

KIC 007547306

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})
007547306-01	OBS	No	0.846760	131.801853	127.8	5.416	12.8	15.2	4.01	7392	5.26	86857.62
007547306-02	OBS	No	0.531579	131.911043	755.3	1.143	16.1	22.8	4.01	7392	12.90	0.00
007547306-03	OBS	No	0.531576	131.649334	590.6	1.046	14.2	18.4	4.01	7392	10.01	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007547306-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_KIC_POS
007547306-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007547306-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_KIC_POS

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

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

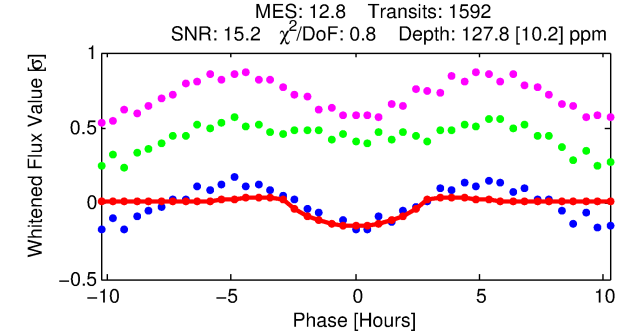
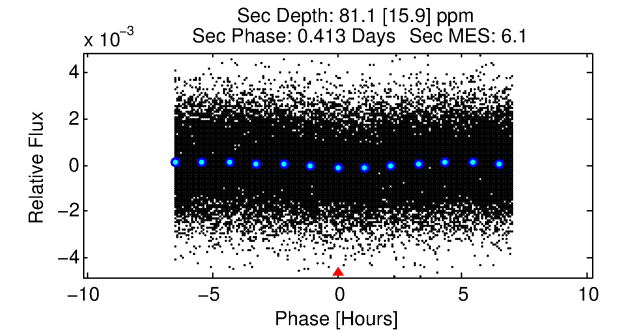
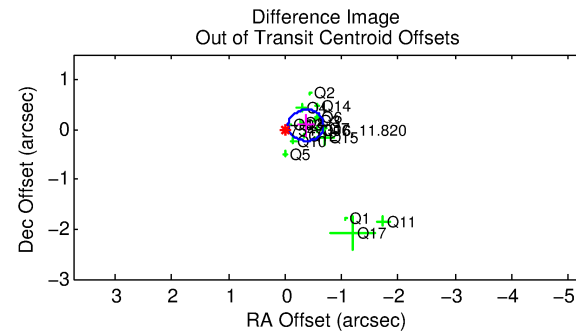
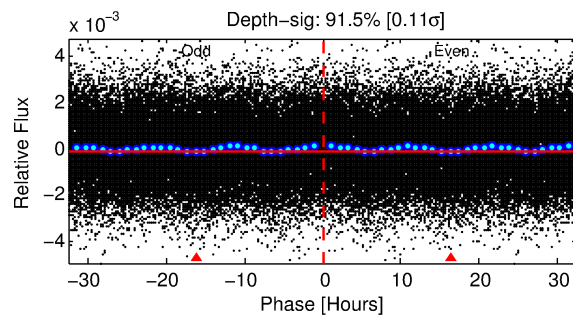
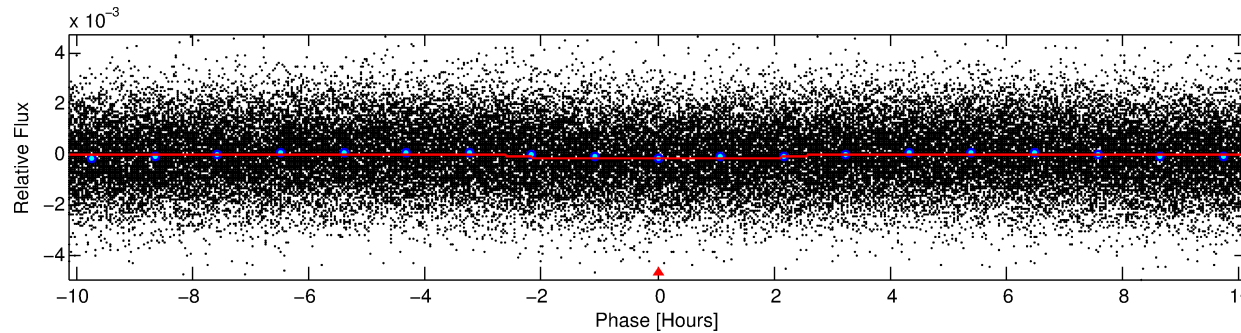
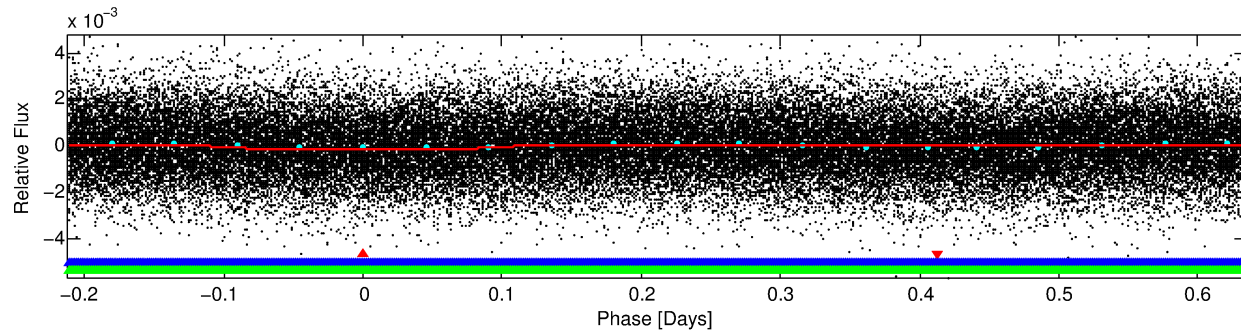
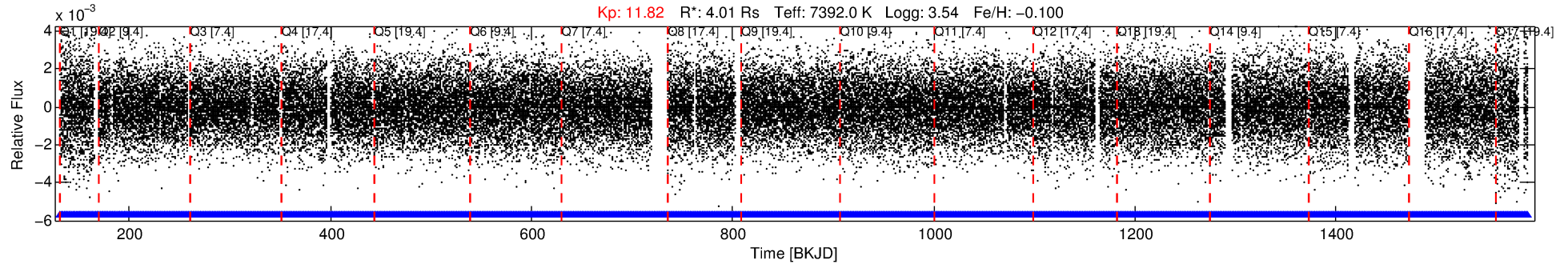
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007547306-01

No Significant Match Found

DV One-Page Summary

KIC: 7547306 Candidate: 1 of 3 Period: 0.847 d



DV Fit Results:

Period = 0.84676 [0.00001] d
Epoch = 131.8019 [0.0042] BKJD
Rp/R* = 0.0120 [0.0029]
a/R* = 1.09 [0.27]
b = 0.90 [0.32]
Seff = 86857.62 [85234.55]
Teq = 4378 [1074] K
Rp = 5.26 [3.19] Re
a = 0.0222 [0.0129] AU
Ag = 0.80 [0.87] [-0.23 σ]
Teffp = 6397 [875] K [1.46 σ]

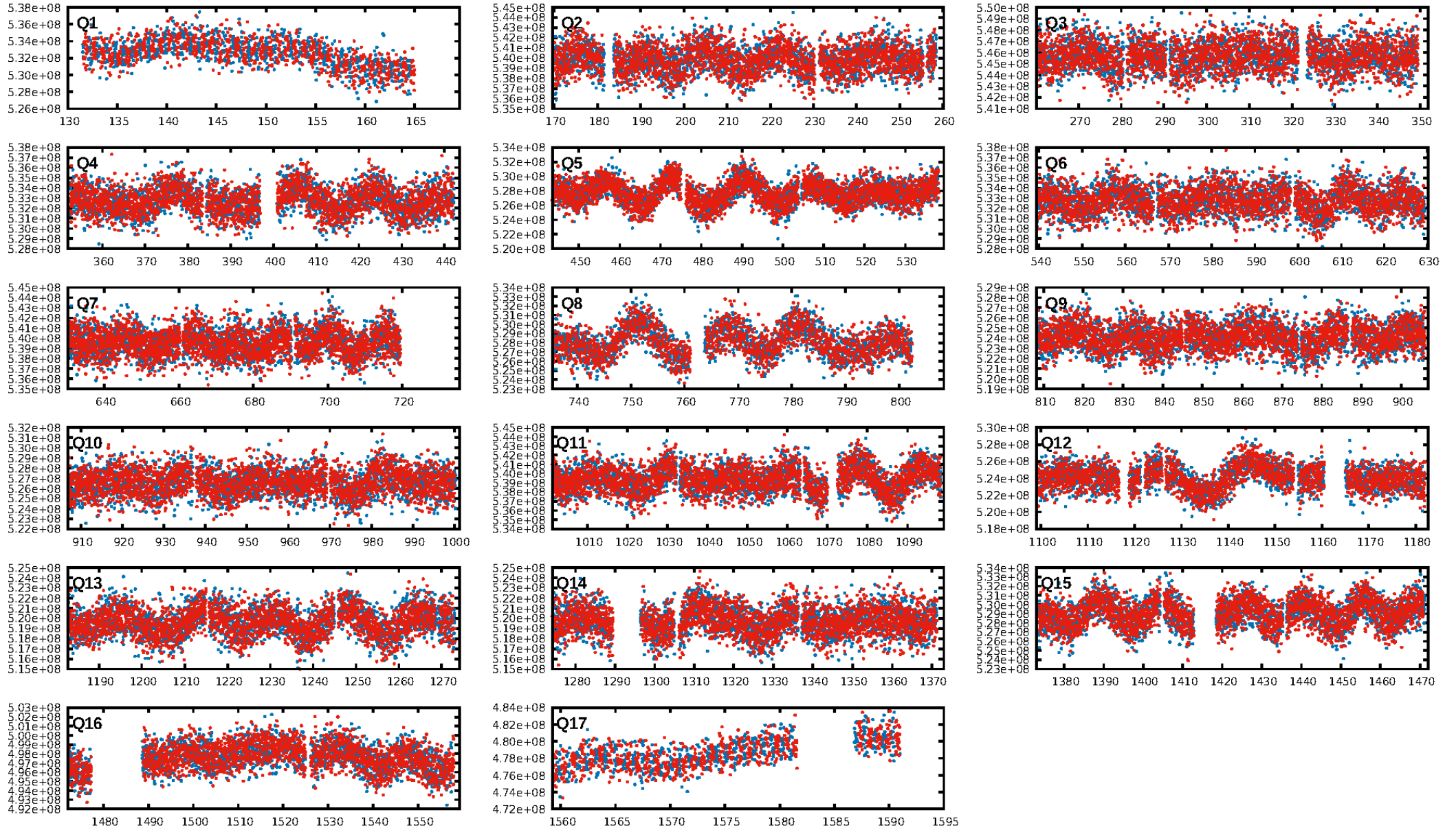
DV Diagnostic Results:

ShortPeriod-sig: 82.8% [1.37 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgm: 1.00 [1520/1520]
GhostDiagnostic-chr: 0.9975
Centroid-sig: 0.1%
Centroid-so: 0.082 arcsec [0.81 σ]
OotOffset-rm: 0.374 arcsec [3.59 σ]
KicOffset-rm: 0.127 arcsec [0.63 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.65 [11/17]
DiffImageOverlap-fno: 0.00 [0/17]

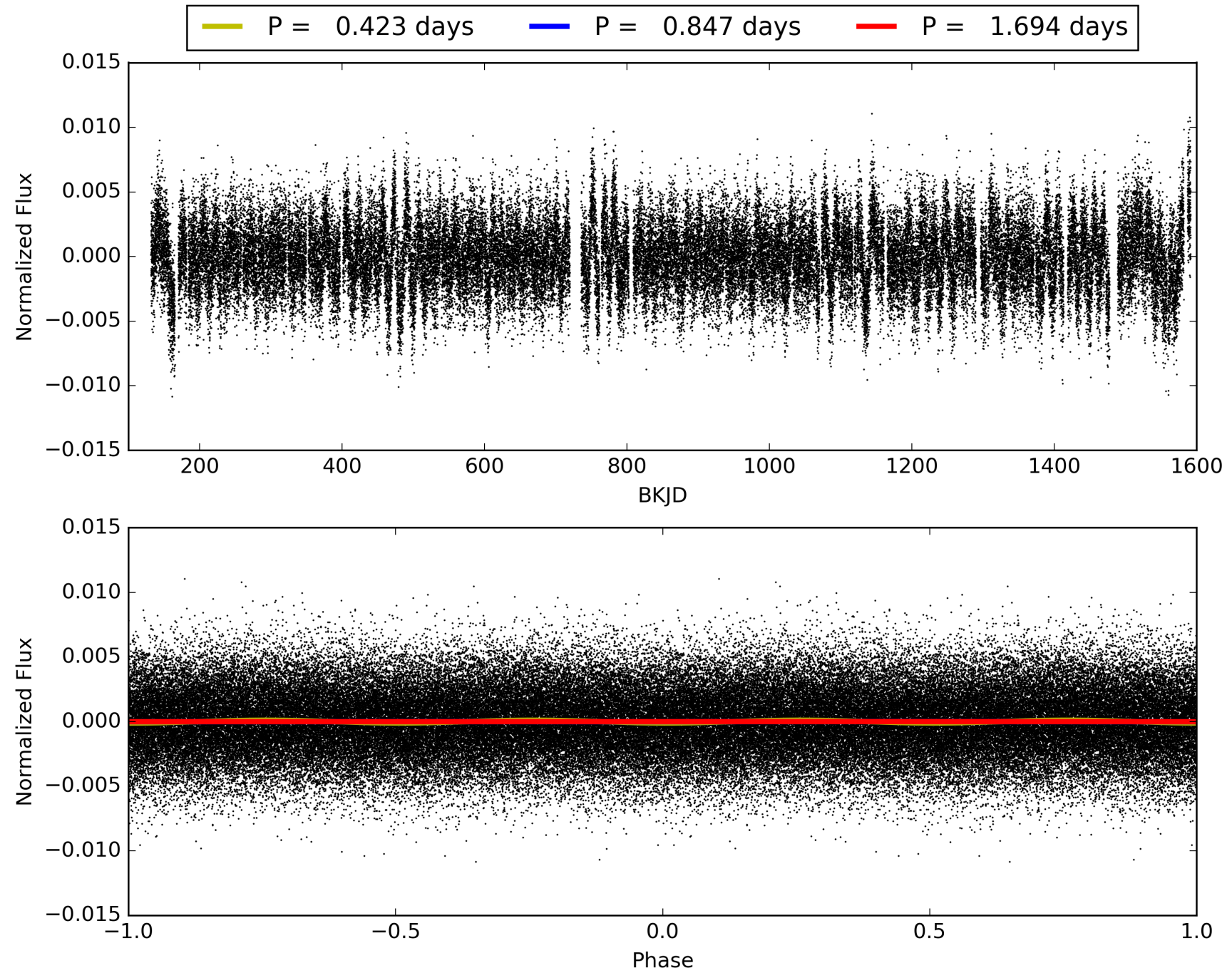
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 05:51:41 Z

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

TCE 007547306-01, PDC Light Curves

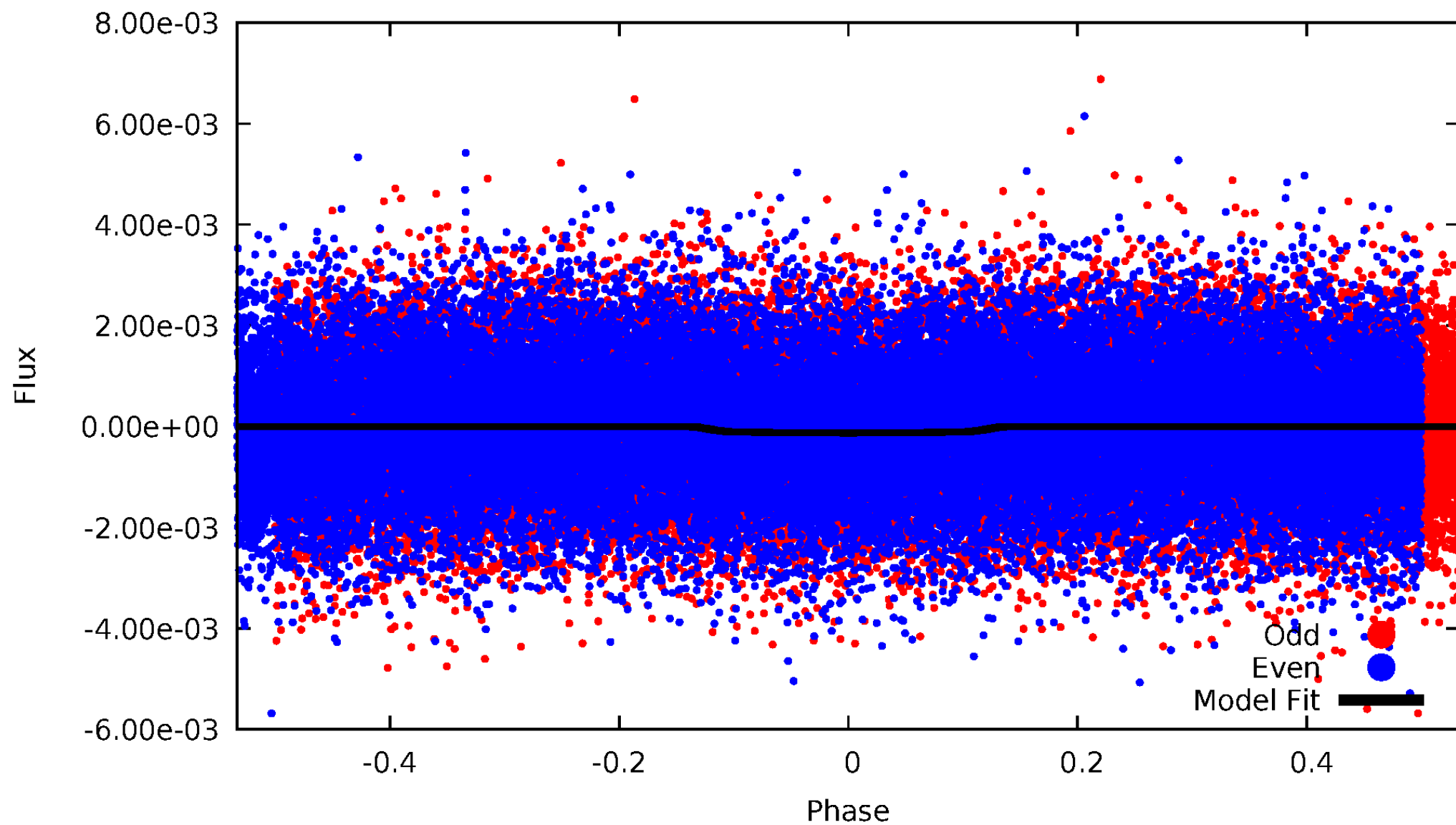


TCE 007547306-01



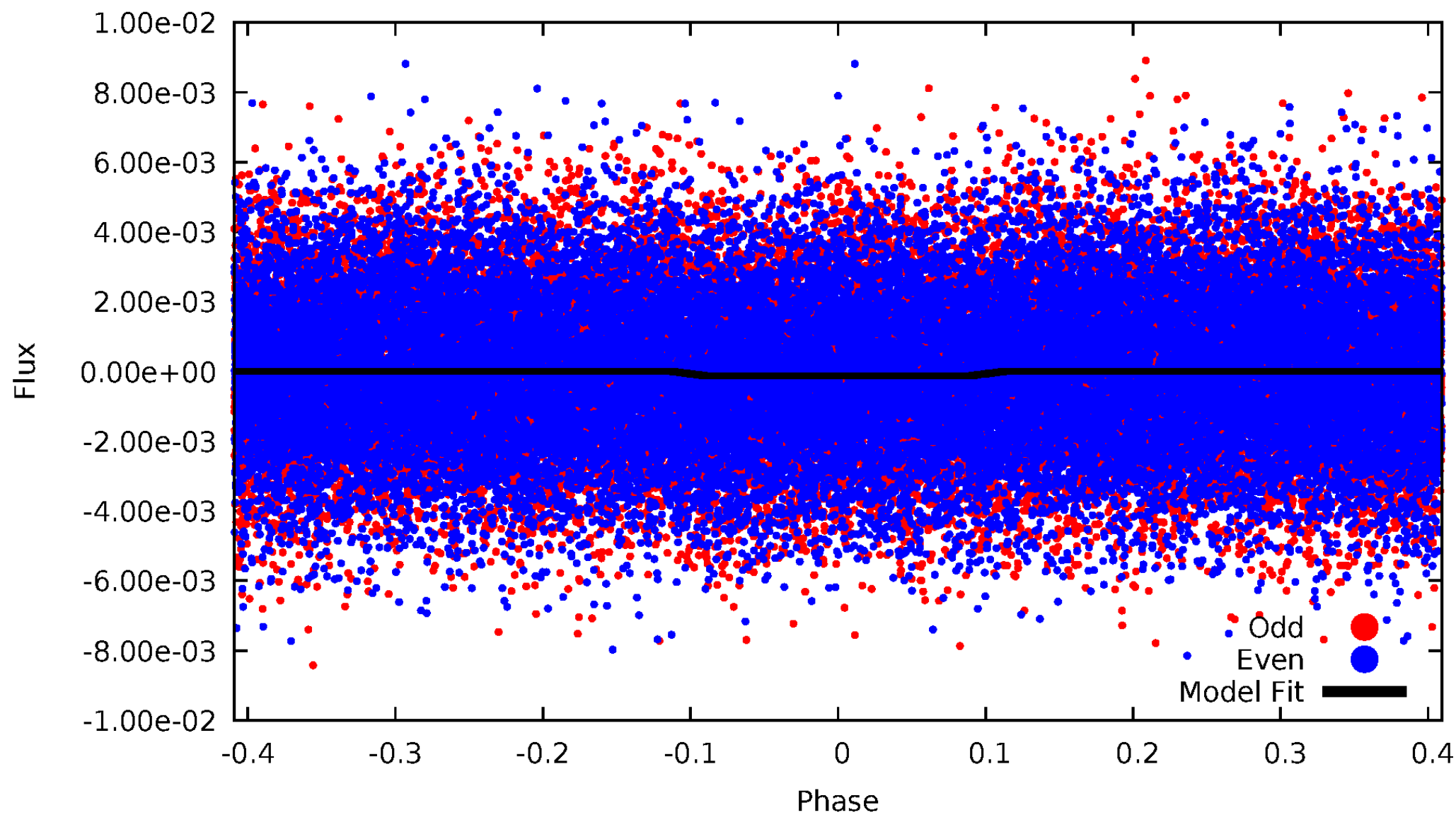
DV Odd/Even

TCE 007547306-01

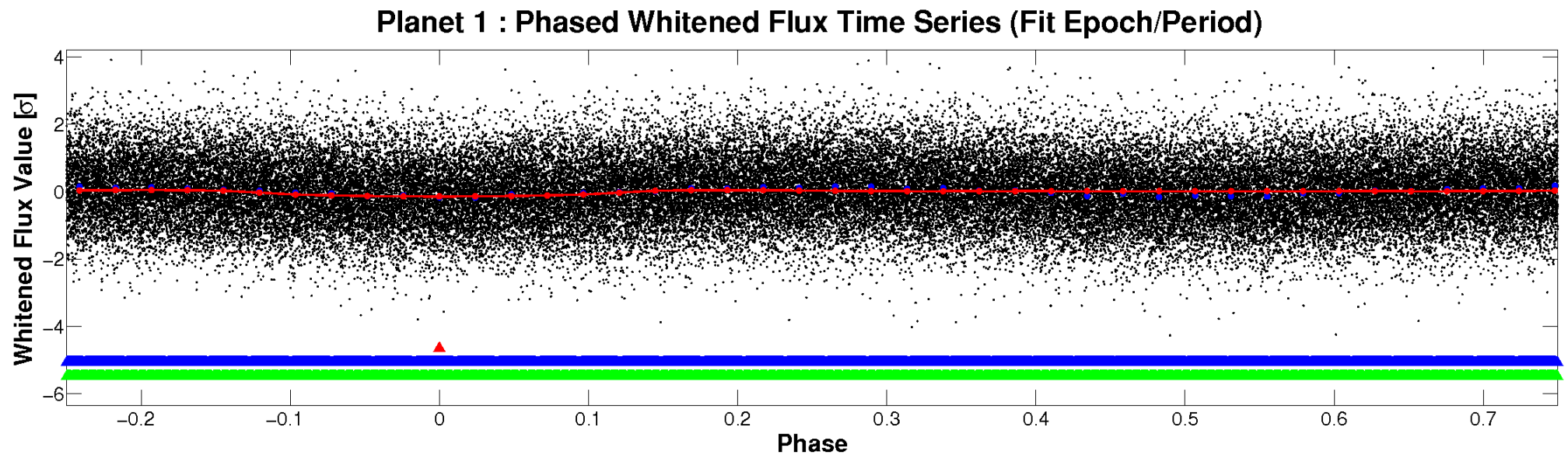
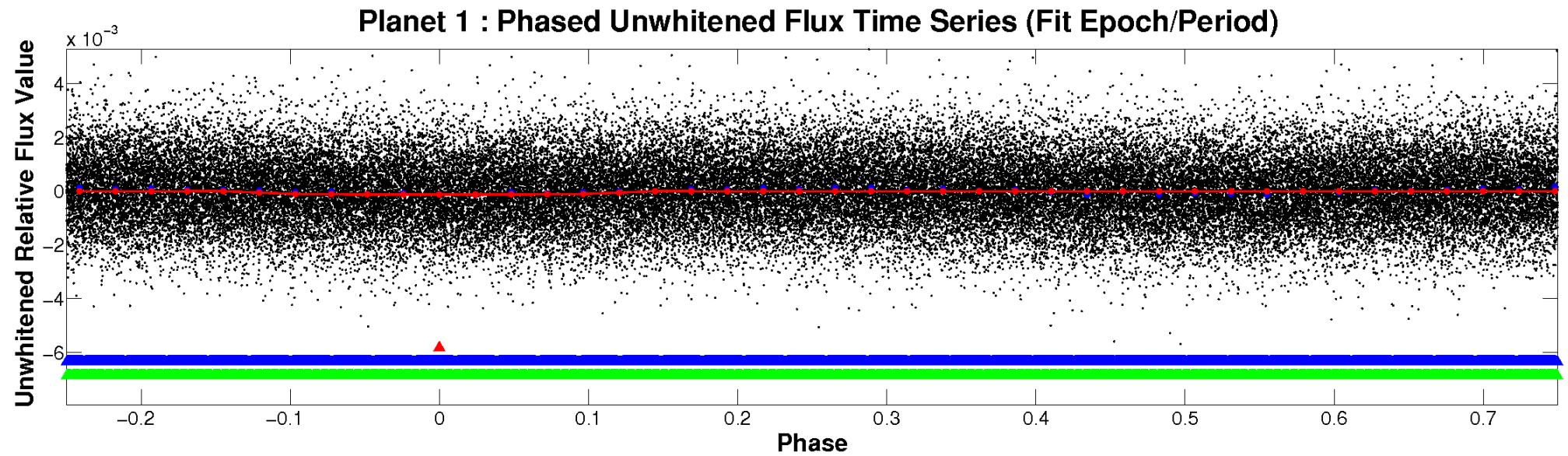


ALT Odd/Even

TCE 007547306-01

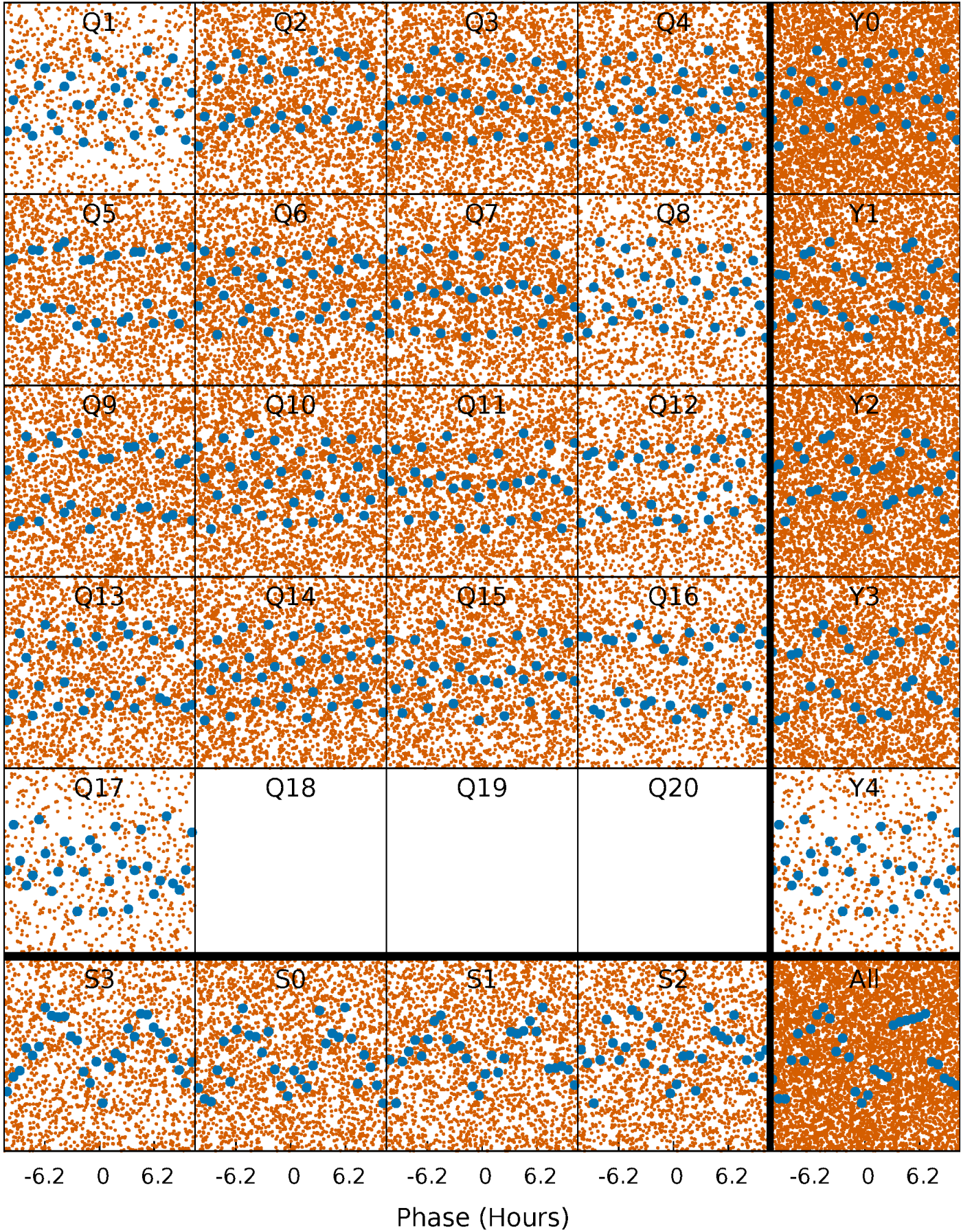


Non-Whitened Vs. Whitened Light Curve



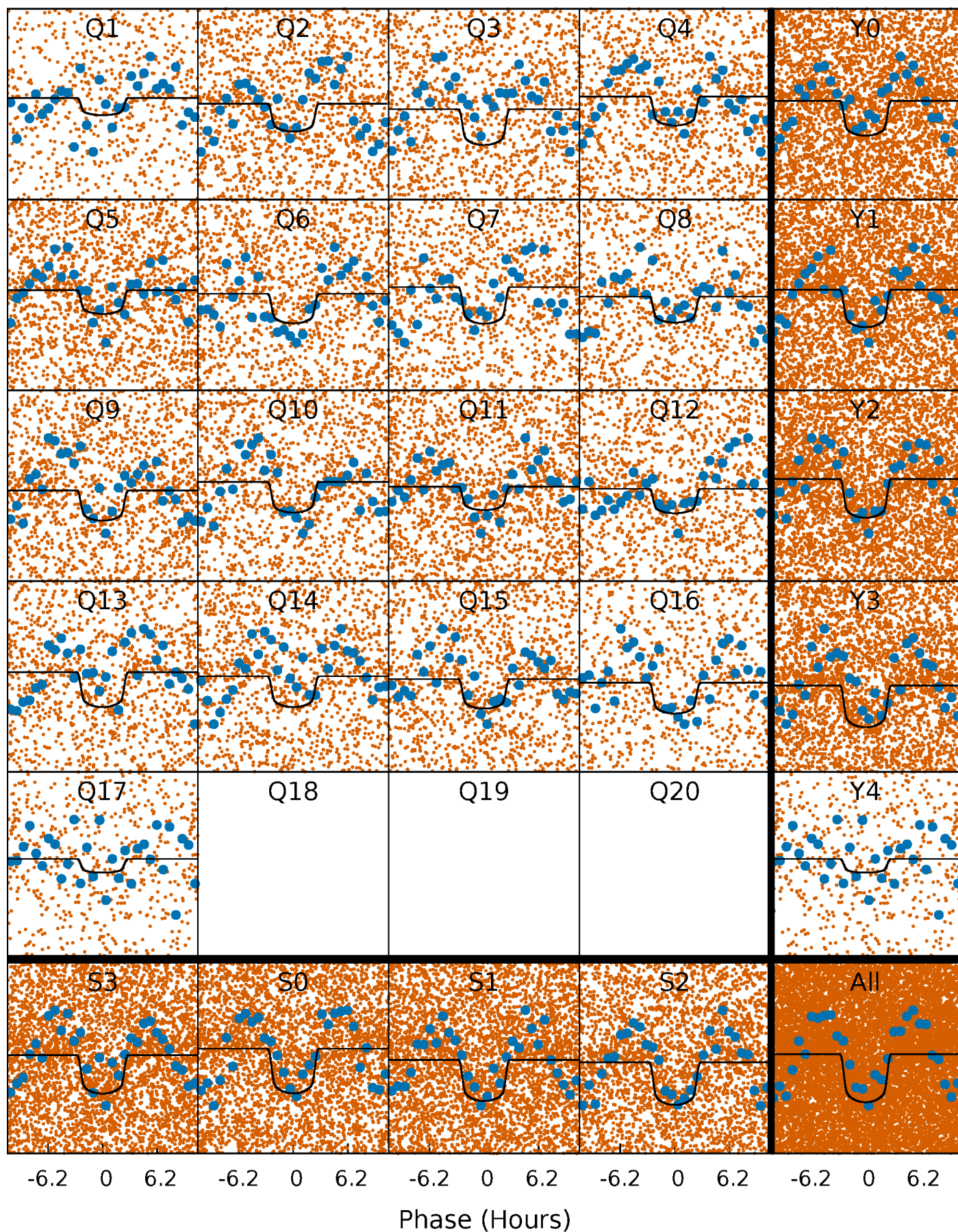
PDC Quarter-Phased Transit Curves

TCE 007547306-01 P= 0.846760 Days $T_0=131.801852$ (BKJD)



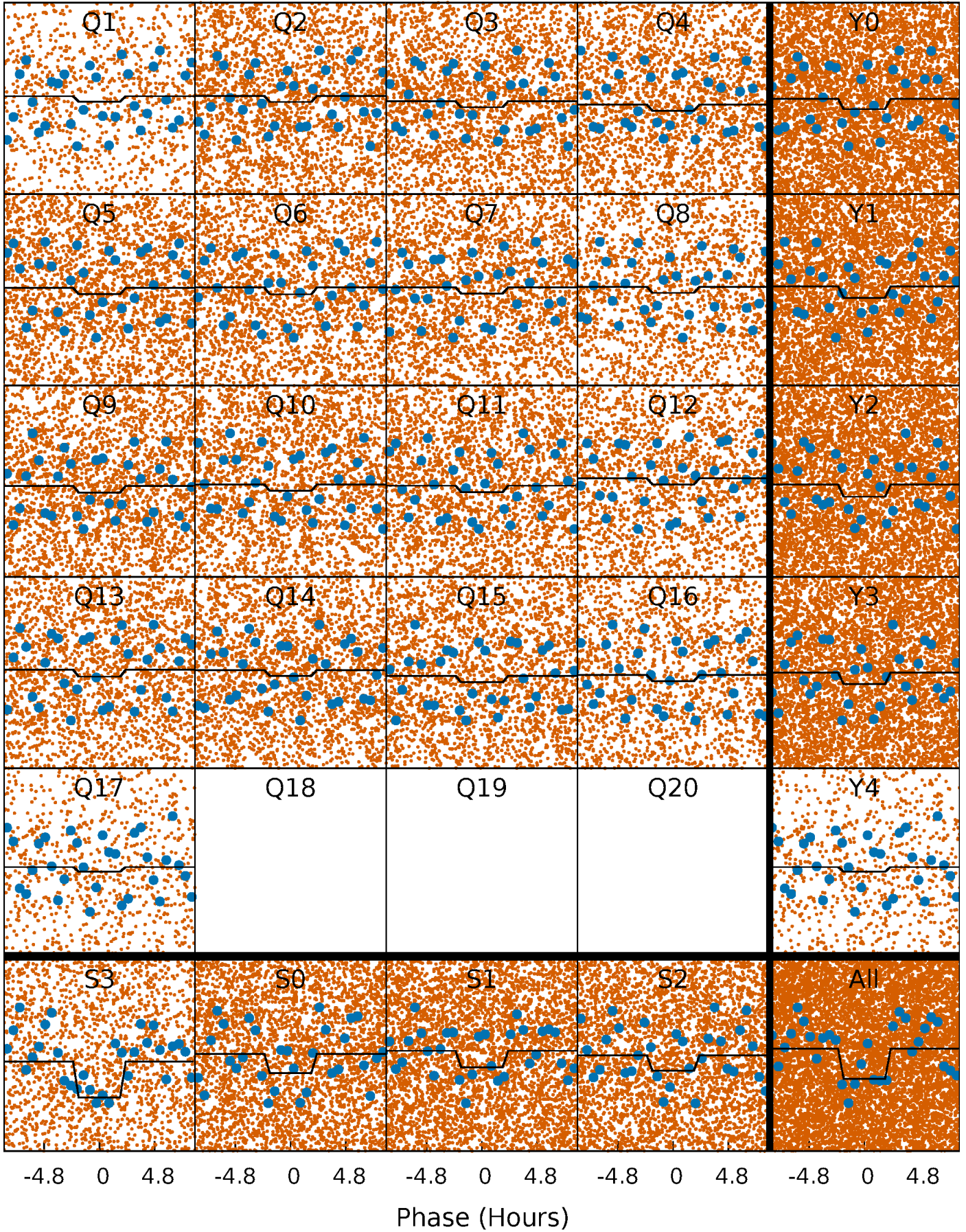
DV Quarter-Phased Transit Curves

TCE 007547306-01 P= 0.846760 Days $T_0=131.801852$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

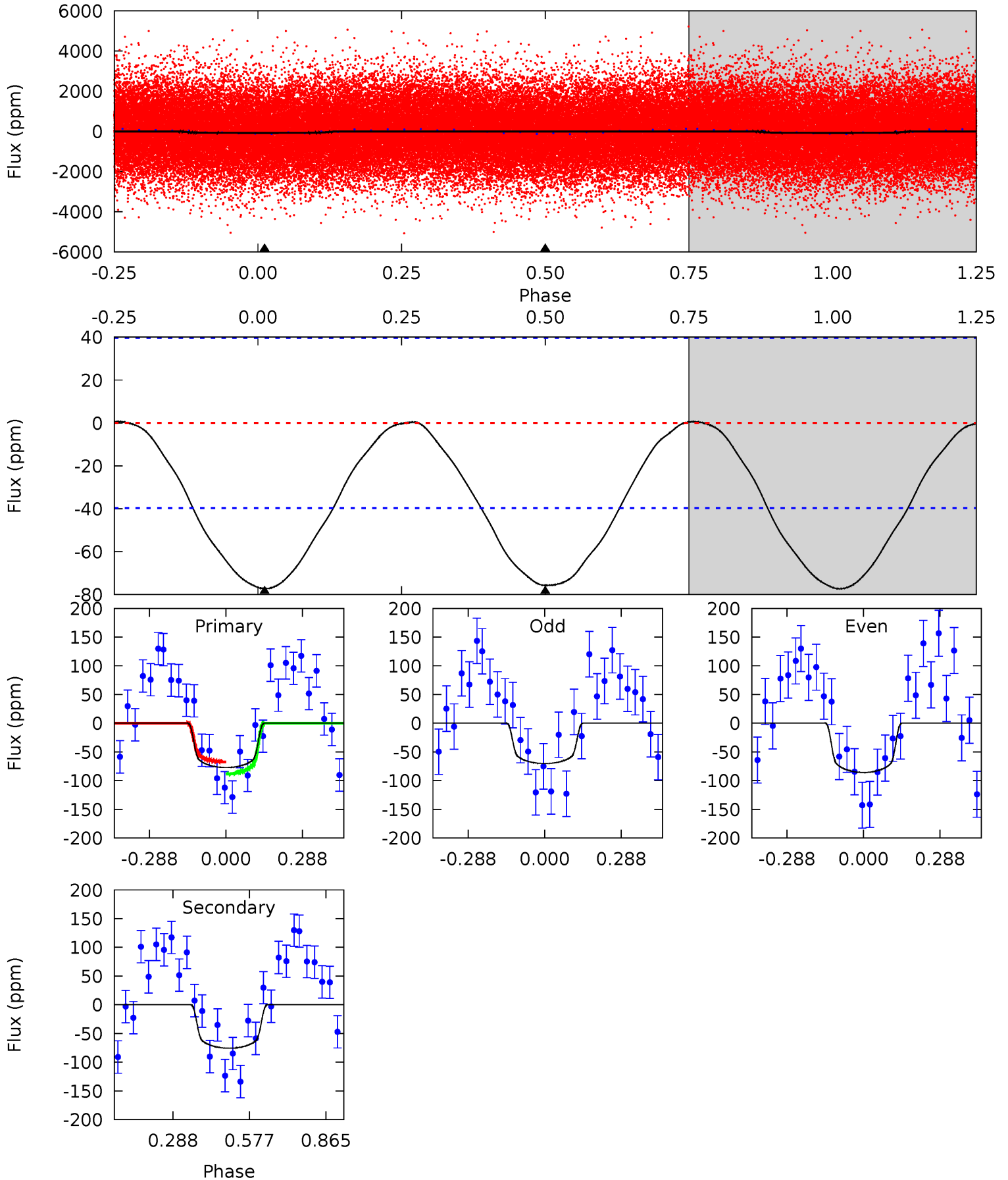
TCE 007547306-01 P= 0.846785 Days $T_0=131.808517$ (BKJD)



DV Model-Shift Uniqueness Test

007547306-01, P = 0.846760 Days, E = 130.955092 Days

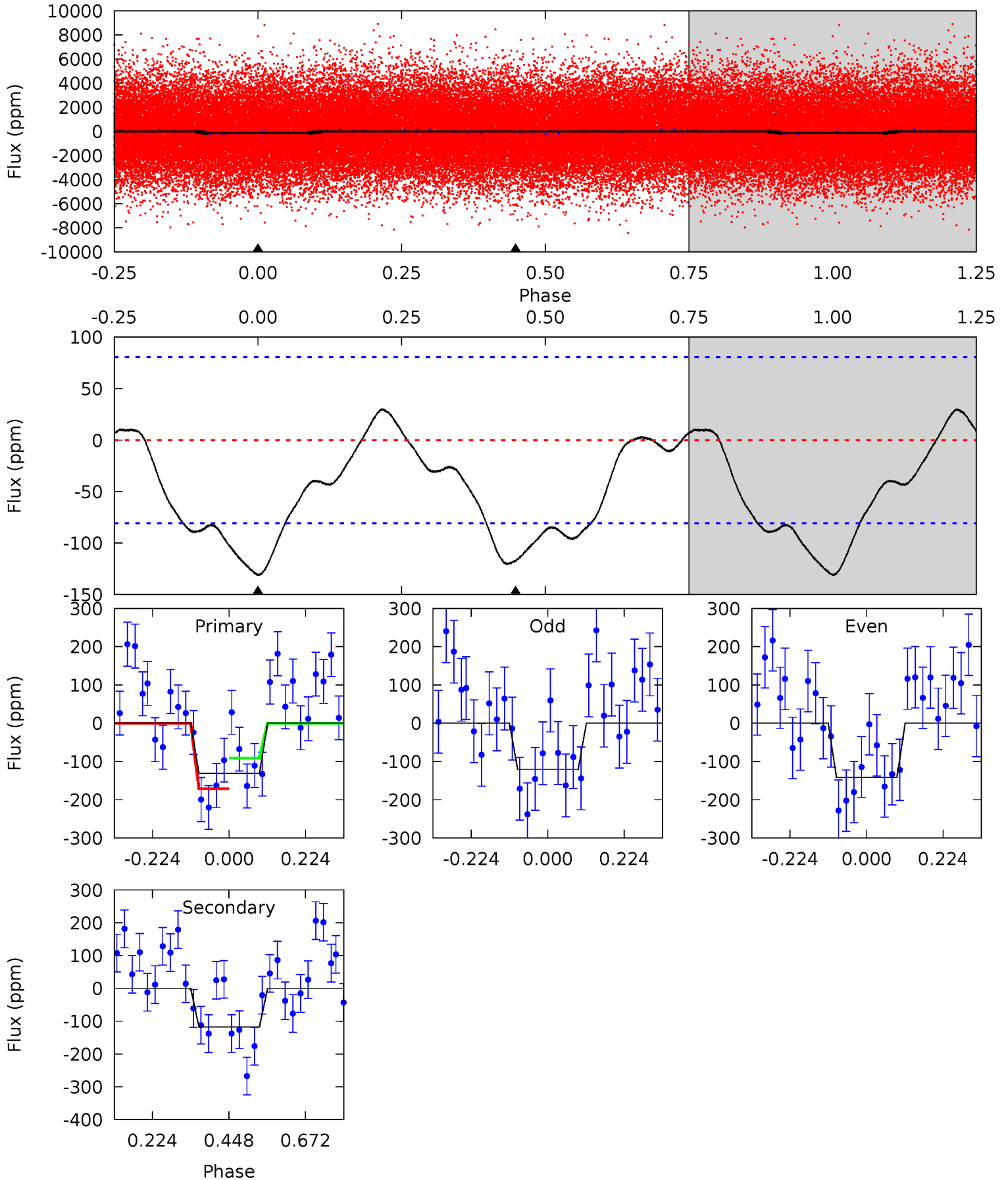
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.45	8.27	0	0	4.34	1.06	0.08	8.45	8.45	8.27	8.27	0.86	0.95	0.01	1.15



Alt Model-Shift Uniqueness Test

007547306-01, P = 0.846785 Days, E = 130.961732 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.14	6.40	0	0	4.39	1.22	0.39	7.14	7.14	6.40	6.40	0.57	0.93	0.19	2.19



Stellar Parameters For KIC 007547306

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7392^{+203}_{-330}	$3.543^{+0.580}_{-0.061}$	$-0.100^{+0.250}_{-0.300}$	$4.007^{+0.395}_{-2.236}$	$2.047^{+0.146}_{-0.585}$	$0.045^{+0.304}_{-0.009}$
	+3%/-4%	+16%/-2%	+250%/-300%	+10%/-56%	+7%/-29%	+679%/-20%
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 007547306-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-76 ± 9	$4.61^{+1.51}_{-1.57}$	5839^{+461}_{-770}	5600^{+1232}_{-888}	$0.949^{+1.200}_{-0.409}$
Alt.	-118 ± 18	$4.33^{+1.53}_{-1.48}$	5844^{+418}_{-864}	6758^{+1484}_{-1020}	$1.650^{+2.004}_{-0.728}$

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 $A_{obs} \gg 1.0$

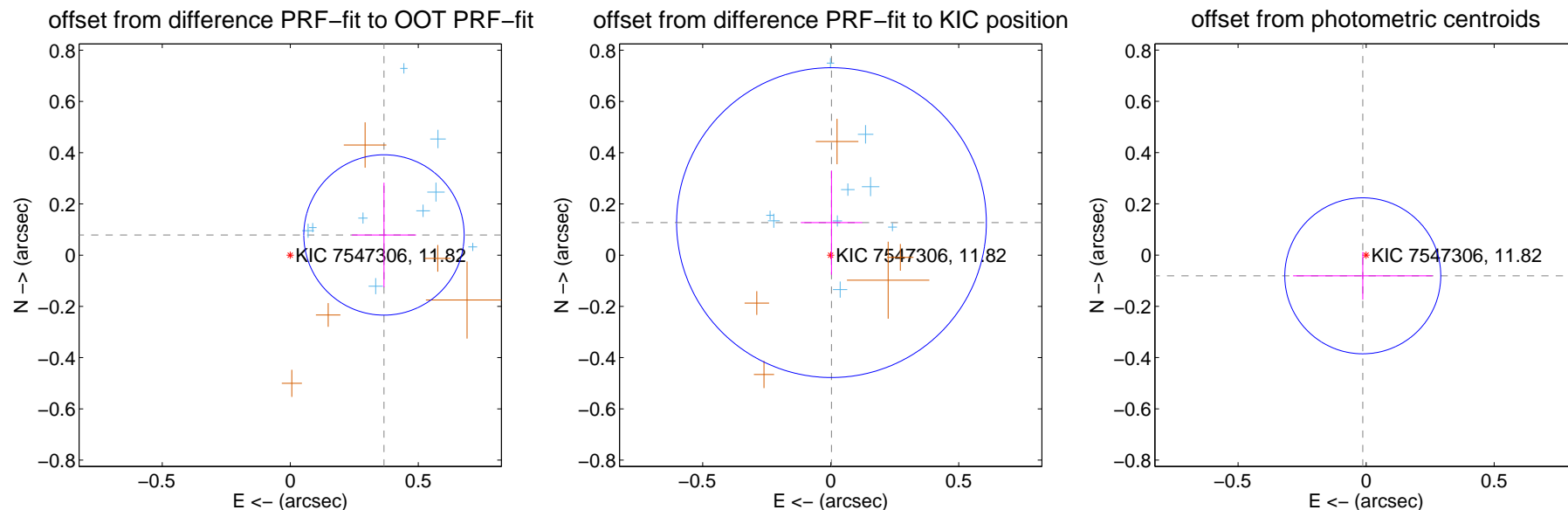
DV Centroid Data

Supplemental centroid analysis for 007547306-01. **Kepler magnitude: 11.82.** Transit SNR 15.25

There are 11 quarters with good PRF difference image offsets

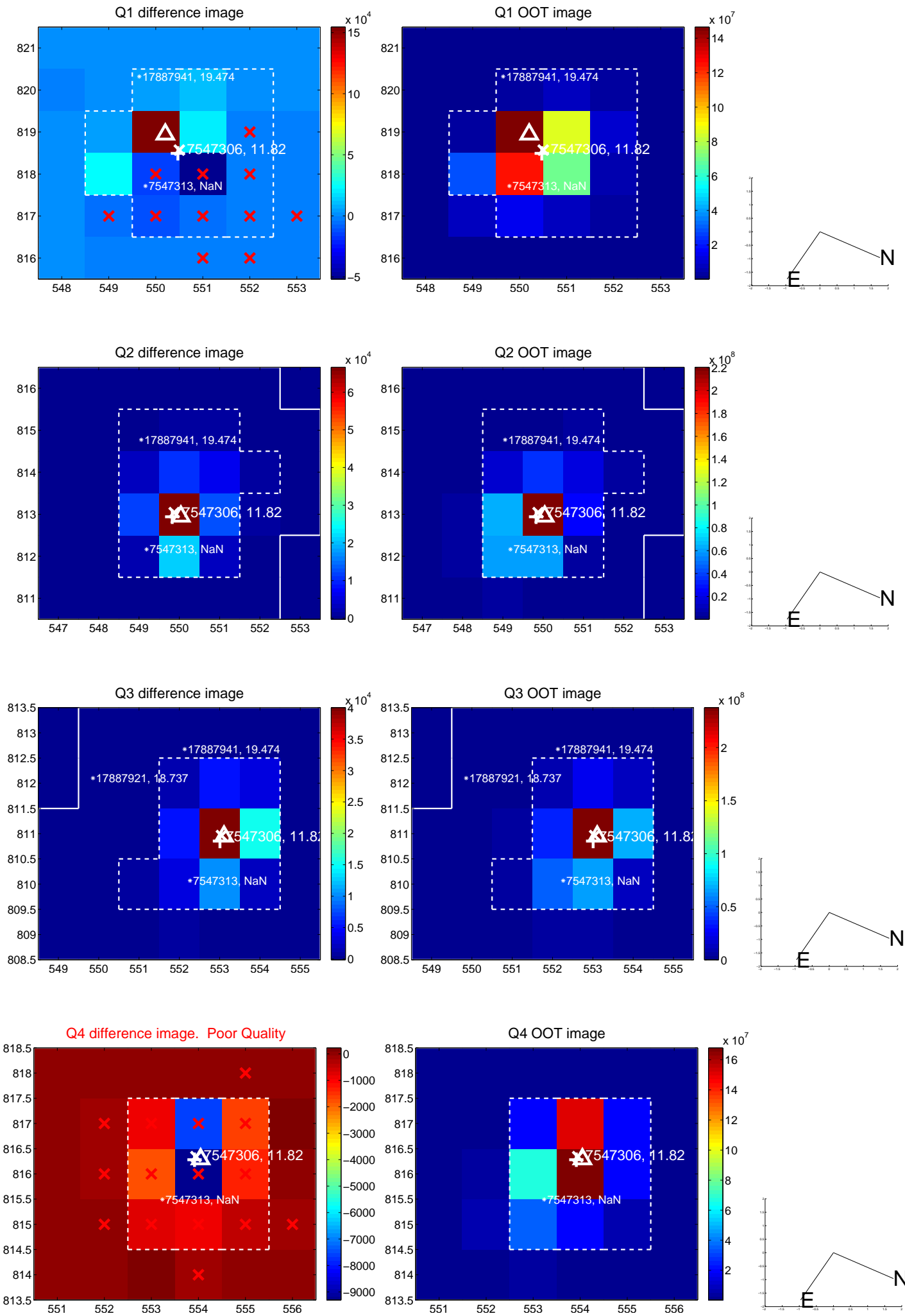
The direct PRF centroid is offset from the target star catalog position by about 0.32 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.374 ± 0.104	3.59	-0.366 ± 0.125	0.079 ± 0.204
PRF-fit source offset from KIC position	0.127 ± 0.202	0.63	-0.003 ± 0.120	0.127 ± 0.203
photometric centroid source offset	0.08 ± 0.10	0.81	0.01 ± 0.27	-0.08 ± 0.09

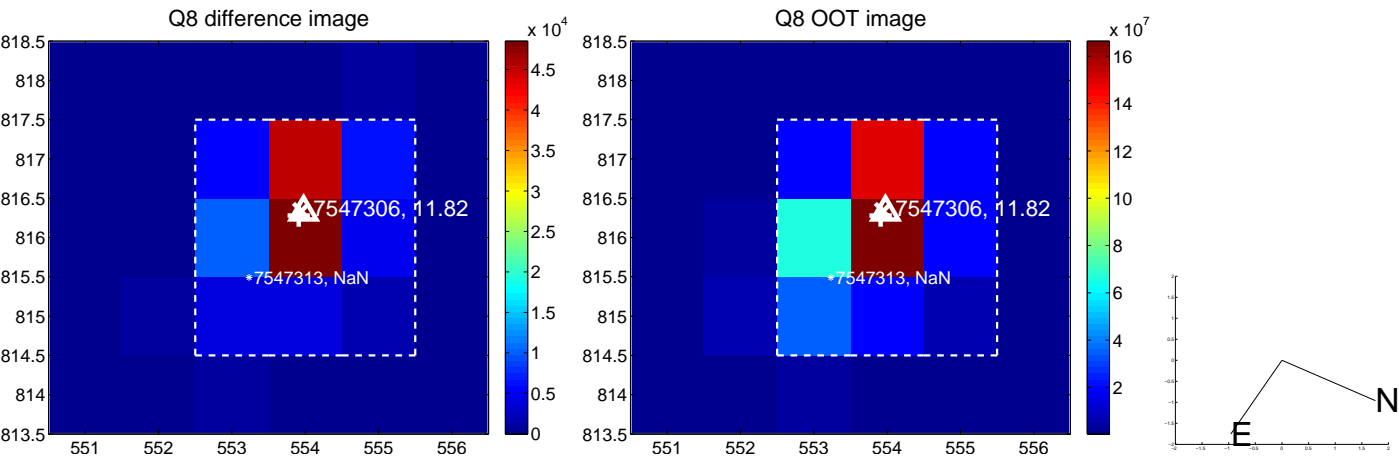
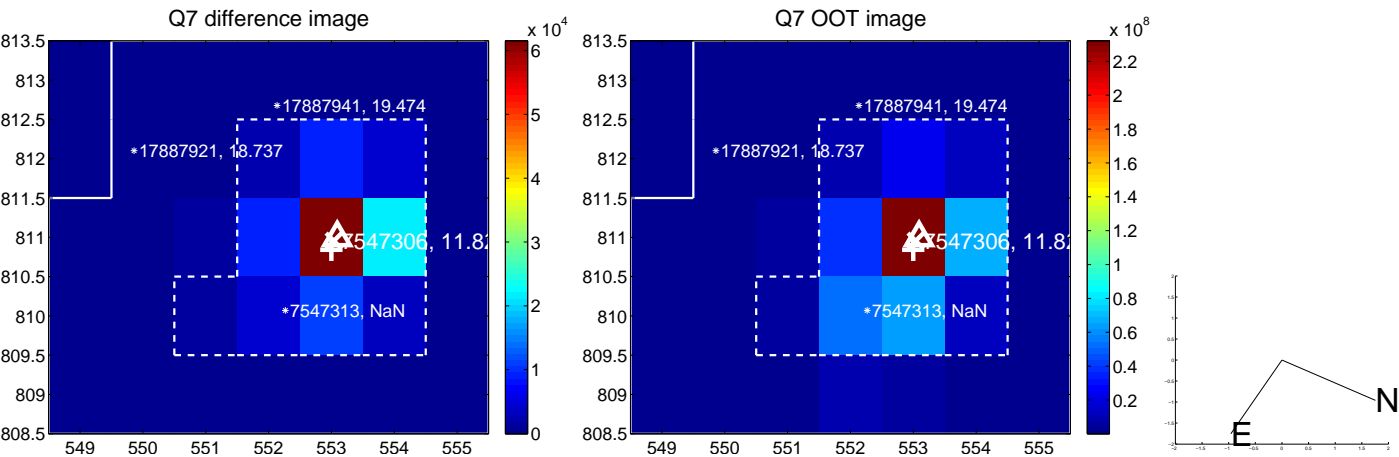
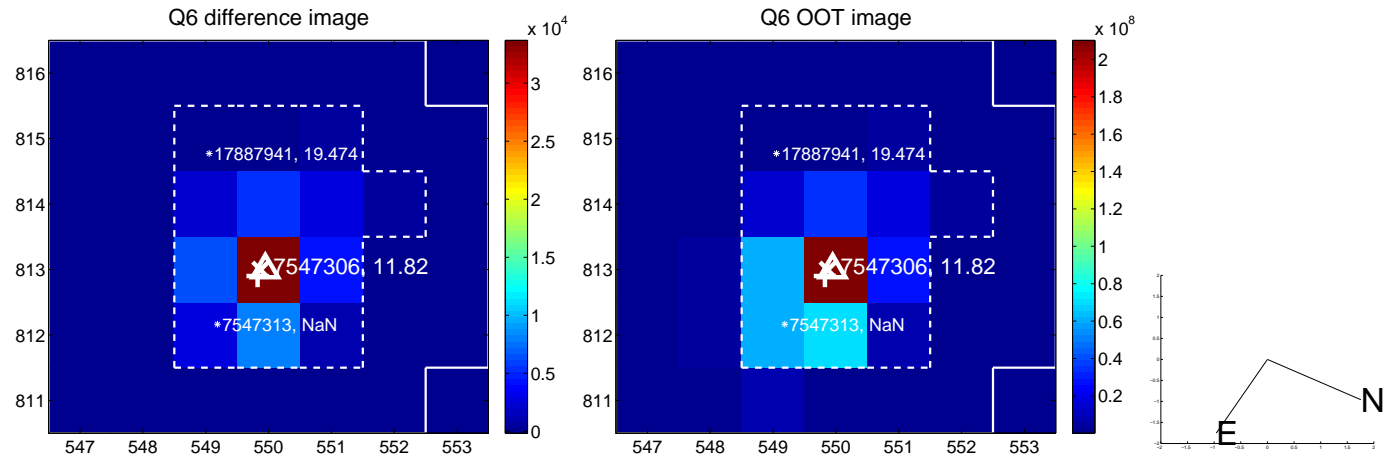
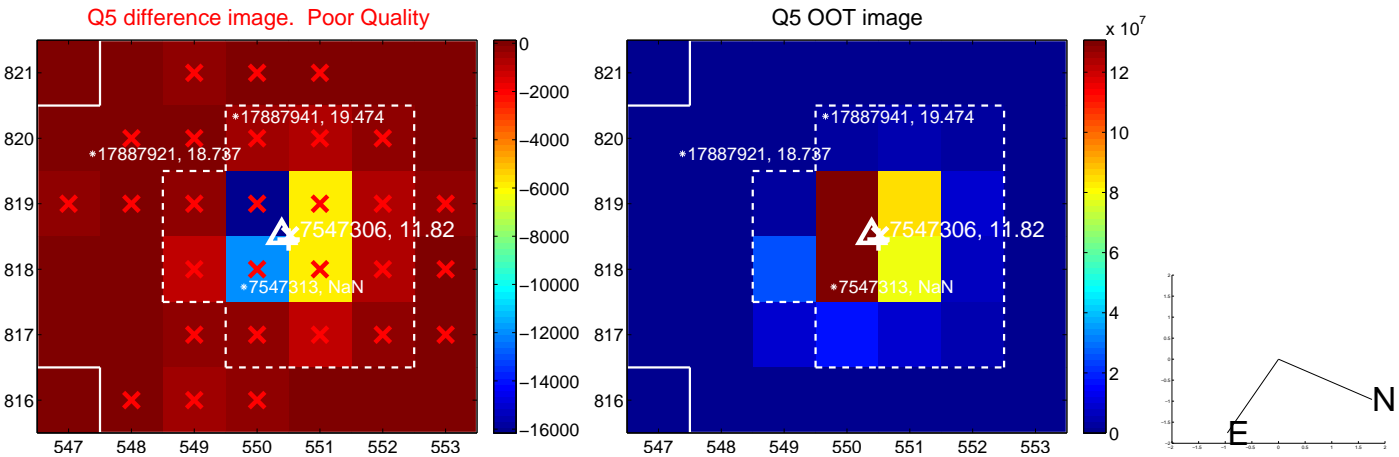


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

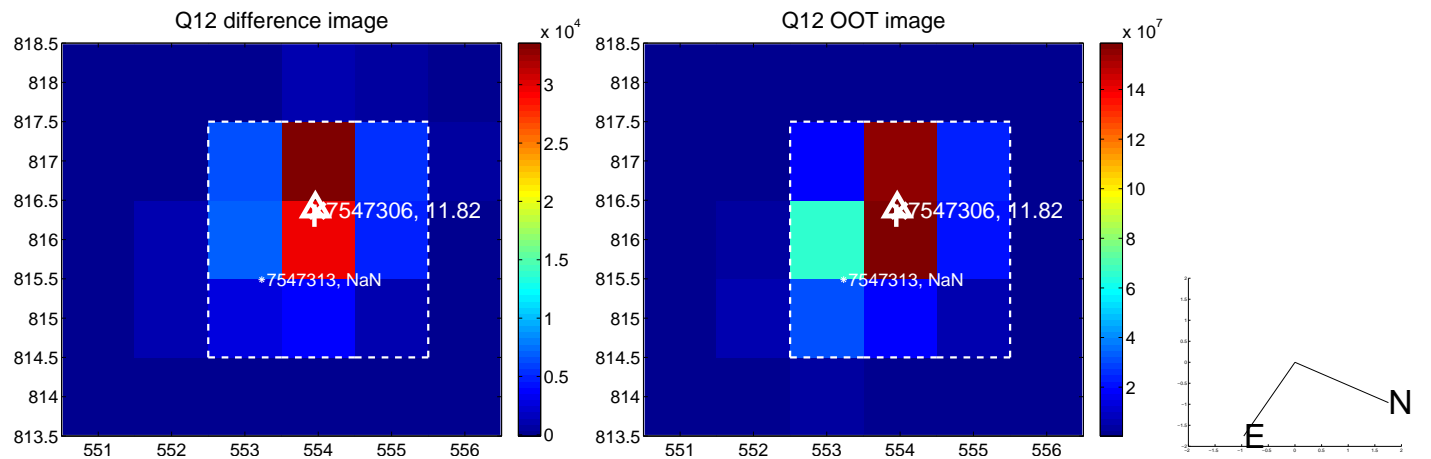
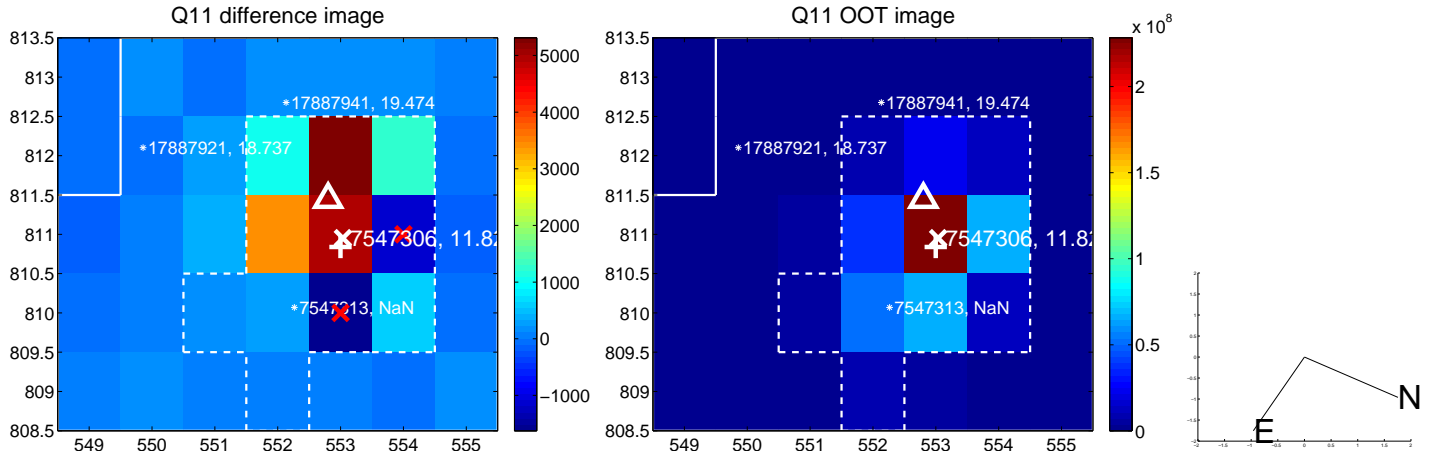
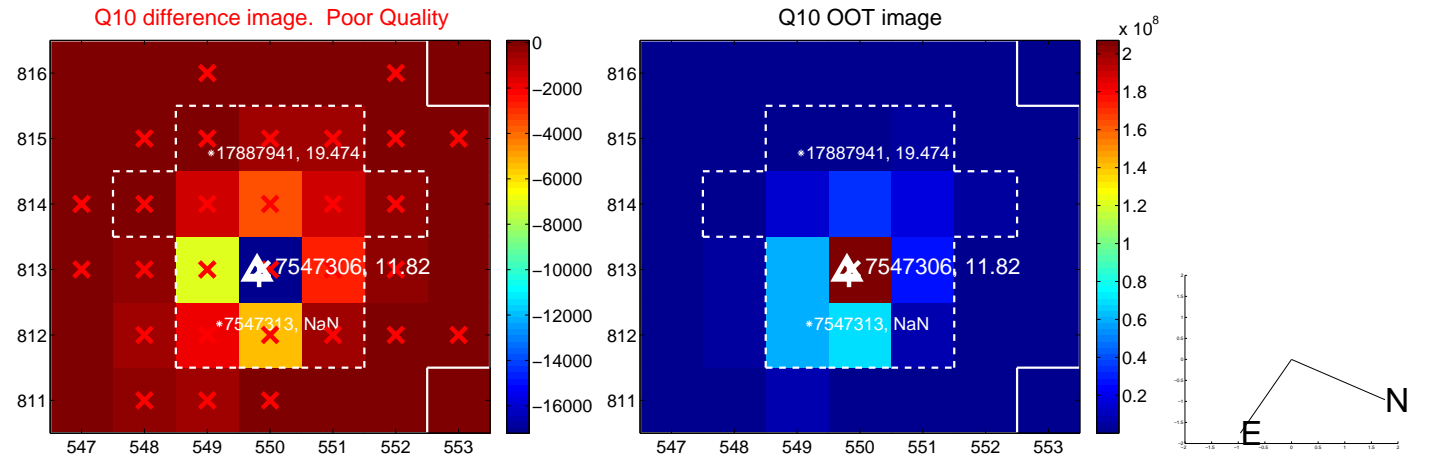
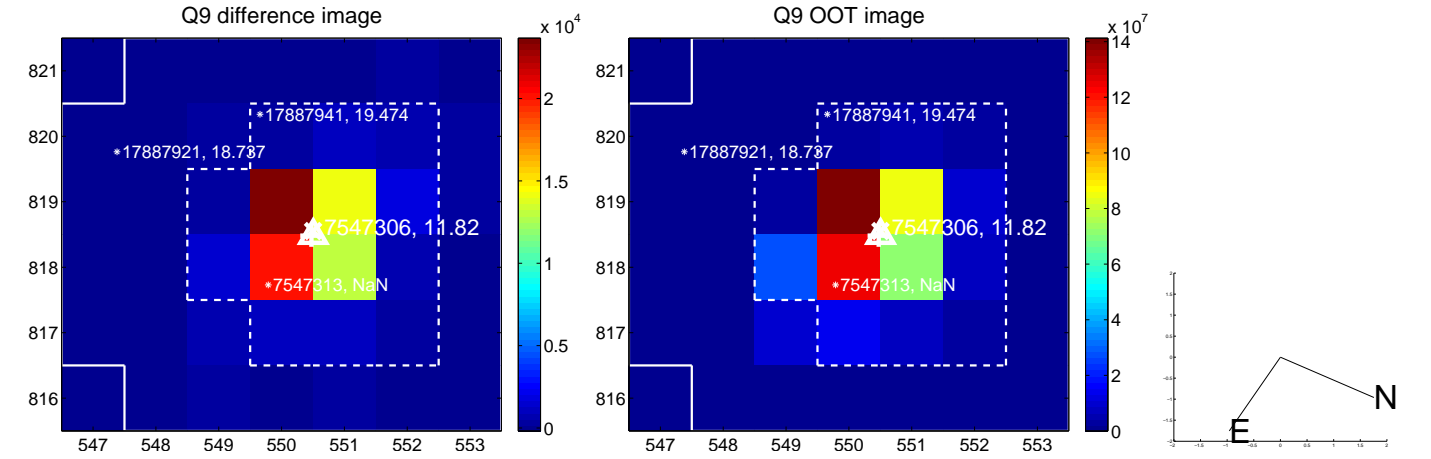
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



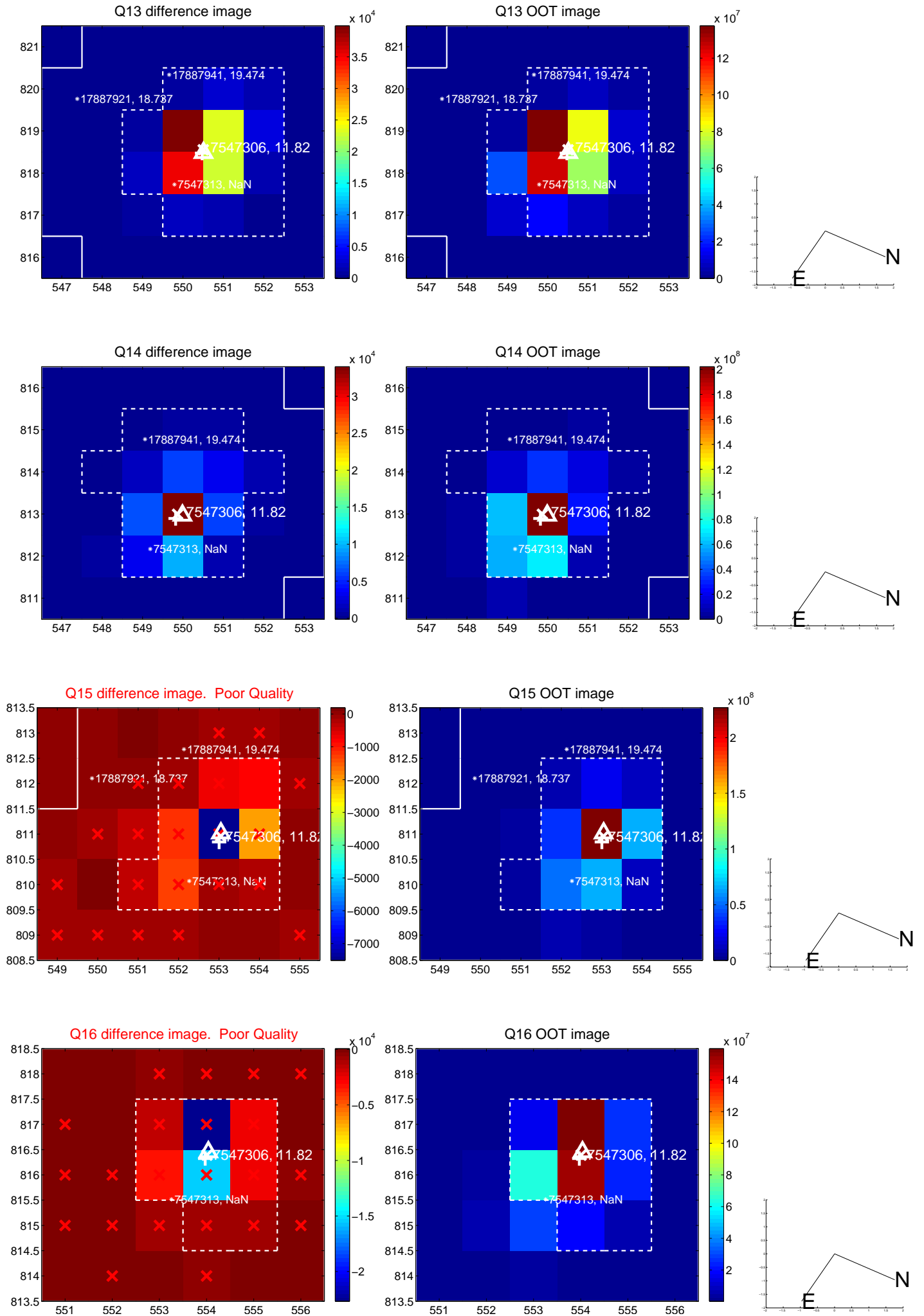
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



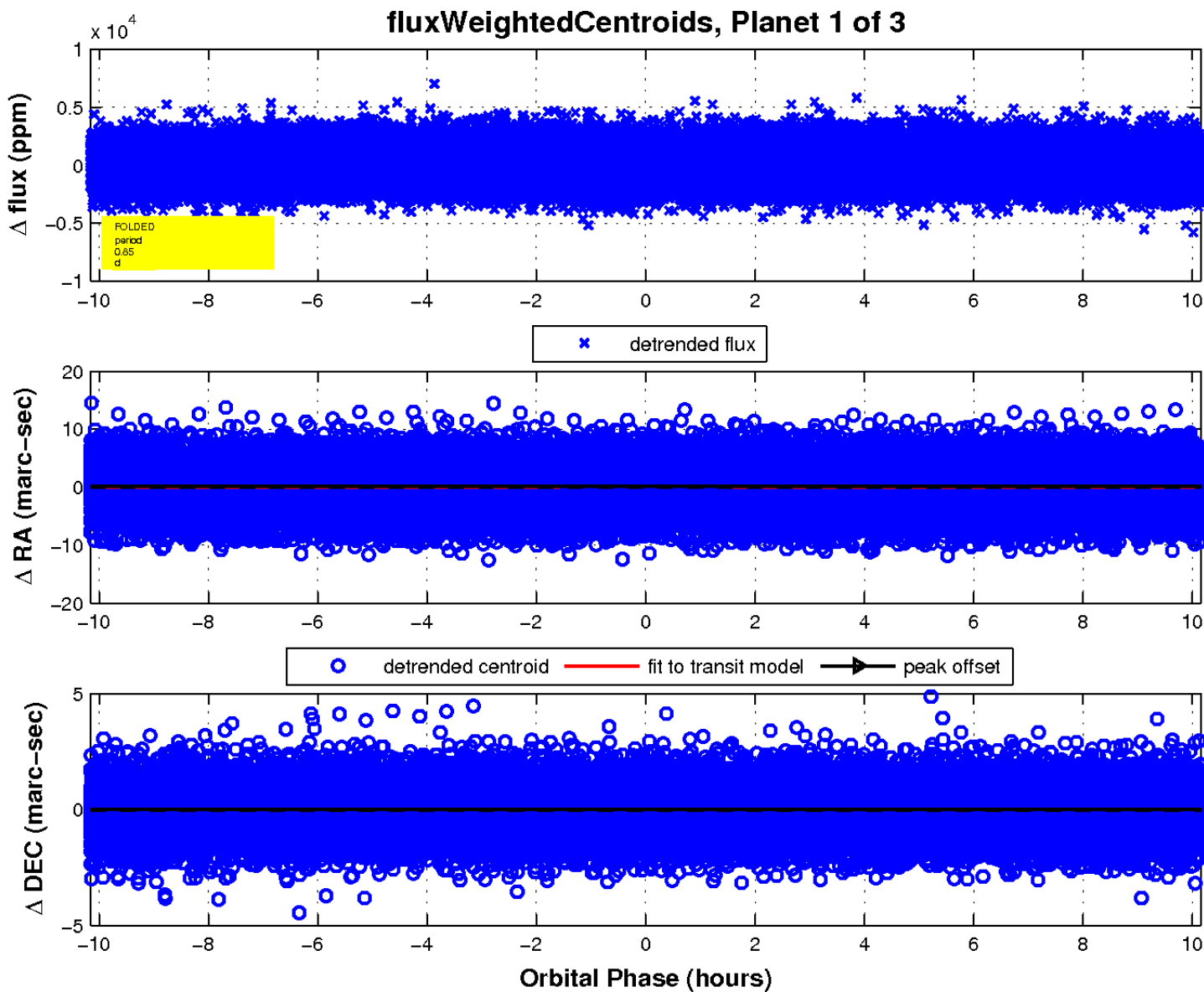
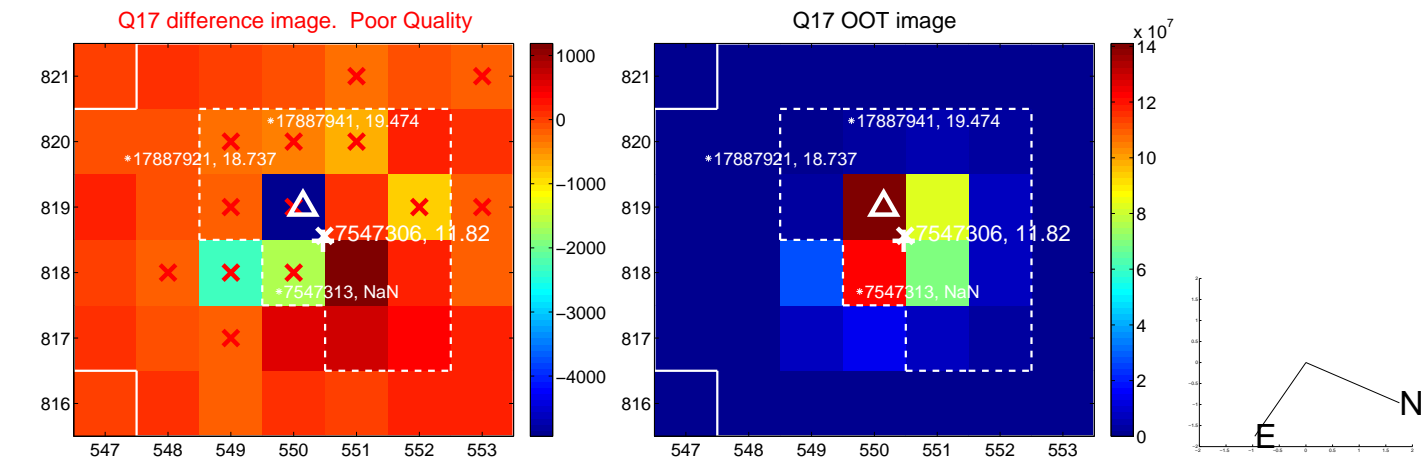
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

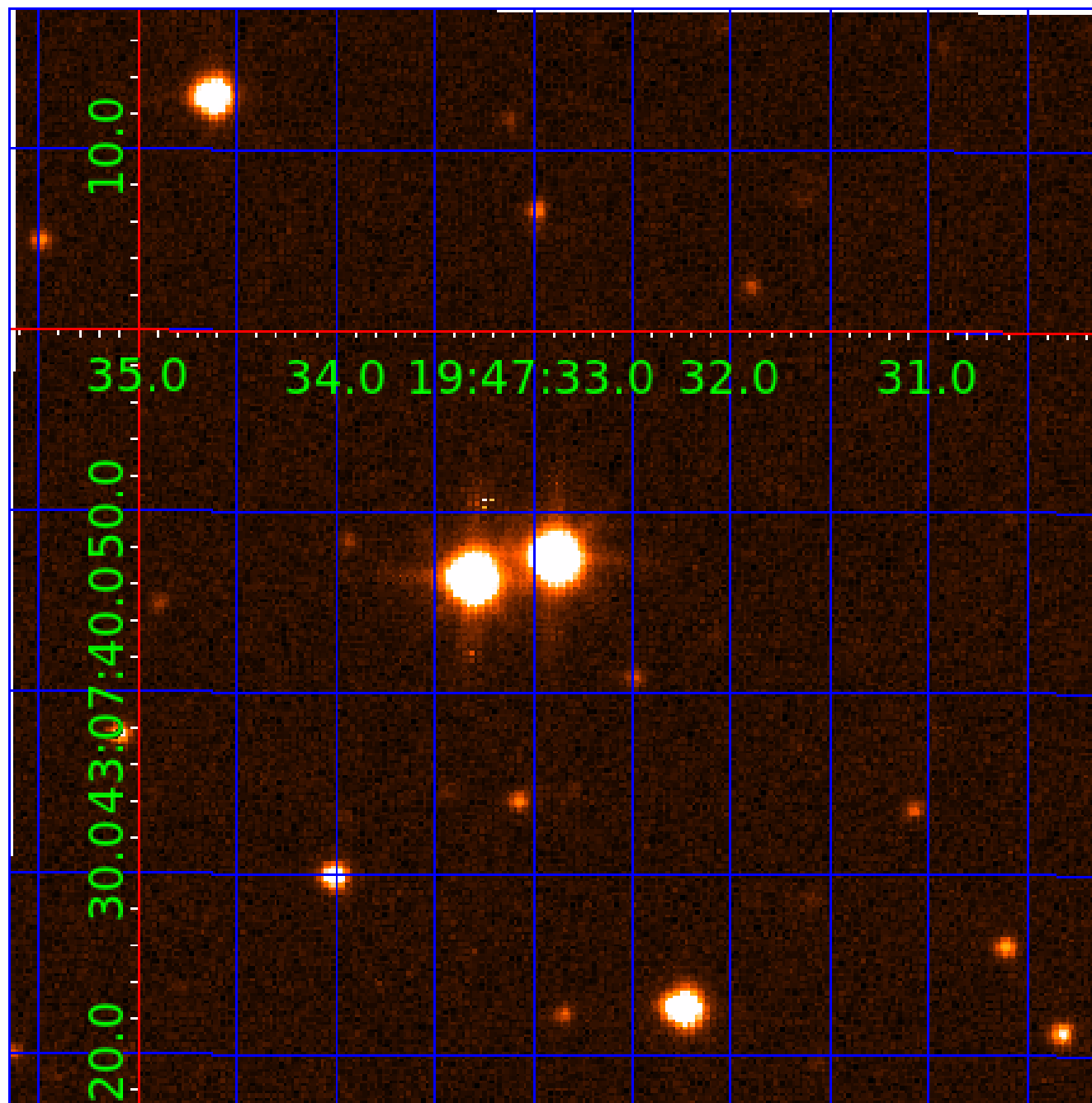


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007547306

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})
007547306-01	OBS	No	0.846760	131.801853	127.8	5.416	12.8	15.2	4.01	7392	5.26	86857.62
007547306-02	OBS	No	0.531579	131.911043	755.3	1.143	16.1	22.8	4.01	7392	12.90	0.00
007547306-03	OBS	No	0.531576	131.649334	590.6	1.046	14.2	18.4	4.01	7392	10.01	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007547306-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_KIC_POS
007547306-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007547306-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_KIC_POS

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

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

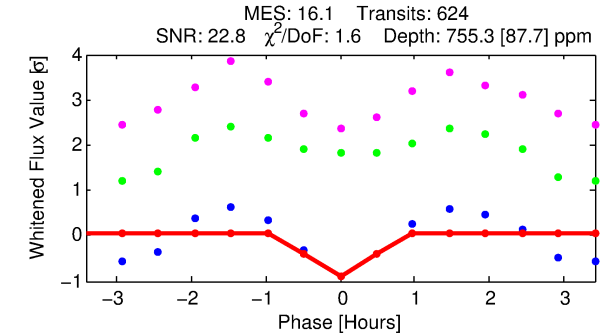
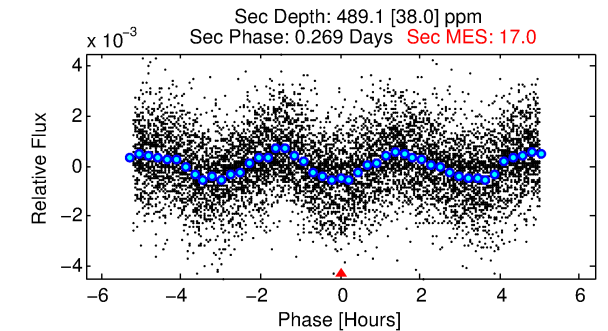
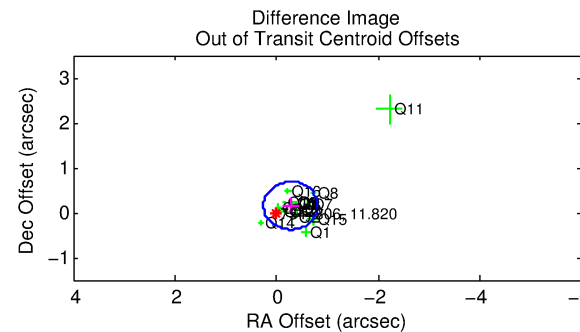
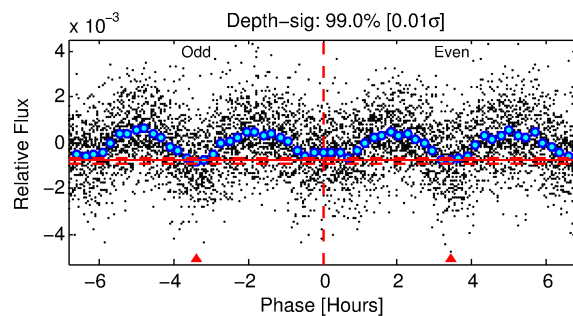
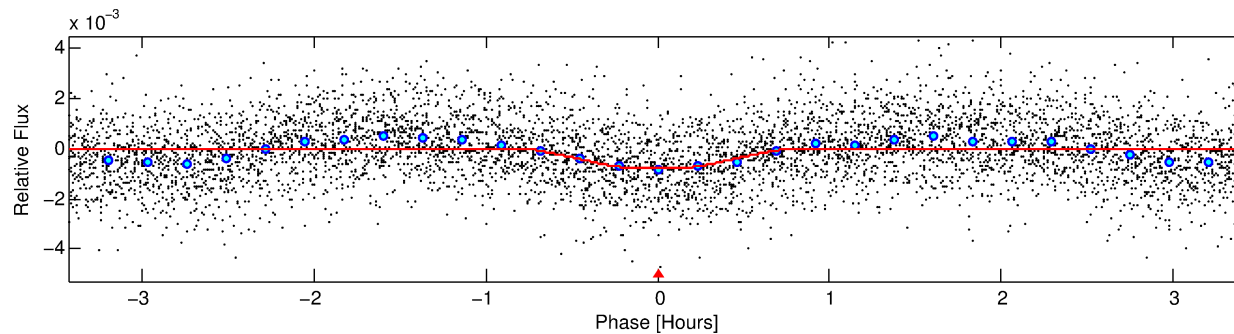
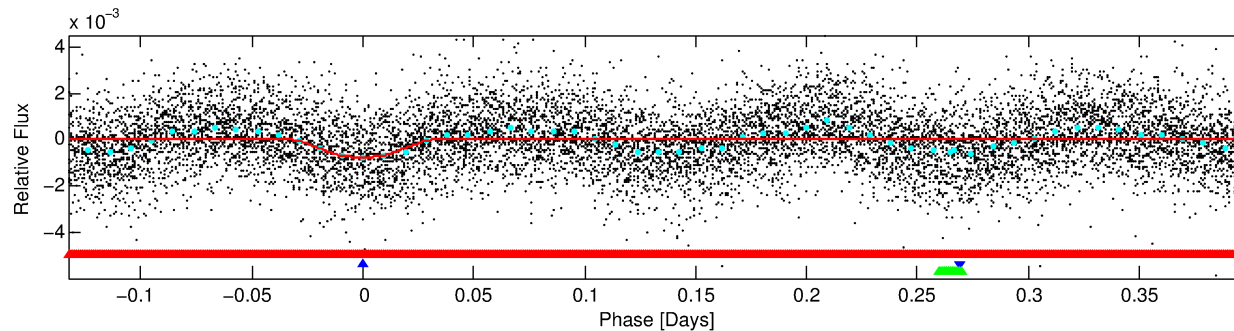
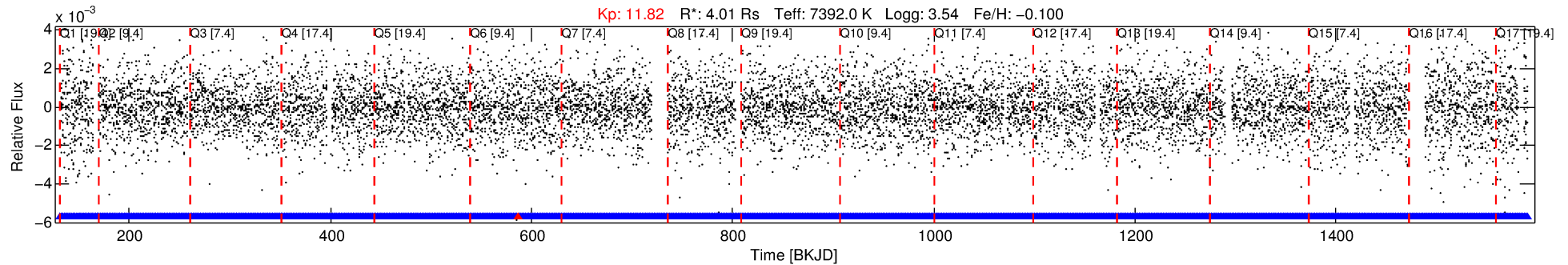
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007547306-02

No Significant Match Found

DV One-Page Summary

KIC: 7547306 Candidate: 2 of 3 Period: 0.532 d



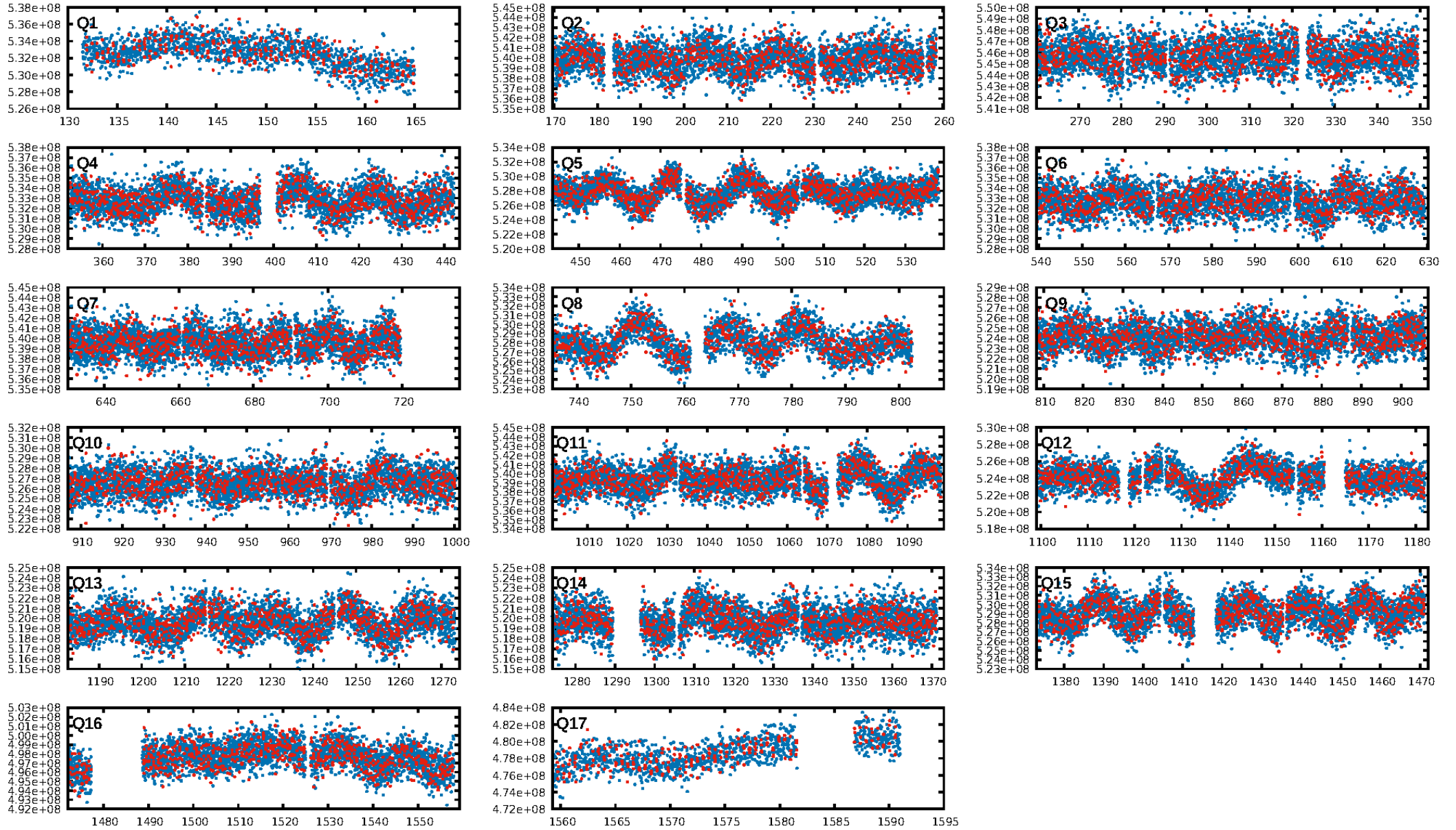
DV Fit Results:

Period = 0.53158 [0.00001] d
Epoch = 131.9110 [0.0011] BKJD
Rp/R* = 0.0295 [0.0083]
a/R* = 2.00 [2.45]
b = 0.90 [0.34]
Seff = N/A
Teq = N/A
Rp = 12.90 [8.06] Re
a = N/A
Ag = N/A
Teffp = N/A

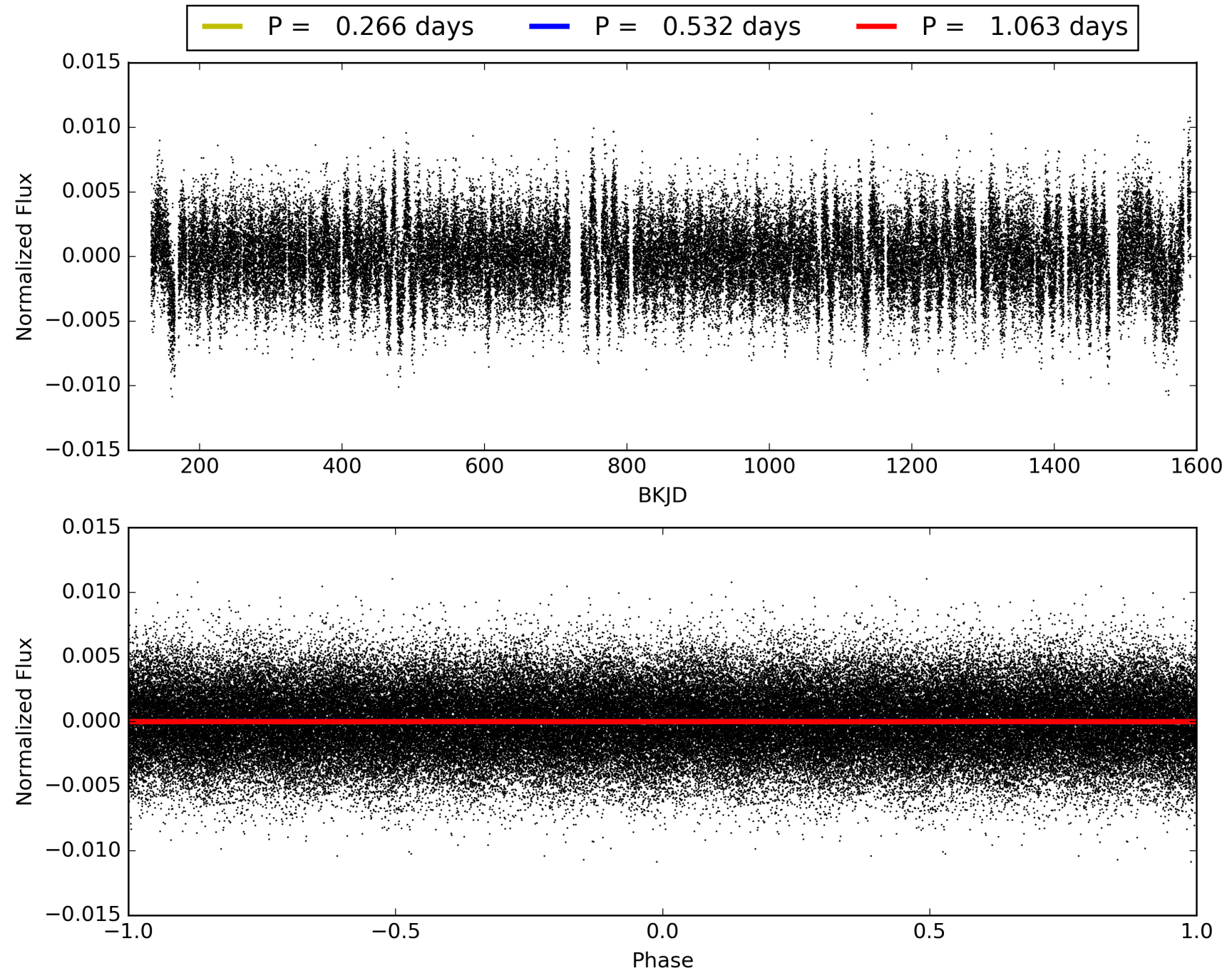
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 82.8% [1.37 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [594/595]
GhostDiagnostic-chr: -1.751
Centroid-sig: 3.2%
Centroid-so: 0.625 arcsec [10.54 σ]
OotOffset-rm: 0.313 arcsec [1.77 σ]
KicOffset-rm: 0.200 arcsec [1.60 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.94 [16/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 007547306-02, PDC Light Curves

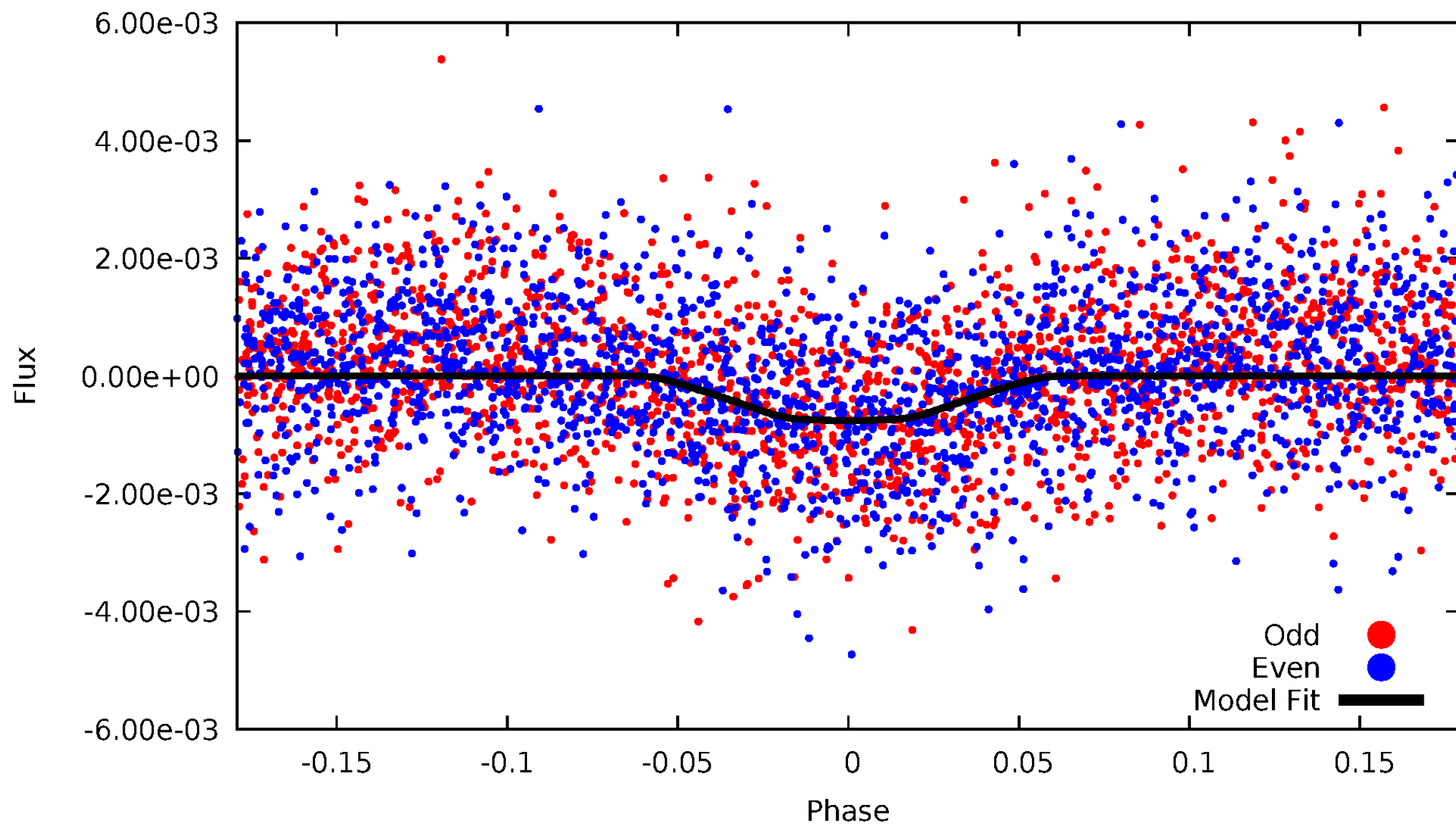


TCE 007547306-02



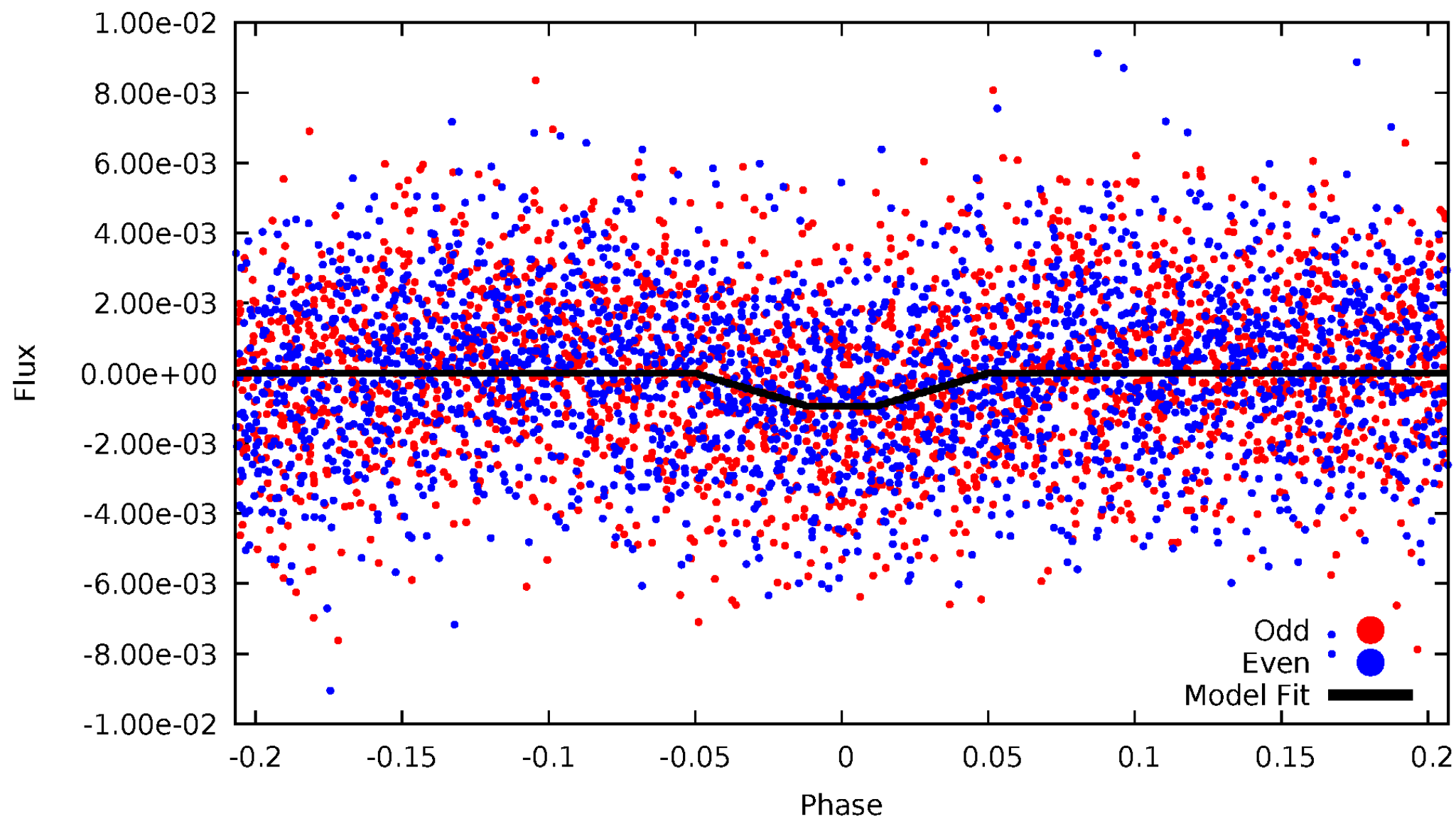
DV Odd/Even

TCE 007547306-02



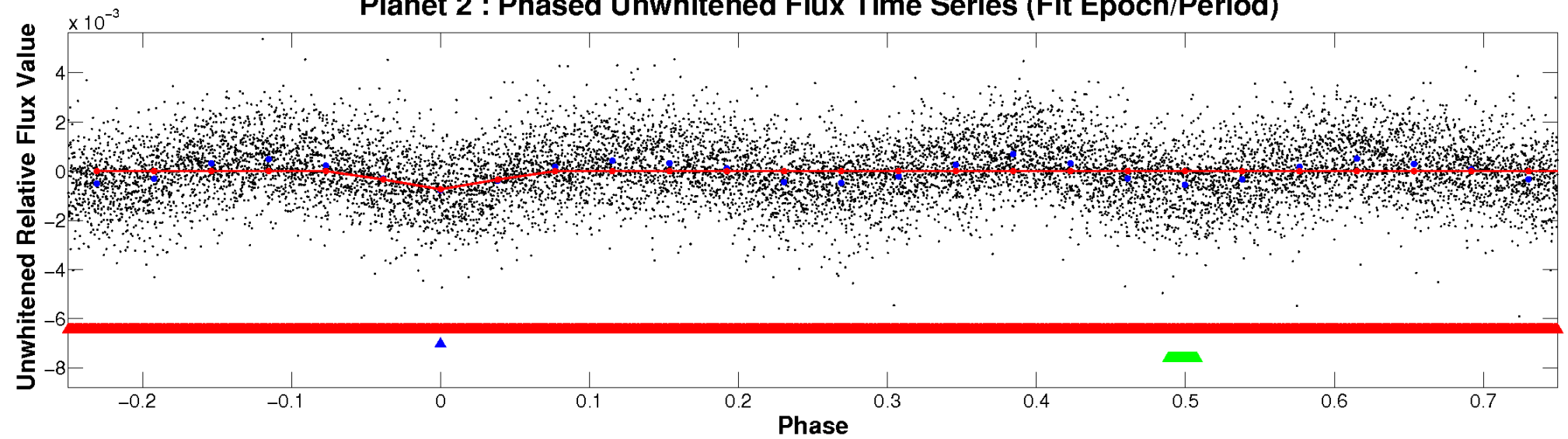
ALT Odd/Even

TCE 007547306-02

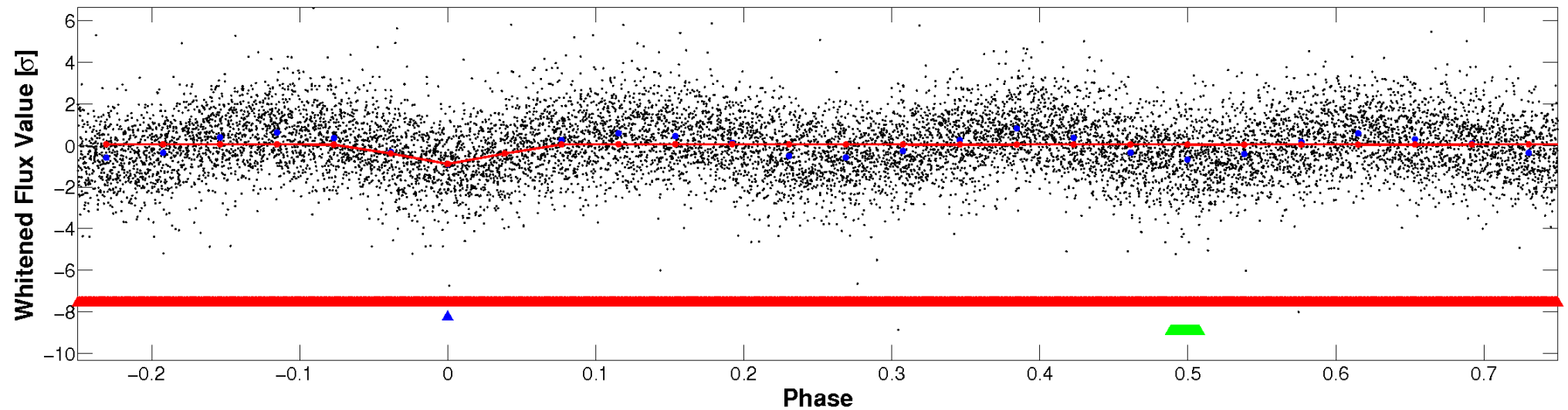


Non-Whitened Vs. Whitened Light Curve

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

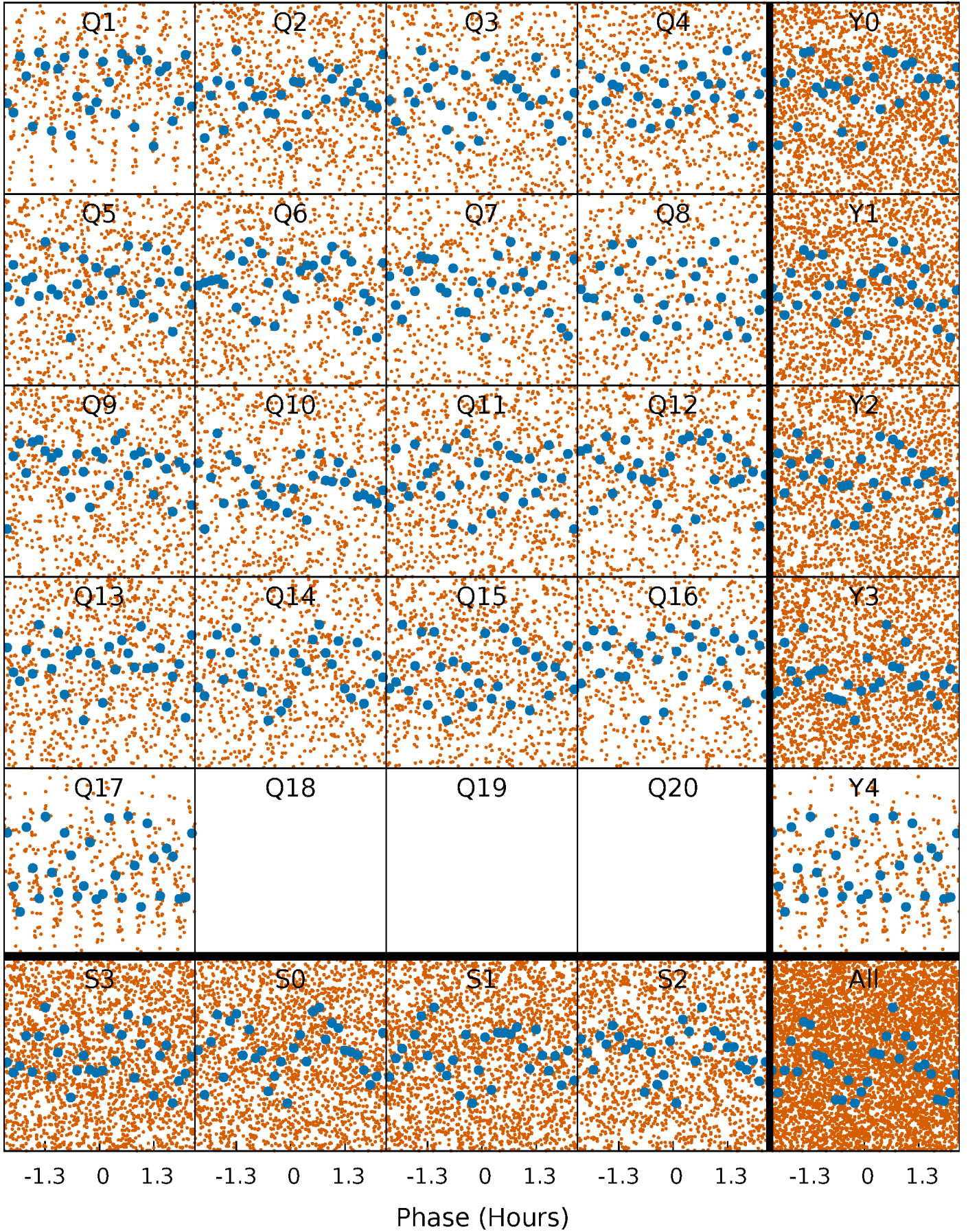


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



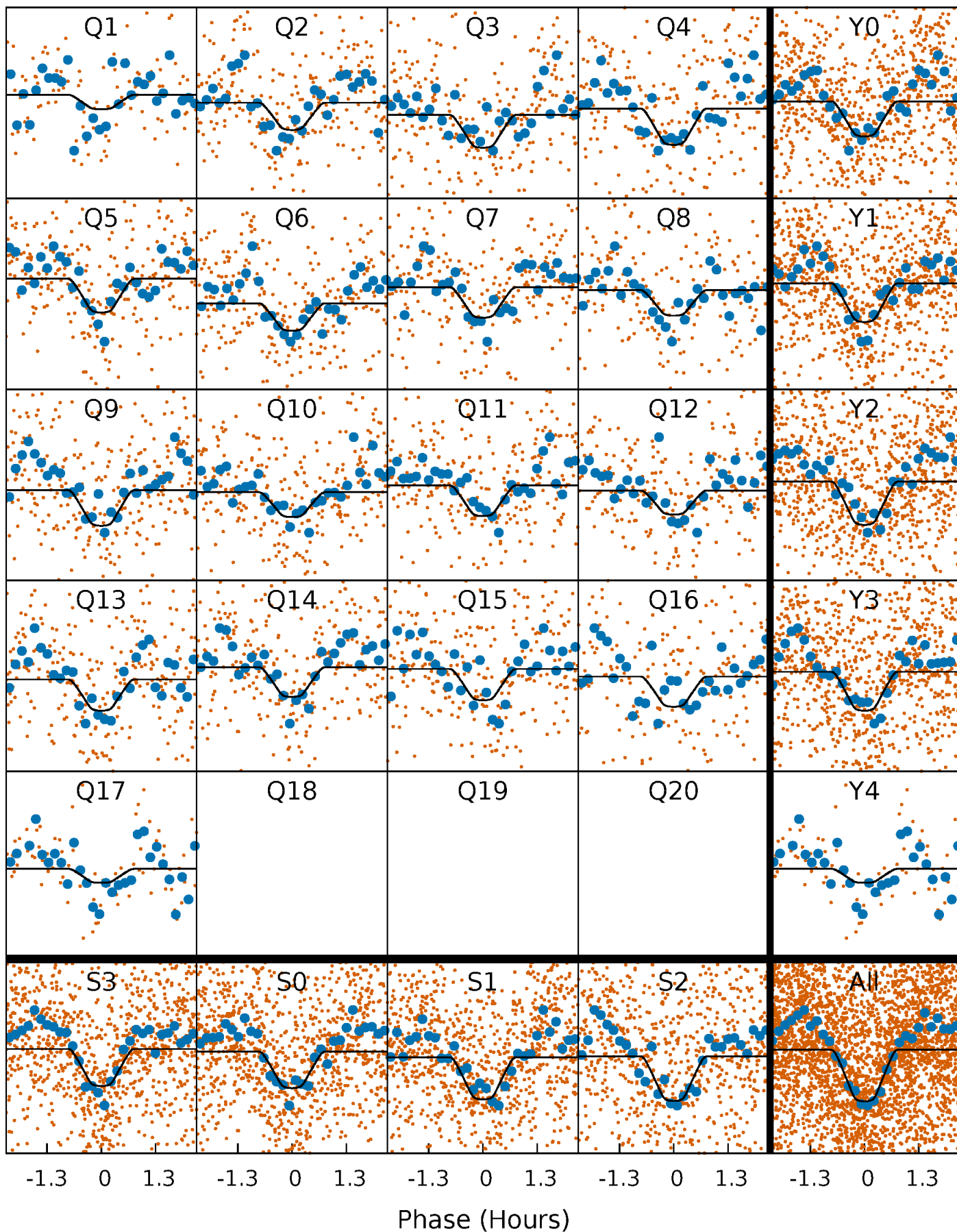
PDC Quarter-Phased Transit Curves

TCE 007547306-02 P= 0.531579 Days $T_0=131.911043$ (BKJD)



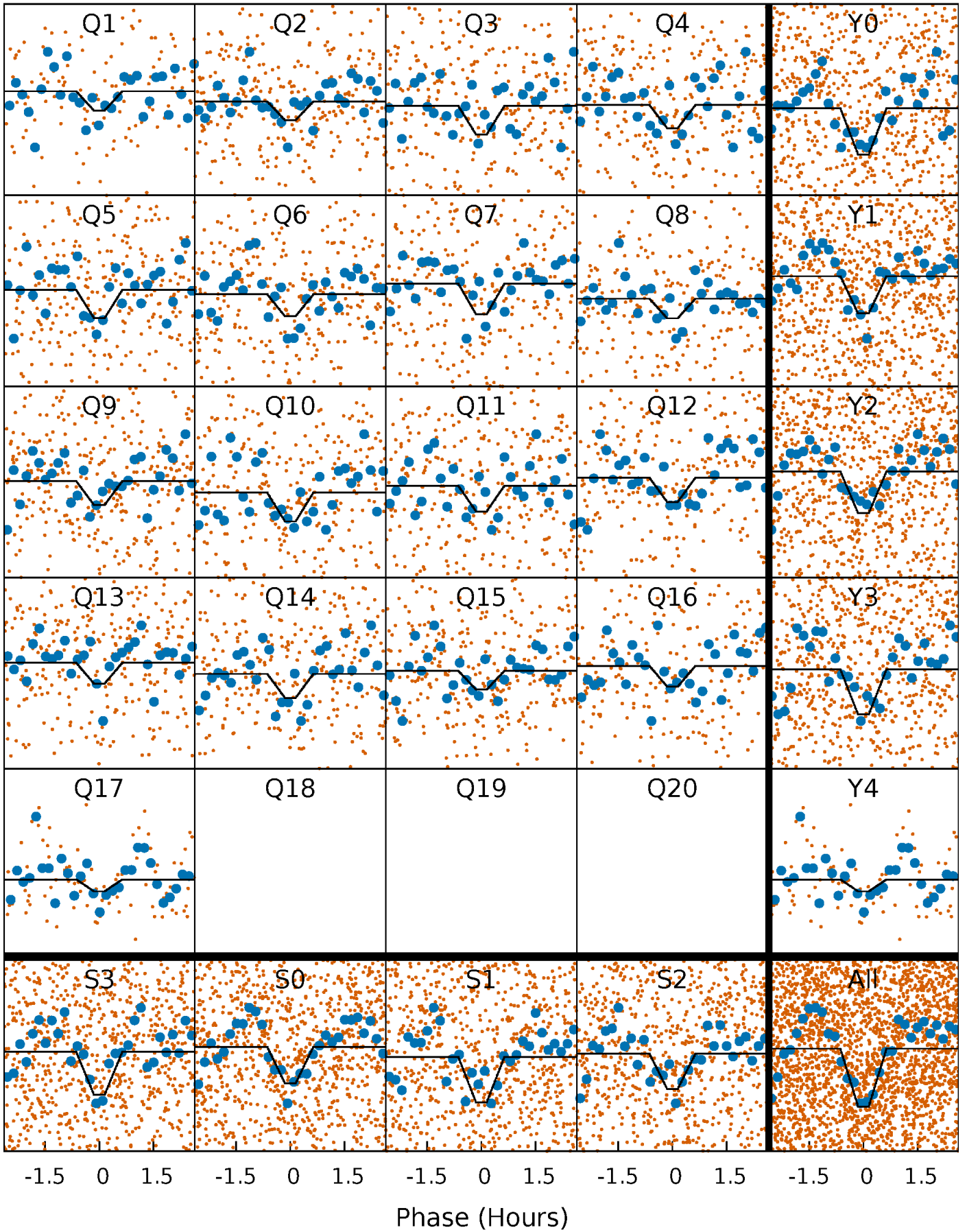
DV Quarter-Phased Transit Curves

TCE 007547306-02 P= 0.531579 Days $T_0=131.911043$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

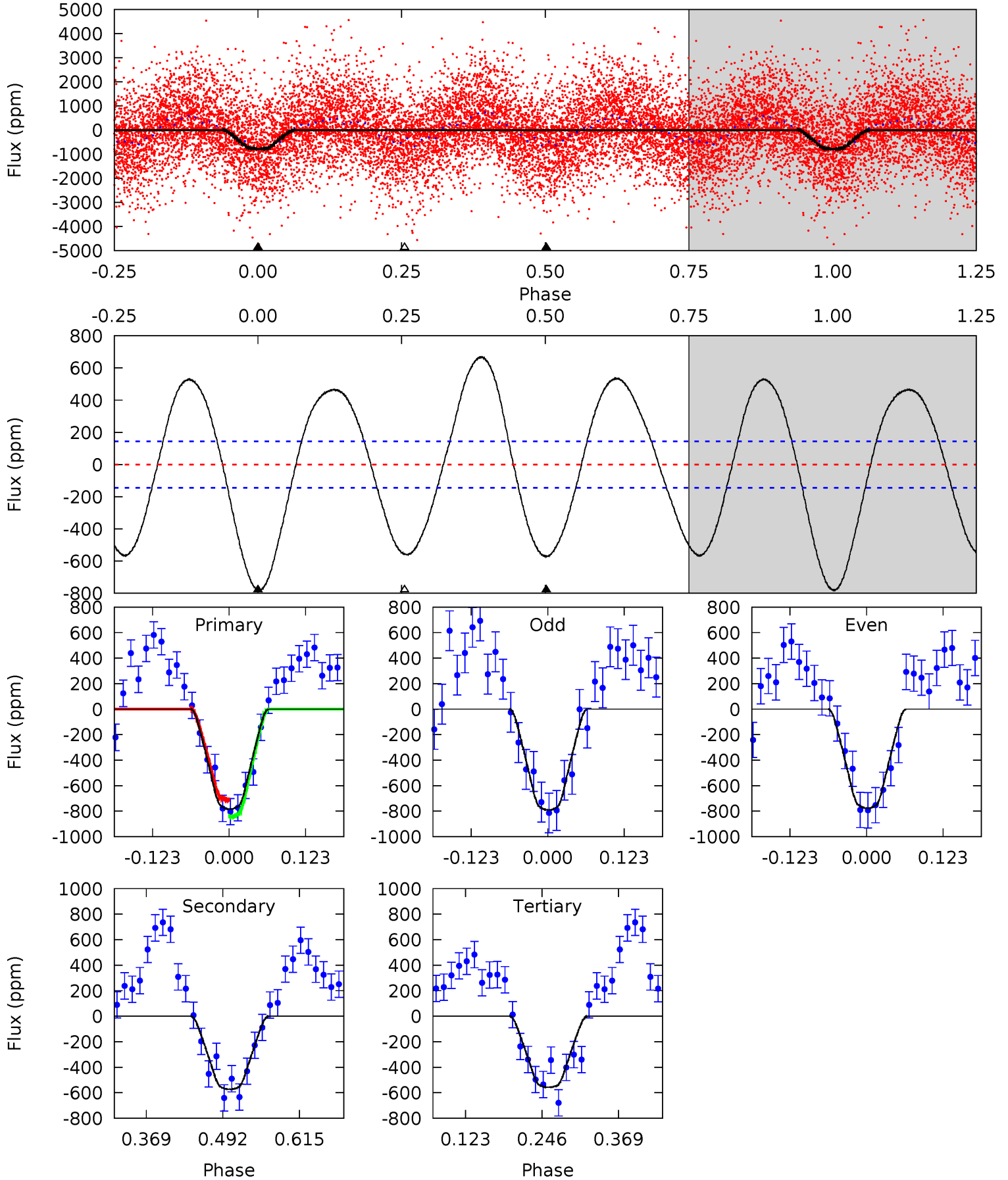
TCE 007547306-02 P= 0.531578 Days $T_0=131.910006$ (BKJD)



DV Model-Shift Uniqueness Test

007547306-02, P = 0.531579 Days, E = 131.911043 Days

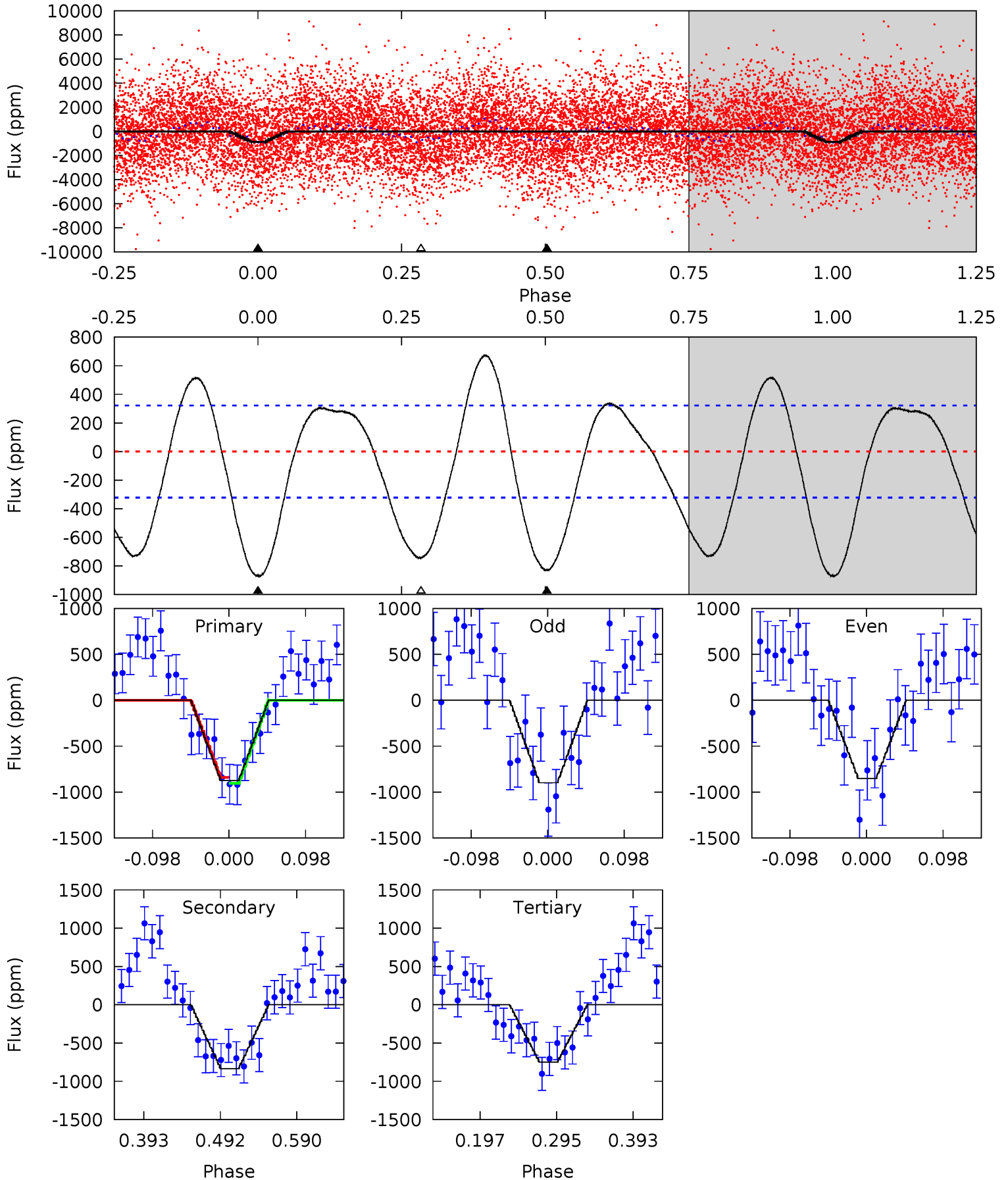
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.5	17.9	17.5	0	4.52	1.54	12.0	7.05	24.5	0.47	17.9	0.22	1.06	0.46	2.05



Alt Model-Shift Uniqueness Test

007547306-02, P = 0.531578 Days, E = 131.910006 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.4	11.8	10.6	0	4.57	1.65	5.98	1.80	12.4	1.22	11.8	0.33	1.00	0.44	0.46



Stellar Parameters For KIC 007547306

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7392^{+203}_{-330}	$3.543^{+0.580}_{-0.061}$	$-0.100^{+0.250}_{-0.300}$	$4.007^{+0.395}_{-2.236}$	$2.047^{+0.146}_{-0.585}$	$0.045^{+0.304}_{-0.009}$
	+3%/-4%	+16%/-2%	+250%/-300%	+10%/-56%	+7%/-29%	+679%/-20%
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 007547306-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-573 ± 32	$10.90^{+4.70}_{-3.83}$	6851^{+461}_{-930}	5674^{+1713}_{-1824}	$0.692^{+0.855}_{-0.346}$
Alt.	-834 ± 70	$11.35^{+4.66}_{-3.94}$	6801^{+487}_{-988}	6371^{+1766}_{-1372}	$0.936^{+1.086}_{-0.450}$

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 $A_{obs} \gg 1.0$

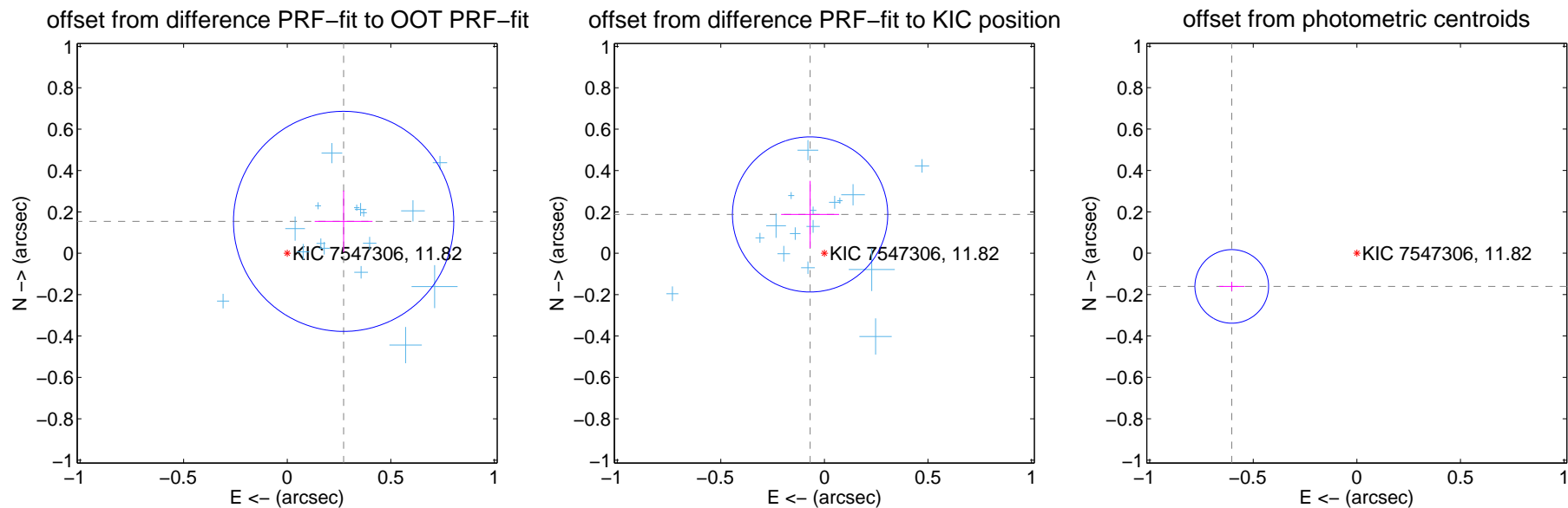
DV Centroid Data

Supplemental centroid analysis for 007547306-02. **Kepler magnitude: 11.82.** Transit SNR 22.82

There are 16 quarters with good PRF difference image offsets

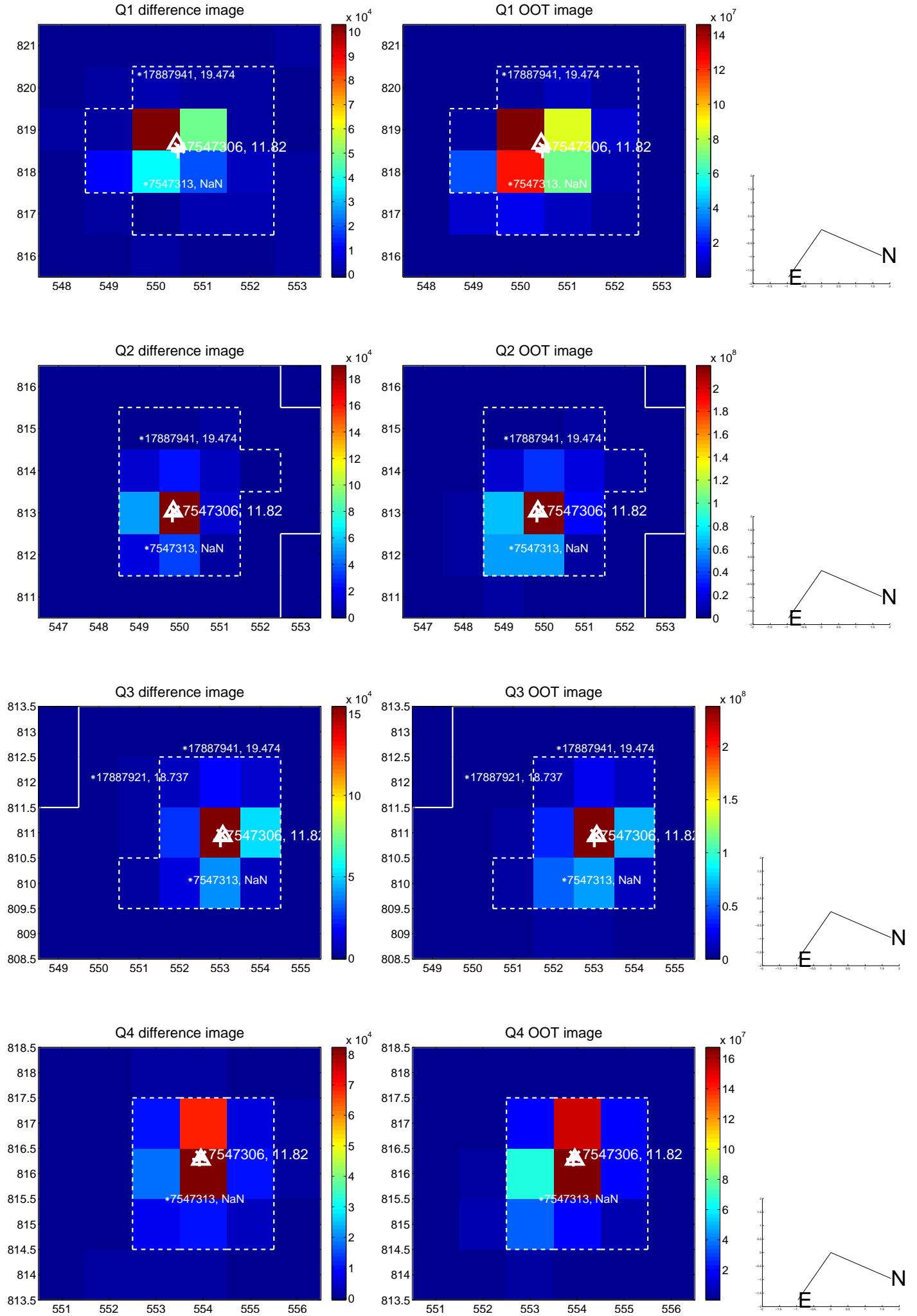
The direct PRF centroid is offset from the target star catalog position by about 0.33 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.313 ± 0.177	1.77	-0.272 ± 0.140	0.154 ± 0.149
PRF-fit source offset from KIC position	0.200 ± 0.125	1.60	0.069 ± 0.140	0.188 ± 0.162
photometric centroid source offset	0.62 ± 0.06	10.54	0.60 ± 0.06	-0.16 ± 0.02

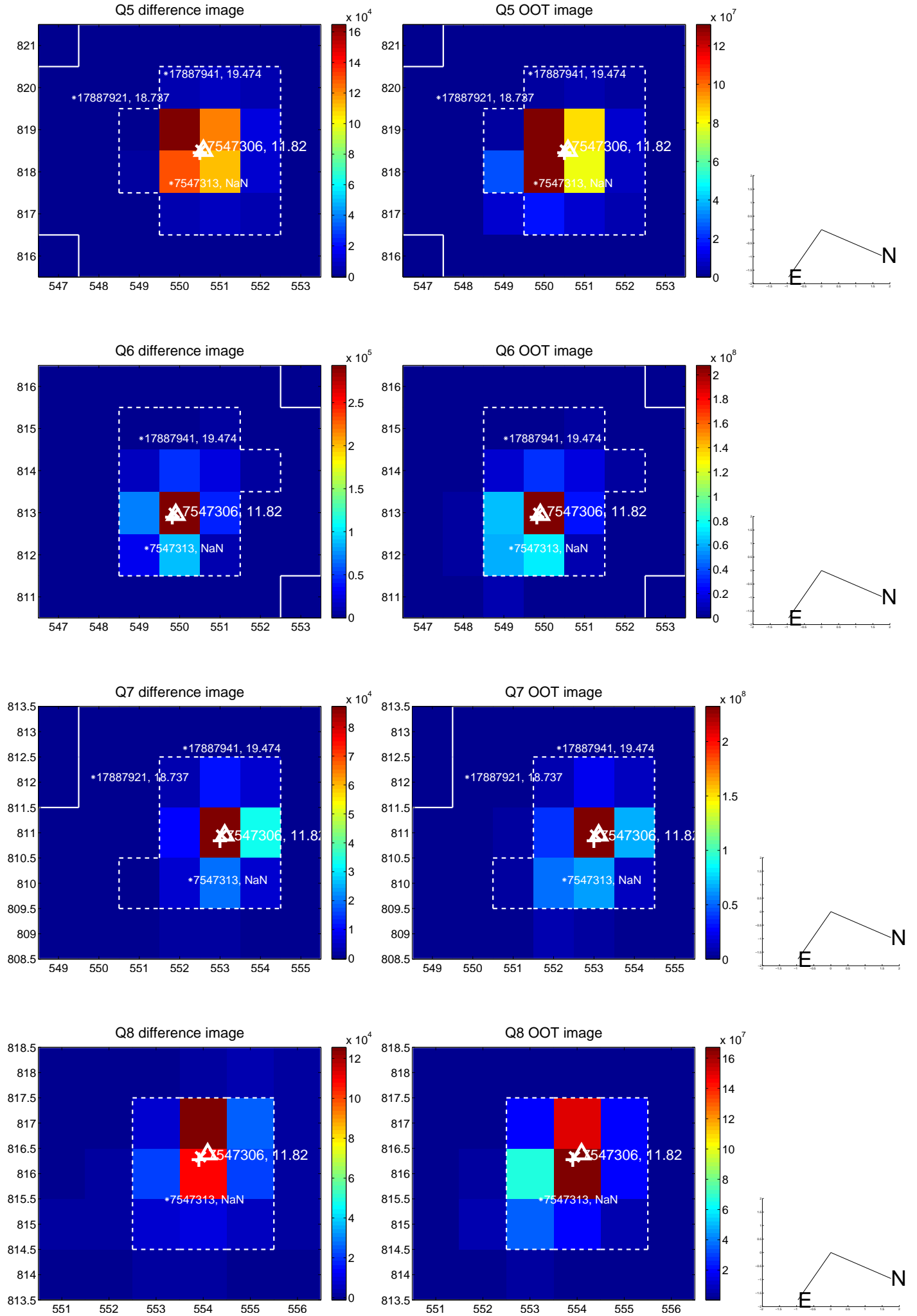


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

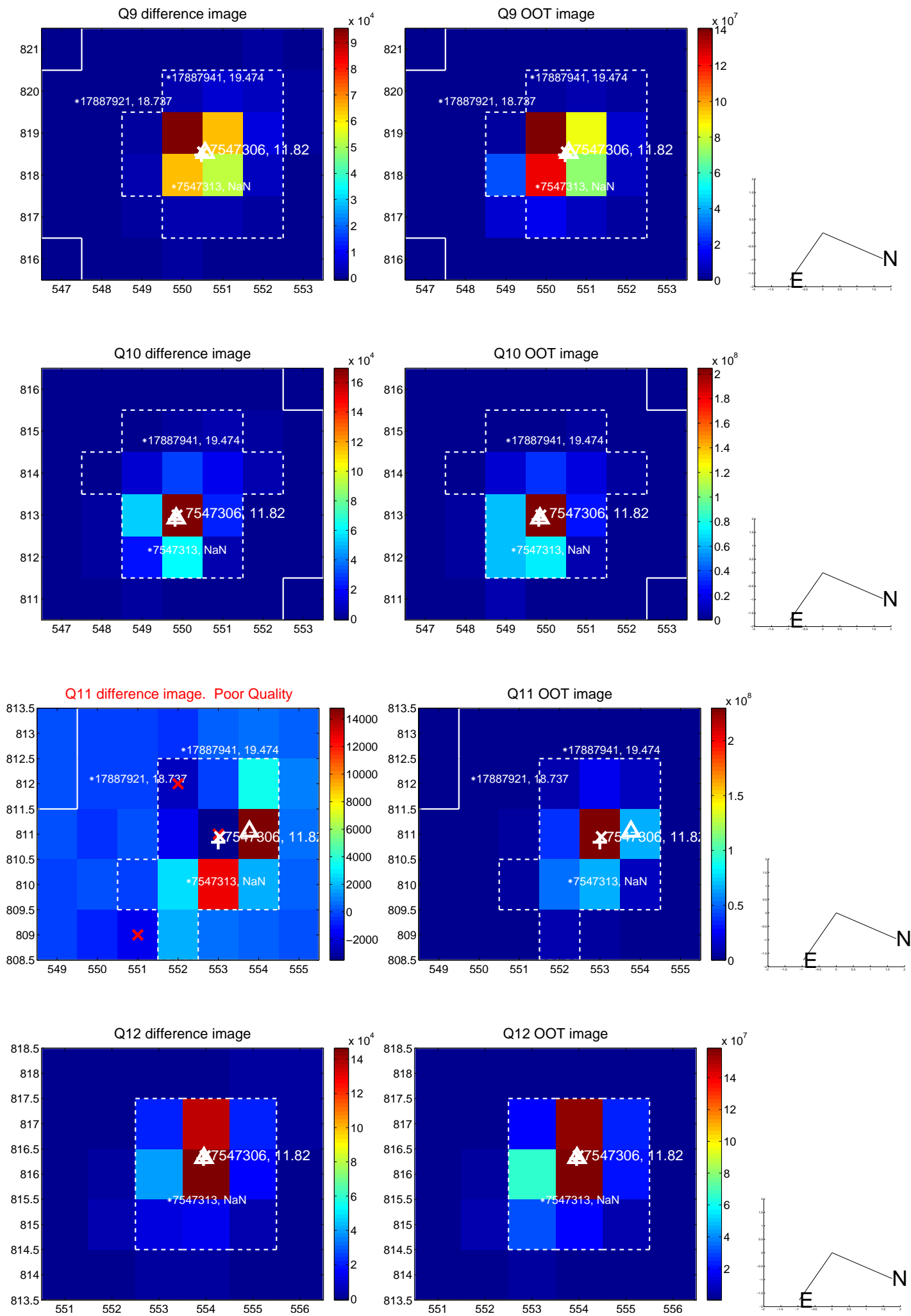
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



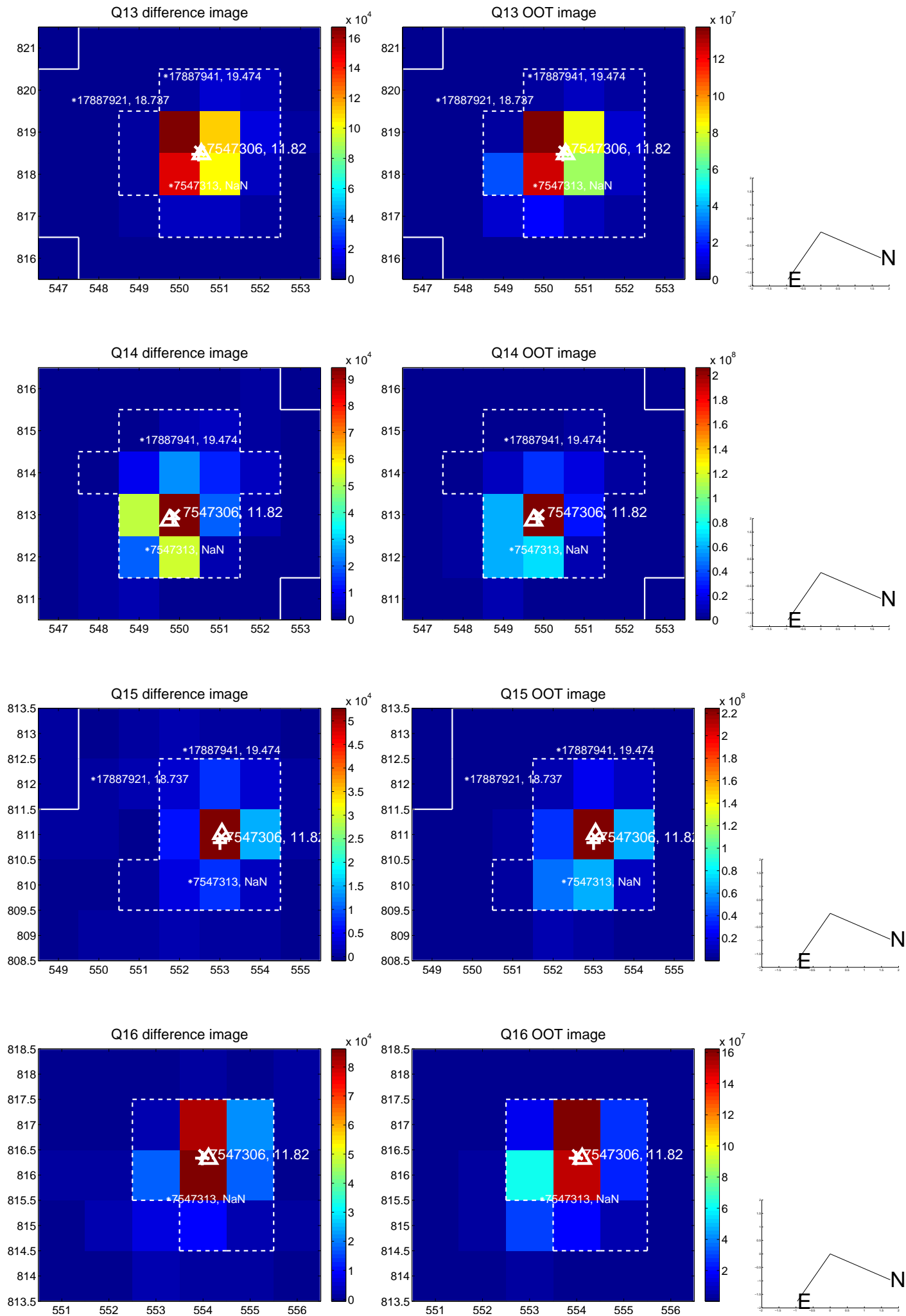
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



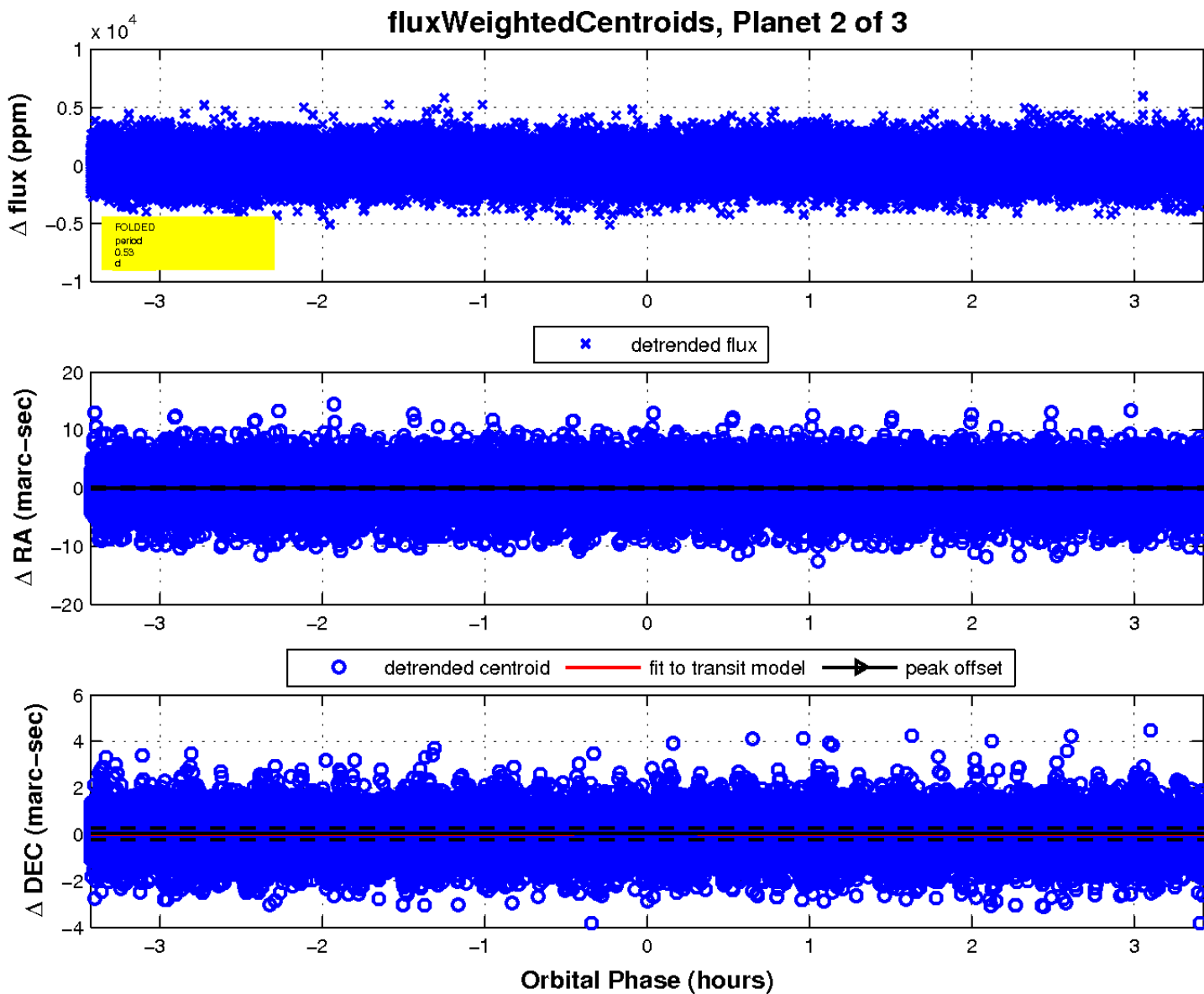
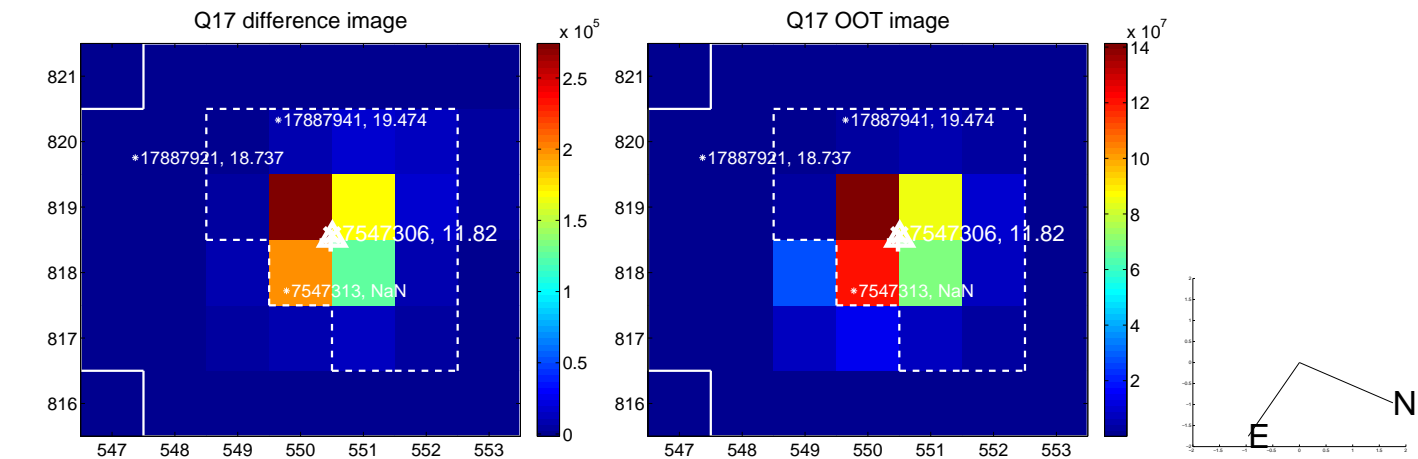
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

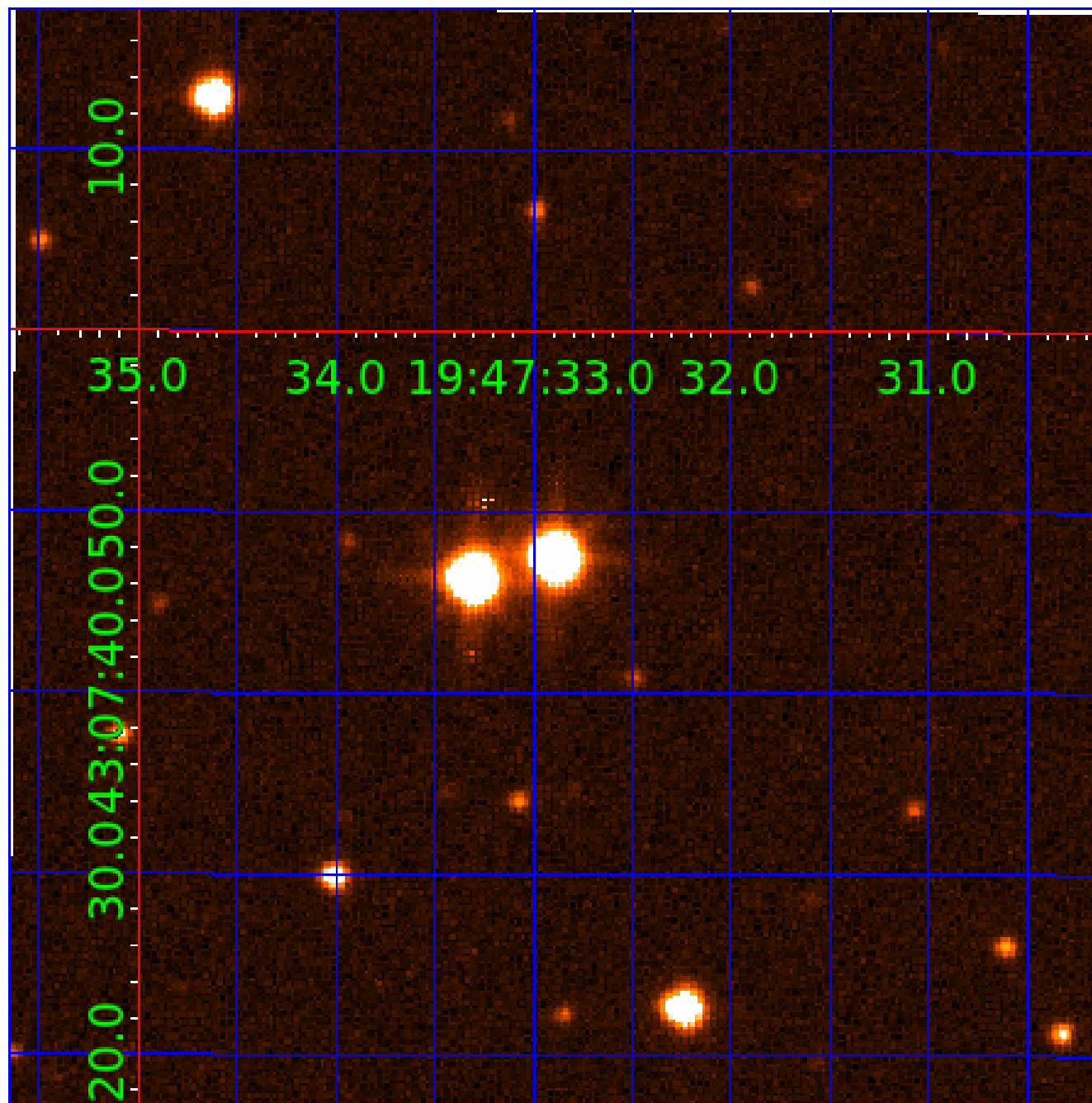


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007547306

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})
007547306-01	OBS	No	0.846760	131.801853	127.8	5.416	12.8	15.2	4.01	7392	5.26	86857.62
007547306-02	OBS	No	0.531579	131.911043	755.3	1.143	16.1	22.8	4.01	7392	12.90	0.00
007547306-03	OBS	No	0.531576	131.649334	590.6	1.046	14.2	18.4	4.01	7392	10.01	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007547306-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_KIC_POS
007547306-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007547306-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_KIC_POS

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

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

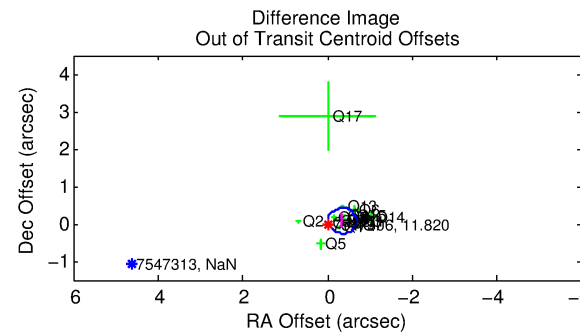
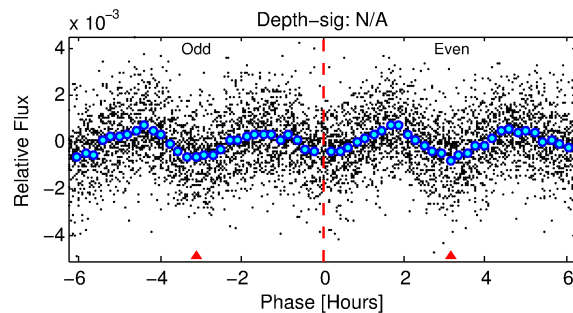
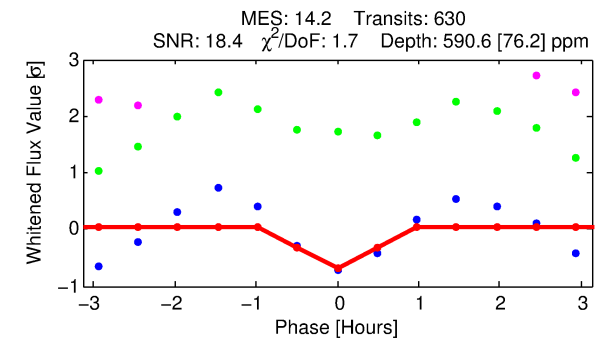
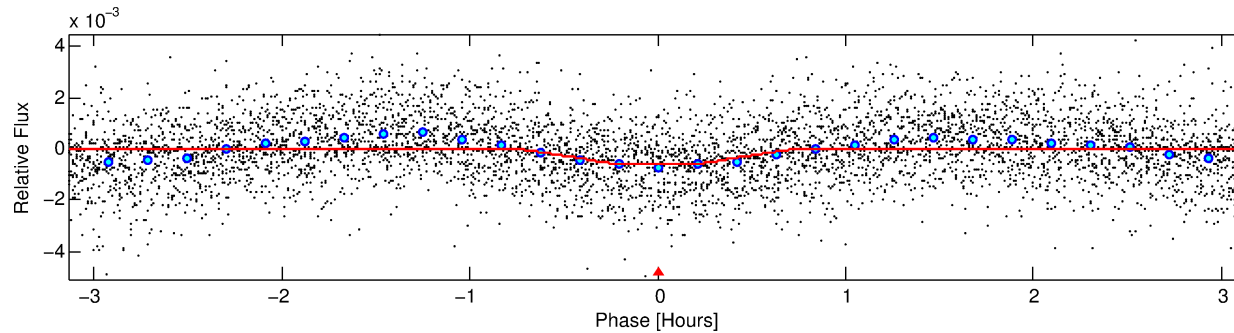
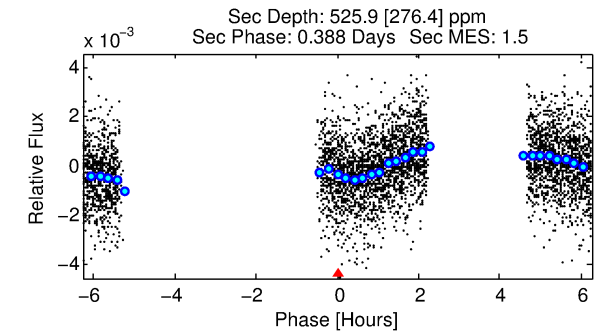
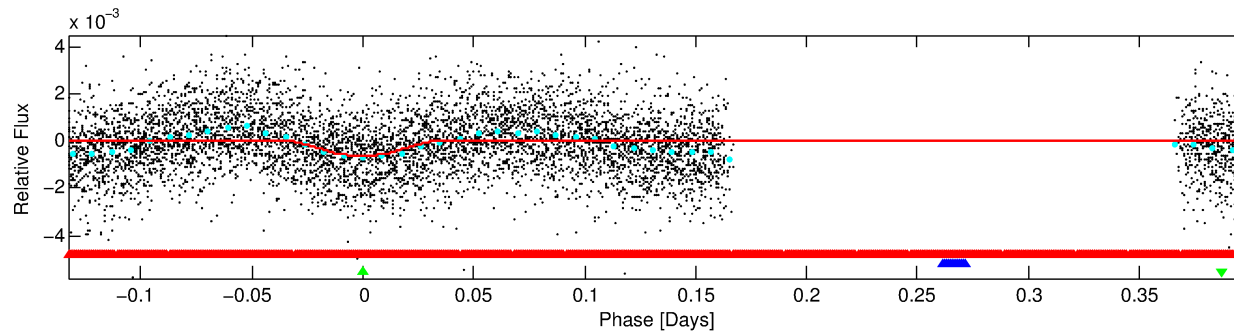
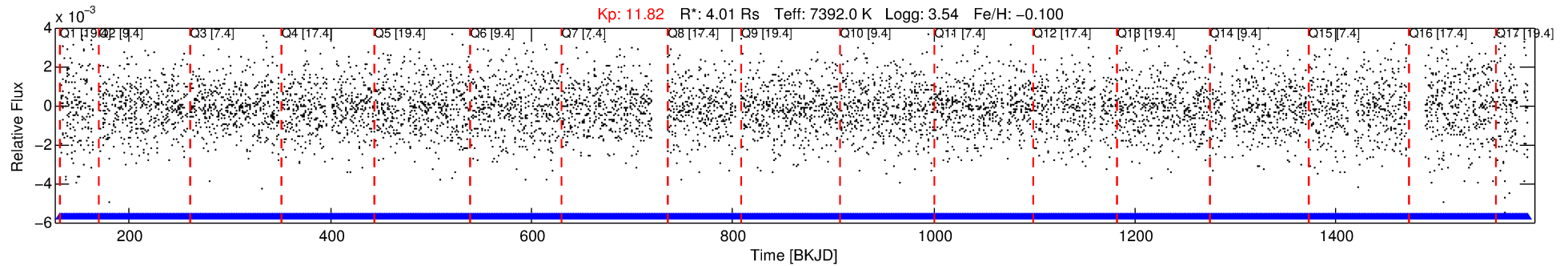
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007547306-03

No Significant Match Found

DV One-Page Summary

KIC: 7547306 Candidate: 3 of 3 Period: 0.532 d



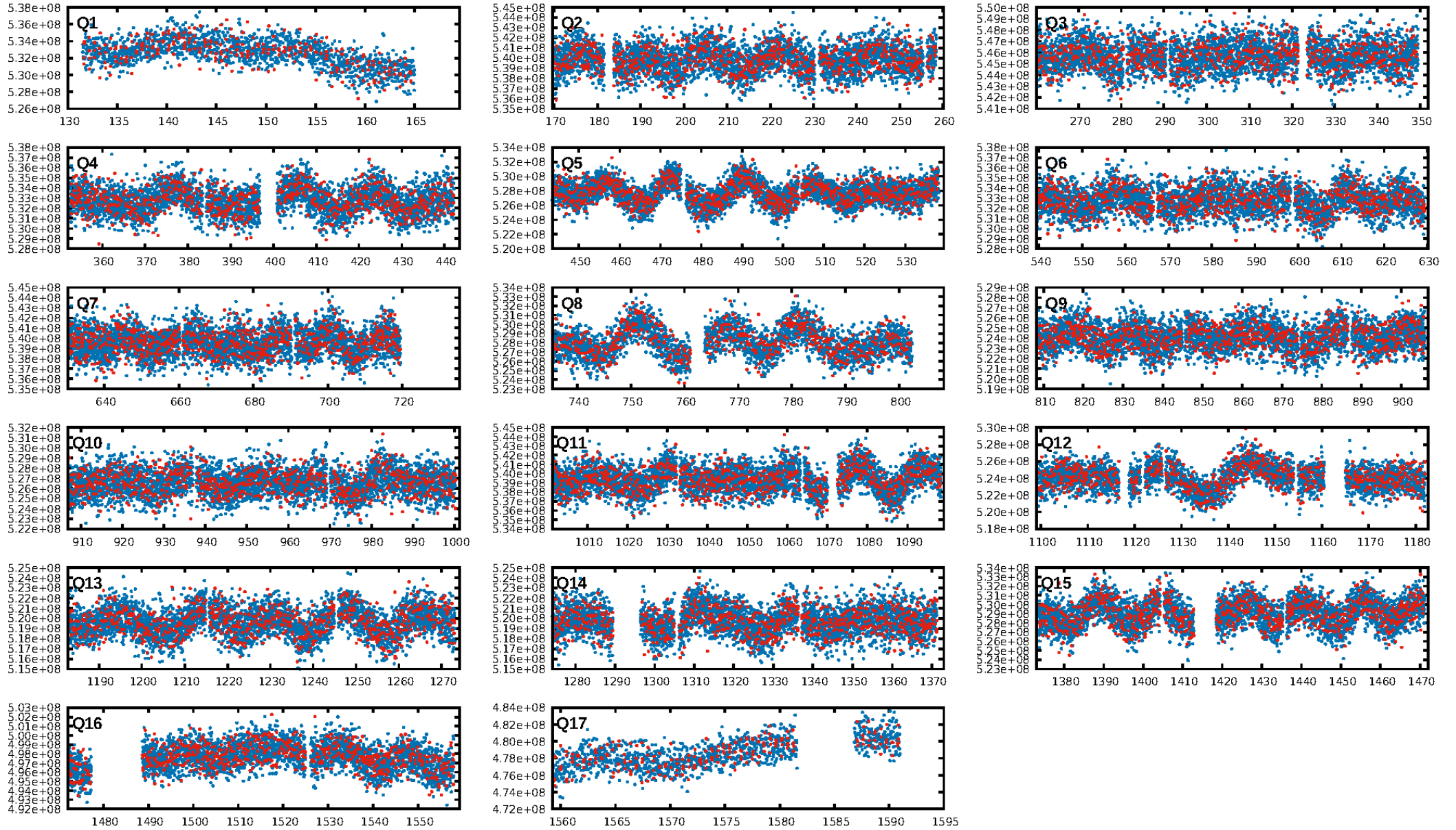
DV Fit Results:

Period = 0.53158 [0.00001] d
Epoch = 131.6493 [0.0015] BKJD
Rp/R* = 0.0229 [0.0130]
a/R* = 3.83 [11.50]
b = 0.32 [9.20]
Seff = N/A
Teq = N/A
Rp = 10.01 [7.98] Re
a = N/A
Ag = N/A
Teff = N/A

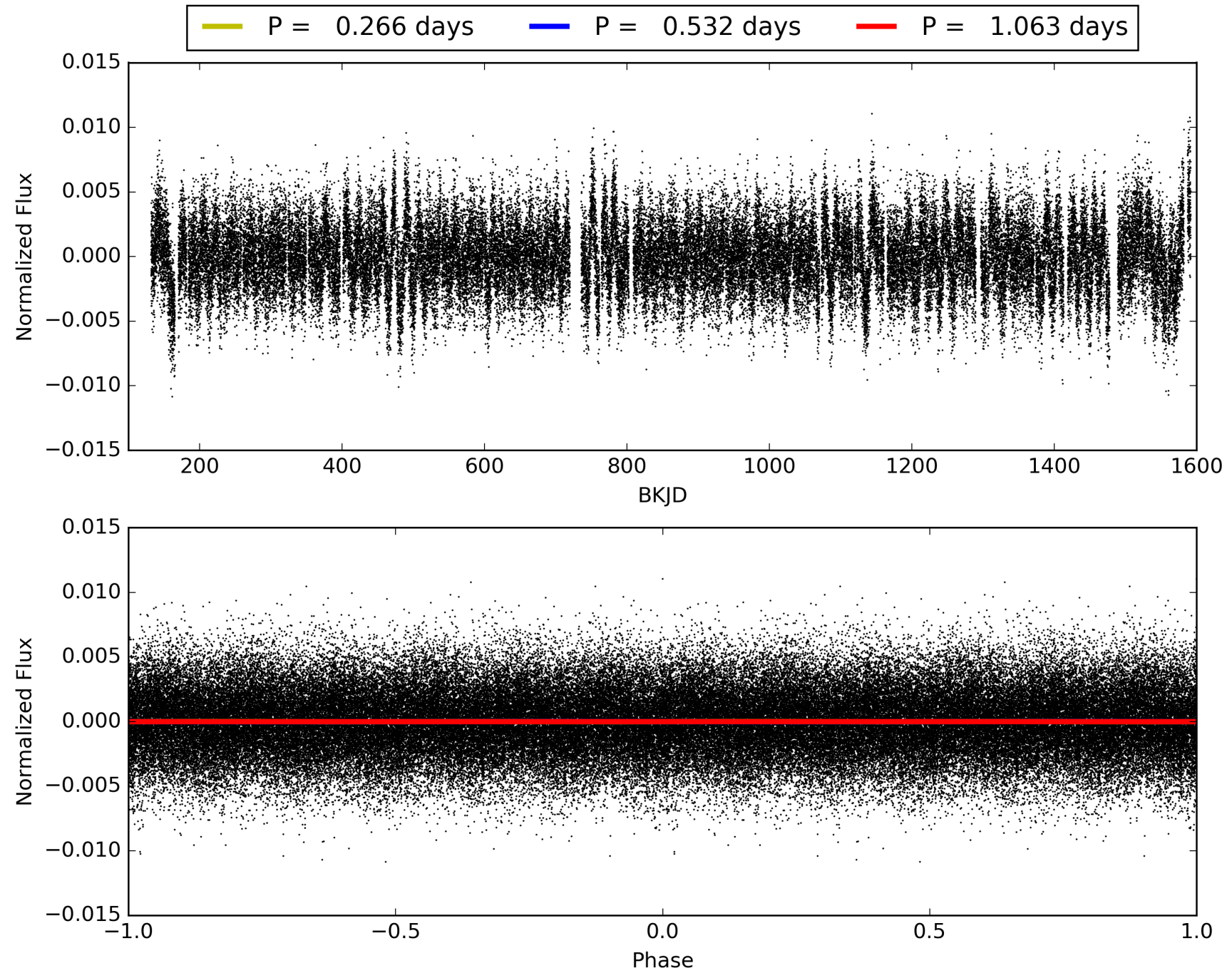
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [601/601]
GhostDiagnostic-chr: -15.39
Centroid-sig: 68.3%
Centroid-so: 0.665 arcsec [8.77σ]
OotOffset-rm: 0.352 arcsec [3.12σ]
KicOffset-rm: 0.144 arcsec [0.83σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.94 [16/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 007547306-03, PDC Light Curves

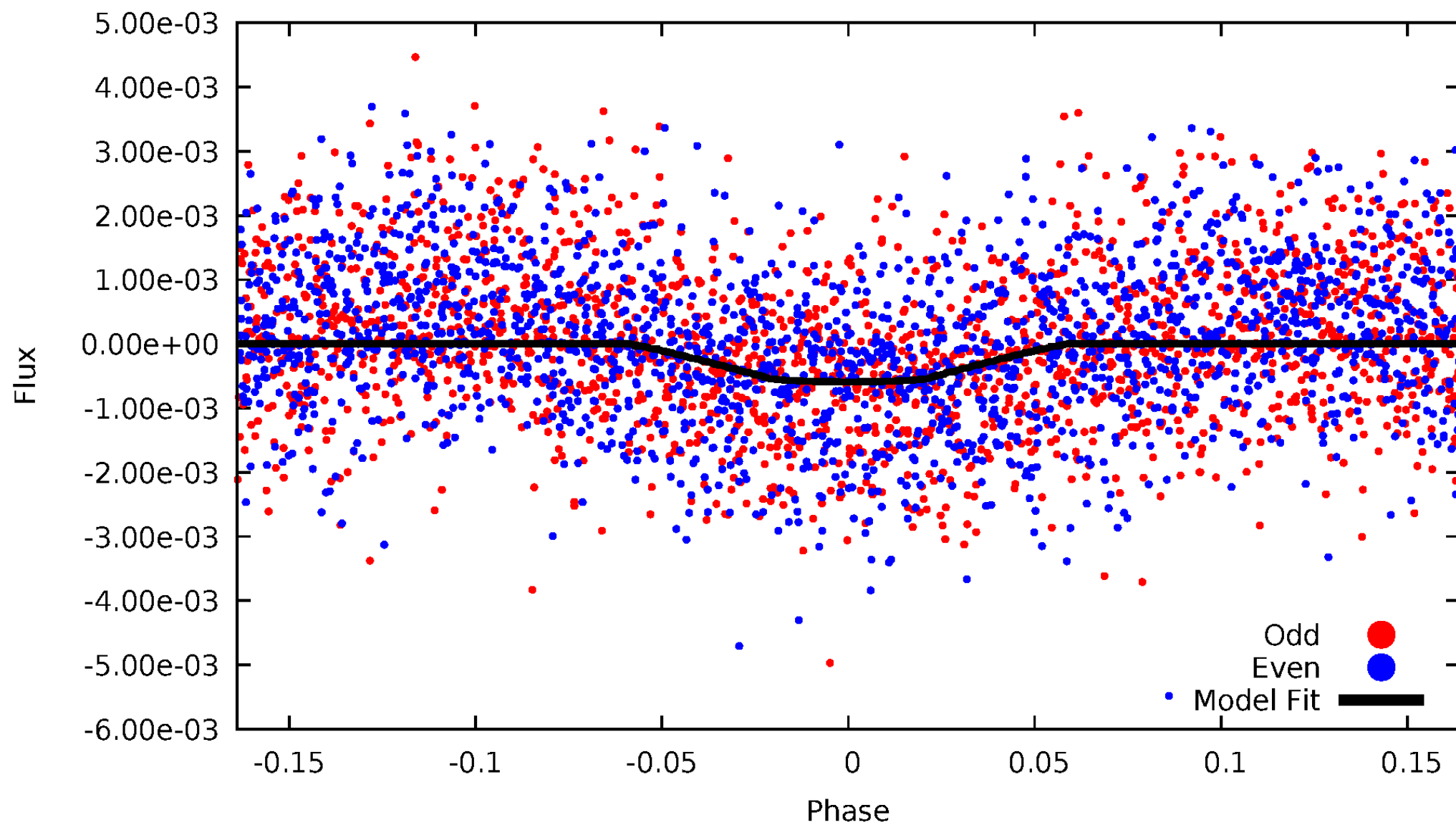


TCE 007547306-03



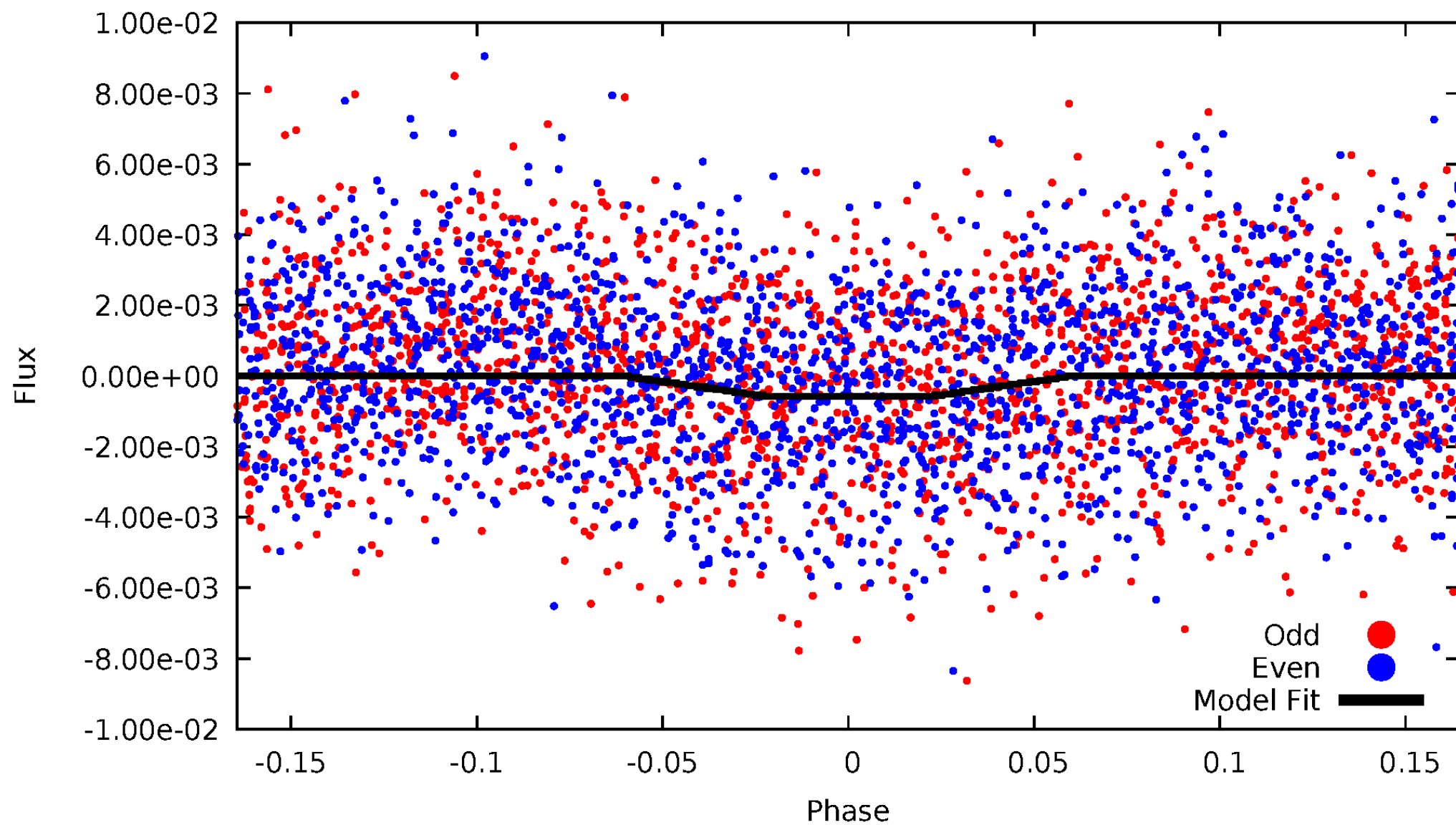
DV Odd/Even

TCE 007547306-03



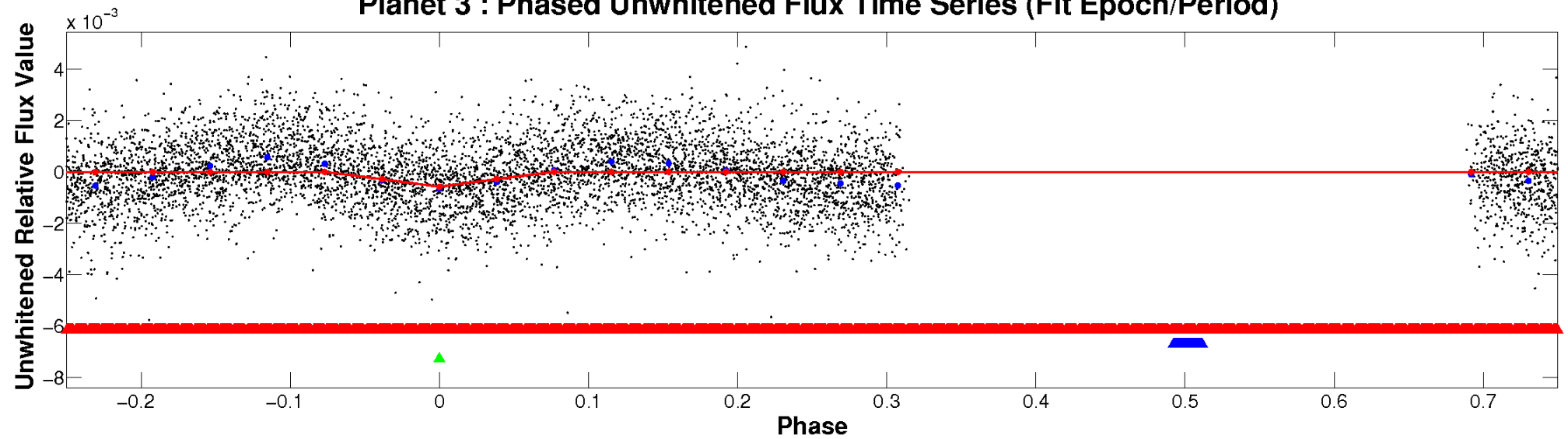
ALT Odd/Even

TCE 007547306-03

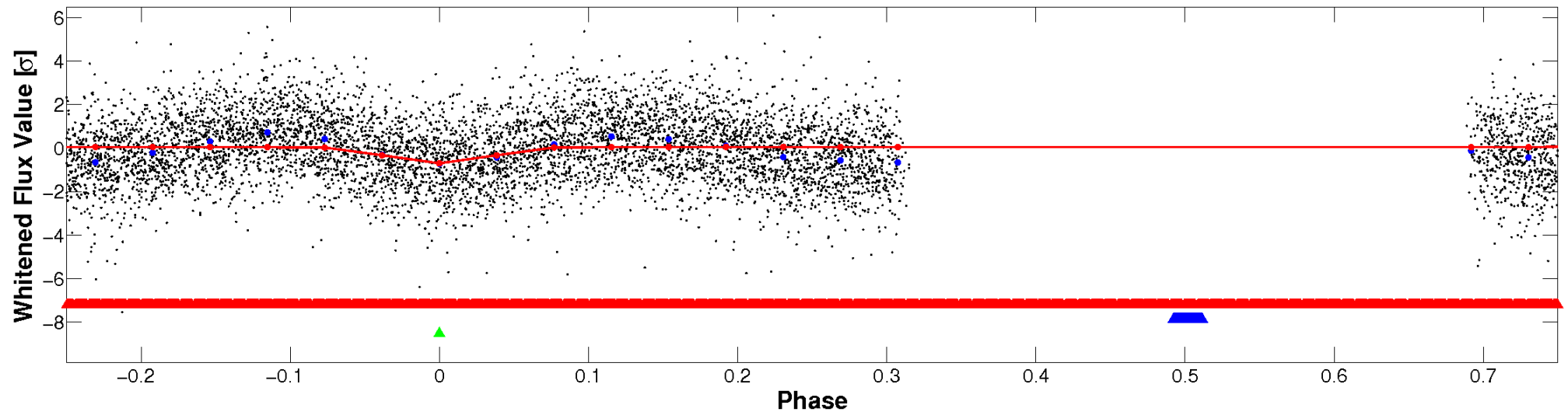


Non-Whitened Vs. Whitened Light Curve

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

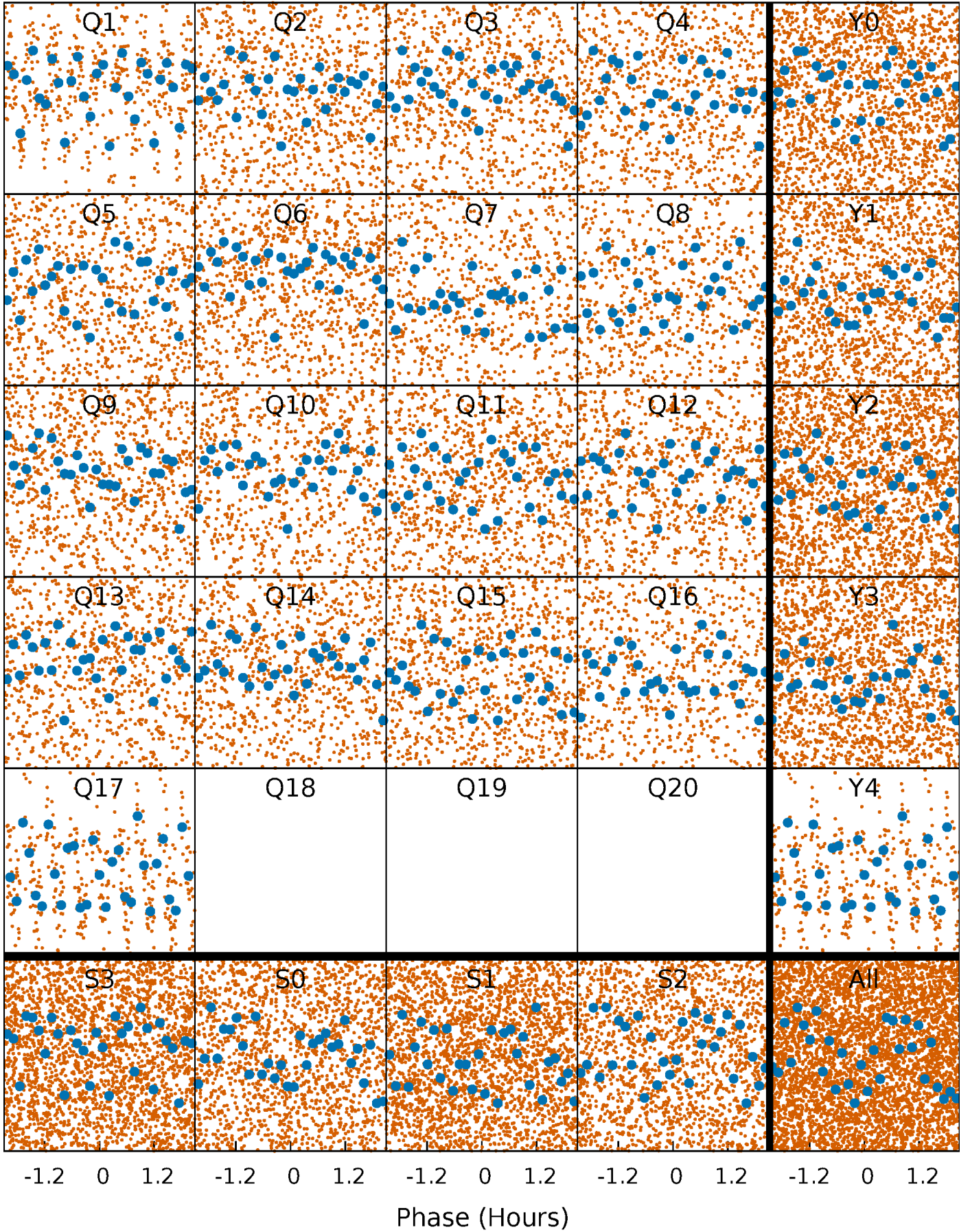


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



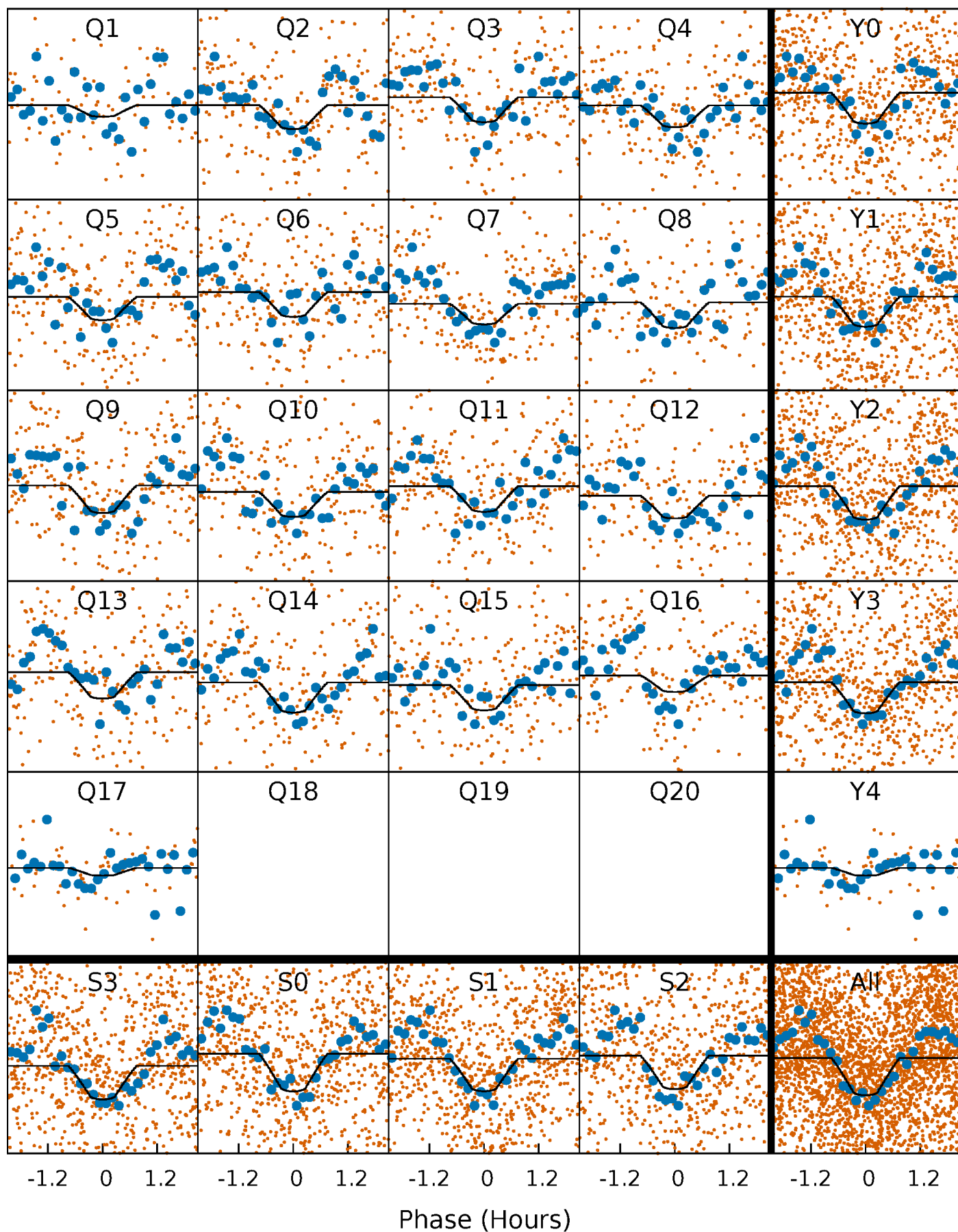
PDC Quarter-Phased Transit Curves

TCE 007547306-03 P= 0.531576 Days $T_0=131.649334$ (BKJD)



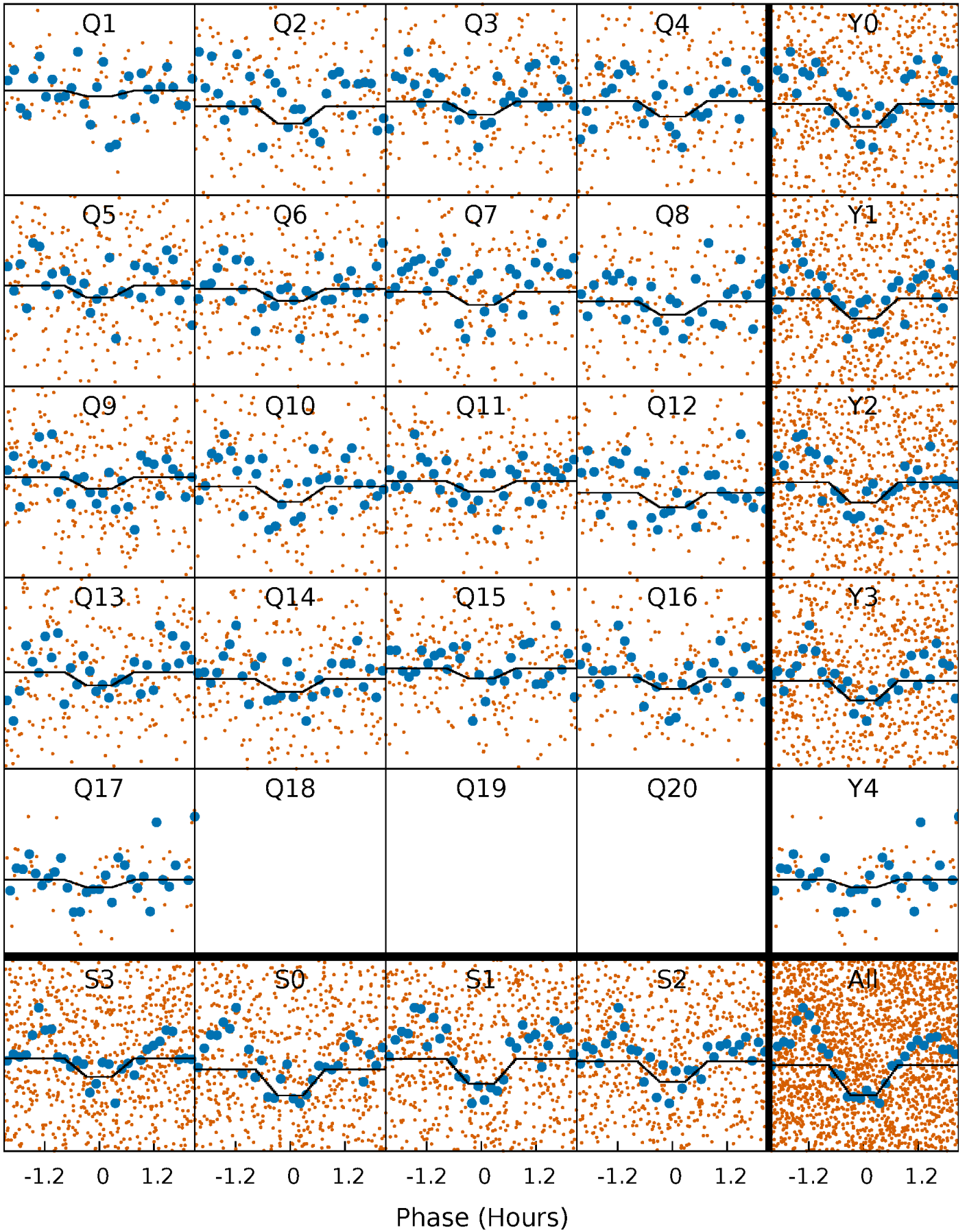
DV Quarter-Phased Transit Curves

TCE 007547306-03 P= 0.531576 Days $T_0=131.649334$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

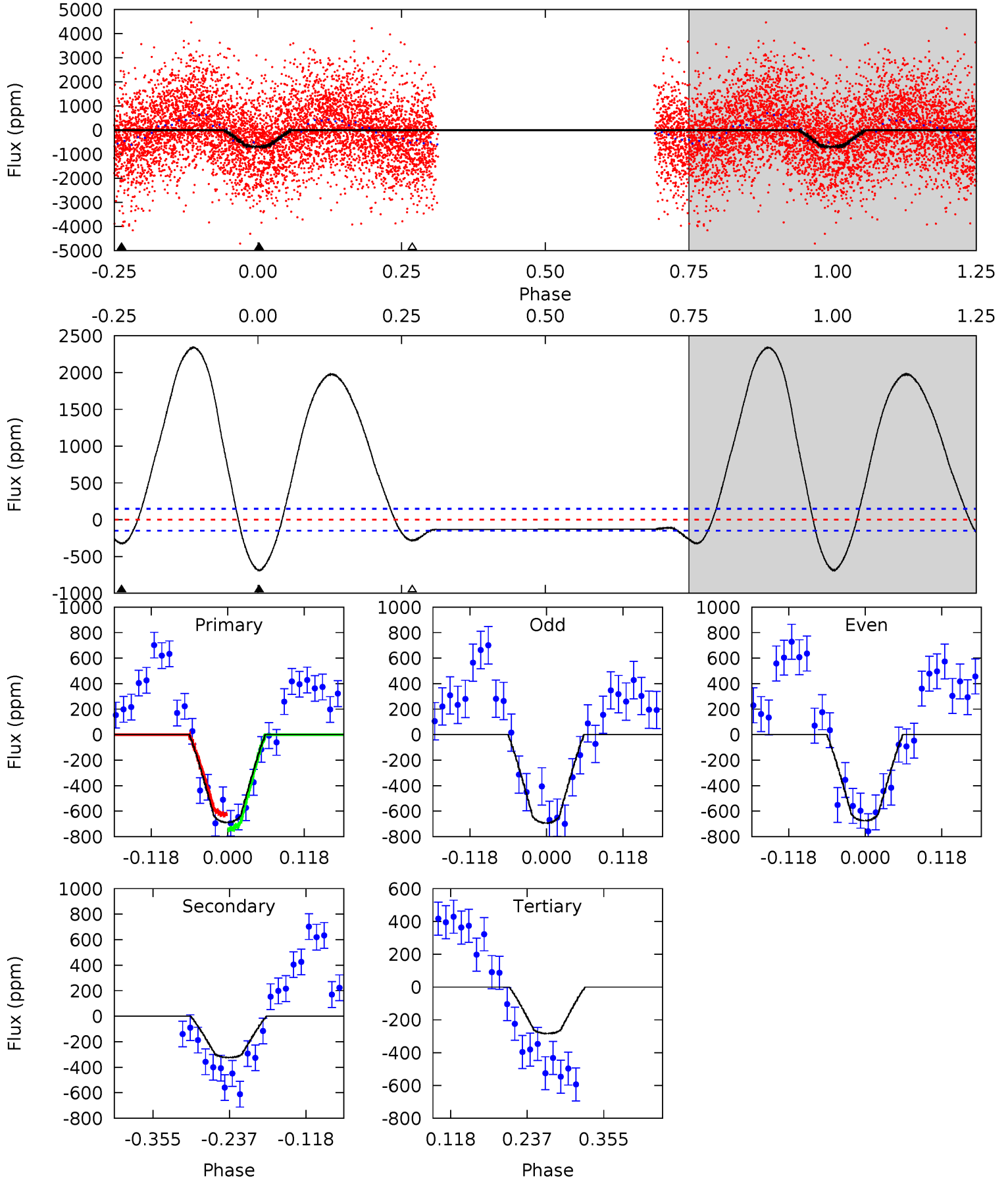
TCE 007547306-03 P= 0.531578 Days $T_0=131.643845$ (BKJD)



DV Model-Shift Uniqueness Test

007547306-03, P = 0.531576 Days, E = 131.649334 Days

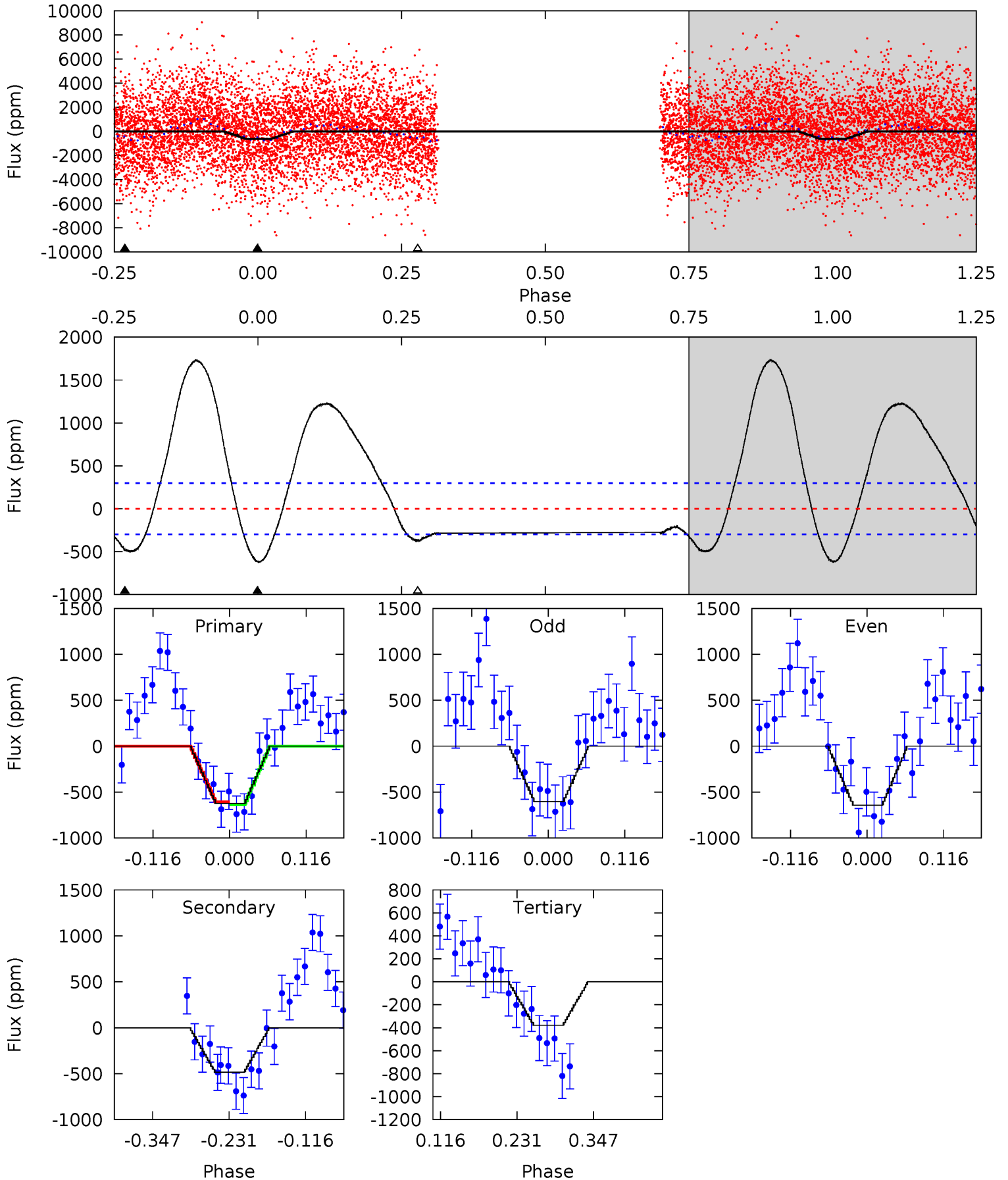
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.0	9.86	8.64	0	4.53	1.56	25.8	12.4	21.0	1.22	9.86	0.29	1.08	0.77	1.80



Alt Model-Shift Uniqueness Test

007547306-03, P = 0.531578 Days, E = 131.643845 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.45	7.34	5.76	0	4.53	1.57	8.66	3.70	9.45	1.58	7.34	0.30	1.17	0.74	0.22



Stellar Parameters For KIC 007547306

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7392^{+203}_{-330}	$3.543^{+0.580}_{-0.061}$	$-0.100^{+0.250}_{-0.300}$	$4.007^{+0.395}_{-2.236}$	$2.047^{+0.146}_{-0.585}$	$0.045^{+0.304}_{-0.009}$
	+3%/-4%	+16%/-2%	+250%/-300%	+10%/-56%	+7%/-29%	+679%/-20%
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 007547306-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-323 ± 33	$8.56^{+5.91}_{-4.67}$	6842^{+474}_{-1031}	5355^{+4150}_{-9598}	$0.626^{+2.465}_{-0.404}$
Alt.	-484 ± 66	$9.29^{+5.84}_{-4.73}$	6833^{+493}_{-940}	5995^{+3576}_{-2909}	$0.810^{+2.509}_{-0.499}$

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 $A_{obs} \gg 1.0$

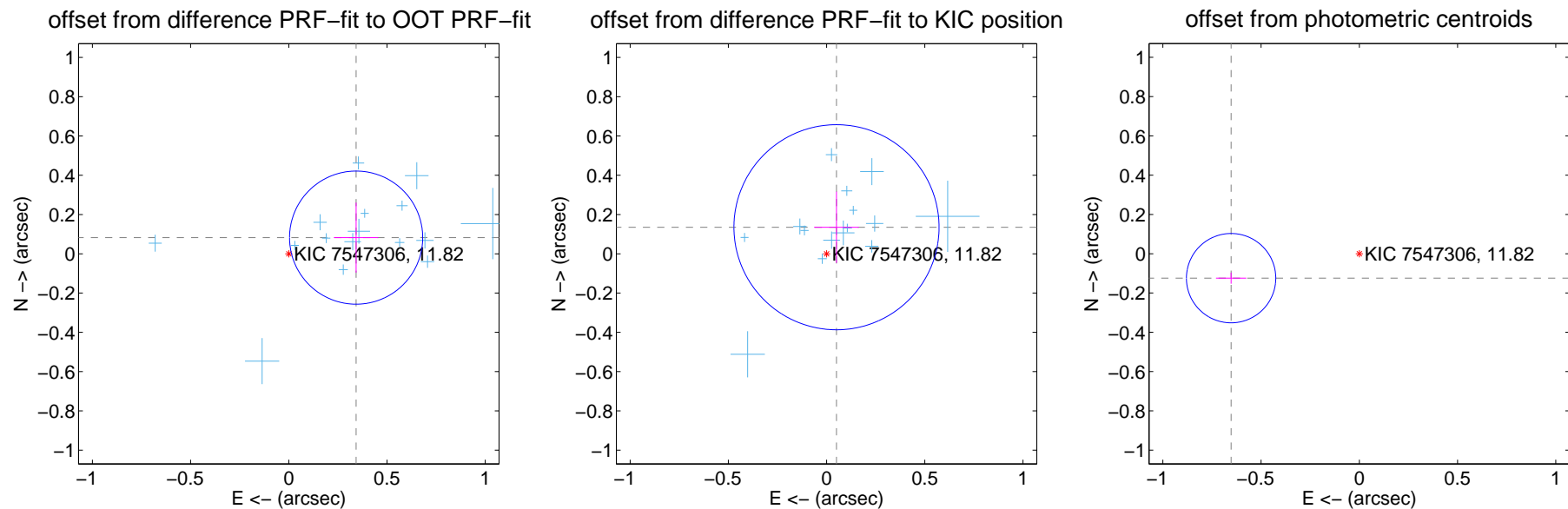
DV Centroid Data

Supplemental centroid analysis for 007547306-03. **Kepler magnitude: 11.82.** Transit SNR 18.37

There are 16 quarters with good PRF difference image offsets

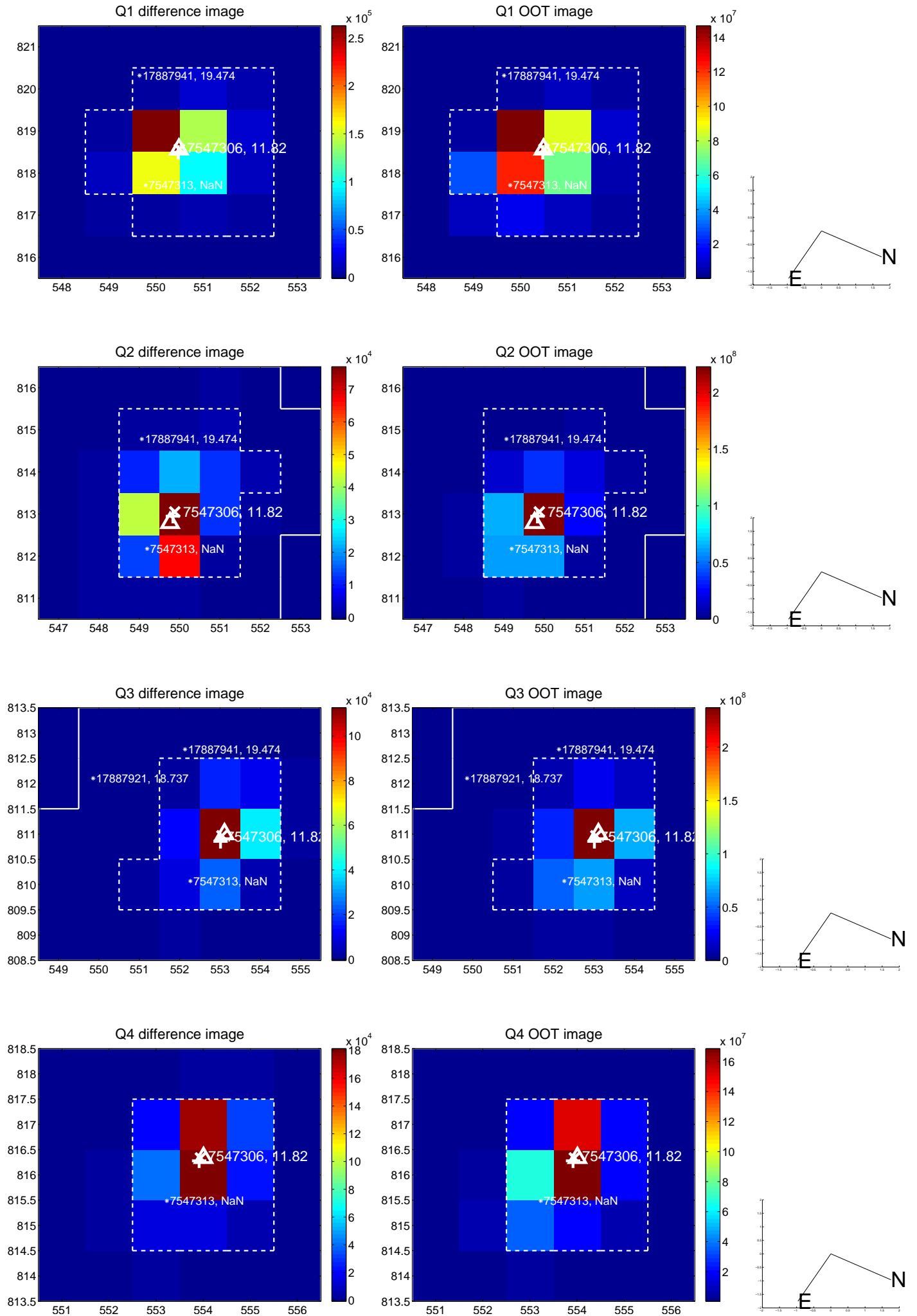
The direct PRF centroid is offset from the target star catalog position by about 0.32 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.352 ± 0.113	3.12	-0.343 ± 0.113	0.082 ± 0.178
PRF-fit source offset from KIC position	0.144 ± 0.174	0.83	-0.051 ± 0.114	0.135 ± 0.181
photometric centroid source offset	0.66 ± 0.08	8.77	0.65 ± 0.08	-0.12 ± 0.03

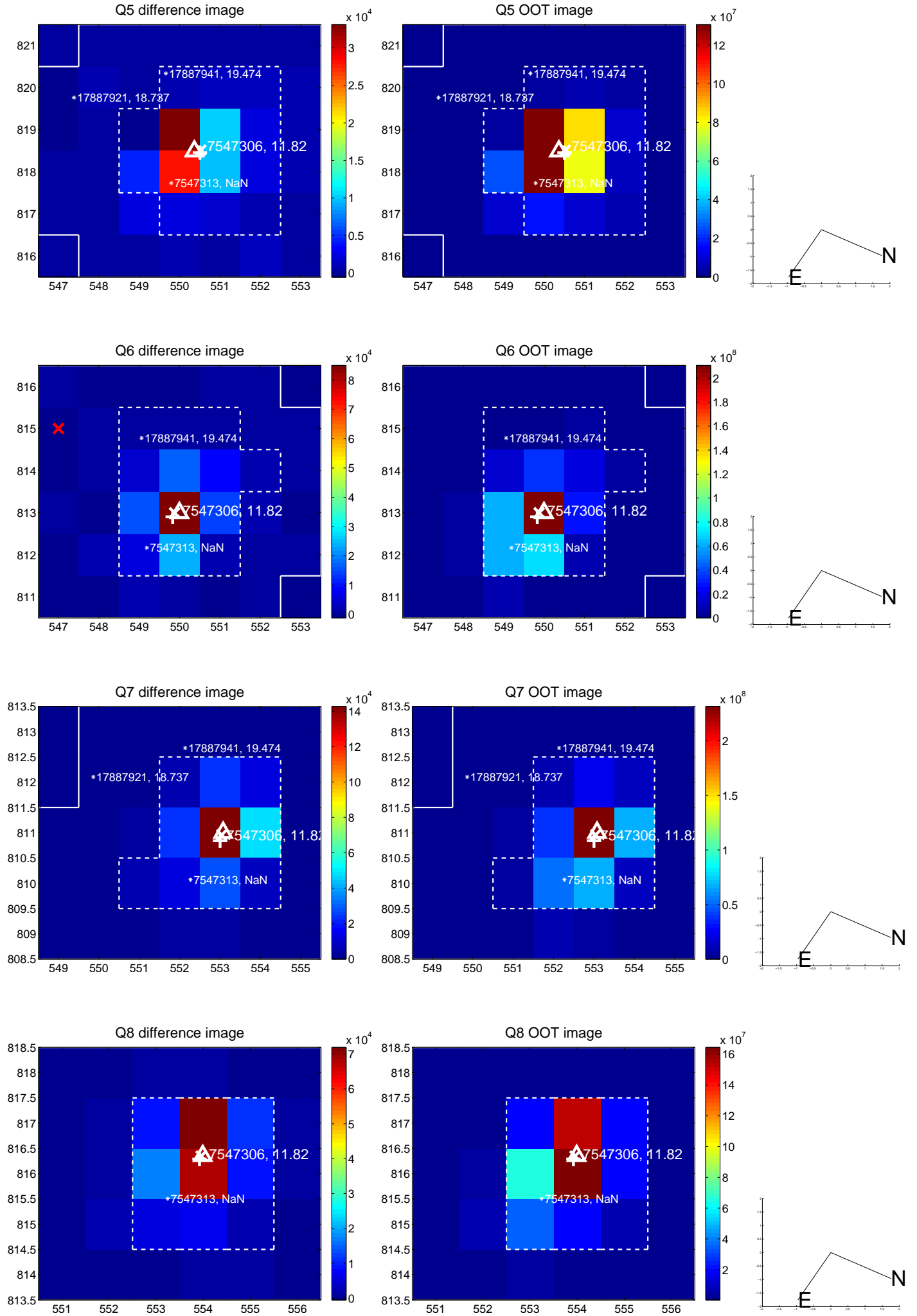


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

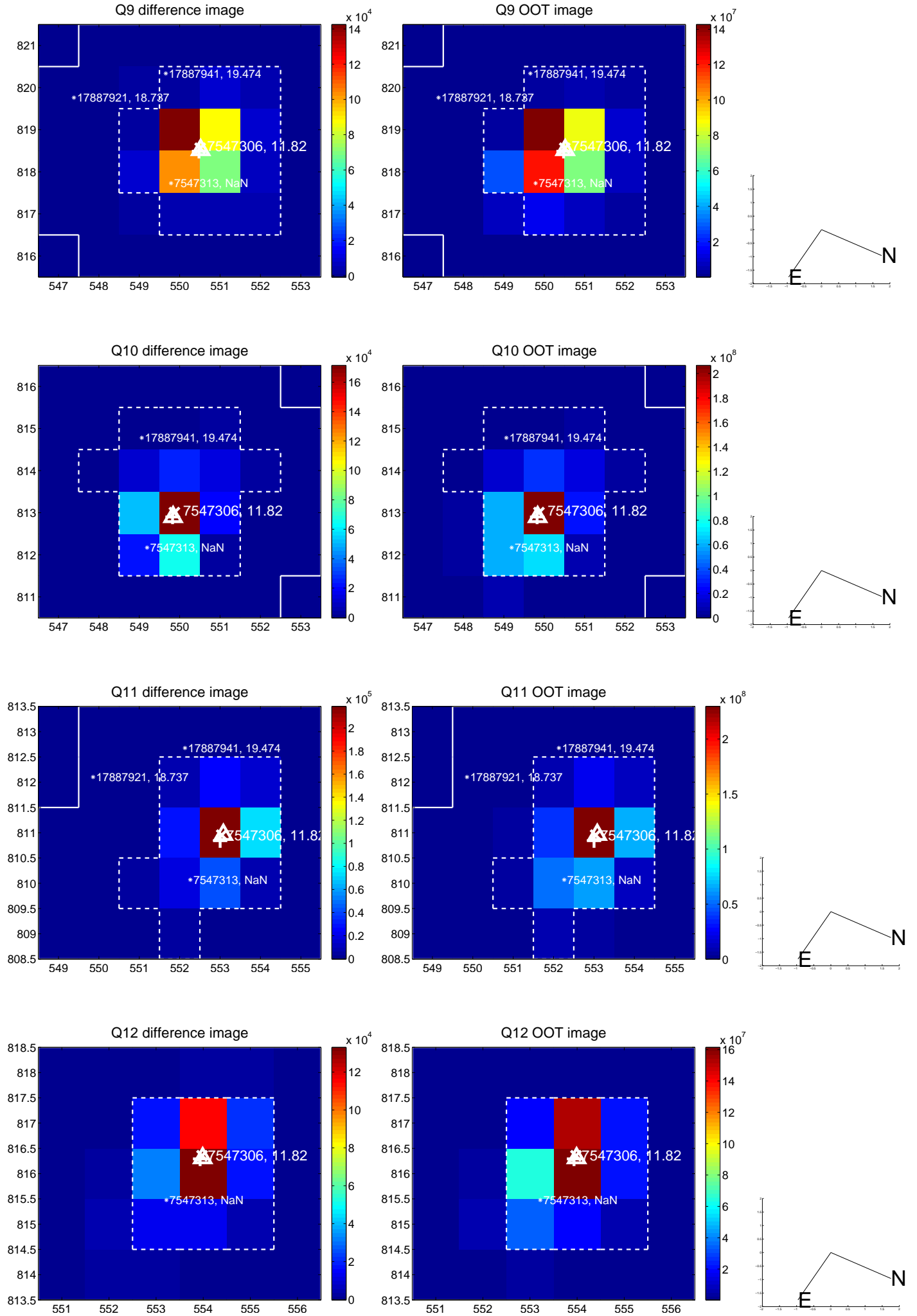
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



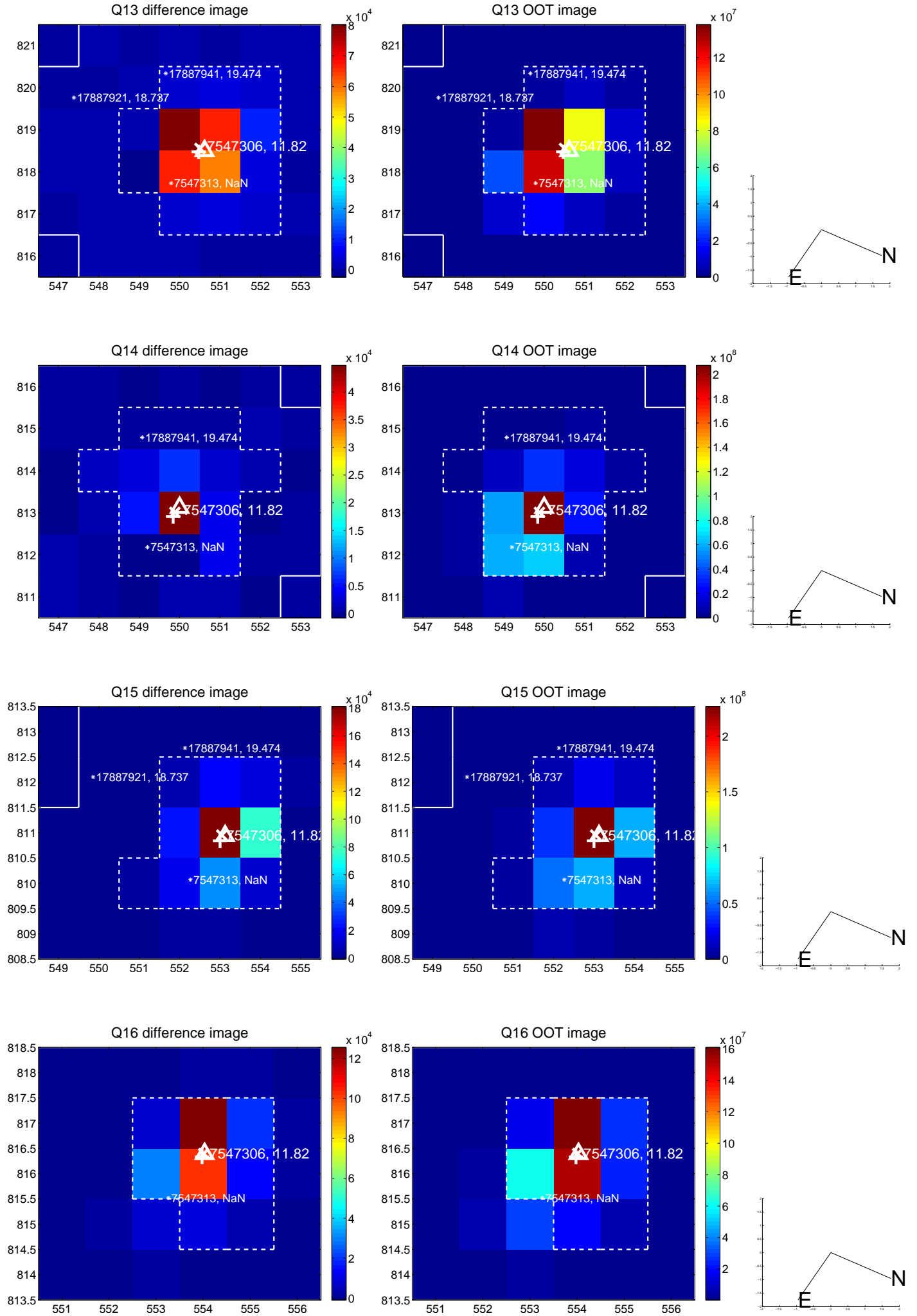
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



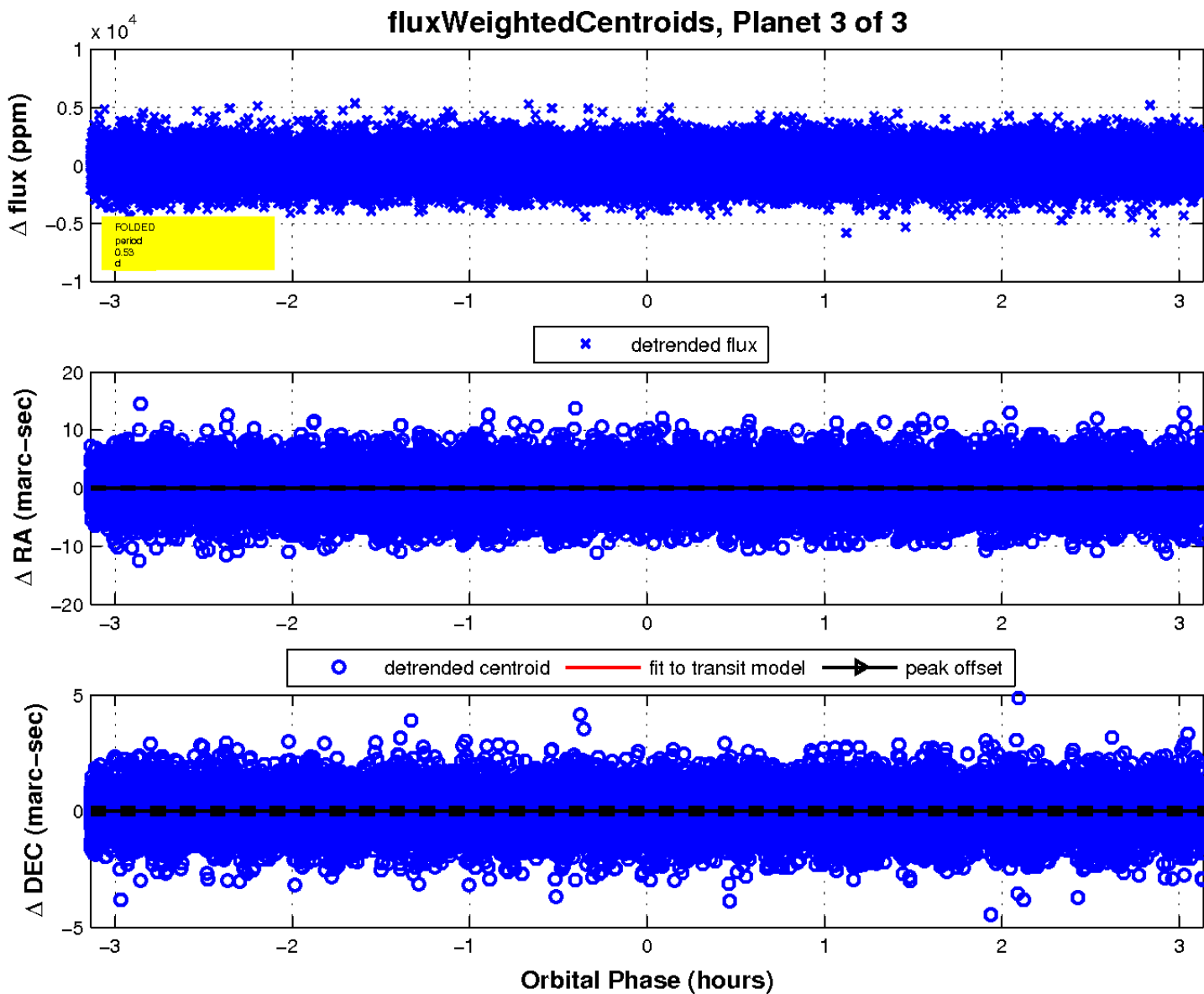
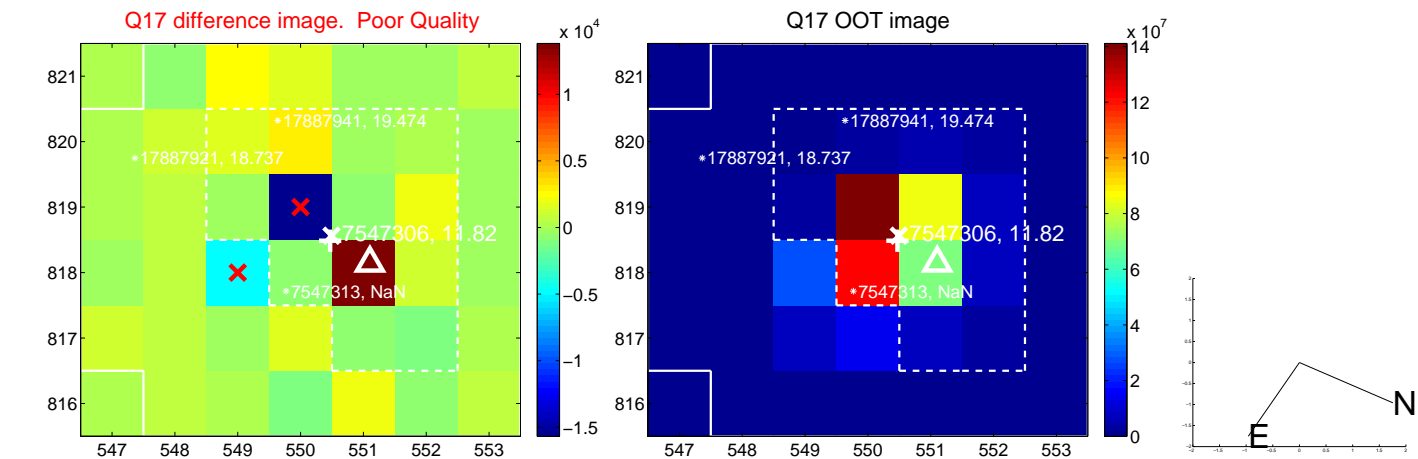
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

