

KIC 004379925

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})
004379925-01	OBS	No	2.411362	133.800677	19.0	14.817	10.5	9.9	2.07	7605	0.95	7103.63
004379925-02	OBS	No	60.987771	156.012996	290.5	1.742	8.1	7.4	2.07	7605	4.01	95.68
004379925-03	OBS	No	76.776385	195.153529	314.1	1.353	7.4	7.3	2.07	7605	3.99	70.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004379925-01	OBS	FP	0.00	1	0	0	0	LPP_DV
004379925-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_MEAS
004379925-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_UNCERTAIN

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

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

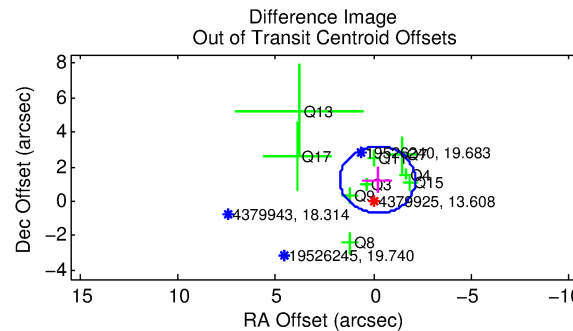
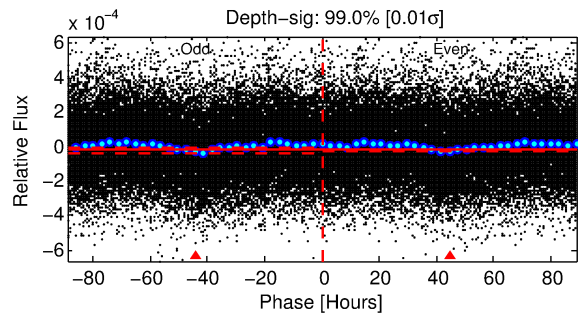
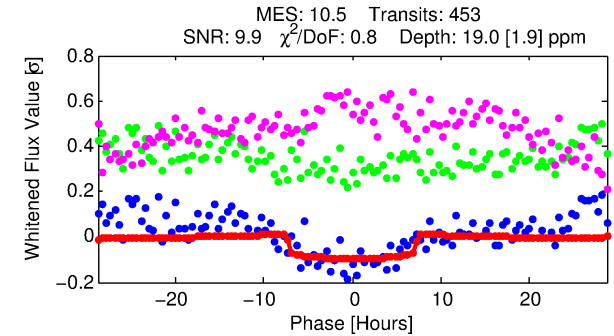
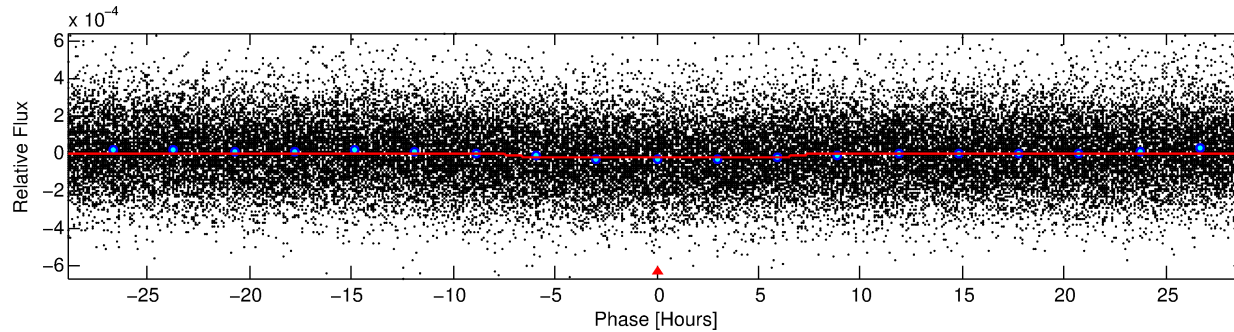
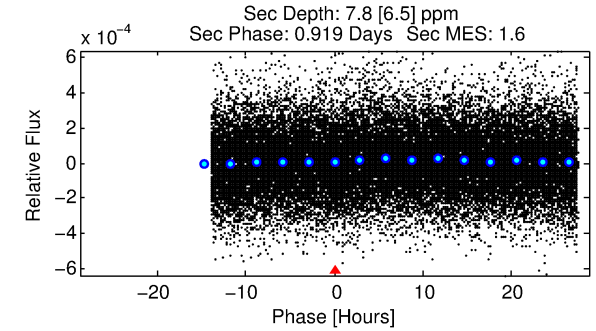
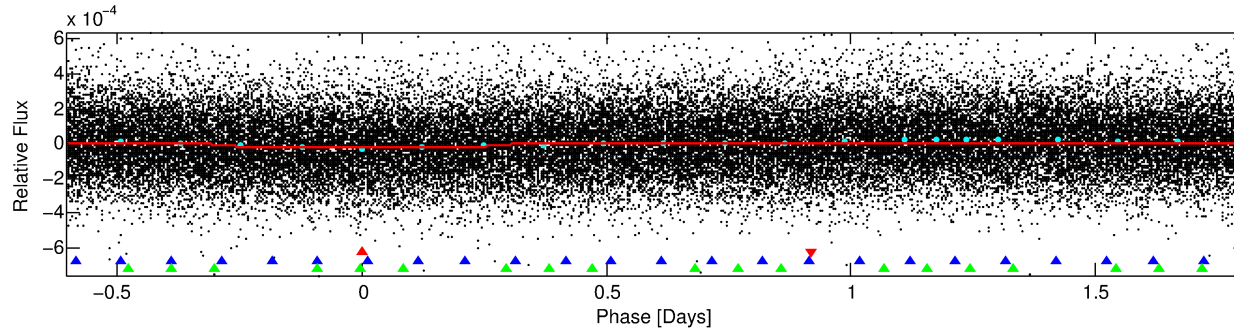
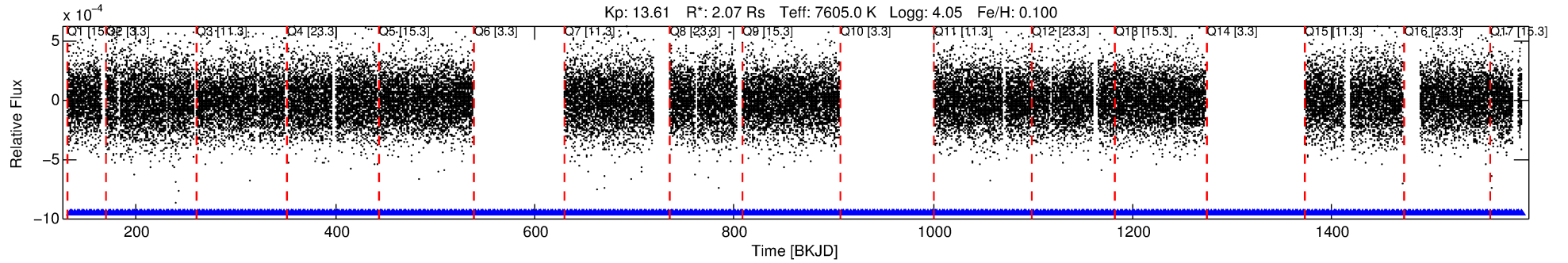
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004379925-01

No Significant Match Found

DV One-Page Summary

KIC: 4379925 Candidate: 1 of 3 Period: 2.411 d



DV Fit Results:

Period = 2.41136 [0.00005] d
Epoch = 133.8007 [0.0115] BKJD
Rp/R* = 0.0042 [0.0021]
a/R* = 1.26 [1.42]
b = 0.62 [3.02]
Seff = 7103.63 [2349.03]
Teq = 2341 [194] K
Rp = 0.96 [0.52] Re
a = 0.0426 [0.0084] AU
Ag = 8.55 [11.26] [0.67σ]
Teffp = 6188 [2006] K [1.91σ]

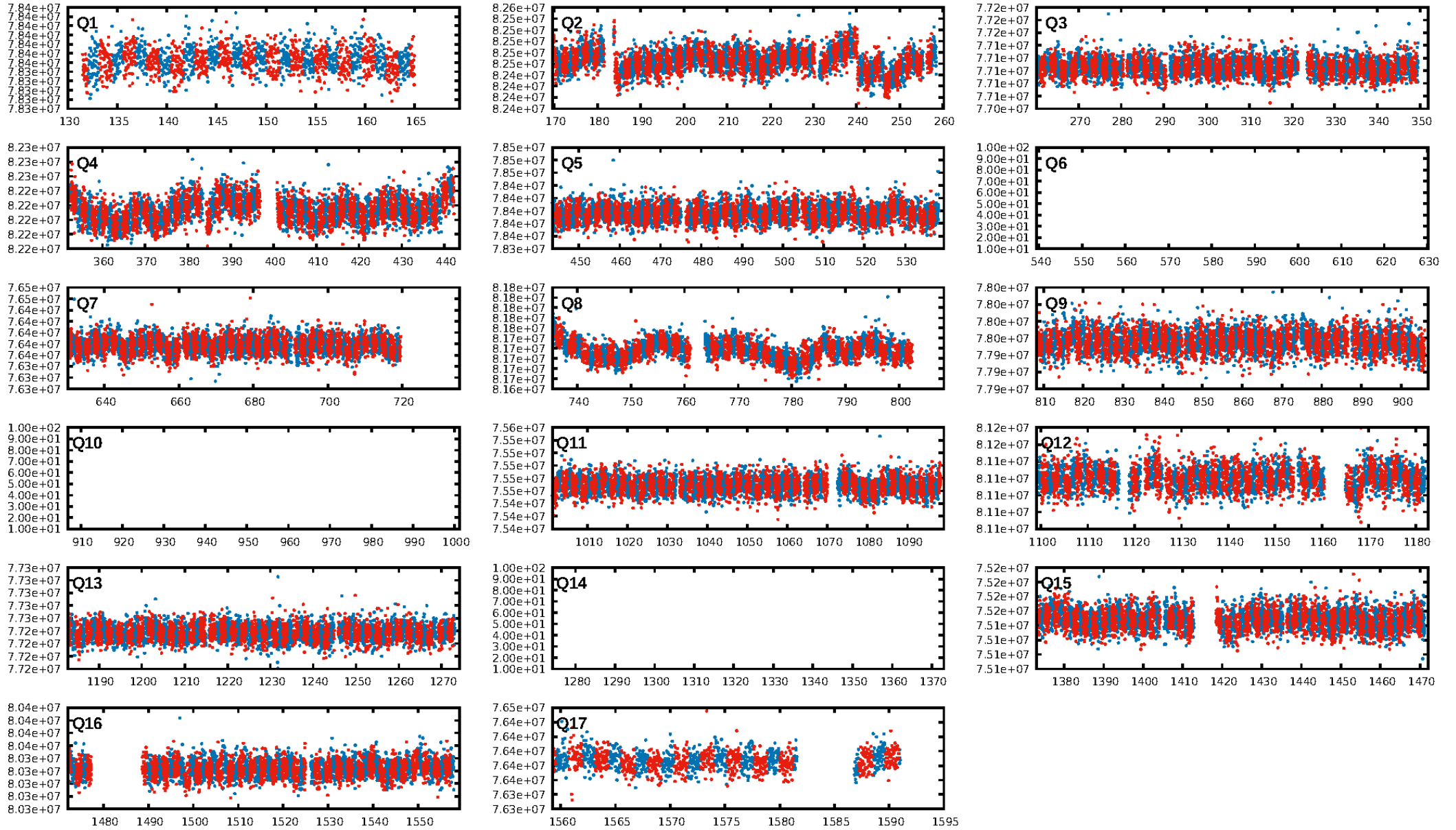
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [94.23σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.29e-22
RollingBand-fgt: 1.00 [427/427]
GhostDiagnostic-chr: 1.726
Centroid-sig: 4.5%
Centroid-so: 2.477 arcsec [1.67σ]
OotOffset-rm: 1.251 arcsec [1.94σ]
OotOffset-st: 0/4/2/3 [9]
KicOffset-rm: 1.198 arcsec [1.87σ]
KicOffset-st: 0/4/2/3 [9]
DiffImageQuality-fgm: 0.78 [7/9]
DiffImageOverlap-fno: 1.00 [14/14]

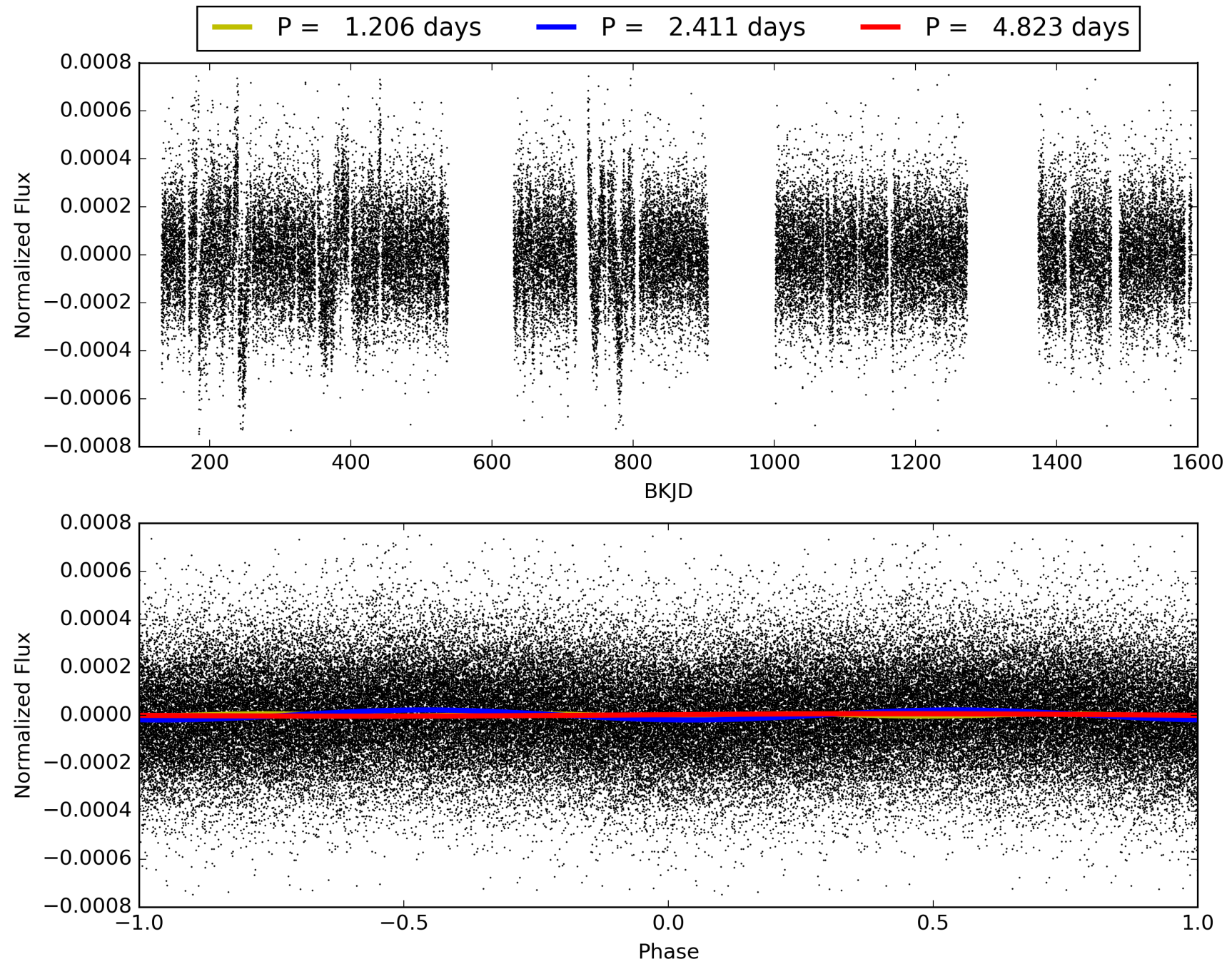
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:53:54 Z

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

TCE 004379925-01, PDC Light Curves

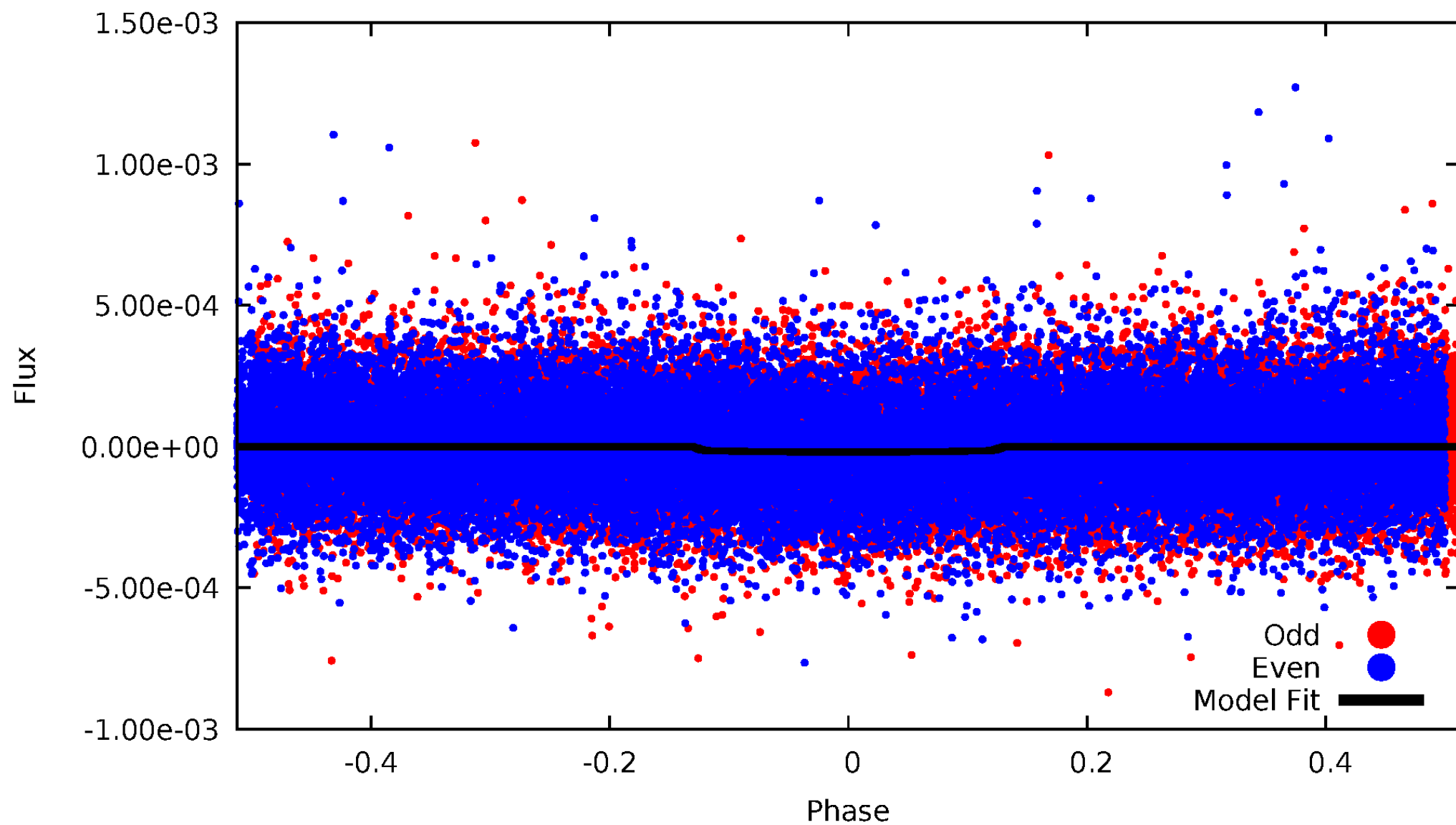


TCE 004379925-01



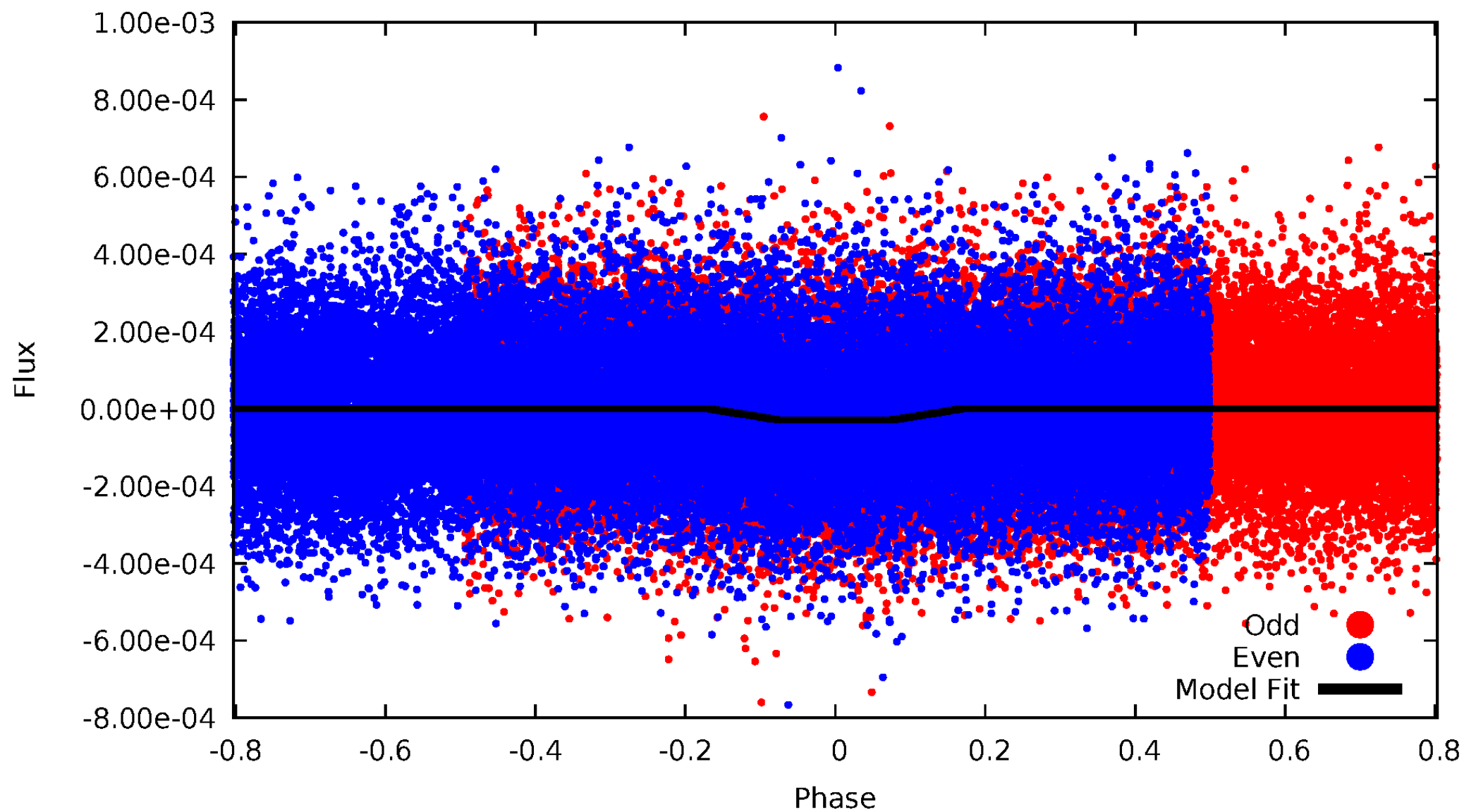
DV Odd/Even

TCE 004379925-01



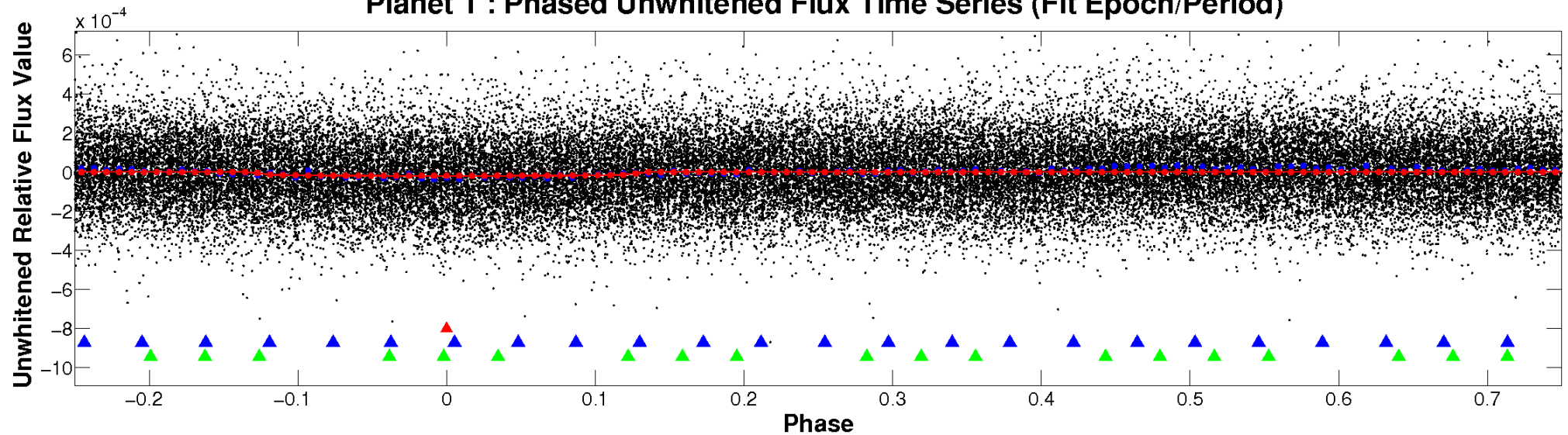
ALT Odd/Even

TCE 004379925-01

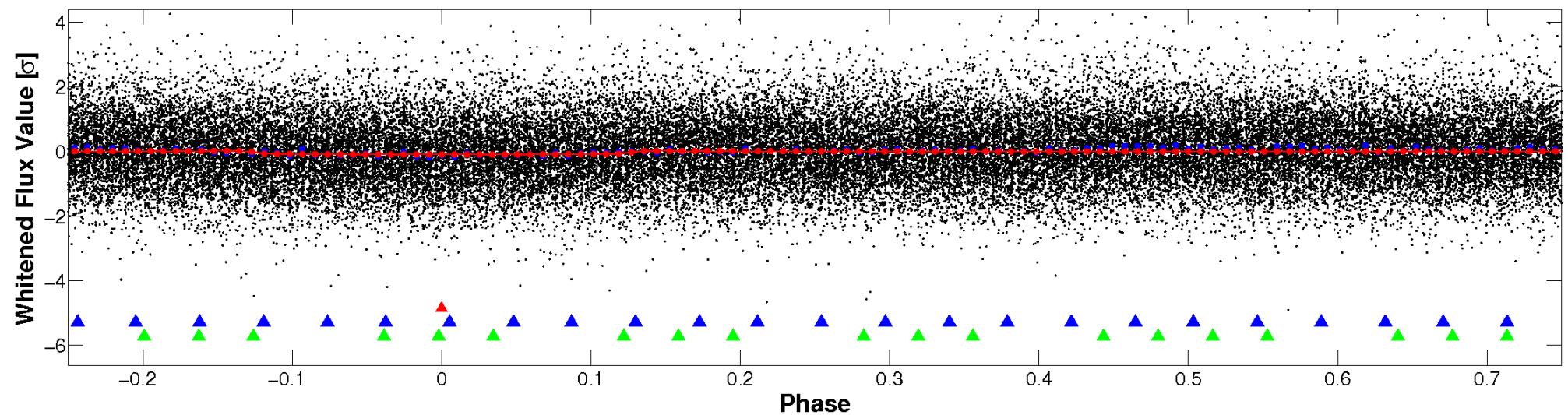


Non-Whitened Vs. Whitened Light Curve

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

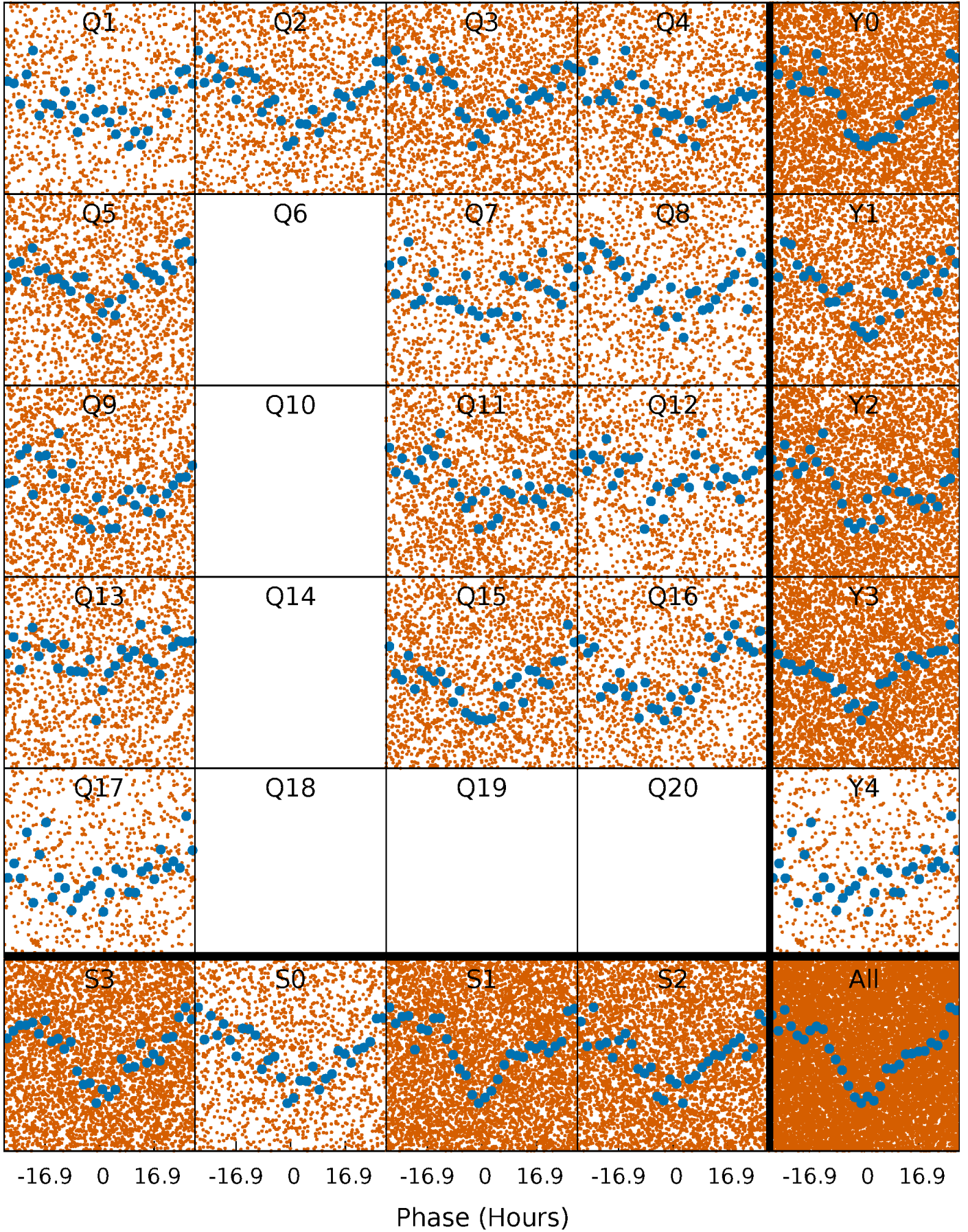


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



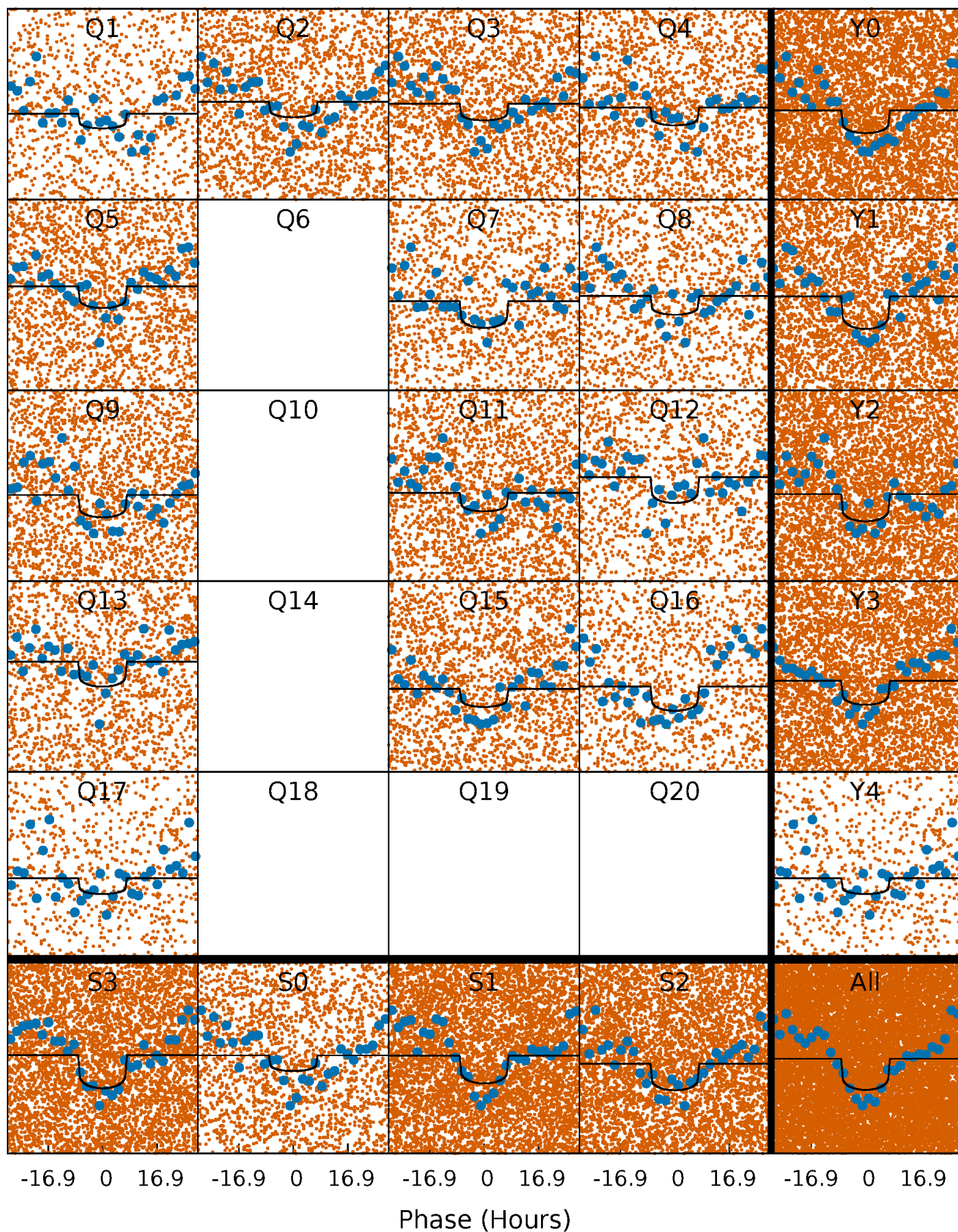
PDC Quarter-Phased Transit Curves

TCE 004379925-01 P= 2.411362 Days $T_0=133.800677$ (BKJD)



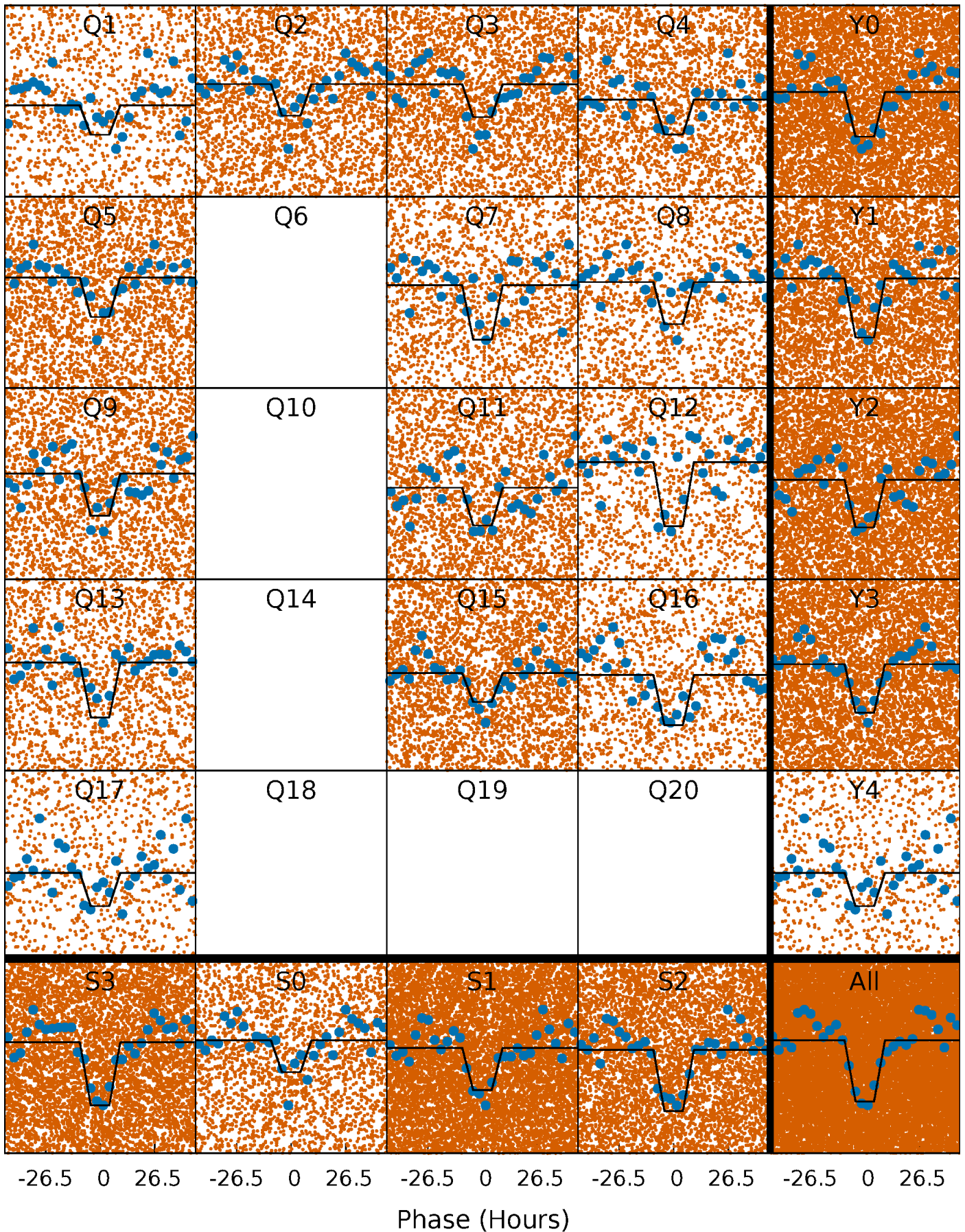
DV Quarter-Phased Transit Curves

TCE 004379925-01 P= 2.411362 Days $T_0=133.800677$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

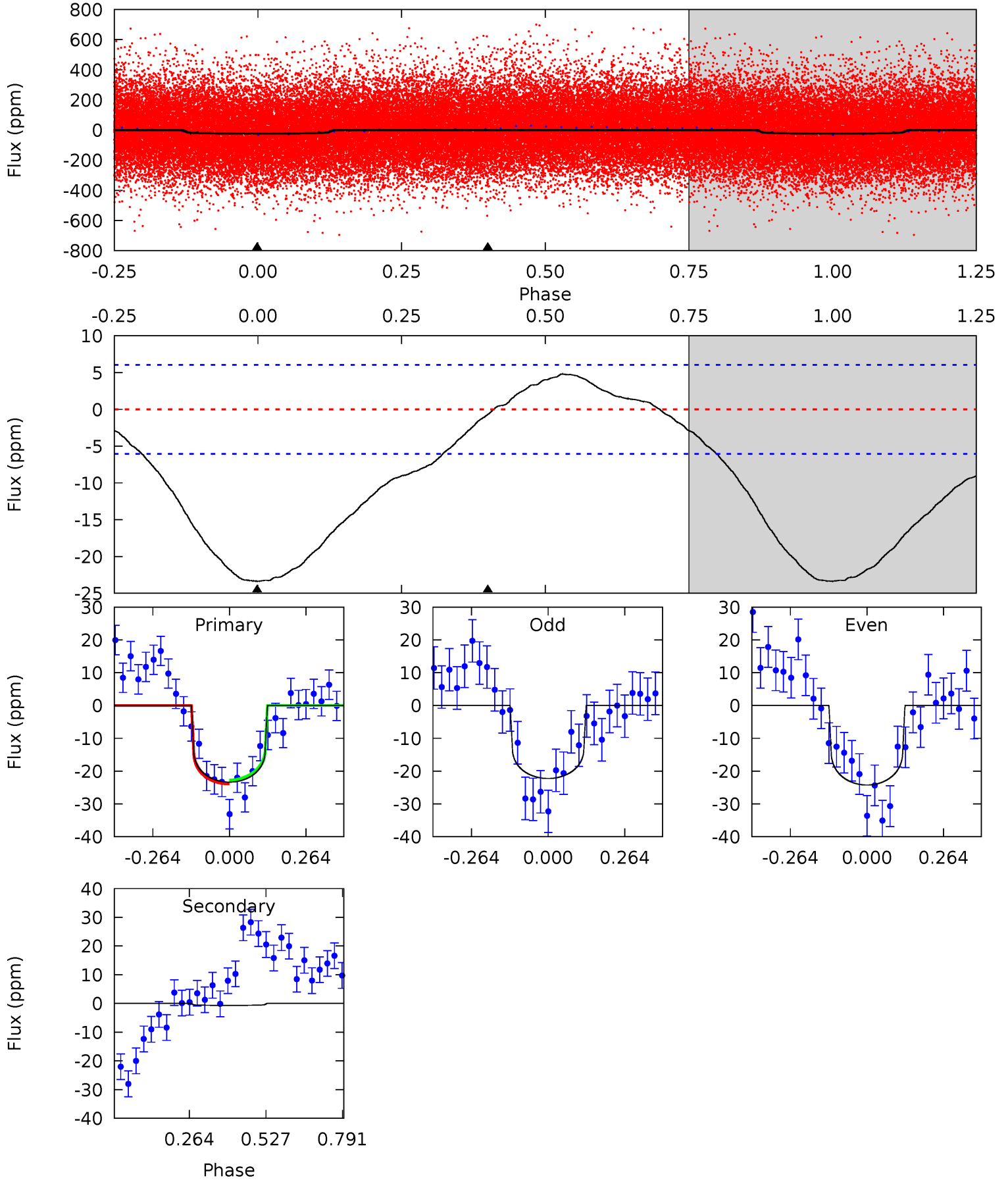
TCE 004379925-01 P= 2.411126 Days $T_0=133.874513$ (BKJD)



DV Model-Shift Uniqueness Test

004379925-01, P = 2.411362 Days, E = 131.389315 Days

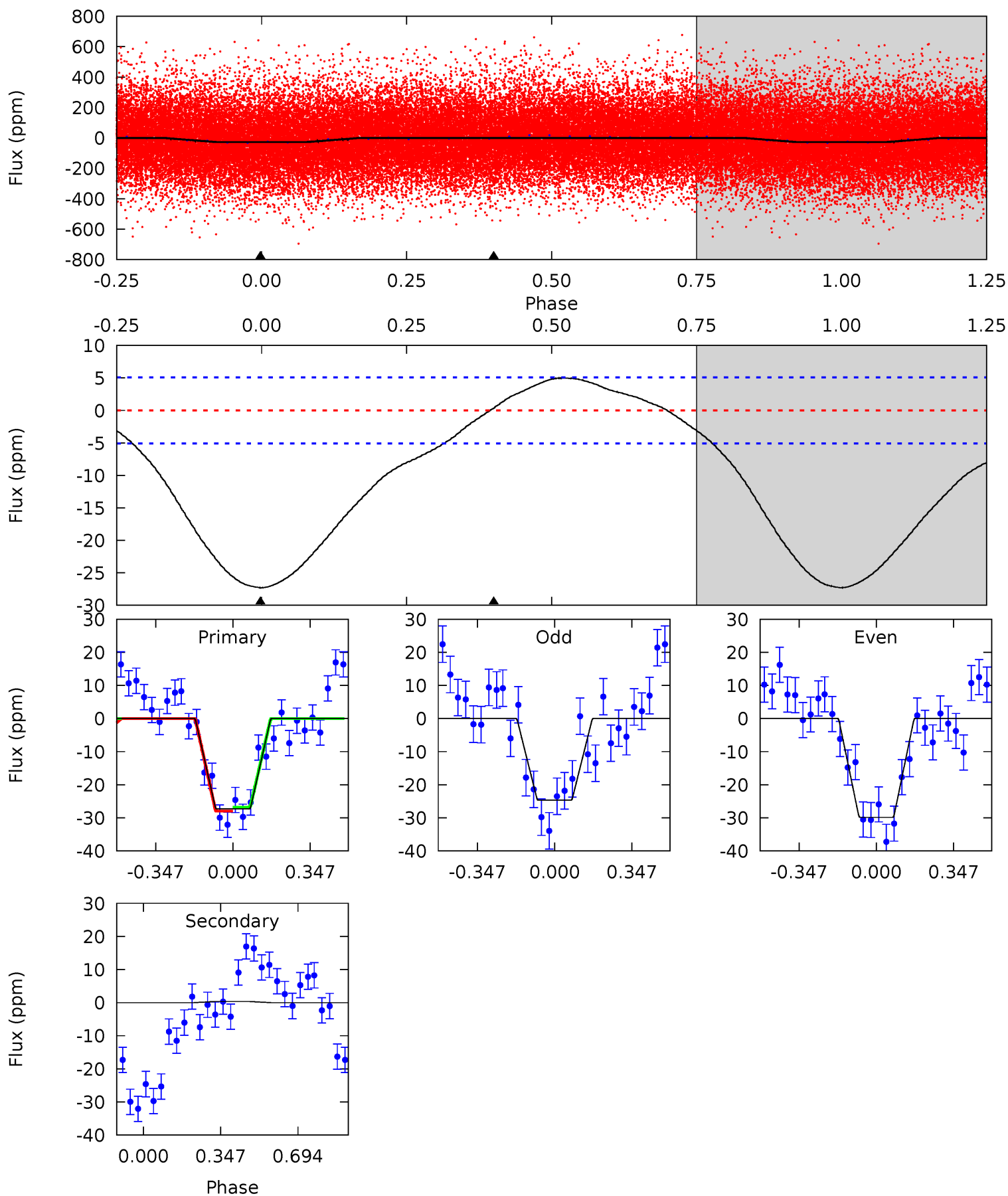
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.8	0.49	0	0	4.36	1.12	0.97	16.8	16.8	0.49	0.49	0.72	0.99	0.17	0.40



Alt Model-Shift Uniqueness Test

004379925-01, P = 2.411126 Days, E = 131.463387 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.1	-0.29	0	0	4.30	0.94	1.25	23.1	23.1	-0.29	-0.29	2.21	1.14	0.15	0.49



Stellar Parameters For KIC 004379925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7605^{+211}_{-316}	$4.053^{+0.155}_{-0.155}$	$0.100^{+0.150}_{-0.350}$	$2.074^{+0.493}_{-0.444}$	$1.773^{+0.195}_{-0.292}$	$0.280^{+0.224}_{-0.124}$
	+3%/-4%	+4%/-4%	+150%/-350%	+24%/-21%	+11%/-16%	+80%/-44%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 004379925-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1 ± 1	$0.91^{+0.54}_{-0.44}$	3257^{+209}_{-202}	3253^{+1676}_{-7162}	$0.615^{+3.267}_{-1.264}$
Alt.	0 ± 1	$1.17^{+0.51}_{-0.42}$	3261^{+218}_{-230}	-3503^{+6793}_{-785}	$-0.218^{+0.856}_{-1.179}$

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

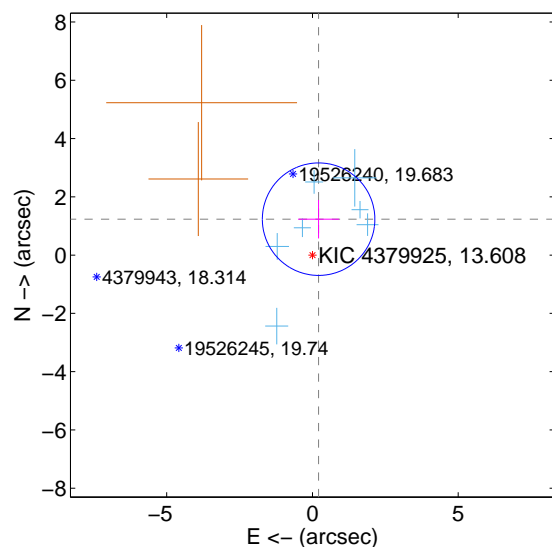
Supplemental centroid analysis for 004379925-01. Kepler magnitude: 13.61. Transit SNR 9.89

There are 7 quarters with good PRF difference image offsets

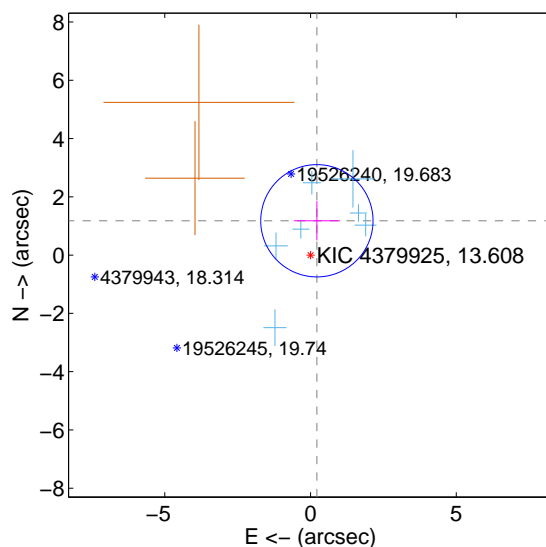
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.251 ± 0.643	1.94	-0.211 ± 0.706	1.233 ± 0.659
PRF-fit source offset from KIC position	1.198 ± 0.642	1.87	-0.218 ± 0.791	1.178 ± 0.674
photometric centroid source offset	2.48 ± 1.48	1.67	-2.48 ± 1.48	0.08 ± 1.45

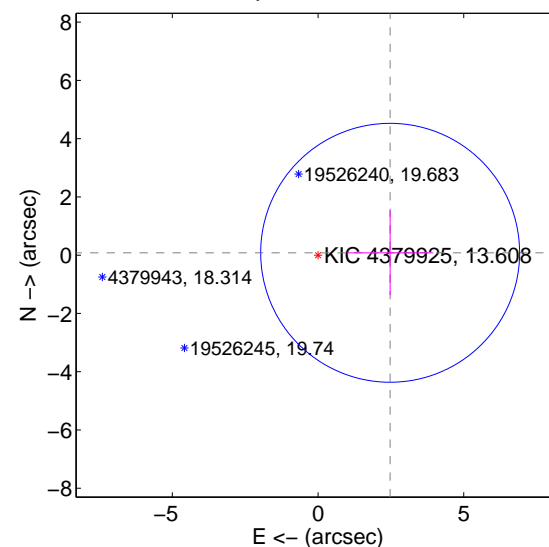
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

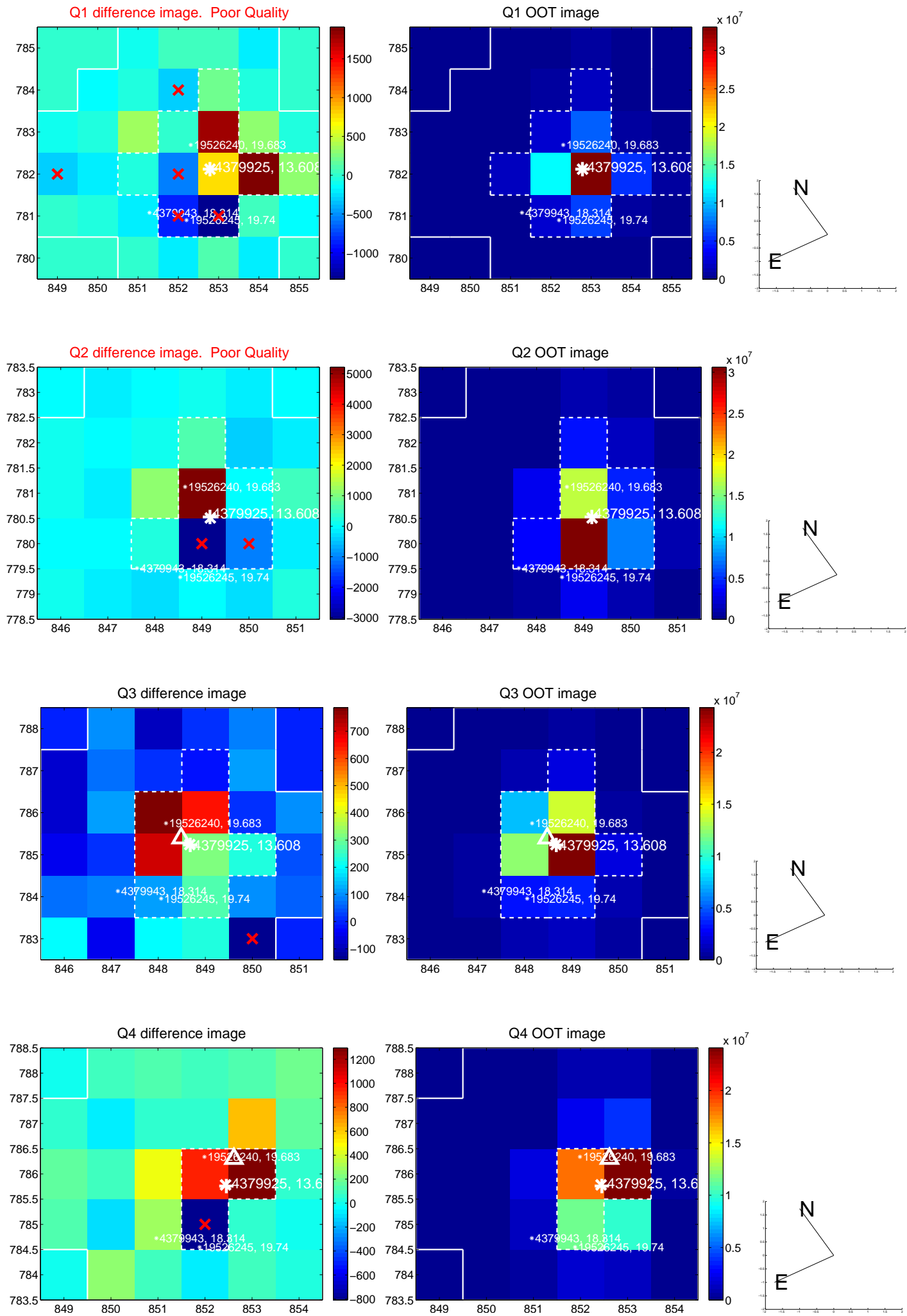


offset from photometric centroids

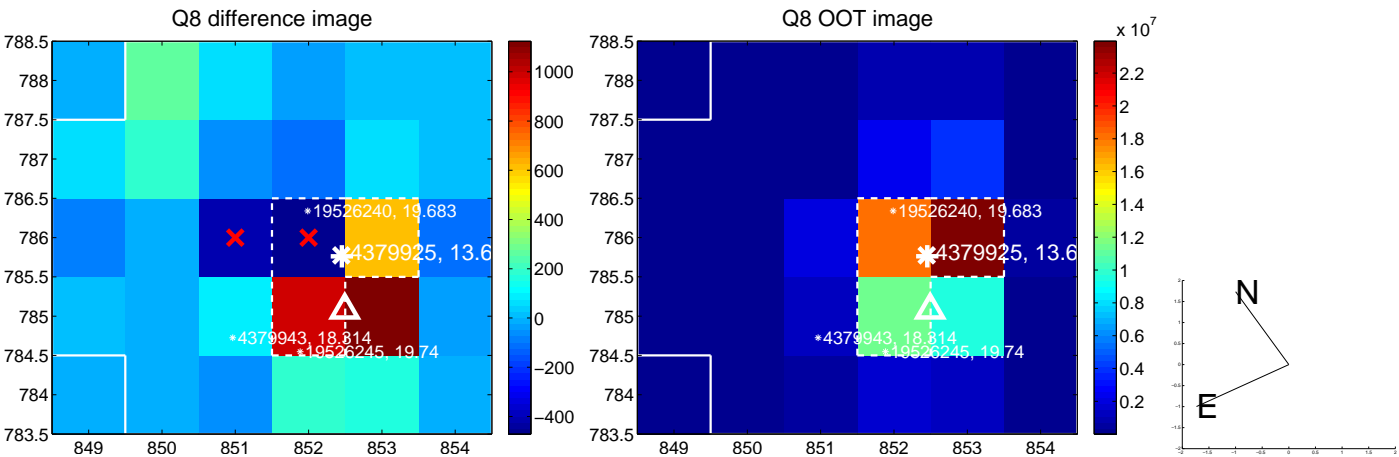
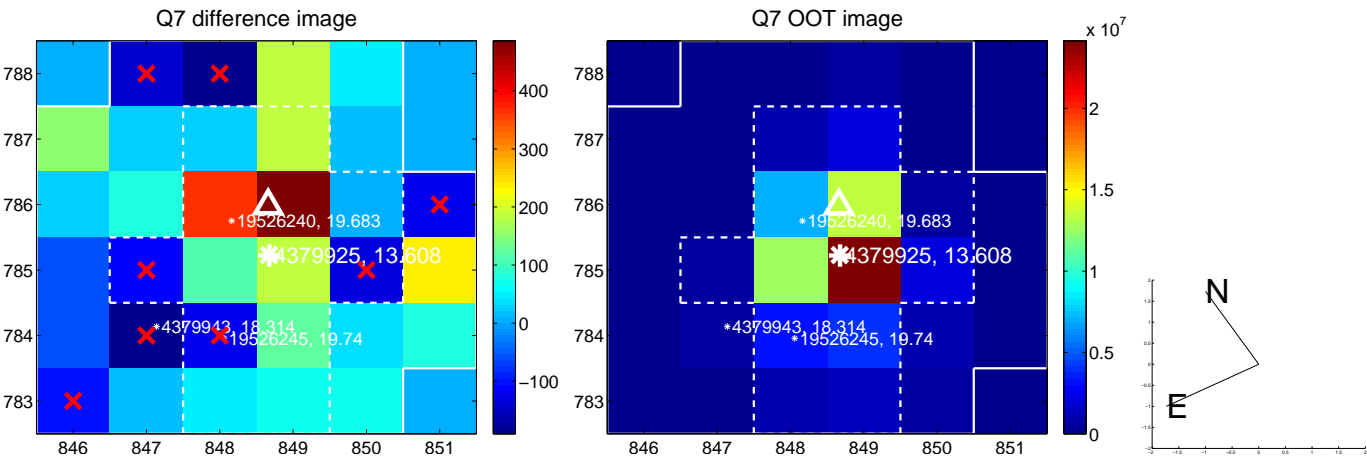
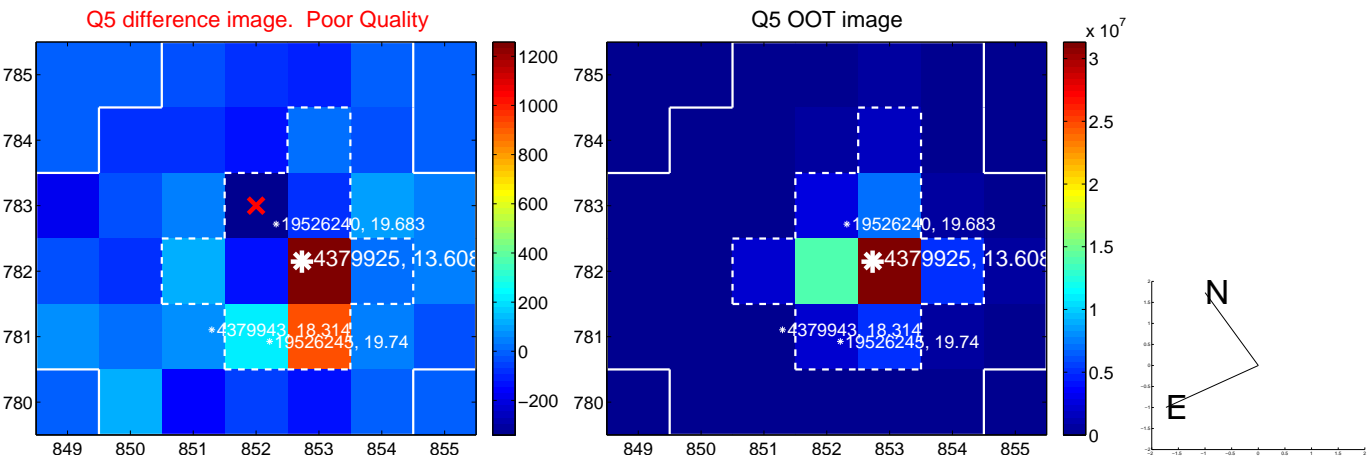


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

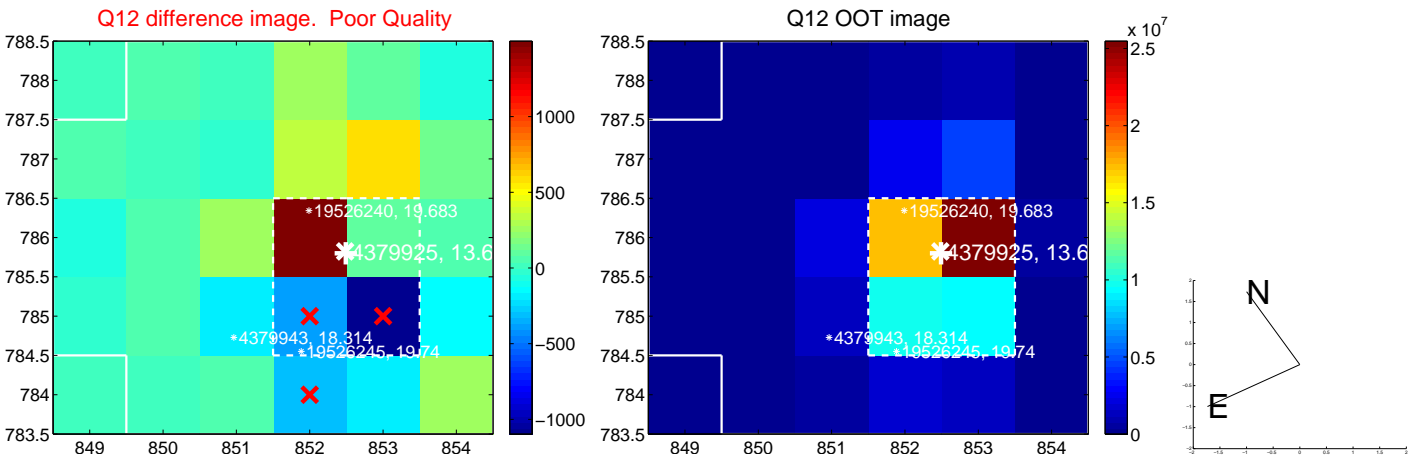
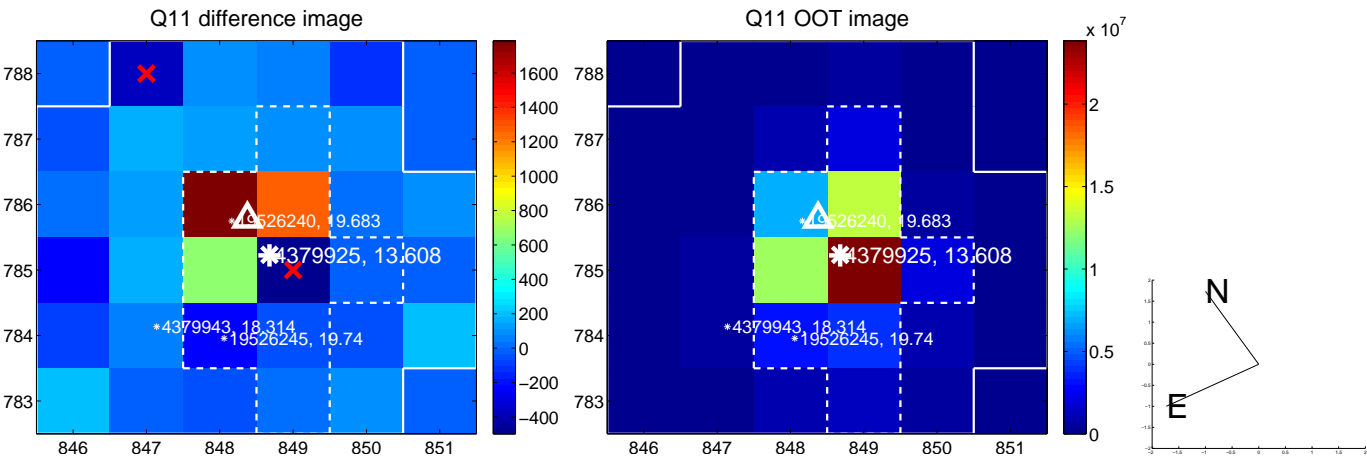
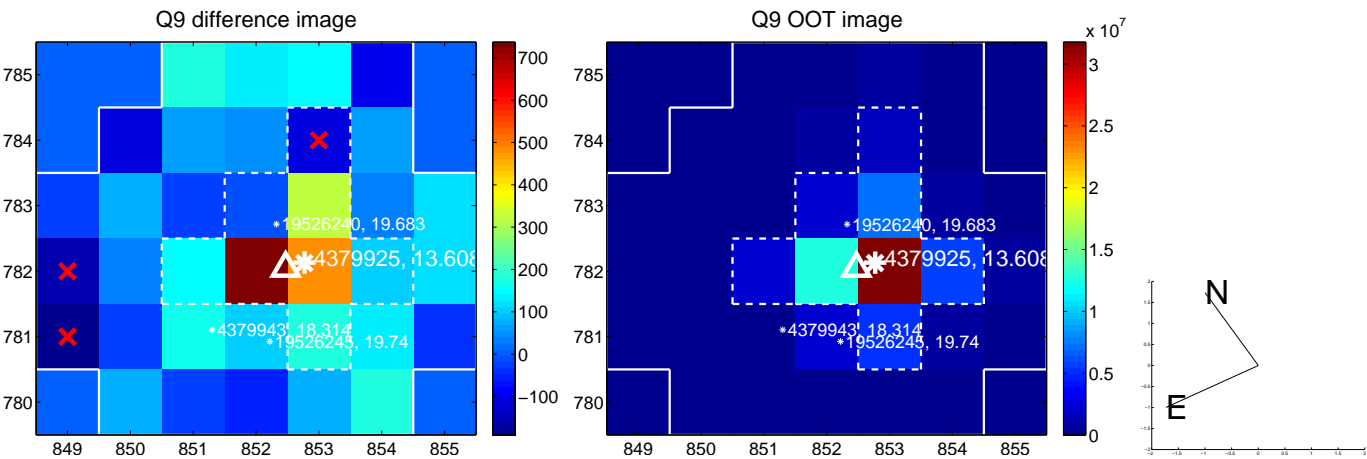
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



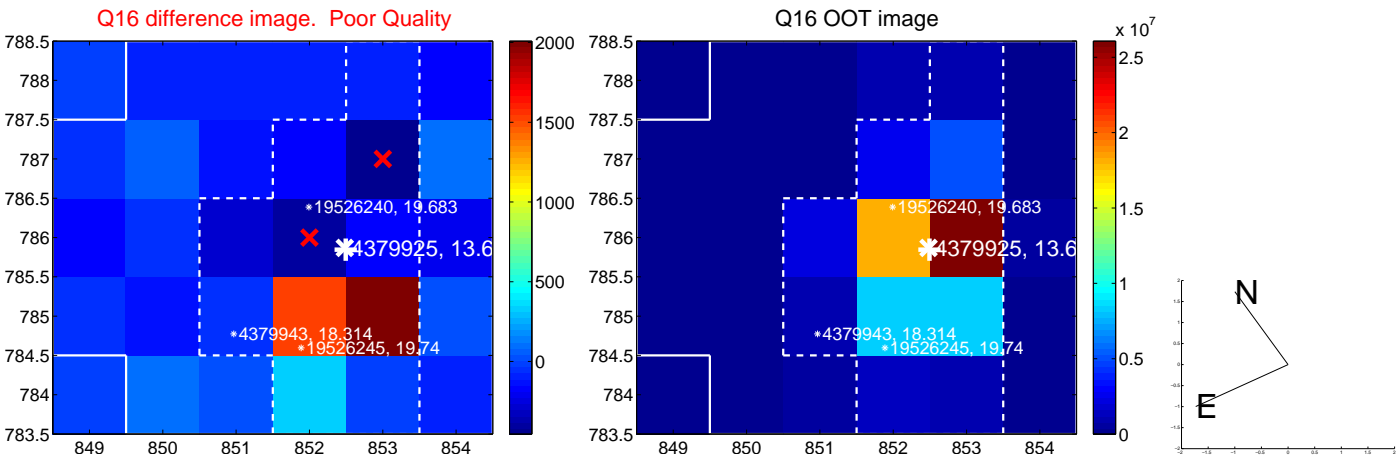
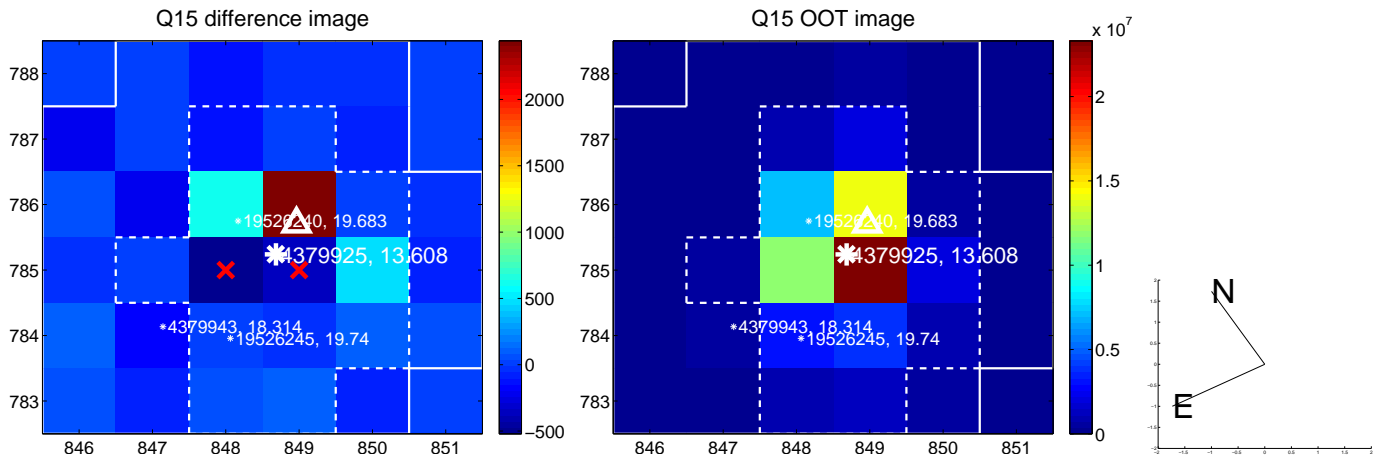
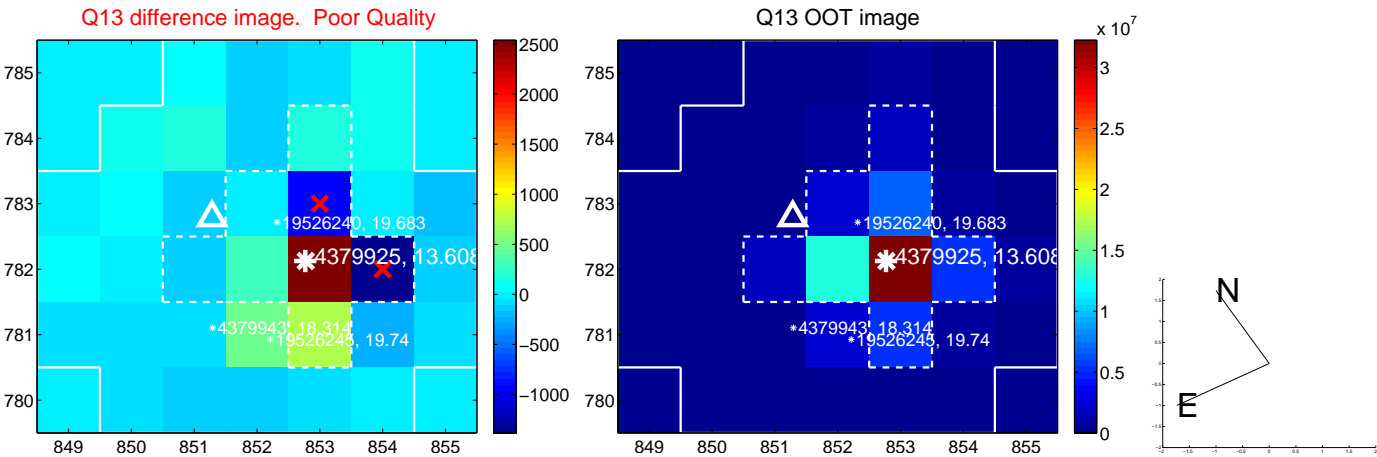
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



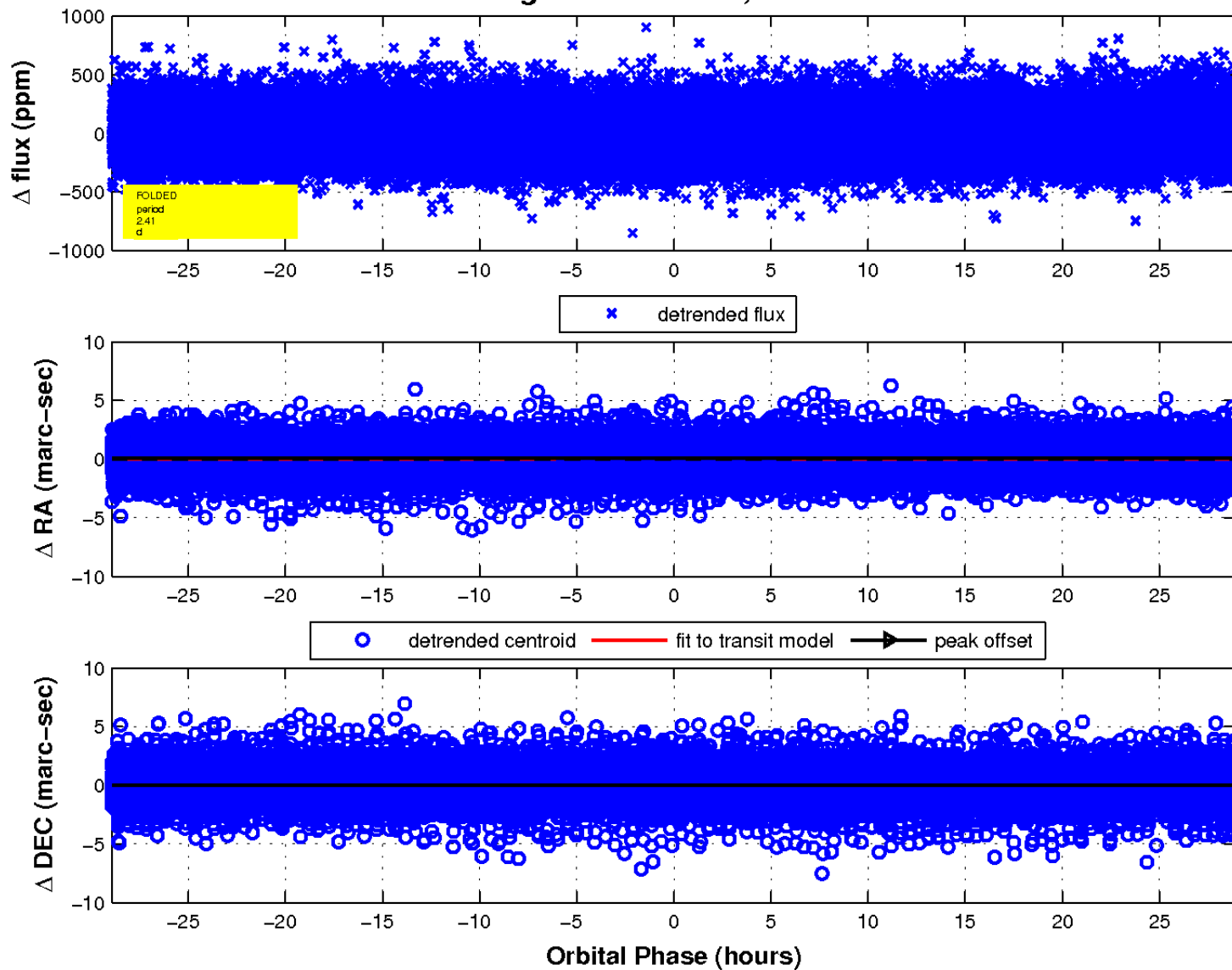
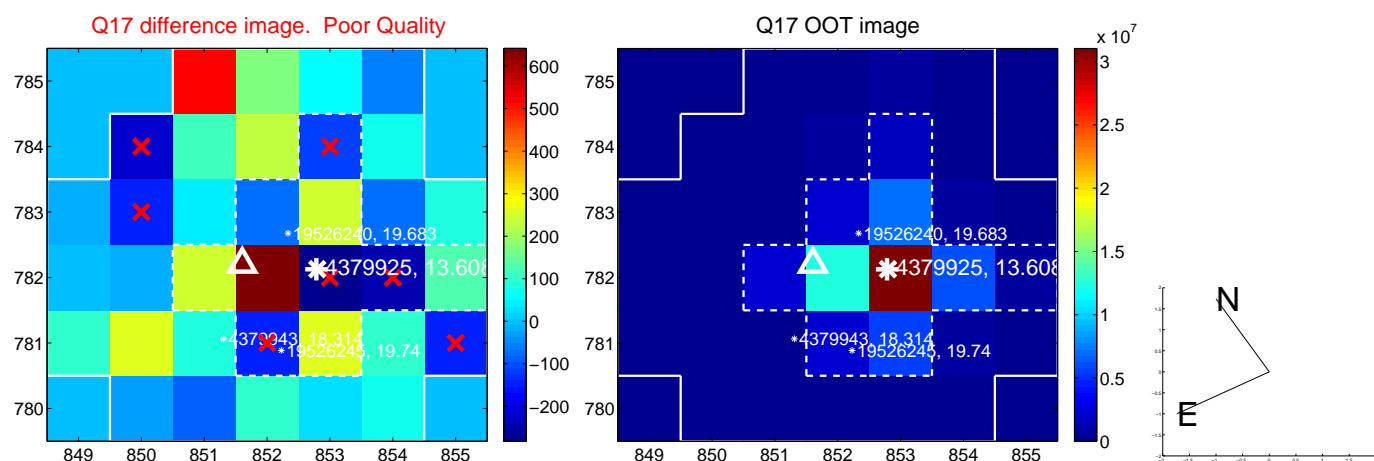
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

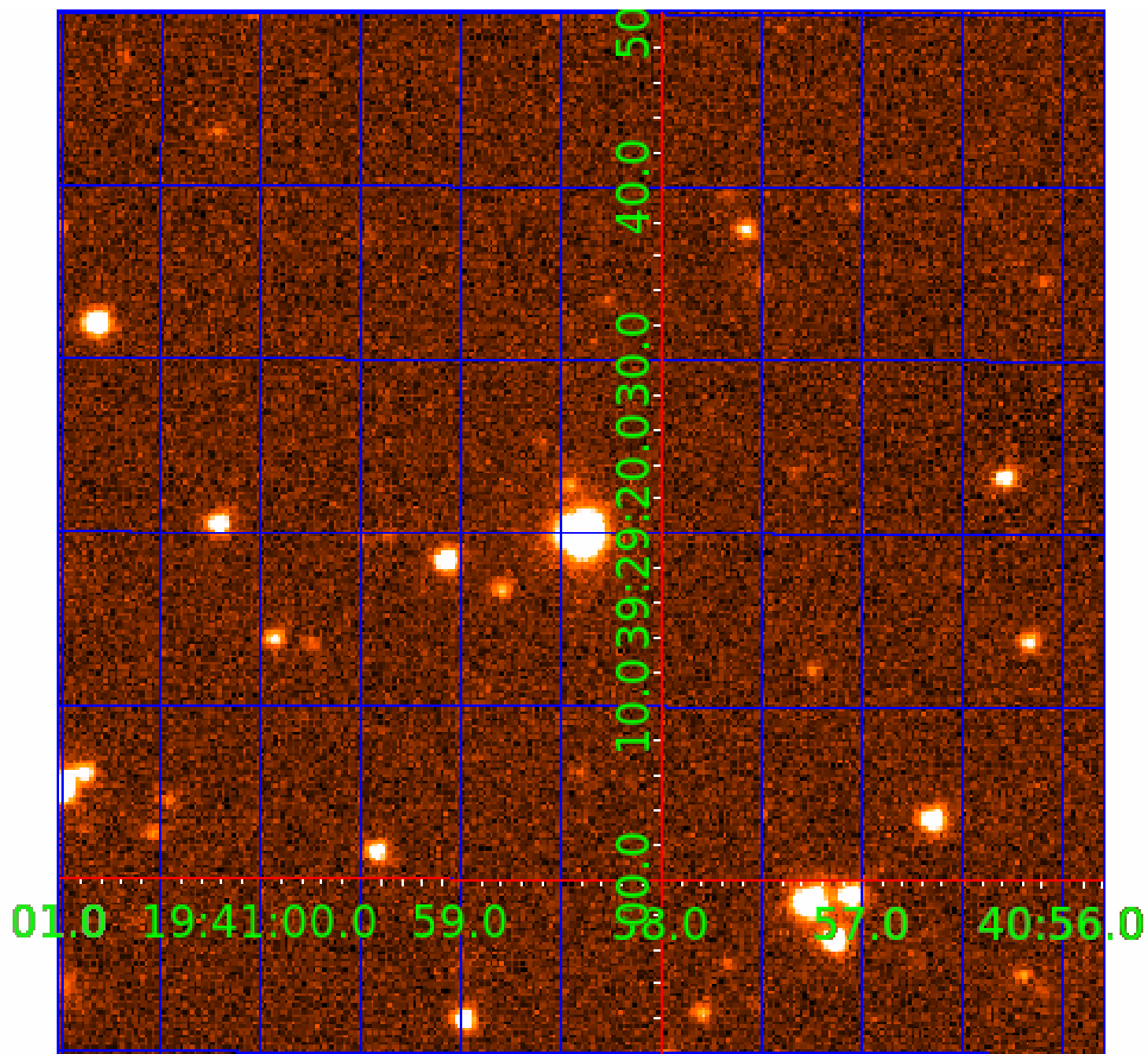


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 004379925

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})
004379925-01	OBS	No	2.411362	133.800677	19.0	14.817	10.5	9.9	2.07	7605	0.95	7103.63
004379925-02	OBS	No	60.987771	156.012996	290.5	1.742	8.1	7.4	2.07	7605	4.01	95.68
004379925-03	OBS	No	76.776385	195.153529	314.1	1.353	7.4	7.3	2.07	7605	3.99	70.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004379925-01	OBS	FP	0.00	1	0	0	0	LPP_DV
004379925-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_MEAS
004379925-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_UNCERTAIN

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

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

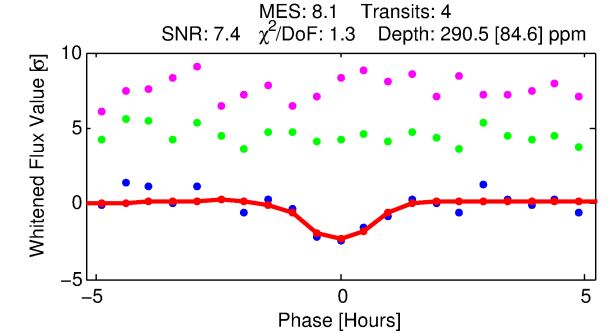
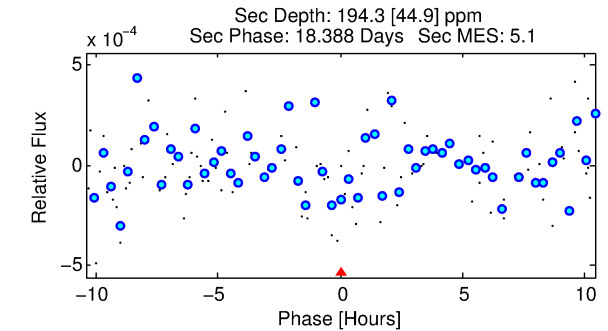
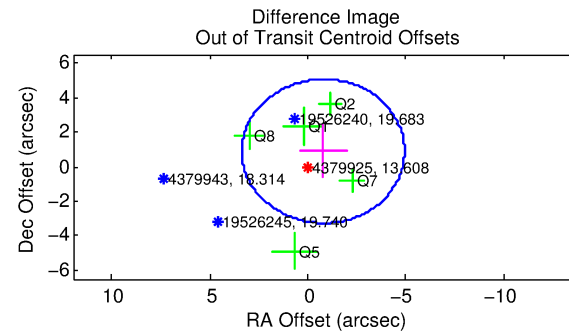
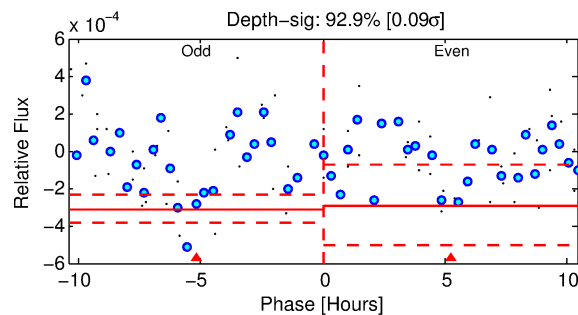
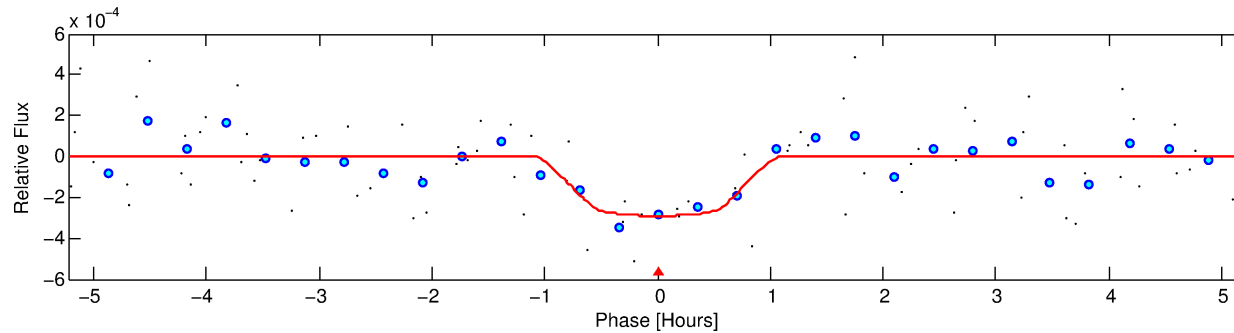
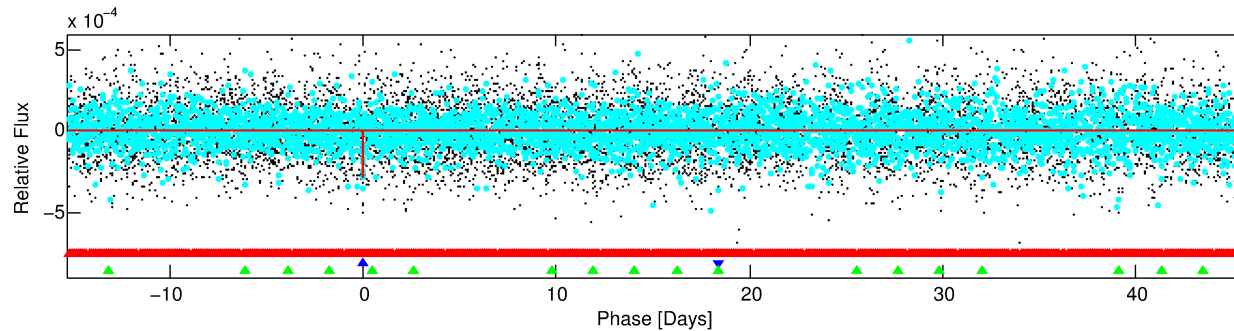
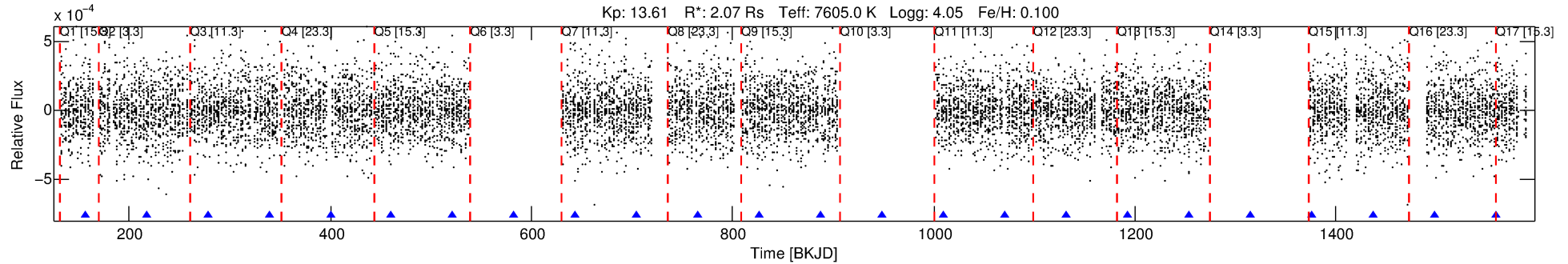
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004379925-02

No Significant Match Found

DV One-Page Summary

KIC: 4379925 Candidate: 2 of 3 Period: 60.988 d



DV Fit Results:

Period = 60.98777 [0.00102] d
Epoch = 156.0130 [0.0126] BKJD
Rp/R* = 0.0177 [0.0819]
a/R* = 142.79 [4322.66]
b = 0.87 [8.74]
Seff = 95.68 [31.64]
Teq = 798 [66] K
Rp = 4.02 [18.55] Re
a = 0.3671 [0.0727] AU
Ag = 893.44 [8252.37] [0.11σ]
Teffp = 6741 [15562] K [0.38σ]

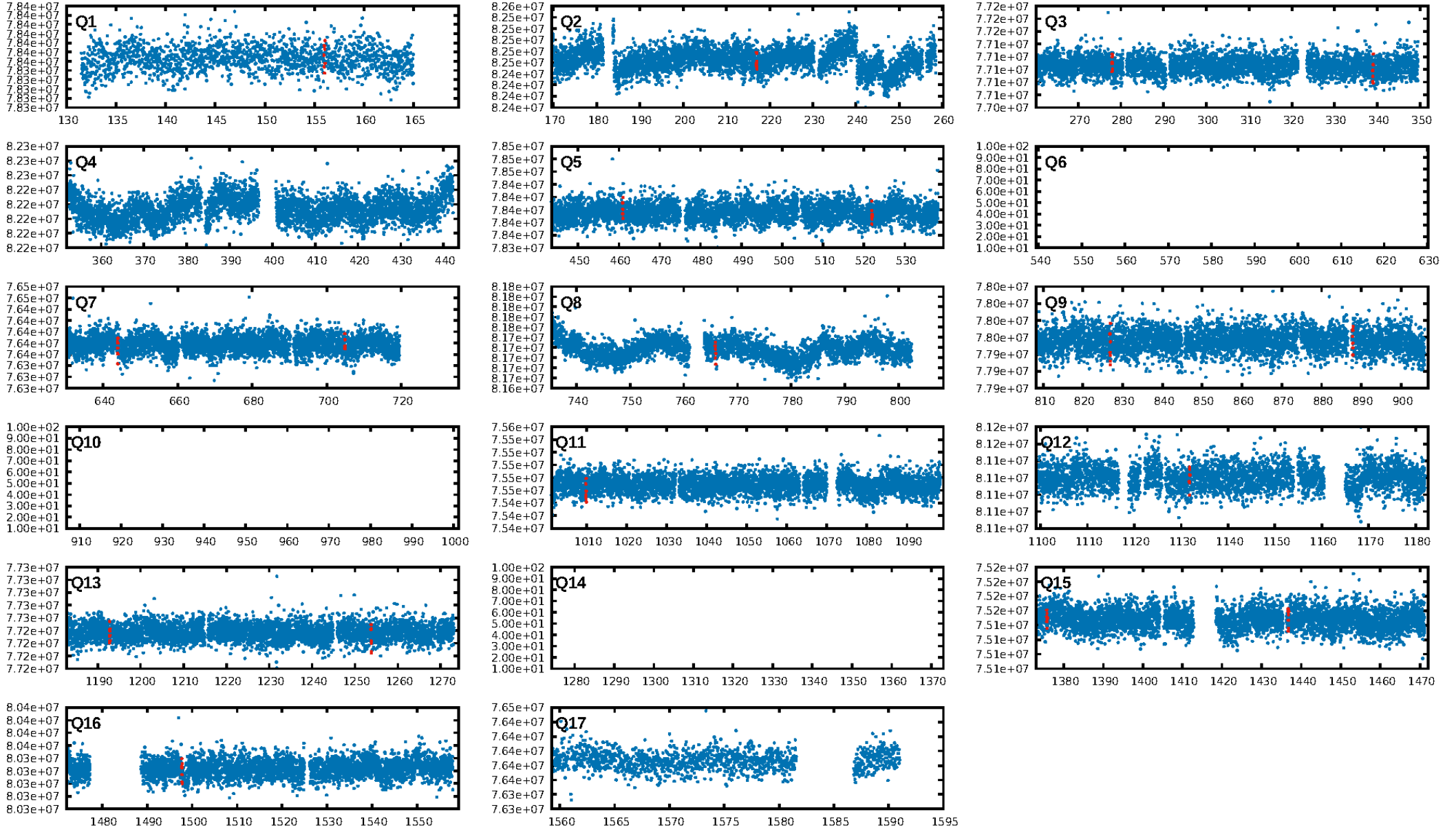
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [94.23σ]
LongPeriod-sig: 100.0% [171.82σ]
ModelChiSquare2-sig: 43.7%
ModelChiSquareGof-sig: 97.8%
Bootstrap-pfa: 8.08e-10
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -92.69
Centroid-sig: 38.3%
Centroid-so: 1.160 arcsec [0.88σ]
OotOffset-rm: 1.184 arcsec [0.85σ]
OotOffset-st: 1/1/1/2 [5]
KicOffset-rm: 1.152 arcsec [0.82σ]
KicOffset-st: 1/1/1/2 [5]
DiffImageQuality-fgm: 0.00 [0/5]
DiffImageOverlap-fno: 0.58 [7/12]

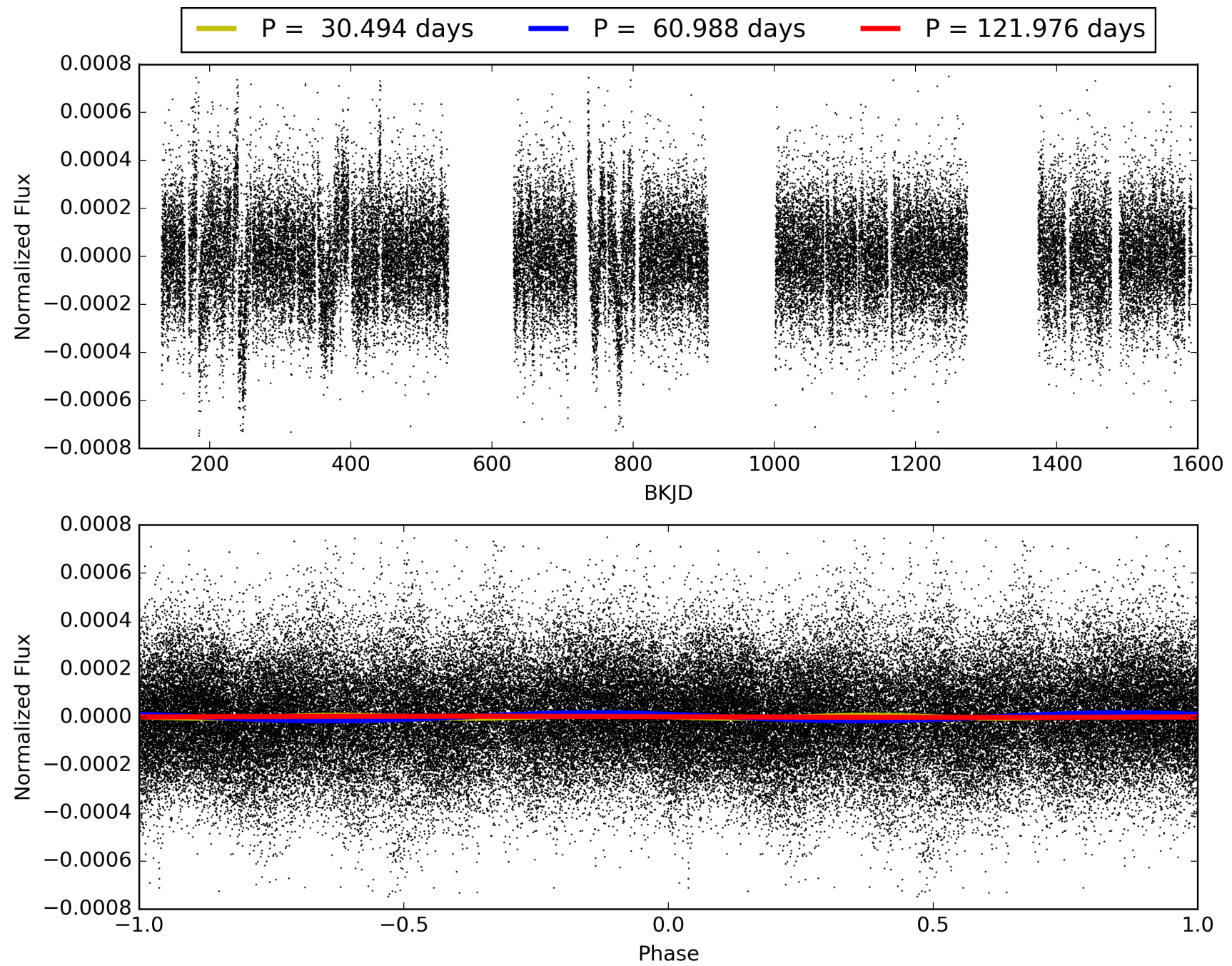
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:54:04 Z

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

TCE 004379925-02, PDC Light Curves

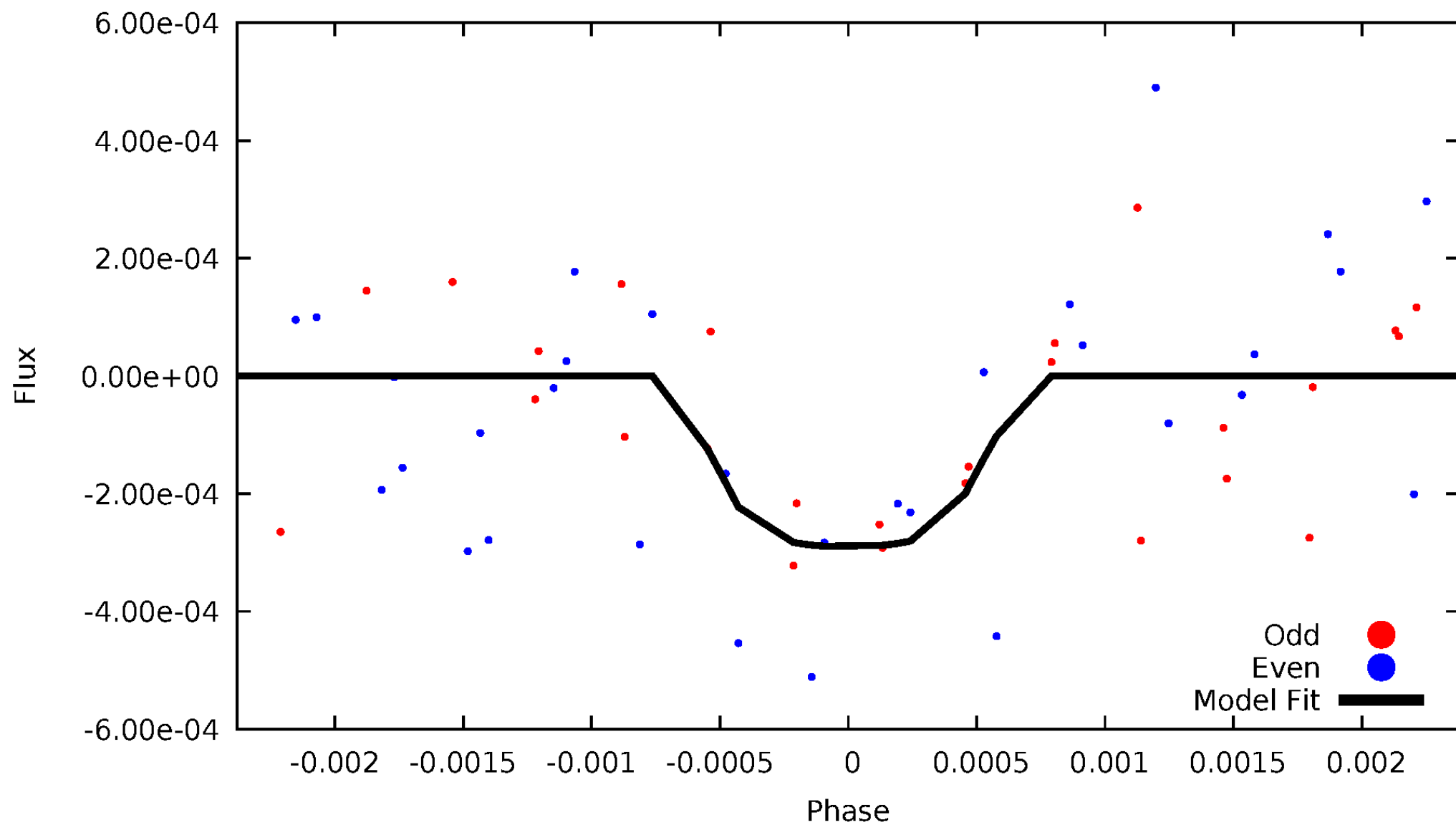


TCE 004379925-02



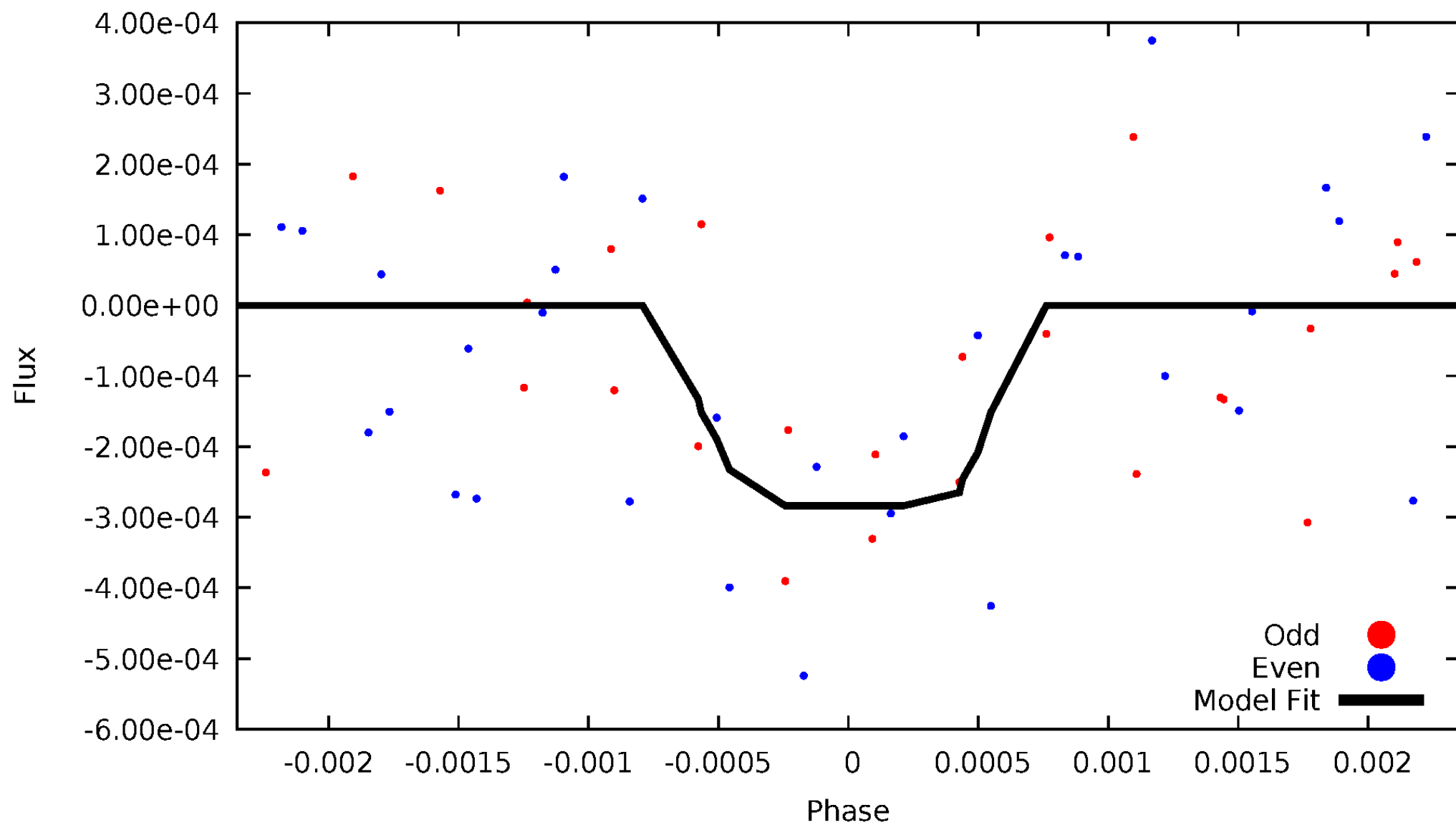
DV Odd/Even

TCE 004379925-02



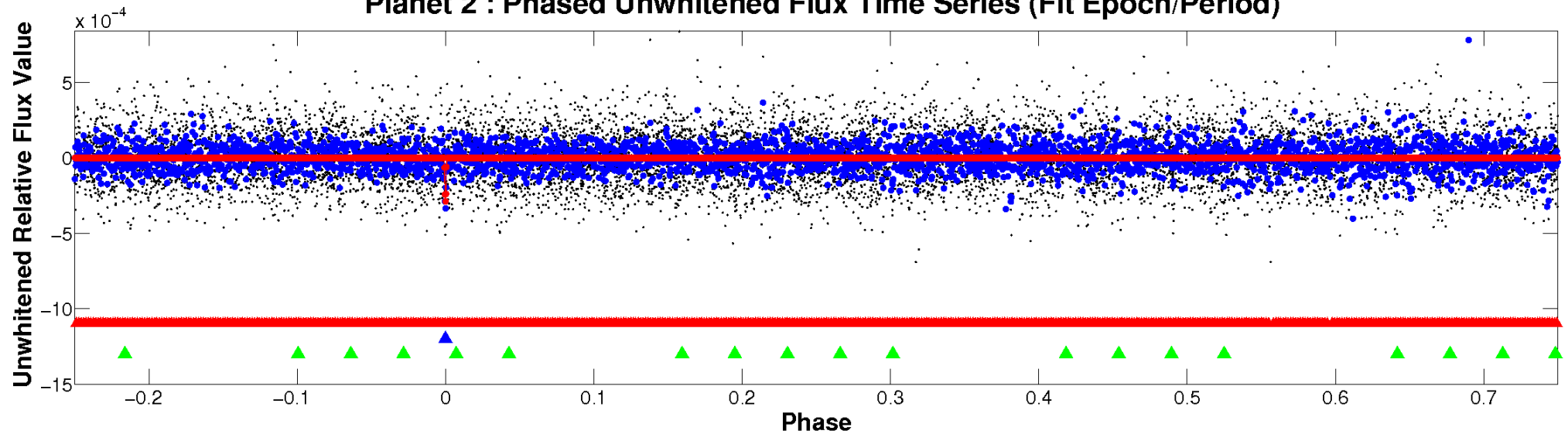
ALT Odd/Even

TCE 004379925-02

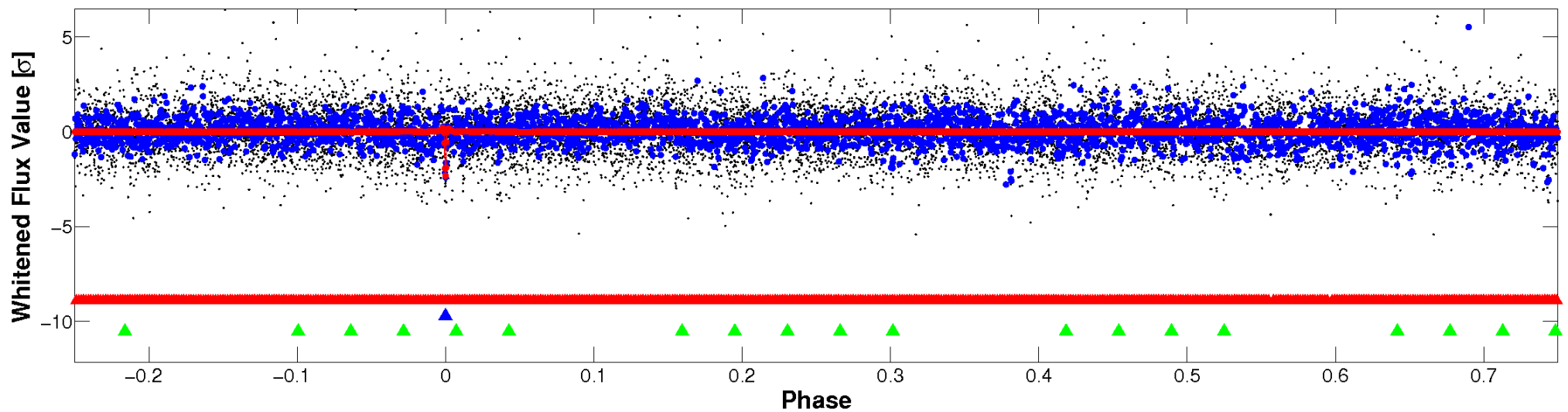


Non-Whitened Vs. Whitened Light Curve

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

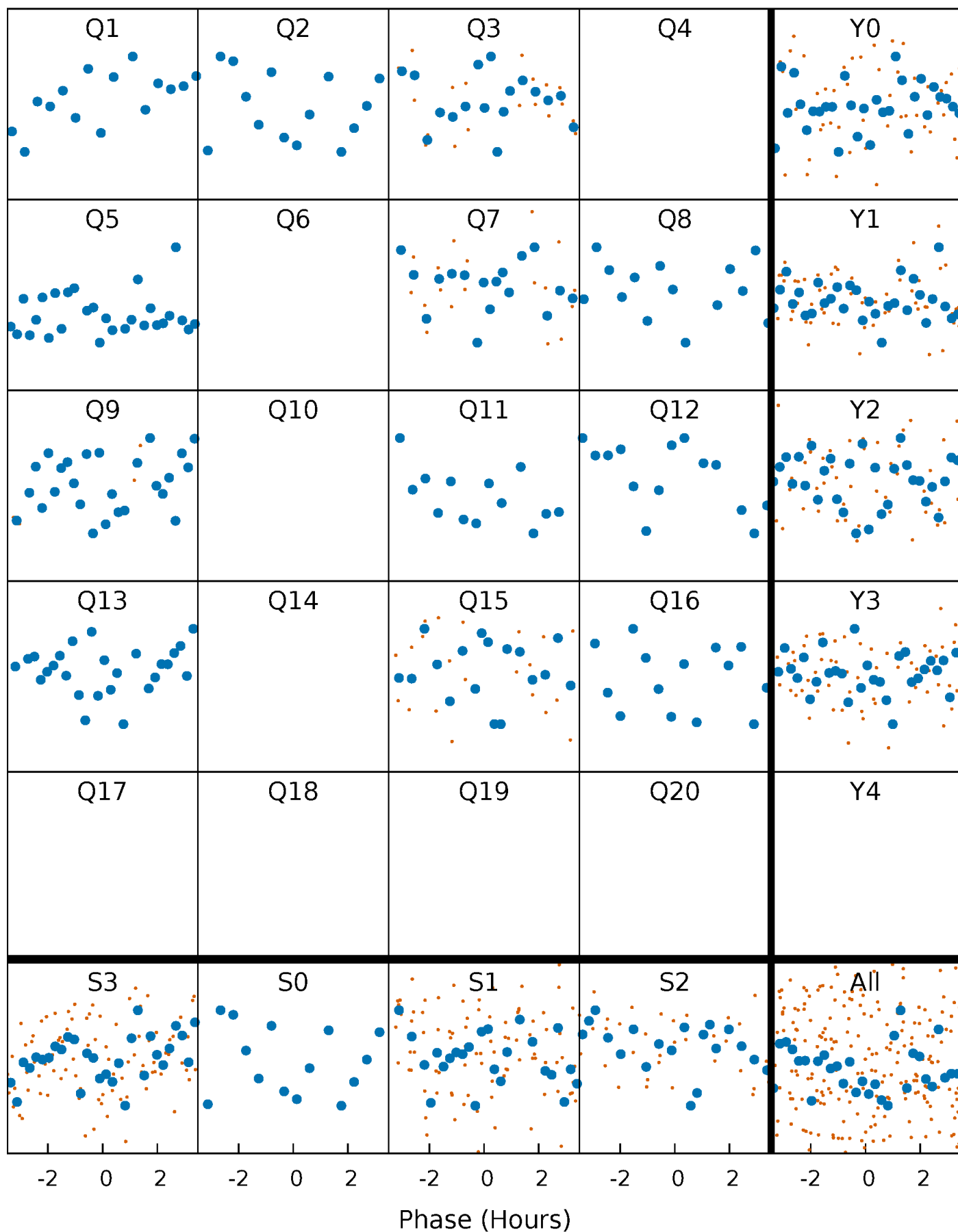


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



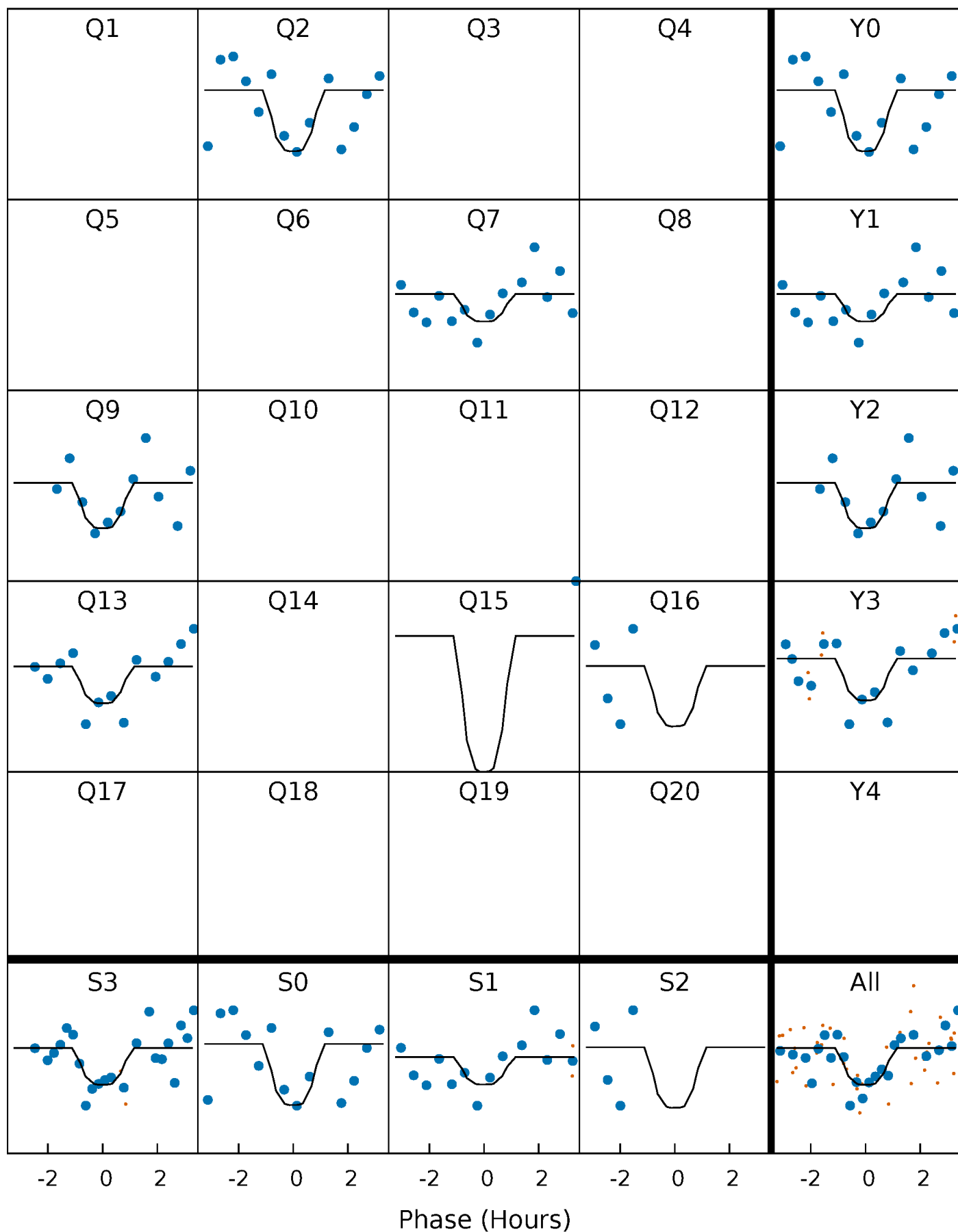
PDC Quarter-Phased Transit Curves

TCE 004379925-02 P= 60.987771 Days $T_0=156.012996$ (BKJD)



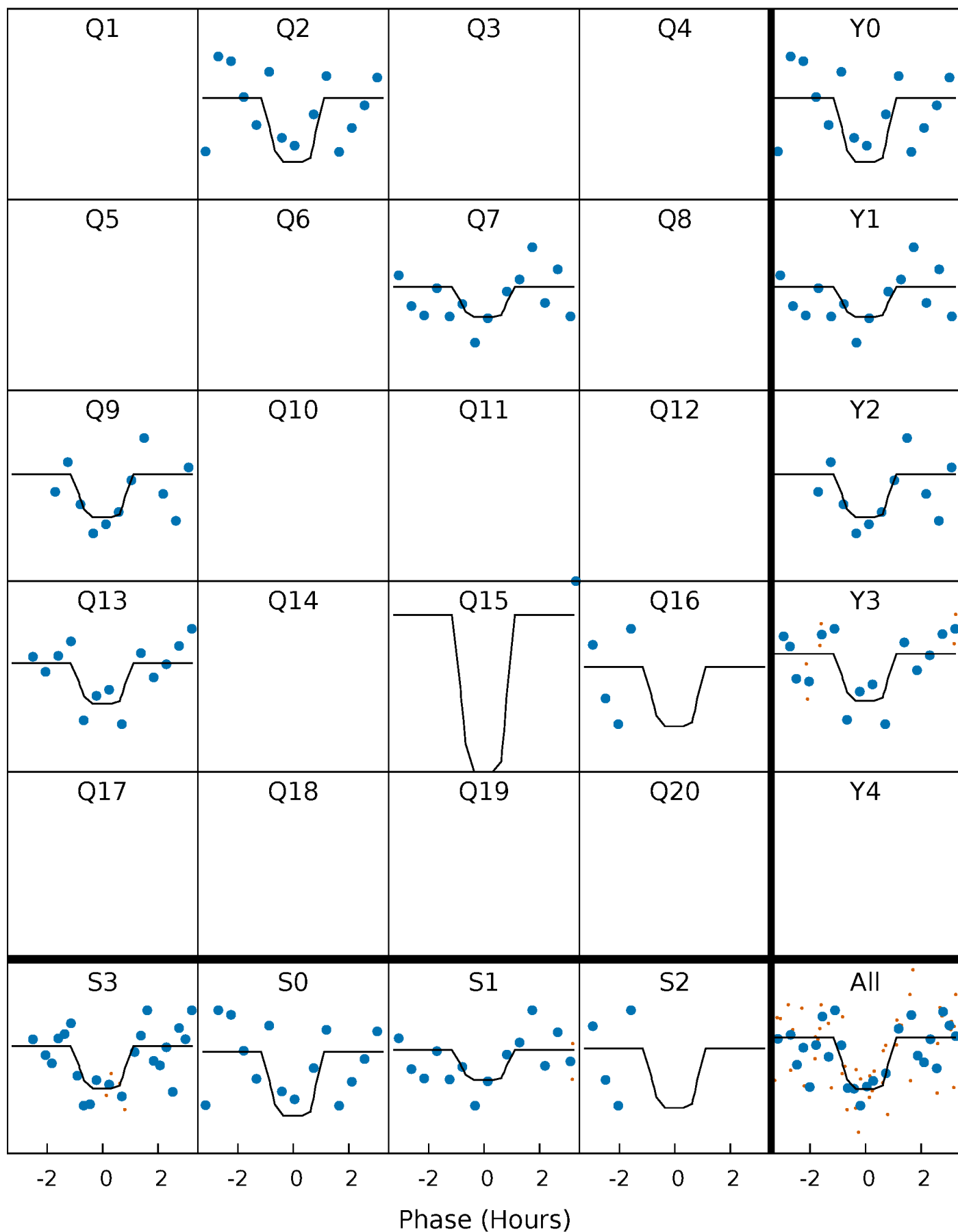
DV Quarter-Phased Transit Curves

TCE 004379925-02 P= 60.987771 Days $T_0=156.012996$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

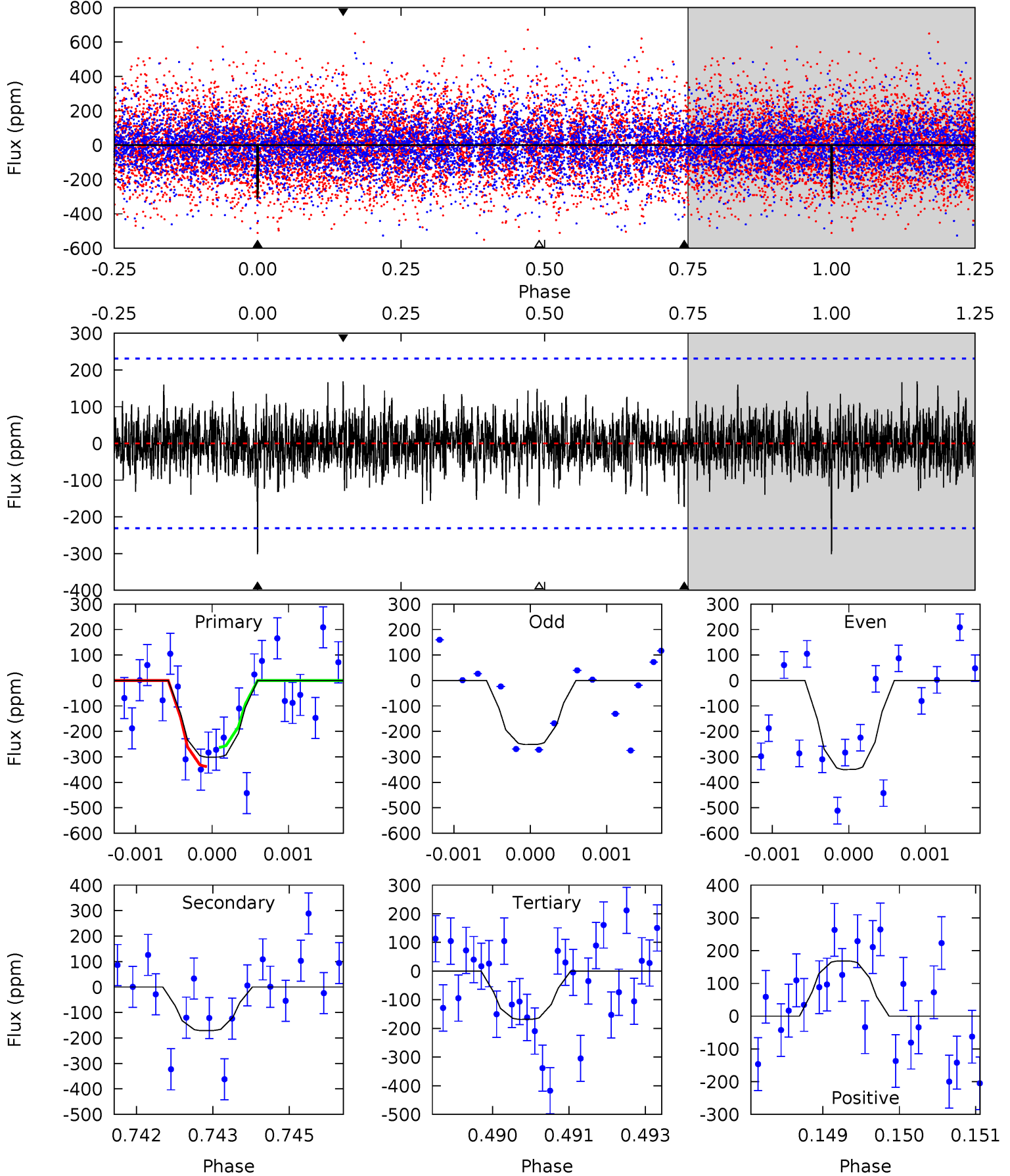
TCE 004379925-02 P= 60.987769 Days $T_0=156.014794$ (BKJD)



DV Model-Shift Uniqueness Test

004379925-02, P = 60.987771 Days, E = 95.025225 Days

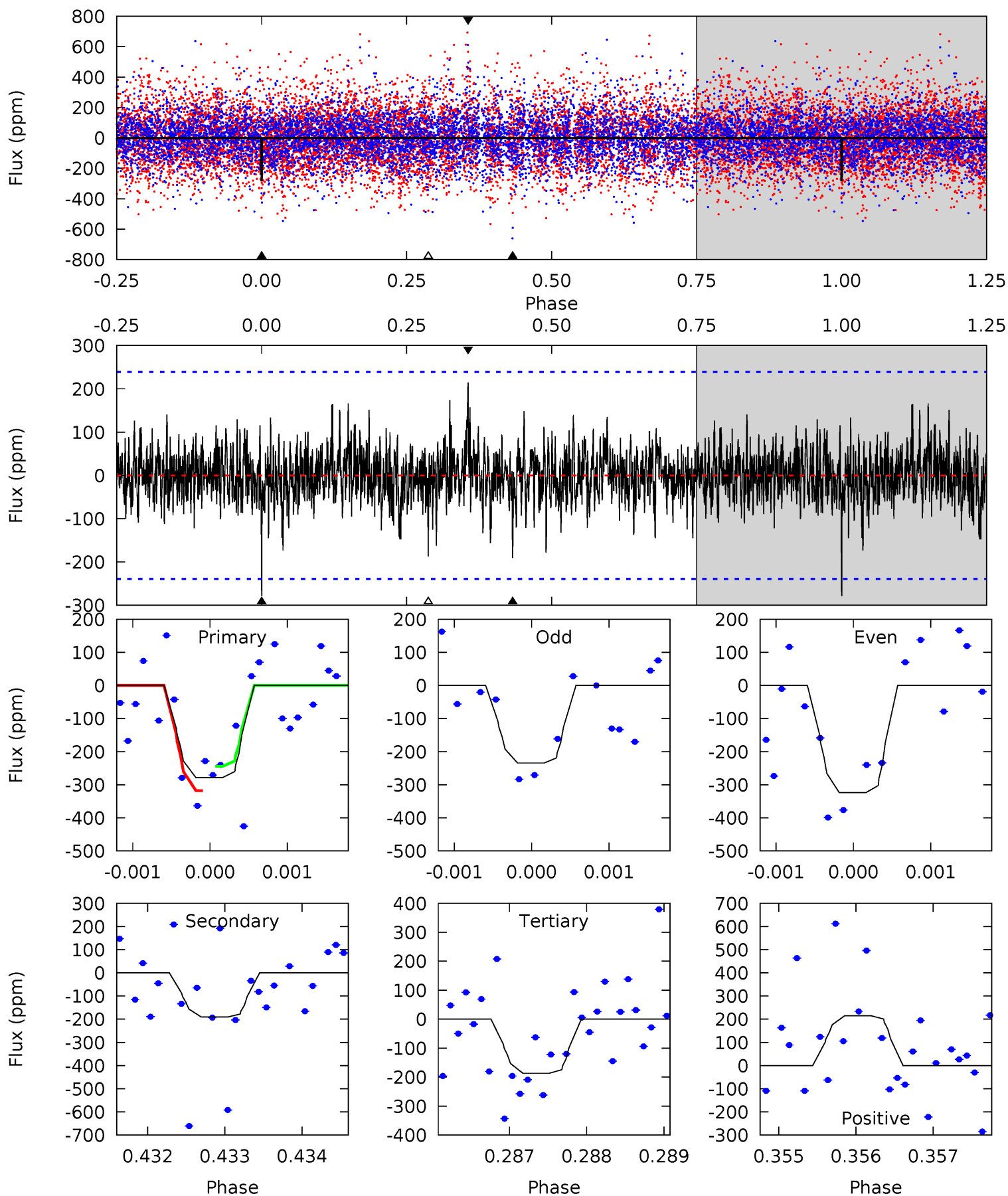
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.05	4.00	3.94	3.94	5.40	3.21	1.12	3.11	3.11	0.06	0.06	1.14	1.00	0.36	0.87



Alt Model-Shift Uniqueness Test

004379925-02, P = 60.987769 Days, E = 95.027025 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.30	4.31	4.22	4.86	5.40	3.21	1.10	2.08	1.44	0.09	-0.55	1.00	0.86	0.44	0.82



Stellar Parameters For KIC 004379925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7605^{+211}_{-316}	$4.053^{+0.155}_{-0.155}$	$0.100^{+0.150}_{-0.350}$	$2.074^{+0.493}_{-0.444}$	$1.773^{+0.195}_{-0.292}$	$0.280^{+0.224}_{-0.124}$
	+3%/-4%	+4%/-4%	+150%/-350%	+24%/-21%	+11%/-16%	+80%/-44%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 004379925-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-171 ± 43	$14.46^{+15.39}_{-9.96}$	1115^{+71}_{-79}	3731^{+2366}_{-767}	58^{+576}_{-45}
Alt.	-191 ± 44	$14.16^{+14.17}_{-9.96}$	1115^{+78}_{-75}	3900^{+2349}_{-840}	71^{+652}_{-55}

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

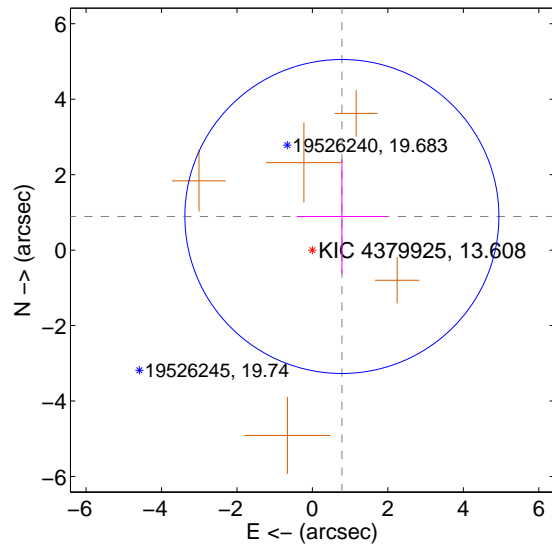
Supplemental centroid analysis for 004379925-02. Kepler magnitude: 13.61. Transit SNR 7.37

There are 0 quarters with good PRF difference image offsets

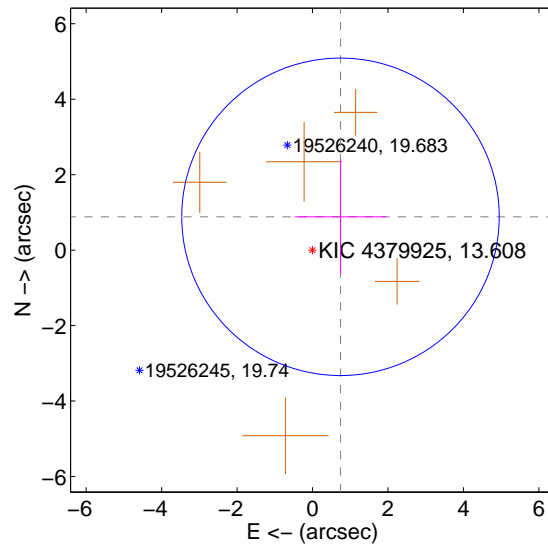
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.184 ± 1.387	0.85	-0.780 ± 1.197	0.891 ± 1.516
PRF-fit source offset from KIC position	1.152 ± 1.402	0.82	-0.741 ± 1.210	0.882 ± 1.524
photometric centroid source offset	1.16 ± 1.32	0.88	-1.04 ± 1.32	-0.52 ± 1.32

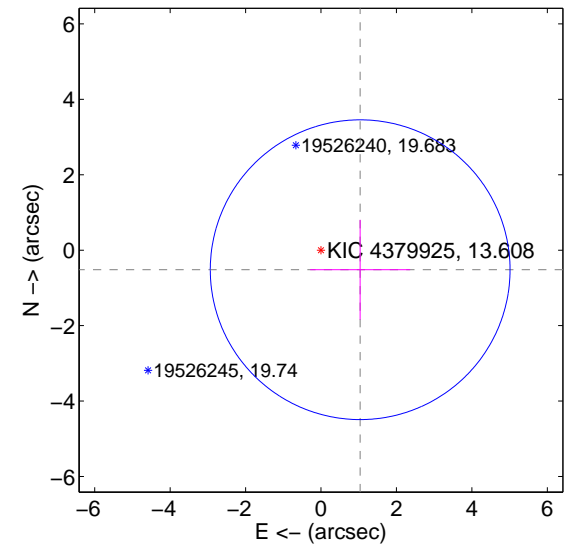
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

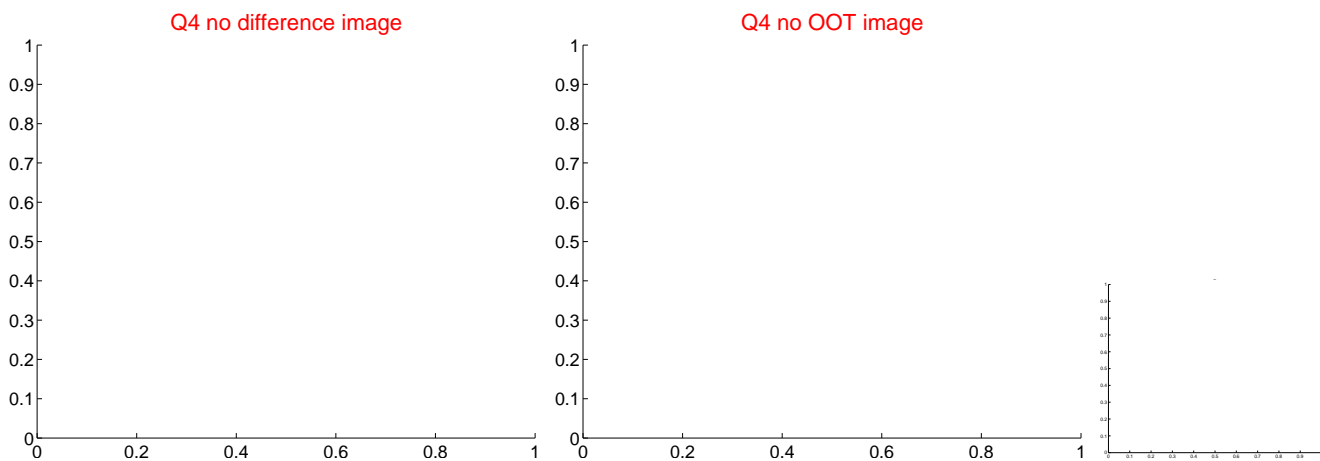
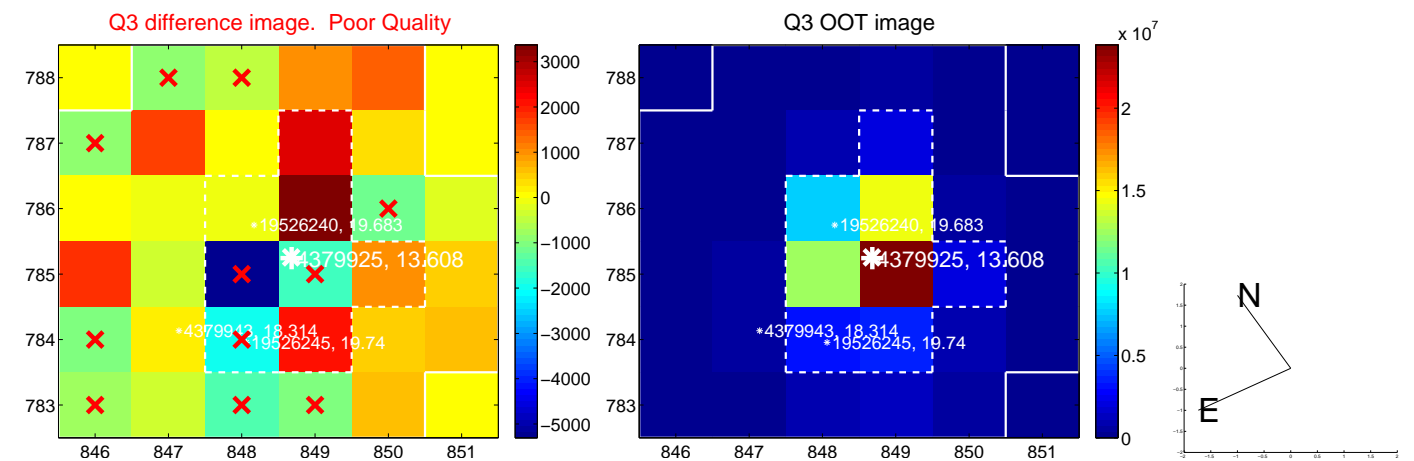
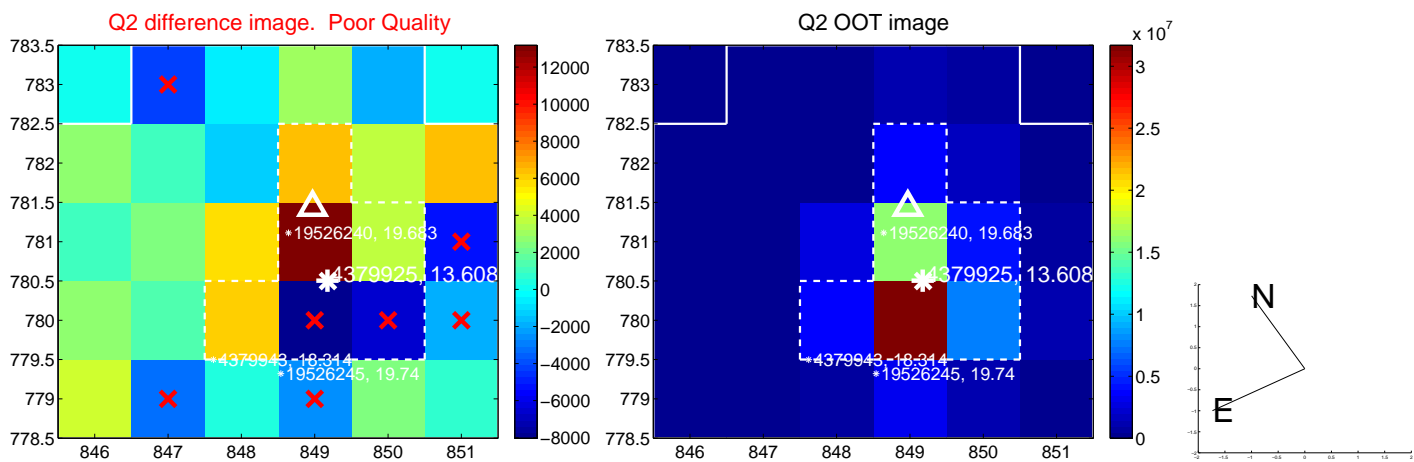
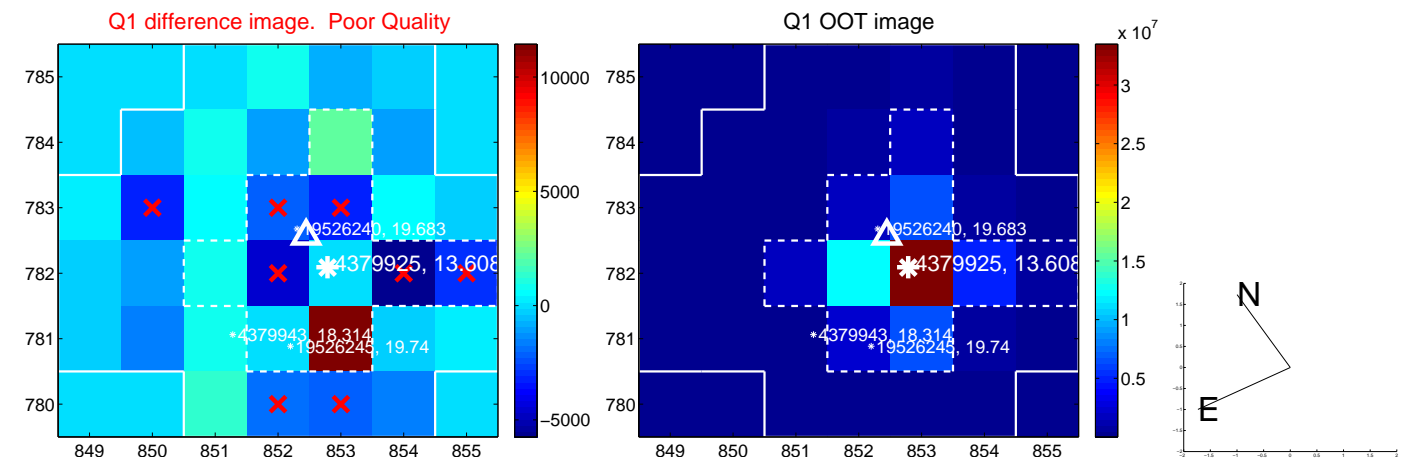


offset from photometric centroids

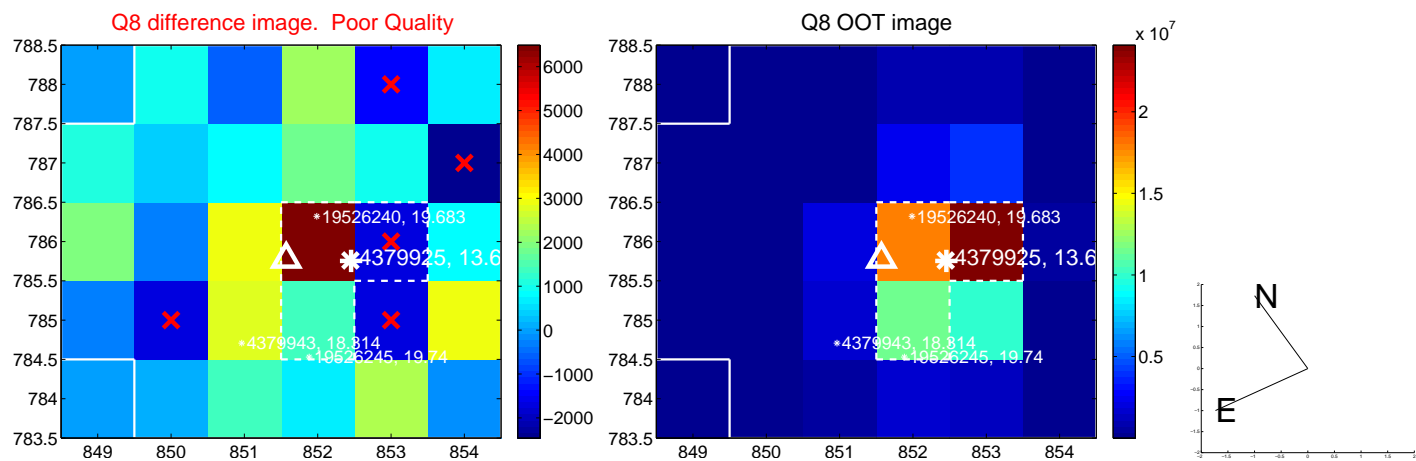
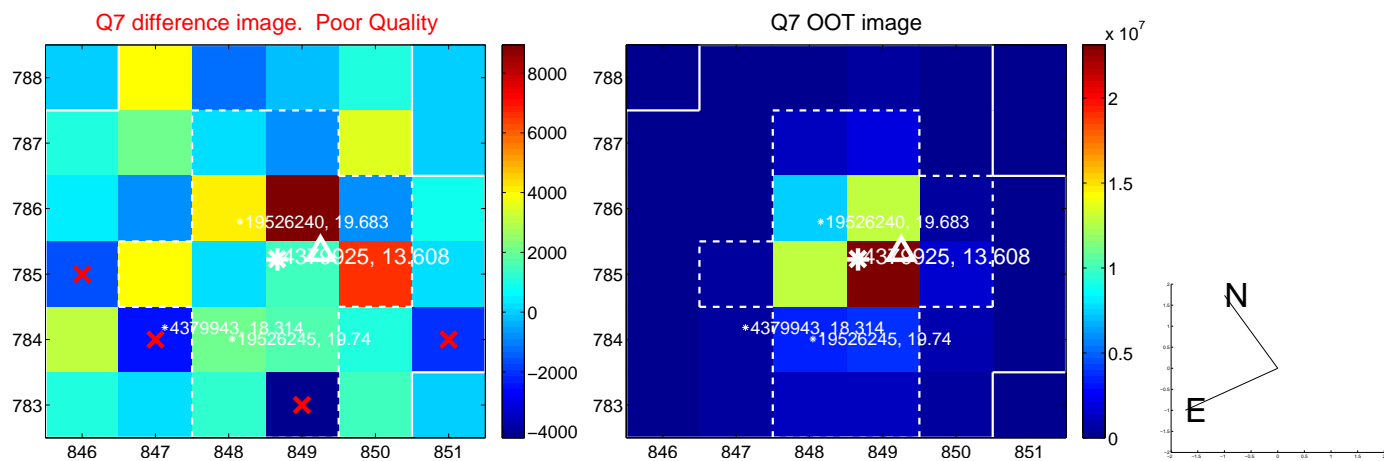
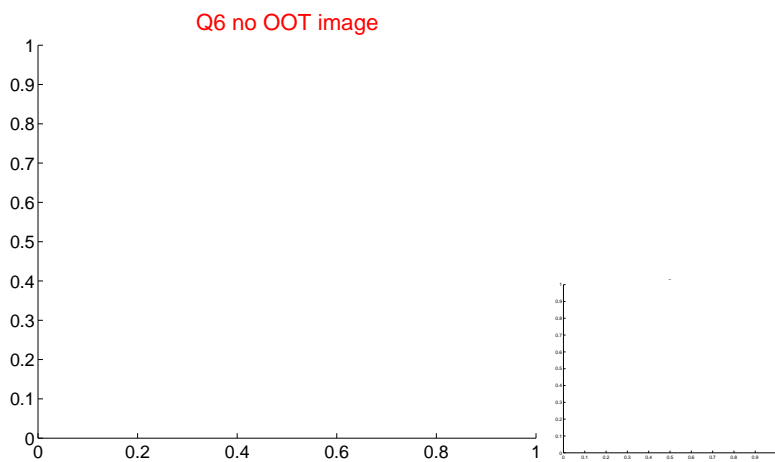
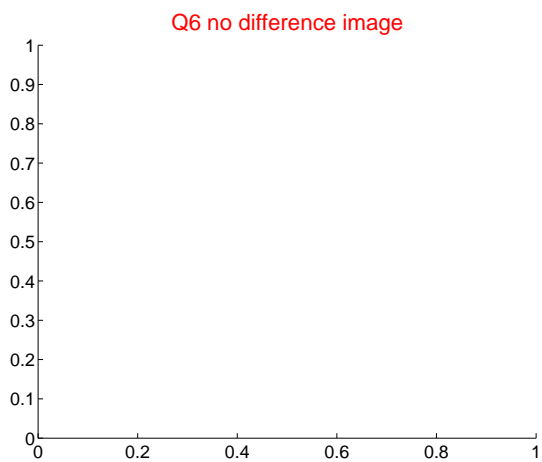
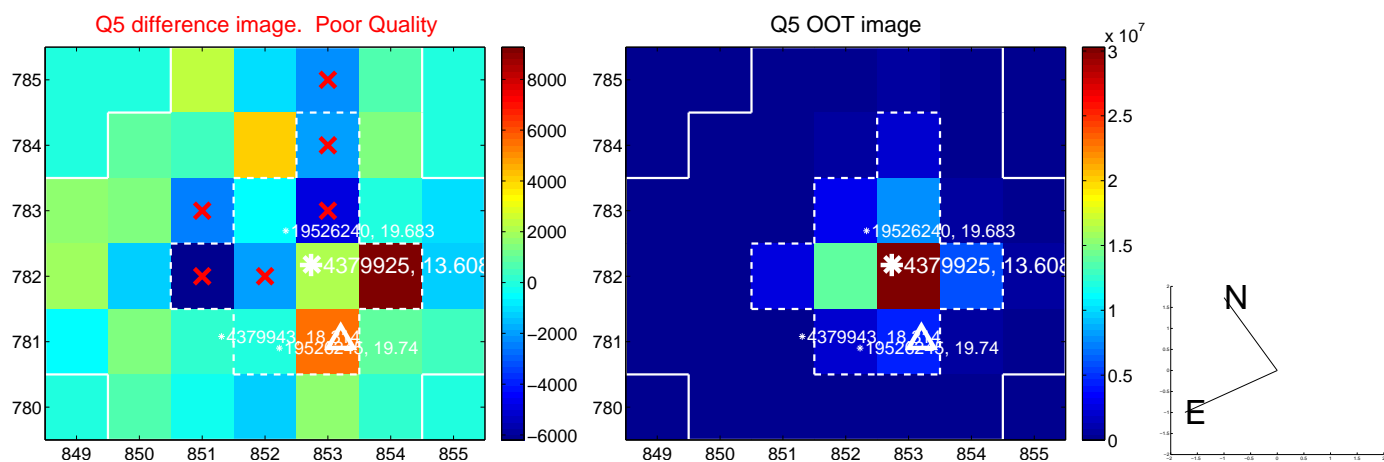


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

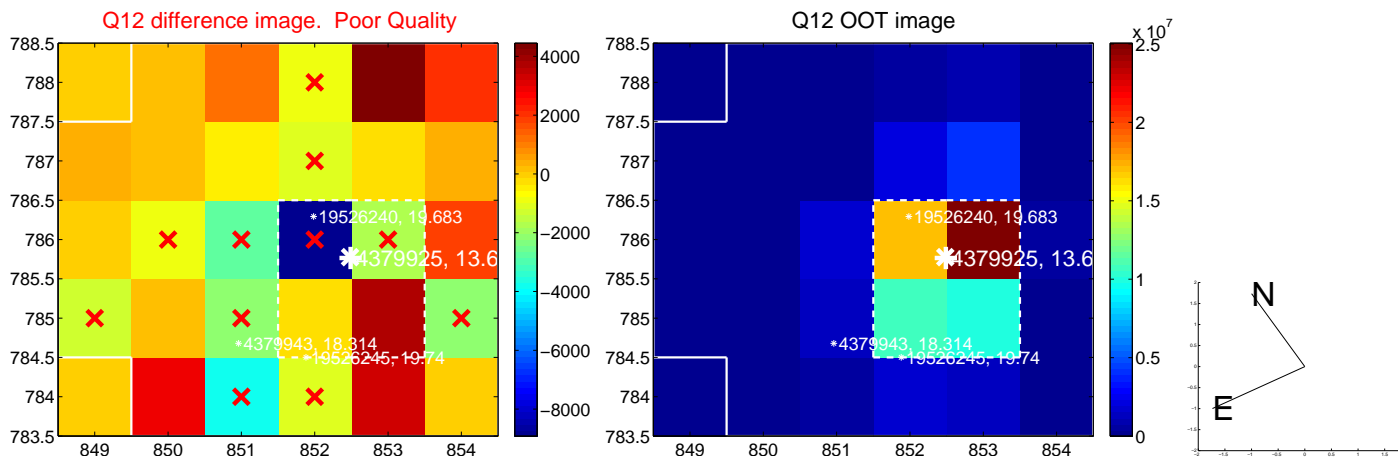
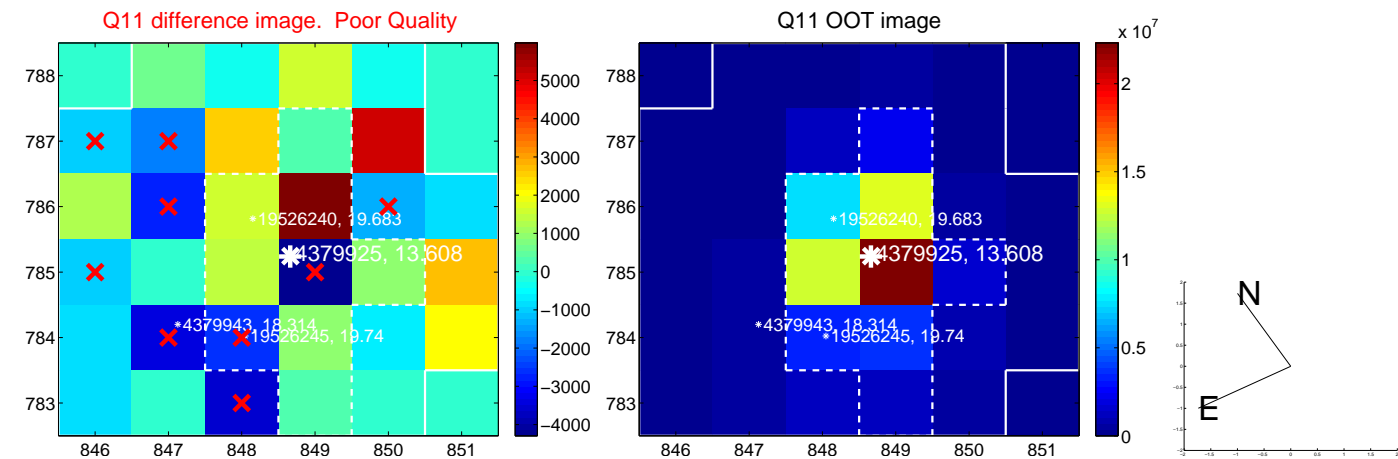
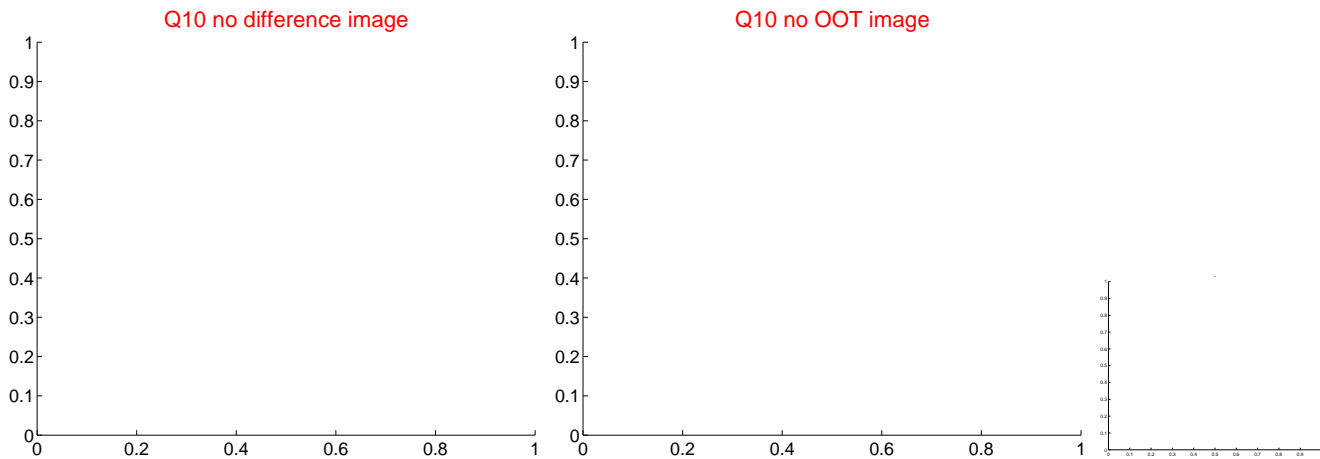
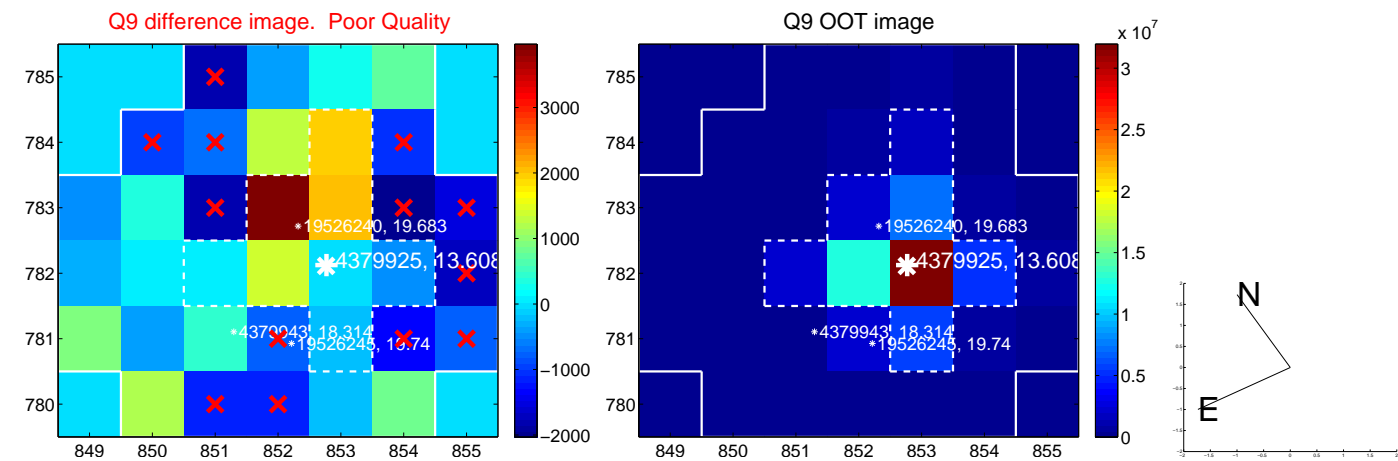
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



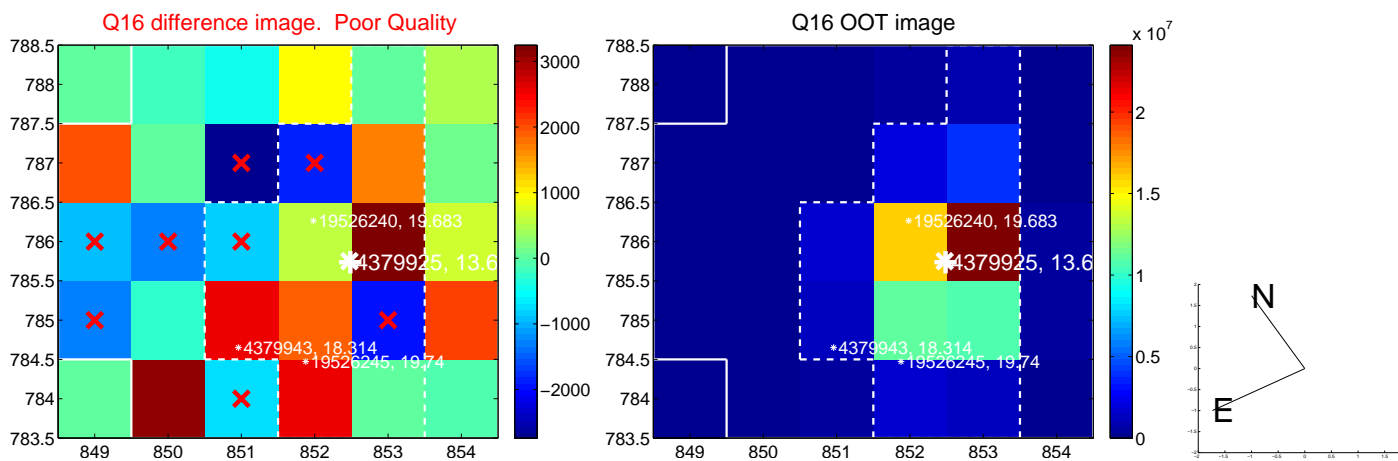
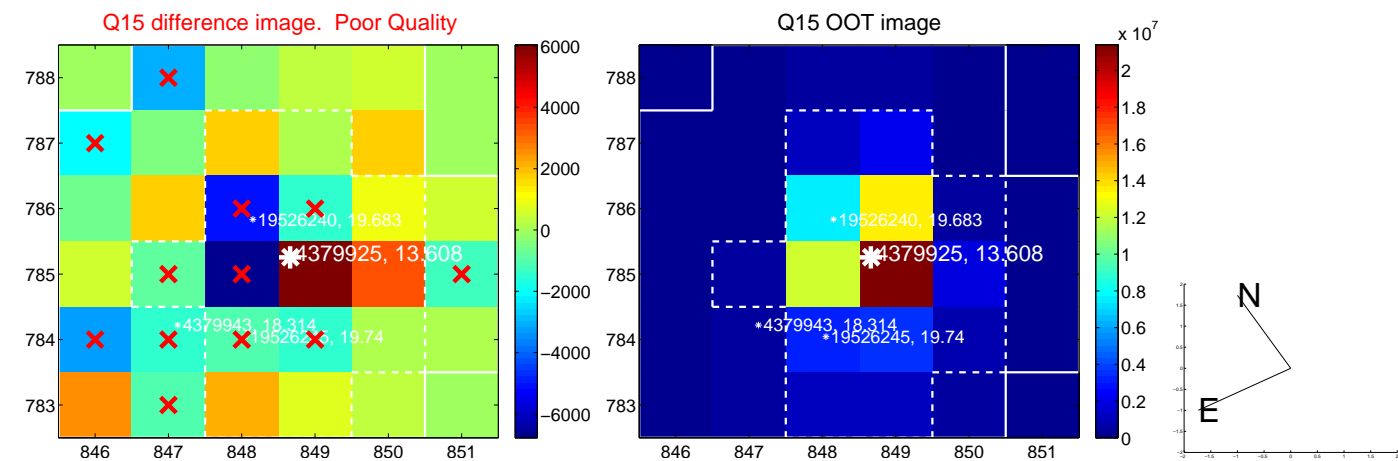
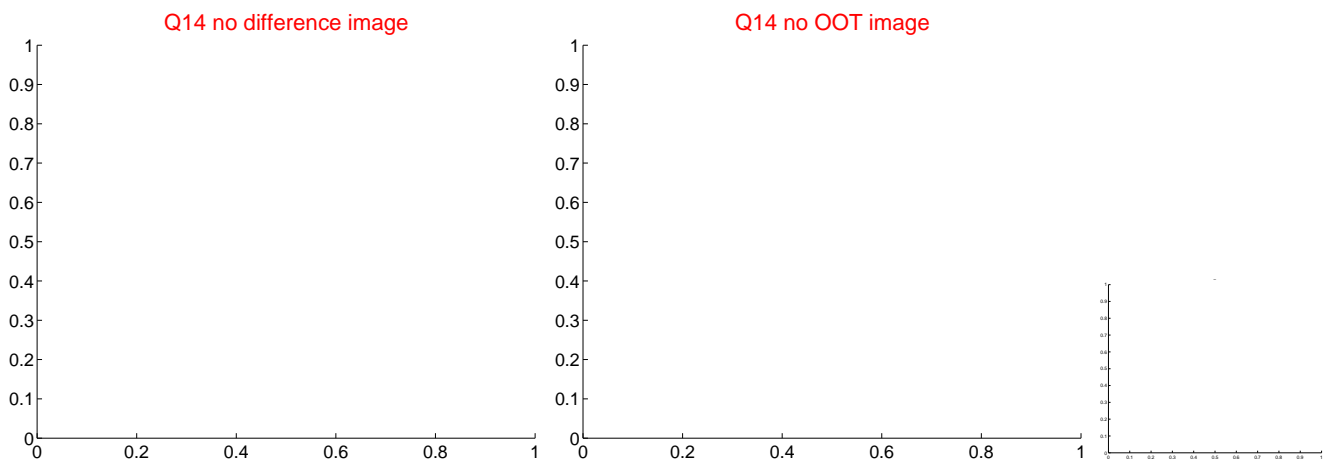
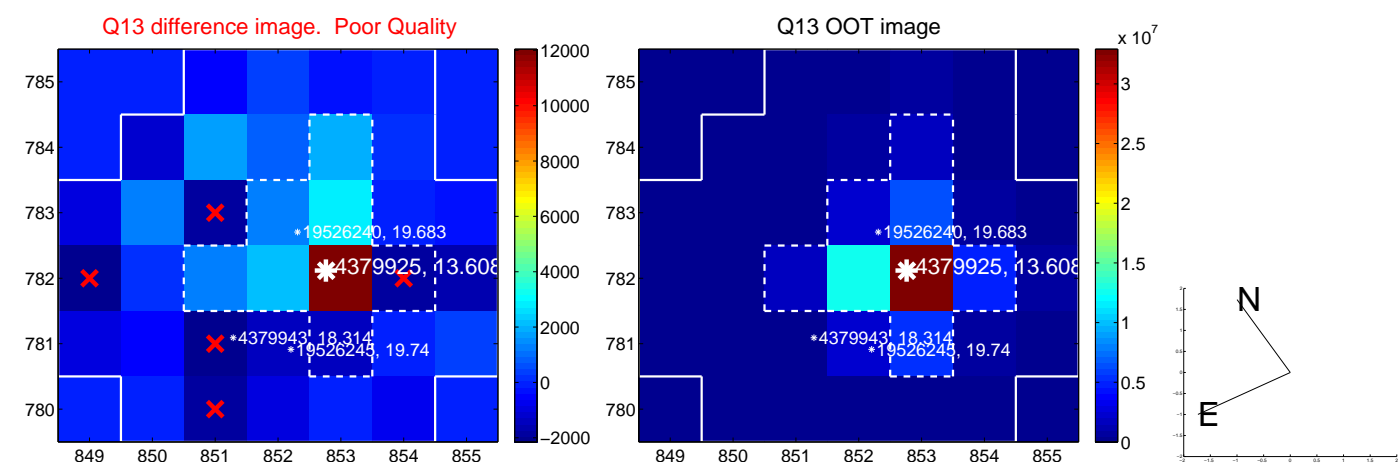
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



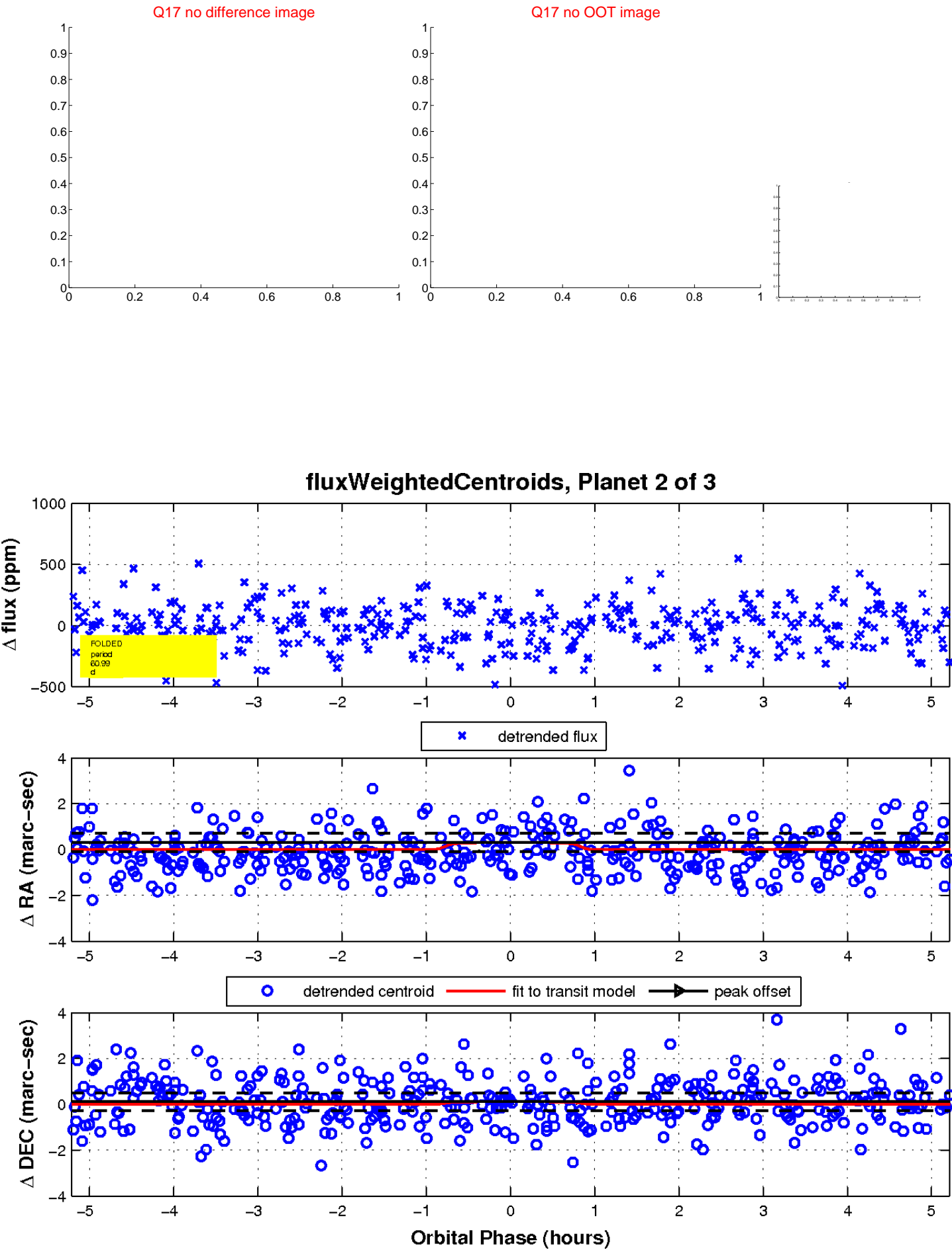
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

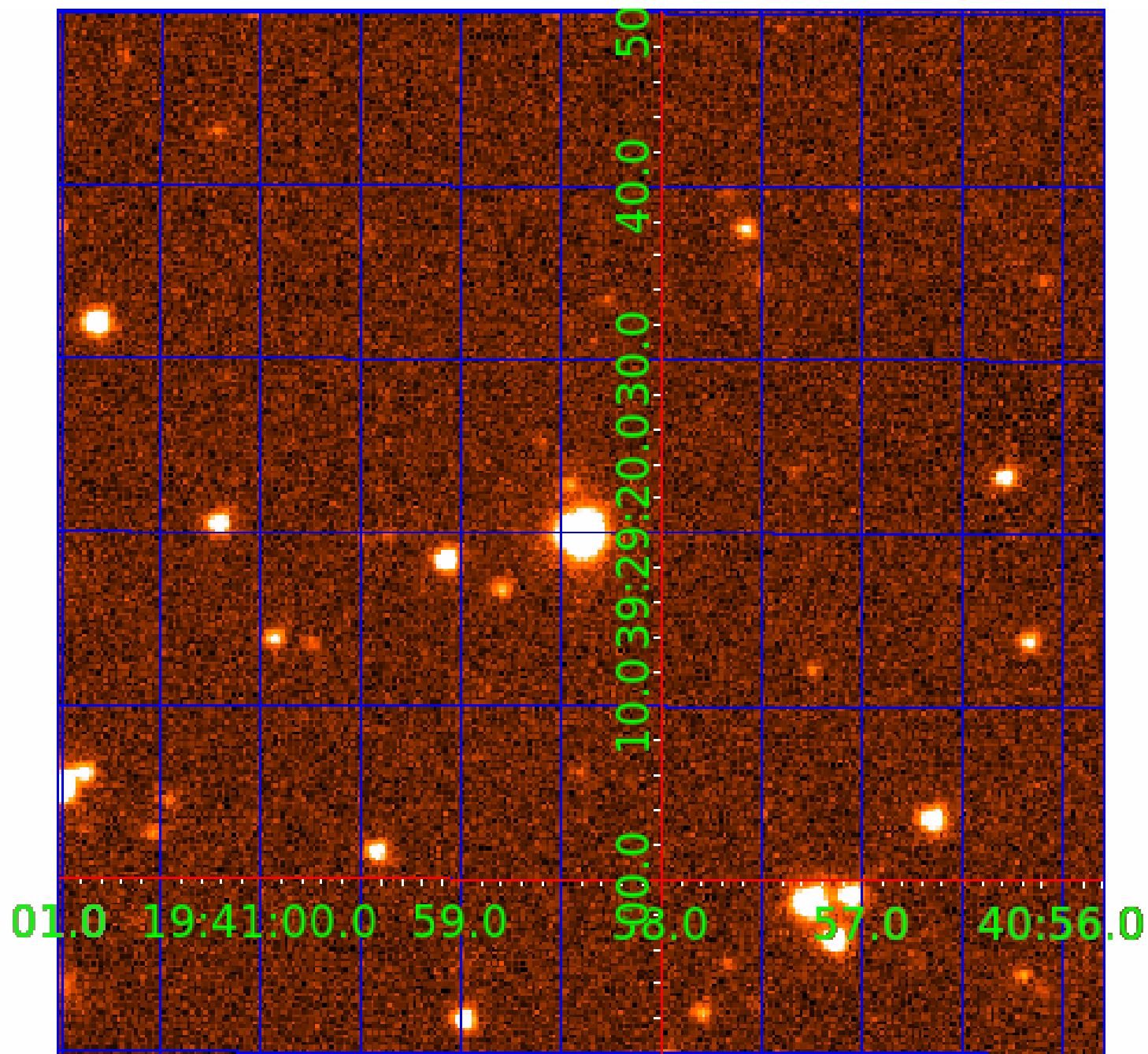


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 004379925

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})
004379925-01	OBS	No	2.411362	133.800677	19.0	14.817	10.5	9.9	2.07	7605	0.95	7103.63
004379925-02	OBS	No	60.987771	156.012996	290.5	1.742	8.1	7.4	2.07	7605	4.01	95.68
004379925-03	OBS	No	76.776385	195.153529	314.1	1.353	7.4	7.3	2.07	7605	3.99	70.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004379925-01	OBS	FP	0.00	1	0	0	0	LPP_DV
004379925-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_MEAS
004379925-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_UNCERTAIN

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

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

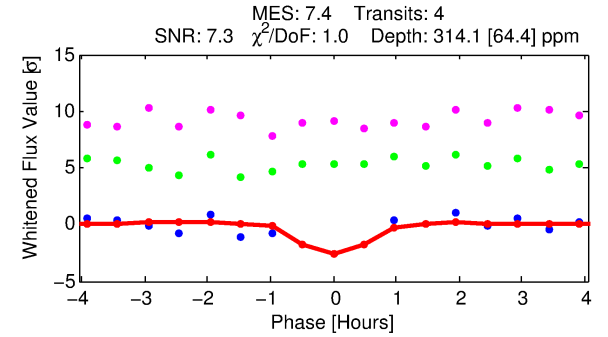
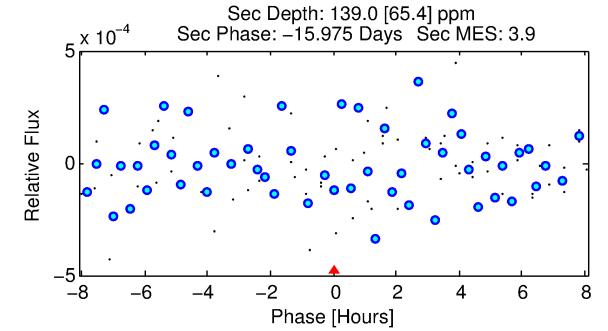
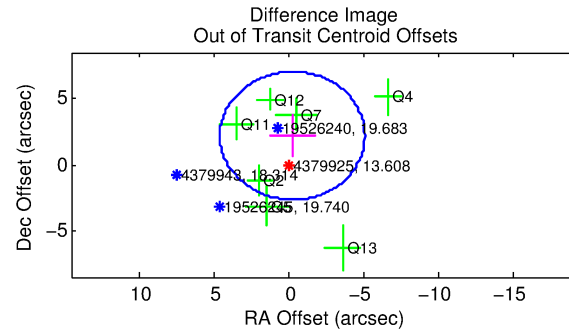
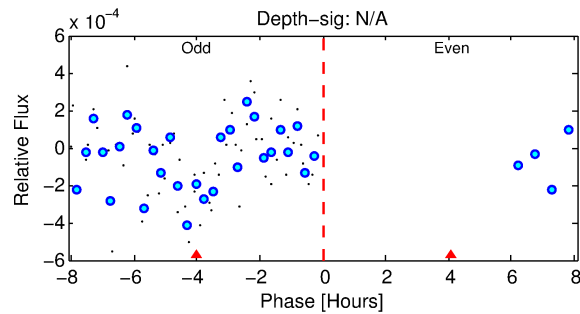
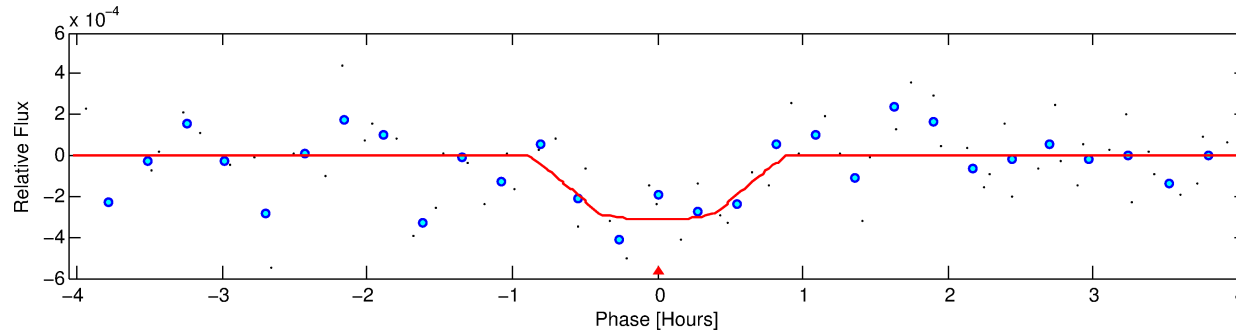
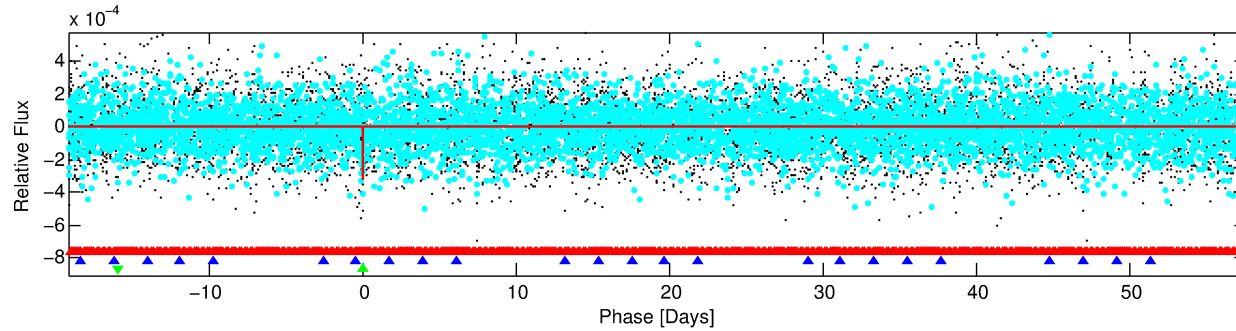
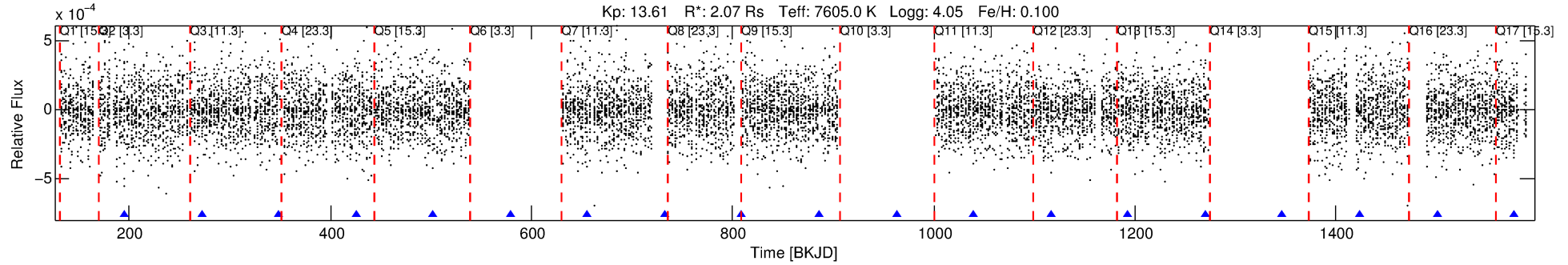
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004379925-03

No Significant Match Found

DV One-Page Summary

KIC: 4379925 Candidate: 3 of 3 Period: 76.776 d



DV Fit Results:

Period = 76.77639 [0.00079] d
Epoch = 195.1535 [0.0072] BKJD
Rp/R* = 0.0176 [0.0243]
a/R* = 302.55 [2664.87]
b = 0.74 [5.39]
Seff = 70.39 [23.28]
Teq = 739 [61] K
Rp = 3.99 [5.58] Re
a = 0.4279 [0.0848] AU
Ag = 878.34 [2467.82] [0.36σ]
Teffp = 6217 [4352] K [1.26σ]

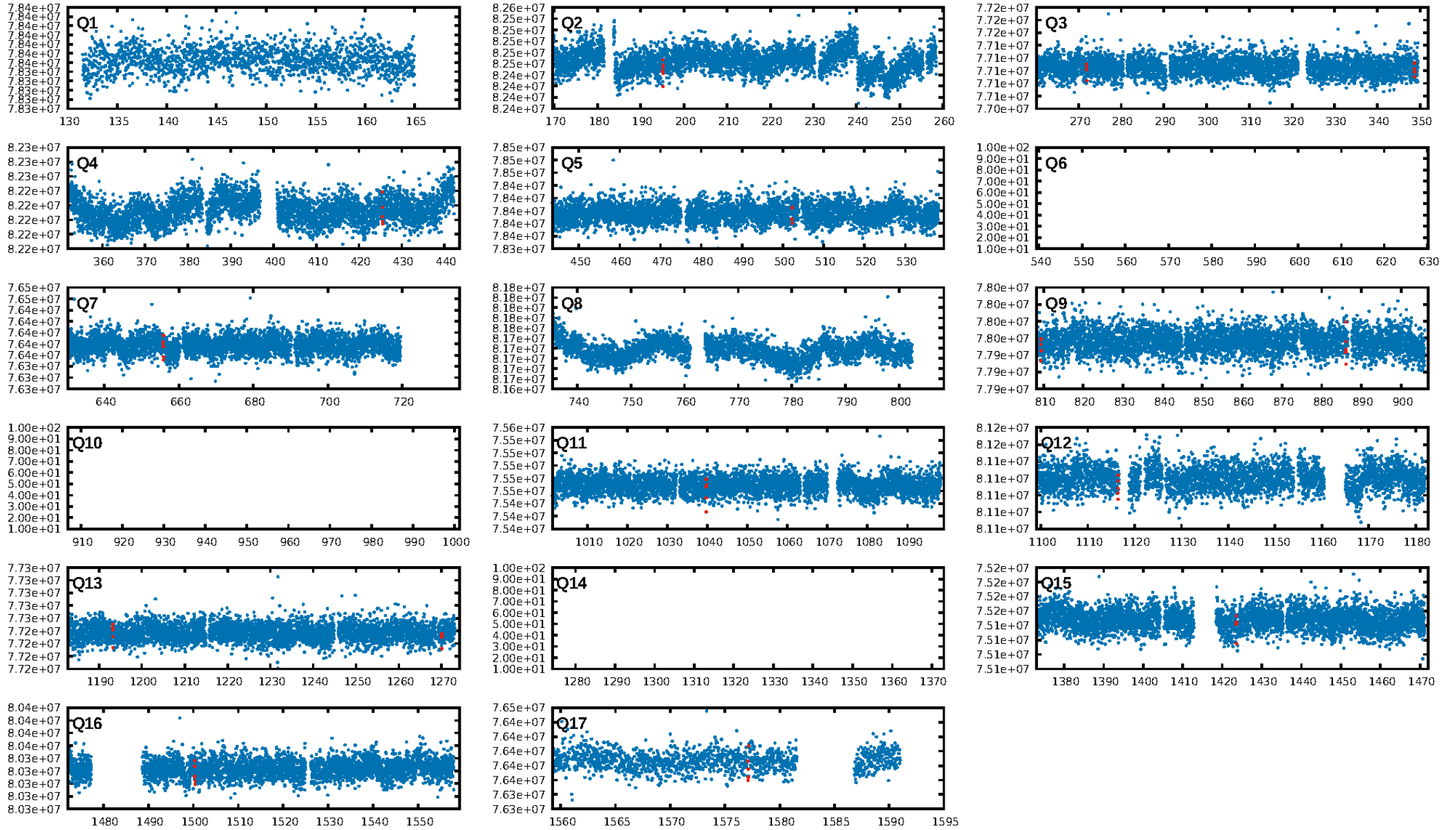
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [171.82σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 74.9%
ModelChiSquareGof-sig: 93.5%
Bootstrap-pfa: 1.62e-08
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -3.063
Centroid-sig: 10.3%
Centroid-so: 1.758 arcsec [1.20σ]
OotOffset-rm: 2.203 arcsec [1.36σ]
KicOffset-rm: 2.174 arcsec [1.35σ]
OotOffset-st: 1/2/2/2 [7]
KicOffset-st: 1/2/2/2 [7]
DiffImageQuality-fgm: 0.14 [1/7]
DiffImageOverlap-fno: 0.67 [8/12]

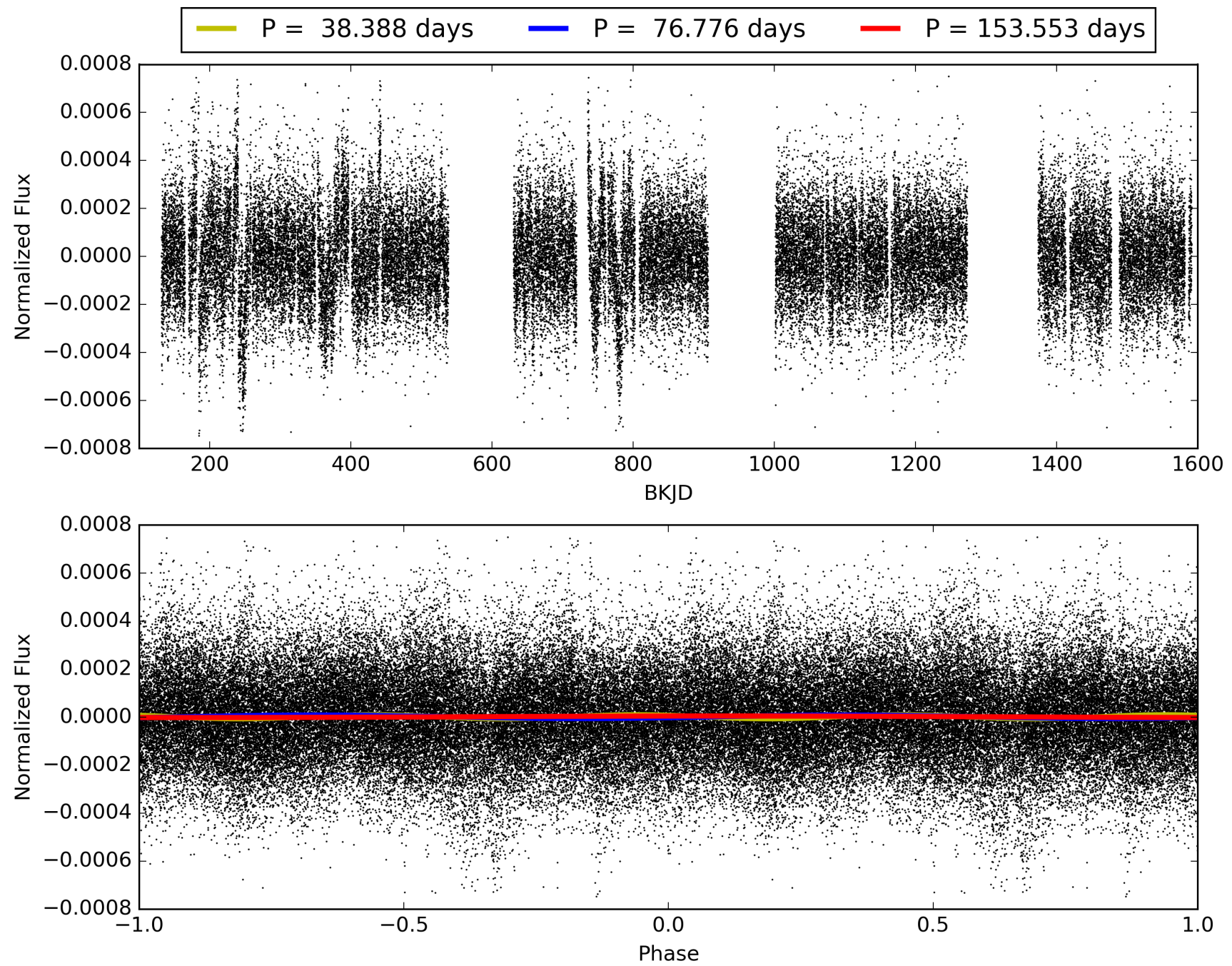
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:54:09 Z

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

TCE 004379925-03, PDC Light Curves

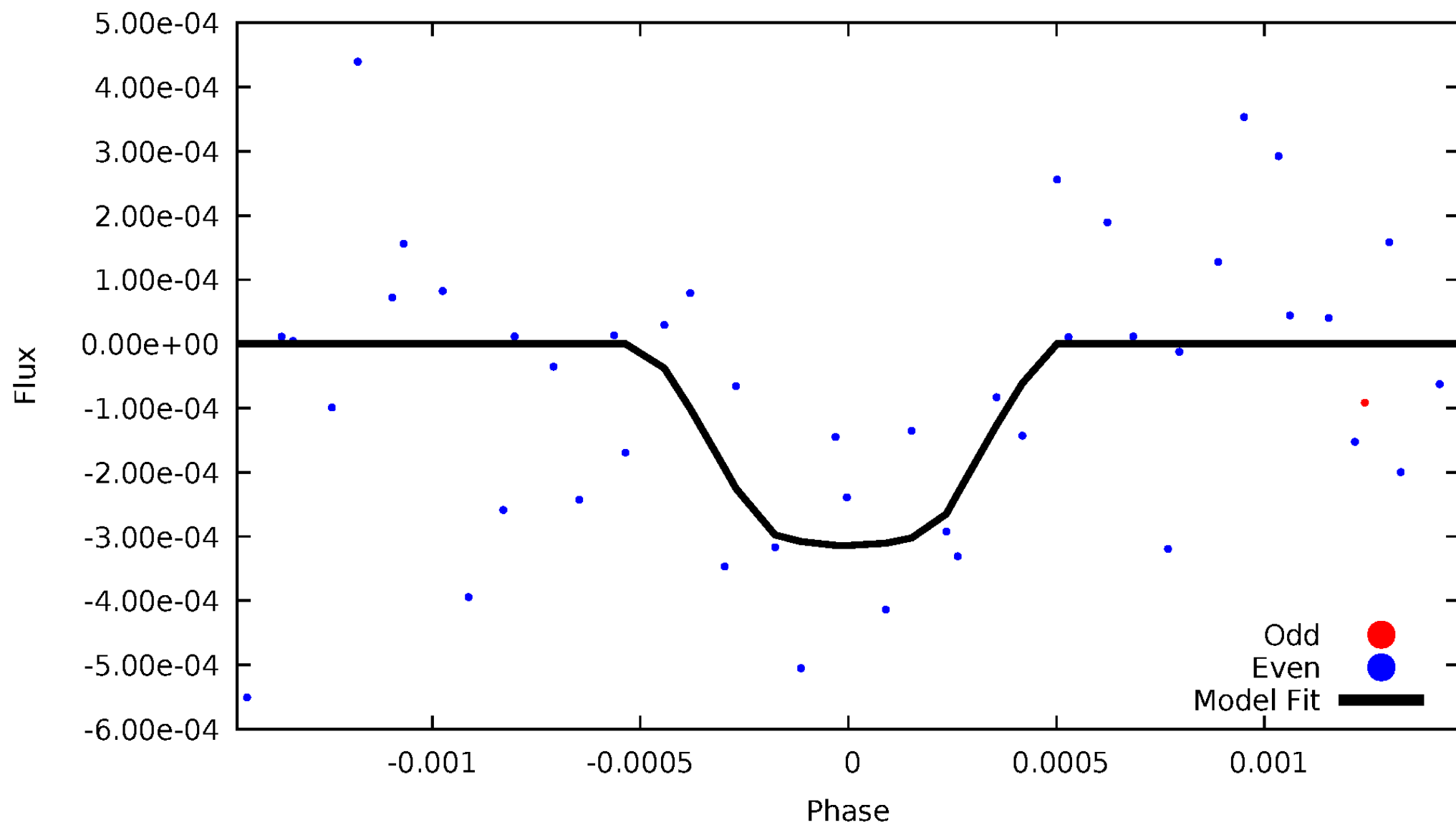


TCE 004379925-03



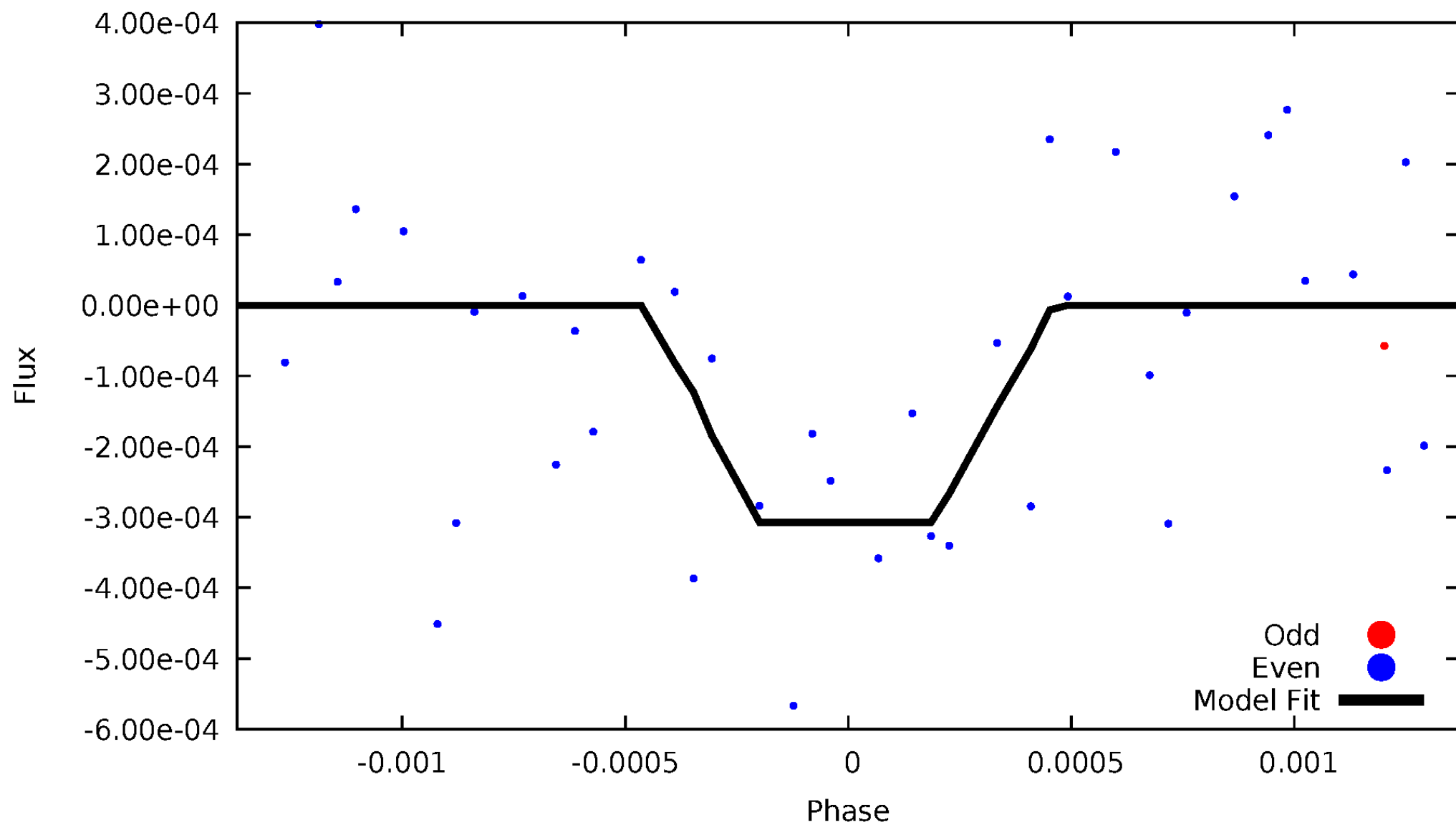
DV Odd/Even

TCE 004379925-03

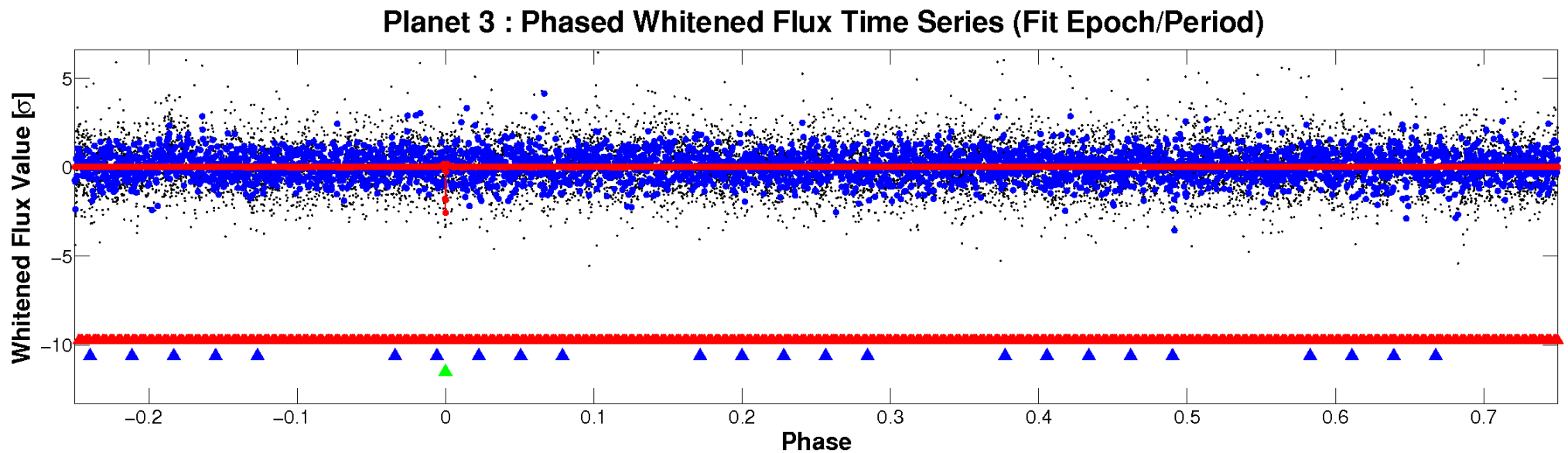
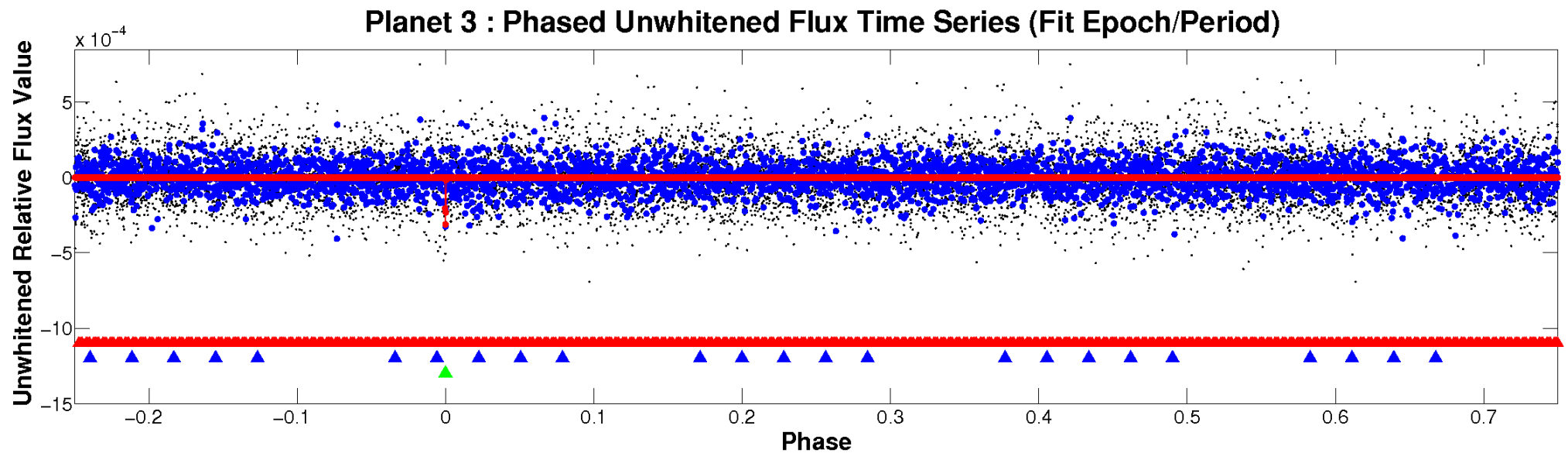


ALT Odd/Even

TCE 004379925-03

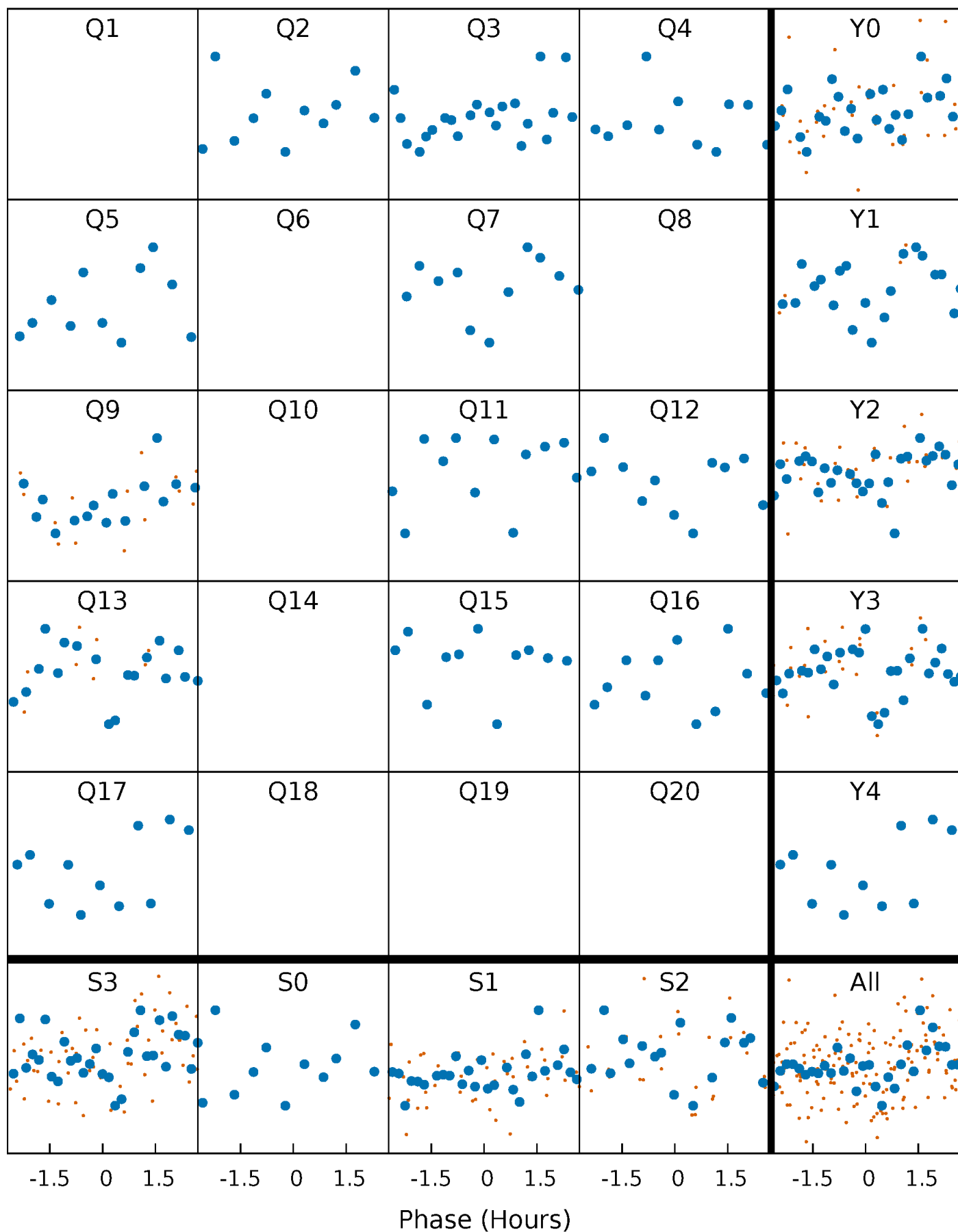


Non-Whitened Vs. Whitened Light Curve



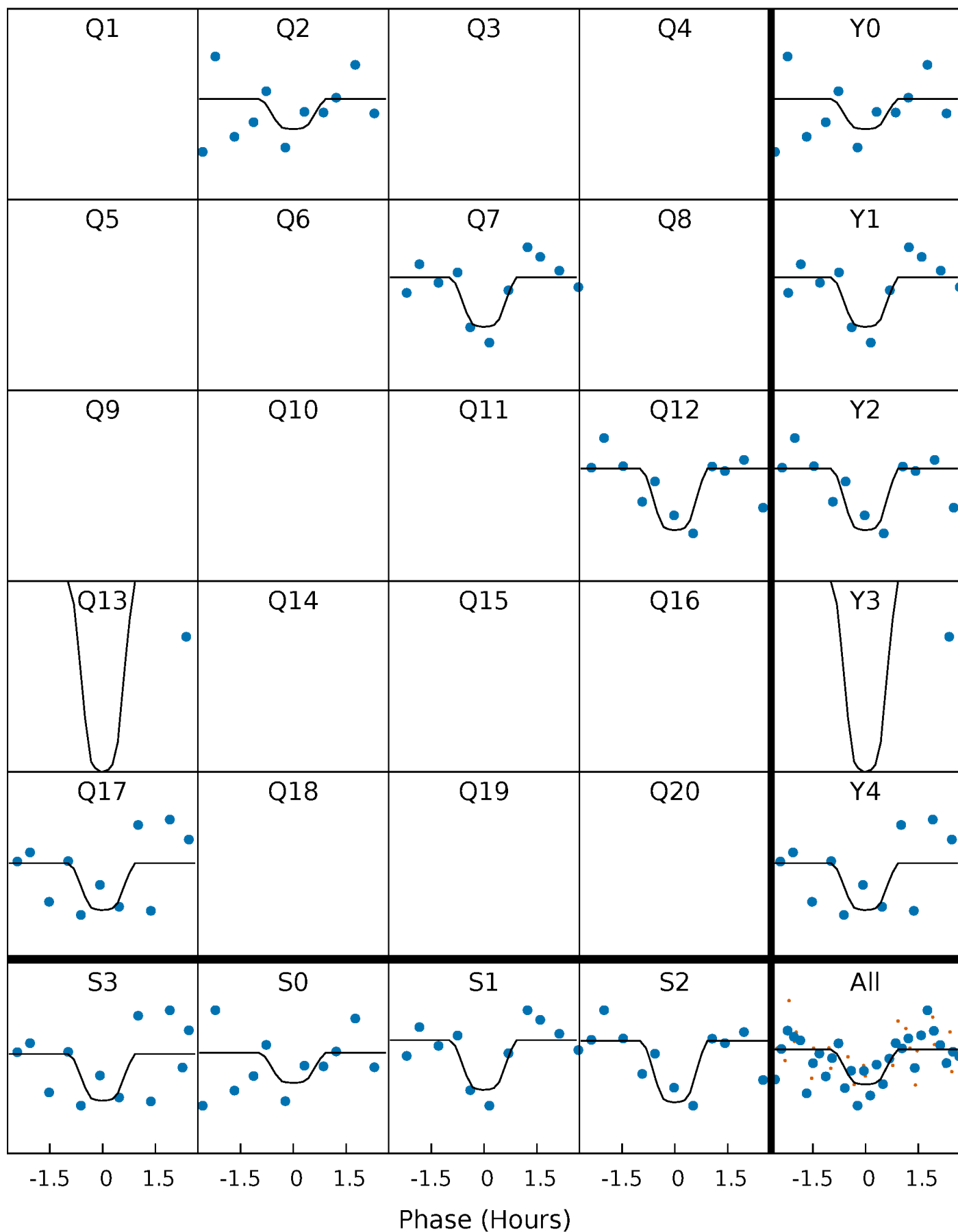
PDC Quarter-Phased Transit Curves

TCE 004379925-03 P= 76.776385 Days $T_0=195.153529$ (BKJD)



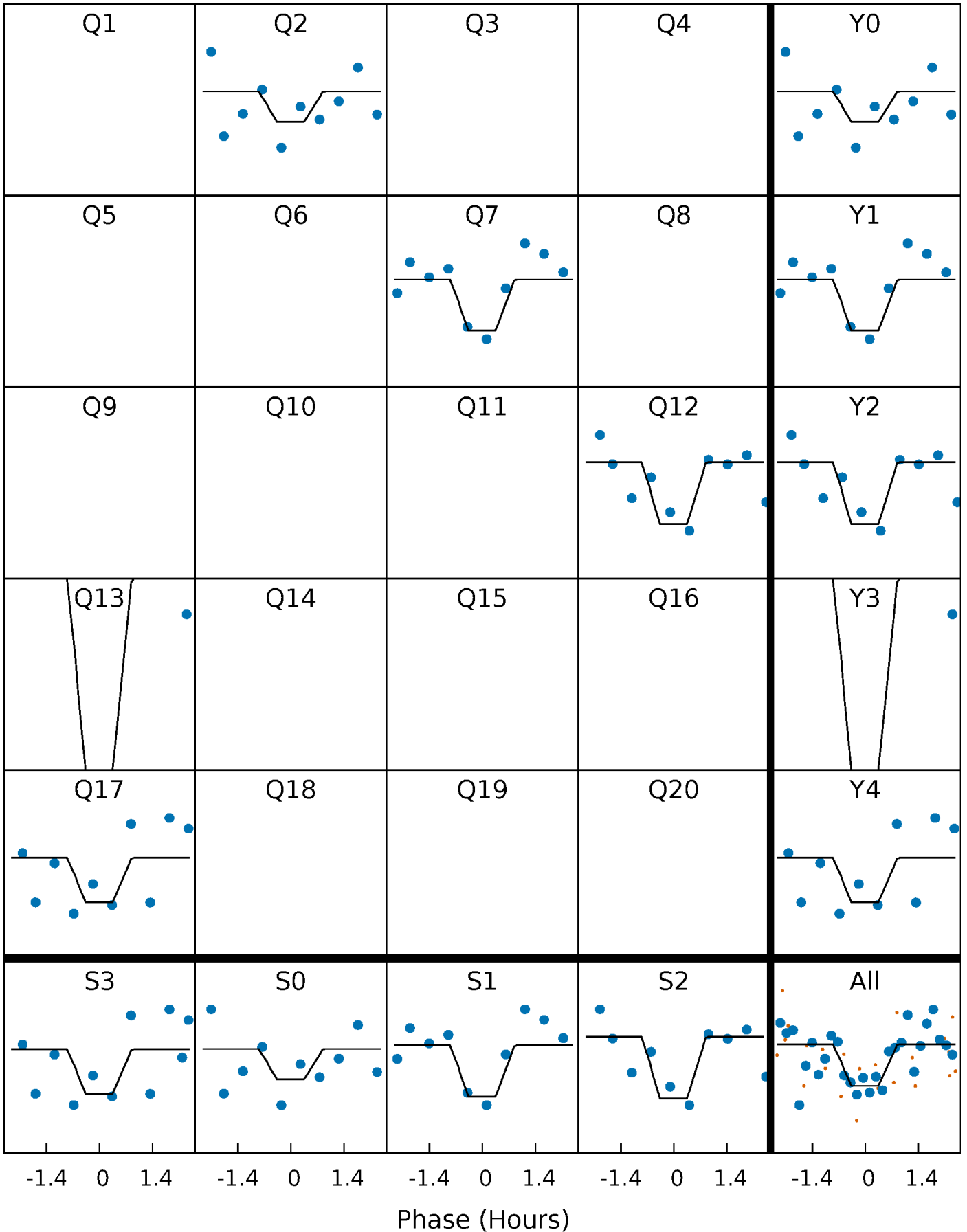
DV Quarter-Phased Transit Curves

TCE 004379925-03 P= 76.776385 Days $T_0=195.153529$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

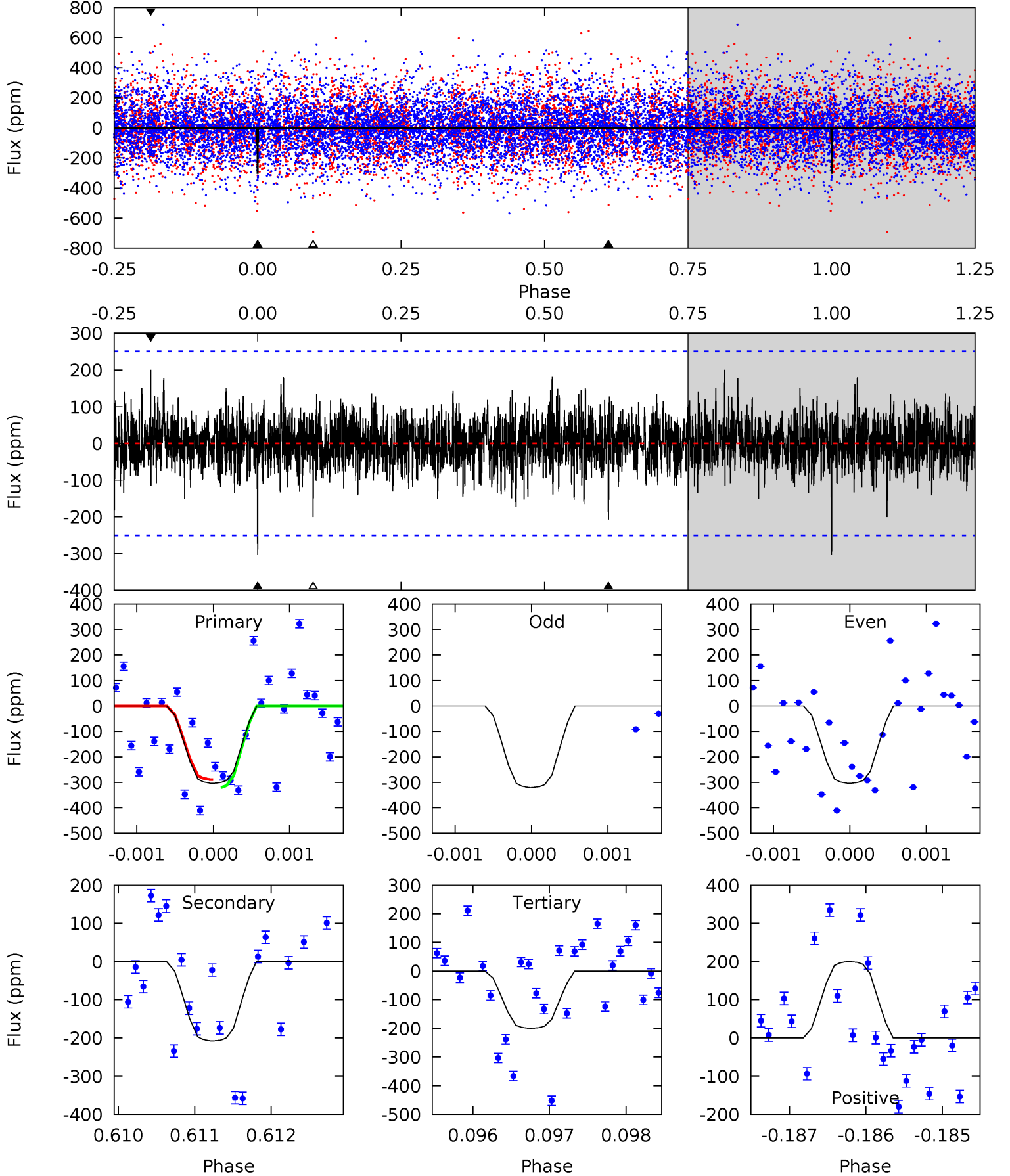
TCE 004379925-03 P= 76.776560 Days $T_0=195.154222$ (BKJD)



DV Model-Shift Uniqueness Test

004379925-03, P = 76.776385 Days, E = 118.377144 Days

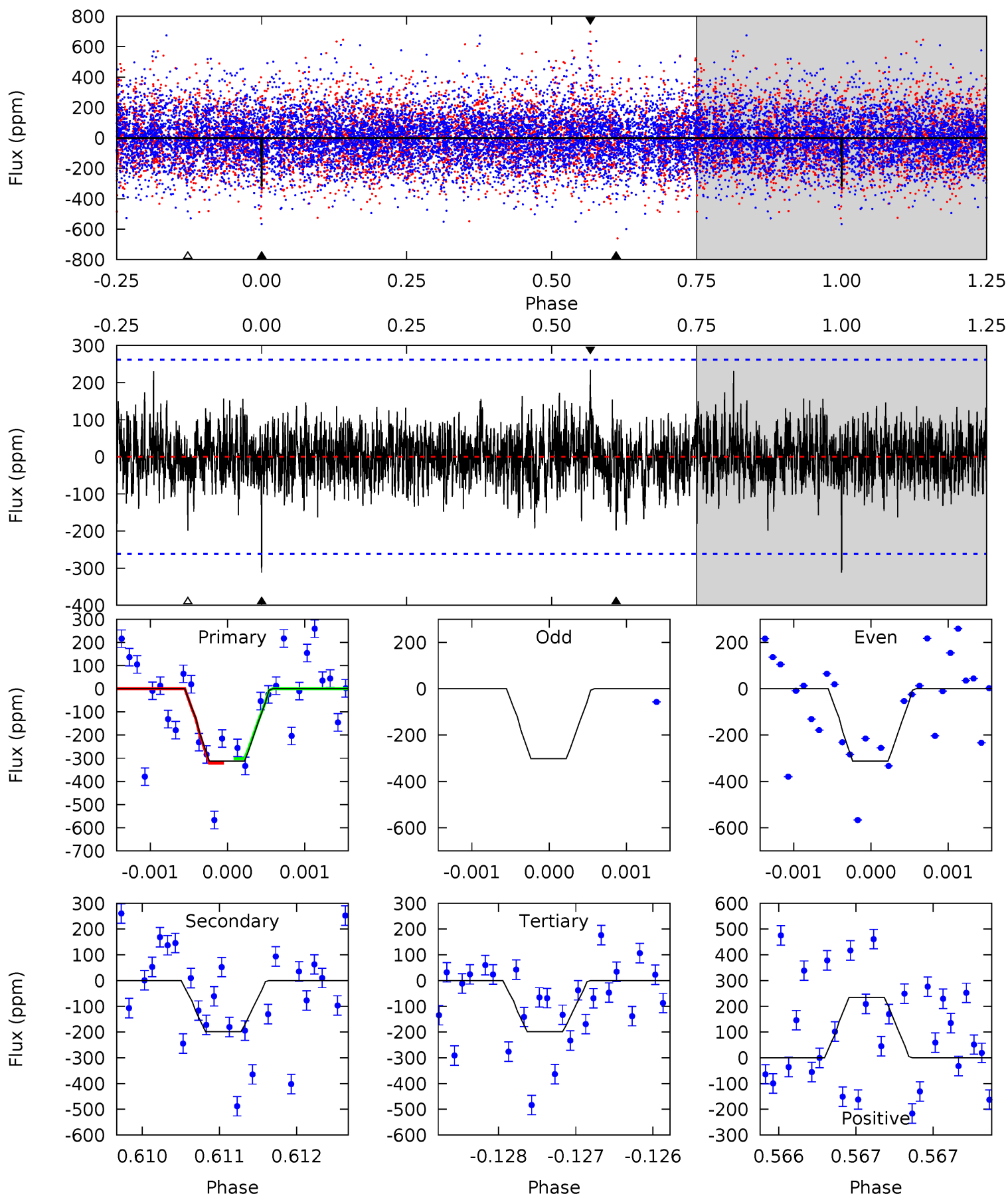
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.63	4.54	4.36	4.37	5.47	3.33	1.14	2.27	2.26	0.18	0.17	0.21	1.02	0.40	0.34



Alt Model-Shift Uniqueness Test

004379925-03, $P = 76.776560$ Days, $E = 118.377662$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.54	4.16	4.16	4.90	5.48	3.34	1.19	2.38	1.63	0.00	-0.74	0.13	1.03	0.43	0.21



Stellar Parameters For KIC 004379925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7605^{+211}_{-316}	$4.053^{+0.155}_{-0.155}$	$0.100^{+0.150}_{-0.350}$	$2.074^{+0.493}_{-0.444}$	$1.773^{+0.195}_{-0.292}$	$0.280^{+0.224}_{-0.124}$
	+3%/-4%	+4%/-4%	+150%/-350%	+24%/-21%	+11%/-16%	+80%/-44%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 004379925-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-208 ± 46	$5.51^{+4.68}_{-3.56}$	1029^{+68}_{-69}	5646^{+4690}_{-1302}	654^{+5004}_{-466}
Alt.	-199 ± 48	$5.49^{+5.13}_{-3.74}$	1029^{+72}_{-68}	5688^{+6401}_{-1355}	662^{+6974}_{-489}

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

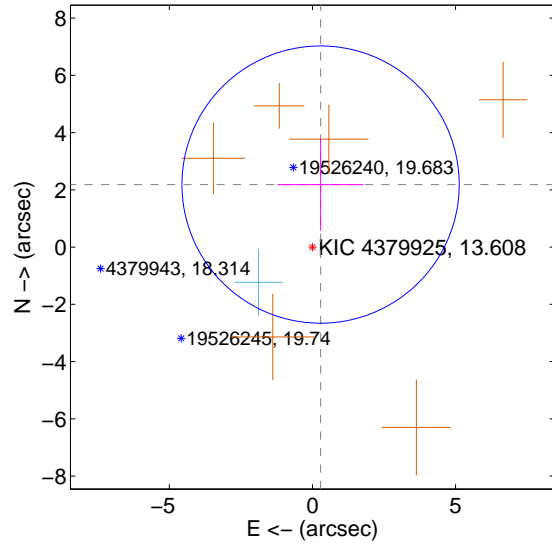
Supplemental centroid analysis for 004379925-03. Kepler magnitude: 13.61. Transit SNR 7.31

There are 1 quarters with good PRF difference image offsets

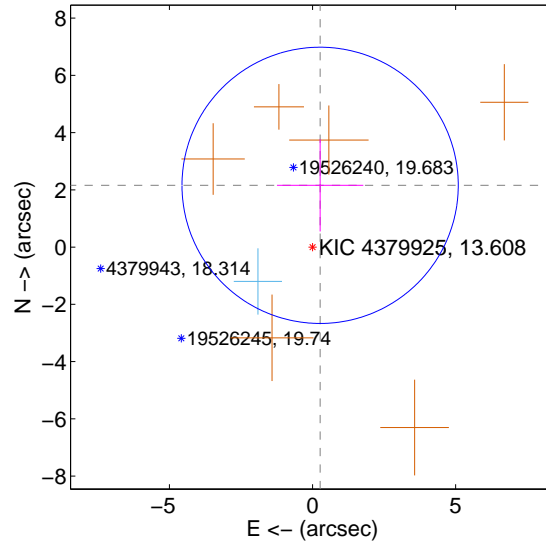
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.203 ± 1.614	1.36	-0.284 ± 1.506	2.184 ± 1.616
PRF-fit source offset from KIC position	2.174 ± 1.608	1.35	-0.265 ± 1.508	2.158 ± 1.610
photometric centroid source offset	1.76 ± 1.46	1.20	0.39 ± 1.47	1.71 ± 1.46

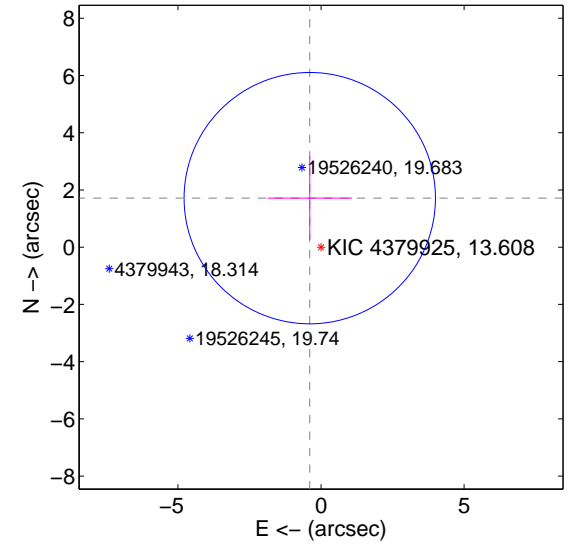
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

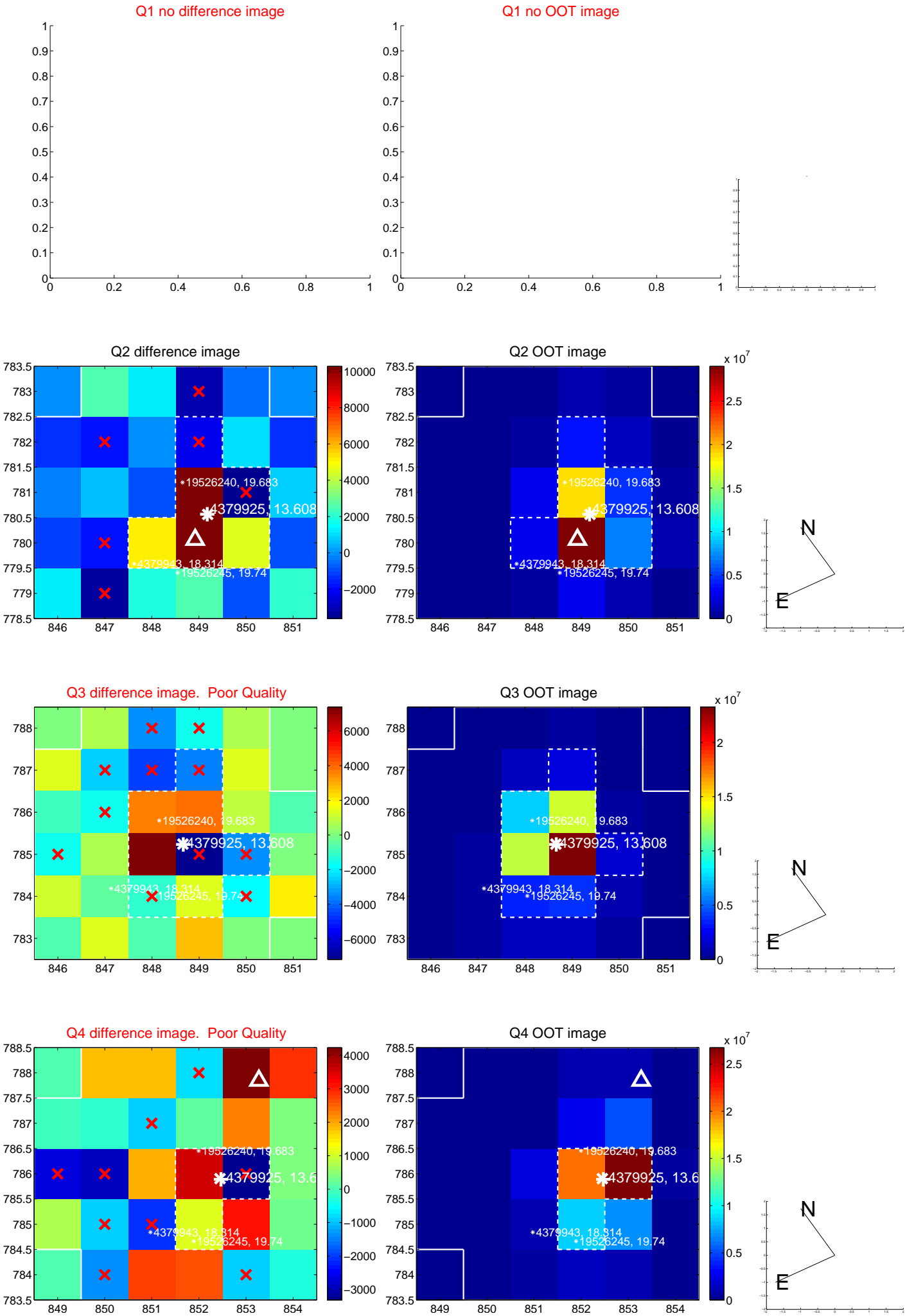


offset from photometric centroids

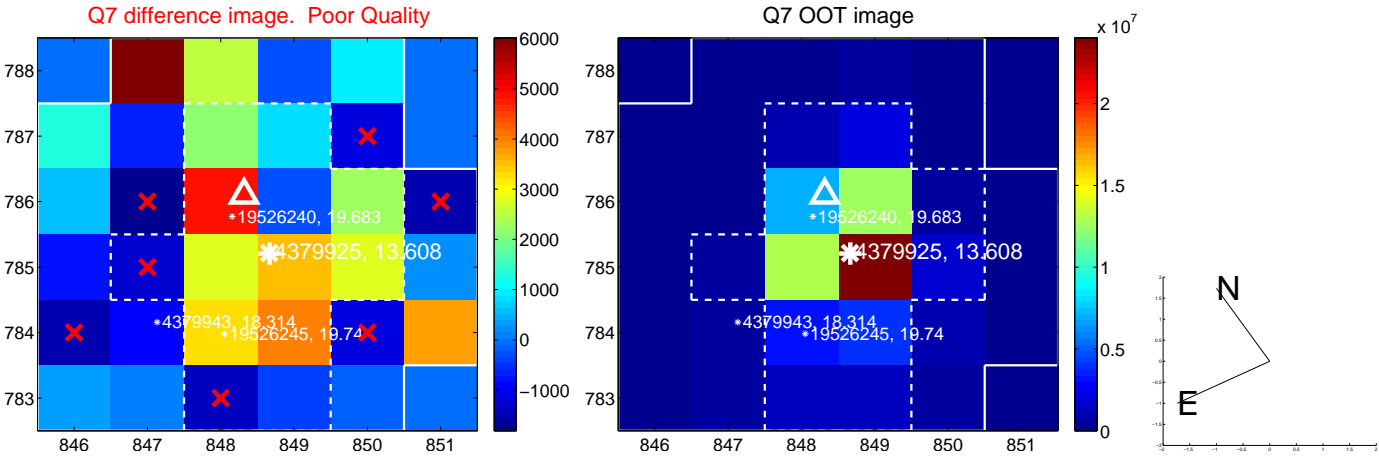
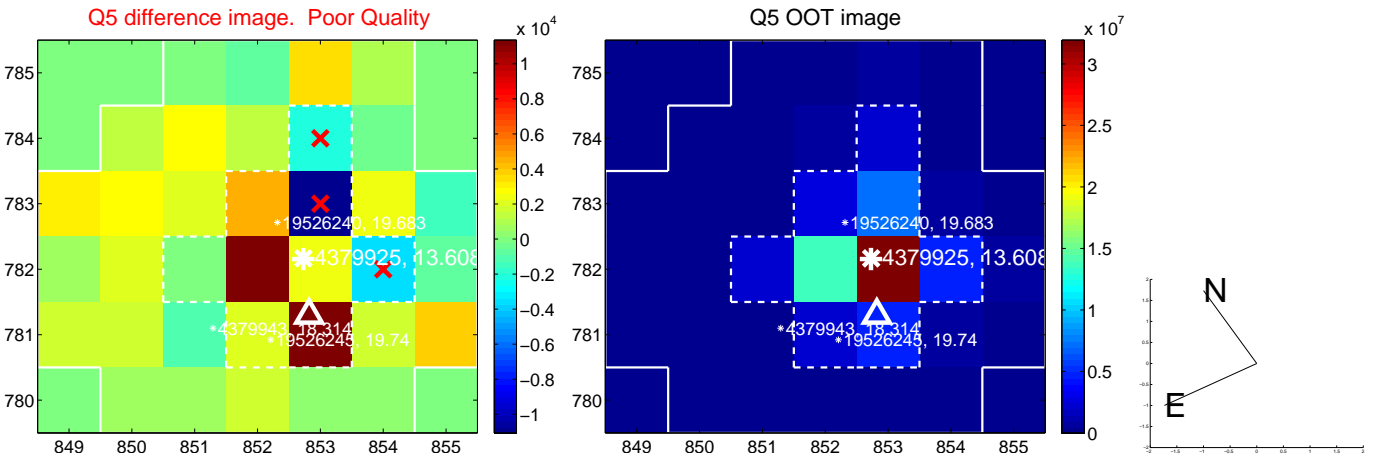


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

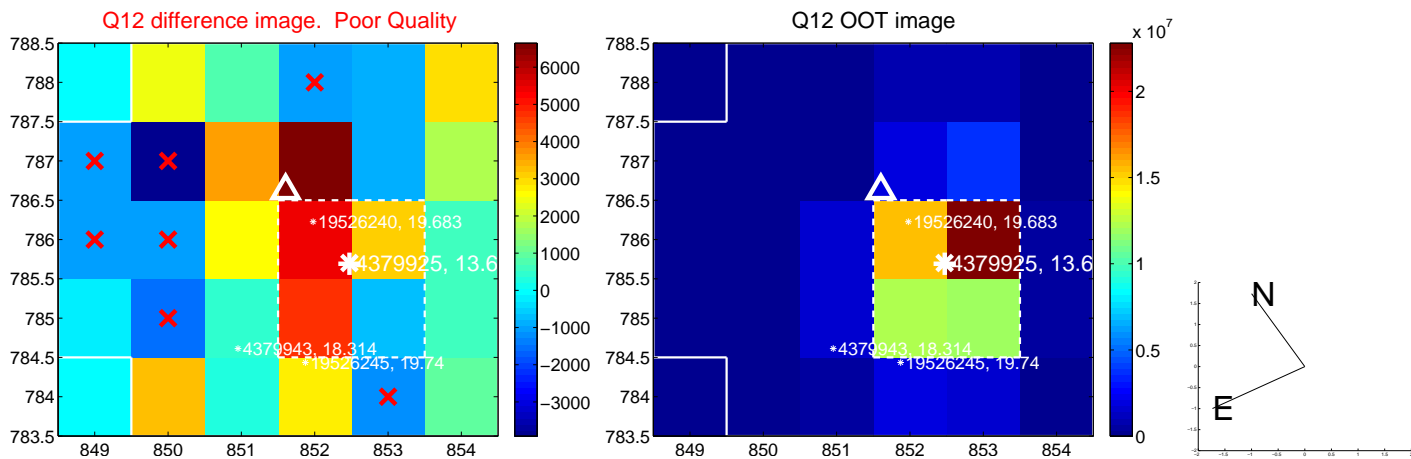
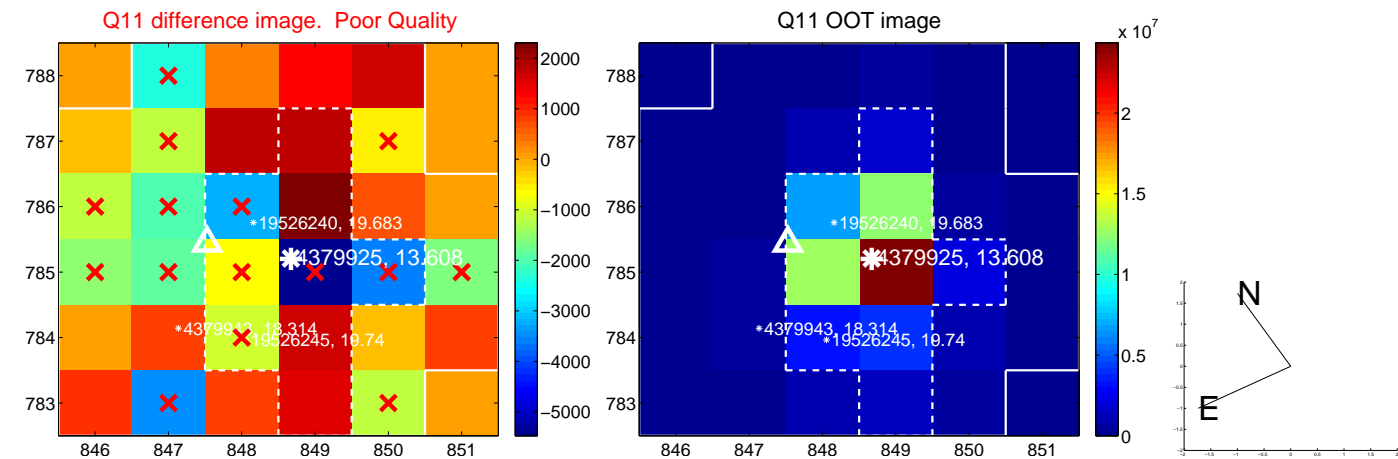
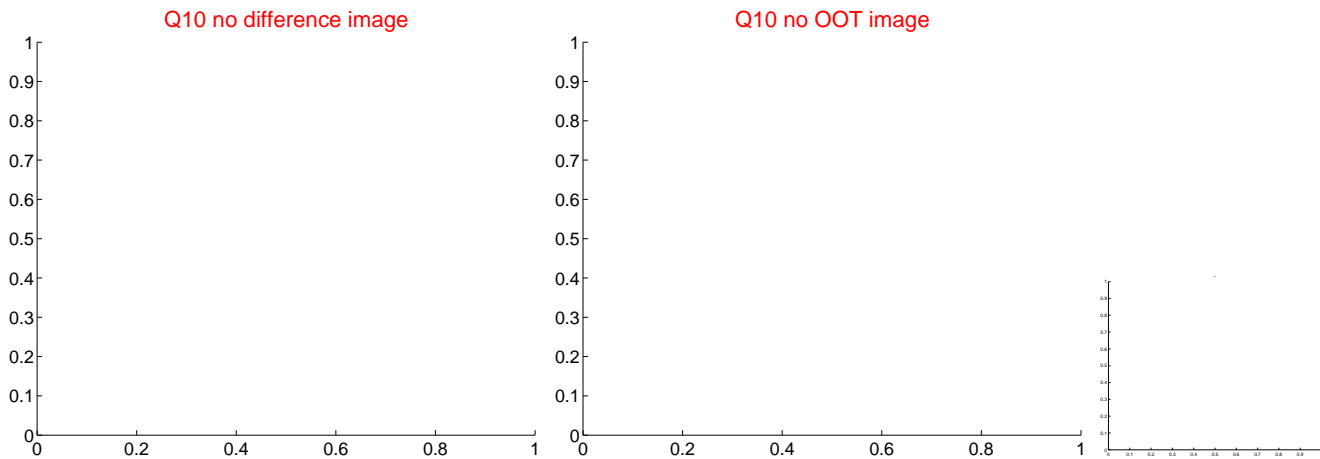
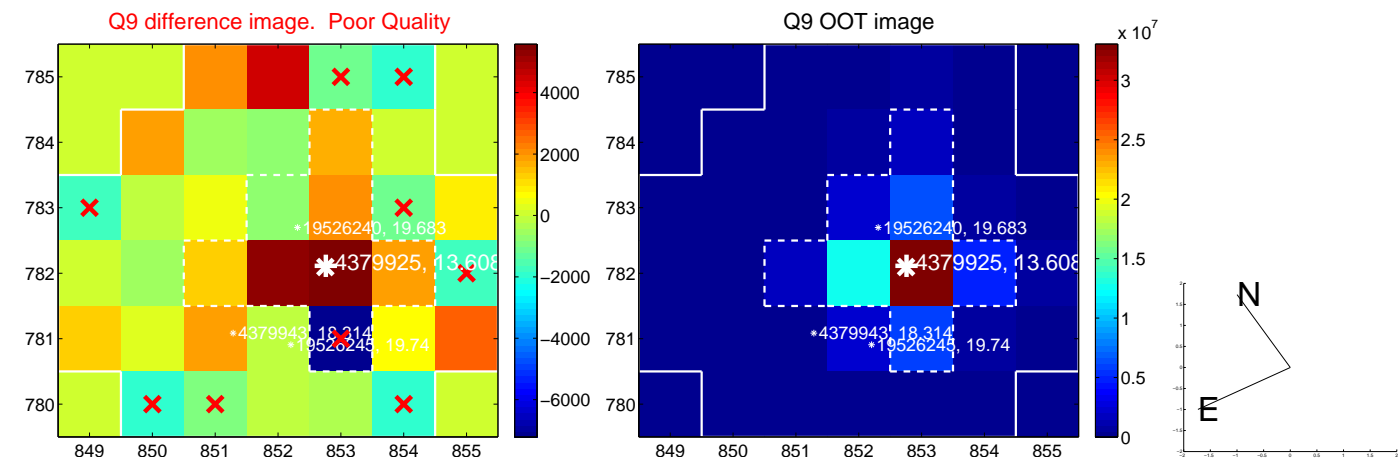
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



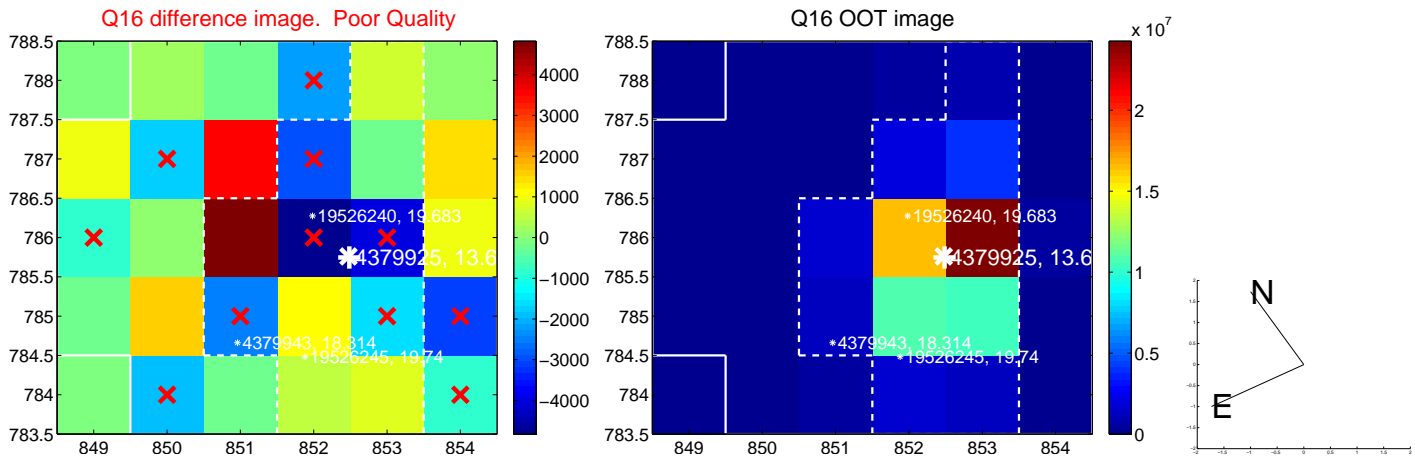
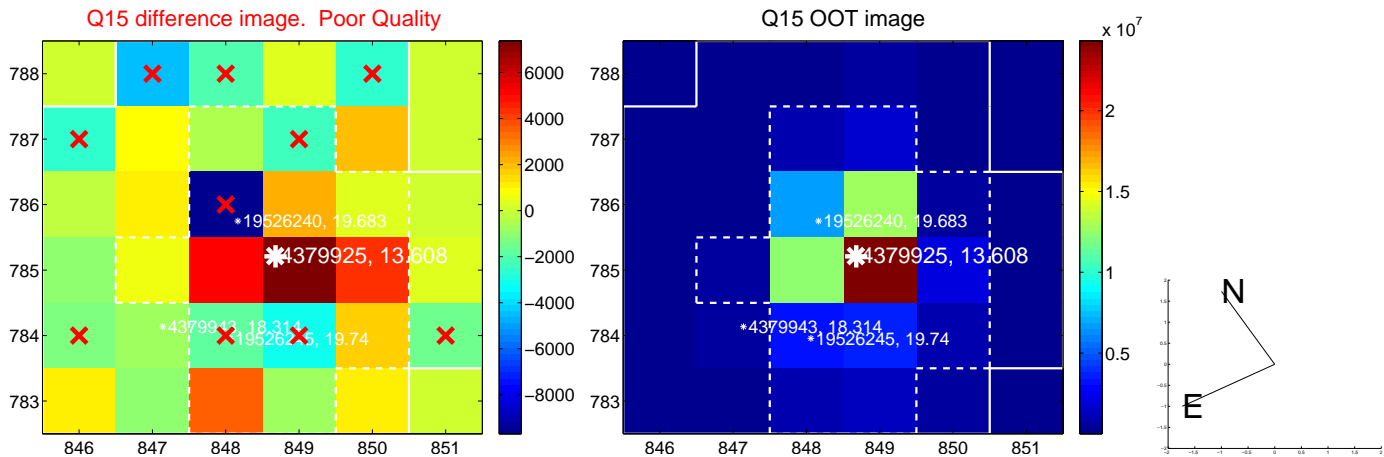
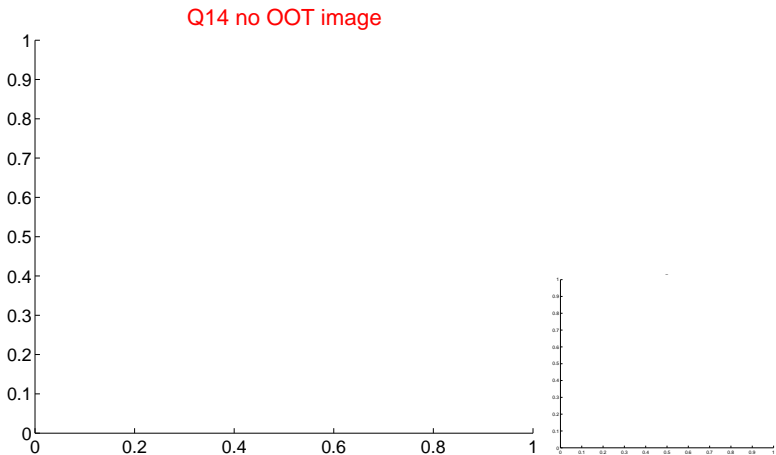
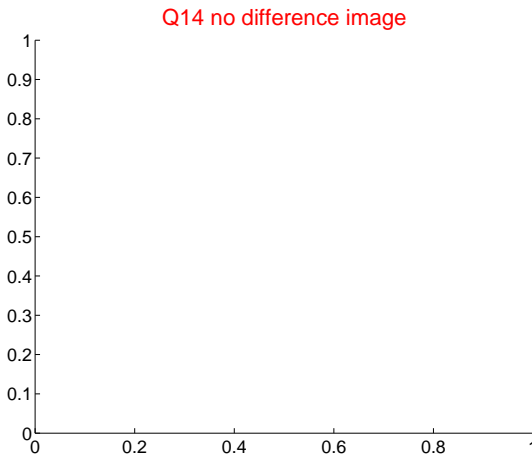
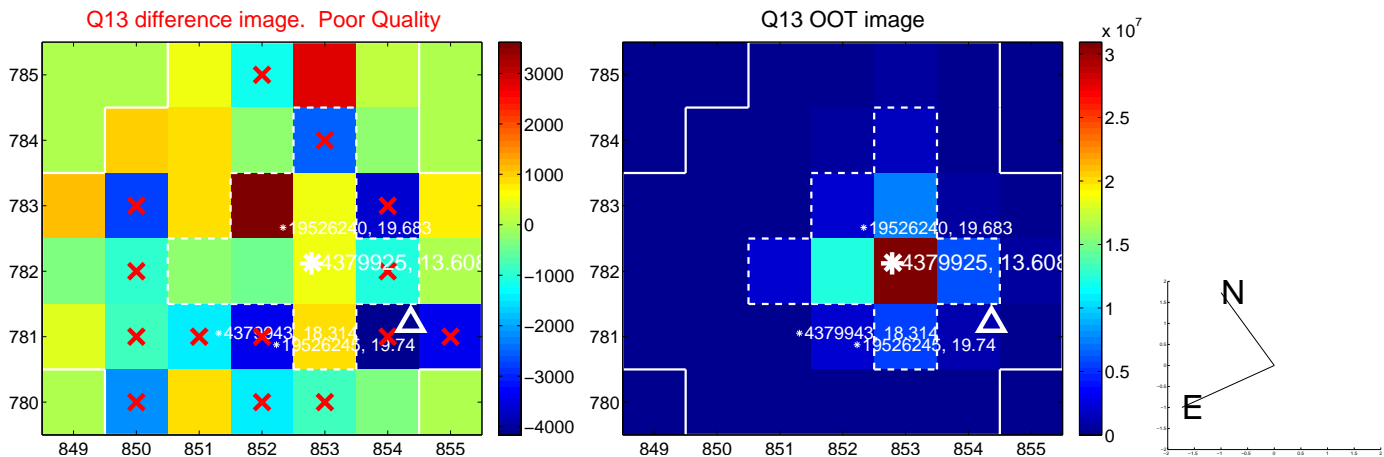
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



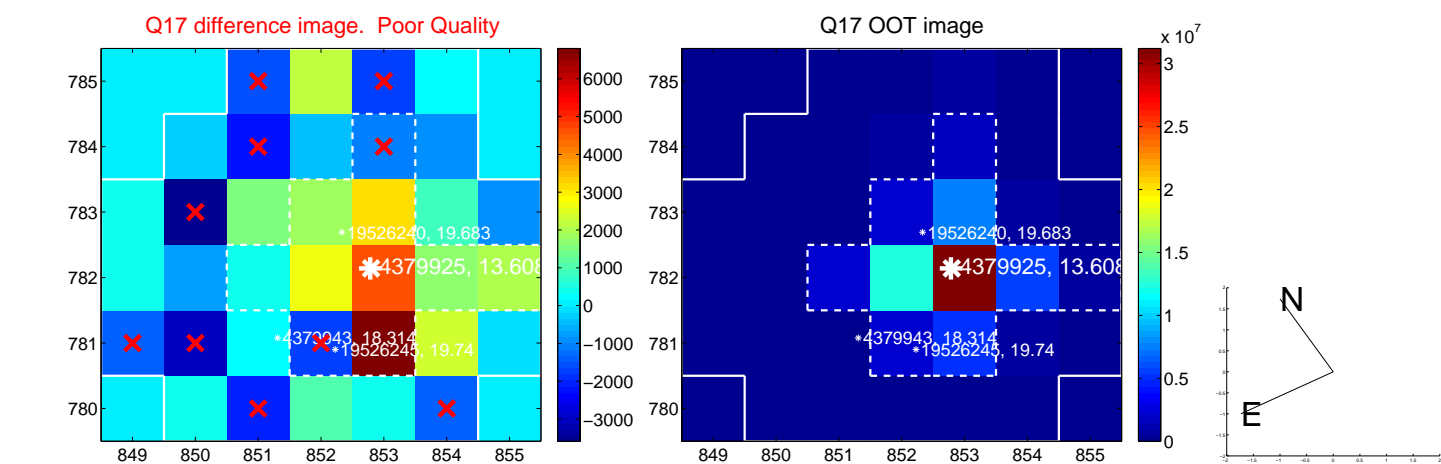
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



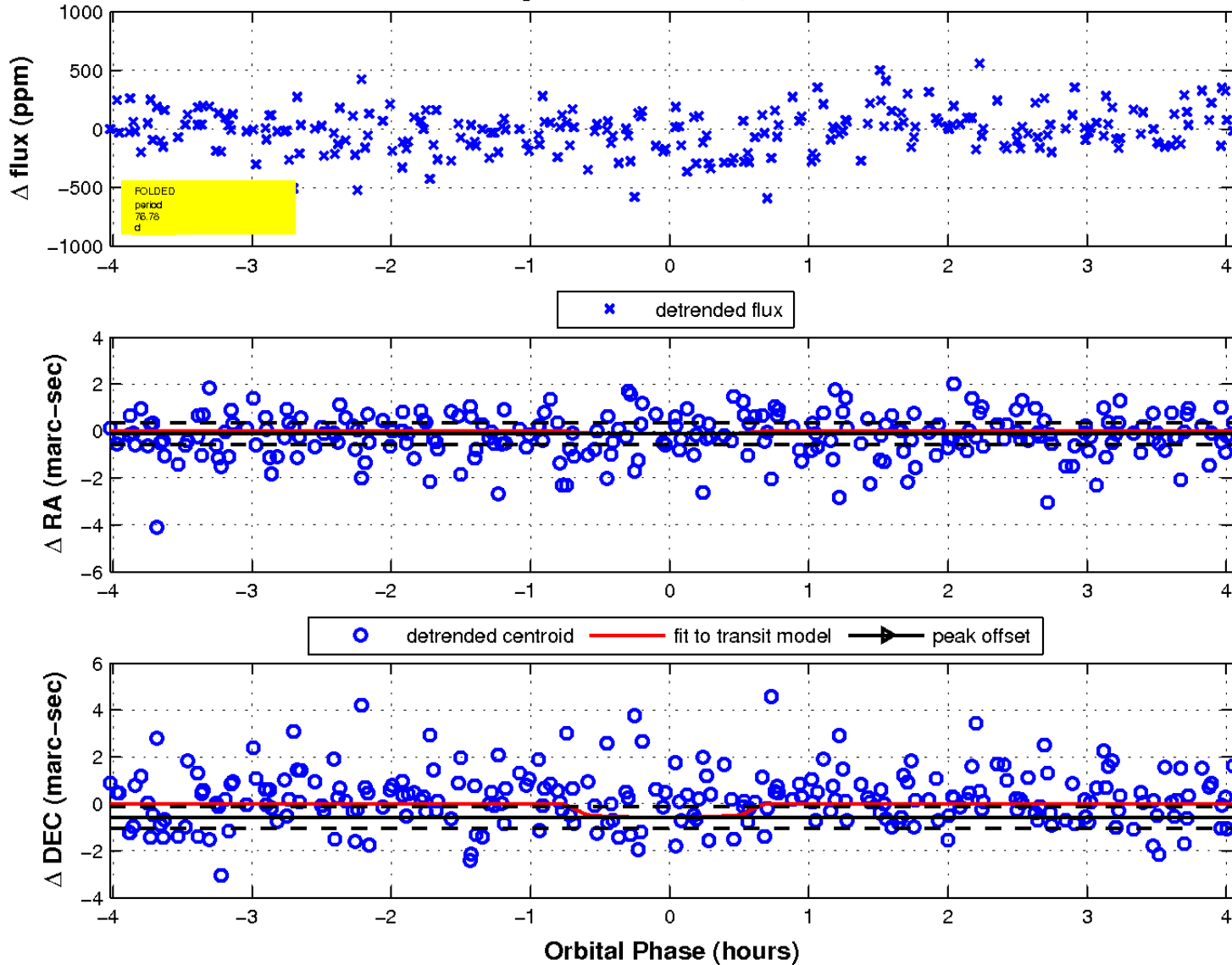
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

