

KIC 010265898

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})
010265898-01	OBS	0732.01	1.260238	132.610442	495.0	1.628	18.5	47.3	0.95	5550	2.57	1436.02
010265898-02	OBS	0732.03	5.254557	132.546104	182.5	3.149	10.6	11.1	0.95	5550	1.52	213.99
010265898-03	OBS	0732.02	3.295320	132.497170	151.7	1.933	8.2	9.2	0.95	5550	1.44	398.63

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010265898-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
010265898-02	OBS	PC	0.99	0	0	0	0	CENT_FEW_DIFFS
010265898-03	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.

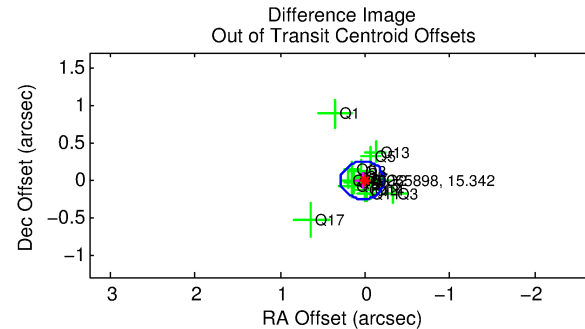
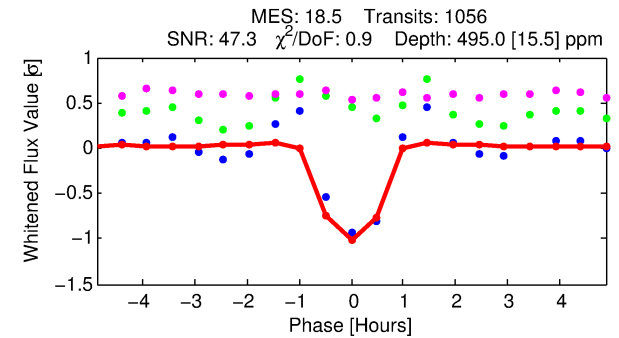
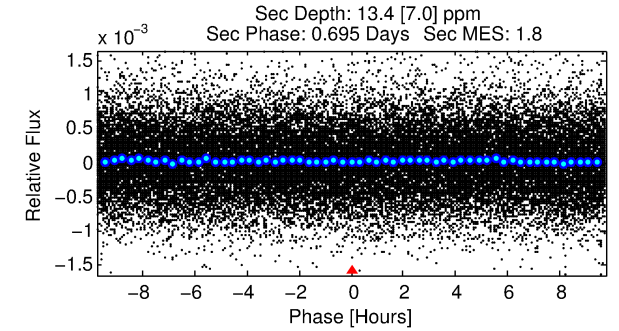
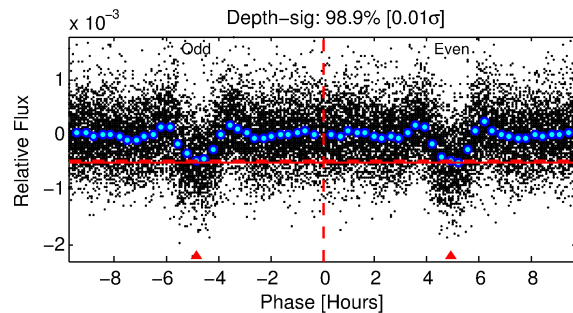
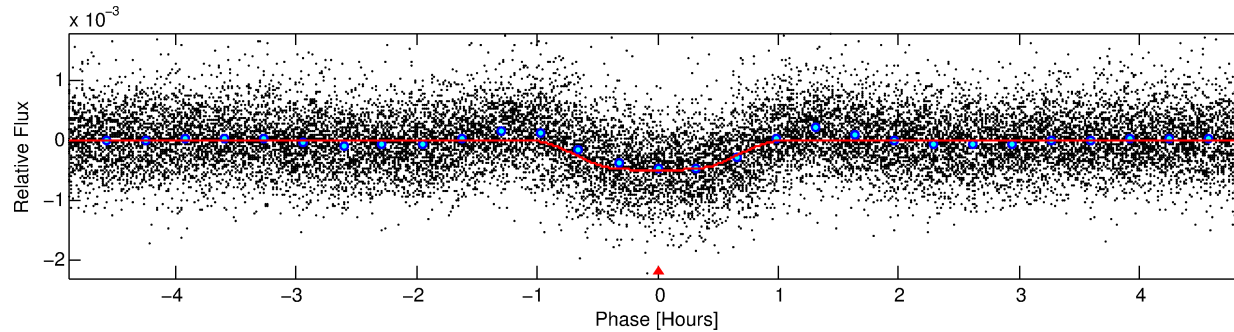
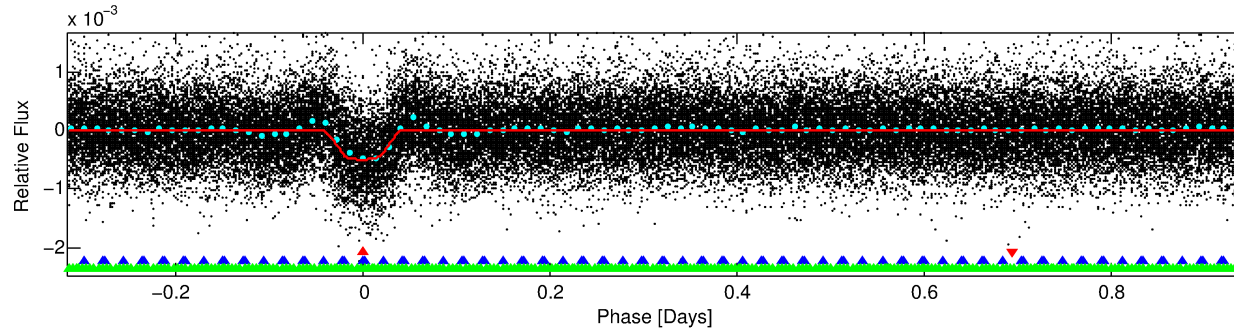
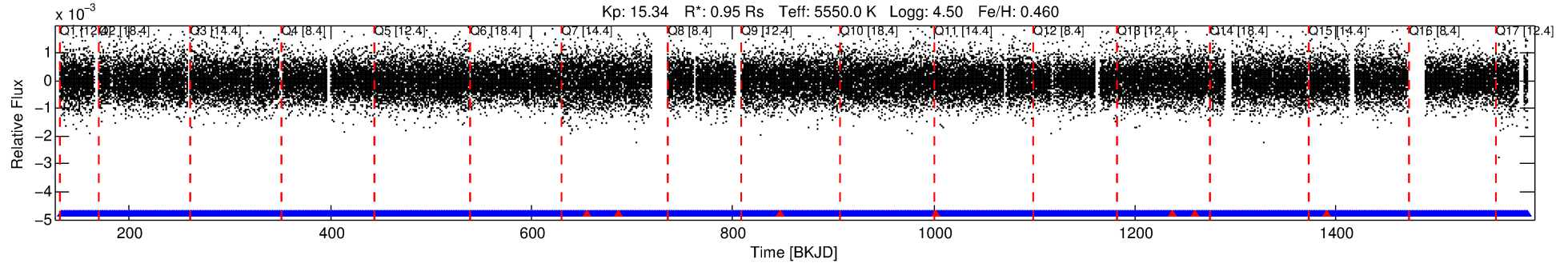
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010265898-01

No Significant Match Found

DV One-Page Summary

KIC: 10265898 Candidate: 1 of 3 Period: 1.260 d
KOI: K00732.01 Corr: 0.898



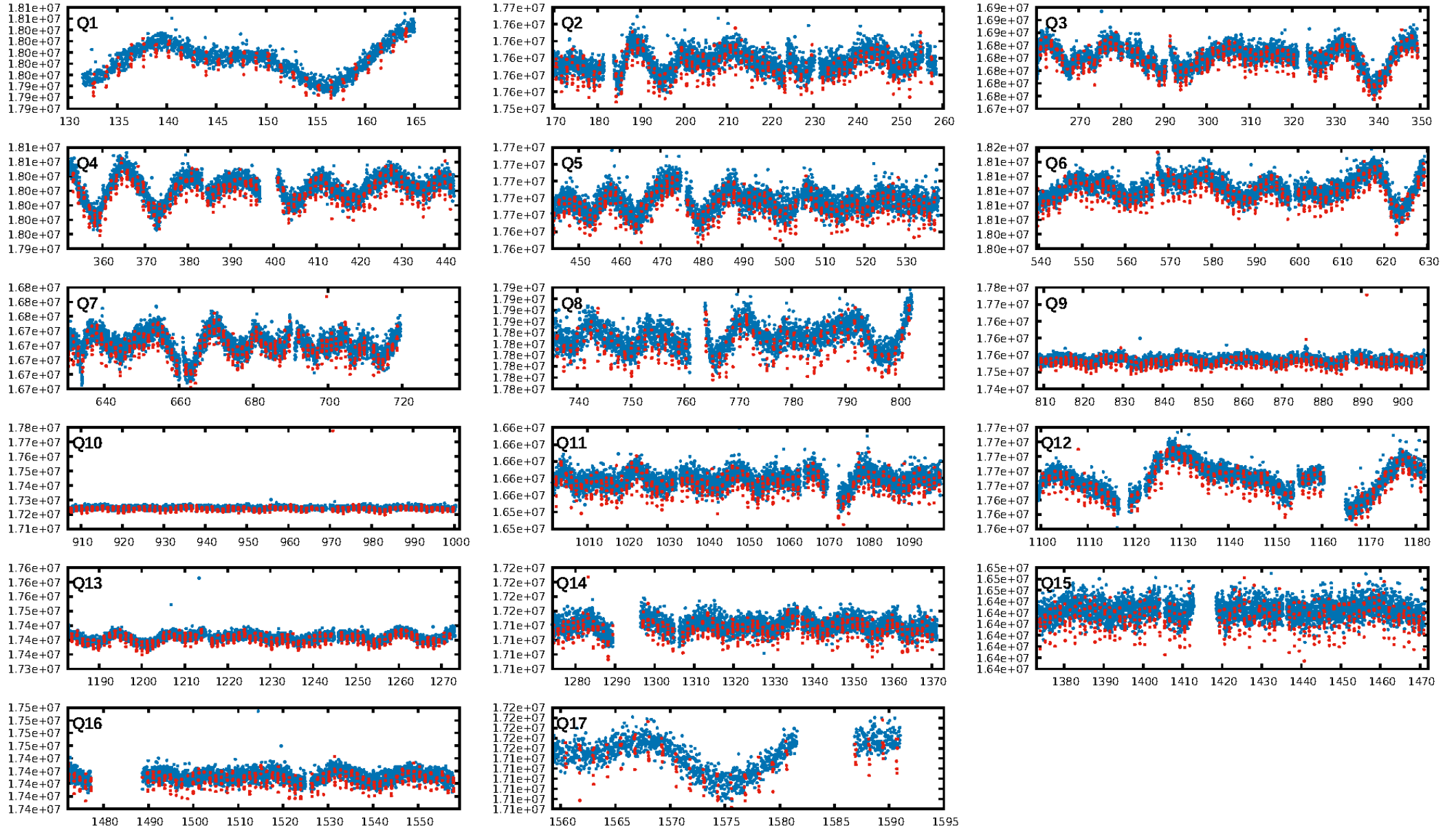
DV Fit Results:

Period = 1.26024 [0.00000] d
Epoch = 132.6104 [0.0005] BKJD
Rp/R* = 0.0247 [0.0034]
a/R* = 3.05 [1.57]
b = 0.90 [0.13]
Seff = 1436.02 [514.14]
Teq = 1570 [140] K
Rp = 2.57 [0.77] Re
a = 0.0232 [0.0052] AU
Ag = 0.60 [0.41] [-0.98 σ]
Teffp = 2136 [324] K [1.60 σ]

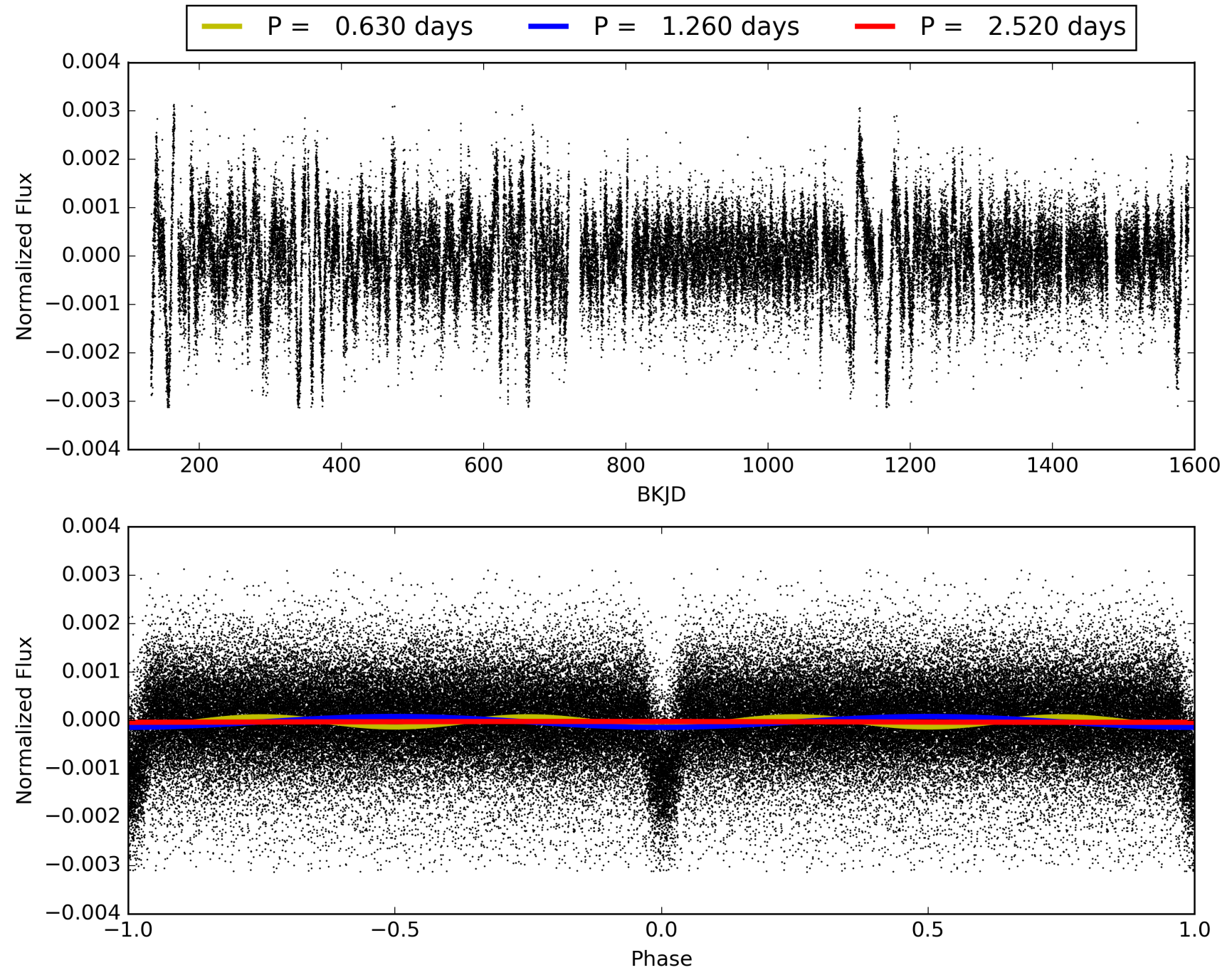
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [19.32 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.04e-76
RollingBand-fgt: 0.99 [1002/1009]
GhostDiagnostic-chr: 2.248
Centroid-sig: 38.5%
Centroid-so: 0.266 arcsec [0.88 σ]
OotOffset-rm: 0.029 arcsec [0.34 σ]
KicOffset-rm: 0.163 arcsec [1.67 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 010265898-01, PDC Light Curves

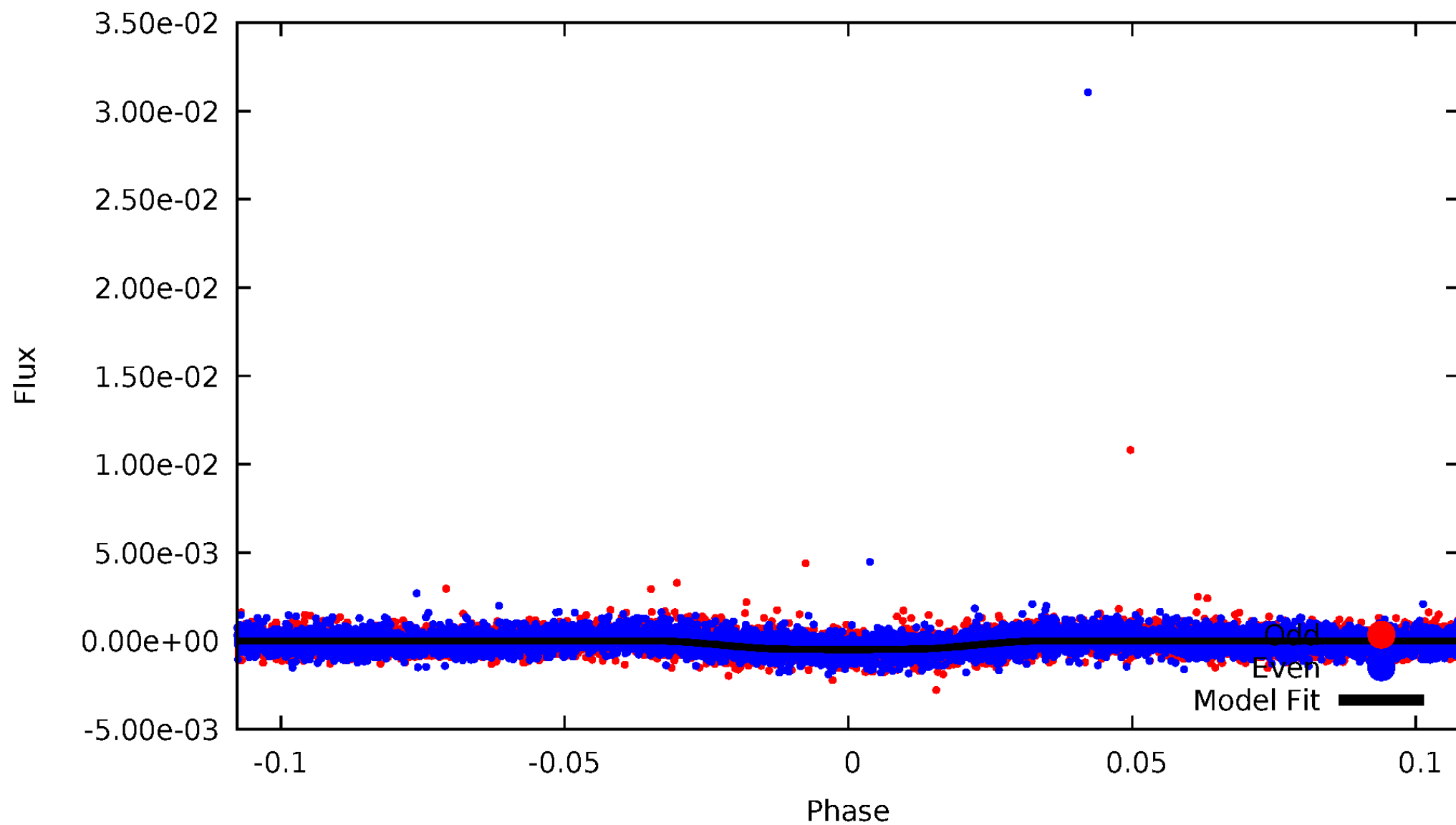


TCE 010265898-01



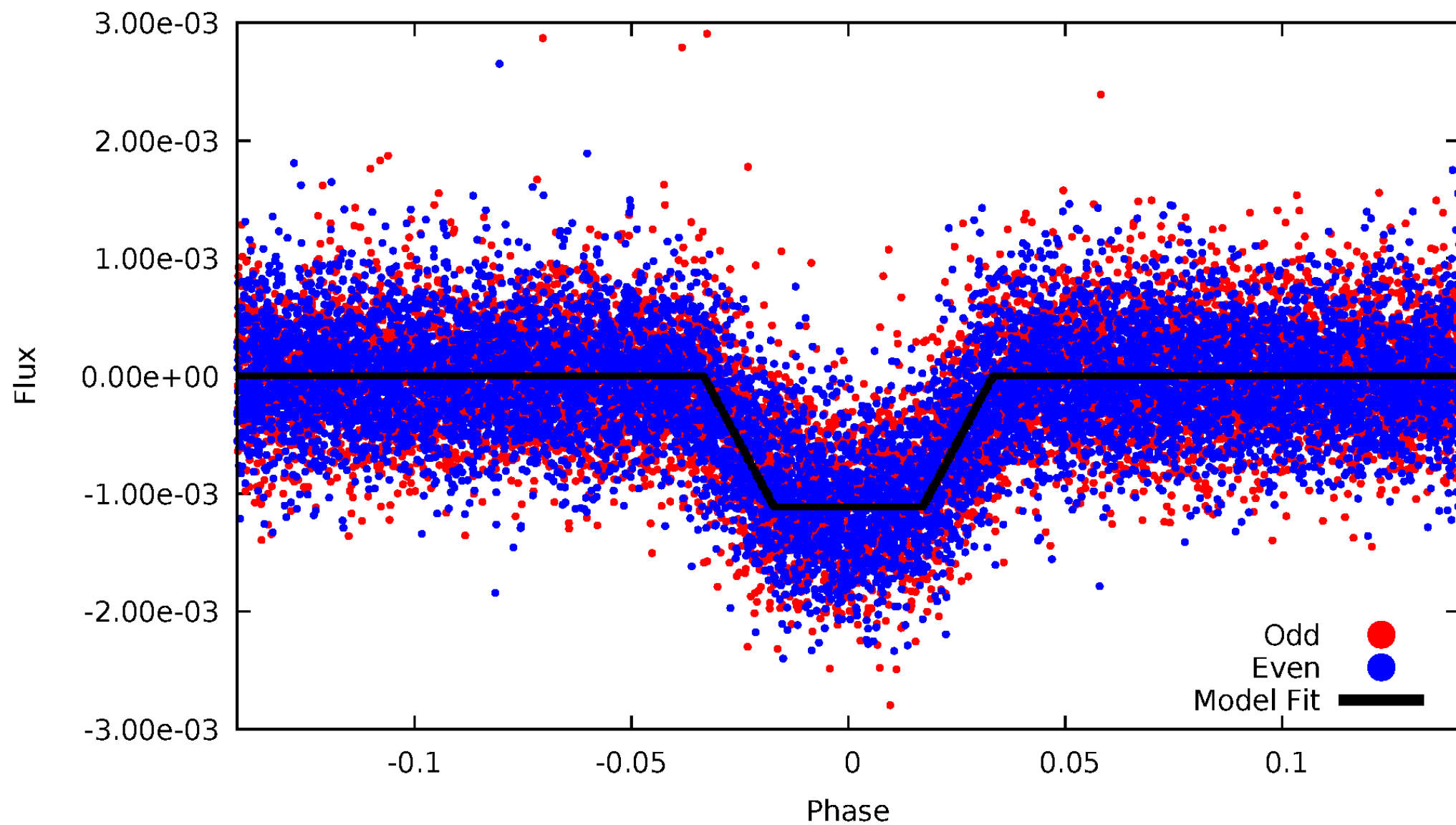
DV Odd/Even

TCE 010265898-01



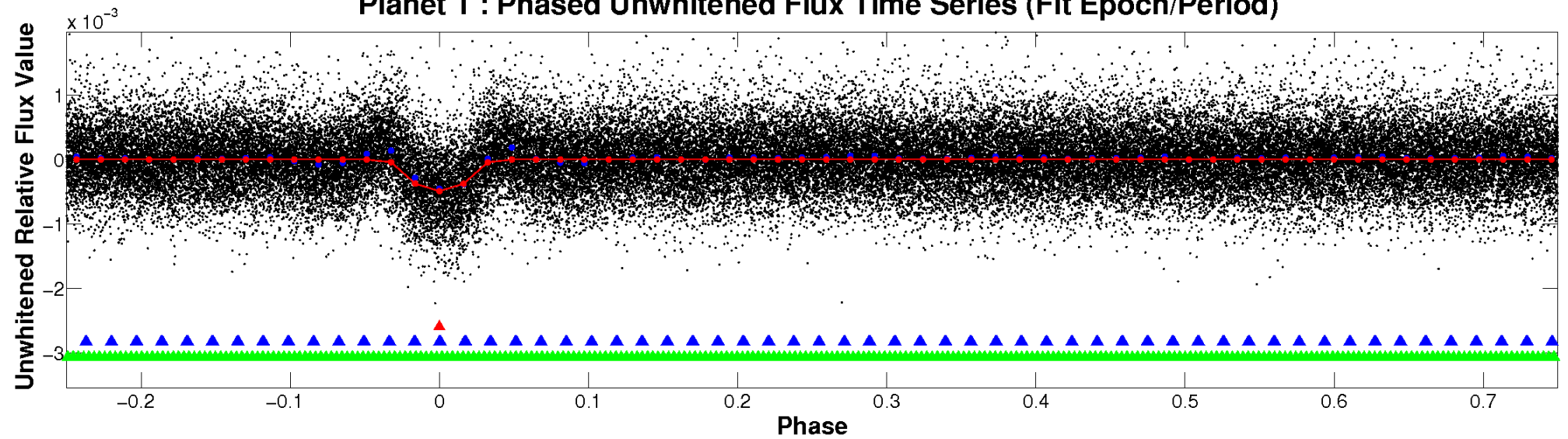
ALT Odd/Even

TCE 010265898-01

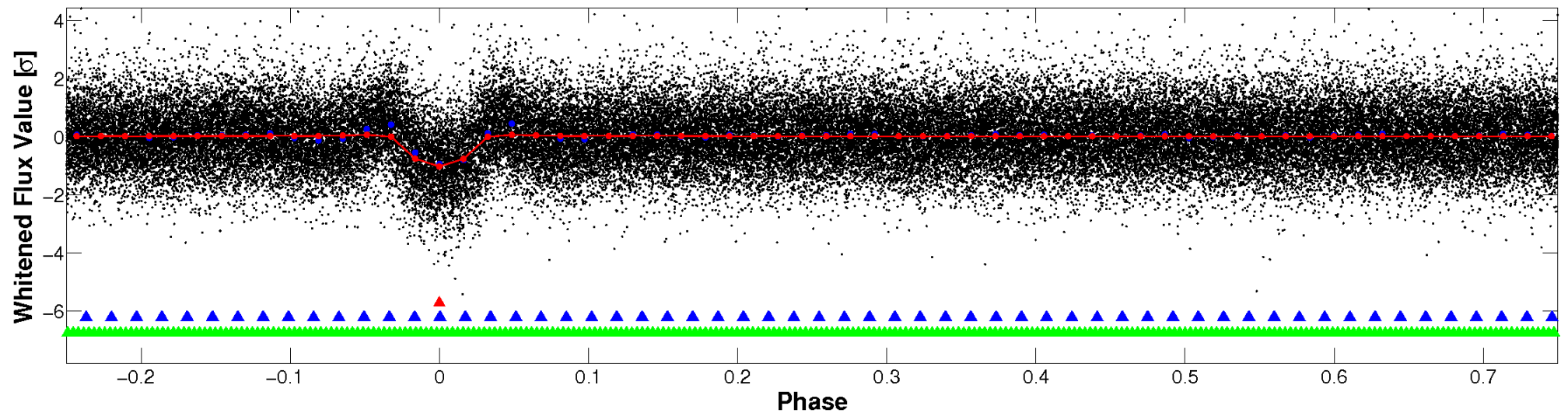


Non-Whitened Vs. Whitened Light Curve

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

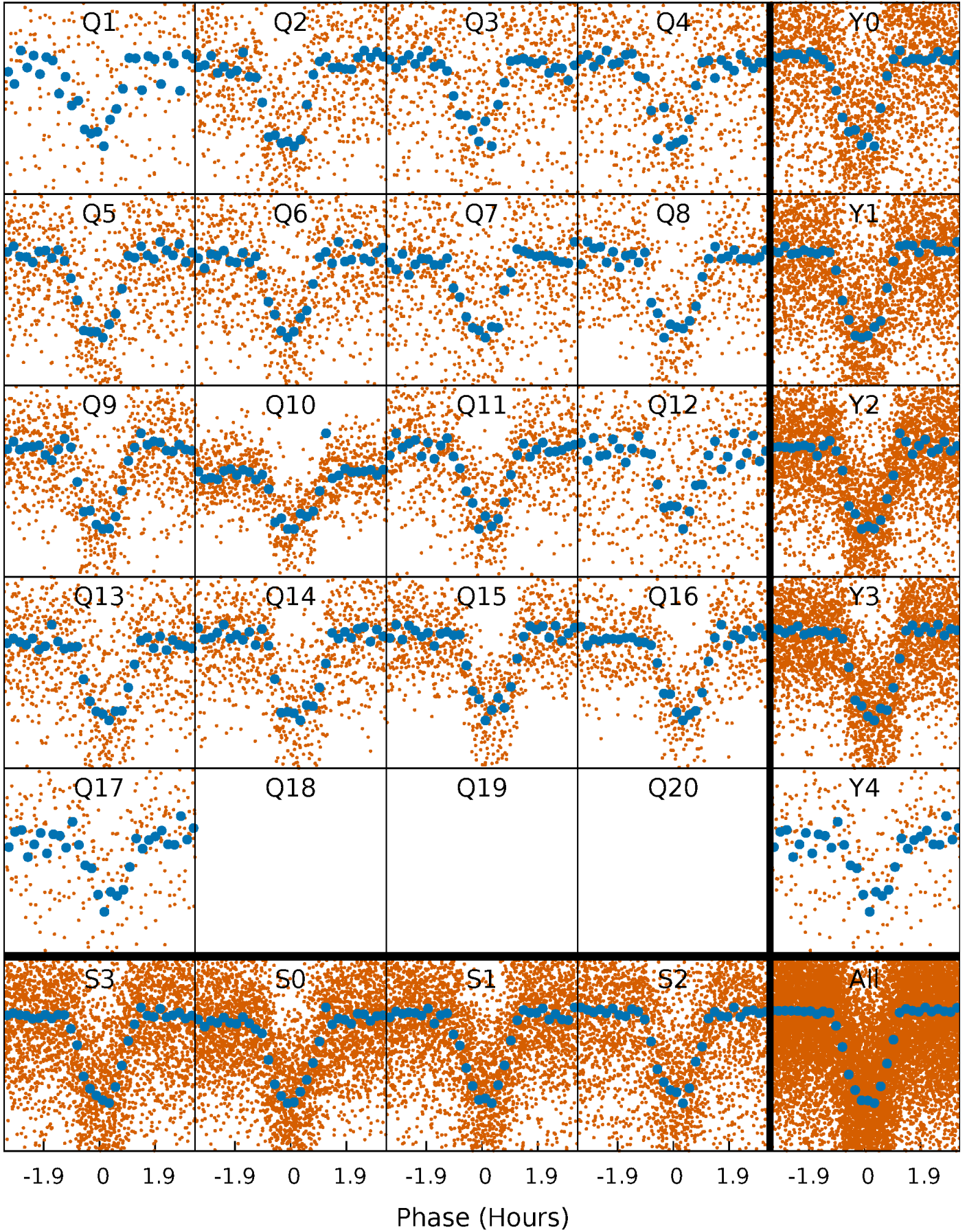


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



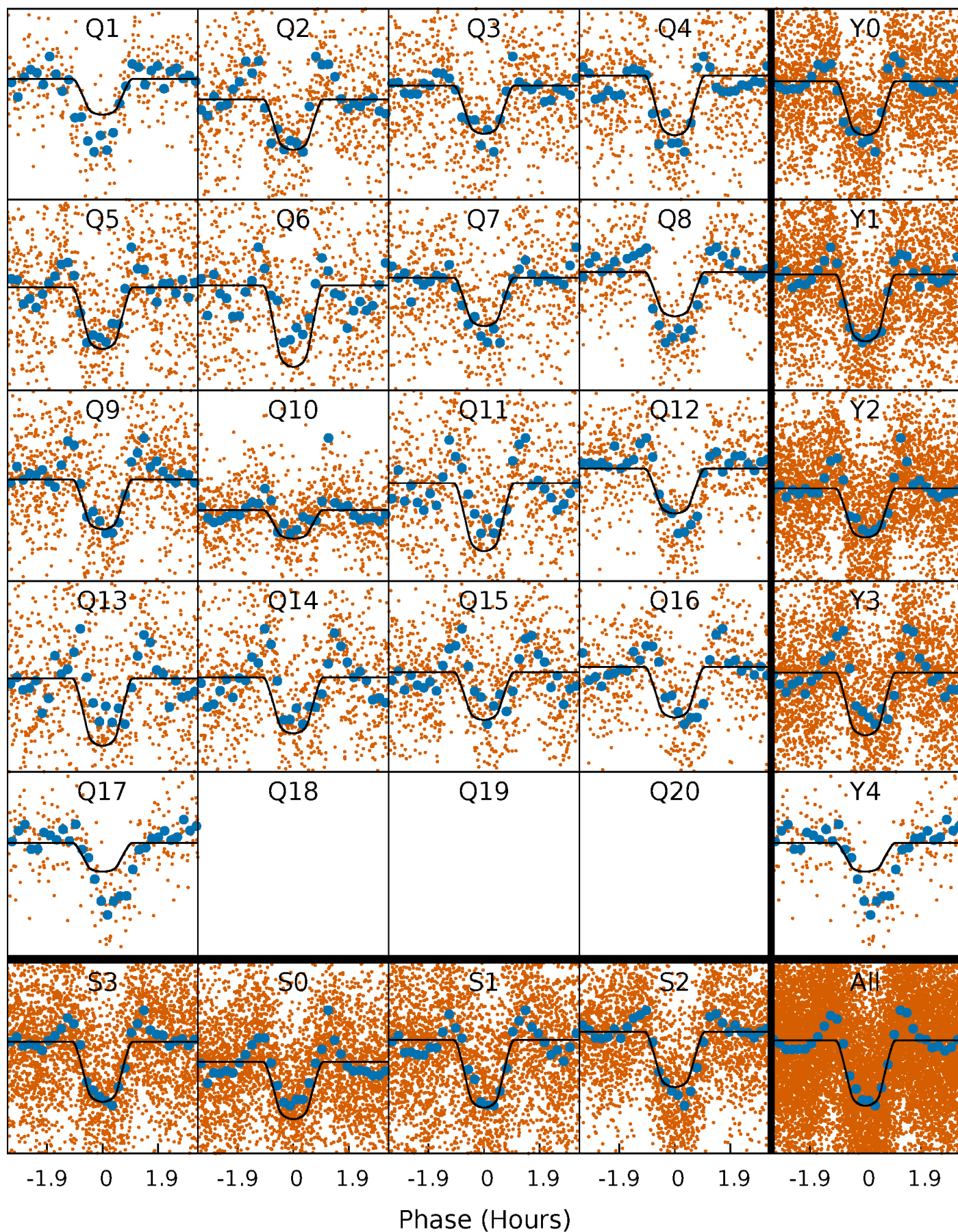
PDC Quarter-Phased Transit Curves

TCE 010265898-01 P= 1.260238 Days $T_0=132.610442$ (BKJD)



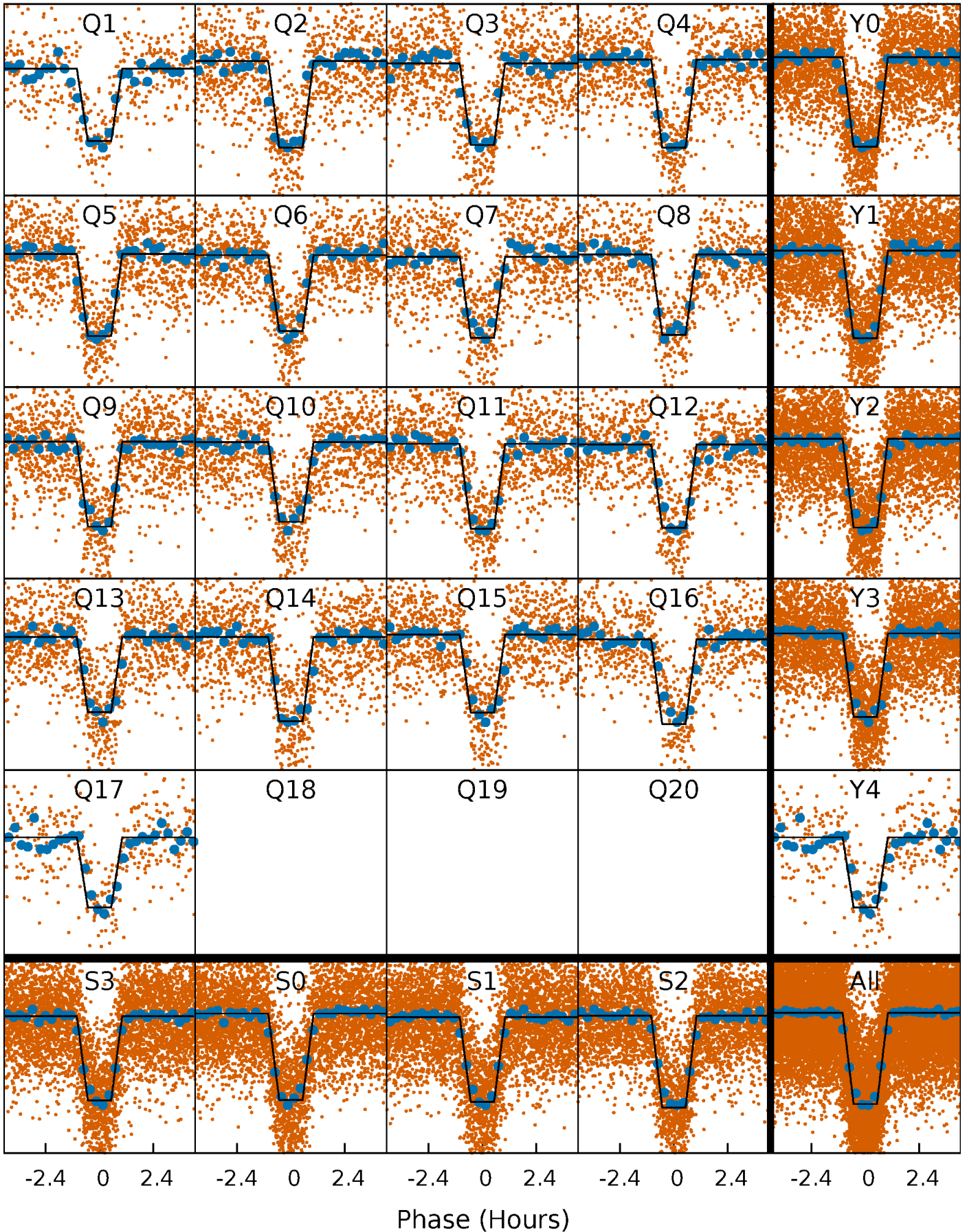
DV Quarter-Phased Transit Curves

TCE 010265898-01 P= 1.260238 Days $T_0=132.610442$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

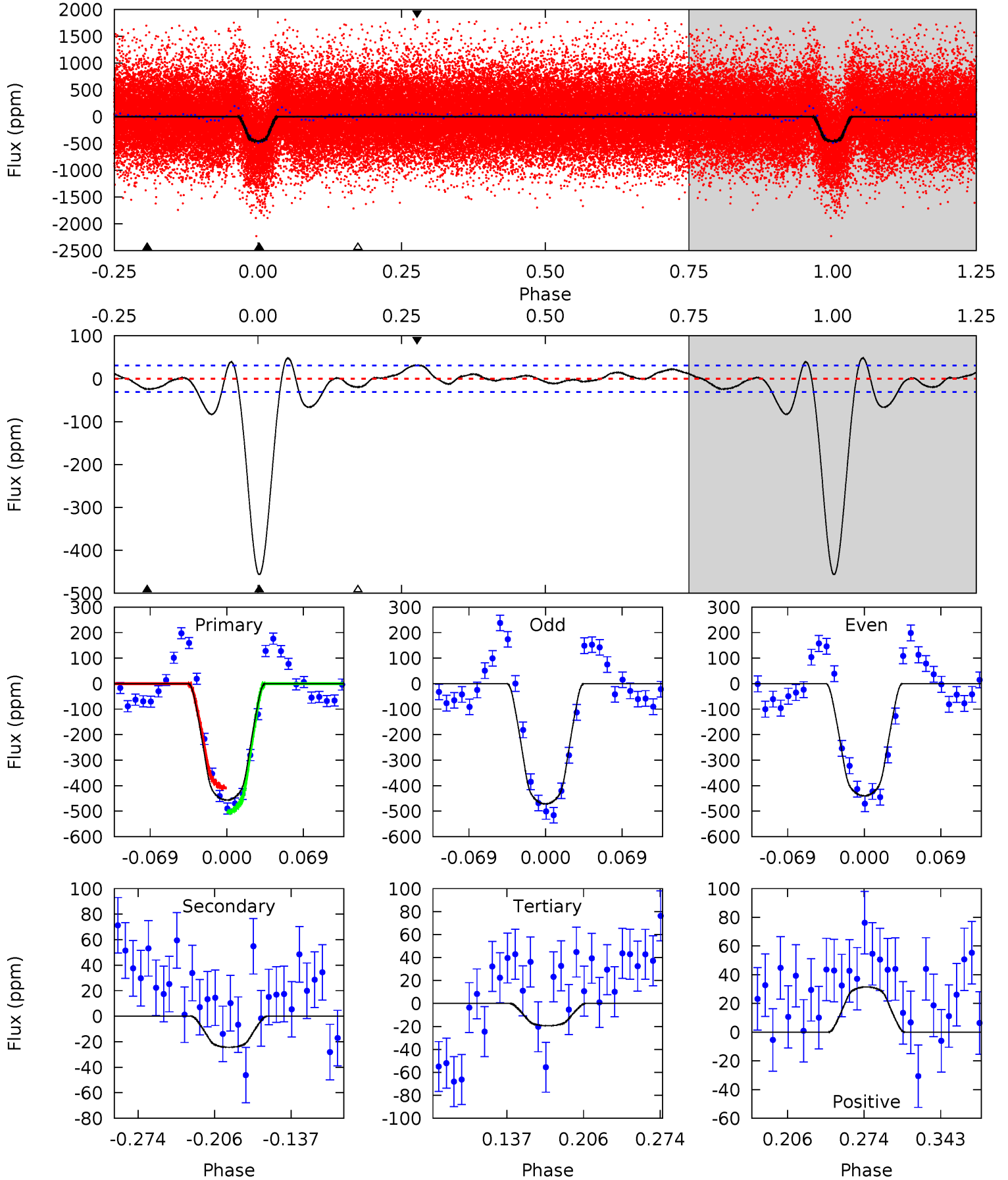
TCE 010265898-01 P= 1.260246 Days $T_0=132.608696$ (BKJD)



DV Model-Shift Uniqueness Test

010265898-01, P = 1.260238 Days, E = 131.350204 Days

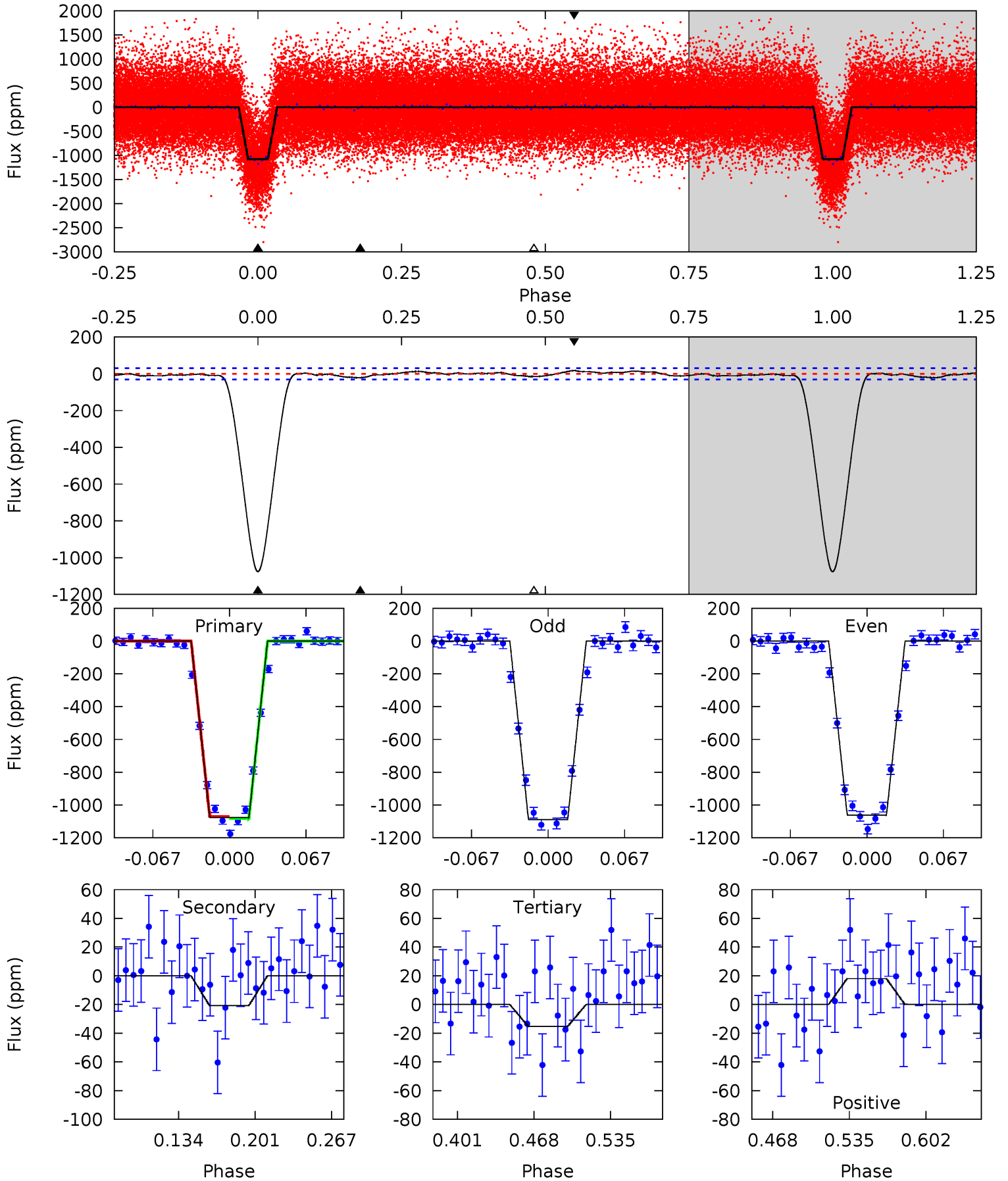
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
68.5	3.66	2.92	4.73	4.64	1.82	3.43	65.6	63.8	0.74	-1.07	2.39	1.00	0.10	7.17



Alt Model-Shift Uniqueness Test

010265898-01, P = 1.260246 Days, E = 131.348450 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
160.9	3.11	2.29	2.70	4.65	1.83	1.25	158.6	158.2	0.81	0.41	2.02	0.99	0.02	0.86



Stellar Parameters For KIC 010265898

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5550^{+166}_{-183}	$4.500^{+0.046}_{-0.184}$	$0.460^{+0.050}_{-0.300}$	$0.954^{+0.252}_{-0.079}$	$1.050^{+0.075}_{-0.113}$	$1.702^{+0.304}_{-0.816}$
	+3%/-3%	+1%/-4%	+11%/-65%	+26%/-8%	+7%/-11%	+18%/-48%
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 010265898-01 / KOI 0732.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-24 ± 7	$2.60^{+0.44}_{-0.39}$	2233^{+137}_{-104}	2952^{+251}_{-245}	$1.021^{+0.508}_{-0.367}$
Alt.	-21 ± 7	$3.59^{+0.54}_{-0.46}$	2231^{+136}_{-102}	2444^{+271}_{-4276}	$0.458^{+0.241}_{-0.168}$

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 $A_{obs} \gg 1.0$

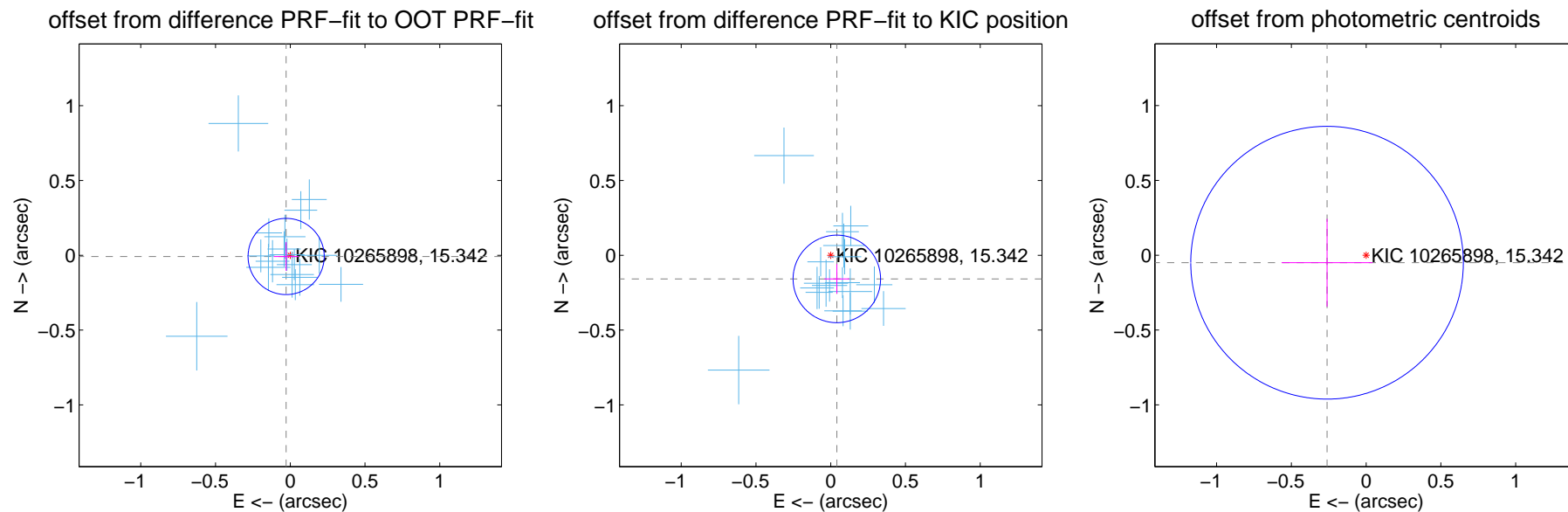
DV Centroid Data

Supplemental centroid analysis for 010265898-01. Kepler magnitude: 15.34. Transit SNR 47.31

There are 17 quarters with good PRF difference image offsets

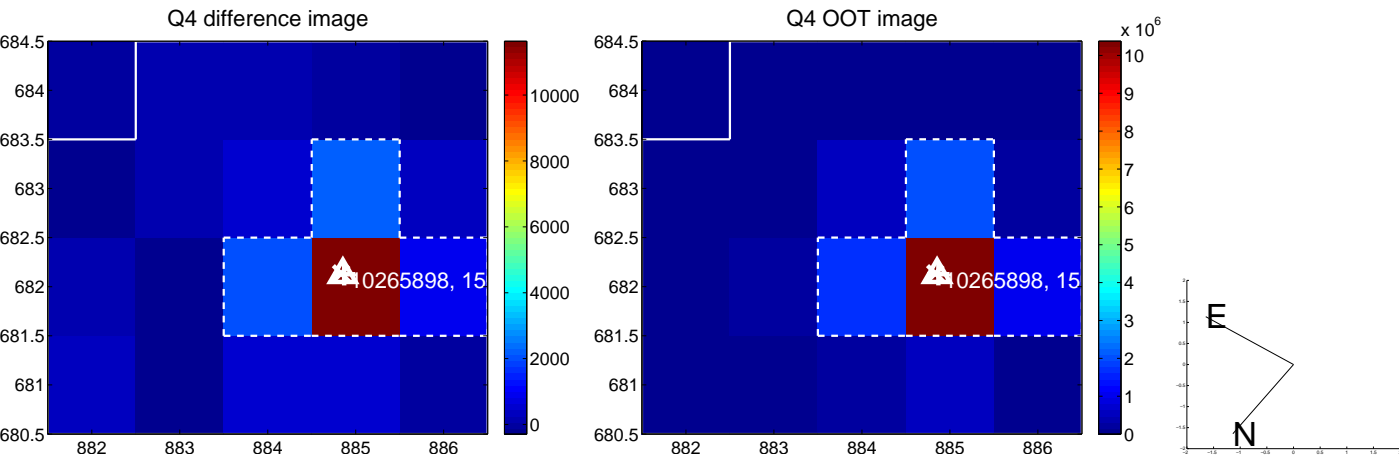
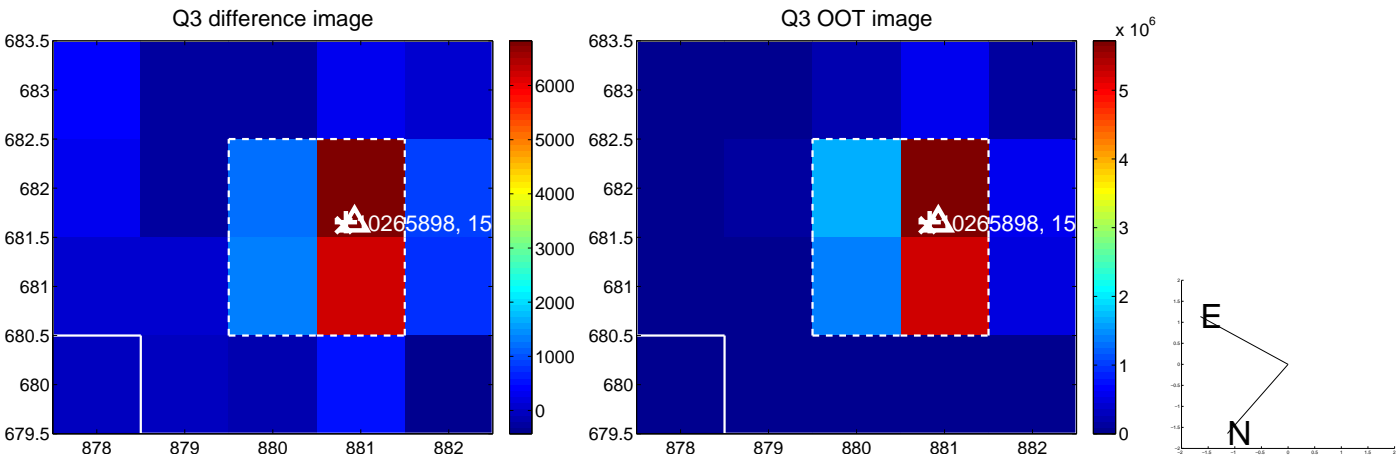
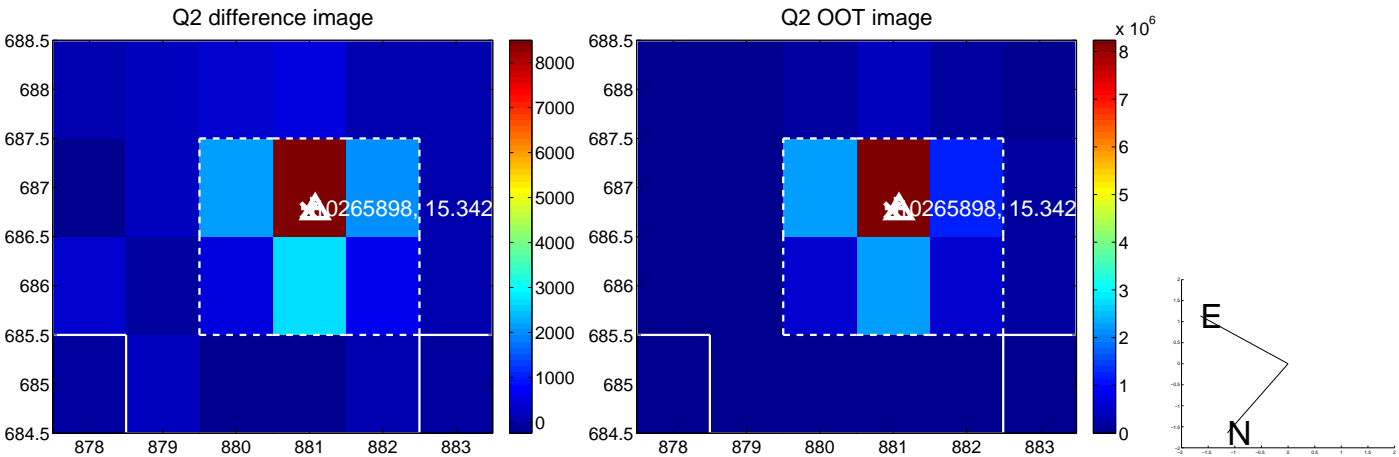
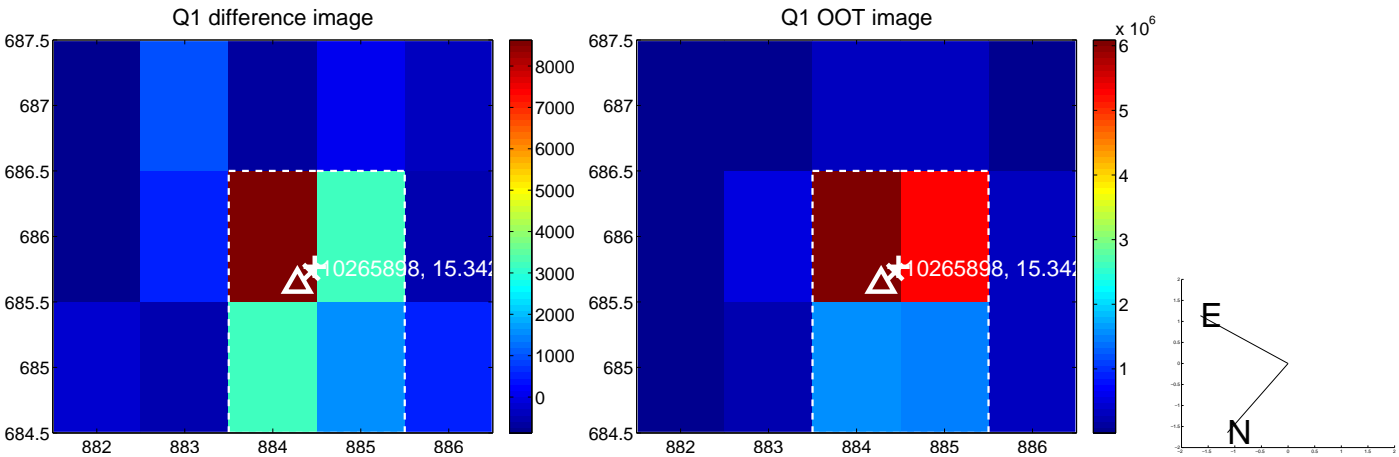
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.029 ± 0.085	0.34	0.028 ± 0.083	-0.008 ± 0.096
PRF-fit source offset from KIC position	0.163 ± 0.098	1.67	-0.041 ± 0.084	-0.158 ± 0.099
photometric centroid source offset	0.27 ± 0.30	0.88	0.26 ± 0.30	-0.05 ± 0.29

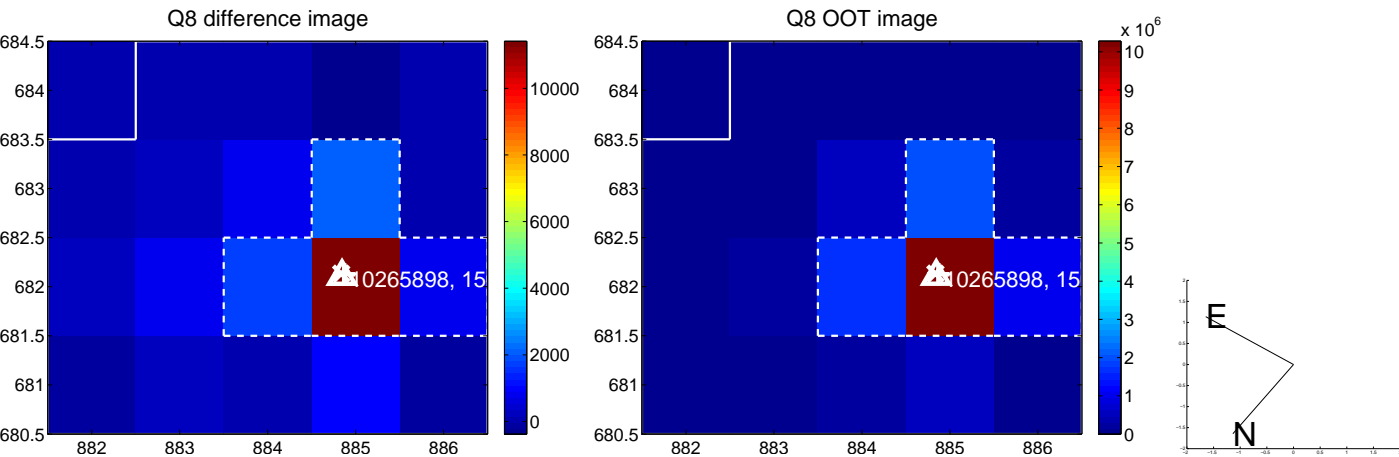
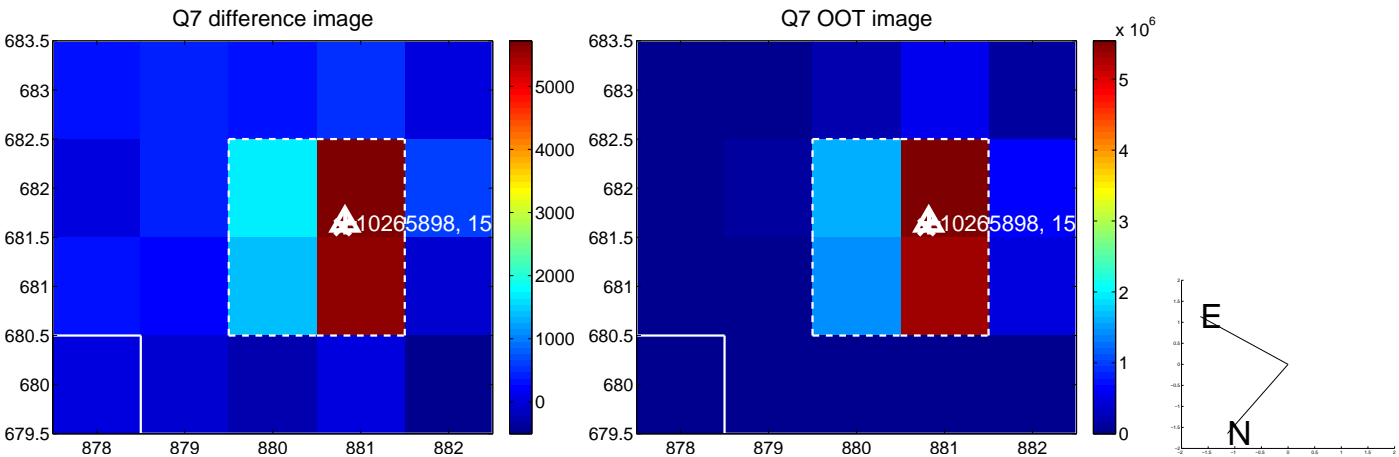
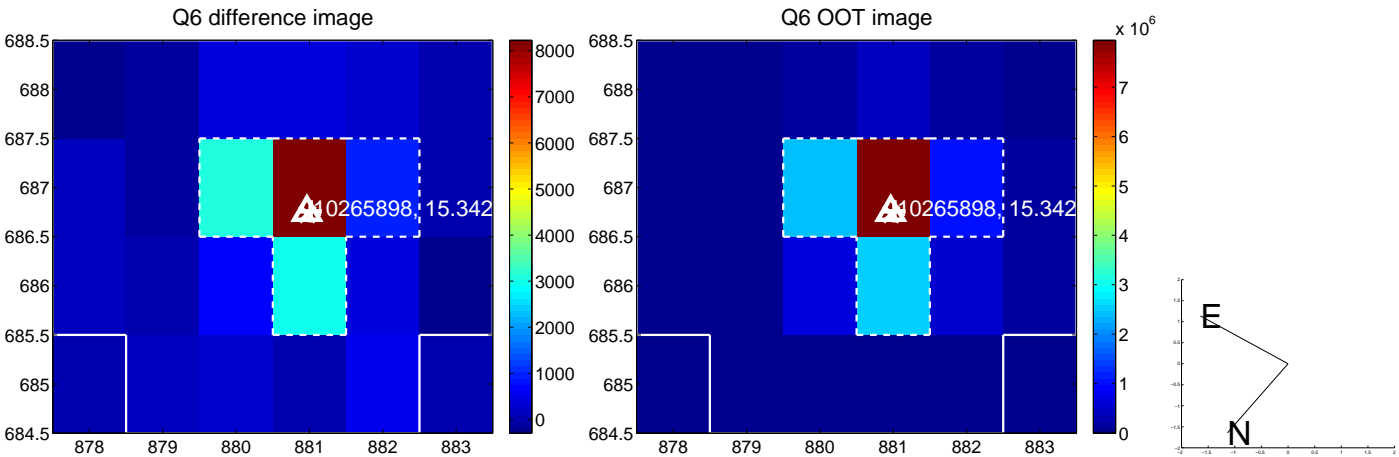
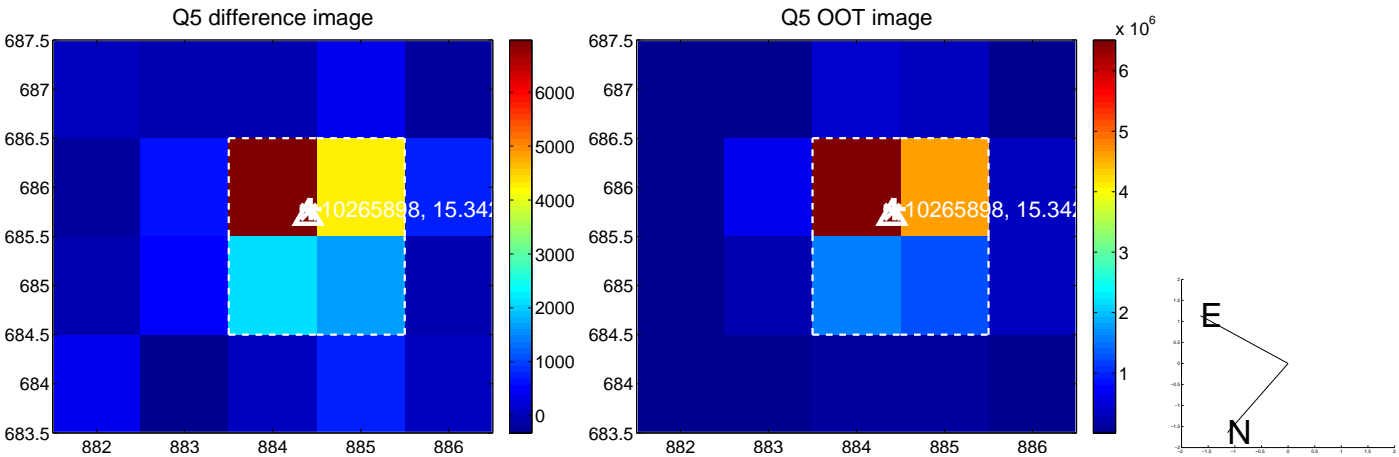


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

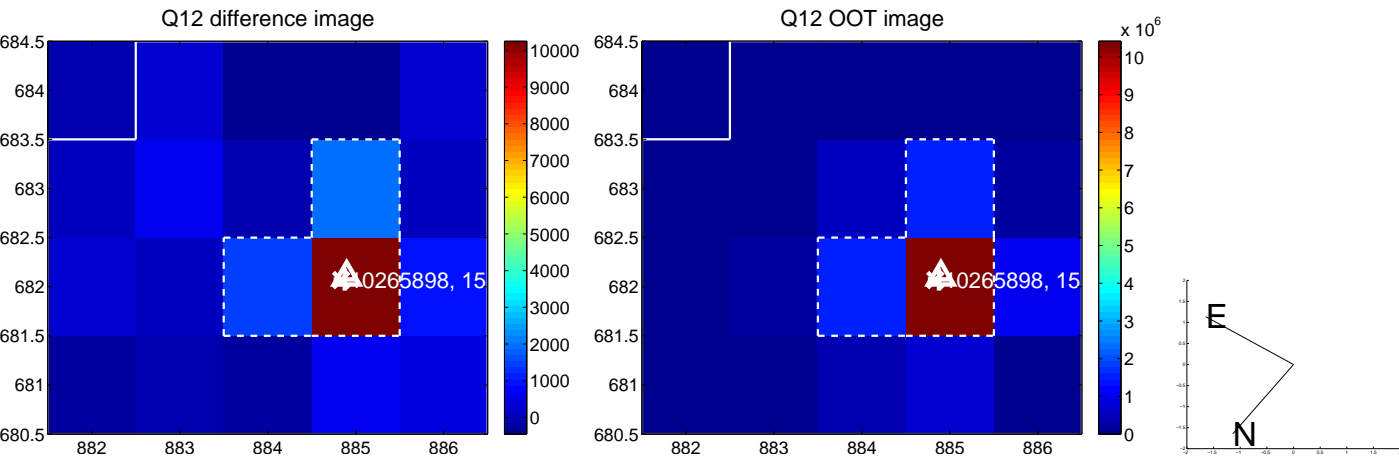
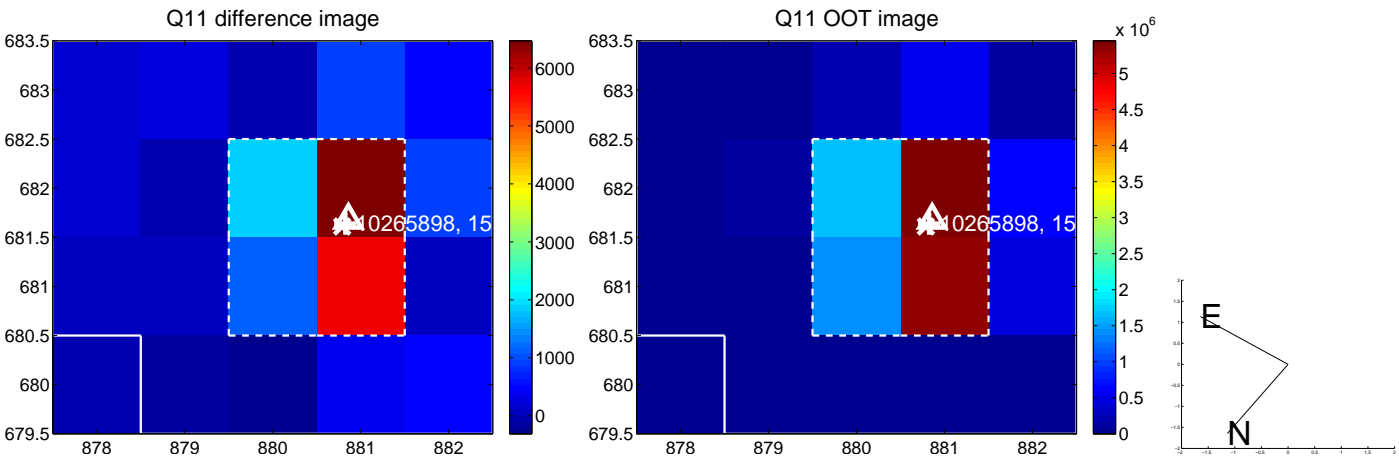
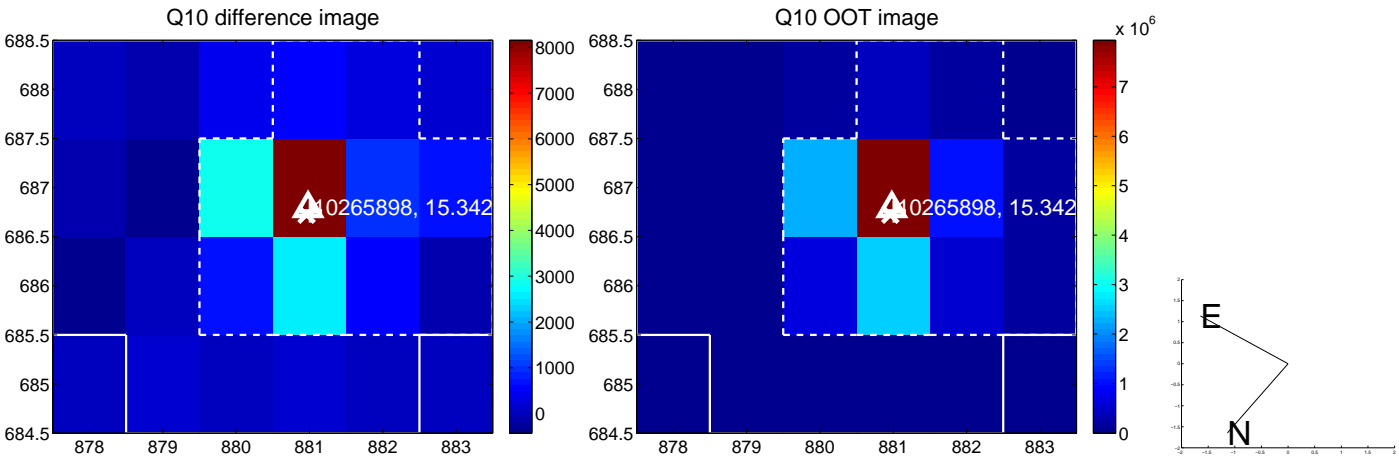
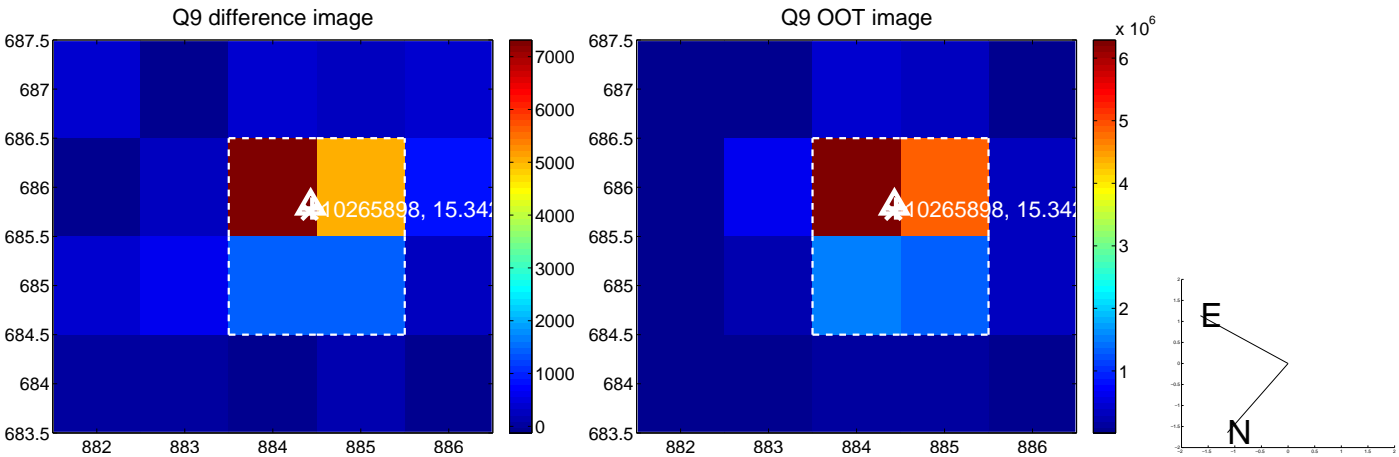
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



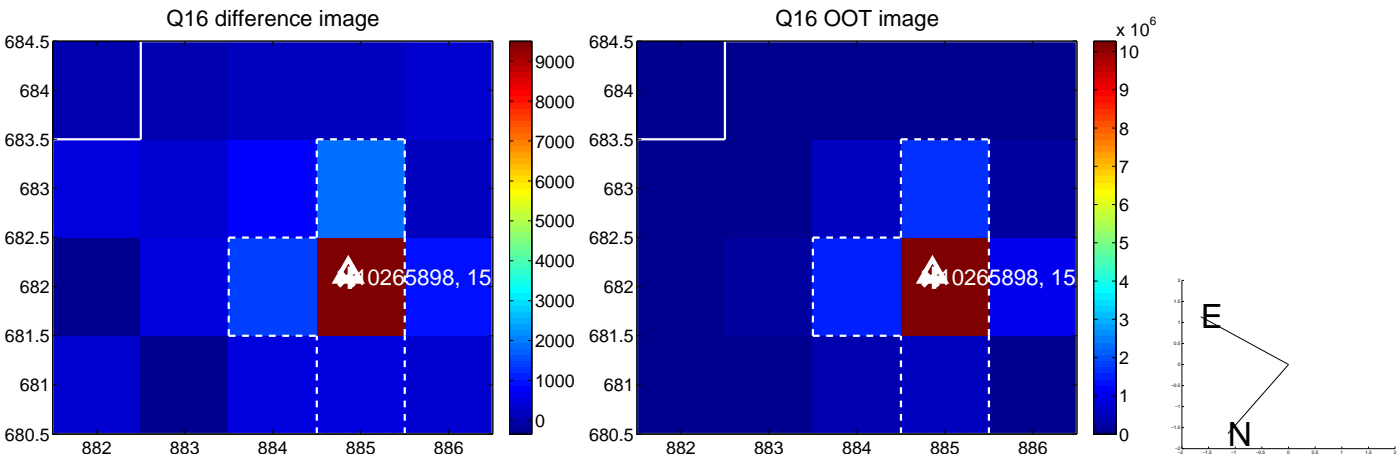
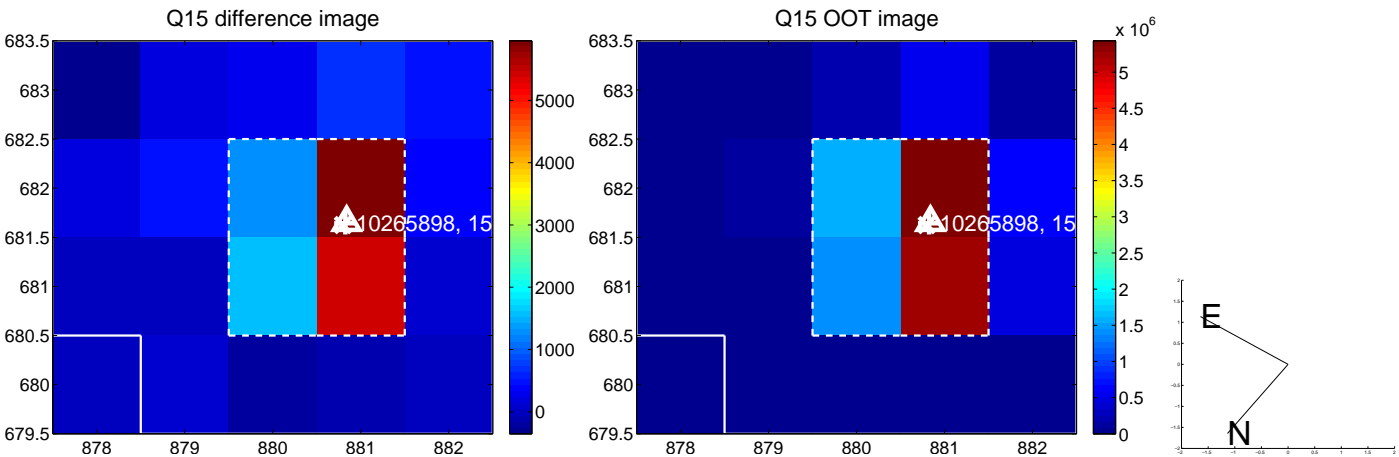
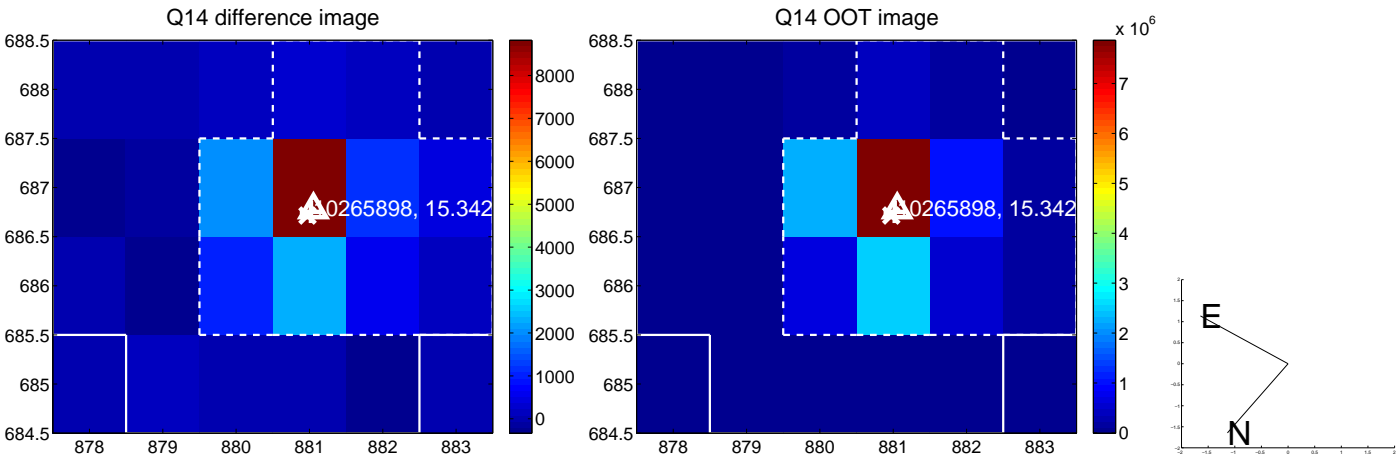
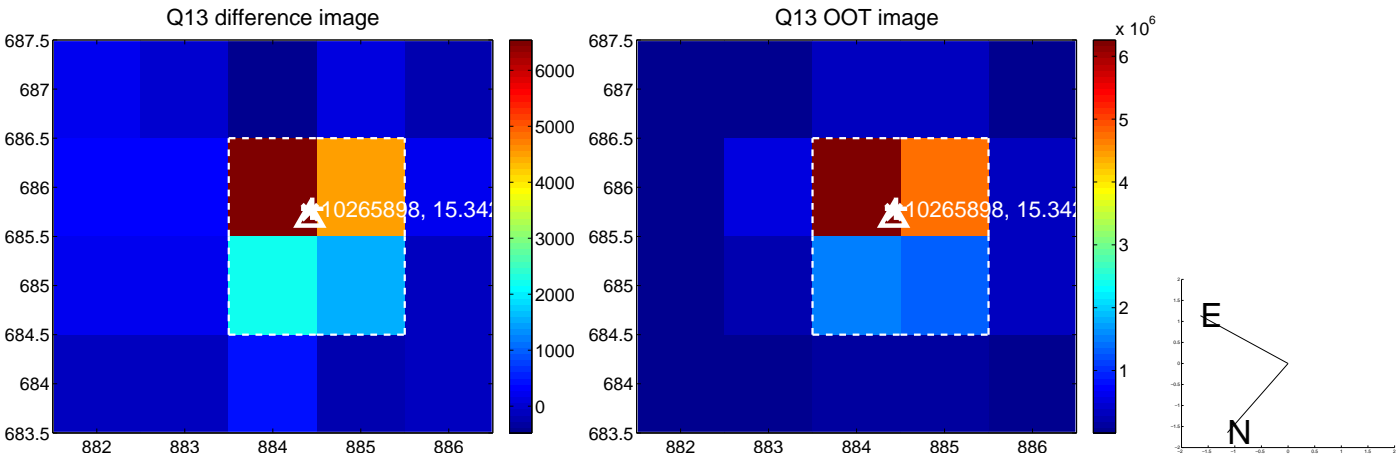
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



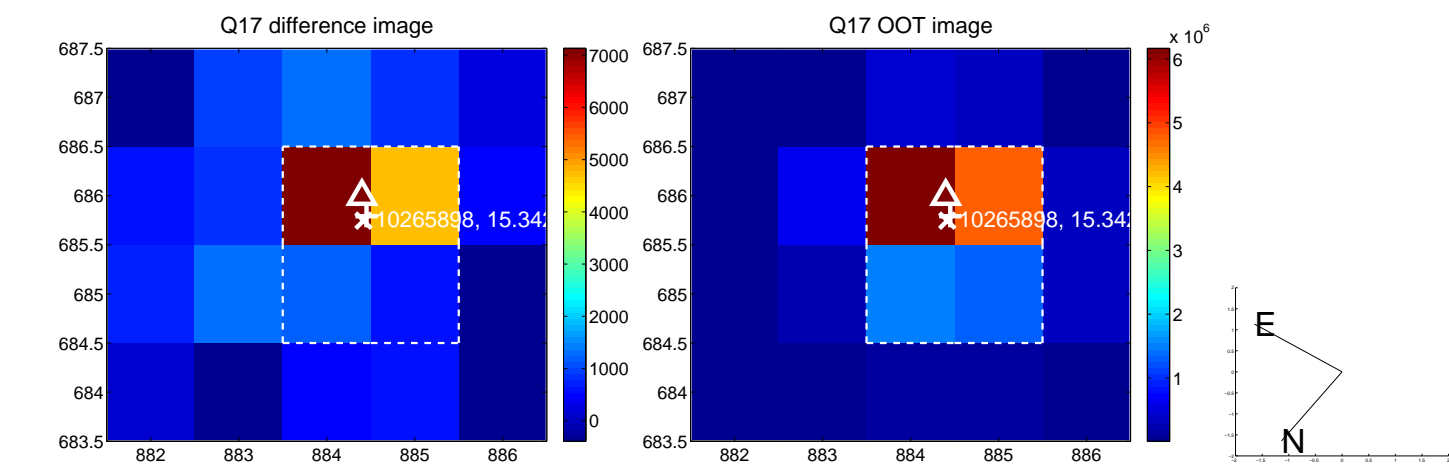
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



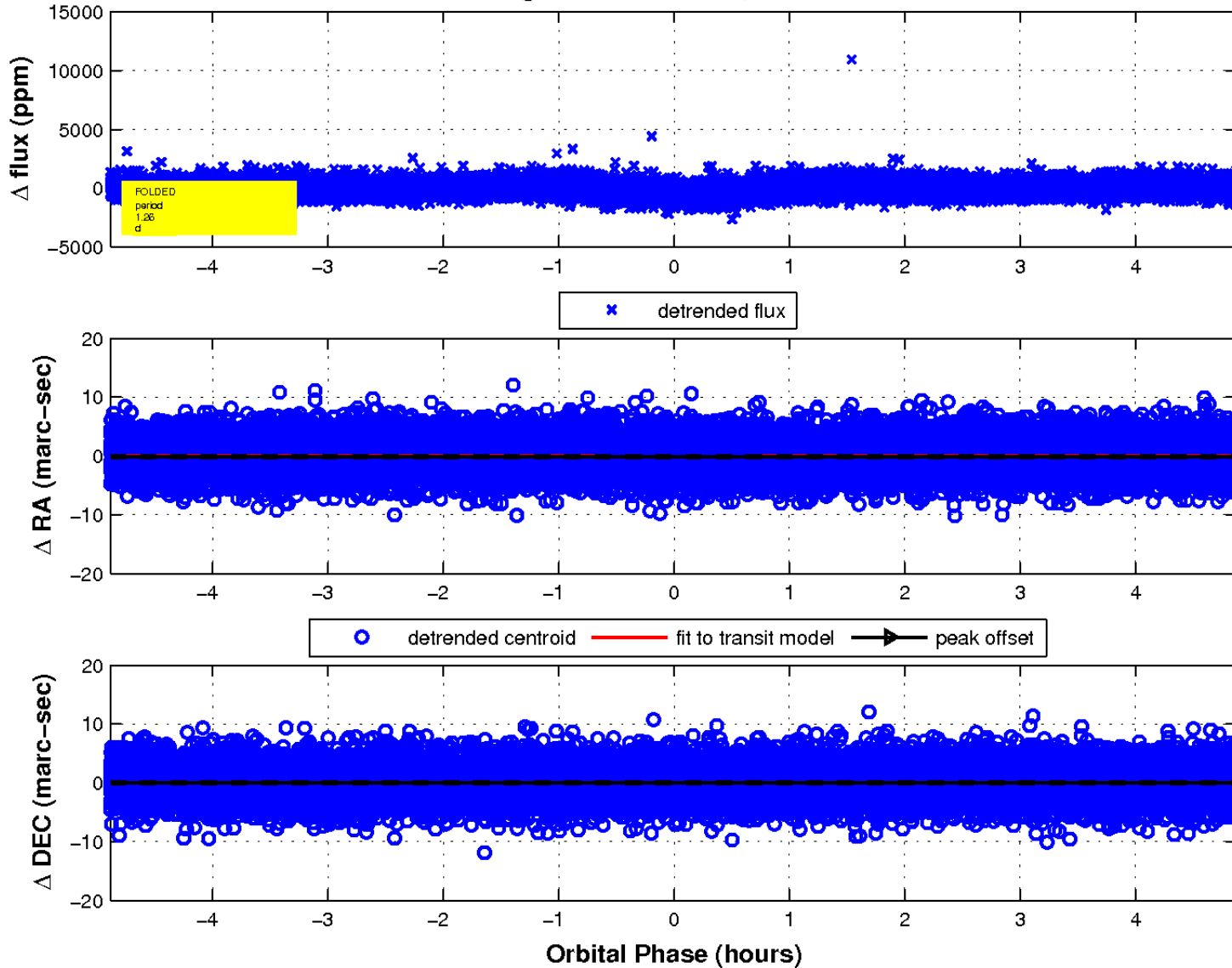
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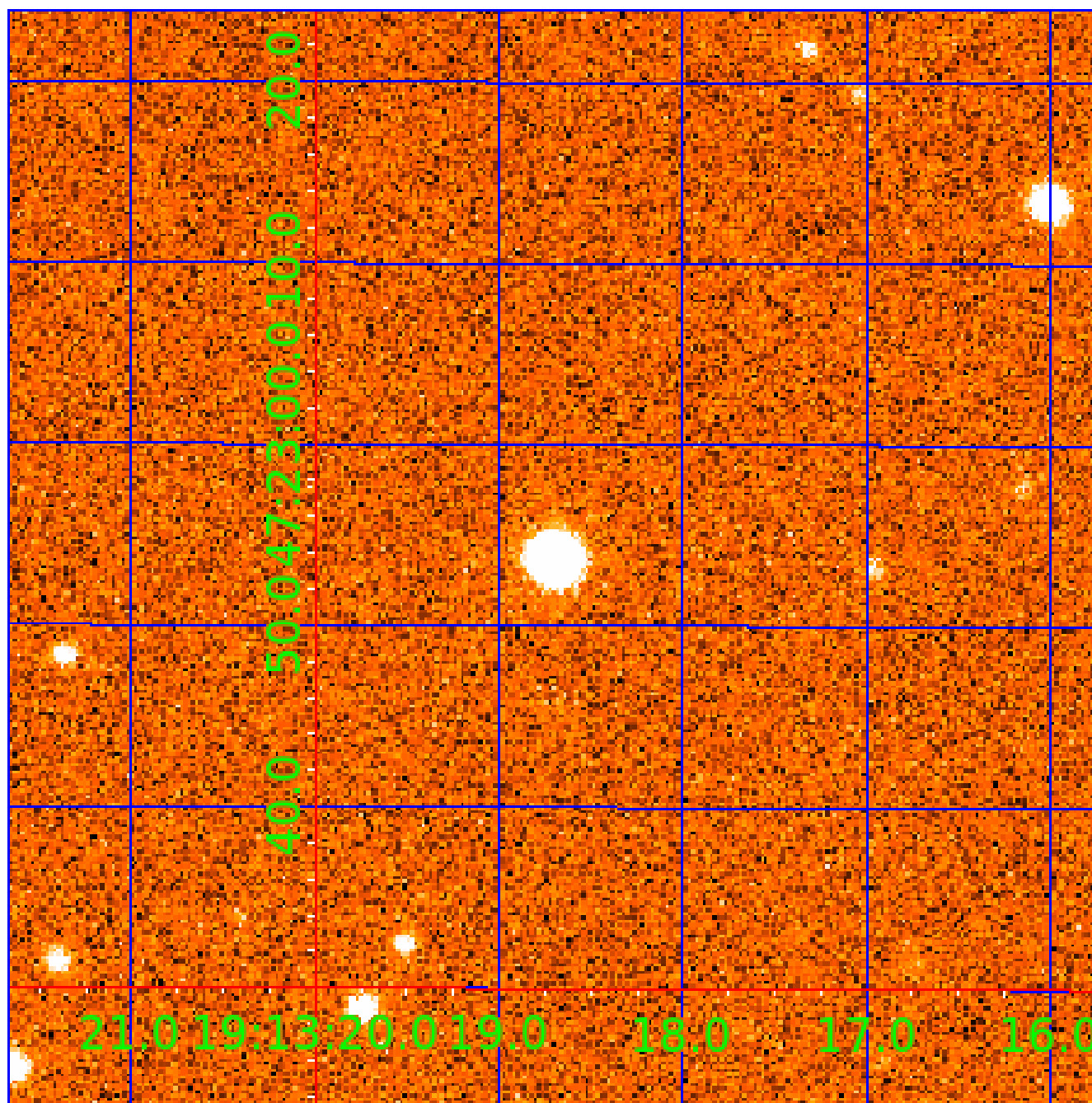


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 010265898

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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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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010265898-02	OBS	PC	0.99	0	0	0	0	CENT_FEW_DIFFS
010265898-03	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.

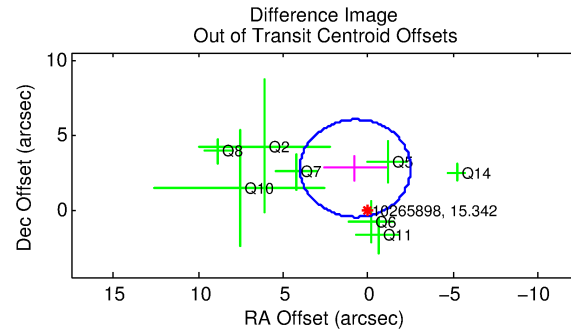
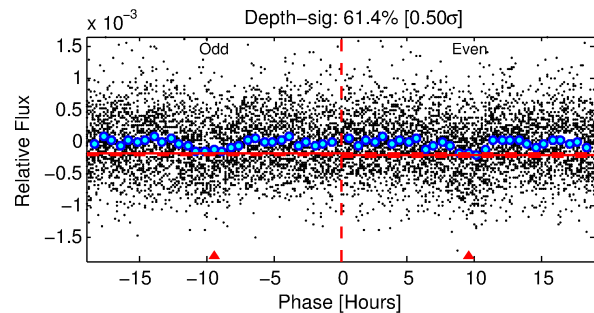
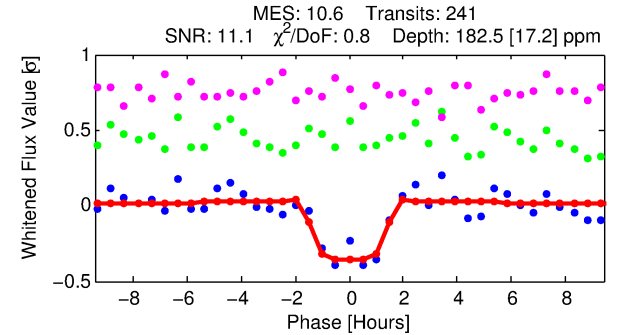
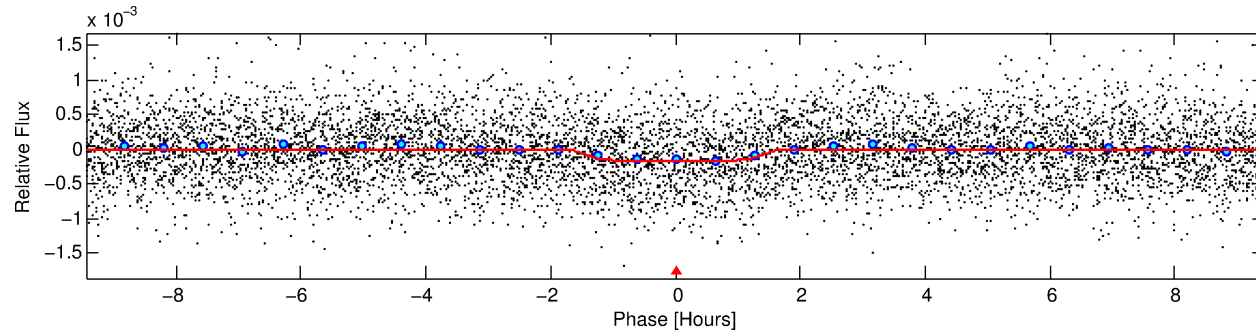
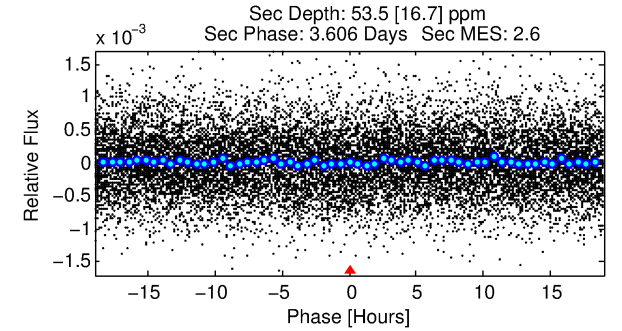
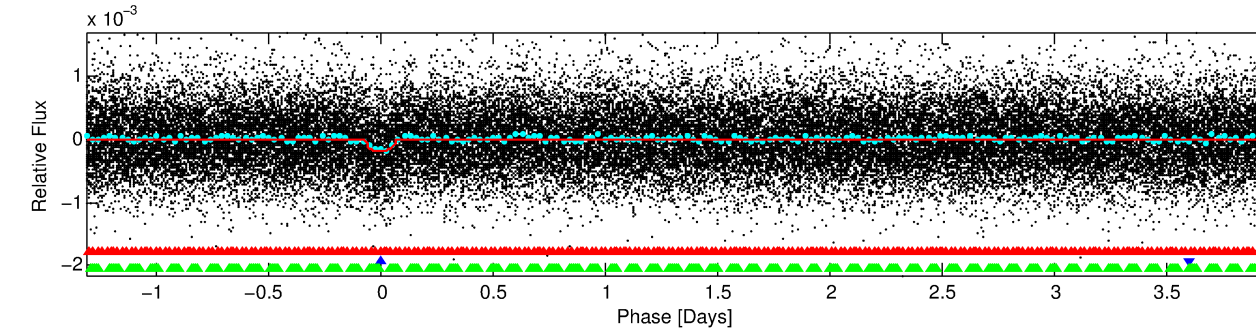
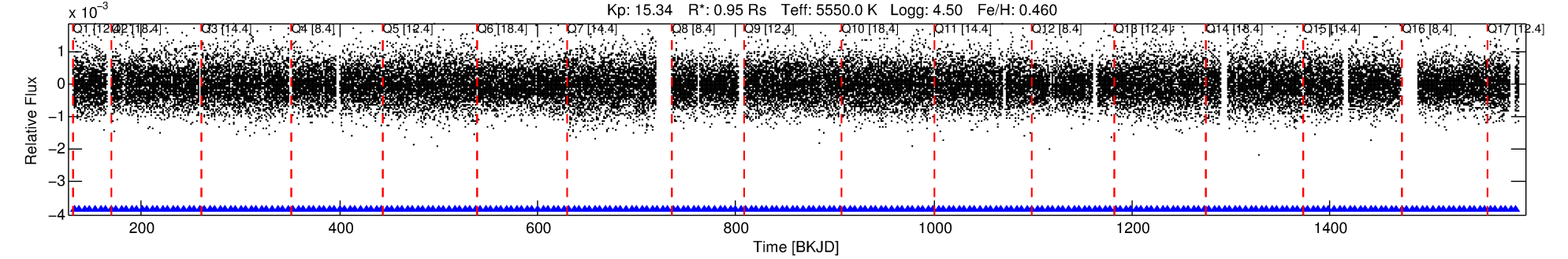
Ephemeris Match Information For 010265898-02

No Significant Match Found

DV One-Page Summary

KIC: 10265898 Candidate: 2 of 3 Period: 5.255 d

KOI: K00732.03 Corr: 0.949



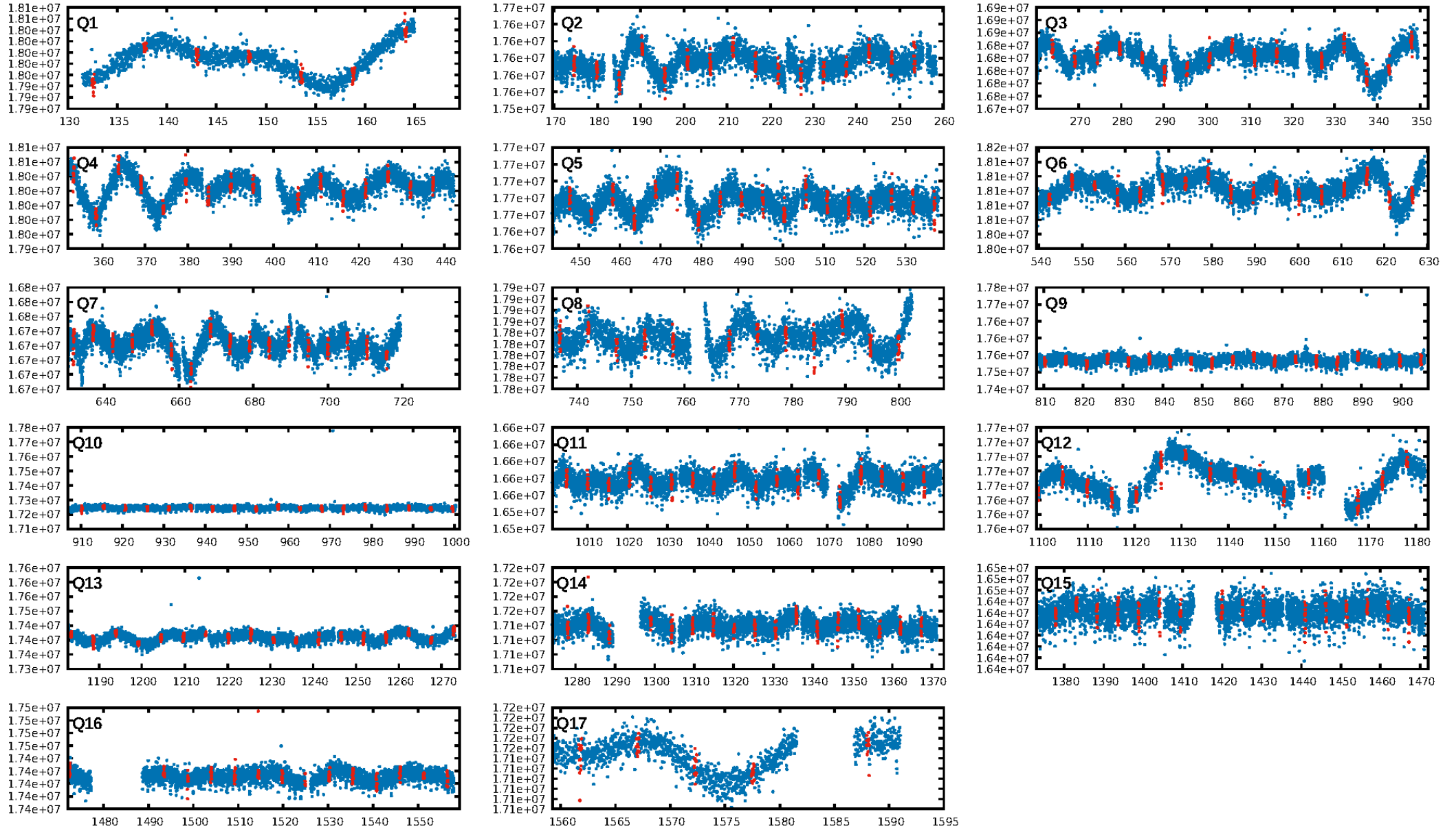
DV Fit Results:

Period = 5.25456 [0.00003] d
Epoch = 132.5461 [0.0047] BKJD
Rp/R* = 0.0146 [0.0091]
a/R* = 6.46 [16.66]
b = 0.88 [0.68]
Seff = 213.99 [76.61]
Teff = 975 [87] K
Rp = 1.53 [1.03] Re
a = 0.0601 [0.0136] AU
Ag = 45.78 [60.74] [0.74σ]
Teffp = 3922 [1266] K [2.32σ]

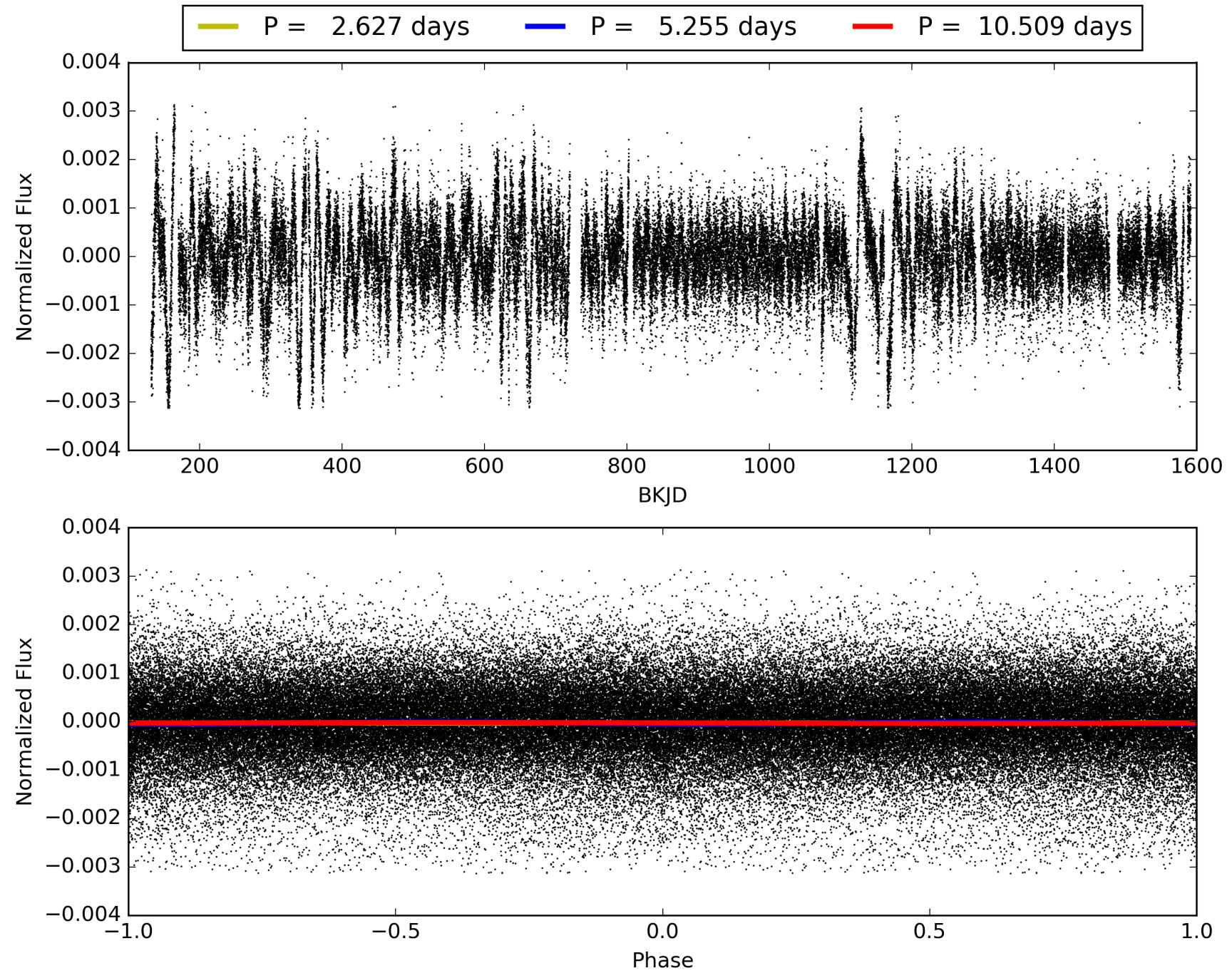
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [12.73σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.46e-26
RollingBand-fgt: 1.00 [229/229]
GhostDiagnostic-chr: 1.31
Centroid-sig: 21.8%
Centroid-so: 0.947 arcsec [0.85σ]
OotOffset-rm: 2.848 arcsec [2.62σ]
KicOffset-rm: 2.632 arcsec [2.58σ]
OotOffset-st: 4/2/1/1 [8]
KicOffset-st: 4/2/1/1 [8]
DiffImageQuality-fgm: 0.25 [2/8]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 010265898-02, PDC Light Curves

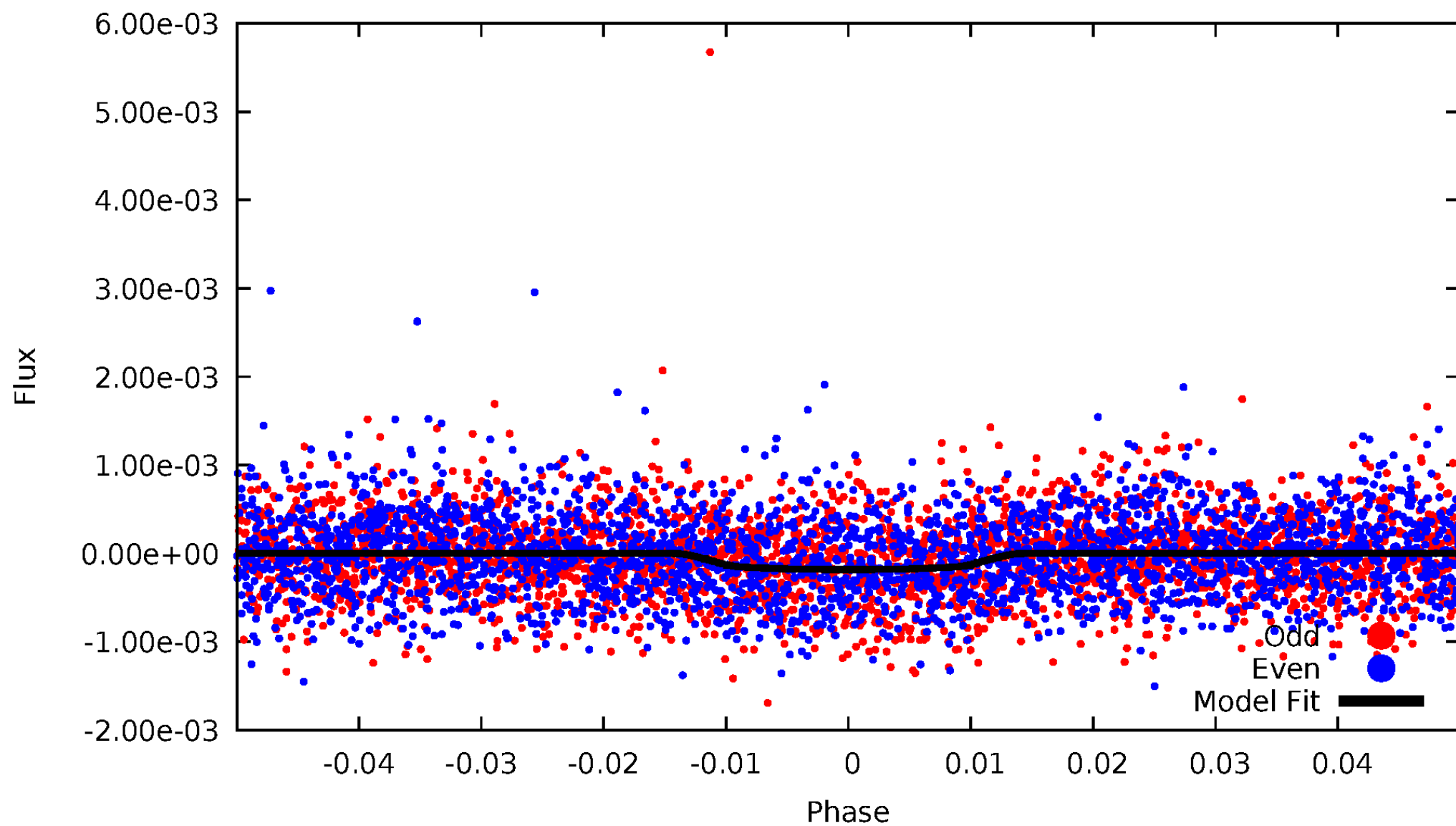


TCE 010265898-02



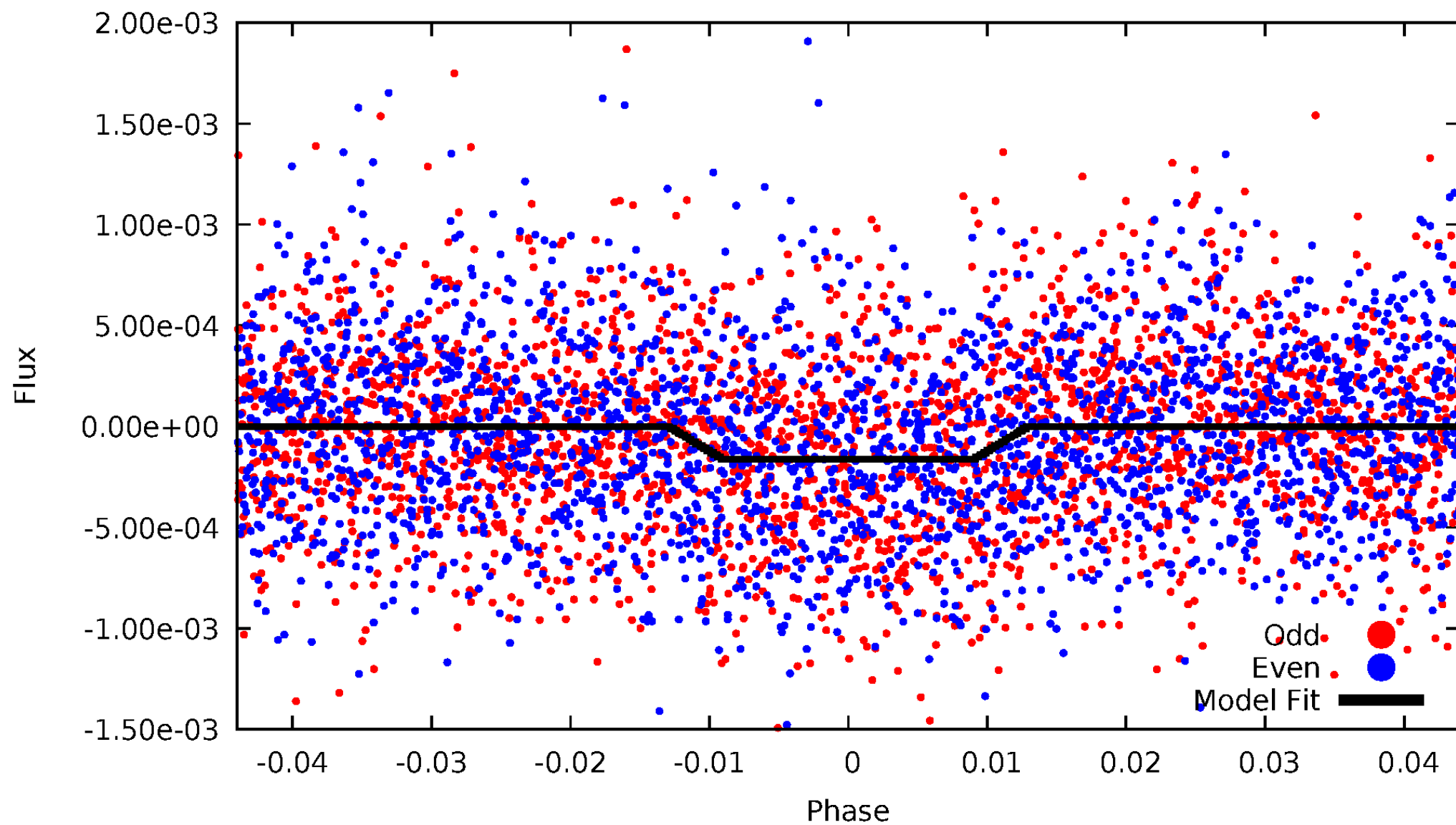
DV Odd/Even

TCE 010265898-02



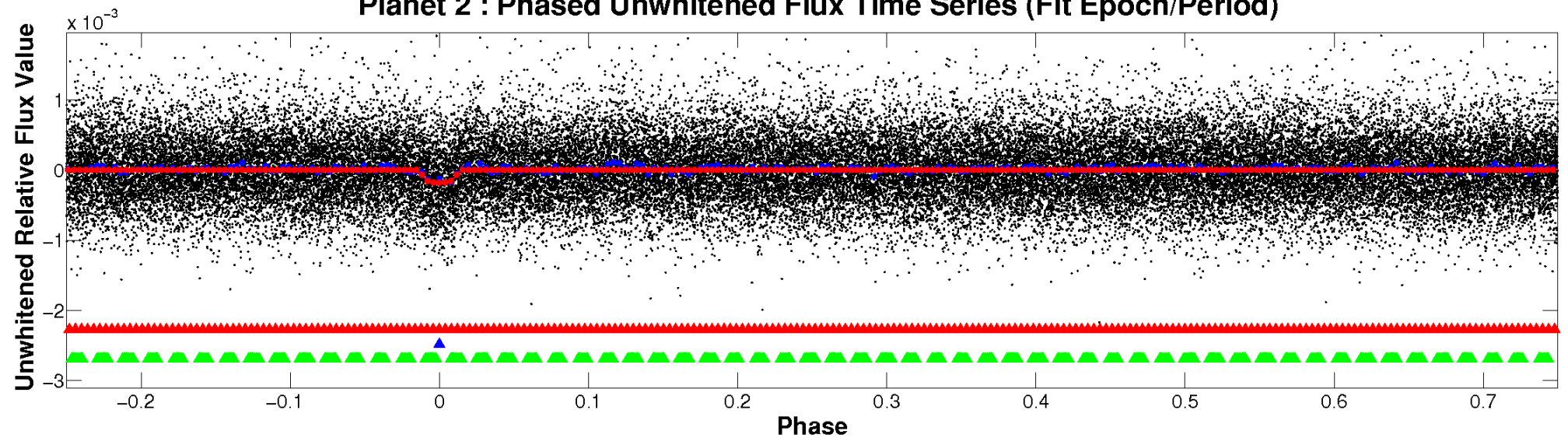
ALT Odd/Even

TCE 010265898-02

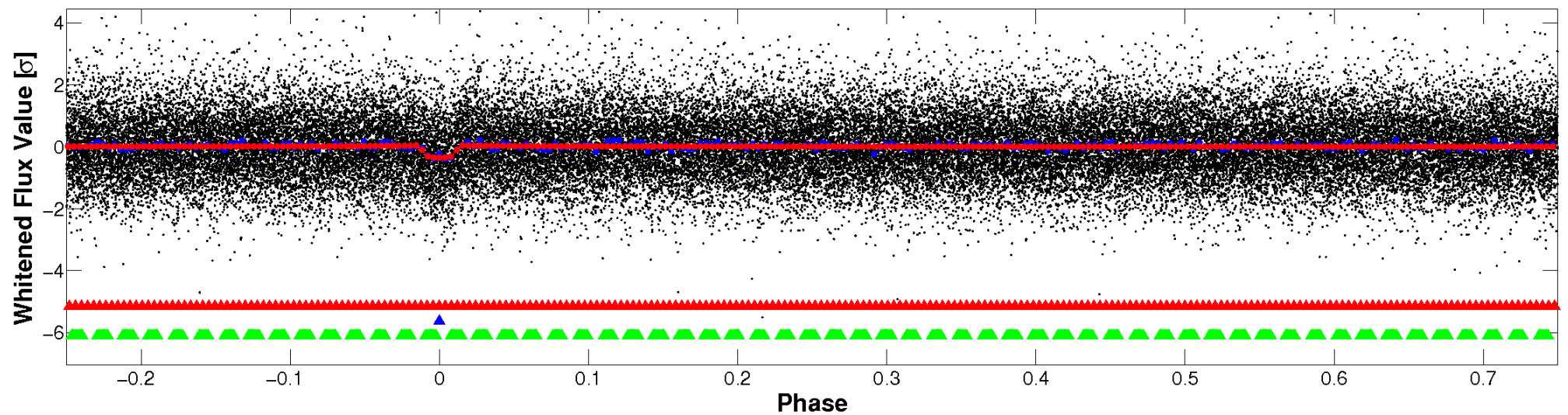


Non-Whitened Vs. Whitened Light Curve

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

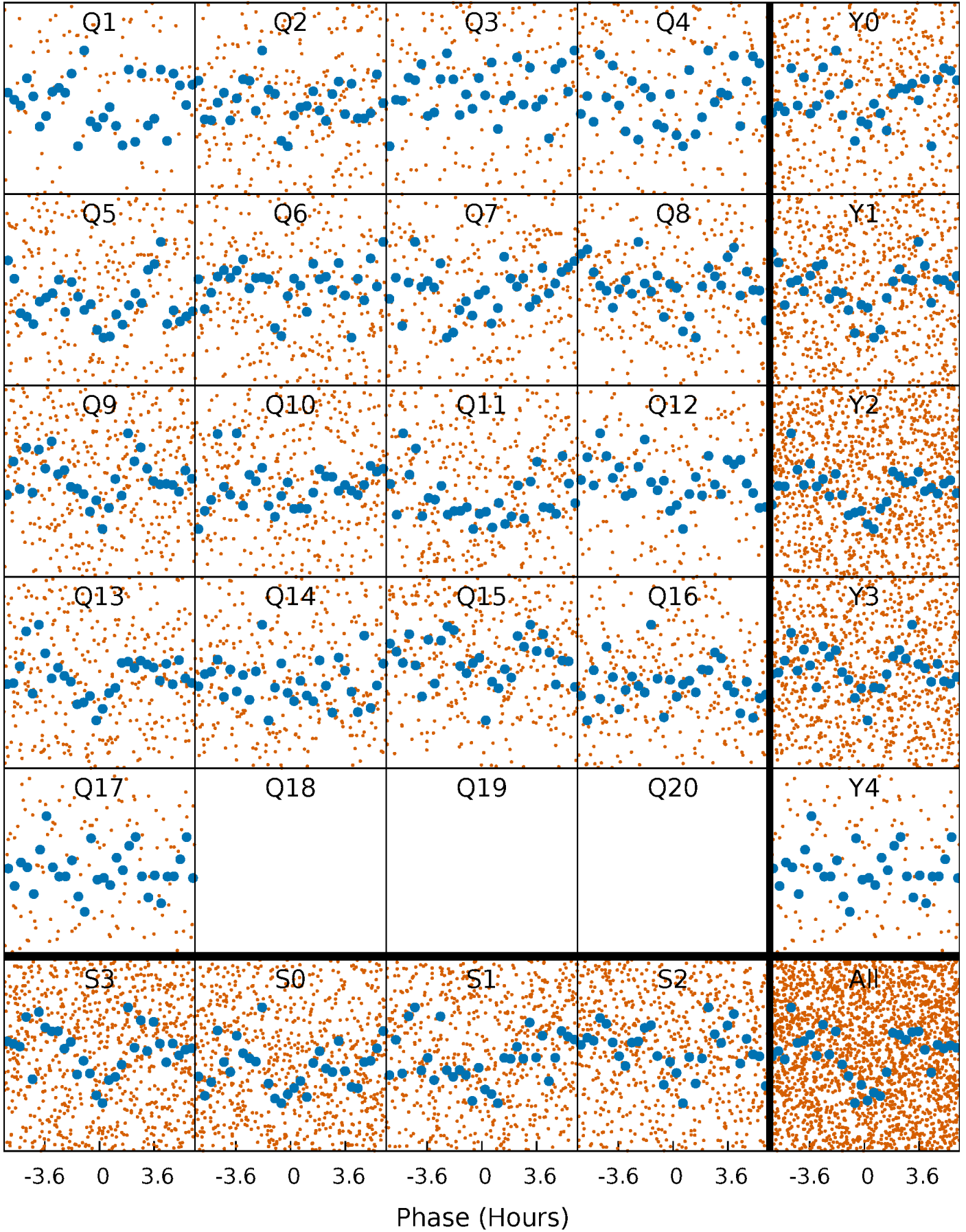


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



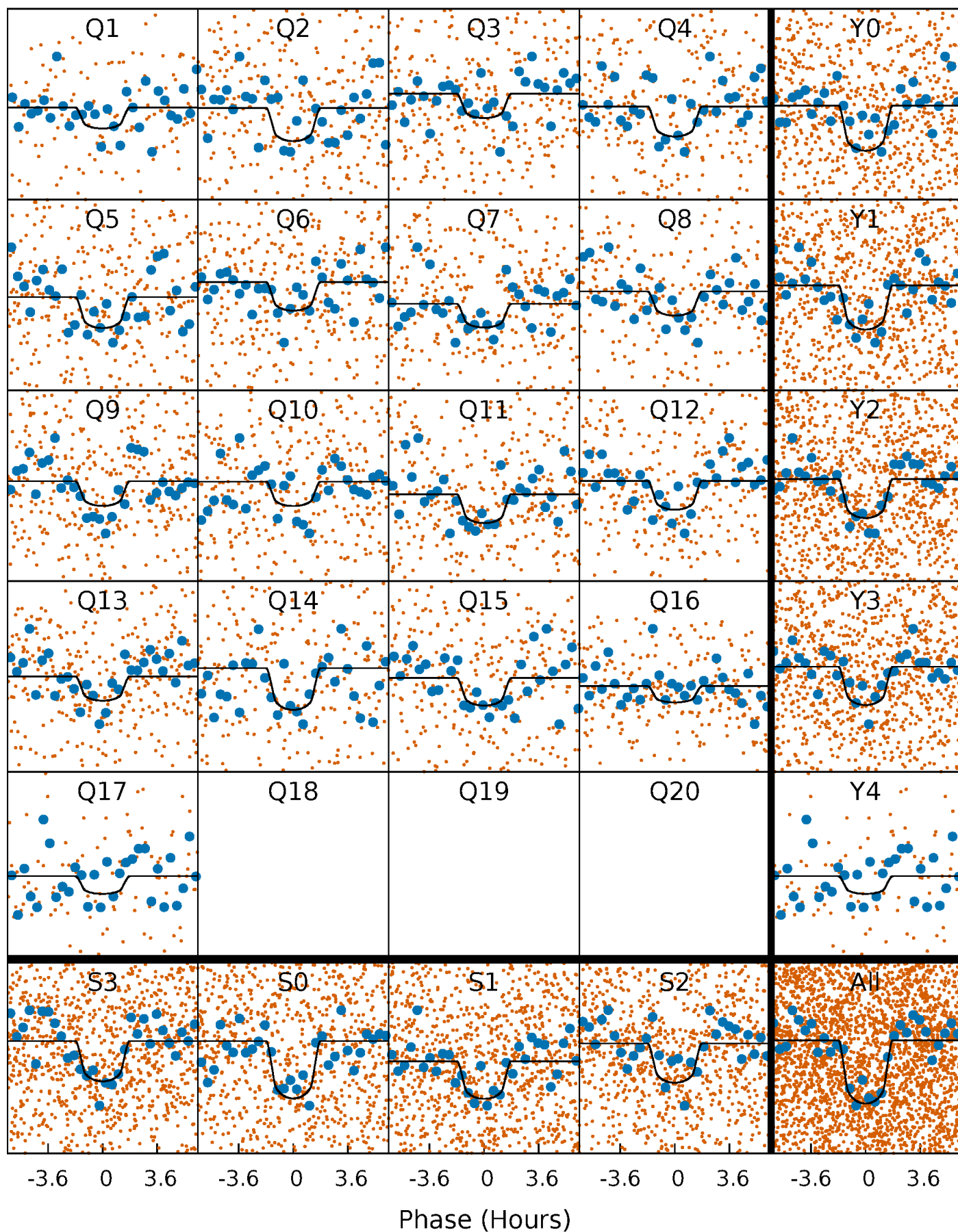
PDC Quarter-Phased Transit Curves

TCE 010265898-02 P= 5.254557 Days $T_0=132.546104$ (BKJD)



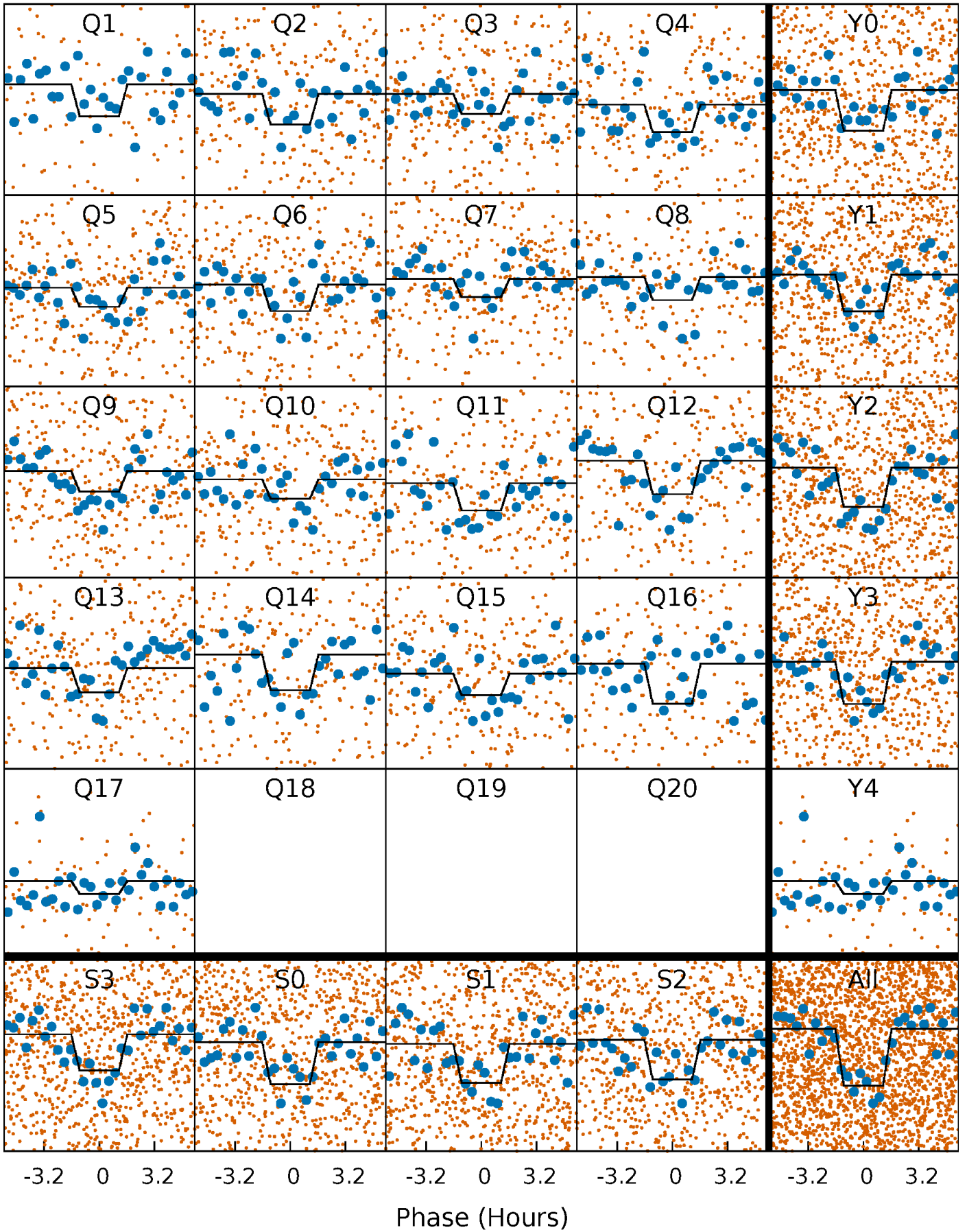
DV Quarter-Phased Transit Curves

TCE 010265898-02 $P = 5.254557$ Days $T_0 = 132.546104$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

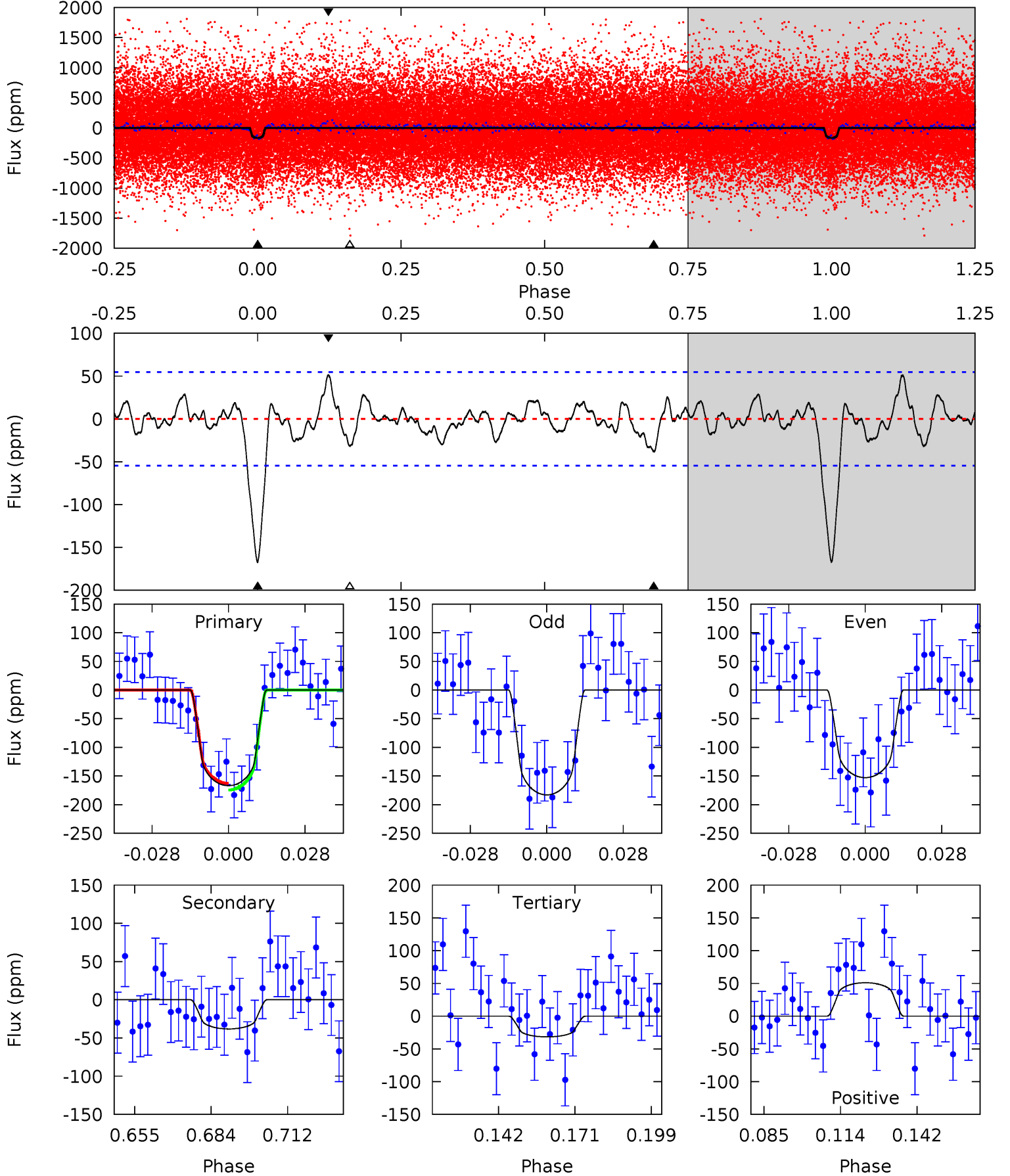
TCE 010265898-02 P= 5.254496 Days $T_0=132.553105$ (BKJD)



DV Model-Shift Uniqueness Test

010265898-02, P = 5.254557 Days, E = 127.291547 Days

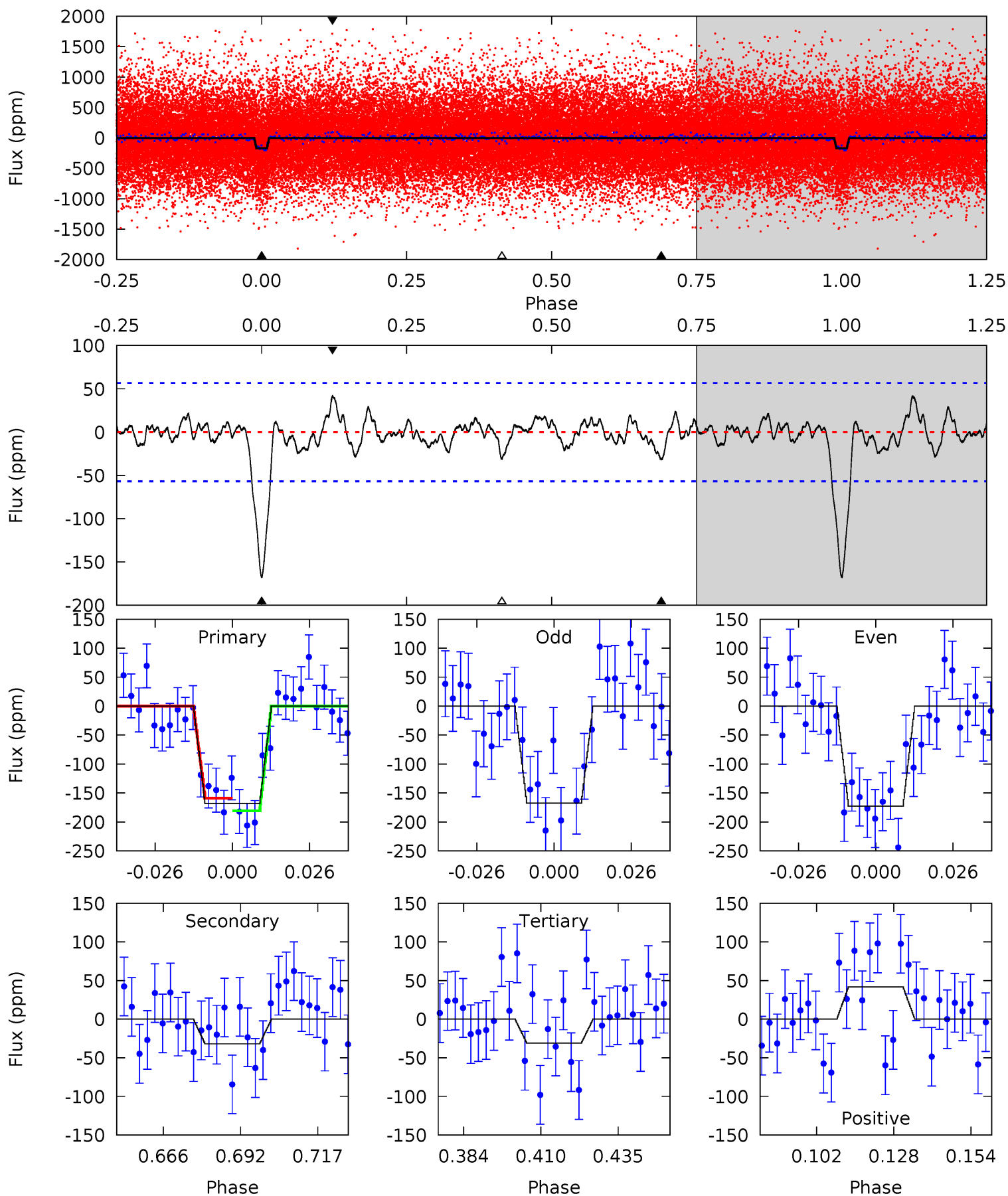
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.7	3.37	2.80	4.50	4.82	2.19	1.19	11.9	10.2	0.57	-1.13	1.33	0.84	0.23	0.51



Alt Model-Shift Uniqueness Test

010265898-02, P = 5.254496 Days, E = 127.298609 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.3	2.73	2.64	3.56	4.84	2.23	0.99	11.7	10.8	0.09	-0.84	0.22	1.01	0.20	0.93



Stellar Parameters For KIC 010265898

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5550^{+166}_{-183}	$4.500^{+0.046}_{-0.184}$	$0.460^{+0.050}_{-0.300}$	$0.954^{+0.252}_{-0.079}$	$1.050^{+0.075}_{-0.113}$	$1.702^{+0.304}_{-0.816}$
	+3%/-3%	+1%/-4%	+11%/-65%	+26%/-8%	+7%/-11%	+18%/-48%
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 010265898-02 / KOI 0732.03

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-38 ± 11	$1.69^{+0.93}_{-0.87}$	1389^{+96}_{-67}	3824^{+1249}_{-558}	26^{+86}_{-16}
Alt.	-32 ± 12	$1.48^{+0.95}_{-0.83}$	1389^{+85}_{-69}	3877^{+1461}_{-654}	26^{+113}_{-18}

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

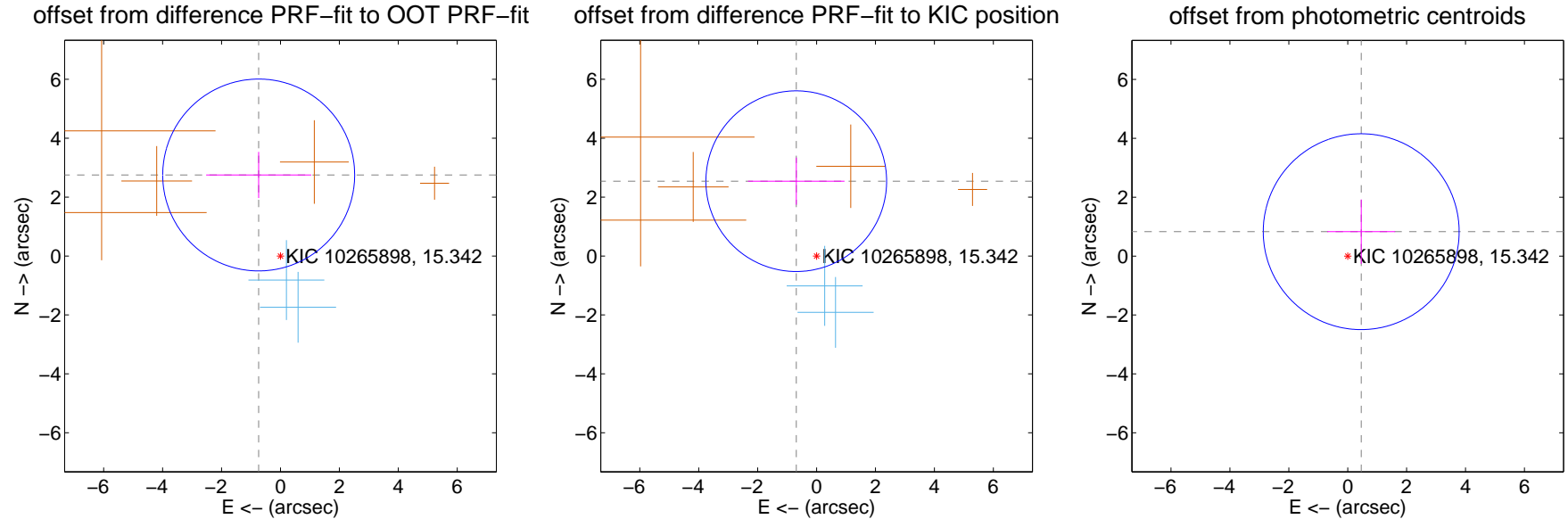
DV Centroid Data

Supplemental centroid analysis for 010265898-02. Kepler magnitude: 15.34. Transit SNR 11.13

There are 2 quarters with good PRF difference image offsets

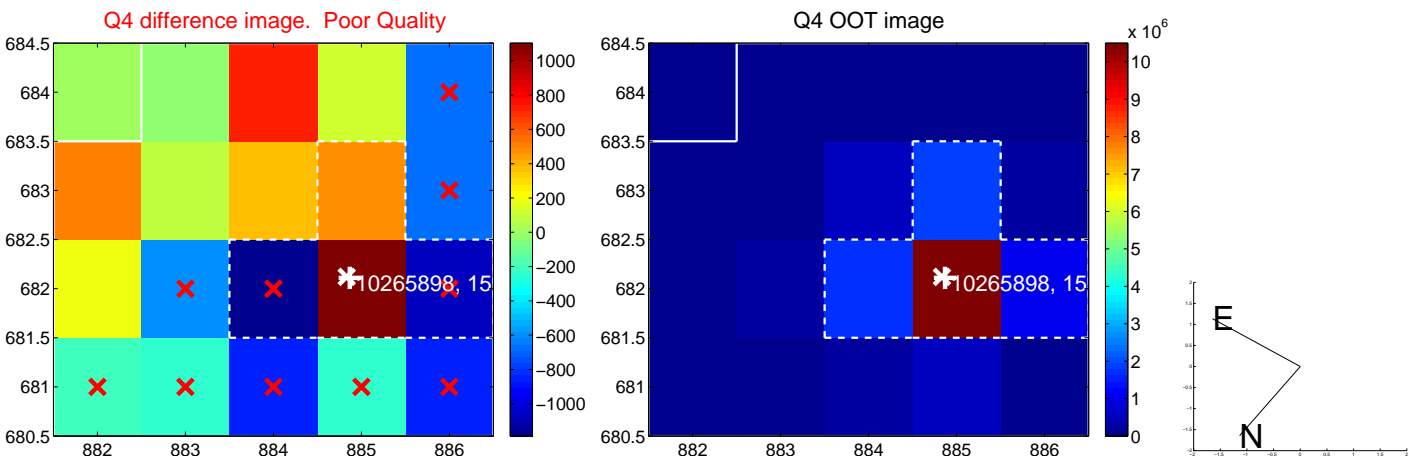
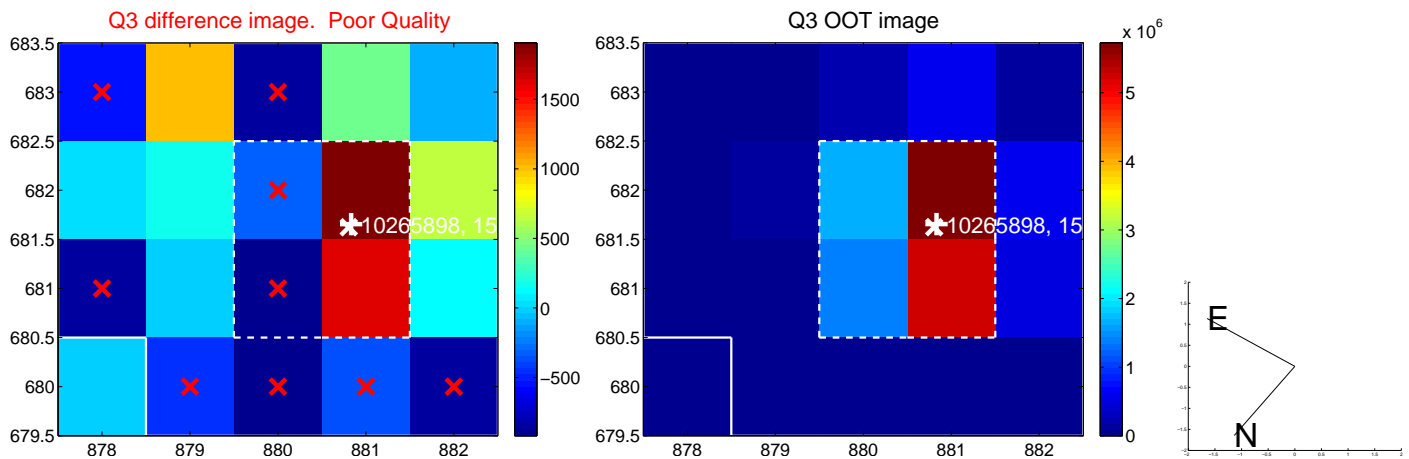
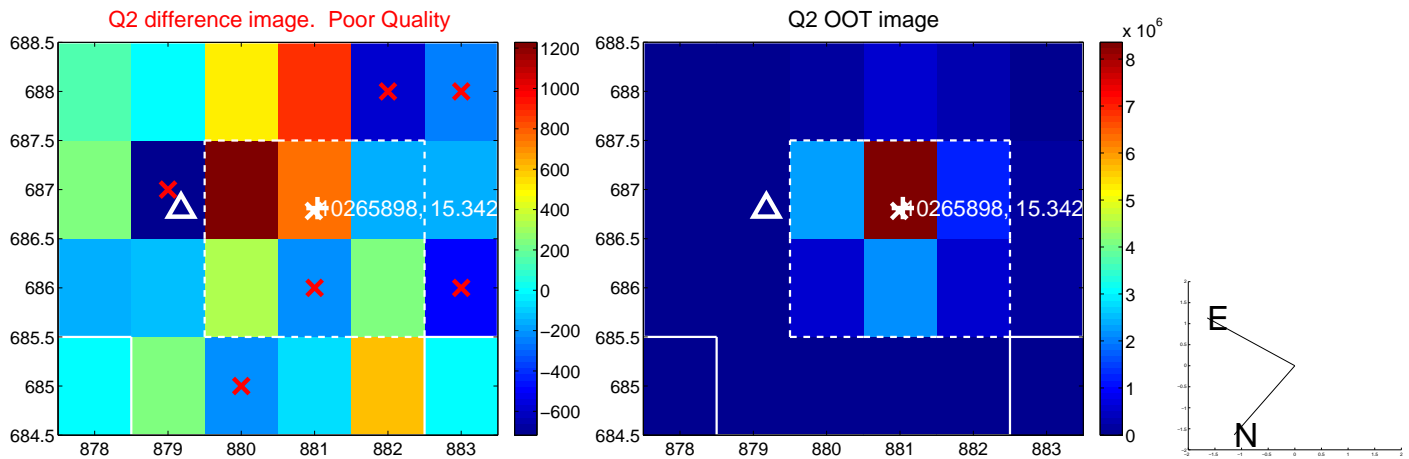
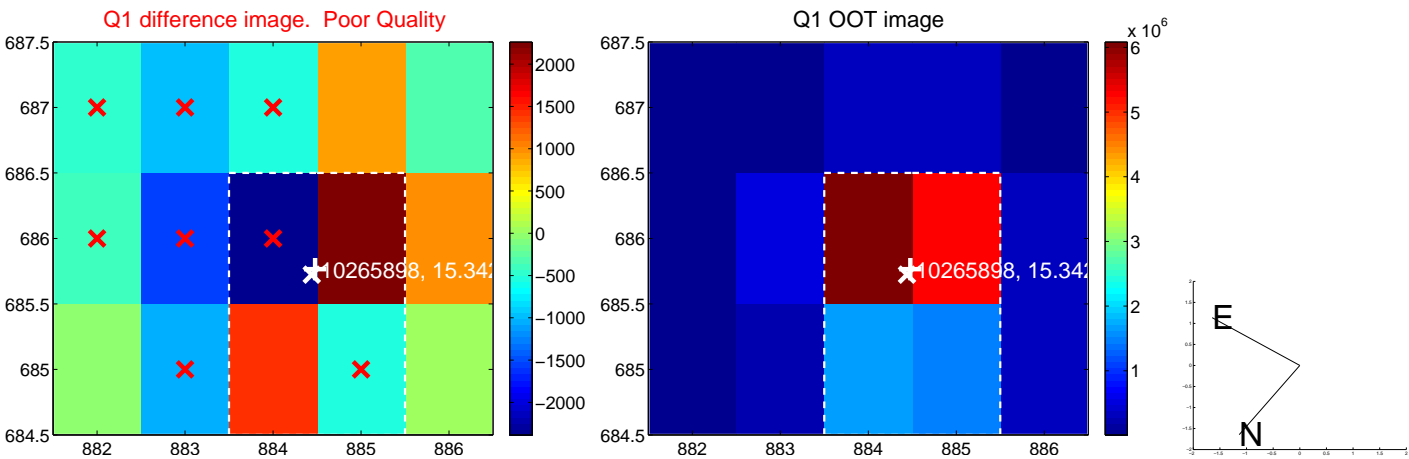
The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.848 ± 1.085	2.62	0.739 ± 1.784	2.751 ± 0.783
PRF-fit source offset from KIC position	2.632 ± 1.022	2.58	0.690 ± 1.638	2.540 ± 0.798
photometric centroid source offset	0.95 ± 1.11	0.85	-0.46 ± 1.15	0.83 ± 1.09

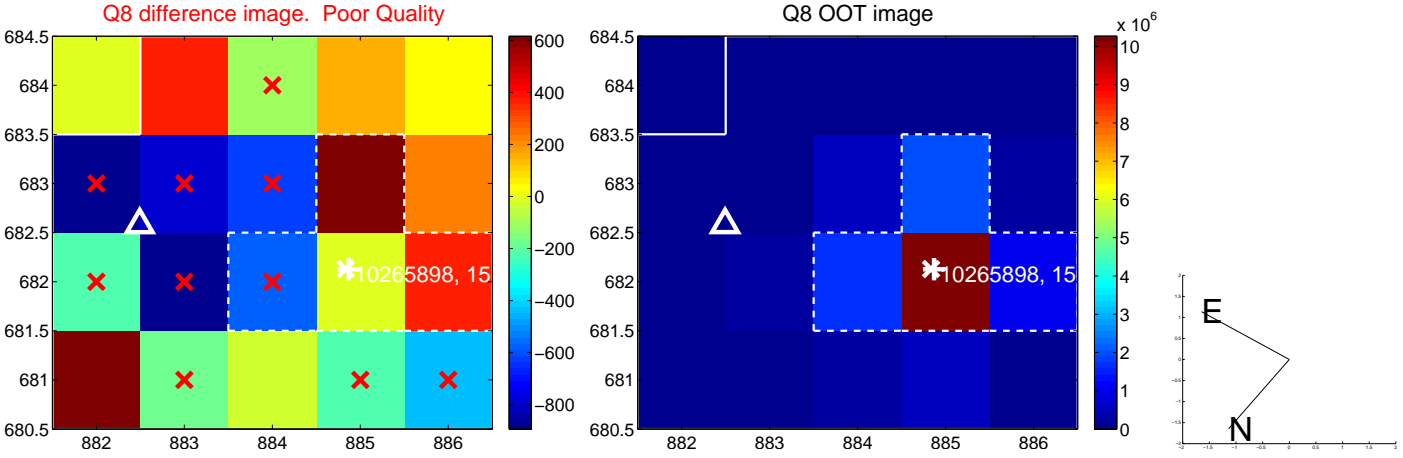
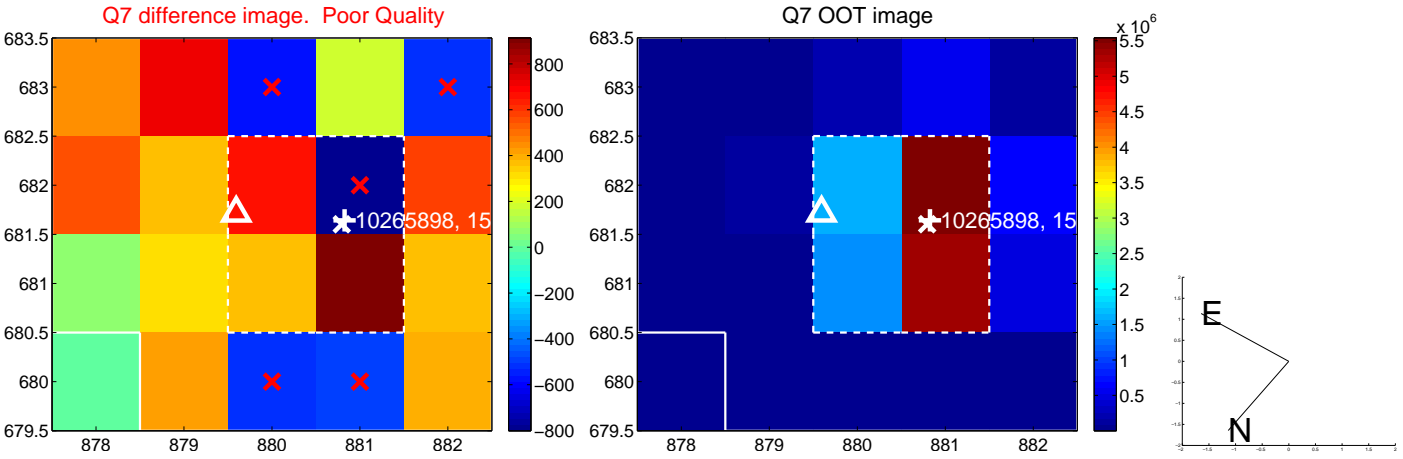
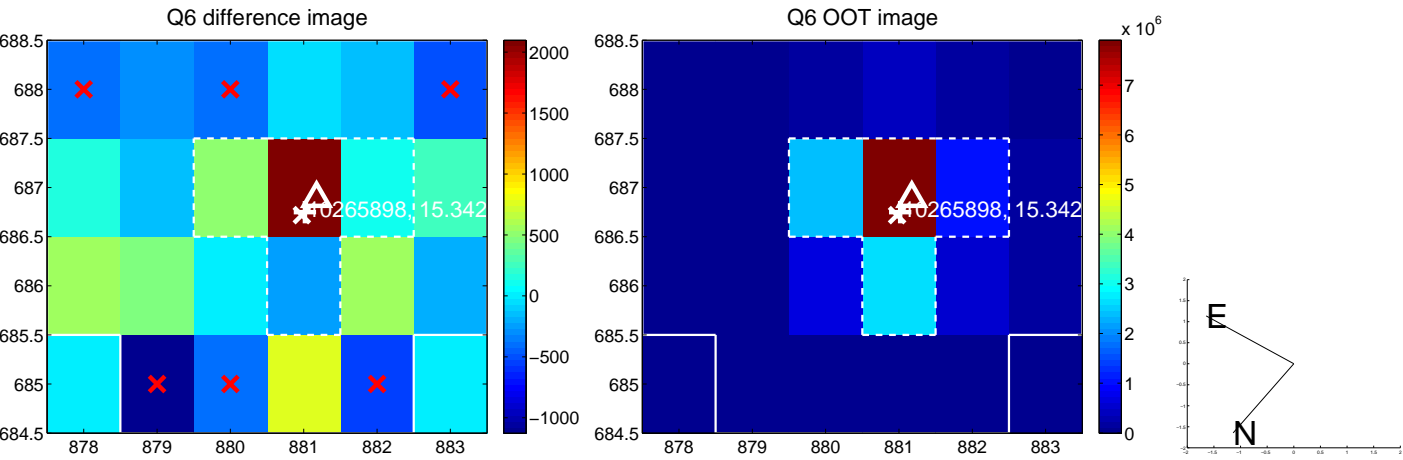
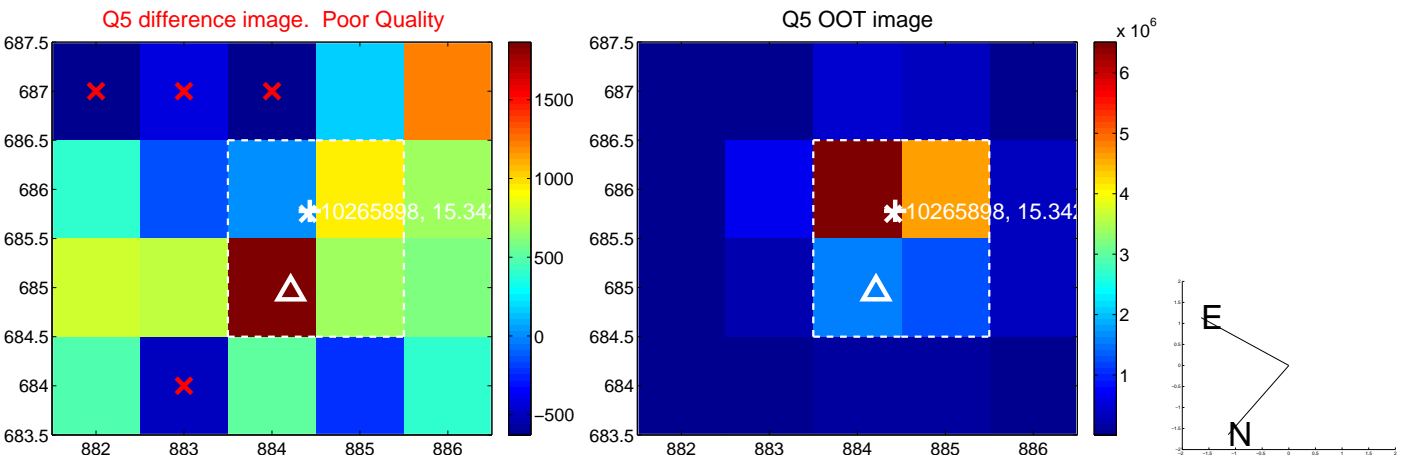


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

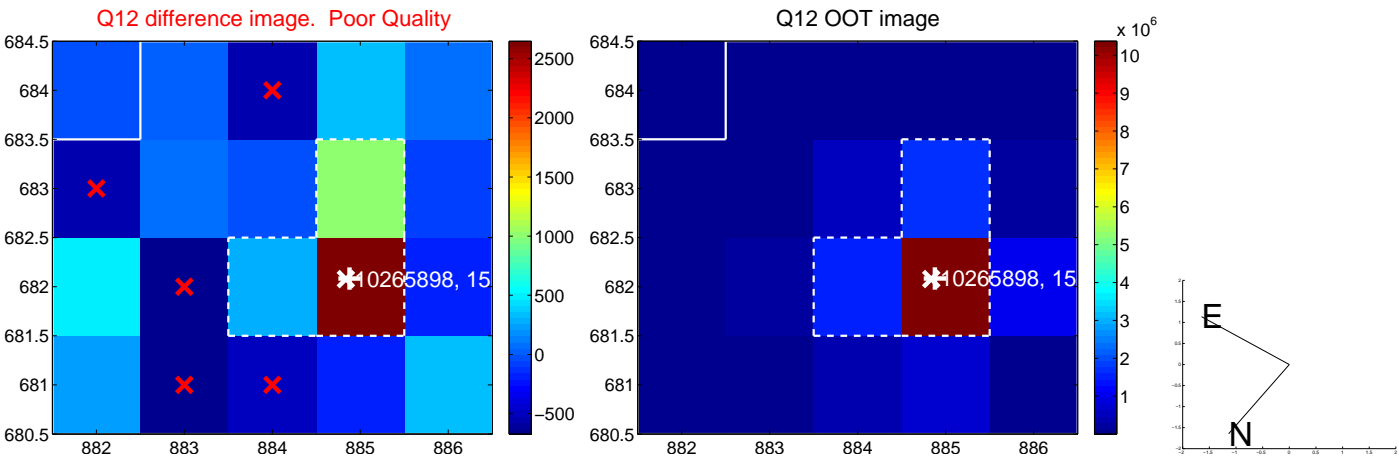
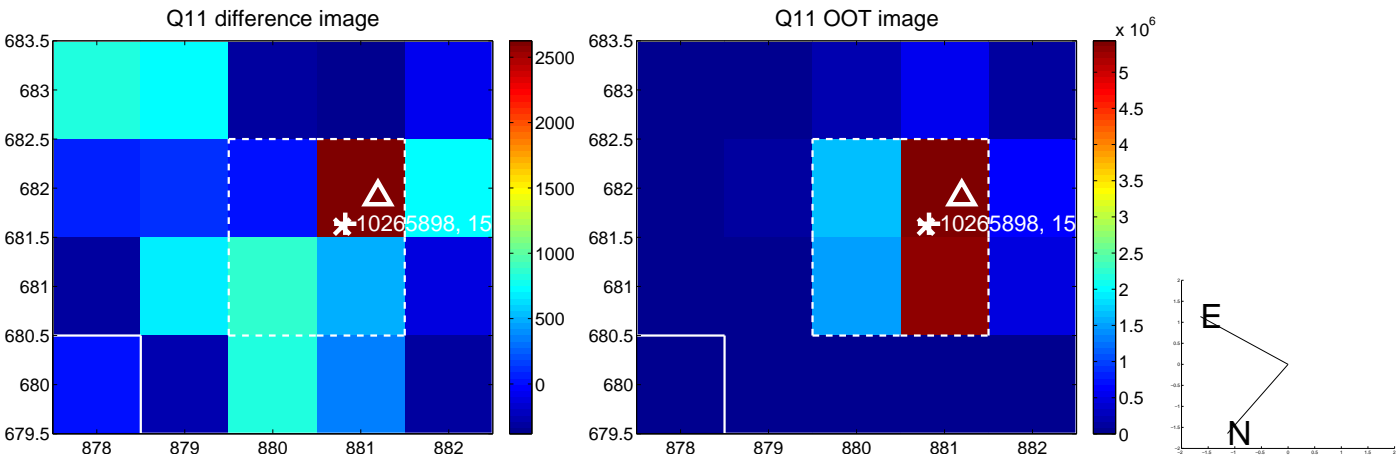
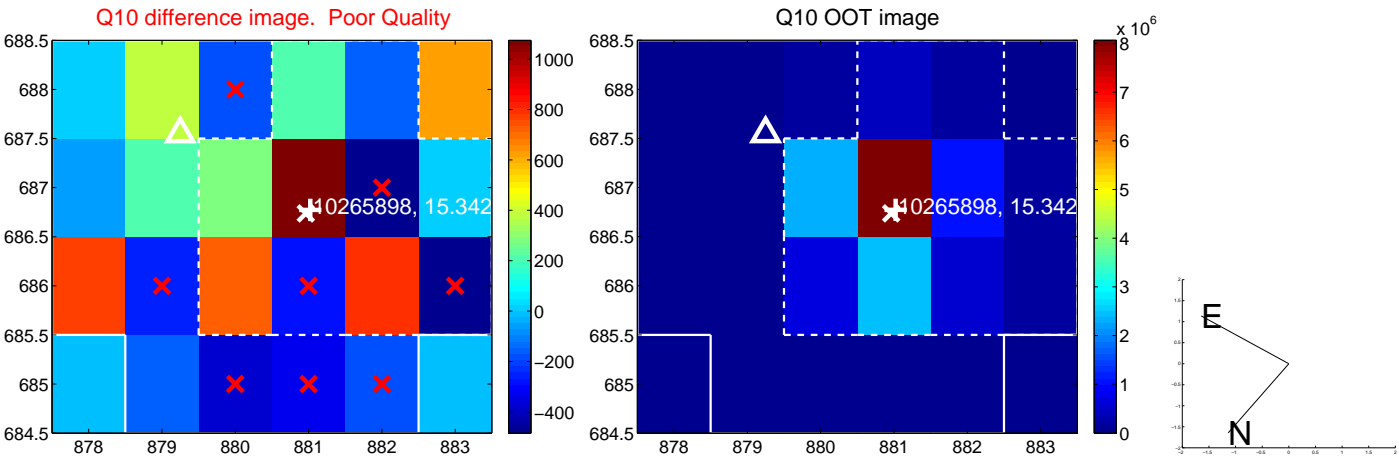
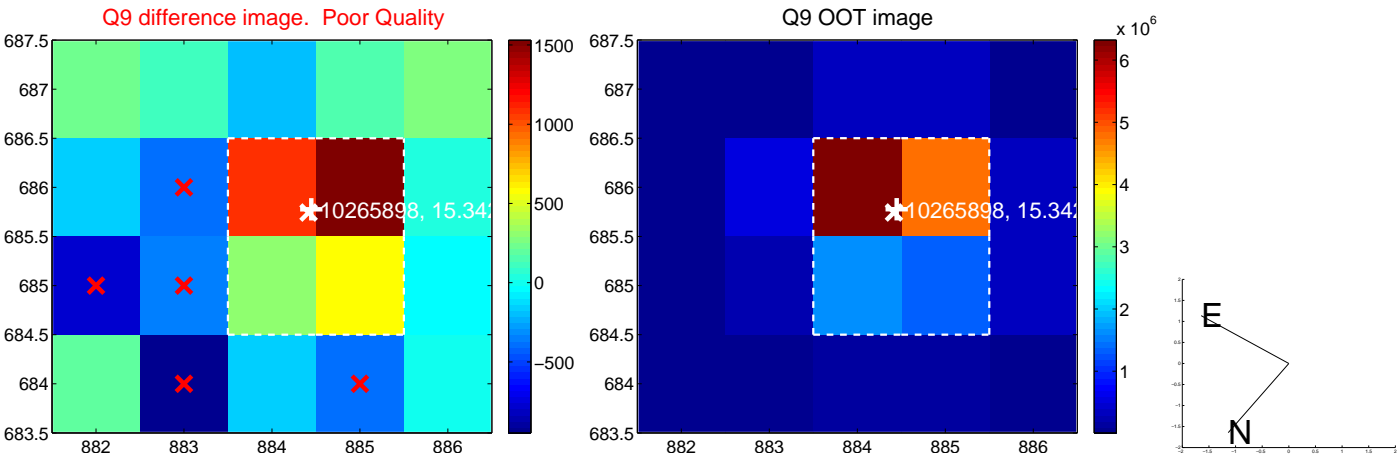
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



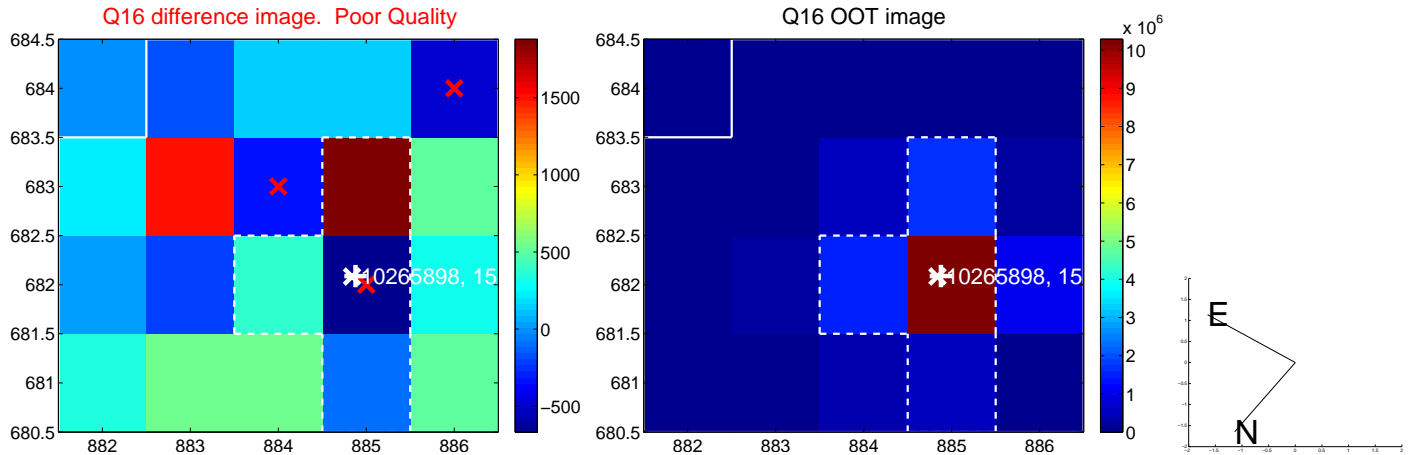
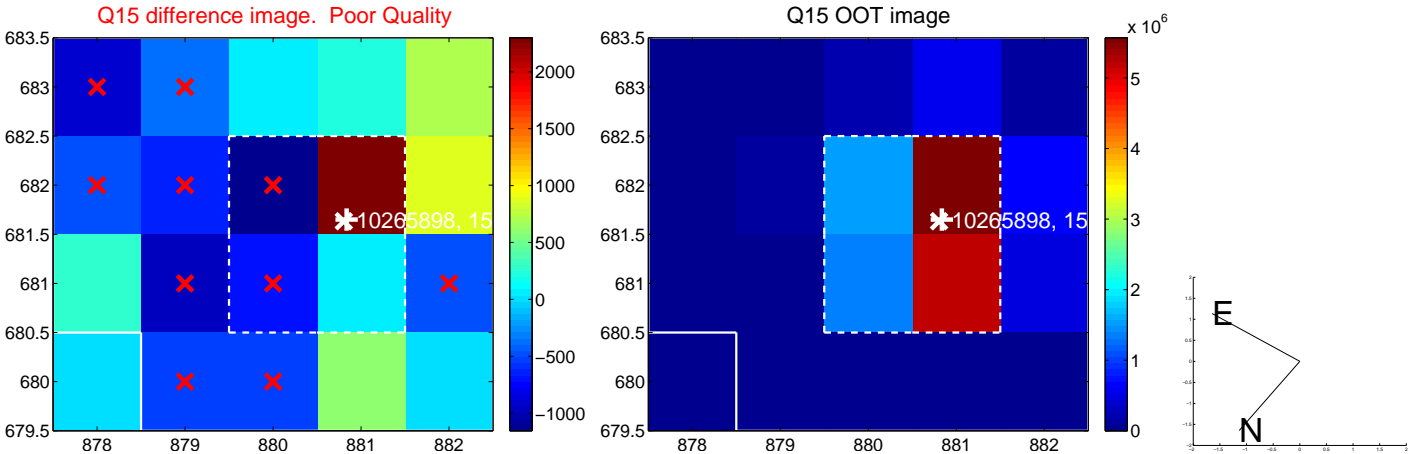
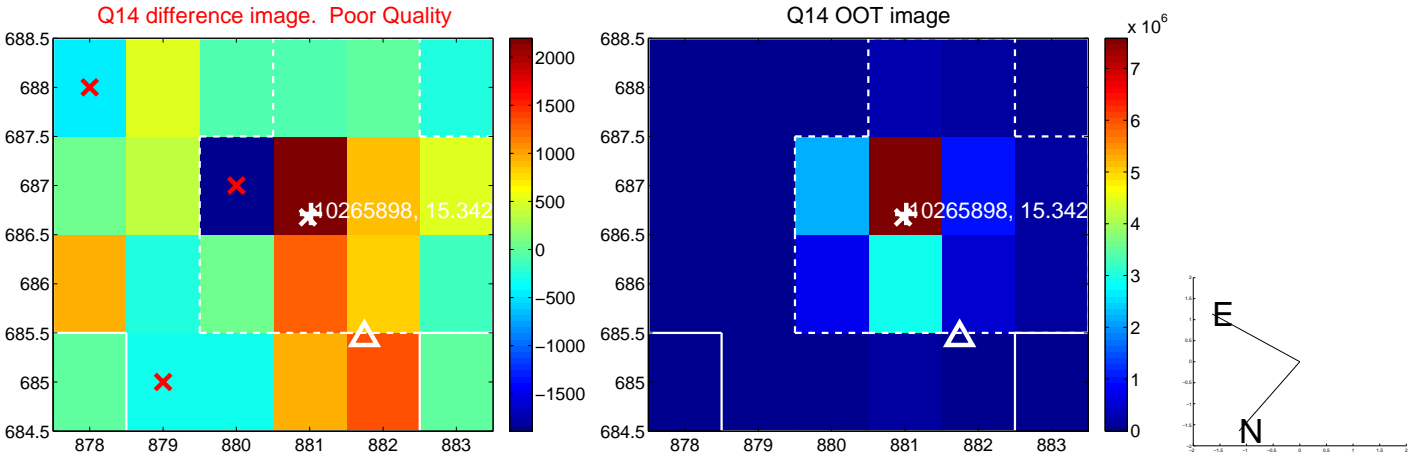
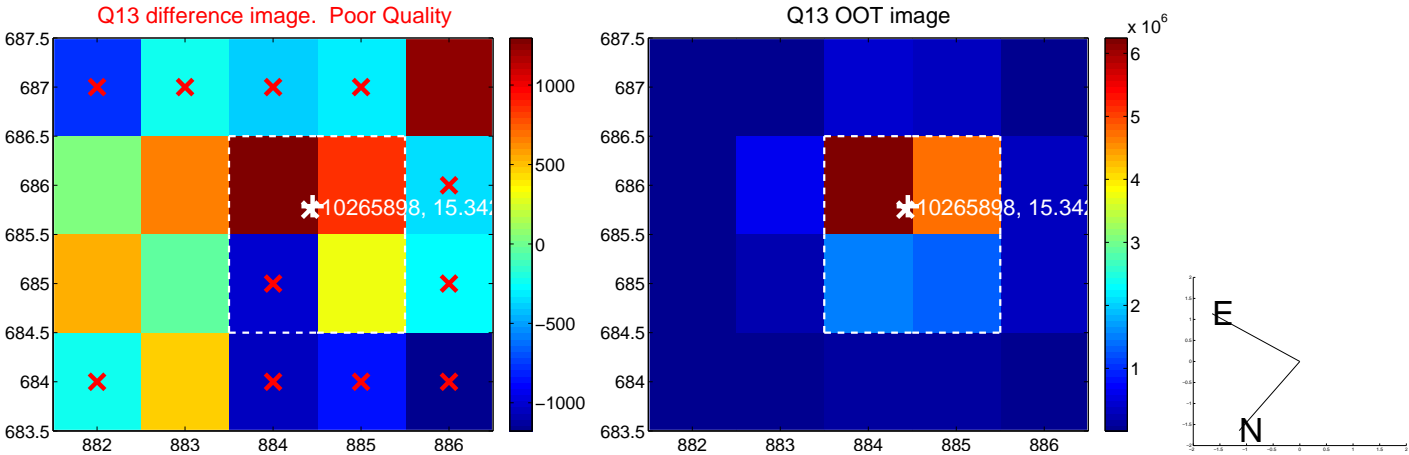
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



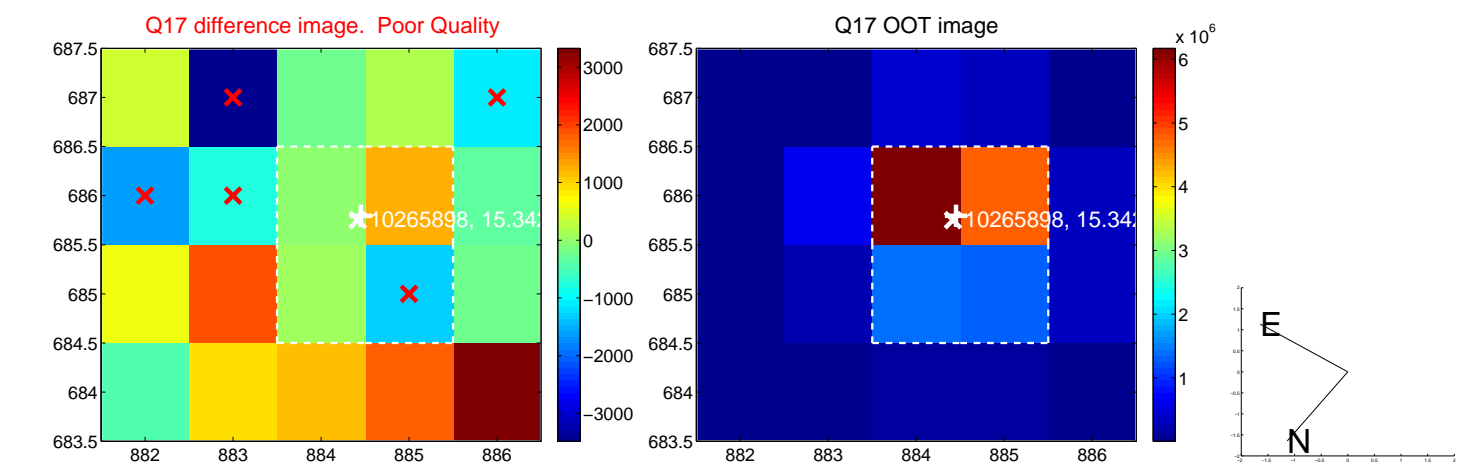
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



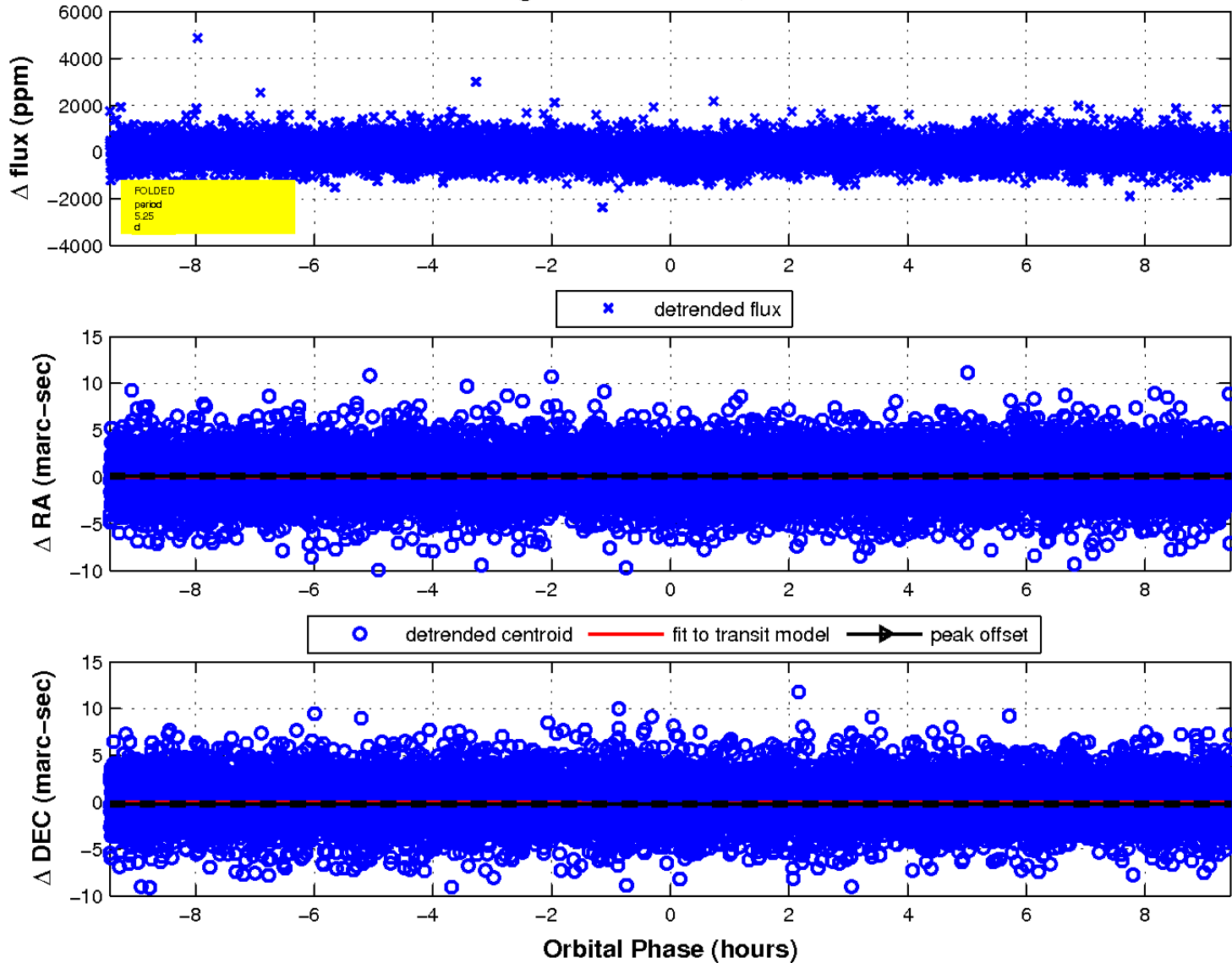
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

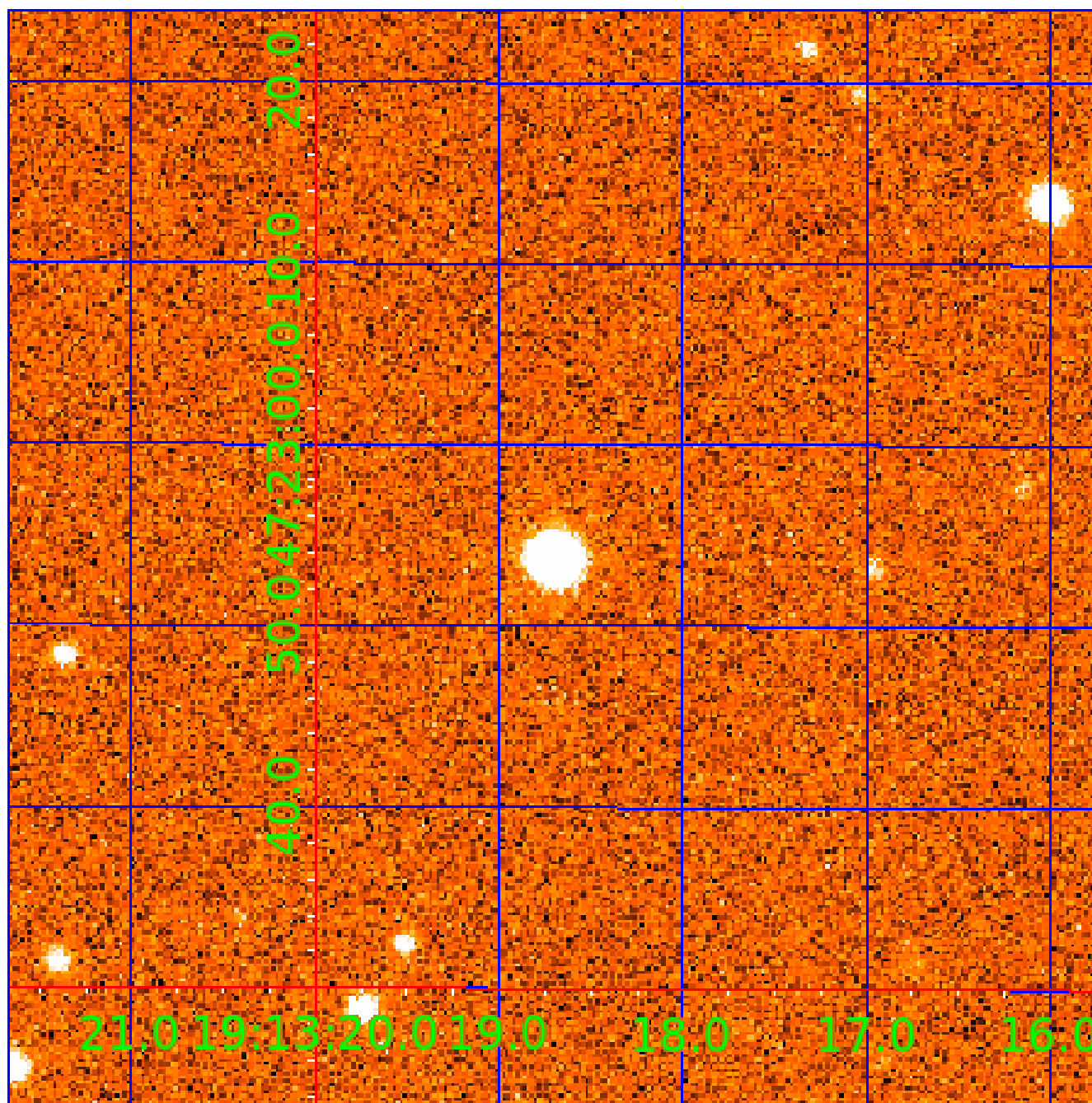


fluxWeightedCentroids, Planet 2 of 3



UKIRT Image

Declination



KIC 010265898

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})
010265898-01	OBS	0732.01	1.260238	132.610442	495.0	1.628	18.5	47.3	0.95	5550	2.57	1436.02
010265898-02	OBS	0732.03	5.254557	132.546104	182.5	3.149	10.6	11.1	0.95	5550	1.52	213.99
010265898-03	OBS	0732.02	3.295320	132.497170	151.7	1.933	8.2	9.2	0.95	5550	1.44	398.63

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010265898-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
010265898-02	OBS	PC	0.99	0	0	0	0	CENT_FEW_DIFFS
010265898-03	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.

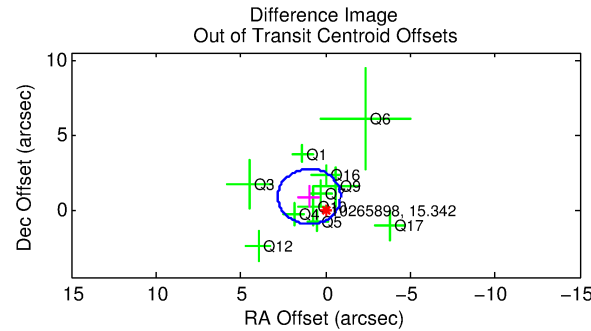
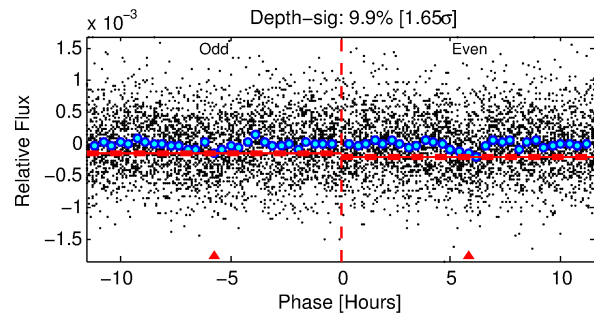
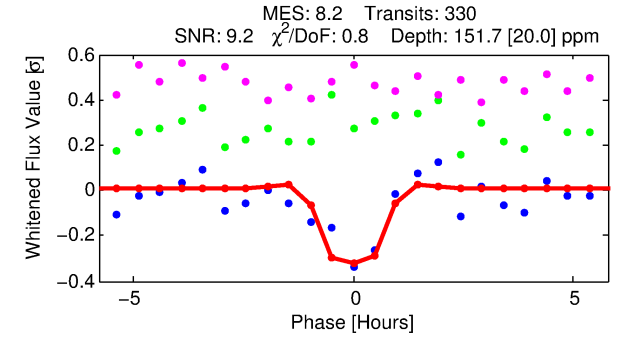
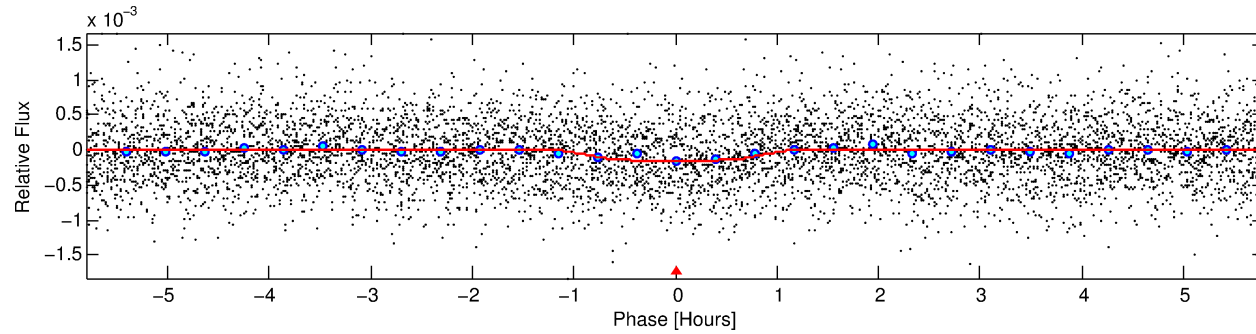
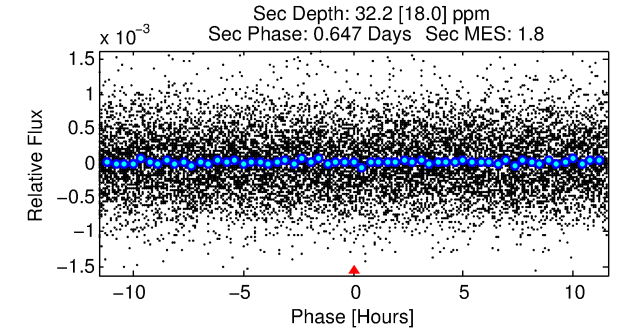
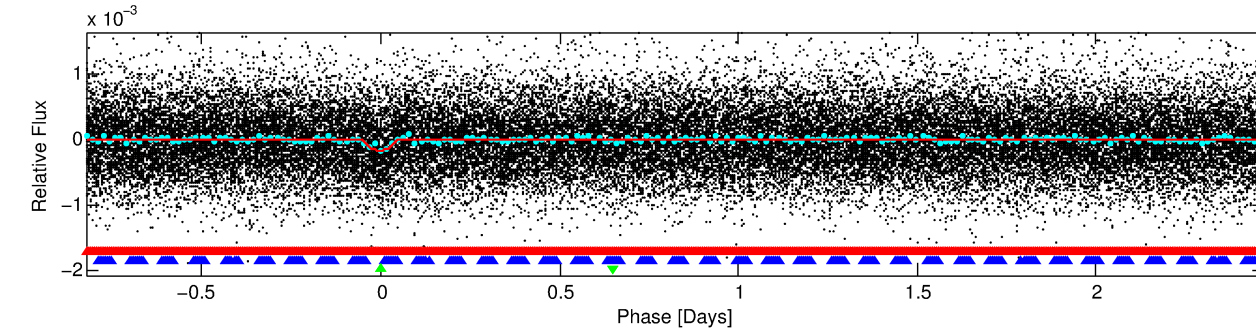
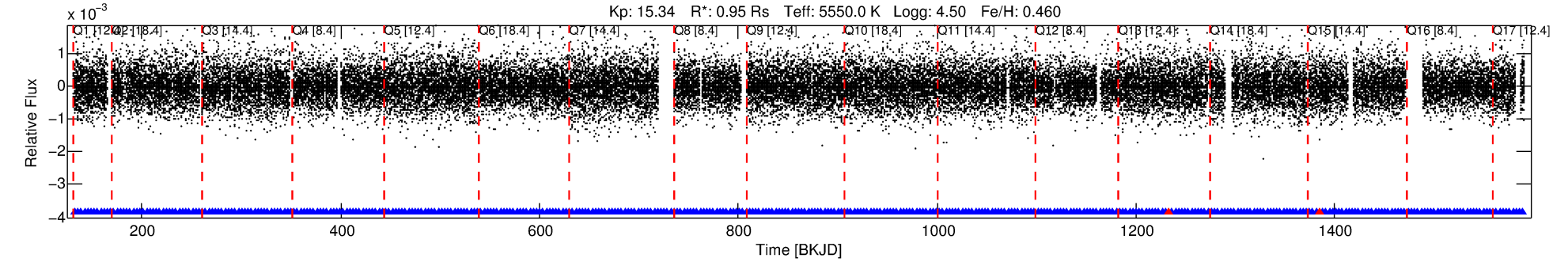
Ephemeris Match Information For 010265898-03

No Significant Match Found

DV One-Page Summary

KIC: 10265898 Candidate: 3 of 3 Period: 3.295 d

KOI: K00732.02 Corr: 0.936



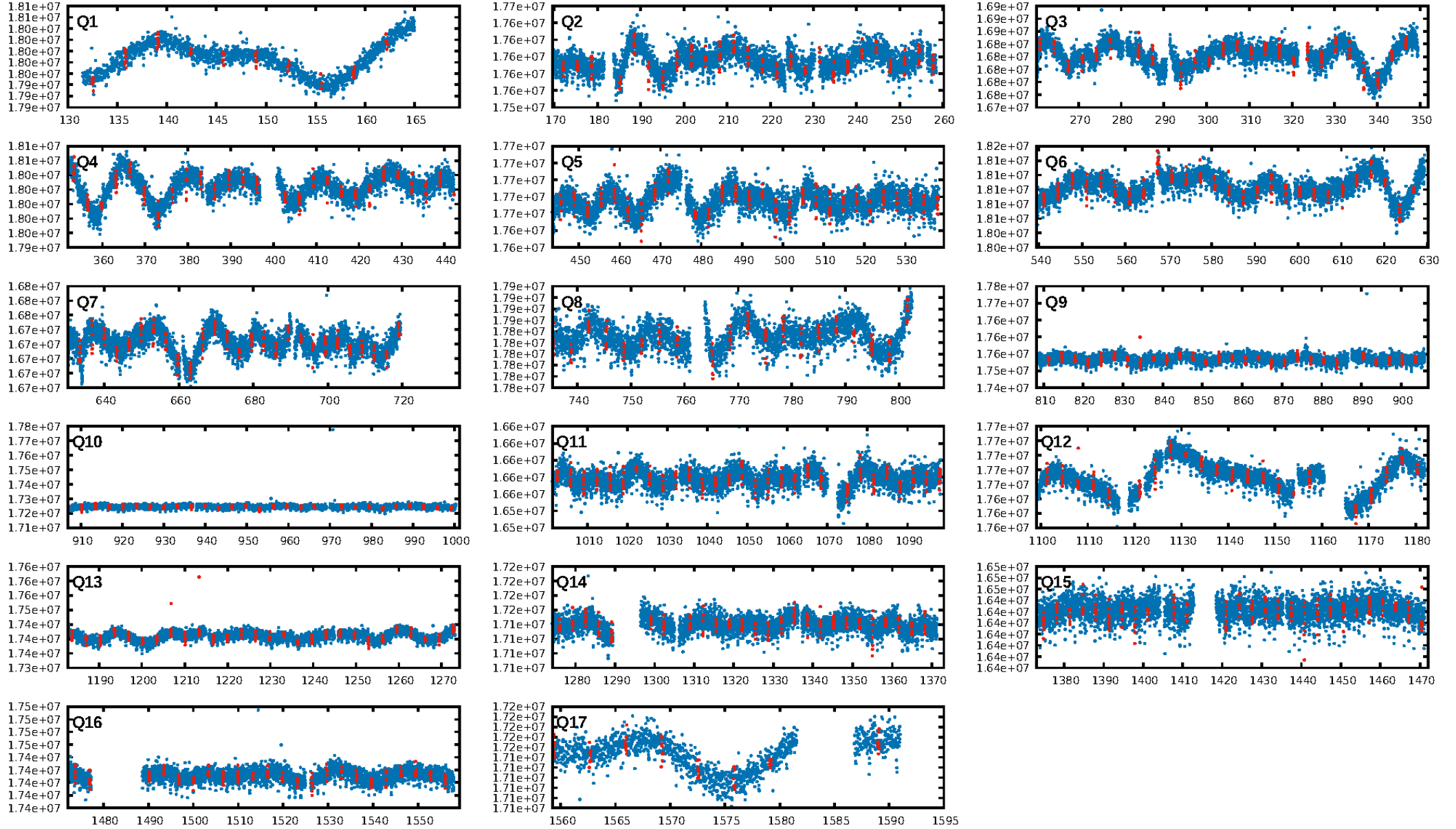
DV Fit Results:

Period = 3.29532 [0.00002] d
Epoch = 132.4972 [0.0036] BKJD
Rp/R* = 0.0138 [0.0125]
a/R* = 5.85 [22.52]
b = 0.91 [0.75]
Seff = 398.63 [142.72]
Teff = 1139 [102] K
Rp = 1.44 [1.35] Re
a = 0.0441 [0.0099] AU
Ag = 16.62 [31.95] [0.49 σ]
Teffp = 3557 [1688] K [1.43 σ]

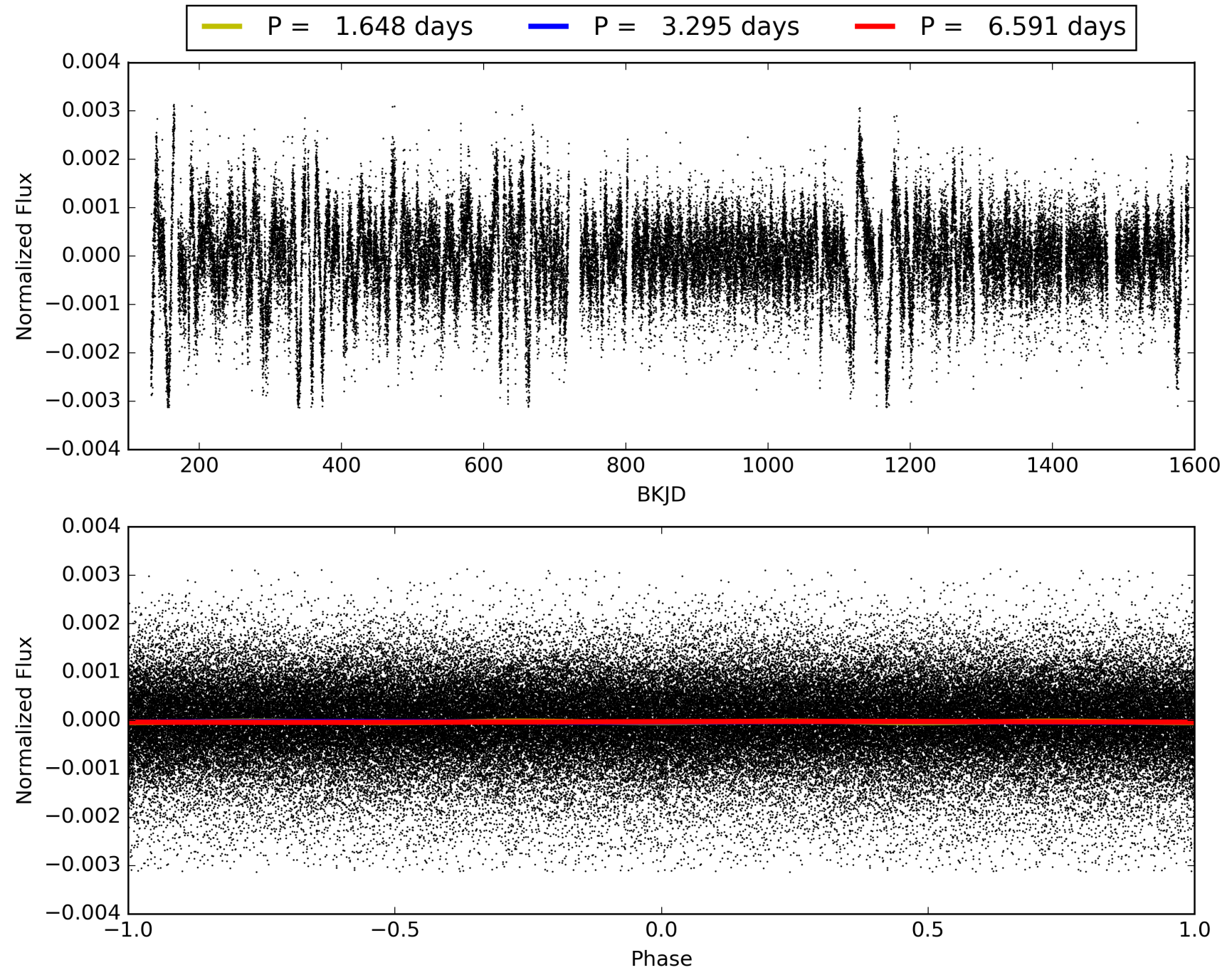
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [19.32 σ]
LongPeriod-sig: 100.0% [12.73 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.96e-16
RollingBand-fgt: 0.99 [314/316]
GhostDiagnostic-chr: -11.44
Centroid-sig: 51.1%
Centroid-so: 1.103 arcsec [0.79 σ]
OotOffset-rm: 1.294 arcsec [2.10 σ]
KicOffset-rm: 1.134 arcsec [1.87 σ]
OotOffset-st: 2/2/3/4 [11]
KicOffset-st: 2/2/3/4 [11]
DiffImageQuality-fgm: 0.18 [2/11]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 010265898-03, PDC Light Curves

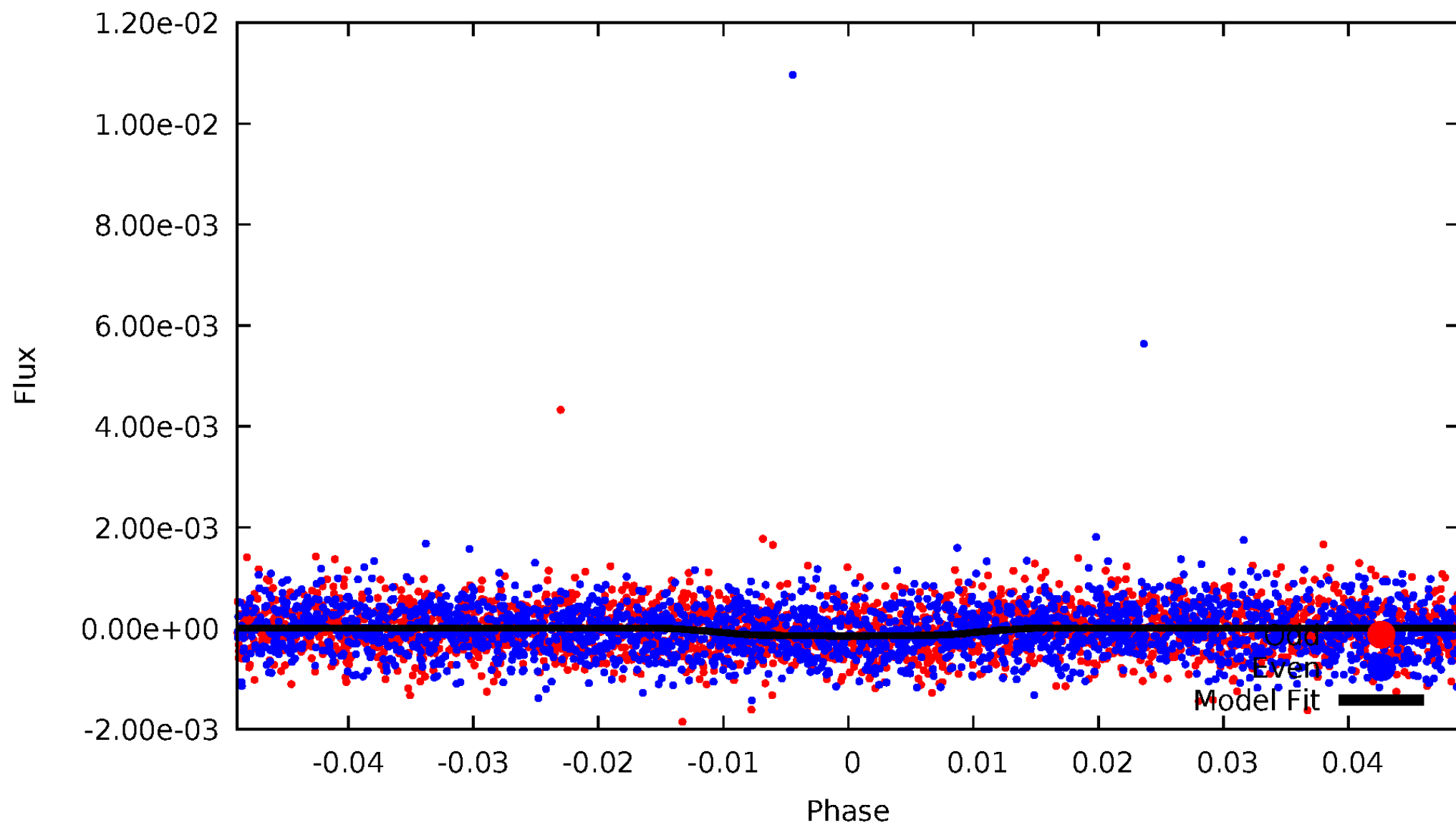


TCE 010265898-03



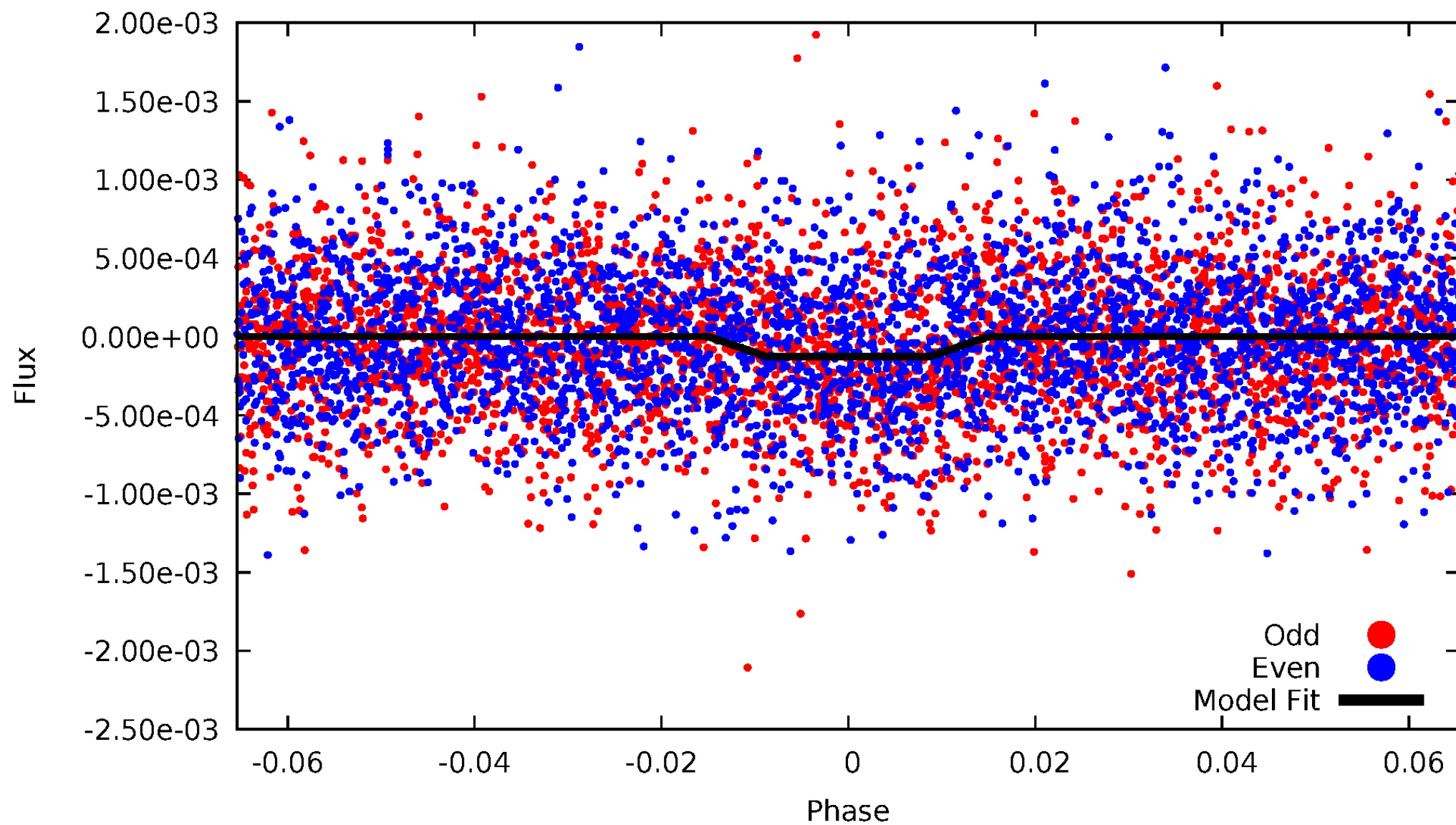
DV Odd/Even

TCE 010265898-03



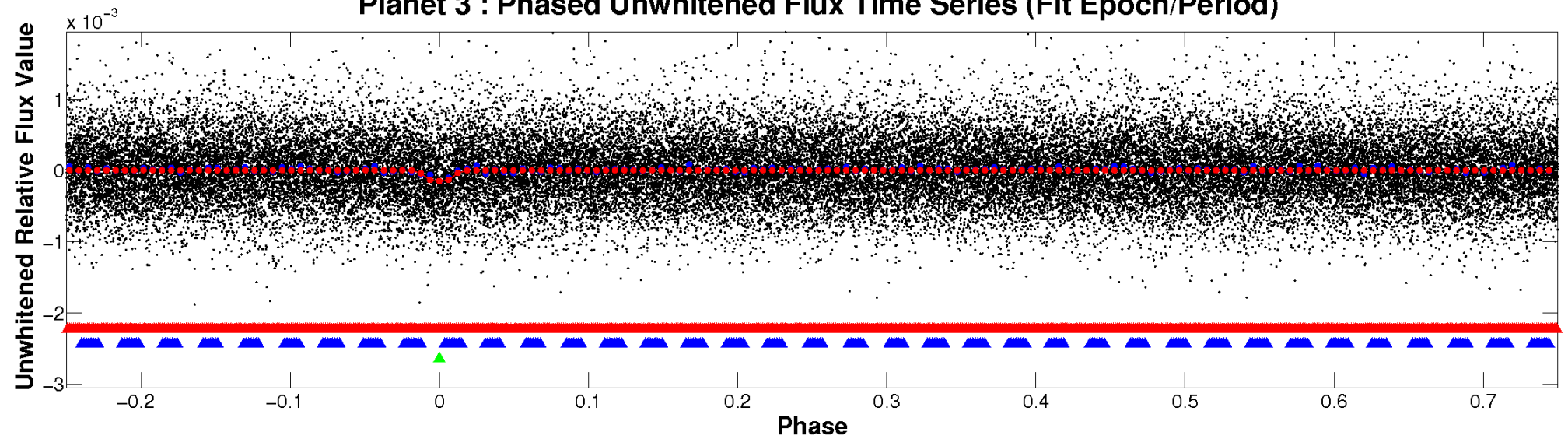
ALT Odd/Even

TCE 010265898-03

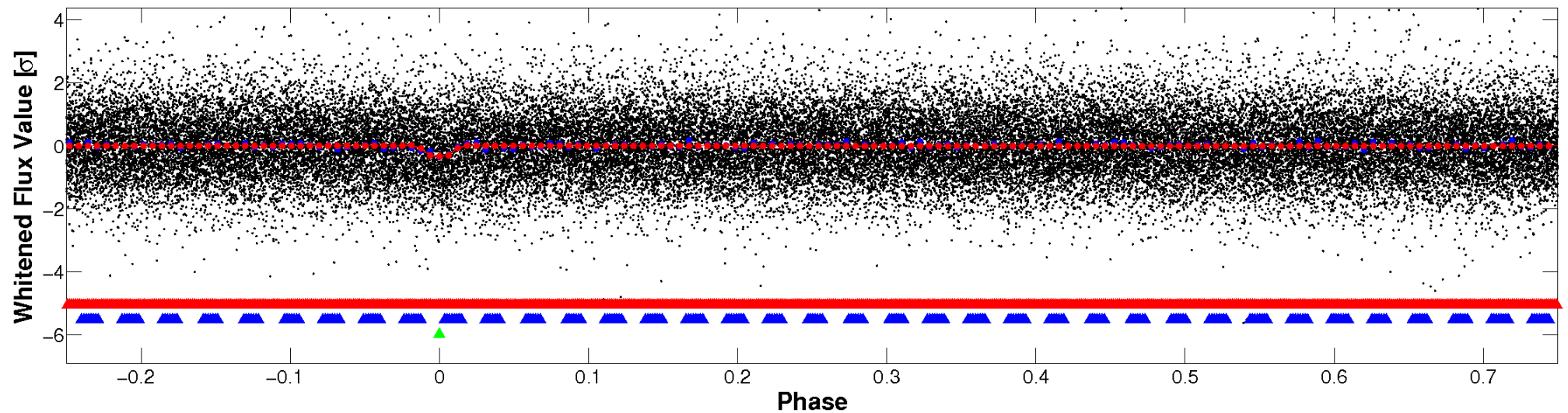


Non-Whitened Vs. Whitened Light Curve

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

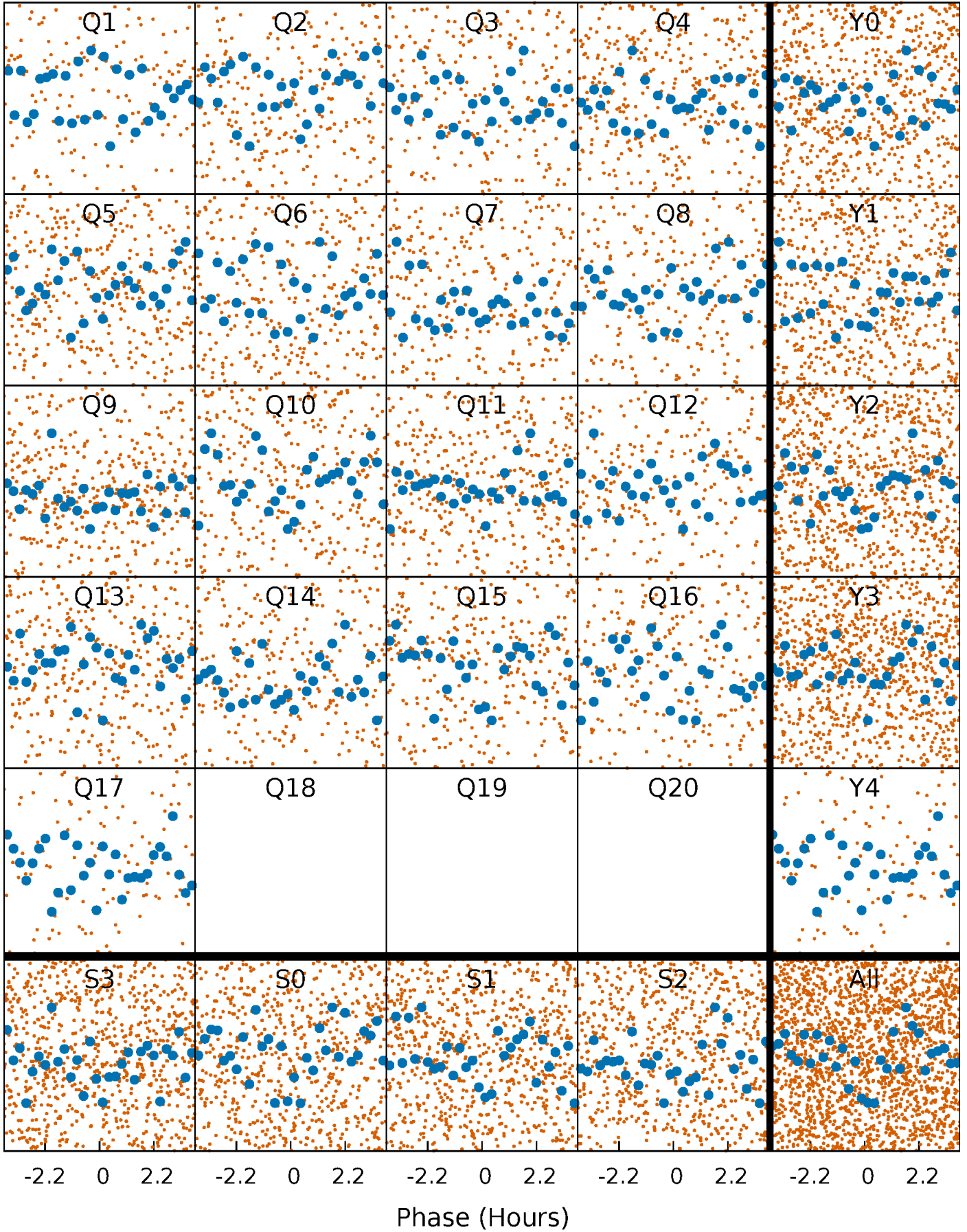


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



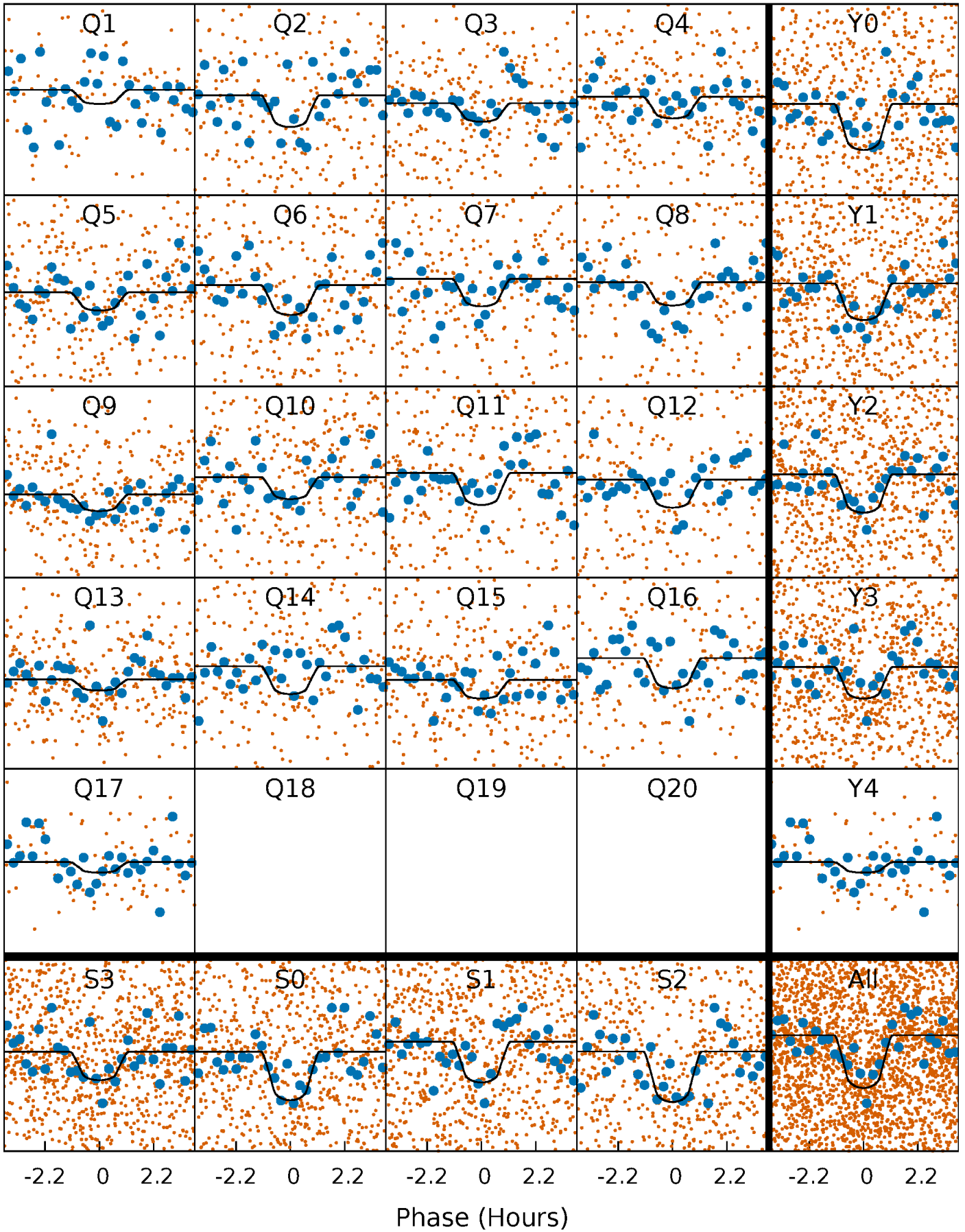
PDC Quarter-Phased Transit Curves

TCE 010265898-03 P= 3.295320 Days $T_0=132.497170$ (BKJD)



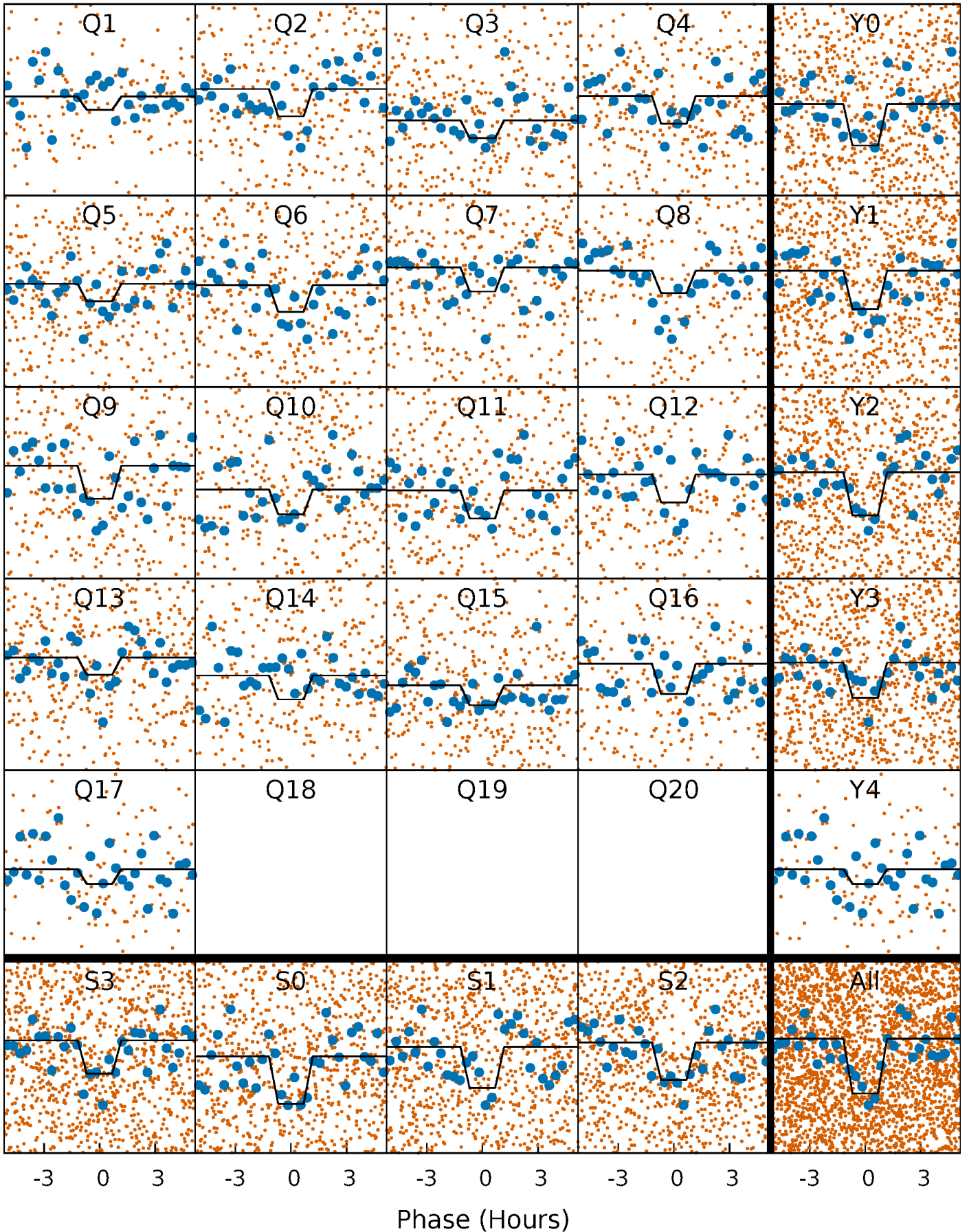
DV Quarter-Phased Transit Curves

TCE 010265898-03 P= 3.295320 Days $T_0=132.497170$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

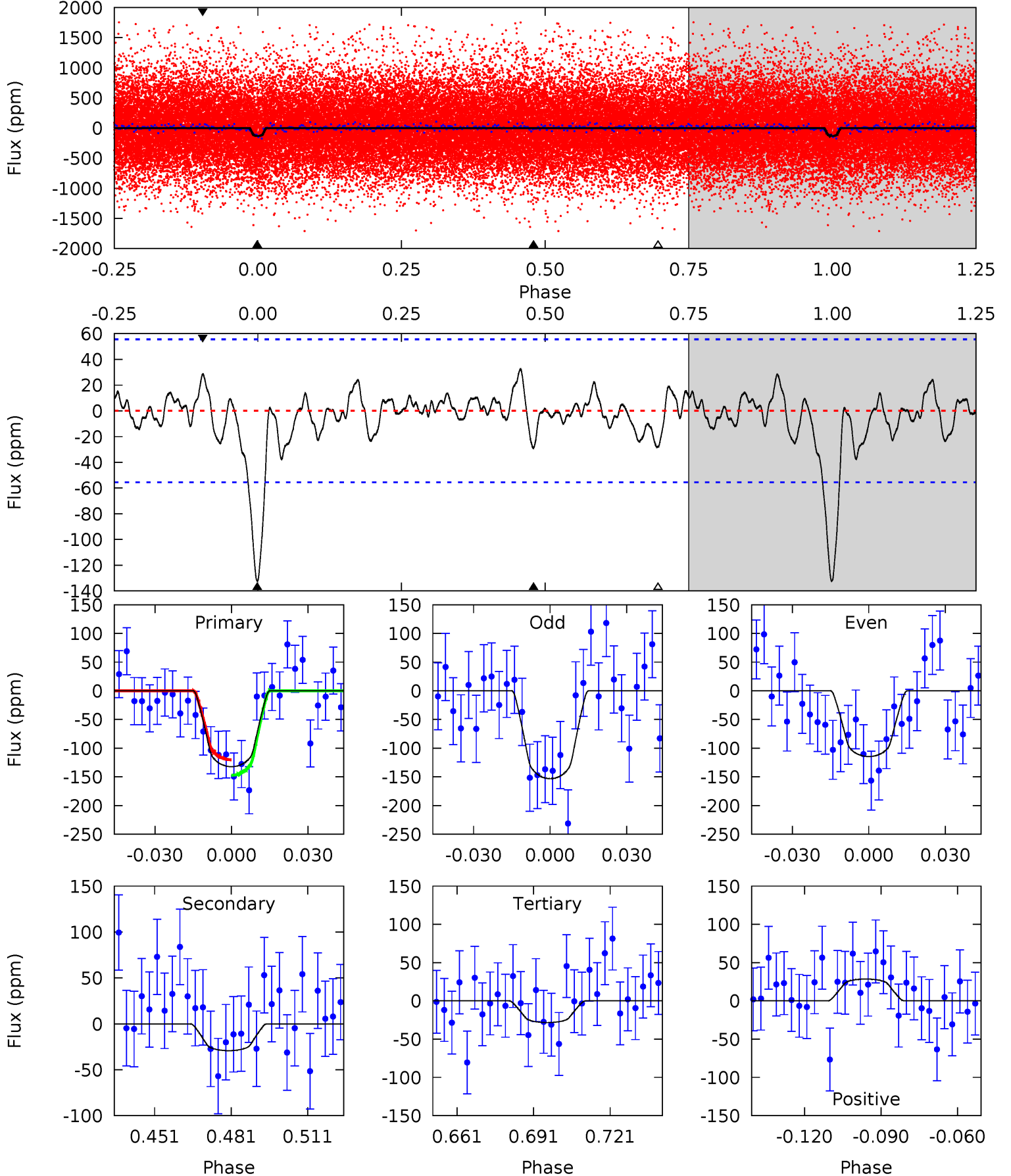
TCE 010265898-03 $P = 3.295335$ Days $T_0 = 132.487256$ (BKJD)



DV Model-Shift Uniqueness Test

010265898-03, P = 3.295320 Days, E = 129.201850 Days

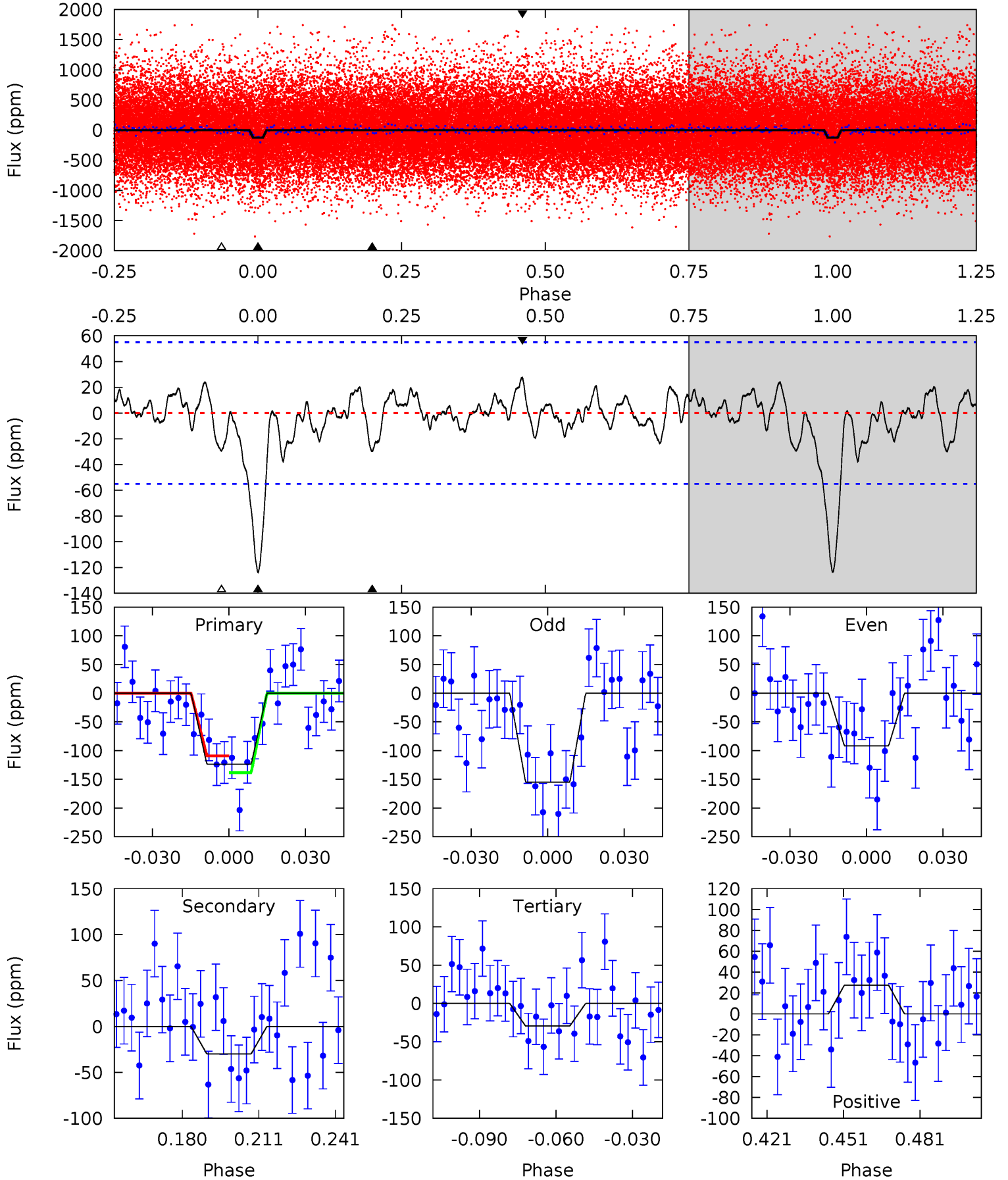
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.5	2.53	2.46	2.47	4.81	2.17	1.01	9.00	8.99	0.08	0.06	1.67	0.82	0.20	1.17



Alt Model-Shift Uniqueness Test

010265898-03, P = 3.295335 Days, E = 129.191921 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.8	2.61	2.56	2.40	4.81	2.17	1.01	8.24	8.40	0.05	0.21	2.77	0.86	0.18	1.28



Stellar Parameters For KIC 010265898

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5550^{+166}_{-183}	$4.500^{+0.046}_{-0.184}$	$0.460^{+0.050}_{-0.300}$	$0.954^{+0.252}_{-0.079}$	$1.050^{+0.075}_{-0.113}$	$1.702^{+0.304}_{-0.816}$
	+3%/-3%	+1%/-4%	+11%/-65%	+26%/-8%	+7%/-11%	+18%/-48%
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 010265898-03 / KOI 0732.02

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-29 ± 12	$1.69^{+1.29}_{-0.99}$	1624^{+88}_{-76}	3629^{+1502}_{-662}	$9.831^{+52.085}_{-7.032}$
Alt.	-30 ± 11	$1.54^{+1.23}_{-0.96}$	1617^{+114}_{-69}	3763^{+1808}_{-704}	13^{+83}_{-10}

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

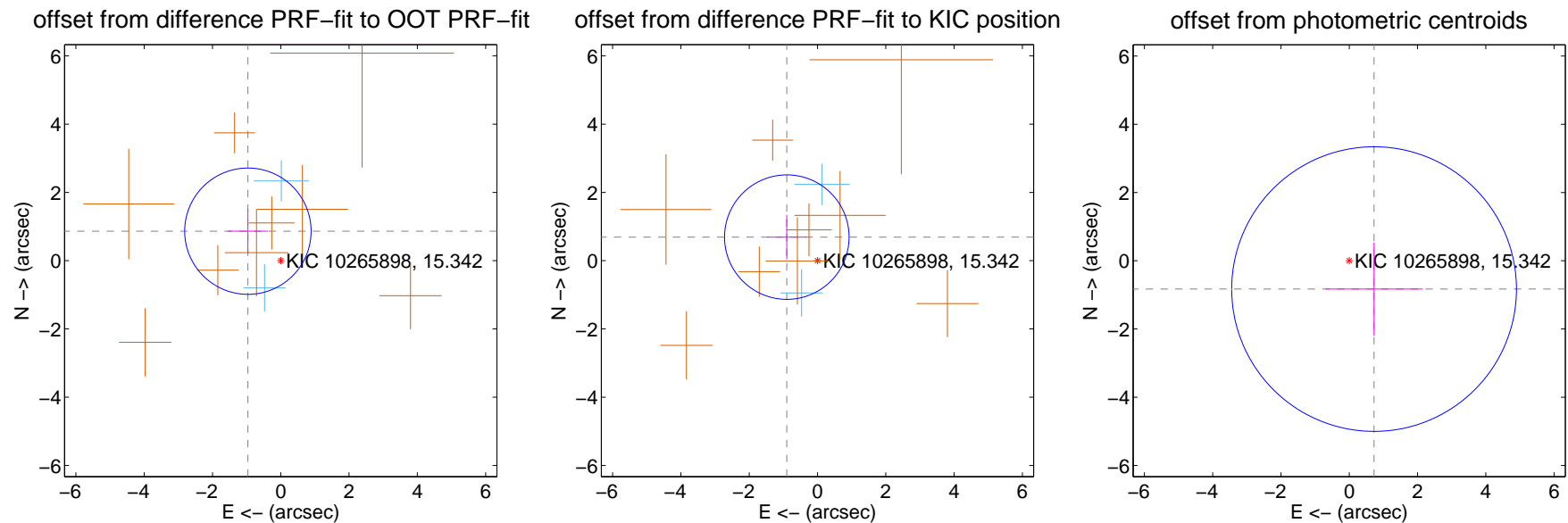
DV Centroid Data

Supplemental centroid analysis for 010265898-03. Kepler magnitude: 15.34. Transit SNR 9.18

There are 2 quarters with good PRF difference image offsets

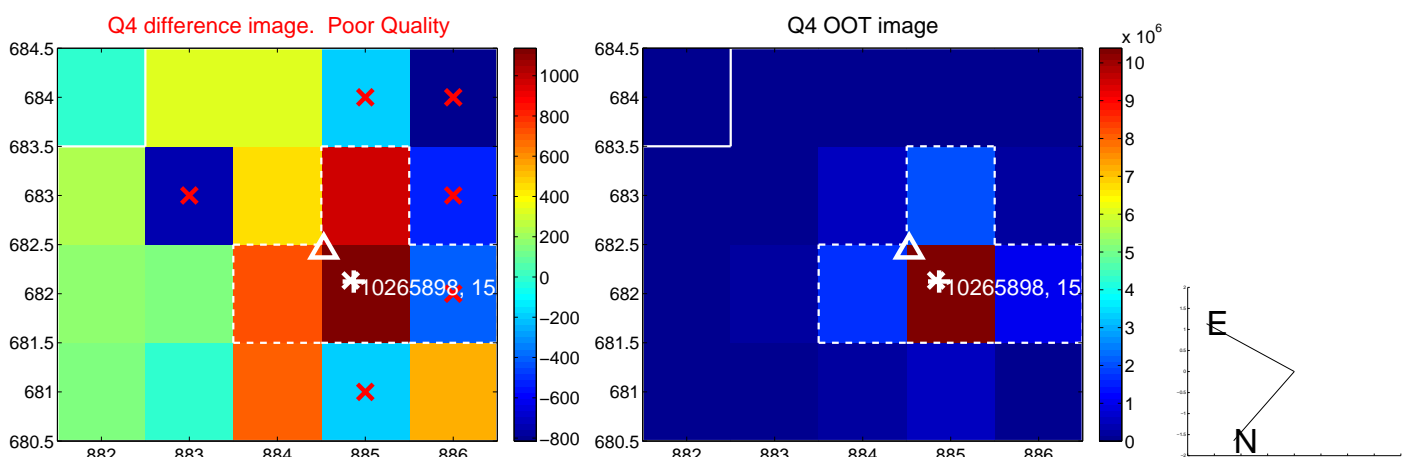
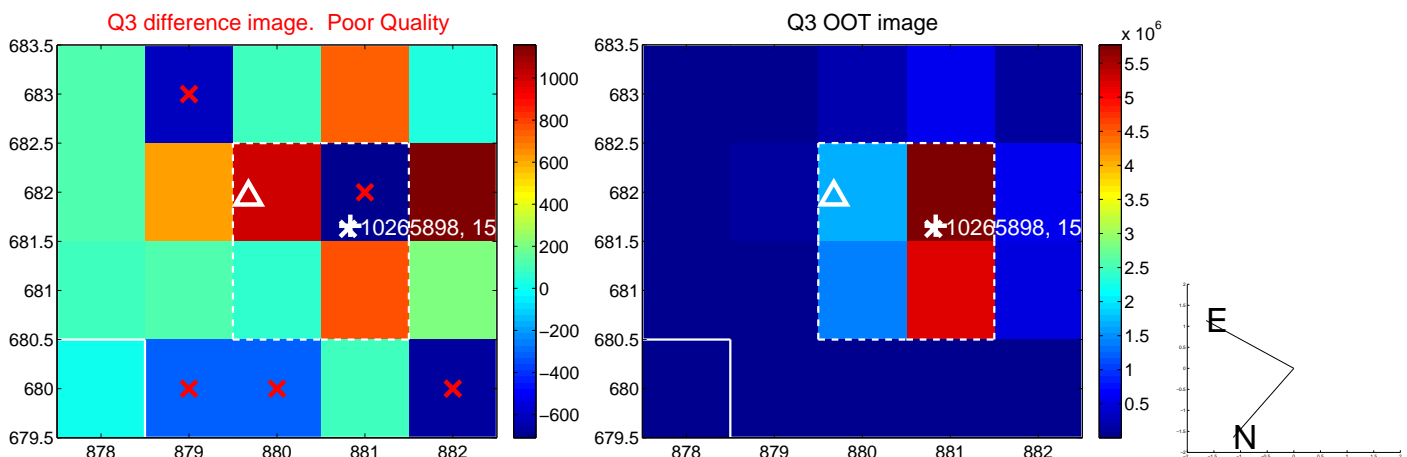
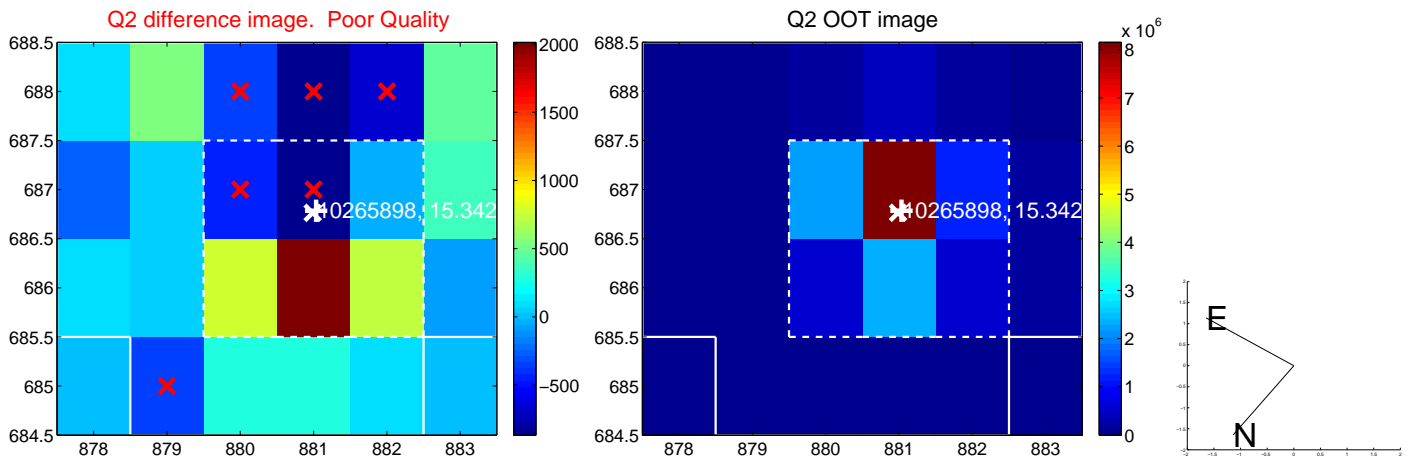
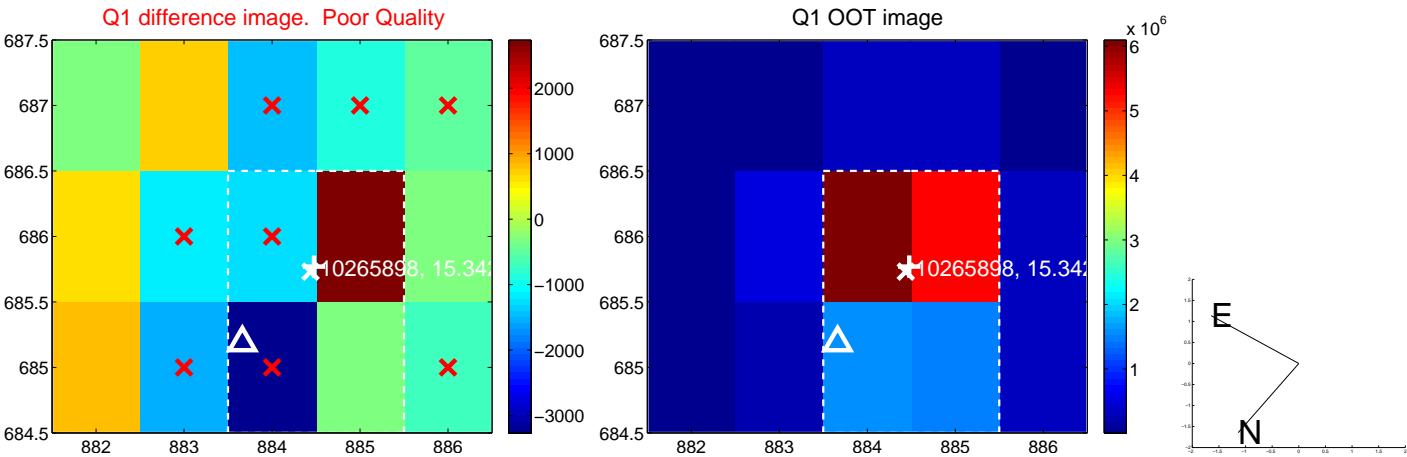
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.294 ± 0.617	2.10	0.963 ± 0.590	0.865 ± 0.648
PRF-fit source offset from KIC position	1.134 ± 0.608	1.87	0.899 ± 0.581	0.691 ± 0.650
photometric centroid source offset	1.10 ± 1.39	0.79	-0.73 ± 1.42	-0.83 ± 1.37

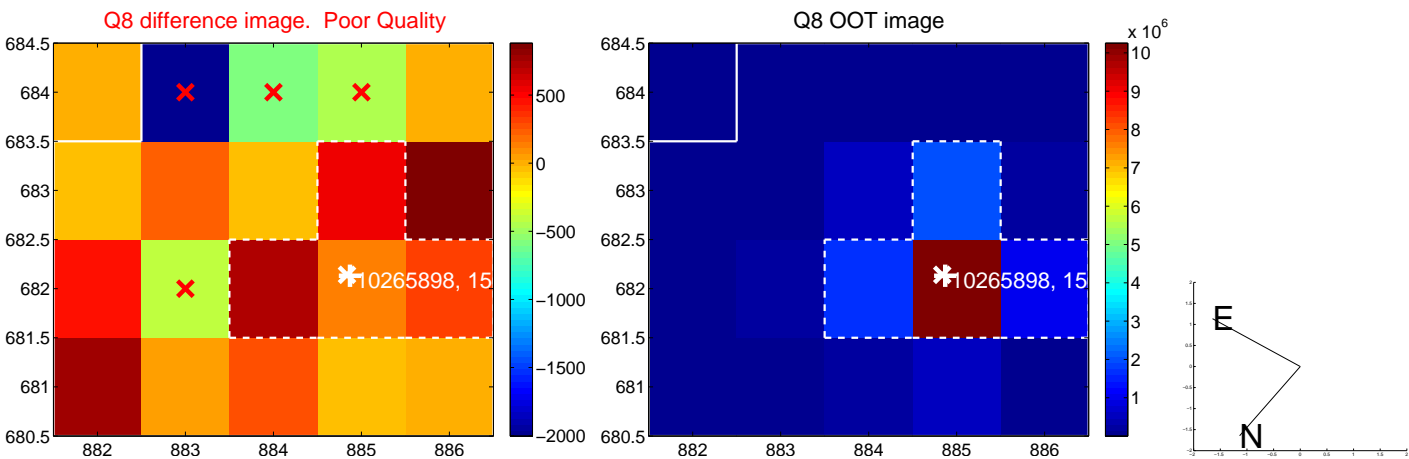
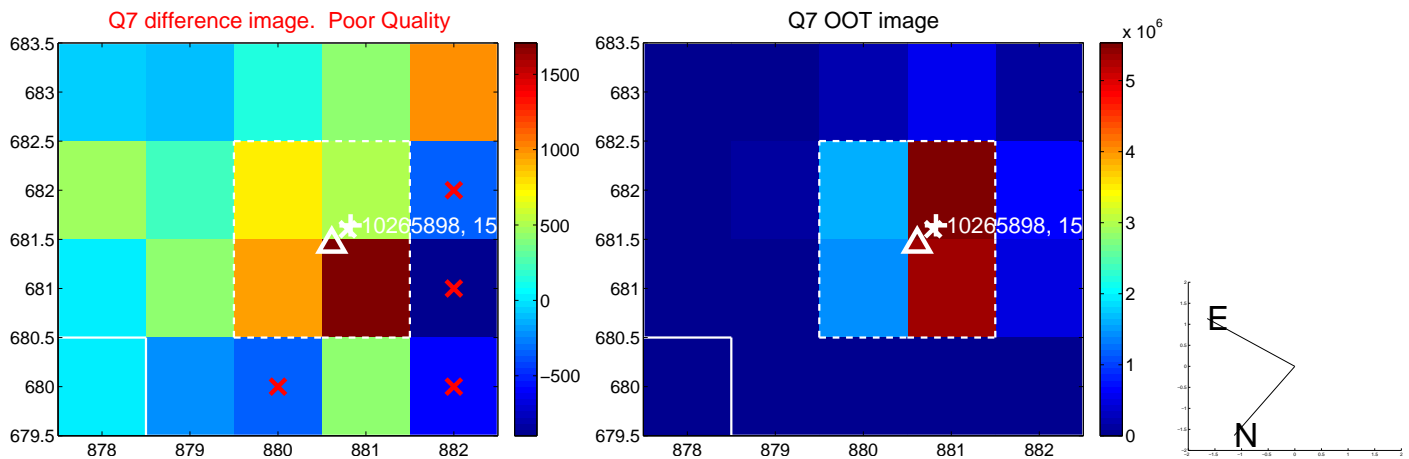
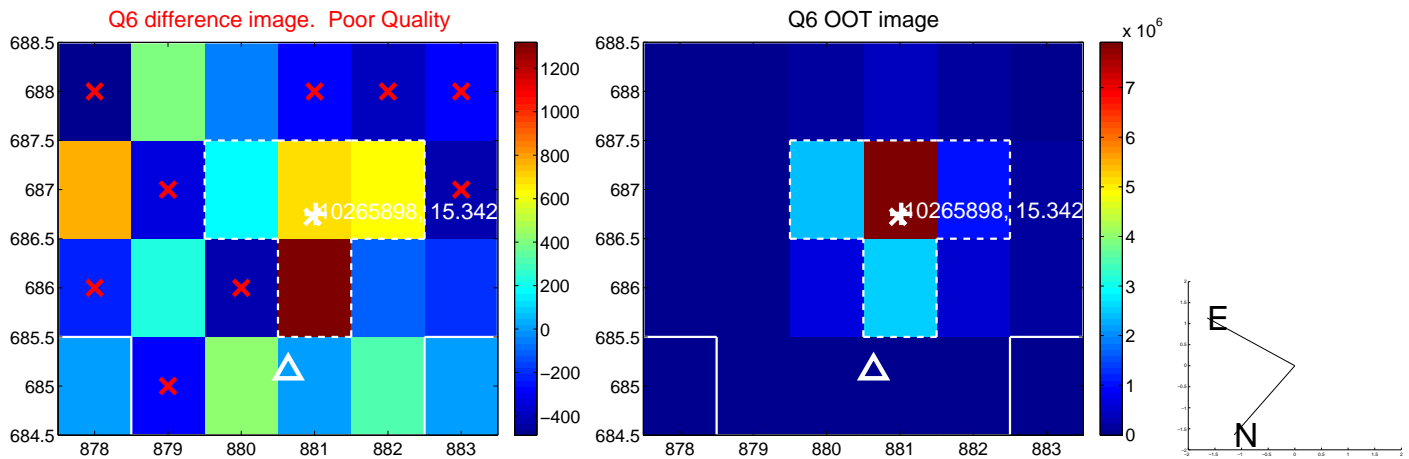
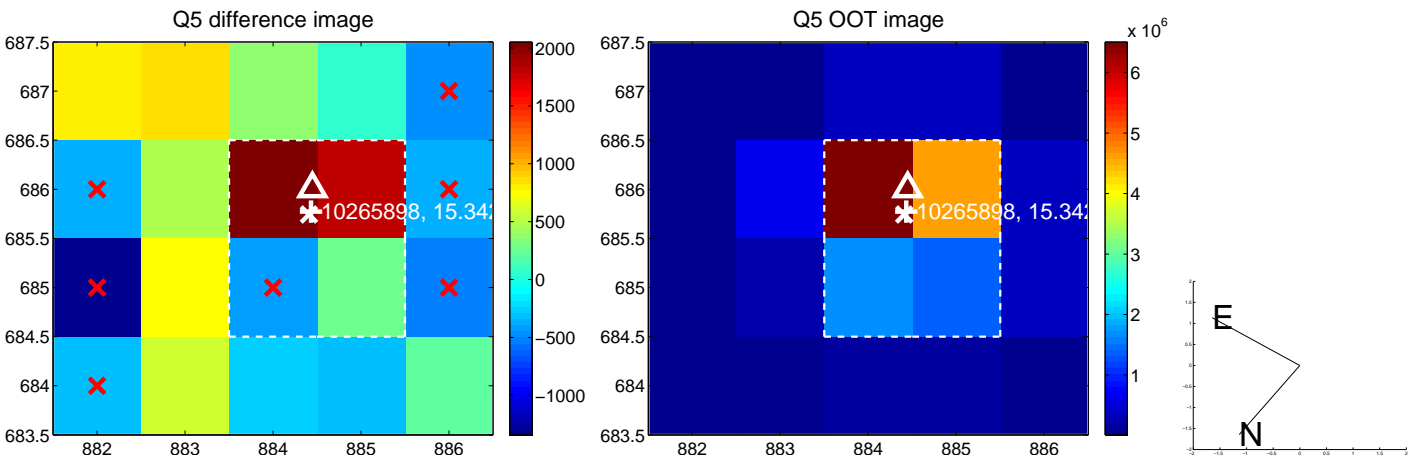


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

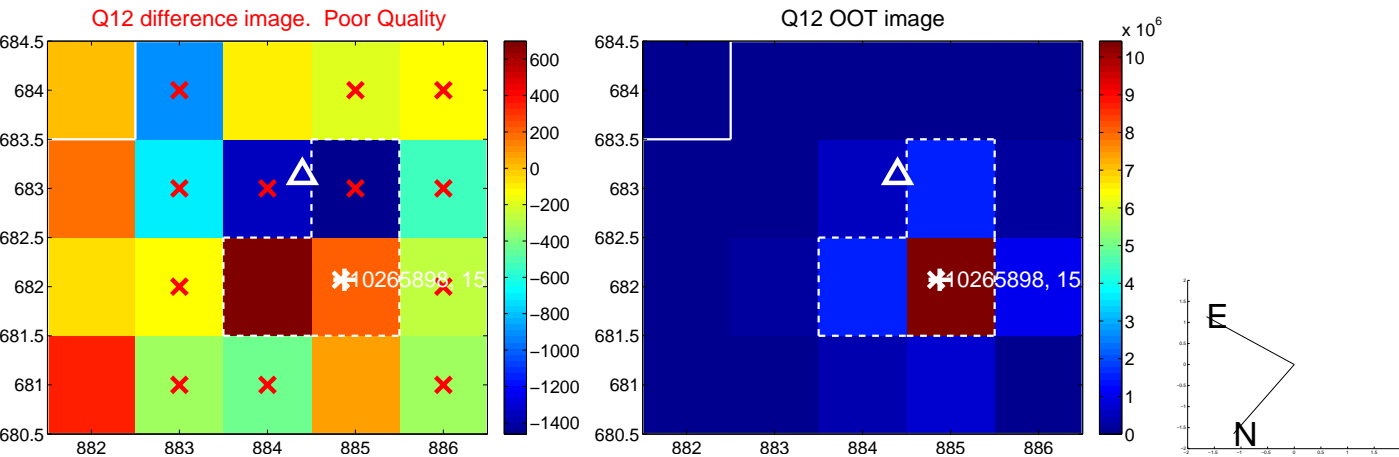
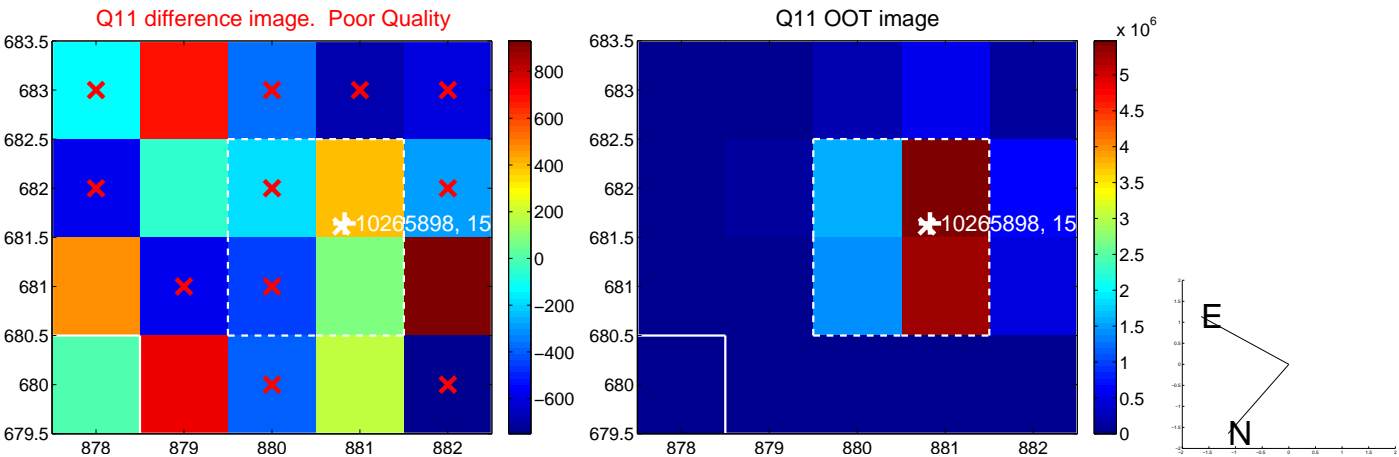
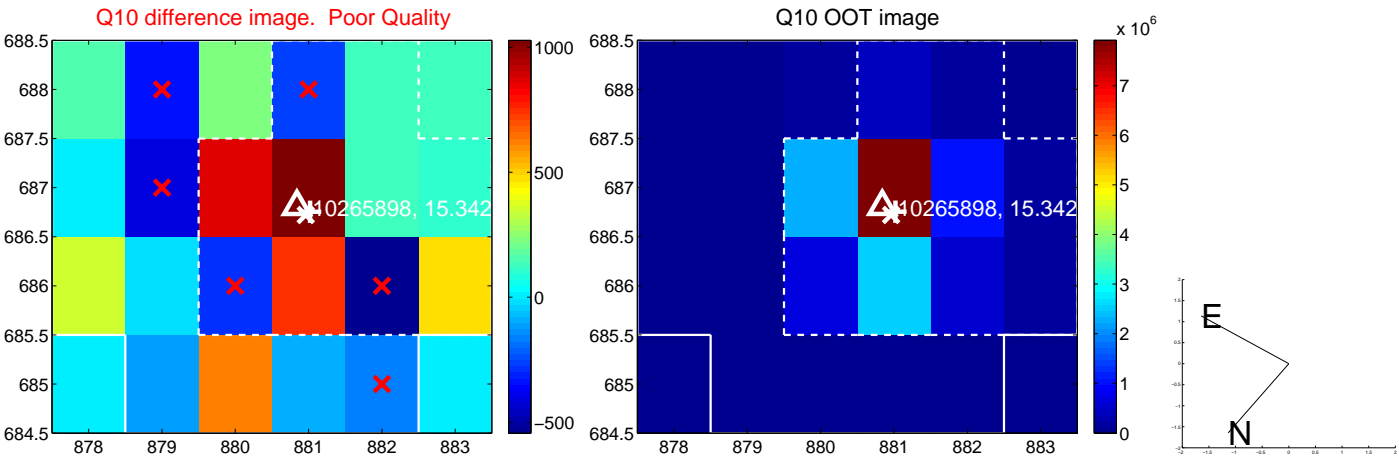
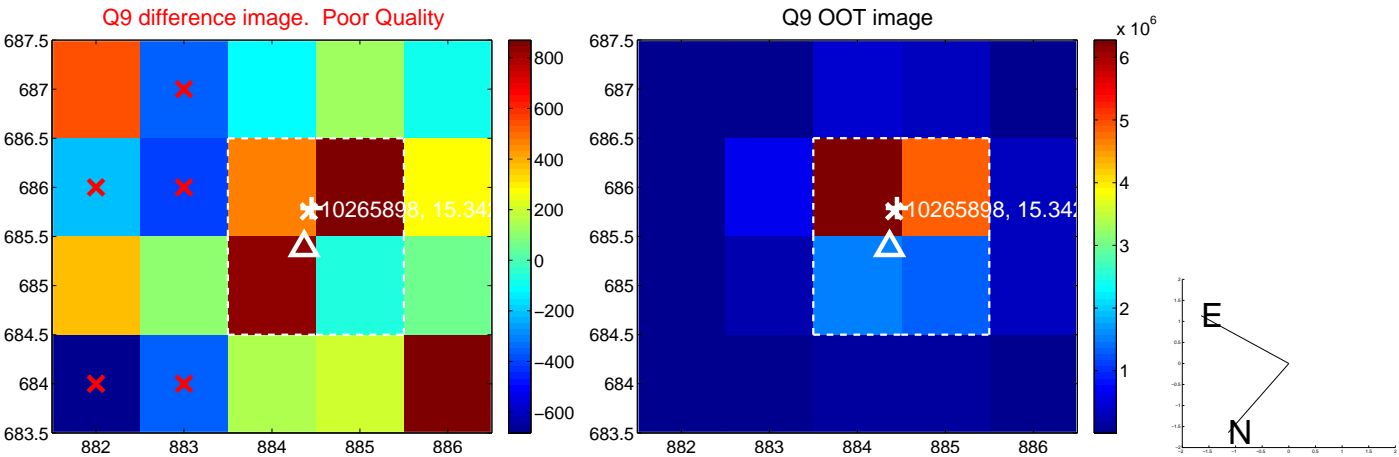
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



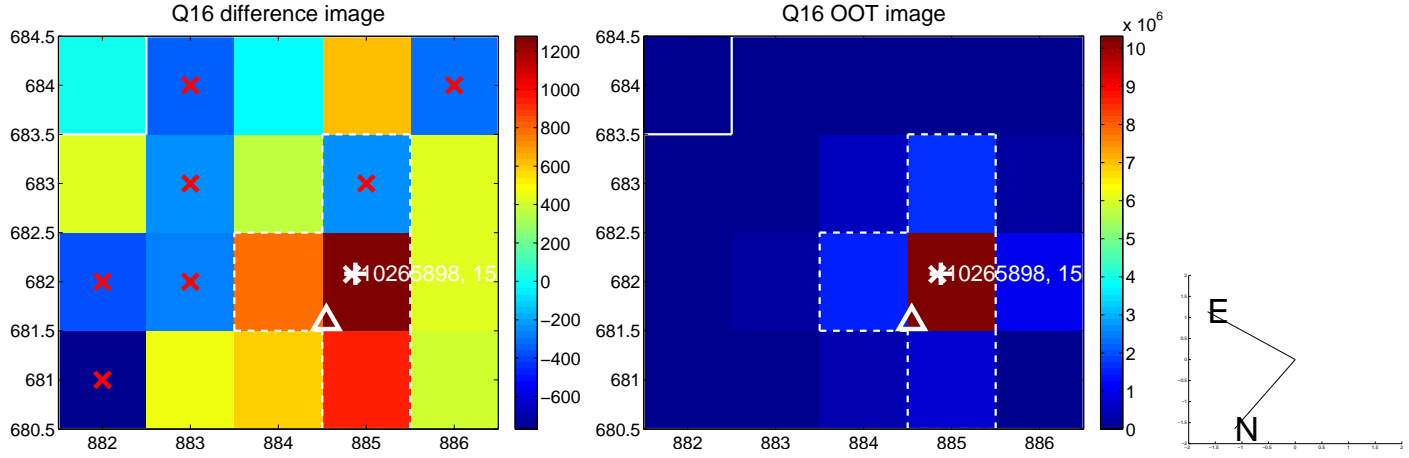
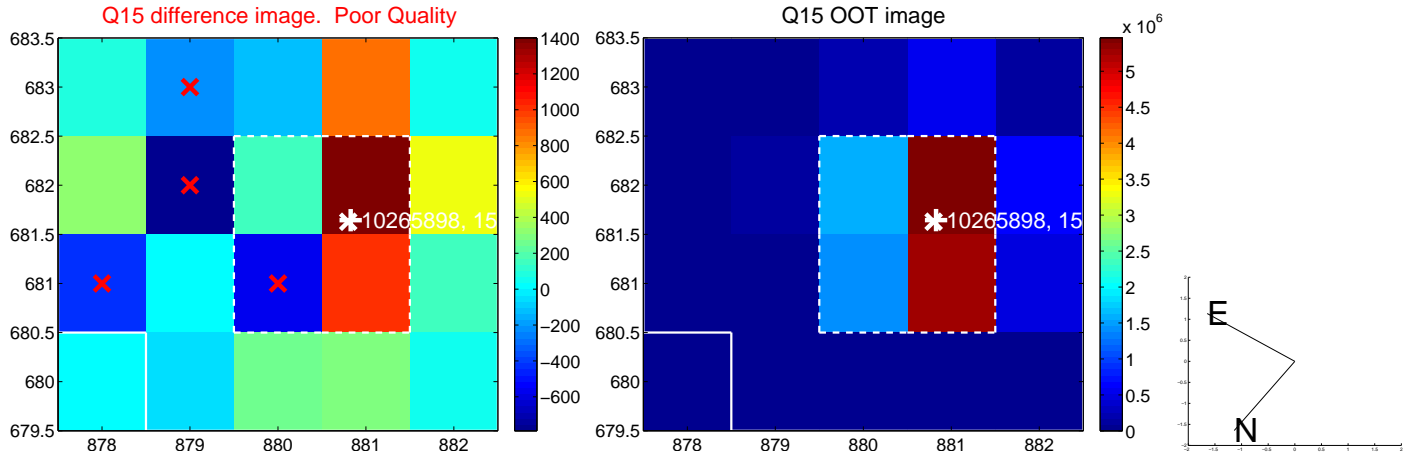
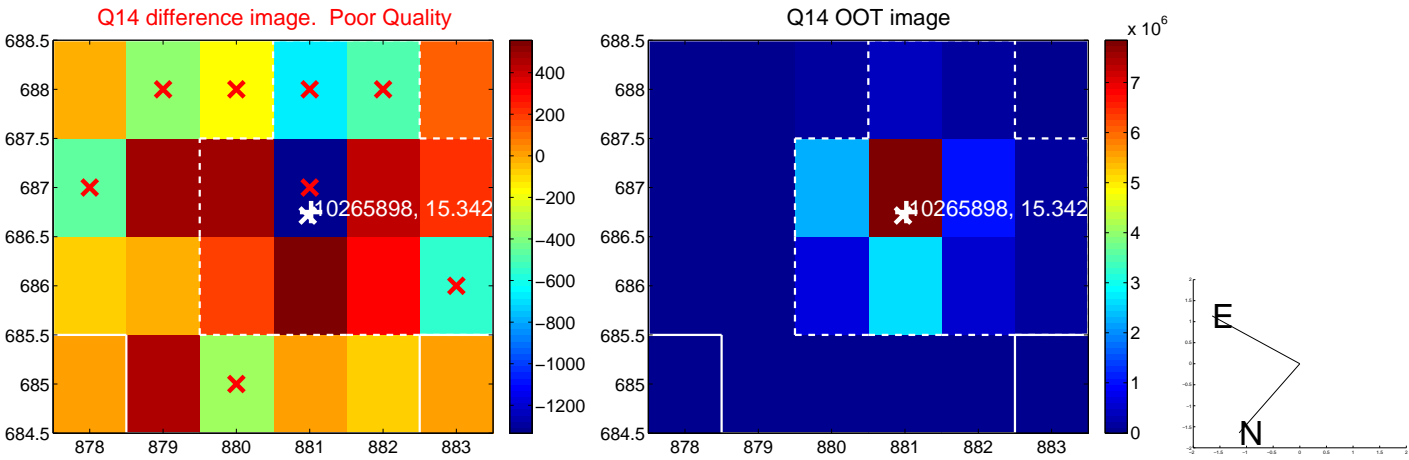
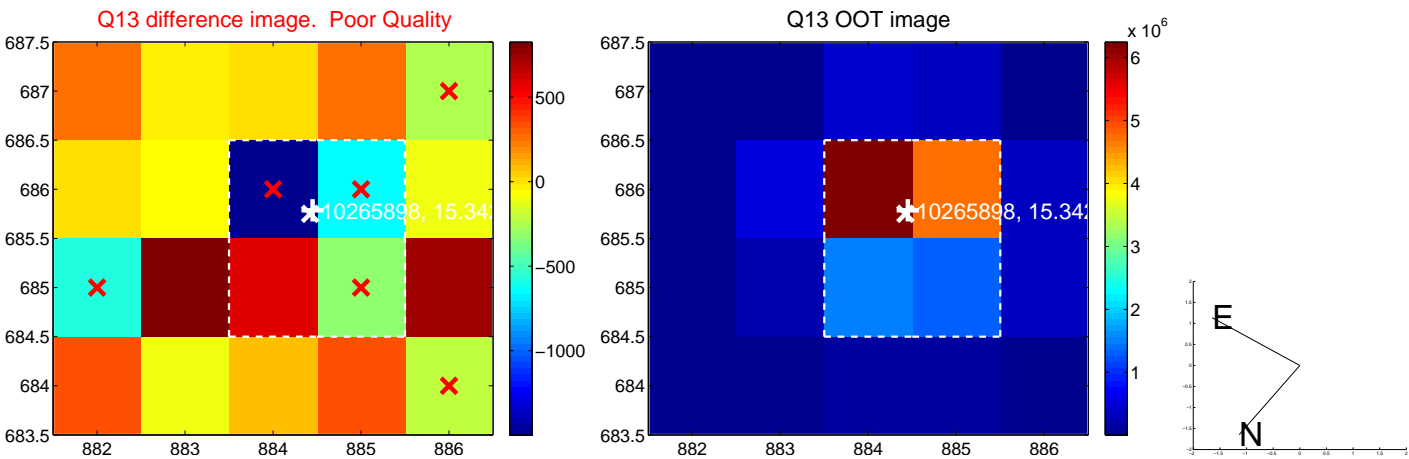
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



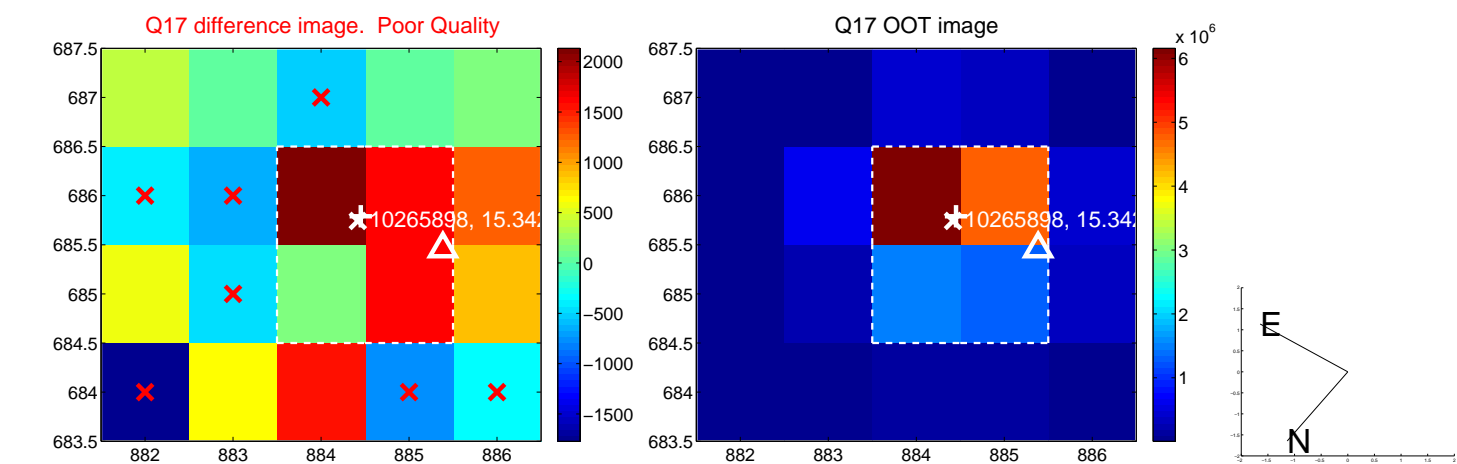
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



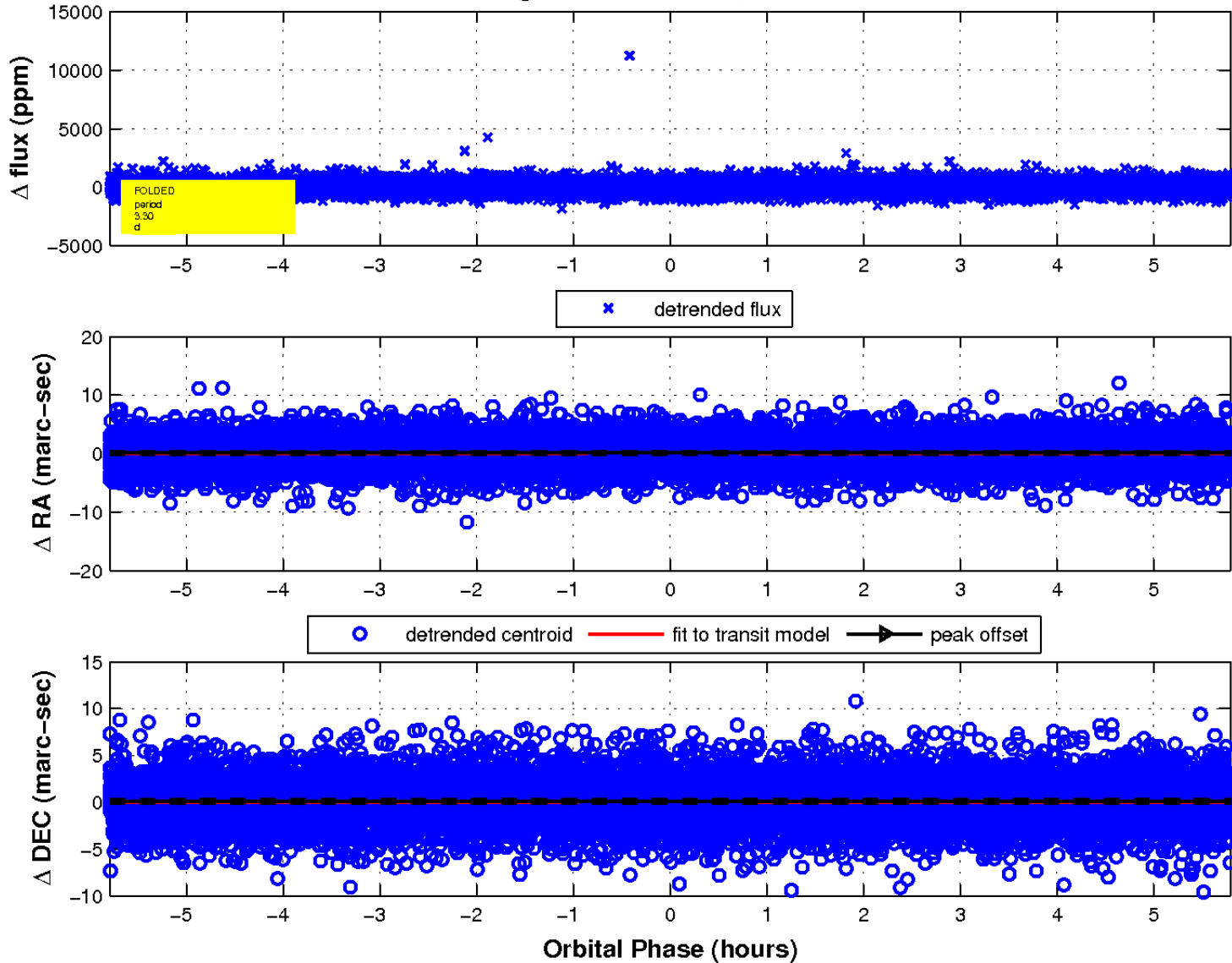
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

