

KIC 011751814

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})
011751814-01	OBS	No	0.879775	132.067925	0.8	4.460	7.9	0.2	1.26	6726	0.13	7685.11
011751814-02	OBS	No	105.531038	224.210646	486.3	3.219	8.5	9.6	1.26	6726	2.79	12.99
011751814-03	OBS	No	107.499758	237.105930	366.4	4.717	7.2	7.3	1.26	6726	2.64	12.68

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011751814-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
011751814-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
011751814-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

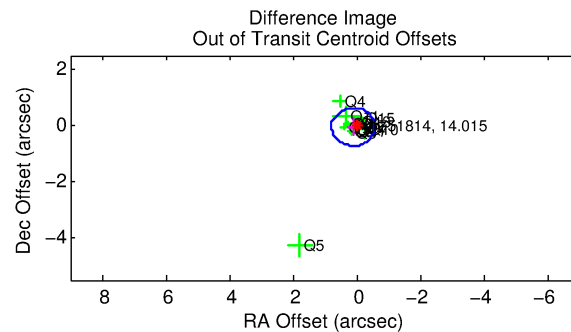
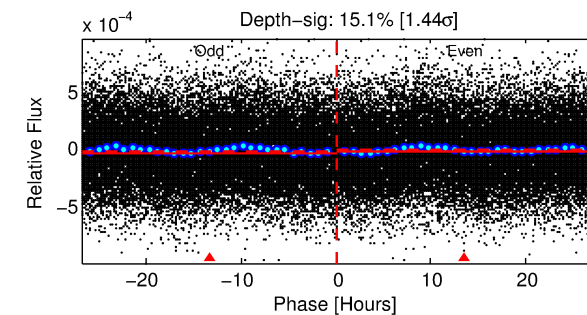
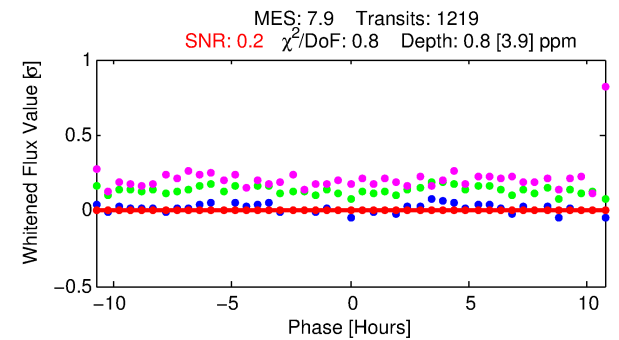
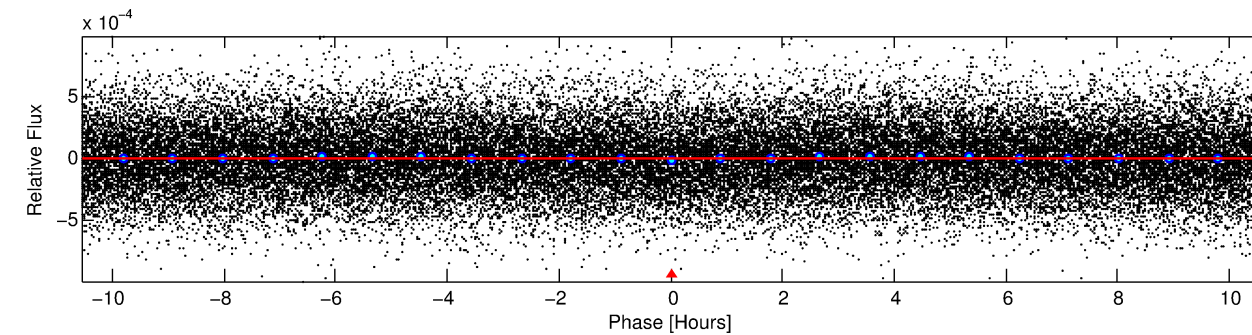
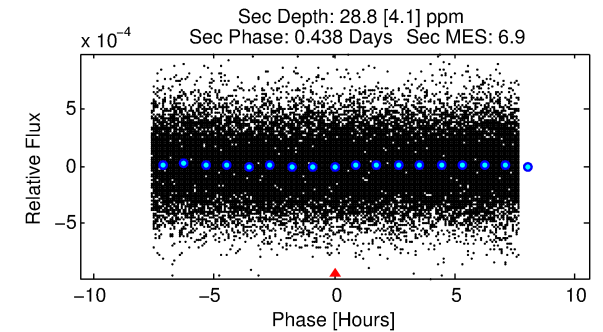
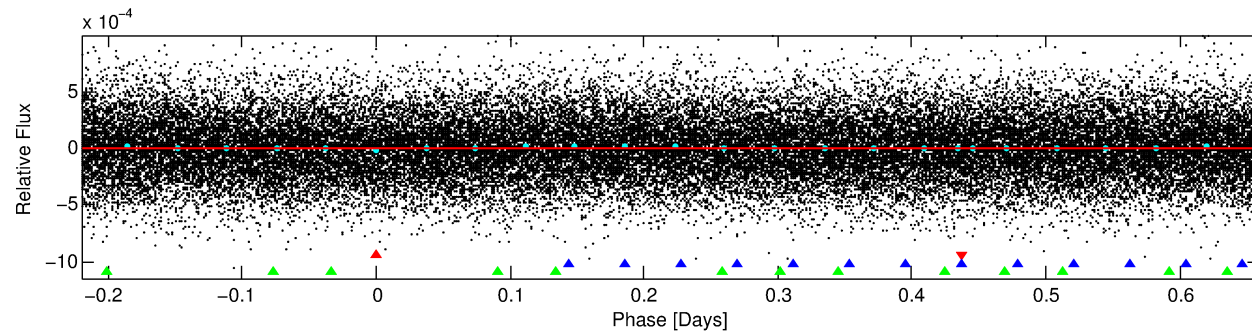
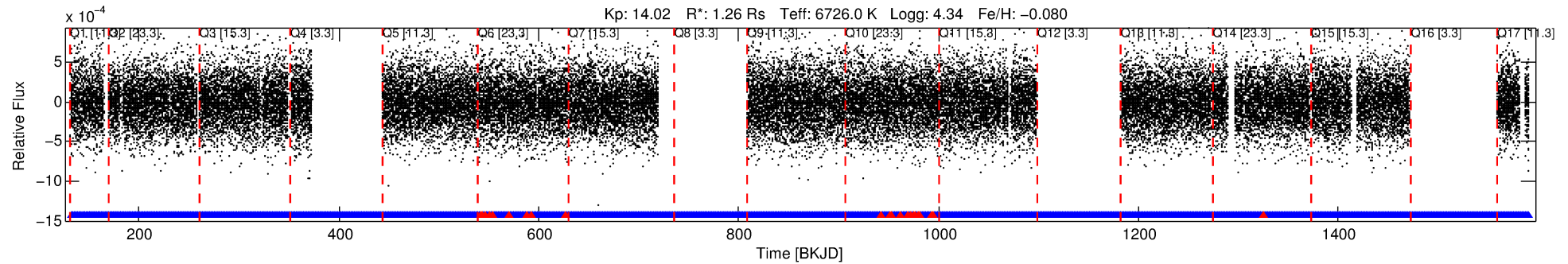
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011751814-01

No Significant Match Found

DV One-Page Summary

KIC: 11751814 Candidate: 1 of 3 Period: 0.880 d



DV Fit Results:

Period = 0.87977 [0.00052] d
Epoch = 132.0679 [0.1714] BKJD
Rp/R* = 0.0010 [0.0030]
a/R* = 1.16 [3.38]
b = 0.89 [2.69]
Seff = 7685.11 [2901.51]
Teff = 2387 [225] K
Rp = 0.13 [0.41] Re
a = 0.0194 [0.0047] AU
Ag = 341.51 [2099.26] [0.16σ]
Teffp = 15868 [24354] K [0.55σ]

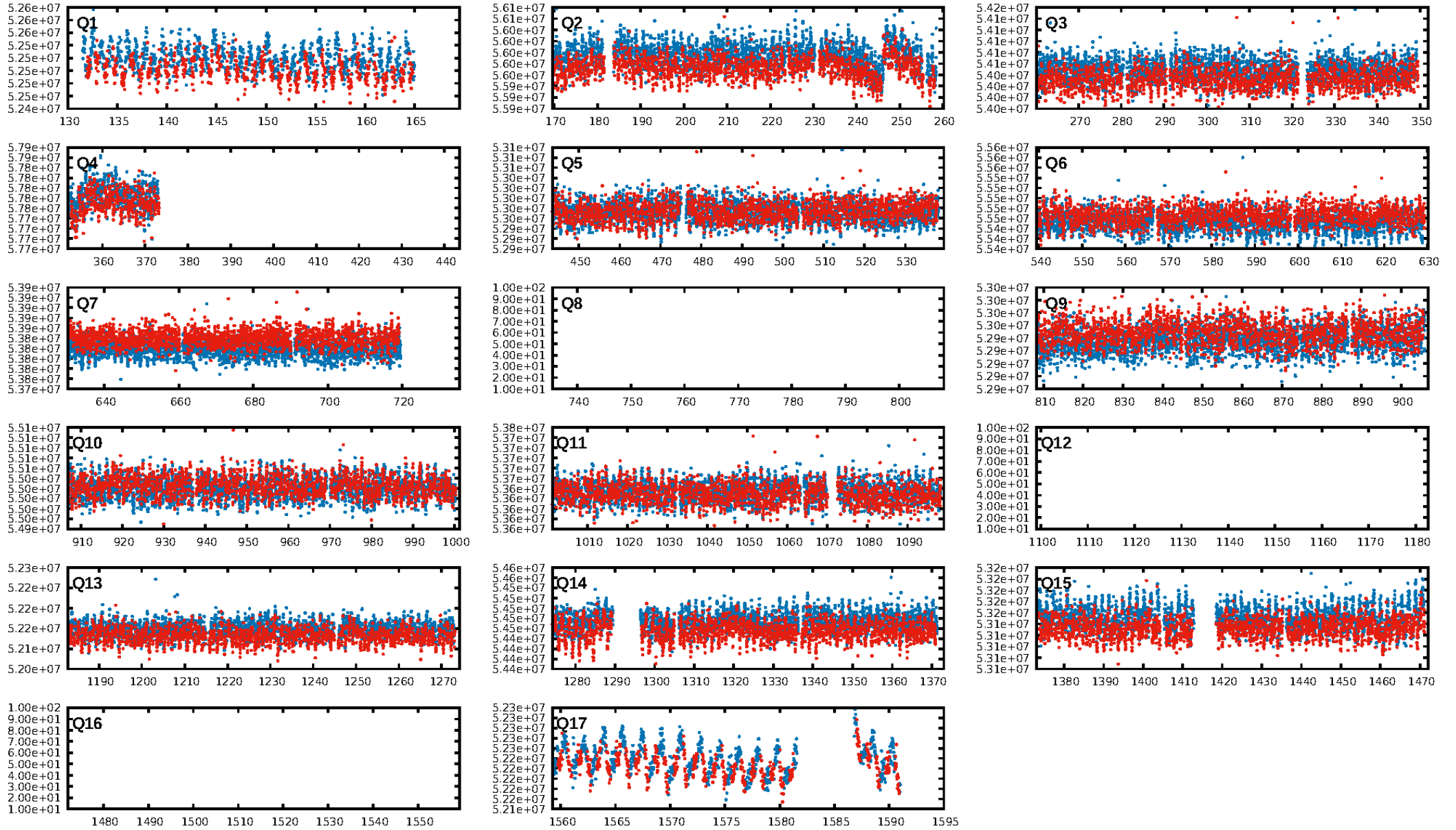
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [456.61σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 6.66e-12
RollingBand-fgt: 0.98 [1099/1127]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.115 arcsec [0.51σ]
KicOffset-rm: 0.100 arcsec [0.88σ]
OotOffset-st: 4/4/1/5 [14]
KicOffset-st: 4/4/1/5 [14]
DiffImageQuality-fgm: 0.71 [10/14]
DiffImageOverlap-fno: 1.00 [14/14]

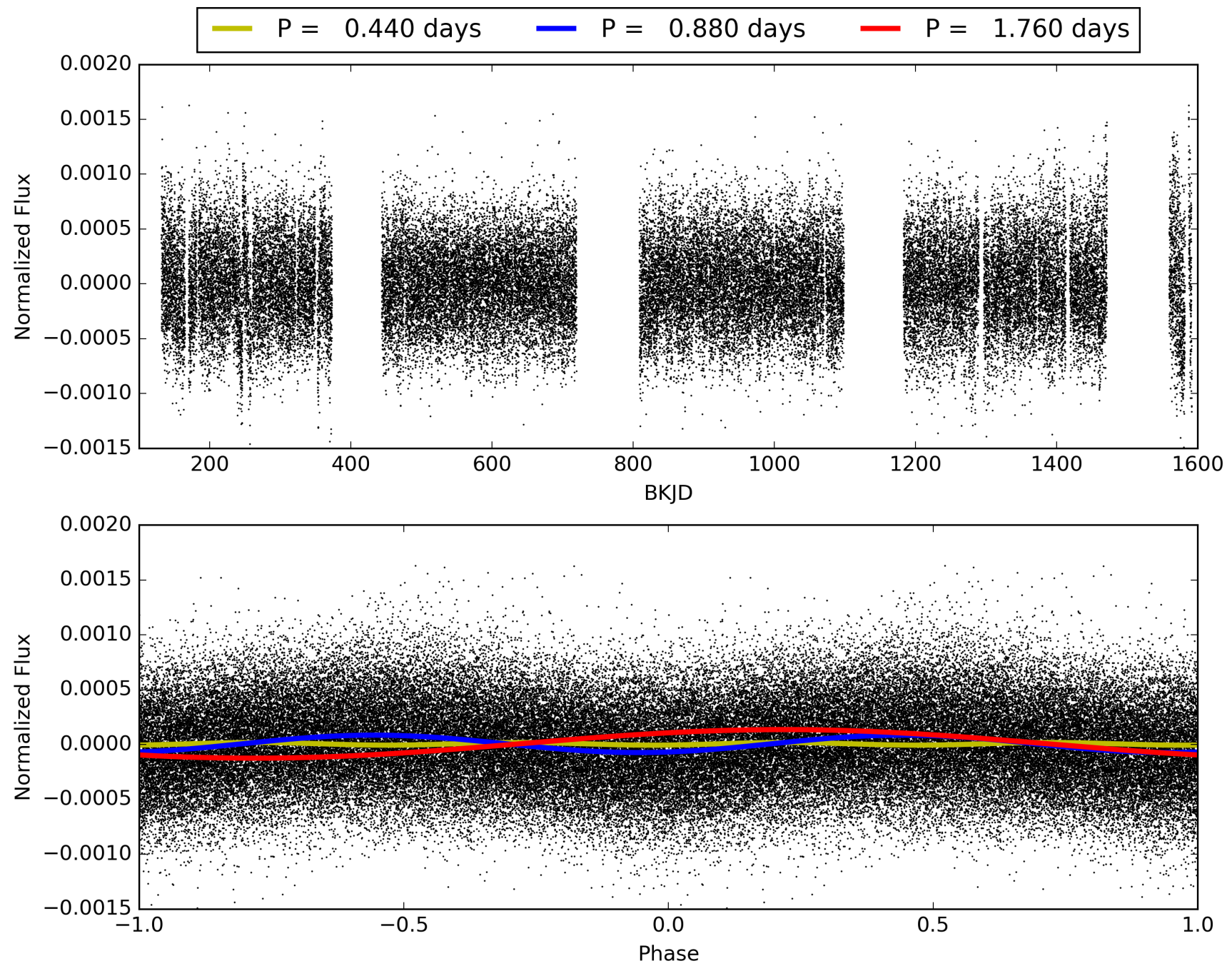
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 05:31:30 Z

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

TCE 011751814-01, PDC Light Curves

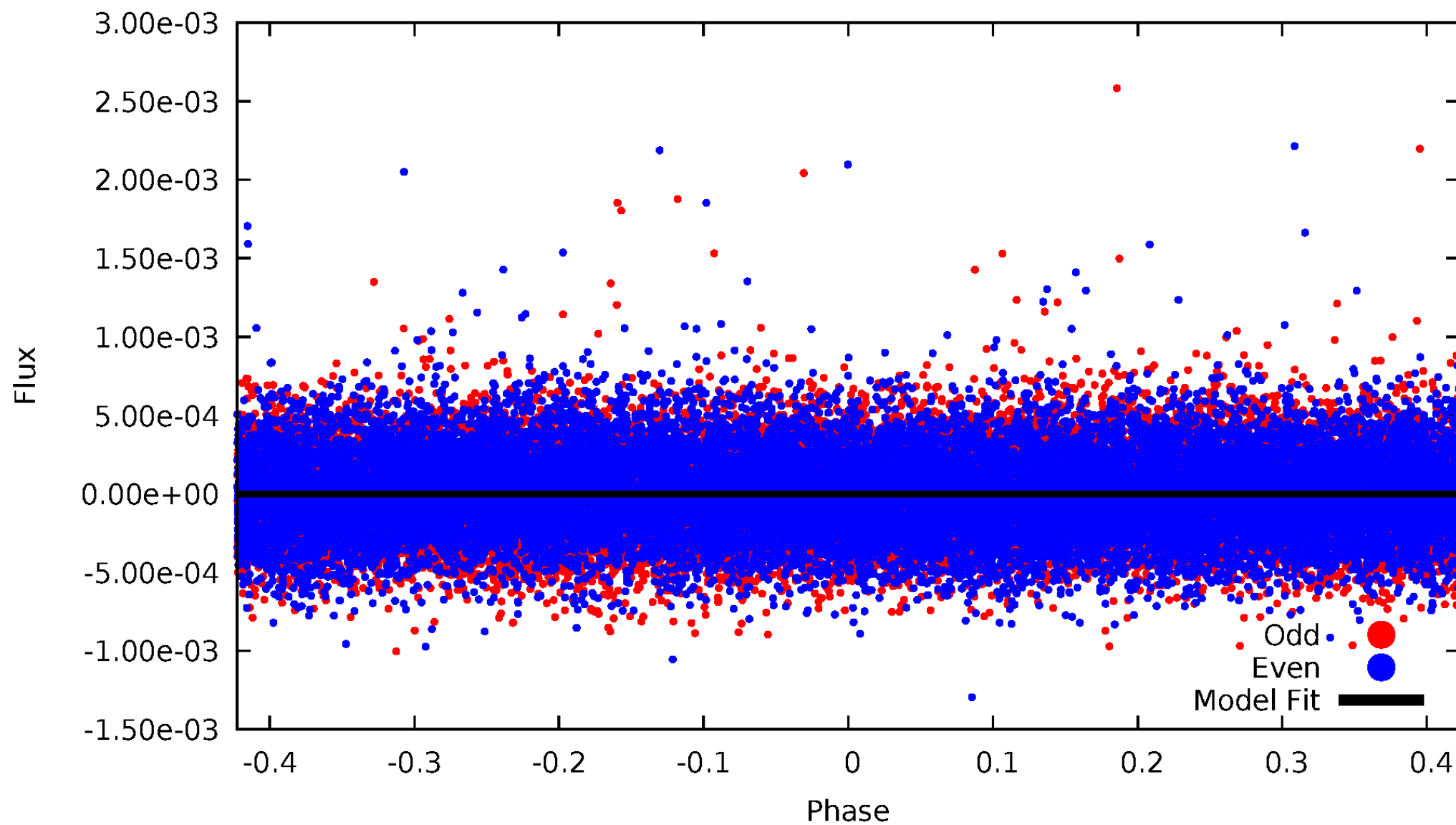


TCE 011751814-01



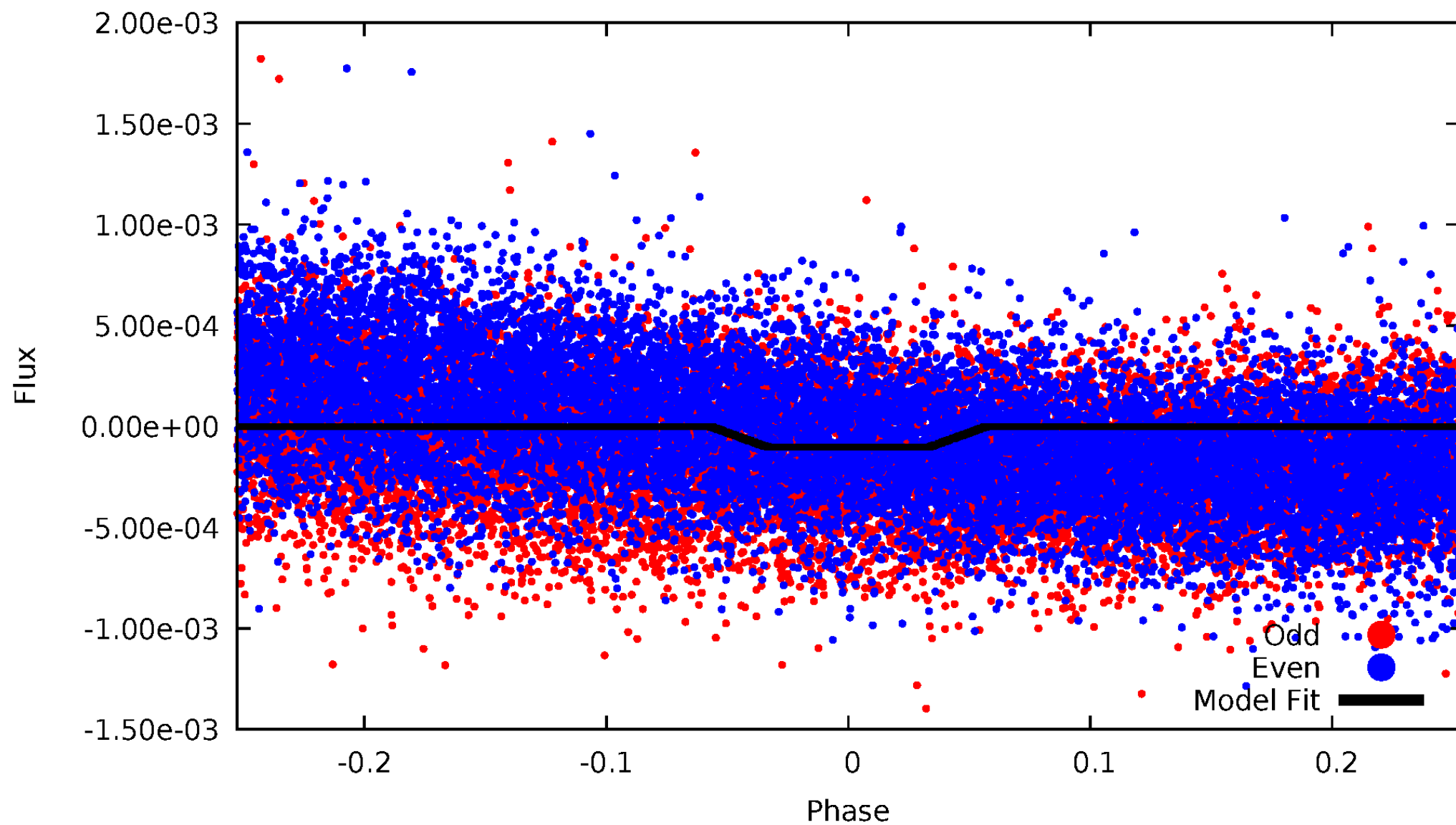
DV Odd/Even

TCE 011751814-01



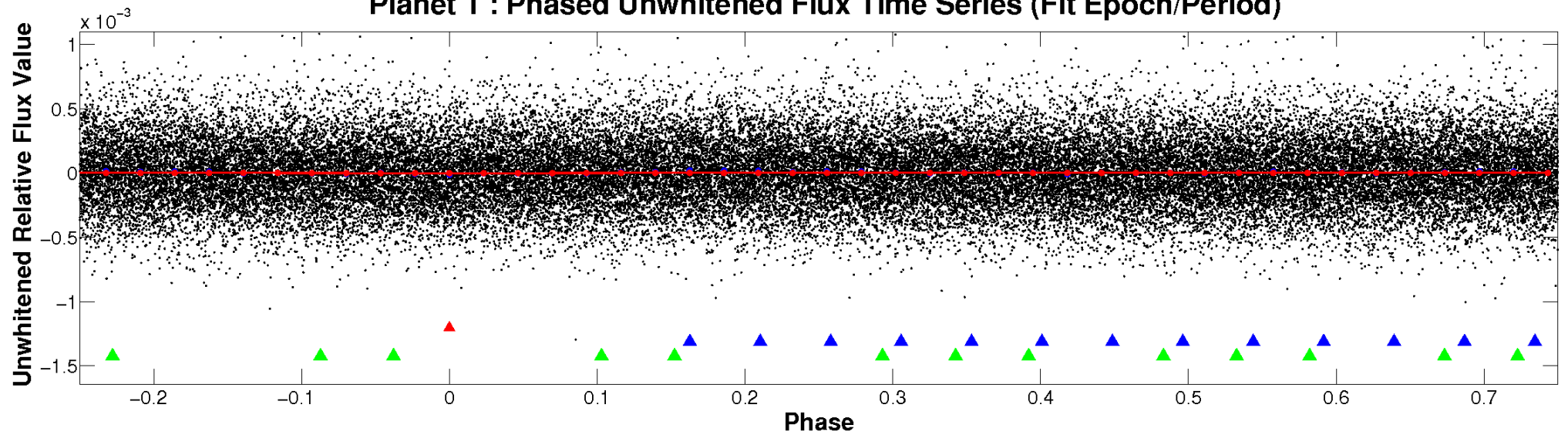
ALT Odd/Even

TCE 011751814-01

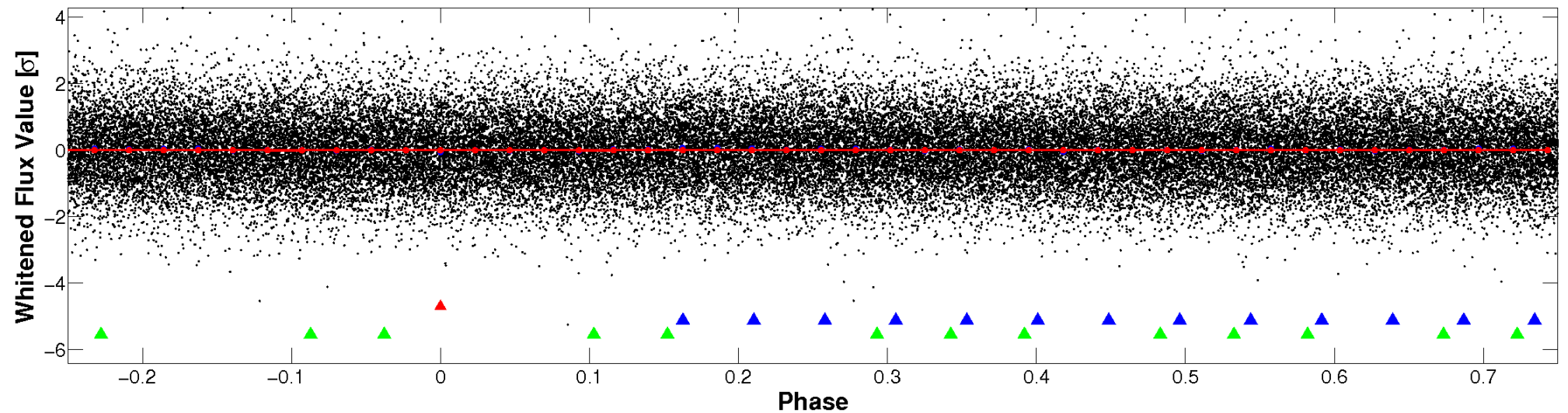


Non-Whitened Vs. Whitened Light Curve

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

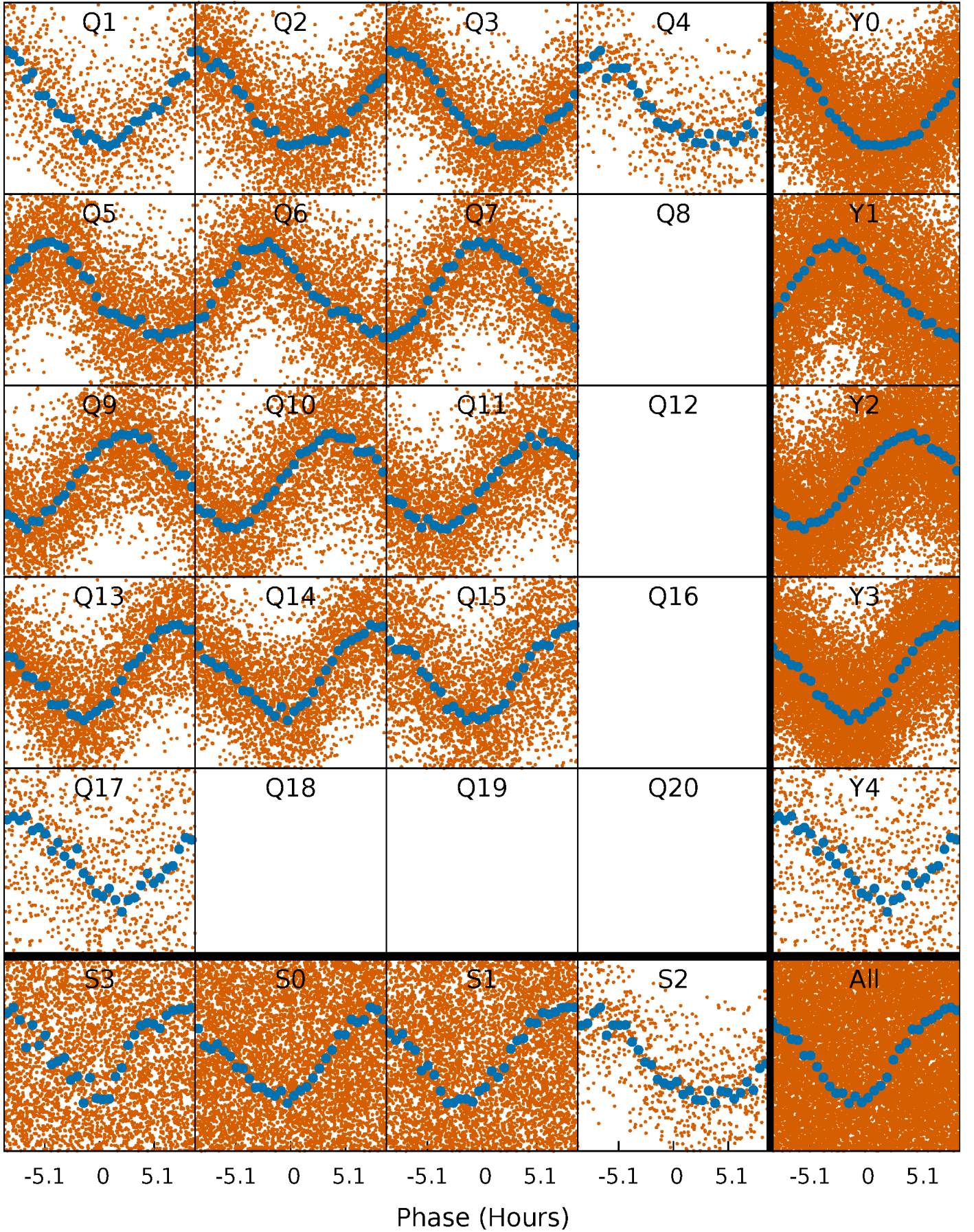


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



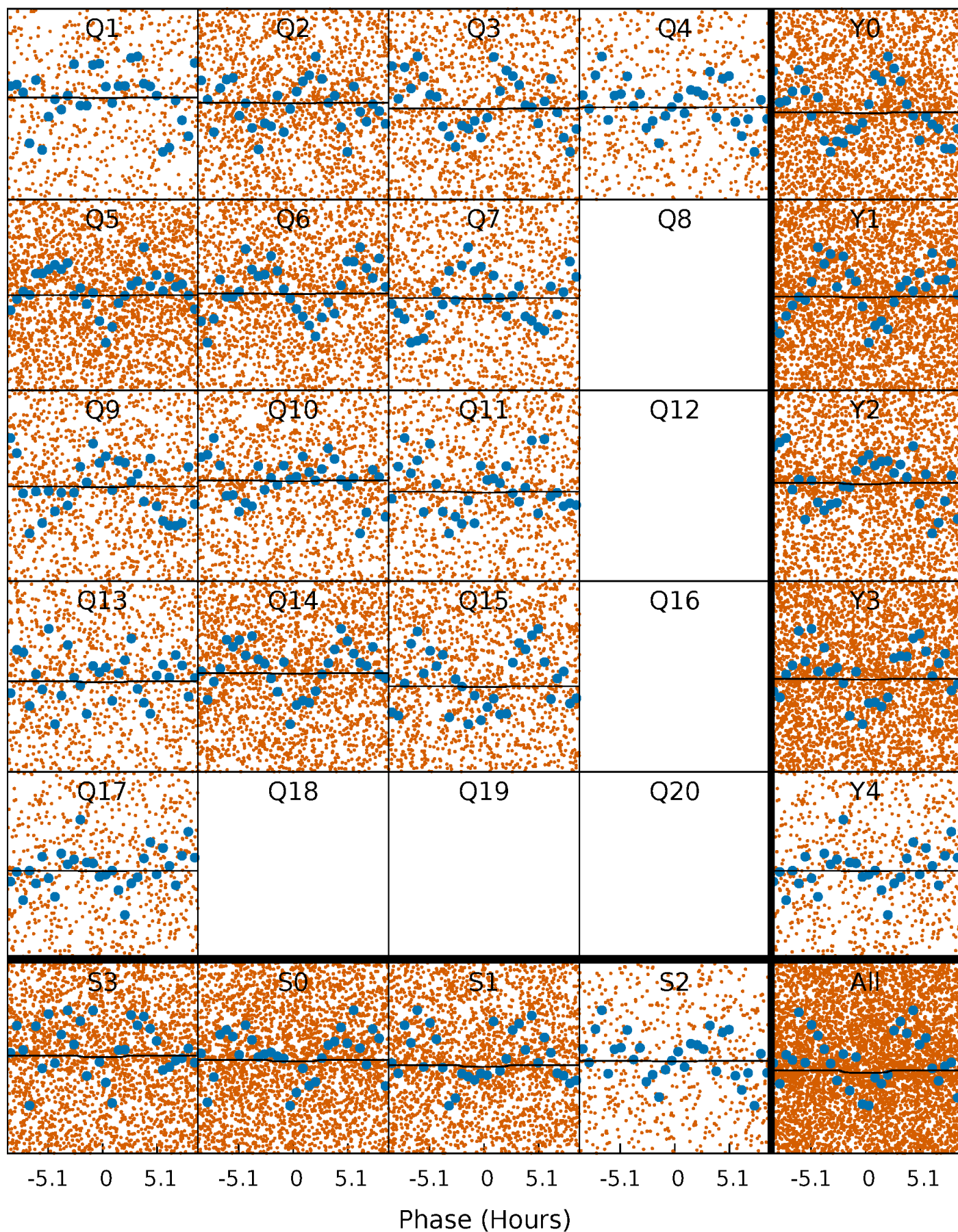
PDC Quarter-Phased Transit Curves

TCE 011751814-01 P= 0.879775 Days $T_0=132.067925$ (BKJD)



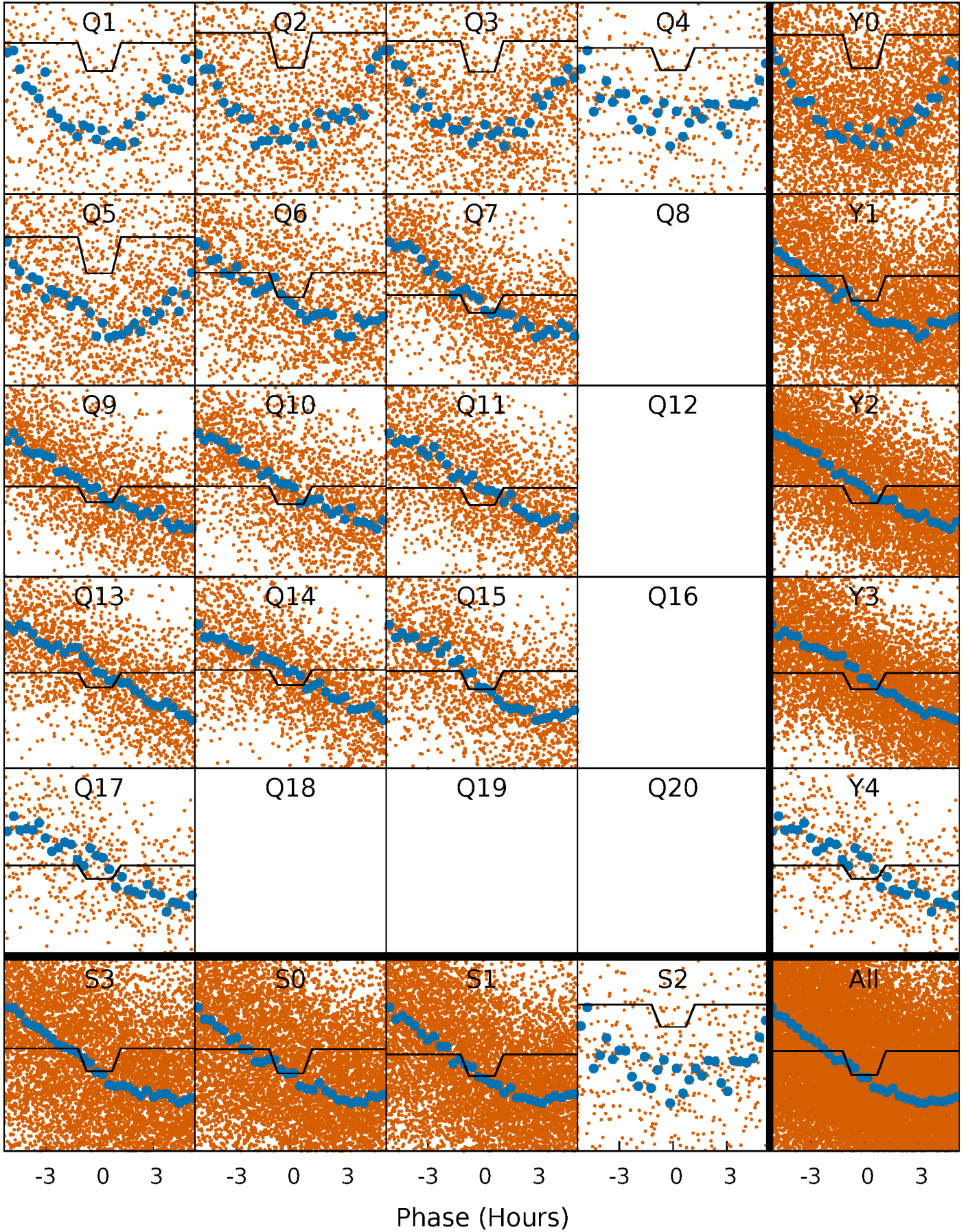
DV Quarter-Phased Transit Curves

TCE 011751814-01 P= 0.879775 Days $T_0=132.067925$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

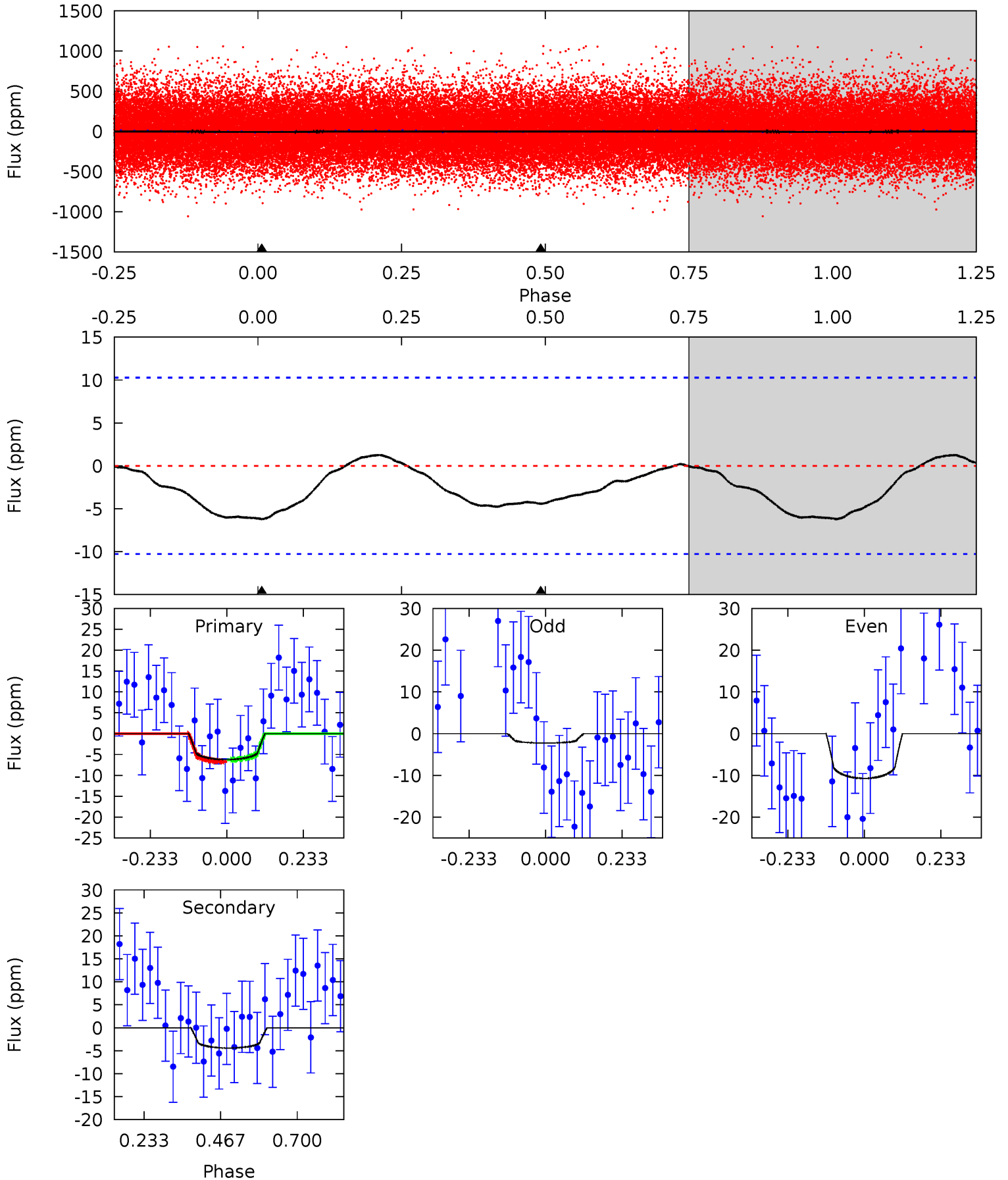
TCE 011751814-01 P= 0.880258 Days $T_0=132.067678$ (BKJD)



DV Model-Shift Uniqueness Test

011751814-01, P = 0.879775 Days, E = 131.188150 Days

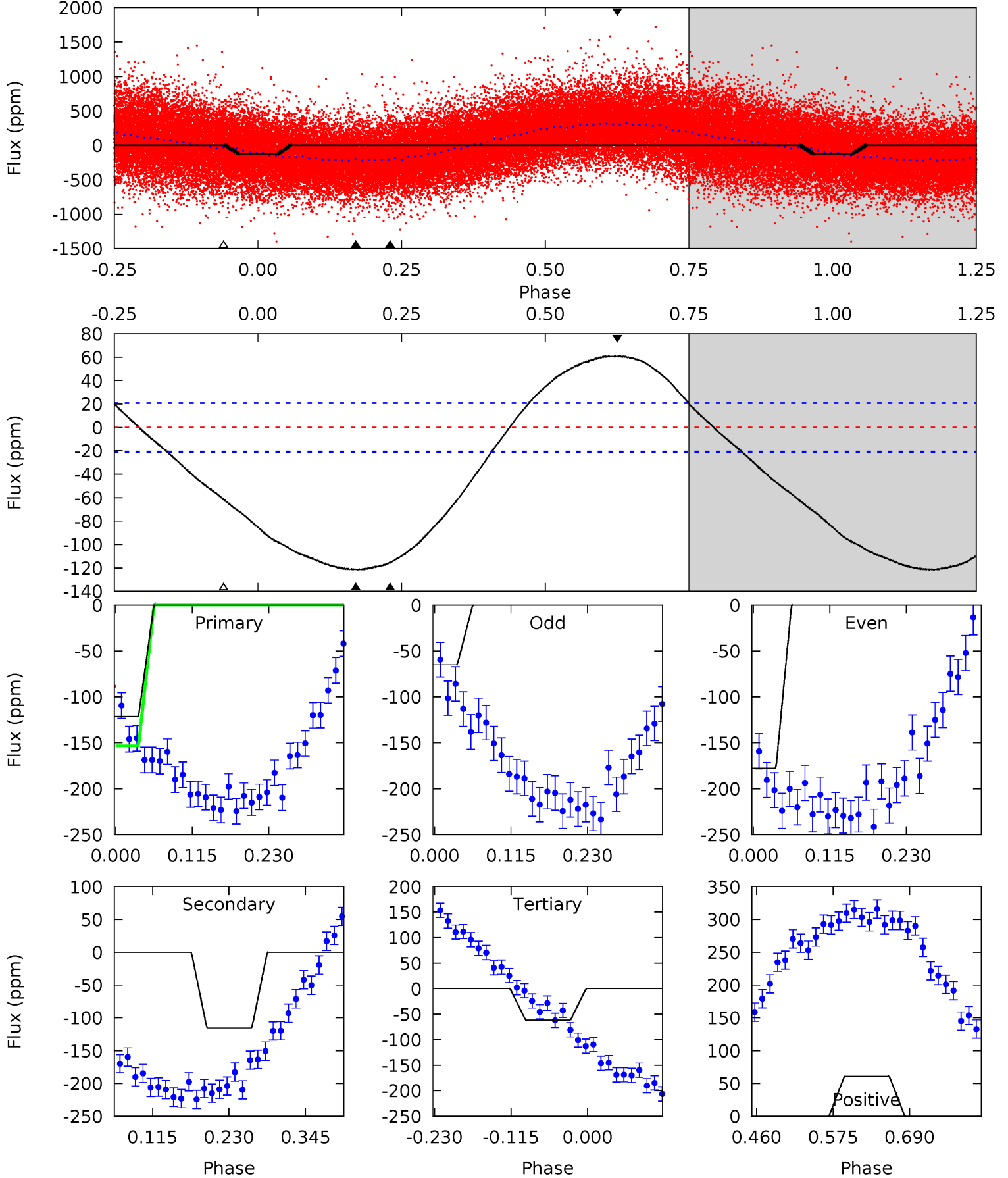
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.65	1.89	0	0	4.38	1.19	0.14	2.65	2.65	1.89	1.89	1.78	0.82	0.17	0.08



Alt Model-Shift Uniqueness Test

011751814-01, P = 0.880258 Days, E = 131.187420 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.5	25.2	13.4	13.3	4.54	1.58	11.0	13.1	13.2	11.8	11.9	12.4	1.11	0.33	7.20



Stellar Parameters For KIC 011751814

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6726^{+161}_{-241}	$4.340^{+0.062}_{-0.188}$	$-0.080^{+0.250}_{-0.300}$	$1.257^{+0.371}_{-0.159}$	$1.269^{+0.187}_{-0.168}$	$0.900^{+0.295}_{-0.457}$
	+2%/-4%	+1%/-4%	+312%/-375%	+30%/-13%	+15%/-13%	+33%/-51%
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 011751814-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-4 ± 2	$0.35^{+0.37}_{-0.25}$	3402^{+233}_{-167}	6077^{+8534}_{-2070}	$7.323^{+85.494}_{-6.163}$
Alt.	-115 ± 5	$1.45^{+0.50}_{-0.48}$	3395^{+233}_{-166}	6841^{+1863}_{-900}	11^{+14}_{-5}

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 $A_{obs} \gg 1.0$

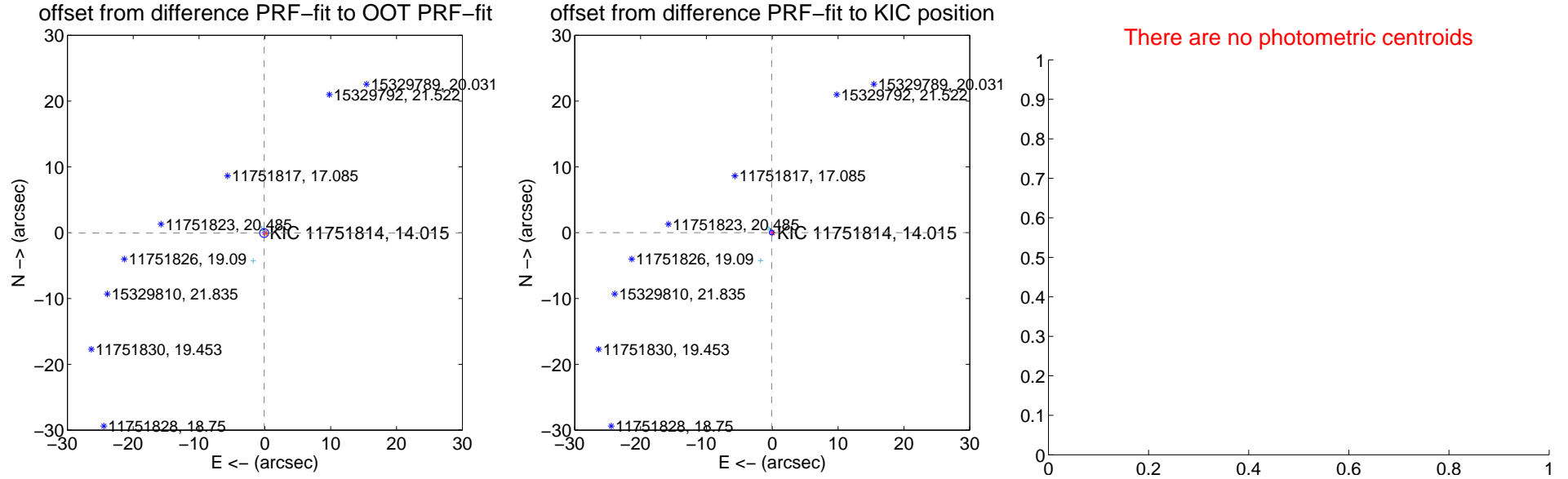
DV Centroid Data

Supplemental centroid analysis for 011751814-01. Kepler magnitude: 14.02. Transit SNR 0.23

There are 10 quarters with good PRF difference image offsets

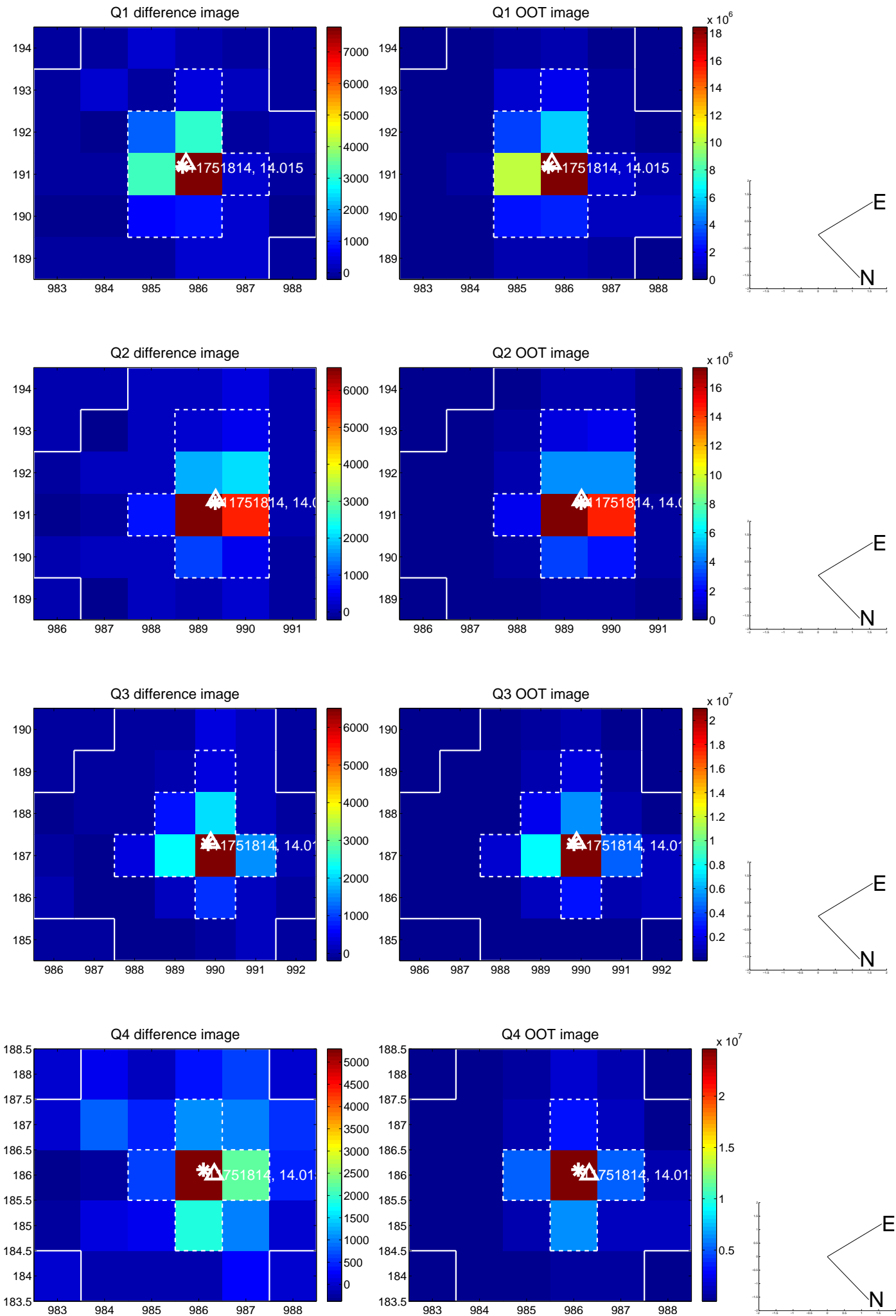
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.115 ± 0.225	0.51	0.106 ± 0.139	-0.046 ± 0.294
PRF-fit source offset from KIC position	0.100 ± 0.114	0.88	0.099 ± 0.144	0.013 ± 0.336
photometric centroid source offset	—	—	—	—

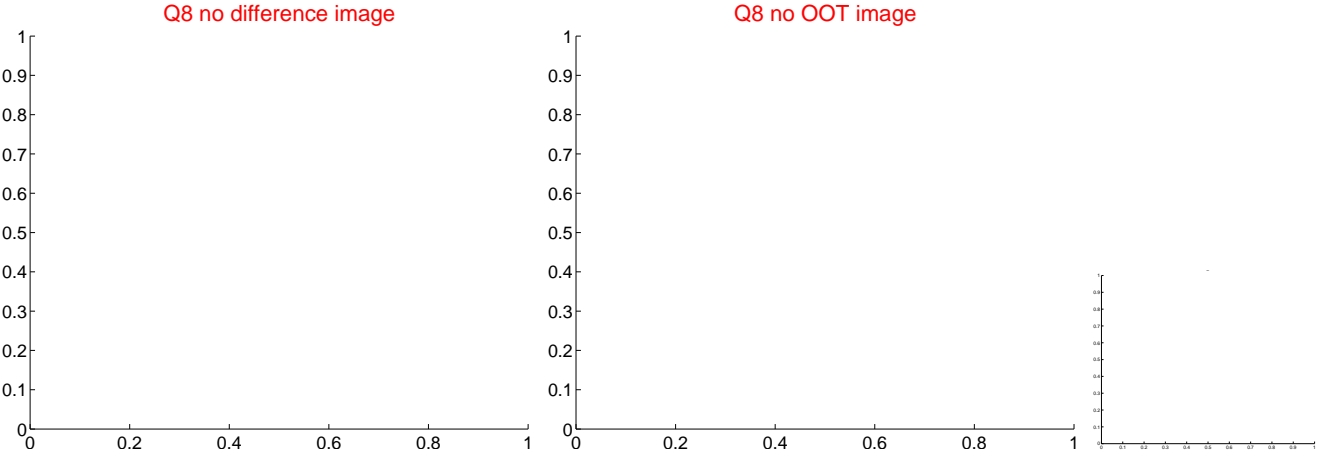
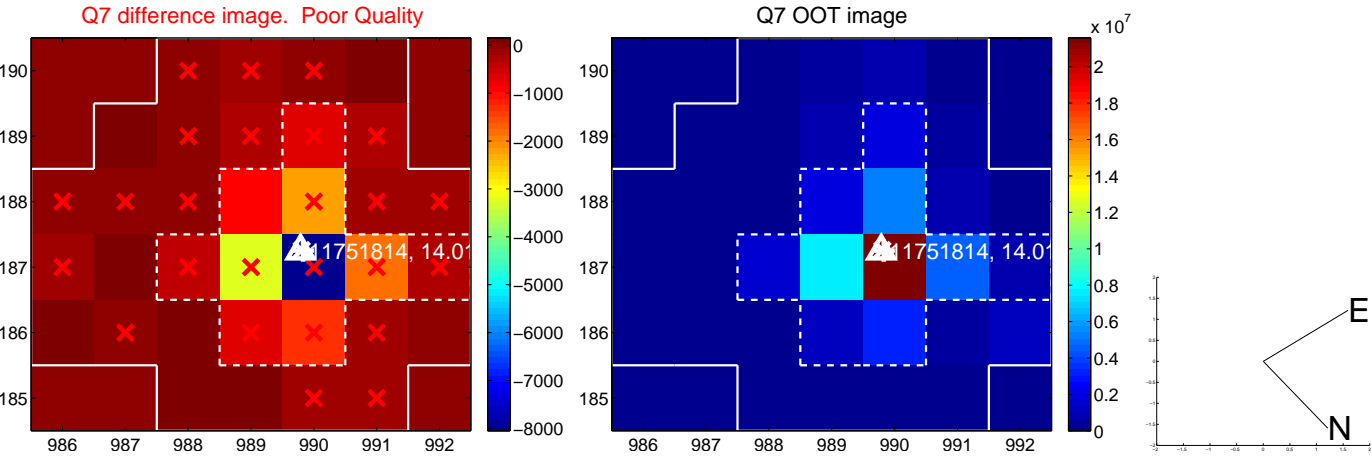
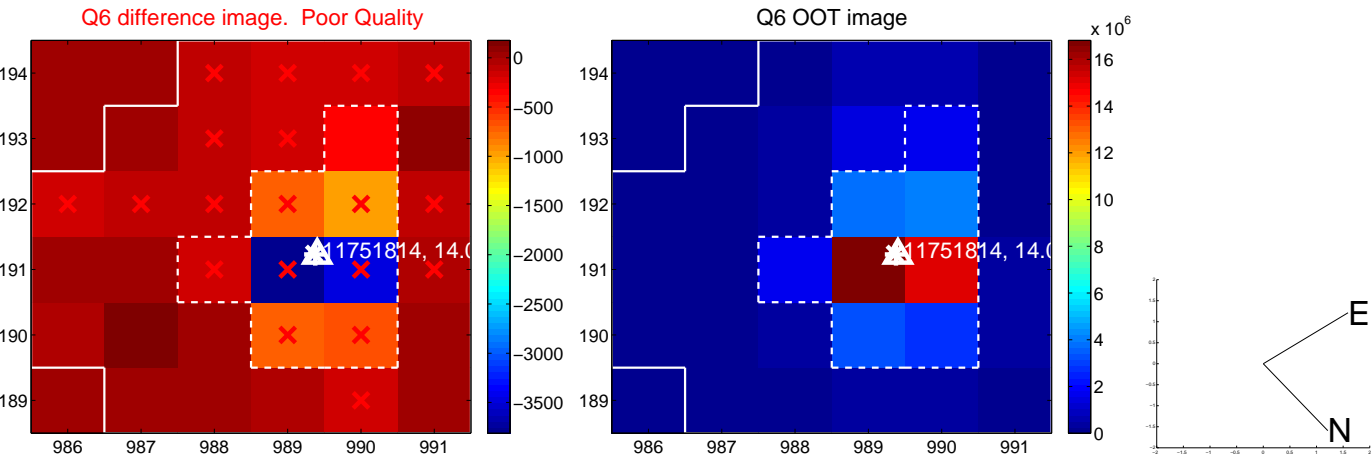
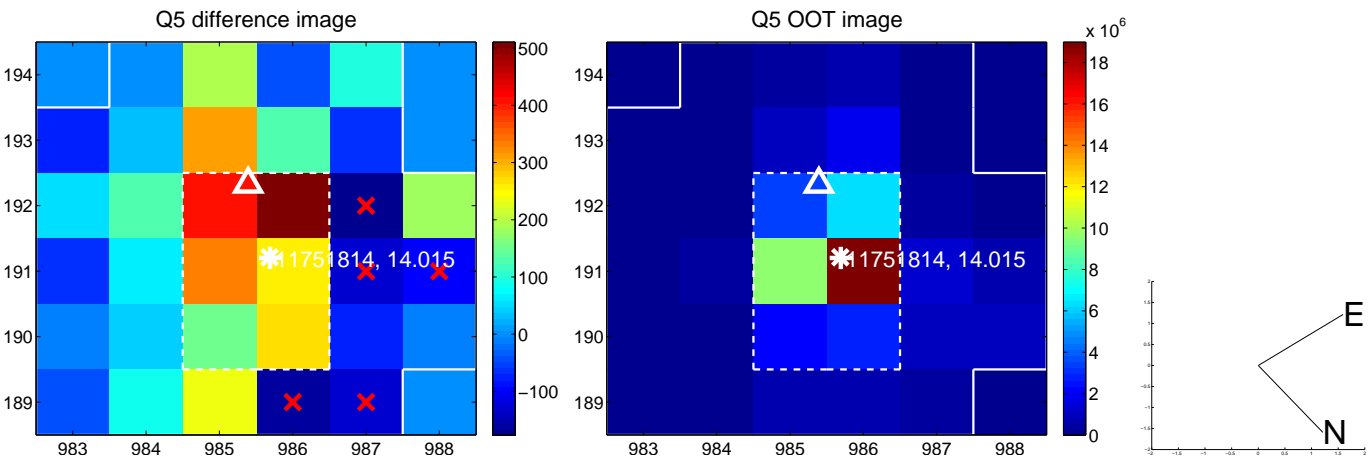


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

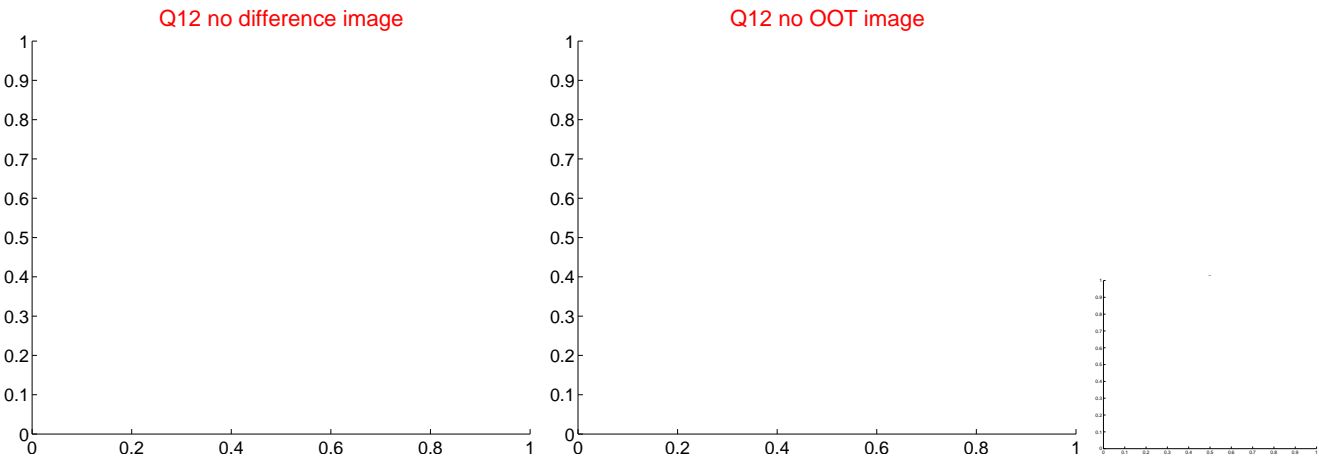
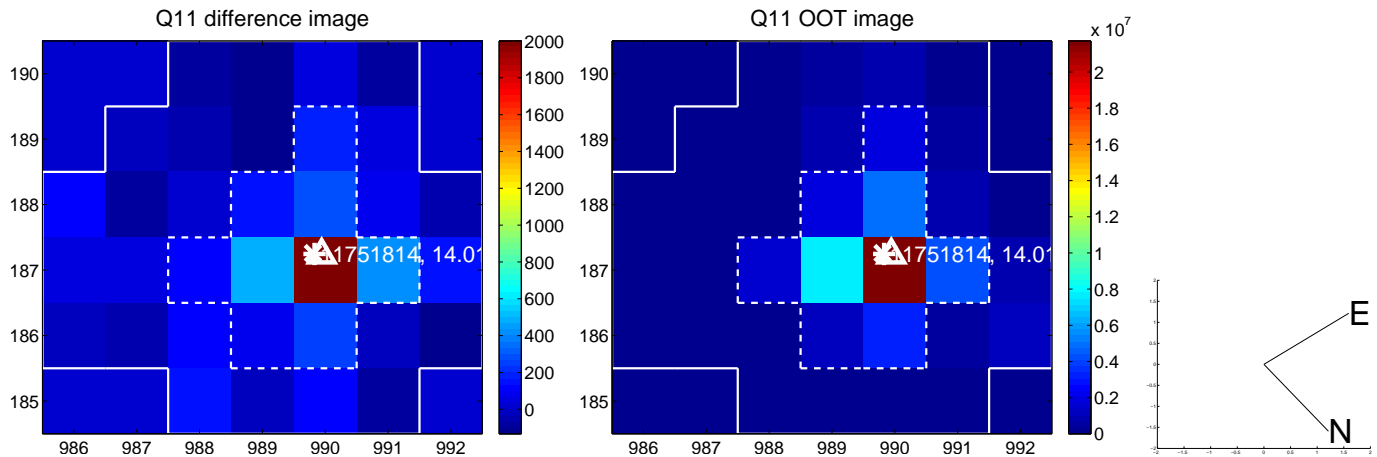
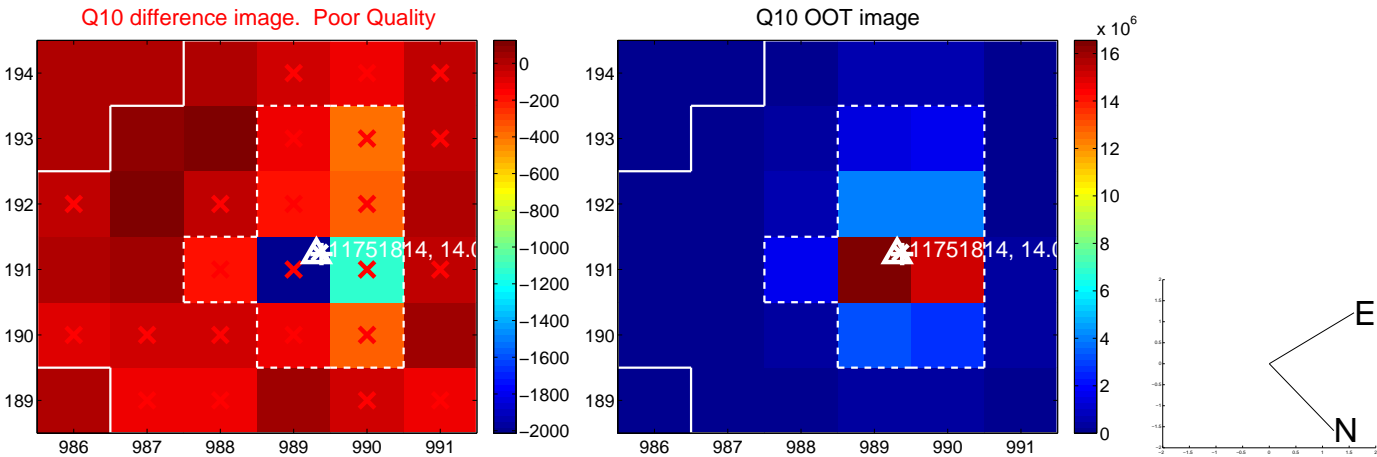
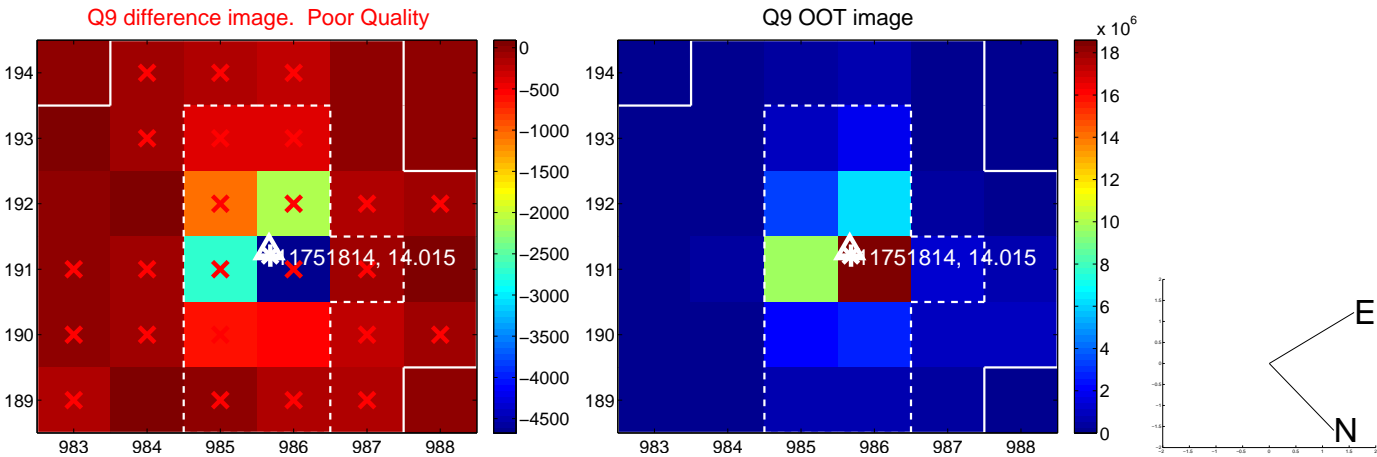
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



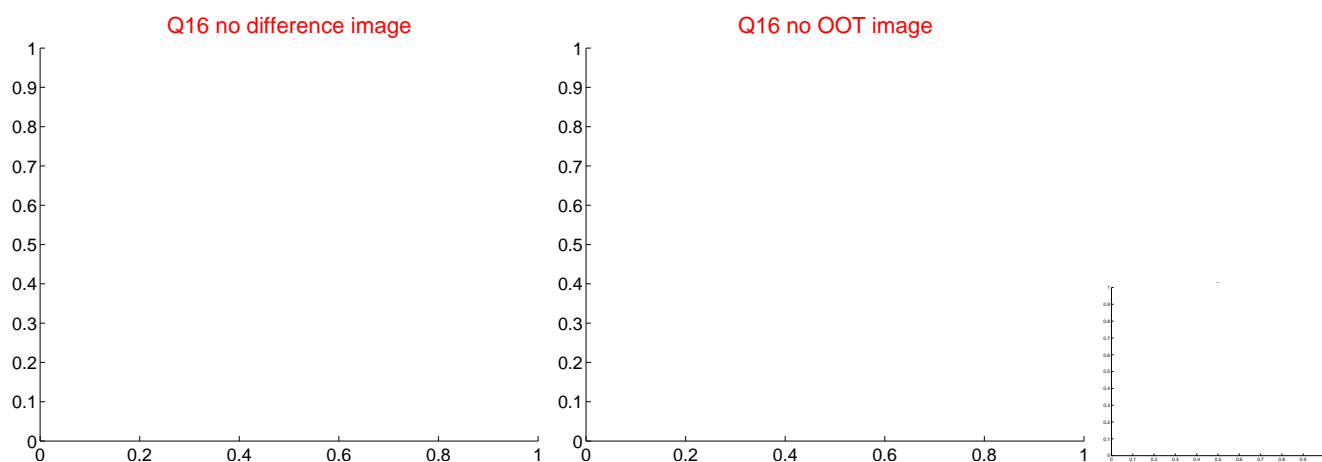
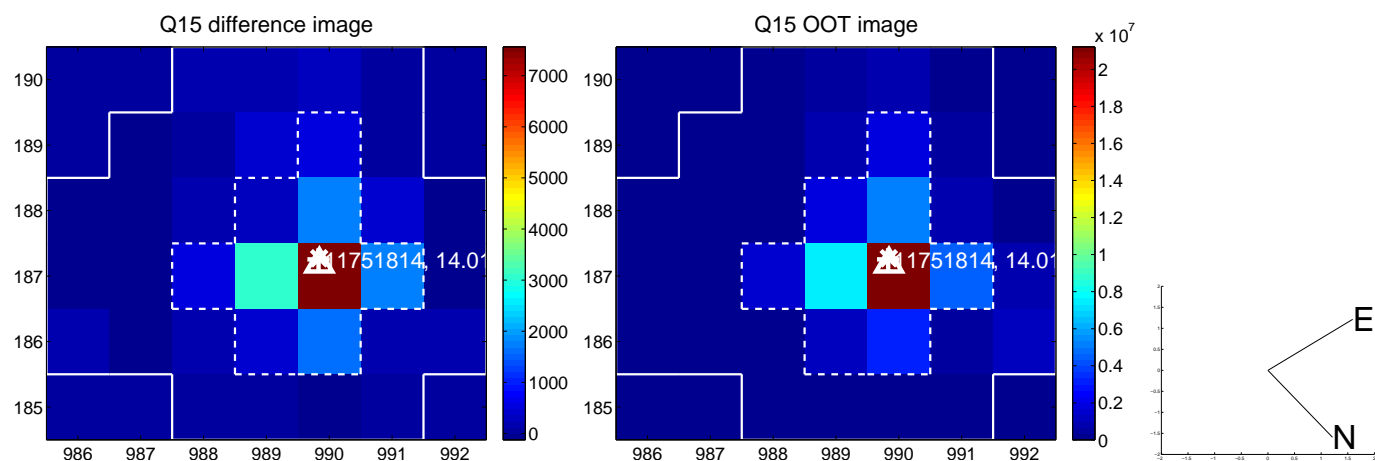
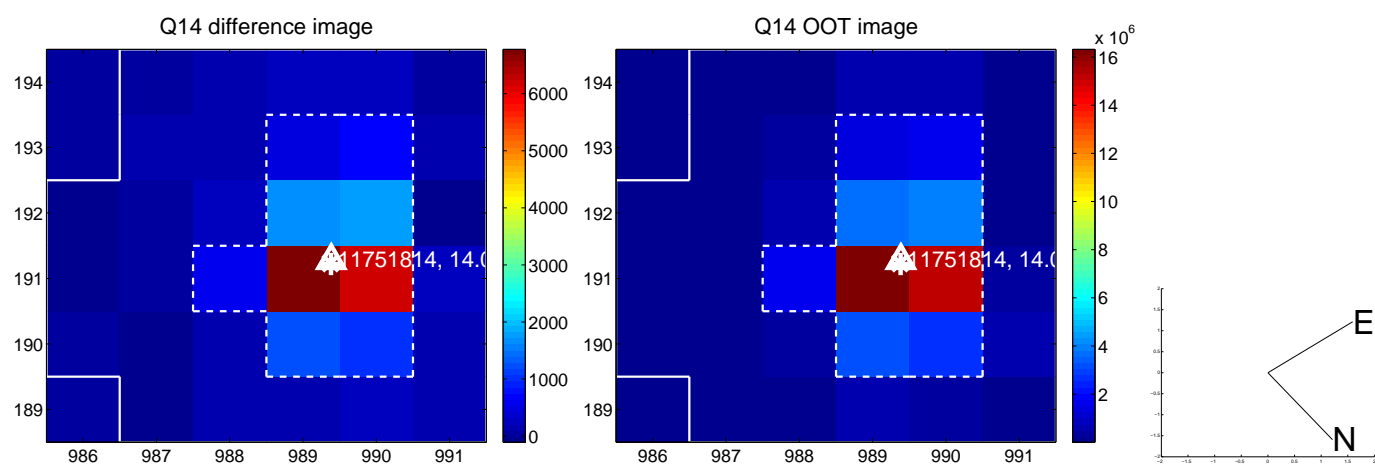
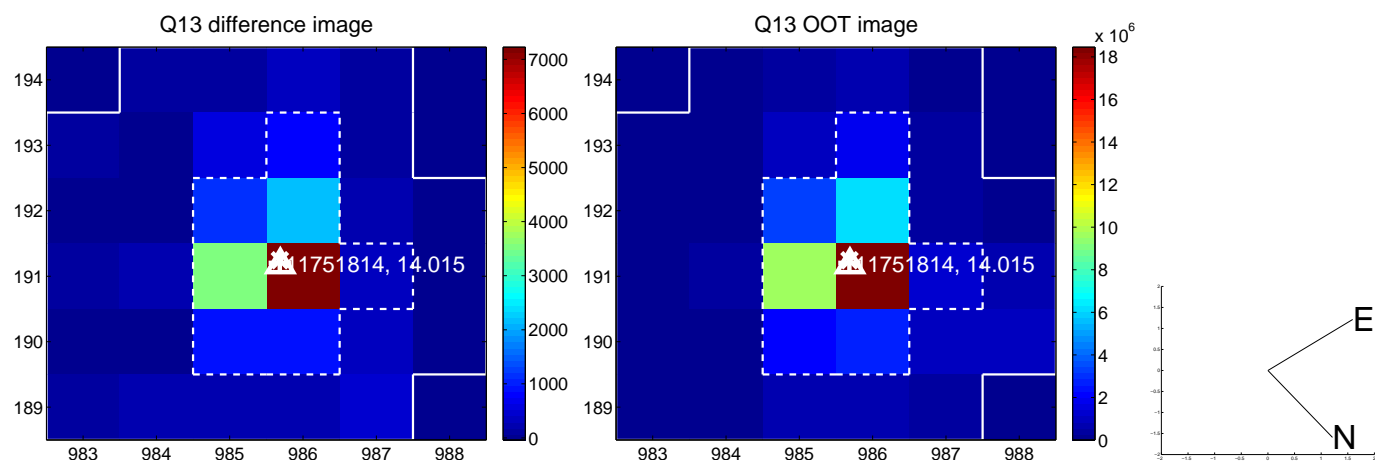
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



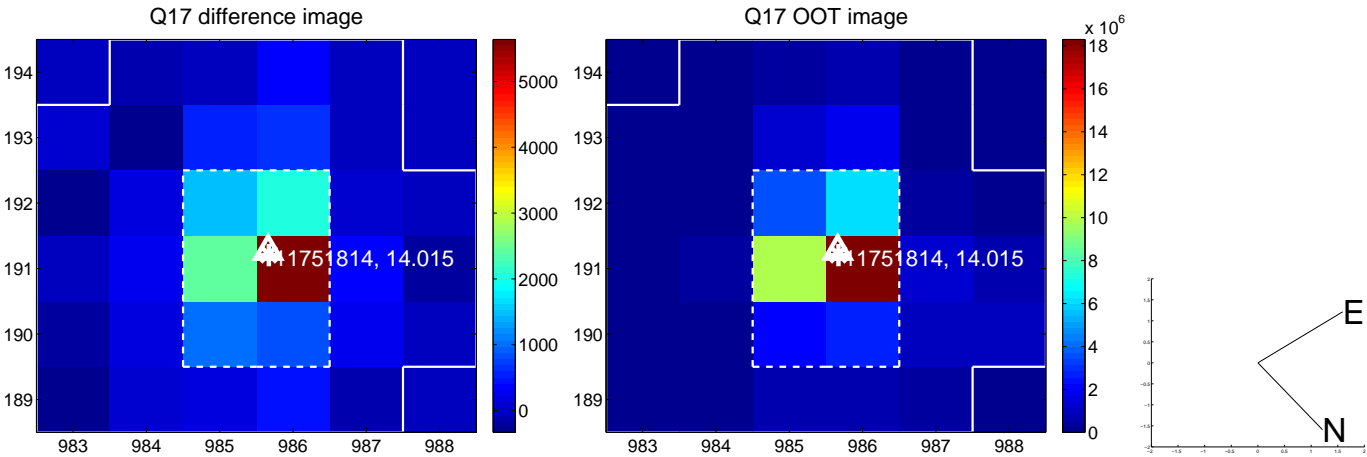
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



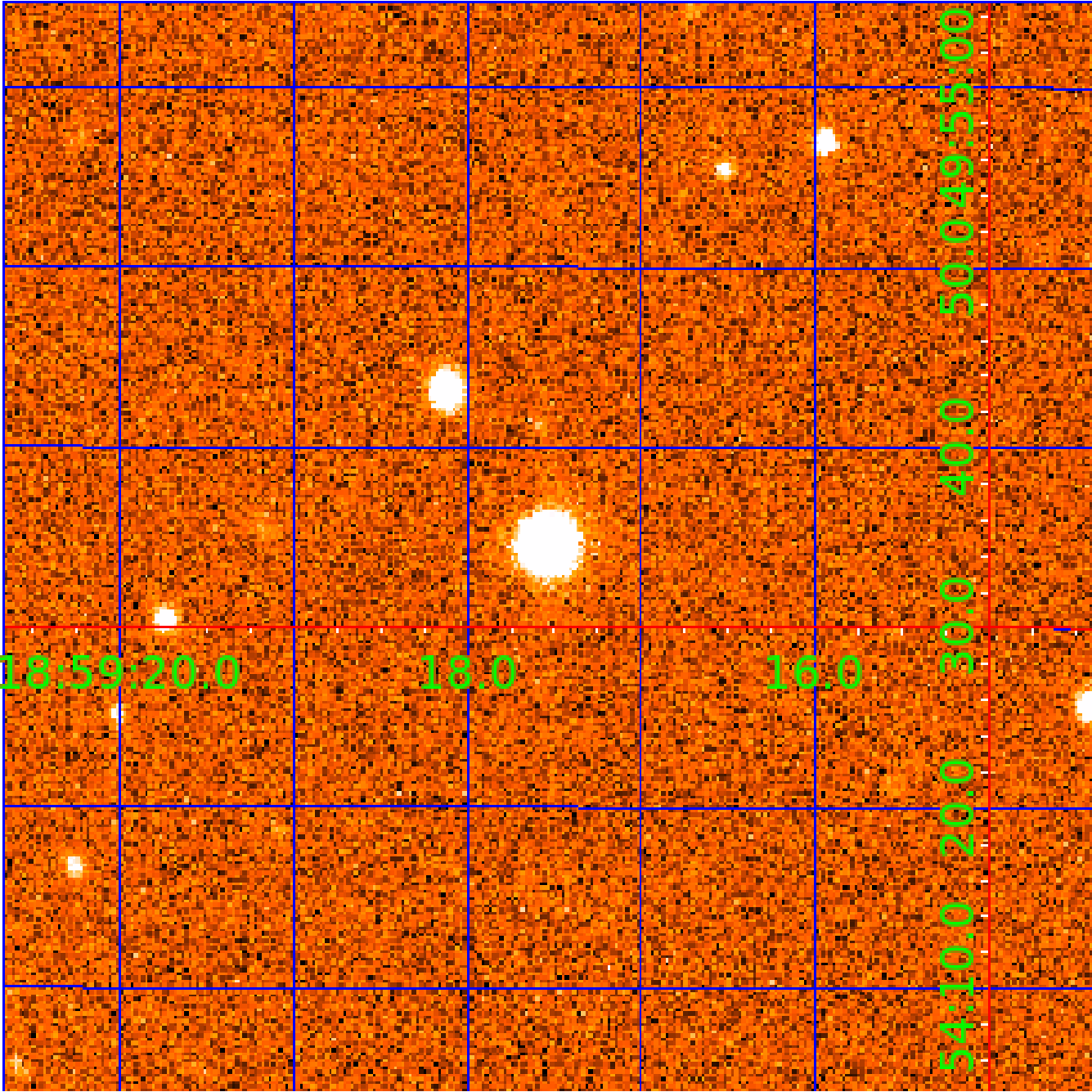
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 011751814

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})
011751814-01	OBS	No	0.879775	132.067925	0.8	4.460	7.9	0.2	1.26	6726	0.13	7685.11
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011751814-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
011751814-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
011751814-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

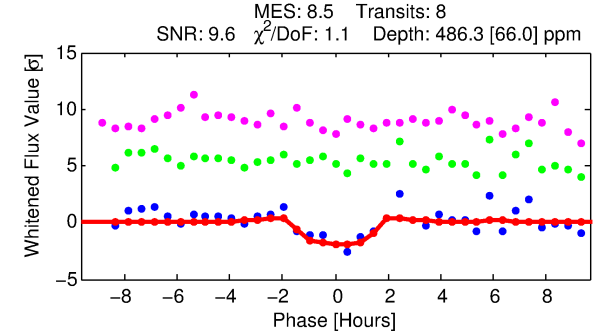
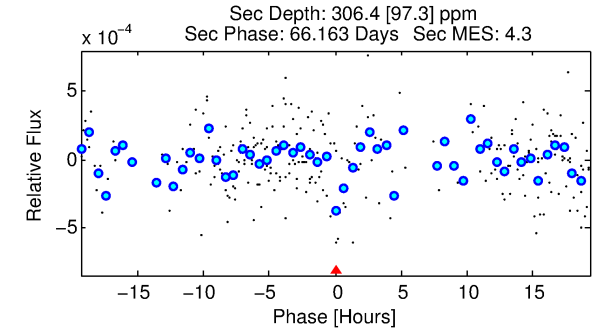
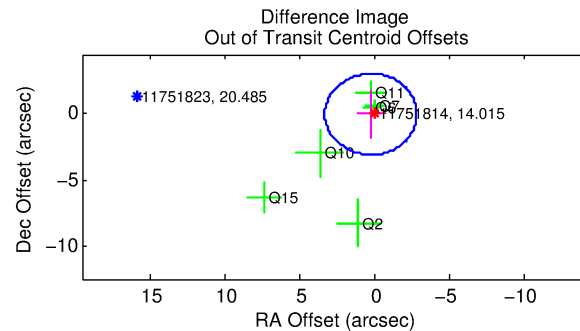
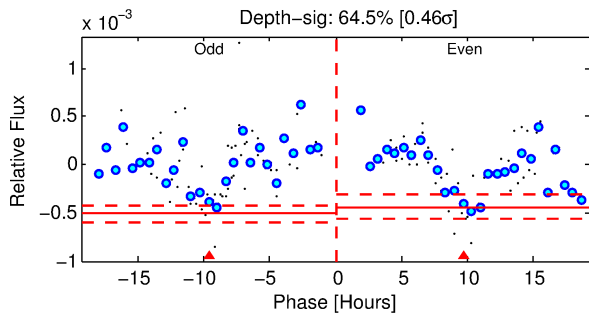
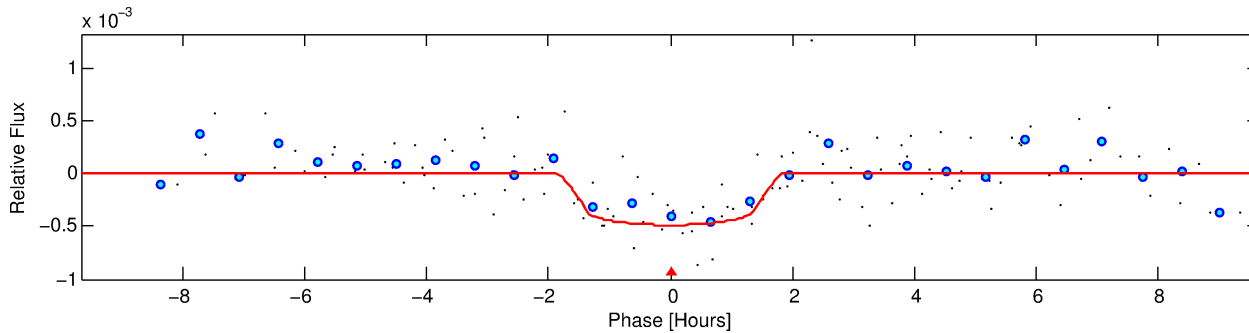
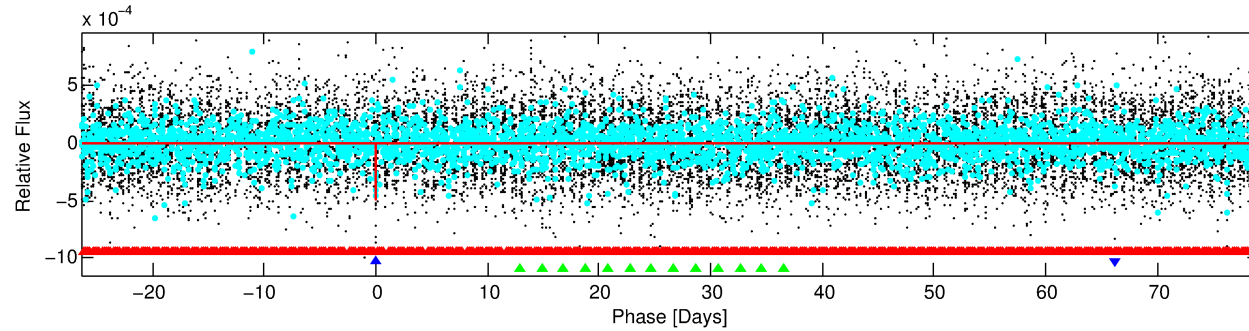
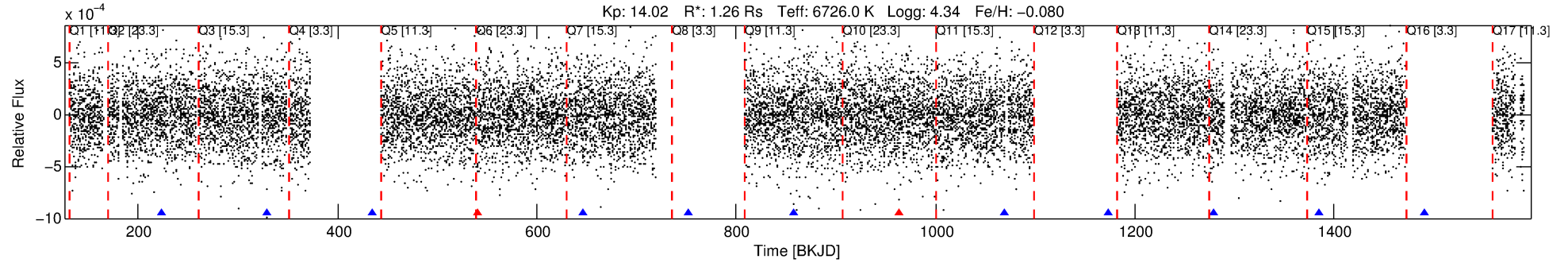
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011751814-02

No Significant Match Found

DV One-Page Summary

KIC: 11751814 Candidate: 2 of 3 Period: 105.531 d



DV Fit Results:

Period = 105.53104 [0.00233] d
Epoch = 224.2106 [0.0121] BKJD
Rp/R* = 0.0204 [0.0400]
a/R* = 255.56 [2693.54]
b = 0.01 [2019.84]
Seff = 12.99 [4.90]
Teff = 484 [46] K
Rp = 2.79 [5.55] Re
a = 0.4723 [0.1152] AU
Ag = 4819.27 [19063.26] [0.25 σ]
Teffp = 6236 [6147] K [0.94 σ]

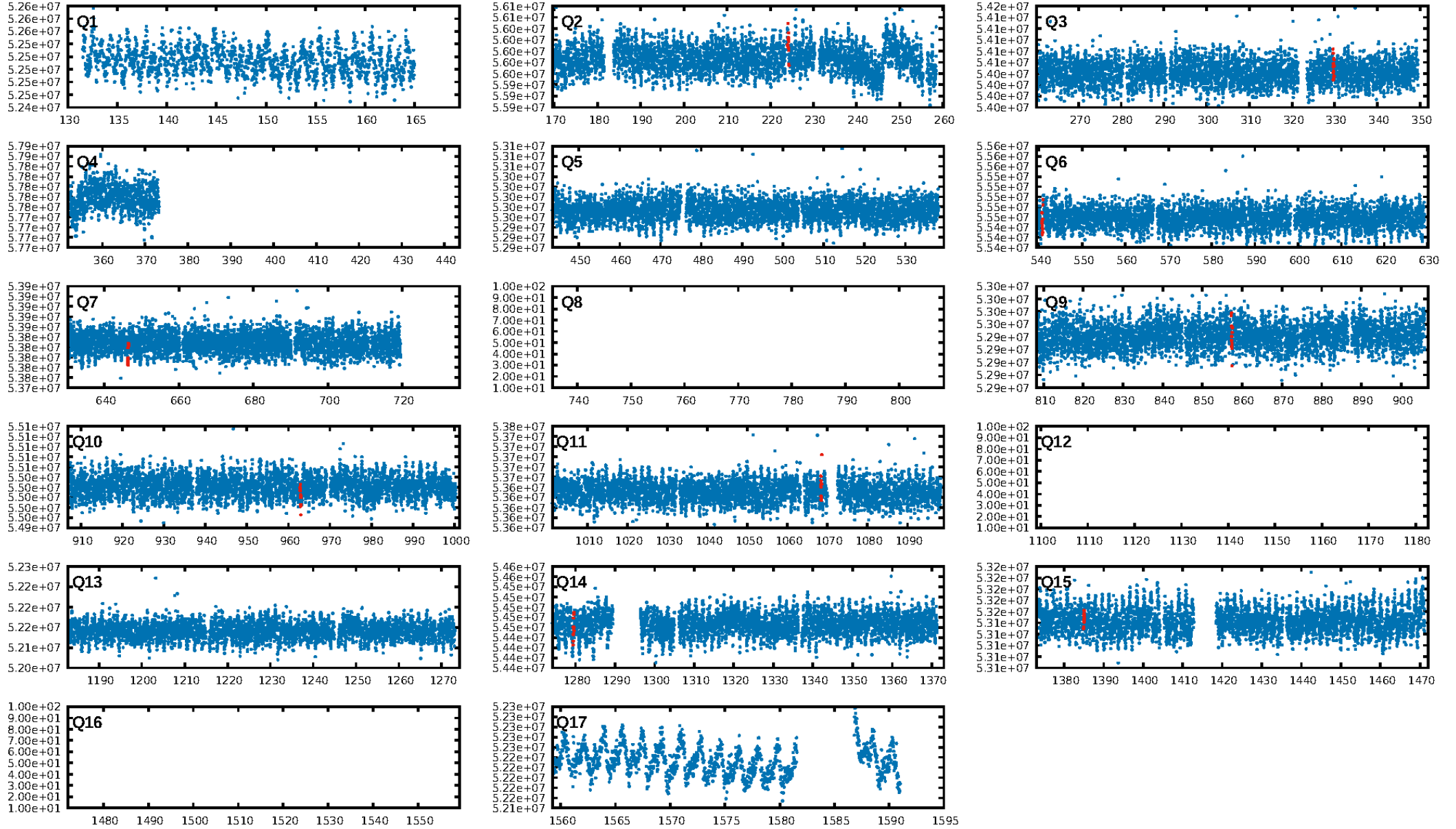
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [456.61 σ]
LongPeriod-sig: 100.0% [8.27 σ]
ModelChiSquare2-sig: 67.3%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 7.02e-12
RollingBand-fgt: 0.75 [6/8]
GhostDiagnostic-chr: -8.584
Centroid-sig: 22.0%
Centroid-so: 0.990 arcsec [0.85 σ]
OotOffset-rm: 0.211 arcsec [0.21 σ]
OotOffset-st: 3/3/0/0 [6]
KicOffset-rm: 0.250 arcsec [0.22 σ]
KicOffset-st: 3/3/0/0 [6]
DiffImageQuality-fgm: 0.50 [3/6]
DiffImageOverlap-fno: 0.00 [0/8]

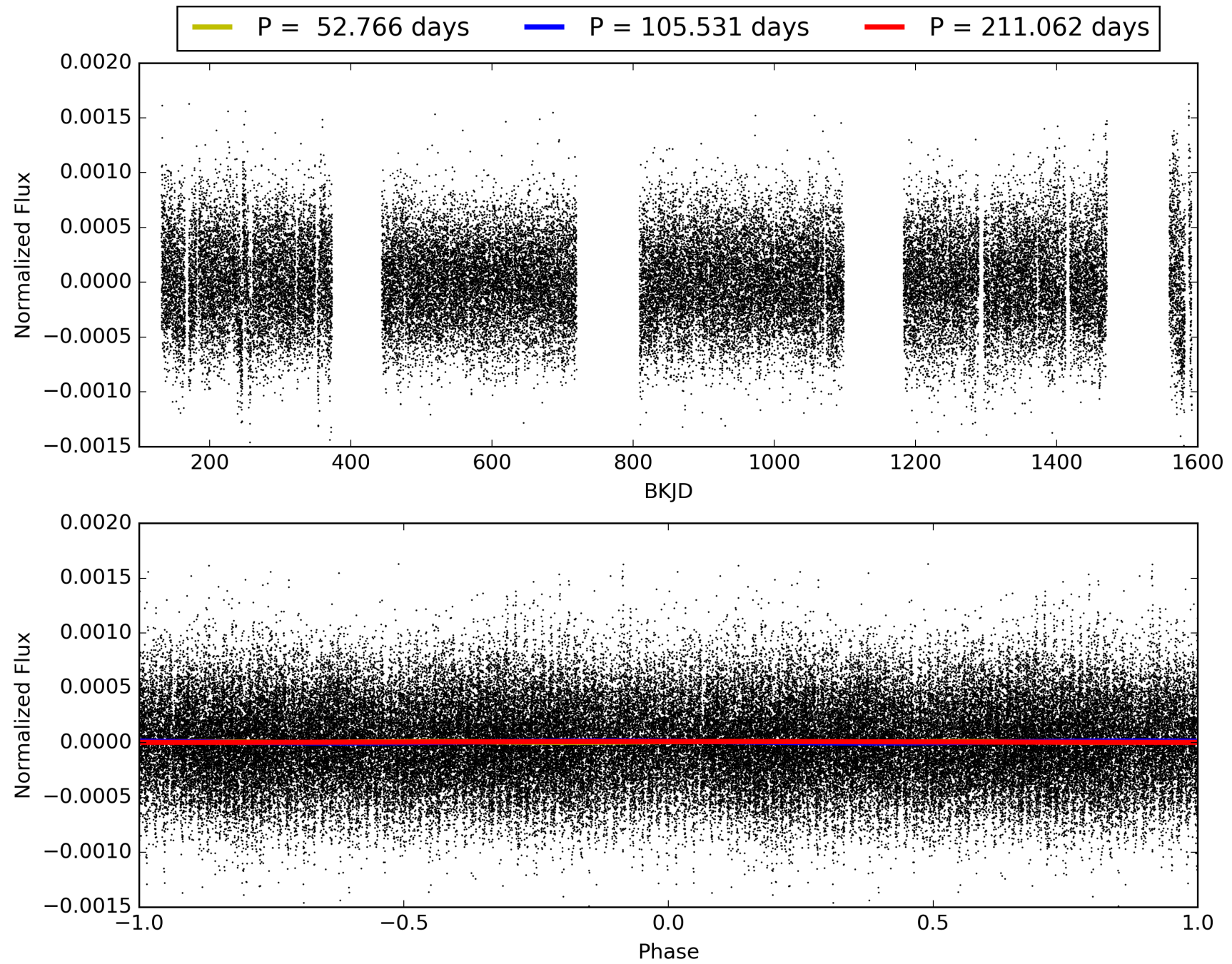
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 05:31:40 Z

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

TCE 011751814-02, PDC Light Curves

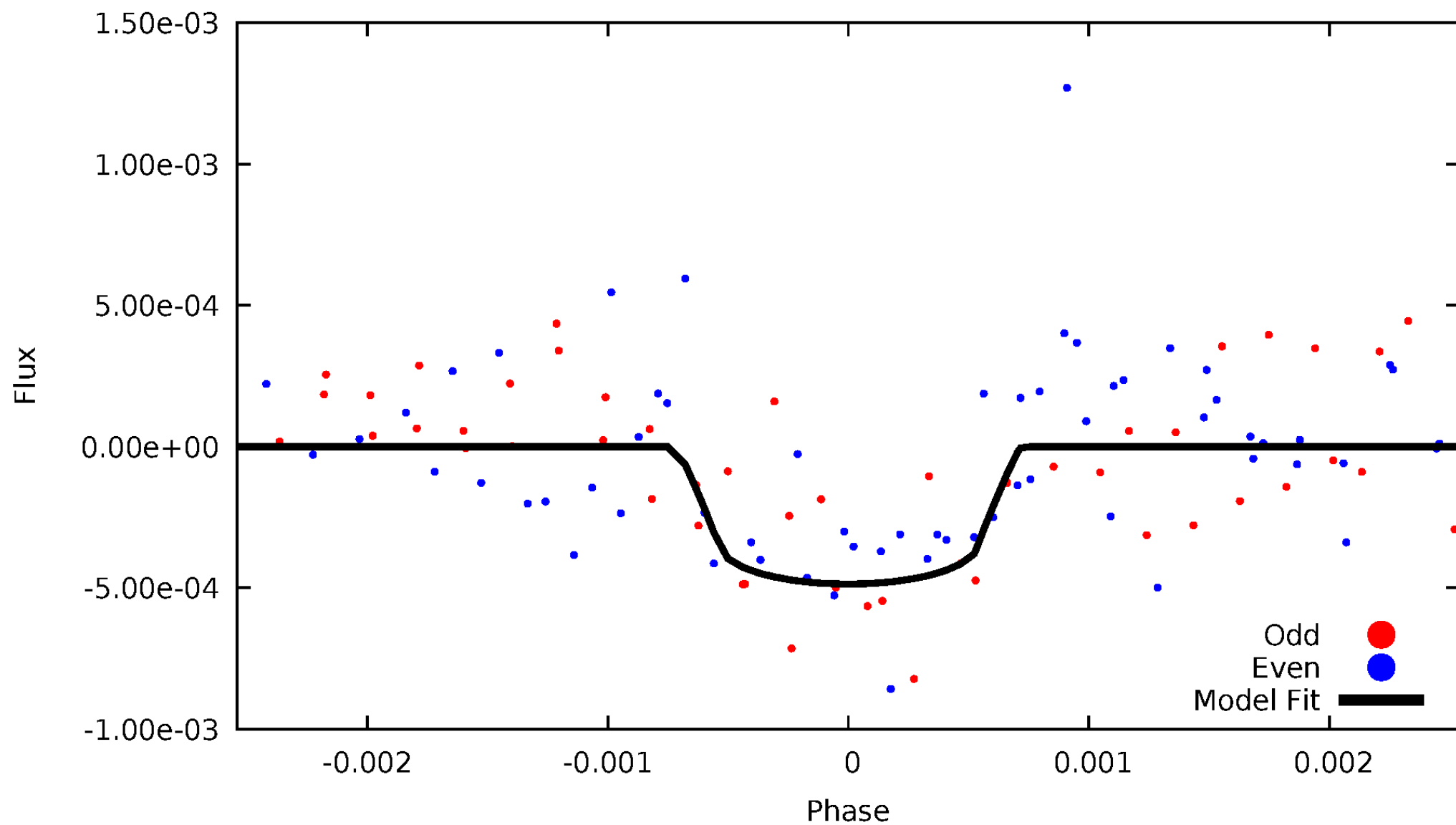


TCE 011751814-02



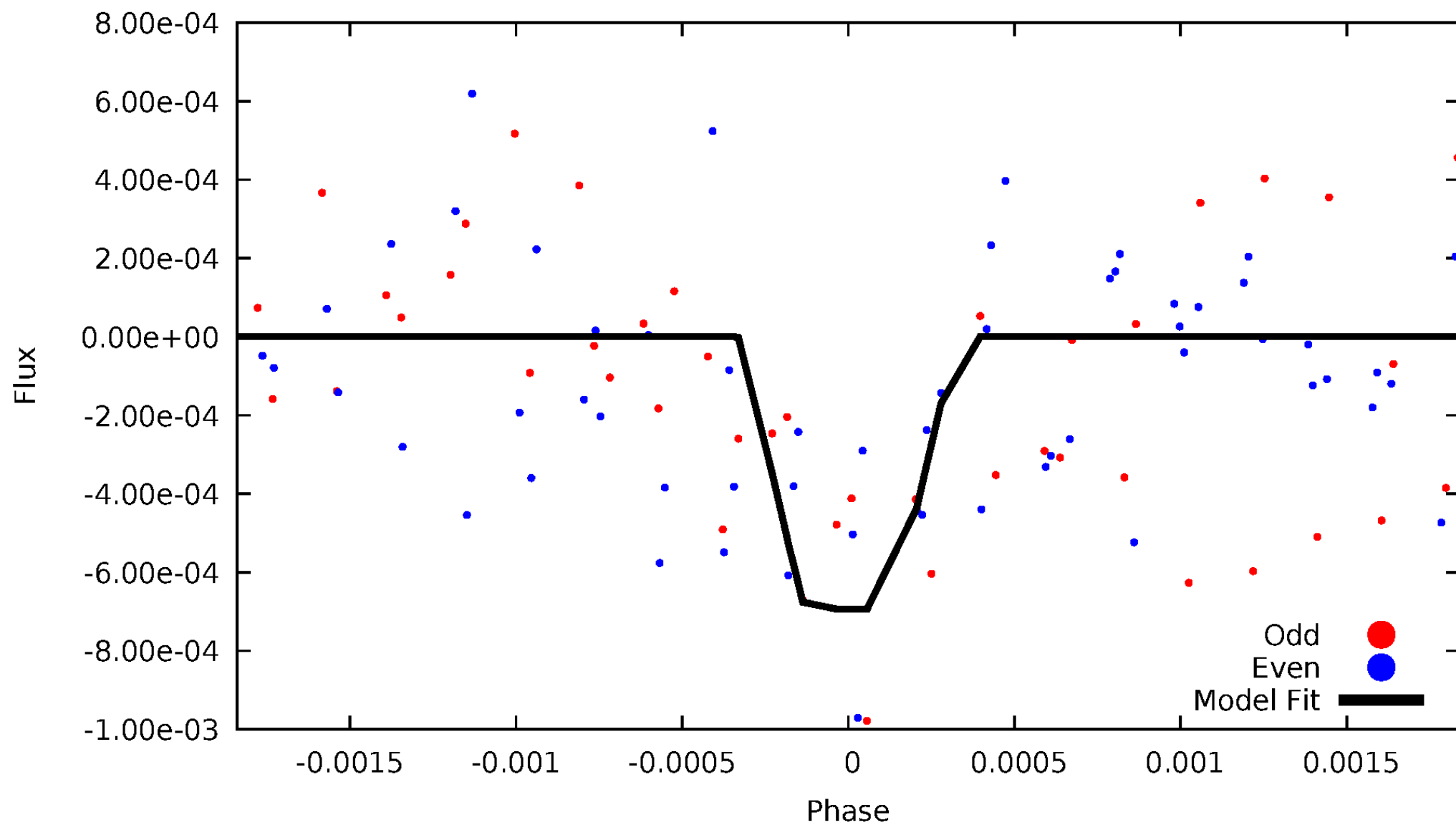
DV Odd/Even

TCE 011751814-02



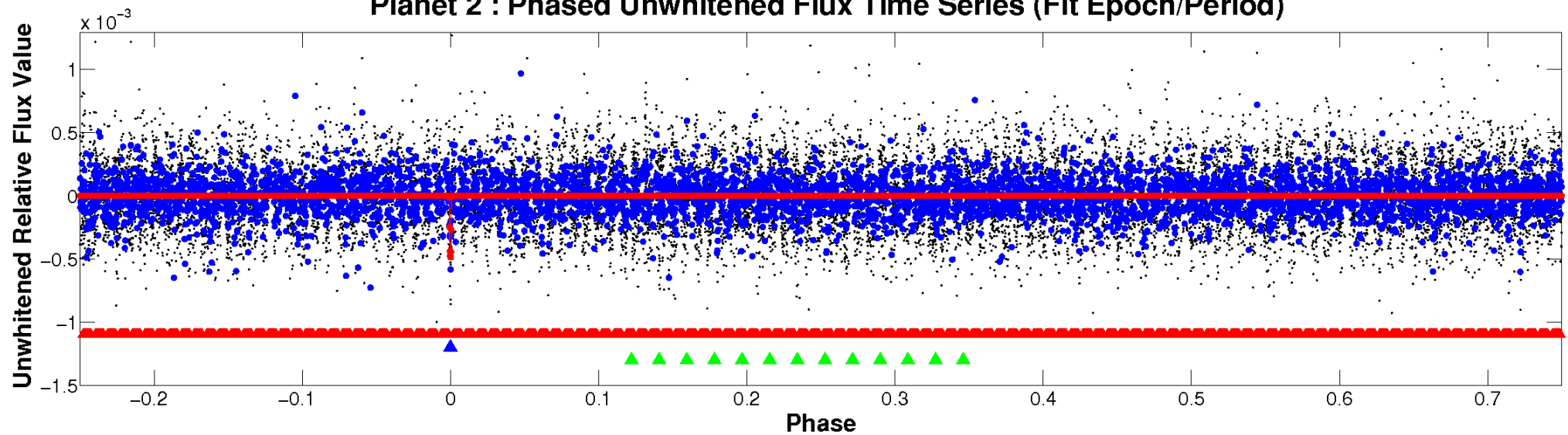
ALT Odd/Even

TCE 011751814-02

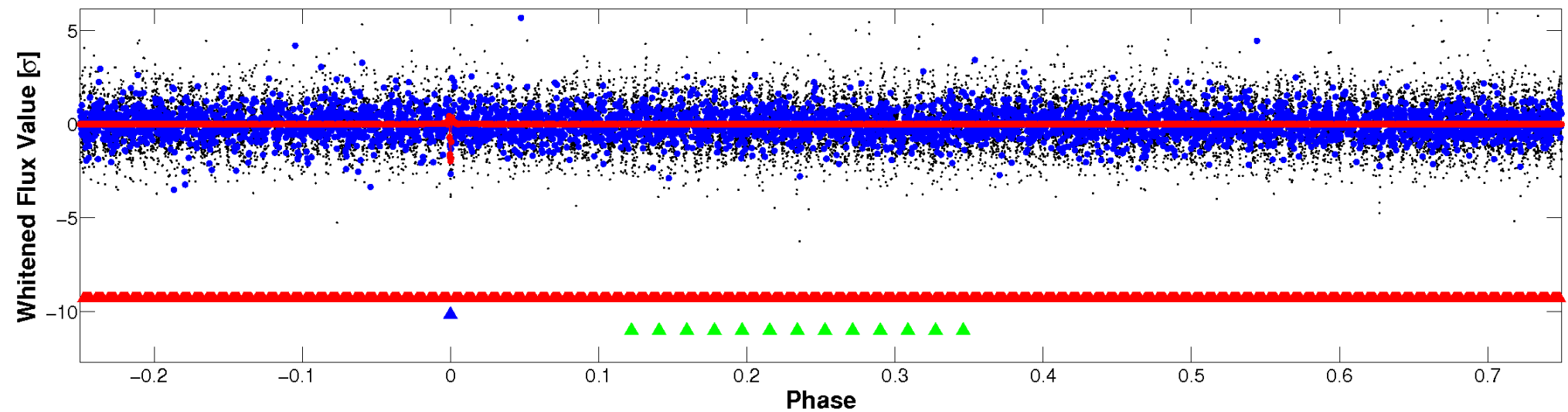


Non-Whitened Vs. Whitened Light Curve

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

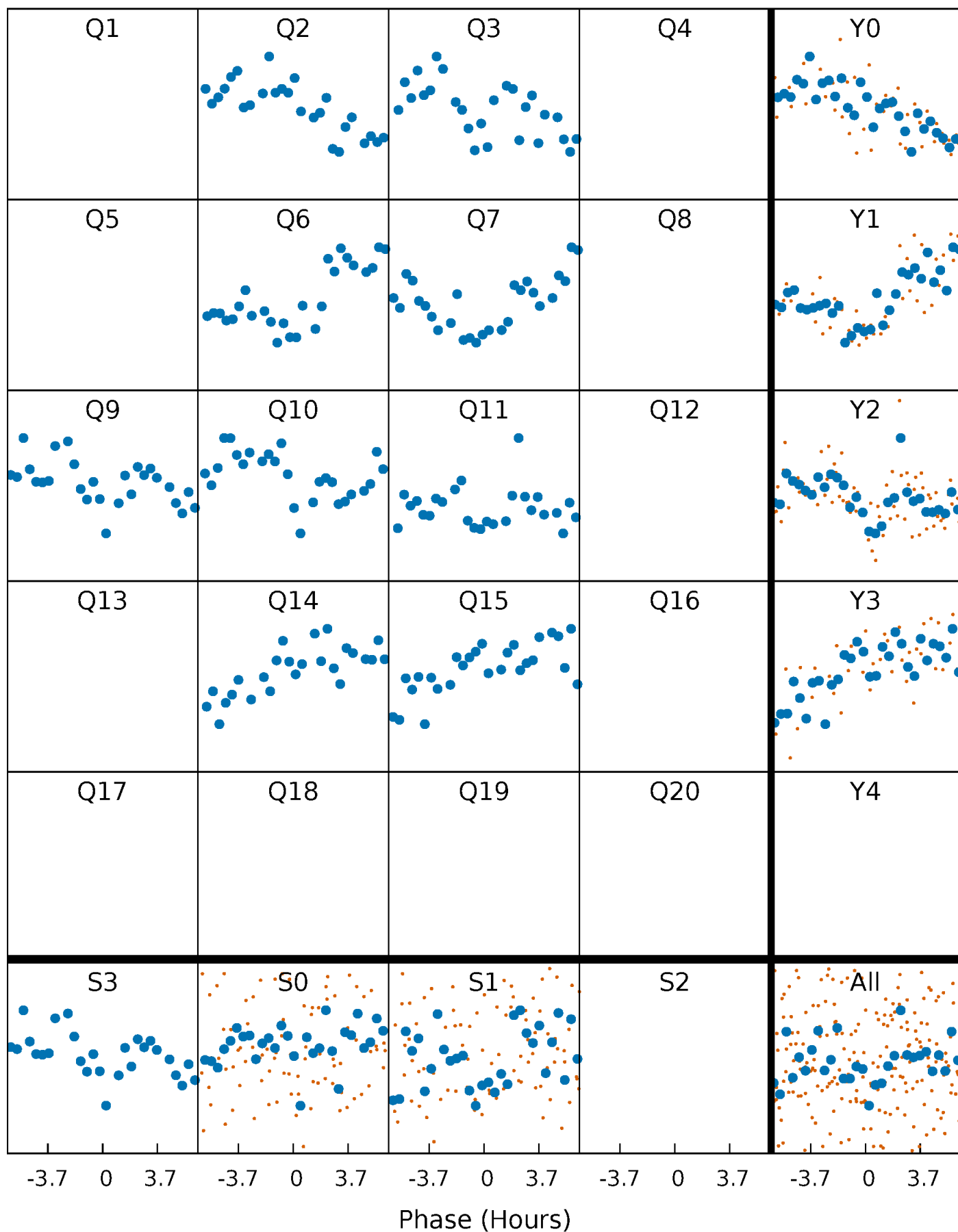


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



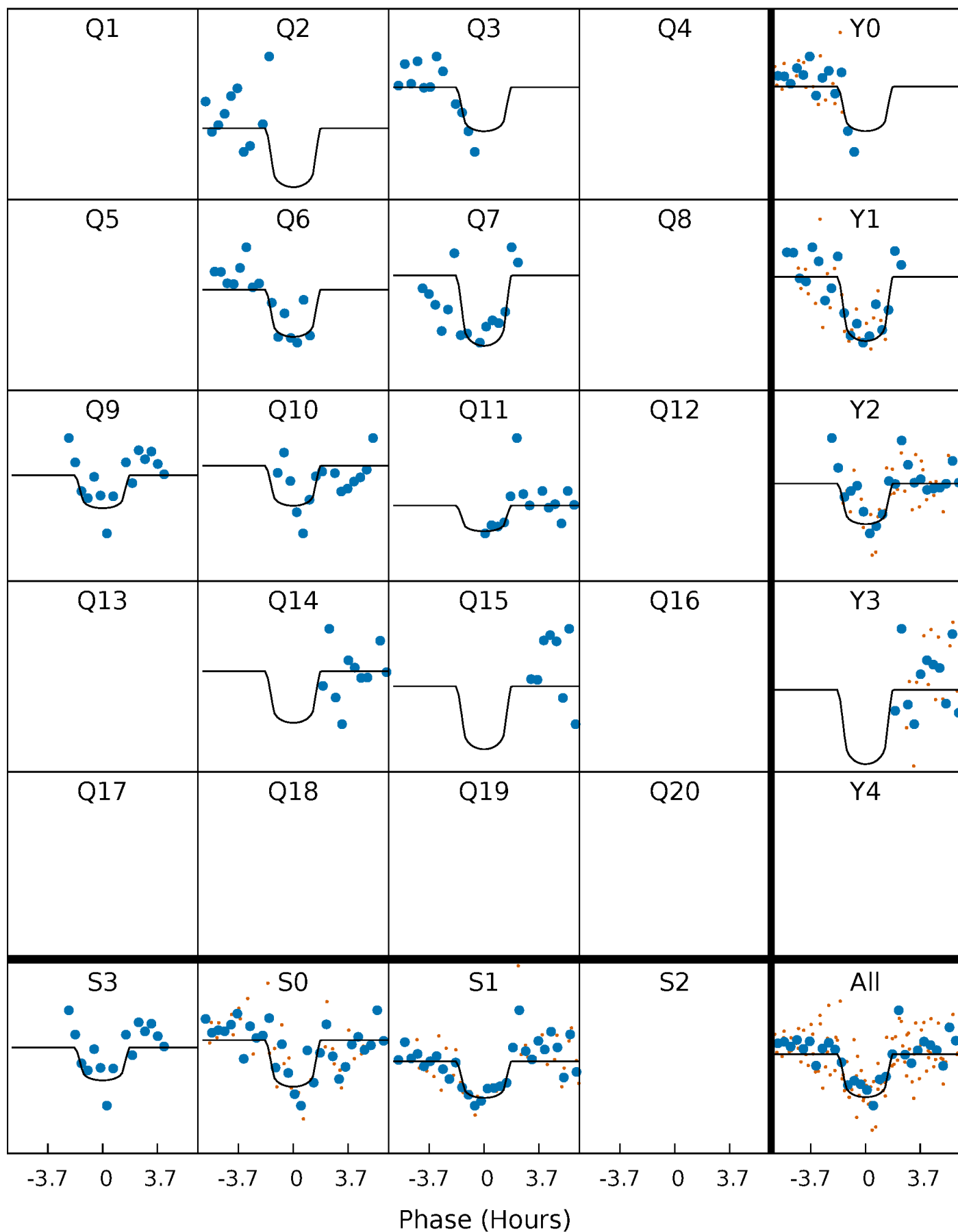
PDC Quarter-Phased Transit Curves

TCE 011751814-02 P=105.531038 Days $T_0=224.210646$ (BKJD)



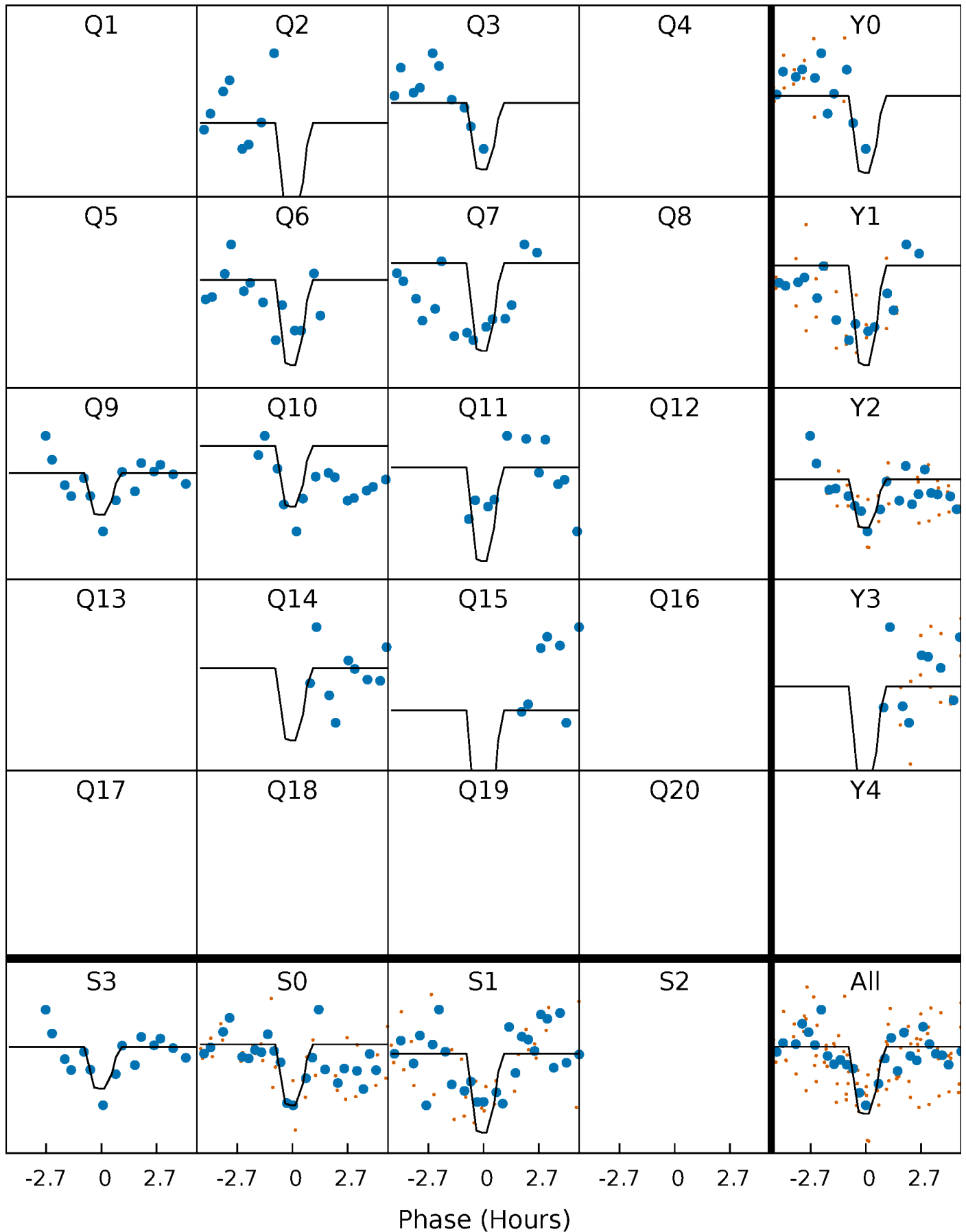
DV Quarter-Phased Transit Curves

TCE 011751814-02 P=105.531038 Days $T_0=224.210646$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

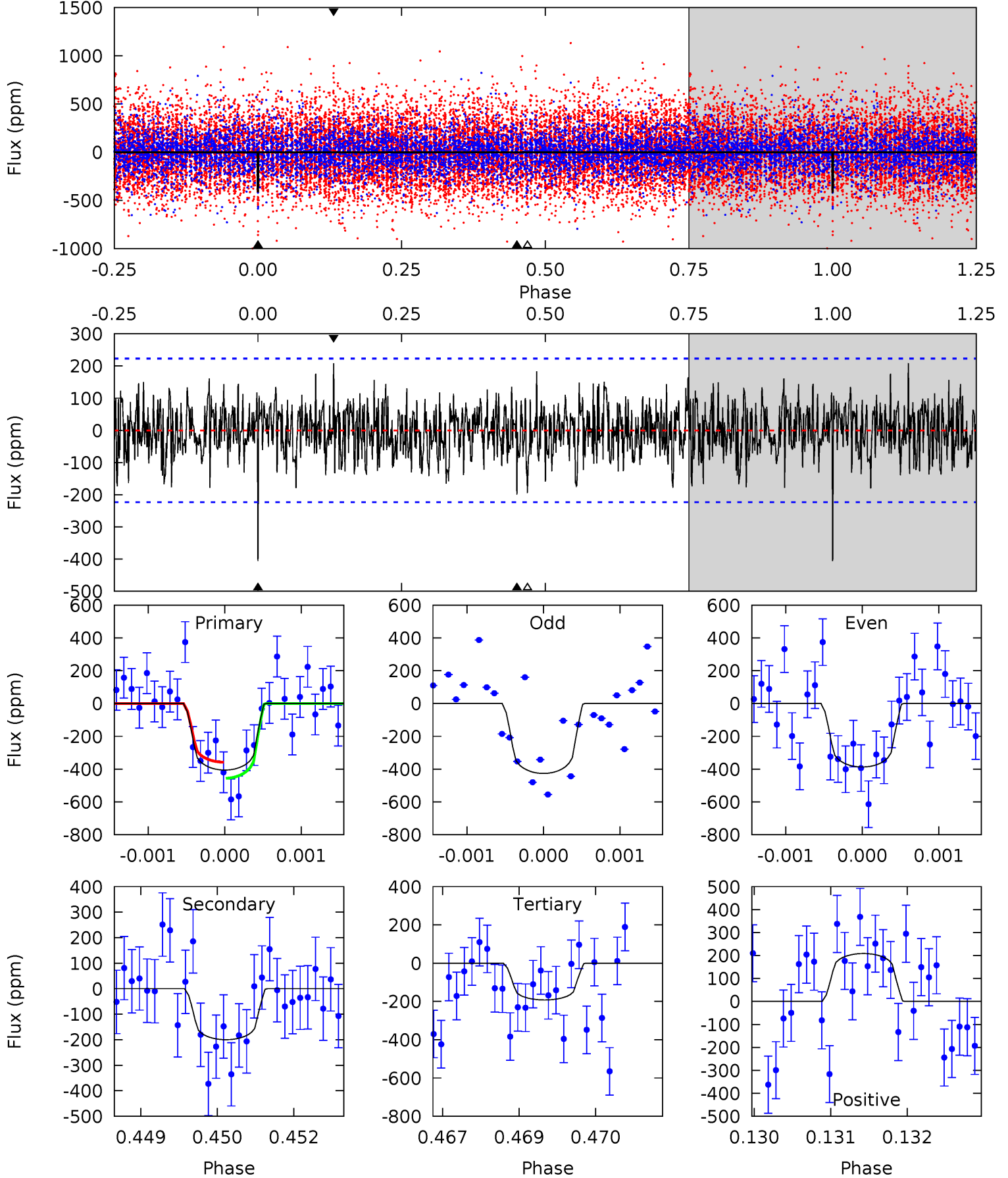
TCE 011751814-02 P=105.538377 Days $T_0=224.182148$ (BKJD)



DV Model-Shift Uniqueness Test

011751814-02, P = 105.531038 Days, E = 118.679608 Days

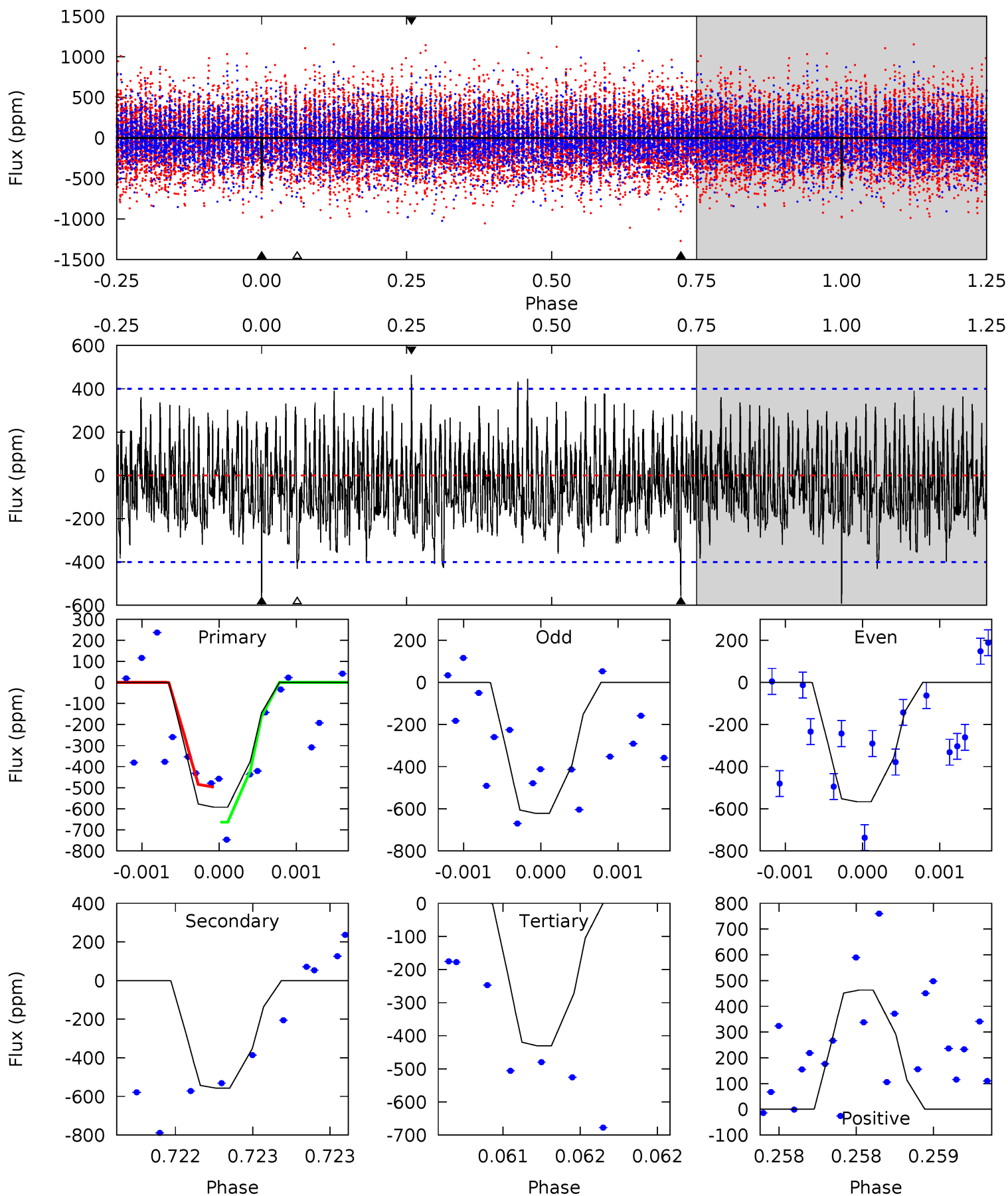
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.81	4.83	4.64	5.04	5.39	3.20	1.43	5.17	4.77	0.19	-0.21	0.47	1.05	0.34	1.18



Alt Model-Shift Uniqueness Test

011751814-02, P = 105.538377 Days, E = 118.643771 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.24	7.75	5.99	6.44	5.57	3.48	1.91	2.25	1.80	1.76	1.31	0.38	1.05	0.44	1.13



Stellar Parameters For KIC 011751814

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6726^{+161}_{-241}	$4.340^{+0.062}_{-0.188}$	$-0.080^{+0.250}_{-0.300}$	$1.257^{+0.371}_{-0.159}$	$1.269^{+0.187}_{-0.168}$	$0.900^{+0.295}_{-0.457}$
	+2%/-4%	+1%/-4%	+312%/-375%	+30%/-13%	+15%/-13%	+33%/-51%
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 011751814-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-200 ± 41	$4.96^{+5.41}_{-3.10}$	686^{+43}_{-33}	4428^{+2474}_{-971}	949^{+5953}_{-726}
Alt.	-557 ± 72	$5.74^{+4.90}_{-3.68}$	688^{+48}_{-33}	5218^{+3877}_{-1146}	2035^{+14090}_{-1441}

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 $A_{obs} \gg 1.0$

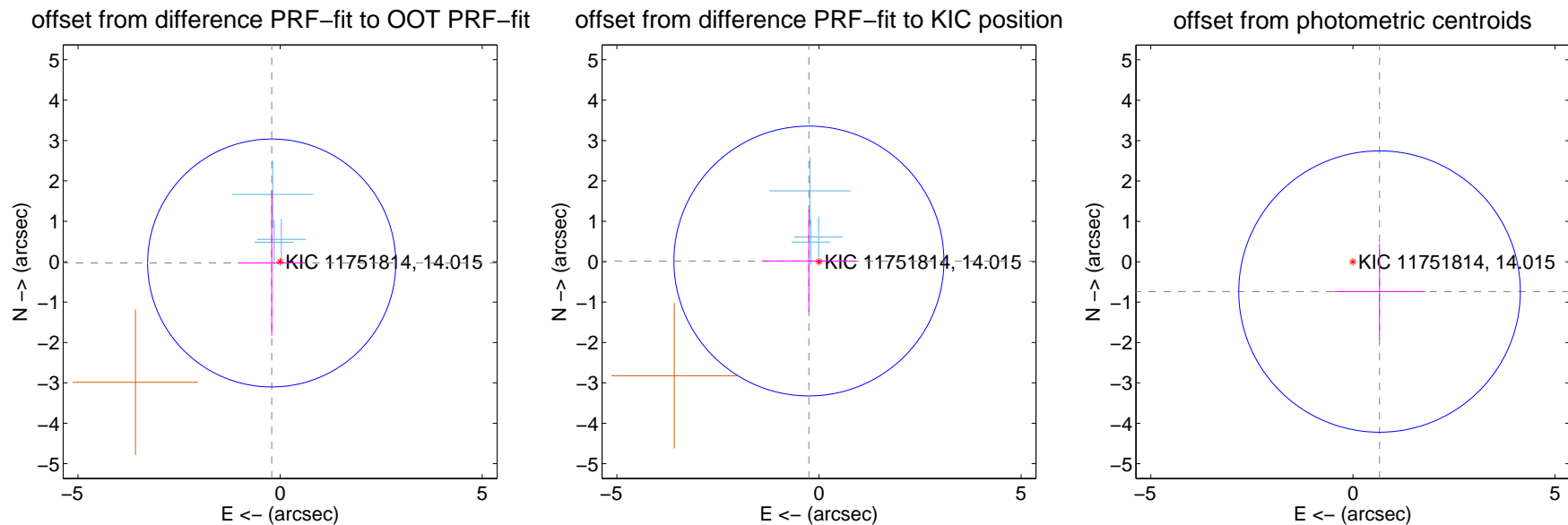
DV Centroid Data

Supplemental centroid analysis for 011751814-02. Kepler magnitude: 14.02. Transit SNR 9.60

There are 3 quarters with good PRF difference image offsets

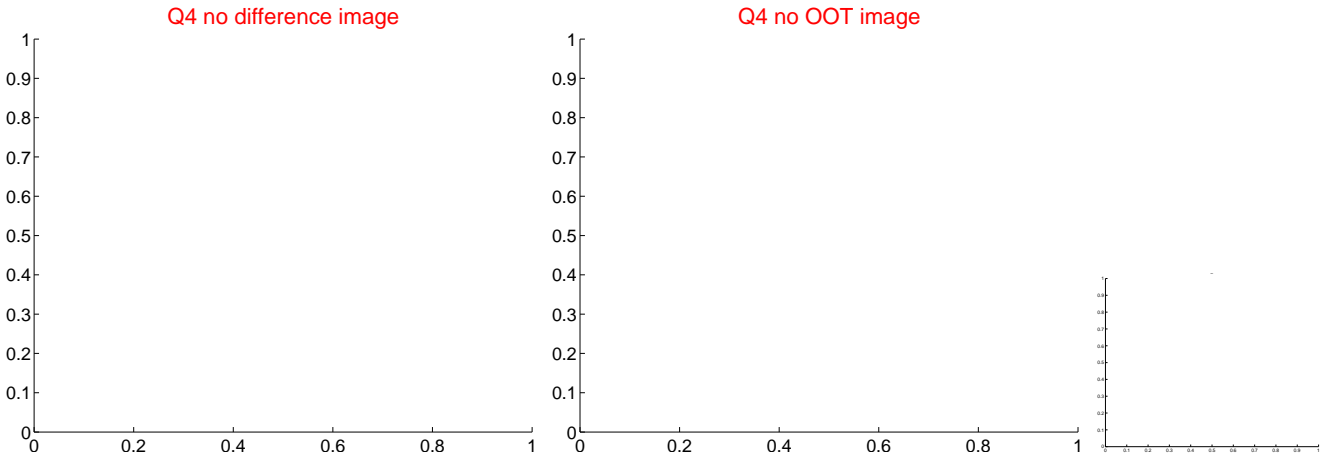
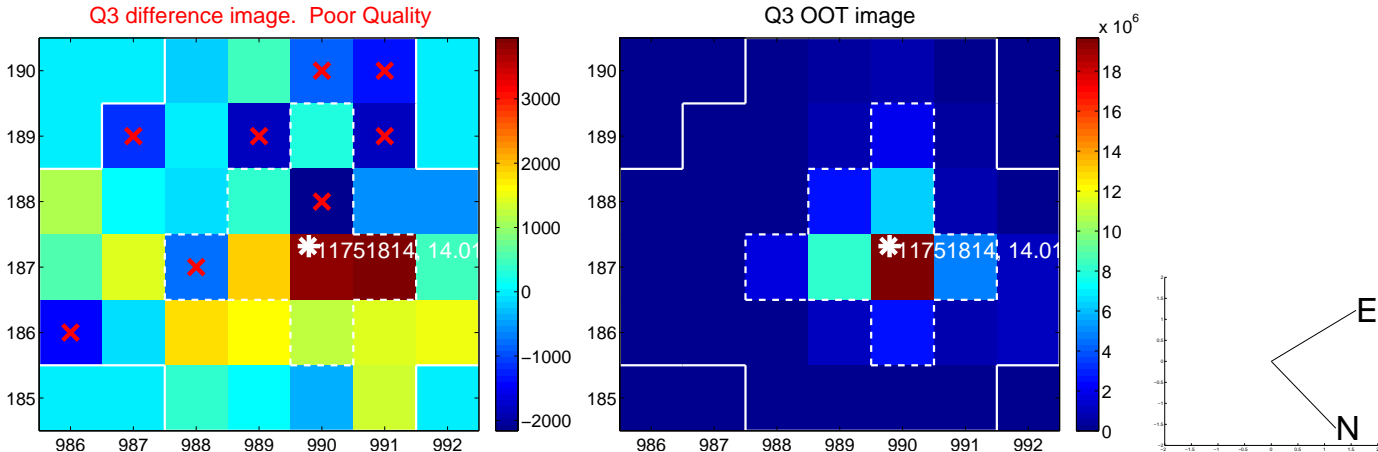
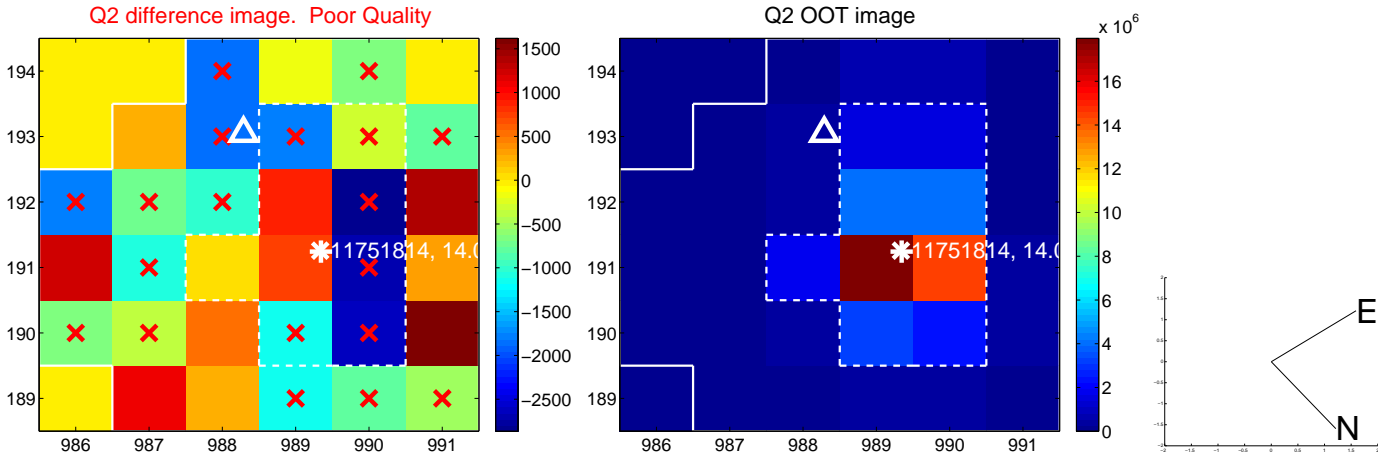
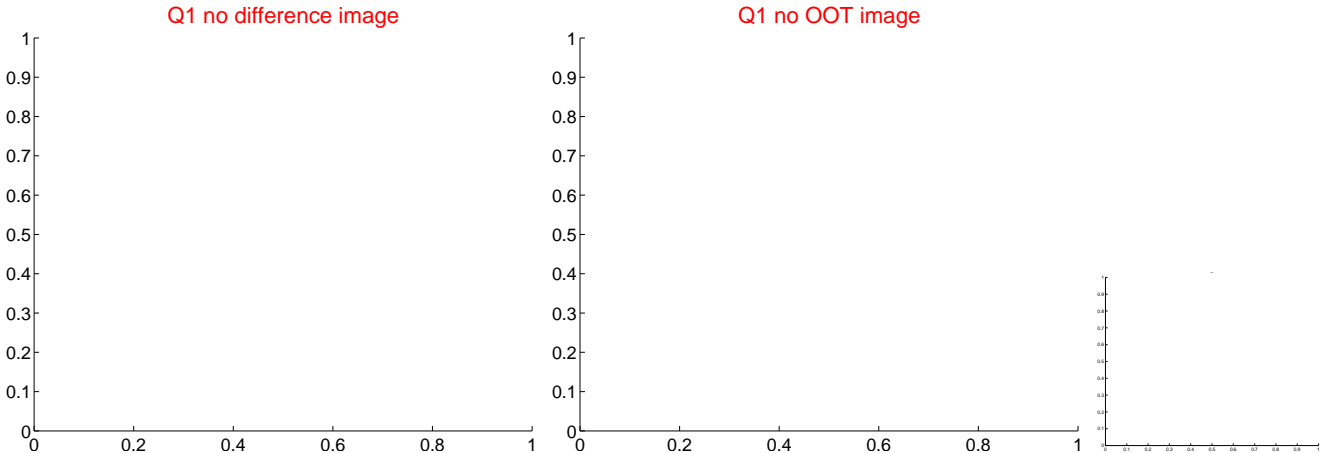
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.211 ± 1.023	0.21	0.208 ± 0.837	-0.032 ± 1.804
PRF-fit source offset from KIC position	0.250 ± 1.113	0.22	0.249 ± 1.163	0.017 ± 1.266
photometric centroid source offset	0.99 ± 1.16	0.85	-0.66 ± 1.13	-0.74 ± 1.18



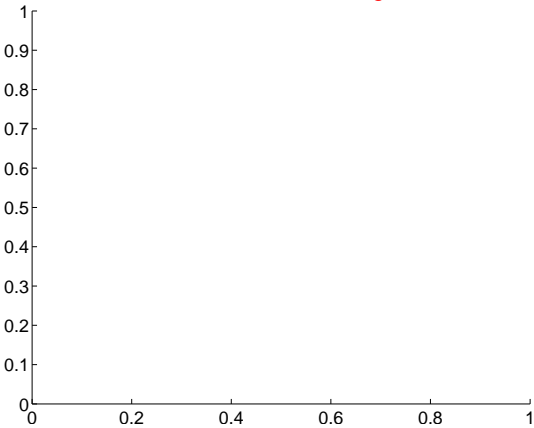
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

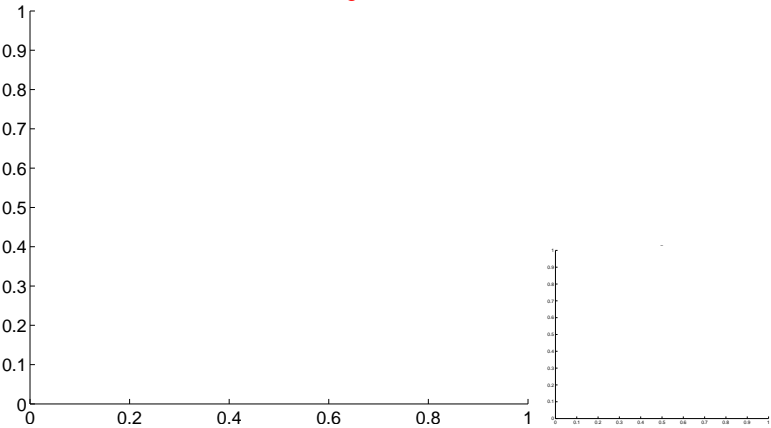


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

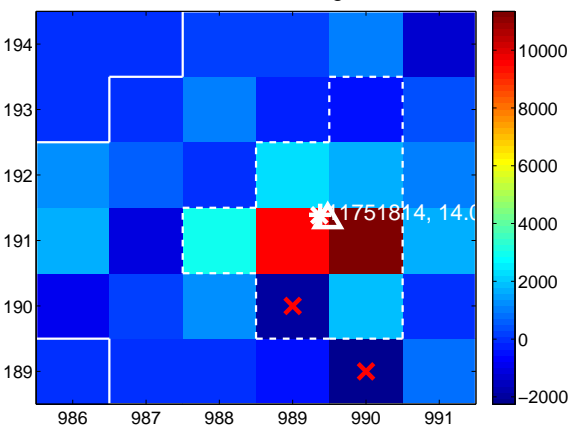
Q5 no difference image



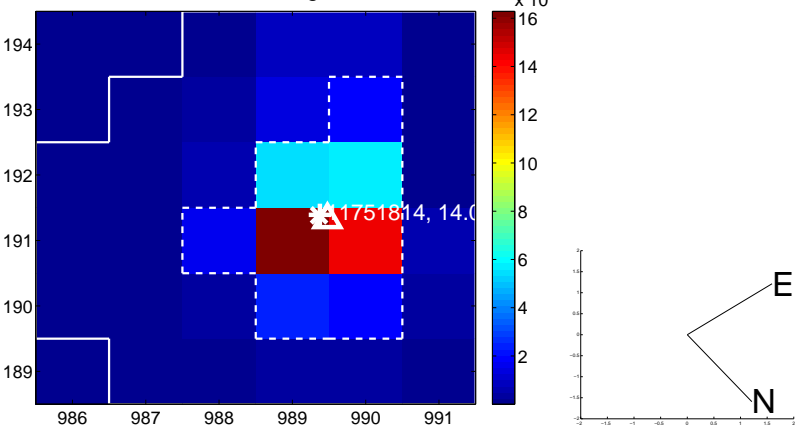
Q5 no OOT image



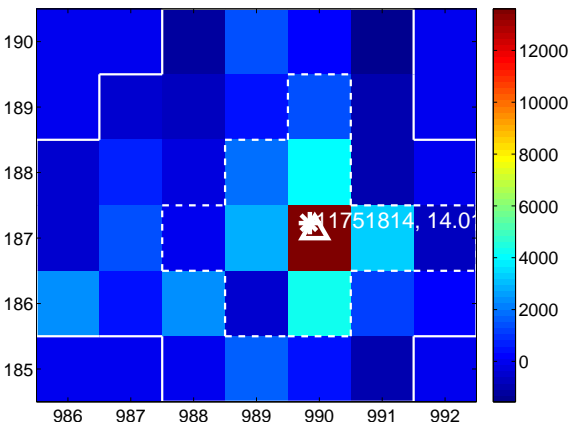
Q6 difference image



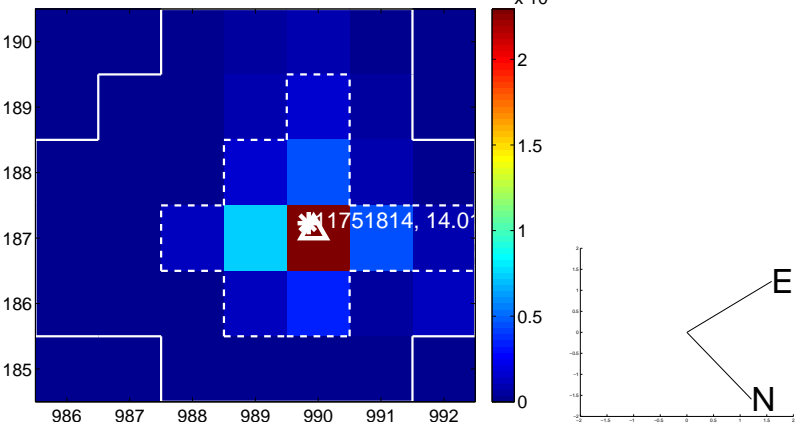
Q6 OOT image



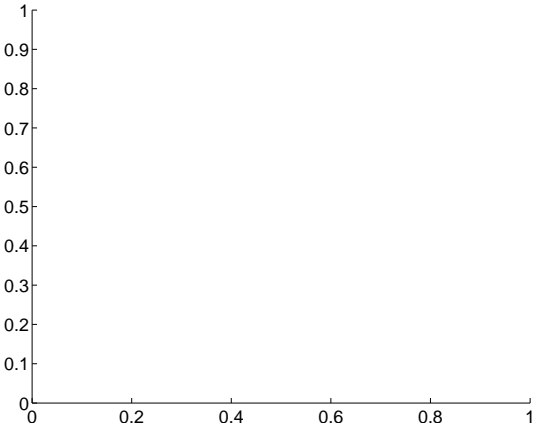
Q7 difference image



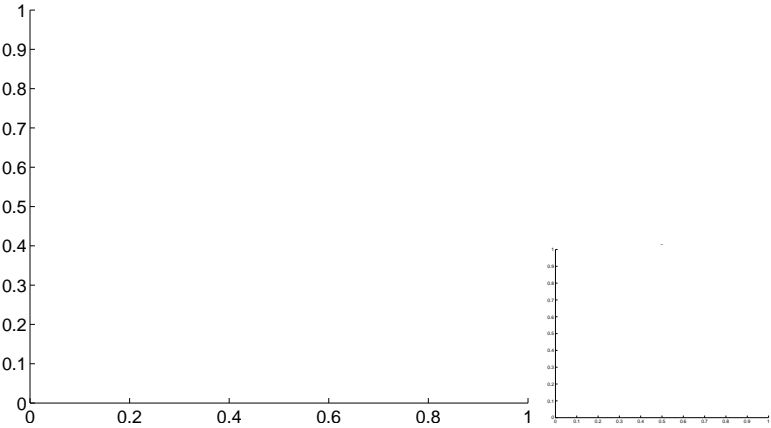
Q7 OOT image



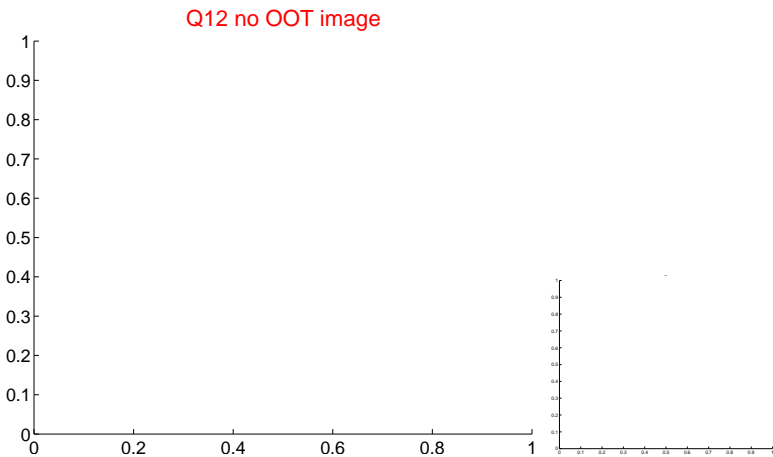
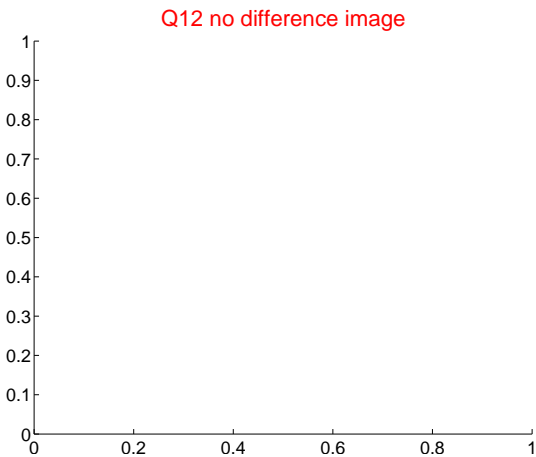
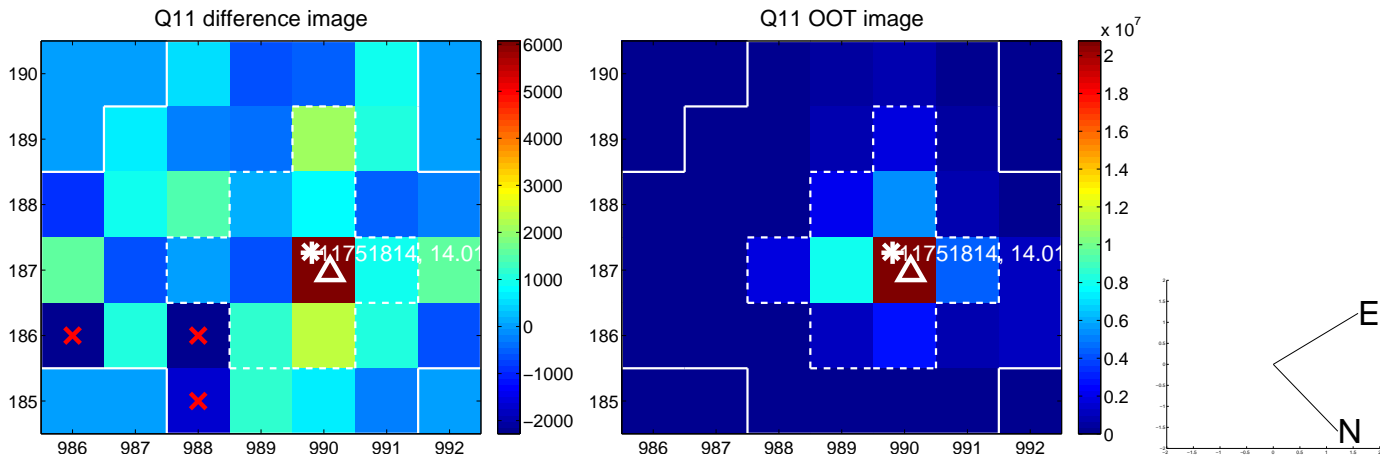
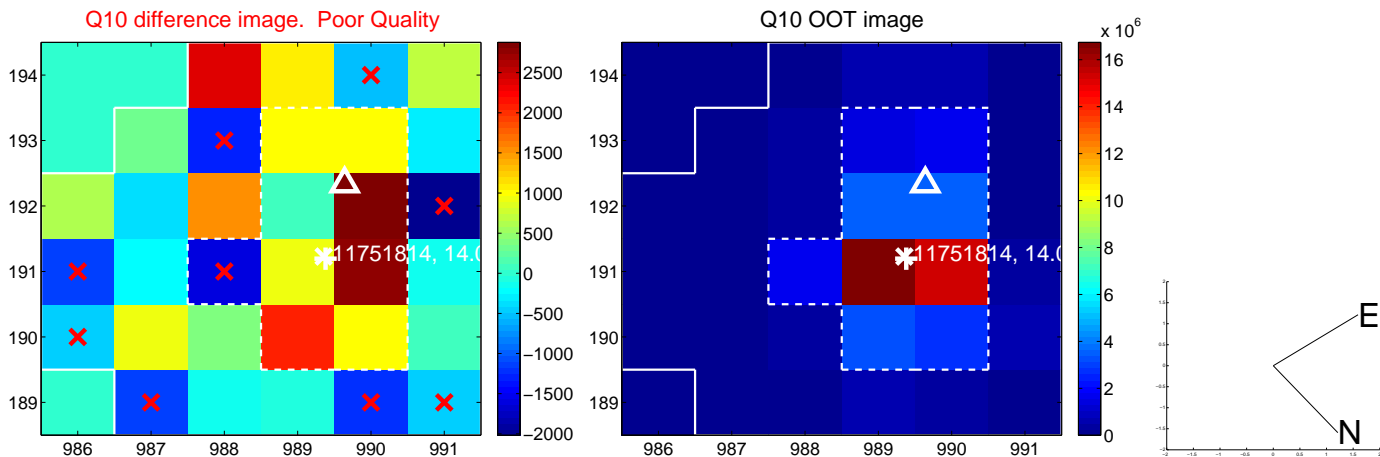
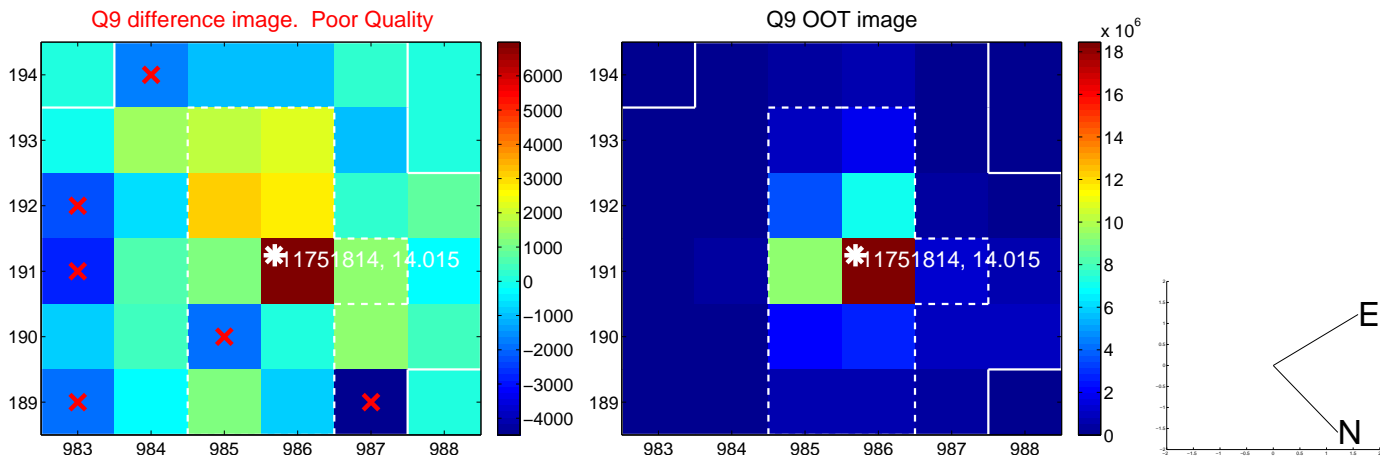
Q8 no difference image



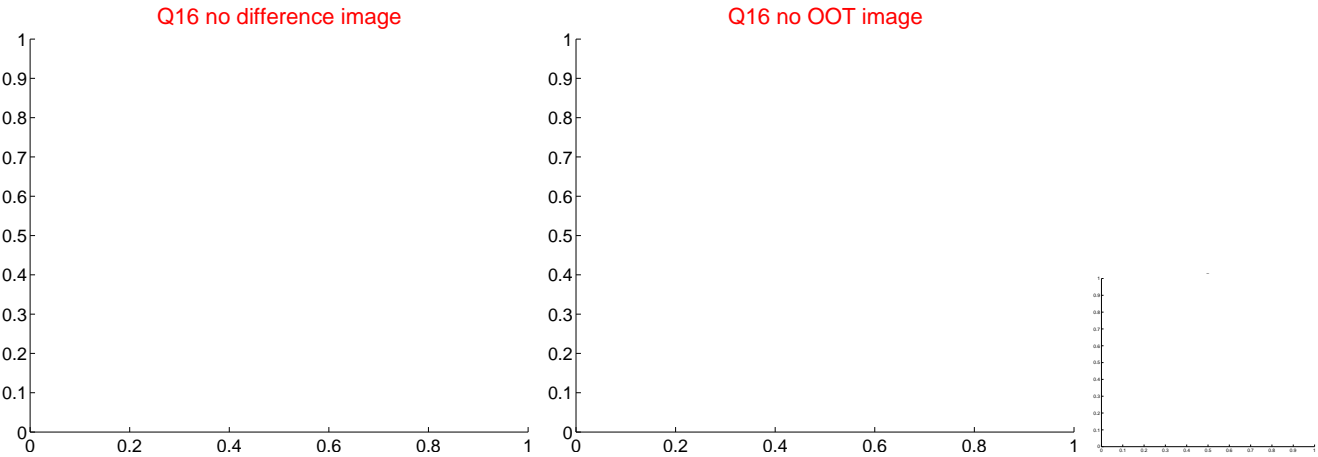
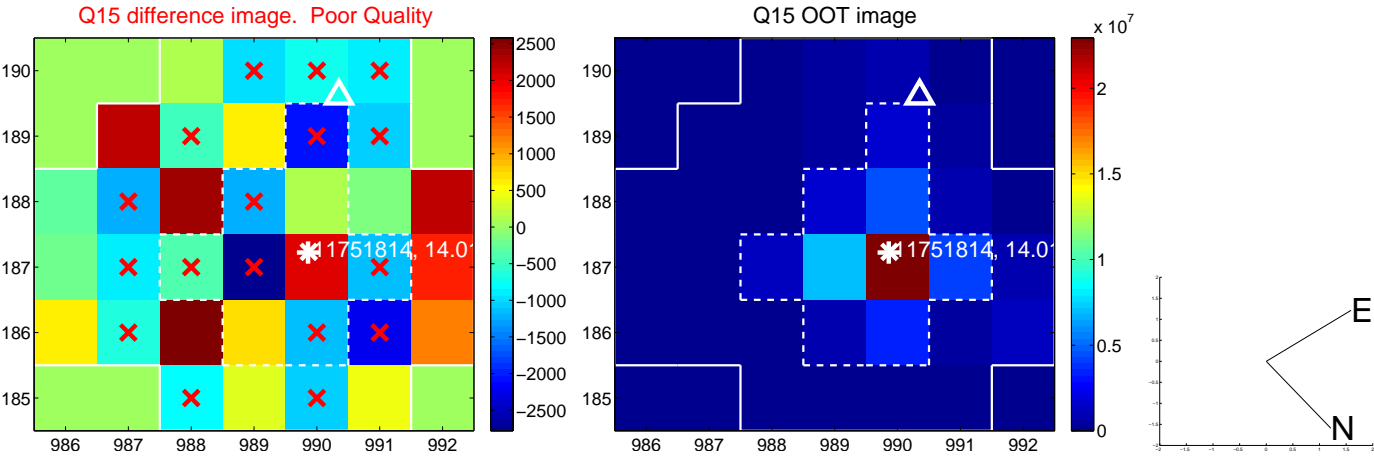
Q8 no OOT image



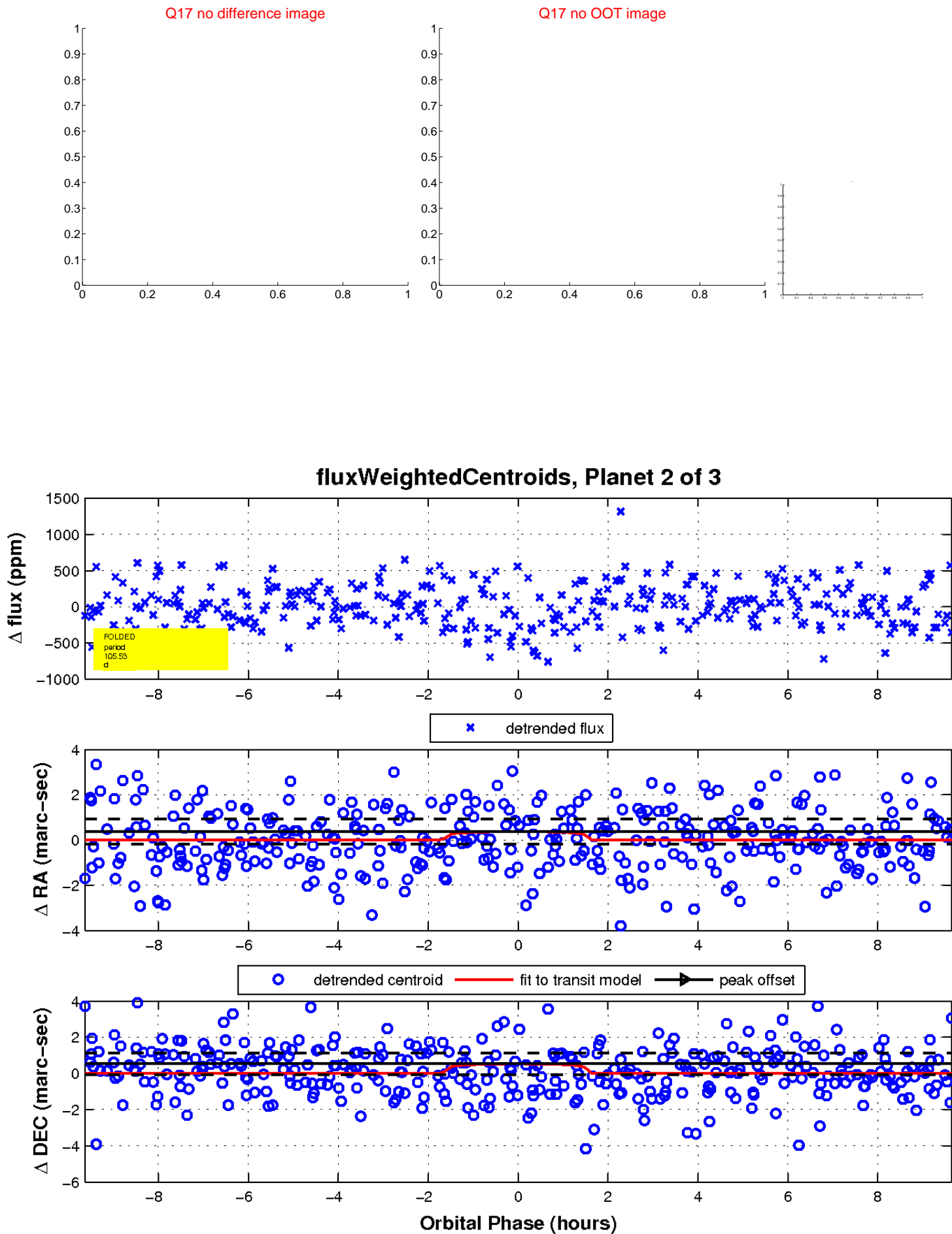
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

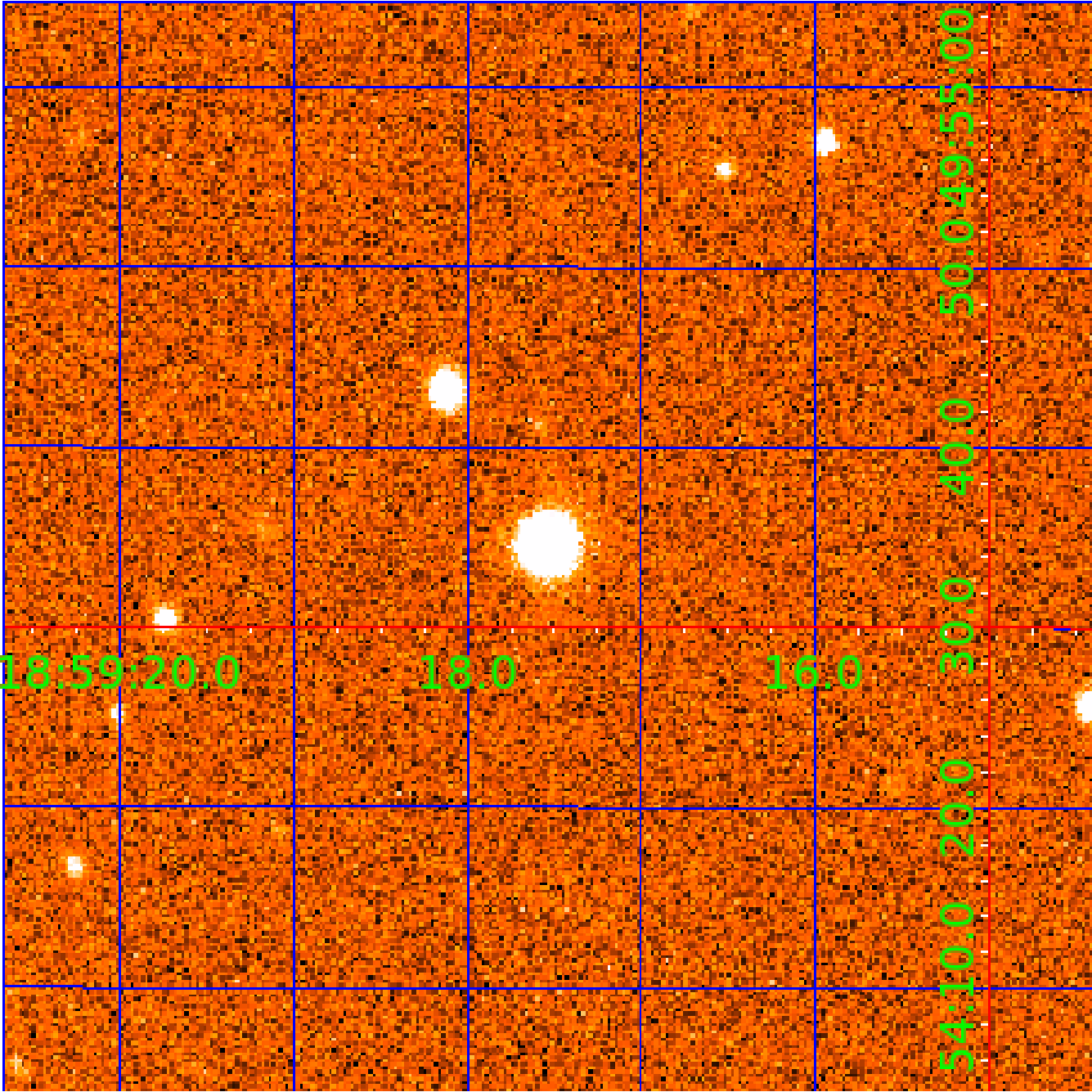


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011751814

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})
011751814-01	OBS	No	0.879775	132.067925	0.8	4.460	7.9	0.2	1.26	6726	0.13	7685.11
011751814-02	OBS	No	105.531038	224.210646	486.3	3.219	8.5	9.6	1.26	6726	2.79	12.99
011751814-03	OBS	No	107.499758	237.105930	366.4	4.717	7.2	7.3	1.26	6726	2.64	12.68

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011751814-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
011751814-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
011751814-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

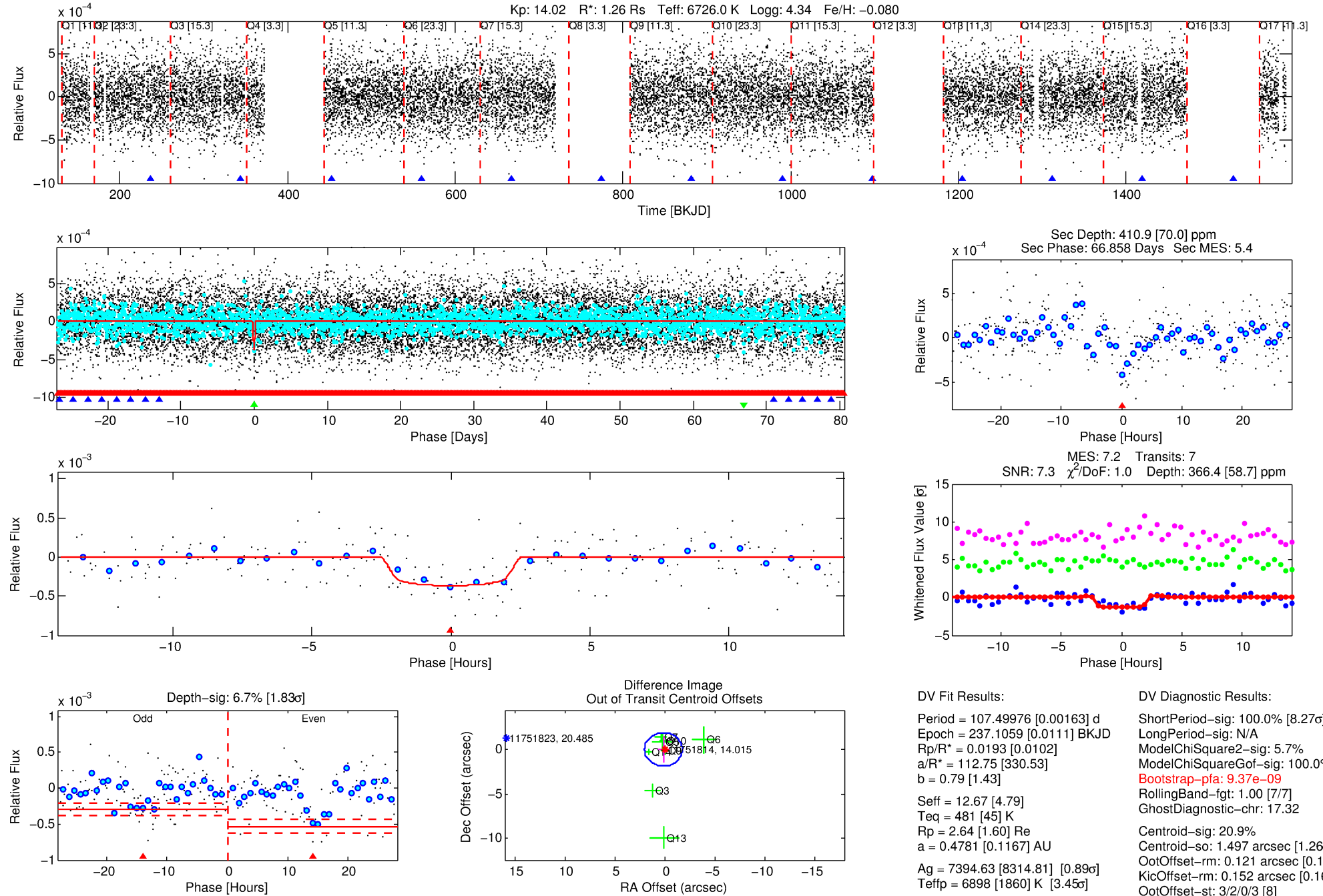
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011751814-03

No Significant Match Found

DV One-Page Summary

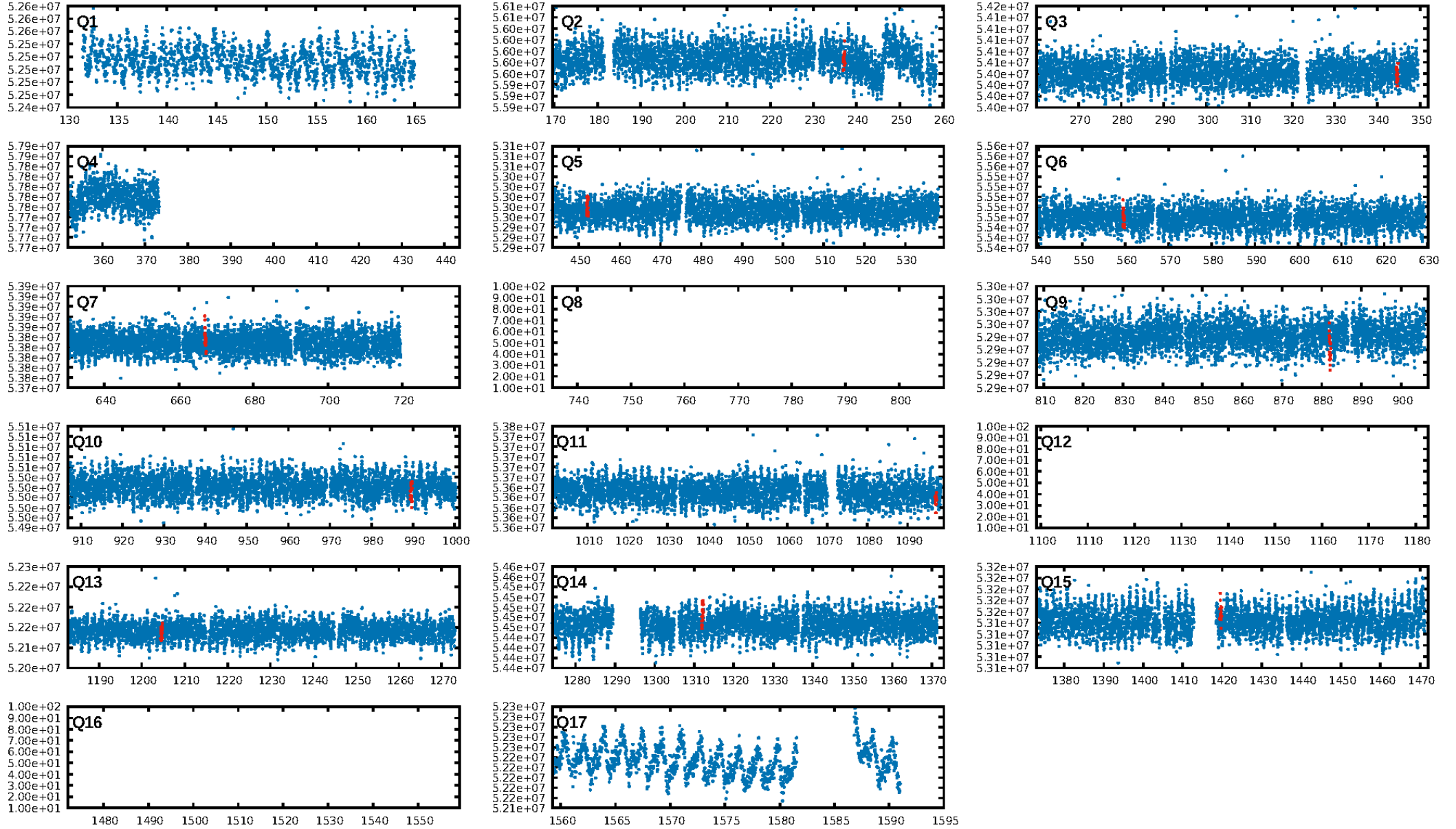
KIC: 11751814 Candidate: 3 of 3 Period: 107.500 d



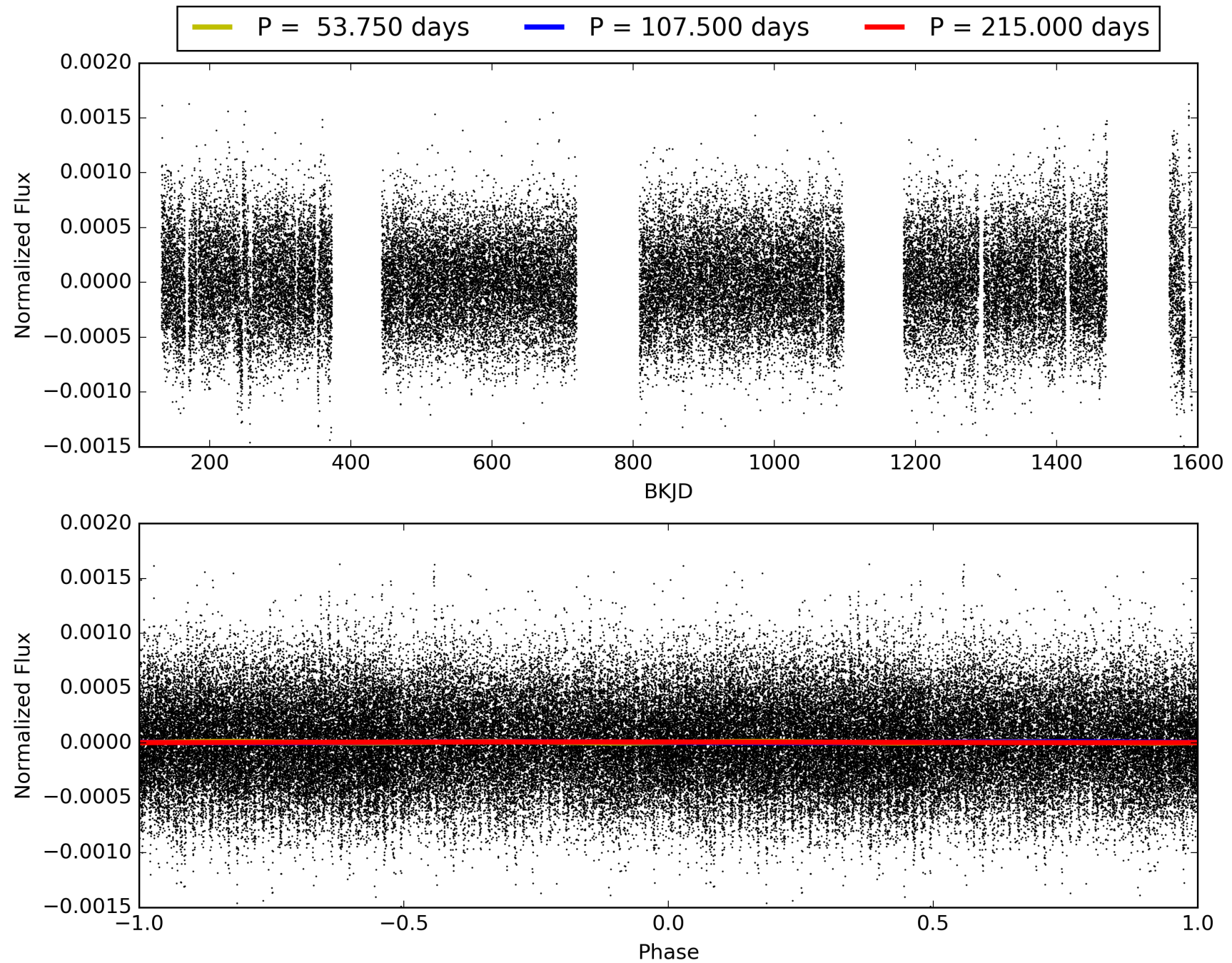
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 05:31:45 Z

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

TCE 011751814-03, PDC Light Curves

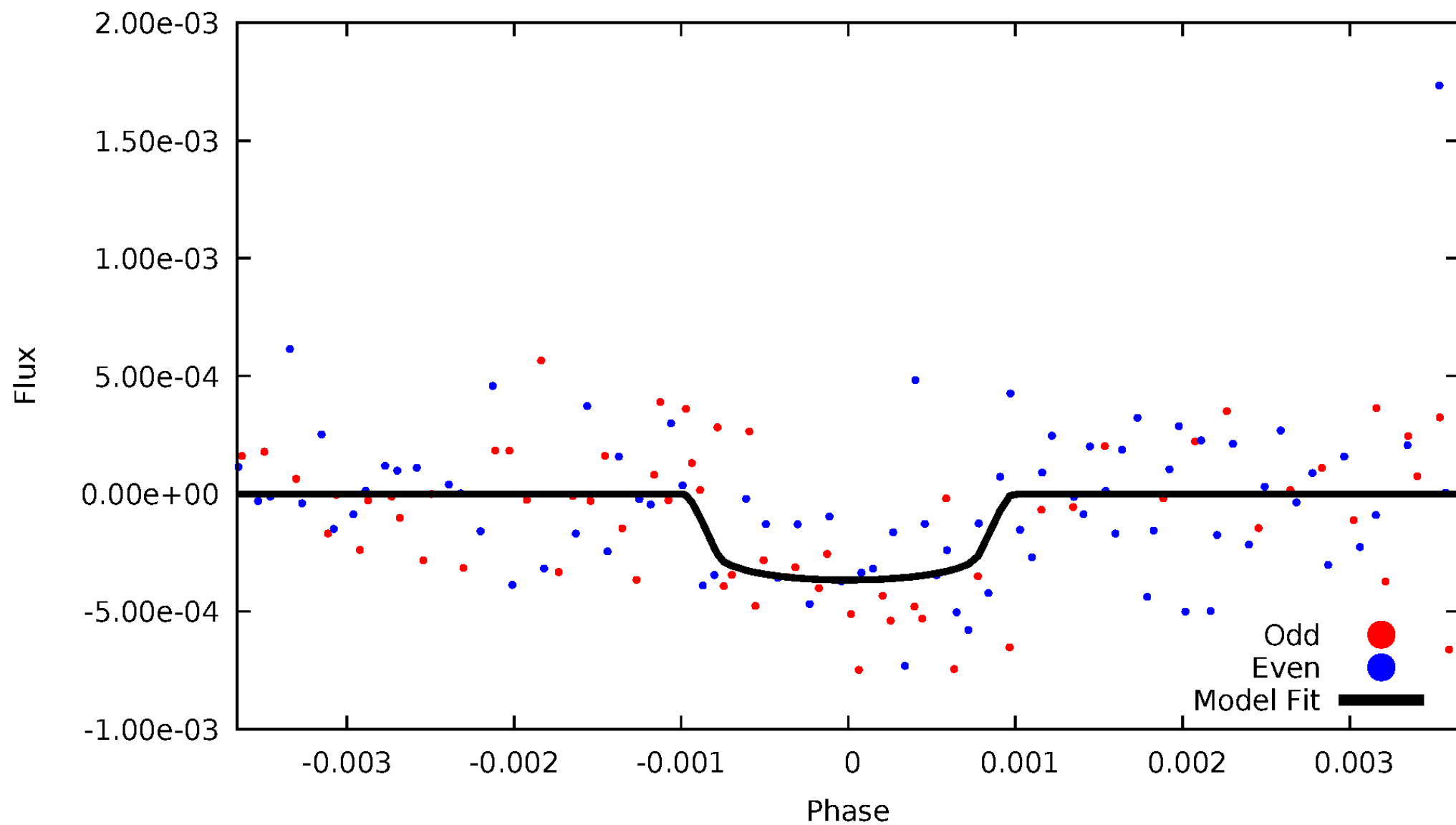


TCE 011751814-03



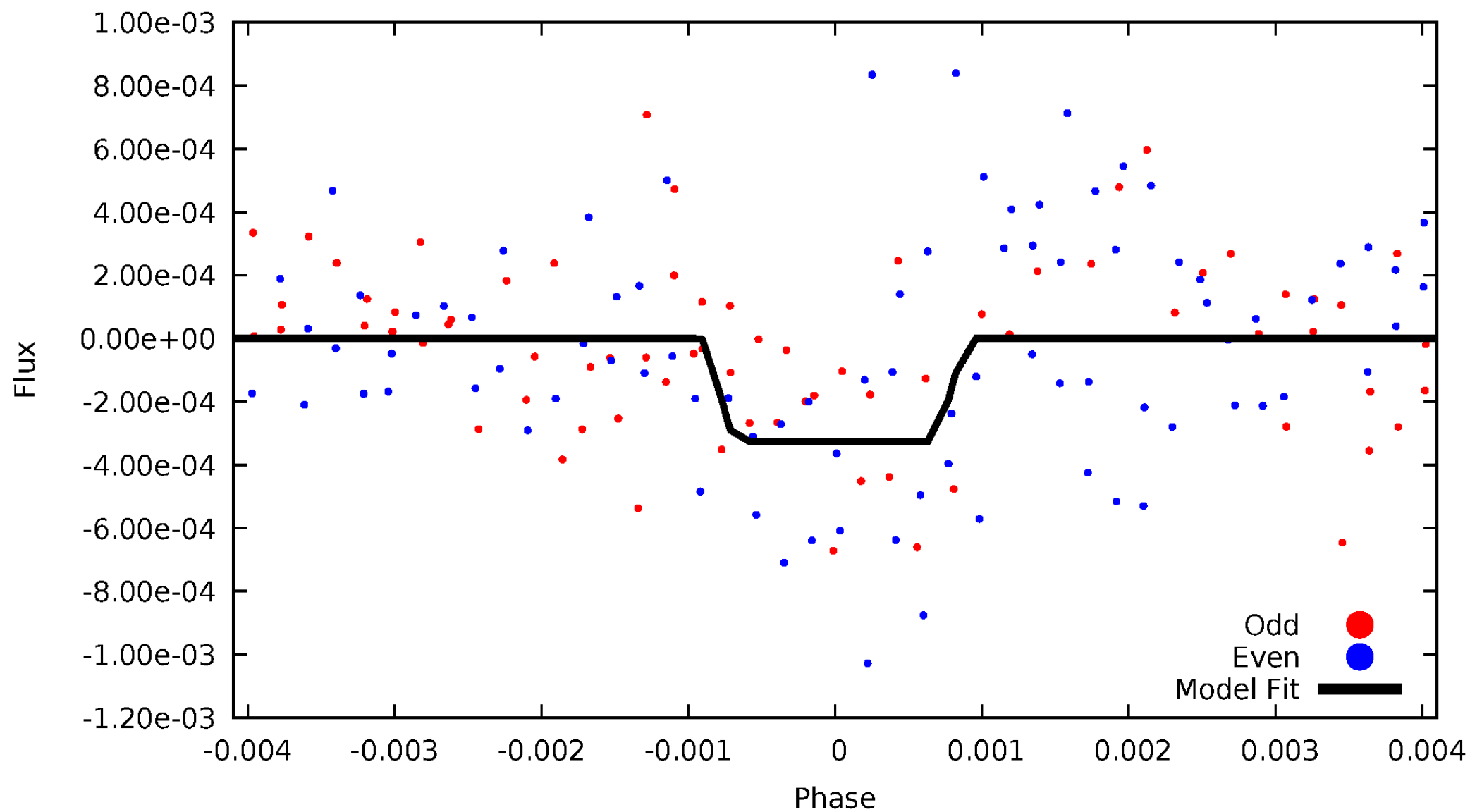
DV Odd/Even

TCE 011751814-03

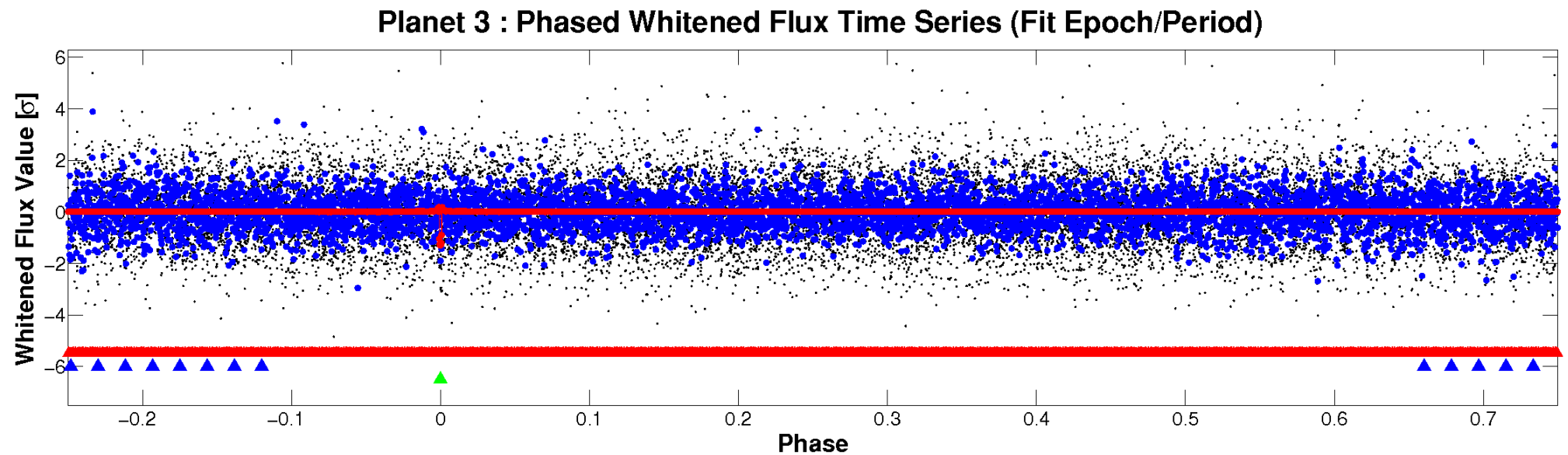
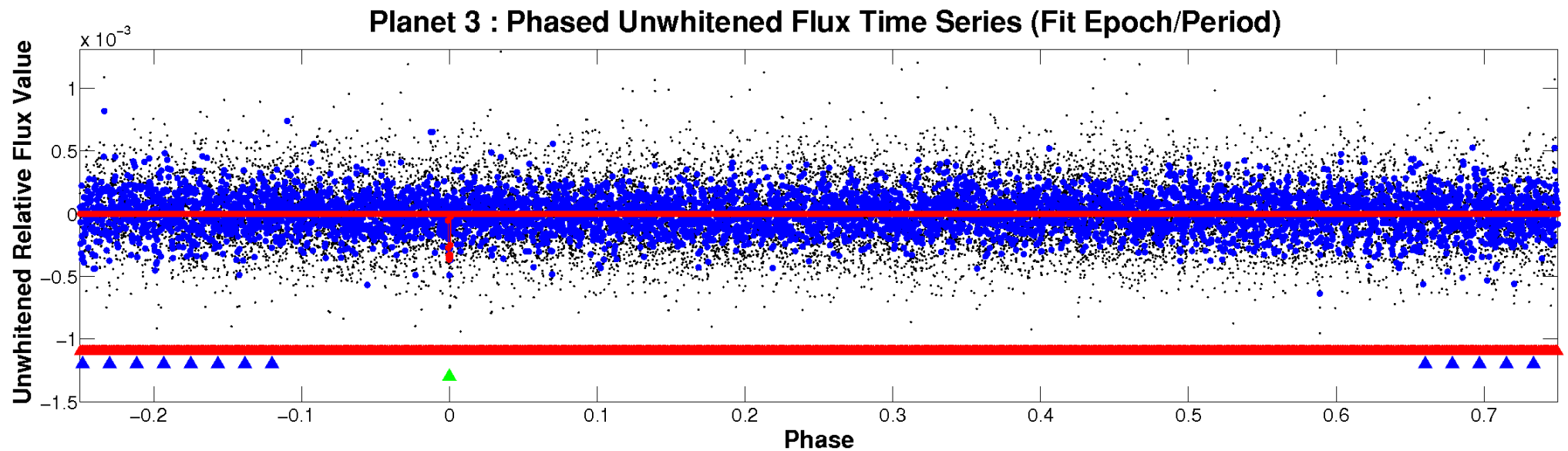


ALT Odd/Even

TCE 011751814-03

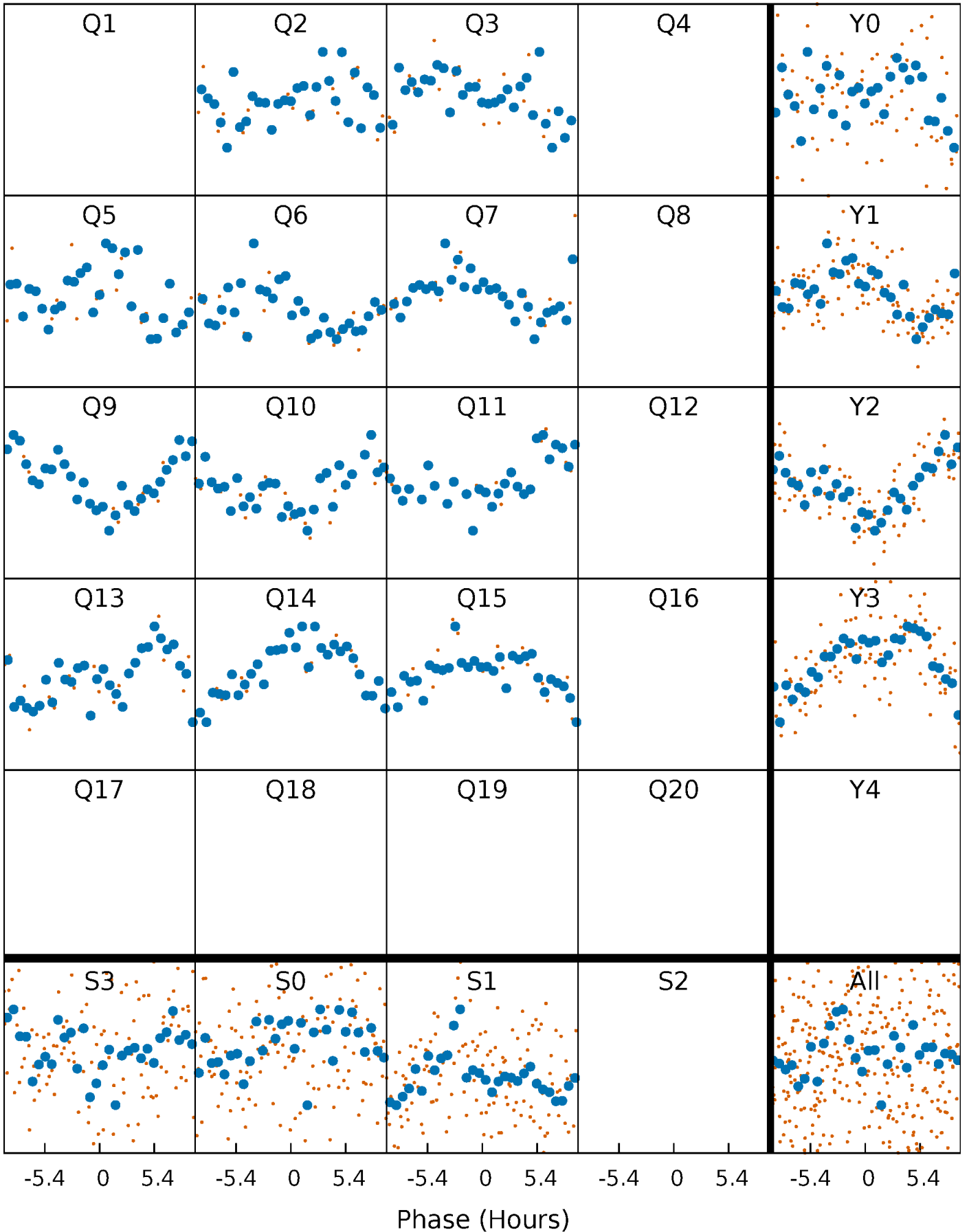


Non-Whitened Vs. Whitened Light Curve



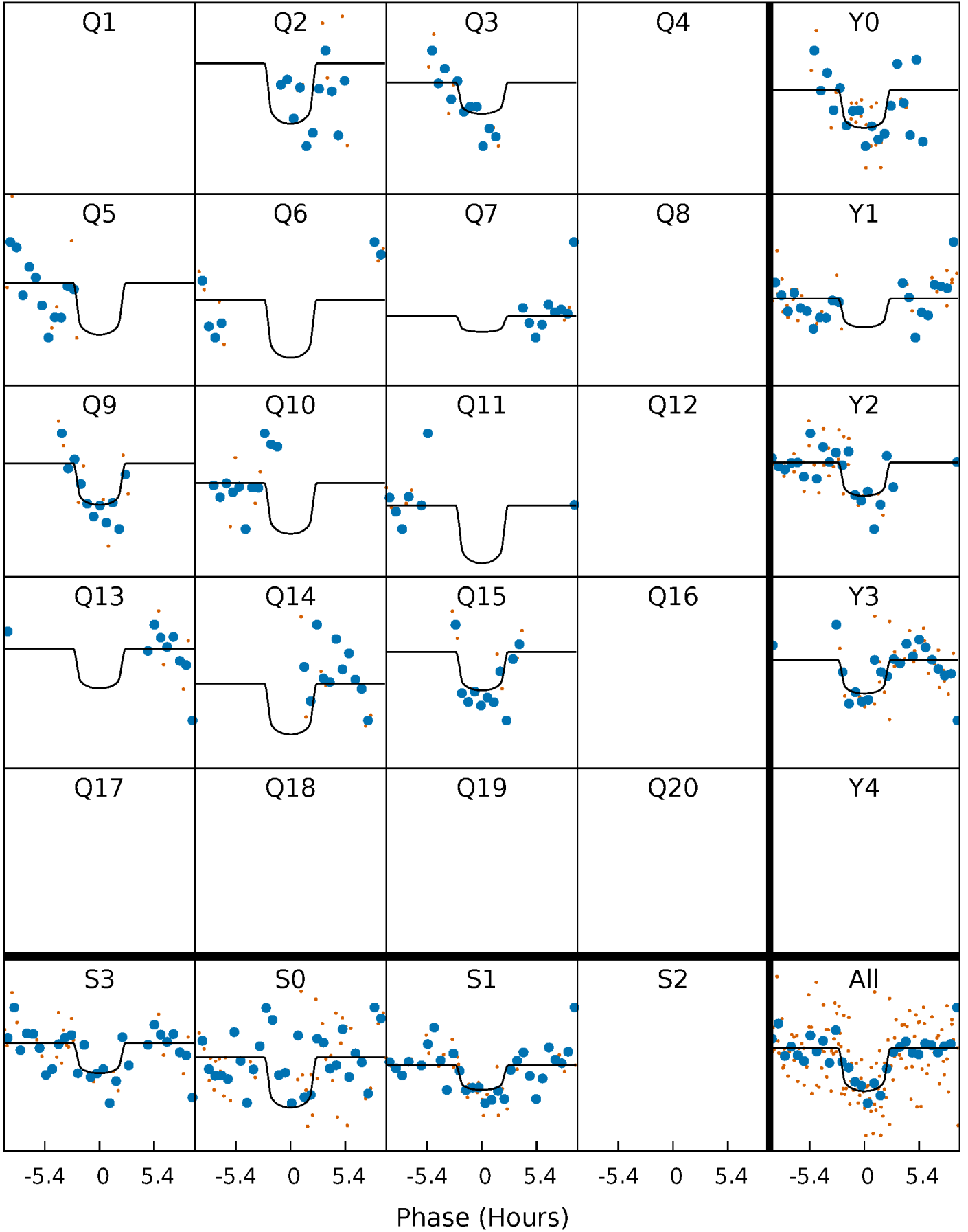
PDC Quarter-Phased Transit Curves

TCE 011751814-03 P=107.499758 Days $T_0=237.105930$ (BKJD)



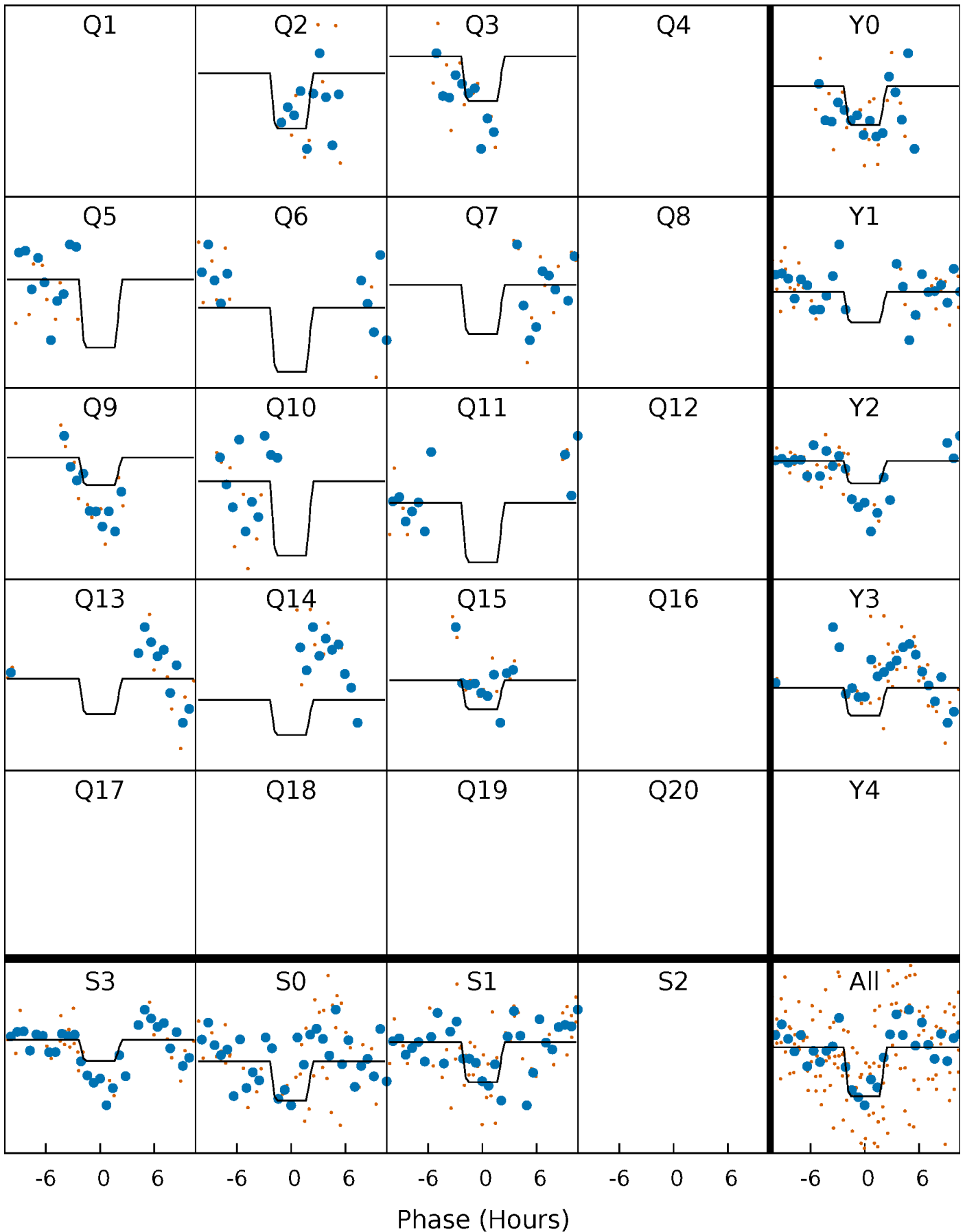
DV Quarter-Phased Transit Curves

TCE 011751814-03 P=107.499758 Days $T_0=237.105930$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

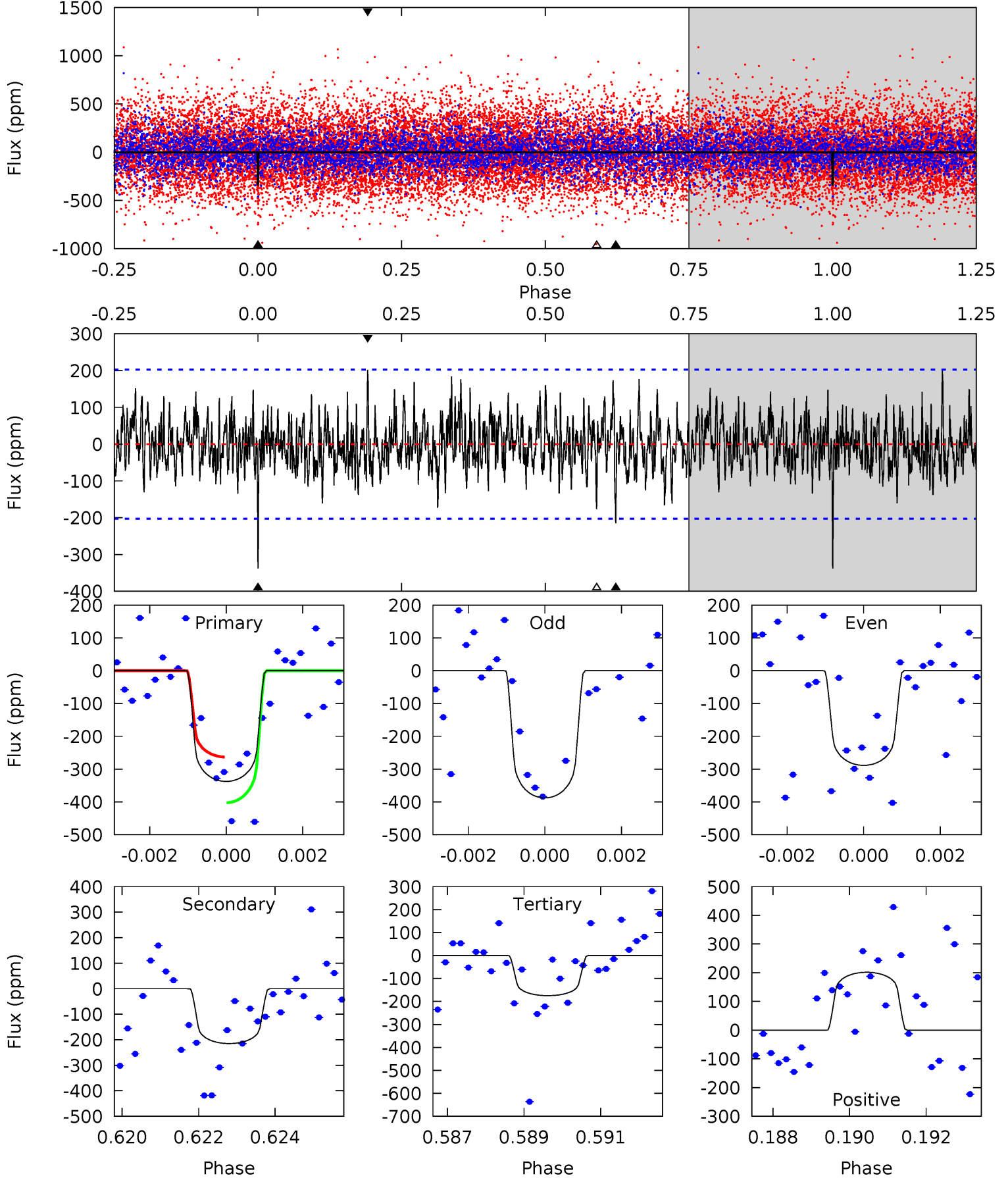
TCE 011751814-03 P=107.500635 Days $T_0=237.113136$ (BKJD)



DV Model-Shift Uniqueness Test

011751814-03, P = 107.499758 Days, E = 129.606172 Days

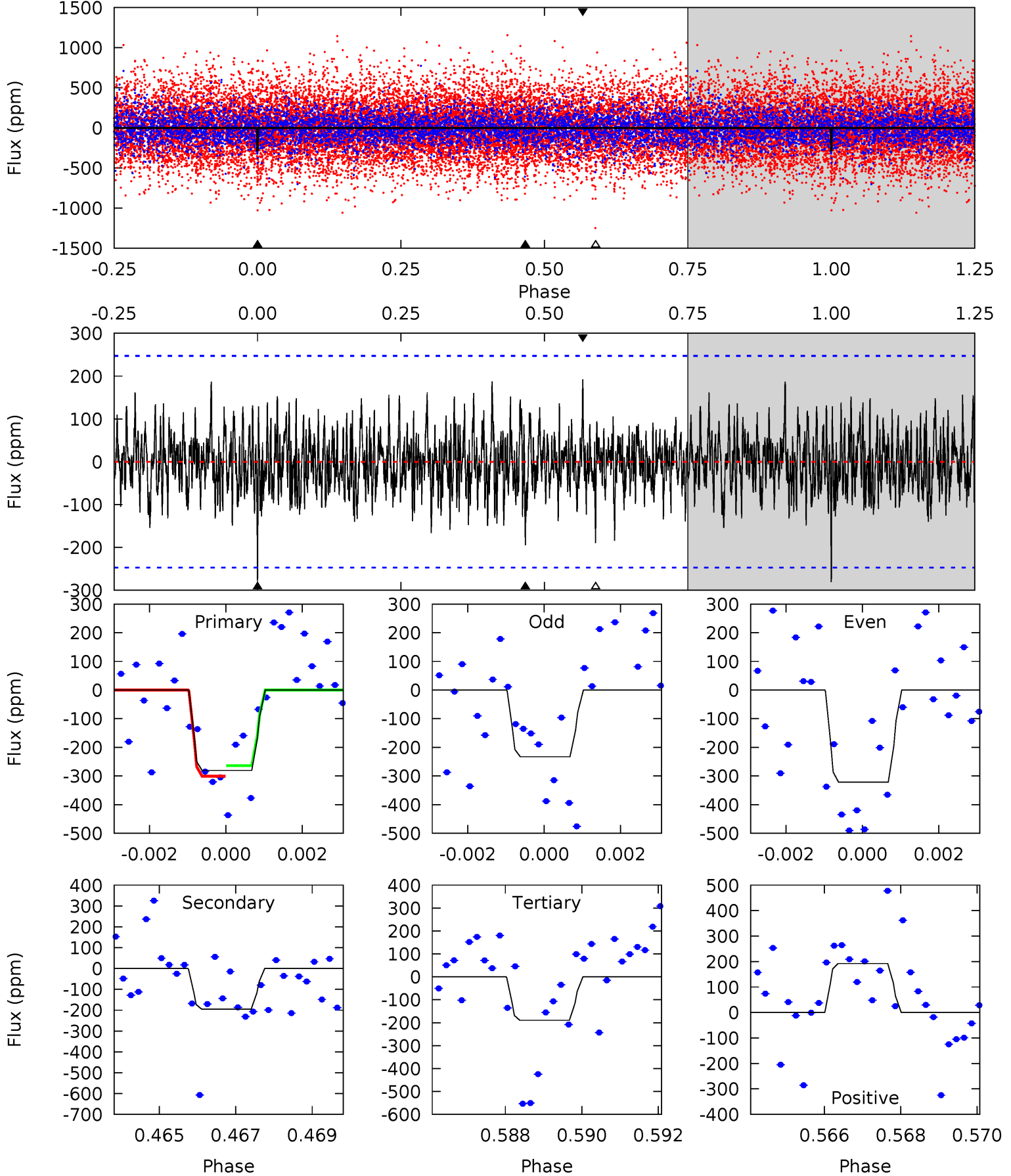
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.88	5.65	4.60	5.30	5.33	3.10	1.50	4.28	3.57	1.06	0.35	1.31	0.59	0.37	1.83



Alt Model-Shift Uniqueness Test

011751814-03, P = 107.500635 Days, E = 129.612501 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.06	4.21	4.10	4.16	5.34	3.11	1.25	1.97	1.90	0.11	0.05	0.96	0.77	0.41	0.40



Stellar Parameters For KIC 011751814

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6726^{+161}_{-241}	$4.340^{+0.062}_{-0.188}$	$-0.080^{+0.250}_{-0.300}$	$1.257^{+0.371}_{-0.159}$	$1.269^{+0.187}_{-0.168}$	$0.900^{+0.295}_{-0.457}$
	+2%/-4%	+1%/-4%	+312%/-375%	+30%/-13%	+15%/-13%	+33%/-51%
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 011751814-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-215 ± 38	$2.86^{+1.52}_{-1.42}$	685^{+43}_{-33}	5741^{+2280}_{-968}	3257^{+8335}_{-1894}
Alt.	-195 ± 46	$2.71^{+1.51}_{-1.31}$	683^{+45}_{-34}	5753^{+2470}_{-1041}	3224^{+9166}_{-1972}

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 $A_{obs} \gg 1.0$

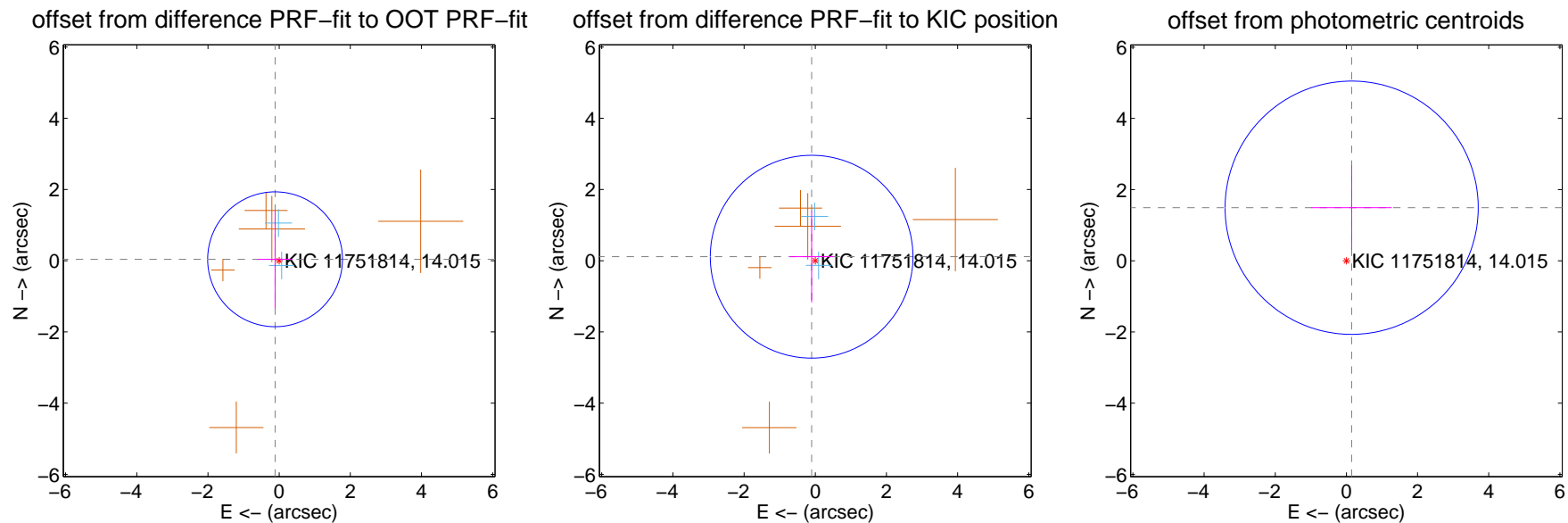
DV Centroid Data

Supplemental centroid analysis for 011751814-03. Kepler magnitude: 14.02. Transit SNR 7.33

There are 2 quarters with good PRF difference image offsets

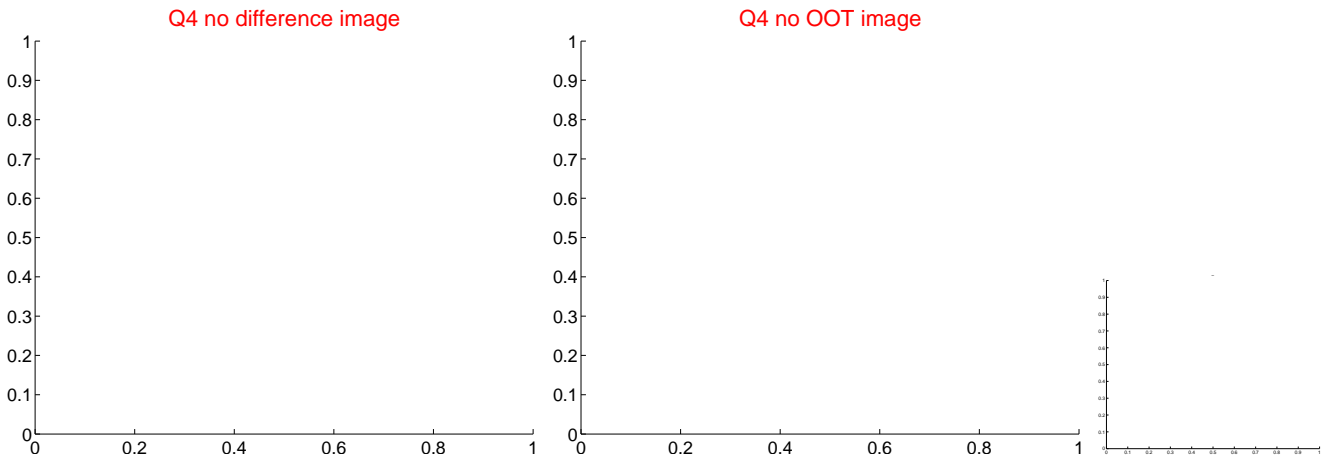
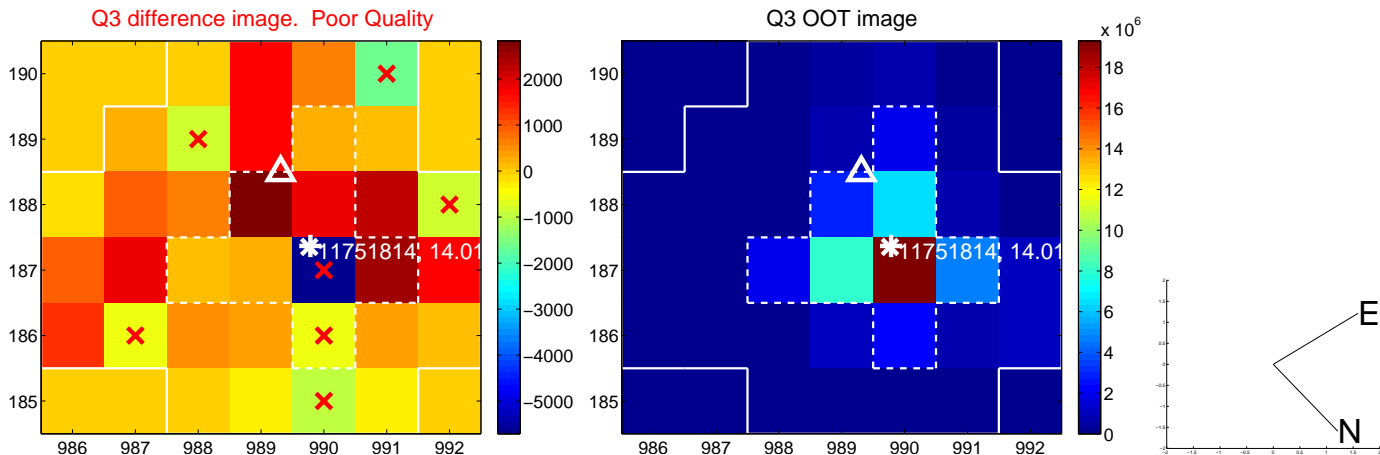
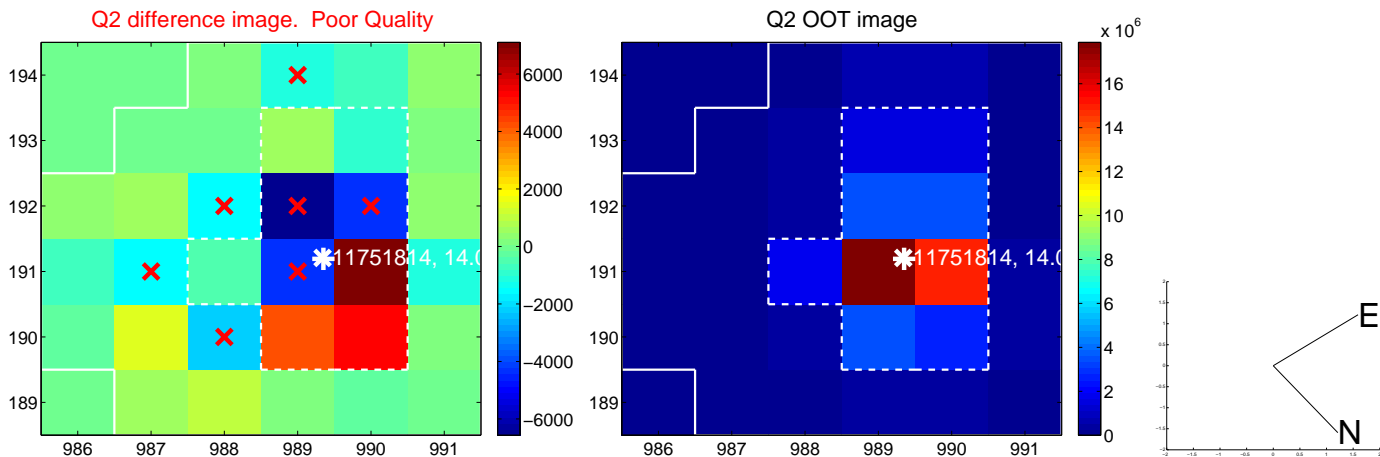
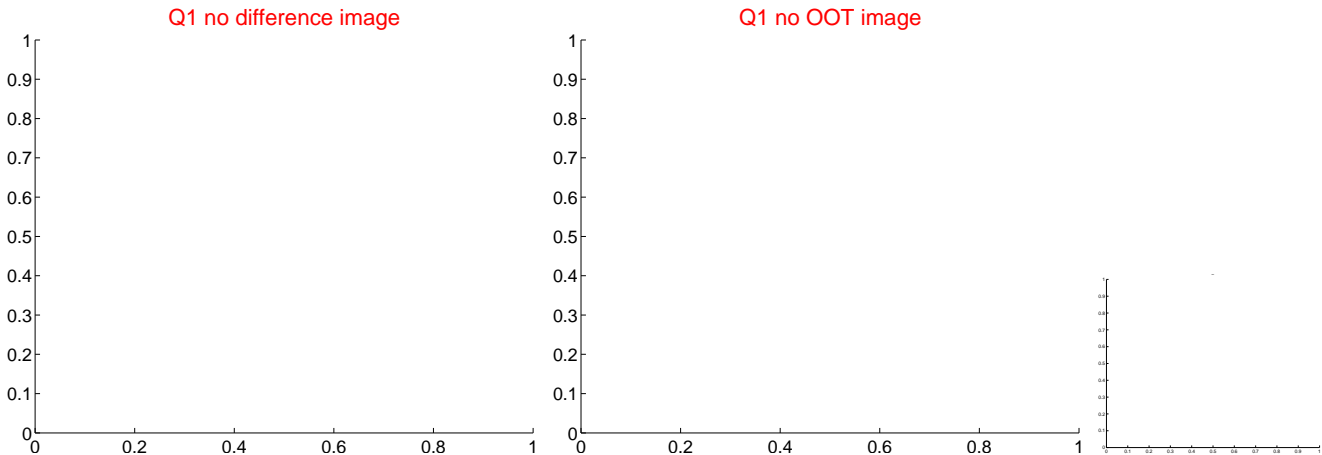
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.121 ± 0.631	0.19	0.115 ± 0.492	0.040 ± 1.374
PRF-fit source offset from KIC position	0.152 ± 0.949	0.16	0.103 ± 0.603	0.112 ± 1.282
photometric centroid source offset	1.50 ± 1.19	1.26	-0.15 ± 1.13	1.49 ± 1.19

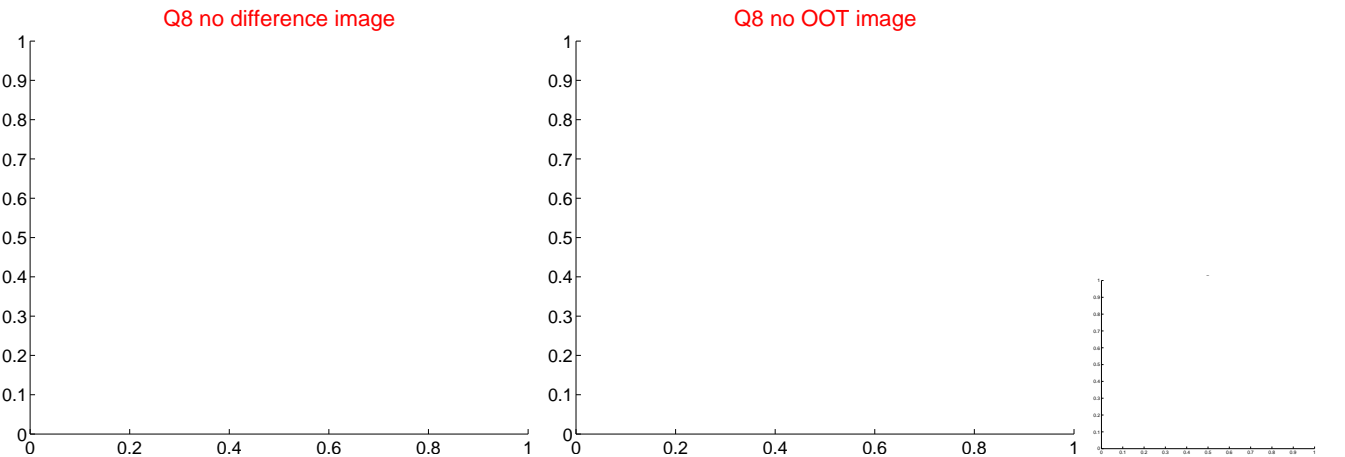
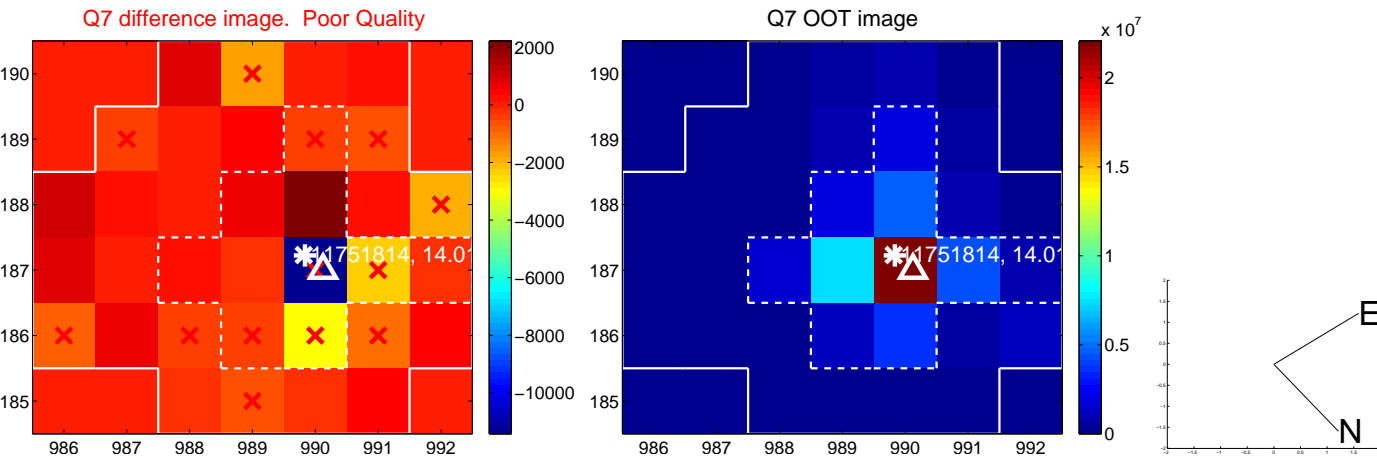
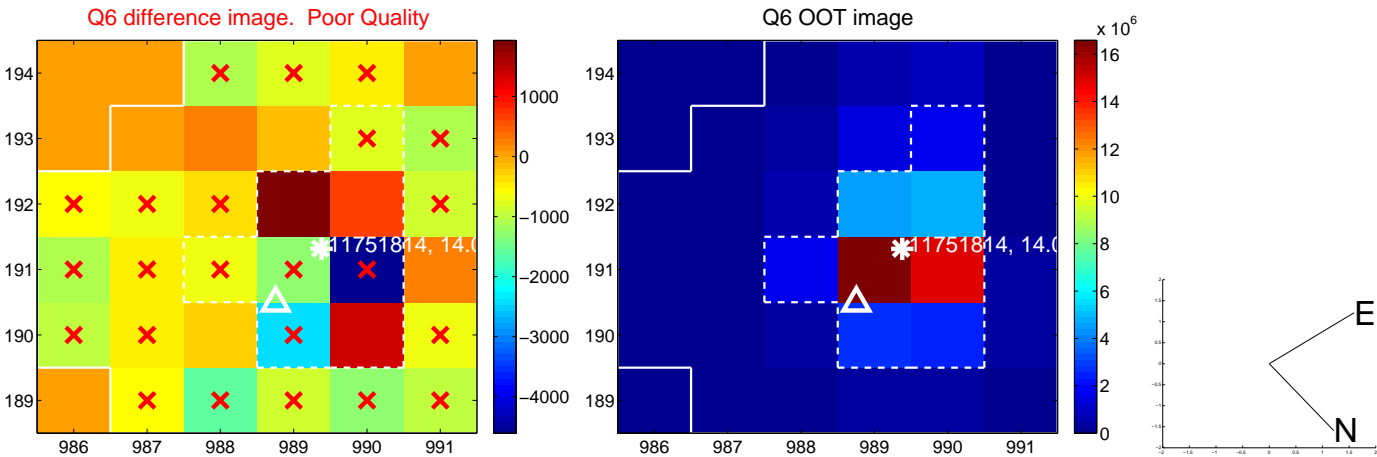
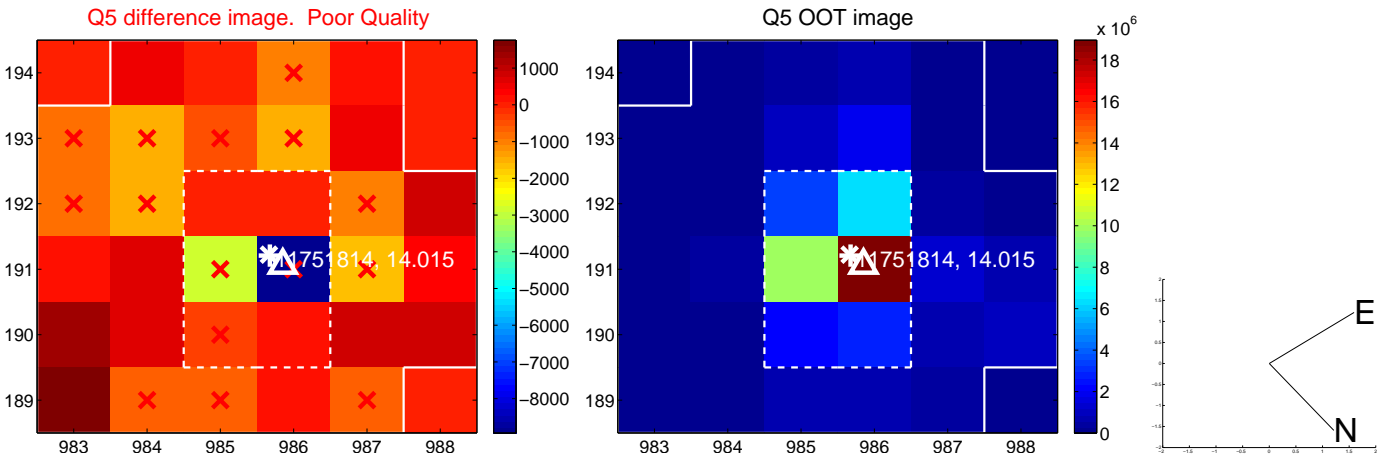


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

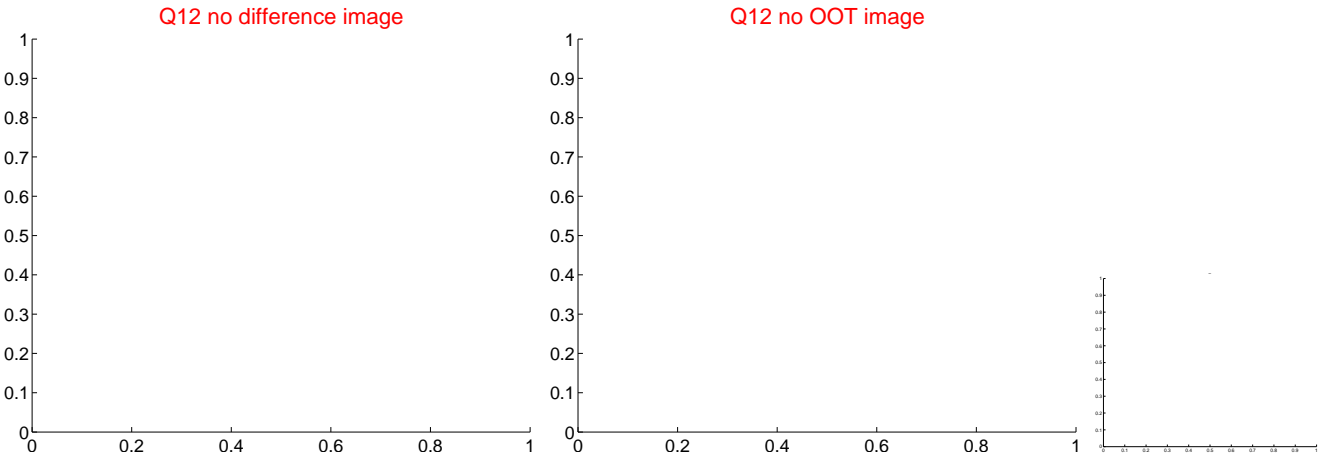
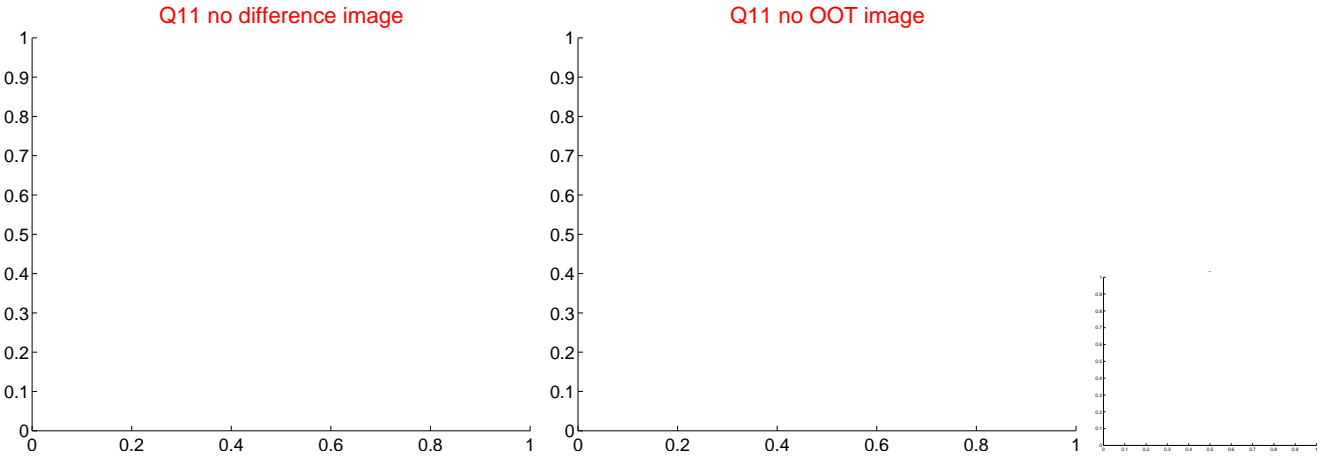
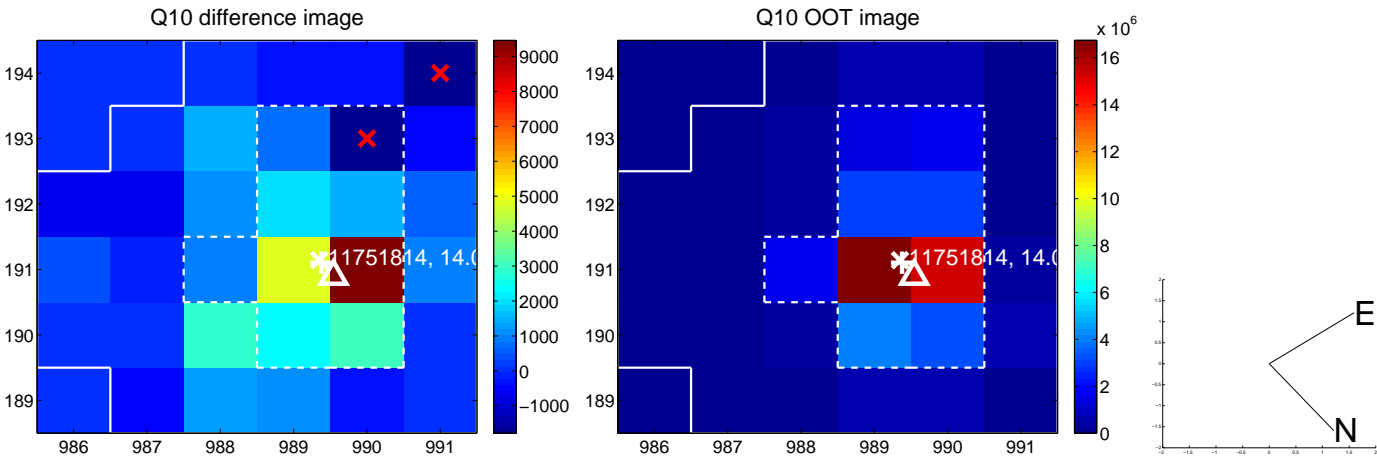
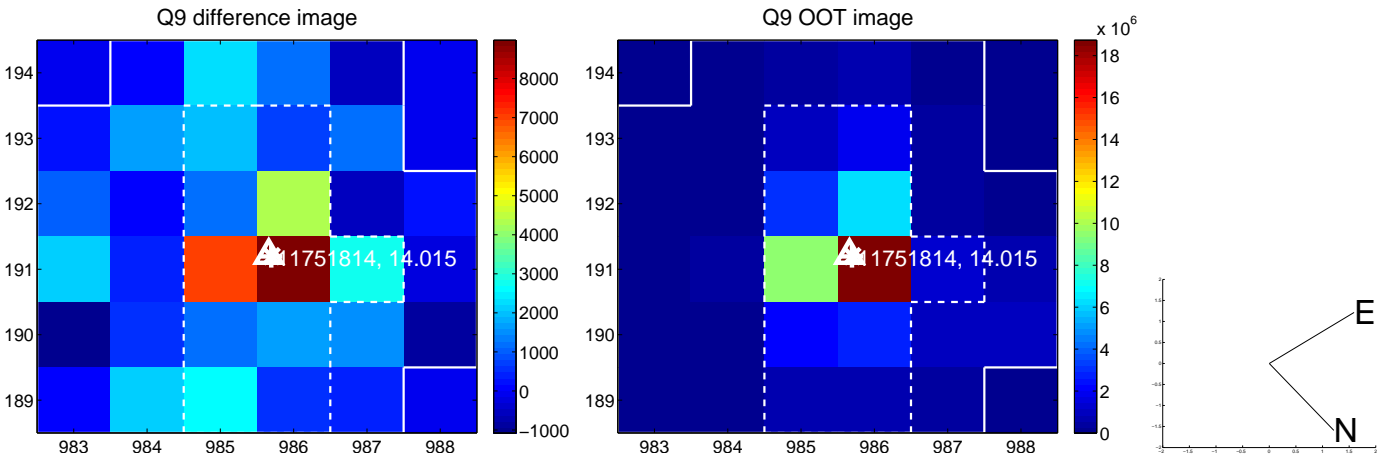
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



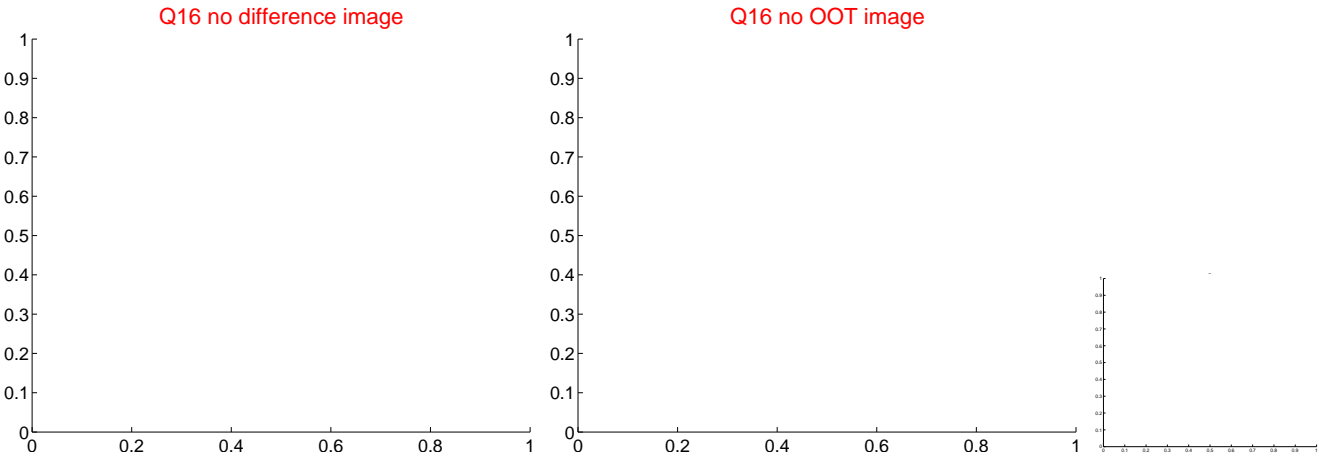
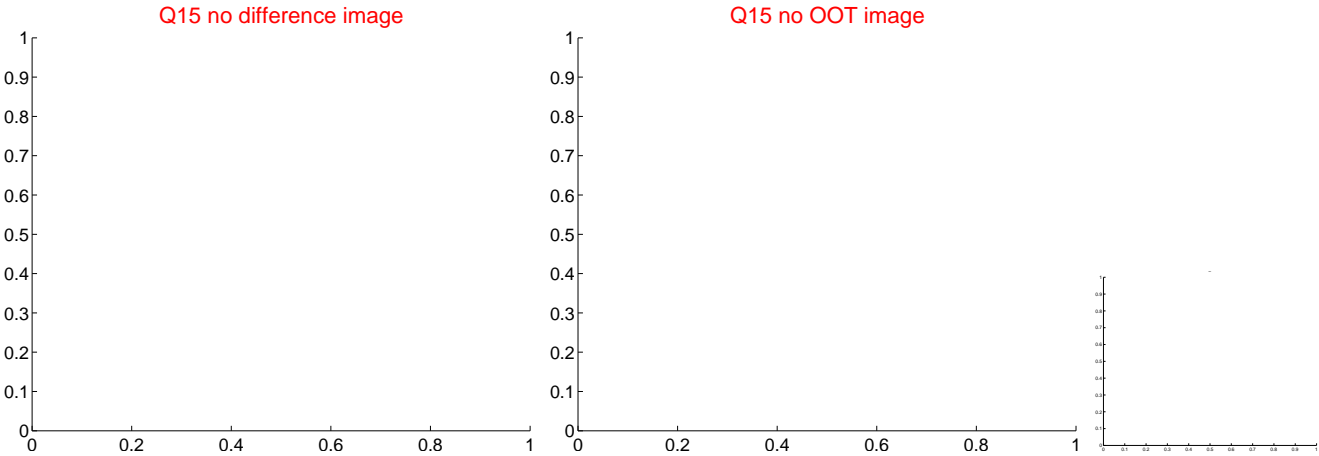
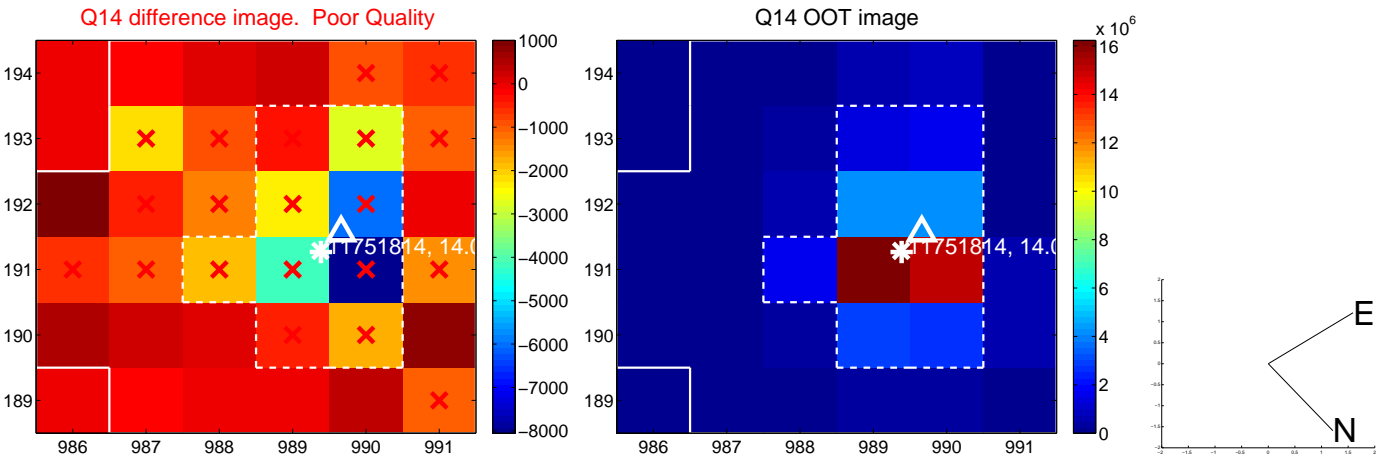
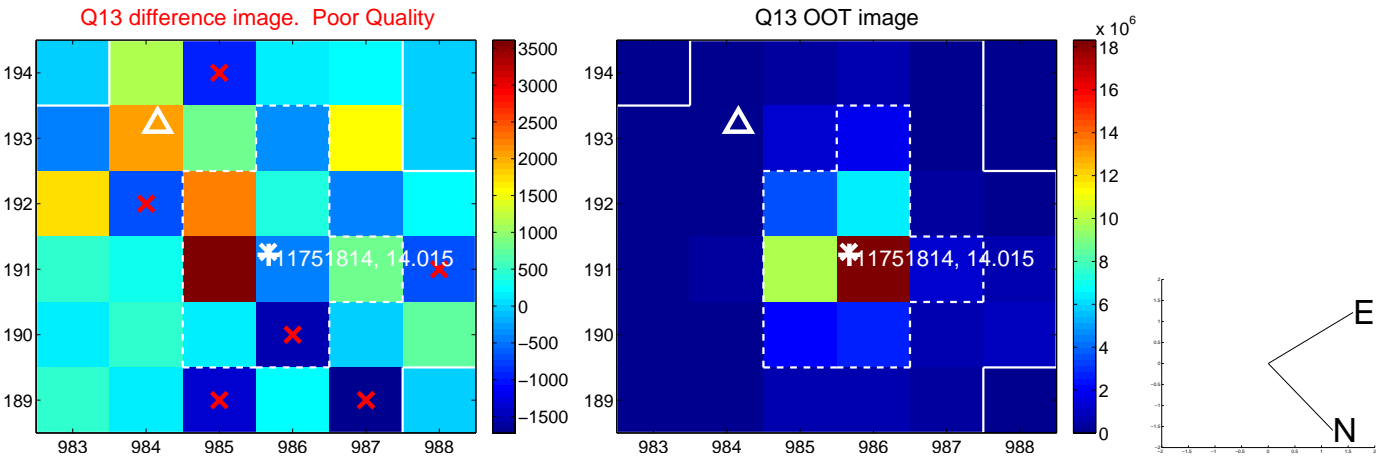
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



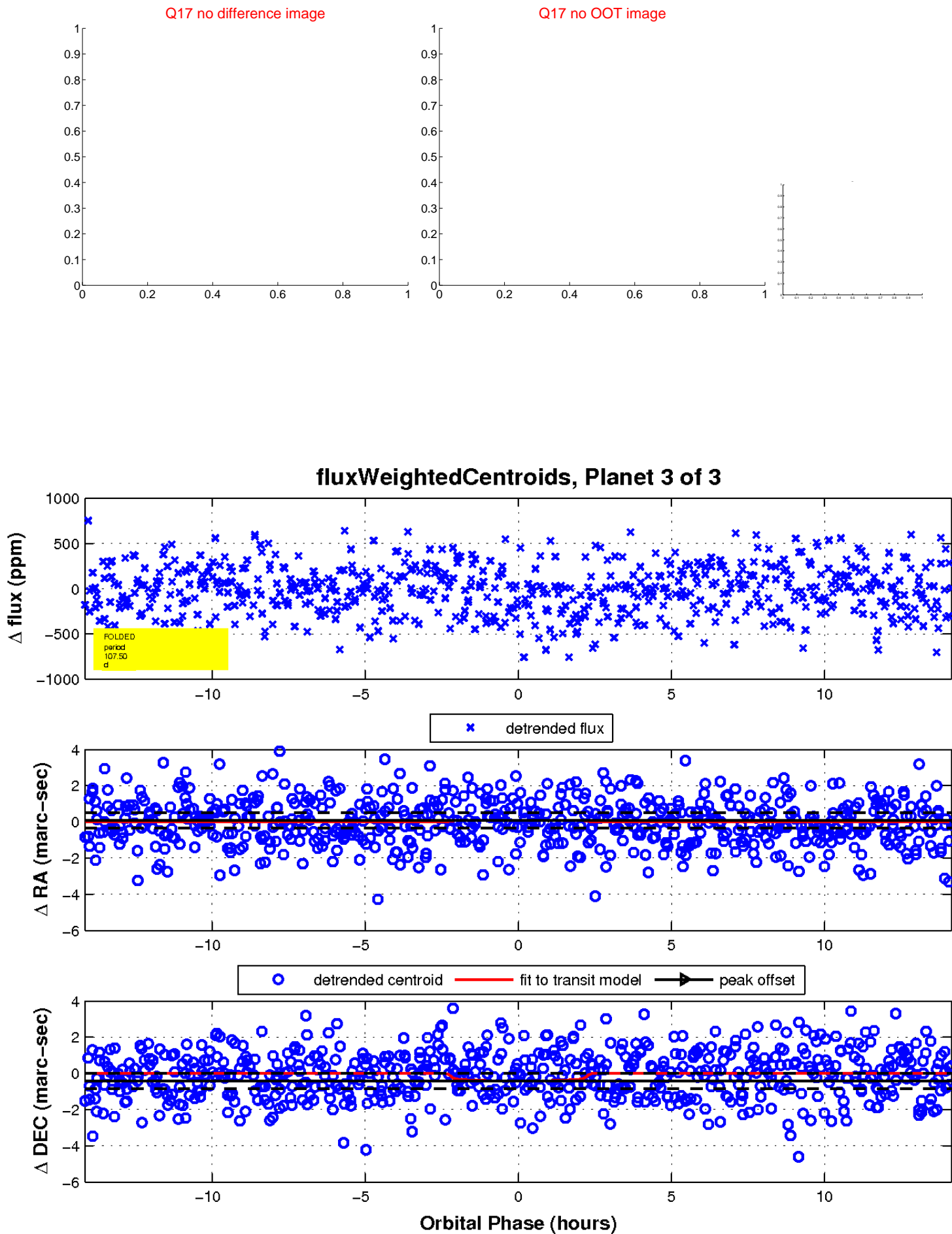
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

