

KIC 011566064

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})
011566064-01	OBS	0353.01	152.106106	176.527808	3734.0	7.512	82.5	83.7	1.64	6200	11.67	10.38
011566064-02	OBS	0353.02	30.652820	135.043568	322.1	5.156	17.3	18.5	1.64	6200	3.23	87.85
011566064-03	OBS	0353.03	11.161808	133.559631	91.6	4.951	8.0	8.7	1.64	6200	1.78	337.84

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011566064-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011566064-02	OBS	PC	0.99	0	0	0	0	NO_COMMENT
011566064-03	OBS	PC	0.97	0	0	0	0	NO_COMMENT

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

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

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

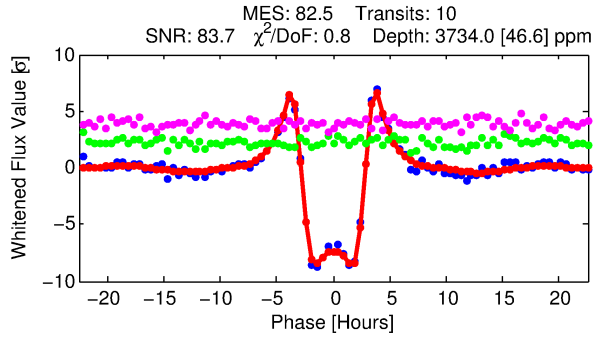
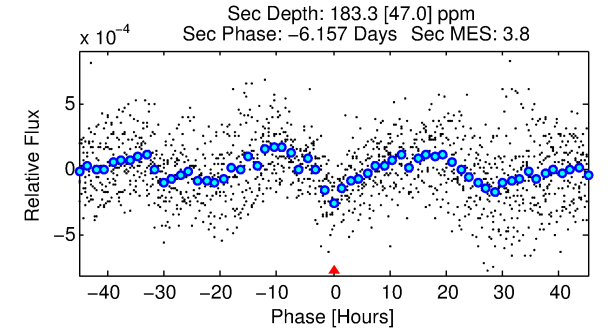
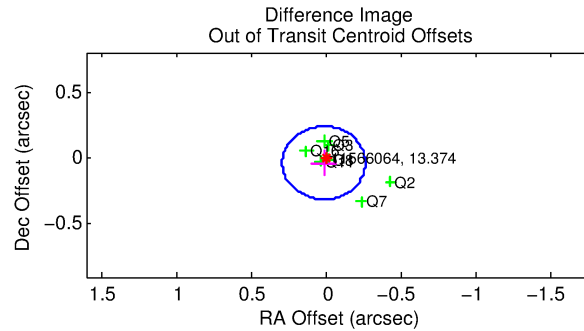
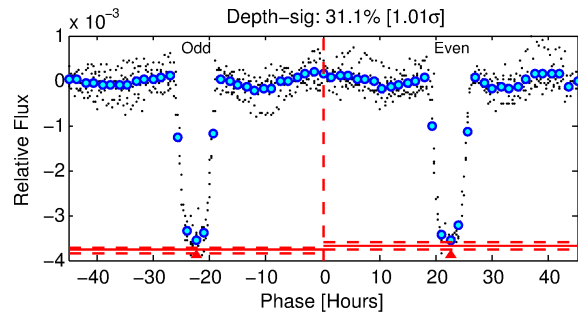
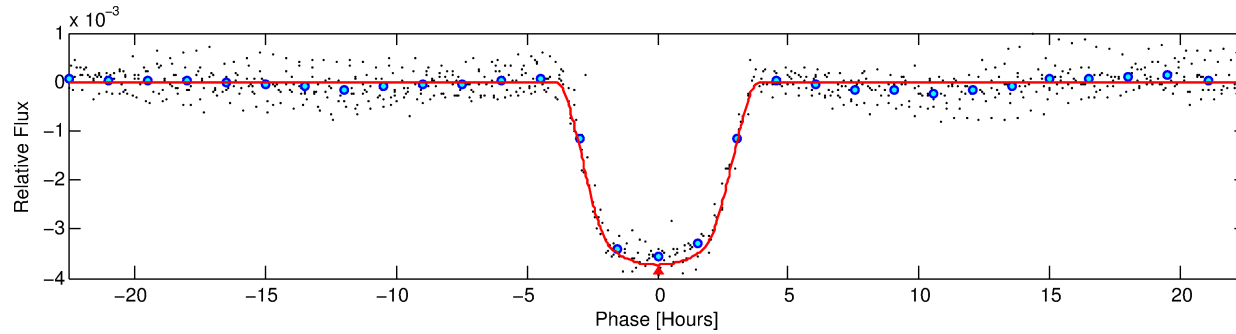
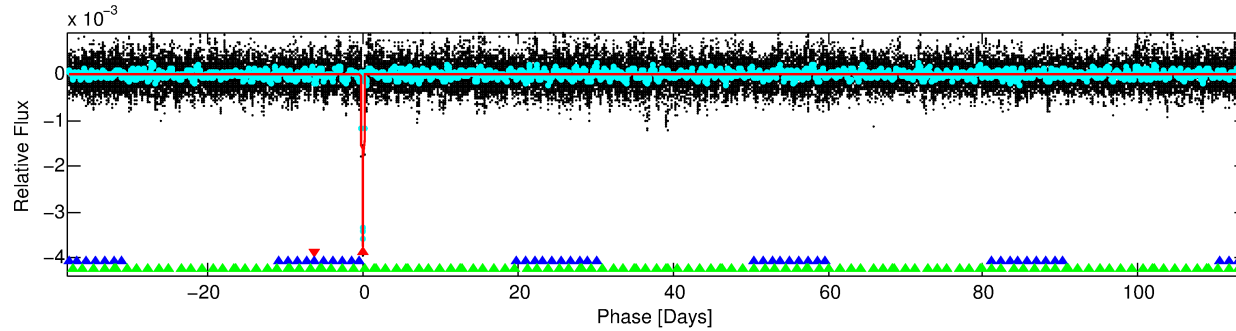
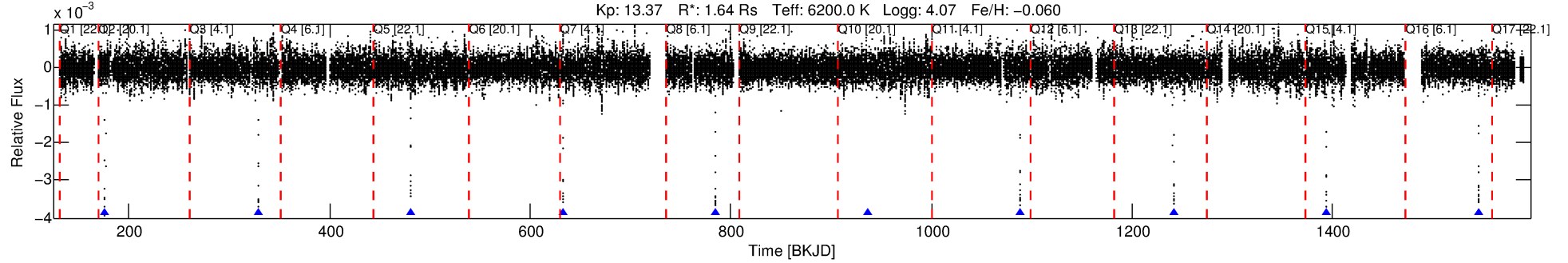
Ephemeris Match Information For 011566064-01

No Significant Match Found

DV One-Page Summary

KIC: 11566064 Candidate: 1 of 3 Period: 152.106 d
KOI: K00353.01 Corr: 0.985

Kp: 13.37 R*: 1.64 Rs Teff: 6200.0 K Logg: 4.07 Fe/H: -0.060



DV Fit Results:

Period = 152.10611 [0.00017] d
Epoch = 176.5278 [0.0009] BKJD
Rp/R* = 0.0652 [0.0005]
a/R* = 91.63 [1.19]
b = 0.89 [0.00]
Seff = 10.38 [3.43]
Teq = 458 [38] K
Rp = 11.67 [2.44] Re
a = 0.5857 [0.1175] AU
Ag = 253.92 [104.32] [2.42σ]
Teffp = 2825 [190] K [12.21σ]

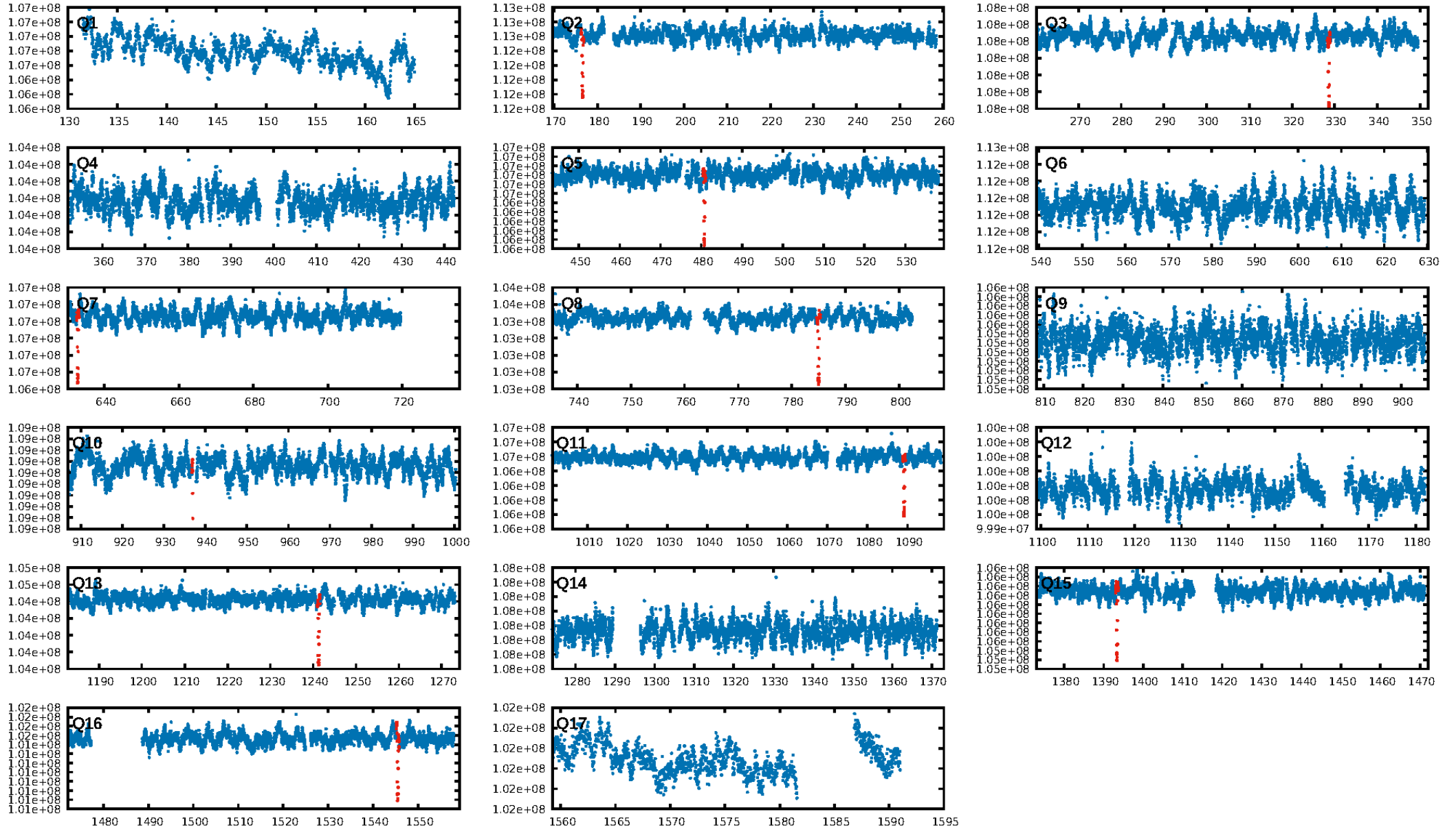
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [319.94σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 84.5%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [10/10]
GhostDiagnostic-chr: 2.352
Centroid-sig: 21.2%
Centroid-so: 0.112 arcsec [2.01σ]
OotOffset-rm: 0.038 arcsec [0.41σ]
OotOffset-st: 1/3/2/1 [7]
KicOffset-rm: 0.084 arcsec [0.91σ]
KicOffset-st: 1/3/2/1 [7]
DiffImageQuality-fgm: 1.00 [7/7]
DiffImageOverlap-fno: 0.86 [6/7]

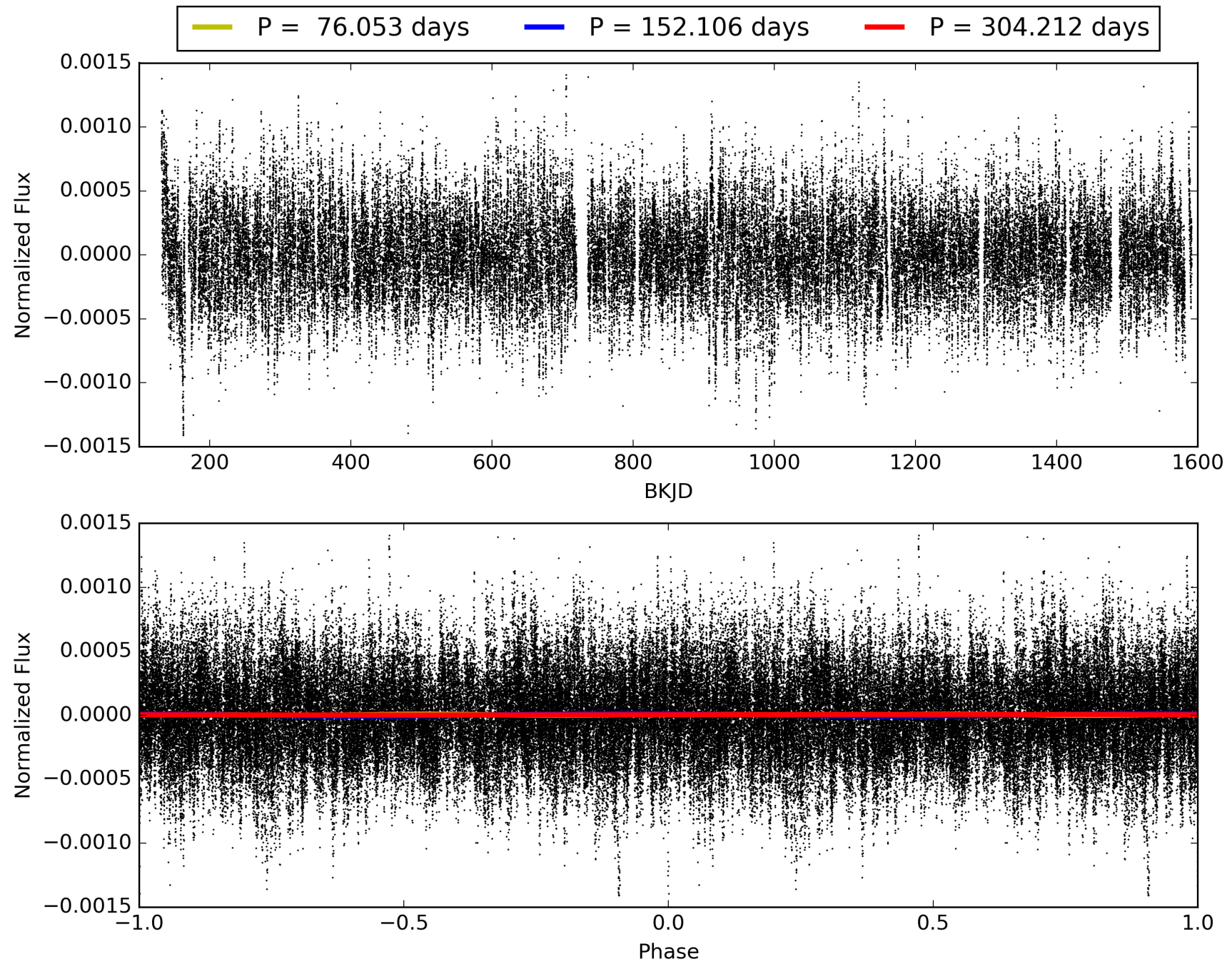
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 05:05:16 Z

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

TCE 011566064-01, PDC Light Curves

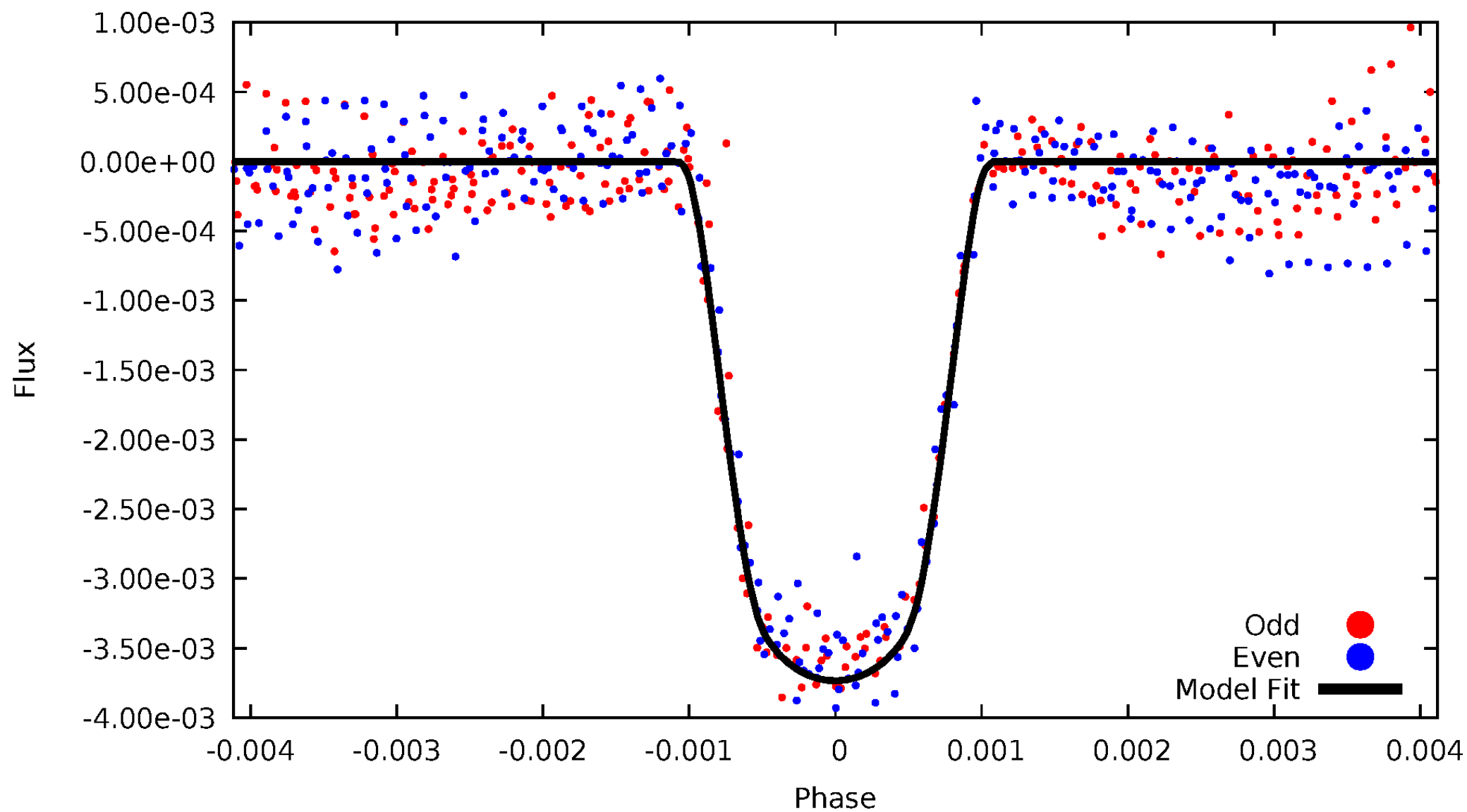


TCE 011566064-01



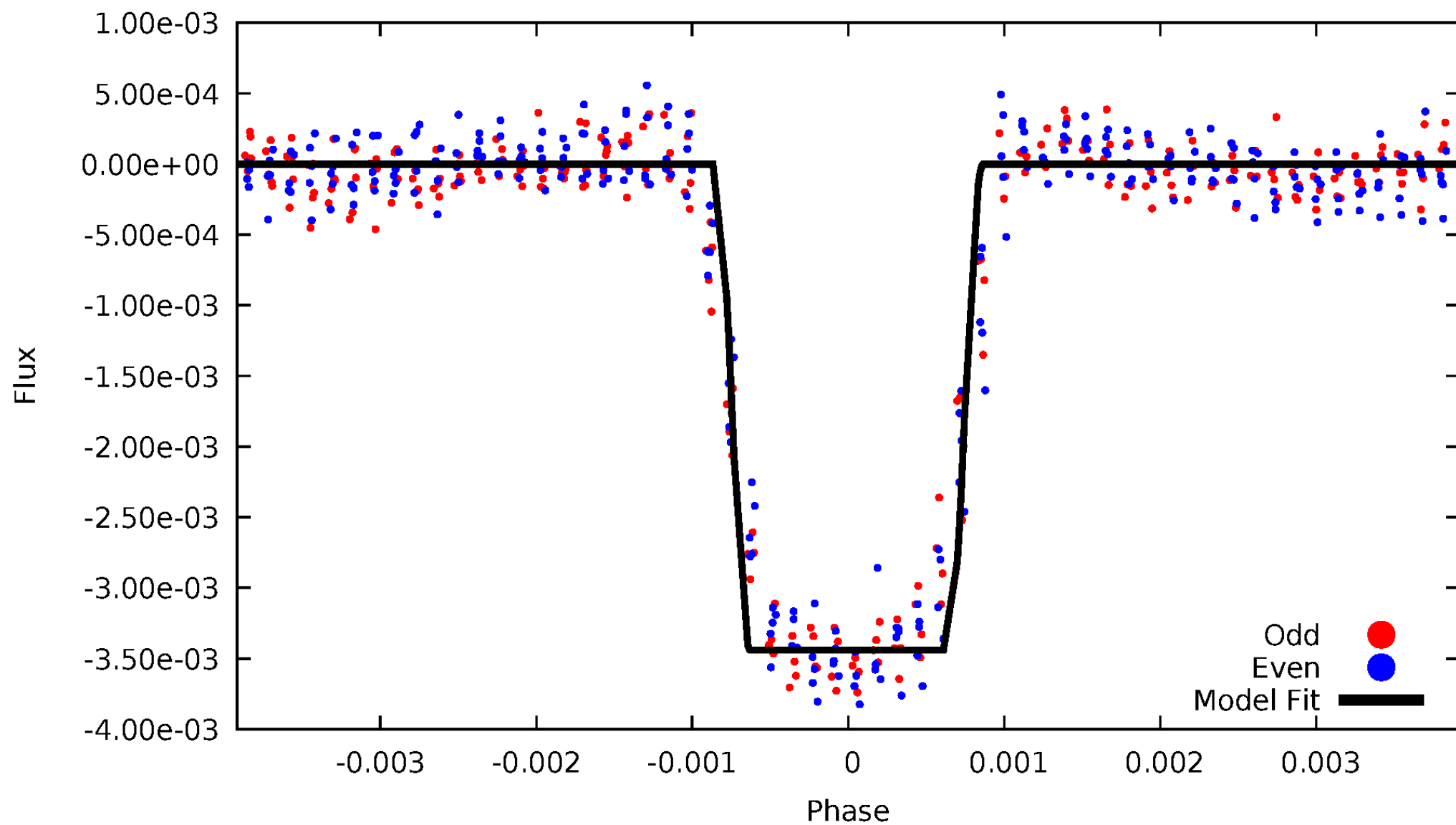
DV Odd/Even

TCE 011566064-01



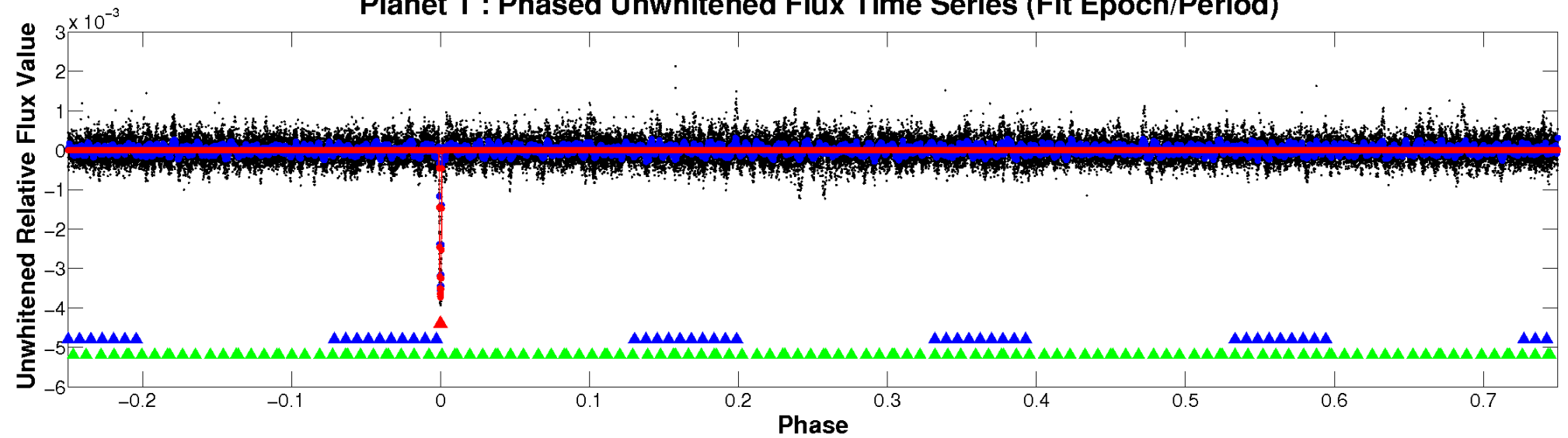
ALT Odd/Even

TCE 011566064-01

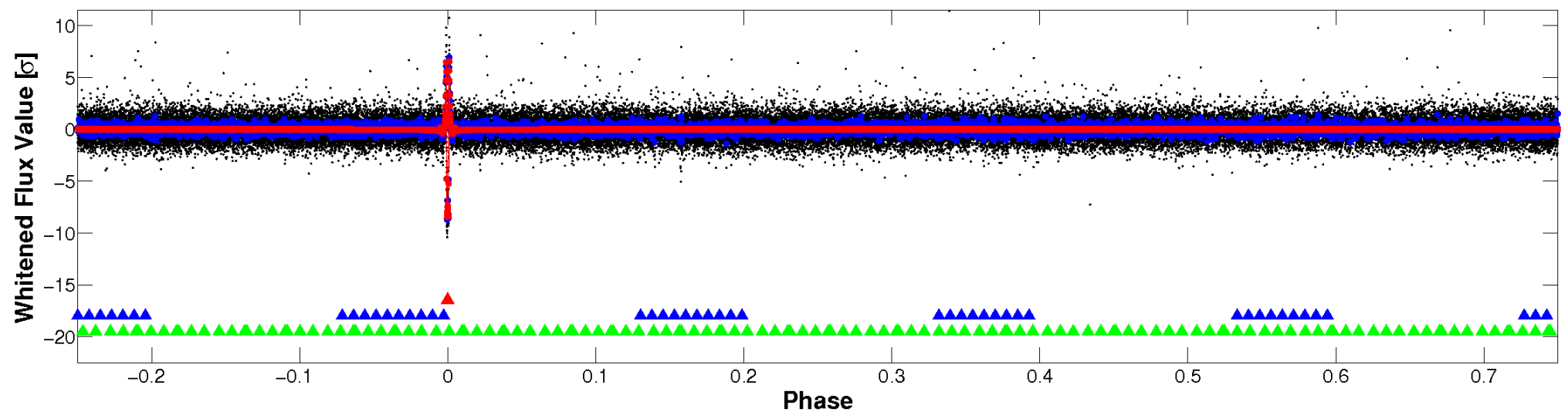


Non-Whitened Vs. Whitened Light Curve

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

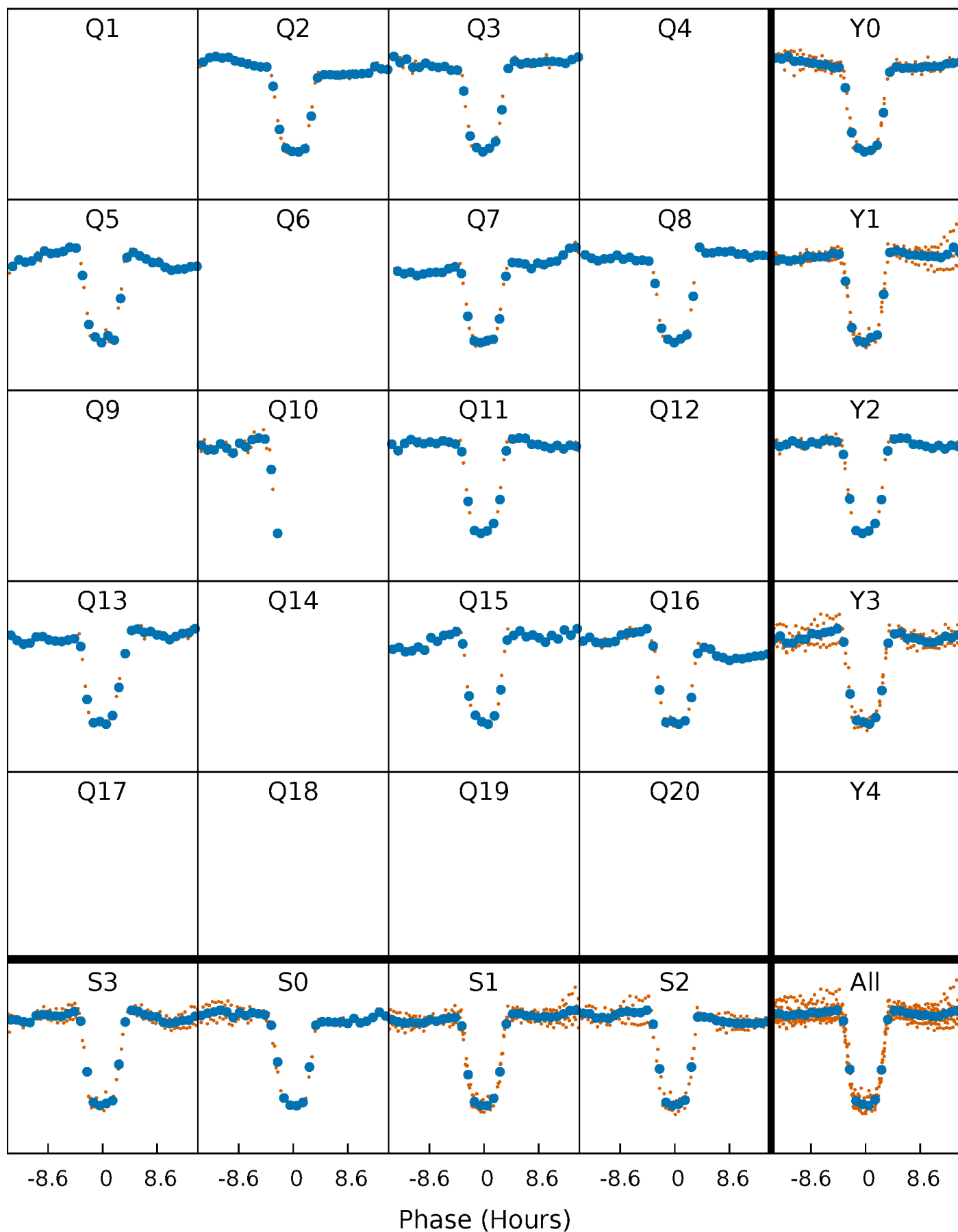


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



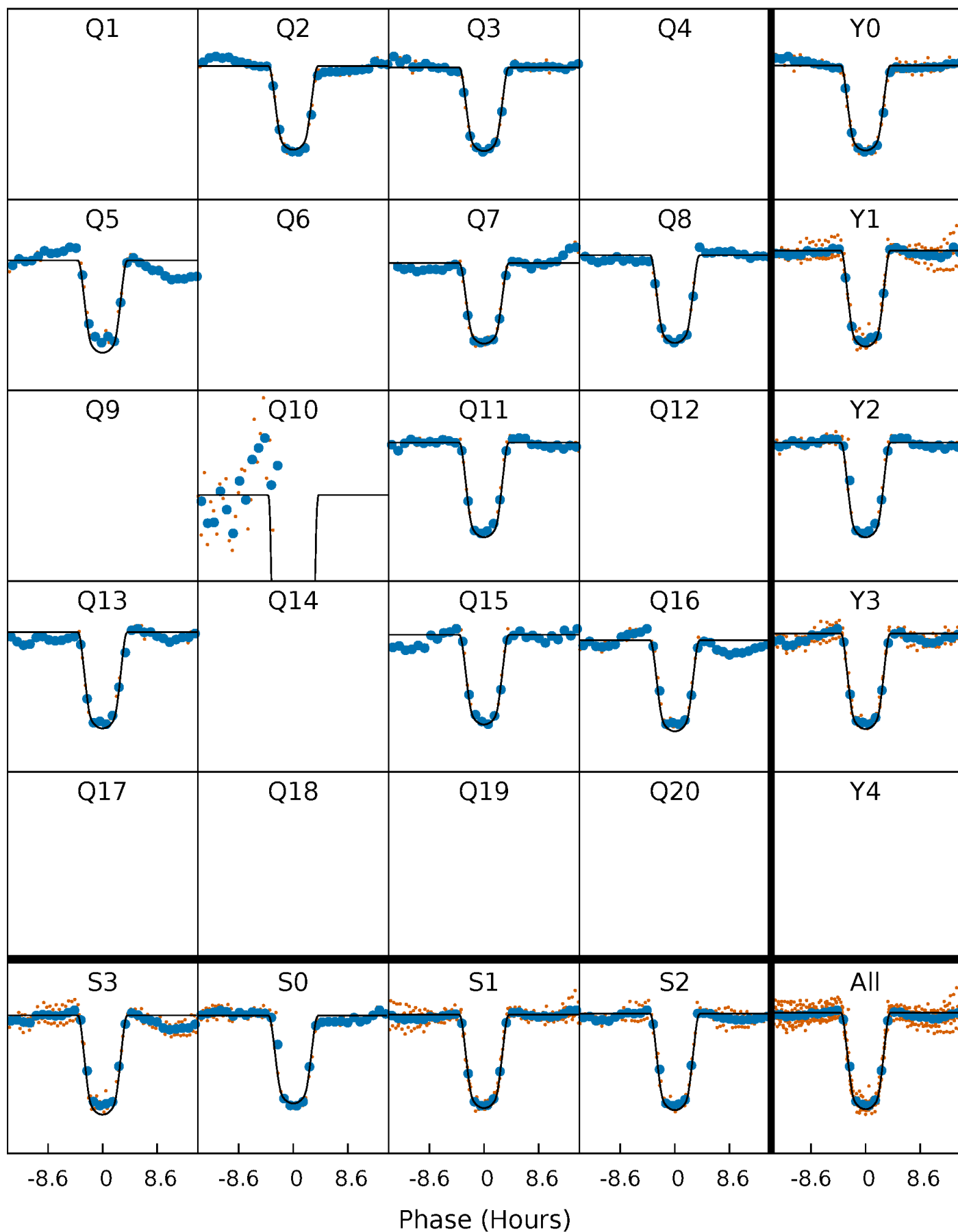
PDC Quarter-Phased Transit Curves

TCE 011566064-01 P=152.106106 Days $T_0=176.527808$ (BKJD)



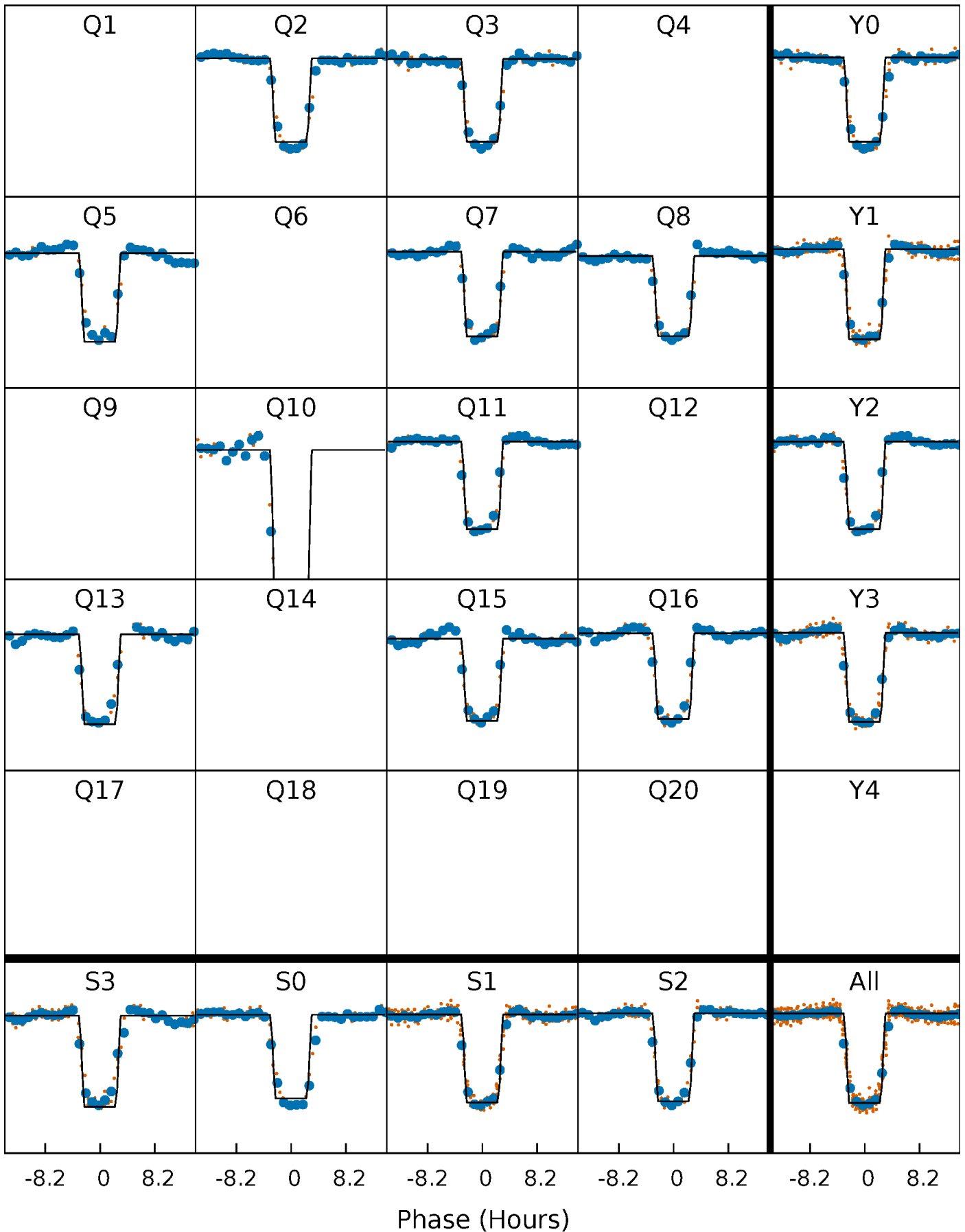
DV Quarter-Phased Transit Curves

TCE 011566064-01 P=152.106106 Days $T_0=176.527808$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

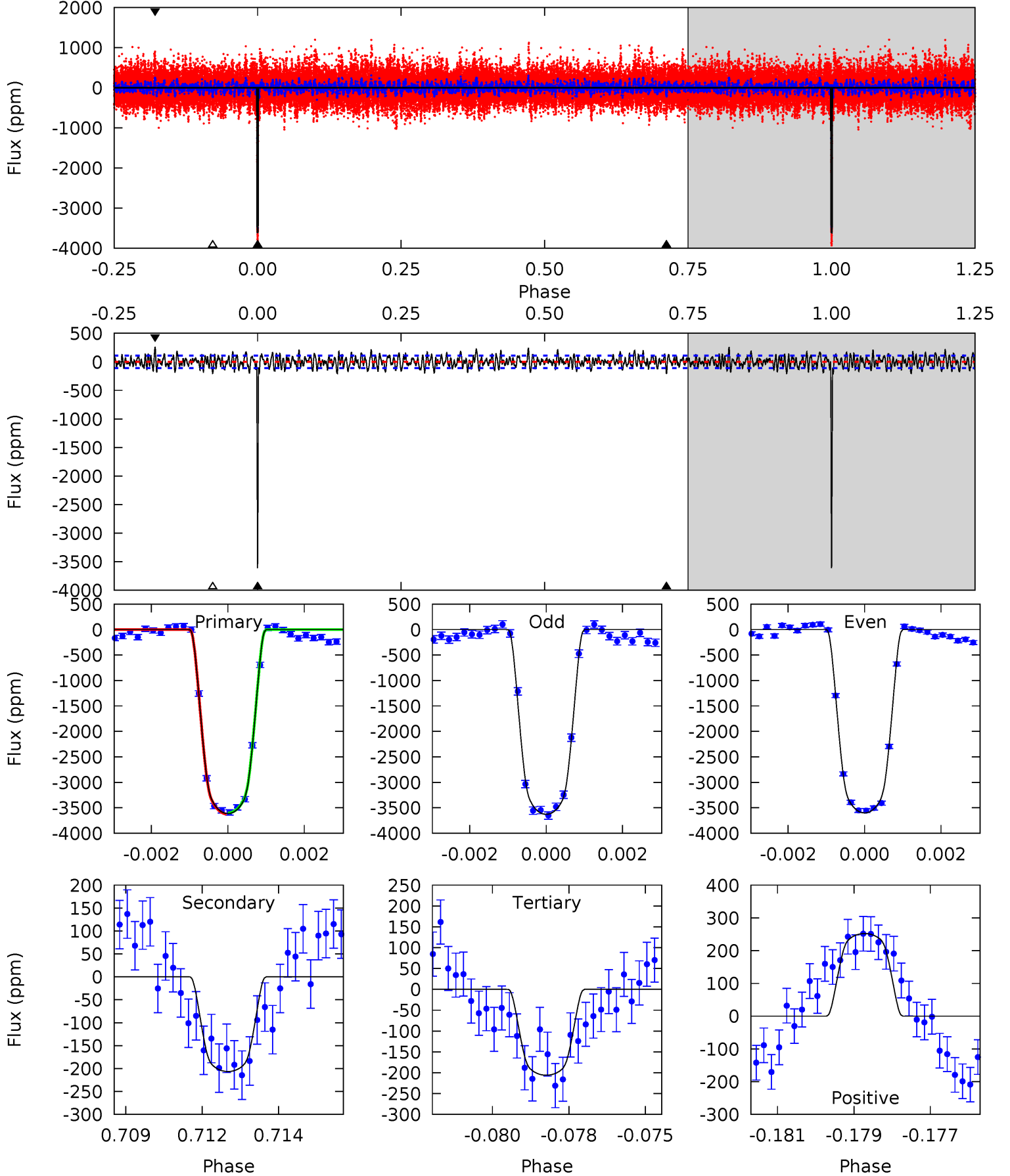
TCE 011566064-01 P=152.108088 Days $T_0=176.517431$ (BKJD)



DV Model-Shift Uniqueness Test

011566064-01, $P = 152.106106$ Days, $E = 24.421702$ Days

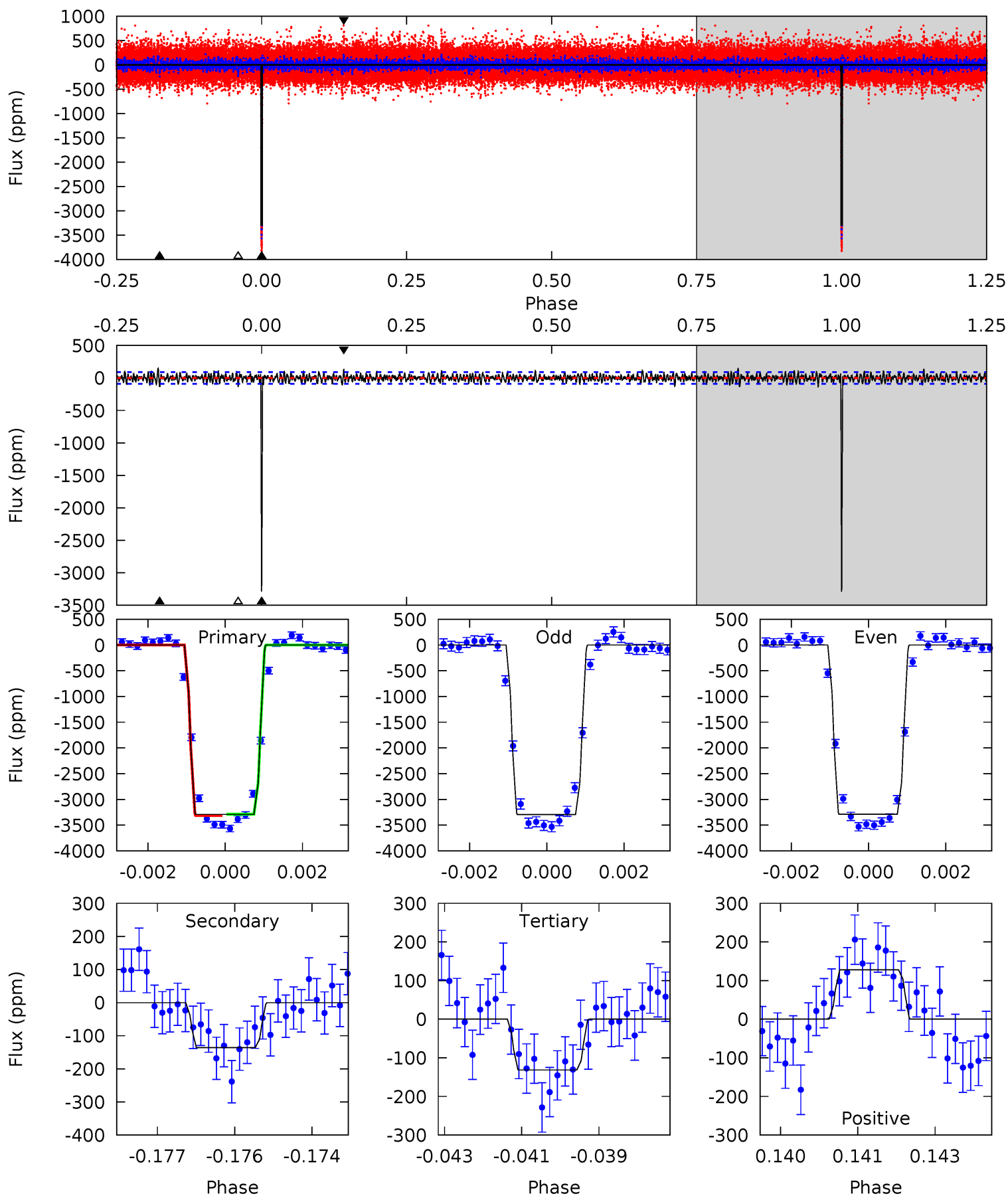
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
175.1	10.0	9.98	12.2	5.31	3.07	3.74	165.1	162.9	0.02	-2.21	0.66	0.90	0.07	0.51



Alt Model-Shift Uniqueness Test

011566064-01, P = 152.108088 Days, E = 24.409343 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
196.4	8.12	7.86	7.63	5.36	3.15	2.25	188.6	188.8	0.27	0.49	0.12	1.00	0.04	0.75



Stellar Parameters For KIC 011566064

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6200^{+124}_{-124}	$4.072^{+0.188}_{-0.101}$	$-0.060^{+0.150}_{-0.150}$	$1.640^{+0.281}_{-0.343}$	$1.158^{+0.140}_{-0.105}$	$0.370^{+0.361}_{-0.128}$
	+2%/-2%	+5%/-2%	+250%/-250%	+17%/-21%	+12%/-9%	+98%/-34%
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 011566064-01 / KOI 0353.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-207 ± 21	$11.52^{+1.20}_{-1.27}$	633^{+32}_{-34}	3421^{+70}_{-69}	299^{+80}_{-59}
Alt.	-136 ± 17	$10.35^{+1.02}_{-1.21}$	632^{+33}_{-36}	3321^{+70}_{-77}	245^{+71}_{-51}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

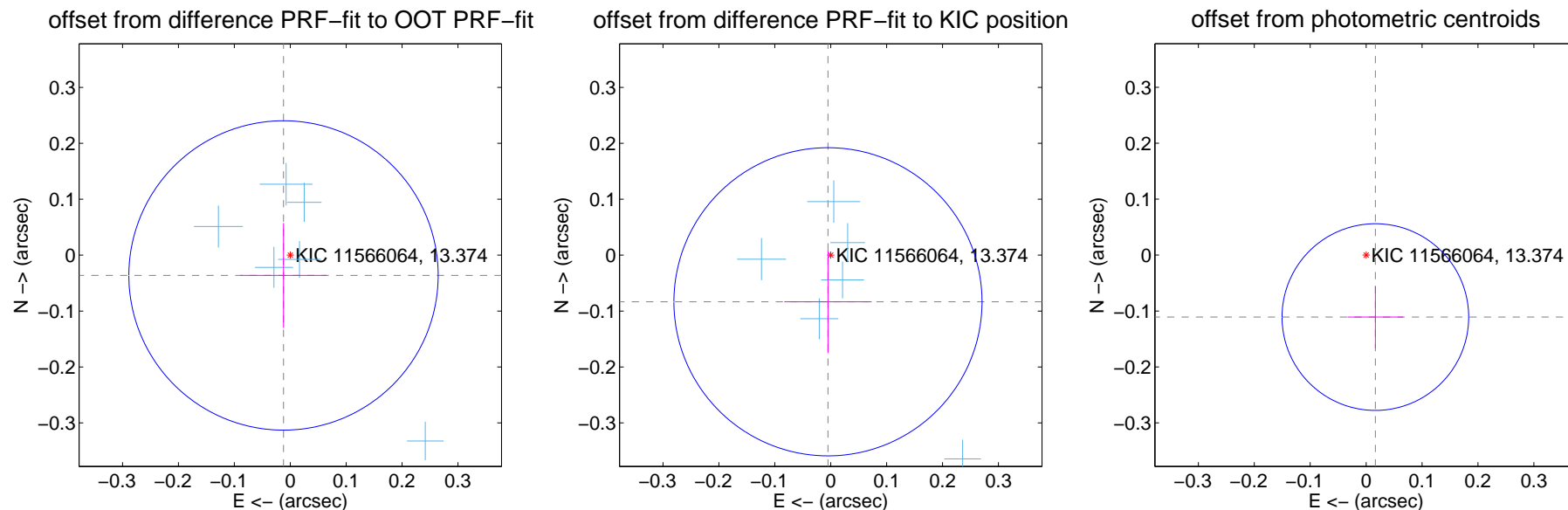
DV Centroid Data

Supplemental centroid analysis for 011566064-01. Kepler magnitude: 13.37. Transit SNR 83.75

There are 7 quarters with good PRF difference image offsets

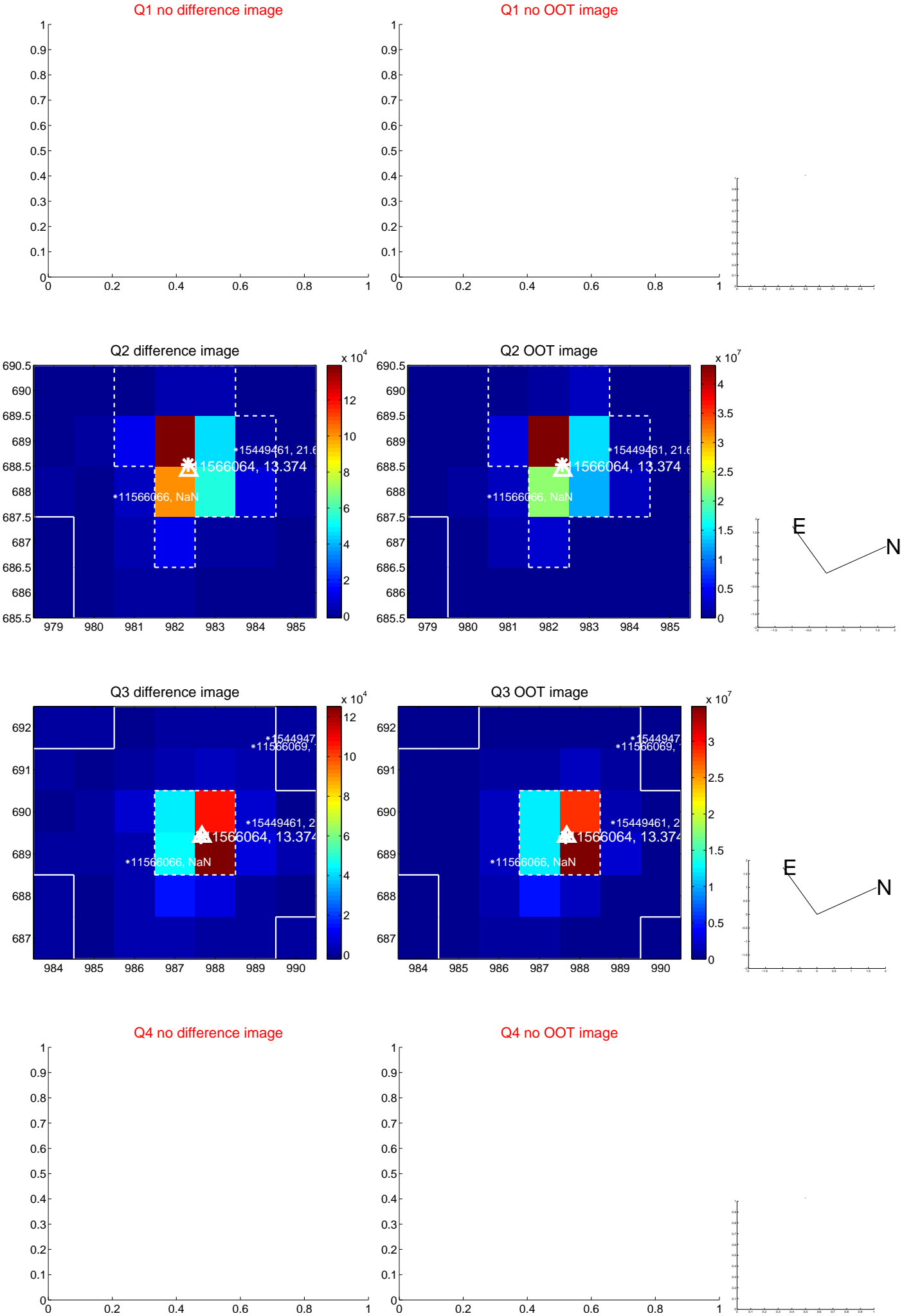
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.038 ± 0.092	0.41	0.012 ± 0.077	-0.036 ± 0.094
PRF-fit source offset from KIC position	0.084 ± 0.092	0.91	0.005 ± 0.078	-0.083 ± 0.092
photometric centroid source offset	0.11 ± 0.06	2.01	-0.02 ± 0.05	-0.11 ± 0.06

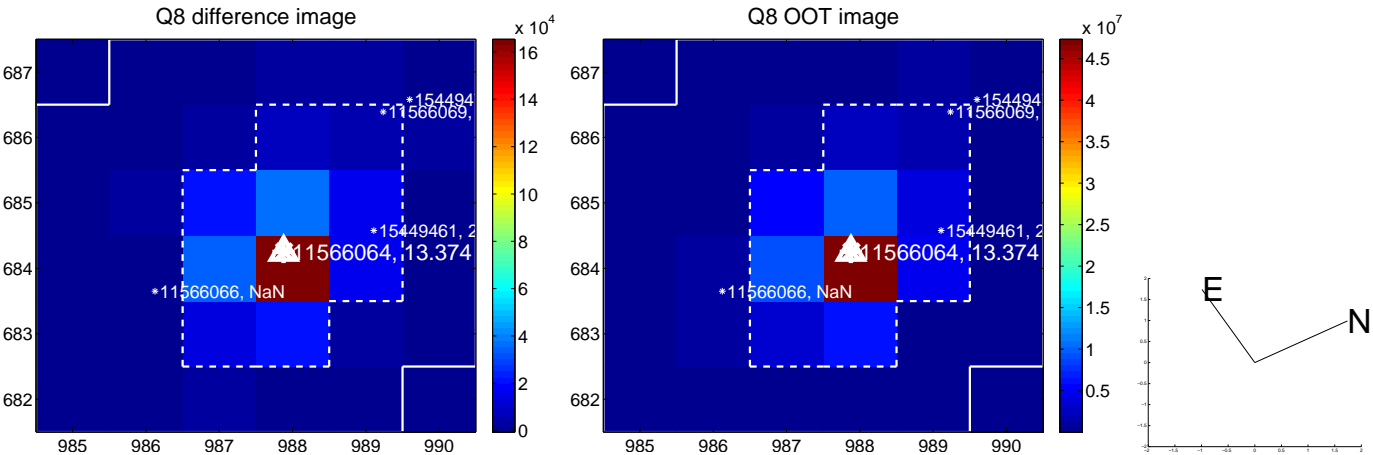
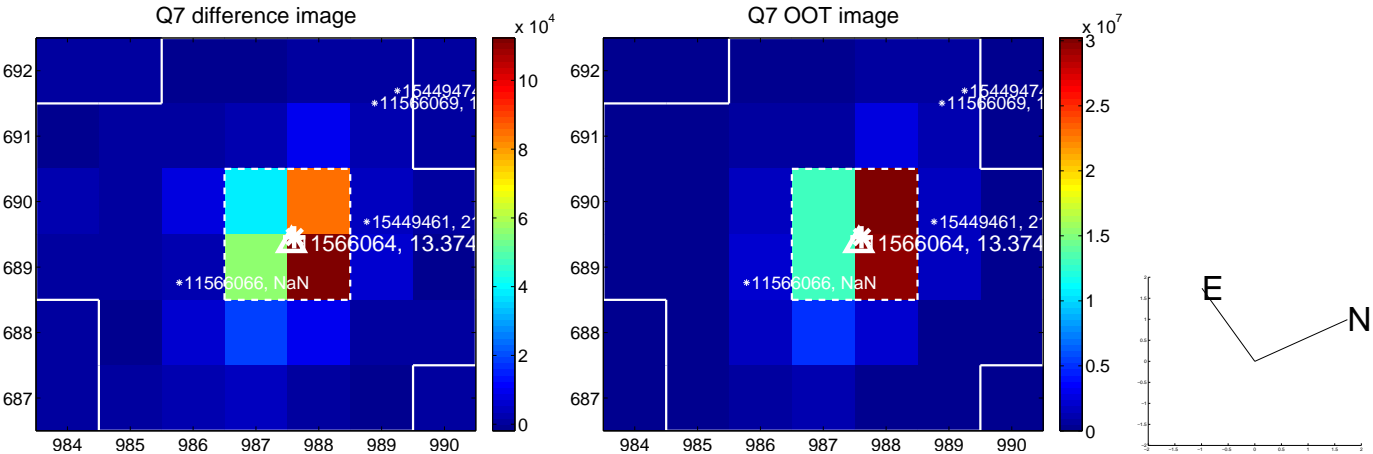
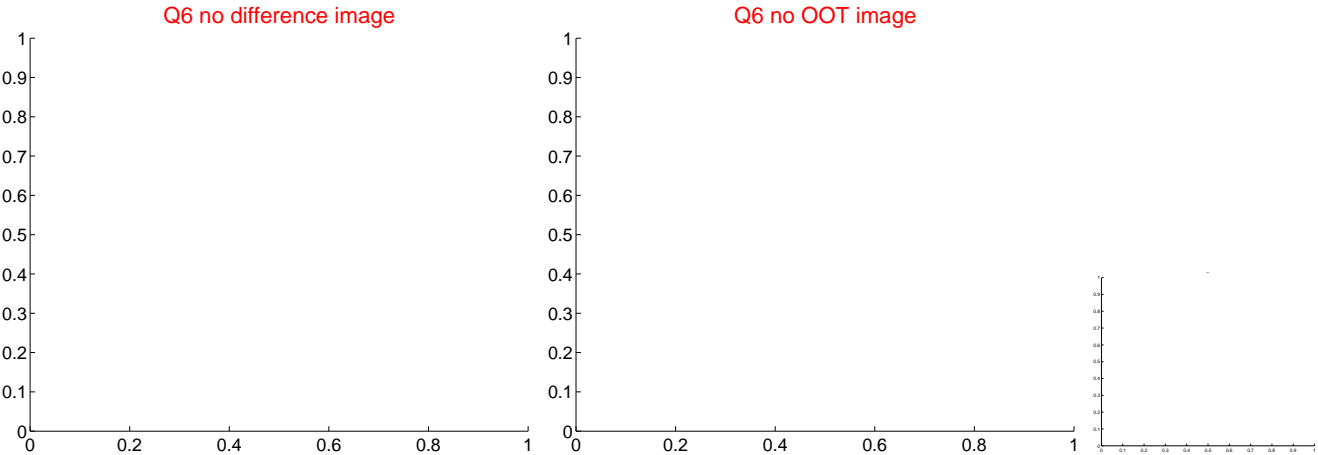
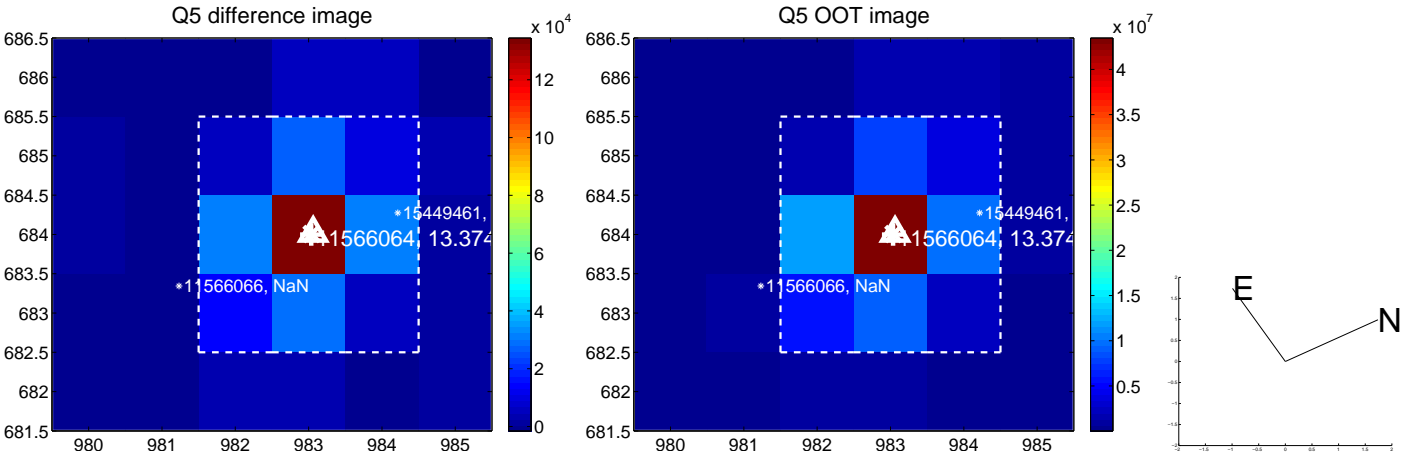


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

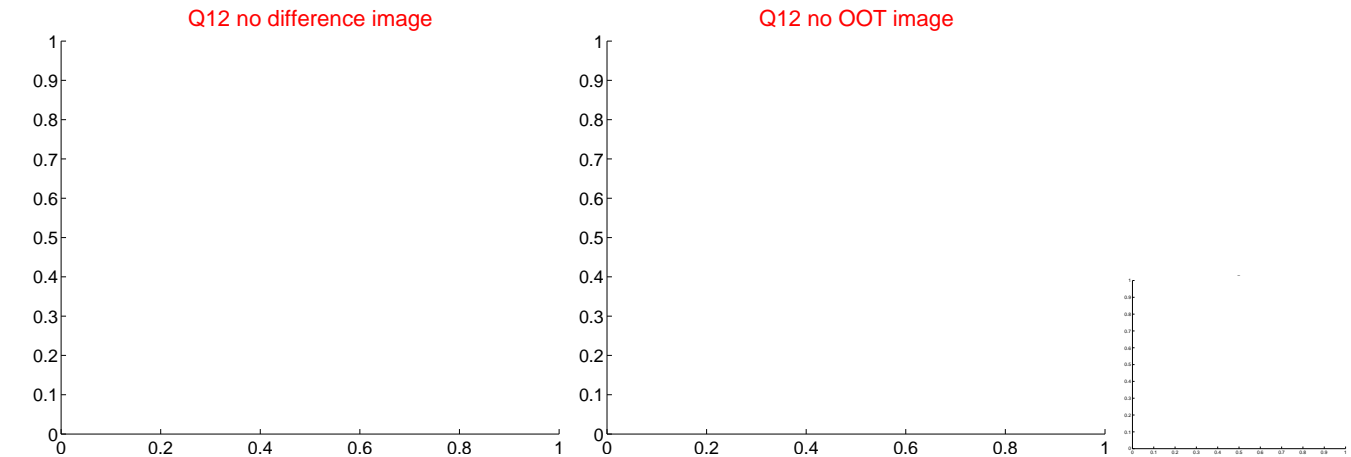
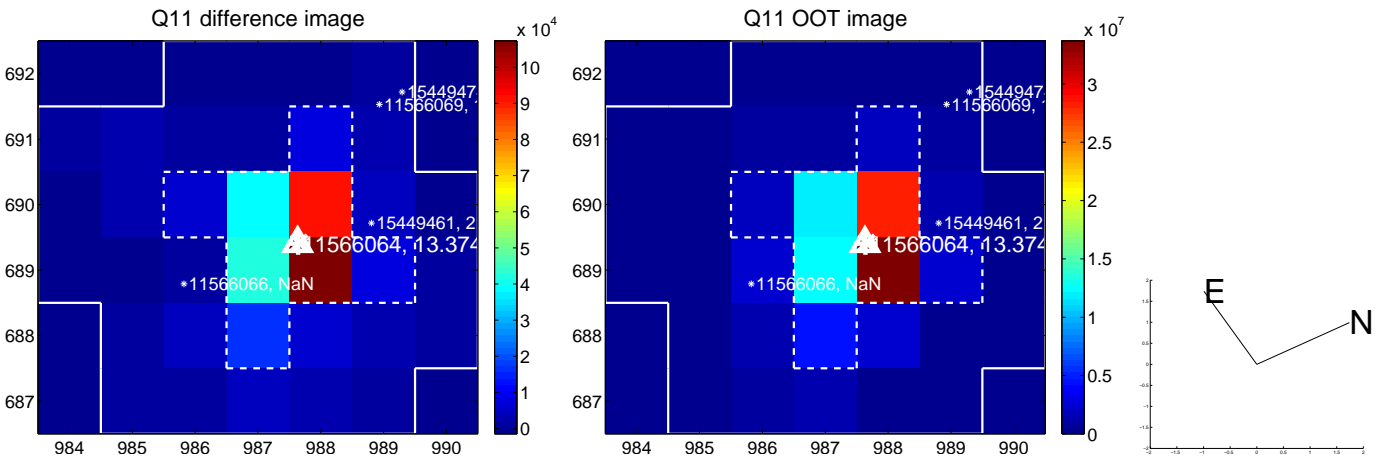
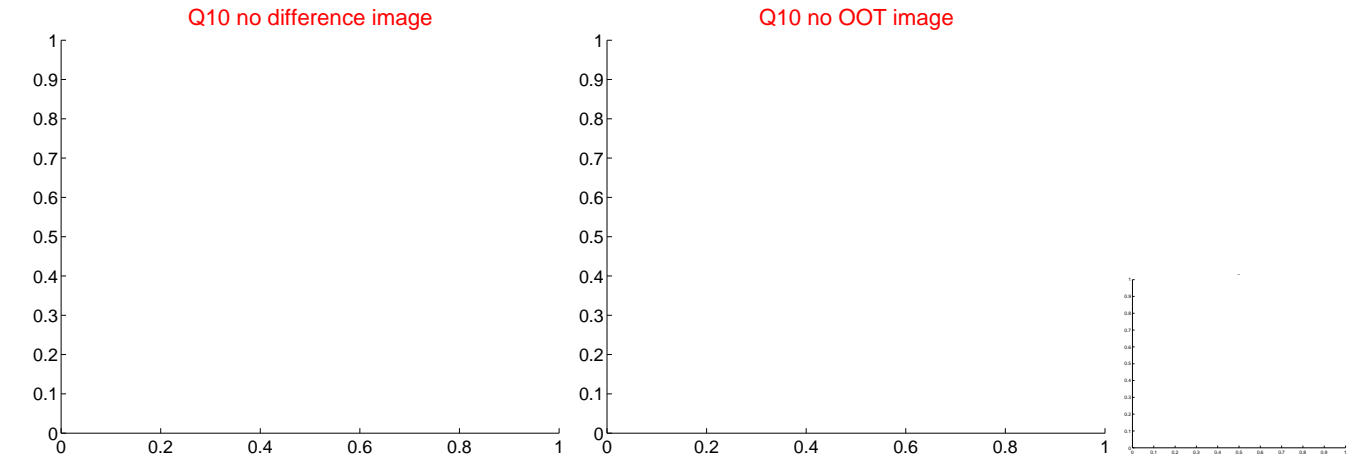
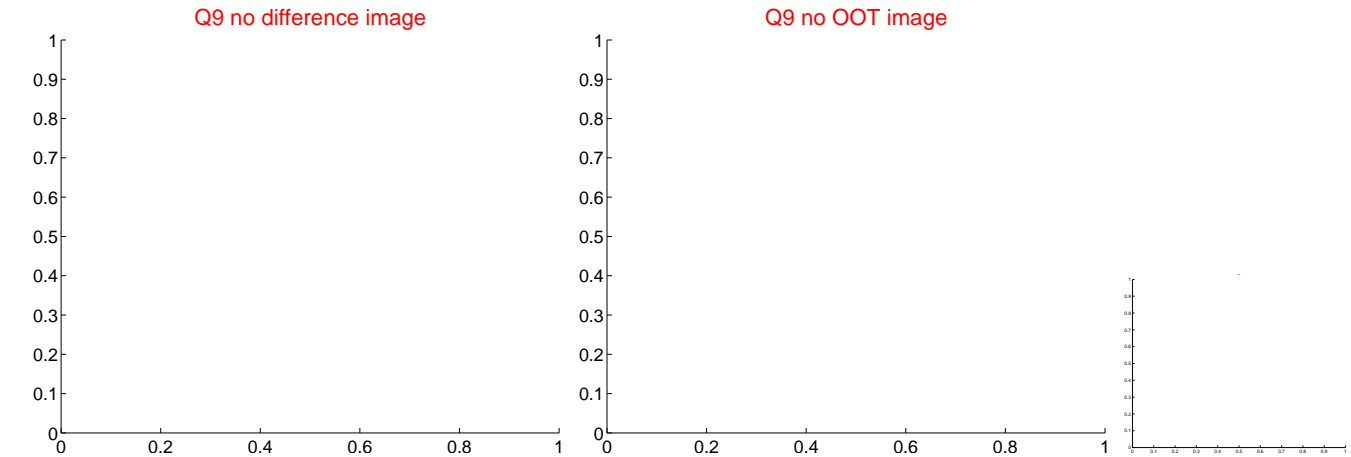
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



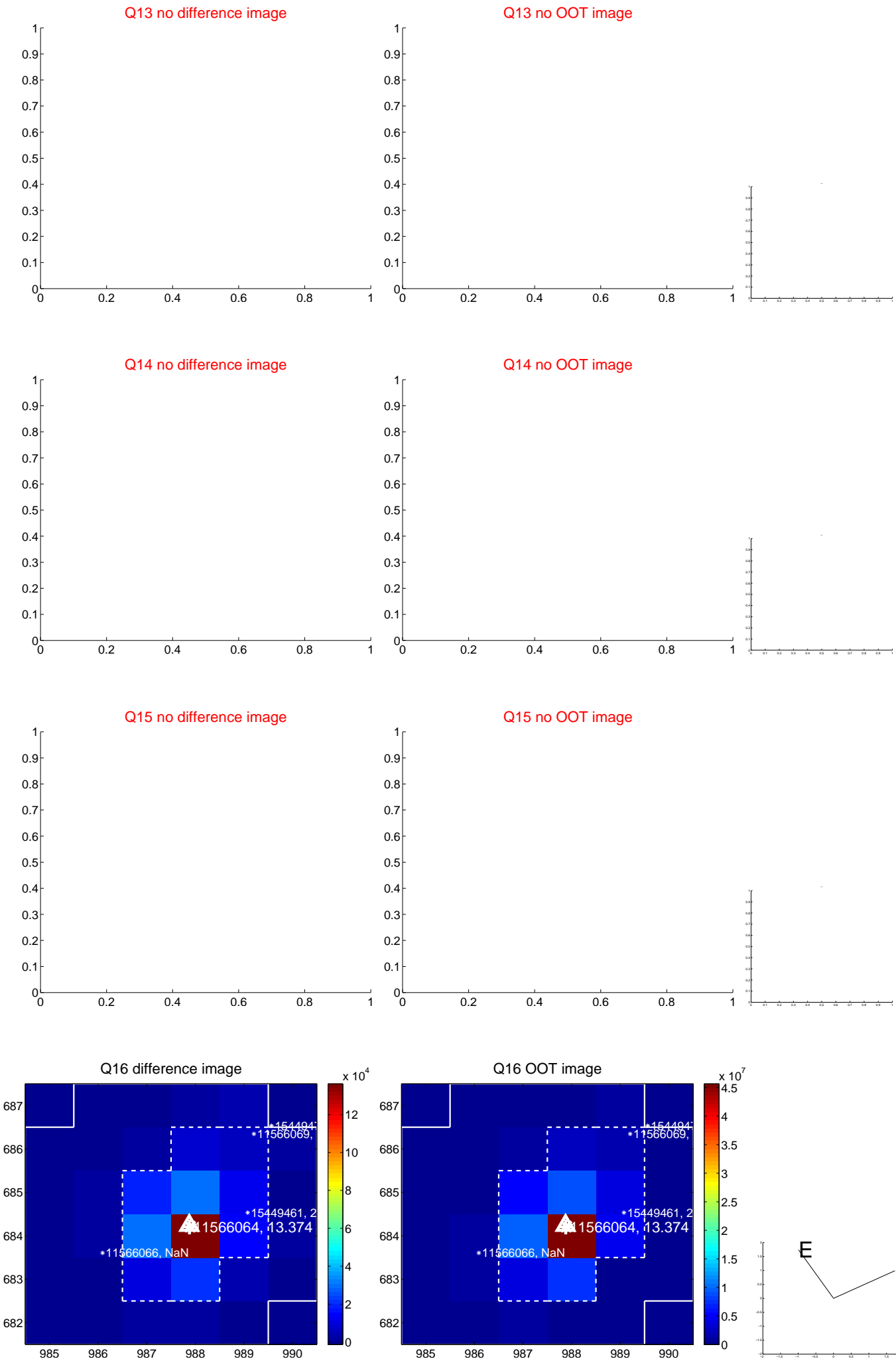
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



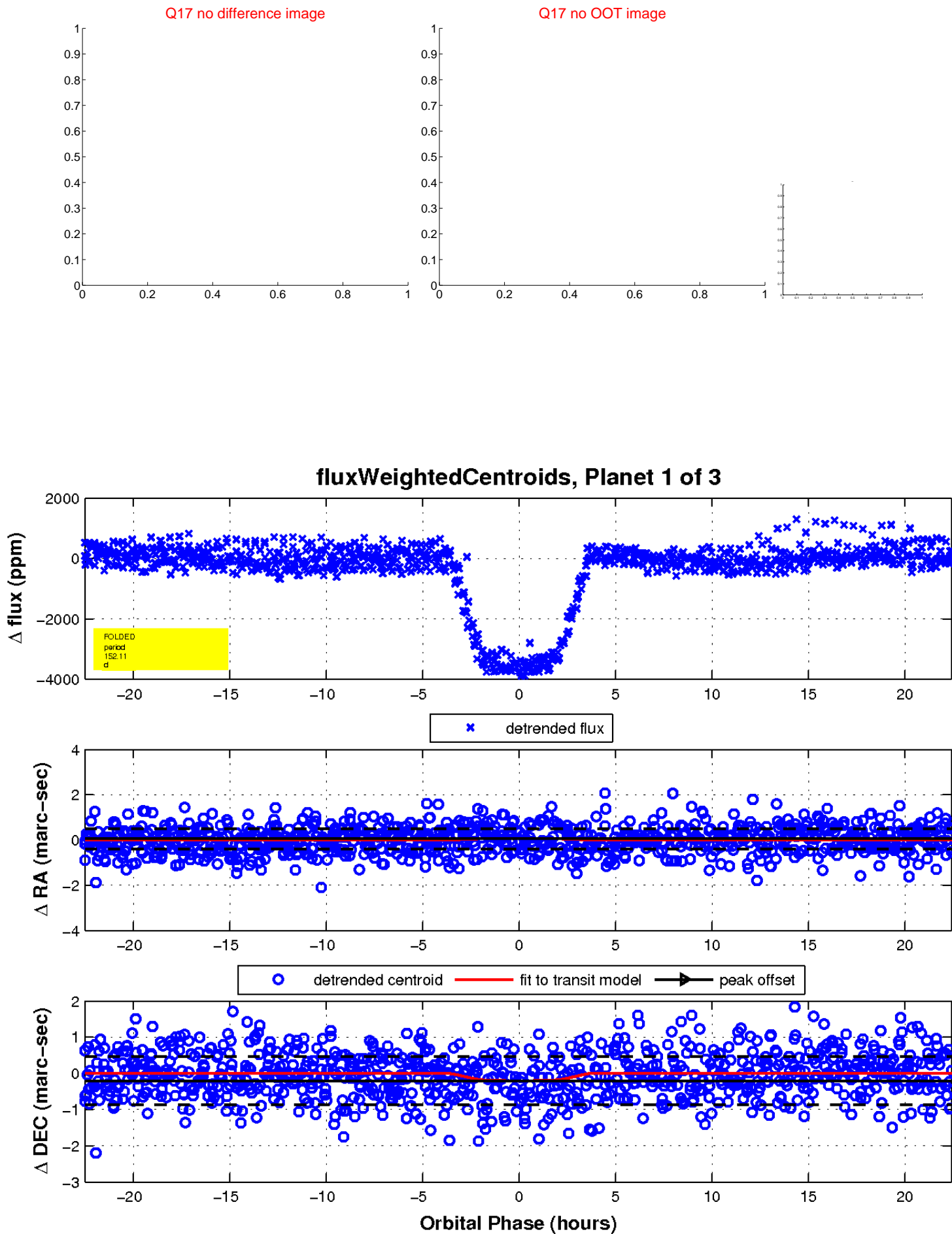
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

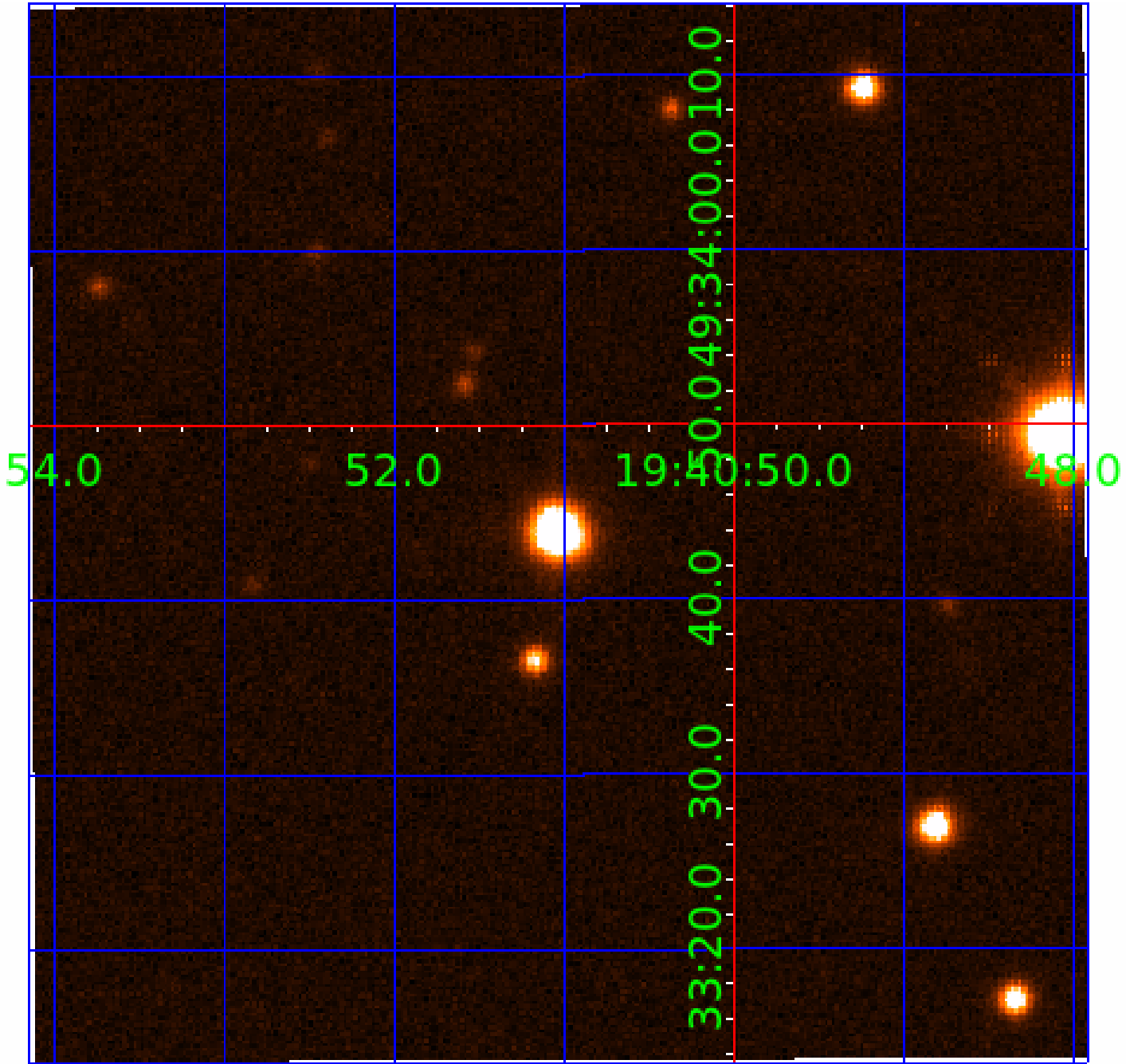


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011566064

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})
011566064-01	OBS	0353.01	152.106106	176.527808	3734.0	7.512	82.5	83.7	1.64	6200	11.67	10.38
011566064-02	OBS	0353.02	30.652820	135.043568	322.1	5.156	17.3	18.5	1.64	6200	3.23	87.85
011566064-03	OBS	0353.03	11.161808	133.559631	91.6	4.951	8.0	8.7	1.64	6200	1.78	337.84

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011566064-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011566064-02	OBS	PC	0.99	0	0	0	0	NO_COMMENT
011566064-03	OBS	PC	0.97	0	0	0	0	NO_COMMENT

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

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

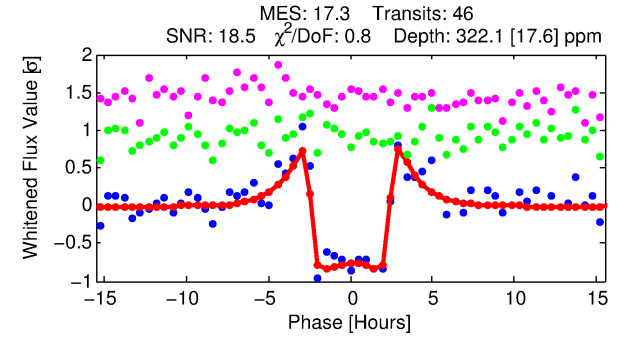
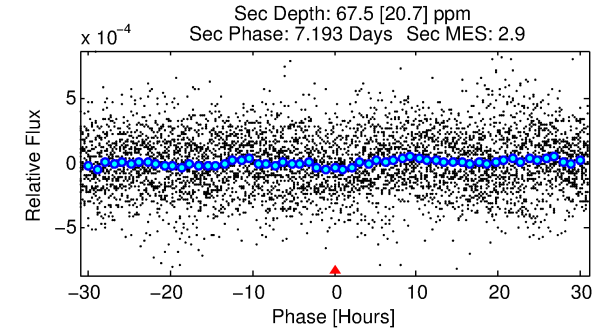
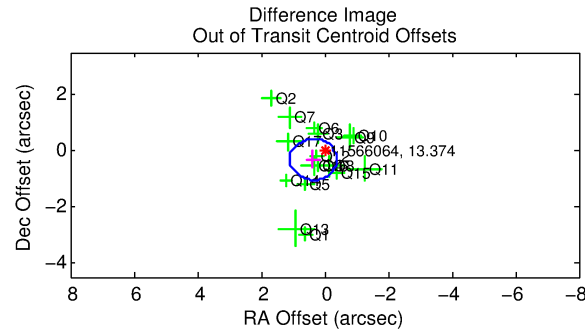
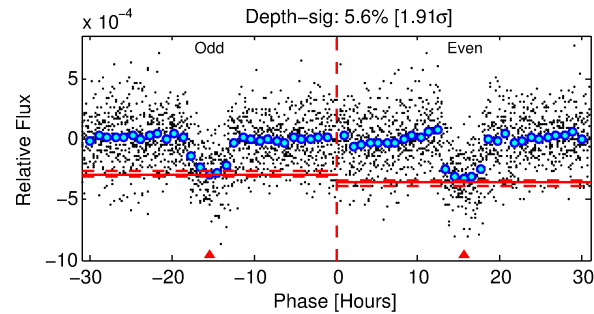
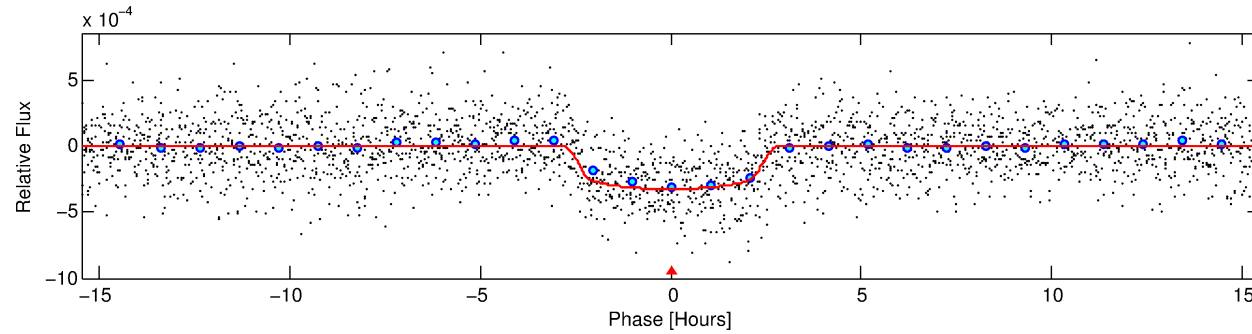
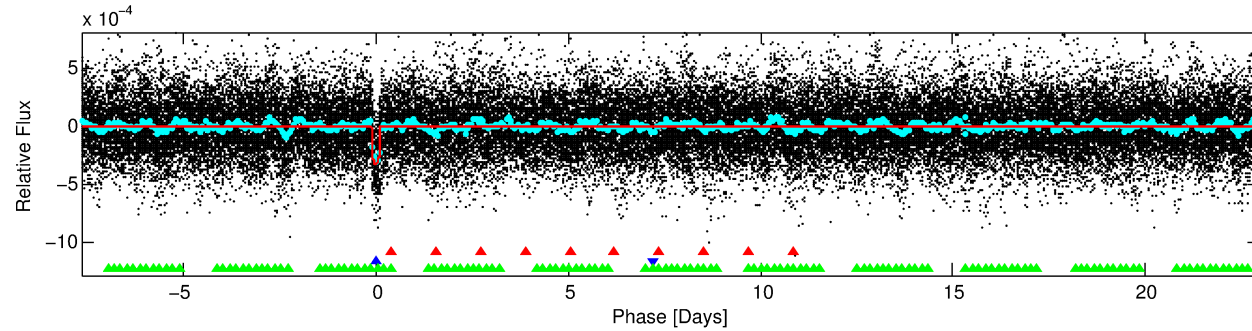
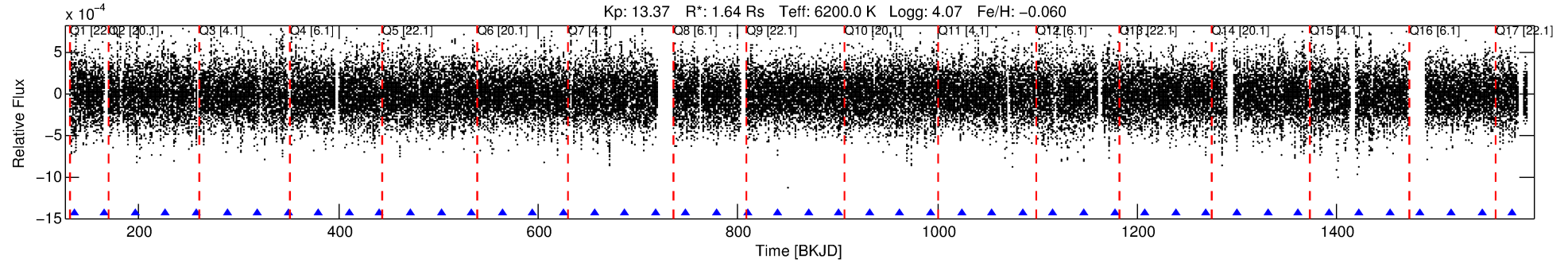
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011566064-02

No Significant Match Found

DV One-Page Summary

KIC: 11566064 Candidate: 2 of 3 Period: 30.653 d
KOI: K00353.02 Corr: 0.975



DV Fit Results:

Period = 30.65282 [0.00011] d
Epoch = 135.0436 [0.0030] BKJD
Rp/R* = 0.0181 [0.0029]
a/R* = 29.53 [23.77]
b = 0.78 [0.40]
Seff = 87.85 [29.02]
Teq = 781 [64] K
Rp = 3.23 [0.86] Re
a = 0.2013 [0.0404] AU
Ag = 143.94 [79.26] [1.80 σ]
Teffp = 4181 [475] K [7.09 σ]

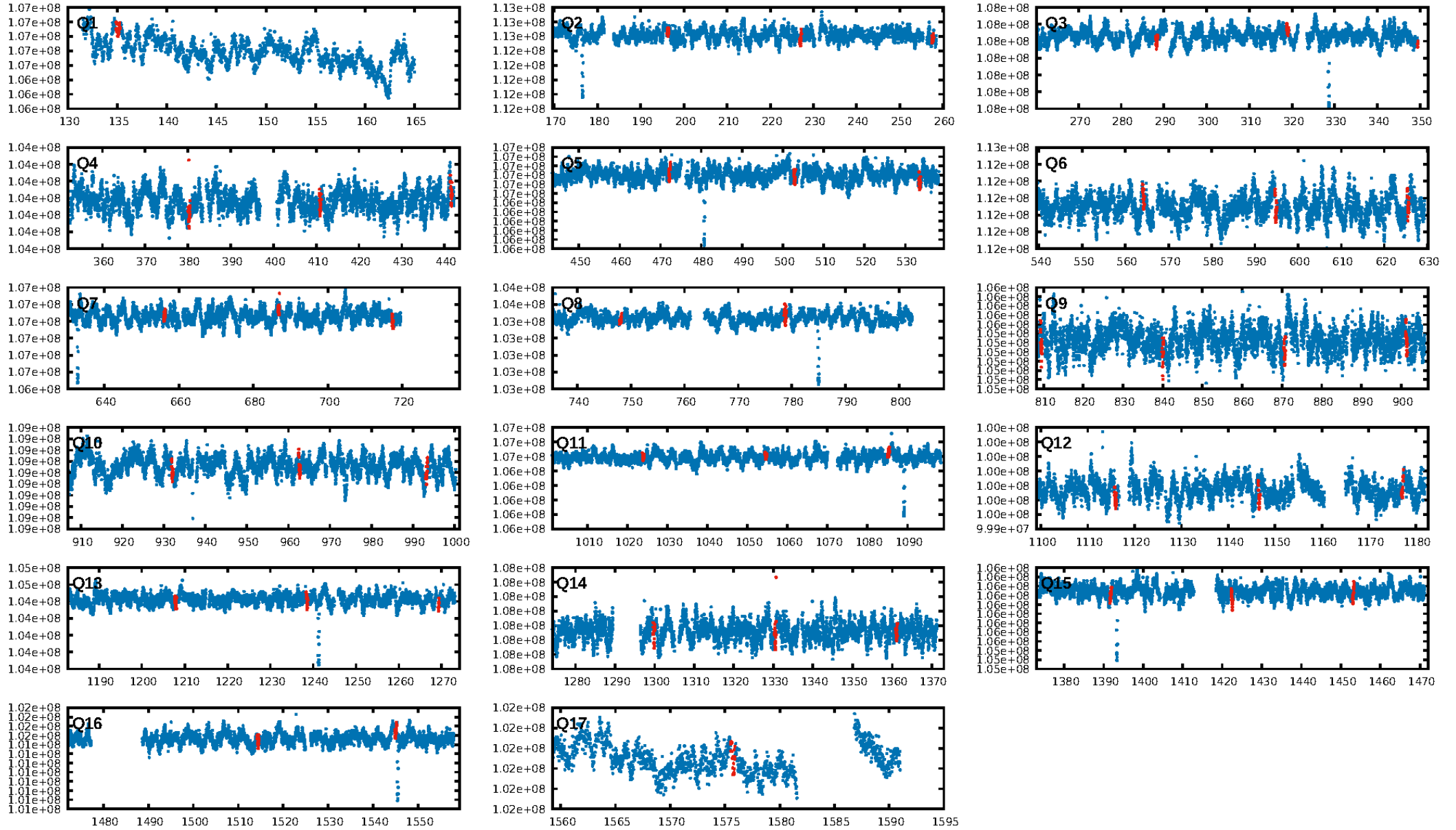
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [65.44 σ]
LongPeriod-sig: 100.0% [319.94 σ]
ModelChiSquare2-sig: 91.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 4.31e-63
RollingBand-fgt: 1.00 [44/44]
GhostDiagnostic-chr: 2.372
Centroid-sig: 59.0%
Centroid-so: 0.285 arcsec [1.02 σ]
OotOffset-rm: 0.476 arcsec [1.94 σ]
KicOffset-rm: 0.506 arcsec [1.86 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
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DiffImageOverlap-fno: 1.00 [17/17]

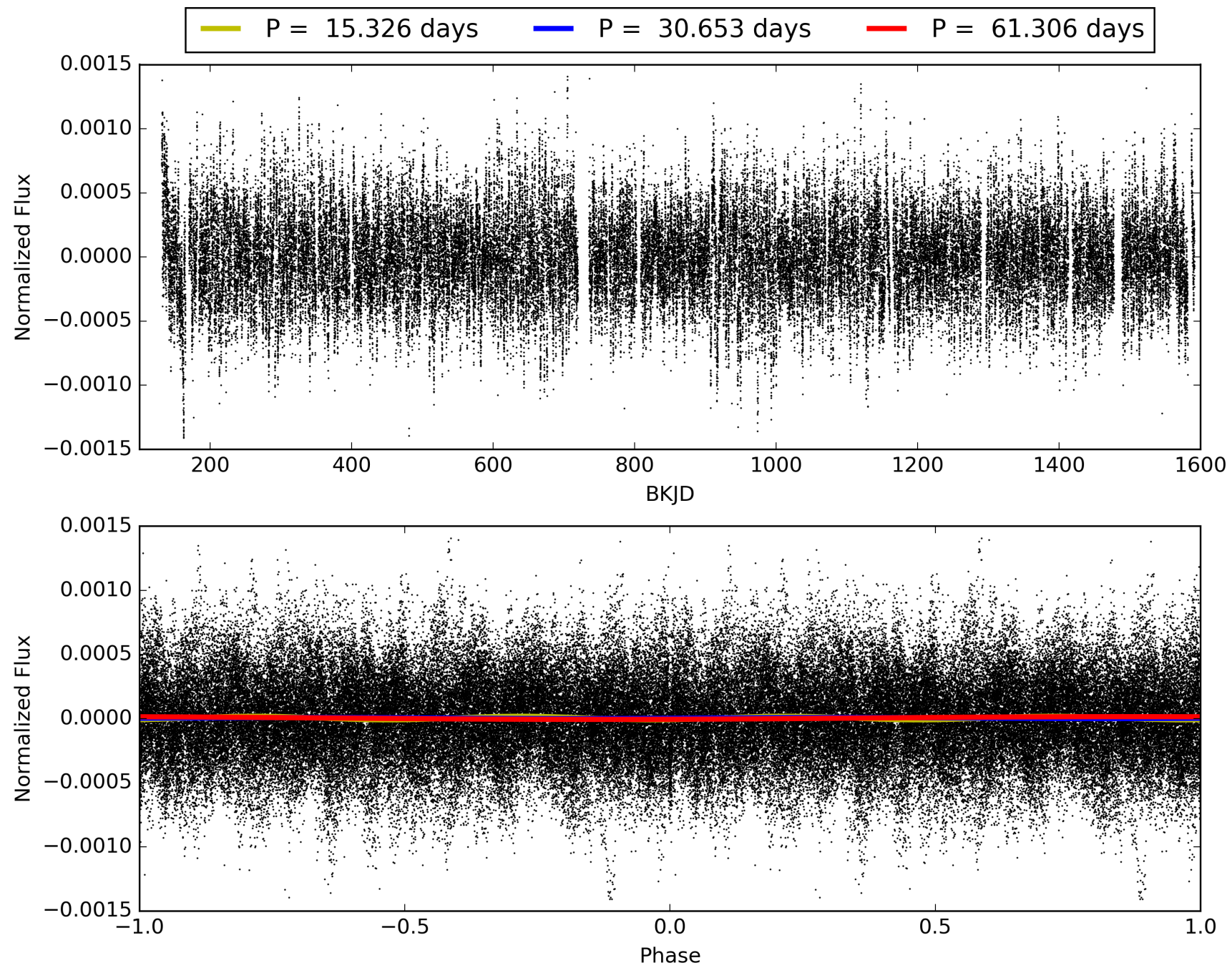
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 05:05:22 Z

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

TCE 011566064-02, PDC Light Curves

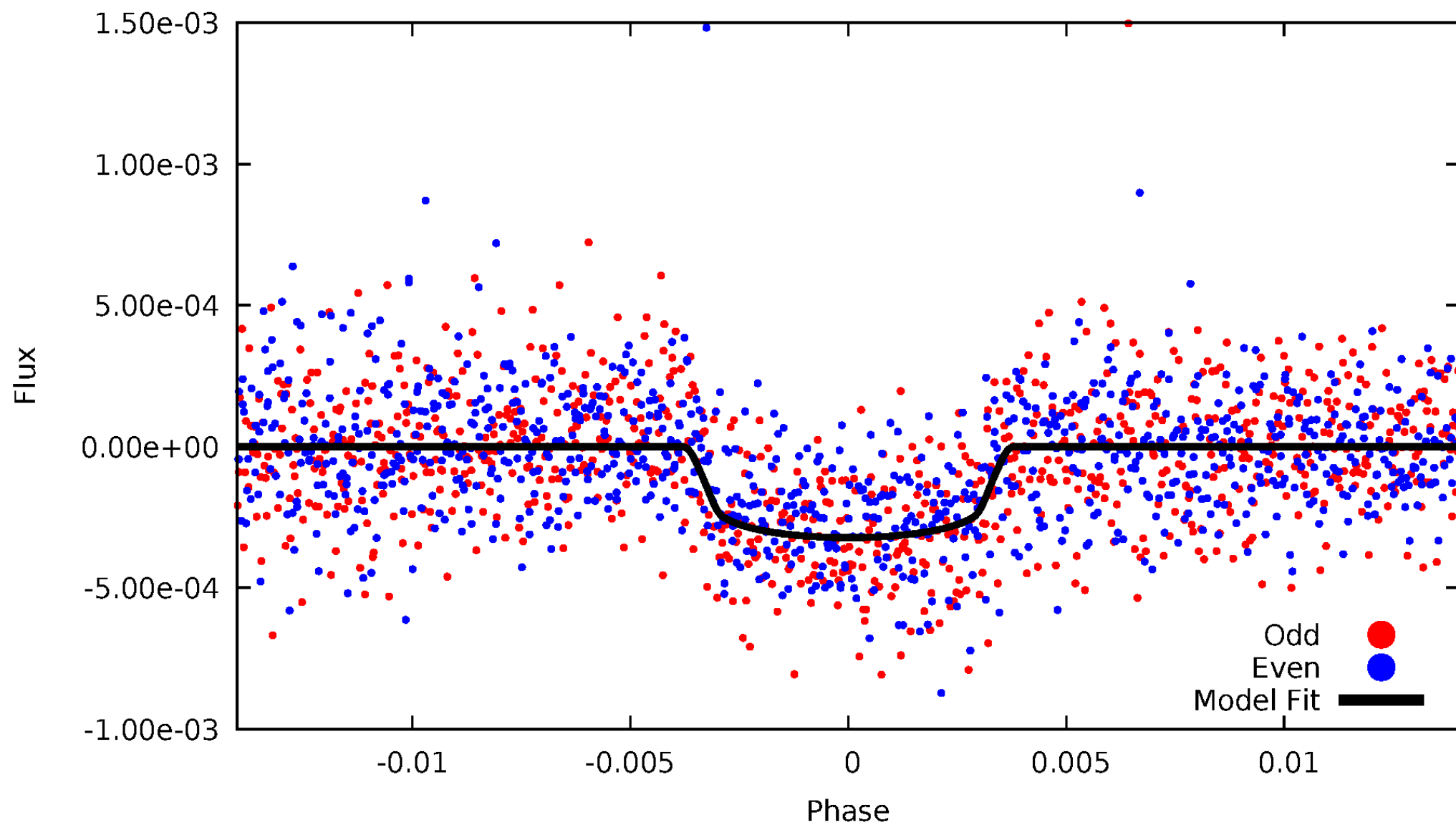


TCE 011566064-02



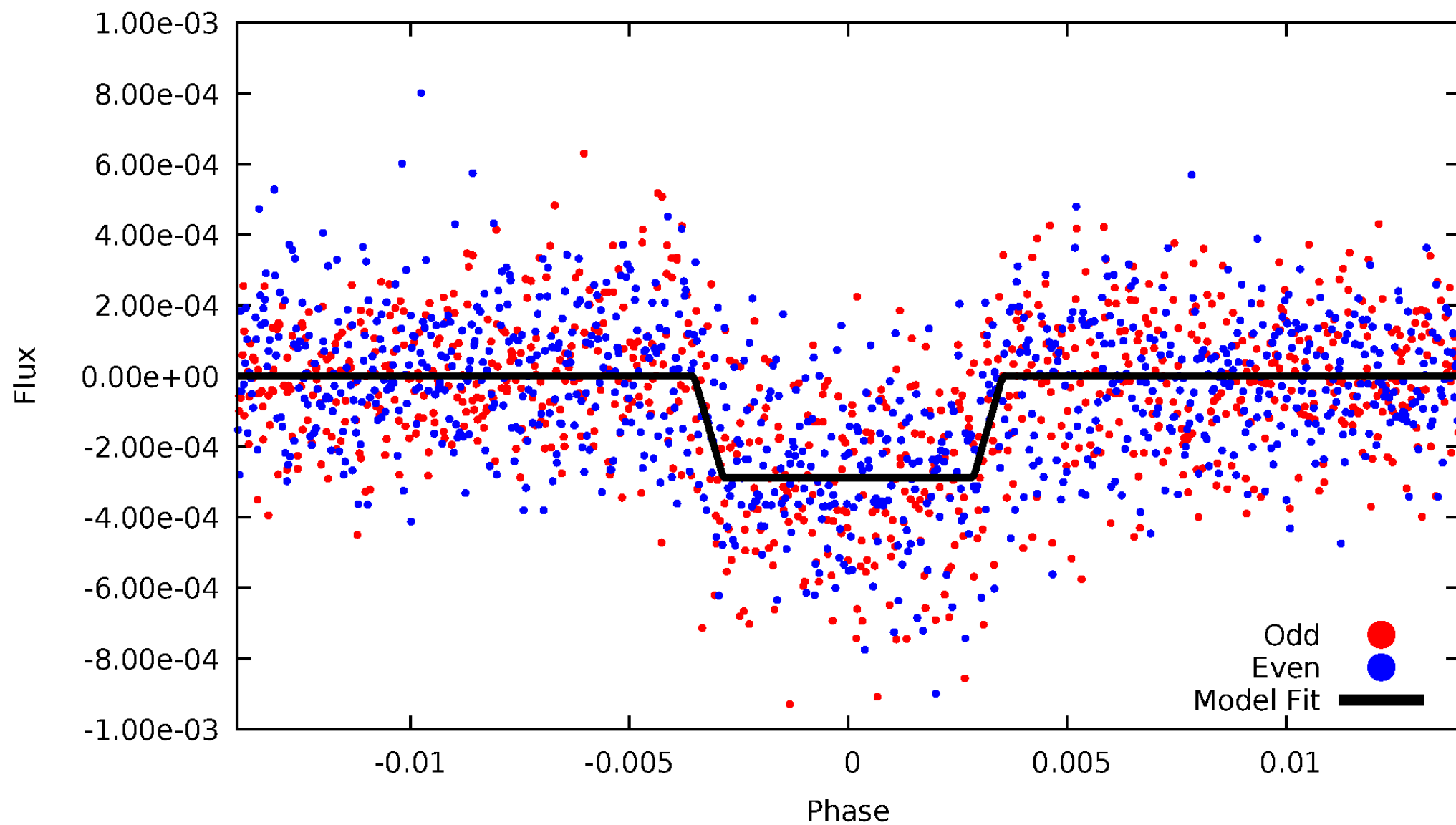
DV Odd/Even

TCE 011566064-02



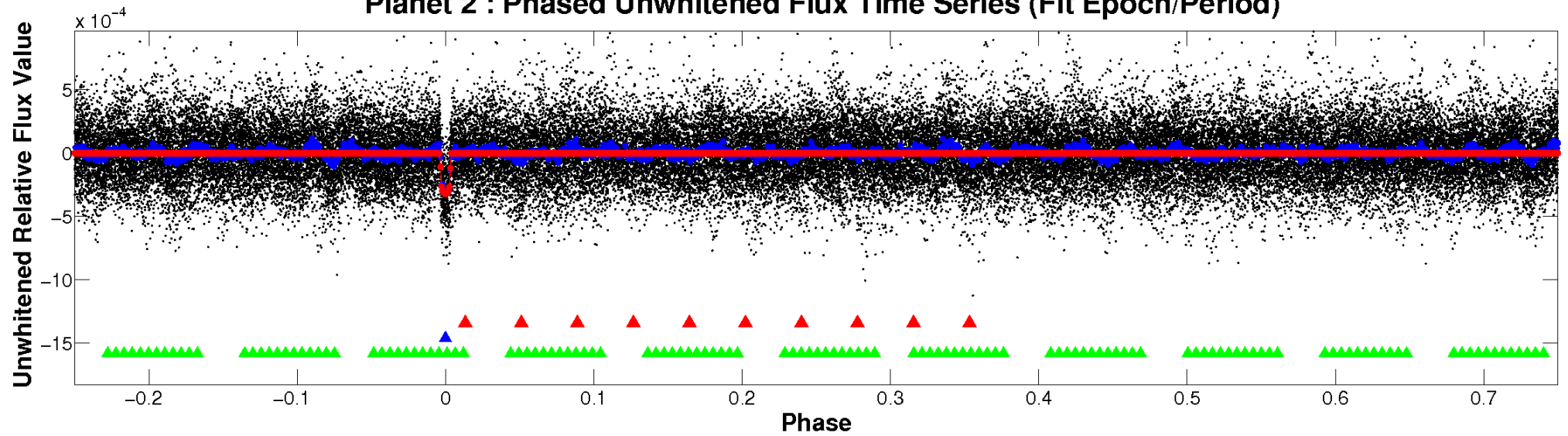
ALT Odd/Even

TCE 011566064-02

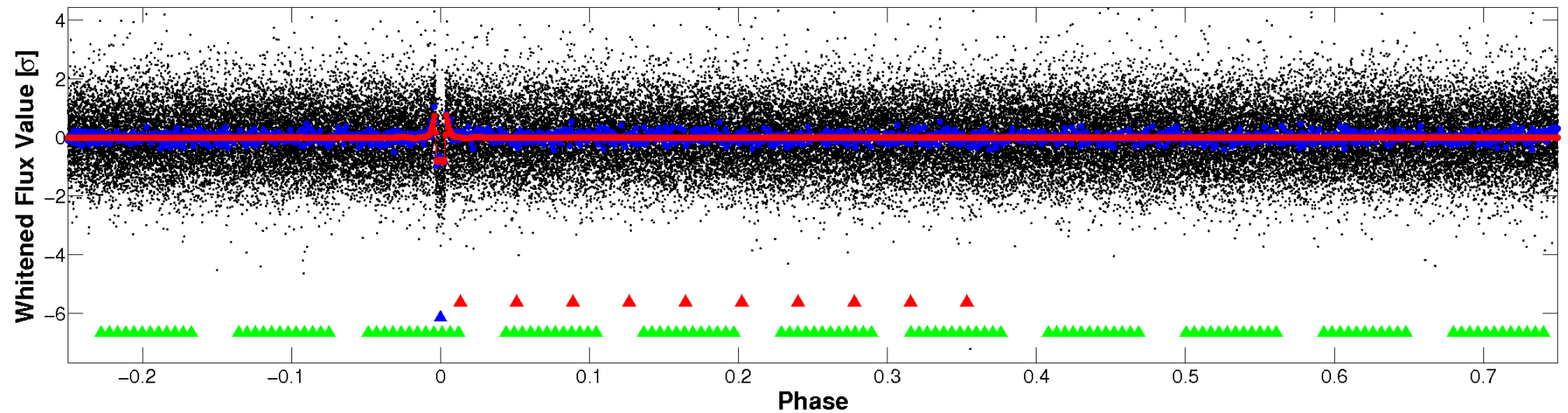


Non-Whitened Vs. Whitened Light Curve

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

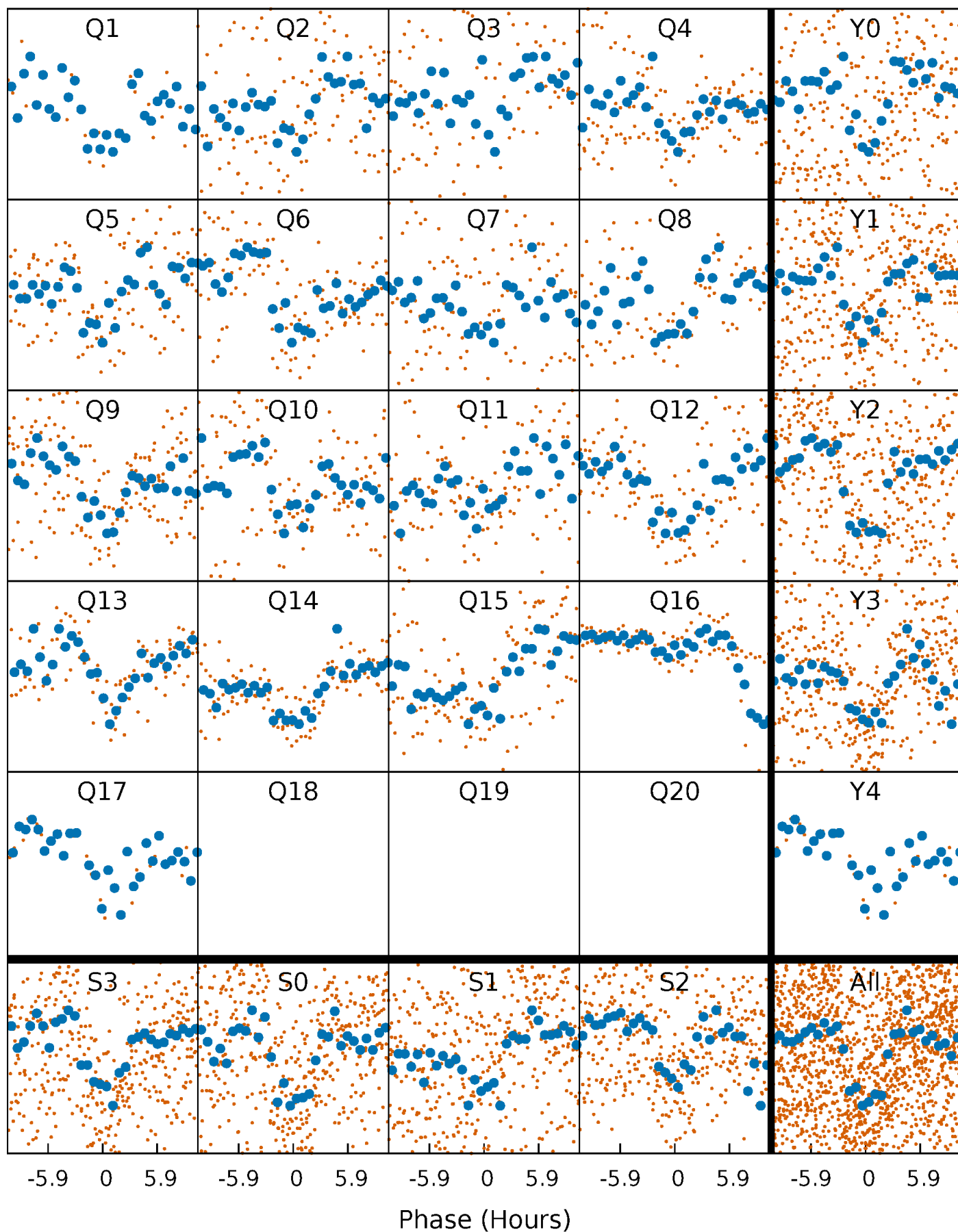


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



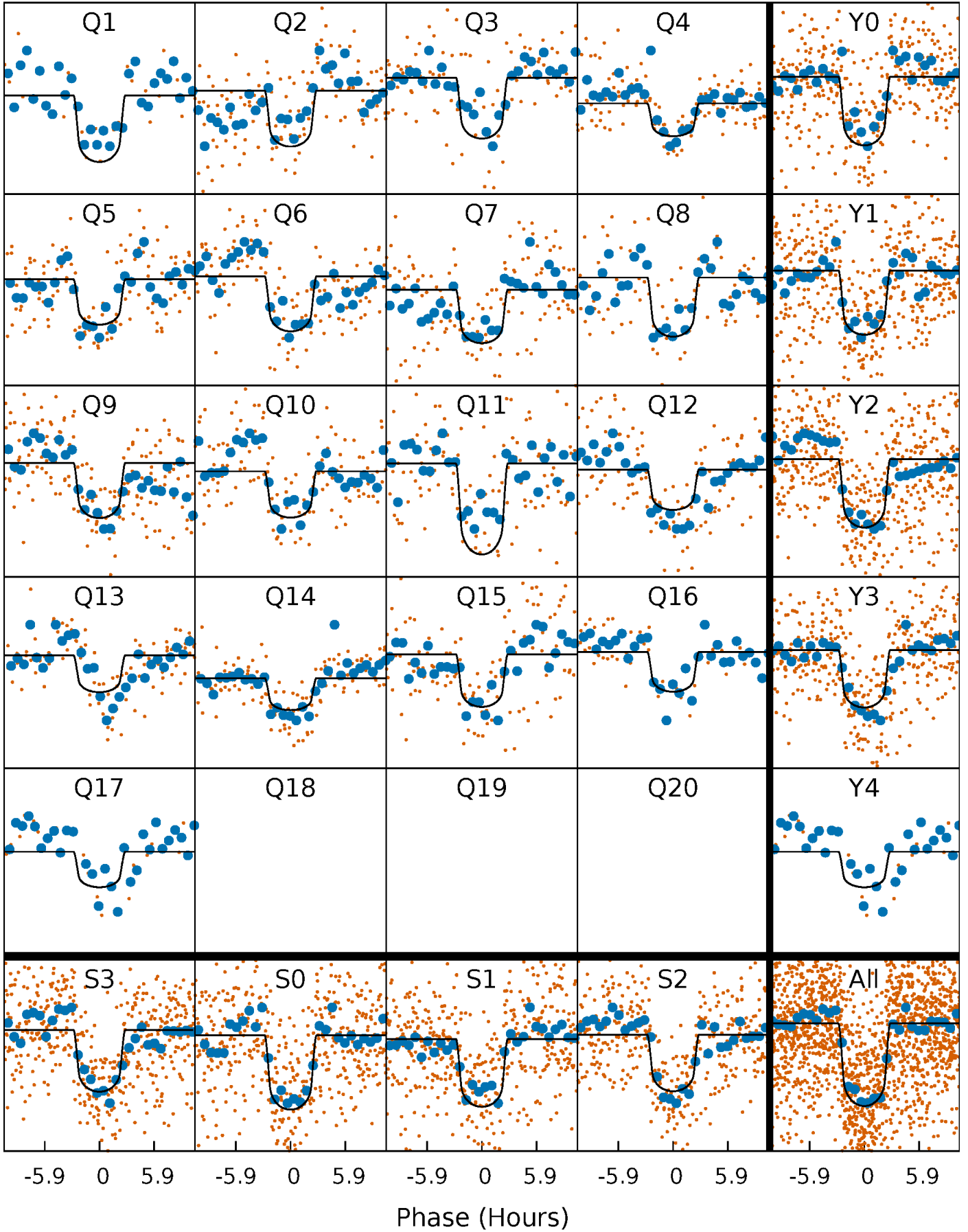
PDC Quarter-Phased Transit Curves

TCE 011566064-02 P= 30.652820 Days $T_0=135.043568$ (BKJD)



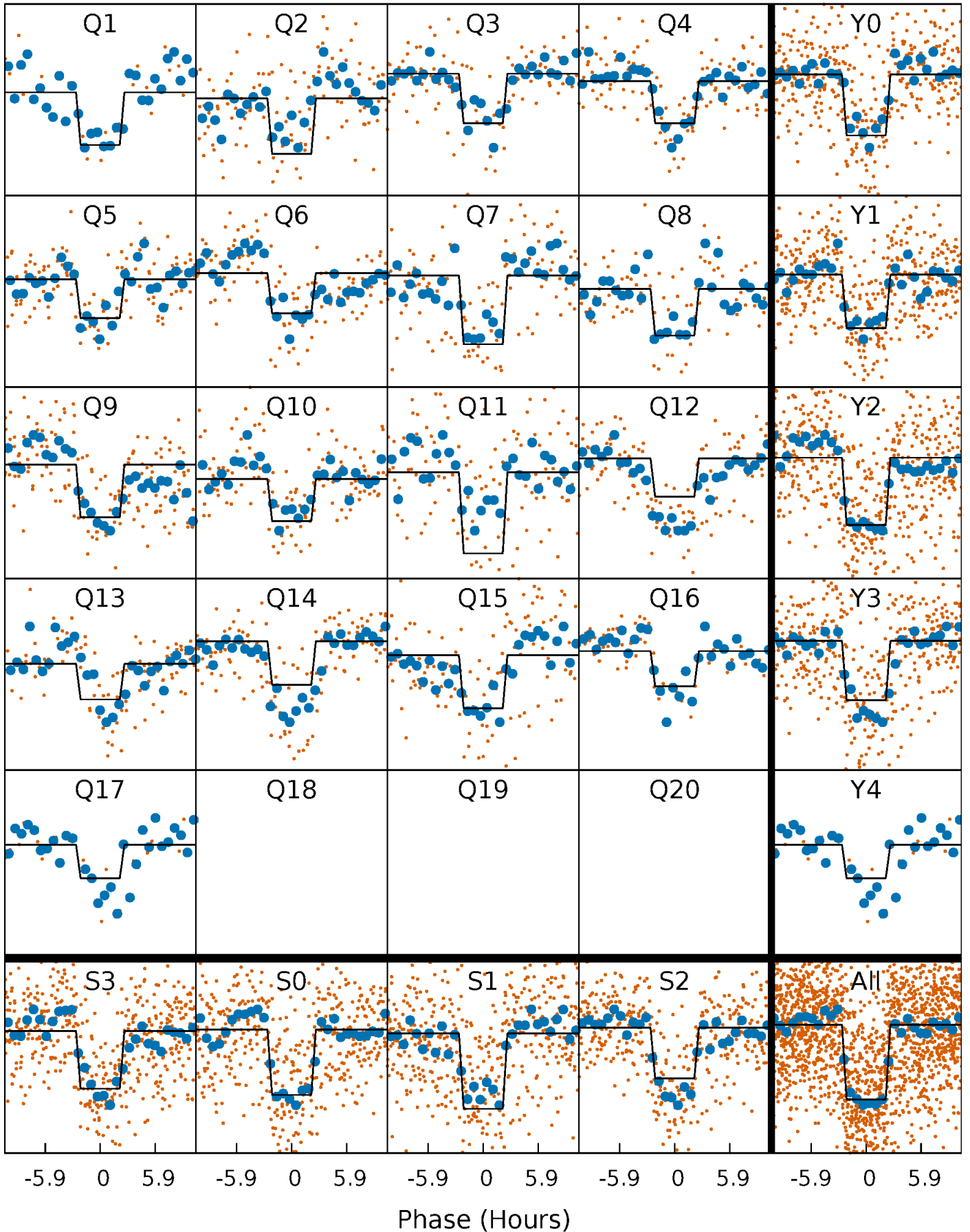
DV Quarter-Phased Transit Curves

TCE 011566064-02 P= 30.652820 Days $T_0=135.043568$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

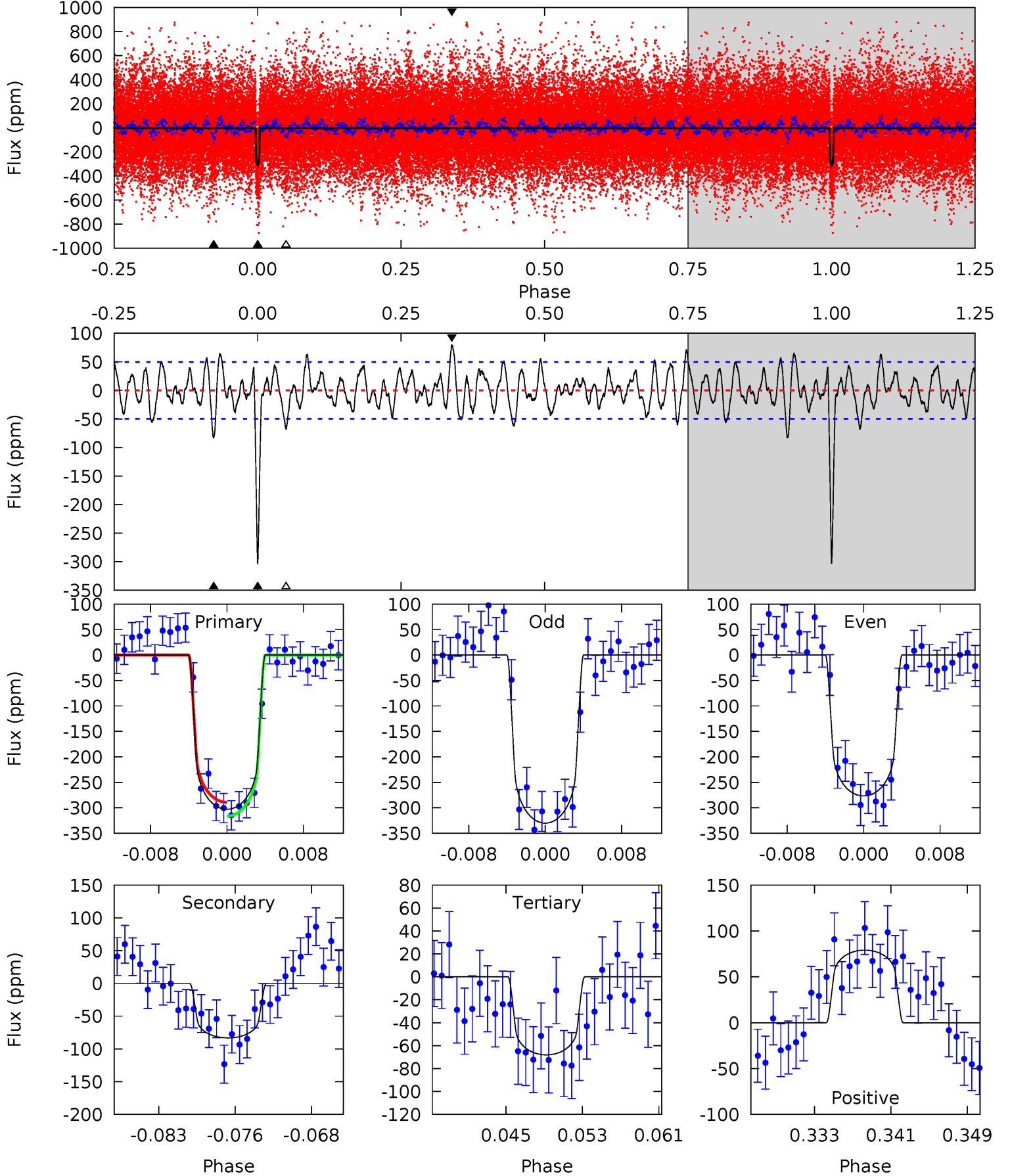
TCE 011566064-02 P= 30.652920 Days $T_0=135.043325$ (BKJD)



DV Model-Shift Uniqueness Test

011566064-02, P = 30.652820 Days, E = 104.390748 Days

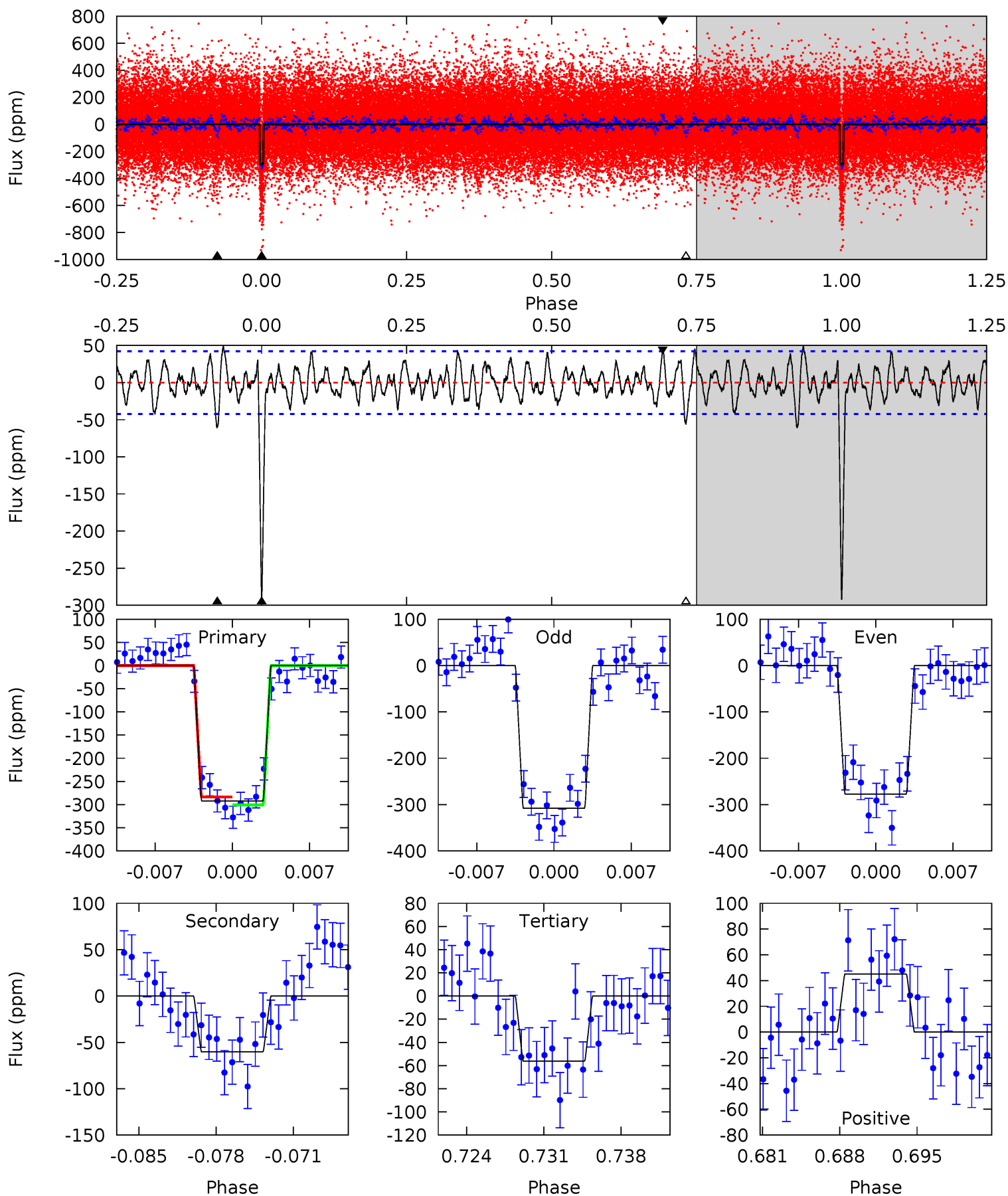
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
31.0	8.50	6.96	8.09	5.08	2.67	2.65	24.0	22.9	1.55	0.42	2.73	0.98	0.21	1.38



Alt Model-Shift Uniqueness Test

011566064-02, $P = 30.652920$ Days, $E = 104.390405$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
35.2	7.26	6.77	5.42	5.09	2.69	2.05	28.4	29.8	0.50	1.84	1.85	1.04	0.14	1.04



Stellar Parameters For KIC 011566064

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6200^{+124}_{-124}	$4.072^{+0.188}_{-0.101}$	$-0.060^{+0.150}_{-0.150}$	$1.640^{+0.281}_{-0.343}$	$1.158^{+0.140}_{-0.105}$	$0.370^{+0.361}_{-0.128}$
	+2%/-2%	+5%/-2%	+250%/-250%	+17%/-21%	+12%/-9%	+98%/-34%
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 011566064-02 / KOI 0353.02

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-83 ± 10	$3.20^{+0.58}_{-0.62}$	1081^{+55}_{-63}	4566^{+353}_{-284}	186^{+96}_{-61}
Alt.	-60 ± 8	$2.97^{+0.67}_{-0.60}$	1080^{+55}_{-63}	4390^{+352}_{-279}	153^{+94}_{-54}

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 $A_{obs} \gg 1.0$

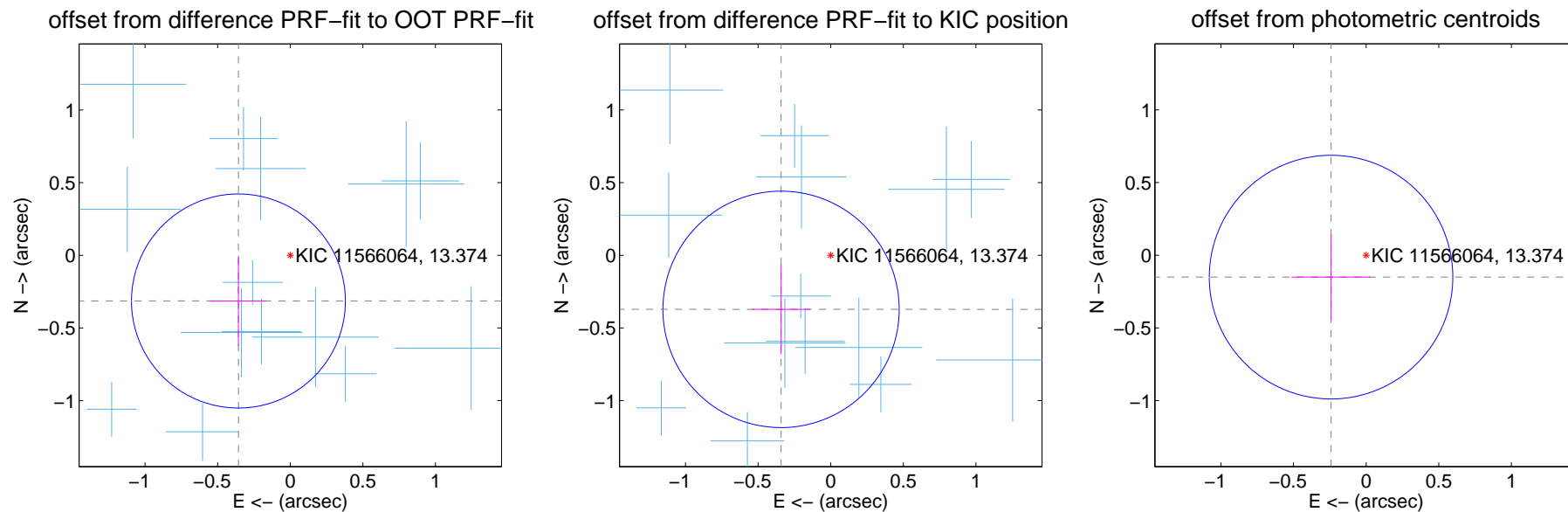
DV Centroid Data

Supplemental centroid analysis for 011566064-02. Kepler magnitude: 13.37. Transit SNR 18.47

There are 17 quarters with good PRF difference image offsets

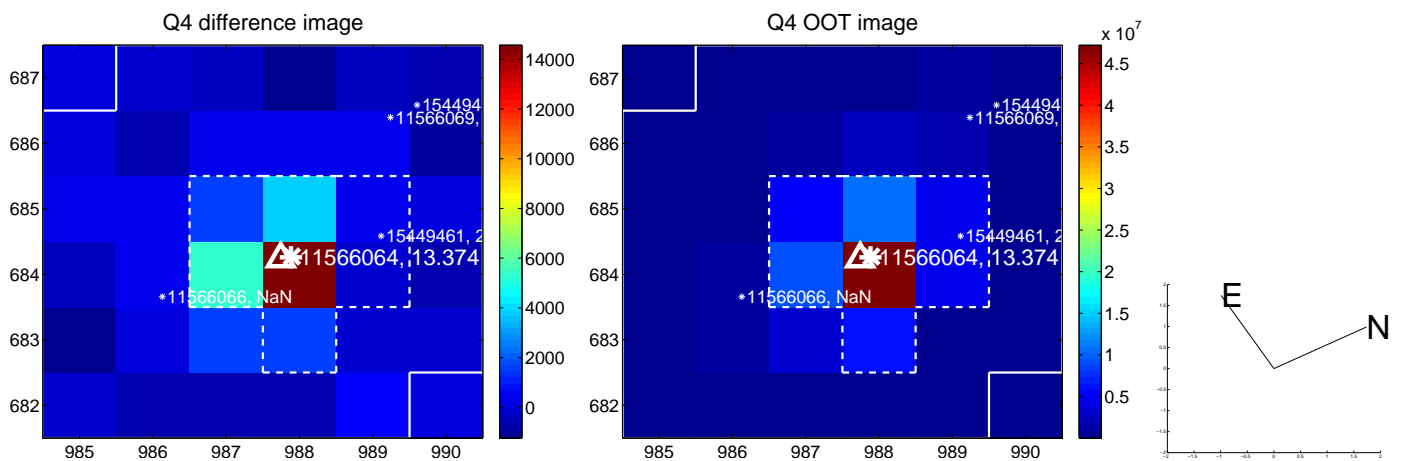
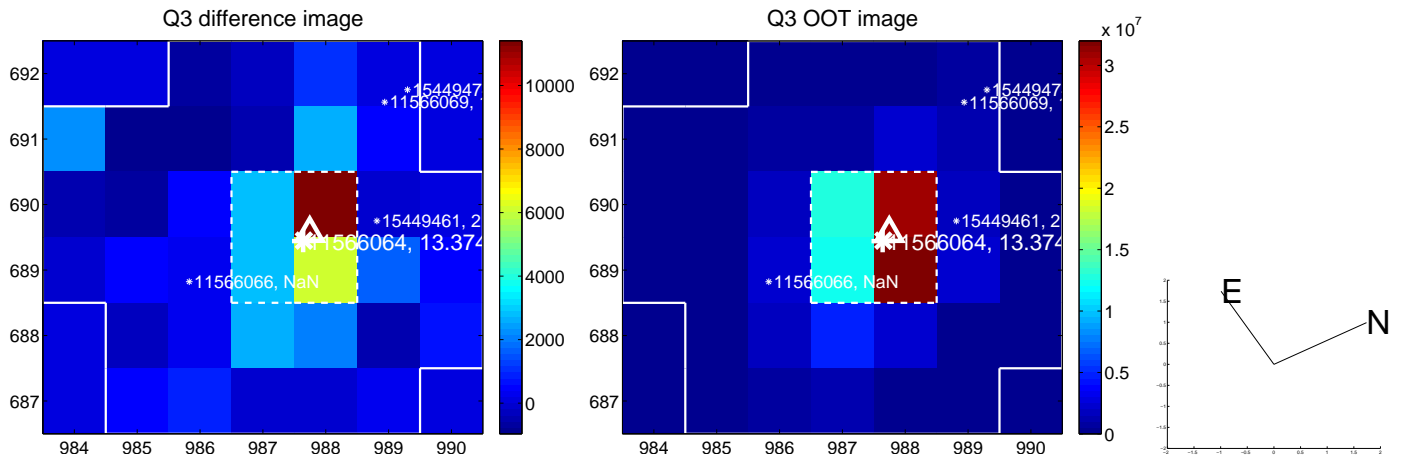
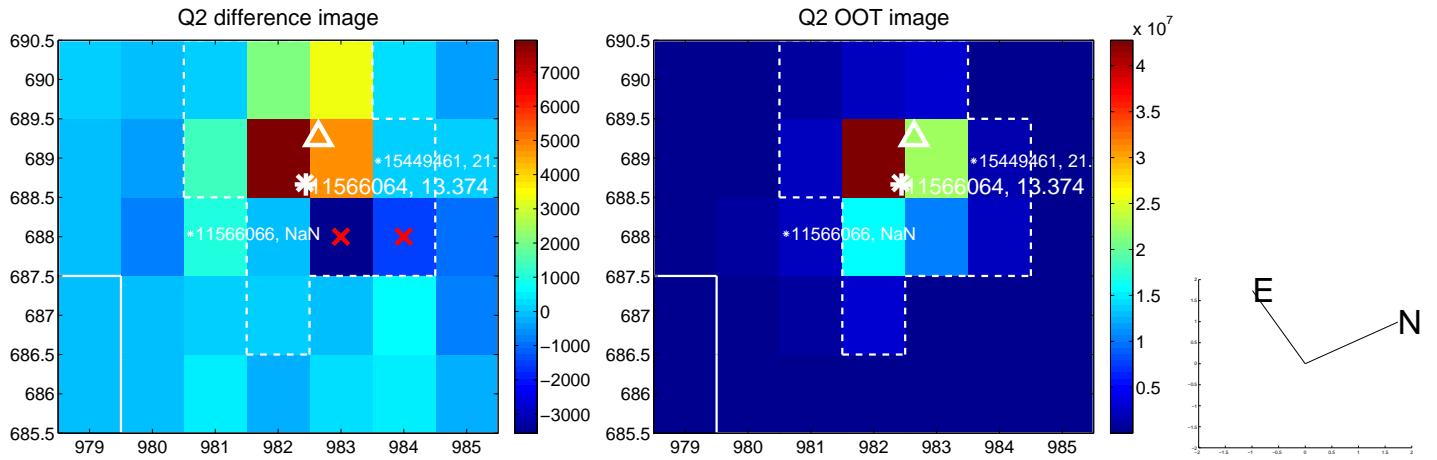
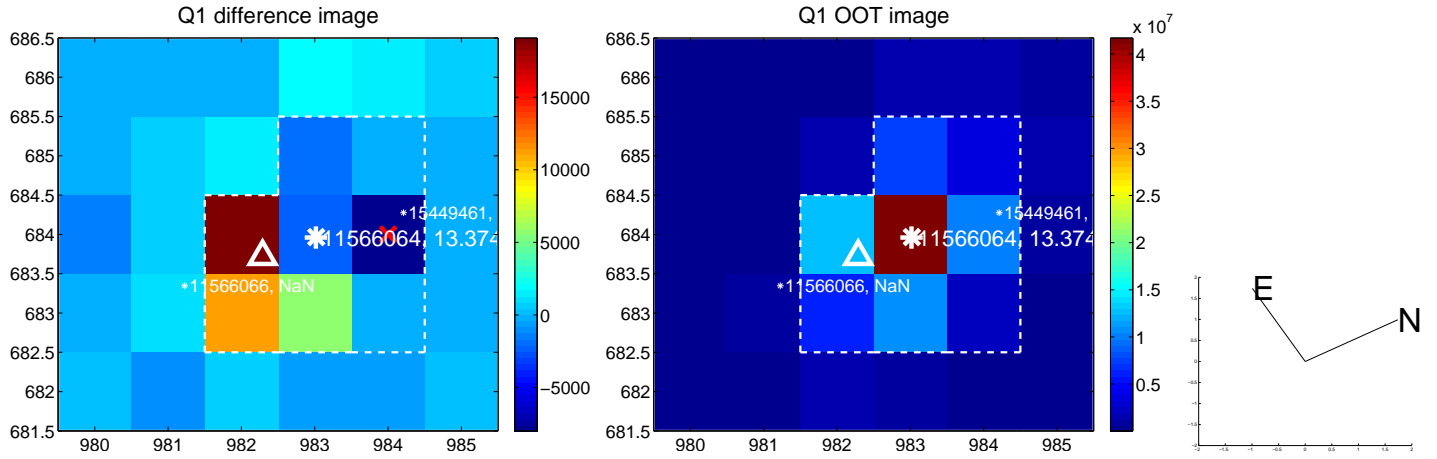
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.476 ± 0.246	1.94	0.357 ± 0.194	-0.315 ± 0.310
PRF-fit source offset from KIC position	0.506 ± 0.271	1.86	0.342 ± 0.200	-0.372 ± 0.311
photometric centroid source offset	0.28 ± 0.28	1.02	0.24 ± 0.27	-0.15 ± 0.30

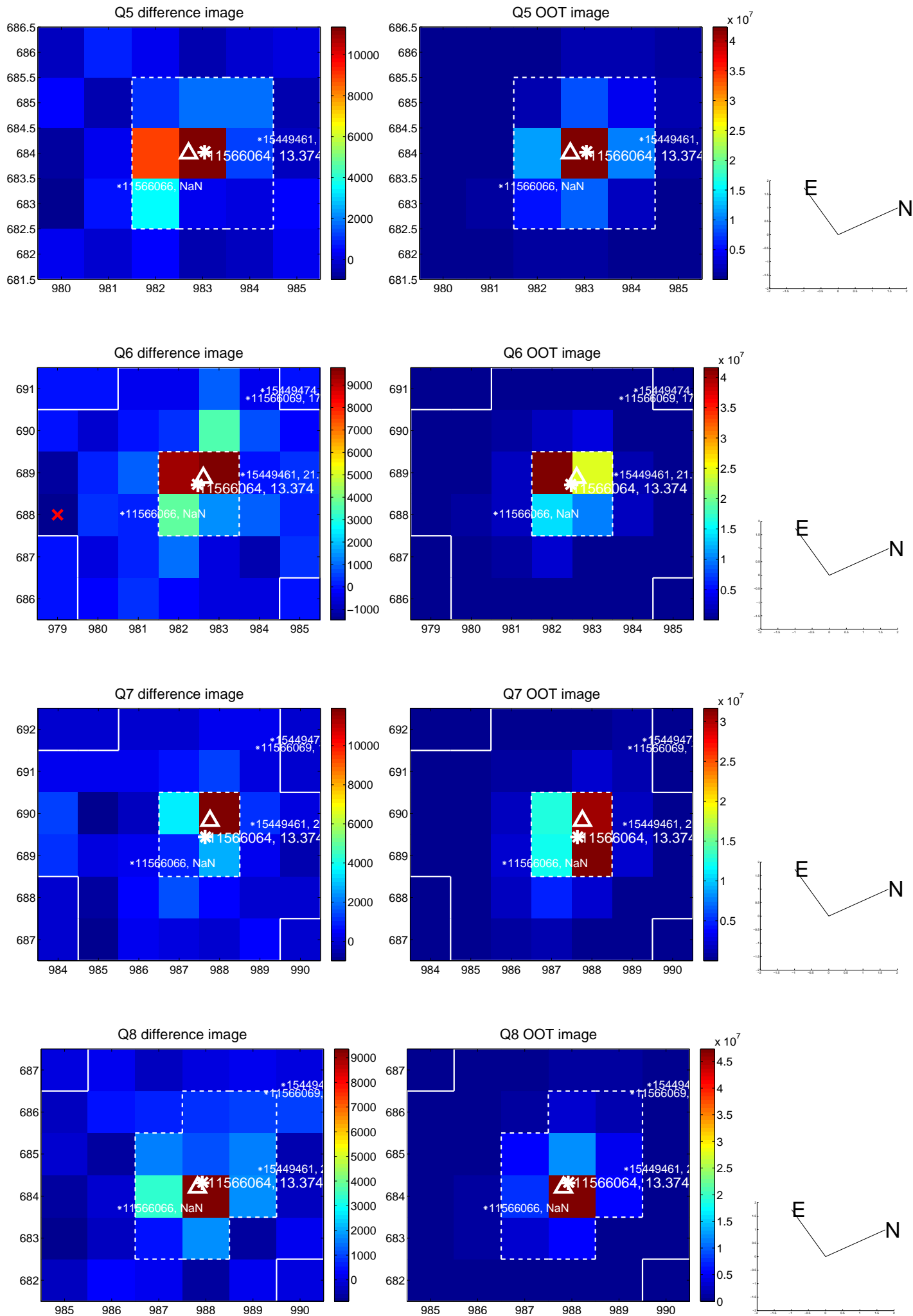


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

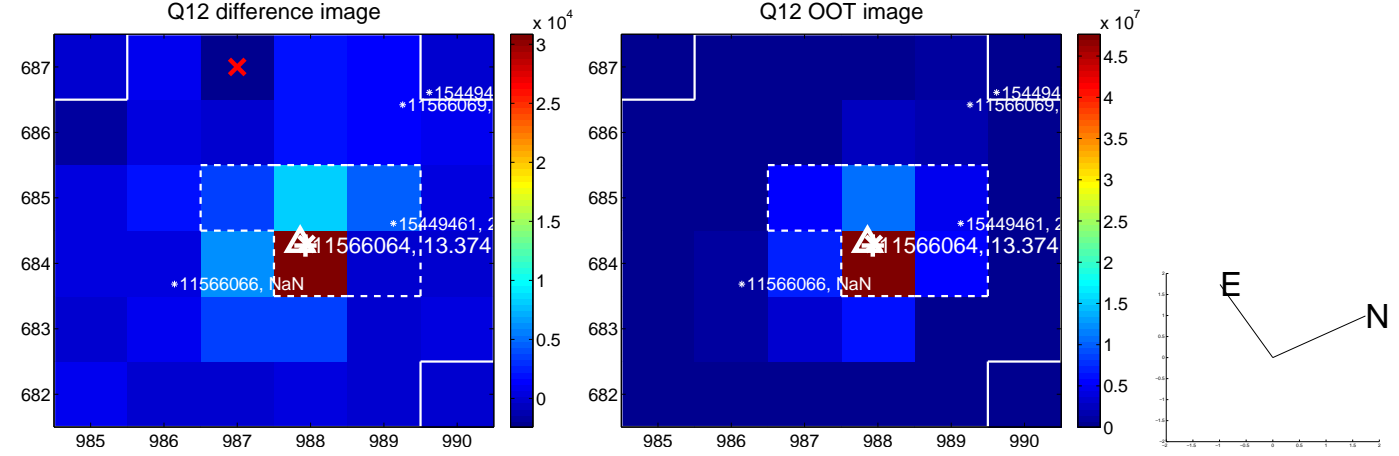
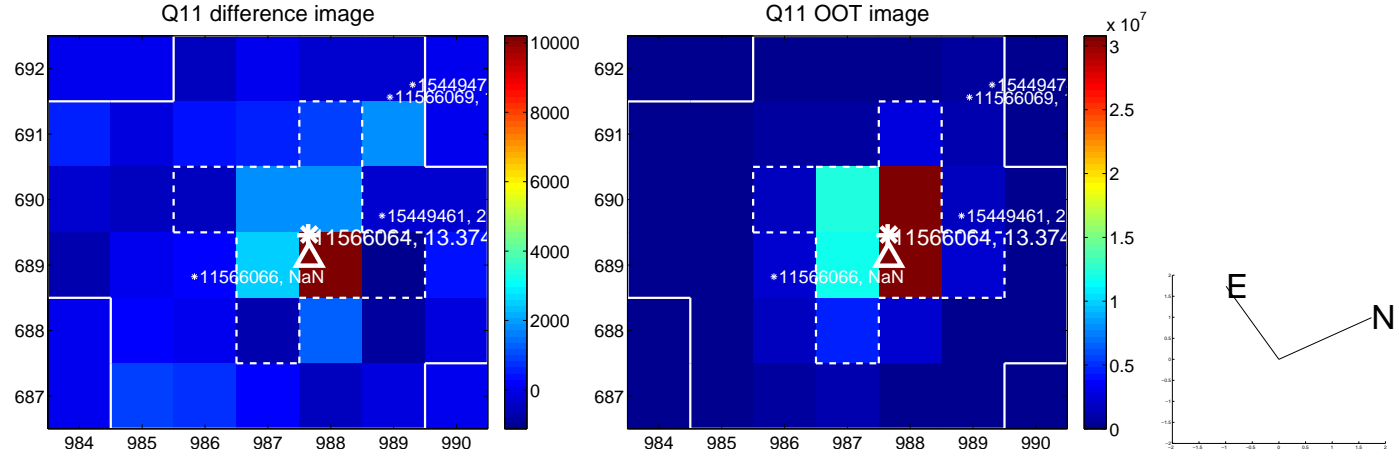
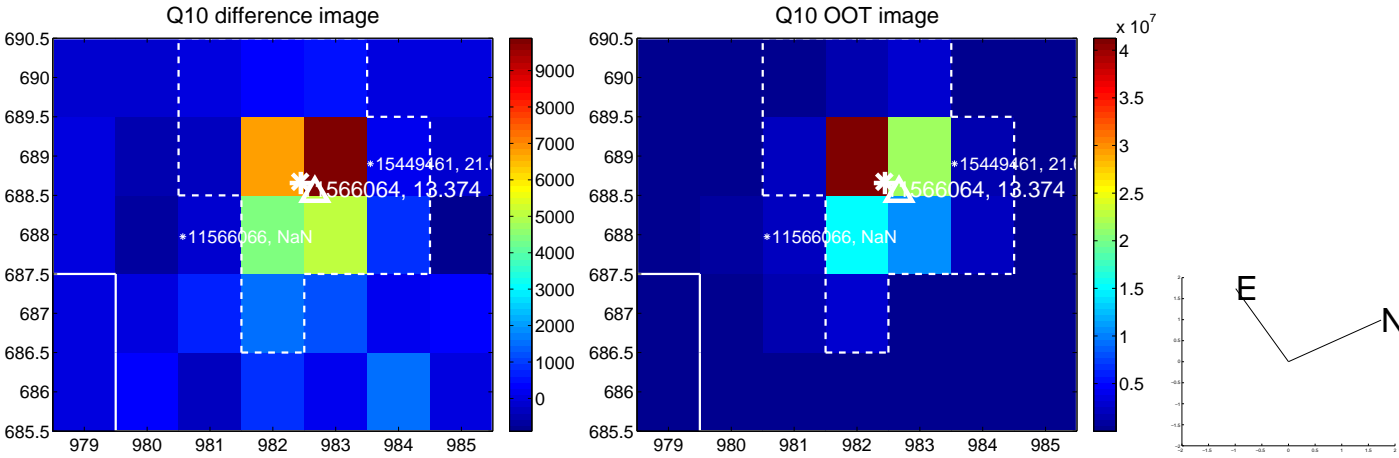
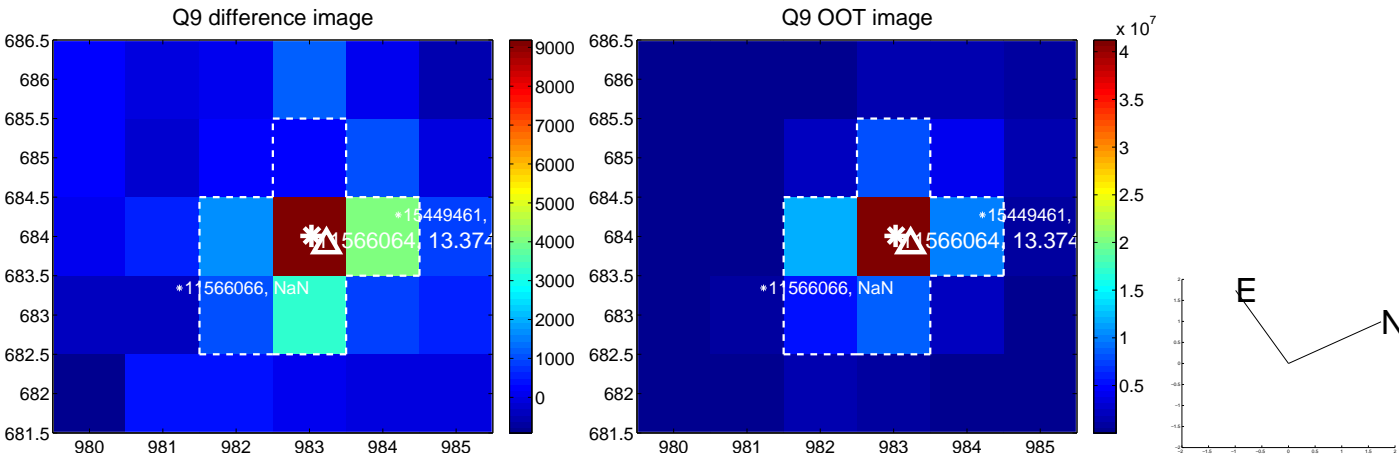
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



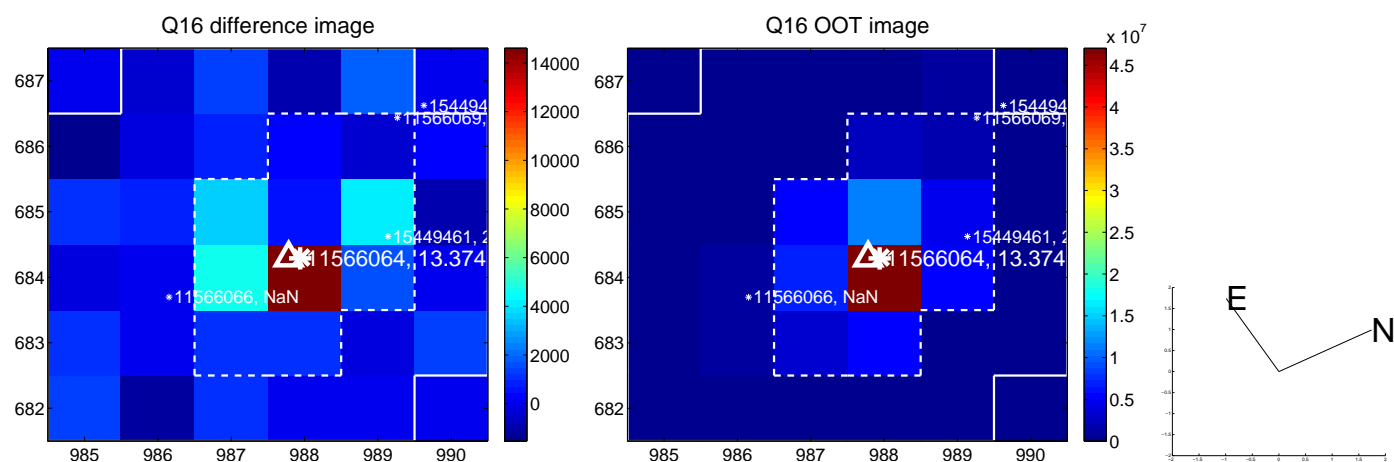
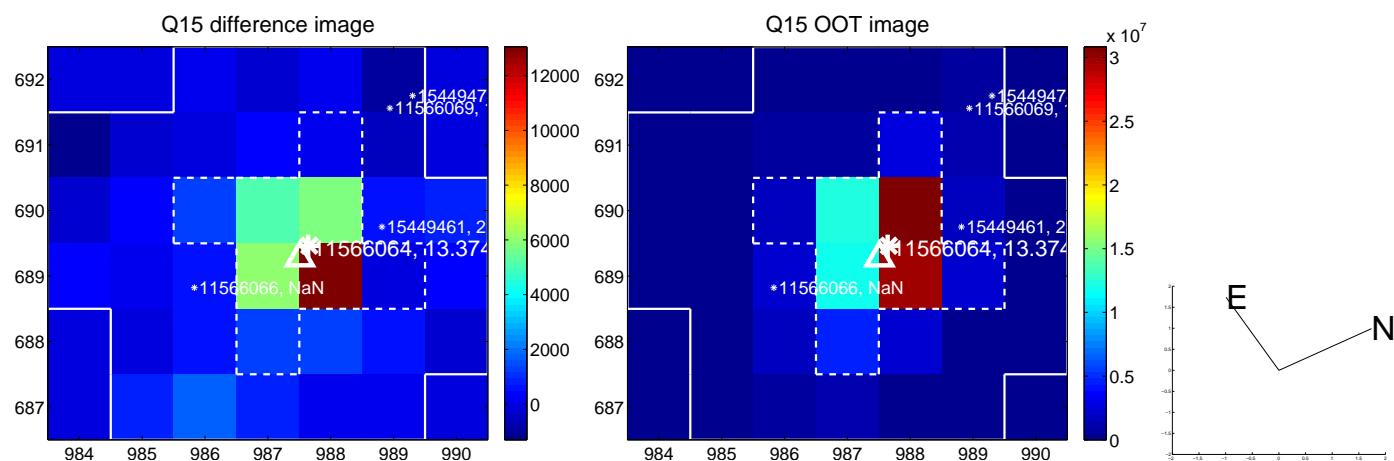
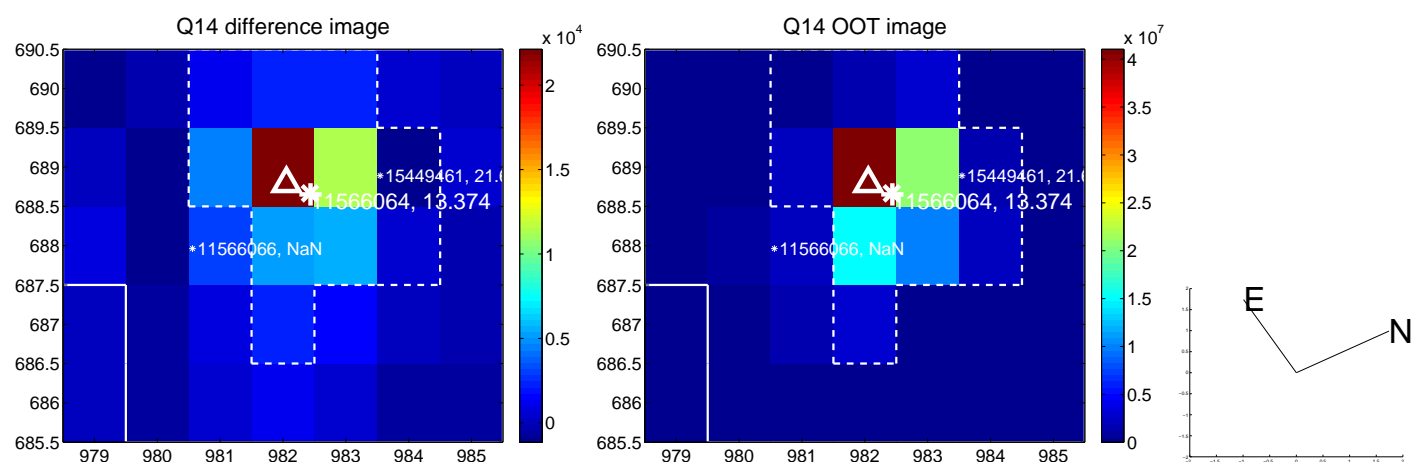
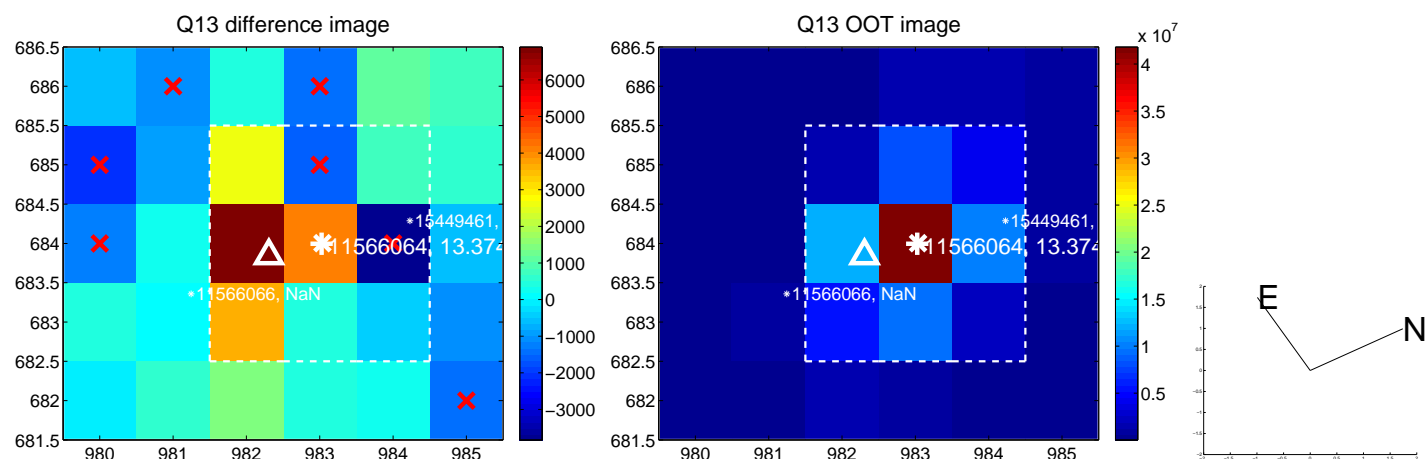
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



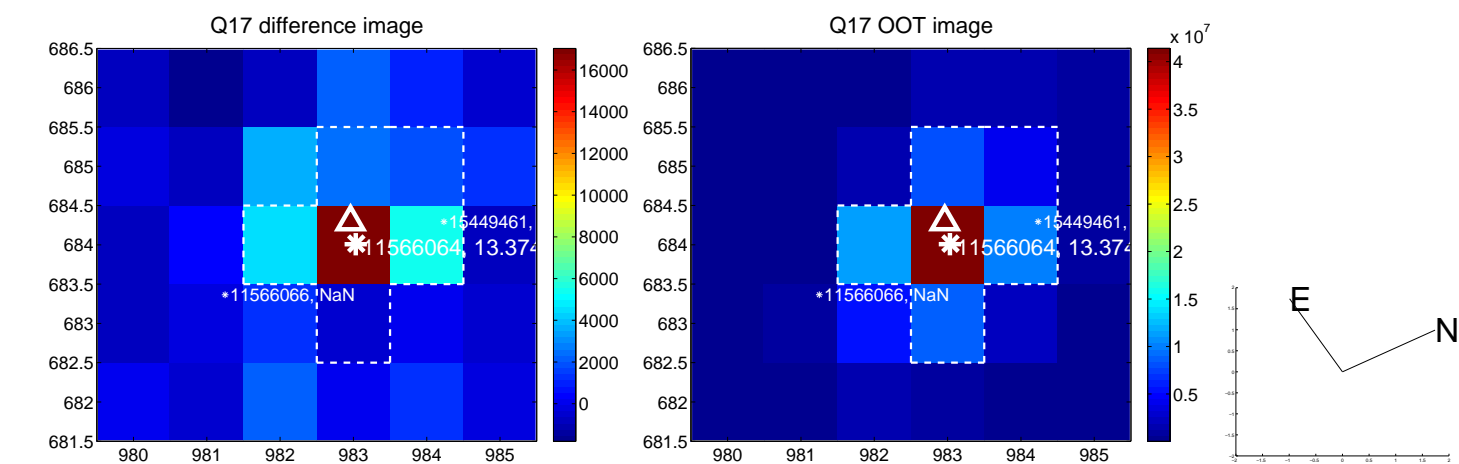
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



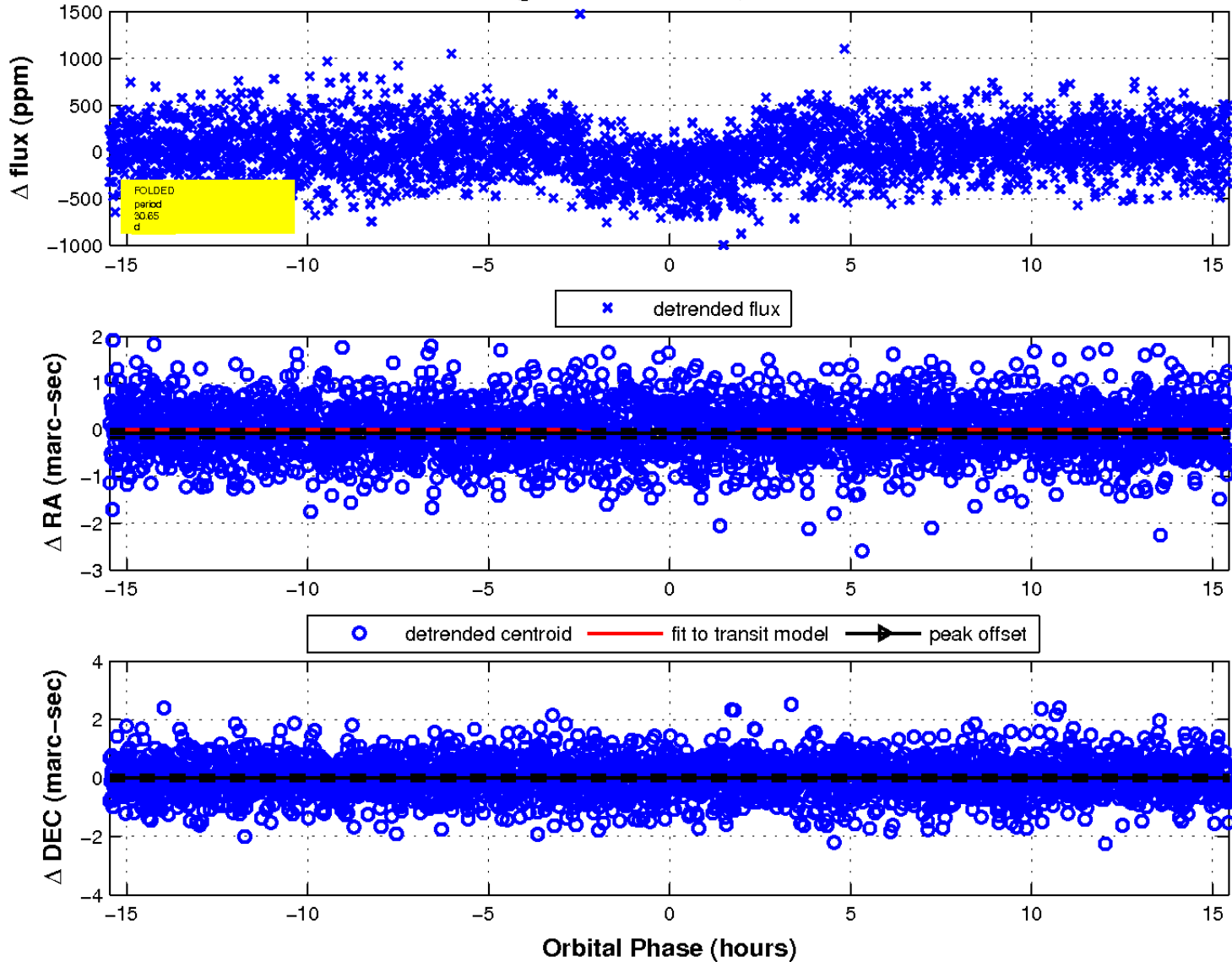
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



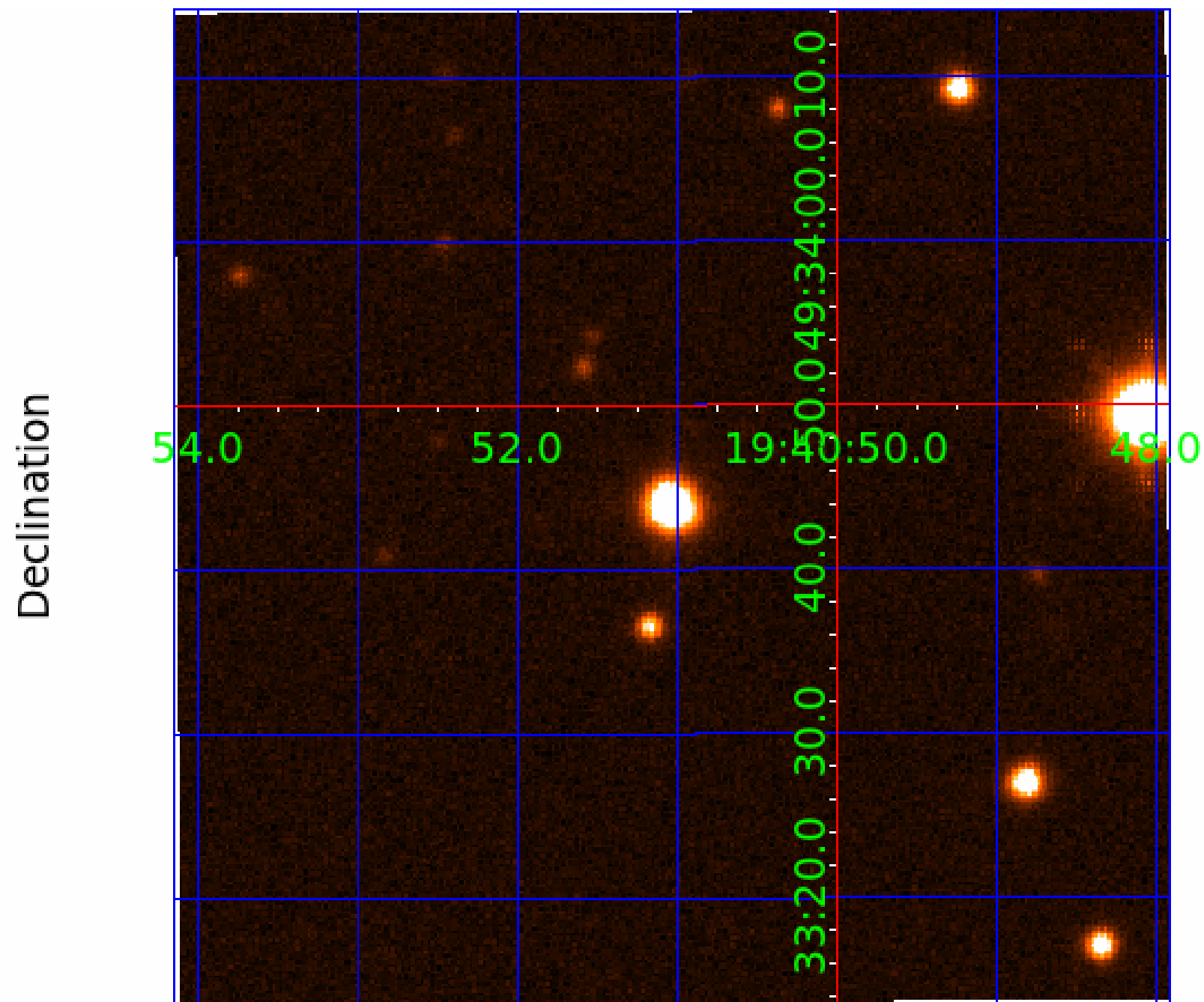
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 2 of 3



UKIRT Image



KIC 011566064

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})
011566064-01	OBS	0353.01	152.106106	176.527808	3734.0	7.512	82.5	83.7	1.64	6200	11.67	10.38
011566064-02	OBS	0353.02	30.652820	135.043568	322.1	5.156	17.3	18.5	1.64	6200	3.23	87.85
011566064-03	OBS	0353.03	11.161808	133.559631	91.6	4.951	8.0	8.7	1.64	6200	1.78	337.84

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011566064-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
011566064-02	OBS	PC	0.99	0	0	0	0	NO_COMMENT
011566064-03	OBS	PC	0.97	0	0	0	0	NO_COMMENT

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

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

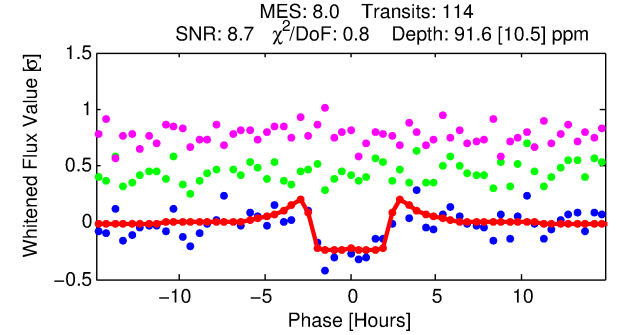
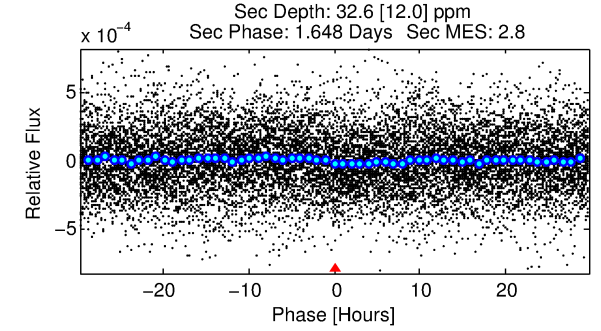
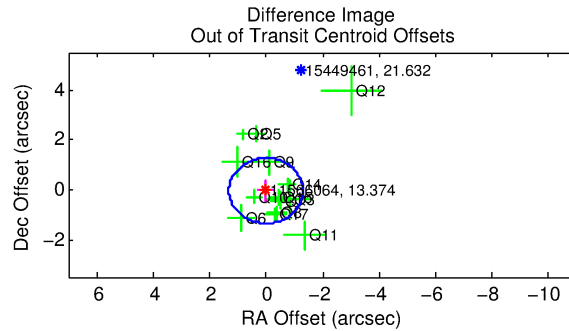
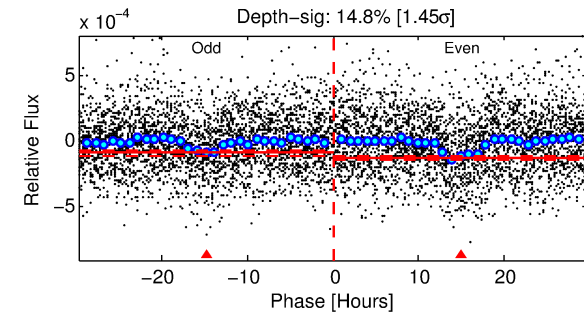
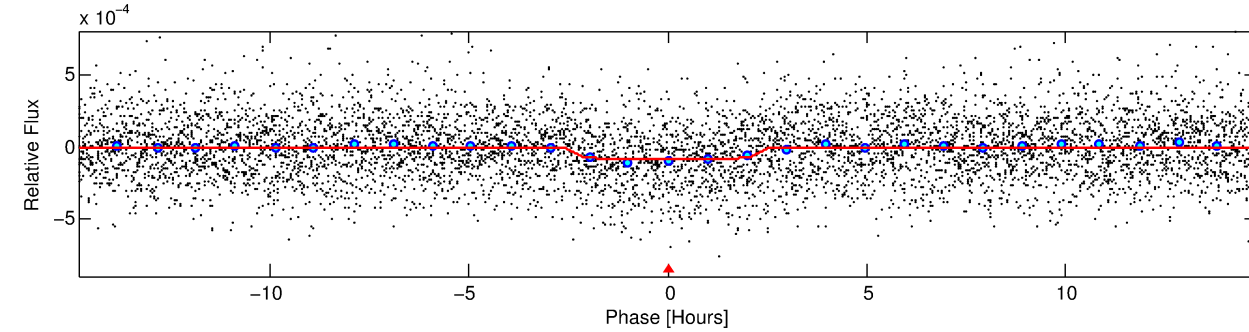
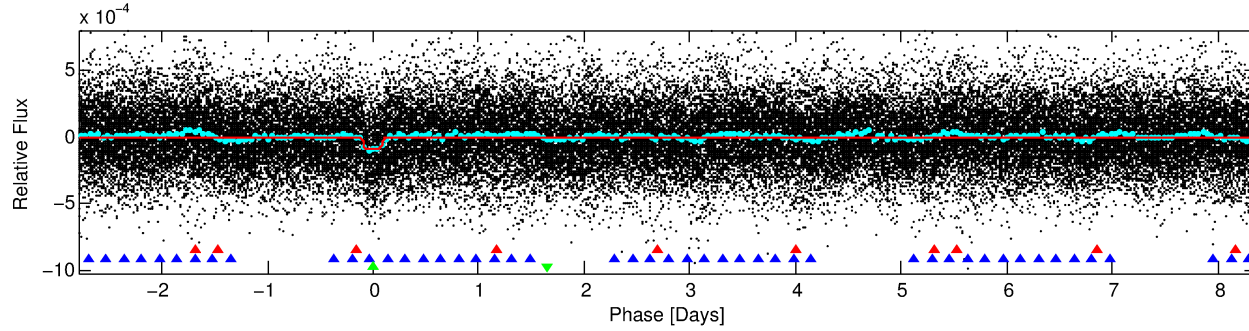
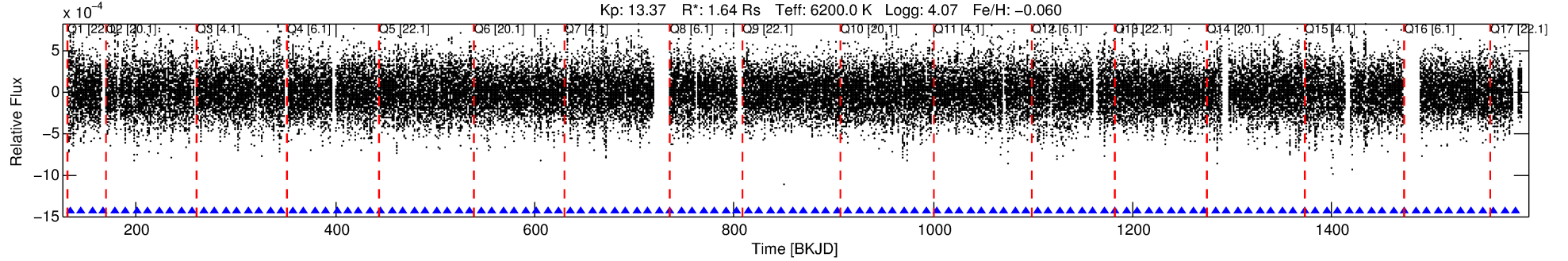
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011566064-03

No Significant Match Found

DV One-Page Summary

KIC: 11566064 Candidate: 3 of 3 Period: 11.162 d
KOI: K00353.03 Corr: 0.911



DV Fit Results:

Period = 11.16181 [0.00008] d
Epoch = 133.5596 [0.0055] BKJD
Rp/R* = 0.0100 [0.0031]
a/R* = 9.40 [14.70]
b = 0.85 [0.52]
Seff = 337.84 [111.60]
Teff = 1093 [90] K
Rp = 1.78 [0.67] Re
a = 0.1027 [0.0206] AU
Ag = 59.49 [46.88] [1.25 σ]
Teffp = 4694 [850] K [4.21 σ]

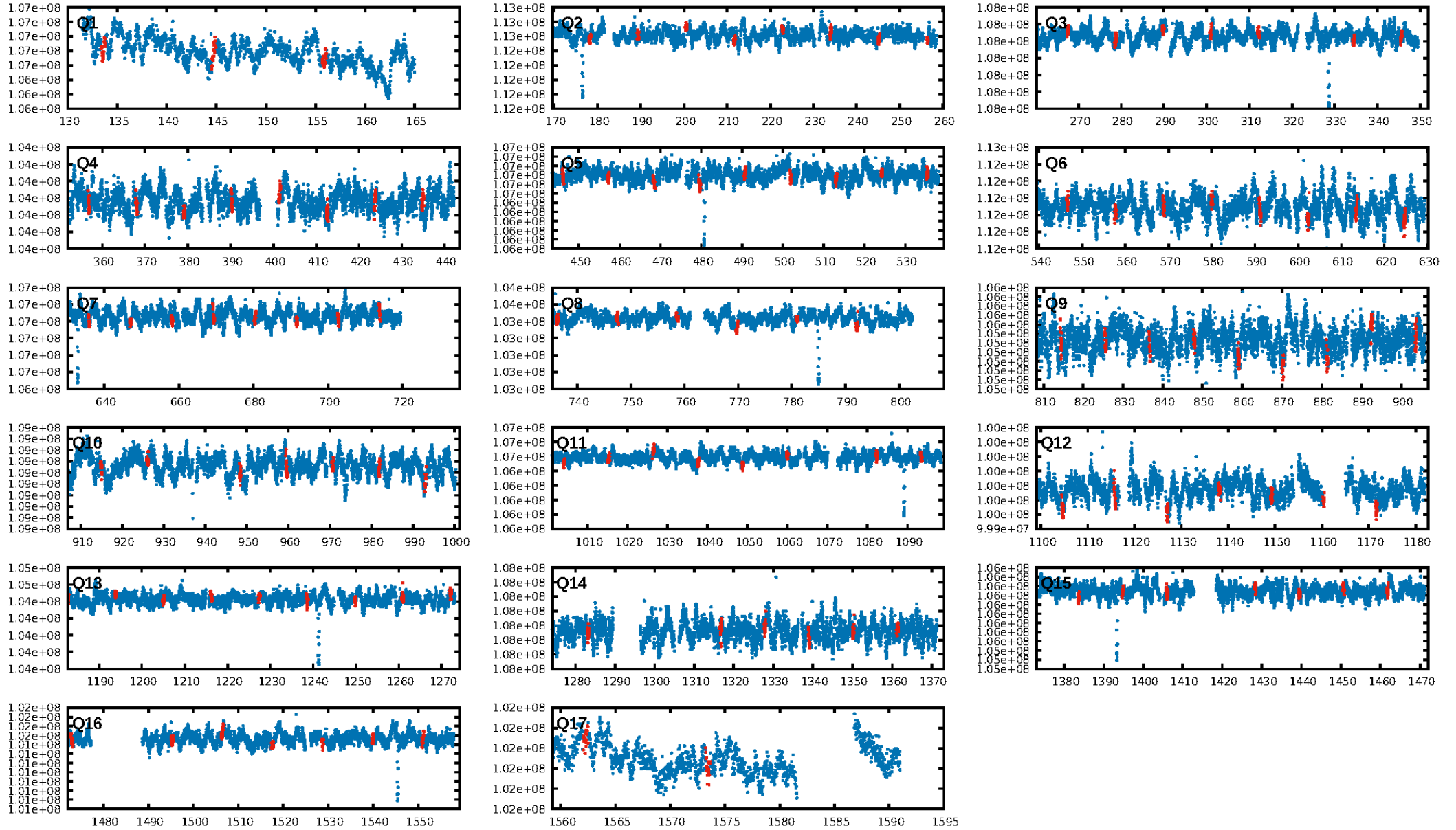
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [65.44 σ]
ModelChiSquare2-sig: 99.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 4.47e-15
RollingBand-fgt: 1.00 [109/109]
GhostDiagnostic-chr: 0.5451
Centroid-sig: 57.2%
Centroid-so: 0.562 arcsec [0.93 σ]
OotOffset-rm: 0.045 arcsec [0.10 σ]
KicOffset-rm: 0.099 arcsec [0.26 σ]
OotOffset-st: 4/4/3/3 [14]
KicOffset-st: 4/4/3/3 [14]
DiffImageQuality-fgm: 0.93 [13/14]
DiffImageOverlap-fno: 1.00 [17/17]

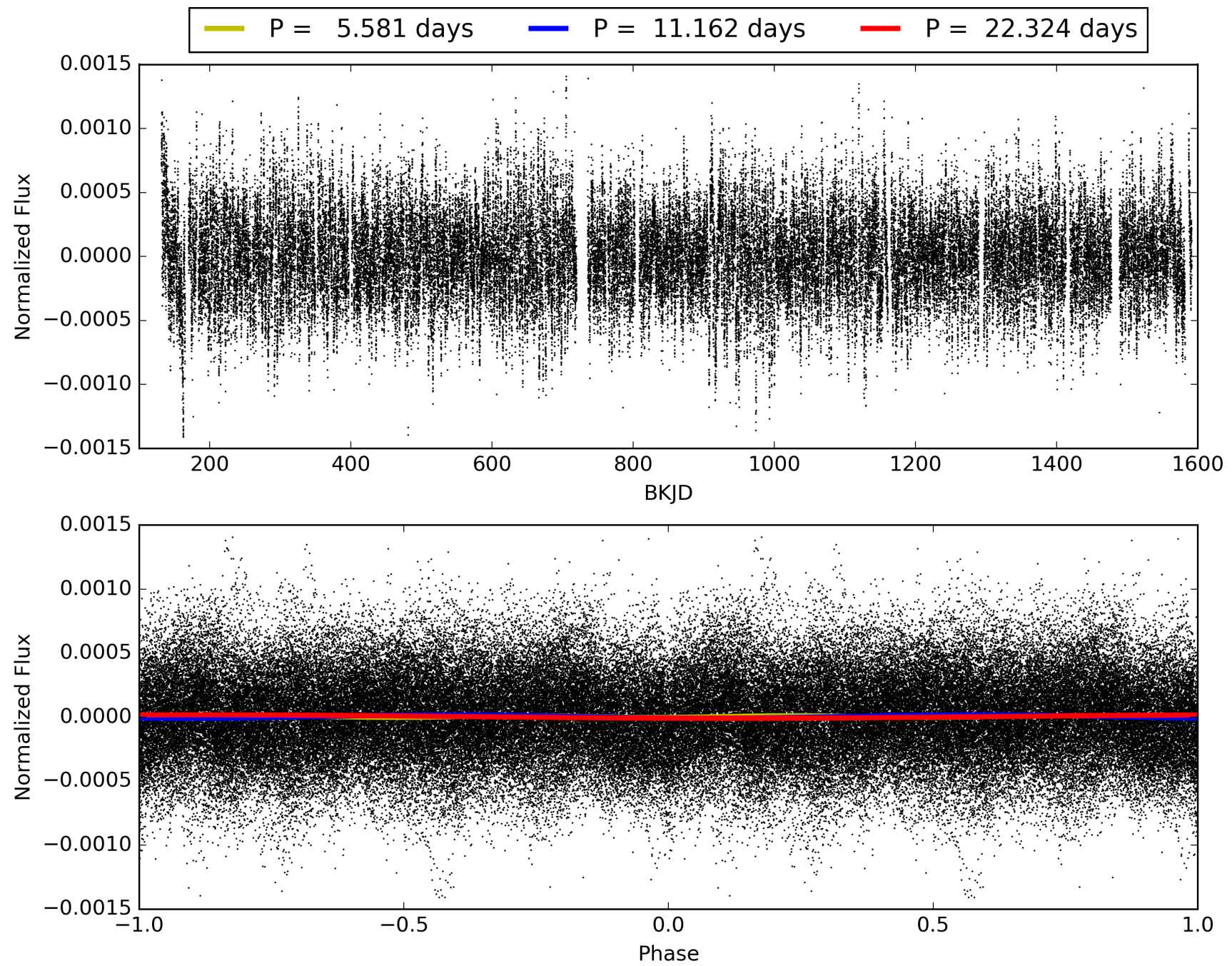
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 05:05:28 Z

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

TCE 011566064-03, PDC Light Curves

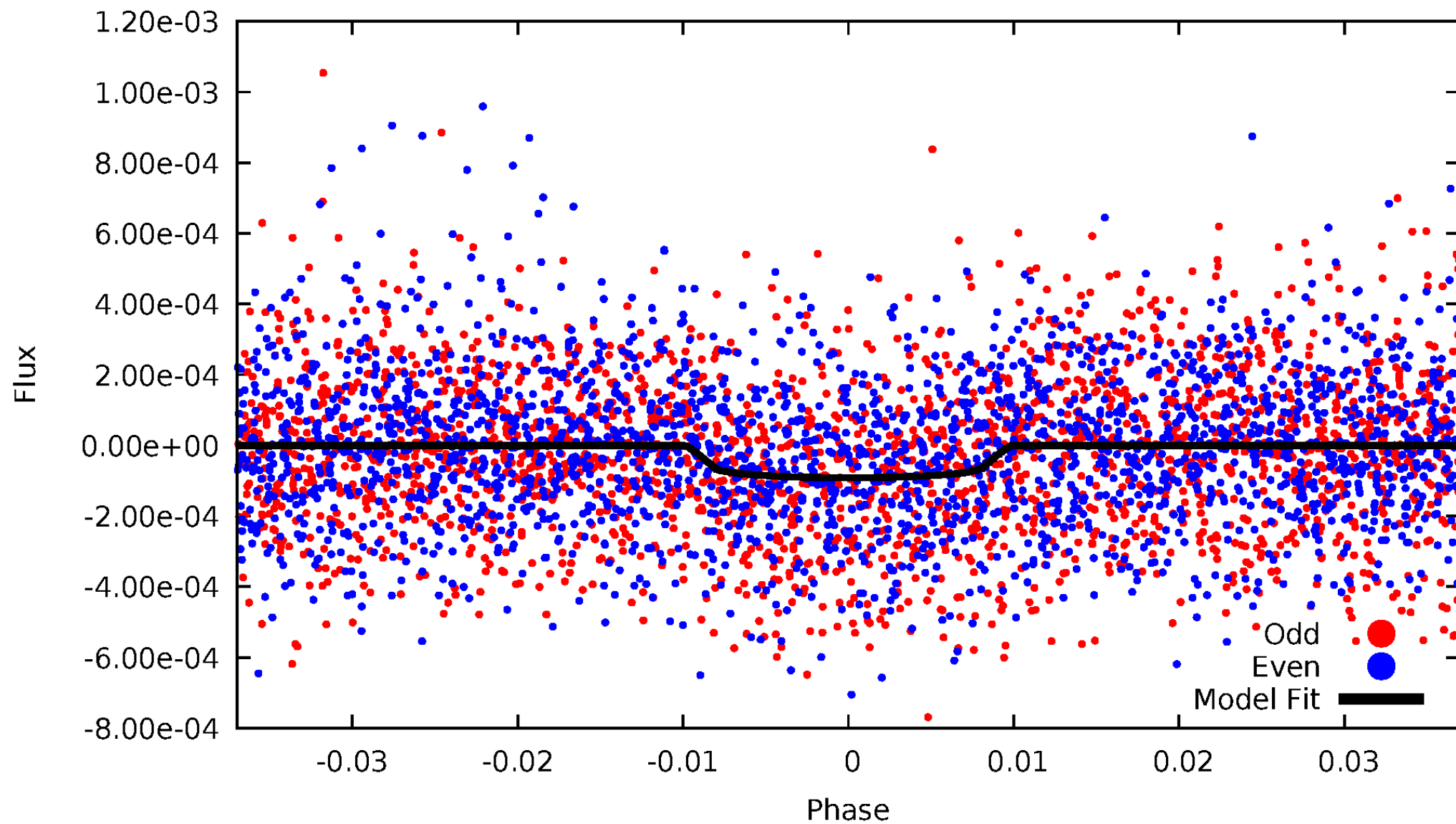


TCE 011566064-03



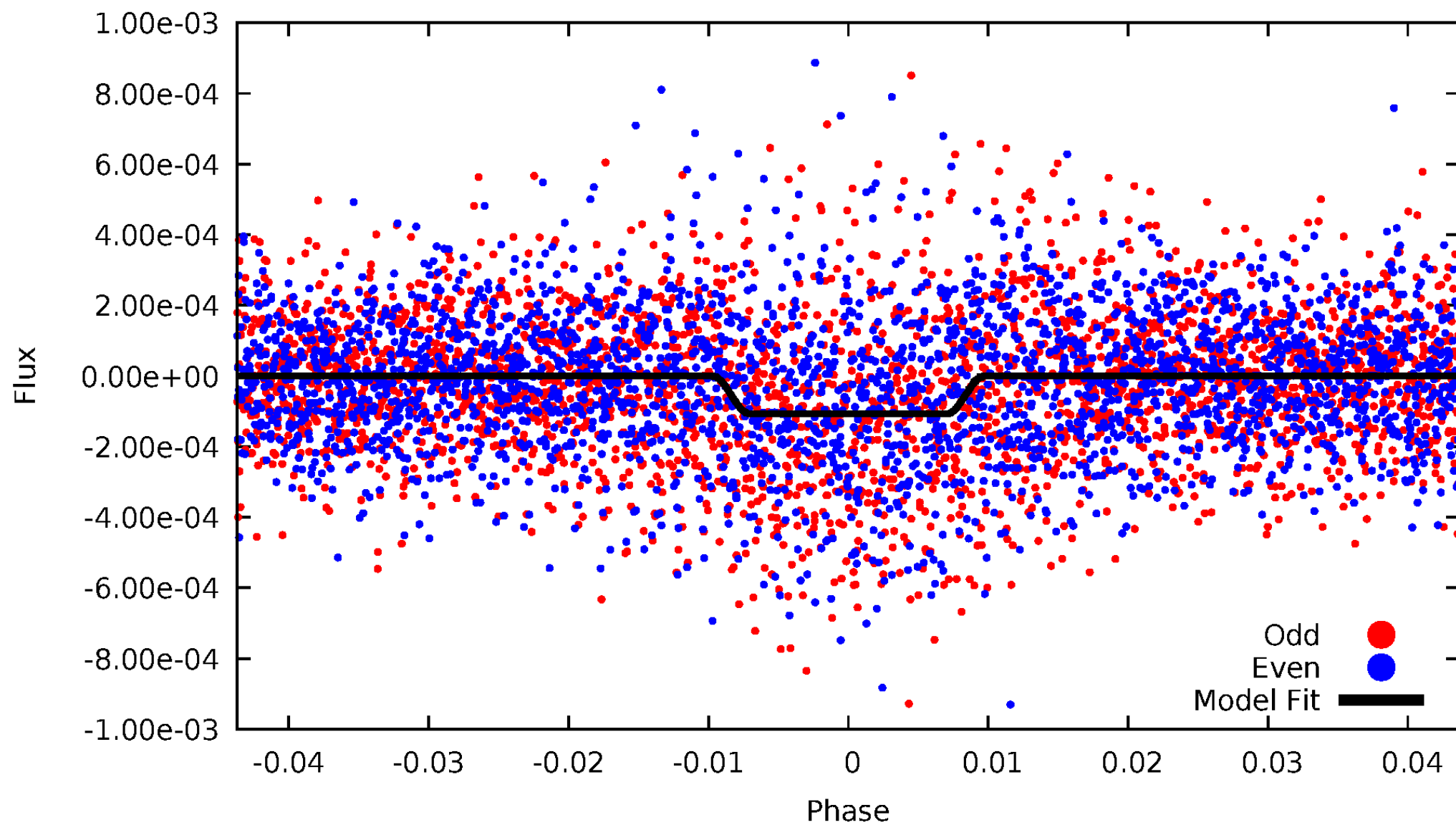
DV Odd/Even

TCE 011566064-03

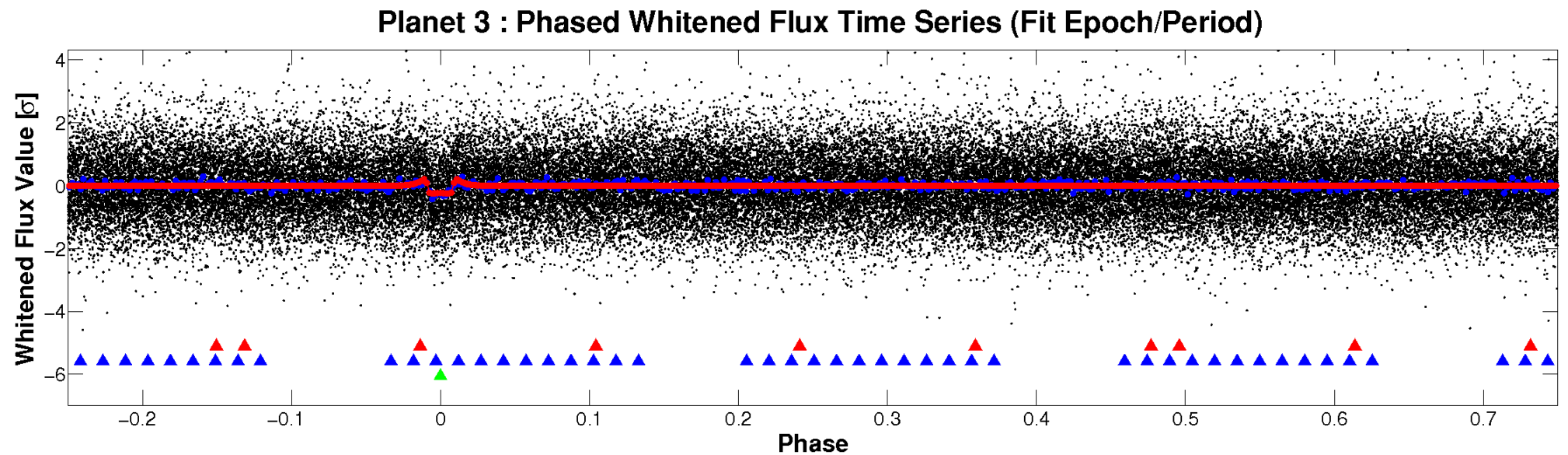
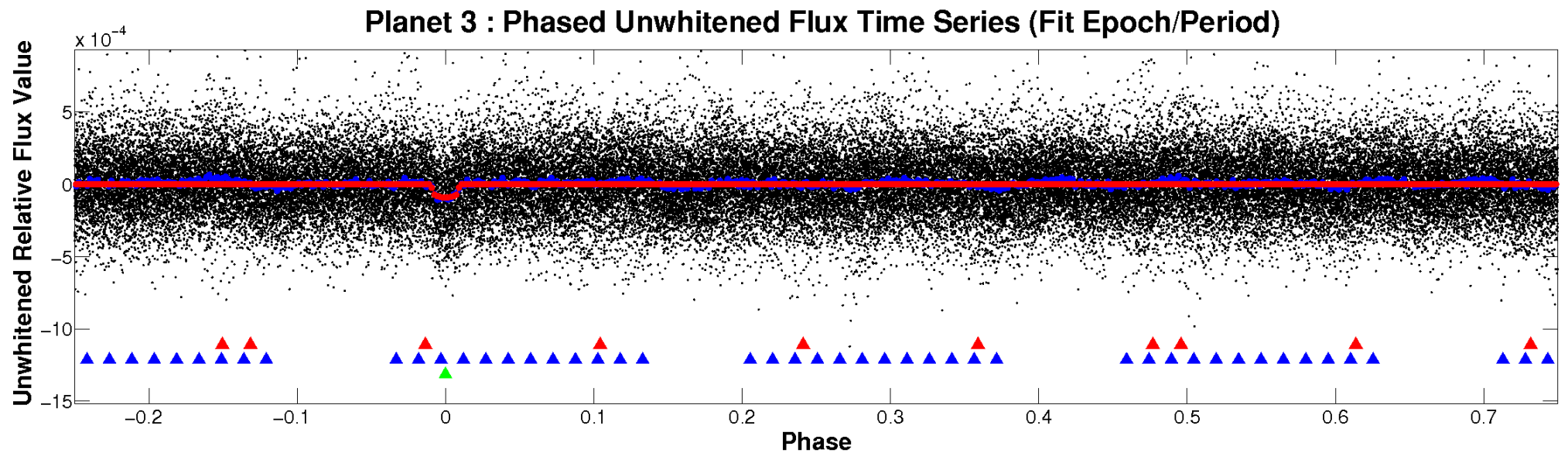


ALT Odd/Even

TCE 011566064-03

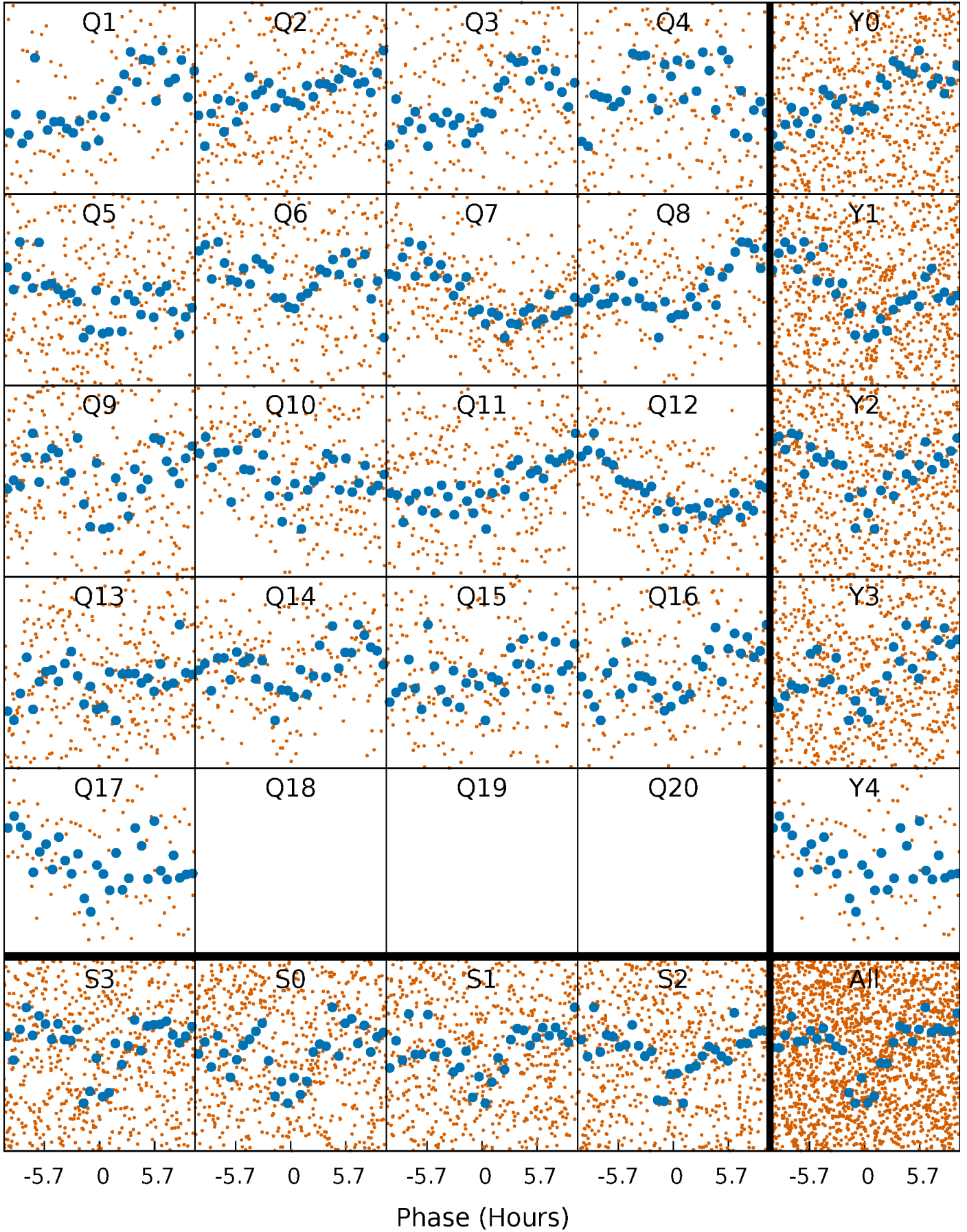


Non-Whitened Vs. Whitened Light Curve



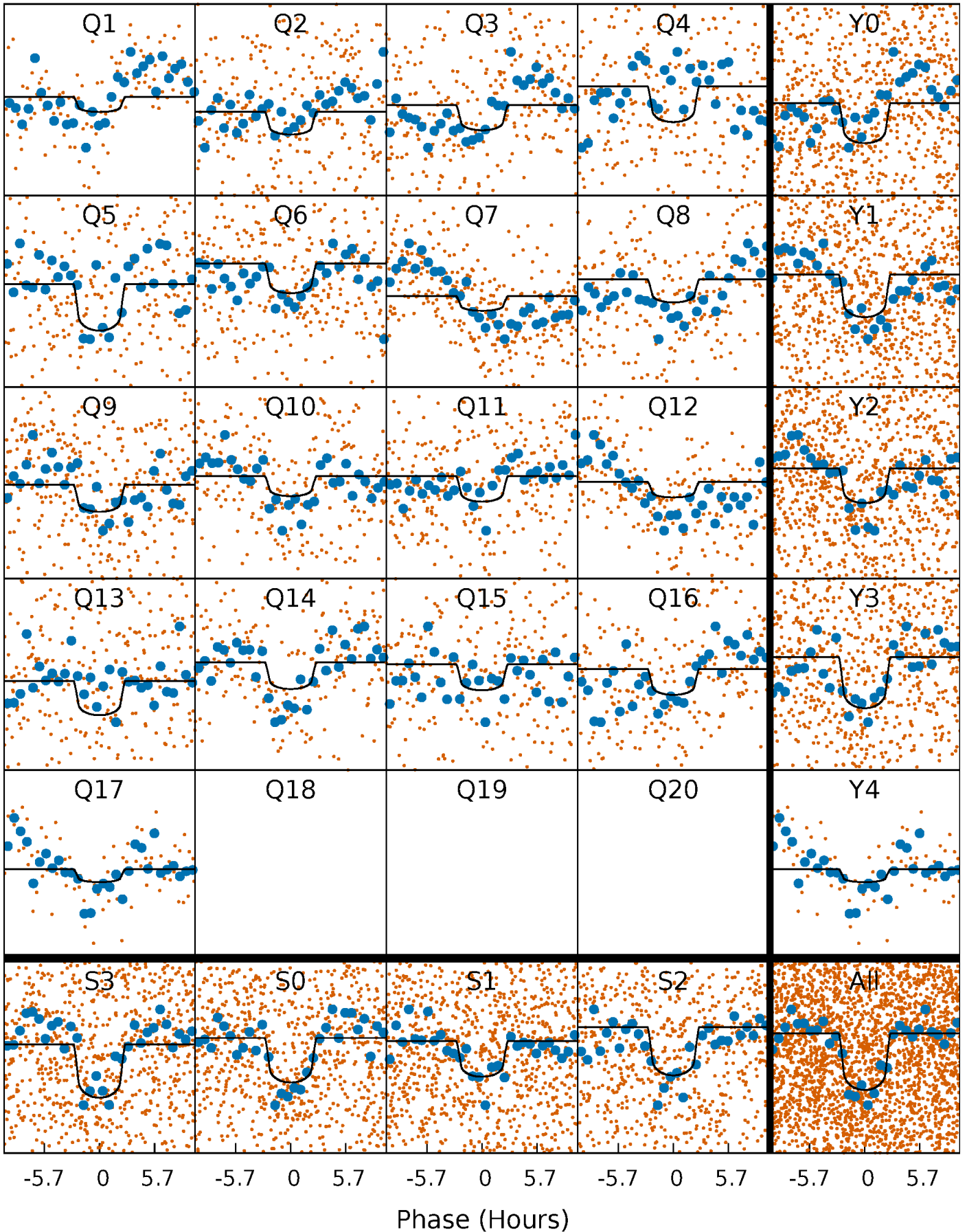
PDC Quarter-Phased Transit Curves

TCE 011566064-03 P= 11.161808 Days $T_0=133.559631$ (BKJD)



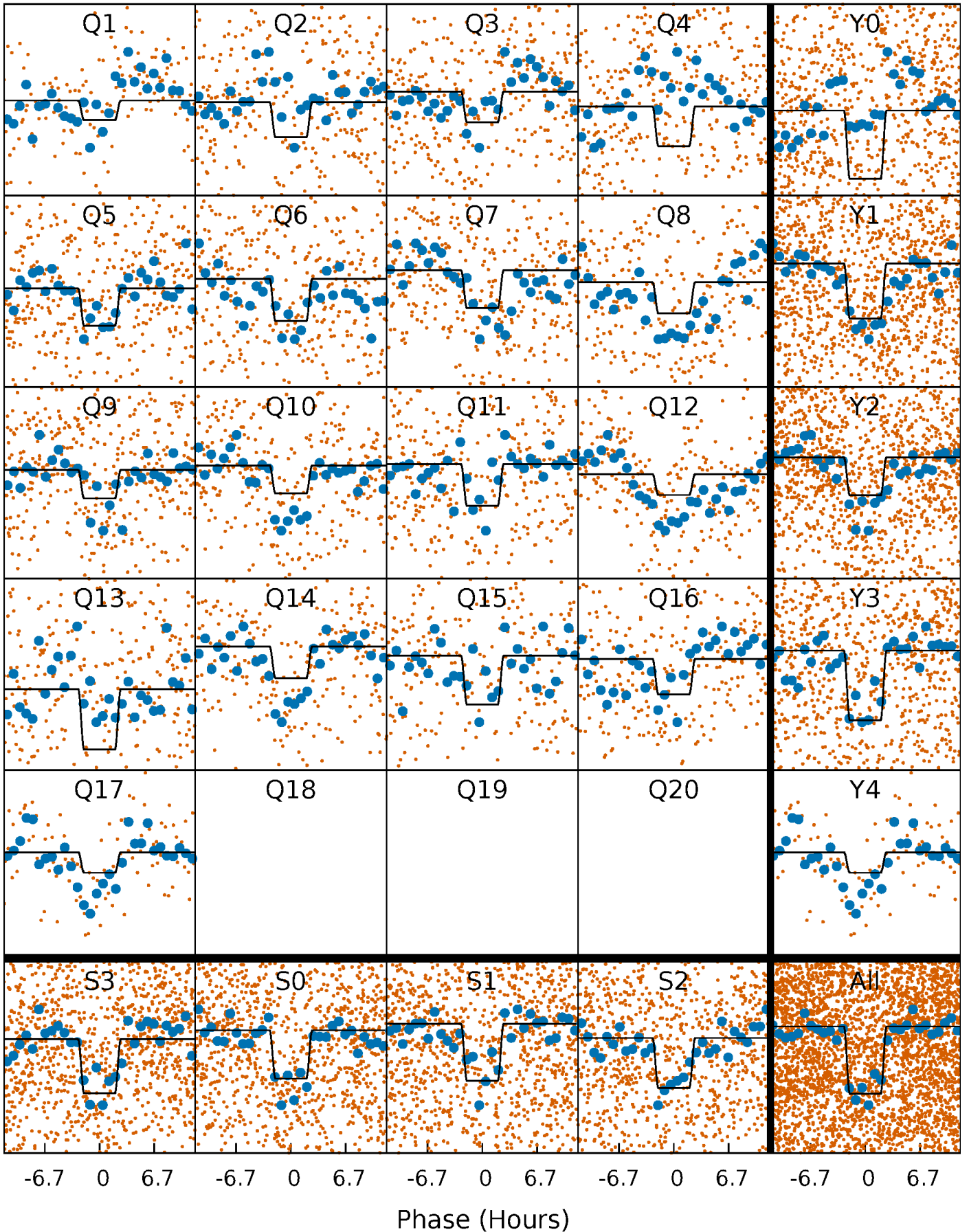
DV Quarter-Phased Transit Curves

TCE 011566064-03 P= 11.161808 Days $T_0=133.559631$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

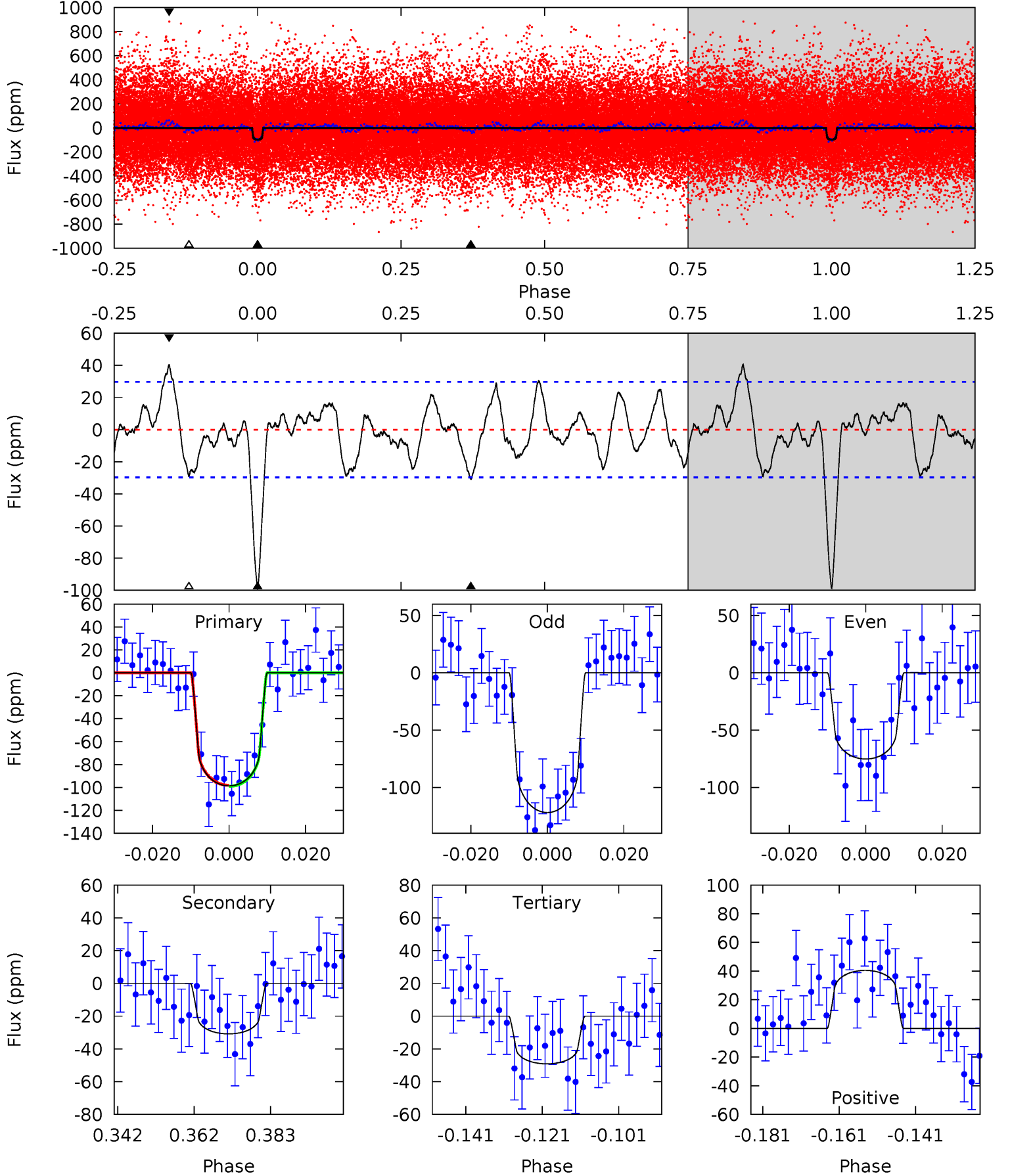
TCE 011566064-03 P= 11.161946 Days $T_0=133.552374$ (BKJD)



DV Model-Shift Uniqueness Test

011566064-03, P = 11.161808 Days, E = 122.397823 Days

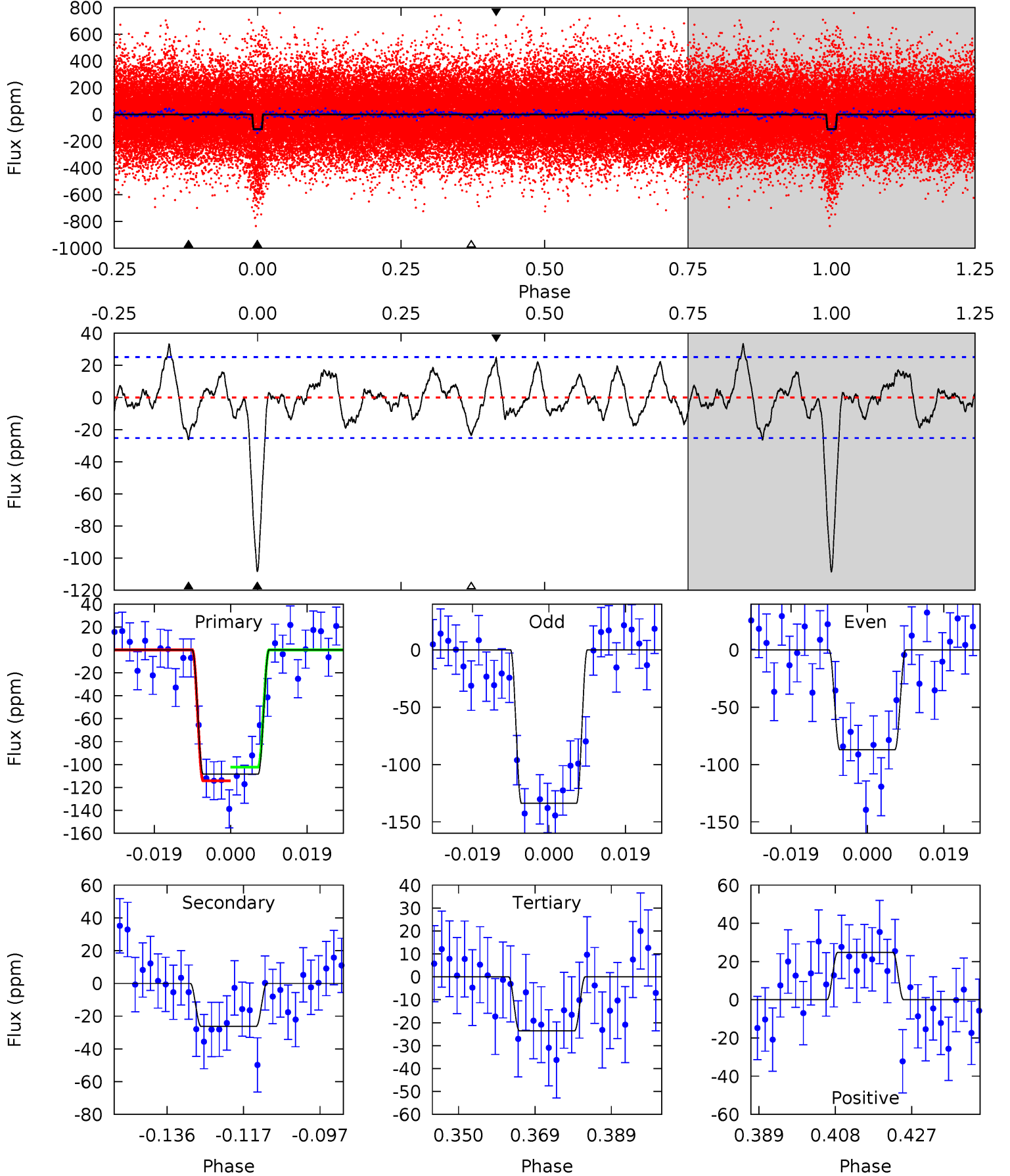
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.2	5.07	4.79	6.66	4.89	2.32	2.18	11.4	9.55	0.28	-1.58	3.85	1.06	0.29	0.07



Alt Model-Shift Uniqueness Test

011566064-03, P = 11.161946 Days, E = 122.390428 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	5.09	4.57	4.83	4.90	2.34	1.94	16.5	16.2	0.52	0.27	4.53	1.09	0.23	1.15



Stellar Parameters For KIC 011566064

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6200^{+124}_{-124}	$4.072^{+0.188}_{-0.101}$	$-0.060^{+0.150}_{-0.150}$	$1.640^{+0.281}_{-0.343}$	$1.158^{+0.140}_{-0.105}$	$0.370^{+0.361}_{-0.128}$
	+2%/-2%	+5%/-2%	+250%/-250%	+17%/-21%	+12%/-9%	+98%/-34%
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 011566064-03 / KOI 0353.03

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-31 ± 6	$1.71^{+0.63}_{-0.51}$	1513^{+69}_{-99}	4756^{+847}_{-533}	60^{+71}_{-29}
Alt.	-26 ± 5	$1.85^{+0.62}_{-0.65}$	1517^{+77}_{-93}	4505^{+915}_{-467}	45^{+62}_{-21}

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 $A_{obs} \gg 1.0$

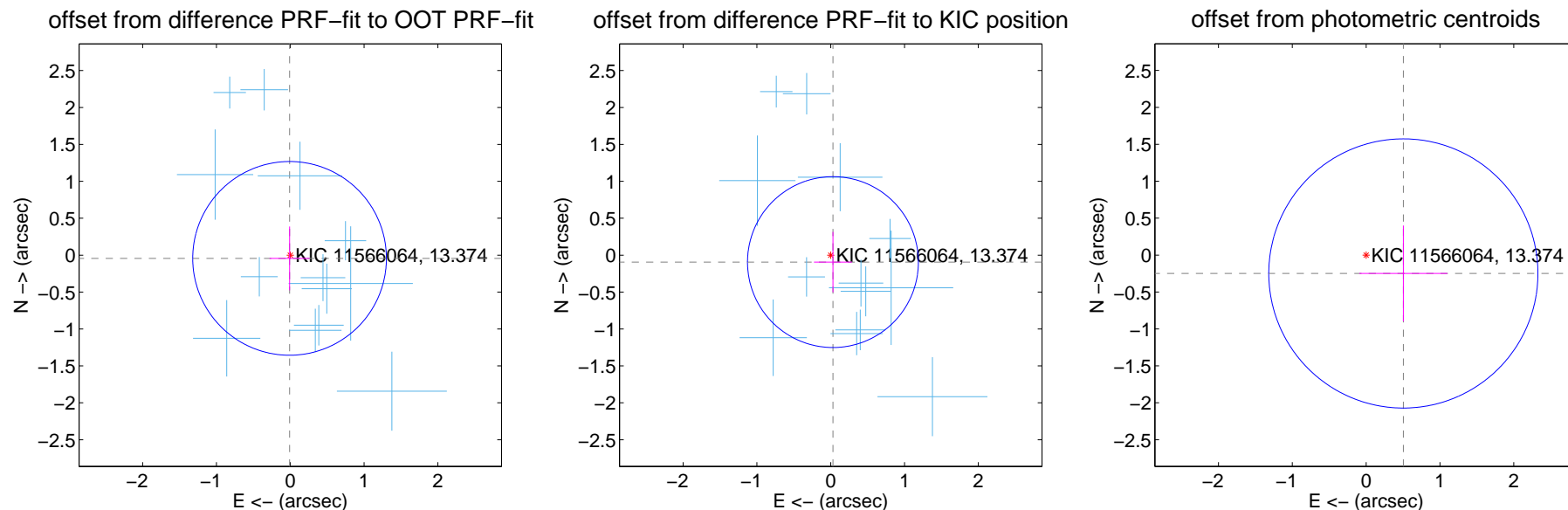
DV Centroid Data

Supplemental centroid analysis for 011566064-03. Kepler magnitude: 13.37. Transit SNR 8.65

There are 13 quarters with good PRF difference image offsets

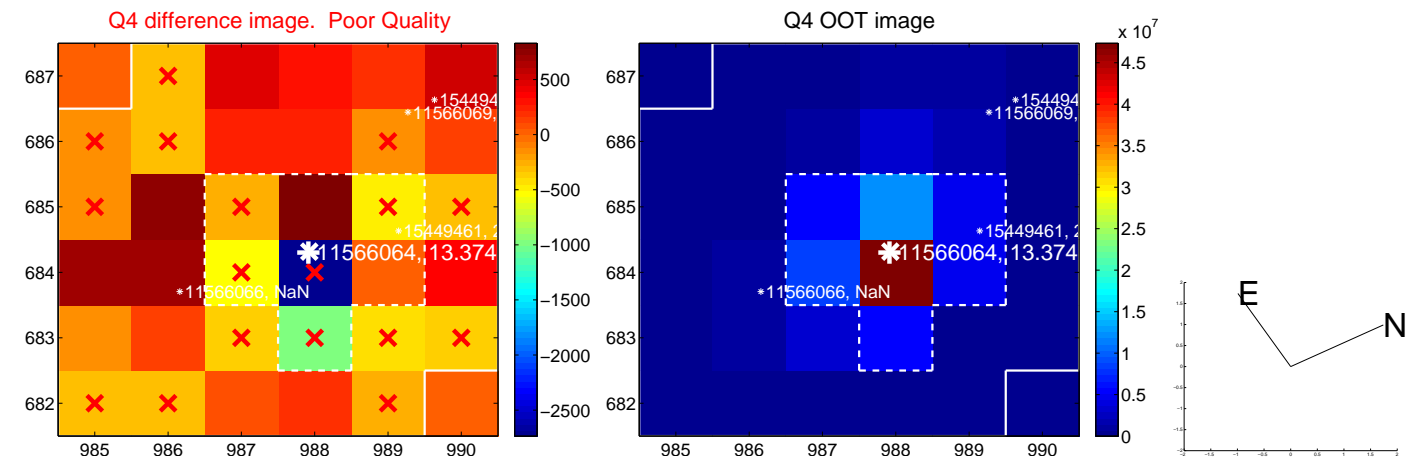
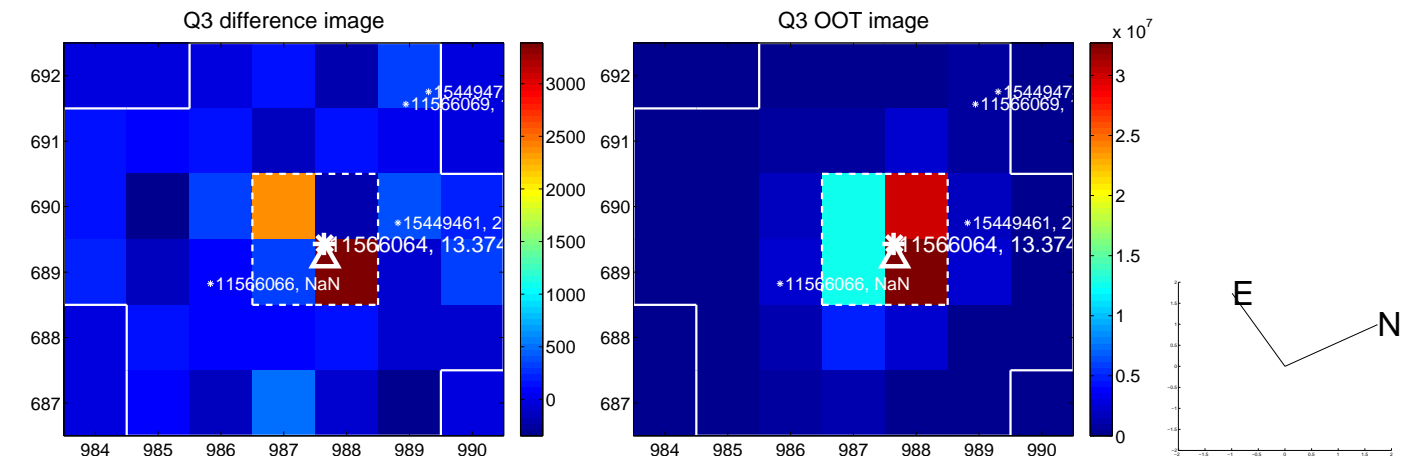
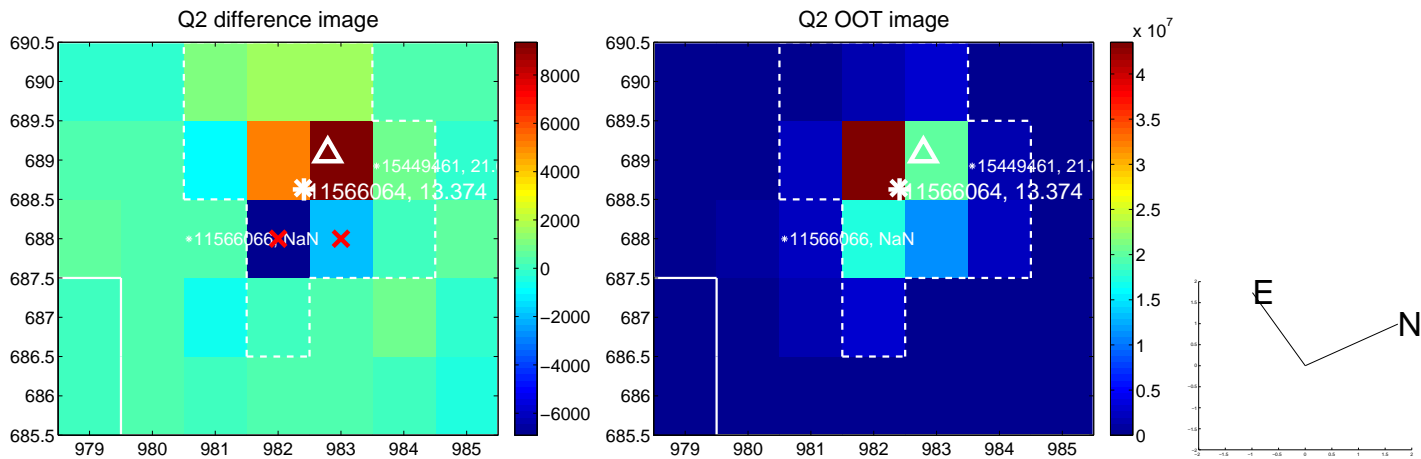
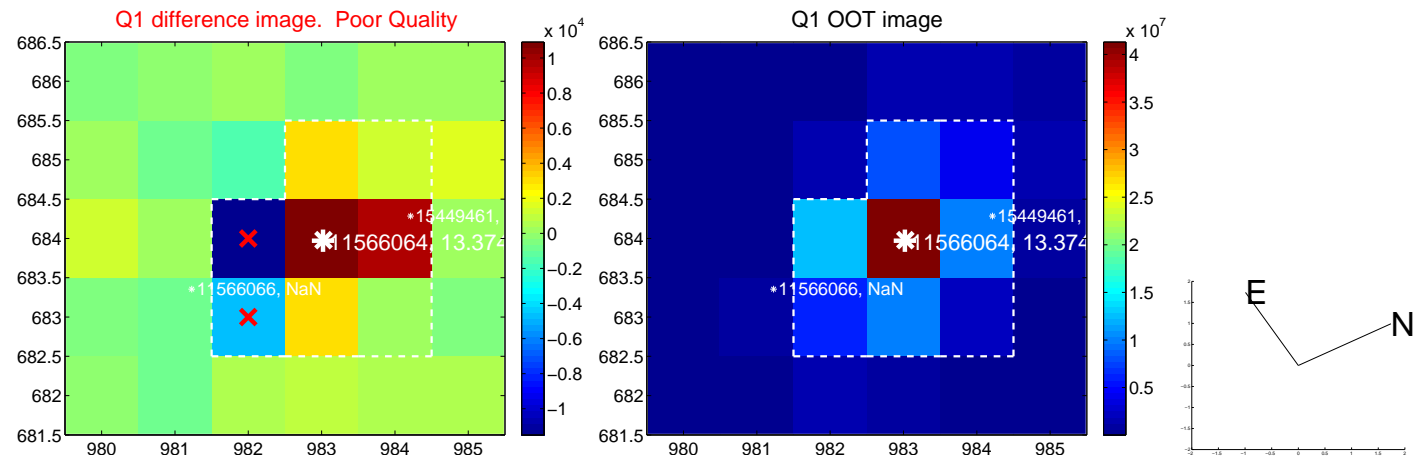
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.045 ± 0.437	0.10	0.009 ± 0.272	-0.044 ± 0.432
PRF-fit source offset from KIC position	0.099 ± 0.386	0.26	-0.030 ± 0.258	-0.094 ± 0.409
photometric centroid source offset	0.56 ± 0.61	0.93	-0.50 ± 0.60	-0.25 ± 0.65

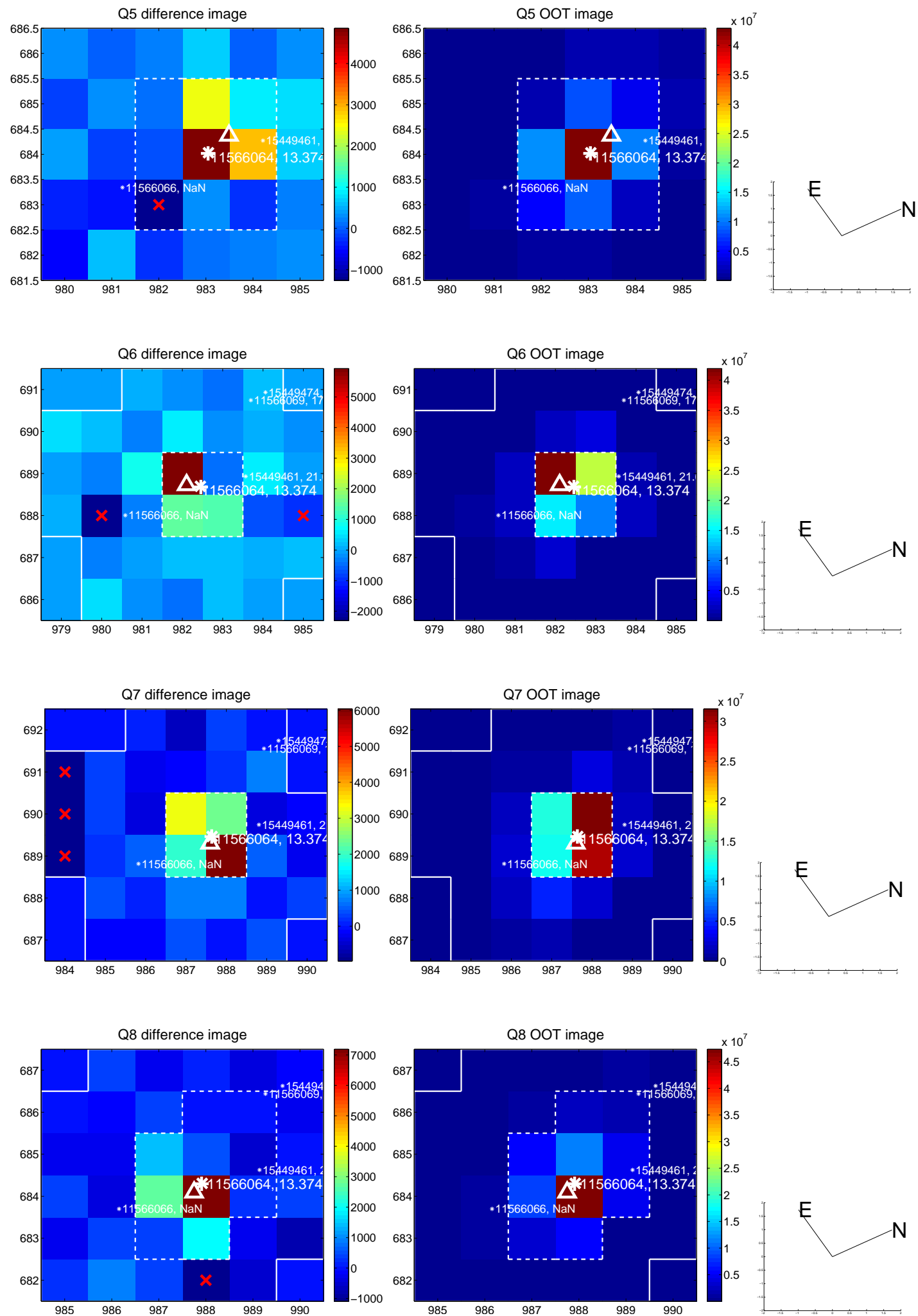


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

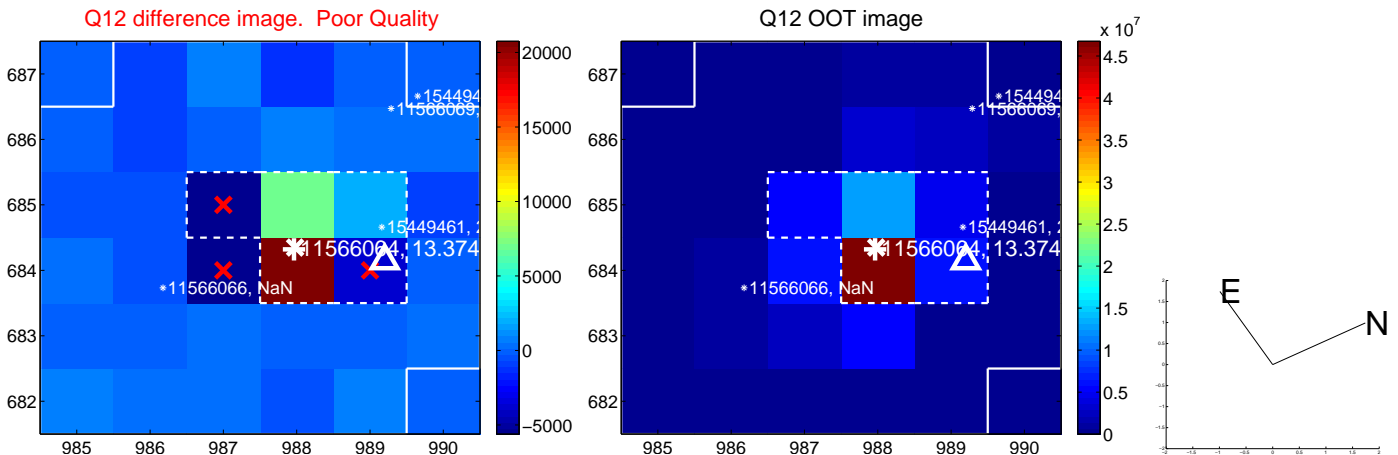
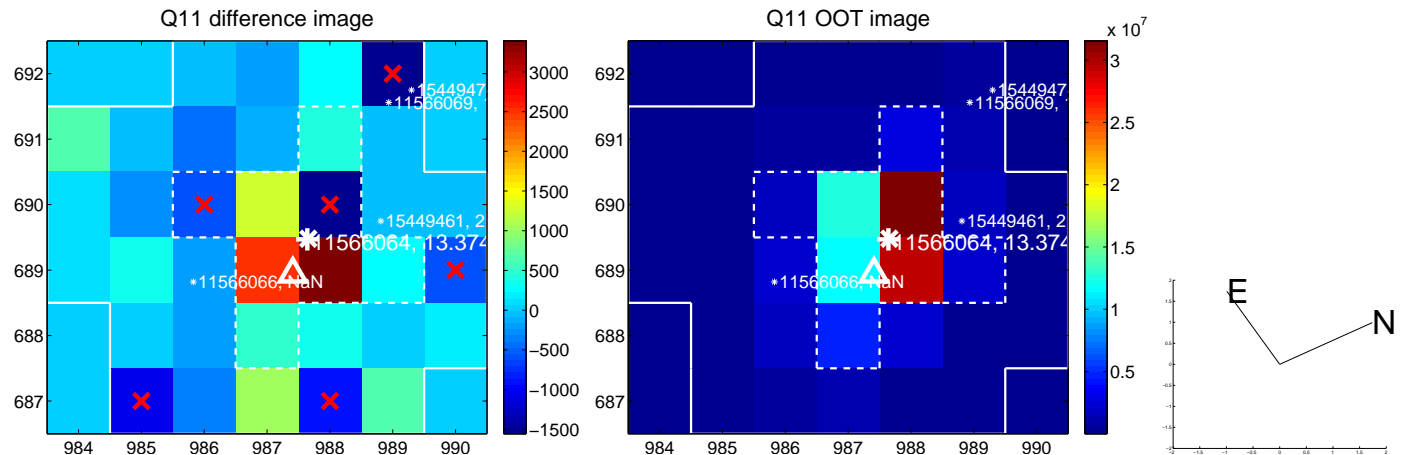
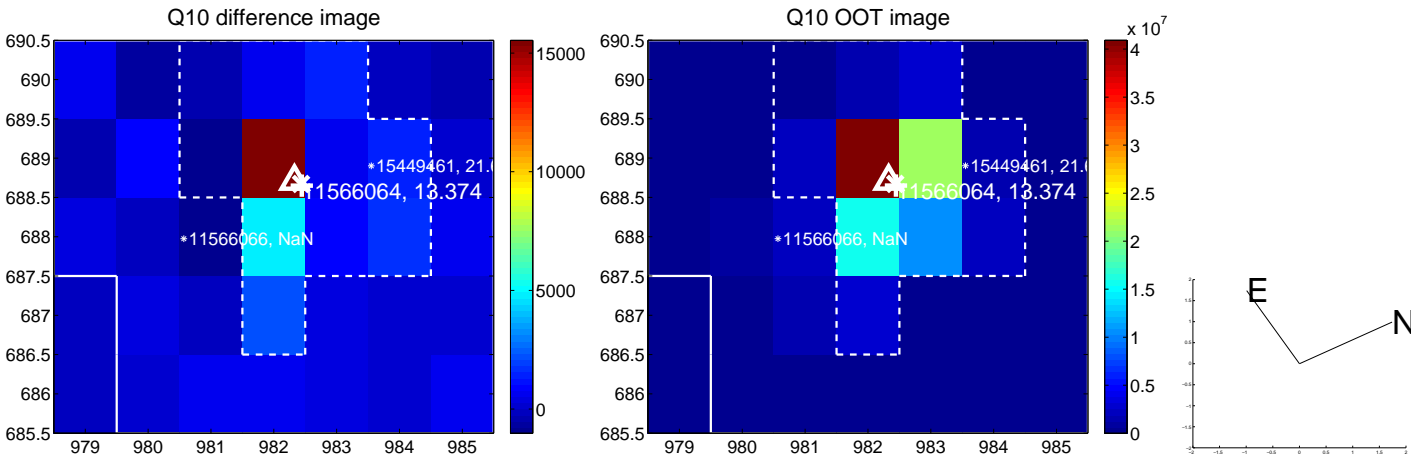
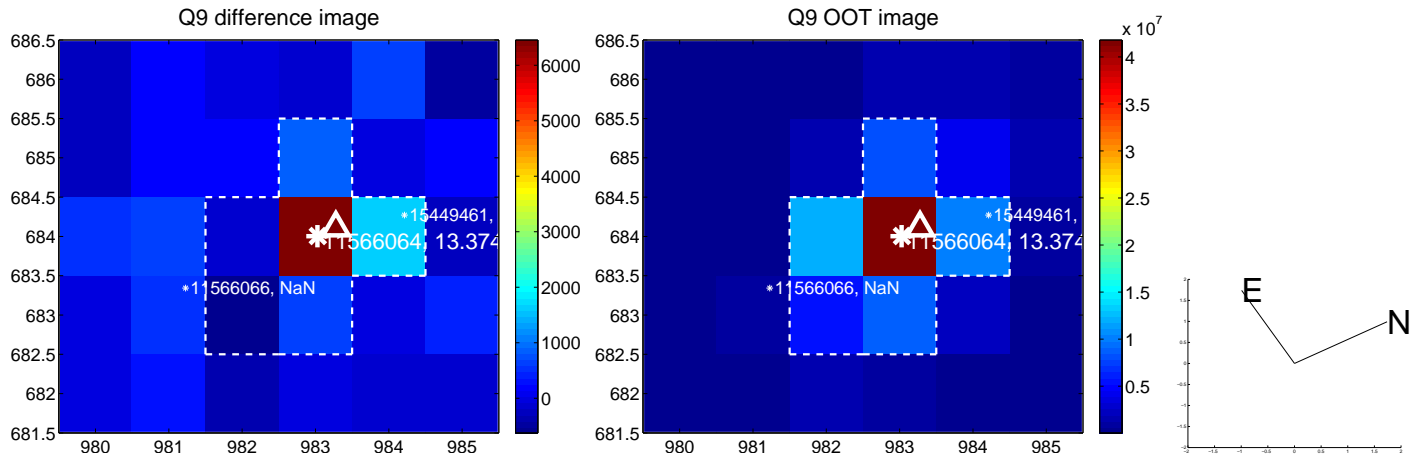
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



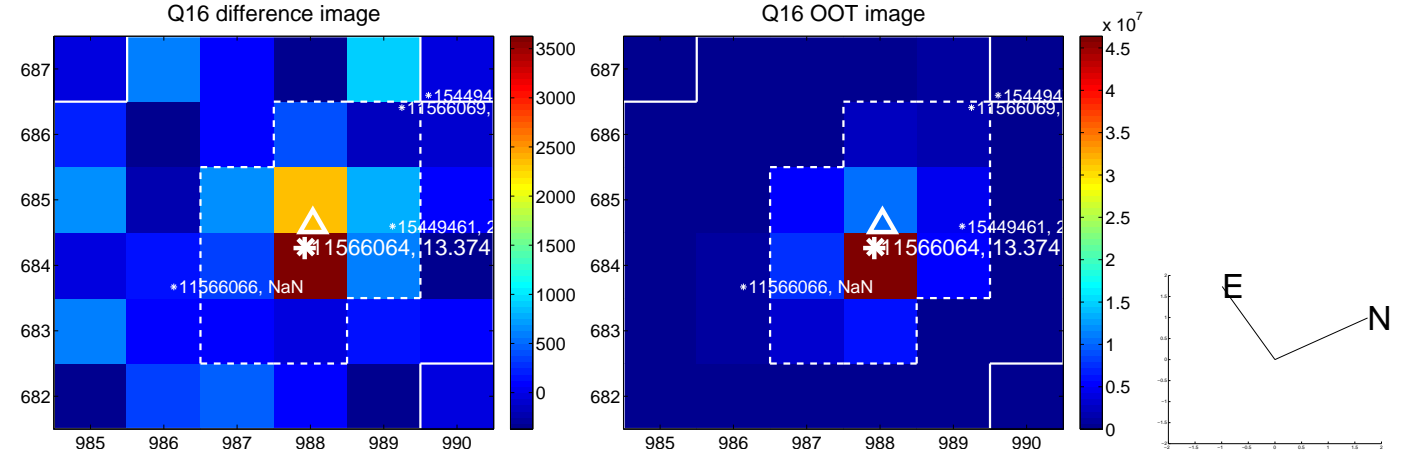
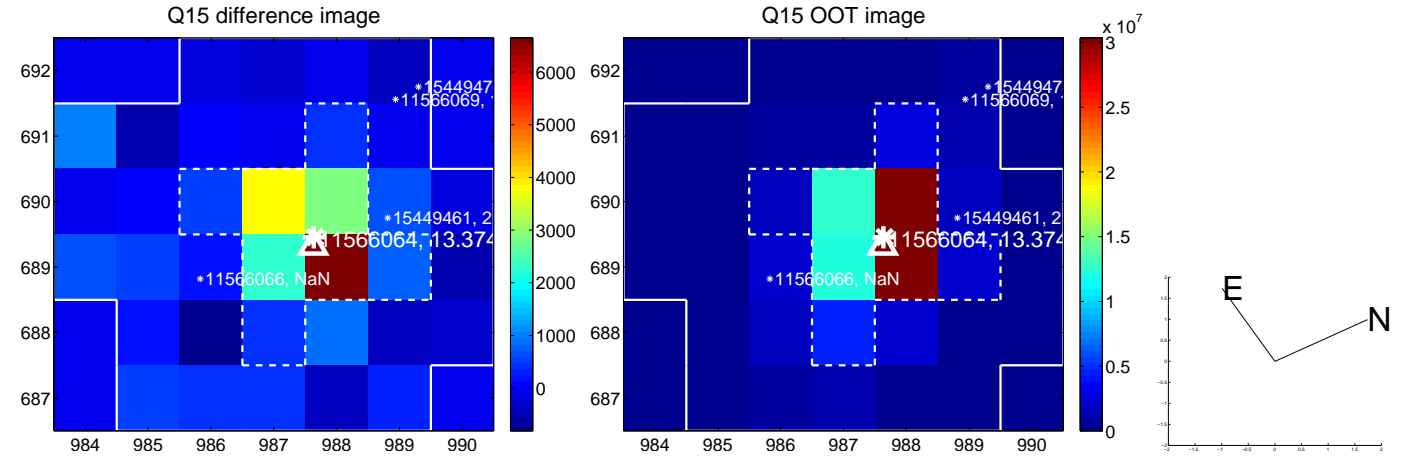
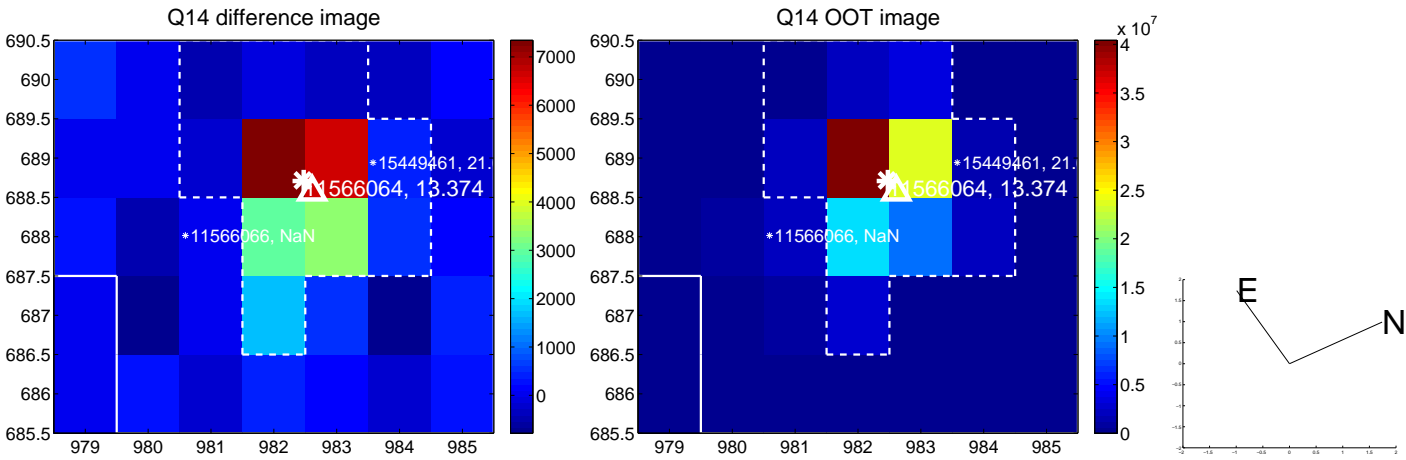
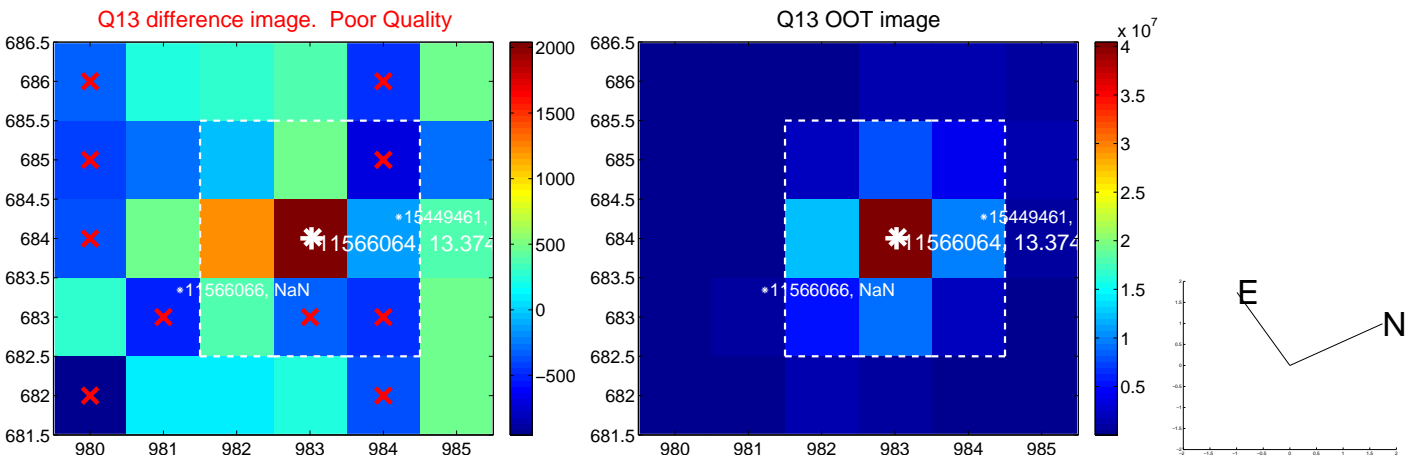
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



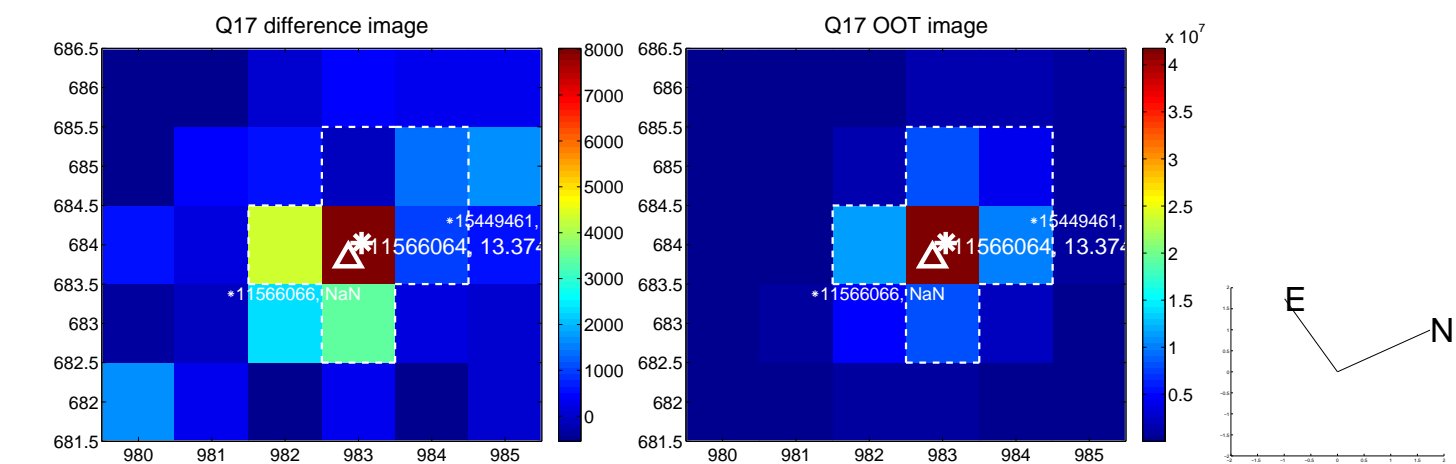
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



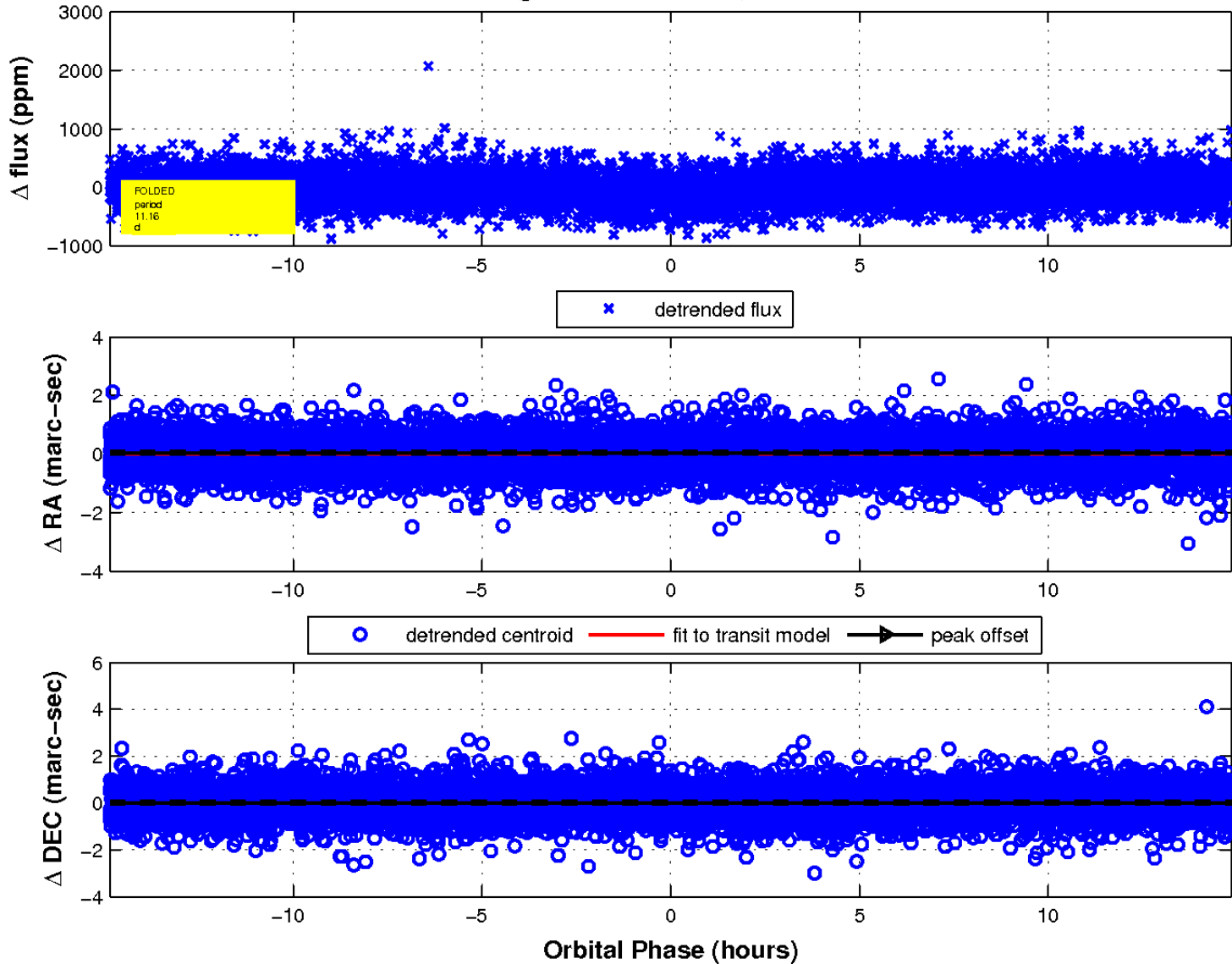
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

