

KIC 004850763

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})
004850763-01	OBS	No	0.649011	132.048393	43.8	4.450	7.8	7.1	1.00	6077	0.66	5391.28
004850763-02	OBS	No	18.342655	141.268667	507.0	3.197	9.0	7.7	1.00	6077	2.57	62.62
004850763-03	OBS	No	64.199604	157.748233	933.8	4.840	7.7	8.1	1.00	6077	3.31	11.79

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004850763-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_FEW_DIFFS
004850763-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
004850763-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

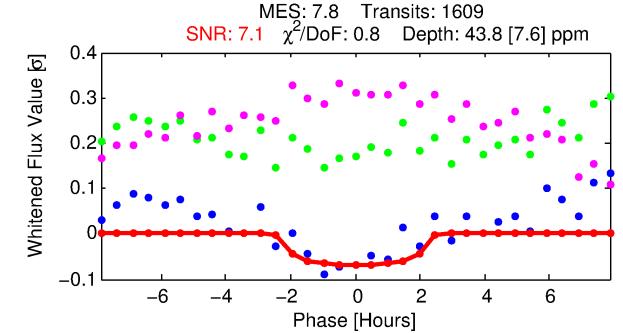
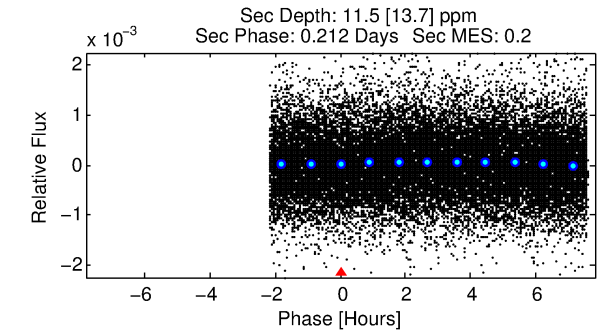
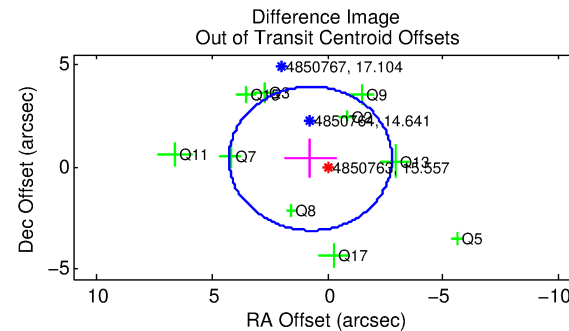
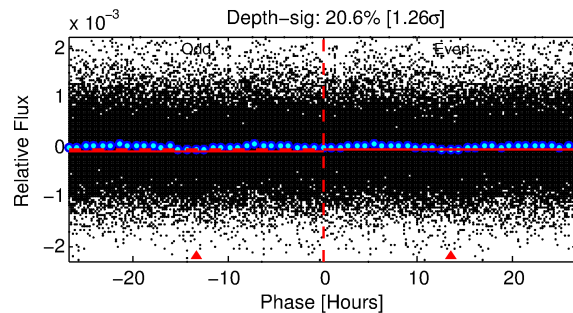
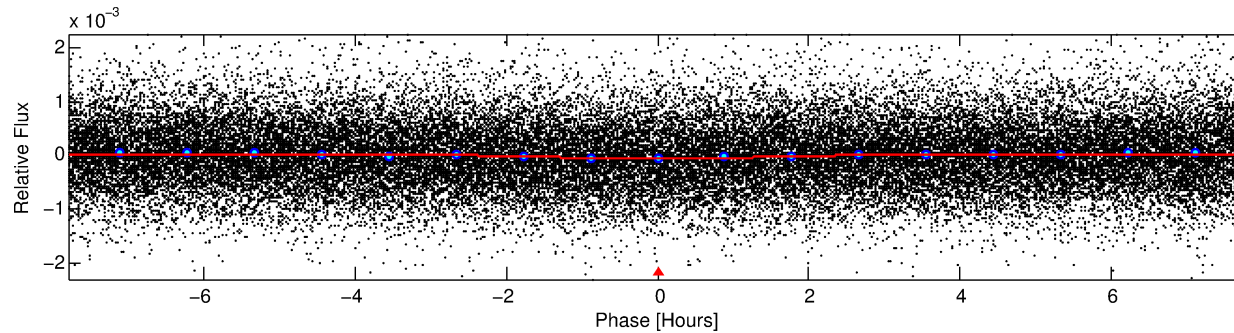
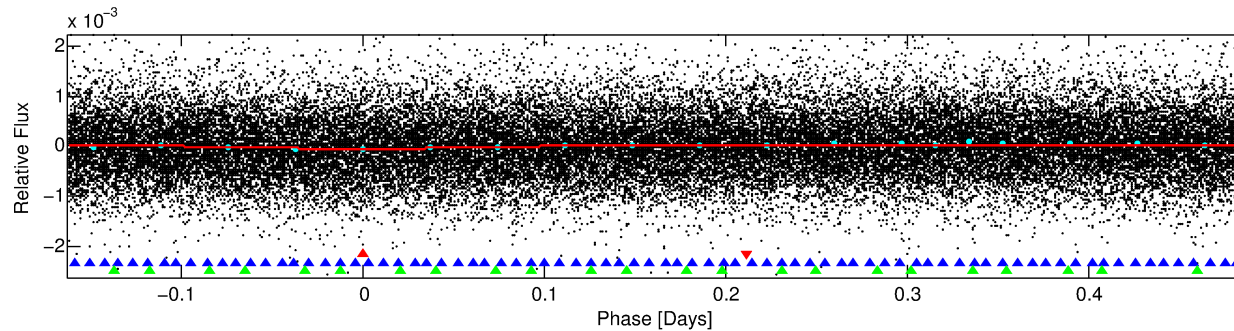
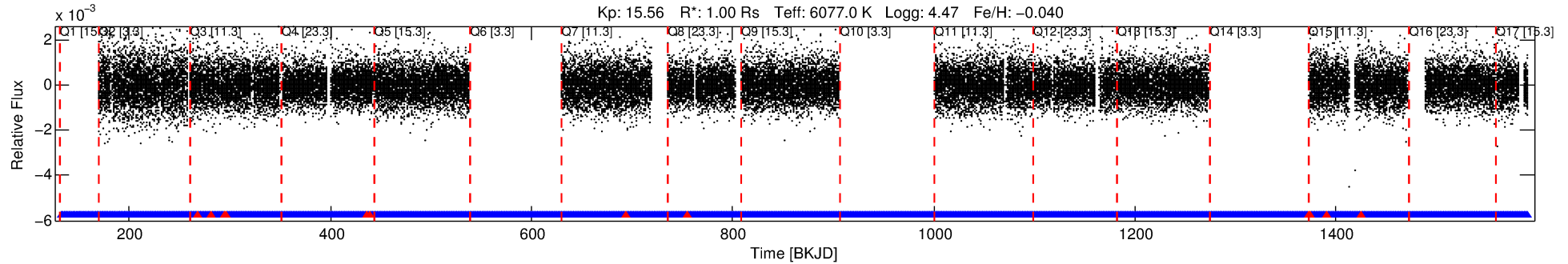
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004850763-01

No Significant Match Found

DV One-Page Summary

KIC: 4850763 Candidate: 1 of 3 Period: 0.649 d



DV Fit Results:

Period = 0.64901 [0.00002] d
Epoch = 132.0484 [0.0070] BKJD
Rp/R* = 0.0061 [0.0135]
a/R* = 1.29 [5.39]
b = 0.08 [128.33]
Seff = 5391.28 [1861.89]
Teq = 2185 [189] K
Rp = 0.66 [1.48] Re
a = 0.0150 [0.0032] AU
Ag = 3.30 [15.26] [0.15 σ]
Teffp = 4553 [5254] K [0.45 σ]

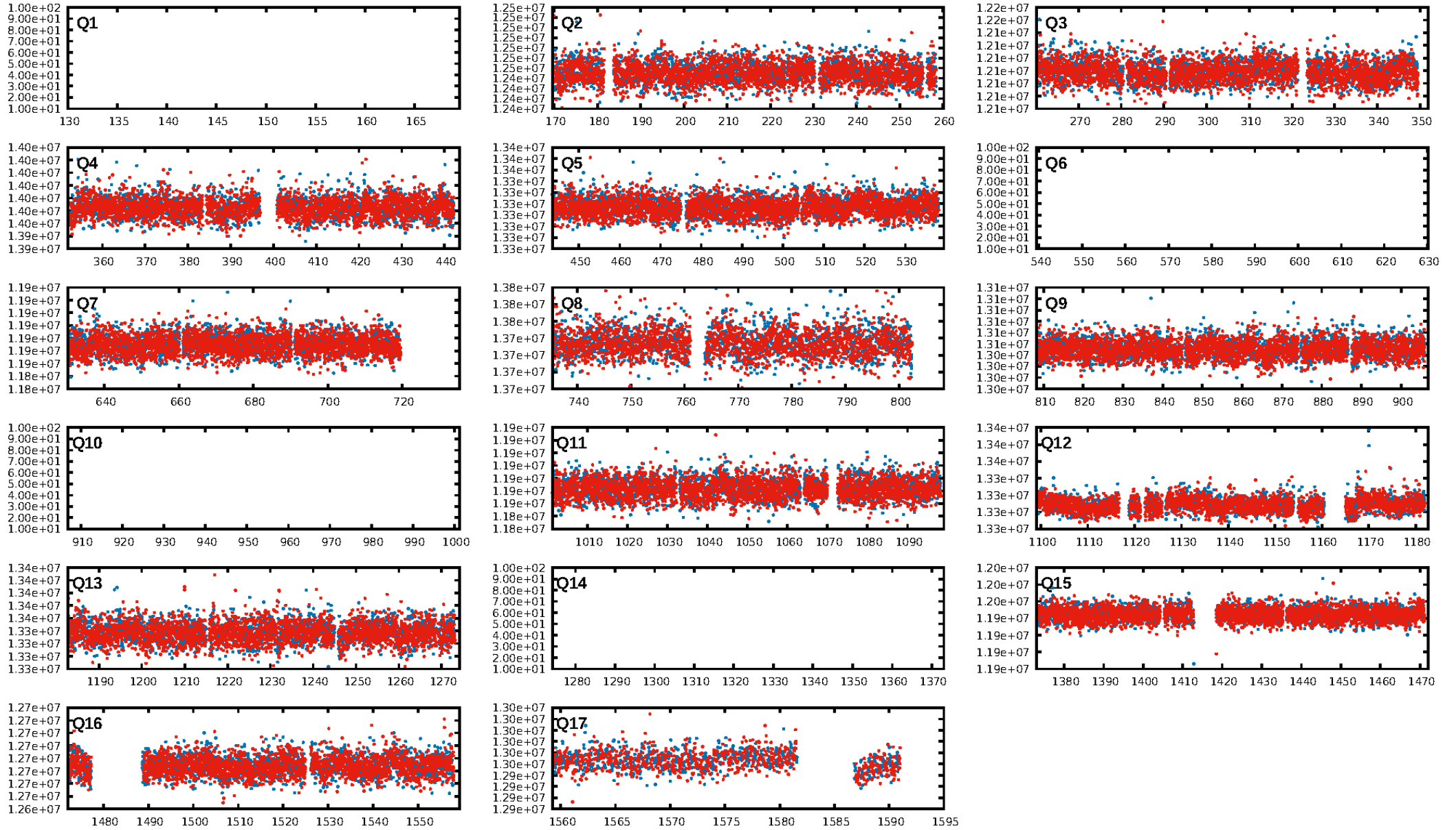
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [77.50 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 8.56e-09
RollingBand-fgt: 0.99 [1555/1567]
GhostDiagnostic-chr: 0.5071
Centroid-sig: 0.0%
Centroid-so: 4.866 arcsec [2.72 σ]
OotOffset-rm: 0.838 arcsec [0.71 σ]
KicOffset-rm: 1.499 arcsec [1.15 σ]
OotOffset-st: 1/4/1/4 [10]
KicOffset-st: 1/4/1/4 [10]
DiffImageQuality-fgm: 0.00 [0/10]
DiffImageOverlap-fno: 1.00 [13/13]

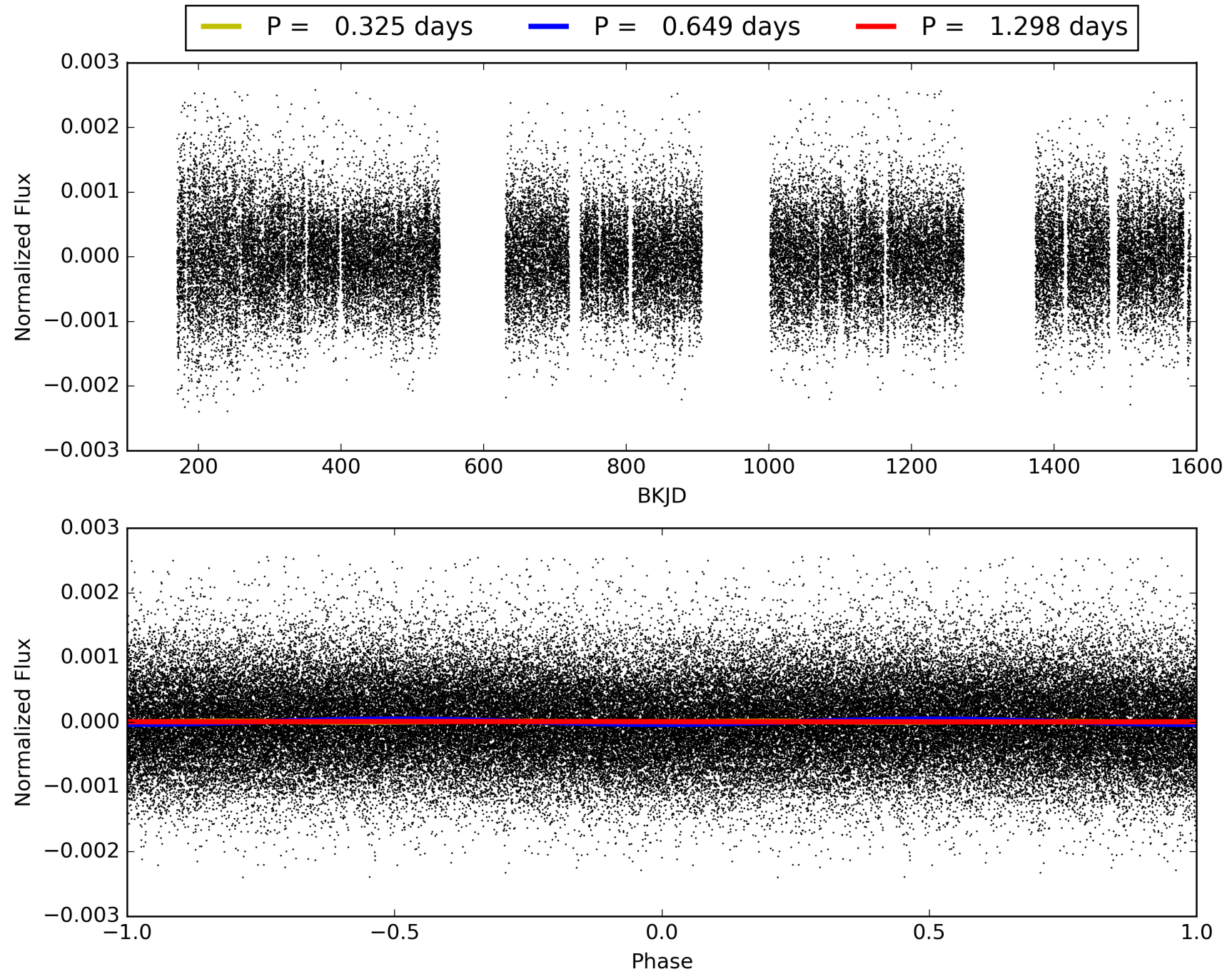
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 08:11:07 Z

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

TCE 004850763-01, PDC Light Curves

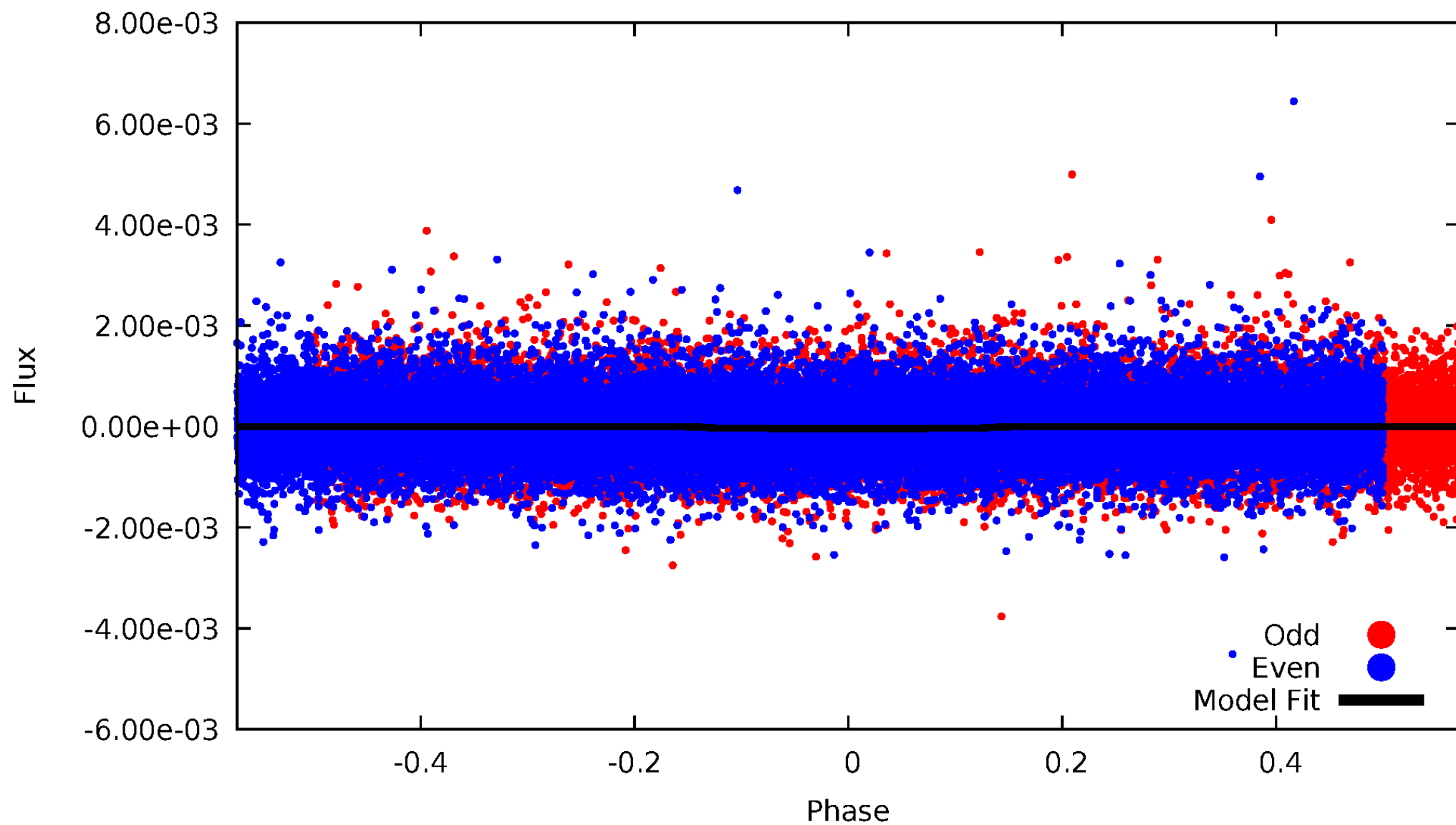


TCE 004850763-01



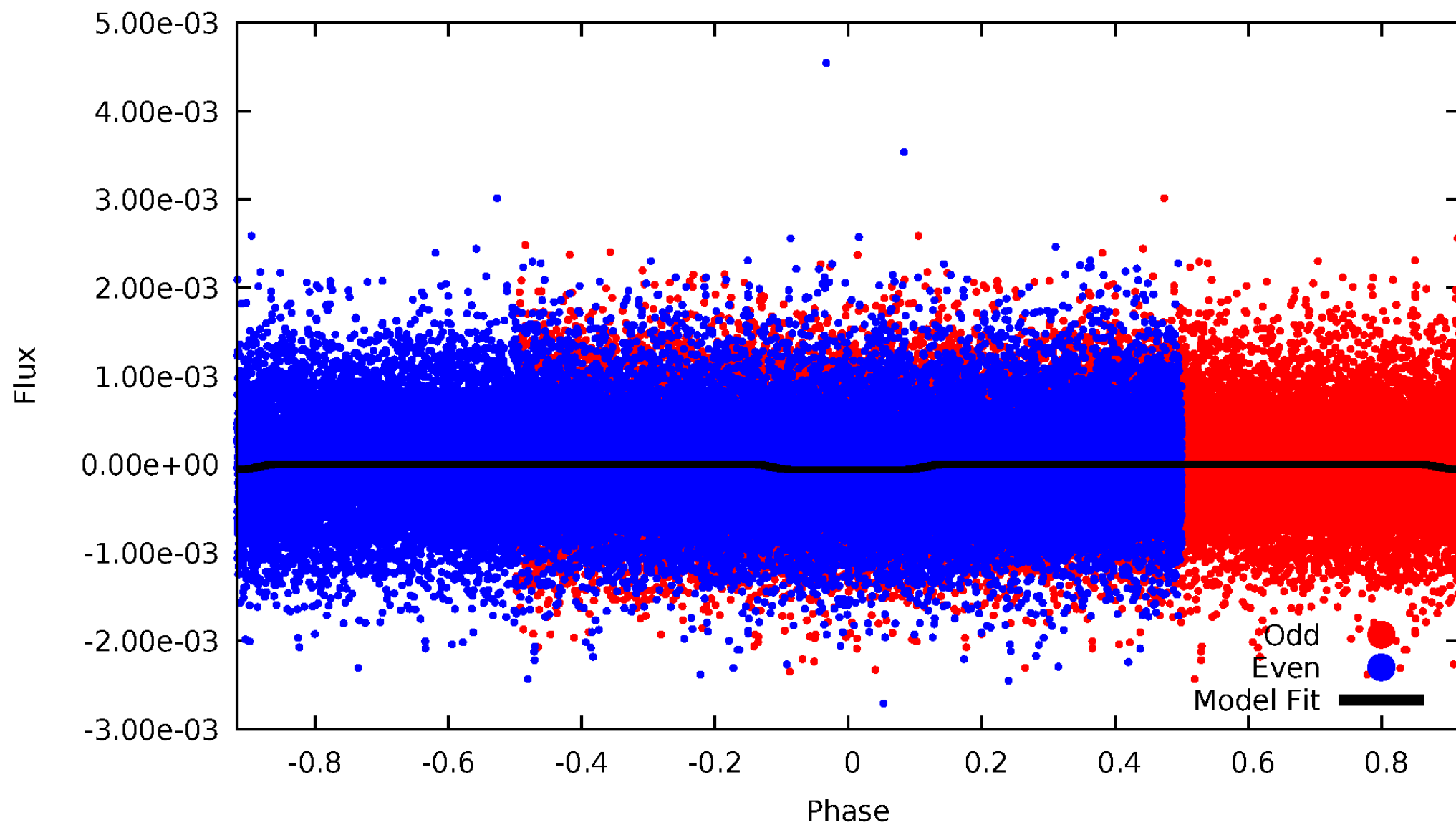
DV Odd/Even

TCE 004850763-01

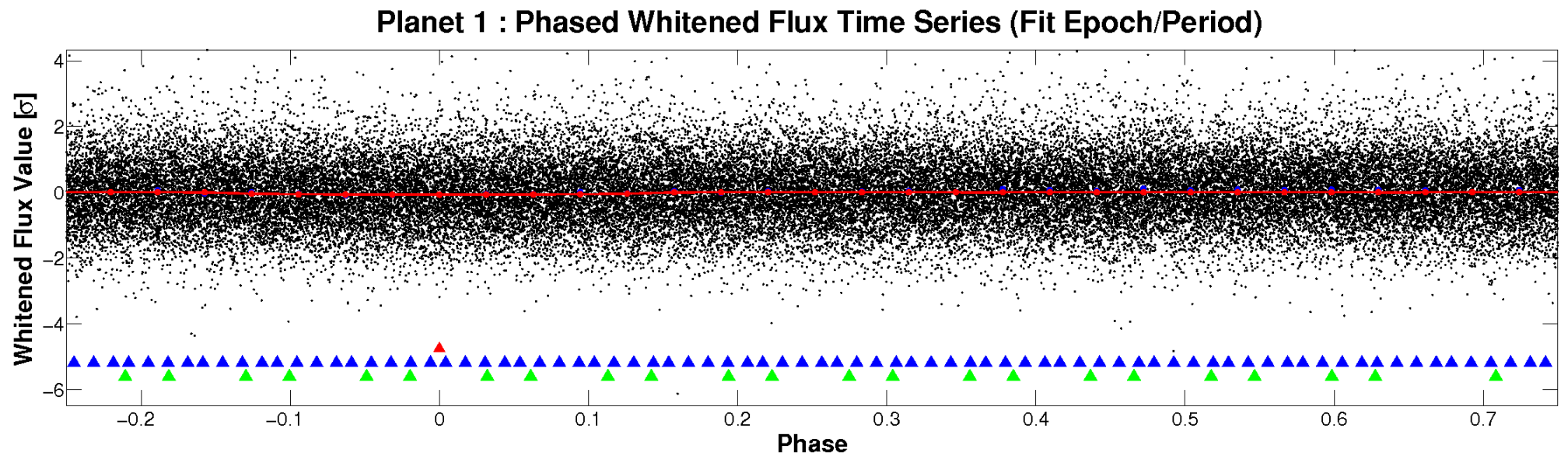
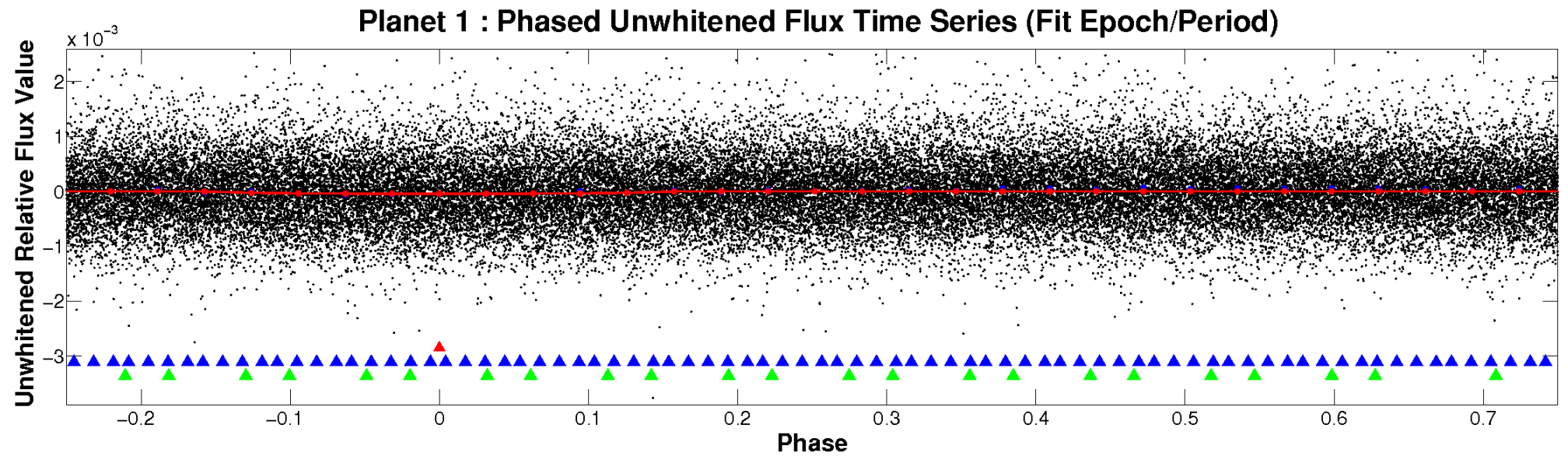


ALT Odd/Even

TCE 004850763-01

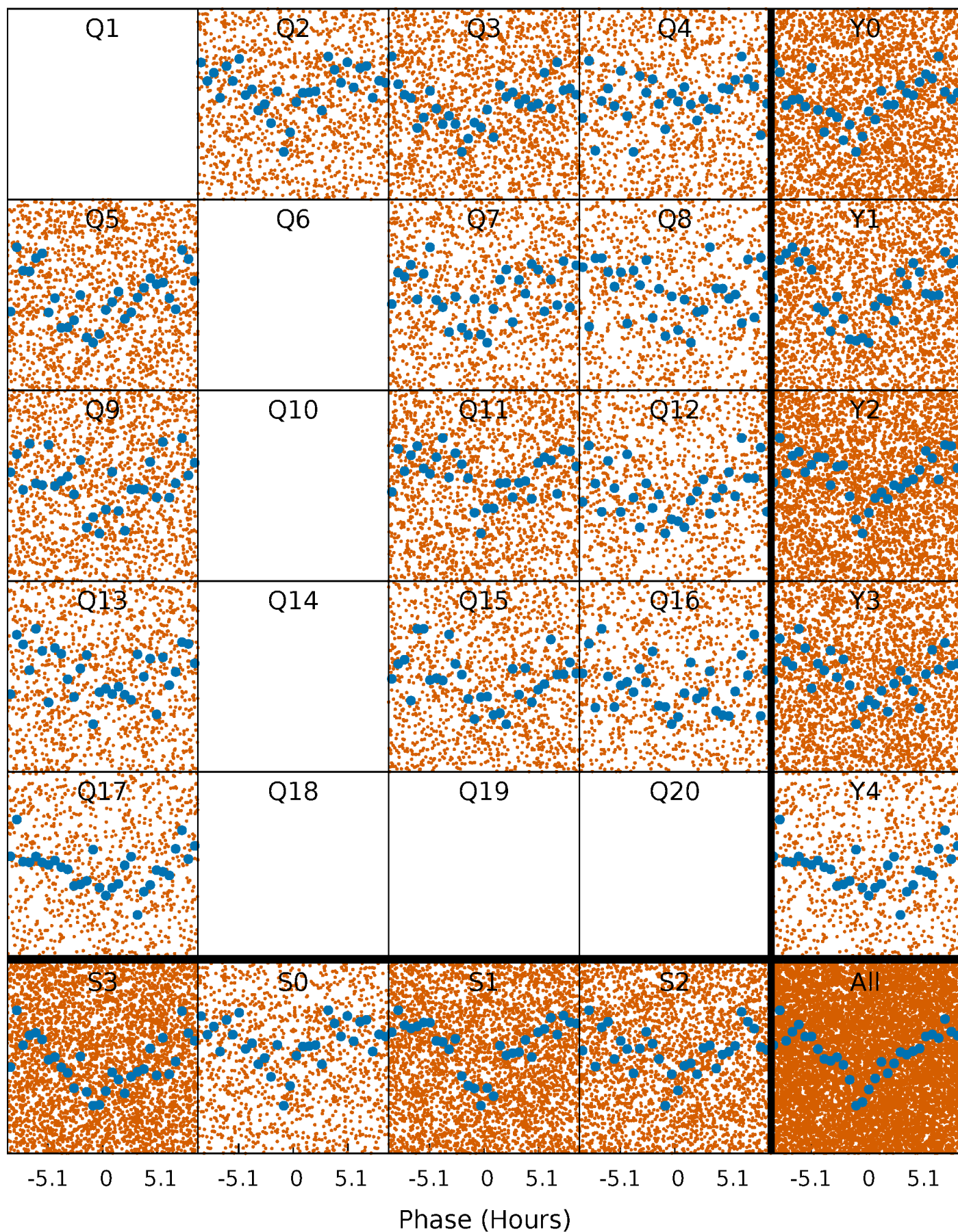


Non-Whitened Vs. Whitened Light Curve



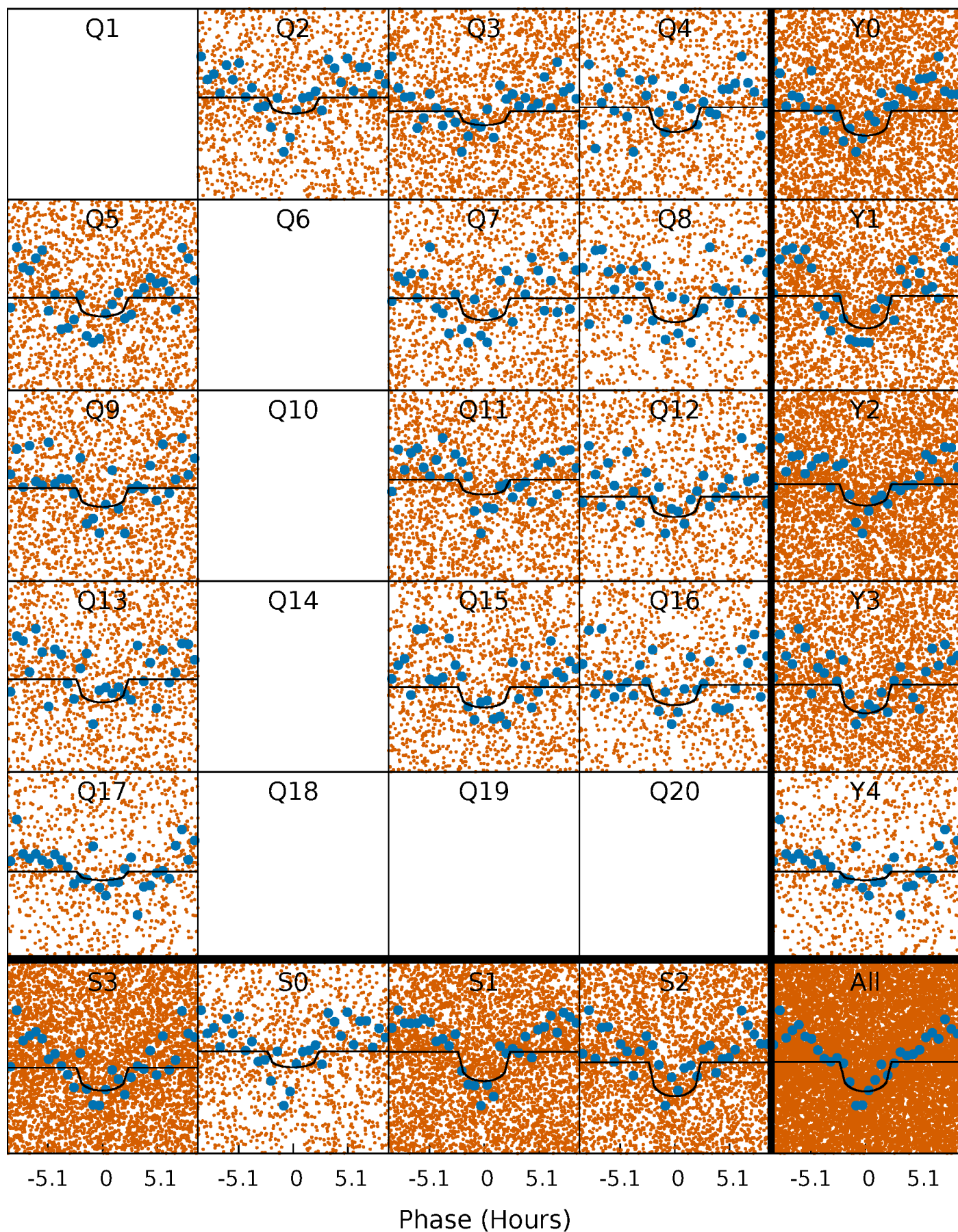
PDC Quarter-Phased Transit Curves

TCE 004850763-01 P= 0.649011 Days $T_0=132.048393$ (BKJD)



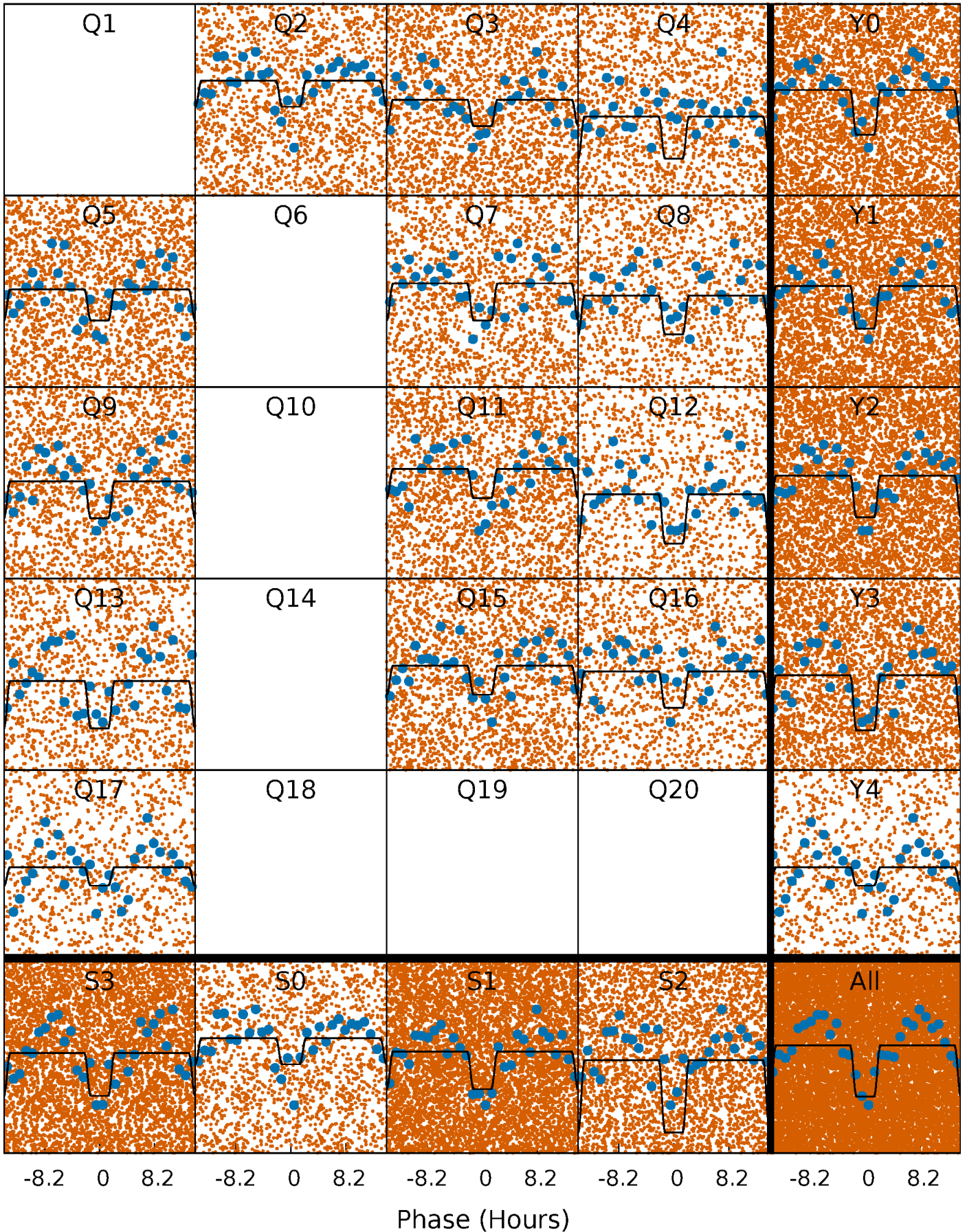
DV Quarter-Phased Transit Curves

TCE 004850763-01 P= 0.649011 Days $T_0=132.048393$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

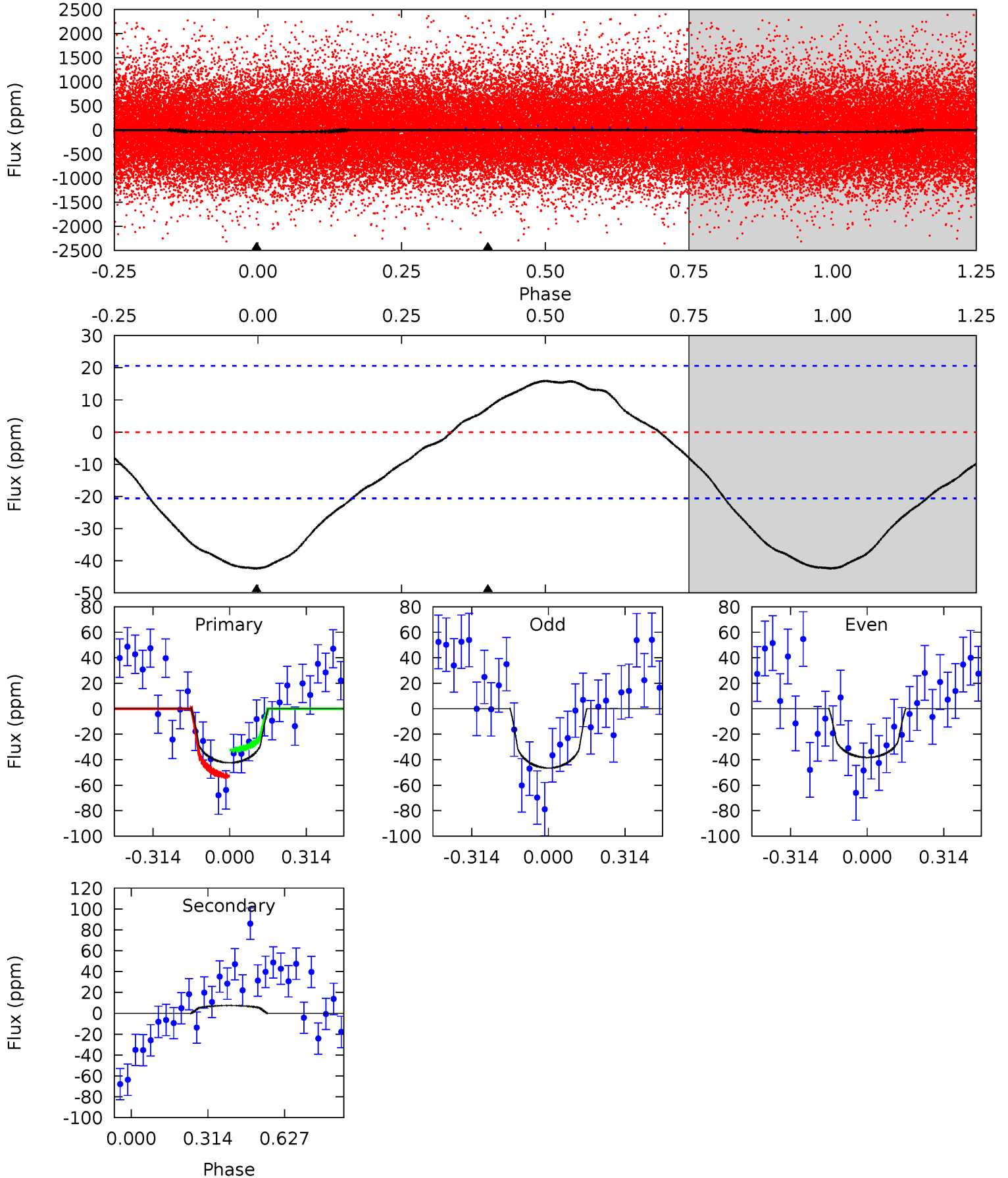
TCE 004850763-01 P= 0.649039 Days $T_0=132.000464$ (BKJD)



DV Model-Shift Uniqueness Test

004850763-01, P = 0.649011 Days, E = 132.048393 Days

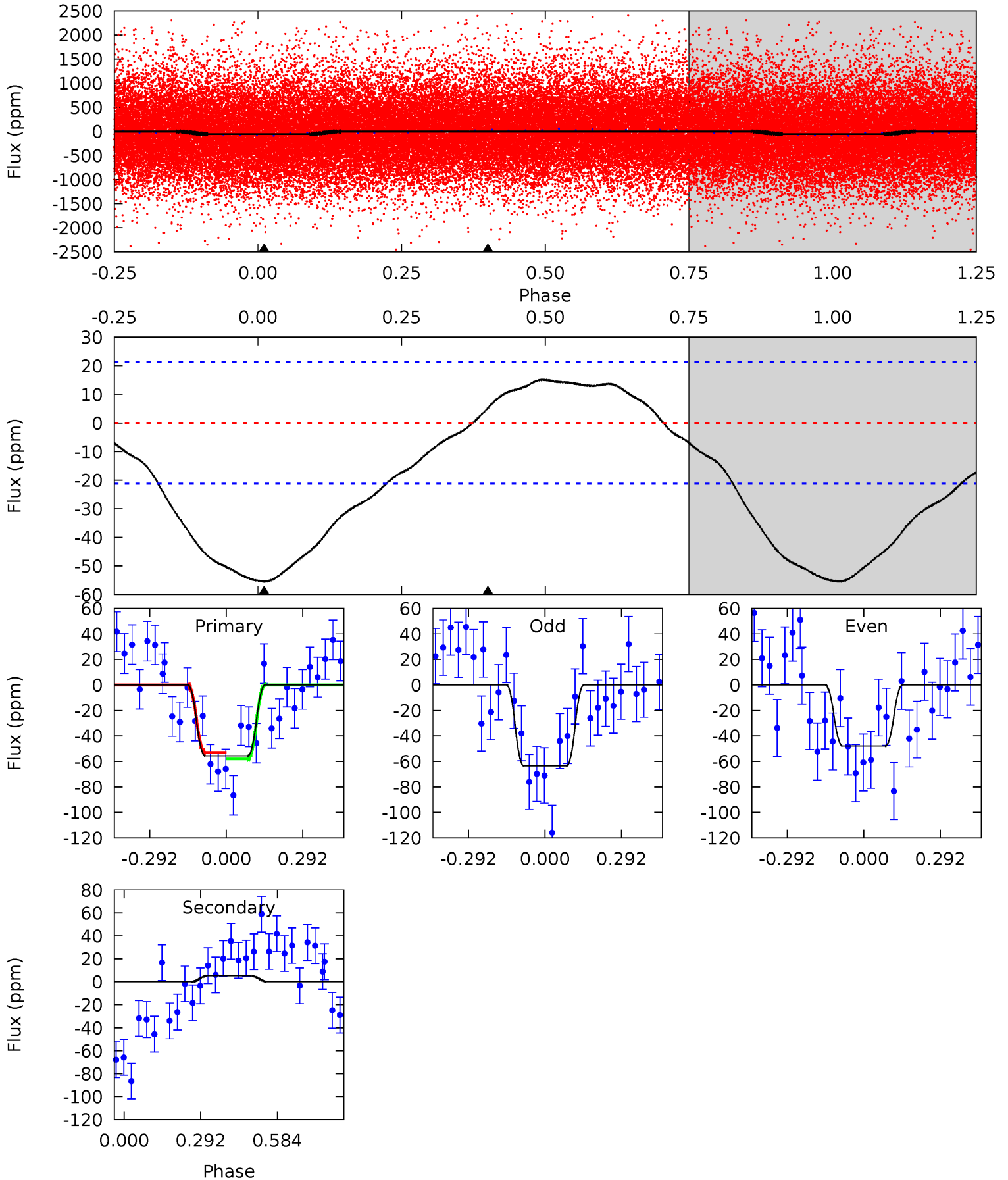
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.89	-1.56	0	0	4.32	1.01	0.81	8.89	8.89	-1.56	-1.56	0.87	1.00	0.27	2.17



Alt Model-Shift Uniqueness Test

004850763-01, P = 0.649039 Days, E = 132.000464 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.3	-1.06	0	0	4.33	1.05	1.10	11.3	11.3	-1.06	-1.06	1.59	1.05	0.21	0.50



Stellar Parameters For KIC 004850763

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6077^{+189}_{-210}	$4.471^{+0.055}_{-0.176}$	$-0.040^{+0.250}_{-0.300}$	$0.999^{+0.247}_{-0.114}$	$1.077^{+0.126}_{-0.153}$	$1.519^{+0.367}_{-0.730}$
	+3%/-3%	+1%/-4%	+625%/-750%	+25%/-11%	+12%/-14%	+24%/-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 004850763-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	7 ± 5	$1.27^{+1.34}_{-0.88}$	3108^{+195}_{-149}	-3664^{+389}_{-1665}	$-0.437^{+0.361}_{-4.703}$
Alt.	5 ± 5	$1.35^{+1.44}_{-0.96}$	3113^{+189}_{-161}	-3466^{+338}_{-1383}	$-0.211^{+0.204}_{-3.045}$

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 $A_{obs} \gg 1.0$

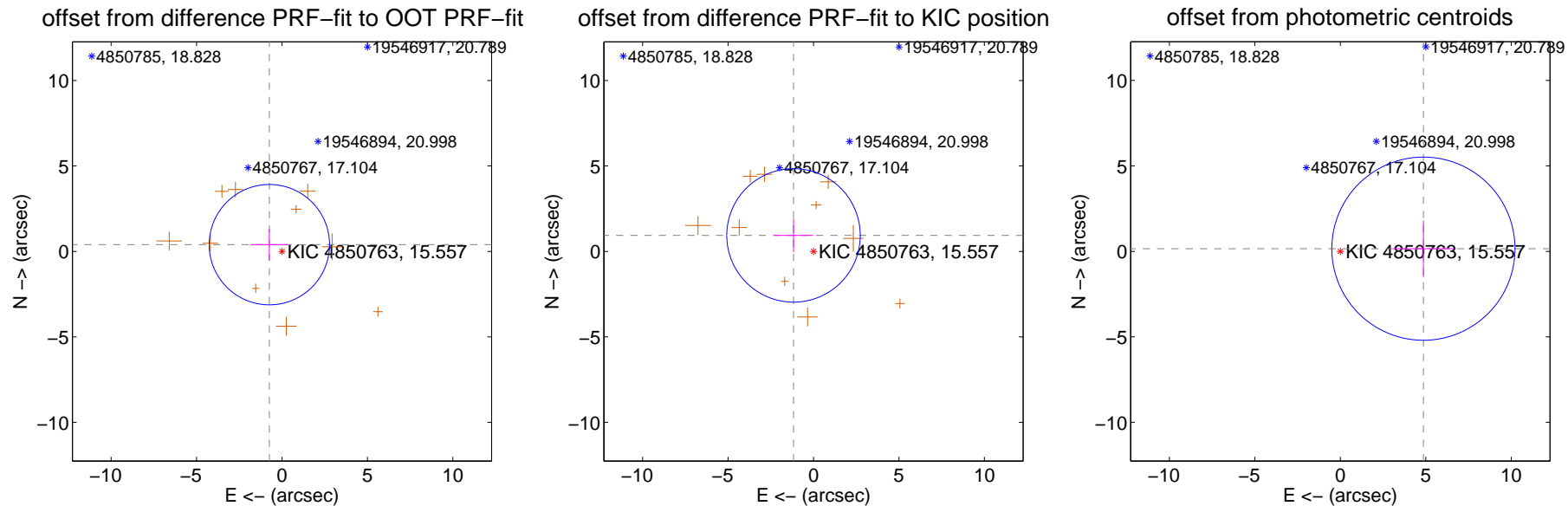
DV Centroid Data

Supplemental centroid analysis for 004850763-01. Kepler magnitude: 15.56. Transit SNR 7.08

There are 0 quarters with good PRF difference image offsets

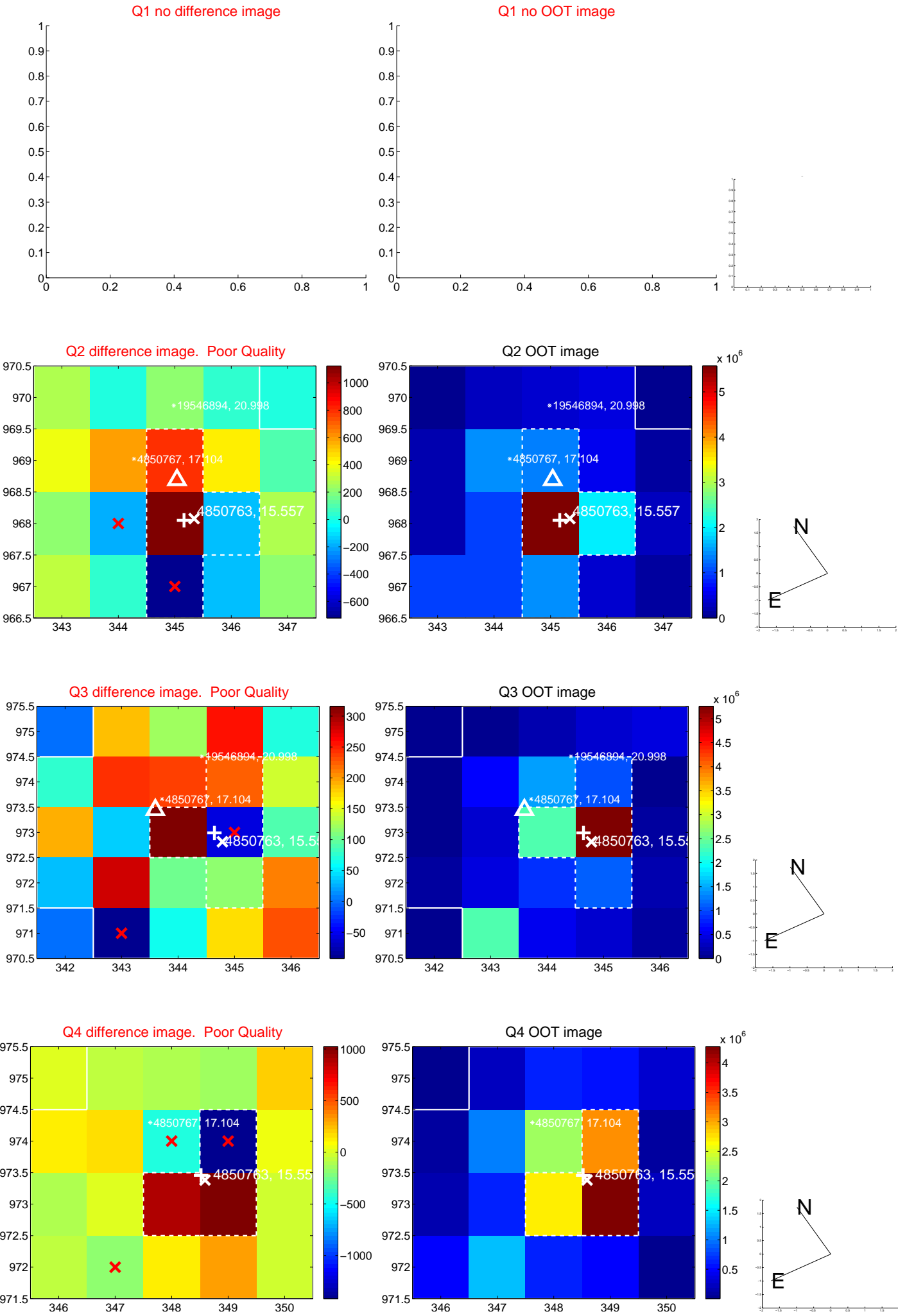
The direct PRF centroid is offset from the target star catalog position by about 0.81 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.838 ± 1.174	0.71	0.739 ± 1.092	0.396 ± 0.914
PRF-fit source offset from KIC position	1.499 ± 1.302	1.15	1.170 ± 1.148	0.938 ± 0.983
photometric centroid source offset	4.87 ± 1.79	2.72	-4.86 ± 1.79	0.16 ± 1.65

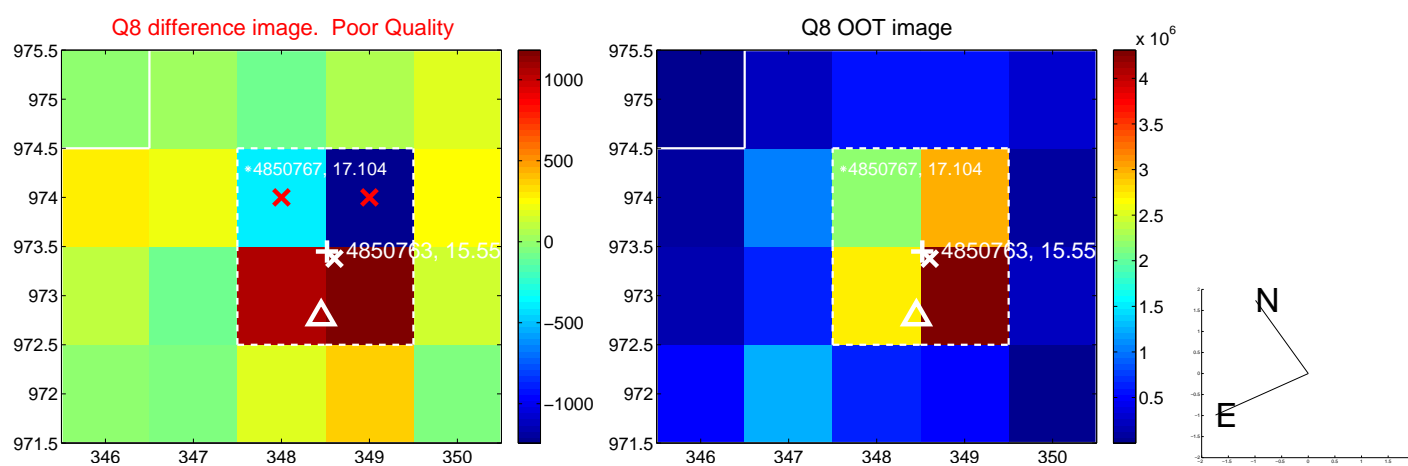
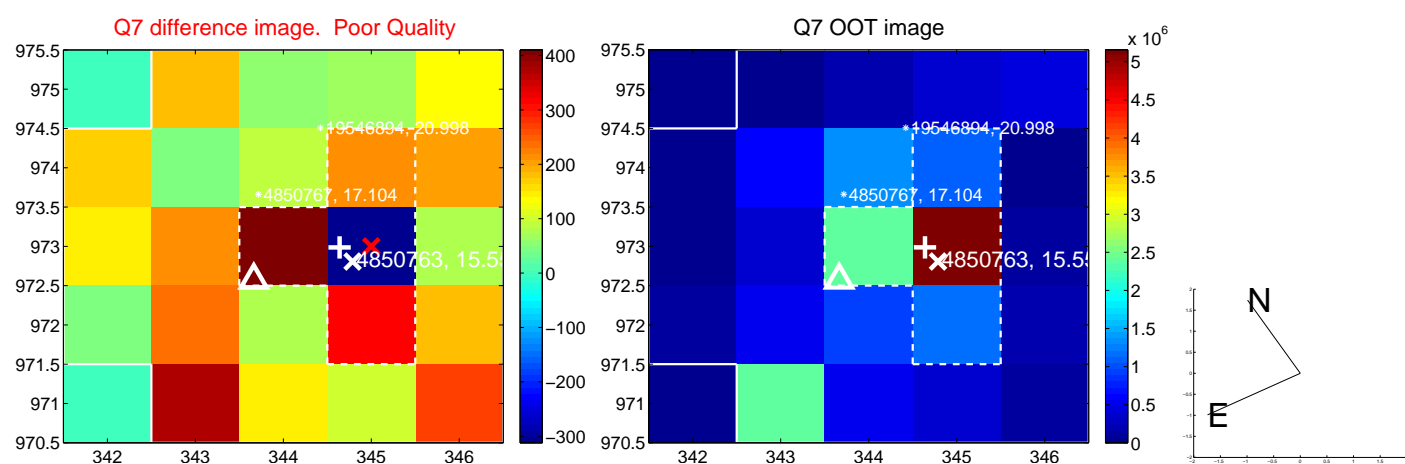
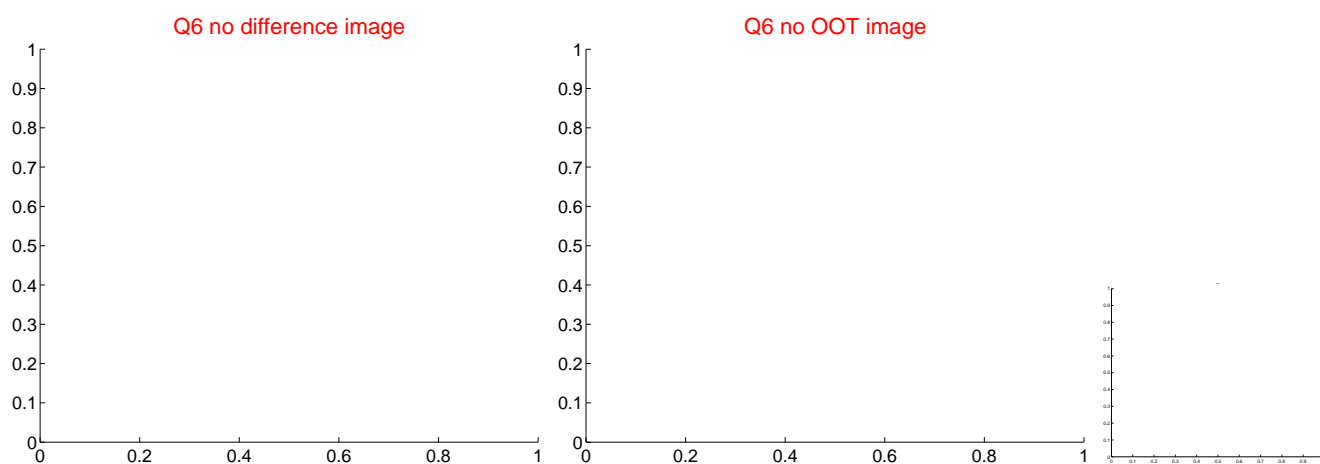
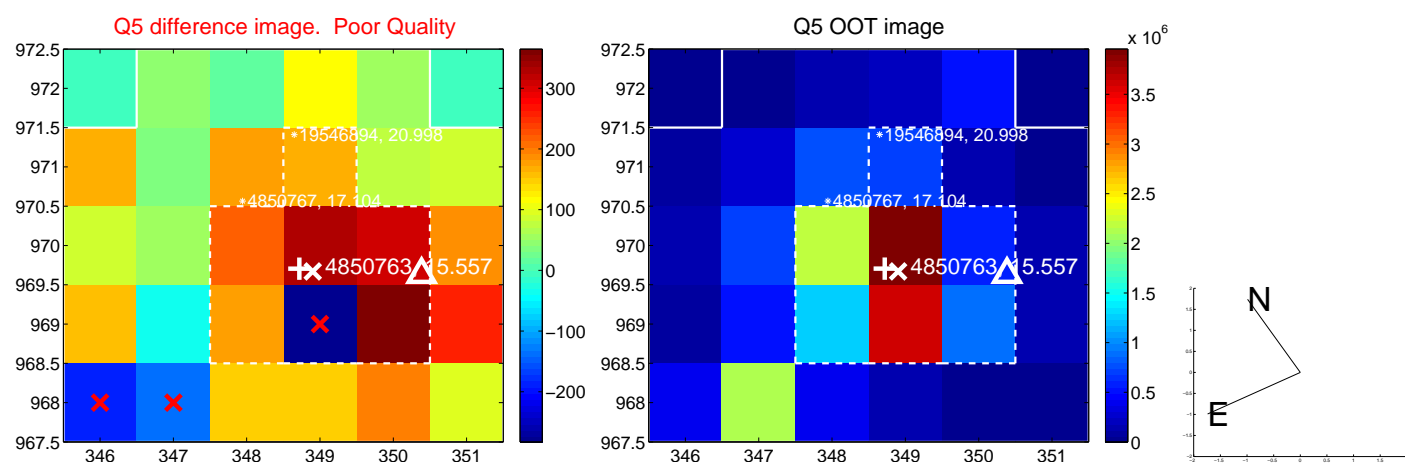


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

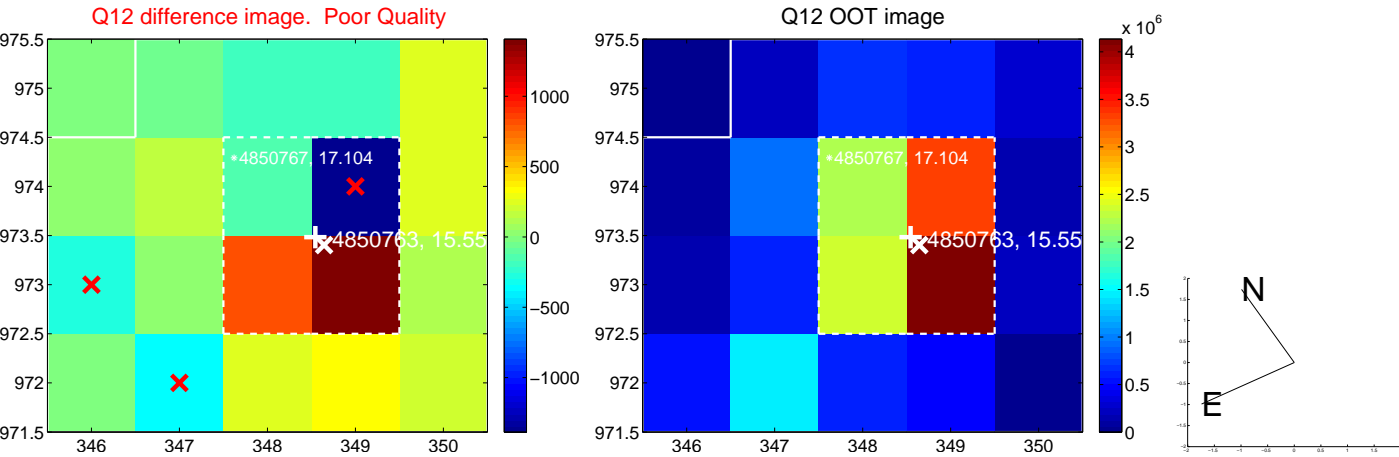
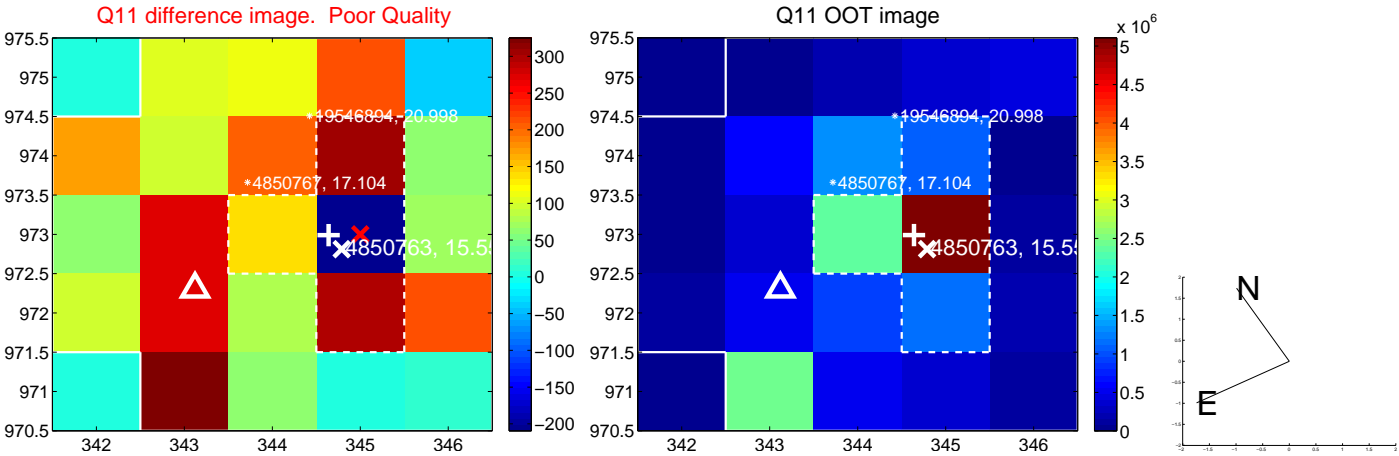
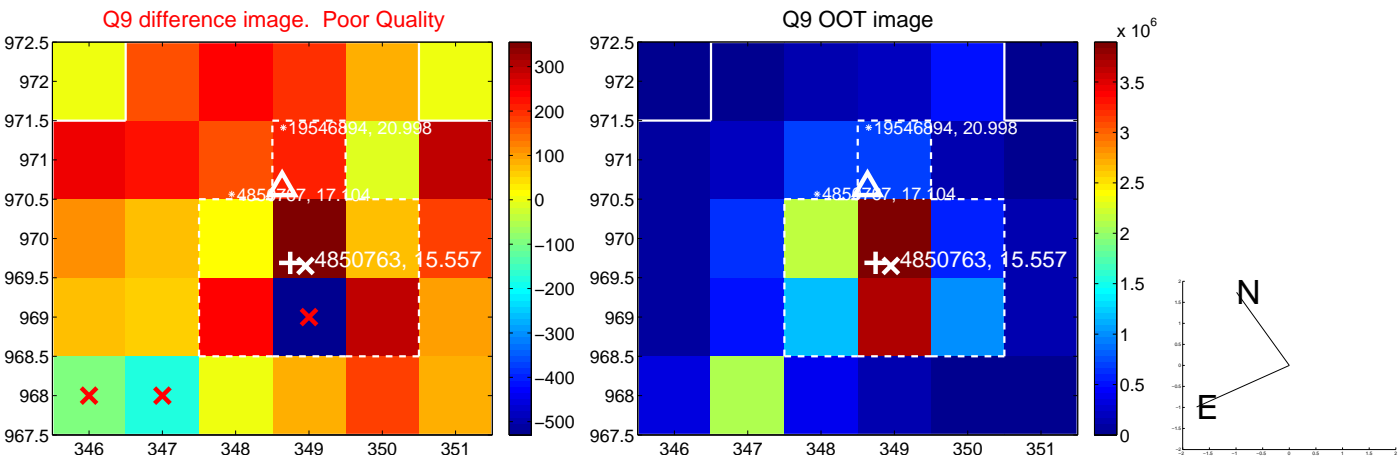
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



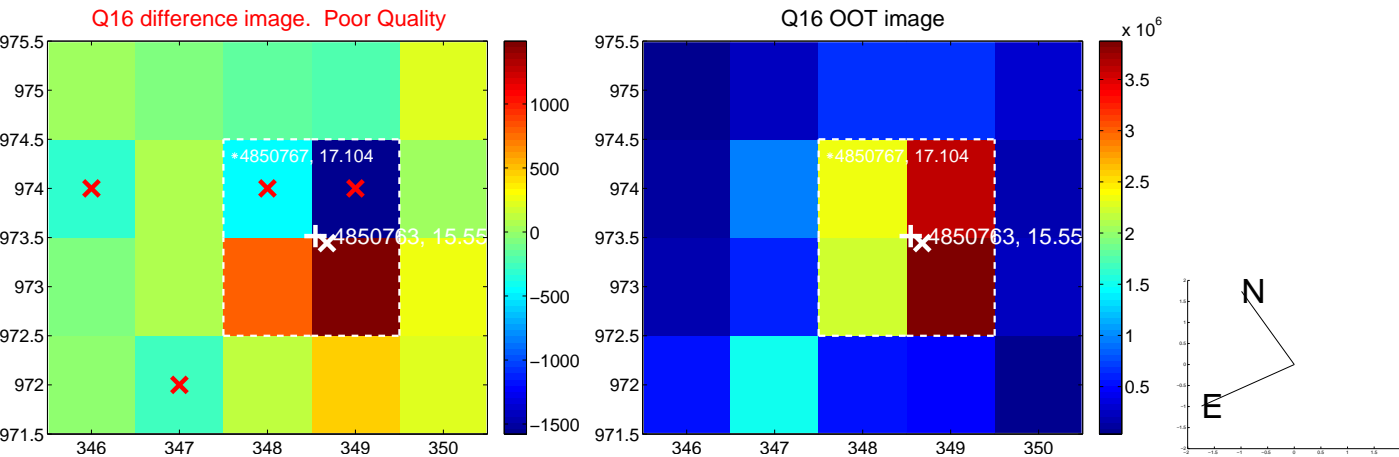
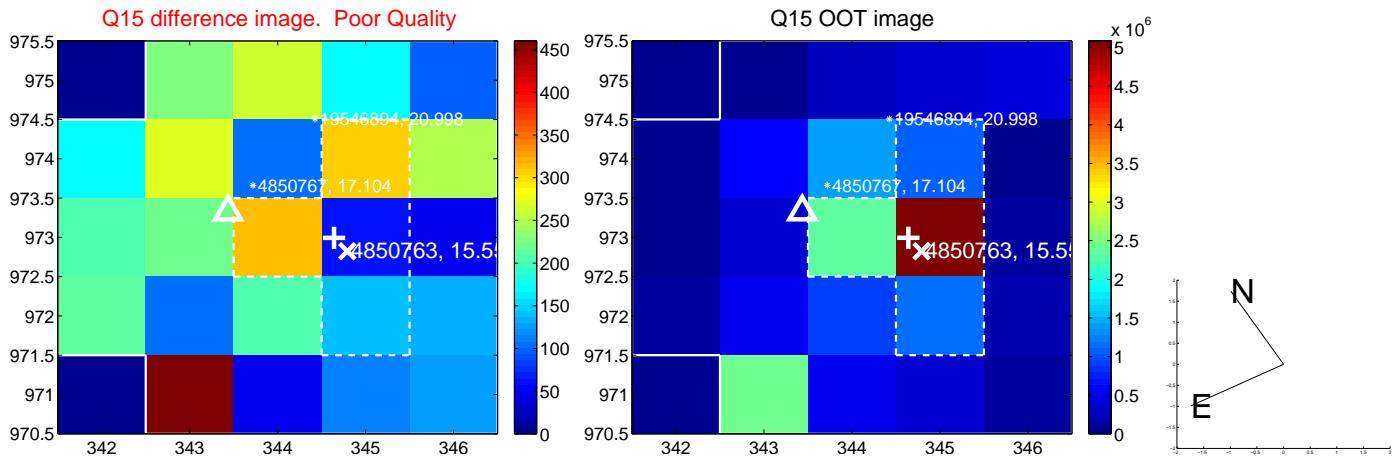
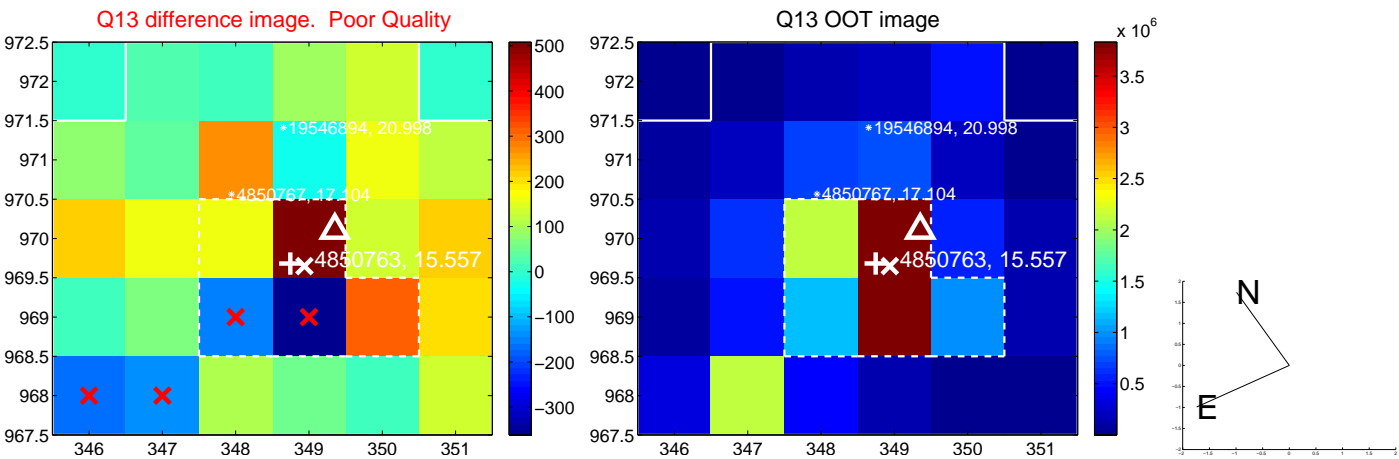
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



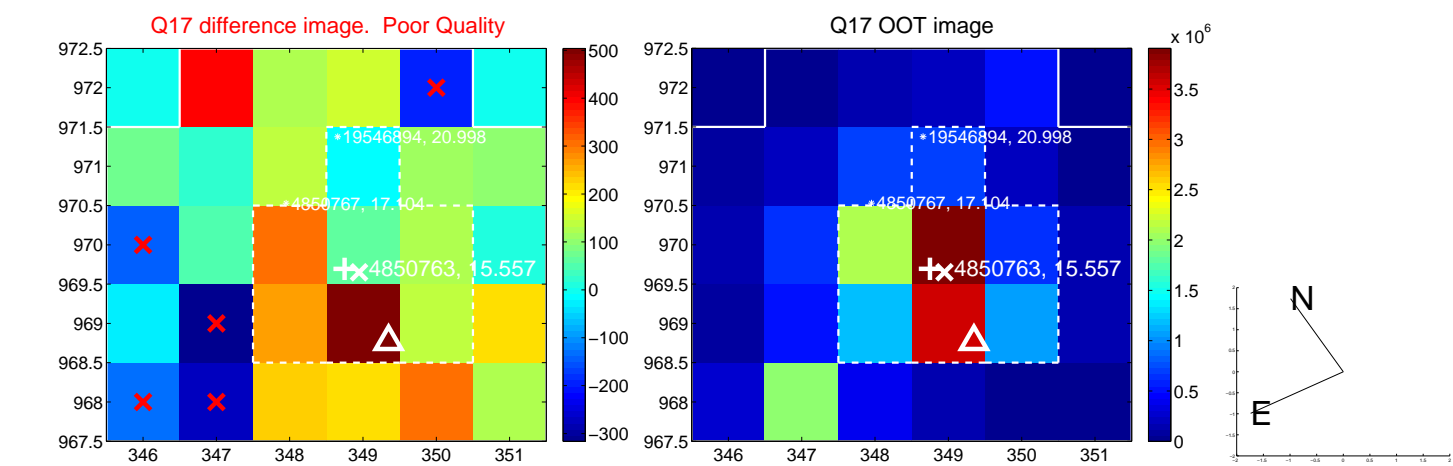
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



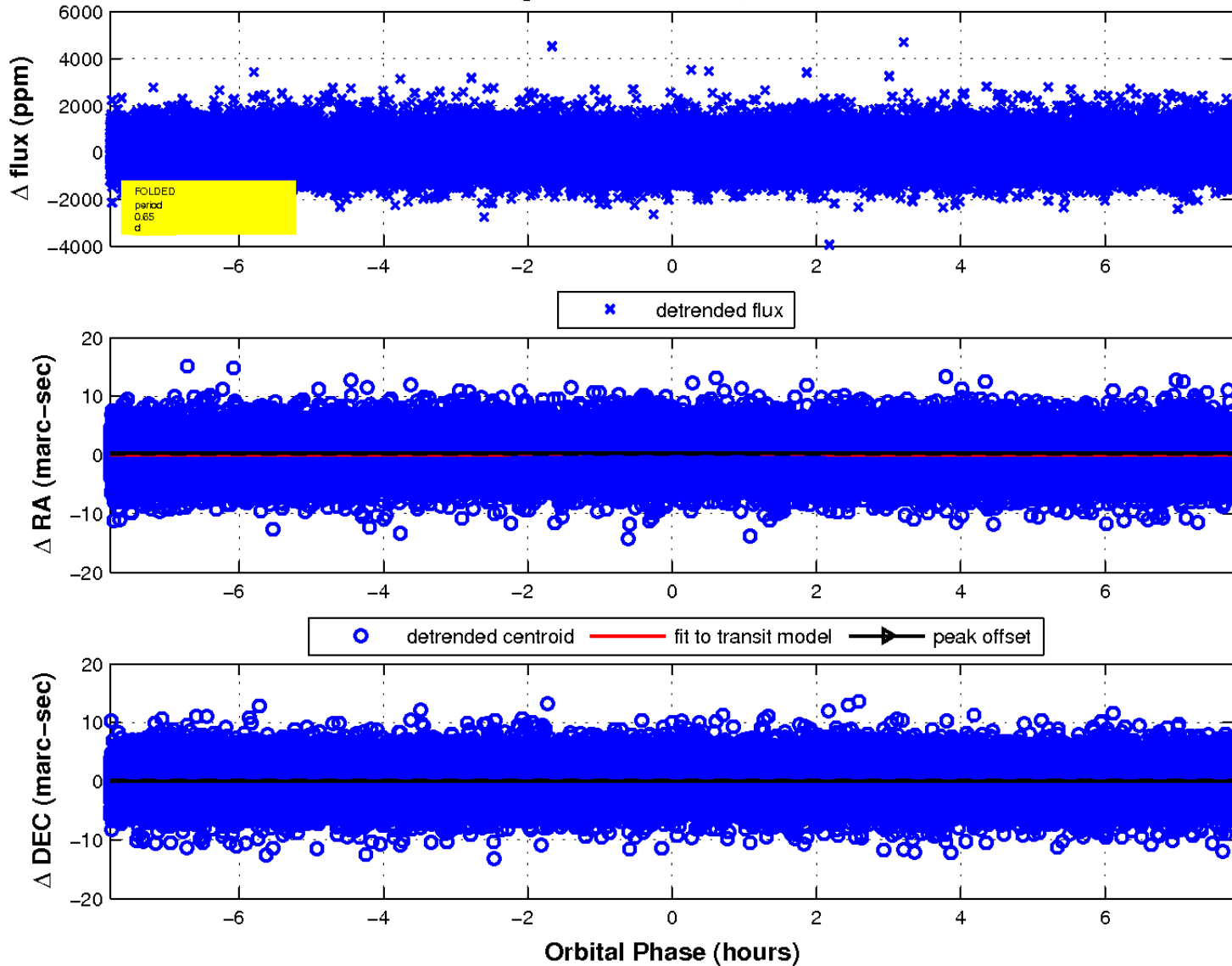
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

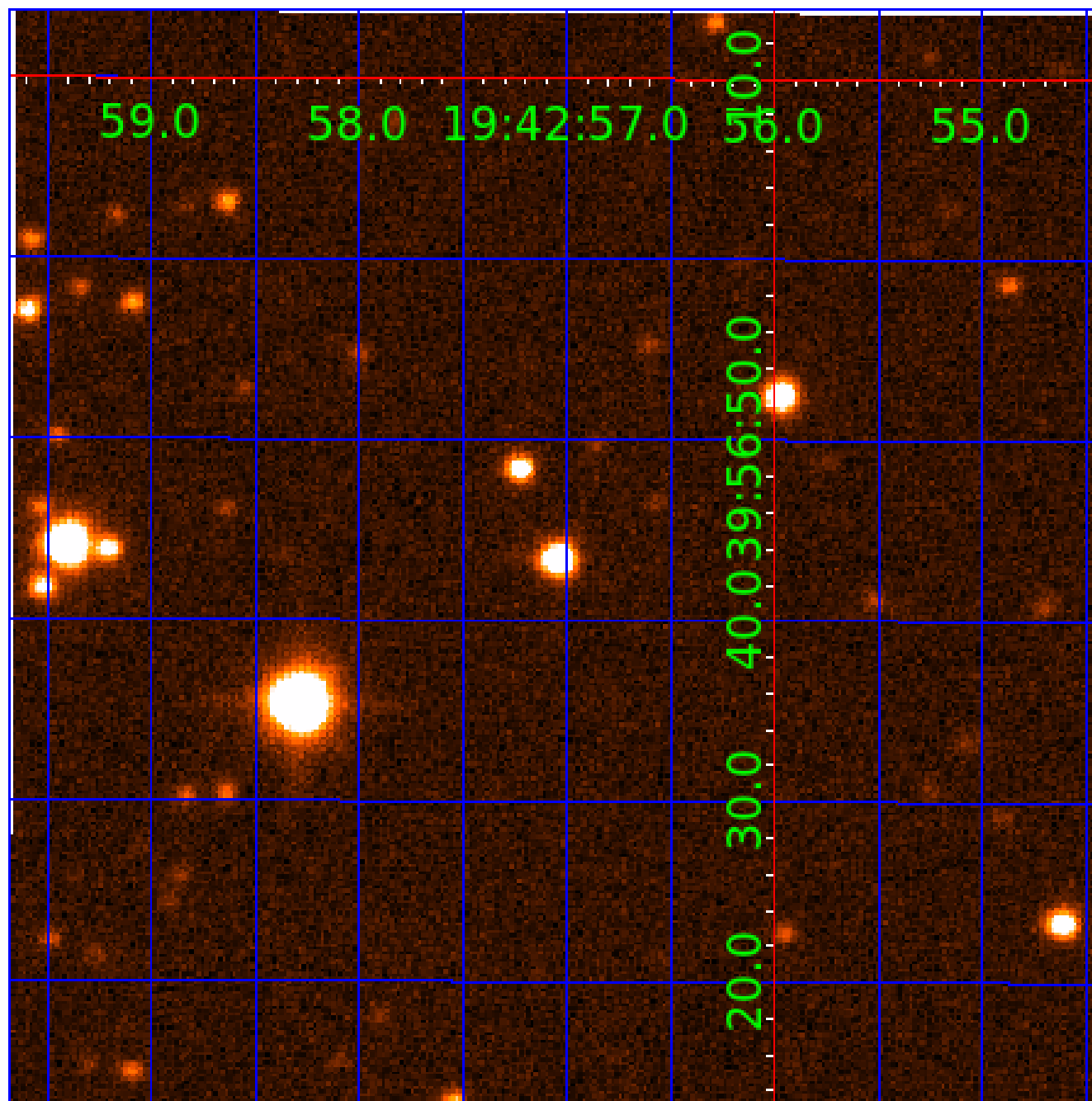


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 004850763

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})
004850763-01	OBS	No	0.649011	132.048393	43.8	4.450	7.8	7.1	1.00	6077	0.66	5391.28
004850763-02	OBS	No	18.342655	141.268667	507.0	3.197	9.0	7.7	1.00	6077	2.57	62.62
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004850763-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_FEW_DIFFS
004850763-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
004850763-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

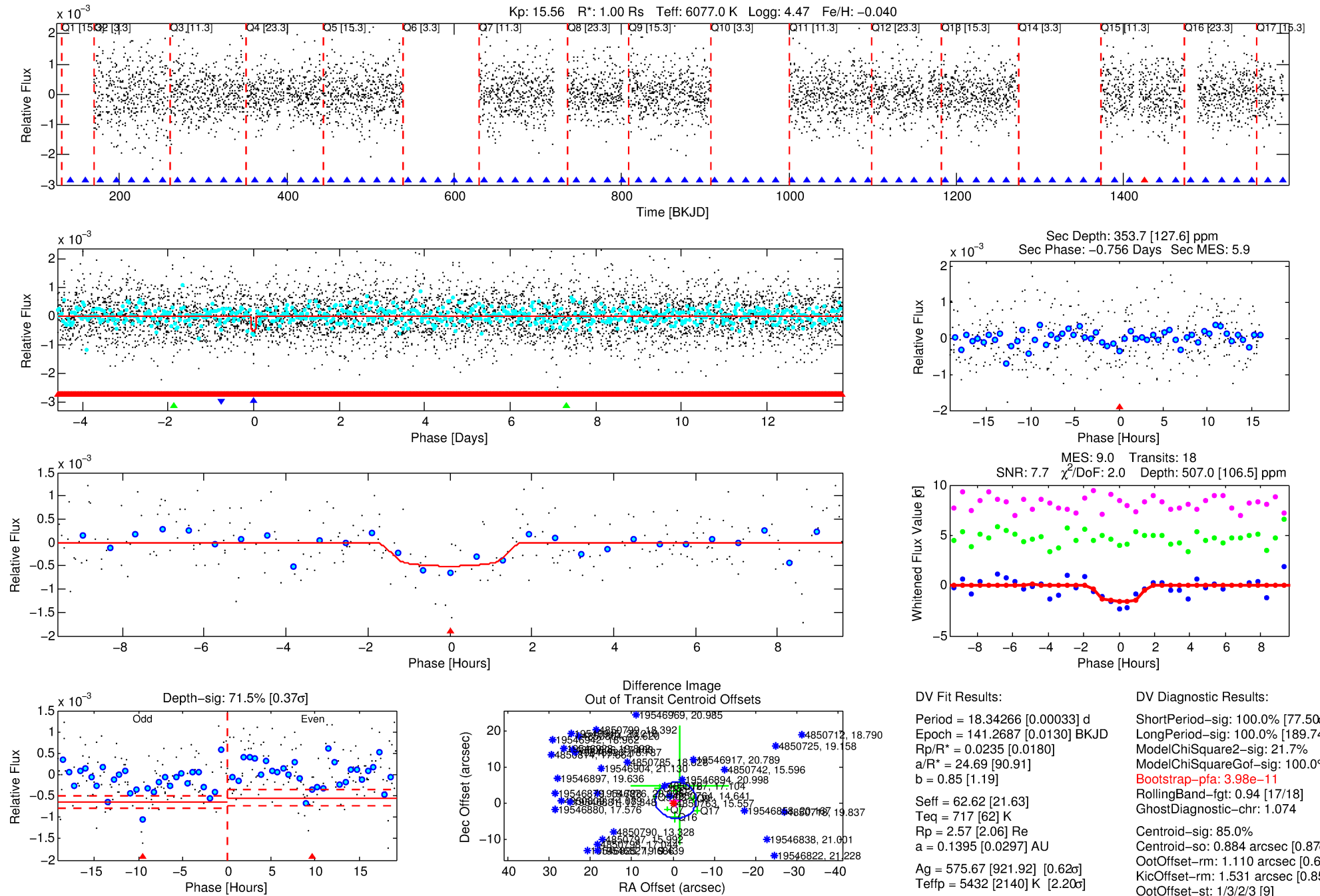
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004850763-02

No Significant Match Found

DV One-Page Summary

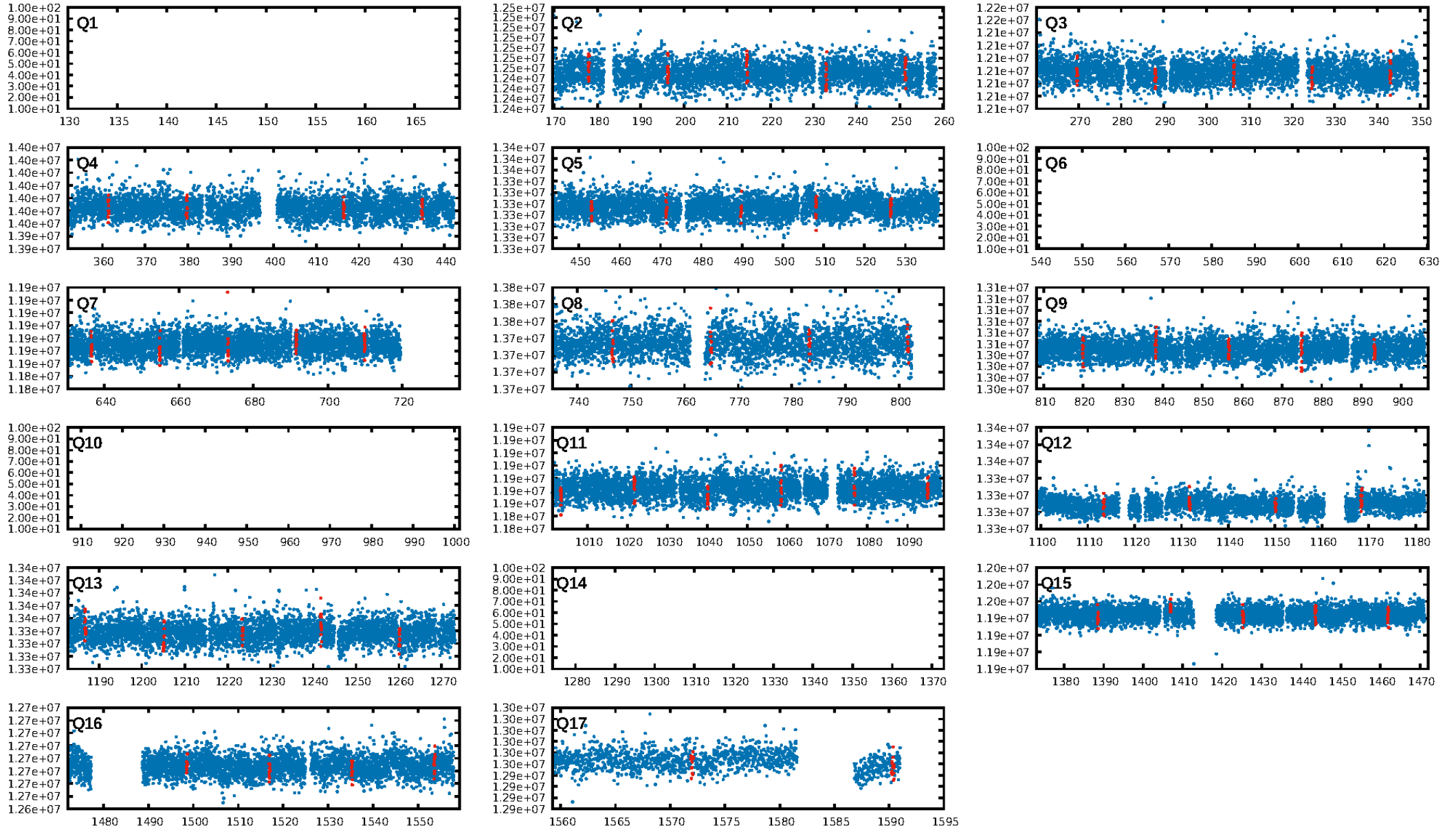
KIC: 4850763 Candidate: 2 of 3 Period: 18.343 d



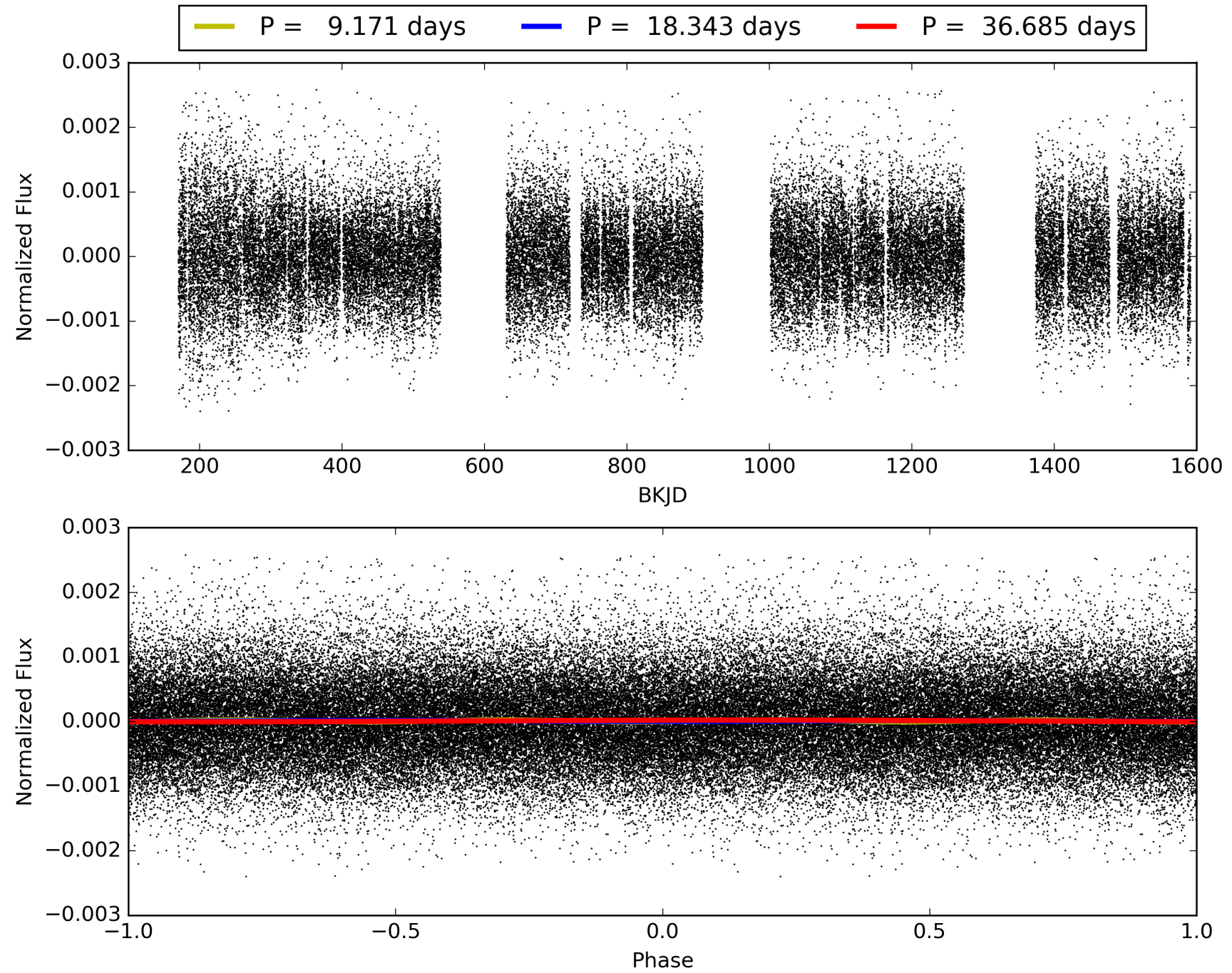
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 08:11:17 Z

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

TCE 004850763-02, PDC Light Curves

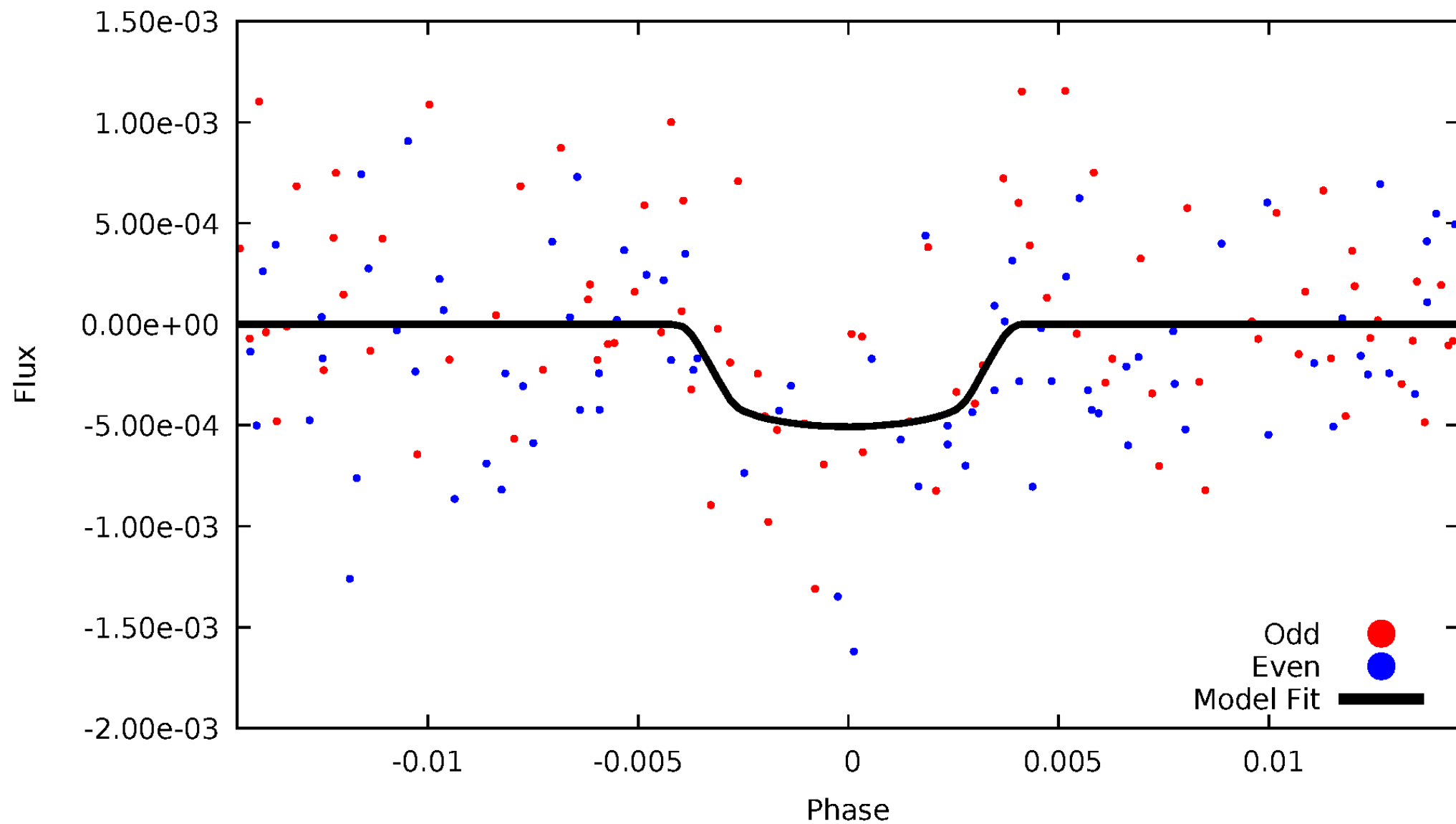


TCE 004850763-02



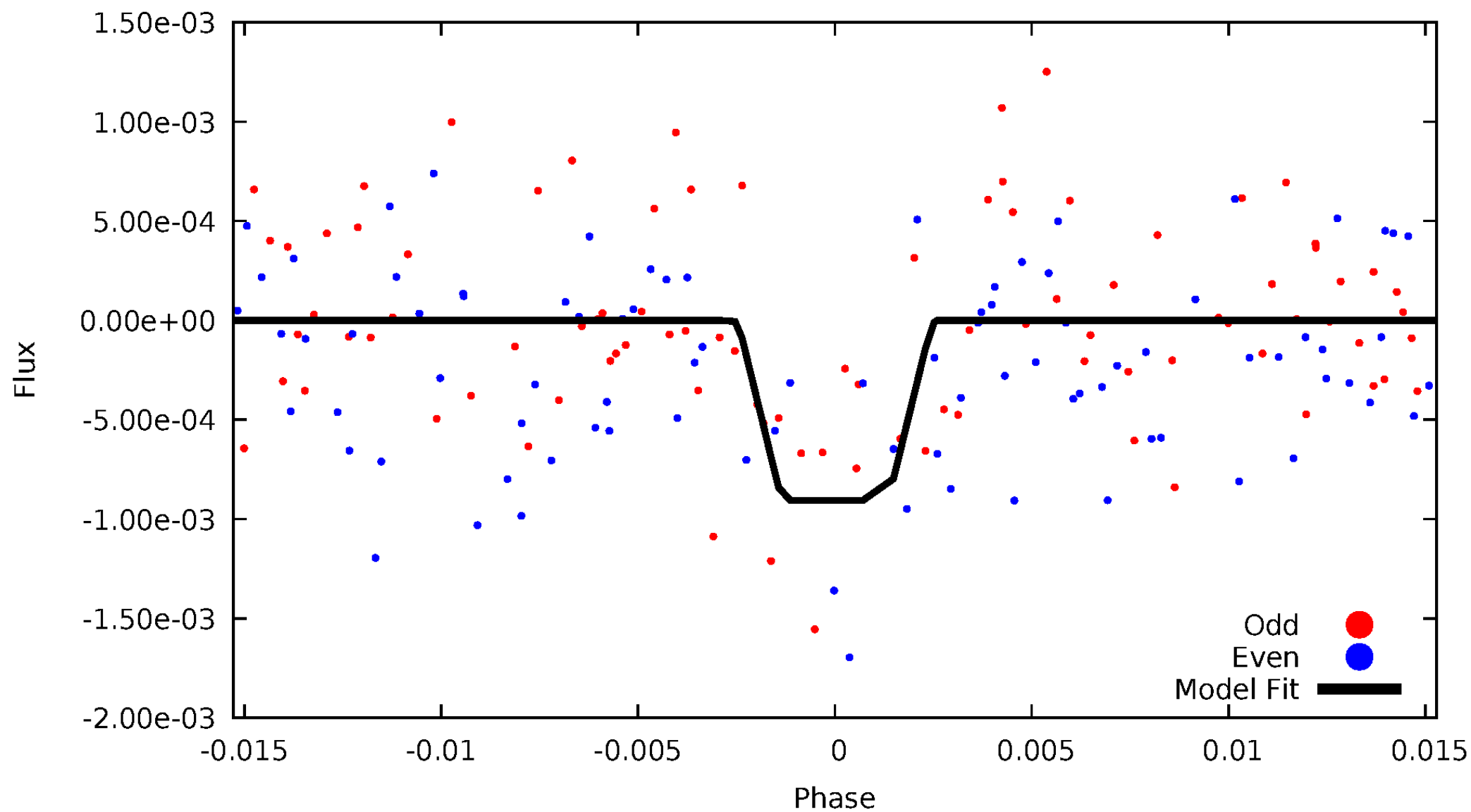
DV Odd/Even

TCE 004850763-02



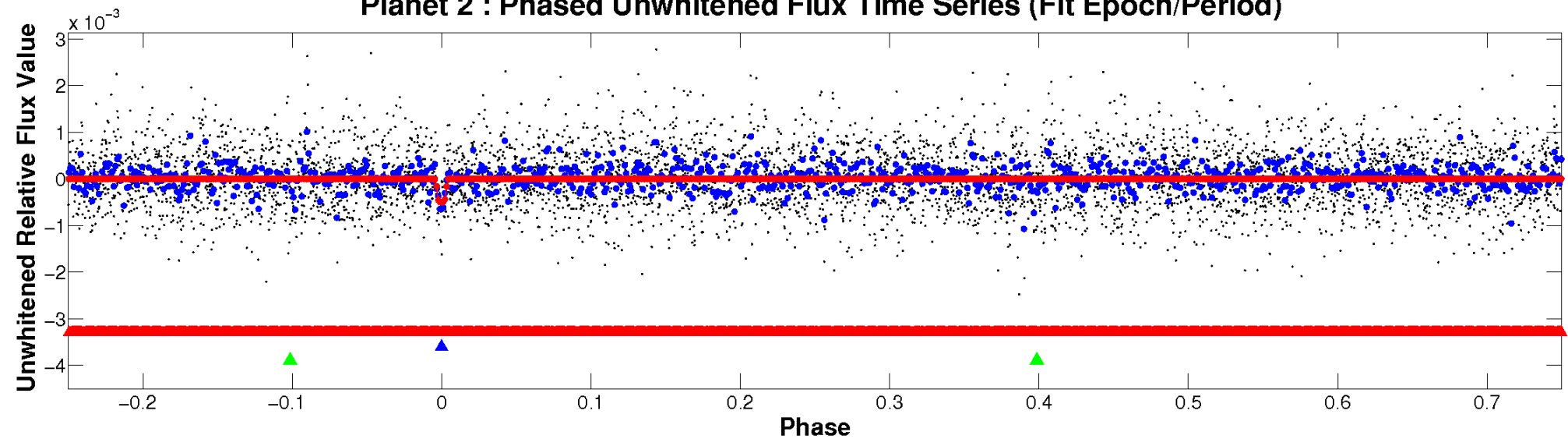
ALT Odd/Even

TCE 004850763-02

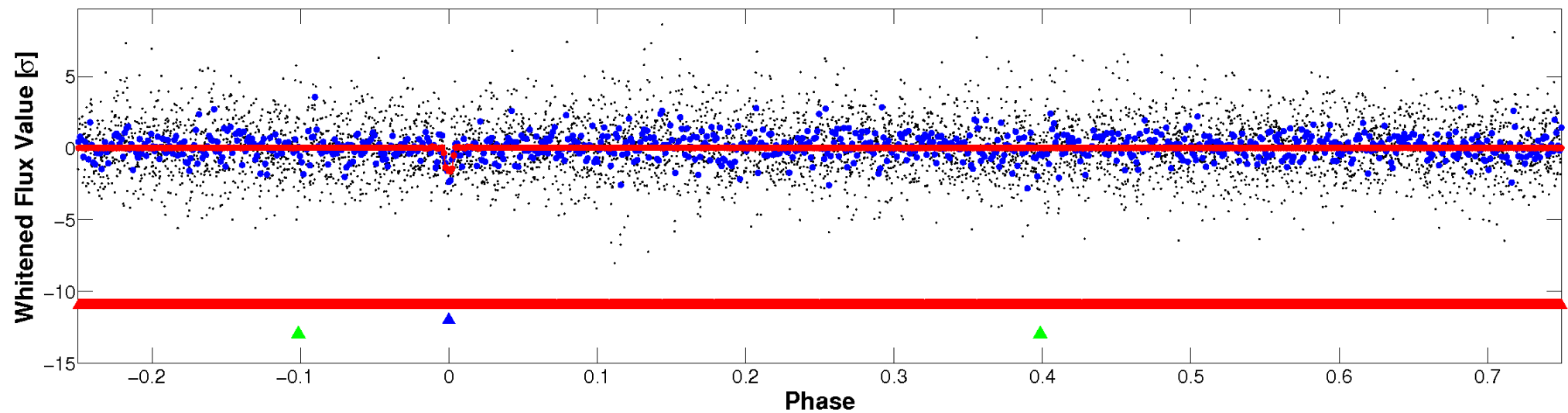


Non-Whitened Vs. Whitened Light Curve

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

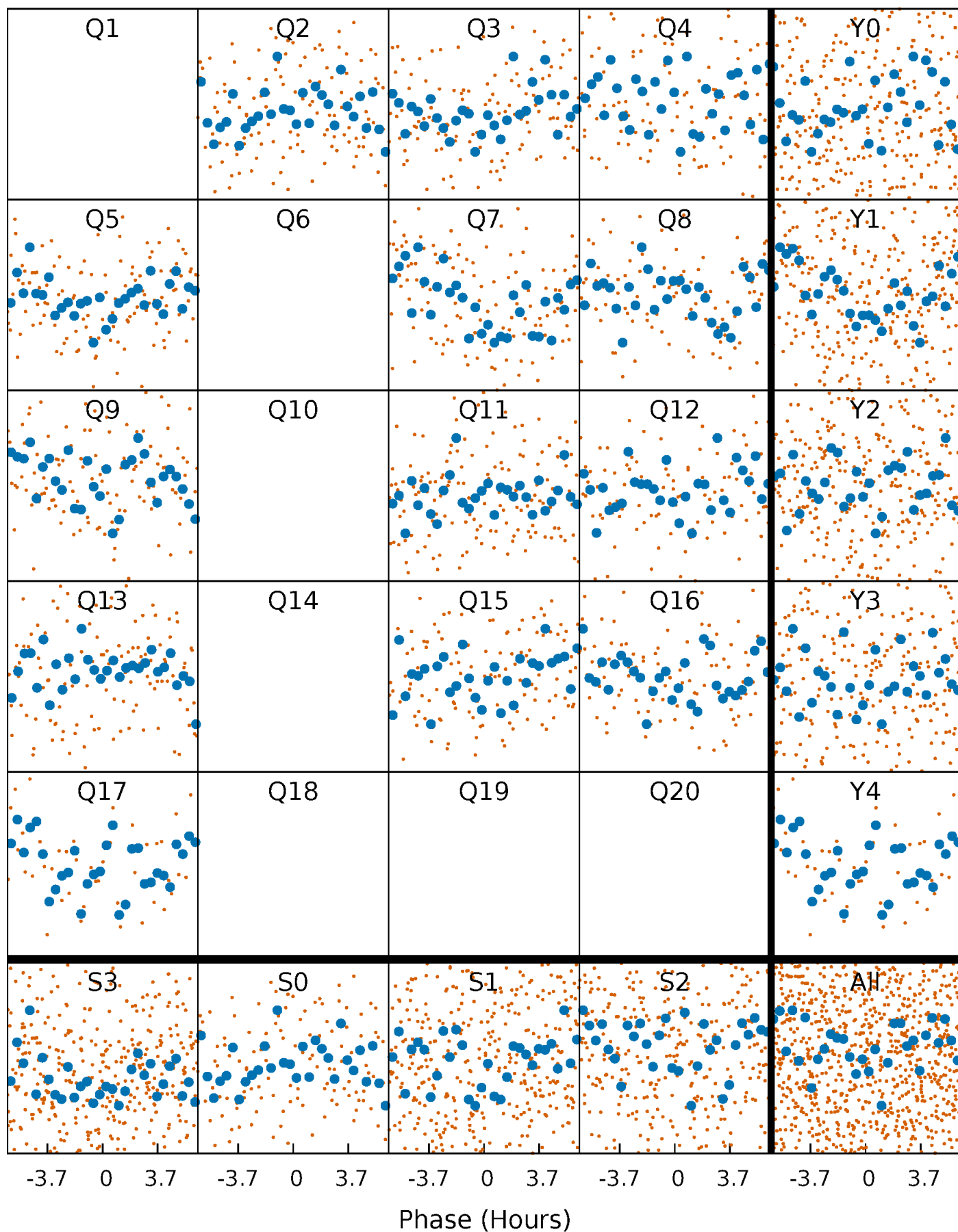


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



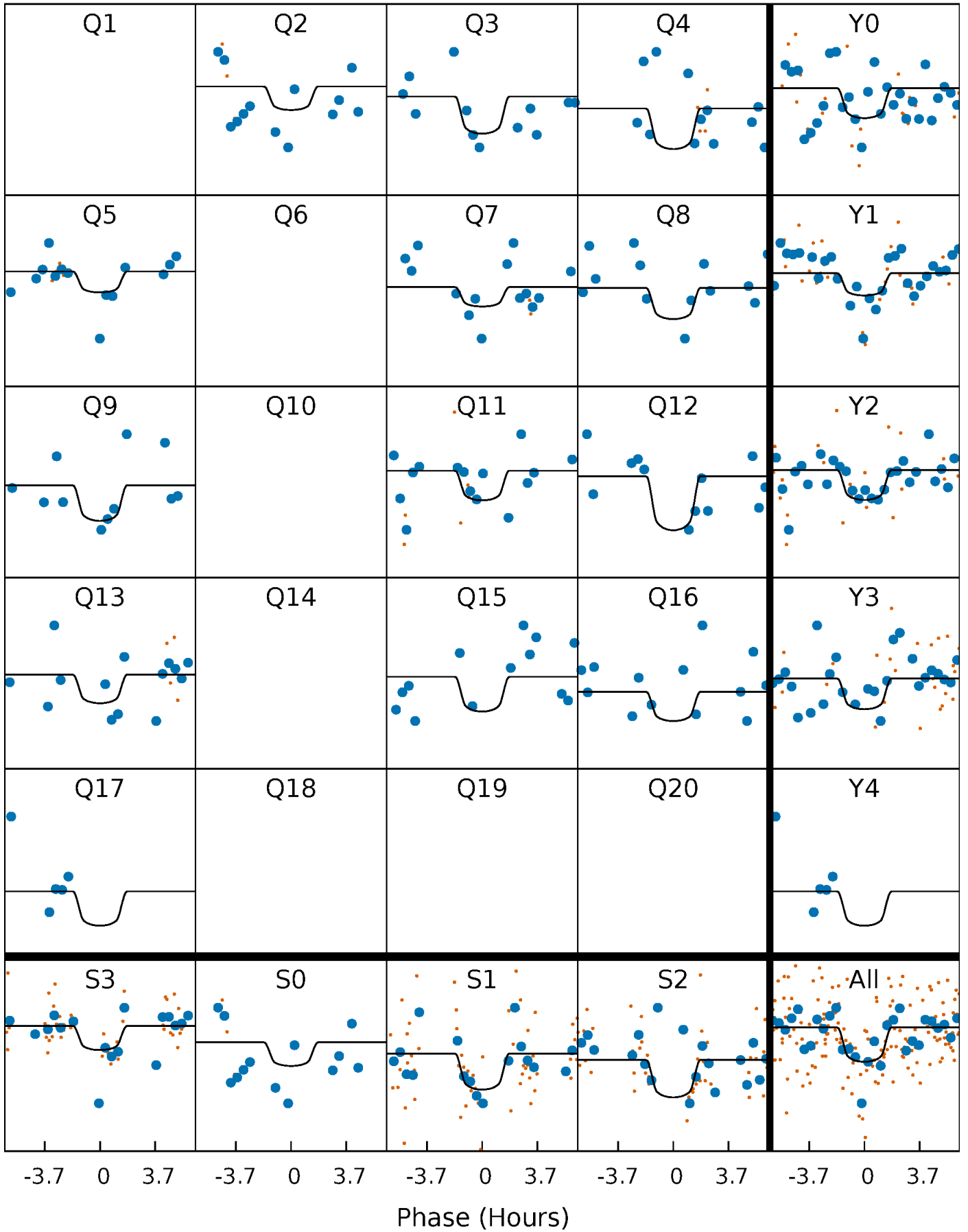
PDC Quarter-Phased Transit Curves

TCE 004850763-02 P= 18.342655 Days $T_0=141.268667$ (BKJD)



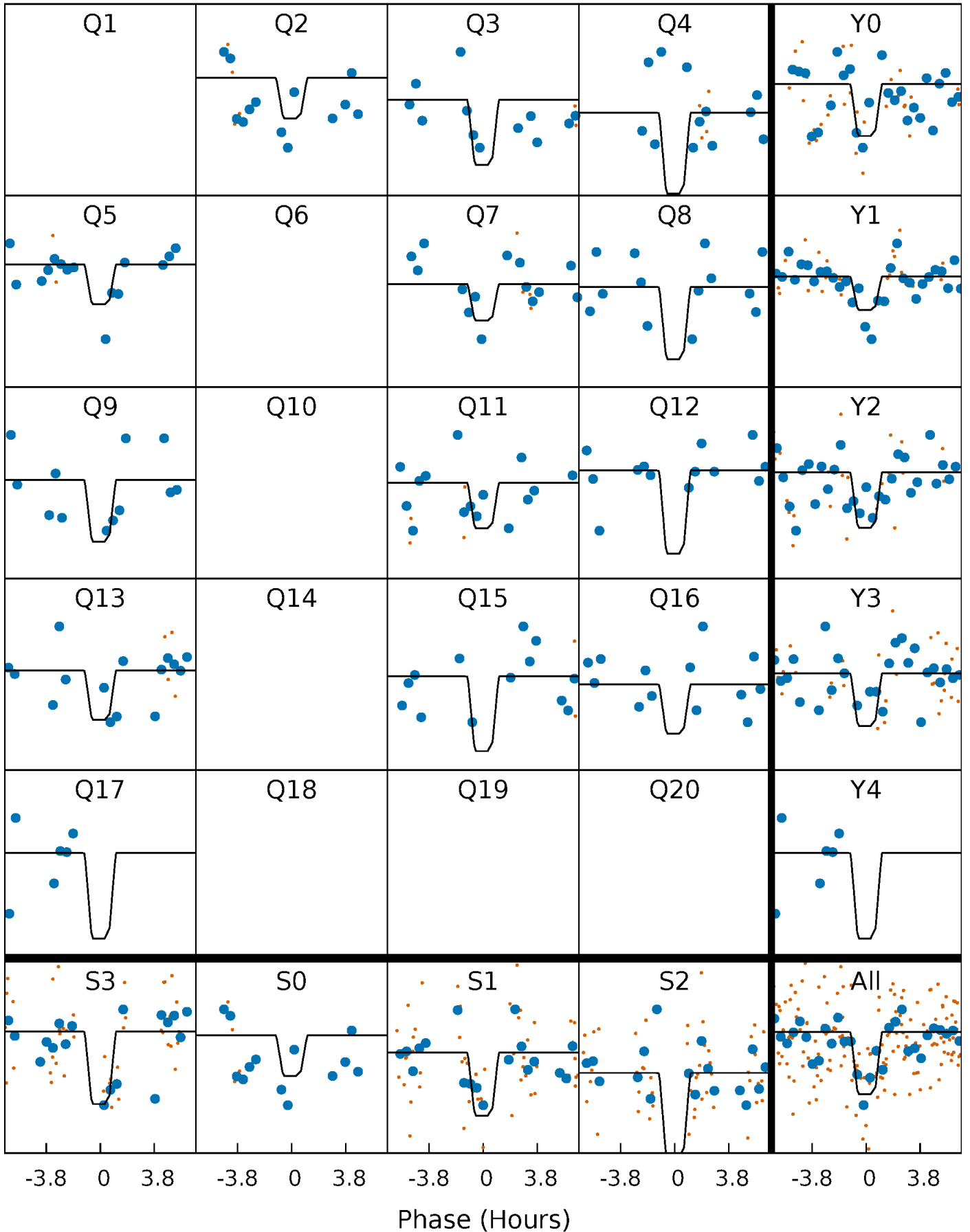
DV Quarter-Phased Transit Curves

TCE 004850763-02 P= 18.342655 Days $T_0=141.268667$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

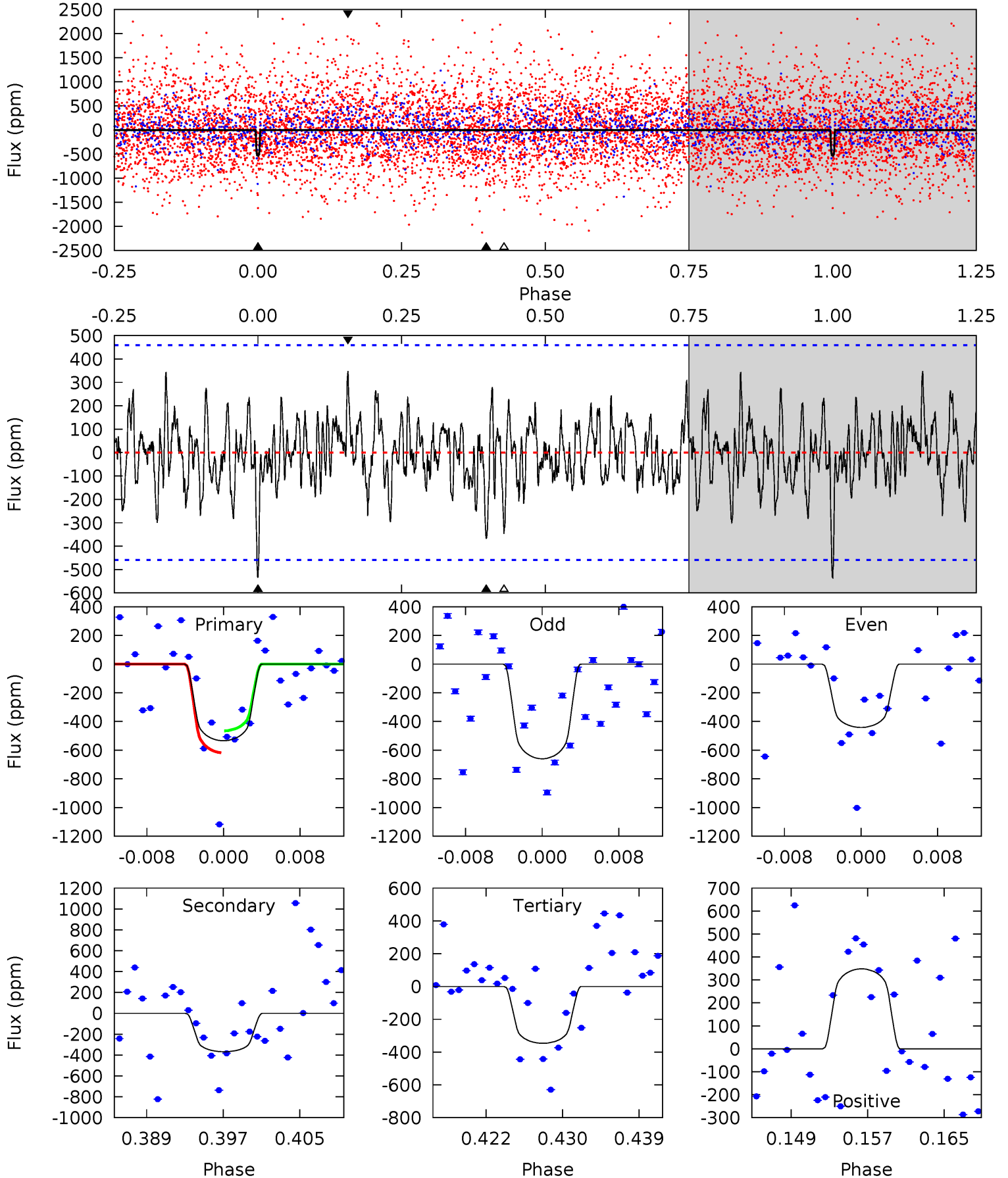
TCE 004850763-02 P= 18.342697 Days $T_0=141.263347$ (BKJD)



DV Model-Shift Uniqueness Test

004850763-02, P = 18.342655 Days, E = 141.268667 Days

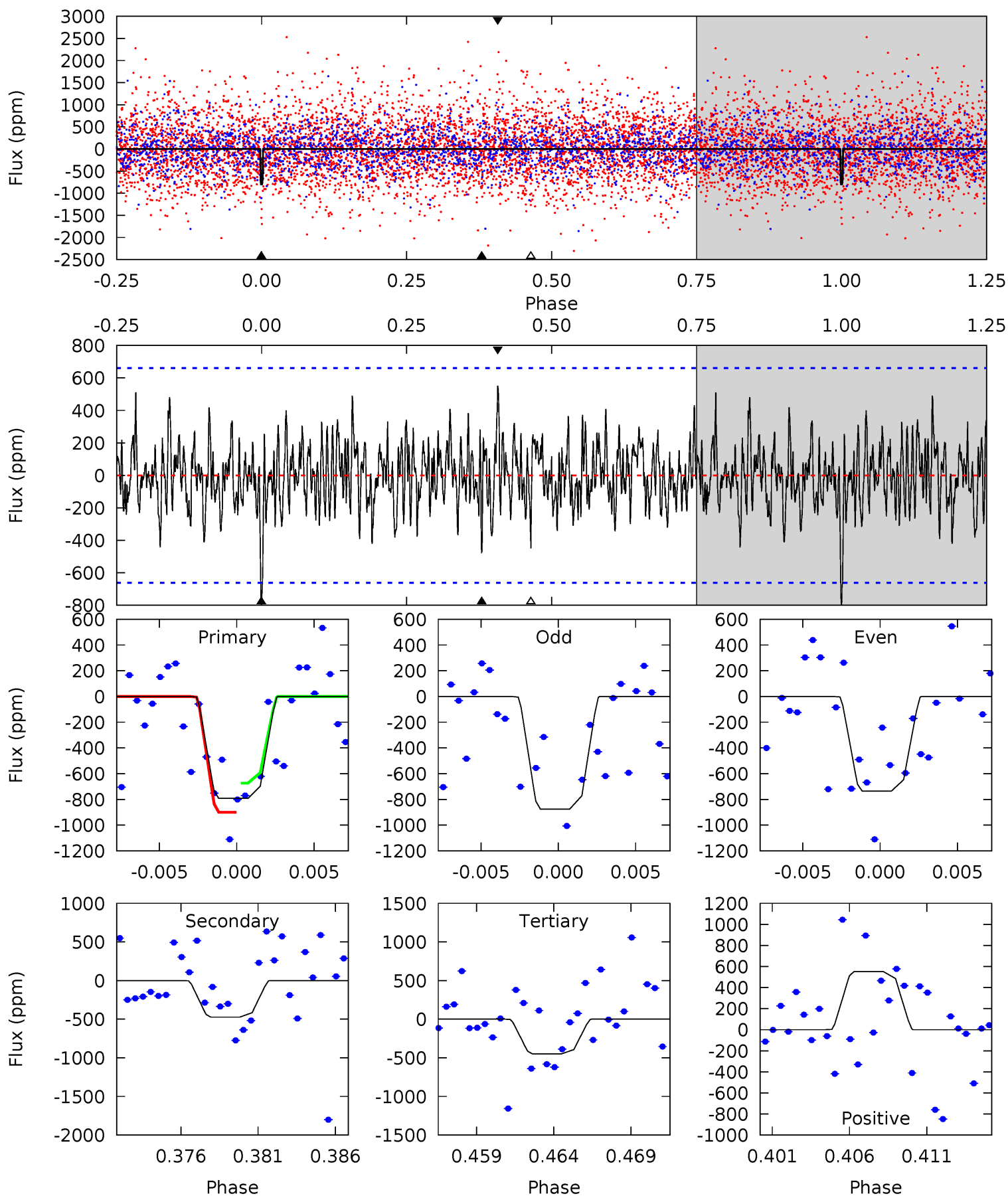
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.89	4.06	3.82	3.84	5.06	2.64	1.25	2.07	2.05	0.24	0.22	1.23	0.82	0.39	0.84



Alt Model-Shift Uniqueness Test

004850763-02, P = 18.342697 Days, E = 141.263347 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.19	3.69	3.50	4.31	5.16	2.81	1.25	2.69	1.88	0.19	-0.62	0.54	1.07	0.41	0.89



Stellar Parameters For KIC 004850763

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6077^{+189}_{-210}	$4.471^{+0.055}_{-0.176}$	$-0.040^{+0.250}_{-0.300}$	$0.999^{+0.247}_{-0.114}$	$1.077^{+0.126}_{-0.153}$	$1.519^{+0.367}_{-0.730}$
	+3%/-3%	+1%/-4%	+625%/-750%	+25%/-11%	+12%/-14%	+24%/-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 004850763-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-369 ± 91	$2.79^{+1.89}_{-1.64}$	1024^{+67}_{-50}	5398^{+3497}_{-1089}	495^{+2504}_{-326}
Alt.	-472 ± 128	$3.40^{+2.34}_{-1.65}$	1022^{+63}_{-51}	5149^{+2154}_{-934}	406^{+1241}_{-261}

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

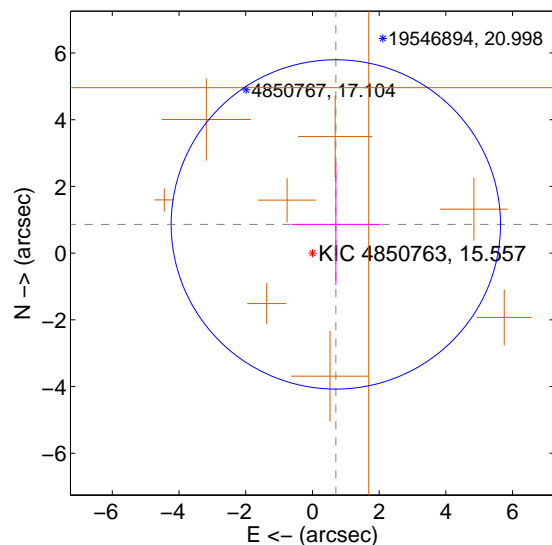
Supplemental centroid analysis for 004850763-02. Kepler magnitude: 15.56. Transit SNR 7.67

There are 0 quarters with good PRF difference image offsets

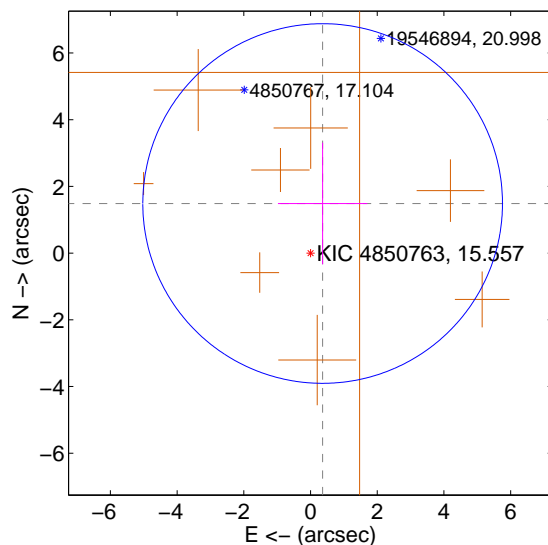
The direct PRF centroid is offset from the target star catalog position by about 0.81 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.110 ± 1.646	0.67	-0.702 ± 1.340	0.860 ± 1.821
PRF-fit source offset from KIC position	1.531 ± 1.797	0.85	-0.363 ± 1.340	1.487 ± 1.821
photometric centroid source offset	0.88 ± 1.02	0.87	0.72 ± 1.06	0.51 ± 0.94

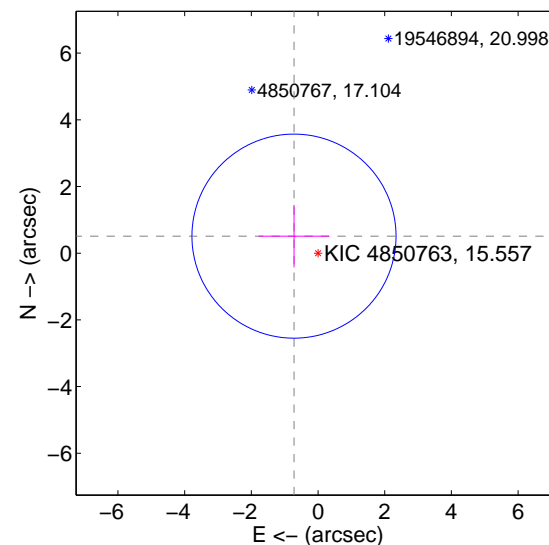
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

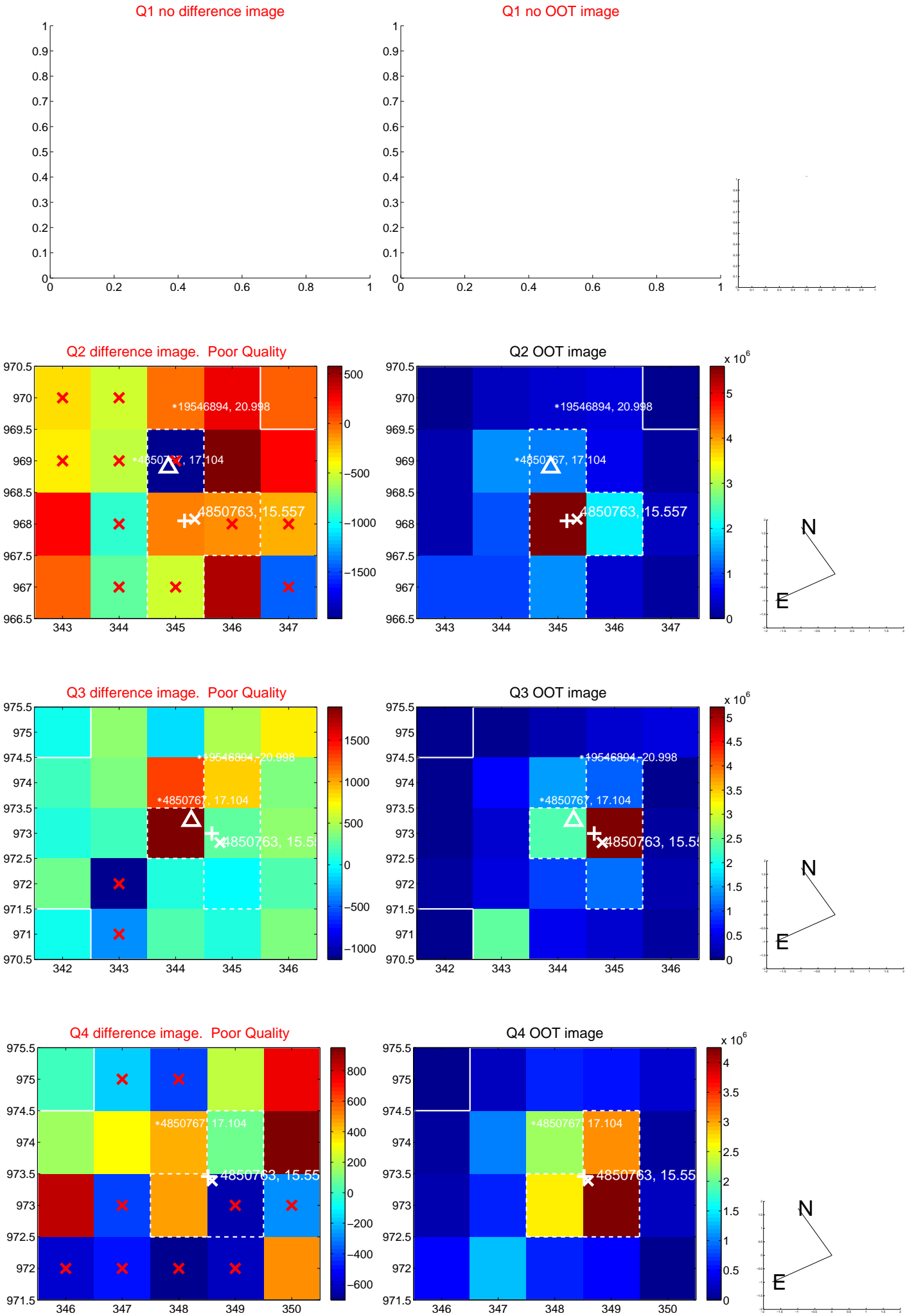


offset from photometric centroids

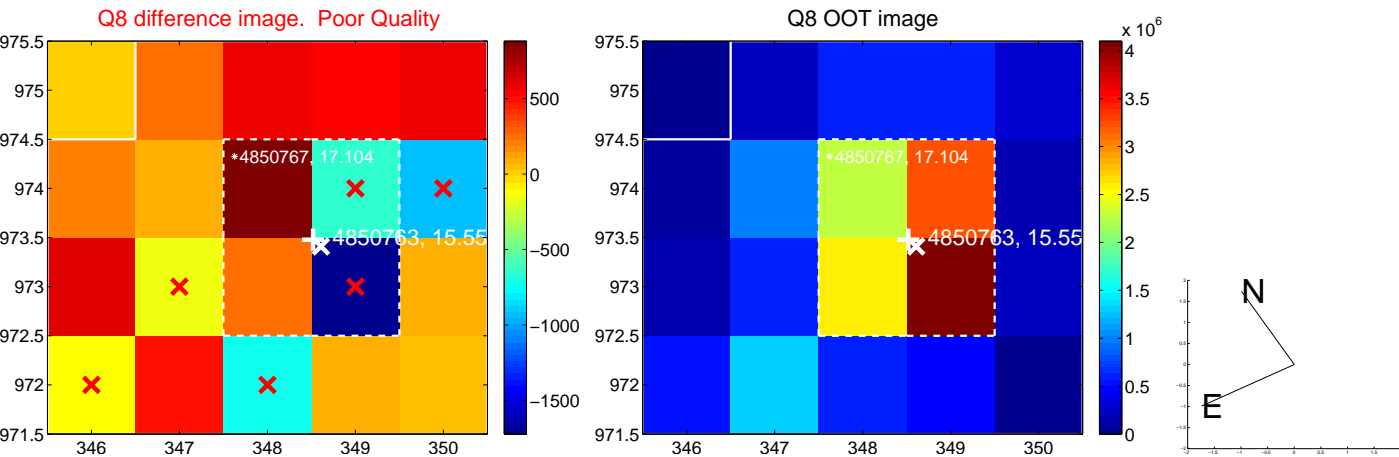
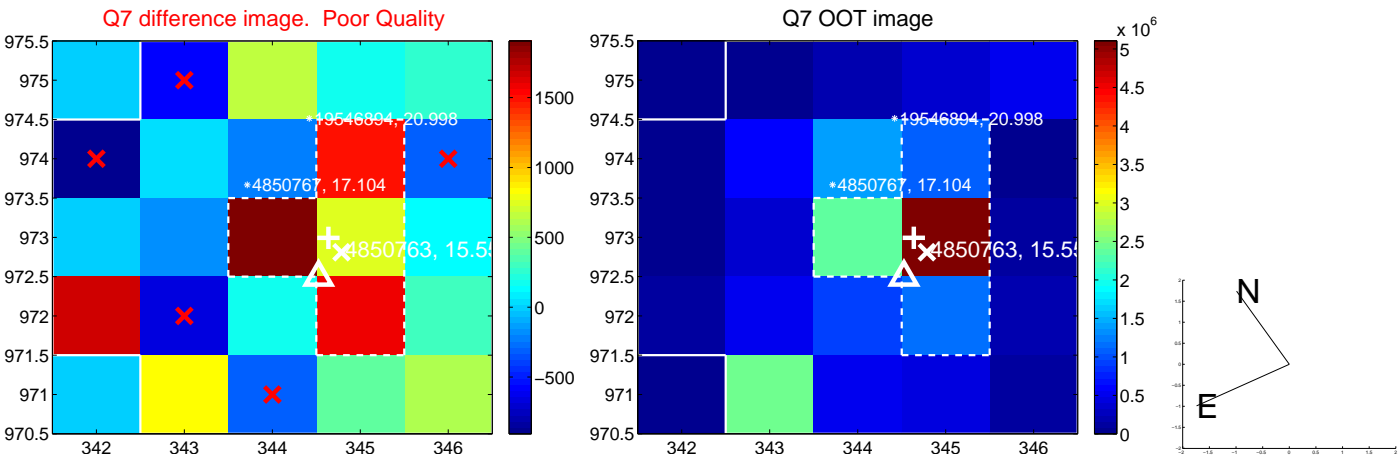
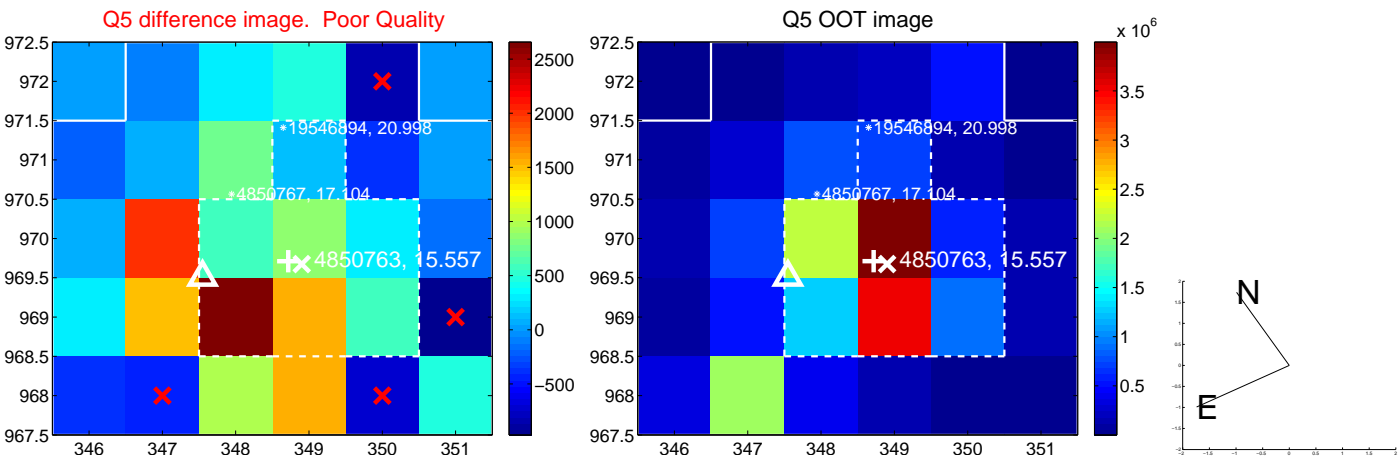


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

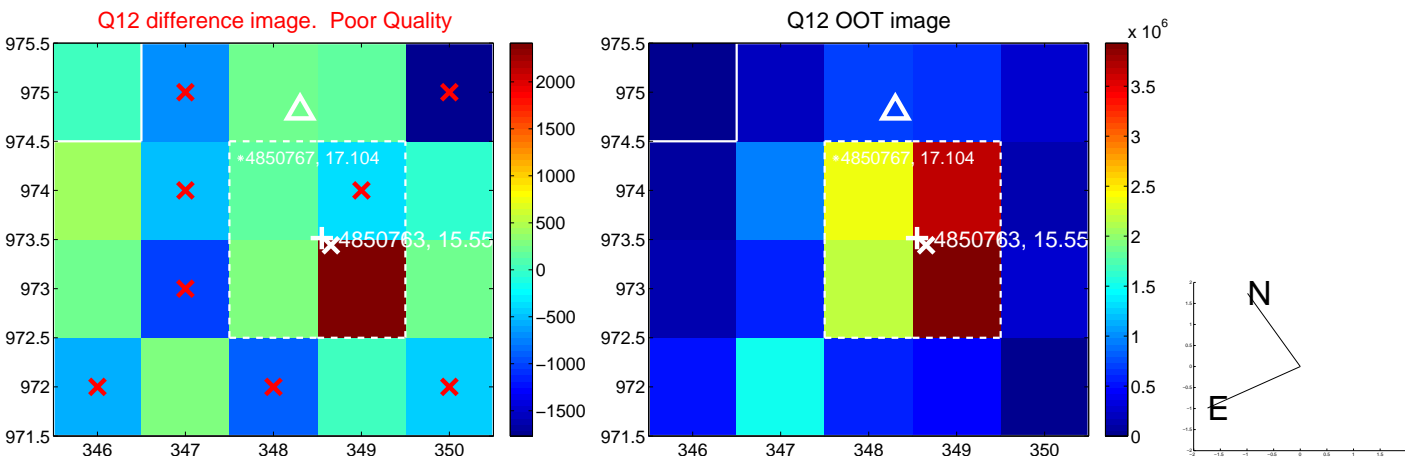
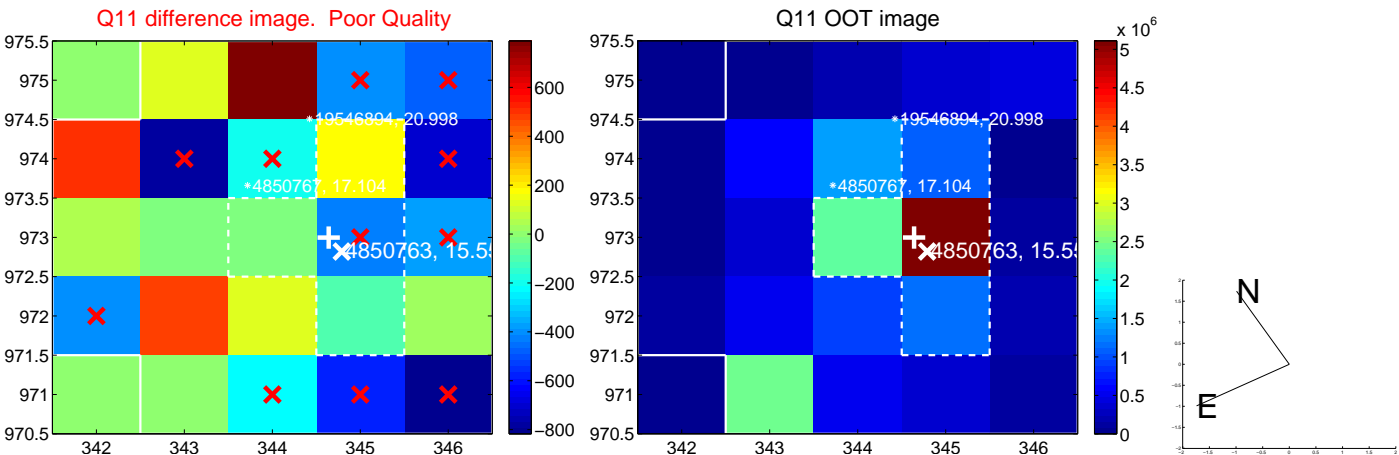
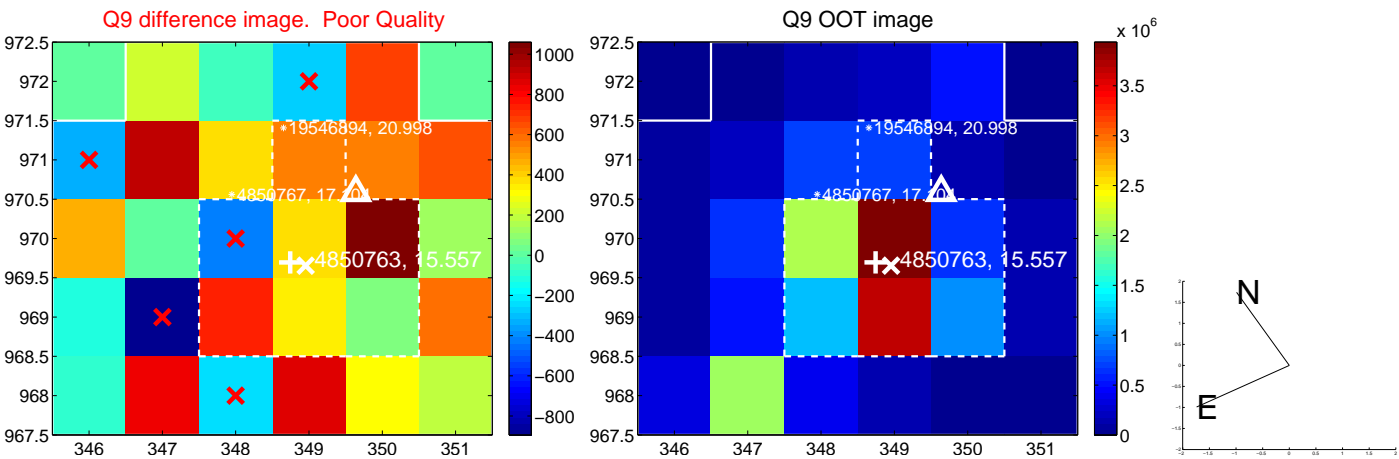
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



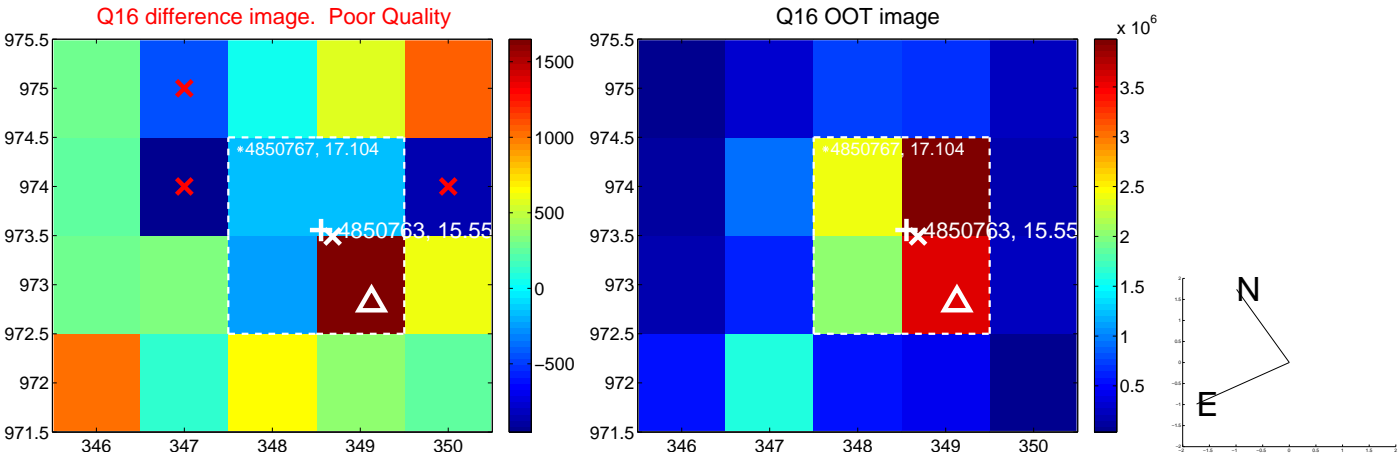
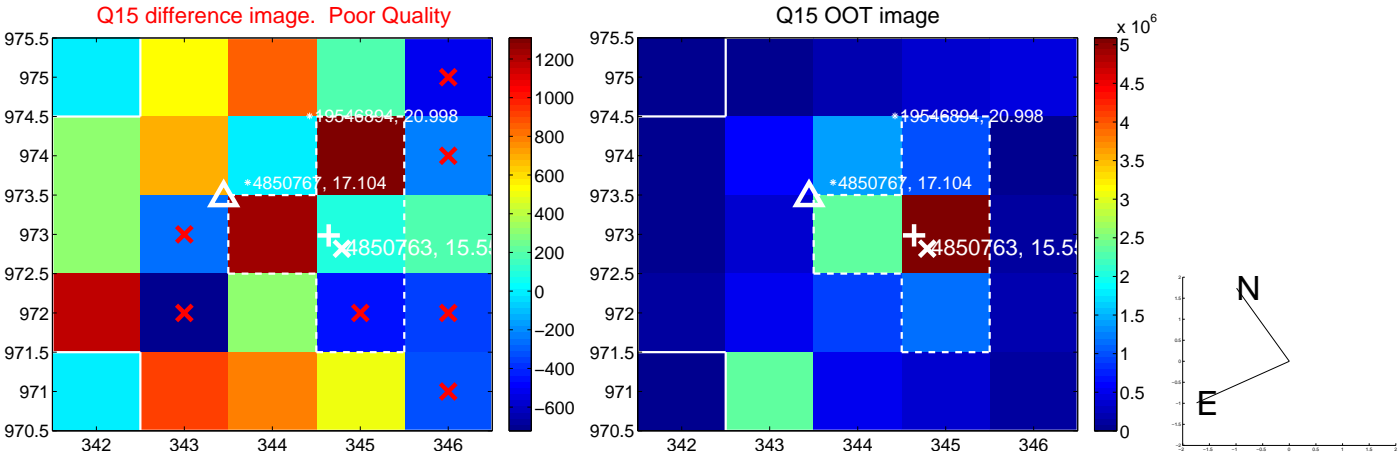
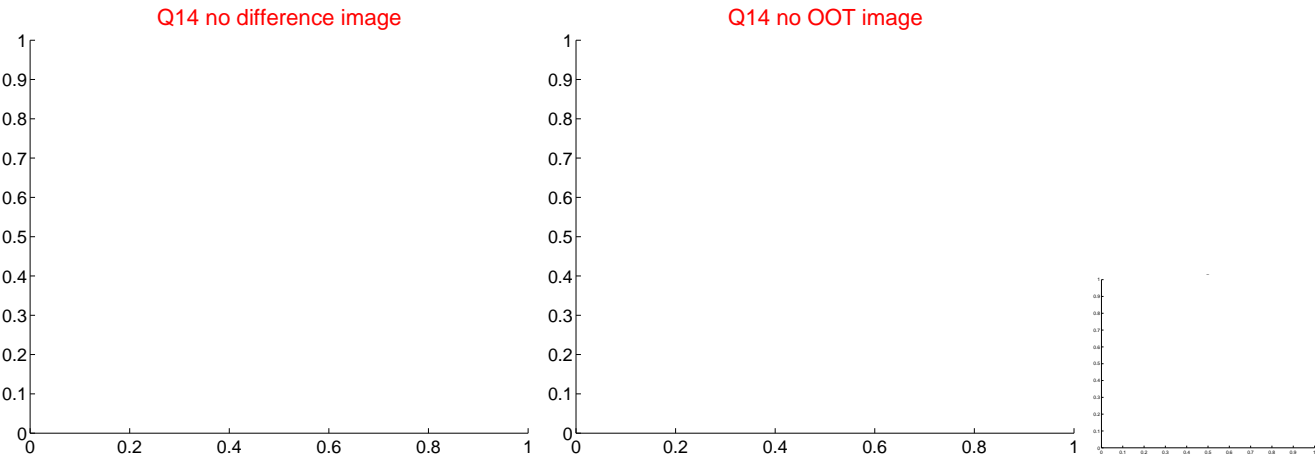
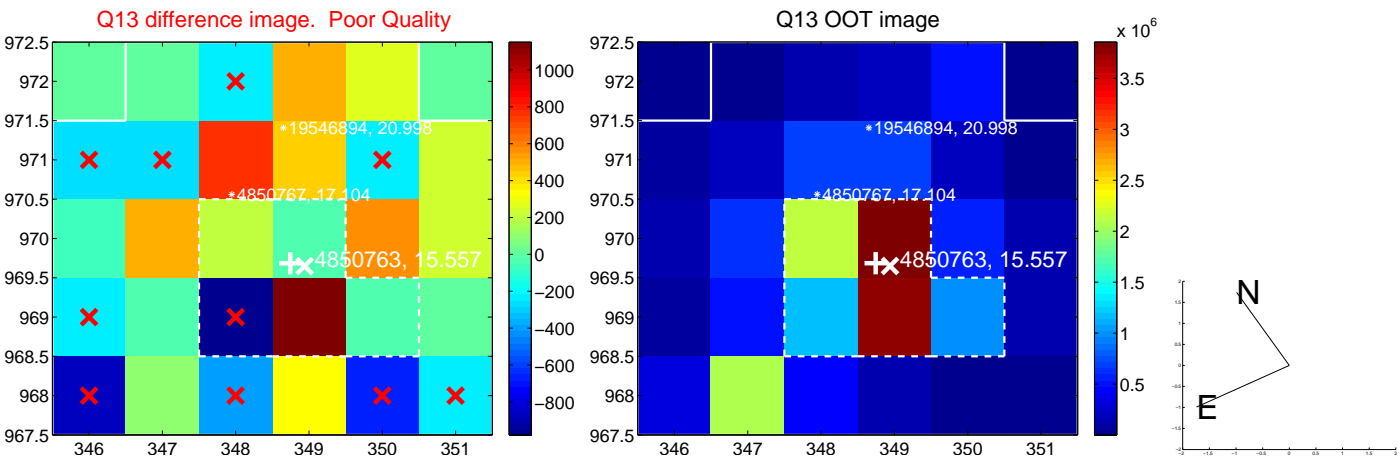
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



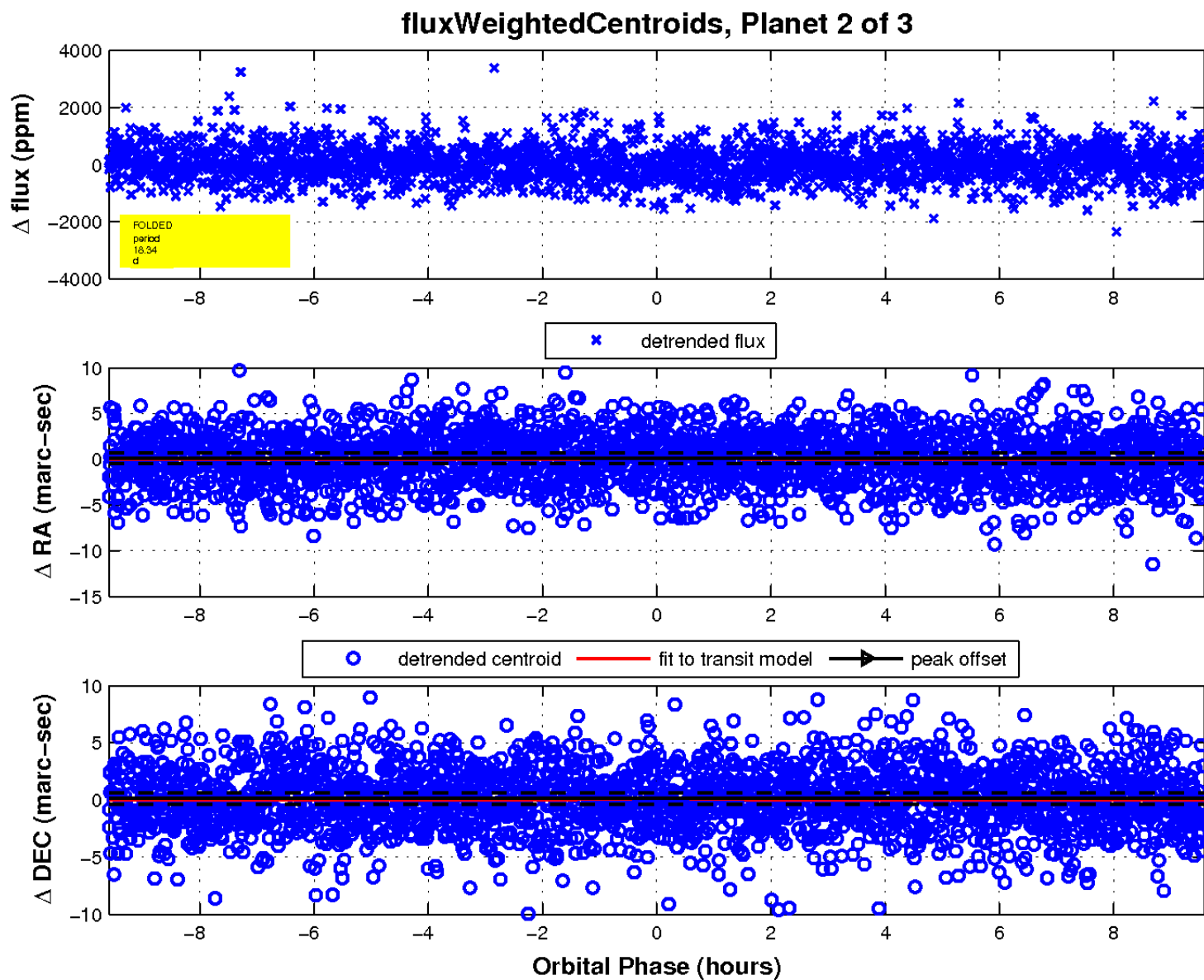
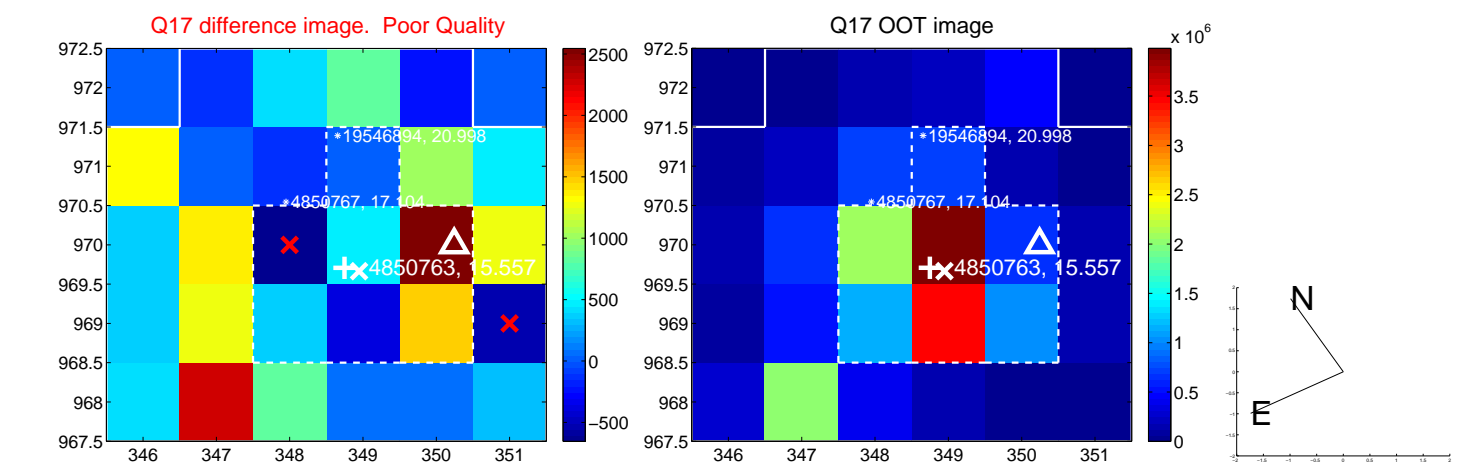
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

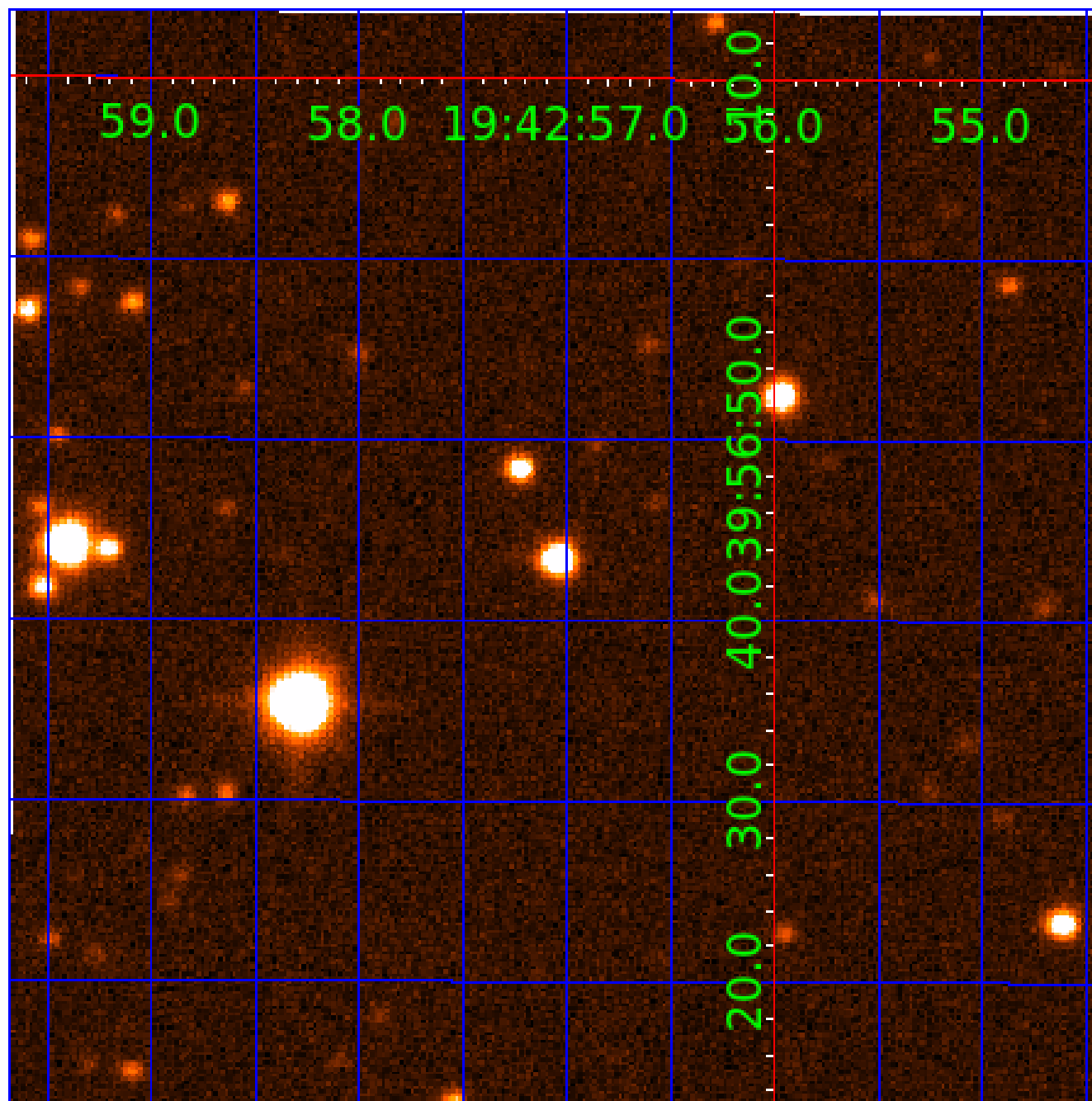


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 004850763

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})
004850763-01	OBS	No	0.649011	132.048393	43.8	4.450	7.8	7.1	1.00	6077	0.66	5391.28
004850763-02	OBS	No	18.342655	141.268667	507.0	3.197	9.0	7.7	1.00	6077	2.57	62.62
004850763-03	OBS	No	64.199604	157.748233	933.8	4.840	7.7	8.1	1.00	6077	3.31	11.79

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004850763-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_FEW_DIFFS
004850763-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
004850763-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

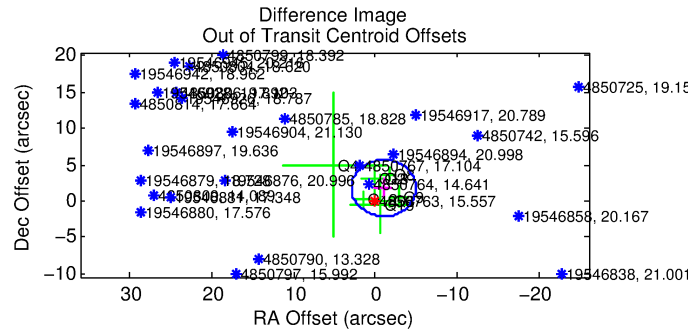
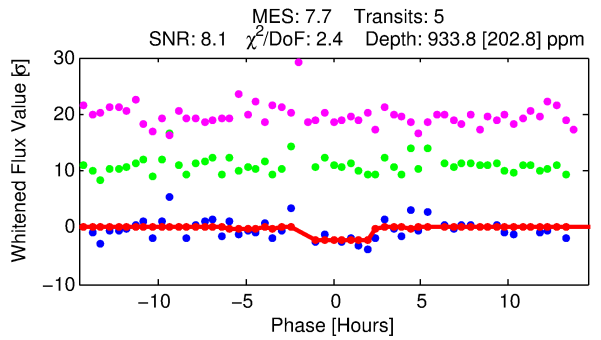
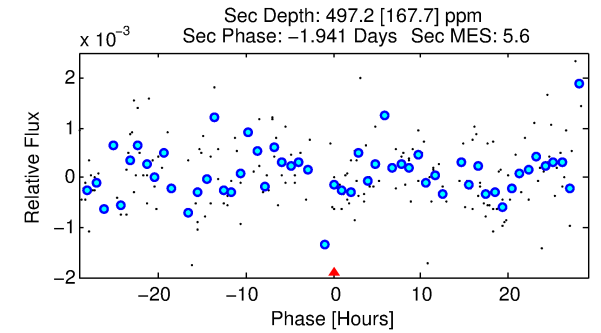
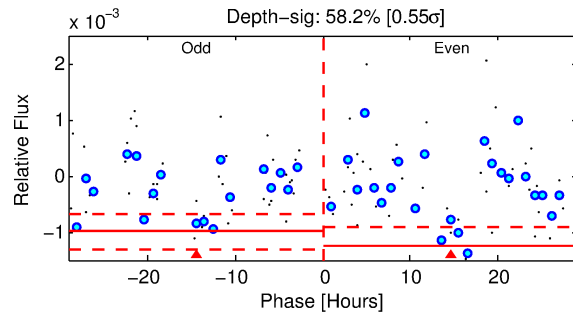
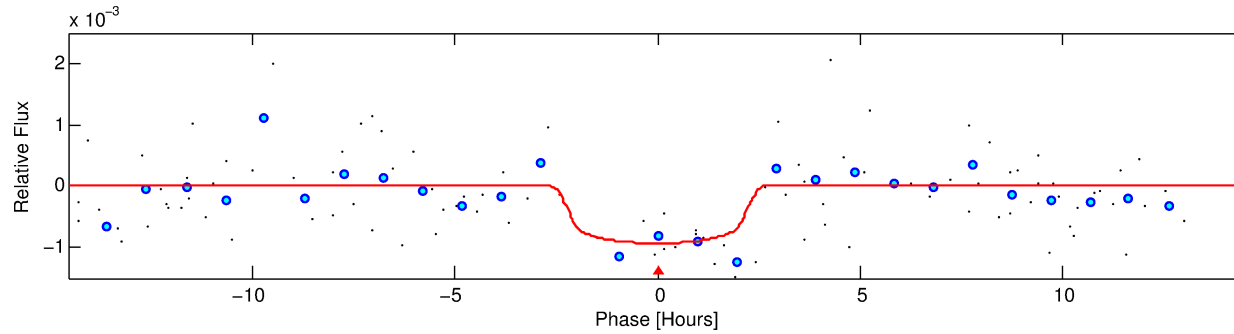
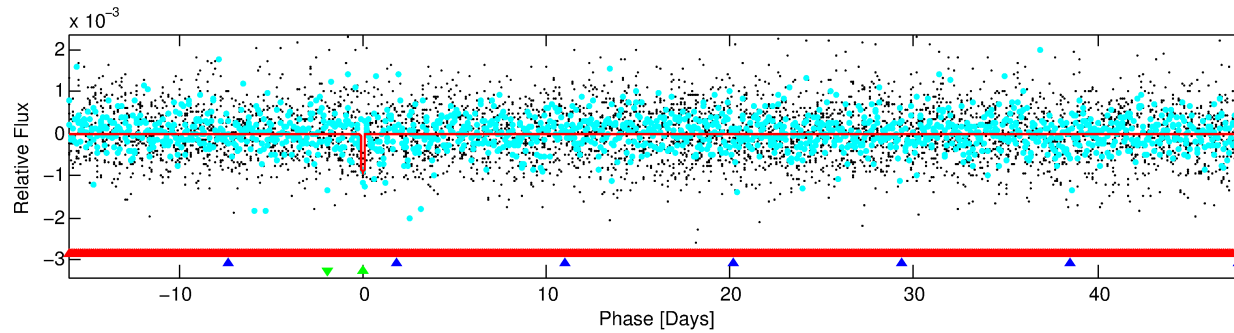
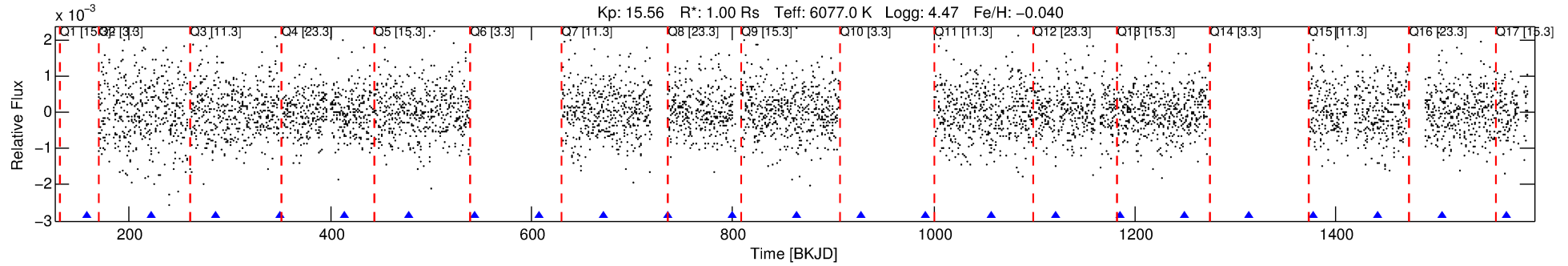
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004850763-03

No Significant Match Found

DV One-Page Summary

KIC: 4850763 Candidate: 3 of 3 Period: 64.200 d



DV Fit Results:

Period = 64.19960 [0.00681] d
Epoch = 157.7482 [0.0895] BKJD
Rp/R* = 0.0303 [0.0639]
a/R* = 72.53 [739.87]
b = 0.74 [6.21]
Seff = 11.78 [4.07]
Teq = 472 [41] K
Rp = 3.30 [7.01] Re
a = 0.3217 [0.0686] AU
Ag = 2591.20 [10983.00] [0.24 σ]
Teffp = 5212 [5510] K [0.86 σ]

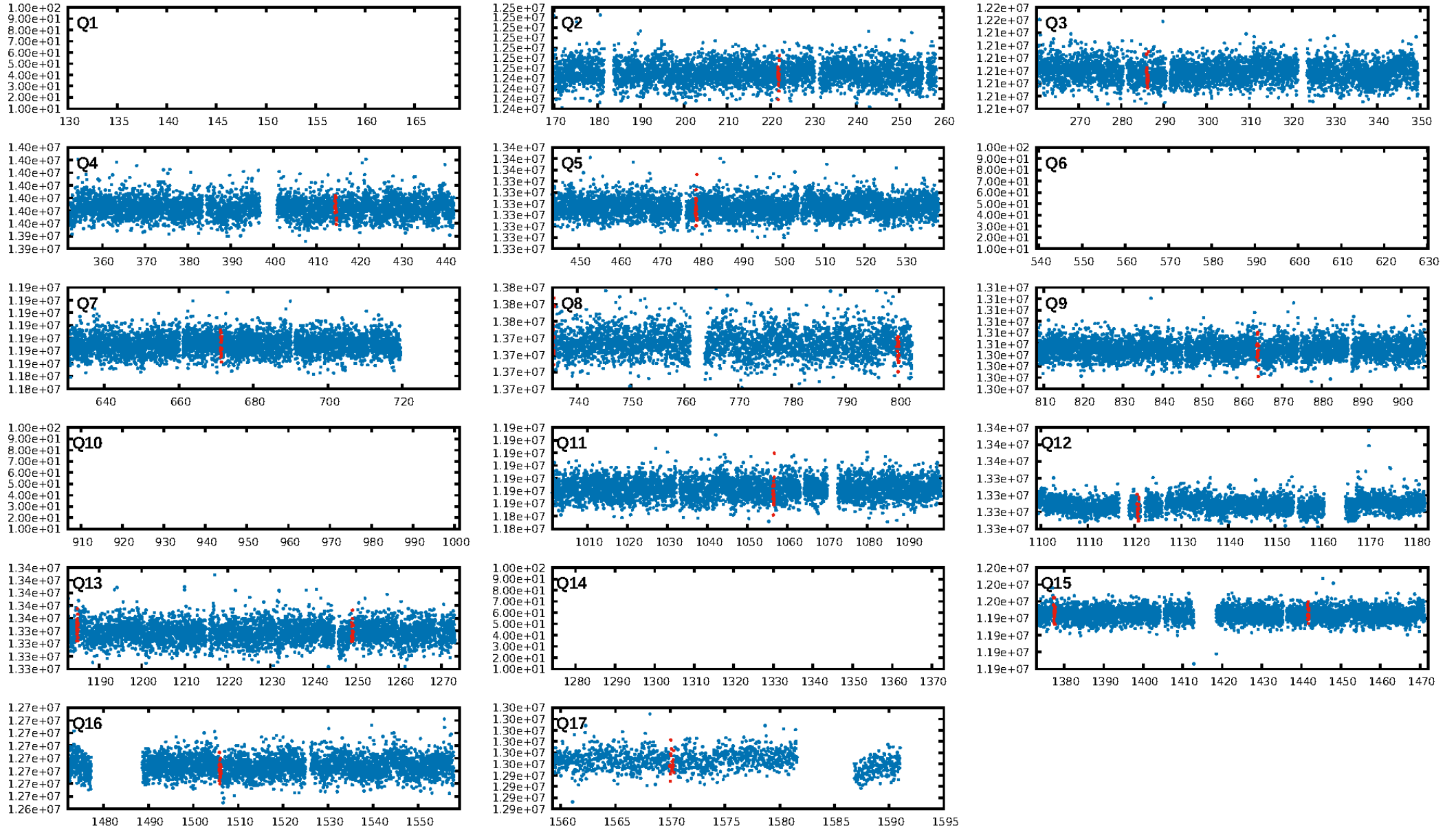
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [189.74 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 72.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 7.04e-09
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 0.406
Centroid-sig: 60.0%
Centroid-so: 0.994 arcsec [1.25 σ]
OotOffset-rm: 2.023 arcsec [1.56 σ]
OotOffset-st: 1/2/3/2 [8]
KicOffset-rm: 2.293 arcsec [1.68 σ]
KicOffset-st: 1/2/3/2 [8]
DiffImageQuality-fgm: 0.12 [1/8]
DiffImageOverlap-fno: 0.00 [0/12]

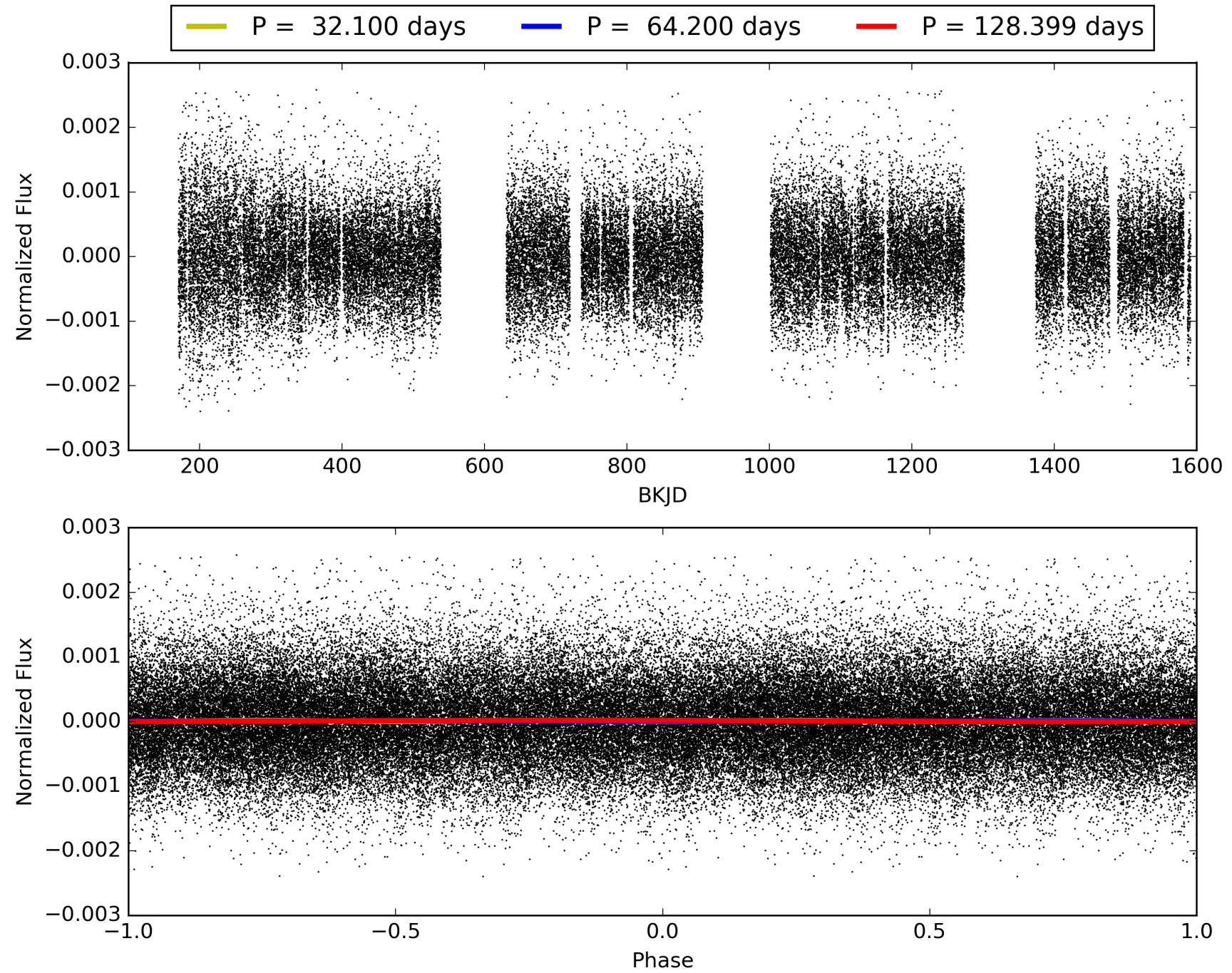
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 08:11:20 Z

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

TCE 004850763-03, PDC Light Curves

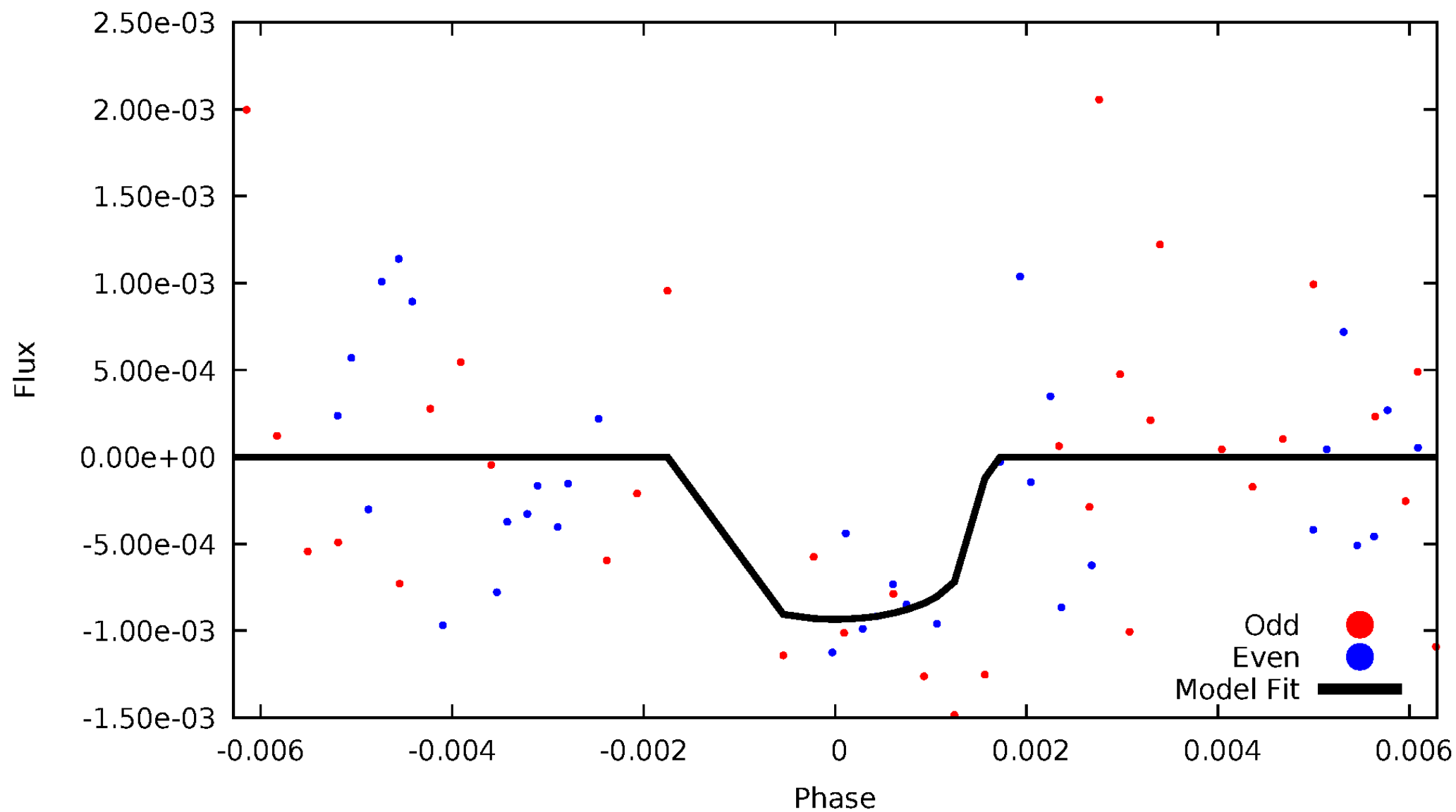


TCE 004850763-03



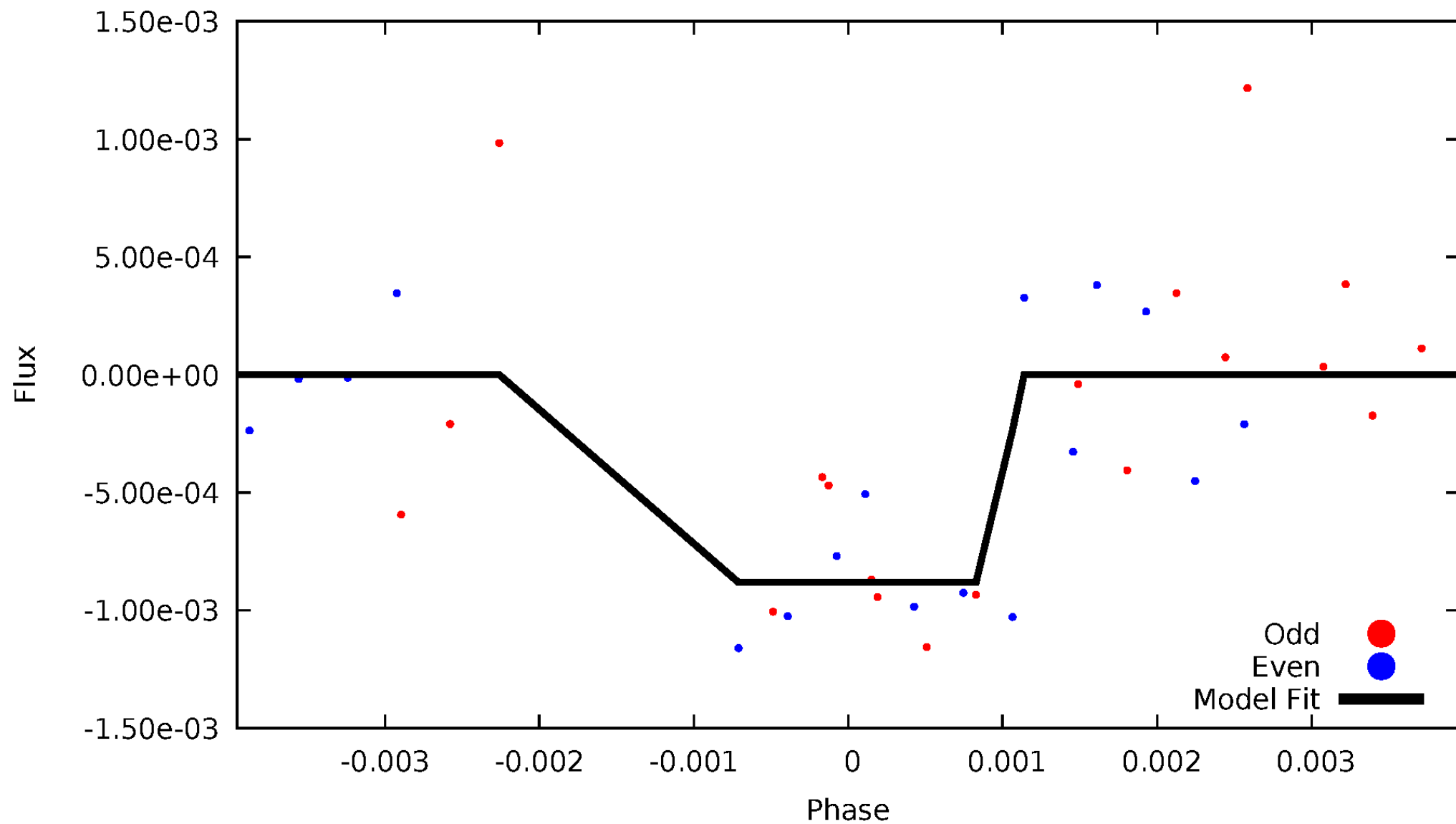
DV Odd/Even

TCE 004850763-03



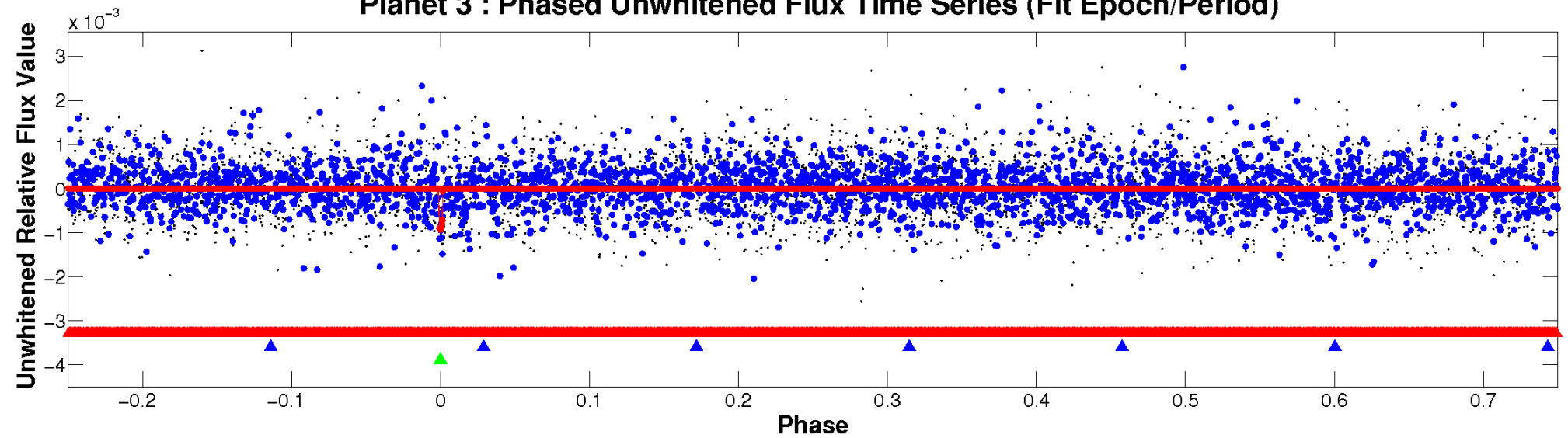
ALT Odd/Even

TCE 004850763-03

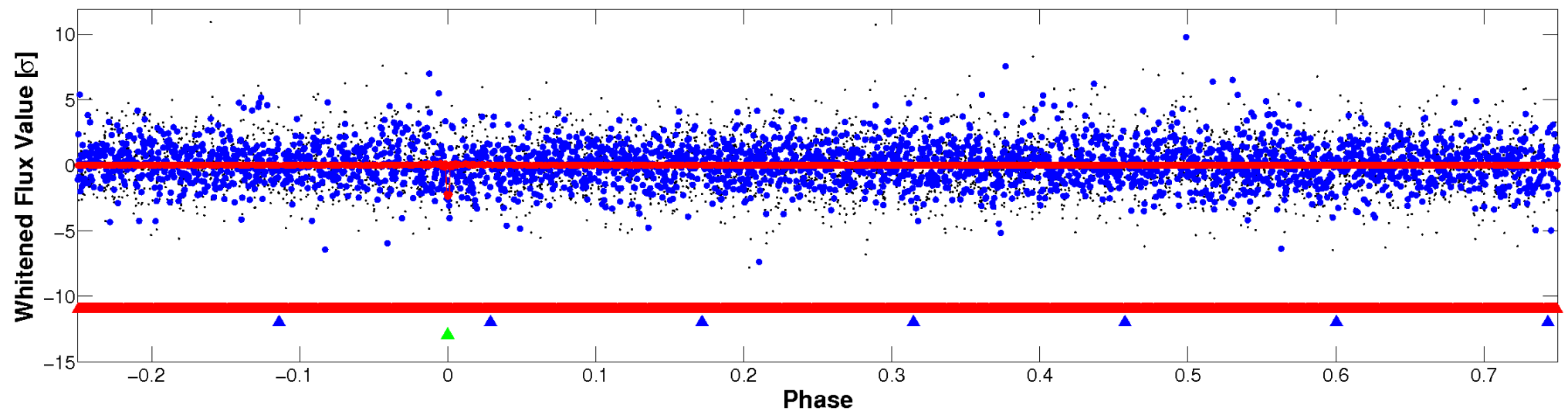


Non-Whitened Vs. Whitened Light Curve

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

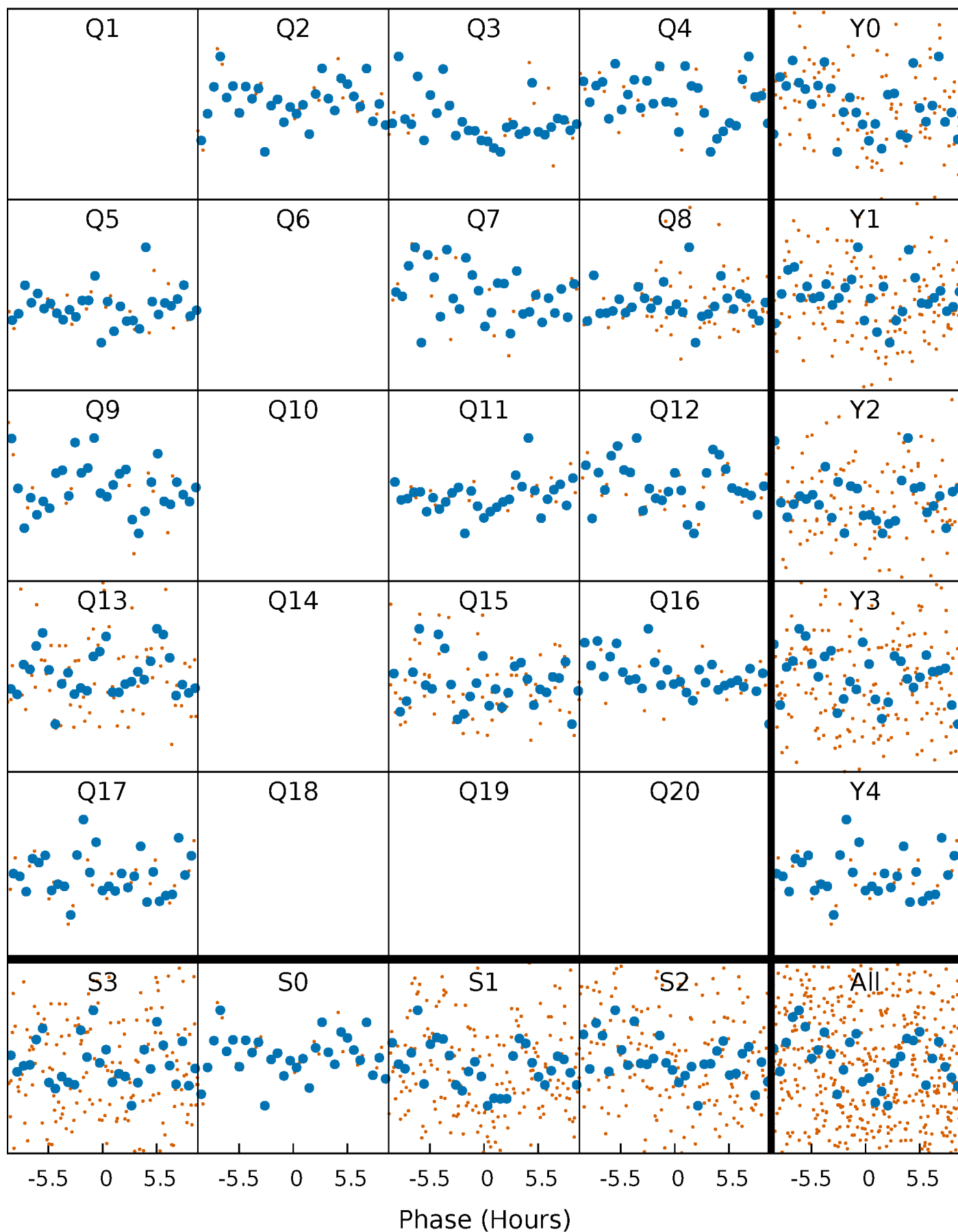


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



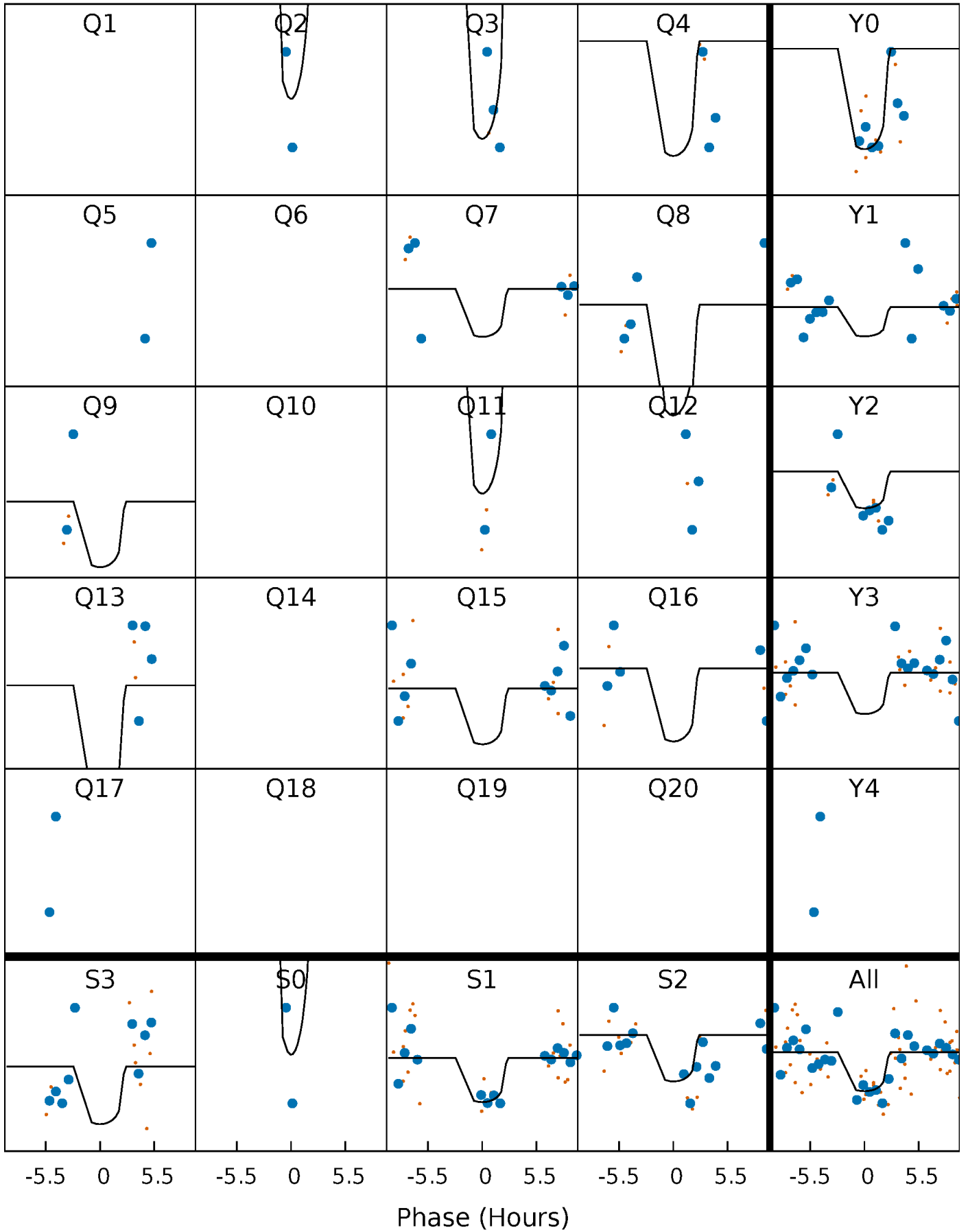
PDC Quarter-Phased Transit Curves

TCE 004850763-03 P= 64.199604 Days $T_0=157.748233$ (BKJD)



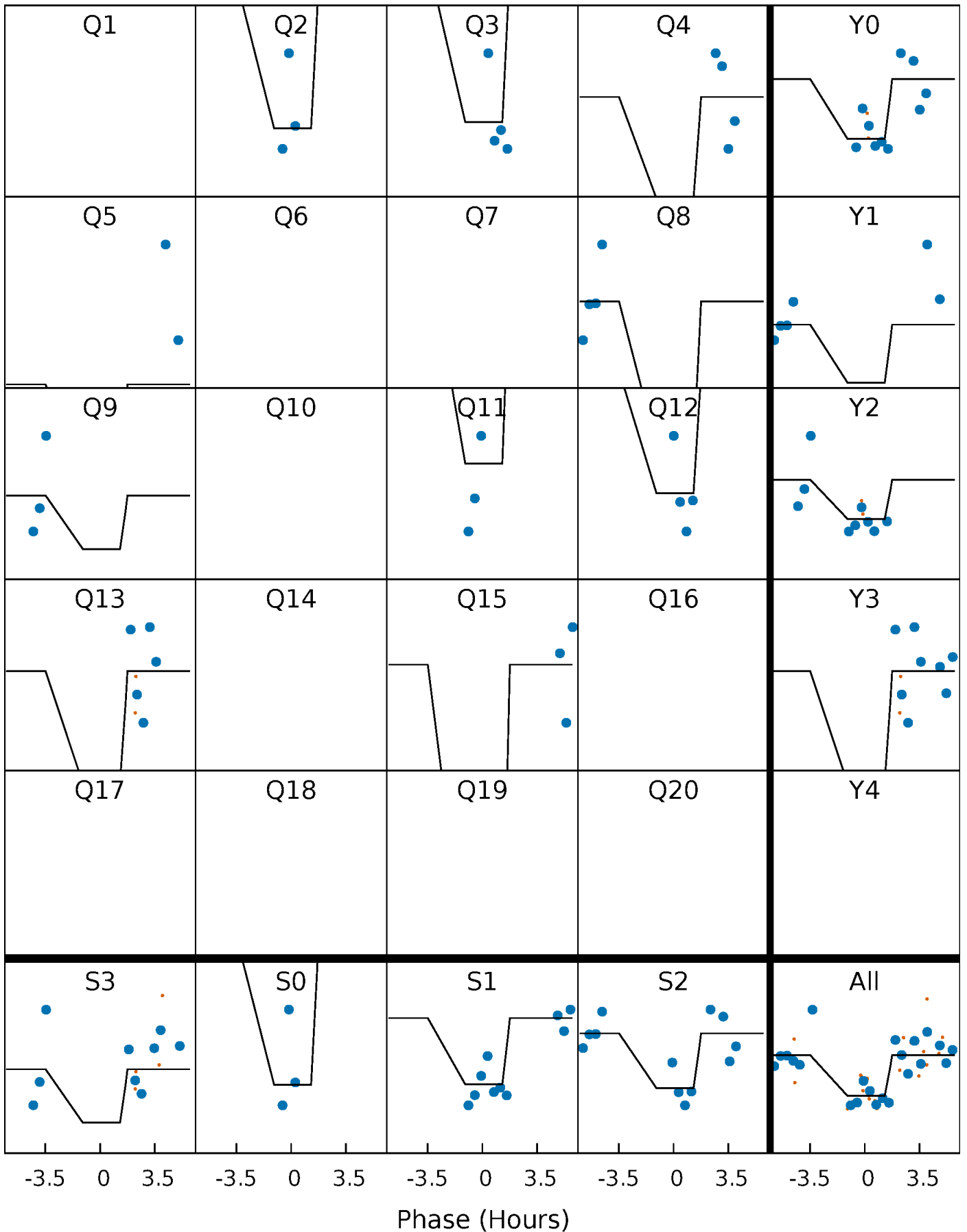
DV Quarter-Phased Transit Curves

TCE 004850763-03 P= 64.199604 Days $T_0=157.748233$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

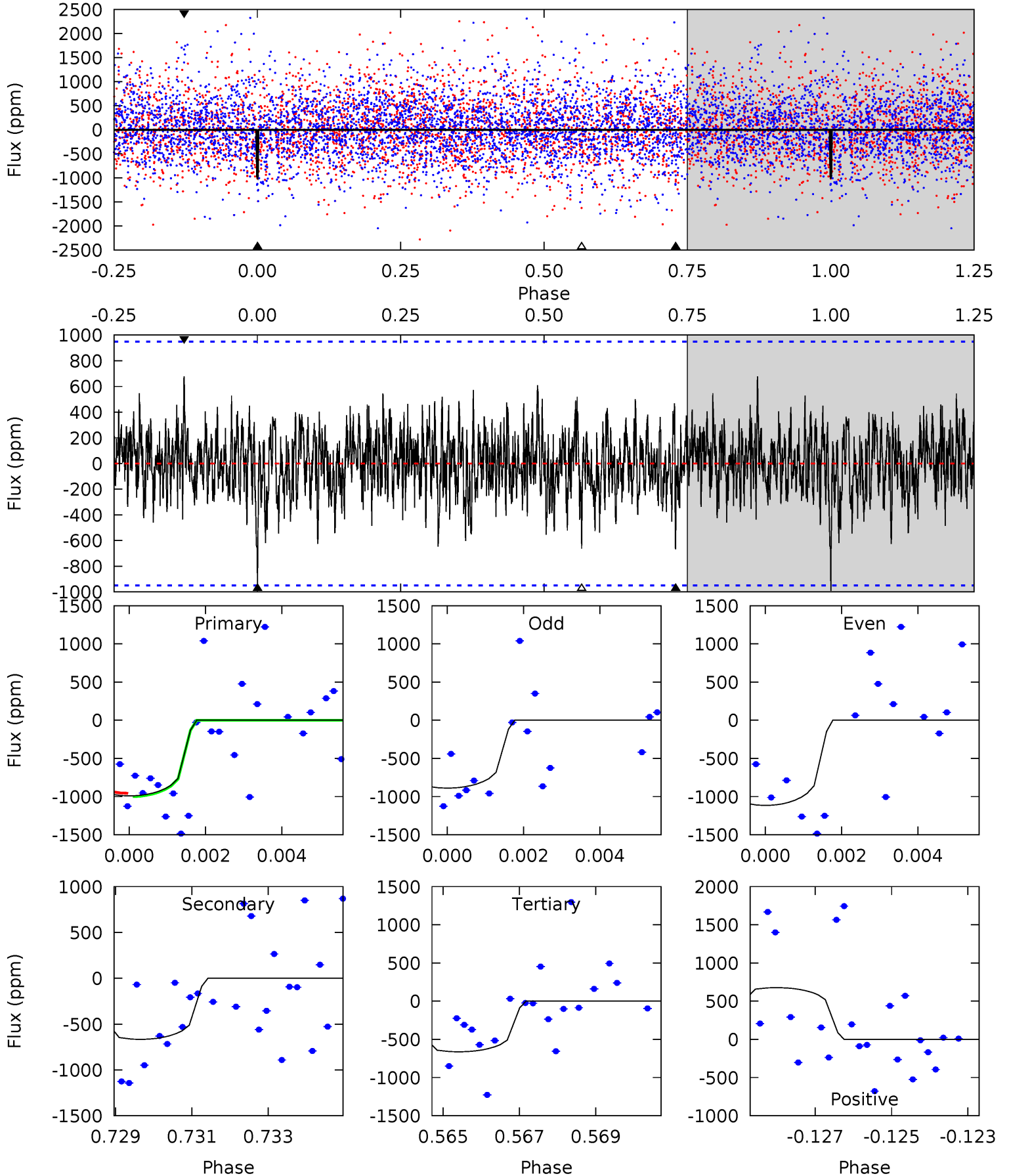
TCE 004850763-03 P= 64.203236 Days $T_0=157.741025$ (BKJD)



DV Model-Shift Uniqueness Test

004850763-03, P = 64.199604 Days, E = 157.748233 Days

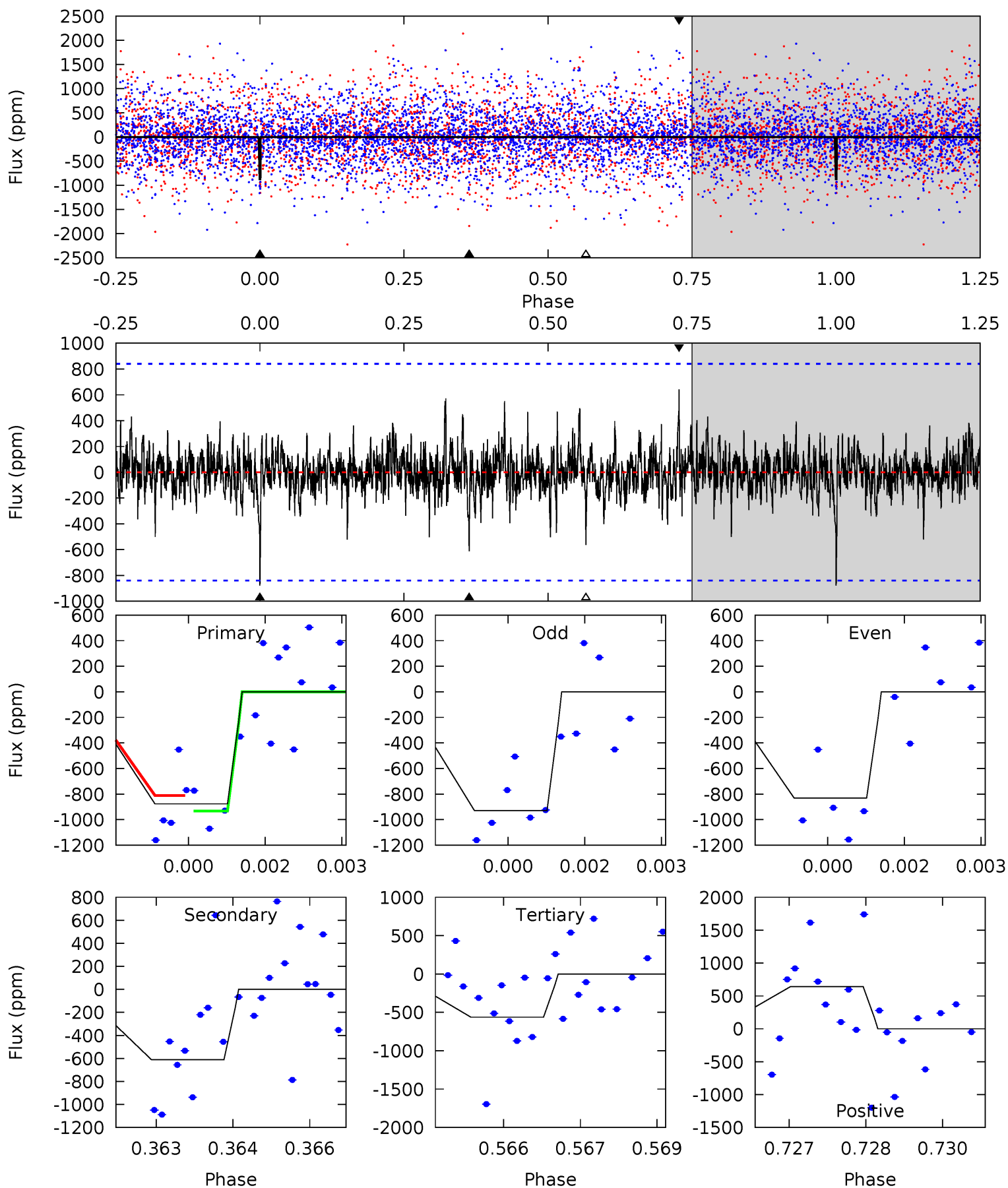
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.56	3.74	3.72	3.80	5.33	3.10	1.13	1.84	1.76	0.02	-0.06	0.63	1.08	0.41	0.07



Alt Model-Shift Uniqueness Test

004850763-03, P = 64.203236 Days, E = 157.741025 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.60	3.90	3.59	4.10	5.36	3.15	0.89	2.01	1.50	0.31	-0.20	0.32	1.00	0.42	0.37



Stellar Parameters For KIC 004850763

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6077^{+189}_{-210}	$4.471^{+0.055}_{-0.176}$	$-0.040^{+0.250}_{-0.300}$	$0.999^{+0.247}_{-0.114}$	$1.077^{+0.126}_{-0.153}$	$1.519^{+0.367}_{-0.730}$
	+3%/-3%	+1%/-4%	+625%/-750%	+25%/-11%	+12%/-14%	+24%/-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 004850763-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-667 ± 178	$6.31^{+6.33}_{-4.22}$	673^{+44}_{-33}	4281^{+2882}_{-871}	878^{+7454}_{-645}
Alt.	-611 ± 156	$6.45^{+5.80}_{-4.29}$	674^{+41}_{-35}	4224^{+2617}_{-837}	785^{+6249}_{-574}

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

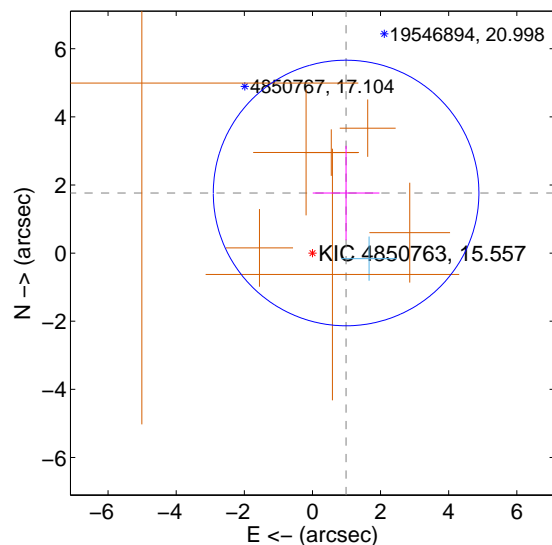
Supplemental centroid analysis for 004850763-03. Kepler magnitude: 15.56. Transit SNR 8.11

There are 1 quarters with good PRF difference image offsets

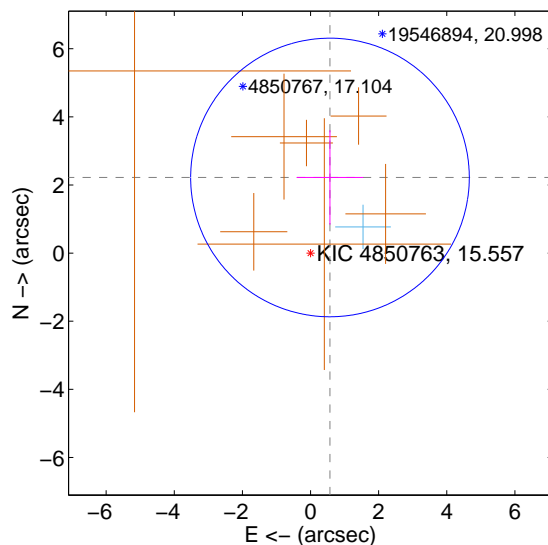
The direct PRF centroid is offset from the target star catalog position by about 0.91 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.023 ± 1.300	1.56	-0.988 ± 0.978	1.765 ± 1.385
PRF-fit source offset from KIC position	2.293 ± 1.363	1.68	-0.571 ± 0.978	2.220 ± 1.385
photometric centroid source offset	0.99 ± 0.79	1.25	0.42 ± 0.90	0.90 ± 0.77

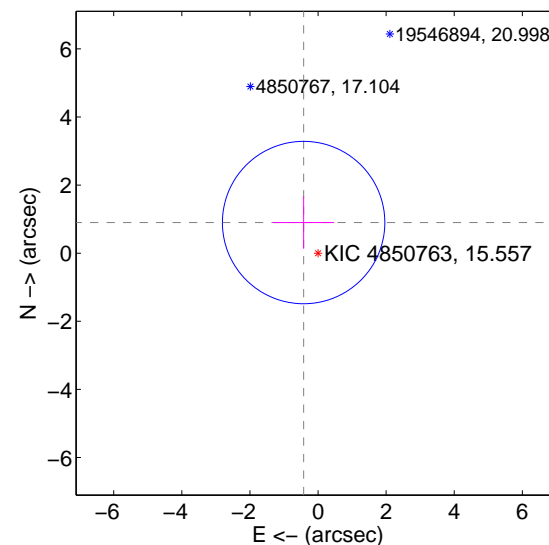
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

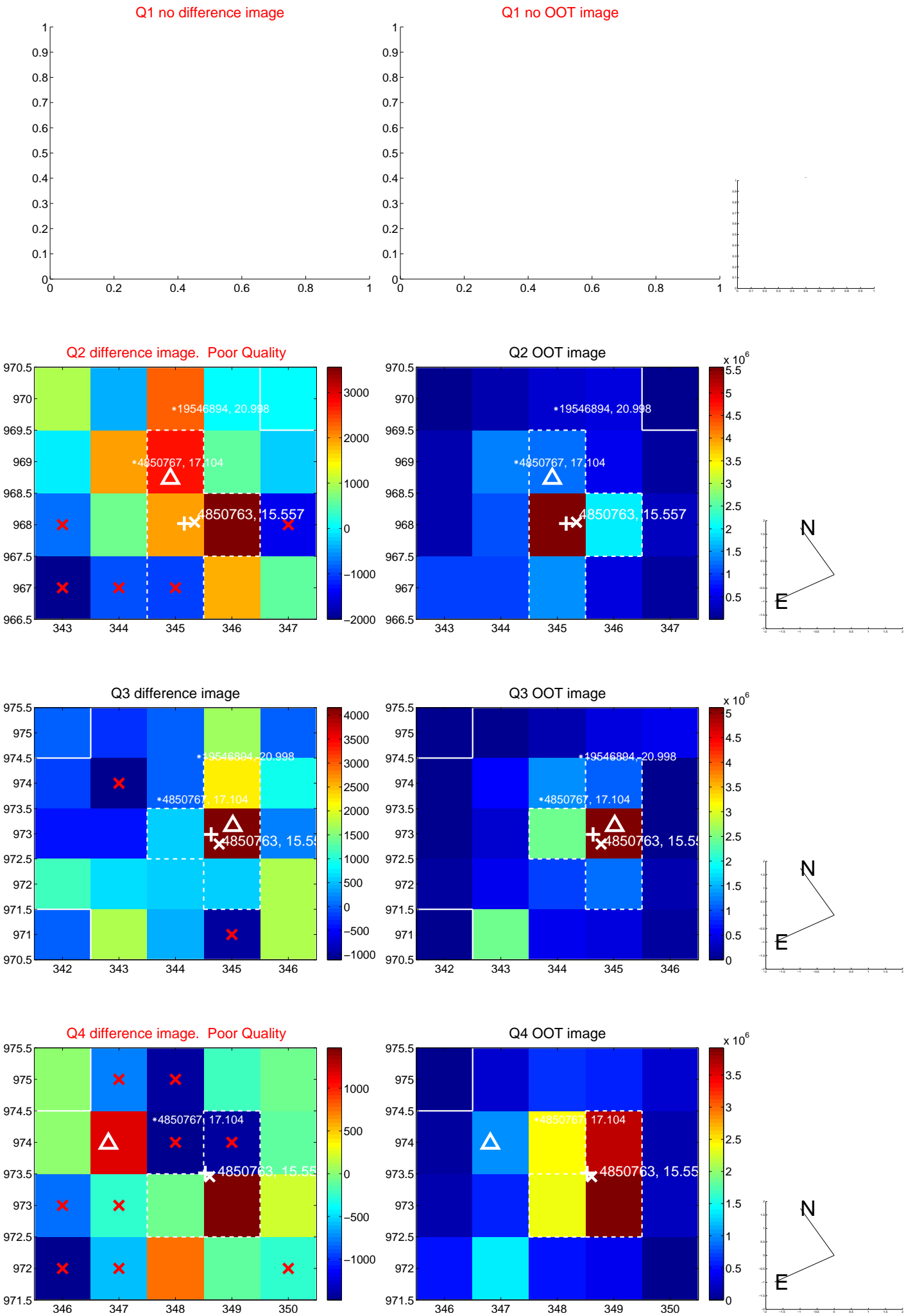


offset from photometric centroids

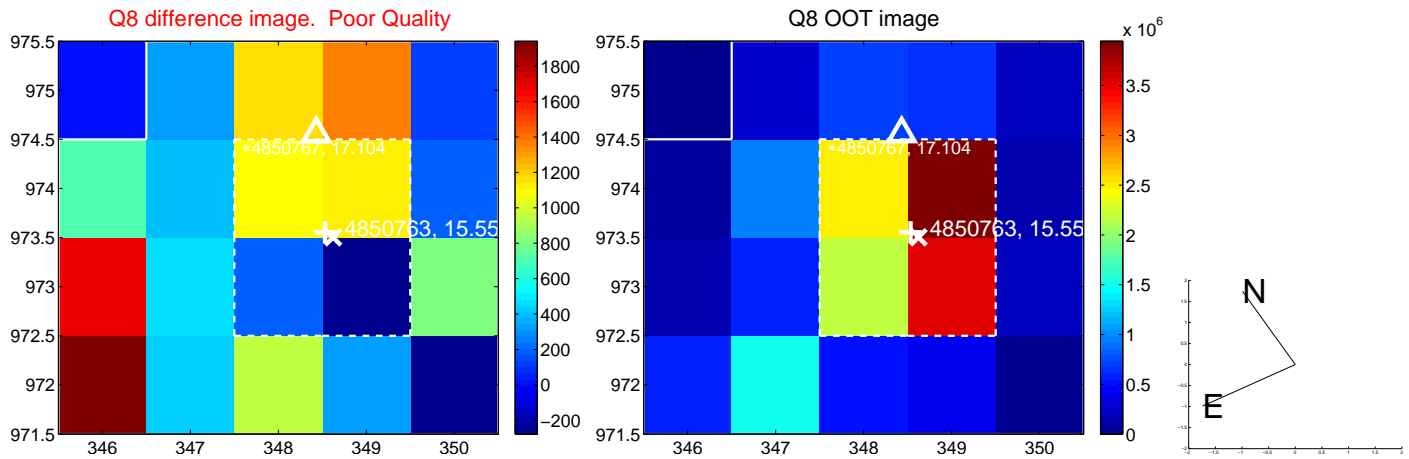
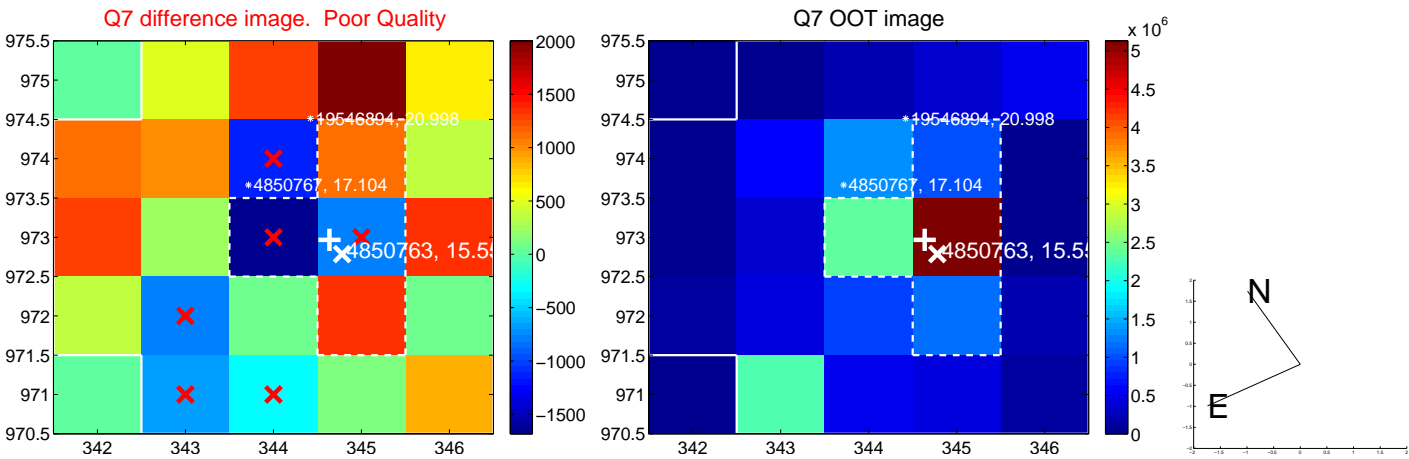
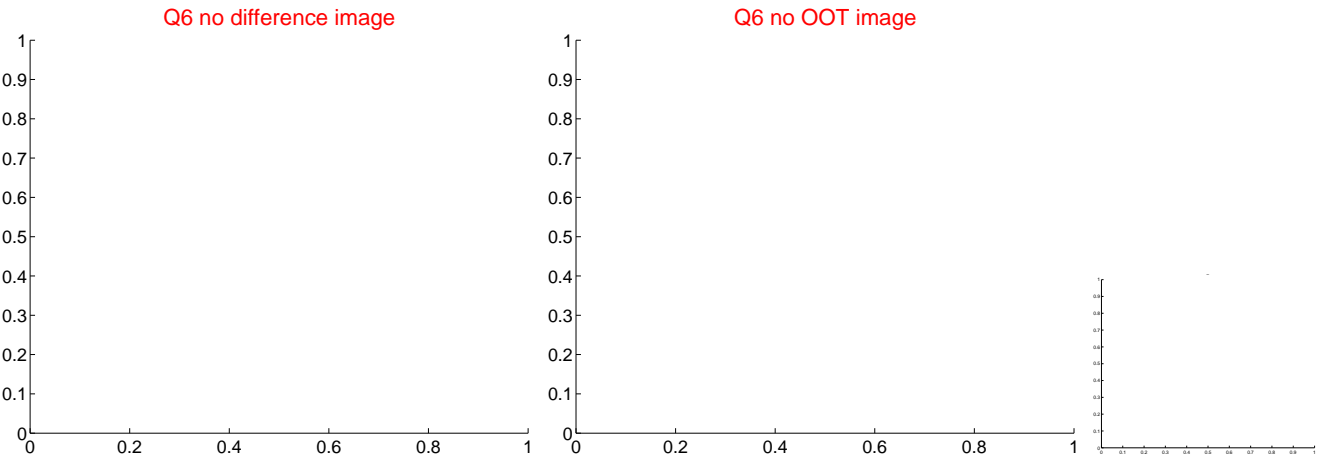
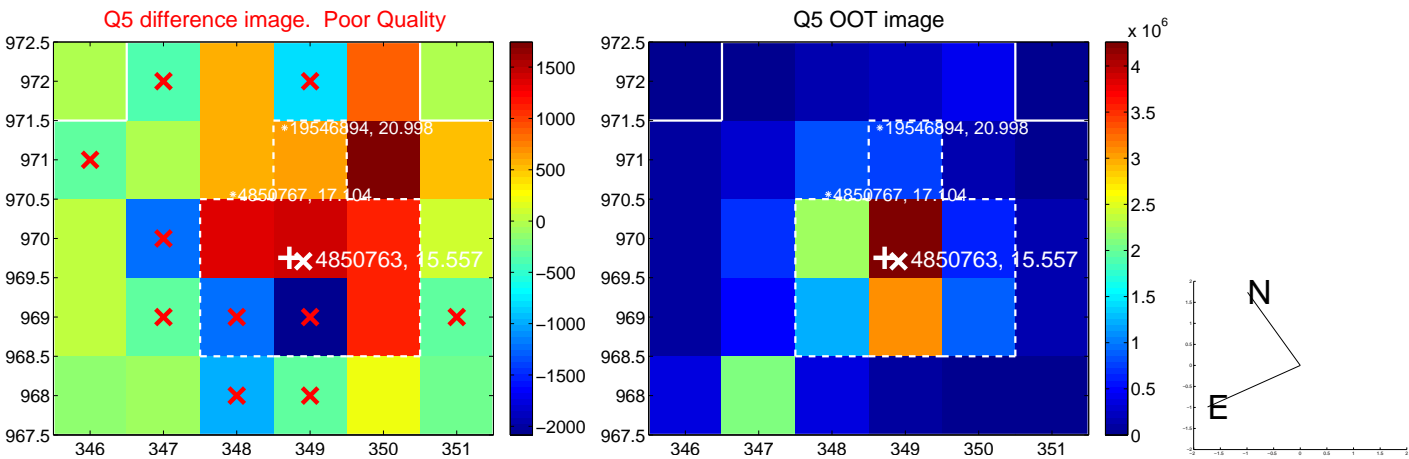


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

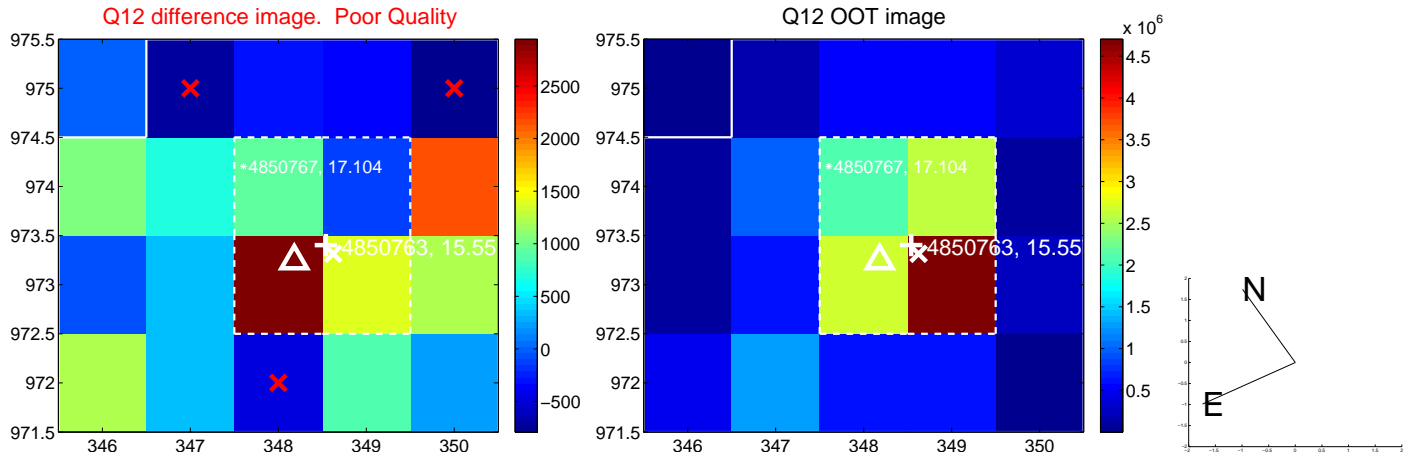
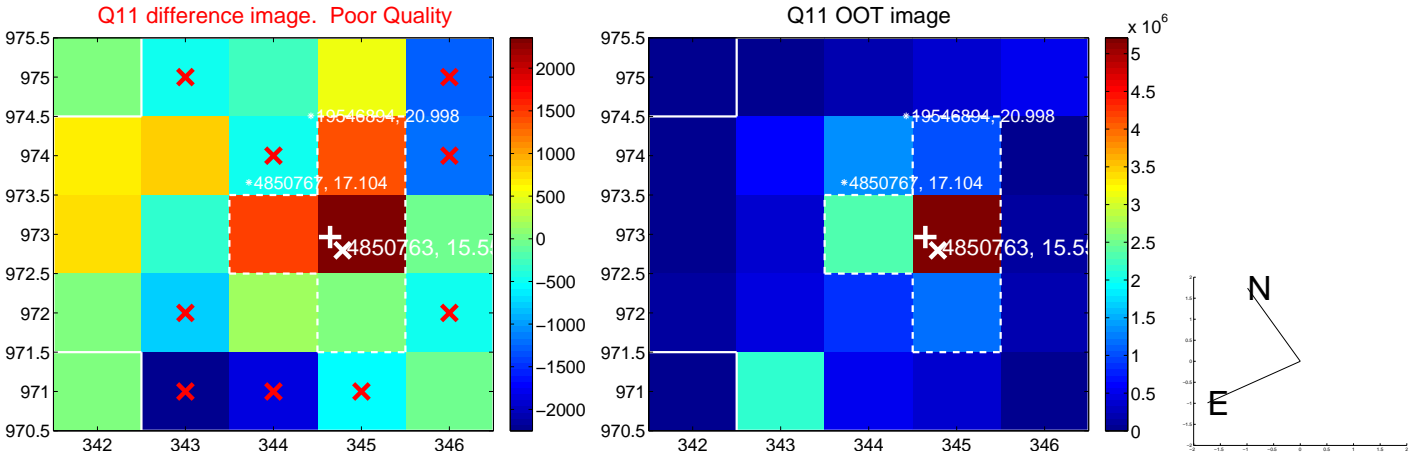
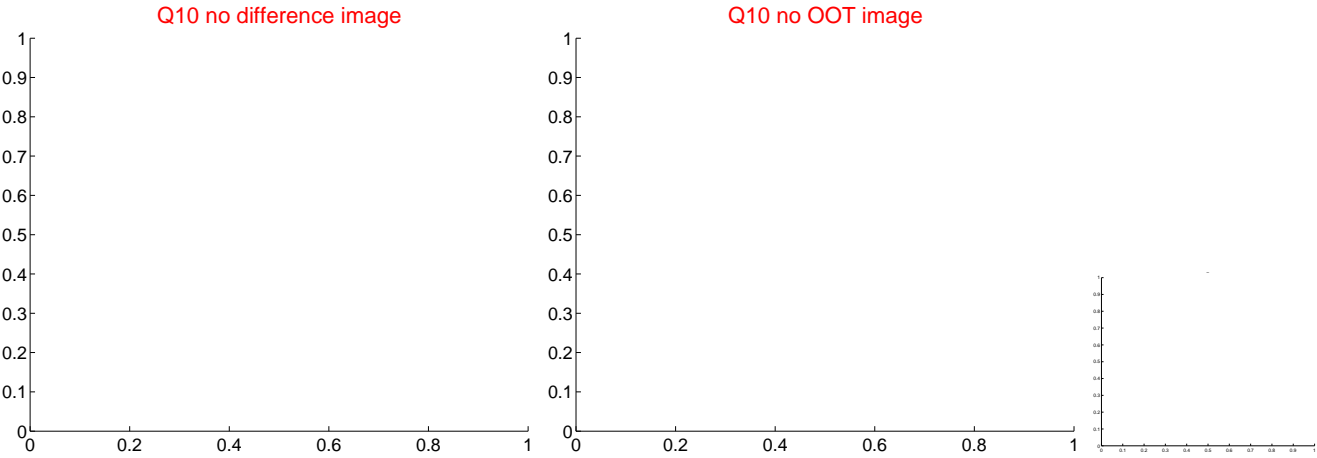
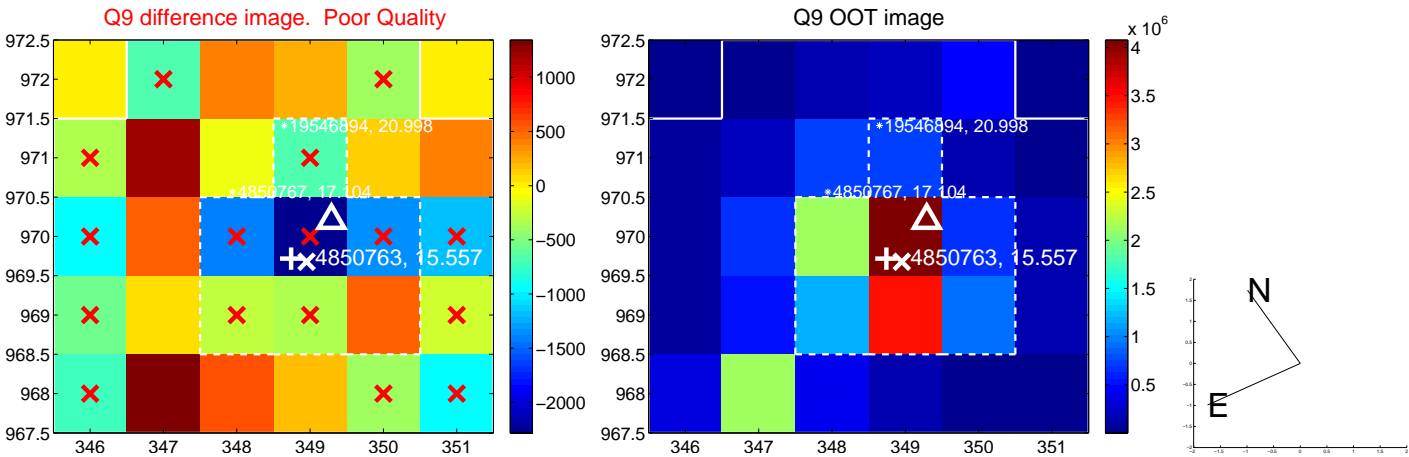
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



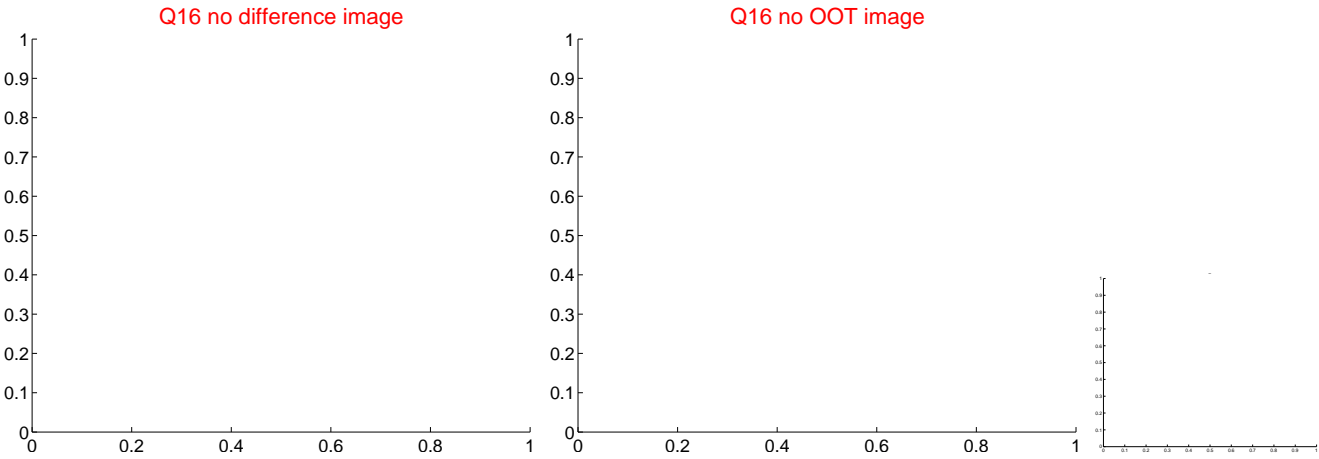
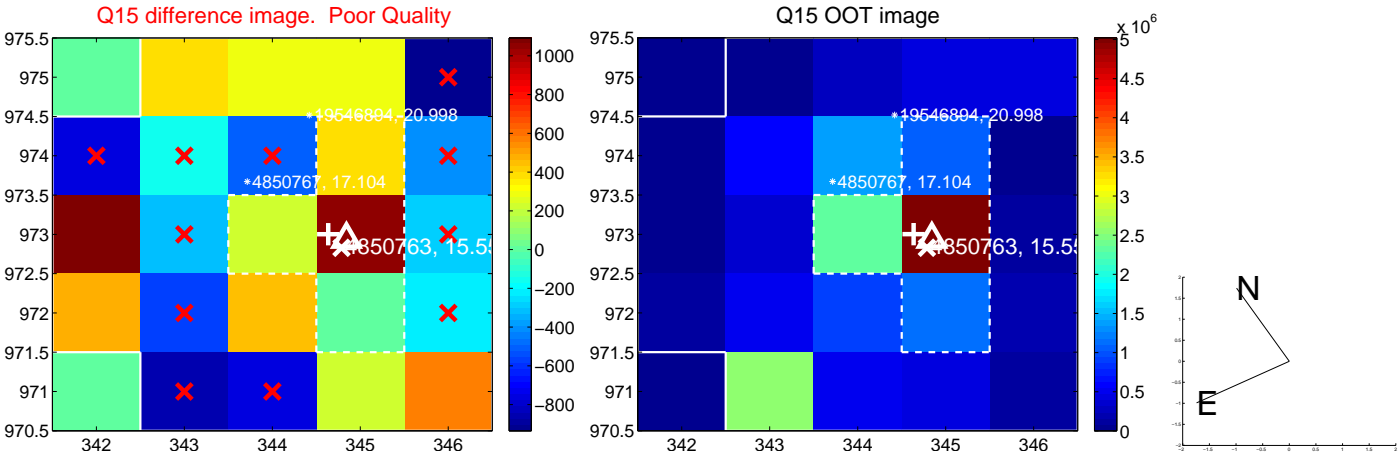
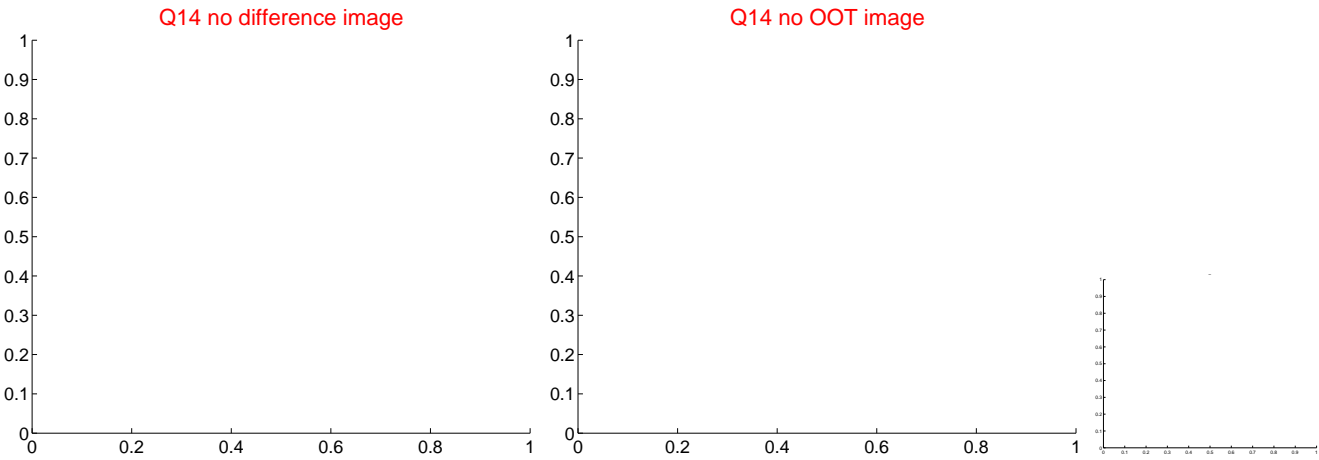
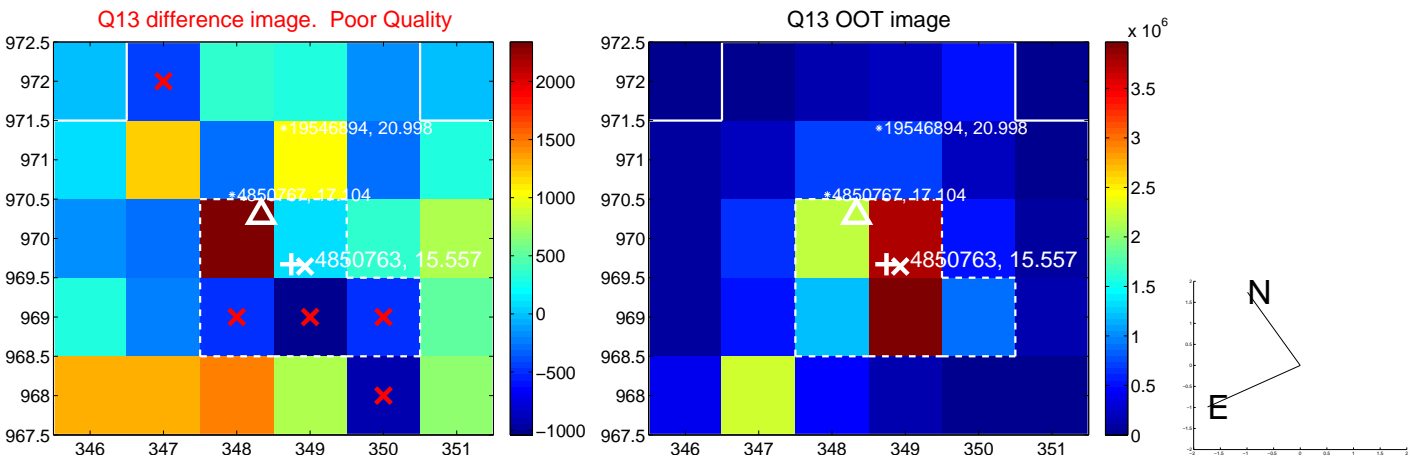
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



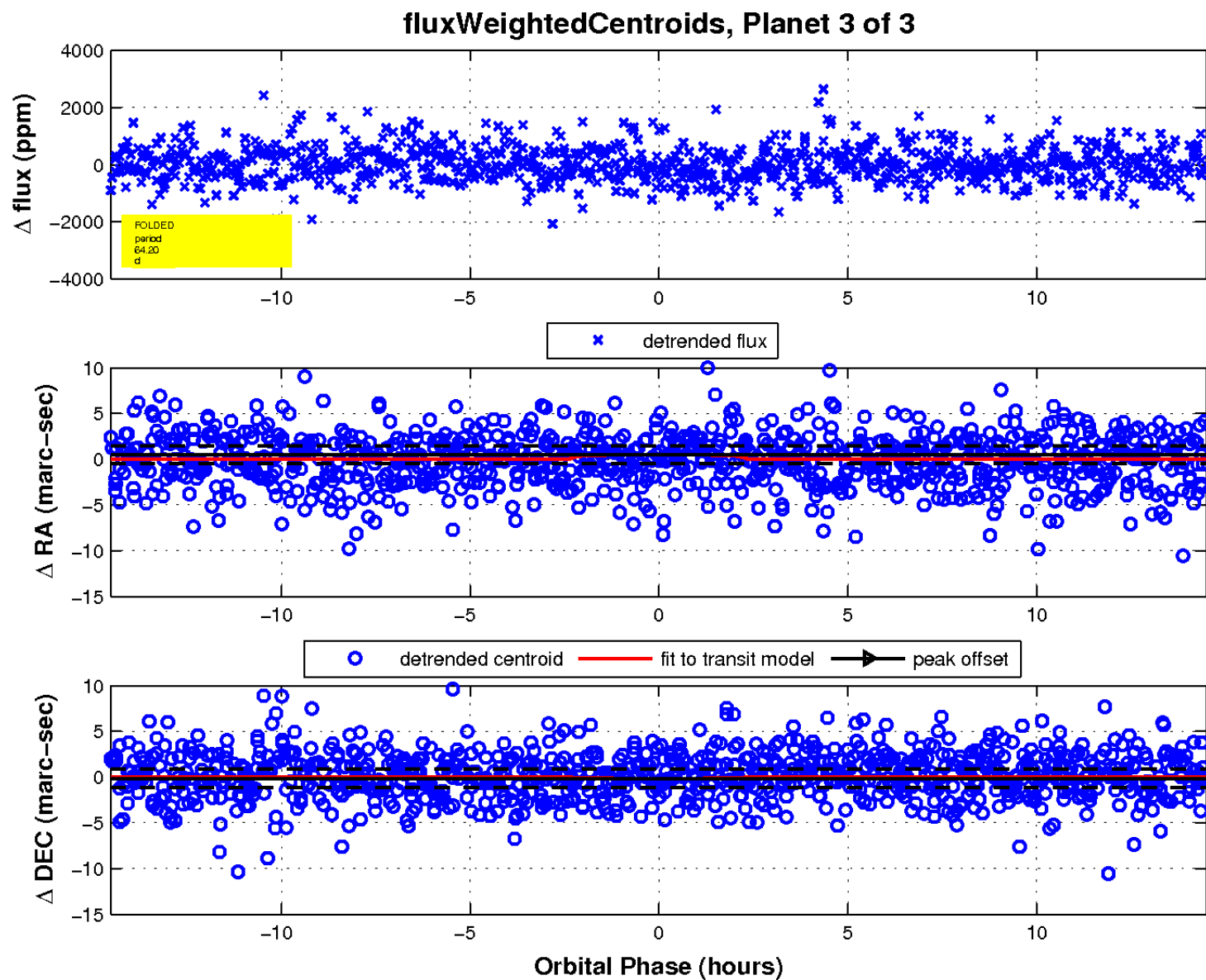
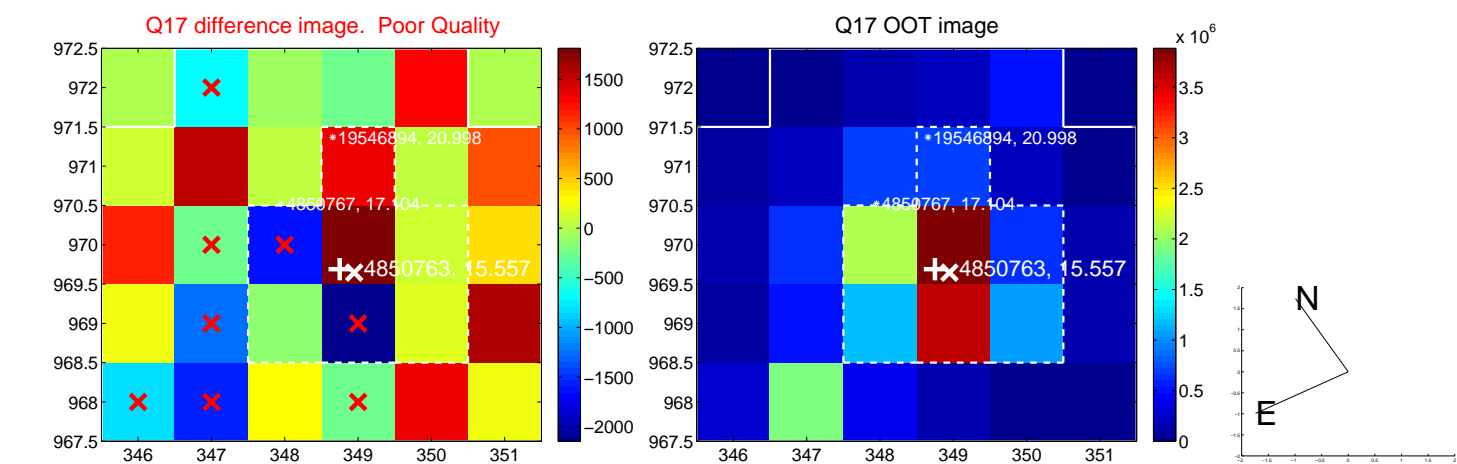
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

