

KIC 012268319

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})
012268319-01	OBS	No	3.630886	133.867488	21.8	7.431	17.4	18.7	2.71	10995	1.46	22158.03
012268319-02	OBS	No	1.815320	132.900459	10.8	5.071	12.0	12.0	2.71	10995	1.02	55839.78
012268319-03	OBS	No	3.630519	131.555267	73.3	6.000	9.4	-1.0	2.71	10995	2.39	22161.01

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
012268319-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_FEW_DIFFS
012268319-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS
012268319-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—SAME_NTL_PERIOD—CENT_NOFITS

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

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

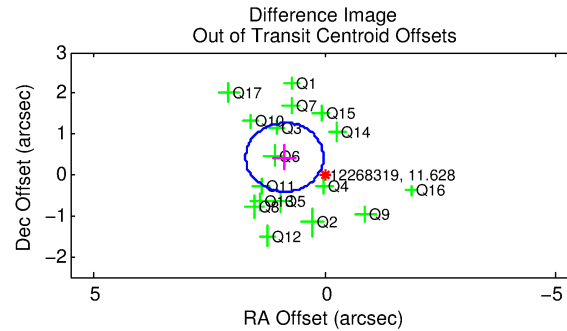
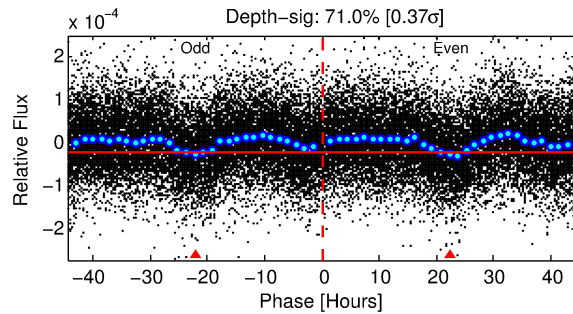
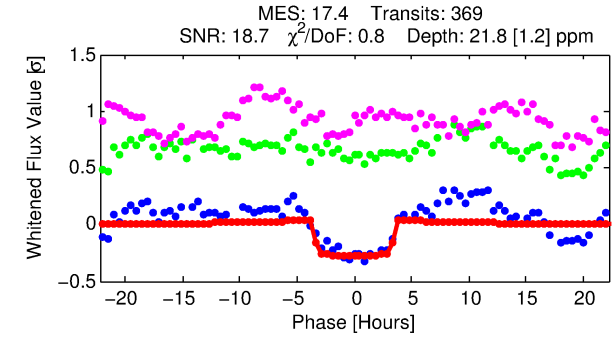
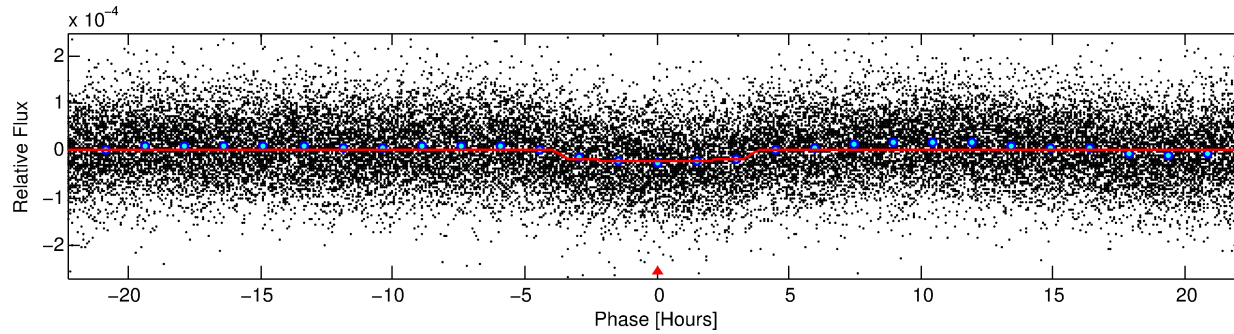
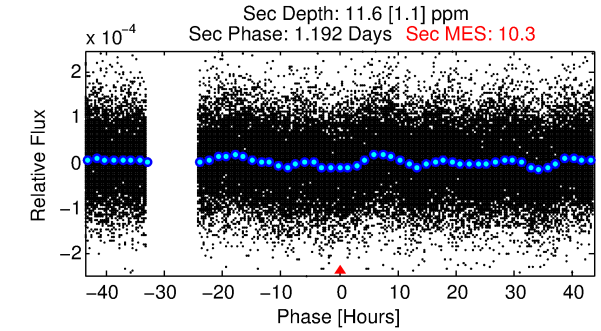
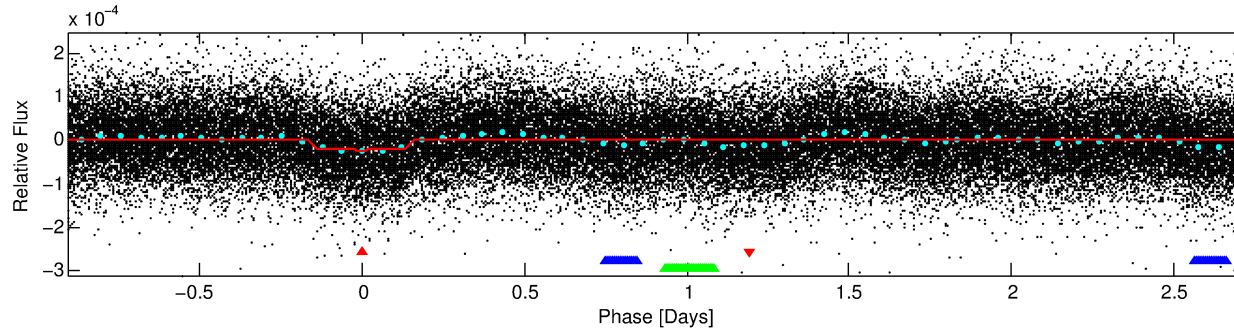
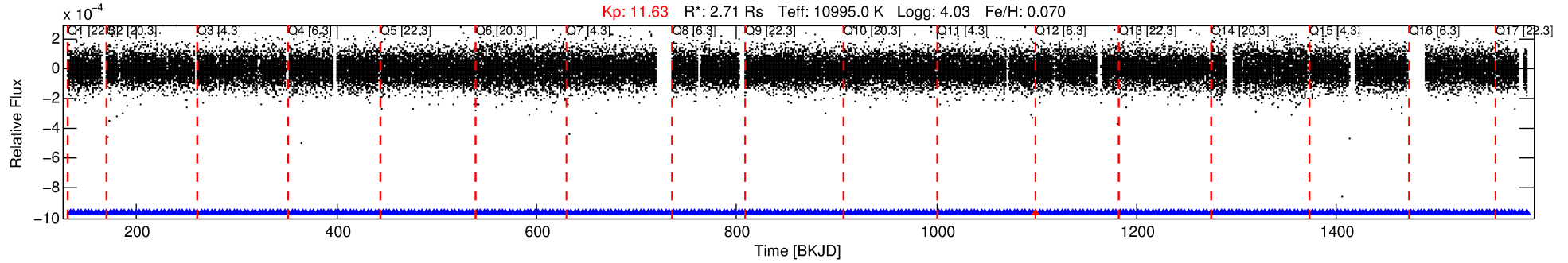
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 012268319-01

No Significant Match Found

DV One-Page Summary

KIC: 12268319 Candidate: 1 of 3 Period: 3.631 d



DV Fit Results:

Period = 3.63089 [0.00002] d
Epoch = 133.8675 [0.0037] BKJD
Rp/R* = 0.0049 [0.0004]
a/R* = 1.80 [0.85]
b = 0.92 [0.12]
Seff = 22158.03 [10837.67]
Teq = 3111 [380] K
Rp = 1.46 [0.54] Re
a = 0.0659 [0.0203] AU
Ag = 12.96 [6.41] [1.87σ]
Teffp = 9127 [597] K [8.50σ]

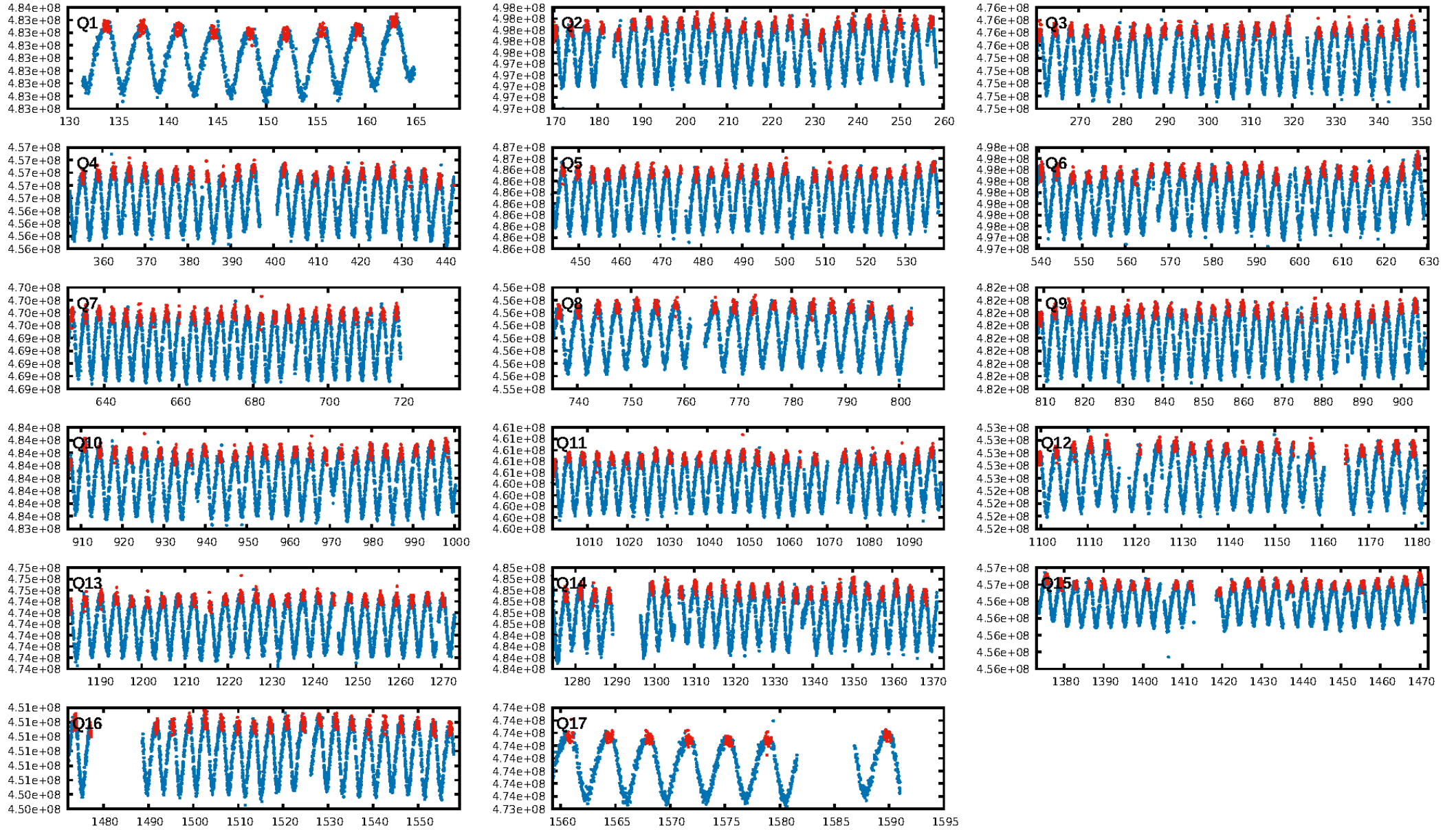
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.60e-48
RollingBand-fgt: 1.00 [352/353]
GhostDiagnostic-chr: 3.227
Centroid-sig: 21.5%
Centroid-so: 1.070 arcsec [1.13σ]
OotOffset-rm: 0.969 arcsec [3.46σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.819 arcsec [2.97σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.00 [0/17]
DiffImageOverlap-fno: 0.29 [5/17]

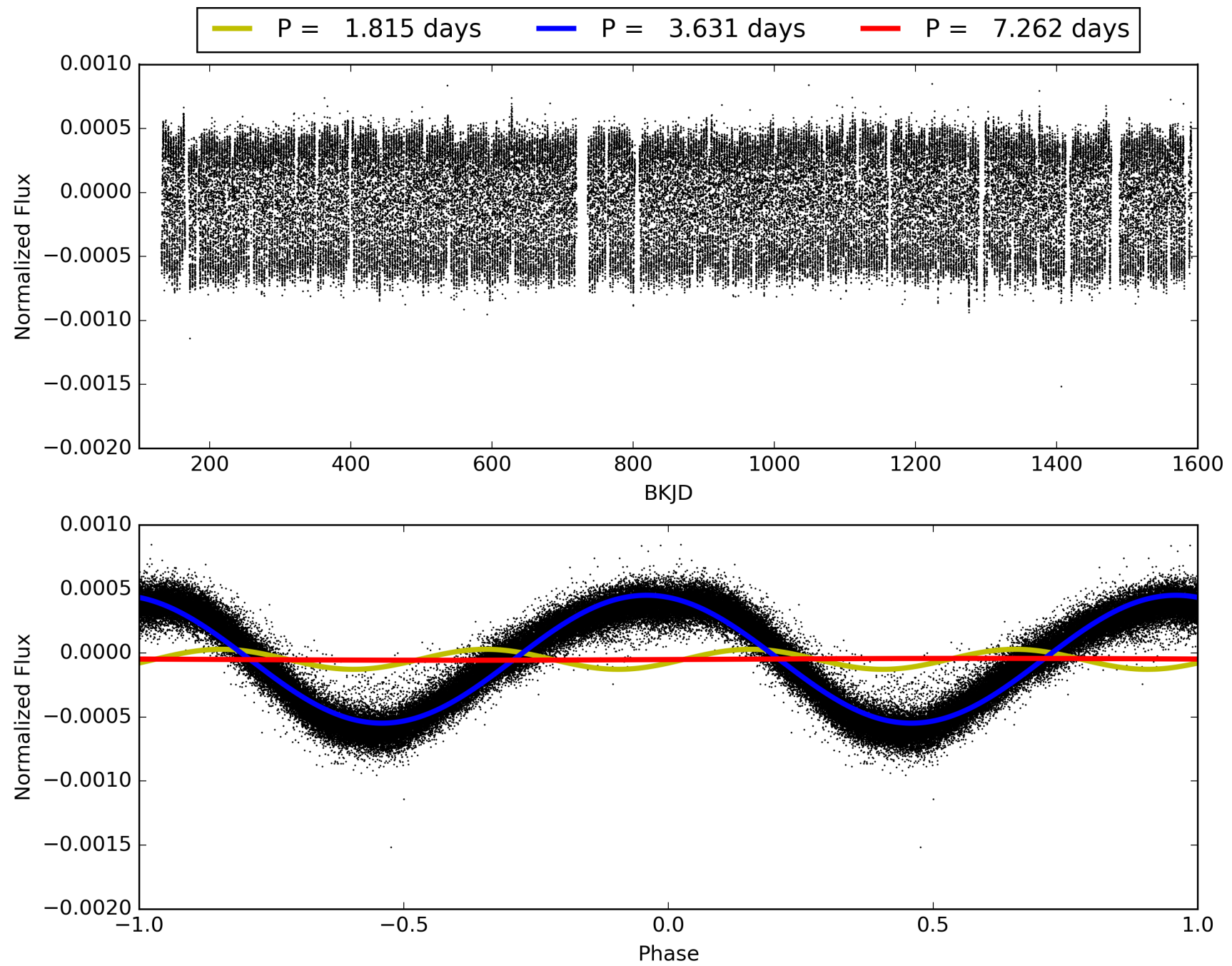
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:26:43 Z

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

TCE 012268319-01, PDC Light Curves

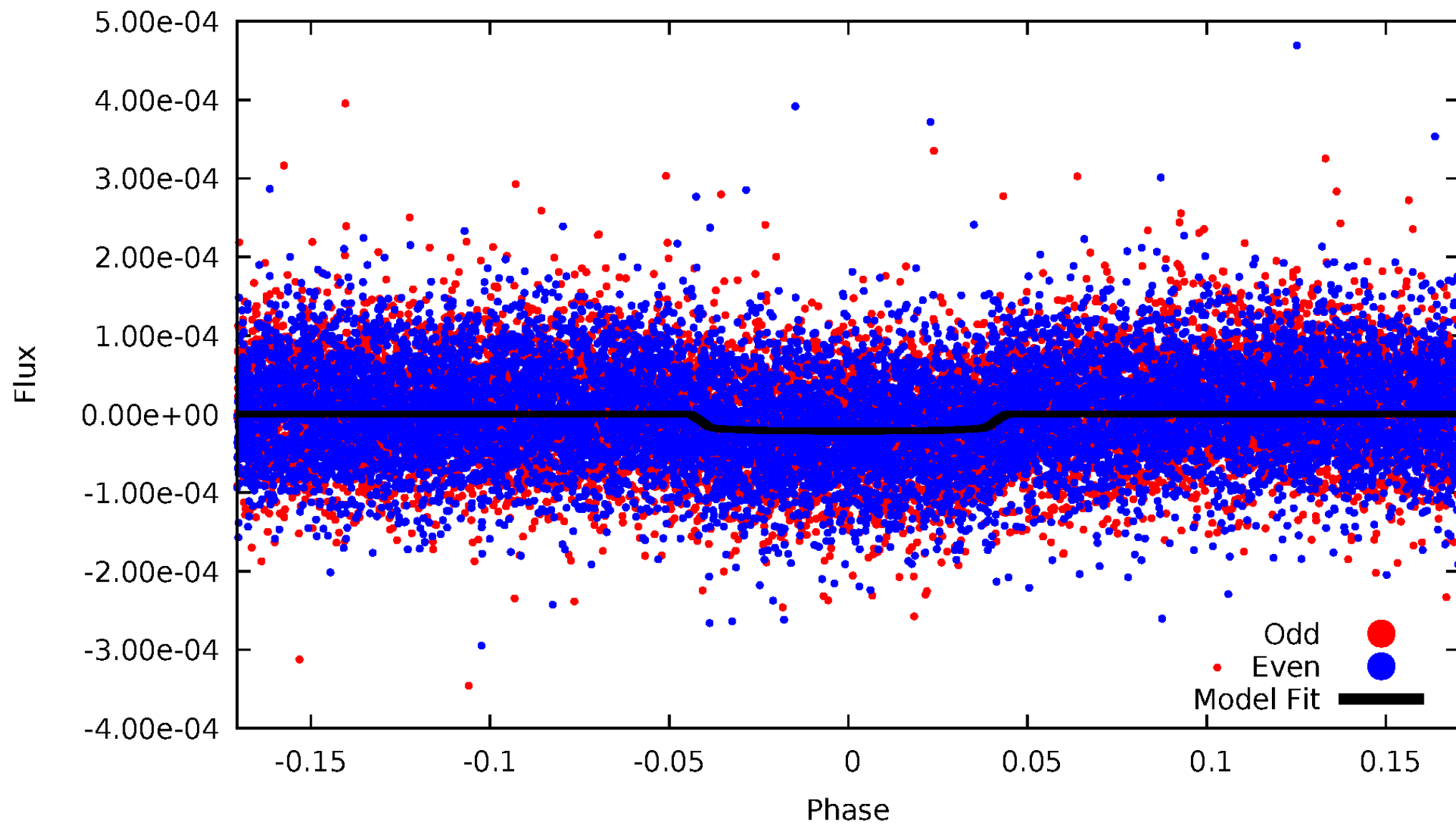


TCE 012268319-01



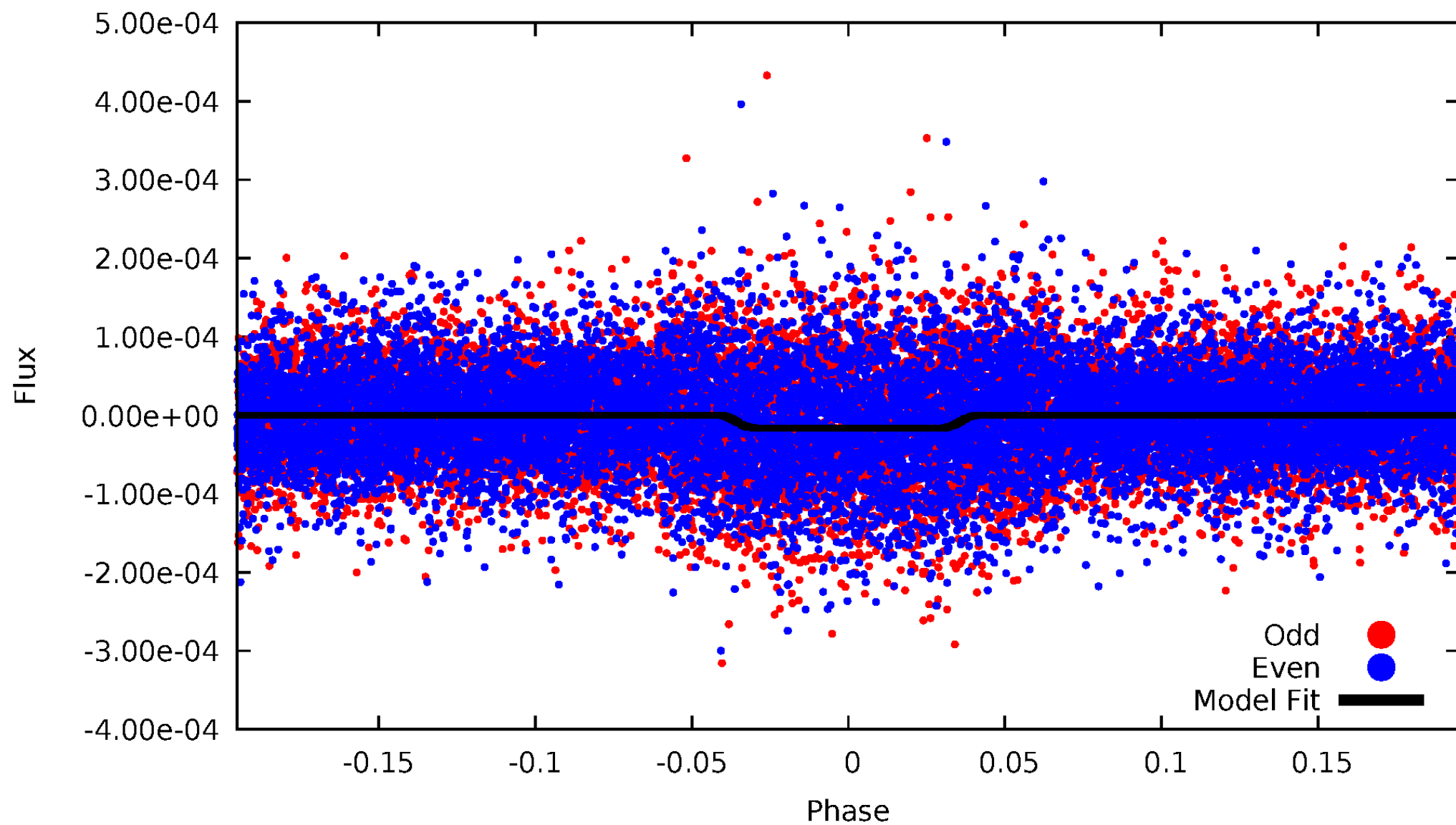
DV Odd/Even

TCE 012268319-01



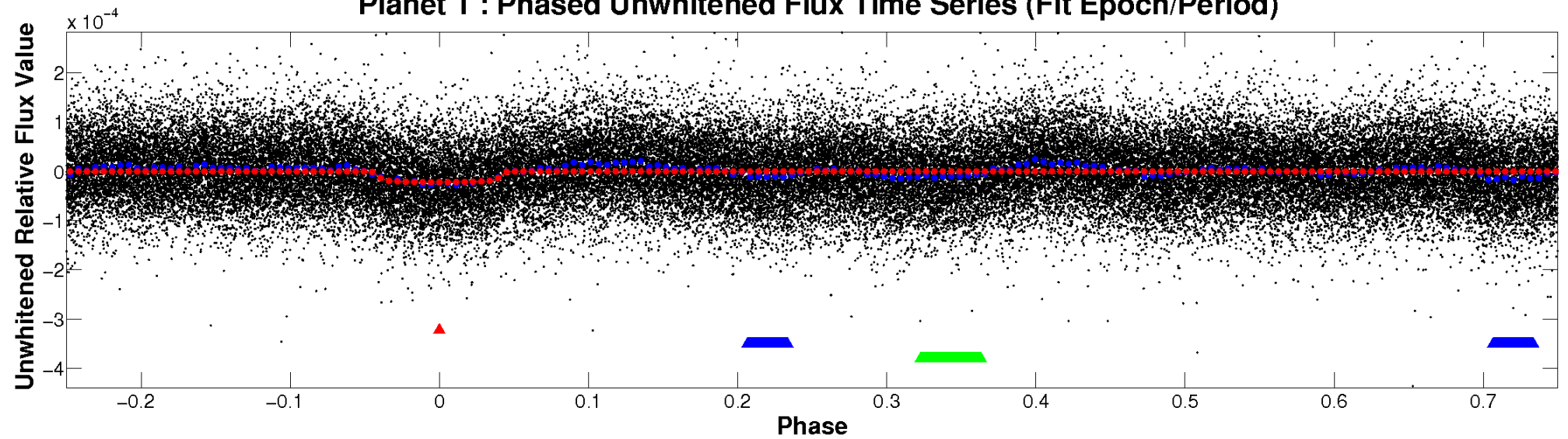
ALT Odd/Even

TCE 012268319-01

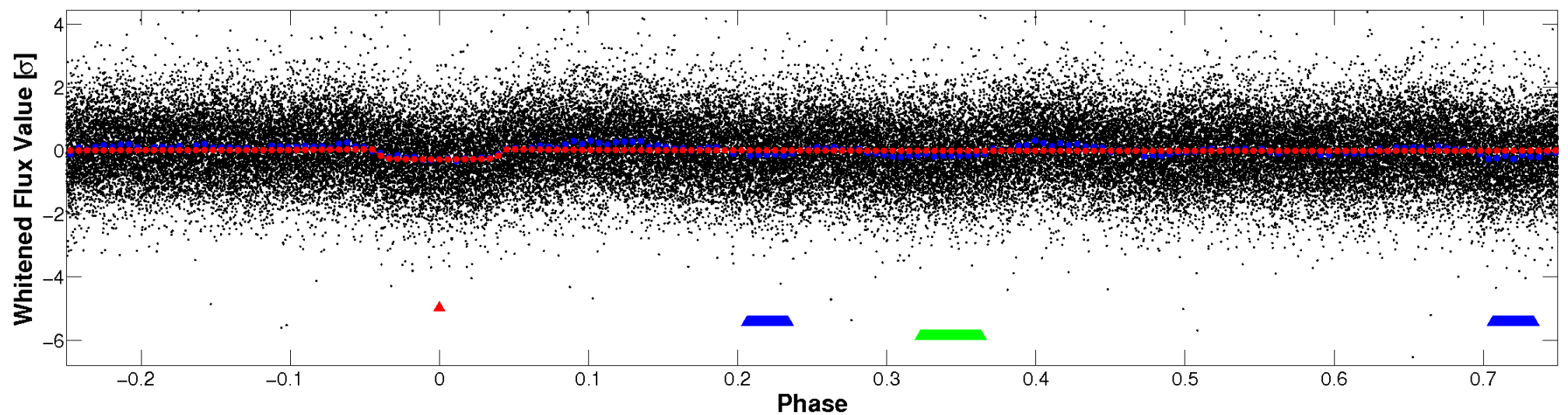


Non-Whitened Vs. Whitened Light Curve

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

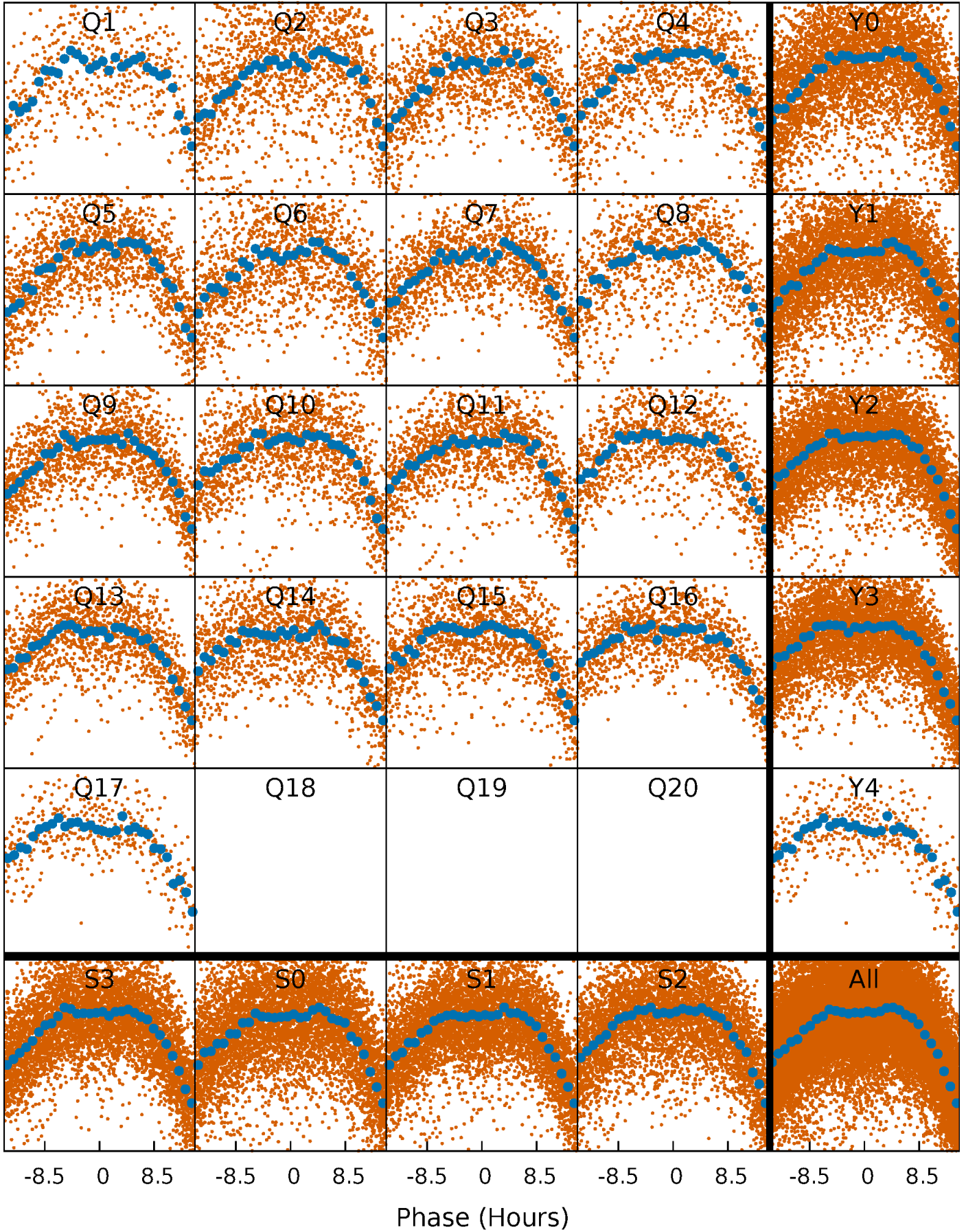


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



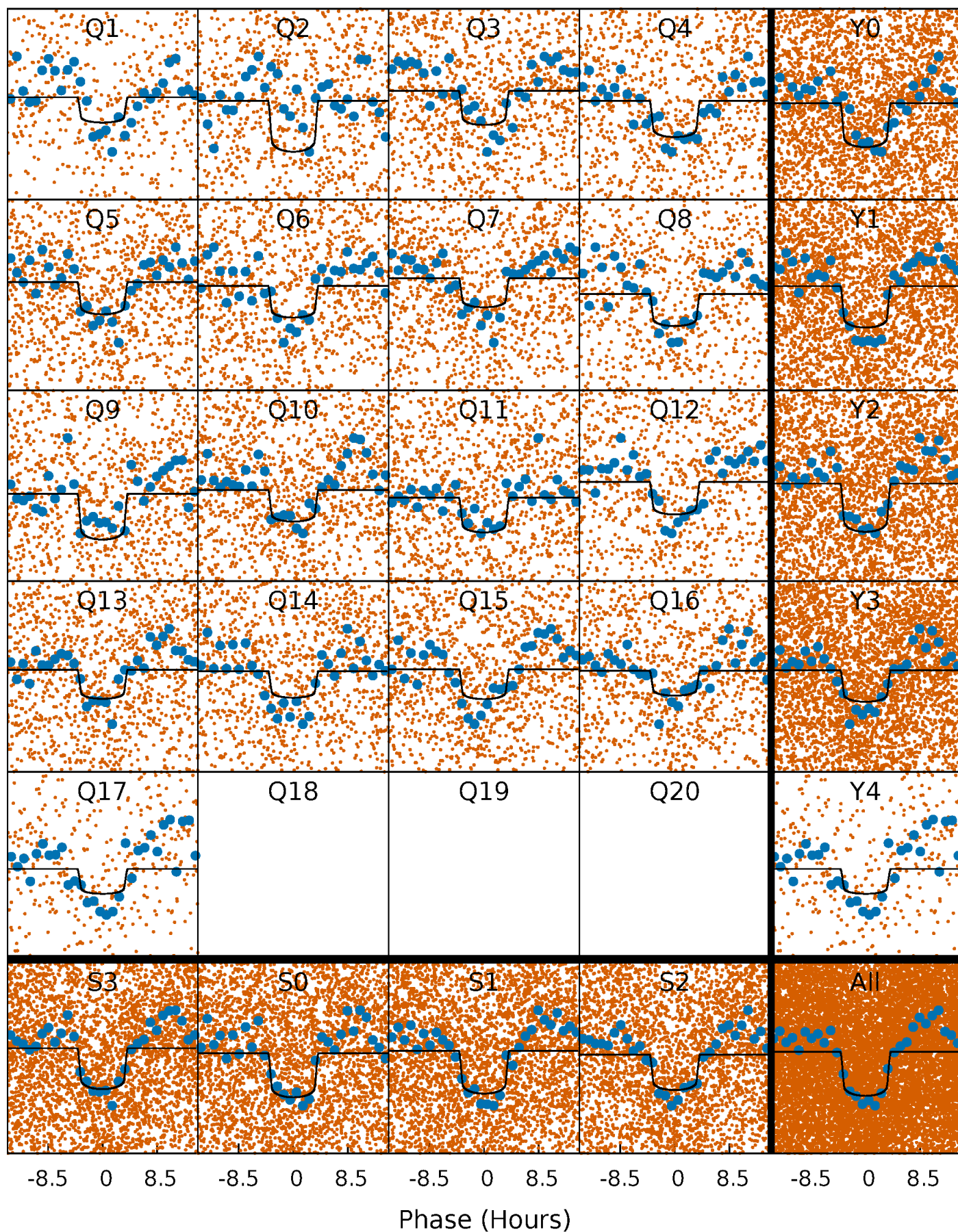
PDC Quarter-Phased Transit Curves

TCE 012268319-01 P= 3.630886 Days $T_0=133.867488$ (BKJD)



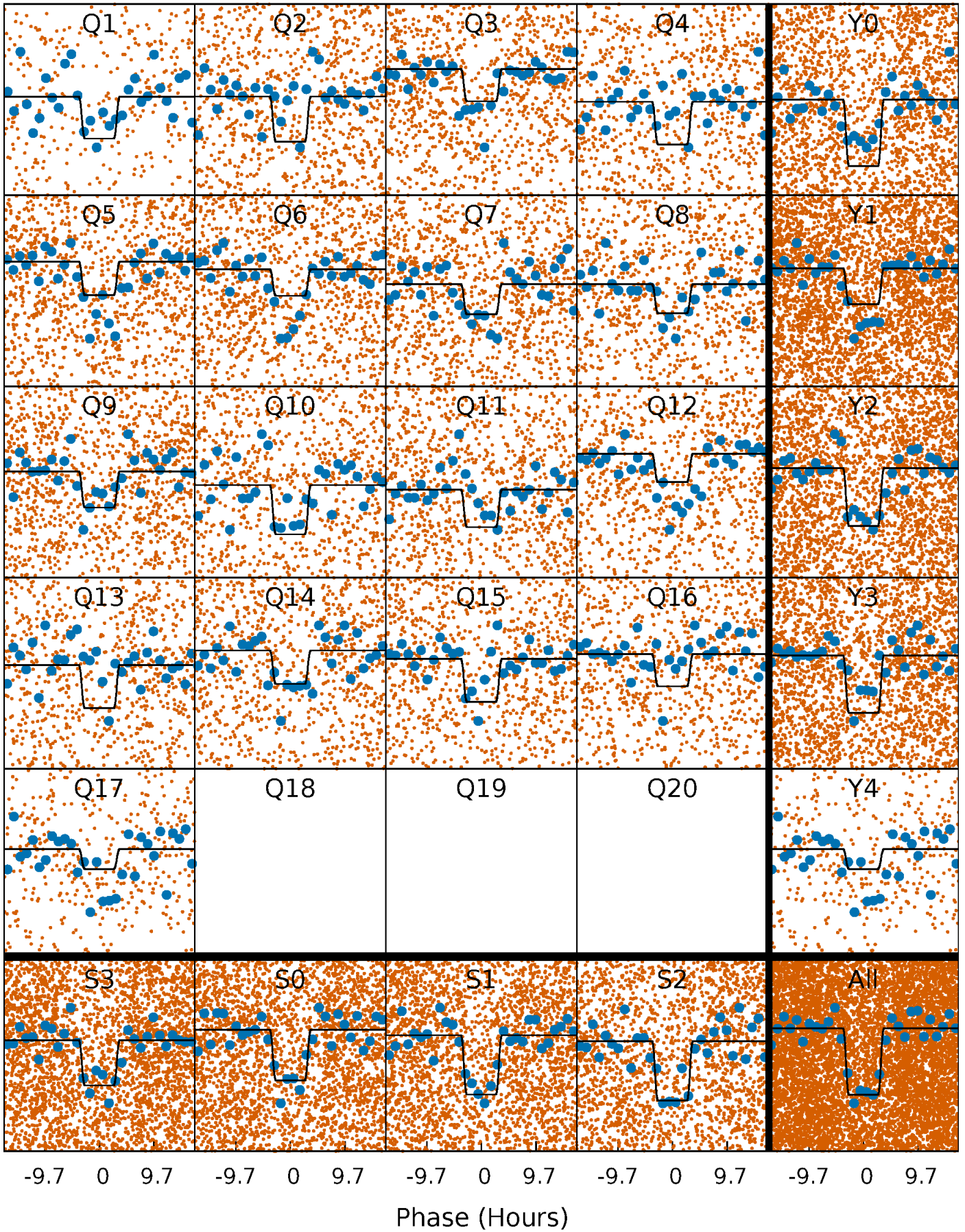
DV Quarter-Phased Transit Curves

TCE 012268319-01 P= 3.630886 Days $T_0=133.867488$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

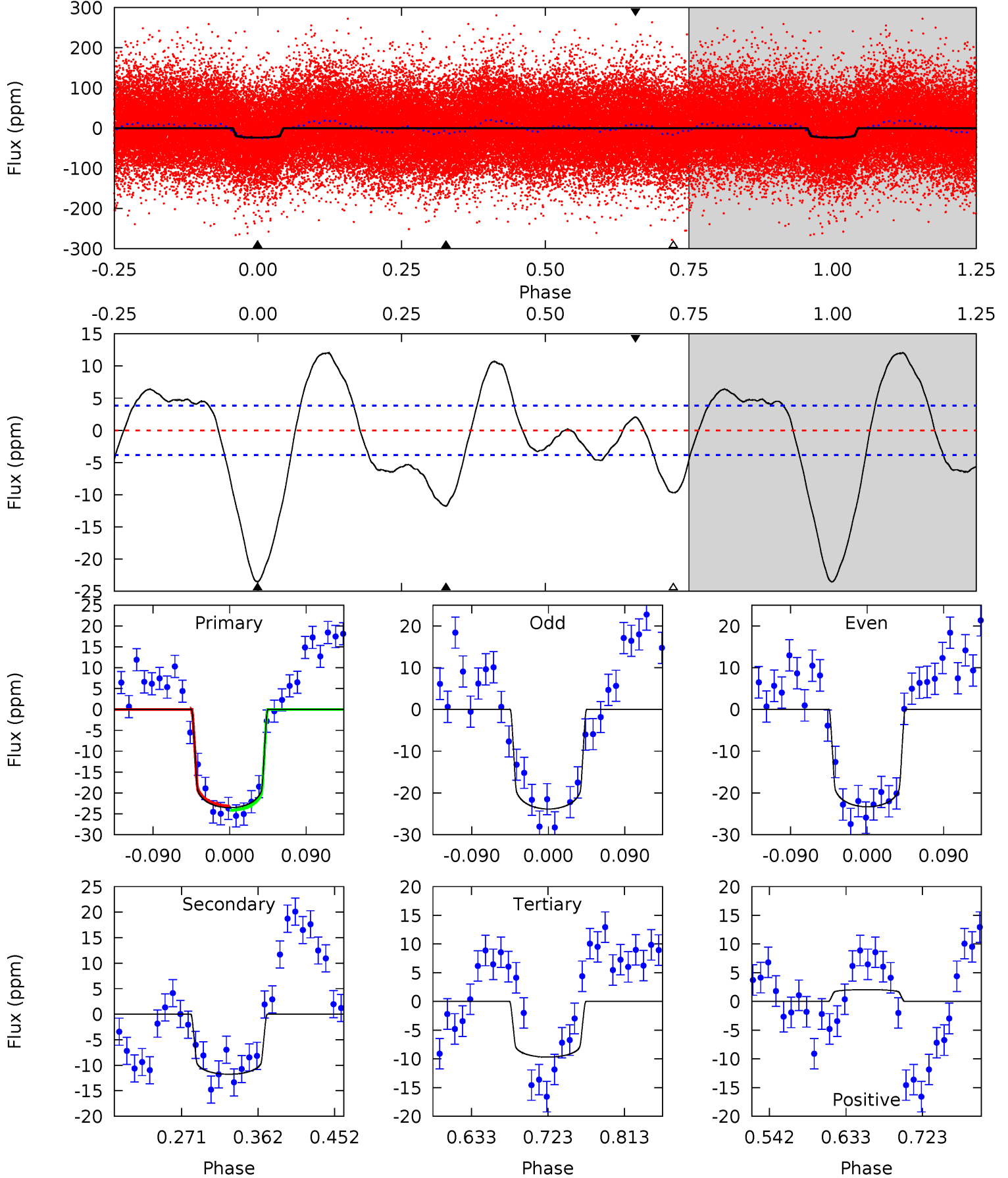
TCE 012268319-01 P= 3.630711 Days $T_0=133.889773$ (BKJD)



DV Model-Shift Uniqueness Test

012268319-01, P = 3.630886 Days, E = 130.236602 Days

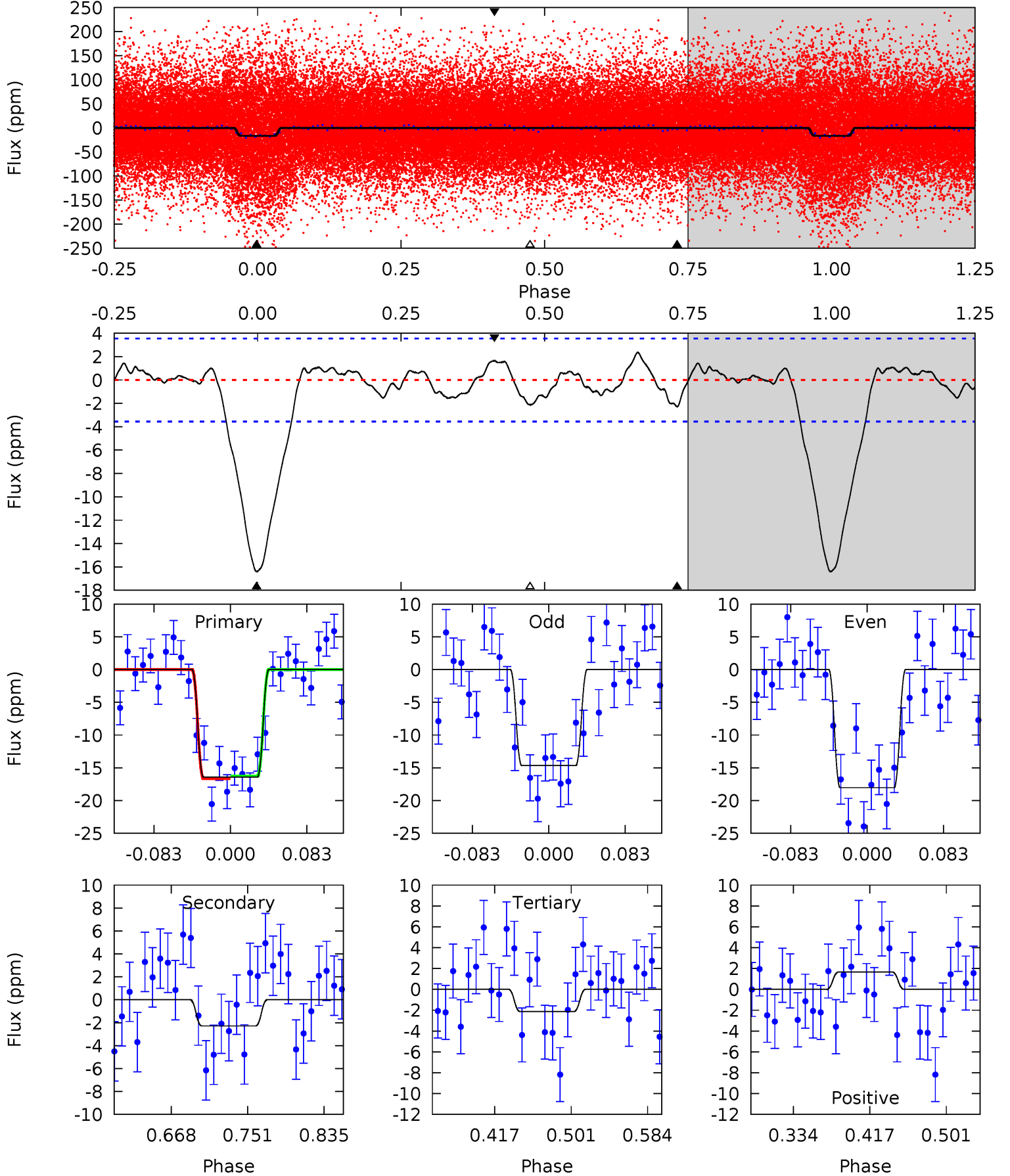
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.2	14.1	11.6	2.47	4.59	1.69	6.62	16.6	25.7	2.48	11.6	0.32	1.01	0.34	0.61



Alt Model-Shift Uniqueness Test

012268319-01, P = 3.630711 Days, E = 130.259062 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.2	2.95	2.76	2.14	4.60	1.73	1.17	18.5	19.1	0.19	0.81	2.17	0.88	0.13	0.23



Stellar Parameters For KIC 012268319

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	10995^{+261}_{-490}	$4.033^{+0.252}_{-0.168}$	$0.070^{+0.150}_{-0.600}$	$2.709^{+0.733}_{-0.977}$	$2.891^{+0.241}_{-0.723}$	$0.205^{+0.341}_{-0.098}$
	+2%/-4%	+6%/-4%	+214%/-857%	+27%/-36%	+8%/-25%	+166%/-48%
Source	KIC0	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 012268319-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-12 ± 1	$1.43^{+0.29}_{-0.27}$	4300^{+338}_{-388}	8363^{+590}_{-530}	13^{+7}_{-4}
Alt.	-2 ± 1	$1.15^{+0.24}_{-0.21}$	4298^{+347}_{-373}	5867^{+585}_{-685}	$3.971^{+2.453}_{-1.777}$

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

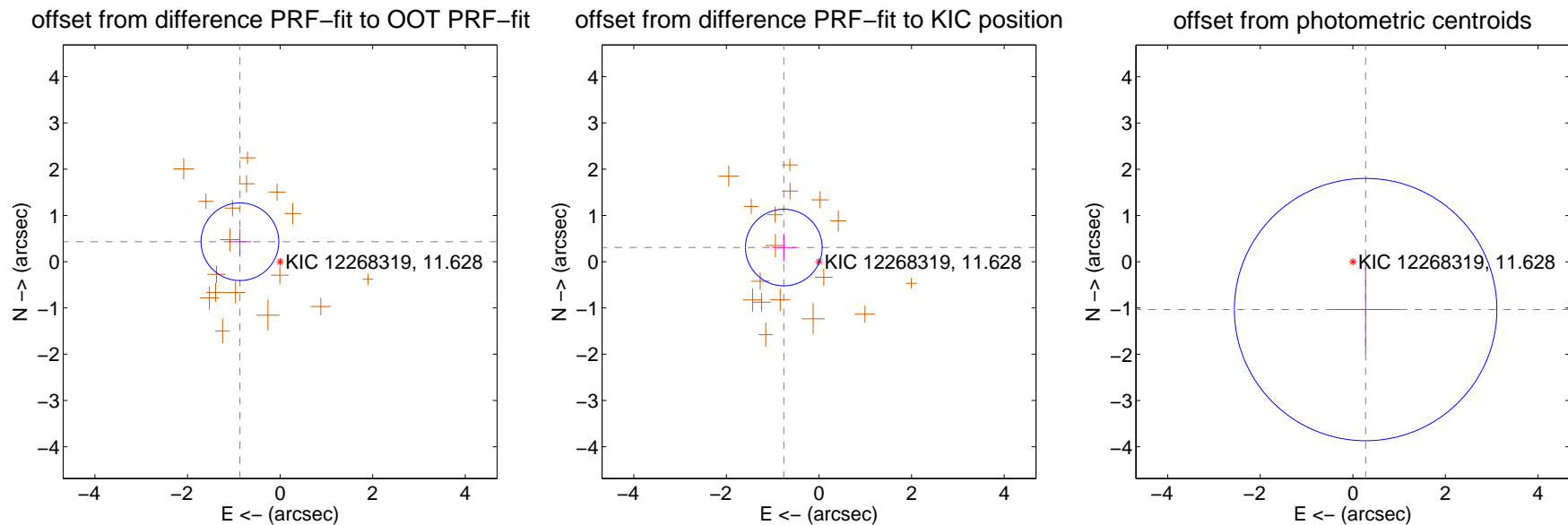
DV Centroid Data

Supplemental centroid analysis for 012268319-01. **Kepler magnitude: 11.63.** Transit SNR 18.74

There are 0 quarters with good PRF difference image offsets

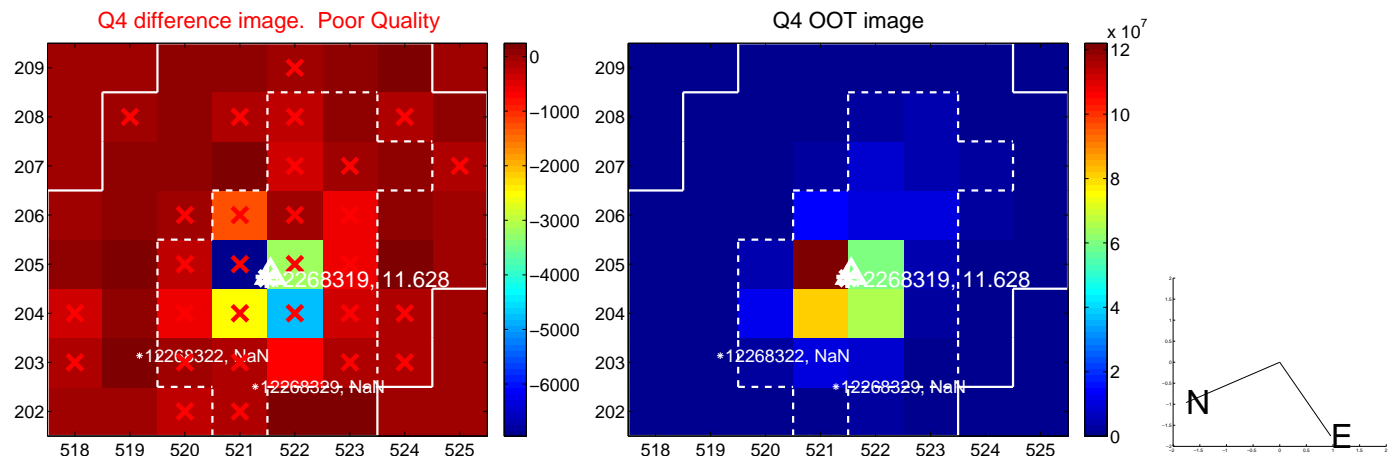
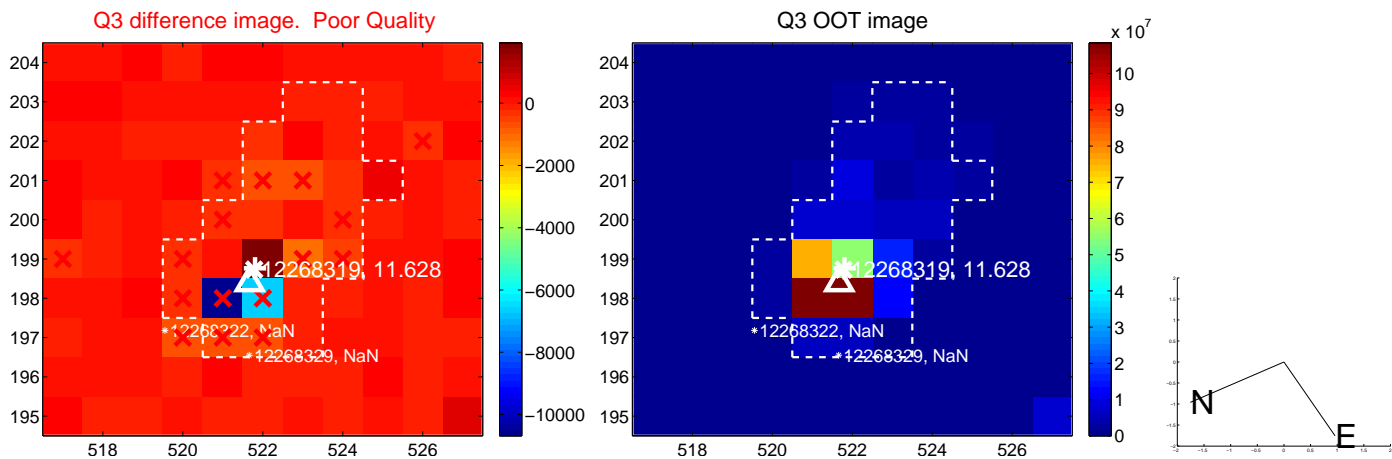
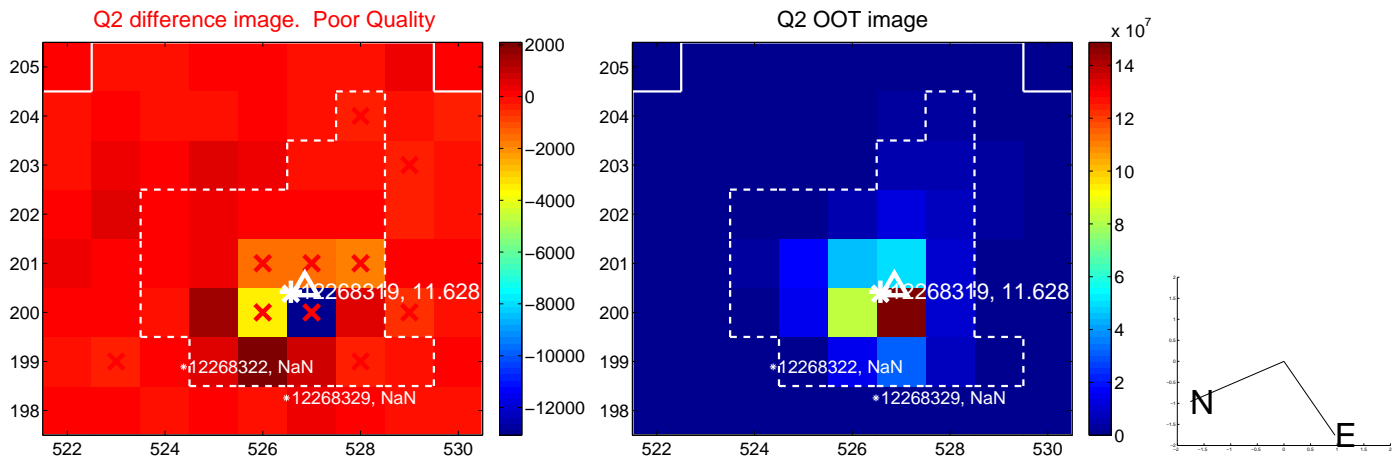
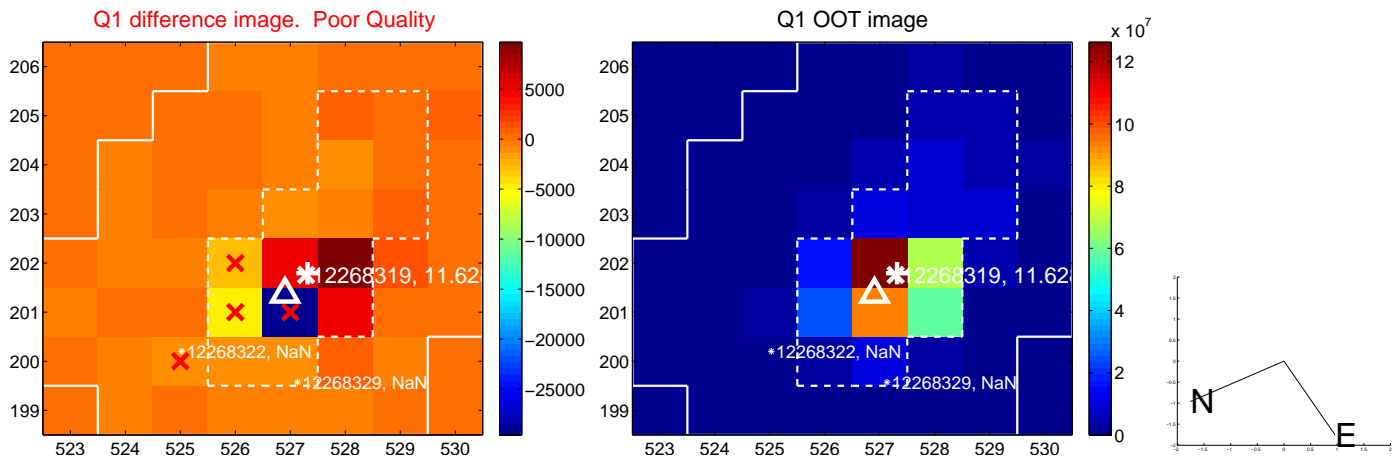
The direct PRF centroid is offset from the target star catalog position by about 0.21 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.969 ± 0.280	3.46	0.867 ± 0.243	0.431 ± 0.283
PRF-fit source offset from KIC position	0.819 ± 0.276	2.97	0.759 ± 0.254	0.306 ± 0.297
photometric centroid source offset	1.07 ± 0.94	1.13	-0.28 ± 0.75	-1.03 ± 0.96

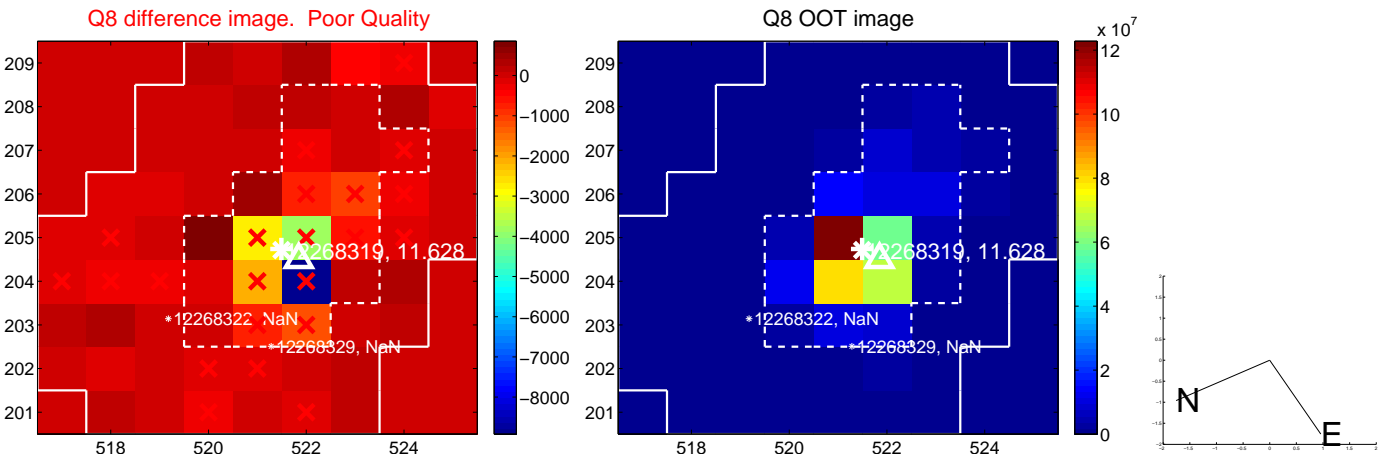
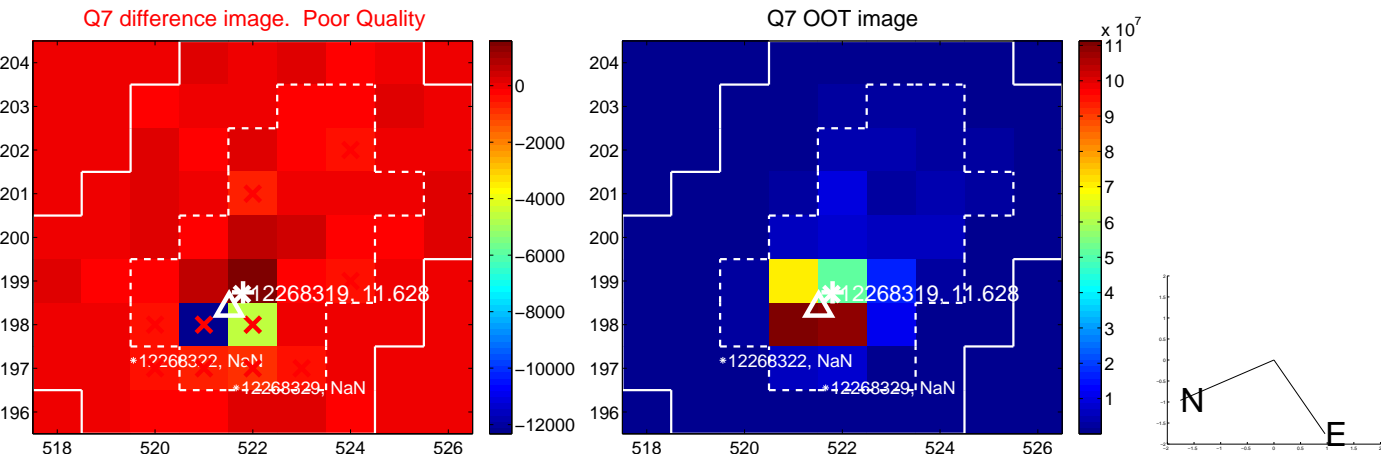
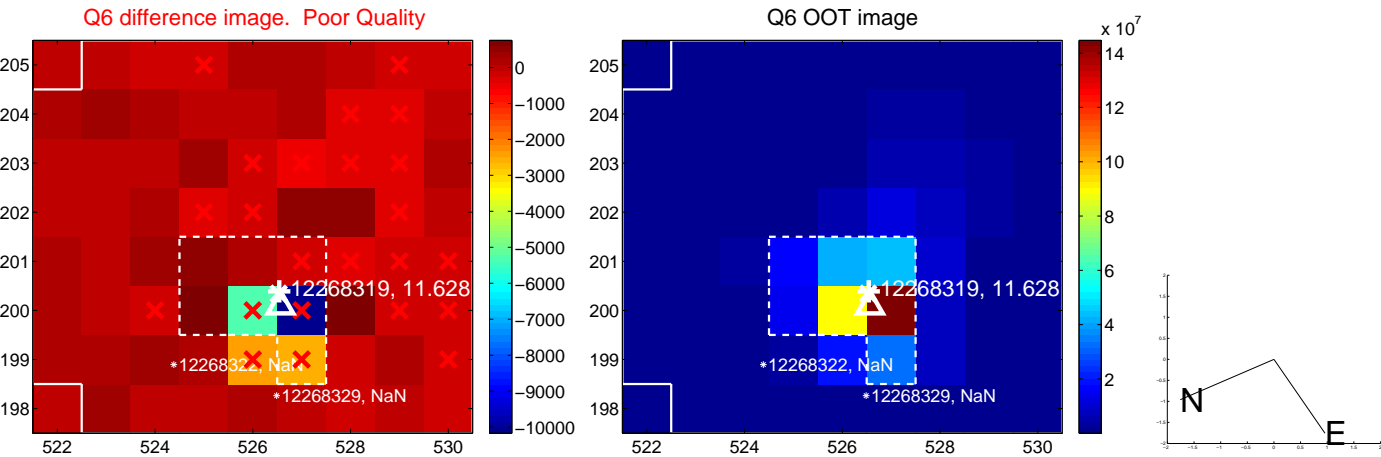
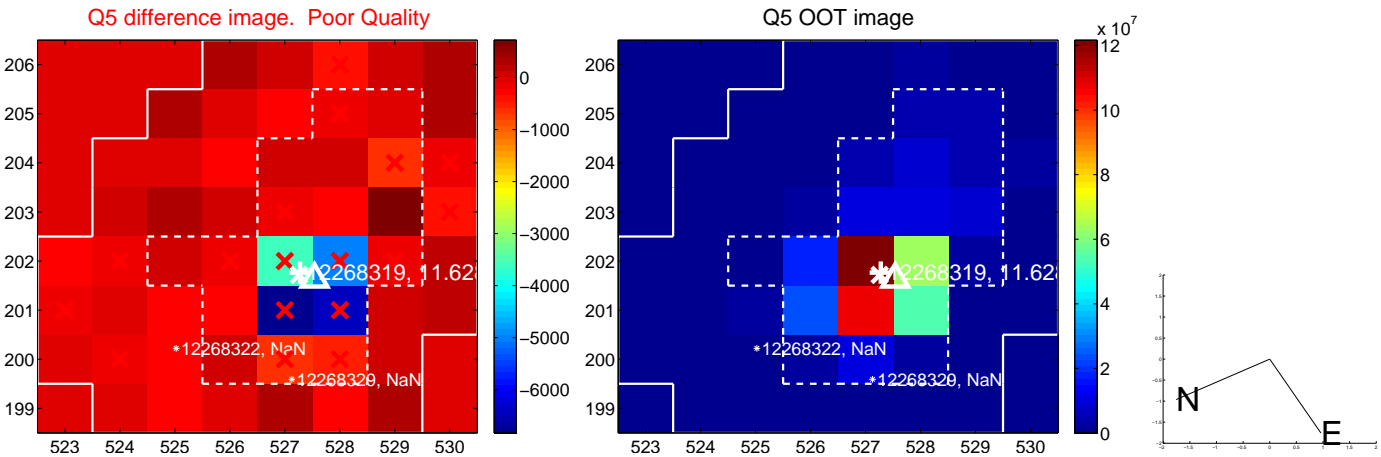


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

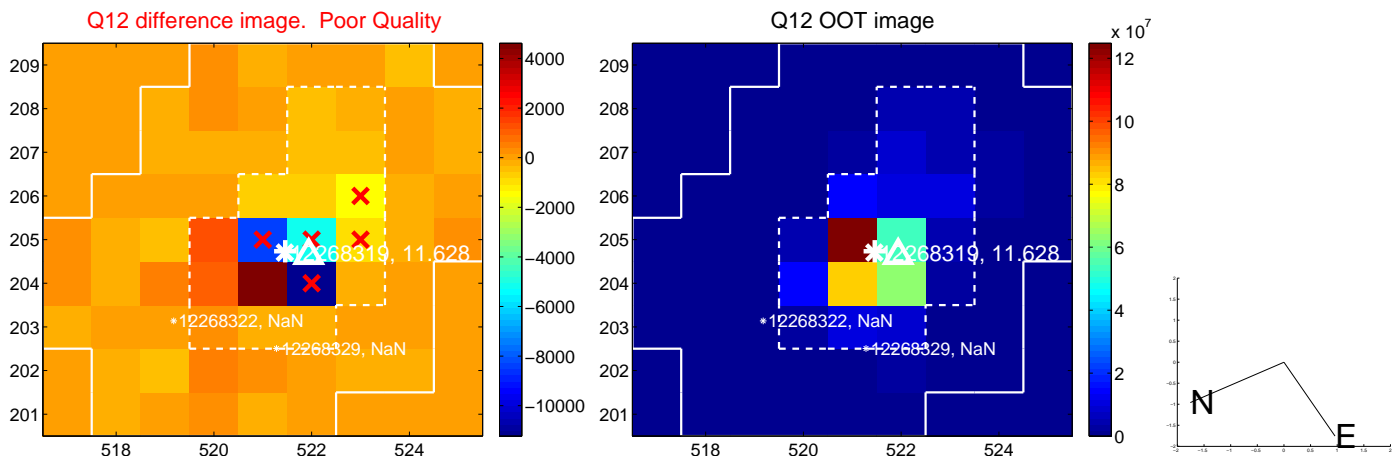
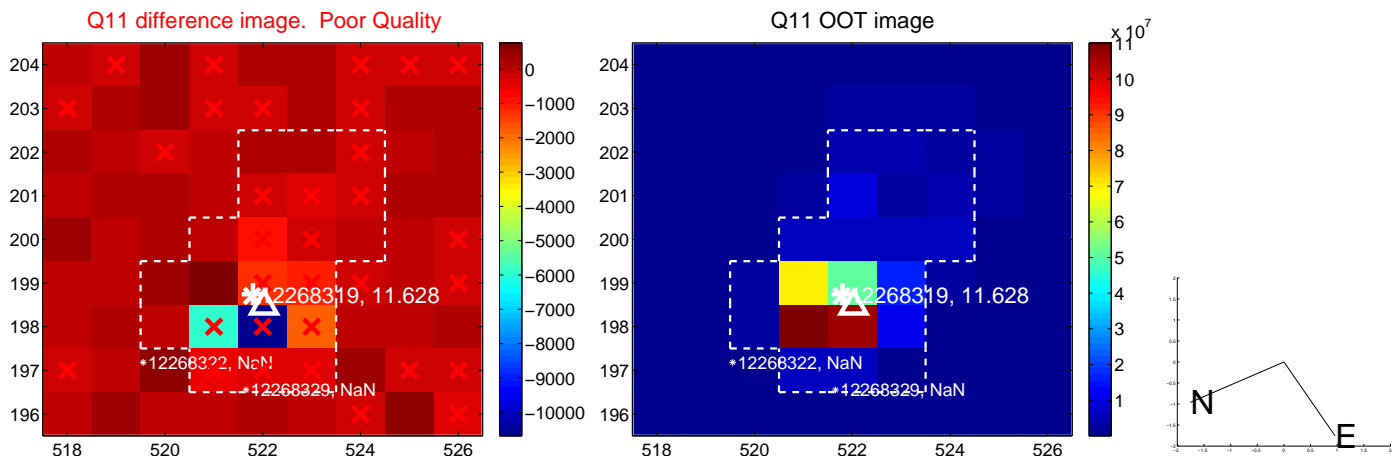
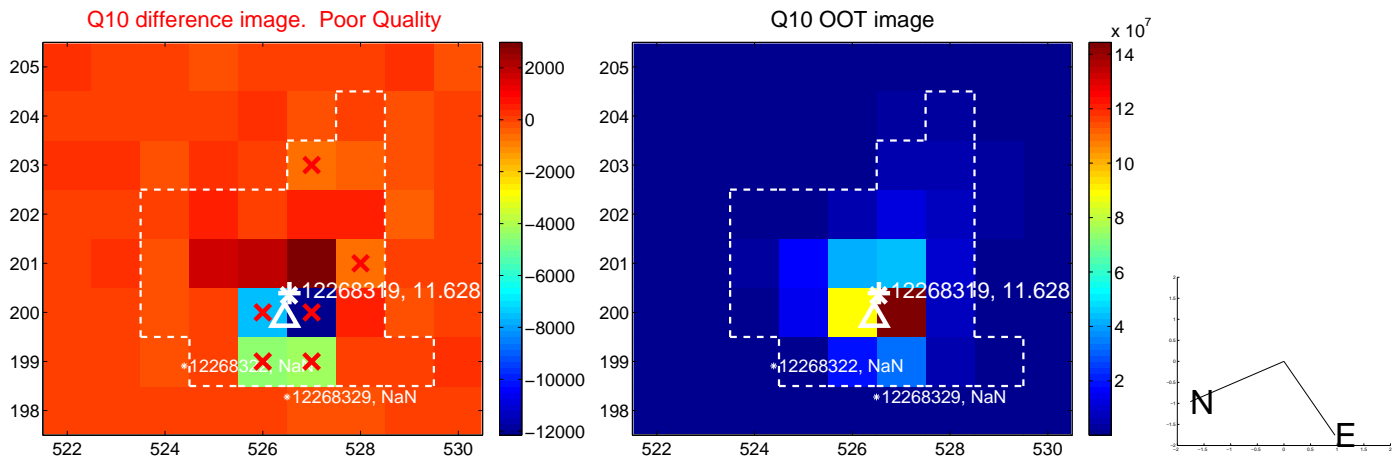
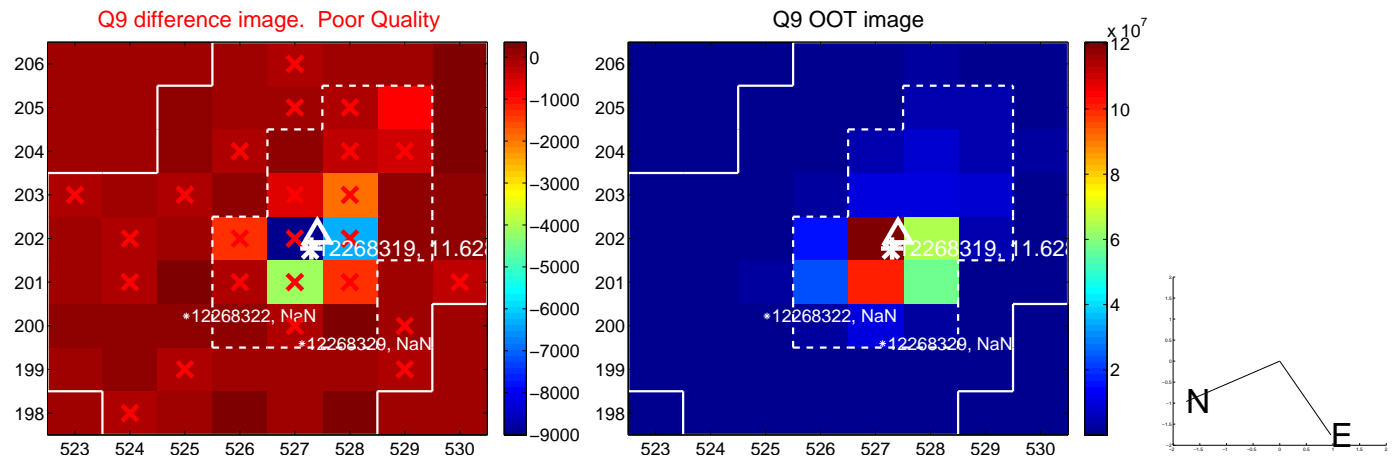
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



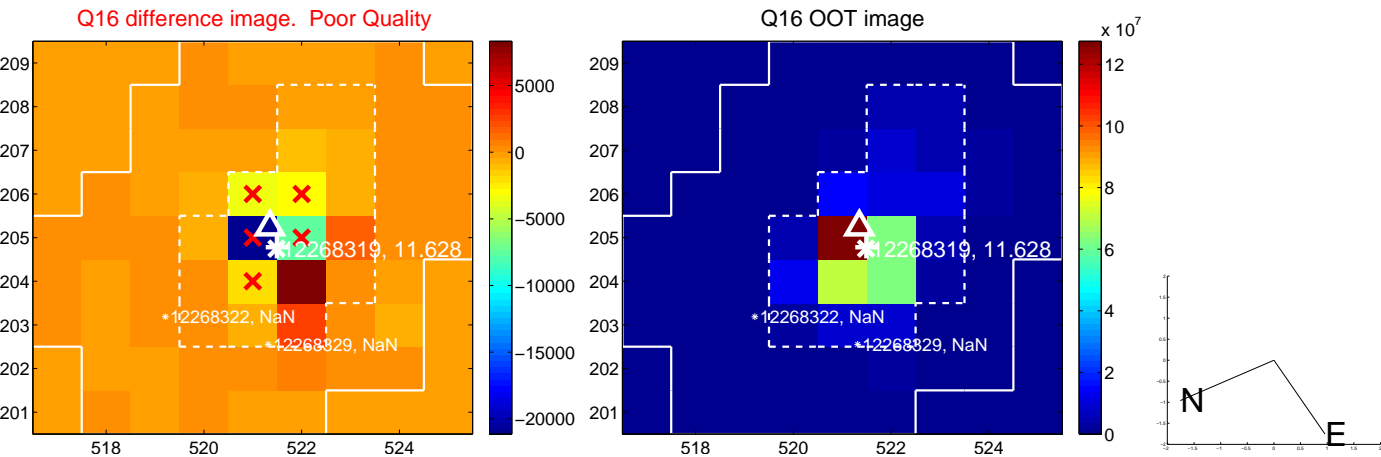
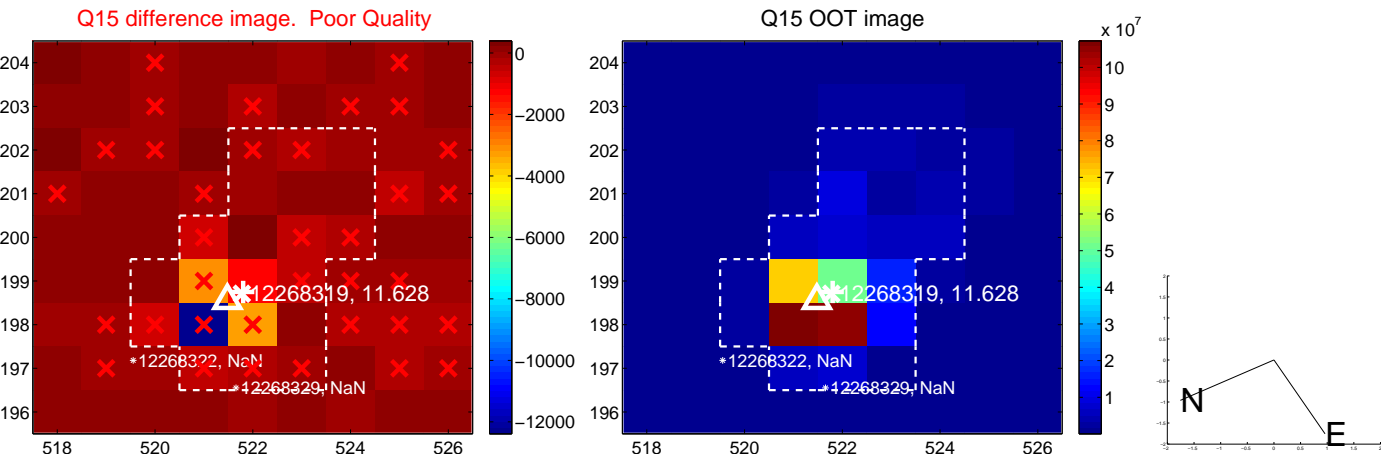
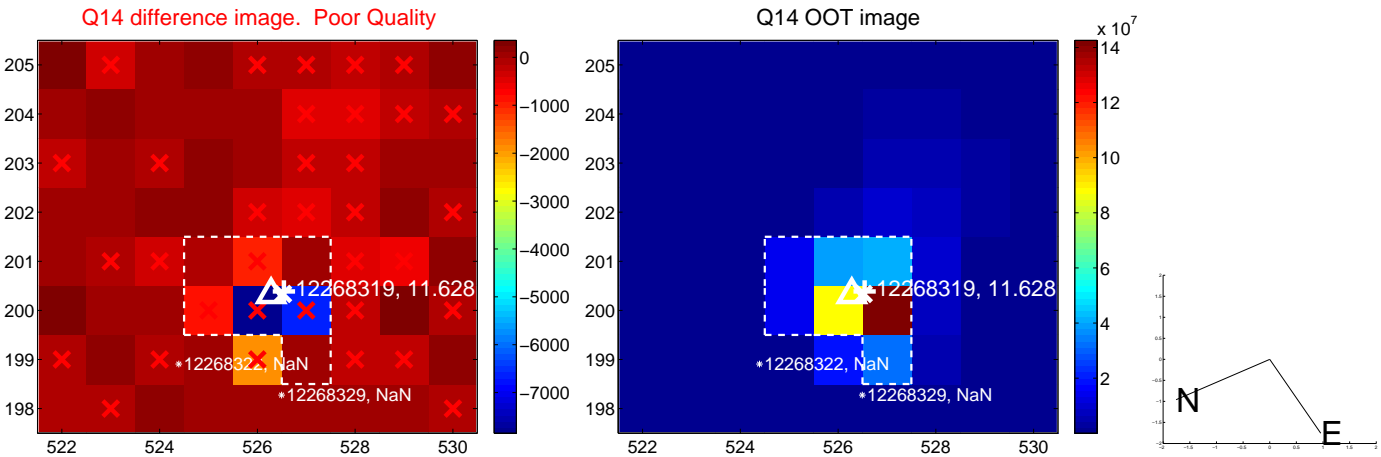
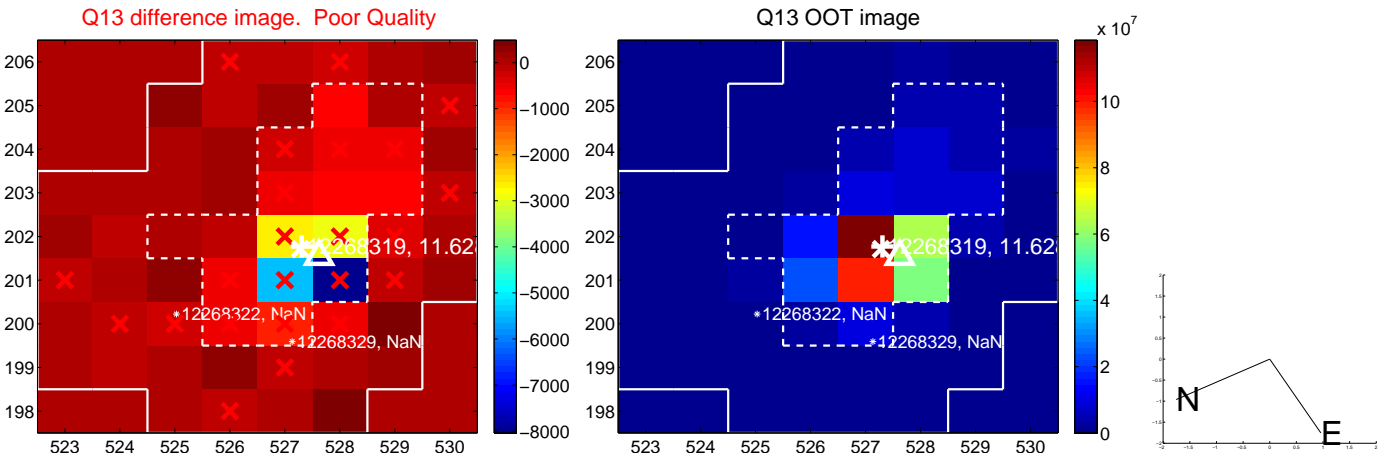
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



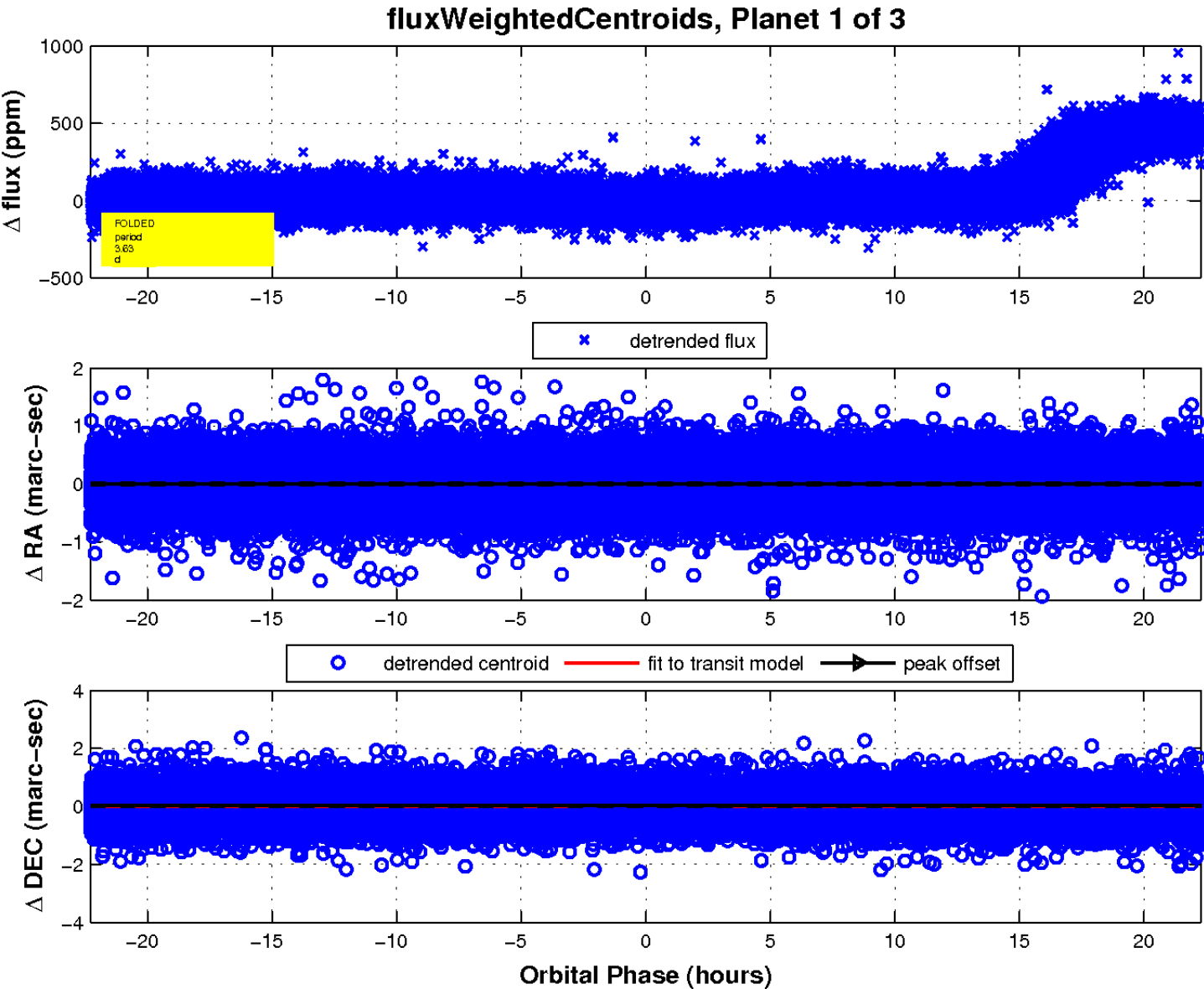
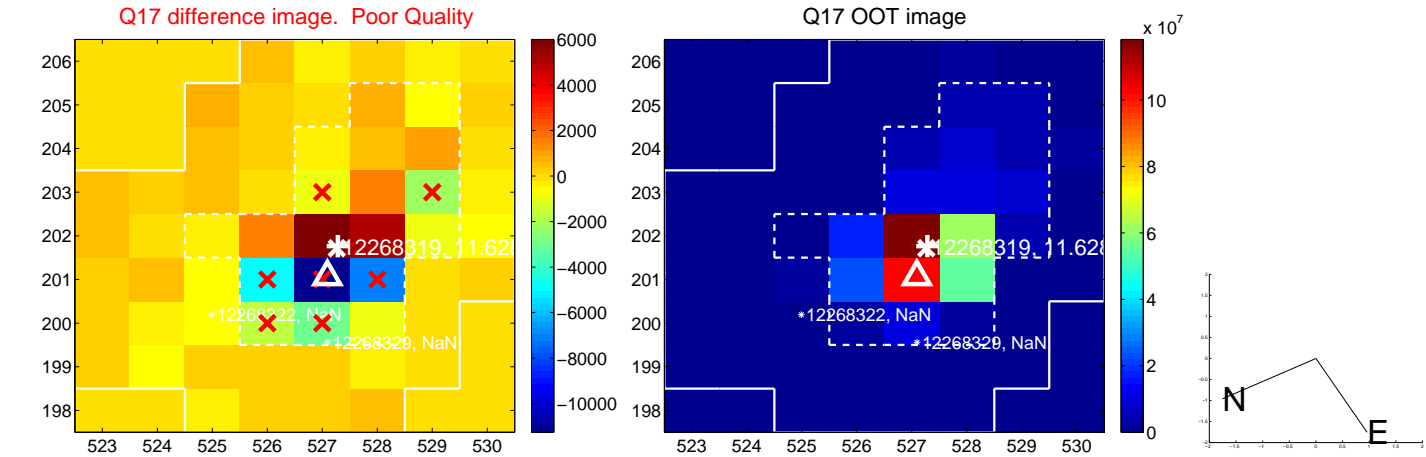
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

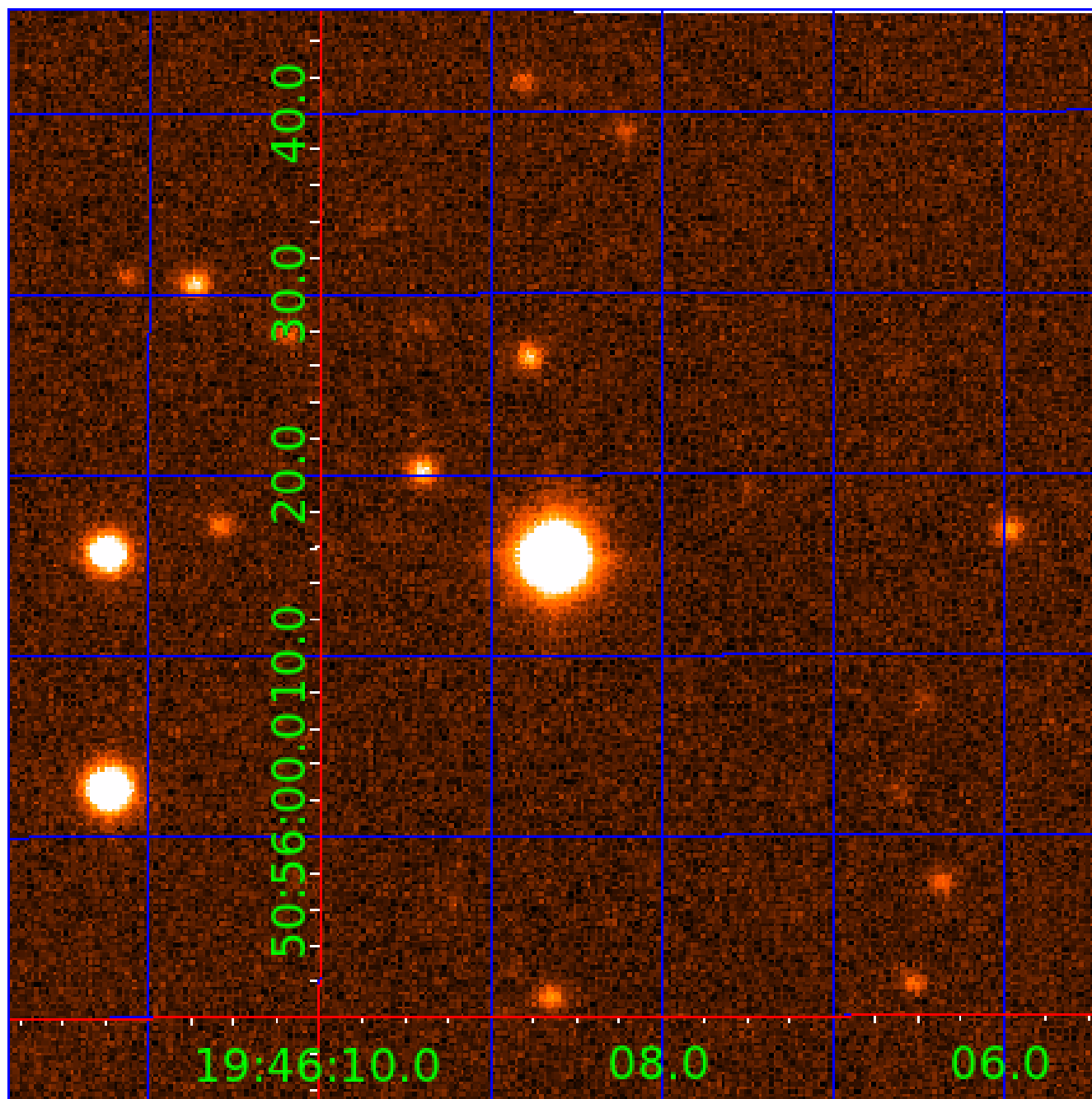


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 012268319

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})
012268319-01	OBS	No	3.630886	133.867488	21.8	7.431	17.4	18.7	2.71	10995	1.46	22158.03
012268319-02	OBS	No	1.815320	132.900459	10.8	5.071	12.0	12.0	2.71	10995	1.02	55839.78
012268319-03	OBS	No	3.630519	131.555267	73.3	6.000	9.4	-1.0	2.71	10995	2.39	22161.01

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
012268319-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_FEW_DIFFS
012268319-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS
012268319-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—SAME_NTL_PERIOD—CENT_NOFITS

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

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

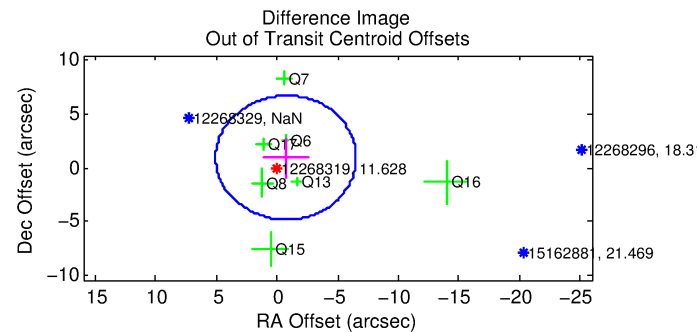
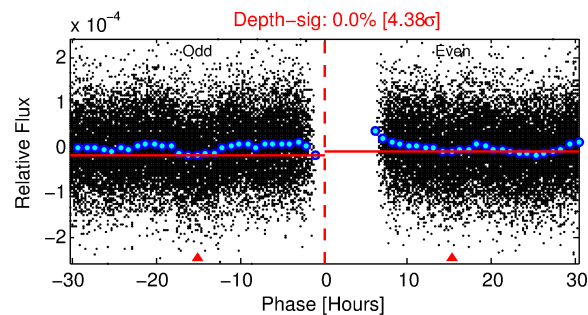
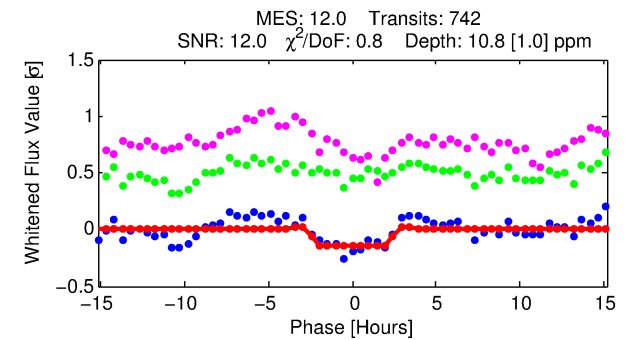
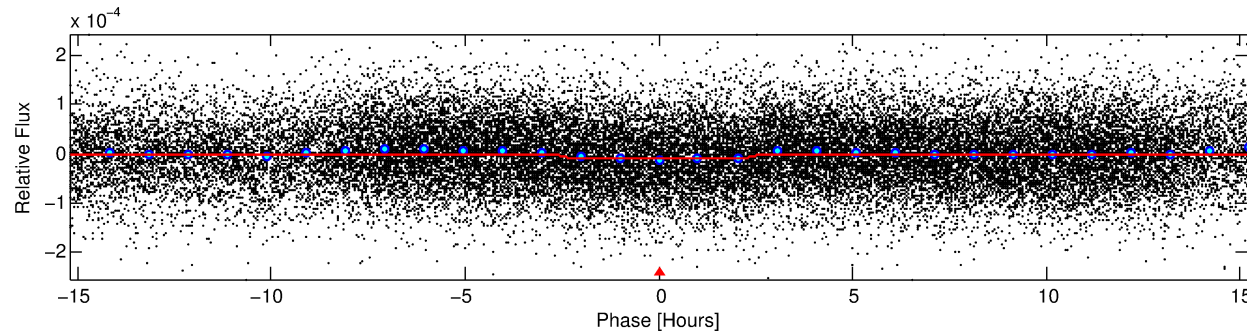
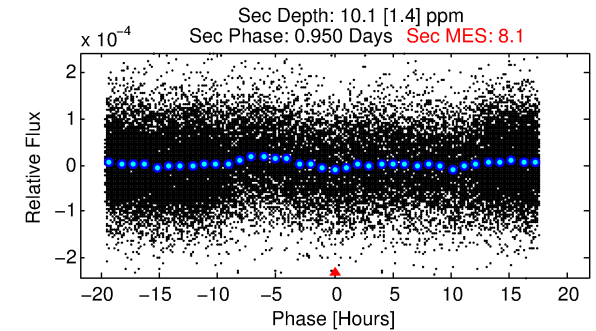
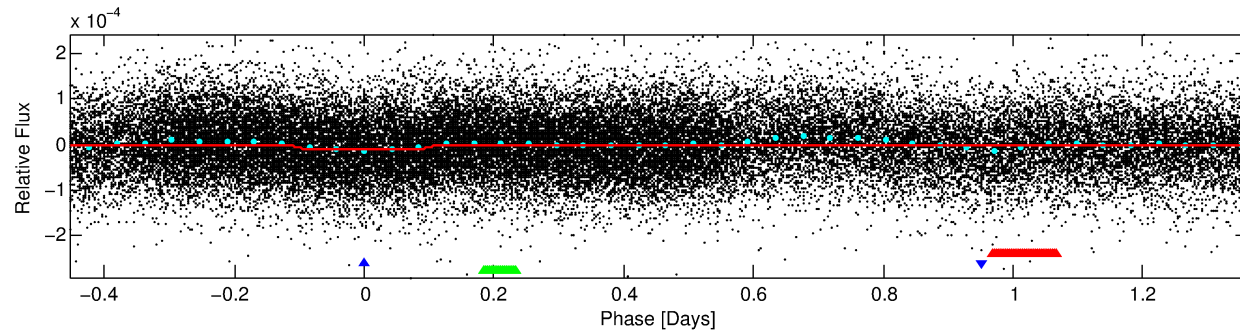
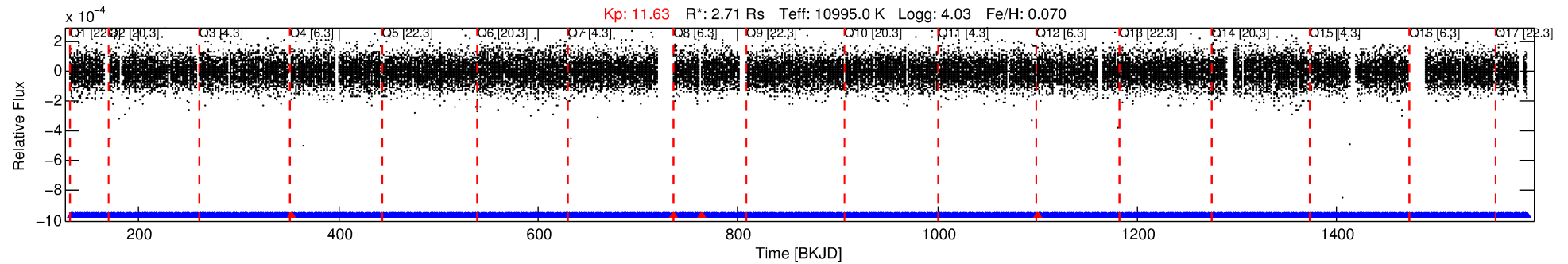
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 012268319-02

No Significant Match Found

DV One-Page Summary

KIC: 12268319 Candidate: 2 of 3 Period: 1.815 d



DV Fit Results:

Period = 1.81532 [0.00002] d
Epoch = 132.9005 [0.0044] BKJD
Rp/R* = 0.0034 [0.0005]
a/R* = 1.53 [1.05]
b = 0.90 [0.25]
Seff = 55839.78 [27311.67]
Teq = 3920 [479] K
Rp = 1.02 [0.39] Re
a = 0.0415 [0.0128] AU
Ag = 9.23 [5.13] [1.61σ]
Teffp = 10564 [962] K [6.18σ]

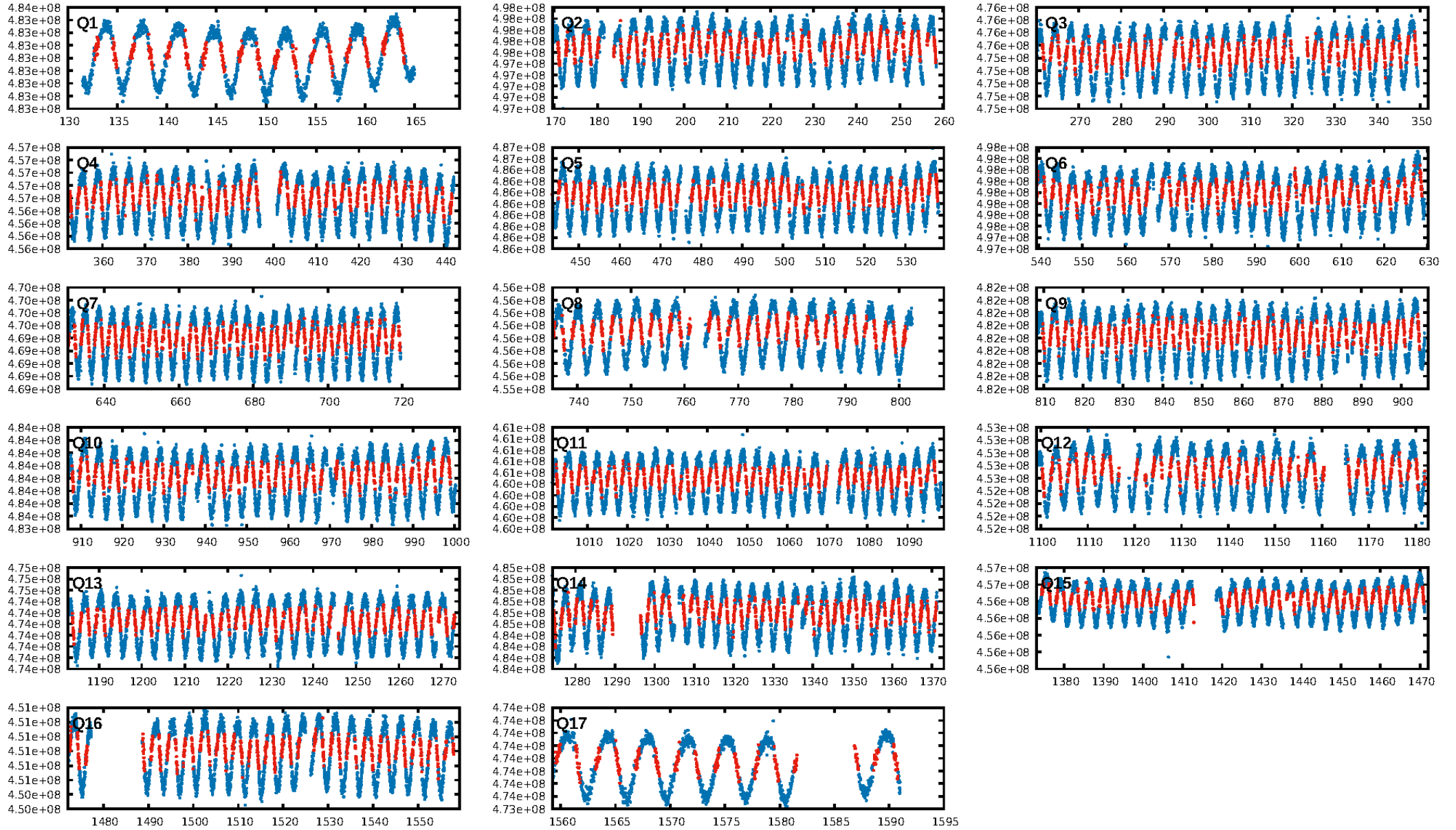
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [5.55σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.45e-24
RollingBand-fgt: 0.99 [704/708]
GhostDiagnostic-chr: -3.836
Centroid-sig: 3.5%
Centroid-so: 2.197 arcsec [1.62σ]
OotOffset-rm: 1.183 arcsec [0.61σ]
KicOffset-rm: 1.177 arcsec [0.64σ]
OotOffset-st: 1/2/2/2 [7]
KicOffset-st: 1/2/2/2 [7]
DiffImageQuality-fgm: 0.00 [0/7]
DiffImageOverlap-fno: 1.00 [17/17]

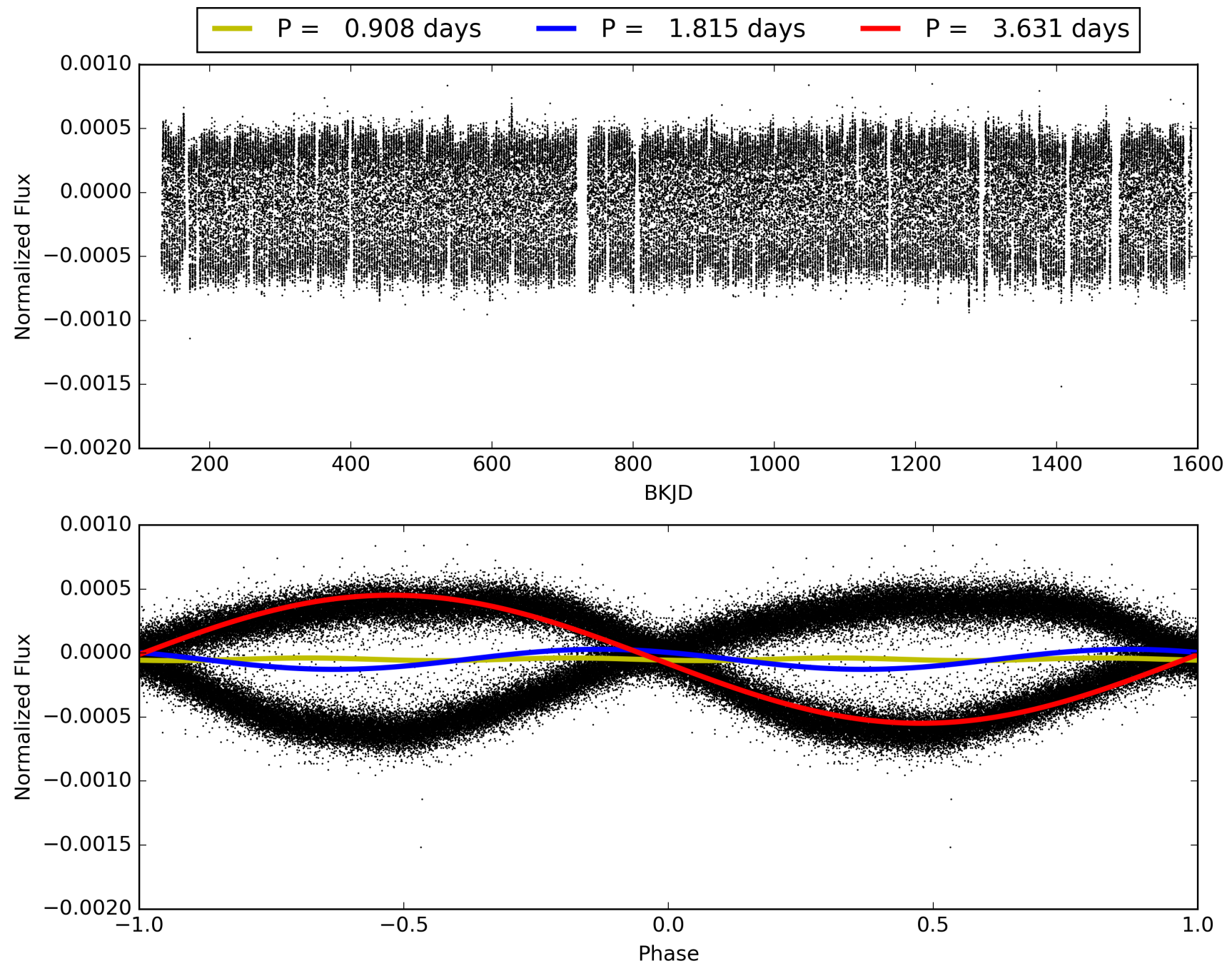
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:26:54 Z

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

TCE 012268319-02, PDC Light Curves

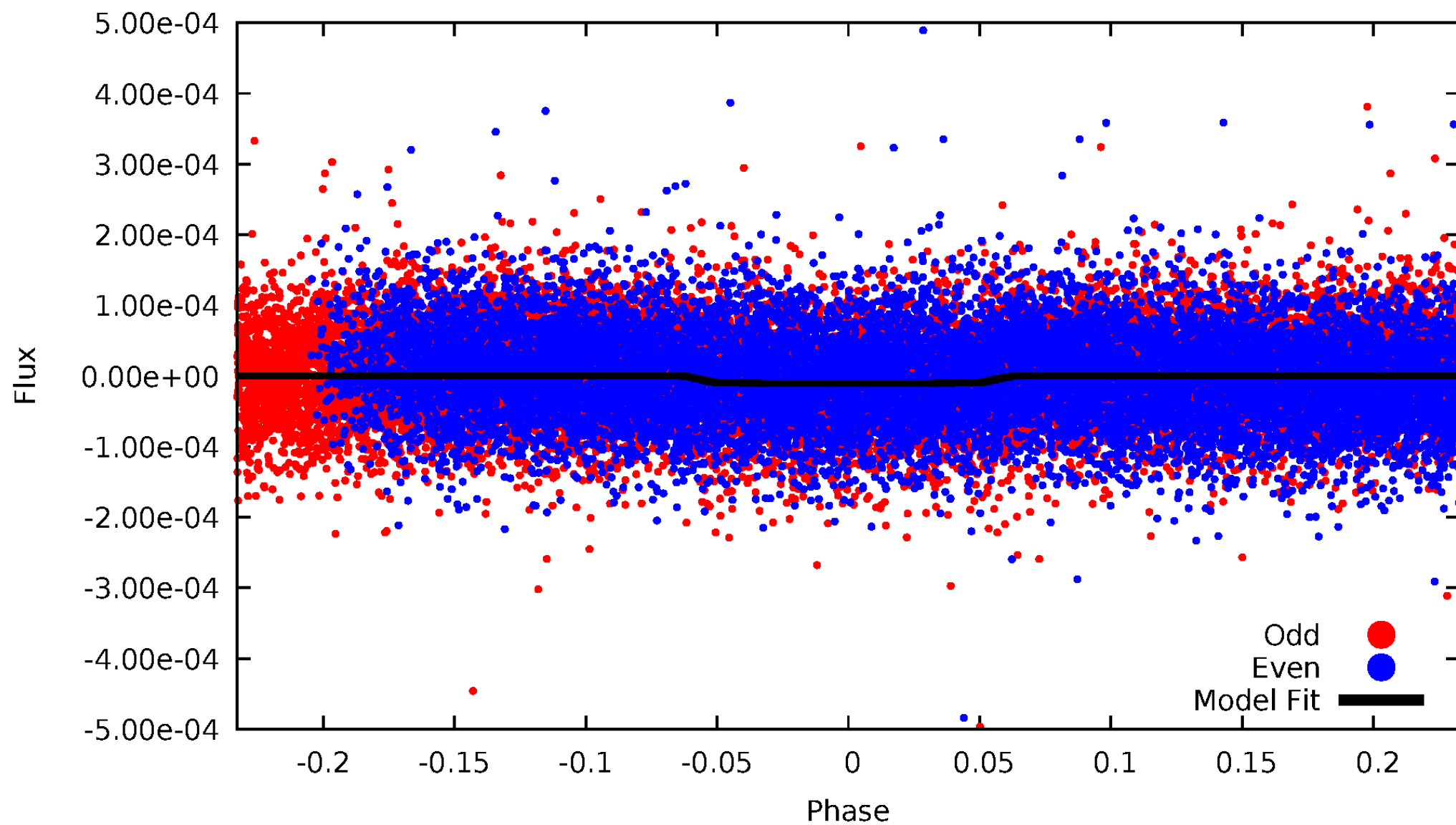


TCE 012268319-02



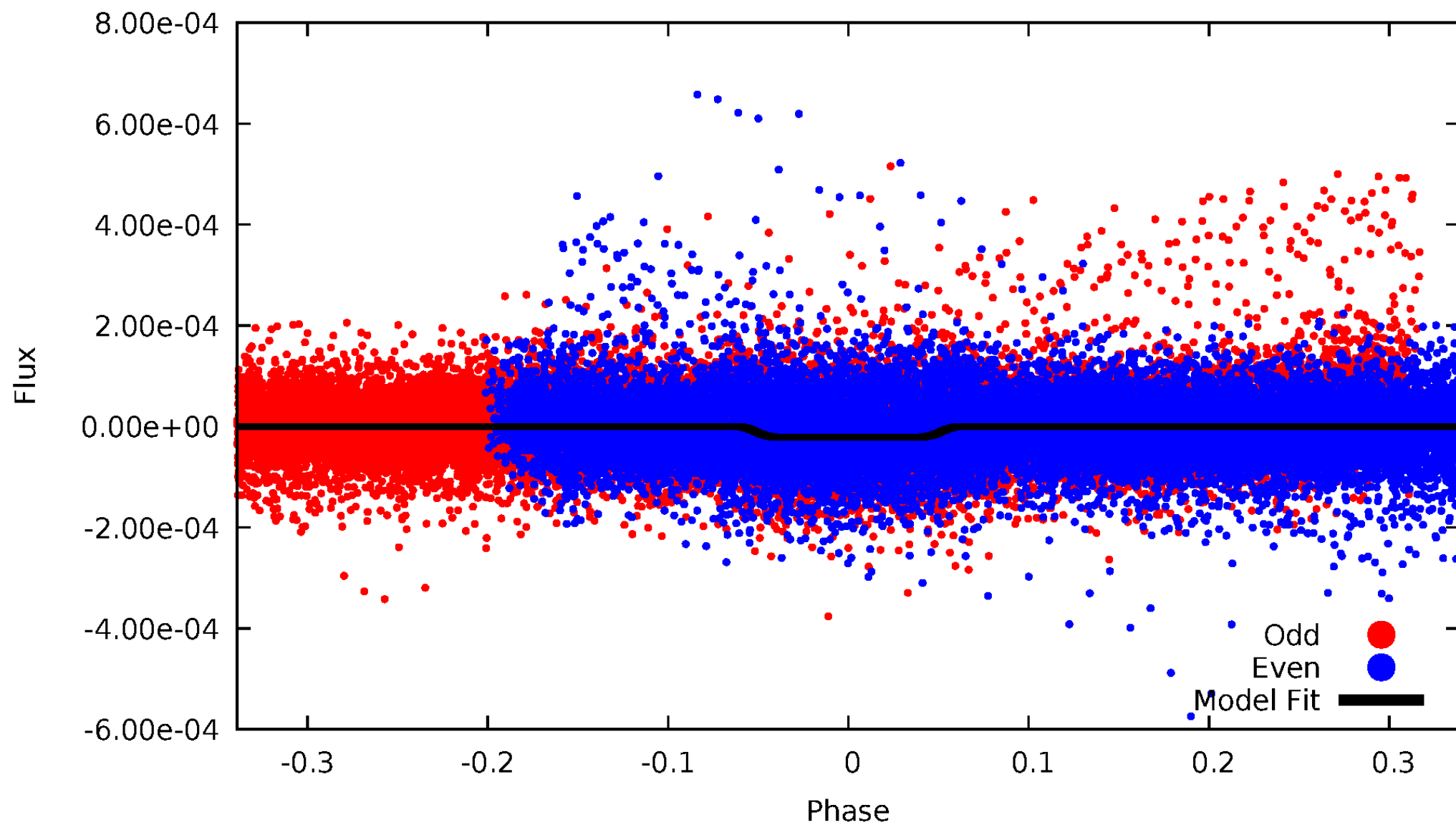
DV Odd/Even

TCE 012268319-02



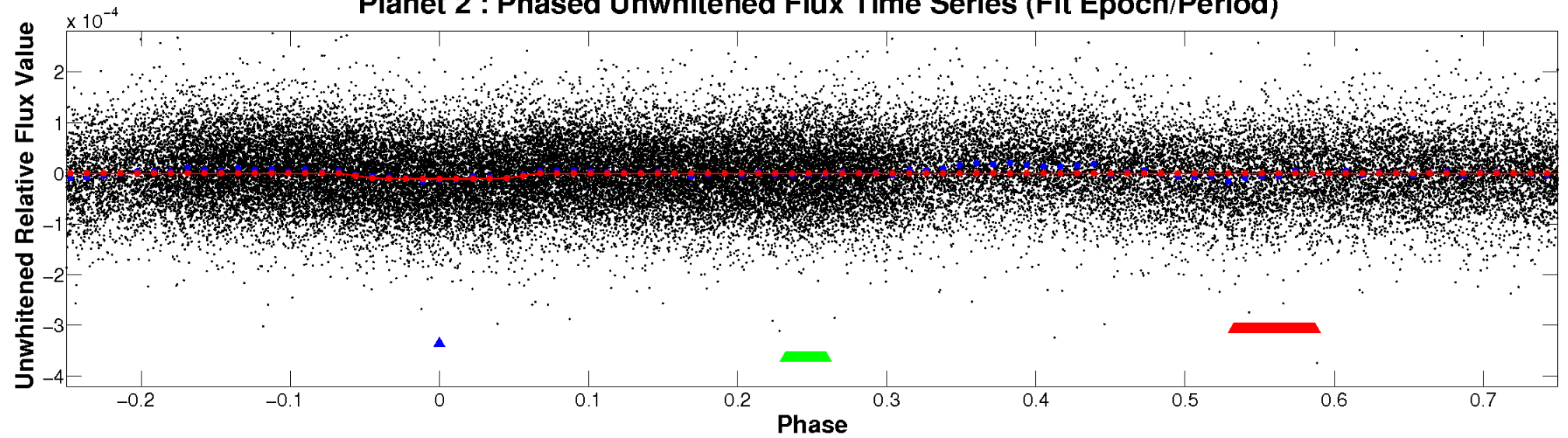
ALT Odd/Even

TCE 012268319-02

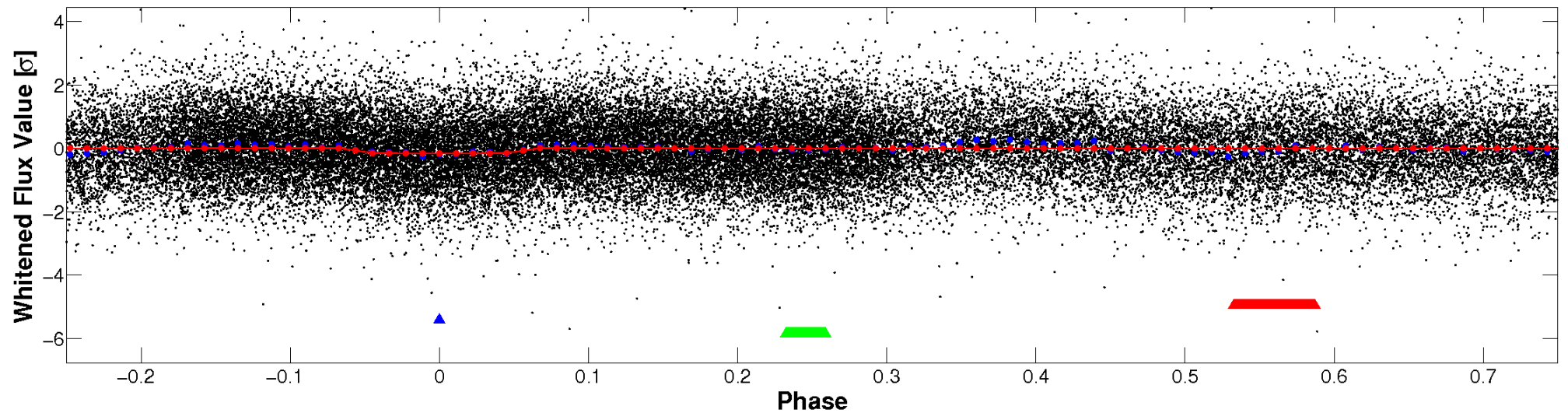


Non-Whitened Vs. Whitened Light Curve

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

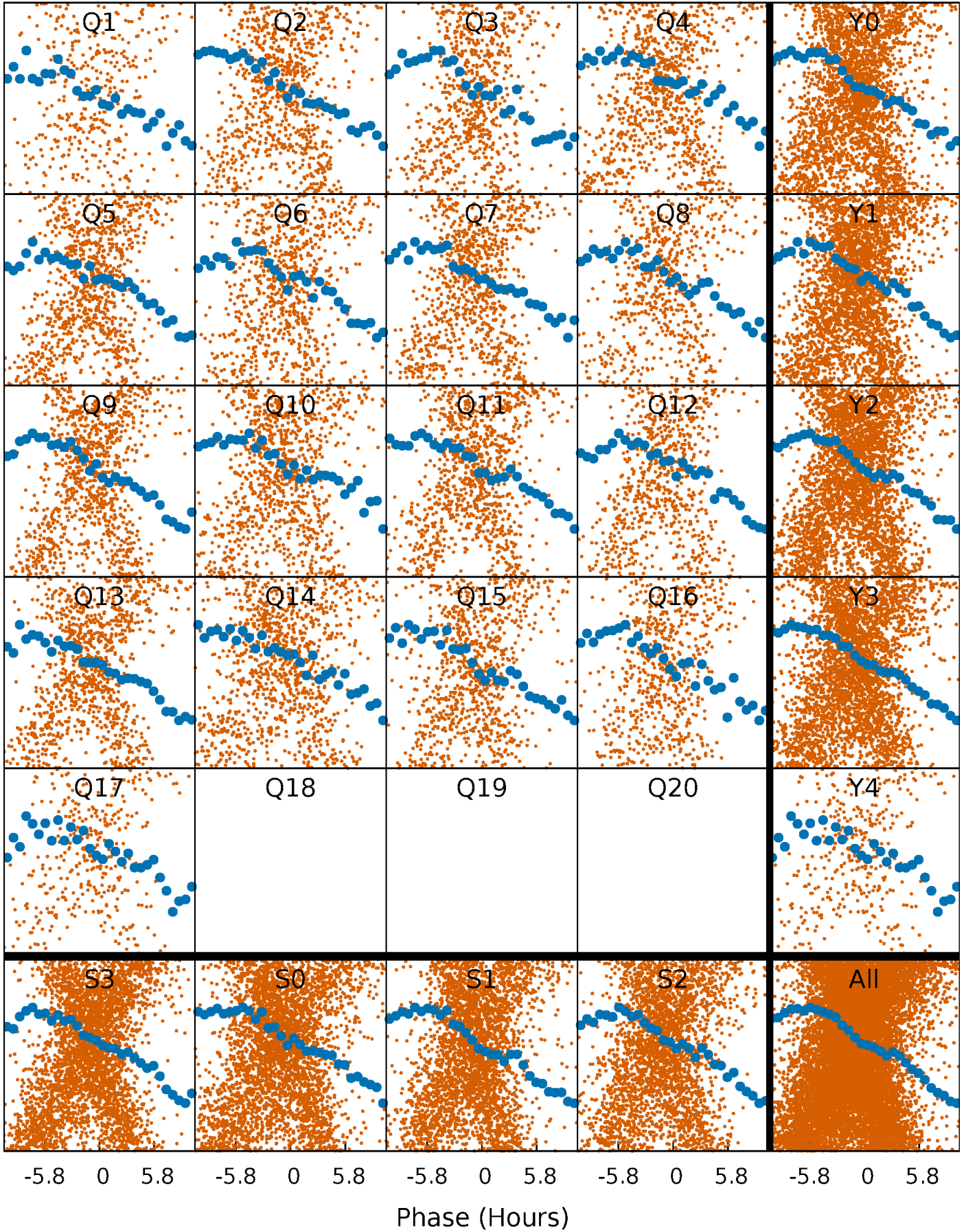


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



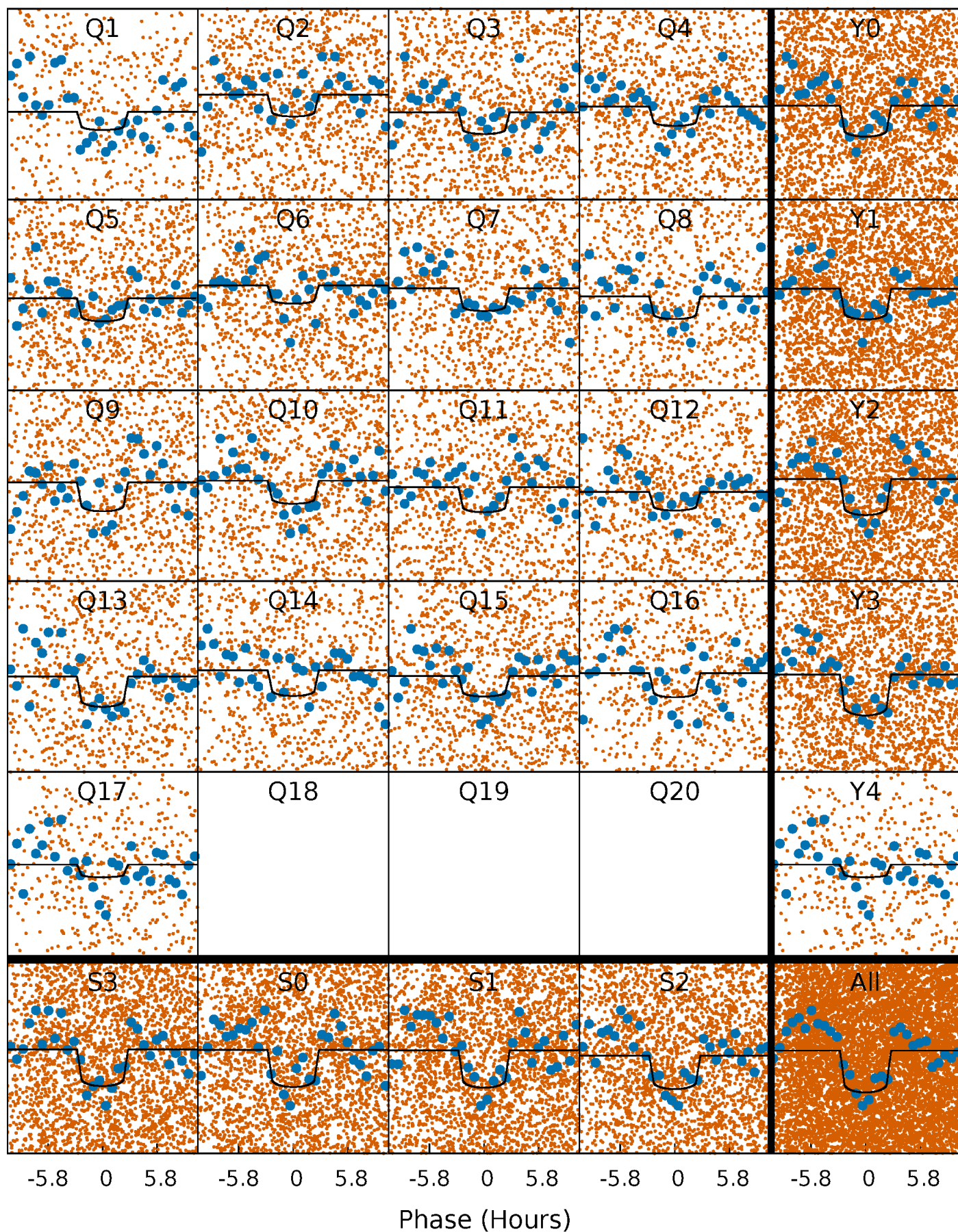
PDC Quarter-Phased Transit Curves

TCE 012268319-02 P= 1.815320 Days $T_0=132.900459$ (BKJD)



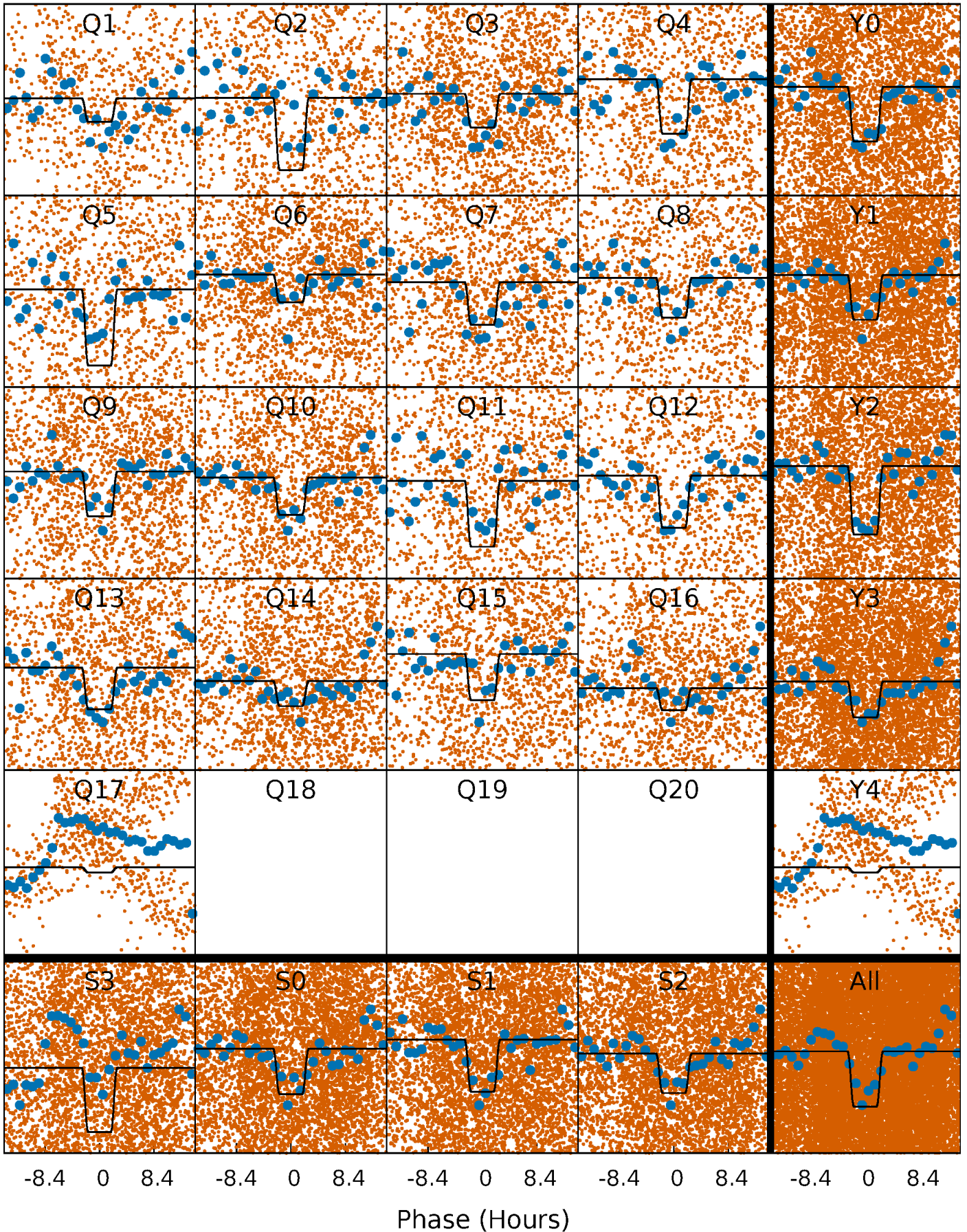
DV Quarter-Phased Transit Curves

TCE 012268319-02 P= 1.815320 Days $T_0=132.900459$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

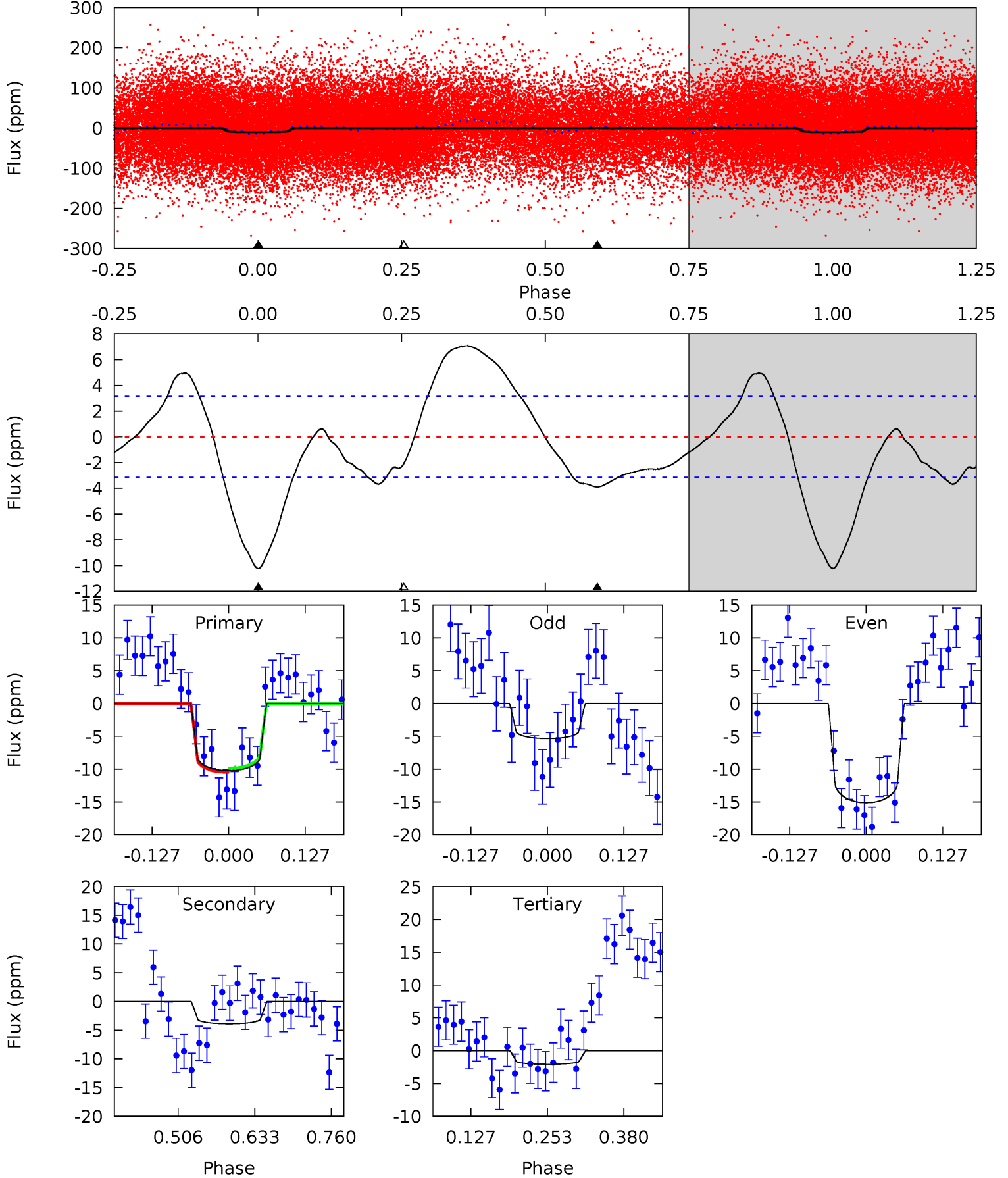
TCE 012268319-02 P= 1.815344 Days $T_0=132.893906$ (BKJD)



DV Model-Shift Uniqueness Test

012268319-02, P = 1.815320 Days, E = 131.085139 Days

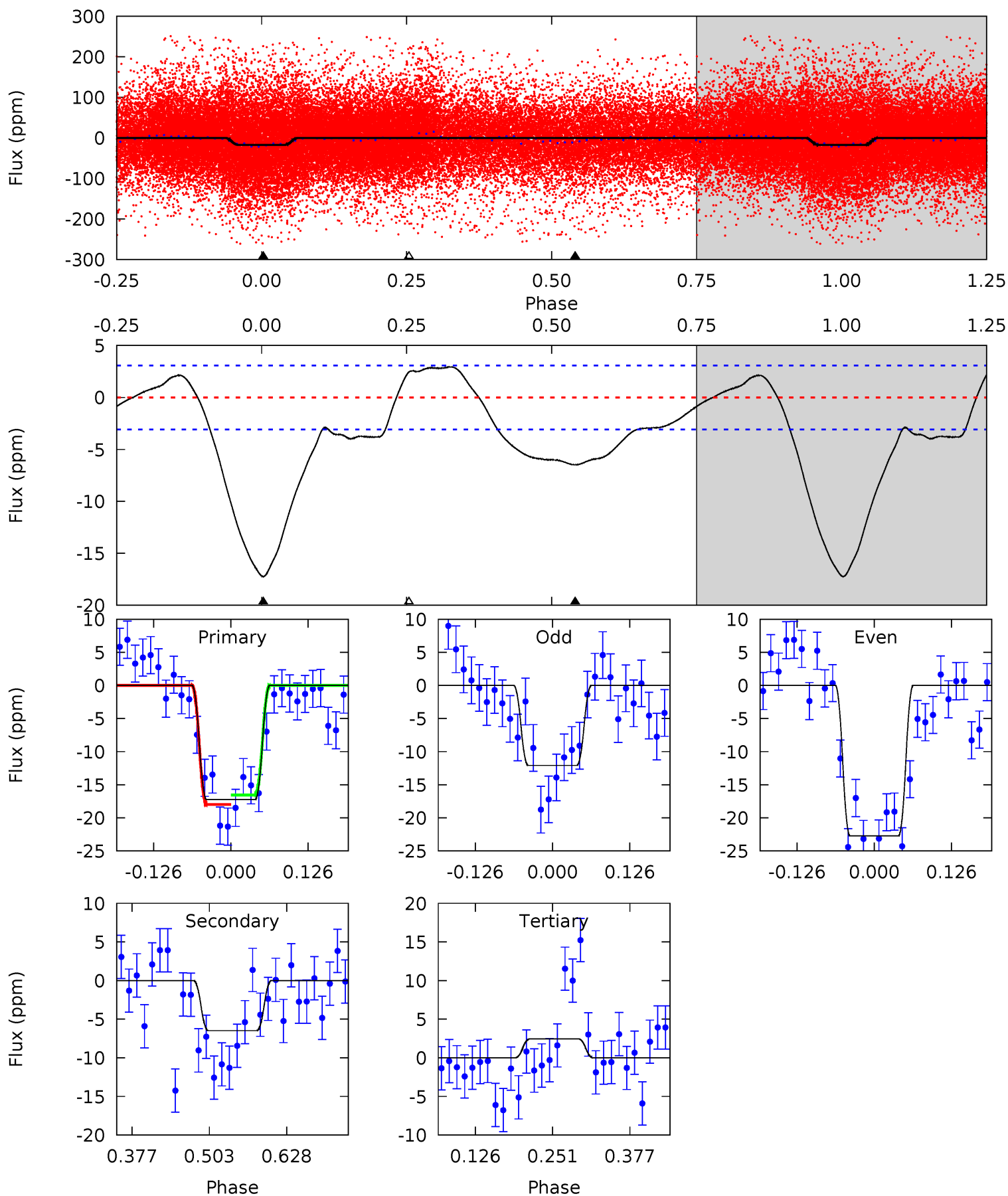
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.6	5.56	2.95	0	4.52	1.53	4.92	11.6	14.6	2.61	5.56	7.03	0.93	0.41	0.43



Alt Model-Shift Uniqueness Test

012268319-02, P = 1.815344 Days, E = 131.078562 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.3	9.51	-3.59	0	4.52	1.53	3.67	28.9	25.3	13.1	9.51	7.81	0.80	0.15	1.06



Stellar Parameters For KIC 012268319

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	10995^{+261}_{-490}	$4.033^{+0.252}_{-0.168}$	$0.070^{+0.150}_{-0.600}$	$2.709^{+0.733}_{-0.977}$	$2.891^{+0.241}_{-0.723}$	$0.205^{+0.341}_{-0.098}$
	+2%/-4%	+6%/-4%	+214%/-857%	+27%/-36%	+8%/-25%	+166%/-48%
Source	KIC0	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 012268319-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-4 ± 1	$0.98^{+0.22}_{-0.23}$	5415^{+415}_{-501}	7341^{+886}_{-734}	$3.734^{+2.524}_{-1.379}$
Alt.	-6 ± 1	$1.33^{+0.28}_{-0.27}$	5428^{+429}_{-522}	7190^{+613}_{-572}	$3.487^{+1.738}_{-1.180}$

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

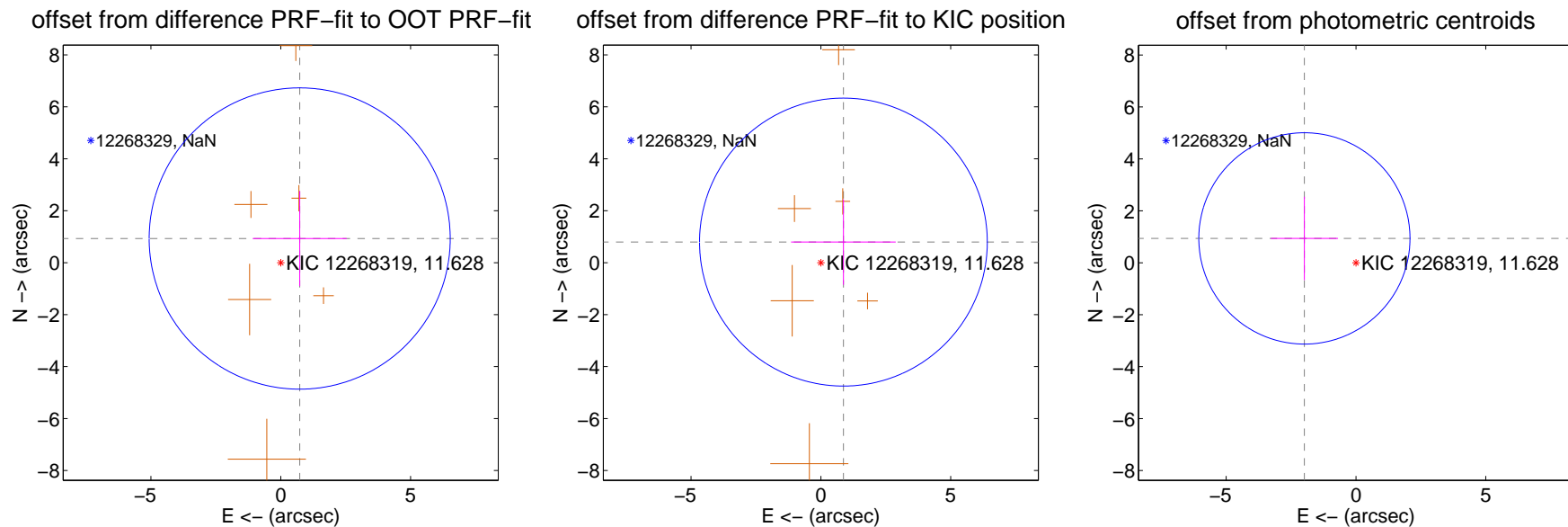
DV Centroid Data

Supplemental centroid analysis for 012268319-02. **Kepler magnitude: 11.63.** Transit SNR 11.97

There are 0 quarters with good PRF difference image offsets

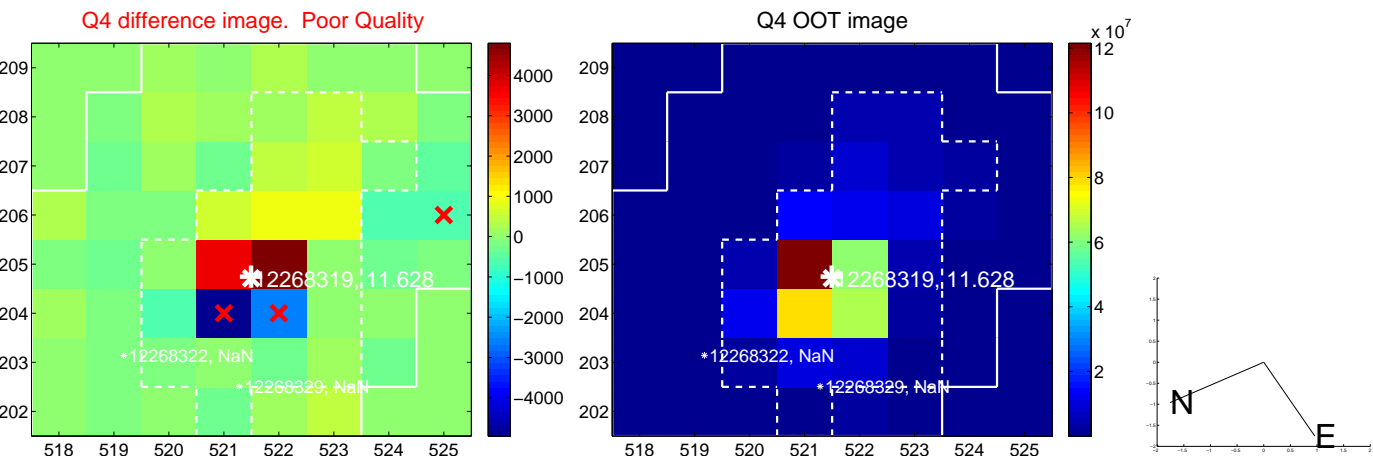
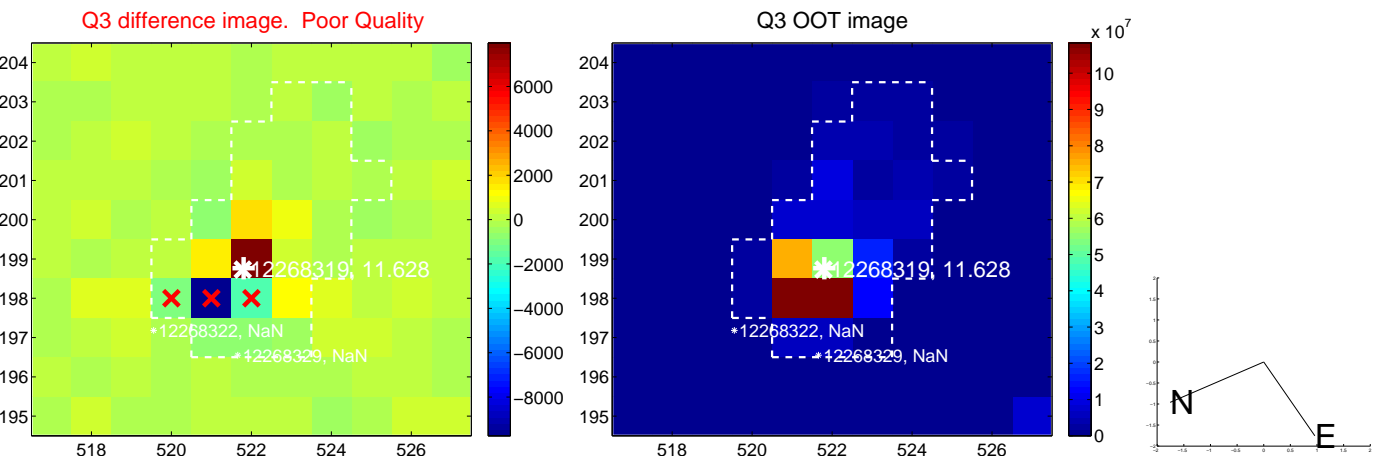
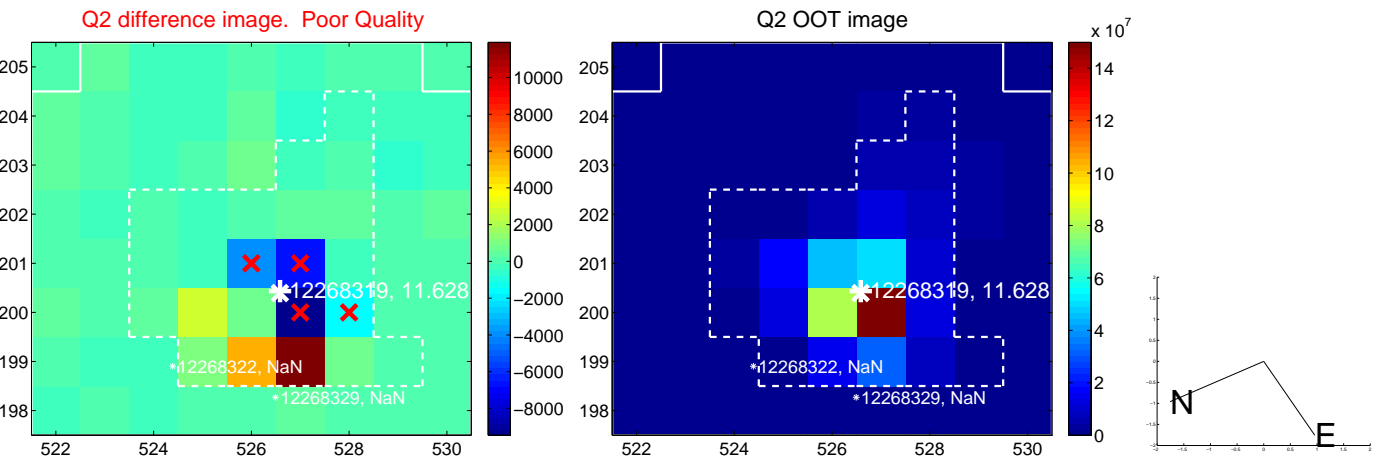
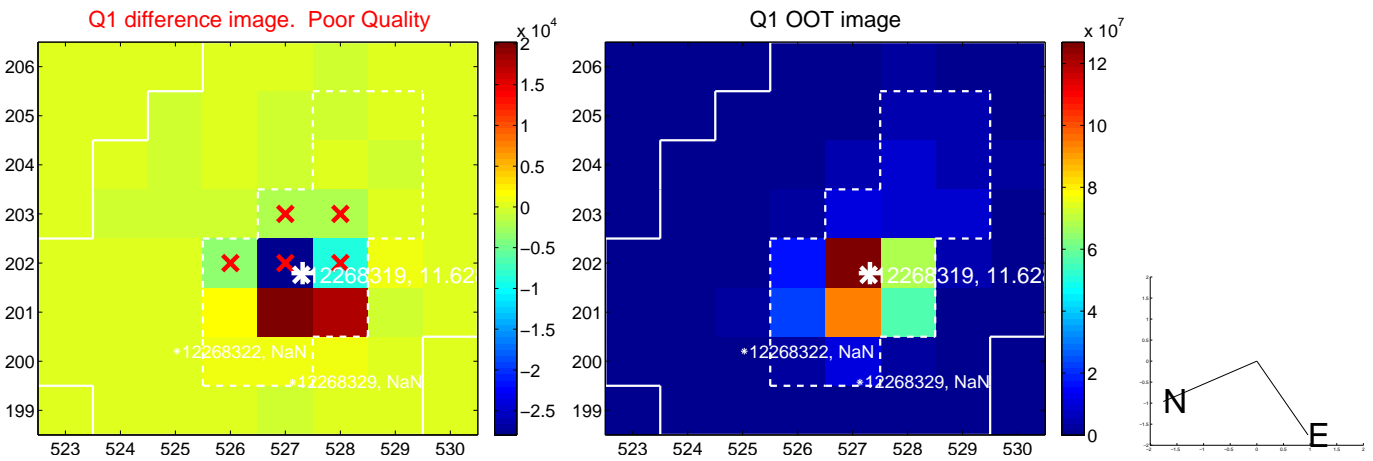
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.183 ± 1.933	0.61	-0.730 ± 1.809	0.930 ± 1.829
PRF-fit source offset from KIC position	1.177 ± 1.848	0.64	-0.869 ± 2.016	0.793 ± 1.643
photometric centroid source offset	2.20 ± 1.36	1.62	1.99 ± 1.29	0.94 ± 1.61

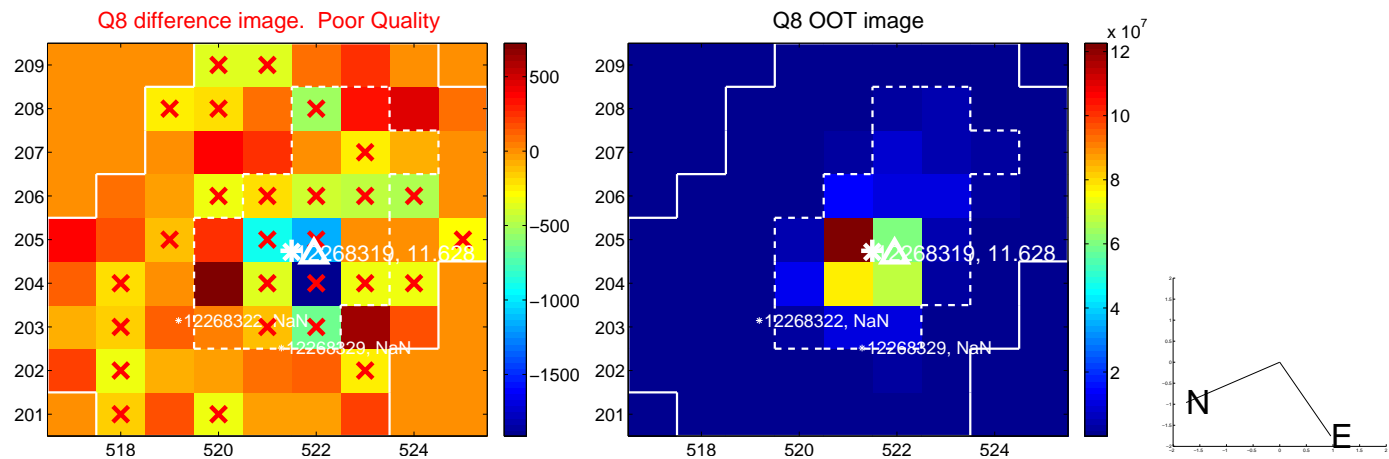
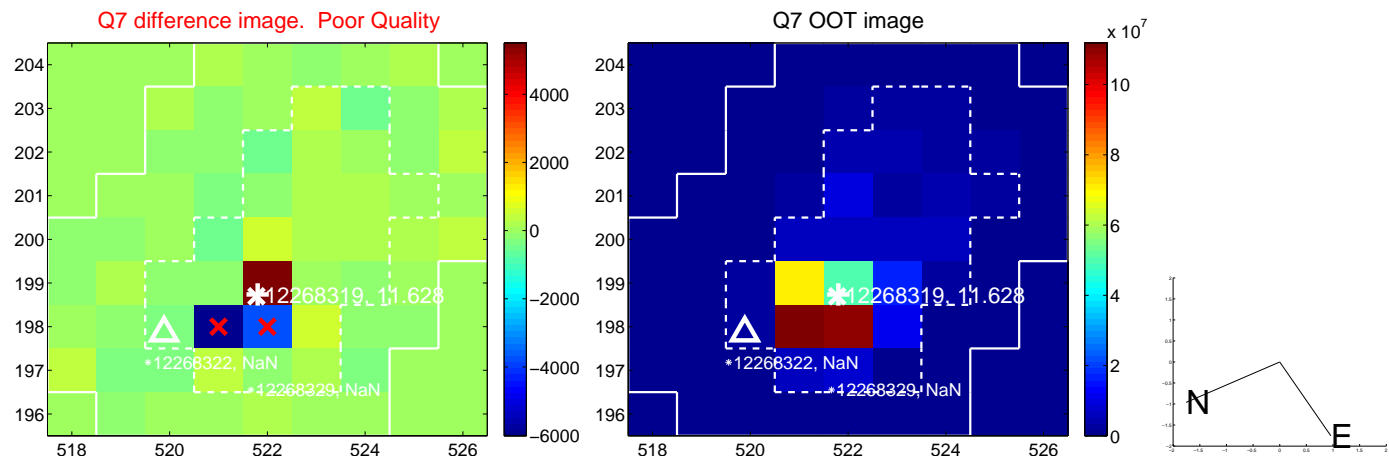
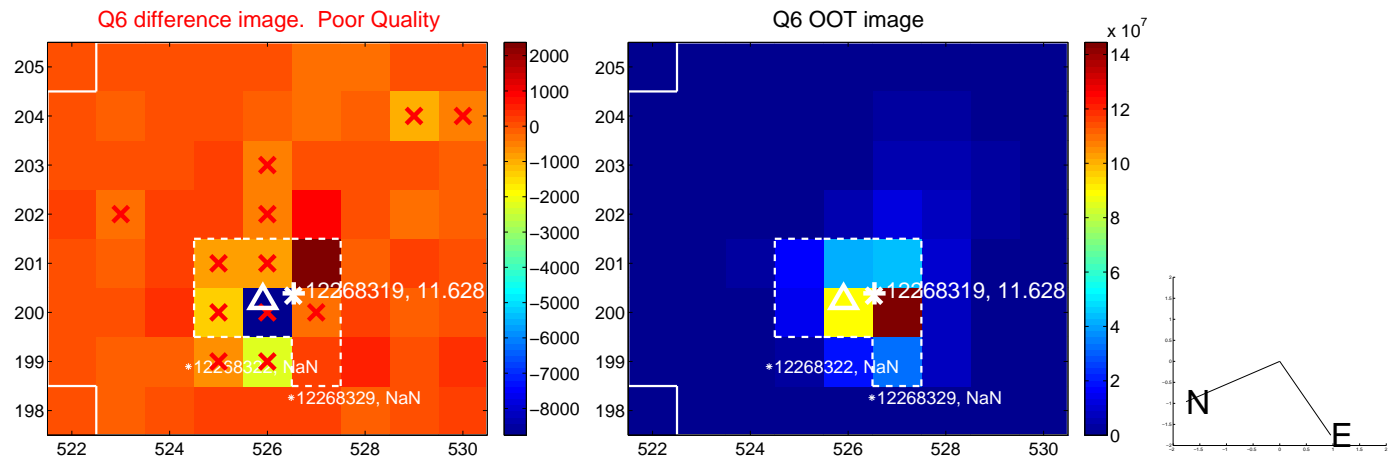
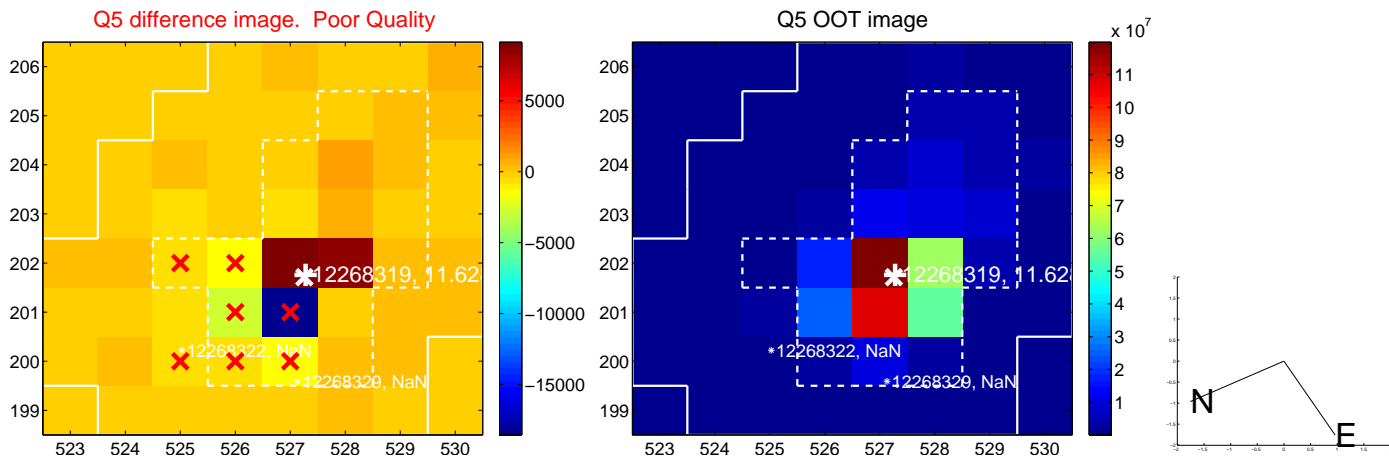


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

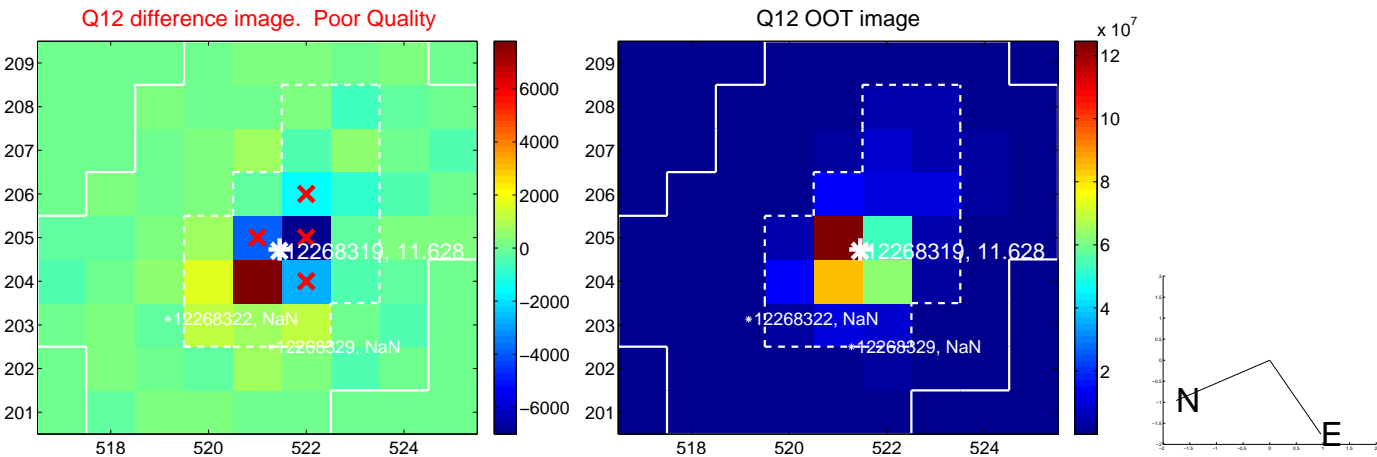
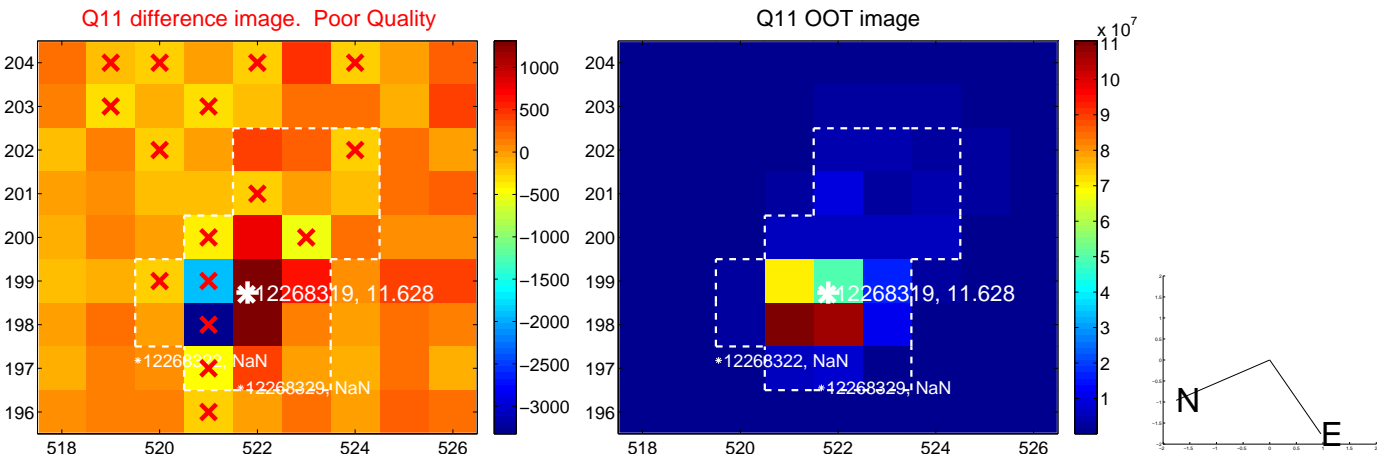
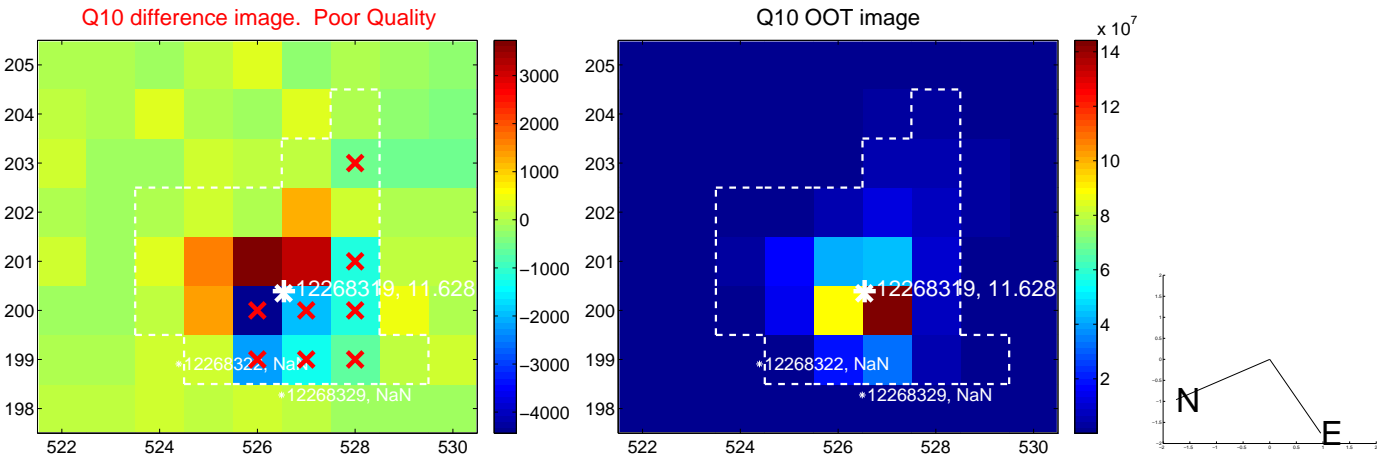
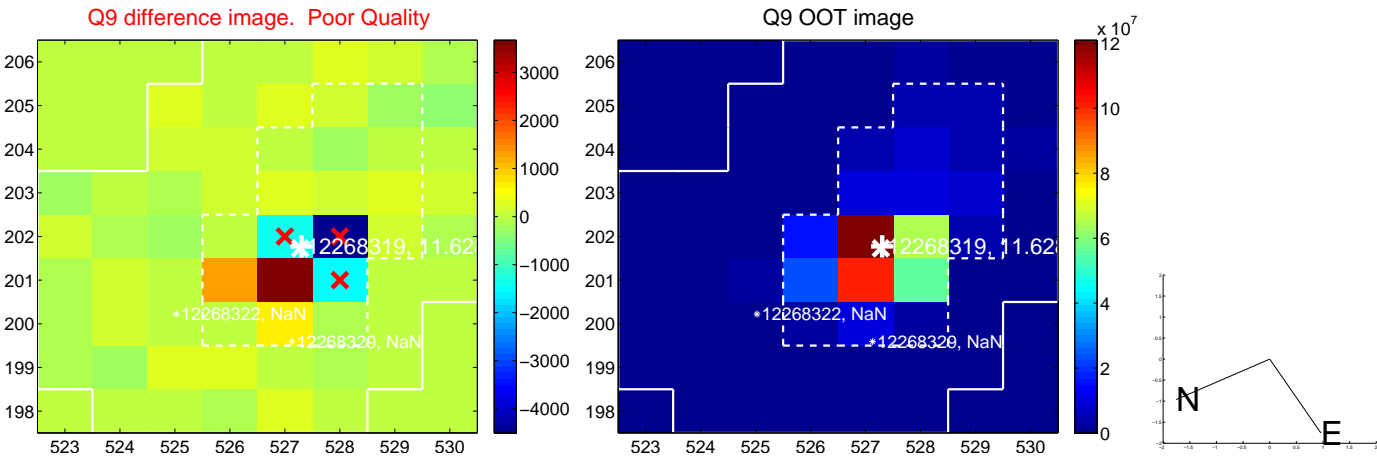
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



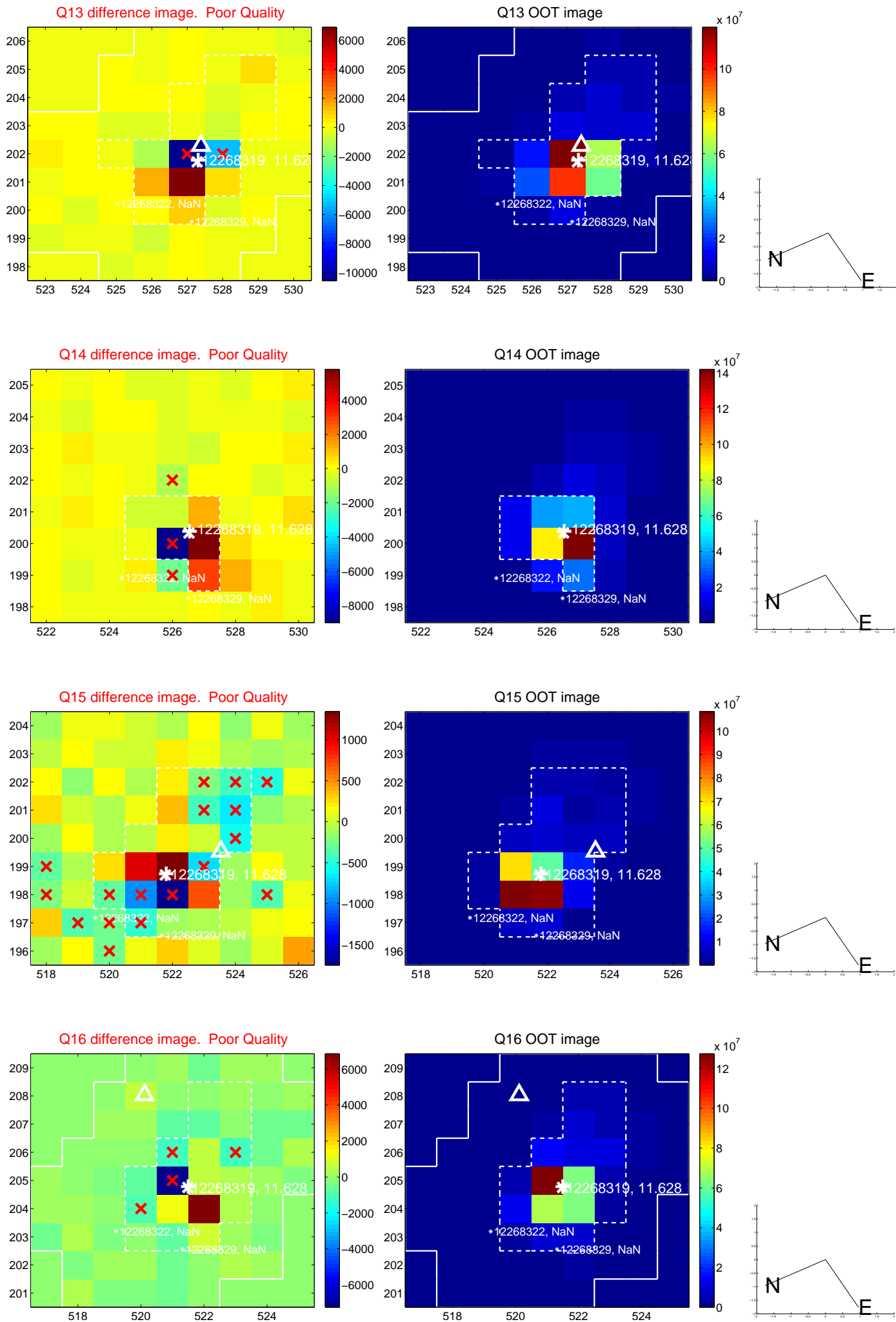
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

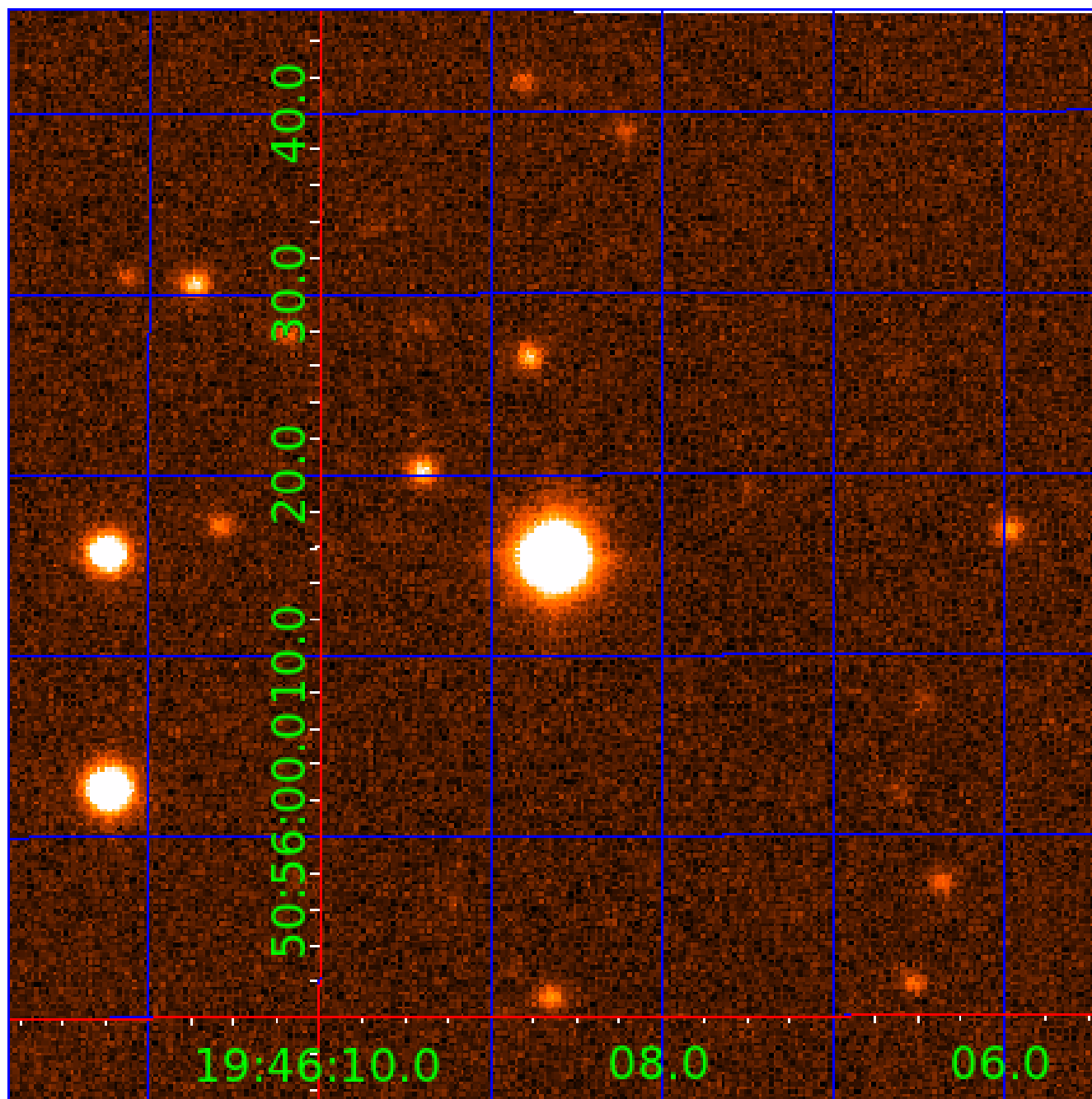


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 012268319

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})
012268319-01	OBS	No	3.630886	133.867488	21.8	7.431	17.4	18.7	2.71	10995	1.46	22158.03
012268319-02	OBS	No	1.815320	132.900459	10.8	5.071	12.0	12.0	2.71	10995	1.02	55839.78
012268319-03	OBS	No	3.630519	131.555267	73.3	6.000	9.4	-1.0	2.71	10995	2.39	22161.01

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
012268319-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_FEW_DIFFS
012268319-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS
012268319-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—SAME_NTL_PERIOD—CENT_NOFITS

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

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

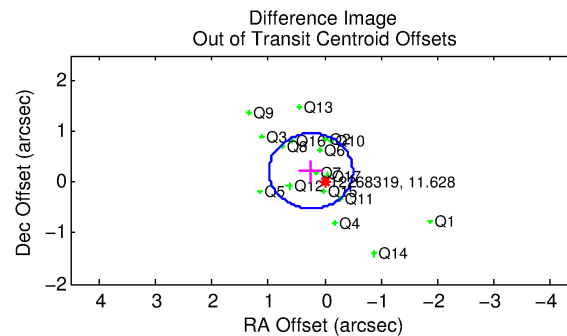
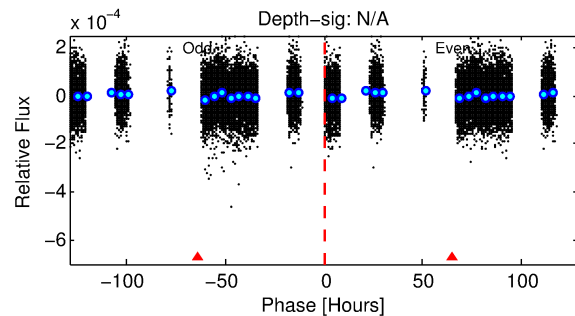
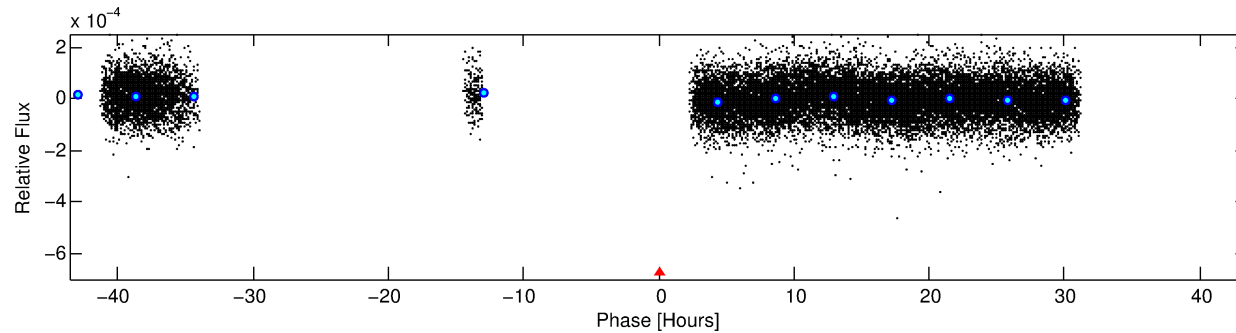
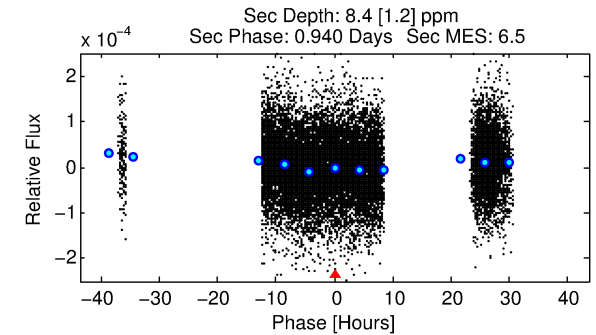
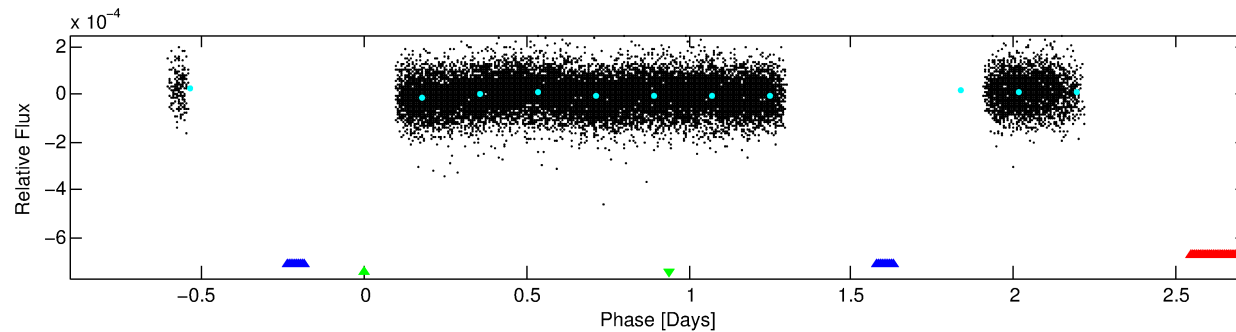
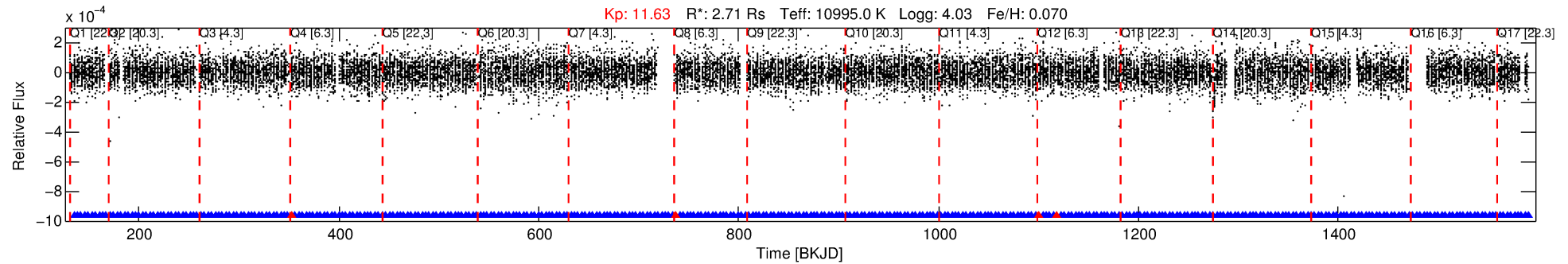
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 012268319-03

No Significant Match Found

DV One-Page Summary

KIC: 12268319 Candidate: 3 of 3 Period: 3.631 d



TPS TCE Results:

Period = 3.63052 d
Epoch = 131.5553 BKJD

DV fit results are unavailable

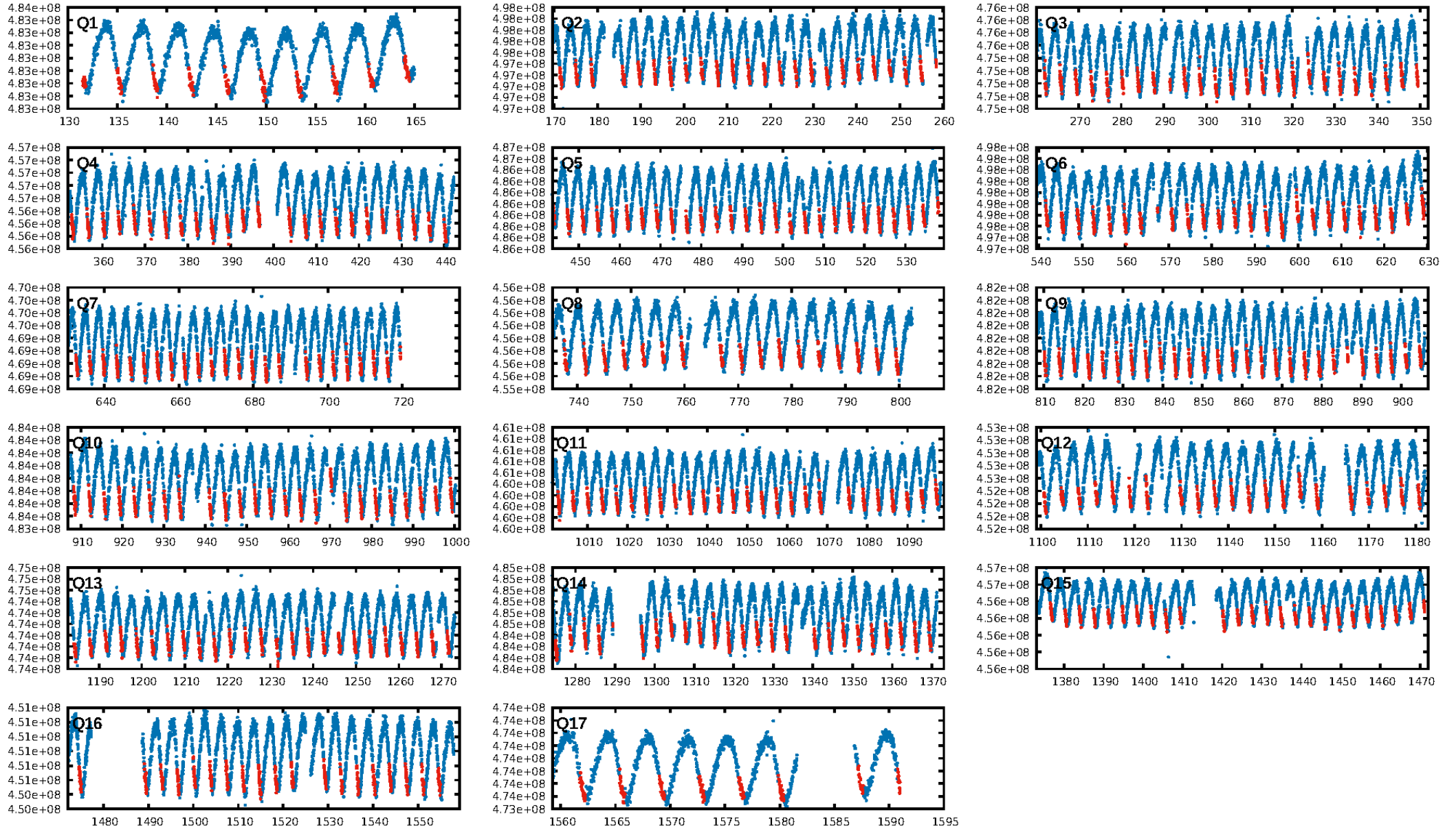
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [5.55 σ]
LongPeriod-sig: 0.1% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.48e-14
RollingBand-fgt: 0.99 [351/355]
GhostDiagnostic-chr: 0.9559
Centroid-sig: 0.0%
Centroid-so: 0.331 arcsec [8.37 σ]
OotOffset-rm: 0.331 arcsec [1.34 σ]
KicOffset-rm: 0.150 arcsec [0.57 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

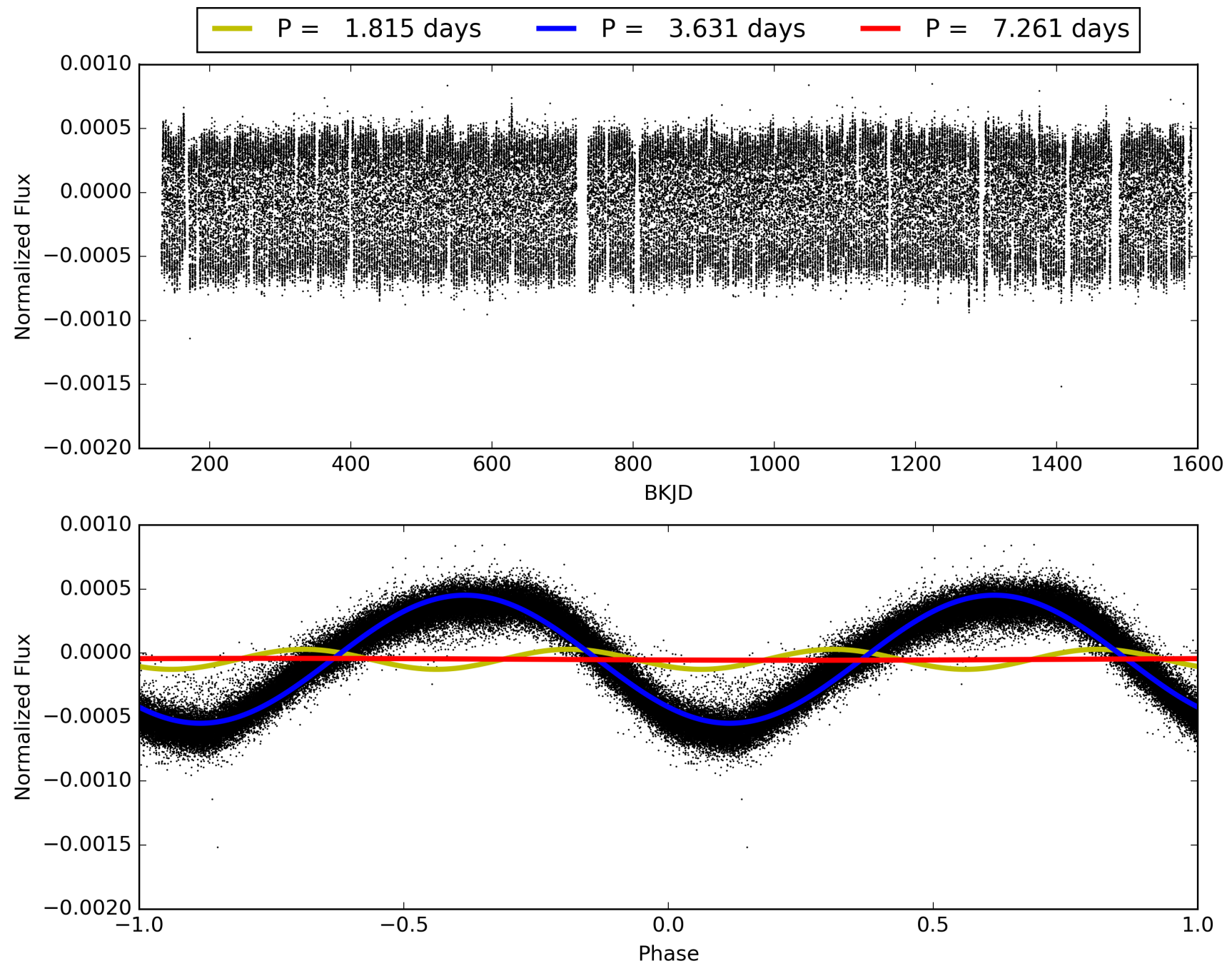
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:27:05 Z

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

TCE 012268319-03, PDC Light Curves

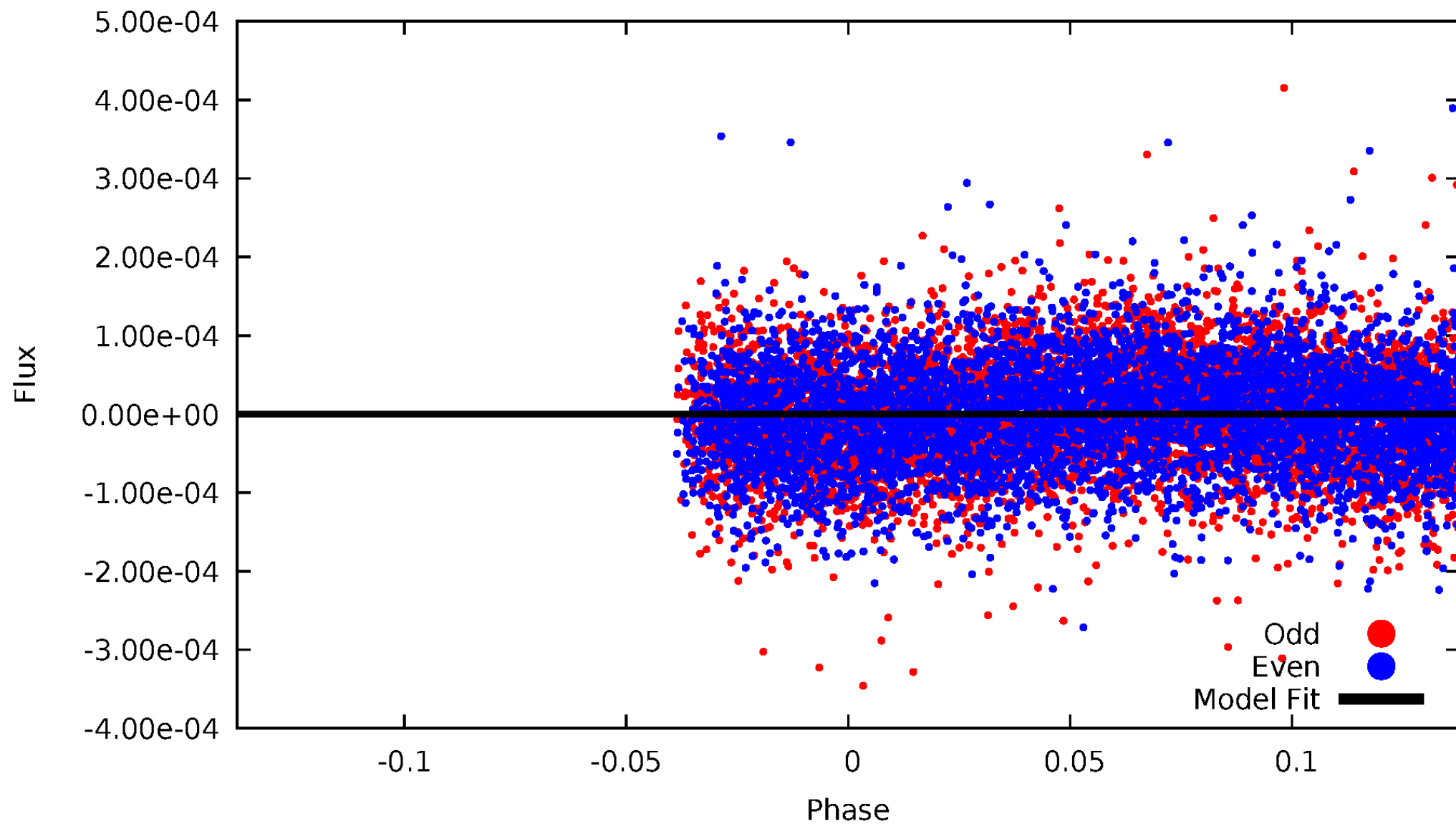


TCE 012268319-03



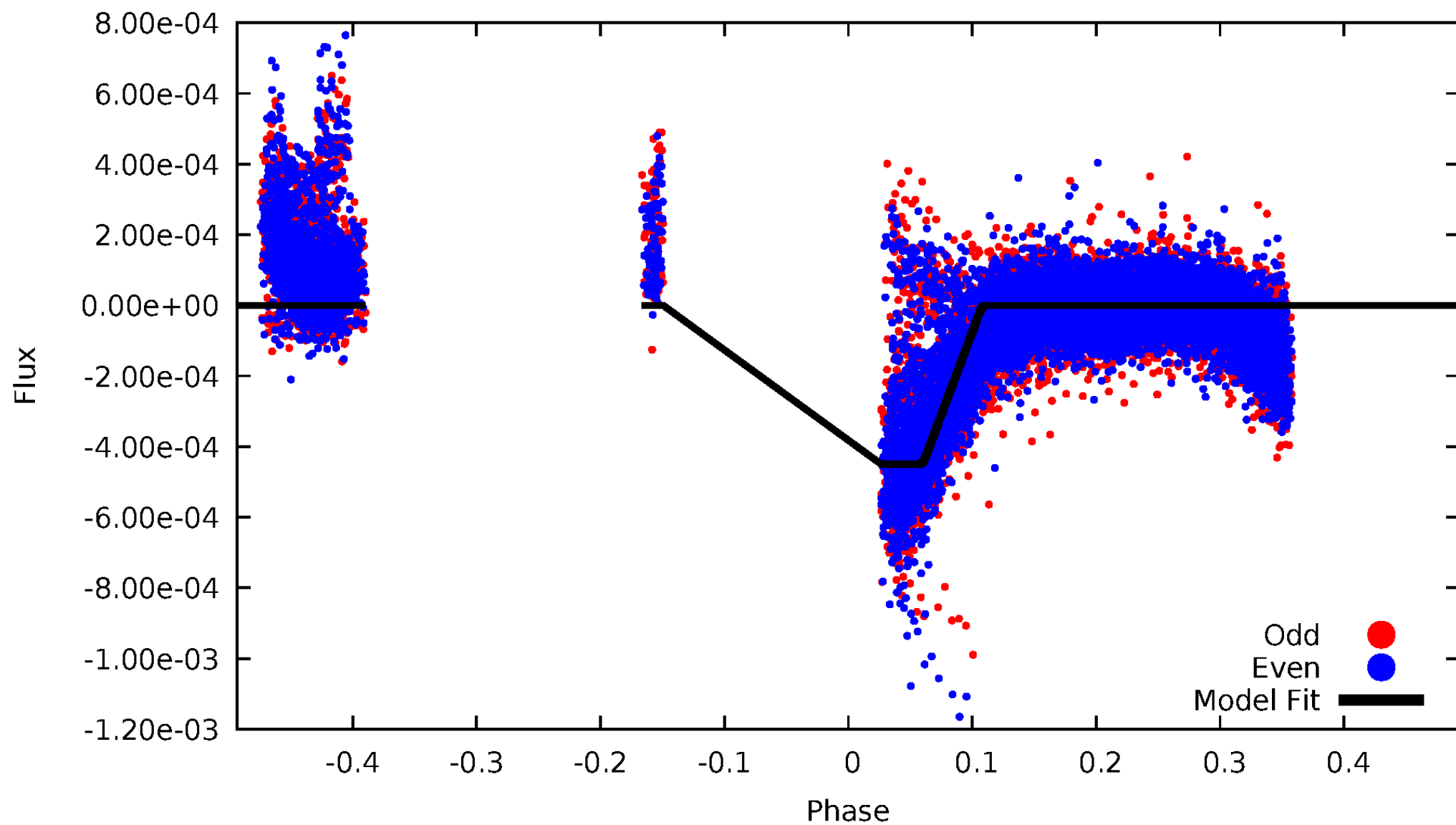
DV Odd/Even

TCE 012268319-03



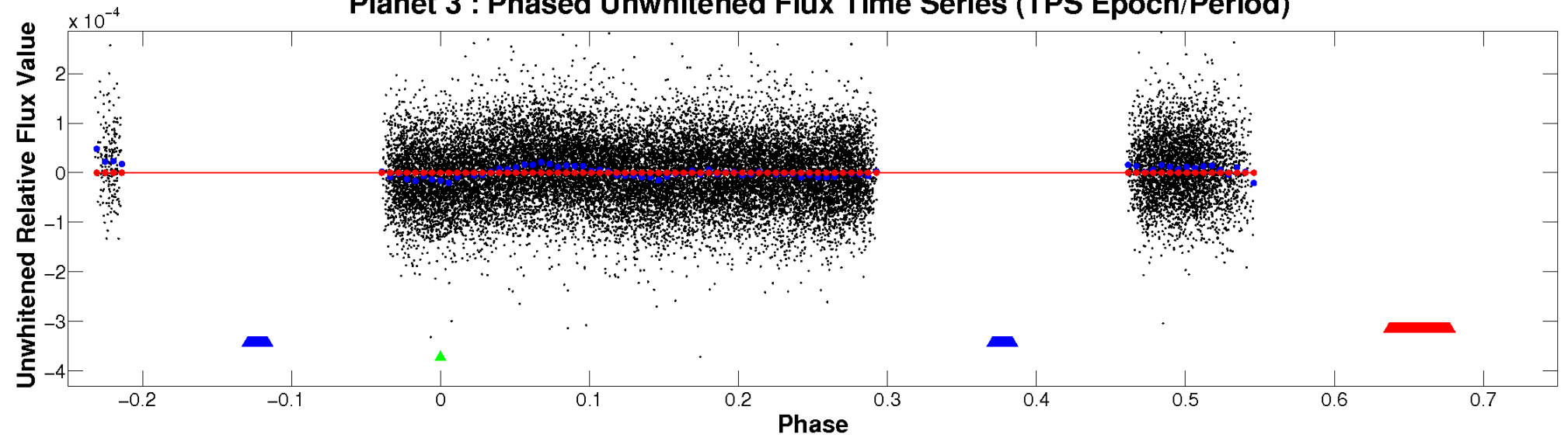
ALT Odd/Even

TCE 012268319-03

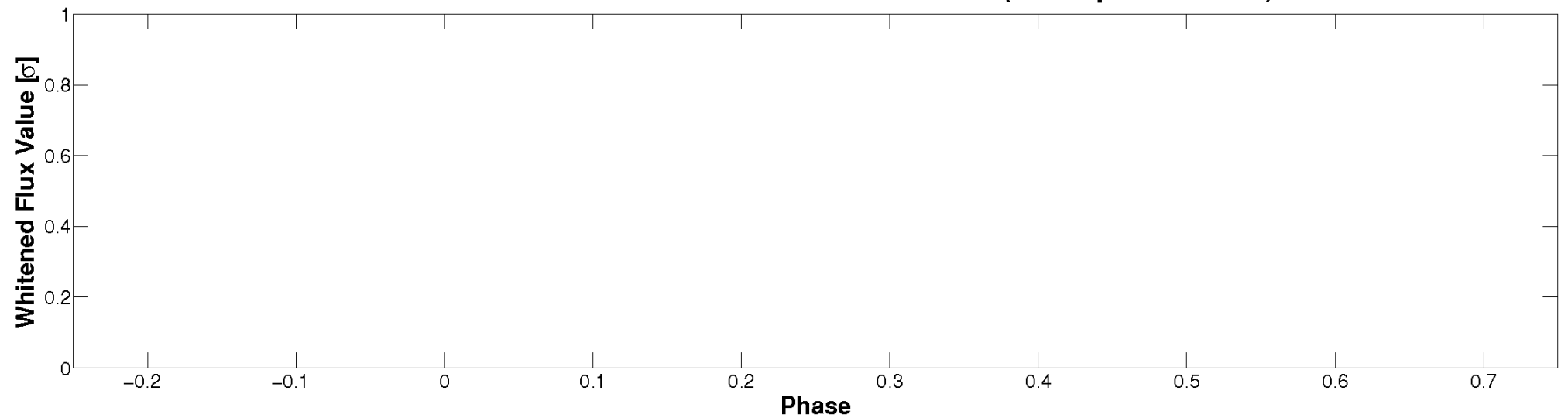


Non-Whitened Vs. Whitened Light Curve

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

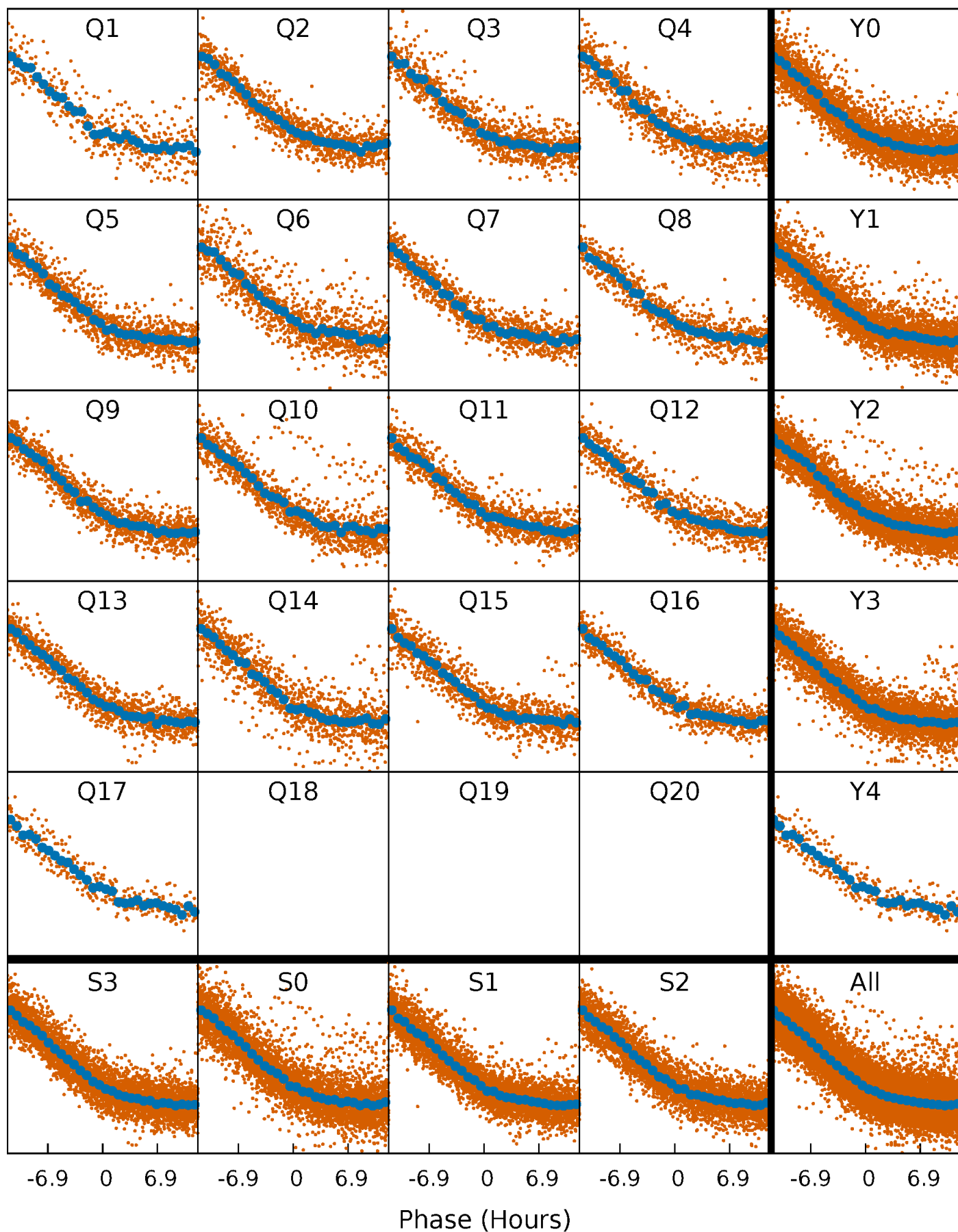


Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)



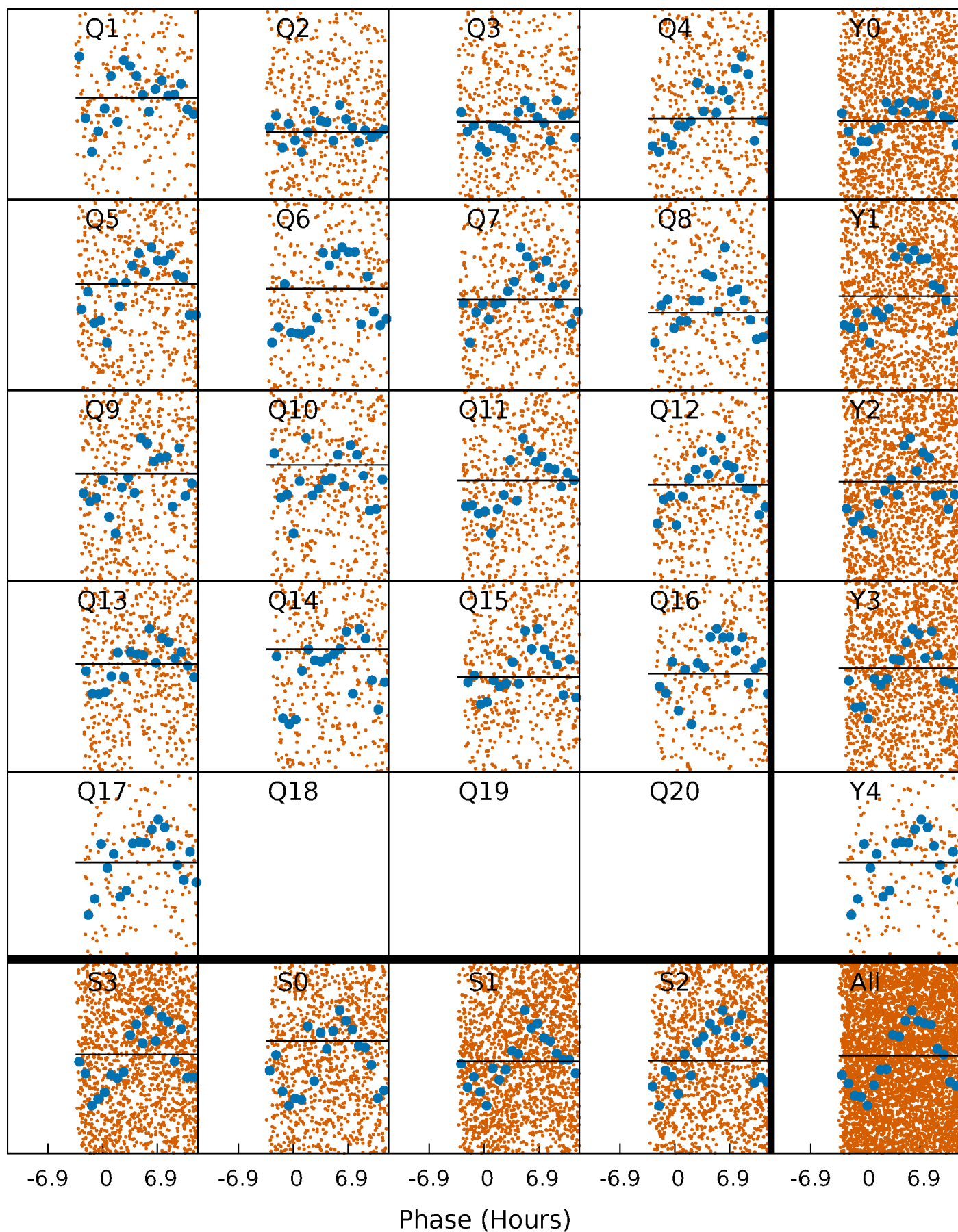
PDC Quarter-Phased Transit Curves

TCE 012268319-03 P= 3.630519 Days $T_0=131.555266$ (BKJD)



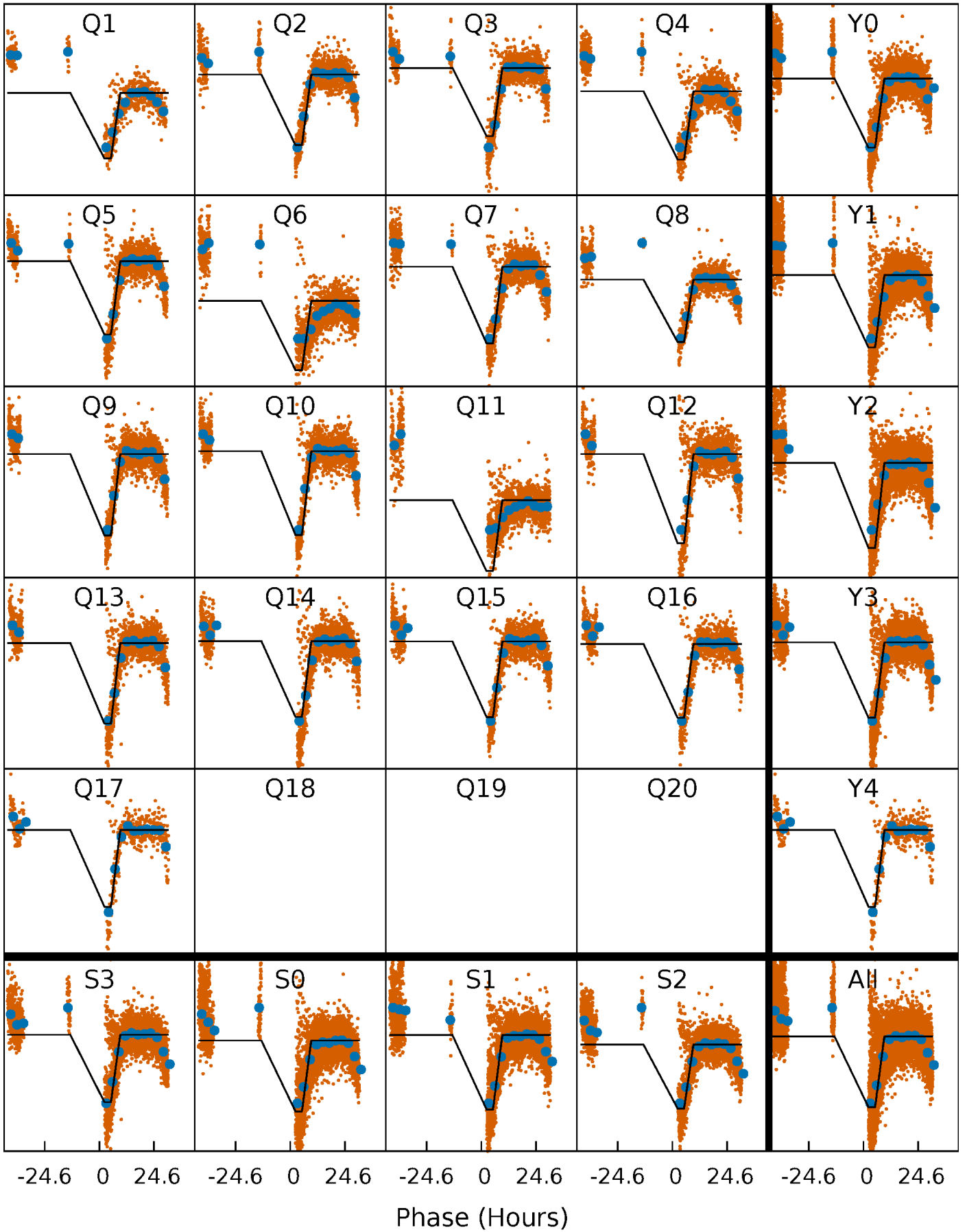
DV Quarter-Phased Transit Curves

TCE 012268319-03 P= 3.630519 Days $T_0=131.555266$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

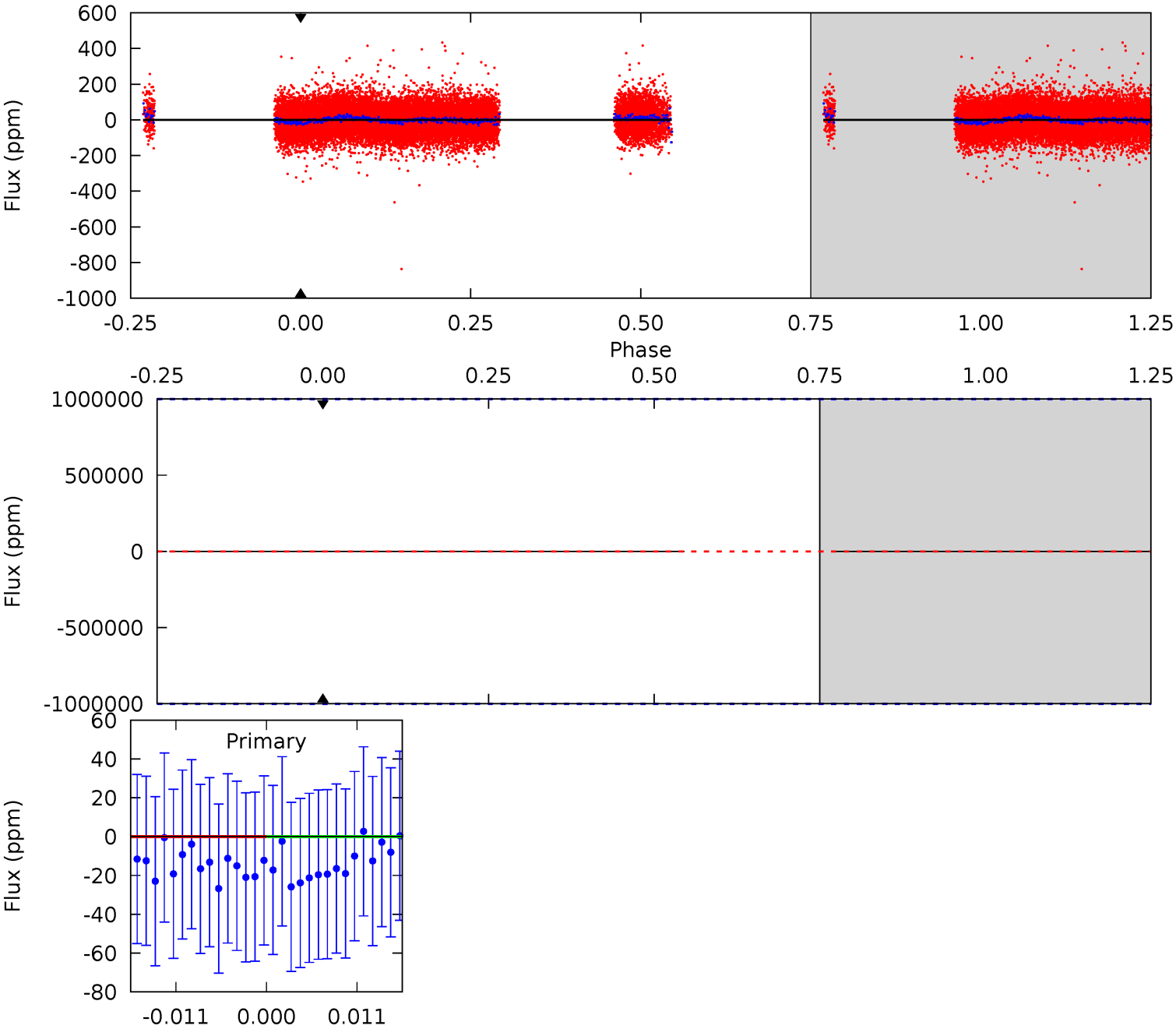
TCE 012268319-03 P= 3.630519 Days $T_0=134.949464$ (BKJD)



DV Model-Shift Uniqueness Test

012268319-03, P = 3.630519 Days, E = 127.924747 Days

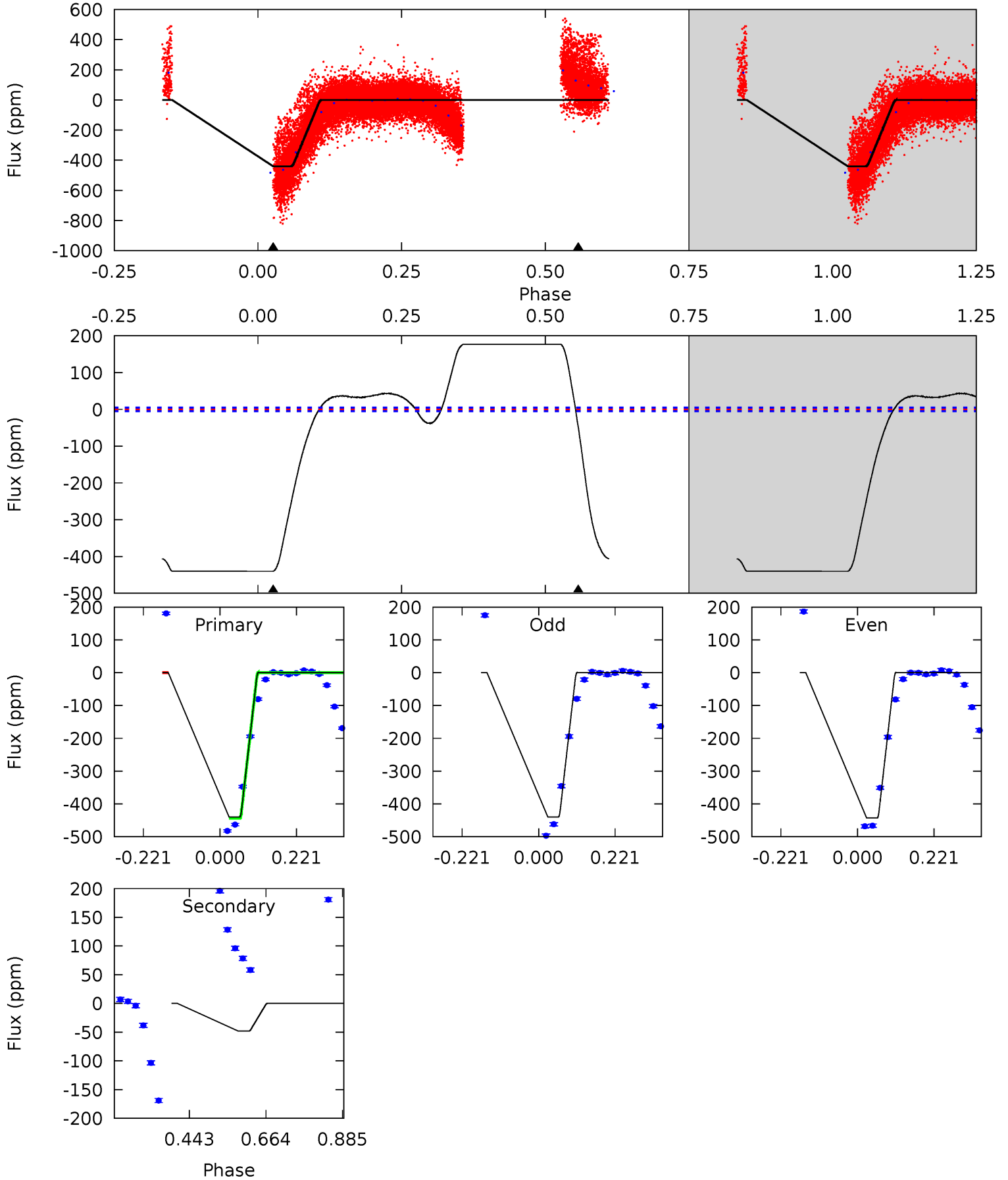
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

012268319-03, P = 3.630519 Days, E = 131.318945 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
389.2	42.5	0	0	4.40	1.22	28.8	389.2	389.2	42.5	42.5	1.47	0.91	0.29	0



Stellar Parameters For KIC 012268319

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	10995^{+261}_{-490}	$4.033^{+0.252}_{-0.168}$	$0.070^{+0.150}_{-0.600}$	$2.709^{+0.733}_{-0.977}$	$2.891^{+0.241}_{-0.723}$	$0.205^{+0.341}_{-0.098}$
	+2%/-4%	+6%/-4%	+214%/-857%	+27%/-36%	+8%/-25%	+166%/-48%
Source	KIC0	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 012268319-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$20.75^{+22.28}_{-14.33}$	4287^{+346}_{-363}	-7293^{+98051}_{-82850}	$-8.814^{+921.320}_{-836.545}$
Alt.	-48 ± 1	$21.24^{+21.19}_{-15.39}$	4293^{+371}_{-374}	-2728^{+8291}_{-767}	$0.254^{+3.067}_{-0.194}$

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

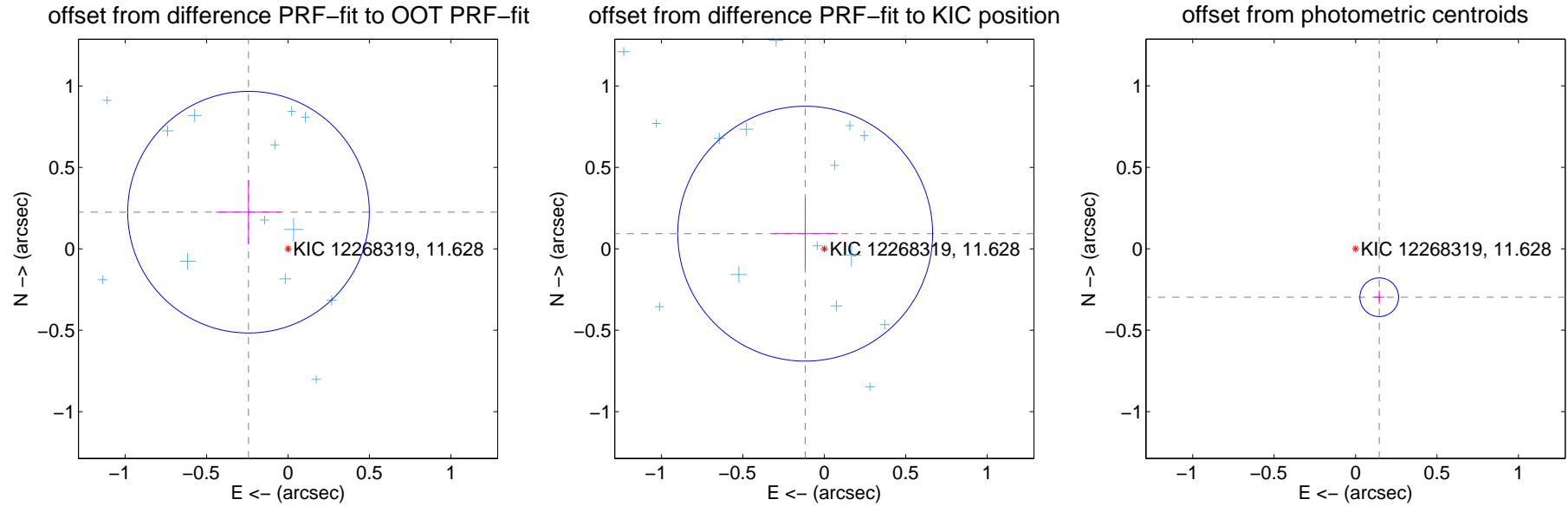
DV Centroid Data

Supplemental centroid analysis for 012268319-03. **Kepler magnitude: 11.63.** Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

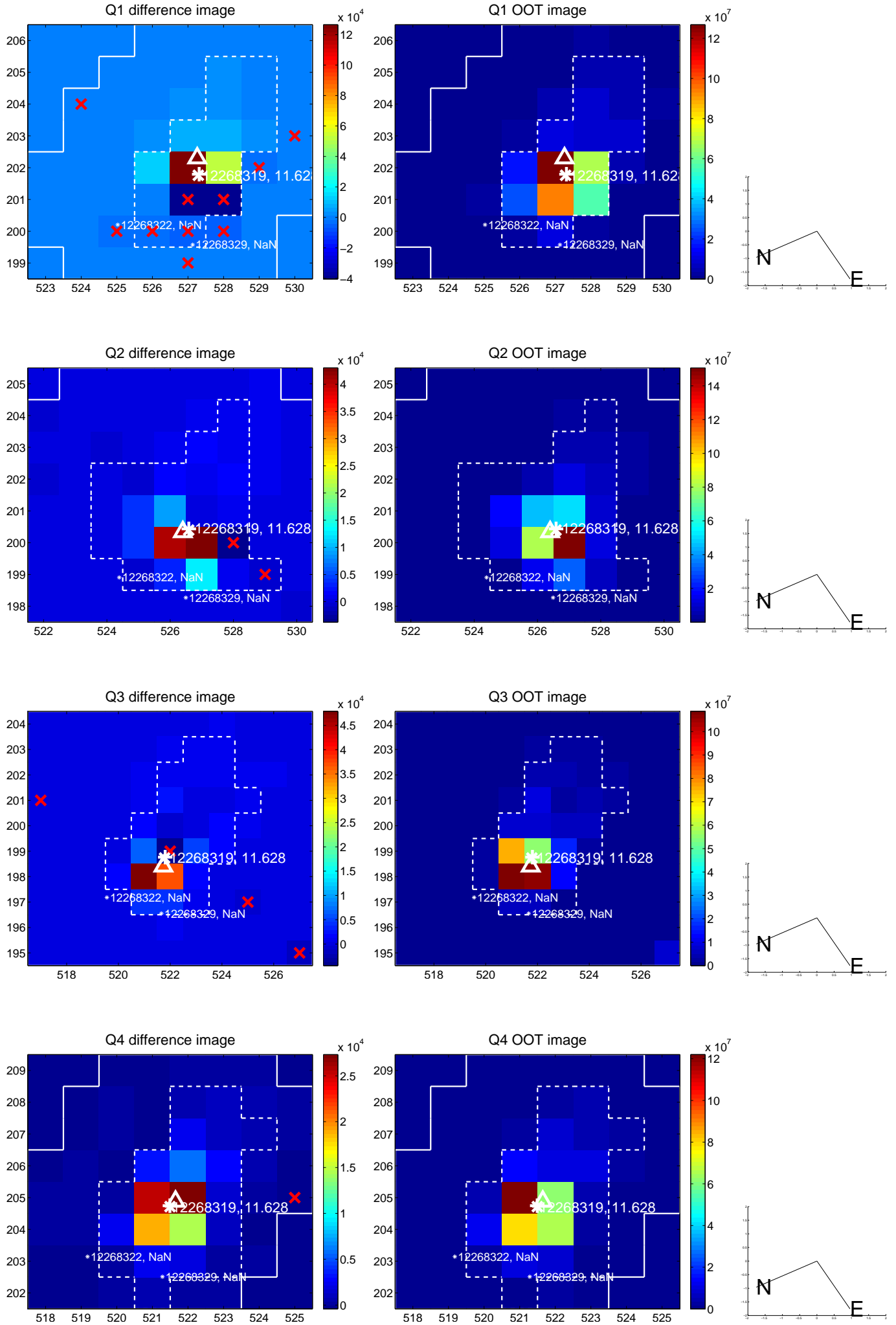
The direct PRF centroid is offset from the target star catalog position by about 0.21 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.331 ± 0.247	1.34	0.243 ± 0.200	0.225 ± 0.196
PRF-fit source offset from KIC position	0.150 ± 0.261	0.57	0.117 ± 0.200	0.093 ± 0.212
photometric centroid source offset	0.33 ± 0.04	8.37	-0.15 ± 0.03	-0.30 ± 0.04

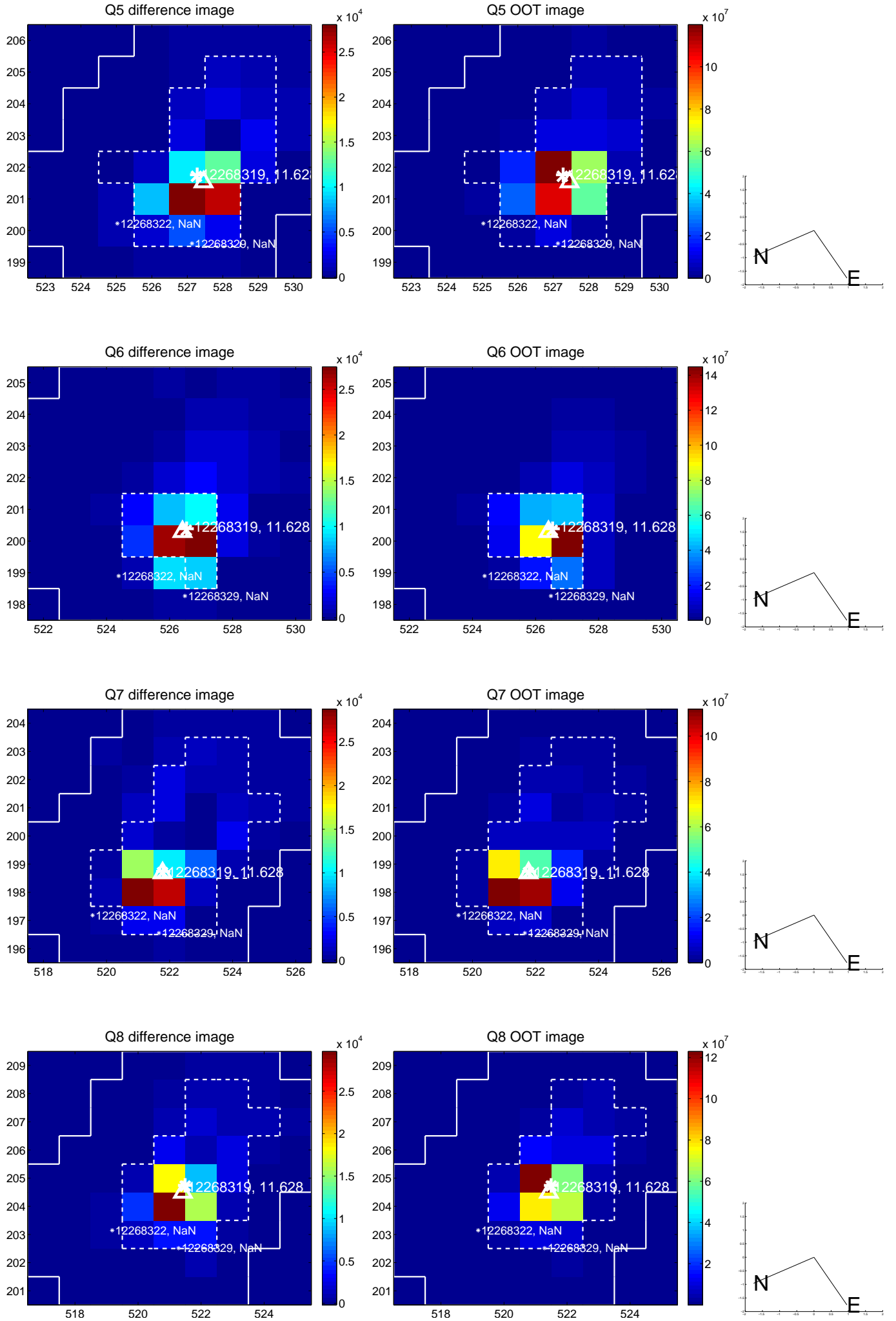


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

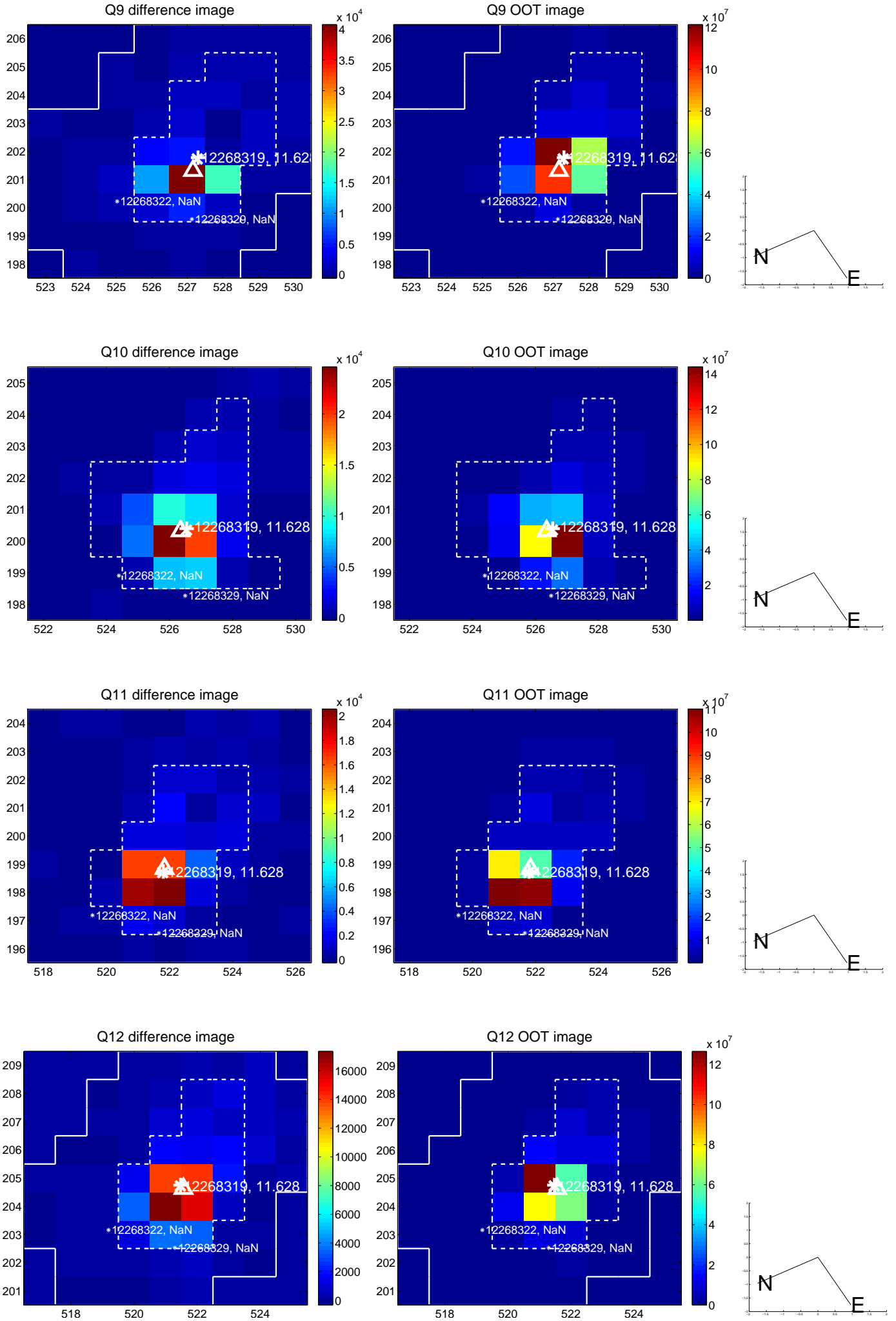
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



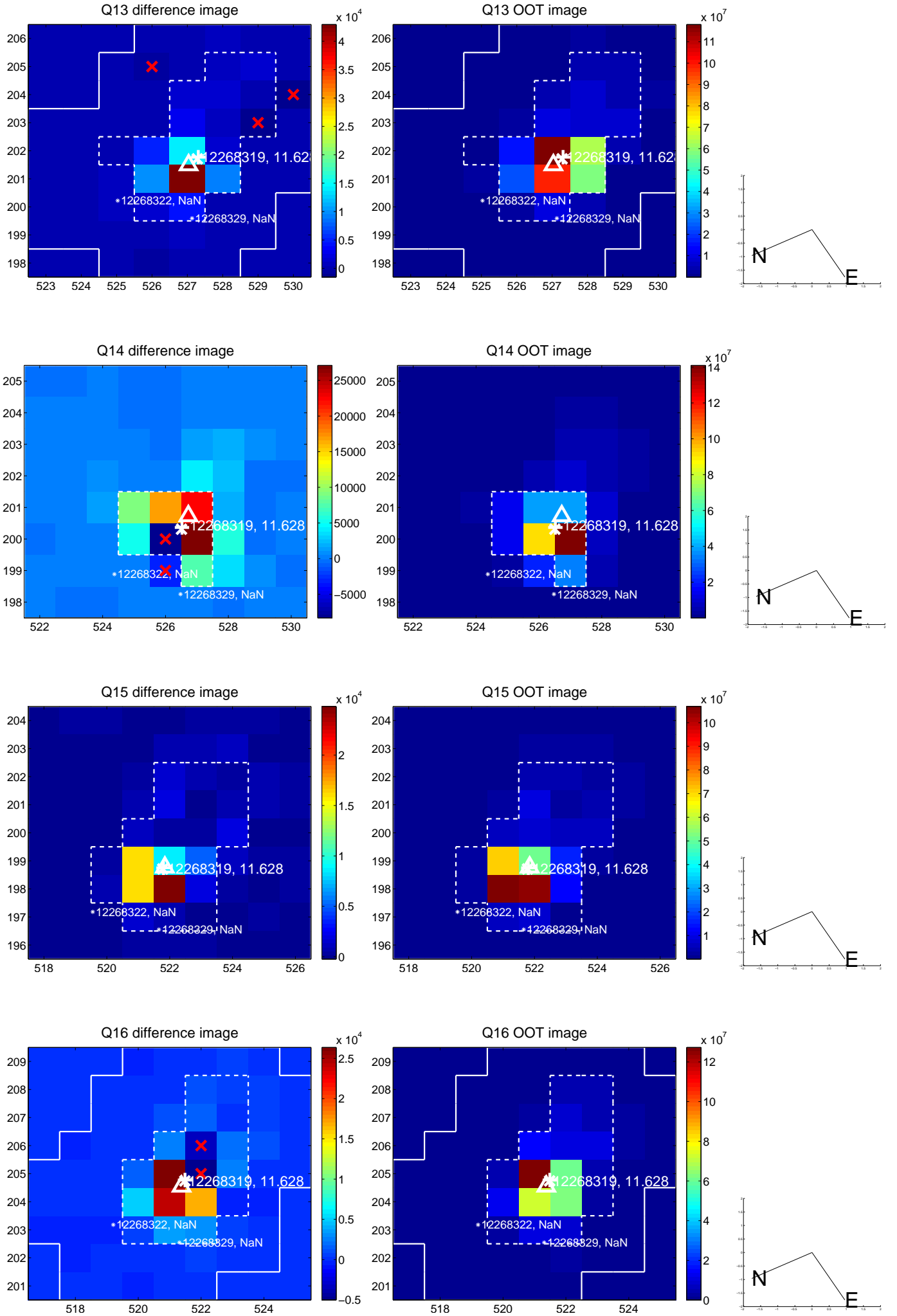
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



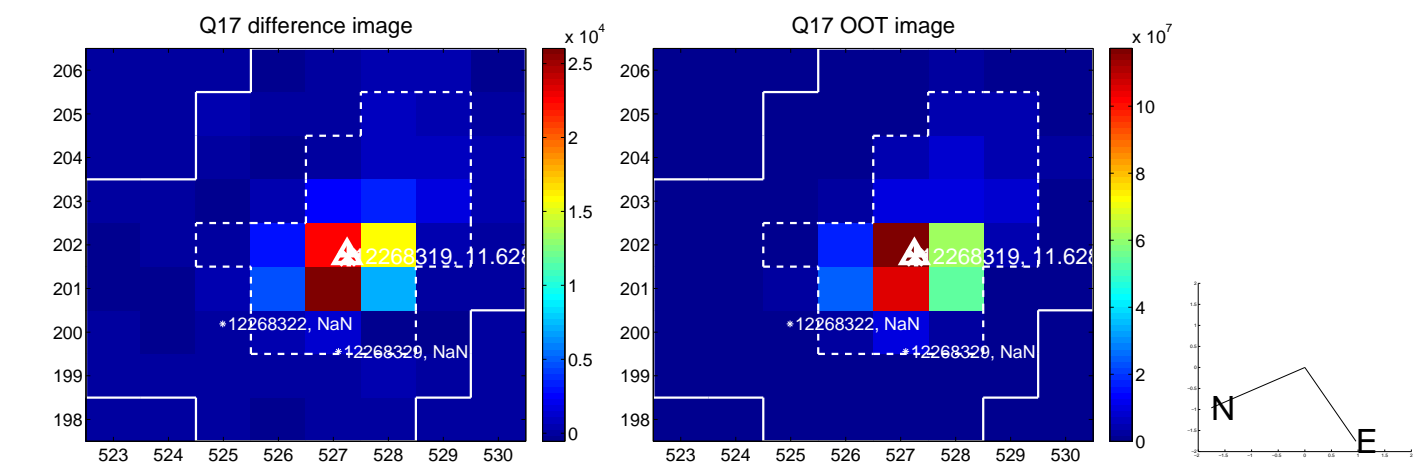
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



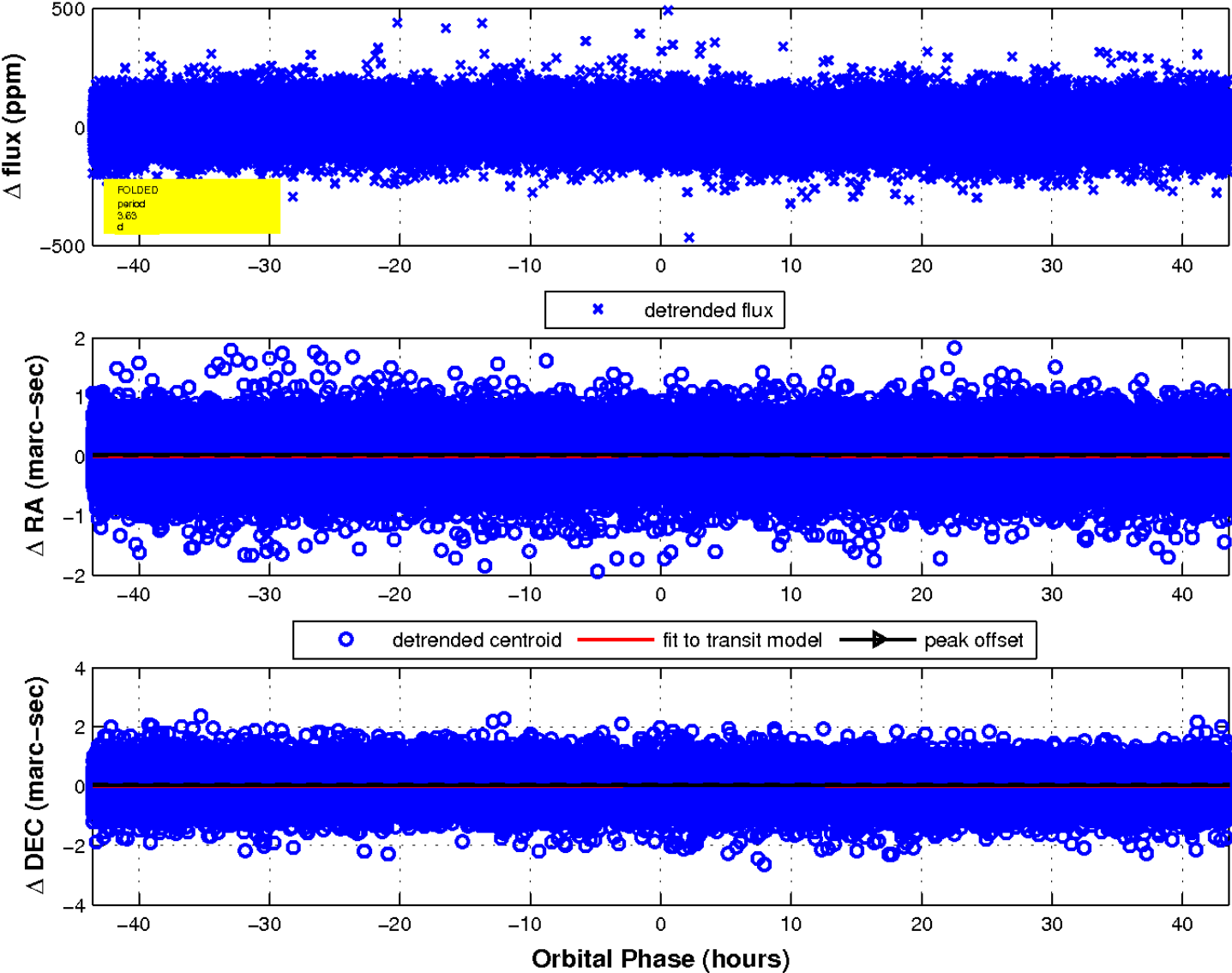
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

