

KIC 008292758

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})
008292758-01	OBS	No	505.450043	454.773442	2255.1	4.132	15.2	8.2	0.59	3982	2.84	0.07
008292758-02	OBS	No	445.859272	307.011981	1570.2	15.607	11.8	4.7	0.59	3982	2.34	0.09
008292758-03	OBS	No	315.735889	421.506944	1636.6	3.803	11.6	6.8	0.59	3982	2.36	0.14
008292758-04	OBS	No	423.034398	344.754944	2671.7	11.052	13.5	8.3	0.59	3982	3.06	0.09
008292758-05	OBS	No	666.525391	234.991627	2325.9	6.343	14.4	8.2	0.59	3982	2.78	0.05

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008292758-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008292758-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008292758-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008292758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_ALT—INCONSISTENT_TRANS
008292758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

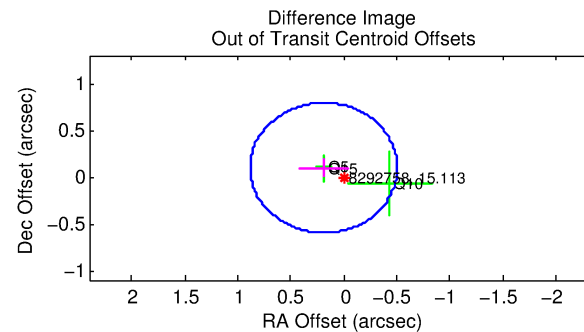
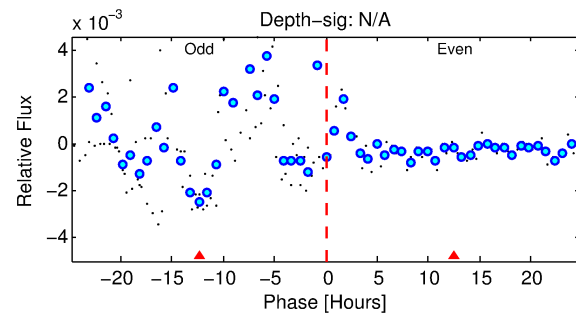
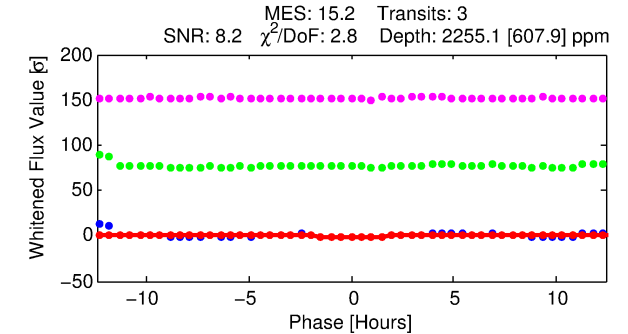
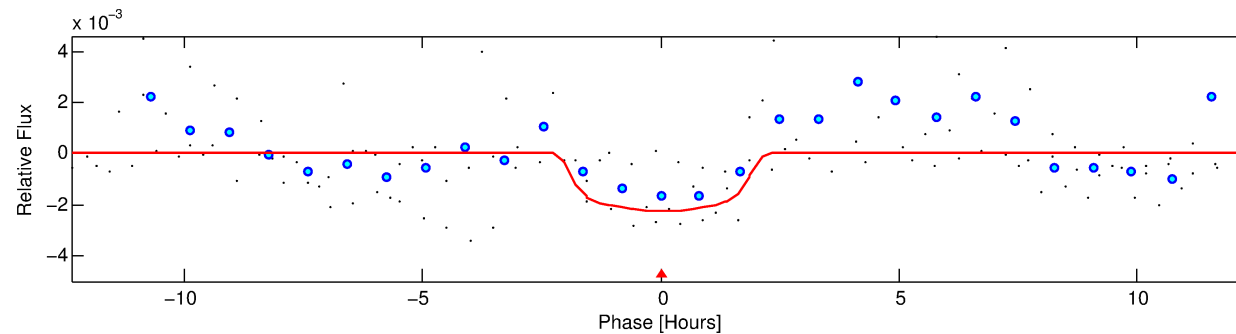
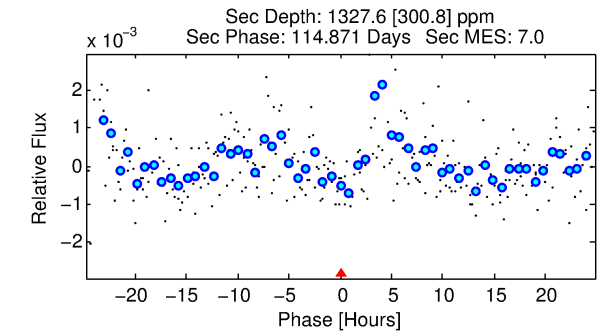
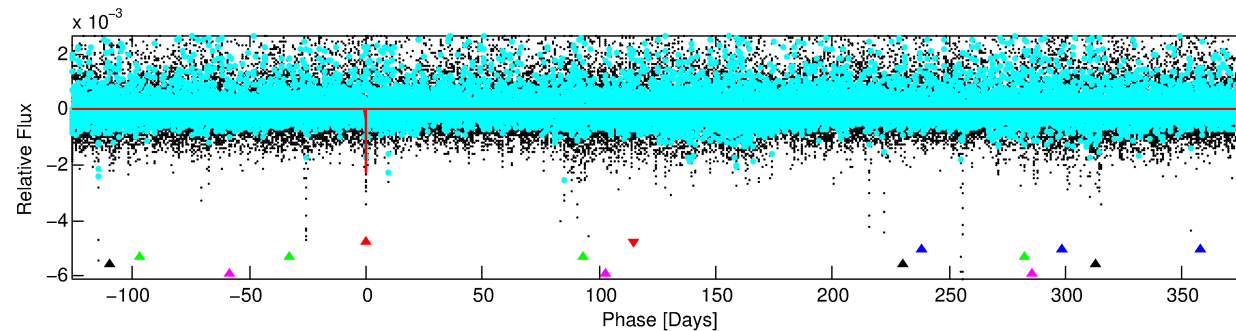
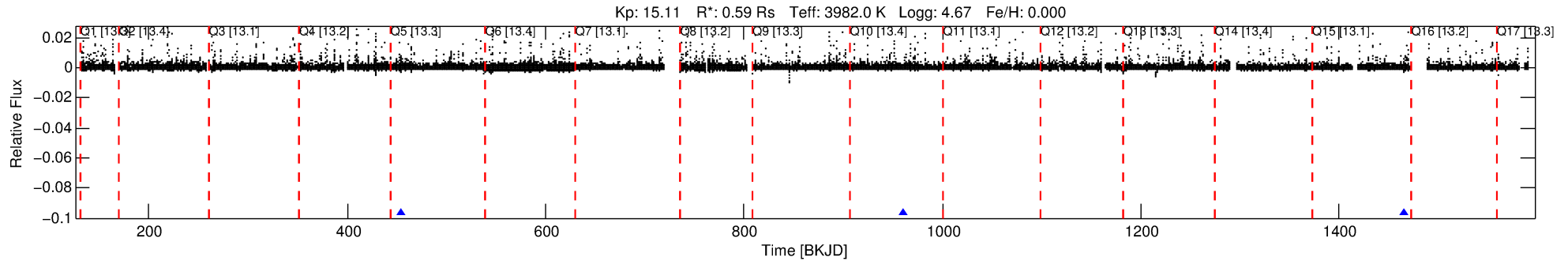
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

Ephemeris Match Information For 008292758-01

No Significant Match Found

KIC: 8292758 Candidate: 1 of 5 Period: 505.450 d



DV Fit Results:

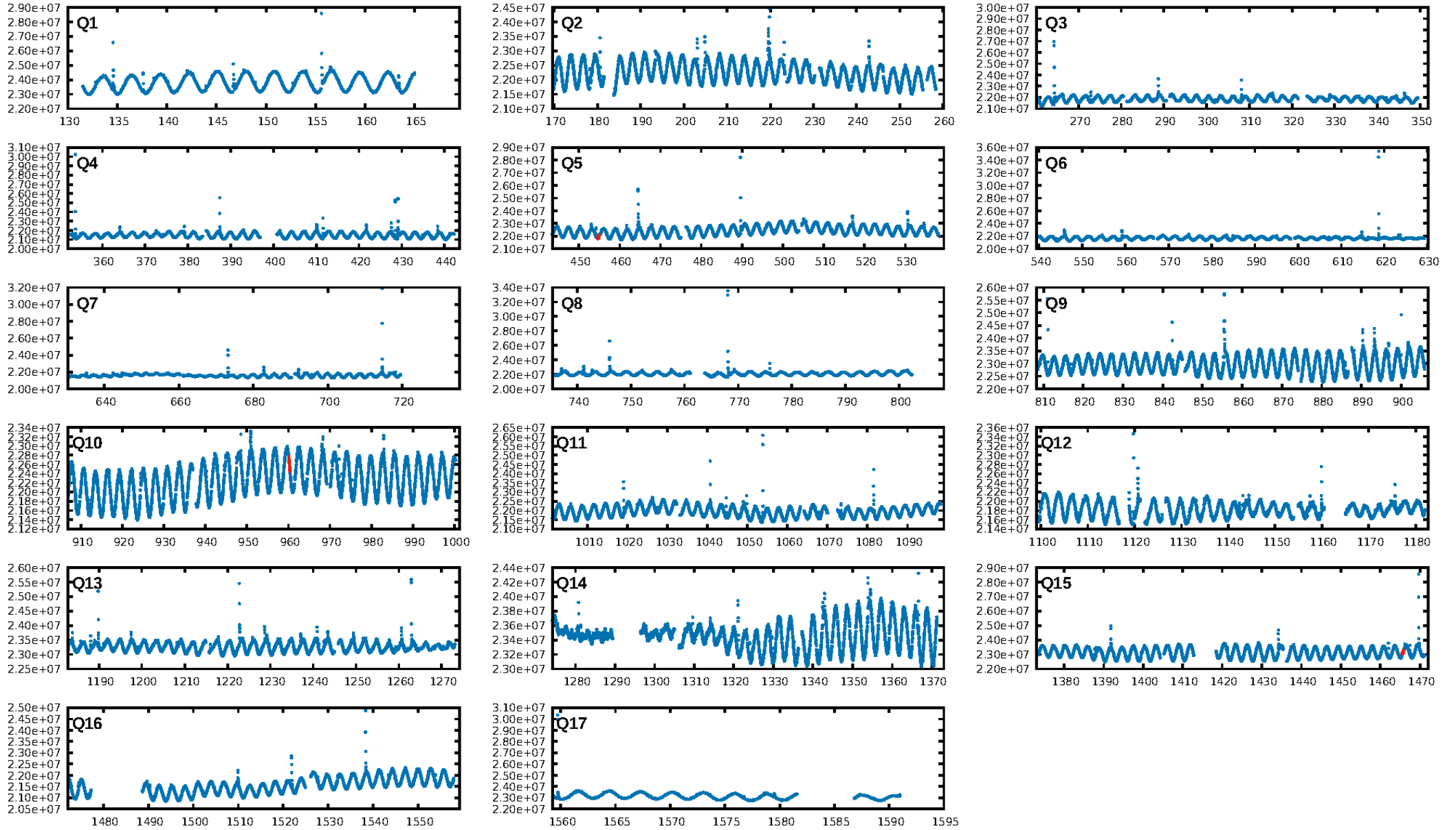
Period = 505.45004 [0.01084] d
 Epoch = 454.7734 [0.0132] BKJD
 Rp/R* = 0.0444 [0.01017]
 a/R* = 841.11 [7016.70]
 b = 0.53 [11.52]
 Seff = 0.07 [0.01]
 Teq = 132 [4] K
 Rp = 2.84 [6.52] Re
 a = 1.0381 [0.0475] AU
 Ag = 97472.63 [447571.74] [0.22]
 Teffp = 3609 [4143] K [0.84c]

DV Diagnostic Results:

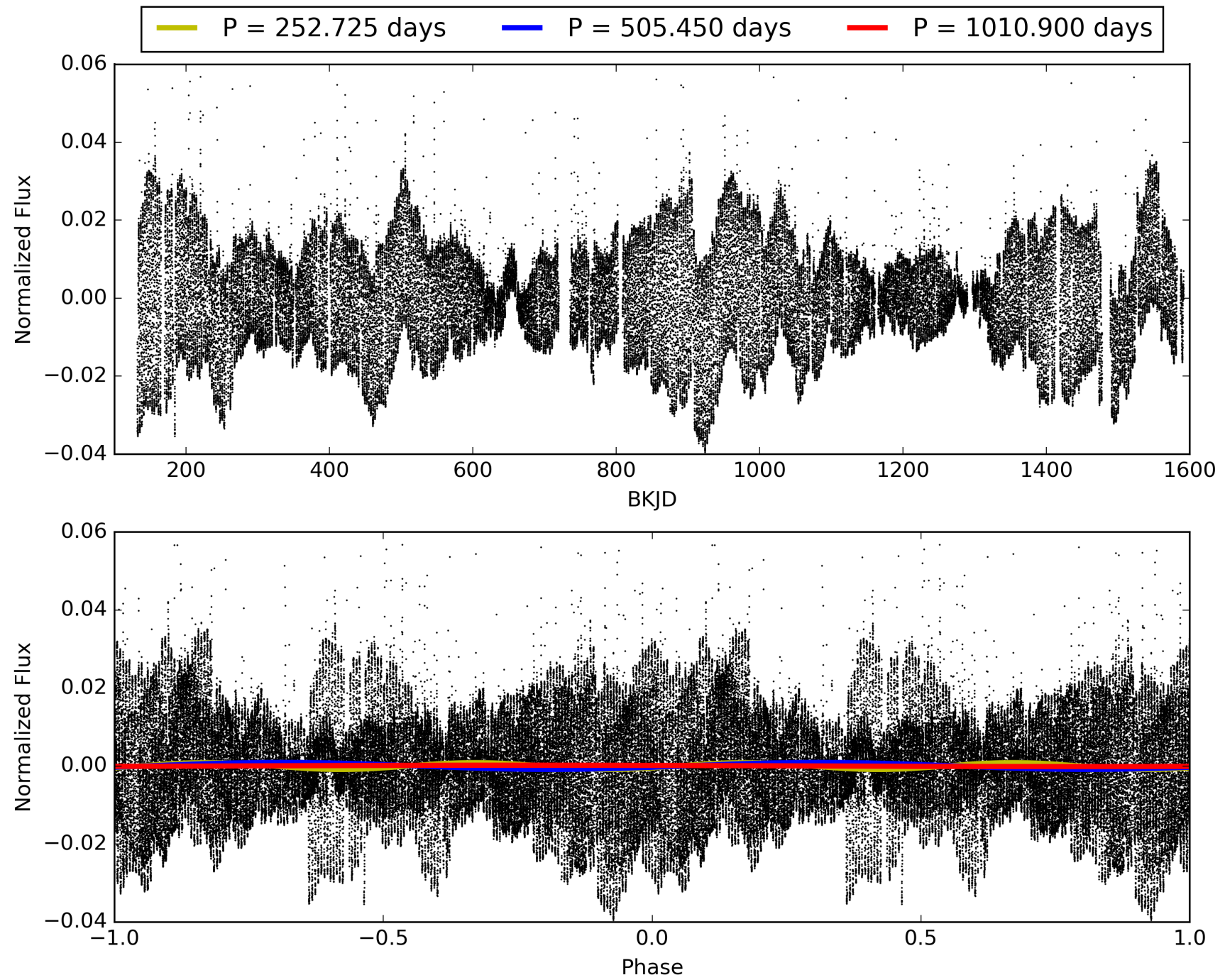
ShortPeriod-sig: 100.0% [88.59σ]
LongPeriod-sig: 100.0% [510.65σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 1.1%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 3.295

Centroid-sig: 3.6%
Centroid-so: 0.741 arcsec [1.25σ]
OotOffset-rm: 0.212 arcsec [0.91σ]
KicOffset-rm: 0.143 arcsec [0.97σ]
OotOffset-st: 1/1/0/1 [3]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 008292758-01, PDC Light Curves

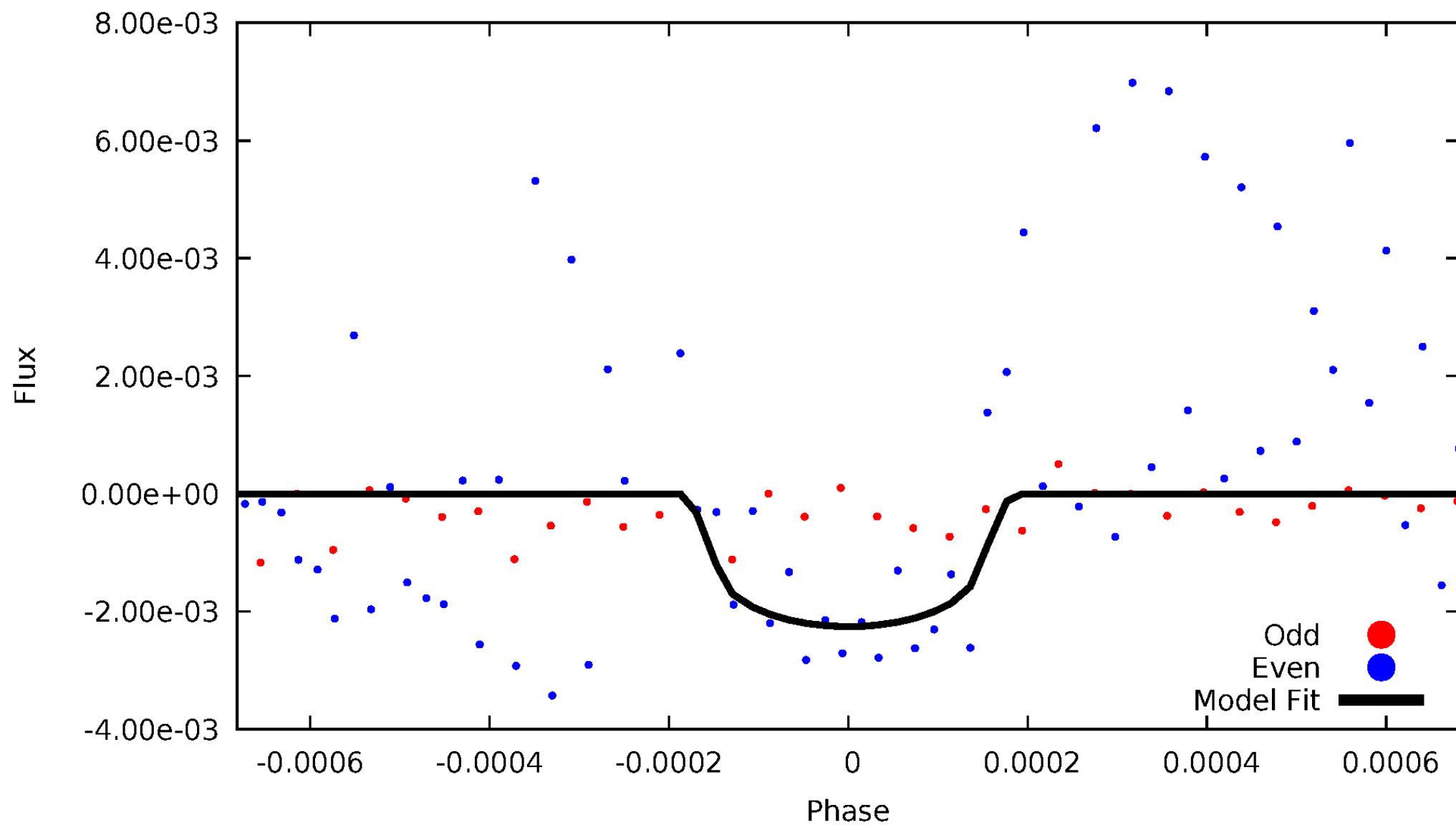


TCE 008292758-01



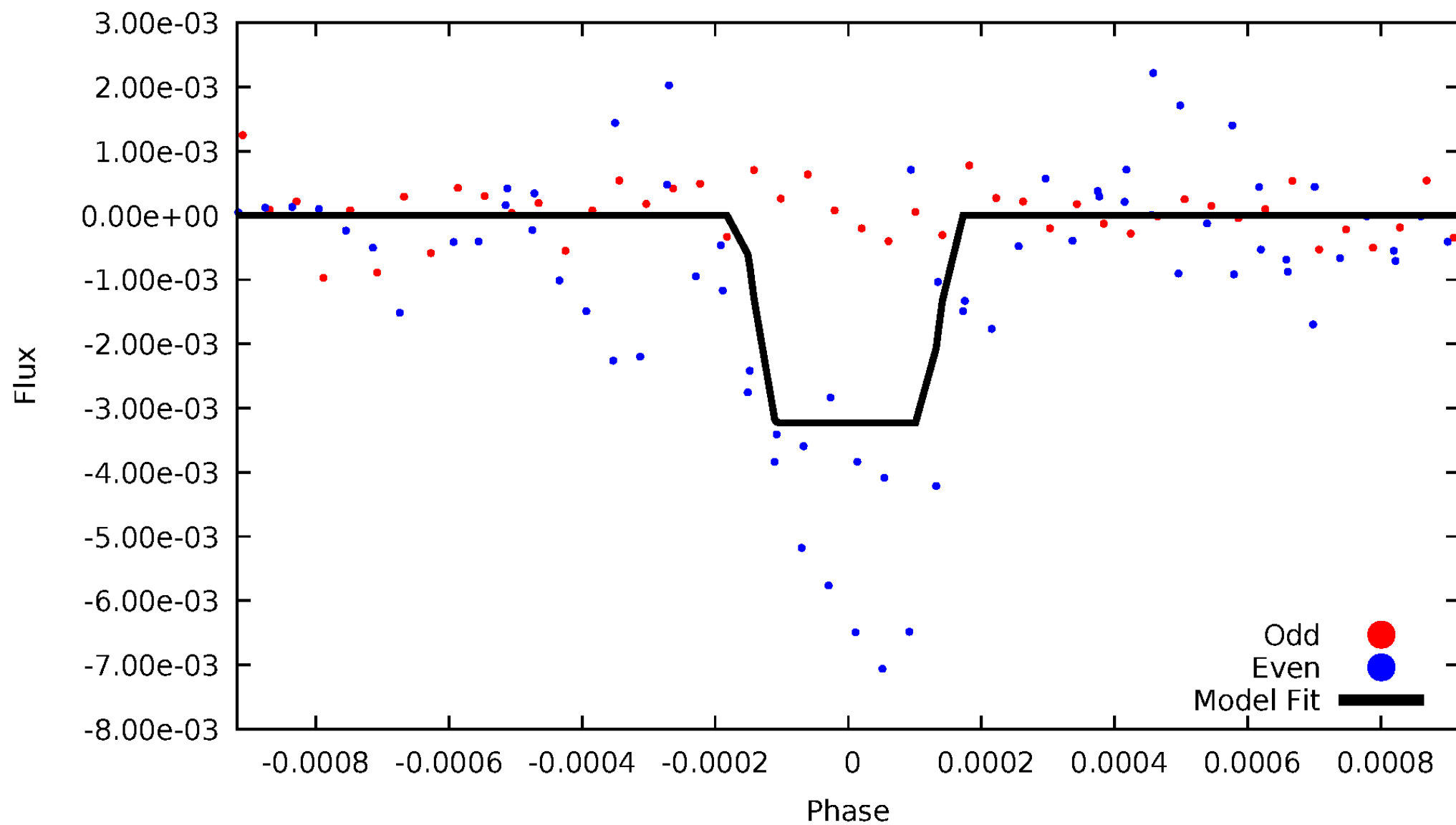
DV Odd/Even

TCE 008292758-01



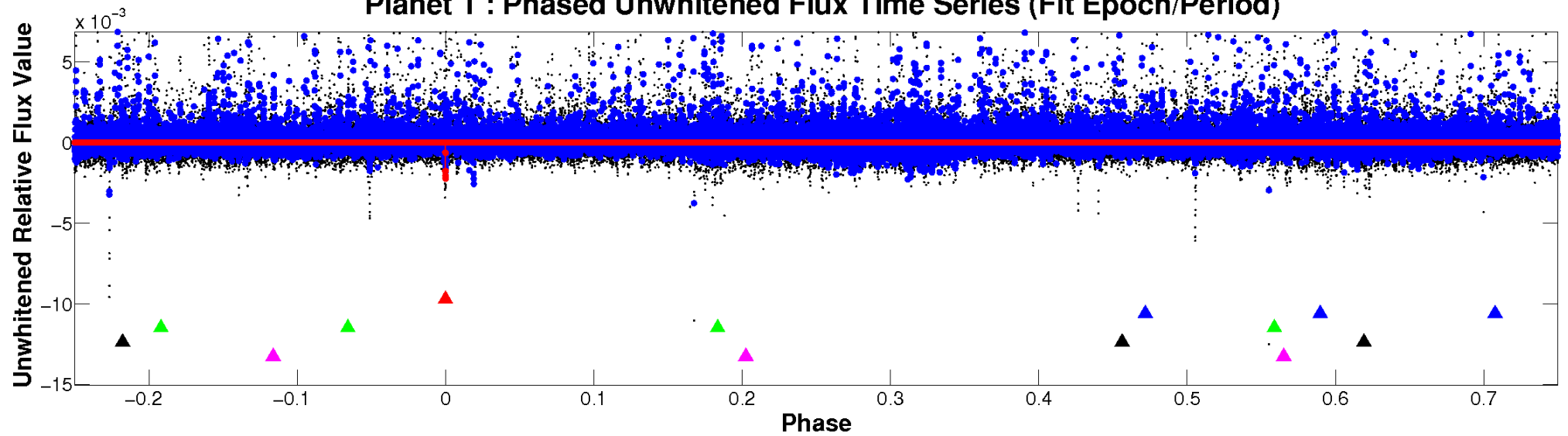
ALT Odd/Even

TCE 008292758-01

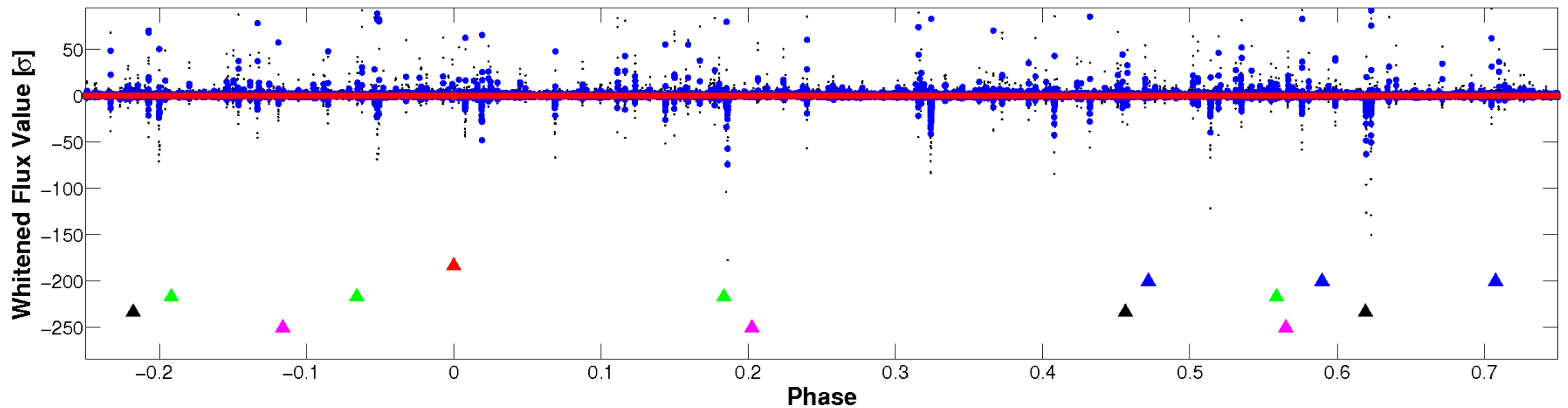


Non-Whitened Vs. Whitened Light Curve

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

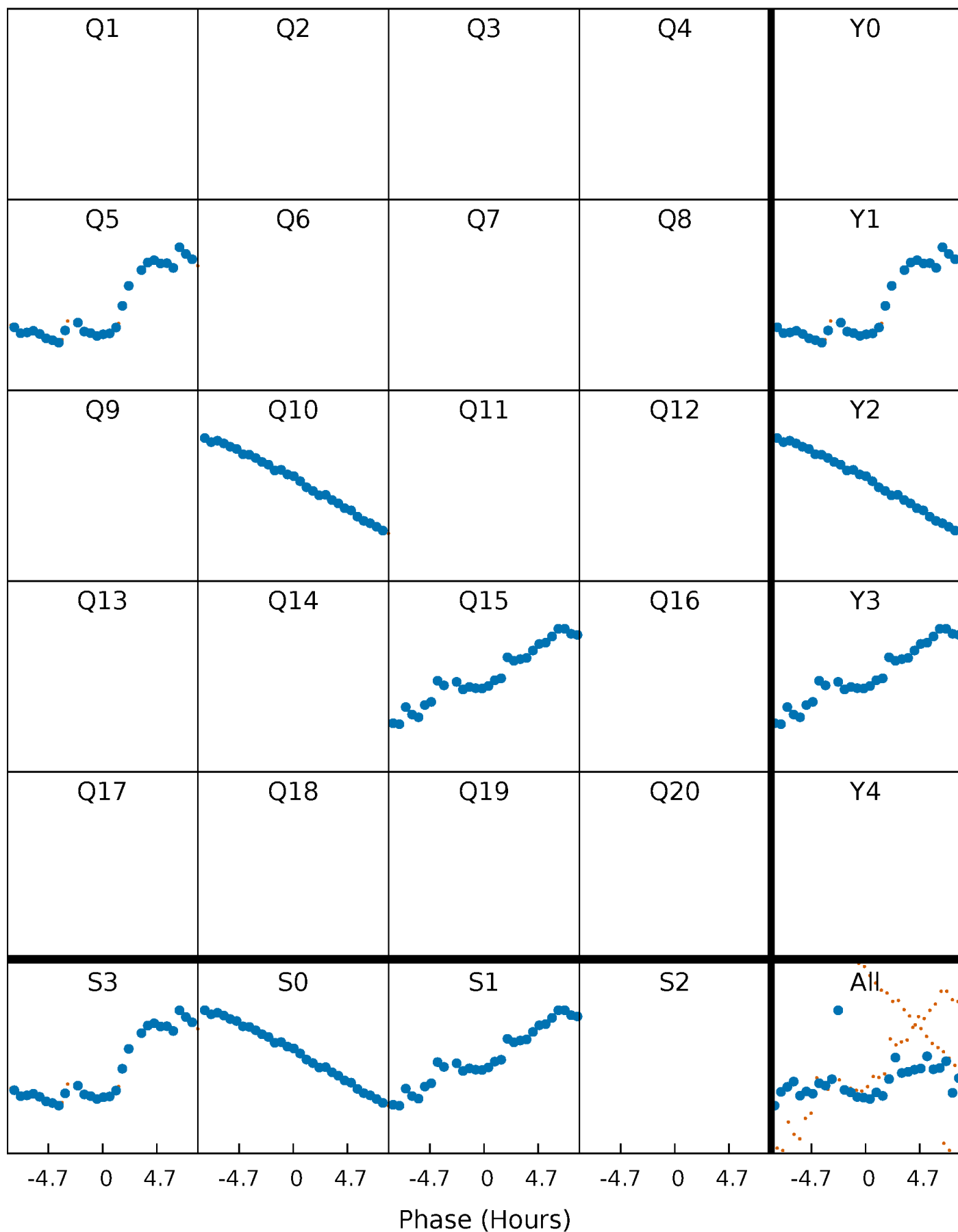


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



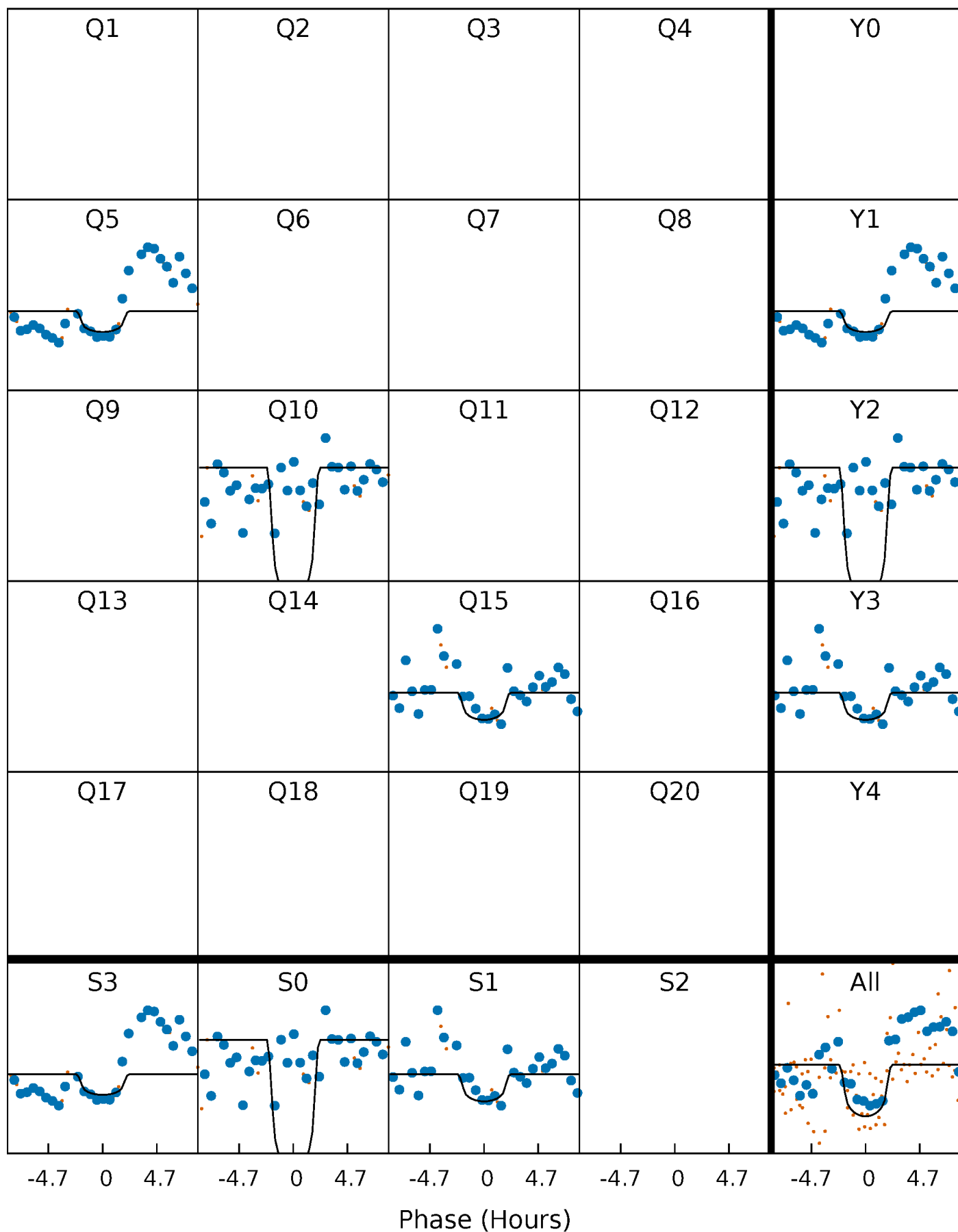
PDC Quarter-Phased Transit Curves

TCE 008292758-01 P=505.450043 Days $T_0=454.773442$ (BKJD)



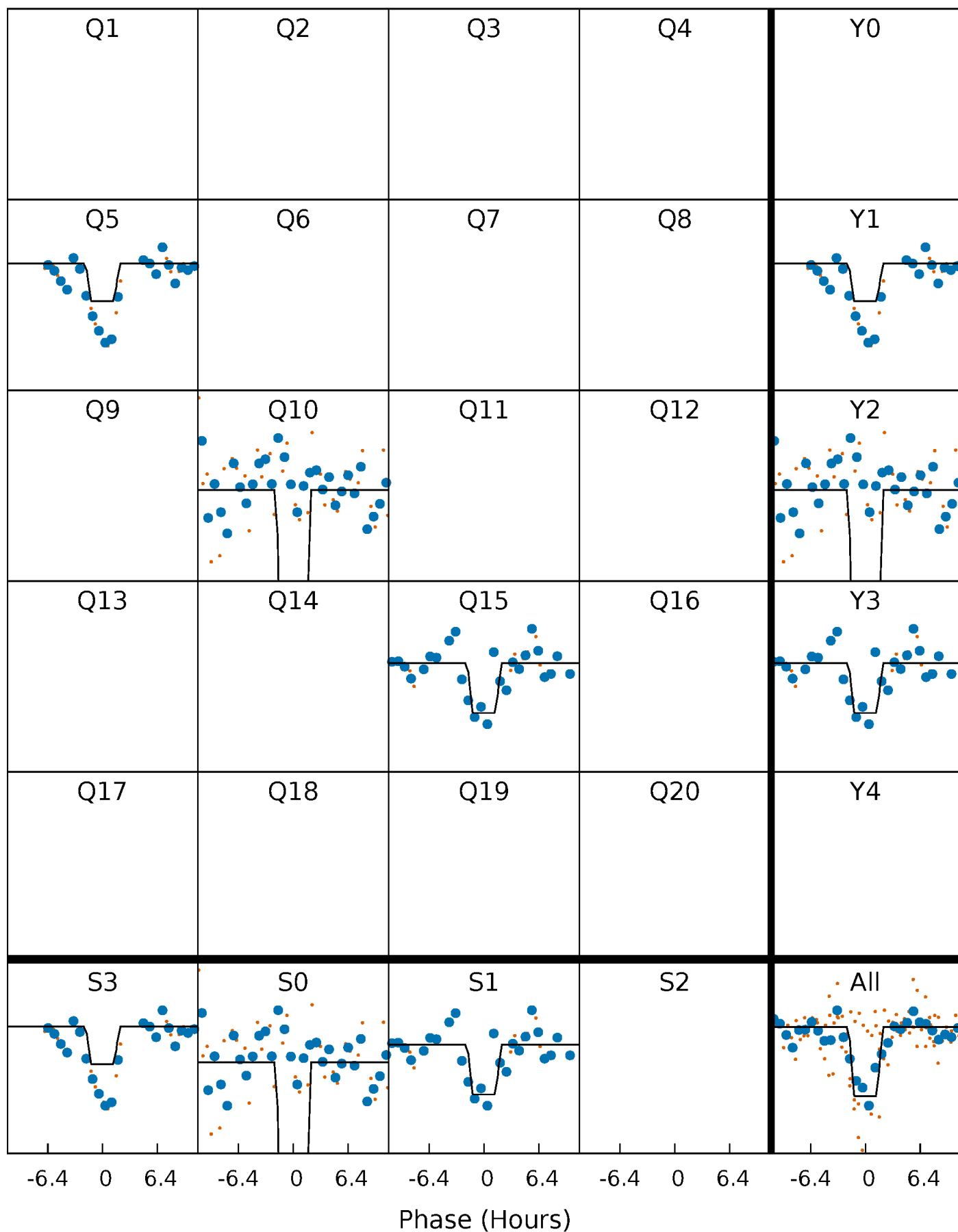
DV Quarter-Phased Transit Curves

TCE 008292758-01 P=505.450043 Days $T_0=454.773442$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

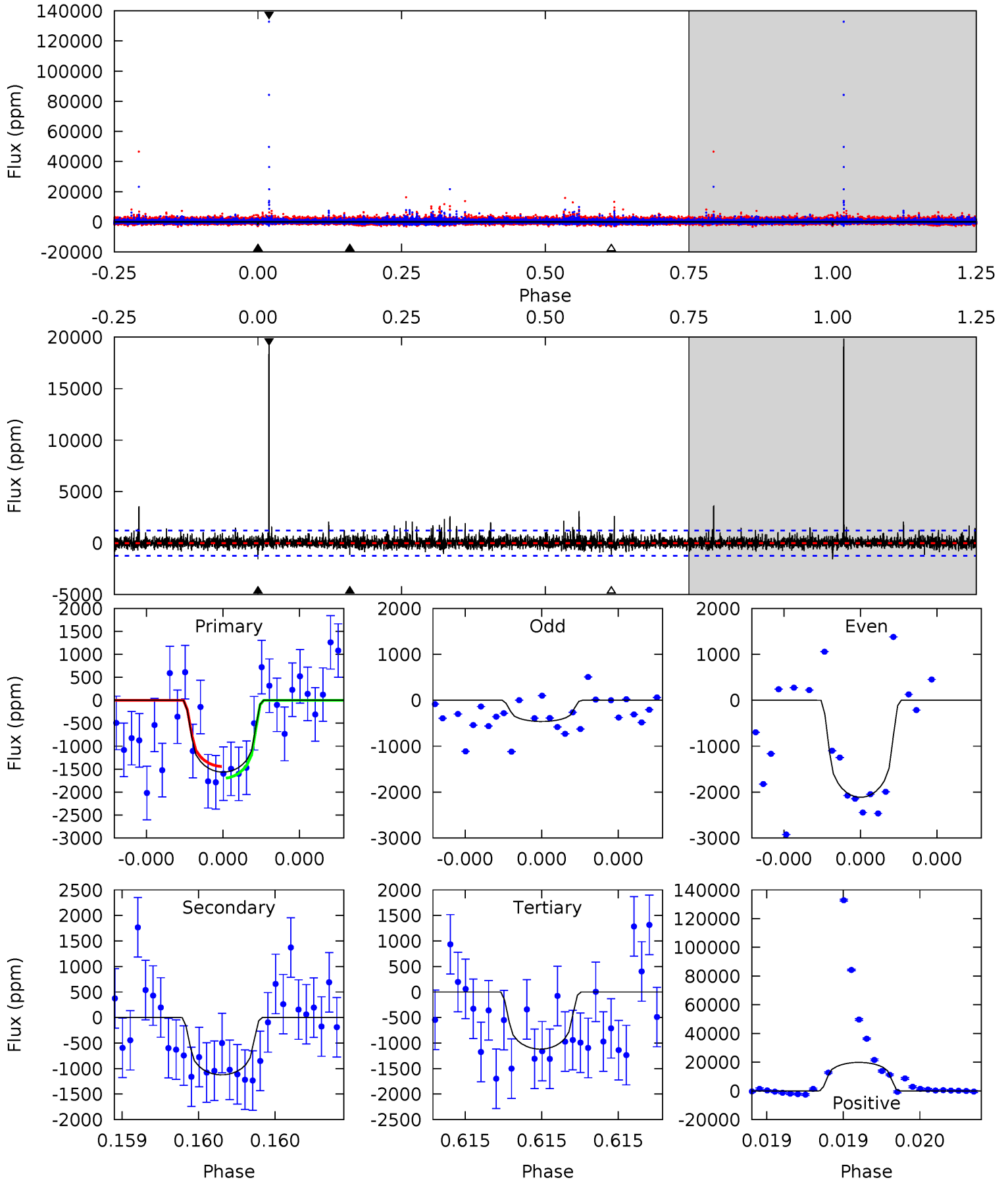
TCE 008292758-01 P=505.464974 Days $T_0=454.785099$ (BKJD)



DV Model-Shift Uniqueness Test

008292758-01, P = 505.450043 Days, E = 454.773442 Days

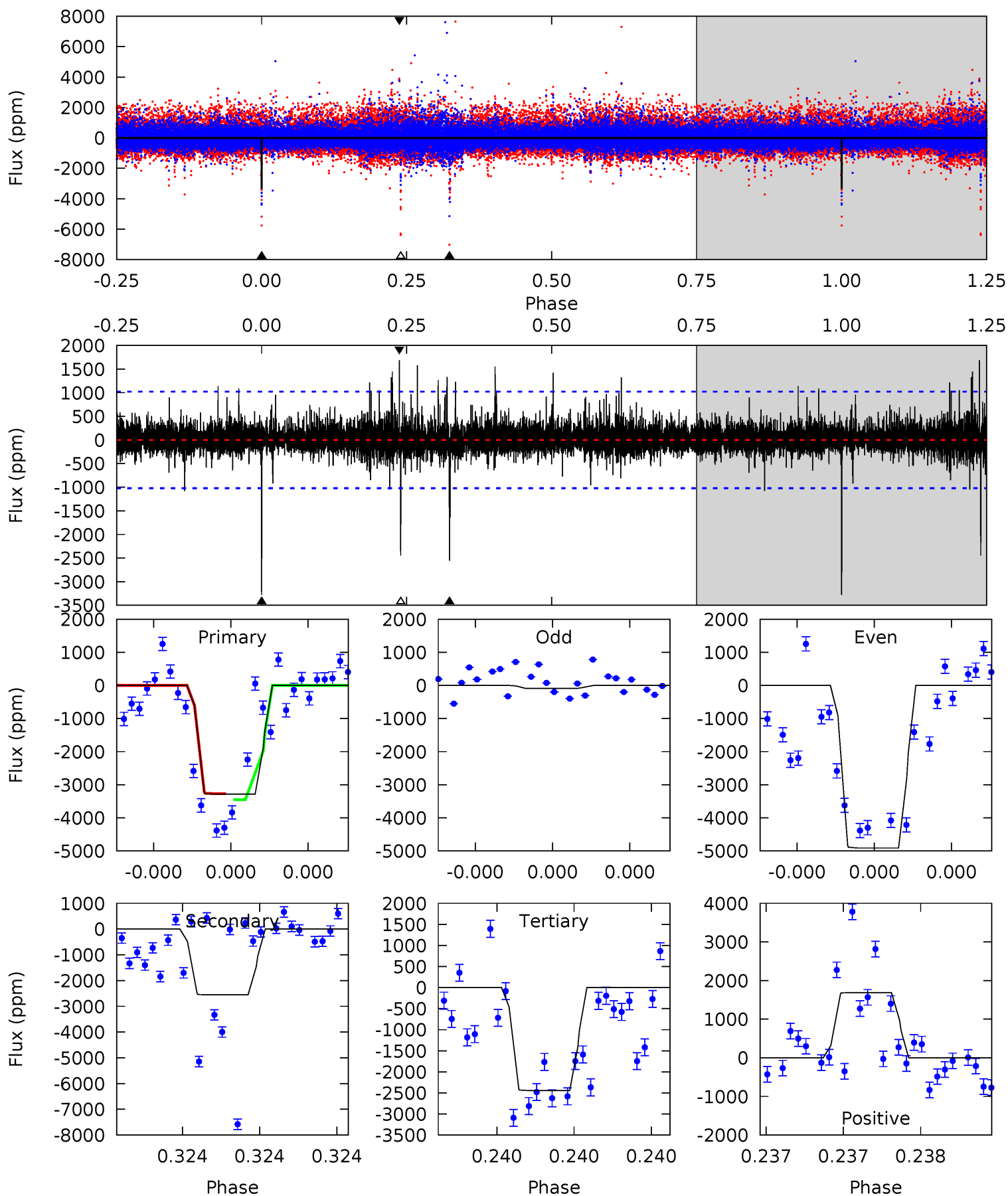
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.15	5.13	5.12	90.8	5.63	3.57	2.16	2.04	-83.6	0.02	-85.7	0.89	0.87	0.93	0.58



Alt Model-Shift Uniqueness Test

008292758-01, P = 505.464974 Days, E = 454.785099 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.1	14.1	13.5	9.33	5.65	3.60	1.10	4.64	8.80	0.62	4.78	8.67	1.01	0.34	0.50



Stellar Parameters For KIC 008292758

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3982^{+87}_{-87}	$4.667^{+0.038}_{-0.013}$	$0.000^{+0.100}_{-0.100}$	$0.587^{+0.020}_{-0.031}$	$0.584^{+0.030}_{-0.027}$	$4.064^{+0.585}_{-0.245}$
	+2%/-2%	+1%/-0%	+inf%/-inf%	+3%/-5%	+5%/-5%	+14%/-6%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 008292758-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1123 ± 219	$5.63^{+5.01}_{-3.88}$	184^{+4}_{-4}	2946^{+1294}_{-469}	$21306^{+182132}_{-15635}$
Alt.	-2554 ± 181	$6.35^{+5.02}_{-4.27}$	184^{+4}_{-5}	3179^{+1492}_{-448}	$37590^{+308496}_{-25672}$

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 $A_{obs} \gg 1.0$

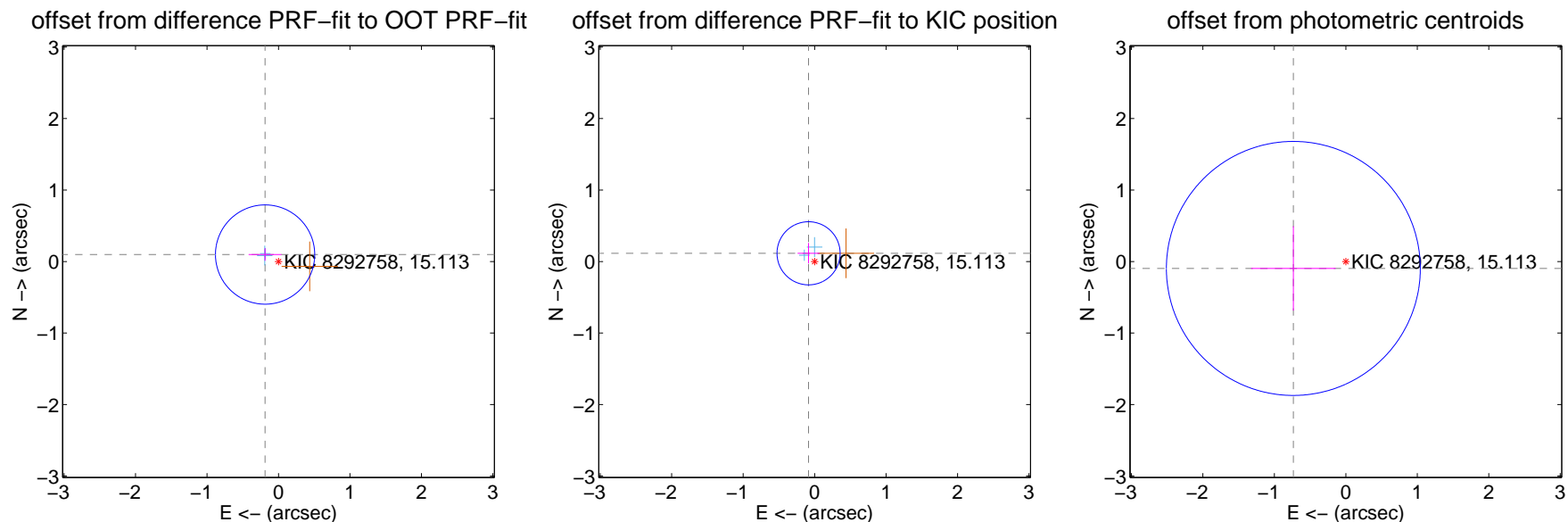
DV Centroid Data

Supplemental centroid analysis for 008292758-01. Kepler magnitude: 15.11. Transit SNR 8.15

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	0.212 ± 0.231	0.91	0.188 ± 0.230	0.098 ± 0.088
PRF-fit source offset from KIC position	0.143 ± 0.147	0.97	0.085 ± 0.153	0.115 ± 0.144
photometric centroid source offset	0.74 ± 0.59	1.25	0.73 ± 0.59	-0.10 ± 0.59

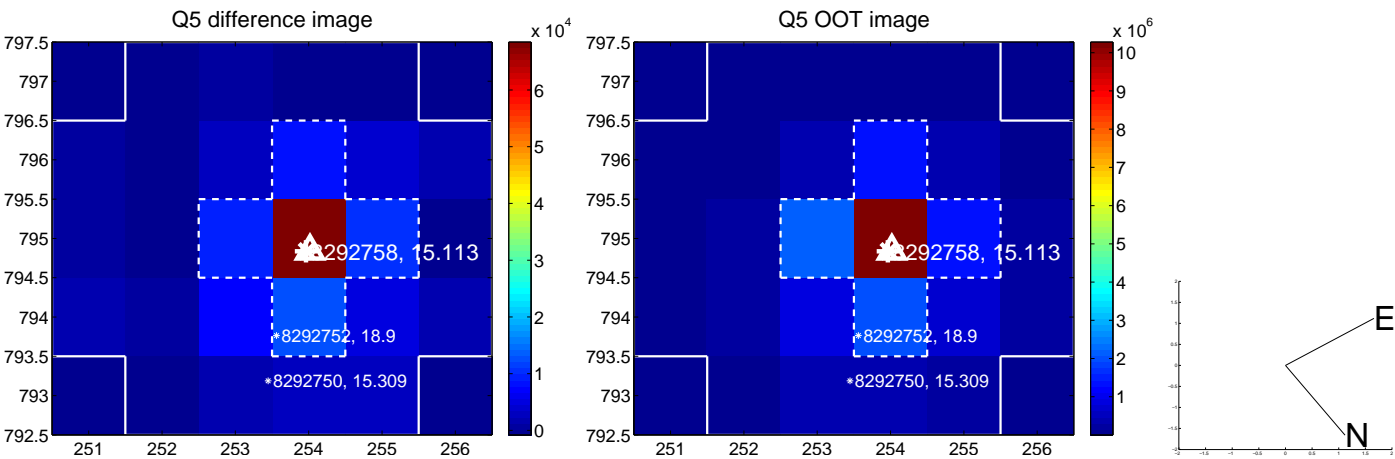


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

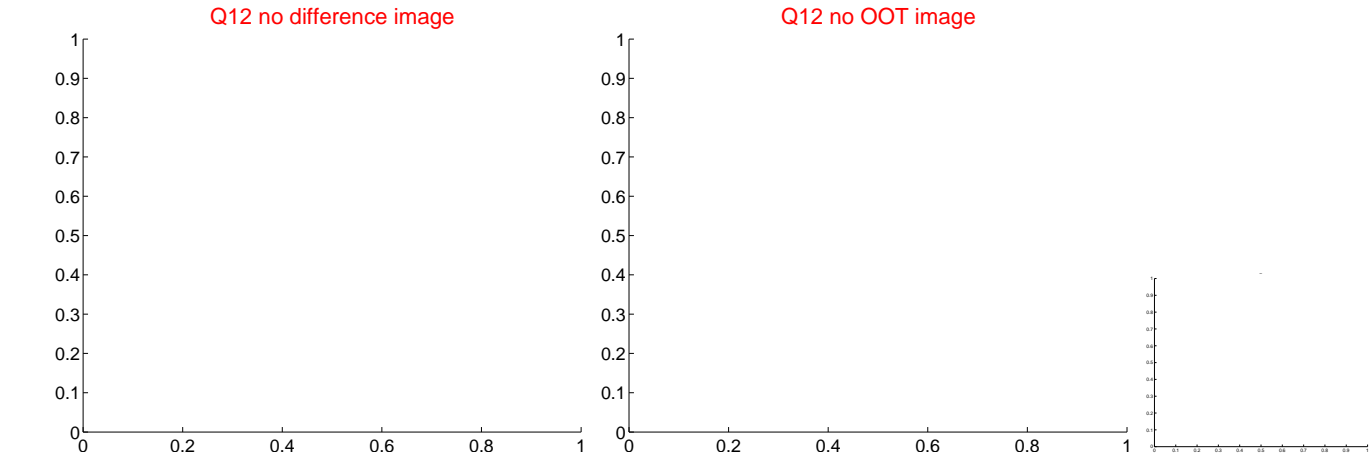
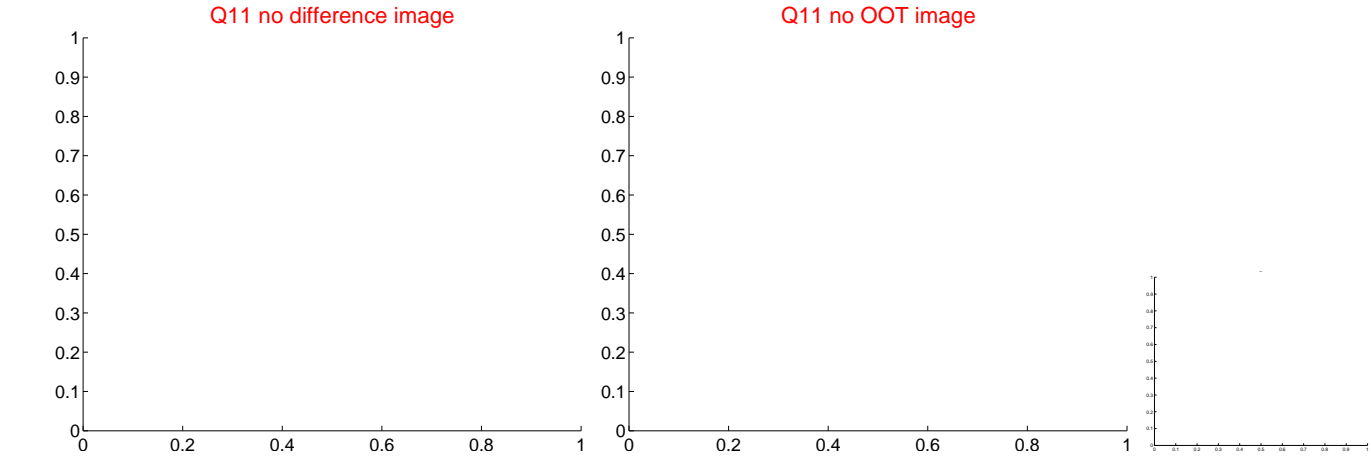
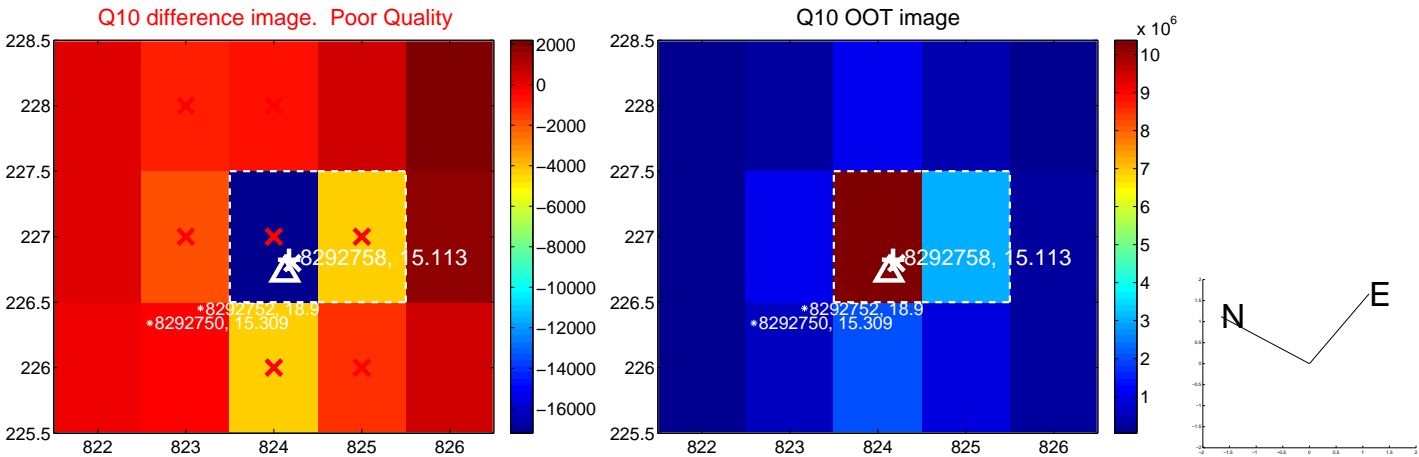
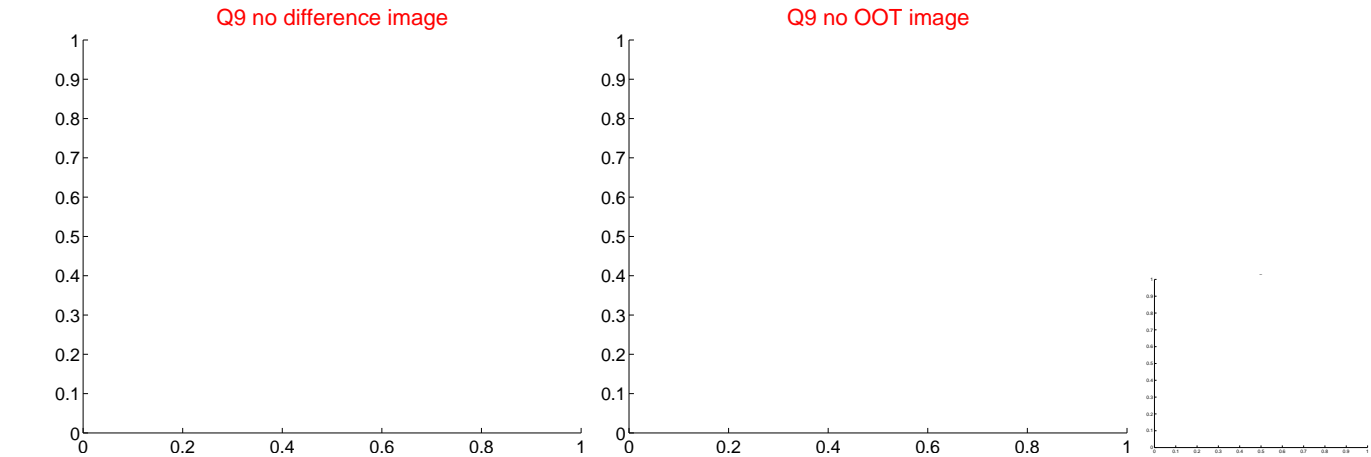
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



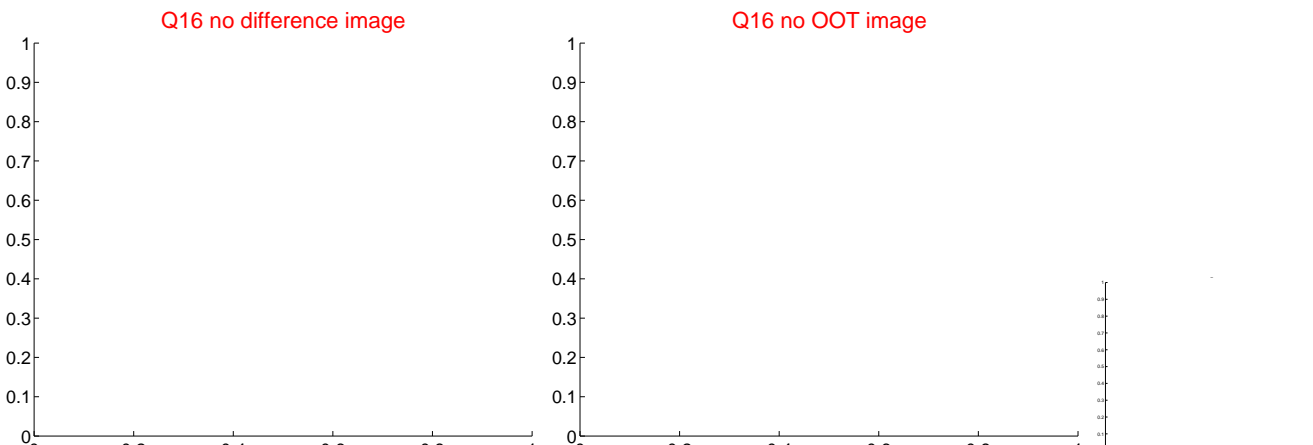
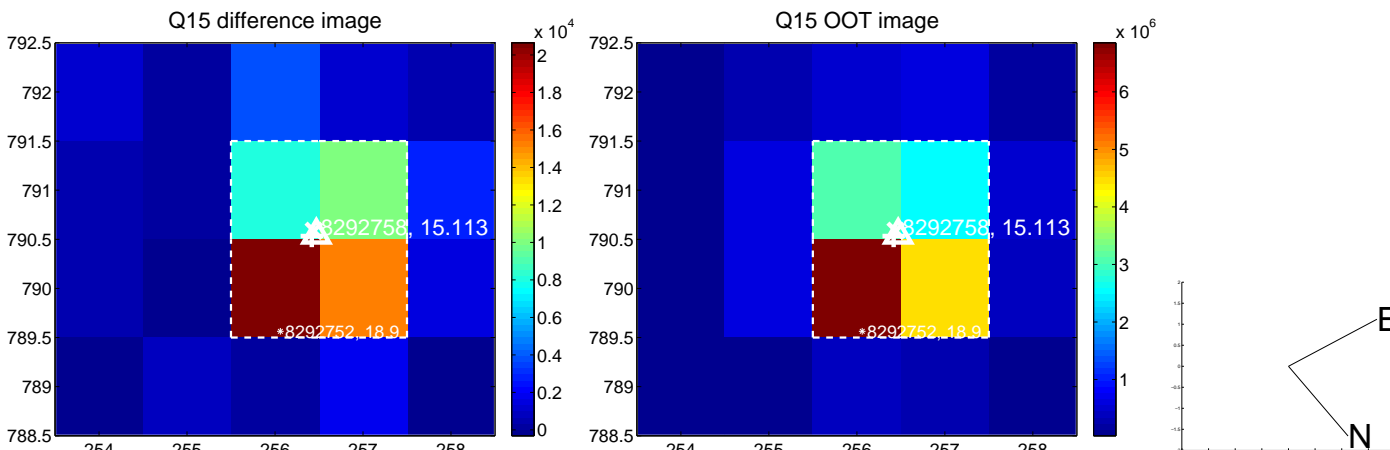
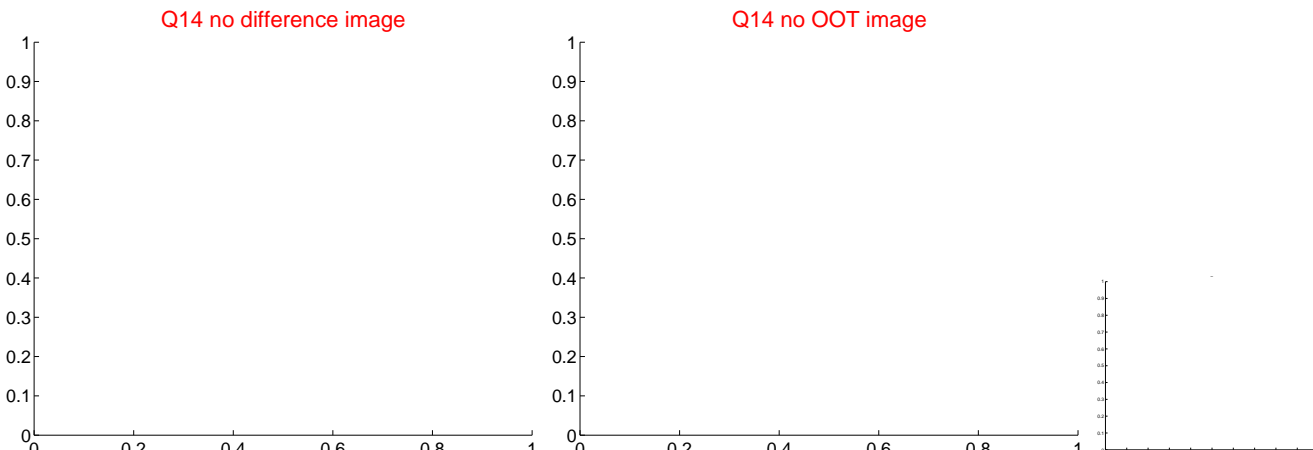
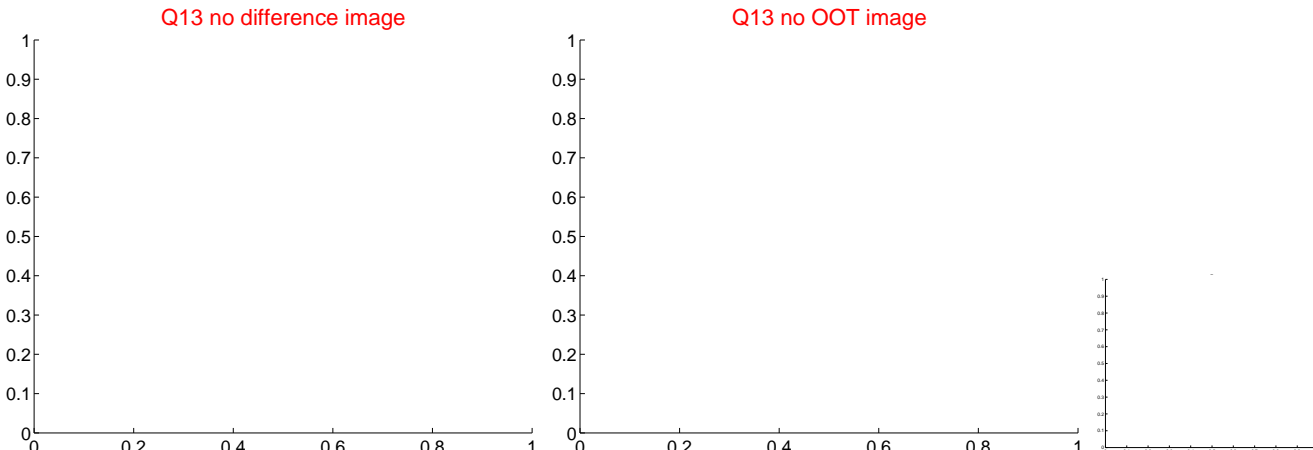
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



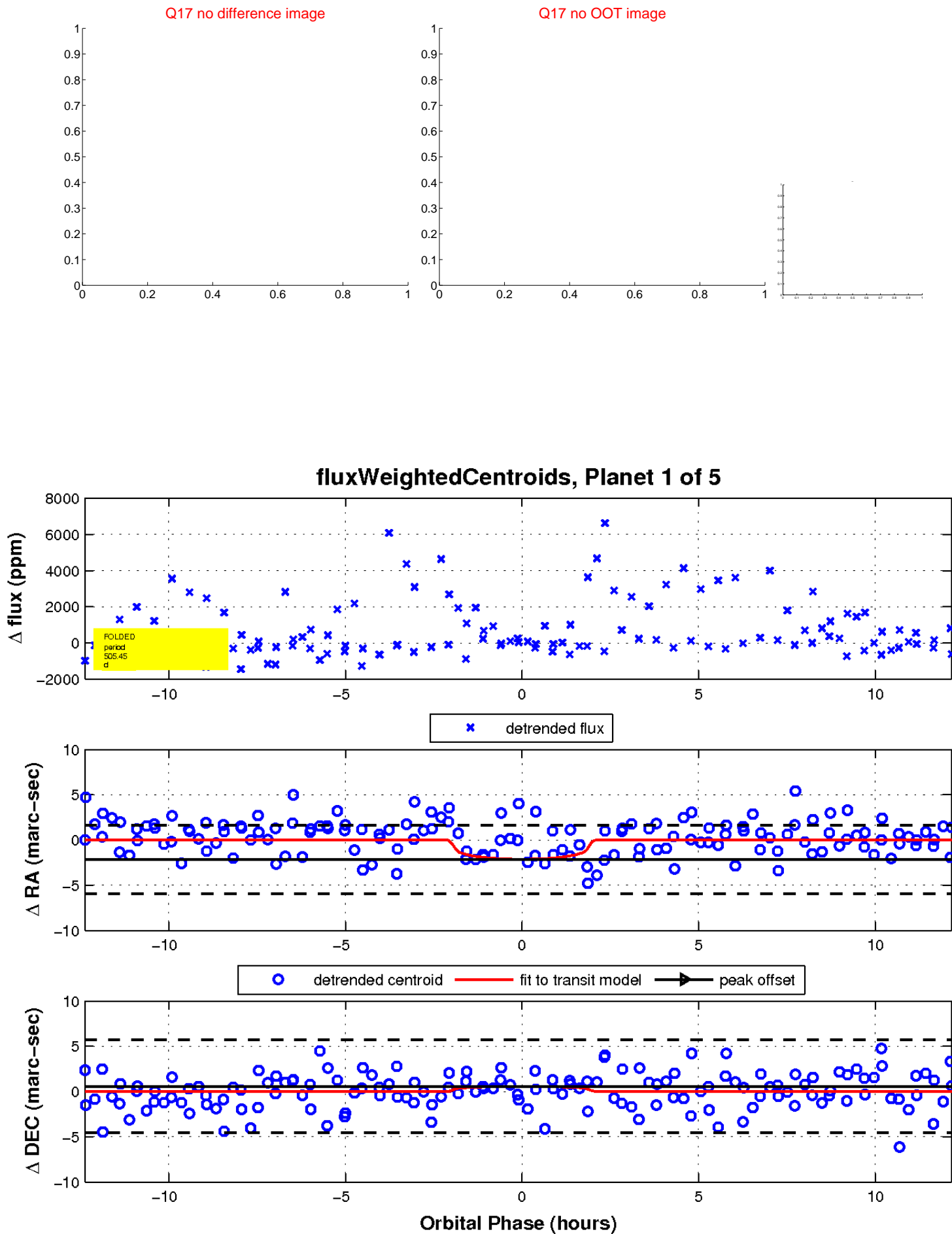
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value

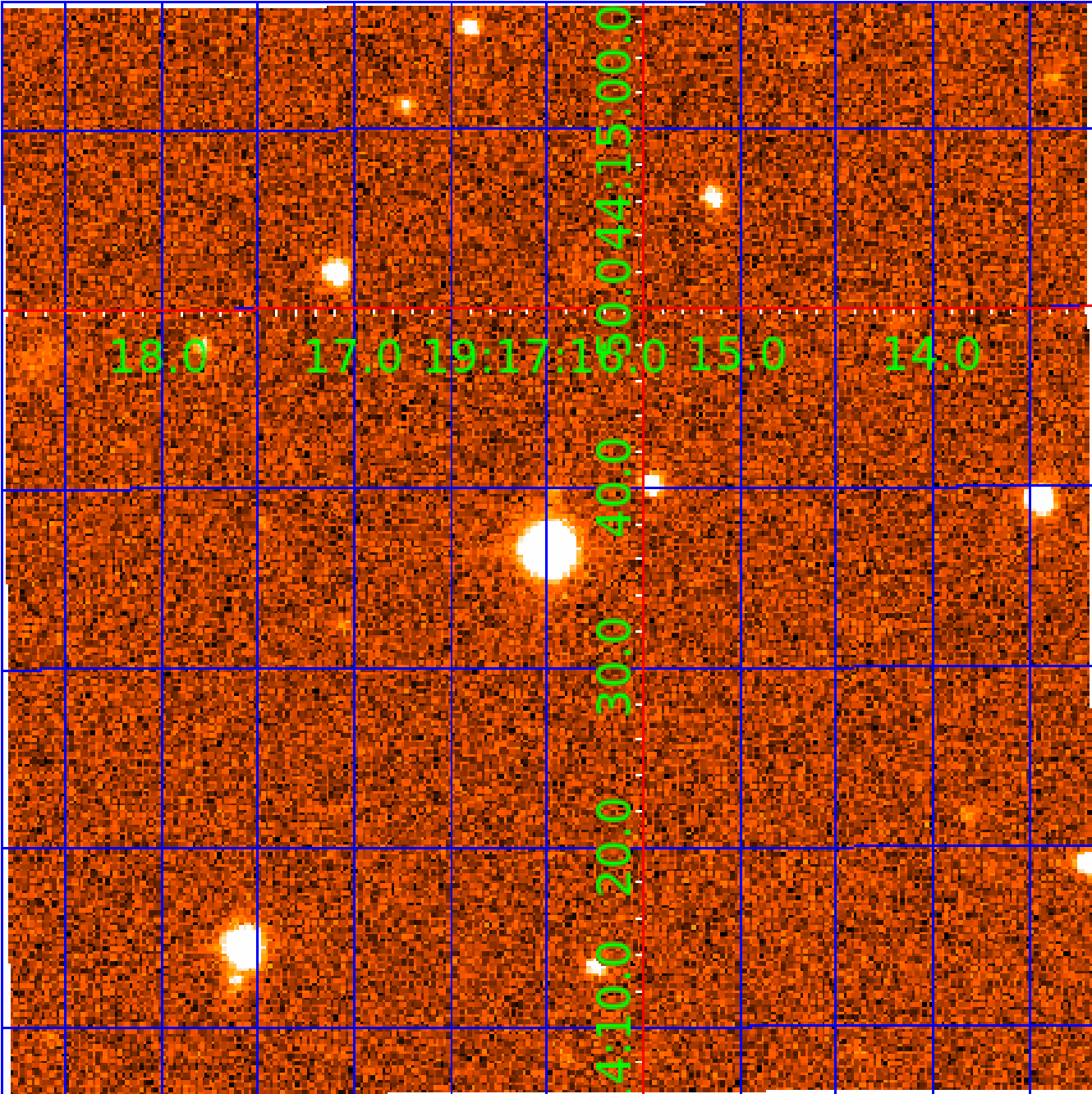


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008292758

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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008292758-04	OBS	No	423.034398	344.754944	2671.7	11.052	13.5	8.3	0.59	3982	3.06	0.09
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008292758-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008292758-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008292758-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008292758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_ALT—INCONSISTENT_TRANS
008292758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

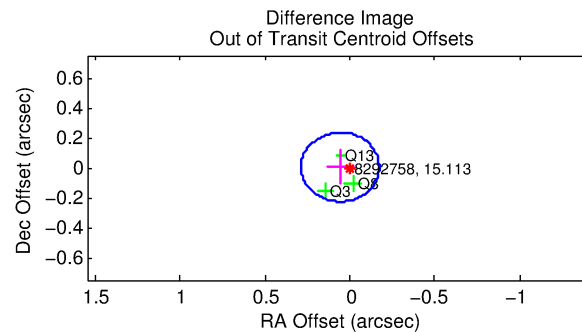
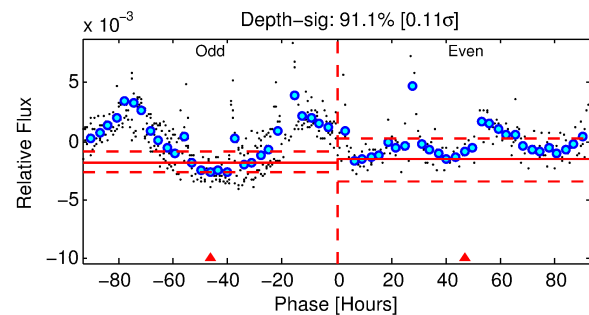
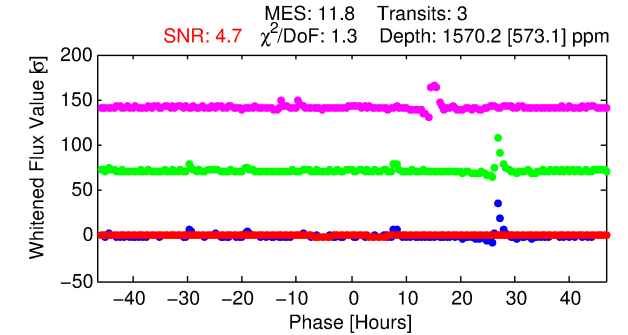
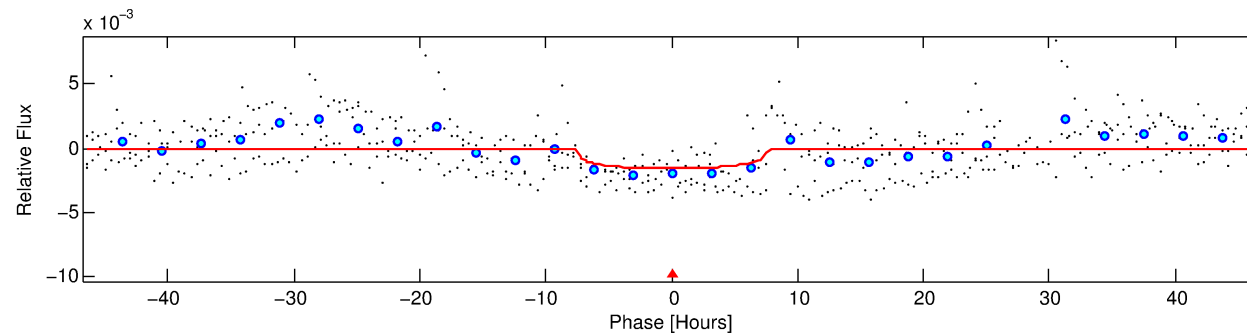
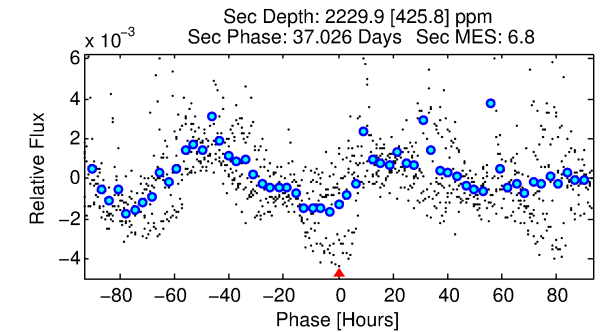
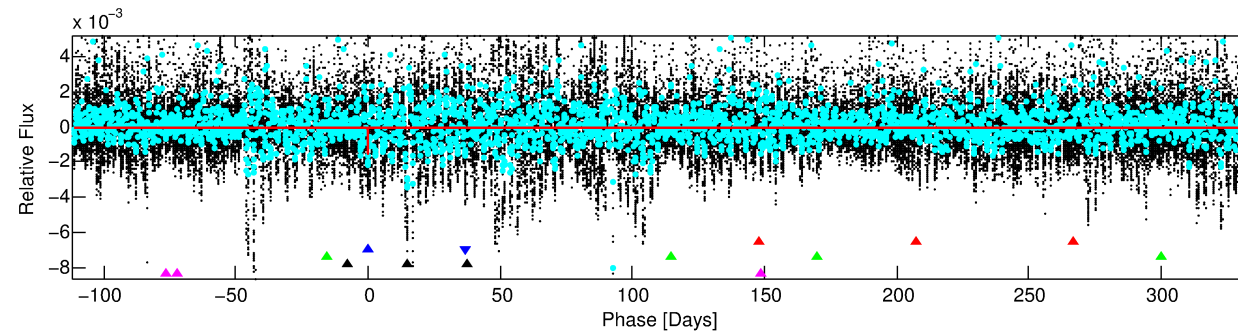
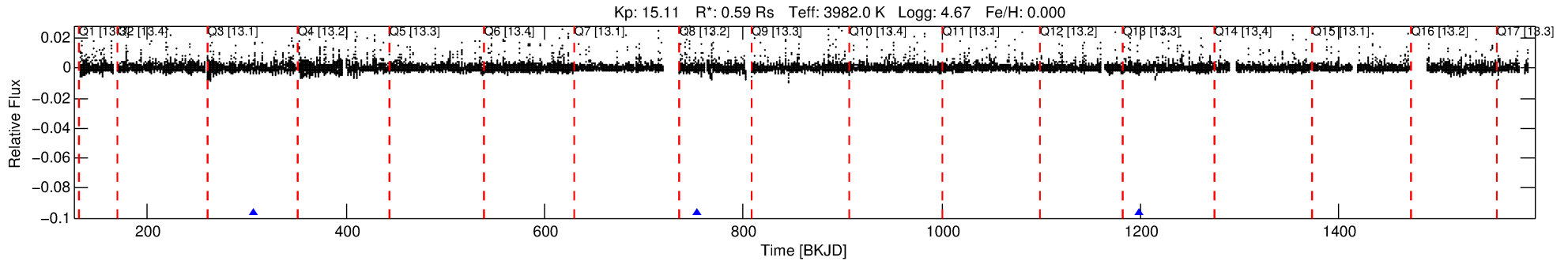
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008292758-02

No Significant Match Found

DV One-Page Summary

KIC: 8292758 Candidate: 2 of 5 Period: 445.859 d



DV Fit Results:

Period = 445.85927 [0.01800] d
Epoch = 307.0120 [0.0264] BKJD
Rp/R* = 0.0366 [0.0196]
a/R* = 201.64 [357.06]
b = 0.47 [2.96]
Seff = 0.09 [0.01]
Teq = 138 [4] K
Rp = 2.34 [1.26] Re
a = 0.9548 [0.0437] AU
Ag = 203695.91 [221775.88] [0.92σ]
Teffp = 4524 [1233] K [3.56σ]

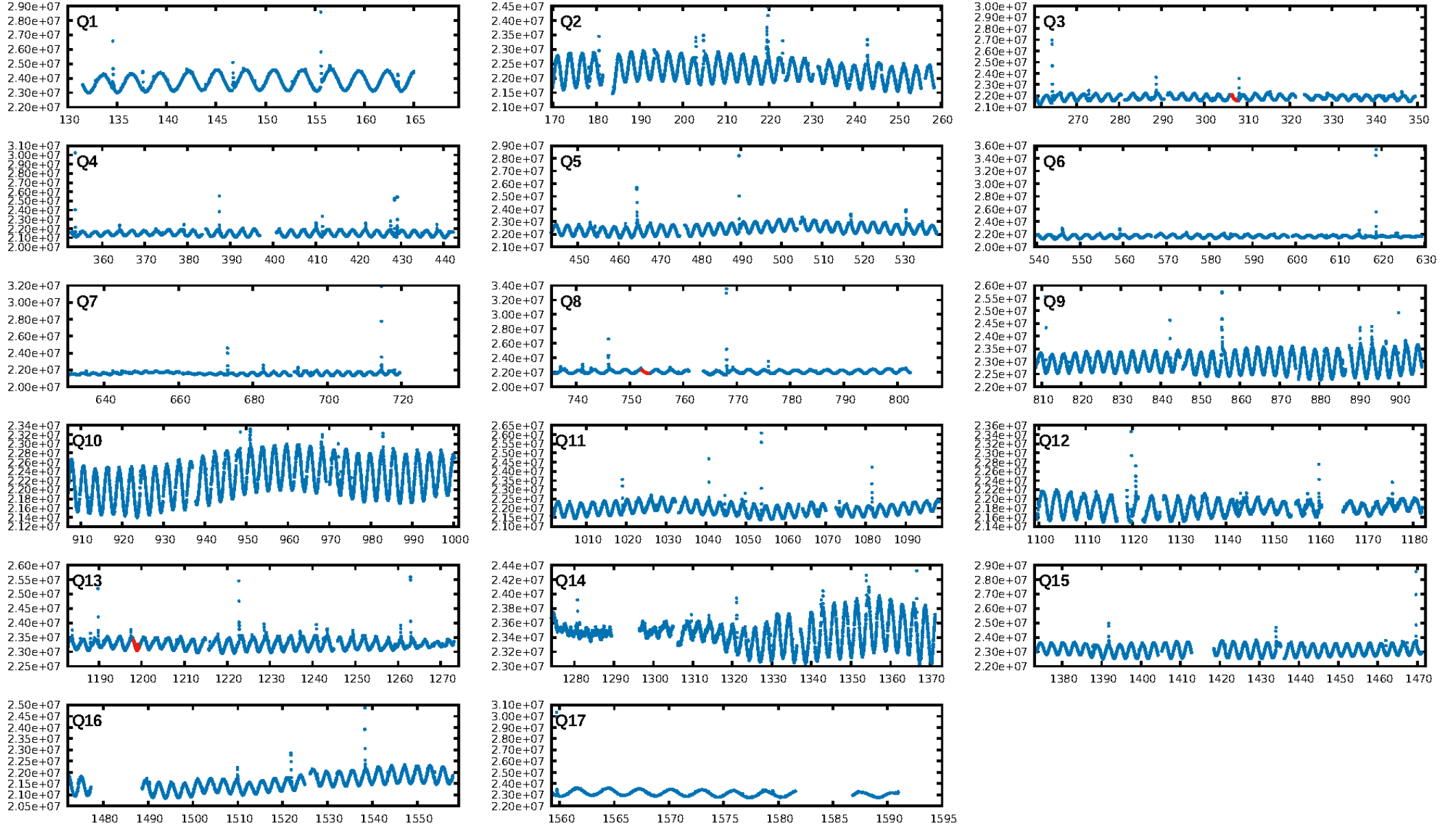
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [28.64σ]
LongPeriod-sig: 100.0% [88.59σ]
ModelChiSquare2-sig: 29.1%
ModelChiSquareGof-sig: 99.6%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 31.27
Centroid-sig: 11.4%
Centroid-so: 0.699 arcsec [1.57σ]
OotOffset-rm: 0.059 arcsec [0.77σ]
KicOffset-rm: 0.068 arcsec [0.68σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

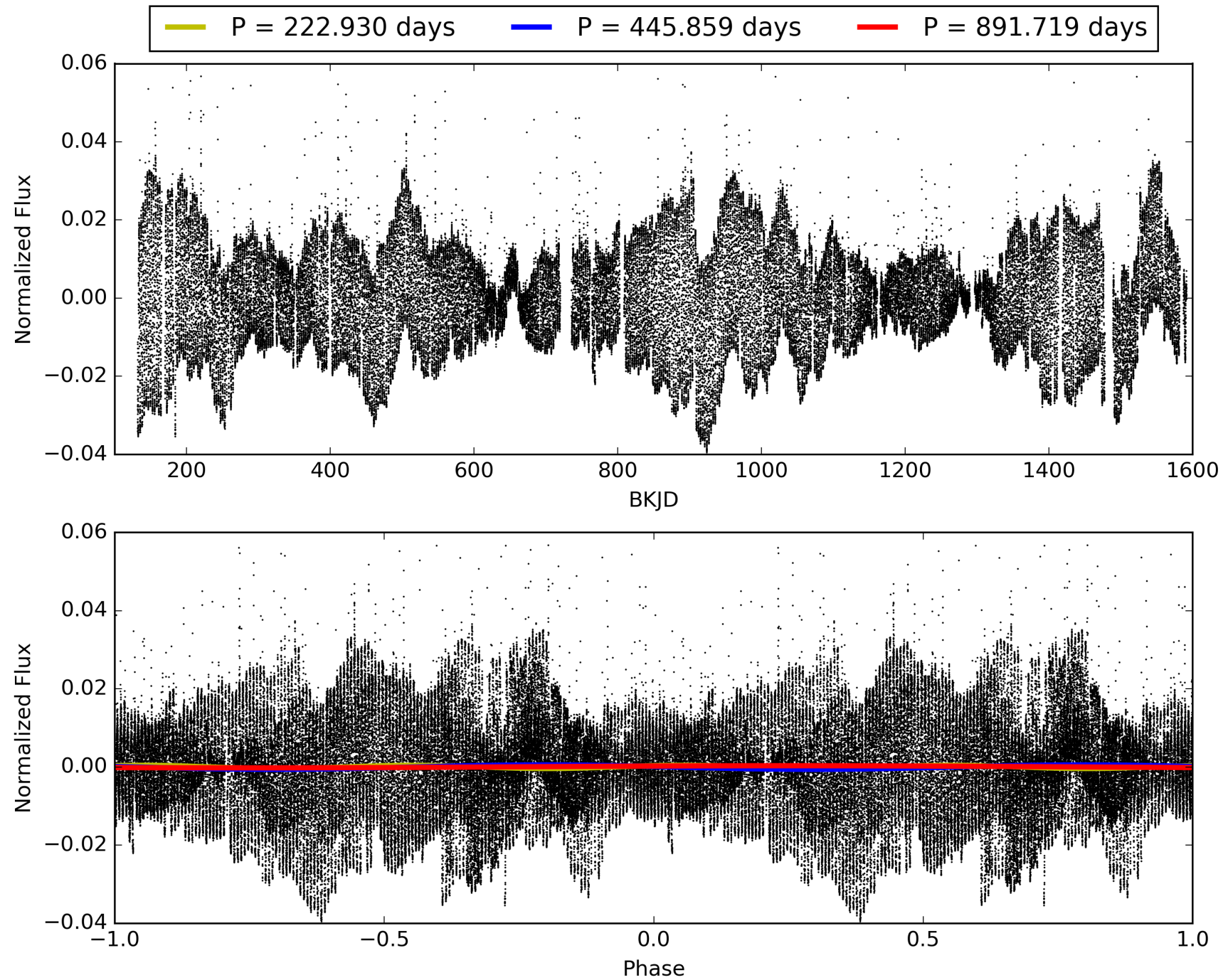
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:40:24 Z

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

TCE 008292758-02, PDC Light Curves

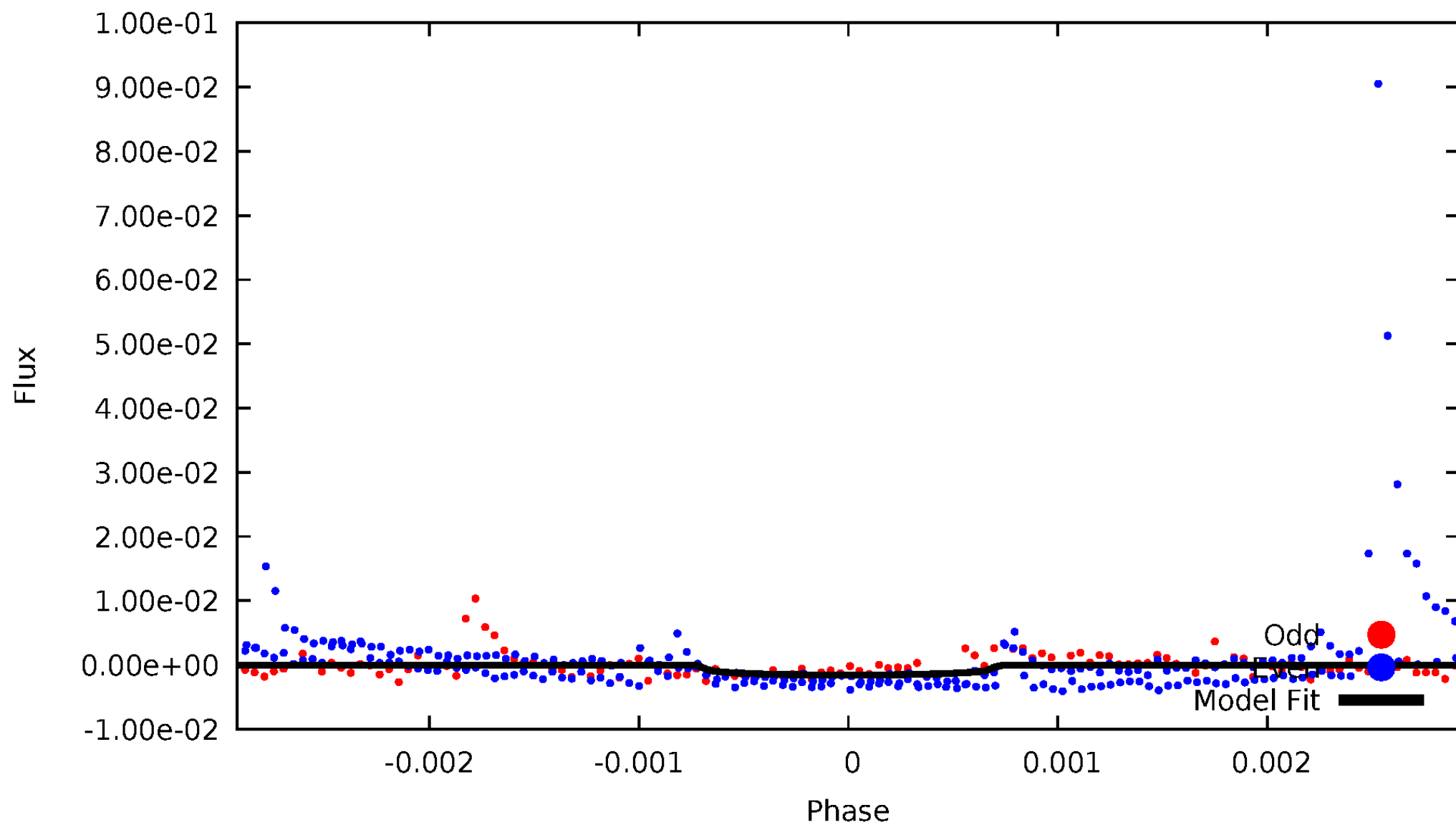


TCE 008292758-02



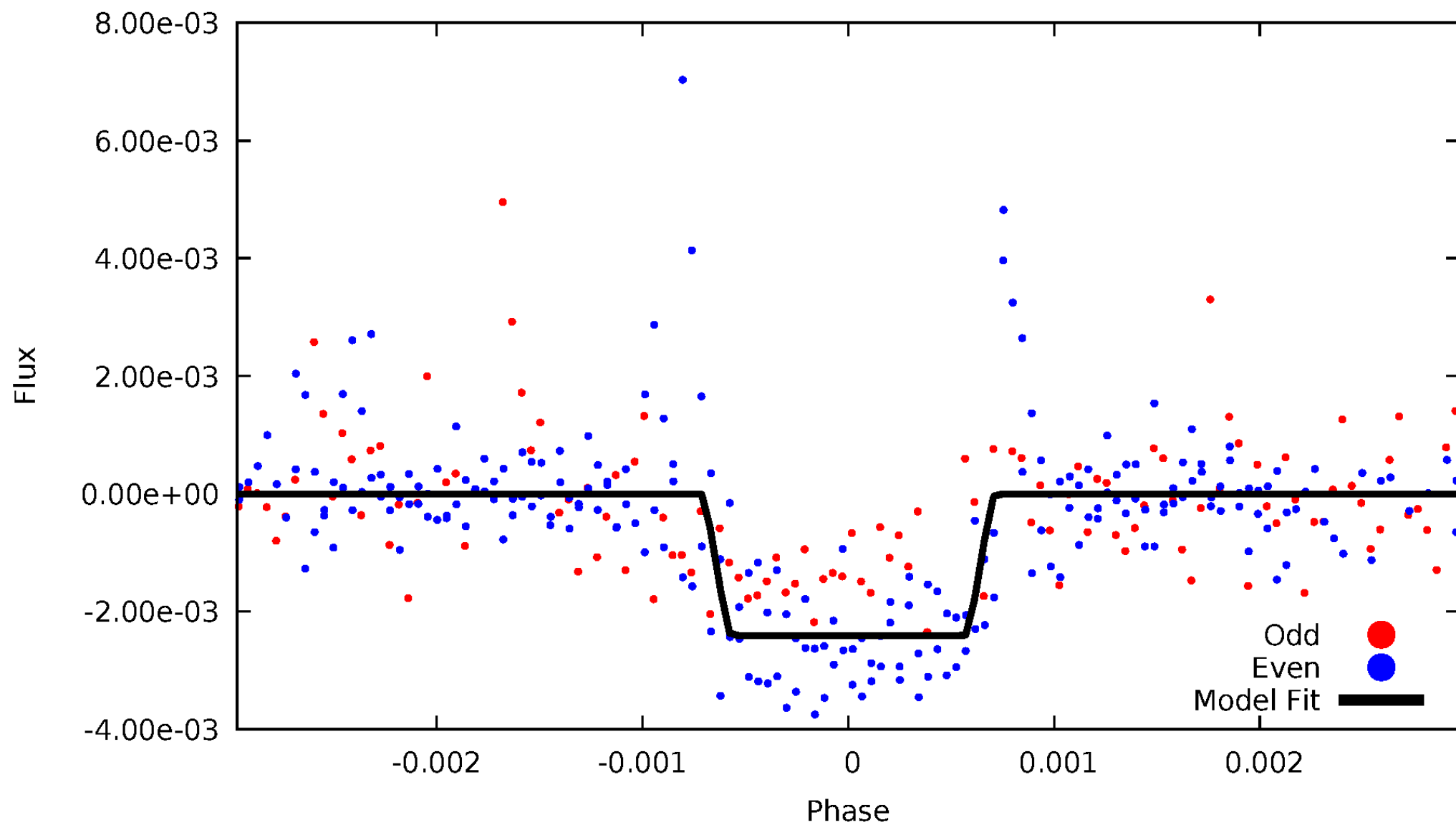
DV Odd/Even

TCE 008292758-02



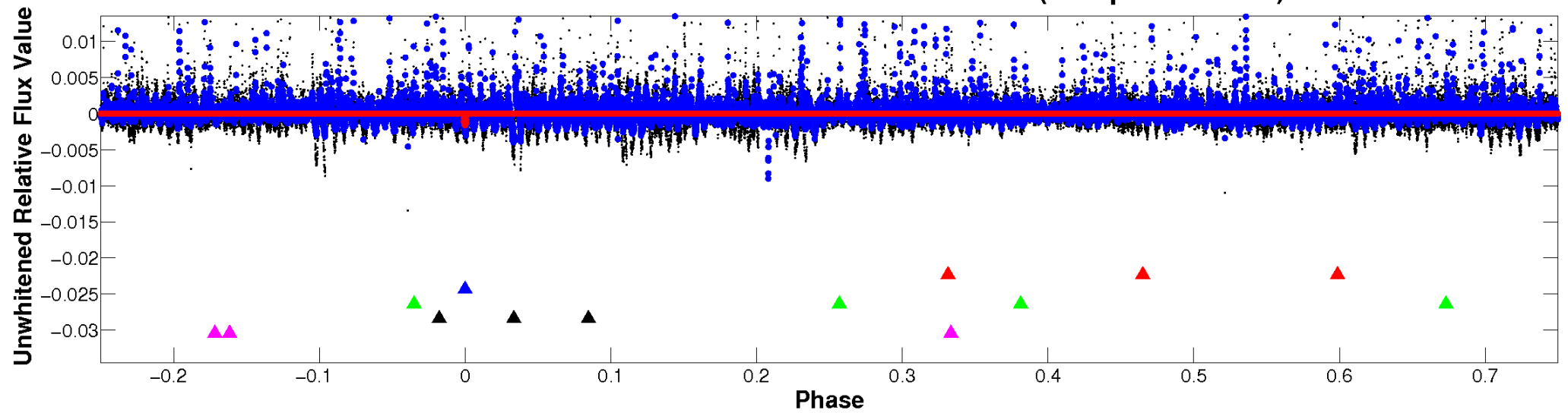
ALT Odd/Even

TCE 008292758-02

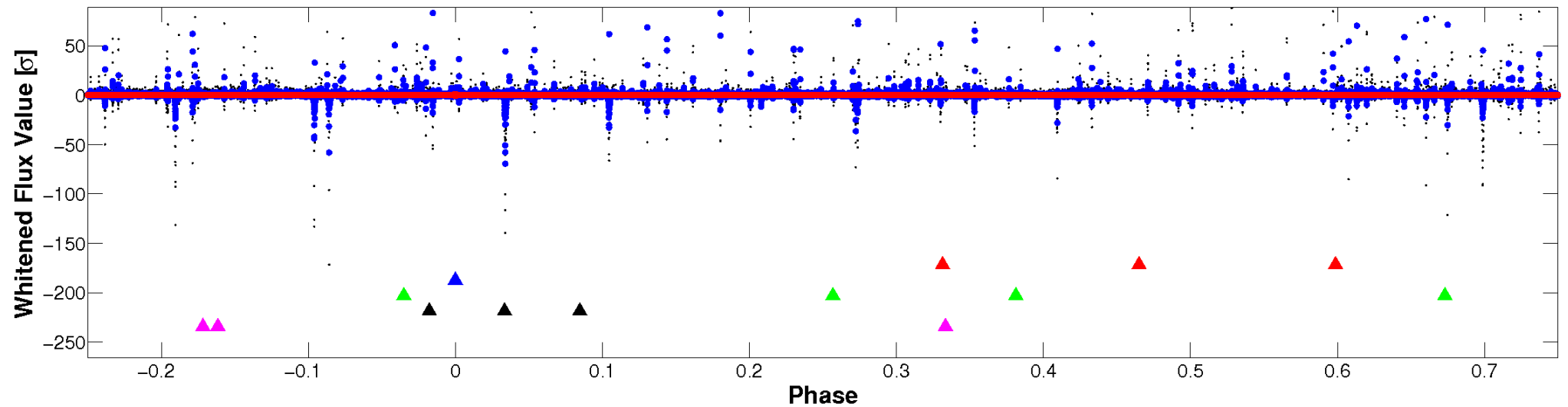


Non-Whitened Vs. Whitened Light Curve

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

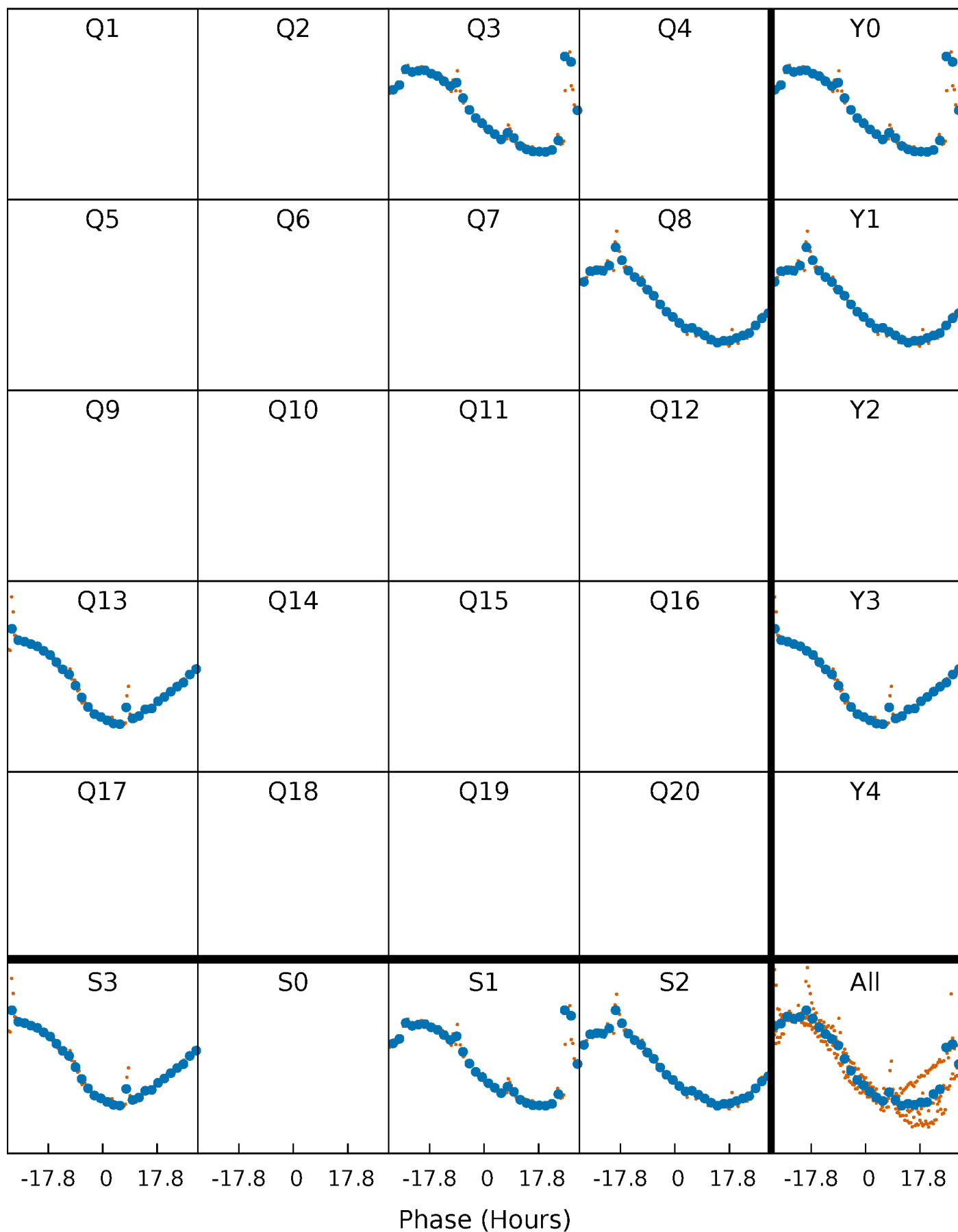


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



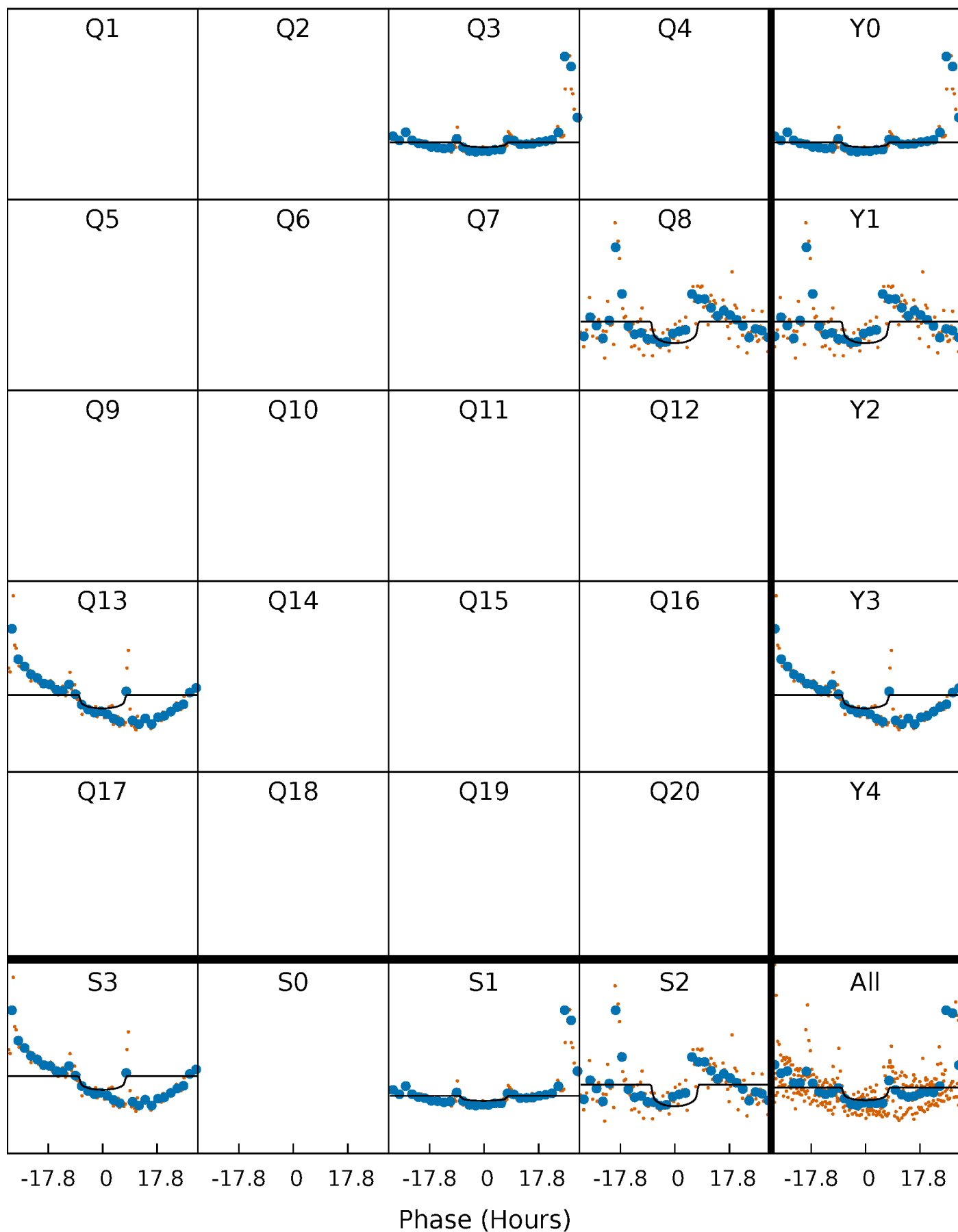
PDC Quarter-Phased Transit Curves

TCE 008292758-02 $P=445.859272$ Days $T_0=307.011981$ (BKJD)



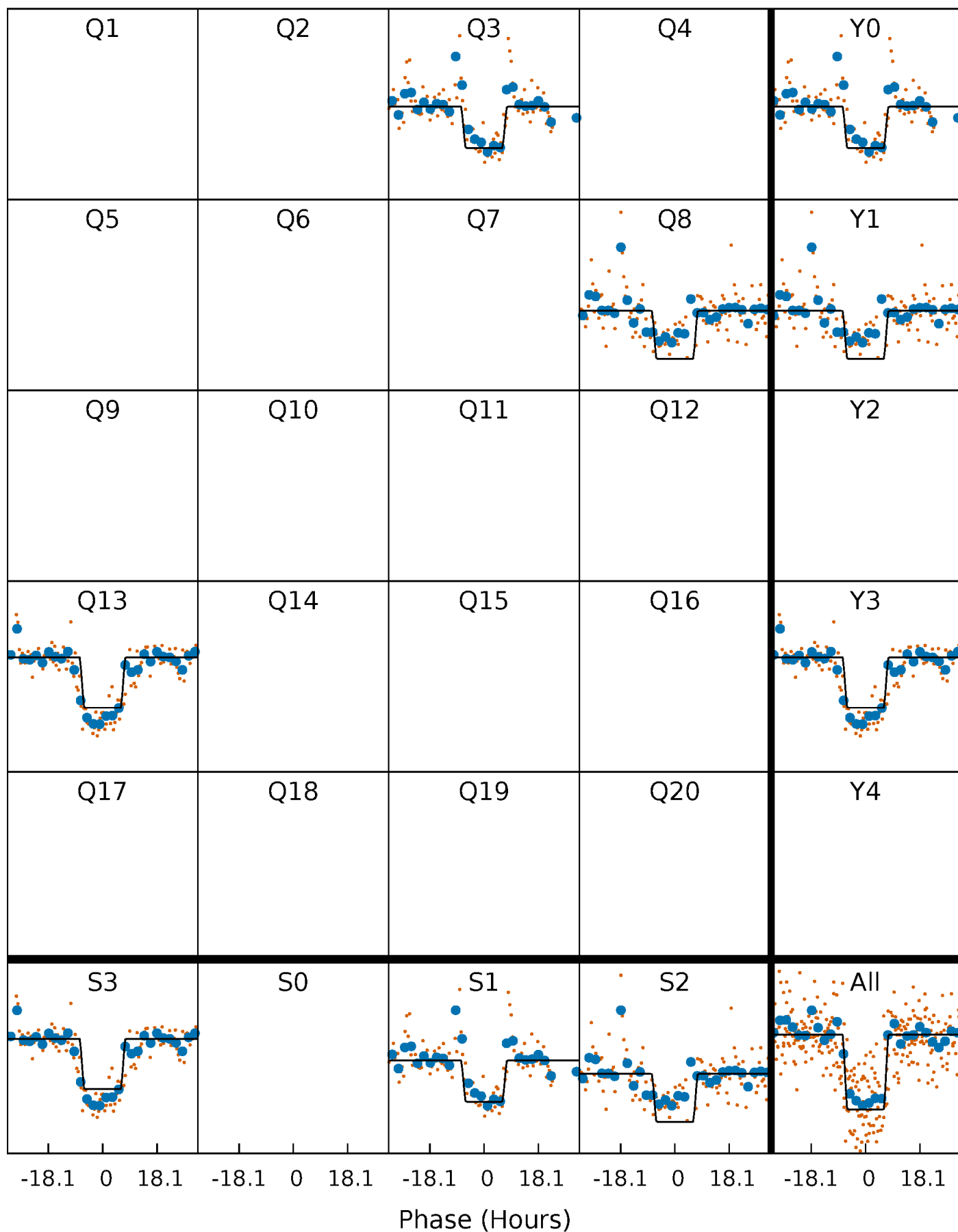
DV Quarter-Phased Transit Curves

TCE 008292758-02 $P=445.859272$ Days $T_0=307.011981$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

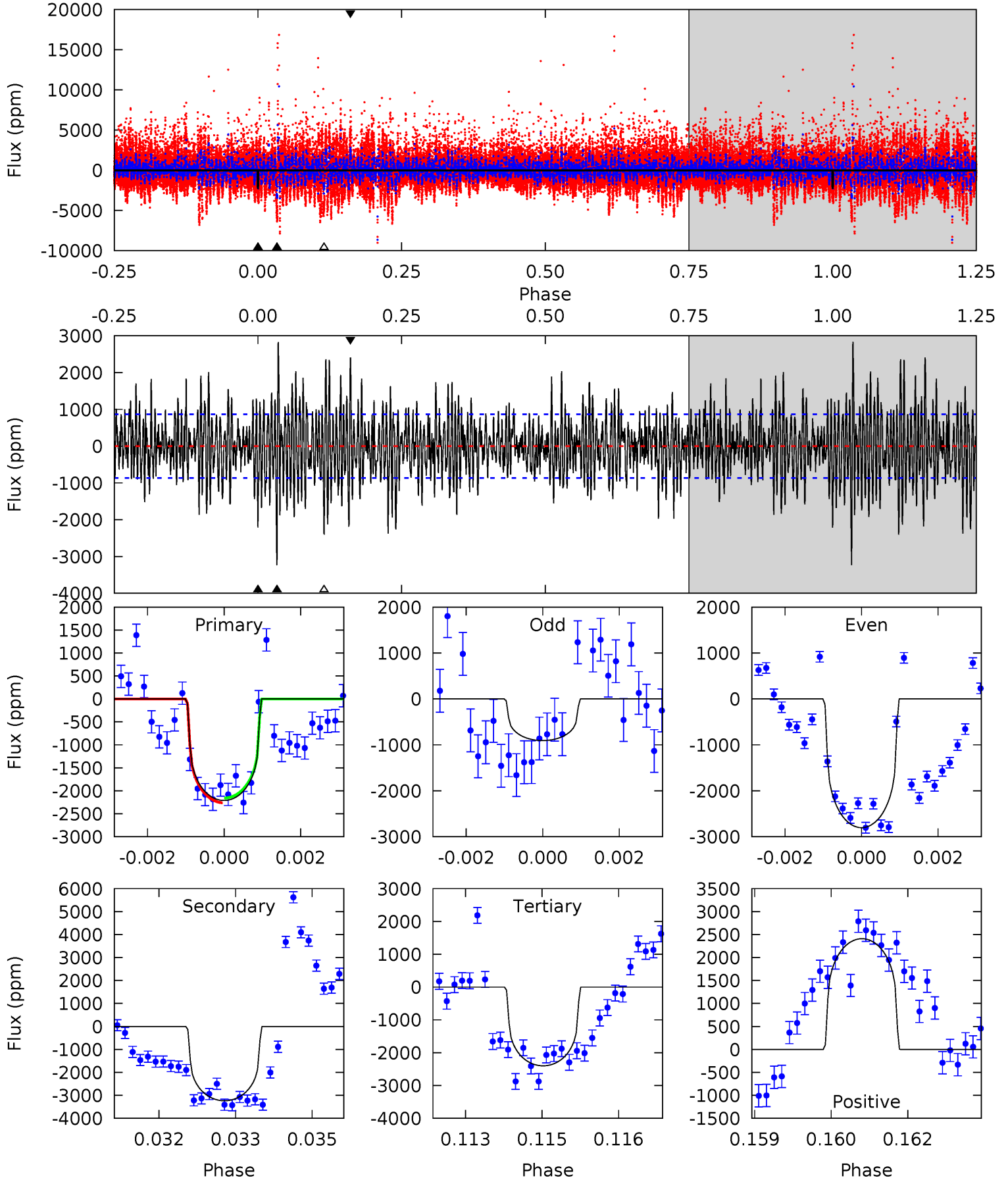
TCE 008292758-02 $P=445.860279$ Days $T_0=307.007084$ (BKJD)



DV Model-Shift Uniqueness Test

008292758-02, P = 445.859272 Days, E = 307.011981 Days

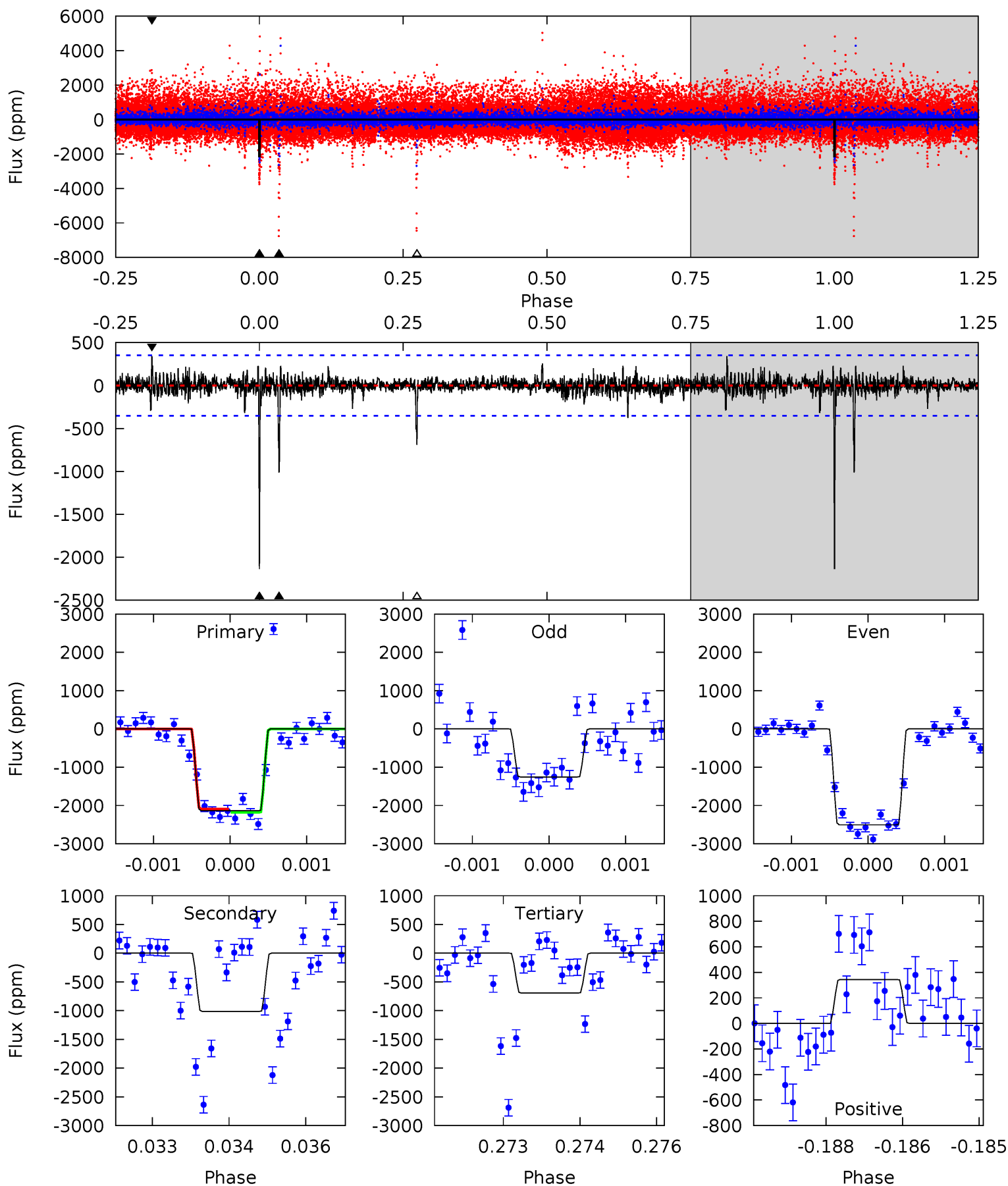
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.7	20.1	14.9	14.9	5.38	3.17	4.42	-1.18	-1.23	5.17	5.12	2.96	0.86	0.47	0.32



Alt Model-Shift Uniqueness Test

008292758-02, P = 445.860279 Days, E = 307.007084 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
32.6	15.5	10.6	5.25	5.39	3.19	0.96	22.1	27.4	4.91	10.2	7.26	1.02	0.14	0.64



Stellar Parameters For KIC 008292758

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3982^{+87}_{-87}	$4.667^{+0.038}_{-0.013}$	$0.000^{+0.100}_{-0.100}$	$0.587^{+0.020}_{-0.031}$	$0.584^{+0.030}_{-0.027}$	$4.064^{+0.585}_{-0.245}$
	+2%/-2%	+1%/-0%	+inf%/-inf%	+3%/-5%	+5%/-5%	+14%/-6%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 008292758-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-3235 ± 161	$2.36^{+1.31}_{-1.15}$	191^{+5}_{-4}	4672^{+1717}_{-700}	$292145^{+839313}_{-170241}$
Alt.	-1013 ± 65	$3.10^{+1.22}_{-1.17}$	191^{+4}_{-5}	3454^{+617}_{-329}	53421^{+86719}_{-25719}

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

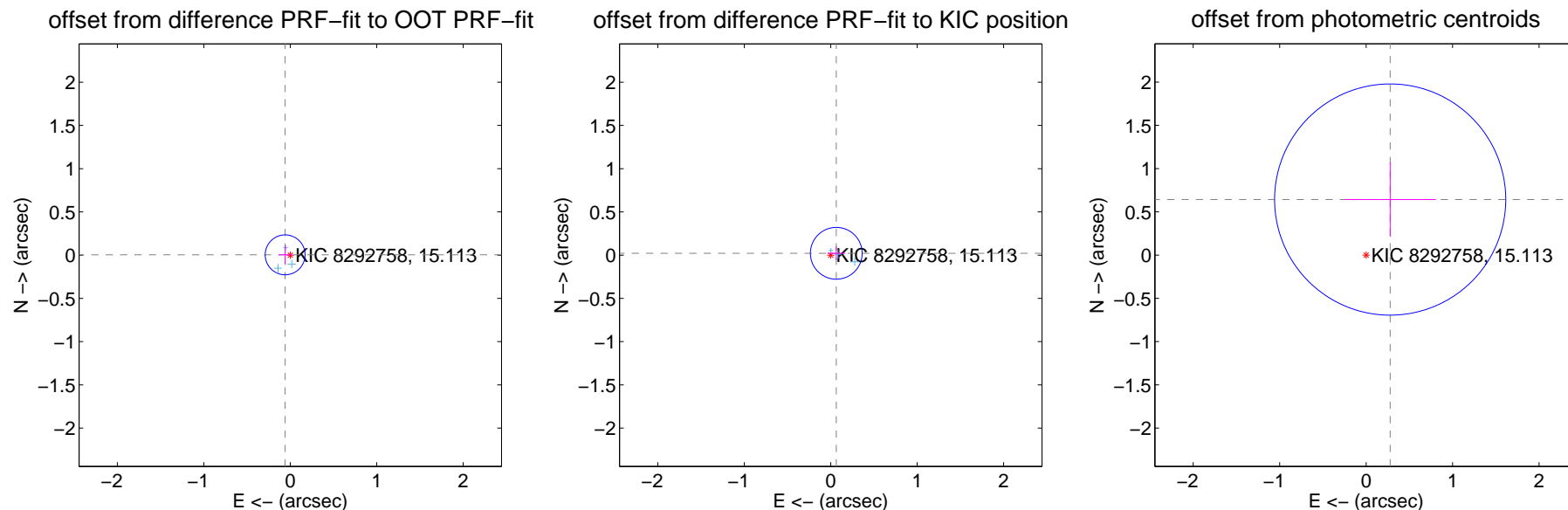
DV Centroid Data

Supplemental centroid analysis for 008292758-02. Kepler magnitude: 15.11. Transit SNR 4.69

There are 3 quarters with good PRF difference image offsets

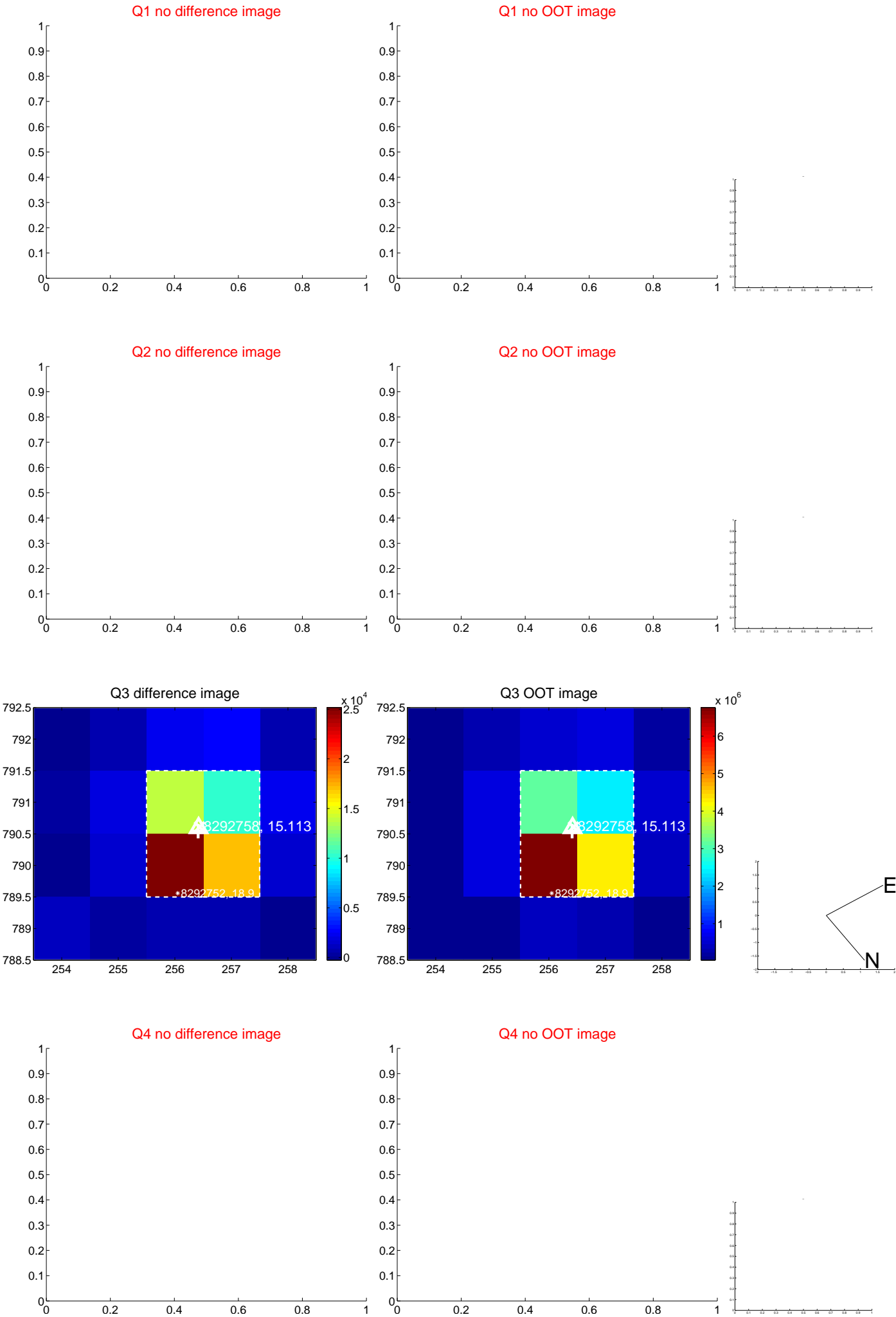
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.059 ± 0.077	0.77	0.059 ± 0.077	0.004 ± 0.109
PRF-fit source offset from KIC position	0.068 ± 0.100	0.68	-0.064 ± 0.102	0.022 ± 0.077
photometric centroid source offset	0.70 ± 0.45	1.57	-0.28 ± 0.53	0.64 ± 0.43

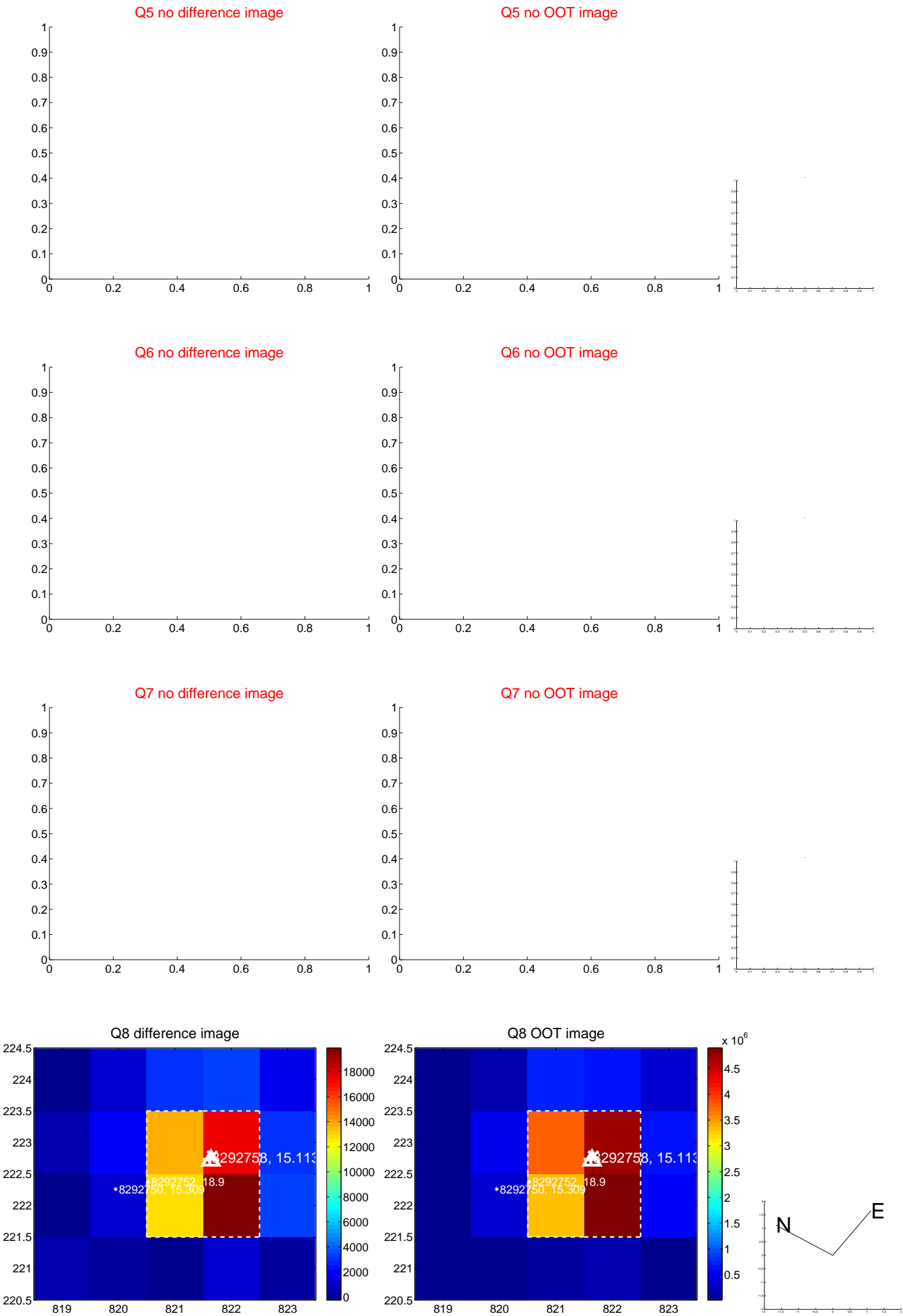


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



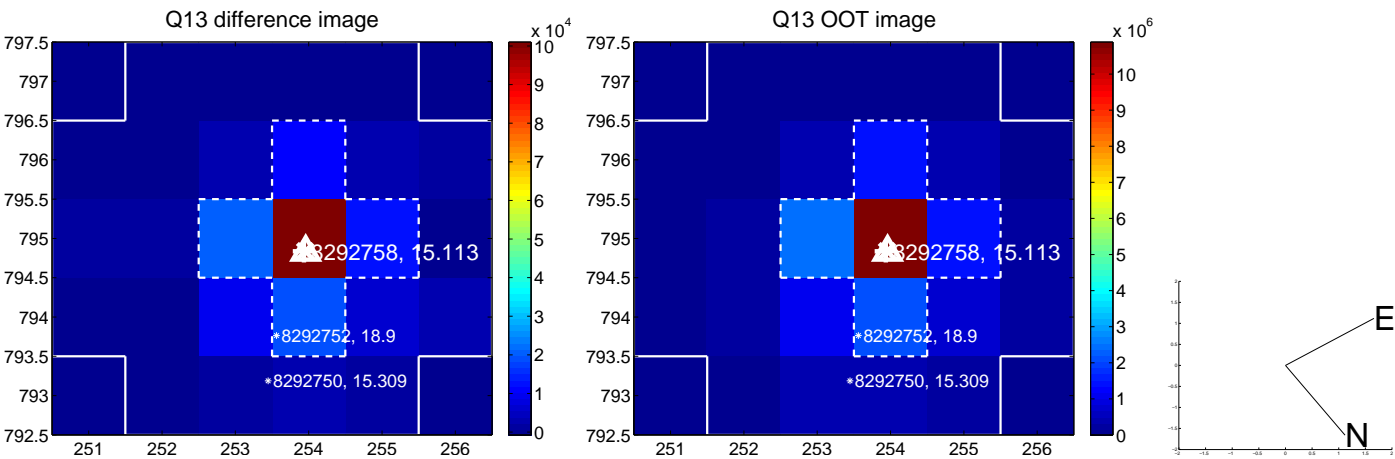
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



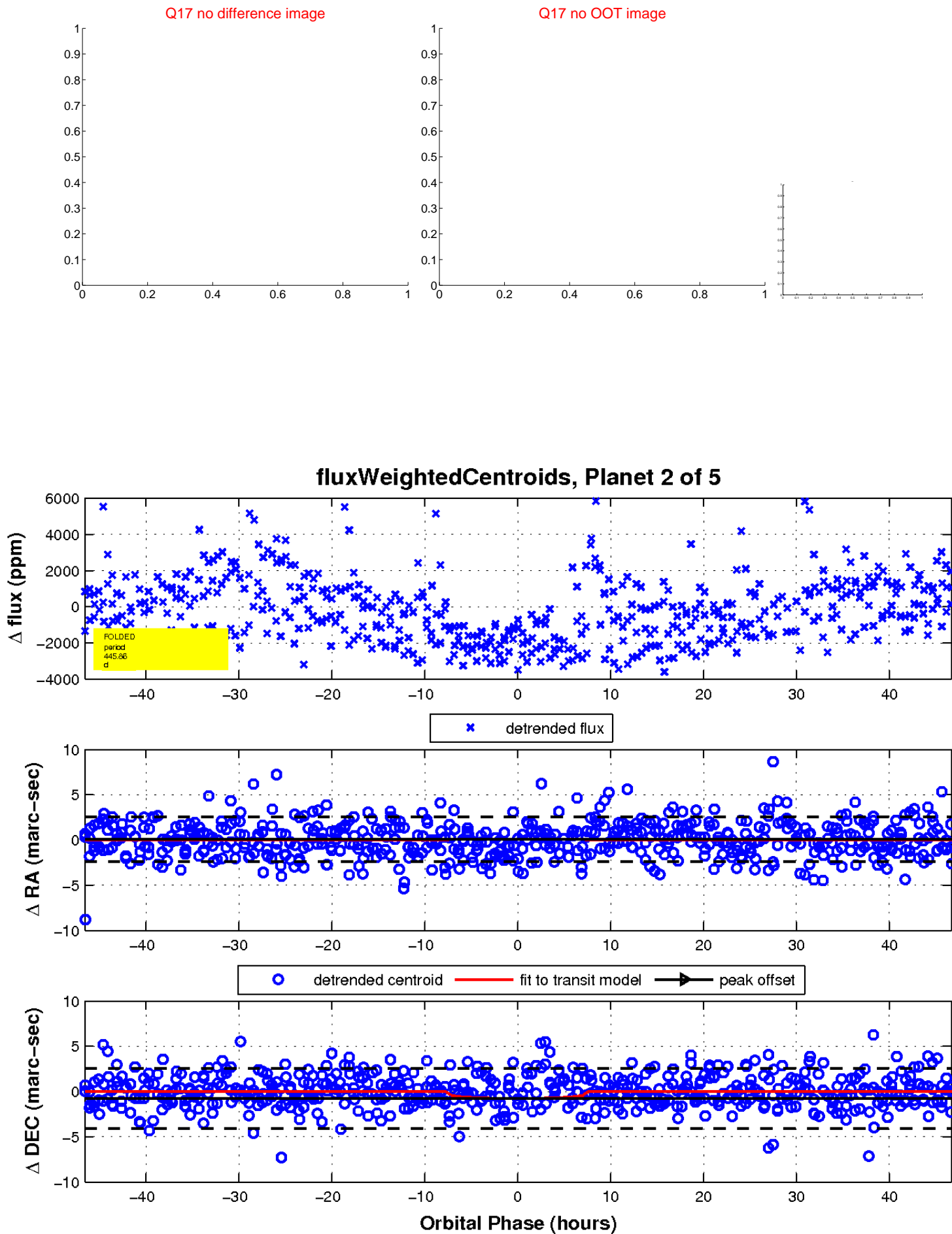
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

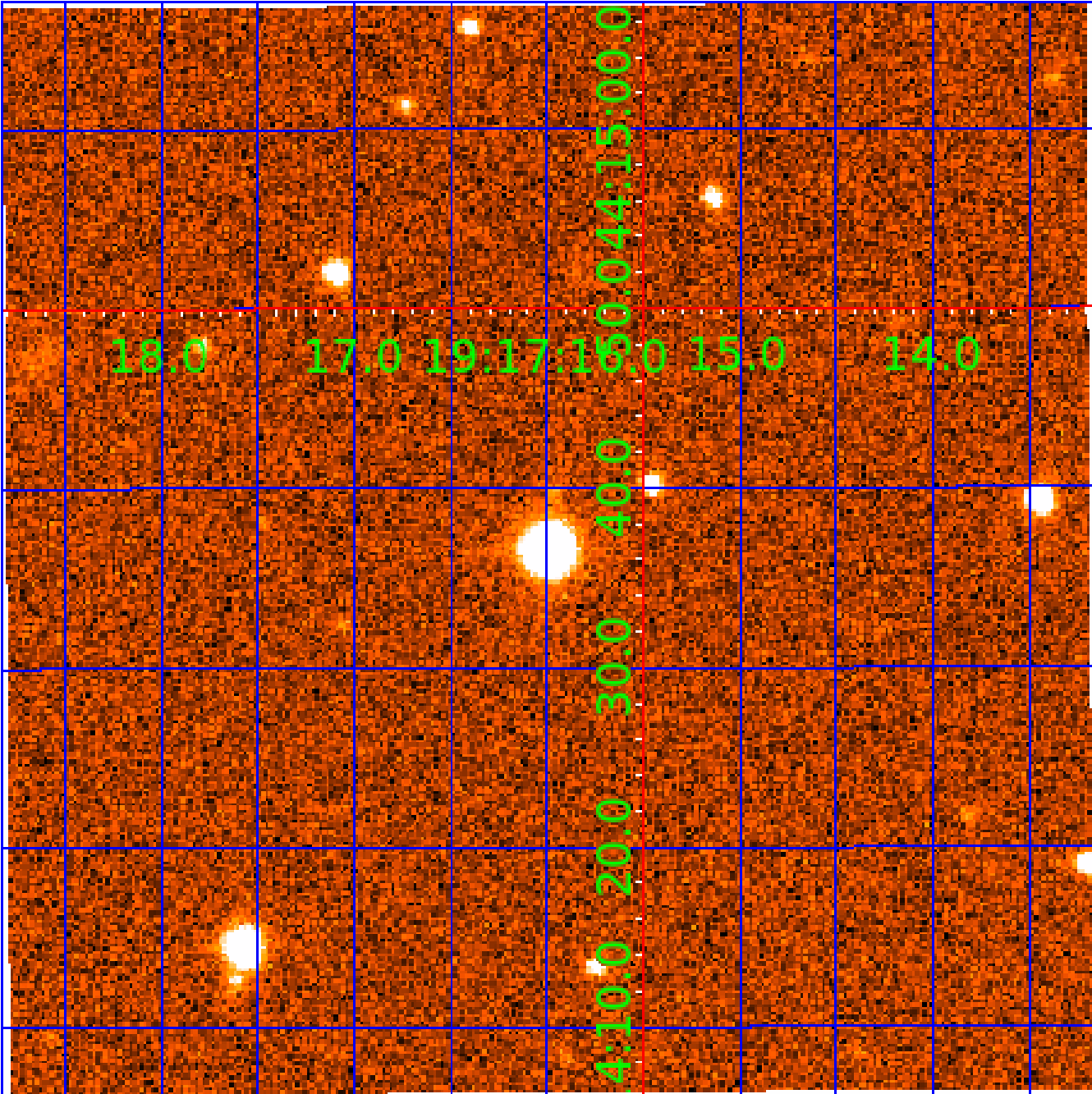


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008292758

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})
008292758-01	OBS	No	505.450043	454.773442	2255.1	4.132	15.2	8.2	0.59	3982	2.84	0.07
008292758-02	OBS	No	445.859272	307.011981	1570.2	15.607	11.8	4.7	0.59	3982	2.34	0.09
008292758-03	OBS	No	315.735889	421.506944	1636.6	3.803	11.6	6.8	0.59	3982	2.36	0.14
008292758-04	OBS	No	423.034398	344.754944	2671.7	11.052	13.5	8.3	0.59	3982	3.06	0.09
008292758-05	OBS	No	666.525391	234.991627	2325.9	6.343	14.4	8.2	0.59	3982	2.78	0.05

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008292758-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008292758-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008292758-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008292758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_ALT—INCONSISTENT_TRANS
008292758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

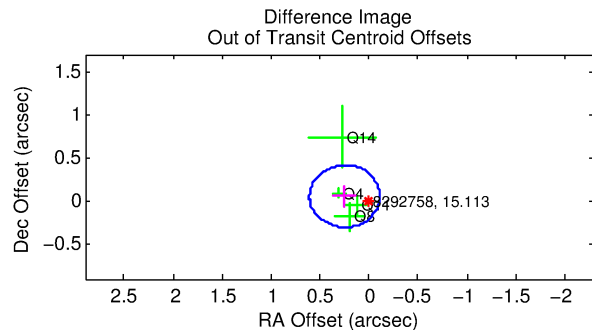
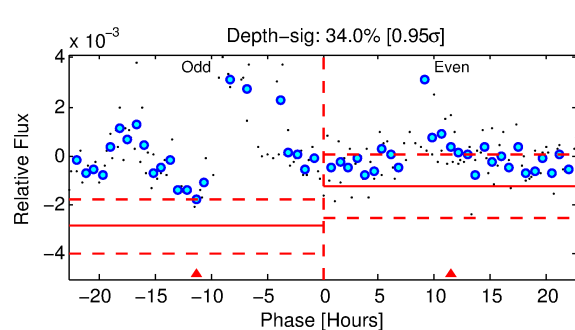
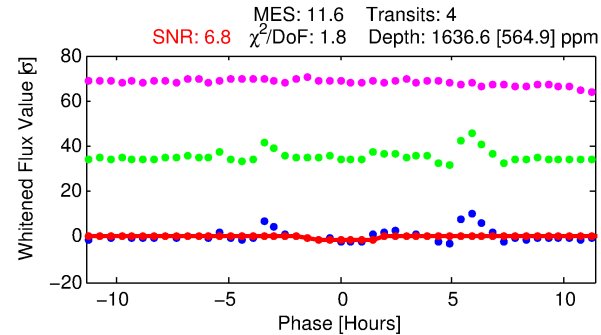
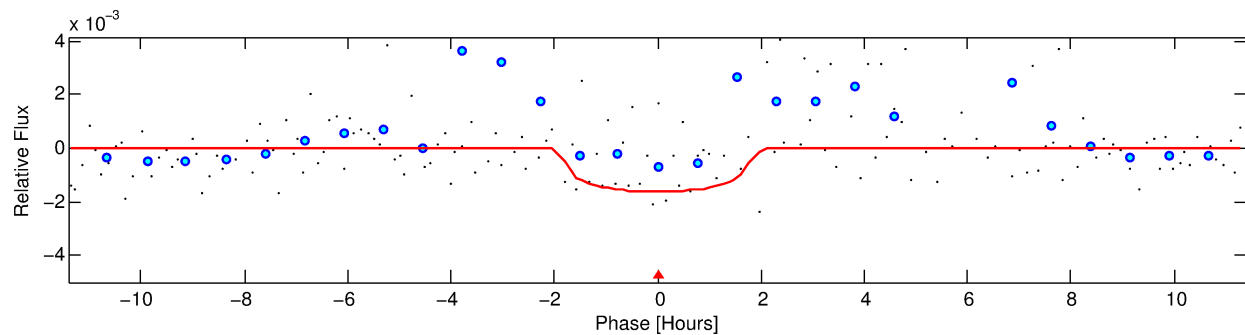
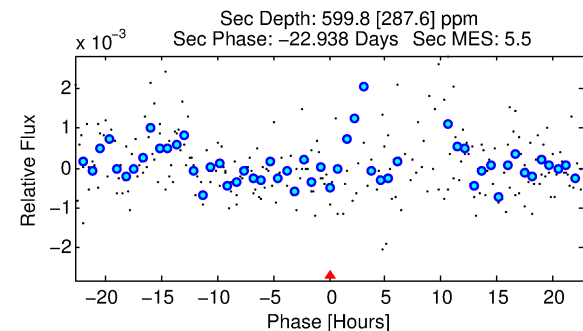
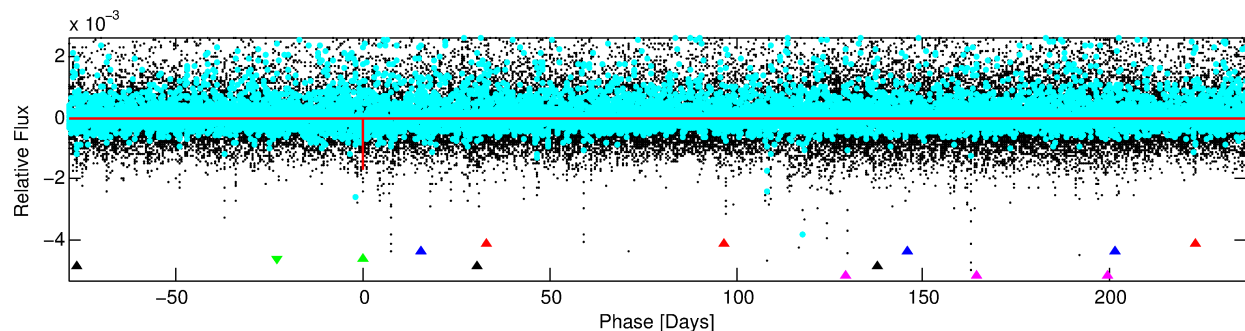
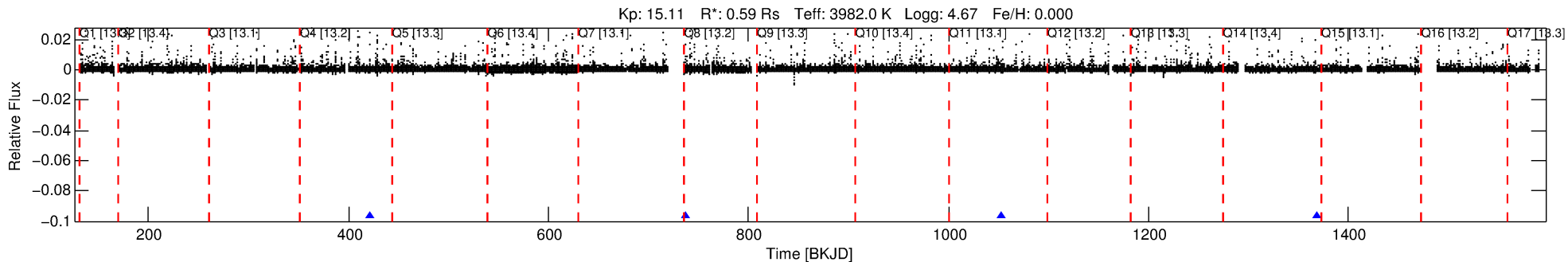
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008292758-03

No Significant Match Found

DV One-Page Summary

KIC: 8292758 Candidate: 3 of 5 Period: 315.736 d



DV Fit Results:

Period = 315.73589 [0.00796] d
Epoch = 421.5069 [0.0179] BKJD
Rp/R* = 0.0369 [0.1207]
a/R* = 613.44 [7251.87]
b = 0.37 [27.60]
Seff = 0.13 [0.01]
Teq = 155 [4] K
Rp = 2.36 [7.73] Re
a = 0.7586 [0.0347] AU
Ag = 34056.63 [223666.81] [0.15σ]
Teffp = 3246 [5329] K [0.58σ]

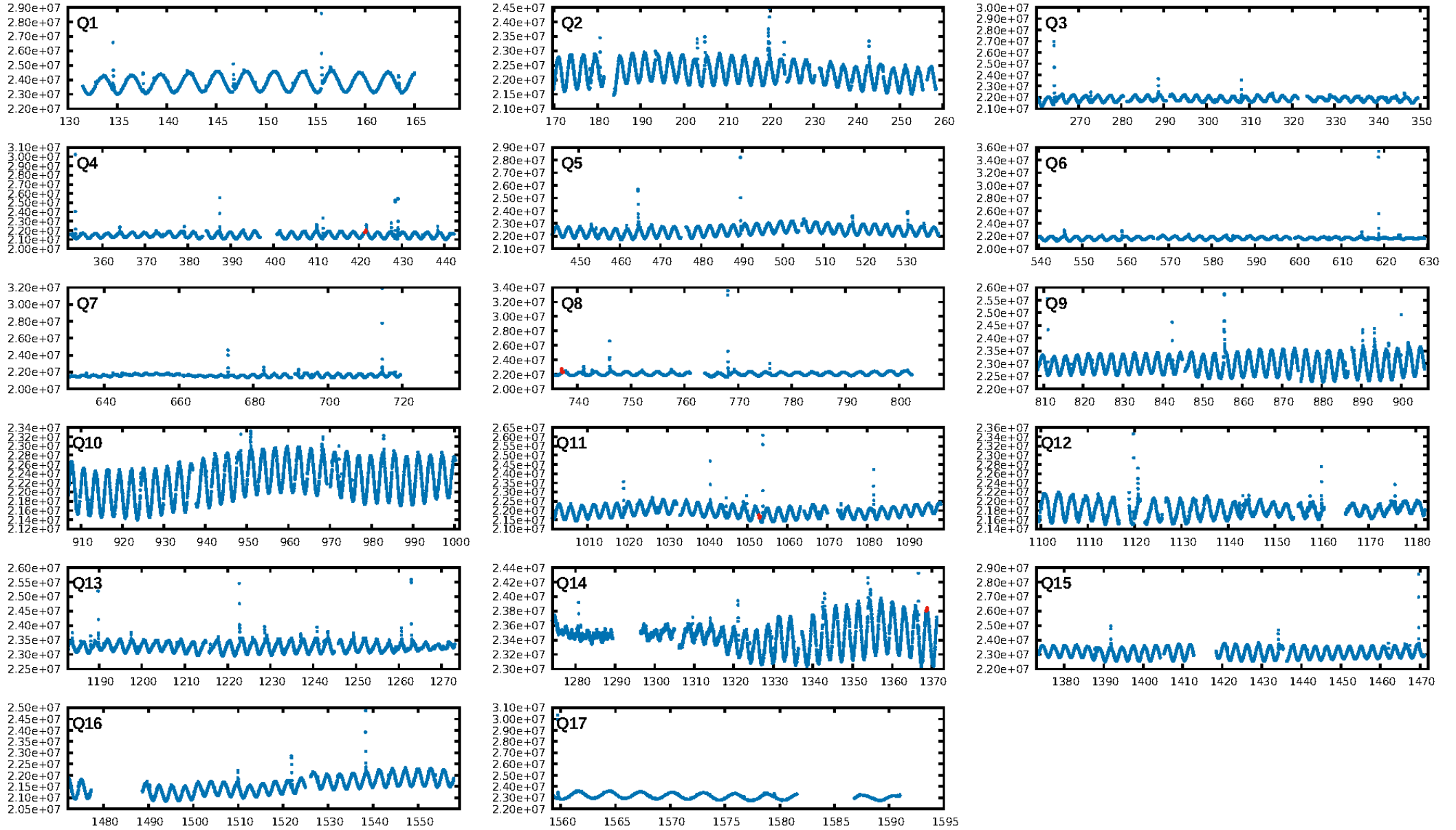
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [220.32σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 39.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.85
Centroid-sig: 31.7%
Centroid-so: 1.062 arcsec [1.52σ]
OotOffset-rm: 0.255 arcsec [2.13σ]
KicOffset-rm: 0.084 arcsec [0.42σ]
OotOffset-st: 1/1/2/0 [4]
KicOffset-st: 1/1/2/0 [4]
DiffImageQuality-fgm: 0.50 [2/4]
DiffImageOverlap-fno: 1.00 [4/4]

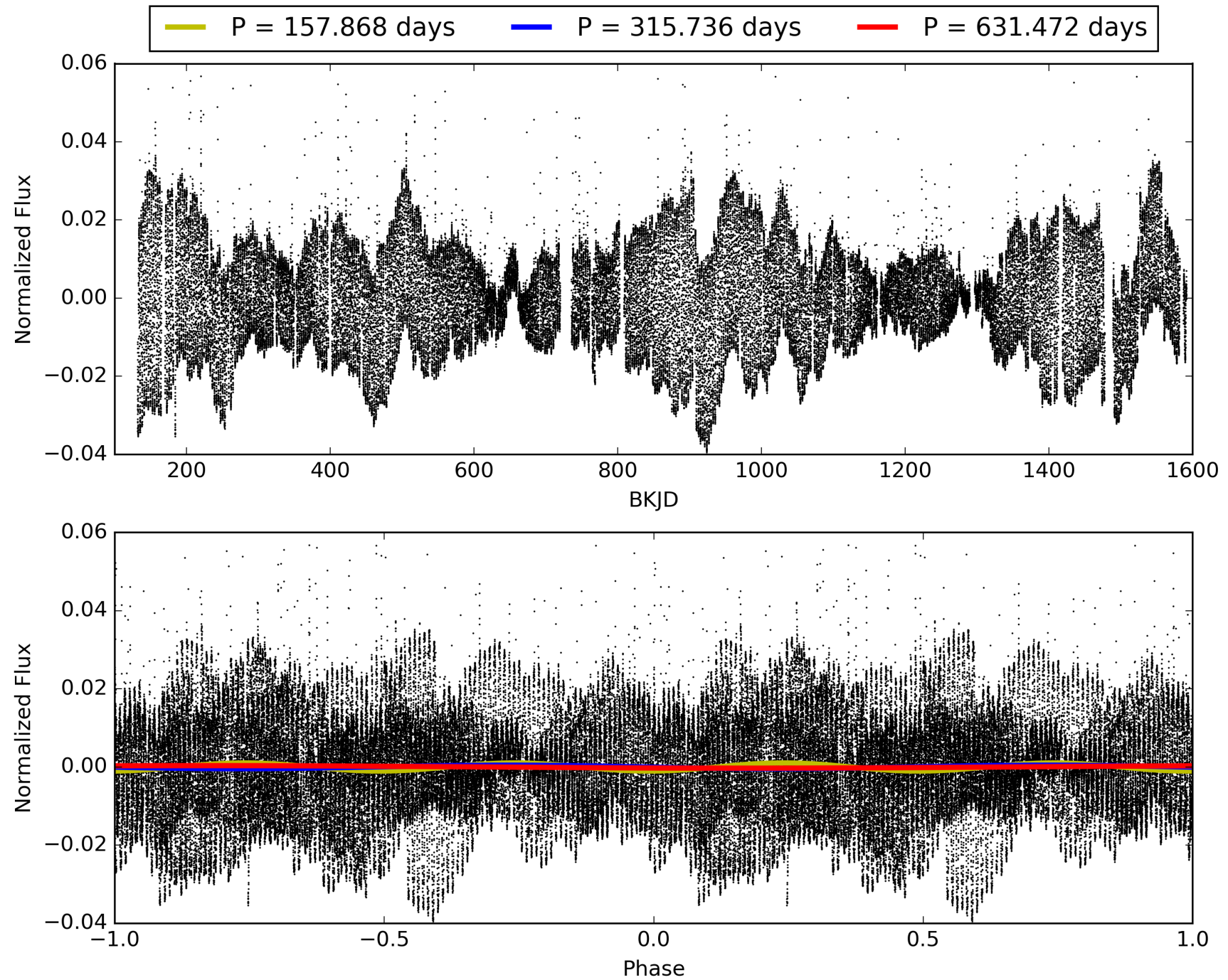
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:40:37 Z

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

TCE 008292758-03, PDC Light Curves

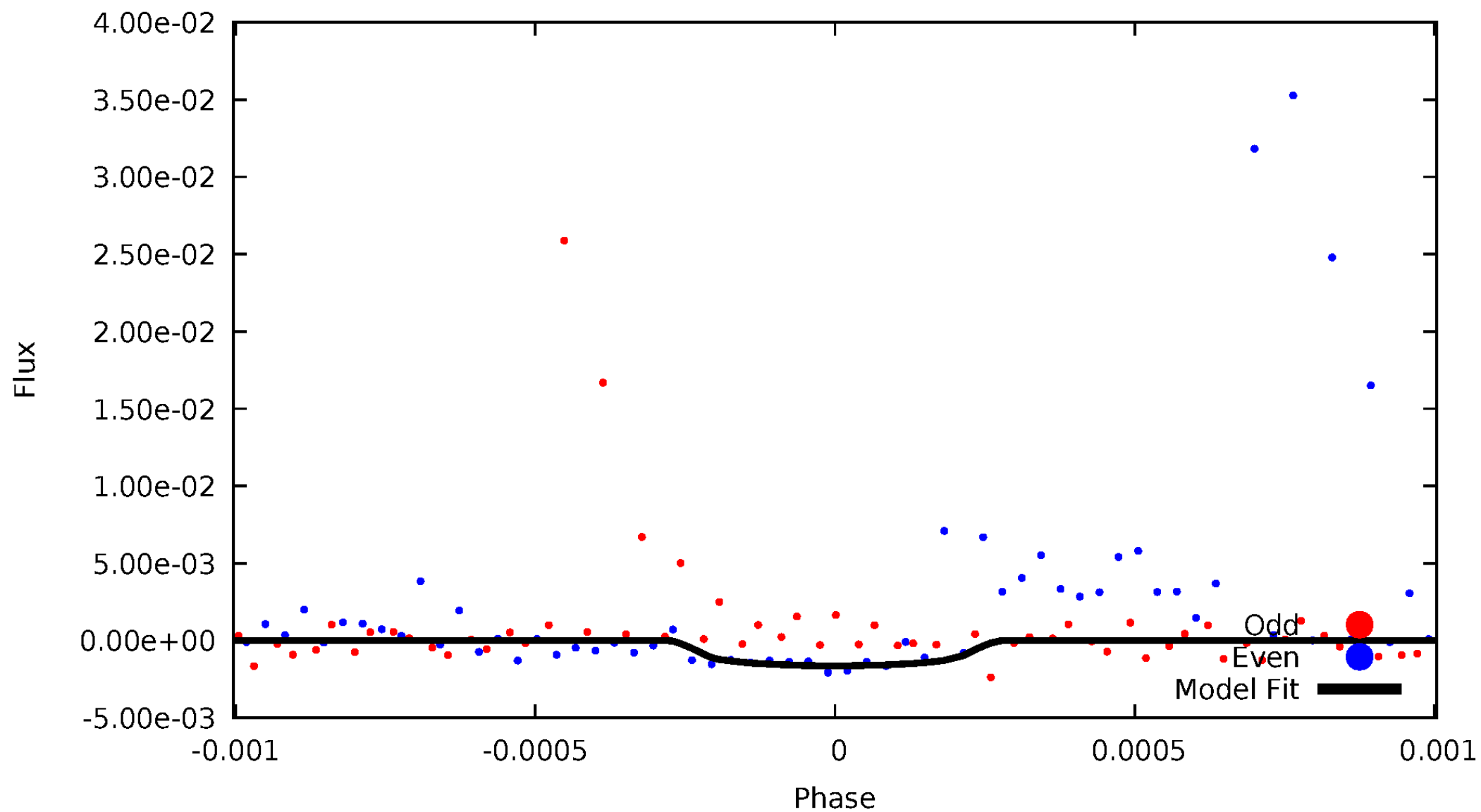


TCE 008292758-03



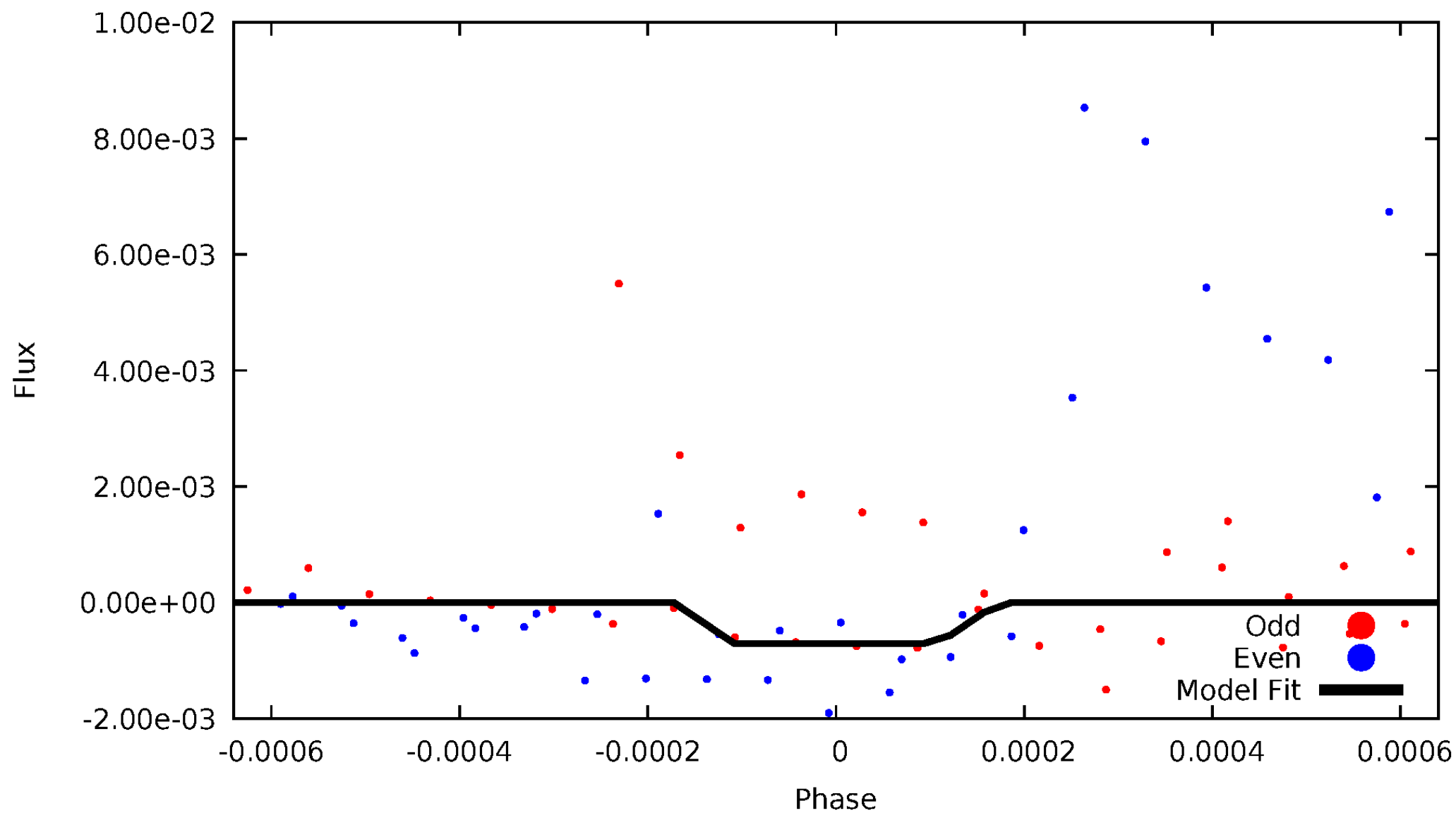
DV Odd/Even

TCE 008292758-03



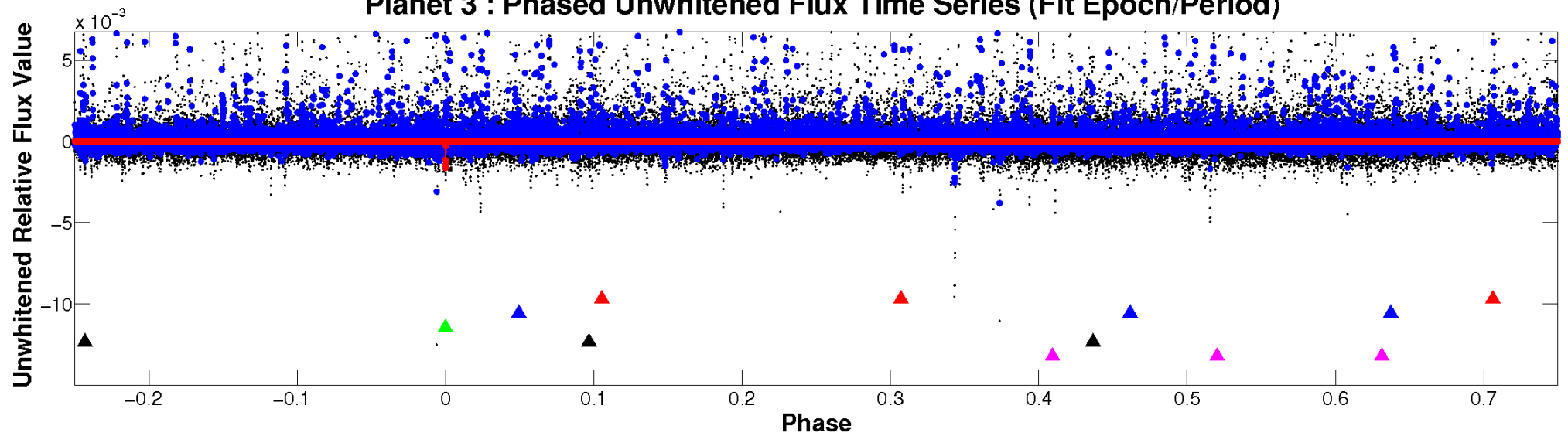
ALT Odd/Even

TCE 008292758-03

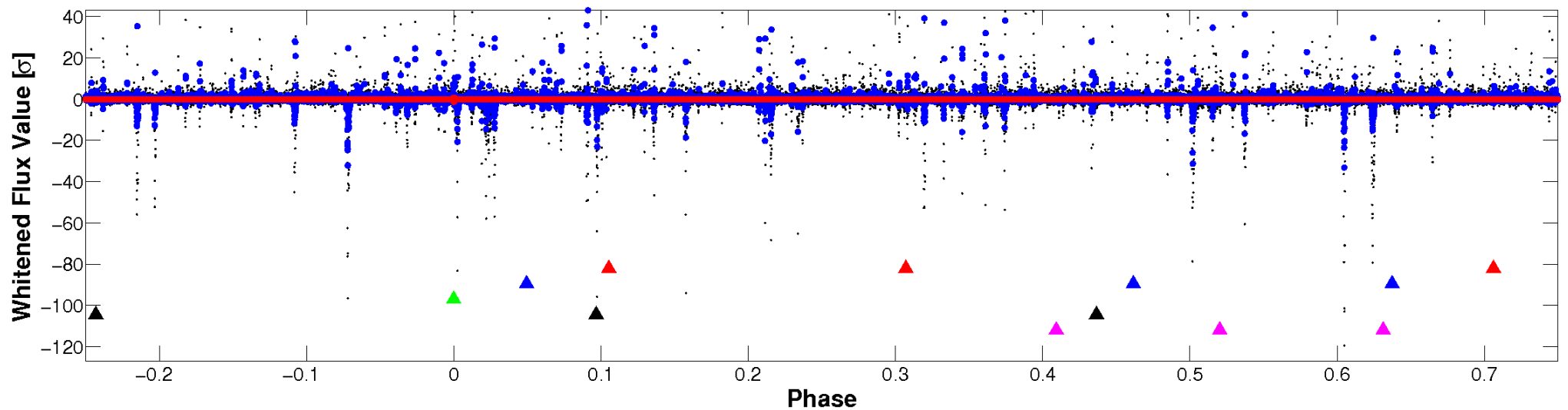


Non-Whitened Vs. Whitened Light Curve

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

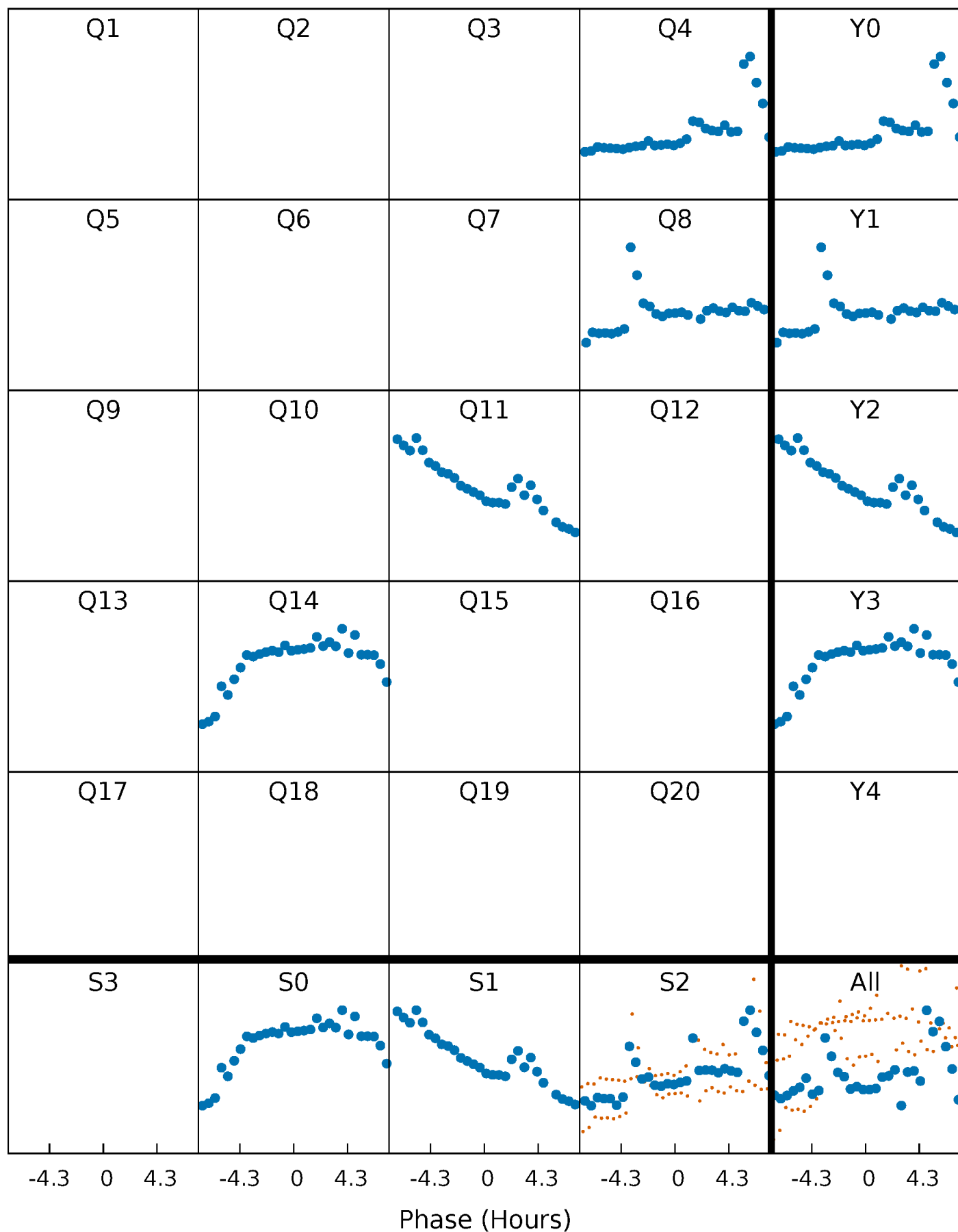


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



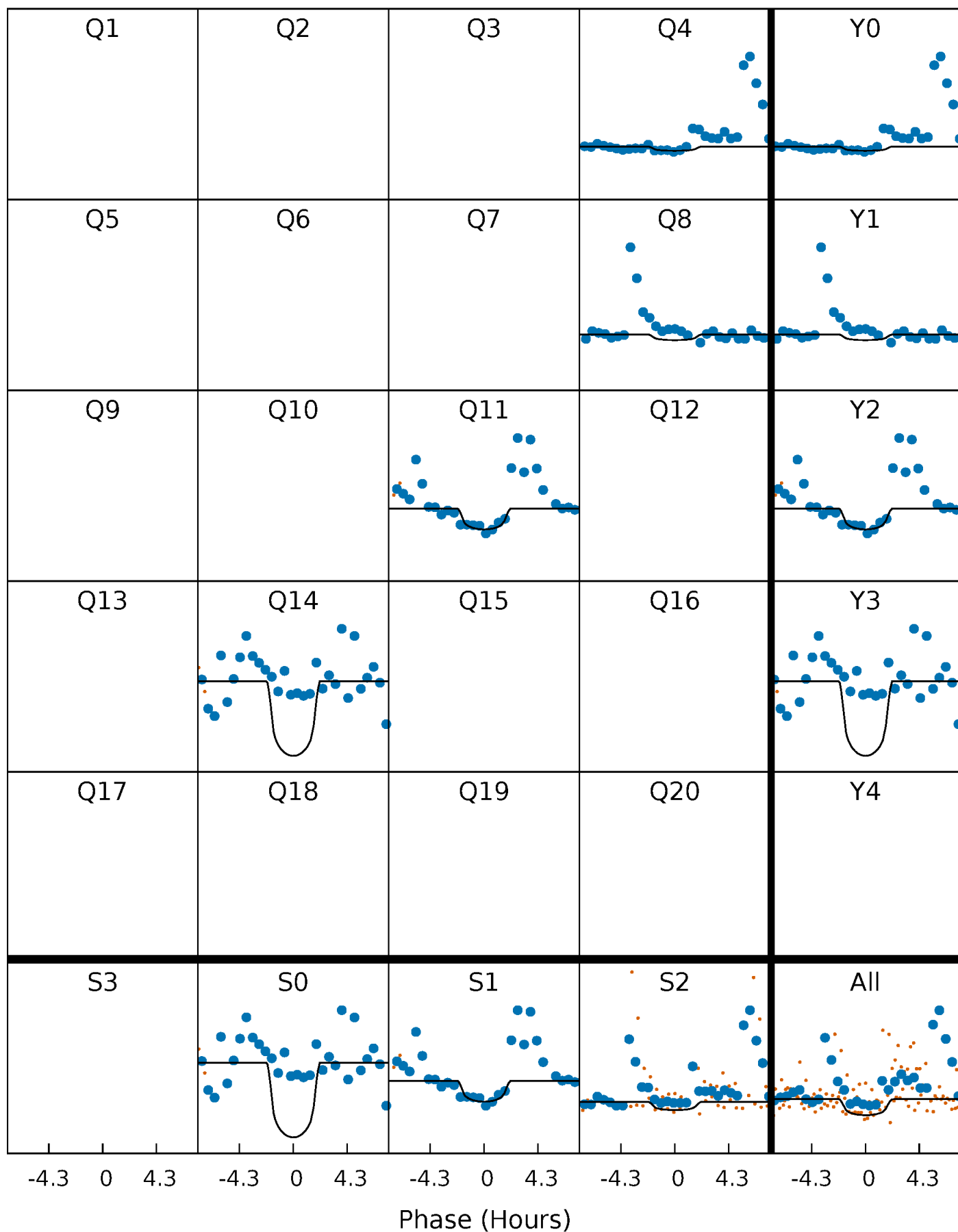
PDC Quarter-Phased Transit Curves

TCE 008292758-03 P=315.735889 Days $T_0=421.506944$ (BKJD)



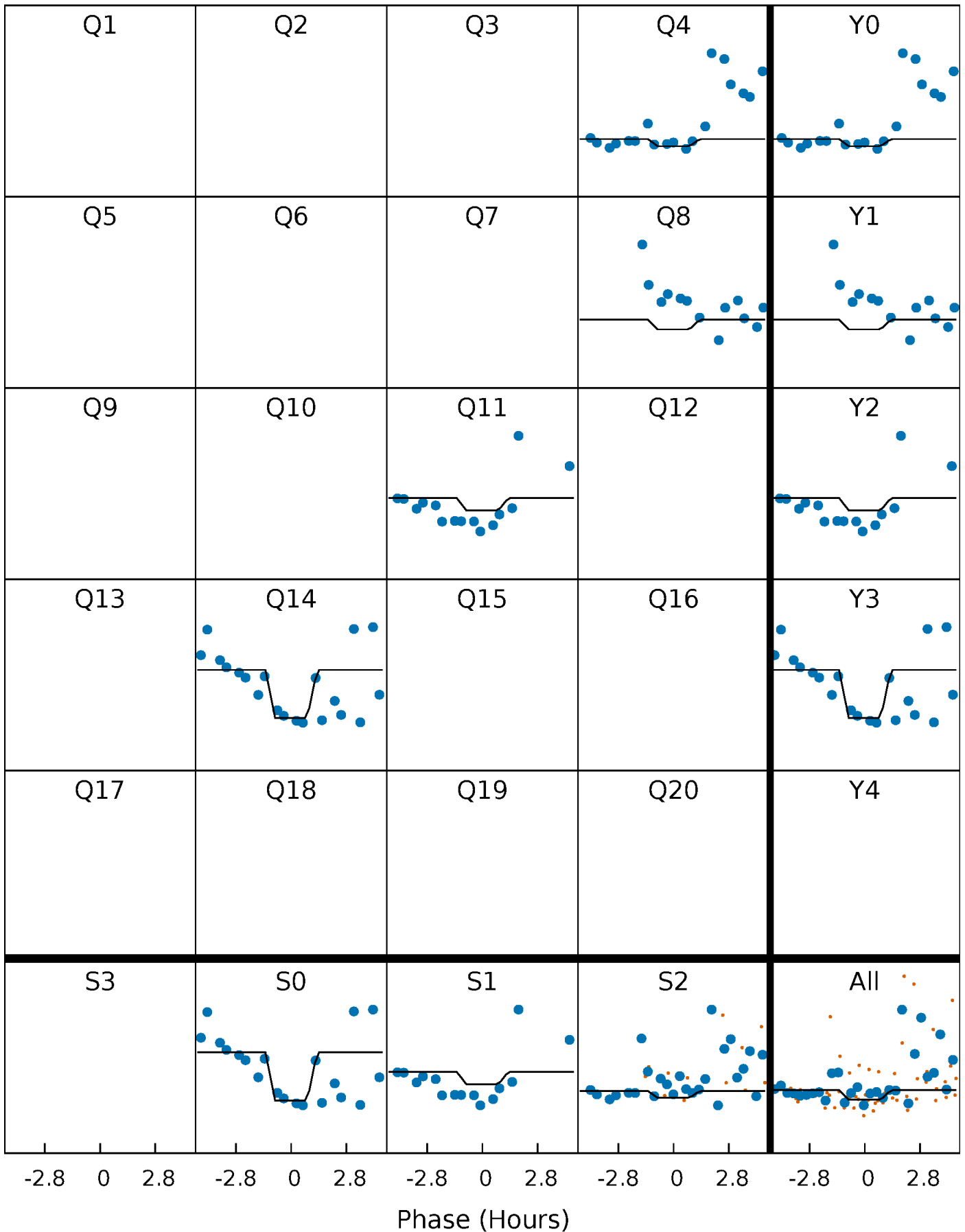
DV Quarter-Phased Transit Curves

TCE 008292758-03 P=315.735889 Days $T_0=421.506944$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

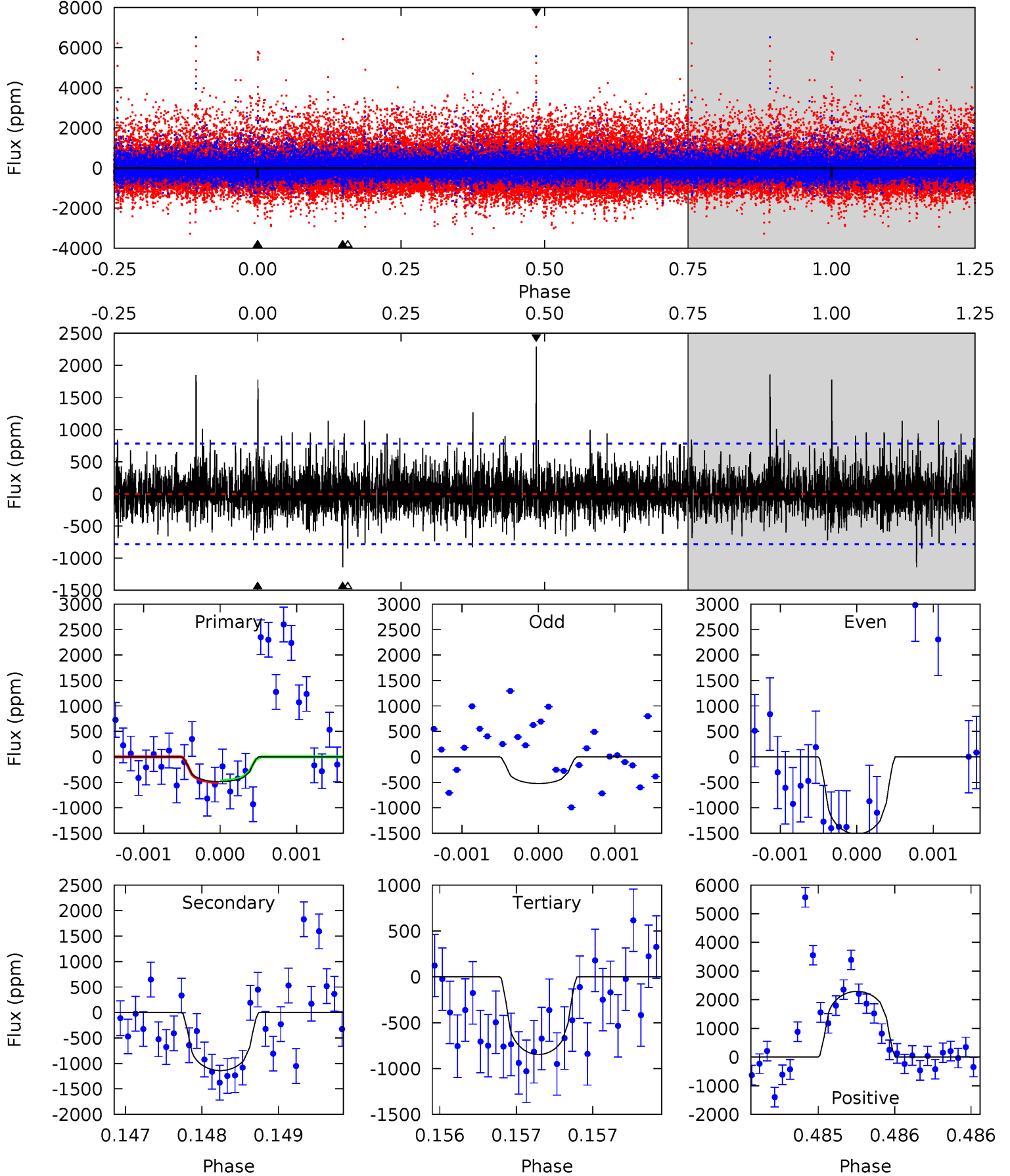
TCE 008292758-03 $P=315.753175$ Days $T_0=421.481190$ (BKJD)



DV Model-Shift Uniqueness Test

008292758-03, P = 315.735889 Days, E = 105.771055 Days

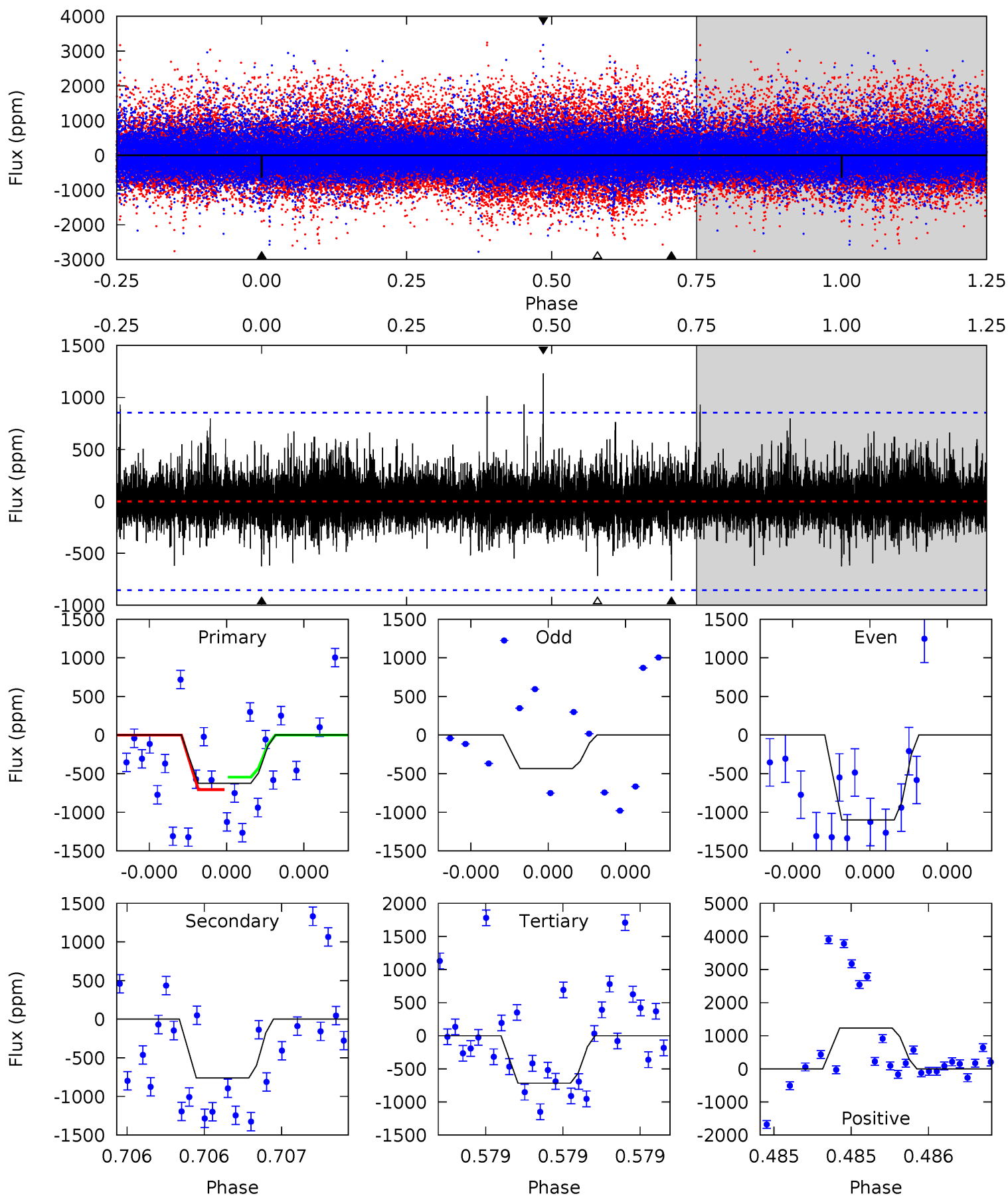
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.46	8.08	6.00	16.2	5.55	3.45	1.70	-2.55	-12.8	2.08	-8.16	2.46	1.12	0.67	0.13



Alt Model-Shift Uniqueness Test

008292758-03, P = 315.753175 Days, E = 105.728015 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.14	5.05	4.75	8.17	5.66	3.62	1.07	-0.61	-4.03	0.30	-3.12	2.21	0.51	0.62	0.53



Stellar Parameters For KIC 008292758

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3982^{+87}_{-87}	$4.667^{+0.038}_{-0.013}$	$0.000^{+0.100}_{-0.100}$	$0.587^{+0.020}_{-0.031}$	$0.584^{+0.030}_{-0.027}$	$4.064^{+0.585}_{-0.245}$
	+2%/-2%	+1%/-0%	+inf%/-inf%	+3%/-5%	+5%/-5%	+14%/-6%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 008292758-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1141 ± 141	$6.06^{+5.88}_{-4.10}$	215^{+6}_{-5}	2896^{+1185}_{-467}	9983^{+87201}_{-7416}
Alt.	-761 ± 151	$5.69^{+6.06}_{-3.76}$	215^{+5}_{-5}	2780^{+1081}_{-448}	7274^{+57821}_{-5496}

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

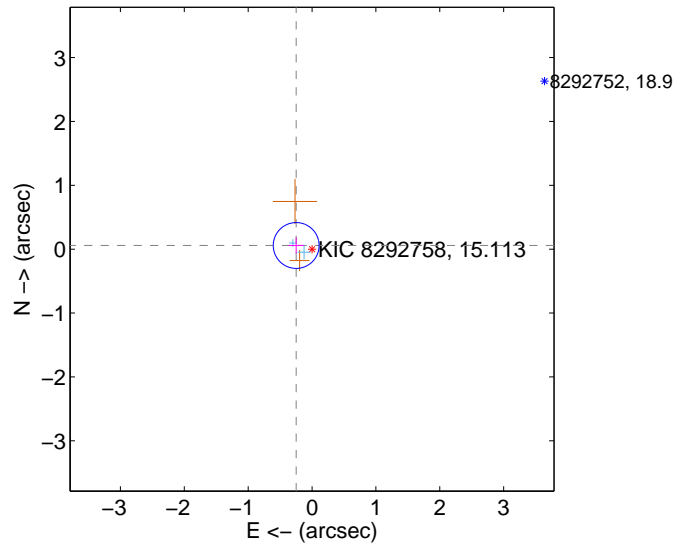
Supplemental centroid analysis for 008292758-03. Kepler magnitude: 15.11. Transit SNR 6.82

There are 2 quarters with good PRF difference image offsets

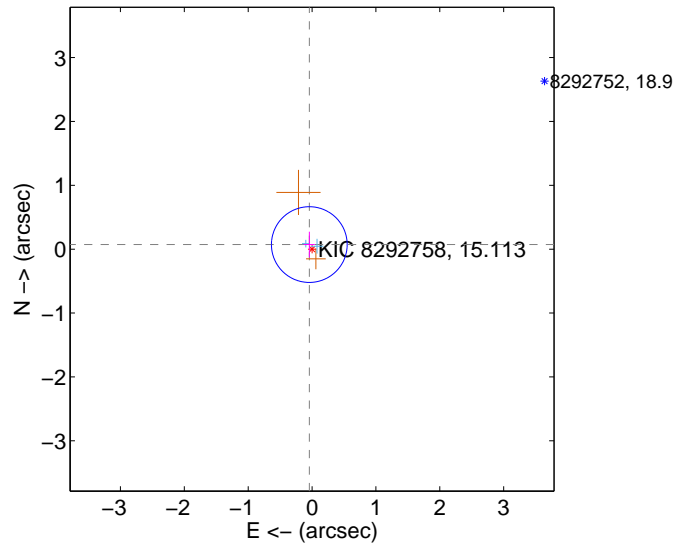
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.255 ± 0.120	2.13	0.248 ± 0.119	0.057 ± 0.122
PRF-fit source offset from KIC position	0.084 ± 0.198	0.42	0.043 ± 0.086	0.072 ± 0.201
photometric centroid source offset	1.06 ± 0.70	1.52	-1.02 ± 0.70	0.30 ± 0.70

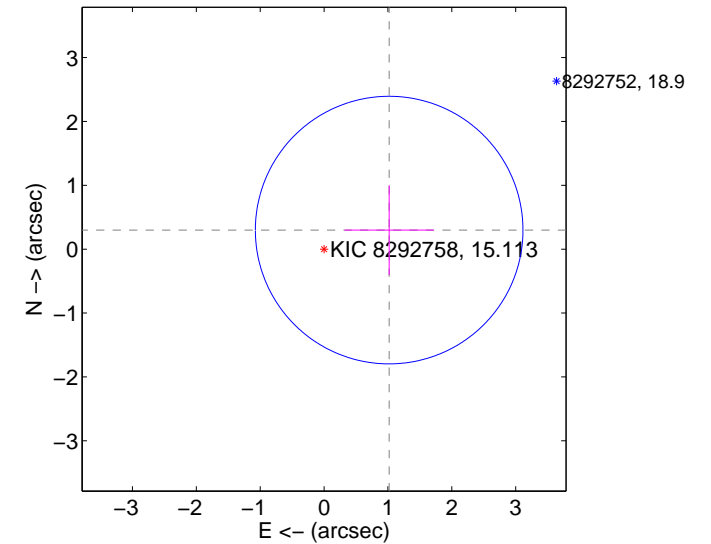
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

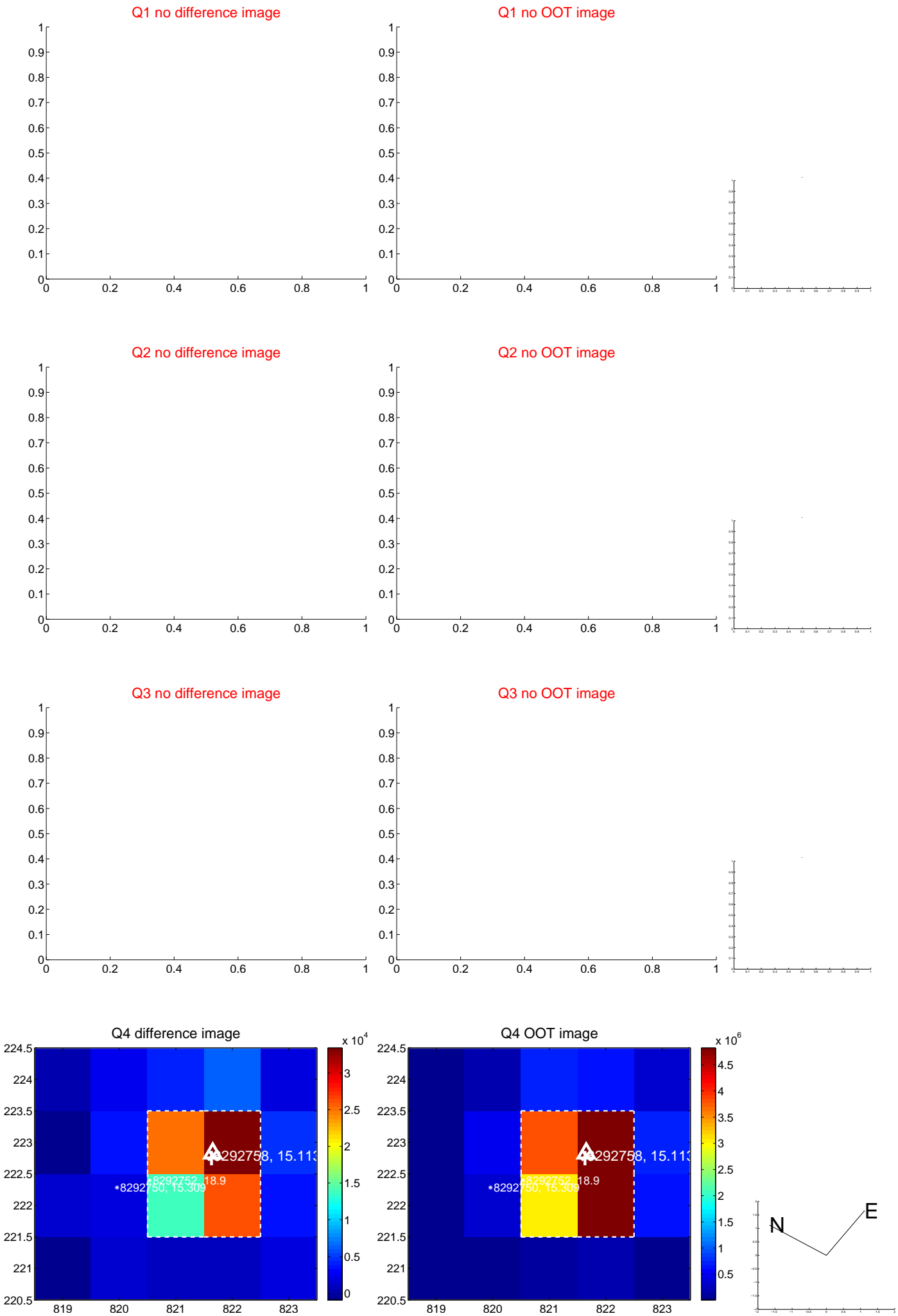


offset from photometric centroids

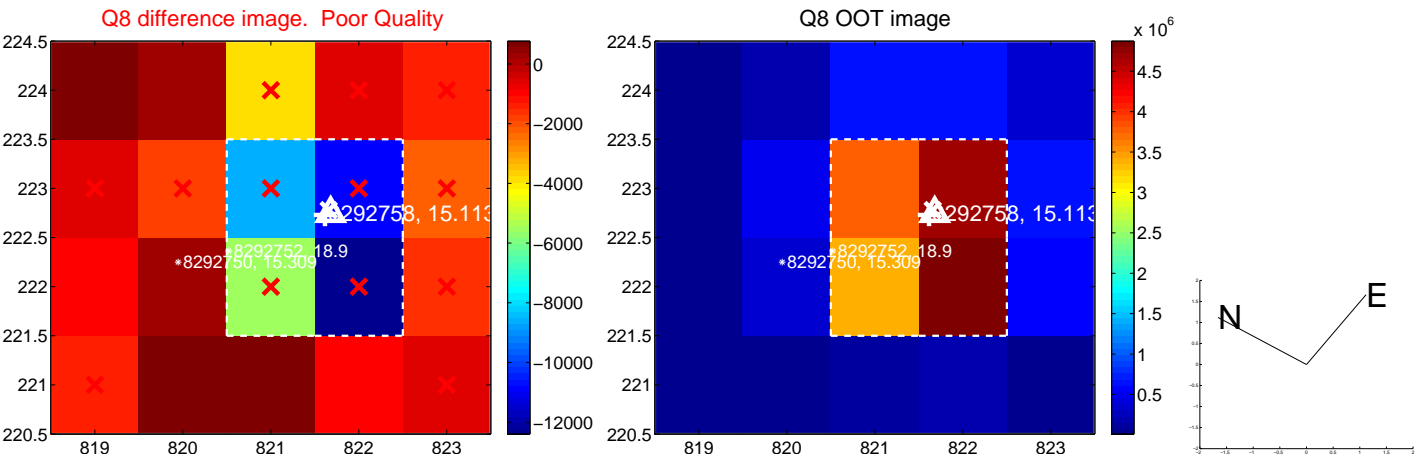


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

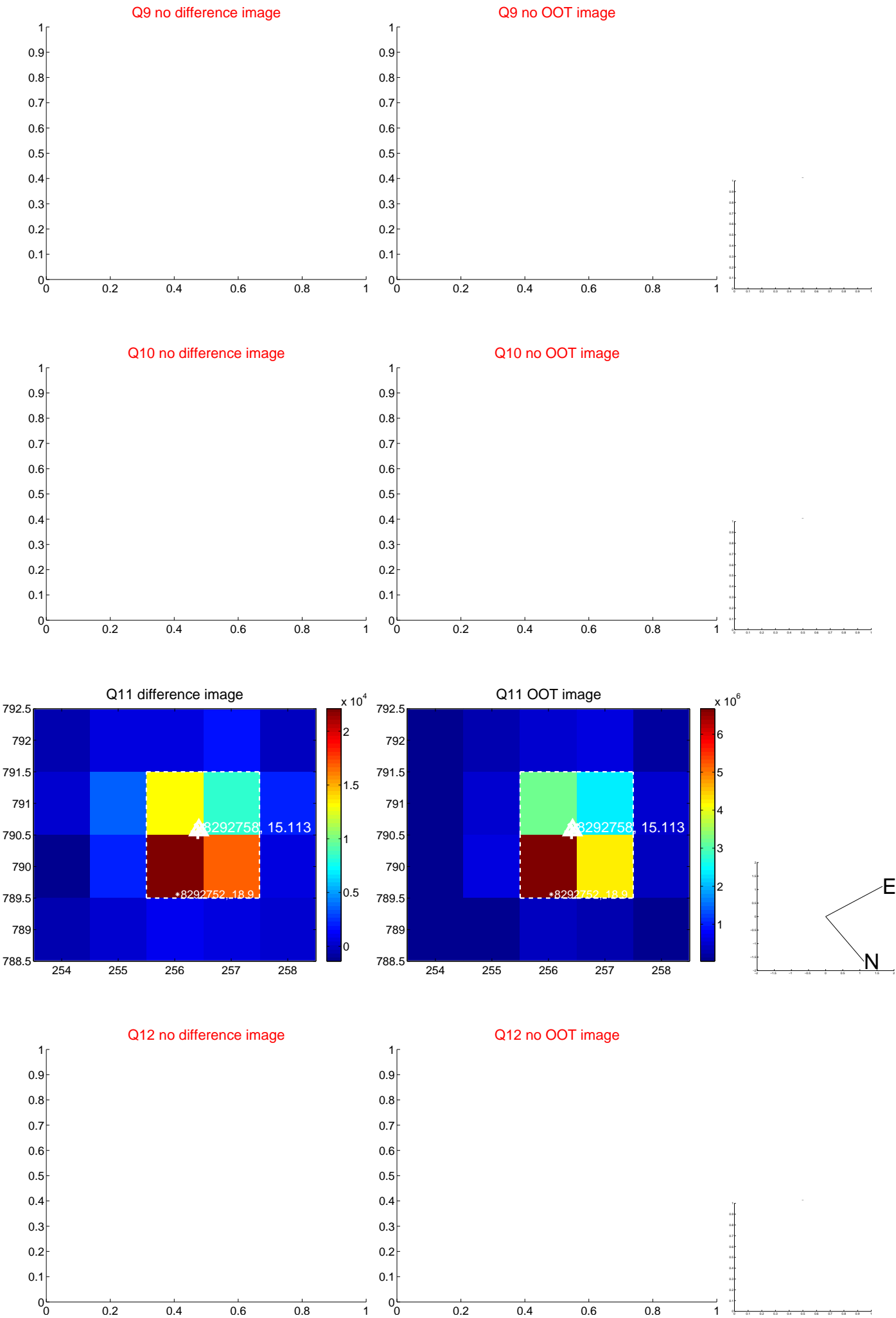
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



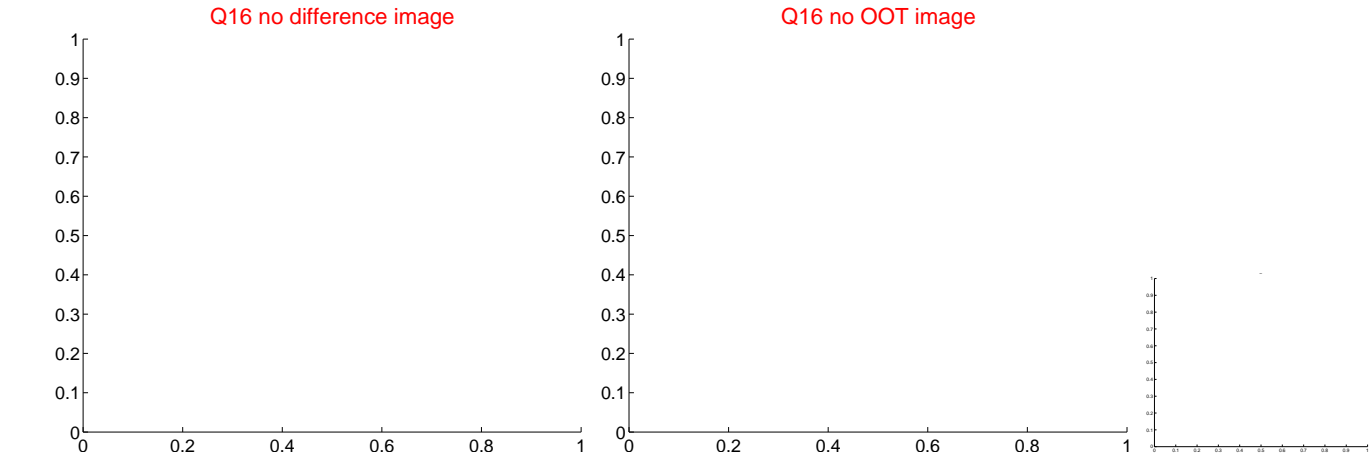
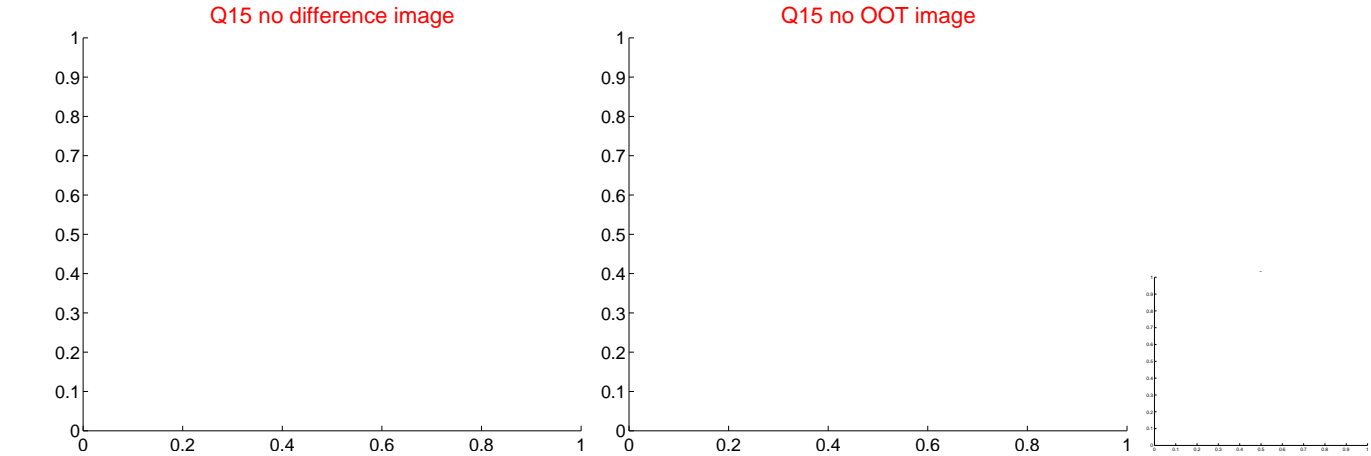
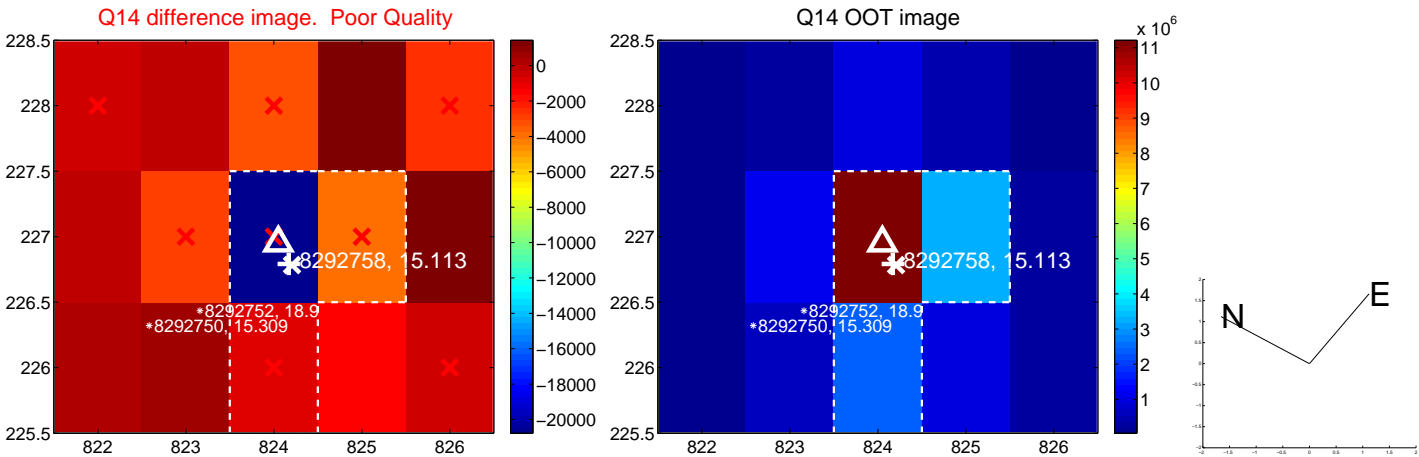
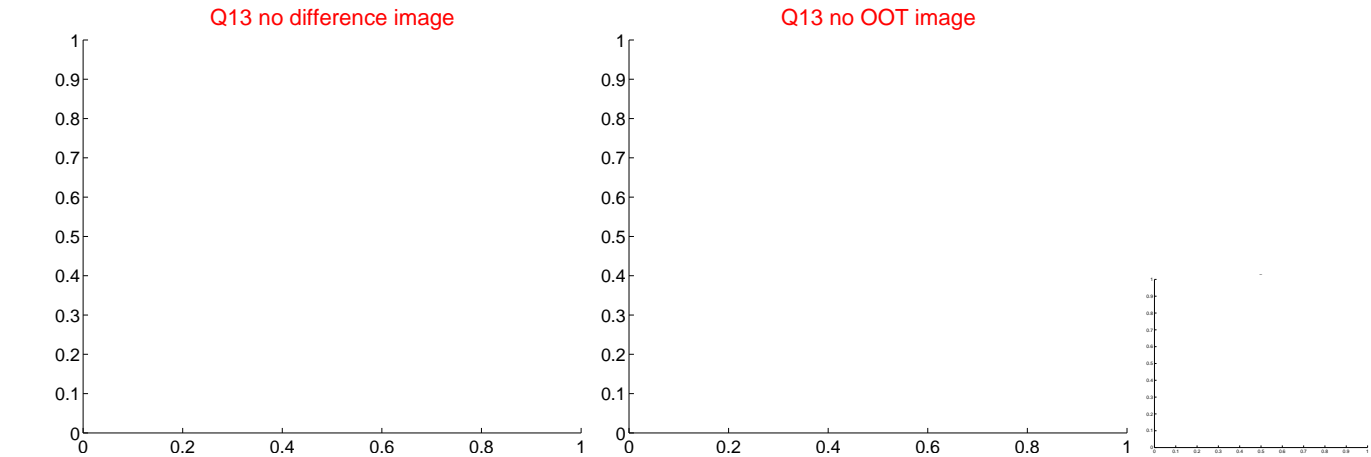
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



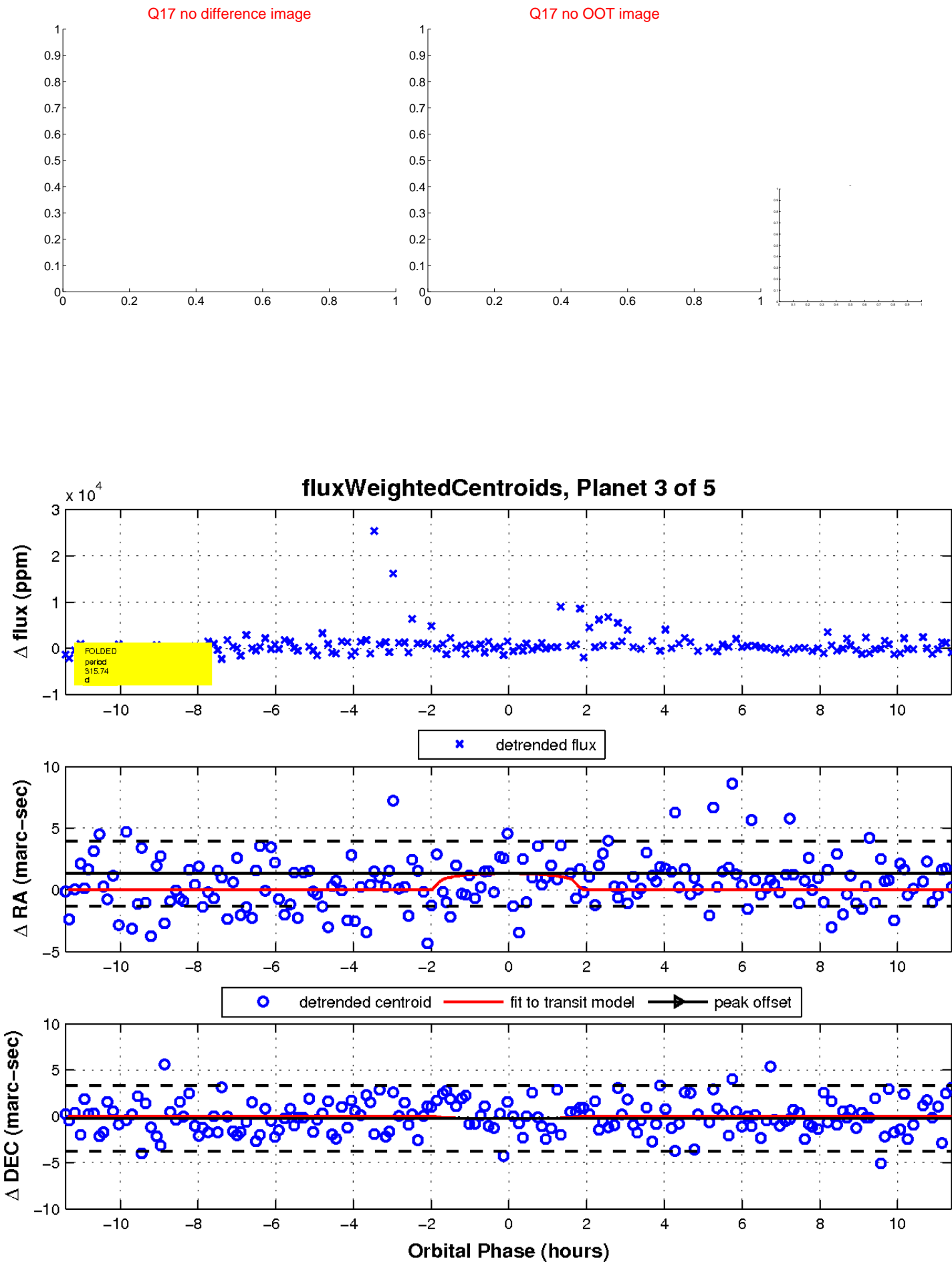
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

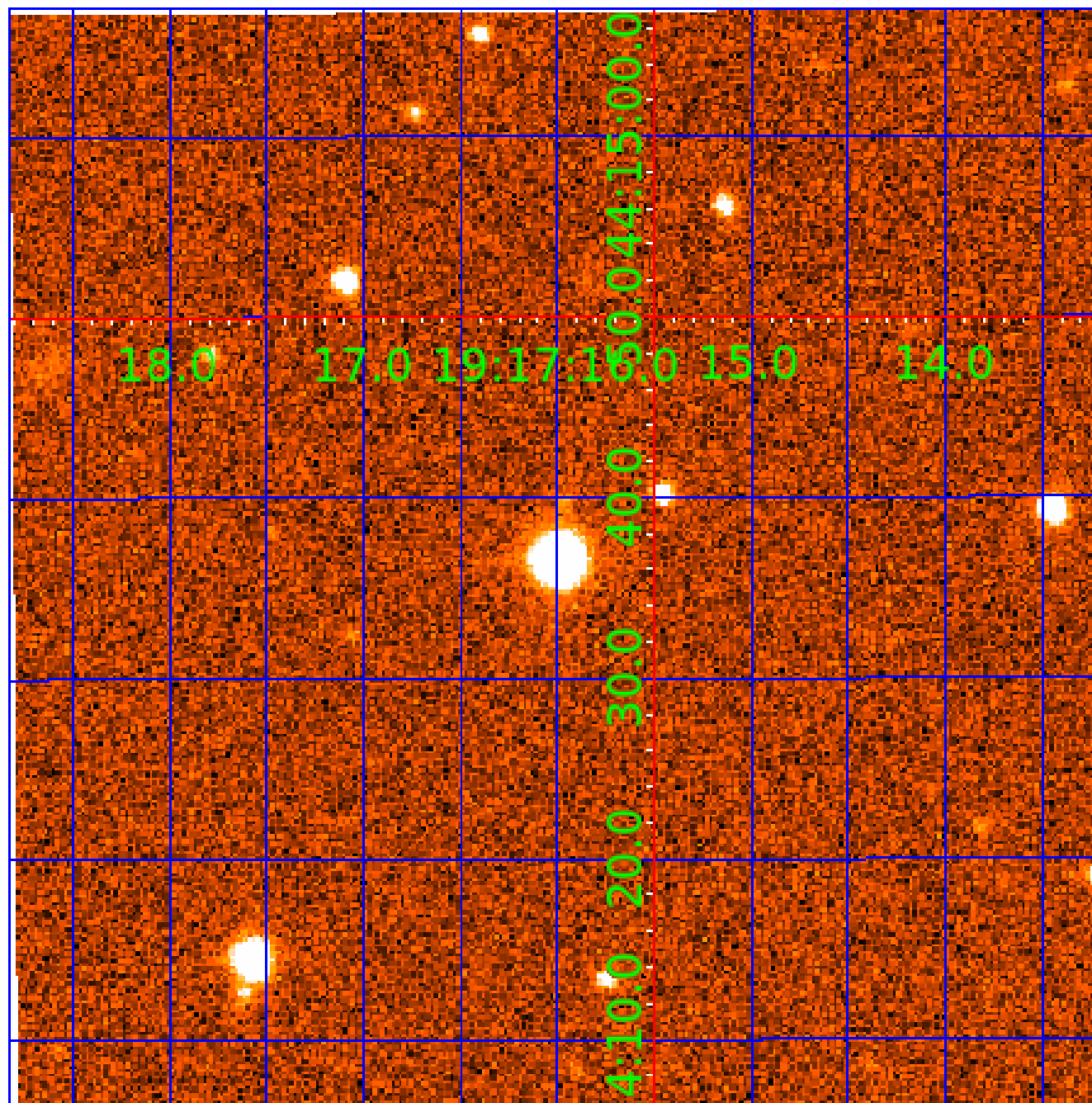


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008292758

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})
008292758-01	OBS	No	505.450043	454.773442	2255.1	4.132	15.2	8.2	0.59	3982	2.84	0.07
008292758-02	OBS	No	445.859272	307.011981	1570.2	15.607	11.8	4.7	0.59	3982	2.34	0.09
008292758-03	OBS	No	315.735889	421.506944	1636.6	3.803	11.6	6.8	0.59	3982	2.36	0.14
008292758-04	OBS	No	423.034398	344.754944	2671.7	11.052	13.5	8.3	0.59	3982	3.06	0.09
008292758-05	OBS	No	666.525391	234.991627	2325.9	6.343	14.4	8.2	0.59	3982	2.78	0.05

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008292758-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008292758-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008292758-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008292758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_ALT—INCONSISTENT_TRANS
008292758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

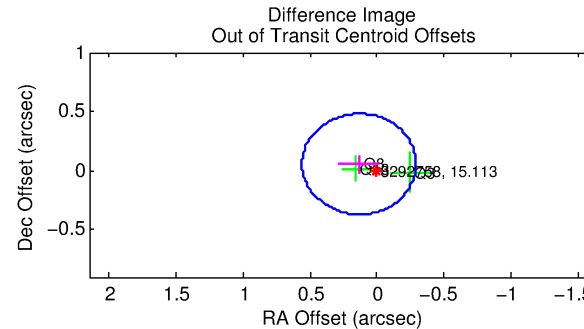
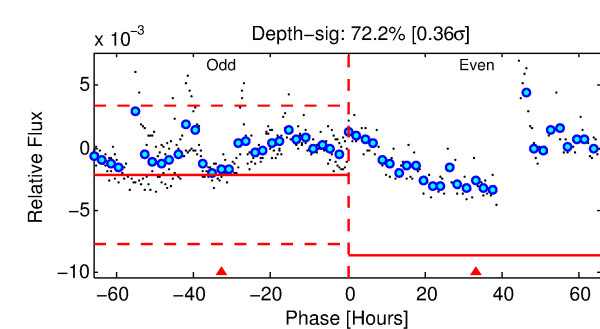
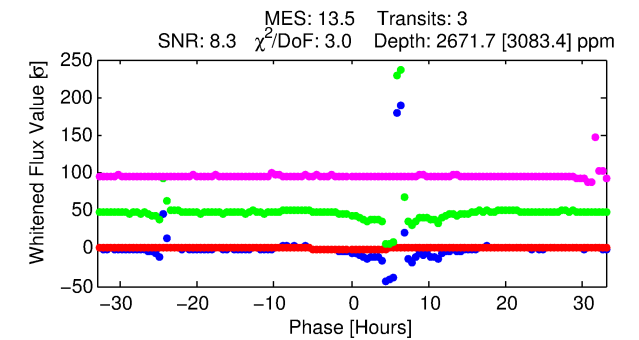
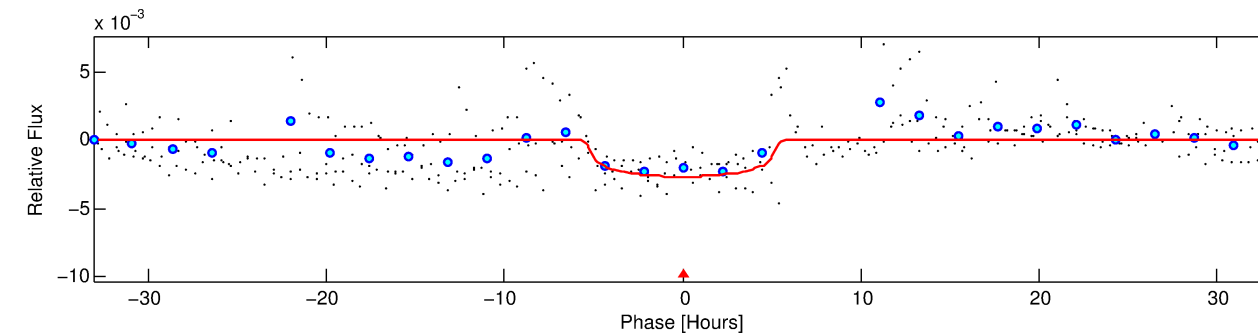
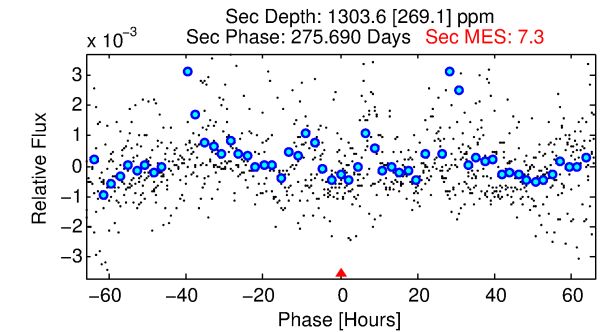
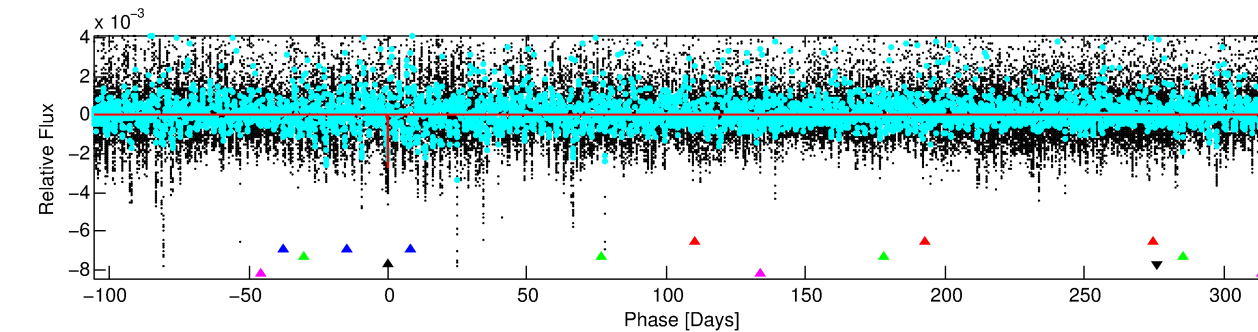
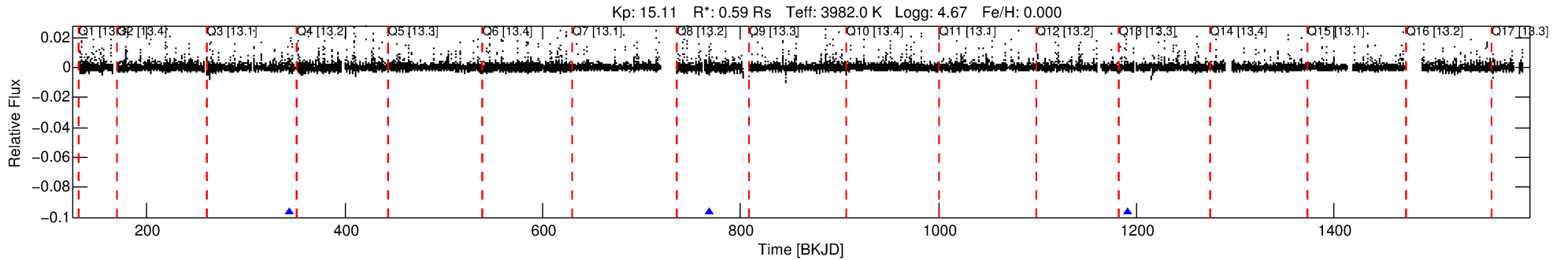
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008292758-04

No Significant Match Found

DV One-Page Summary

KIC: 8292758 Candidate: 4 of 5 Period: 423.034 d



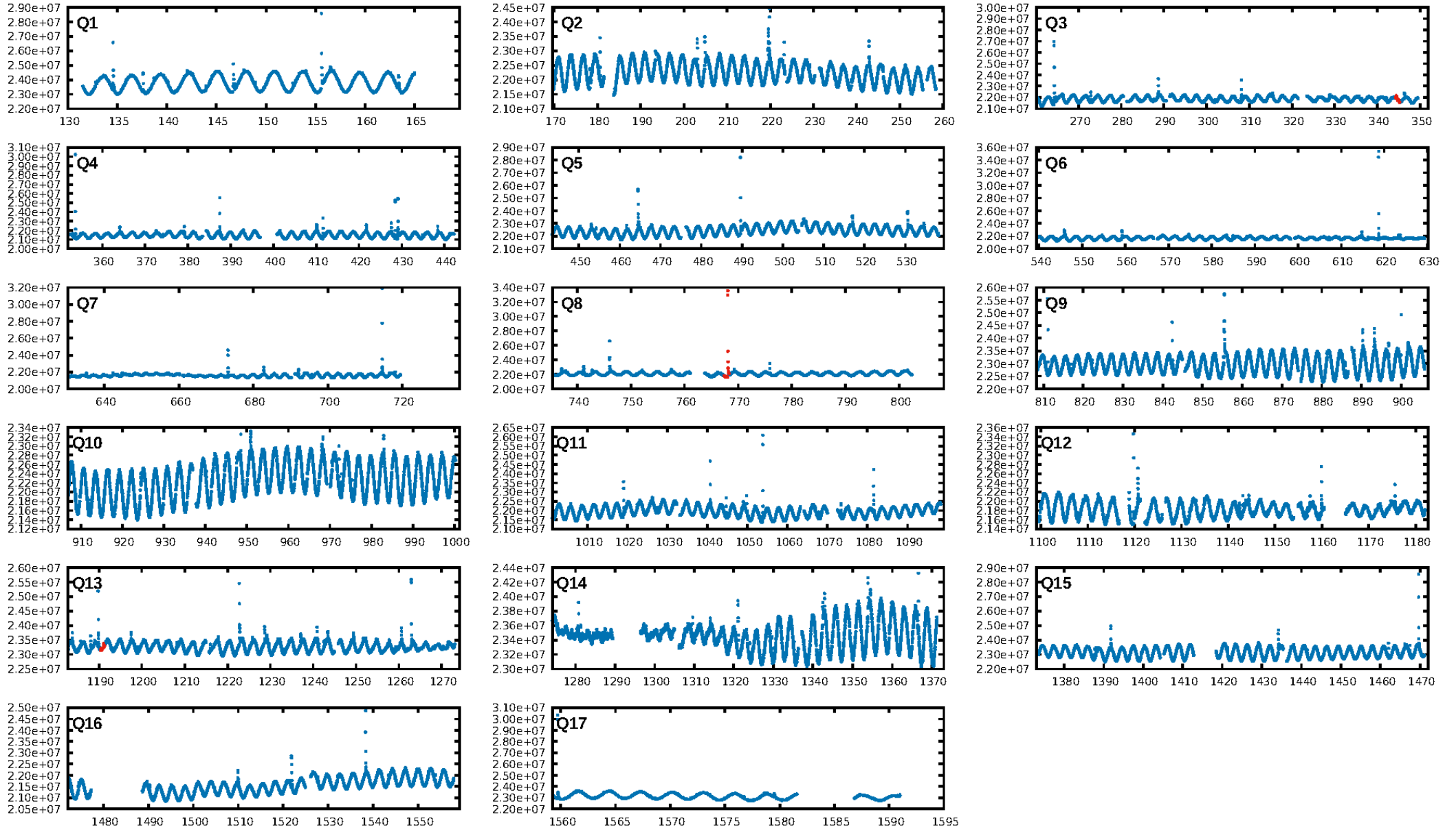
DV Fit Results:

Period = 423.03440 [0.05564] d
Epoch = 344.7549 [0.0805] BKJD
Rp/R* = 0.0478 [0.0789]
a/R* = 272.77 [1438.56]
b = 0.48 [8.61]
Seff = 0.09 [0.01]
Teq = 140 [4] K
Rp = 3.06 [5.05] Re
a = 0.9219 [0.0422] AU
Ag = 65078.85 [215302.79] [0.30σ]
Teffp = 3462 [2863] K [1.16σ]

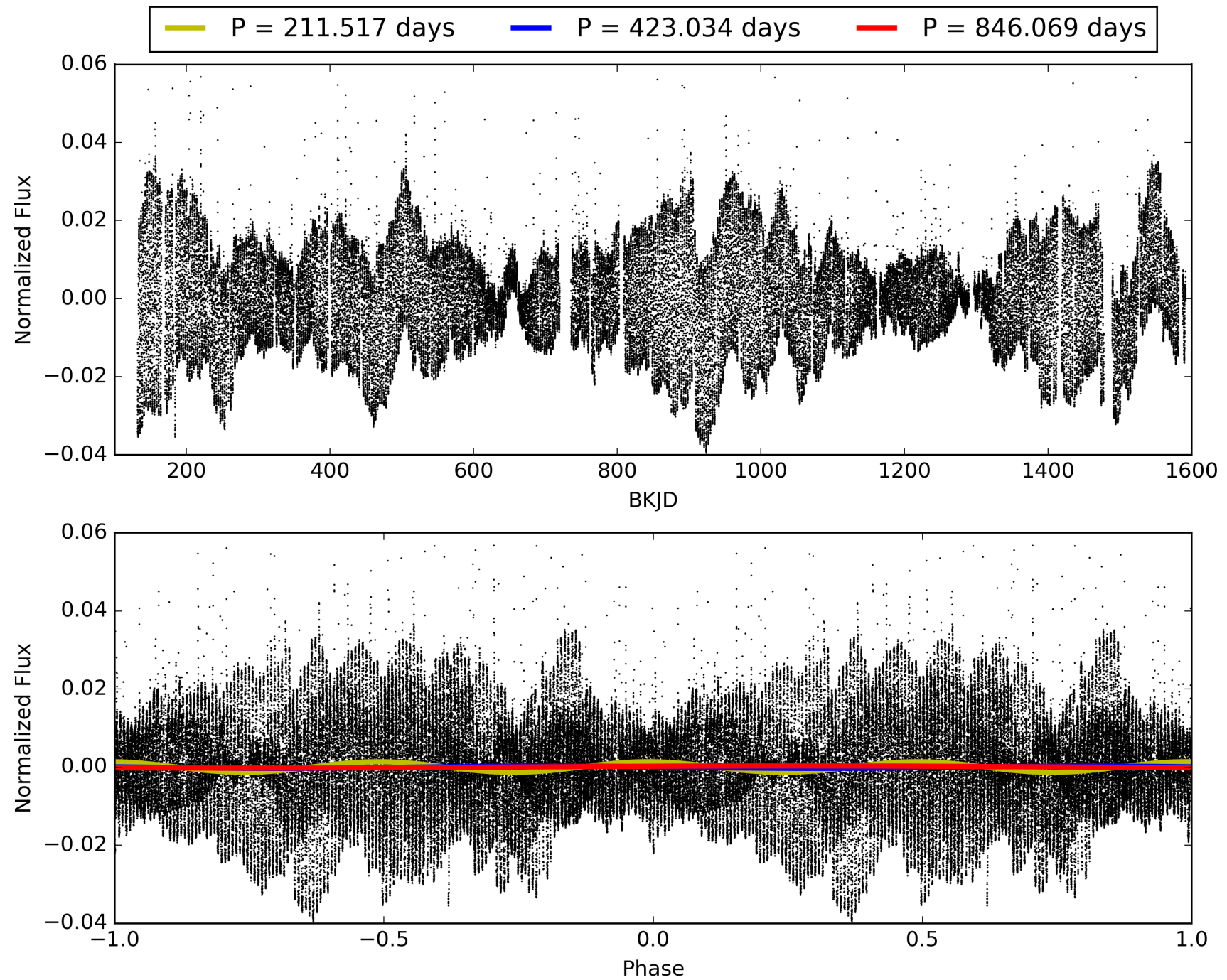
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [220.32σ]
LongPeriod-sig: 100.0% [28.64σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 73.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.8315
Centroid-sig: 0.1%
Centroid-so: 0.992 arcsec [2.84σ]
OotOffset-rm: 0.145 arcsec [1.02σ]
KicOffset-rm: 0.152 arcsec [1.01σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 008292758-04, PDC Light Curves

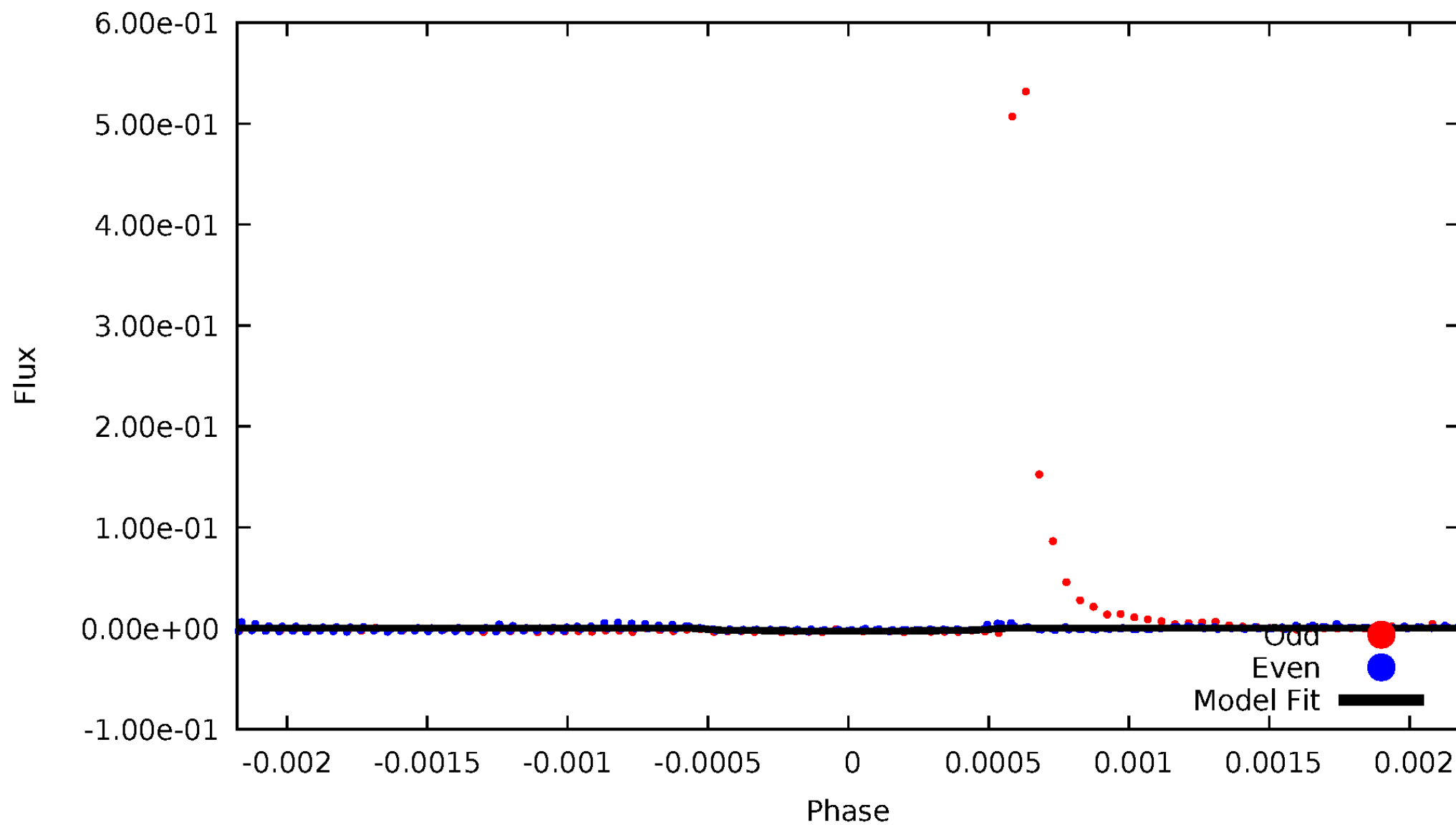


TCE 008292758-04



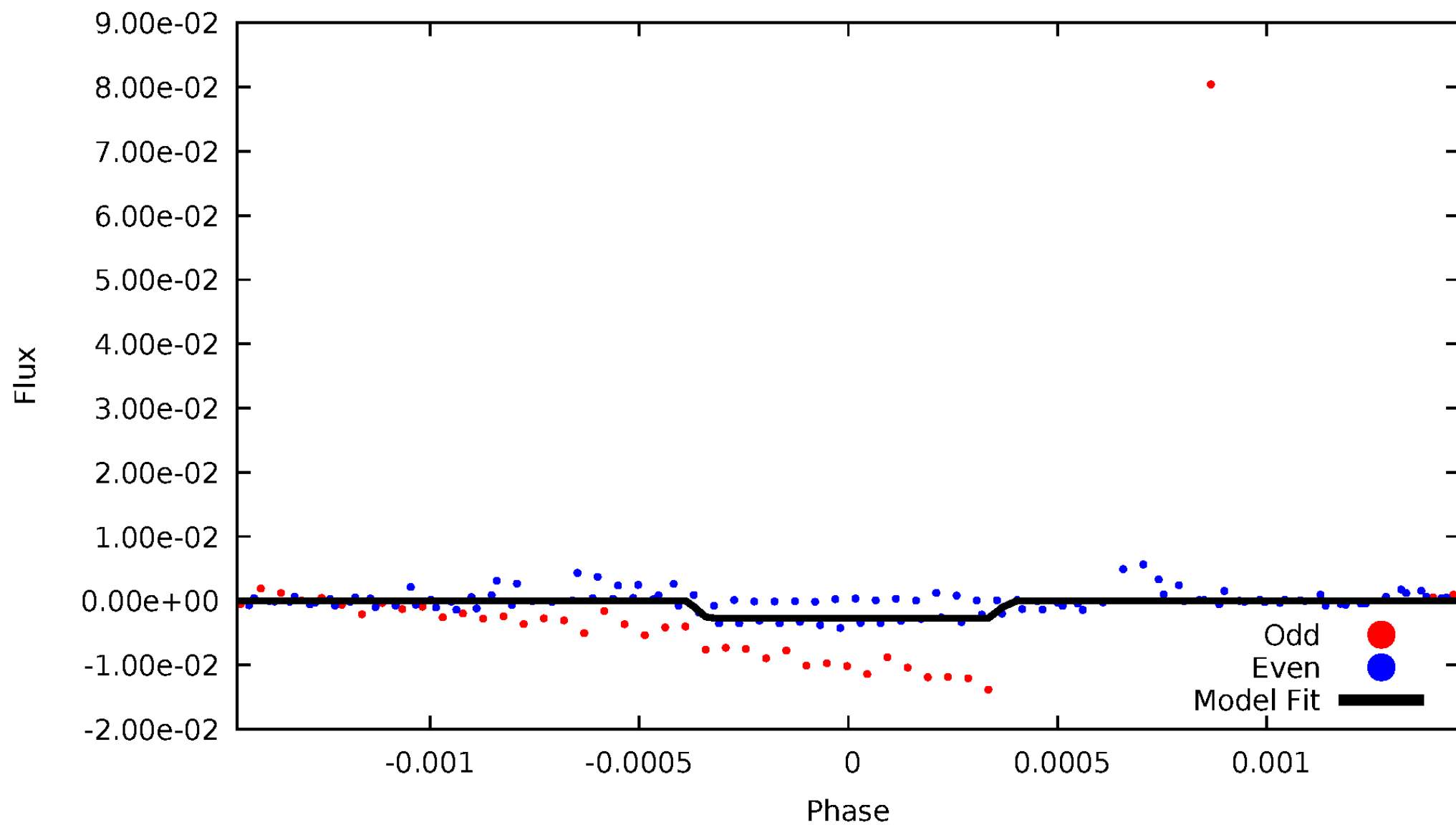
DV Odd/Even

TCE 008292758-04



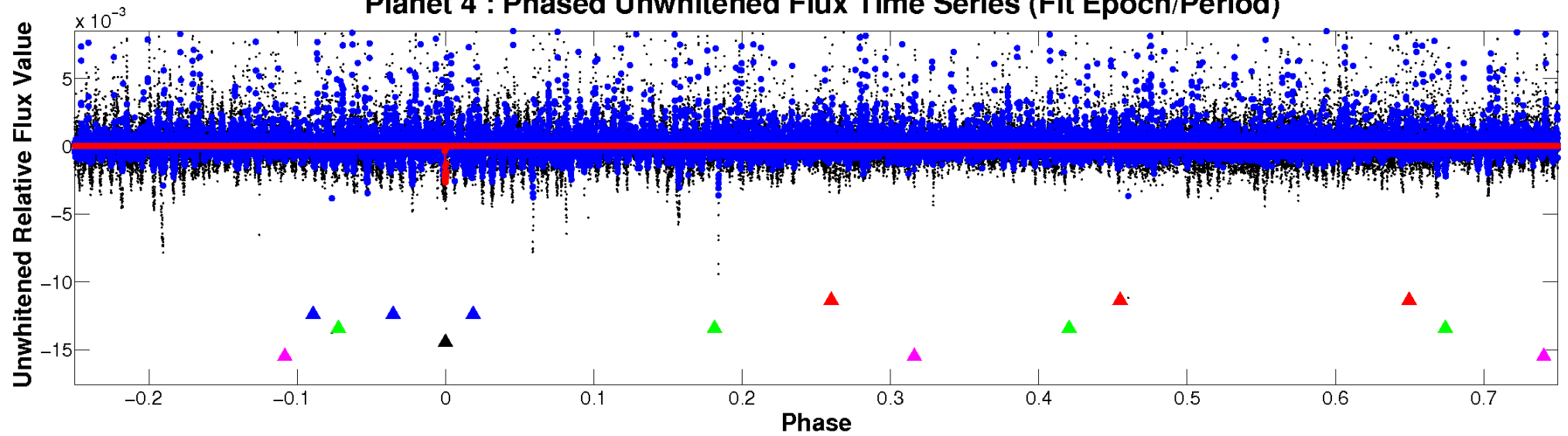
ALT Odd/Even

TCE 008292758-04

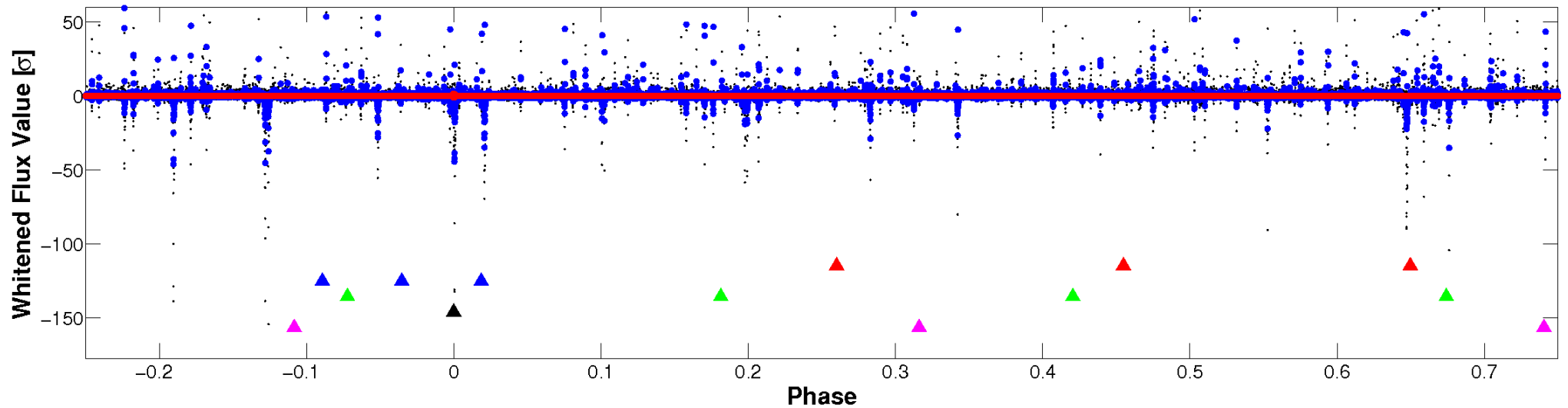


Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

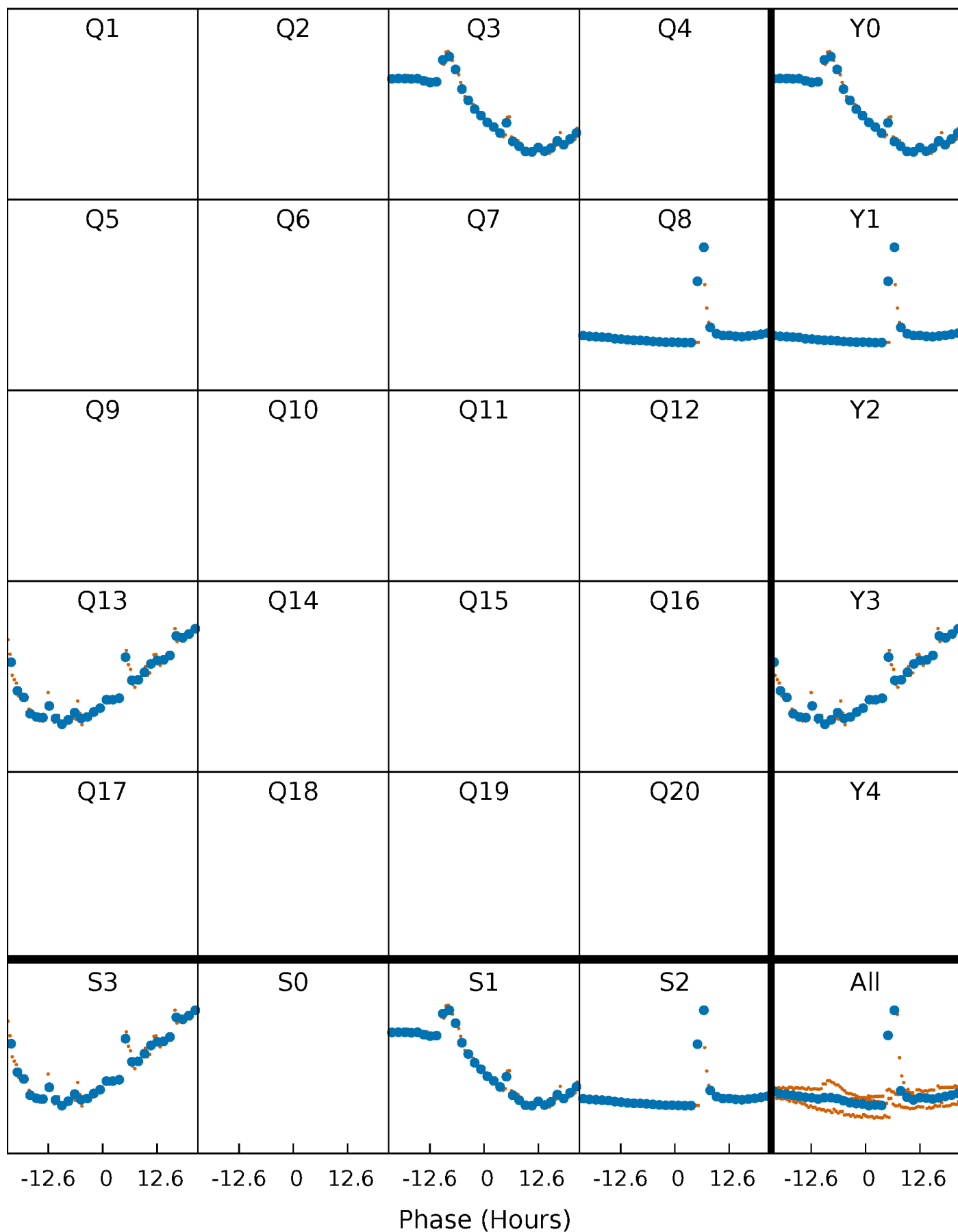


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



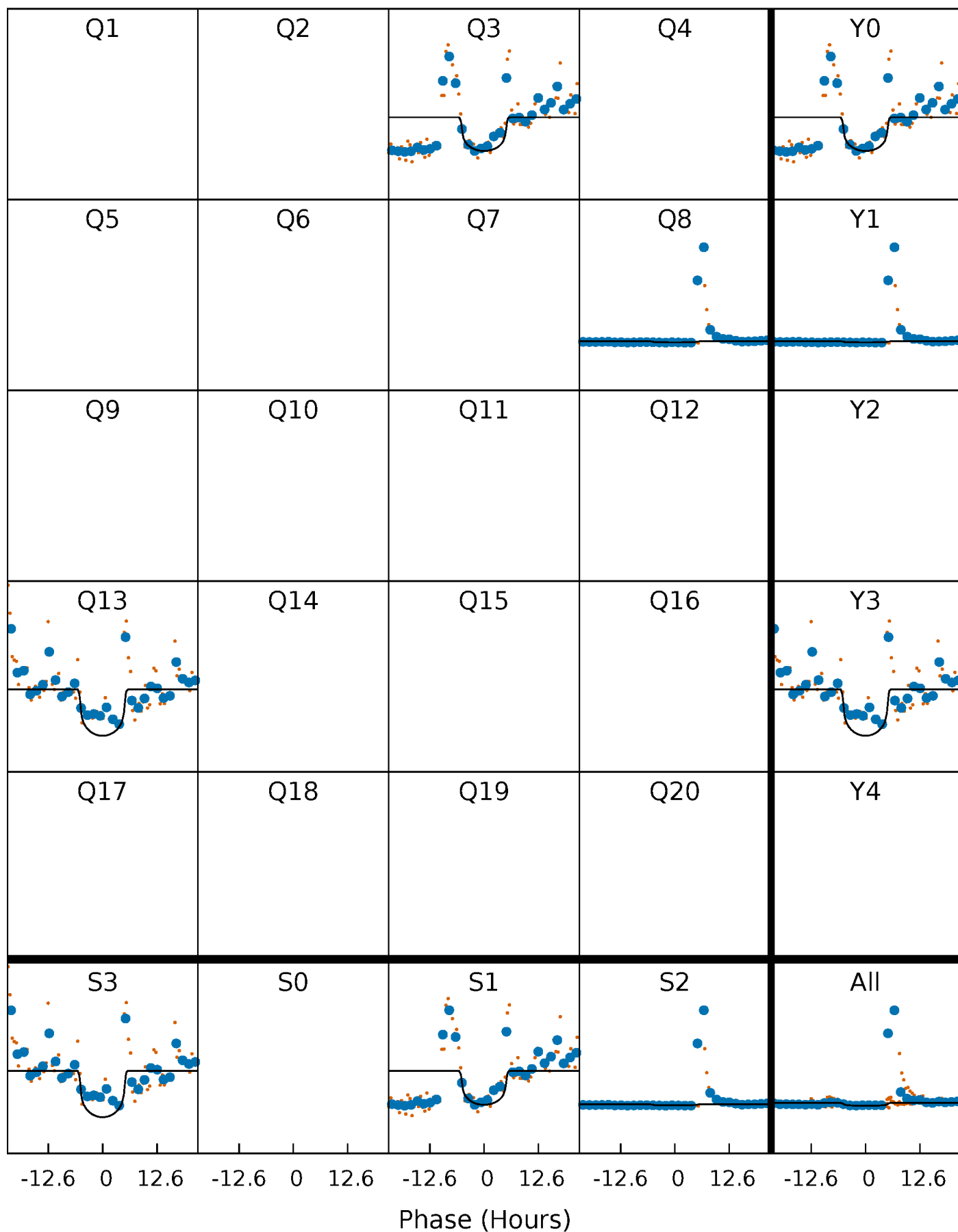
PDC Quarter-Phased Transit Curves

TCE 008292758-04 $P=423.034398$ Days $T_0=344.754944$ (BKJD)



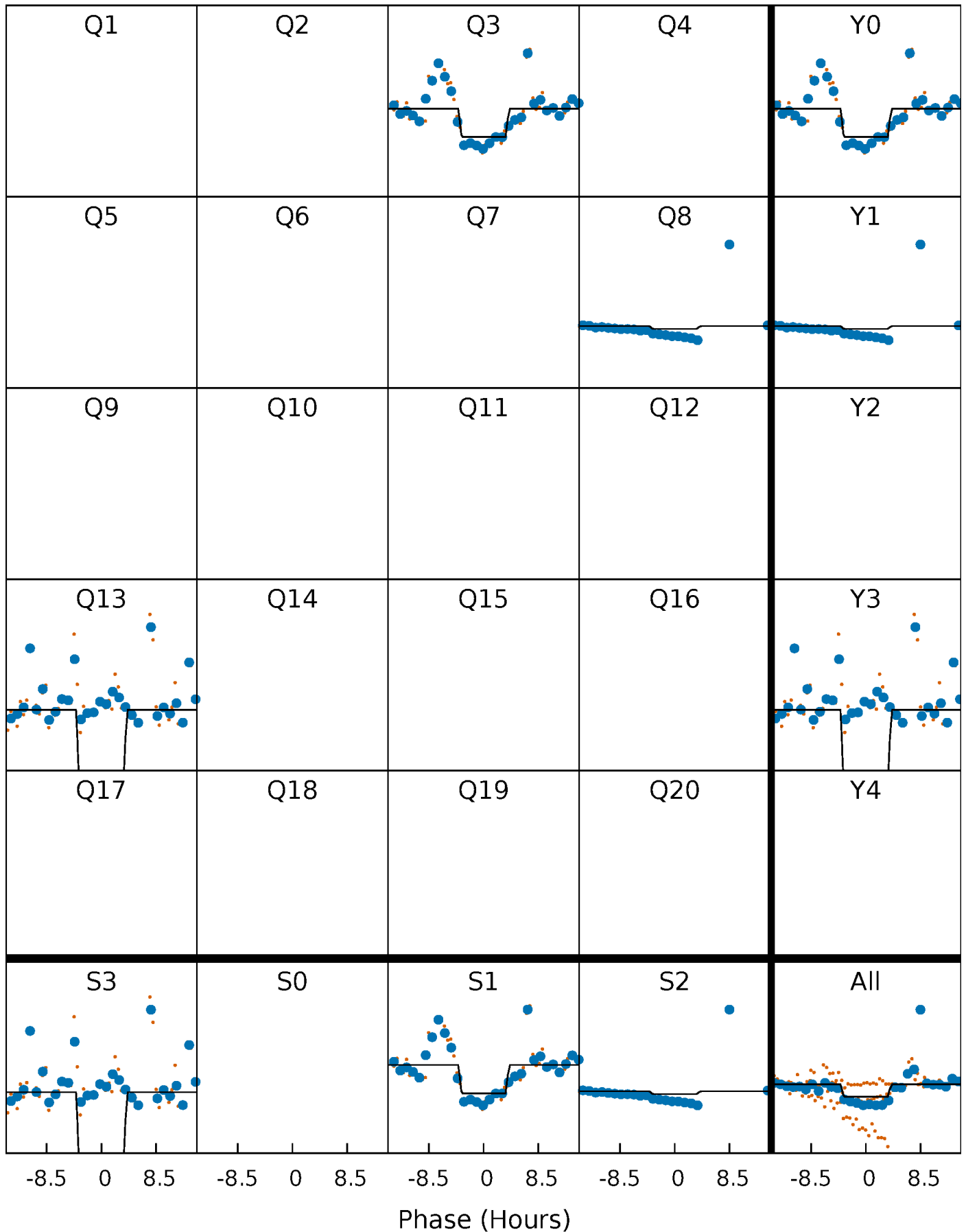
DV Quarter-Phased Transit Curves

TCE 008292758-04 $P=423.034398$ Days $T_0=344.754944$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

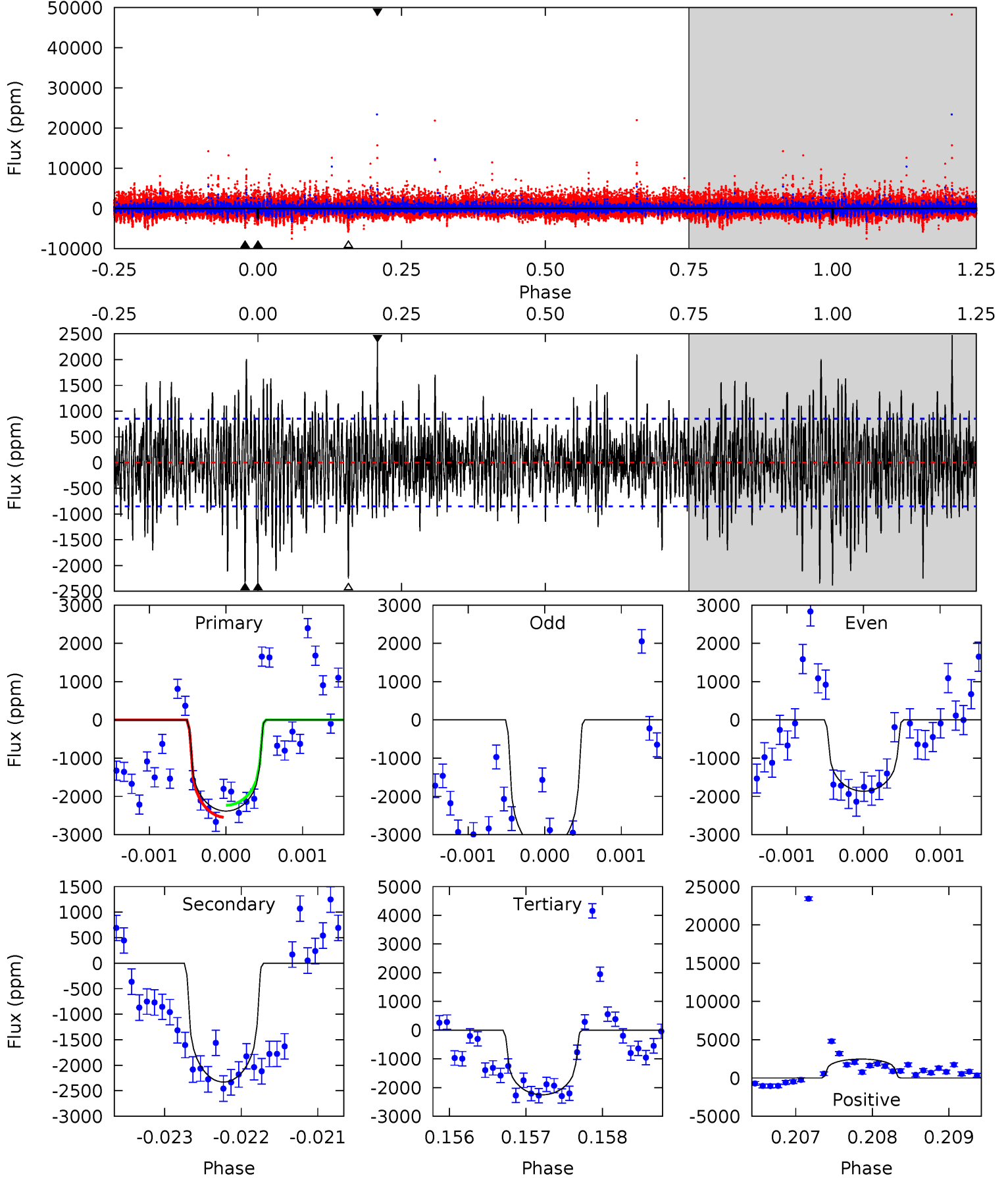
TCE 008292758-04 $P=423.029181$ Days $T_0=344.702028$ (BKJD)



DV Model-Shift Uniqueness Test

008292758-04, P = 423.034398 Days, E = 344.754944 Days

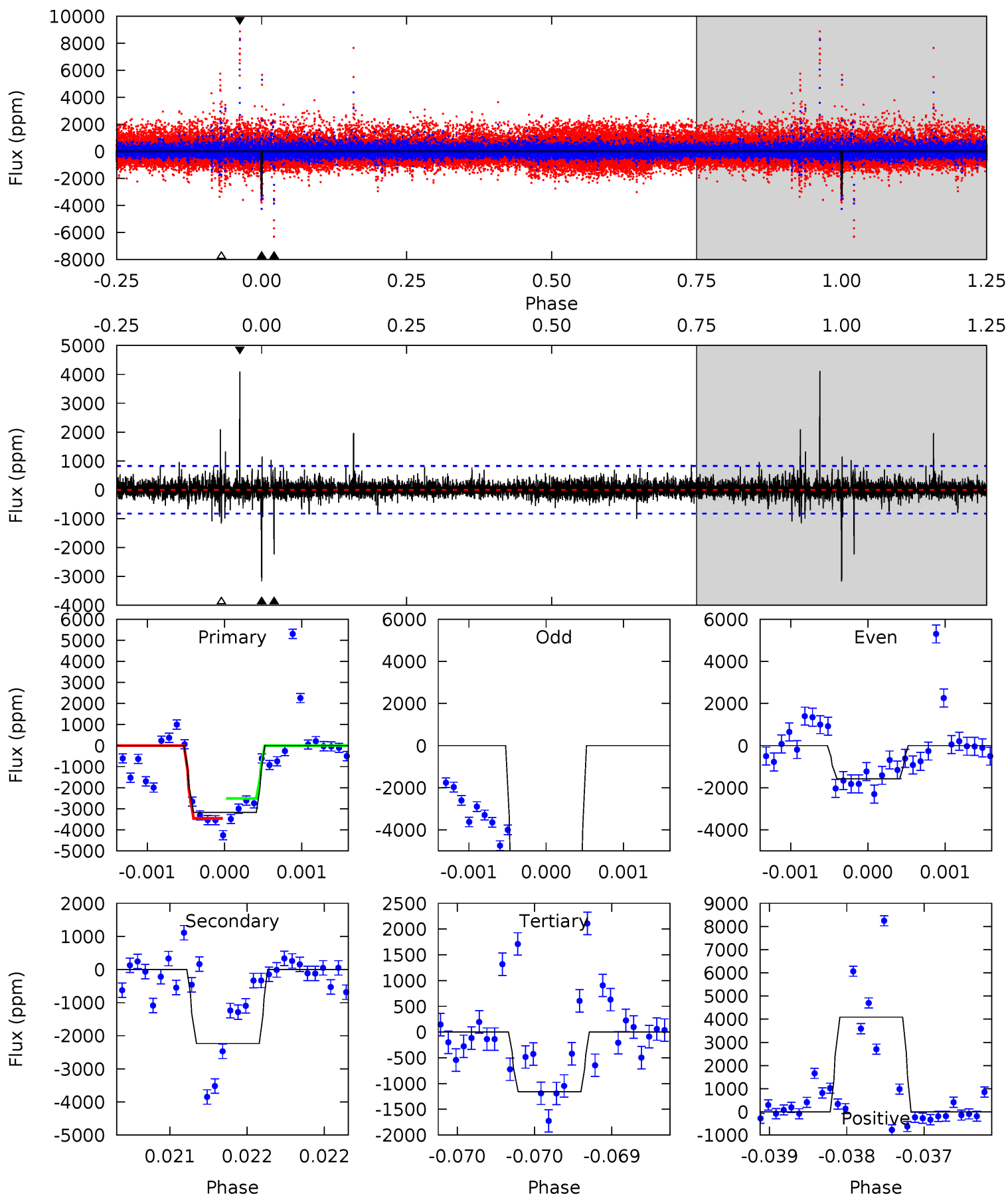
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.2	14.9	14.4	15.8	5.43	3.26	3.49	0.84	-0.59	0.50	-0.93	2.73	1.08	0.51	1.02



Alt Model-Shift Uniqueness Test

008292758-04, P = 423.029181 Days, E = 344.702028 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.1	14.9	7.72	27.3	5.50	3.36	1.23	13.4	-6.11	7.18	-12.3	31.9	1.33	0.56	0



Stellar Parameters For KIC 008292758

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	3982^{+87}_{-87}	$4.667^{+0.038}_{-0.013}$	$0.000^{+0.100}_{-0.100}$	$0.587^{+0.020}_{-0.031}$	$0.584^{+0.030}_{-0.027}$	$4.064^{+0.585}_{-0.245}$
	+2%/-2%	+1%/-0%	+inf%/-inf%	+3%/-5%	+5%/-5%	+14%/-6%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 008292758-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-2329 ± 157	$4.67^{+4.29}_{-3.32}$	195^{+5}_{-5}	3459^{+2079}_{-596}	$50761^{+573459}_{-36981}$
Alt.	-2237 ± 150	$5.02^{+4.14}_{-3.30}$	195^{+5}_{-5}	3379^{+1556}_{-541}	$41969^{+304453}_{-29366}$

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

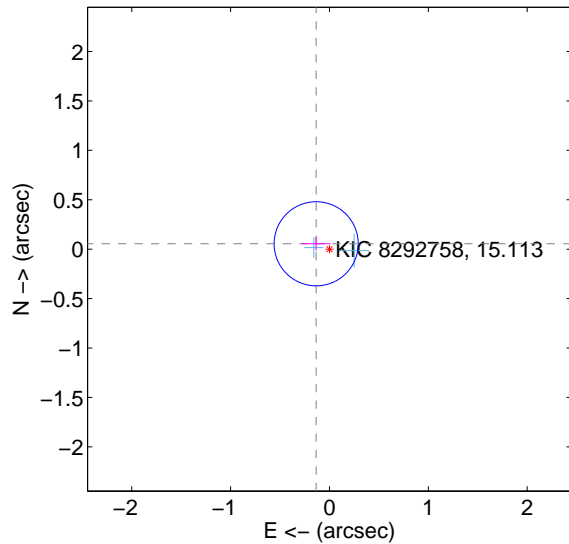
Supplemental centroid analysis for 008292758-04. Kepler magnitude: 15.11. Transit SNR 8.26

There are 3 quarters with good PRF difference image offsets

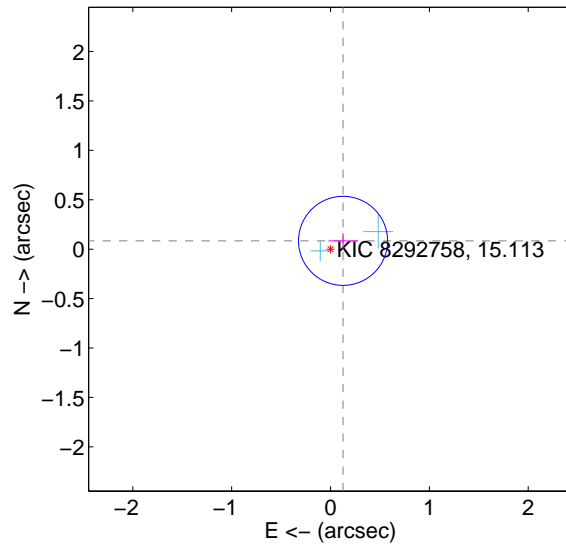
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.145 ± 0.142	1.02	0.134 ± 0.145	0.055 ± 0.069
PRF-fit source offset from KIC position	0.152 ± 0.150	1.01	-0.127 ± 0.149	0.084 ± 0.079
photometric centroid source offset	0.99 ± 0.35	2.84	0.98 ± 0.35	0.13 ± 0.29

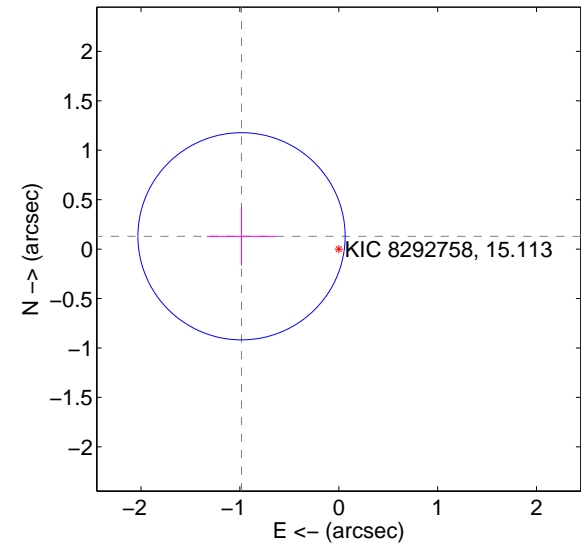
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

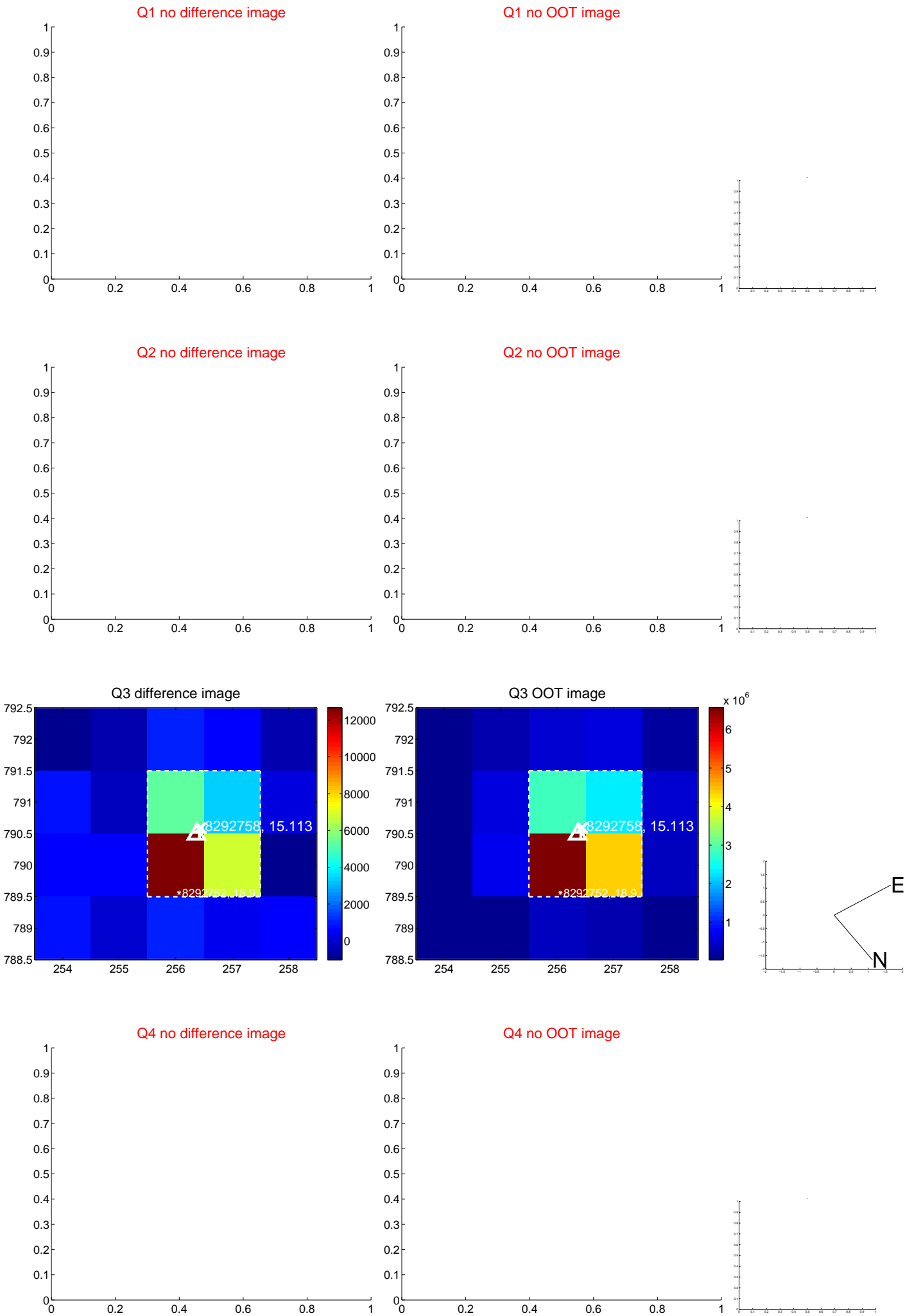


offset from photometric centroids

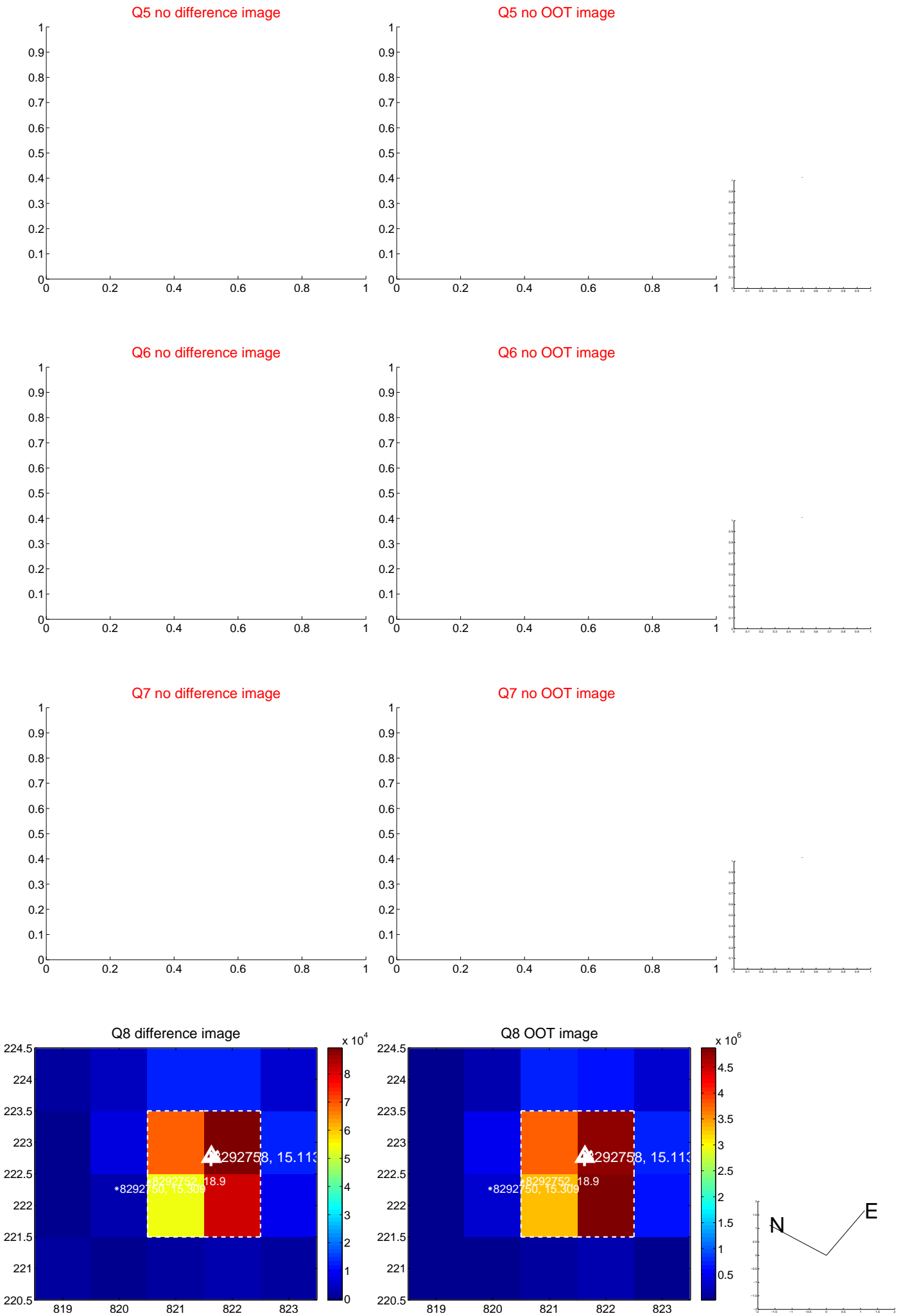


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

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



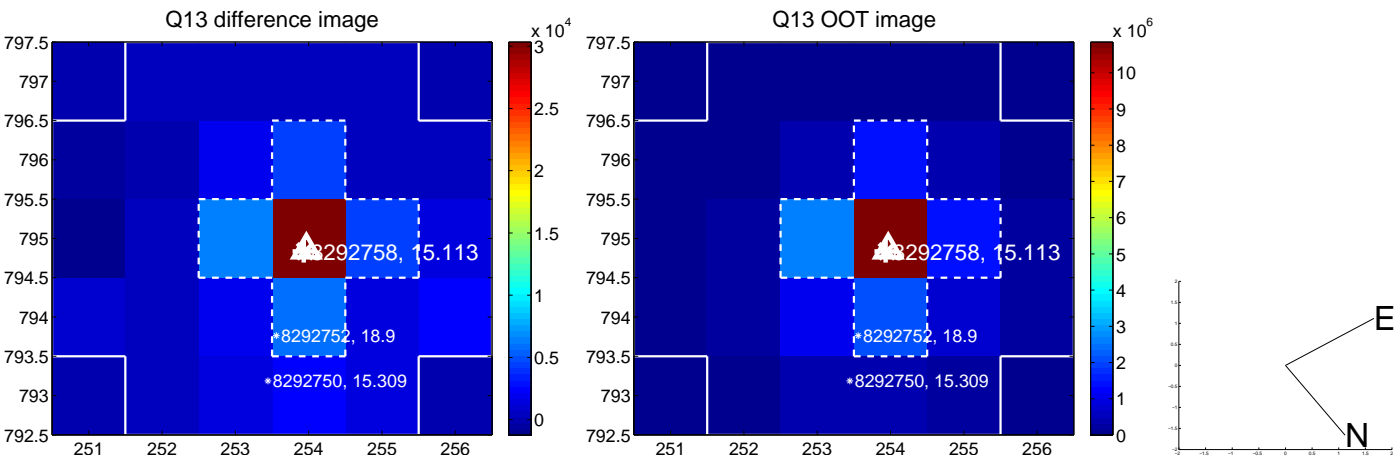
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



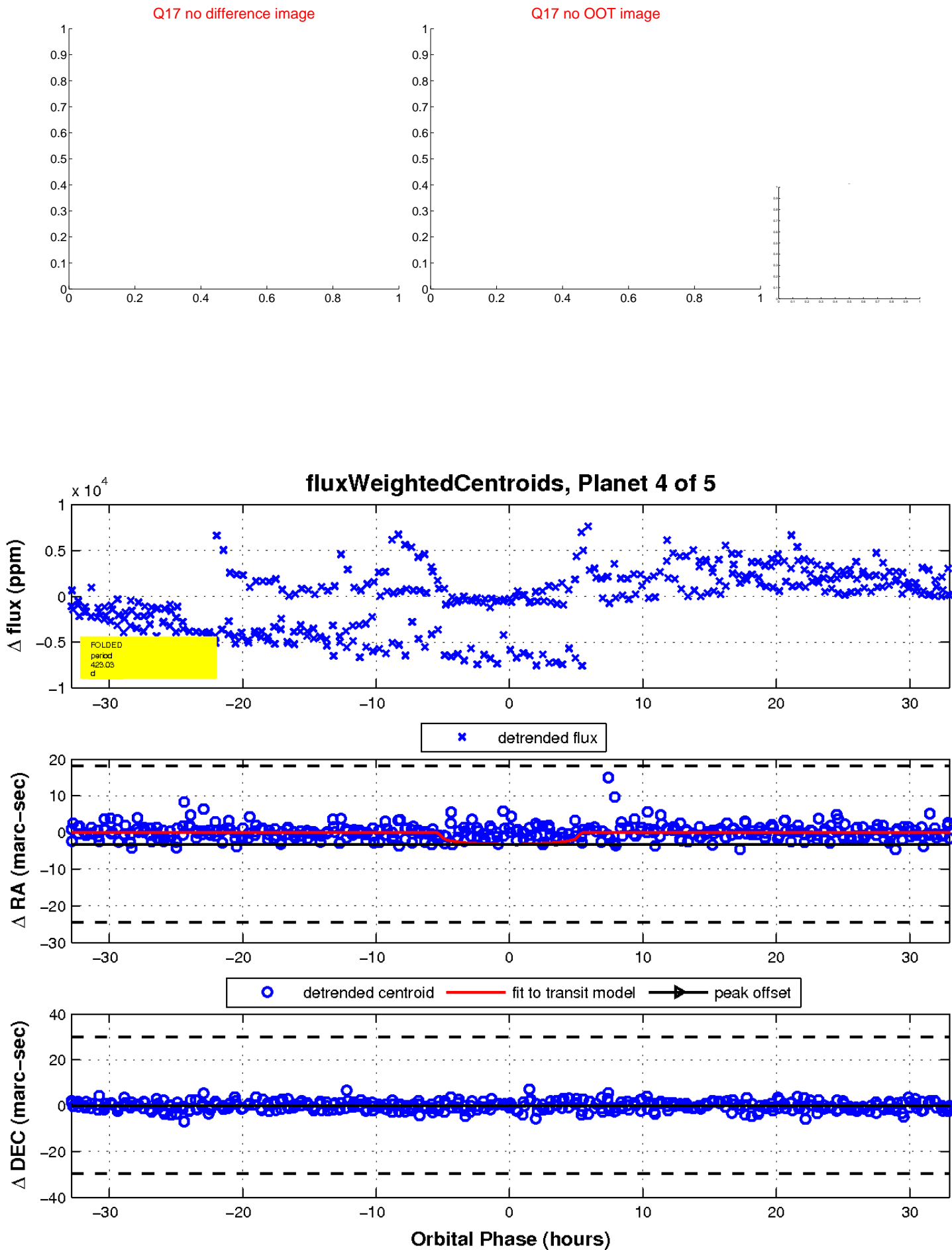
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

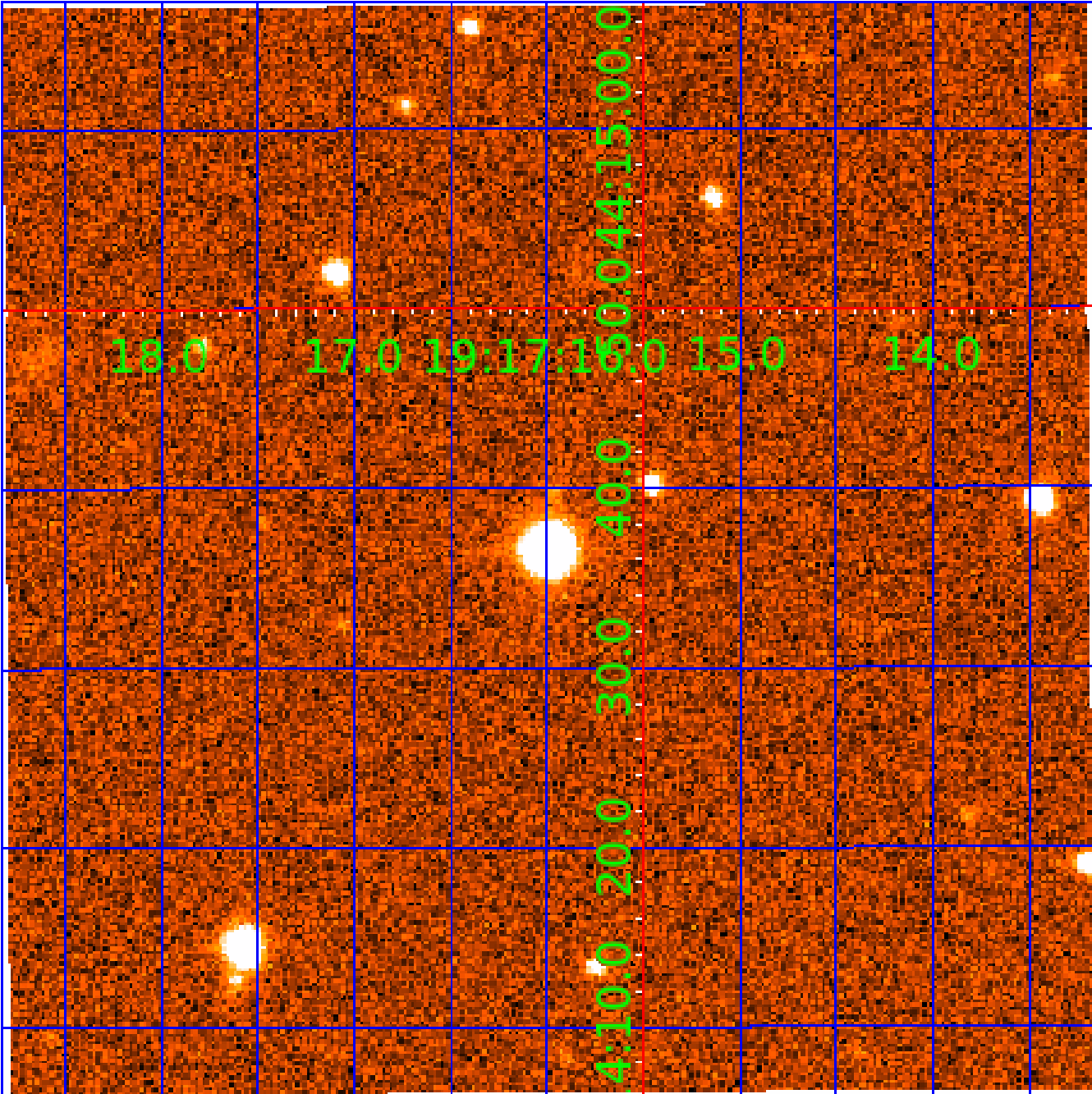


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008292758

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})
008292758-01	OBS	No	505.450043	454.773442	2255.1	4.132	15.2	8.2	0.59	3982	2.84	0.07
008292758-02	OBS	No	445.859272	307.011981	1570.2	15.607	11.8	4.7	0.59	3982	2.34	0.09
008292758-03	OBS	No	315.735889	421.506944	1636.6	3.803	11.6	6.8	0.59	3982	2.36	0.14
008292758-04	OBS	No	423.034398	344.754944	2671.7	11.052	13.5	8.3	0.59	3982	3.06	0.09
008292758-05	OBS	No	666.525391	234.991627	2325.9	6.343	14.4	8.2	0.59	3982	2.78	0.05

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008292758-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008292758-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
008292758-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008292758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_ALT—INCONSISTENT_TRANS
008292758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

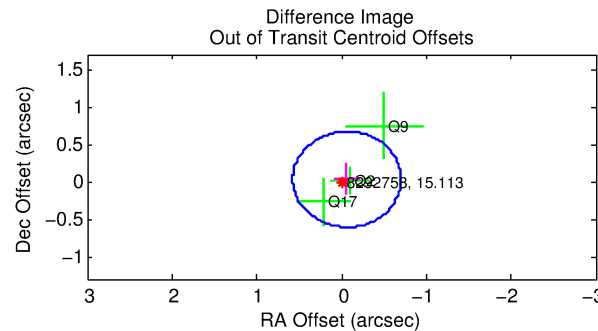
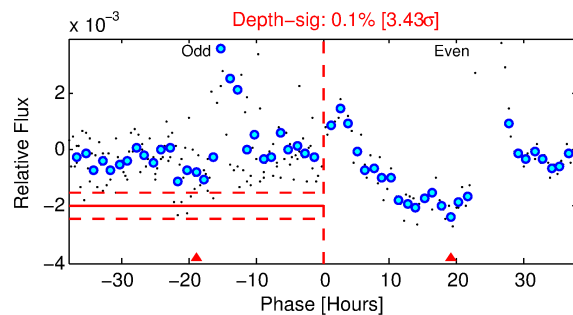
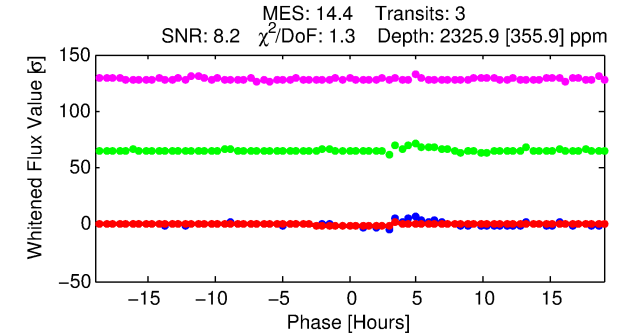
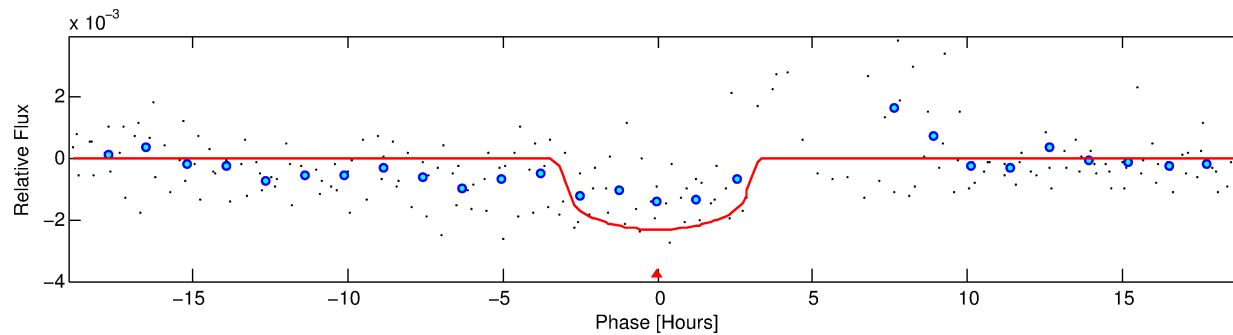
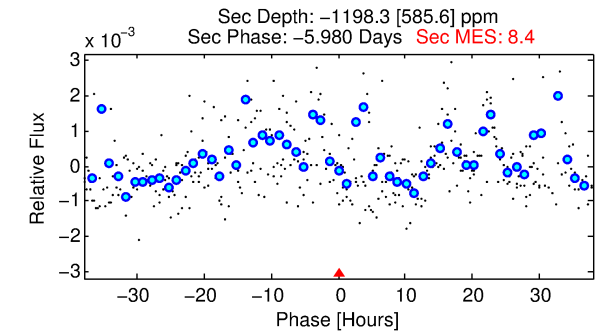
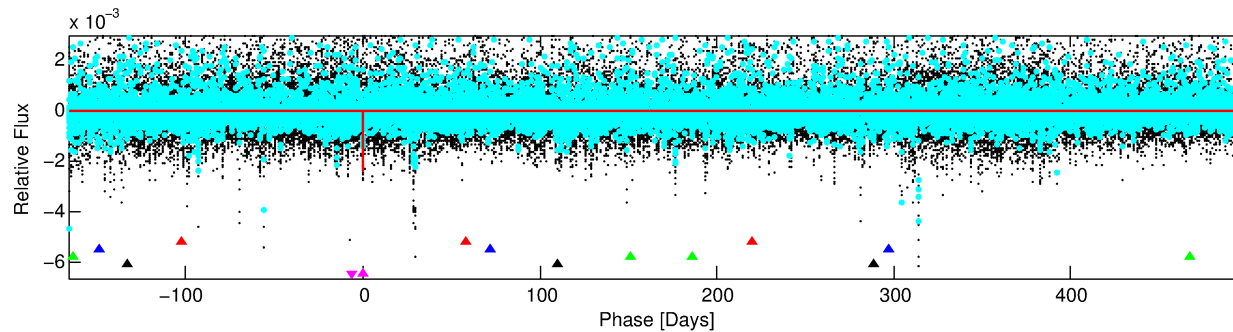
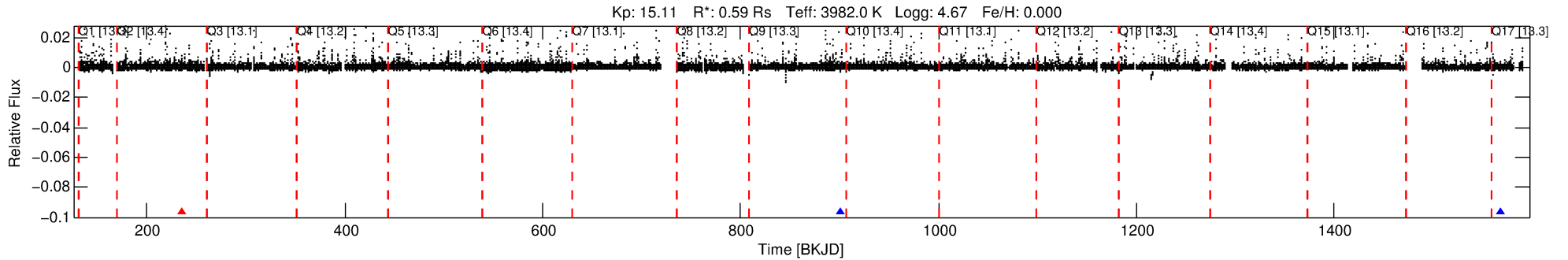
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008292758-05

No Significant Match Found

DV One-Page Summary

KIC: 8292758 Candidate: 5 of 5 Period: 666.525 d



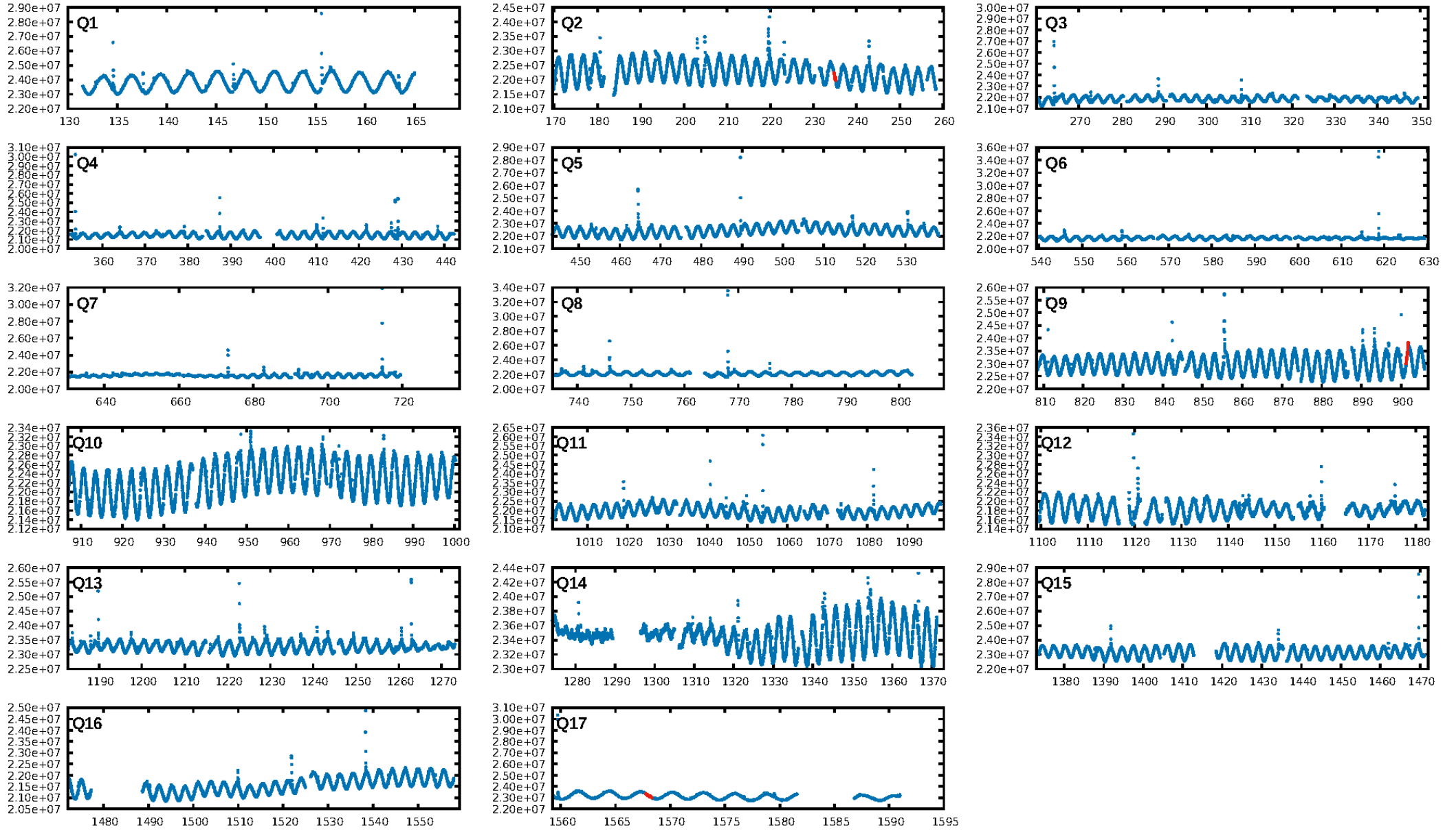
DV Fit Results:

Period = 666.52539 [0.00747] d
Epoch = 234.9916 [0.0109] BKJD
Rp/R* = 0.0435 [0.0332]
a/R* = 809.93 [2190.03]
b = 0.27 [9.56]
Seff = 0.05 [0.01]
Teq = 120 [3] K
Rp = 2.78 [2.13] Re
a = 1.2483 [0.0571] AU
Ag = N/A
Teffp = N/A

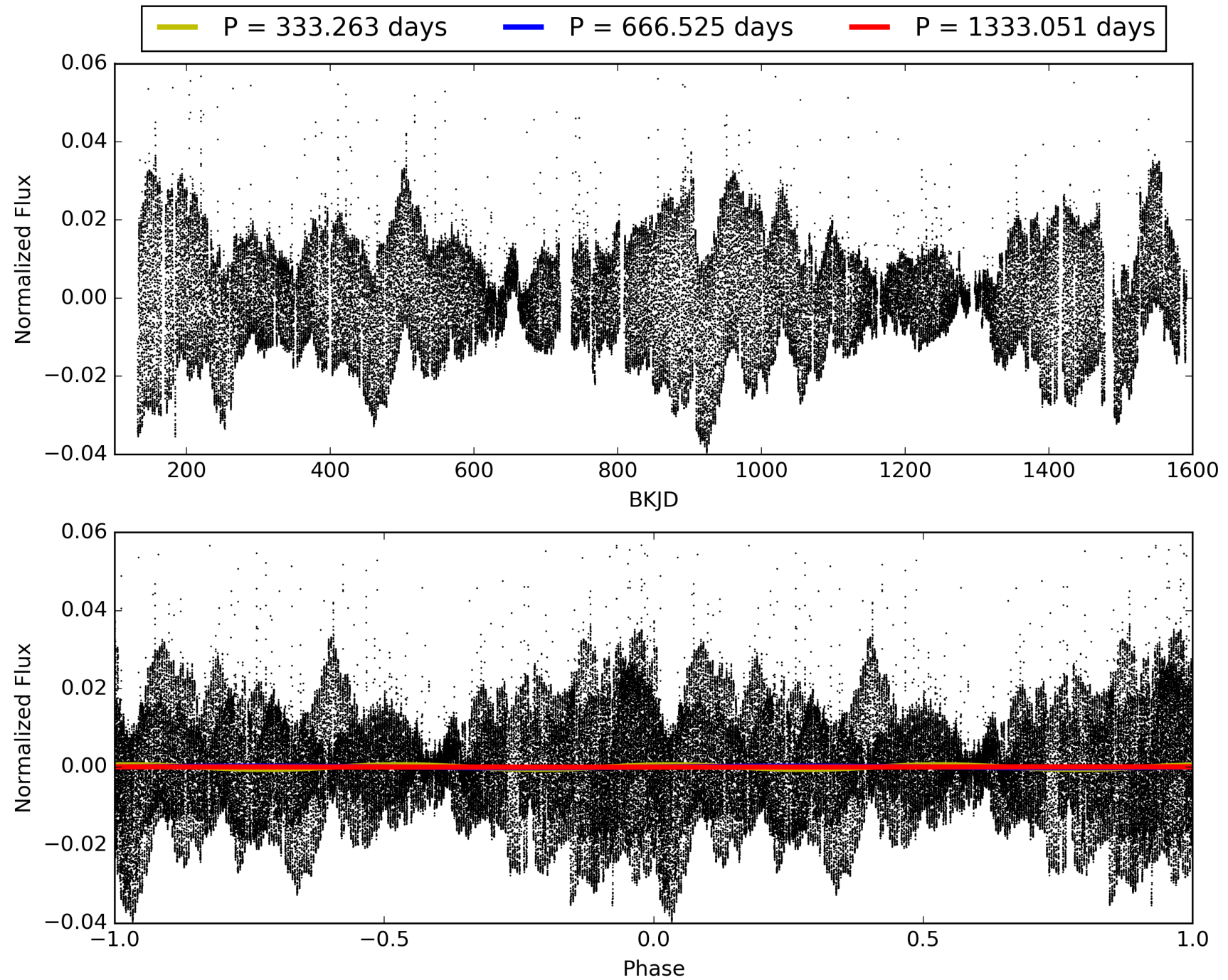
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [510.65σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 28.1%
ModelChiSquareGof-sig: 75.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 0.50 [1/2]
GhostDiagnostic-chr: 1.735
Centroid-sig: 30.9%
Centroid-so: 0.351 arcsec [0.71σ]
OotOffset-rm: 0.069 arcsec [0.33σ]
KicOffset-rm: 0.186 arcsec [0.56σ]
OotOffset-st: 1/0/0/2 [3]
KicOffset-st: 1/0/0/2 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 008292758-05, PDC Light Curves

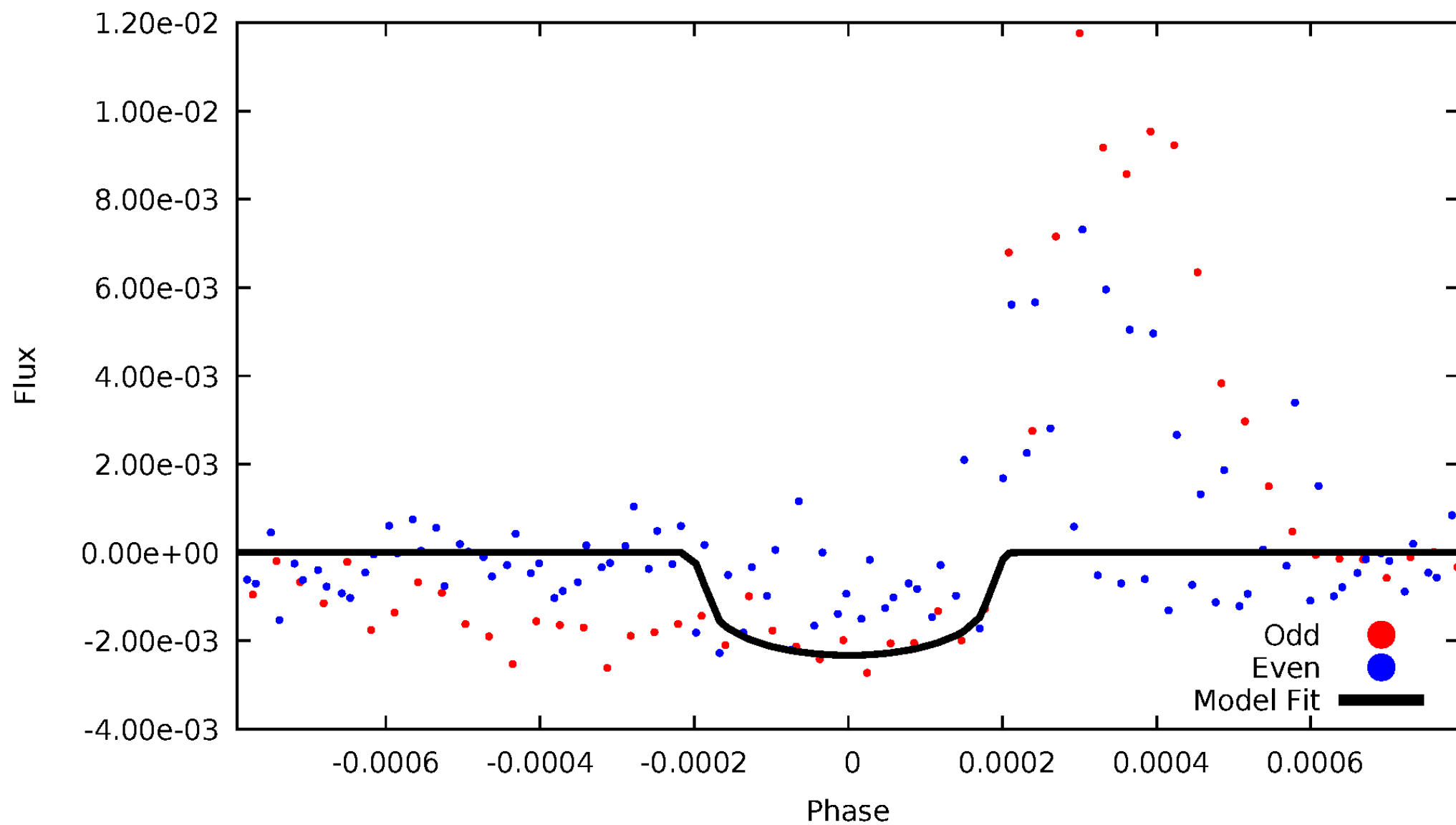


TCE 008292758-05



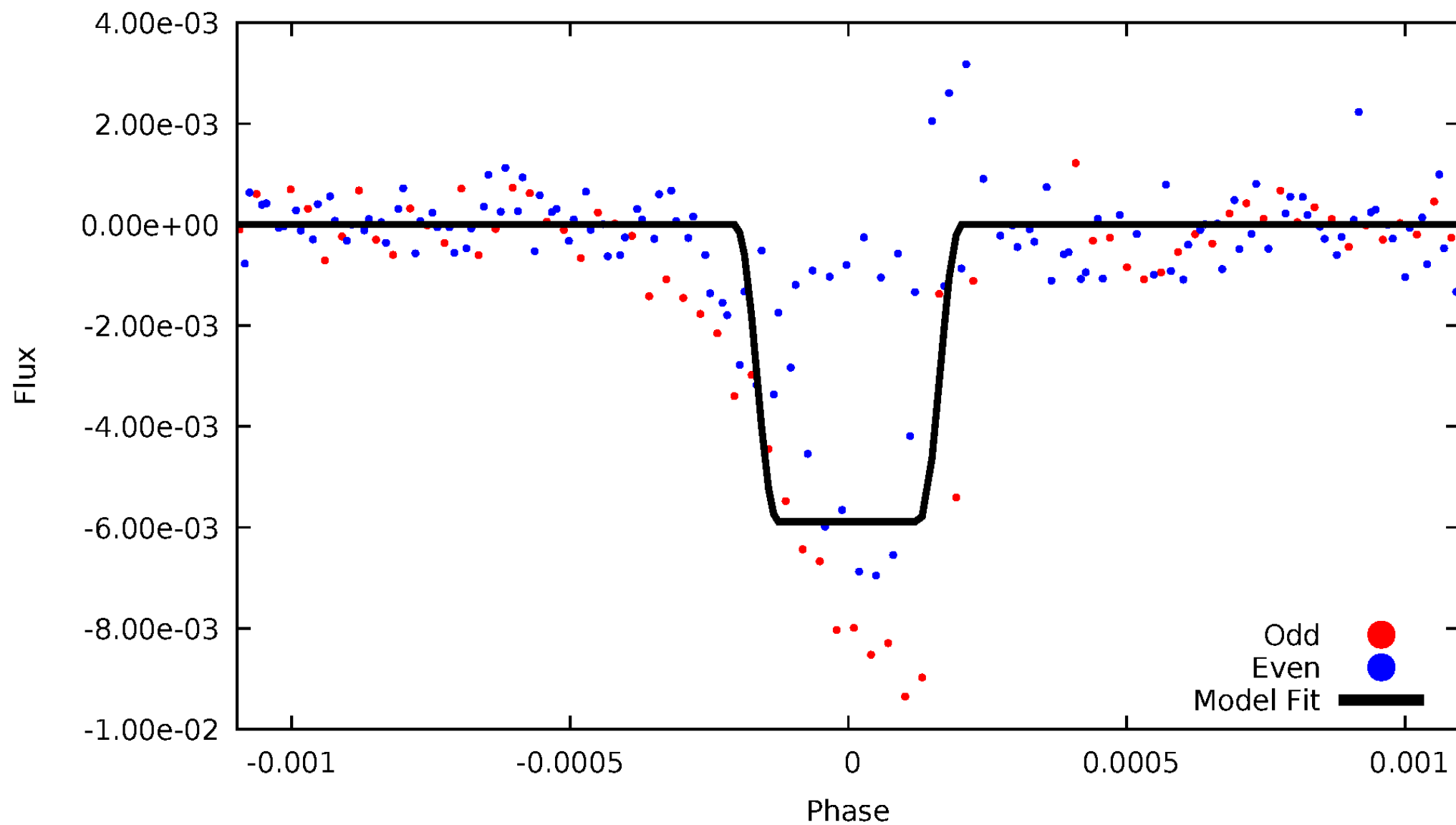
DV Odd/Even

TCE 008292758-05



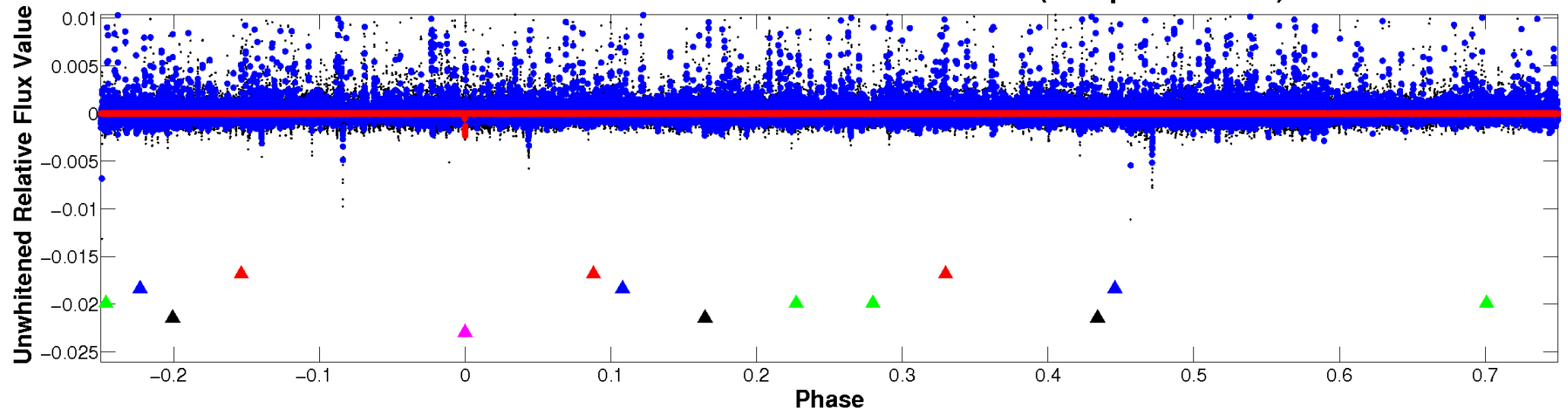
ALT Odd/Even

TCE 008292758-05

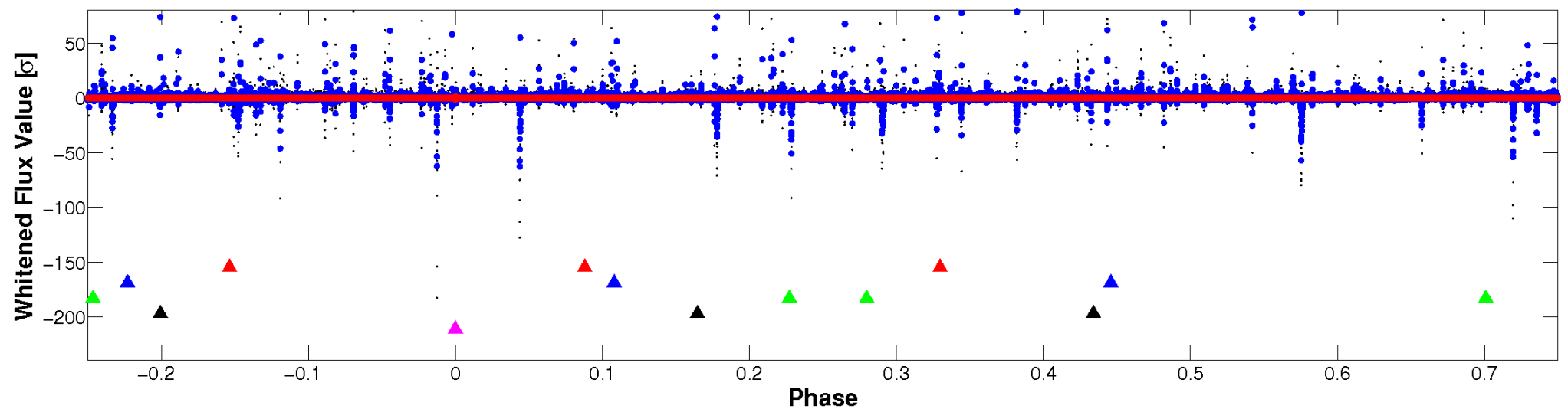


Non-Whitened Vs. Whitened Light Curve

Planet 5 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

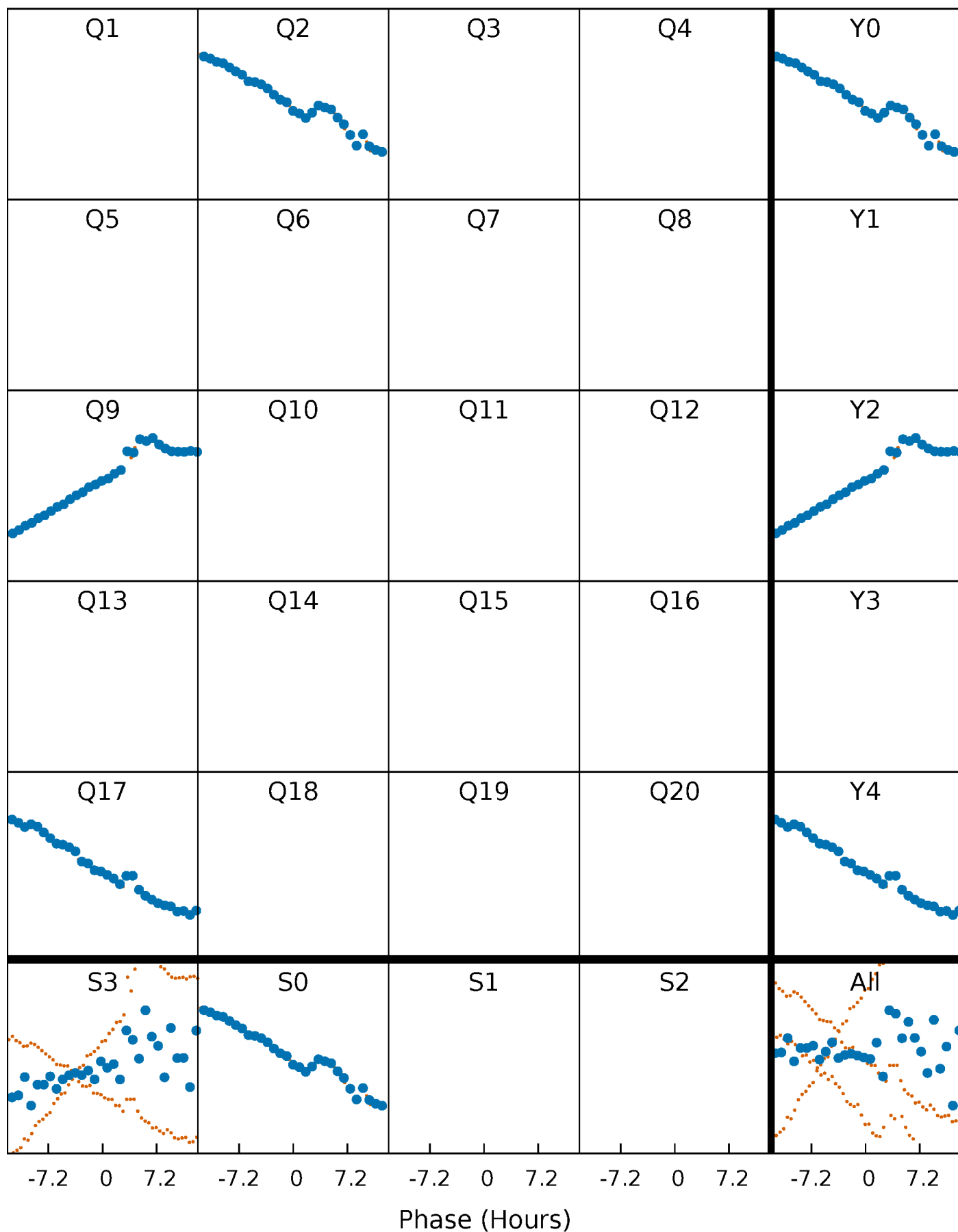


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



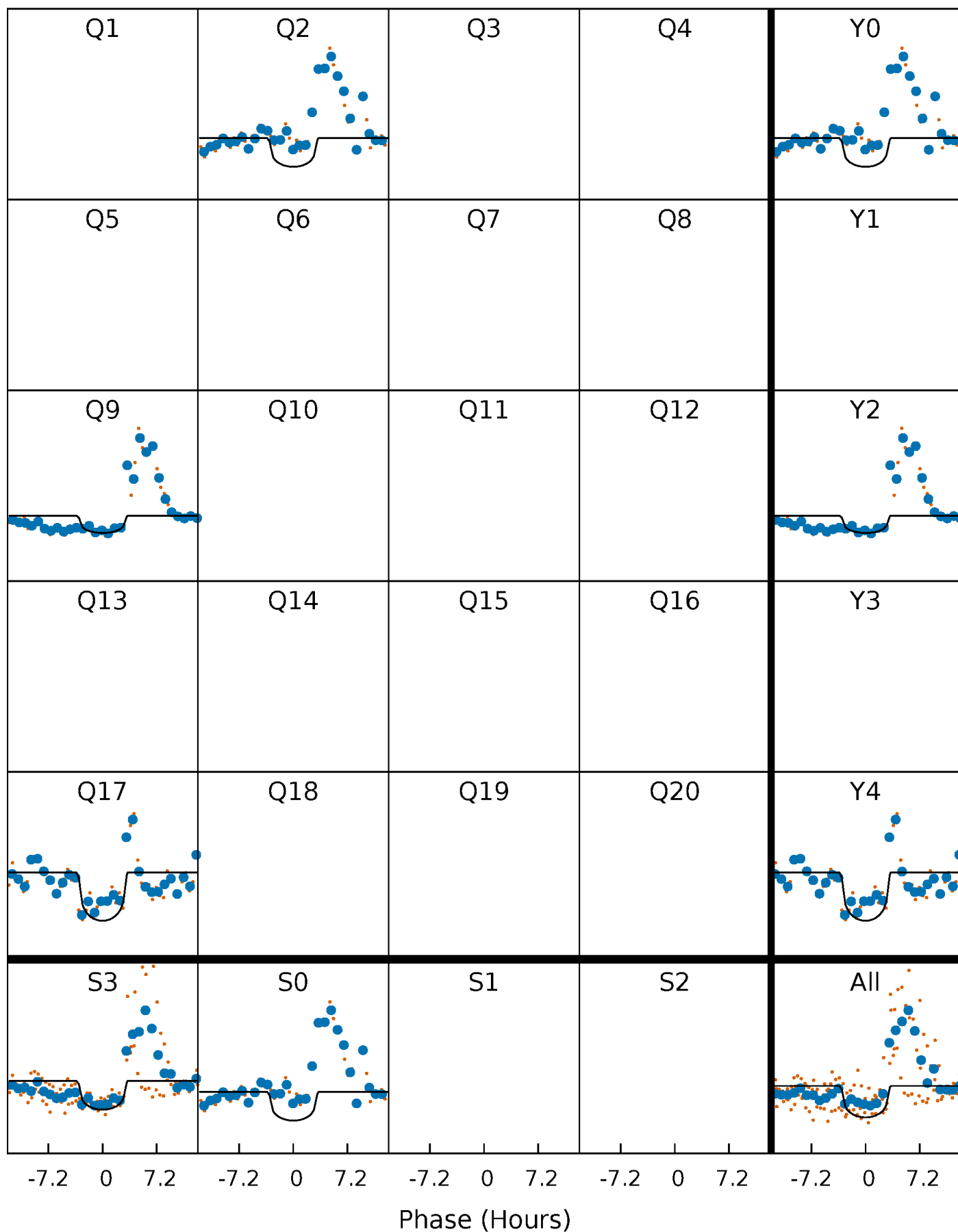
PDC Quarter-Phased Transit Curves

TCE 008292758-05 P=666.525391 Days $T_0=234.991627$ (BKJD)



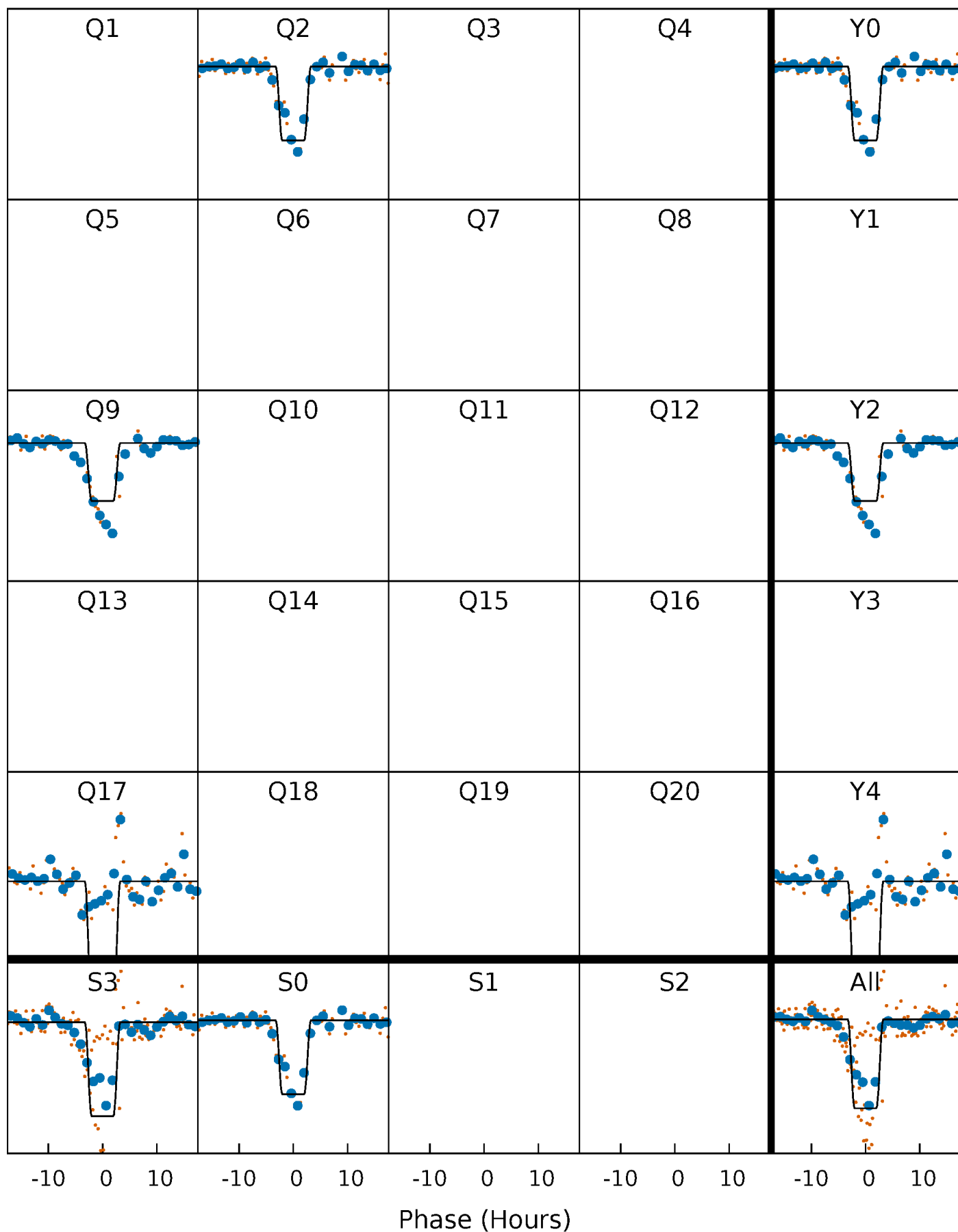
DV Quarter-Phased Transit Curves

TCE 008292758-05 $P=666.525391$ Days $T_0=234.991627$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

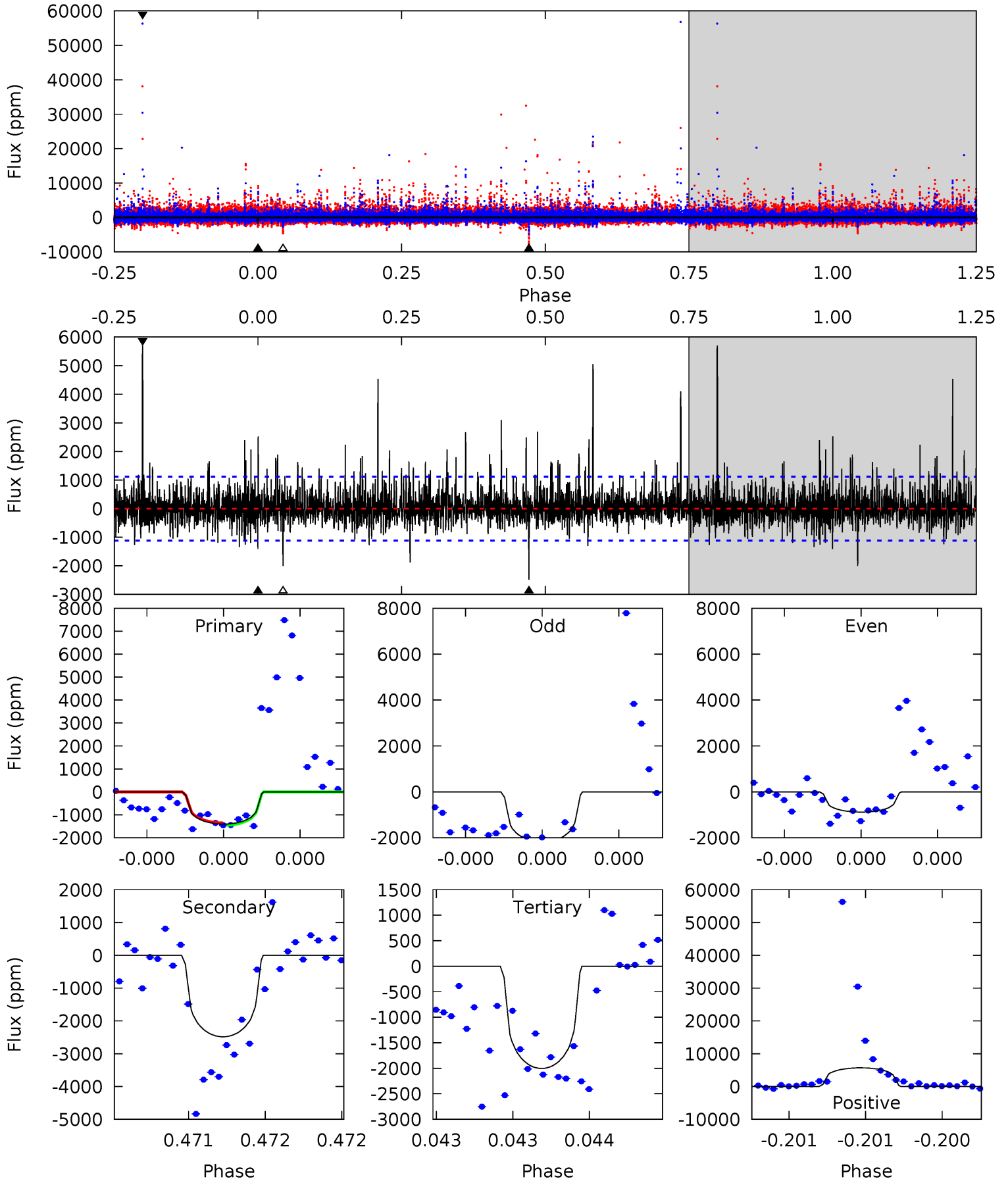
TCE 008292758-05 $P=666.529105$ Days $T_0=235.017847$ (BKJD)



DV Model-Shift Uniqueness Test

008292758-05, P = 666.525391 Days, E = 234.991627 Days

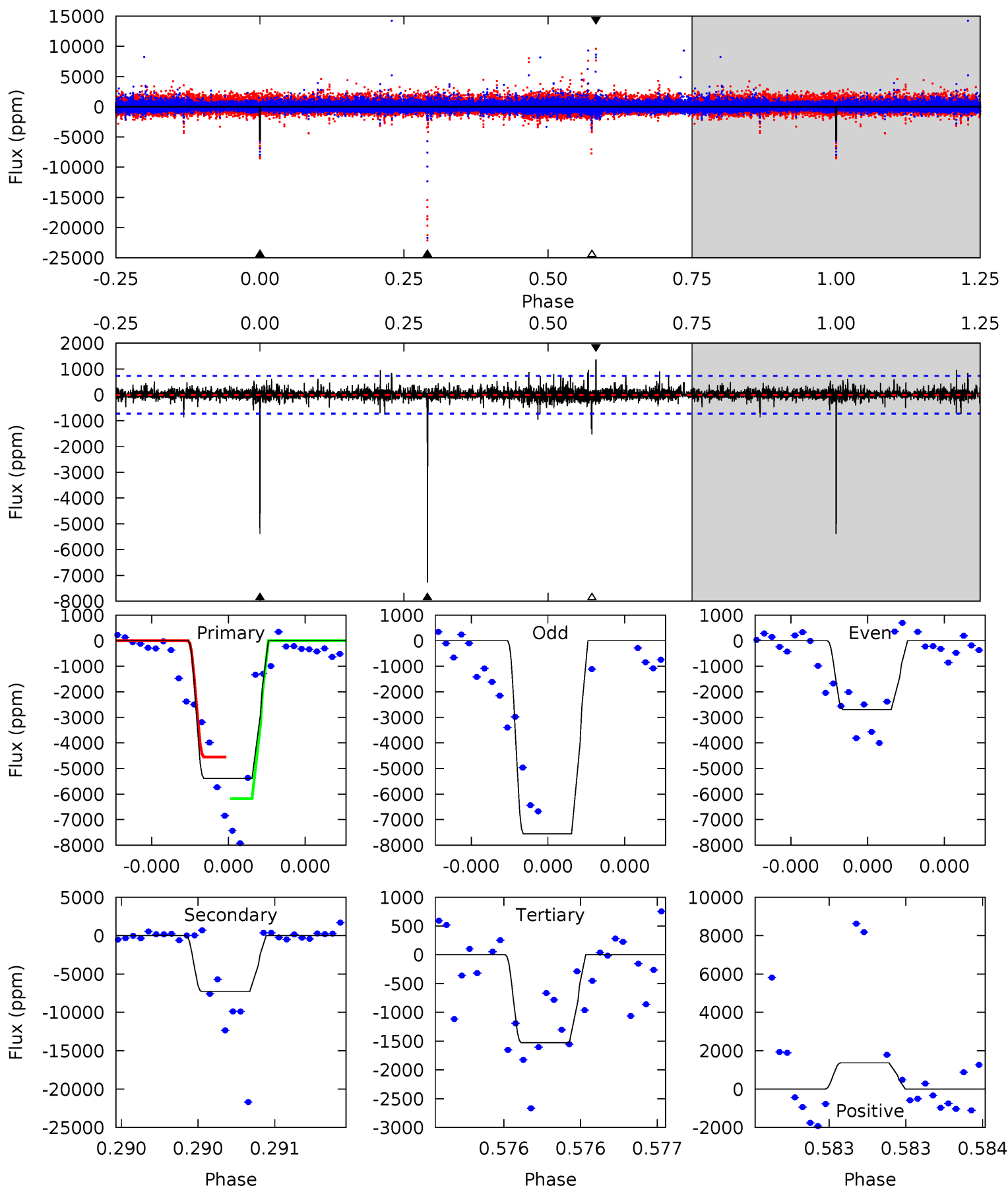
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.03	12.4	10.0	28.5	5.61	3.54	2.38	-3.00	-21.5	2.41	-16.1	0.81	0.79	0.70	0.27



Alt Model-Shift Uniqueness Test

008292758-05, P = 666.529105 Days, E = 235.017847 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
41.3	55.8	11.7	10.5	5.62	3.55	1.05	29.6	30.8	44.1	45.3	18.4	0.85	0.16	0



Stellar Parameters For KIC 008292758

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	3982^{+87}_{-87}	$4.667^{+0.038}_{-0.013}$	$0.000^{+0.100}_{-0.100}$	$0.587^{+0.020}_{-0.031}$	$0.584^{+0.030}_{-0.027}$	$4.064^{+0.585}_{-0.245}$
	+2%/-2%	+1%/-0%	+inf%/-inf%	+3%/-5%	+5%/-5%	+14%/-6%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 008292758-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-2485 ± 200	$2.89^{+2.13}_{-1.66}$	167^{+4}_{-4}	4099^{+1765}_{-674}	$256609^{+1221830}_{-171862}$
Alt.	-7274 ± 130	$4.88^{+2.01}_{-1.96}$	167^{+4}_{-4}	4140^{+976}_{-479}	$265132^{+483015}_{-130822}$

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 $A_{obs} \gg 1.0$

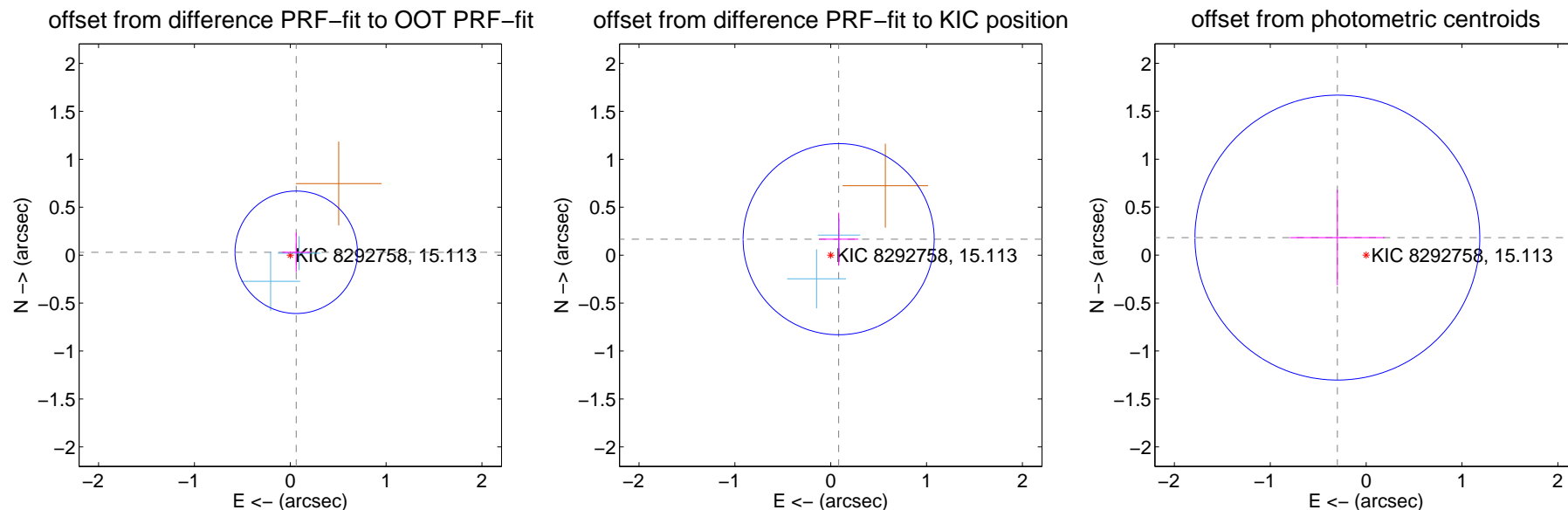
DV Centroid Data

Supplemental centroid analysis for 008292758-05. Kepler magnitude: 15.11. Transit SNR 8.15

There are 2 quarters with good PRF difference image offsets

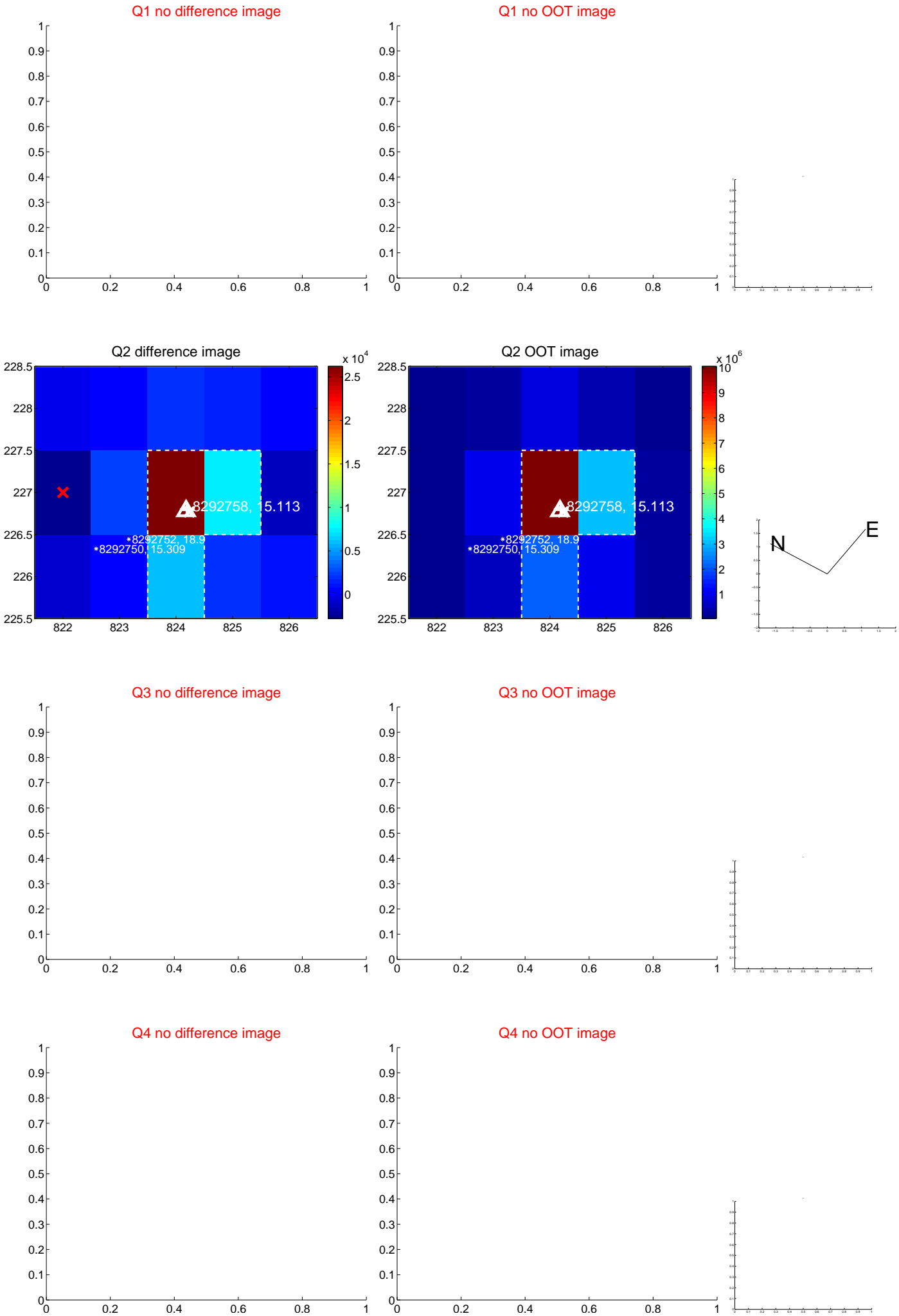
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.069 ± 0.213	0.33	-0.062 ± 0.148	0.030 ± 0.205
PRF-fit source offset from KIC position	0.186 ± 0.332	0.56	-0.083 ± 0.205	0.167 ± 0.276
photometric centroid source offset	0.35 ± 0.50	0.71	0.30 ± 0.49	0.18 ± 0.50



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.

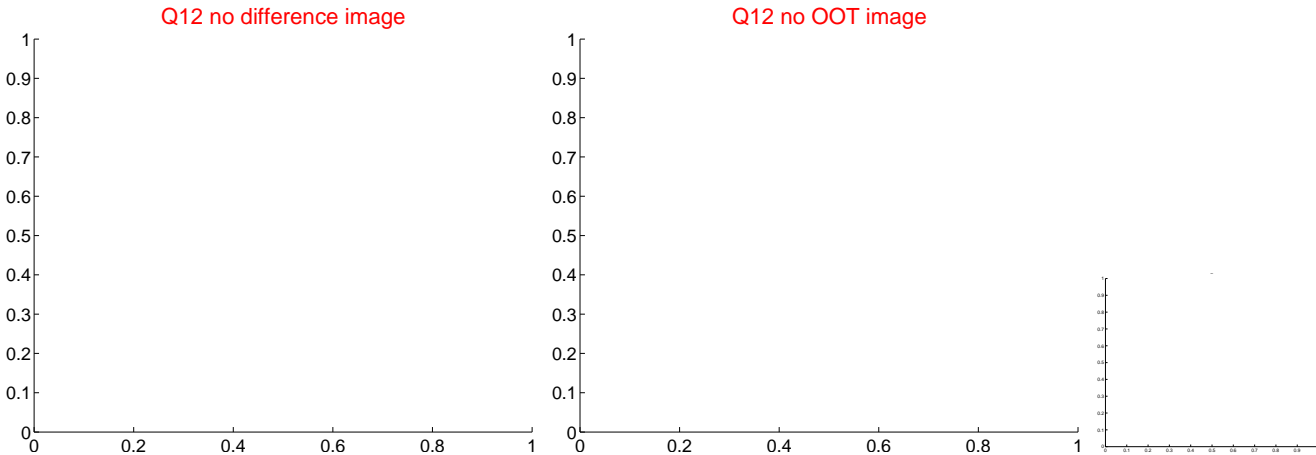
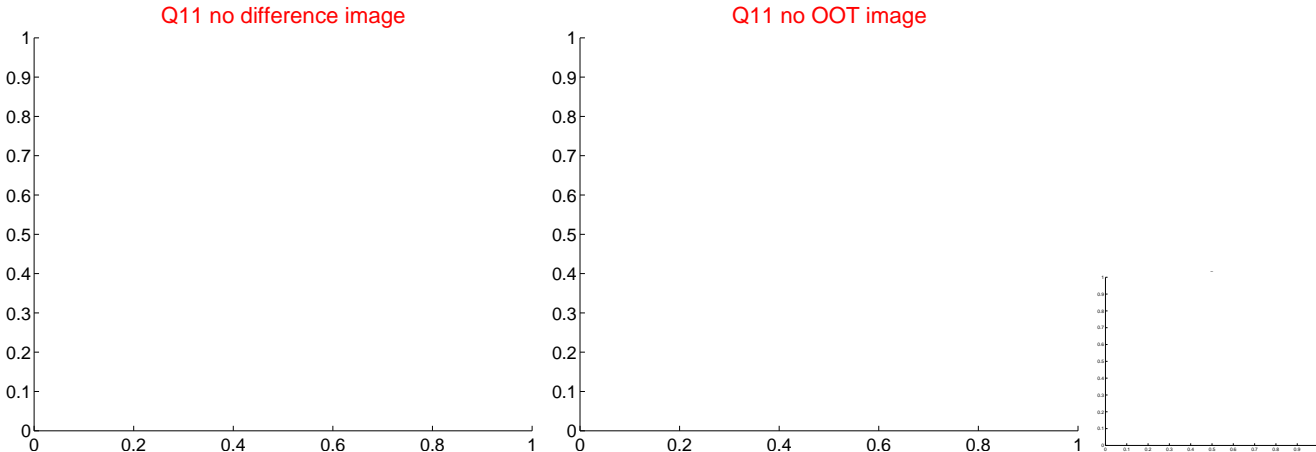
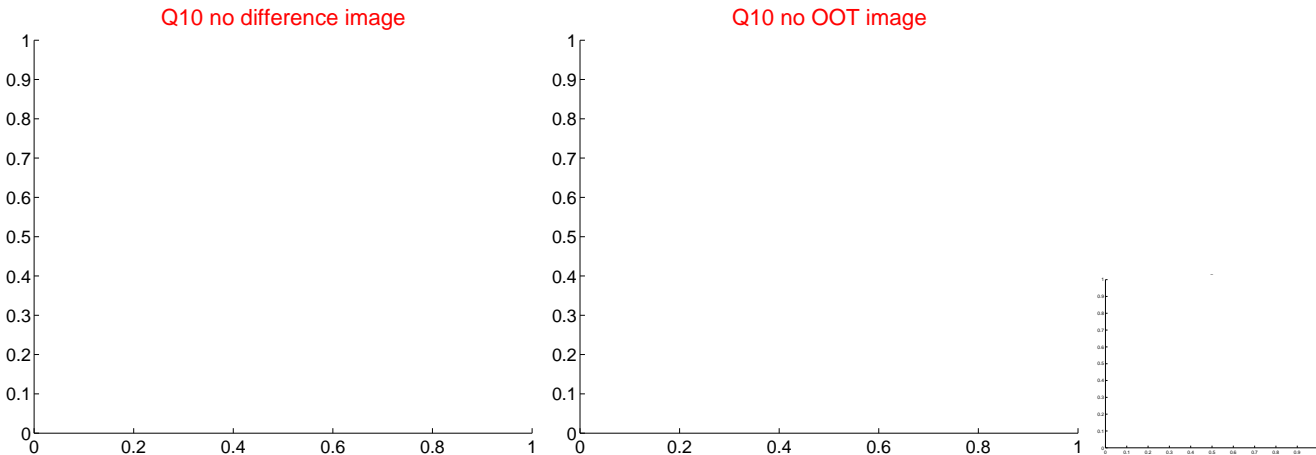
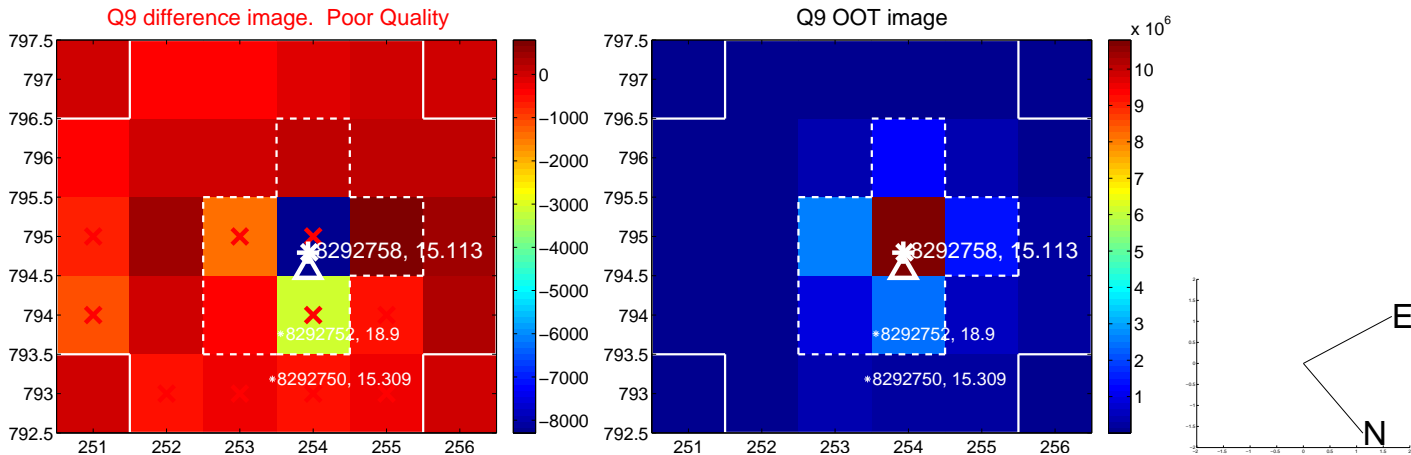
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



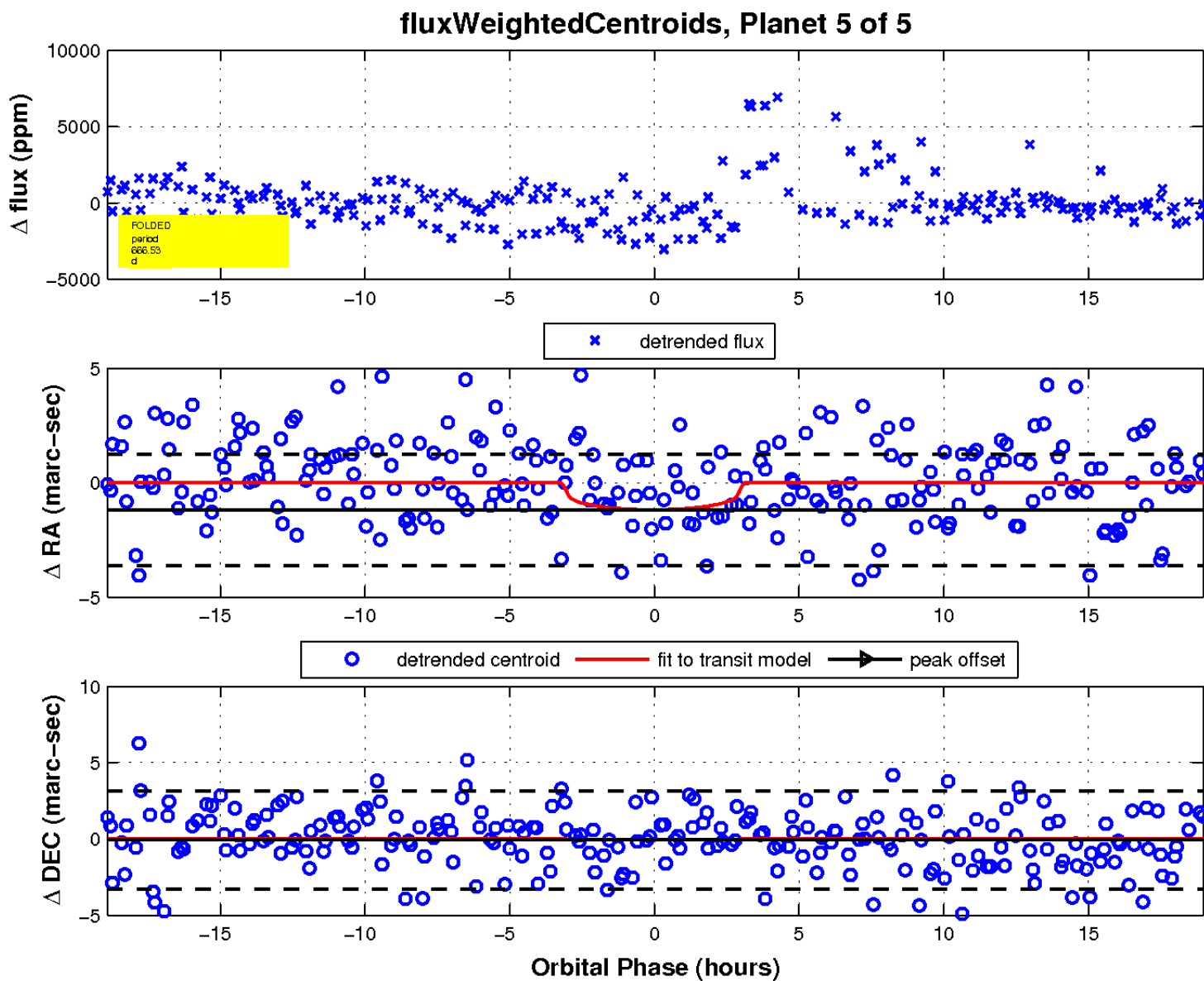
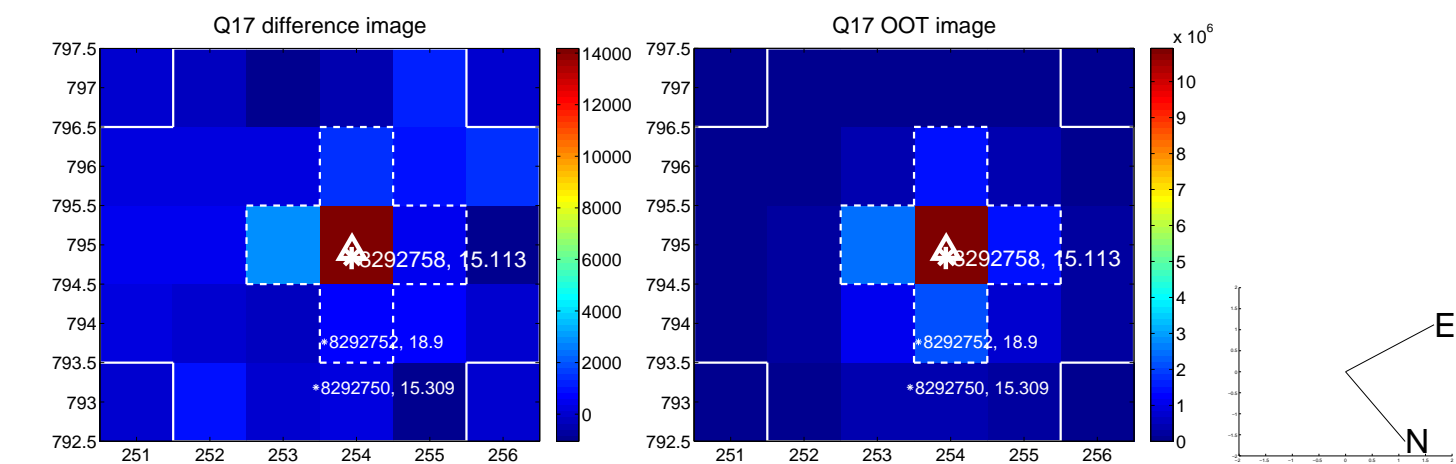
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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



UKIRT Image

Declination

