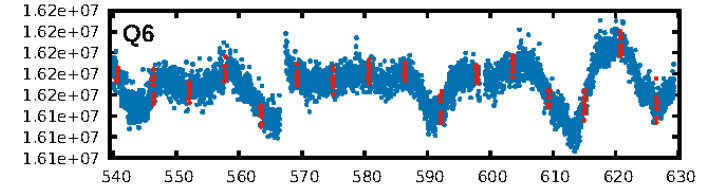
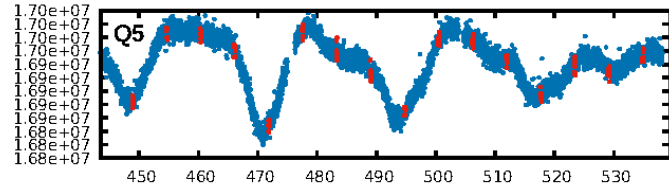
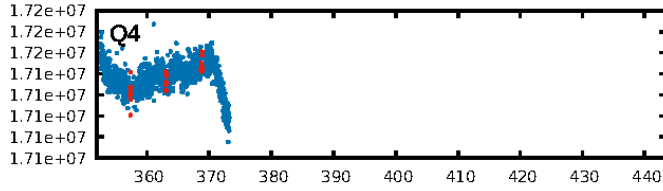
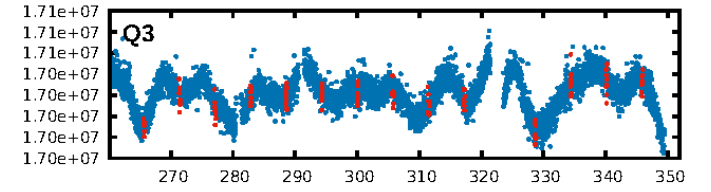
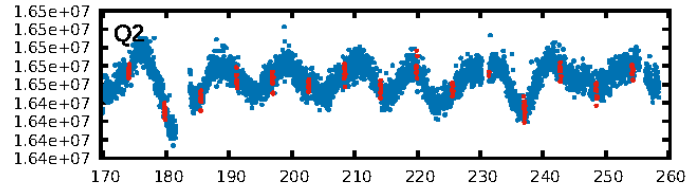
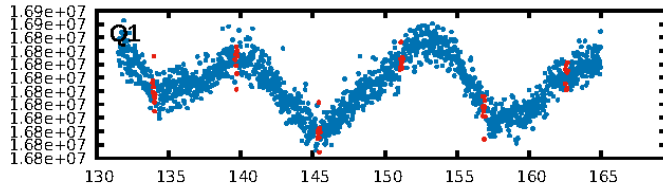
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [16.17σ]
LongPeriod-sig: 100.0% [28.33σ]
ModelChiSquare2-sig: 100.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.63e-37
RollingBand-fgt: 1.00 [160/160]
GhostDiagnostic-chr: 15.39
Centroid-sig: 3.7%
Centroid-so: 1.443 arcsec [1.61σ]
OotOffset-rm: 0.720 arcsec [1.72σ]
KicOffset-rm: 0.674 arcsec [1.24σ]
OotOffset-st: 4/3/0/2 [9]
KicOffset-st: 4/3/0/2 [9]
DiffImageQuality-fgm: 0.78 [7/9]
DiffImageOverlap-fno: 1.00 [14/14]

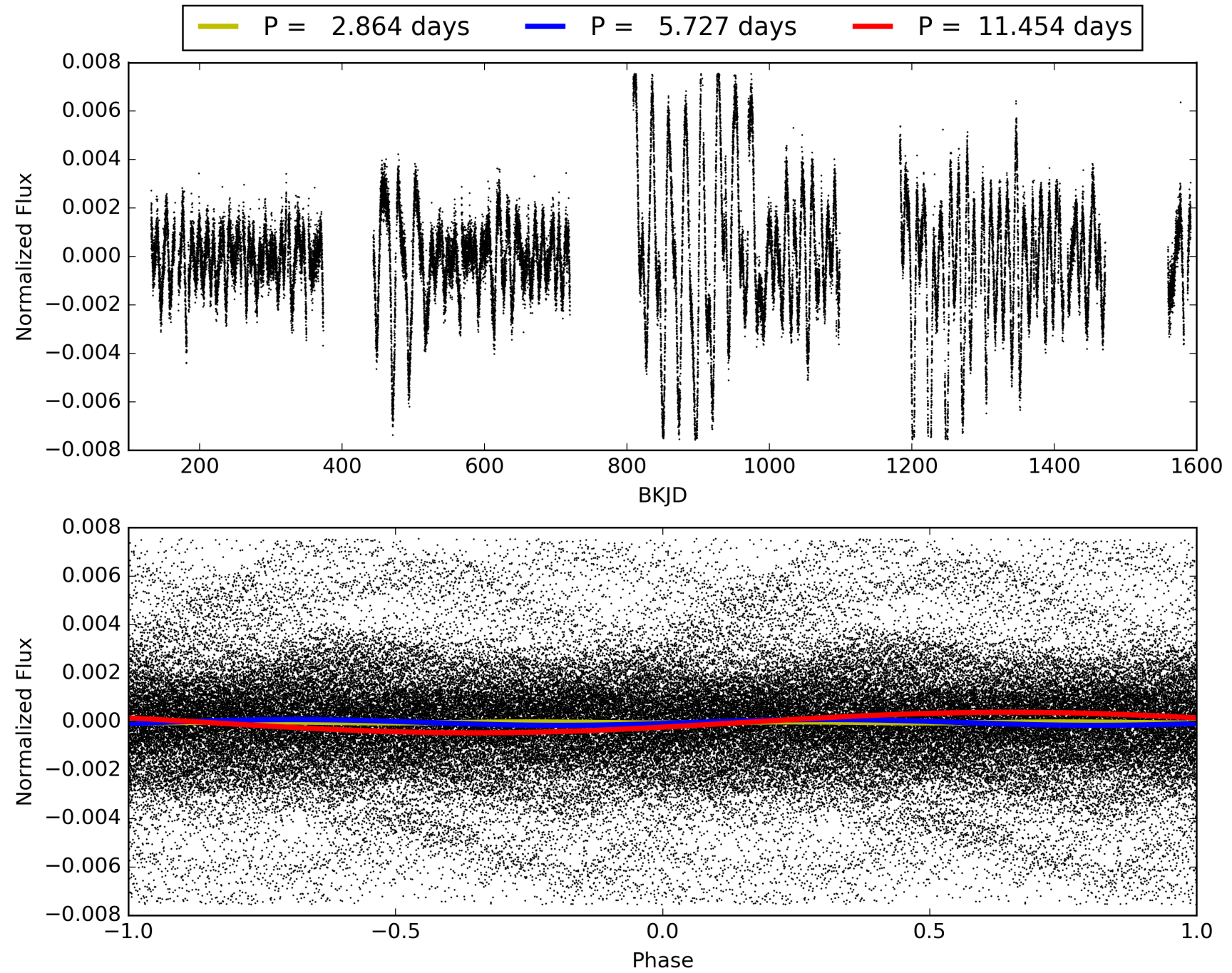
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 05:11:15 Z

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

TCE 011125613-03, PDC Light Curves

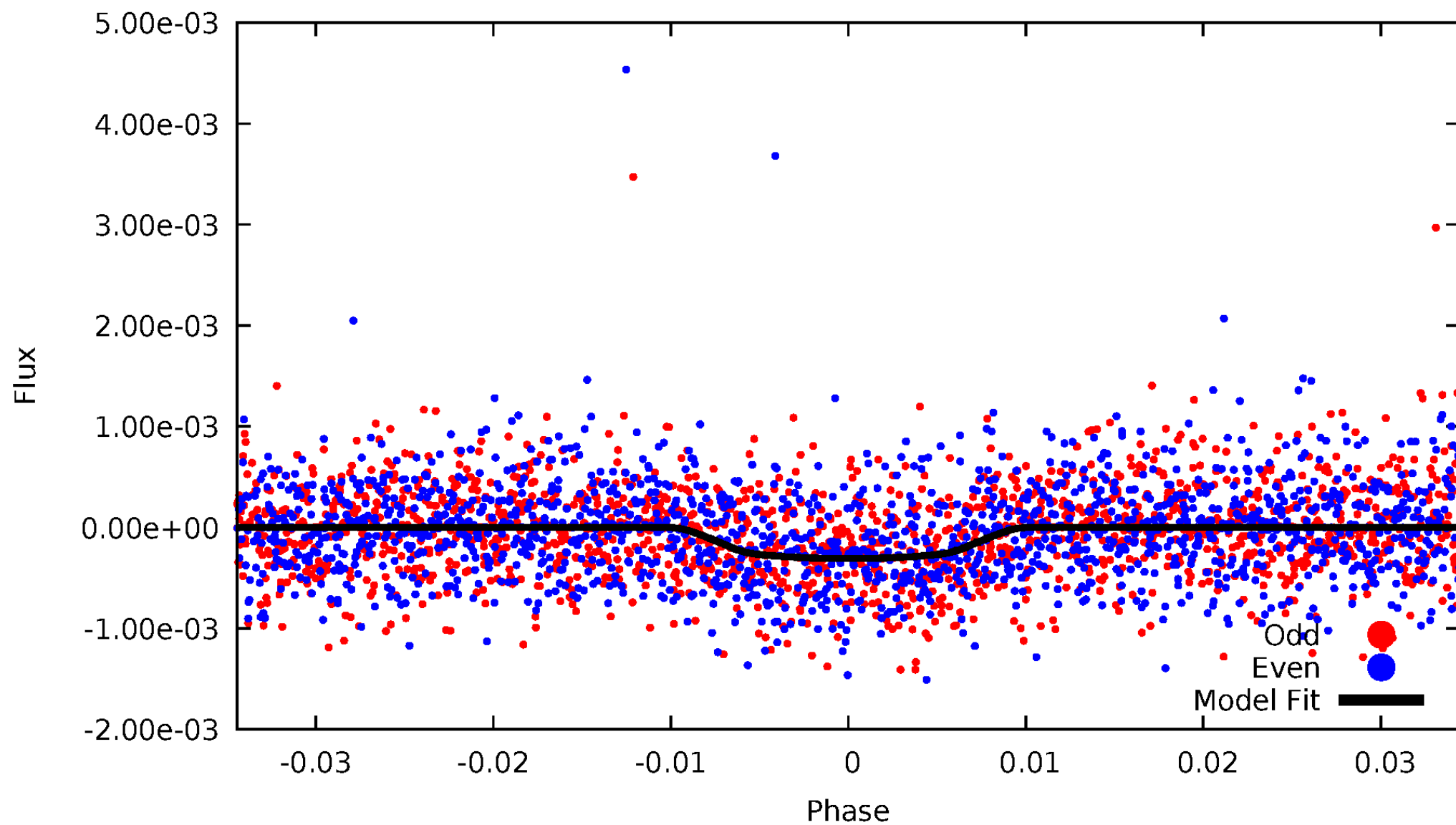


TCE 011125613-03



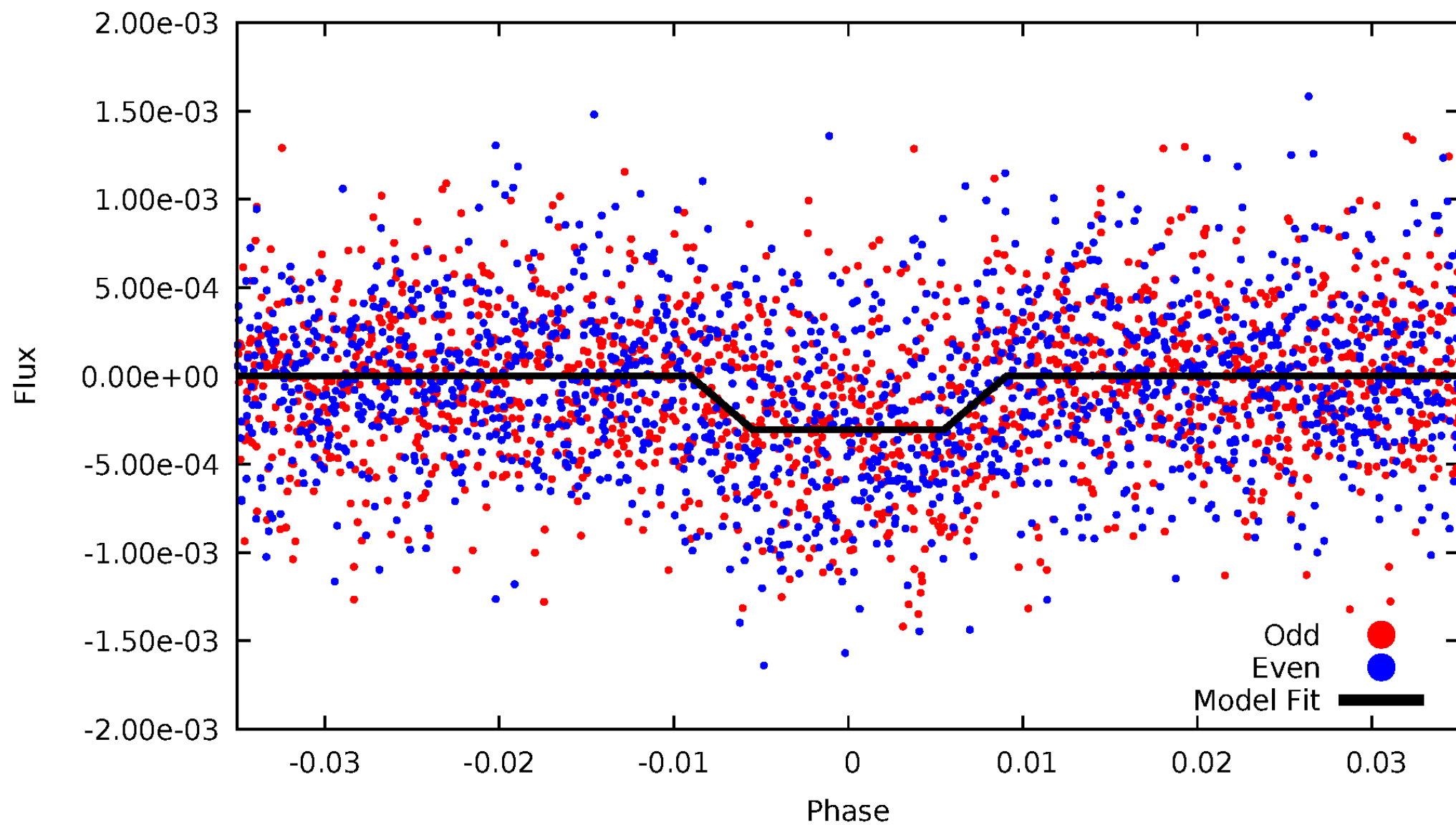
DV Odd/Even

TCE 011125613-03

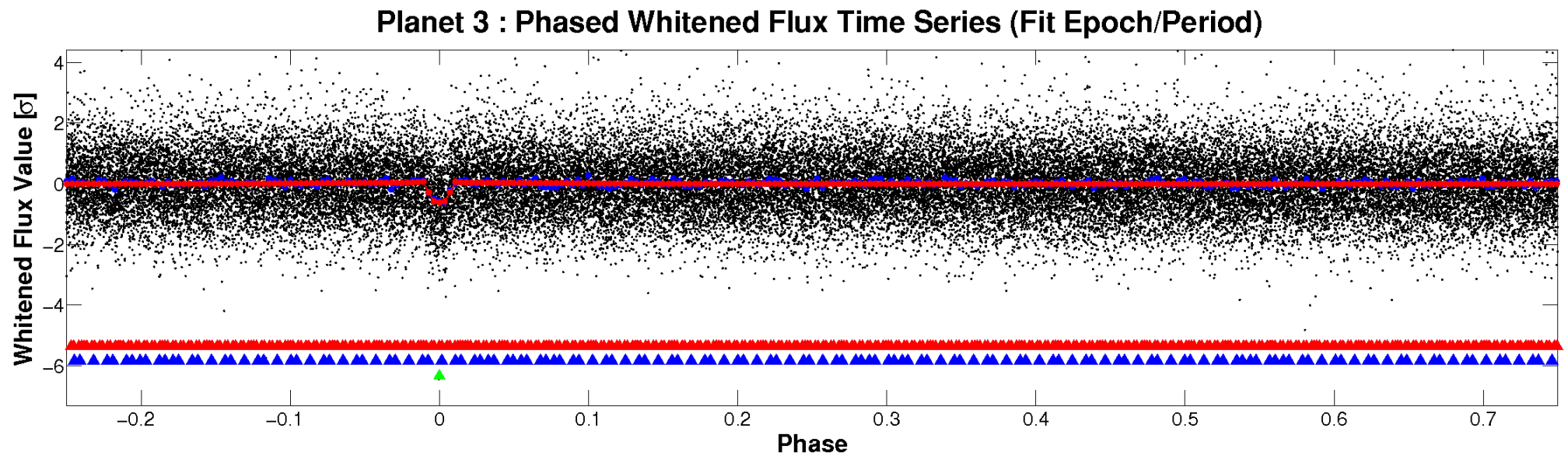
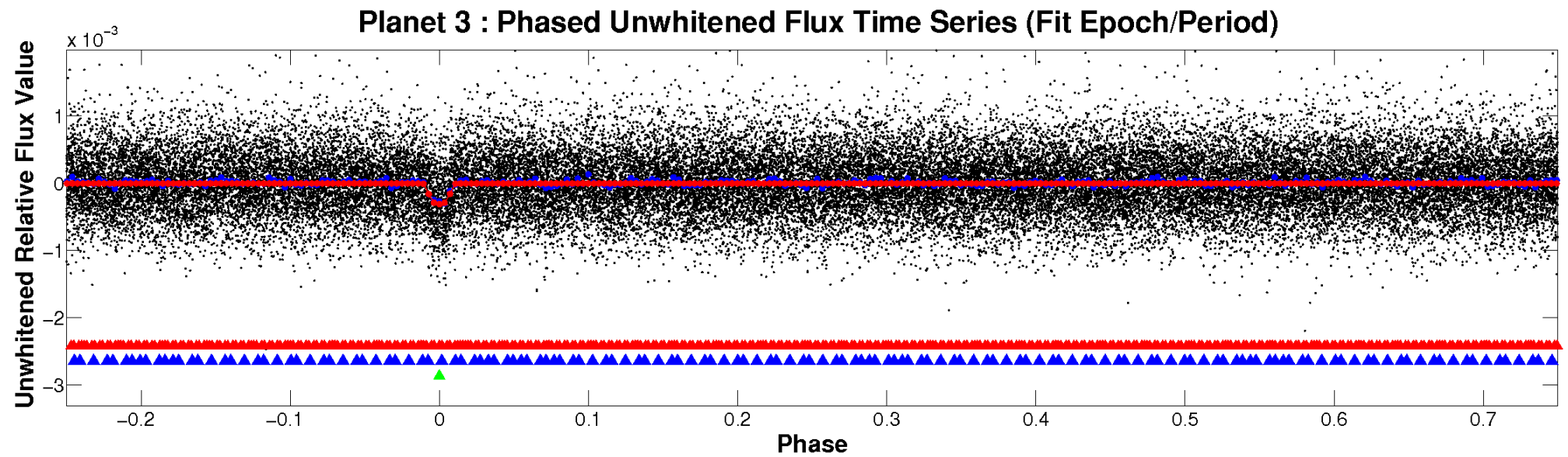


ALT Odd/Even

TCE 011125613-03

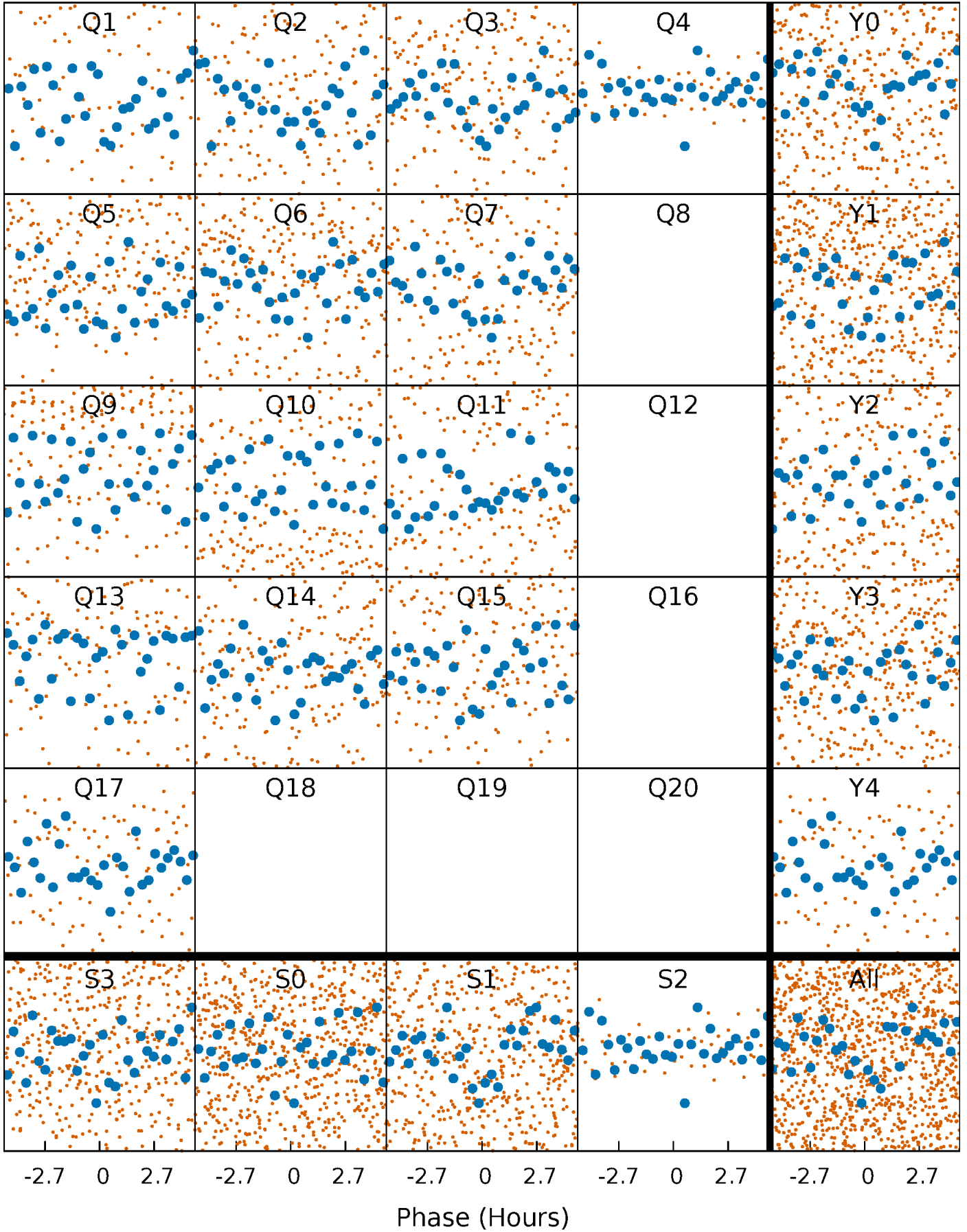


Non-Whitened Vs. Whitened Light Curve



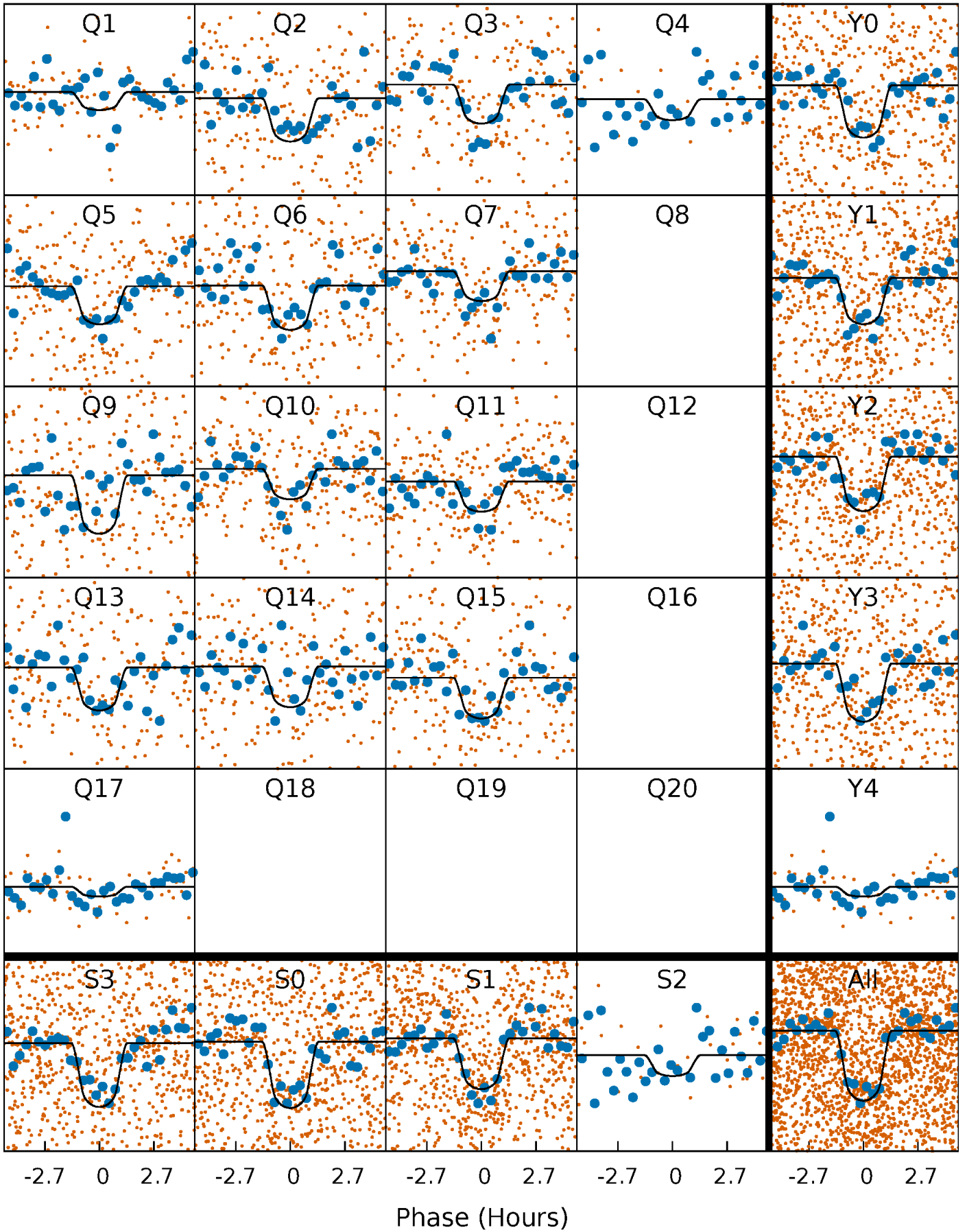
PDC Quarter-Phased Transit Curves

TCE 011125613-03 P= 5.727228 Days $T_0=133.957517$ (BKJD)



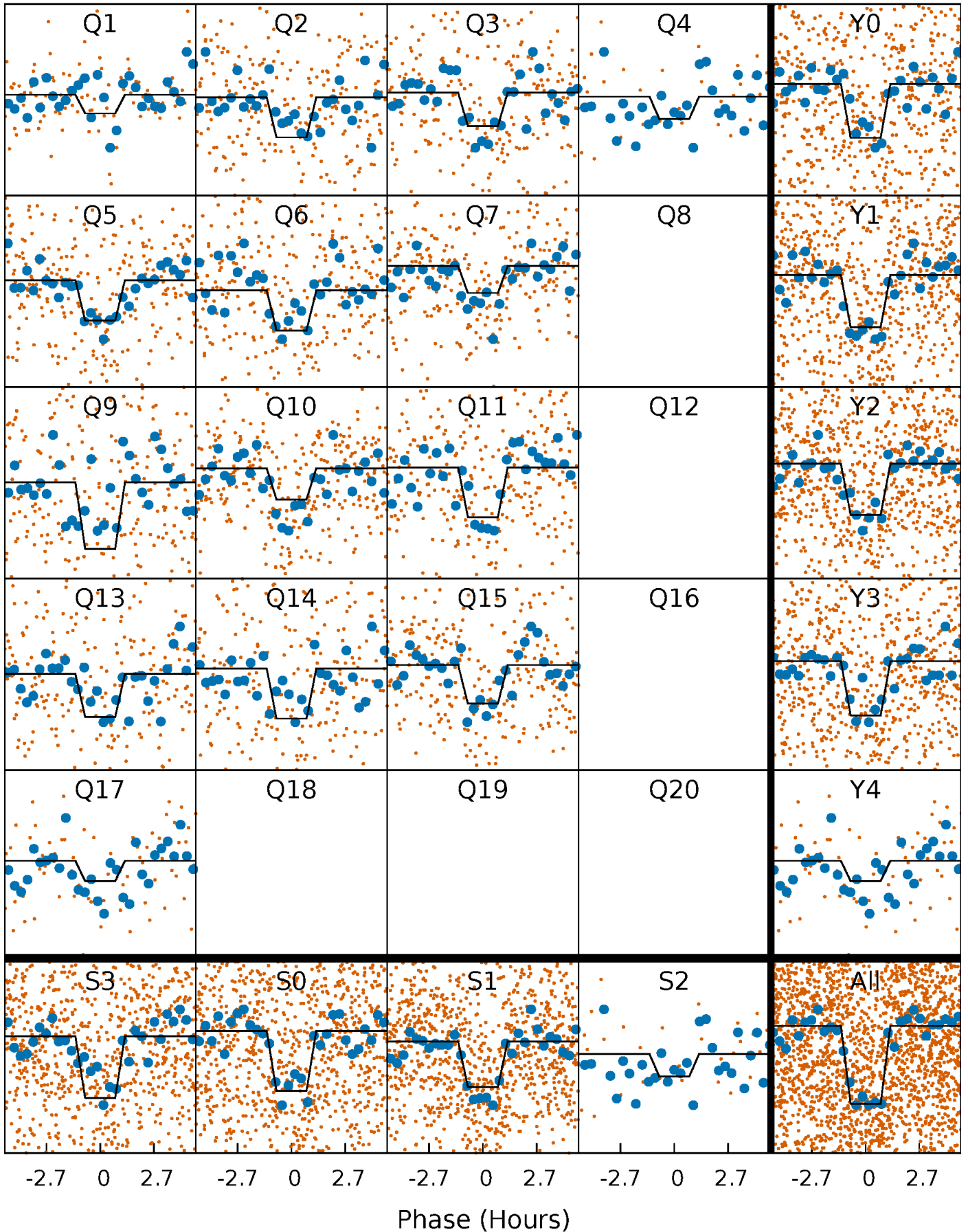
DV Quarter-Phased Transit Curves

TCE 011125613-03 P= 5.727228 Days $T_0=133.957517$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

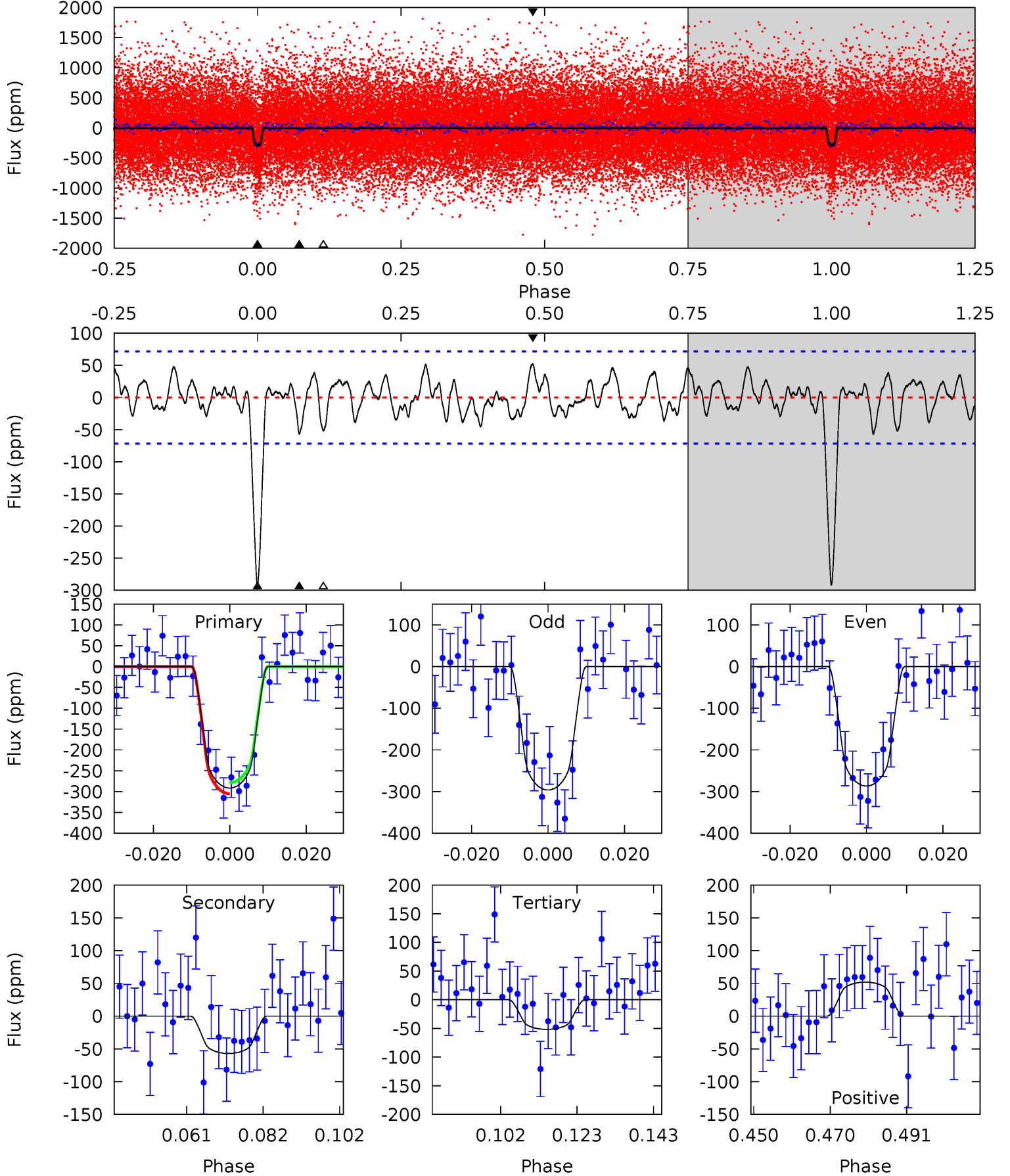
TCE 011125613-03 P= 5.727194 Days $T_0=133.959583$ (BKJD)



DV Model-Shift Uniqueness Test

011125613-03, P = 5.727228 Days, E = 128.230289 Days

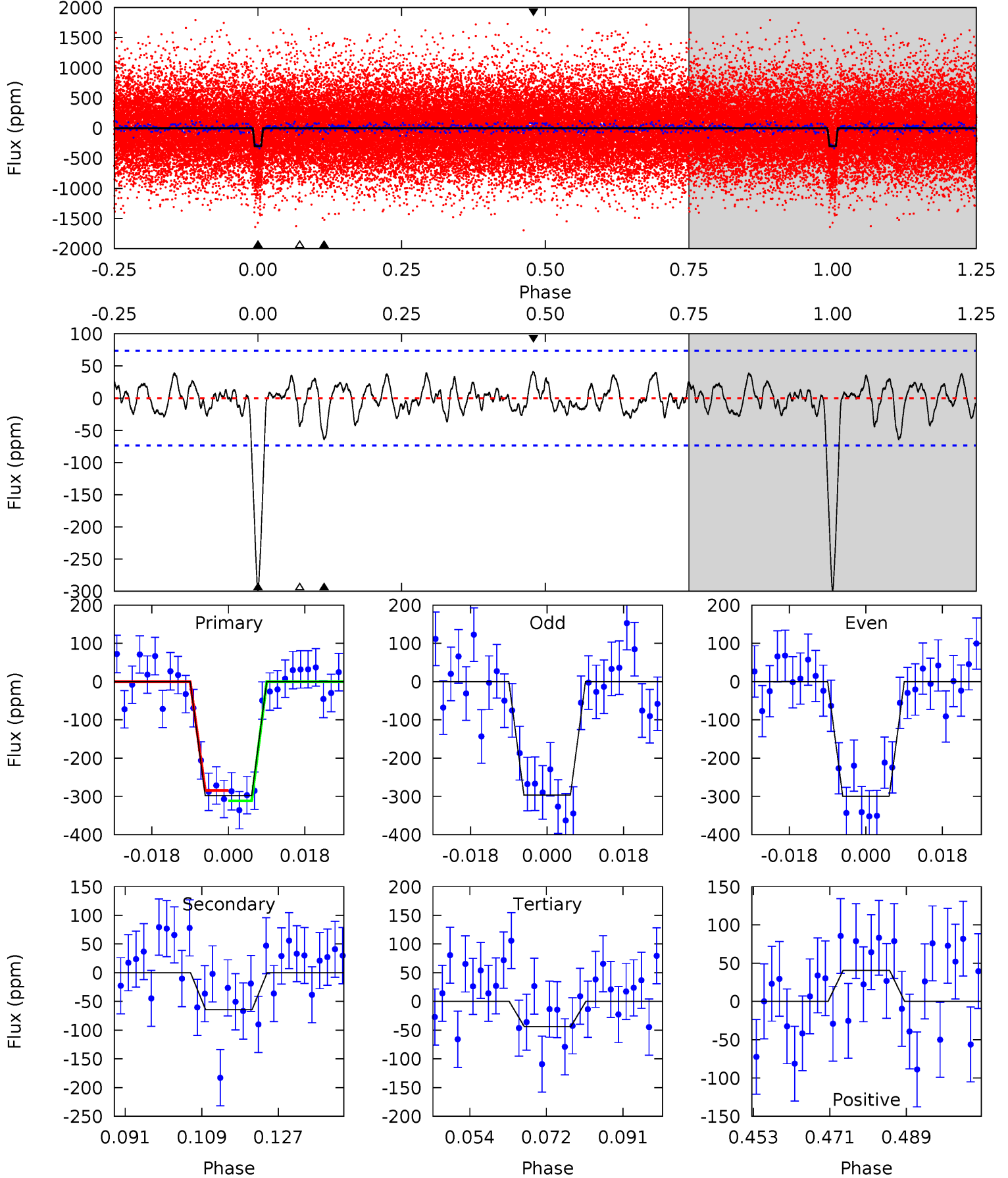
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.9	3.89	3.53	3.54	4.89	2.32	1.47	16.4	16.4	0.36	0.35	0.33	0.96	0.15	0.92



Alt Model-Shift Uniqueness Test

011125613-03, P = 5.727194 Days, E = 128.232389 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.9	4.30	2.94	2.72	4.91	2.36	1.15	17.0	17.2	1.37	1.58	0.09	0.97	0.12	0.91



Stellar Parameters For KIC 011125613

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4838^{+77}_{-77}	$4.524^{+0.063}_{-0.018}$	$0.180^{+0.150}_{-0.150}$	$0.796^{+0.027}_{-0.054}$	$0.771^{+0.047}_{-0.027}$	$2.156^{+0.498}_{-0.172}$
	+2%/-2%	+1%/-0%	+83%/-83%	+3%/-7%	+6%/-4%	+23%/-8%
Source	SPE90	SPE90	SPE90	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 011125613-03 / KOI 2485.03

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-57 ± 15	$1.75^{+0.81}_{-0.81}$	1103^{+21}_{-23}	3388^{+819}_{-381}	34^{+82}_{-19}
Alt.	-64 ± 15	$1.52^{+0.88}_{-0.74}$	1103^{+23}_{-27}	3595^{+960}_{-489}	50^{+140}_{-30}

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

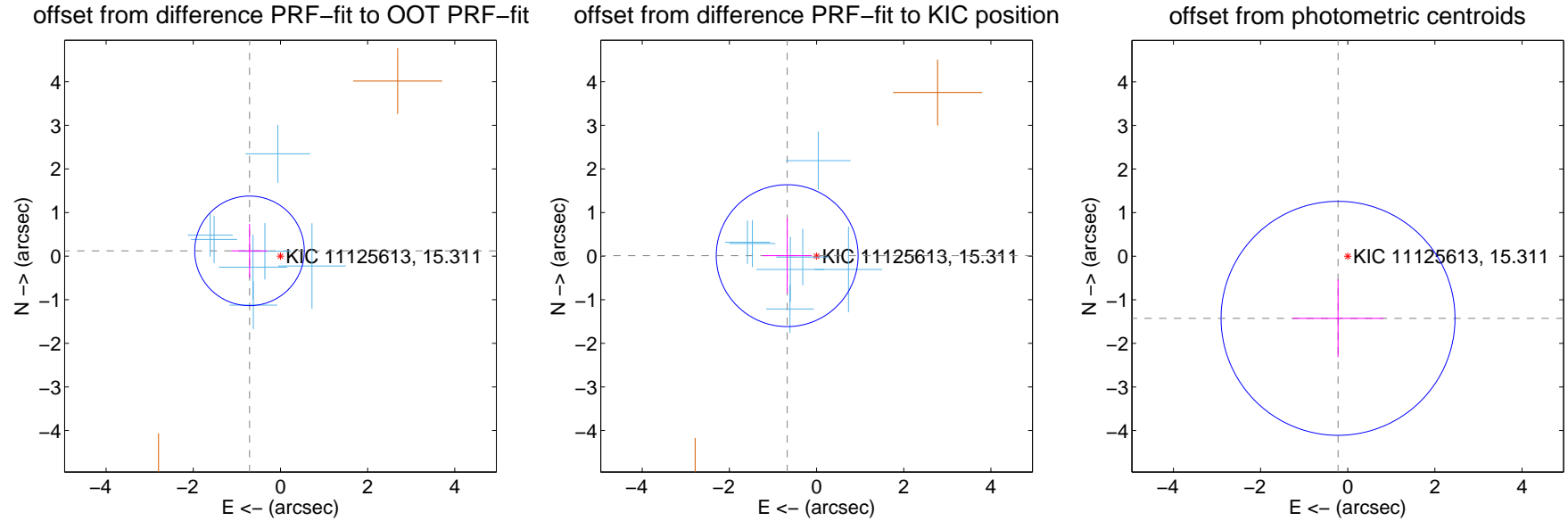
DV Centroid Data

Supplemental centroid analysis for 011125613-03. Kepler magnitude: 15.31. Transit SNR 13.90

There are 7 quarters with good PRF difference image offsets

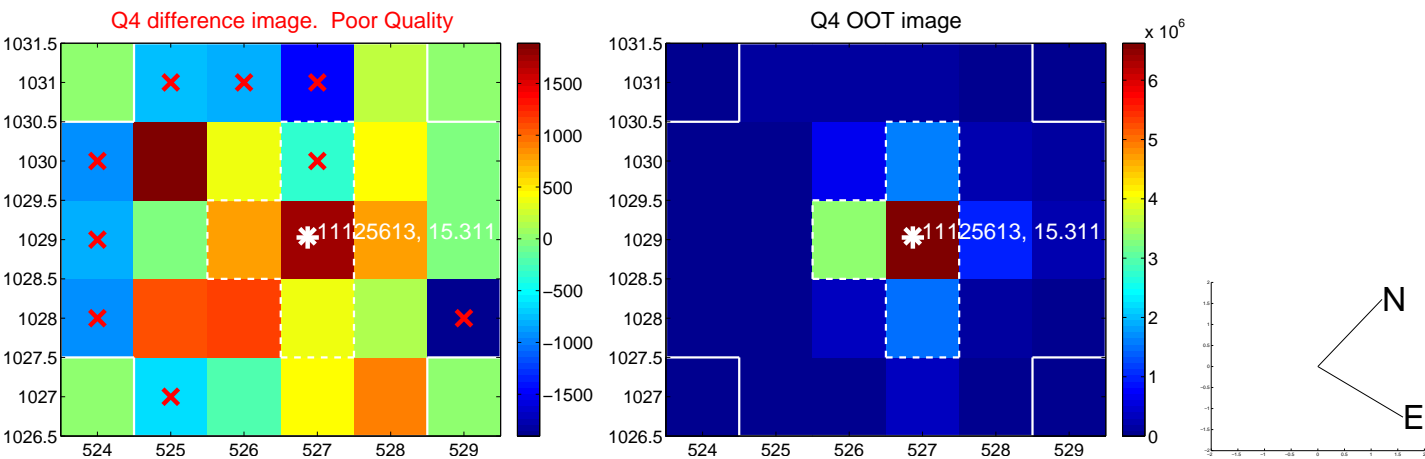
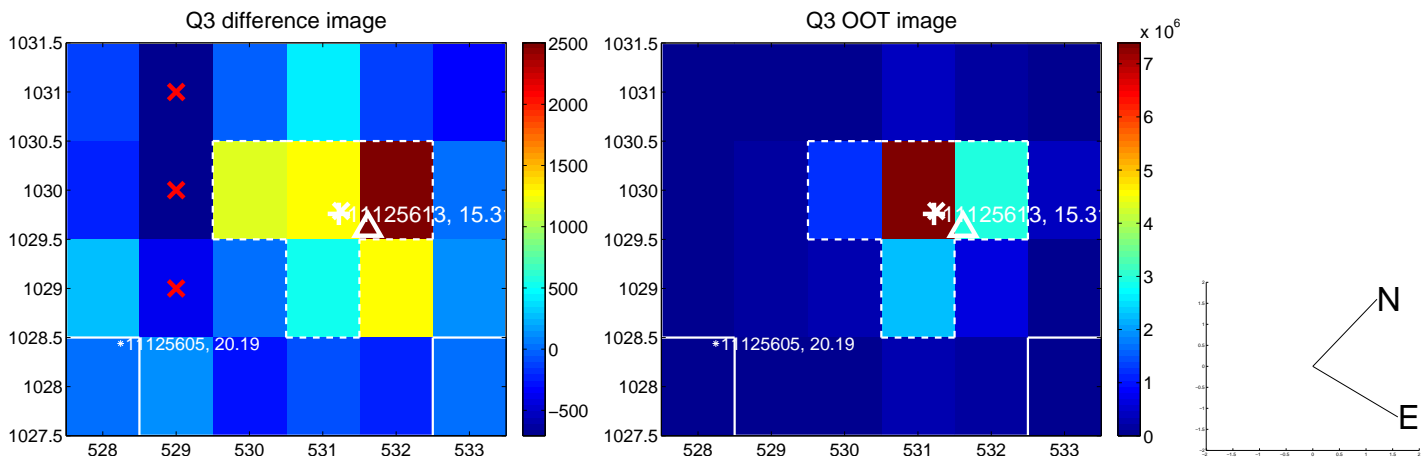
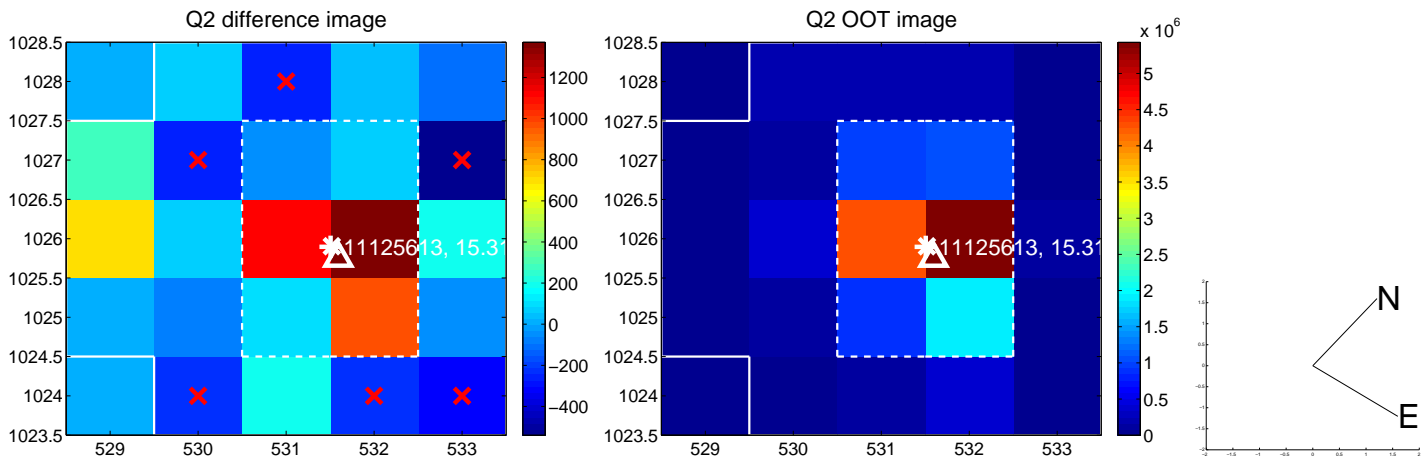
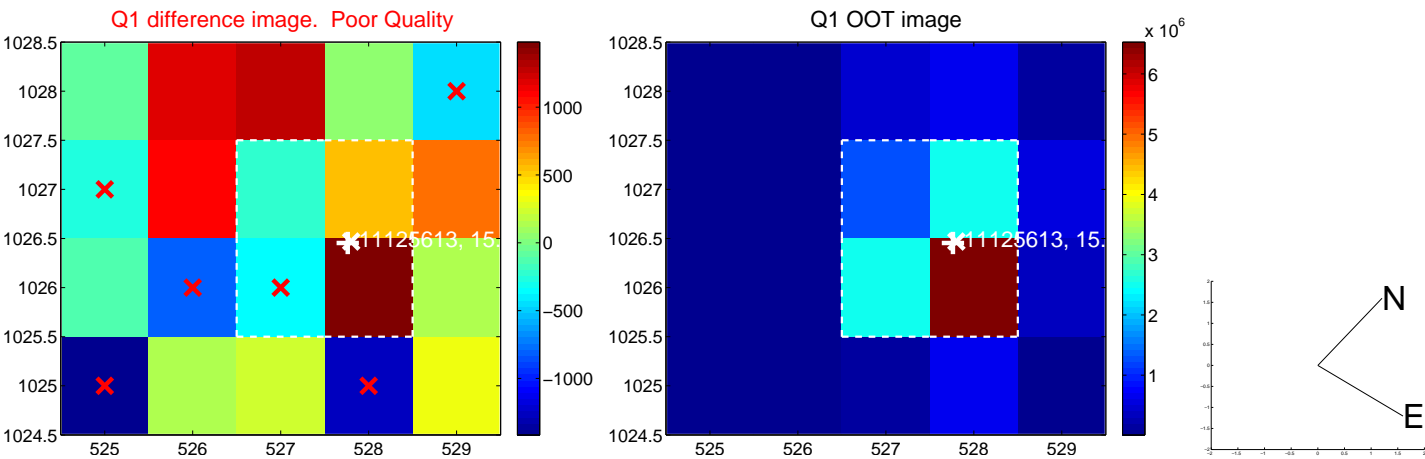
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.720 ± 0.419	1.72	0.710 ± 0.412	0.121 ± 0.620
PRF-fit source offset from KIC position	0.674 ± 0.542	1.24	0.674 ± 0.554	0.011 ± 0.862
photometric centroid source offset	1.44 ± 0.89	1.61	0.22 ± 1.04	-1.43 ± 0.89

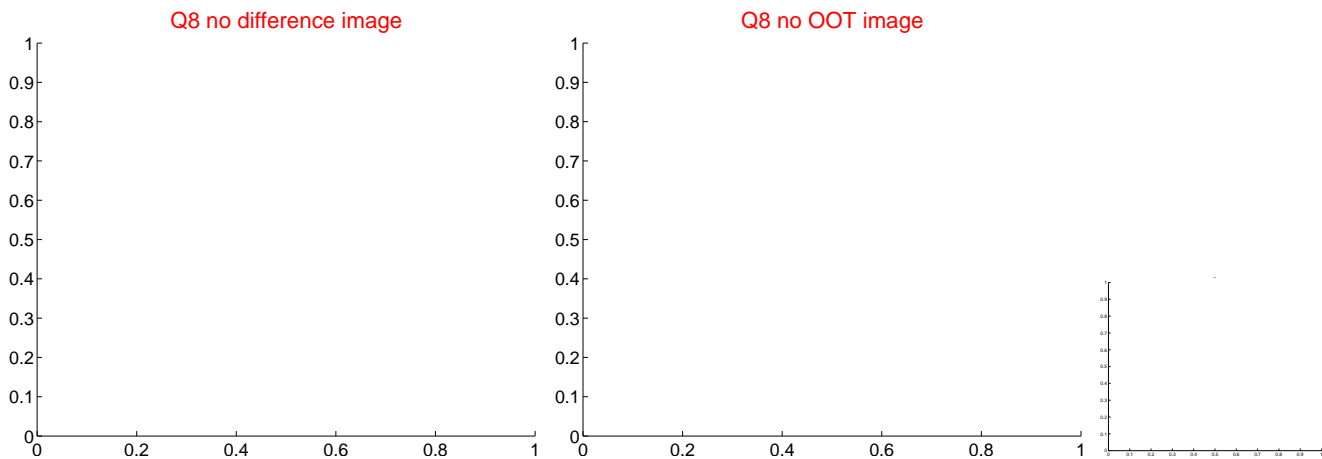
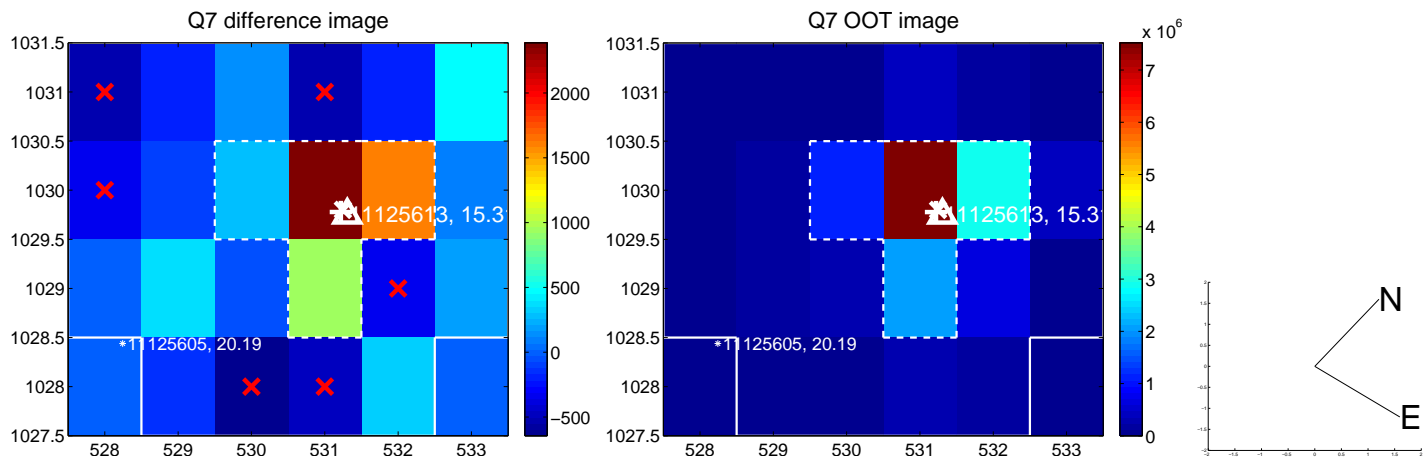
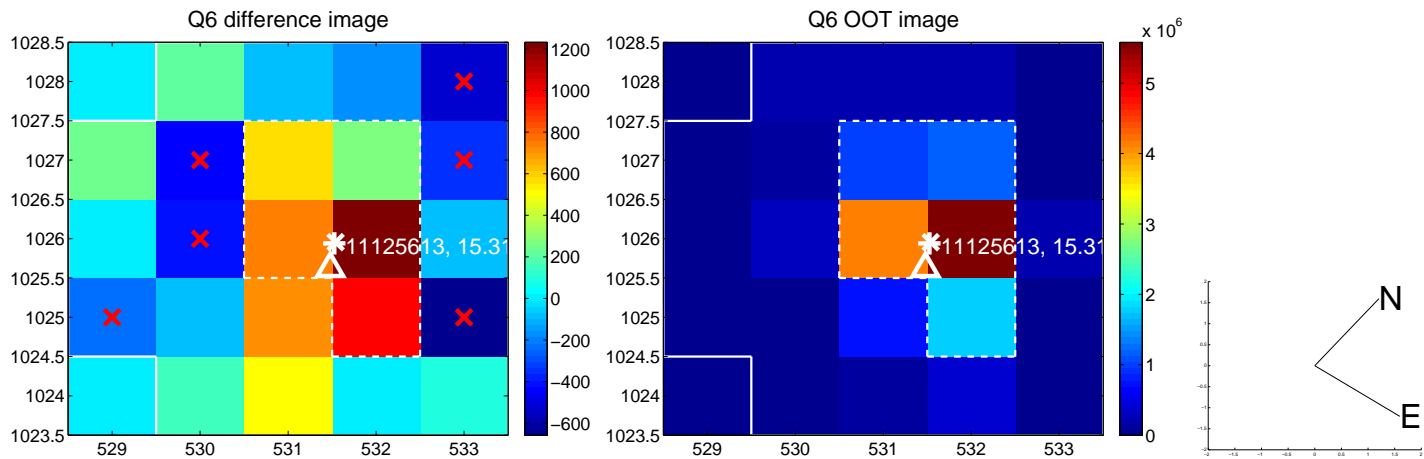
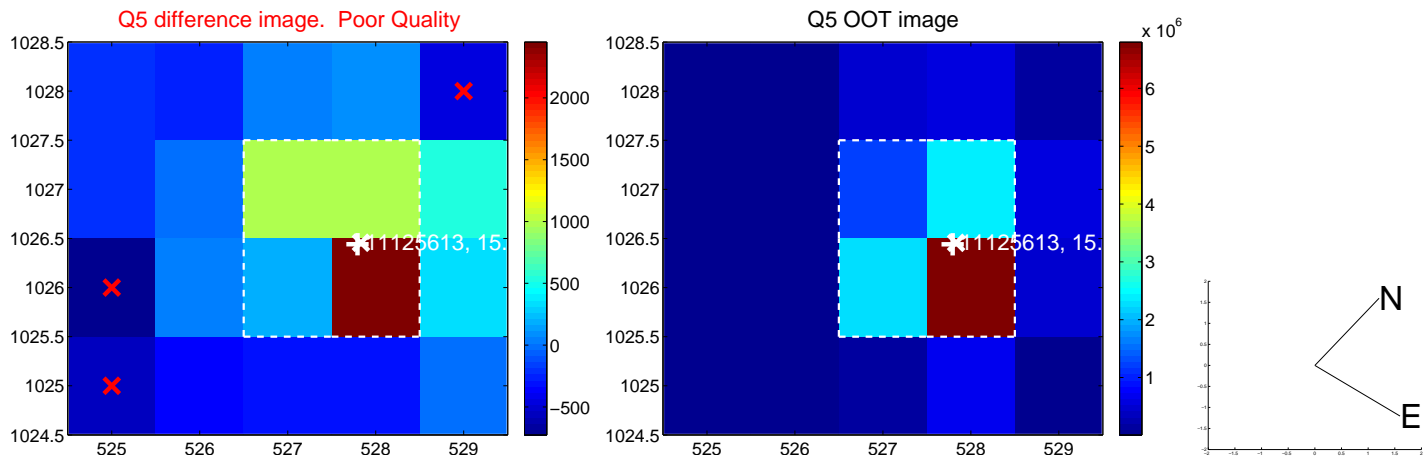


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

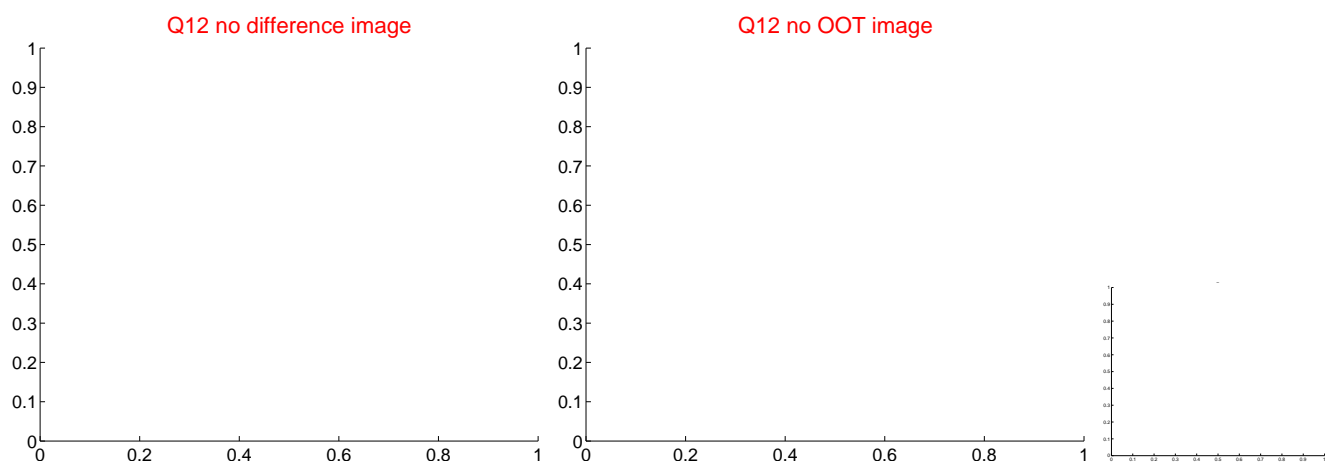
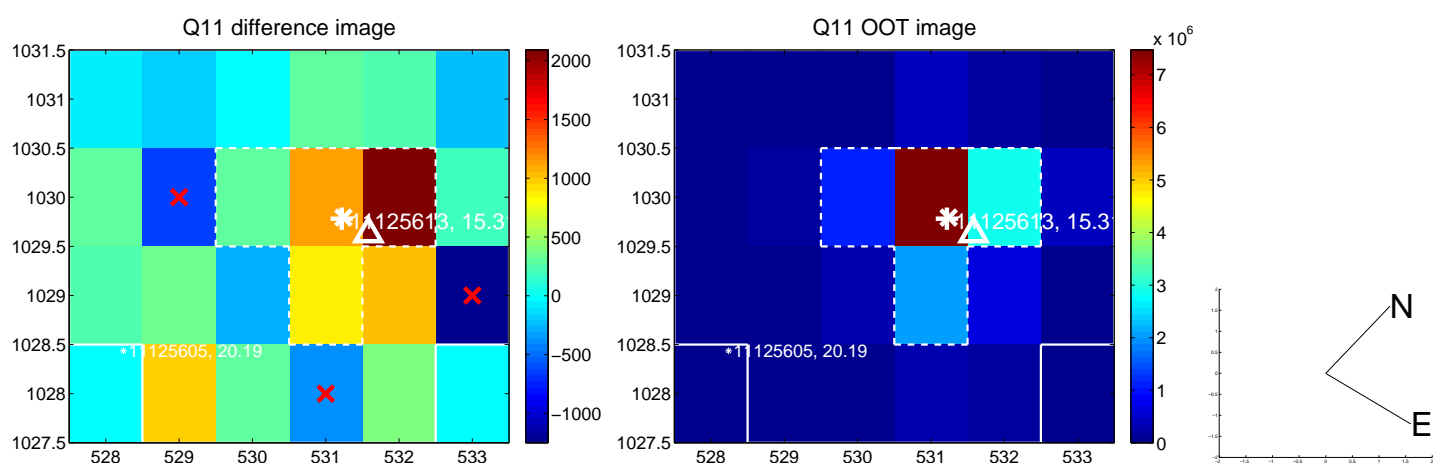
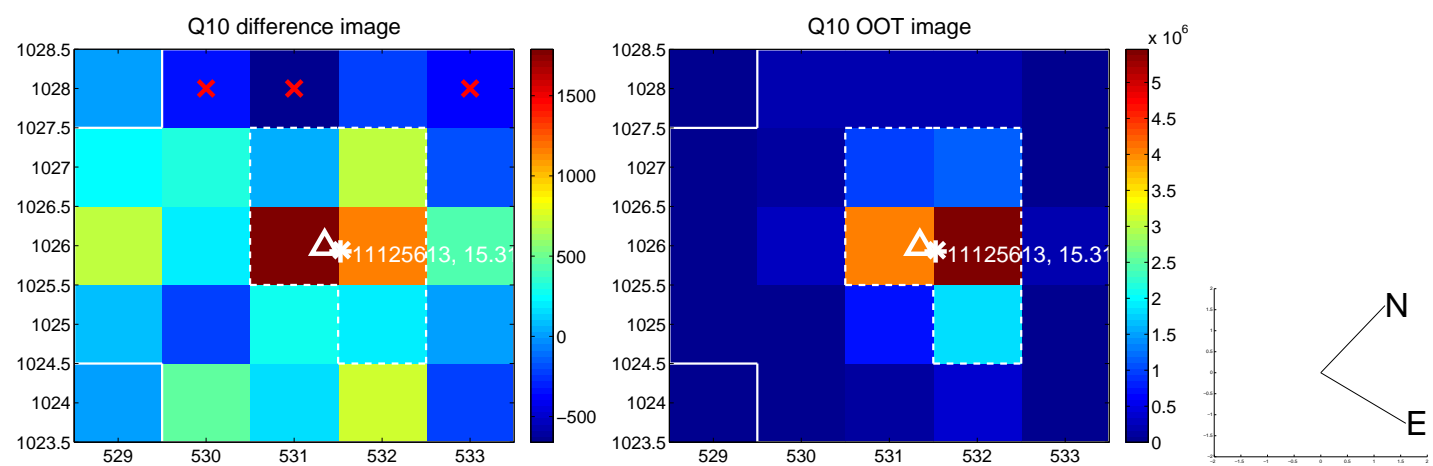
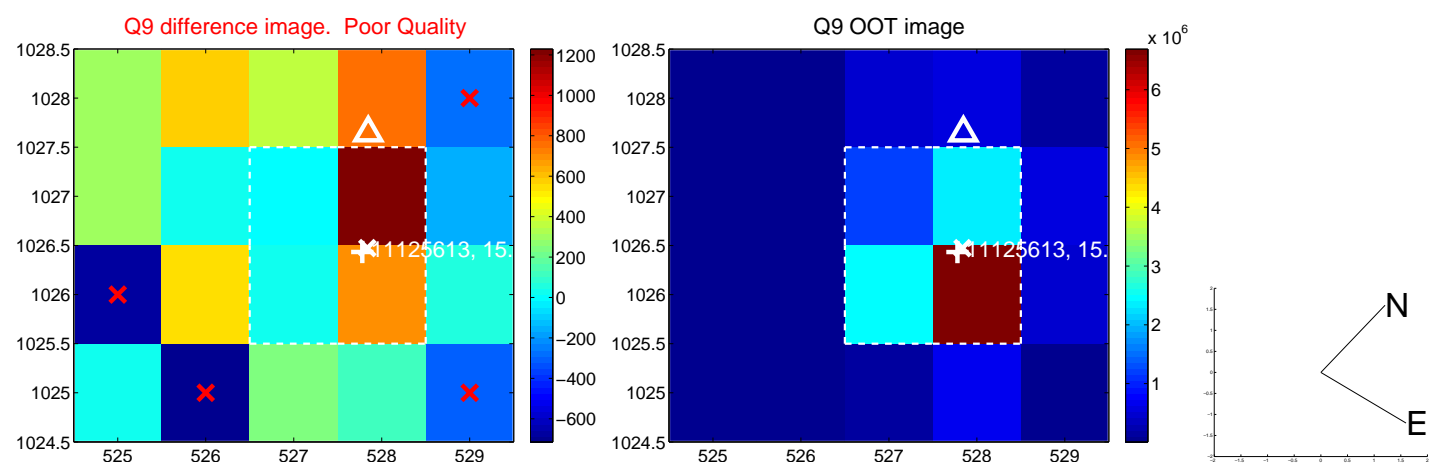
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



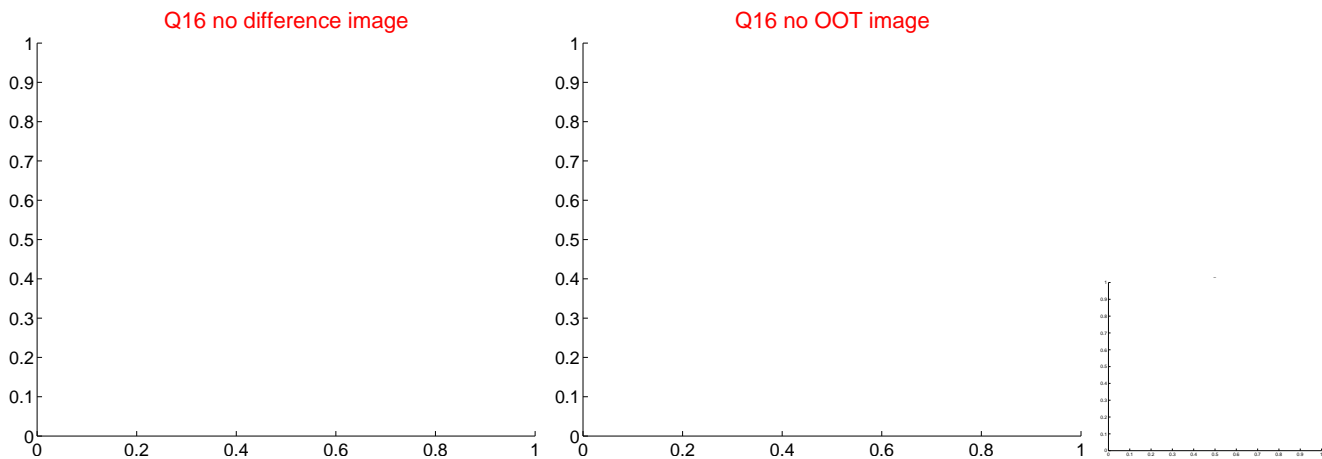
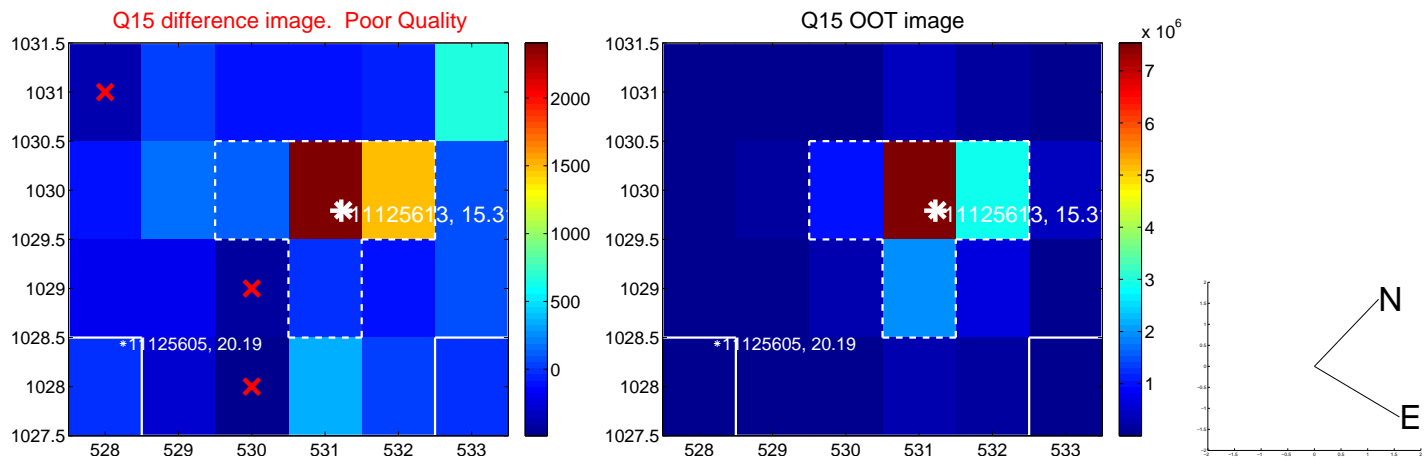
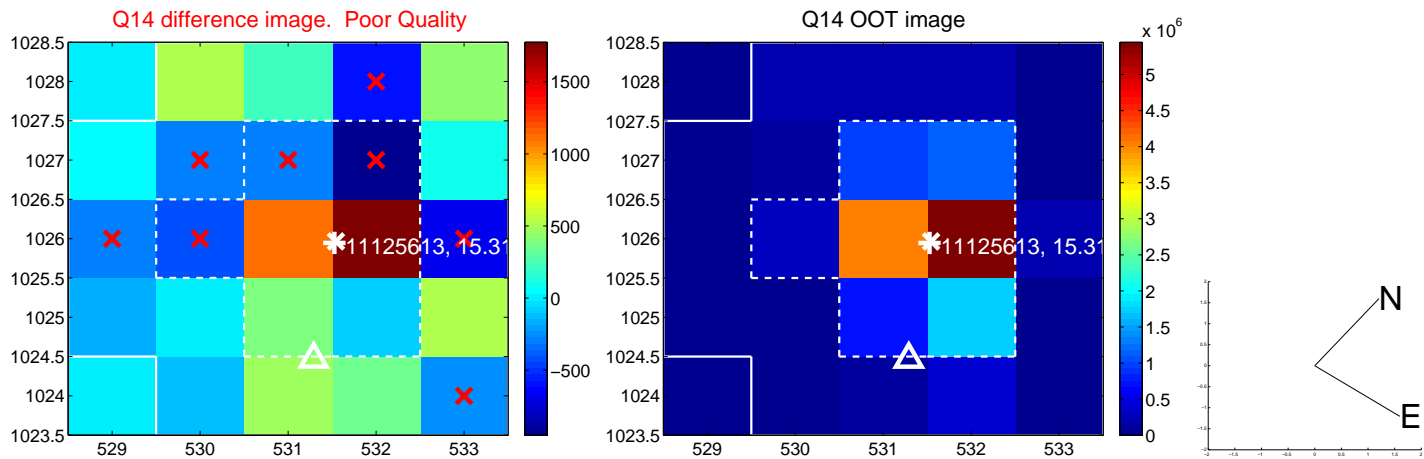
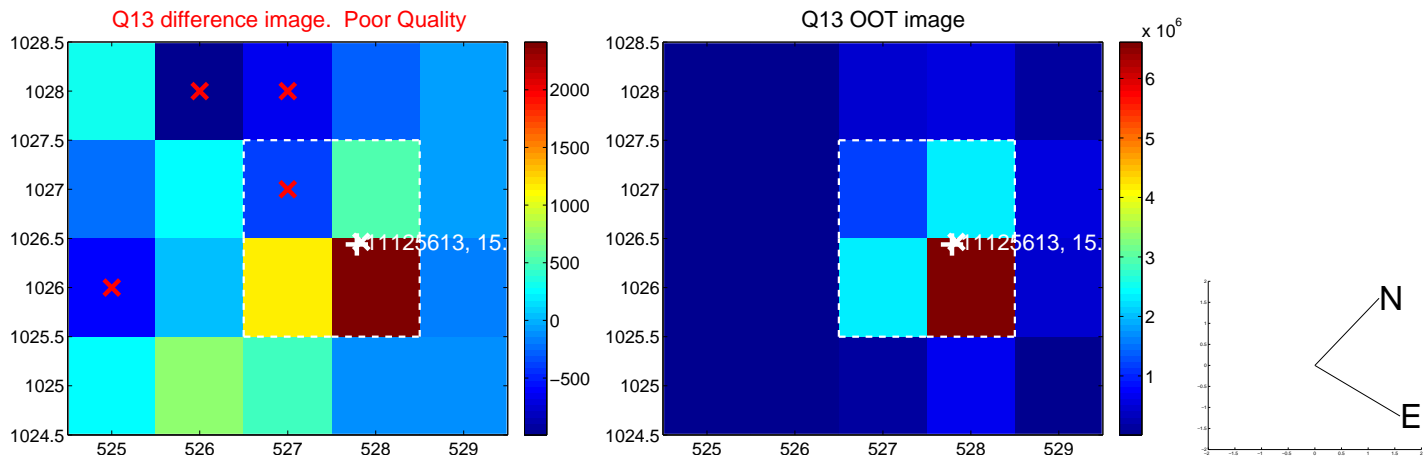
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



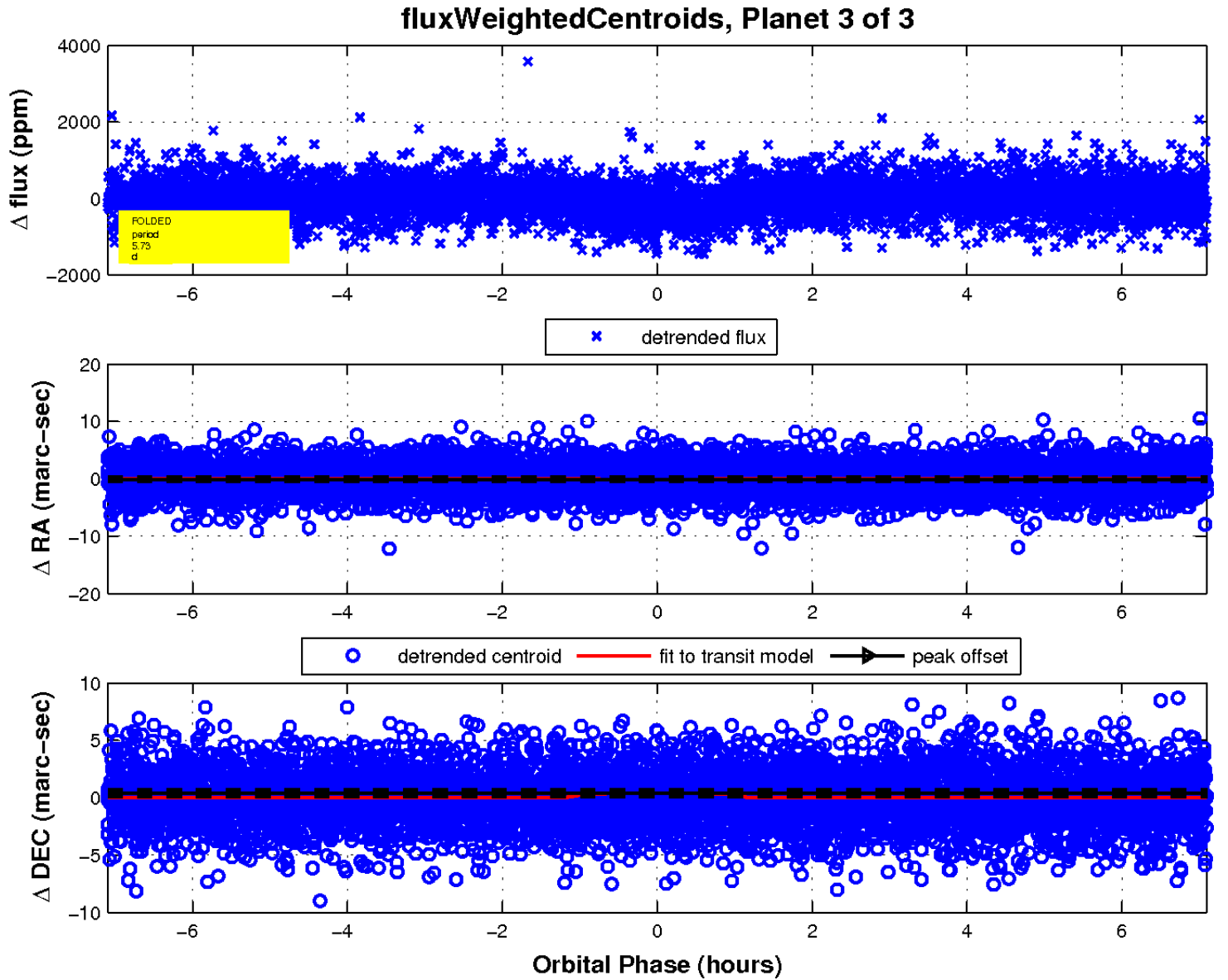
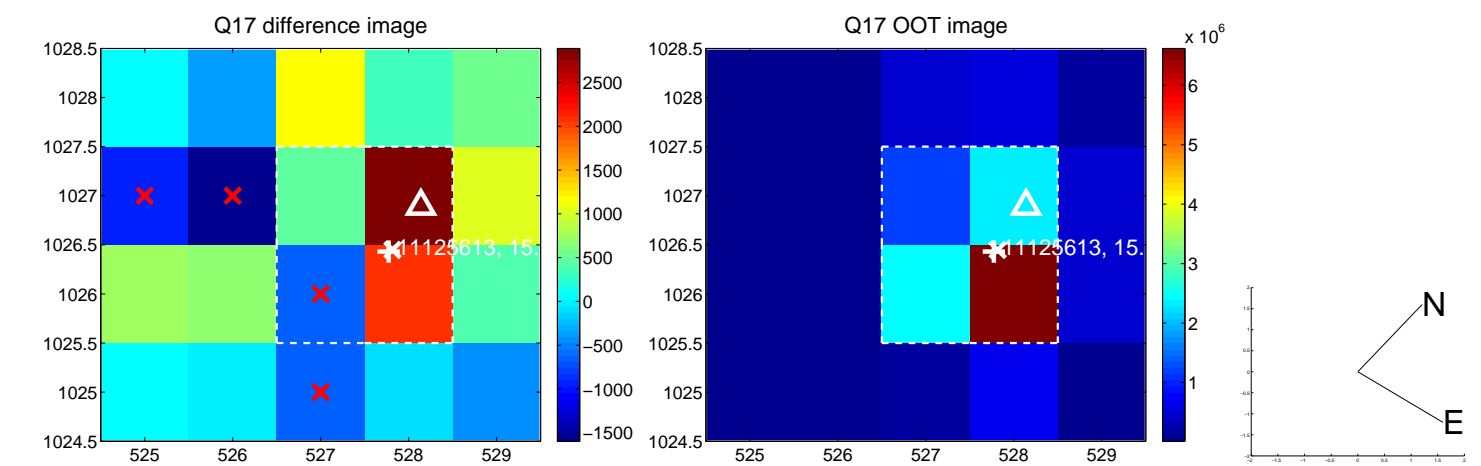
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

