

KIC 005185897

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})
005185897-01	OBS	2693.01	4.081399	133.861352	169.7	2.333	32.8	37.6	0.64	4498	1.00	76.99
005185897-02	OBS	2693.03	6.834402	136.860946	172.7	2.222	24.5	28.6	0.64	4498	0.90	38.72
005185897-03	OBS	2693.02	11.419444	142.115952	155.2	3.334	20.6	22.4	0.64	4498	0.97	19.53

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005185897-01	OBS	PC	1.00	0	0	0	0	CENT_KIC_POS
005185897-02	OBS	PC	0.99	0	0	0	0	CENT_KIC_POS
005185897-03	OBS	PC	0.99	0	0	0	0	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.

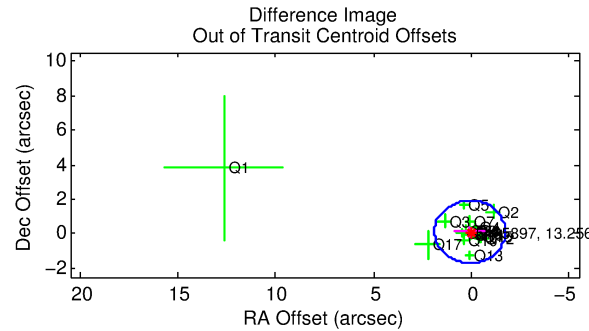
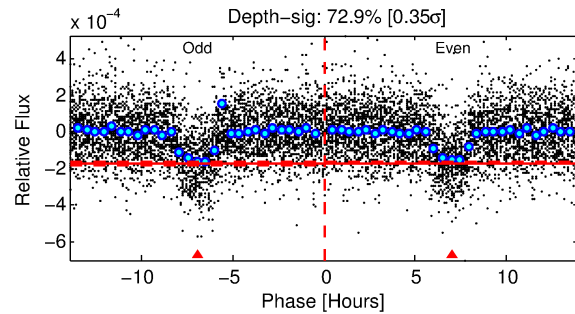
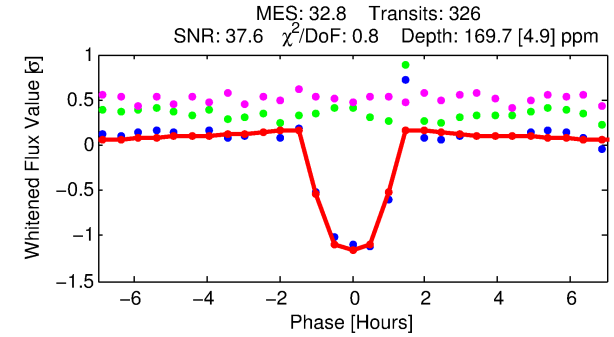
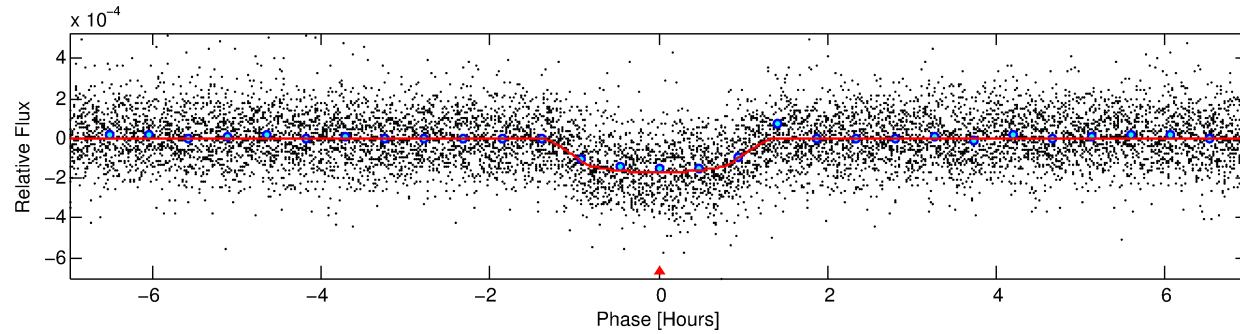
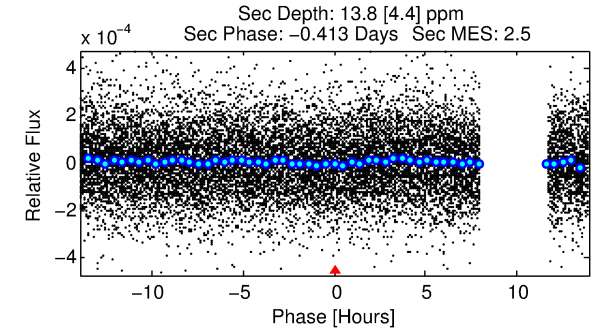
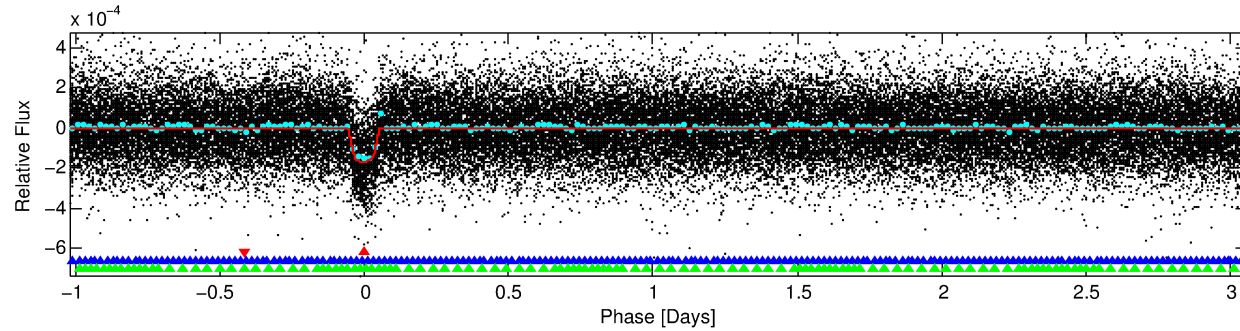
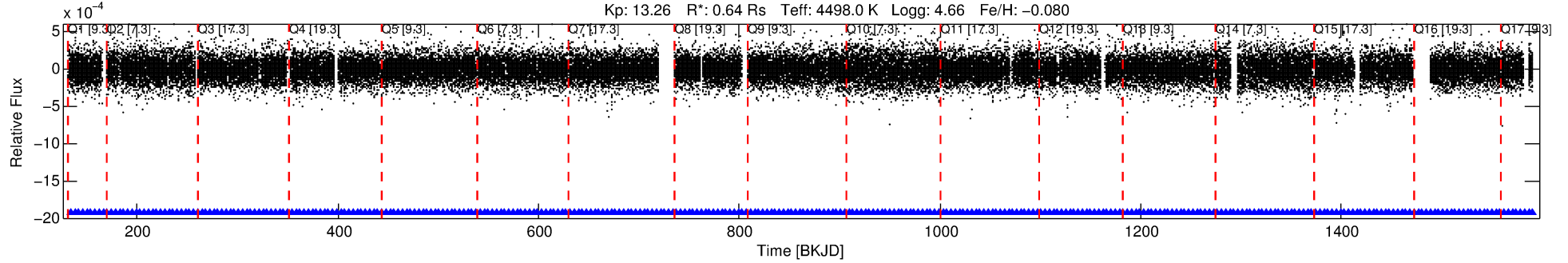
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005185897-01

No Significant Match Found

DV One-Page Summary

KIC: 5185897 Candidate: 1 of 3 Period: 4.081 d
KOI: K02693.01 Name: Kepler-398b Corr: 0.986



DV Fit Results:

Period = 4.08140 [0.00001] d
Epoch = 133.8614 [0.0010] BKJD
Rp/R* = 0.0145 [0.0035]
a/R* = 6.72 [5.80]
b = 0.88 [0.23]
Seff = 76.99 [8.71]
Teq = 755 [21] K
Rp = 1.00 [0.25] Re
a = 0.0438 [0.0025] AU
Ag = 14.49 [8.54] [1.58σ]
Teffp = 2279 [336] K [4.53σ]

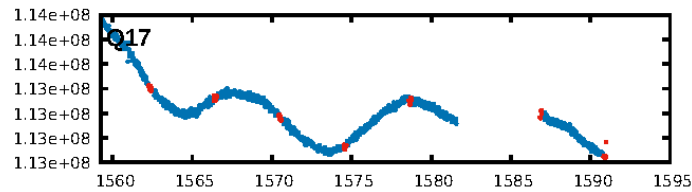
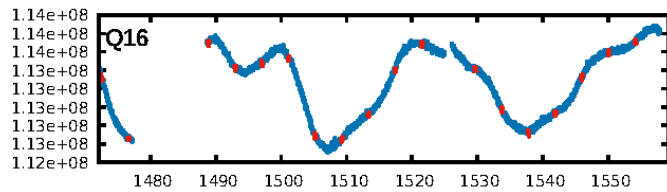
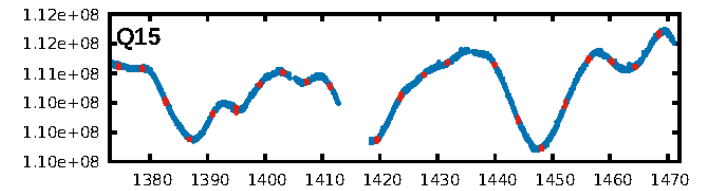
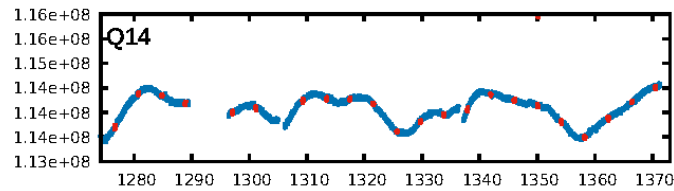
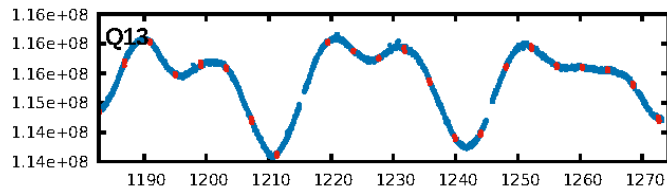
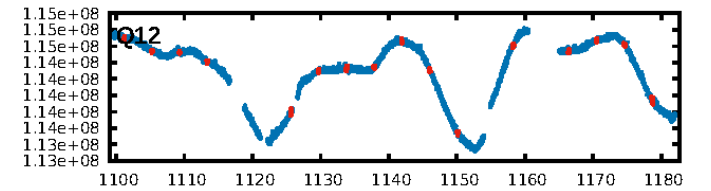
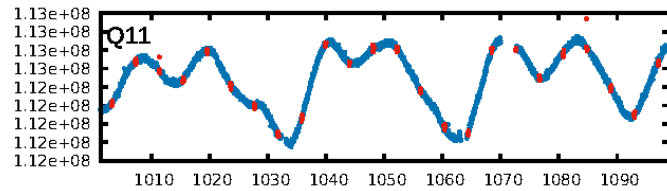
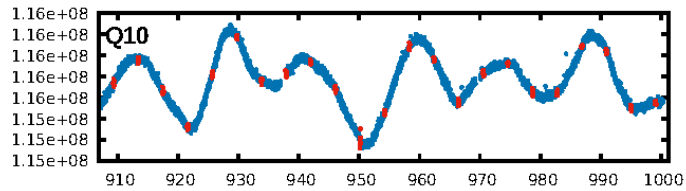
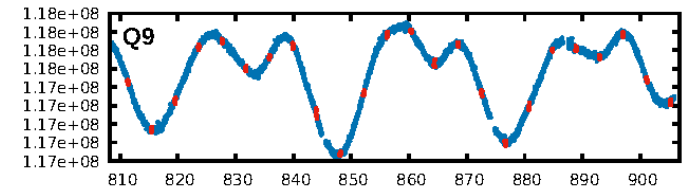
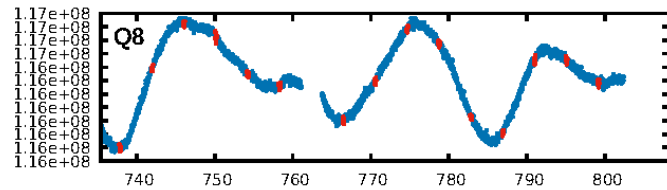
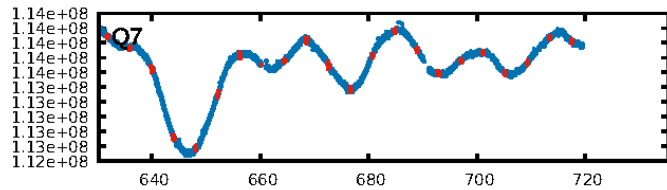
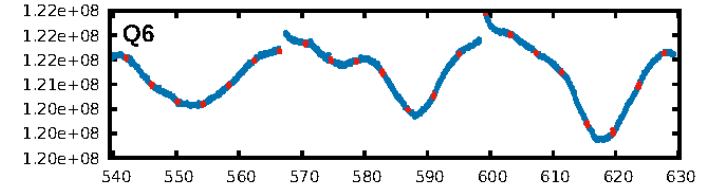
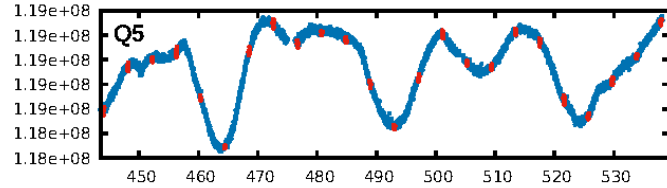
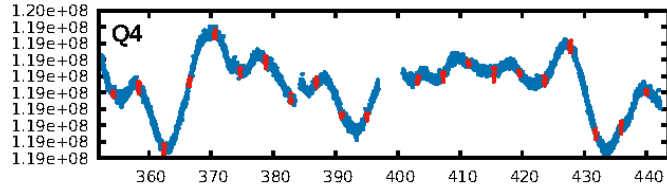
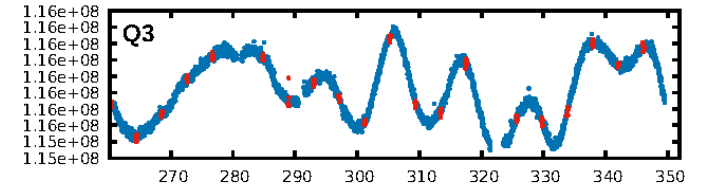
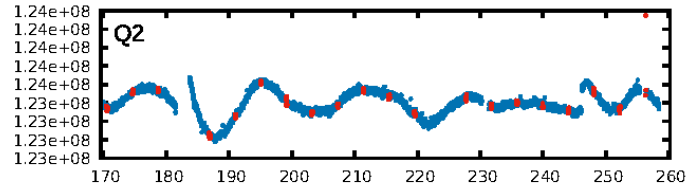
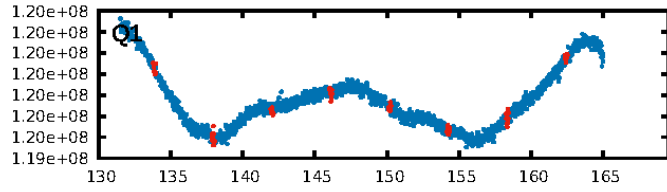
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [20.51σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.96e-224
RollingBand-fgt: 1.00 [311/311]
GhostDiagnostic-chr: 5.602
Centroid-sig: 1.4%
Centroid-so: 0.451 arcsec [1.76σ]
OotOffset-rm: 0.135 arcsec [0.22σ]
KicOffset-rm: 0.634 arcsec [1.07σ]
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]

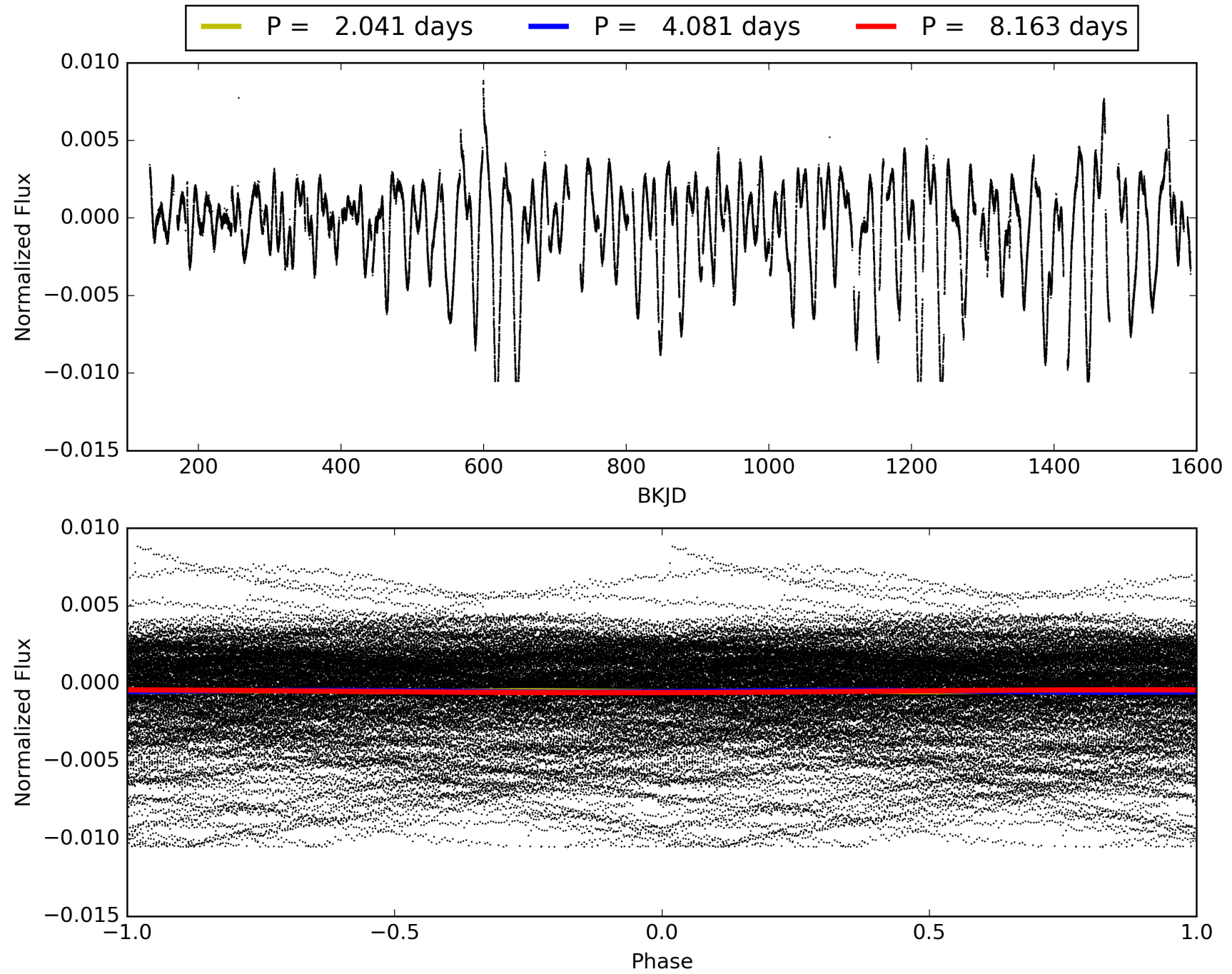
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005185897-01, PDC Light Curves

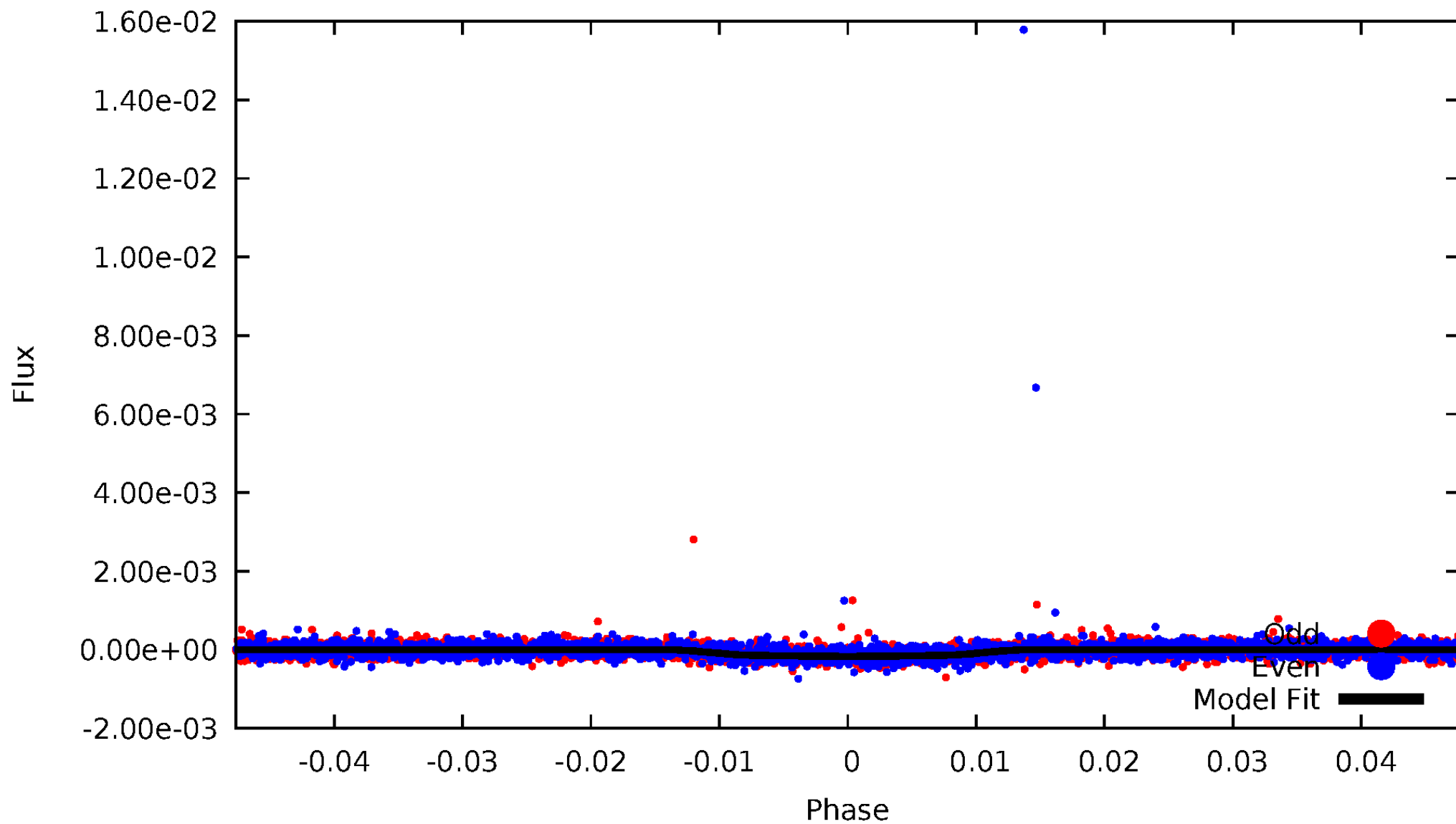


TCE 005185897-01



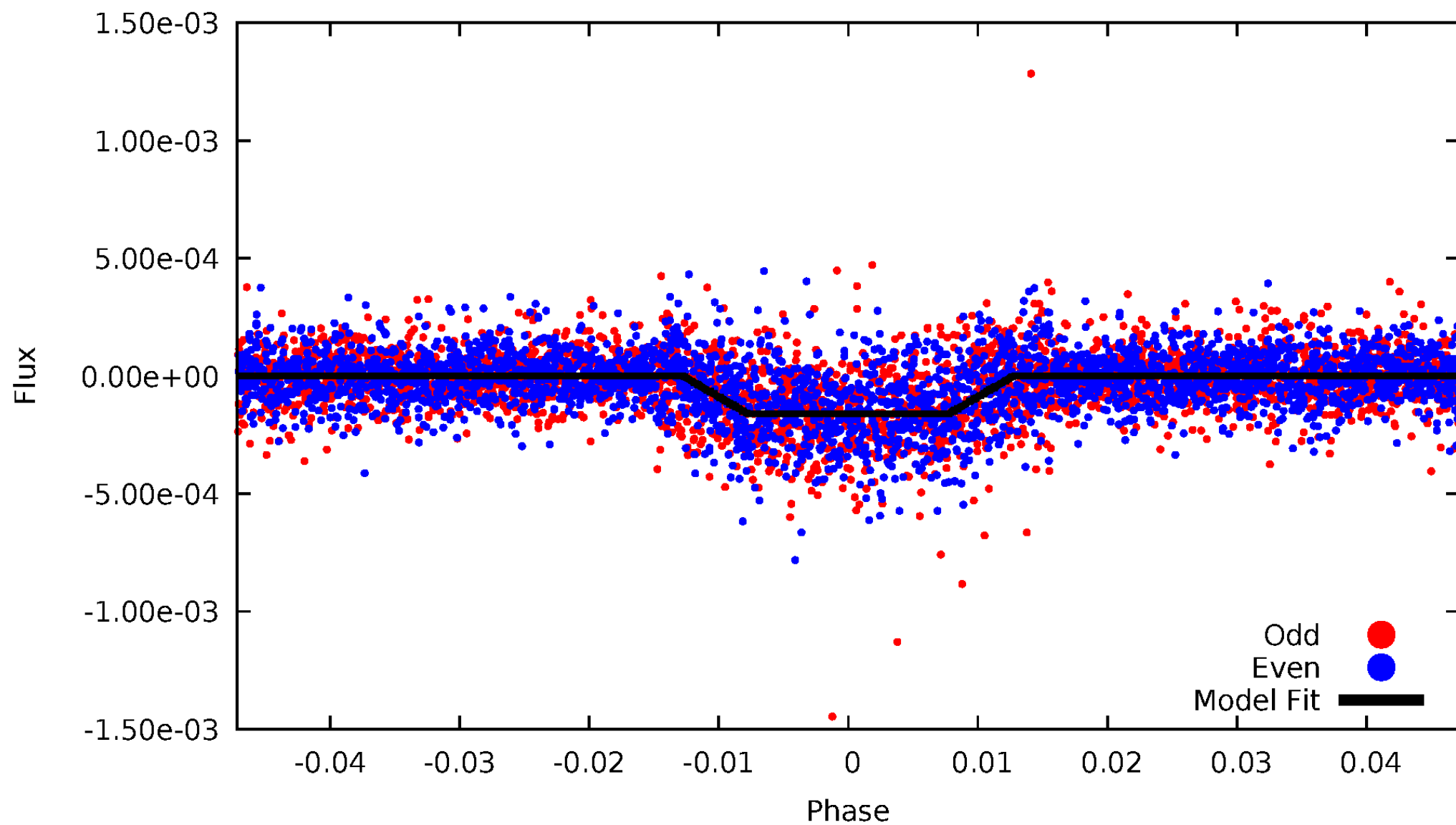
DV Odd/Even

TCE 005185897-01

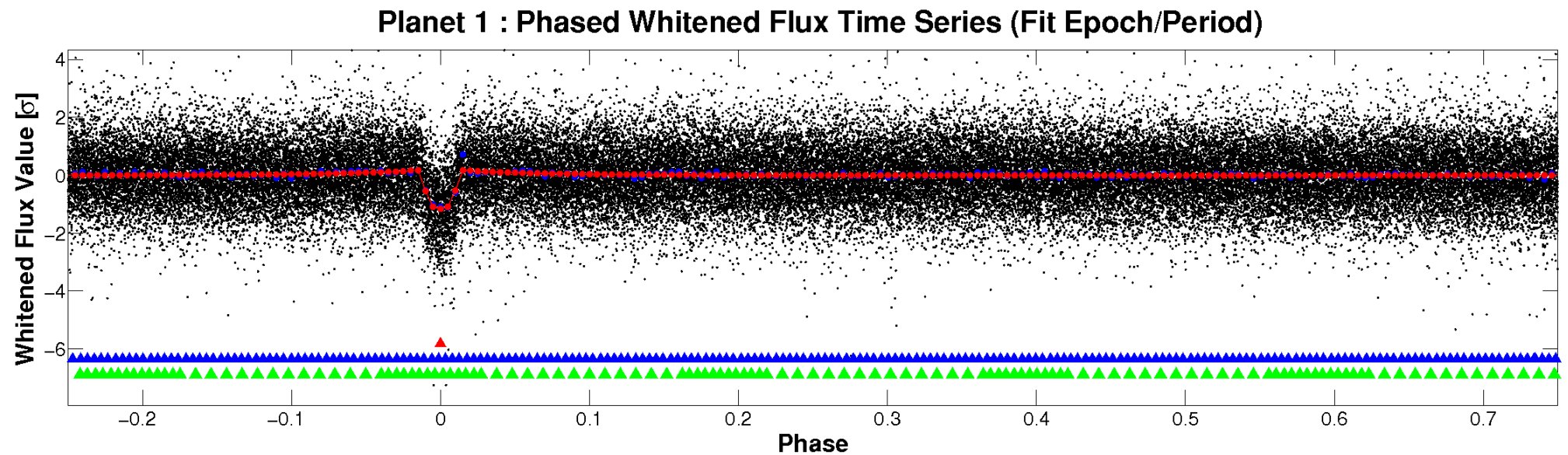
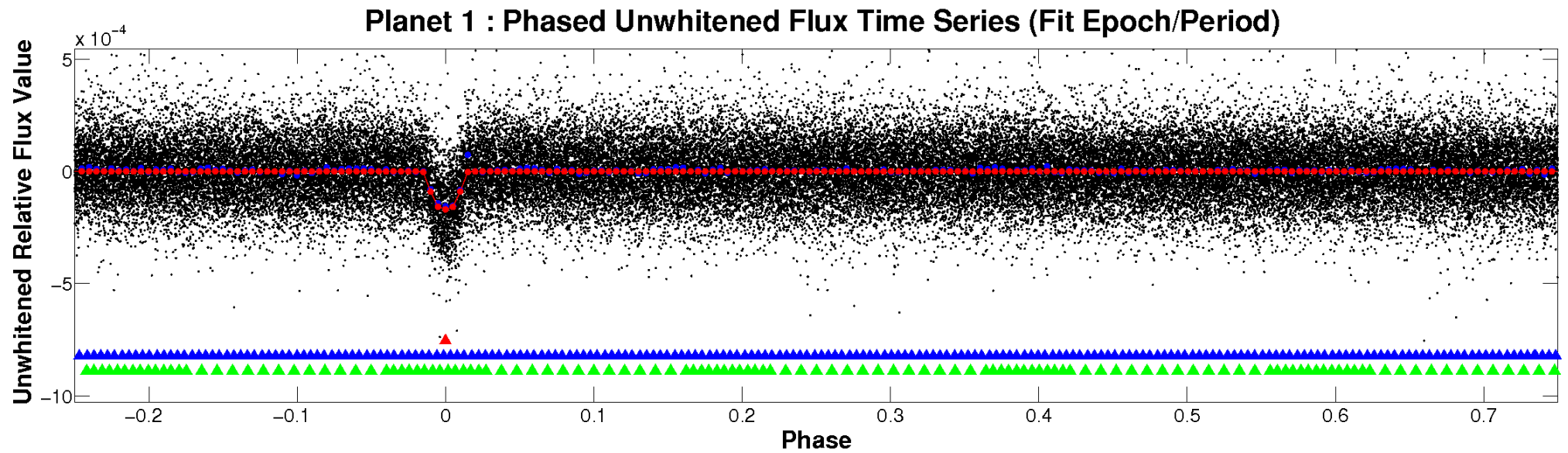


ALT Odd/Even

TCE 005185897-01

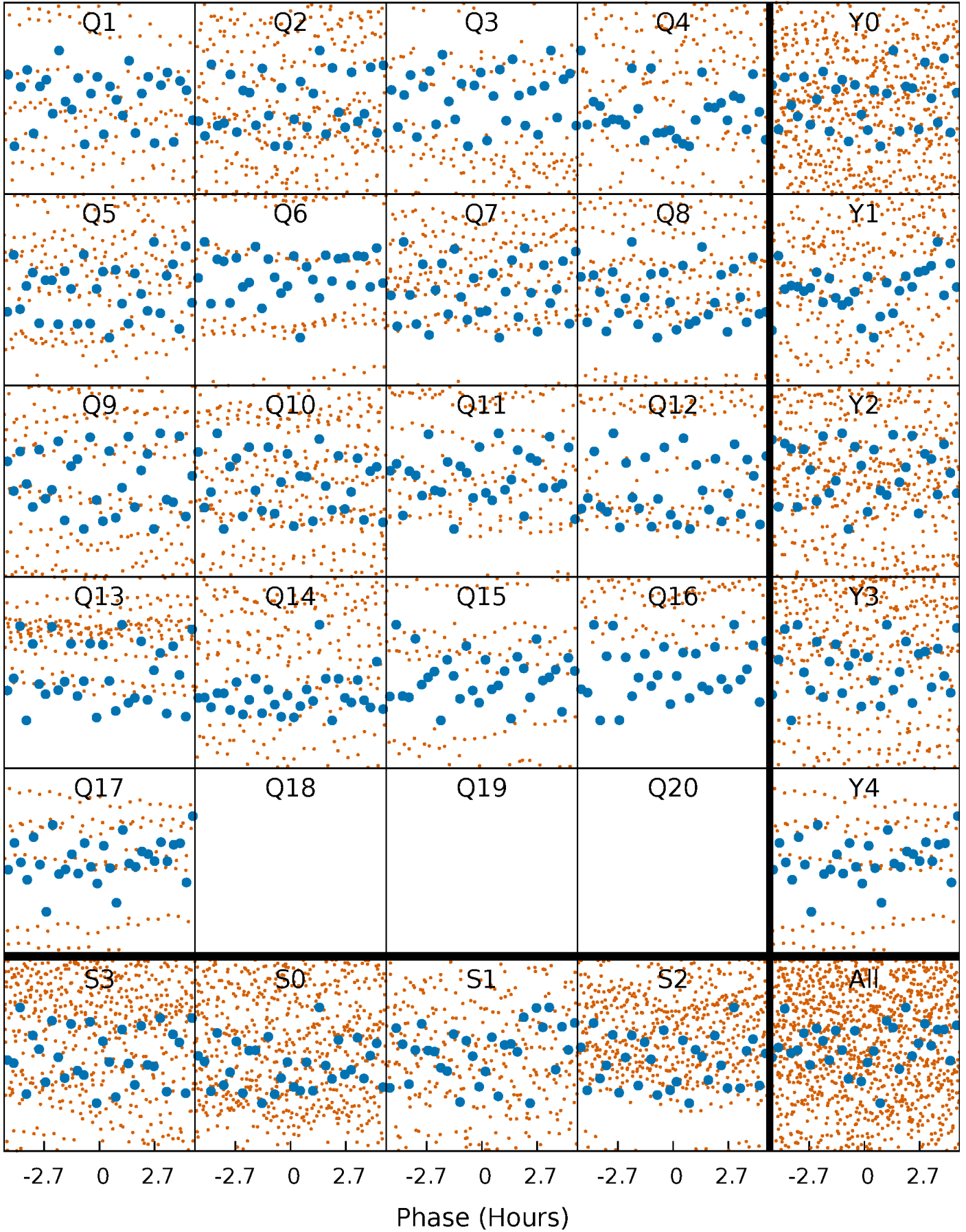


Non-Whitened Vs. Whitened Light Curve



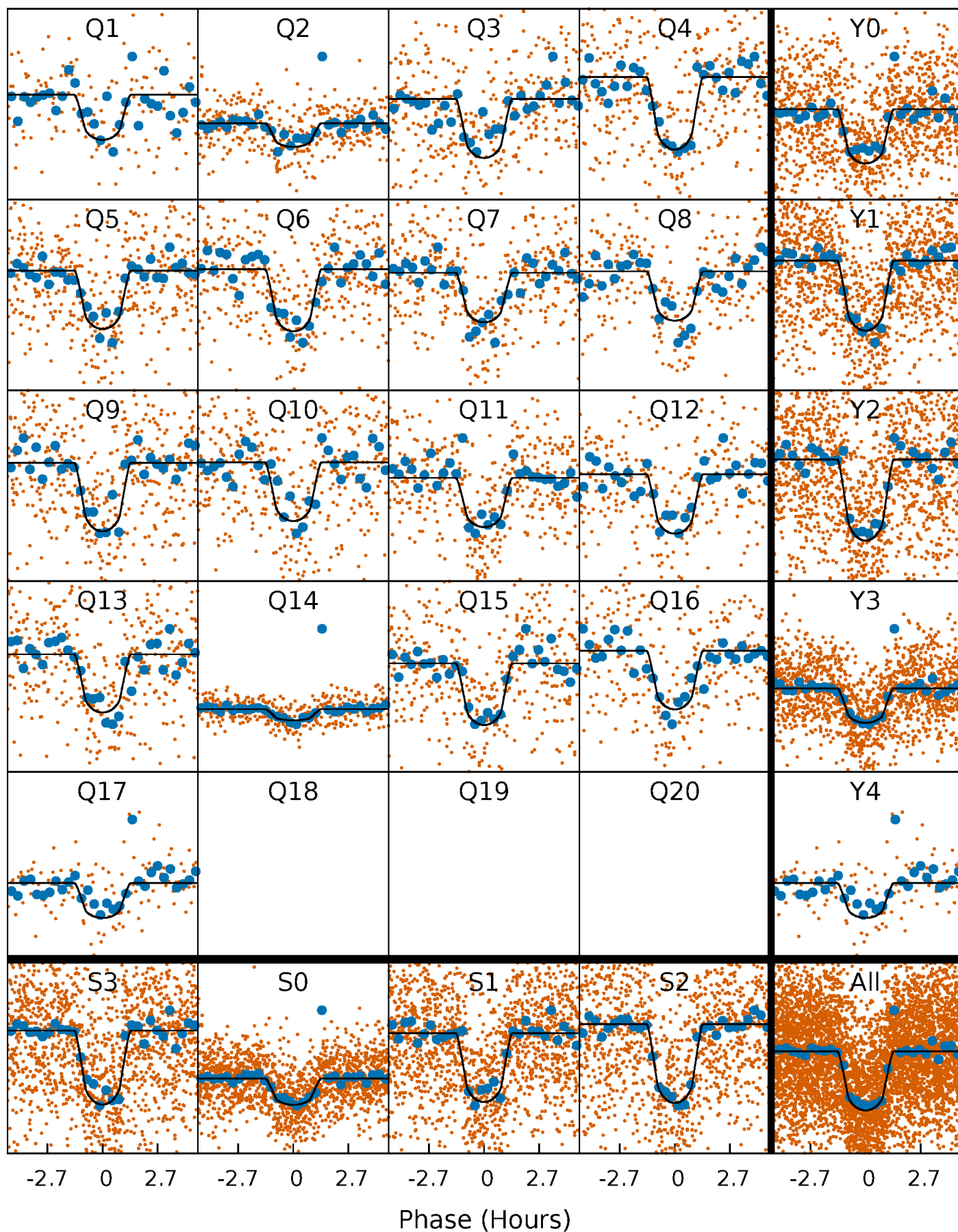
PDC Quarter-Phased Transit Curves

TCE 005185897-01 P= 4.081399 Days $T_0=133.861352$ (BKJD)



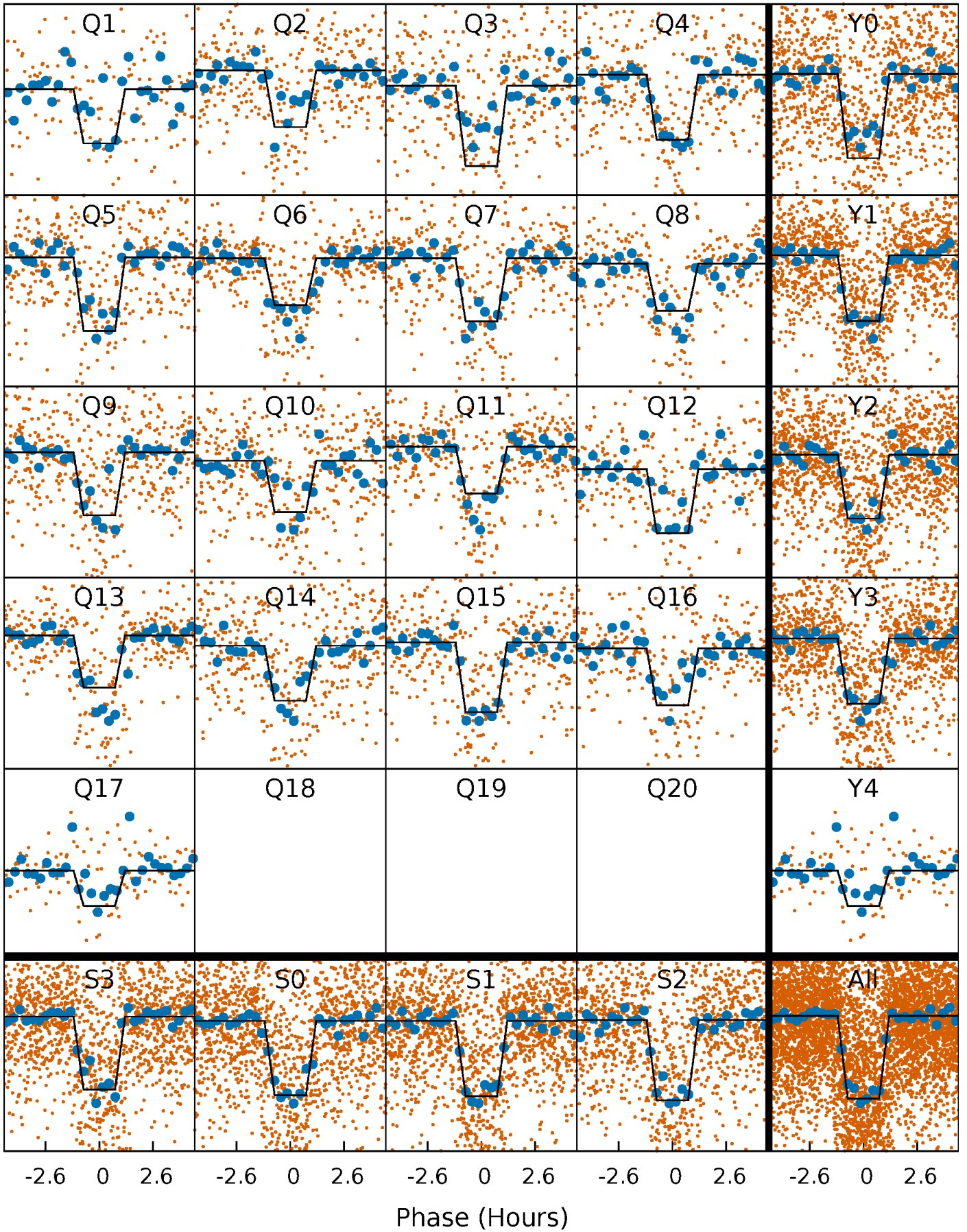
DV Quarter-Phased Transit Curves

TCE 005185897-01 P= 4.081399 Days $T_0=133.861352$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

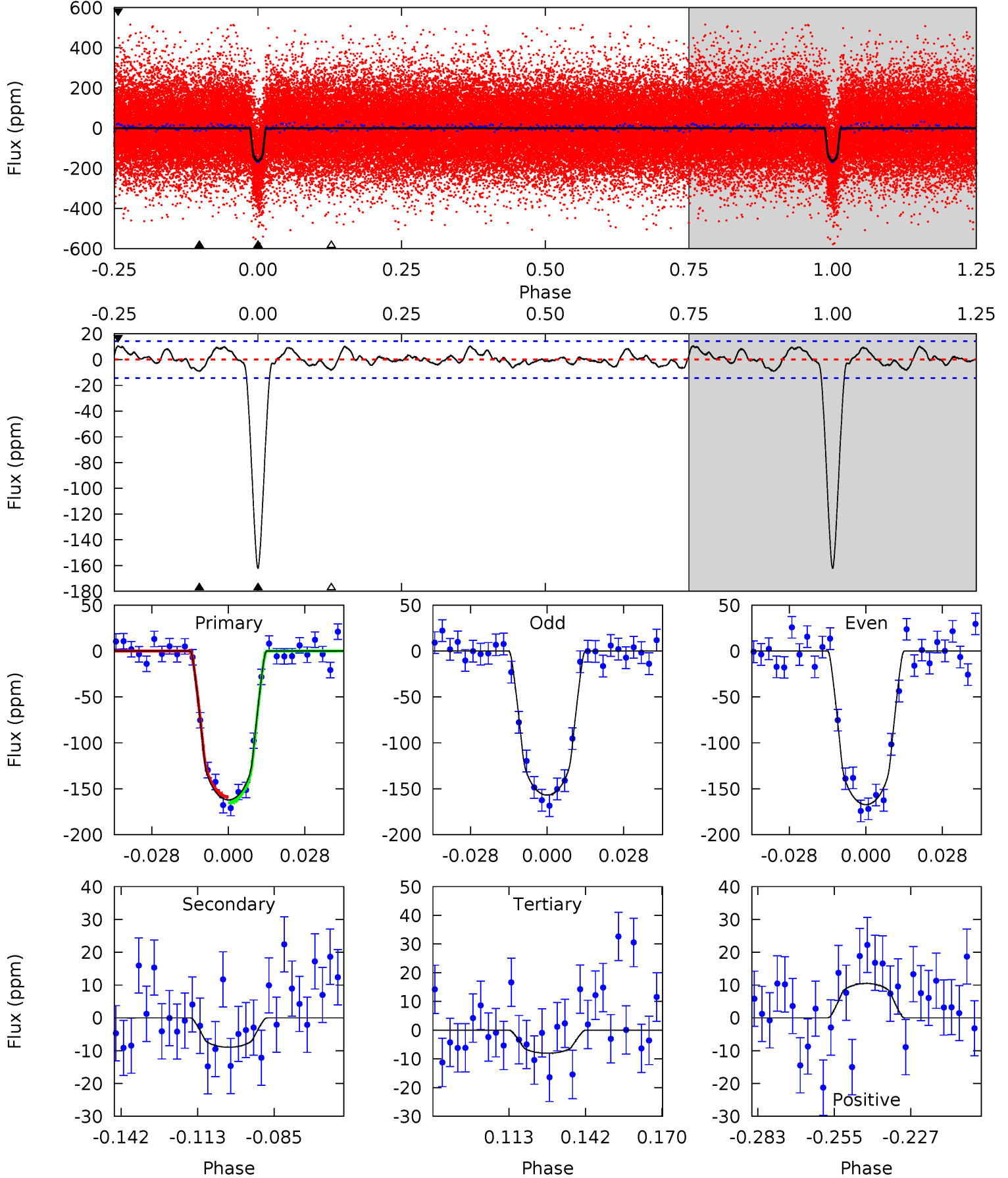
TCE 005185897-01 P= 4.081409 Days $T_0=133.860458$ (BKJD)



DV Model-Shift Uniqueness Test

005185897-01, P = 4.081399 Days, E = 129.779953 Days

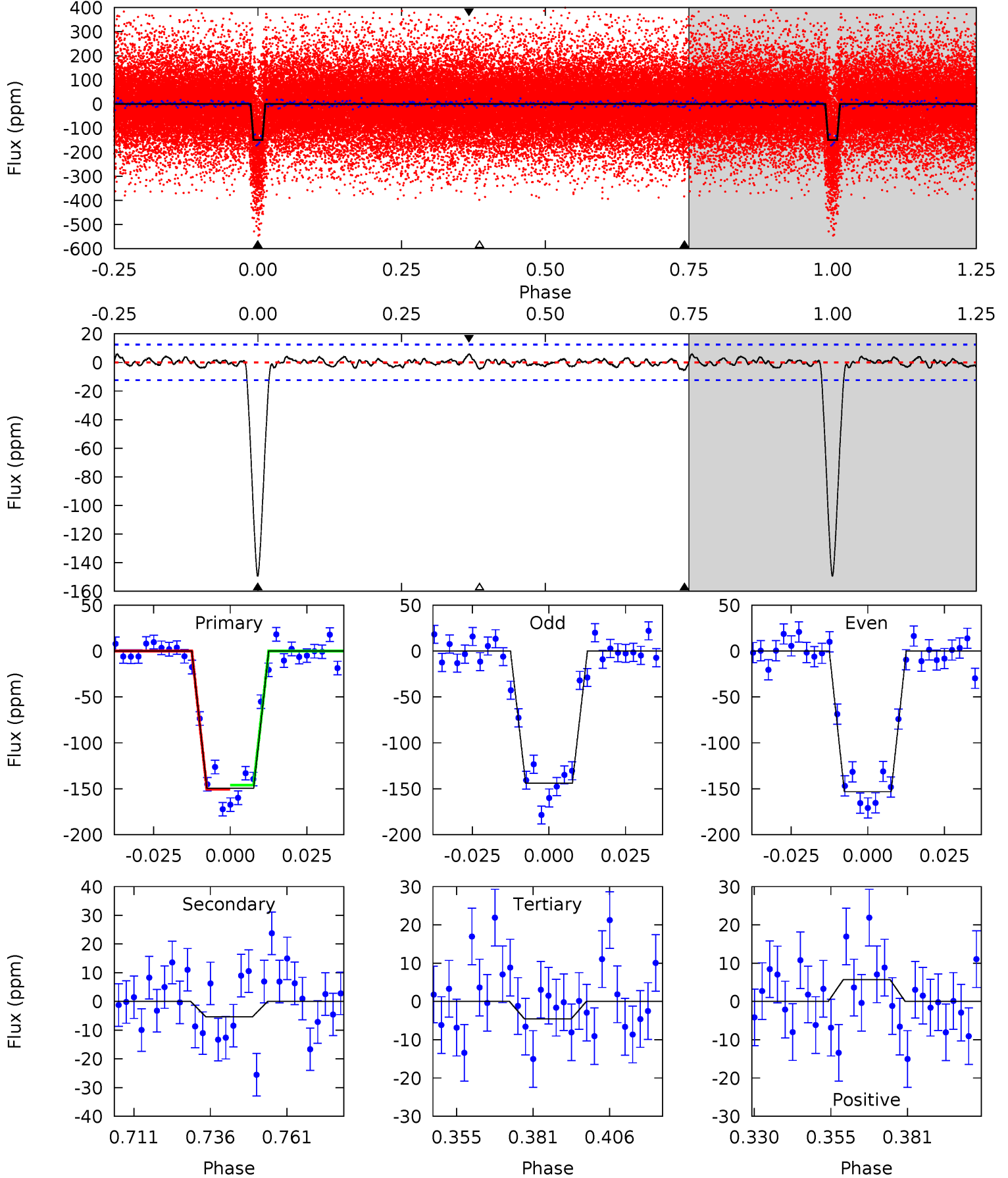
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
54.4	3.00	2.70	3.52	4.82	2.19	1.37	51.7	50.9	0.30	-0.51	1.74	0.97	0.06	1.10



Alt Model-Shift Uniqueness Test

005185897-01, P = 4.081409 Days, E = 129.779049 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
58.4	2.08	1.78	2.23	4.84	2.24	0.72	56.6	56.1	0.30	-0.14	1.79	1.04	0.04	0.89



Stellar Parameters For KIC 005185897

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4498^{+90}_{-90}	$4.661^{+0.012}_{-0.042}$	$-0.080^{+0.150}_{-0.150}$	$0.635^{+0.045}_{-0.019}$	$0.698^{+0.028}_{-0.042}$	$3.840^{+0.200}_{-0.705}$
	+2%/-2%	+0%/-1%	+188%/-188%	+7%/-3%	+4%/-6%	+5%/-18%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 005185897-01 / KOI 2693.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-9 ± 3	$1.04^{+0.25}_{-0.26}$	1063^{+26}_{-25}	2703^{+249}_{-220}	$8.624^{+7.964}_{-3.859}$
Alt.	-5 ± 3	$0.88^{+0.25}_{-0.25}$	1063^{+26}_{-24}	2632^{+289}_{-279}	$7.099^{+8.067}_{-4.073}$

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

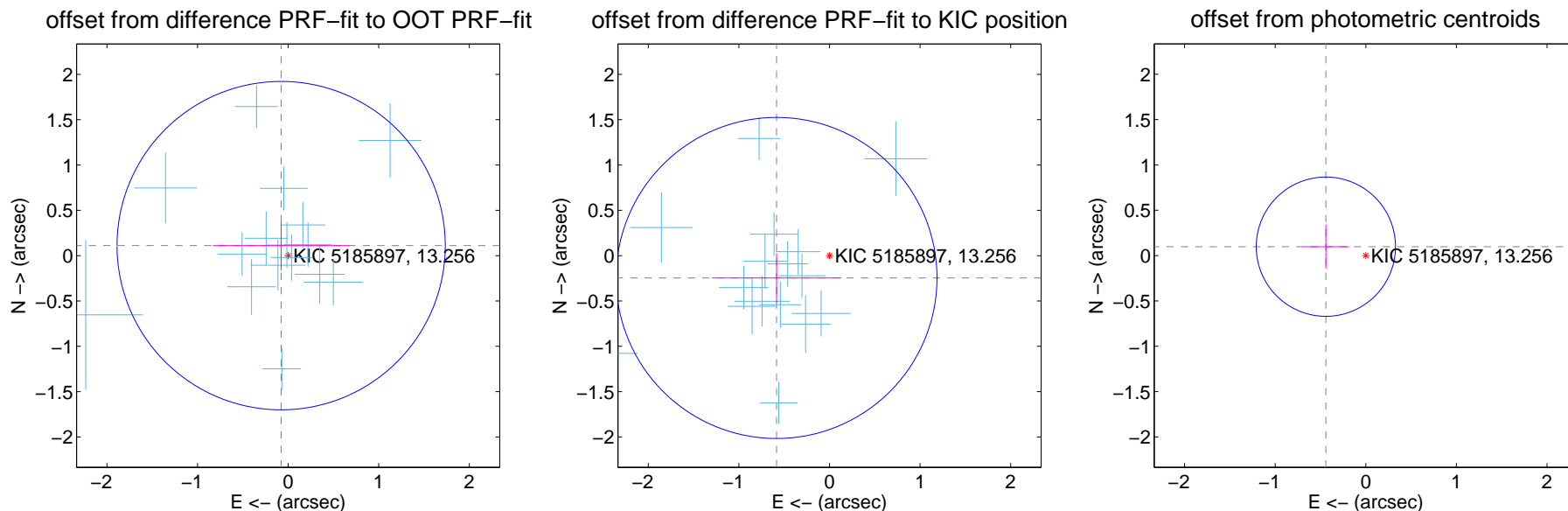
DV Centroid Data

Supplemental centroid analysis for 005185897-01. Kepler magnitude: 13.26. Transit SNR 37.61

There are 16 quarters with good PRF difference image offsets

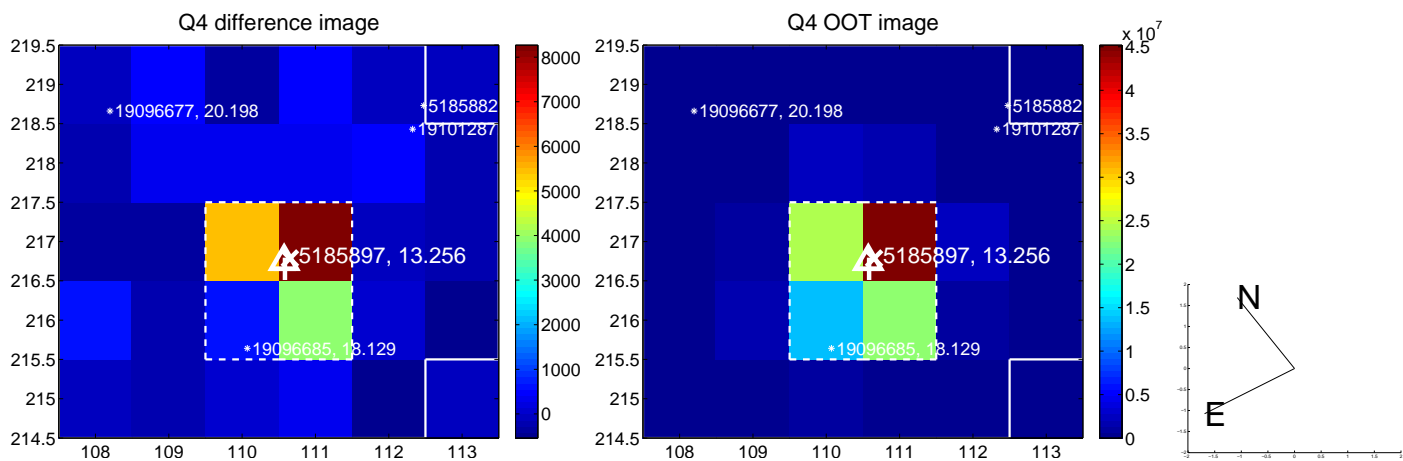
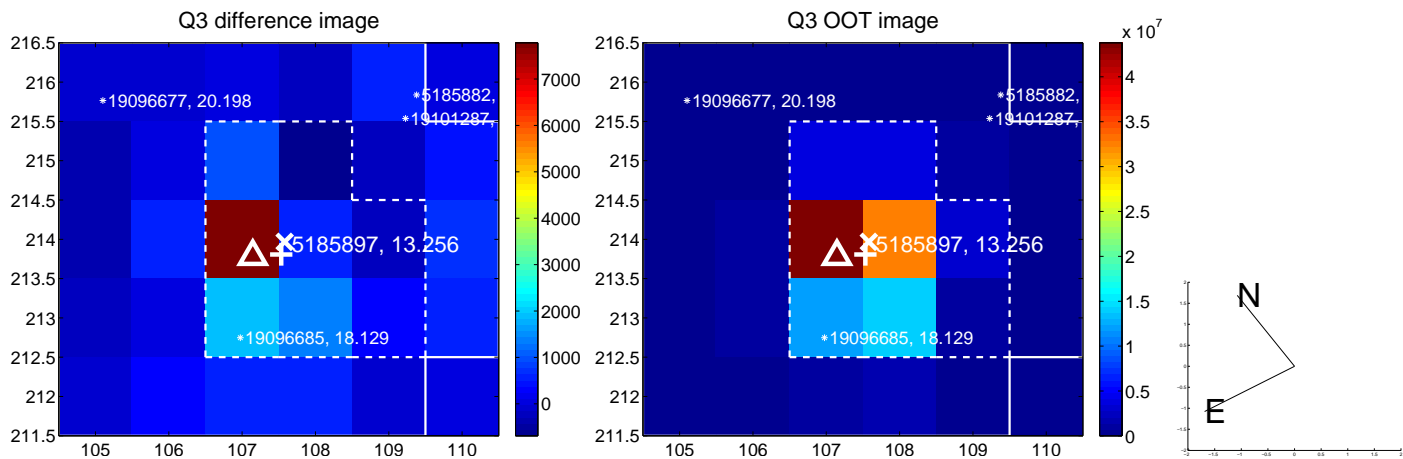
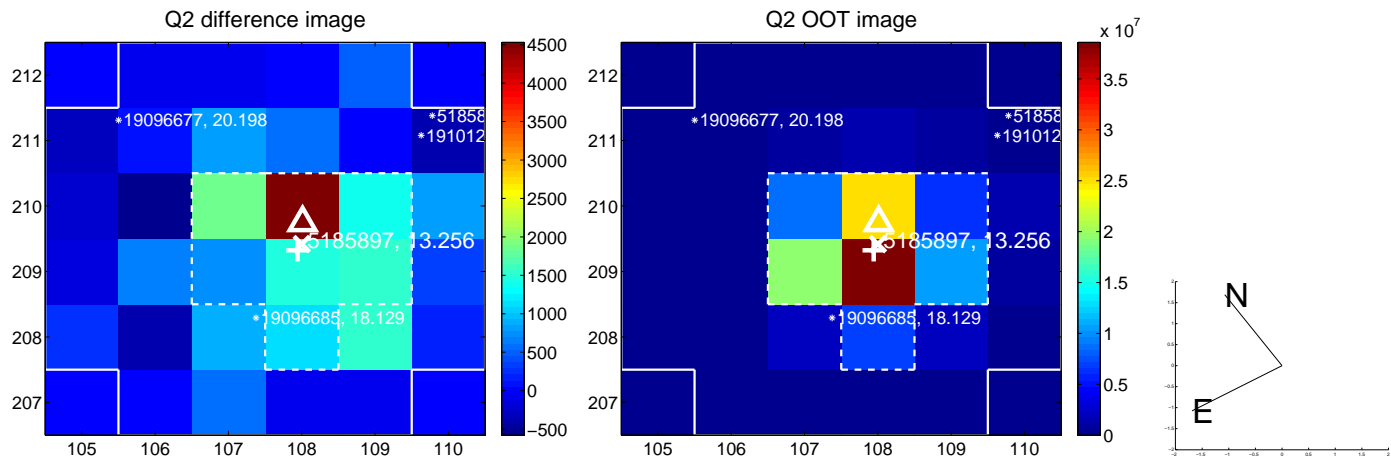
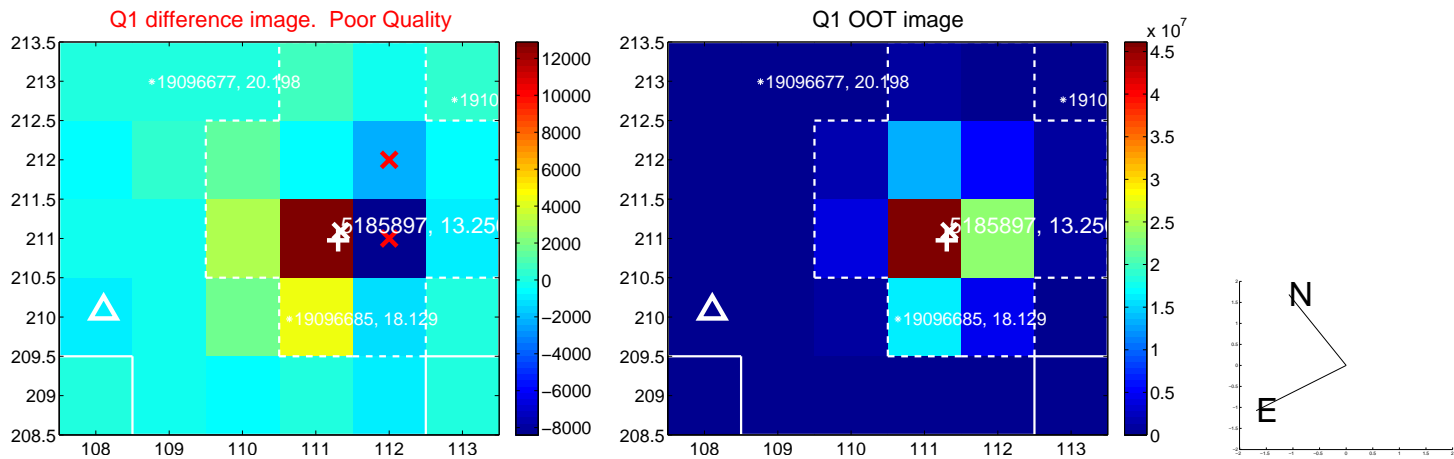
The direct PRF centroid is offset from the target star catalog position by about 0.67 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.135 ± 0.604	0.22	0.077 ± 0.753	0.111 ± 0.272
PRF-fit source offset from KIC position	0.634 ± 0.590	1.07	0.584 ± 0.713	-0.246 ± 0.272
photometric centroid source offset	0.45 ± 0.26	1.76	0.44 ± 0.26	0.10 ± 0.24

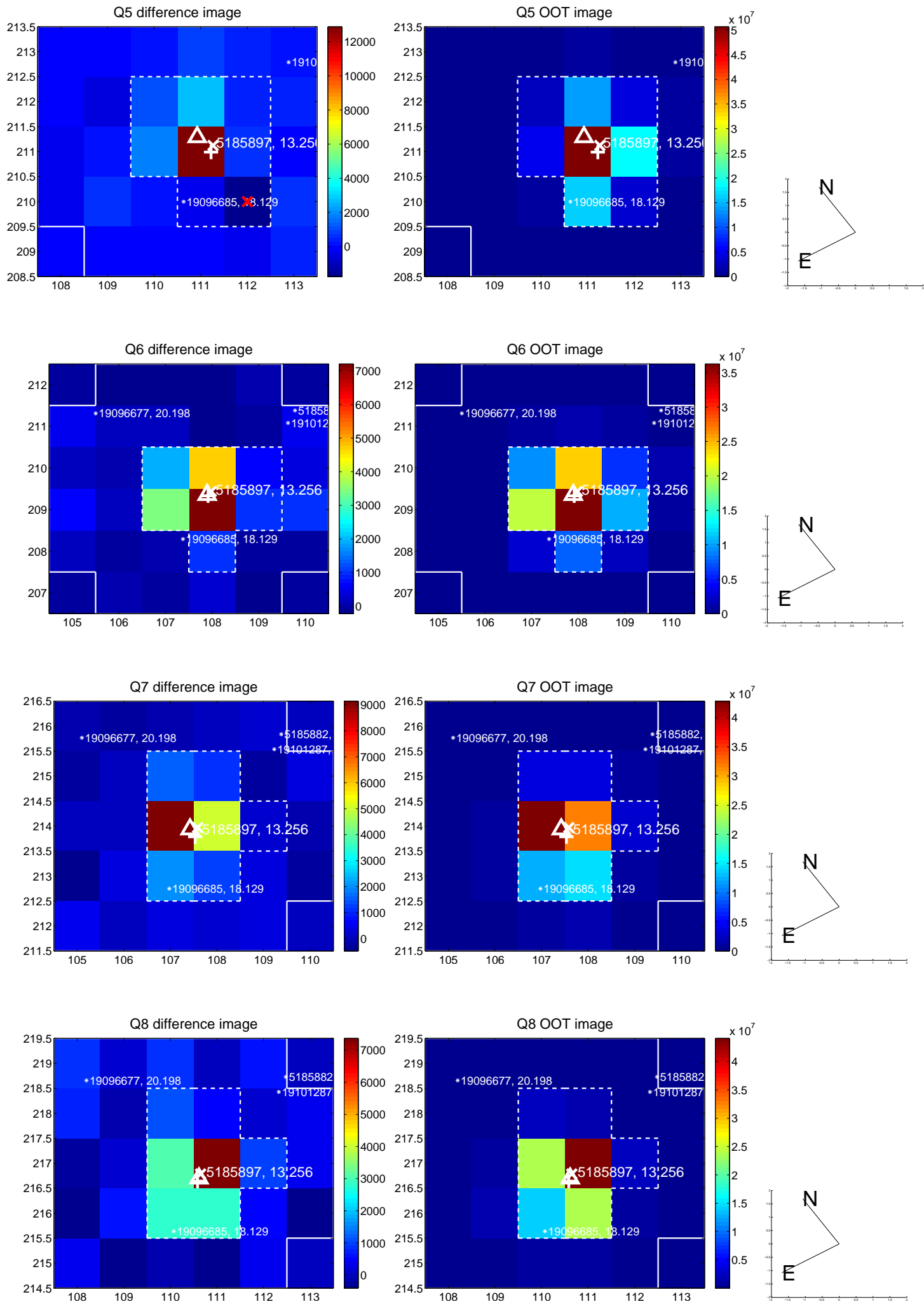


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

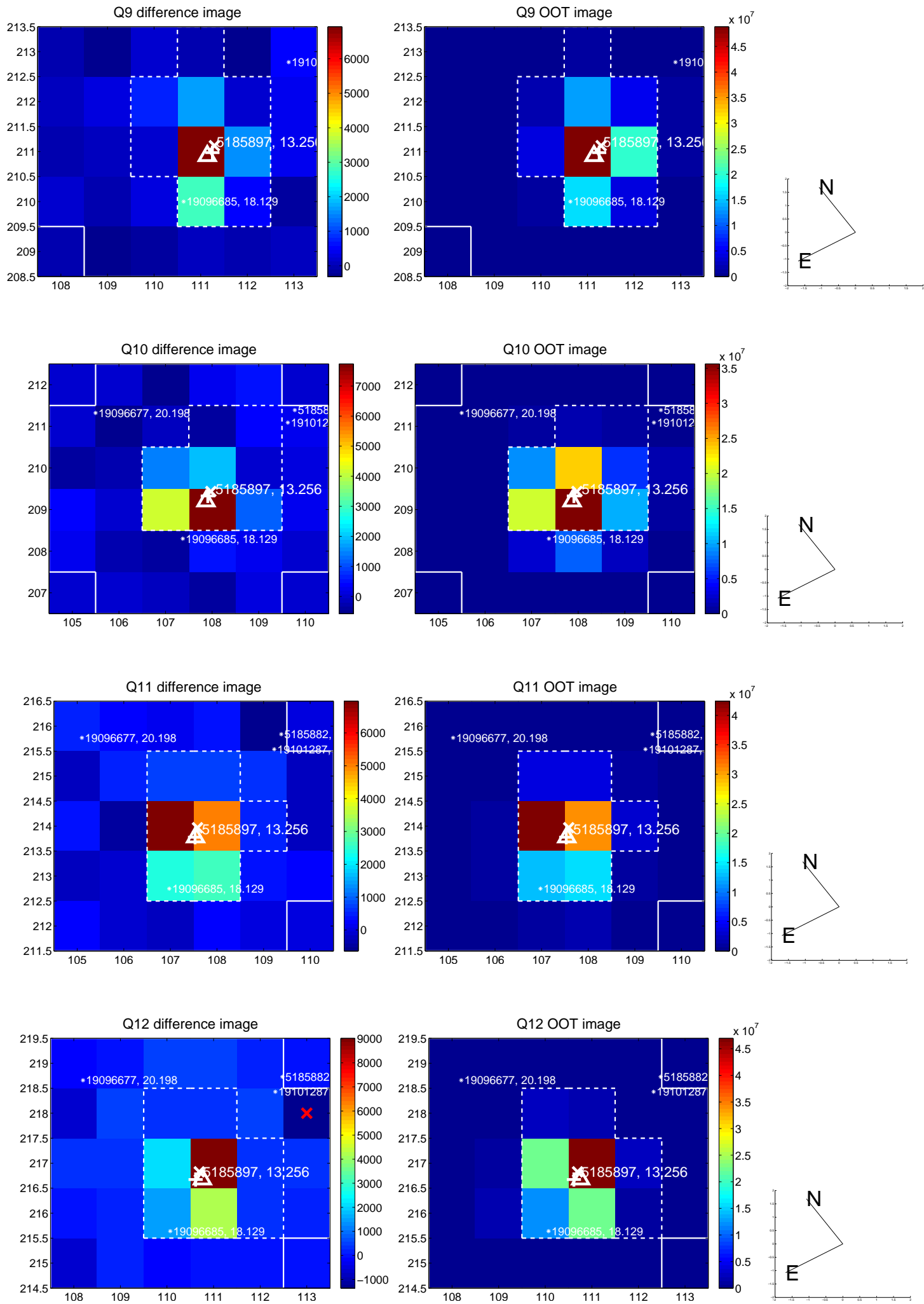
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



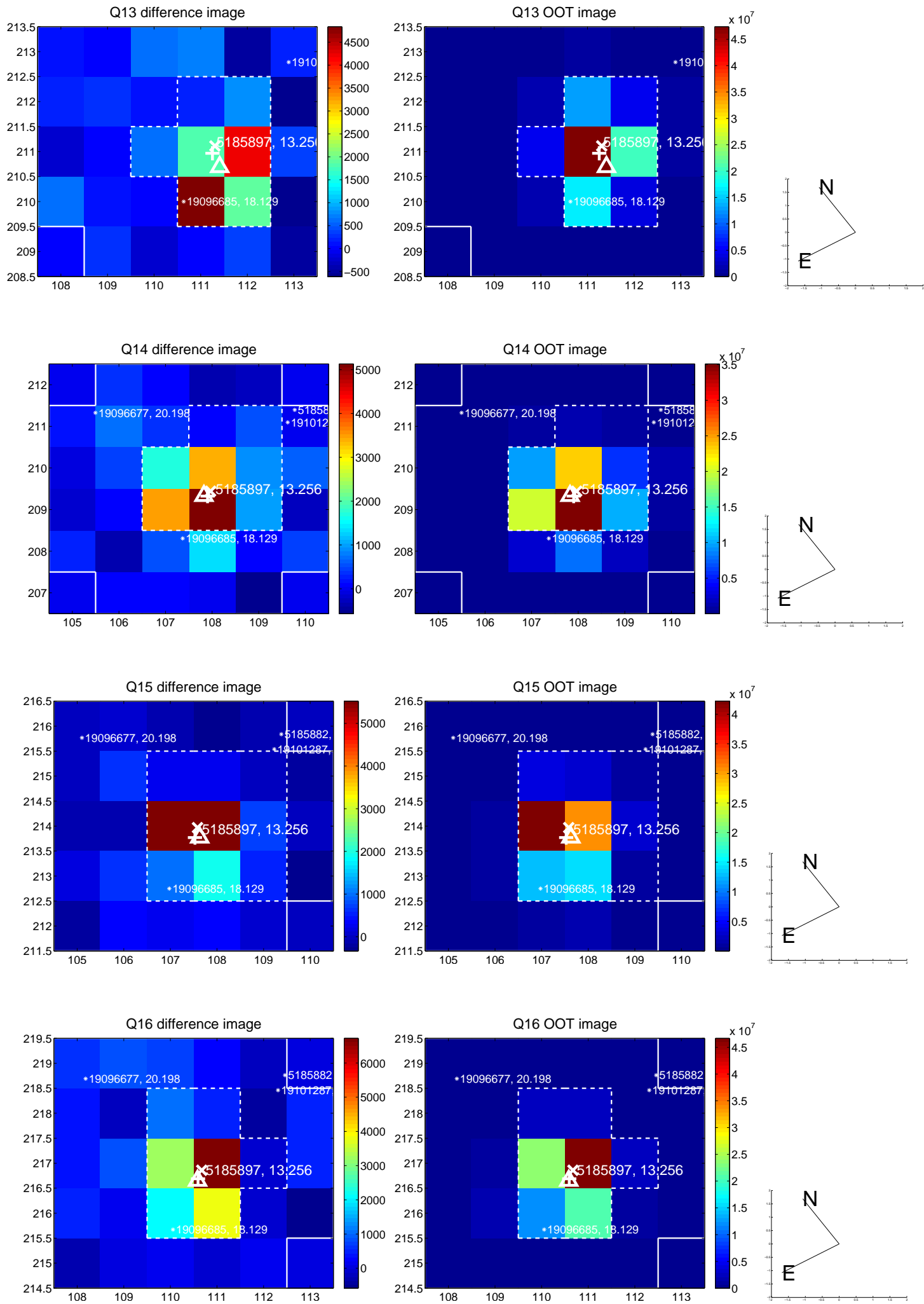
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



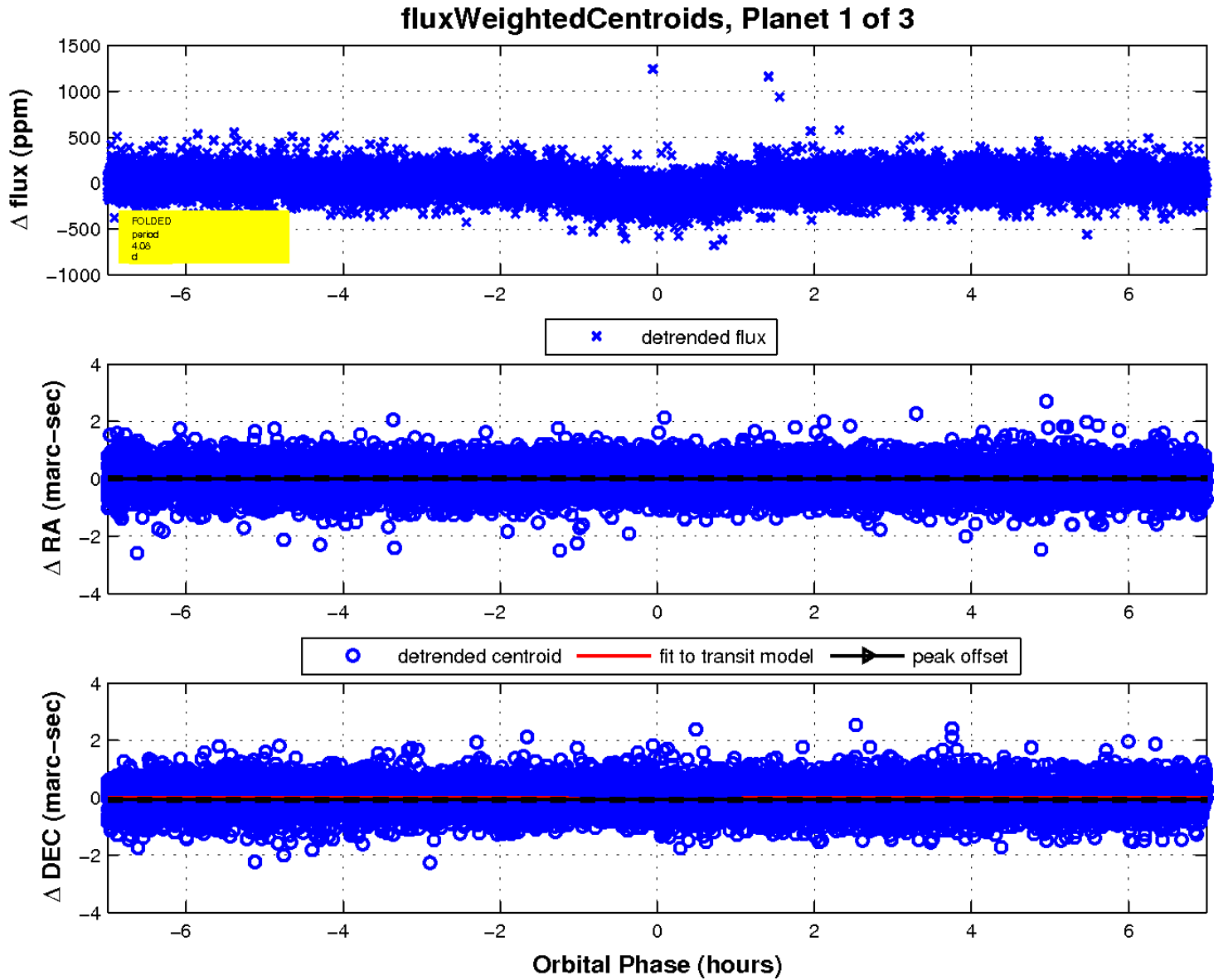
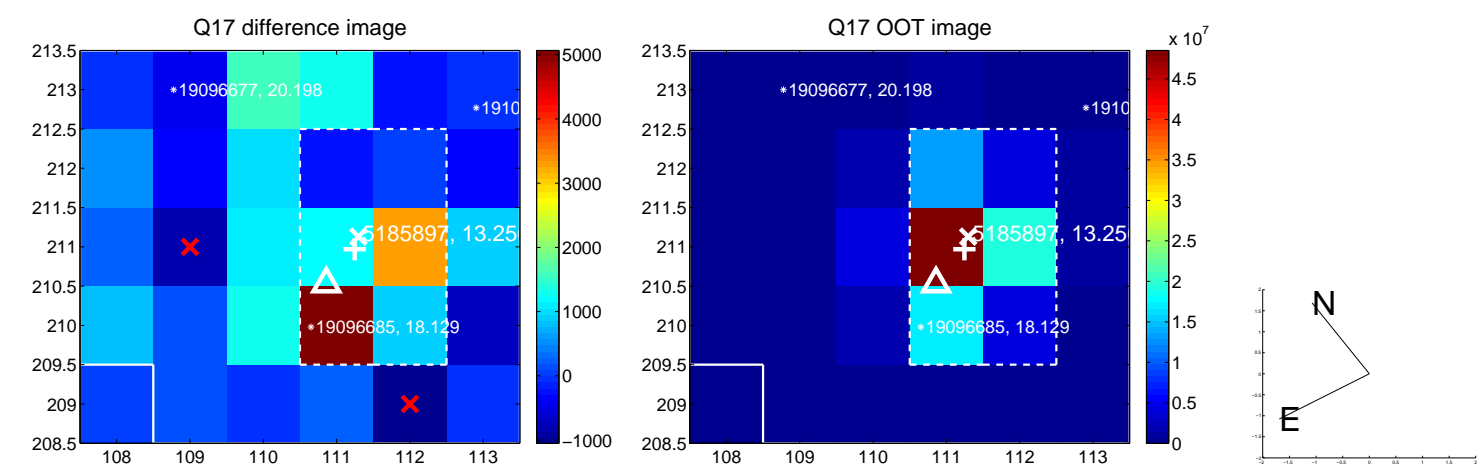
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

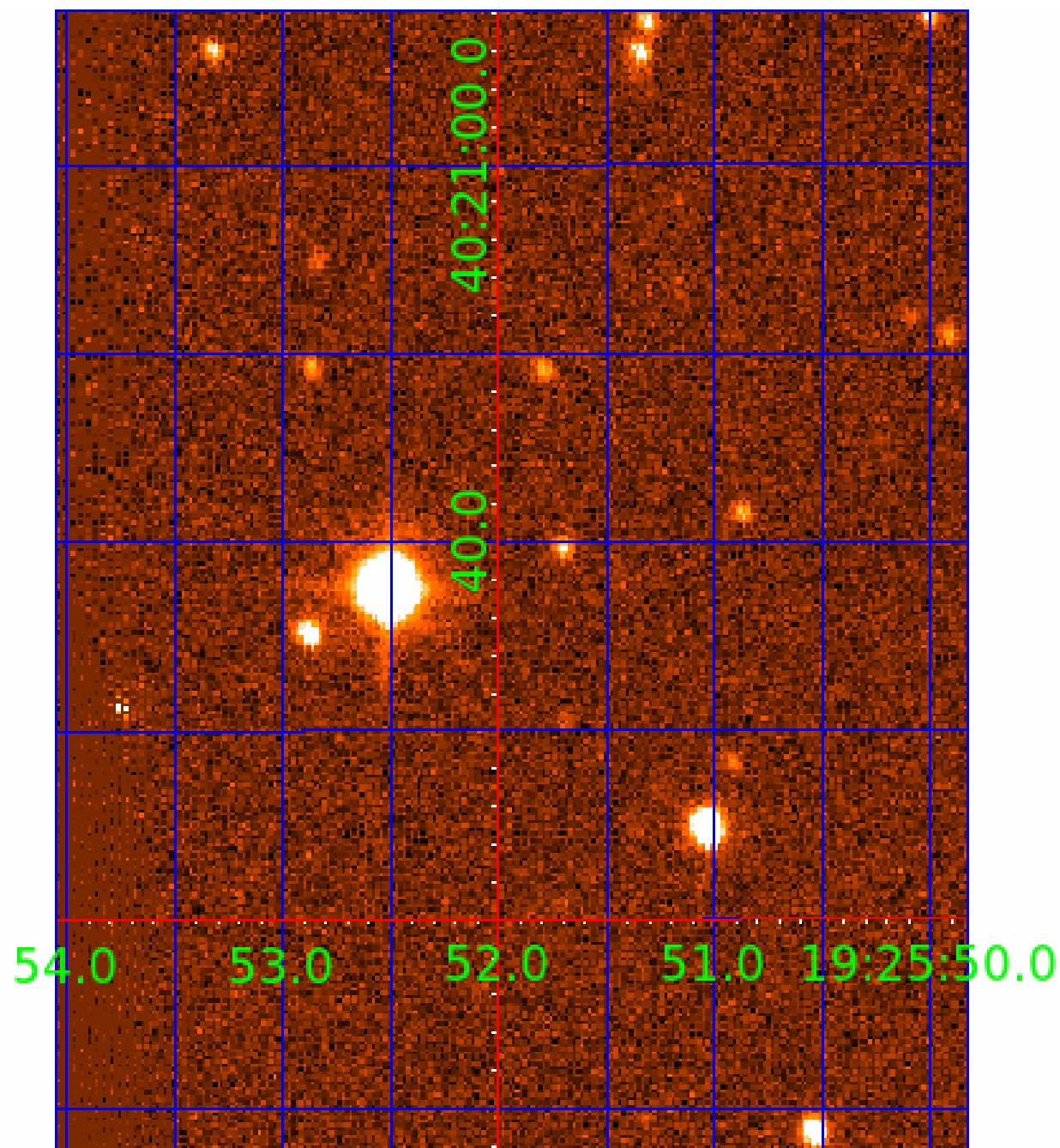


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005185897

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})
005185897-01	OBS	2693.01	4.081399	133.861352	169.7	2.333	32.8	37.6	0.64	4498	1.00	76.99
005185897-02	OBS	2693.03	6.834402	136.860946	172.7	2.222	24.5	28.6	0.64	4498	0.90	38.72
005185897-03	OBS	2693.02	11.419444	142.115952	155.2	3.334	20.6	22.4	0.64	4498	0.97	19.53

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005185897-01	OBS	PC	1.00	0	0	0	0	CENT_KIC_POS
005185897-02	OBS	PC	0.99	0	0	0	0	CENT_KIC_POS
005185897-03	OBS	PC	0.99	0	0	0	0	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.

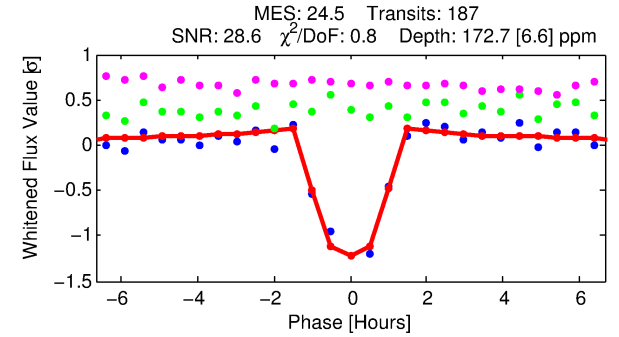
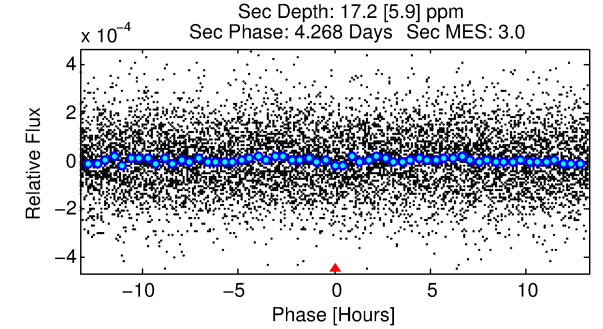
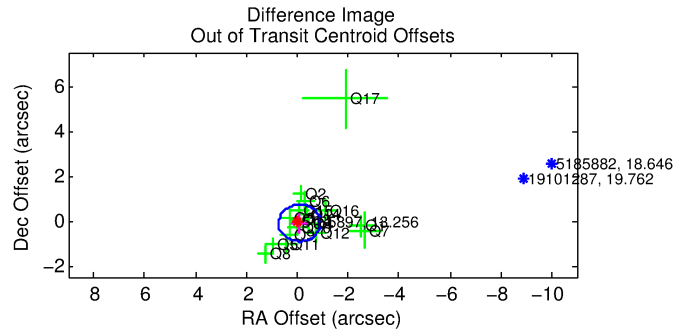
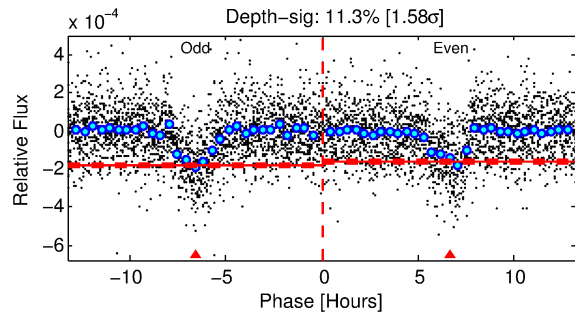
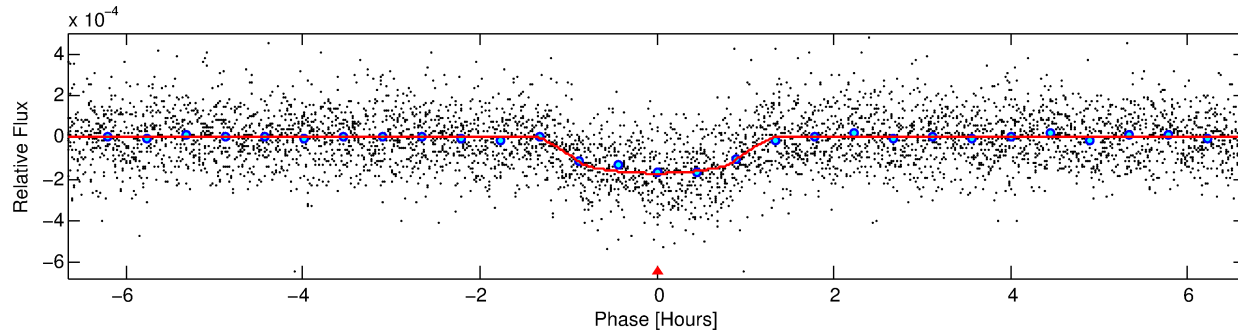
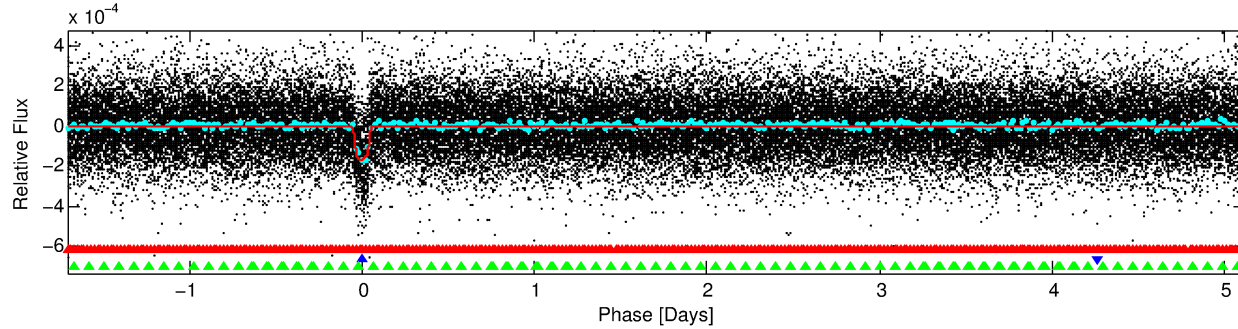
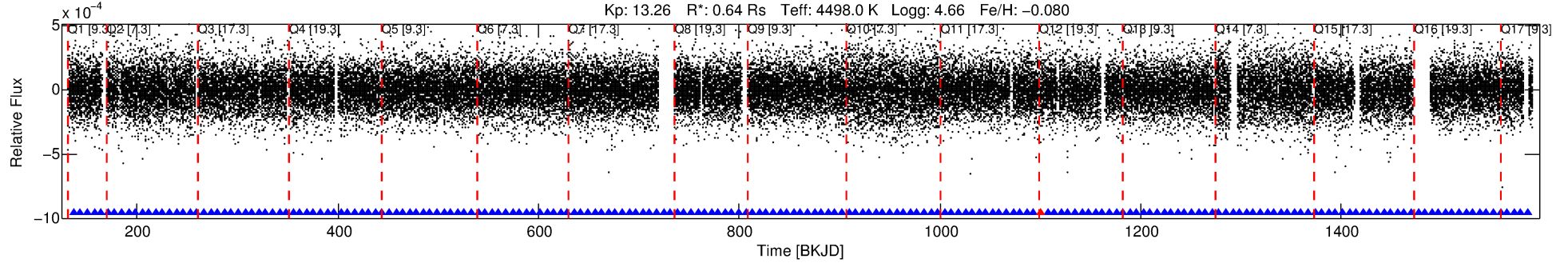
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005185897-02

No Significant Match Found

DV One-Page Summary

KIC: 5185897 Candidate: 2 of 3 Period: 6.834 d
KOI: K02693.03 Corr: 0.976



DV Fit Results:

Period = 6.83440 [0.00001] d
Epoch = 136.8609 [0.0016] BKJD
Rp/R* = 0.0129 [0.0047]
a/R* = 17.04 [19.31]
b = 0.71 [0.83]
Seff = 38.72 [4.38]
Teq = 636 [18] K
Rp = 0.90 [0.33] Re
a = 0.0618 [0.0035] AU
Ag = 45.11 [36.48] [1.21 σ]
Teffp = 2549 [515] K [3.71 σ]

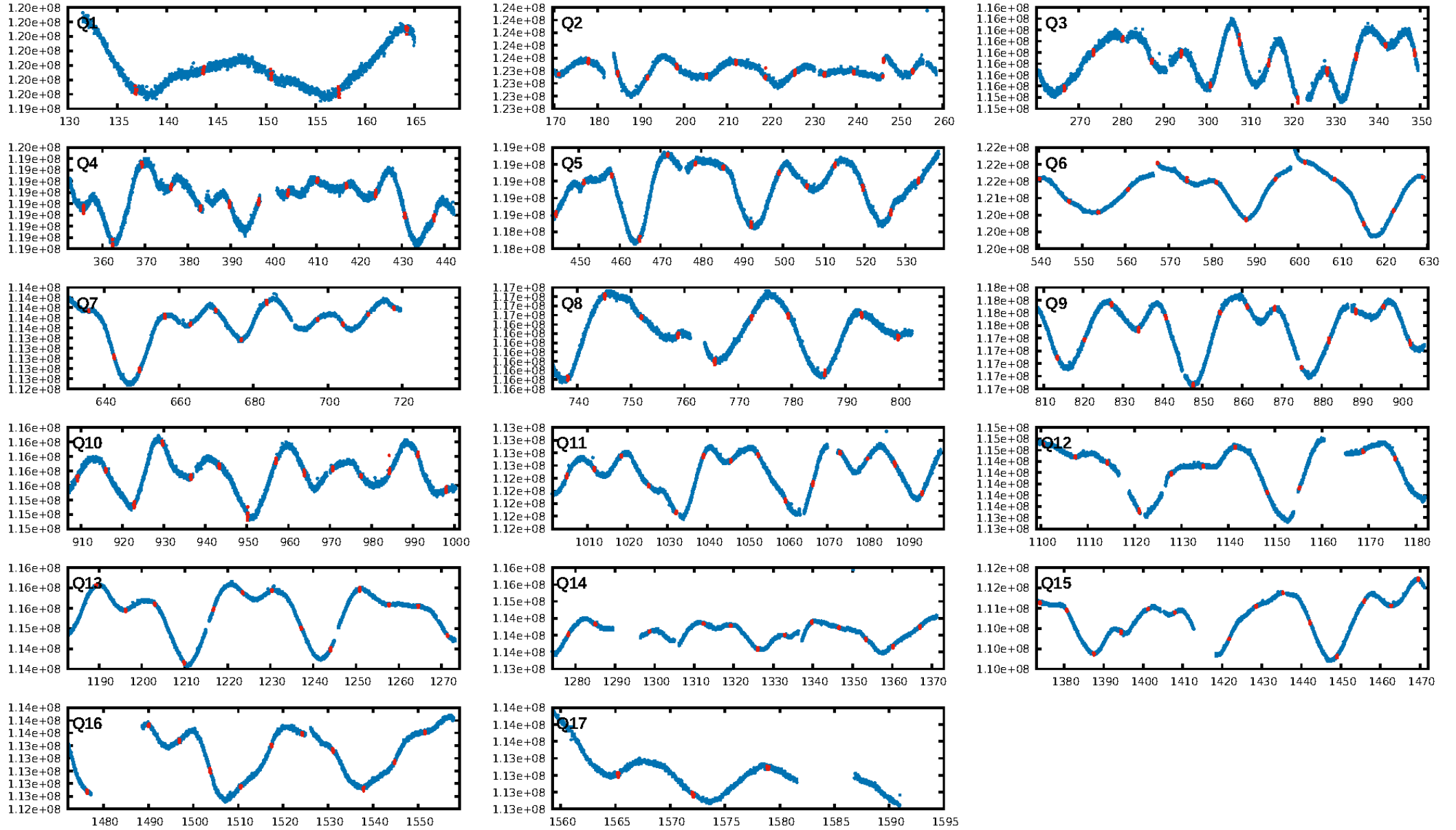
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [20.51 σ]
LongPeriod-sig: 100.0% [27.47 σ]
ModelChiSquare2-sig: 99.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 4.05e-125
RollingBand-fgt: 0.99 [178/179]
GhostDiagnostic-chr: 8.507
Centroid-sig: 81.8%
Centroid-so: 0.671 arcsec [2.07 σ]
OotOffset-rm: 0.134 arcsec [0.49 σ]
KicOffset-rm: 0.619 arcsec [1.57 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.88 [15/17]
DiffImageOverlap-fno: 1.00 [17/17]

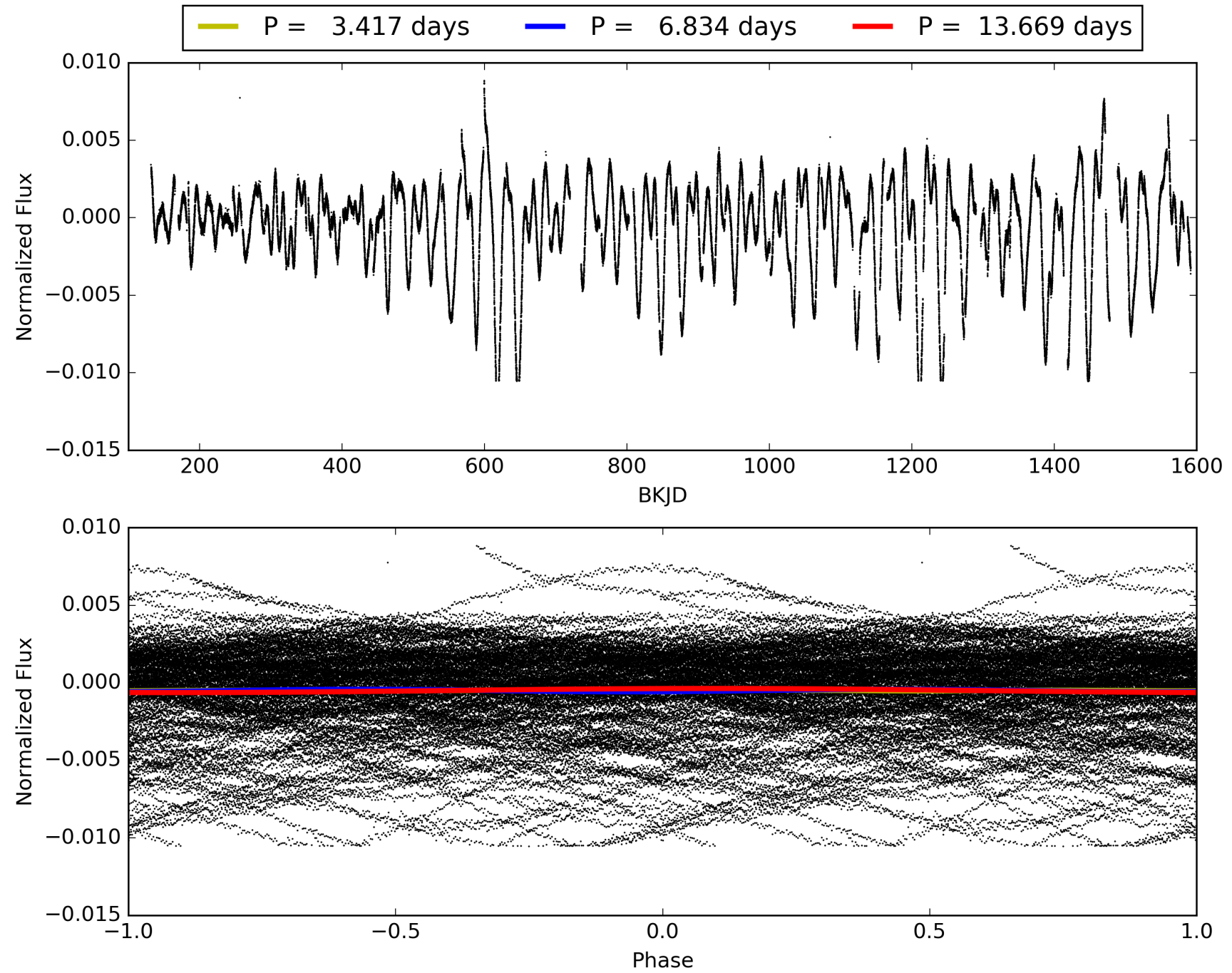
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 15:30:32 Z

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

TCE 005185897-02, PDC Light Curves

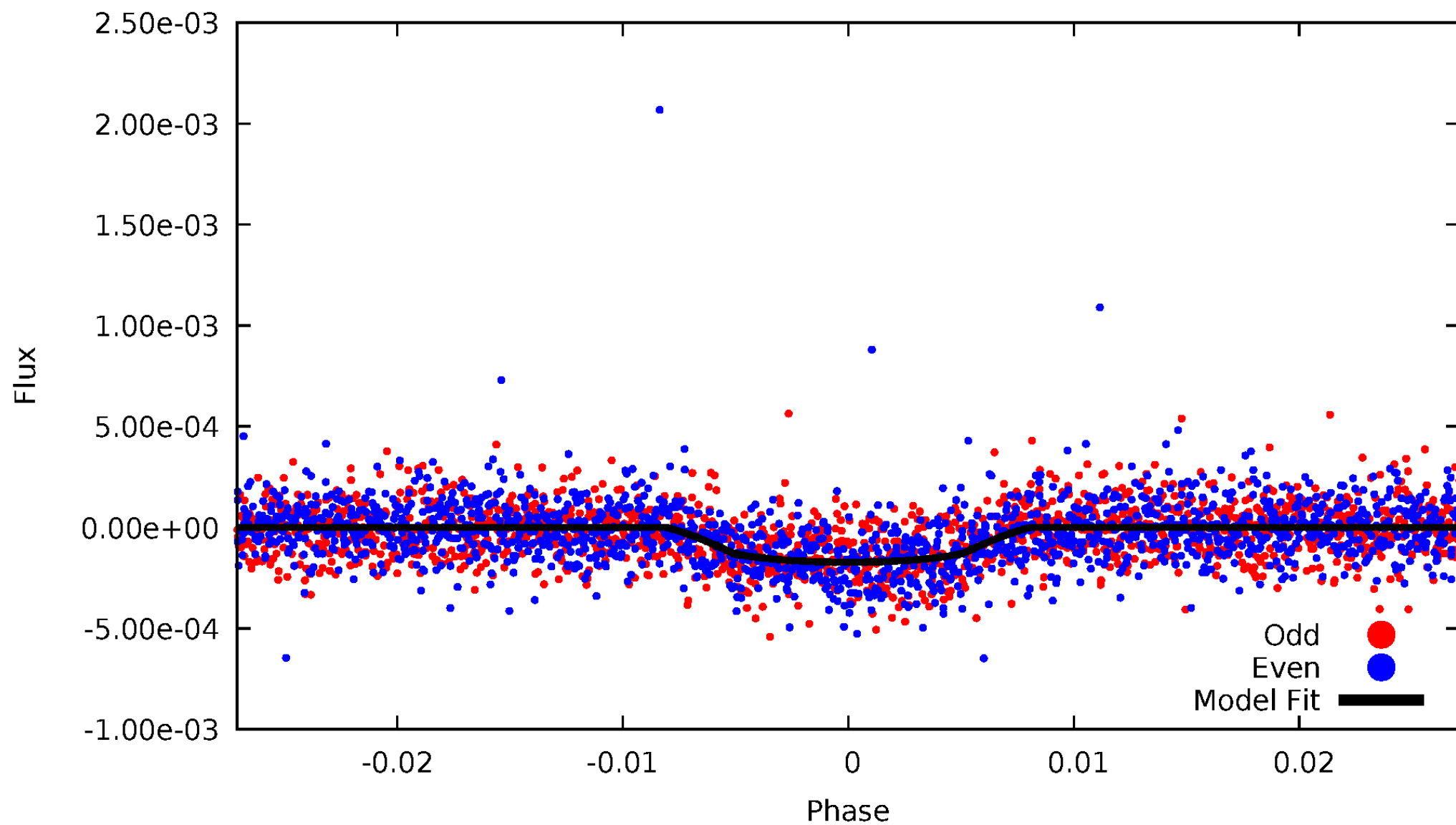


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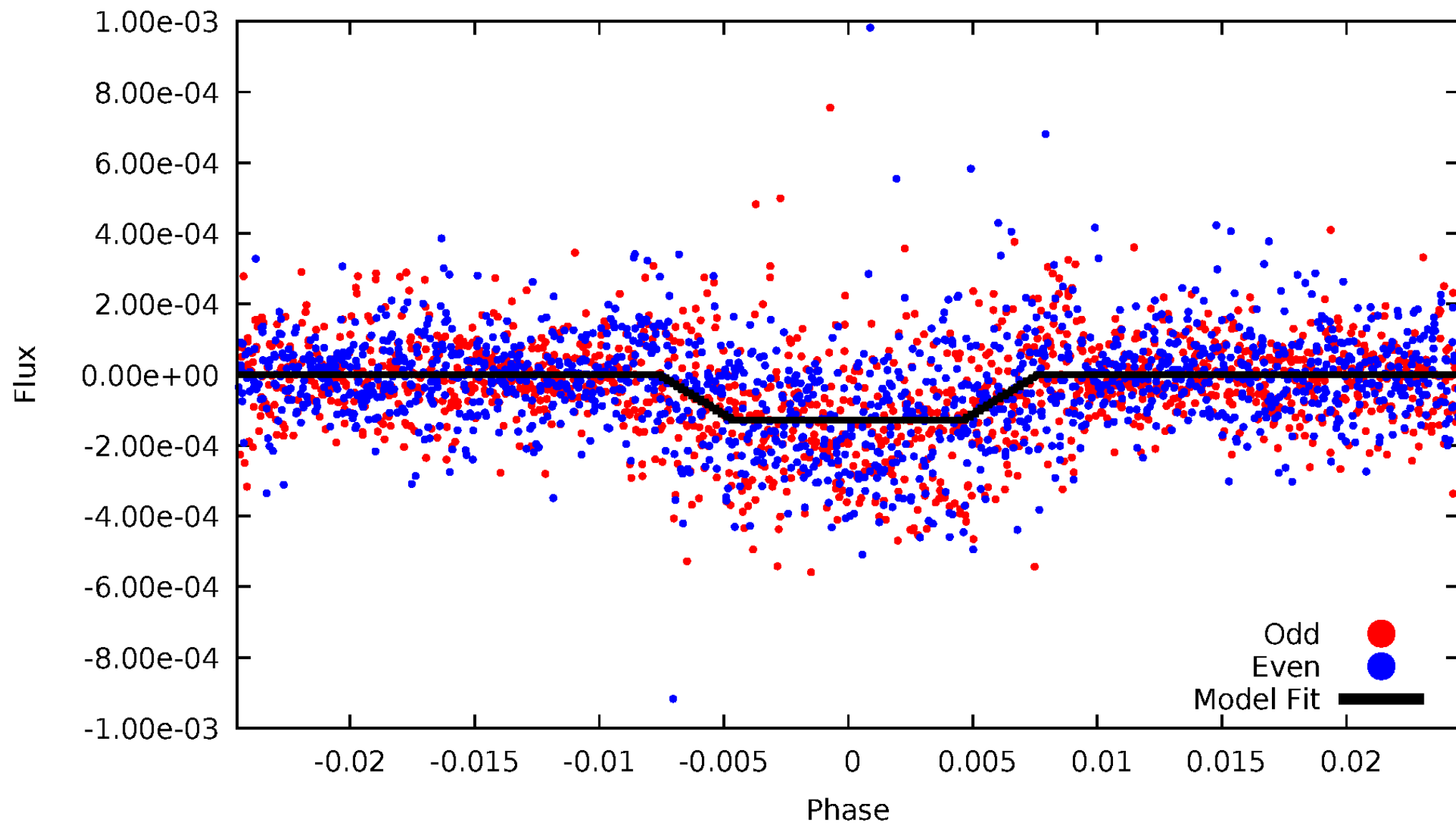
DV Odd/Even

TCE 005185897-02



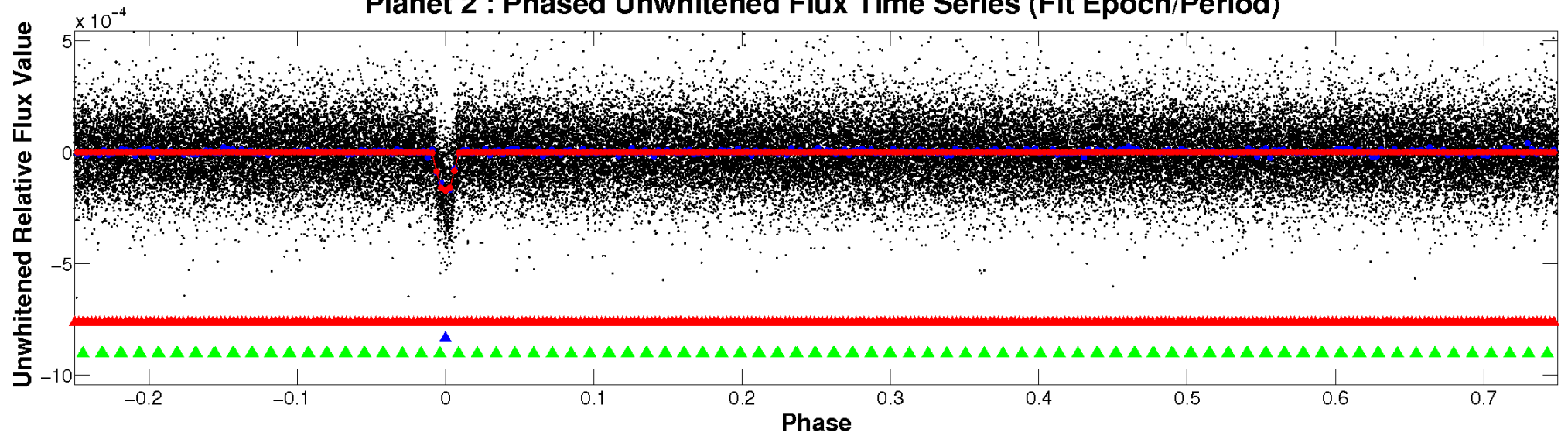
ALT Odd/Even

TCE 005185897-02

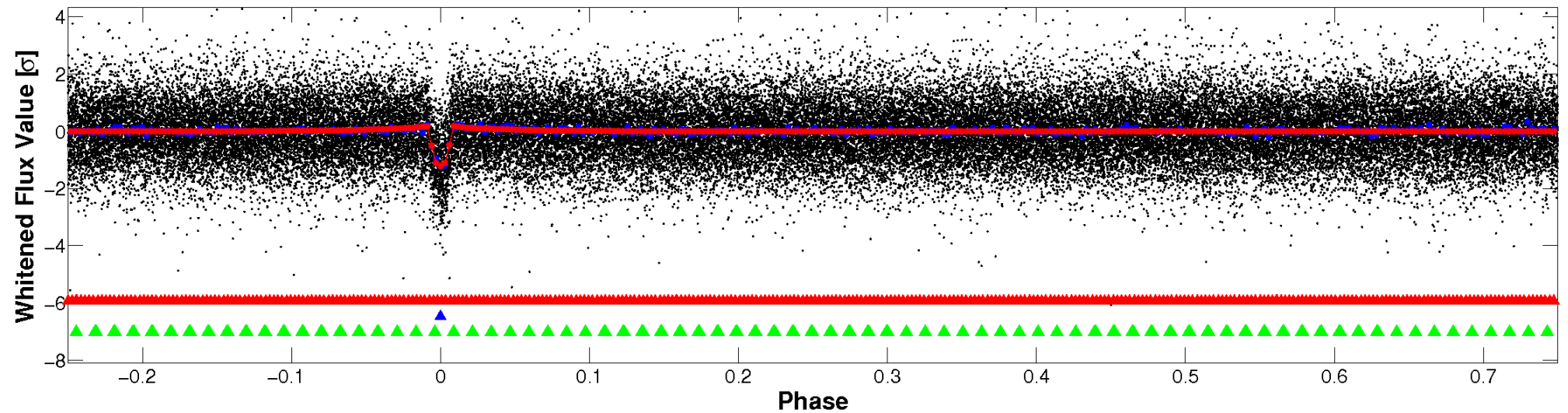


Non-Whitened Vs. Whitened Light Curve

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

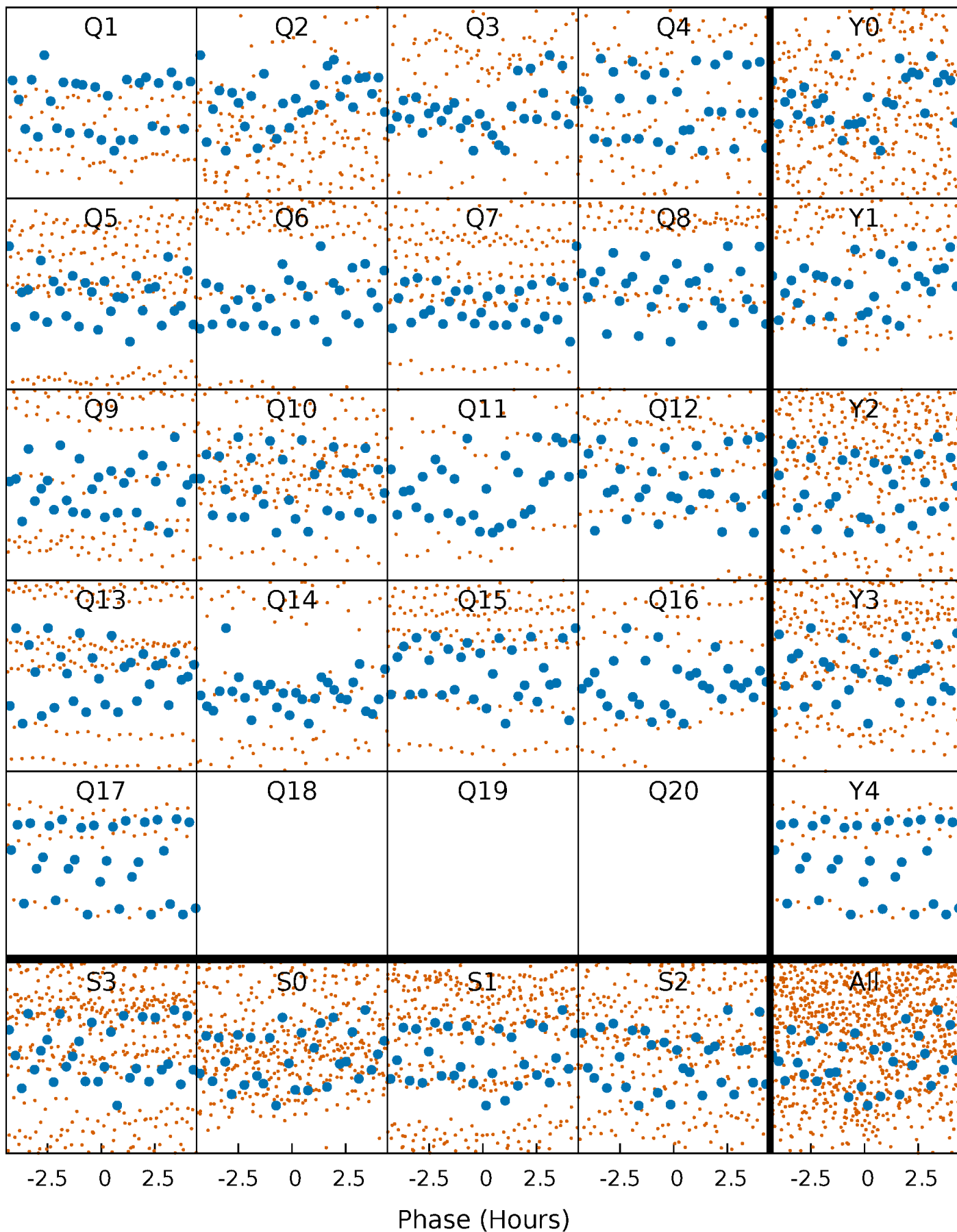


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



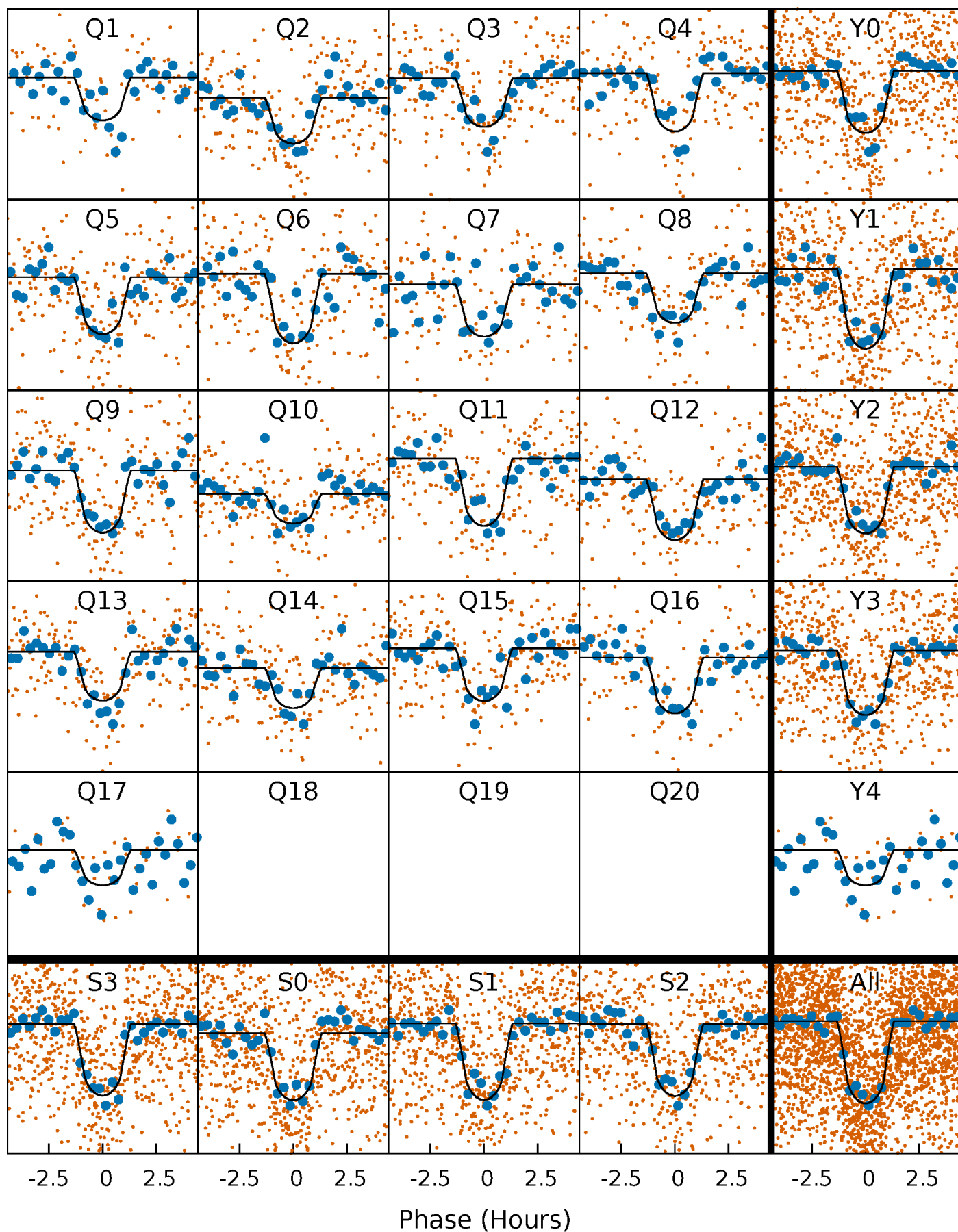
PDC Quarter-Phased Transit Curves

TCE 005185897-02 $P = 6.834402$ Days $T_0 = 136.860946$ (BKJD)



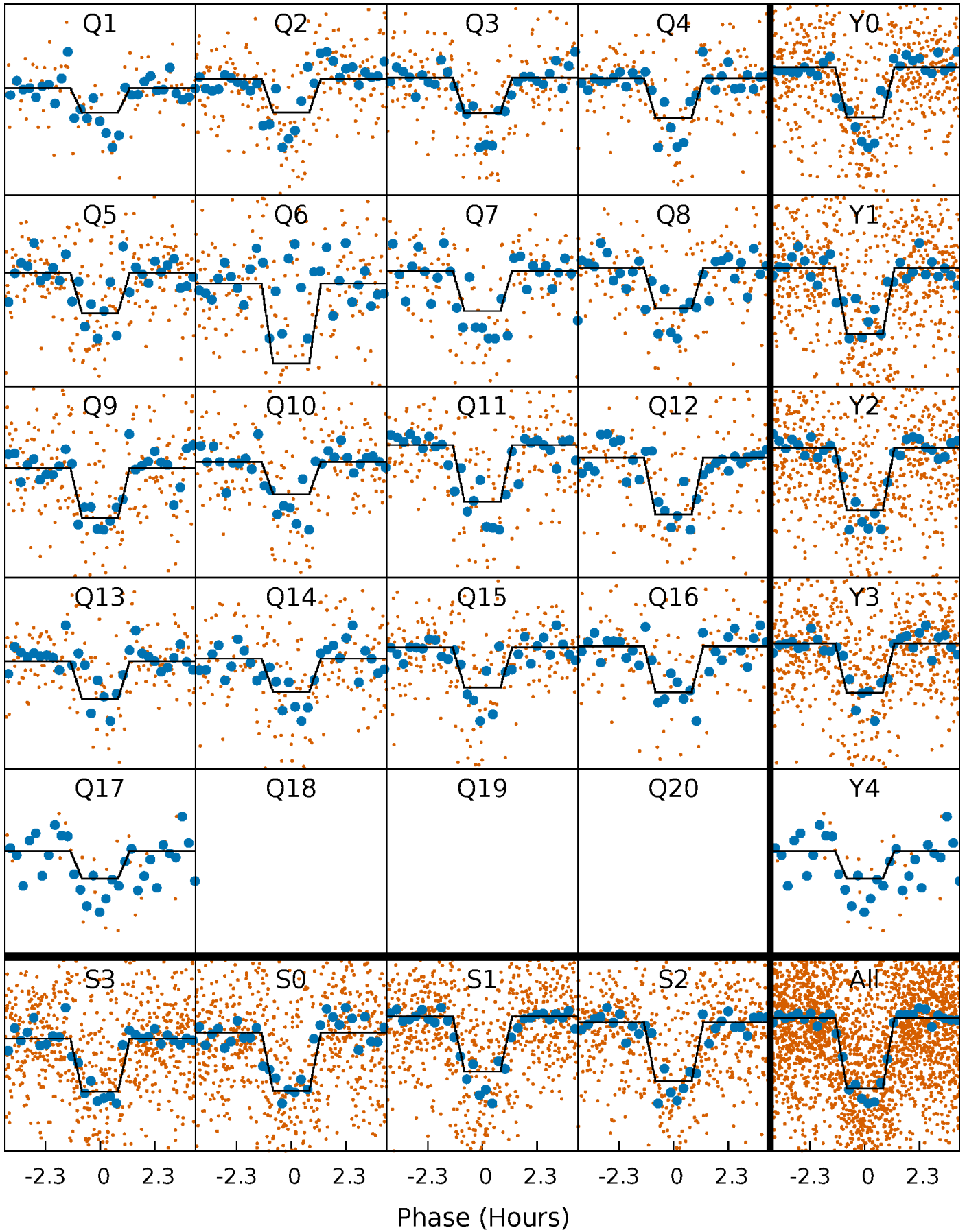
DV Quarter-Phased Transit Curves

TCE 005185897-02 P= 6.834402 Days $T_0=136.860946$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

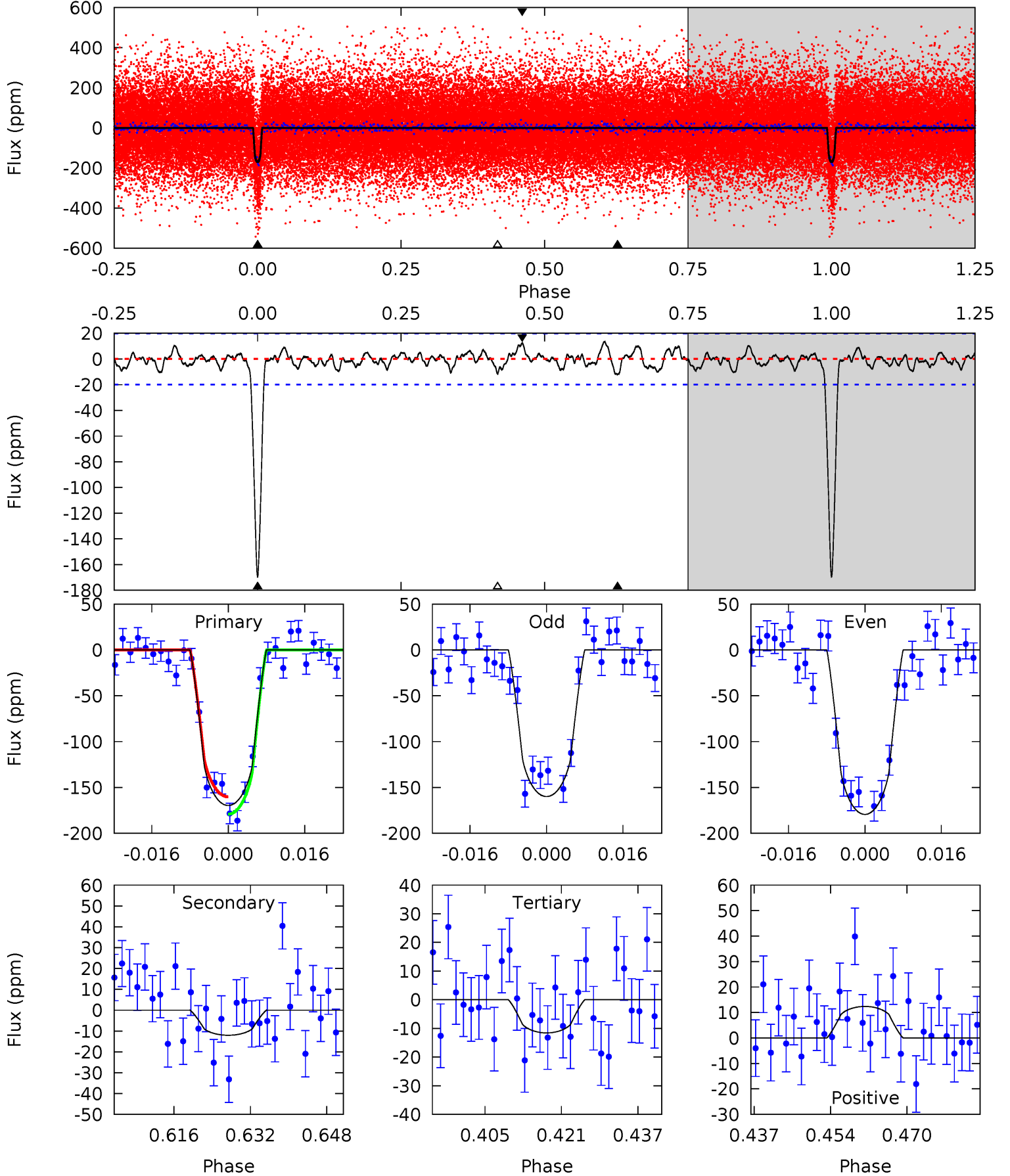
TCE 005185897-02 P= 6.834348 Days $T_0=136.865594$ (BKJD)



DV Model-Shift Uniqueness Test

005185897-02, P = 6.834402 Days, E = 130.026544 Days

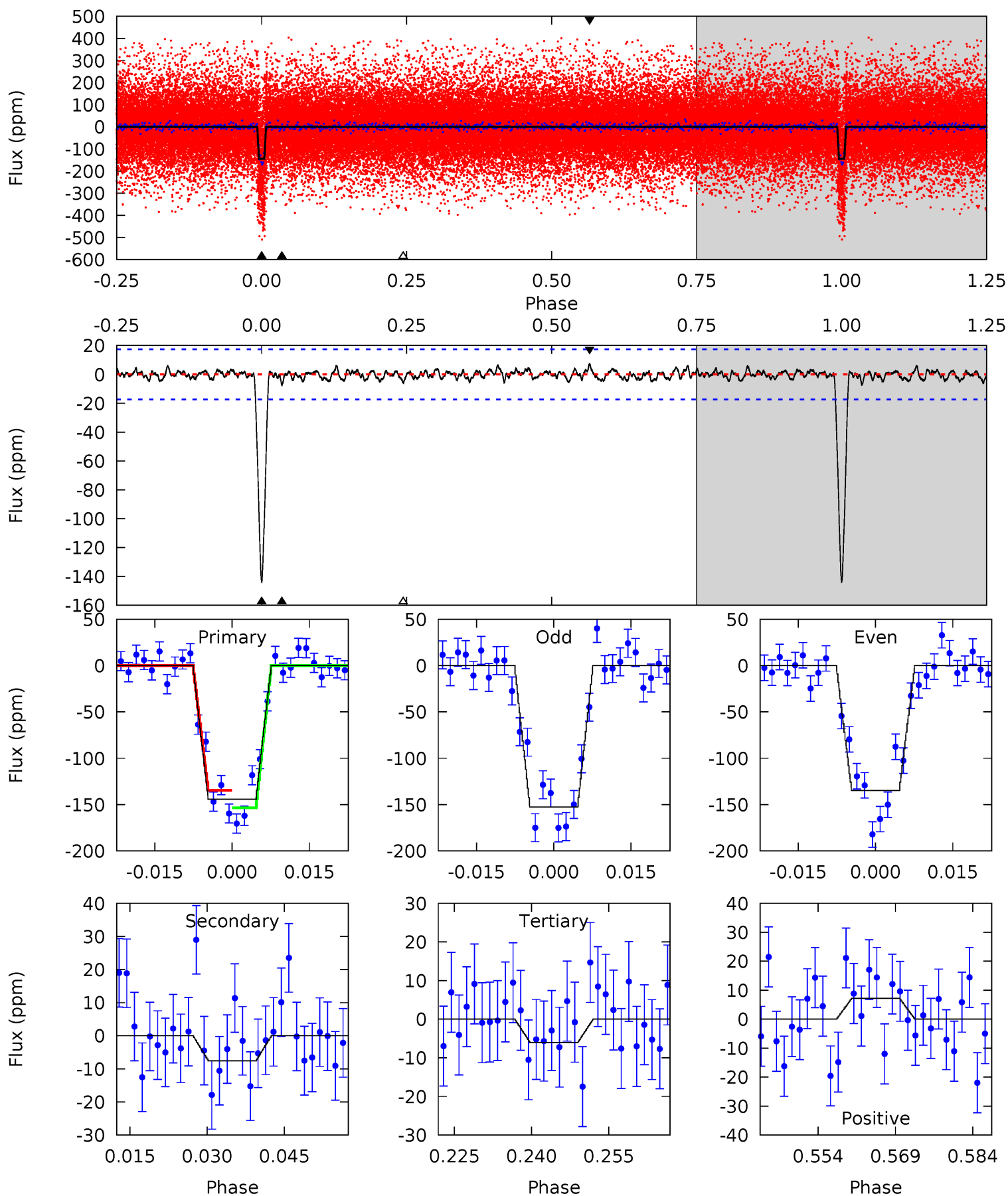
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
42.1	2.98	2.87	3.07	4.93	2.40	1.14	39.2	39.0	0.12	-0.09	2.42	1.01	0.07	2.36



Alt Model-Shift Uniqueness Test

005185897-02, P = 6.834348 Days, E = 130.031246 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
41.0	2.15	1.72	2.05	4.95	2.43	0.66	39.3	38.9	0.43	0.09	2.55	0.91	0.05	2.70



Stellar Parameters For KIC 005185897

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4498^{+90}_{-90}	$4.661^{+0.012}_{-0.042}$	$-0.080^{+0.150}_{-0.150}$	$0.635^{+0.045}_{-0.019}$	$0.698^{+0.028}_{-0.042}$	$3.840^{+0.200}_{-0.705}$
	+2%/-2%	+0%/-1%	+188%/-188%	+7%/-3%	+4%/-6%	+5%/-18%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 005185897-02 / KOI 2693.03

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-12 ± 4	$0.91^{+0.33}_{-0.32}$	896^{+21}_{-20}	2920^{+412}_{-273}	30^{+43}_{-15}
Alt.	-8 ± 4	$0.80^{+0.35}_{-0.32}$	898^{+23}_{-21}	2838^{+470}_{-334}	24^{+44}_{-14}

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 $A_{obs} \gg 1.0$

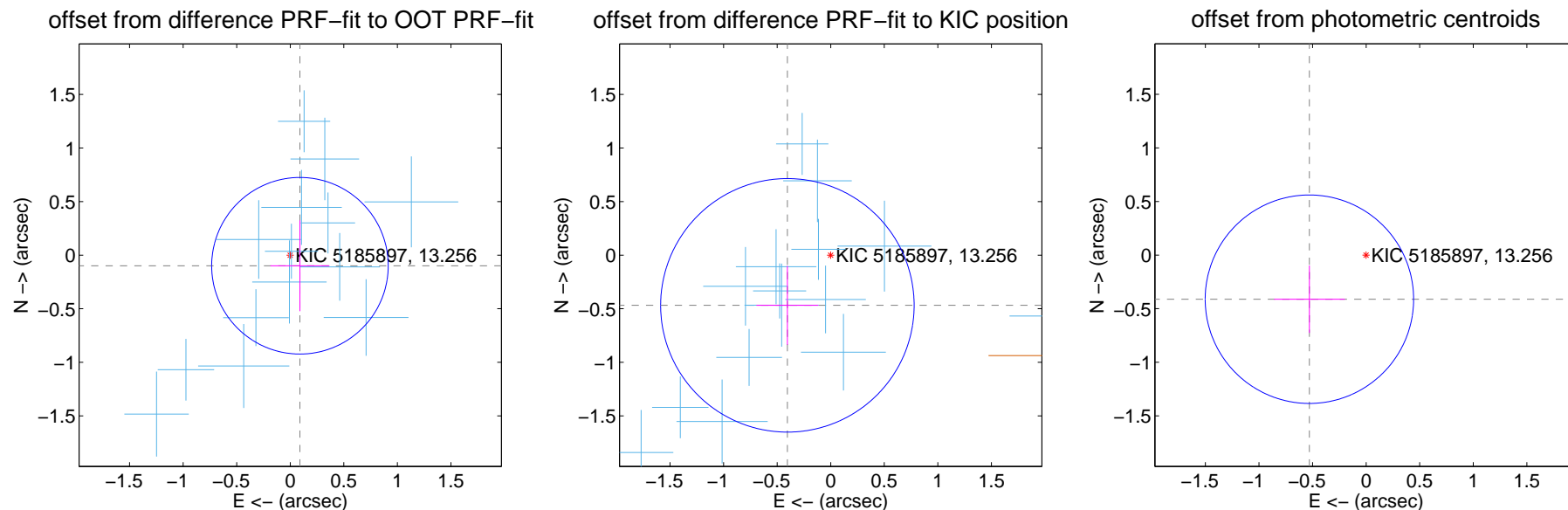
DV Centroid Data

Supplemental centroid analysis for 005185897-02. Kepler magnitude: 13.26. Transit SNR 28.62

There are 15 quarters with good PRF difference image offsets

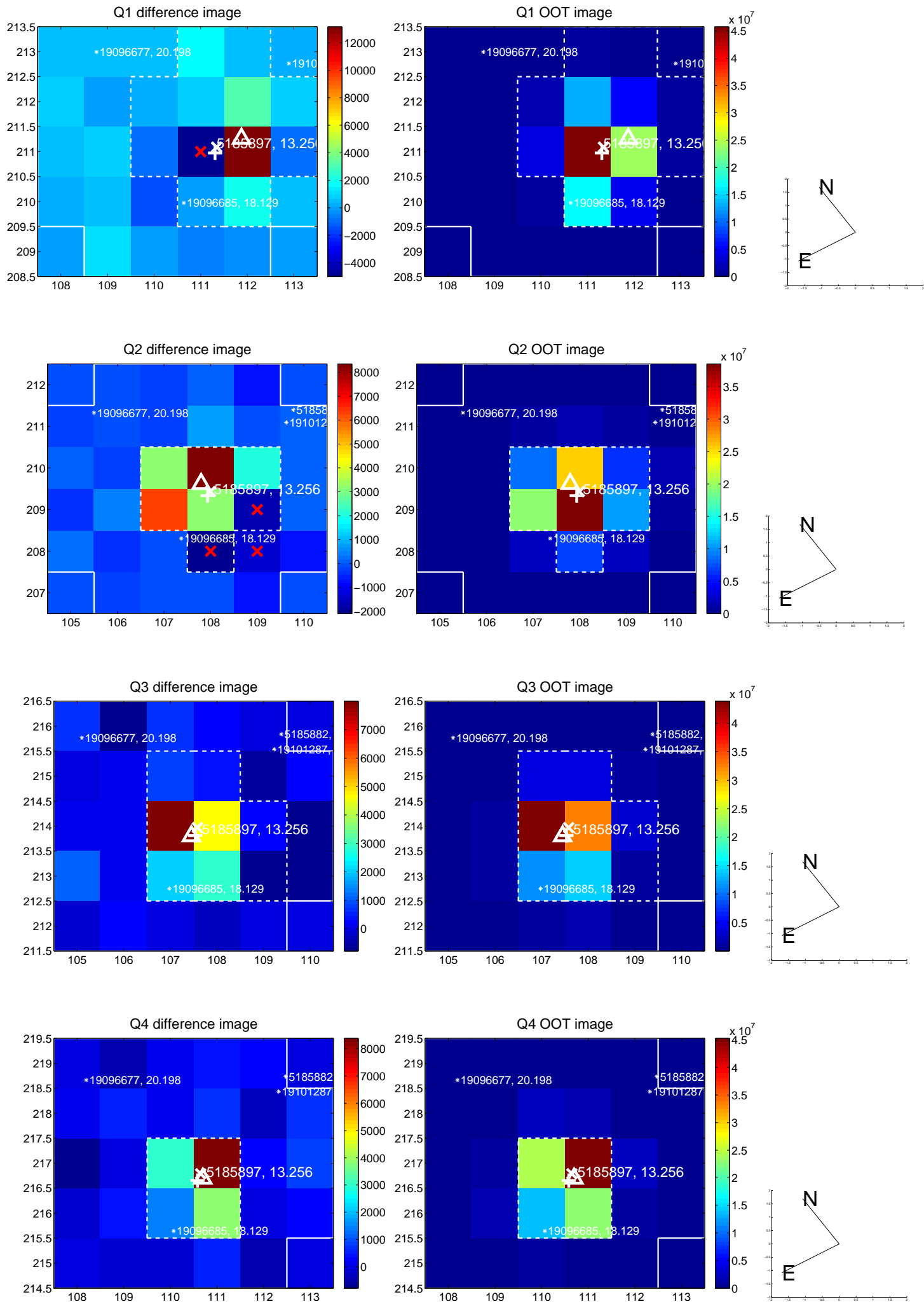
The direct PRF centroid is offset from the target star catalog position by about 0.67 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.134 ± 0.275	0.49	-0.090 ± 0.275	-0.099 ± 0.424
PRF-fit source offset from KIC position	0.619 ± 0.394	1.57	0.404 ± 0.290	-0.468 ± 0.368
photometric centroid source offset	0.67 ± 0.32	2.07	0.53 ± 0.33	-0.41 ± 0.31

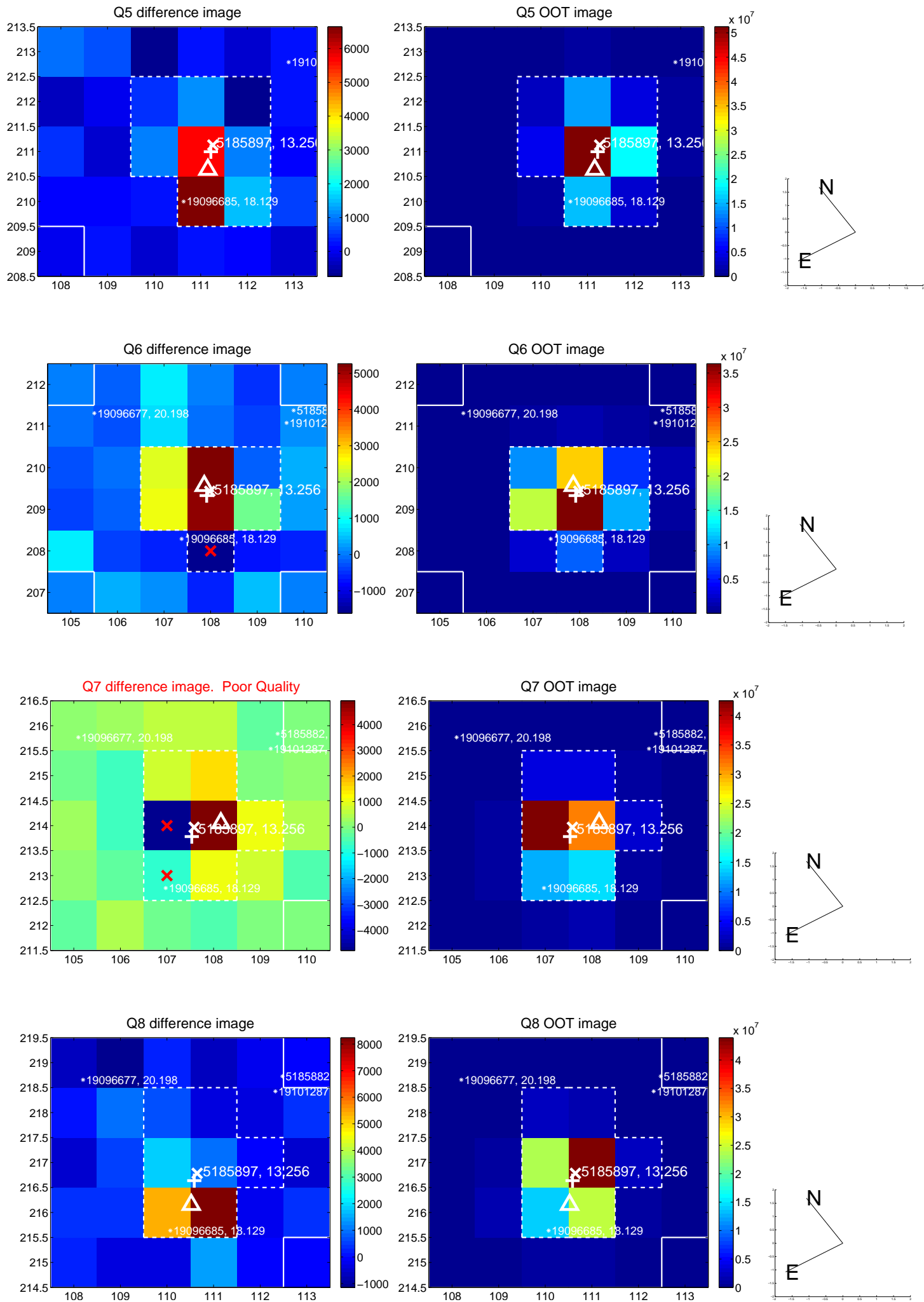


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

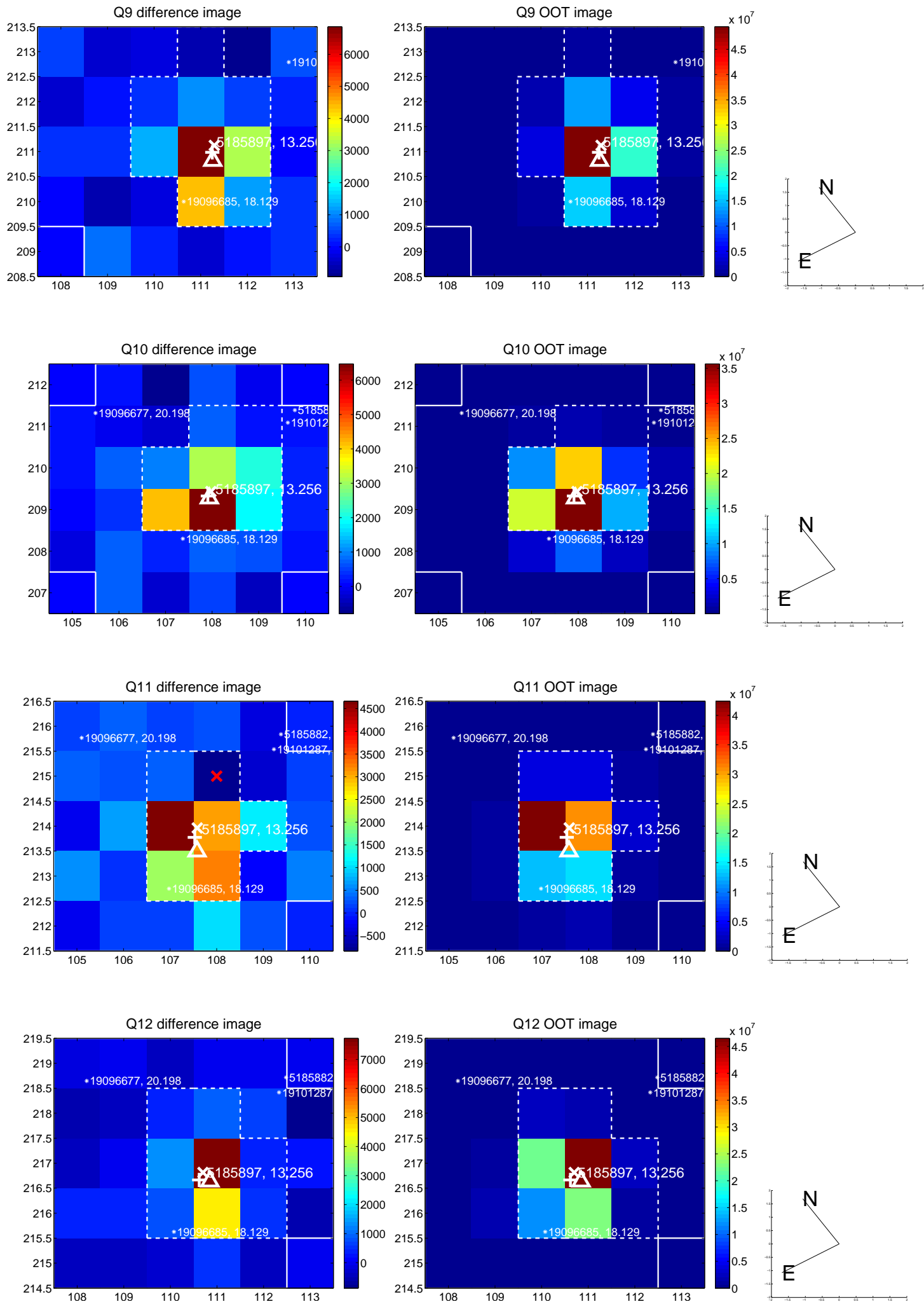
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



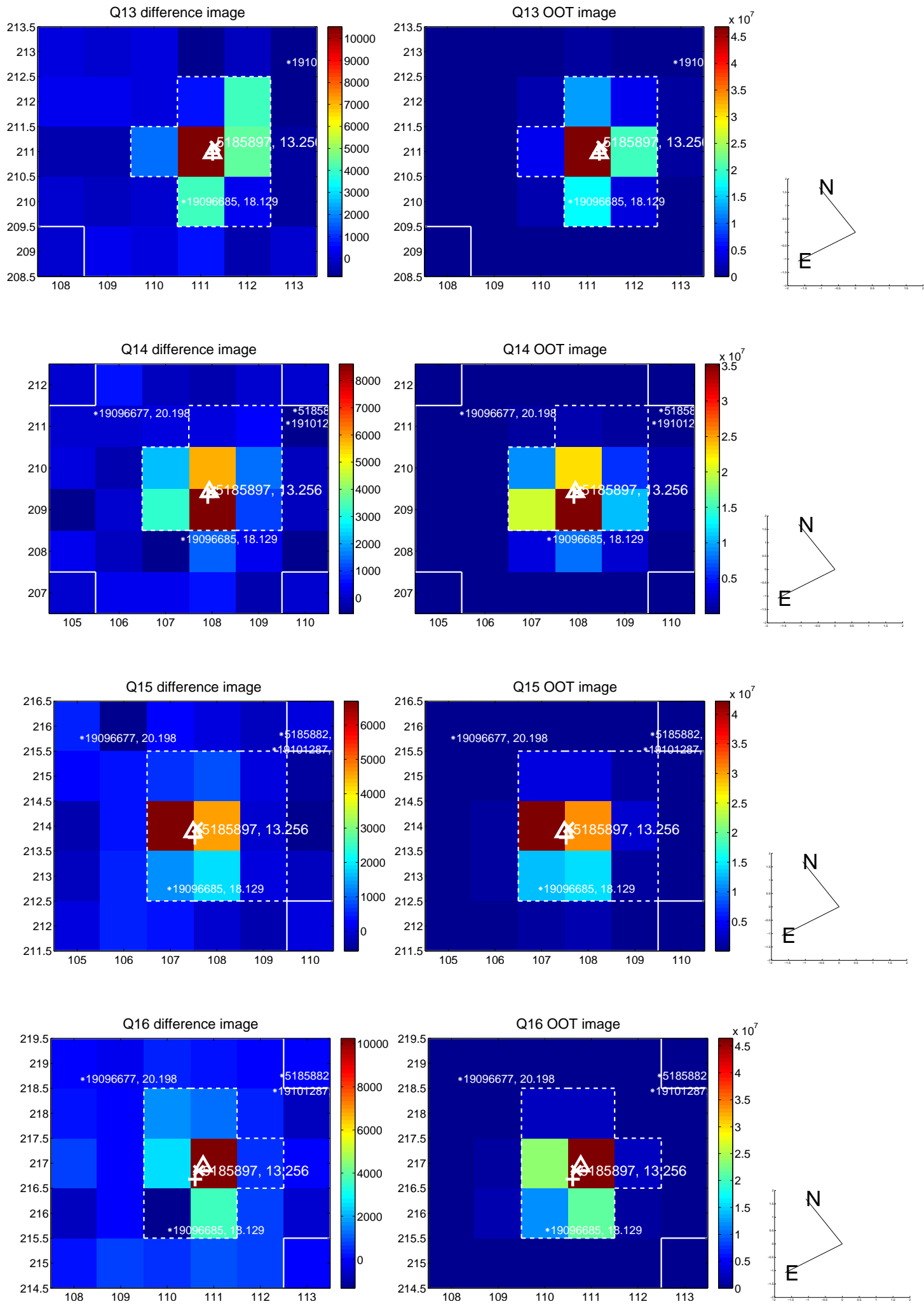
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



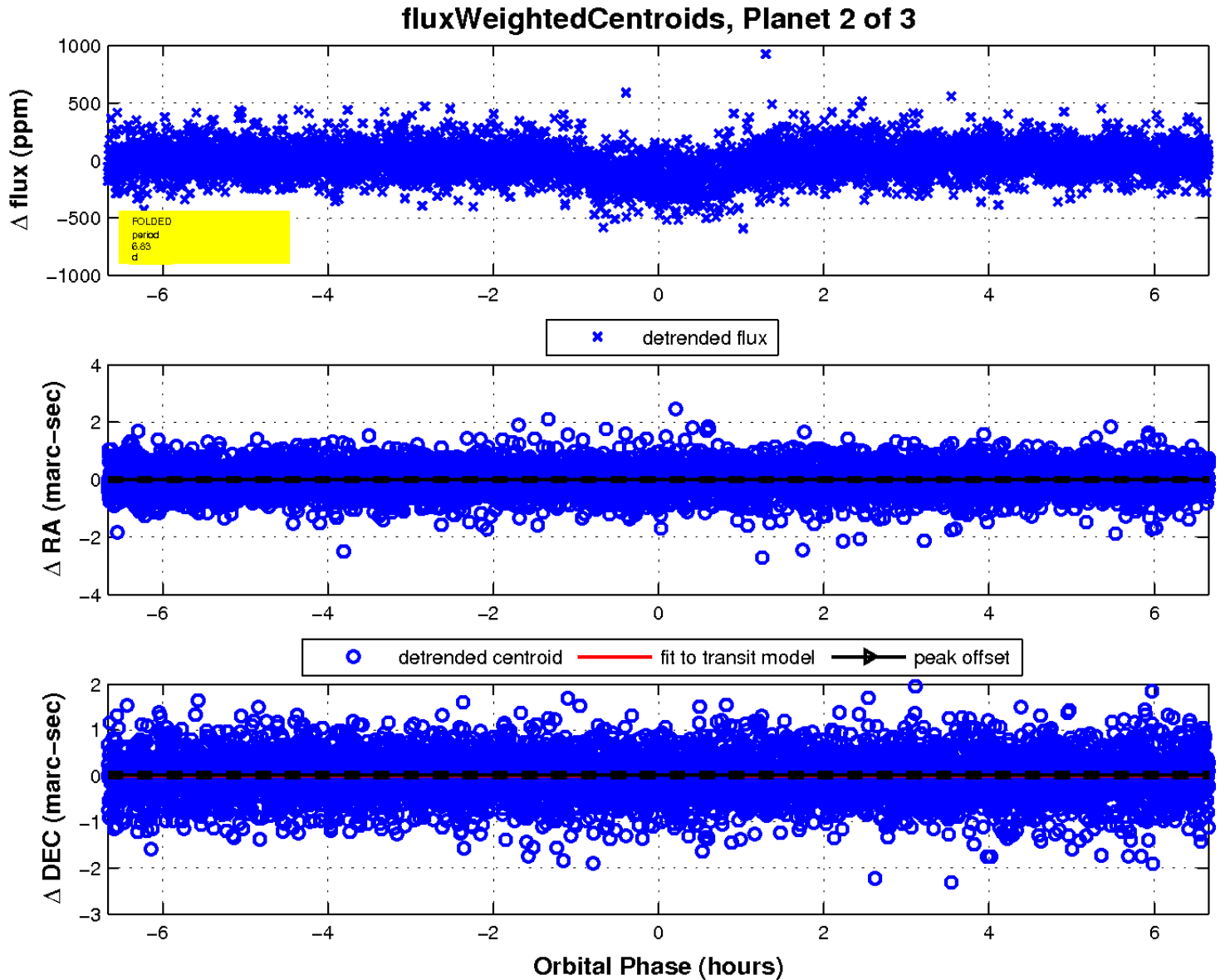
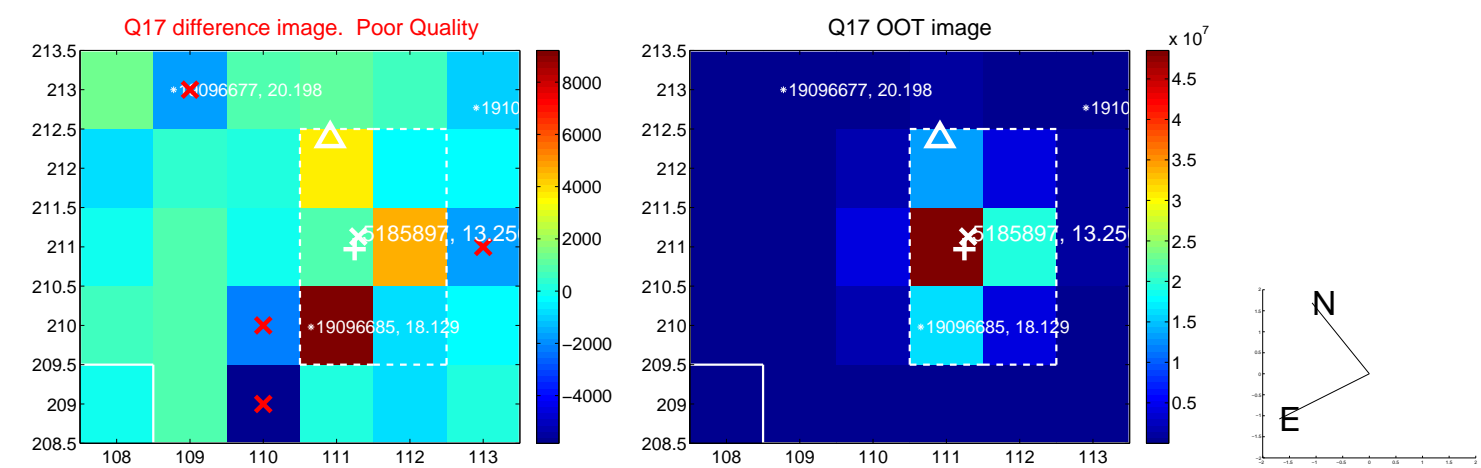
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

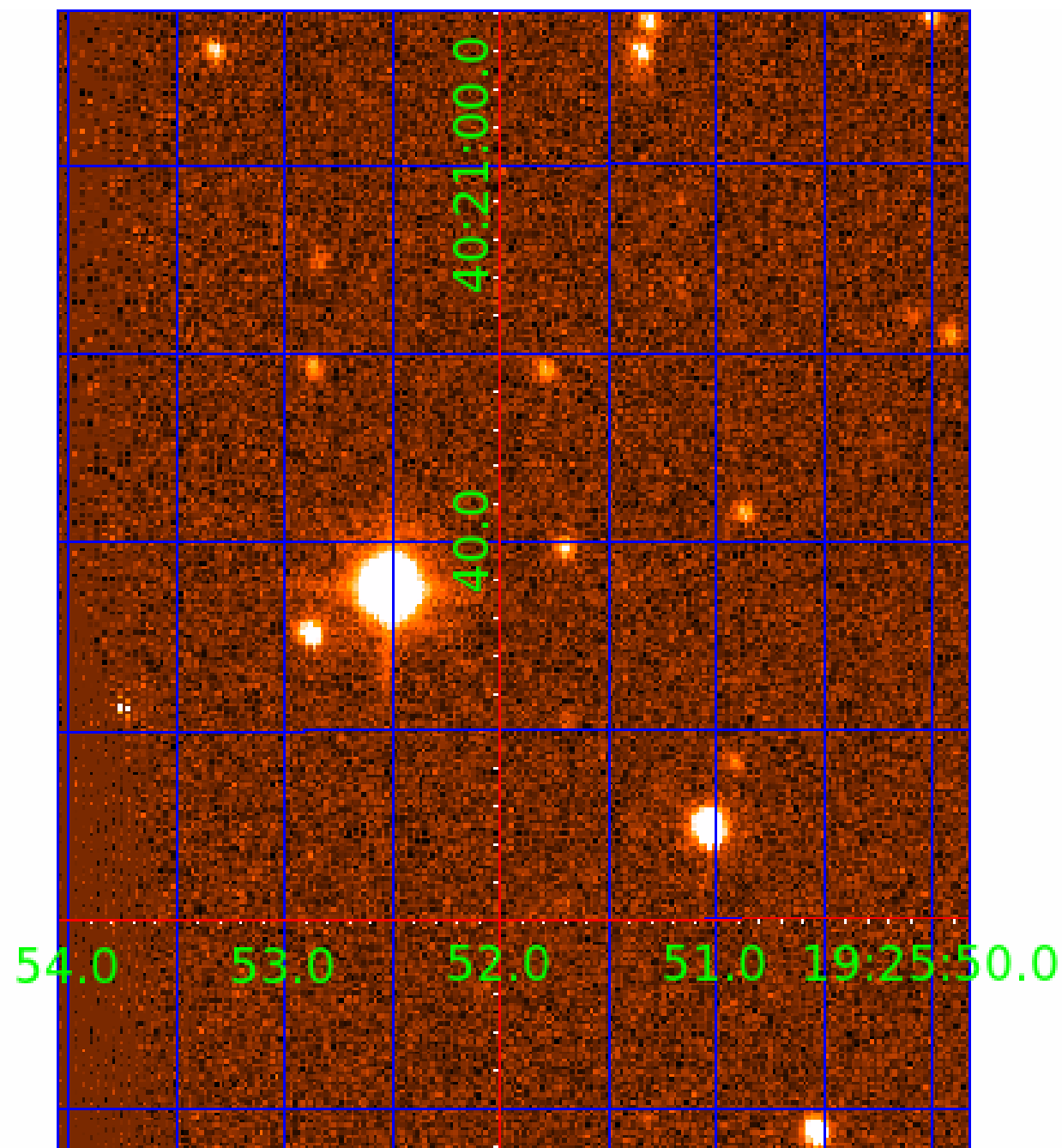


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005185897

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})
005185897-01	OBS	2693.01	4.081399	133.861352	169.7	2.333	32.8	37.6	0.64	4498	1.00	76.99
005185897-02	OBS	2693.03	6.834402	136.860946	172.7	2.222	24.5	28.6	0.64	4498	0.90	38.72
005185897-03	OBS	2693.02	11.419444	142.115952	155.2	3.334	20.6	22.4	0.64	4498	0.97	19.53

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005185897-01	OBS	PC	1.00	0	0	0	0	CENT_KIC_POS
005185897-02	OBS	PC	0.99	0	0	0	0	CENT_KIC_POS
005185897-03	OBS	PC	0.99	0	0	0	0	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.

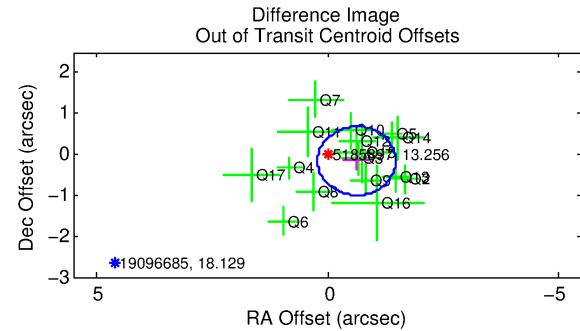
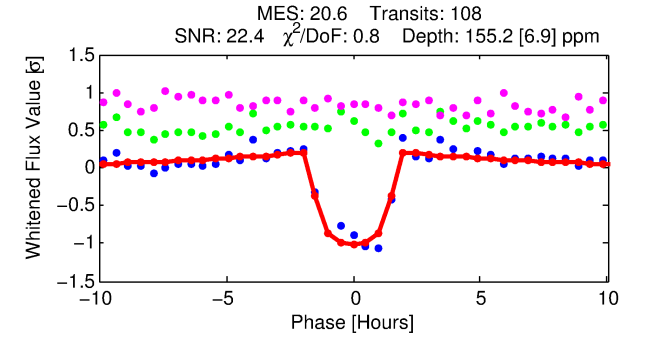
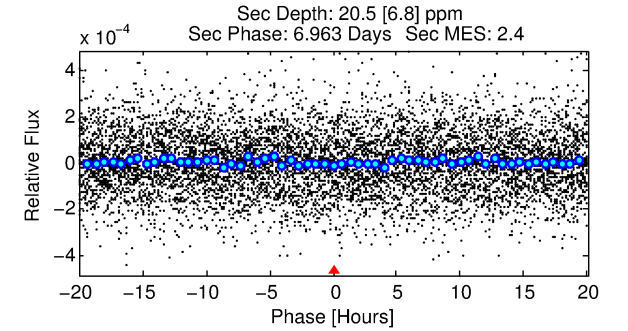
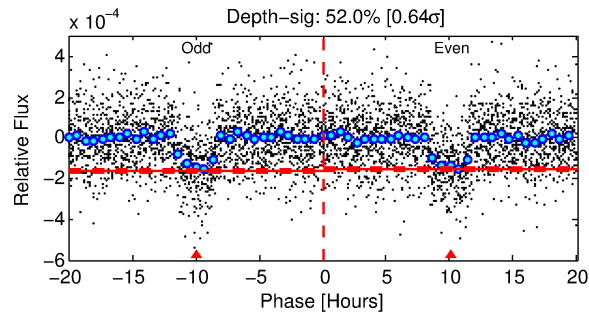
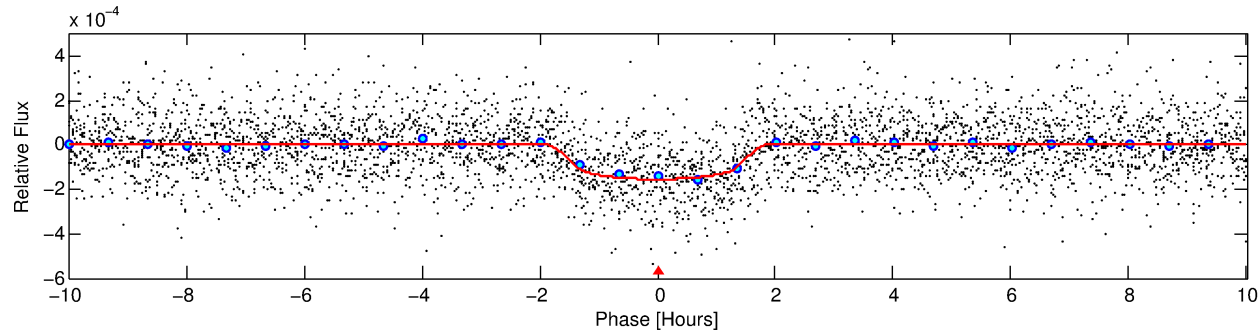
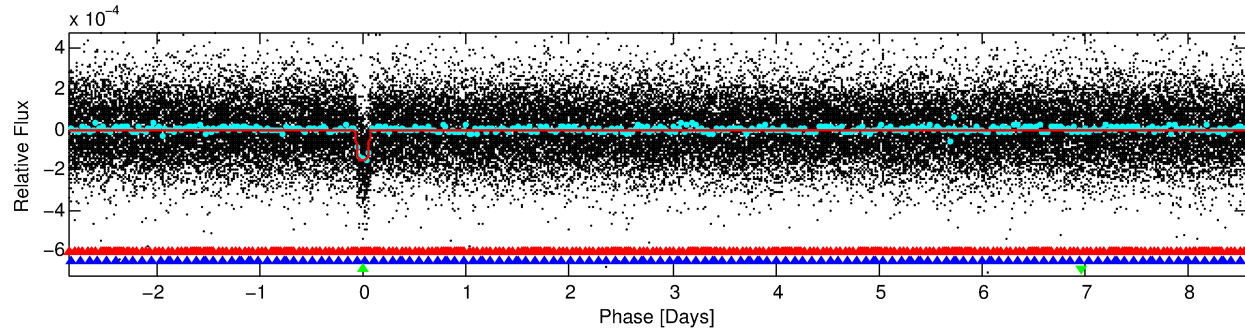
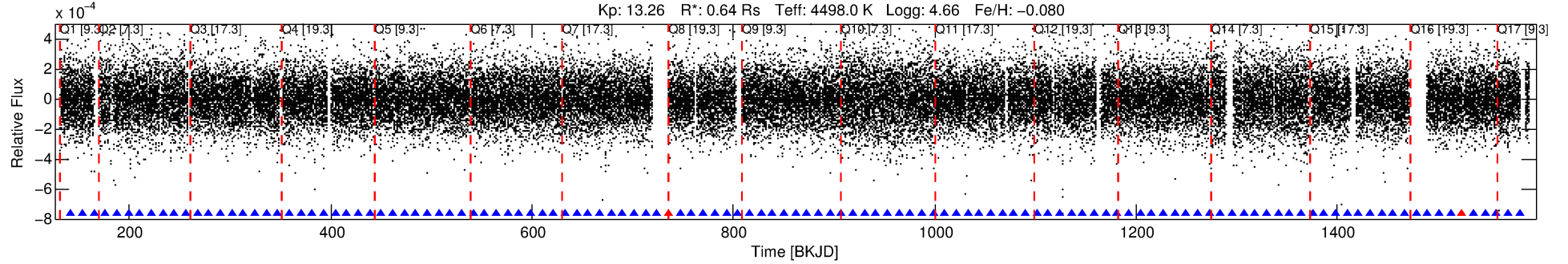
Ephemeris Match Information For 005185897-03

No Significant Match Found

DV One-Page Summary

KIC: 5185897 Candidate: 3 of 3 Period: 11.419 d
KOI: K02693.02 Name: Kepler-398c Corr: 0.985

Kp: 13.26 R*: 0.64 Rs Teff: 4498.0 K Logg: 4.66 Fe/H: -0.080



DV Fit Results:

Period = 11.41944 [0.00004] d
Epoch = 142.1160 [0.0030] BKJD
Rp/R* = 0.0141 [0.0041]
a/R* = 12.34 [13.26]
b = 0.90 [0.24]
Seff = 19.53 [2.21]
Teq = 536 [15] K
Rp = 0.97 [0.29] Re
a = 0.0870 [0.0050] AU
Ag = 90.16 [60.37] [1.48σ]
Teff = 2554 [428] K [4.72σ]

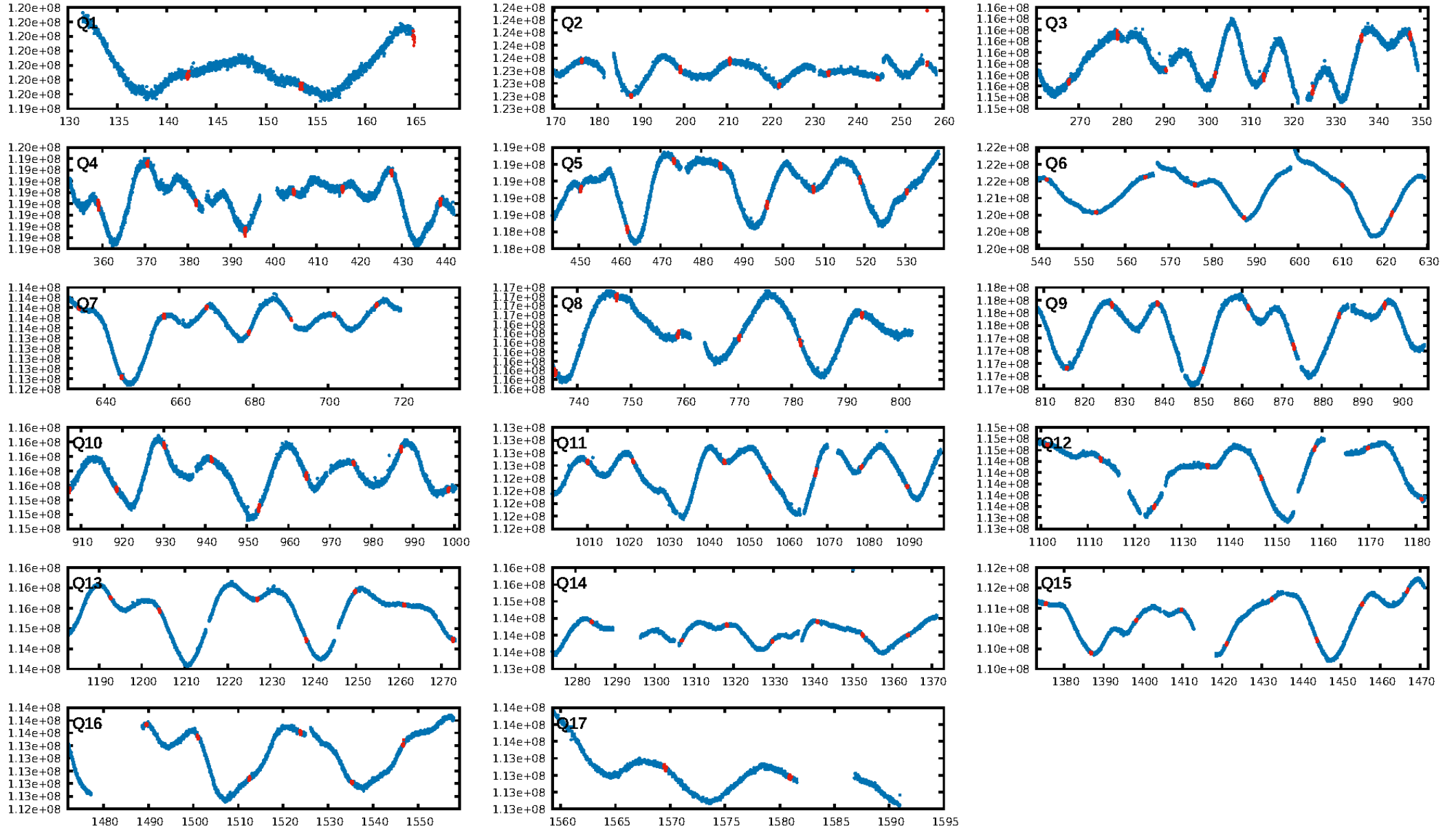
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [27.47σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 98.8%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.38e-87
RollingBand-fgt: 0.98 [102/104]
GhostDiagnostic-chr: 3.083
Centroid-sig: 0.1%
Centroid-so: 1.491 arcsec [3.82σ]
OotOffset-rm: 0.647 arcsec [2.31σ]
KicOffset-rm: 0.509 arcsec [2.50σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 1.00 [16/16]
DiffImageOverlap-fno: 1.00 [17/17]

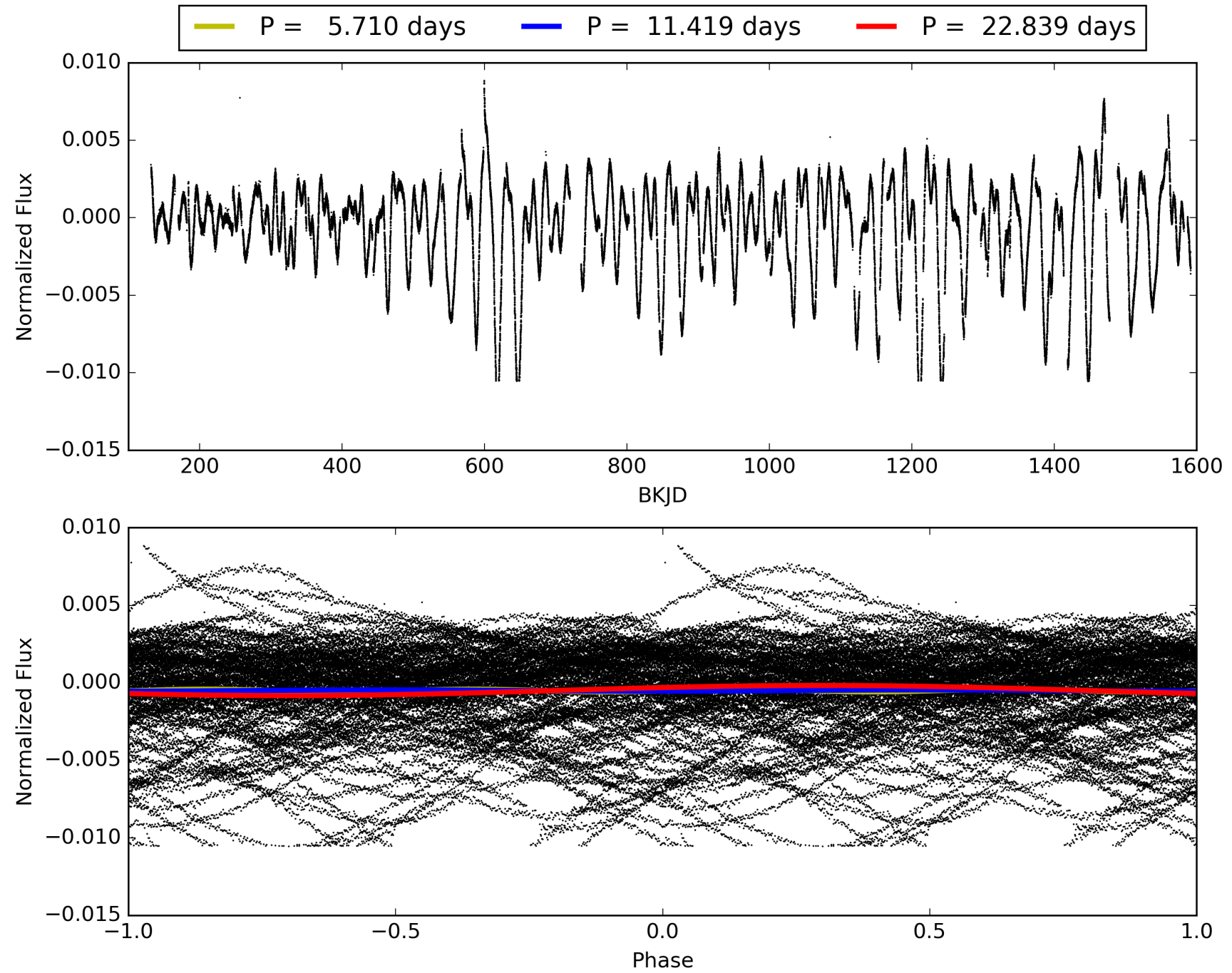
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 15:30:38 Z

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

TCE 005185897-03, PDC Light Curves

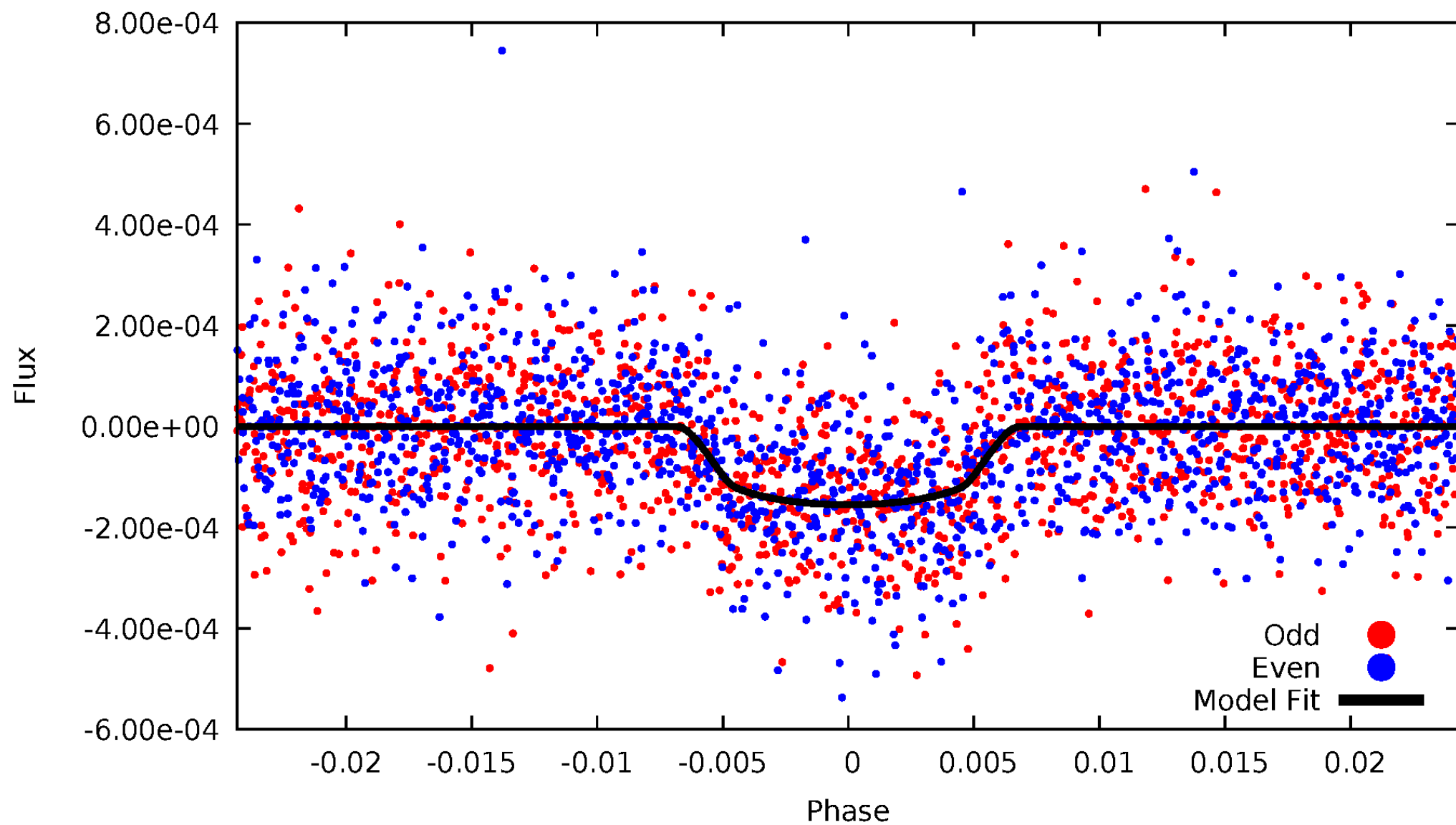


TCE 005185897-03



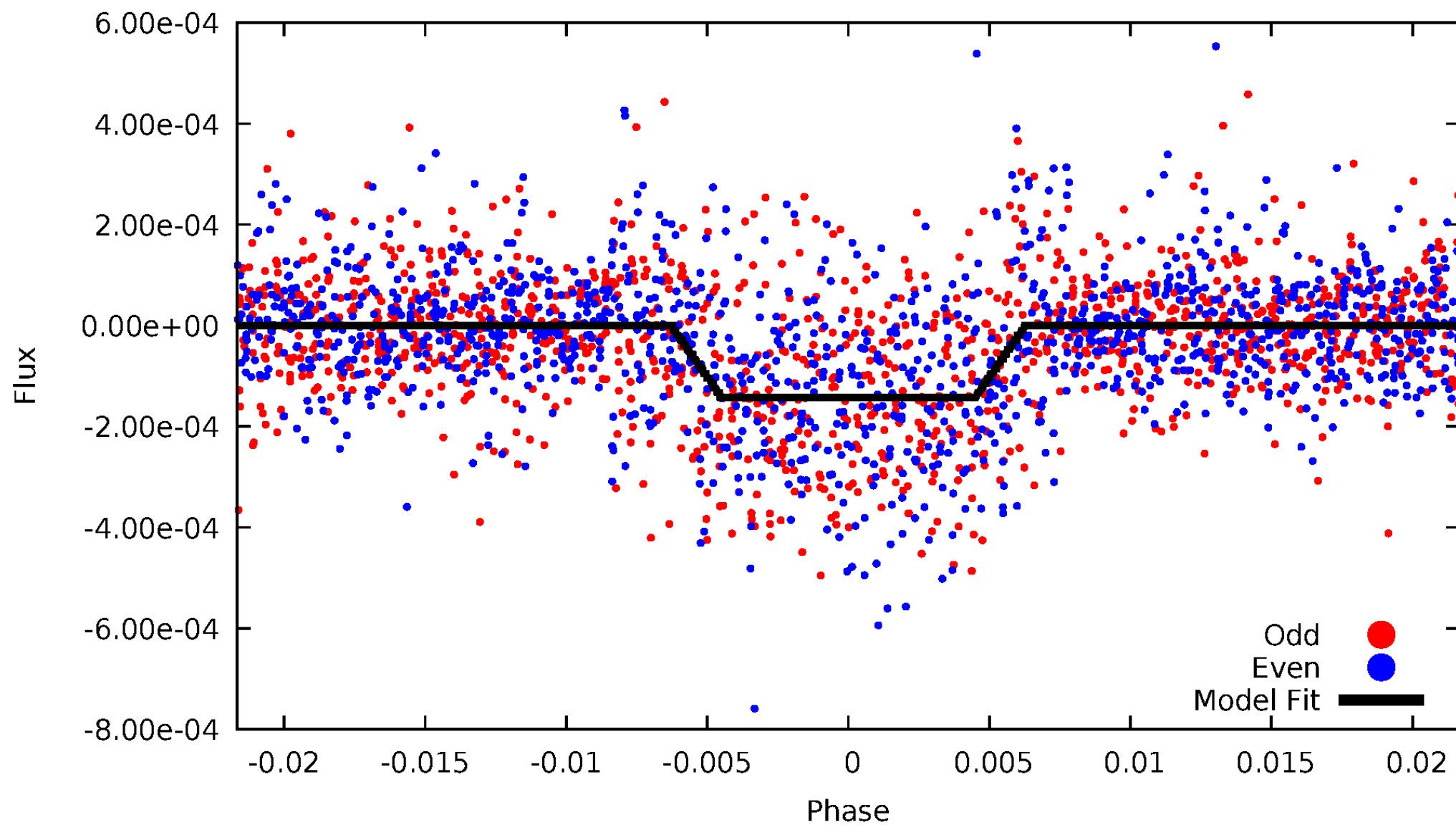
DV Odd/Even

TCE 005185897-03

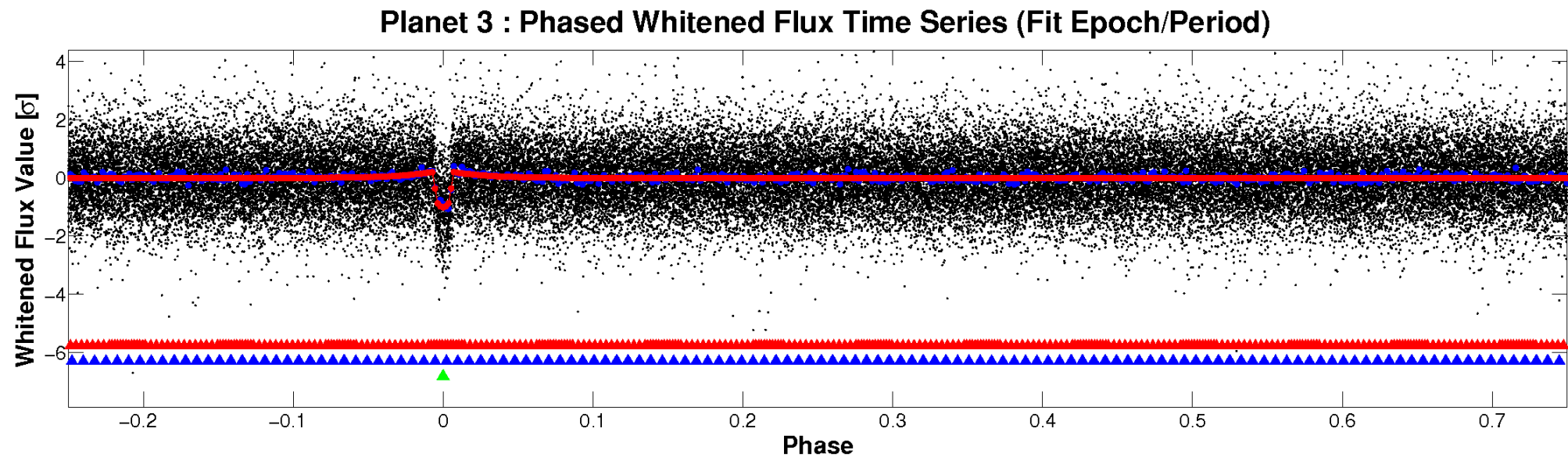
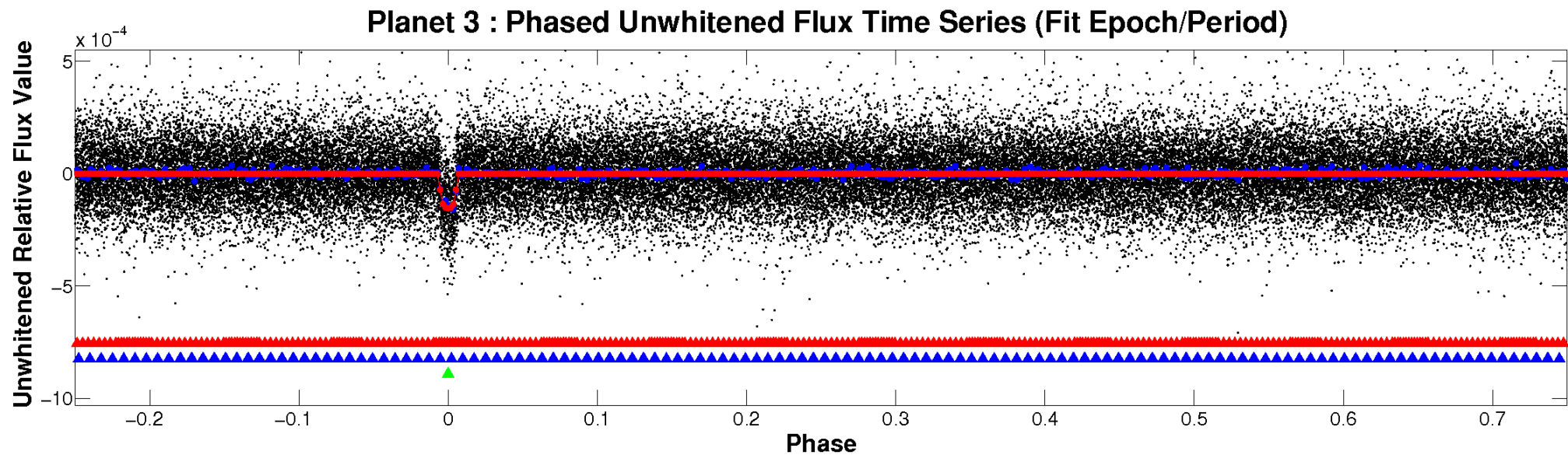


ALT Odd/Even

TCE 005185897-03

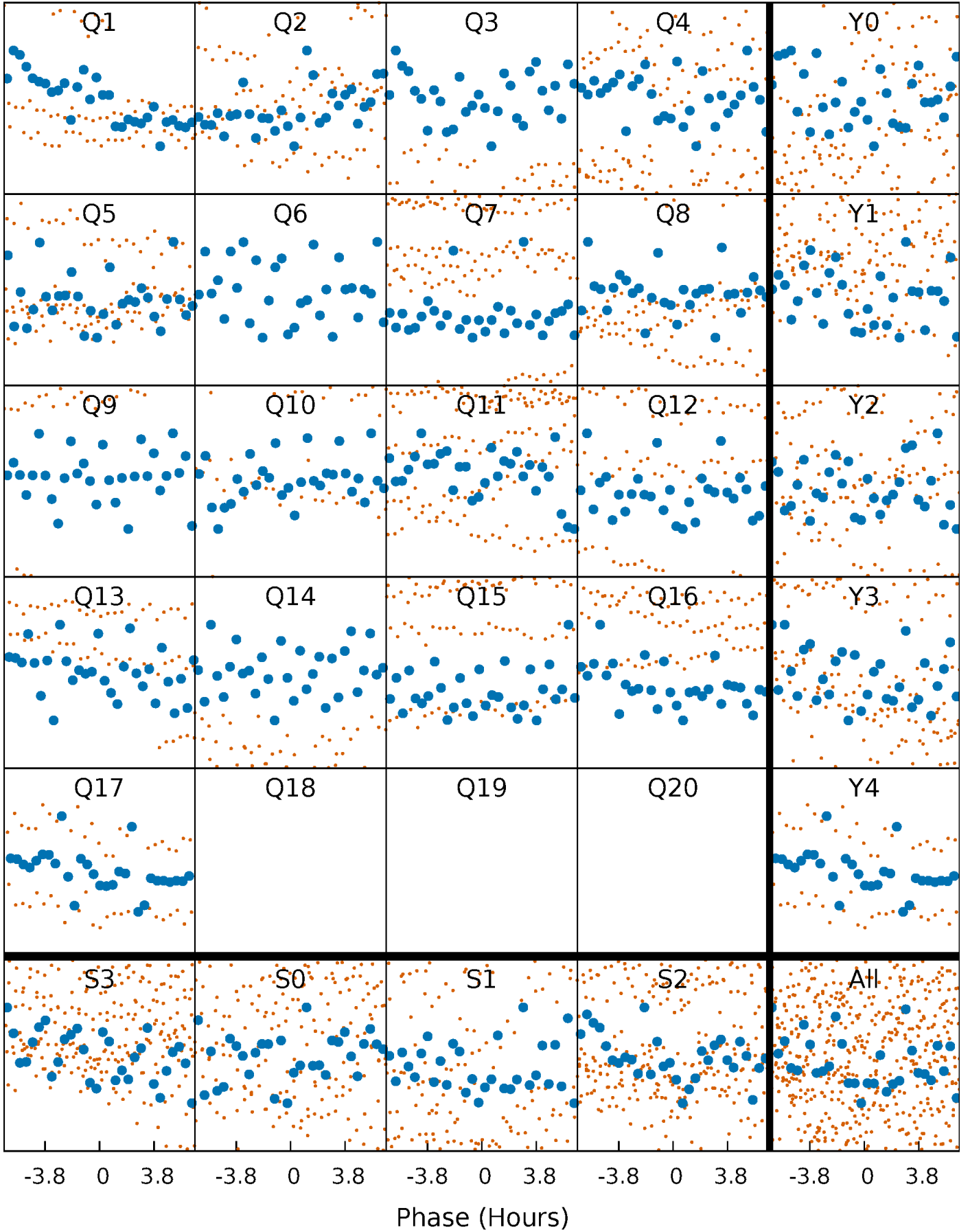


Non-Whitened Vs. Whitened Light Curve



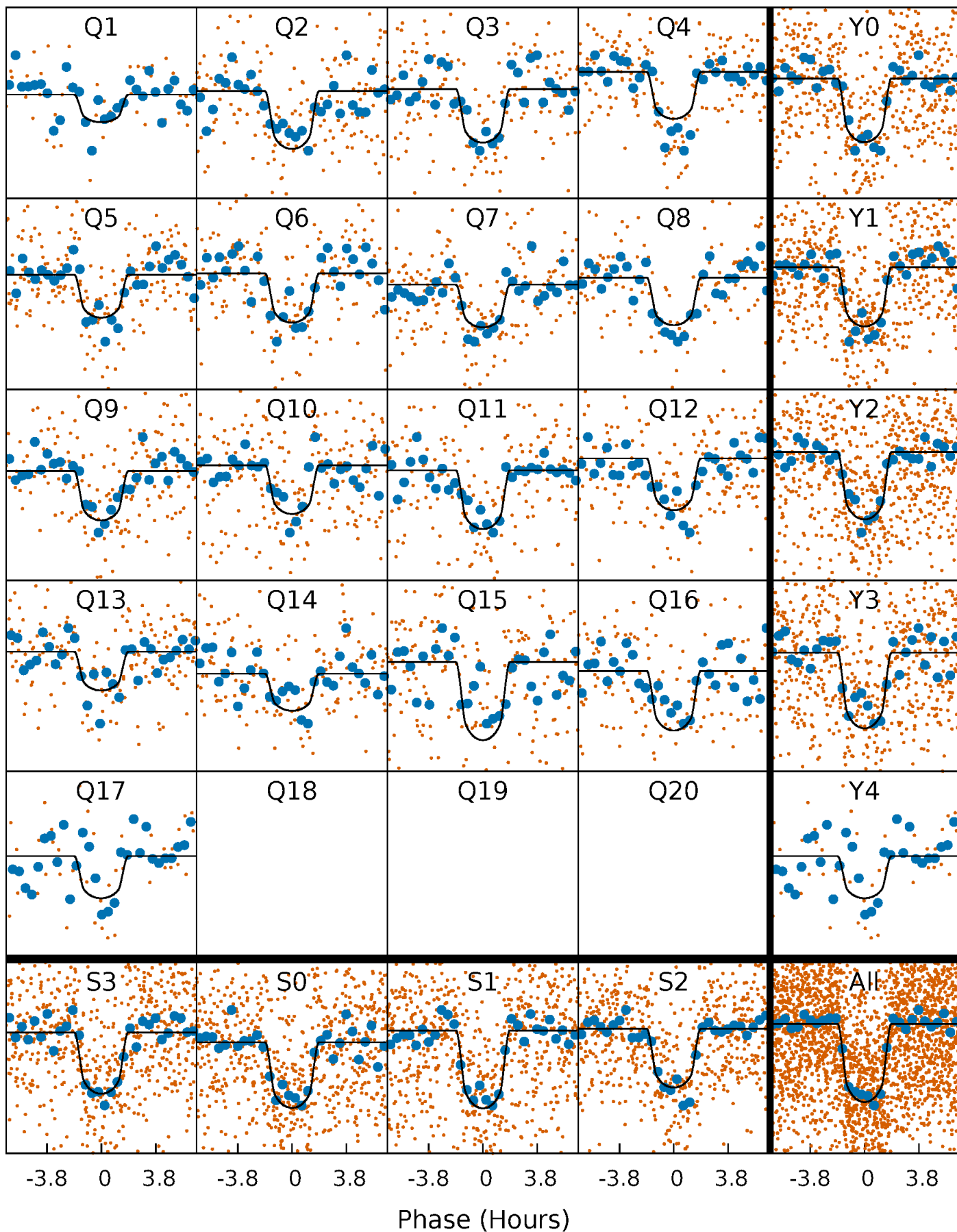
PDC Quarter-Phased Transit Curves

TCE 005185897-03 P= 11.419444 Days $T_0=142.115952$ (BKJD)



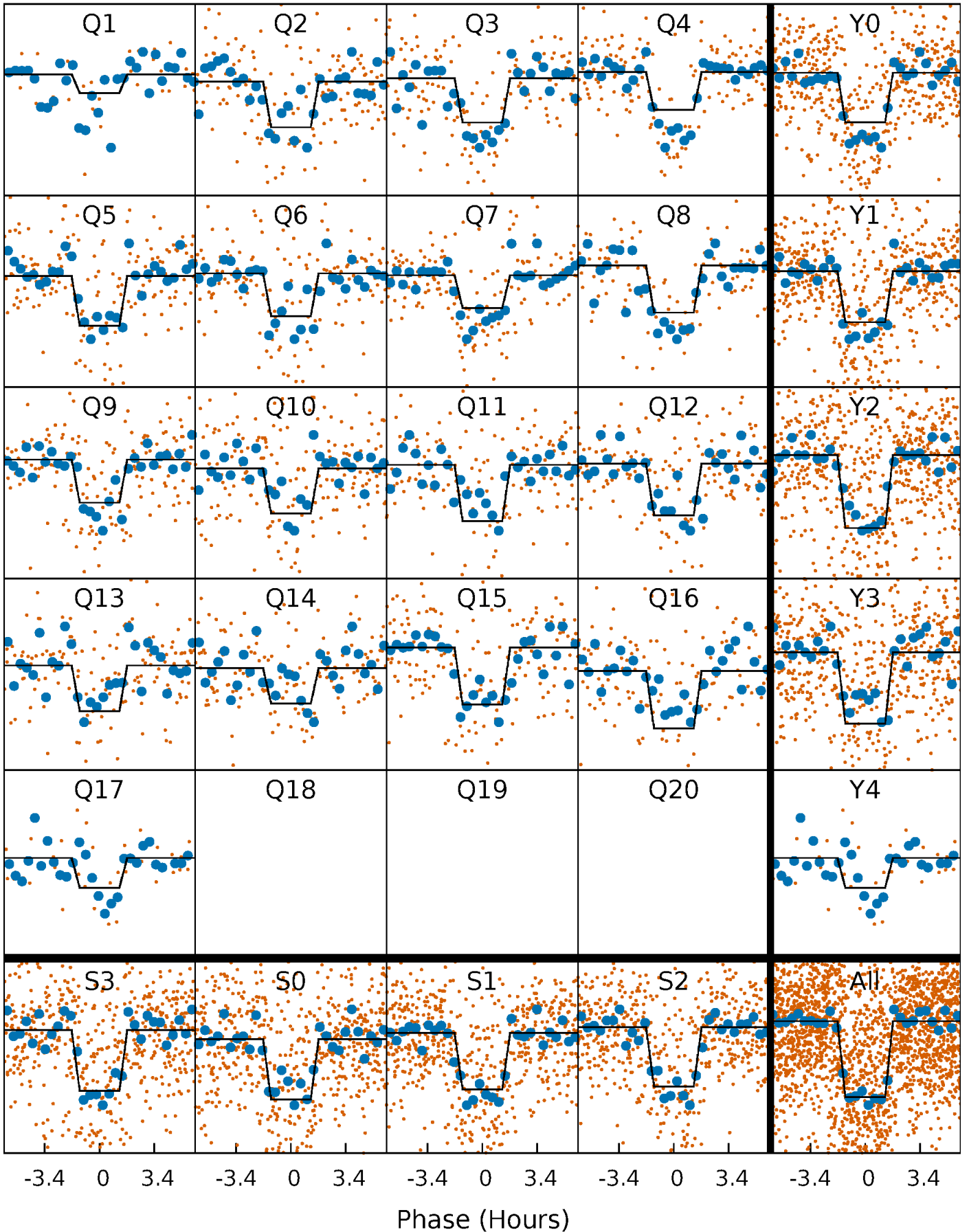
DV Quarter-Phased Transit Curves

TCE 005185897-03 P= 11.419444 Days $T_0=142.115952$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

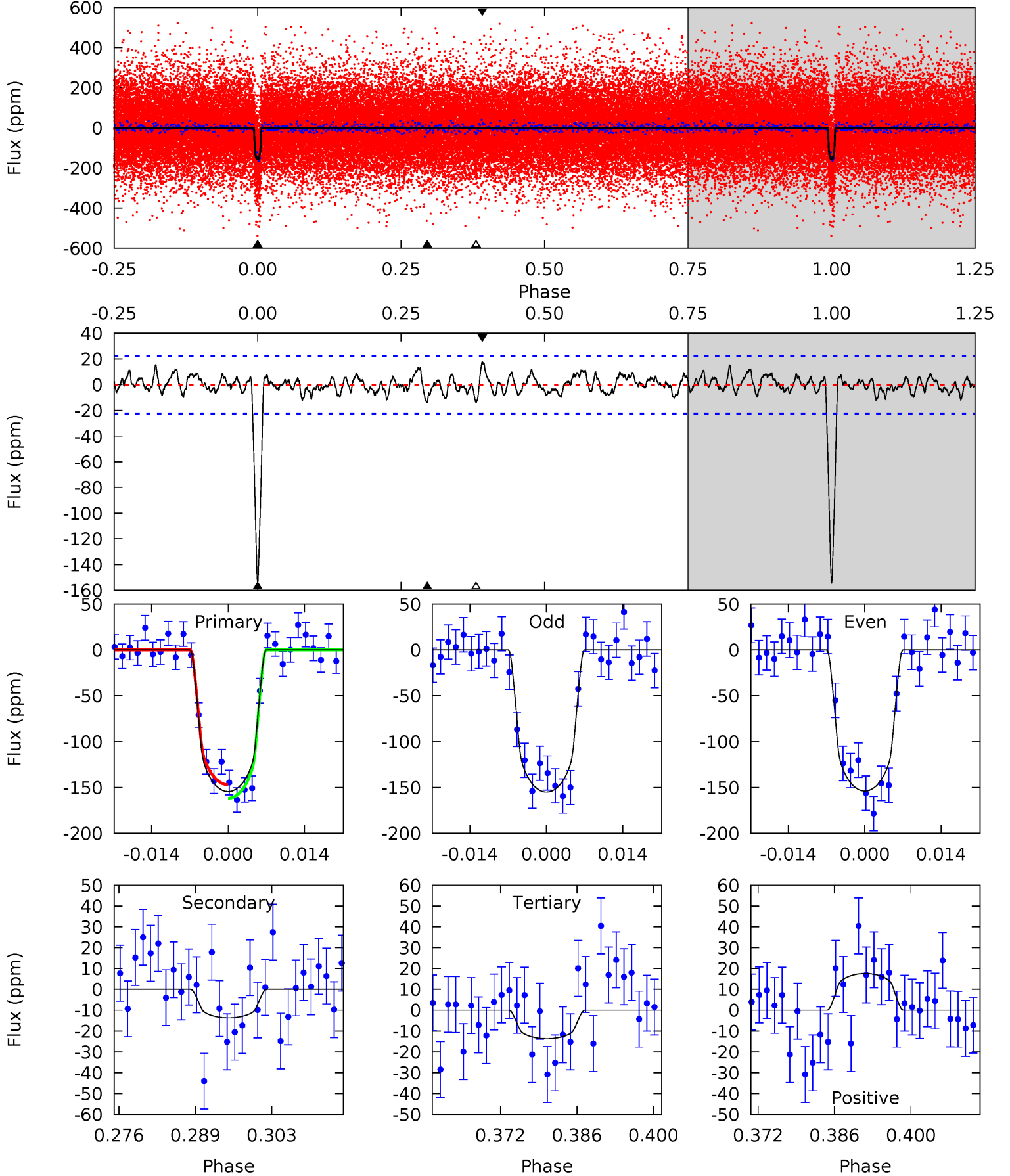
TCE 005185897-03 P= 11.419357 Days $T_0=142.122013$ (BKJD)



DV Model-Shift Uniqueness Test

005185897-03, P = 11.419444 Days, E = 130.696508 Days

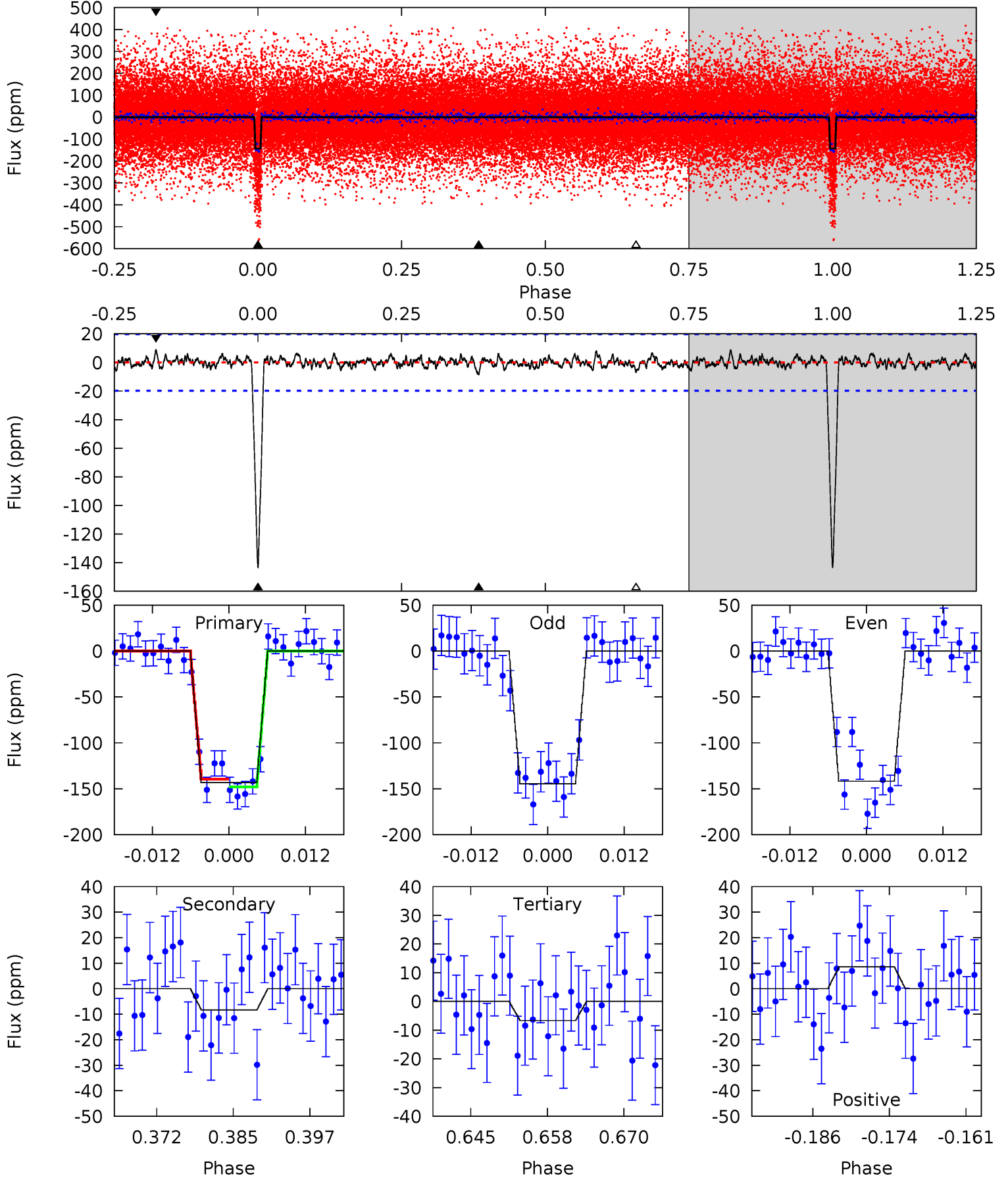
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
34.2	3.04	3.03	3.90	4.96	2.46	1.21	31.2	30.3	0.01	-0.86	0.13	0.98	0.10	1.64



Alt Model-Shift Uniqueness Test

005185897-03, $P = 11.419357$ Days, $E = 130.702656$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
36.2	2.11	1.68	2.16	4.98	2.50	0.63	34.5	34.0	0.43	-0.05	0.36	1.08	0.06	1.08



Stellar Parameters For KIC 005185897

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4498^{+90}_{-90}	$4.661^{+0.012}_{-0.042}$	$-0.080^{+0.150}_{-0.150}$	$0.635^{+0.045}_{-0.019}$	$0.698^{+0.028}_{-0.042}$	$3.840^{+0.200}_{-0.705}$
	+2%/-2%	+0%/-1%	+188%/-188%	+7%/-3%	+4%/-6%	+5%/-18%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 005185897-03 / KOI 2693.02

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-14 ± 5	$1.00^{+0.30}_{-0.30}$	755^{+18}_{-16}	2912^{+325}_{-256}	57^{+60}_{-27}
Alt.	-8 ± 4	$0.85^{+0.29}_{-0.28}$	754^{+19}_{-17}	2823^{+368}_{-291}	46^{+67}_{-25}

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

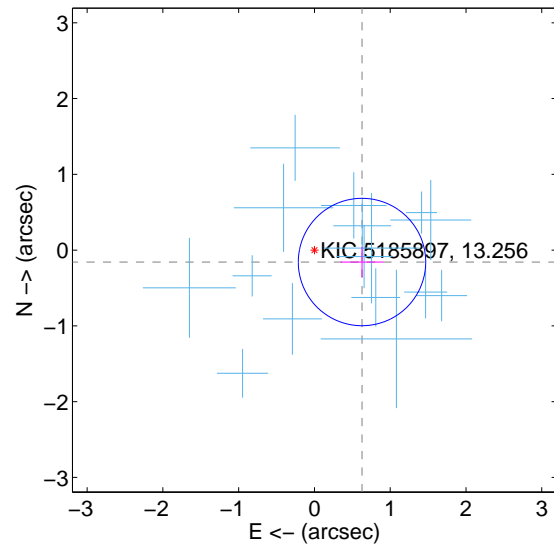
Supplemental centroid analysis for 005185897-03. Kepler magnitude: 13.26. Transit SNR 22.35

There are 16 quarters with good PRF difference image offsets

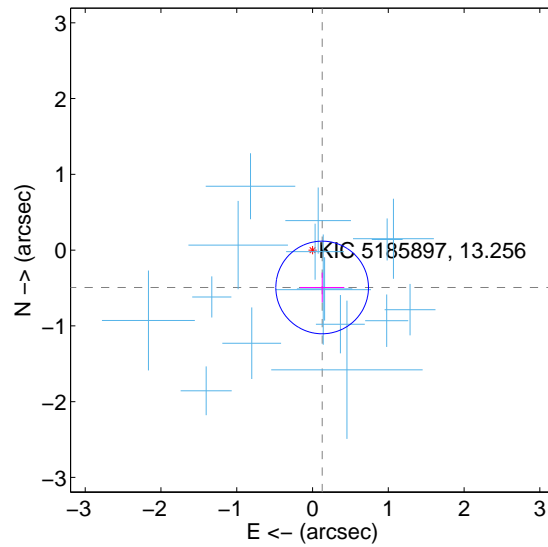
The direct PRF centroid is offset from the target star catalog position by about 0.67 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.647 ± 0.280	2.31	-0.628 ± 0.284	-0.157 ± 0.202
PRF-fit source offset from KIC position	0.509 ± 0.204	2.50	-0.127 ± 0.293	-0.493 ± 0.196
photometric centroid source offset	1.49 ± 0.39	3.82	1.24 ± 0.39	-0.83 ± 0.38

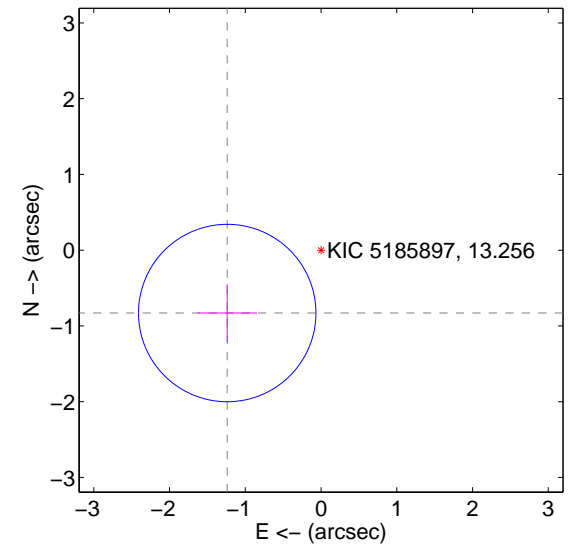
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

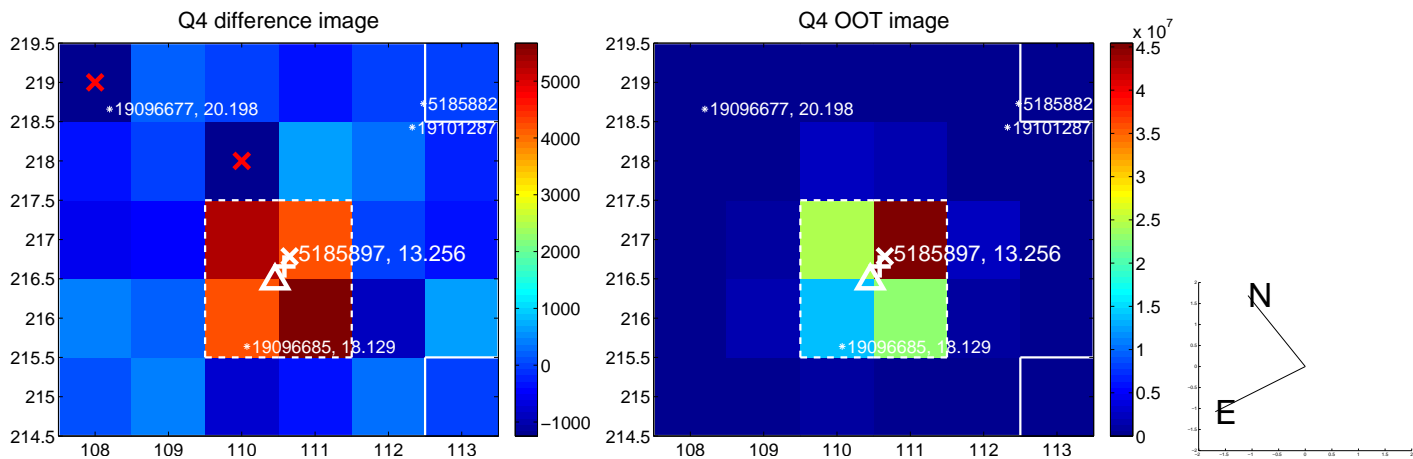
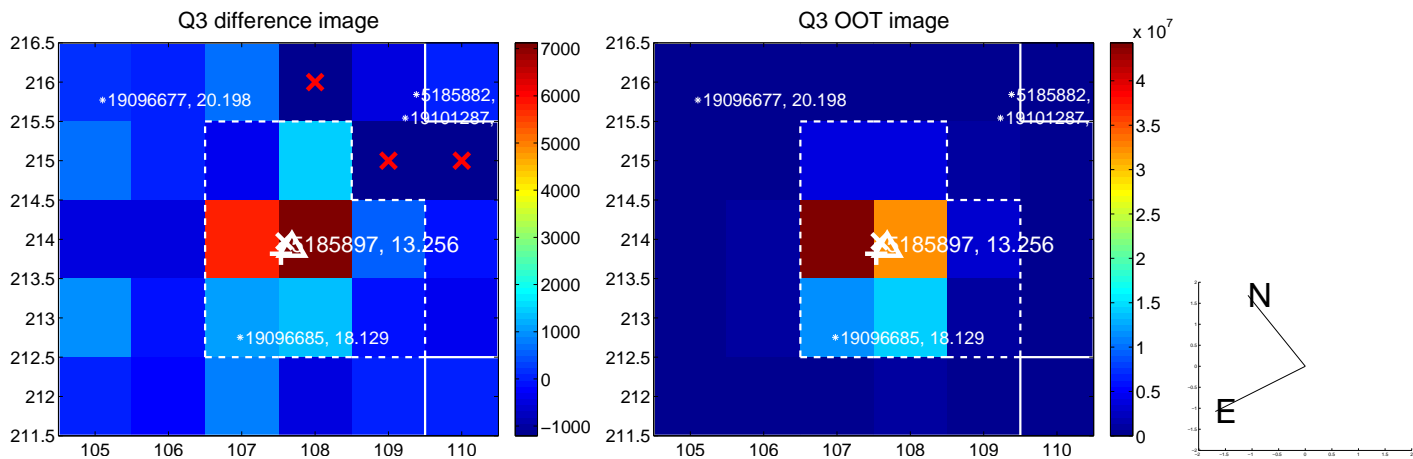
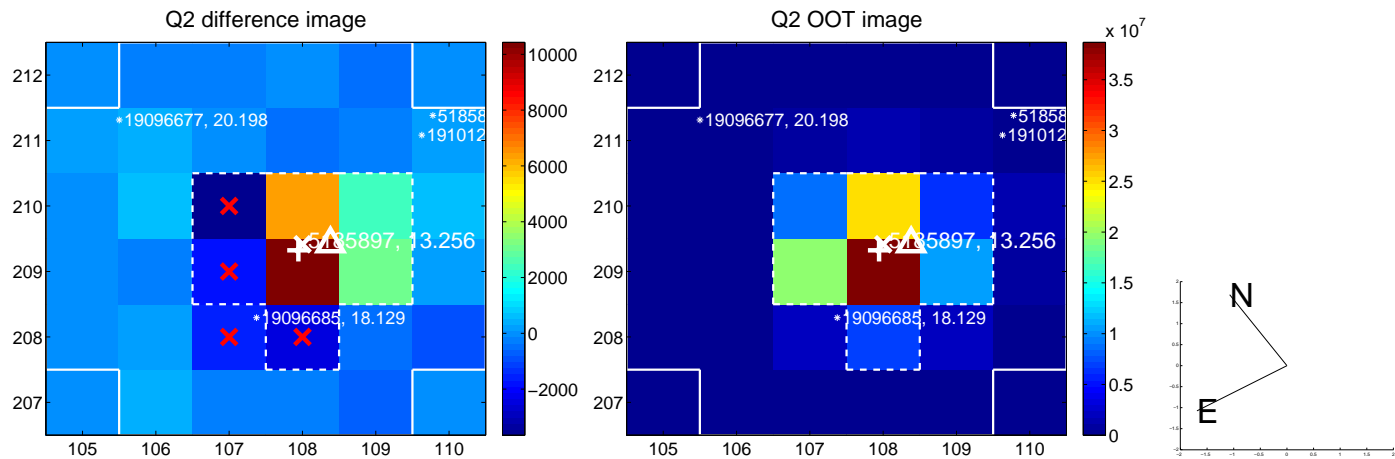
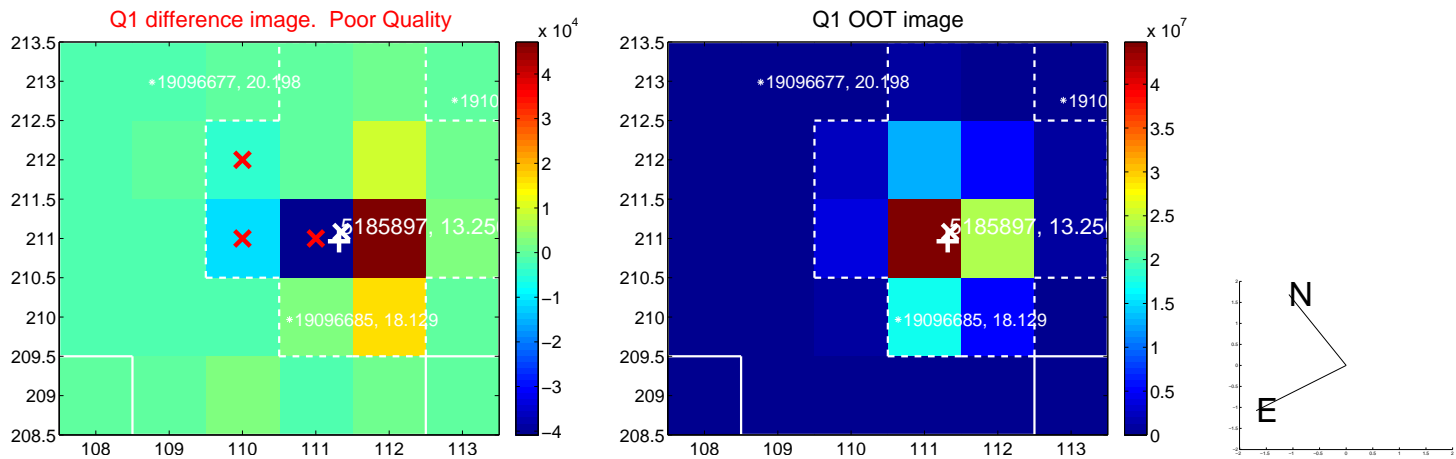


offset from photometric centroids

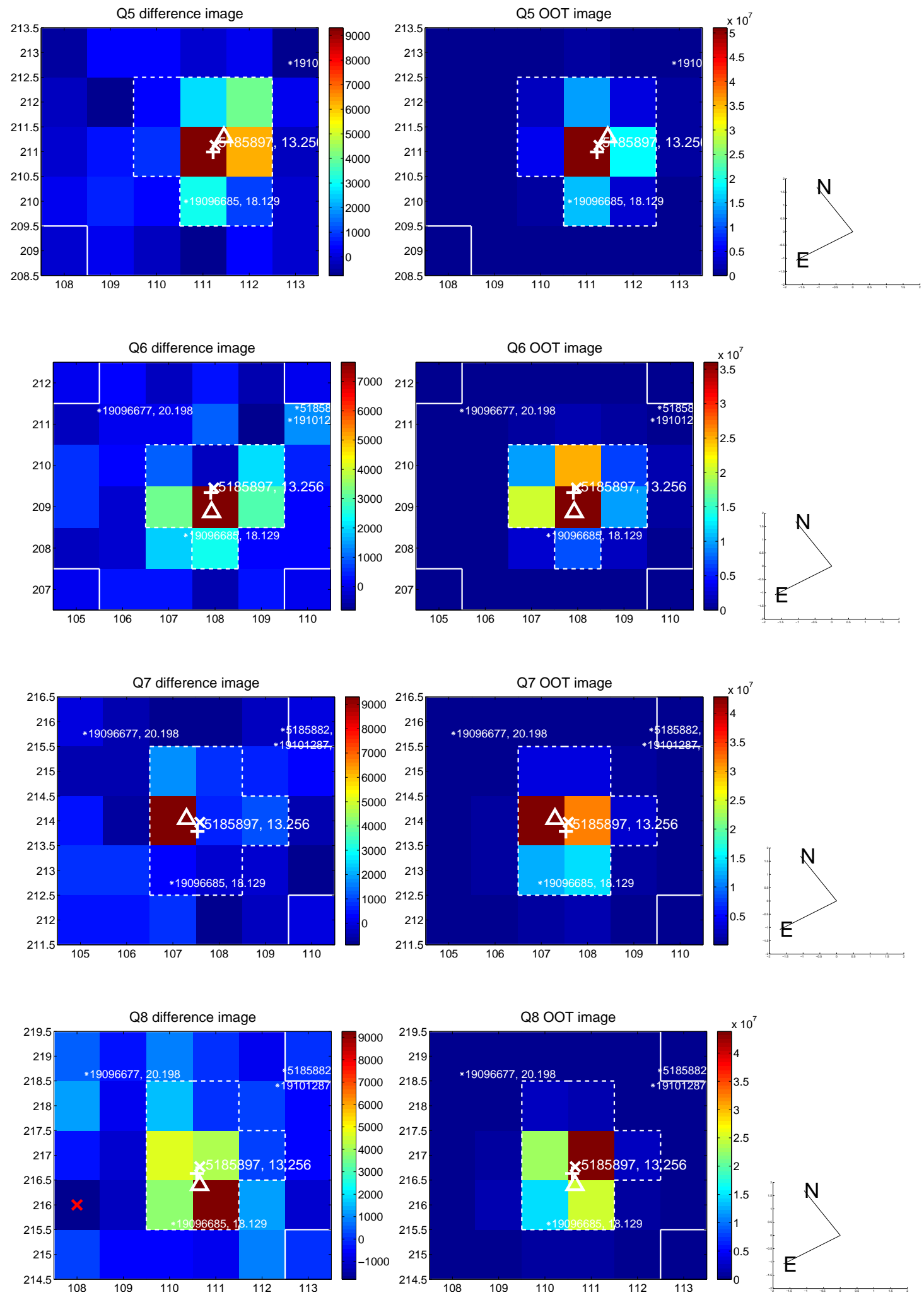


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

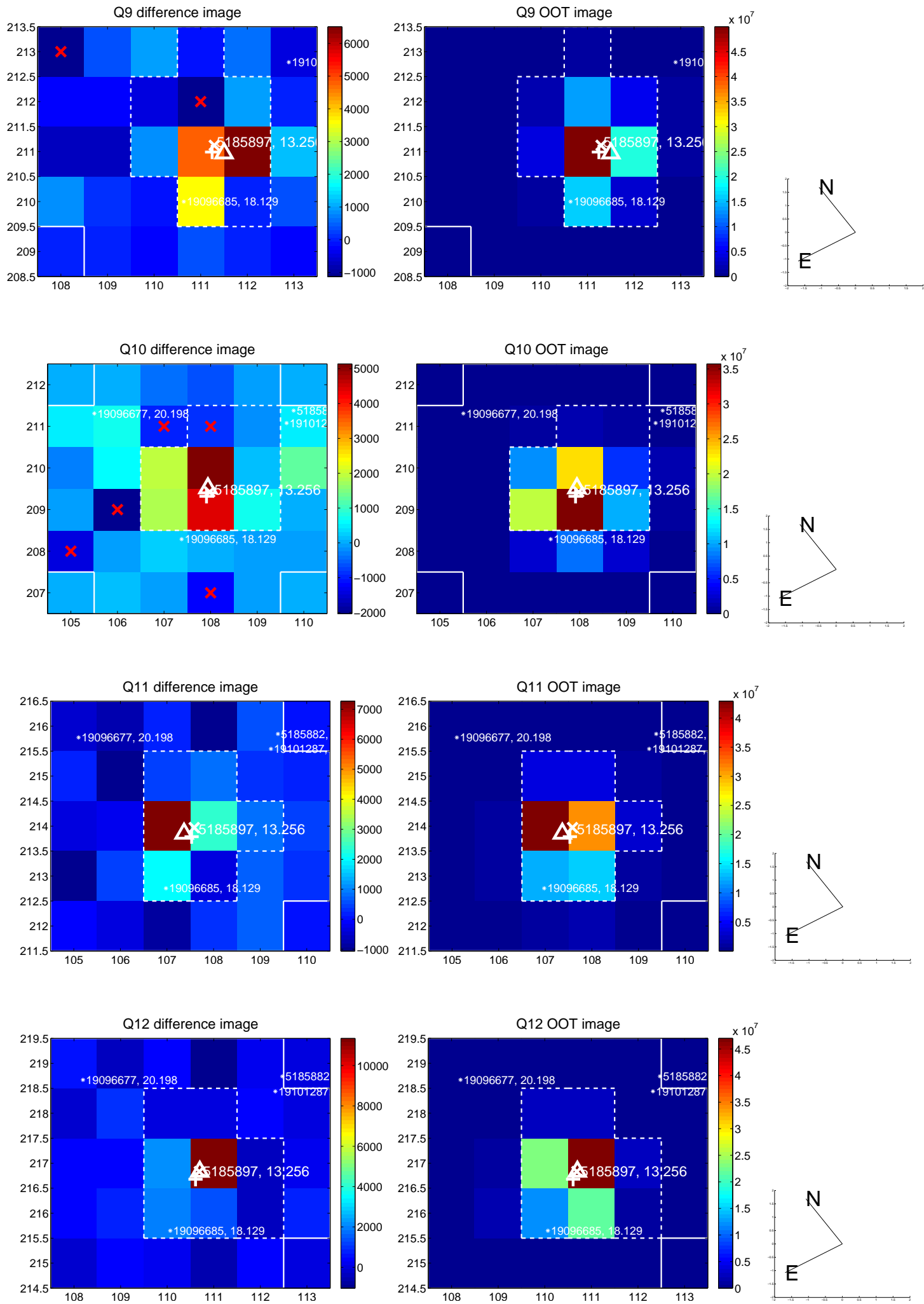
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



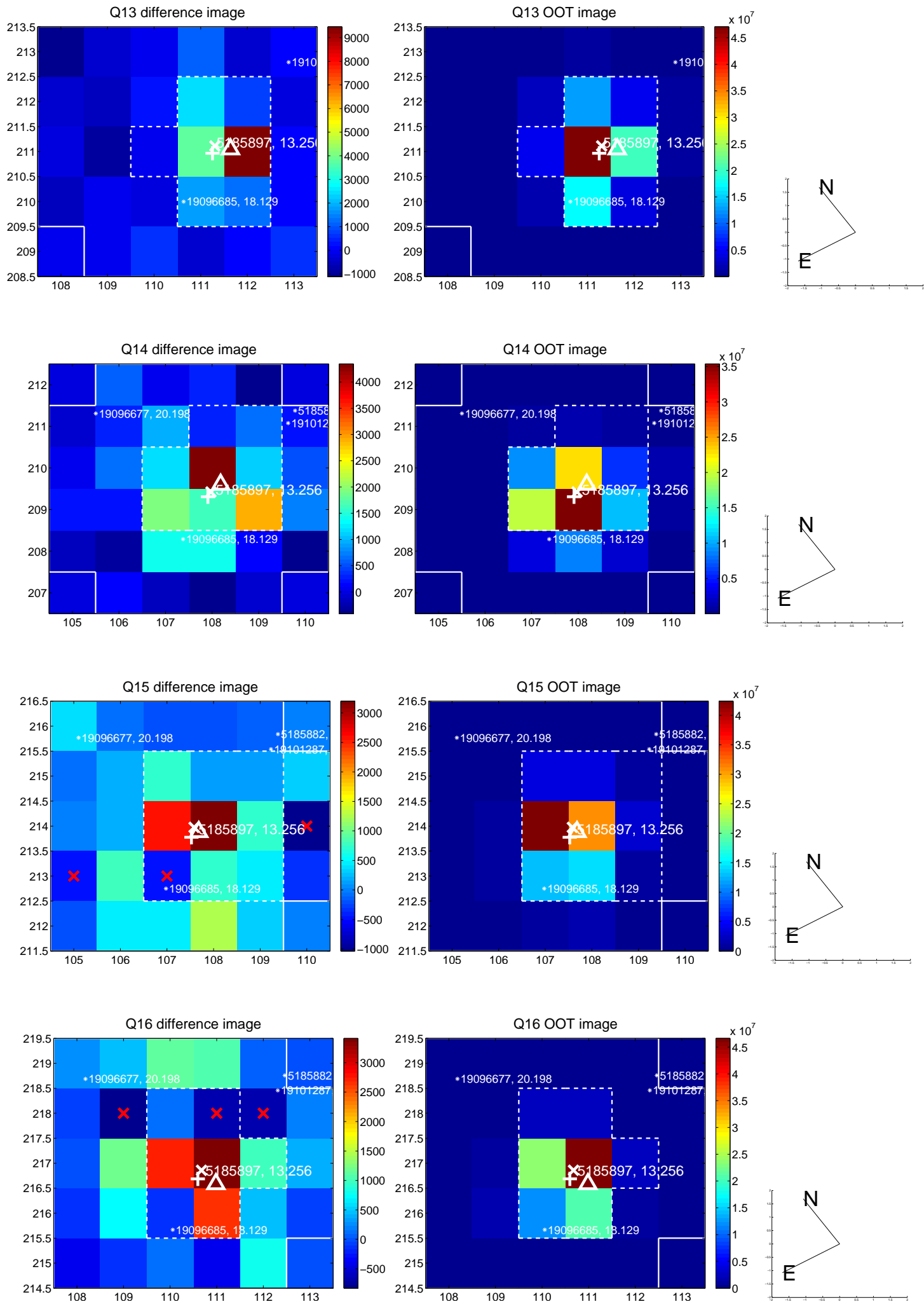
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



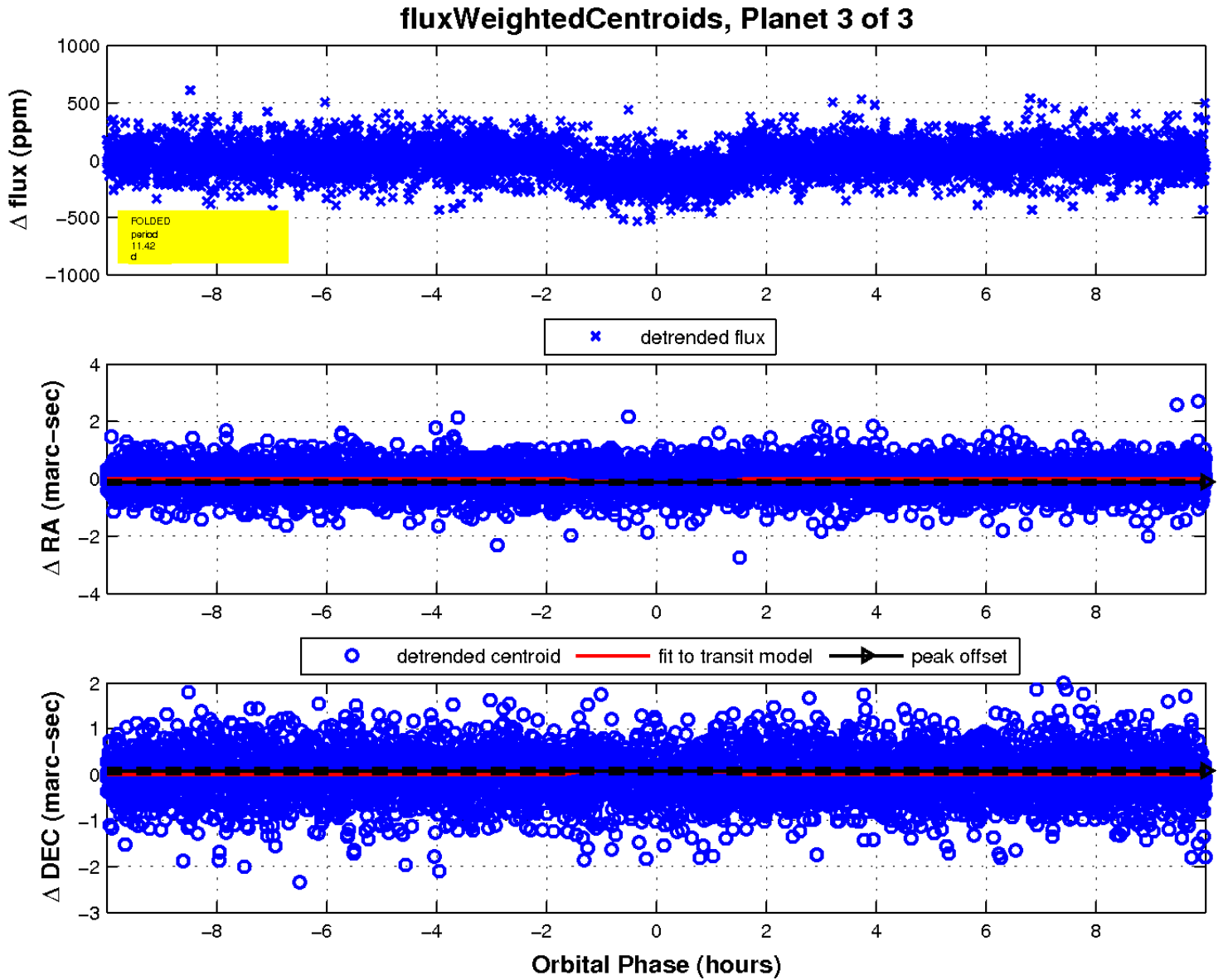
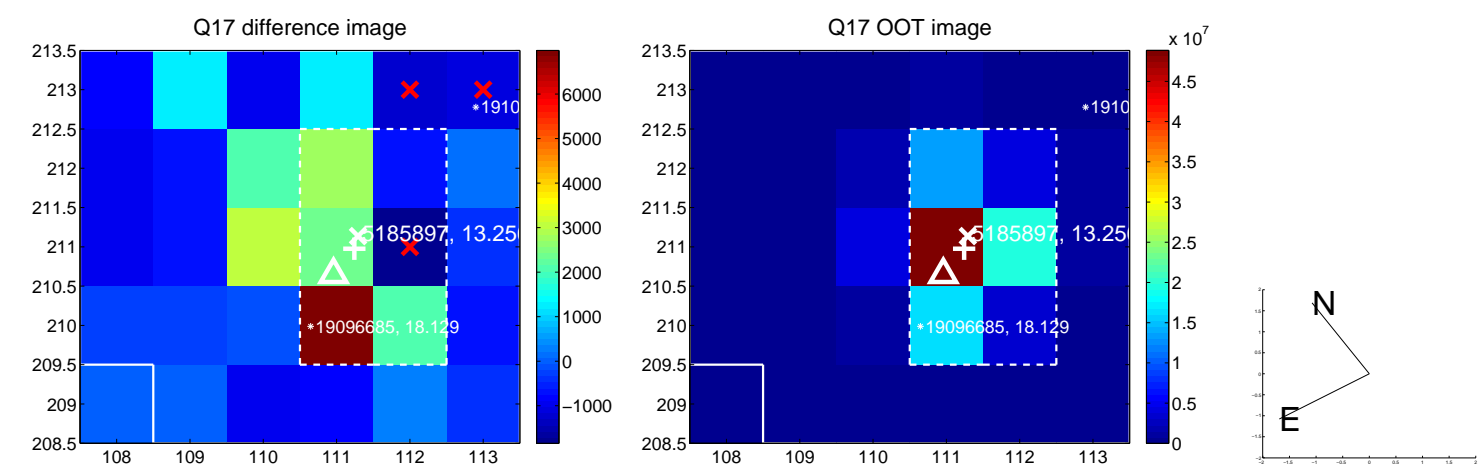
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

