

KIC 005025217

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})
005025217-01	OBS	6496.01	1.787604	132.417372	26.4	6.928	10.2	7.7	7.34	6286	4.55	53036.26
005025217-02	OBS	No	1.787610	131.532827	43.6	5.860	10.5	11.1	7.34	6286	7.98	53036.05
005025217-03	OBS	No	18.447369	148.951248	218.2	8.613	9.2	8.9	7.34	6286	12.39	2360.60
005025217-04	OBS	No	29.489063	159.114814	255.0	5.450	9.3	7.6	7.34	6286	15.32	1262.95
005025217-05	OBS	No	19.418689	137.006080	201.0	8.561	8.8	8.4	7.34	6286	11.88	2204.49
005025217-06	OBS	No	86.793263	178.302201	475.1	4.020	8.5	8.4	7.34	6286	18.10	299.42
005025217-07	OBS	No	10.595765	139.960544	215.0	1.911	8.0	7.8	7.34	6286	12.51	4944.15
005025217-08	OBS	No	12.464005	142.264307	176.1	2.619	8.0	7.3	7.34	6286	10.22	3981.60
005025217-09	OBS	No	12.084867	134.855286	99.8	3.500	7.9	-1.0	7.34	6286	7.37	4149.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005025217-01	OBS	FP	0.00	1	0	0	0	LPP_DV
005025217-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005025217-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005025217-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_NOFITS

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.

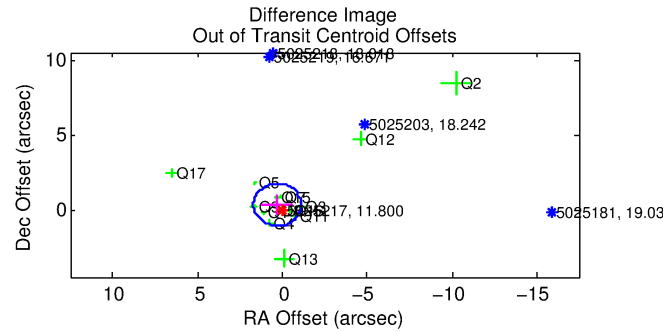
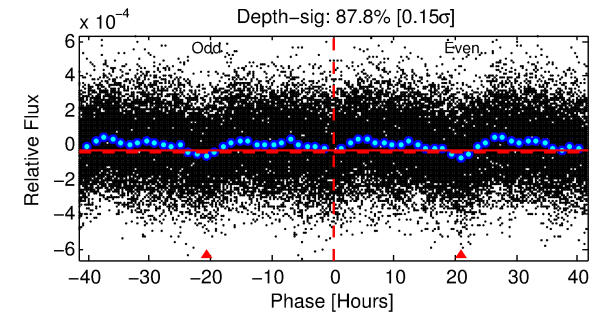
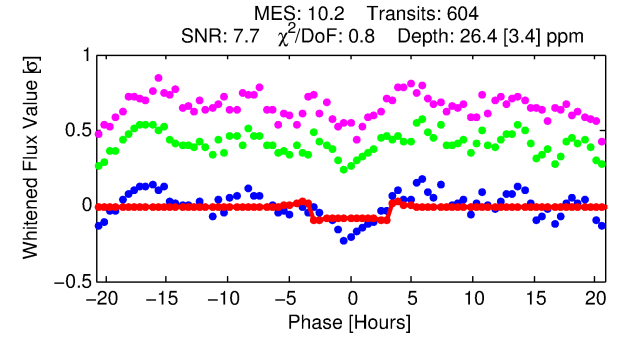
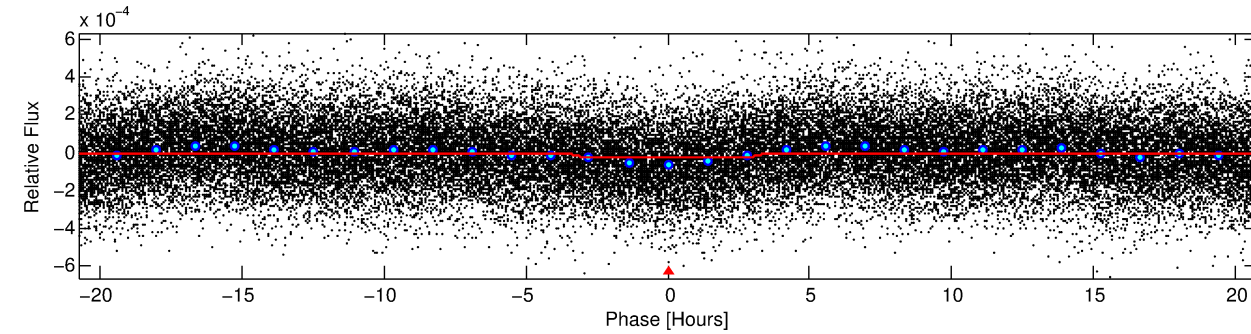
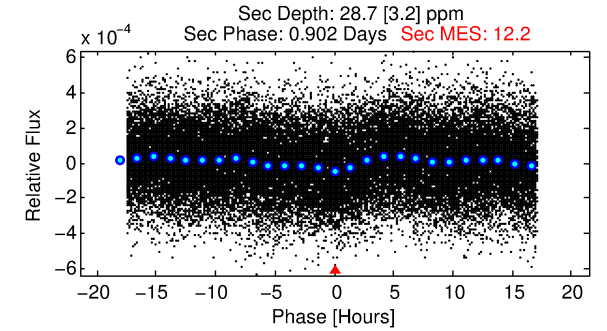
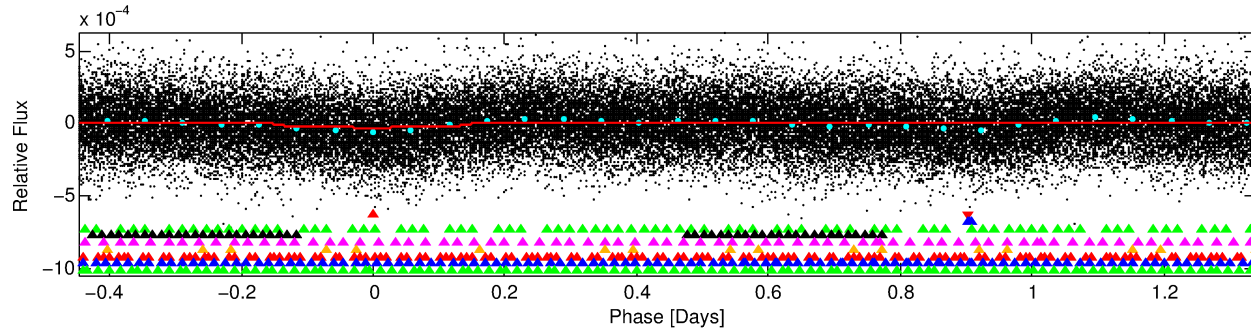
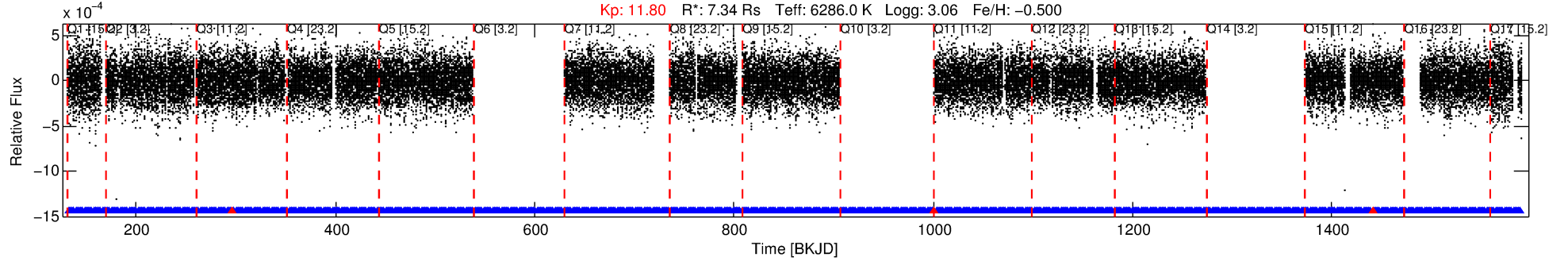
Ephemeris Match Information For 005025217-01

No Significant Match Found

DV One-Page Summary

KIC: 5025217 Candidate: 1 of 9 Period: 1.788 d
KOI: K06496.01 Corr: 0.932

Kp: 11.80 R*: 7.34 Rs Teff: 6286.0 K Logg: 3.06 Fe/H: -0.500



DV Fit Results:

Period = 1.78760 [0.00002] d
Epoch = 132.4174 [0.0043] BKJD
Rp/R* = 0.0057 [0.0009]
a/R* = 1.21 [0.34]
b = 0.93 [0.12]
Seff = 53036.26 [39879.61]
Teff = 3870 [727] K
Rp = 4.55 [2.34] Re
a = 0.0377 [0.0176] AU
Ag = 1.08 [0.89] [0.09σ]
Teffp = 6104 [561] K [2.43σ]

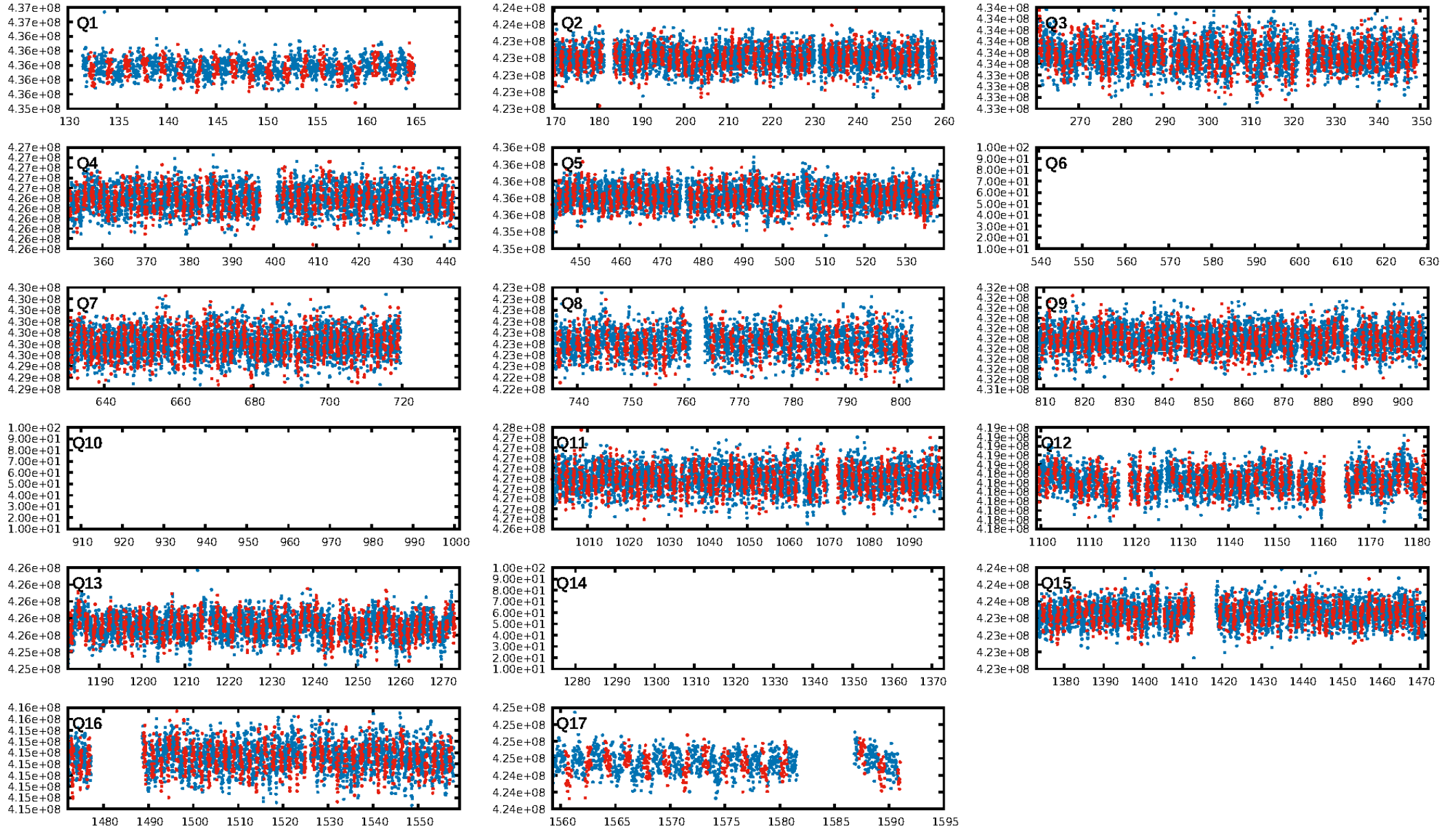
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.99 [567/570]
GhostDiagnostic-chr: 1.359
Centroid-sig: N/A
Centroid-so: 0.296 arcsec [0.63σ]
OotOffset-rm: 0.442 arcsec [0.94σ]
KicOffset-rm: 0.454 arcsec [0.86σ]
OotOffset-st: 1/4/4/5 [14]
KicOffset-st: 1/4/4/5 [14]
DiffImageQuality-fgm: 0.71 [10/14]
DiffImageOverlap-fno: 1.00 [14/14]

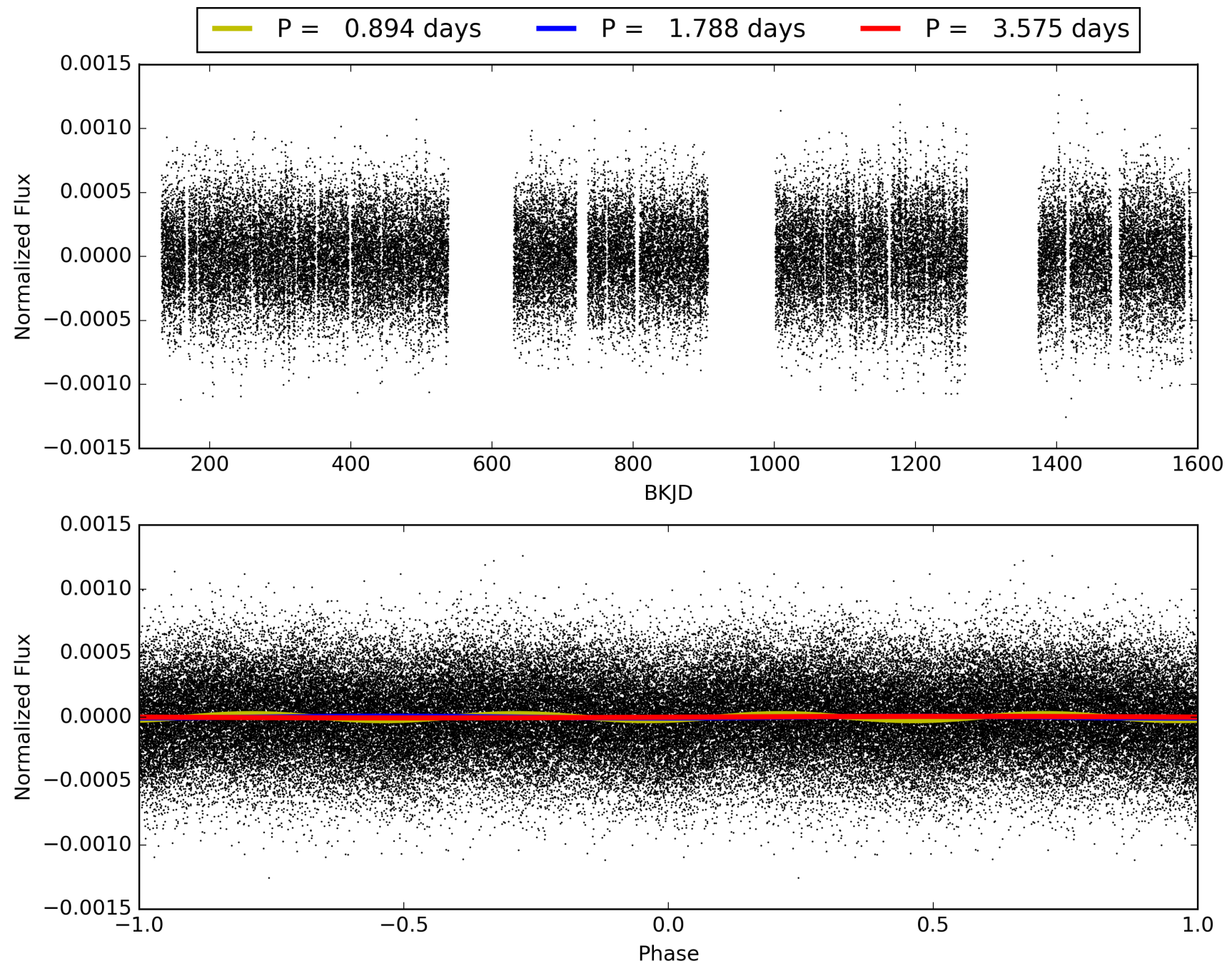
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005025217-01, PDC Light Curves

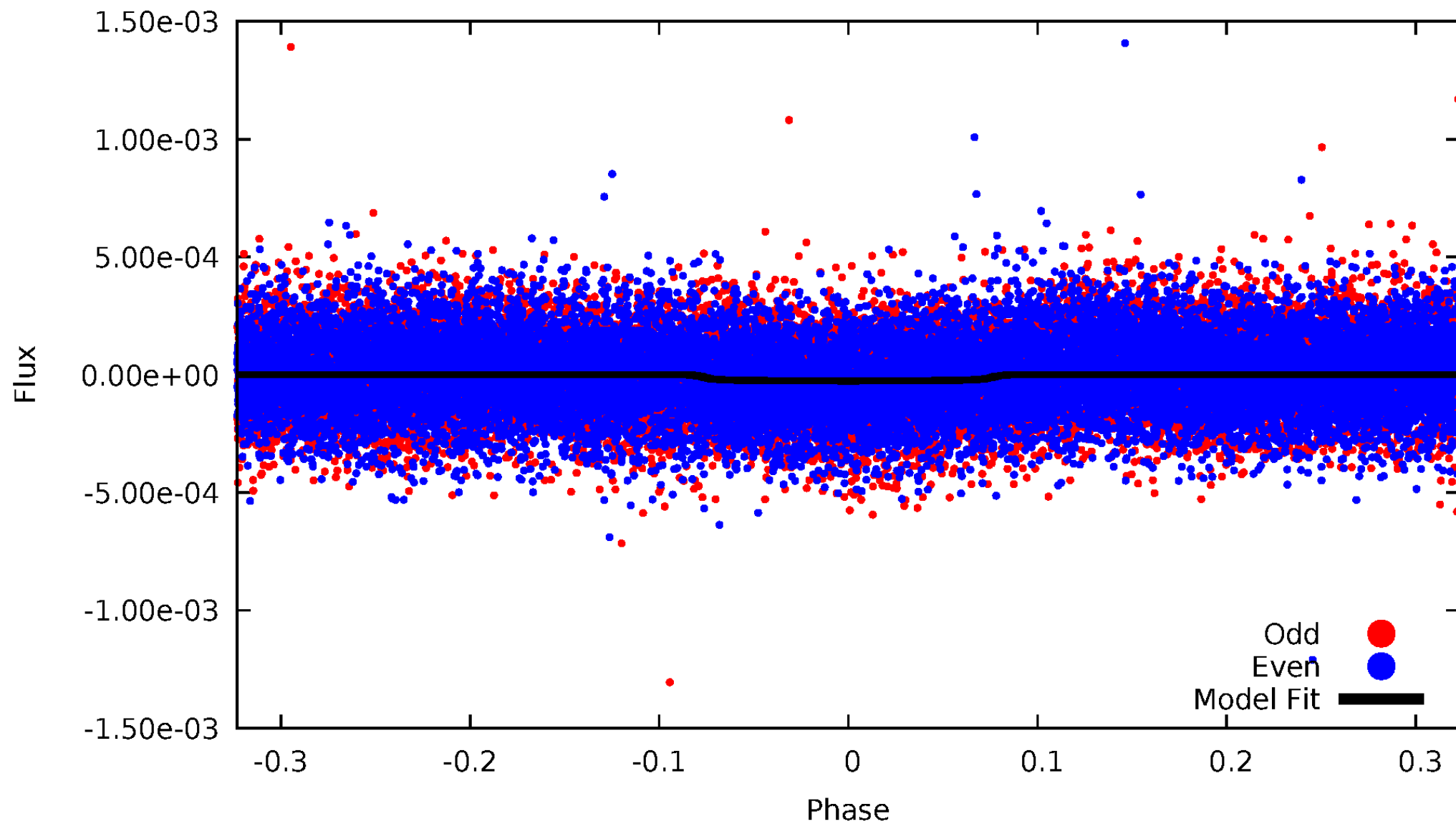


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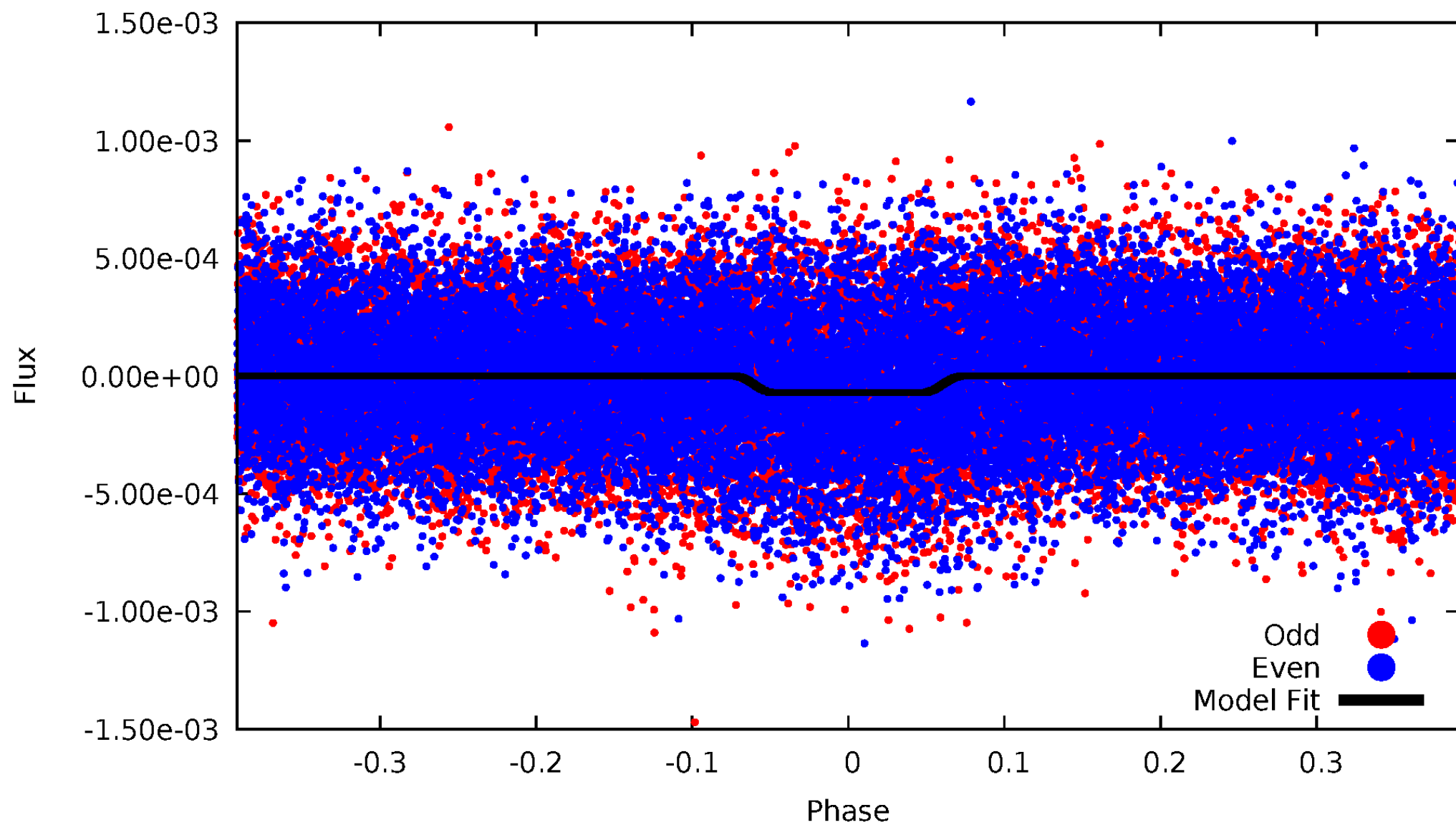
DV Odd/Even

TCE 005025217-01

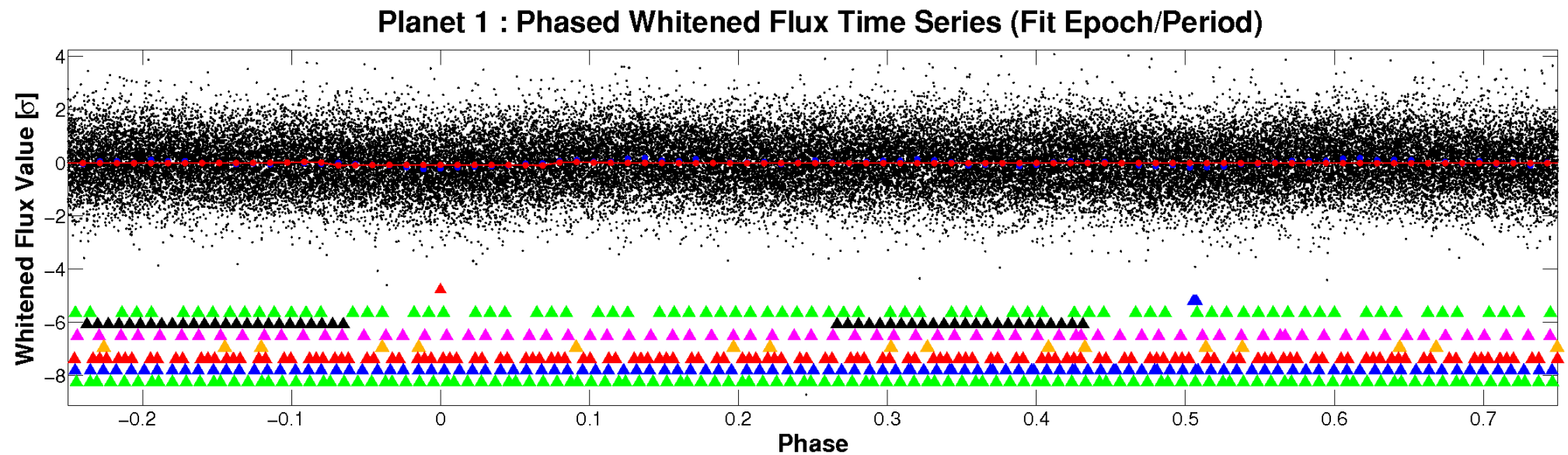
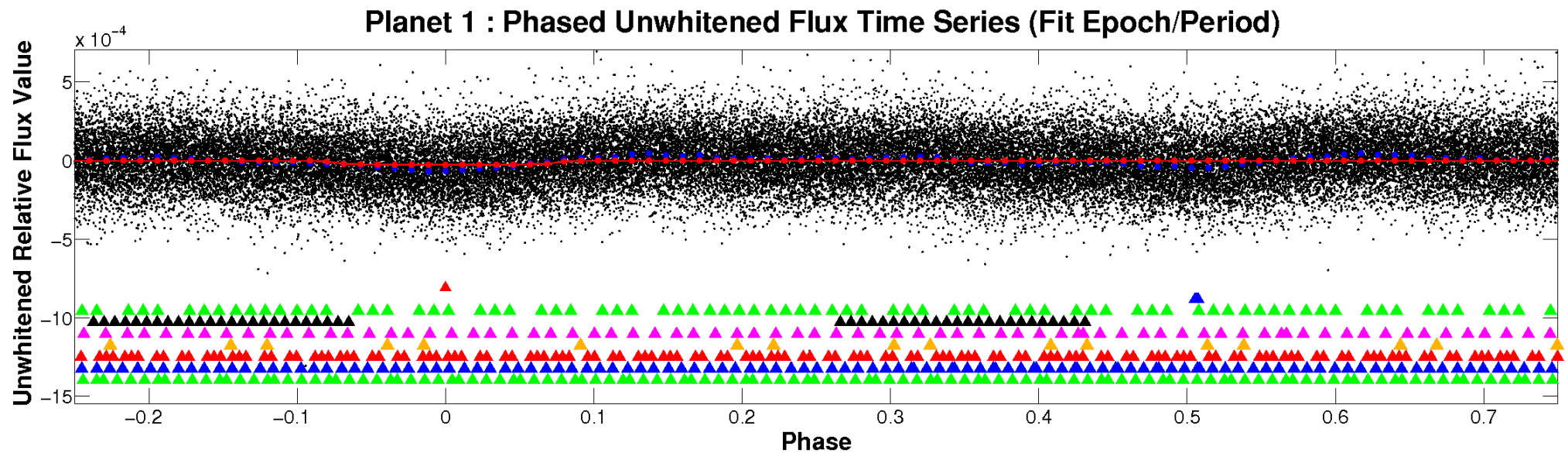


ALT Odd/Even

TCE 005025217-01

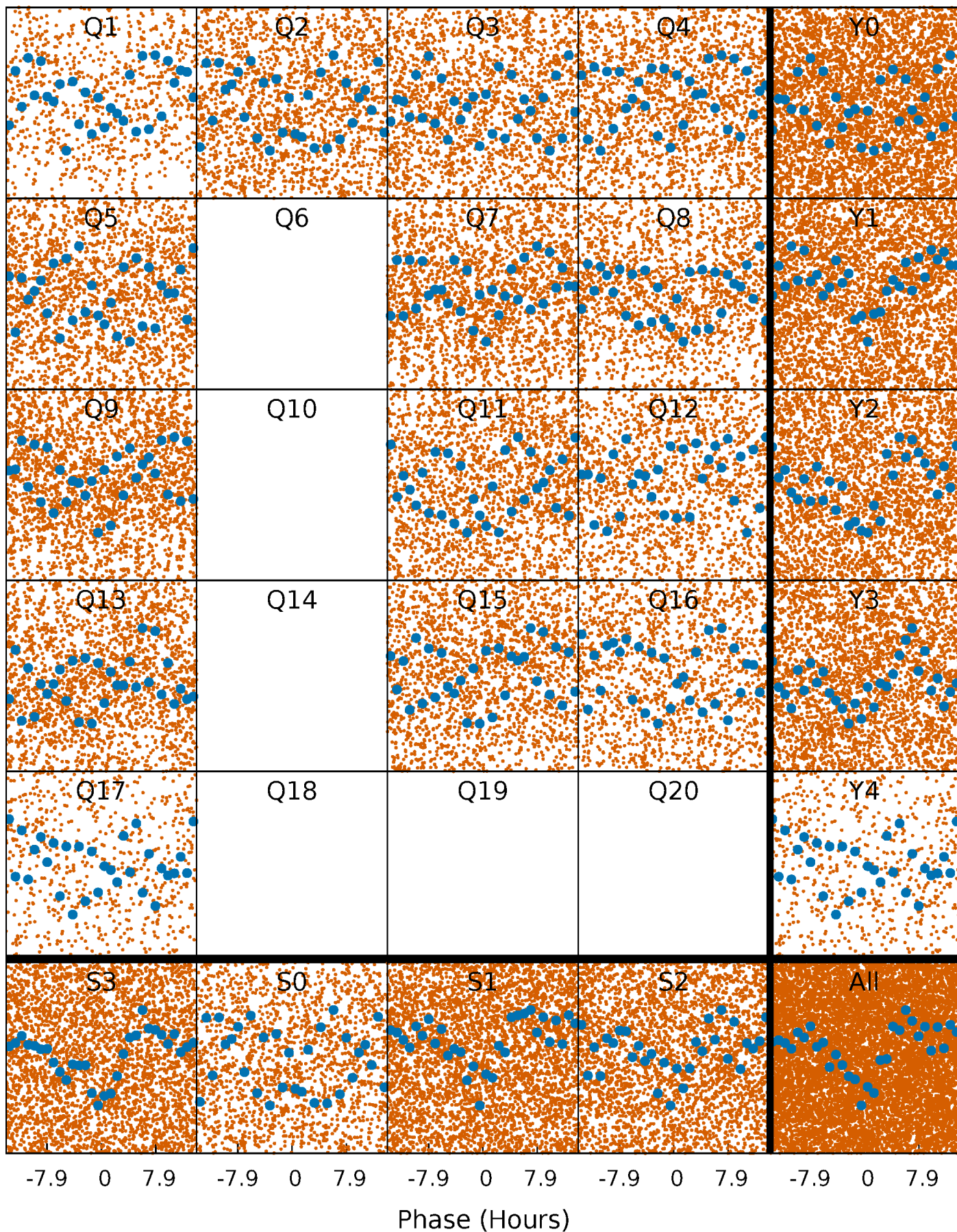


Non-Whitened Vs. Whitened Light Curve



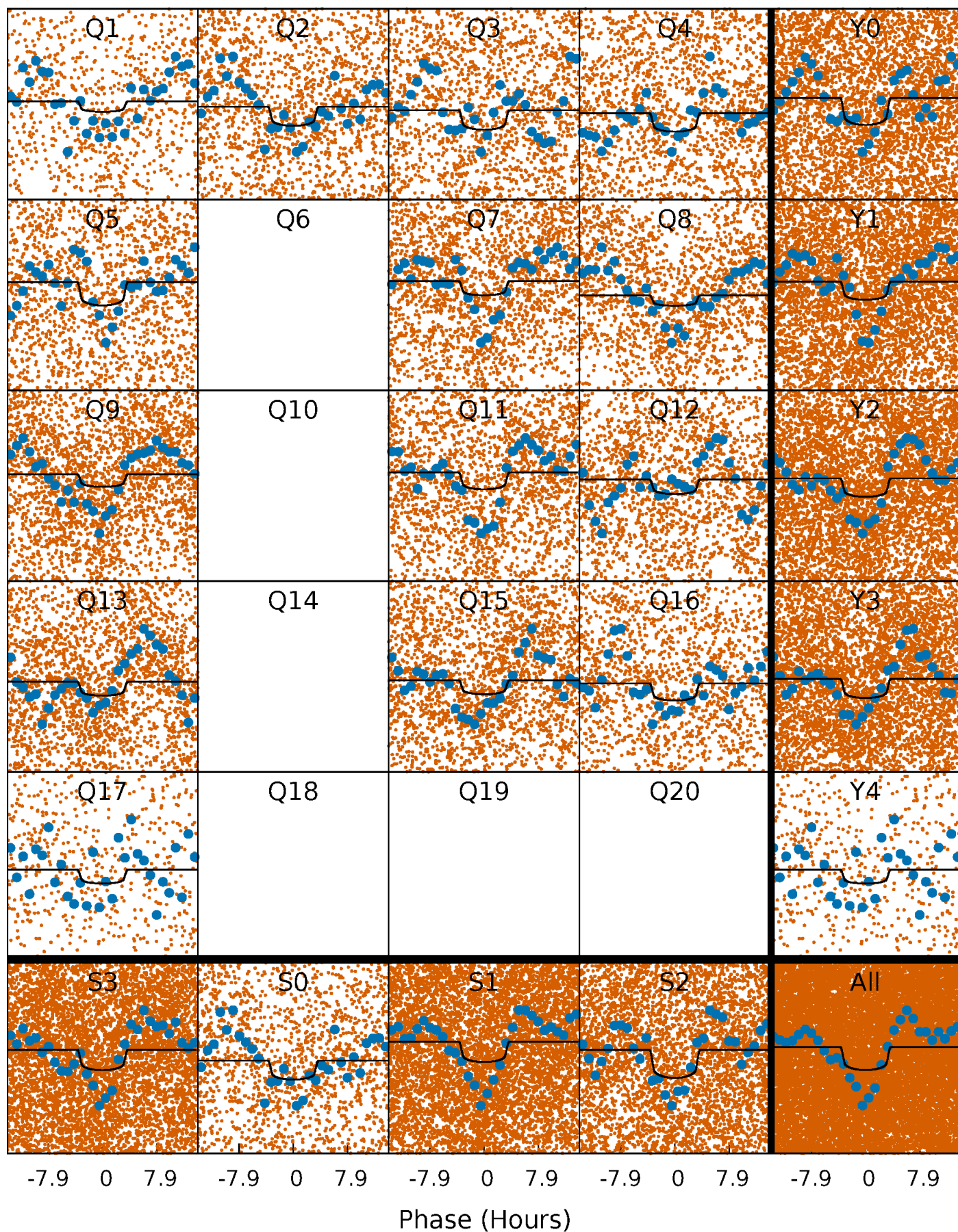
PDC Quarter-Phased Transit Curves

TCE 005025217-01 P= 1.787604 Days $T_0=132.417372$ (BKJD)



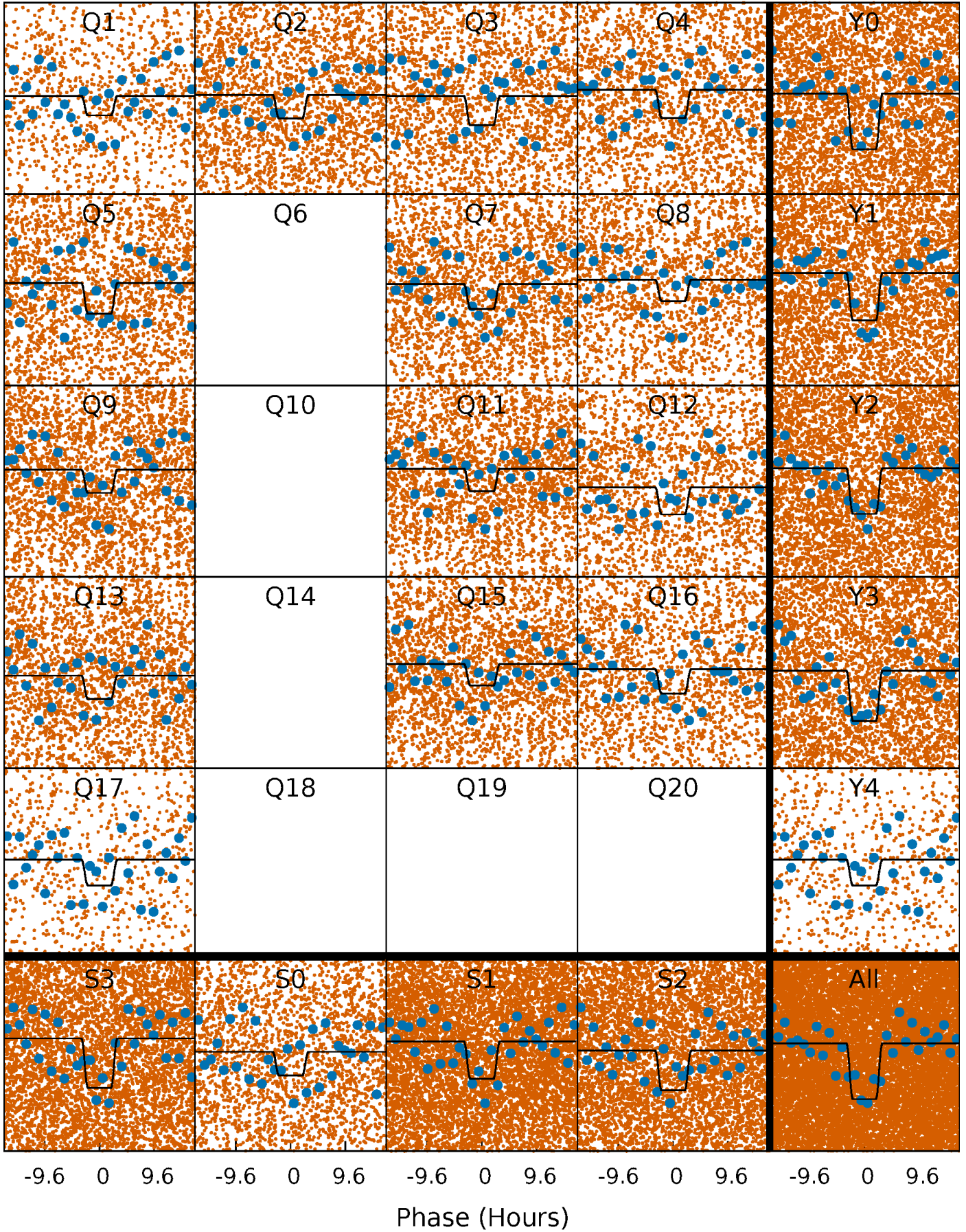
DV Quarter-Phased Transit Curves

TCE 005025217-01 P= 1.787604 Days $T_0=132.417372$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

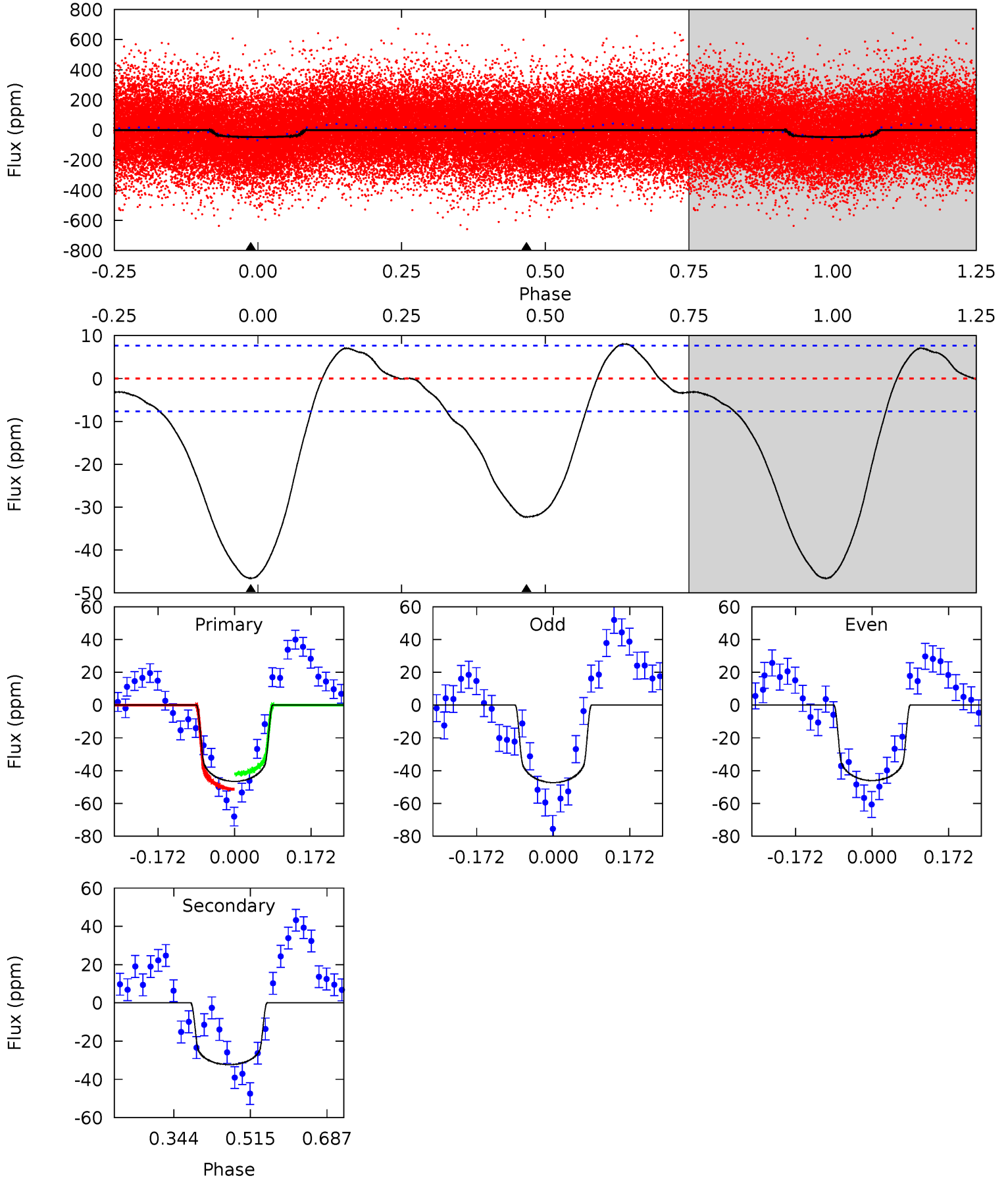
TCE 005025217-01 P= 1.787543 Days $T_0=132.425976$ (BKJD)



DV Model-Shift Uniqueness Test

005025217-01, P = 1.787604 Days, E = 130.629768 Days

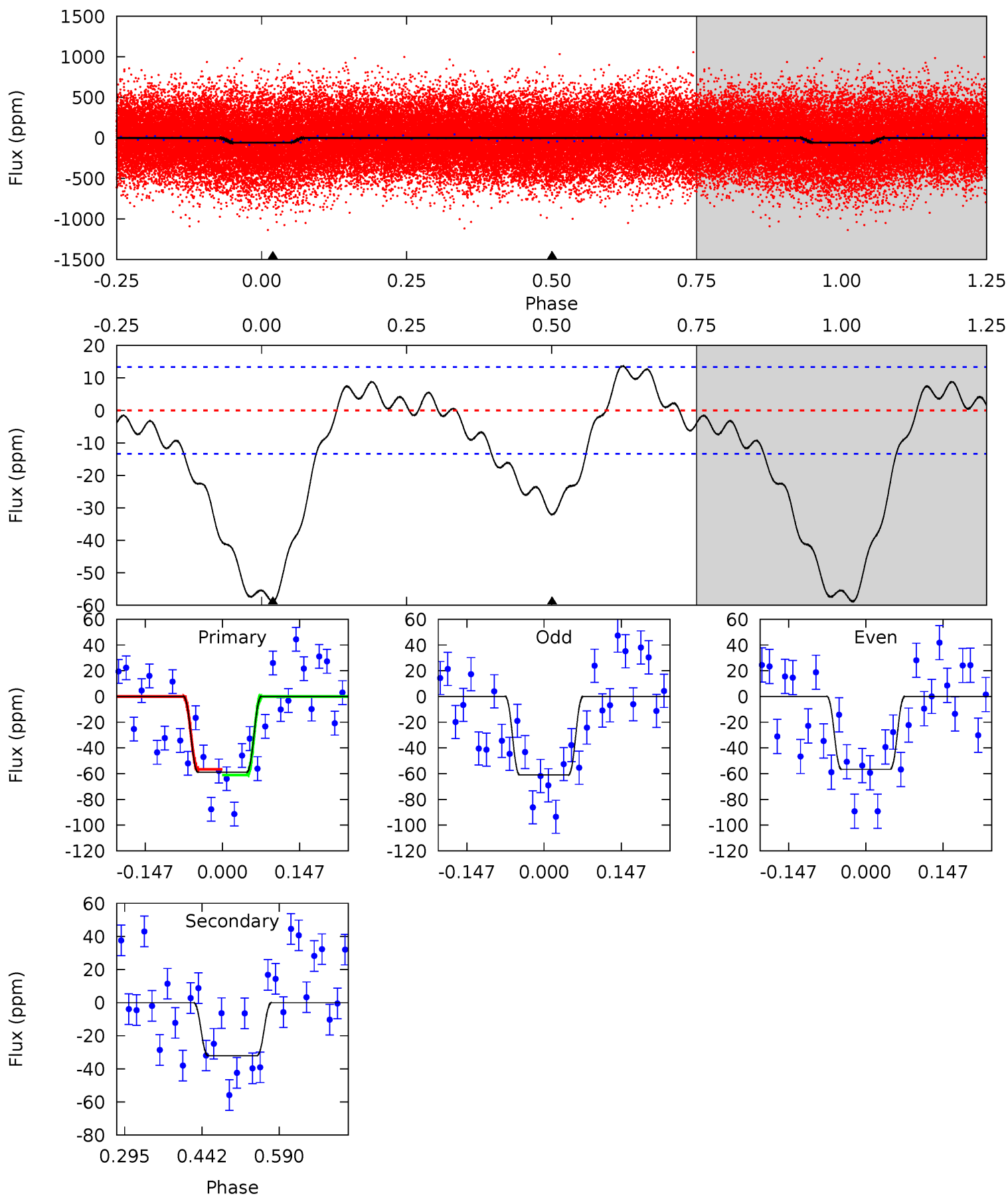
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.0	18.7	0	0	4.45	1.37	2.29	27.0	27.0	18.7	18.7	0.36	1.01	0.15	2.71



Alt Model-Shift Uniqueness Test

005025217-01, P = 1.787543 Days, E = 130.638433 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.7	10.7	0	0	4.48	1.45	2.06	19.7	19.7	10.7	10.7	0.74	0.94	0.19	0.75



Stellar Parameters For KIC 005025217

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6286^{+157}_{-188}	$3.056^{+0.435}_{-0.145}$	$-0.500^{+0.350}_{-0.300}$	$7.342^{+1.923}_{-3.572}$	$2.233^{+0.311}_{-0.673}$	$0.008^{+0.034}_{-0.003}$
	+2%/-3%	+14%/-5%	+70%/-60%	+26%/-49%	+14%/-30%	+425%/-42%
Source	PHO1	FLK73	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 005025217-01 / KOI 6496.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-32 ± 2	$4.23^{+1.16}_{-1.19}$	5280^{+444}_{-607}	5942^{+718}_{-622}	$1.420^{+1.155}_{-0.553}$
Alt.	-32 ± 3	$6.36^{+1.41}_{-1.63}$	5300^{+404}_{-610}	4559^{+470}_{-647}	$0.622^{+0.406}_{-0.209}$

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 $A_{obs} \gg 1.0$

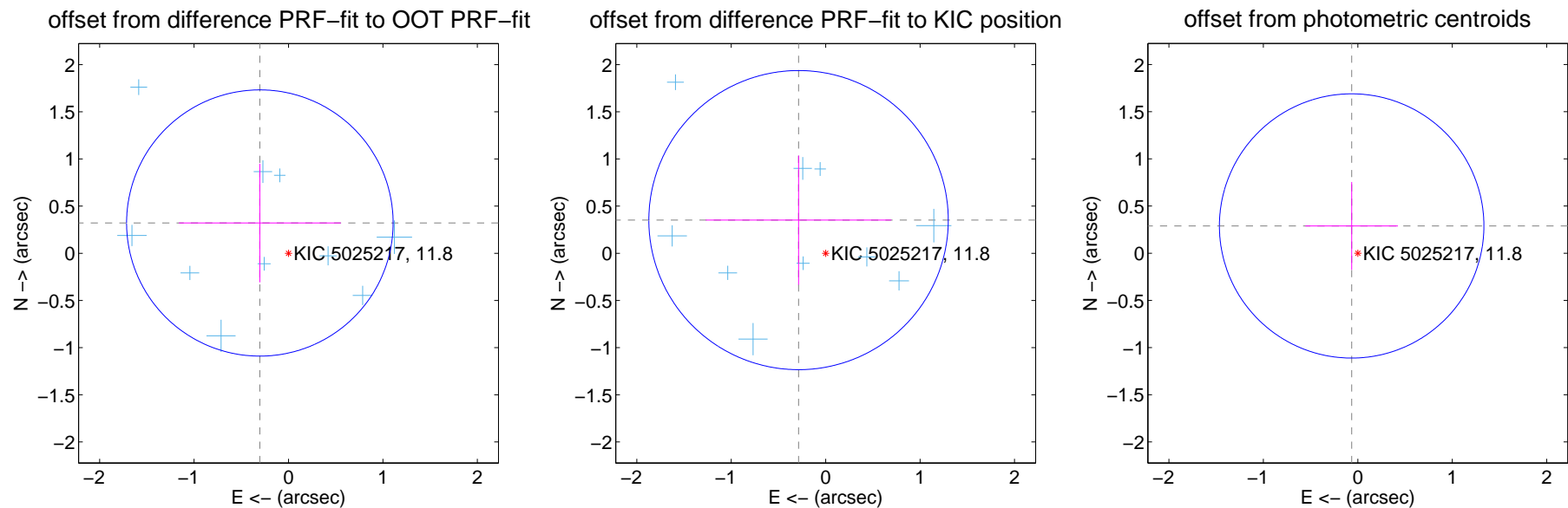
DV Centroid Data

Supplemental centroid analysis for 005025217-01. **Kepler magnitude: 11.80.** Transit SNR 7.71

There are 10 quarters with good PRF difference image offsets

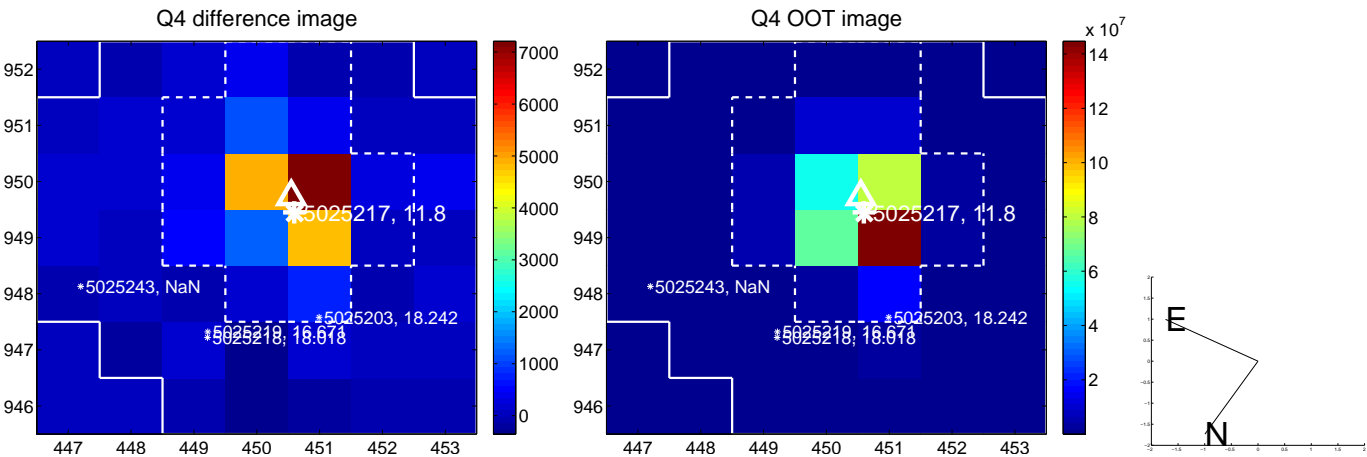
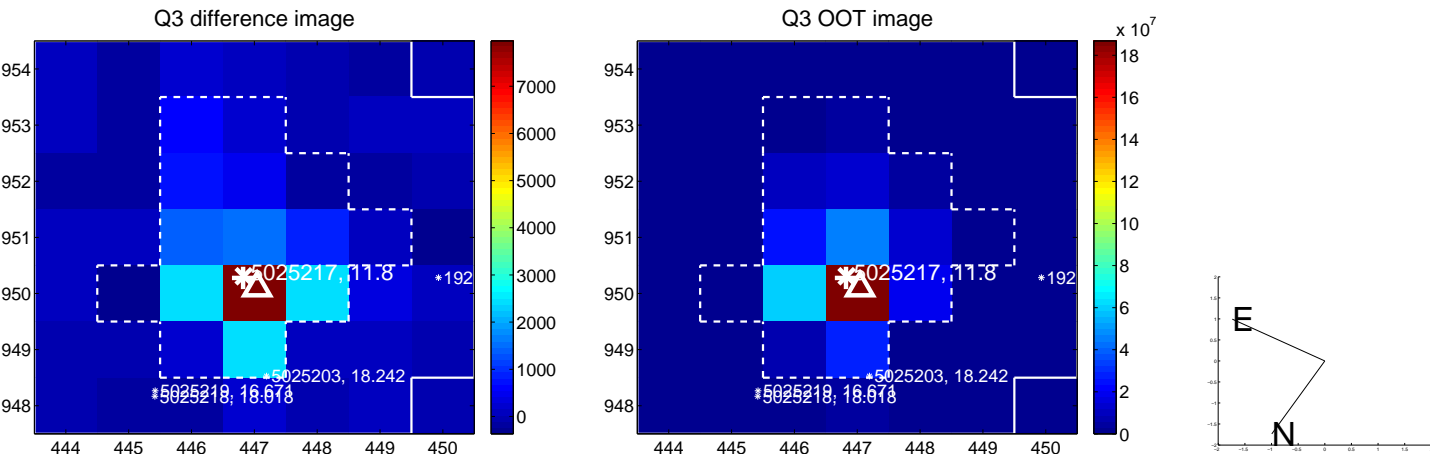
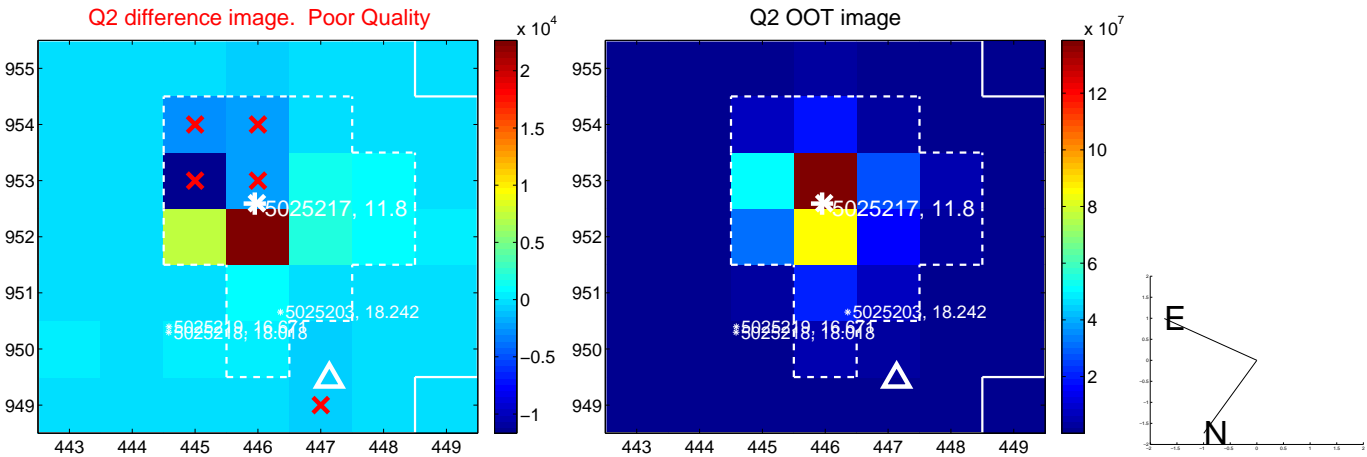
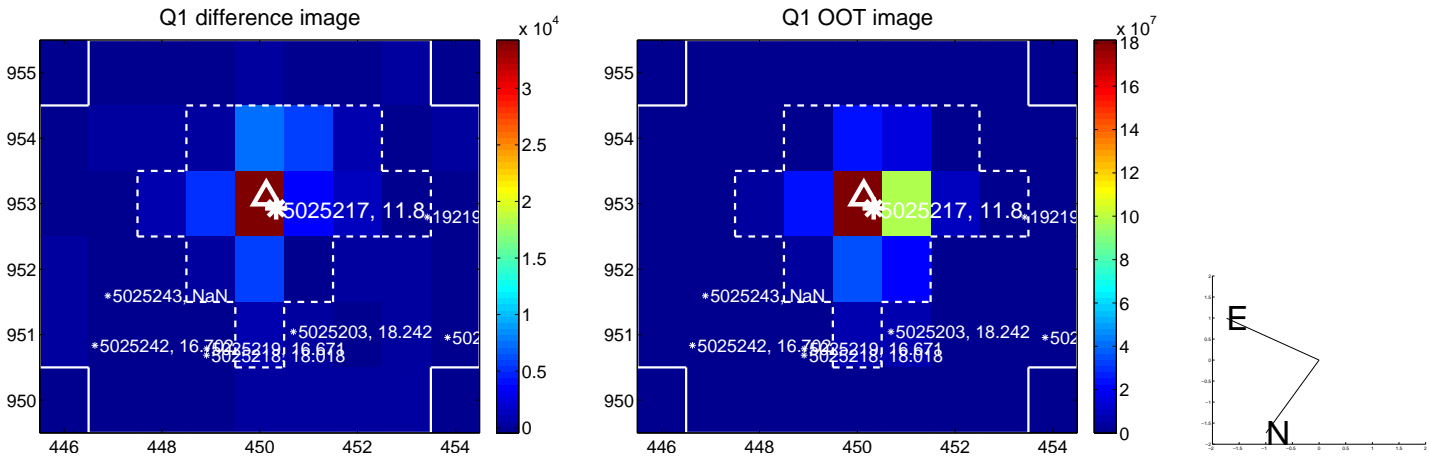
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.442 ± 0.470	0.94	0.303 ± 0.857	0.321 ± 0.629
PRF-fit source offset from KIC position	0.454 ± 0.529	0.86	0.287 ± 0.983	0.352 ± 0.685
photometric centroid source offset	0.30 ± 0.47	0.63	0.07 ± 0.49	0.29 ± 0.47

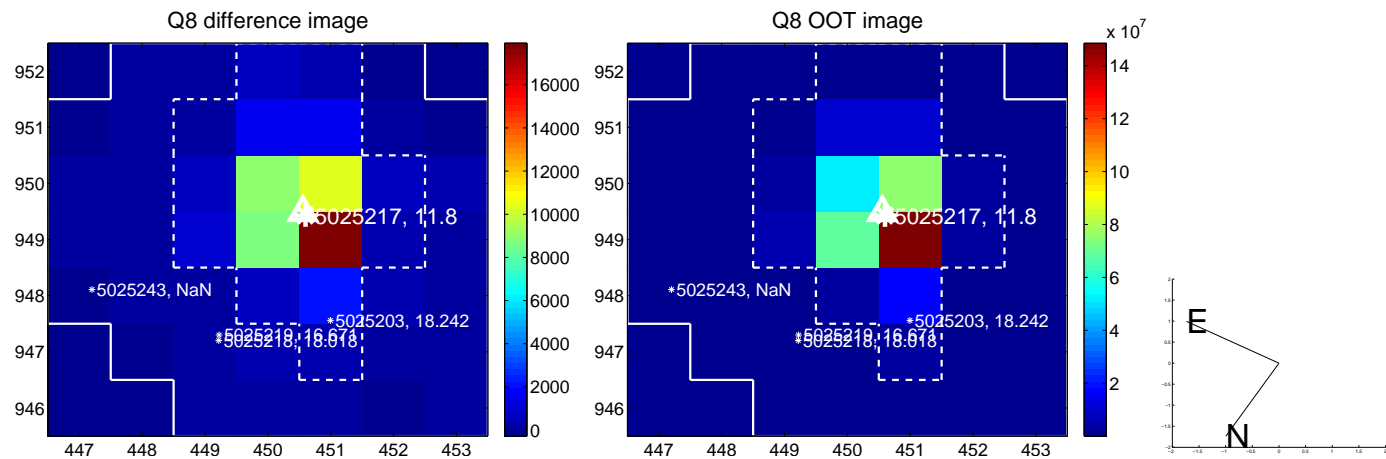
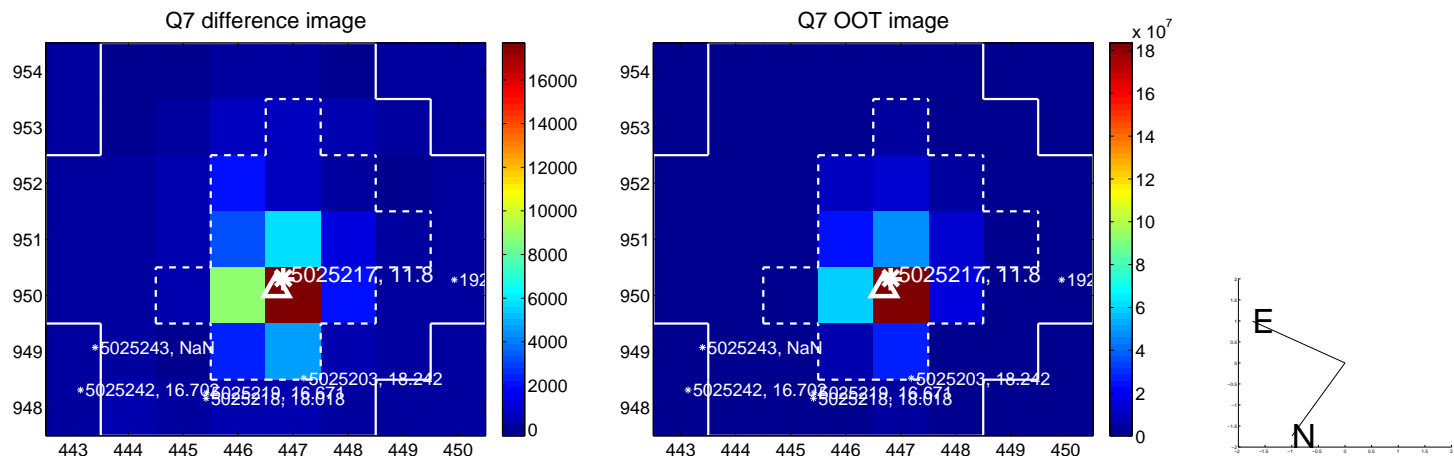
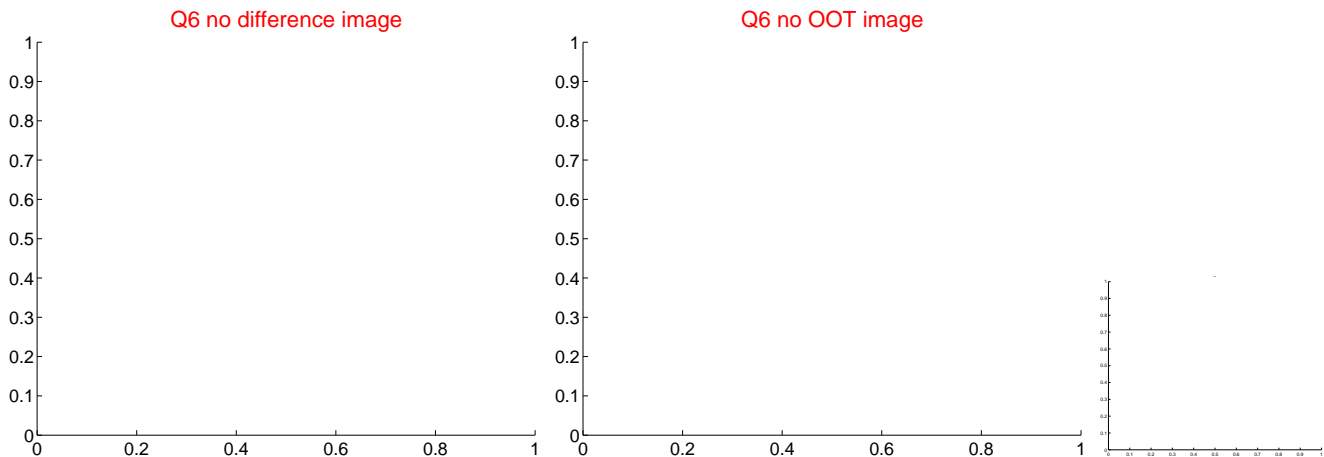
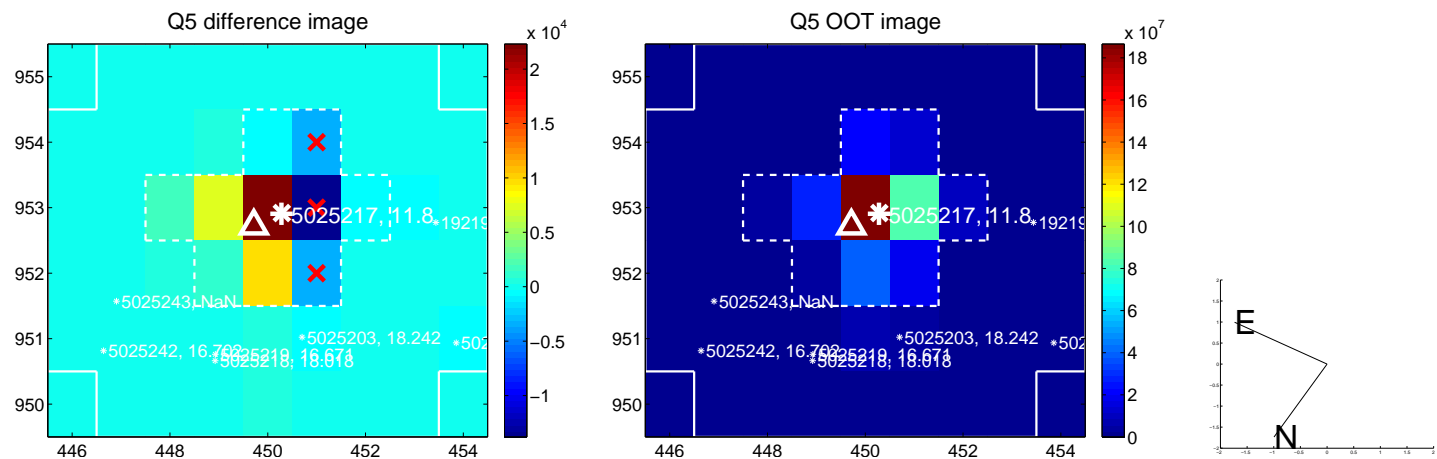


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

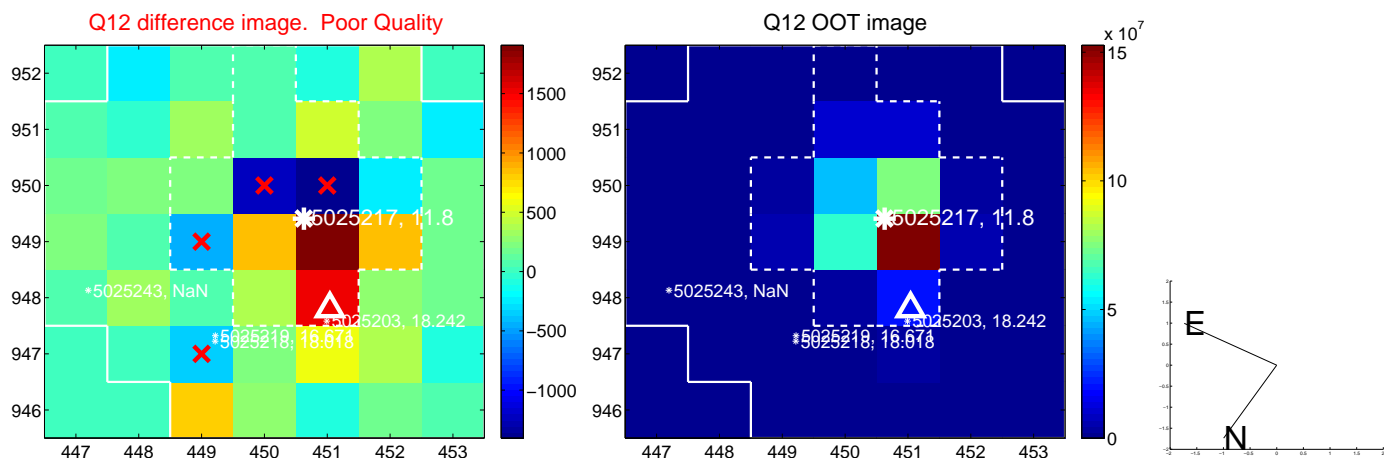
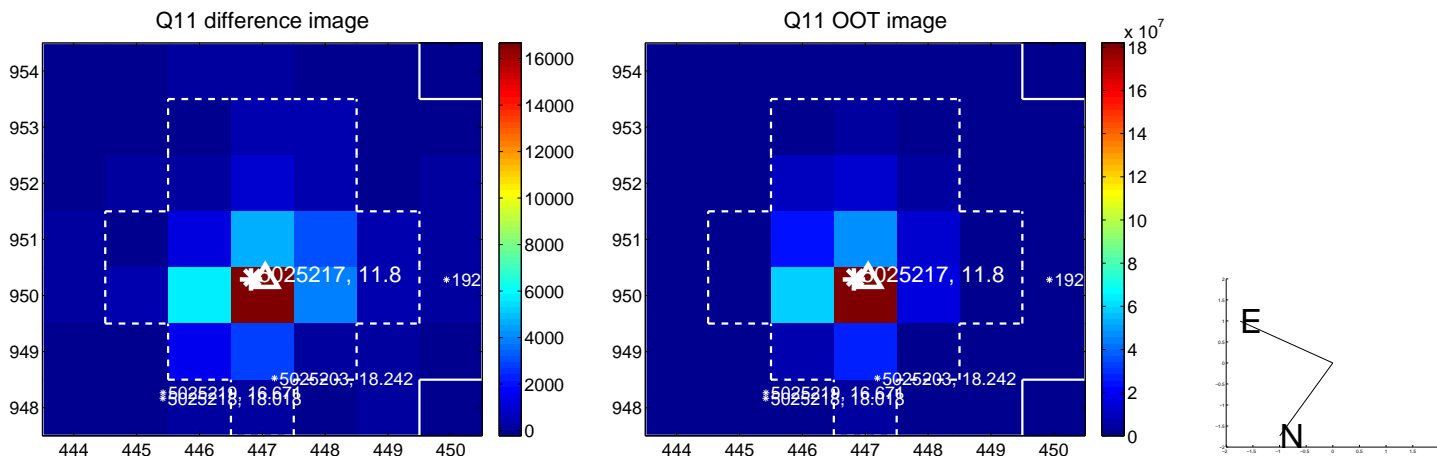
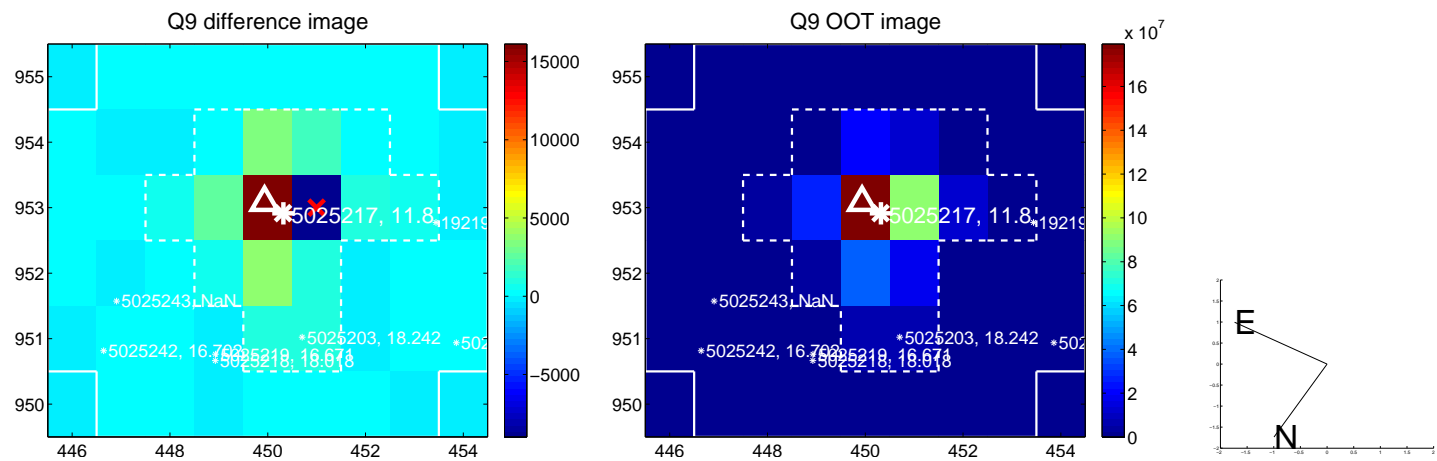
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



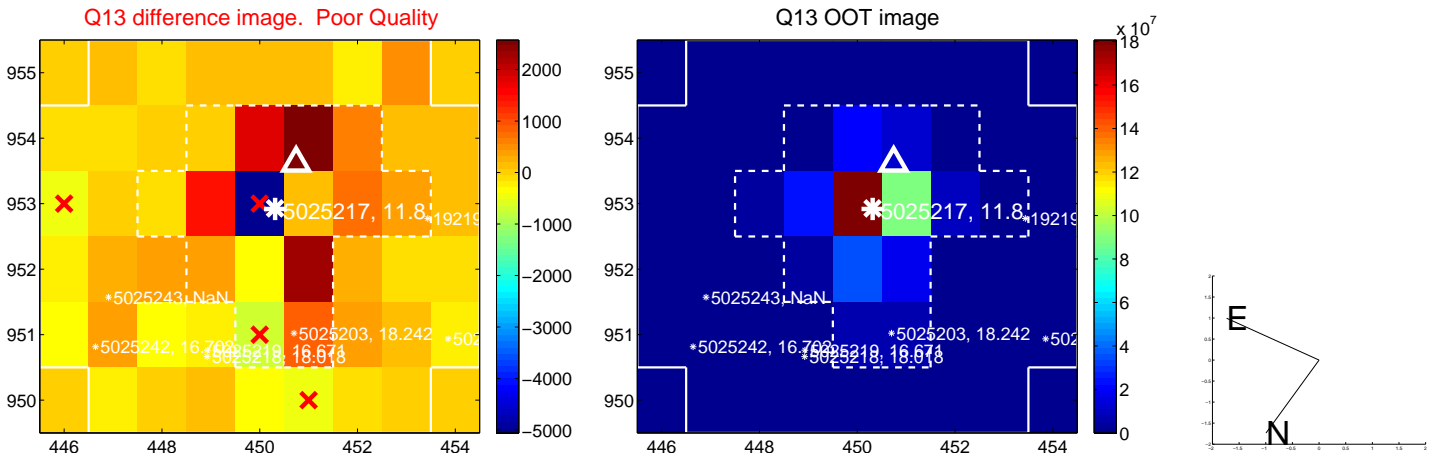
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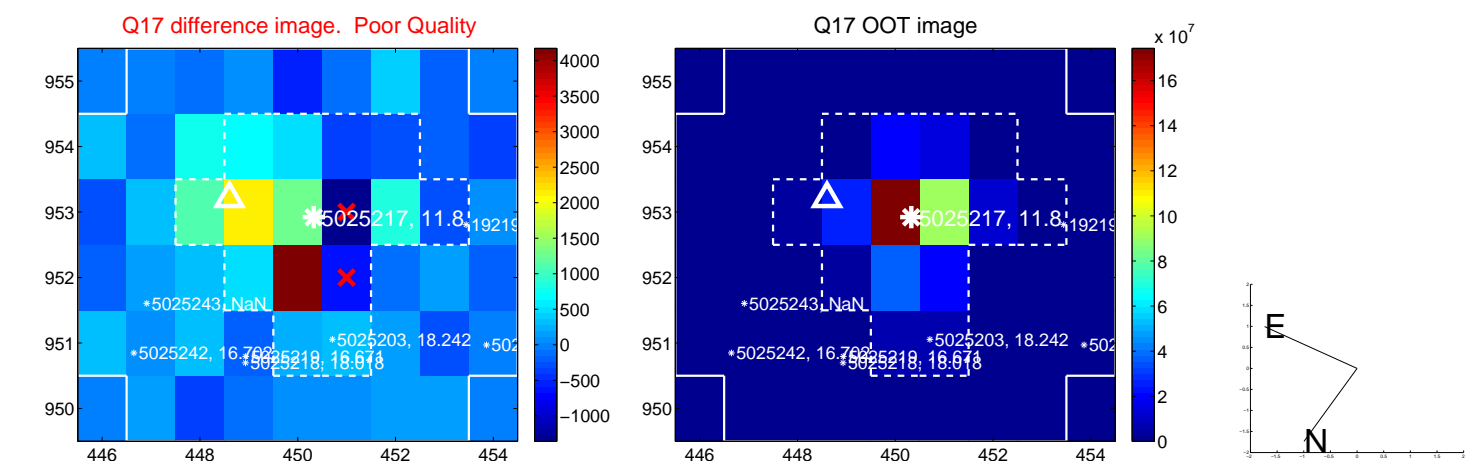
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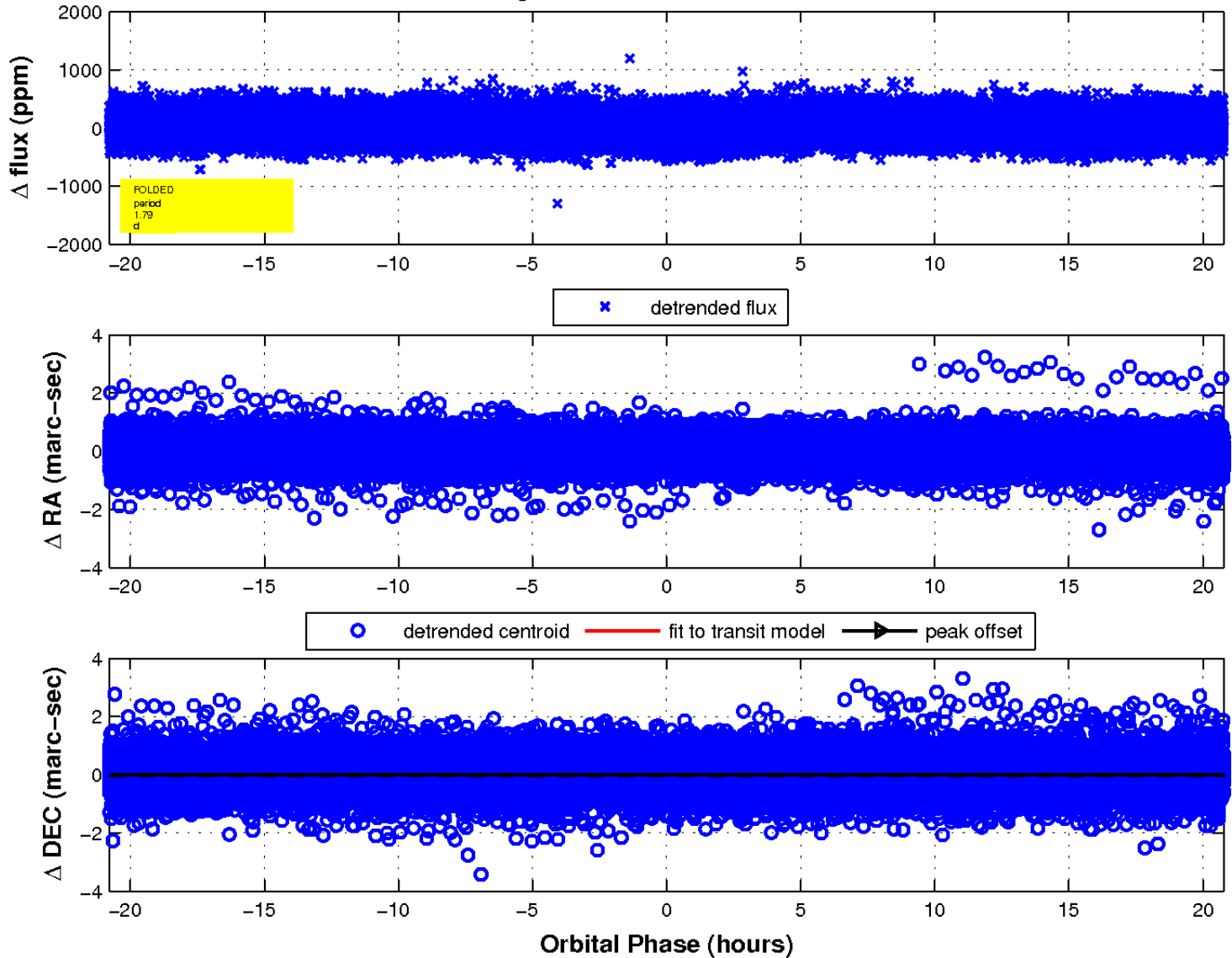
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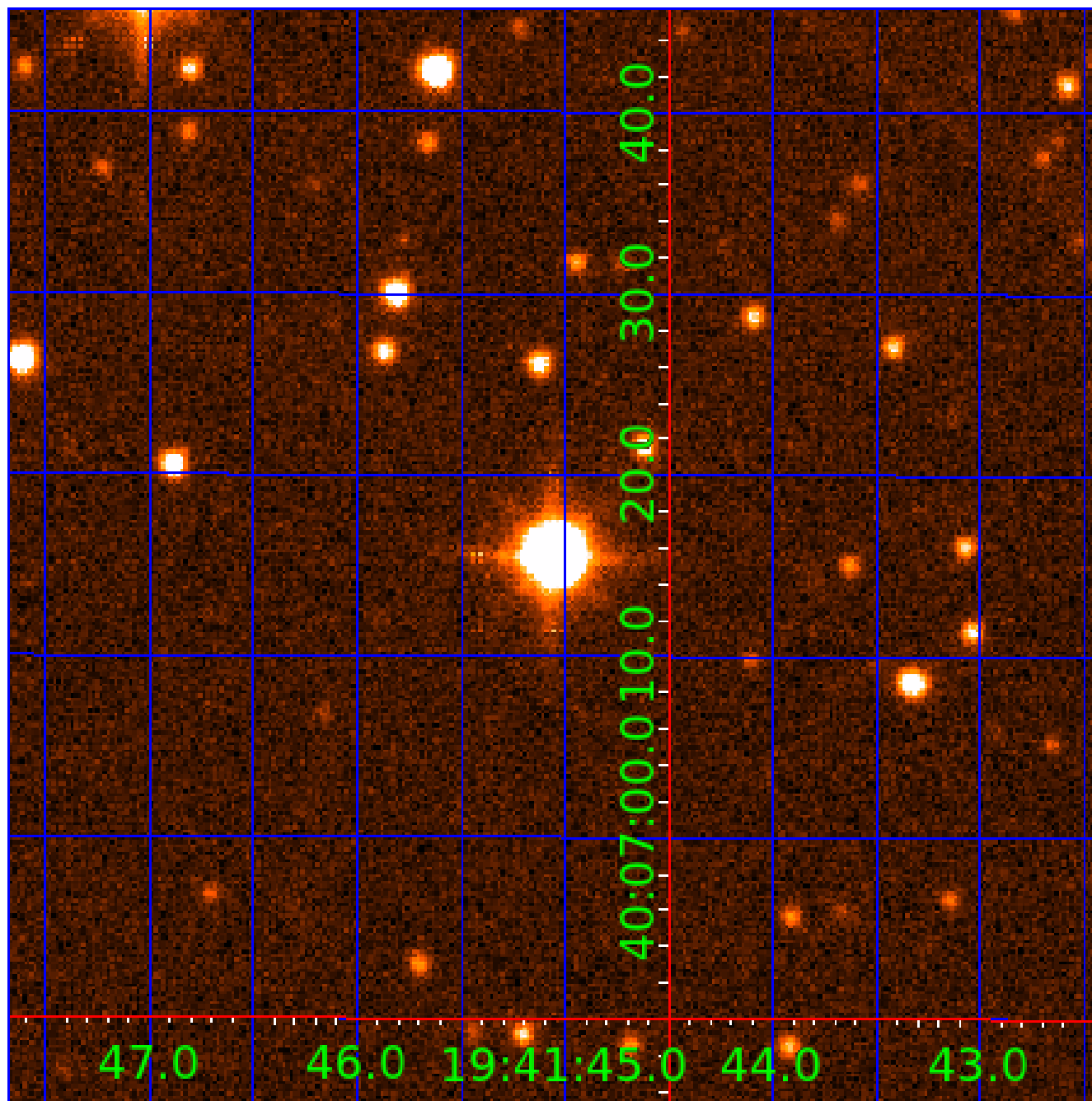


fluxWeightedCentroids, Planet 1 of 9



UKIRT Image

Declination



KIC 005025217

Q1-17 DR25 TCE Parameters

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005025217-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_NOFITS

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 005025217-02

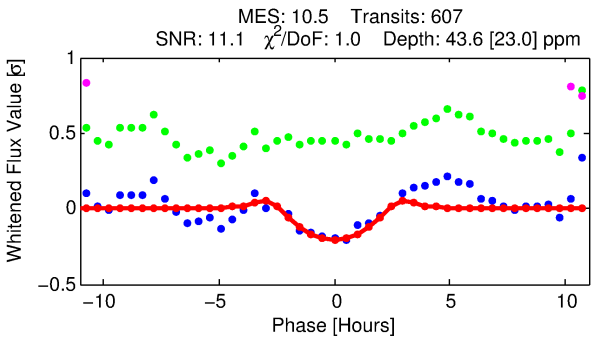
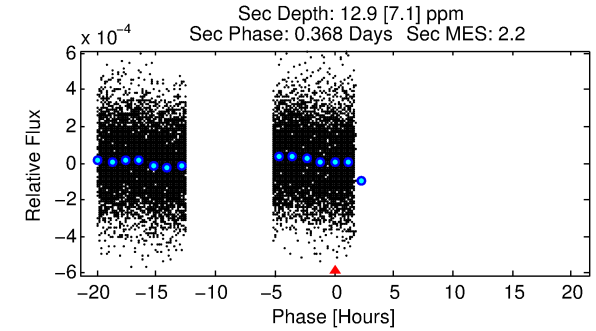
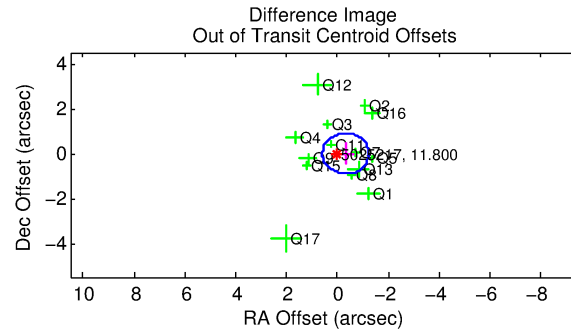
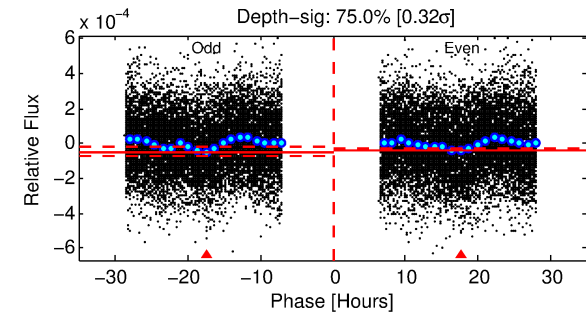
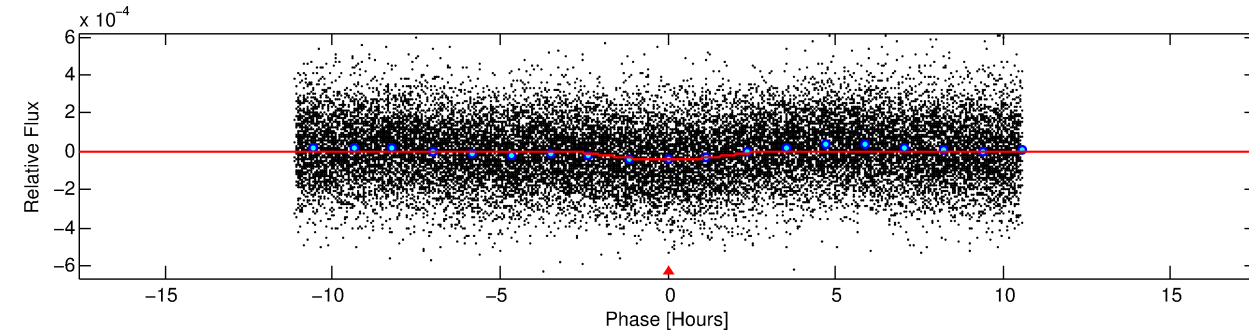
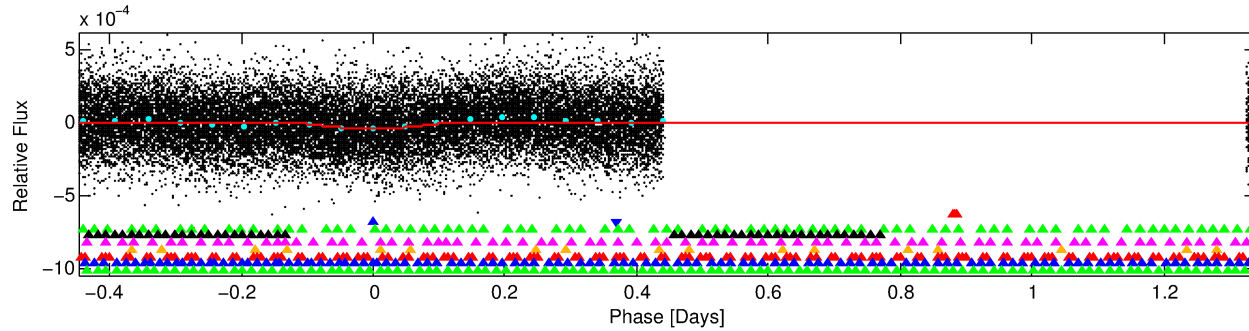
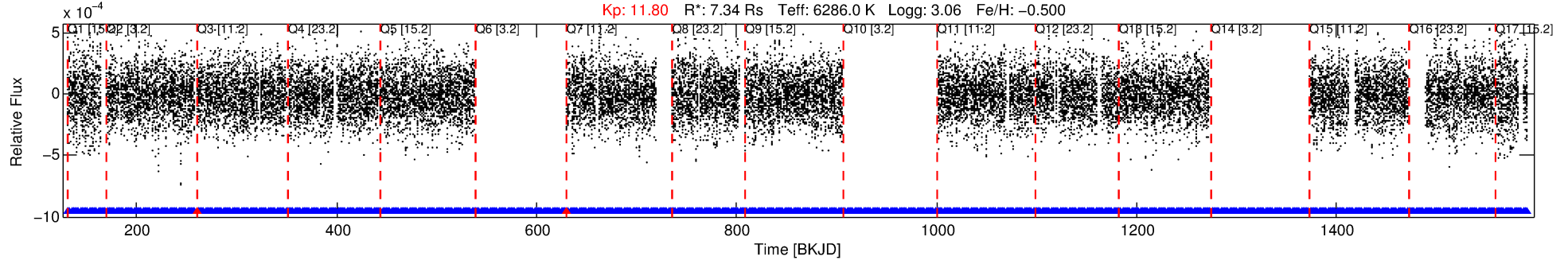
No Significant Match Found

DV One-Page Summary

KIC: 5025217 Candidate: 2 of 9 Period: 1.788 d

KOI: K06496 Corr: No Ephemeris Match

Kp: 11.80 R*: 7.34 Rs Teff: 6286.0 K Logg: 3.06 Fe/H: -0.500



DV Fit Results:

Period = 1.78761 [0.00002] d
Epoch = 131.5328 [0.0074] BKJD
Rp/R* = 0.0100 [0.0063]
a/R* = 1.07 [0.03]
b = 1.00 [0.01]
Seff = 53036.05 [39879.45]
Teq = 3870 [727] K
Rp = 7.98 [6.34] Re
a = 0.0377 [0.0176] AU
Ag = 0.16 [0.25] [-3.40σ]
Teffp = 3776 [1298] K [-0.06σ]

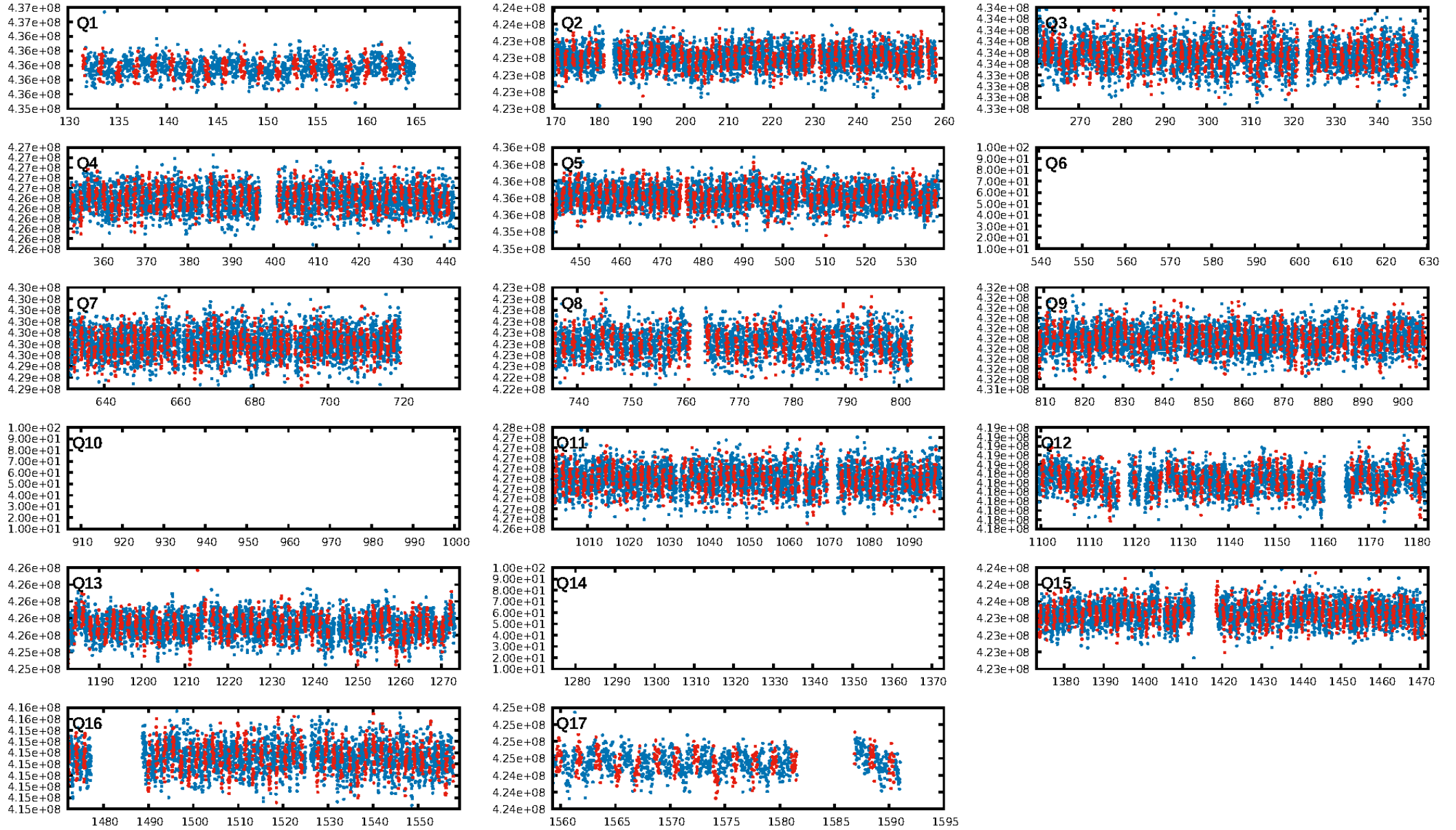
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [34.30σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [571/573]
GhostDiagnostic-chr: 1.638
Centroid-sig: N/A
Centroid-so: 0.492 arcsec [1.25σ]
OotOffset-rm: 0.320 arcsec [1.06σ]
KicOffset-rm: 0.320 arcsec [0.95σ]
OotOffset-st: 1/4/4/5 [14]
KicOffset-st: 1/4/4/5 [14]
DiffImageQuality-fgm: 0.86 [12/14]
DiffImageOverlap-fno: 1.00 [14/14]

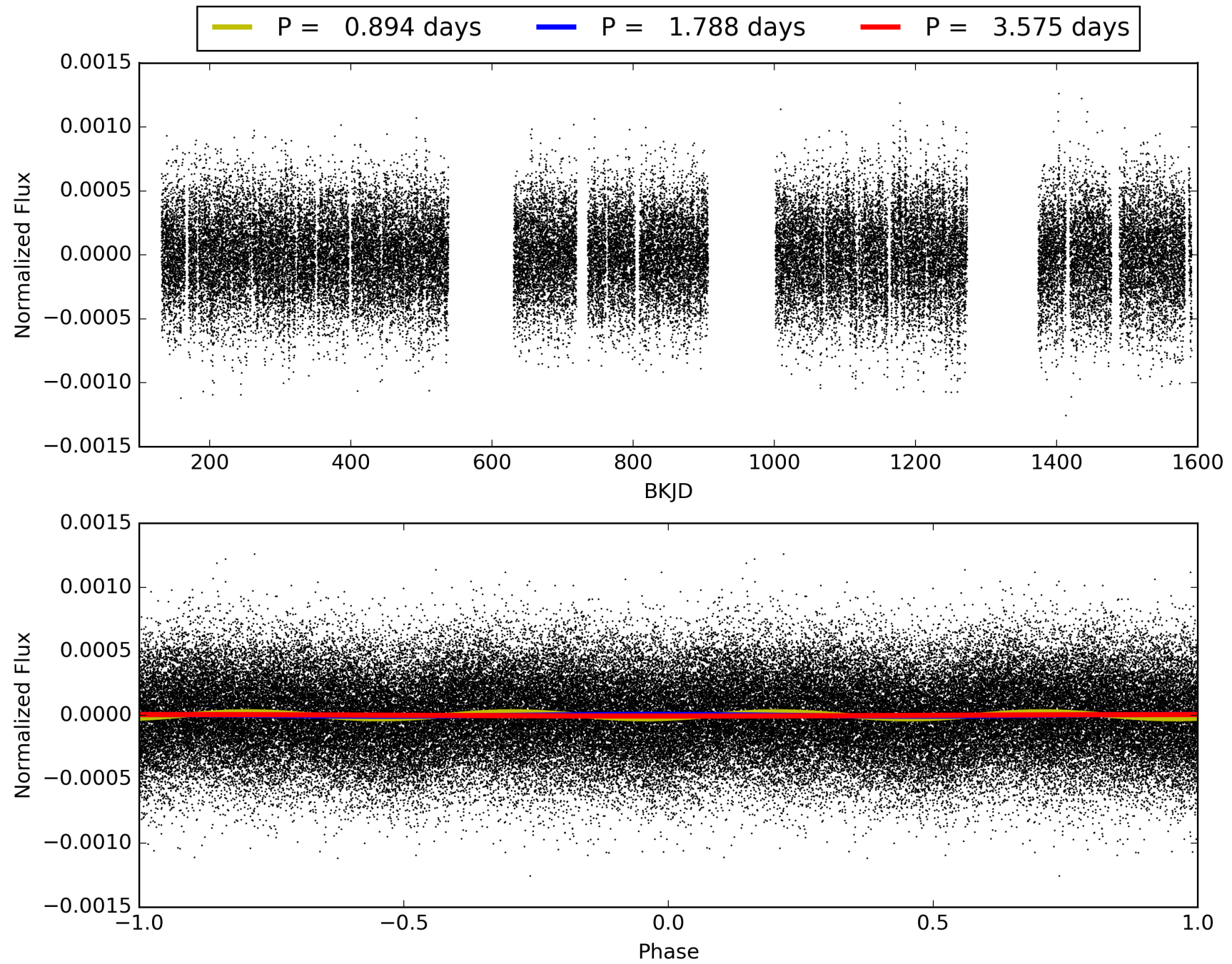
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 06:18:29 Z

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

TCE 005025217-02, PDC Light Curves

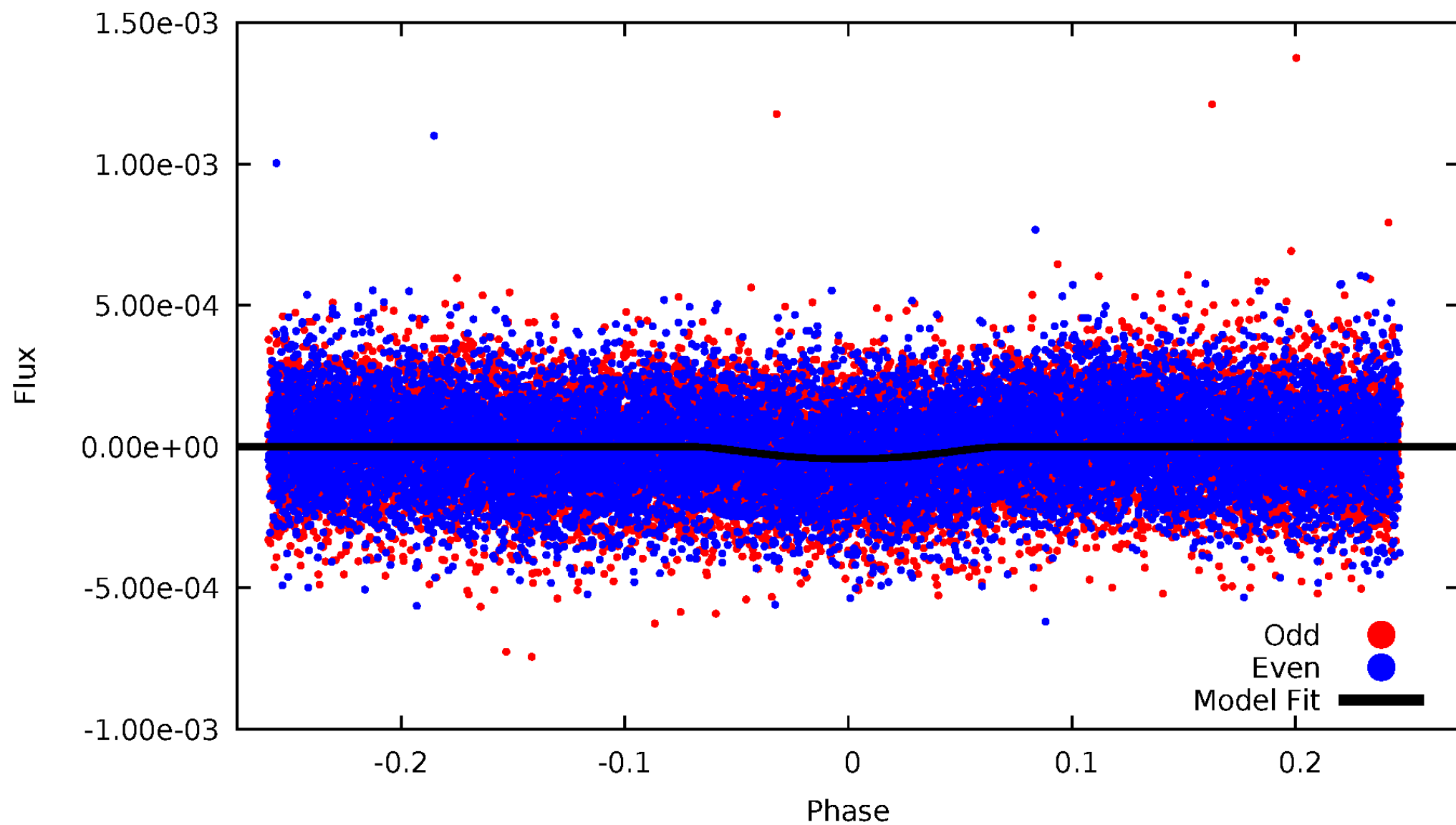


TCE 005025217-02



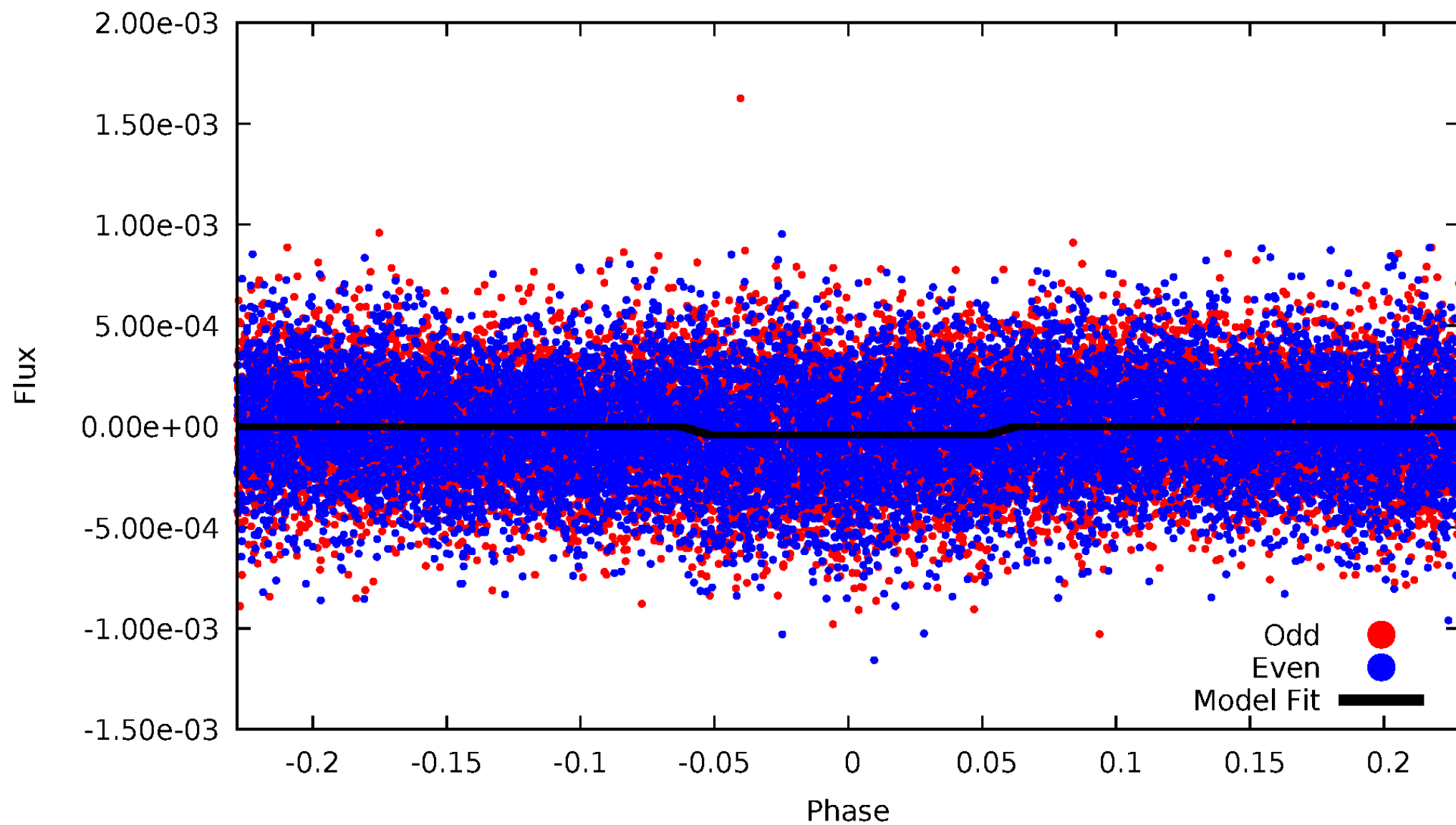
DV Odd/Even

TCE 005025217-02



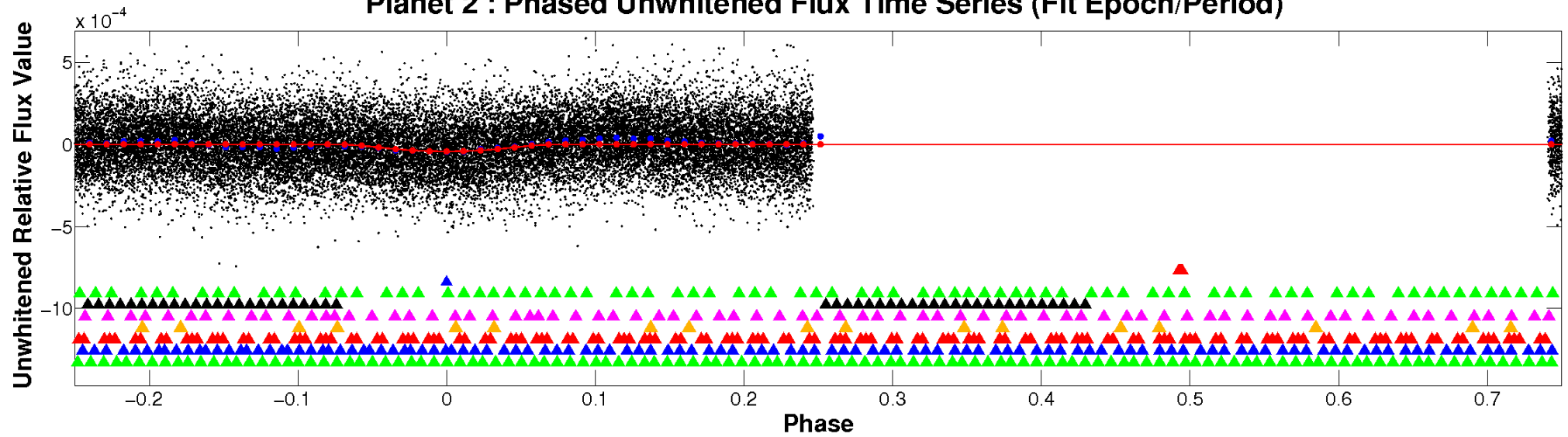
ALT Odd/Even

TCE 005025217-02

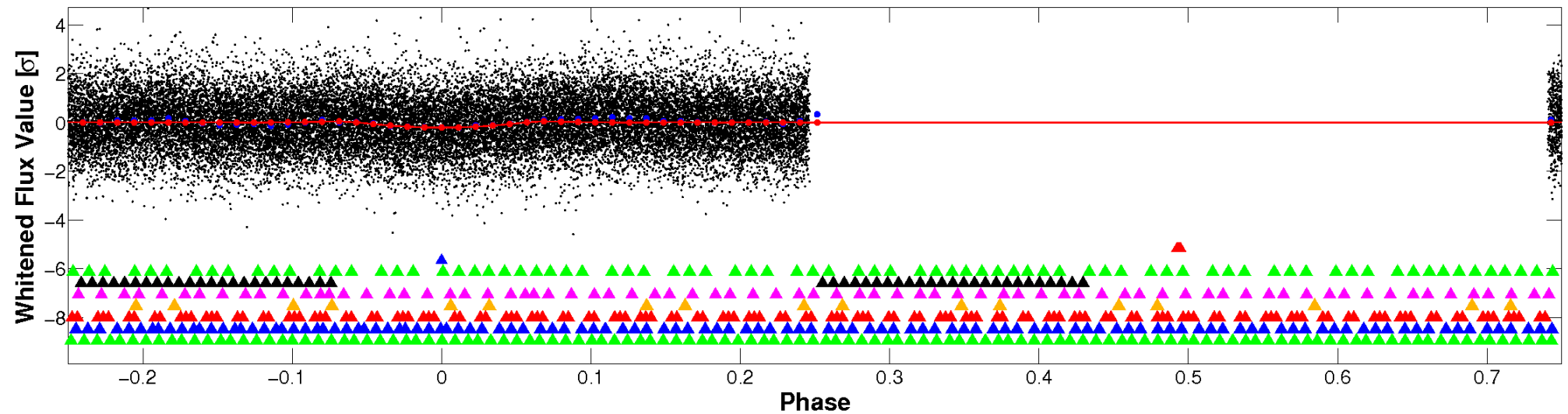


Non-Whitened Vs. Whitened Light Curve

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

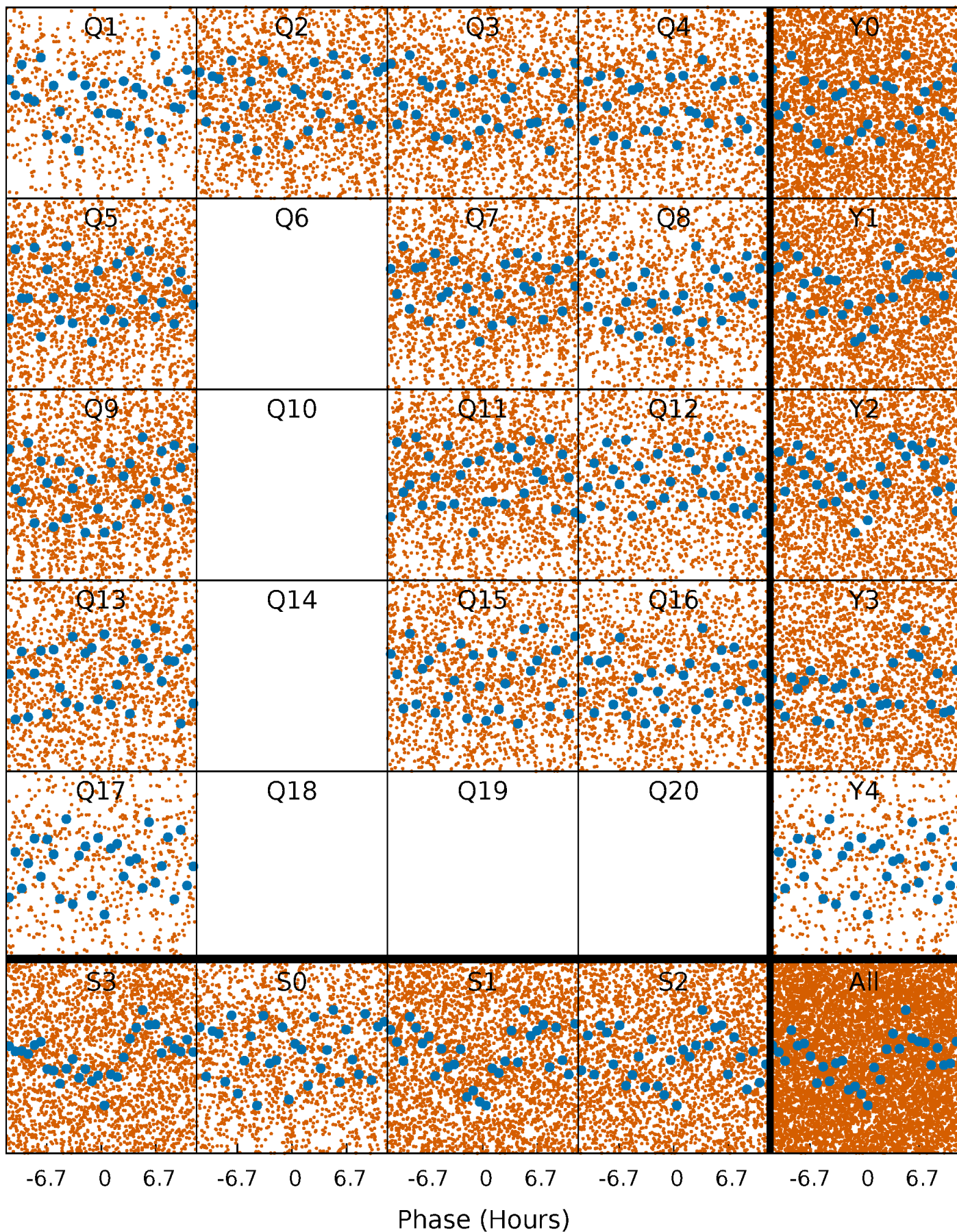


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



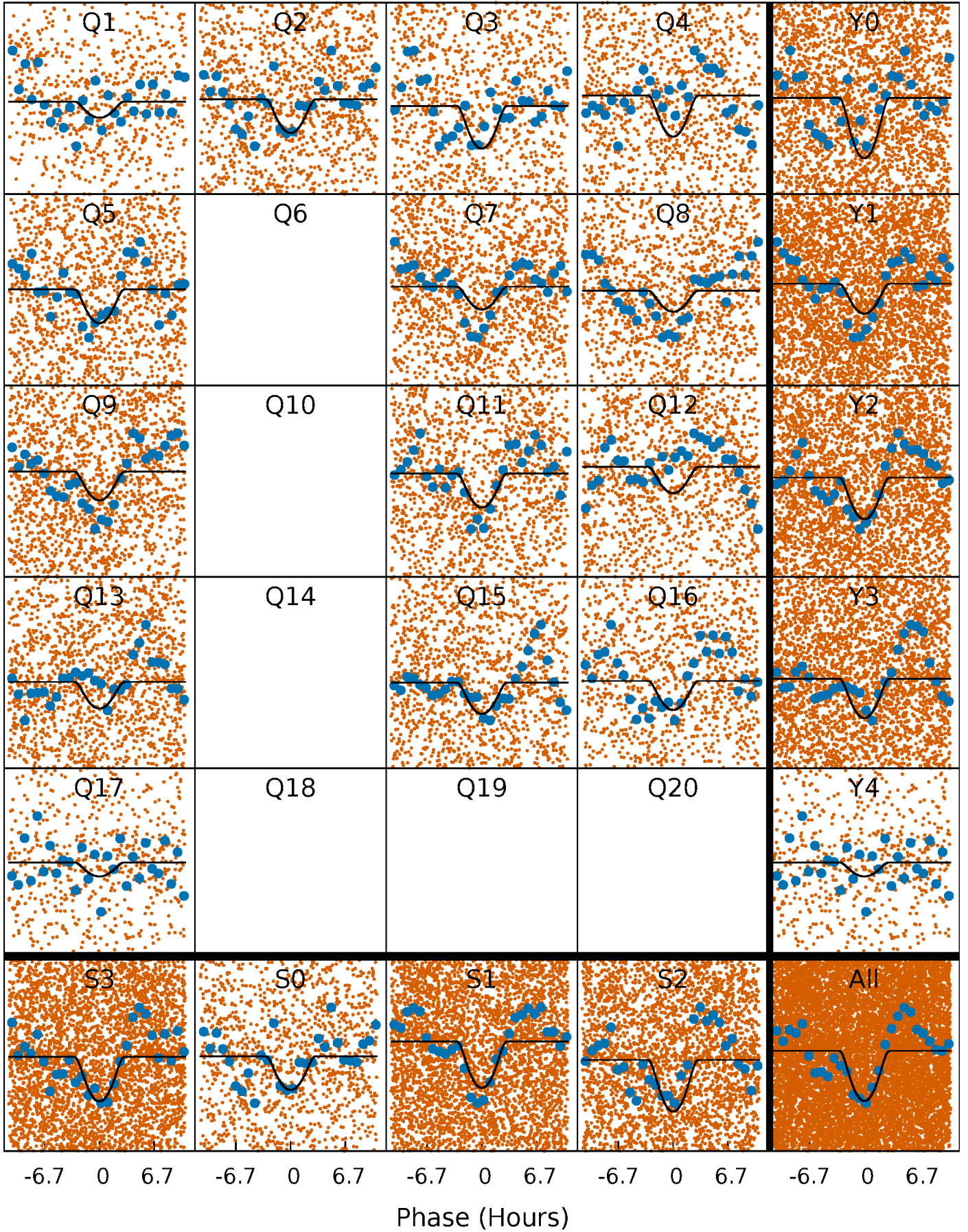
PDC Quarter-Phased Transit Curves

TCE 005025217-02 P= 1.787610 Days $T_0=131.532827$ (BKJD)



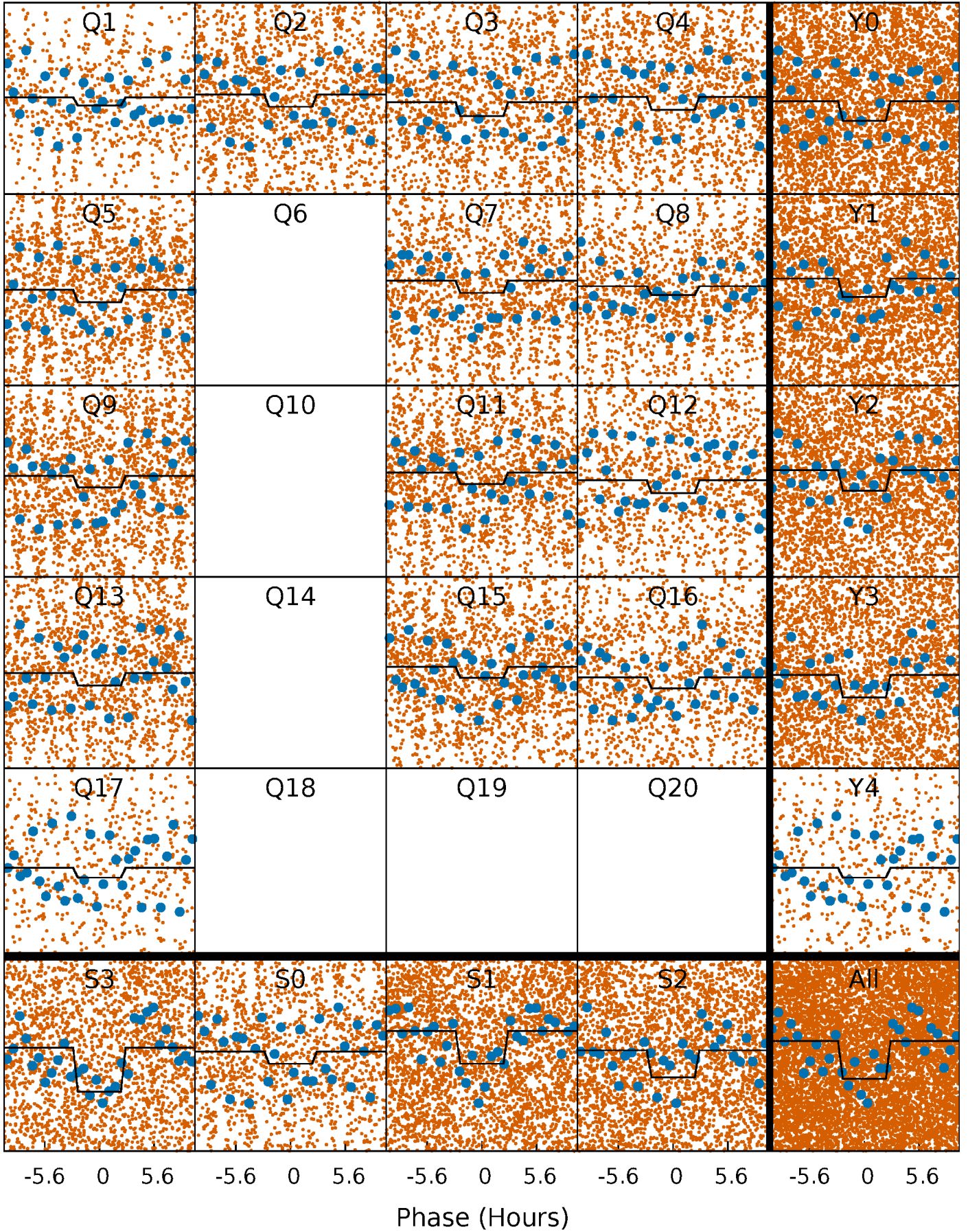
DV Quarter-Phased Transit Curves

TCE 005025217-02 P= 1.787610 Days $T_0=131.532827$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

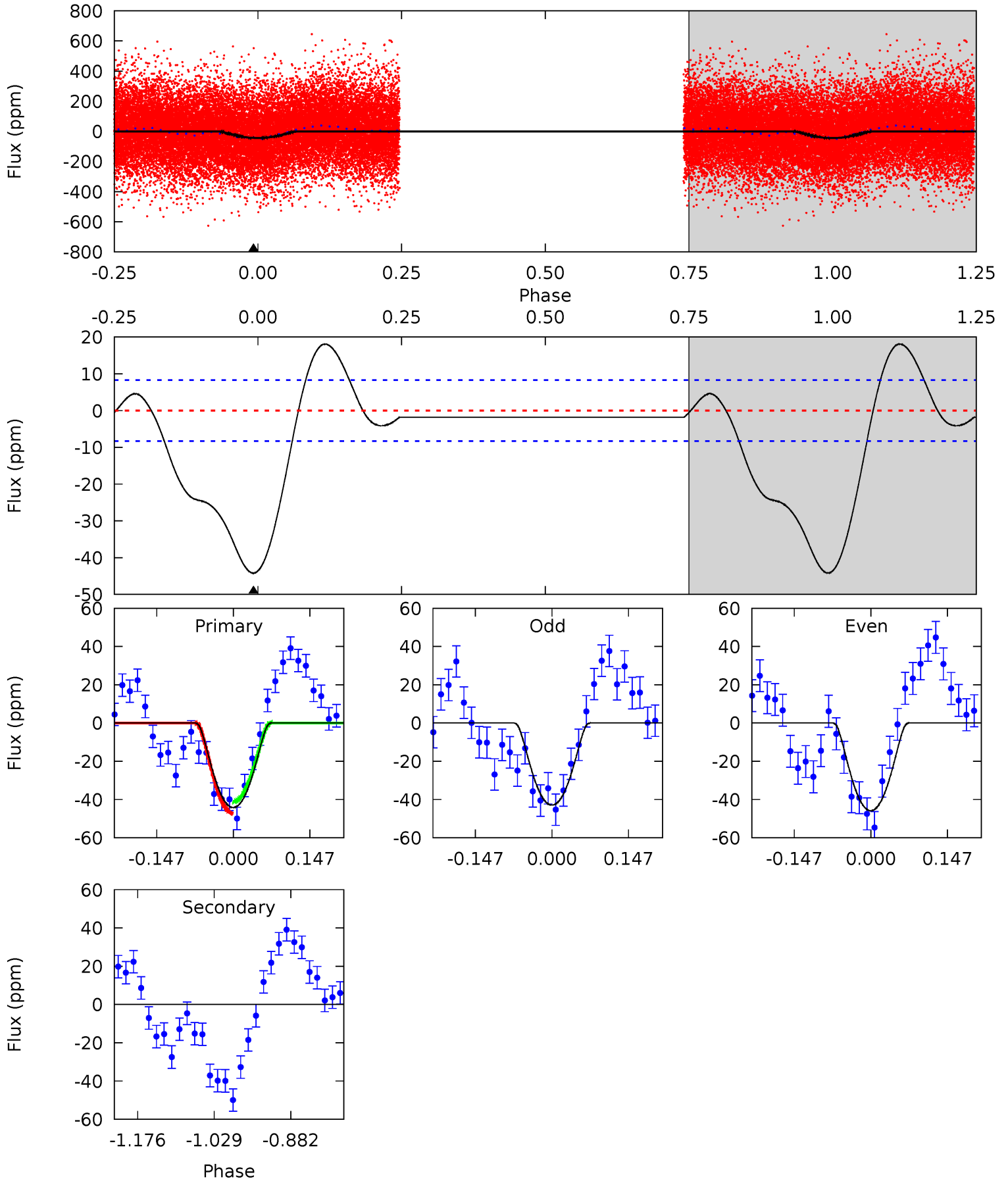
TCE 005025217-02 P= 1.787648 Days $T_0=131.524017$ (BKJD)



DV Model-Shift Uniqueness Test

005025217-02, P = 1.787610 Days, E = 129.745217 Days

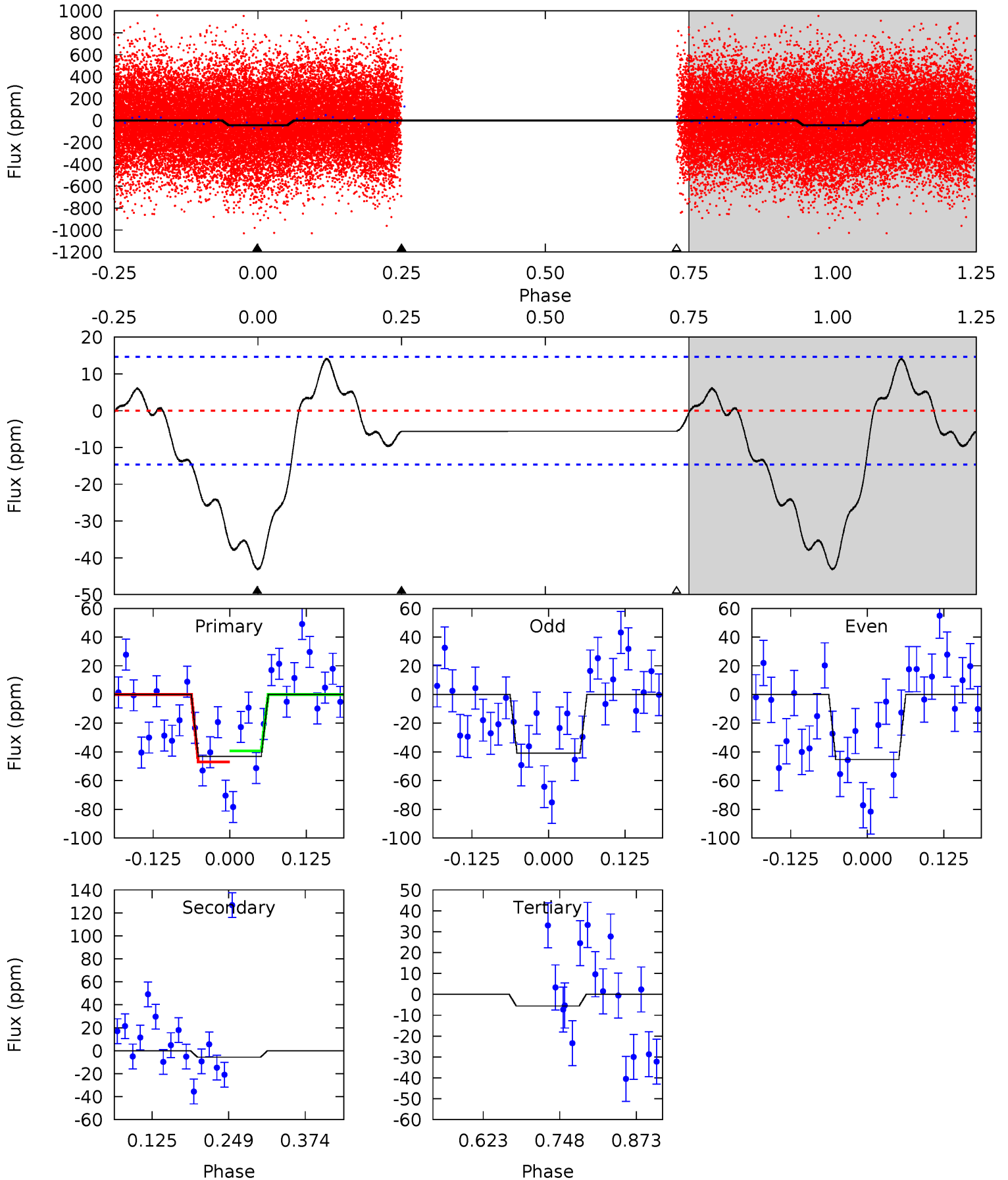
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.9	0	0	0	4.48	1.45	2.86	23.9	23.9	0	0	0.79	0.86	0.29	1.71



Alt Model-Shift Uniqueness Test

005025217-02, P = 1.787648 Days, E = 129.736369 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.3	1.75	1.72	0	4.52	1.54	1.84	11.6	13.3	0.03	1.75	0.69	1.47	0.25	1.20



Stellar Parameters For KIC 005025217

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6286^{+157}_{-188}	$3.056^{+0.435}_{-0.145}$	$-0.500^{+0.350}_{-0.300}$	$7.342^{+1.923}_{-3.572}$	$2.233^{+0.311}_{-0.673}$	$0.008^{+0.034}_{-0.003}$
	+2%/-3%	+14%/-5%	+70%/-60%	+26%/-49%	+14%/-30%	+425%/-42%
Source	PHO1	FLK73	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 005025217-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 2	$7.46^{+5.49}_{-4.43}$	5293^{+439}_{-650}	-4506^{+502}_{-359}	$0.002^{+0.041}_{-0.032}$
Alt.	-6 ± 3	$5.61^{+4.67}_{-3.50}$	5294^{+419}_{-616}	-4001^{+9007}_{-563}	$0.119^{+0.790}_{-0.095}$

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 $A_{obs} \gg 1.0$

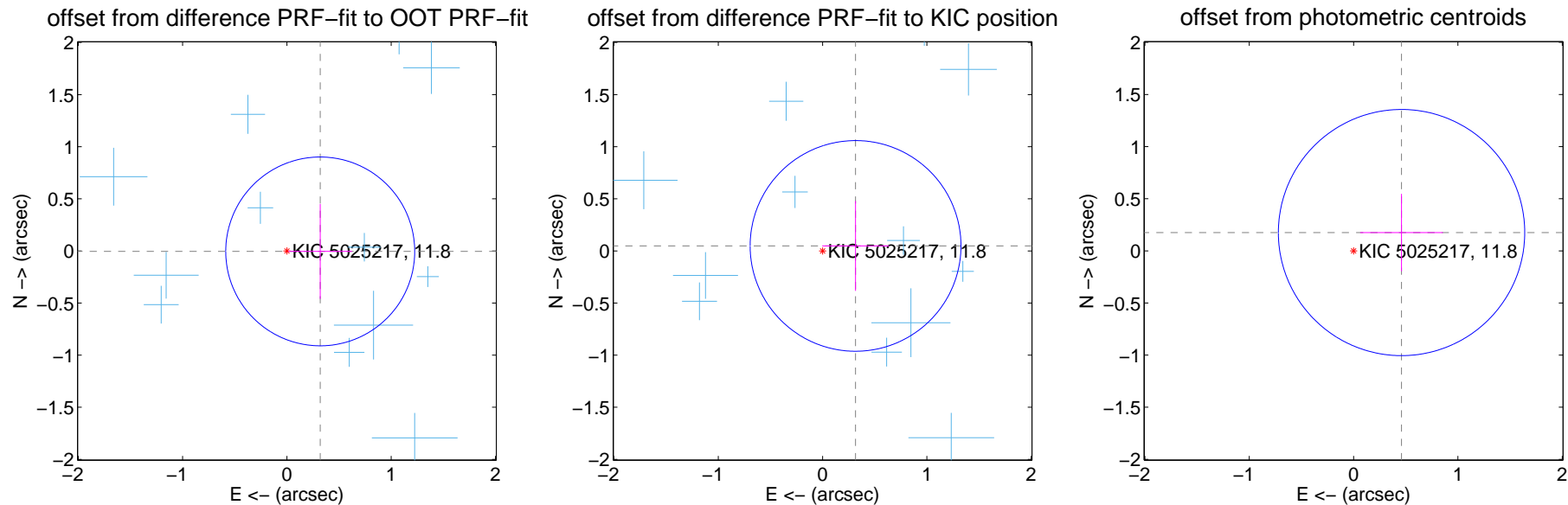
DV Centroid Data

Supplemental centroid analysis for 005025217-02. **Kepler magnitude: 11.80.** Transit SNR 11.14

There are 12 quarters with good PRF difference image offsets

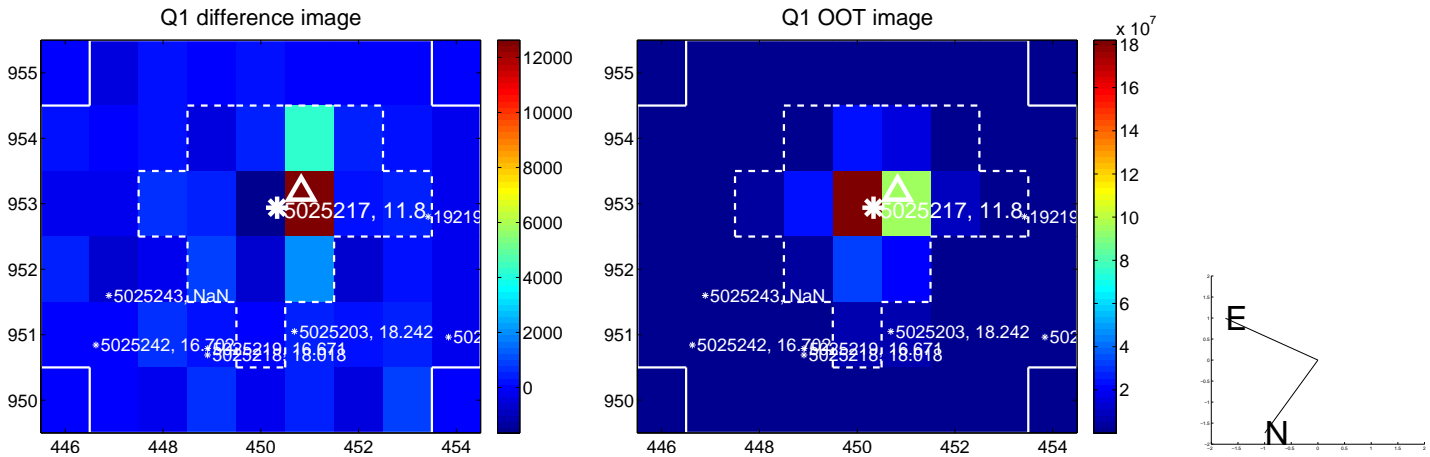
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.320 ± 0.302	1.06	-0.320 ± 0.304	-0.005 ± 0.455
PRF-fit source offset from KIC position	0.320 ± 0.337	0.95	-0.316 ± 0.320	0.048 ± 0.432
photometric centroid source offset	0.49 ± 0.39	1.25	-0.46 ± 0.40	0.18 ± 0.37

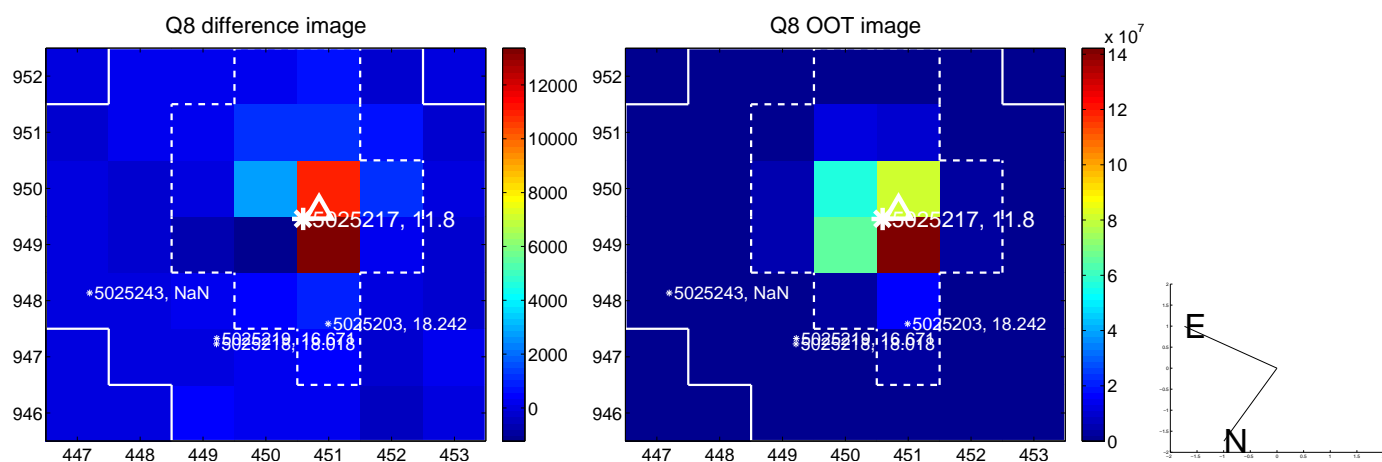
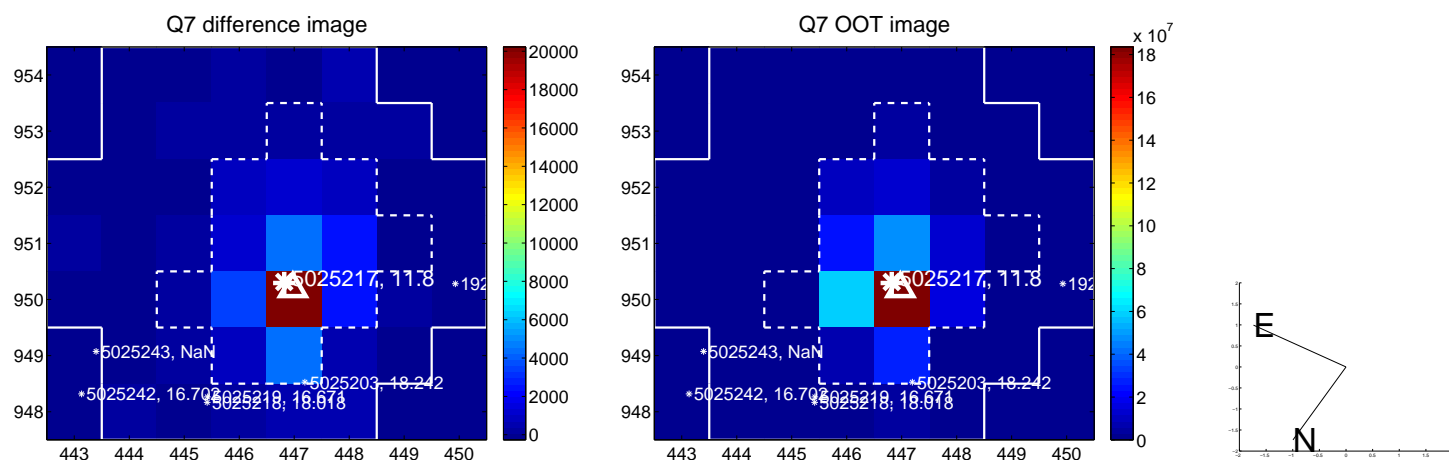
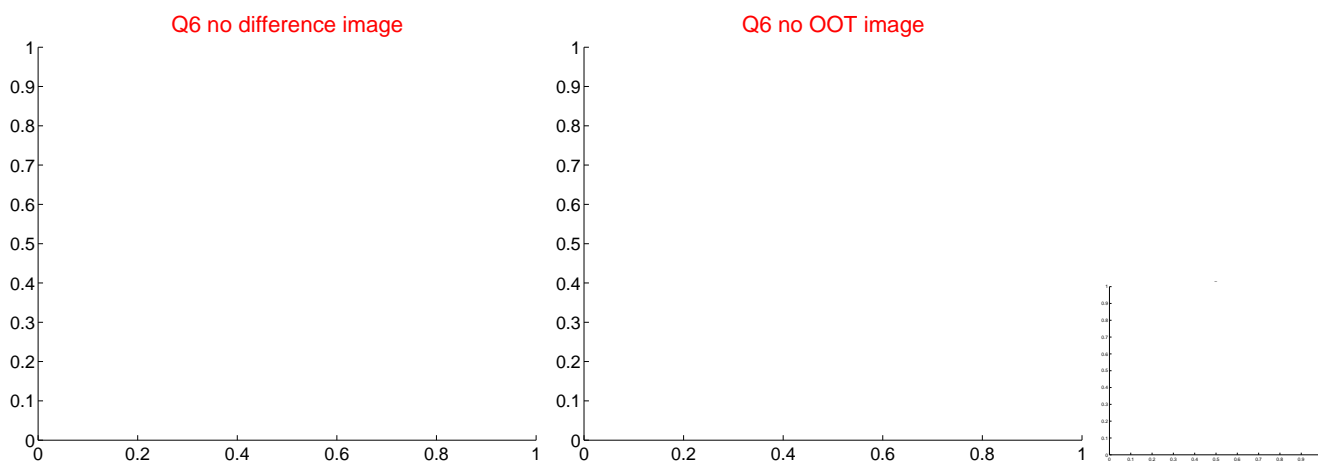
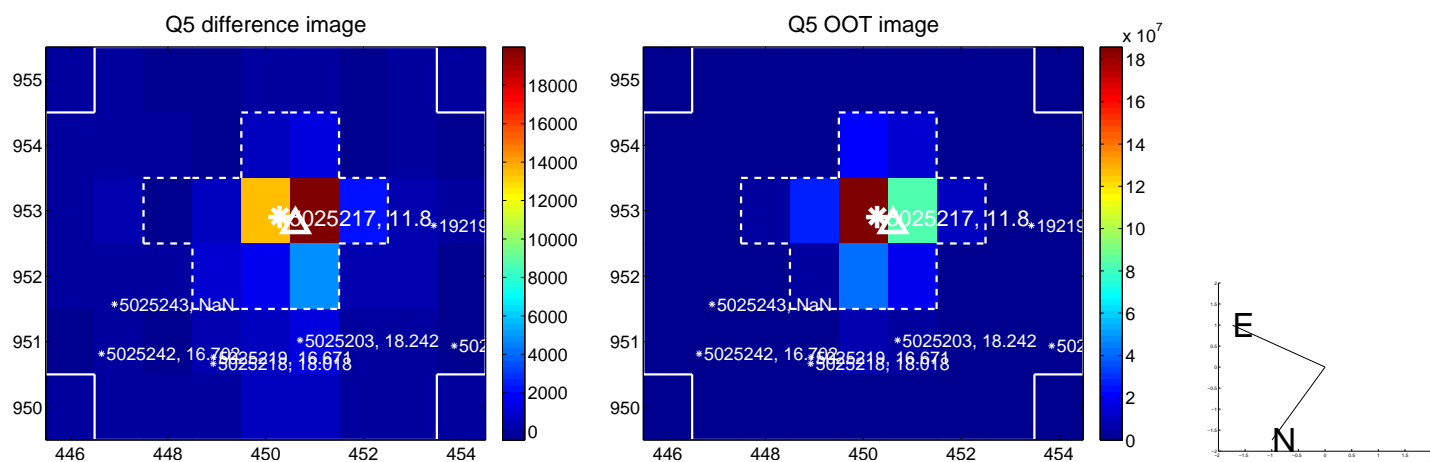


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

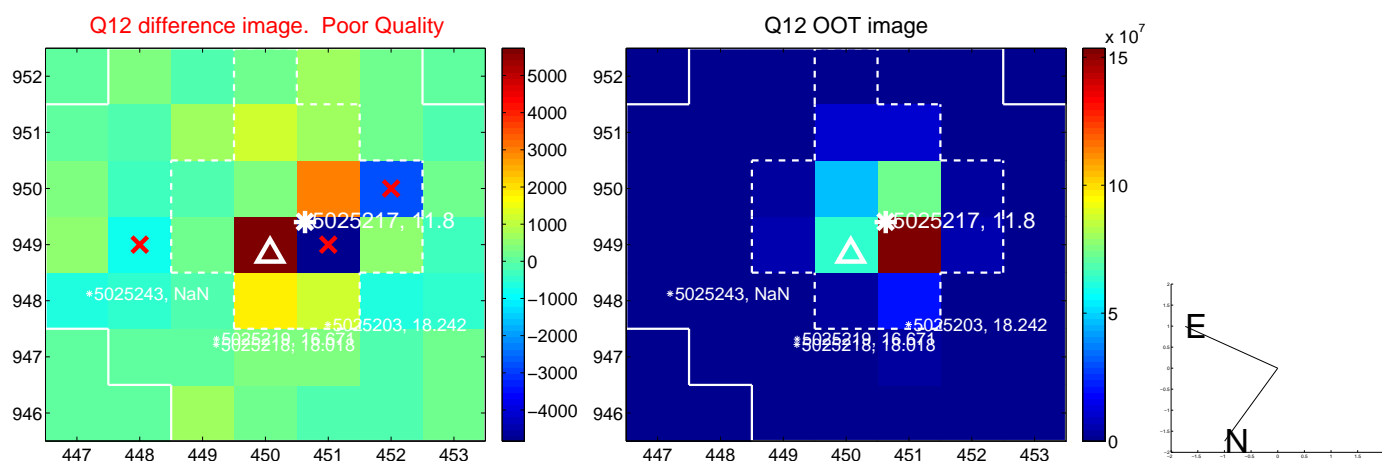
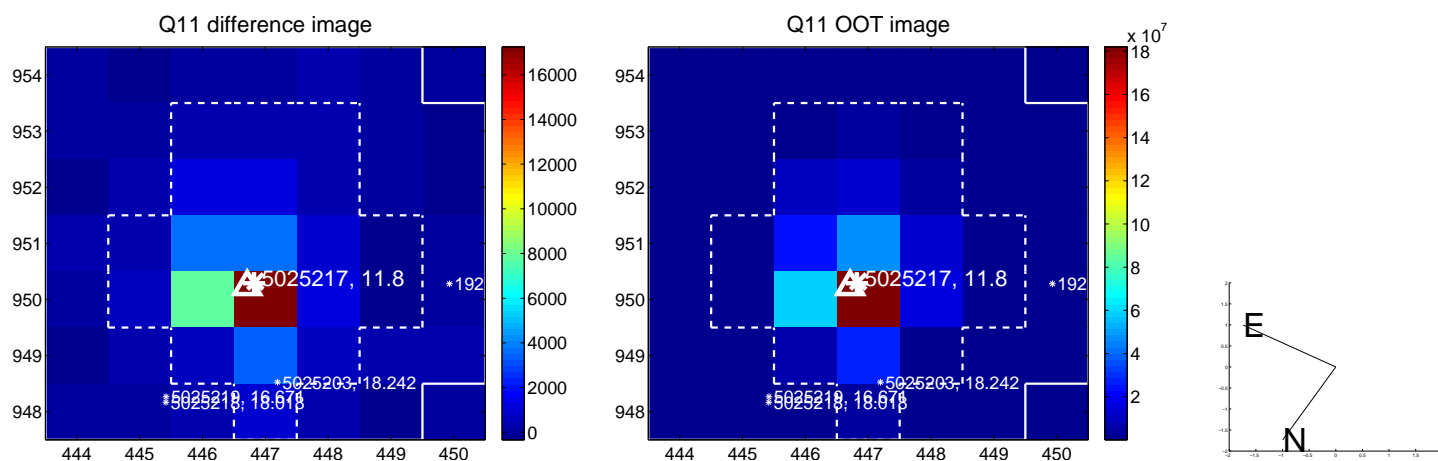
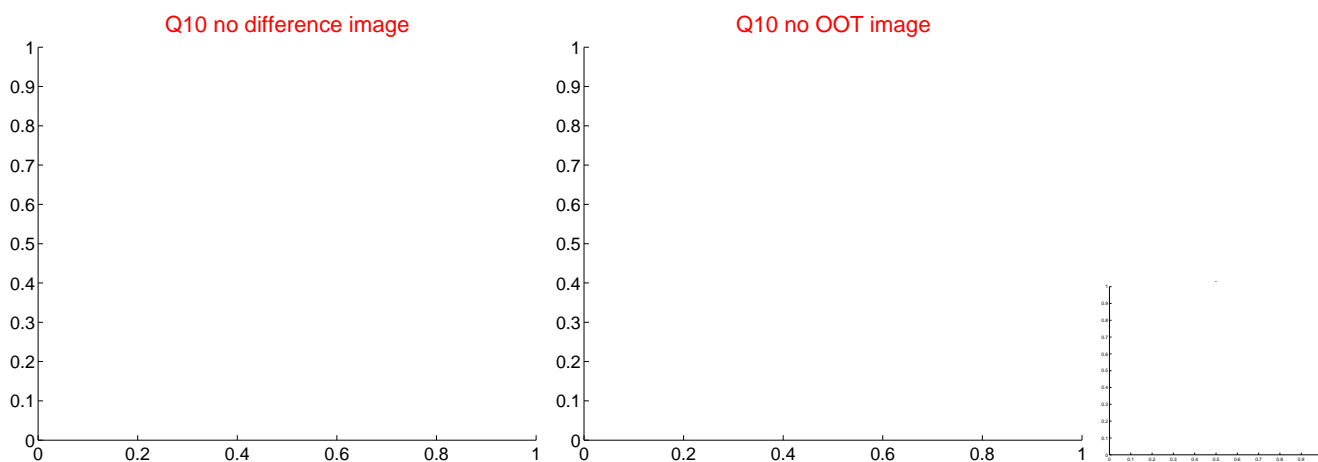
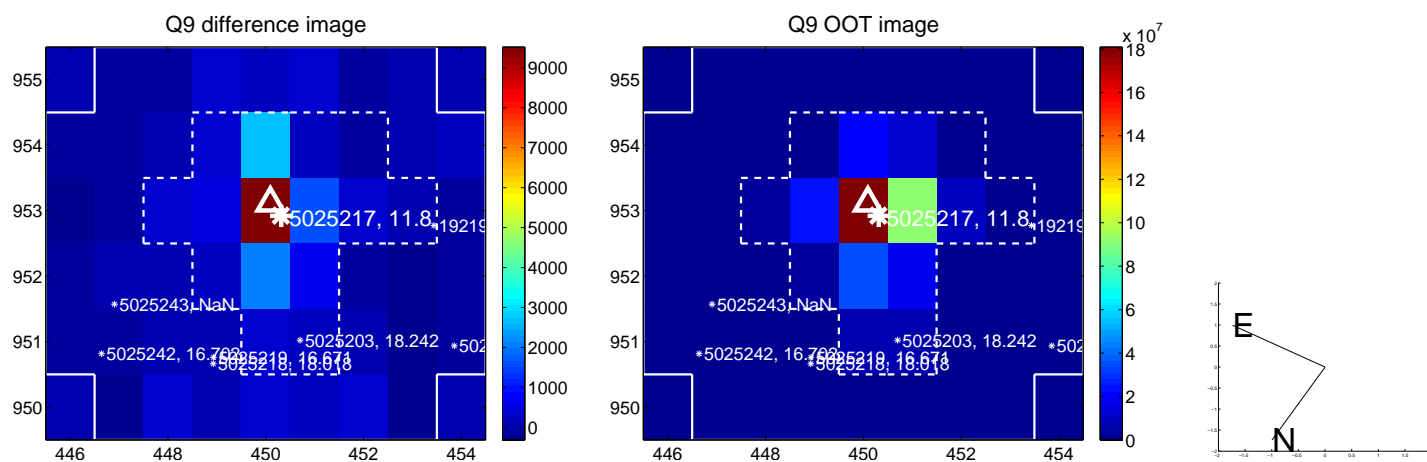
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



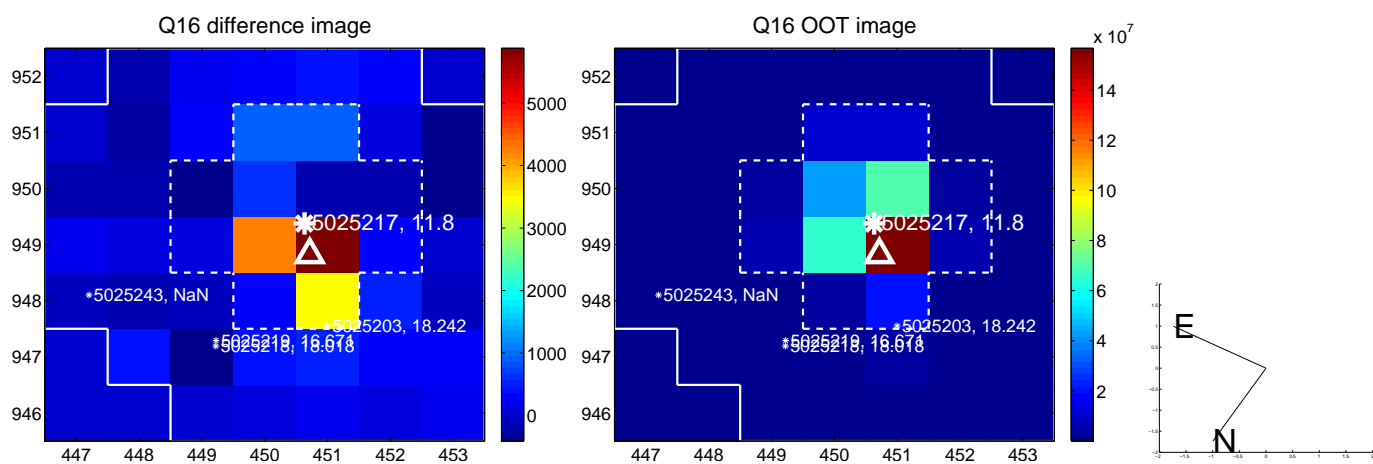
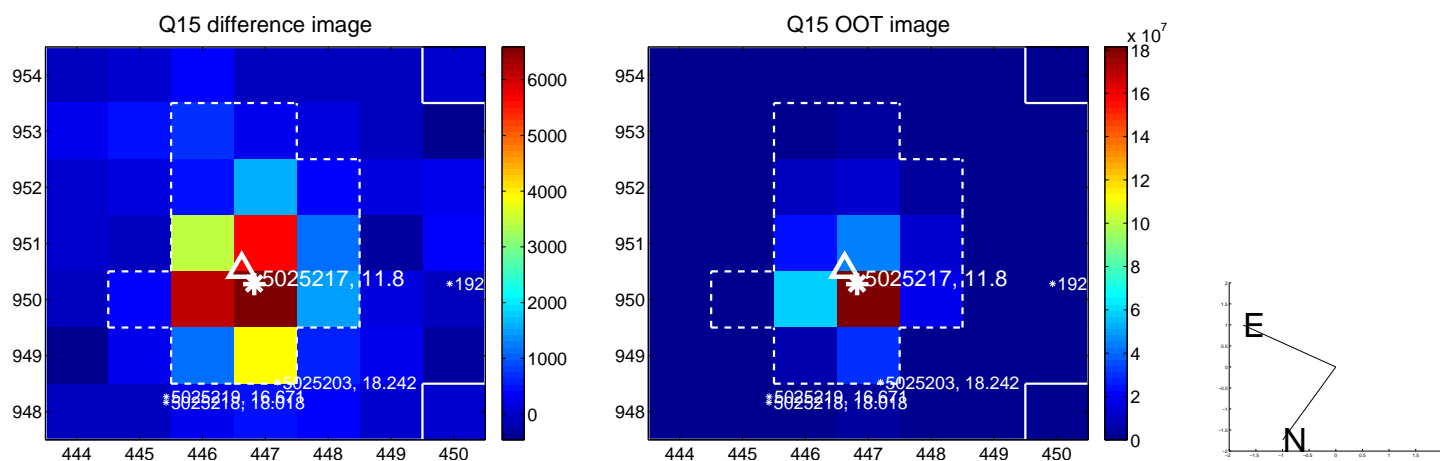
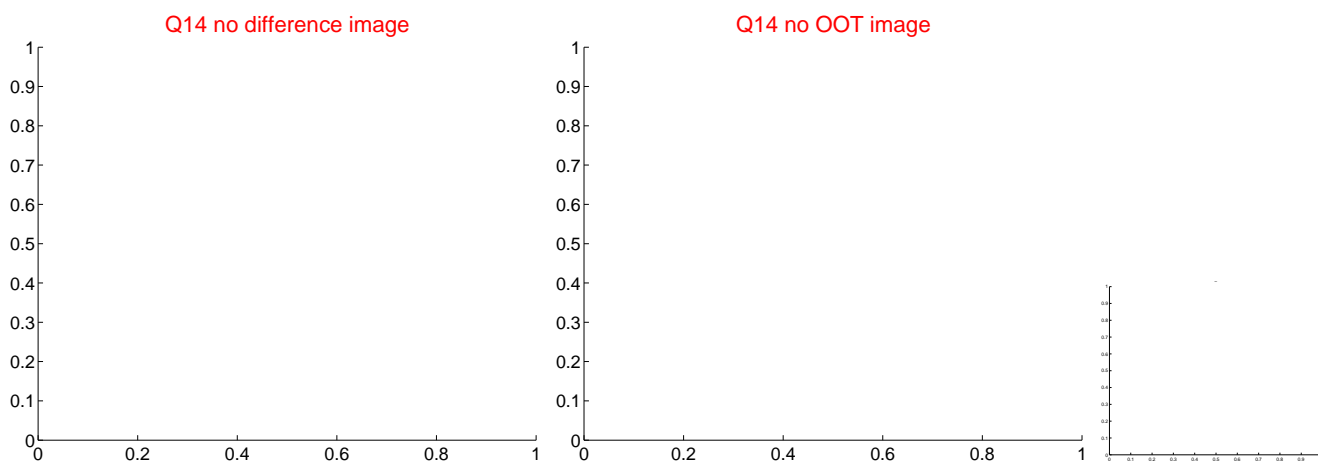
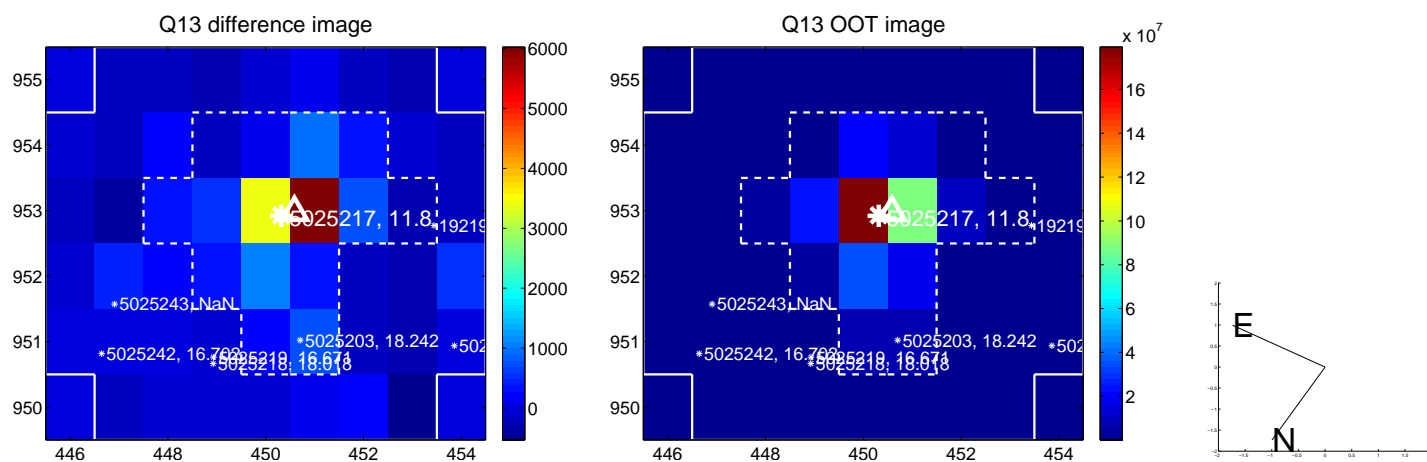
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



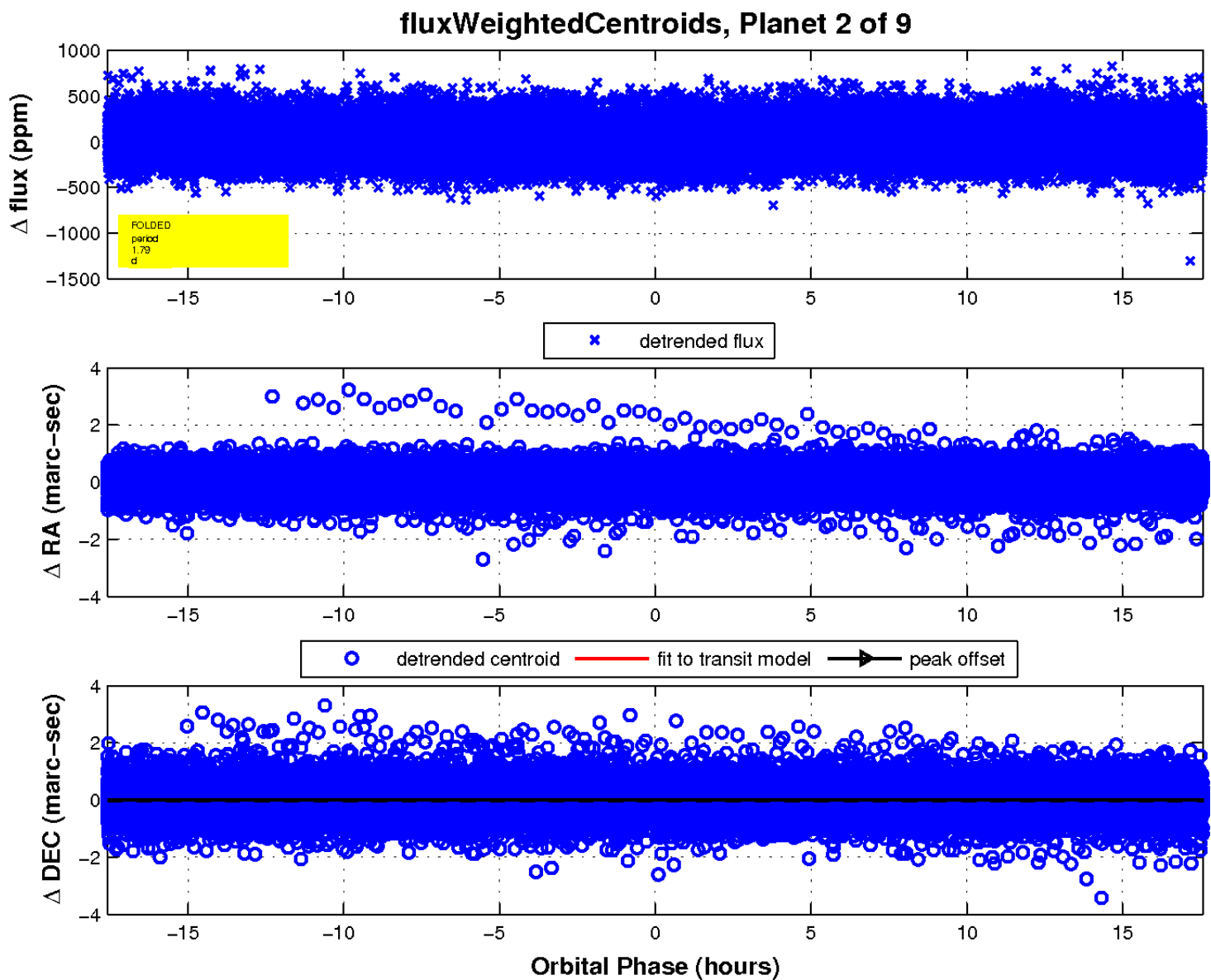
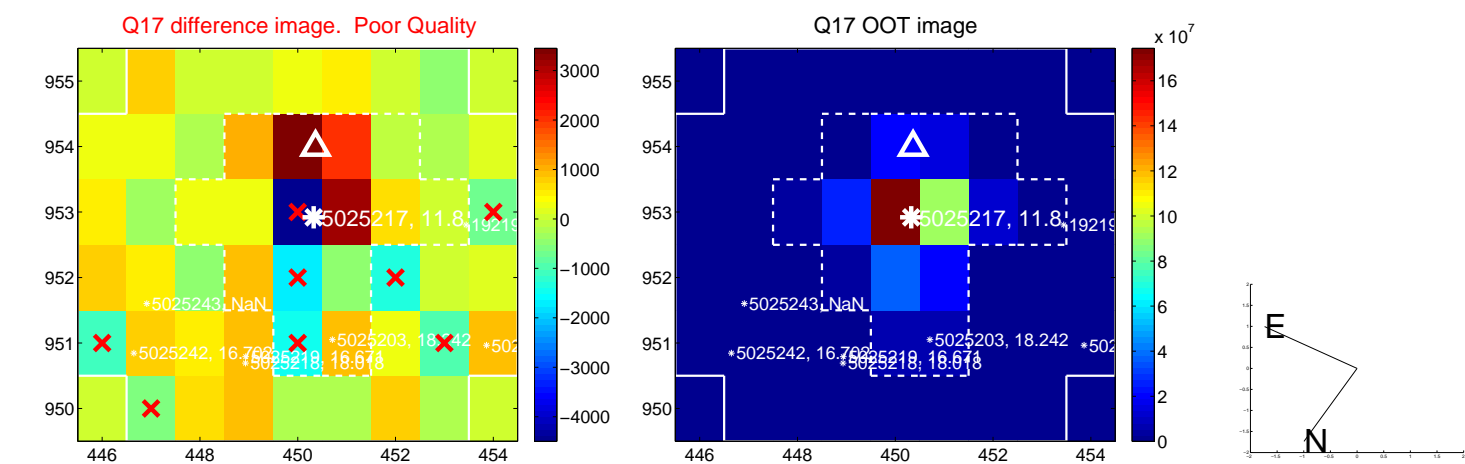
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

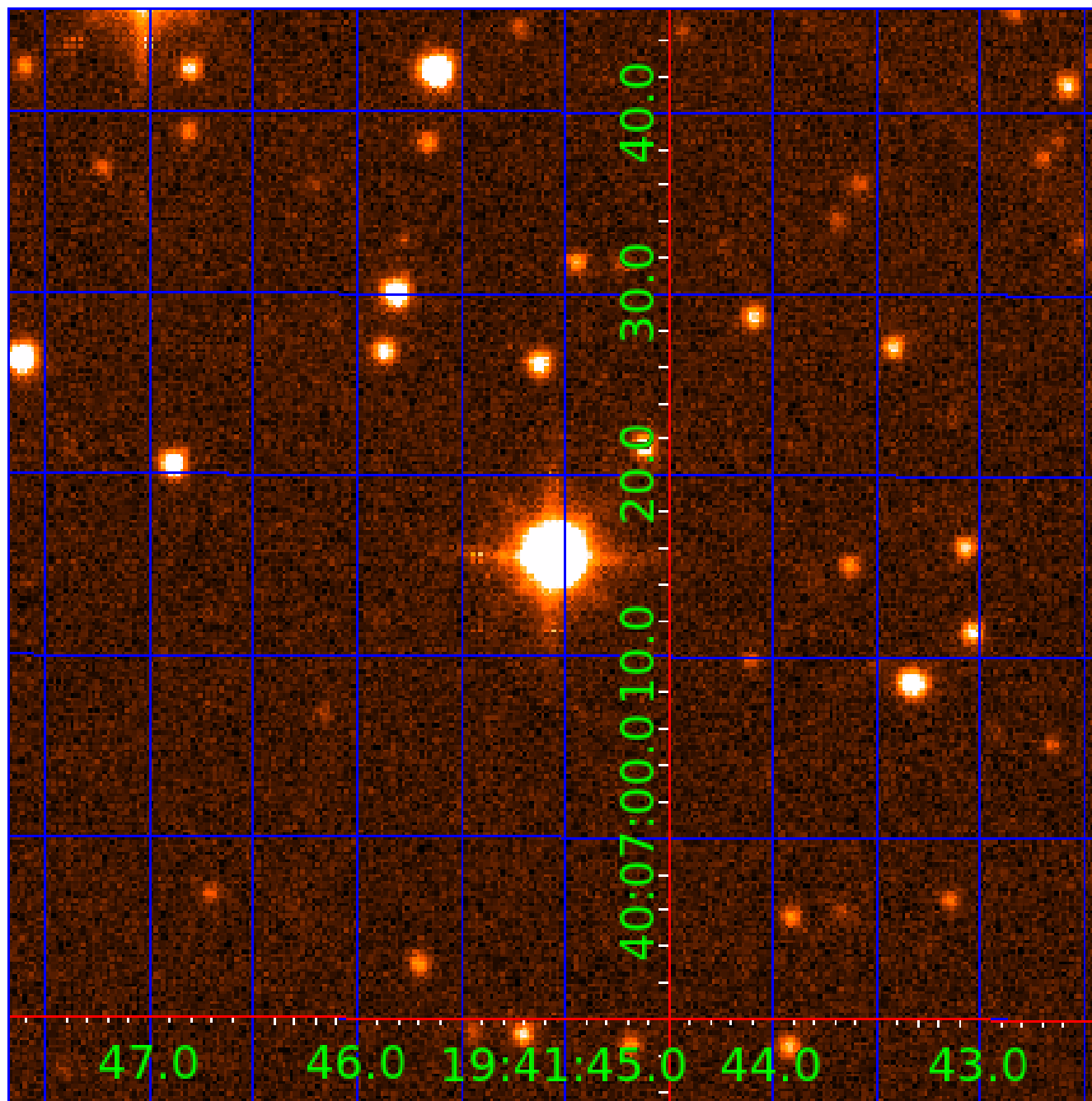


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005025217

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})
005025217-01	OBS	6496.01	1.787604	132.417372	26.4	6.928	10.2	7.7	7.34	6286	4.55	53036.26
005025217-02	OBS	No	1.787610	131.532827	43.6	5.860	10.5	11.1	7.34	6286	7.98	53036.05
005025217-03	OBS	No	18.447369	148.951248	218.2	8.613	9.2	8.9	7.34	6286	12.39	2360.60
005025217-04	OBS	No	29.489063	159.114814	255.0	5.450	9.3	7.6	7.34	6286	15.32	1262.95
005025217-05	OBS	No	19.418689	137.006080	201.0	8.561	8.8	8.4	7.34	6286	11.88	2204.49
005025217-06	OBS	No	86.793263	178.302201	475.1	4.020	8.5	8.4	7.34	6286	18.10	299.42
005025217-07	OBS	No	10.595765	139.960544	215.0	1.911	8.0	7.8	7.34	6286	12.51	4944.15
005025217-08	OBS	No	12.464005	142.264307	176.1	2.619	8.0	7.3	7.34	6286	10.22	3981.60
005025217-09	OBS	No	12.084867	134.855286	99.8	3.500	7.9	-1.0	7.34	6286	7.37	4149.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005025217-01	OBS	FP	0.00	1	0	0	0	LPP_DV
005025217-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005025217-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005025217-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_NOFITS

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.

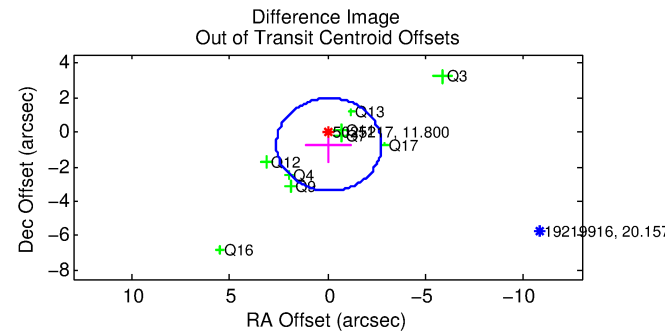
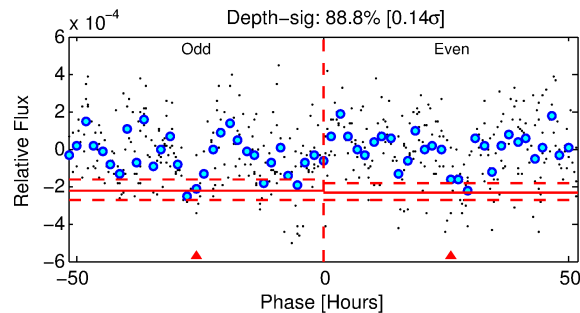
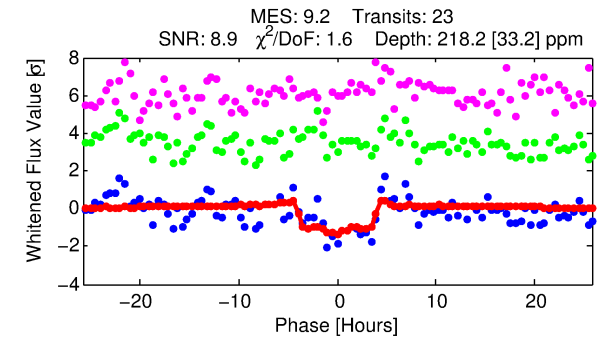
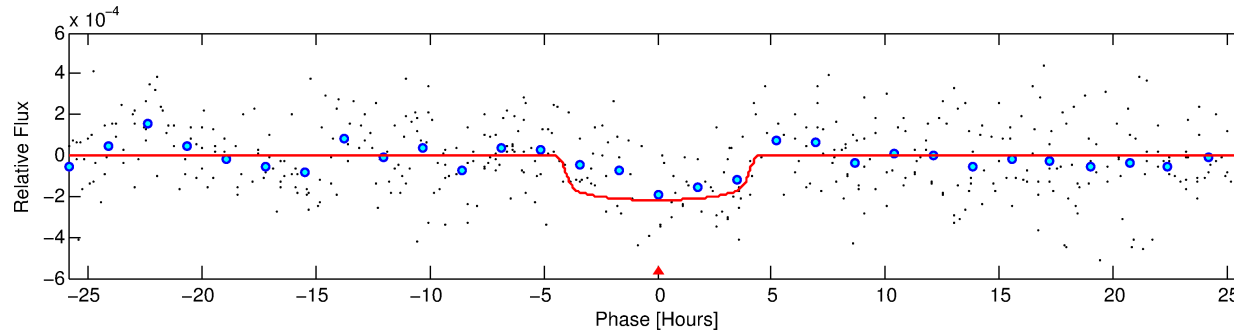
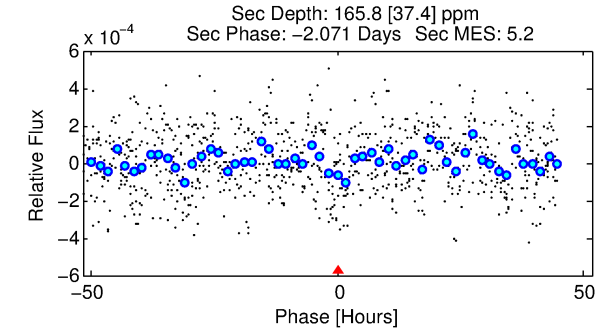
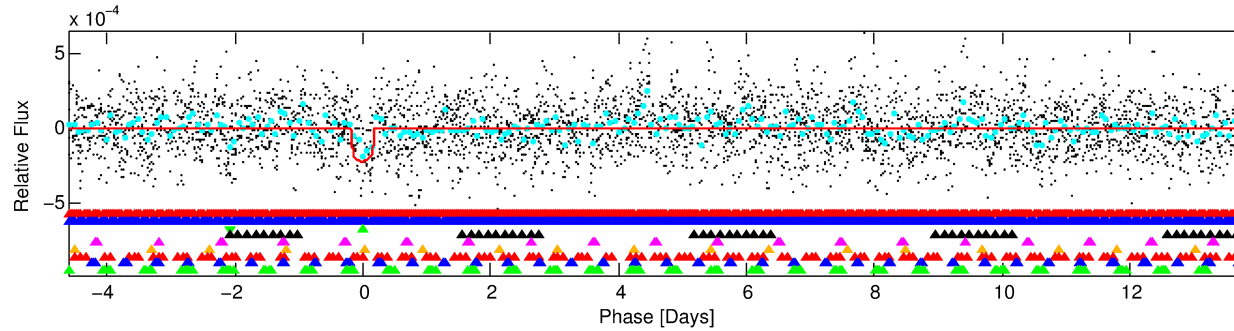
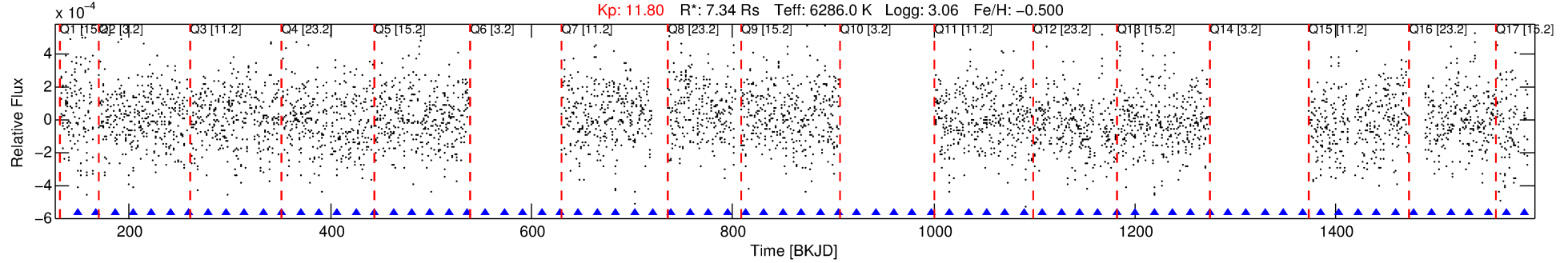
Ephemeris Match Information For 005025217-03

No Significant Match Found

DV One-Page Summary

KIC: 5025217 Candidate: 3 of 9 Period: 18.447 d
KOI: K06496 Corr: No Ephemeris Match

Kp: 11.80 R*: 7.34 Rs Teff: 6286.0 K Logg: 3.06 Fe/H: -0.500



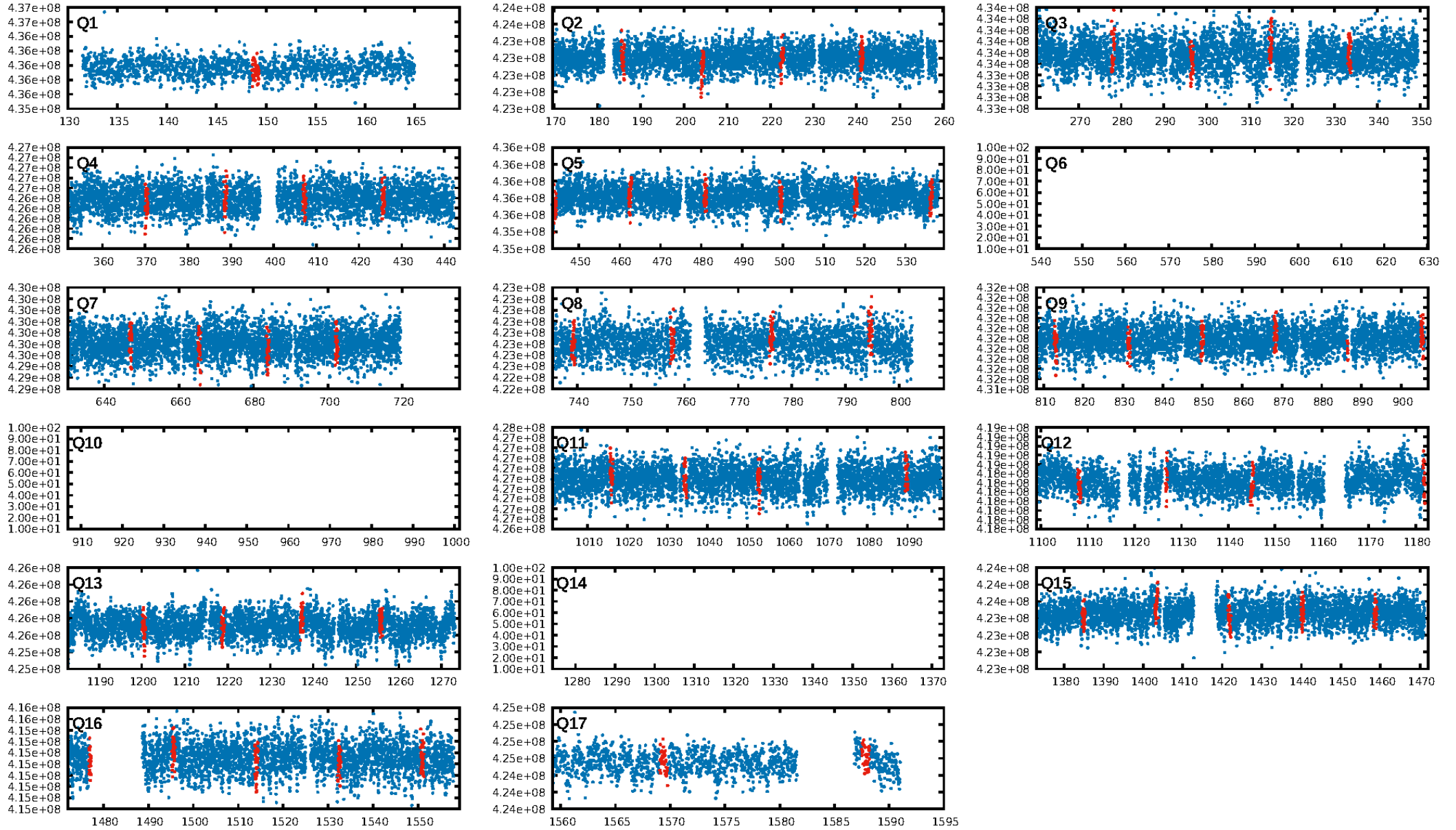
DV Fit Results:

Period = 18.44737 [0.00040] d
Epoch = 148.9512 [0.0165] BKJD
Rp/R* = 0.0155 [0.0036]
a/R* = 8.68 [10.38]
b = 0.87 [0.35]
Seff = 2360.60 [1775.01]
Teq = 1777 [334] K
Rp = 12.39 [6.69] Re
a = 0.1787 [0.0832] AU
Ag = 18.98 [17.22] [1.04 σ]
Teffp = 5736 [767] K [4.73 σ]

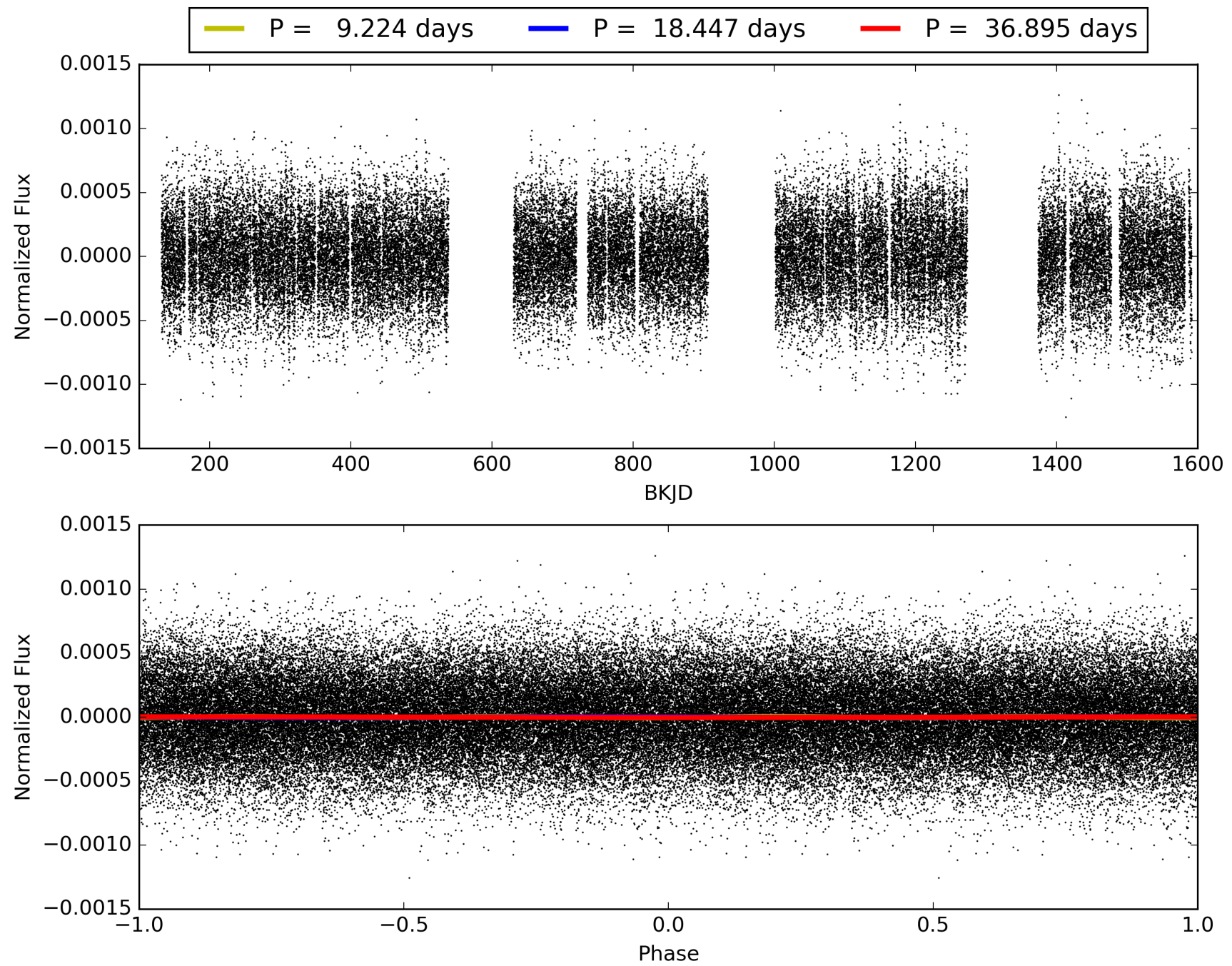
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [15.95 σ]
LongPeriod-sig: 94.5% [1.92 σ]
ModelChiSquare2-sig: 0.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [21/21]
GhostDiagnostic-chr: 0.0007374
Centroid-sig: N/A
Centroid-so: 0.247 arcsec [1.29 σ]
OotOffset-rm: 0.727 arcsec [0.81 σ]
OotOffset-st: 0/3/3/3 [9]
KicOffset-rm: 0.718 arcsec [0.90 σ]
KicOffset-st: 0/3/3/3 [9]
DiffImageQuality-fgm: 0.44 [4/9]
DiffImageOverlap-fno: 0.00 [0/14]

TCE 005025217-03, PDC Light Curves

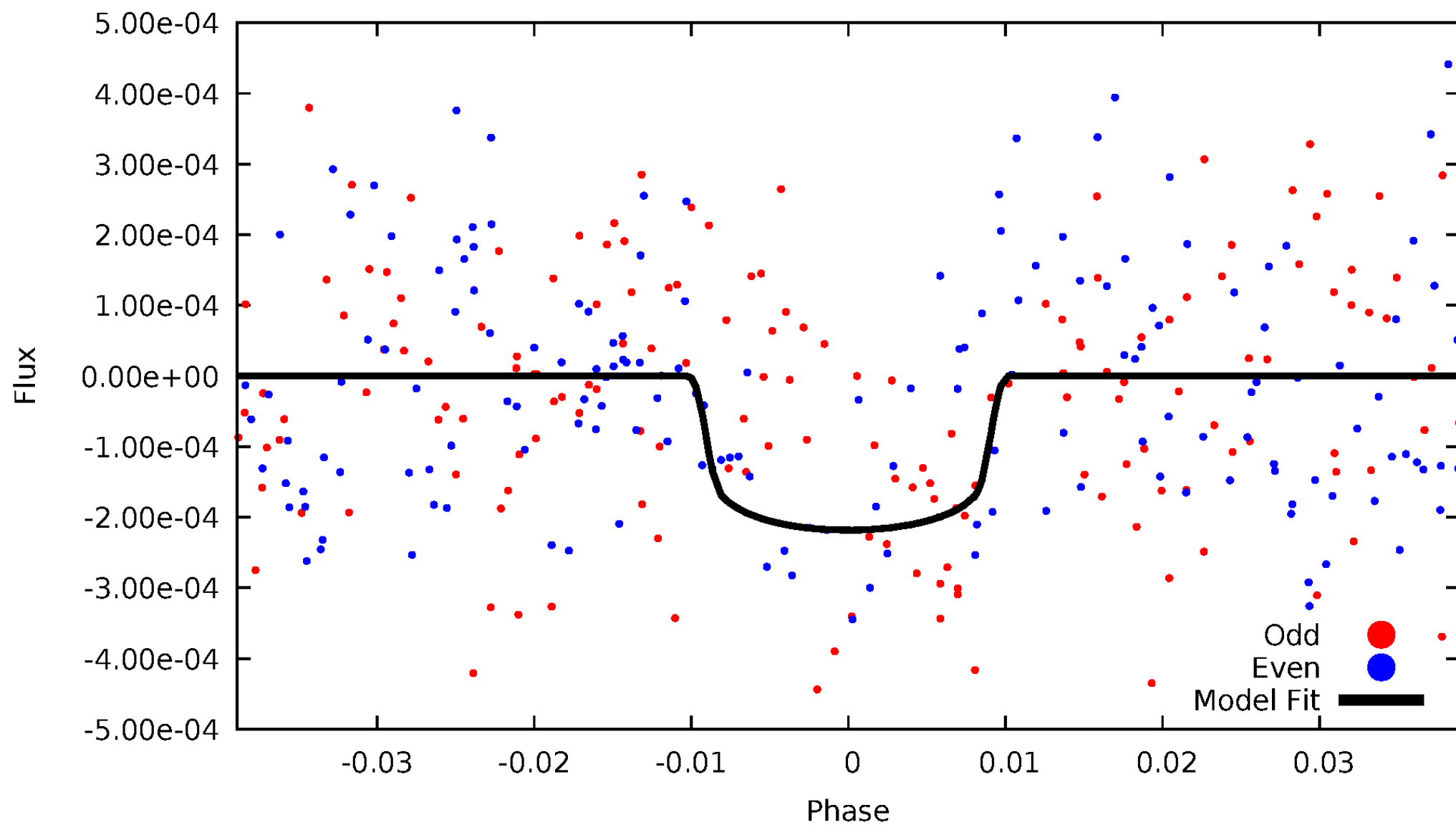


TCE 005025217-03



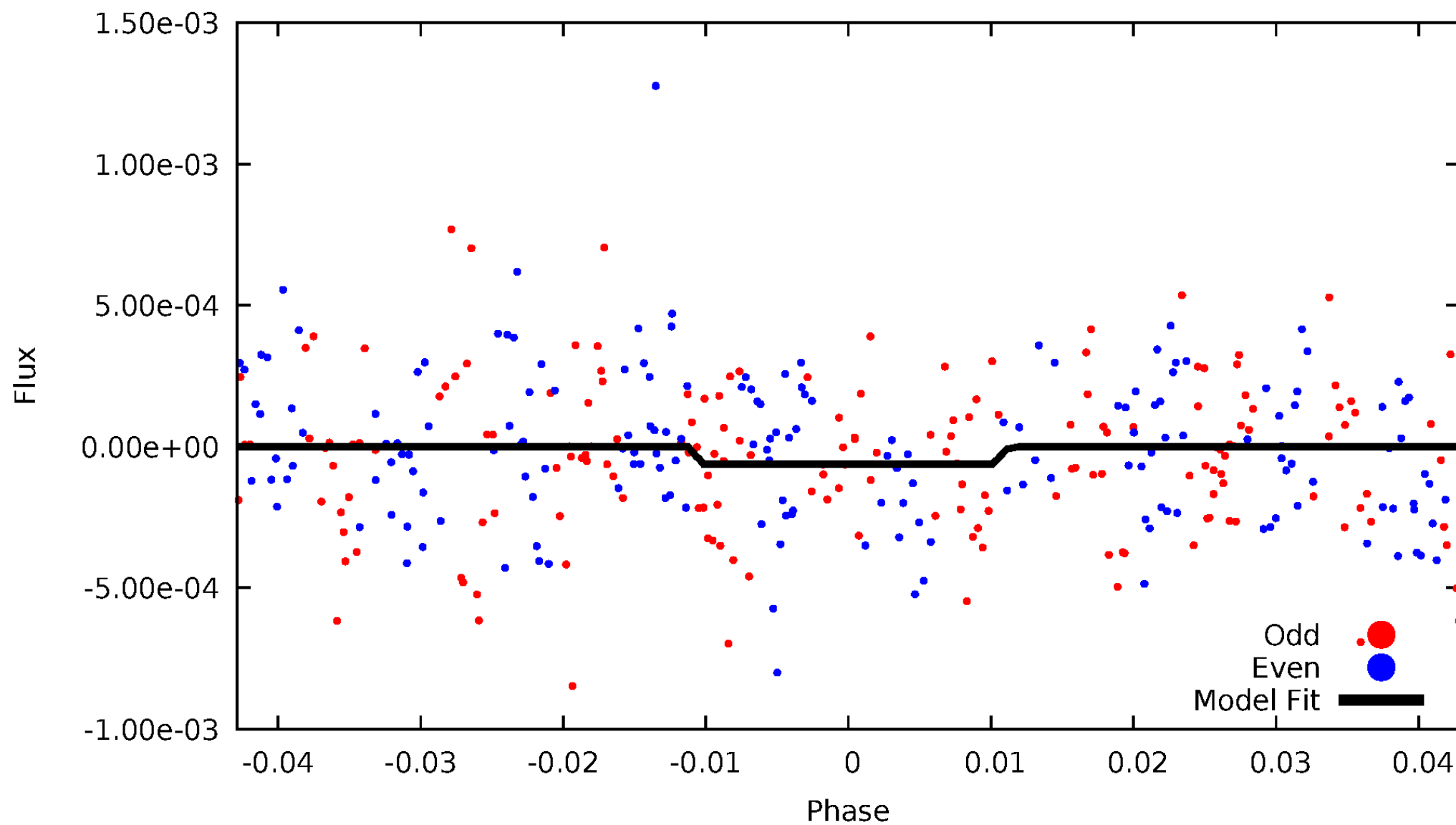
DV Odd/Even

TCE 005025217-03



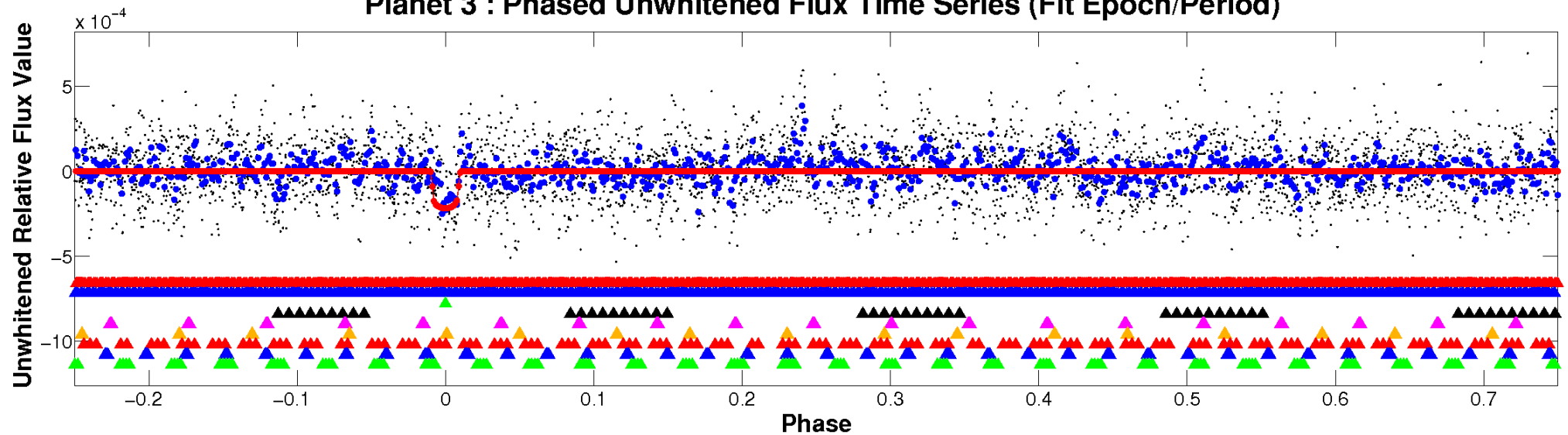
ALT Odd/Even

TCE 005025217-03

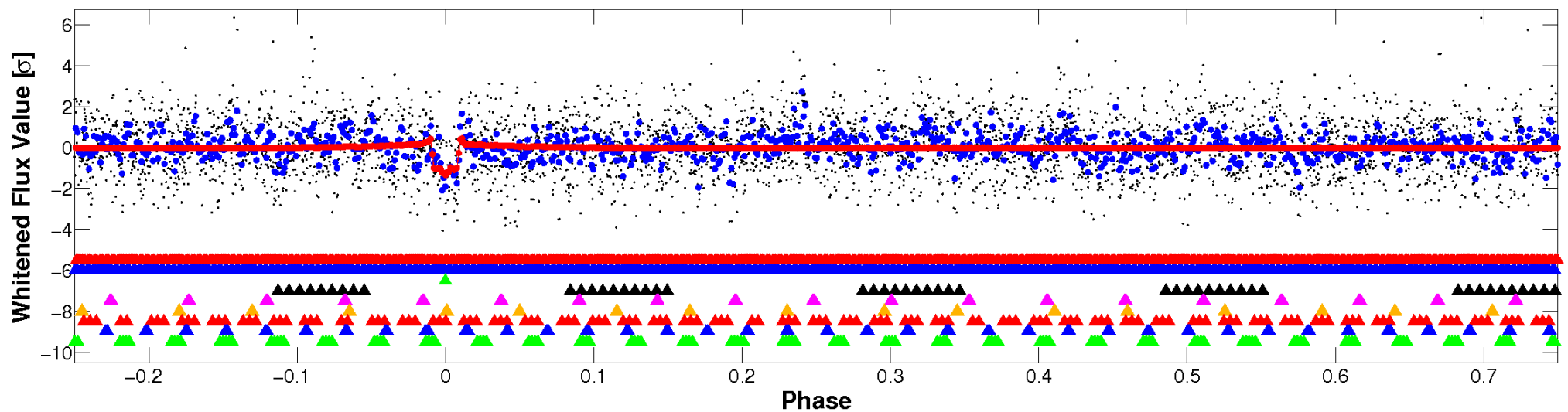


Non-Whitened Vs. Whitened Light Curve

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

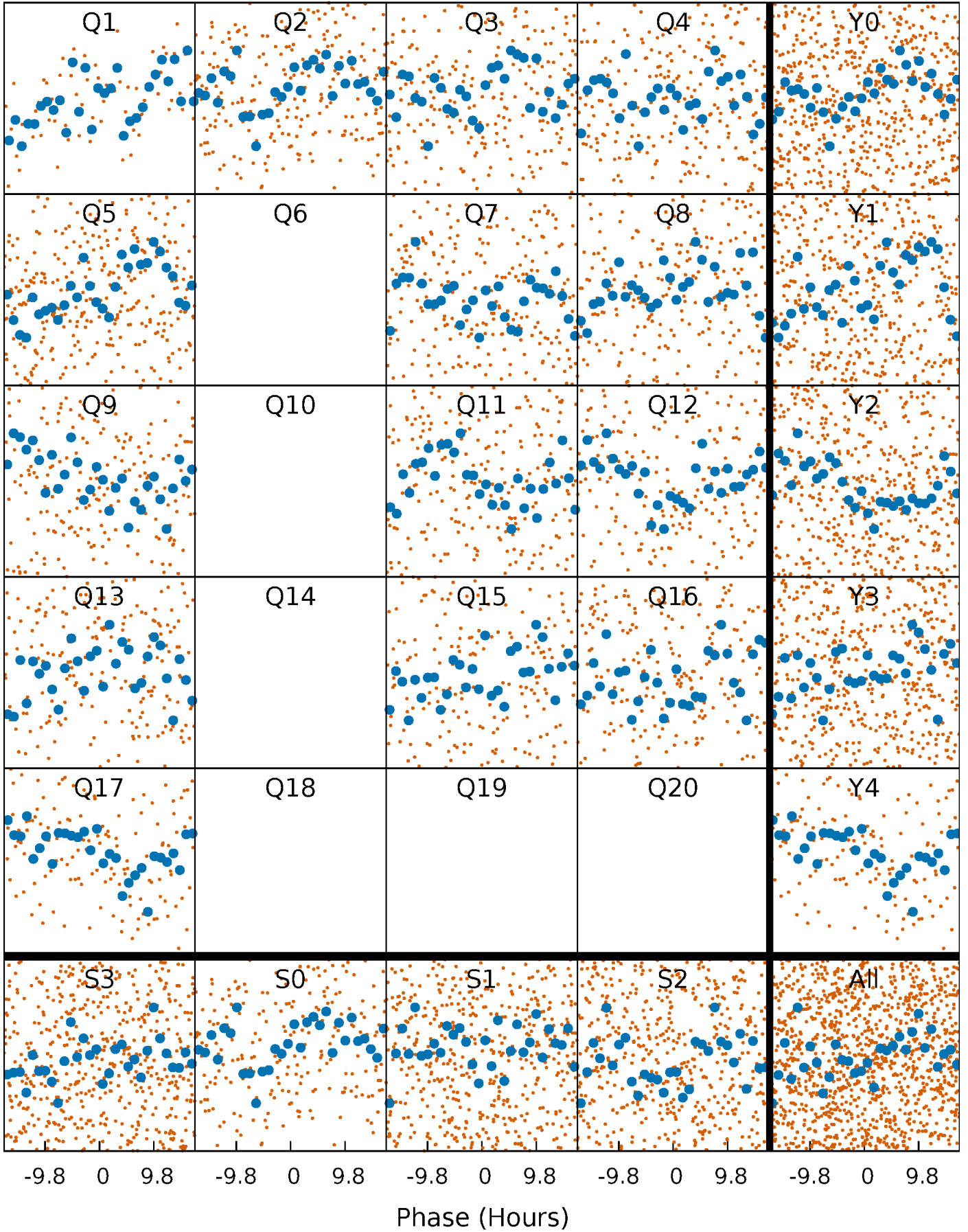


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



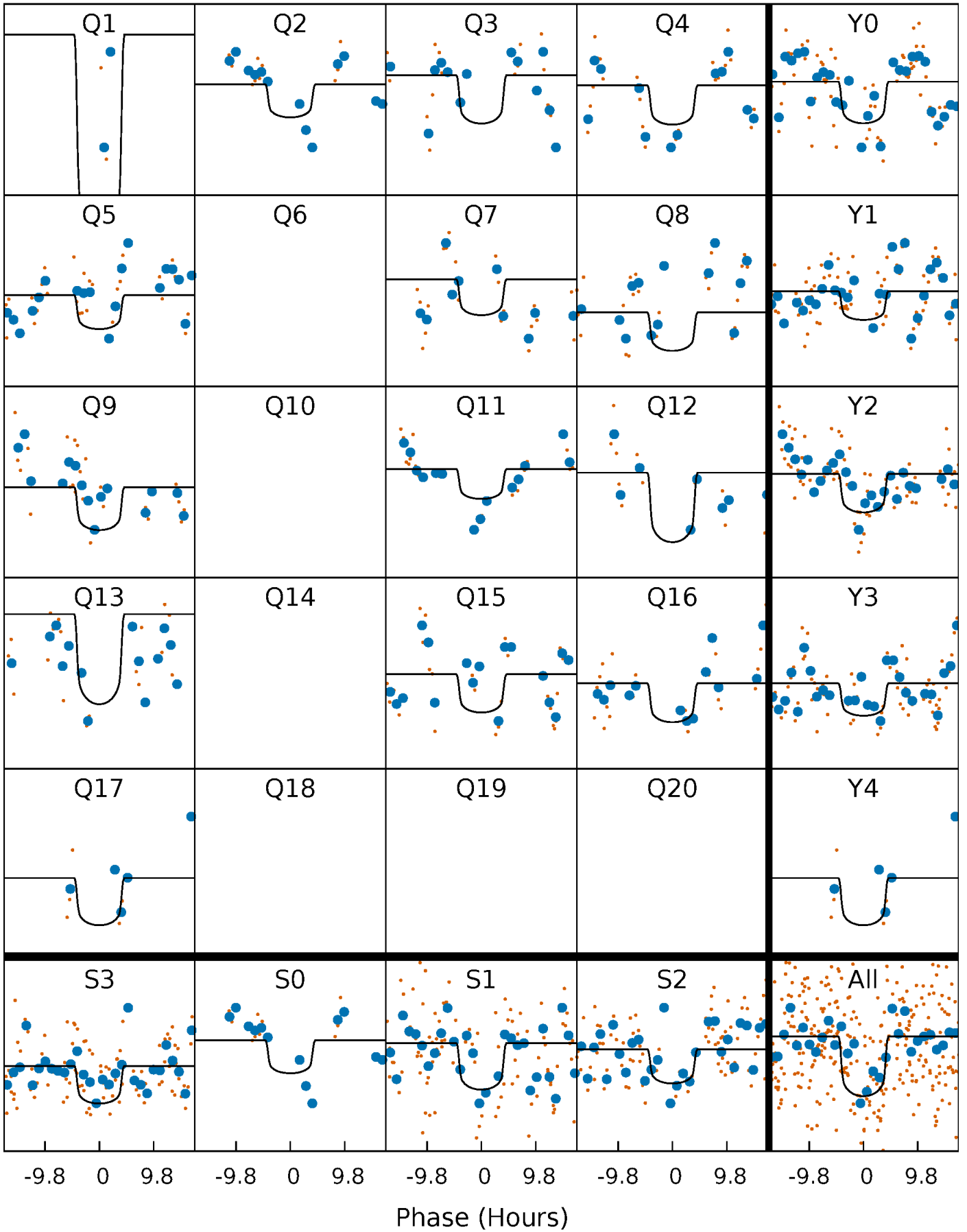
PDC Quarter-Phased Transit Curves

TCE 005025217-03 P= 18.447369 Days $T_0=148.951248$ (BKJD)



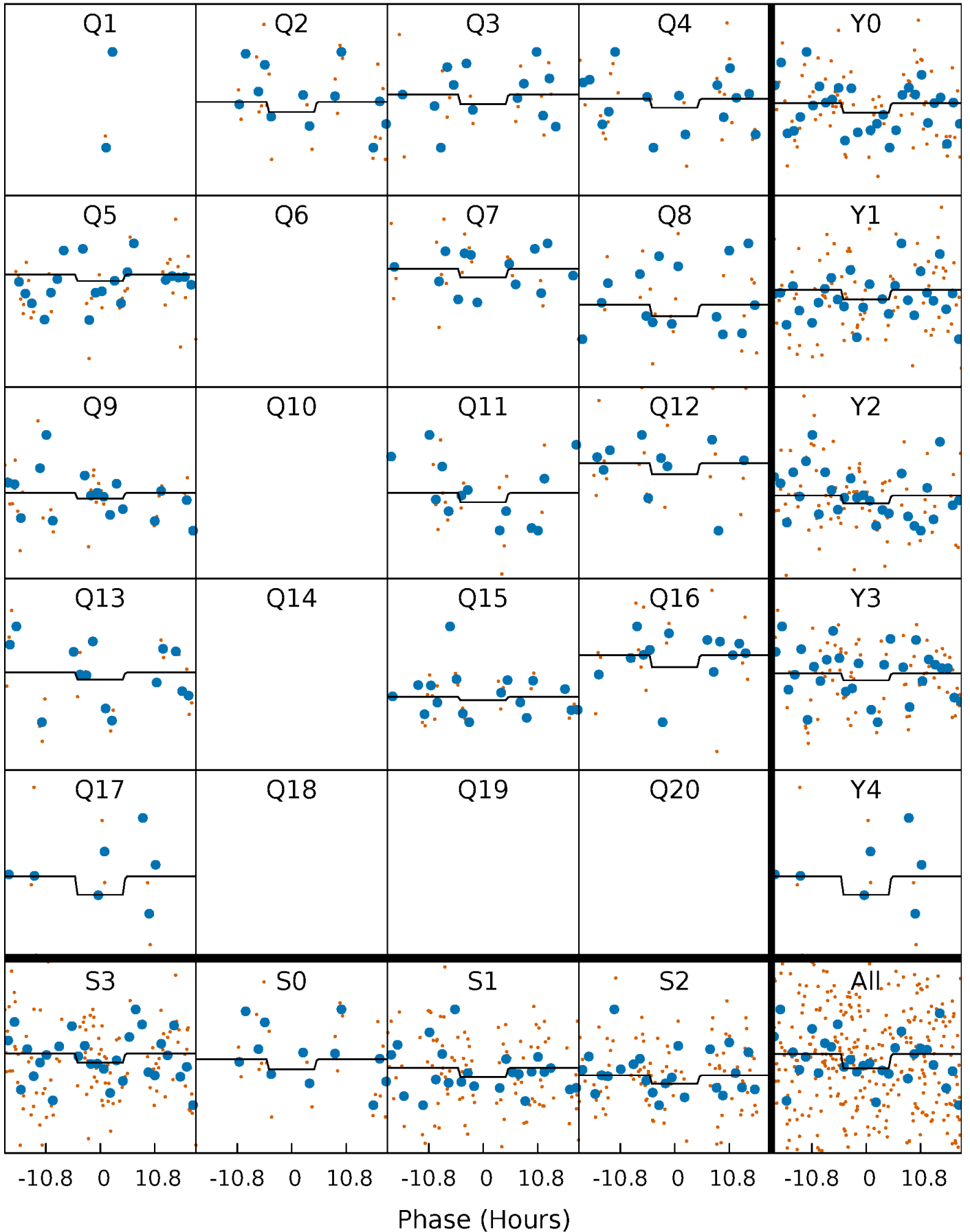
DV Quarter-Phased Transit Curves

TCE 005025217-03 P= 18.447369 Days $T_0=148.951248$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

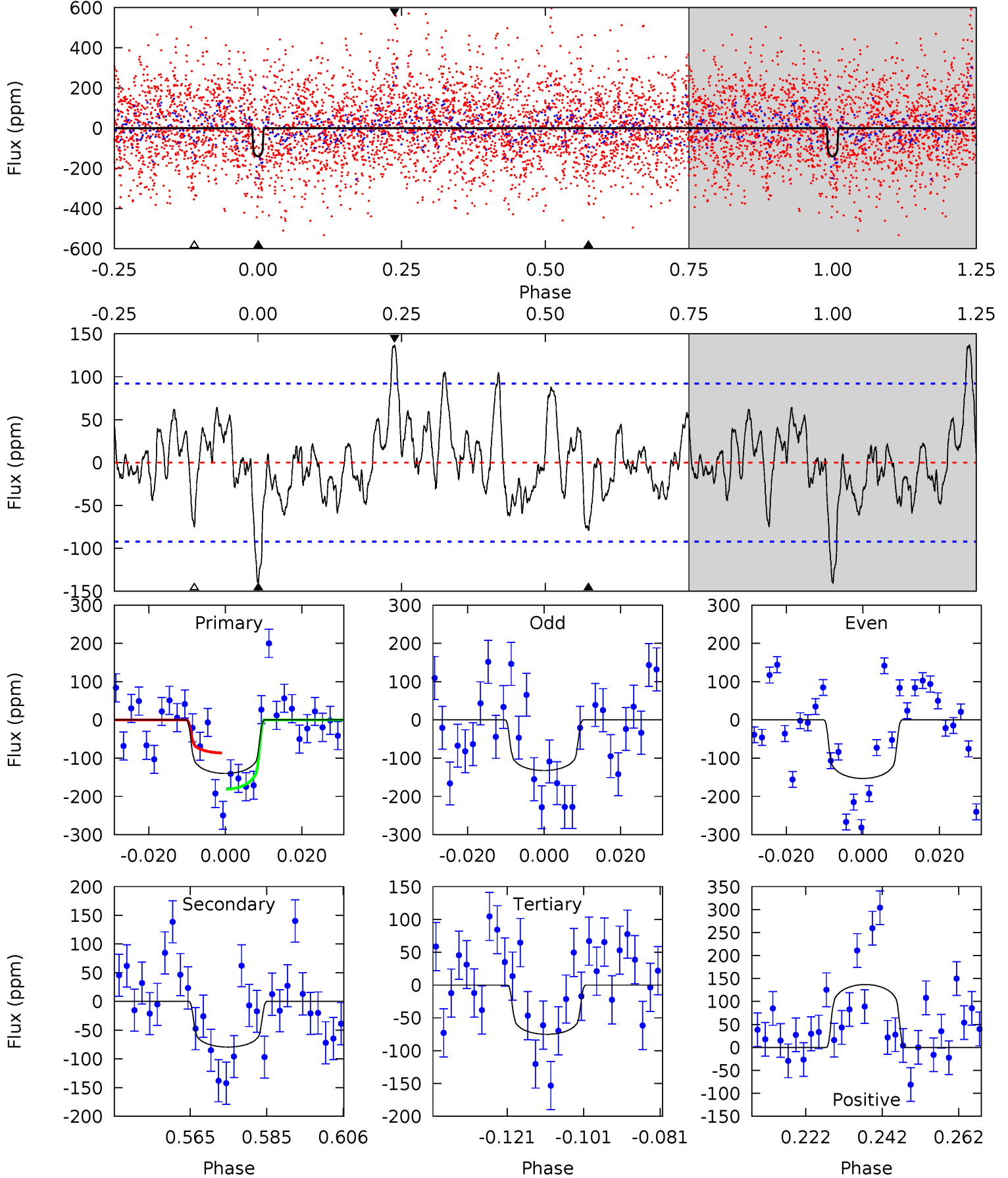
TCE 005025217-03 P= 18.444409 Days $T_0=148.941259$ (BKJD)



DV Model-Shift Uniqueness Test

005025217-03, P = 18.447369 Days, E = 130.503879 Days

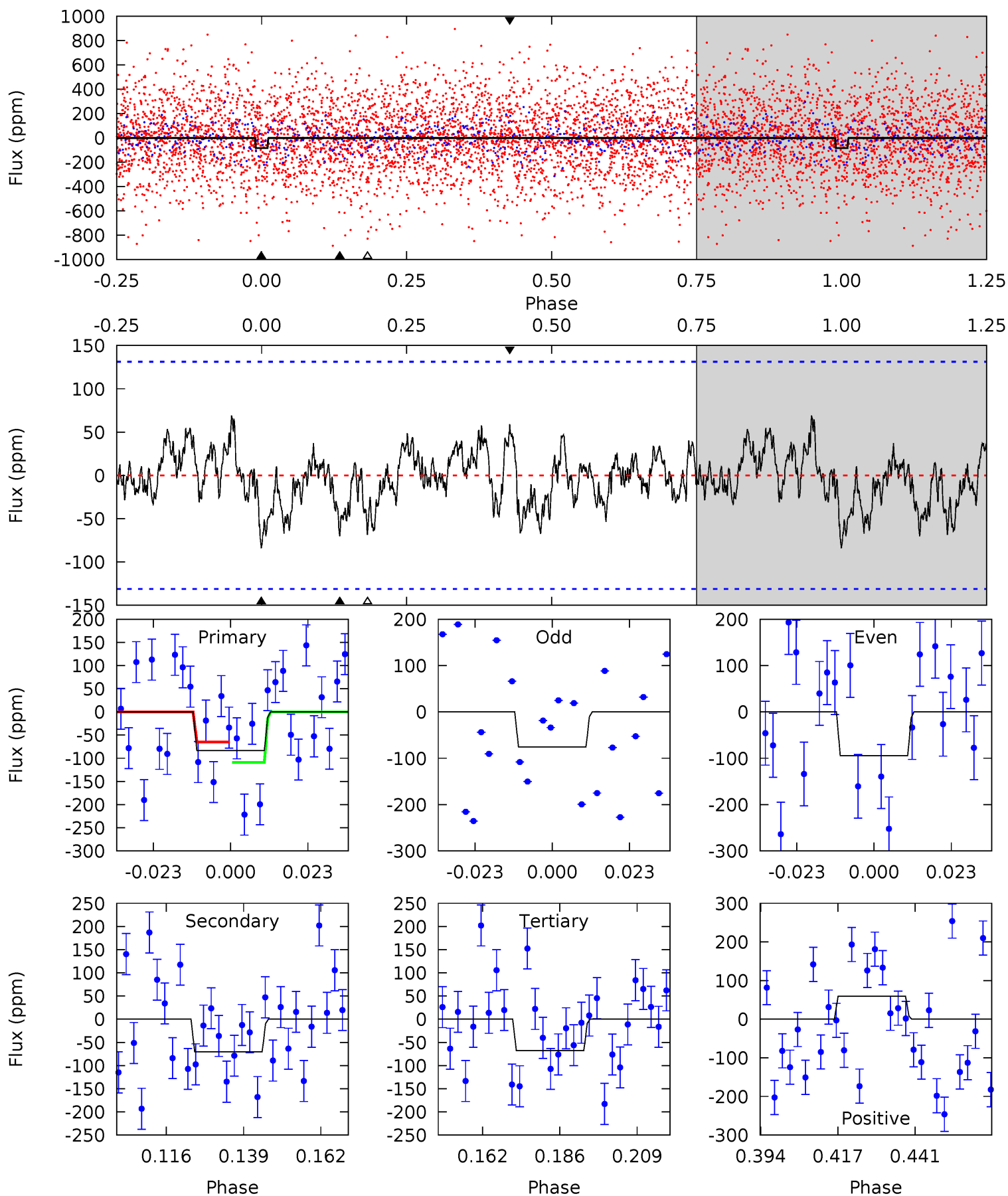
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.44	4.22	3.99	7.27	4.89	2.32	1.96	3.45	0.17	0.23	-3.05	0.55	1.04	0.49	2.52



Alt Model-Shift Uniqueness Test

005025217-03, P = 18.444409 Days, E = 130.496850 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.10	2.60	2.51	2.19	4.86	2.27	0.97	0.58	0.90	0.09	0.41	0.34	3.26	0.45	0.82



Stellar Parameters For KIC 005025217

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6286^{+157}_{-188}	$3.056^{+0.435}_{-0.145}$	$-0.500^{+0.350}_{-0.300}$	$7.342^{+1.923}_{-3.572}$	$2.233^{+0.311}_{-0.673}$	$0.008^{+0.034}_{-0.003}$
	+2%/-3%	+14%/-5%	+70%/-60%	+26%/-49%	+14%/-30%	+425%/-42%
Source	PHO1	FLK73	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 005025217-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-79 ± 19	$11.24^{+4.13}_{-3.48}$	2427^{+206}_{-293}	4864^{+620}_{-510}	11^{+11}_{-5}
Alt.	-70 ± 27	$5.77^{+3.34}_{-2.79}$	2431^{+214}_{-282}	6352^{+2901}_{-1279}	33^{+102}_{-21}

T_{max} = Theoretical Maximum Planetary Temperature

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

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

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

DV Centroid Data

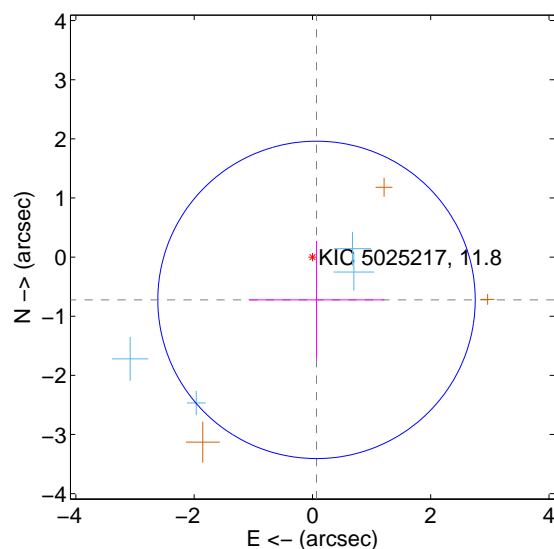
Supplemental centroid analysis for 005025217-03. **Kepler magnitude: 11.80.** Transit SNR 8.91

There are 4 quarters with good PRF difference image offsets

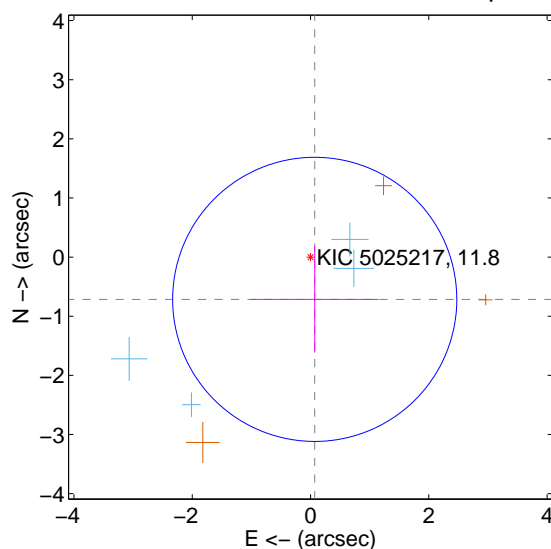
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.727 ± 0.895	0.81	-0.069 ± 1.148	-0.724 ± 0.997
PRF-fit source offset from KIC position	0.718 ± 0.801	0.90	-0.071 ± 1.080	-0.715 ± 0.899
photometric centroid source offset	0.25 ± 0.19	1.29	0.23 ± 0.19	0.09 ± 0.18

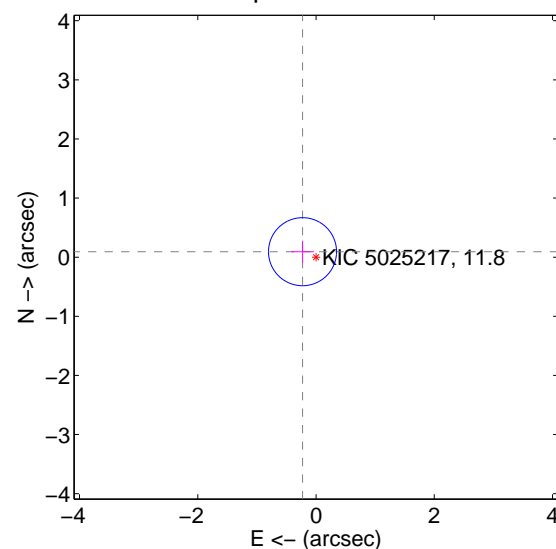
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

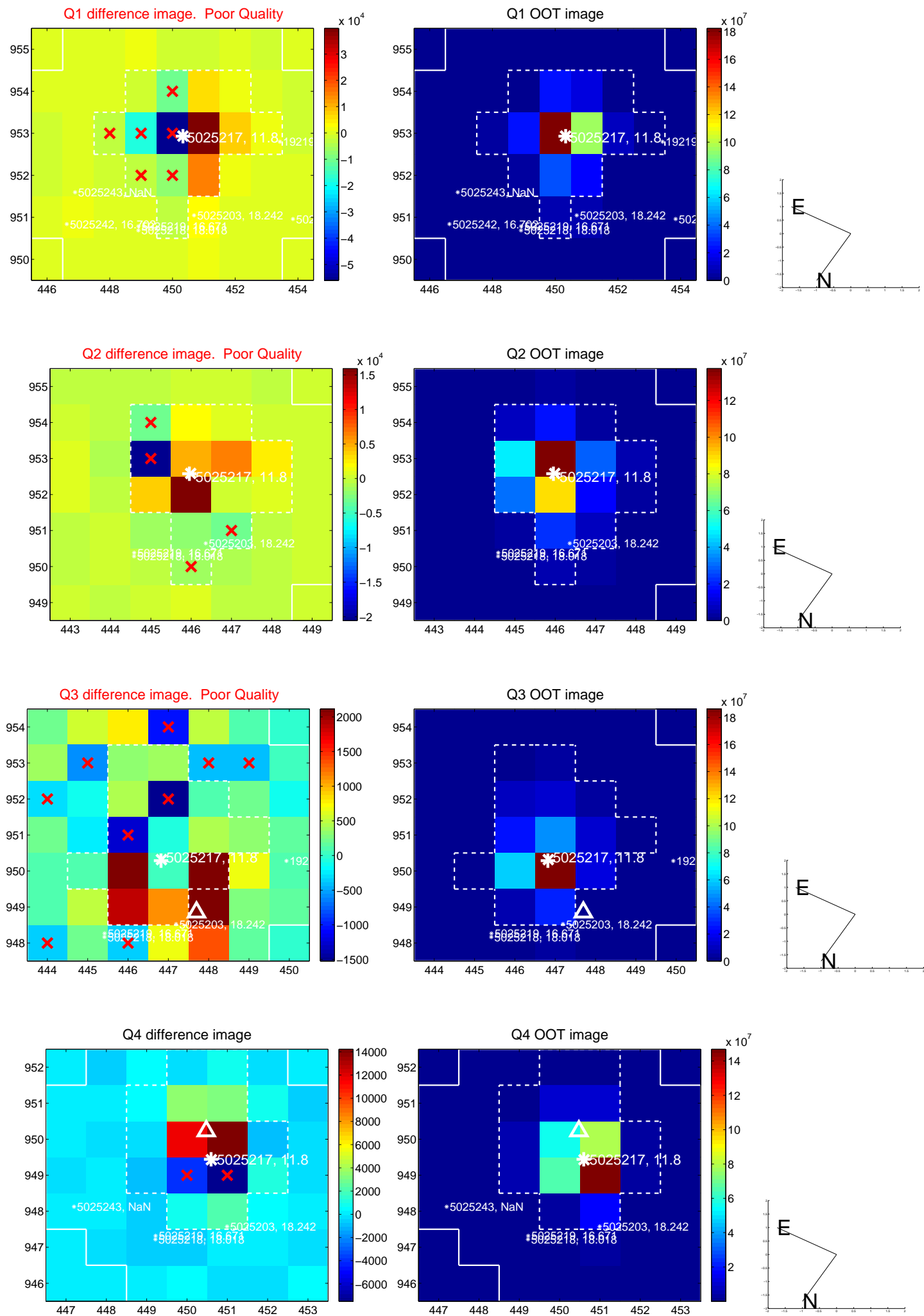


offset from photometric centroids

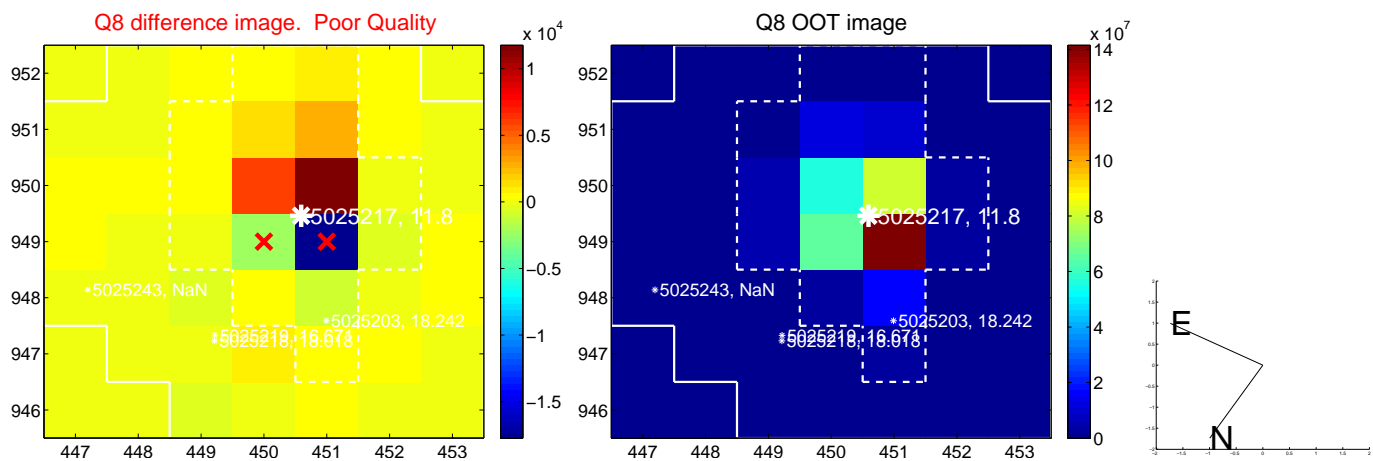
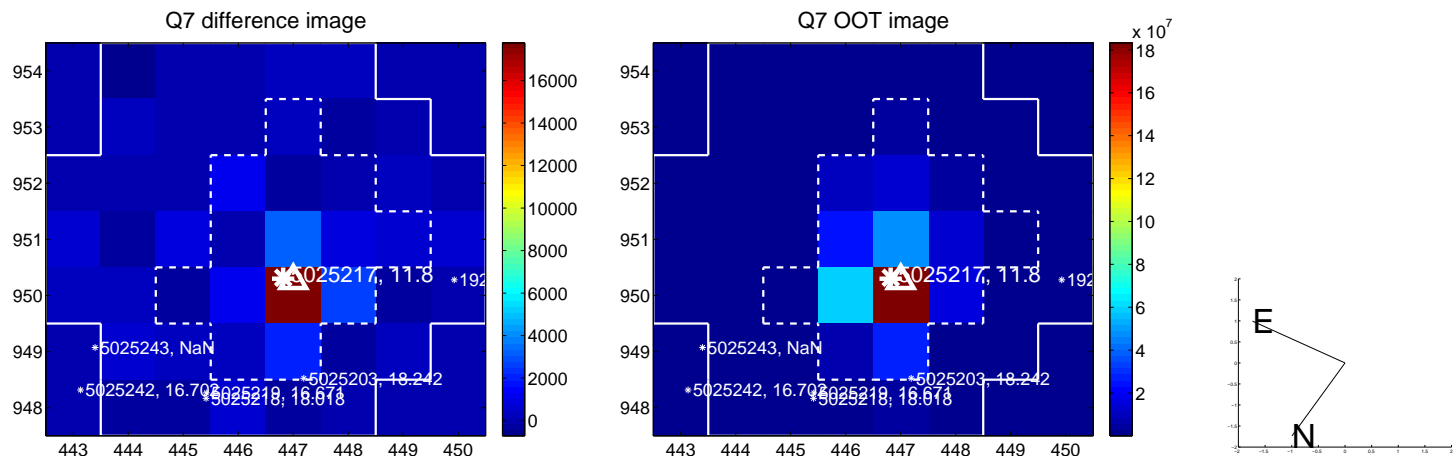
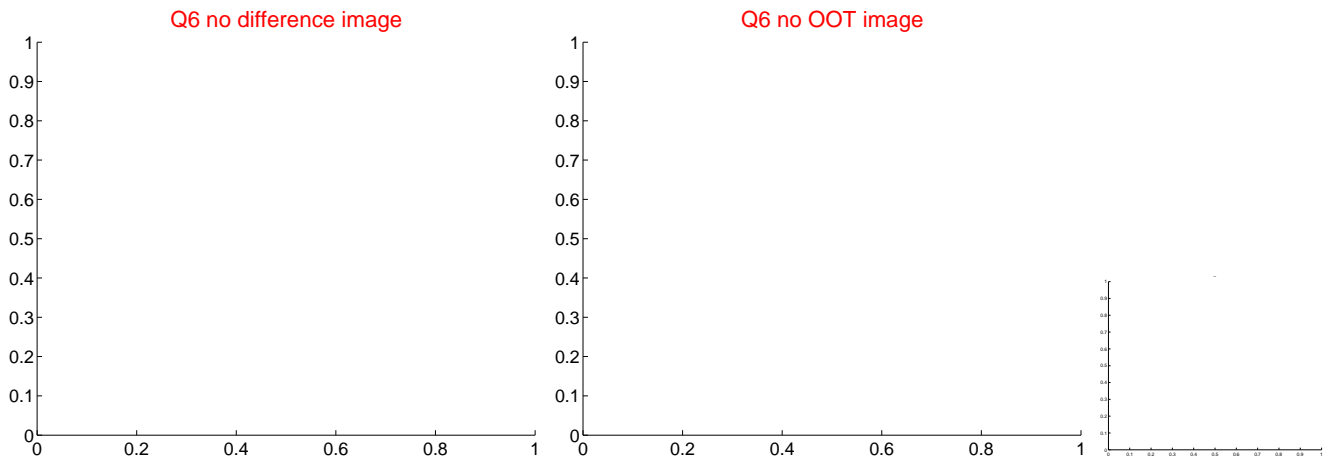
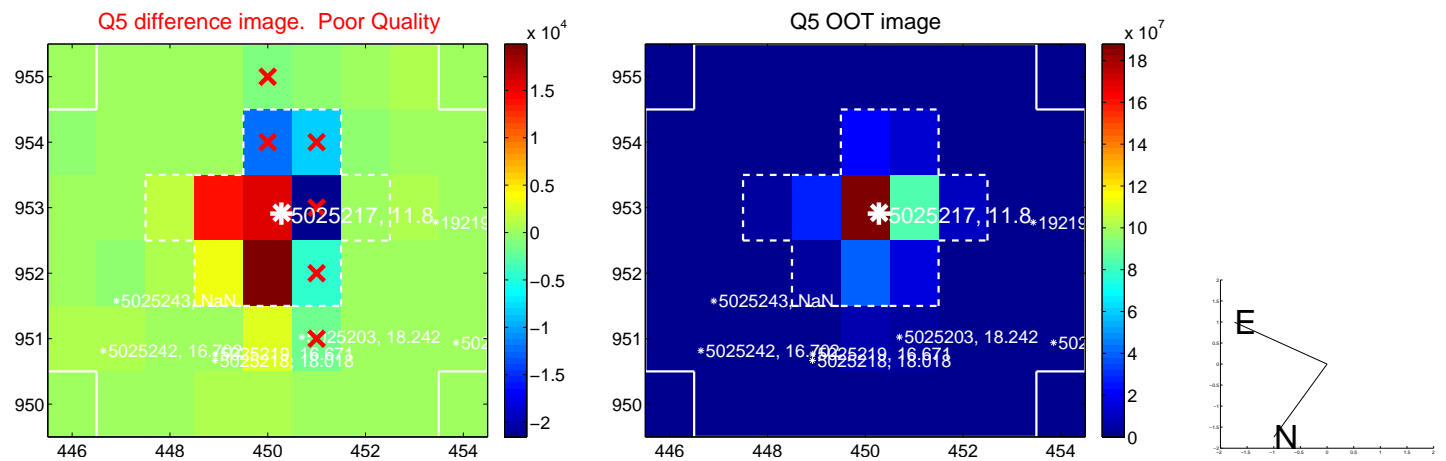


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

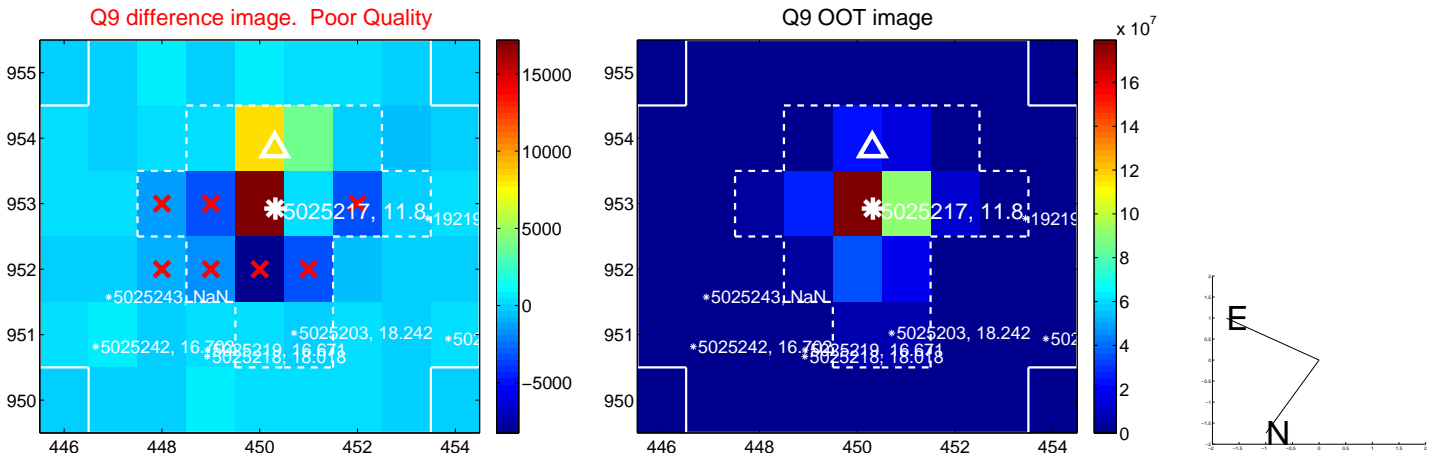
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



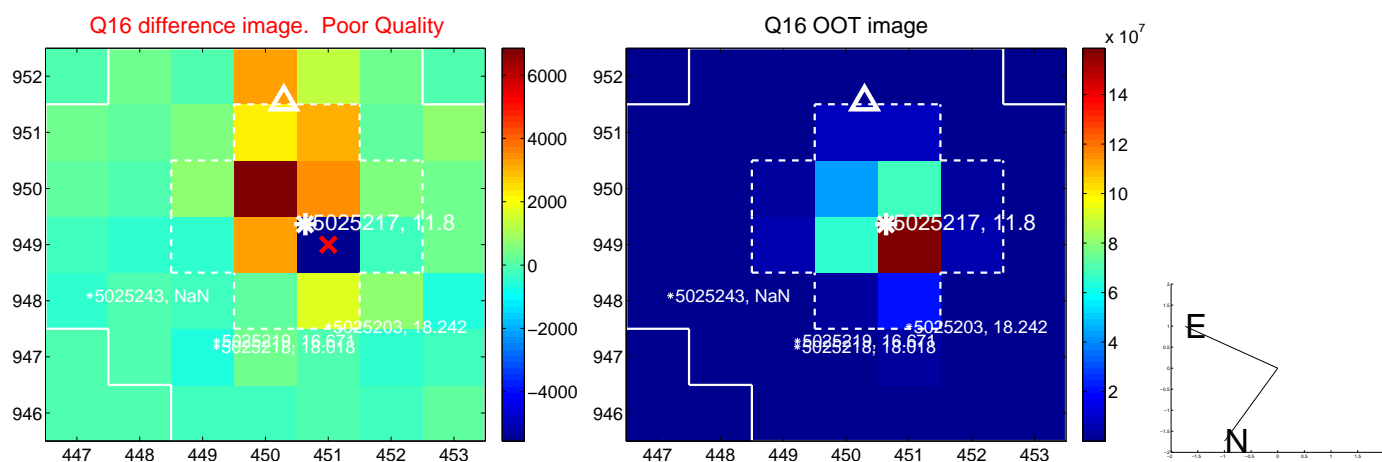
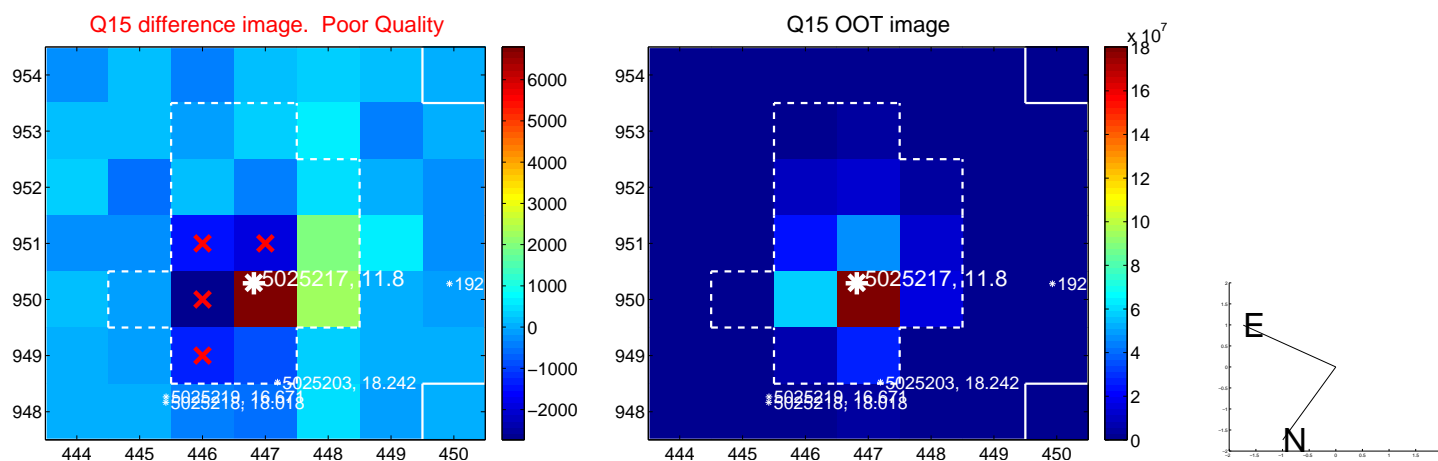
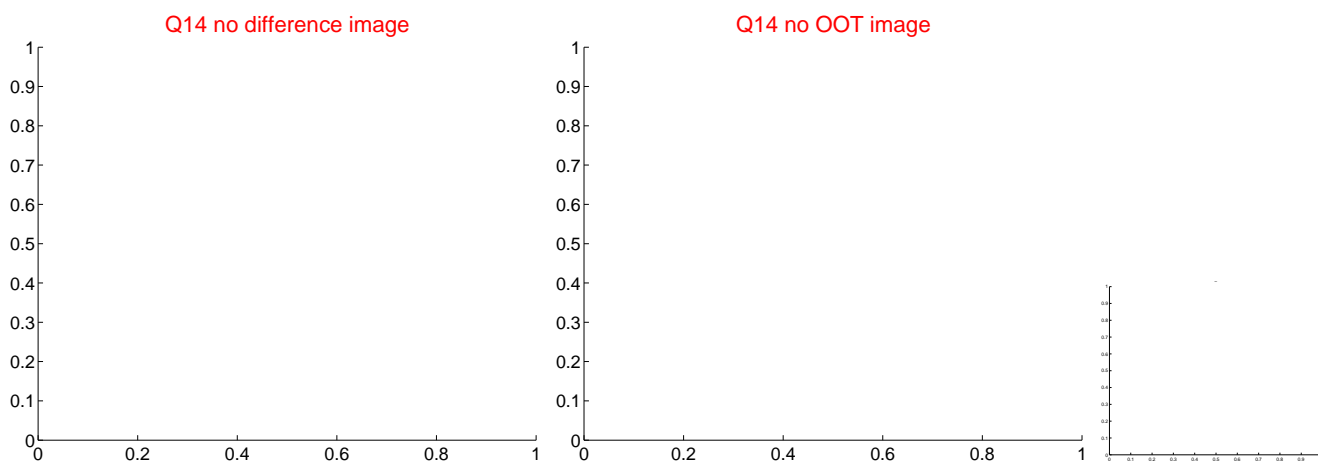
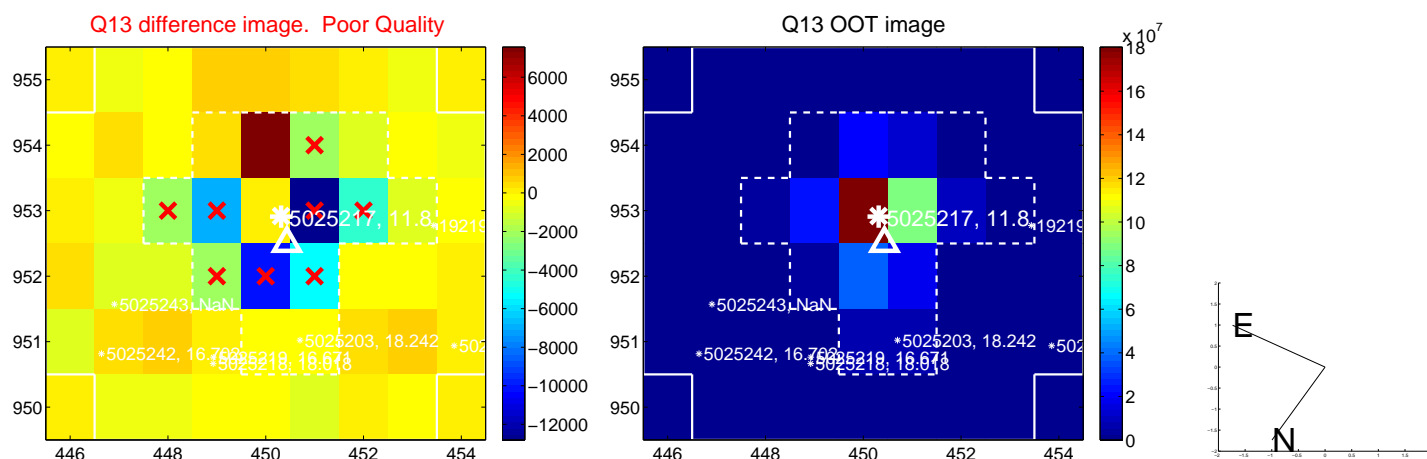
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



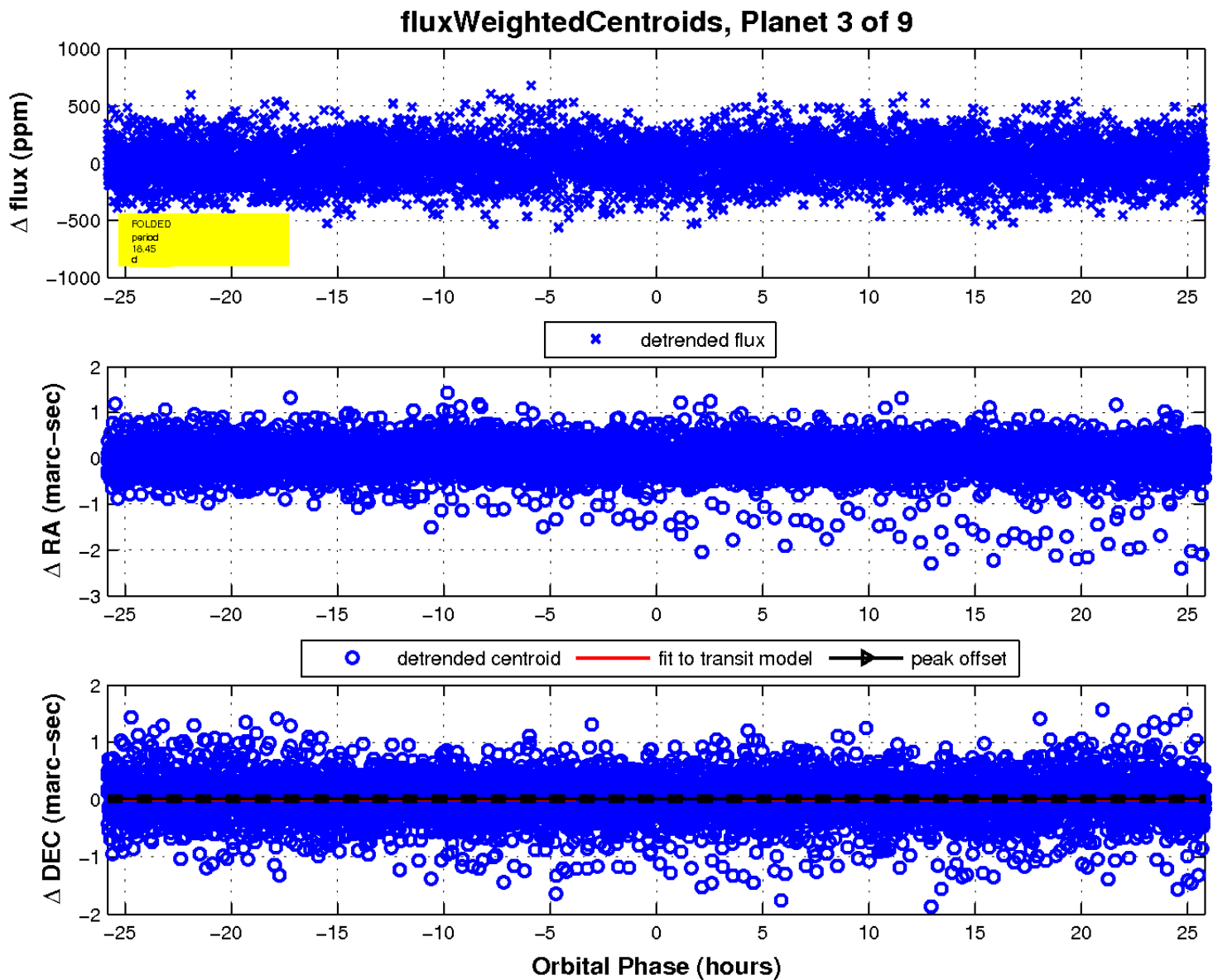
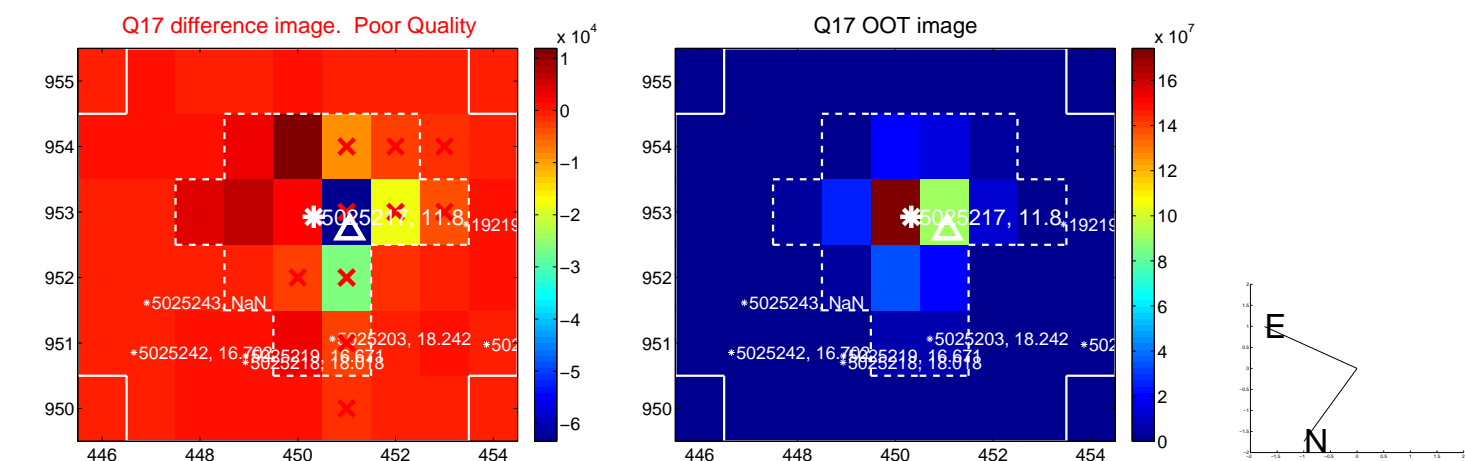
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

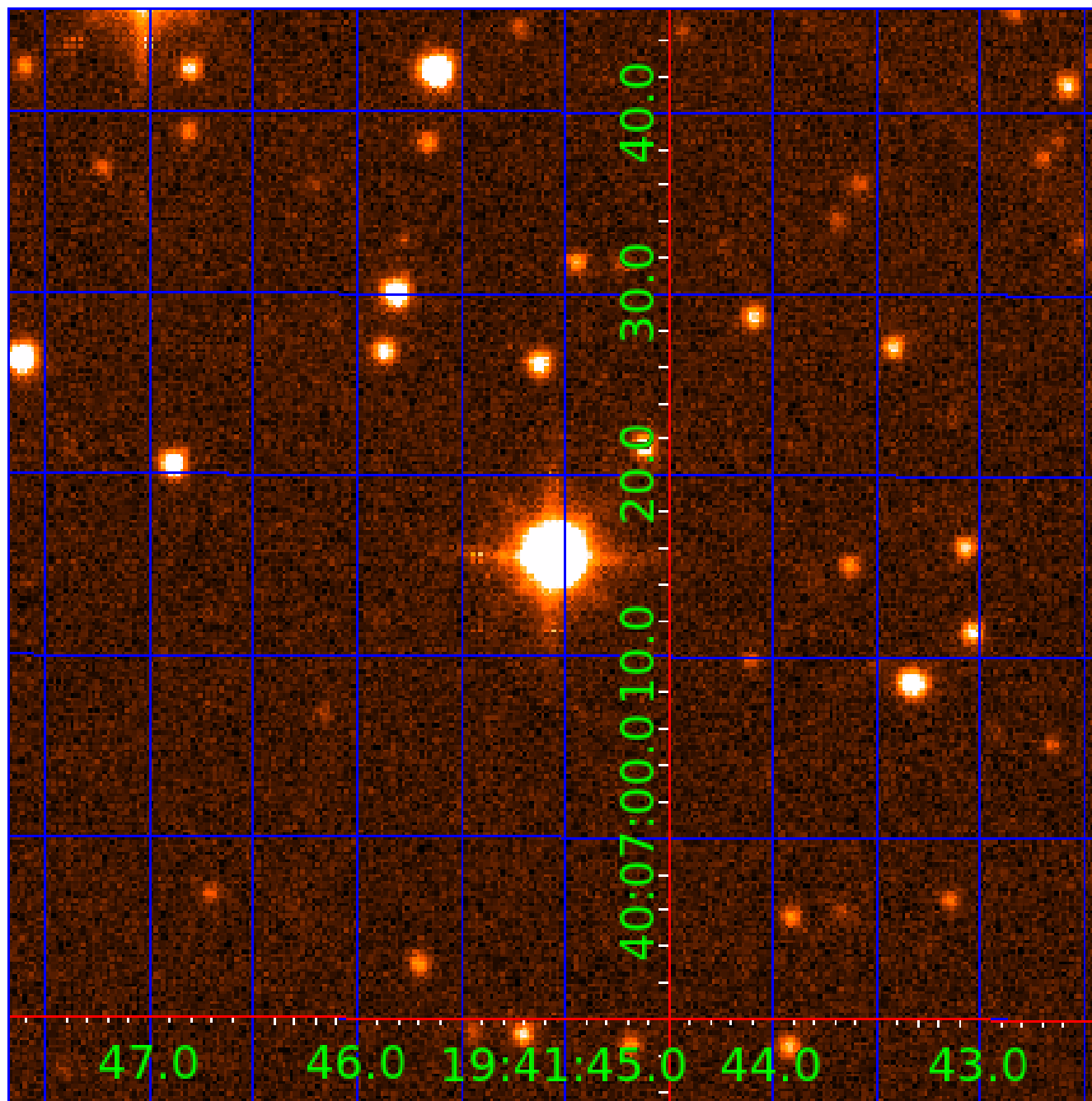


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005025217

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})
005025217-01	OBS	6496.01	1.787604	132.417372	26.4	6.928	10.2	7.7	7.34	6286	4.55	53036.26
005025217-02	OBS	No	1.787610	131.532827	43.6	5.860	10.5	11.1	7.34	6286	7.98	53036.05
005025217-03	OBS	No	18.447369	148.951248	218.2	8.613	9.2	8.9	7.34	6286	12.39	2360.60
005025217-04	OBS	No	29.489063	159.114814	255.0	5.450	9.3	7.6	7.34	6286	15.32	1262.95
005025217-05	OBS	No	19.418689	137.006080	201.0	8.561	8.8	8.4	7.34	6286	11.88	2204.49
005025217-06	OBS	No	86.793263	178.302201	475.1	4.020	8.5	8.4	7.34	6286	18.10	299.42
005025217-07	OBS	No	10.595765	139.960544	215.0	1.911	8.0	7.8	7.34	6286	12.51	4944.15
005025217-08	OBS	No	12.464005	142.264307	176.1	2.619	8.0	7.3	7.34	6286	10.22	3981.60
005025217-09	OBS	No	12.084867	134.855286	99.8	3.500	7.9	-1.0	7.34	6286	7.37	4149.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005025217-01	OBS	FP	0.00	1	0	0	0	LPP_DV
005025217-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005025217-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005025217-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_NOFITS

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.

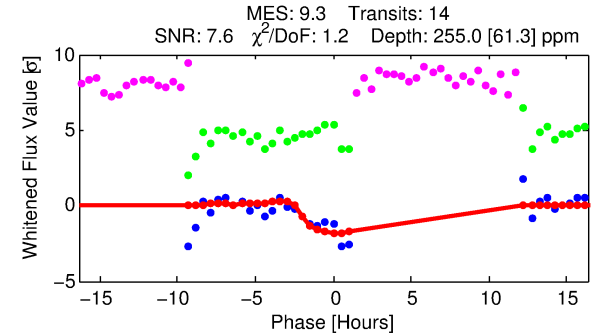
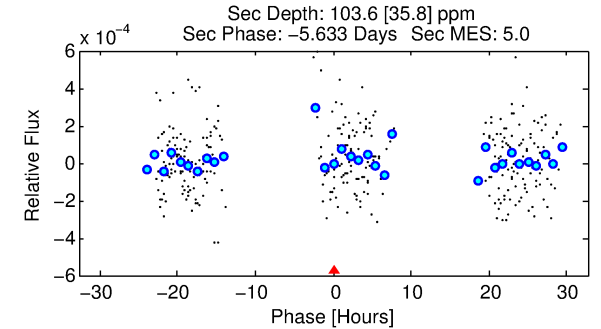
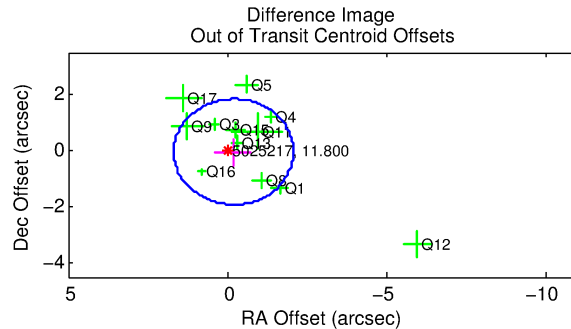
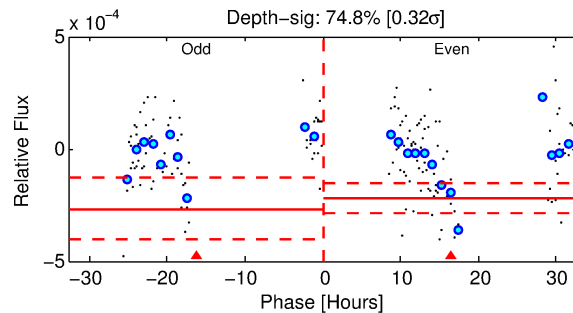
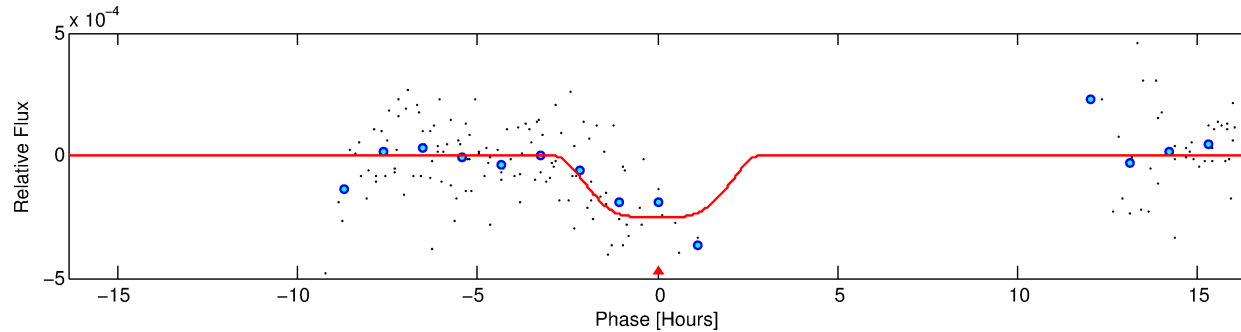
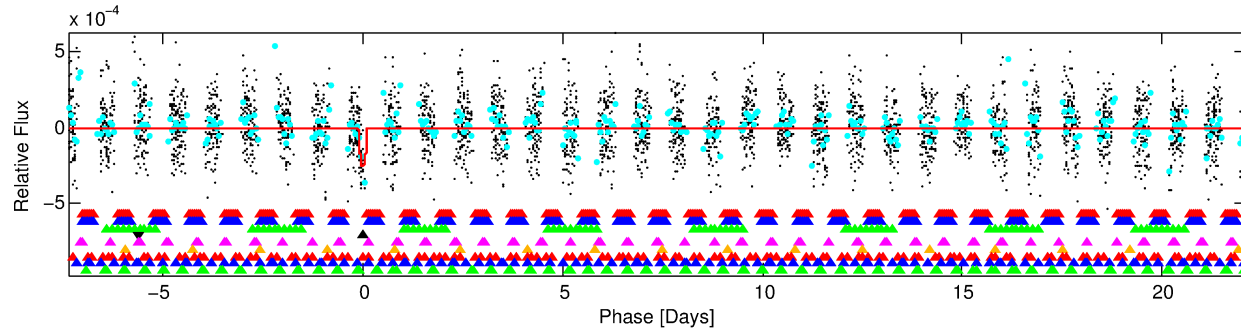
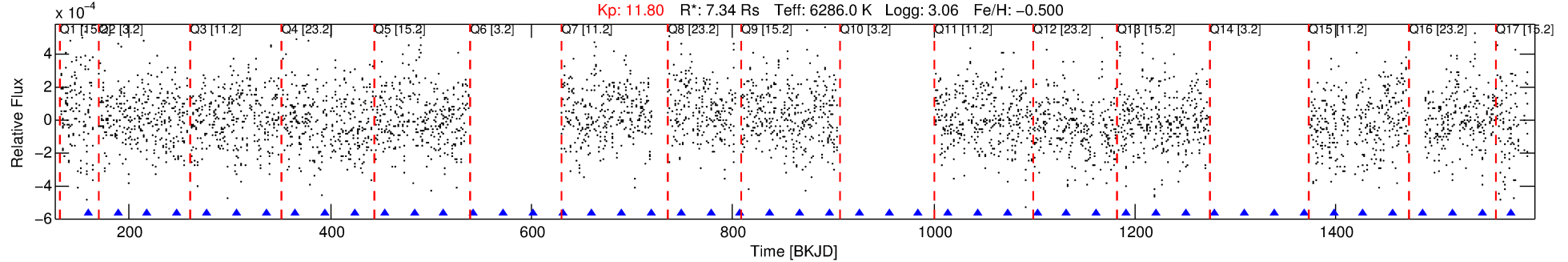
Ephemeris Match Information For 005025217-04

No Significant Match Found

DV One-Page Summary

KIC: 5025217 Candidate: 4 of 9 Period: 29.489 d
KOI: K06496 Corr: No Ephemeris Match

Kp: 11.80 R*: 7.34 Rs Teff: 6286.0 K Logg: 3.06 Fe/H: -0.500



DV Fit Results:

Period = 29.48906 [0.00128] d
Epoch = 159.1148 [0.0755] BKJD
Rp/R* = 0.0191 [0.0026]
a/R* = 12.35 [4.85]
b = 0.97 [0.02]
Seff = 1262.95 [949.65]
Teq = 1520 [286] K
Rp = 15.32 [7.75] Re
a = 0.2444 [0.1137] AU
Ag = 14.51 [12.54] [1.08σ]
Teffp = 4587 [526] K [5.13σ]

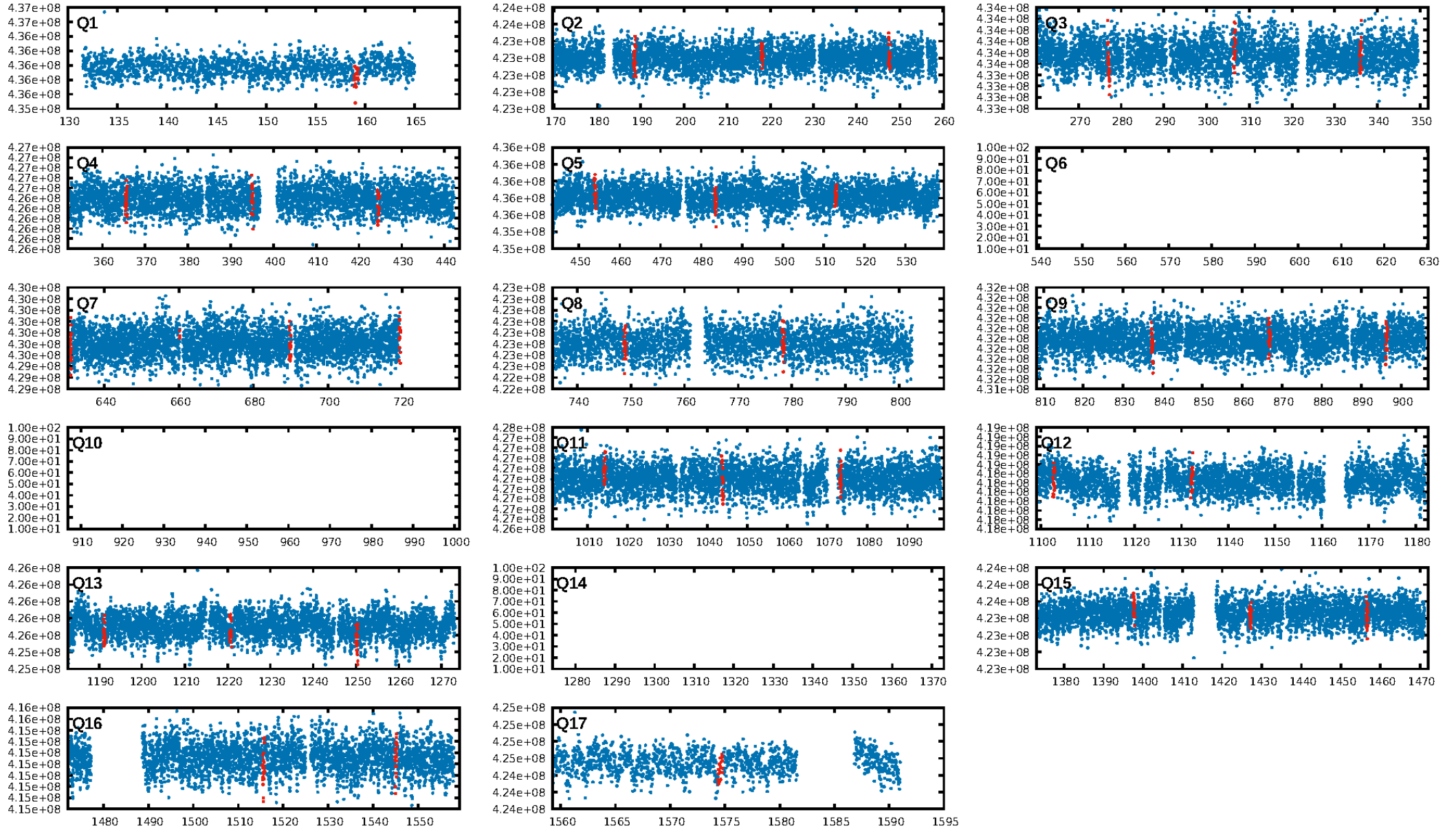
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [23.82σ]
LongPeriod-sig: 100.0% [203.08σ]
ModelChiSquare2-sig: 39.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [13/13]
GhostDiagnostic-chr: 0.8781
Centroid-sig: N/A
Centroid-so: 0.248 arcsec [0.92σ]
OotOffset-rm: 0.205 arcsec [0.33σ]
KicOffset-rm: 0.208 arcsec [0.41σ]
OotOffset-st: 0/3/4/5 [12]
KicOffset-st: 0/3/4/5 [12]
DiffImageQuality-fgm: 0.75 [9/12]
DiffImageOverlap-fno: 0.00 [0/13]

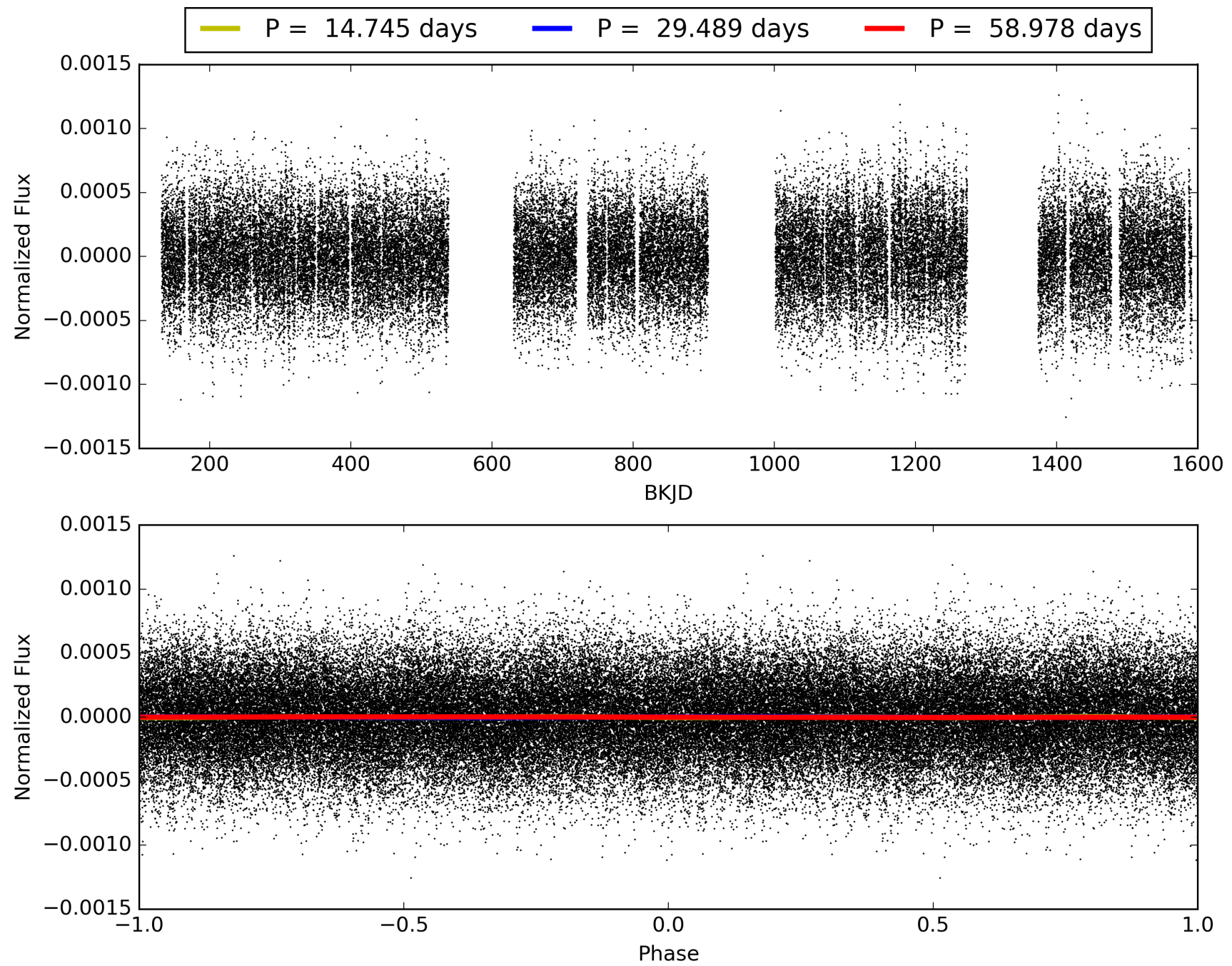
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 06:18:38 Z

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

TCE 005025217-04, PDC Light Curves

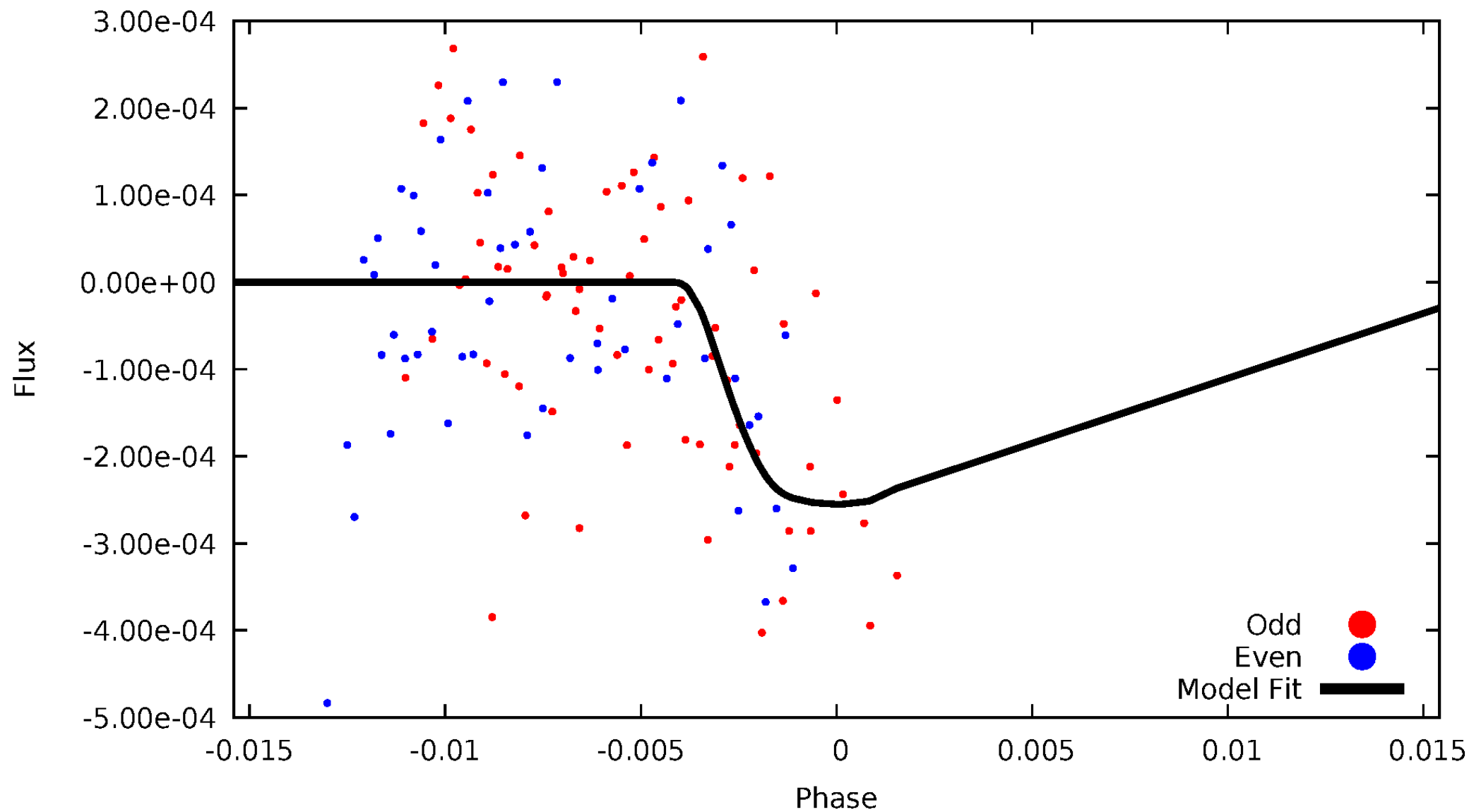


TCE 005025217-04



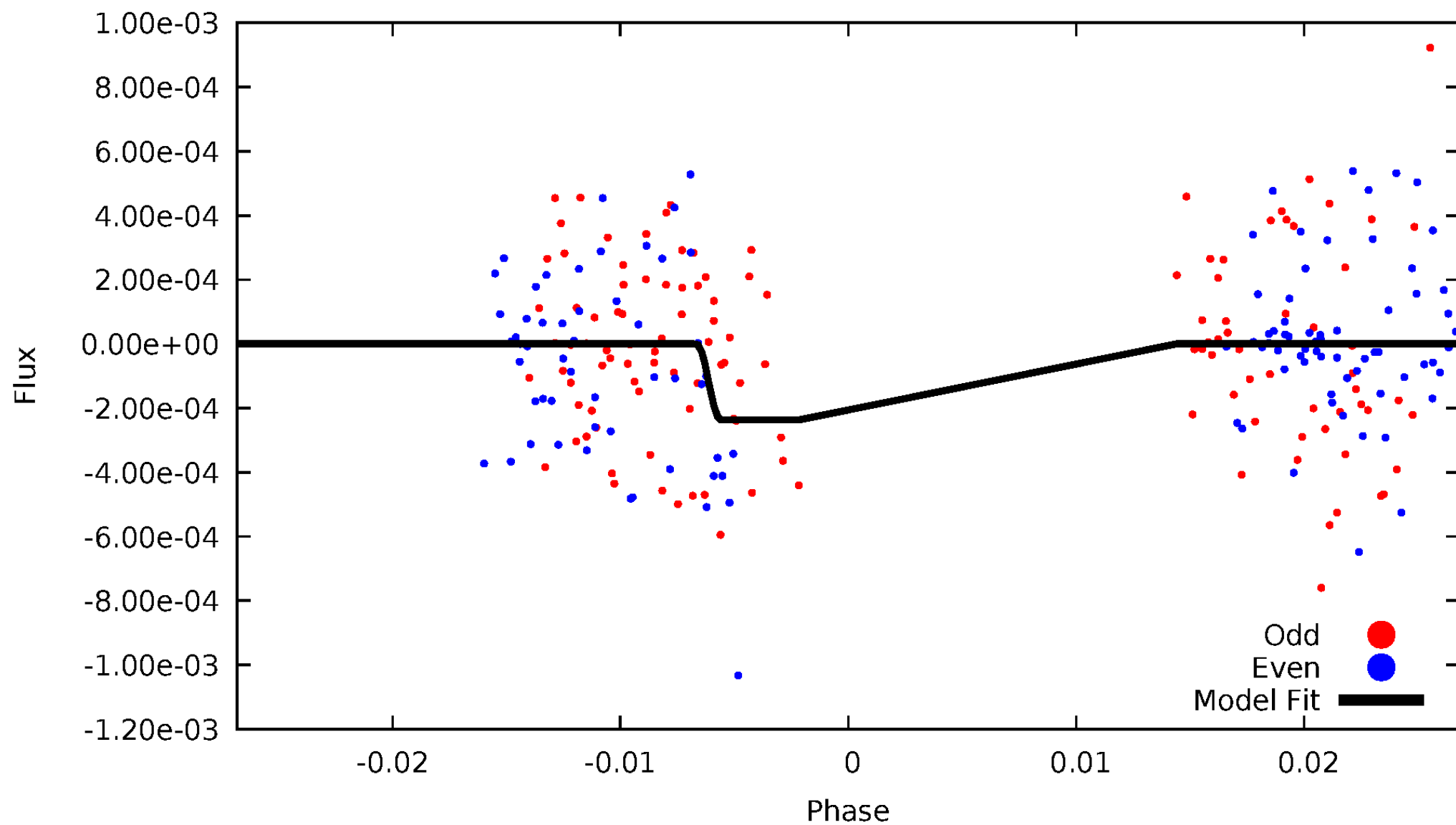
DV Odd/Even

TCE 005025217-04



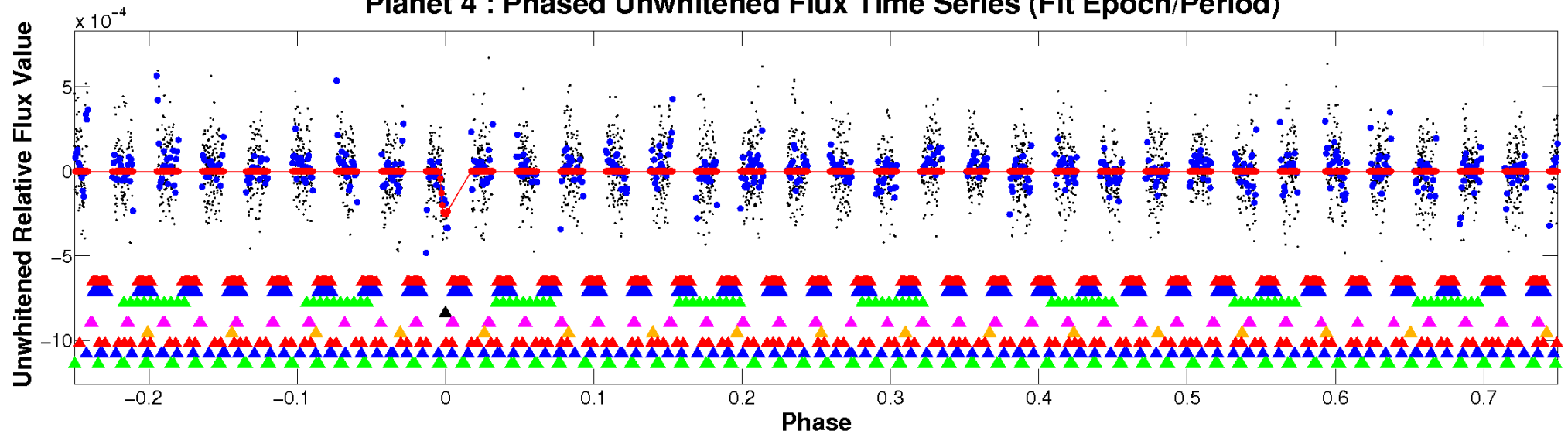
ALT Odd/Even

TCE 005025217-04

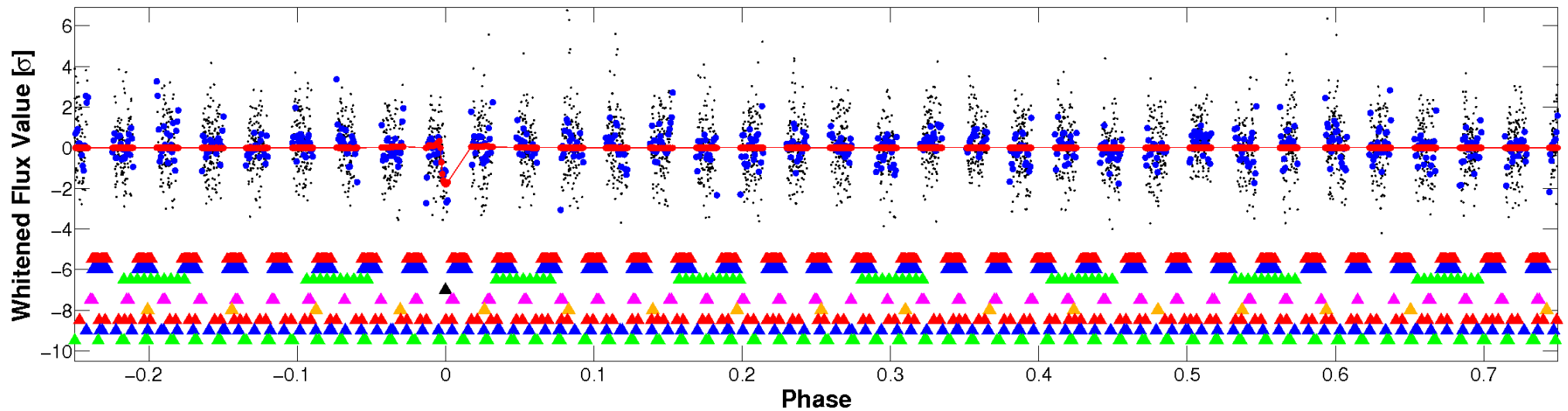


Non-Whitened Vs. Whitened Light Curve

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

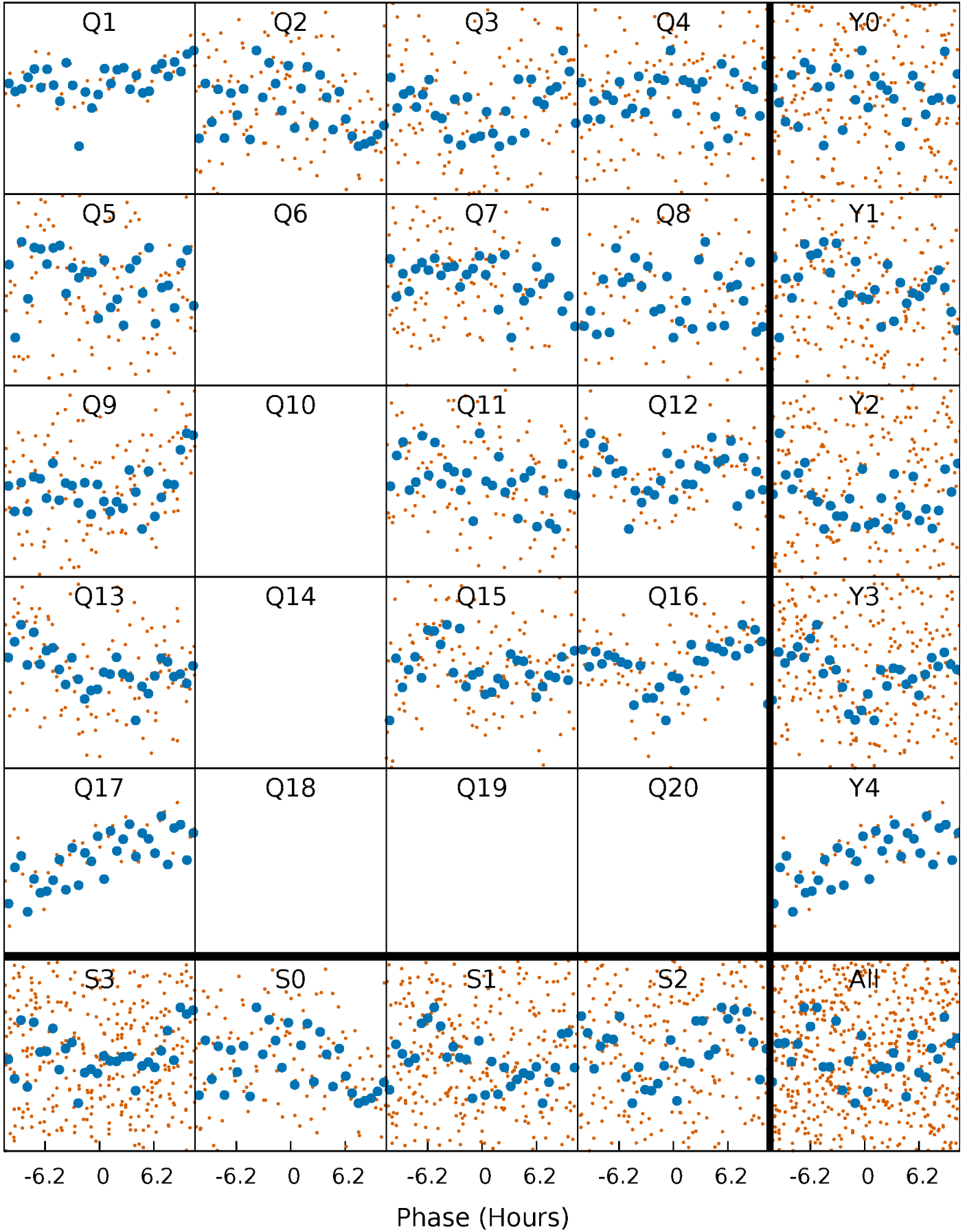


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



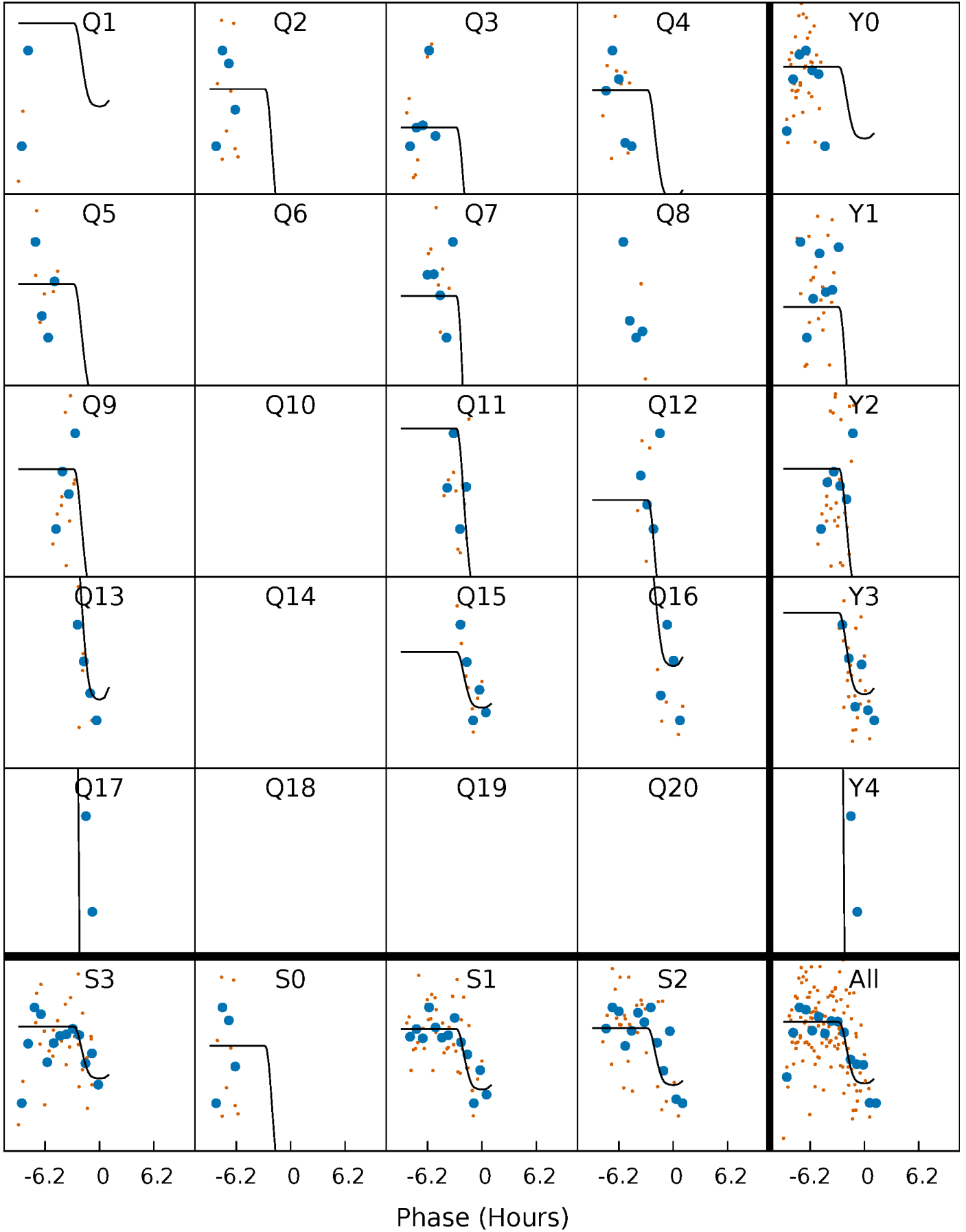
PDC Quarter-Phased Transit Curves

TCE 005025217-04 P= 29.489063 Days $T_0=159.114814$ (BKJD)



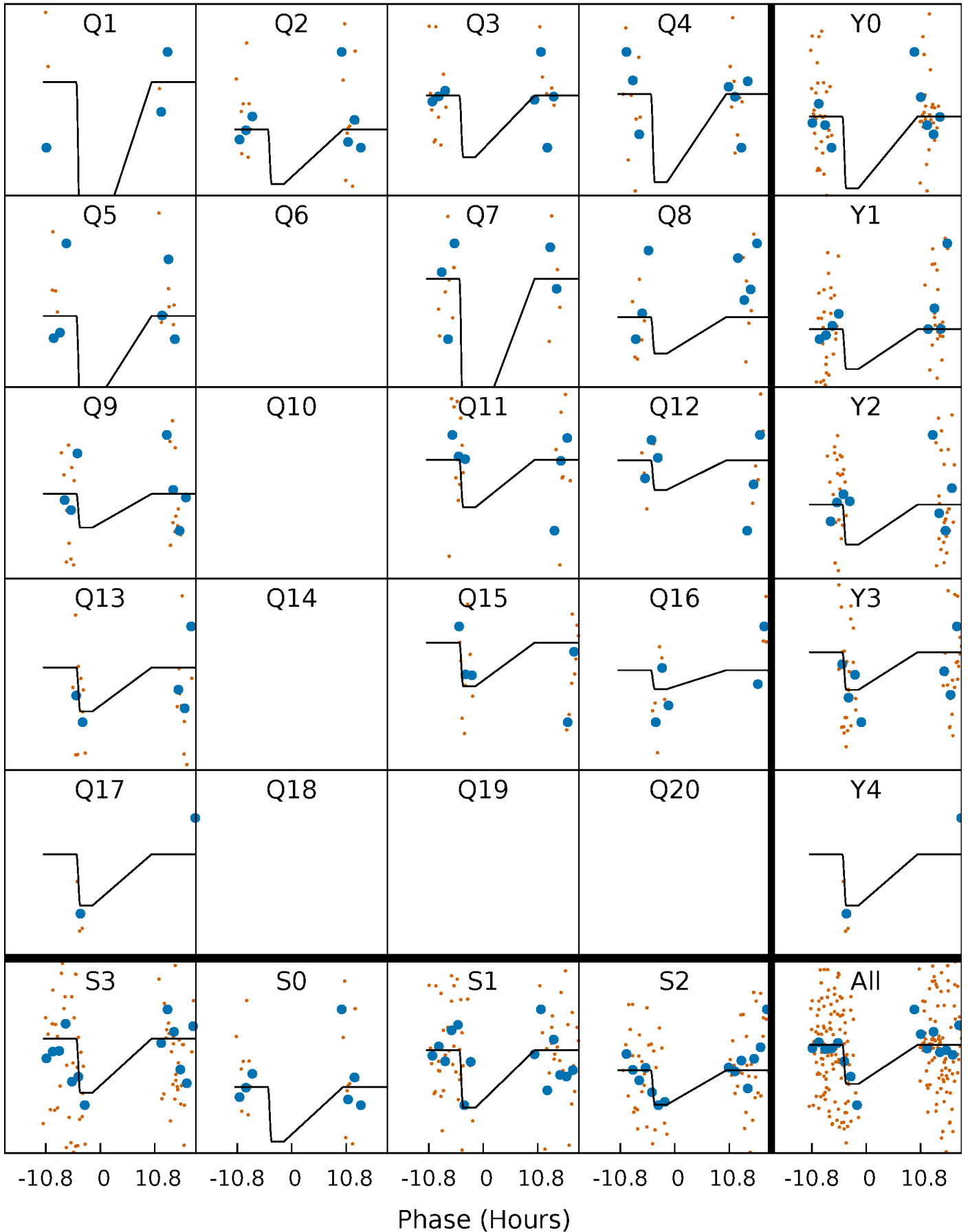
DV Quarter-Phased Transit Curves

TCE 005025217-04 P= 29.489063 Days $T_0=159.114814$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

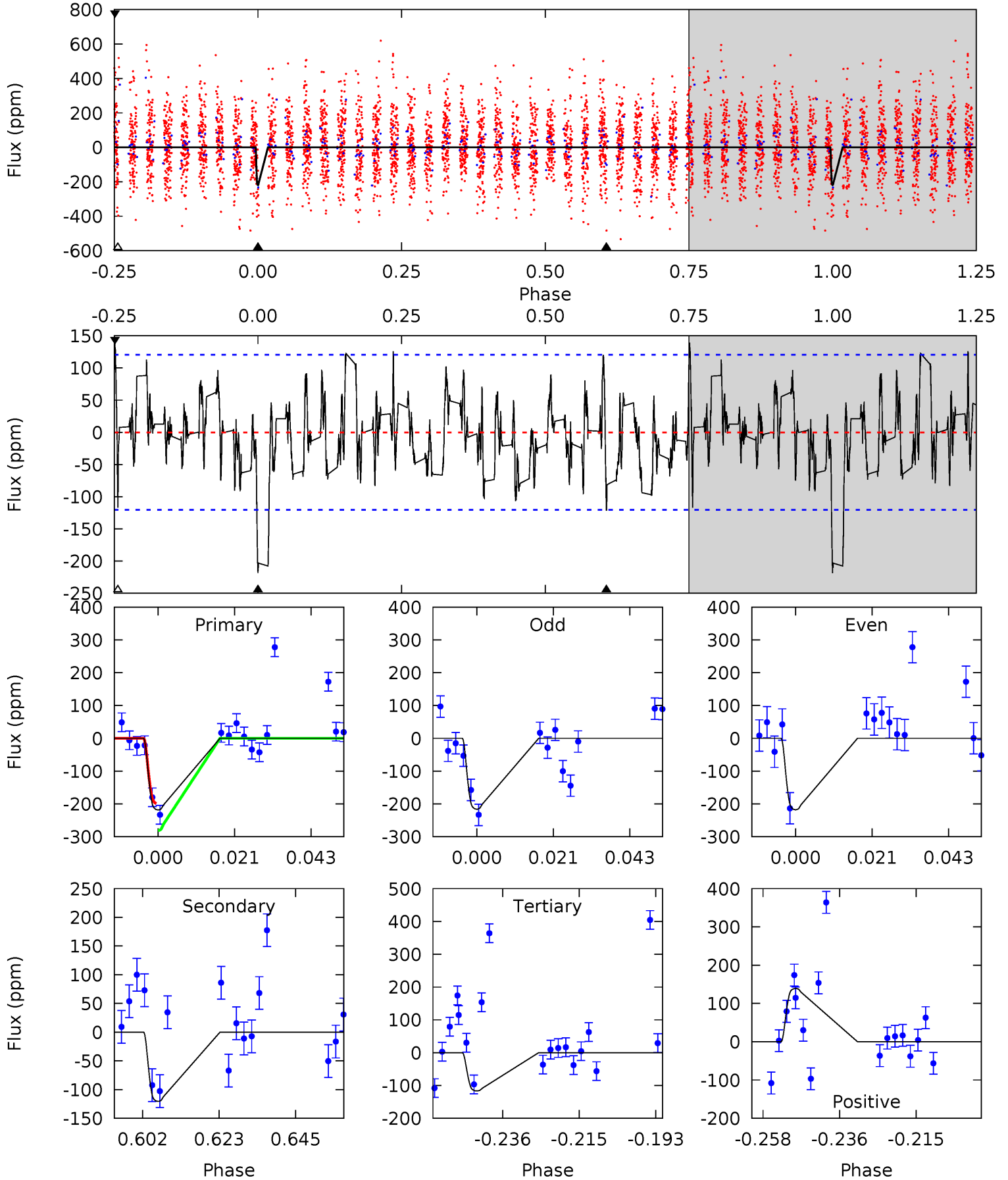
TCE 005025217-04 P= 29.489543 Days $T_0=159.202200$ (BKJD)



DV Model-Shift Uniqueness Test

005025217-04, P = 29.489063 Days, E = 129.625751 Days

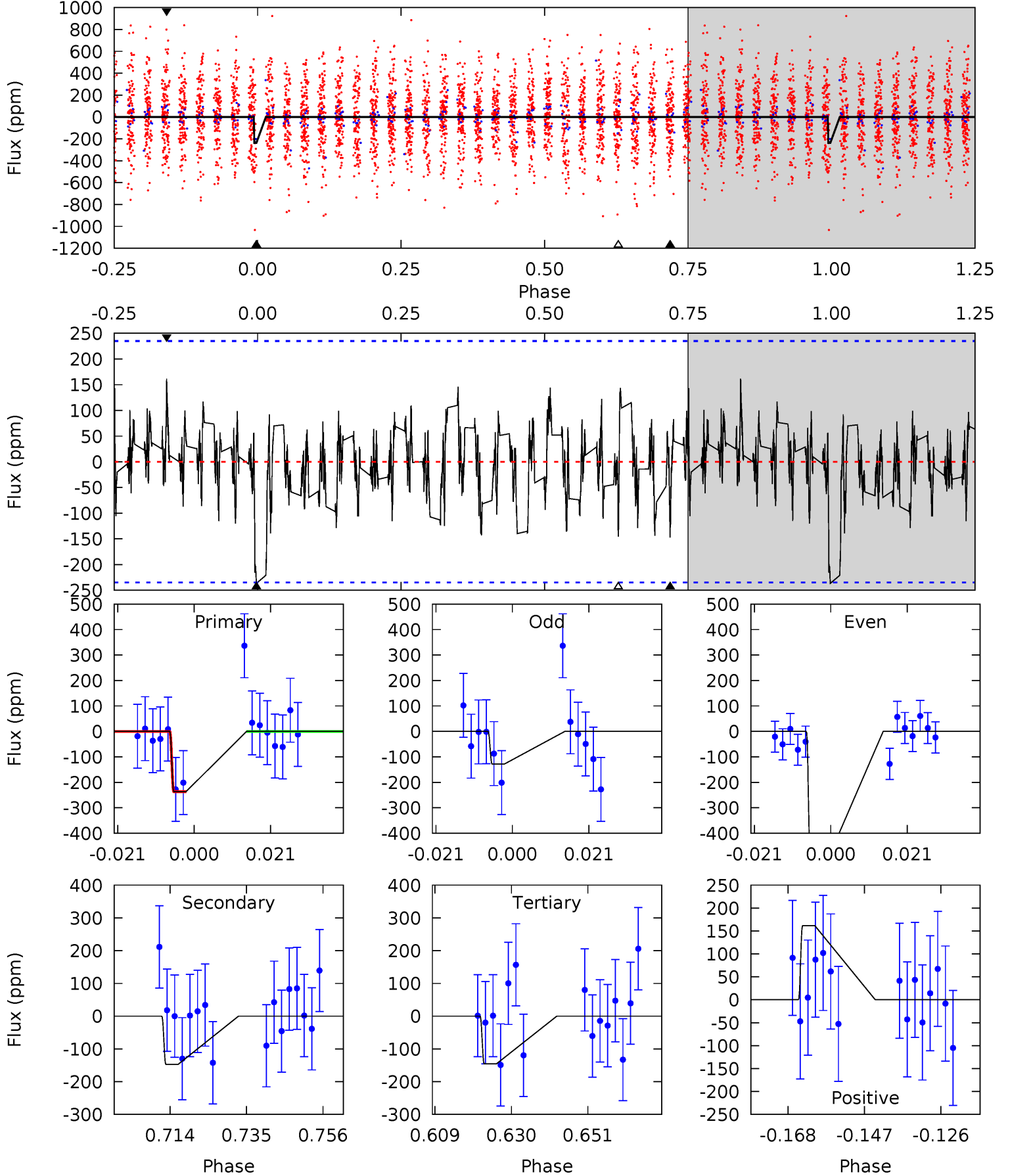
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.85	4.89	4.73	5.64	4.88	2.30	1.80	4.13	3.21	0.16	-0.75	0.03	0.34	0.39	1.08



Alt Model-Shift Uniqueness Test

005025217-04, P = 29.489543 Days, E = 129.712657 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.91	3.05	3.03	3.35	4.88	2.31	1.09	1.89	1.56	0.03	-0.30	4.14	0	0.41	0



Stellar Parameters For KIC 005025217

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6286^{+157}_{-188}	$3.056^{+0.435}_{-0.145}$	$-0.500^{+0.350}_{-0.300}$	$7.342^{+1.923}_{-3.572}$	$2.233^{+0.311}_{-0.673}$	$0.008^{+0.034}_{-0.003}$
	+2%/-3%	+14%/-5%	+70%/-60%	+26%/-49%	+14%/-30%	+425%/-42%
Source	PHO1	FLK73	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 005025217-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-121 ± 25	$13.93^{+4.13}_{-3.54}$	2067^{+172}_{-258}	4859^{+418}_{-345}	20^{+16}_{-8}
Alt.	-147 ± 48	$11.37^{+3.34}_{-3.03}$	2076^{+174}_{-242}	5593^{+666}_{-620}	36^{+33}_{-16}

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 $A_{obs} \gg 1.0$

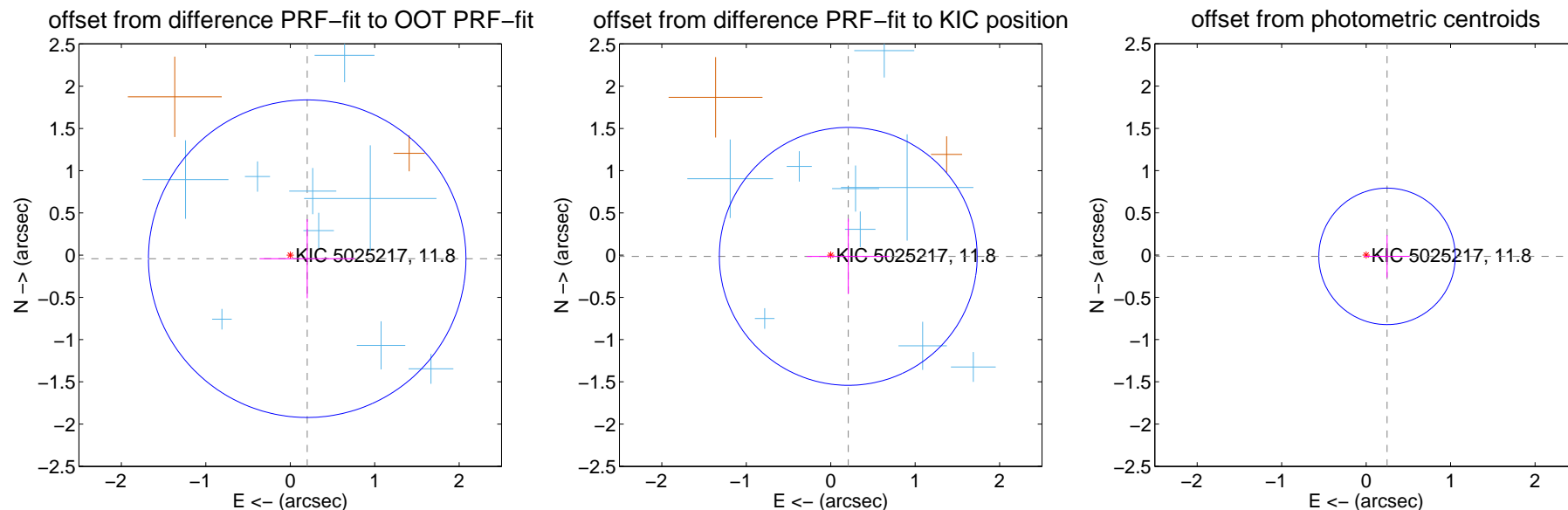
DV Centroid Data

Supplemental centroid analysis for 005025217-04. **Kepler magnitude: 11.80.** Transit SNR 7.56

There are 9 quarters with good PRF difference image offsets

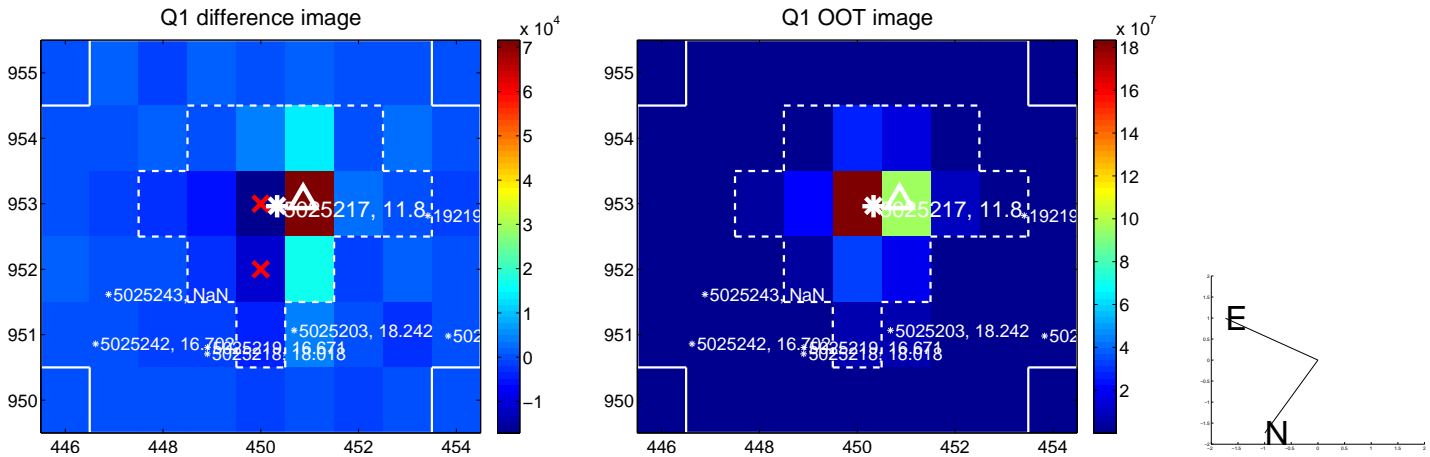
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.205 ± 0.627	0.33	-0.200 ± 0.564	-0.042 ± 0.467
PRF-fit source offset from KIC position	0.208 ± 0.509	0.41	-0.208 ± 0.489	-0.014 ± 0.445
photometric centroid source offset	0.25 ± 0.27	0.92	-0.25 ± 0.27	-0.02 ± 0.25

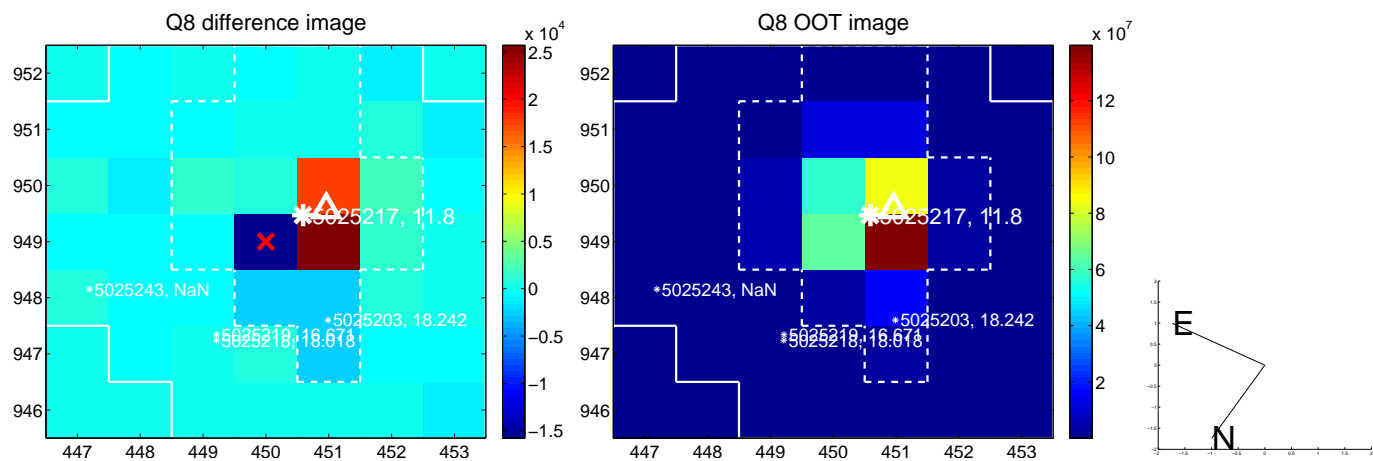
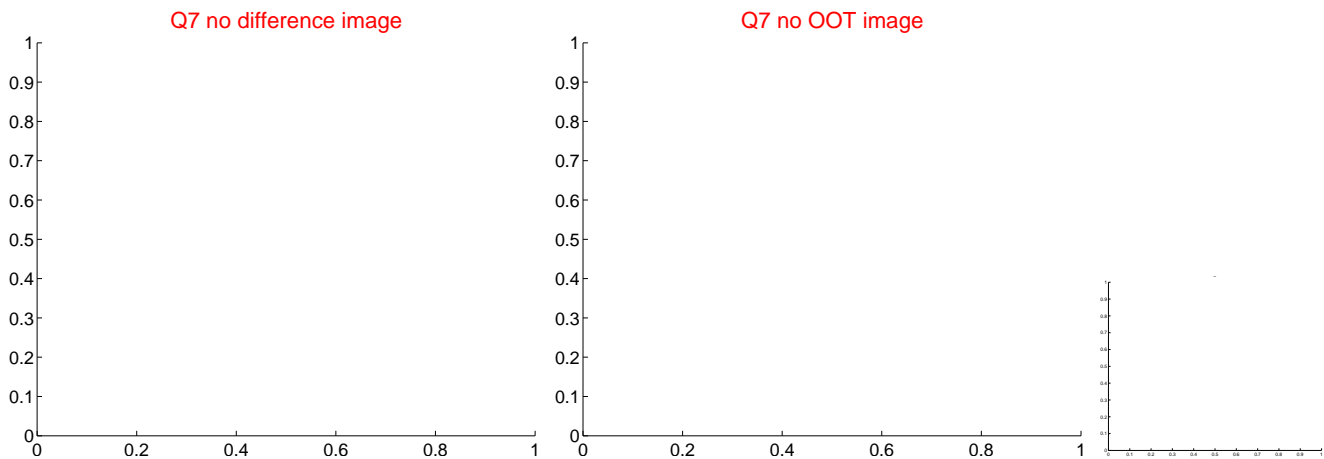
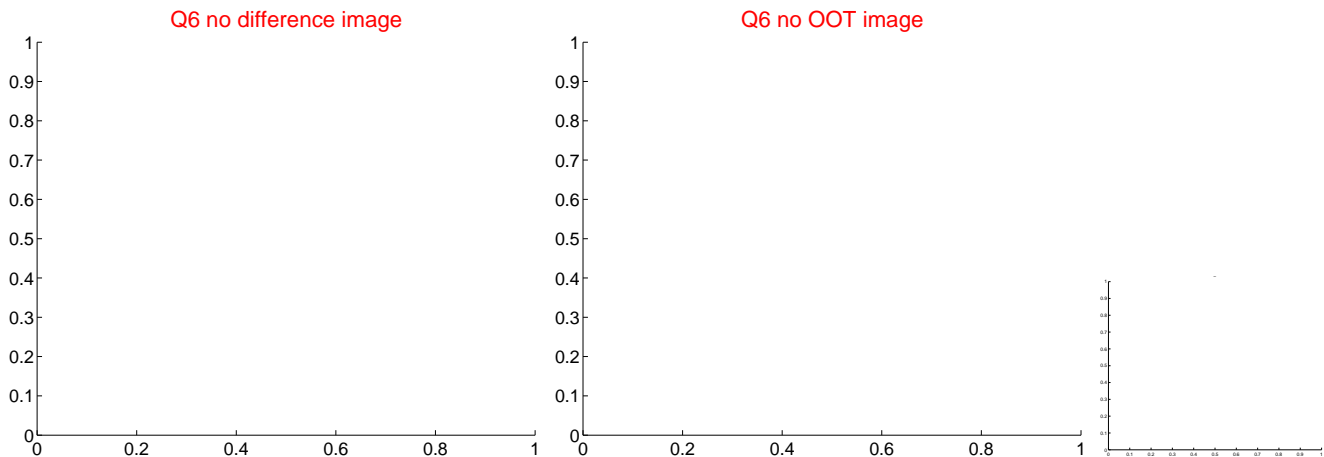
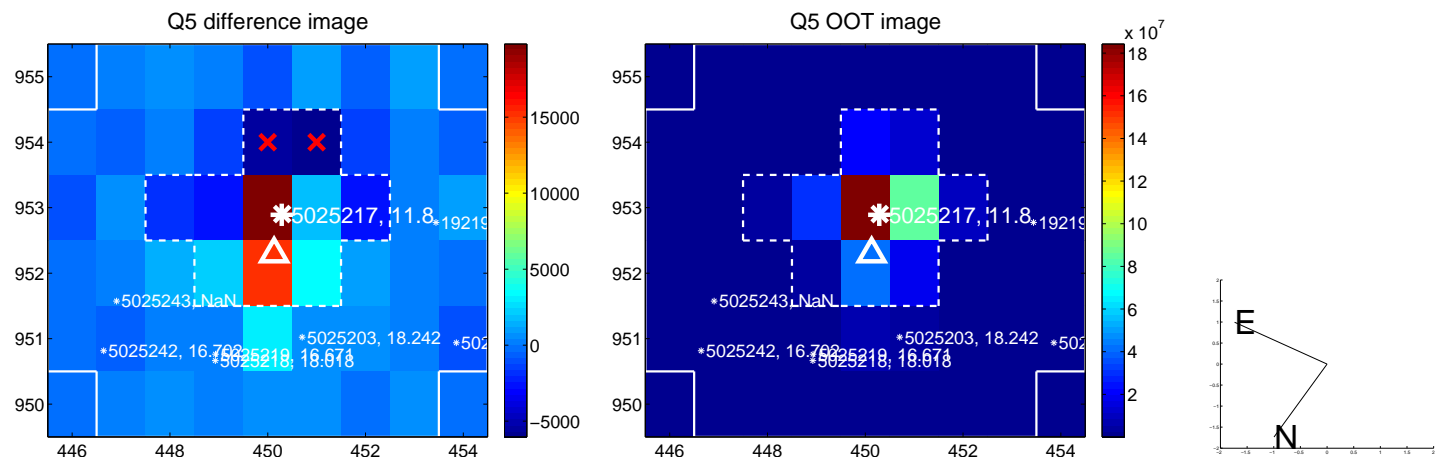


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

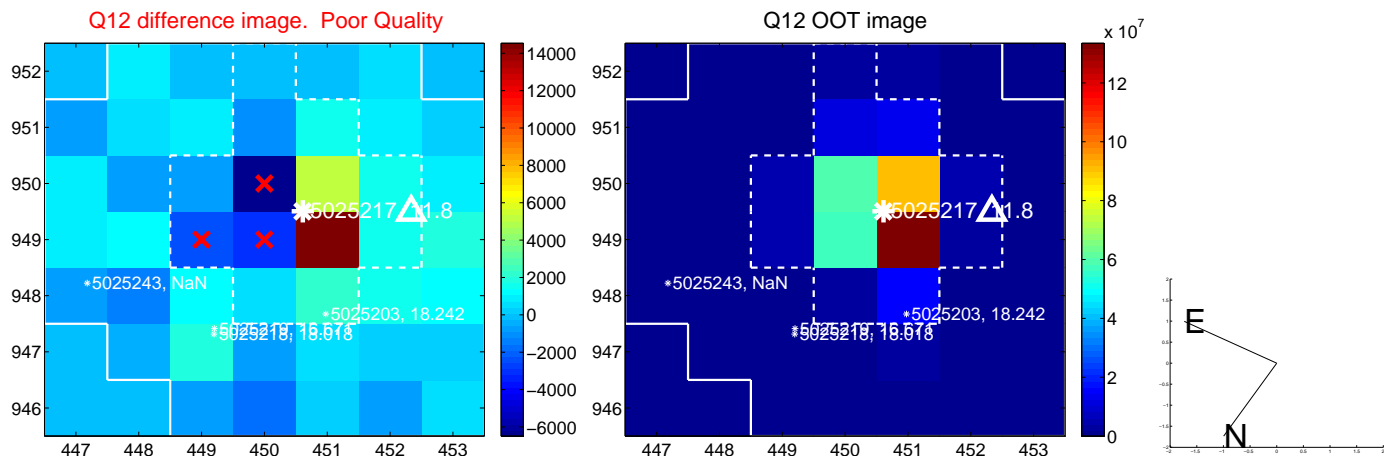
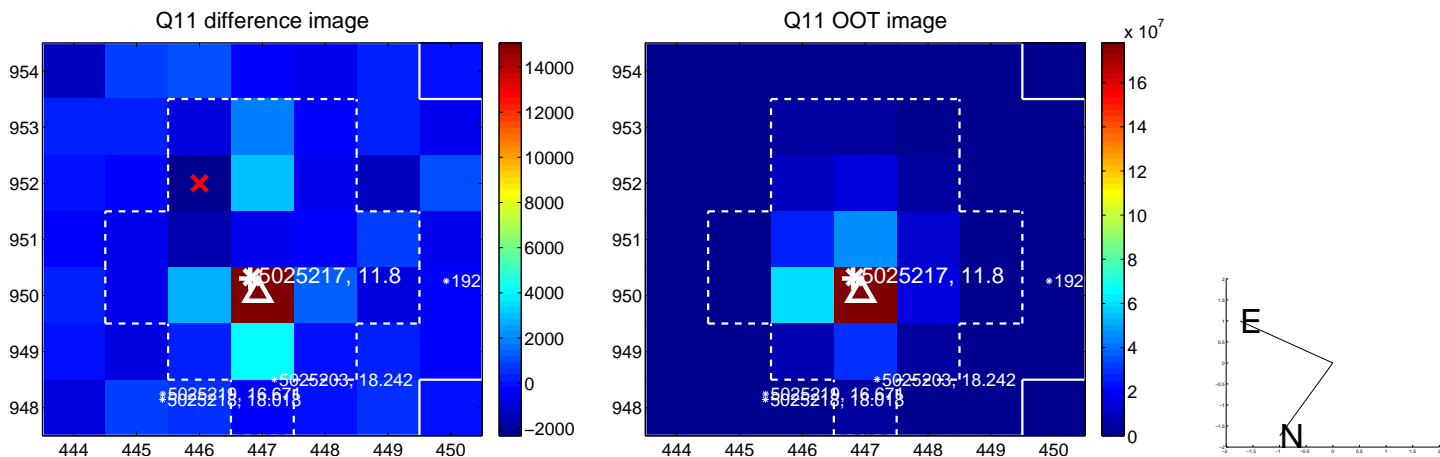
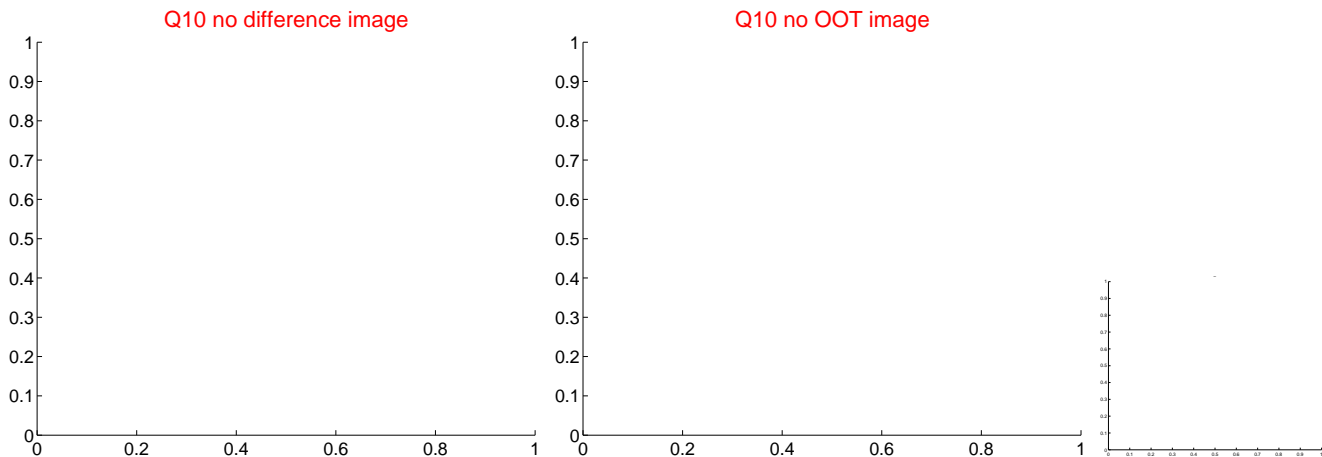
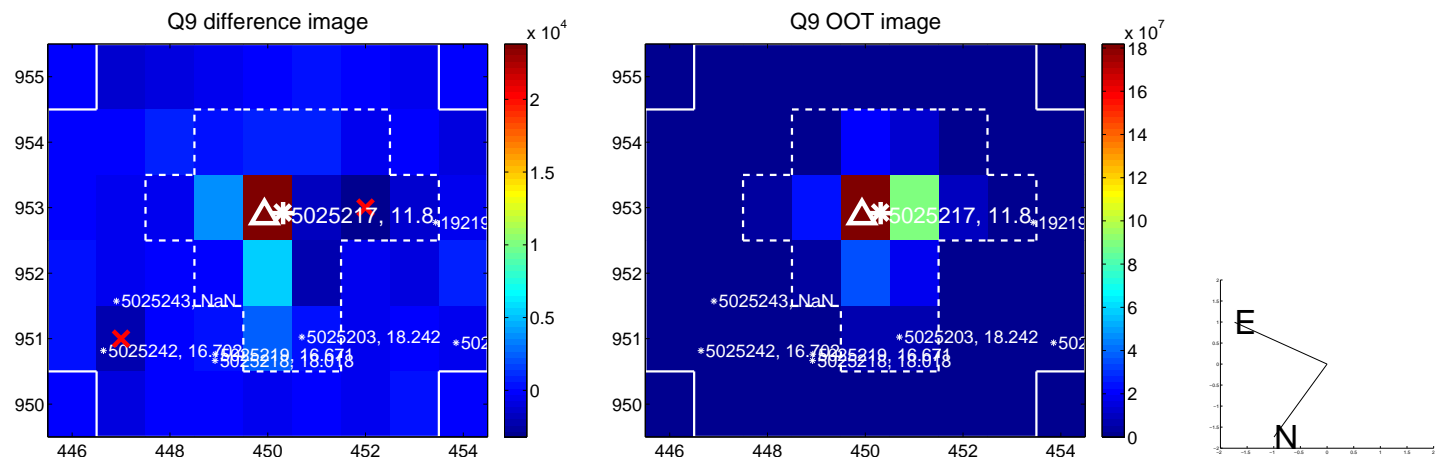
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



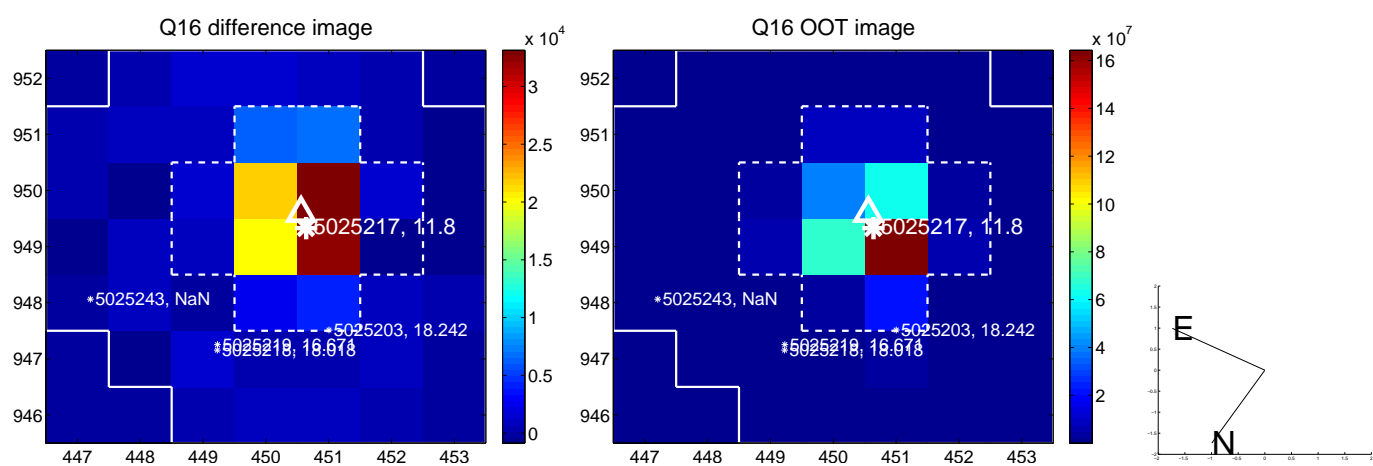
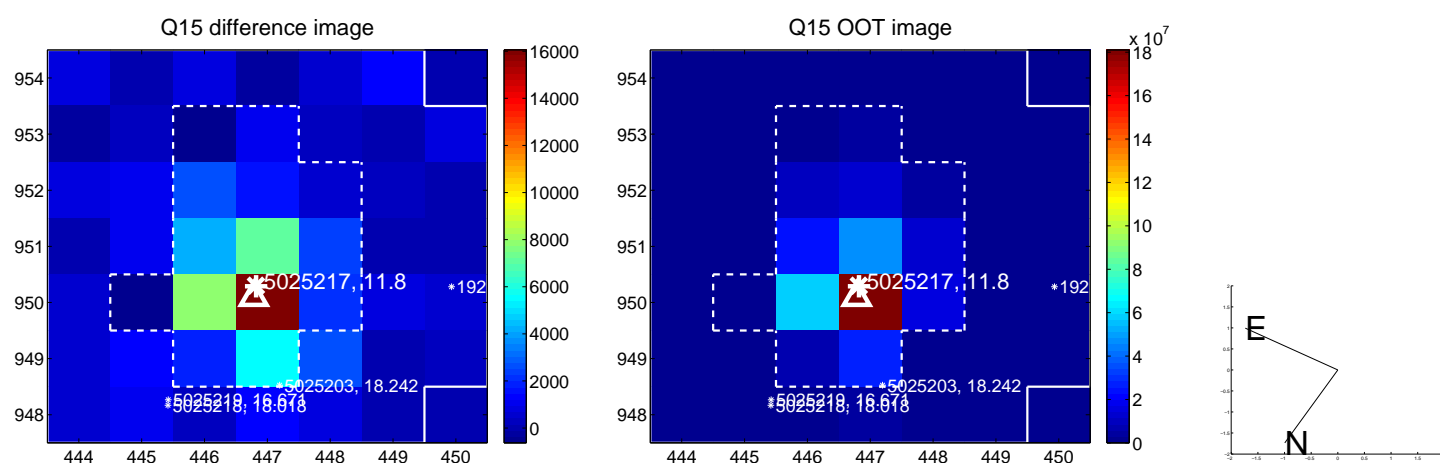
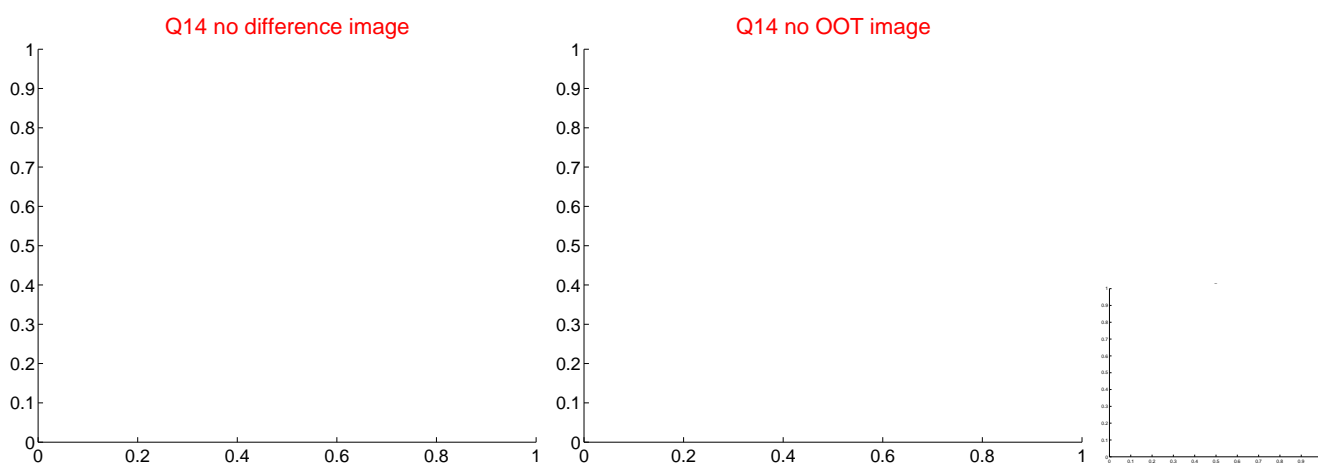
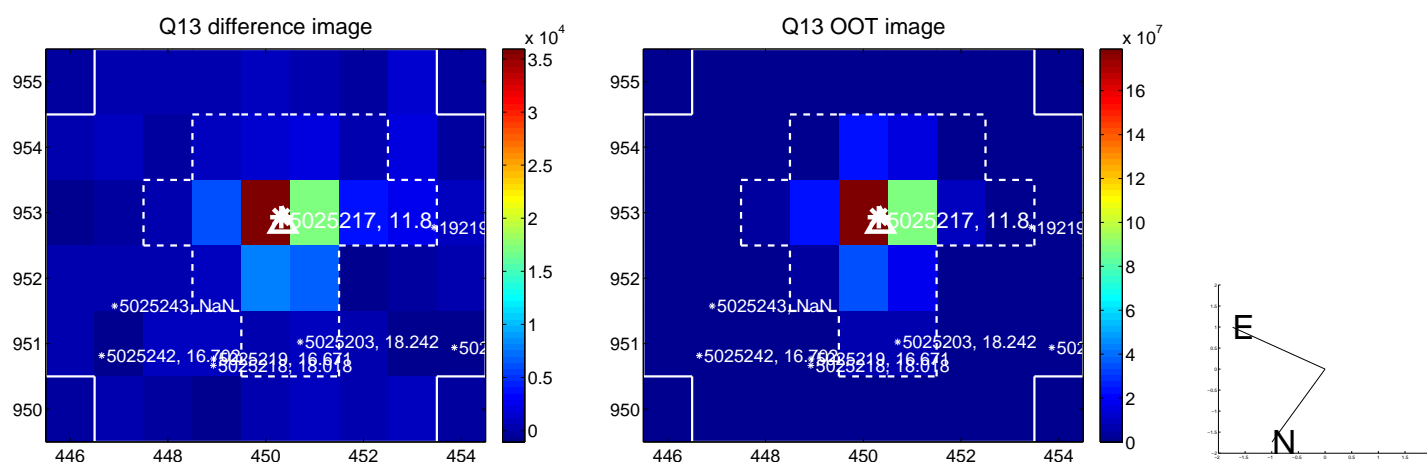
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



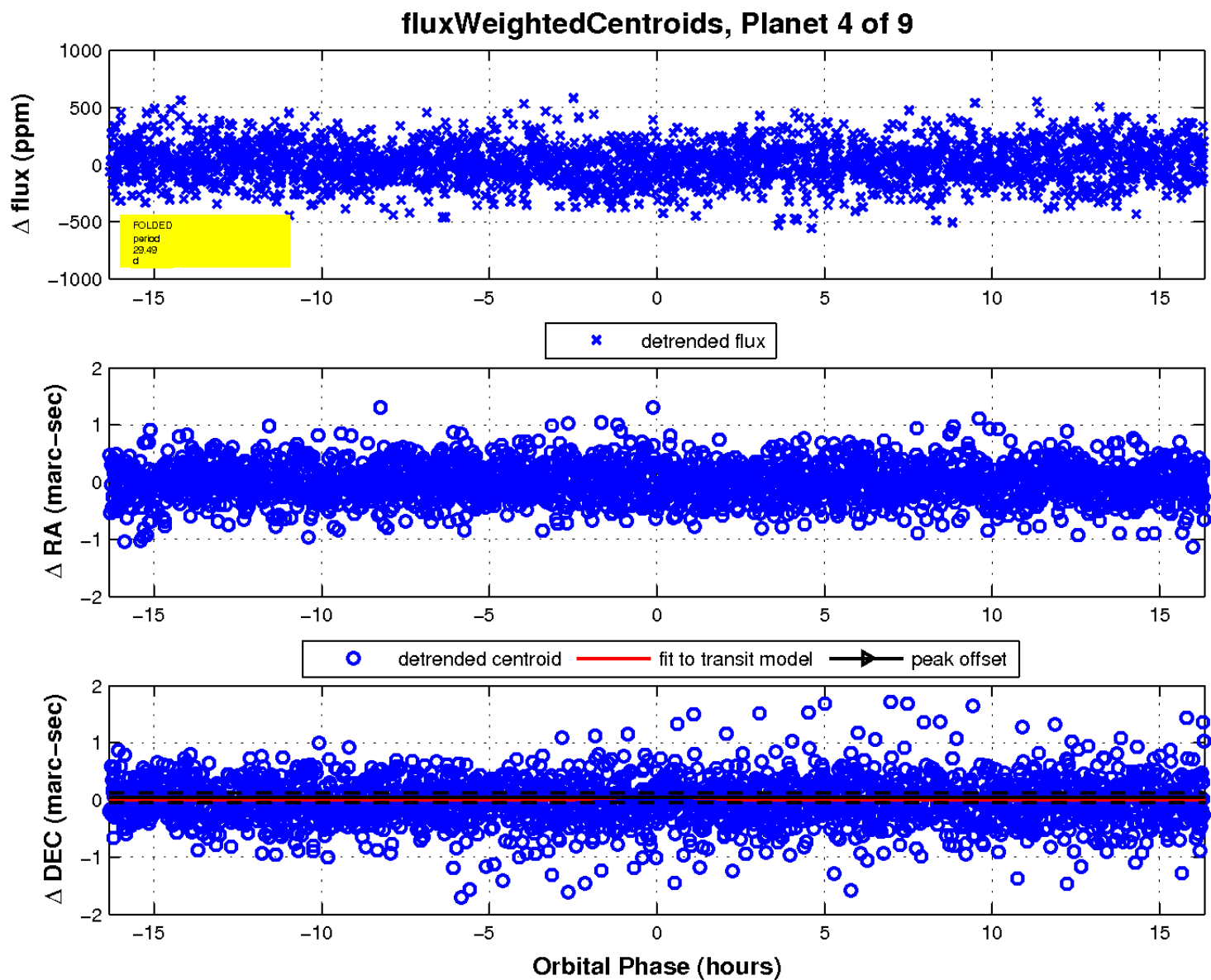
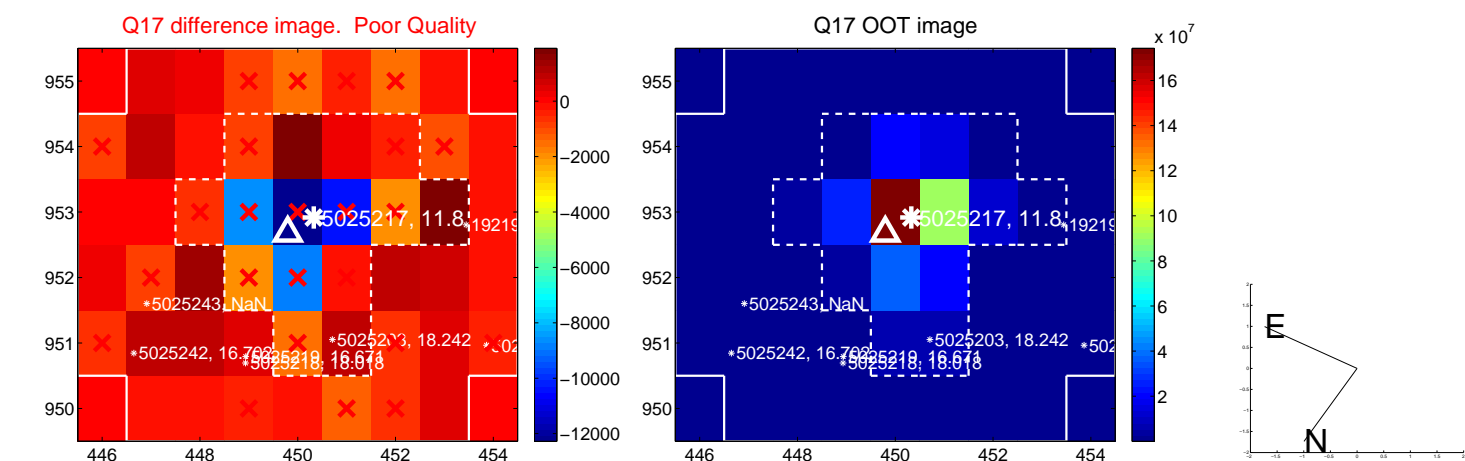
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

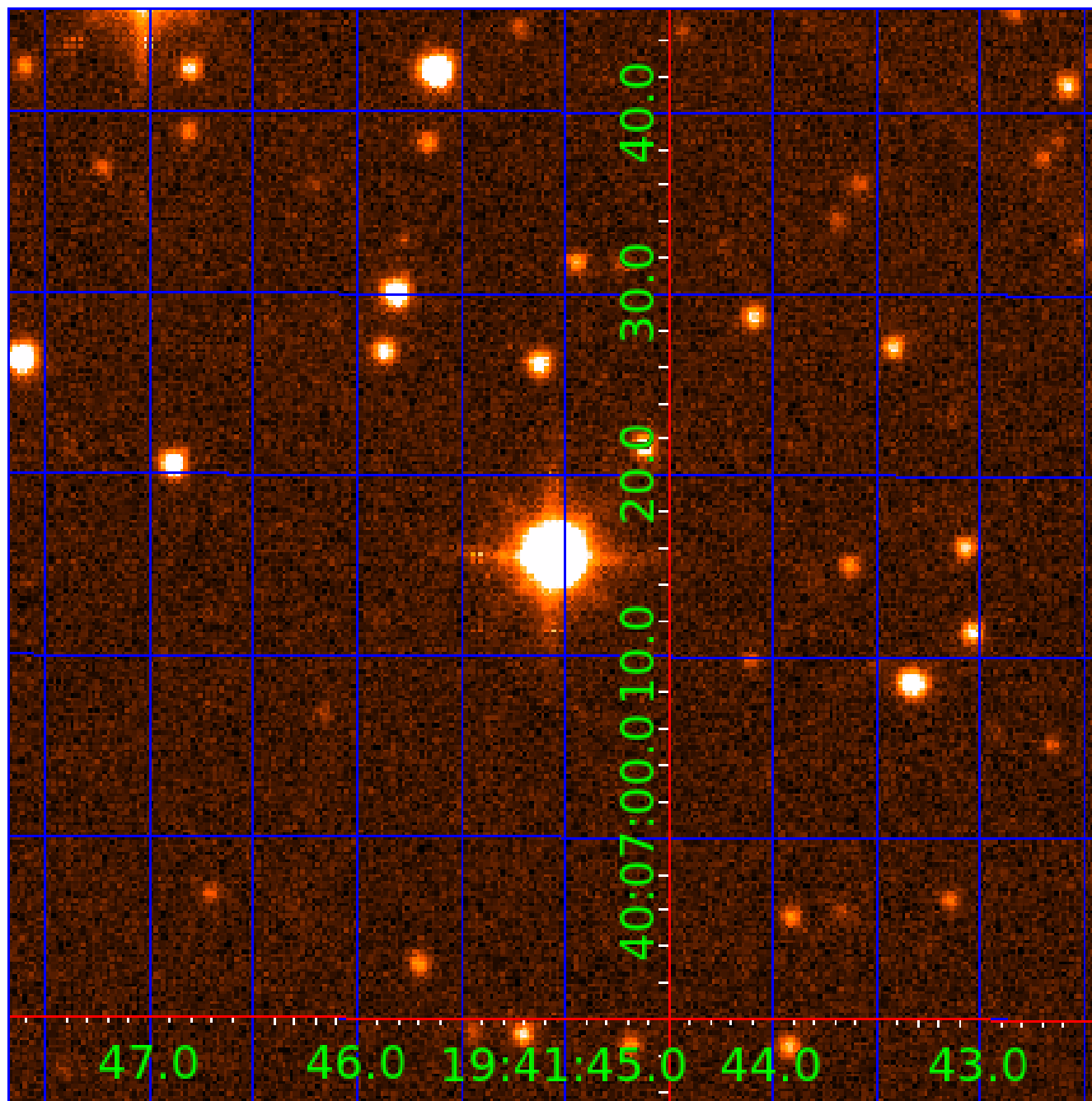


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005025217

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})
005025217-01	OBS	6496.01	1.787604	132.417372	26.4	6.928	10.2	7.7	7.34	6286	4.55	53036.26
005025217-02	OBS	No	1.787610	131.532827	43.6	5.860	10.5	11.1	7.34	6286	7.98	53036.05
005025217-03	OBS	No	18.447369	148.951248	218.2	8.613	9.2	8.9	7.34	6286	12.39	2360.60
005025217-04	OBS	No	29.489063	159.114814	255.0	5.450	9.3	7.6	7.34	6286	15.32	1262.95
005025217-05	OBS	No	19.418689	137.006080	201.0	8.561	8.8	8.4	7.34	6286	11.88	2204.49
005025217-06	OBS	No	86.793263	178.302201	475.1	4.020	8.5	8.4	7.34	6286	18.10	299.42
005025217-07	OBS	No	10.595765	139.960544	215.0	1.911	8.0	7.8	7.34	6286	12.51	4944.15
005025217-08	OBS	No	12.464005	142.264307	176.1	2.619	8.0	7.3	7.34	6286	10.22	3981.60
005025217-09	OBS	No	12.084867	134.855286	99.8	3.500	7.9	-1.0	7.34	6286	7.37	4149.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005025217-01	OBS	FP	0.00	1	0	0	0	LPP_DV
005025217-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005025217-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005025217-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_NOFITS

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.

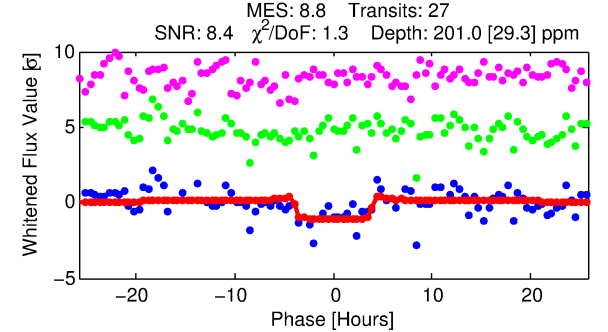
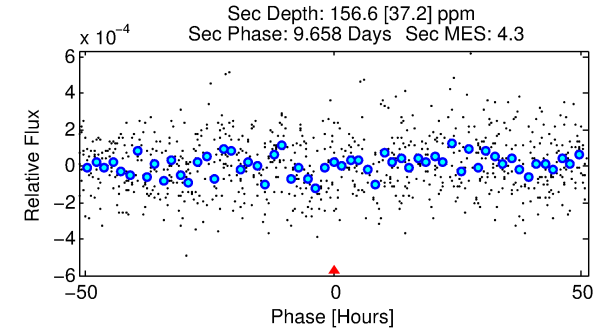
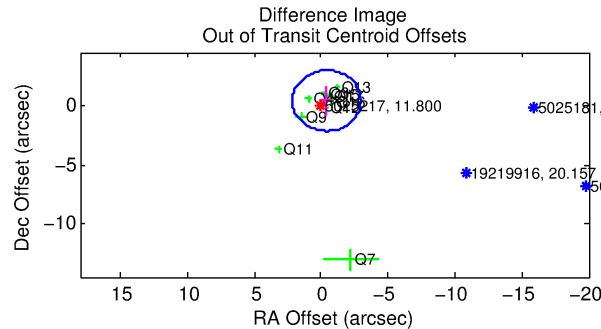
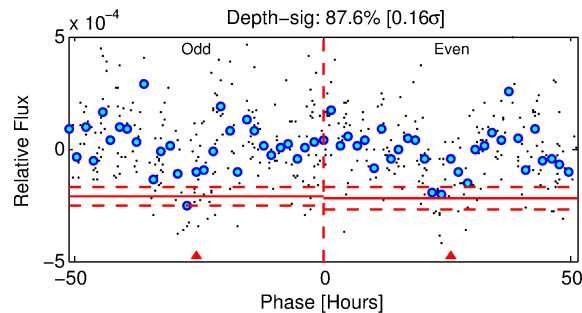
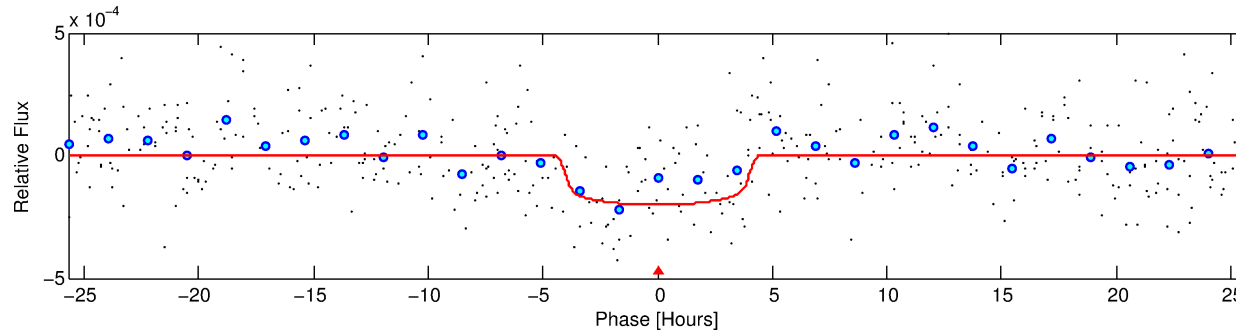
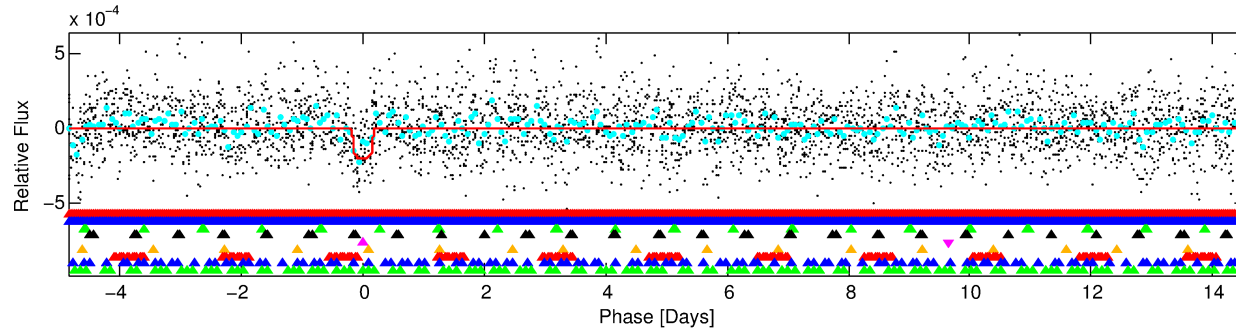
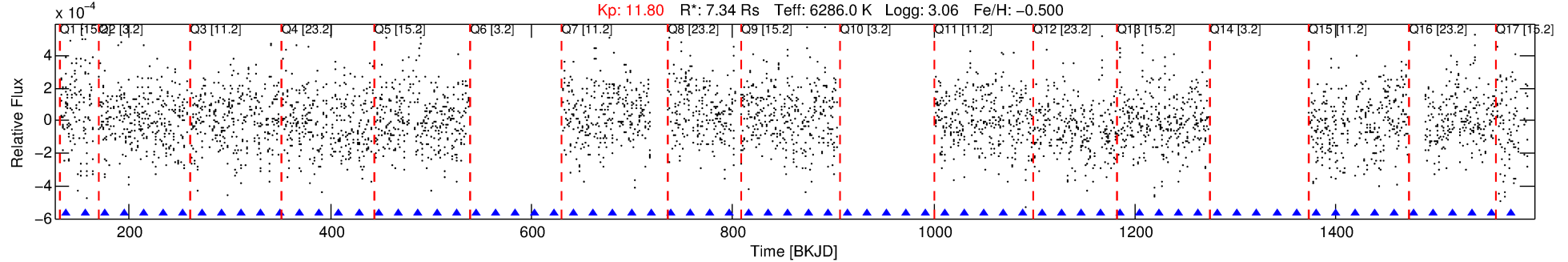
Ephemeris Match Information For 005025217-05

No Significant Match Found

DV One-Page Summary

KIC: 5025217 Candidate: 5 of 9 Period: 19.419 d
KOI: K06496 Corr: No Ephemeris Match

Kp: 11.80 R*: 7.34 Rs Teff: 6286.0 K Logg: 3.06 Fe/H: -0.500



DV Fit Results:

Period = 19.41869 [0.00035] d
Epoch = 137.0061 [0.0130] BKJD
Rp/R* = 0.0148 [0.0038]
a/R* = 9.19 [12.13]
b = 0.87 [0.38]
Seff = 2204.49 [1657.62]
Teq = 1747 [328] K
Rp = 11.88 [6.52] Re
a = 0.1849 [0.0861] AU
Ag = 20.86 [19.41] [1.02σ]
Teffp = 5773 [827] K [4.52σ]

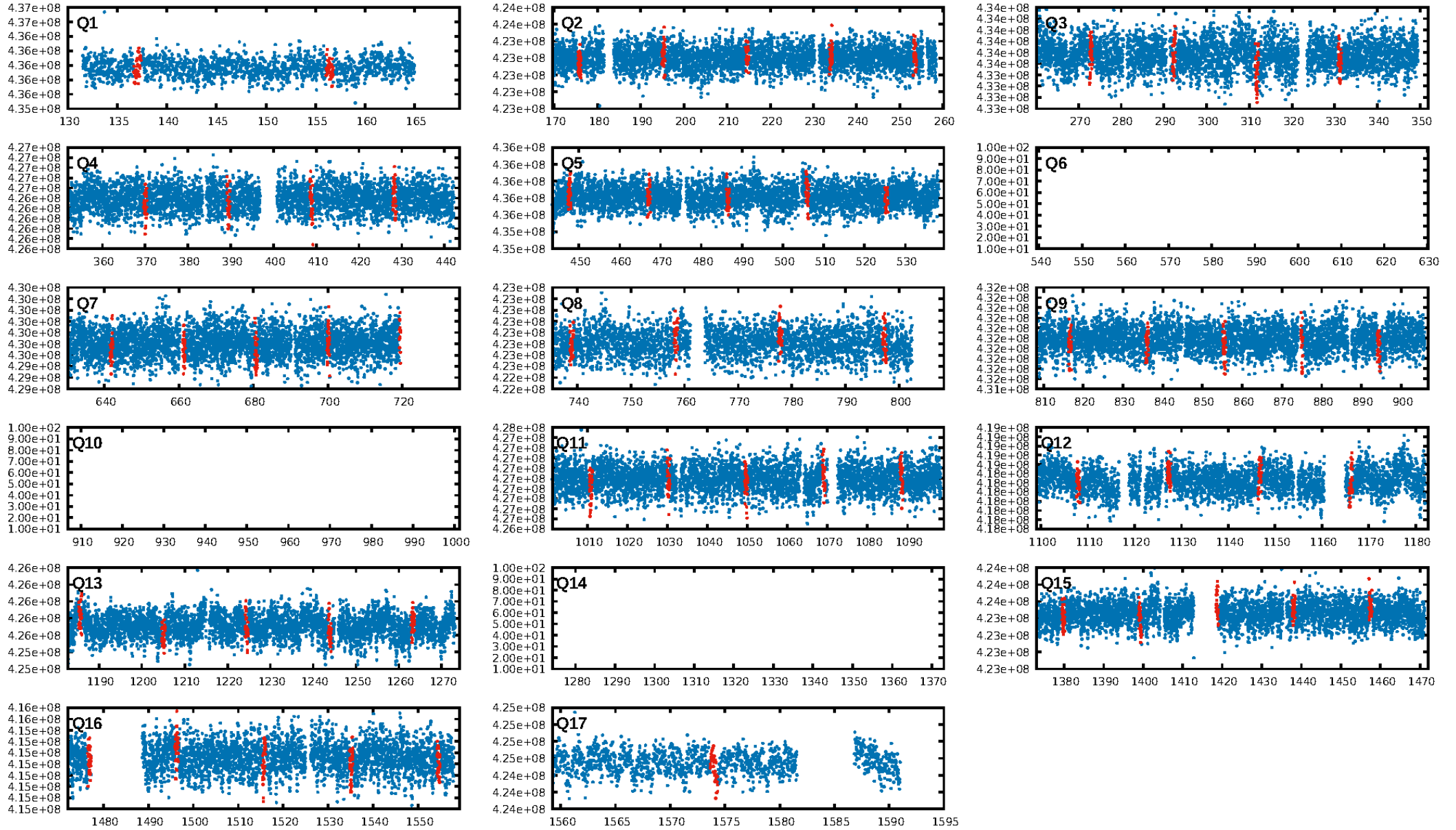
DV Diagnostic Results:

ShortPeriod-sig: 94.5% [1.92σ]
LongPeriod-sig: 100.0% [23.82σ]
ModelChiSquare2-sig: 0.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [27/27]
GhostDiagnostic-chr: 1.287
Centroid-sig: N/A
Centroid-so: 0.350 arcsec [1.74σ]
OotOffset-rm: 0.570 arcsec [0.67σ]
KicOffset-rm: 0.598 arcsec [0.65σ]
OotOffset-st: 0/4/3/3 [10]
KicOffset-st: 0/4/3/3 [10]
DiffImageQuality-fgm: 0.60 [6/10]
DiffImageOverlap-fno: 0.00 [0/14]

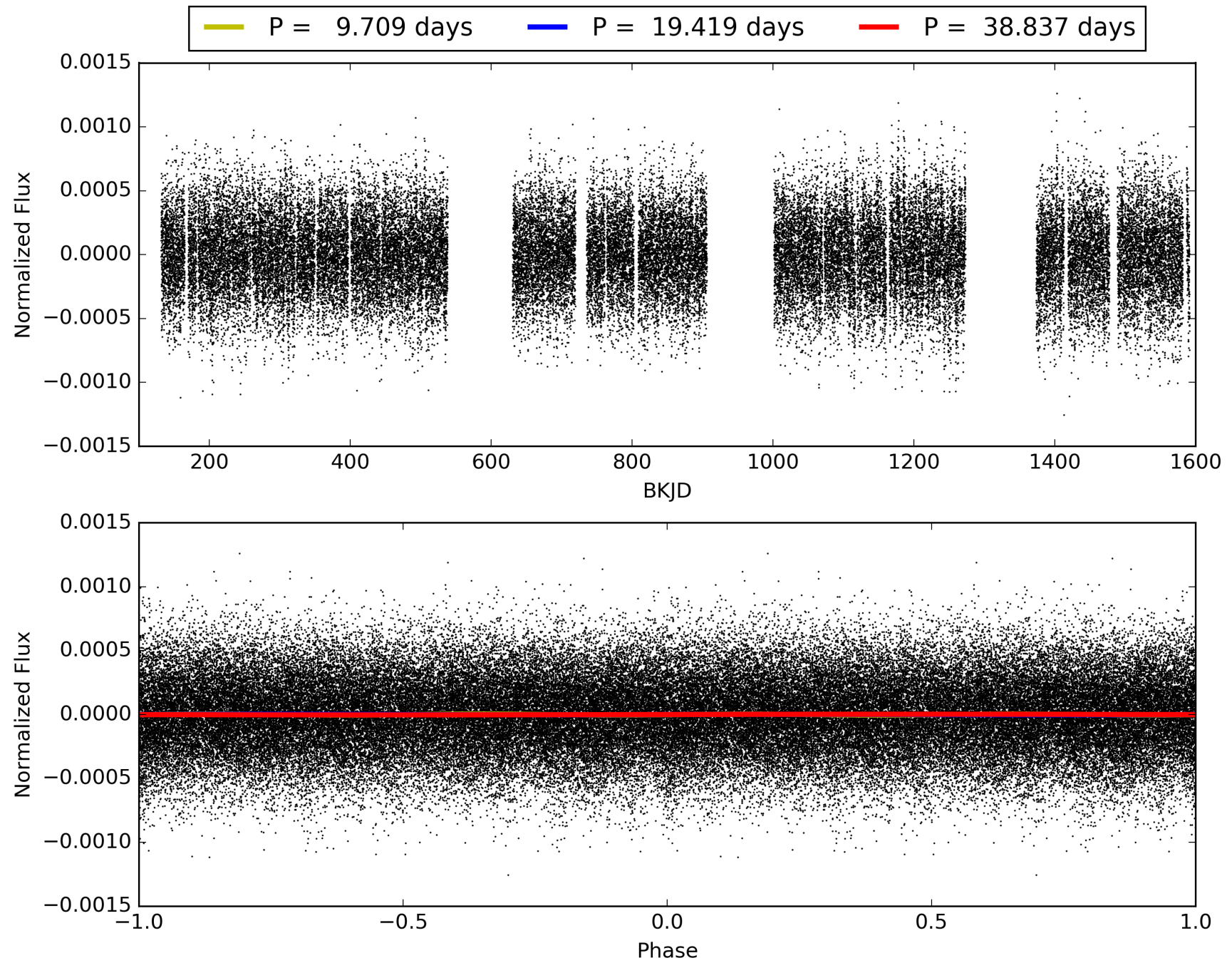
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 06:18:41 Z

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

TCE 005025217-05, PDC Light Curves

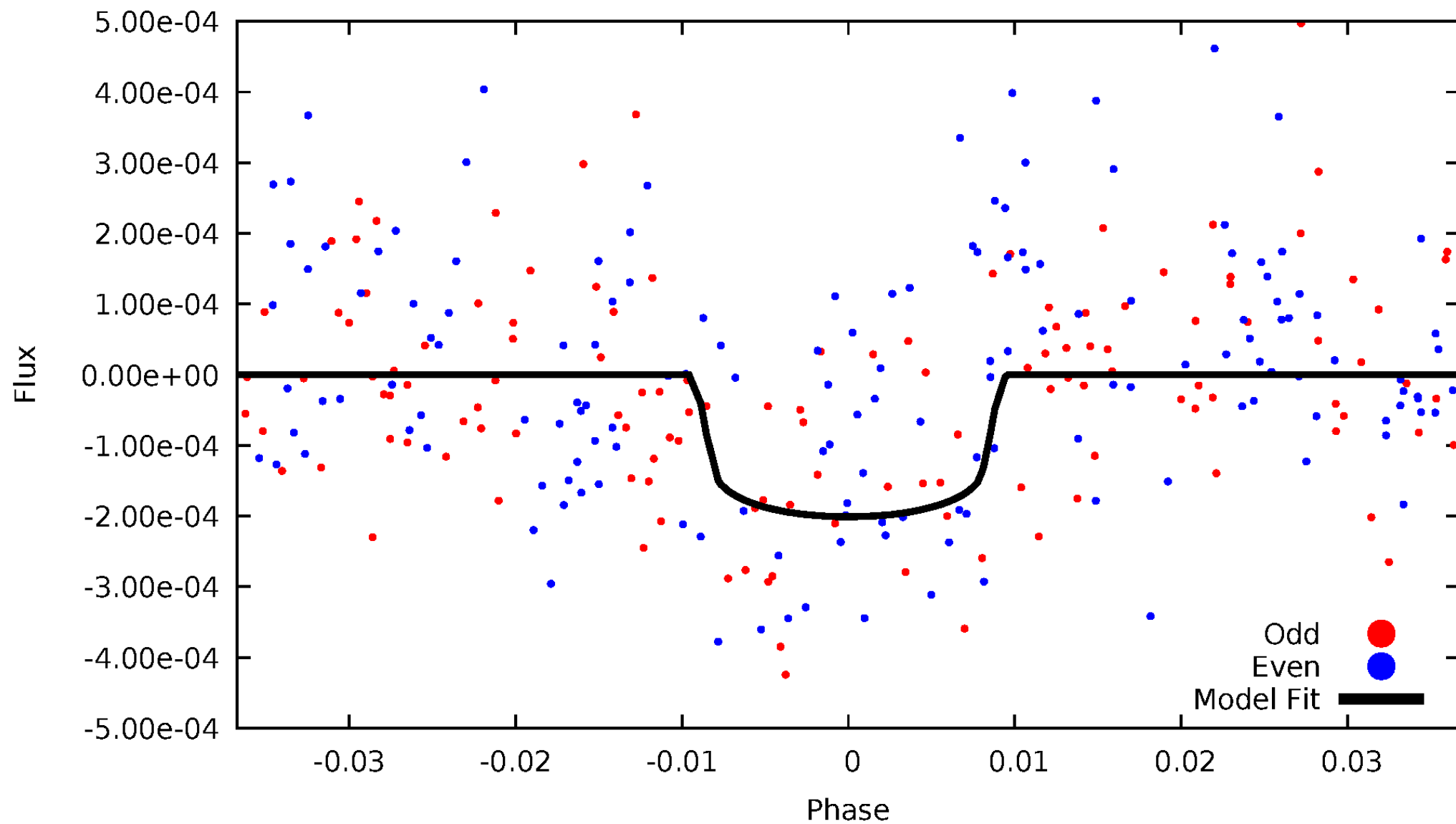


TCE 005025217-05



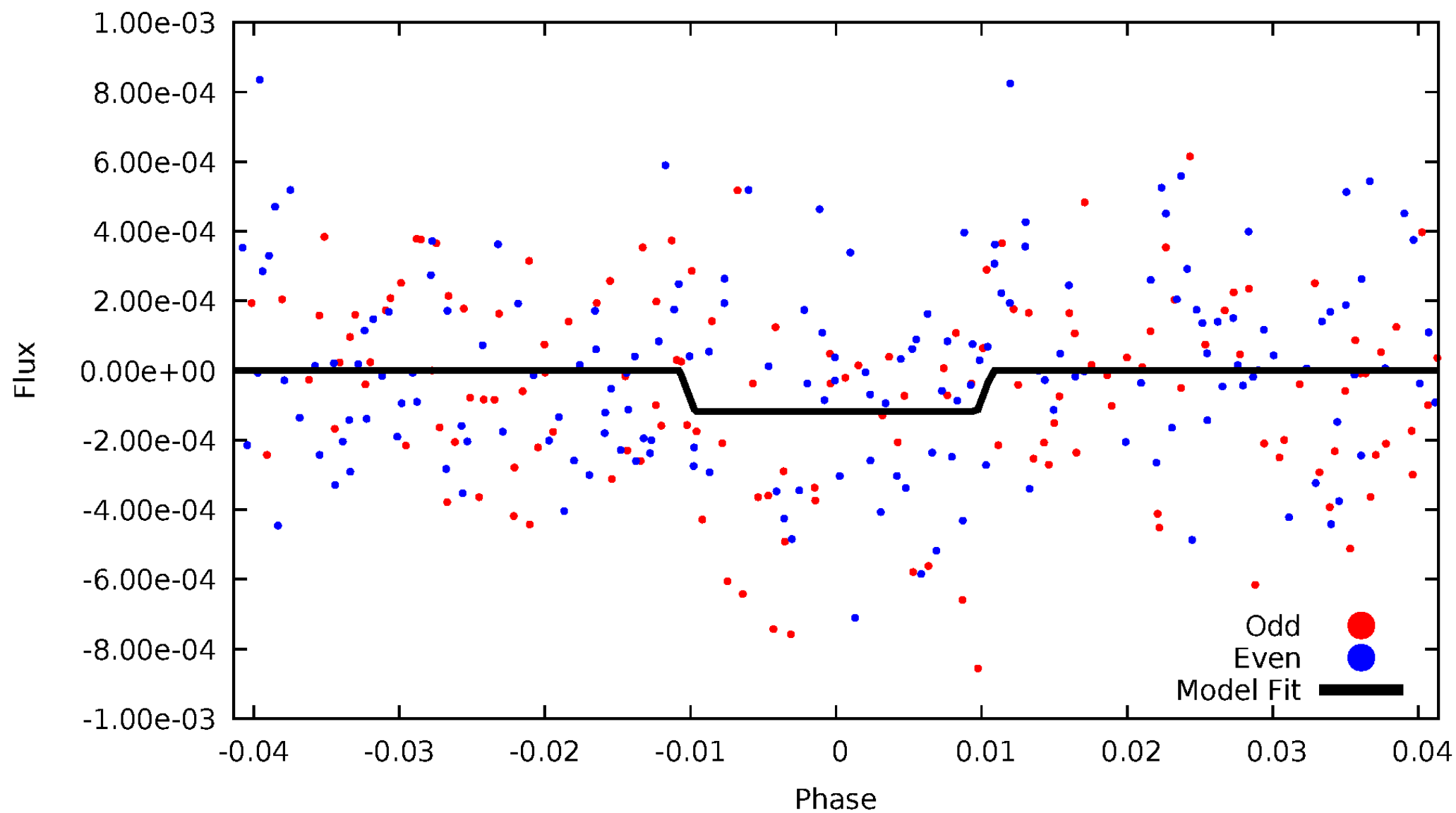
DV Odd/Even

TCE 005025217-05



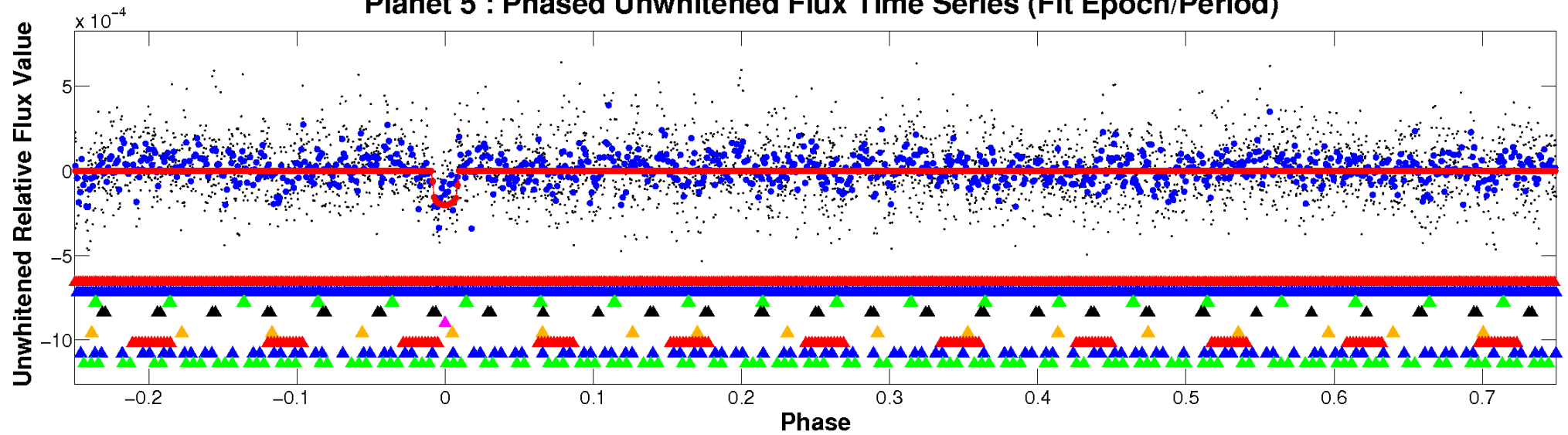
ALT Odd/Even

TCE 005025217-05

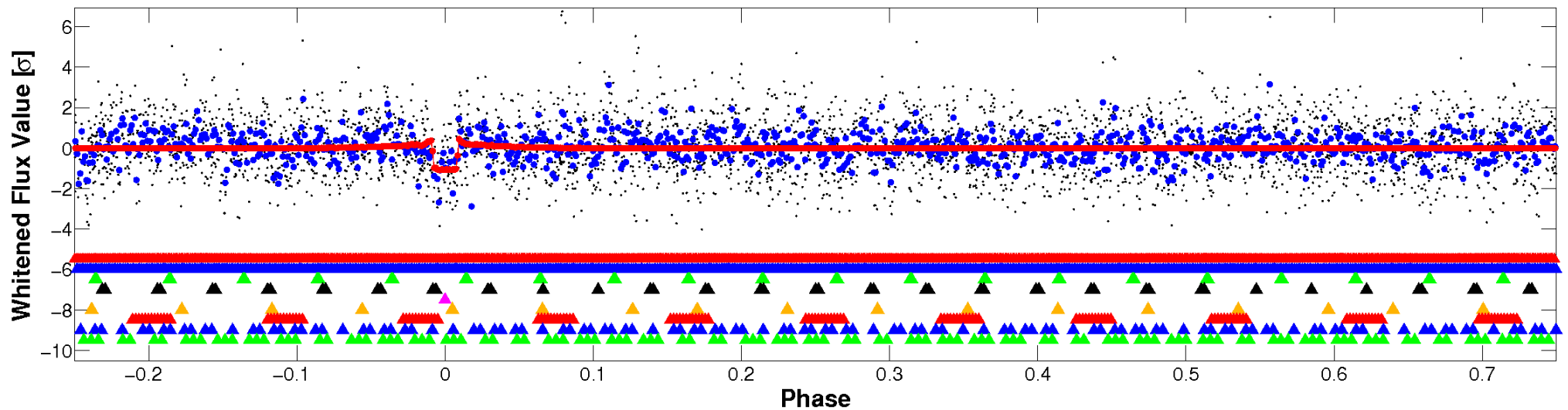


Non-Whitened Vs. Whitened Light Curve

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

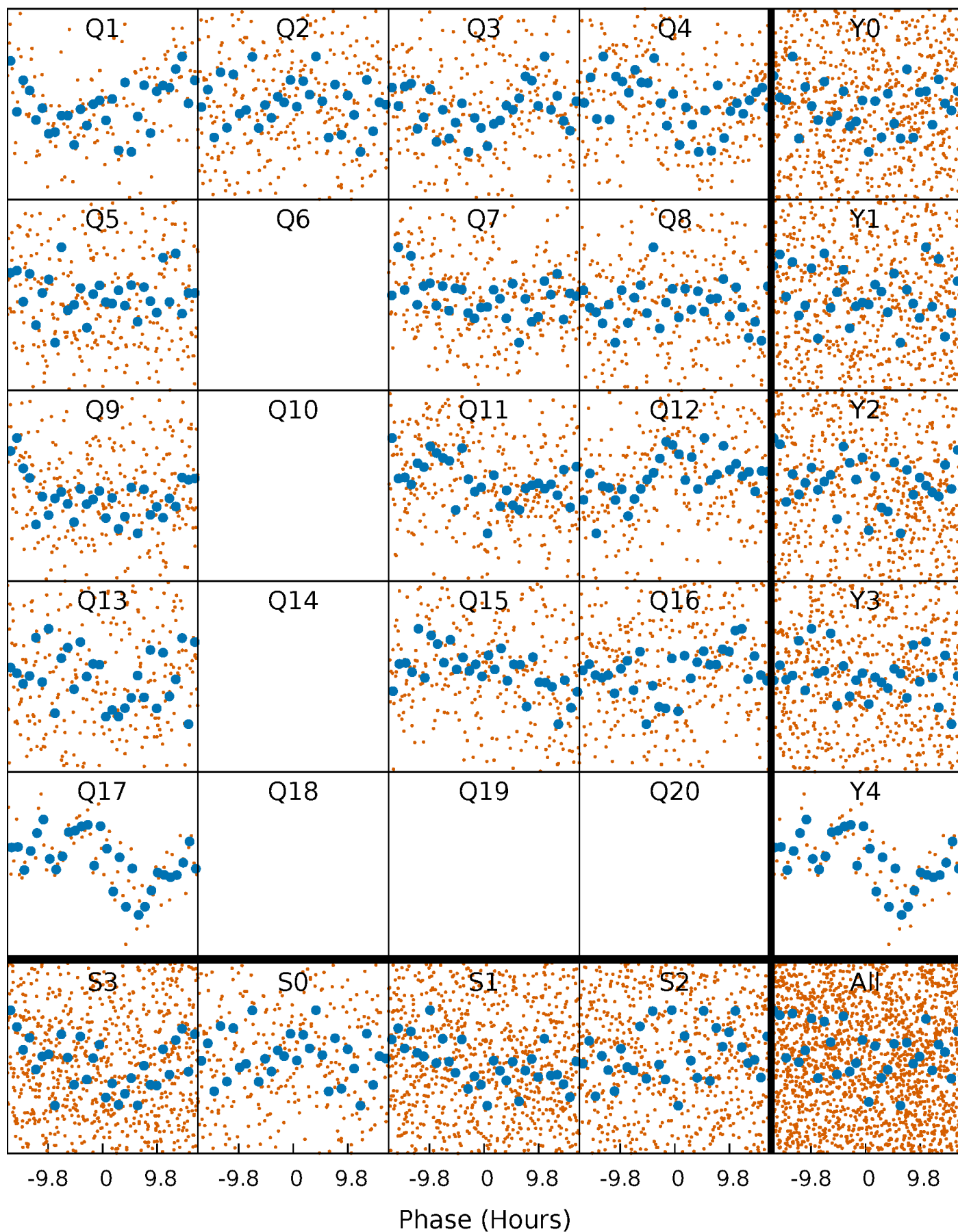


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



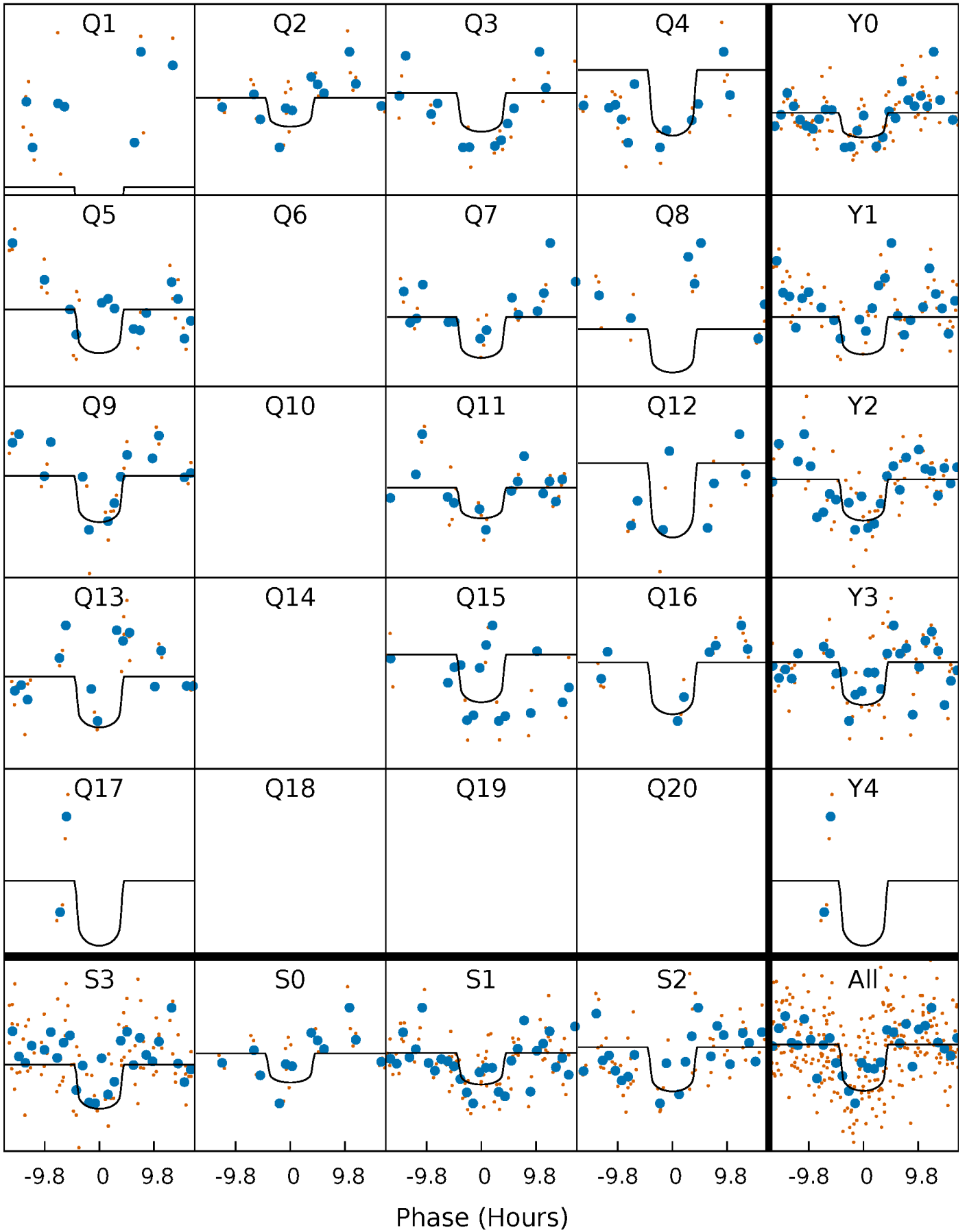
PDC Quarter-Phased Transit Curves

TCE 005025217-05 P= 19.418689 Days $T_0=137.006080$ (BKJD)



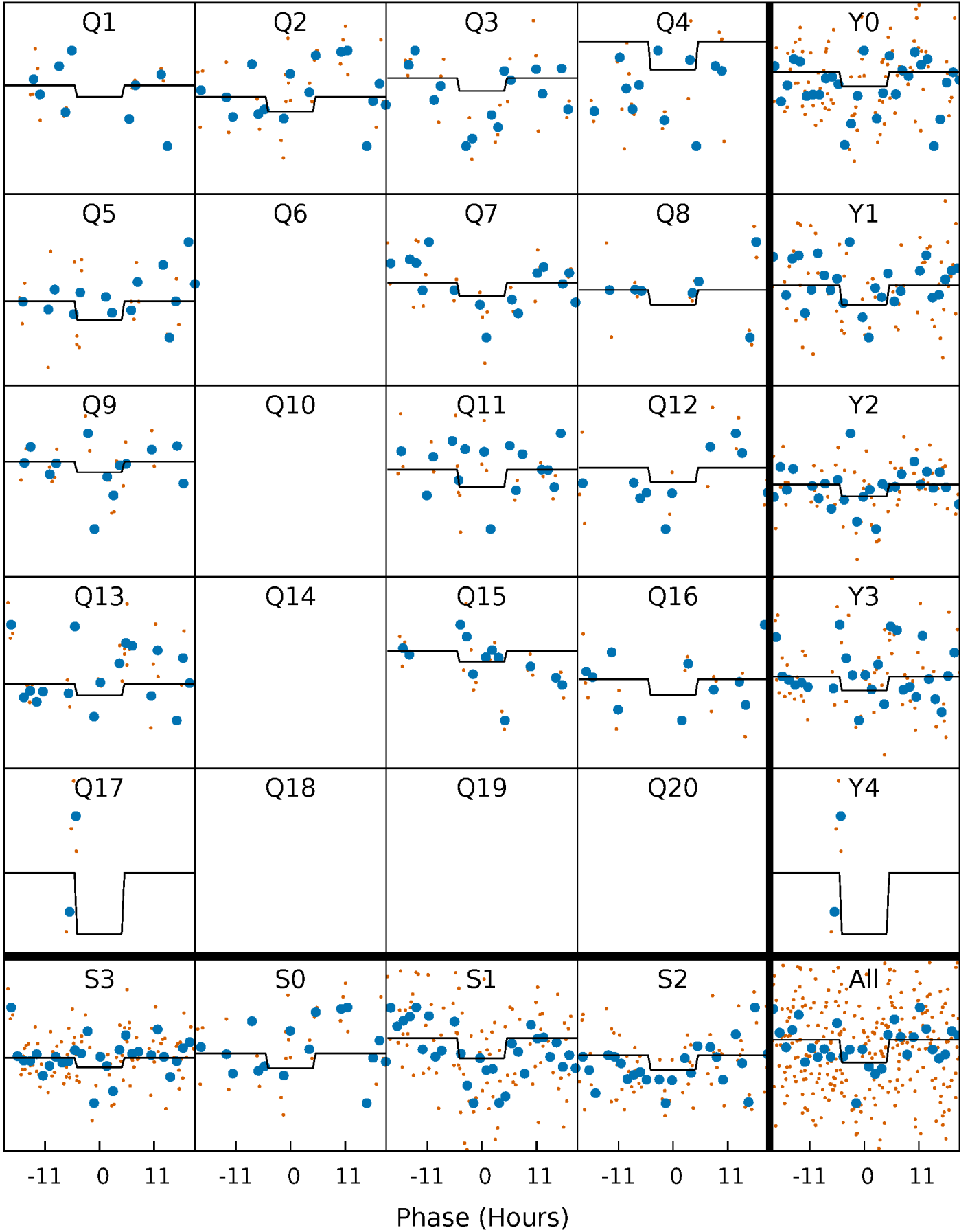
DV Quarter-Phased Transit Curves

TCE 005025217-05 P= 19.418689 Days $T_0=137.006080$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

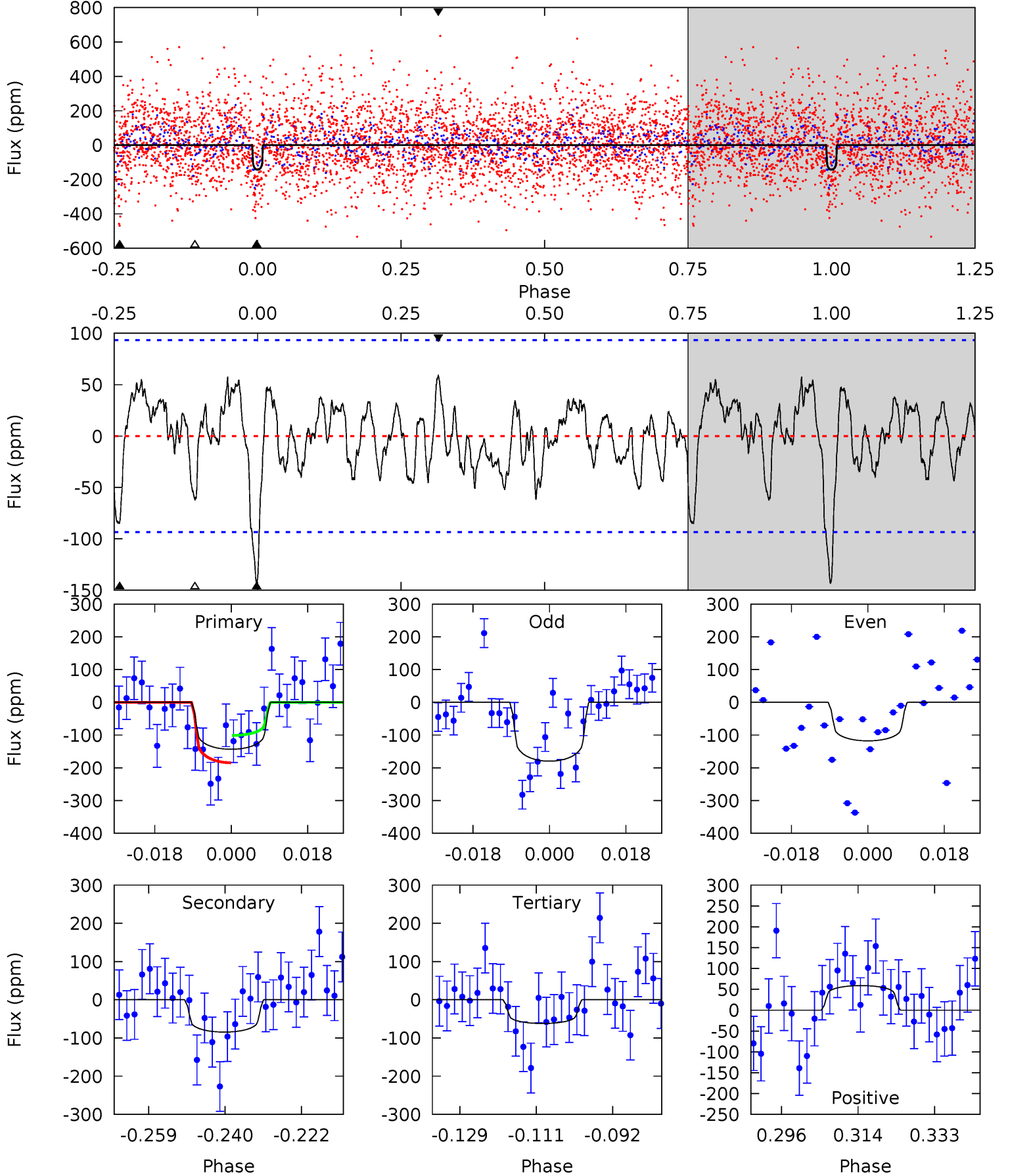
TCE 005025217-05 $P = 19.418016$ Days $T_0 = 137.016615$ (BKJD)



DV Model-Shift Uniqueness Test

005025217-05, $P = 19.418689$ Days, $E = 117.587391$ Days

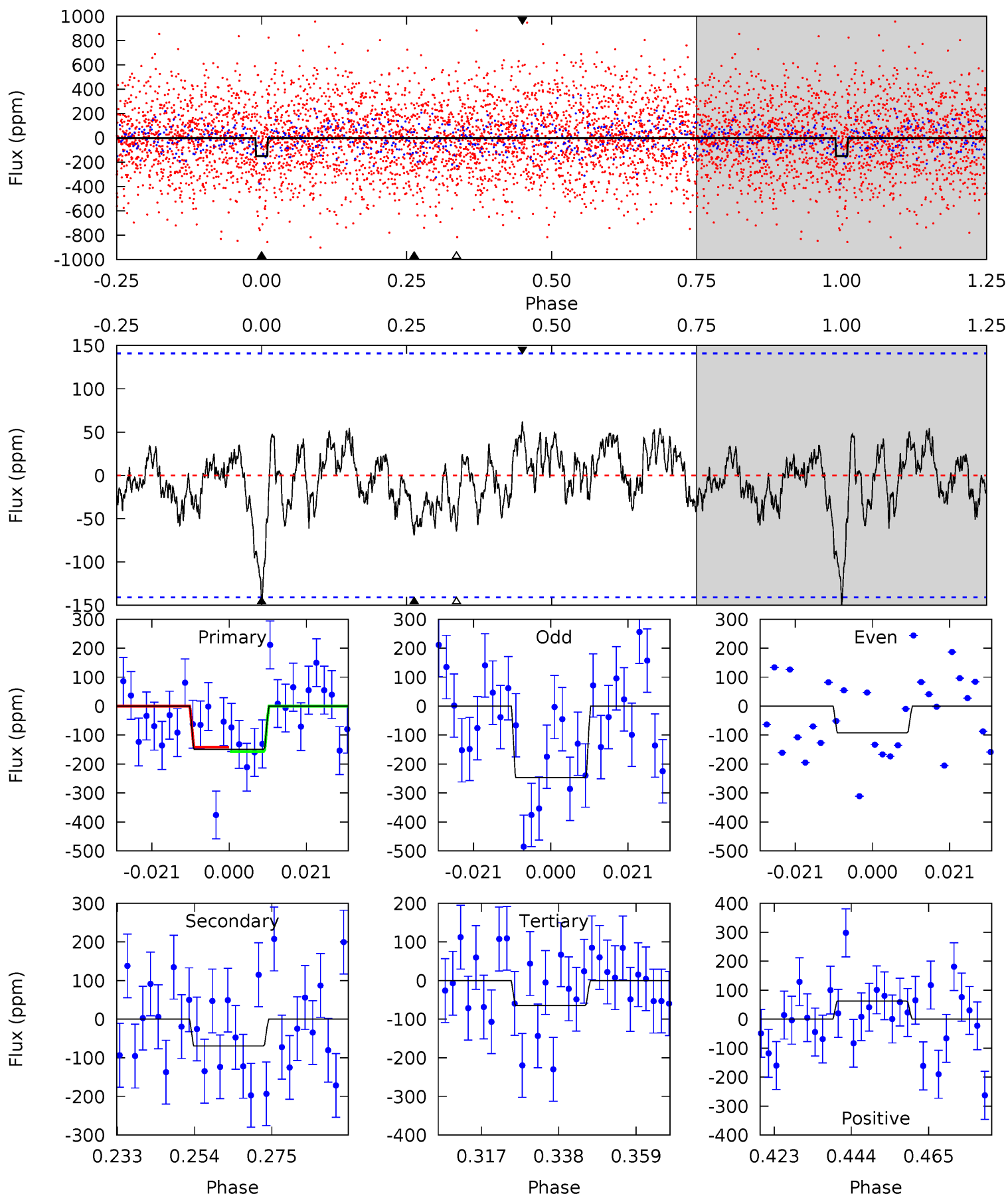
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.55	4.45	3.27	3.10	4.91	2.36	1.36	4.28	4.44	1.18	1.35	1.59	0.76	0.29	2.19



Alt Model-Shift Uniqueness Test

005025217-05, P = 19.418016 Days, E = 117.598599 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.18	2.40	2.24	2.16	4.88	2.31	0.91	2.94	3.02	0.17	0.25	2.65	1.22	0.29	0.28



Stellar Parameters For KIC 005025217

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6286^{+157}_{-188}	$3.056^{+0.435}_{-0.145}$	$-0.500^{+0.350}_{-0.300}$	$7.342^{+1.923}_{-3.572}$	$2.233^{+0.311}_{-0.673}$	$0.008^{+0.034}_{-0.003}$
	+2%/-3%	+14%/-5%	+70%/-60%	+26%/-49%	+14%/-30%	+425%/-42%
Source	PHO1	FLK73	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 005025217-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-85 ± 19	$11.03^{+3.85}_{-3.92}$	2381^{+199}_{-299}	4990^{+715}_{-515}	13^{+17}_{-6}
Alt.	-69 ± 29	$7.64^{+3.61}_{-3.05}$	2384^{+180}_{-303}	5499^{+1461}_{-861}	20^{+43}_{-12}

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

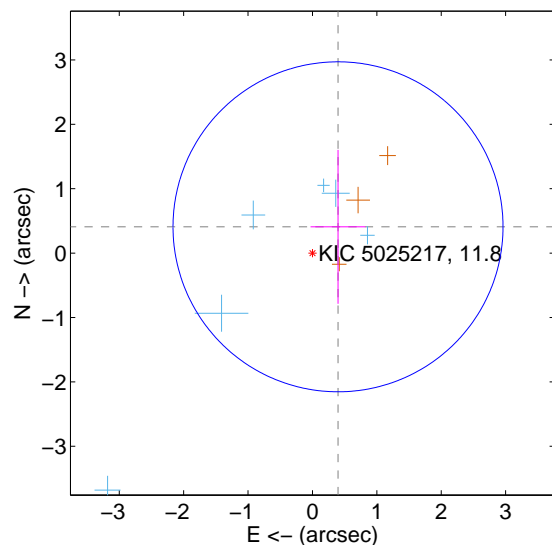
Supplemental centroid analysis for 005025217-05. **Kepler magnitude: 11.80.** Transit SNR 8.42

There are 6 quarters with good PRF difference image offsets

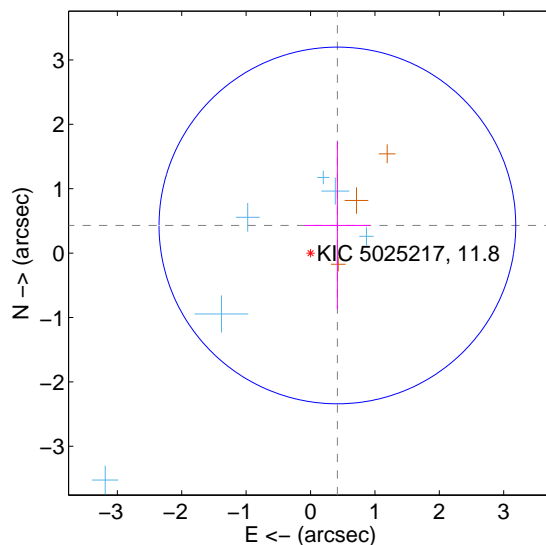
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.570 ± 0.854	0.67	-0.397 ± 0.426	0.408 ± 1.195
PRF-fit source offset from KIC position	0.598 ± 0.923	0.65	-0.417 ± 0.509	0.429 ± 1.303
photometric centroid source offset	0.35 ± 0.20	1.74	-0.20 ± 0.21	-0.29 ± 0.20

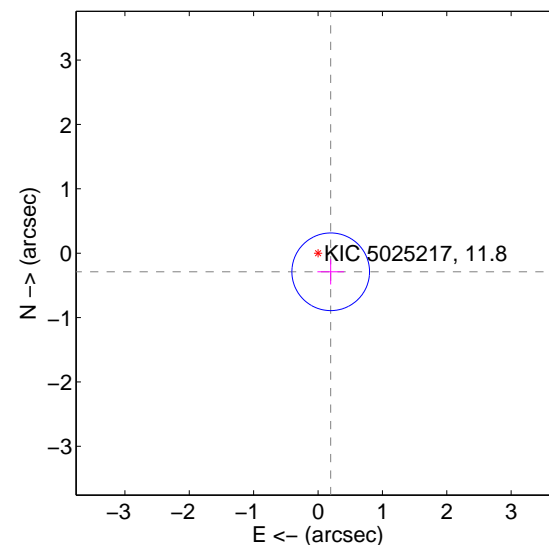
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

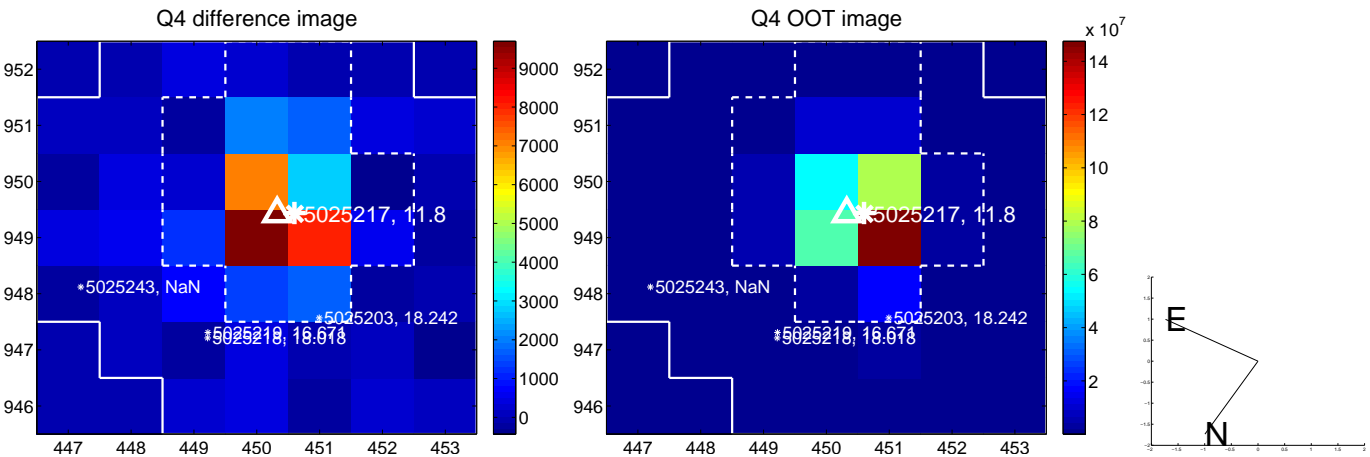
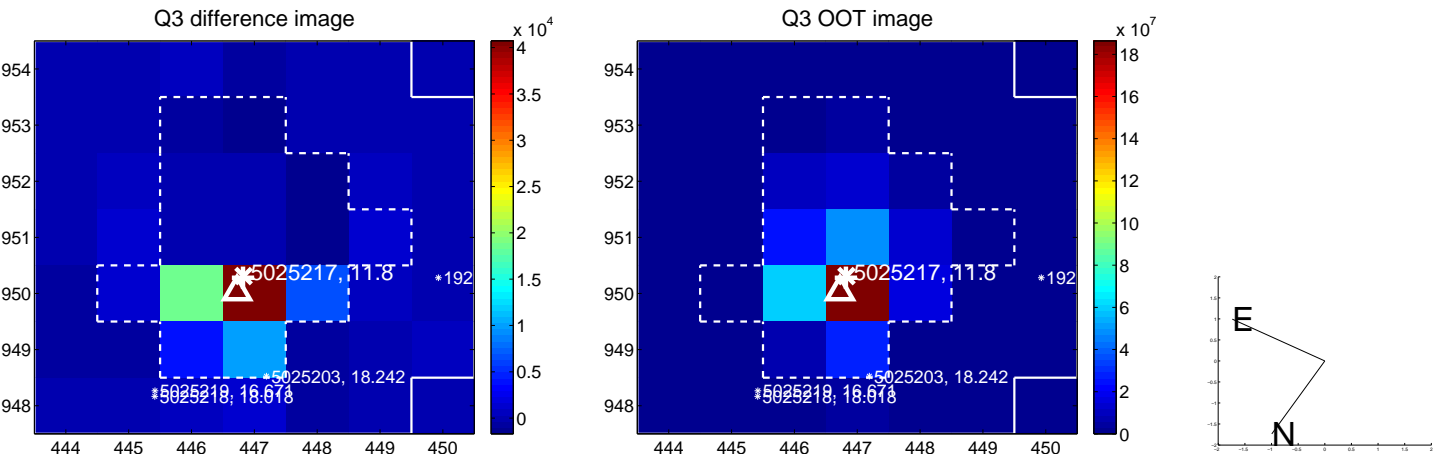
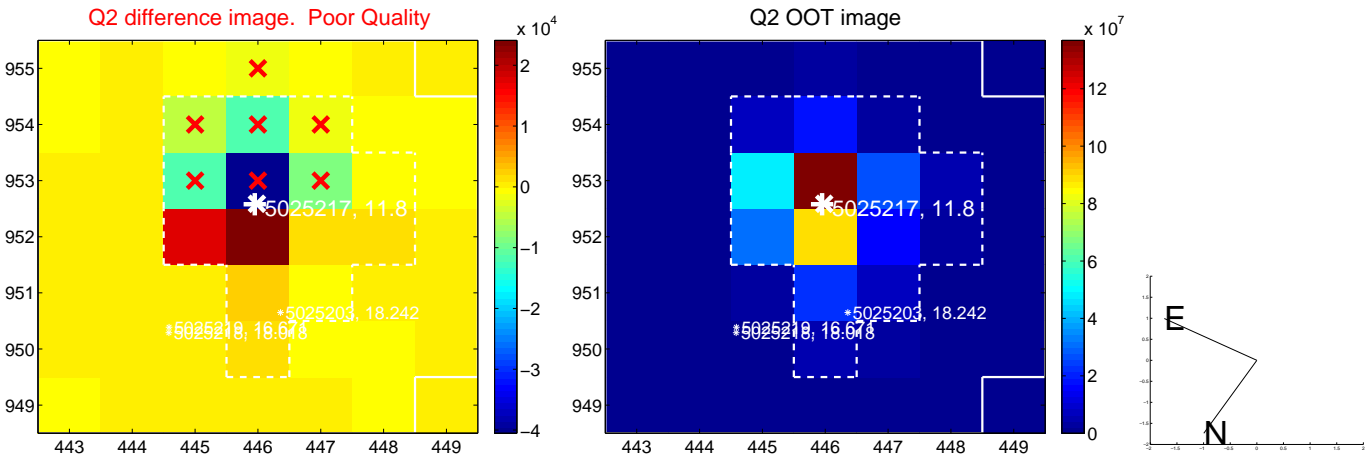
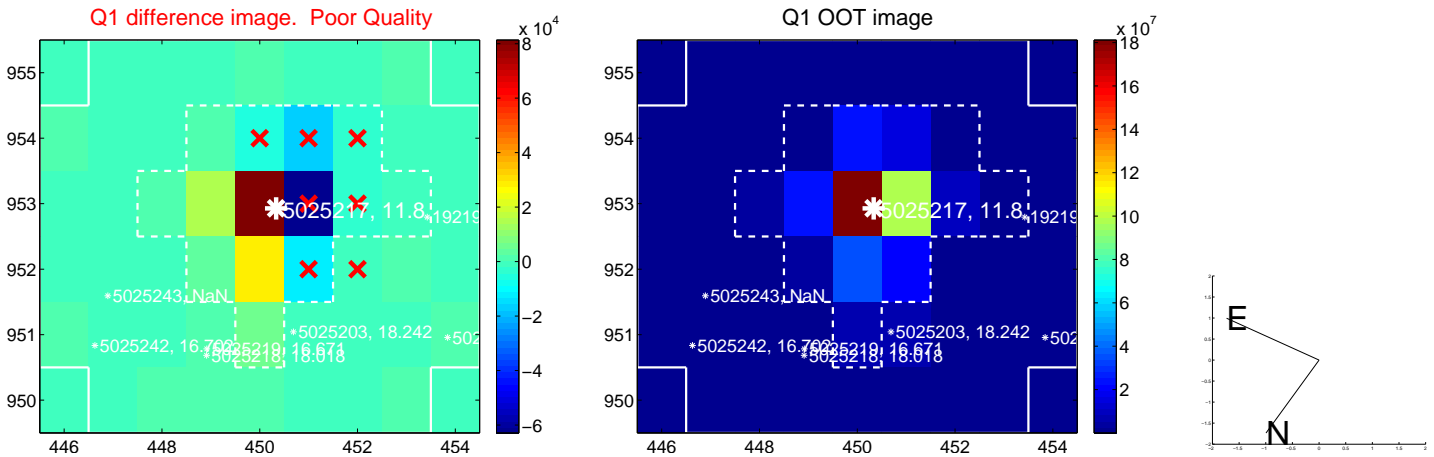


offset from photometric centroids

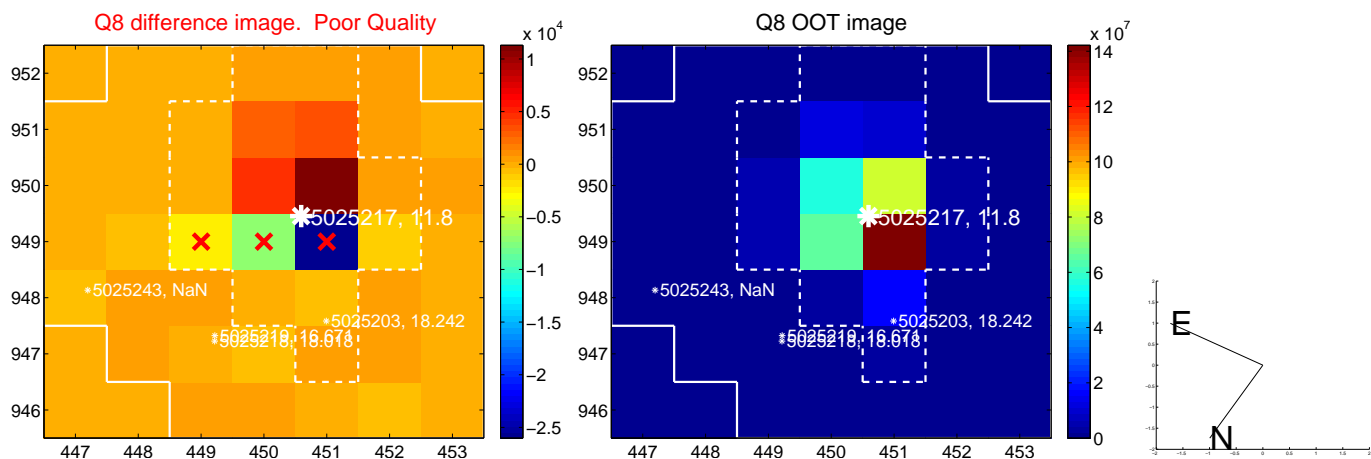
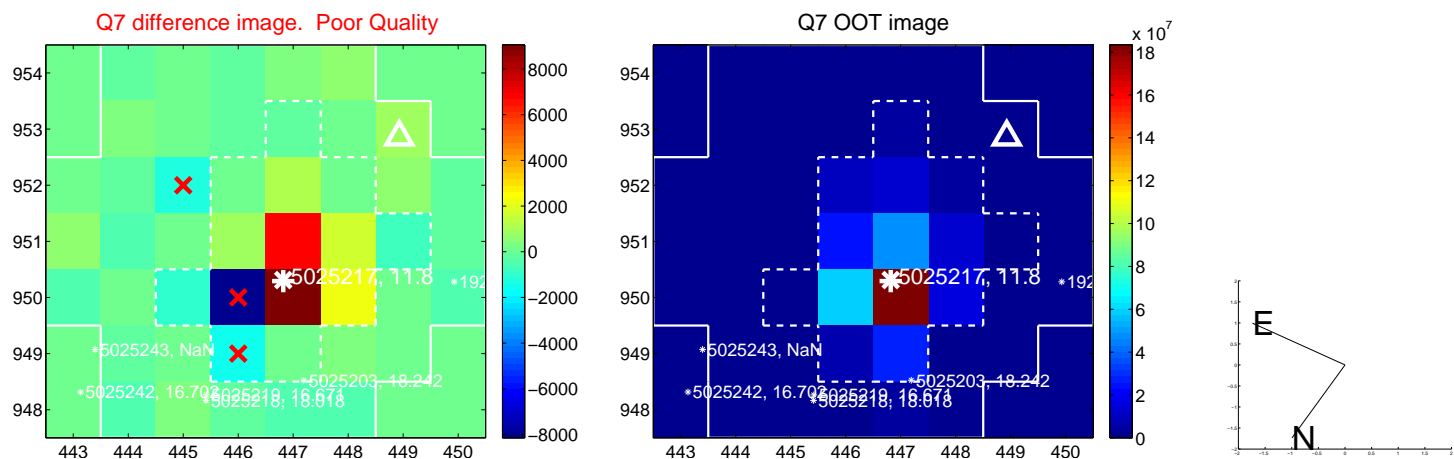
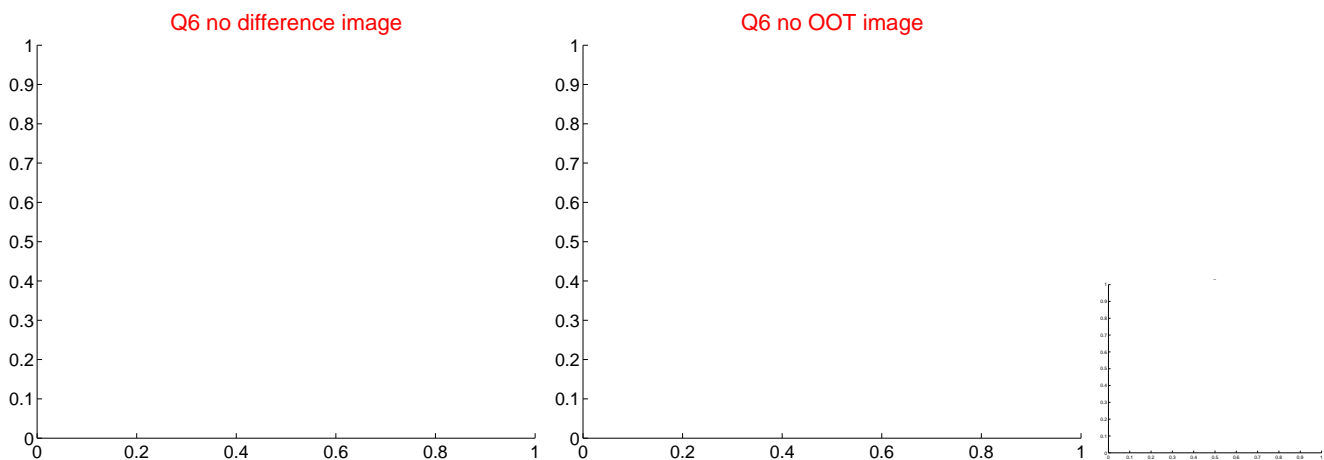
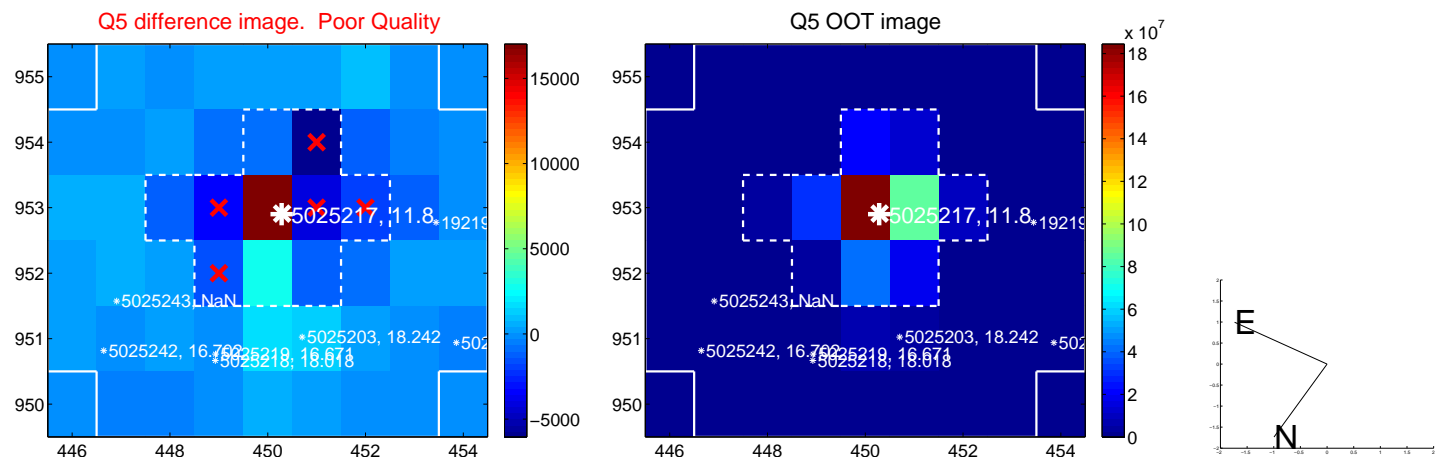


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

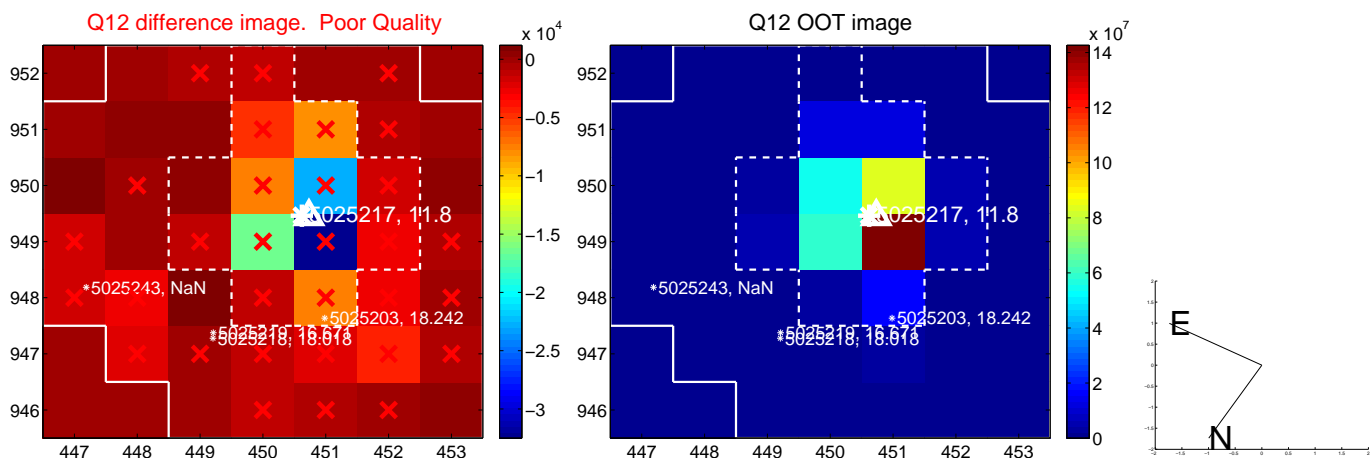
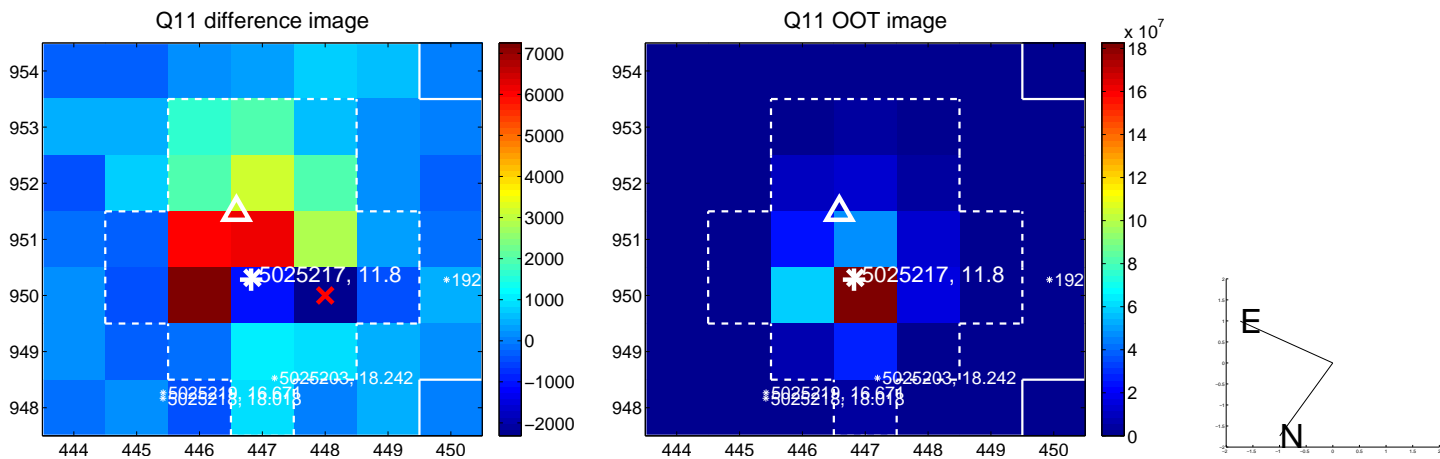
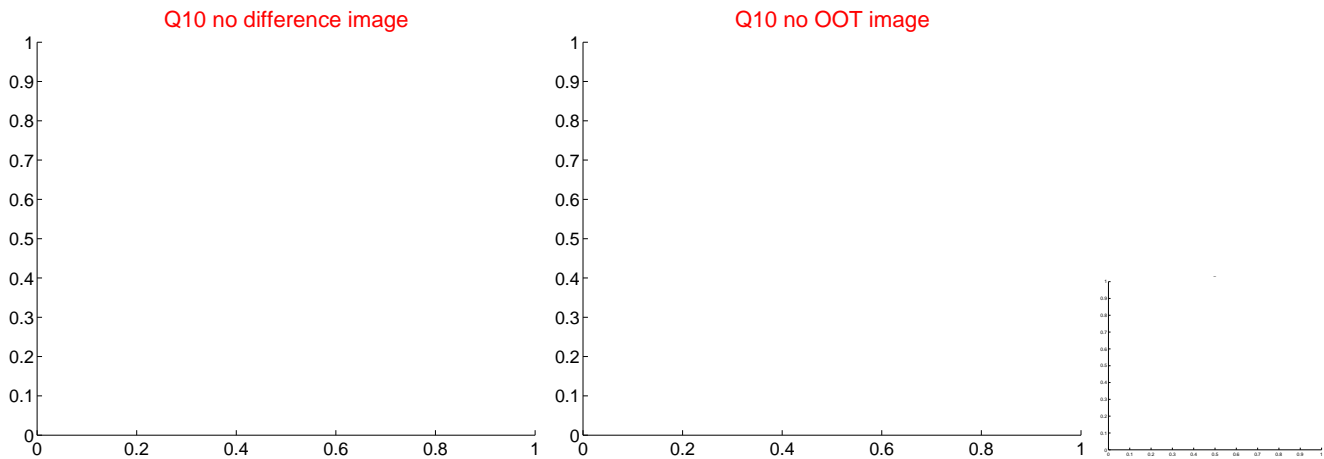
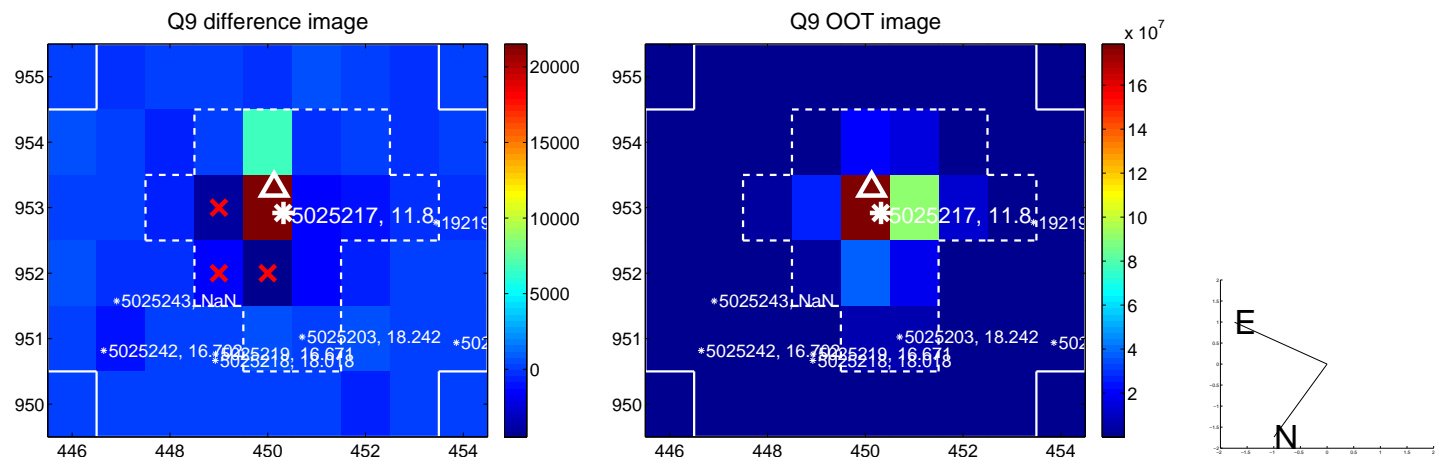
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



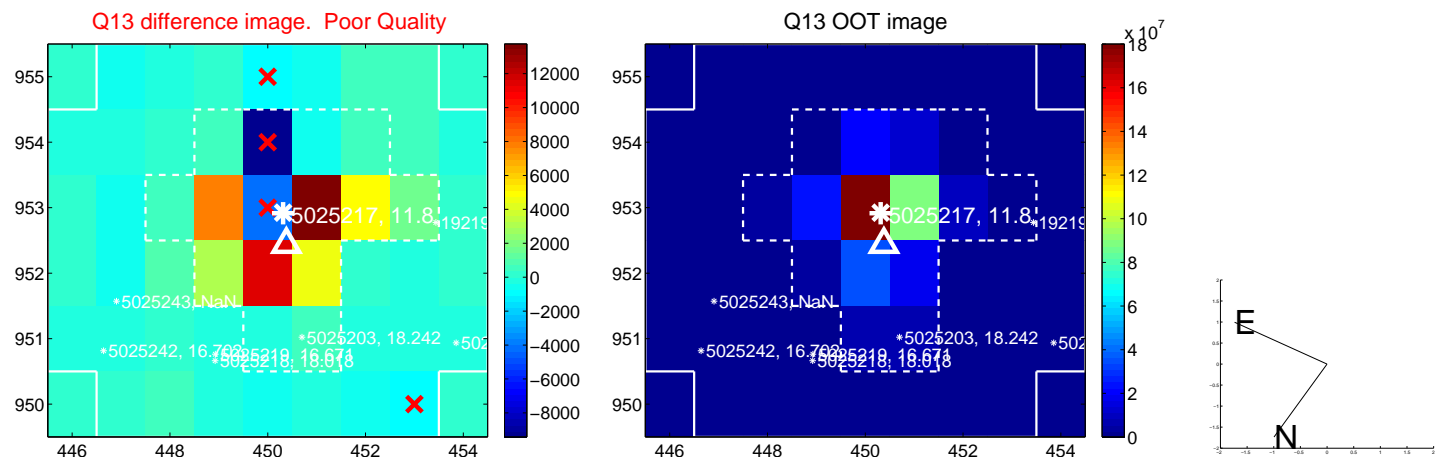
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



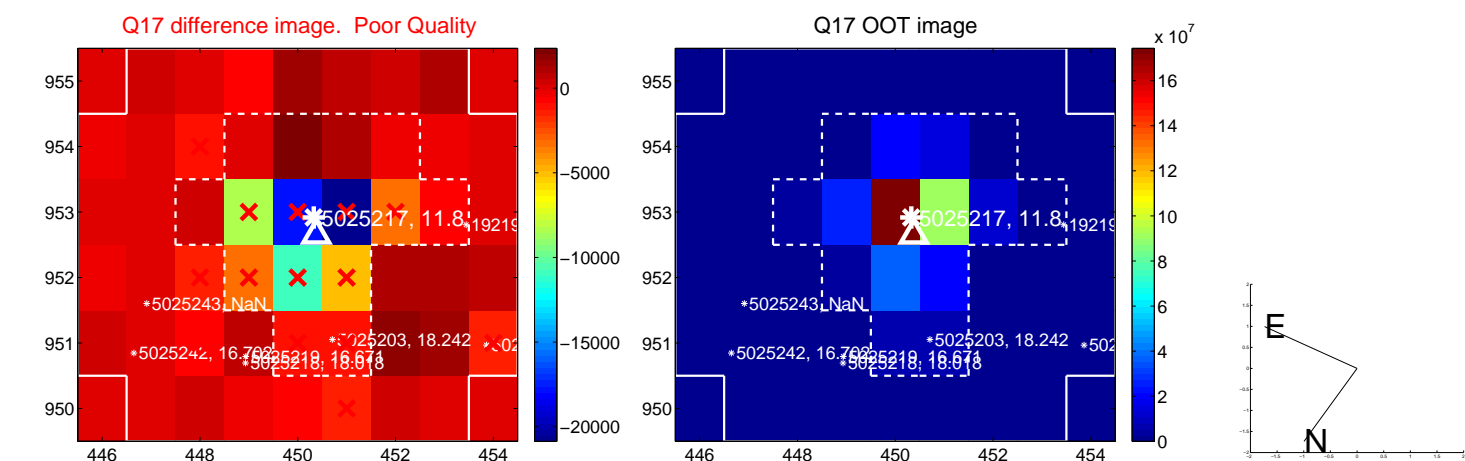
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



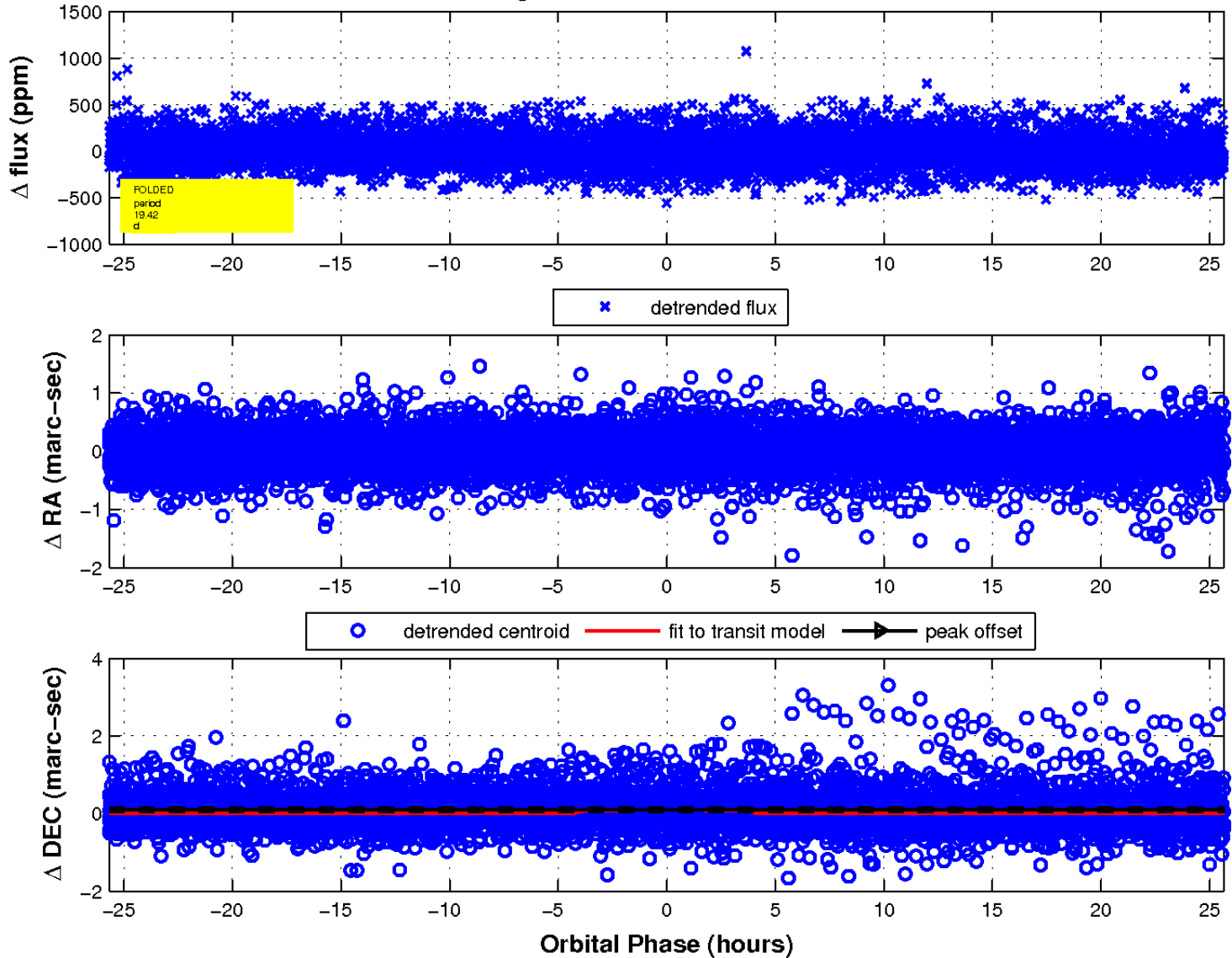
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

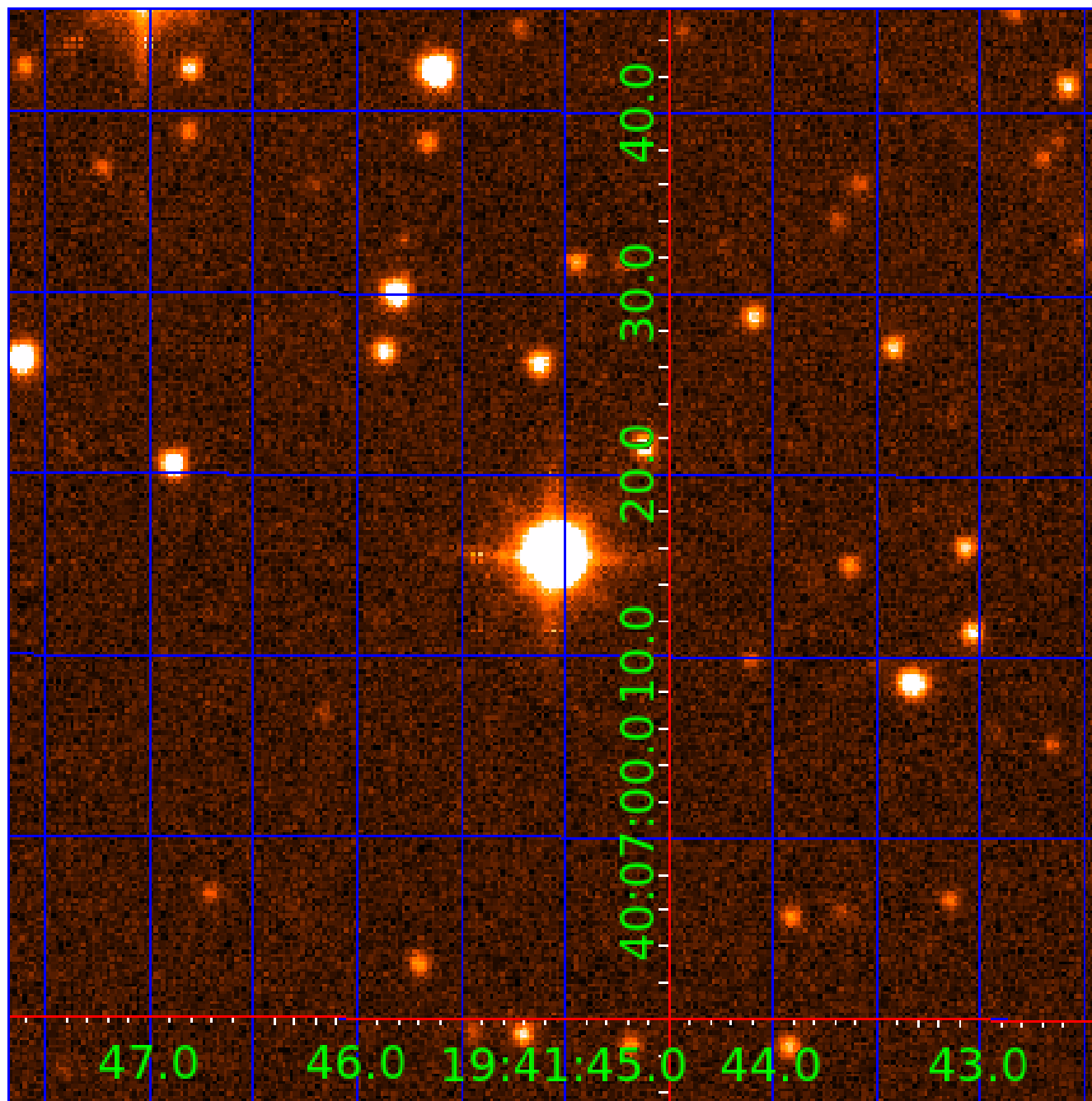


fluxWeightedCentroids, Planet 5 of 9



UKIRT Image

Declination



KIC 005025217

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})
005025217-01	OBS	6496.01	1.787604	132.417372	26.4	6.928	10.2	7.7	7.34	6286	4.55	53036.26
005025217-02	OBS	No	1.787610	131.532827	43.6	5.860	10.5	11.1	7.34	6286	7.98	53036.05
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005025217-06	OBS	No	86.793263	178.302201	475.1	4.020	8.5	8.4	7.34	6286	18.10	299.42
005025217-07	OBS	No	10.595765	139.960544	215.0	1.911	8.0	7.8	7.34	6286	12.51	4944.15
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005025217-09	OBS	No	12.084867	134.855286	99.8	3.500	7.9	-1.0	7.34	6286	7.37	4149.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005025217-01	OBS	FP	0.00	1	0	0	0	LPP_DV
005025217-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005025217-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005025217-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_NOFITS

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

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

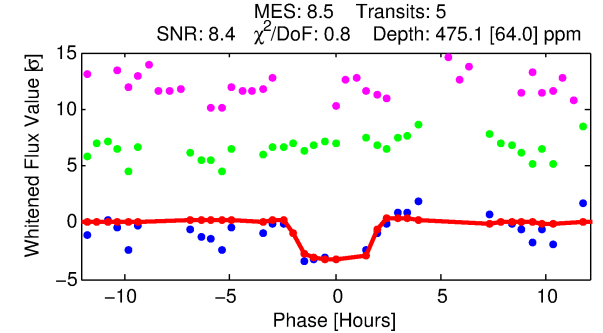
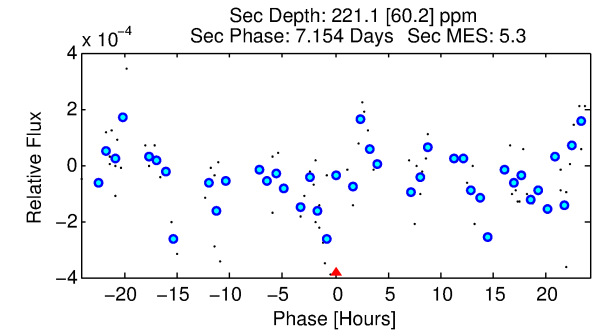
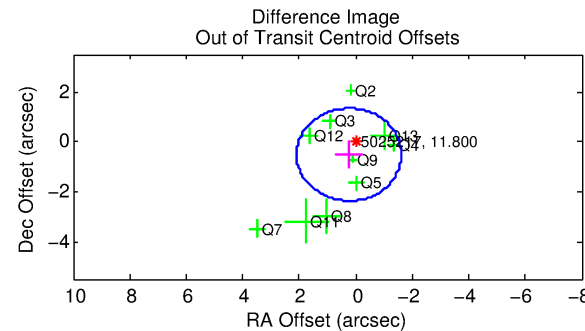
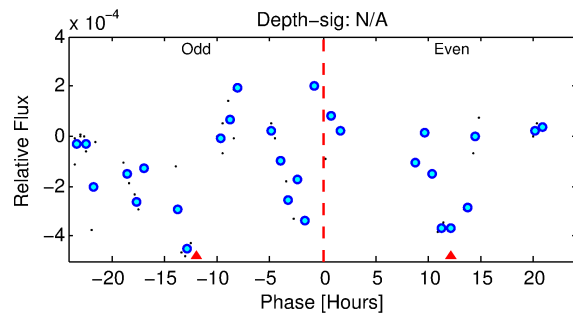
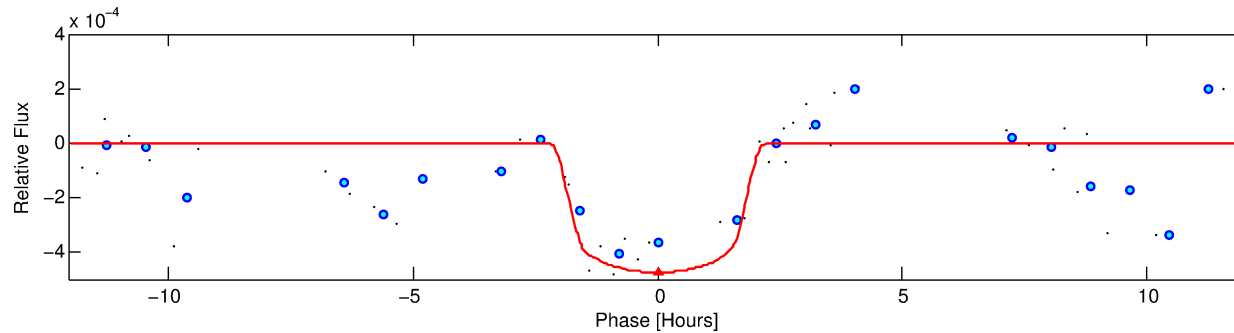
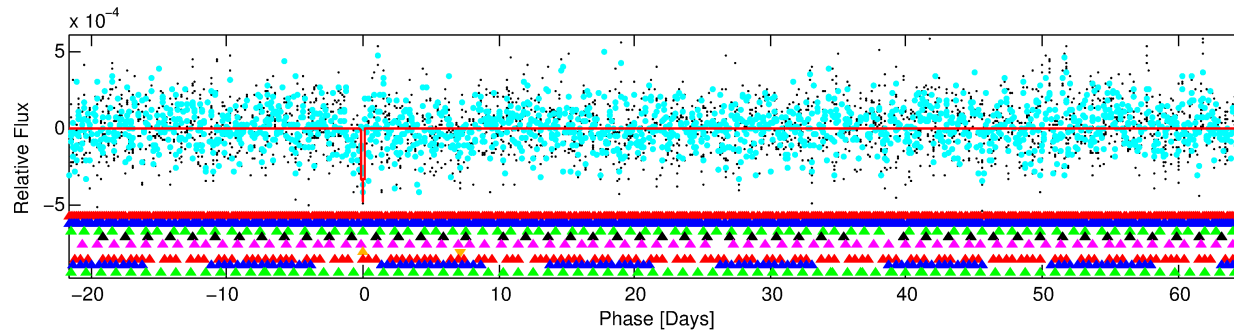
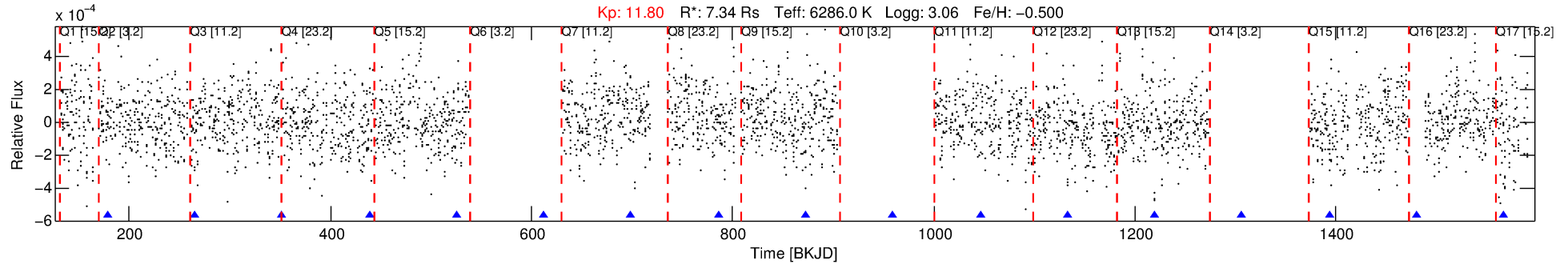
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005025217-06

No Significant Match Found

DV One-Page Summary

KIC: 5025217 Candidate: 6 of 9 Period: 86.793 d
KOI: K06496 Corr: No Ephemeris Match



DV Fit Results:

Period = 86.79326 [0.00123] d
Epoch = 178.3022 [0.0071] BKJD
Rp/R* = 0.0226 [0.0158]
a/R* = 94.01 [364.13]
b = 0.85 [1.30]
Seff = 299.42 [225.15]
Teq = 1061 [199] K
Rp = 18.10 [15.40] Re
a = 0.5018 [0.2336] AU
Ag = 93.55 [150.12] [0.62σ]
Teffp = 5100 [1821] K [2.21σ]

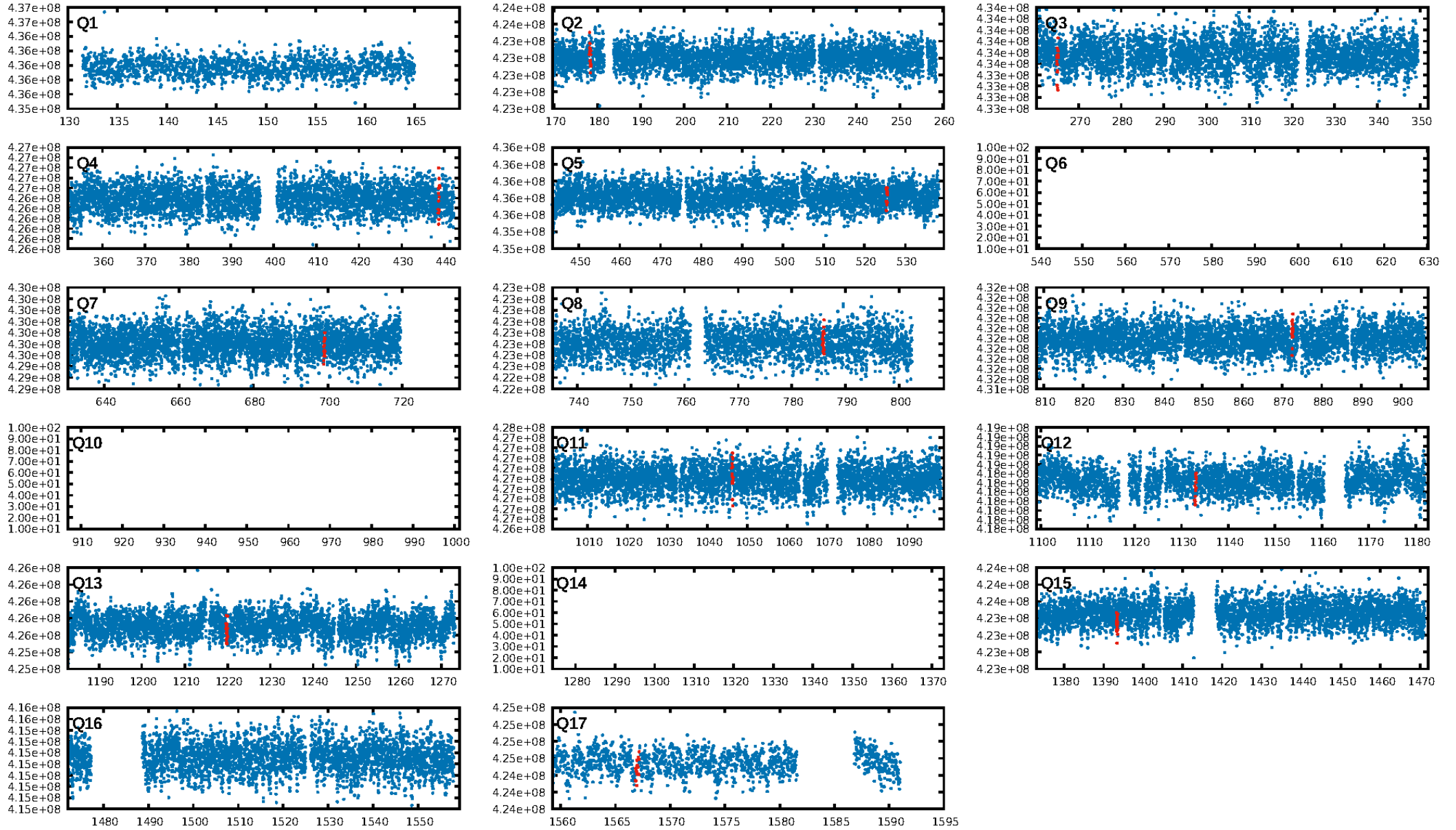
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [203.08σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 95.6%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -7.278
Centroid-sig: N/A
Centroid-so: 0.145 arcsec [0.66σ]
OotOffset-rm: 0.573 arcsec [0.93σ]
KicOffset-rm: 0.578 arcsec [0.92σ]
OotOffset-st: 1/3/3/3 [10]
KicOffset-st: 1/3/3/3 [10]
DiffImageQuality-fgm: 0.60 [6/10]
DiffImageOverlap-fno: 0.00 [0/11]

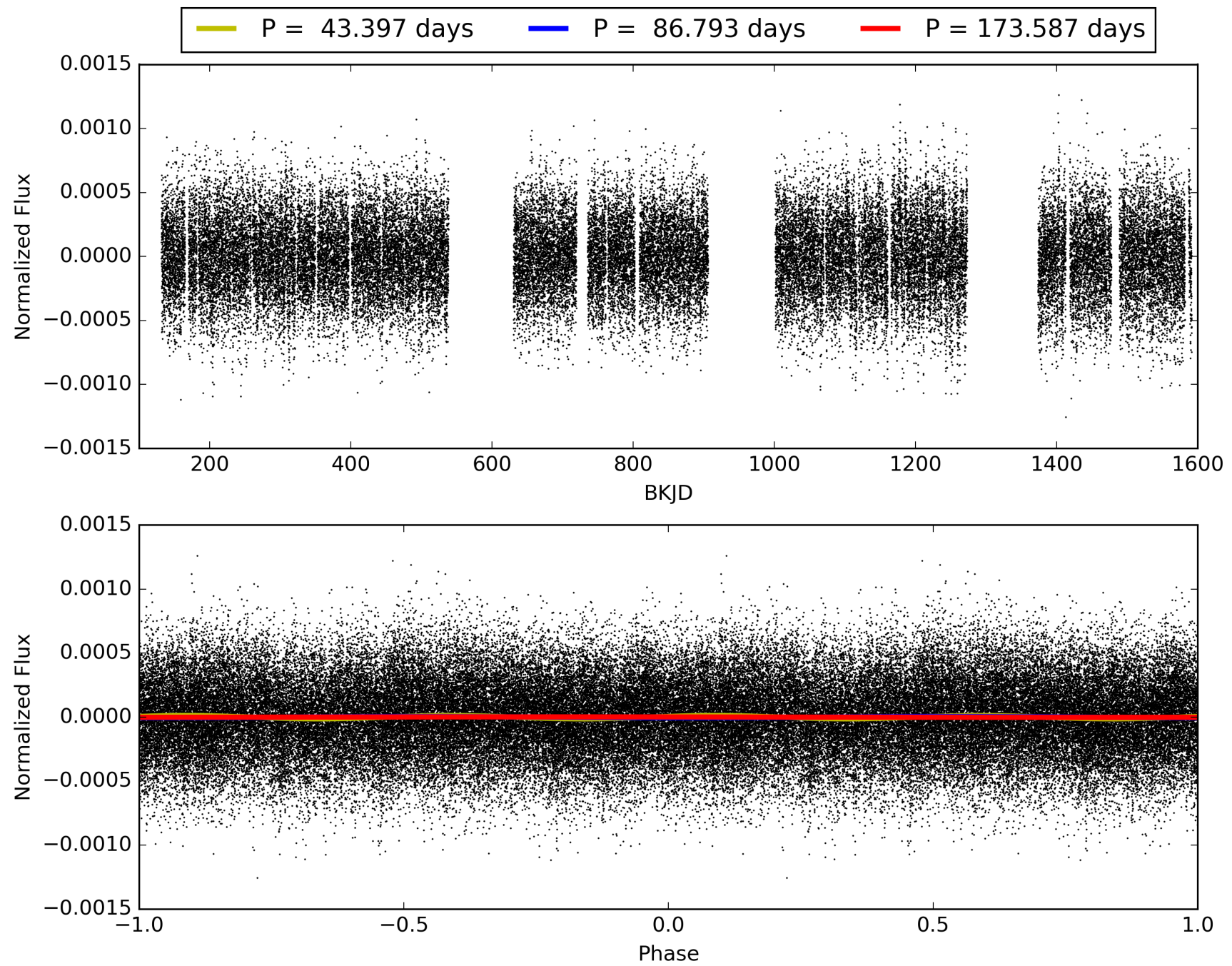
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 06:18:44 Z

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

TCE 005025217-06, PDC Light Curves

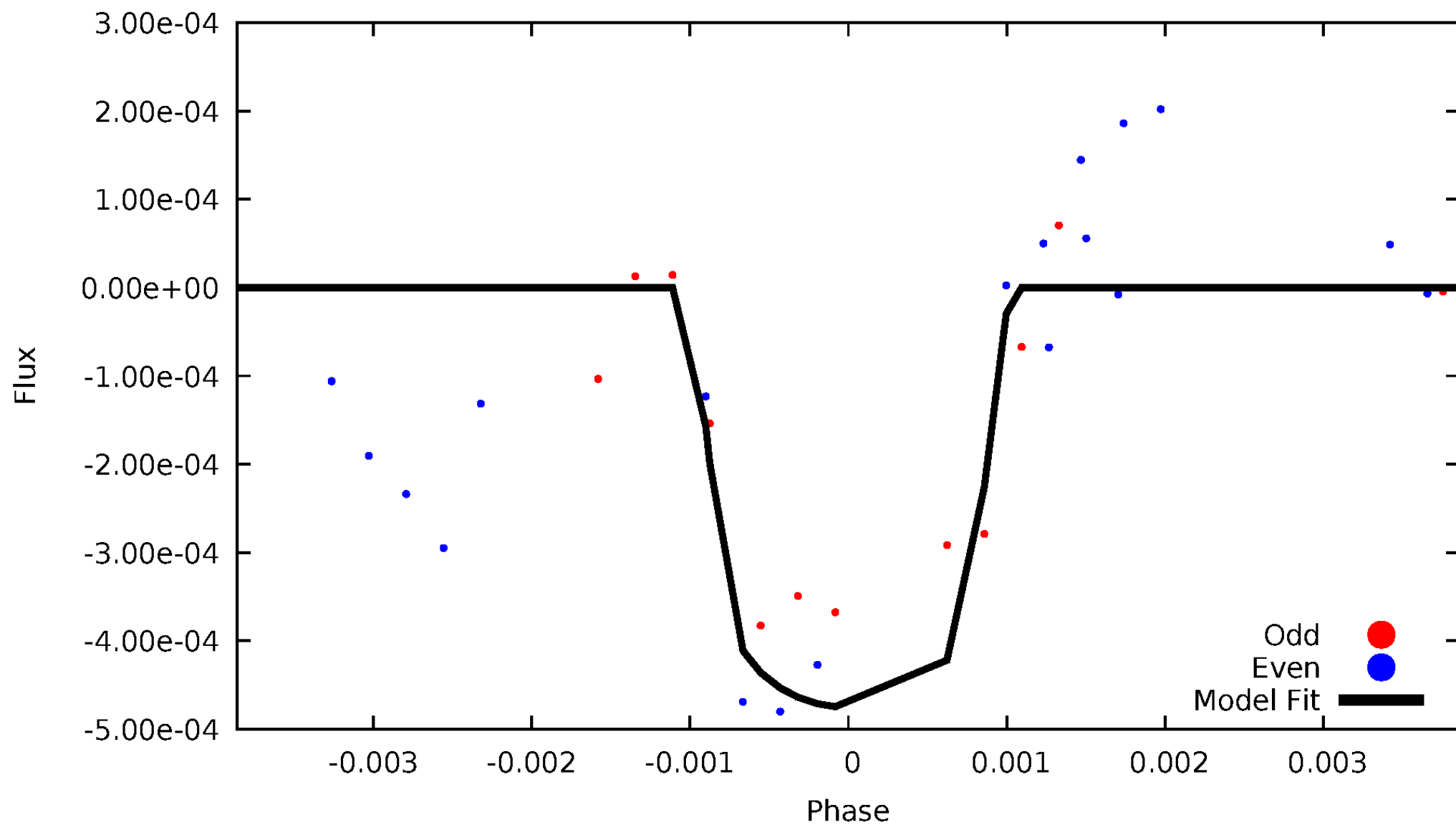


TCE 005025217-06



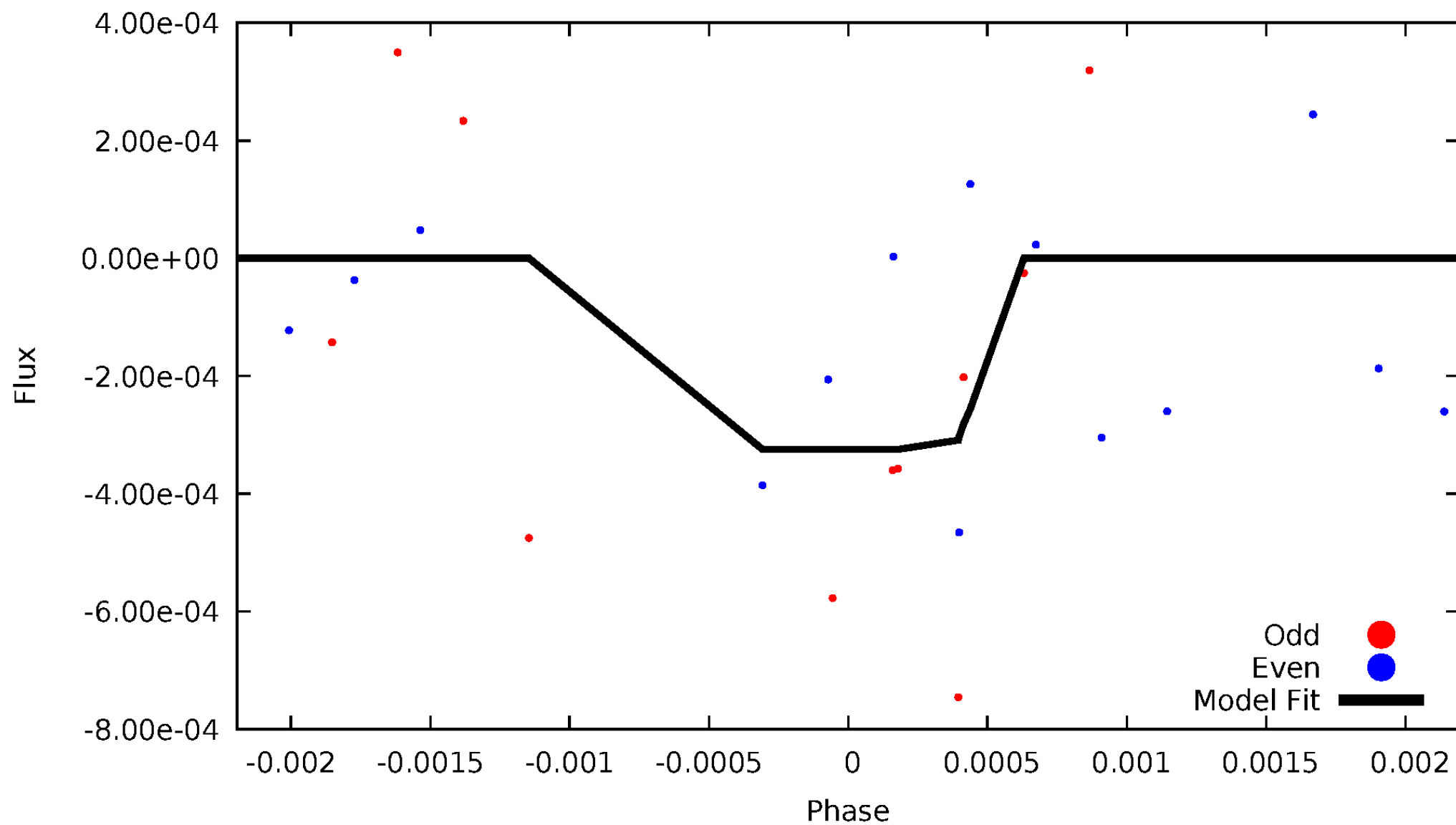
DV Odd/Even

TCE 005025217-06



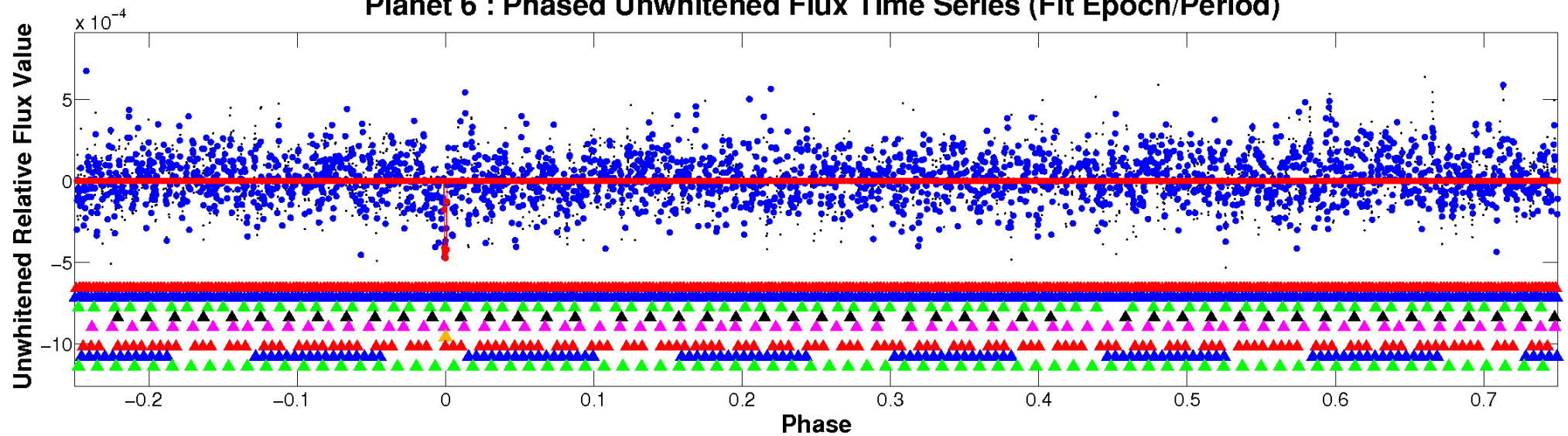
ALT Odd/Even

TCE 005025217-06

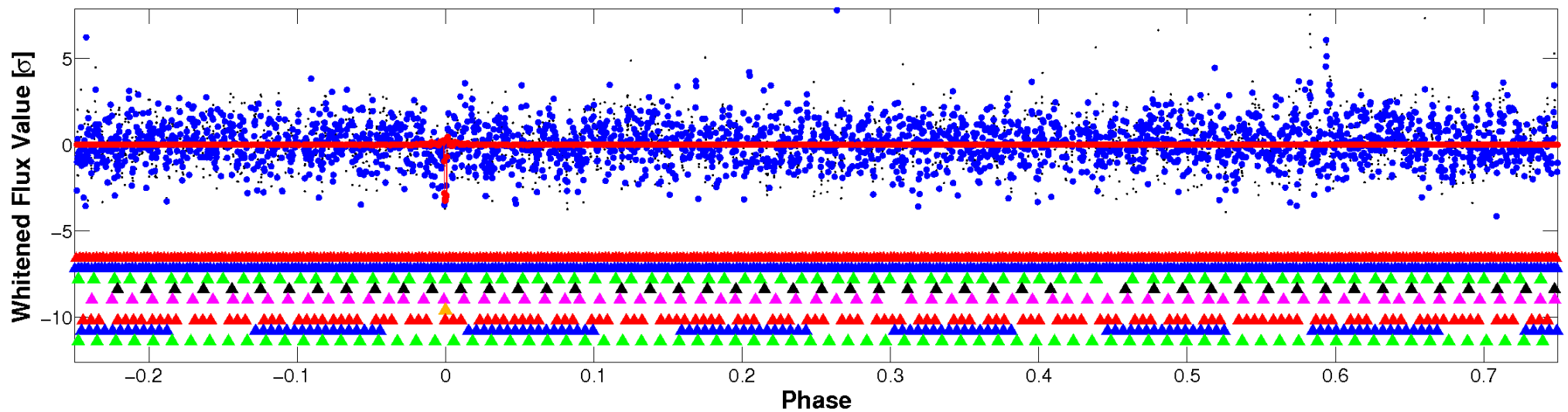


Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

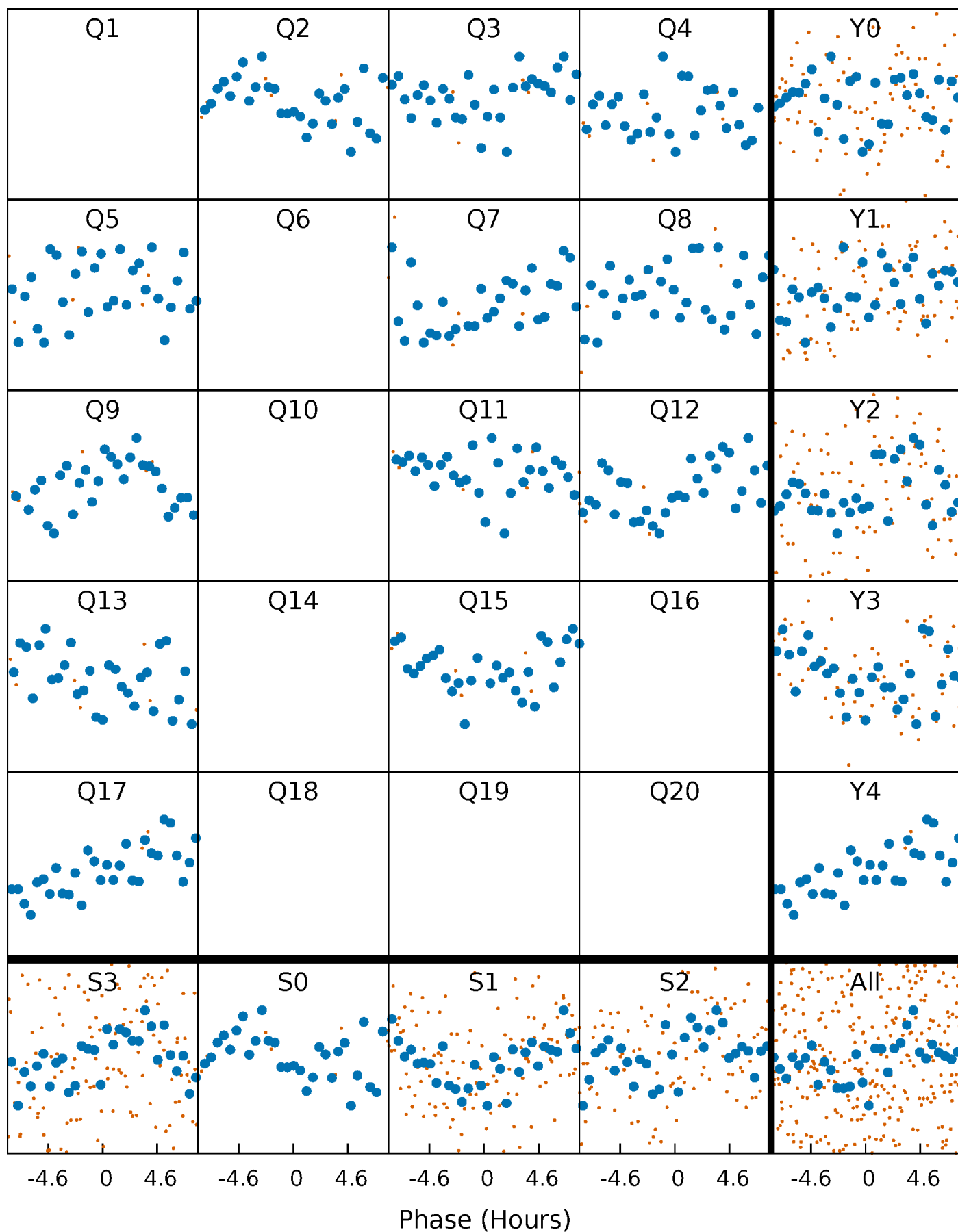


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



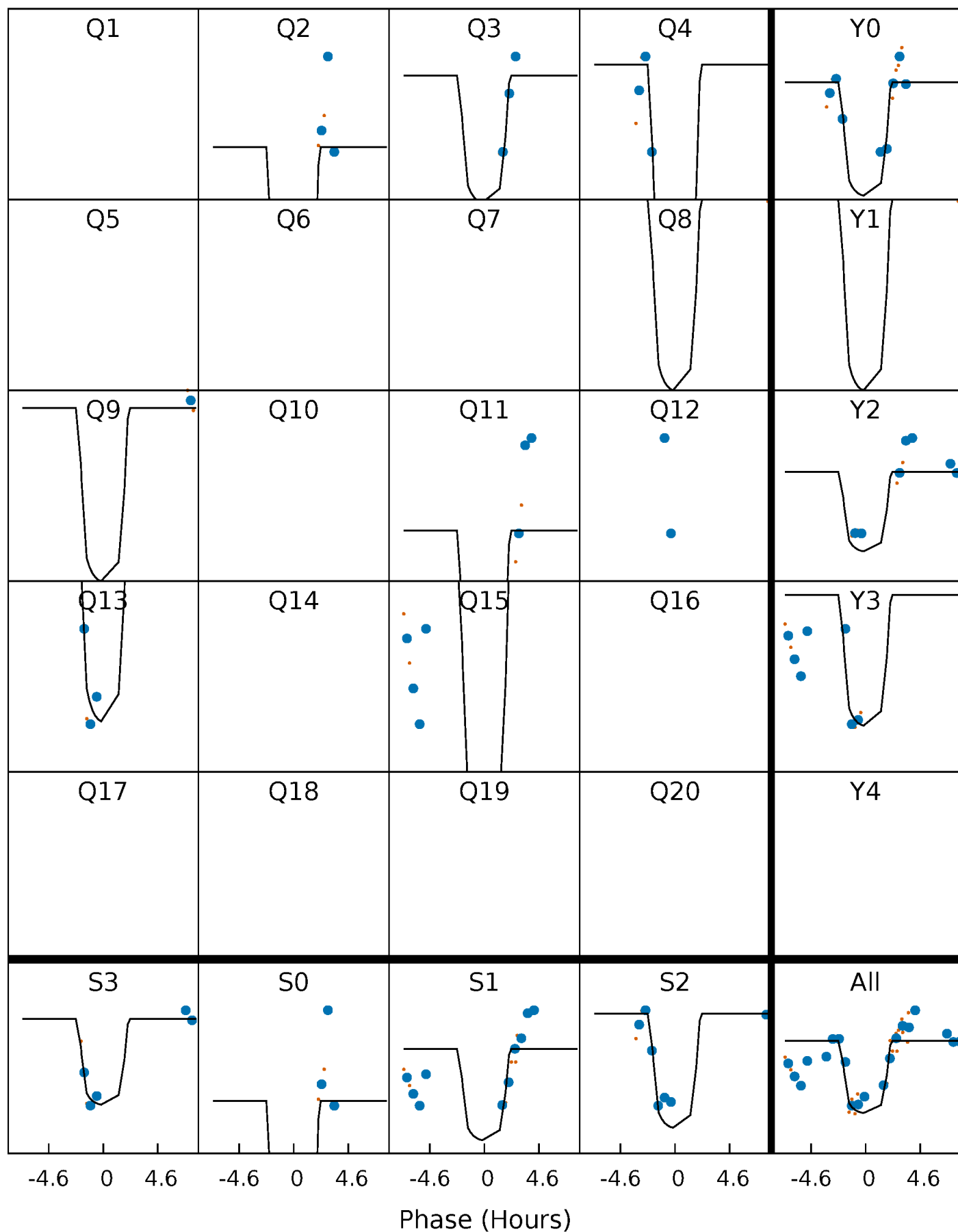
PDC Quarter-Phased Transit Curves

TCE 005025217-06 P= 86.793263 Days $T_0=178.302201$ (BKJD)



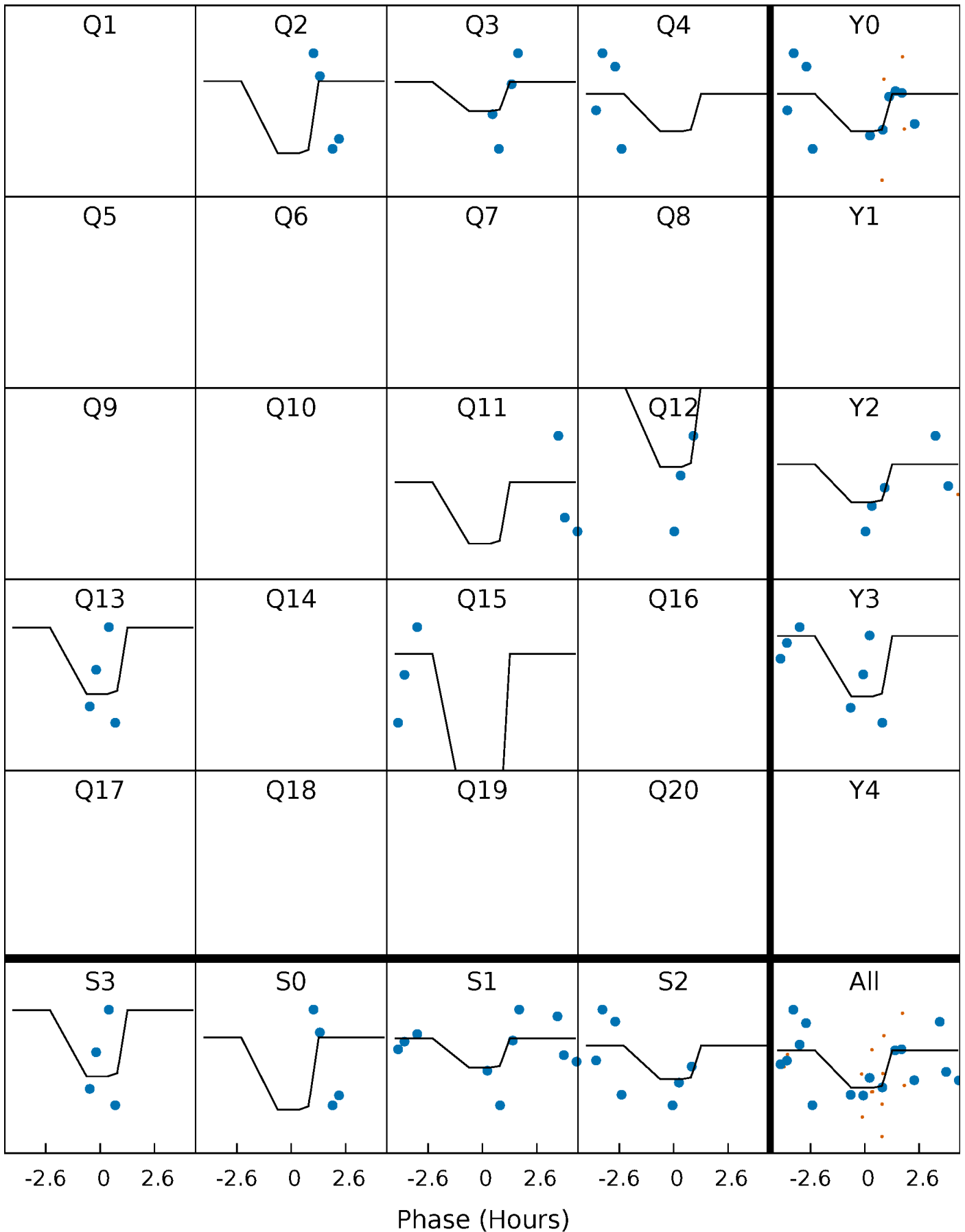
DV Quarter-Phased Transit Curves

TCE 005025217-06 P= 86.793263 Days $T_0=178.302201$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

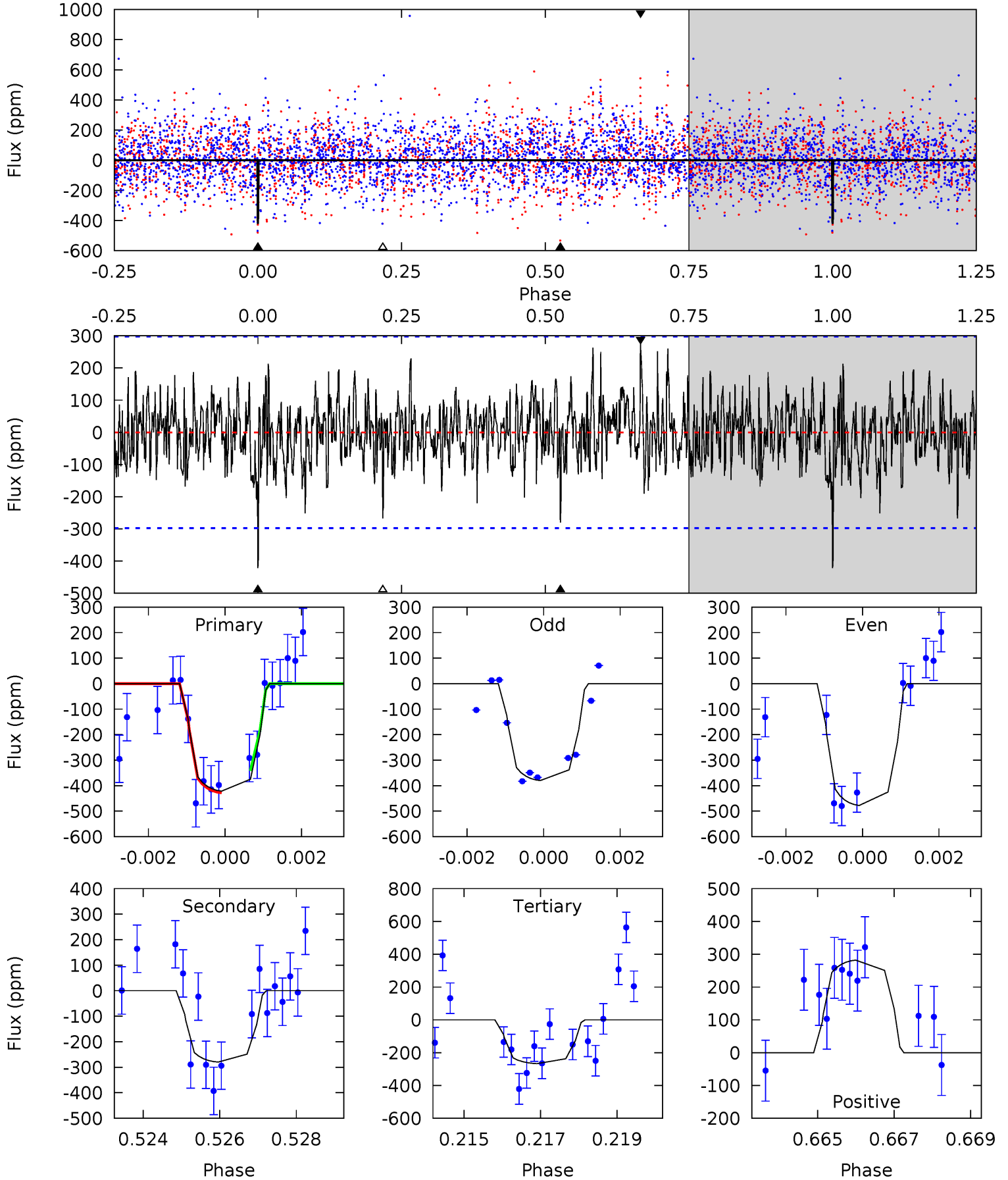
TCE 005025217-06 P= 86.784923 Days $T_0=178.350808$ (BKJD)



DV Model-Shift Uniqueness Test

005025217-06, P = 86.793263 Days, E = 91.508938 Days

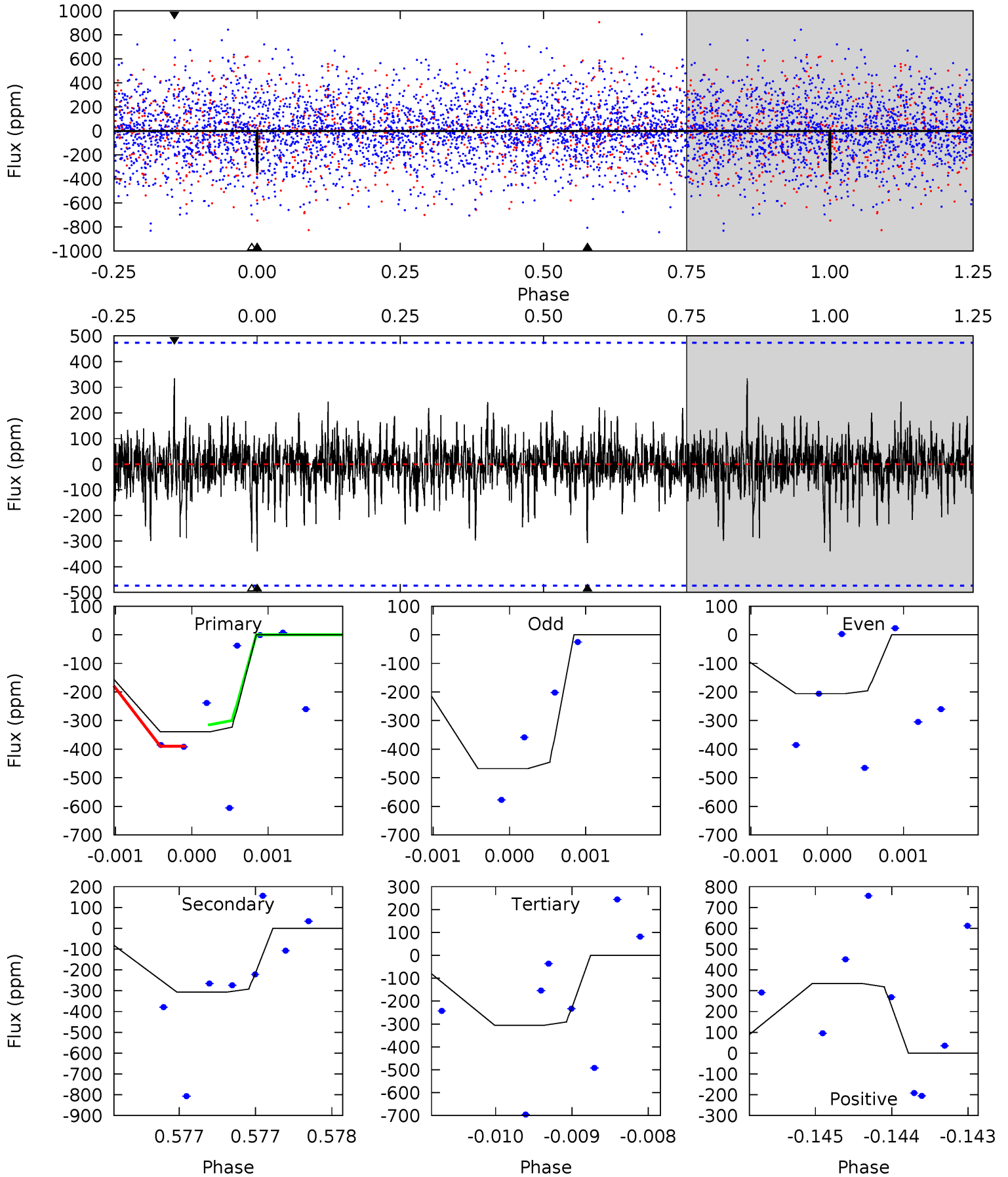
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.56	5.02	4.79	5.06	5.34	3.11	1.44	2.77	2.50	0.23	-0.04	0.85	1.08	0.40	0.68



Alt Model-Shift Uniqueness Test

005025217-06, P = 86.784923 Days, E = 91.565885 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.94	3.57	3.55	3.89	5.50	3.37	0.86	0.39	0.05	0.02	-0.32	1.47	1.02	0.50	0.38



Stellar Parameters For KIC 005025217

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6286^{+157}_{-188}	$3.056^{+0.435}_{-0.145}$	$-0.500^{+0.350}_{-0.300}$	$7.342^{+1.923}_{-3.572}$	$2.233^{+0.311}_{-0.673}$	$0.008^{+0.034}_{-0.003}$
	+2%/-3%	+14%/-5%	+70%/-60%	+26%/-49%	+14%/-30%	+425%/-42%
Source	PHO1	FLK73	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 005025217-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-280 ± 56	$16.86^{+12.52}_{-9.62}$	1452^{+110}_{-179}	5311^{+3103}_{-997}	136^{+589}_{-92}
Alt.	-307 ± 86	$14.51^{+12.87}_{-8.71}$	1457^{+112}_{-159}	5775^{+4256}_{-1253}	181^{+1049}_{-128}

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

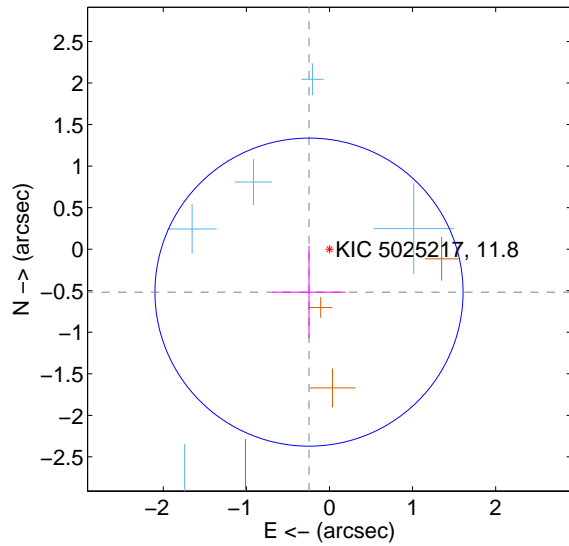
Supplemental centroid analysis for 005025217-06. **Kepler magnitude: 11.80.** Transit SNR 8.39

There are 6 quarters with good PRF difference image offsets

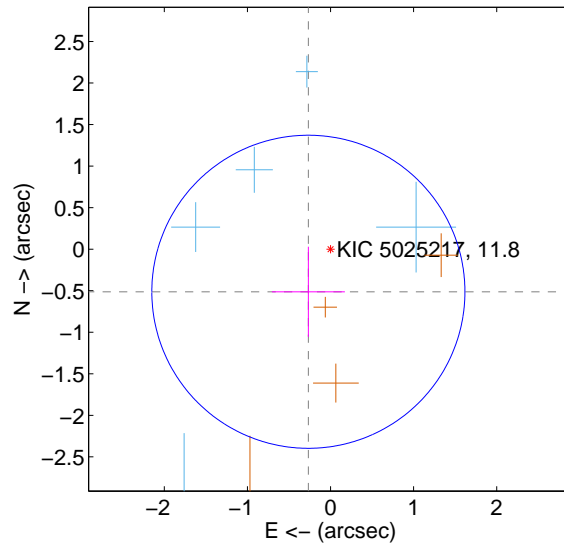
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.573 ± 0.618	0.93	0.246 ± 0.440	-0.517 ± 0.555
PRF-fit source offset from KIC position	0.578 ± 0.628	0.92	0.267 ± 0.439	-0.513 ± 0.542
photometric centroid source offset	0.15 ± 0.22	0.66	-0.04 ± 0.25	0.14 ± 0.22

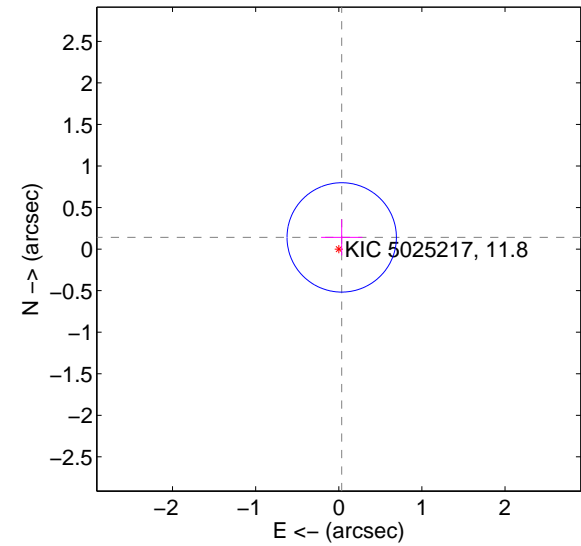
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

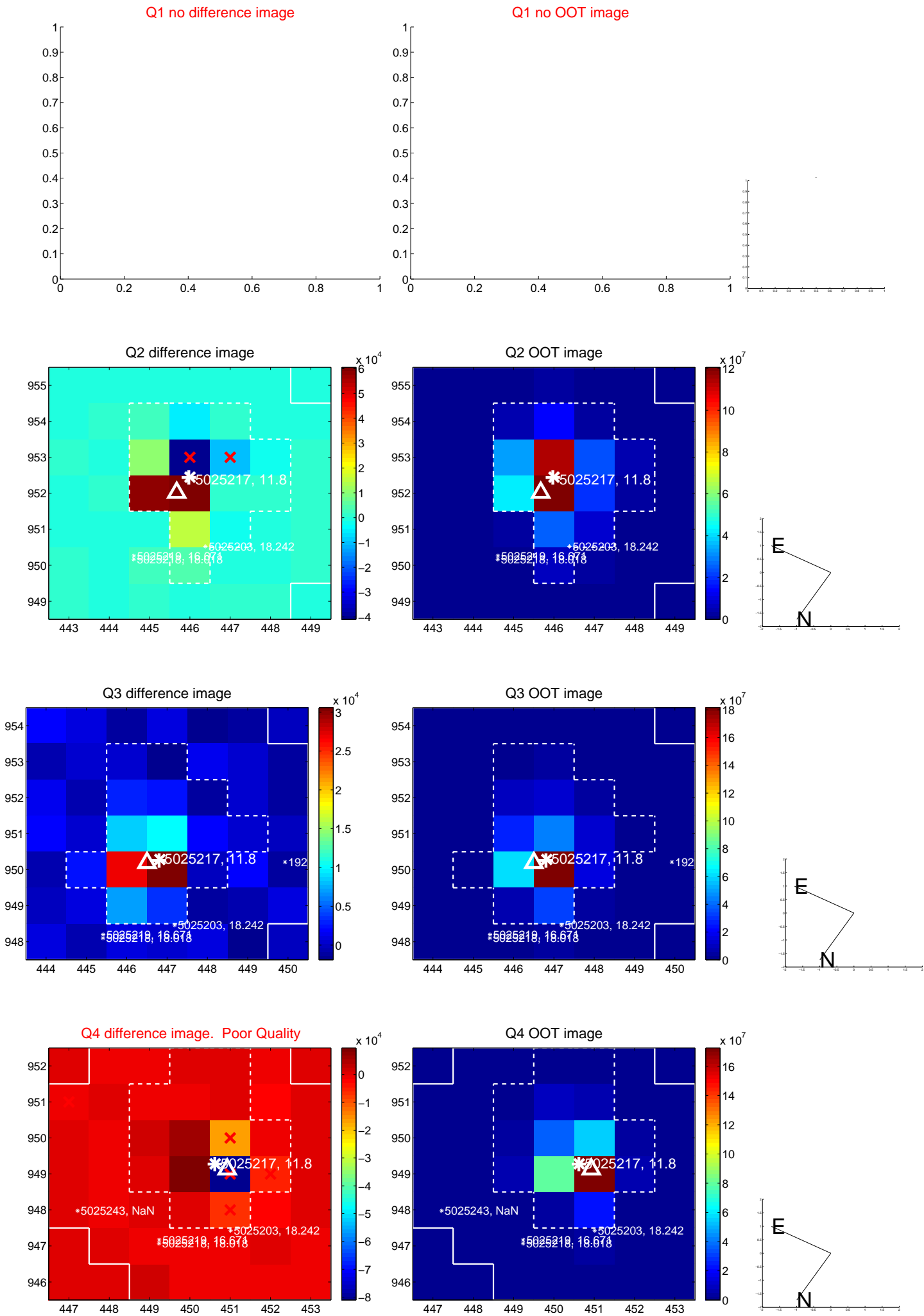


offset from photometric centroids

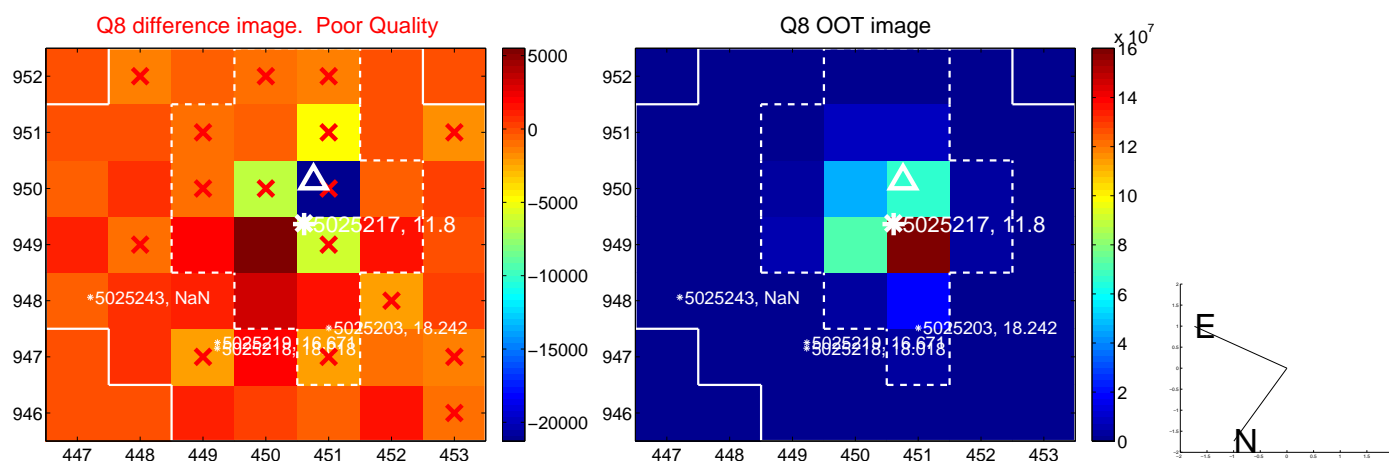
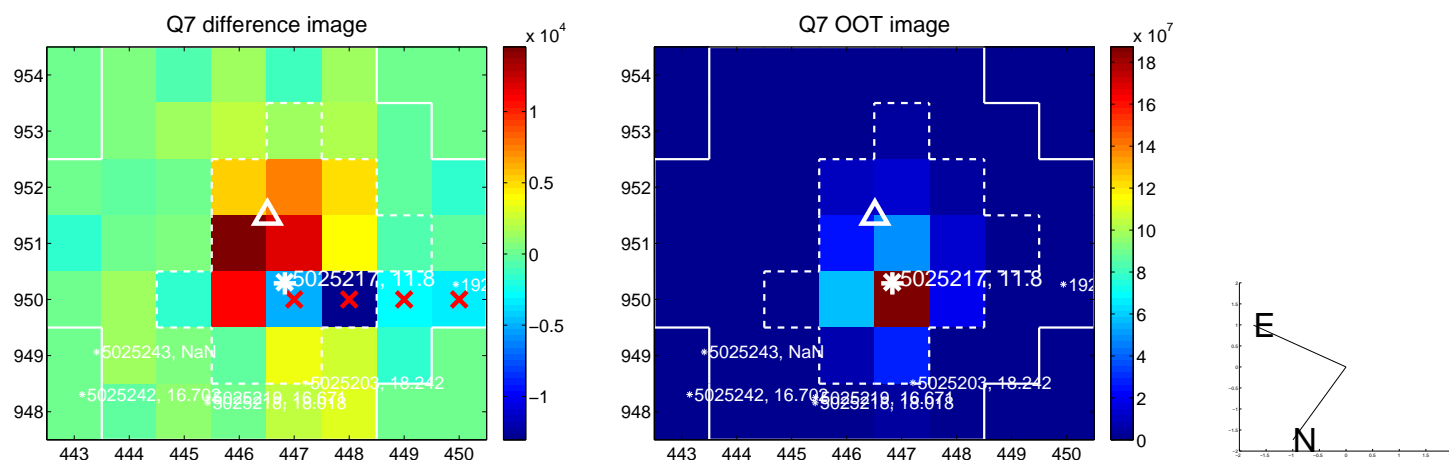
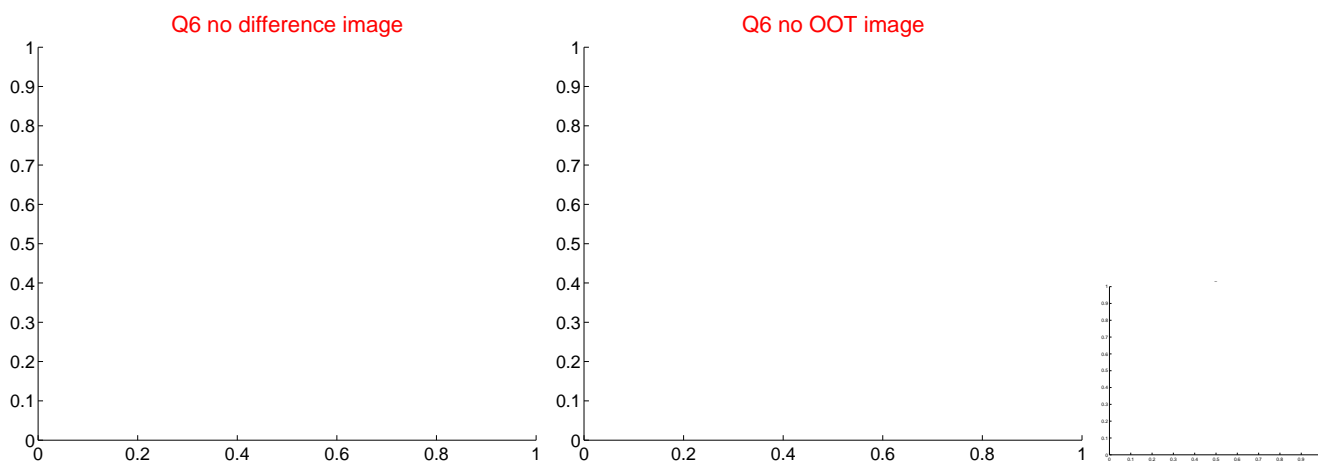
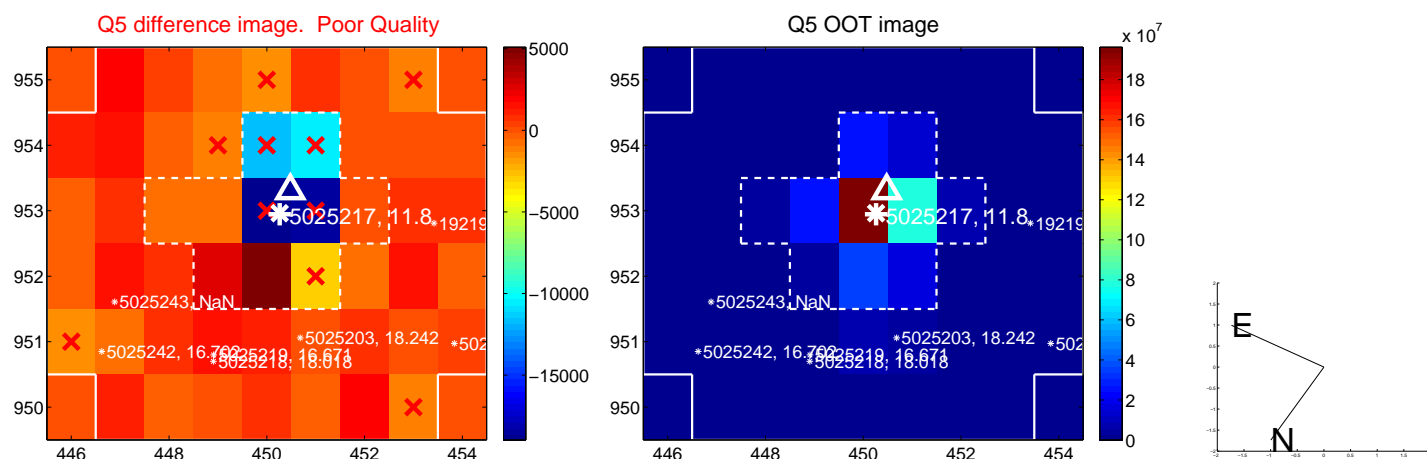


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

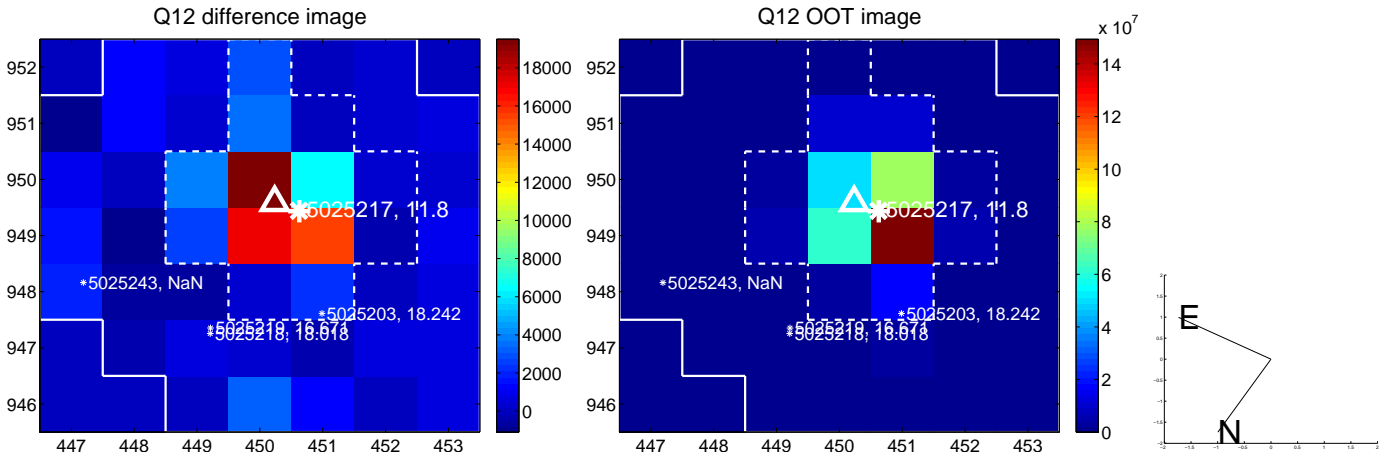
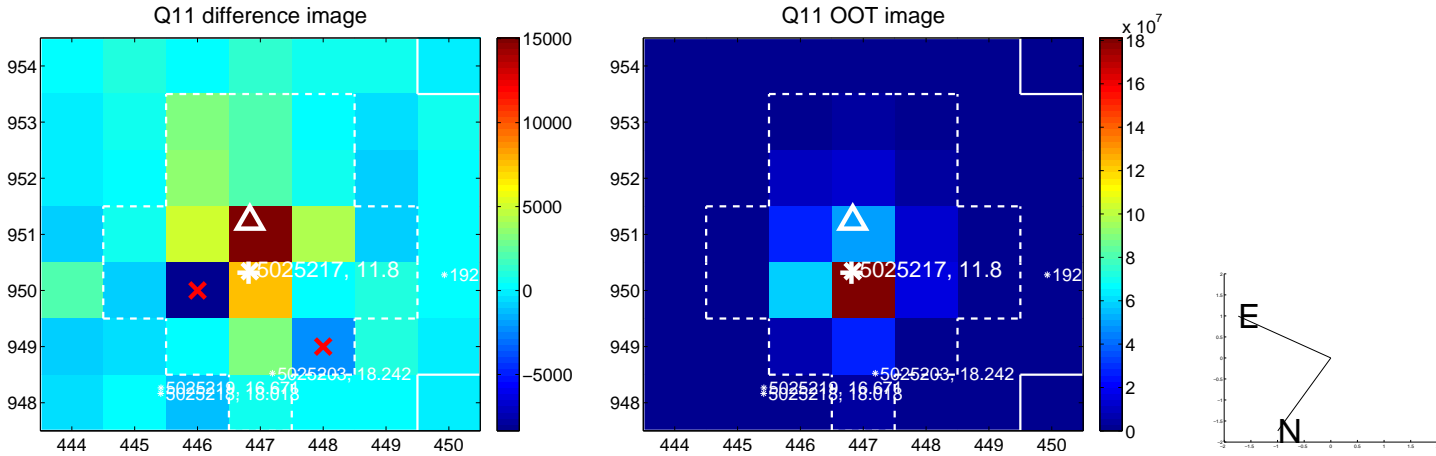
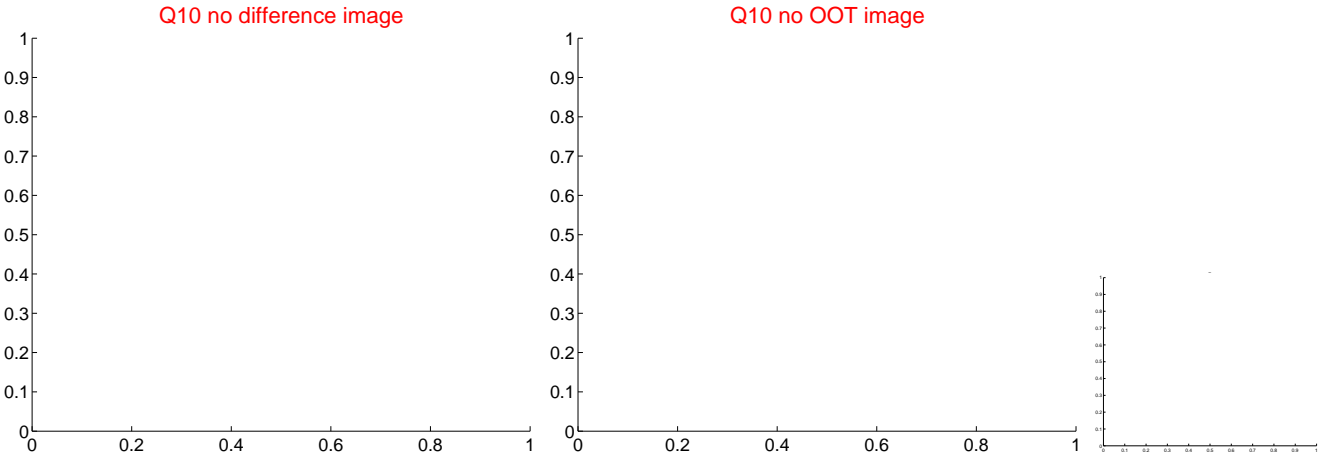
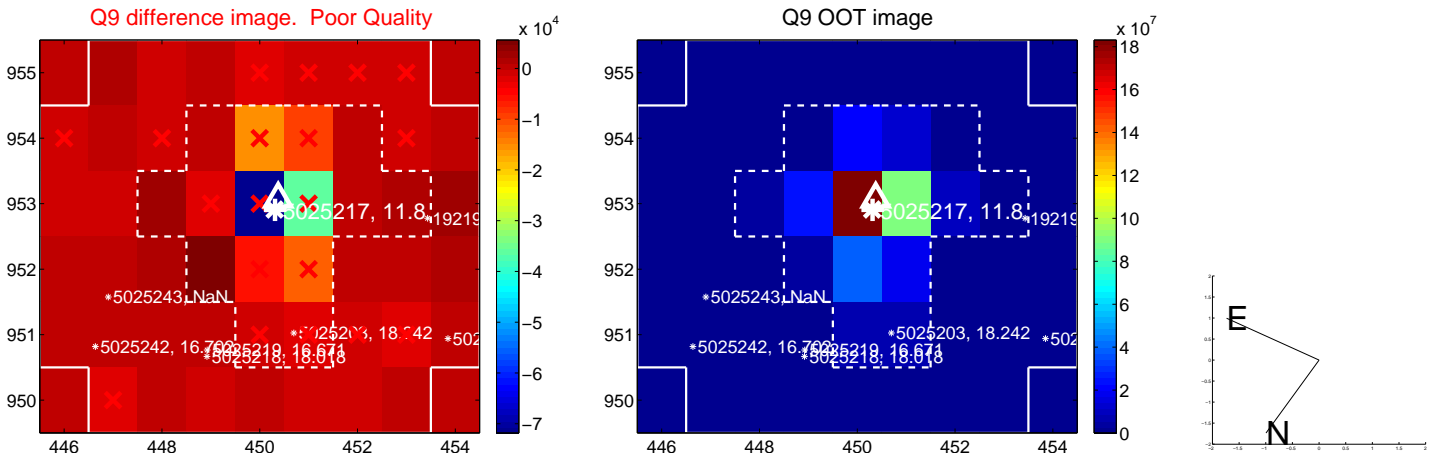
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



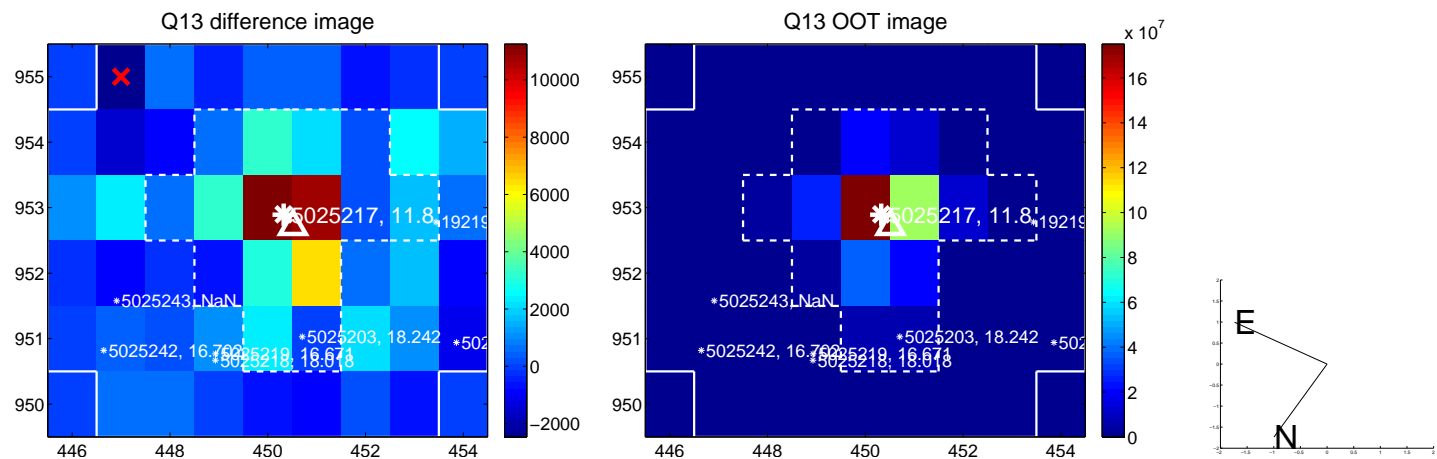
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



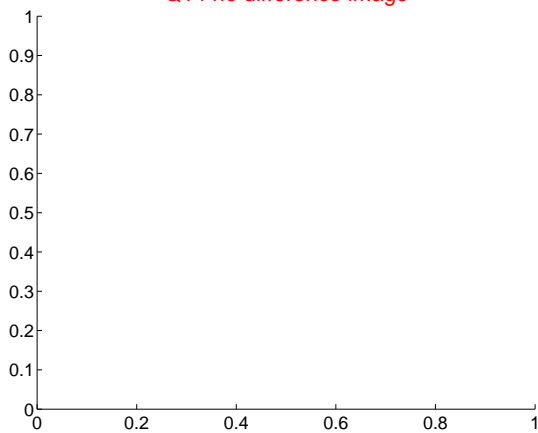
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



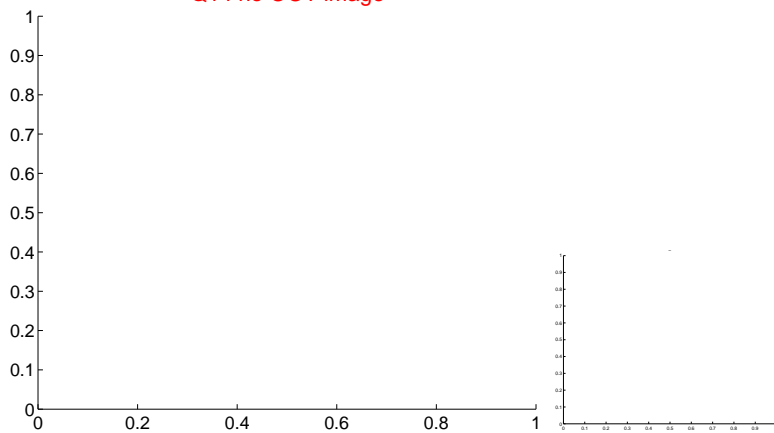
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



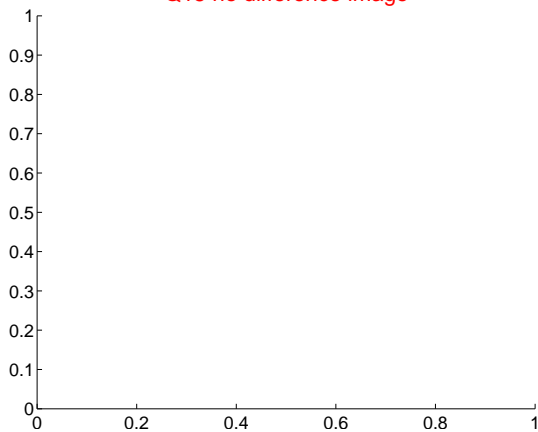
Q14 no difference image



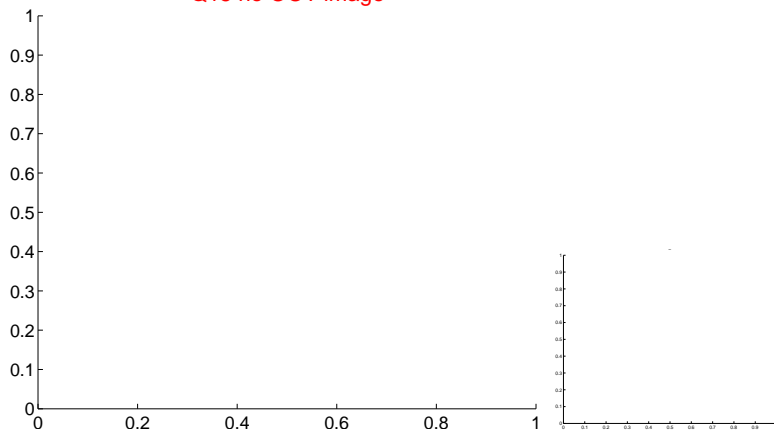
Q14 no OOT image



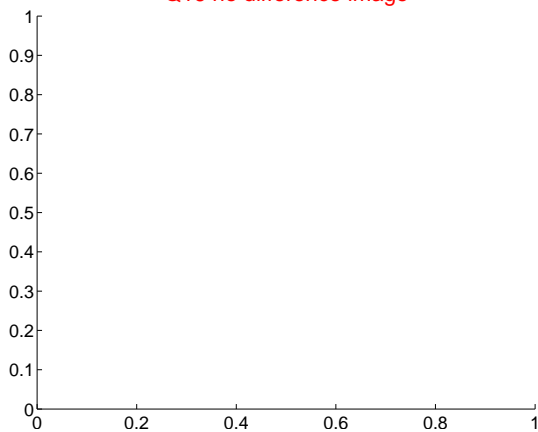
Q15 no difference image



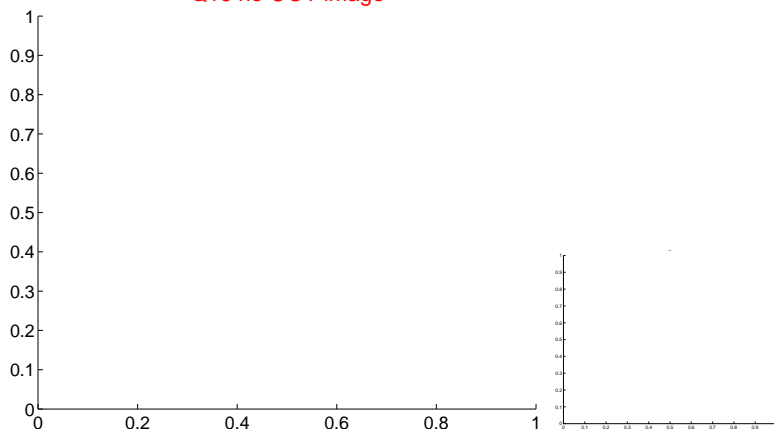
Q15 no OOT image



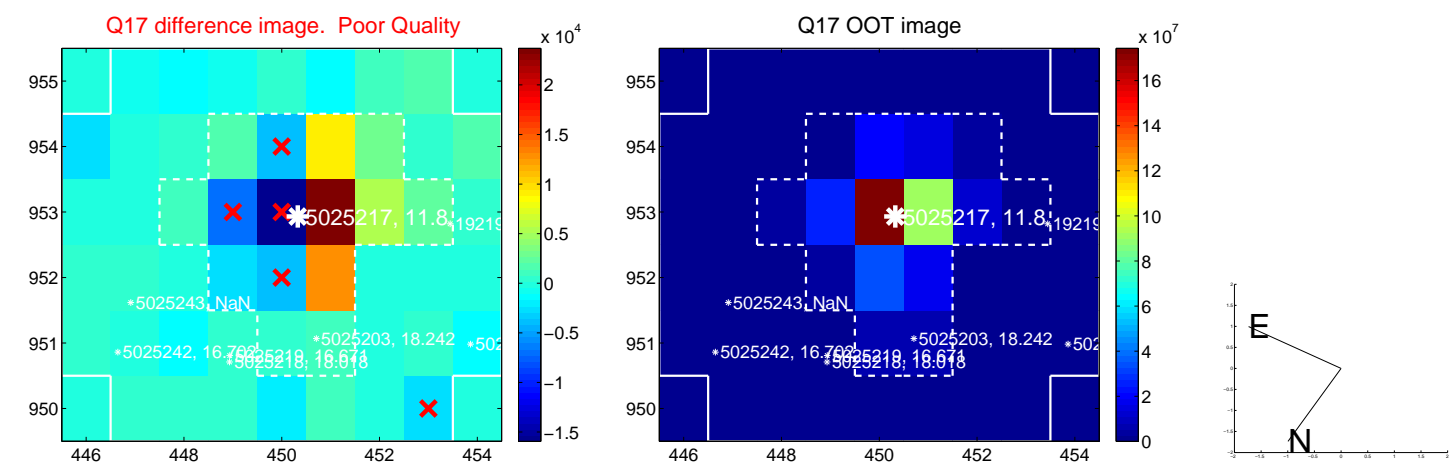
Q16 no difference image



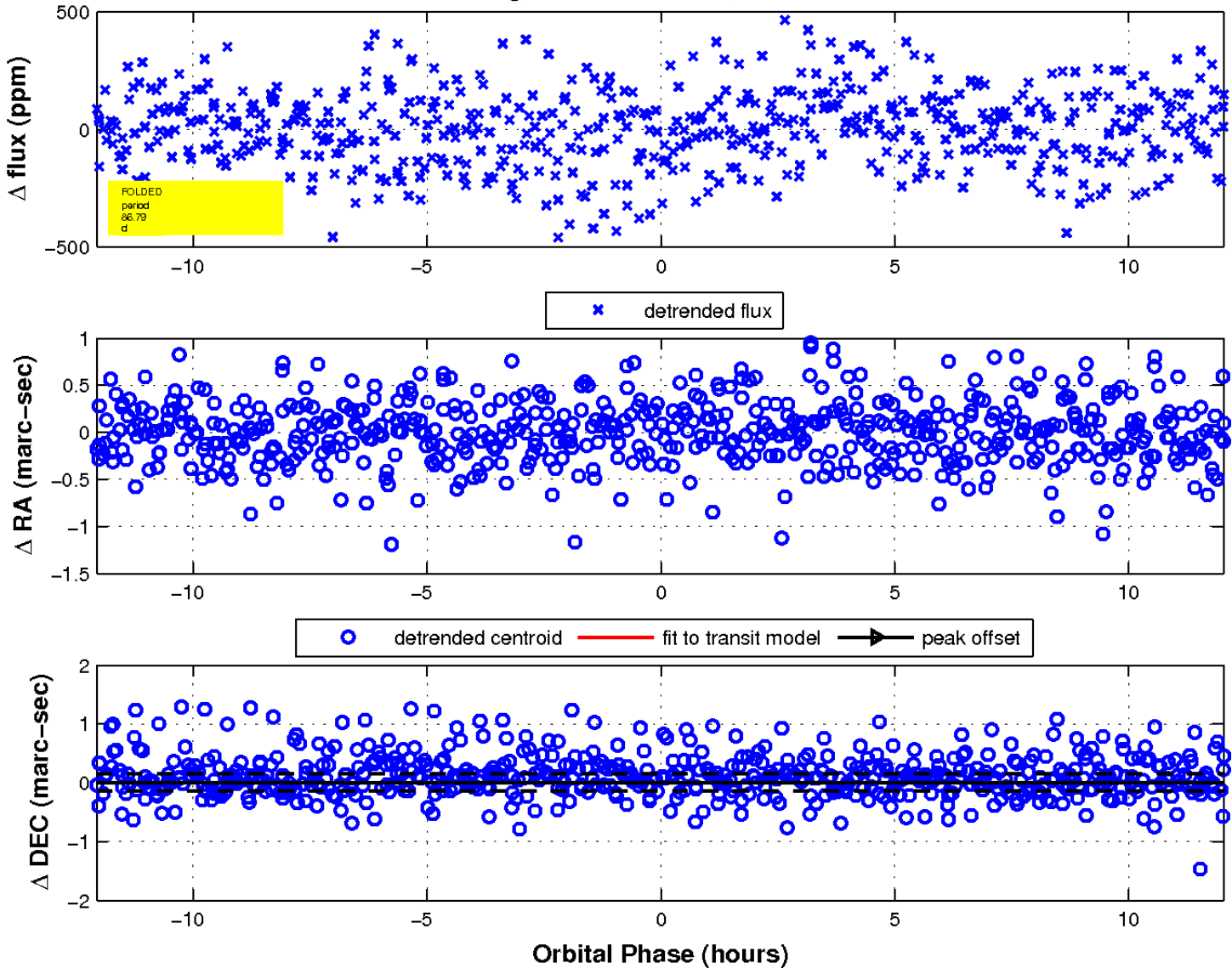
Q16 no OOT image



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

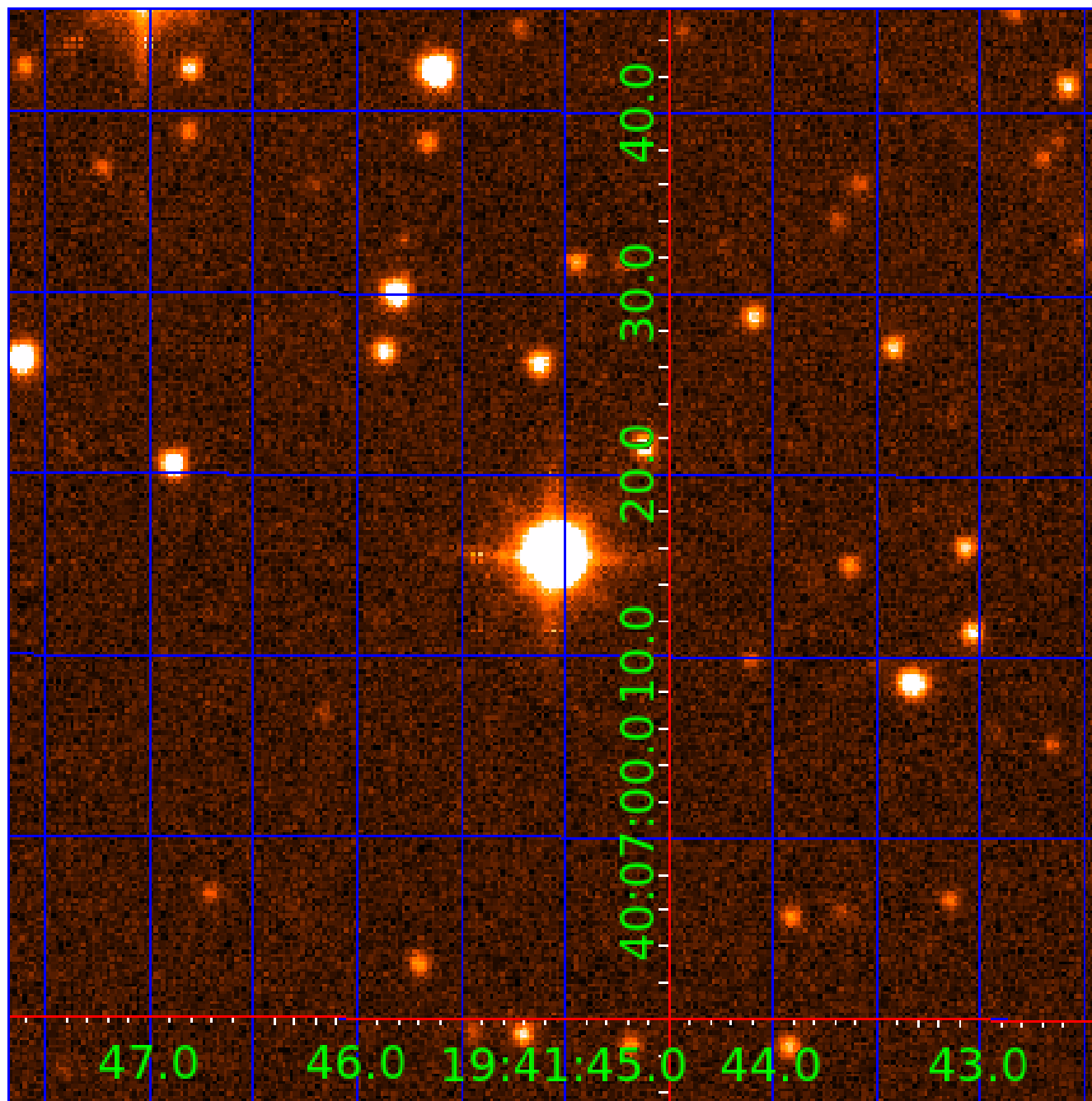


fluxWeightedCentroids, Planet 6 of 9



UKIRT Image

Declination



KIC 005025217

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})
005025217-01	OBS	6496.01	1.787604	132.417372	26.4	6.928	10.2	7.7	7.34	6286	4.55	53036.26
005025217-02	OBS	No	1.787610	131.532827	43.6	5.860	10.5	11.1	7.34	6286	7.98	53036.05
005025217-03	OBS	No	18.447369	148.951248	218.2	8.613	9.2	8.9	7.34	6286	12.39	2360.60
005025217-04	OBS	No	29.489063	159.114814	255.0	5.450	9.3	7.6	7.34	6286	15.32	1262.95
005025217-05	OBS	No	19.418689	137.006080	201.0	8.561	8.8	8.4	7.34	6286	11.88	2204.49
005025217-06	OBS	No	86.793263	178.302201	475.1	4.020	8.5	8.4	7.34	6286	18.10	299.42
005025217-07	OBS	No	10.595765	139.960544	215.0	1.911	8.0	7.8	7.34	6286	12.51	4944.15
005025217-08	OBS	No	12.464005	142.264307	176.1	2.619	8.0	7.3	7.34	6286	10.22	3981.60
005025217-09	OBS	No	12.084867	134.855286	99.8	3.500	7.9	-1.0	7.34	6286	7.37	4149.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005025217-01	OBS	FP	0.00	1	0	0	0	LPP_DV
005025217-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005025217-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005025217-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_NOFITS

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

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

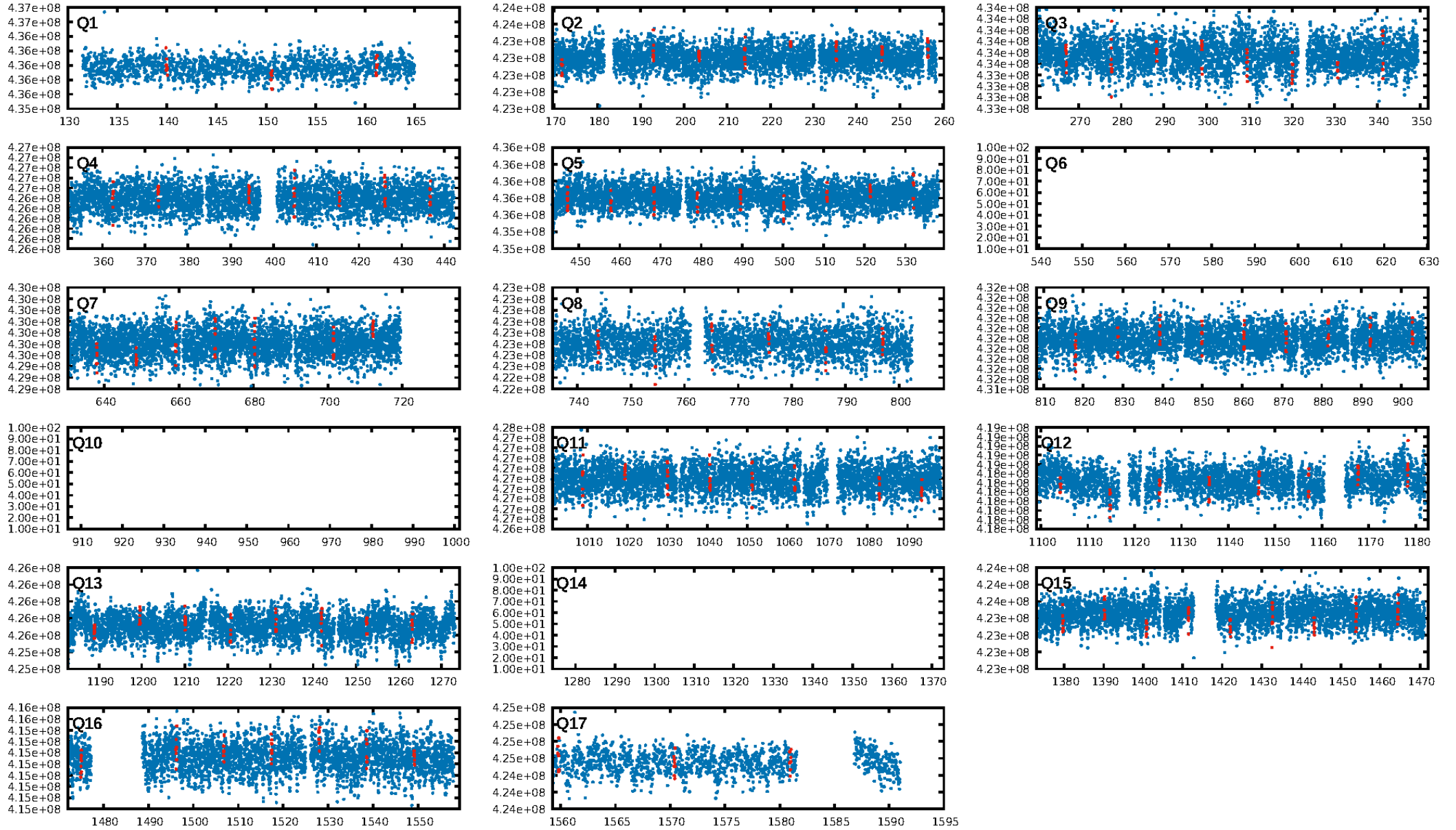
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005025217-07

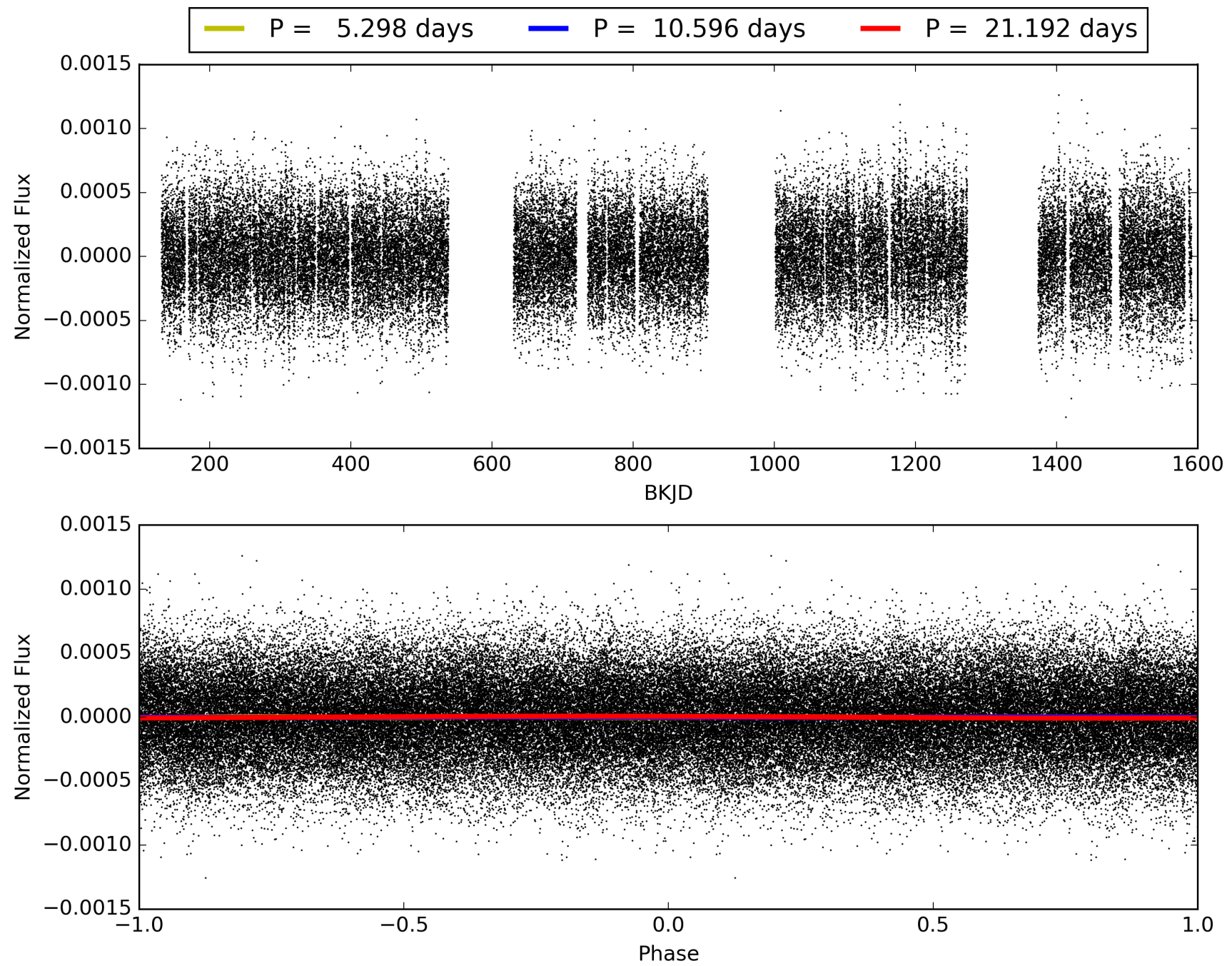
No Significant Match Found

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

TCE 005025217-07, PDC Light Curves

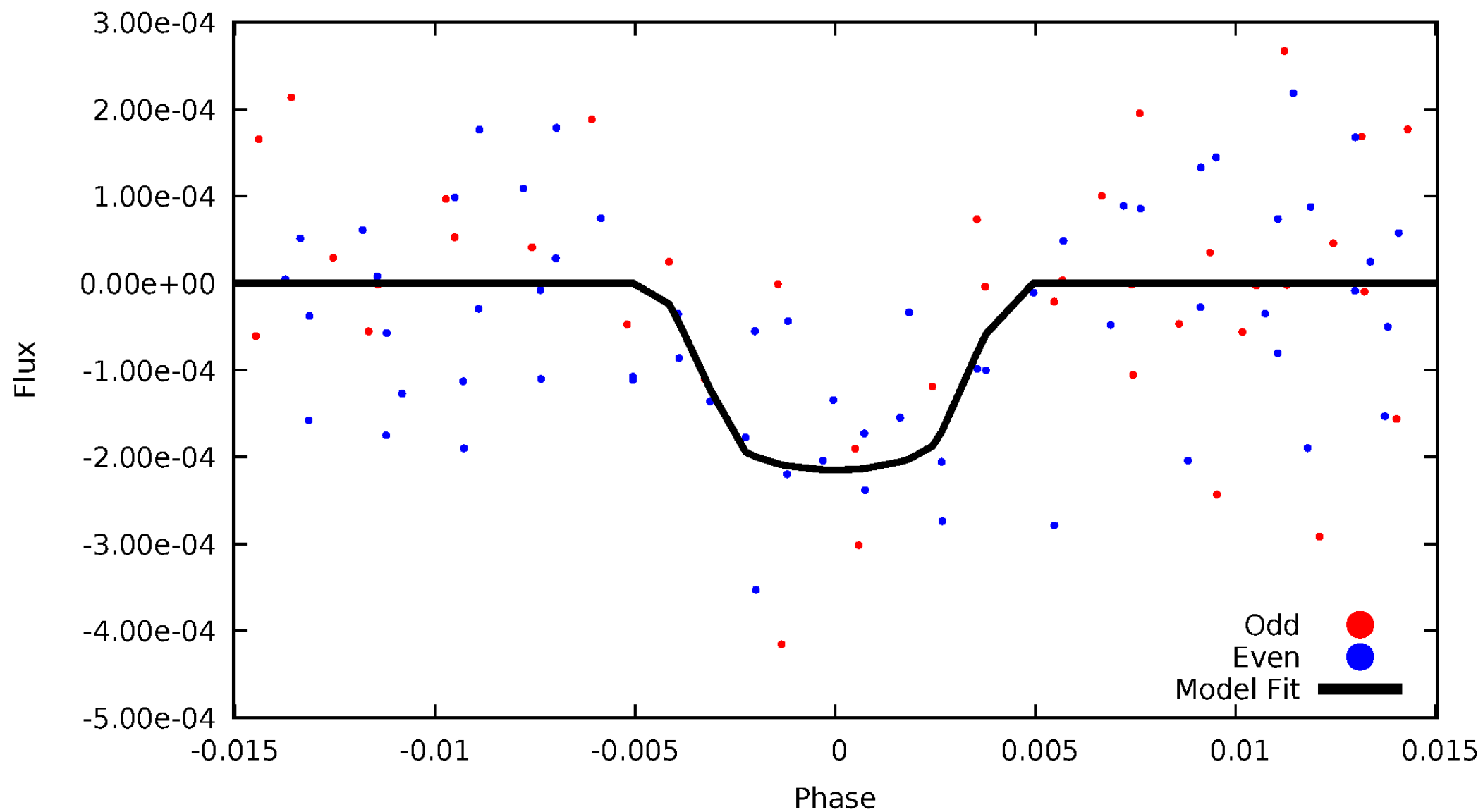


TCE 005025217-07



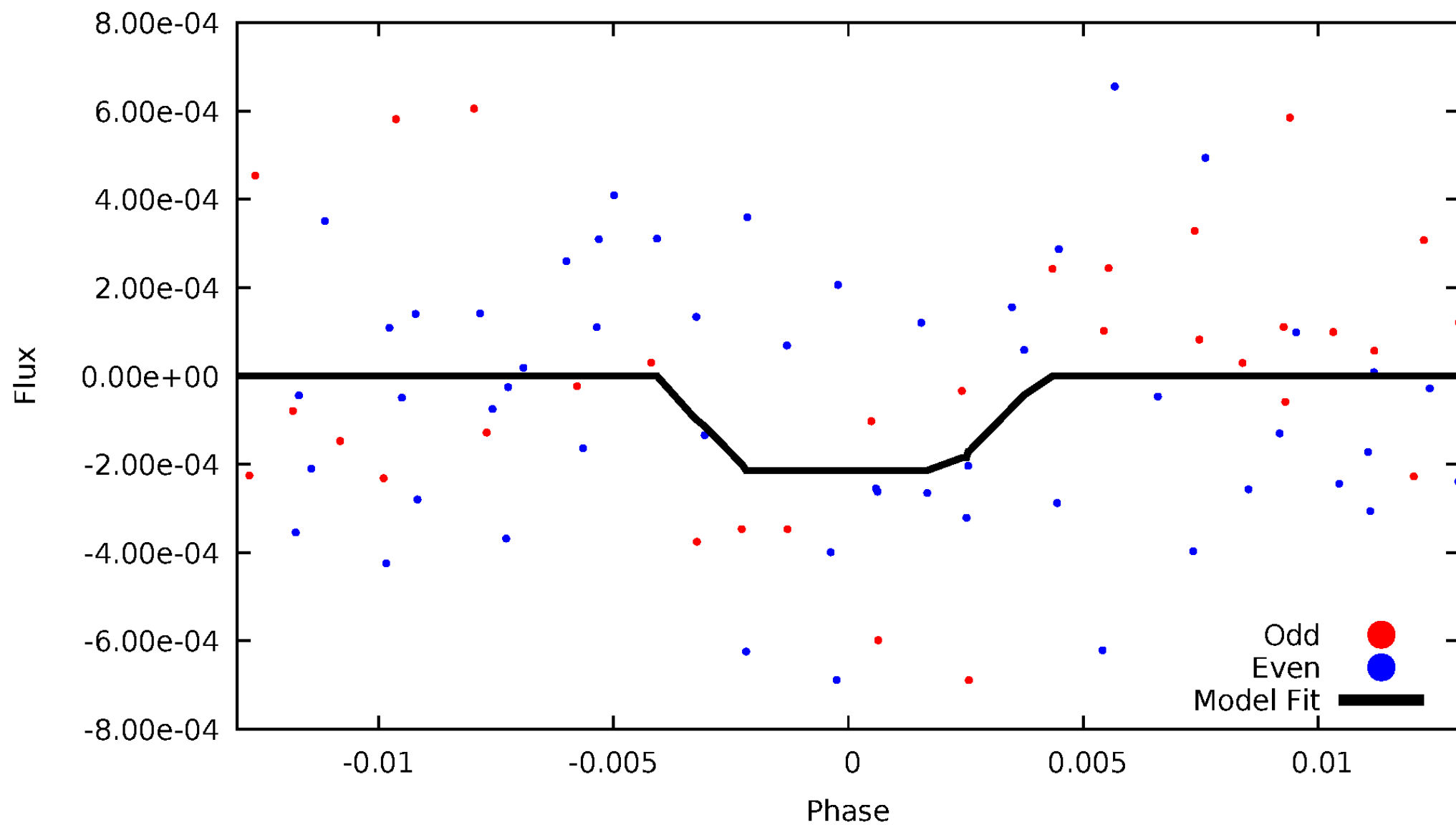
DV Odd/Even

TCE 005025217-07



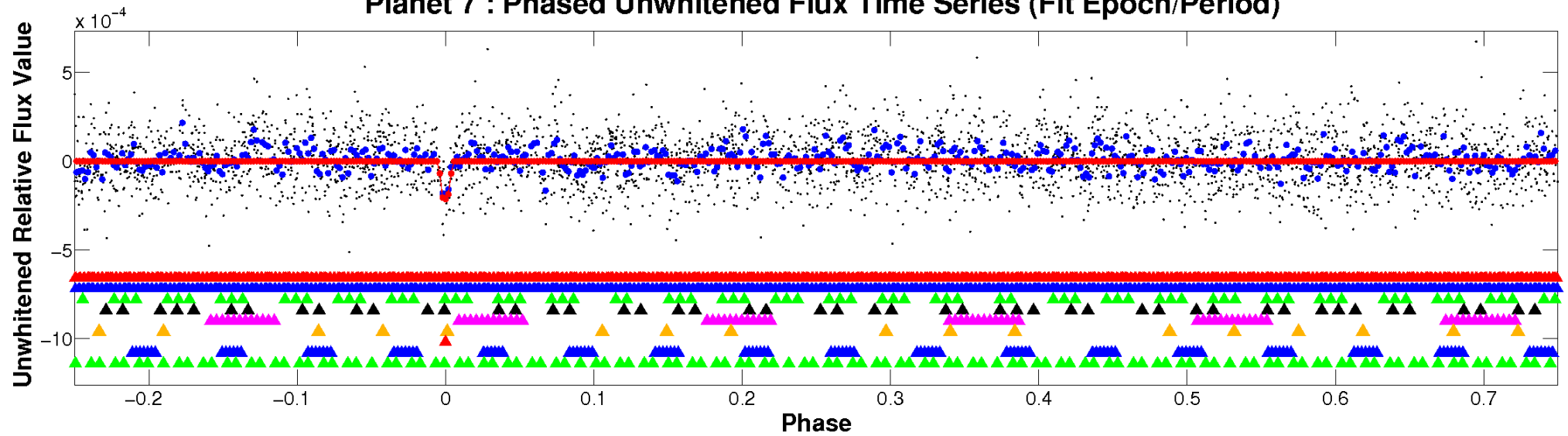
ALT Odd/Even

TCE 005025217-07

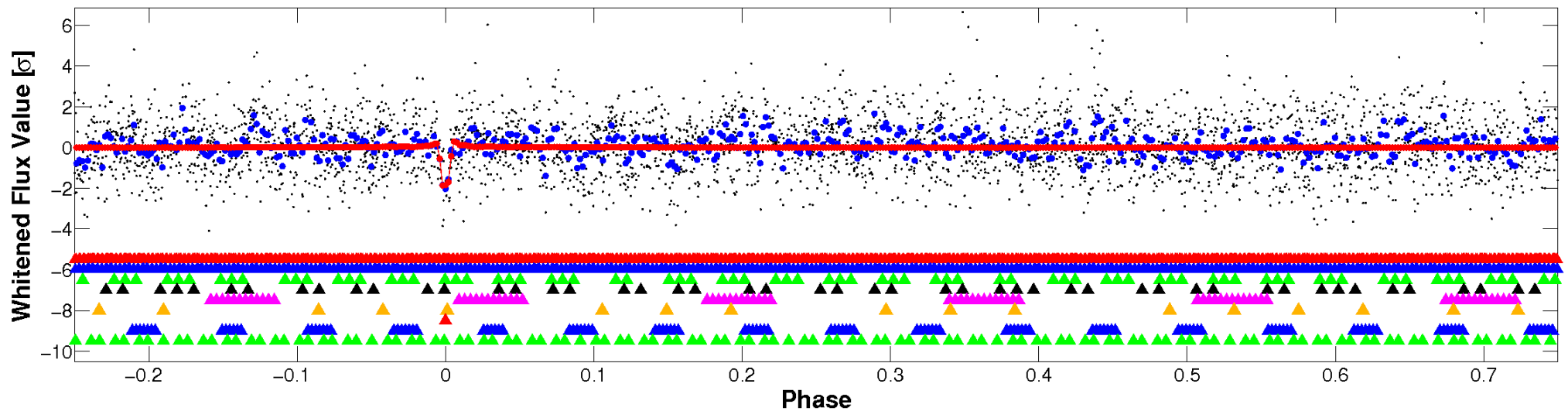


Non-Whitened Vs. Whitened Light Curve

Planet 7 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

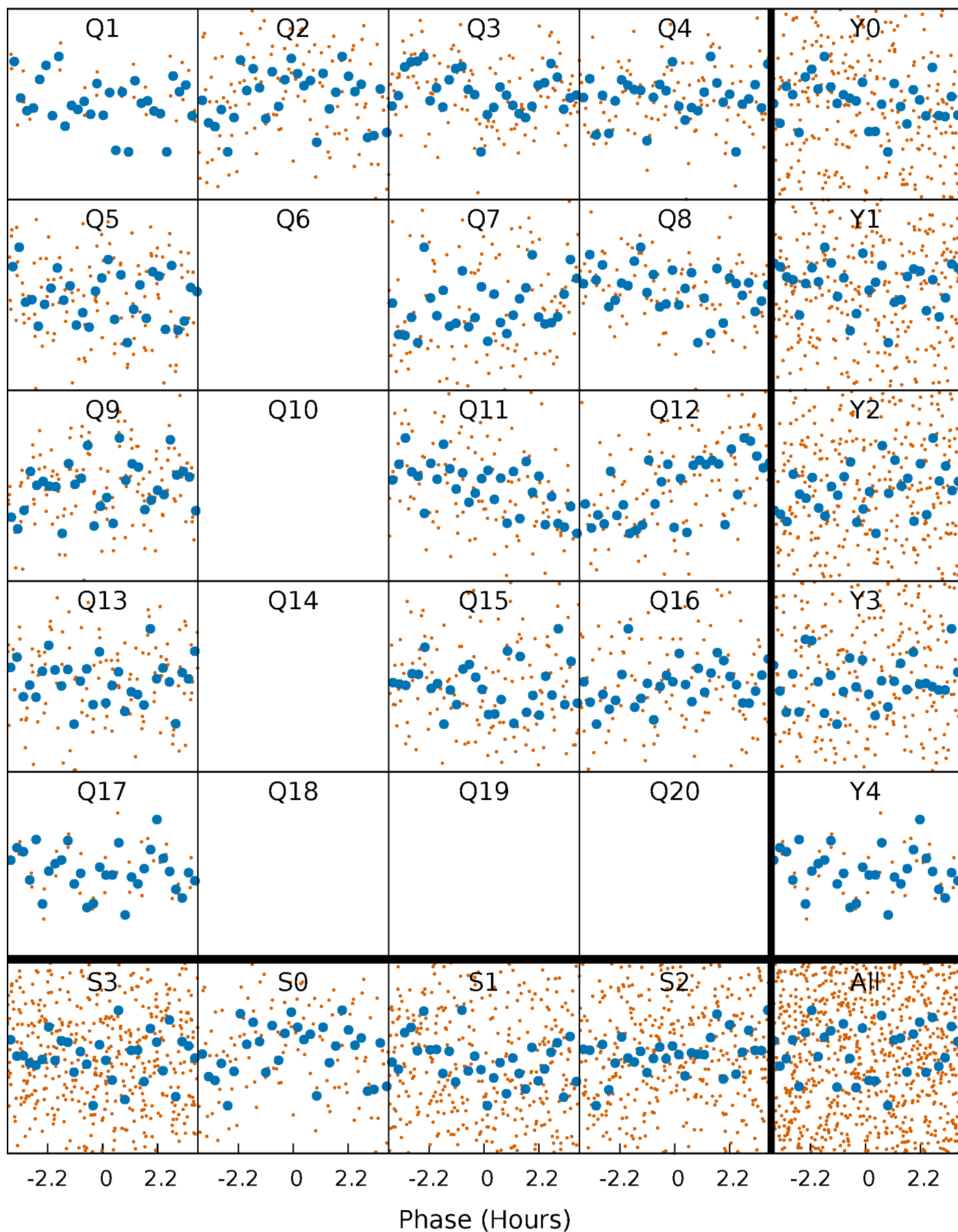


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



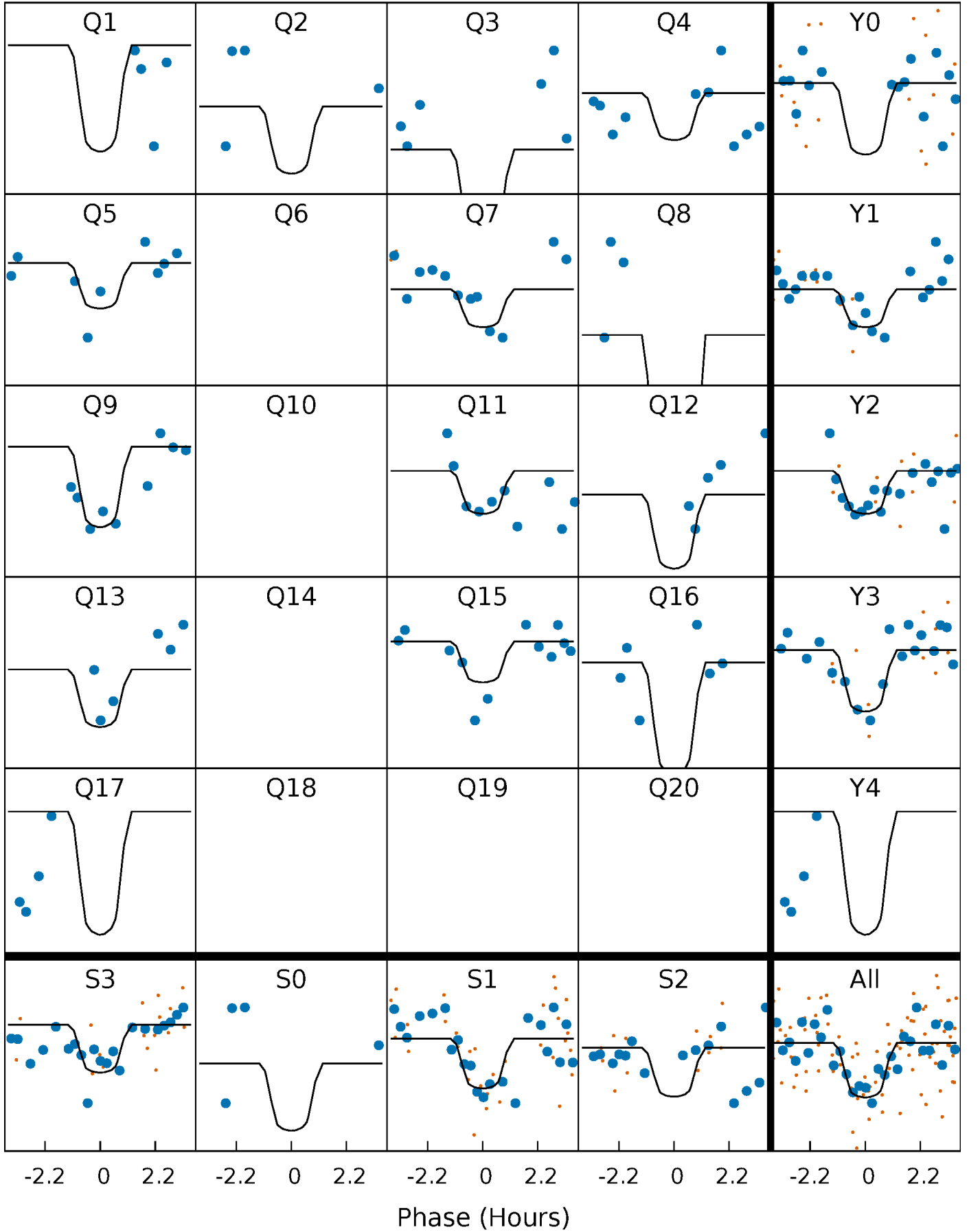
PDC Quarter-Phased Transit Curves

TCE 005025217-07 P= 10.595765 Days $T_0=139.960544$ (BKJD)



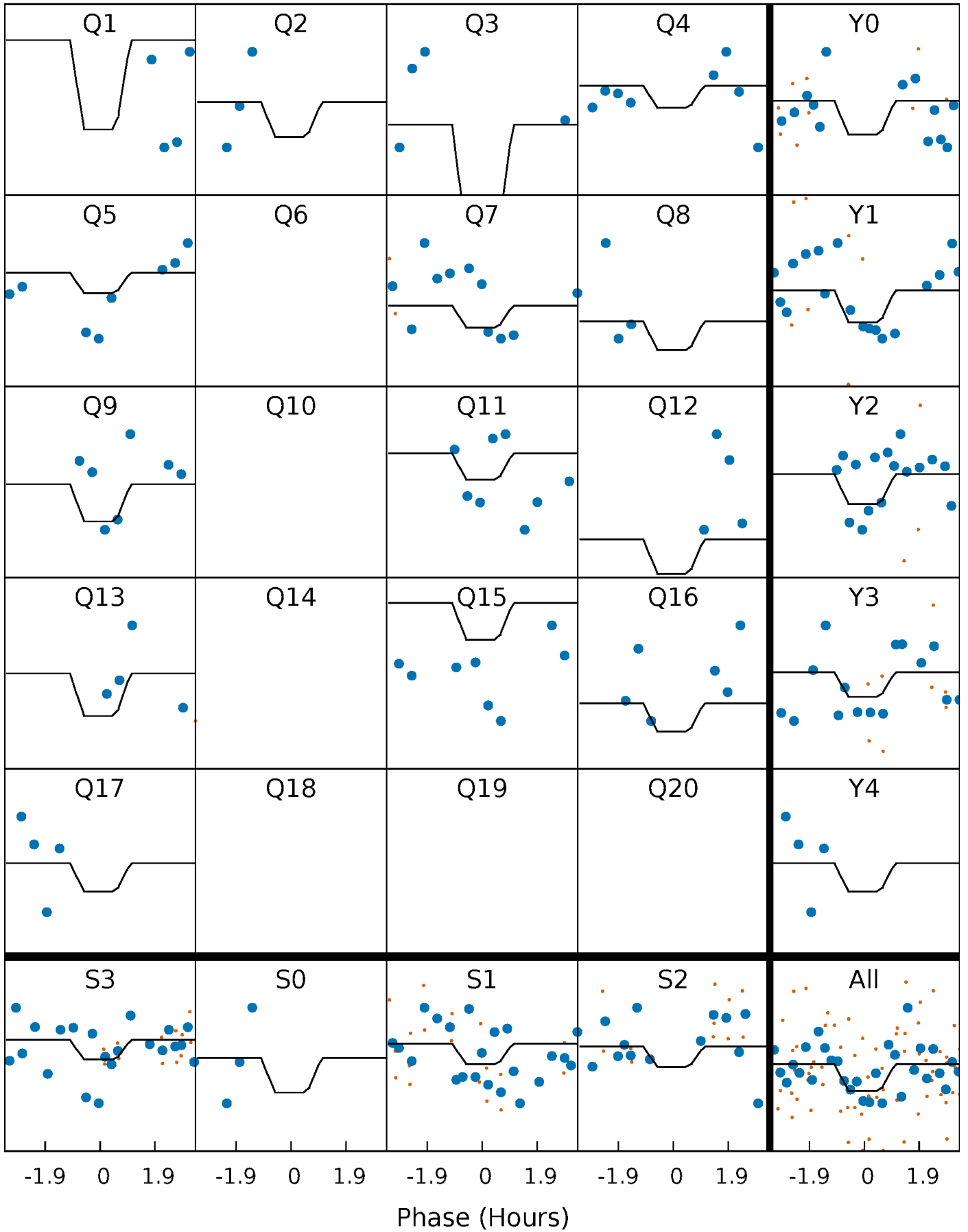
DV Quarter-Phased Transit Curves

TCE 005025217-07 $P = 10.595765$ Days $T_0 = 139.960544$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

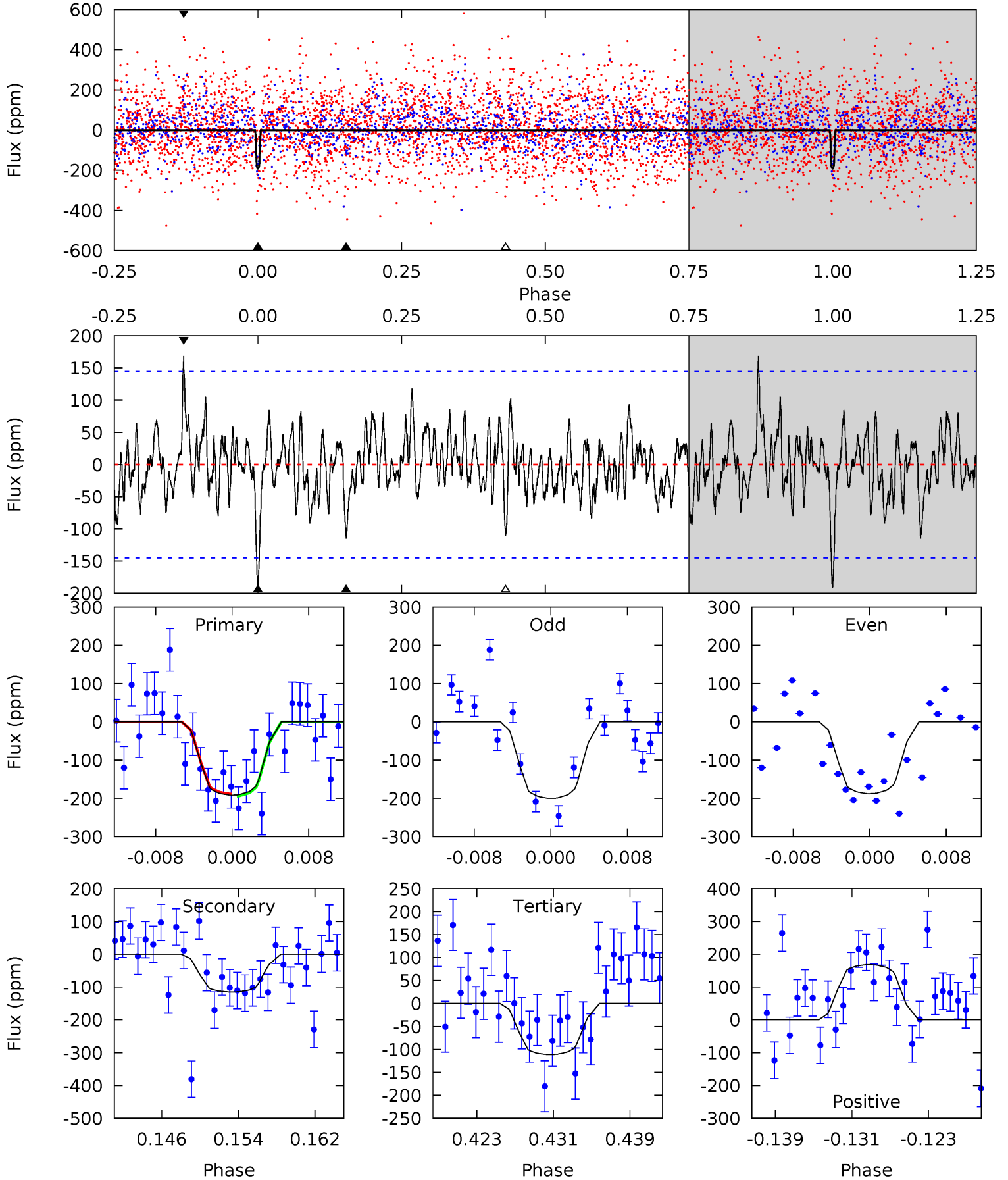
TCE 005025217-07 P= 10.595735 Days $T_0=139.943201$ (BKJD)



DV Model-Shift Uniqueness Test

005025217-07, $P = 10.595765$ Days, $E = 129.364779$ Days

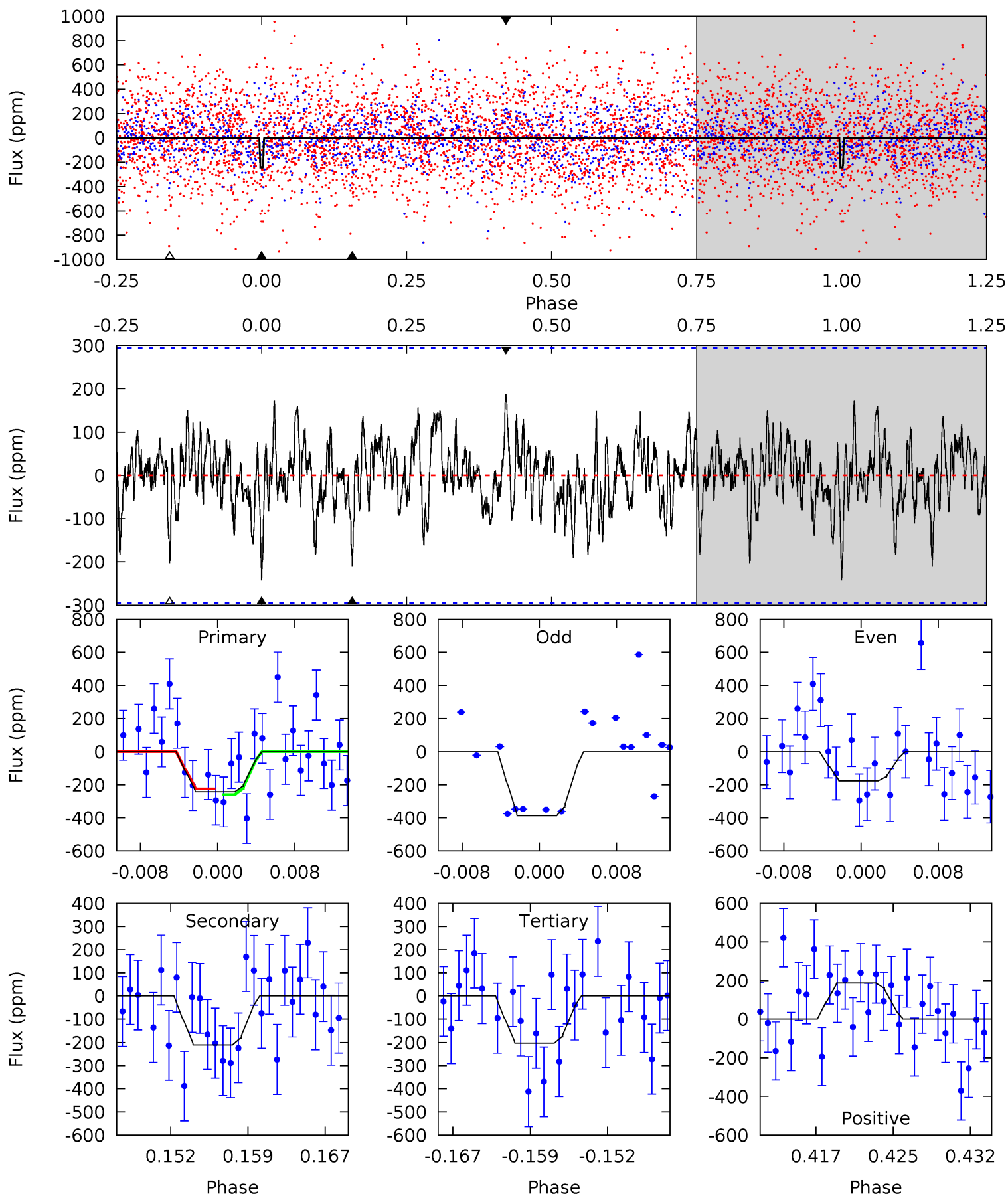
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.71	4.03	3.90	5.90	5.08	2.66	1.40	2.81	0.81	0.13	-1.87	0.20	0.93	0.47	0.10



Alt Model-Shift Uniqueness Test

005025217-07, P = 10.595735 Days, E = 129.347466 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.19	3.63	3.51	3.23	5.08	2.67	1.15	0.68	0.96	0.13	0.41	1.71	1.88	0.44	0.30



Stellar Parameters For KIC 005025217

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6286^{+157}_{-188}	$3.056^{+0.435}_{-0.145}$	$-0.500^{+0.350}_{-0.300}$	$7.342^{+1.923}_{-3.572}$	$2.233^{+0.311}_{-0.673}$	$0.008^{+0.034}_{-0.003}$
	+2%/-3%	+14%/-5%	+70%/-60%	+26%/-49%	+14%/-30%	+425%/-42%
Source	PHO1	FLK73	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 005025217-07 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-115 ± 29	$13.84^{+13.26}_{-8.81}$	2941^{+242}_{-356}	4756^{+3183}_{-1141}	$4.727^{+32.101}_{-3.495}$
Alt.	-210 ± 58	$13.46^{+11.62}_{-9.19}$	2916^{+252}_{-349}	5555^{+5234}_{-1354}	$9.764^{+84.381}_{-7.138}$

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

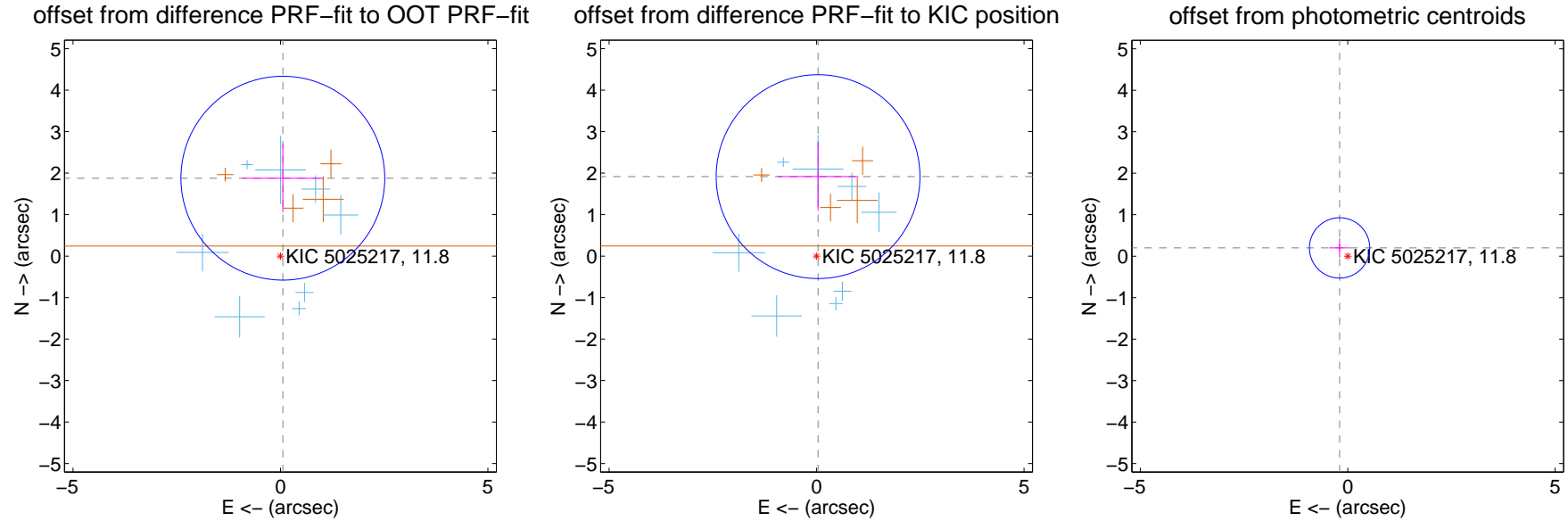
DV Centroid Data

Supplemental centroid analysis for 005025217-07. **Kepler magnitude: 11.80**. Transit SNR 7.81

There are 8 quarters with good PRF difference image offsets

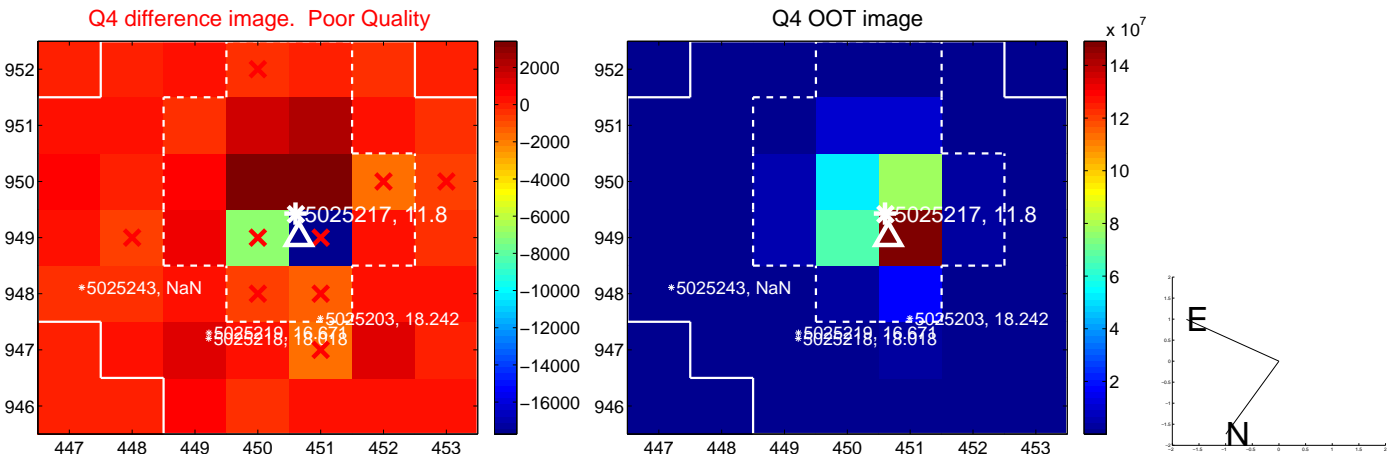
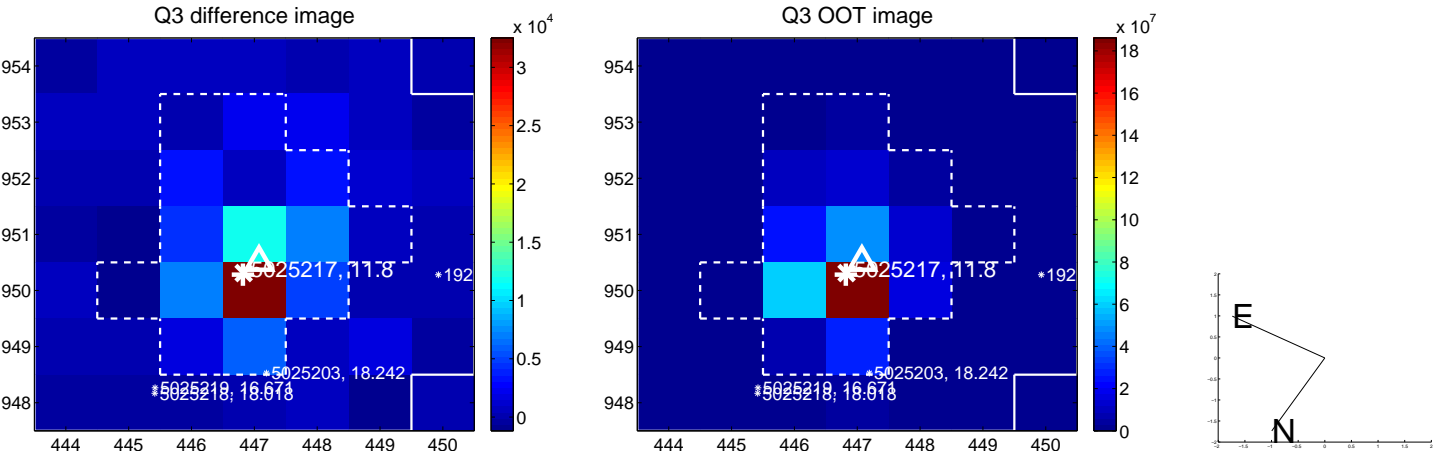
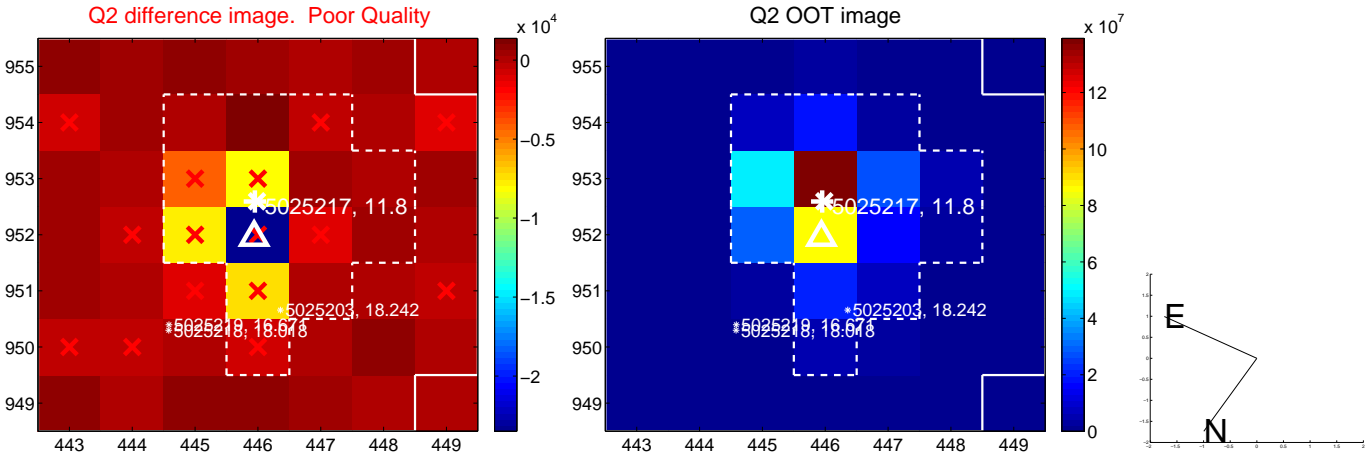
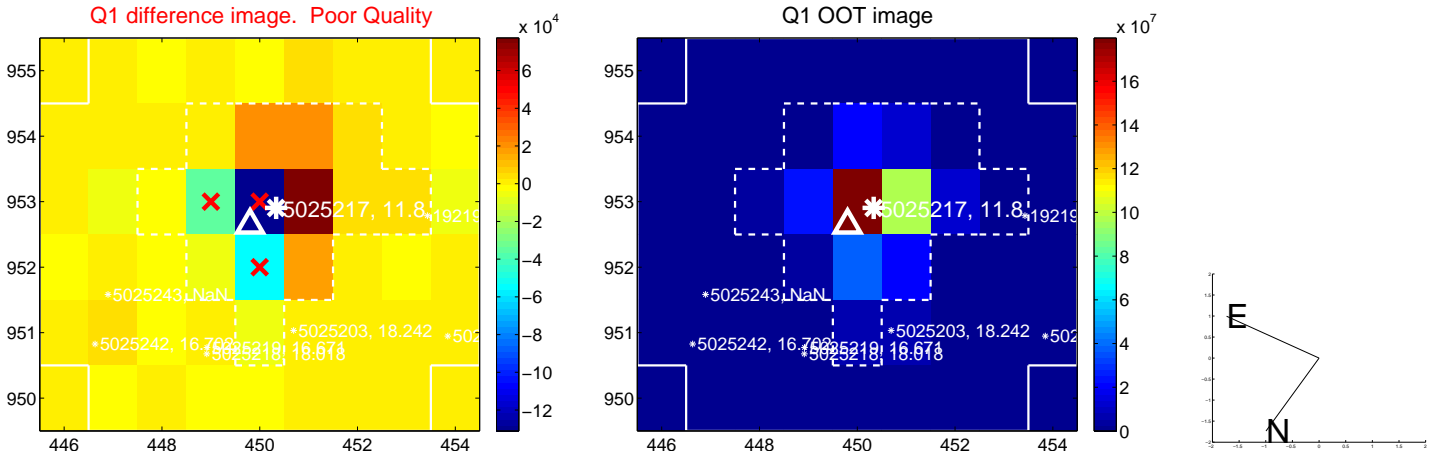
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.880 ± 0.819	2.30	-0.057 ± 0.974	1.879 ± 0.819
PRF-fit source offset from KIC position	1.917 ± 0.819	2.34	-0.036 ± 0.974	1.916 ± 0.819
photometric centroid source offset	0.28 ± 0.24	1.15	0.20 ± 0.25	0.20 ± 0.23

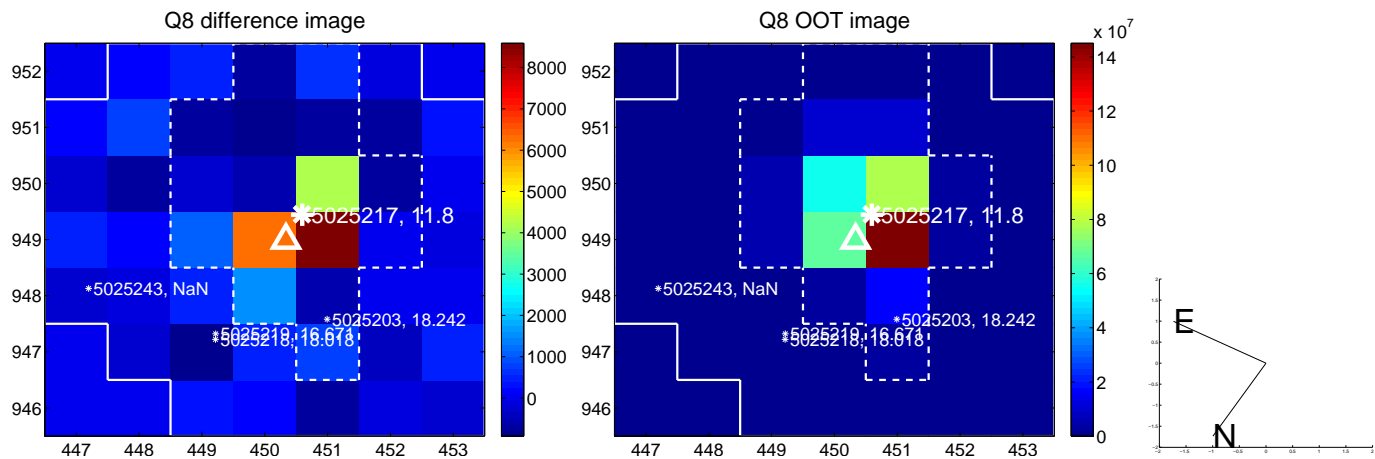
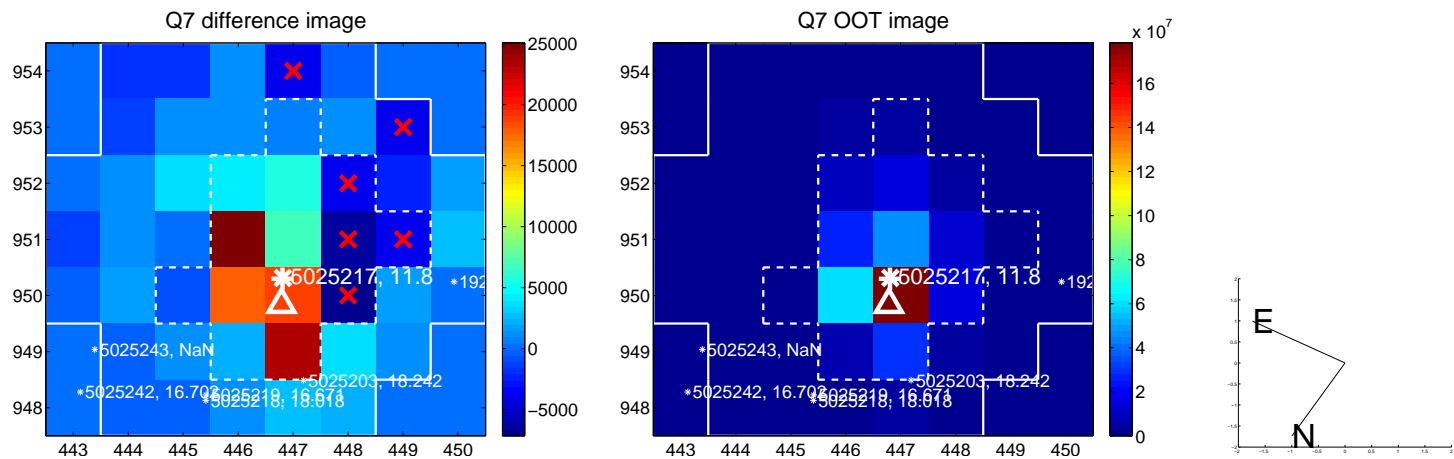
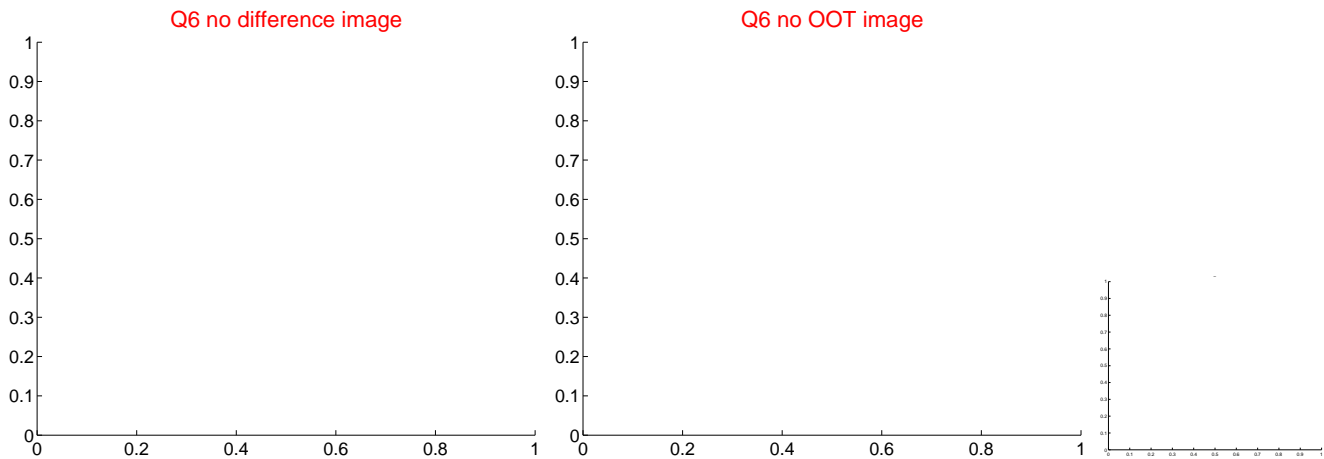
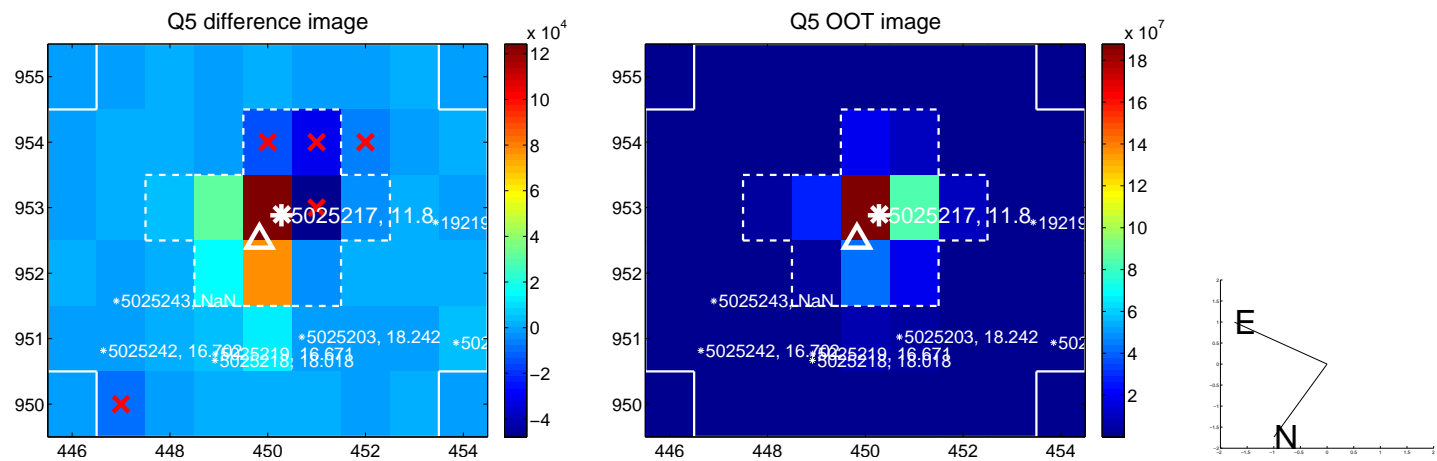


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

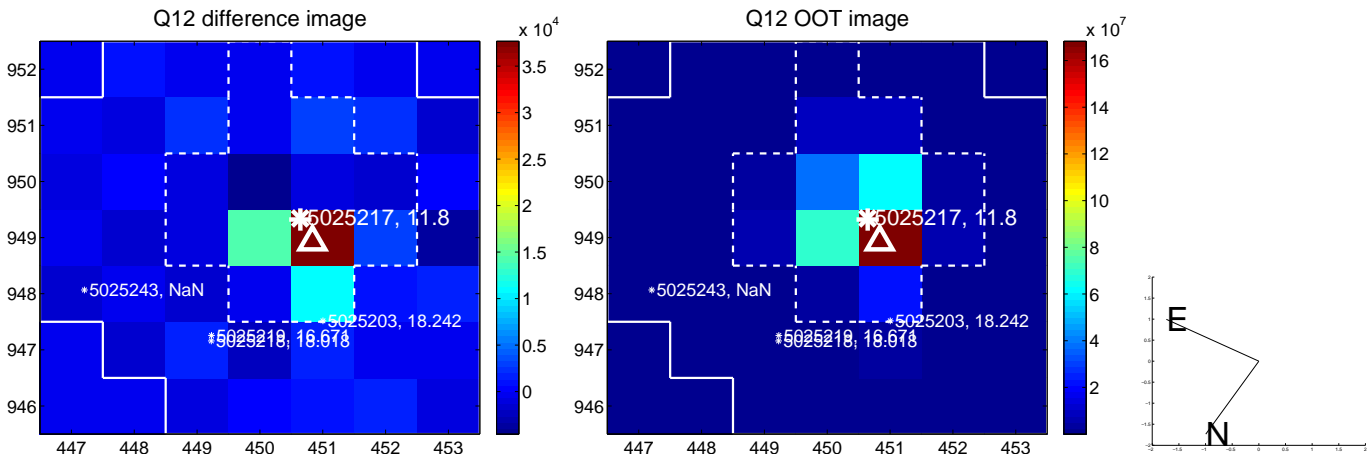
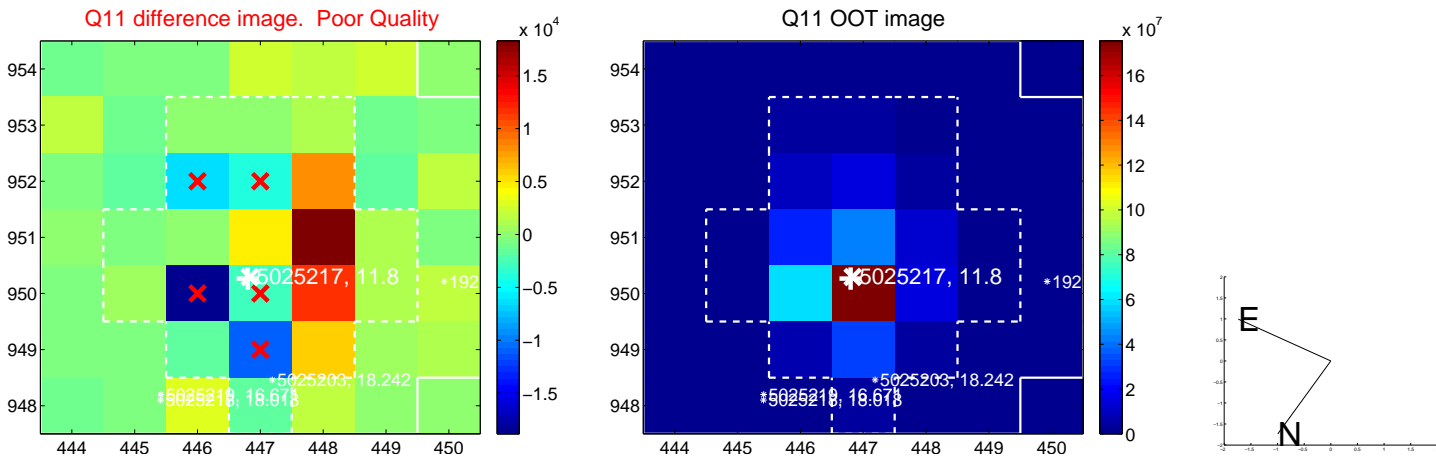
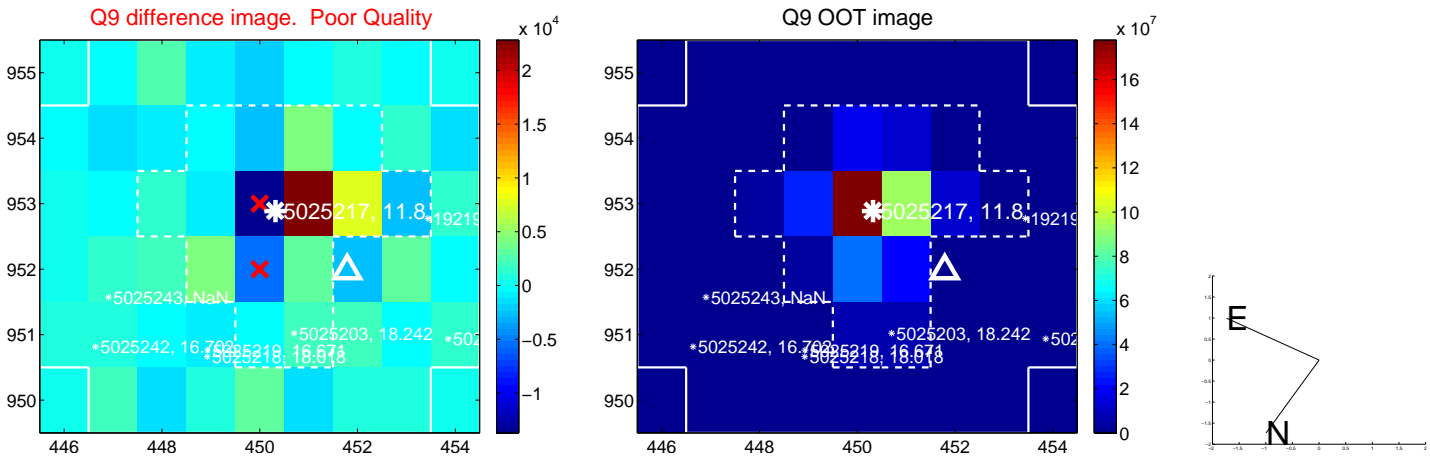
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



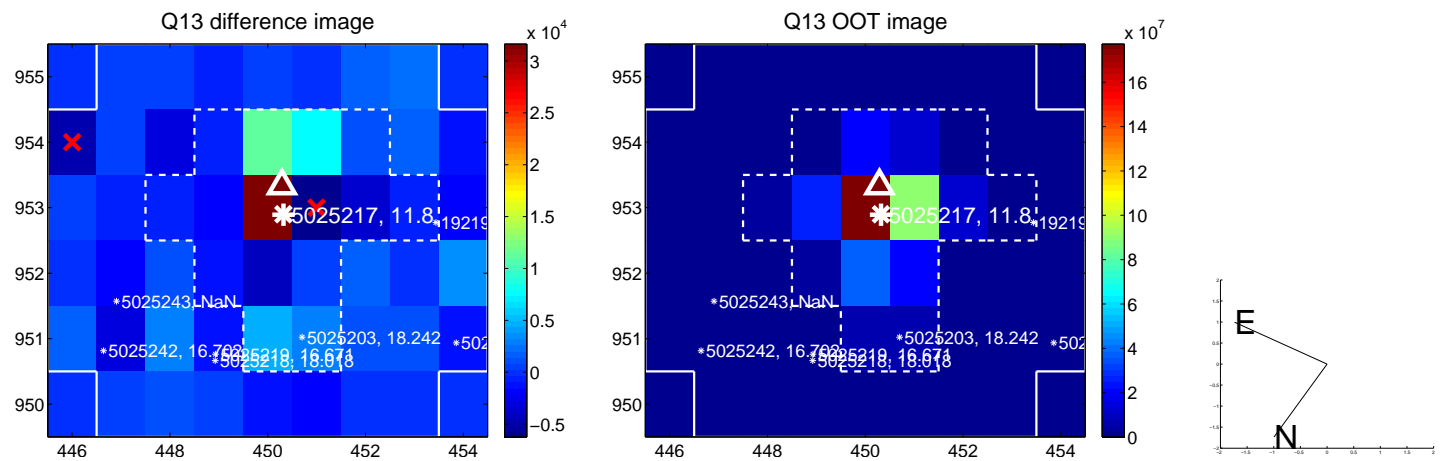
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



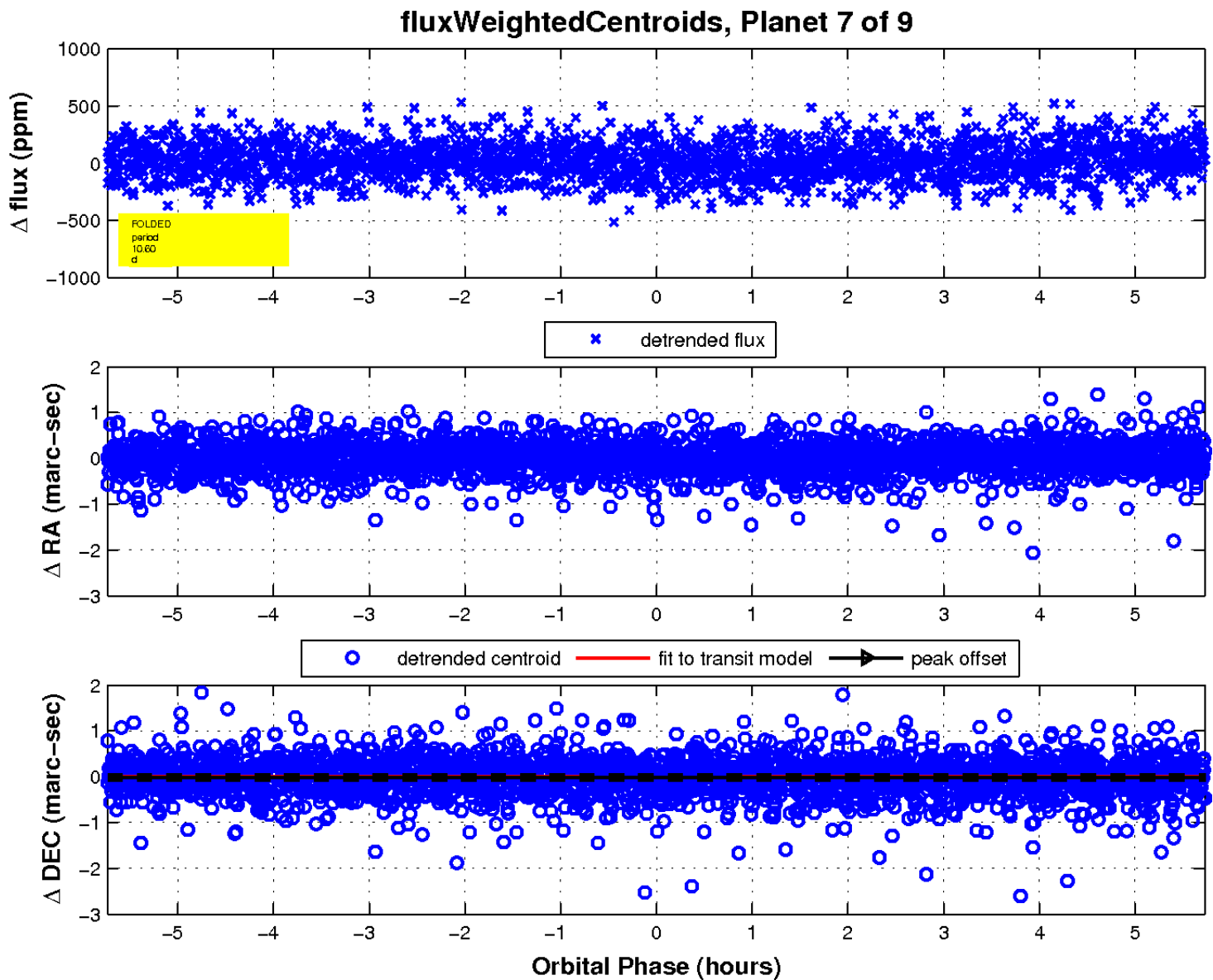
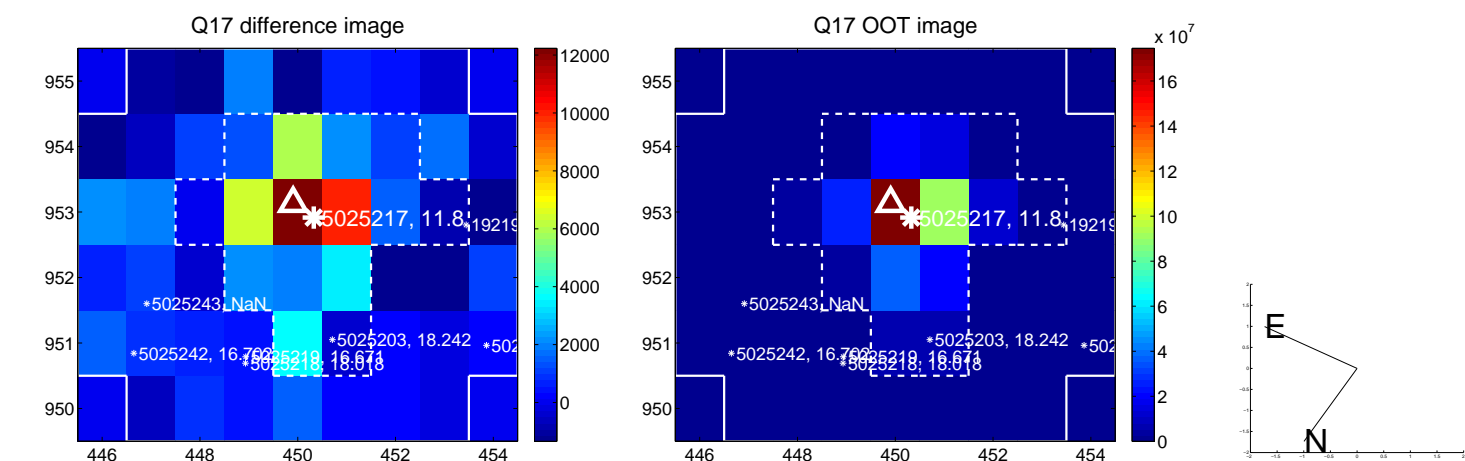
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

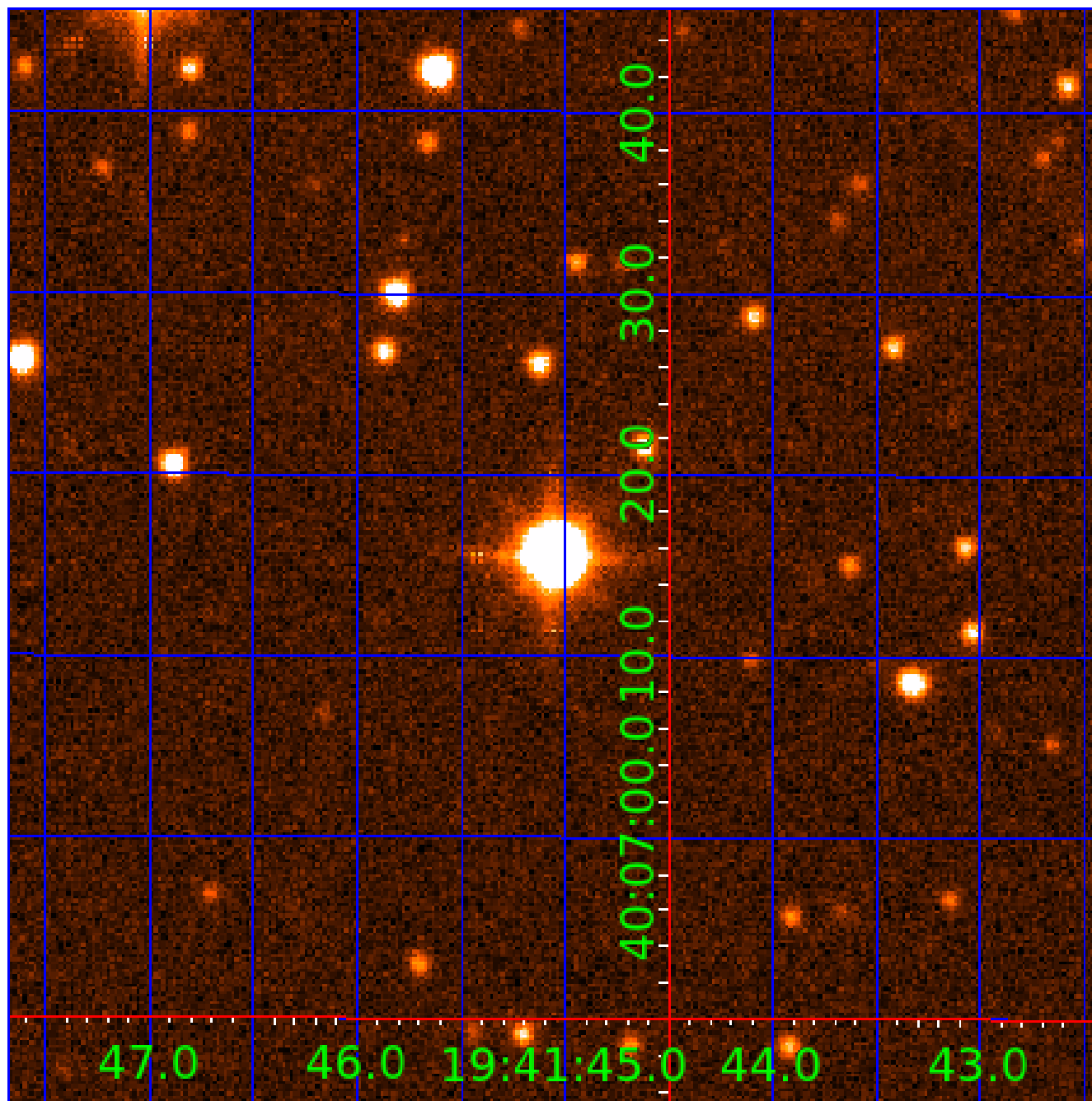


white \times : KIC target position; $+$: OOT centroid; Δ : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005025217

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})
005025217-01	OBS	6496.01	1.787604	132.417372	26.4	6.928	10.2	7.7	7.34	6286	4.55	53036.26
005025217-02	OBS	No	1.787610	131.532827	43.6	5.860	10.5	11.1	7.34	6286	7.98	53036.05
005025217-03	OBS	No	18.447369	148.951248	218.2	8.613	9.2	8.9	7.34	6286	12.39	2360.60
005025217-04	OBS	No	29.489063	159.114814	255.0	5.450	9.3	7.6	7.34	6286	15.32	1262.95
005025217-05	OBS	No	19.418689	137.006080	201.0	8.561	8.8	8.4	7.34	6286	11.88	2204.49
005025217-06	OBS	No	86.793263	178.302201	475.1	4.020	8.5	8.4	7.34	6286	18.10	299.42
005025217-07	OBS	No	10.595765	139.960544	215.0	1.911	8.0	7.8	7.34	6286	12.51	4944.15
005025217-08	OBS	No	12.464005	142.264307	176.1	2.619	8.0	7.3	7.34	6286	10.22	3981.60
005025217-09	OBS	No	12.084867	134.855286	99.8	3.500	7.9	-1.0	7.34	6286	7.37	4149.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005025217-01	OBS	FP	0.00	1	0	0	0	LPP_DV
005025217-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005025217-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005025217-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_NOFITS

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.

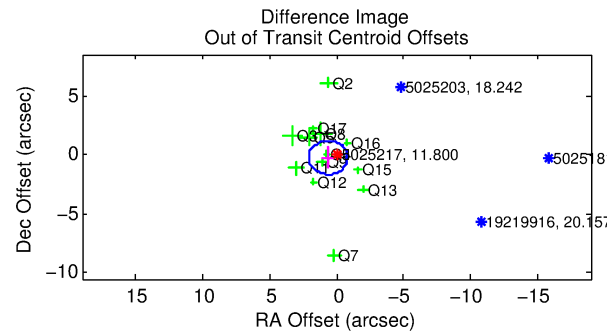
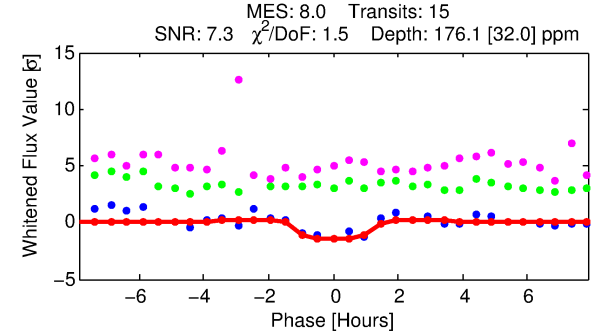
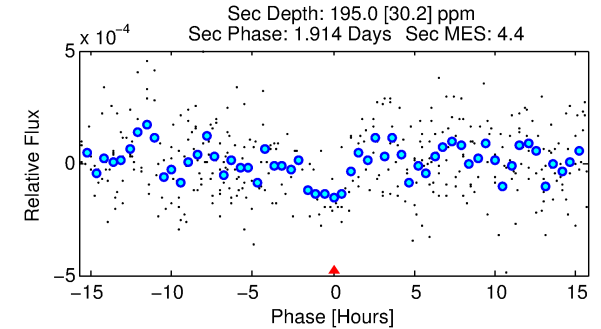
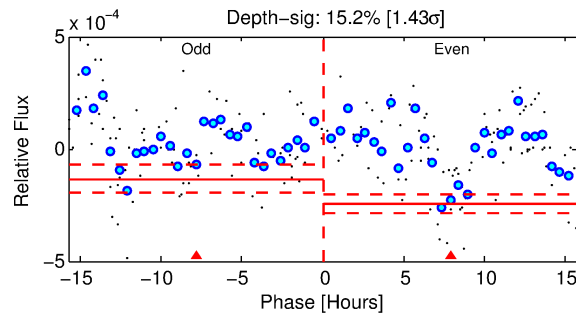
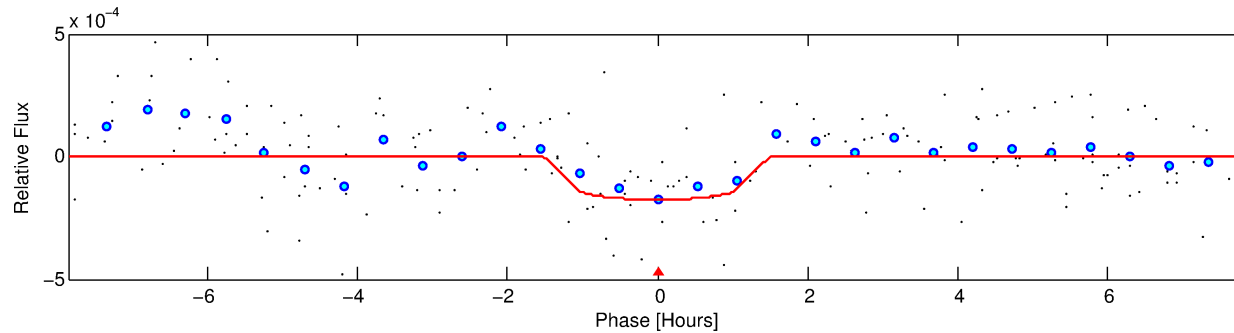
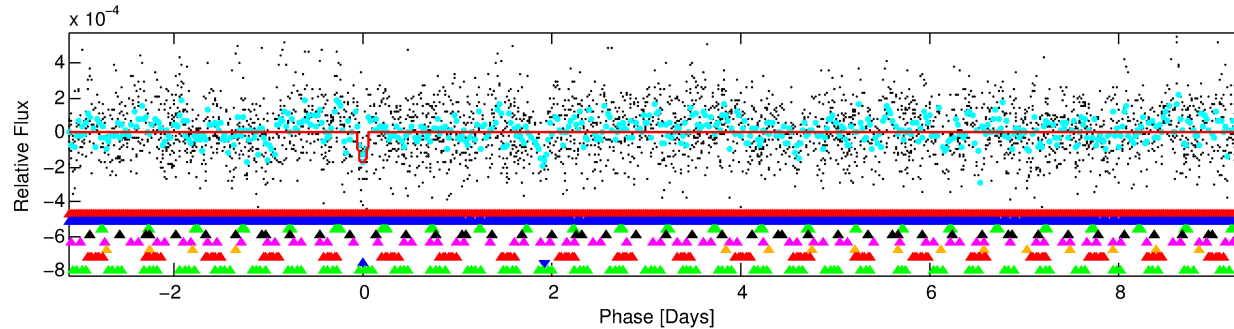
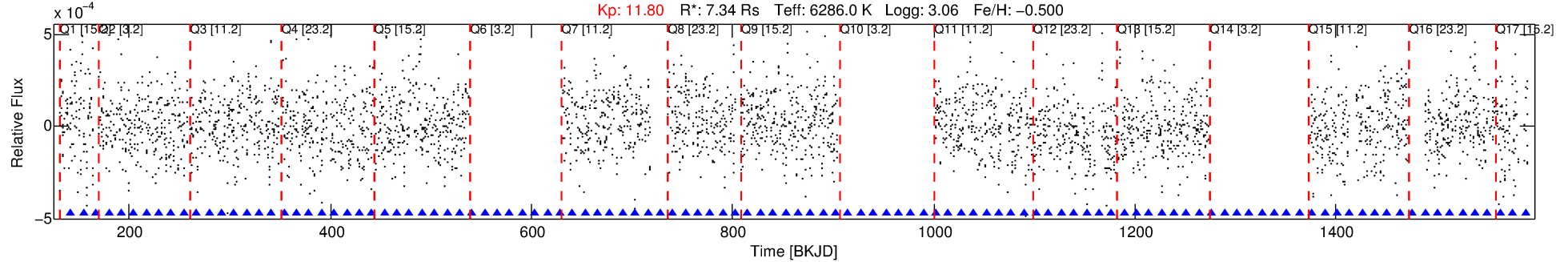
Ephemeris Match Information For 005025217-08

No Significant Match Found

DV One-Page Summary

KIC: 5025217 Candidate: 8 of 9 Period: 12.464 d
KOI: K06496 Corr: No Ephemeris Match

Kp: 11.80 R*: 7.34 Rs Teff: 6286.0 K Logg: 3.06 Fe/H: -0.500



DV Fit Results:

Period = 12.46400 [0.00021] d
Epoch = 142.2643 [0.0119] BKJD
Rp/R* = 0.0128 [0.0147]
a/R* = 29.72 [178.83]
b = 0.60 [6.52]
Seff = 3981.60 [2993.89]
Teq = 2026 [381] K
Rp = 10.22 [12.79] Re
a = 0.1376 [0.0641] AU
Ag = 19.46 [47.26] [0.39σ]
Teffp = 6578 [3808] K [1.19σ]

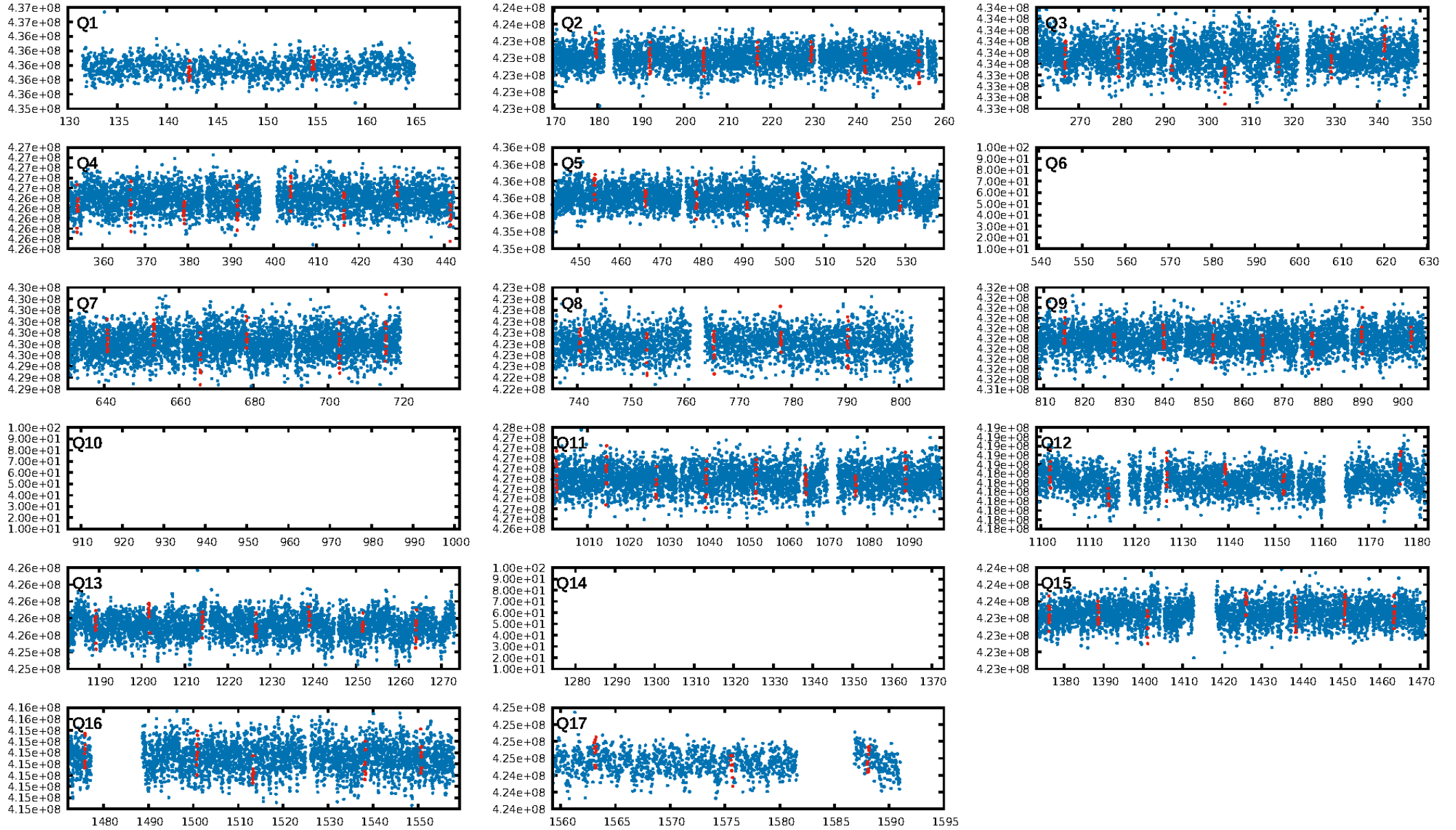
DV Diagnostic Results:

ShortPeriod-sig: 96.3% [2.08σ]
LongPeriod-sig: 100.0% [15.95σ]
ModelChiSquare2-sig: 3.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [15/15]
GhostDiagnostic-chr: 4.375
Centroid-sig: N/A
Centroid-so: 0.418 arcsec [1.50σ]
OotOffset-rm: 0.675 arcsec [1.41σ]
KicOffset-rm: 0.673 arcsec [1.41σ]
OotOffset-st: 1/4/4/4 [13]
KicOffset-st: 1/4/4/4 [13]
DiffImageQuality-fgm: 0.62 [8/13]
DiffImageOverlap-fno: 0.14 [2/14]

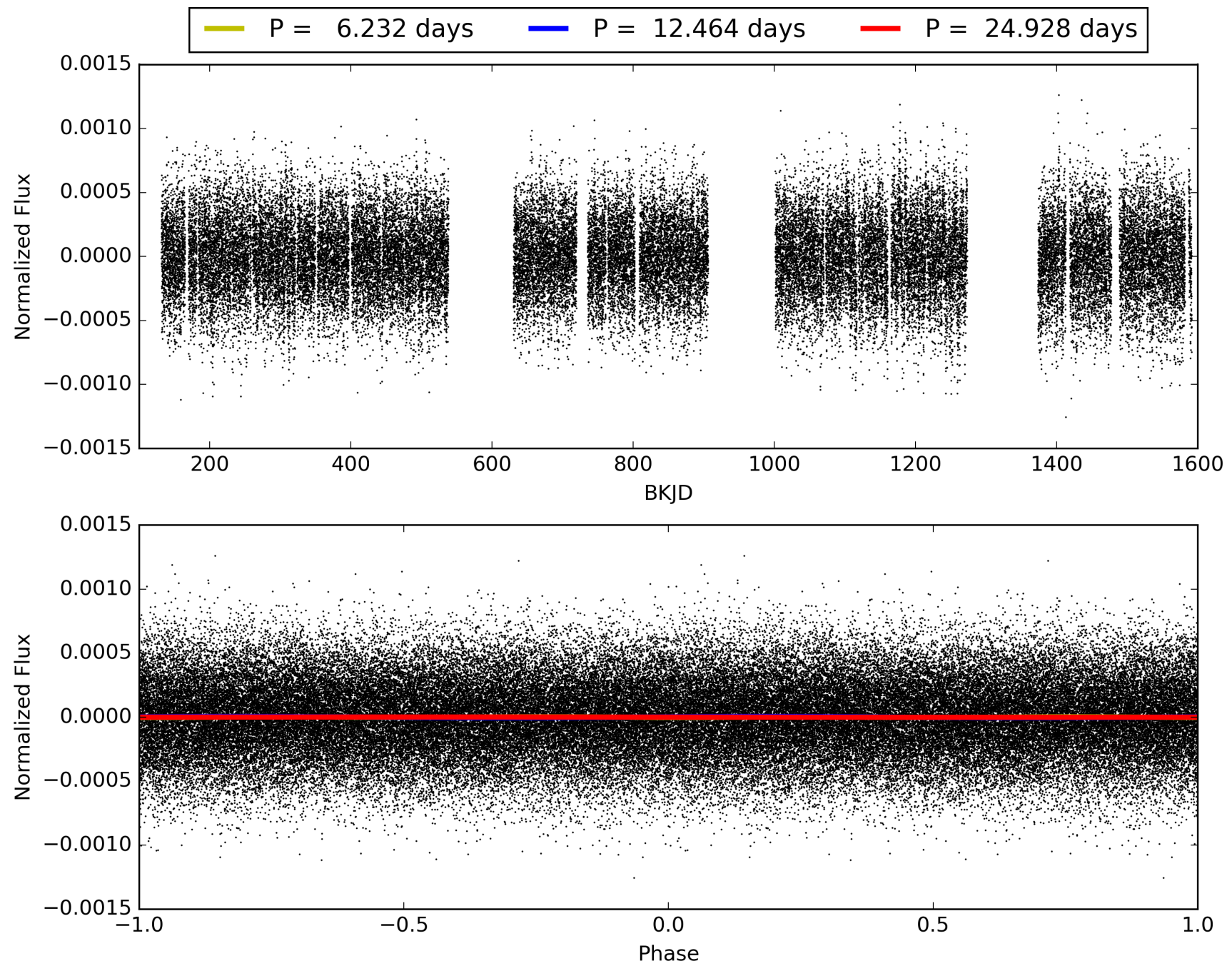
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 06:18:50 Z

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

TCE 005025217-08, PDC Light Curves

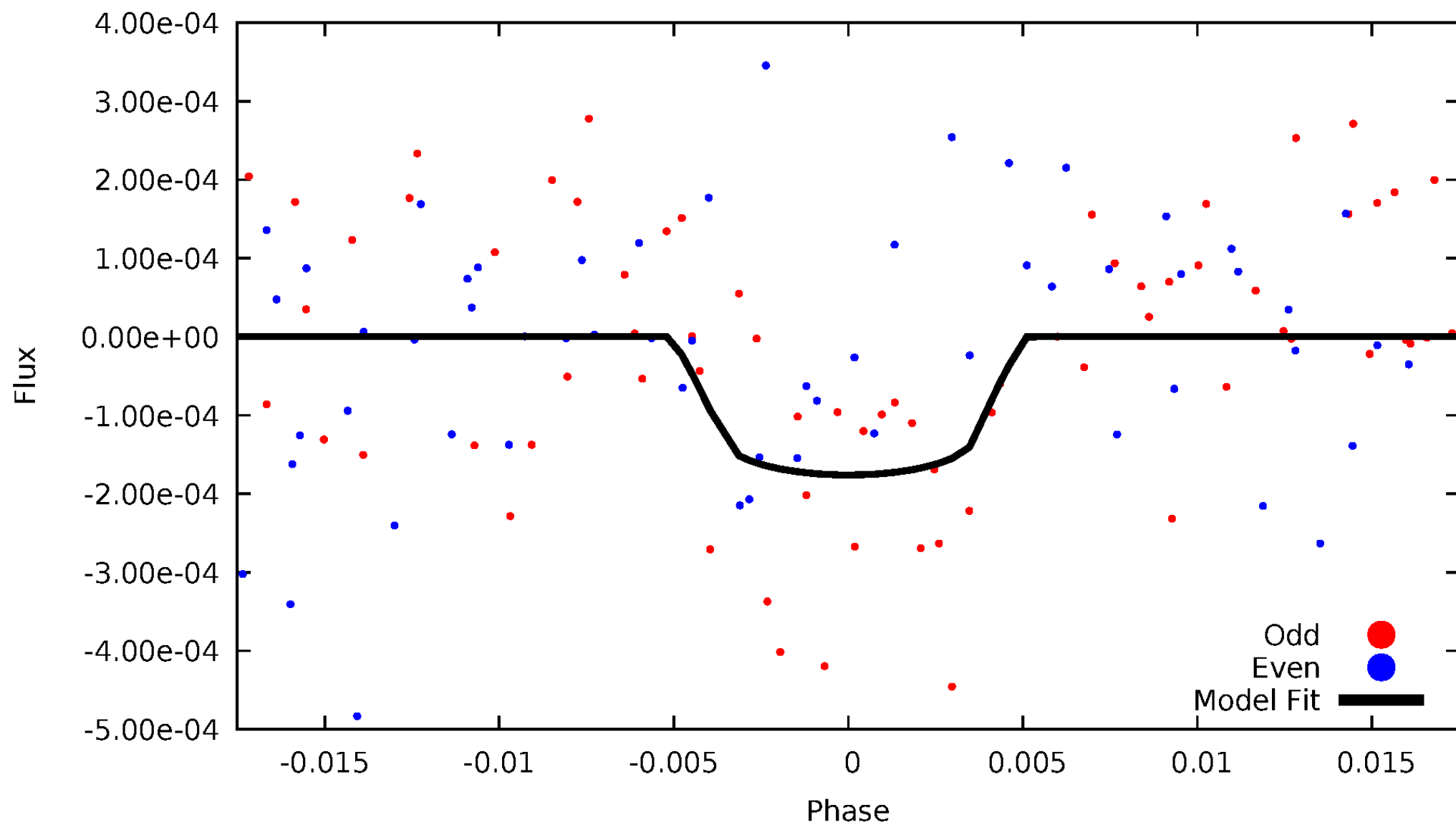


TCE 005025217-08



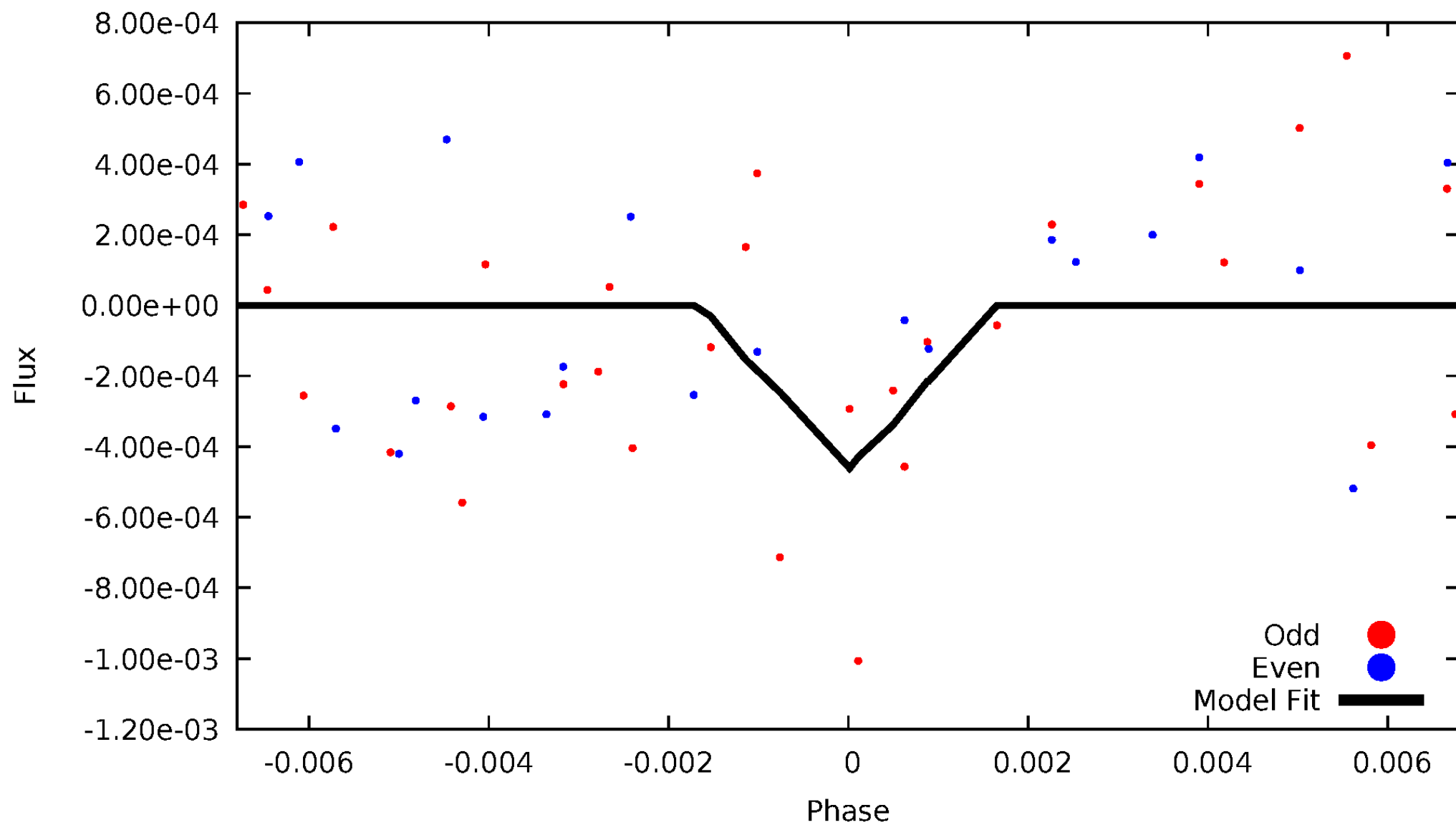
DV Odd/Even

TCE 005025217-08



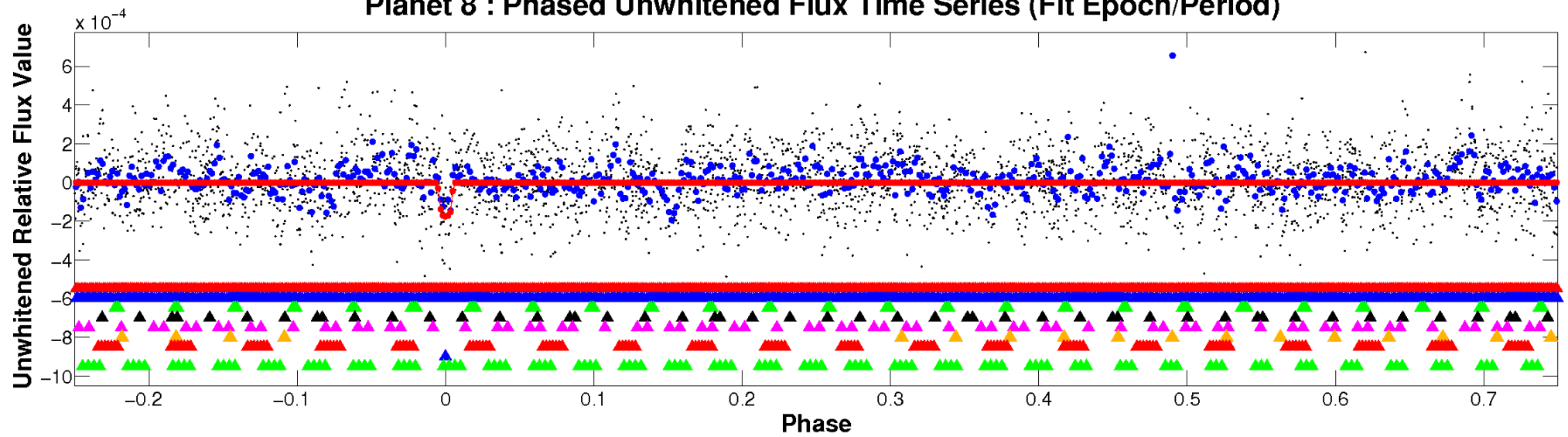
ALT Odd/Even

TCE 005025217-08

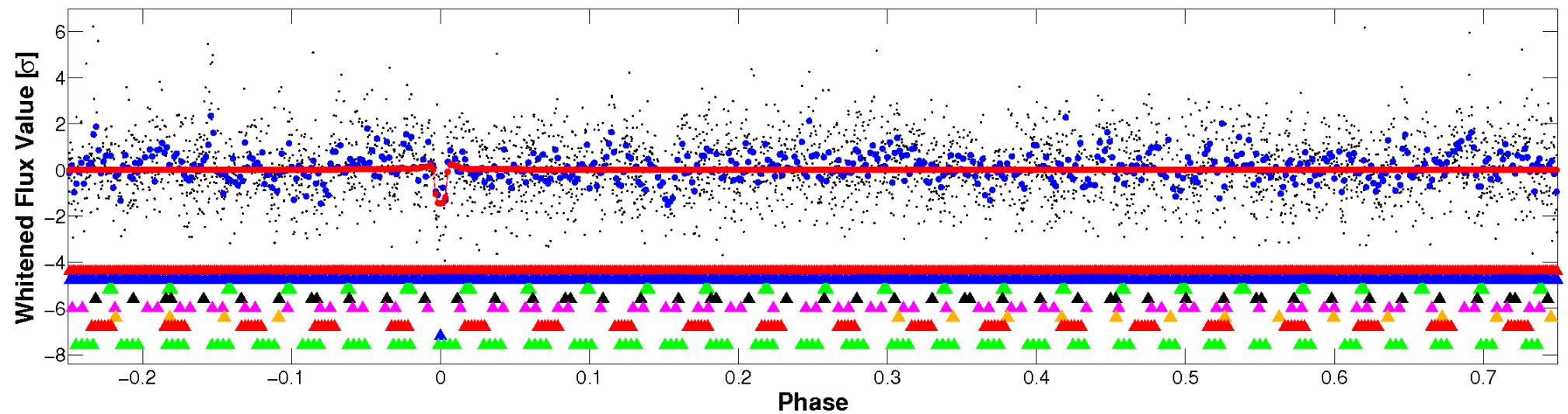


Non-Whitened Vs. Whitened Light Curve

Planet 8 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

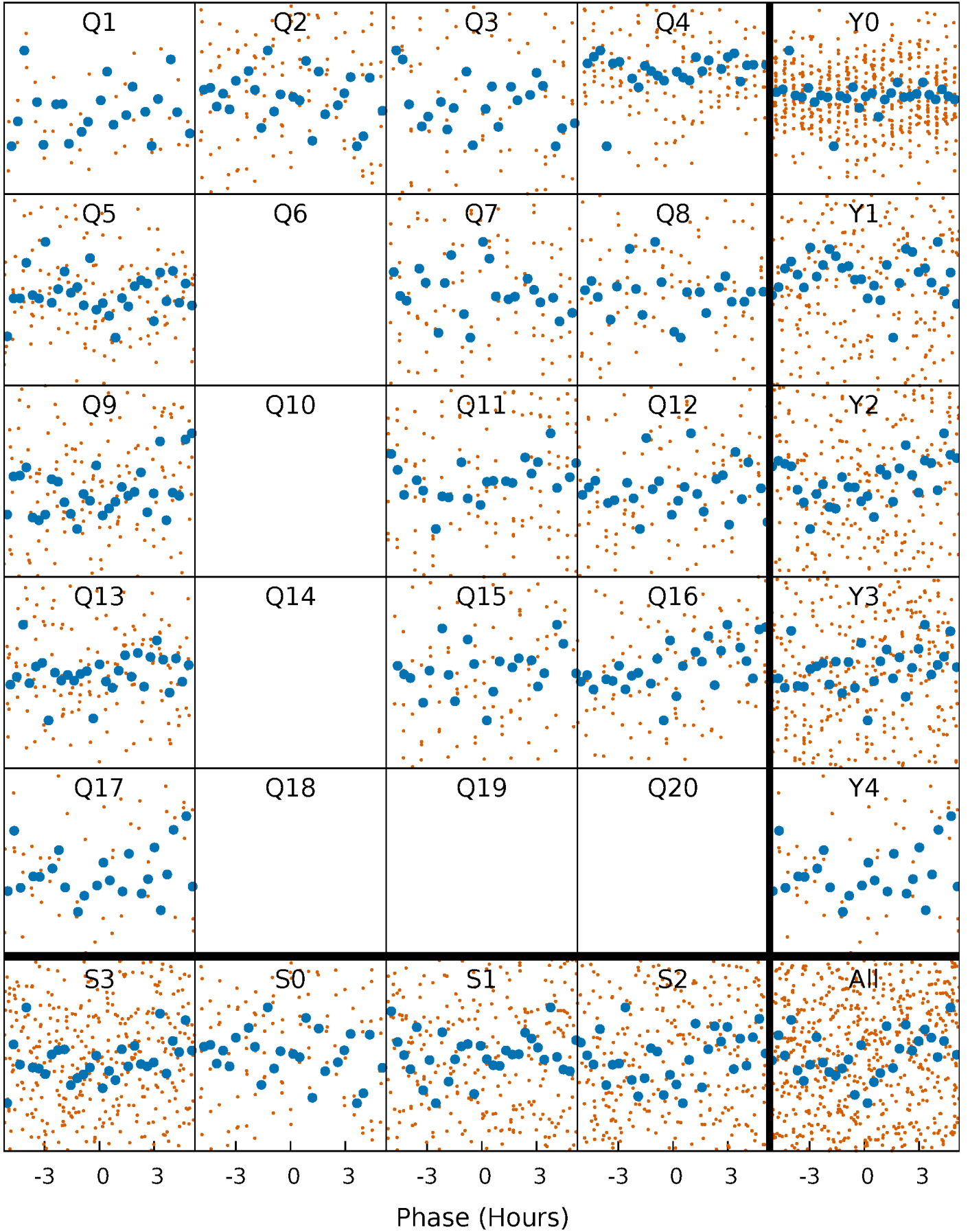


Planet 8 : Phased Whitened Flux Time Series (Fit Epoch/Period)



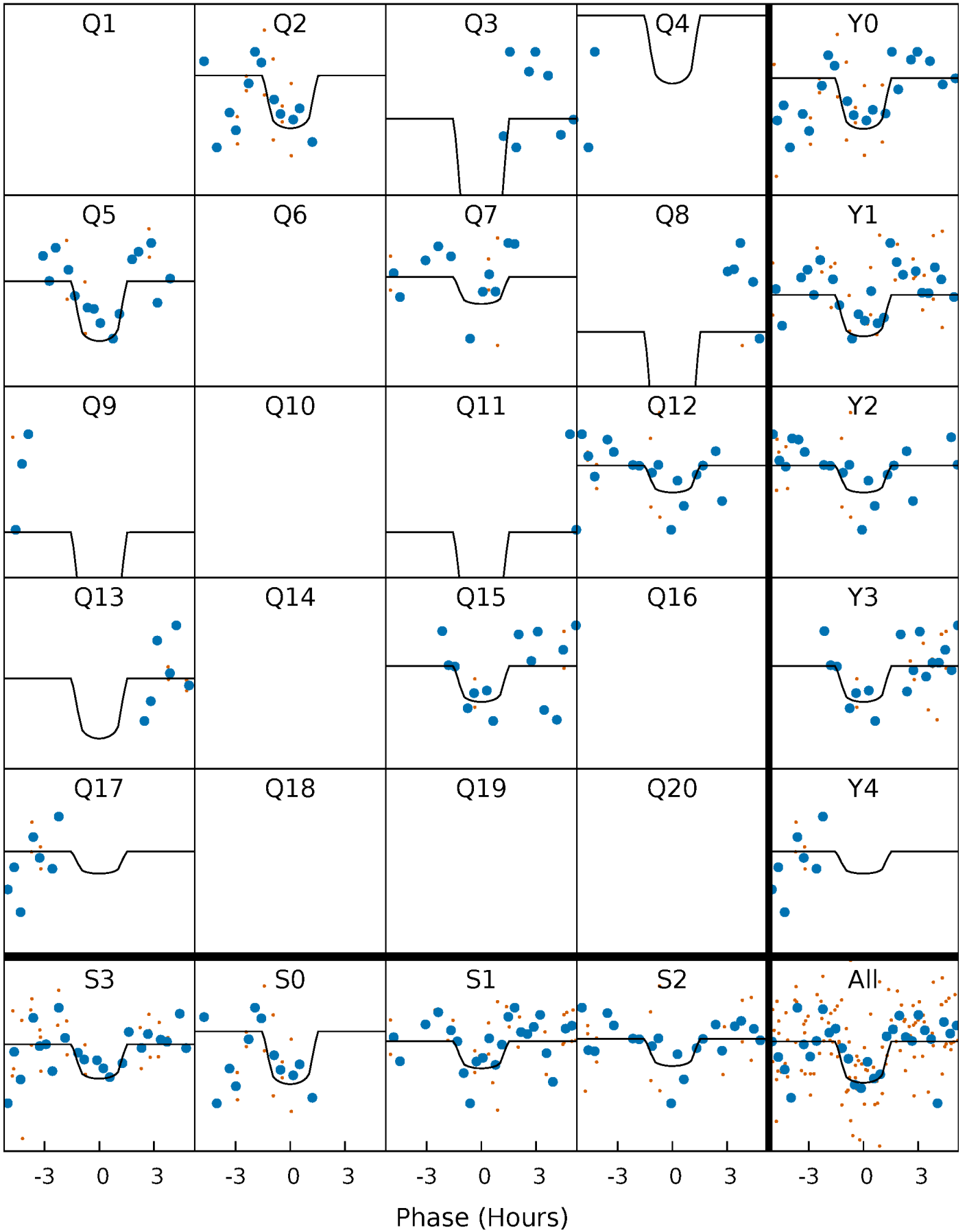
PDC Quarter-Phased Transit Curves

TCE 005025217-08 P= 12.464005 Days $T_0=142.264307$ (BKJD)



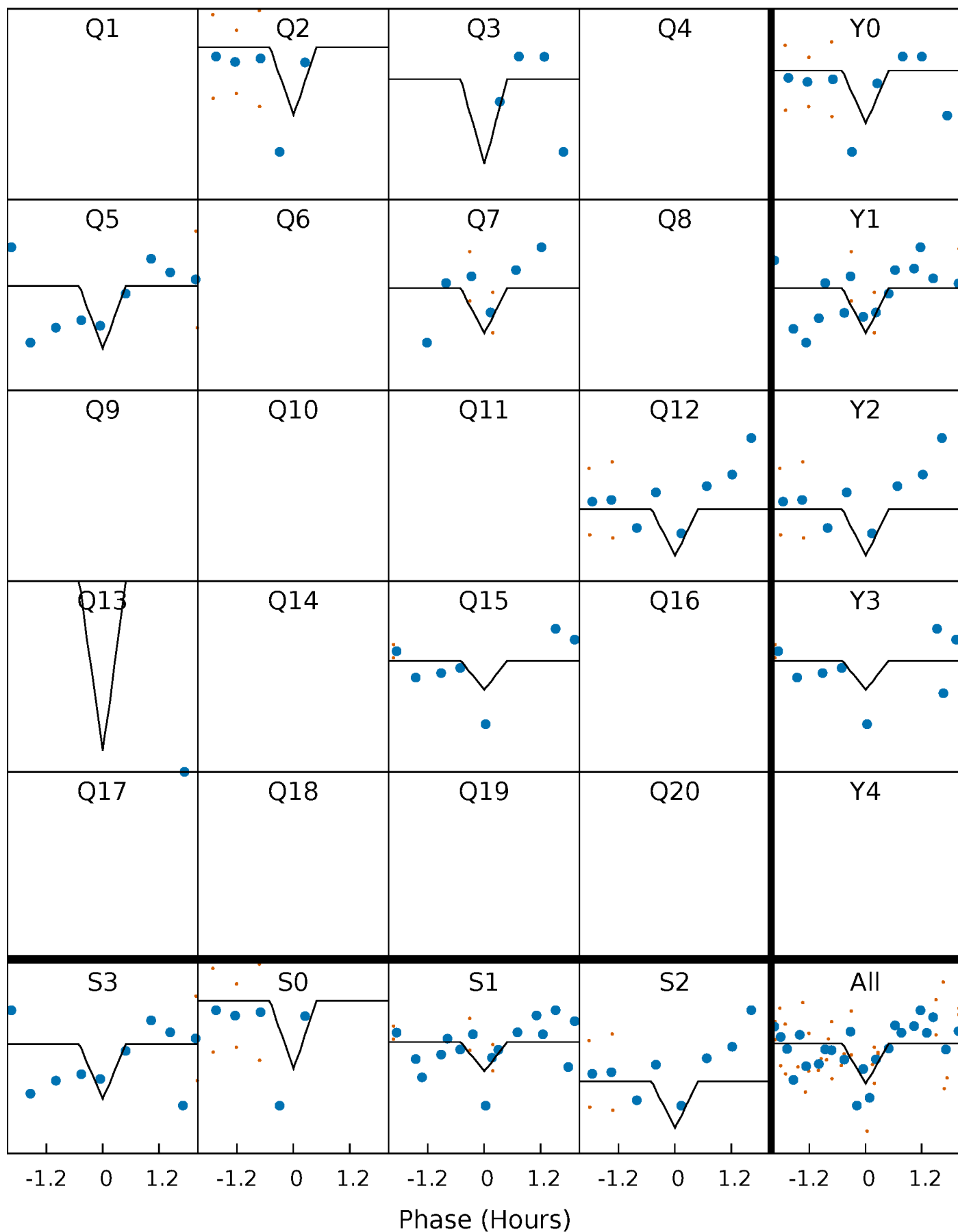
DV Quarter-Phased Transit Curves

TCE 005025217-08 P= 12.464005 Days $T_0=142.264307$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

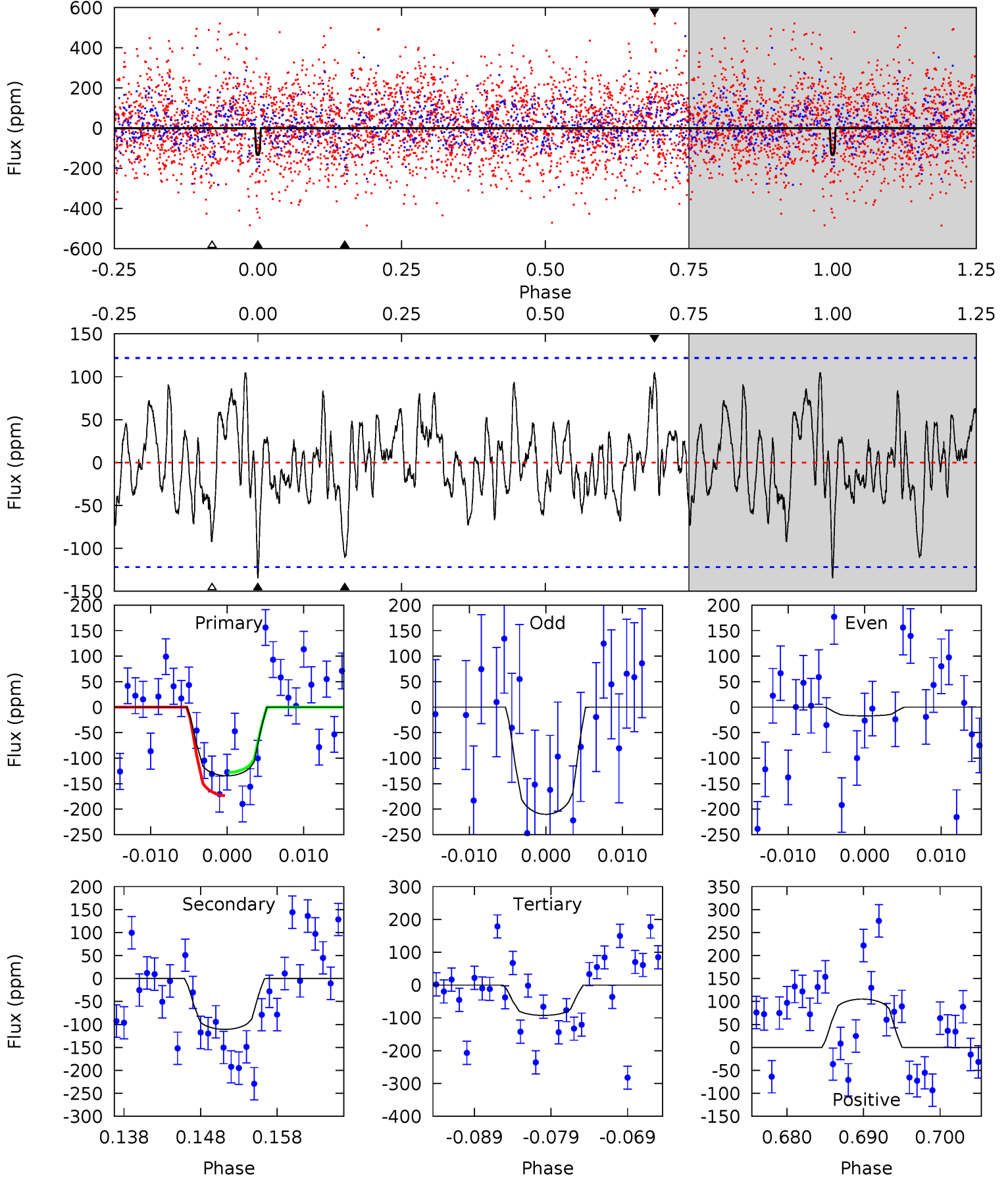
TCE 005025217-08 P= 12.463921 Days $T_0=142.297306$ (BKJD)



DV Model-Shift Uniqueness Test

005025217-08, P = 12.464005 Days, E = 129.800302 Days

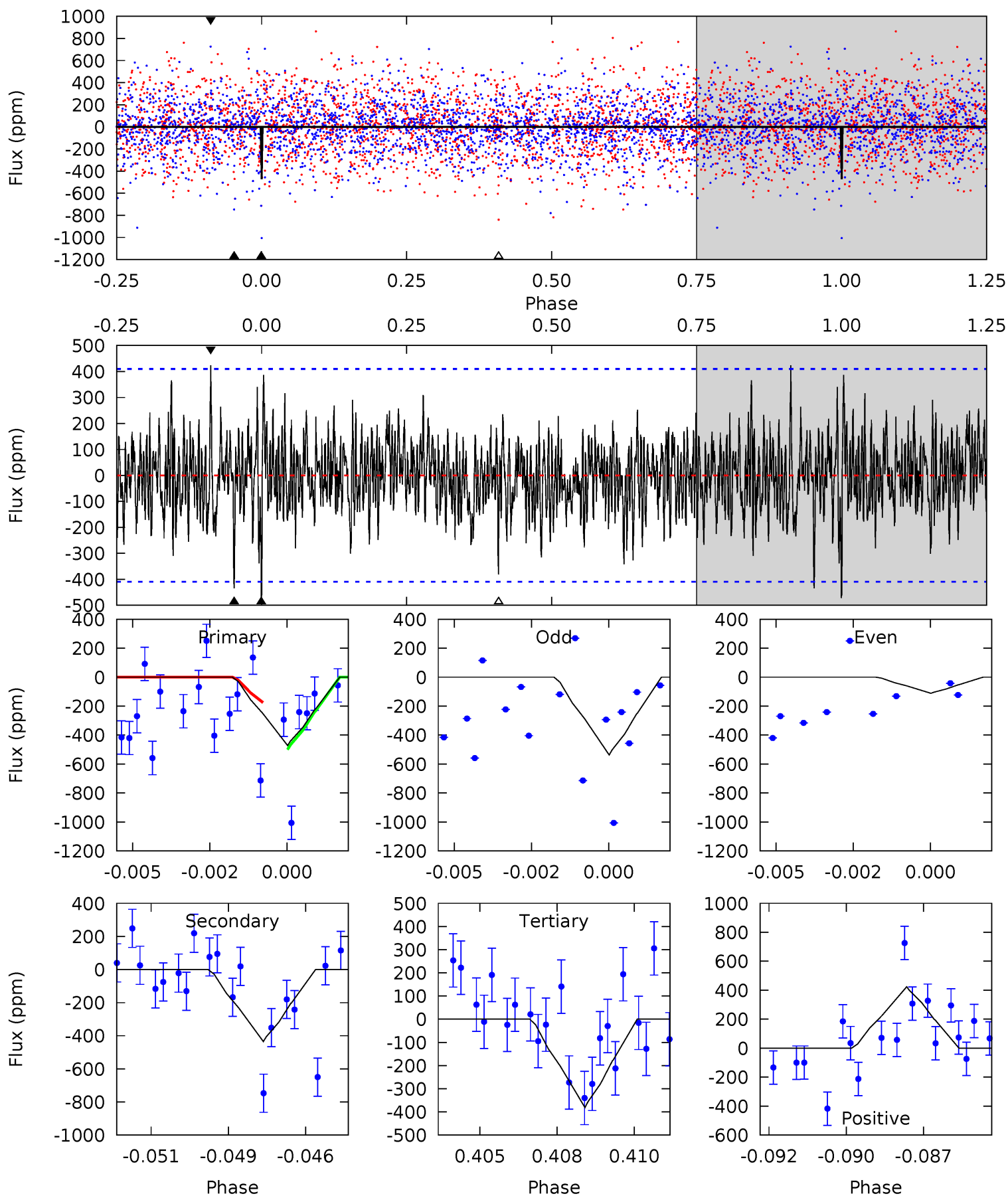
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.56	4.58	3.82	4.34	5.03	2.58	1.49	1.74	1.21	0.76	0.24	4.00	0.52	0.44	0.93



Alt Model-Shift Uniqueness Test

005025217-08, P = 12.463921 Days, E = 129.833385 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.10	5.62	4.93	5.48	5.29	3.03	1.48	1.17	0.62	0.69	0.14	2.25	1.99	0.47	2.07



Stellar Parameters For KIC 005025217

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6286^{+157}_{-188}	$3.056^{+0.435}_{-0.145}$	$-0.500^{+0.350}_{-0.300}$	$7.342^{+1.923}_{-3.572}$	$2.233^{+0.311}_{-0.673}$	$0.008^{+0.034}_{-0.003}$
	+2%/-3%	+14%/-5%	+70%/-60%	+26%/-49%	+14%/-30%	+425%/-42%
Source	PHO1	FLK73	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 005025217-08 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-111 ± 24	$10.98^{+11.96}_{-7.05}$	2774^{+224}_{-350}	5114^{+3960}_{-1223}	$8.512^{+67.039}_{-6.378}$
Alt.	-435 ± 77	$15.37^{+12.33}_{-9.00}$	2762^{+242}_{-331}	6111^{+4380}_{-1350}	18^{+91}_{-13}

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

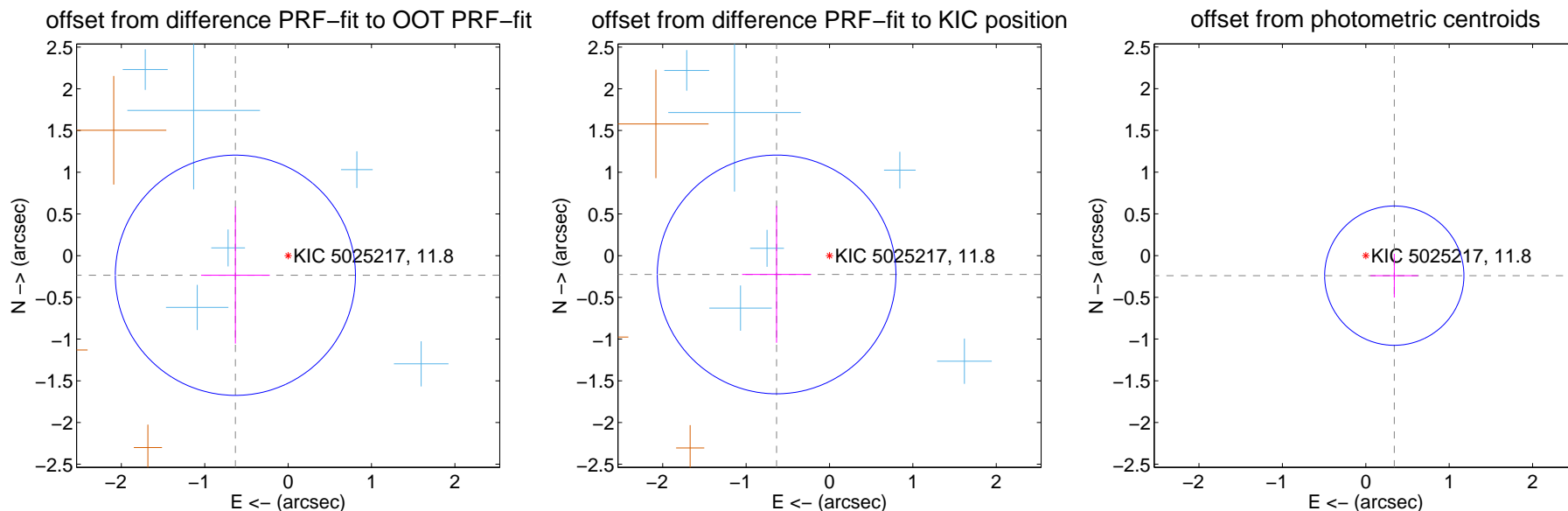
DV Centroid Data

Supplemental centroid analysis for 005025217-08. **Kepler magnitude: 11.80.** Transit SNR 7.31

There are 8 quarters with good PRF difference image offsets

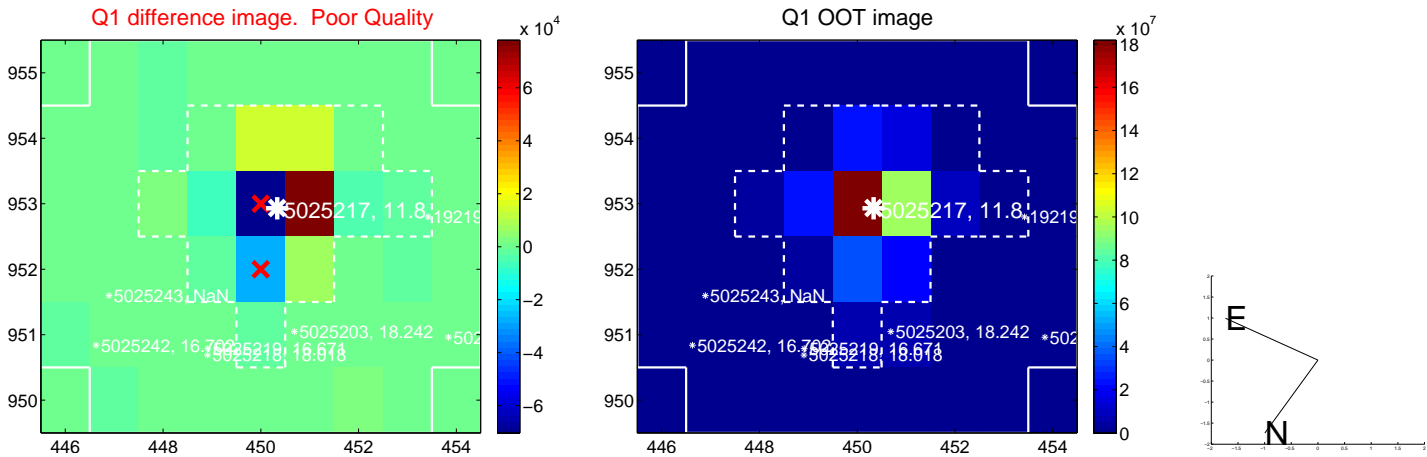
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.675 ± 0.480	1.41	0.633 ± 0.412	-0.235 ± 0.819
PRF-fit source offset from KIC position	0.673 ± 0.477	1.41	0.634 ± 0.414	-0.225 ± 0.819
photometric centroid source offset	0.42 ± 0.28	1.50	-0.34 ± 0.29	-0.24 ± 0.26

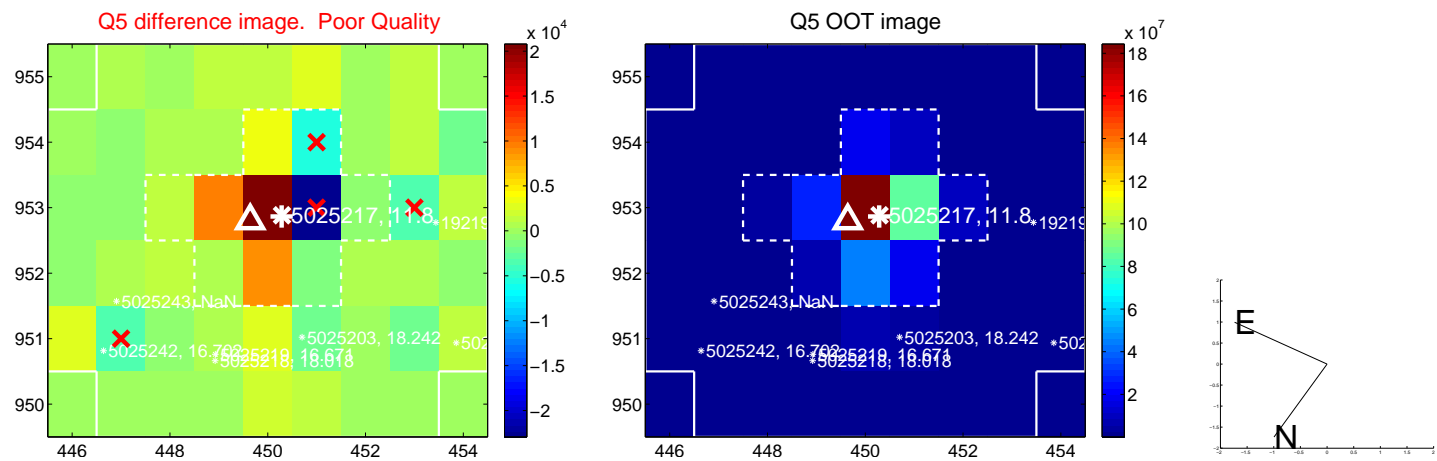


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

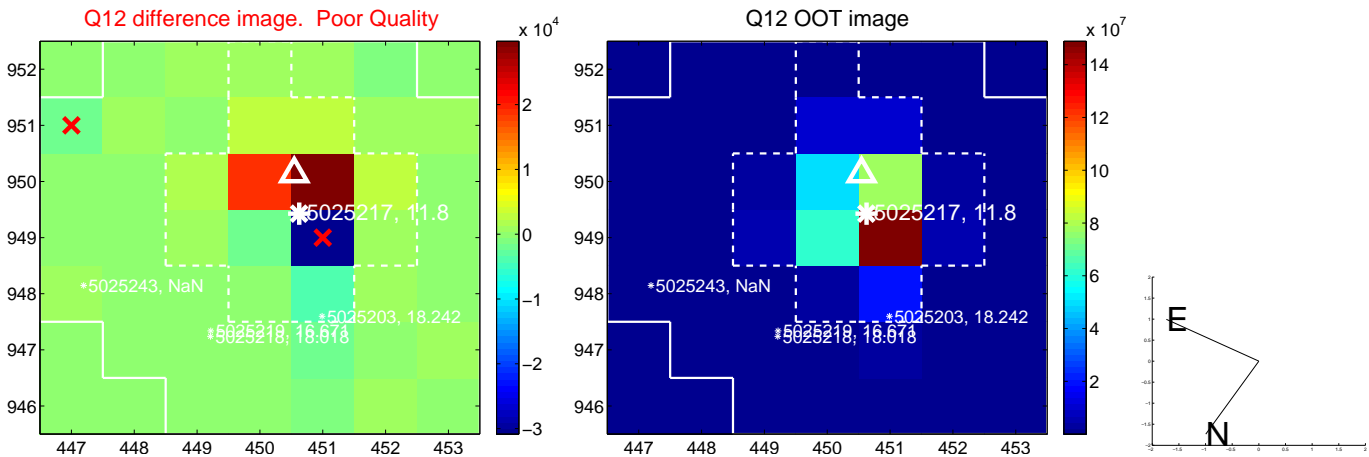
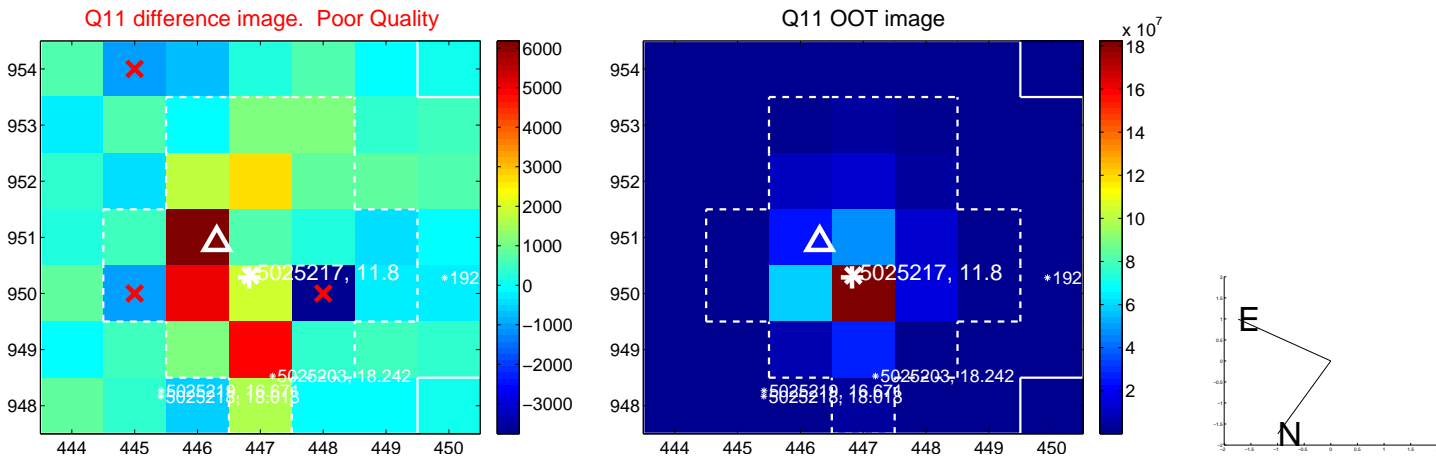
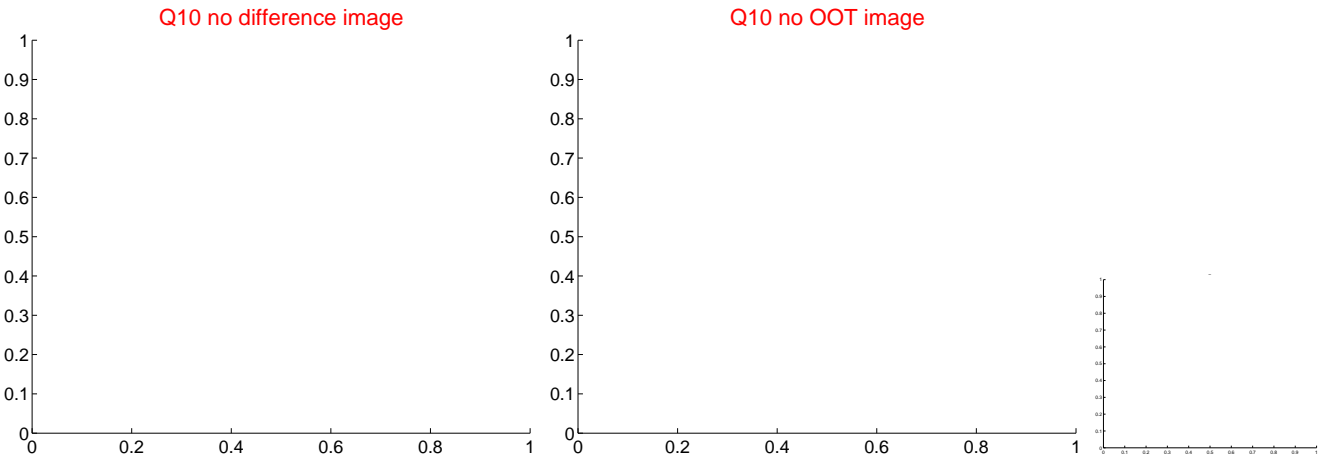
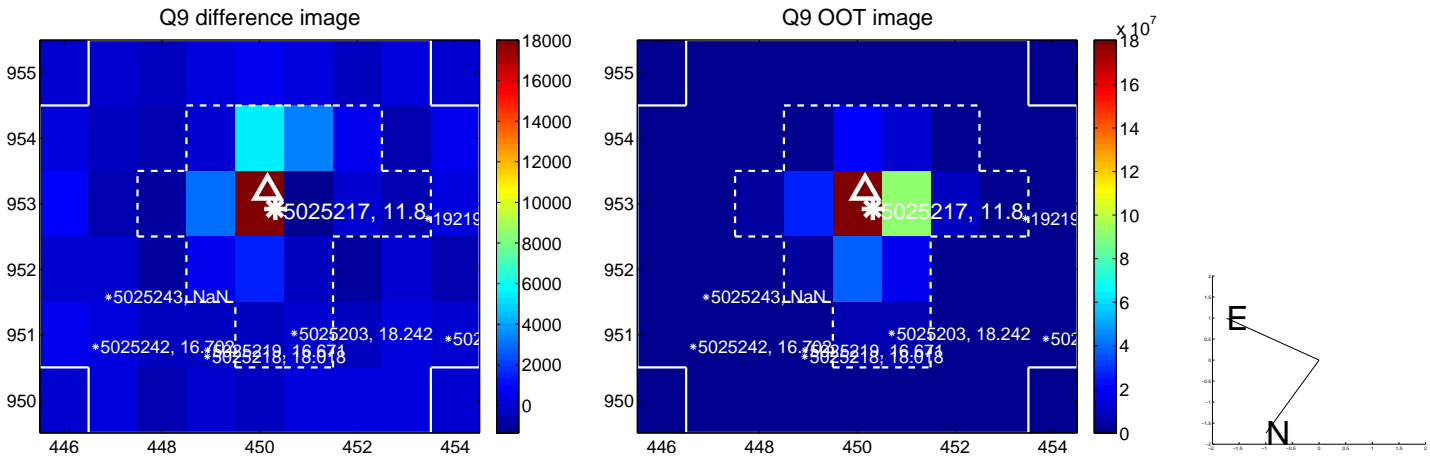
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



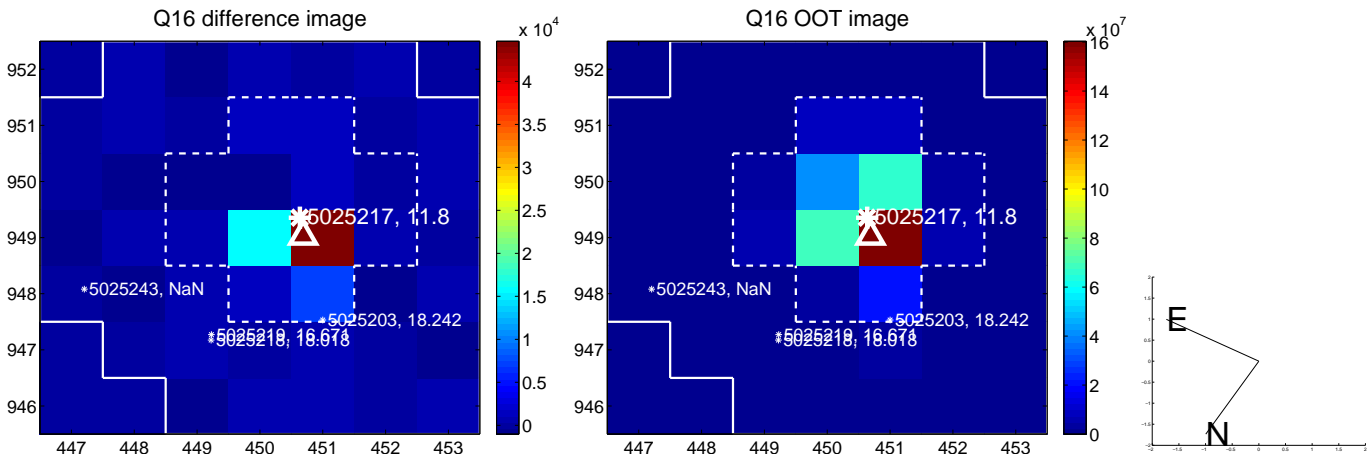
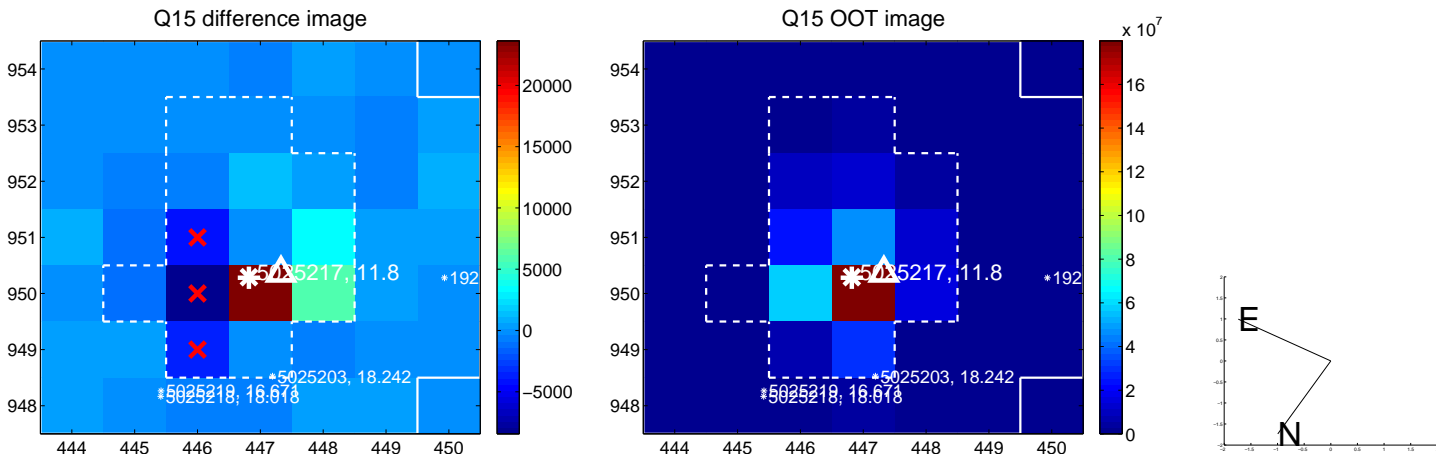
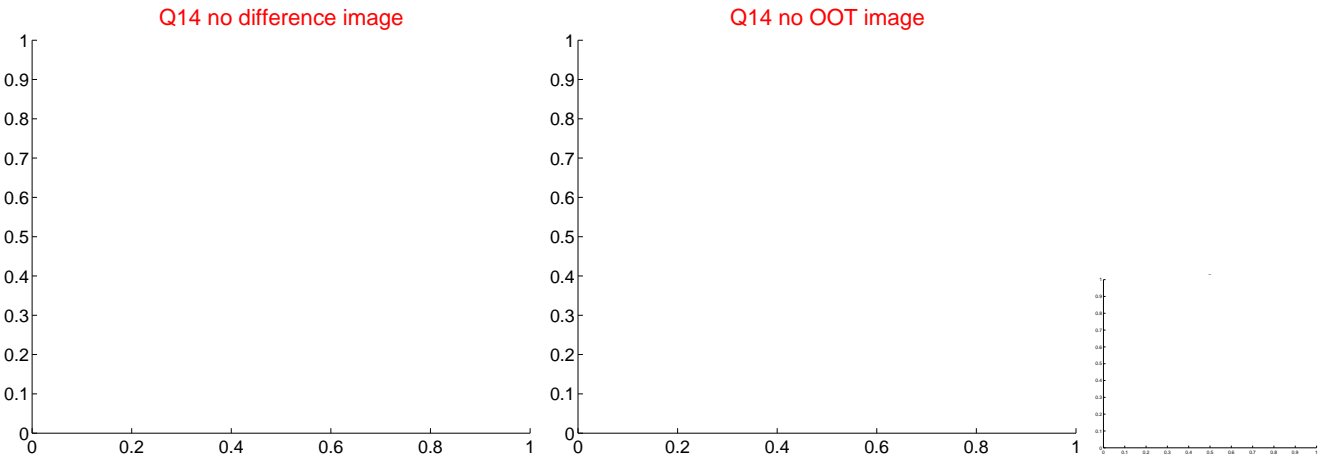
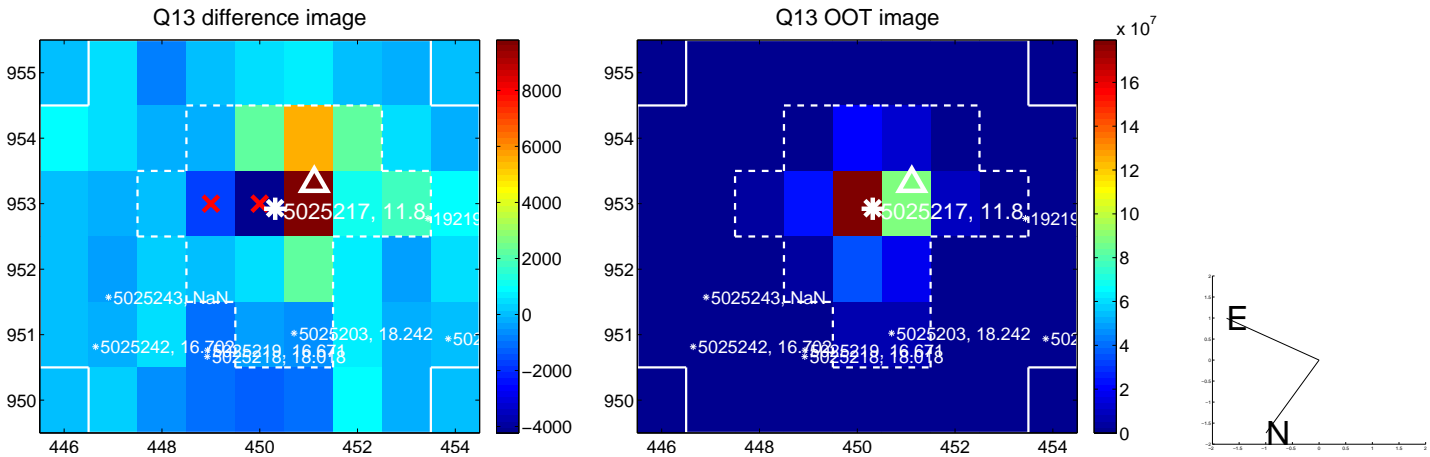
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



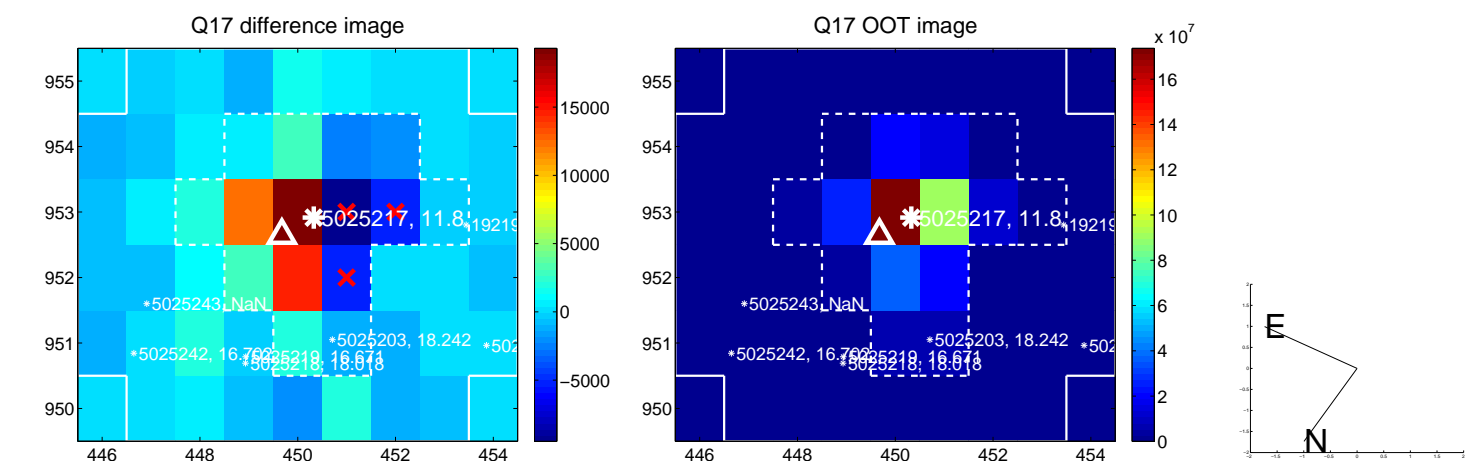
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



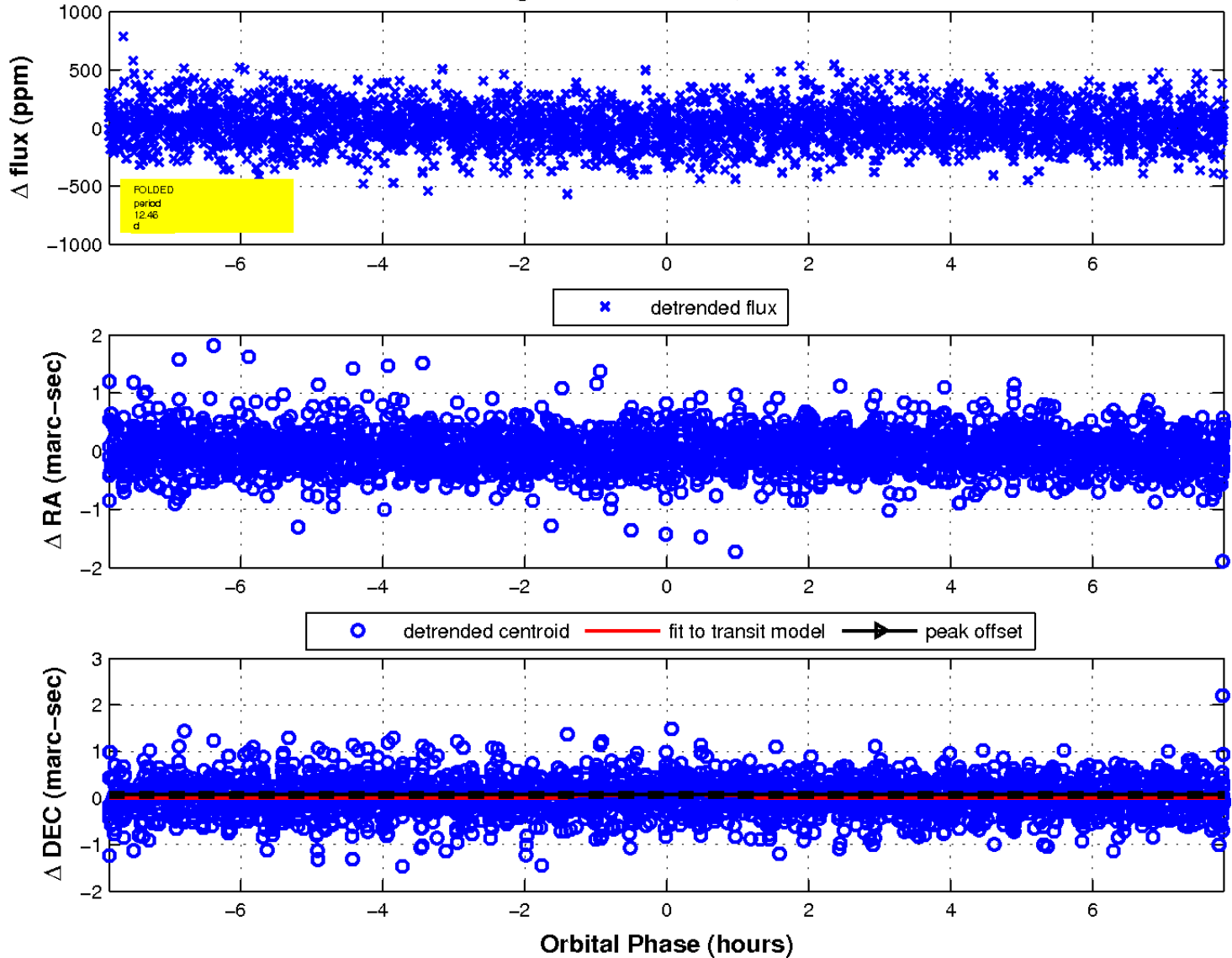
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

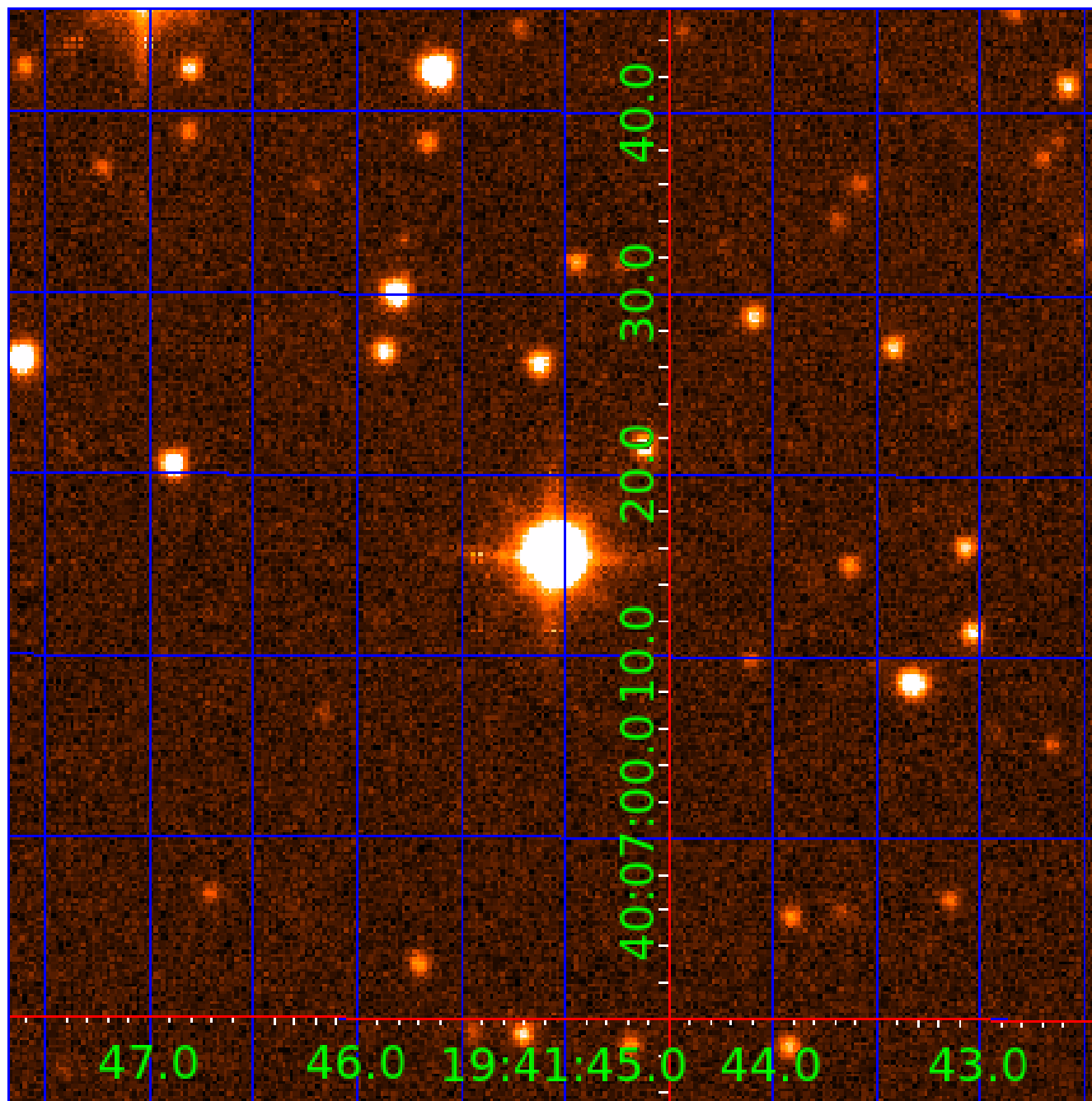


fluxWeightedCentroids, Planet 8 of 9



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KIC 005025217

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})
005025217-01	OBS	6496.01	1.787604	132.417372	26.4	6.928	10.2	7.7	7.34	6286	4.55	53036.26
005025217-02	OBS	No	1.787610	131.532827	43.6	5.860	10.5	11.1	7.34	6286	7.98	53036.05
005025217-03	OBS	No	18.447369	148.951248	218.2	8.613	9.2	8.9	7.34	6286	12.39	2360.60
005025217-04	OBS	No	29.489063	159.114814	255.0	5.450	9.3	7.6	7.34	6286	15.32	1262.95
005025217-05	OBS	No	19.418689	137.006080	201.0	8.561	8.8	8.4	7.34	6286	11.88	2204.49
005025217-06	OBS	No	86.793263	178.302201	475.1	4.020	8.5	8.4	7.34	6286	18.10	299.42
005025217-07	OBS	No	10.595765	139.960544	215.0	1.911	8.0	7.8	7.34	6286	12.51	4944.15
005025217-08	OBS	No	12.464005	142.264307	176.1	2.619	8.0	7.3	7.34	6286	10.22	3981.60
005025217-09	OBS	No	12.084867	134.855286	99.8	3.500	7.9	-1.0	7.34	6286	7.37	4149.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005025217-01	OBS	FP	0.00	1	0	0	0	LPP_DV
005025217-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005025217-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005025217-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005025217-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005025217-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_NOFITS

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

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

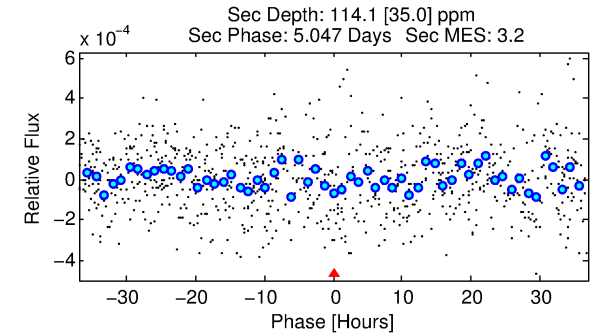
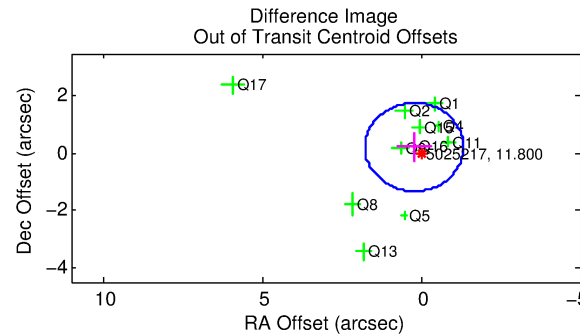
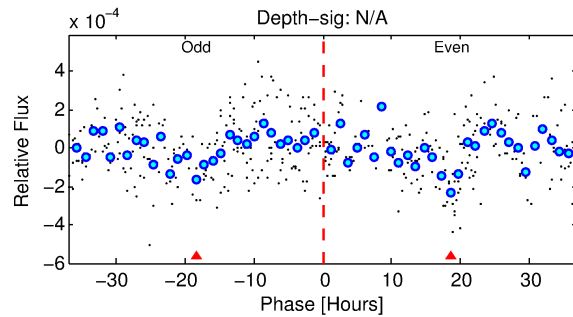
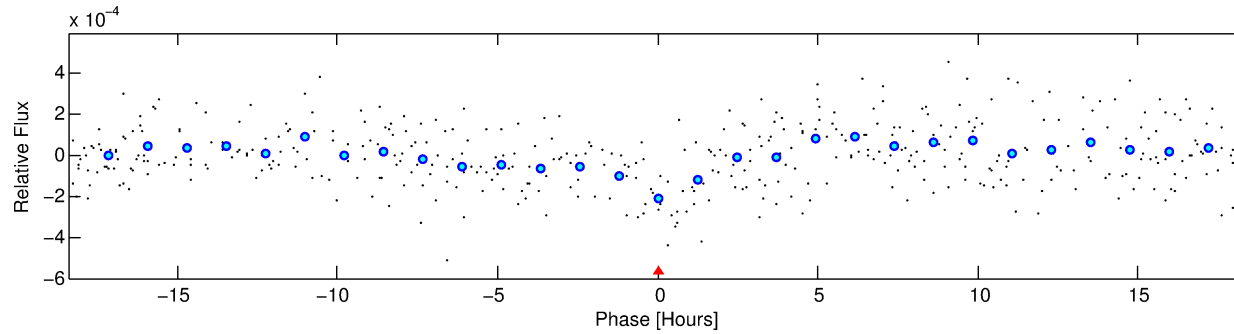
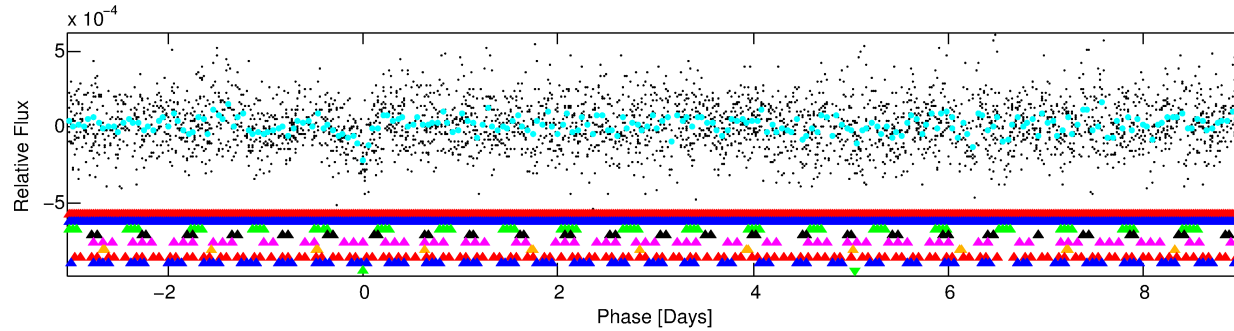
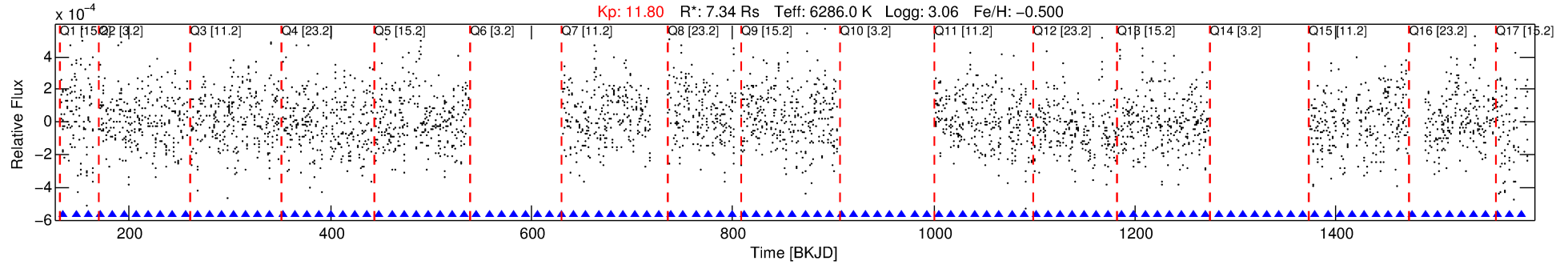
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005025217-09

No Significant Match Found

DV One-Page Summary

KIC: 5025217 Candidate: 9 of 9 Period: 12.085 d
KOI: K06496 Corr: No Ephemeris Match



TPS TCE Results:

Period = 12.08487 d
Epoch = 134.8553 BKJD

DV fit results are unavailable

DV Diagnostic Results:

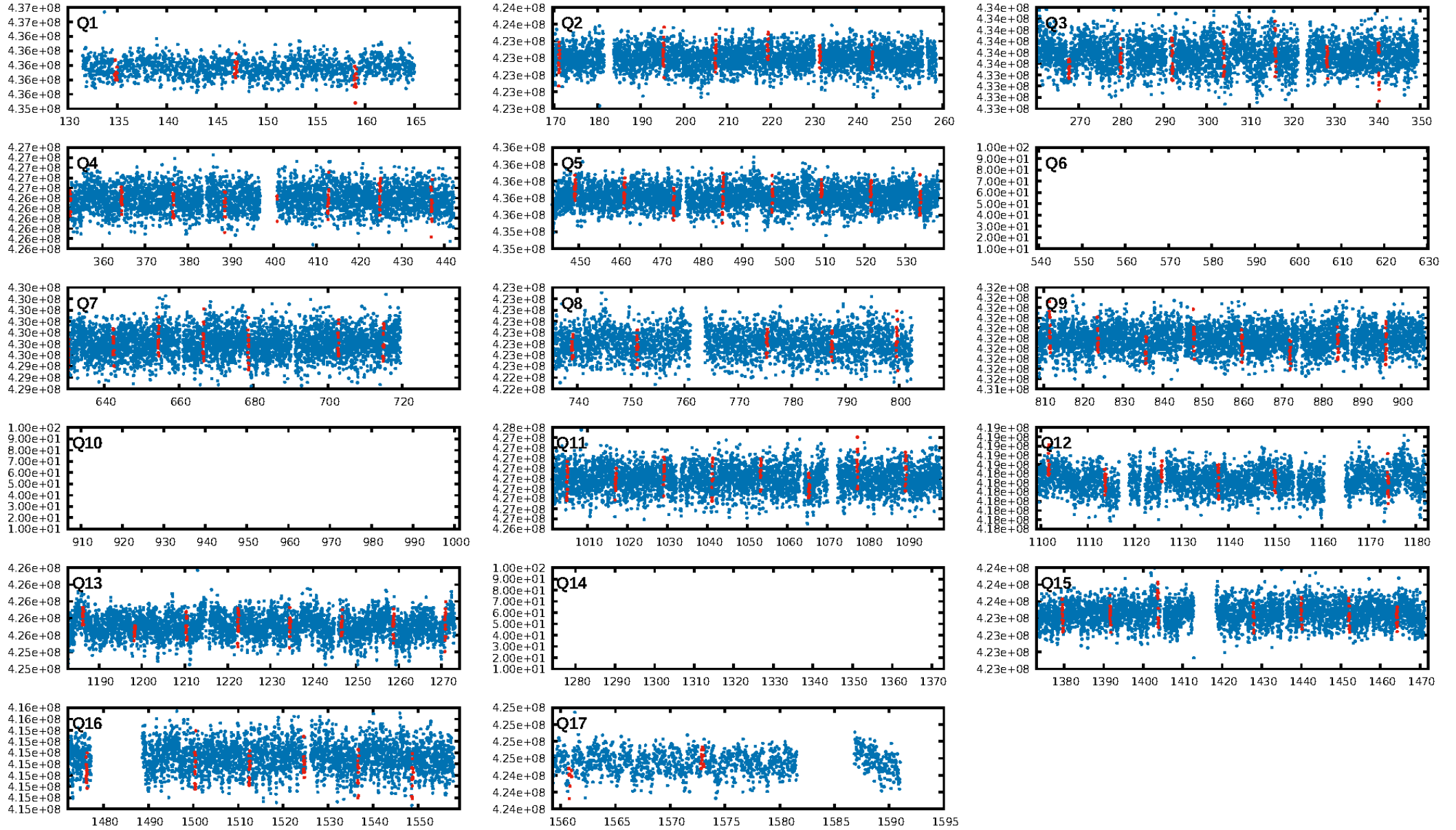
ShortPeriod-sig: 100.0% [8.96 σ]
LongPeriod-sig: 96.3% [2.08 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [27/27]
GhostDiagnostic-chr: 0.3876

Centroid-sig: N/A
Centroid-so: 0.101 arcsec [0.90 σ]
OotOffset-rm: 0.312 arcsec [0.61 σ]
KicOffset-rm: 0.331 arcsec [0.69 σ]
OotOffset-st: 1/2/3/5 [11]
KicOffset-st: 1/2/3/5 [11]
DiffImageQuality-fgm: 0.45 [5/11]
DiffImageOverlap-fno: 0.00 [0/14]

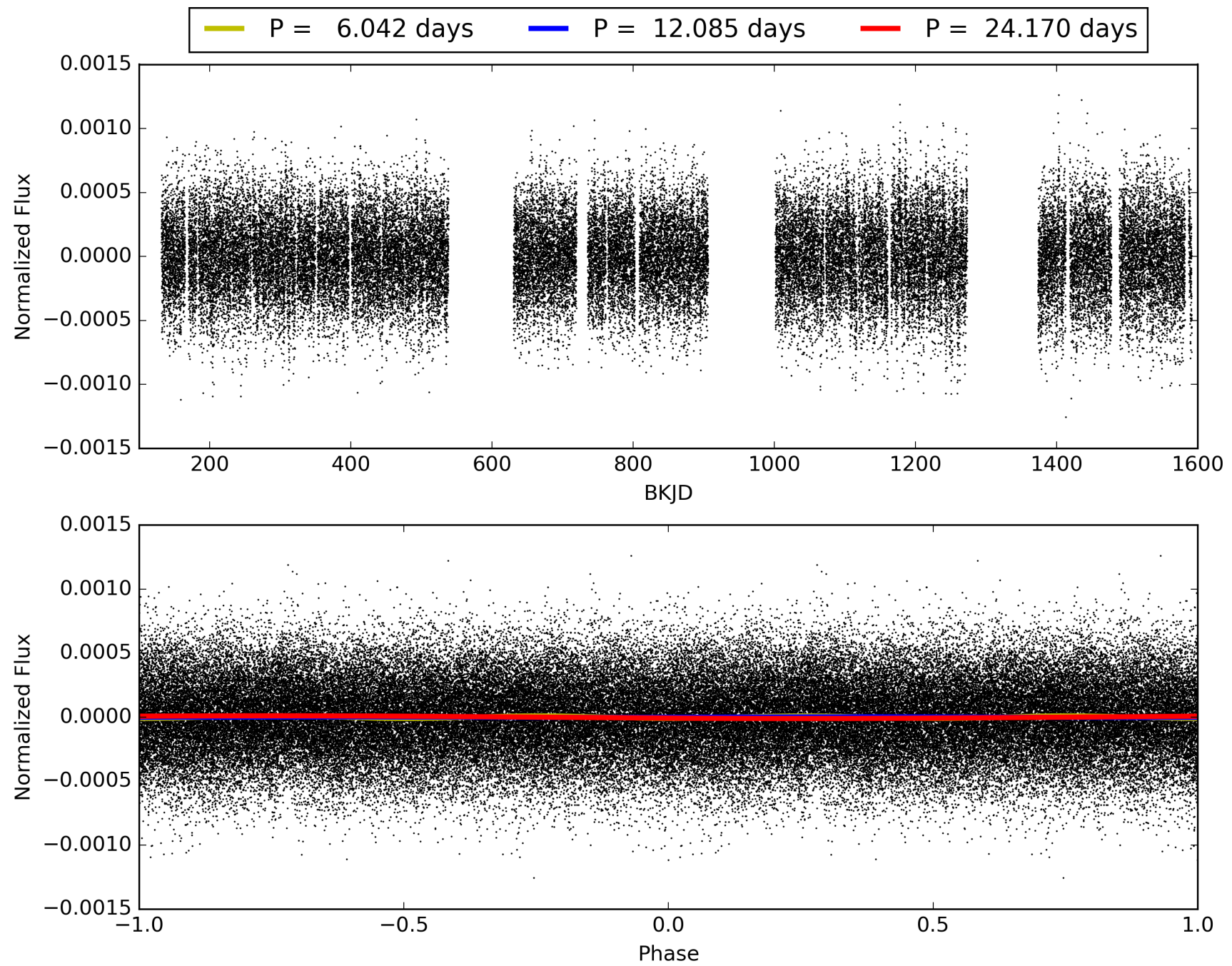
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 06:18:53 Z

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

TCE 005025217-09, PDC Light Curves

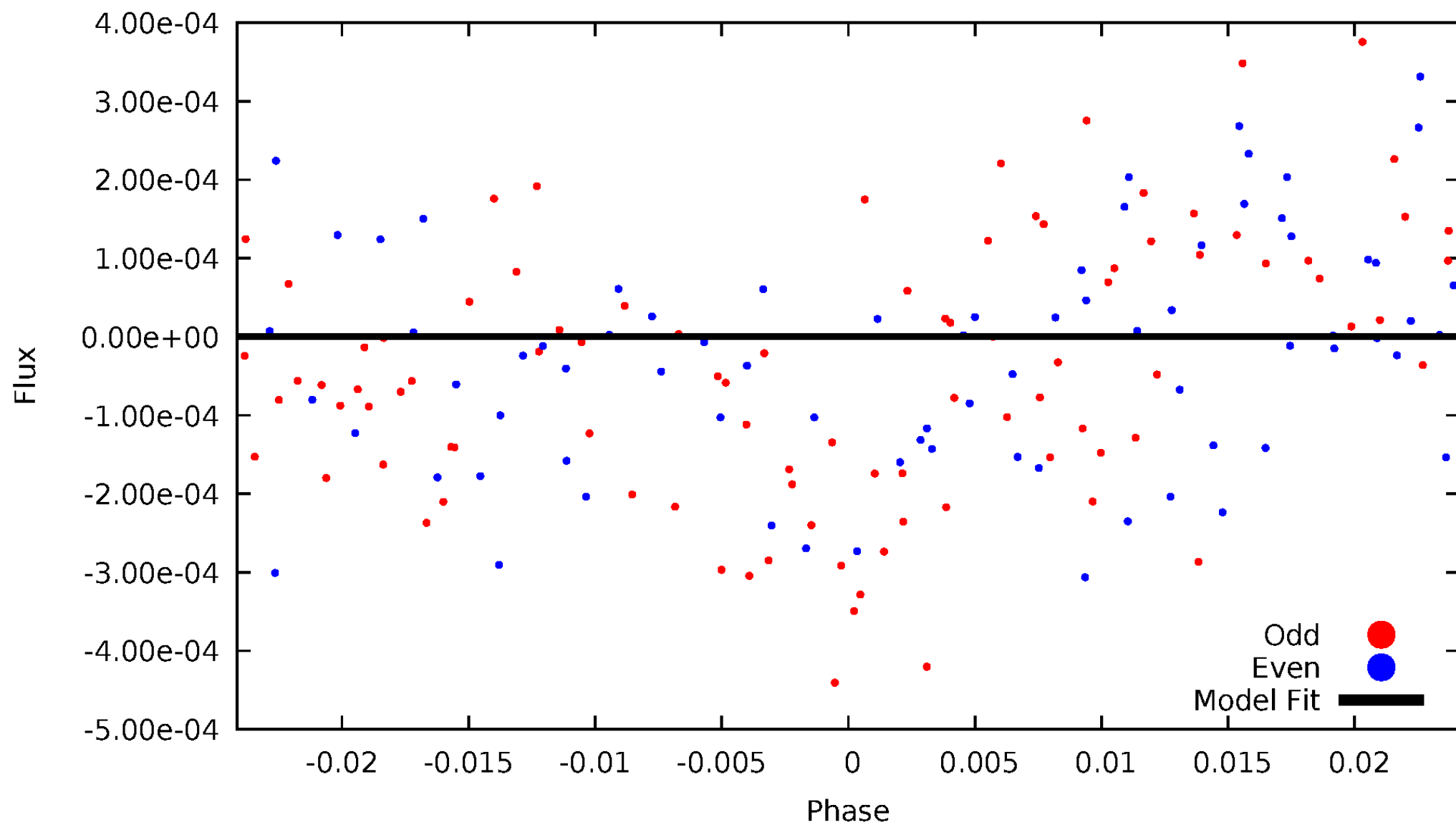


TCE 005025217-09



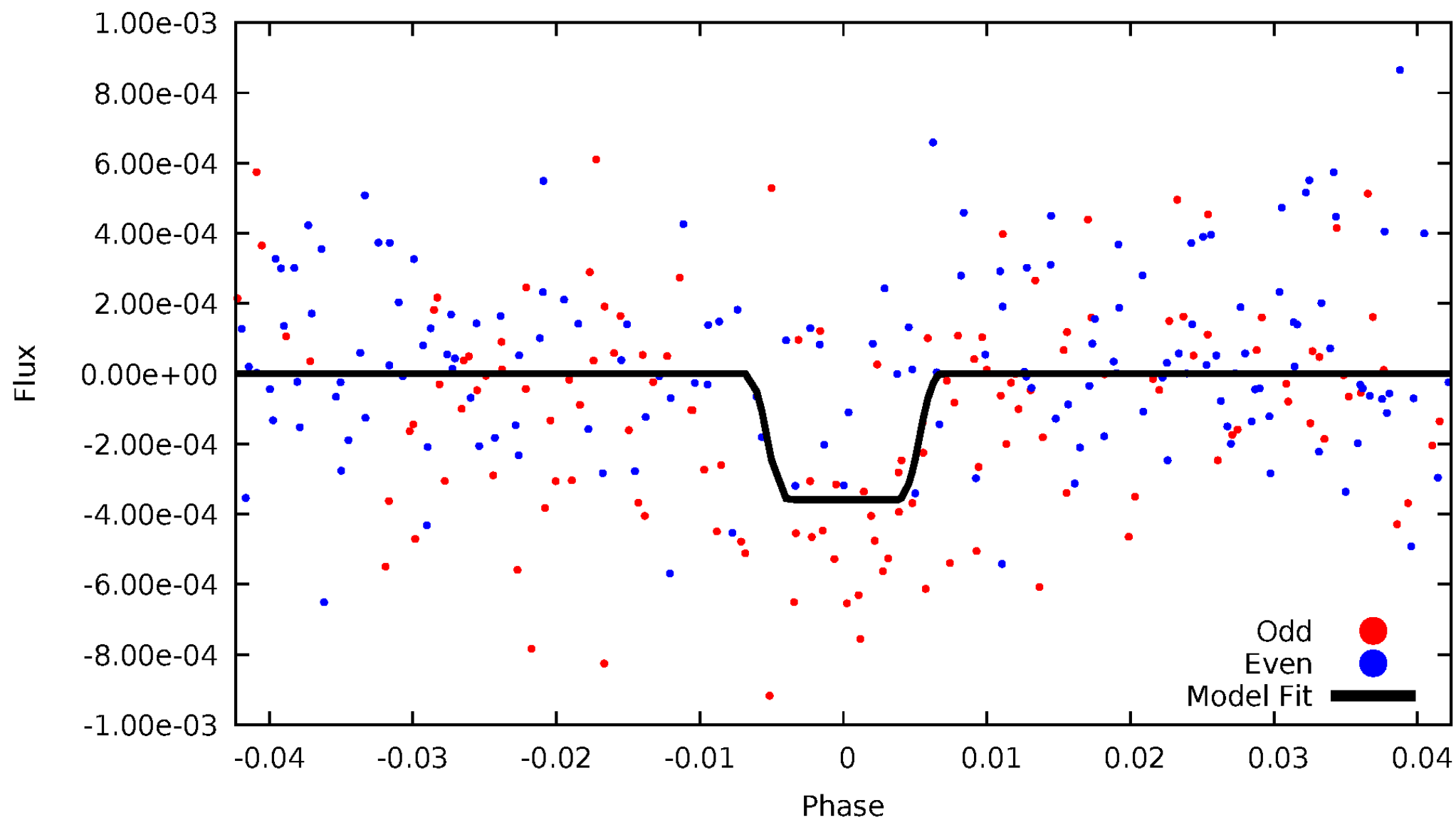
DV Odd/Even

TCE 005025217-09

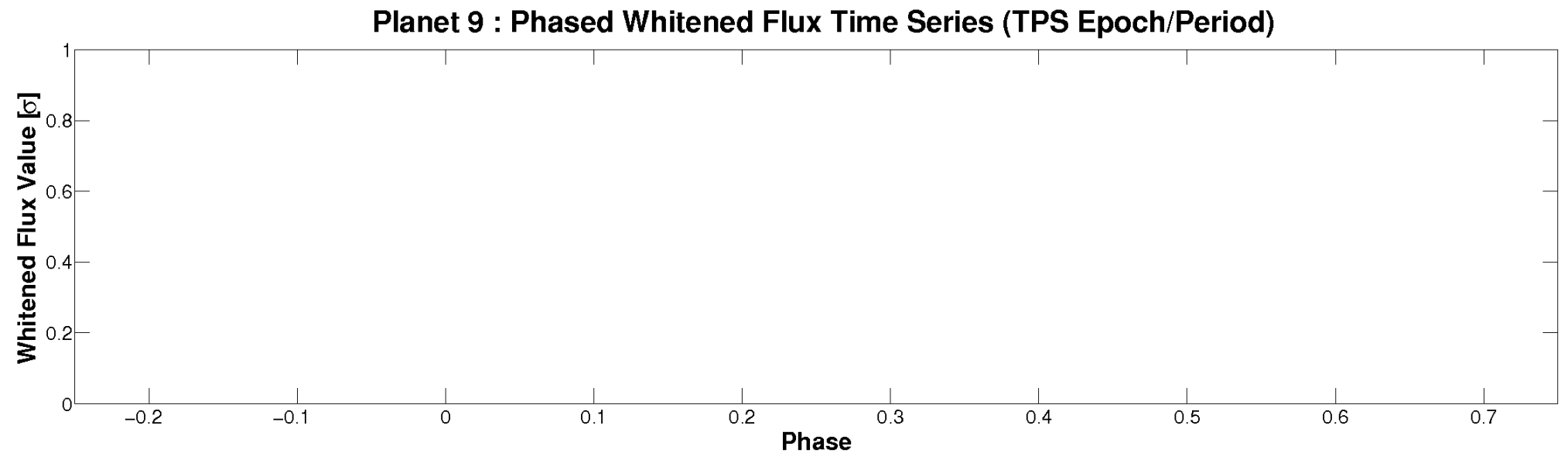
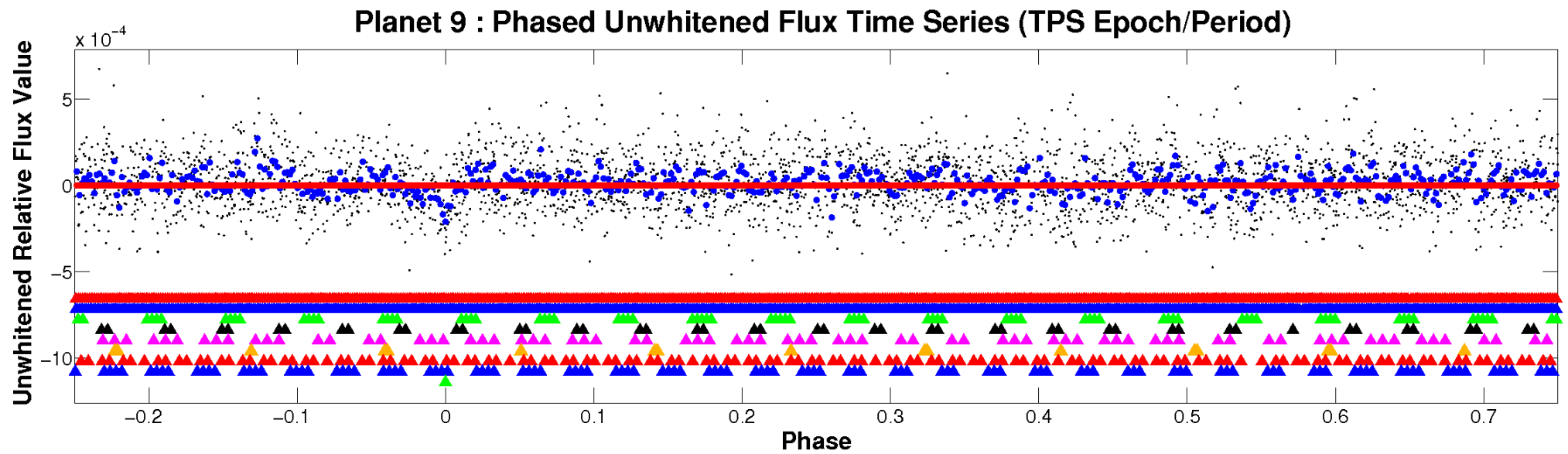


ALT Odd/Even

TCE 005025217-09

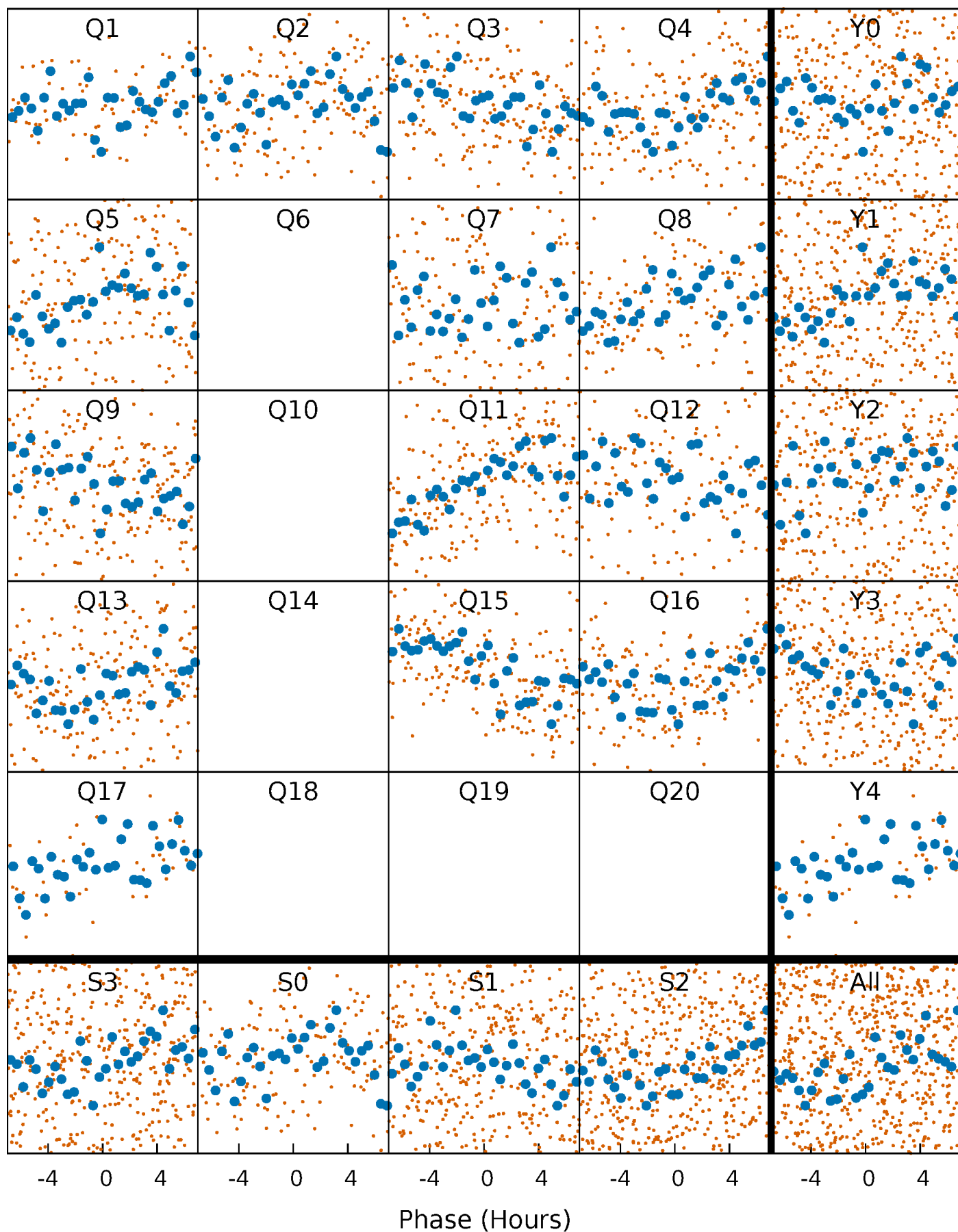


Non-Whitened Vs. Whitened Light Curve



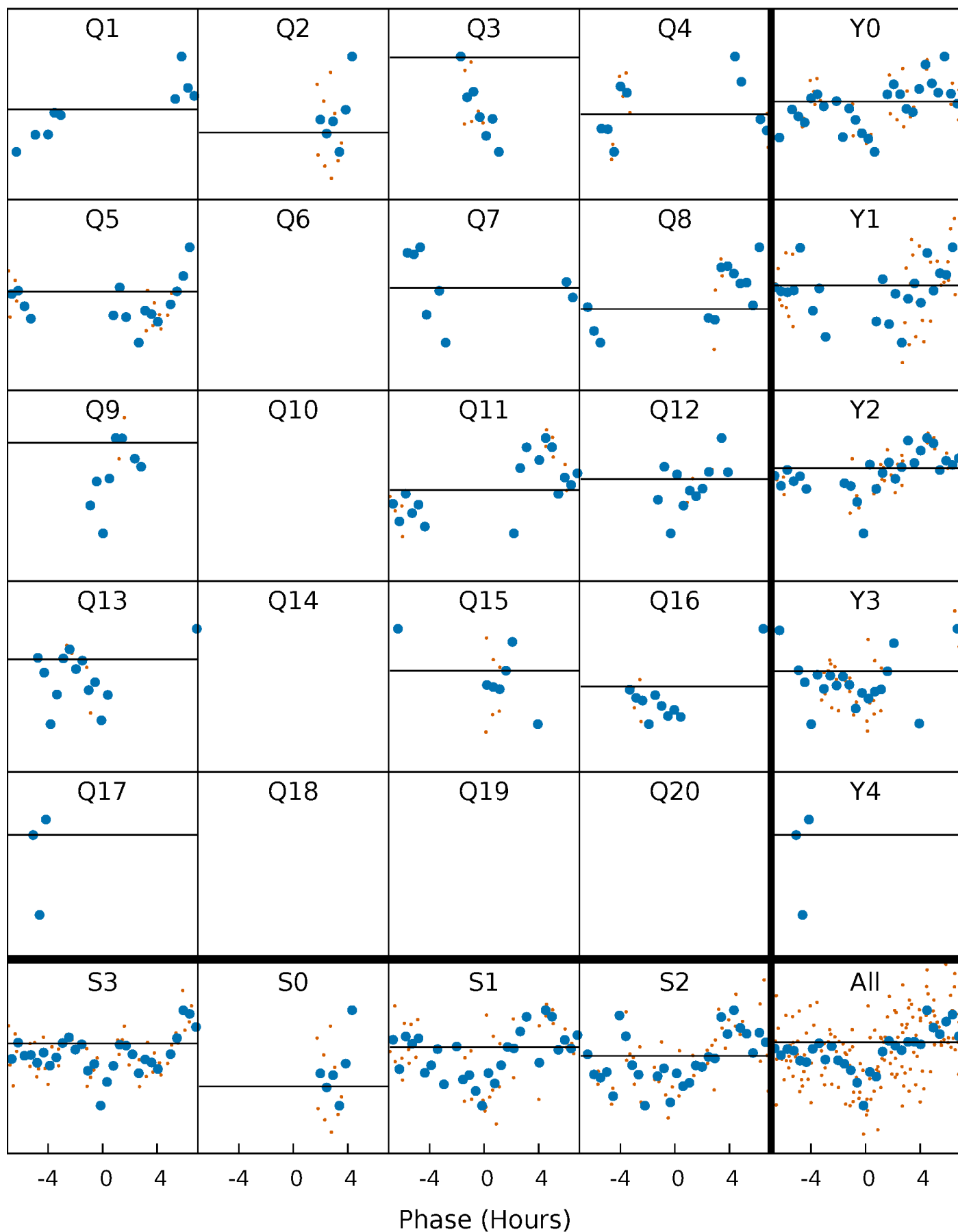
PDC Quarter-Phased Transit Curves

TCE 005025217-09 P= 12.084867 Days $T_0=134.855287$ (BKJD)



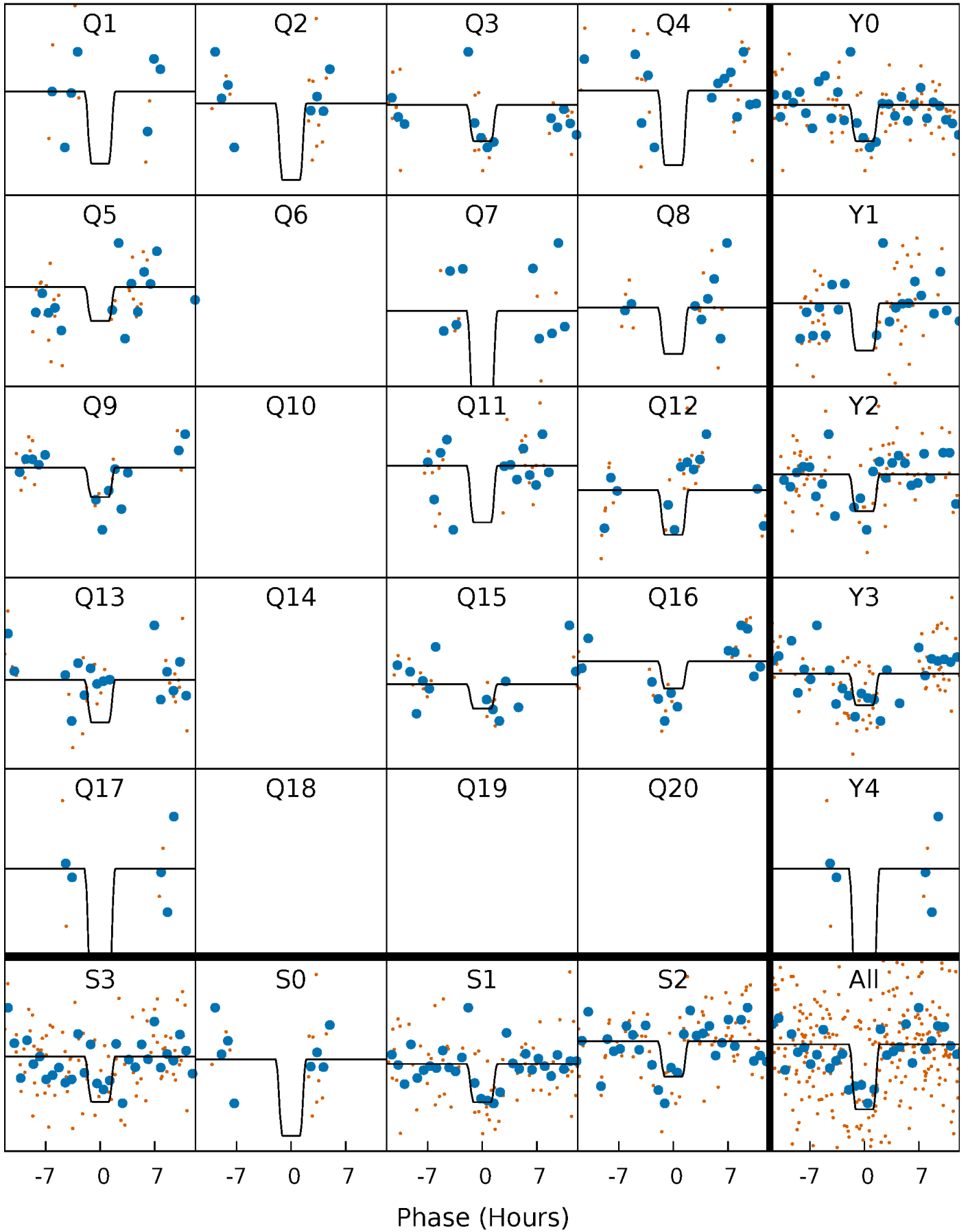
DV Quarter-Phased Transit Curves

TCE 005025217-09 $P = 12.084867$ Days $T_0 = 134.855287$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

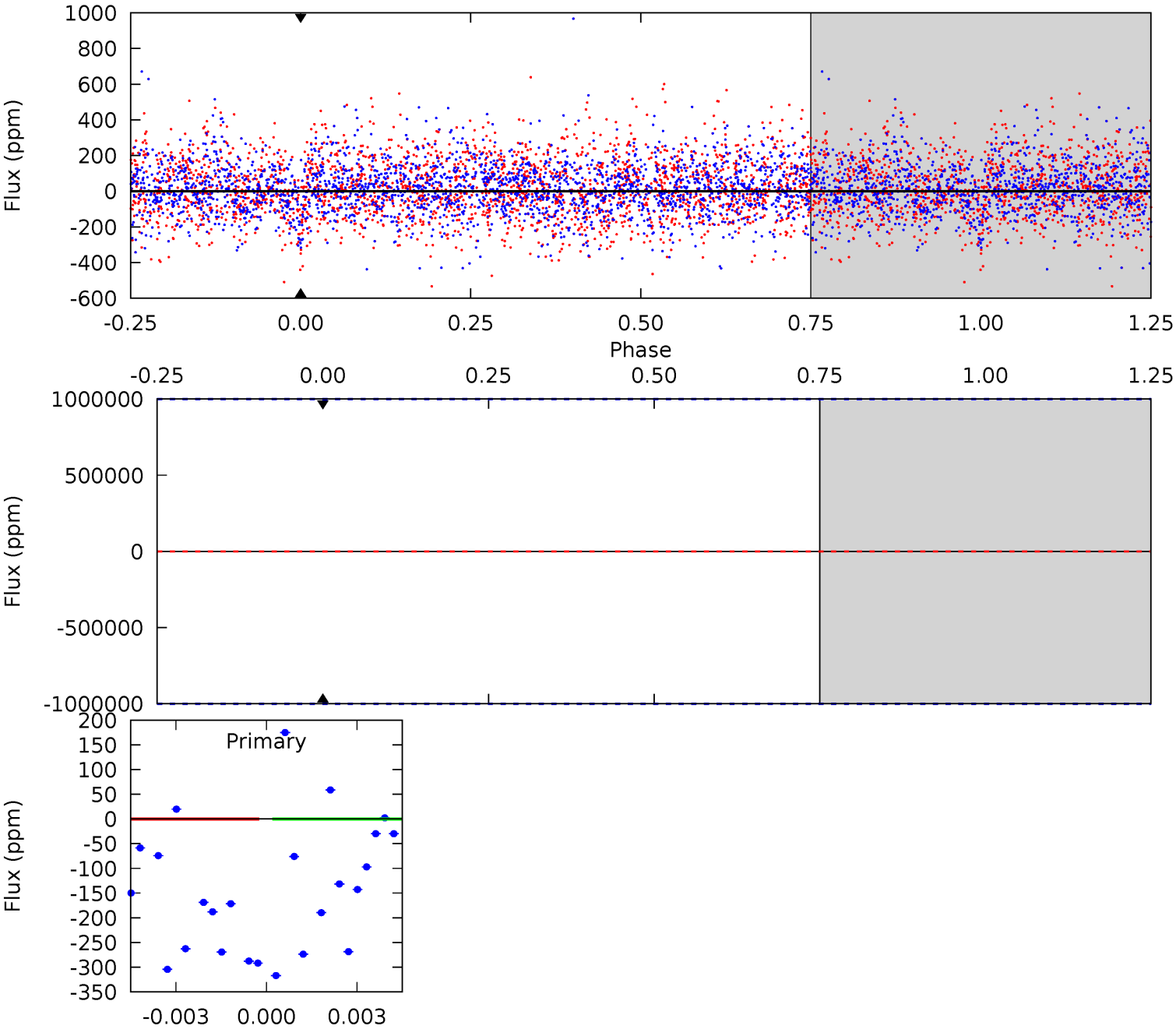
TCE 005025217-09 P= 12.084867 Days $T_0=134.834634$ (BKJD)



DV Model-Shift Uniqueness Test

005025217-09, P = 12.084867 Days, E = 122.770420 Days

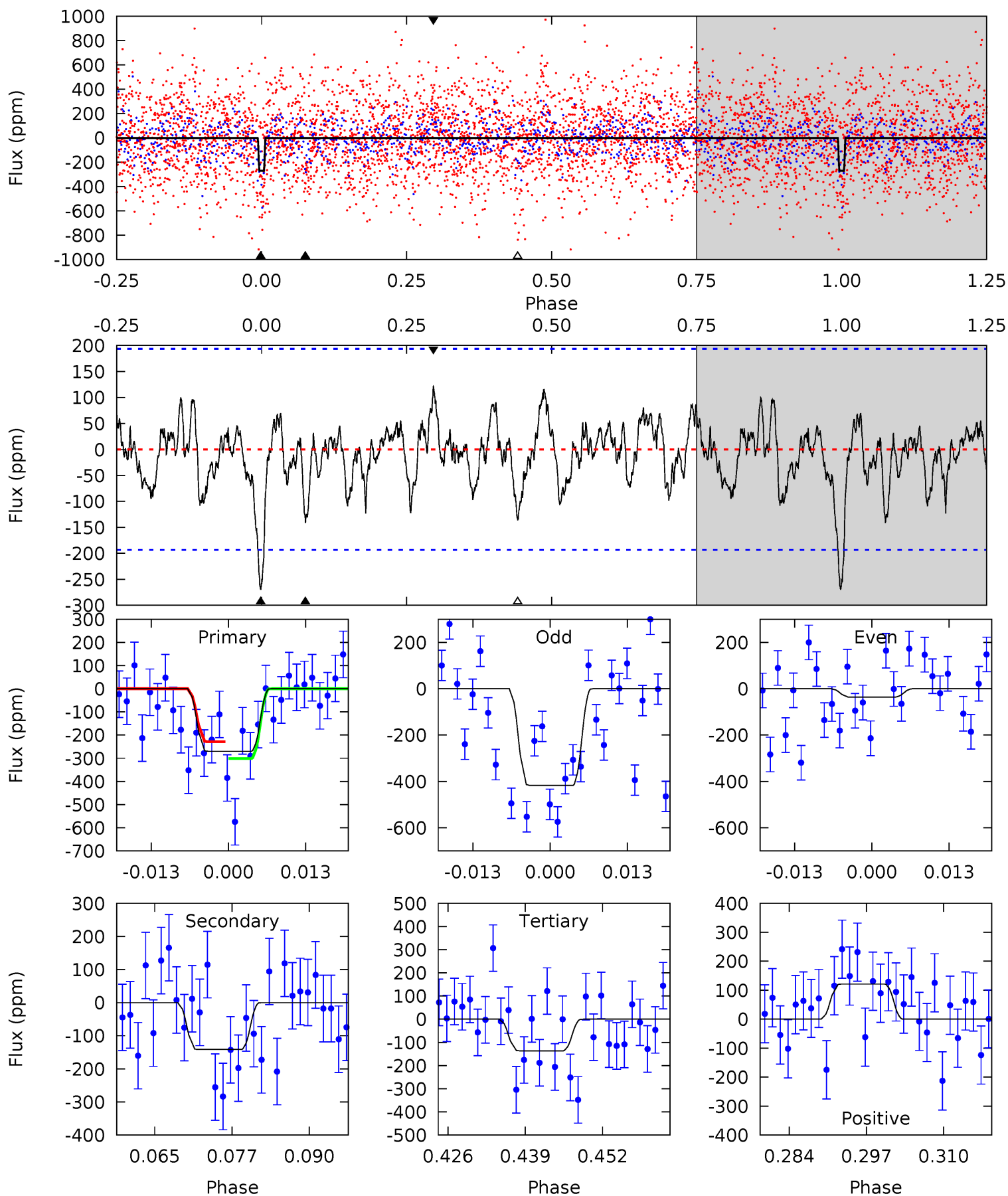
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005025217-09, P = 12.084867 Days, E = 122.749767 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.94	3.64	3.51	3.12	4.98	2.49	1.24	3.44	3.83	0.13	0.52	4.83	0.92	0.31	0.90



Stellar Parameters For KIC 005025217

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6286^{+157}_{-188}	$3.056^{+0.435}_{-0.145}$	$-0.500^{+0.350}_{-0.300}$	$7.342^{+1.923}_{-3.572}$	$2.233^{+0.311}_{-0.673}$	$0.008^{+0.034}_{-0.003}$
	+2%/-3%	+14%/-5%	+70%/-60%	+26%/-49%	+14%/-30%	+425%/-42%
Source	PHO1	FLK73	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 005025217-09 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$52.51^{+61.39}_{-38.43}$	2811^{+227}_{-370}	-5313^{+34049}_{-21775}	$-8.437^{+707.800}_{-669.609}$
Alt.	-141 ± 39	$52.79^{+59.46}_{-35.46}$	2803^{+218}_{-348}	2729^{+1642}_{-5534}	$0.489^{+3.848}_{-0.384}$

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

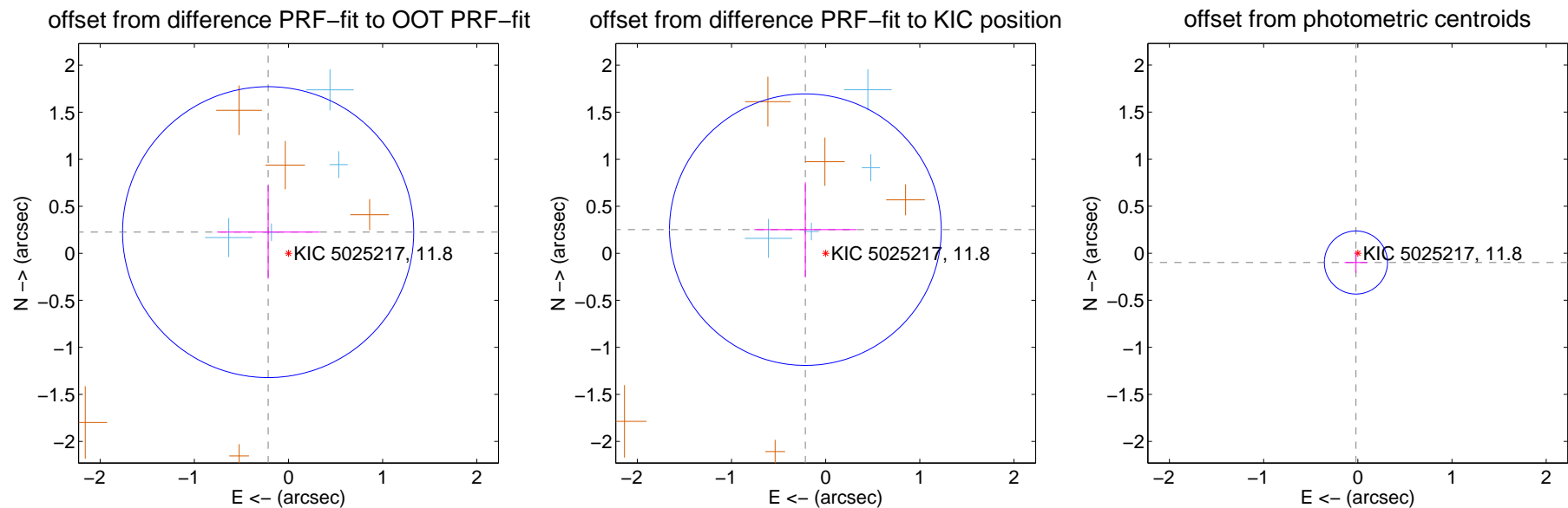
DV Centroid Data

Supplemental centroid analysis for 005025217-09. **Kepler magnitude: 11.80.** Transit SNR -1.00

There are 5 quarters with good PRF difference image offsets

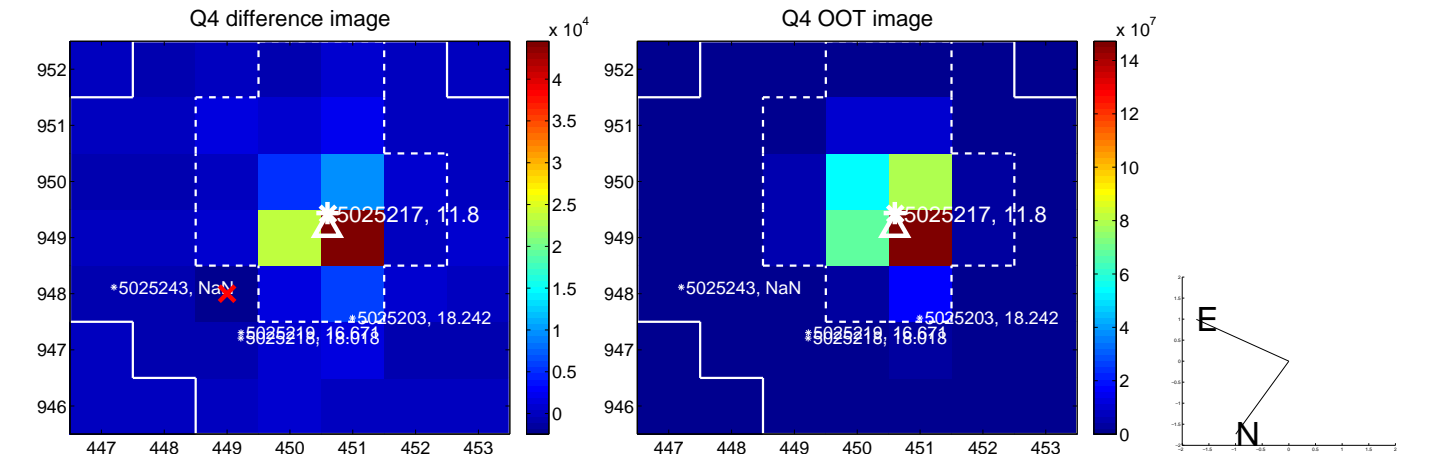
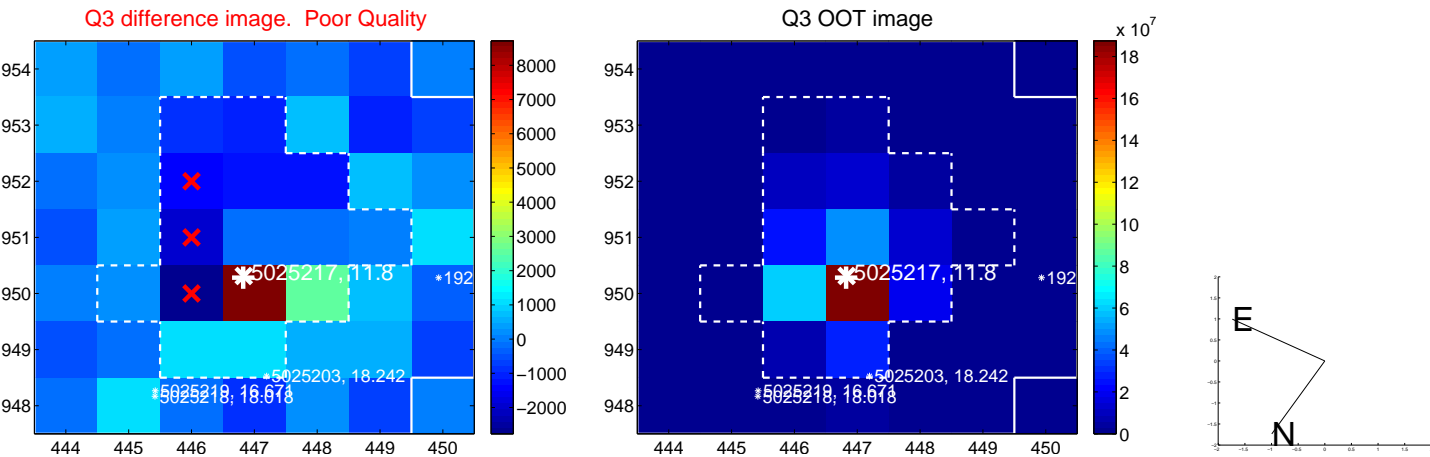
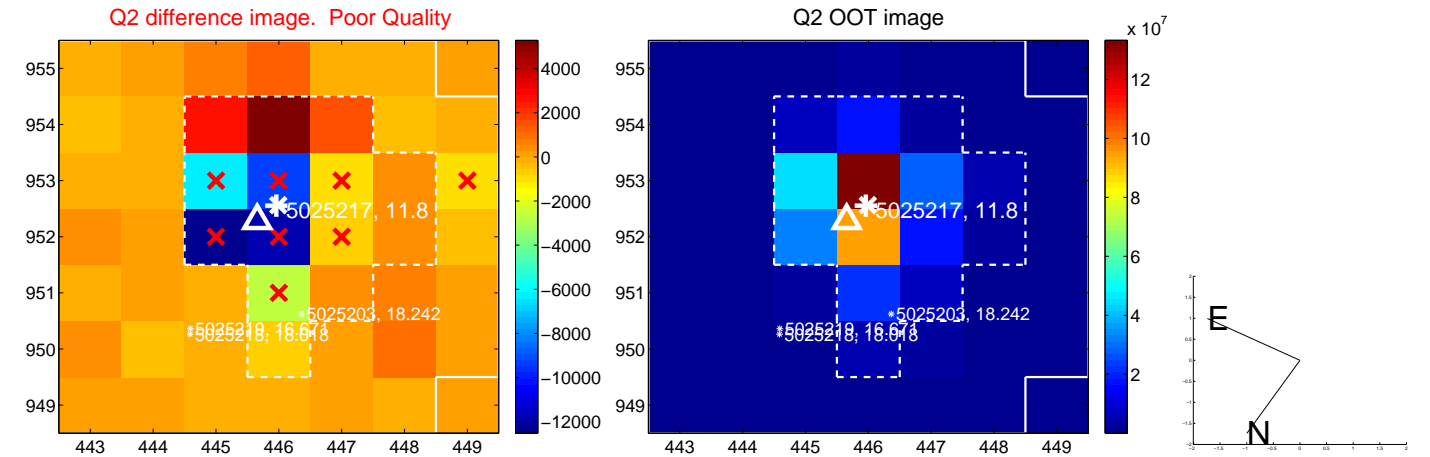
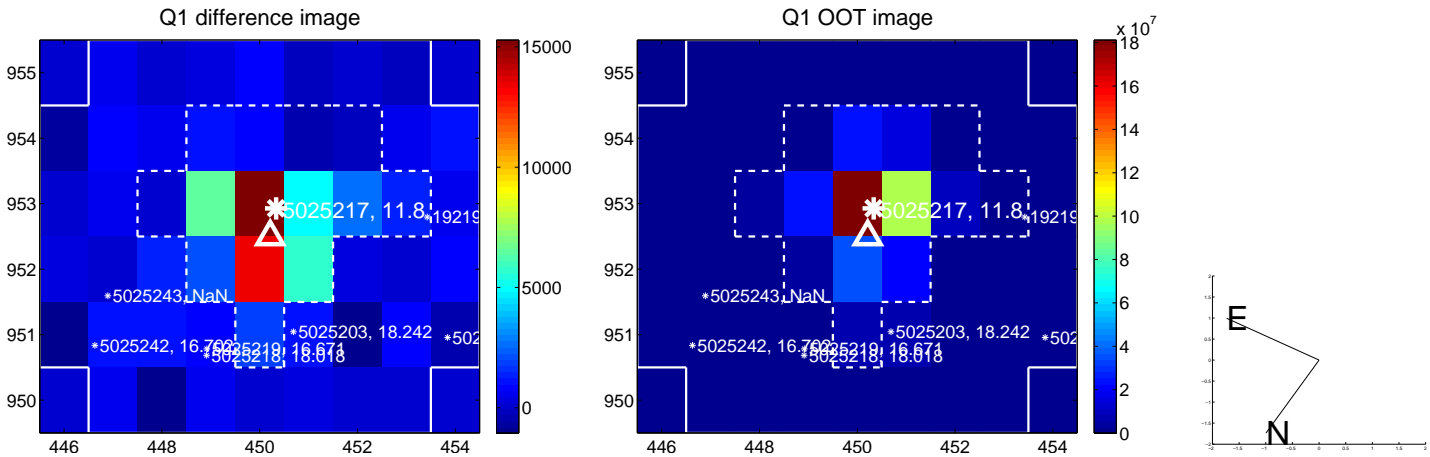
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.312 ± 0.515	0.61	0.216 ± 0.542	0.225 ± 0.495
PRF-fit source offset from KIC position	0.331 ± 0.481	0.69	0.215 ± 0.542	0.251 ± 0.504
photometric centroid source offset	0.10 ± 0.11	0.90	0.02 ± 0.12	-0.10 ± 0.11

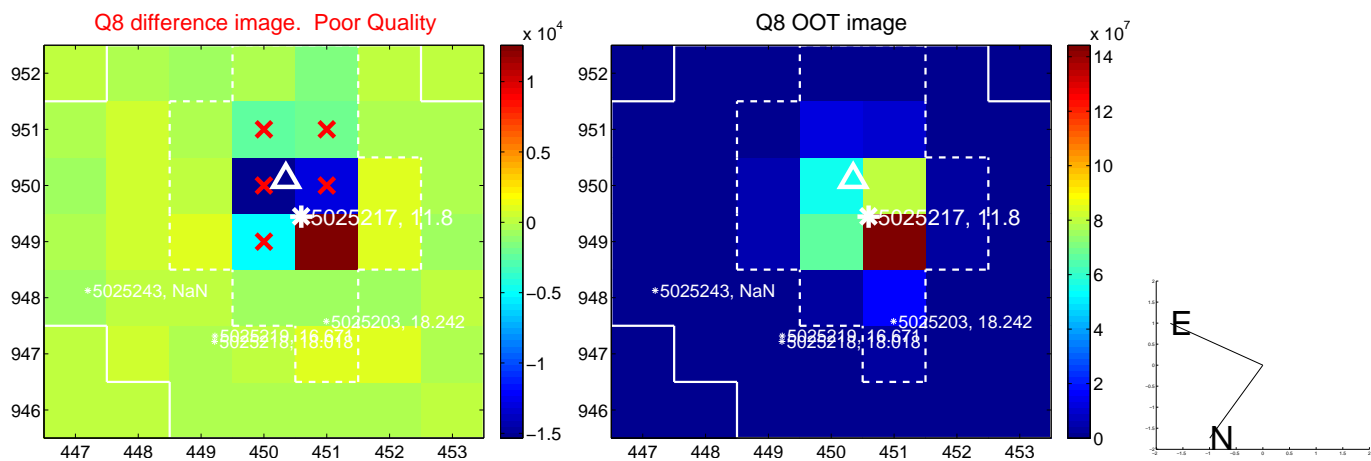
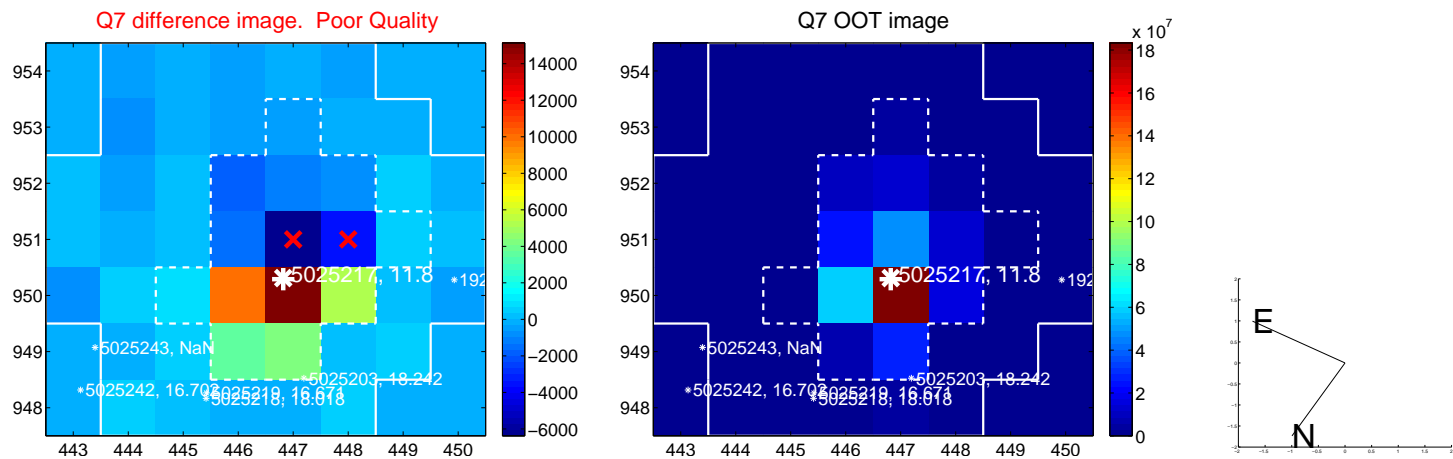
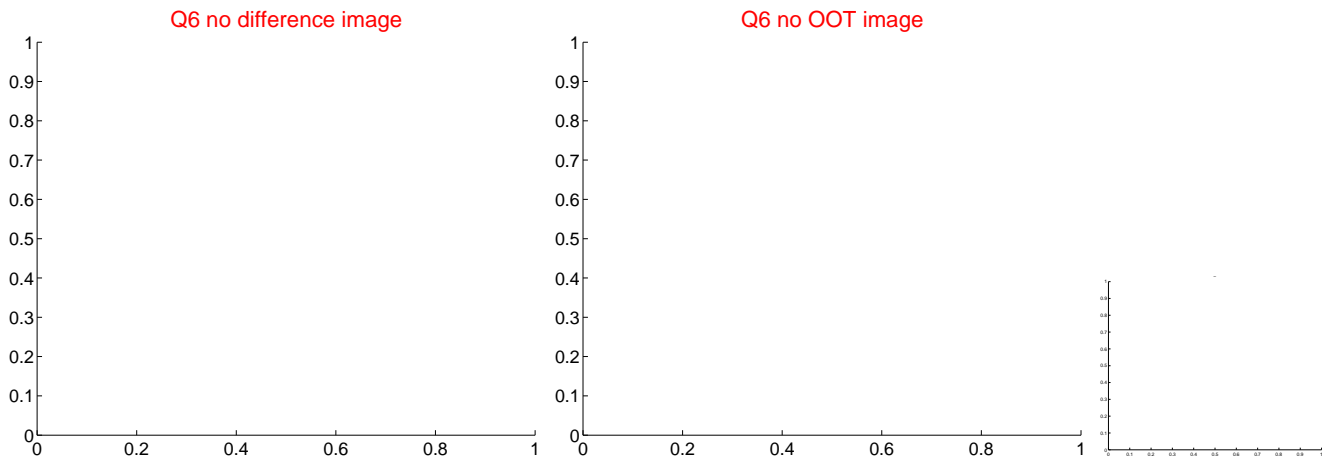
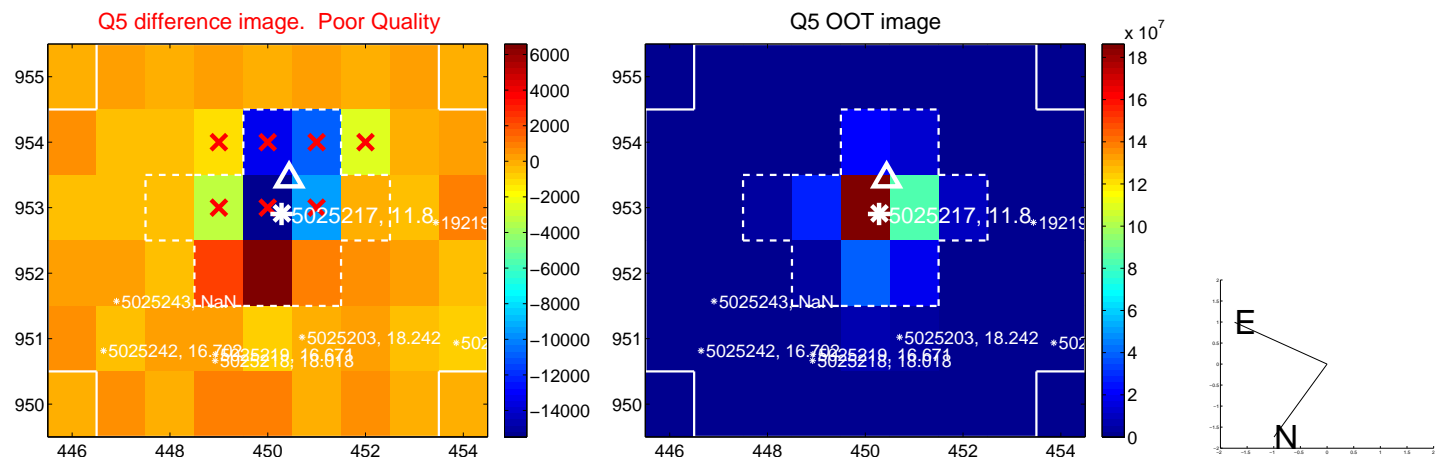


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

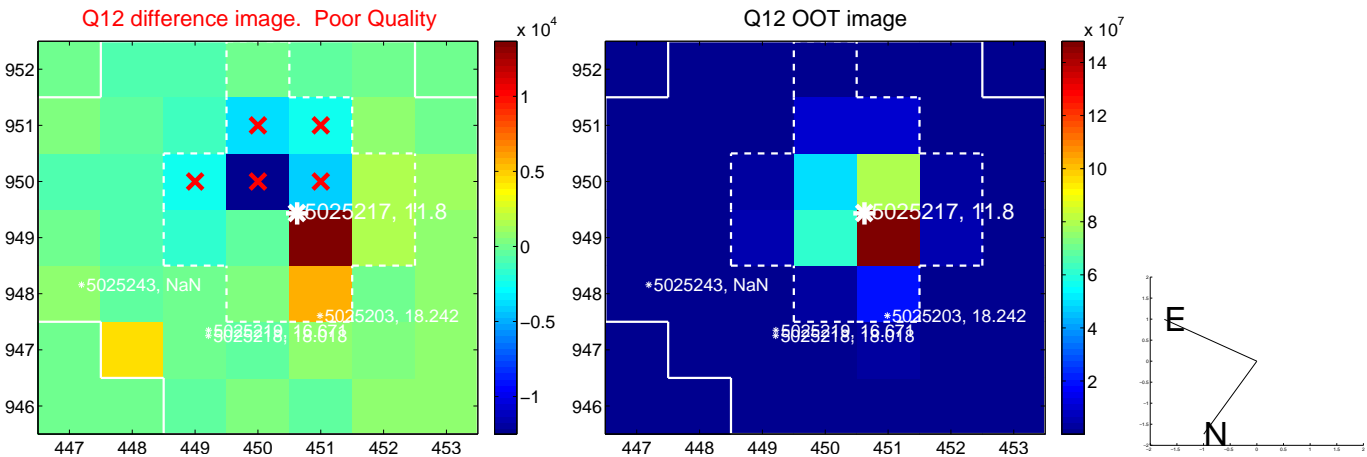
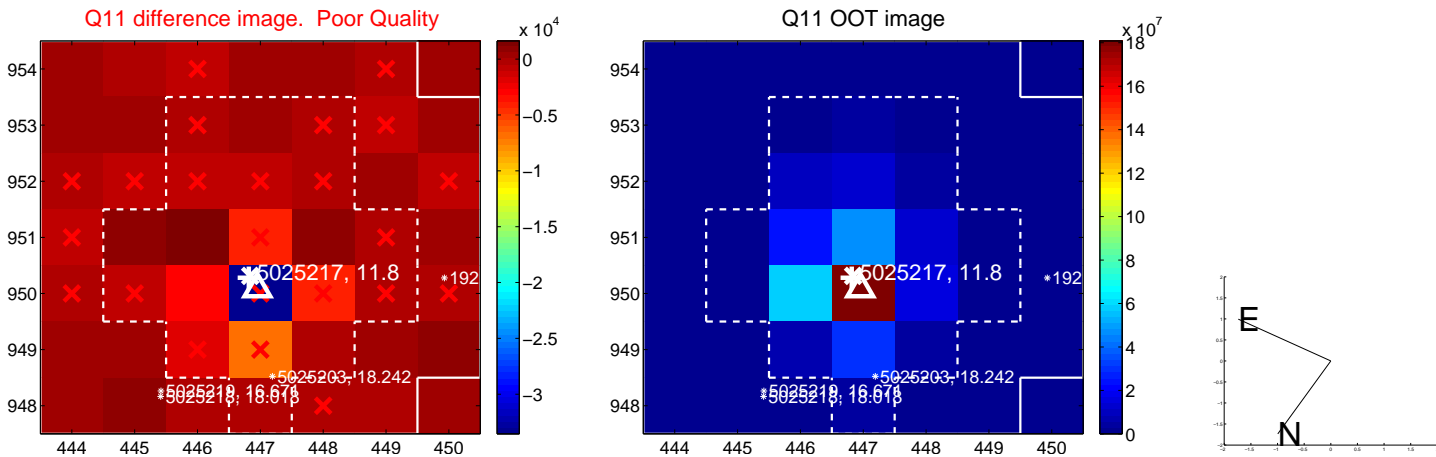
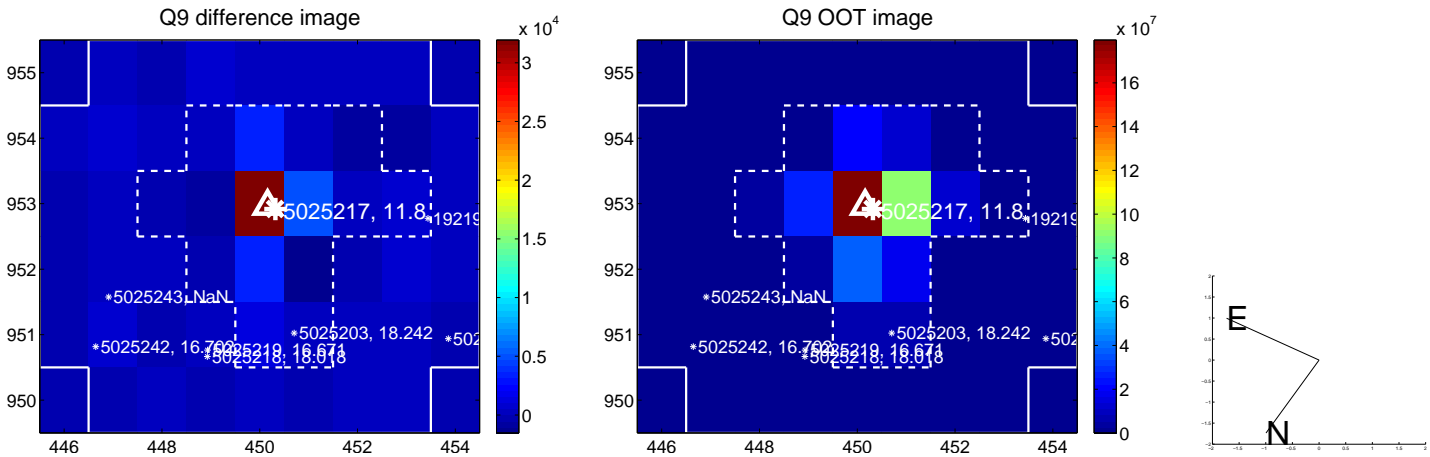
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



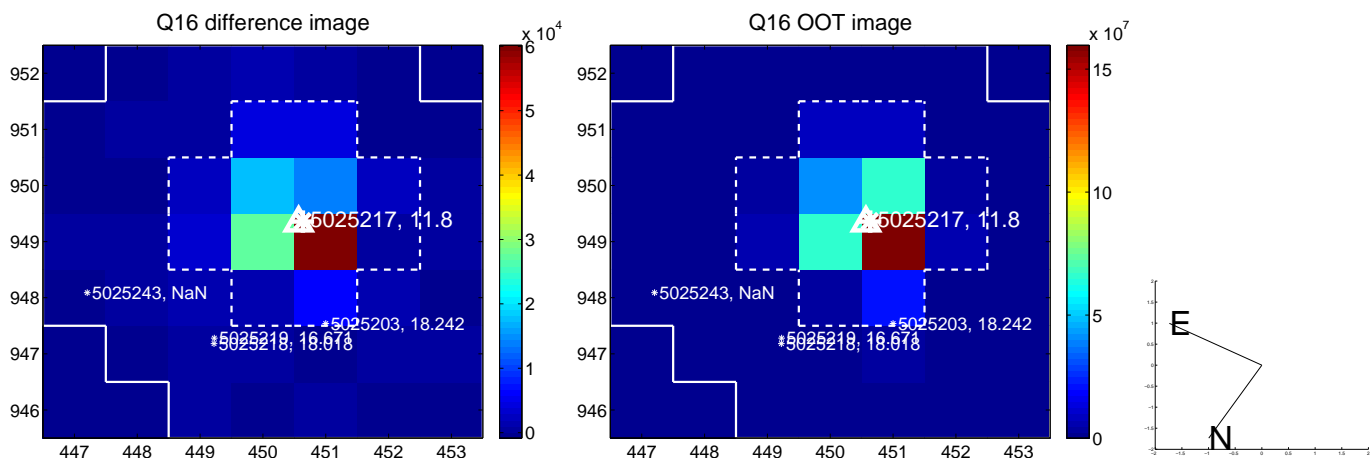
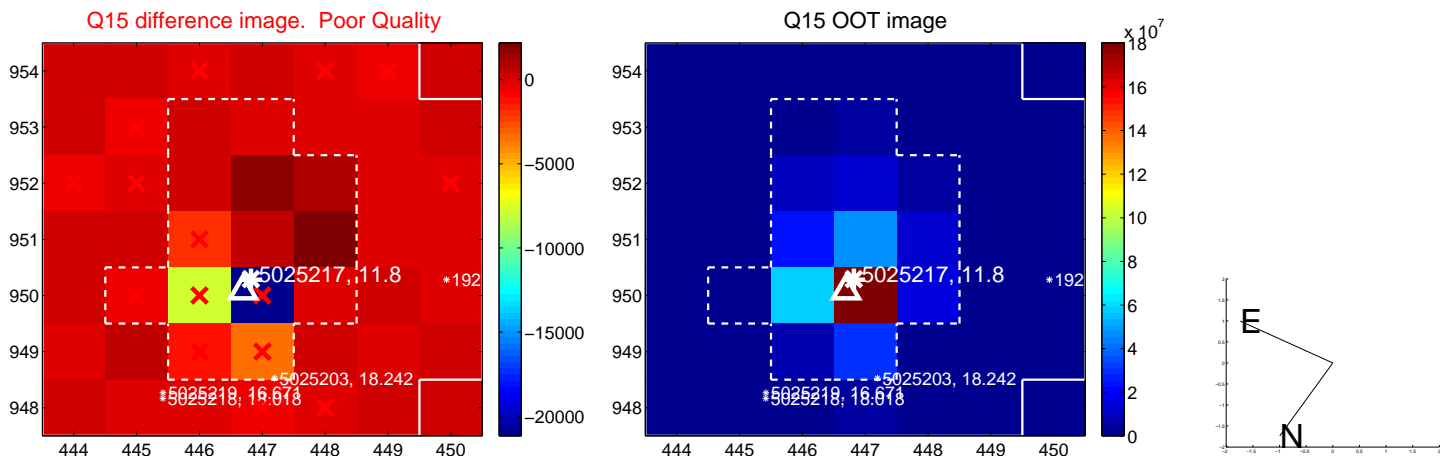
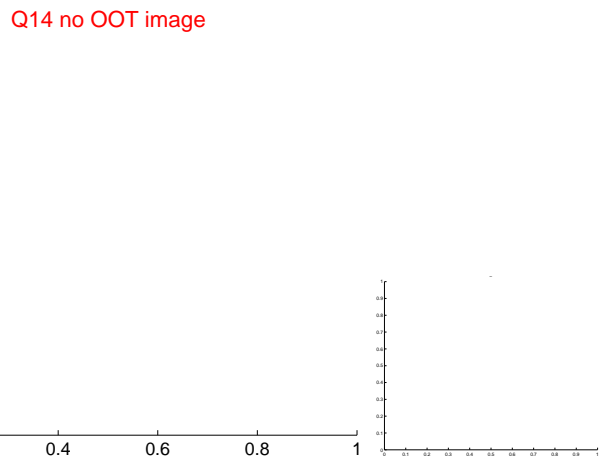
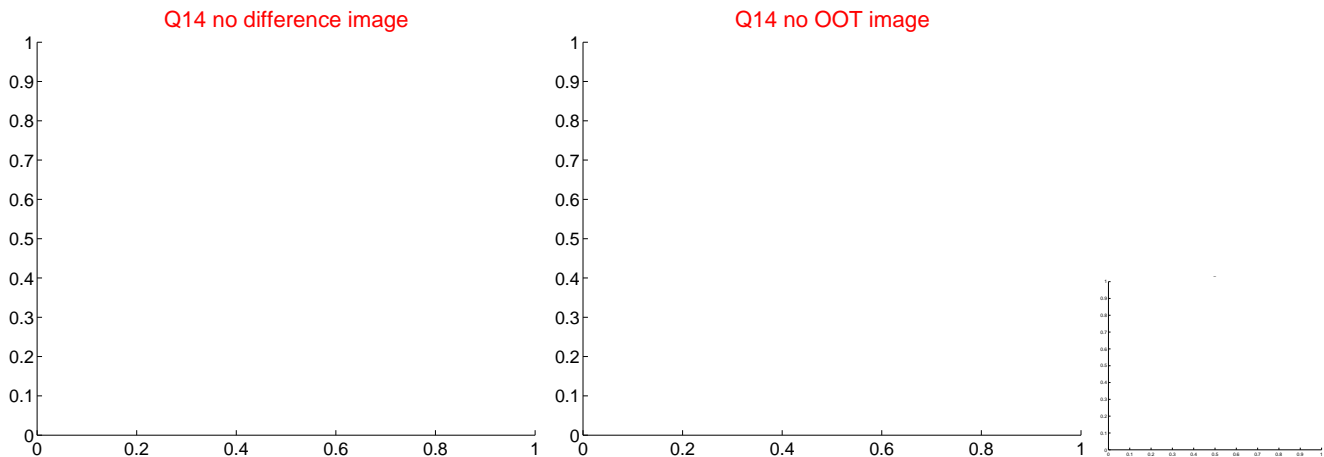
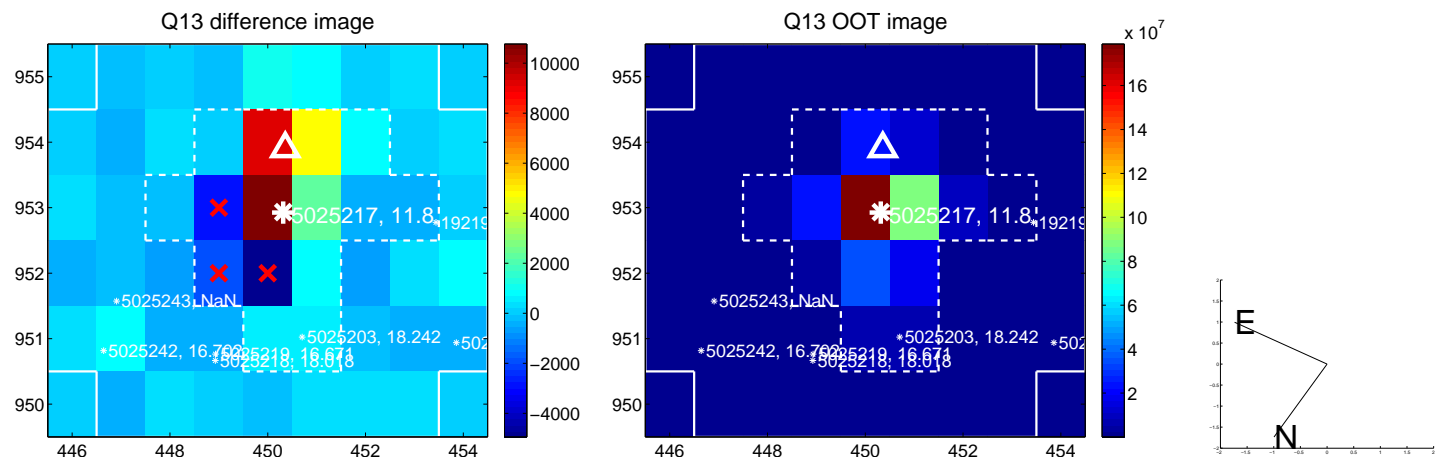
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



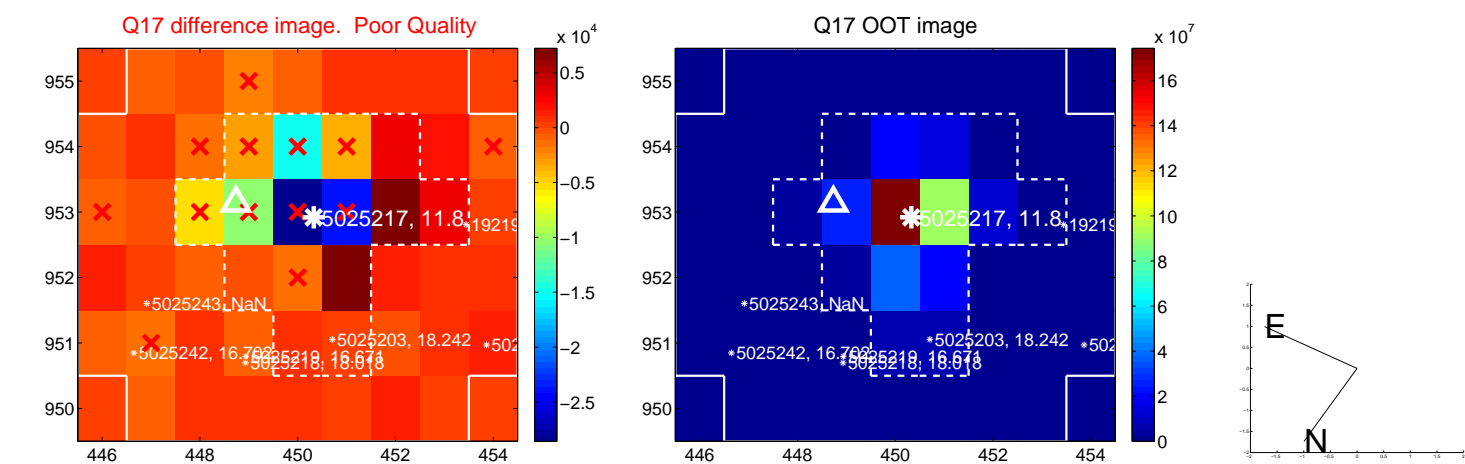
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



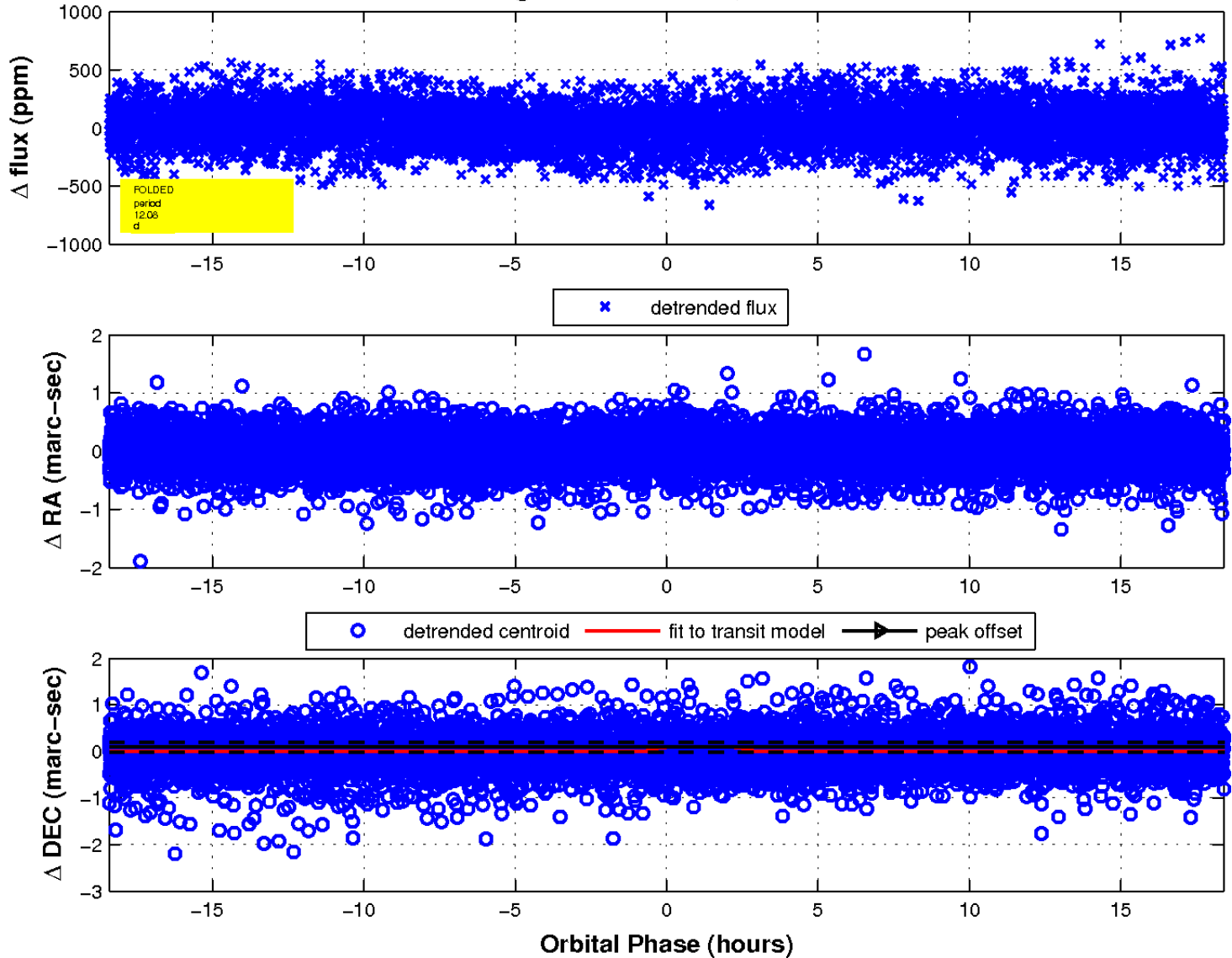
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 9 of 9



UKIRT Image

Declination

