

KIC 007841925

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})
007841925-01	OBS	1499.01	14.164006	140.589213	710.4	4.440	58.5	64.6	0.89	5440	2.62	55.08
007841925-02	OBS	1499.03	6.209184	136.879247	101.1	2.706	11.0	11.4	0.89	5440	1.06	165.40
007841925-03	OBS	1499.02	0.840591	131.740581	44.2	1.264	8.4	9.3	0.89	5440	0.58	2379.43

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007841925-01	OBS	PC	1.00	0	0	0	0	CENT_KIC_POS
007841925-02	OBS	PC	0.46	0	0	0	0	CENT_KIC_POS
007841925-03	OBS	PC	0.94	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.

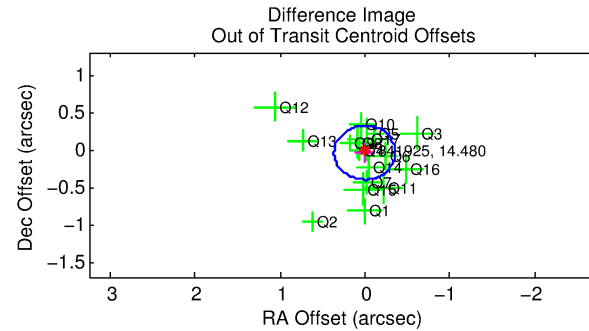
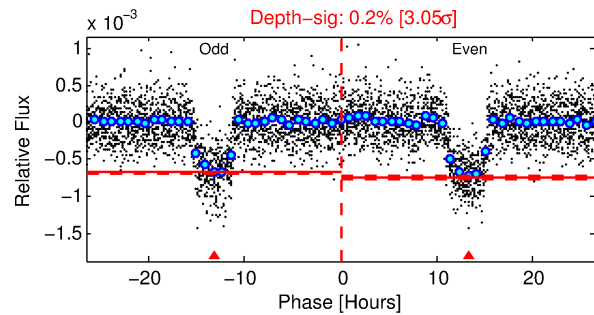
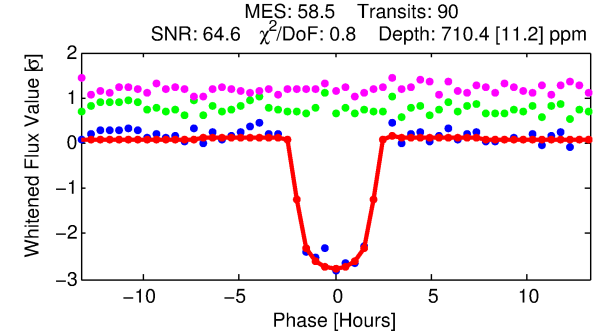
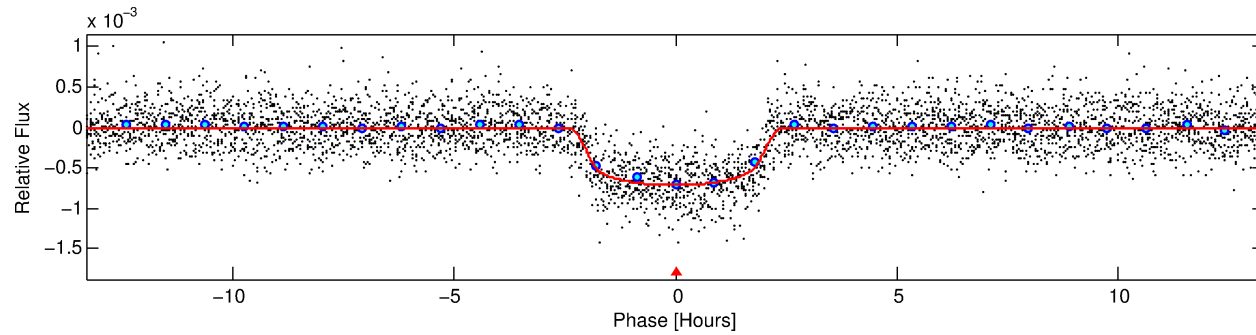
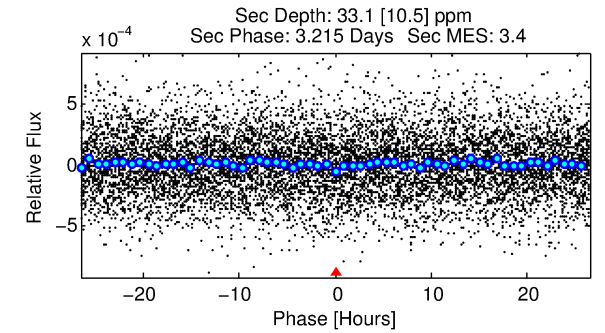
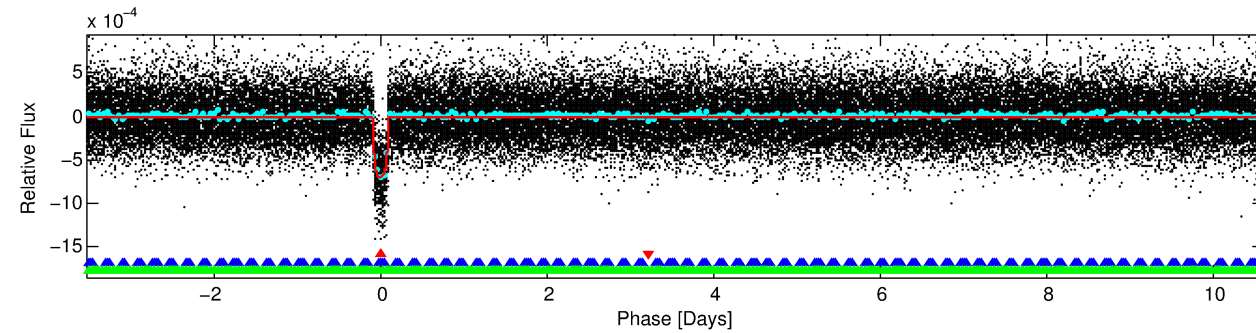
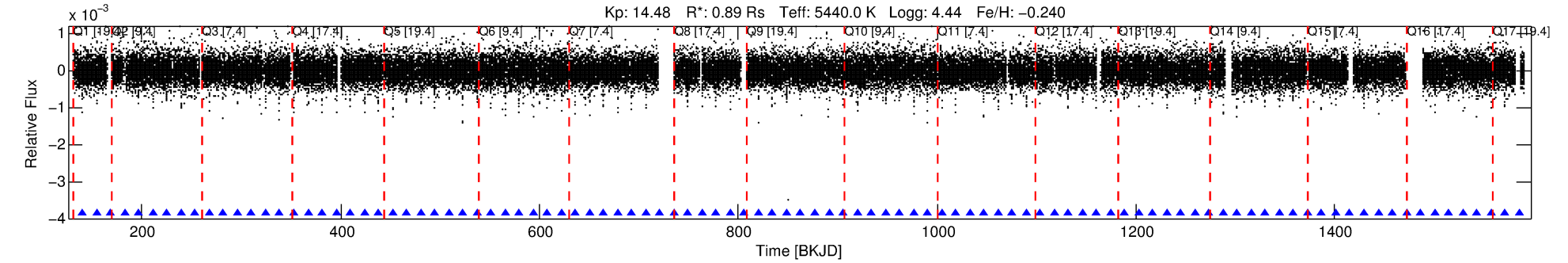
Ephemeris Match Information For 007841925-01

No Significant Match Found

DV One-Page Summary

KIC: 7841925 Candidate: 1 of 3 Period: 14.164 d

KOI: K01499.01 Corr: 0.987



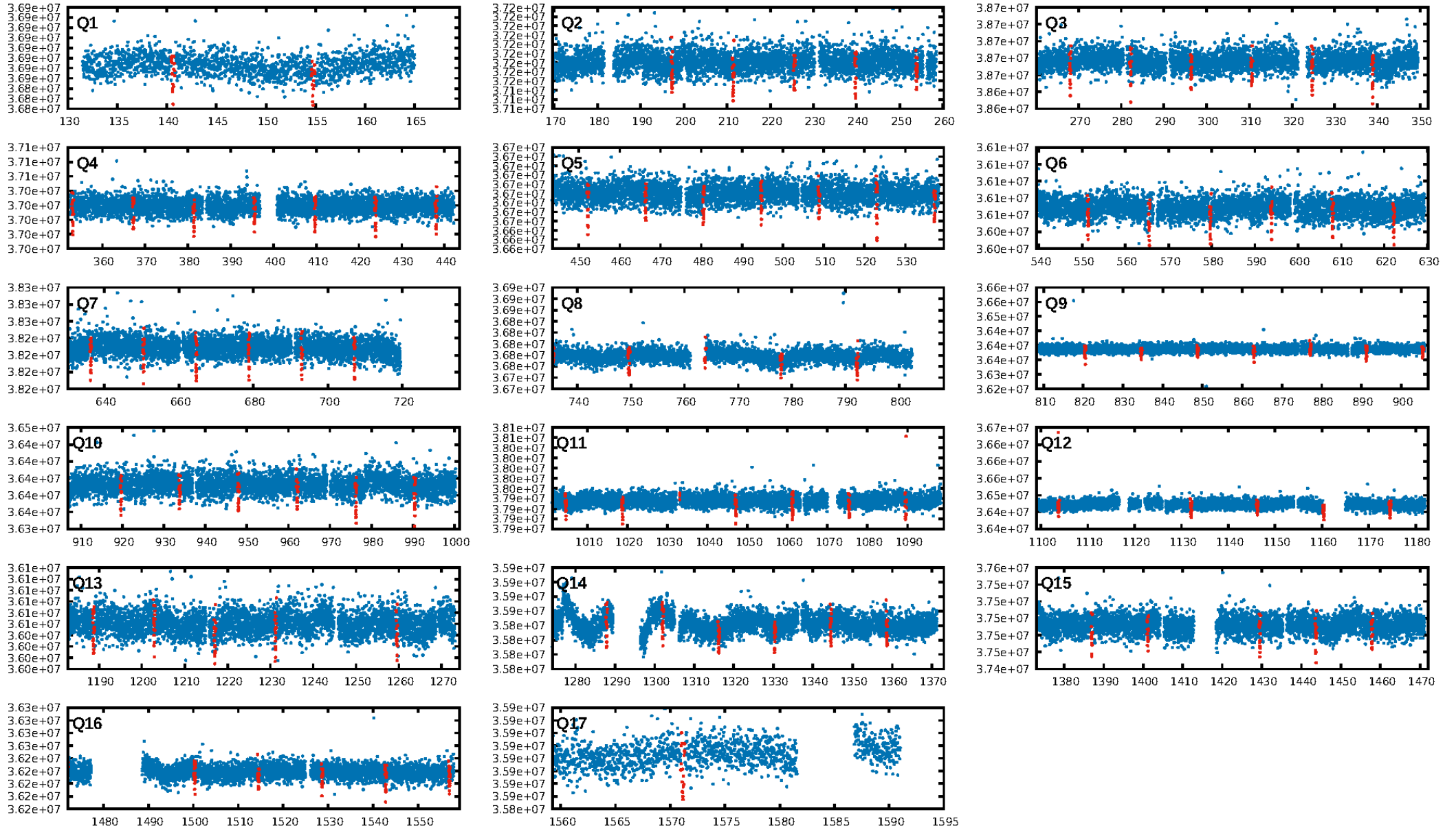
DV Fit Results:

Period = 14.16401 [0.00003] d
Epoch = 140.5892 [0.0015] BKJD
Rp/R* = 0.0271 [0.0026]
a/R* = 15.85 [6.21]
b = 0.80 [0.18]
Seff = 55.08 [19.25]
Teq = 695 [61] K
Rp = 2.62 [0.62] Re
a = 0.1056 [0.0219] AU
Ag = 29.65 [14.66] [1.95σ]
Teffp = 2506 [243] K [7.23σ]

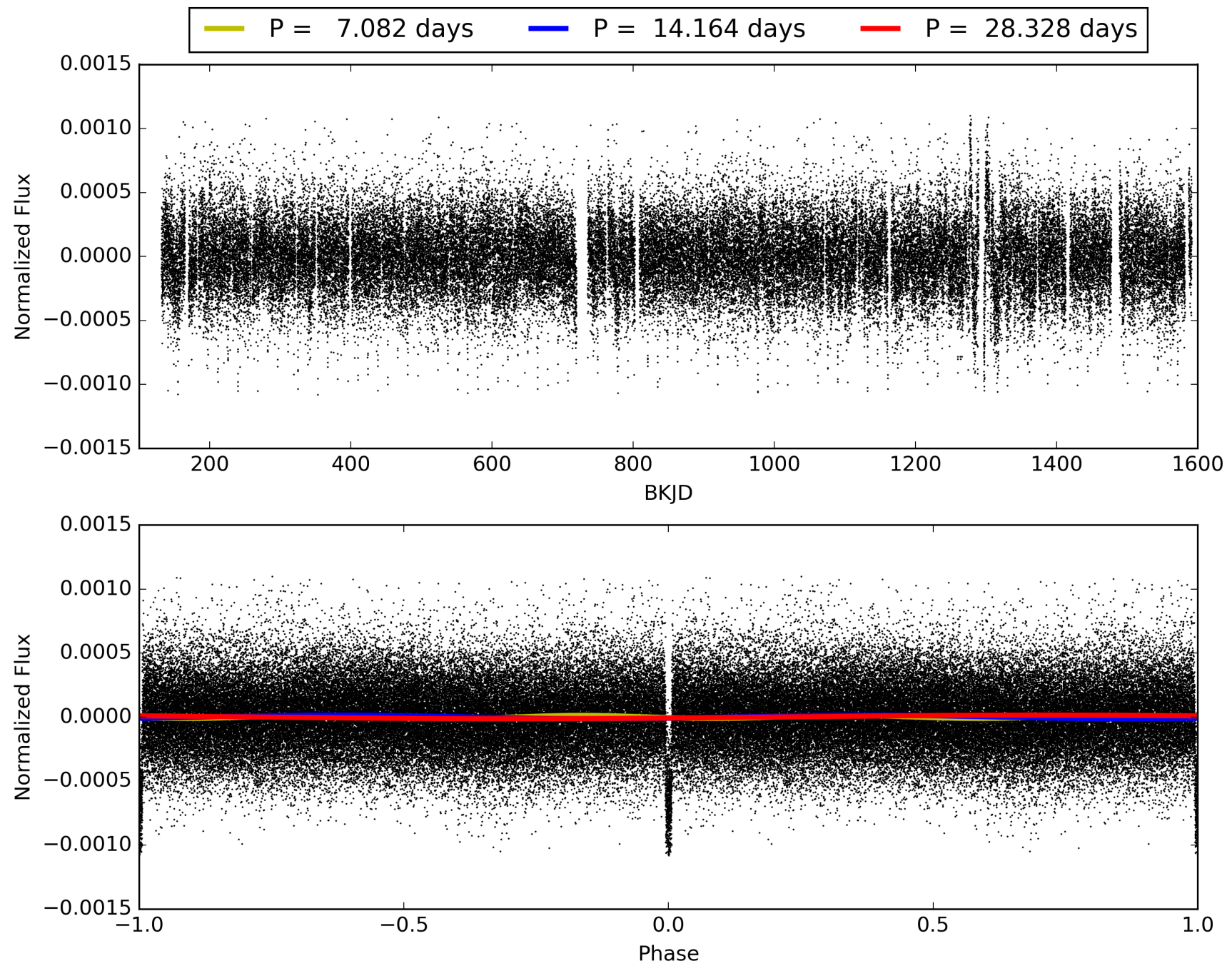
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [36.72σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 95.5%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [87/87]
GhostDiagnostic-chr: 5.354
Centroid-sig: 0.4%
Centroid-so: 0.775 arcsec [3.92σ]
OotOffset-rm: 0.040 arcsec [0.33σ]
KicOffset-rm: 0.460 arcsec [3.64σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 007841925-01, PDC Light Curves

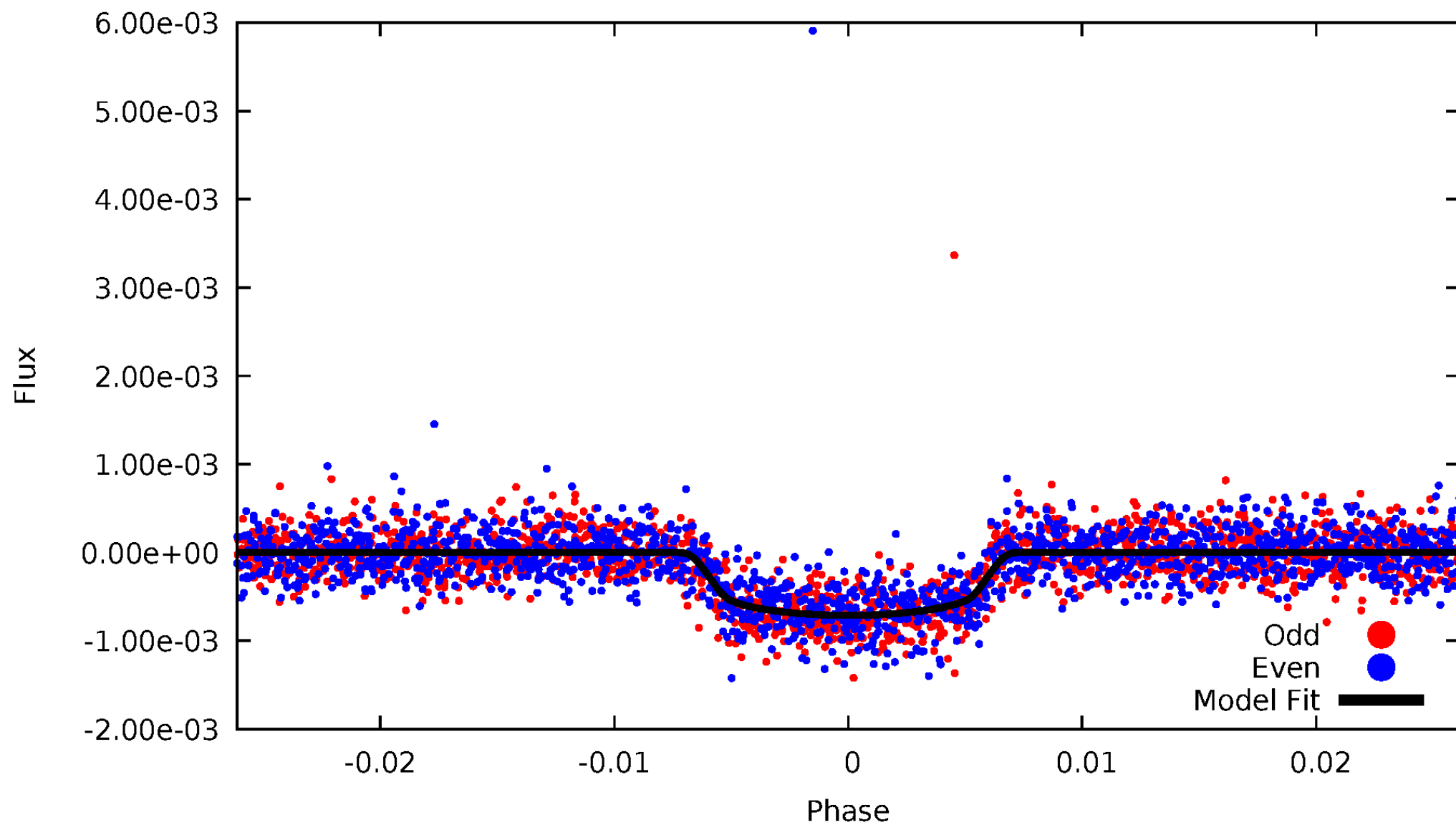


TCE 007841925-01



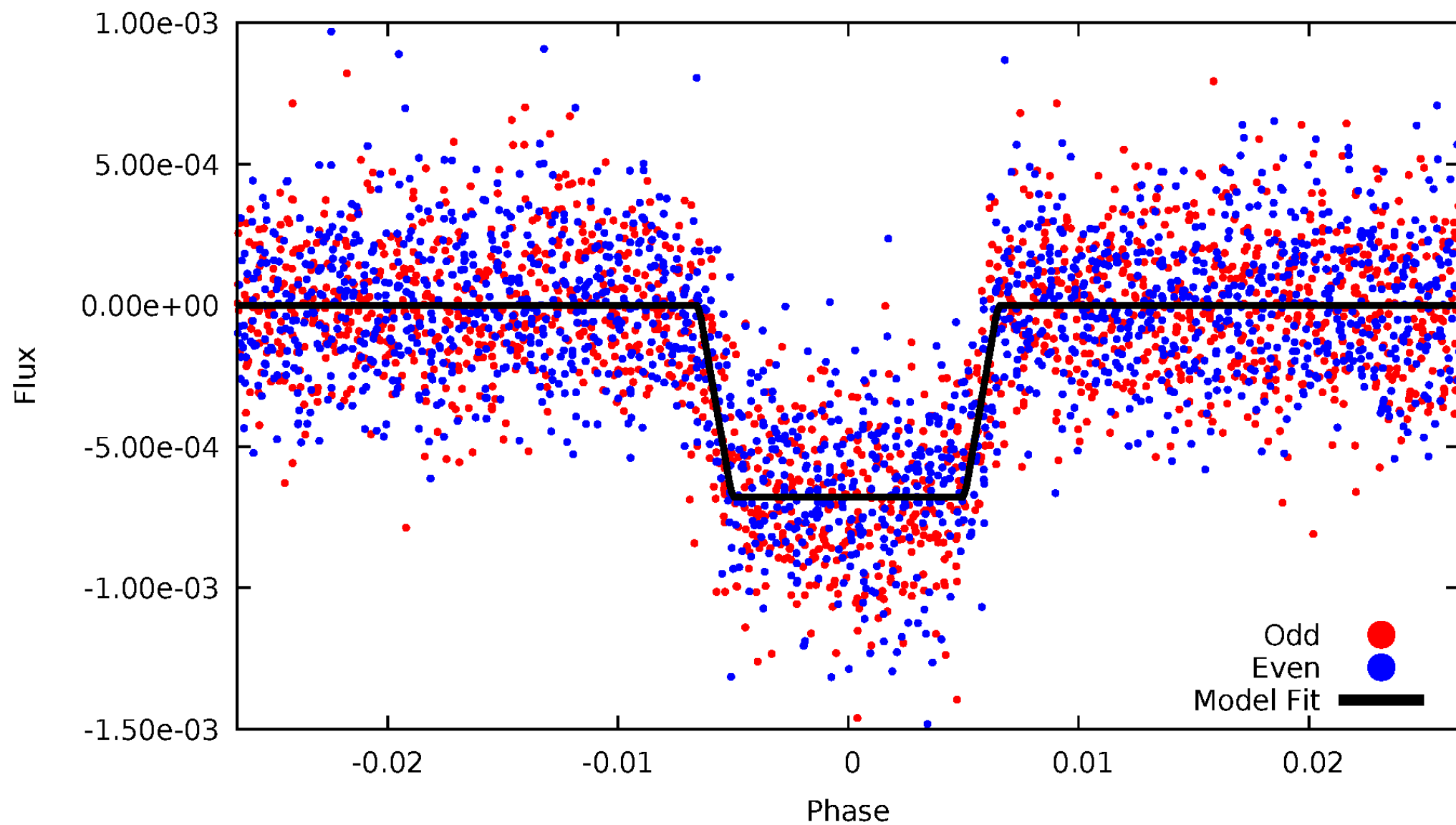
DV Odd/Even

TCE 007841925-01



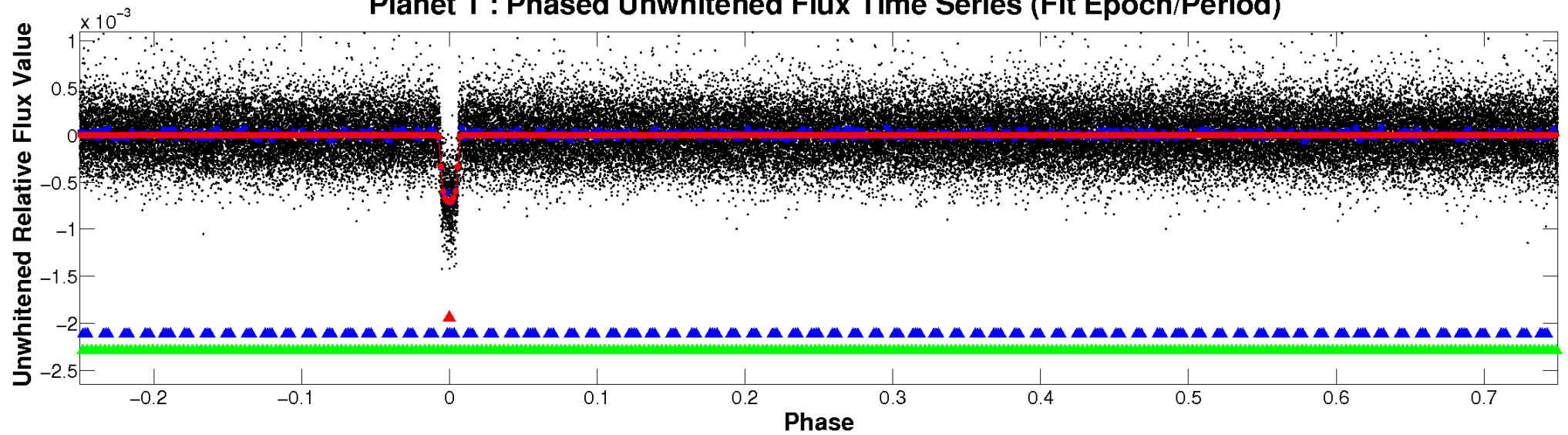
ALT Odd/Even

TCE 007841925-01

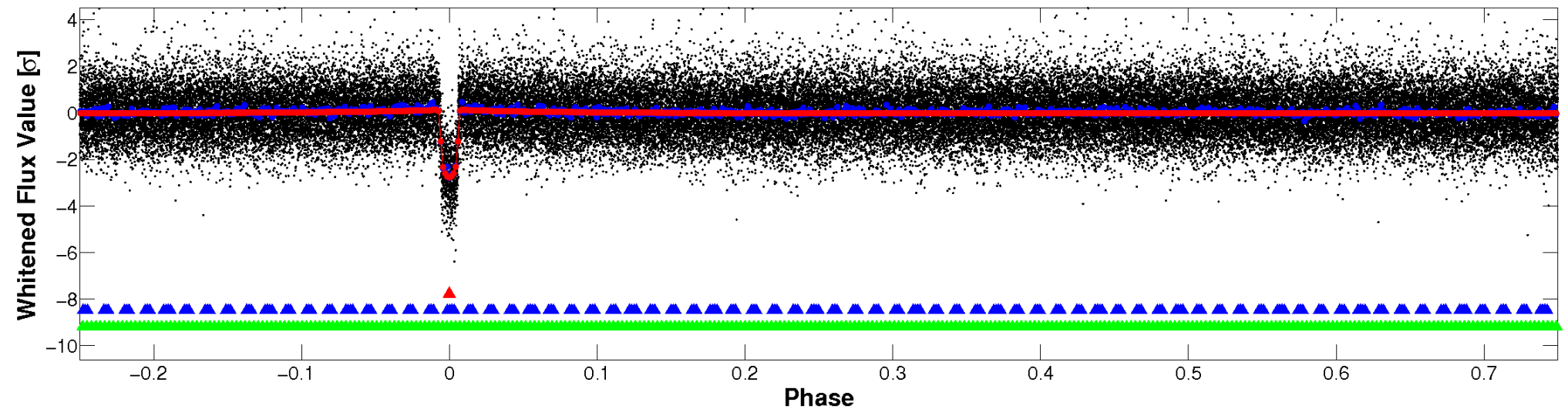


Non-Whitened Vs. Whitened Light Curve

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

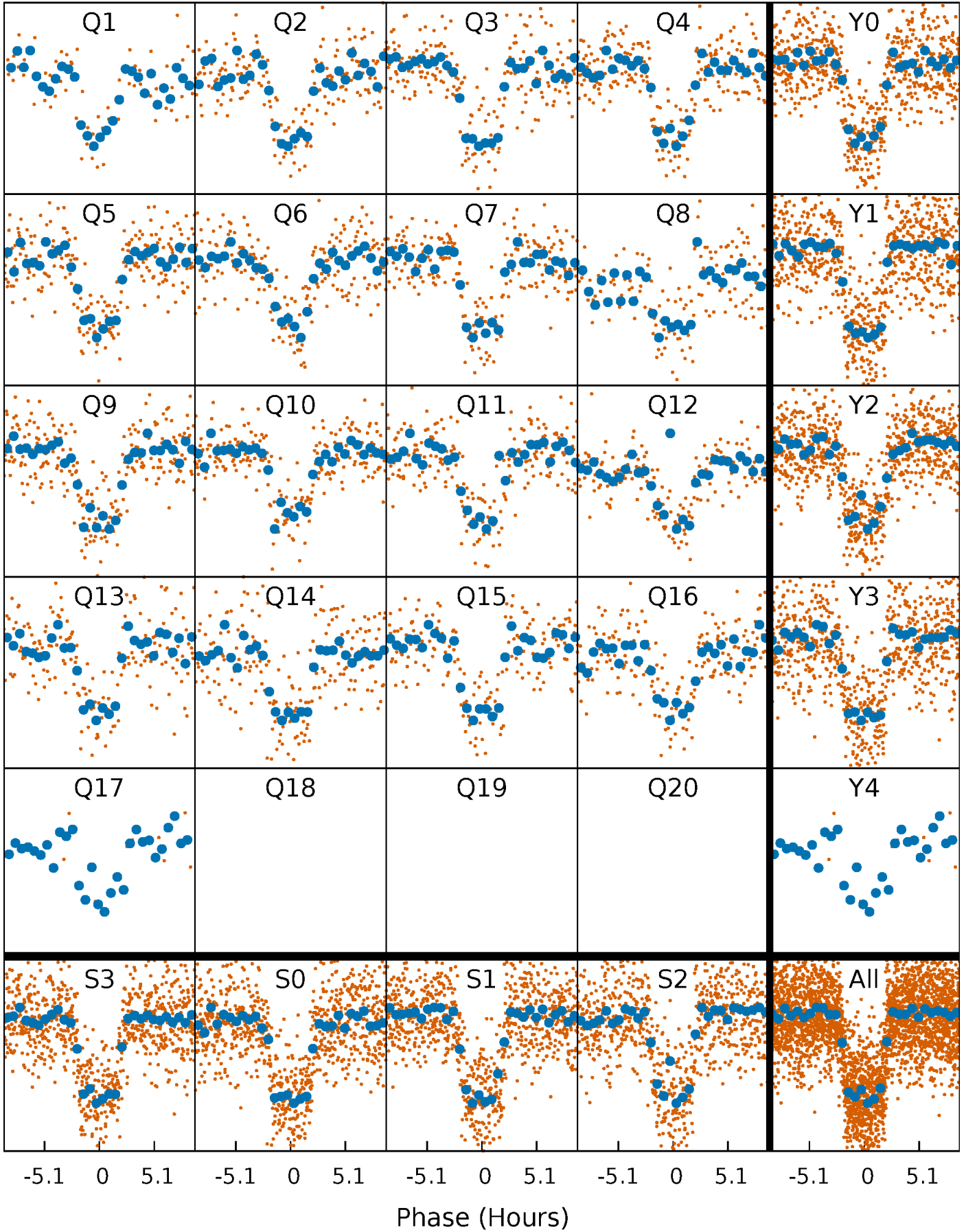


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



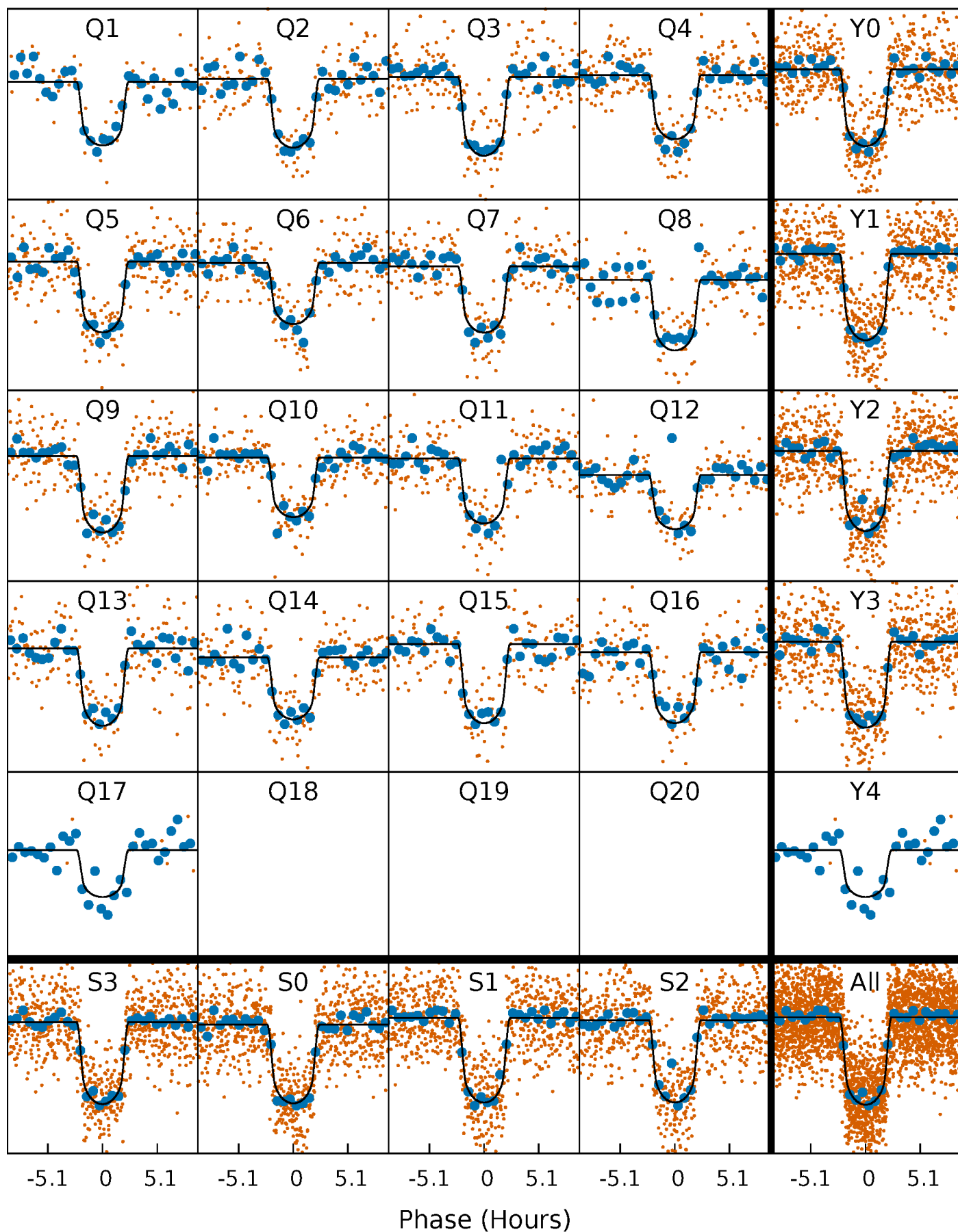
PDC Quarter-Phased Transit Curves

TCE 007841925-01 P= 14.164006 Days $T_0=140.589213$ (BKJD)



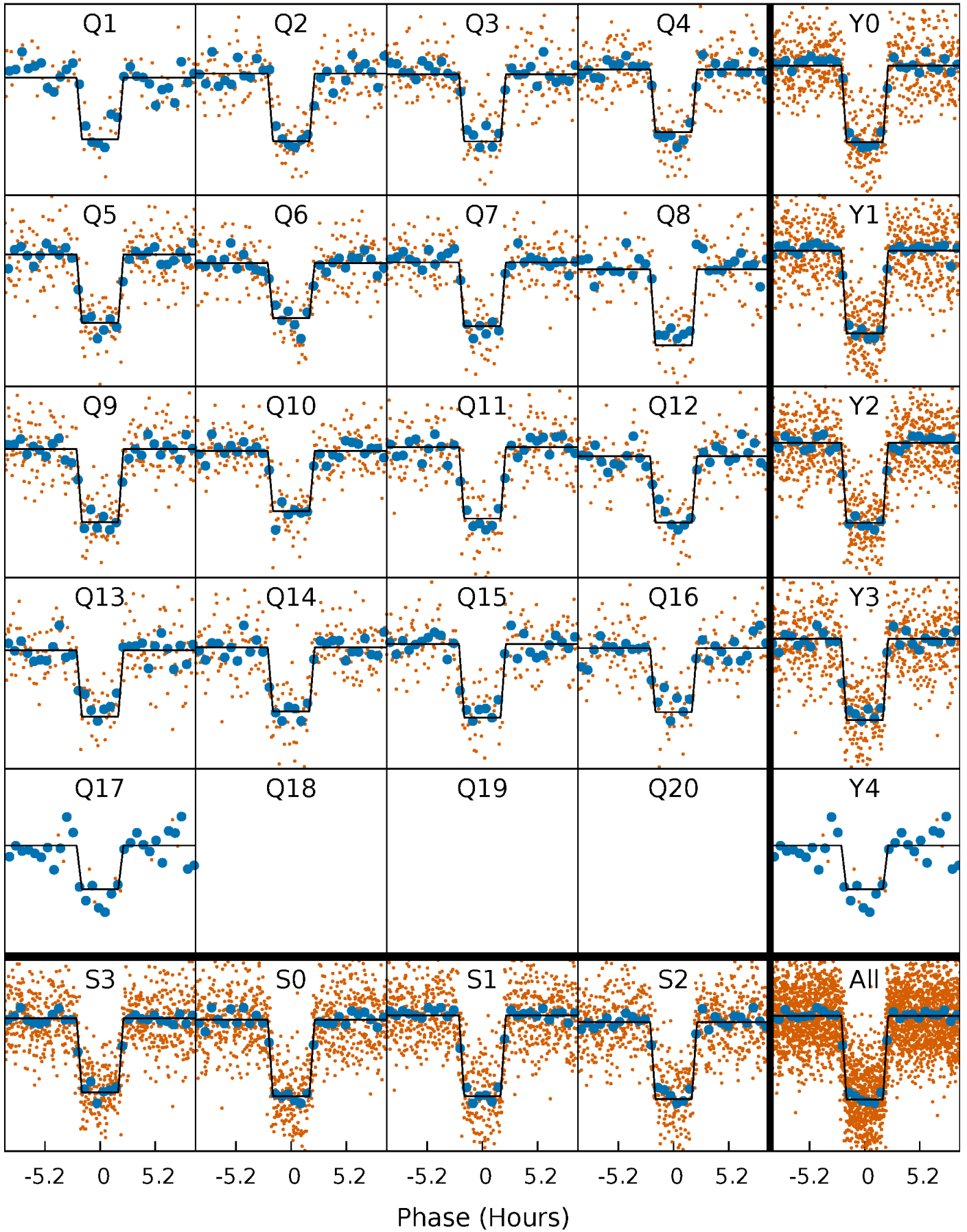
DV Quarter-Phased Transit Curves

TCE 007841925-01 P= 14.164006 Days $T_0=140.589213$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

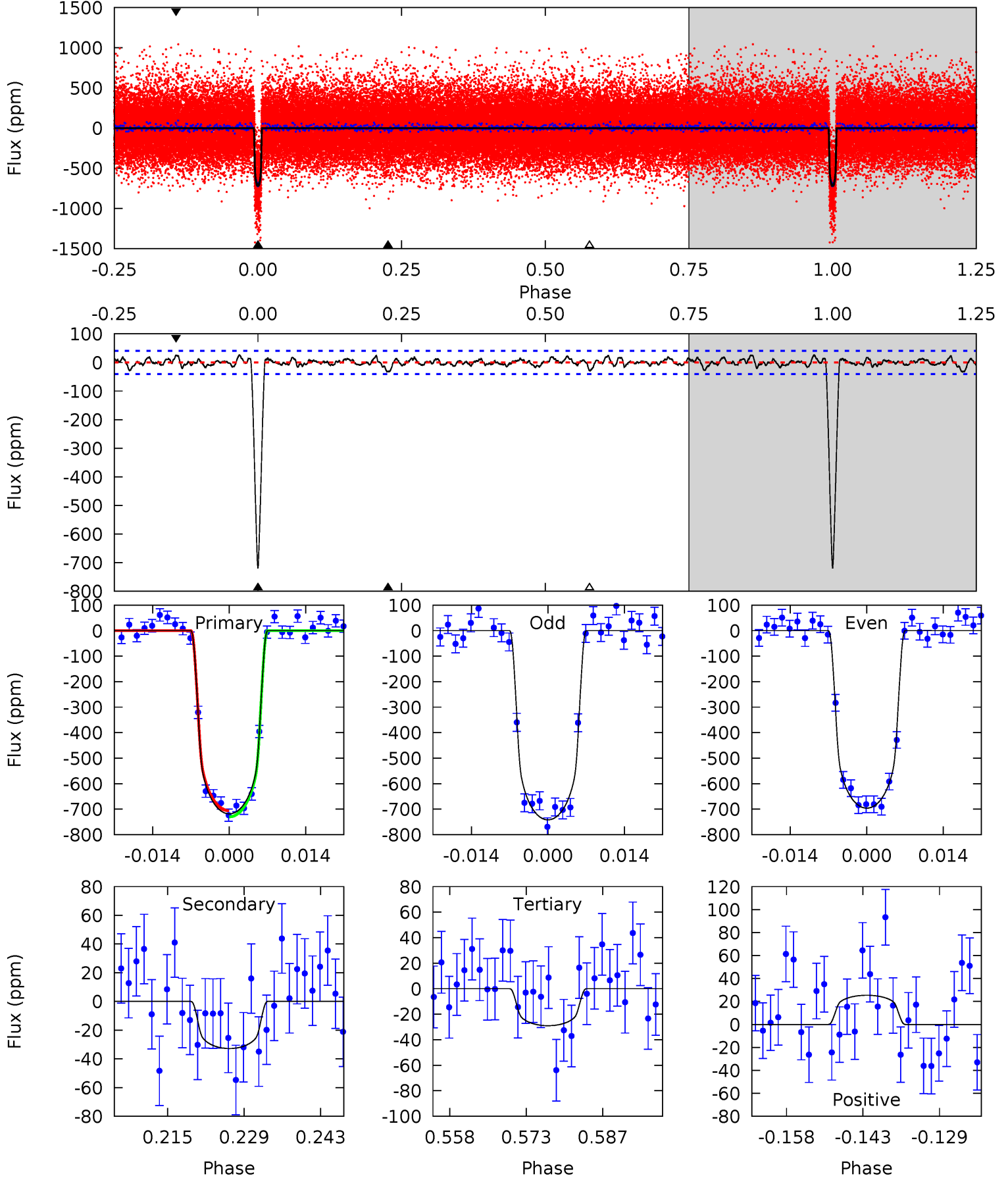
TCE 007841925-01 P= 14.164124 Days $T_0=140.583660$ (BKJD)



DV Model-Shift Uniqueness Test

007841925-01, $P = 14.164006$ Days, $E = 126.425207$ Days

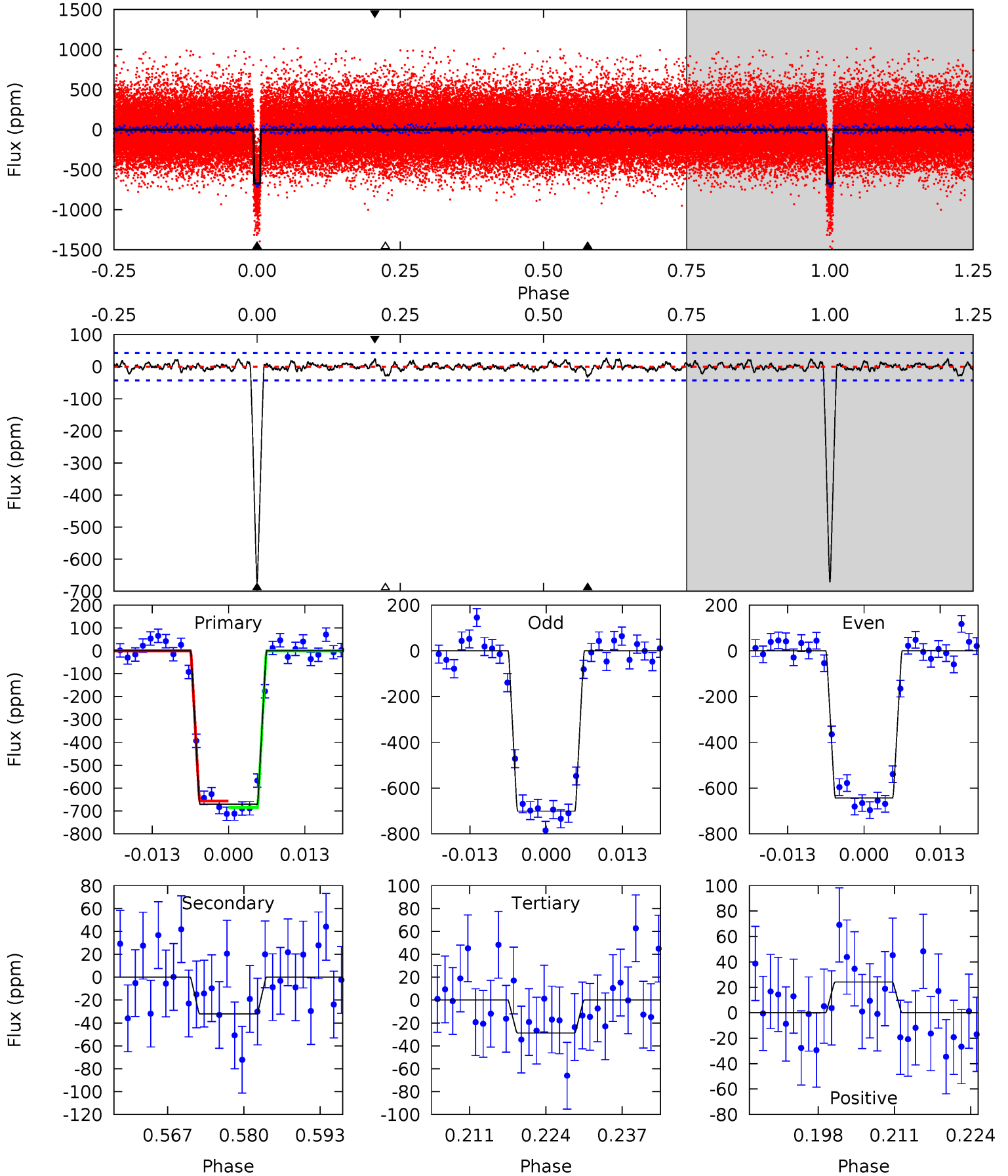
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
87.2	3.98	3.52	3.08	4.96	2.45	1.10	83.7	84.1	0.46	0.90	2.78	0.99	0.04	1.44



Alt Model-Shift Uniqueness Test

007841925-01, P = 14.164124 Days, E = 126.419536 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
78.4	3.74	3.36	2.82	4.97	2.48	1.00	75.0	75.6	0.38	0.92	3.39	1.00	0.04	1.61



Stellar Parameters For KIC 007841925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5440^{+162}_{-162}	$4.438^{+0.144}_{-0.192}$	$-0.240^{+0.350}_{-0.300}$	$0.885^{+0.193}_{-0.129}$	$0.782^{+0.116}_{-0.062}$	$1.590^{+0.978}_{-0.707}$
	+3%/-3%	+3%/-4%	+146%/-125%	+22%/-15%	+15%/-8%	+62%/-44%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007841925-01 / KOI 1499.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-33 ± 8	$2.66^{+0.48}_{-0.36}$	975^{+71}_{-57}	3098^{+165}_{-157}	28^{+14}_{-10}
Alt.	-32 ± 9	$2.56^{+0.45}_{-0.35}$	975^{+74}_{-52}	3139^{+164}_{-171}	30^{+14}_{-11}

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 $A_{obs} \gg 1.0$

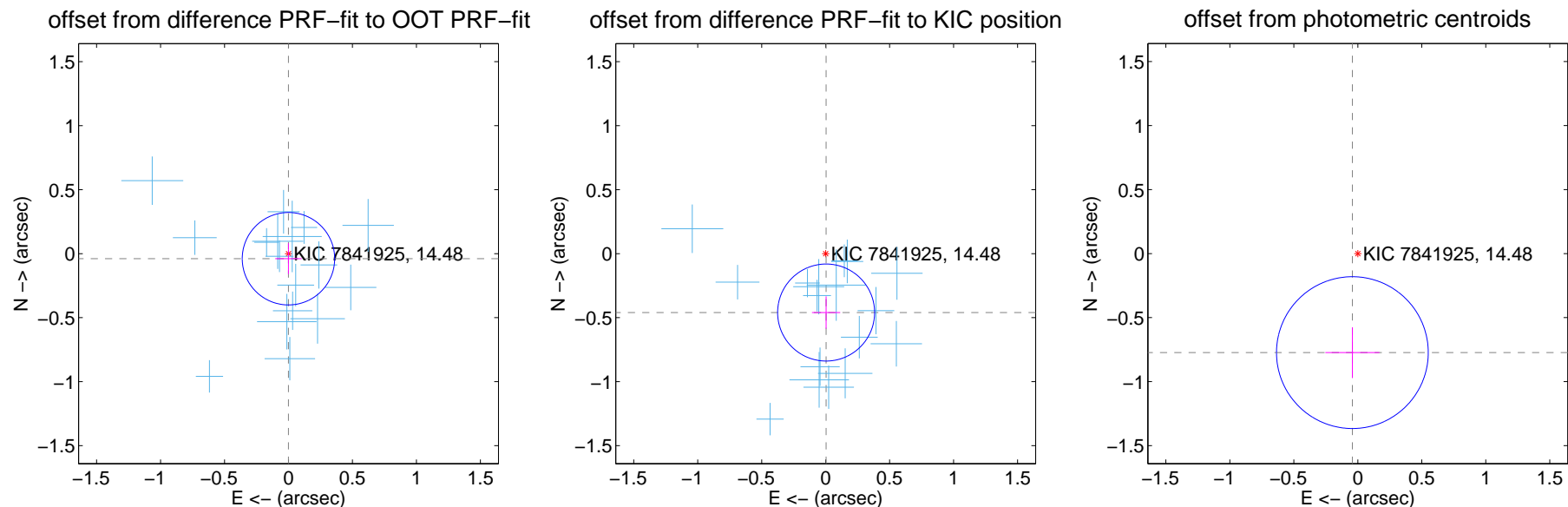
DV Centroid Data

Supplemental centroid analysis for 007841925-01. Kepler magnitude: 14.48. Transit SNR 64.61

There are 17 quarters with good PRF difference image offsets

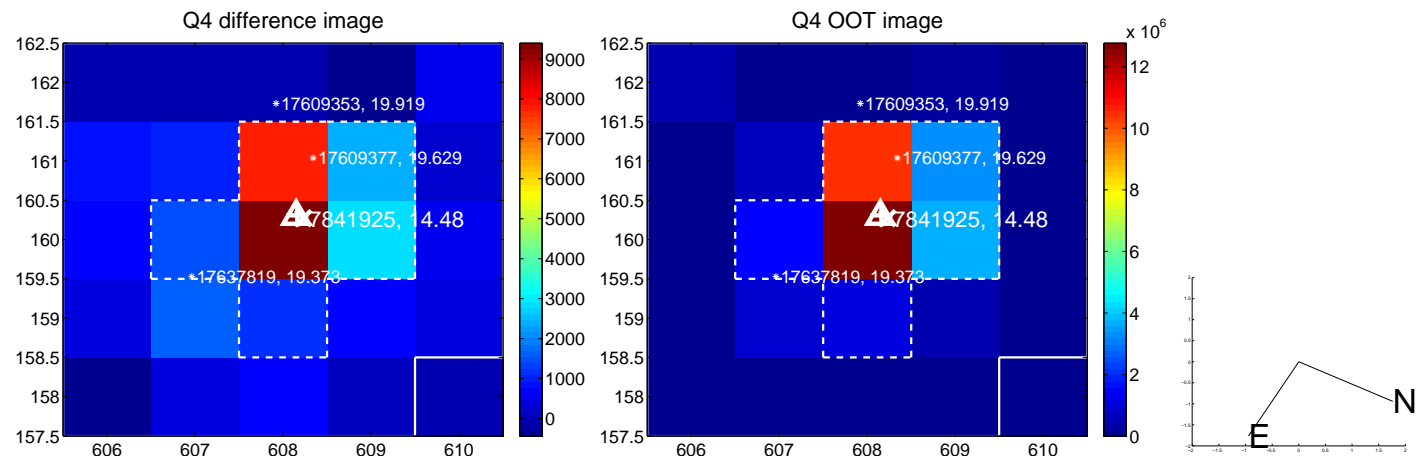
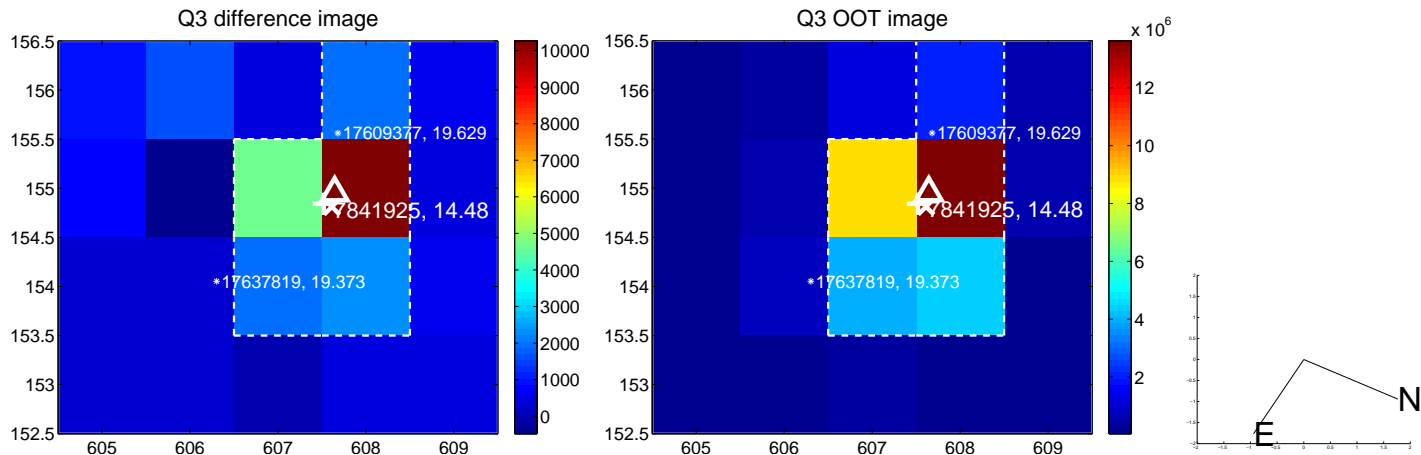
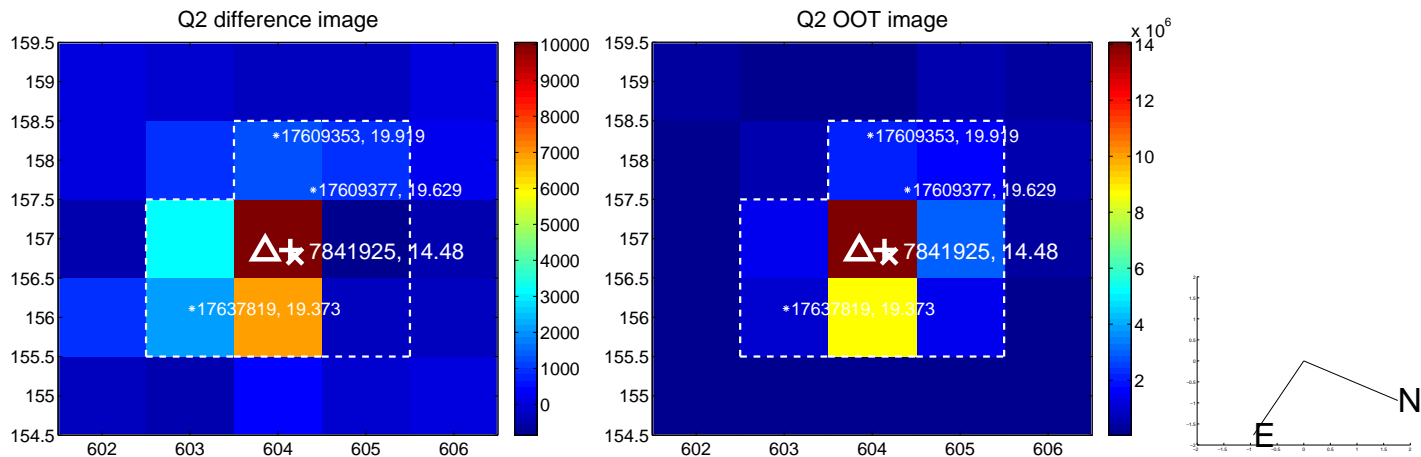
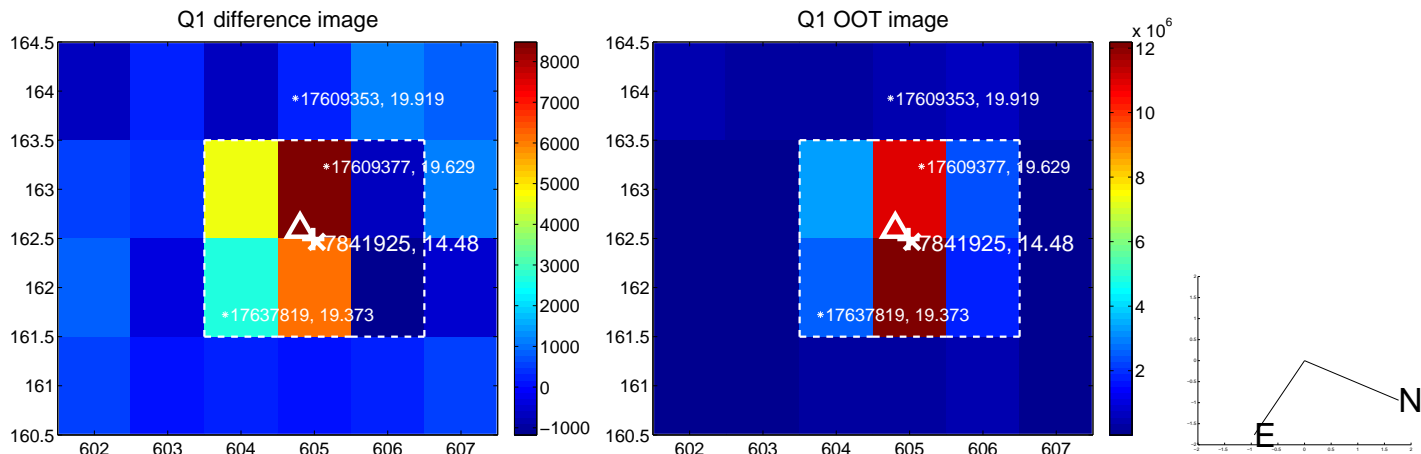
The direct PRF centroid is offset from the target star catalog position by about 0.38 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.040 ± 0.120	0.33	0.000 ± 0.103	-0.040 ± 0.120
PRF-fit source offset from KIC position	0.460 ± 0.126	3.64	-0.004 ± 0.110	-0.460 ± 0.126
photometric centroid source offset	0.77 ± 0.20	3.92	0.04 ± 0.21	-0.77 ± 0.20

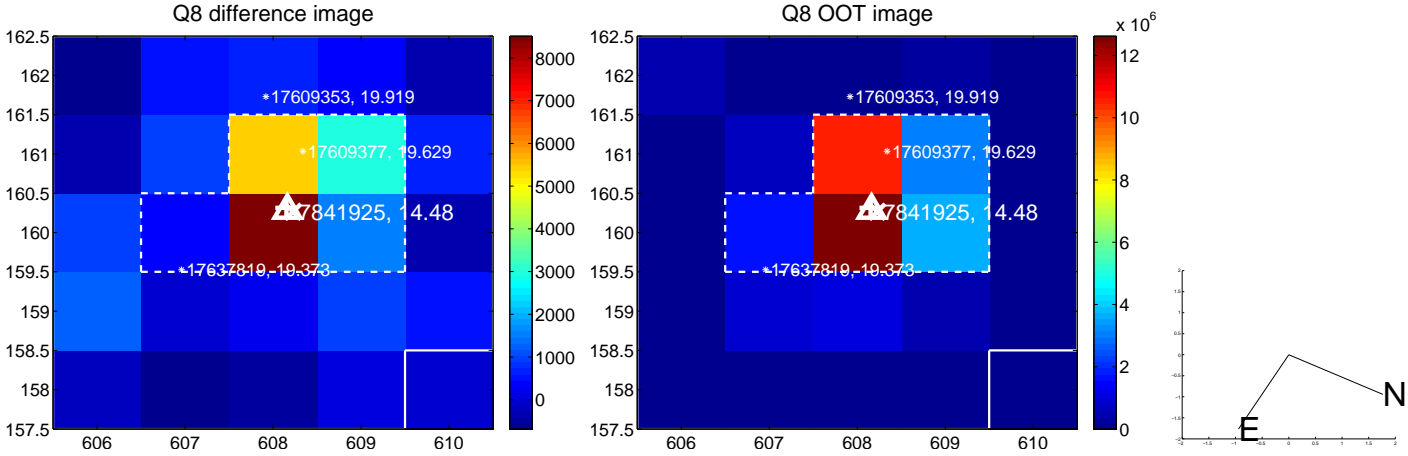
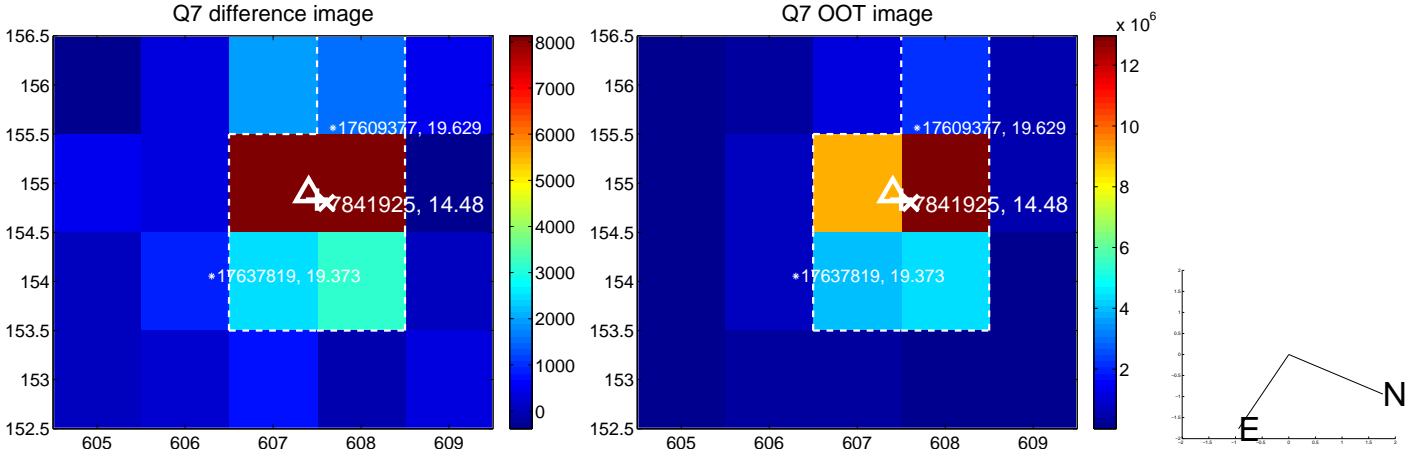
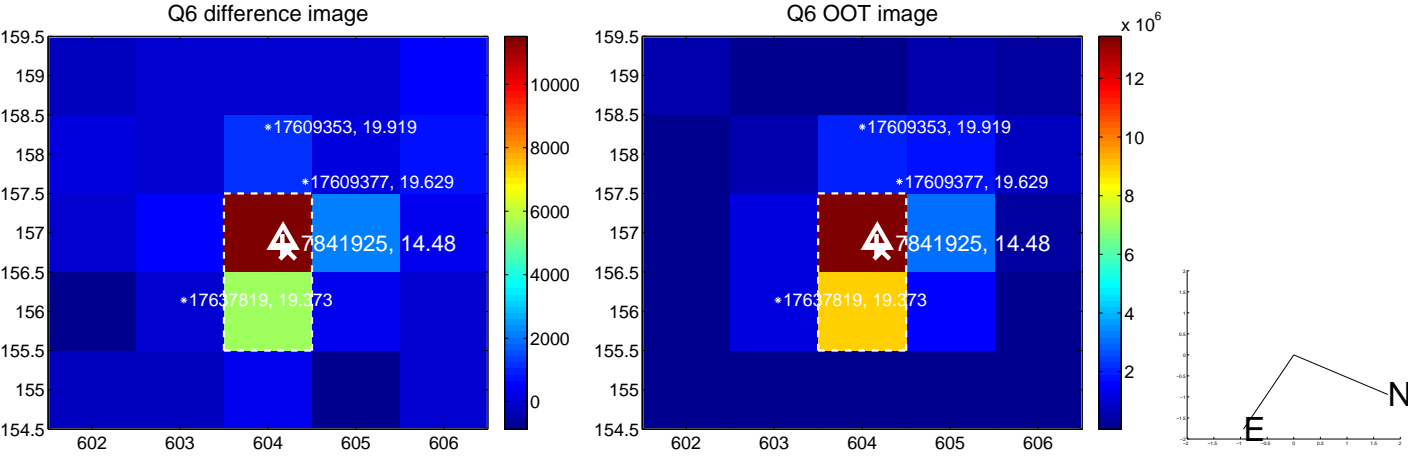
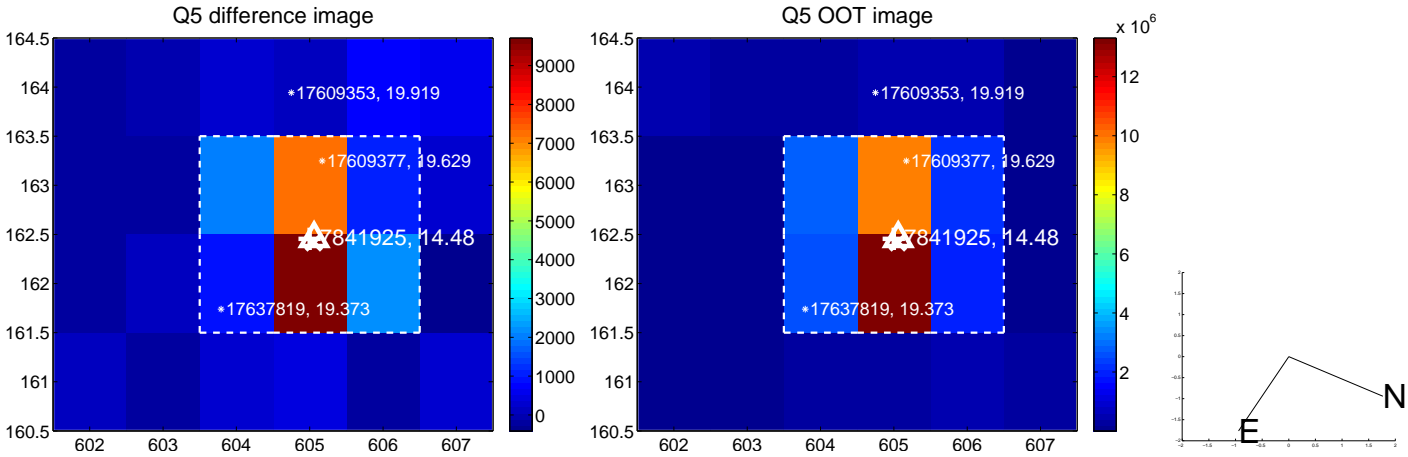


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

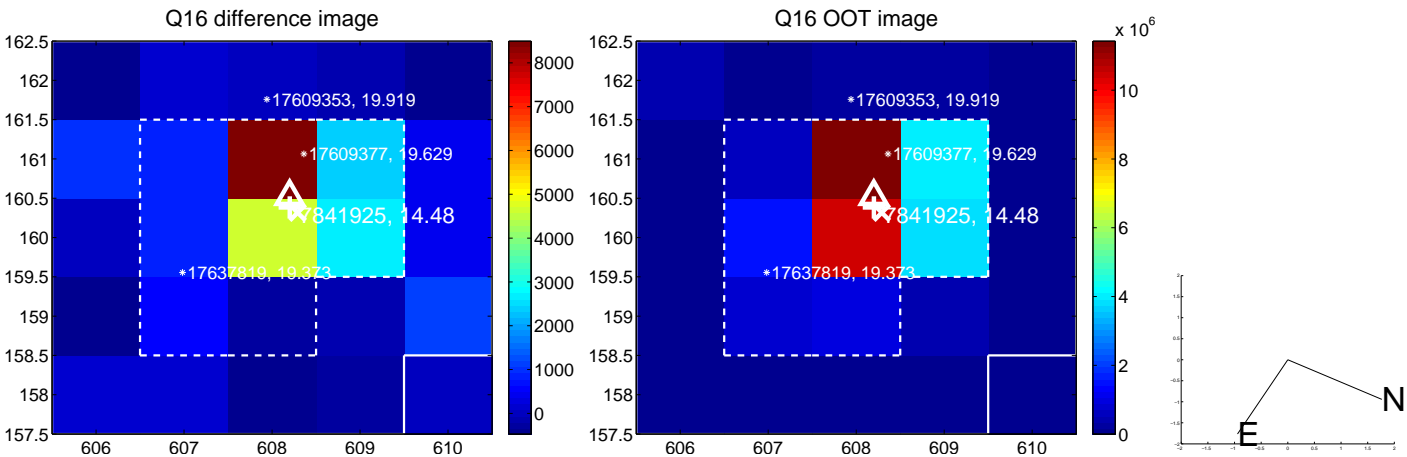
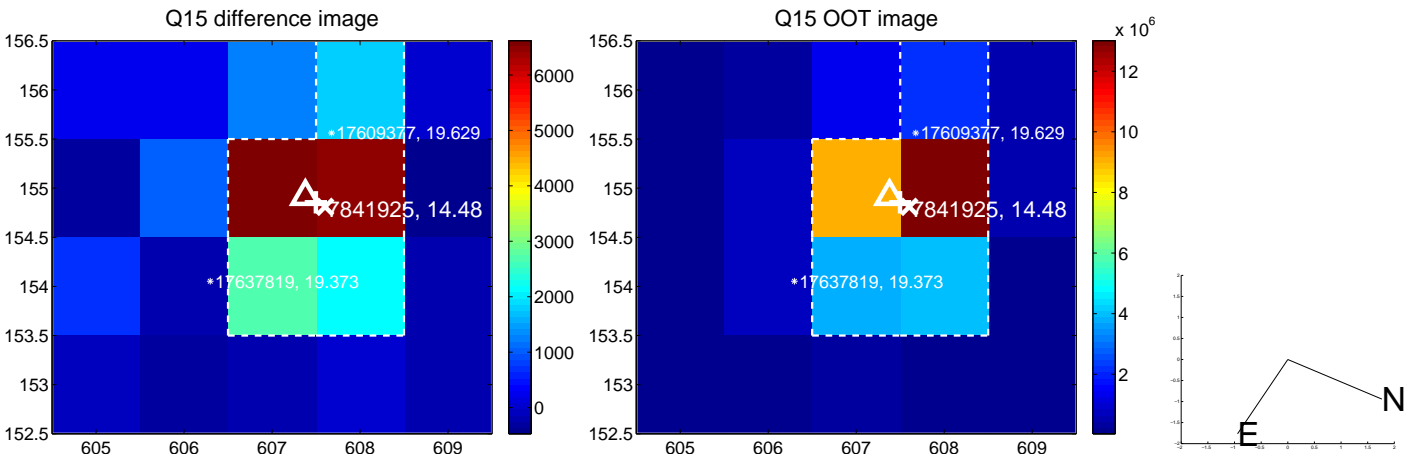
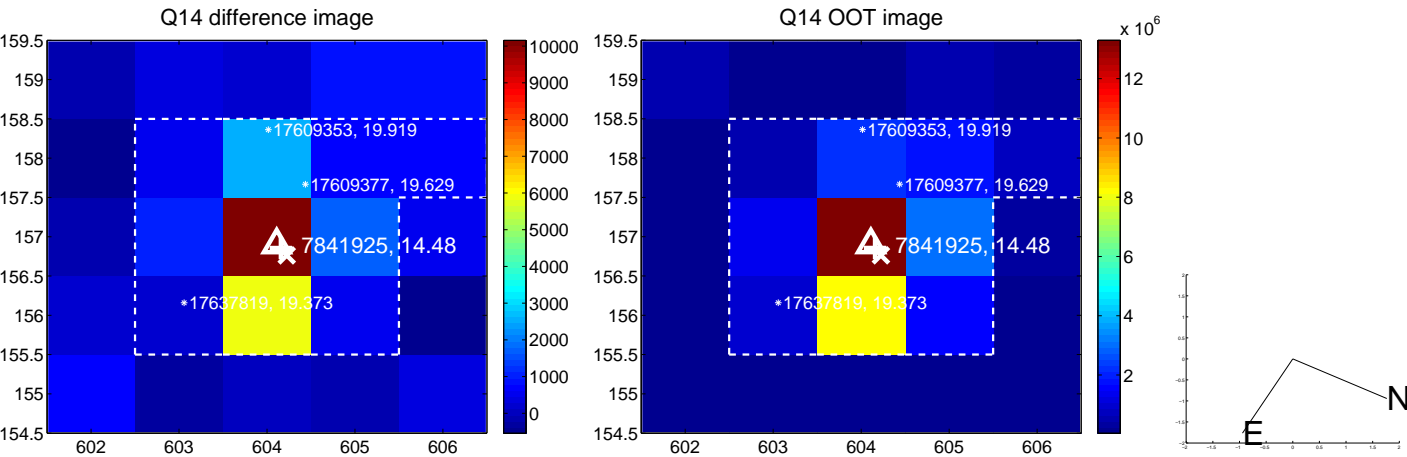
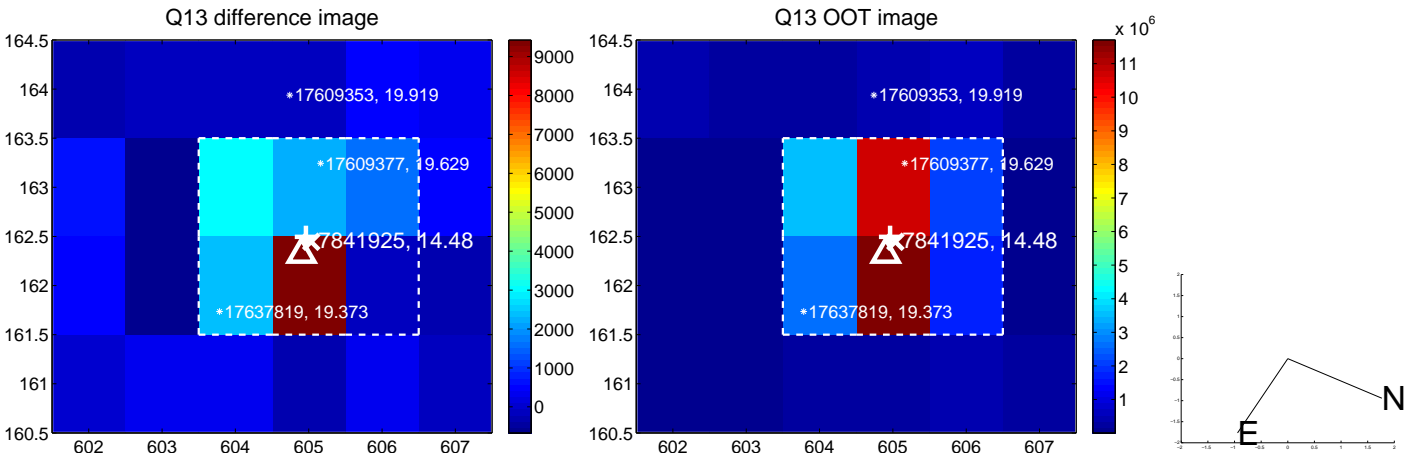
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



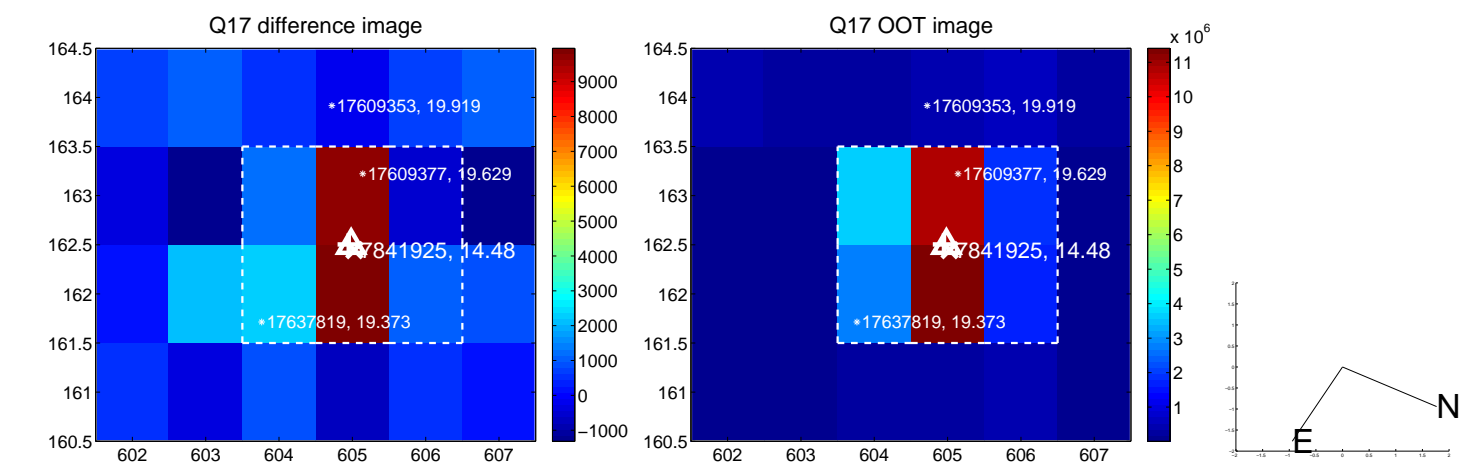
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



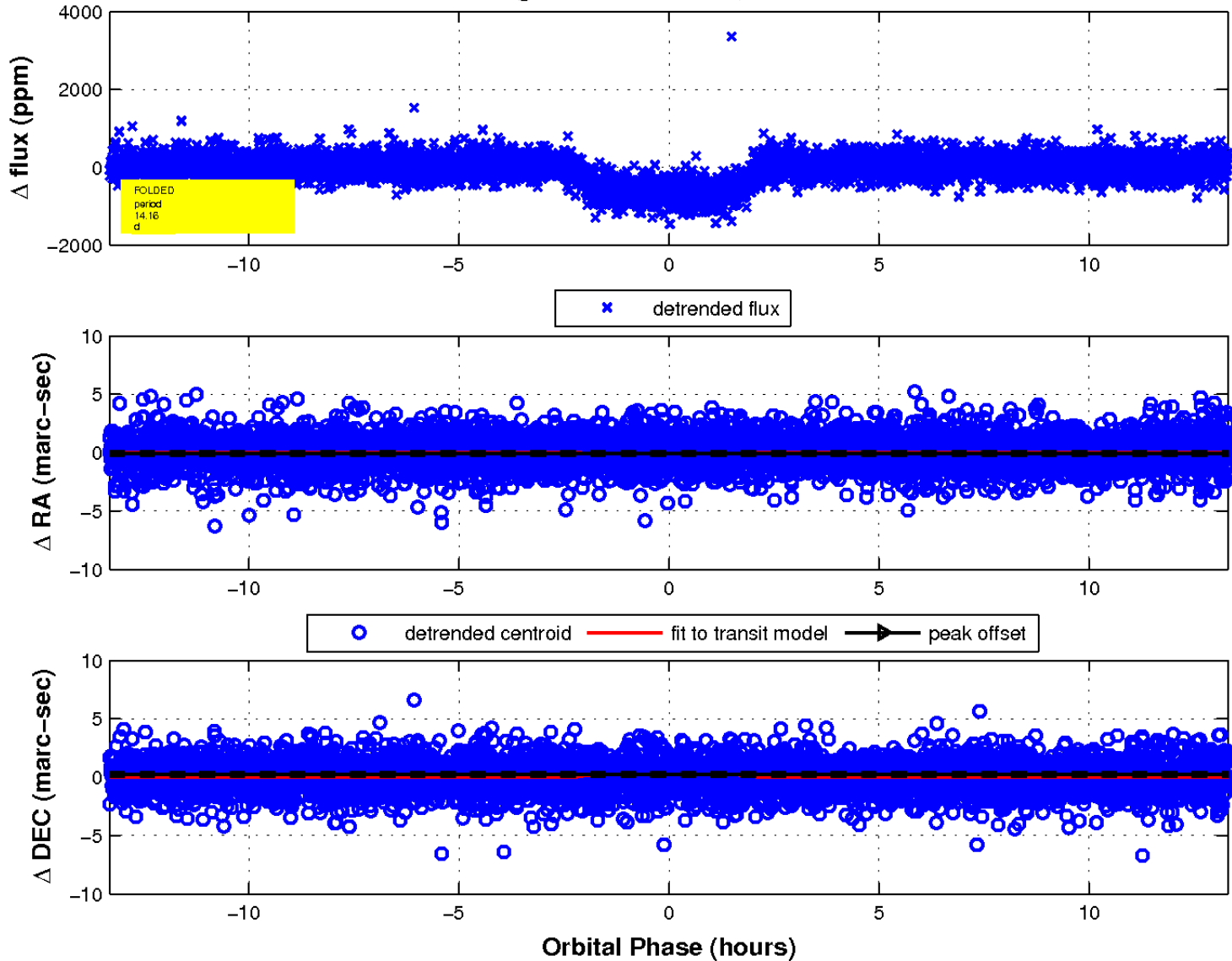
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

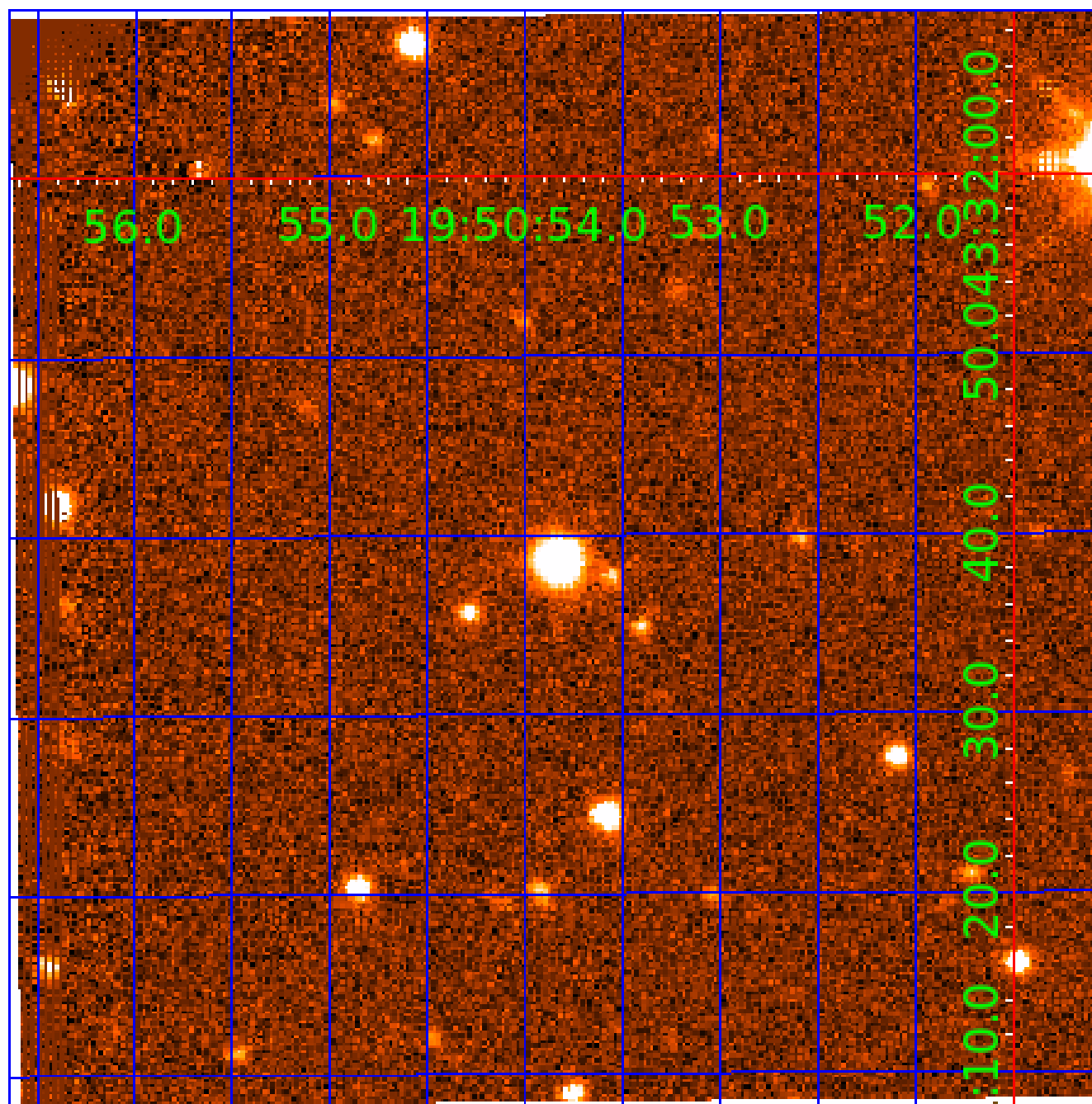


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 007841925

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})
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007841925-03	OBS	1499.02	0.840591	131.740581	44.2	1.264	8.4	9.3	0.89	5440	0.58	2379.43

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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007841925-02	OBS	PC	0.46	0	0	0	0	CENT_KIC_POS
007841925-03	OBS	PC	0.94	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.

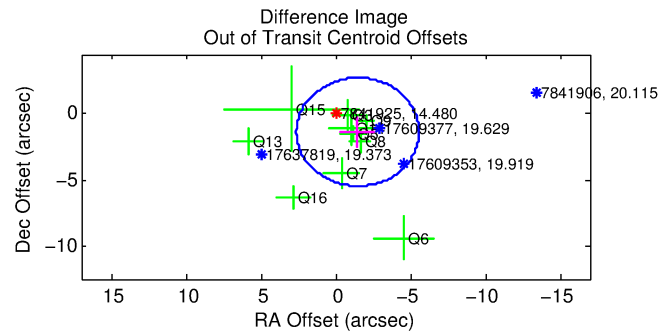
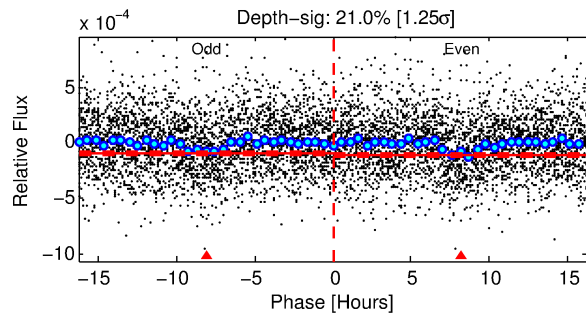
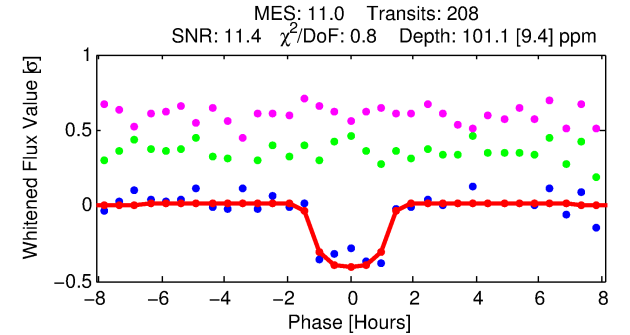
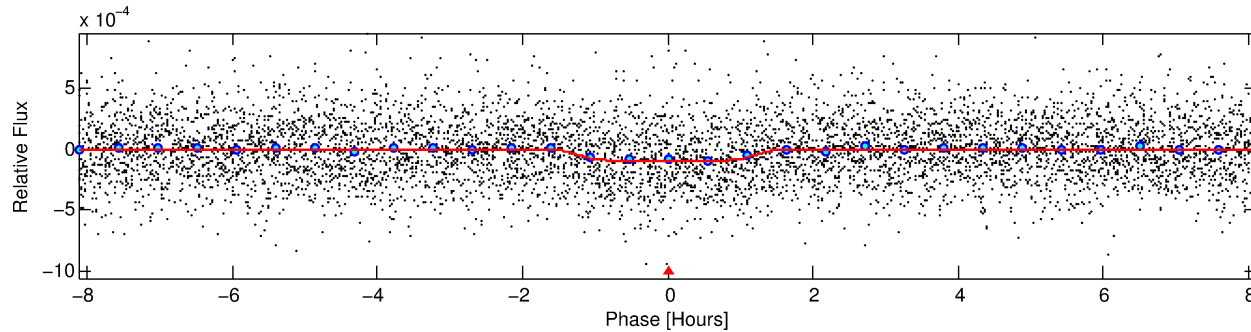
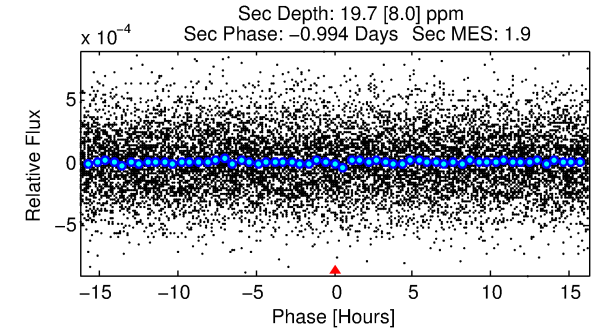
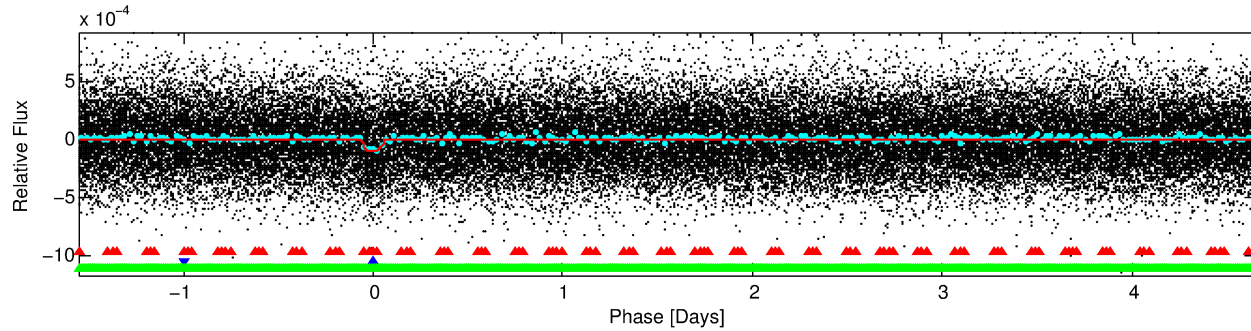
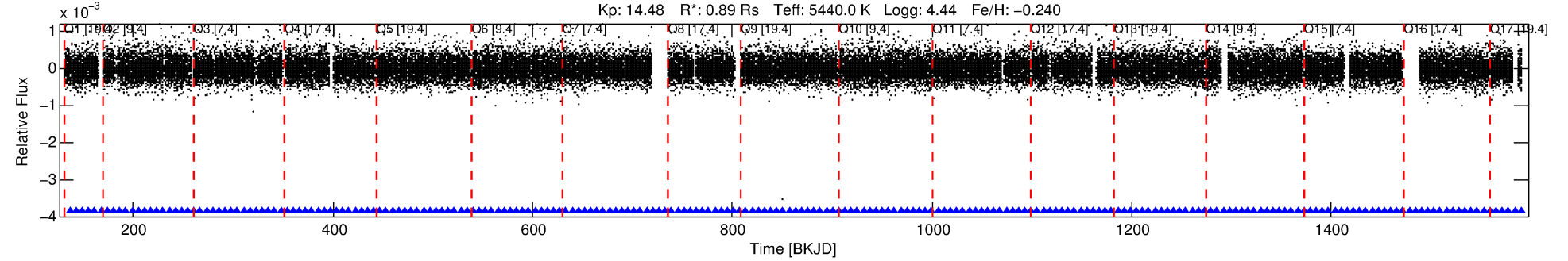
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007841925-02

No Significant Match Found

DV One-Page Summary

KIC: 7841925 Candidate: 2 of 3 Period: 6.209 d
KOI: K01499.03 Corr: 0.945



DV Fit Results:

Period = 6.20918 [0.00004] d
Epoch = 136.8792 [0.0049] BKJD
Rp/R* = 0.0110 [0.0080]
a/R* = 8.24 [26.84]
b = 0.90 [0.74]
Seff = 165.40 [57.82]
Teq = 914 [80] K
Rp = 1.06 [0.81] Re
a = 0.0610 [0.0126] AU
Ag = 35.74 [55.34] [0.63σ]
Teffp = 3457 [1312] K [1.93σ]

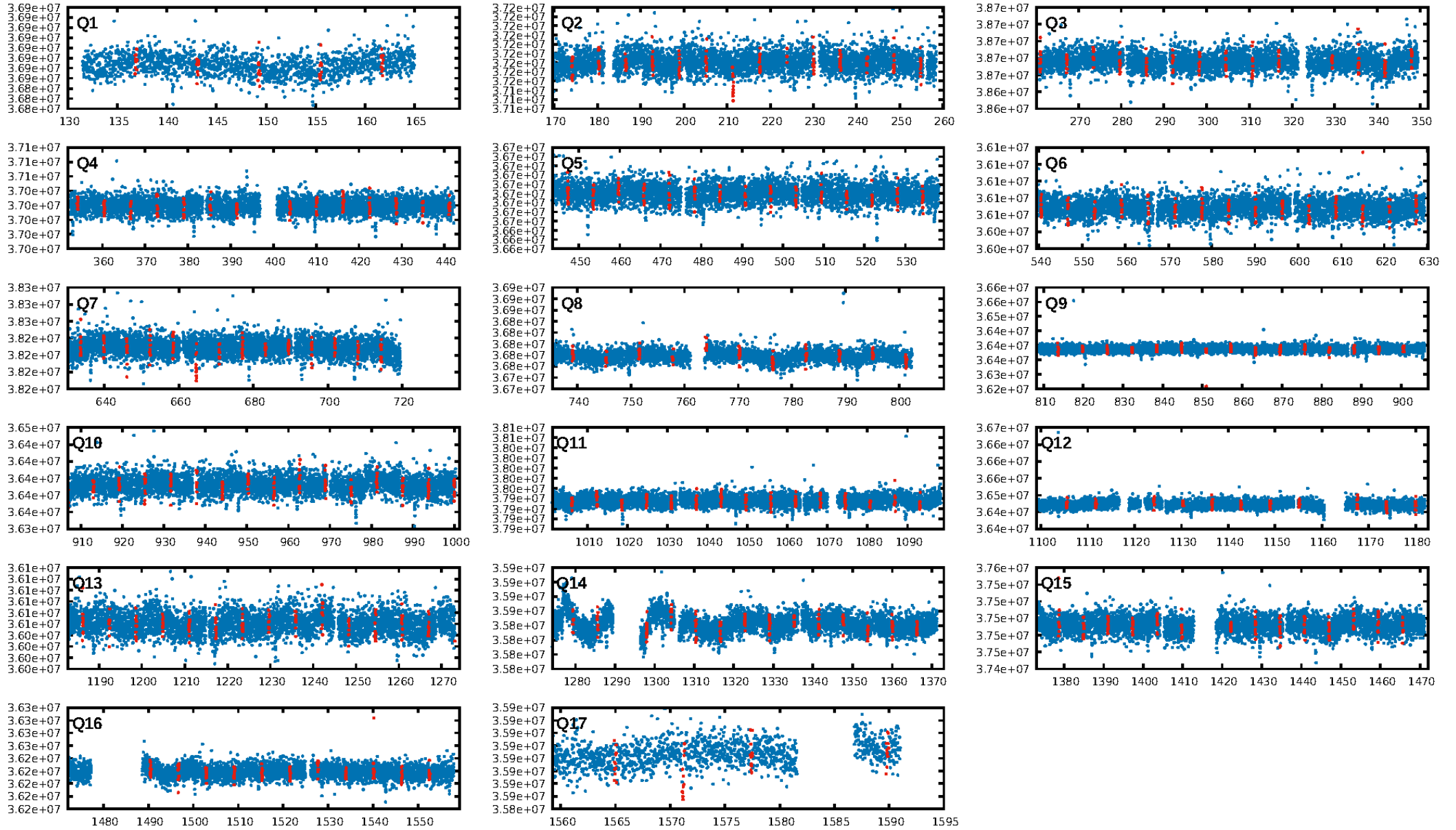
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [43.14σ]
LongPeriod-sig: 100.0% [36.72σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.93e-28
RollingBand-fgt: 1.00 [200/200]
GhostDiagnostic-chr: 12.91
Centroid-sig: 0.0%
Centroid-so: 4.508 arcsec [4.06σ]
OotOffset-rm: 2.008 arcsec [1.47σ]
OotOffset-st: 2/3/2/3 [10]
KicOffset-rm: 2.235 arcsec [2.00σ]
KicOffset-st: 2/3/2/3 [10]
DiffImageQuality-fgm: 0.40 [4/10]
DiffImageOverlap-fno: 1.00 [17/17]

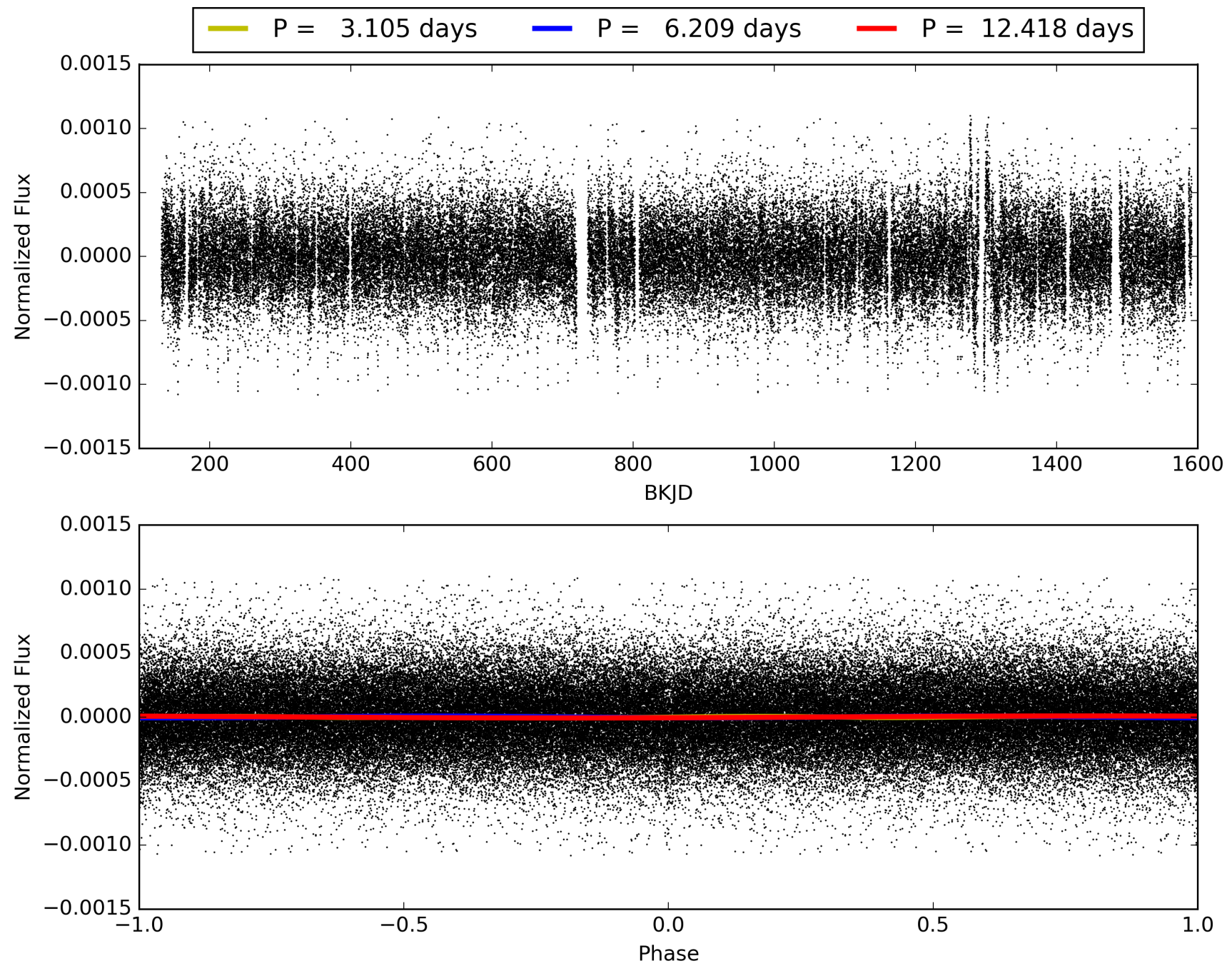
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 07:39:39 Z

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

TCE 007841925-02, PDC Light Curves

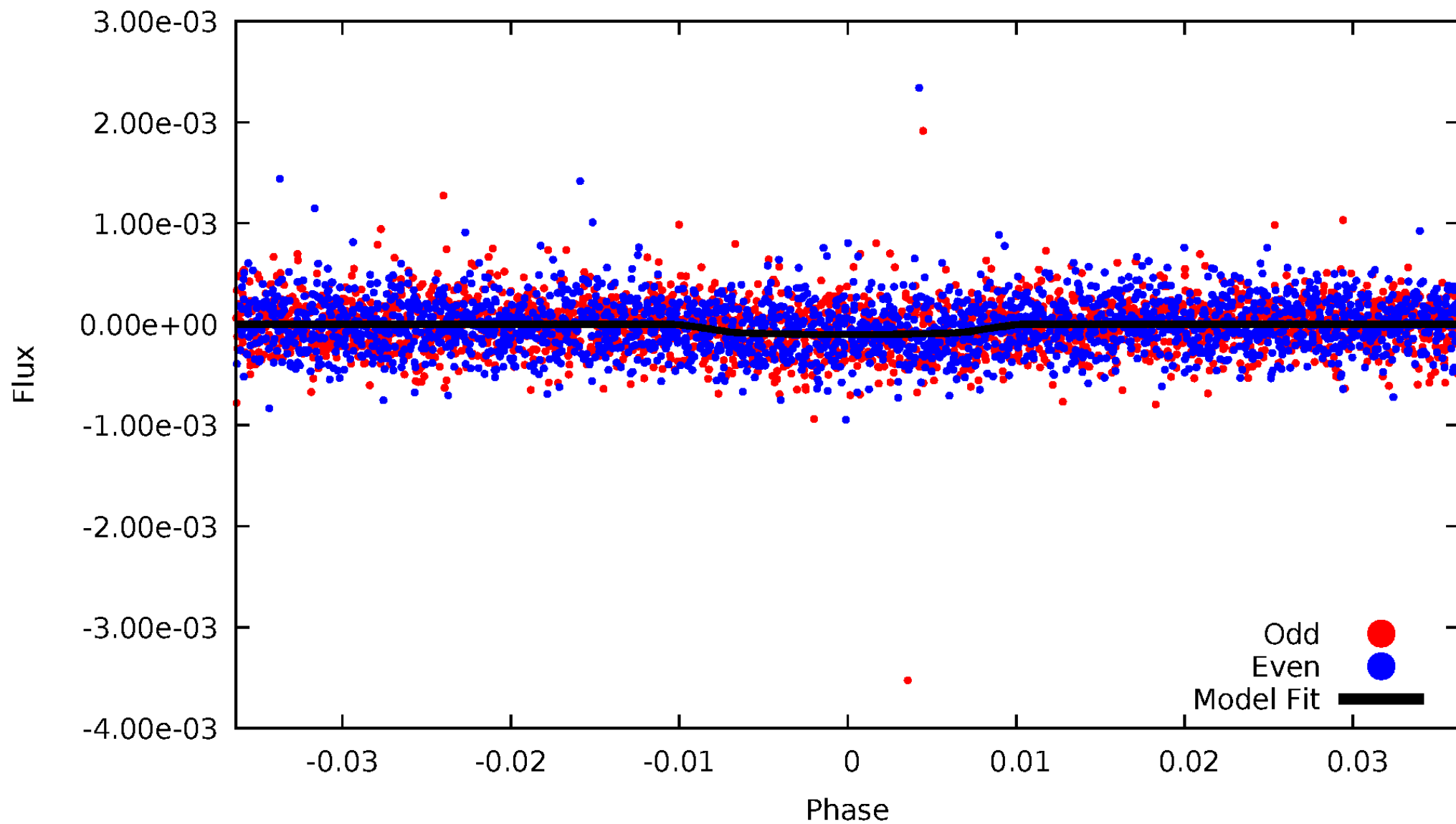


TCE 007841925-02



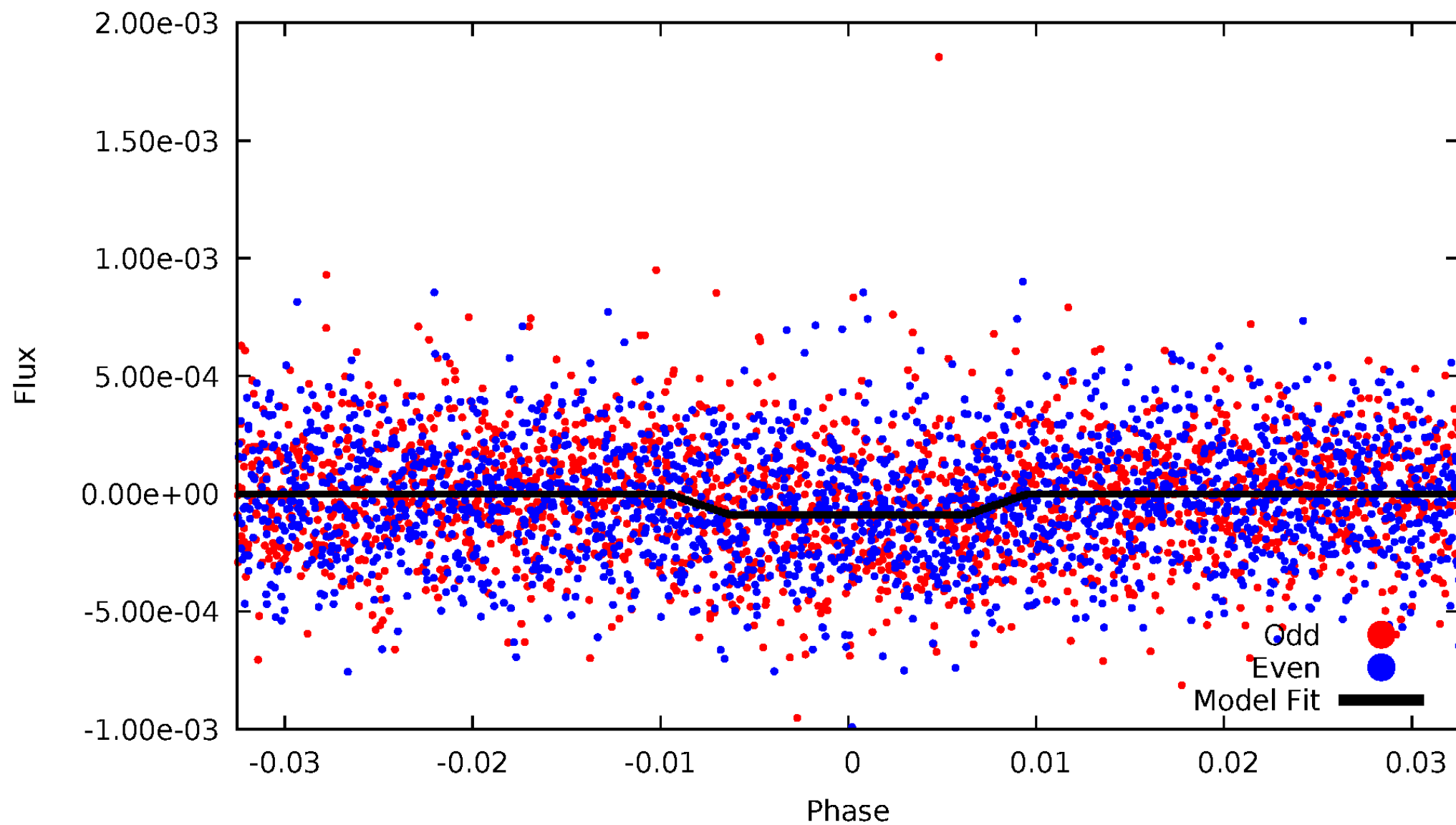
DV Odd/Even

TCE 007841925-02



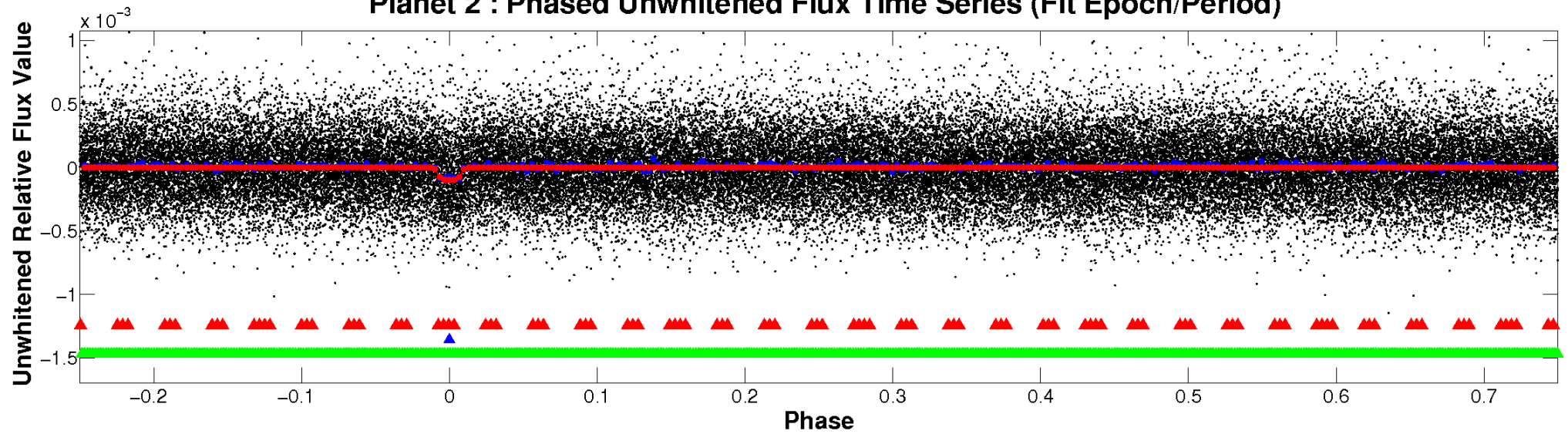
ALT Odd/Even

TCE 007841925-02

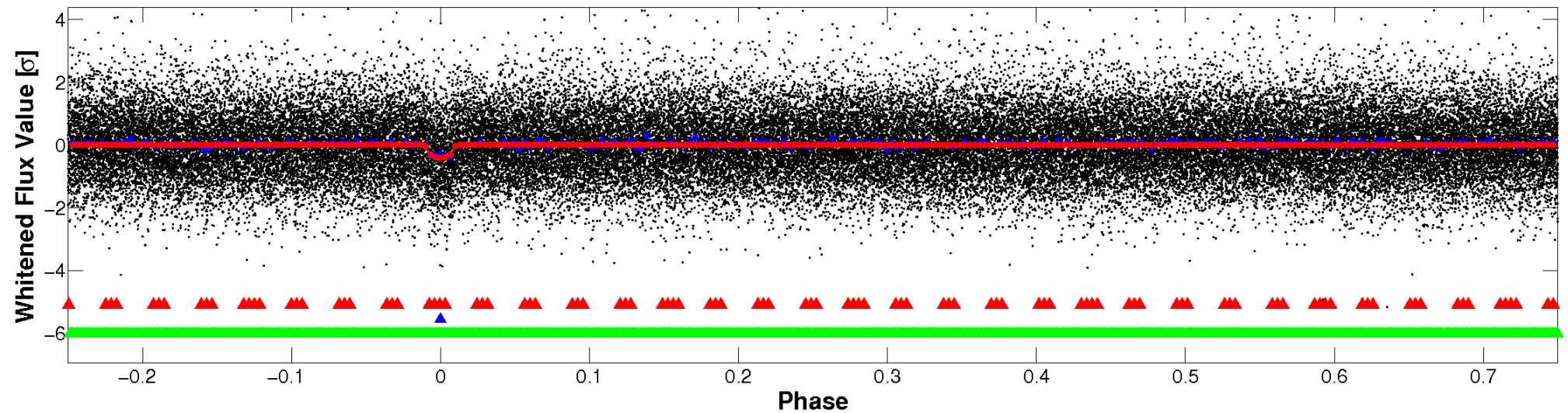


Non-Whitened Vs. Whitened Light Curve

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

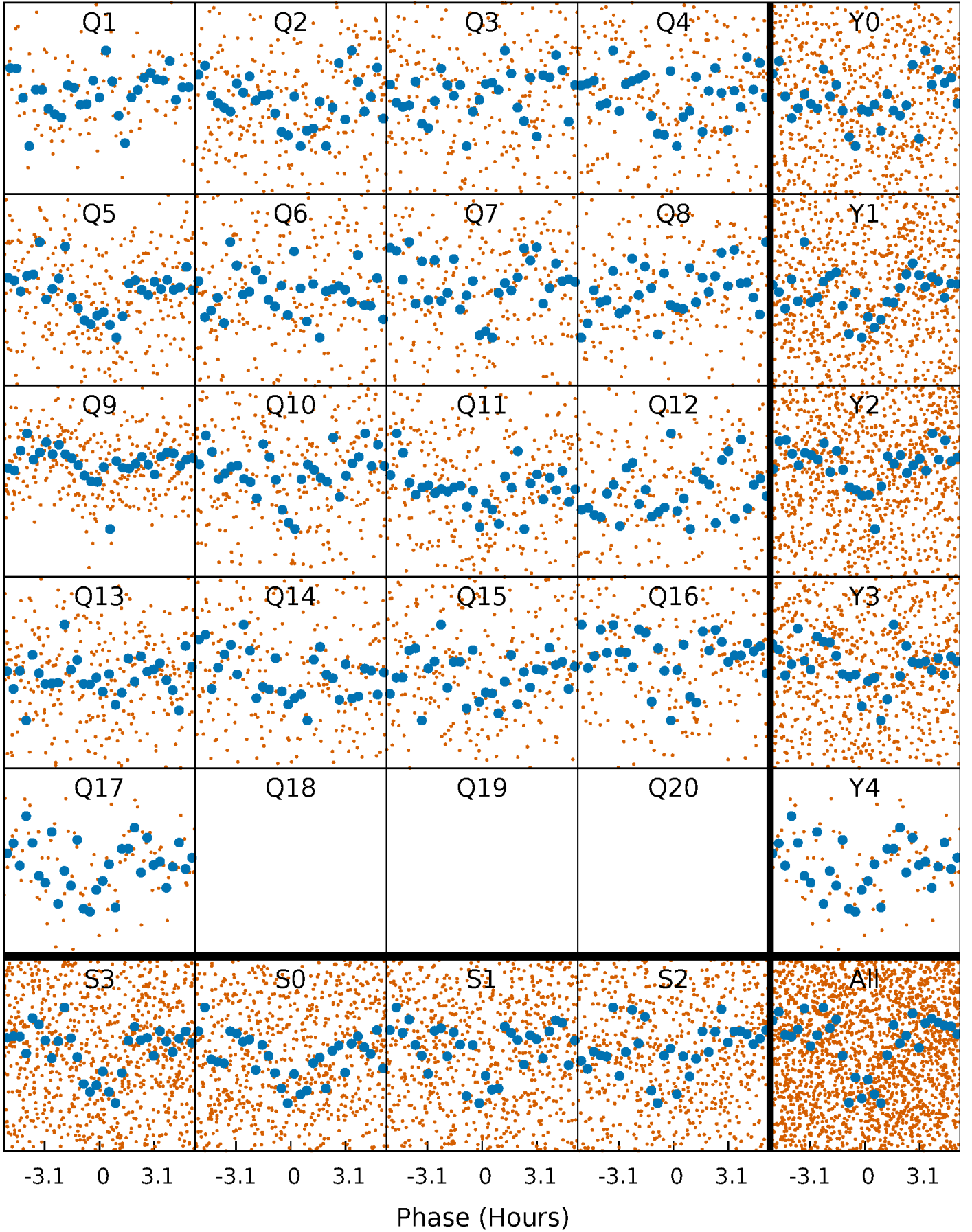


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



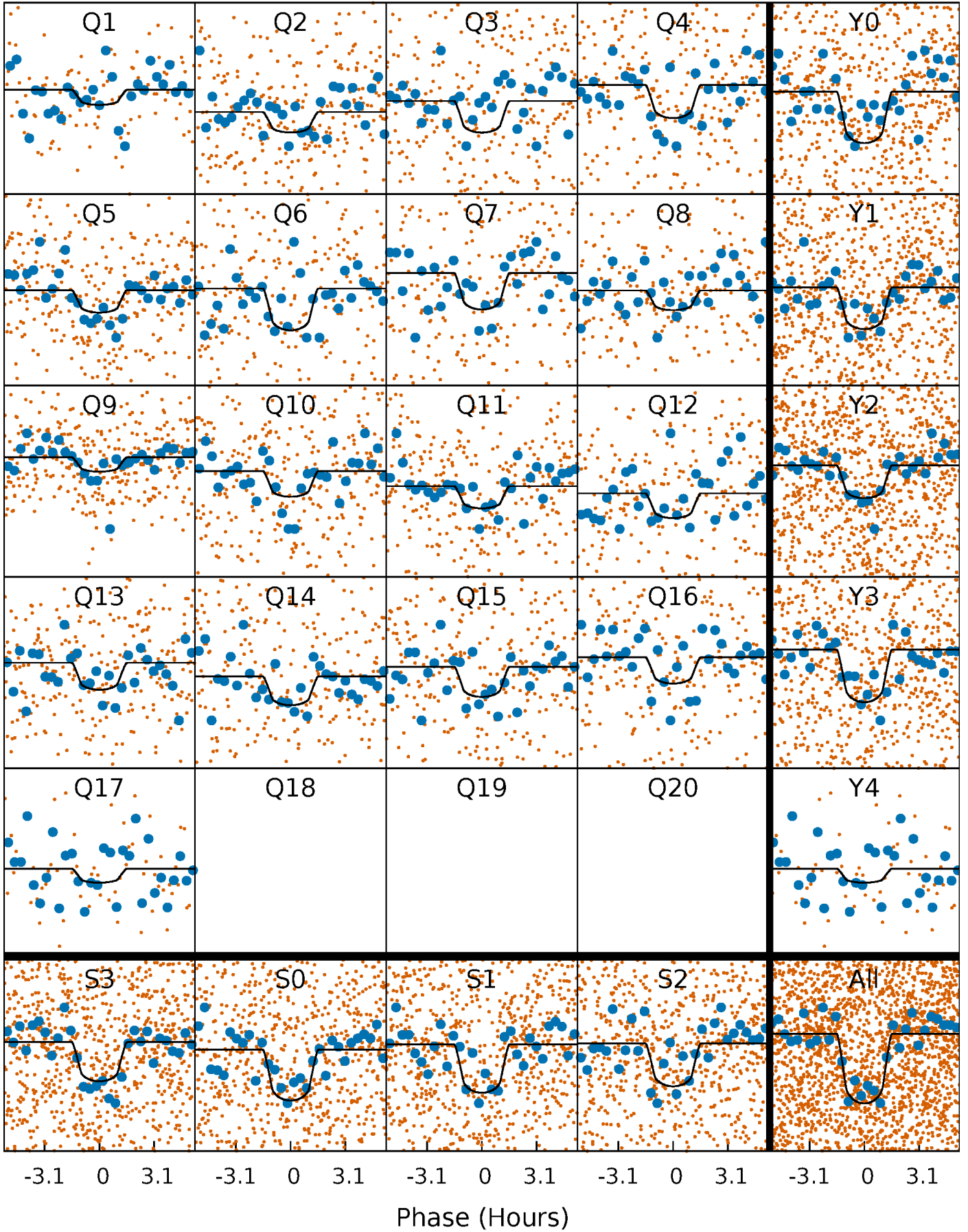
PDC Quarter-Phased Transit Curves

TCE 007841925-02 P= 6.209184 Days $T_0=136.879247$ (BKJD)



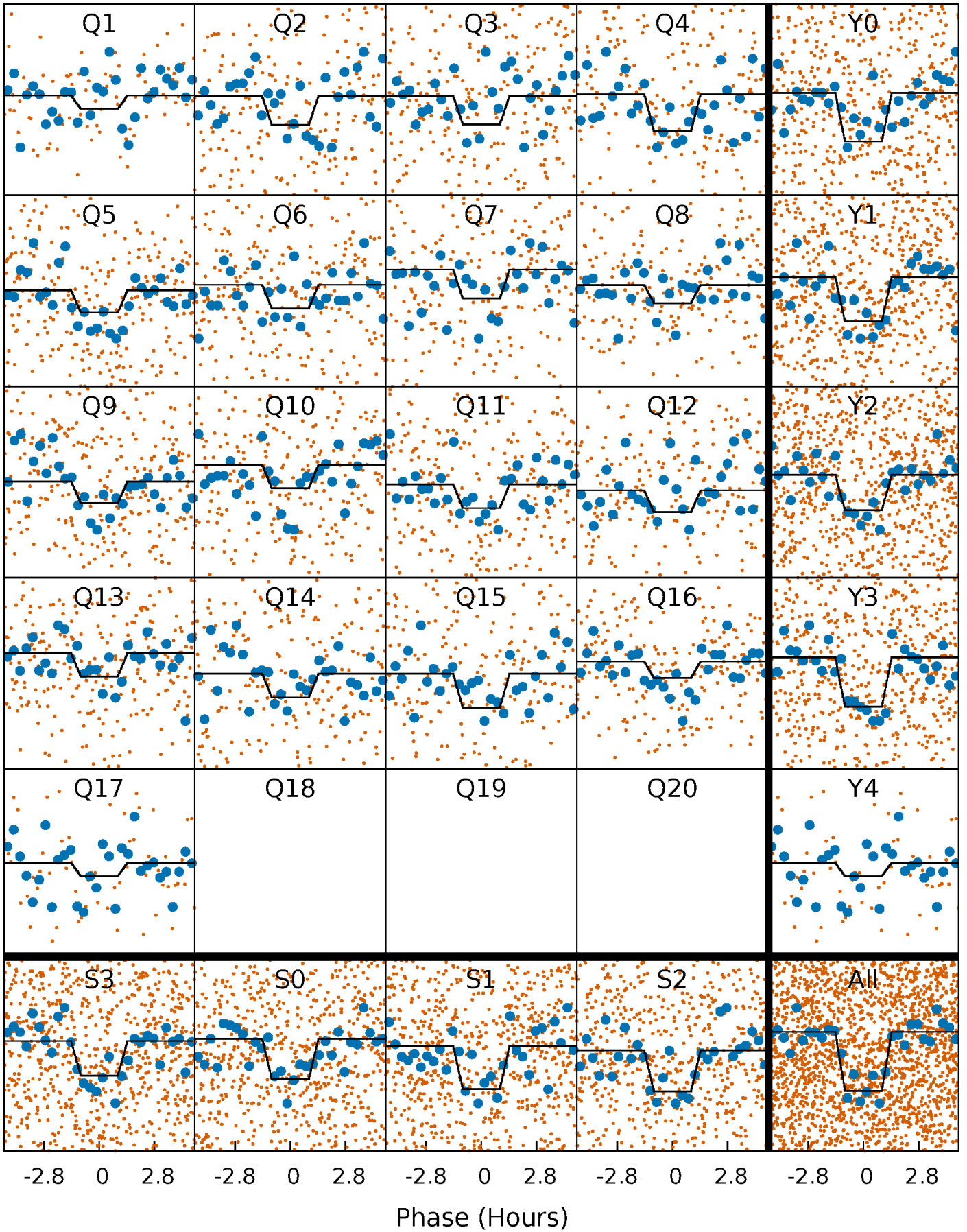
DV Quarter-Phased Transit Curves

TCE 007841925-02 P= 6.209184 Days $T_0=136.879247$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

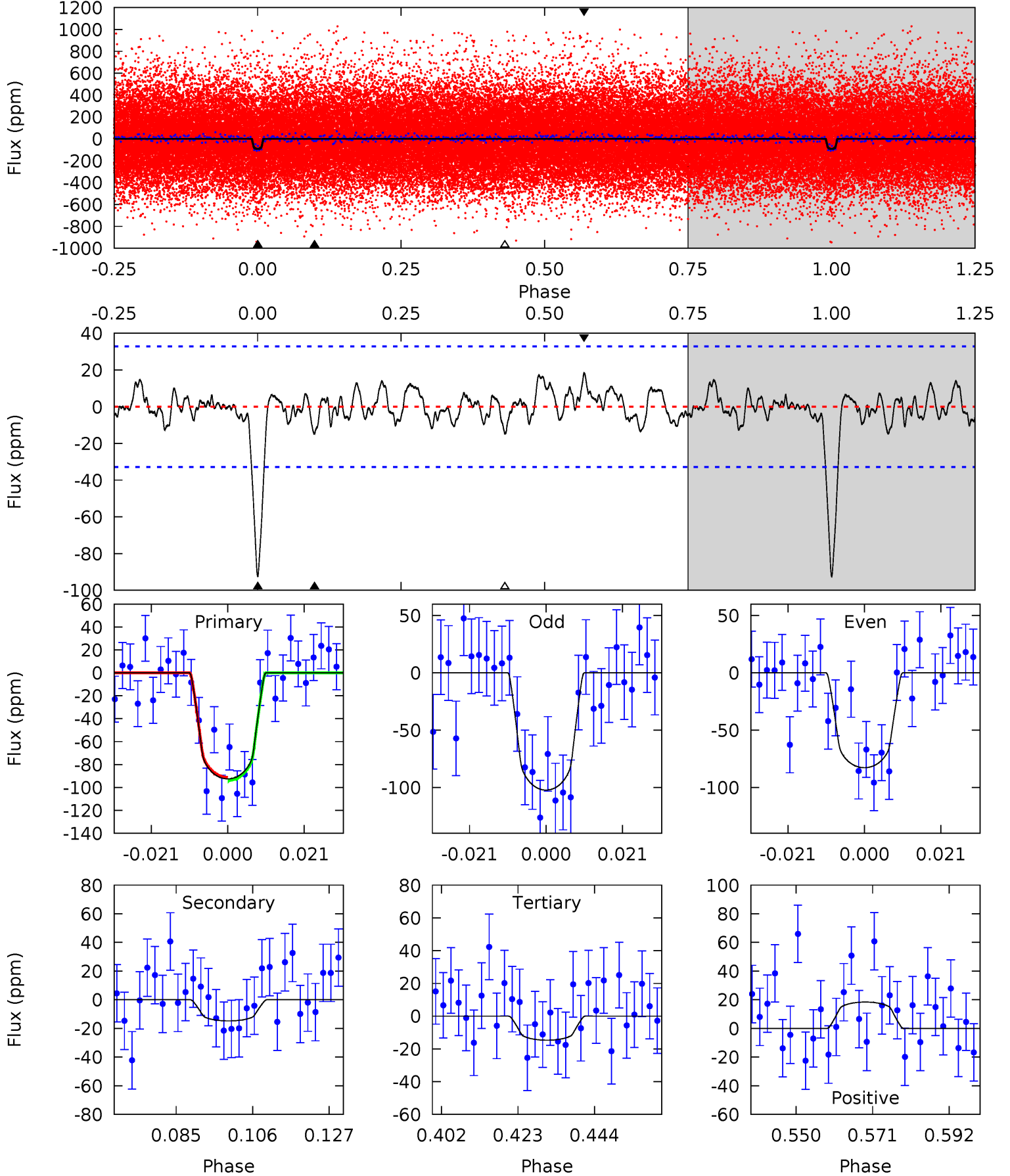
TCE 007841925-02 P= 6.209230 Days $T_0=136.873451$ (BKJD)



DV Model-Shift Uniqueness Test

007841925-02, P = 6.209184 Days, E = 130.670063 Days

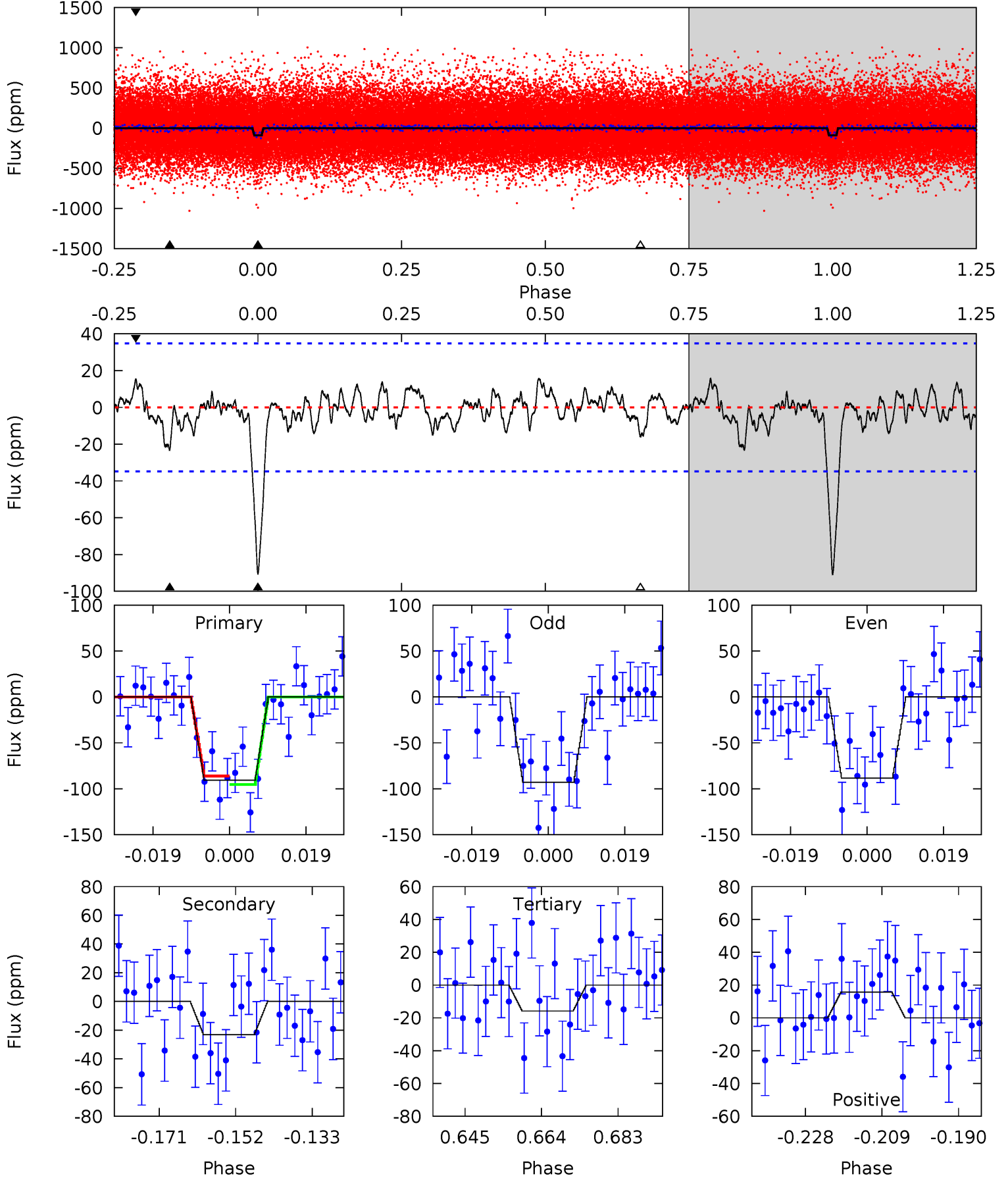
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.8	2.19	2.19	2.74	4.88	2.31	0.98	11.6	11.0	0.01	-0.54	1.46	1.00	0.17	0.20



Alt Model-Shift Uniqueness Test

007841925-02, P = 6.209230 Days, E = 130.664221 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.8	3.26	2.23	2.21	4.90	2.35	0.90	10.6	10.6	1.03	1.05	0.31	0.96	0.15	0.65



Stellar Parameters For KIC 007841925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5440^{+162}_{-162}	$4.438^{+0.144}_{-0.192}$	$-0.240^{+0.350}_{-0.300}$	$0.885^{+0.193}_{-0.129}$	$0.782^{+0.116}_{-0.062}$	$1.590^{+0.978}_{-0.707}$
	+3%/-3%	+3%/-4%	+146%/-125%	+22%/-15%	+15%/-8%	+62%/-44%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007841925-02 / KOI 1499.03

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-15 ± 7	$1.16^{+0.81}_{-0.67}$	1286^{+84}_{-77}	3524^{+1262}_{-629}	22^{+101}_{-16}
Alt.	-23 ± 7	$1.02^{+0.82}_{-0.63}$	1286^{+94}_{-77}	3943^{+1941}_{-651}	43^{+253}_{-29}

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

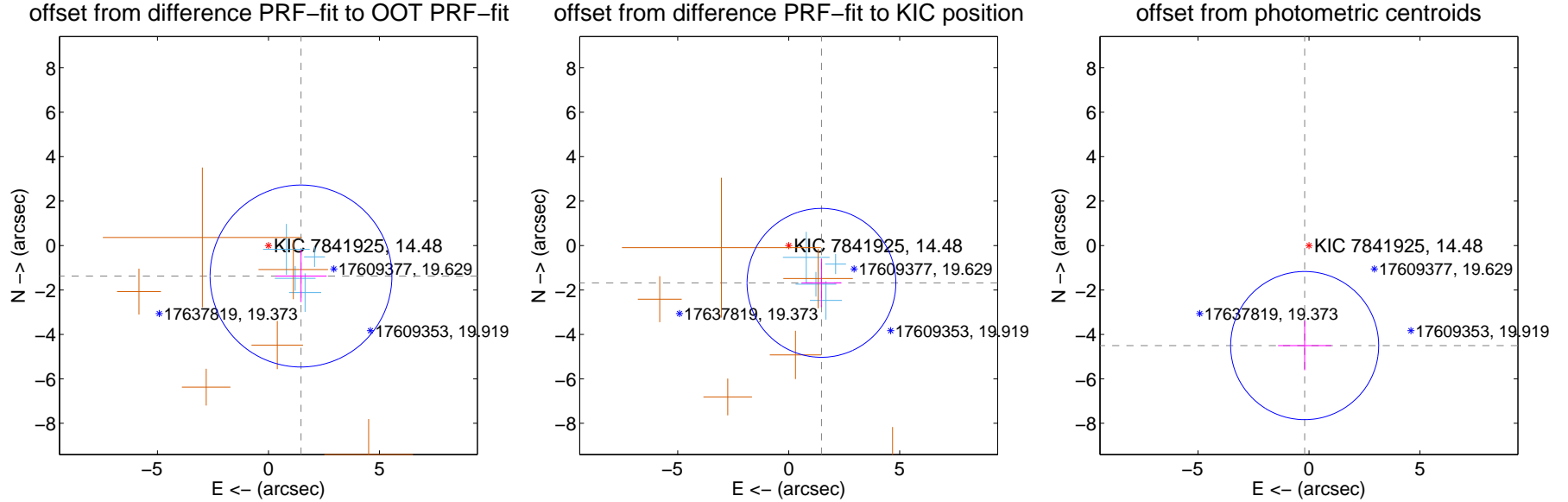
DV Centroid Data

Supplemental centroid analysis for 007841925-02. Kepler magnitude: 14.48. Transit SNR 11.36

There are 4 quarters with good PRF difference image offsets

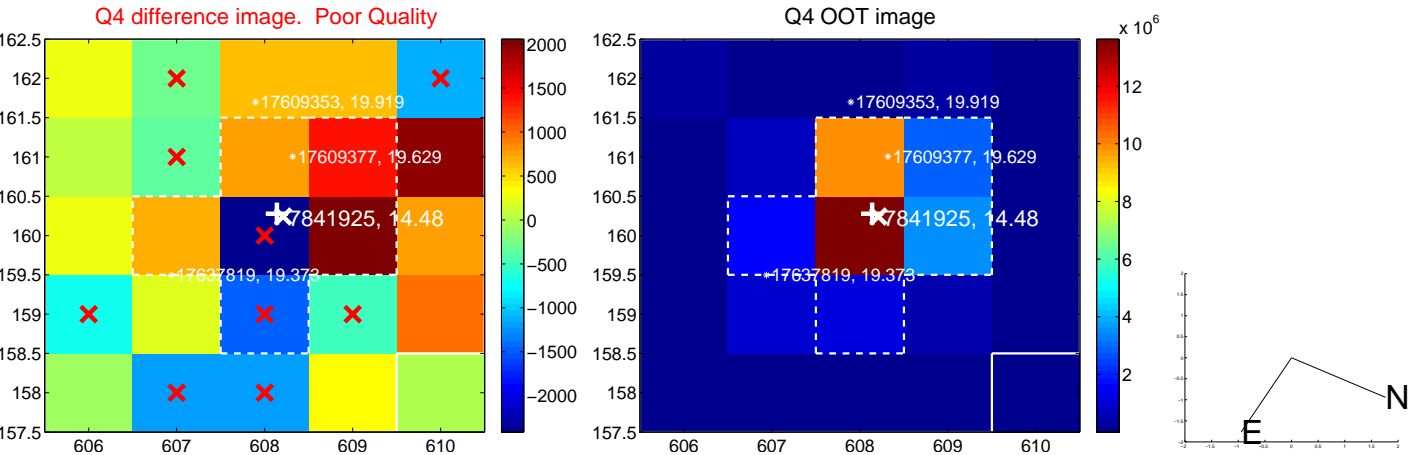
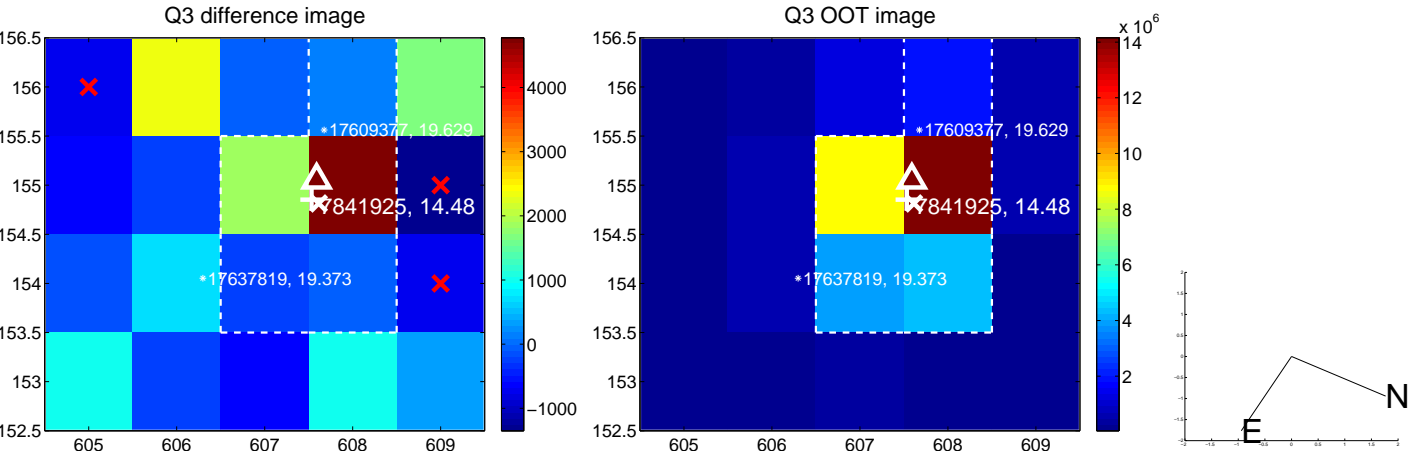
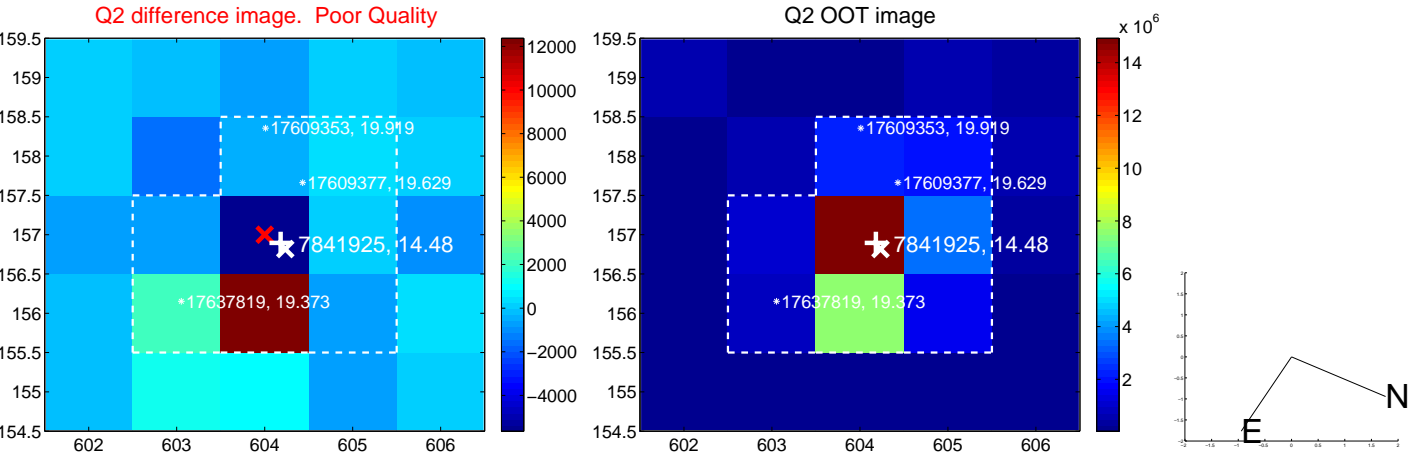
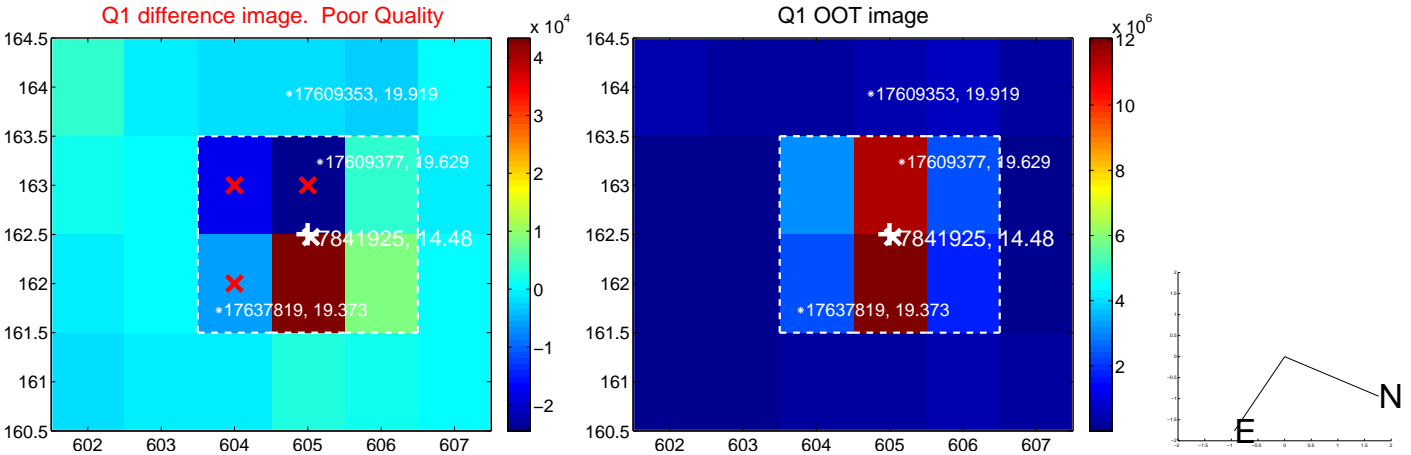
The direct PRF centroid is offset from the target star catalog position by about 0.45 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.008 ± 1.365	1.47	-1.466 ± 1.154	-1.373 ± 1.174
PRF-fit source offset from KIC position	2.235 ± 1.117	2.00	-1.475 ± 0.903	-1.680 ± 1.093
photometric centroid source offset	4.51 ± 1.11	4.06	0.19 ± 1.20	-4.50 ± 1.11

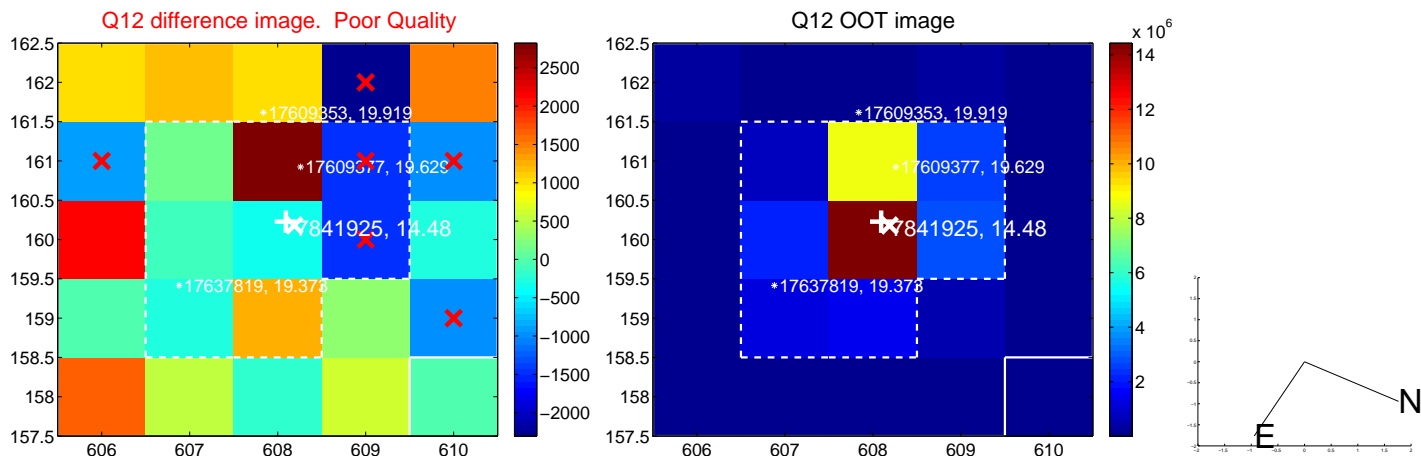
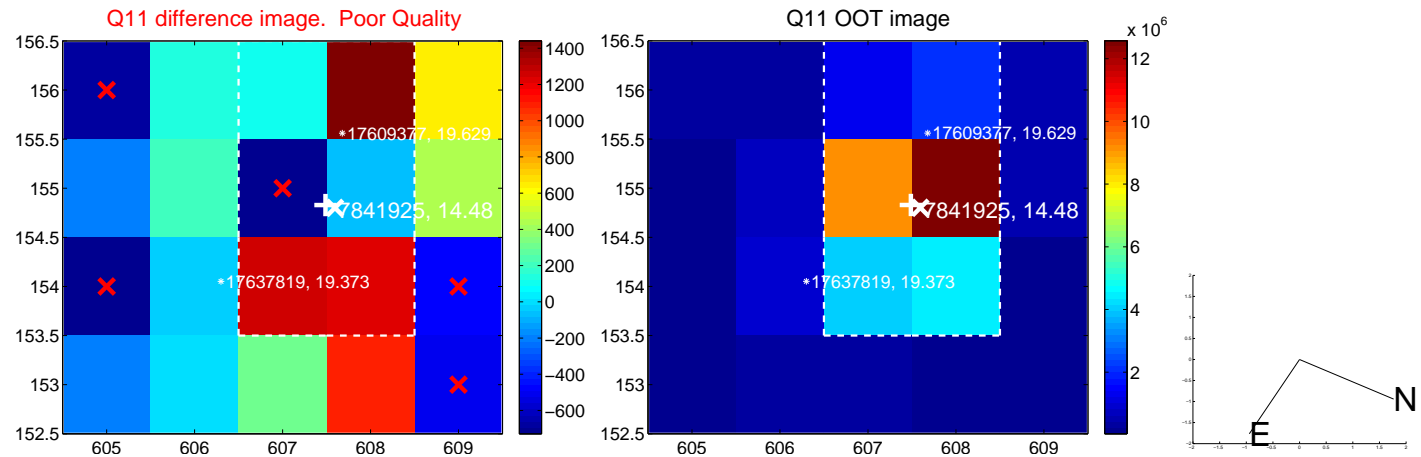
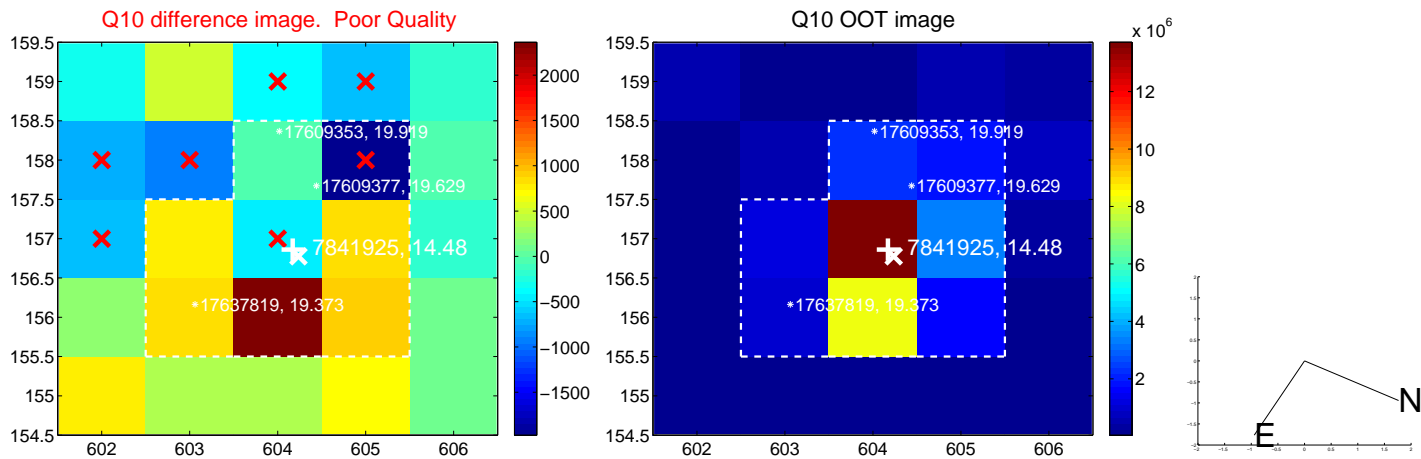
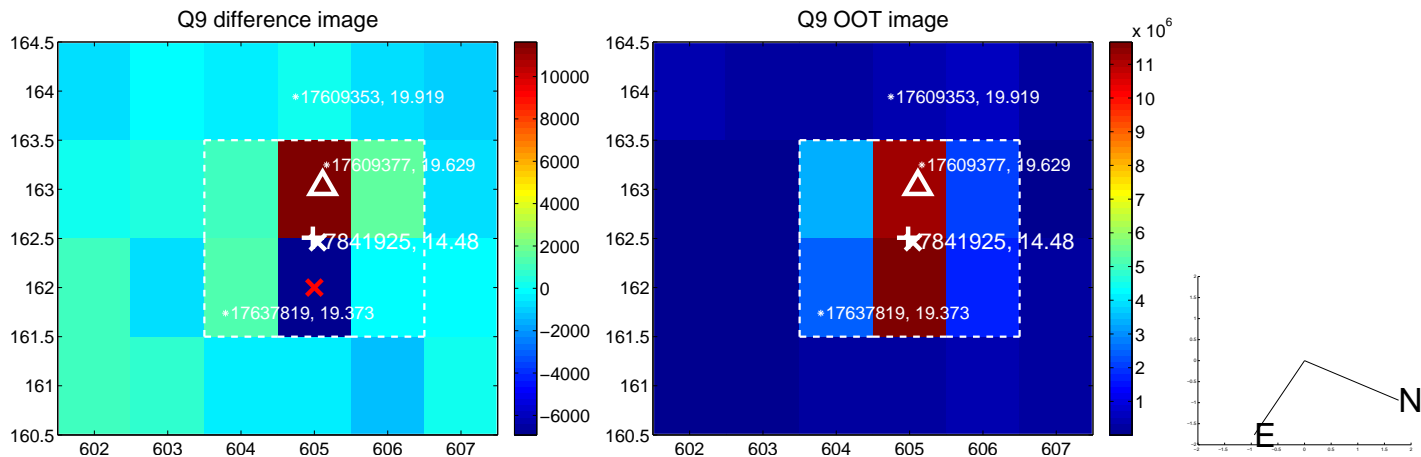


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

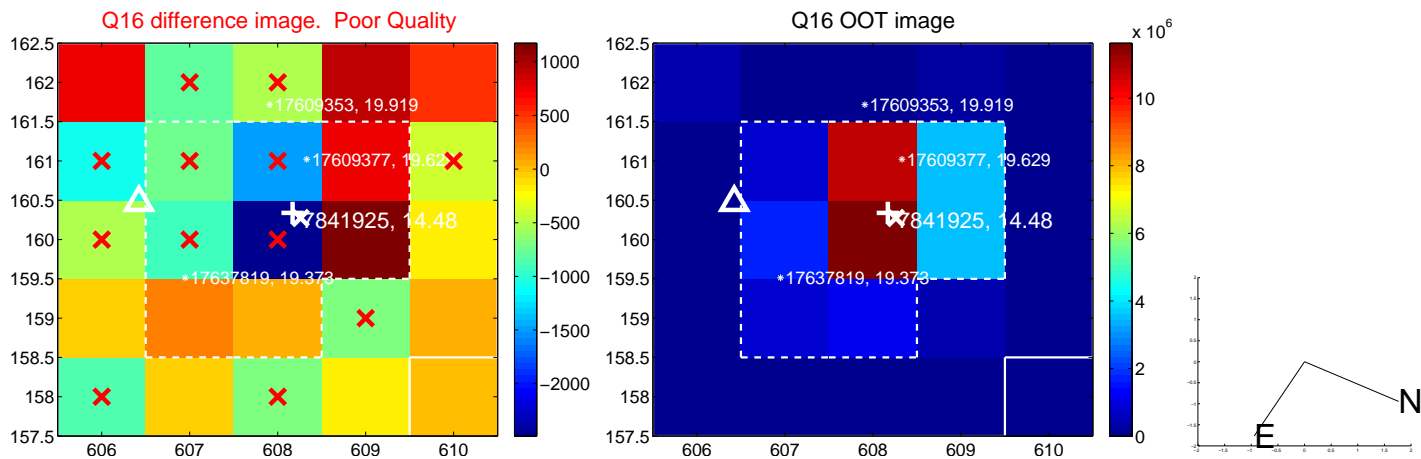
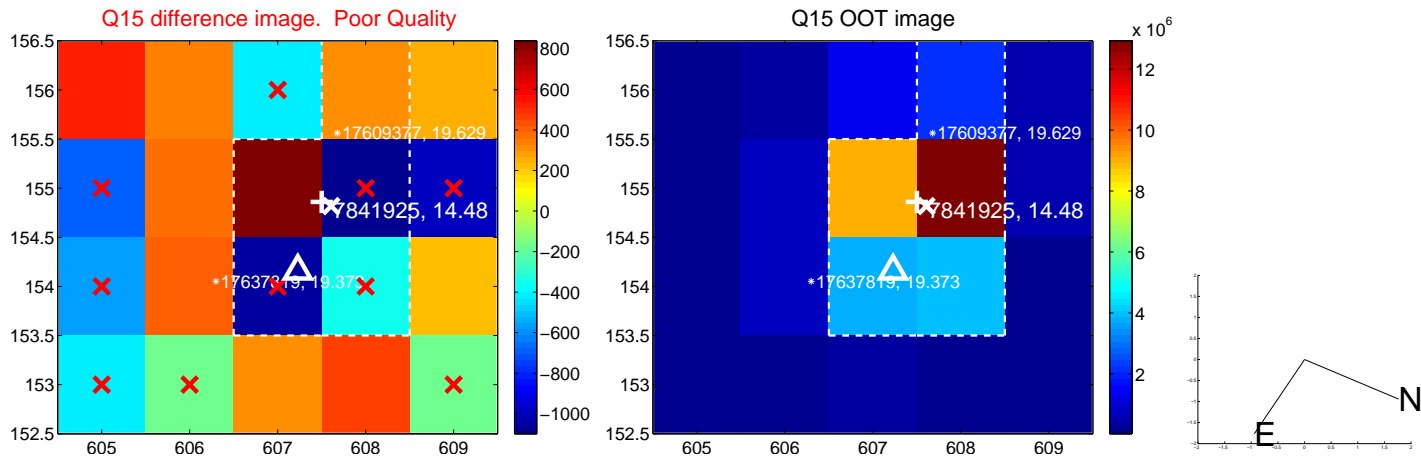
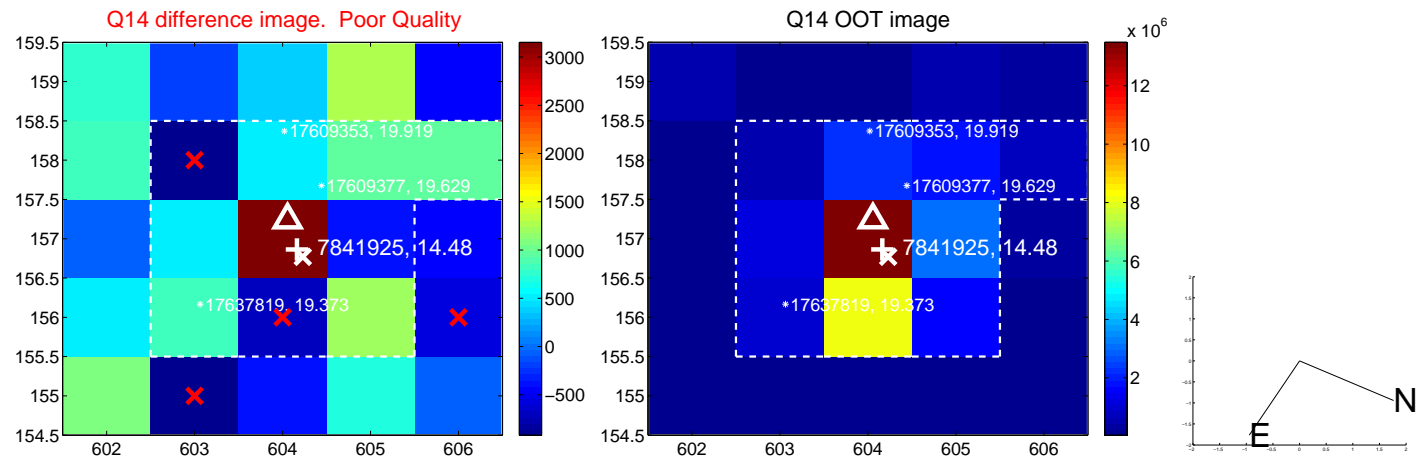
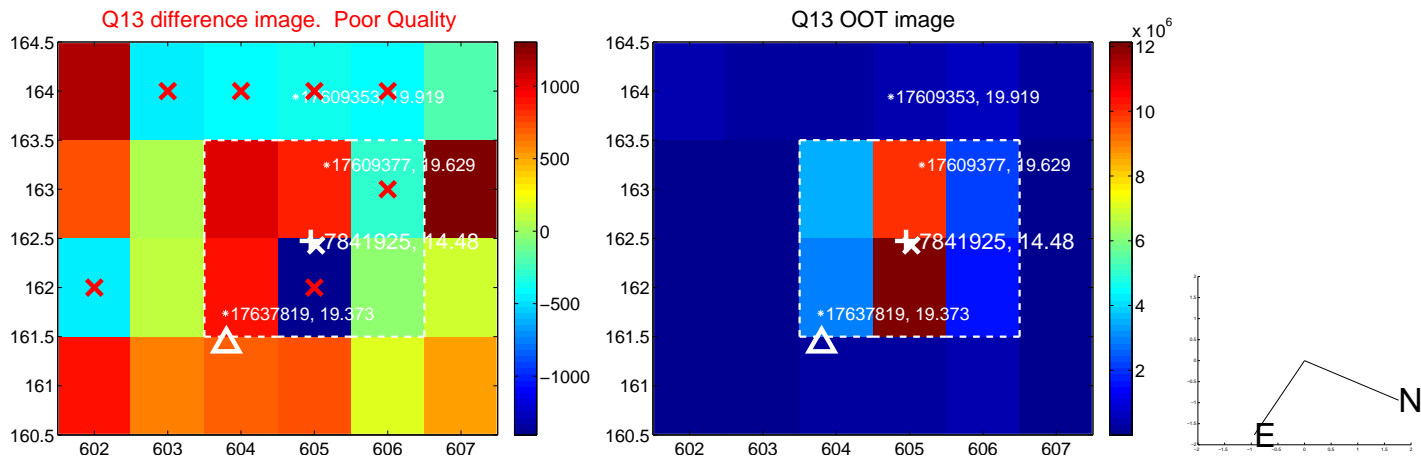
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



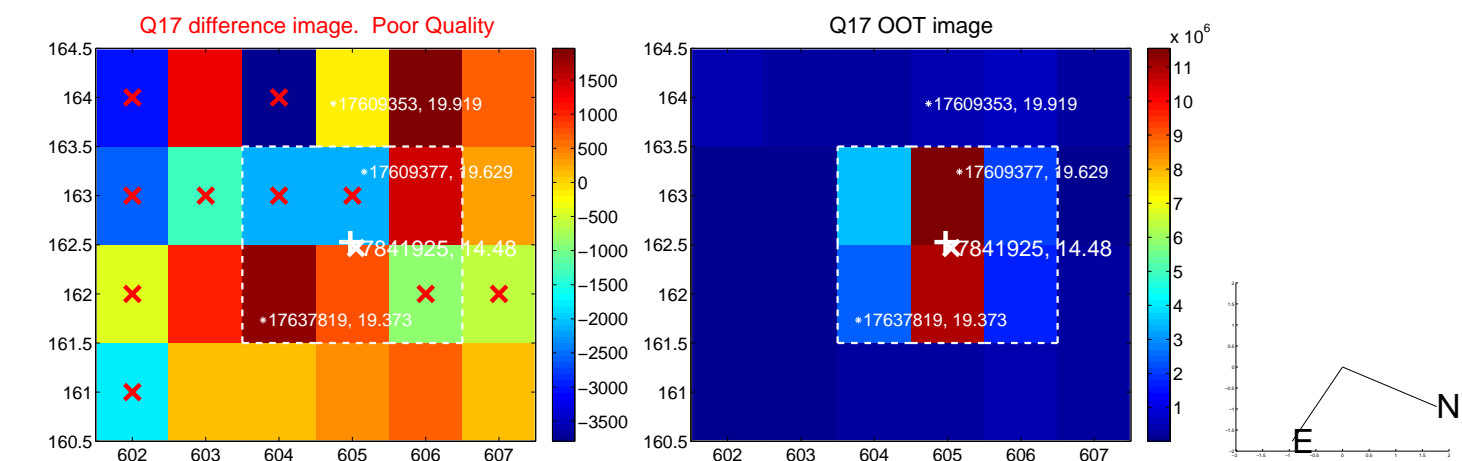
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



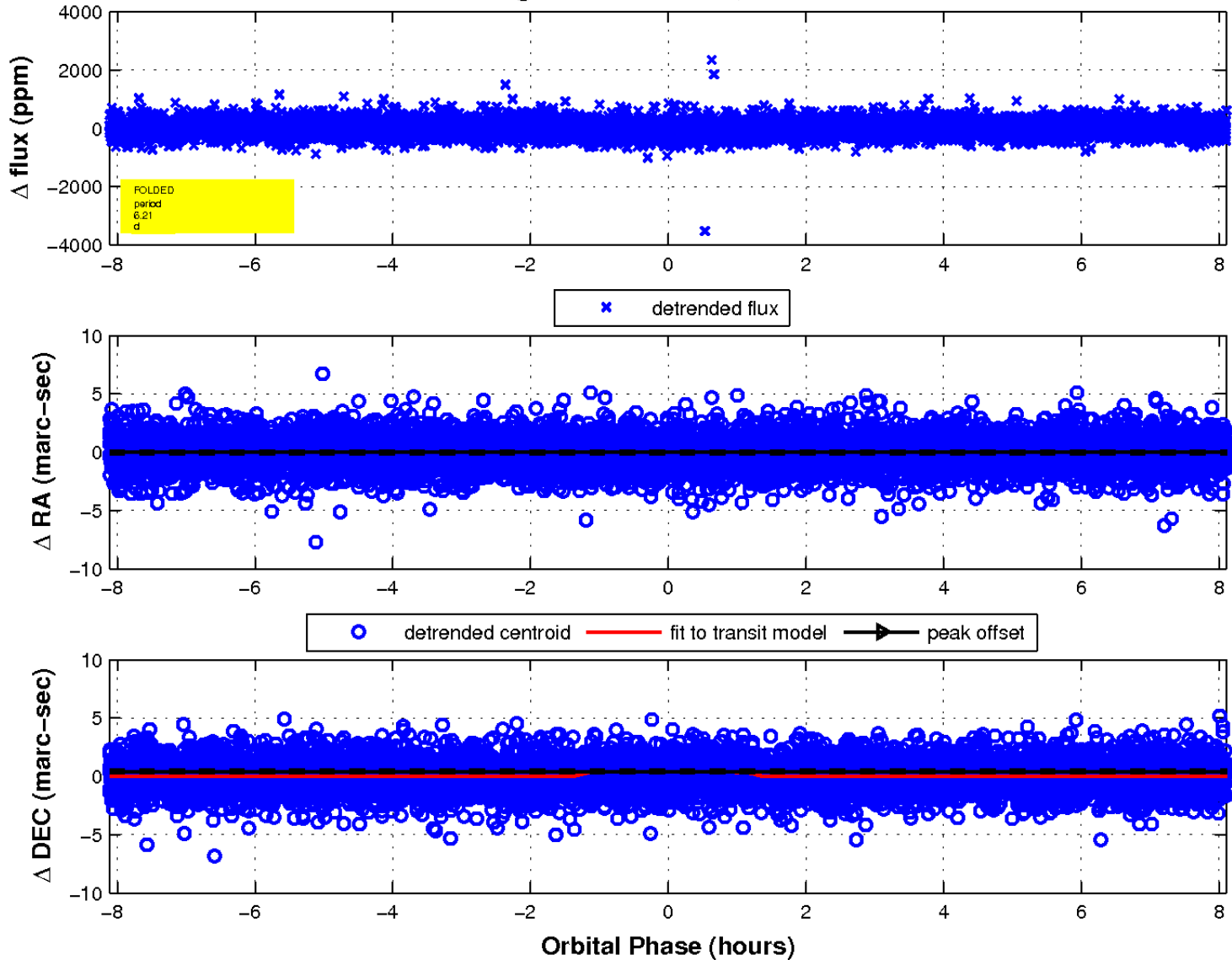
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

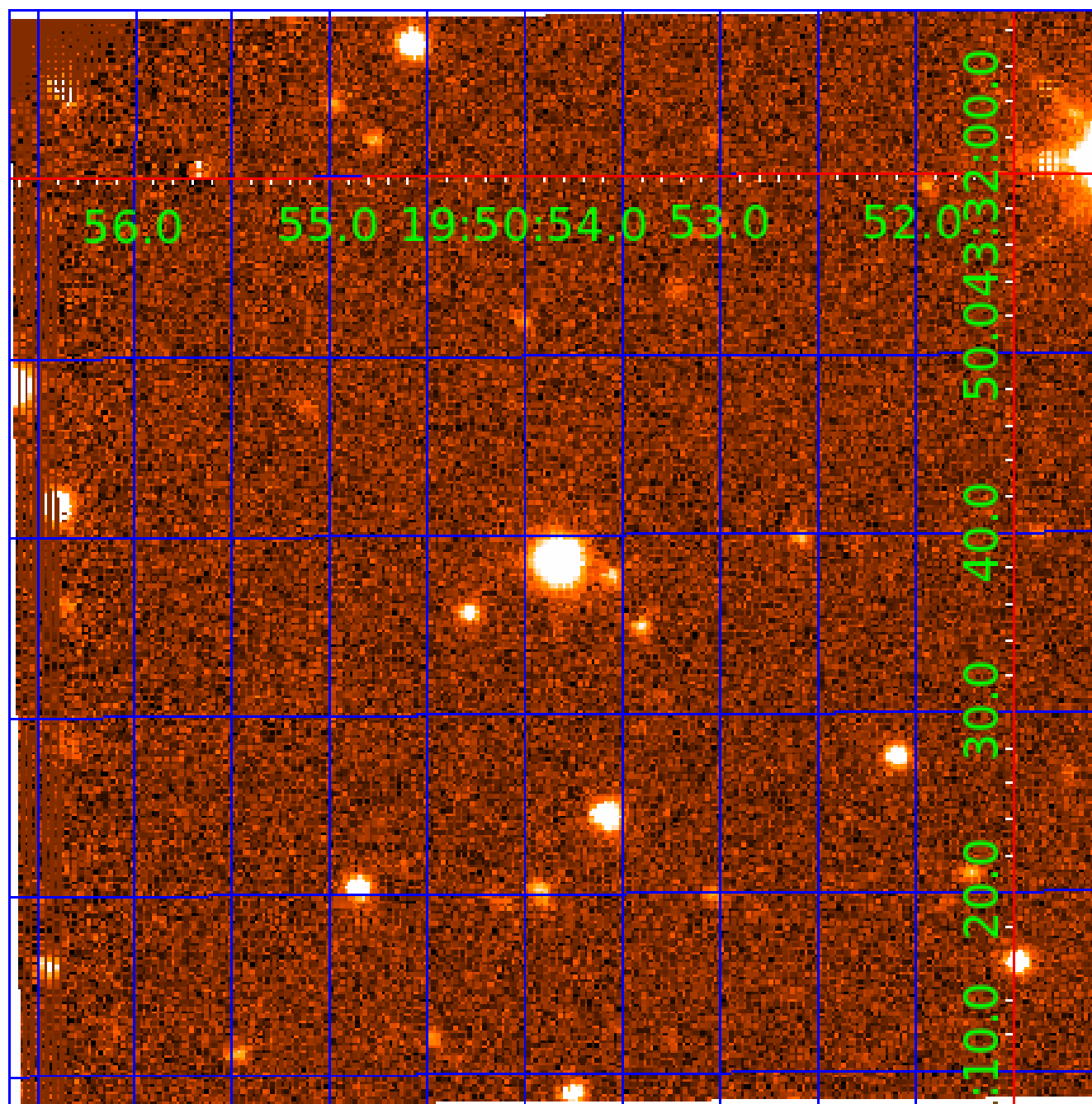


fluxWeightedCentroids, Planet 2 of 3



UKIRT Image

Declination



KIC 007841925

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})
007841925-01	OBS	1499.01	14.164006	140.589213	710.4	4.440	58.5	64.6	0.89	5440	2.62	55.08
007841925-02	OBS	1499.03	6.209184	136.879247	101.1	2.706	11.0	11.4	0.89	5440	1.06	165.40
007841925-03	OBS	1499.02	0.840591	131.740581	44.2	1.264	8.4	9.3	0.89	5440	0.58	2379.43

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007841925-01	OBS	PC	1.00	0	0	0	0	CENT_KIC_POS
007841925-02	OBS	PC	0.46	0	0	0	0	CENT_KIC_POS
007841925-03	OBS	PC	0.94	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 007841925-03

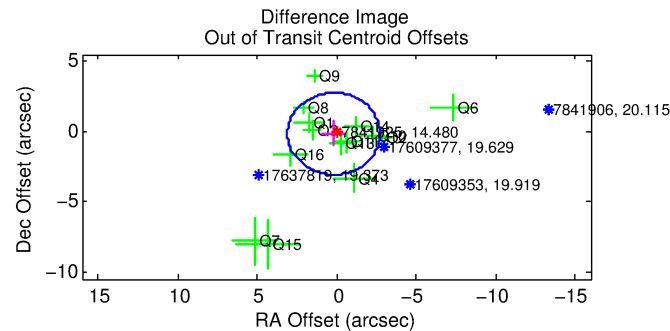
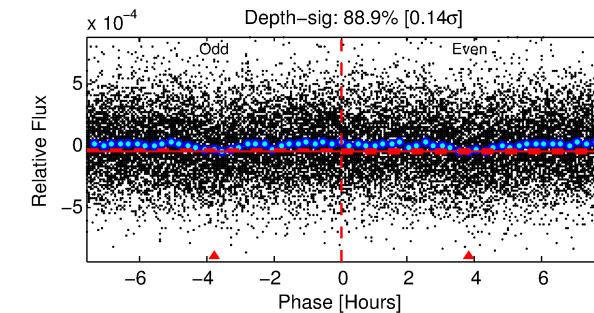
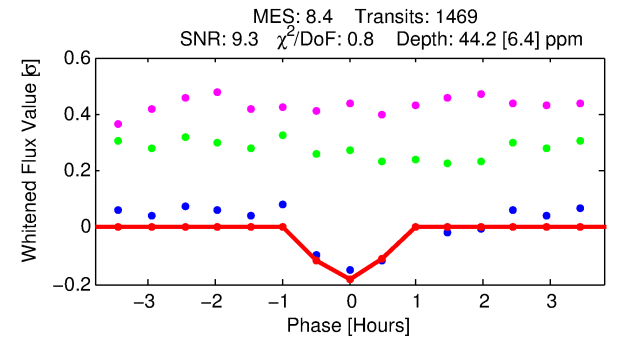
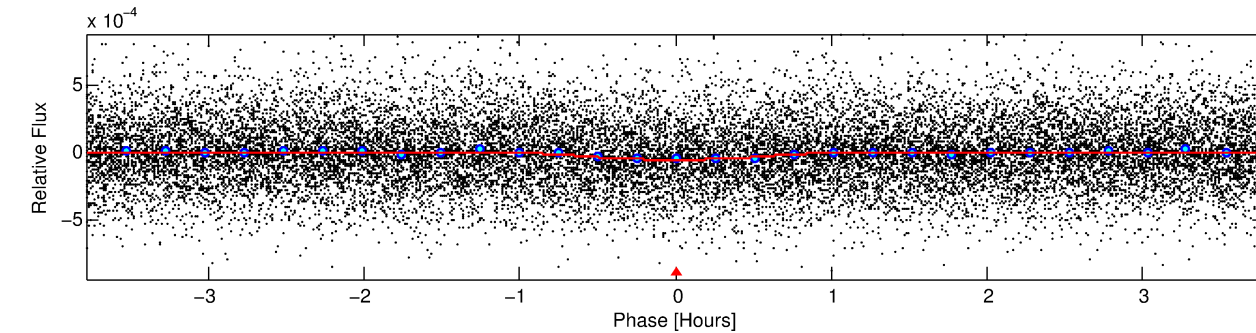
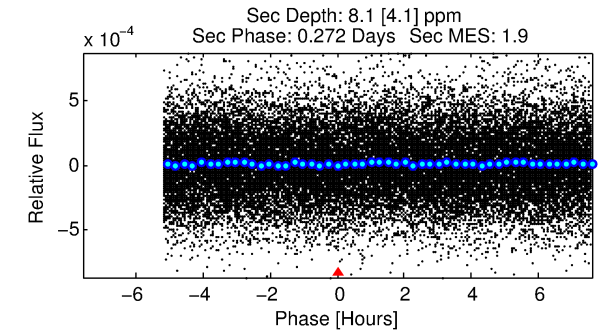
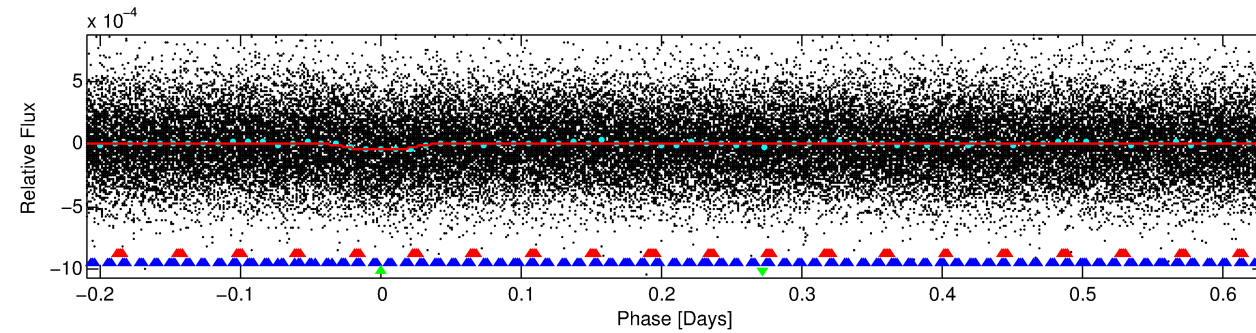
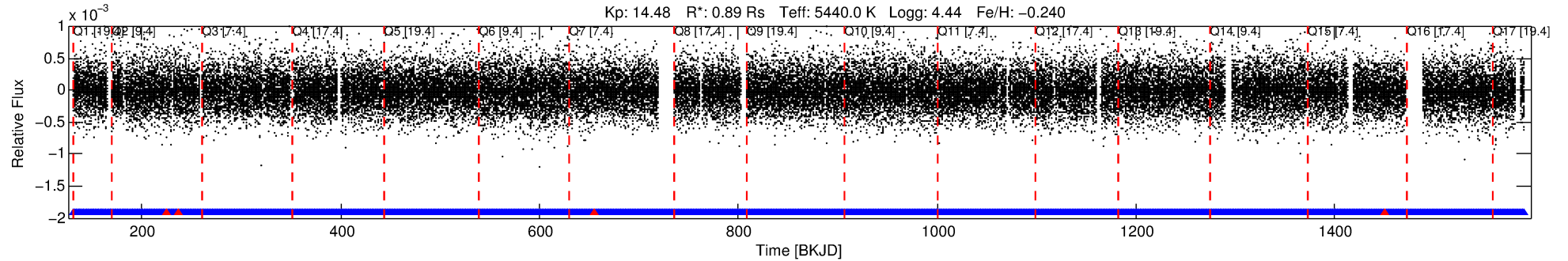
No Significant Match Found

DV One-Page Summary

KIC: 7841925 Candidate: 3 of 3 Period: 0.841 d

KOI: K01499.02 Corr: 0.954

Kp: 14.48 R*: 0.89 Rs Teff: 5440.0 K Logg: 4.44 Fe/H: -0.240



DV Fit Results:

Period = 0.84059 [0.00001] d
Epoch = 131.7406 [0.0023] BKJD
Rp/R* = 0.0060 [0.0159]
a/R* = 5.11 [53.77]
b = 0.11 [102.08]
Seff = 2379.43 [831.75]
Teff = 1781 [156] K
Rp = 0.58 [1.54] Re
a = 0.0161 [0.0033] AU
Ag = 3.37 [17.86] [0.13σ]
Teffp = 3731 [4933] K [0.40σ]

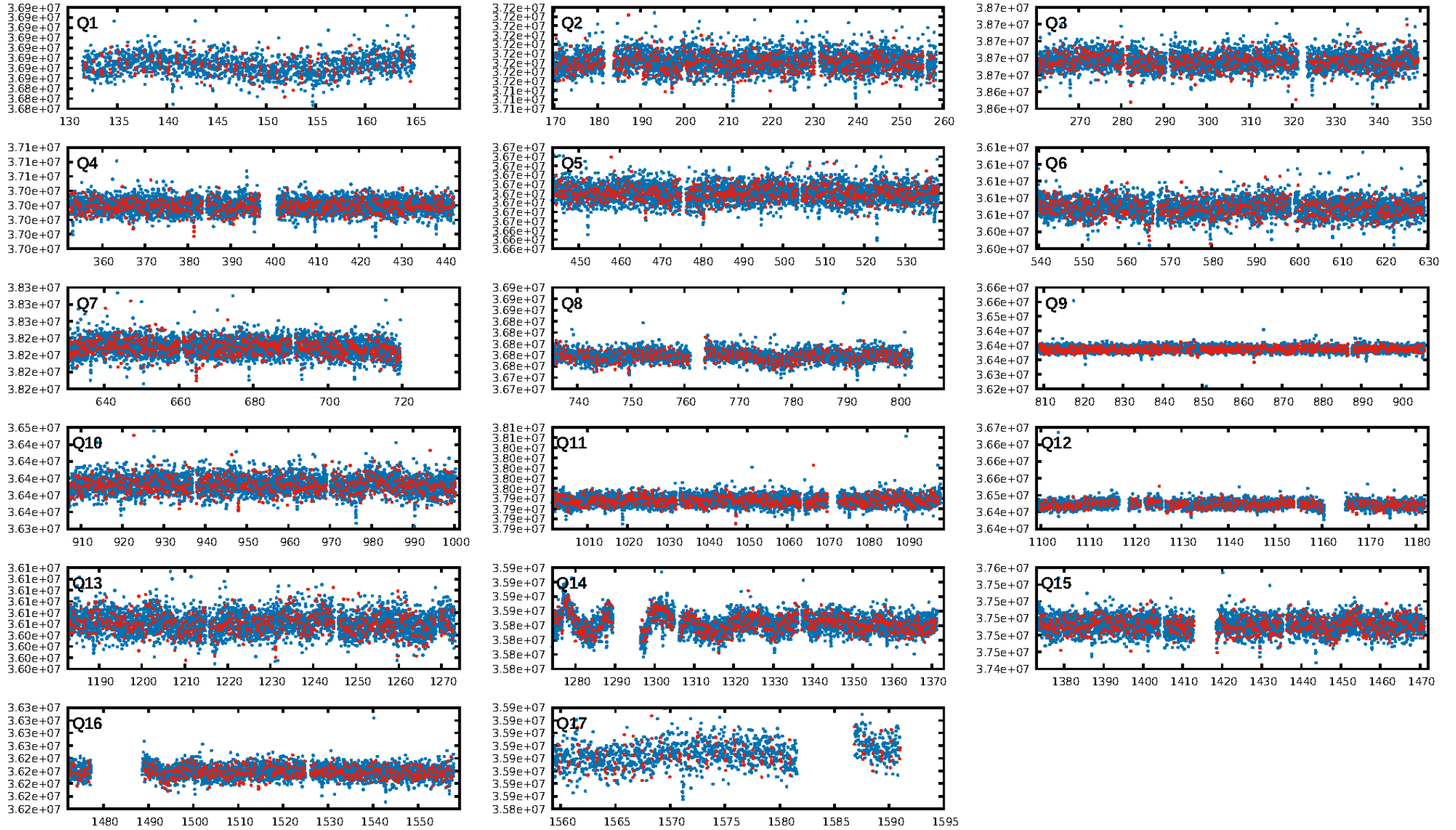
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [43.14σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 6.02e-19
RollingBand-fgt: 1.00 [1396/1400]
GhostDiagnostic-chr: 2.978
Centroid-sig: 88.2%
Centroid-so: 0.416 arcsec [0.28σ]
OotOffset-rm: 0.229 arcsec [0.24σ]
KicOffset-rm: 0.511 arcsec [0.52σ]
OotOffset-st: 4/4/3/3 [14]
KicOffset-st: 4/4/3/3 [14]
DiffImageQuality-fgm: 0.64 [9/14]
DiffImageOverlap-fno: 1.00 [17/17]

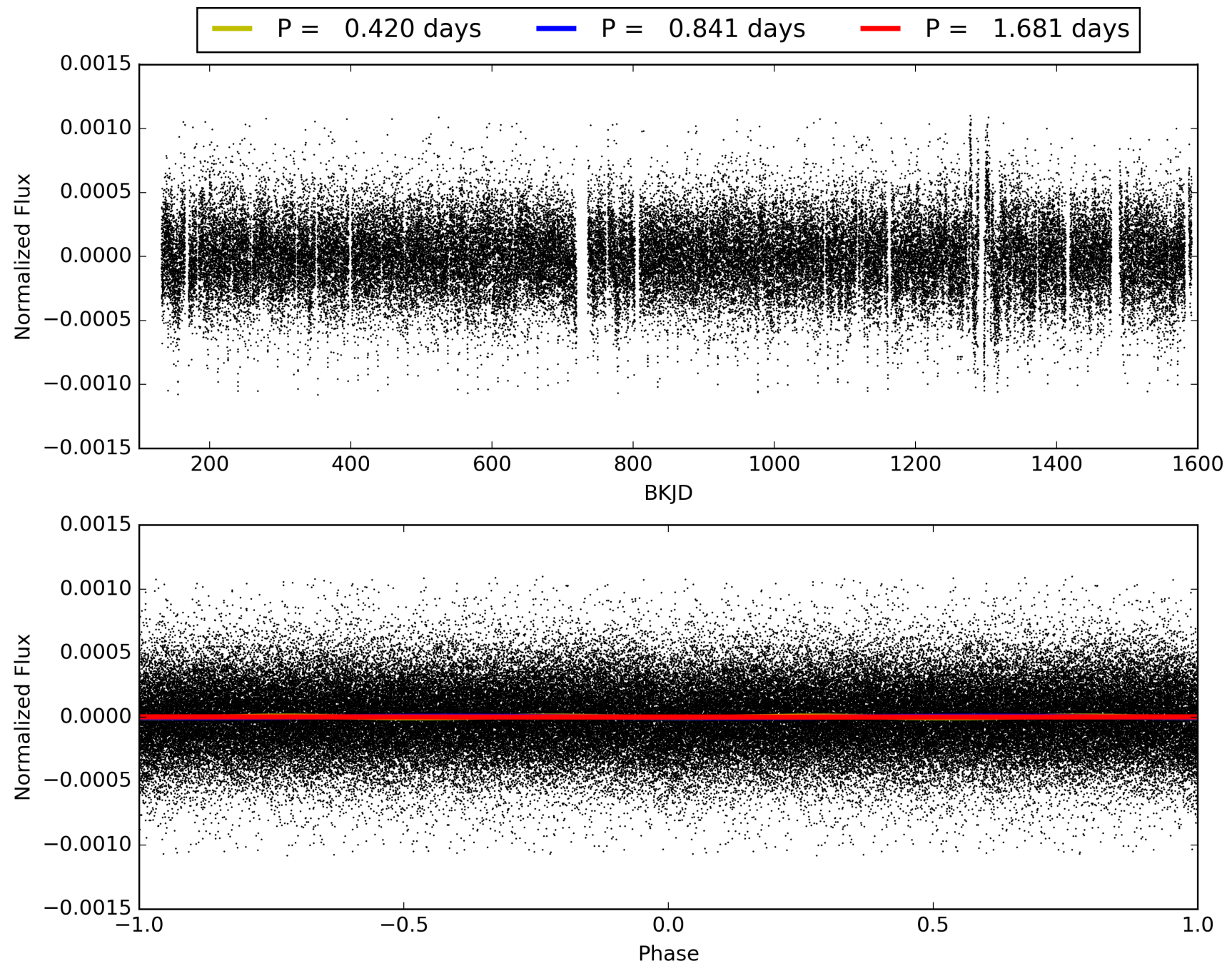
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 07:39:47 Z

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

TCE 007841925-03, PDC Light Curves

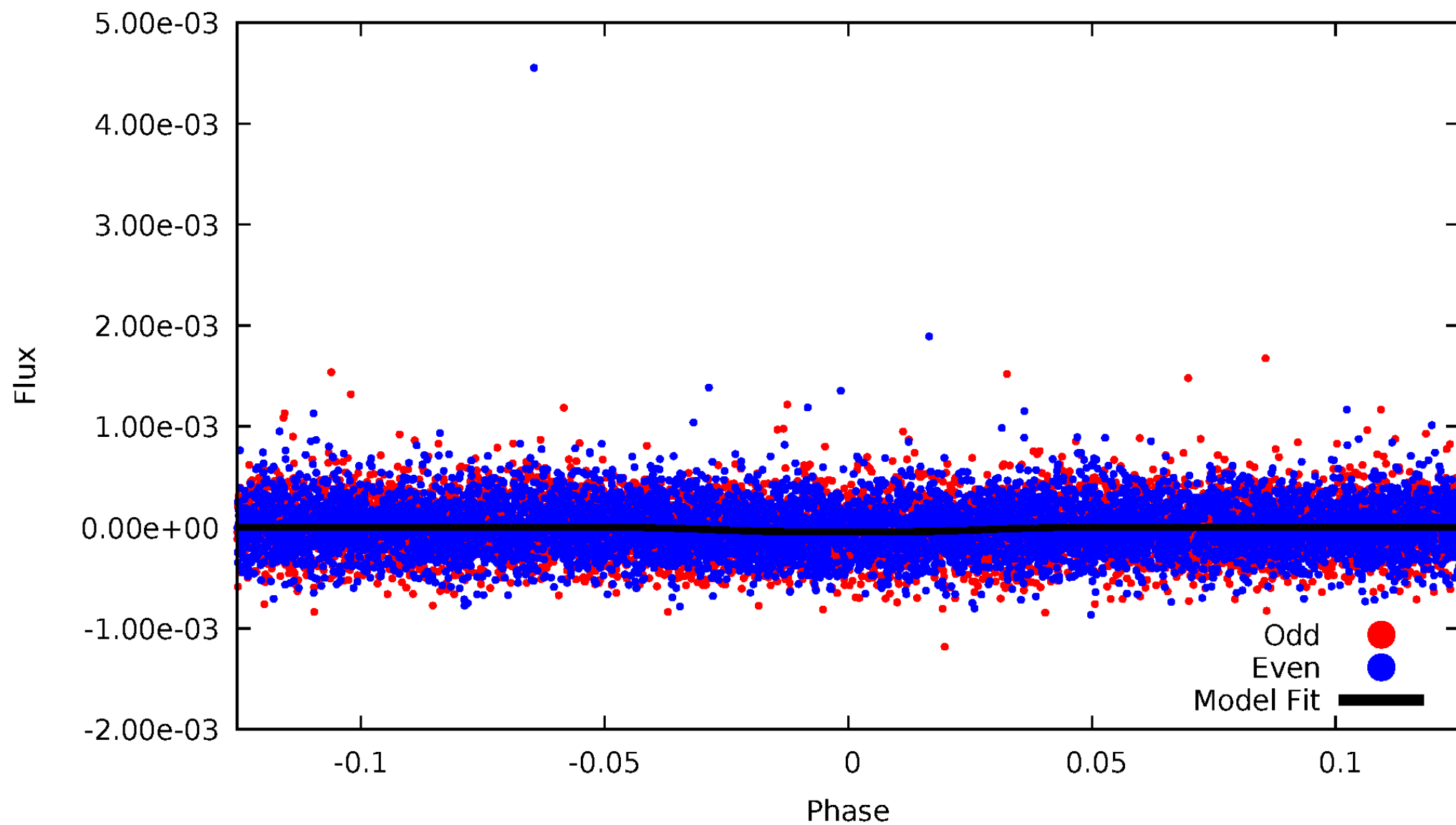


TCE 007841925-03



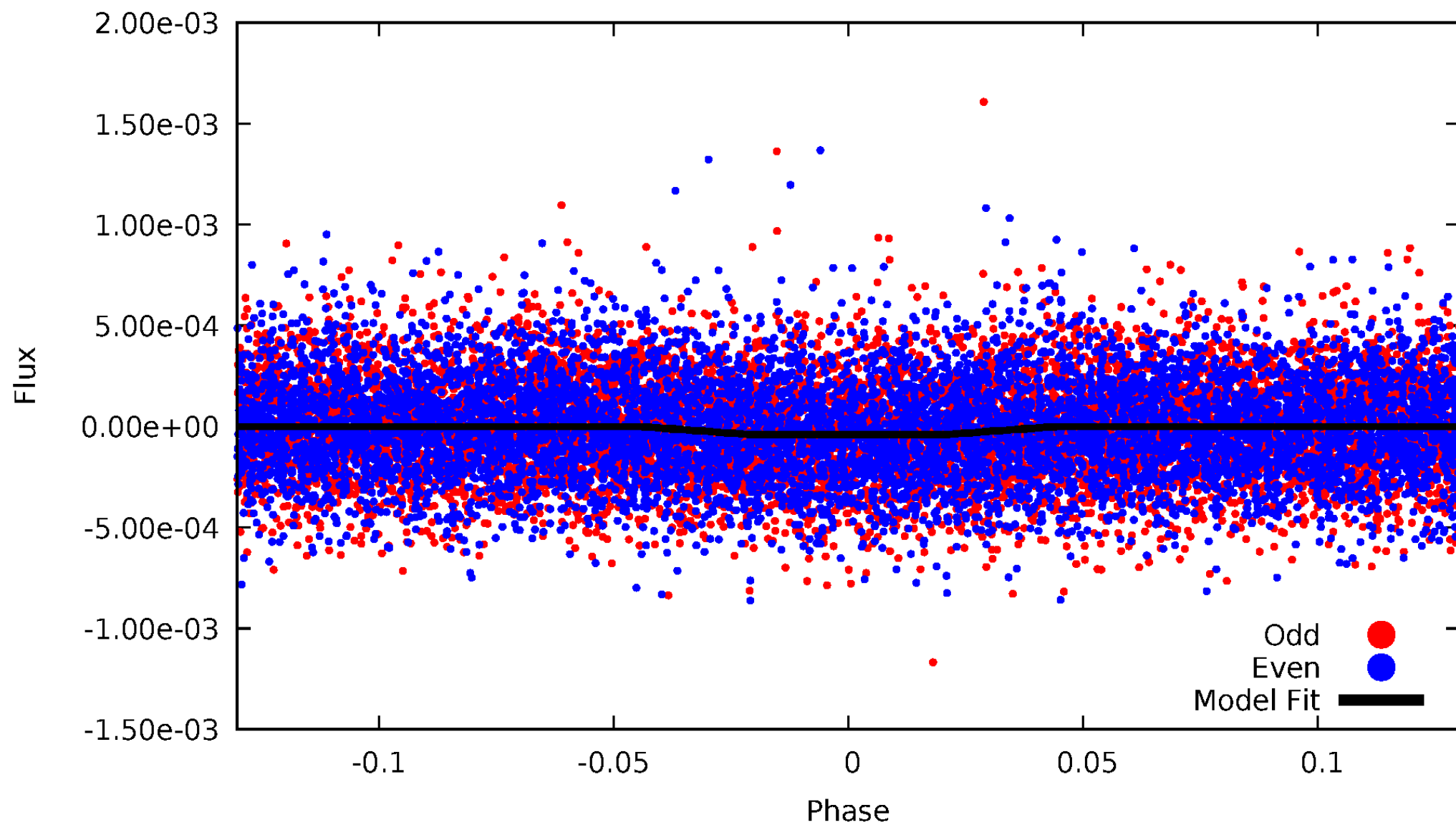
DV Odd/Even

TCE 007841925-03

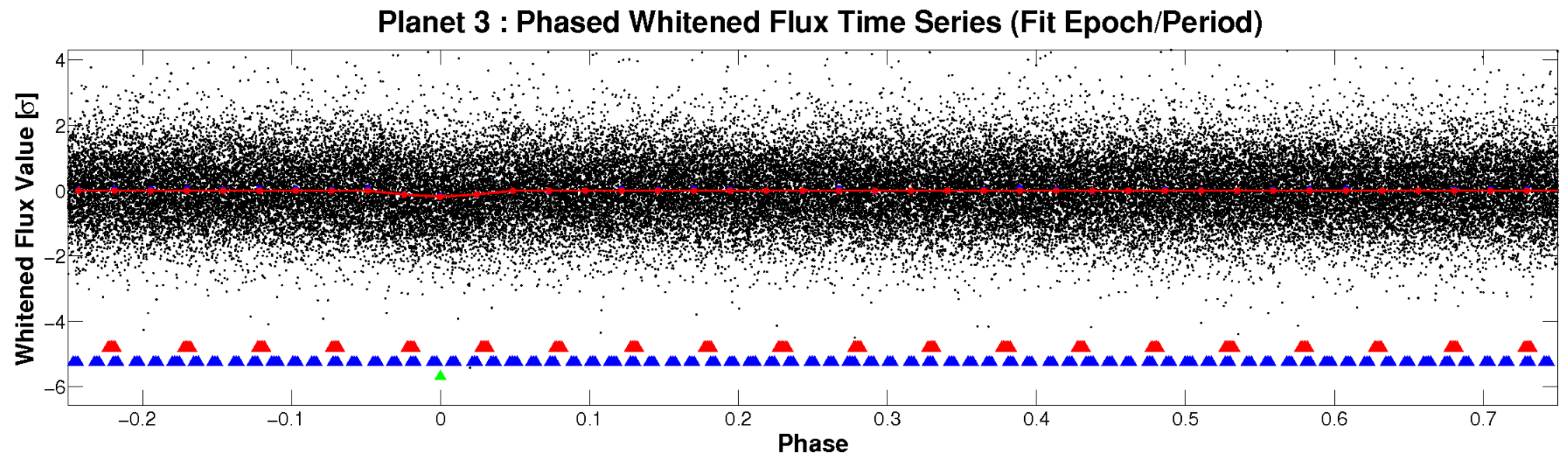
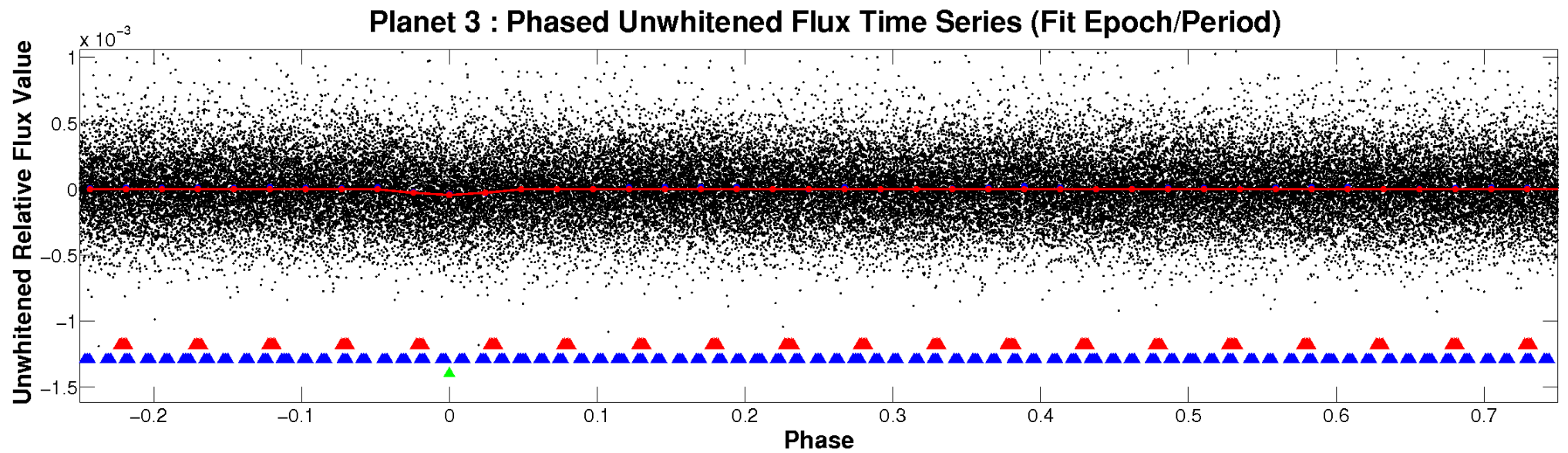


ALT Odd/Even

TCE 007841925-03

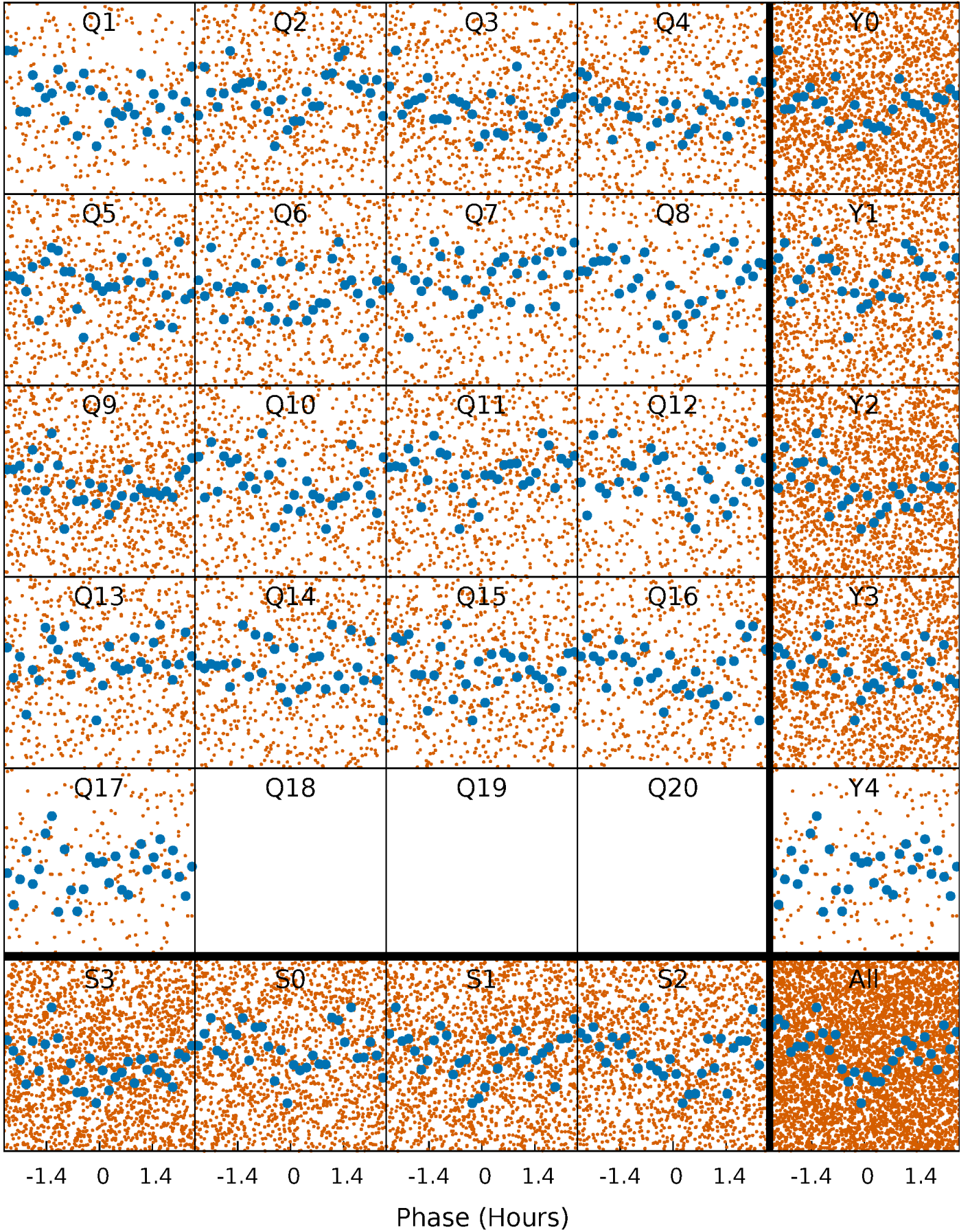


Non-Whitened Vs. Whitened Light Curve



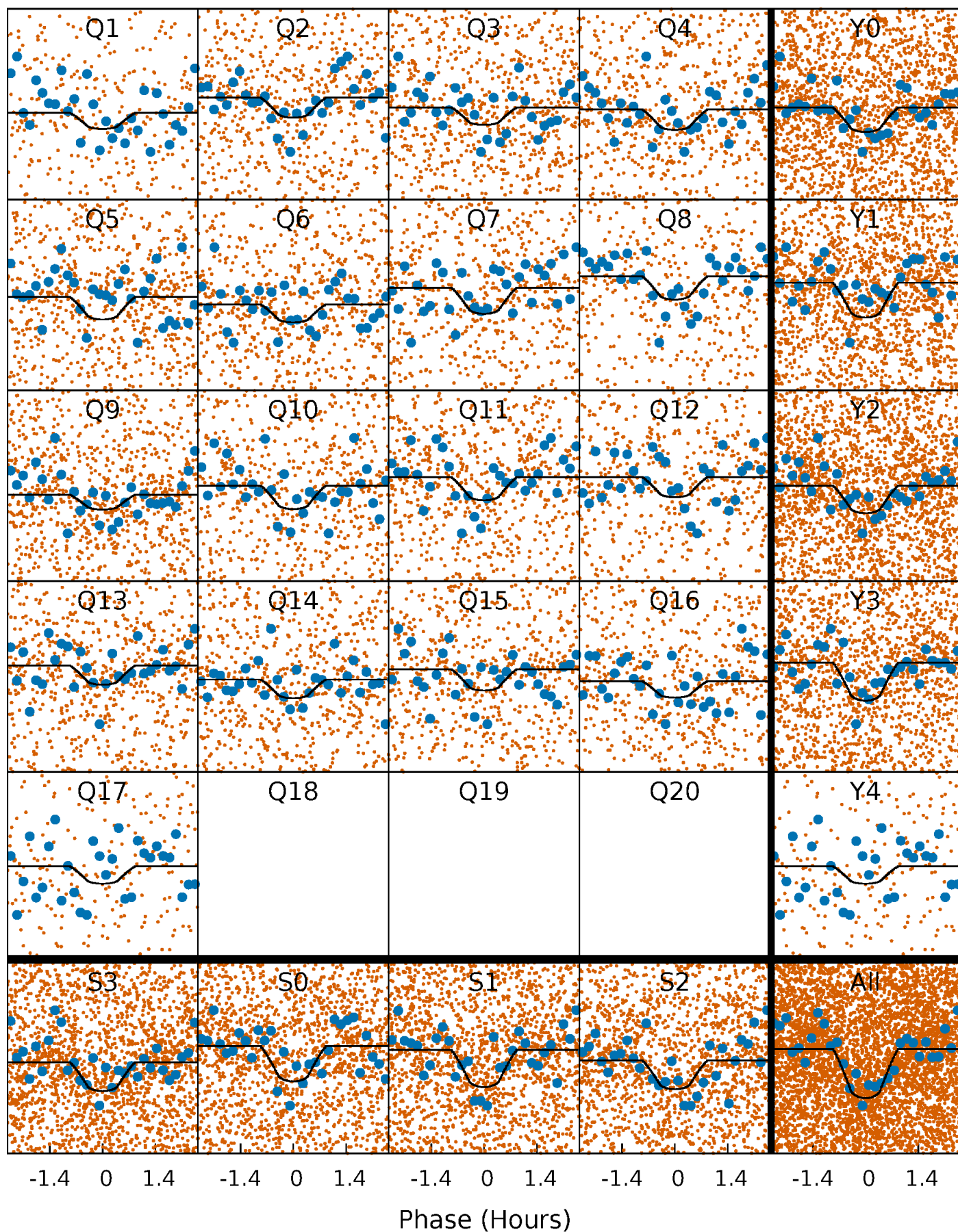
PDC Quarter-Phased Transit Curves

TCE 007841925-03 P= 0.840591 Days $T_0=131.740581$ (BKJD)



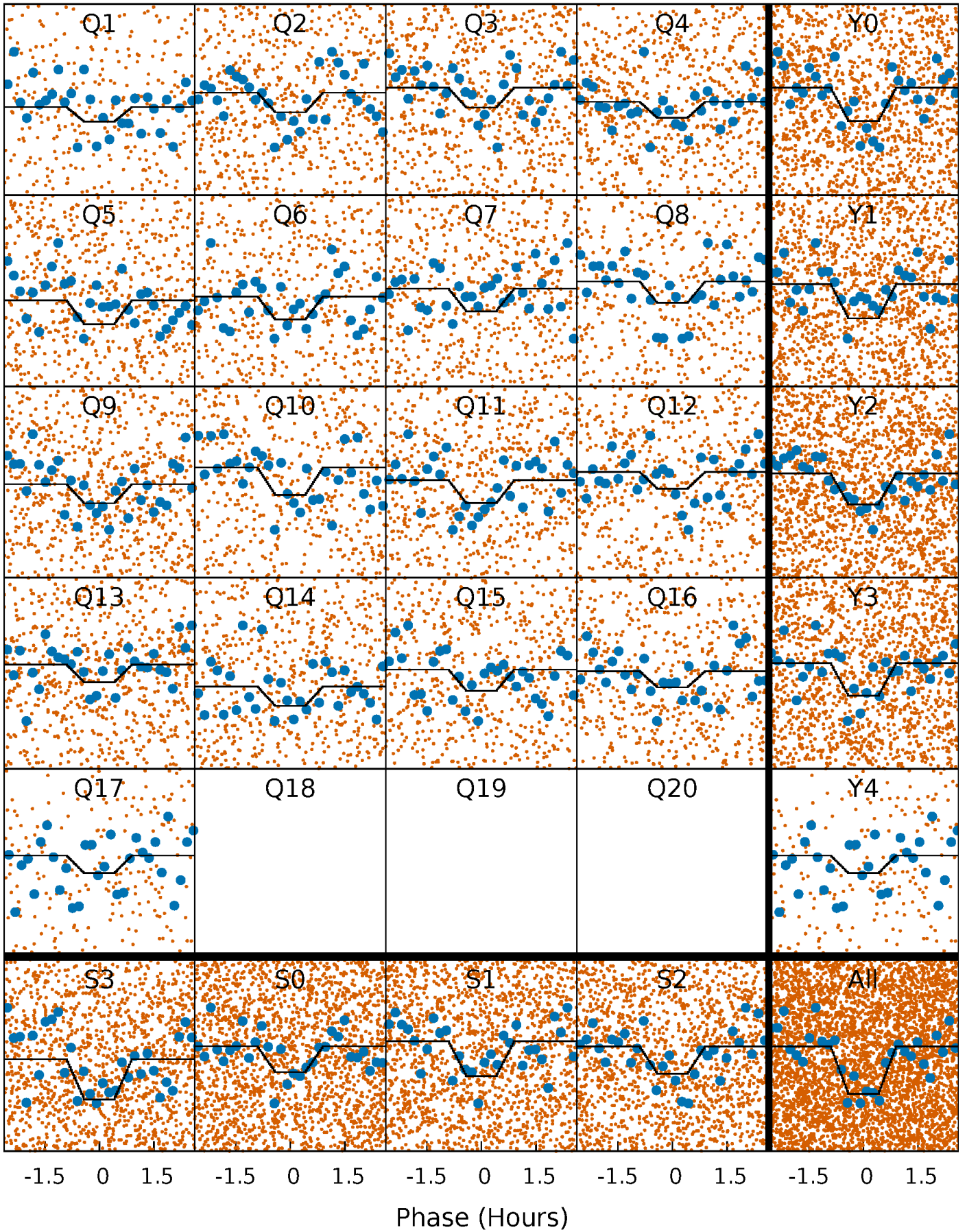
DV Quarter-Phased Transit Curves

TCE 007841925-03 P= 0.840591 Days $T_0=131.740581$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

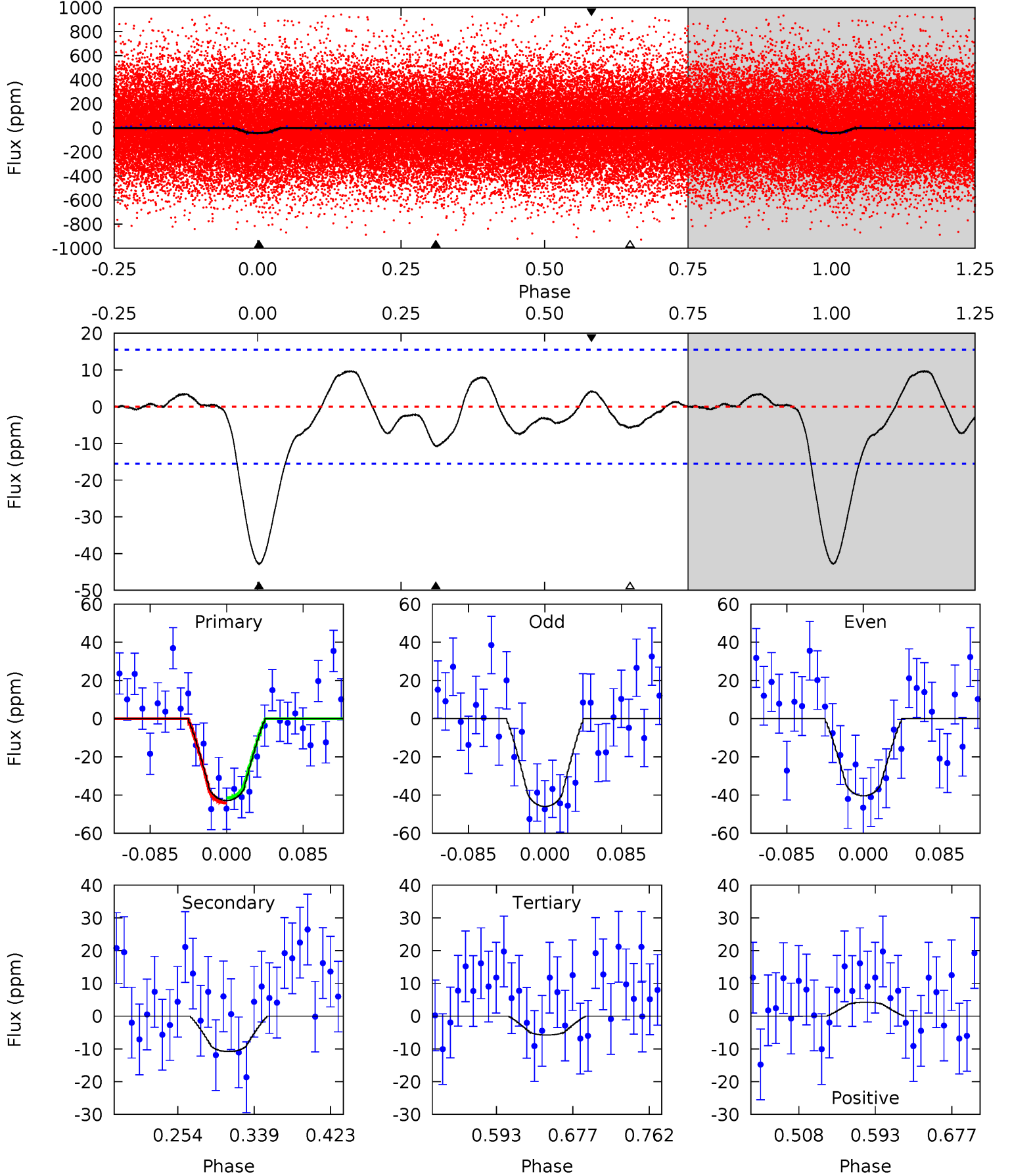
TCE 007841925-03 P= 0.840593 Days $T_0=131.741464$ (BKJD)



DV Model-Shift Uniqueness Test

007841925-03, P = 0.840591 Days, E = 130.899990 Days

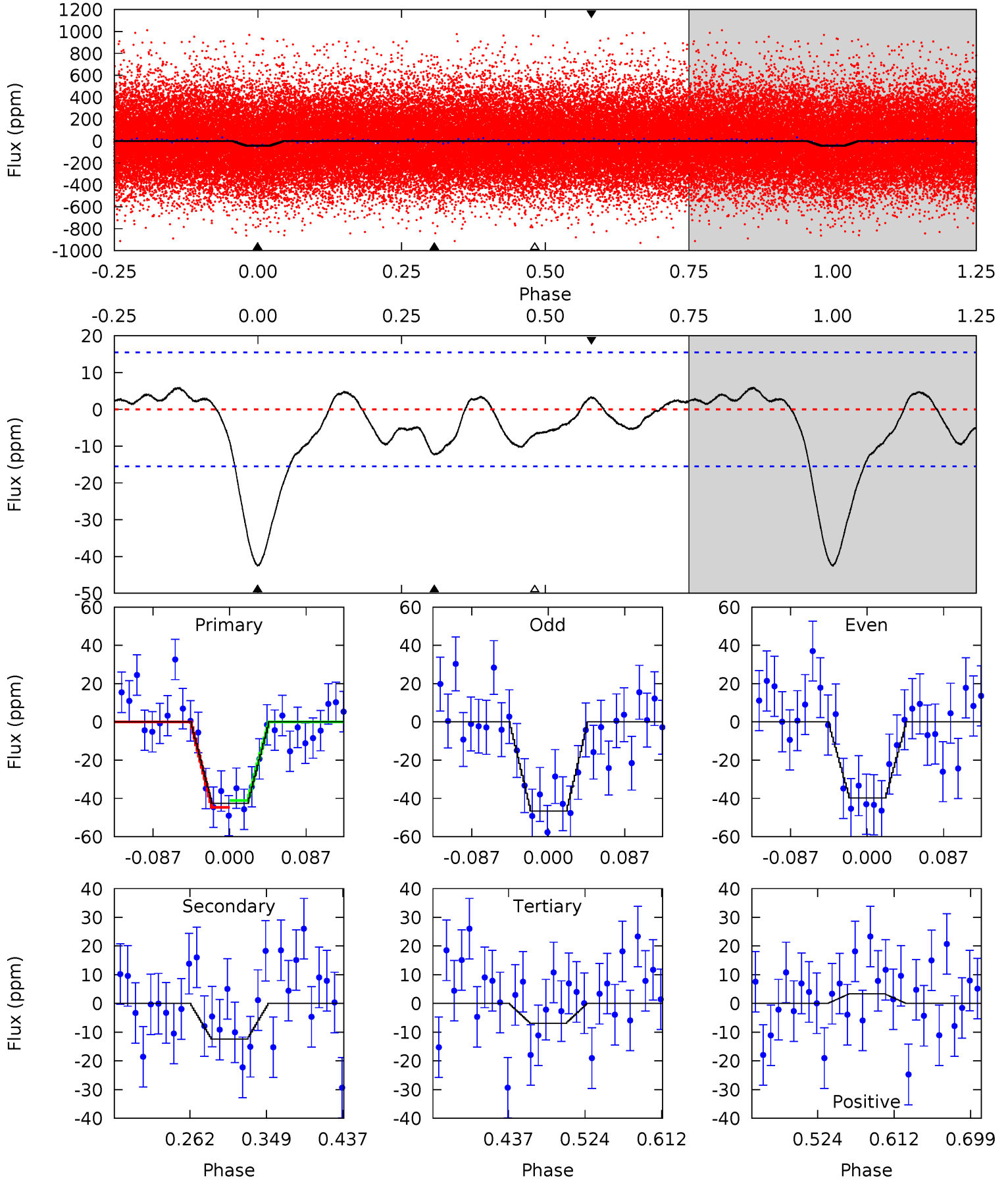
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.7	3.19	1.70	1.25	4.60	1.72	1.22	11.0	11.4	1.49	1.94	0.83	0.81	0.18	0.39



Alt Model-Shift Uniqueness Test

007841925-03, P = 0.840593 Days, E = 130.900871 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.6	3.67	2.05	0.99	4.59	1.71	1.29	10.6	11.6	1.63	2.69	1.02	0.88	0.12	0.53



Stellar Parameters For KIC 007841925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5440^{+162}_{-162}	$4.438^{+0.144}_{-0.192}$	$-0.240^{+0.350}_{-0.300}$	$0.885^{+0.193}_{-0.129}$	$0.782^{+0.116}_{-0.062}$	$1.590^{+0.978}_{-0.707}$
	+3%/-3%	+3%/-4%	+146%/-125%	+22%/-15%	+15%/-8%	+62%/-44%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007841925-03 / KOI 1499.02

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-11 ± 3	$1.33^{+1.25}_{-0.89}$	2498^{+167}_{-144}	3044^{+1574}_{-5445}	$0.855^{+6.579}_{-0.646}$
Alt.	-12 ± 3	$1.37^{+1.16}_{-0.95}$	2505^{+152}_{-149}	3090^{+1802}_{-5308}	$0.958^{+8.484}_{-0.701}$

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 $A_{obs} \gg 1.0$

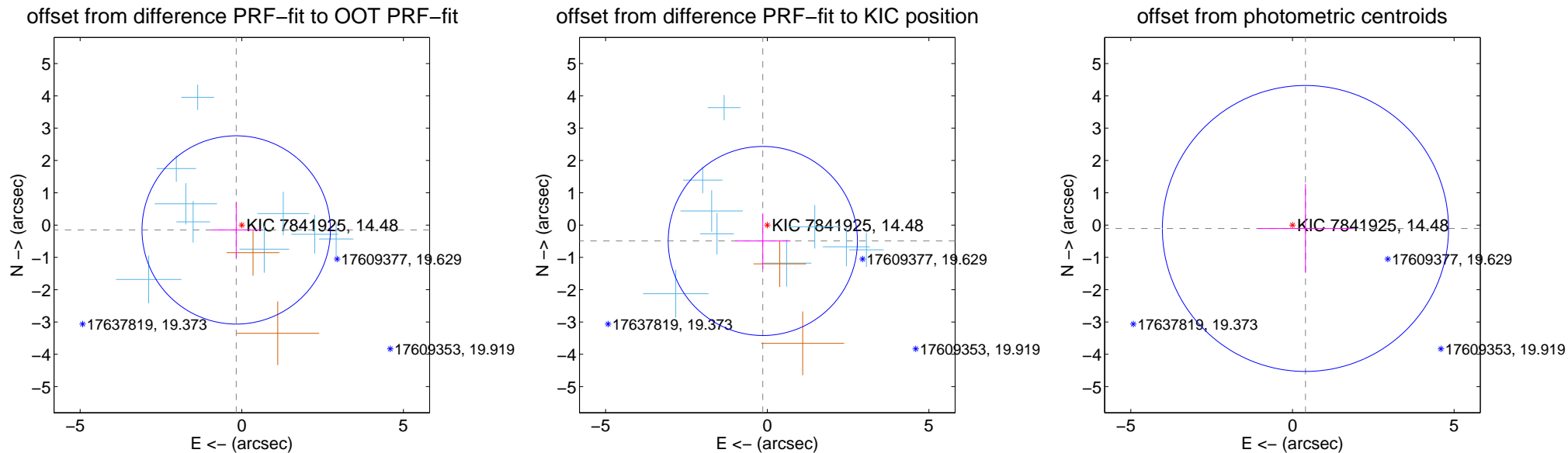
DV Centroid Data

Supplemental centroid analysis for 007841925-03. Kepler magnitude: 14.48. Transit SNR 9.25

There are 9 quarters with good PRF difference image offsets

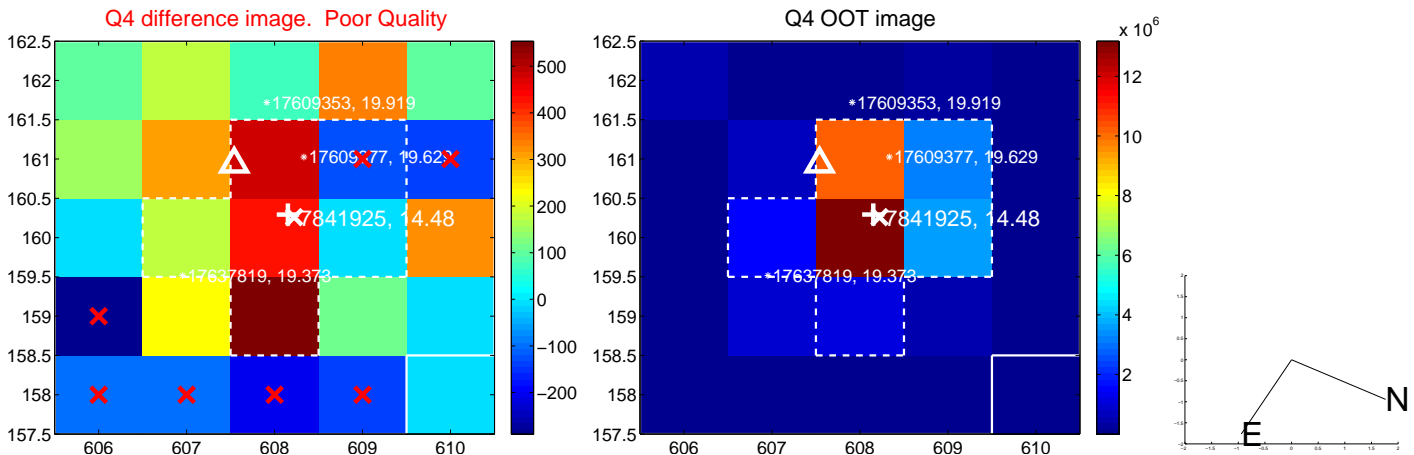
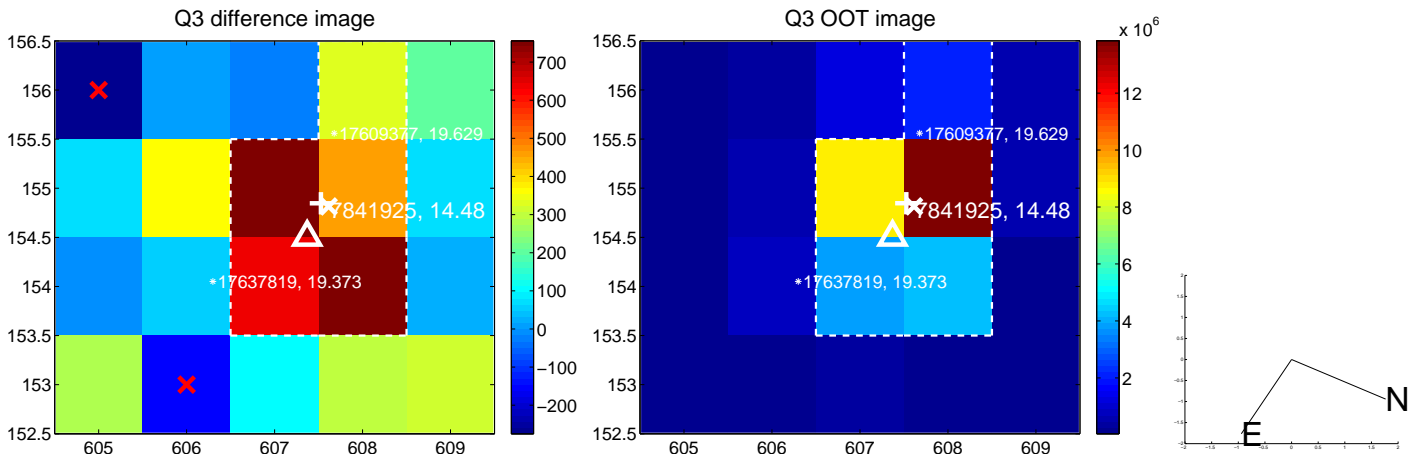
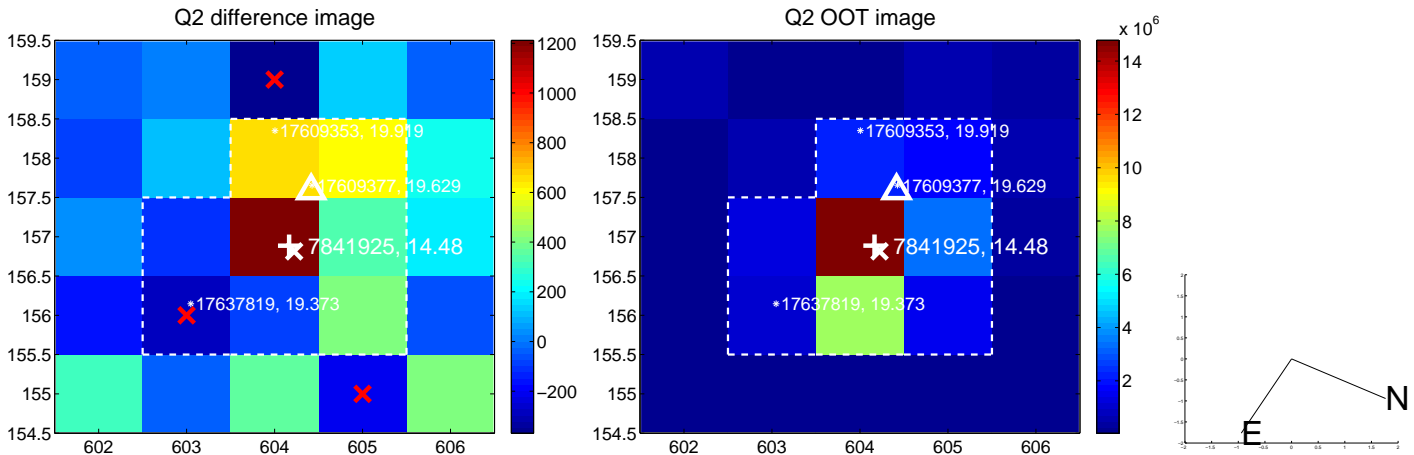
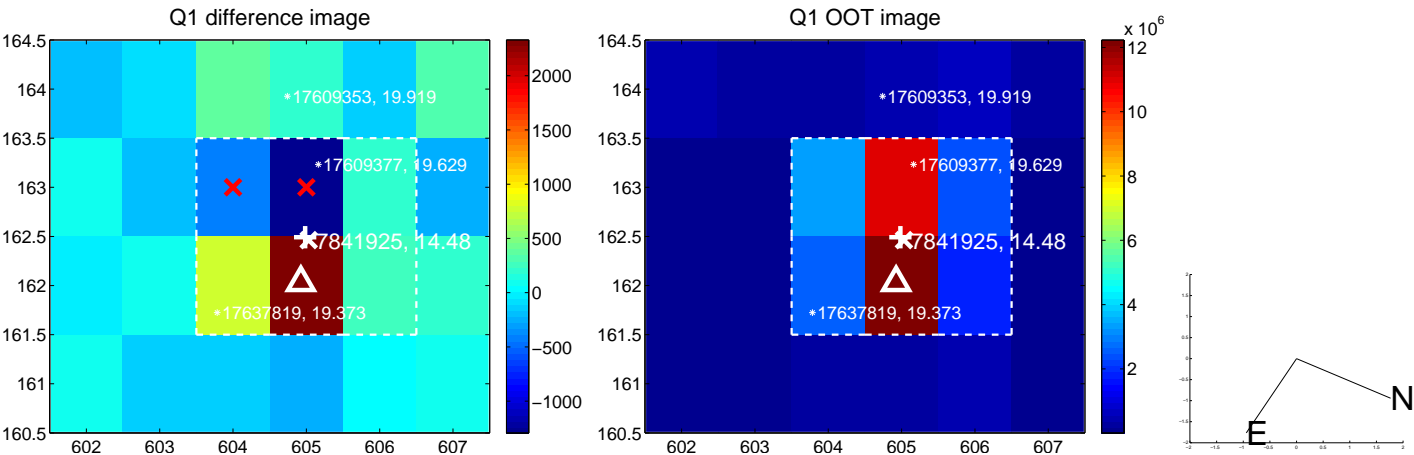
The direct PRF centroid is offset from the target star catalog position by about 0.44 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.229 ± 0.971	0.24	0.173 ± 0.760	-0.150 ± 0.855
PRF-fit source offset from KIC position	0.511 ± 0.975	0.52	0.138 ± 0.857	-0.492 ± 0.860
photometric centroid source offset	0.42 ± 1.48	0.28	-0.40 ± 1.48	-0.11 ± 1.37

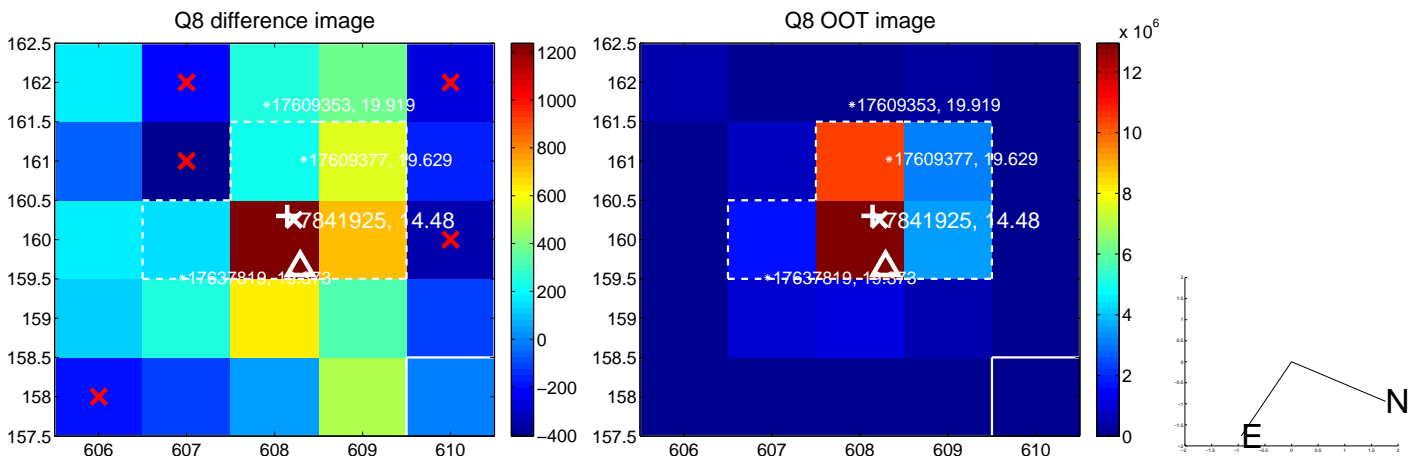
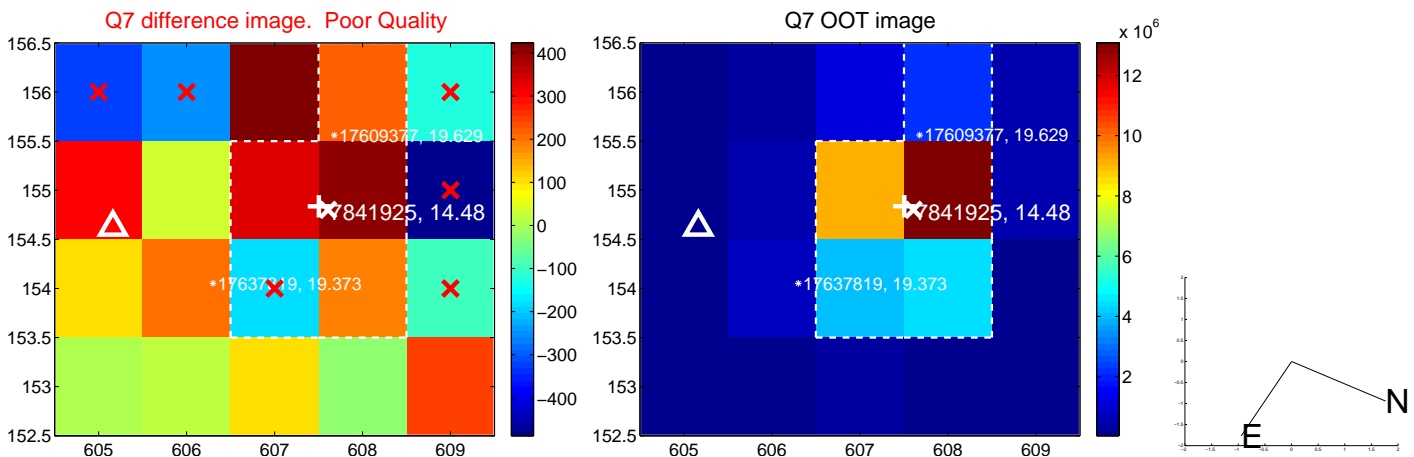
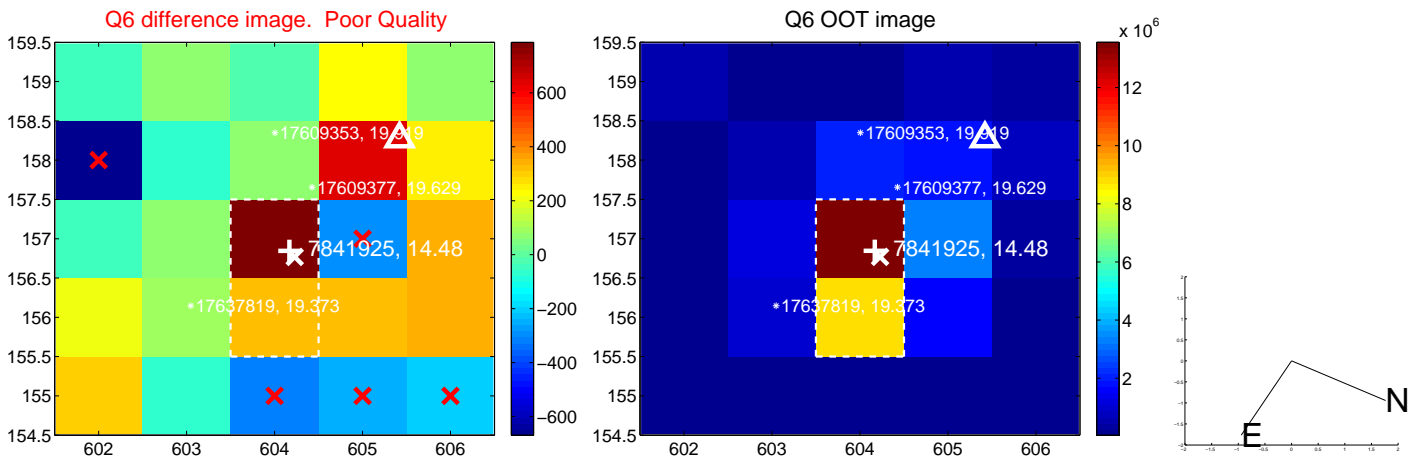
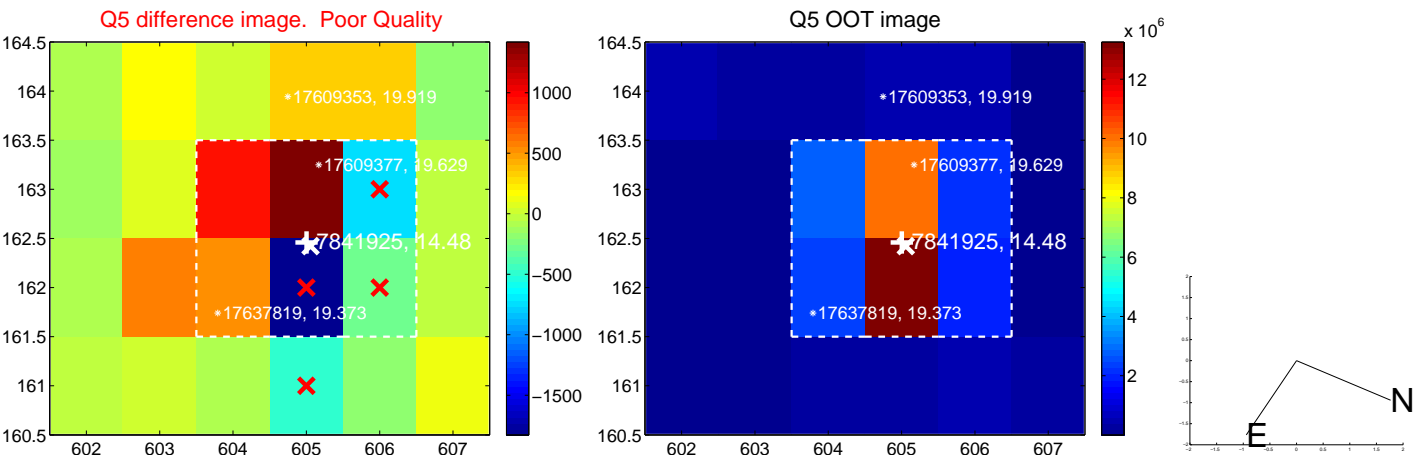


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

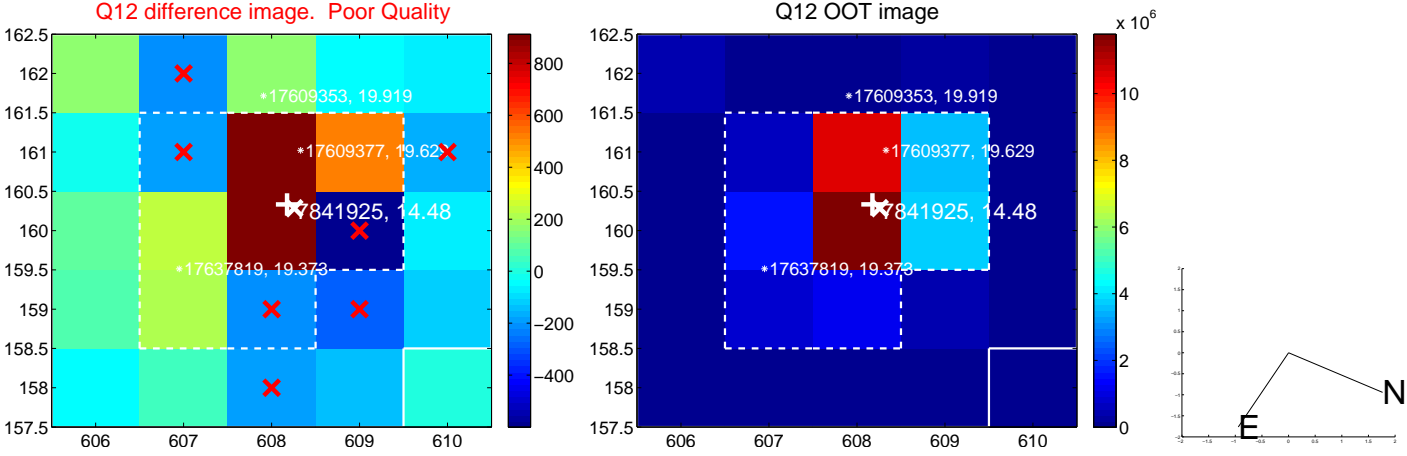
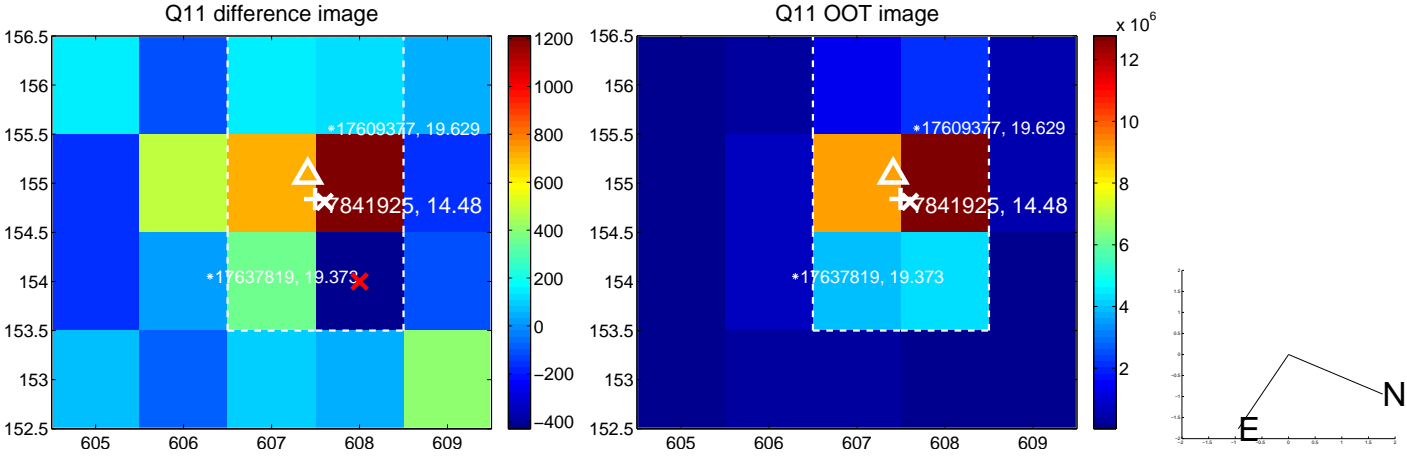
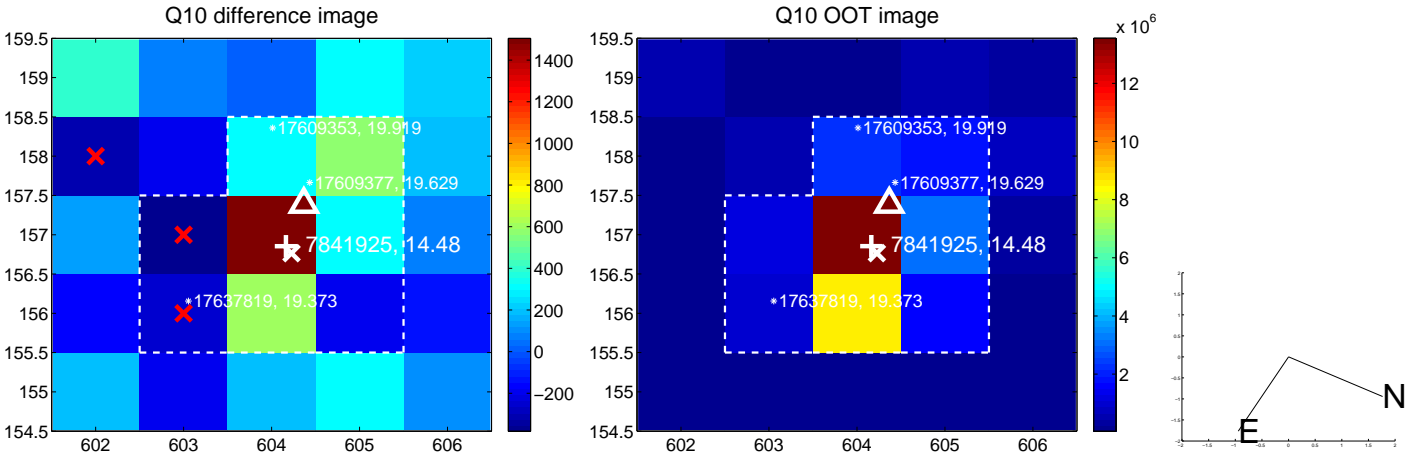
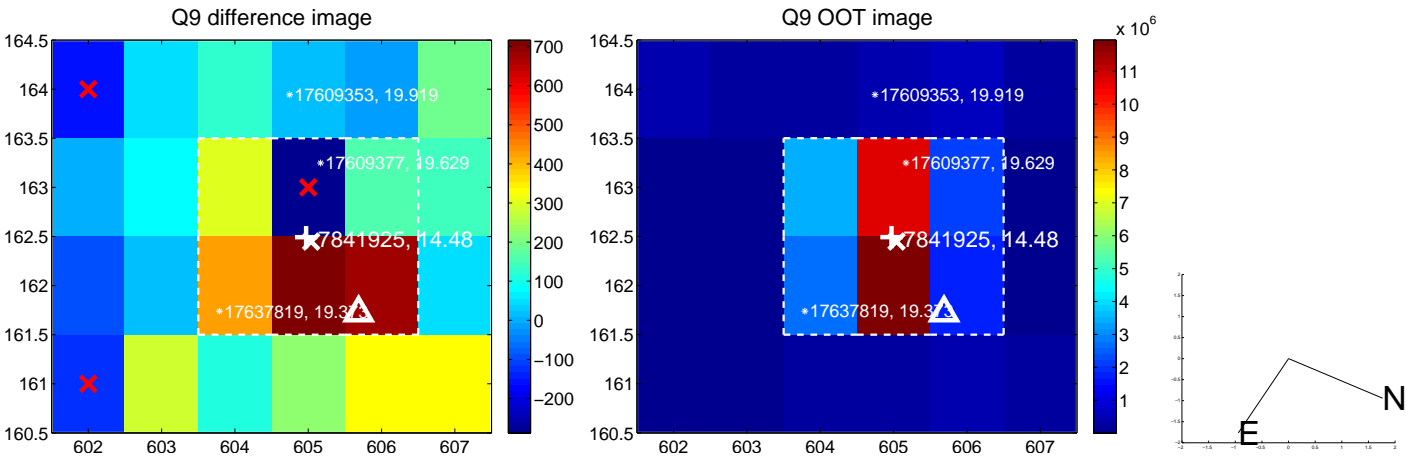
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



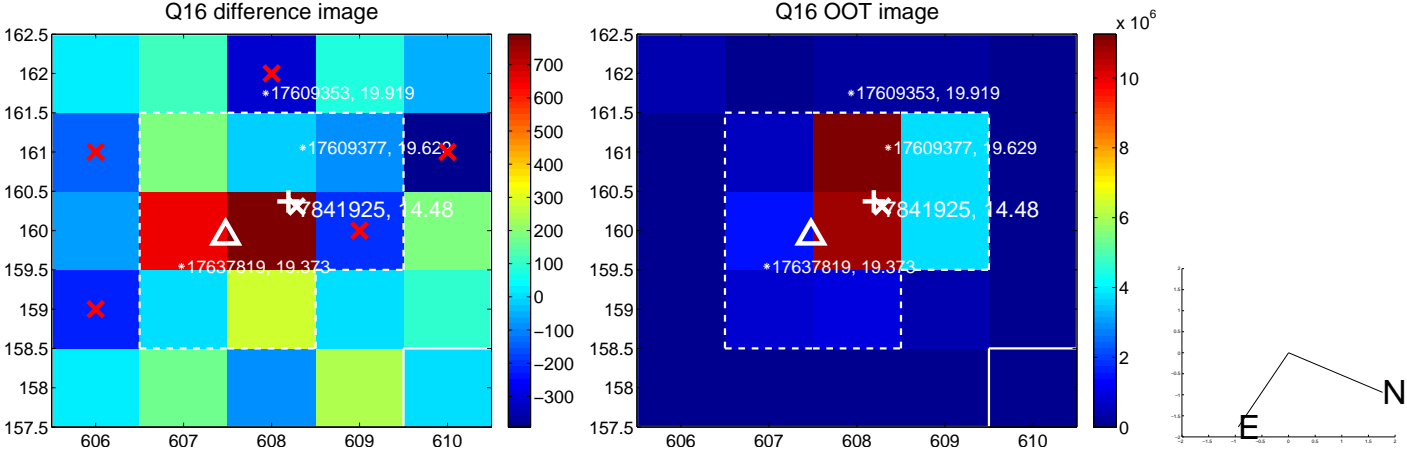
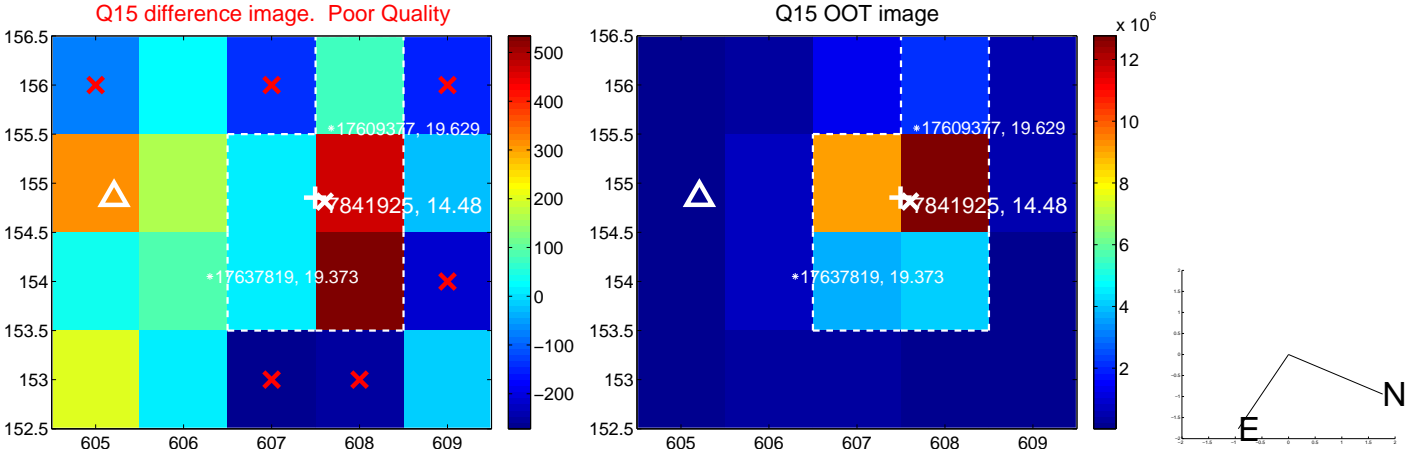
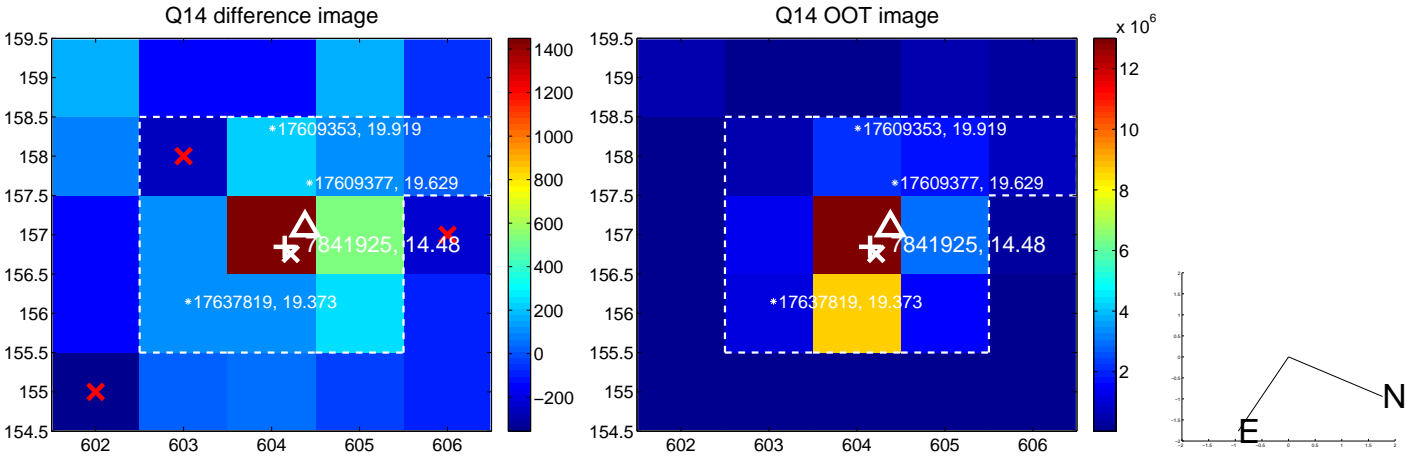
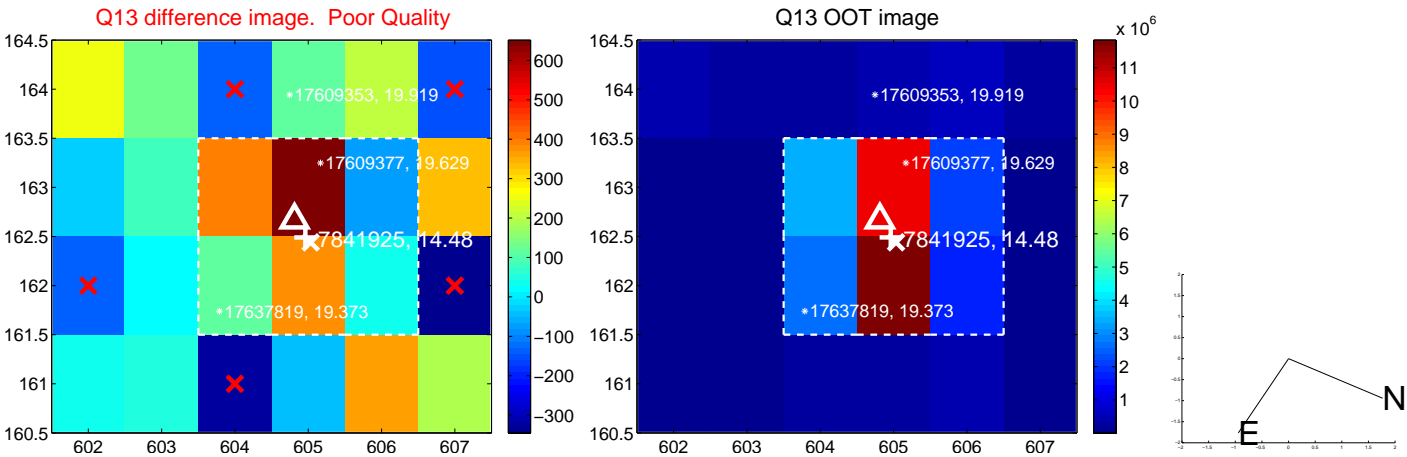
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



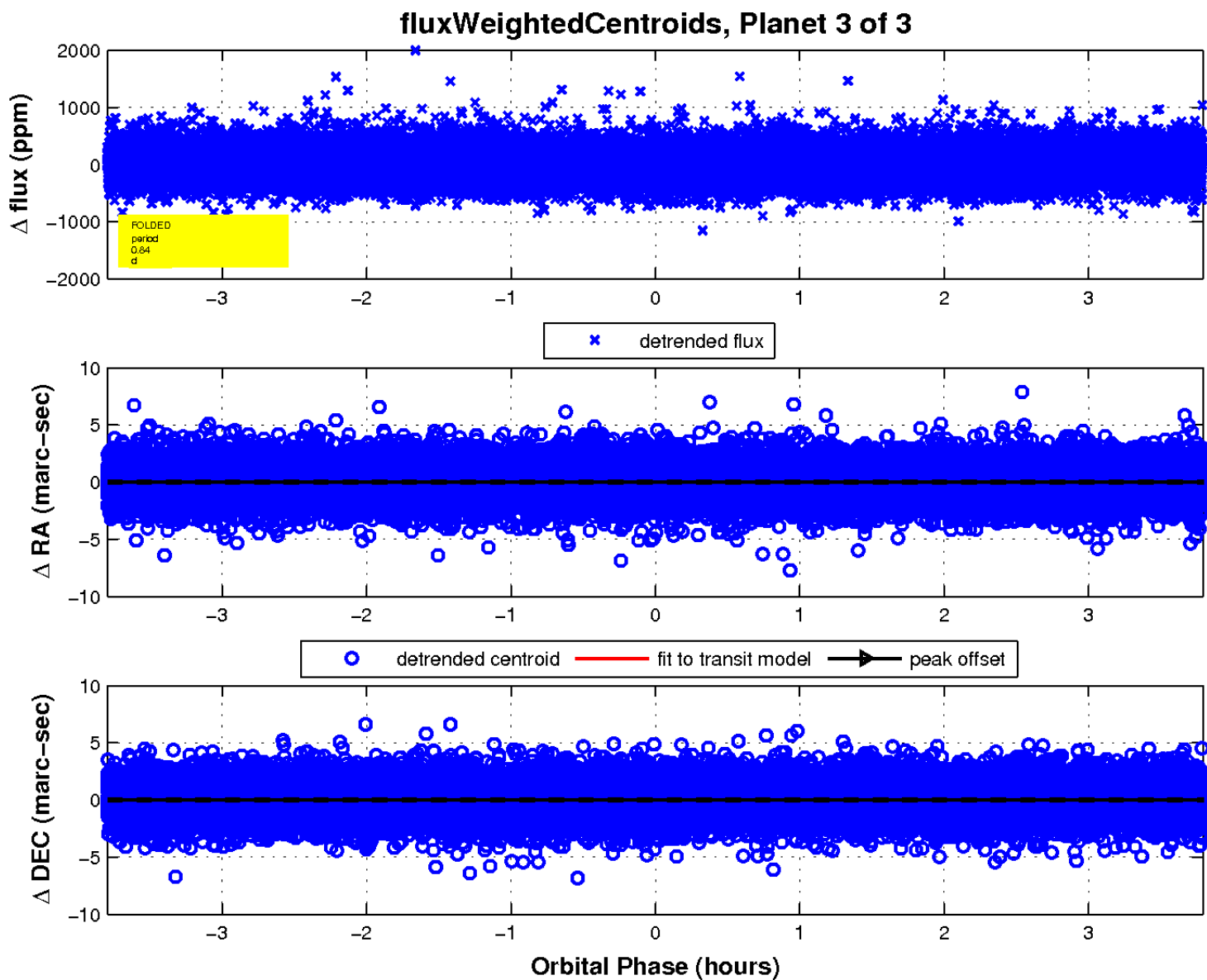
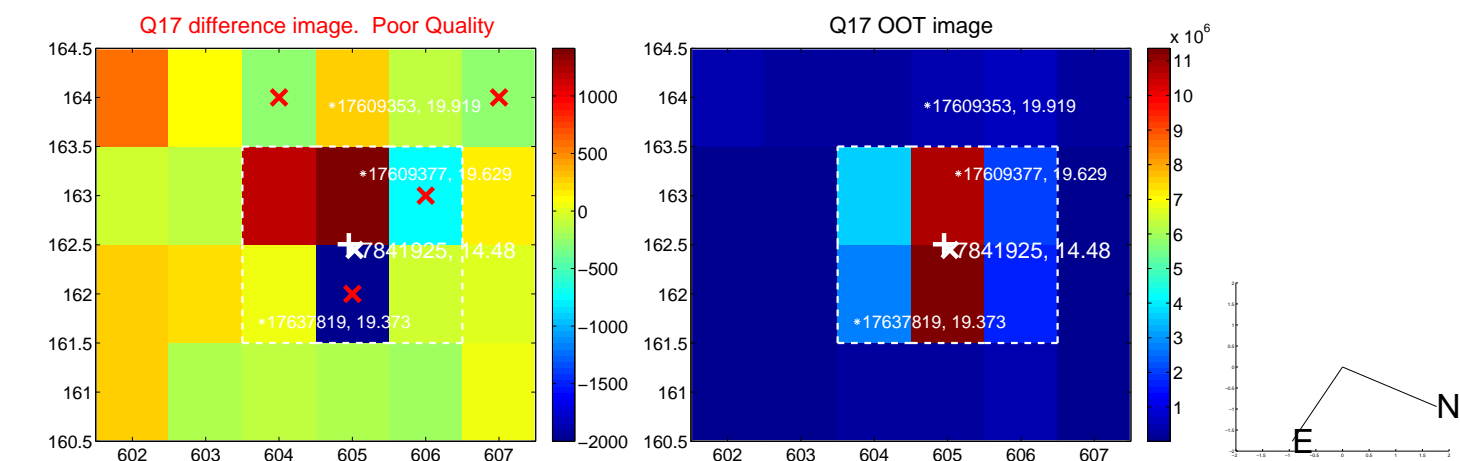
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

