

KIC 008527297

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})
008527297-01	OBS	No	0.586662	132.006092	63.3	0.948	10.7	13.8	1.02	6137	0.96	6607.45
008527297-02	OBS	No	0.586664	131.614741	58.9	1.019	10.3	13.7	1.02	6137	0.93	6607.42
008527297-03	OBS	8157.01	0.587300	132.350232	38.3	0.824	9.2	4.8	1.02	6137	0.64	6597.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008527297-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
008527297-02	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_RESOLVED_OFFSET
008527297-03	OBS	PC	0.64	0	0	0	0	NO_COMMENT

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

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

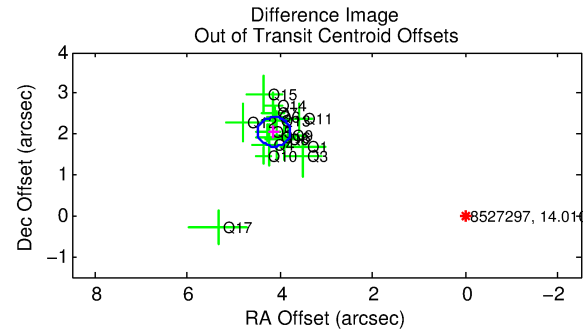
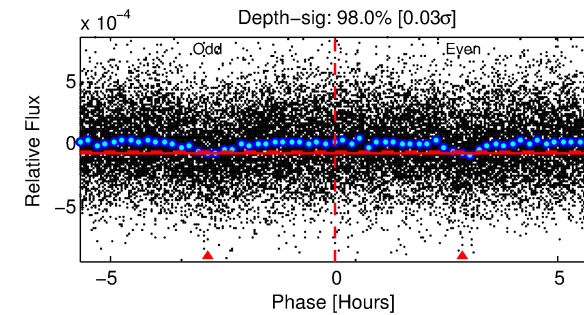
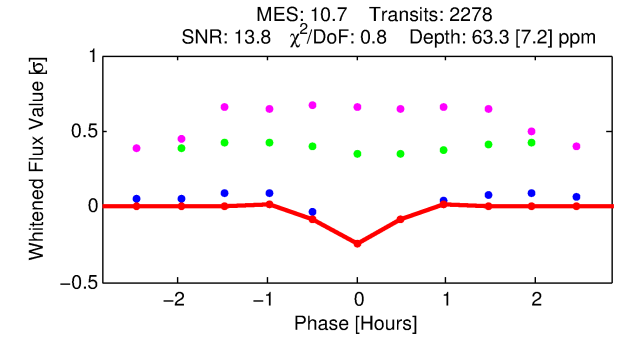
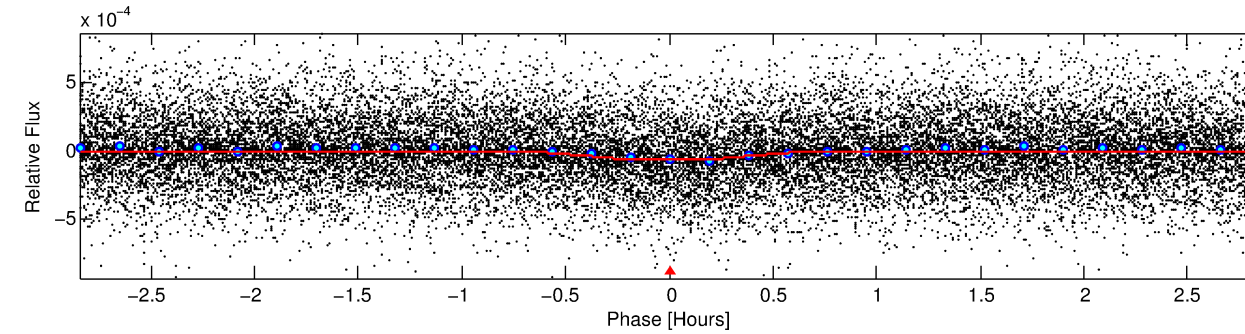
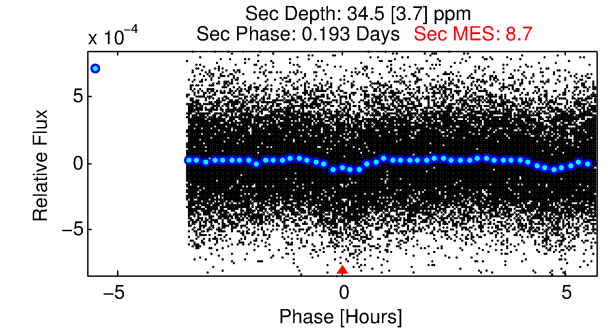
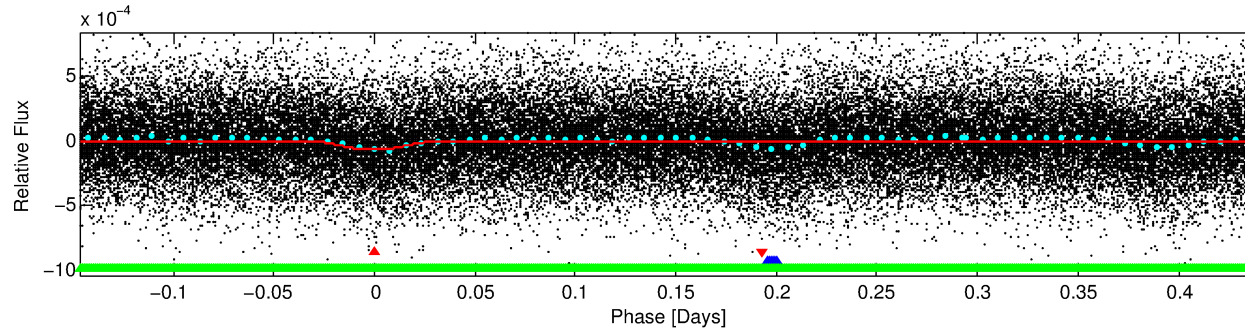
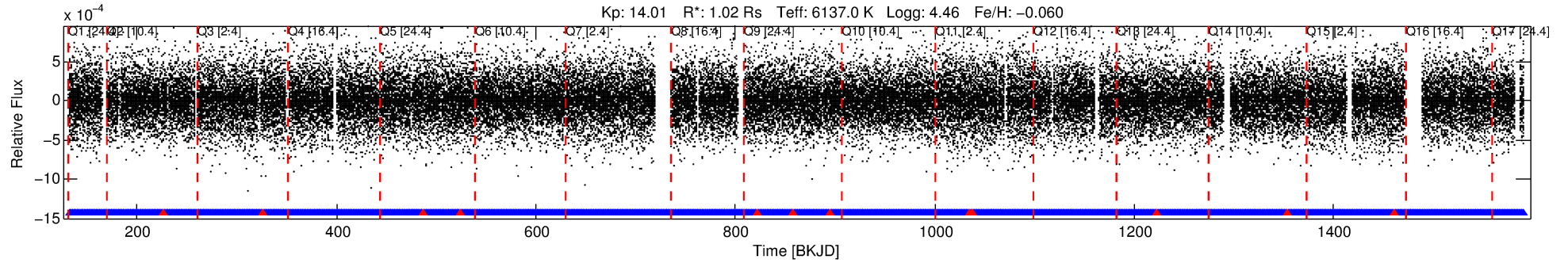
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008527297-01

No Significant Match Found

DV One-Page Summary

KIC: 8527297 Candidate: 1 of 3 Period: 0.587 d



DV Fit Results:

Period = 0.58666 [0.00001] d
Epoch = 132.0061 [0.0012] BKJD
Rp/R* = 0.0087 [0.0022]
a/R* = 2.33 [2.43]
b = 0.90 [0.27]
Seff = 6607.45 [2861.56]
Teq = 2299 [249] K
Rp = 0.96 [0.40] Re
a = 0.0141 [0.0040] AU
Ag = 4.06 [2.66] [1.15σ]
Teffp = 5047 [666] K [3.87σ]

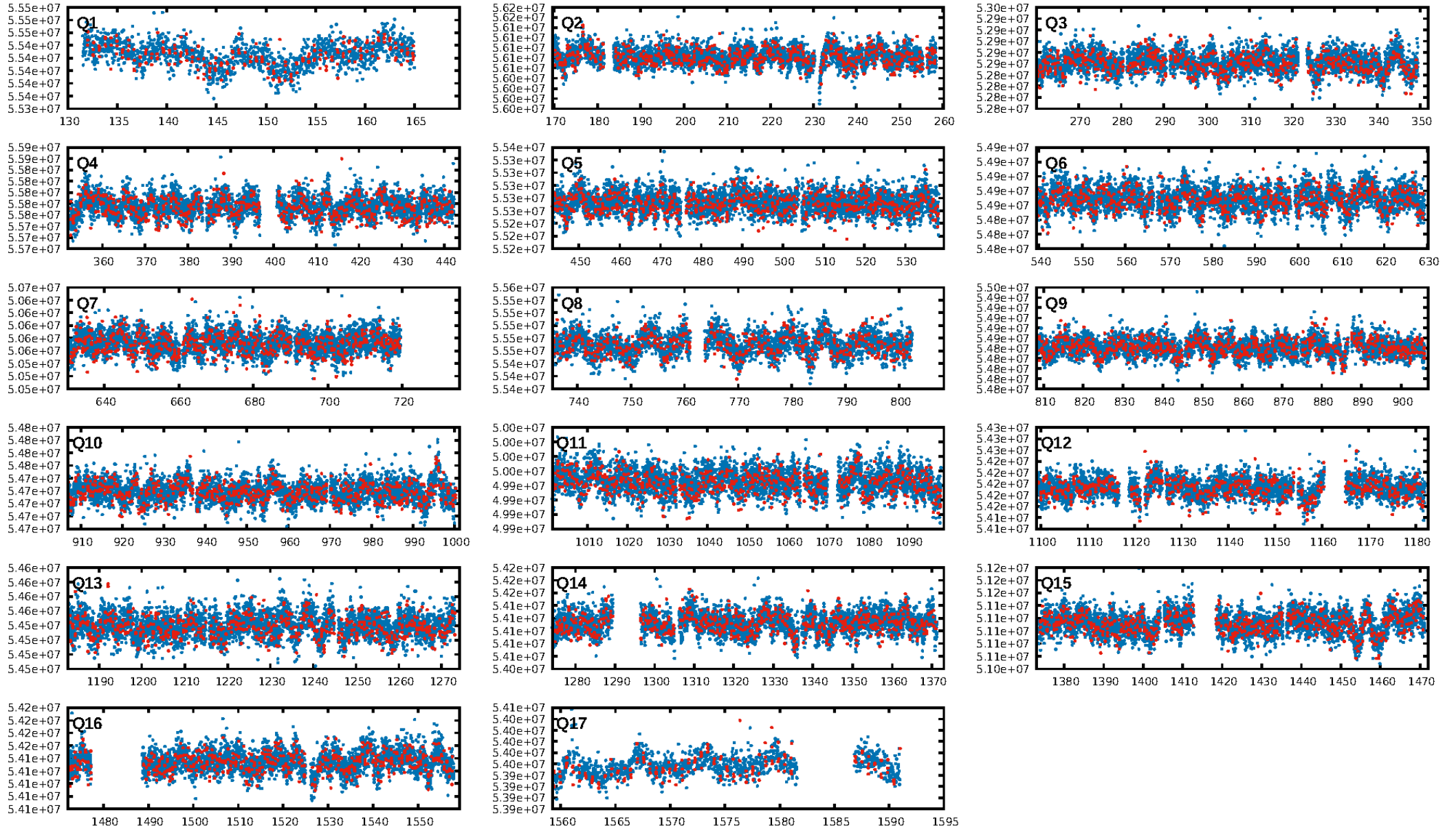
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 6.32e-22
RollingBand-fgt: 0.99 [2163/2175]
GhostDiagnostic-chr: 0.8853
Centroid-sig: 0.0%
Centroid-so: 7.726 arcsec [7.49σ]
OotOffset-rm: 4.622 arcsec [38.86σ]
KicOffset-rm: 4.788 arcsec [36.50σ]
OotOffset-st: 3/4/4/5 [16]
KicOffset-st: 3/4/4/5 [16]
DiffImageQuality-fgm: 0.94 [15/16]
DiffImageOverlap-fno: 0.00 [0/17]

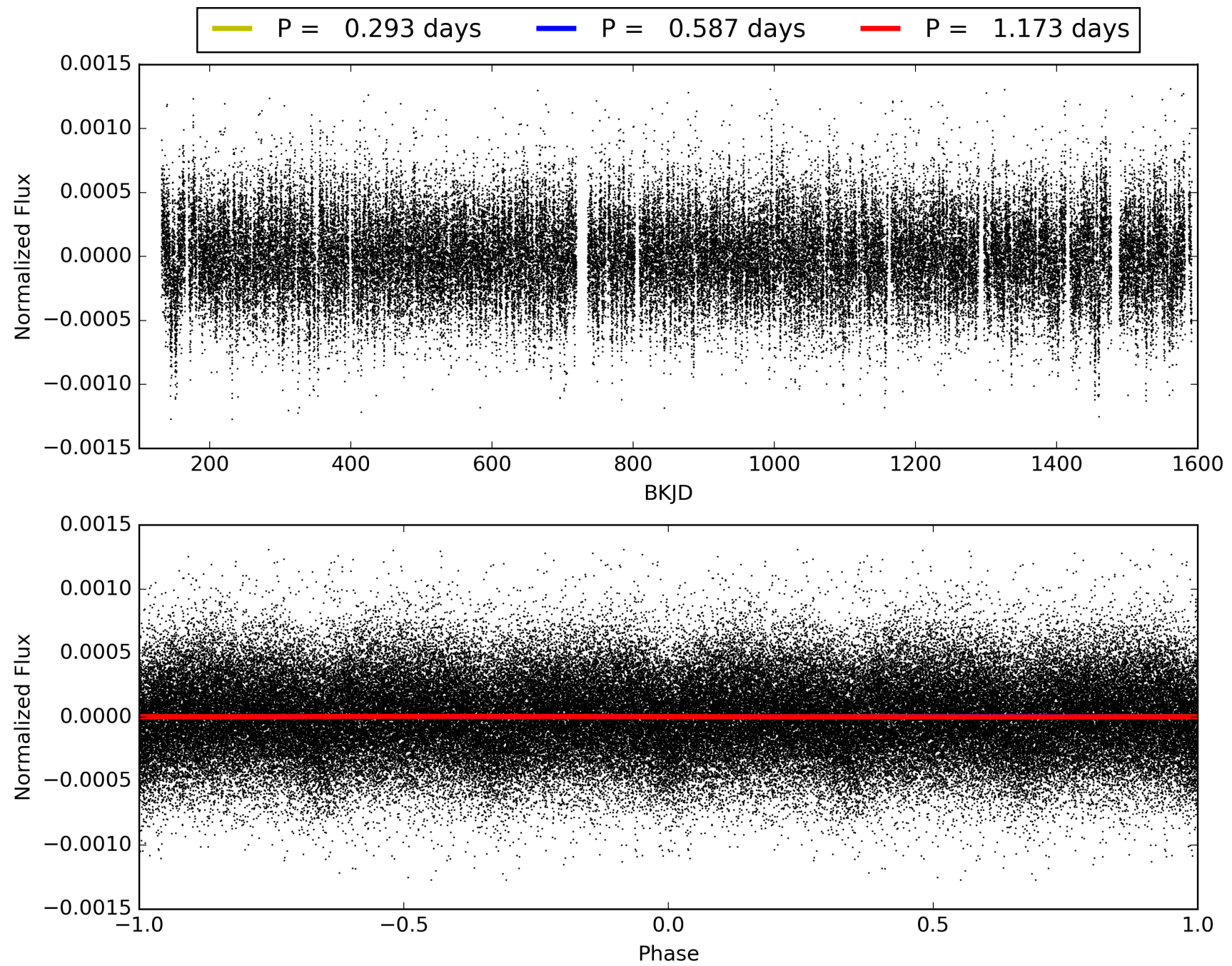
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 22:55:04 Z

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

TCE 008527297-01, PDC Light Curves

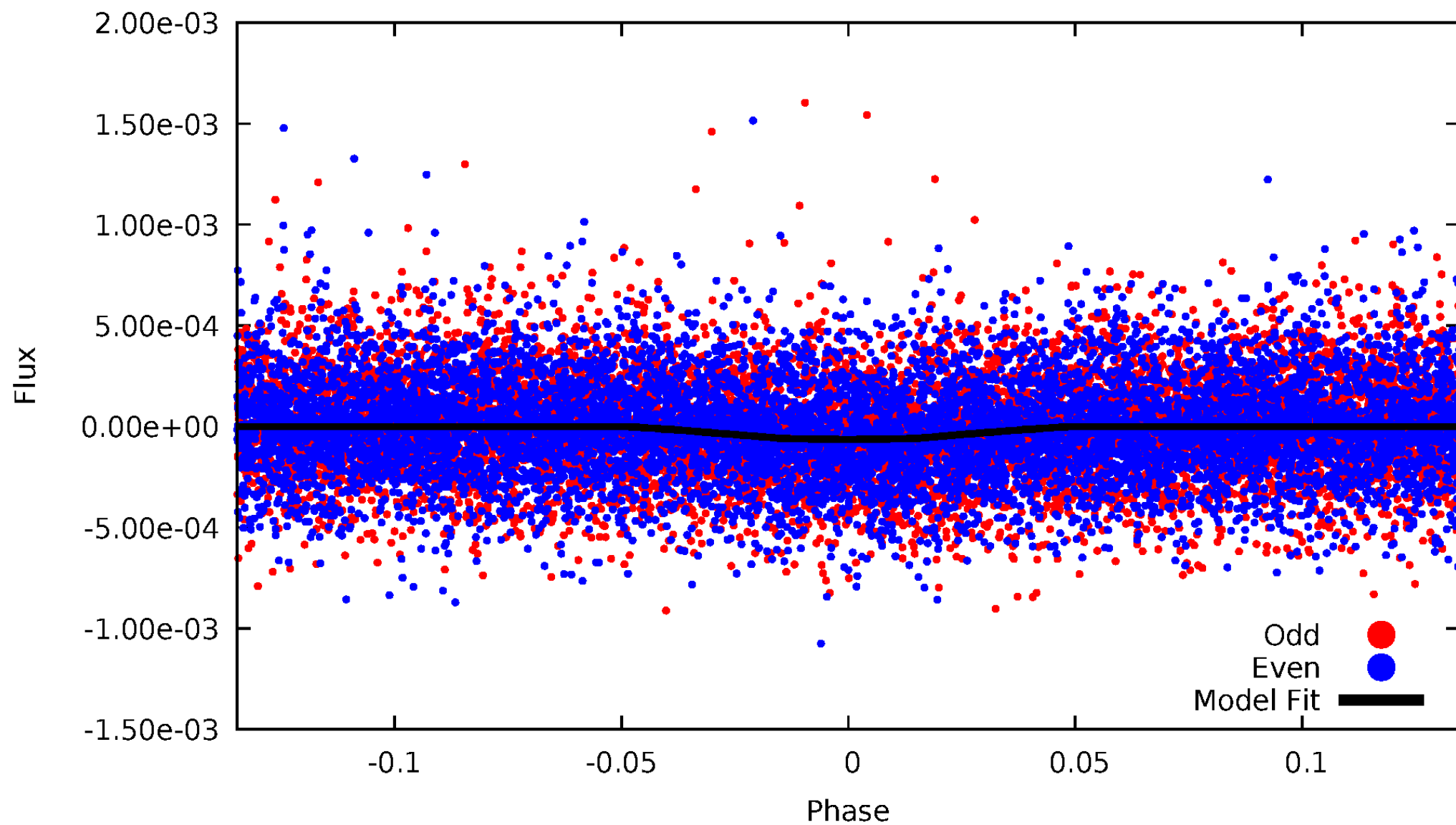


TCE 008527297-01



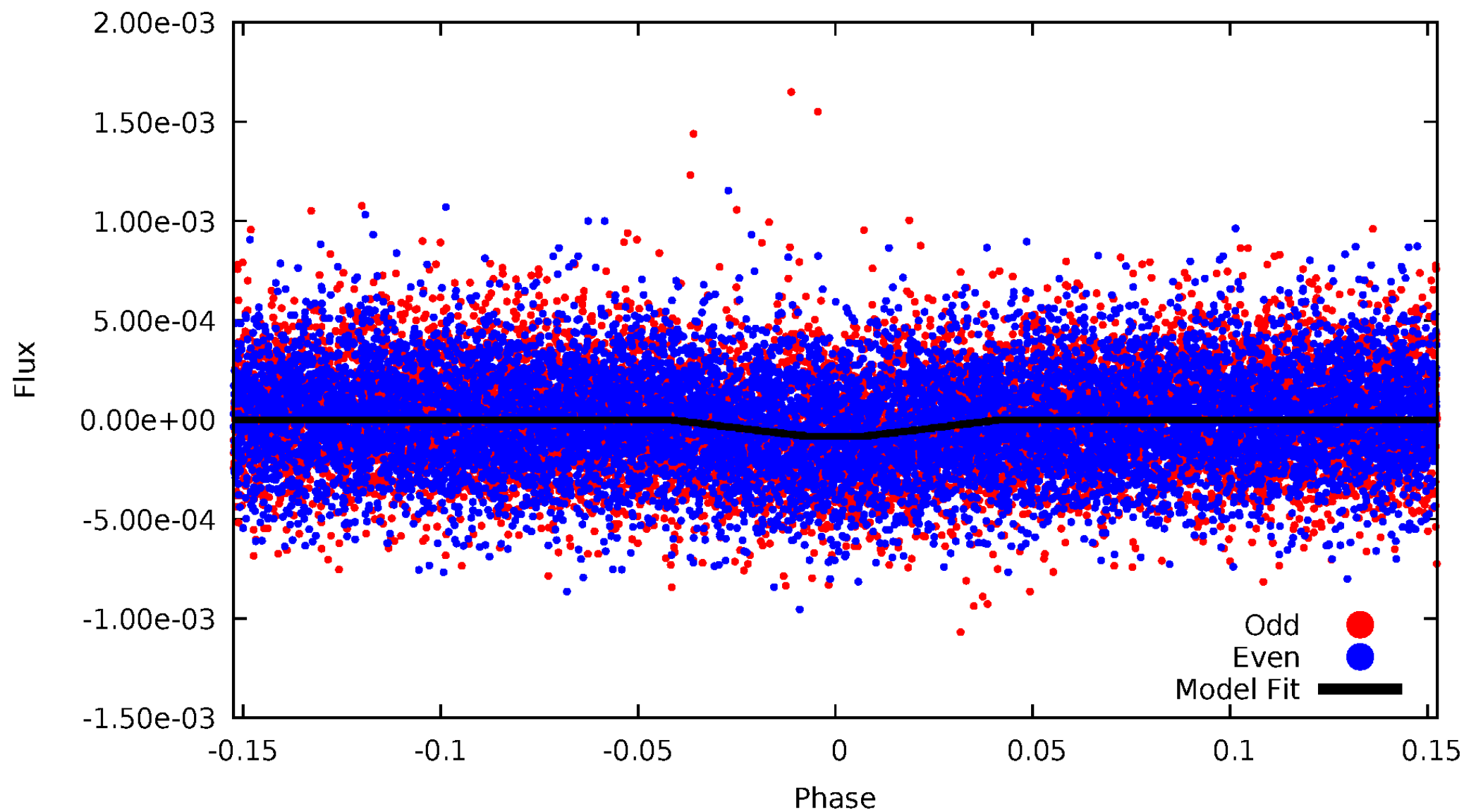
DV Odd/Even

TCE 008527297-01



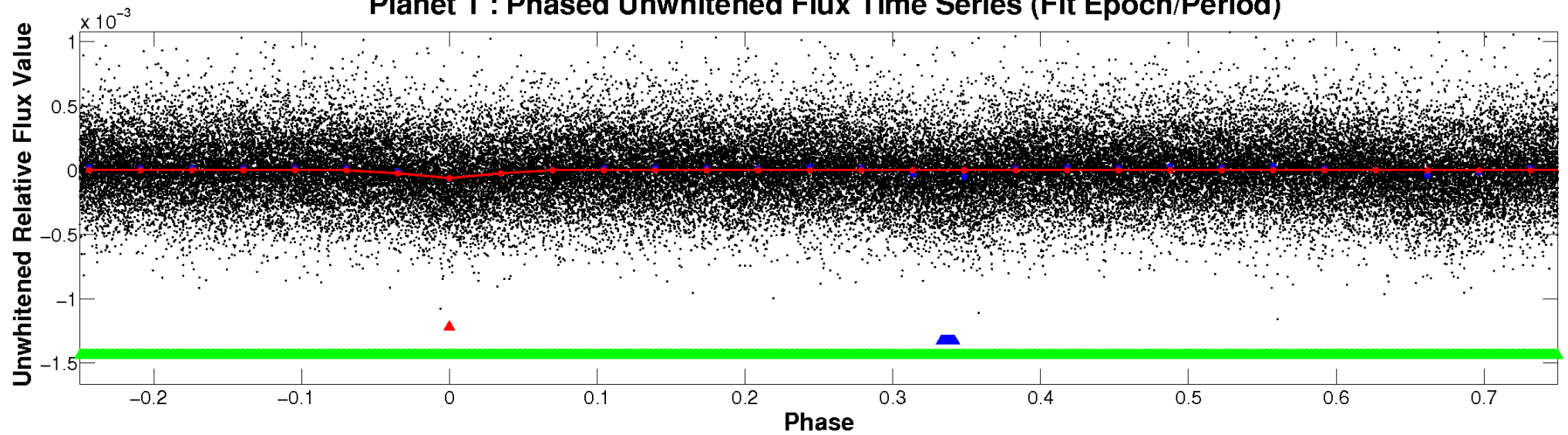
ALT Odd/Even

TCE 008527297-01

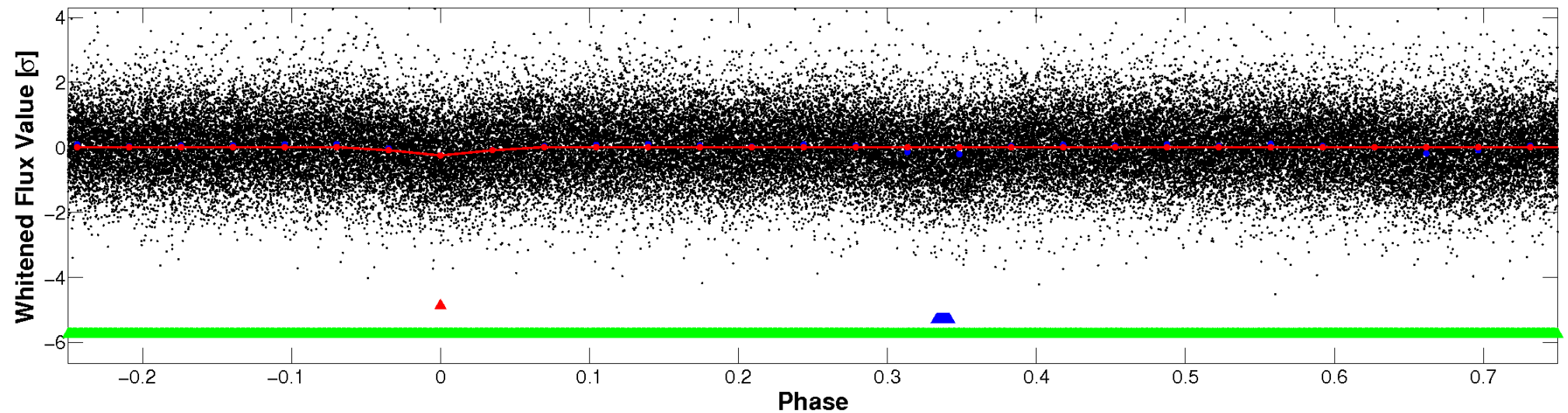


Non-Whitened Vs. Whitened Light Curve

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

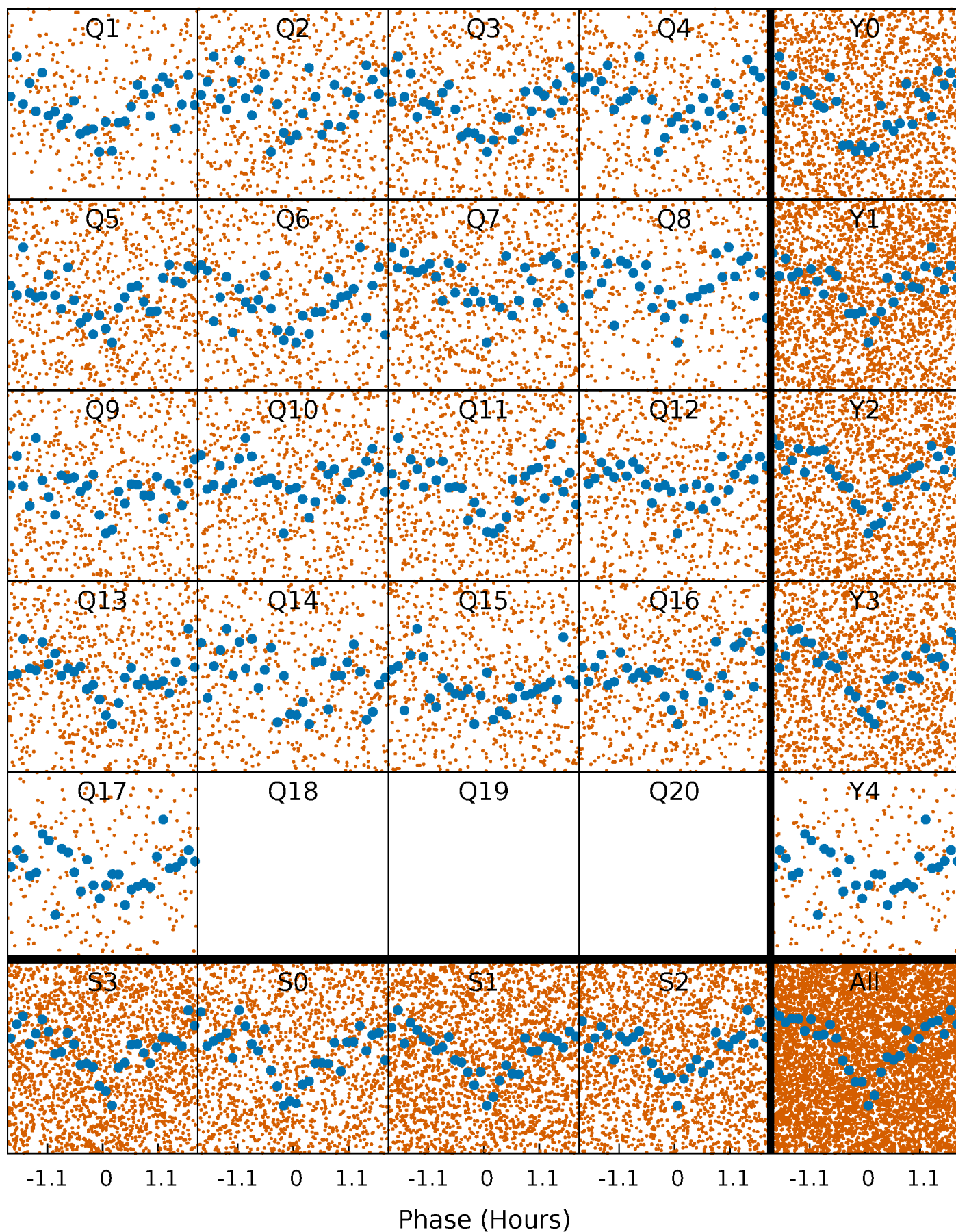


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



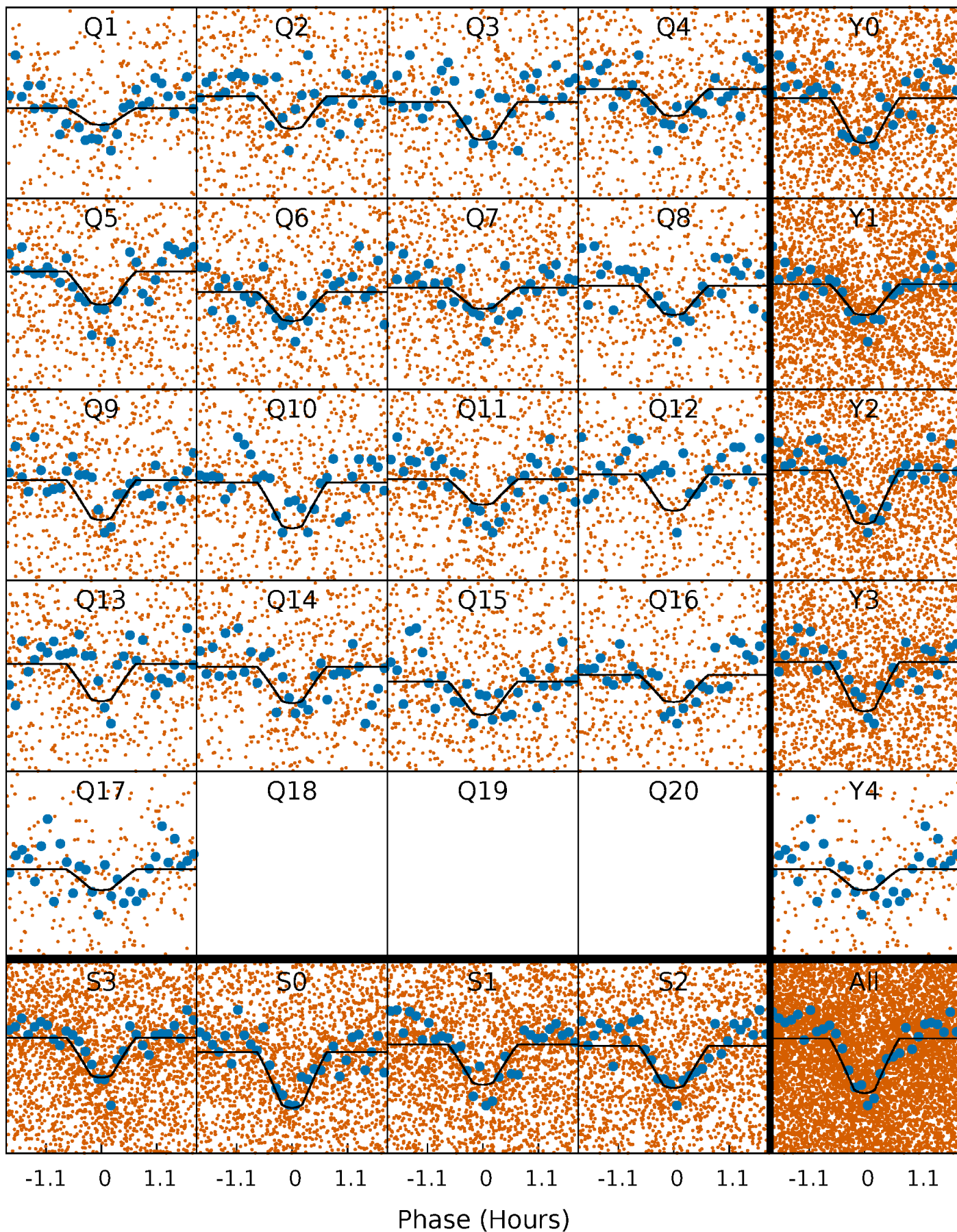
PDC Quarter-Phased Transit Curves

TCE 008527297-01 P= 0.586662 Days $T_0=132.006092$ (BKJD)



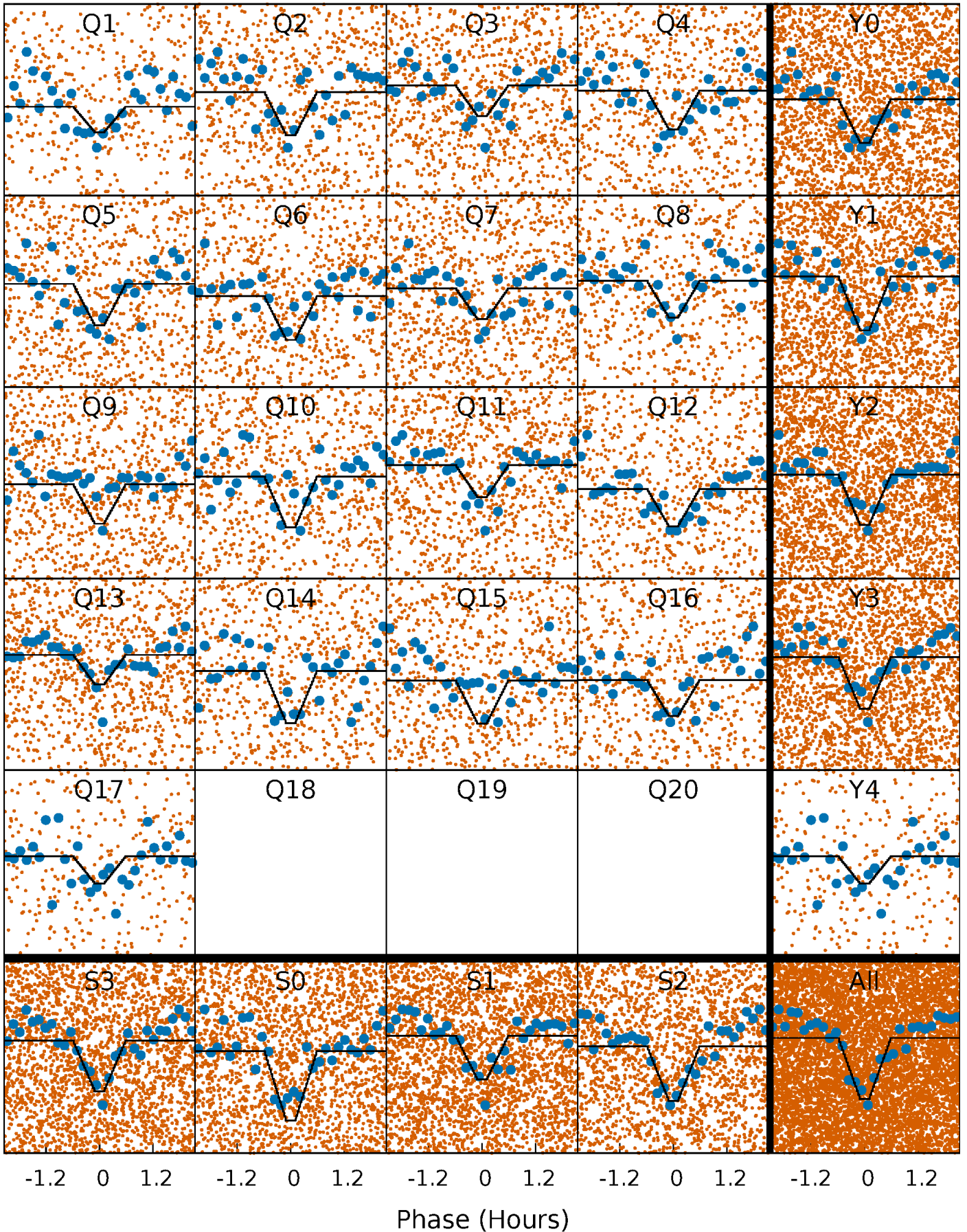
DV Quarter-Phased Transit Curves

TCE 008527297-01 P= 0.586662 Days $T_0=132.006092$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

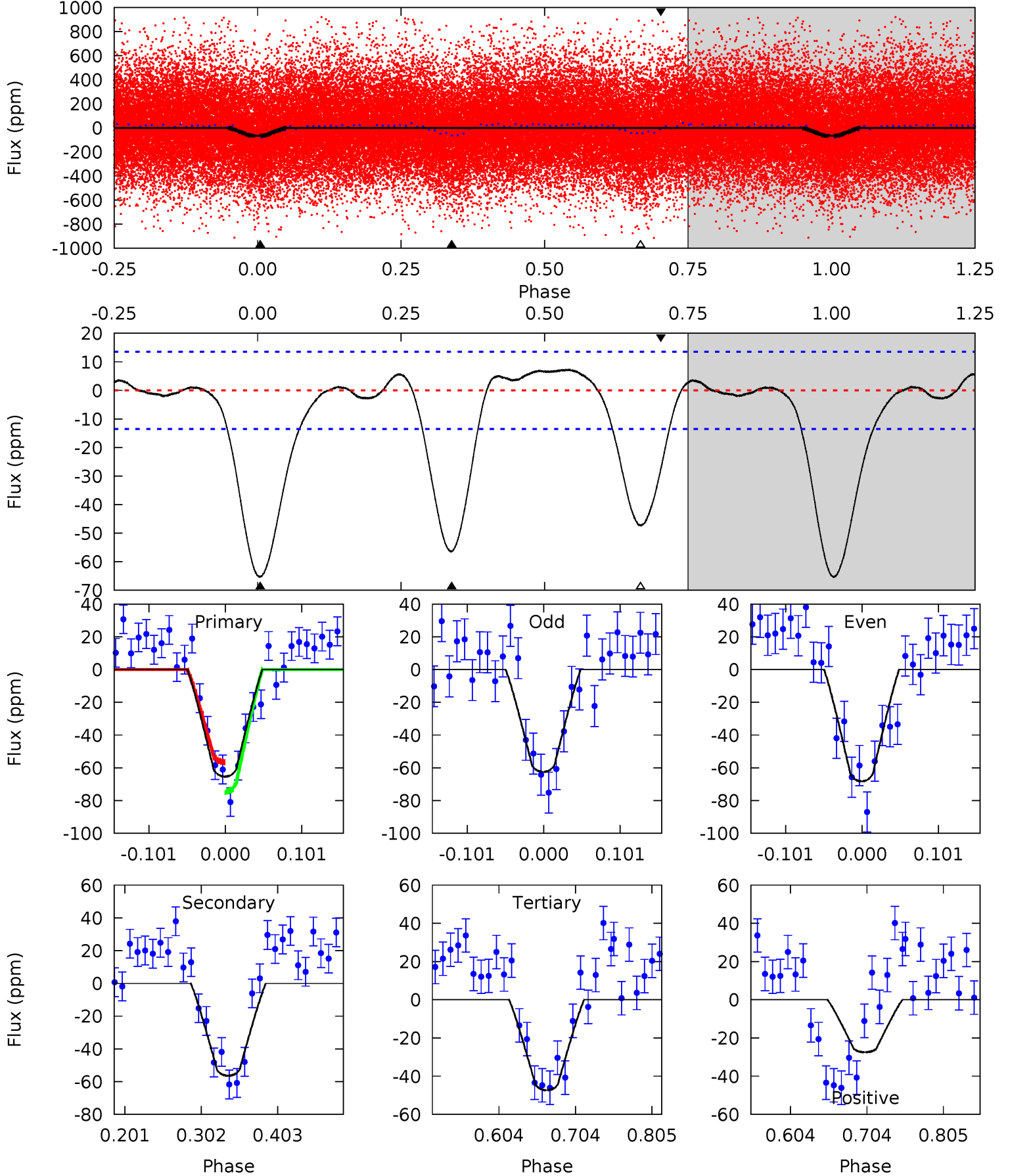
TCE 008527297-01 P= 0.586664 Days $T_0=132.006034$ (BKJD)



DV Model-Shift Uniqueness Test

008527297-01, P = 0.586662 Days, E = 131.419430 Days

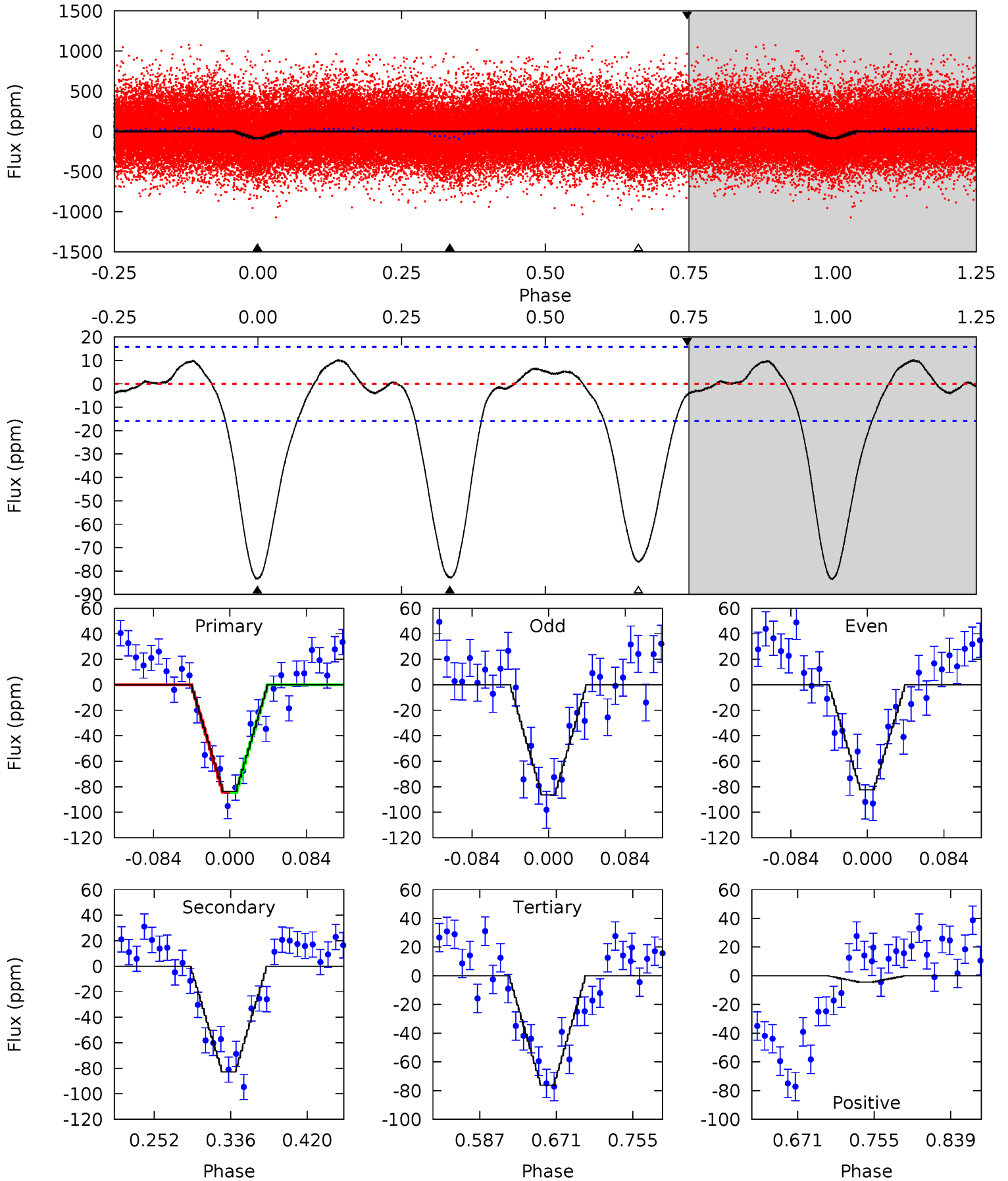
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.1	19.1	16.0	-9.27	4.56	1.64	4.79	6.07	31.3	3.06	28.3	0.96	0.89	0.10	3.04



Alt Model-Shift Uniqueness Test

008527297-01, P = 0.586664 Days, E = 131.419370 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.3	24.2	22.2	-1.29	4.60	1.73	6.46	2.13	25.6	1.97	25.4	0.57	0.87	0.11	0.02



Stellar Parameters For KIC 008527297

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6137^{+171}_{-214}	$4.460^{+0.056}_{-0.224}$	$-0.060^{+0.250}_{-0.300}$	$1.018^{+0.341}_{-0.114}$	$1.086^{+0.153}_{-0.153}$	$1.452^{+0.425}_{-0.776}$
	+3%/-3%	+1%/-5%	+417%/-500%	+33%/-11%	+14%/-14%	+29%/-53%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 008527297-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-56 ± 3	$1.02^{+0.30}_{-0.28}$	3288^{+252}_{-178}	5595^{+967}_{-584}	$5.779^{+5.297}_{-2.328}$
Alt.	-83 ± 3	$1.06^{+0.29}_{-0.26}$	3283^{+242}_{-174}	6092^{+968}_{-641}	$8.055^{+5.732}_{-3.070}$

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 $A_{obs} \gg 1.0$

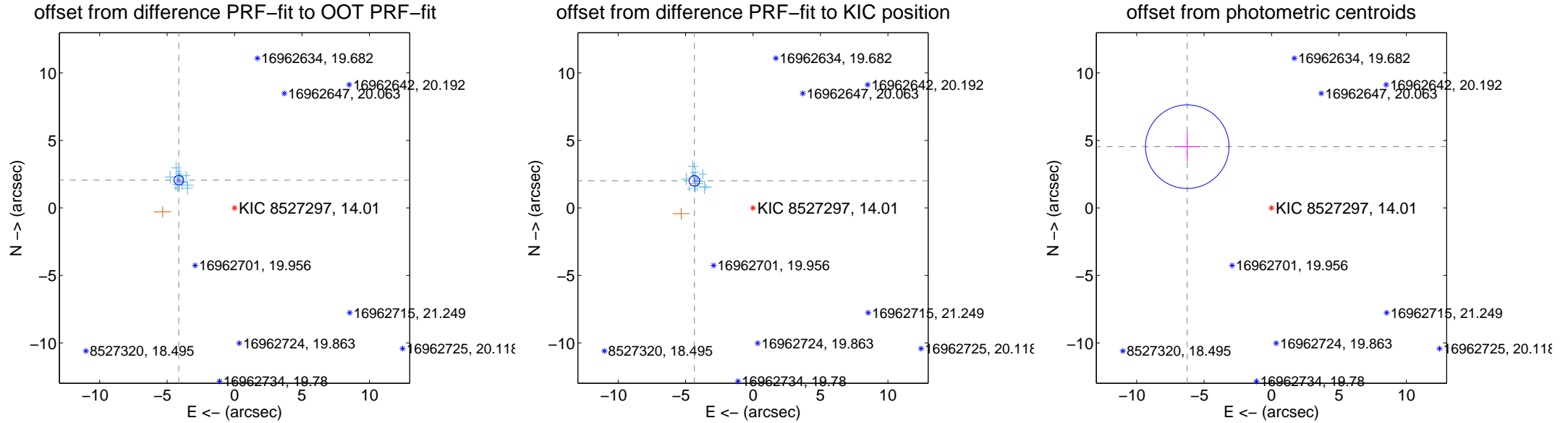
DV Centroid Data

Supplemental centroid analysis for 008527297-01. Kepler magnitude: 14.01. Transit SNR 13.79

There are 15 quarters with good PRF difference image offsets

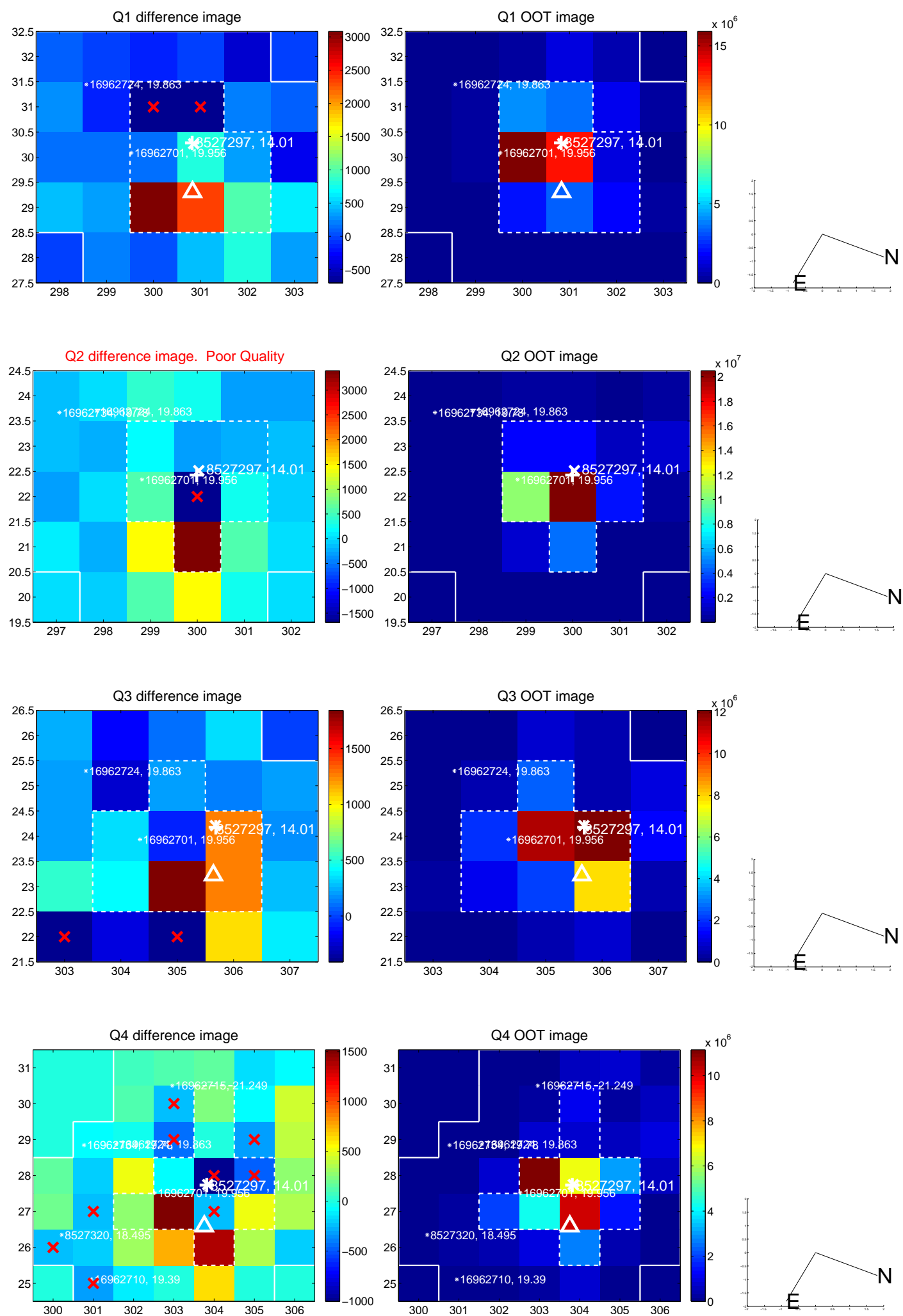
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.622 \pm 0.119	38.86	4.139 \pm 0.111	2.057 \pm 0.145
PRF-fit source offset from KIC position	4.788 \pm 0.131	36.50	4.347 \pm 0.126	2.007 \pm 0.153
photometric centroid source offset	7.73 \pm 1.03	7.49	6.25 \pm 1.00	4.54 \pm 1.09

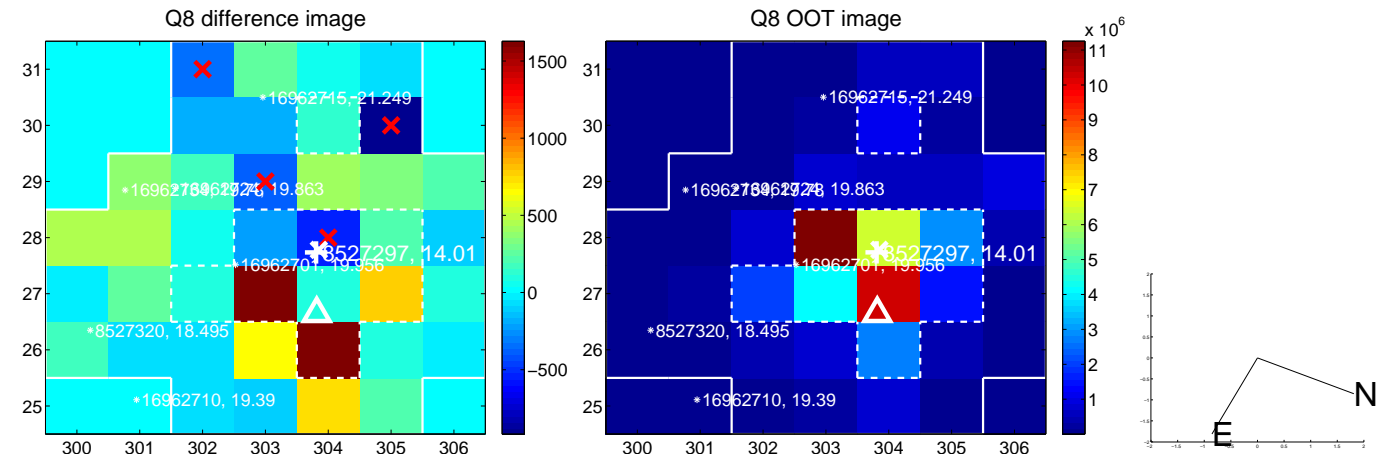
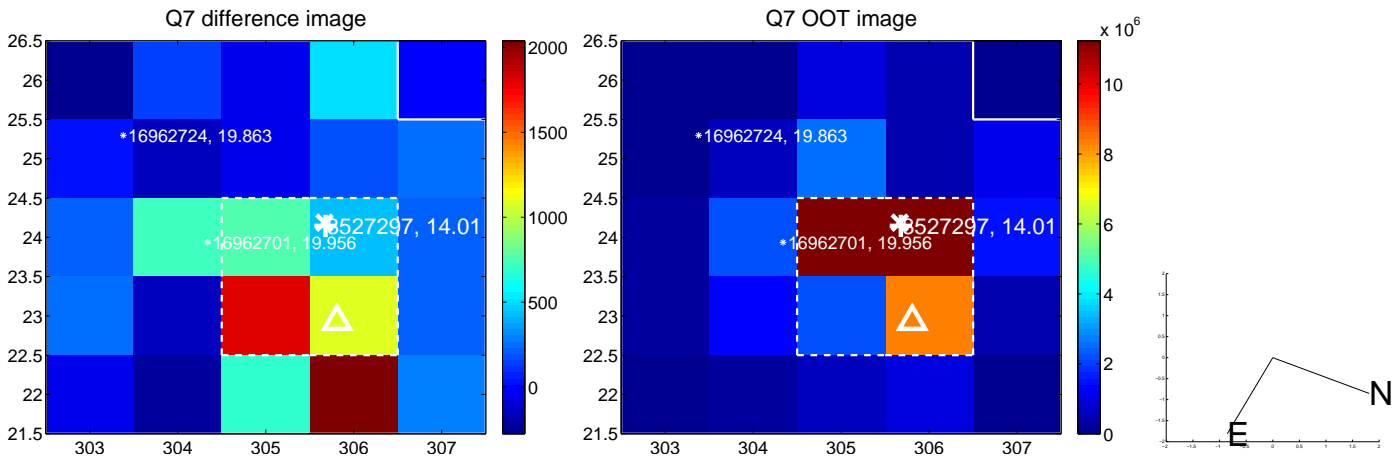
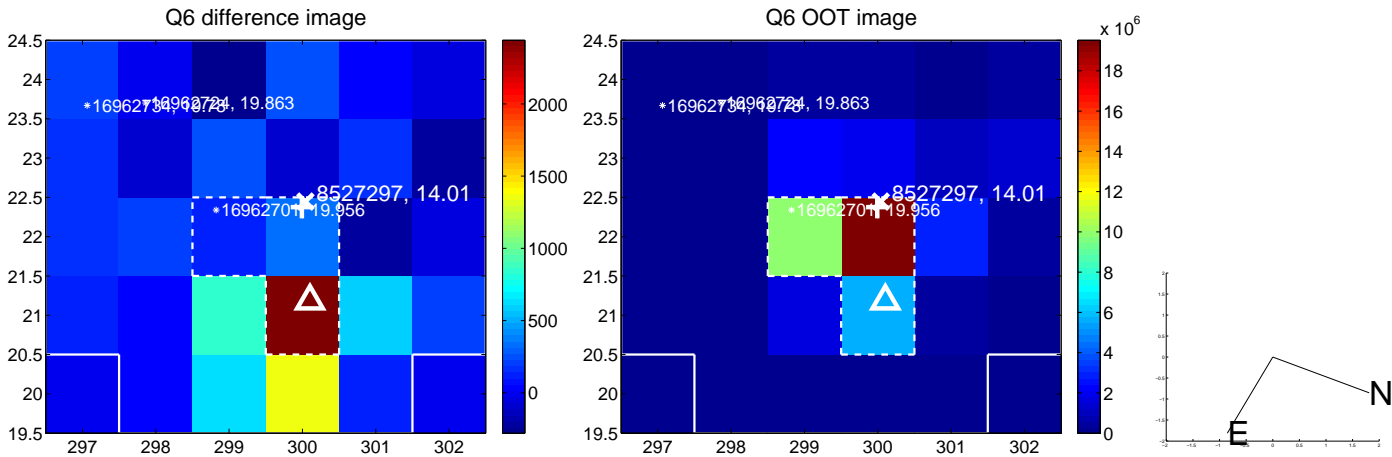
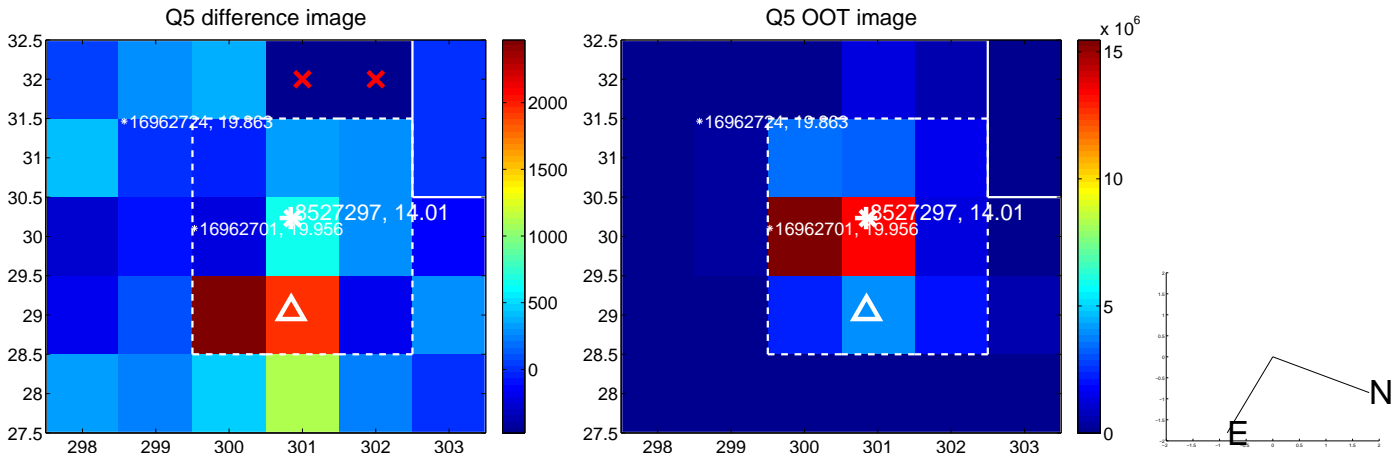


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

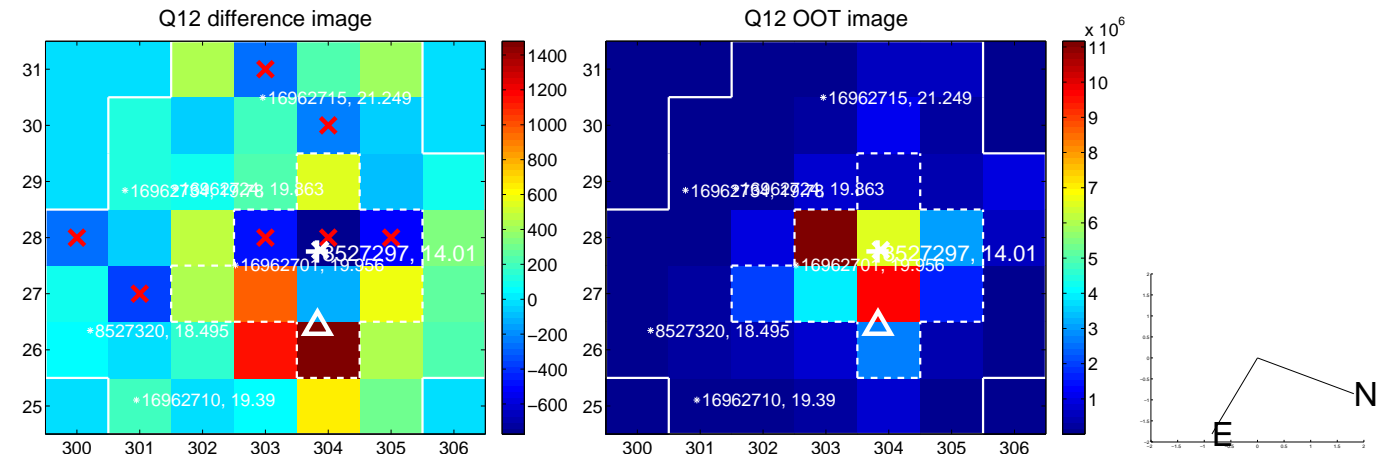
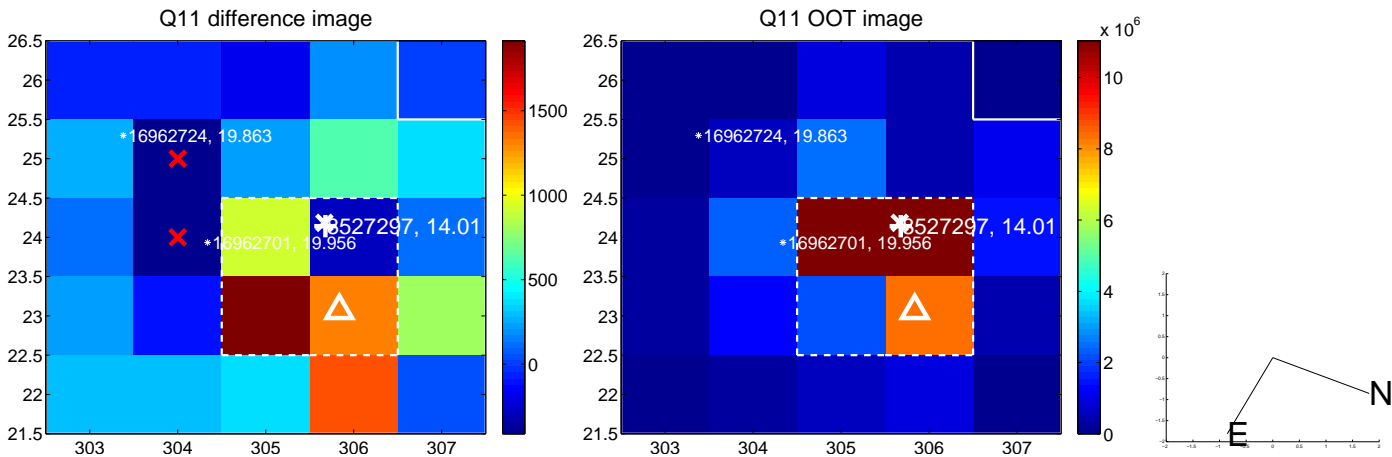
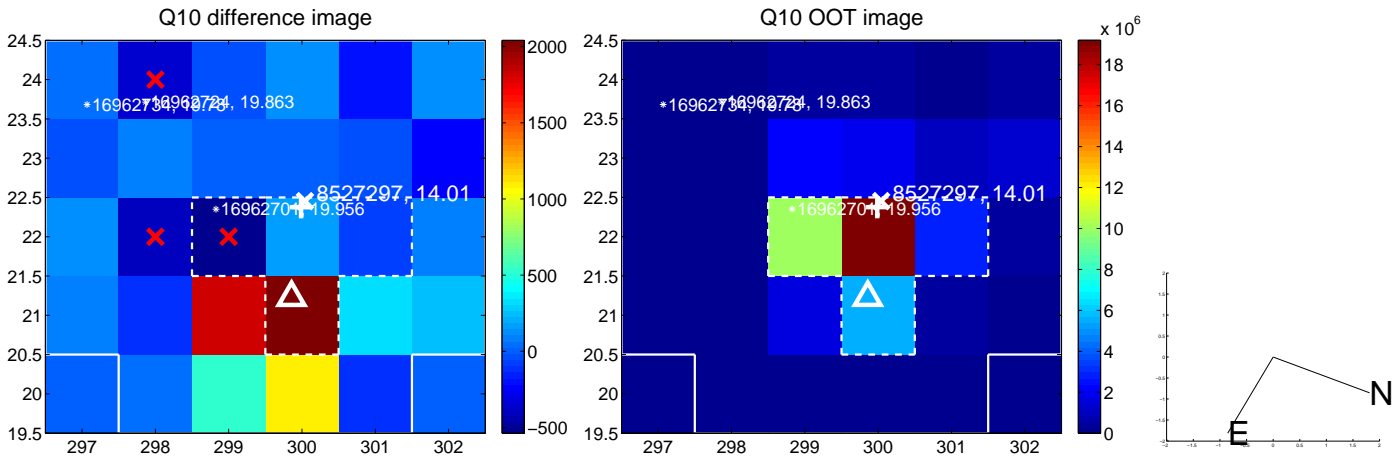
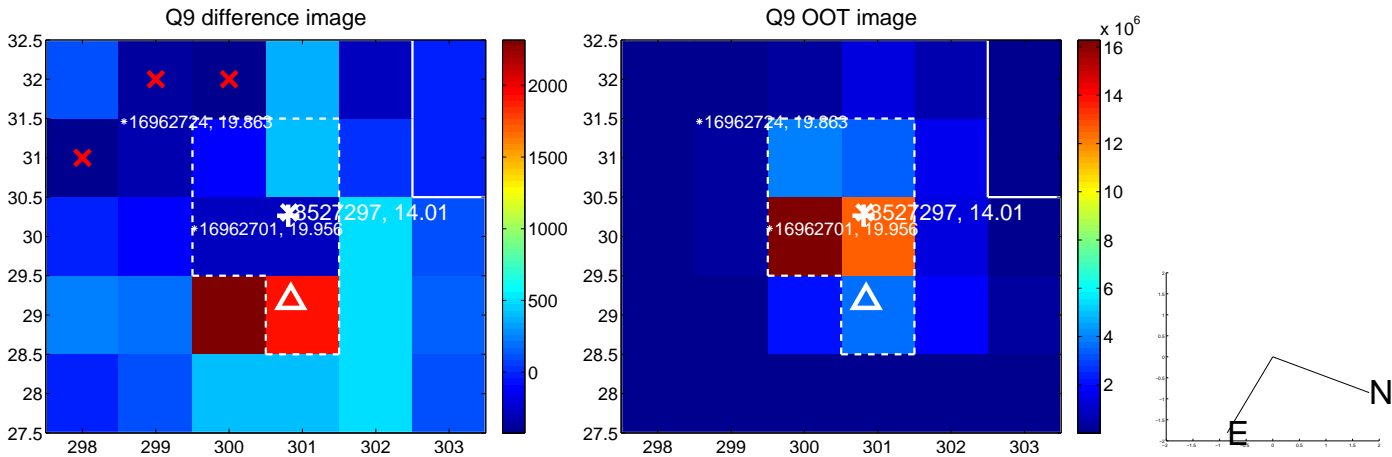
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



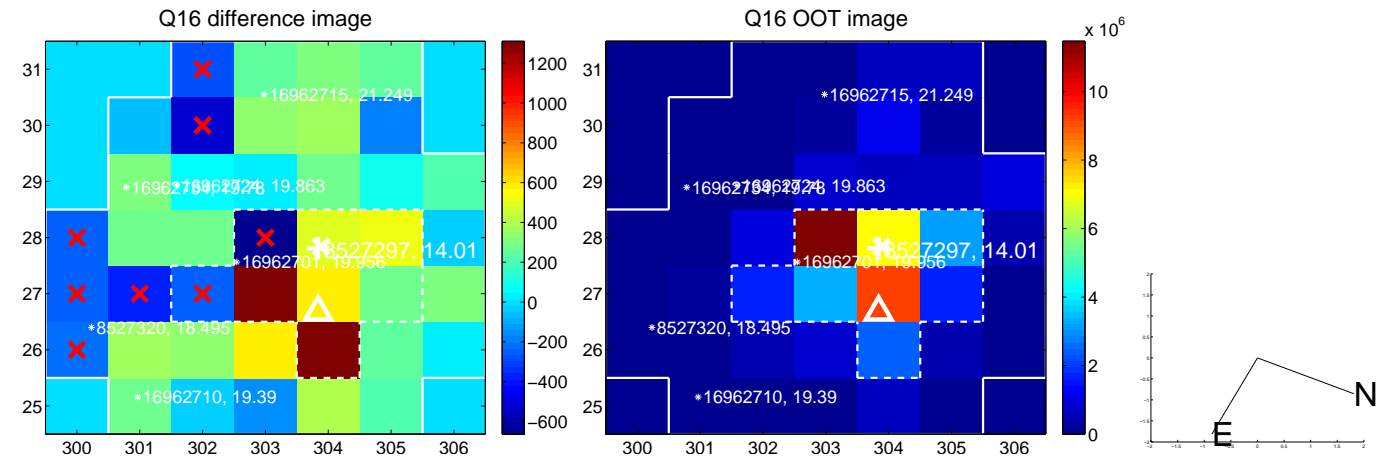
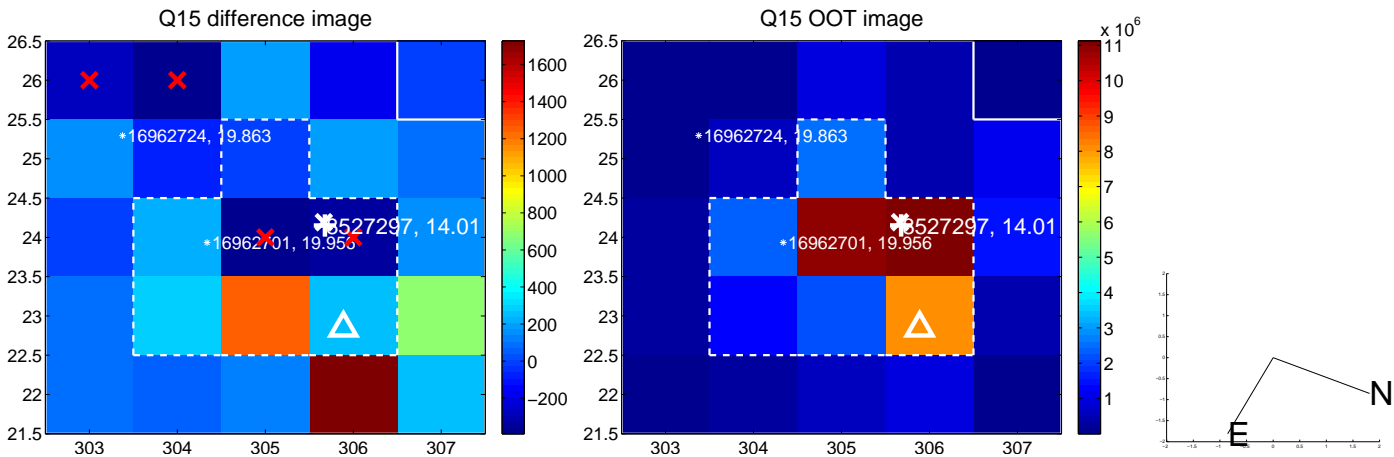
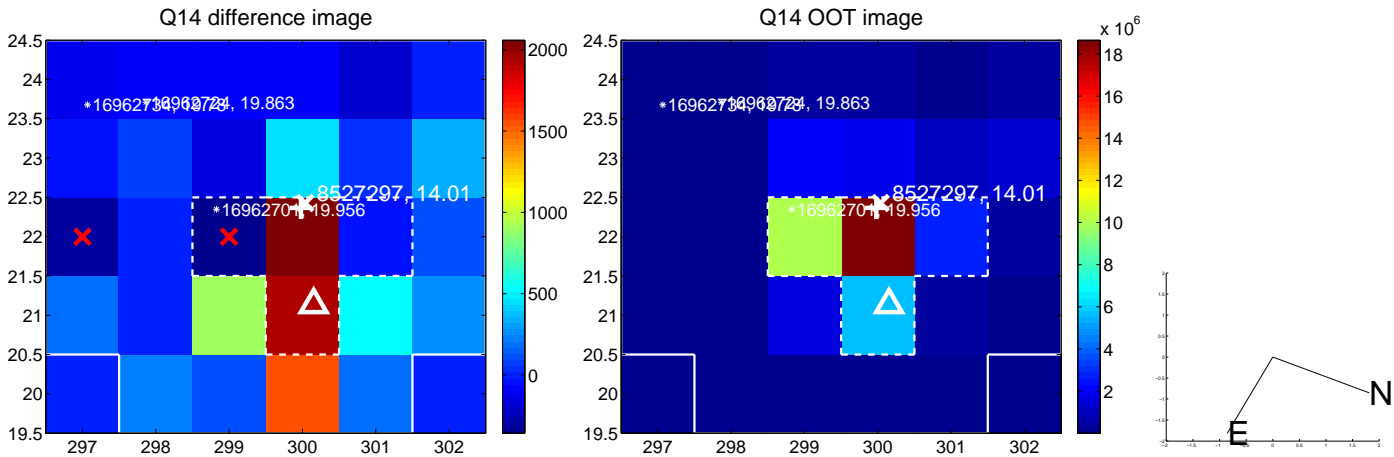
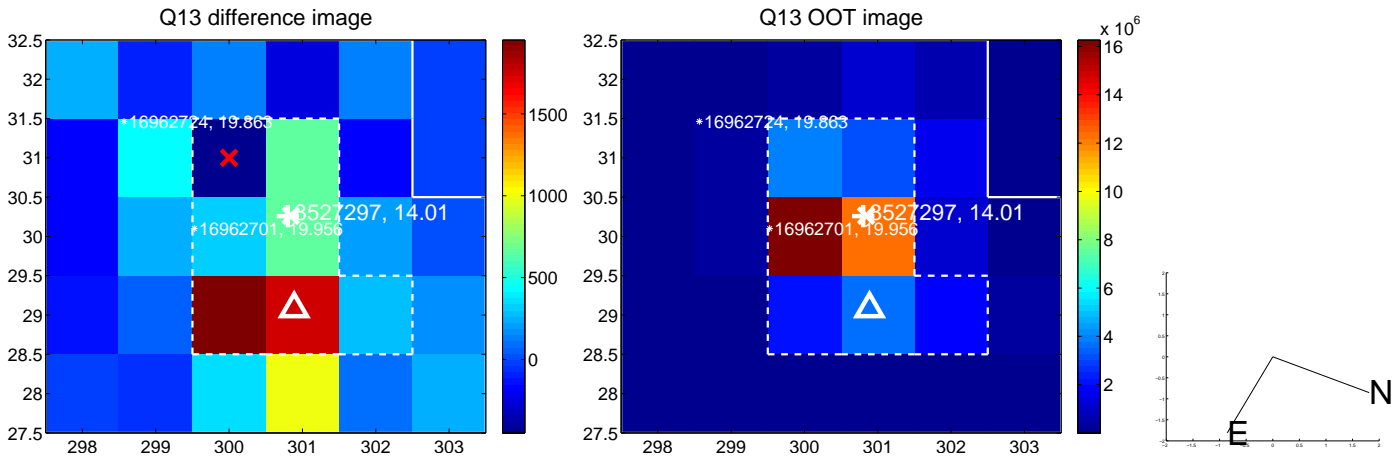
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



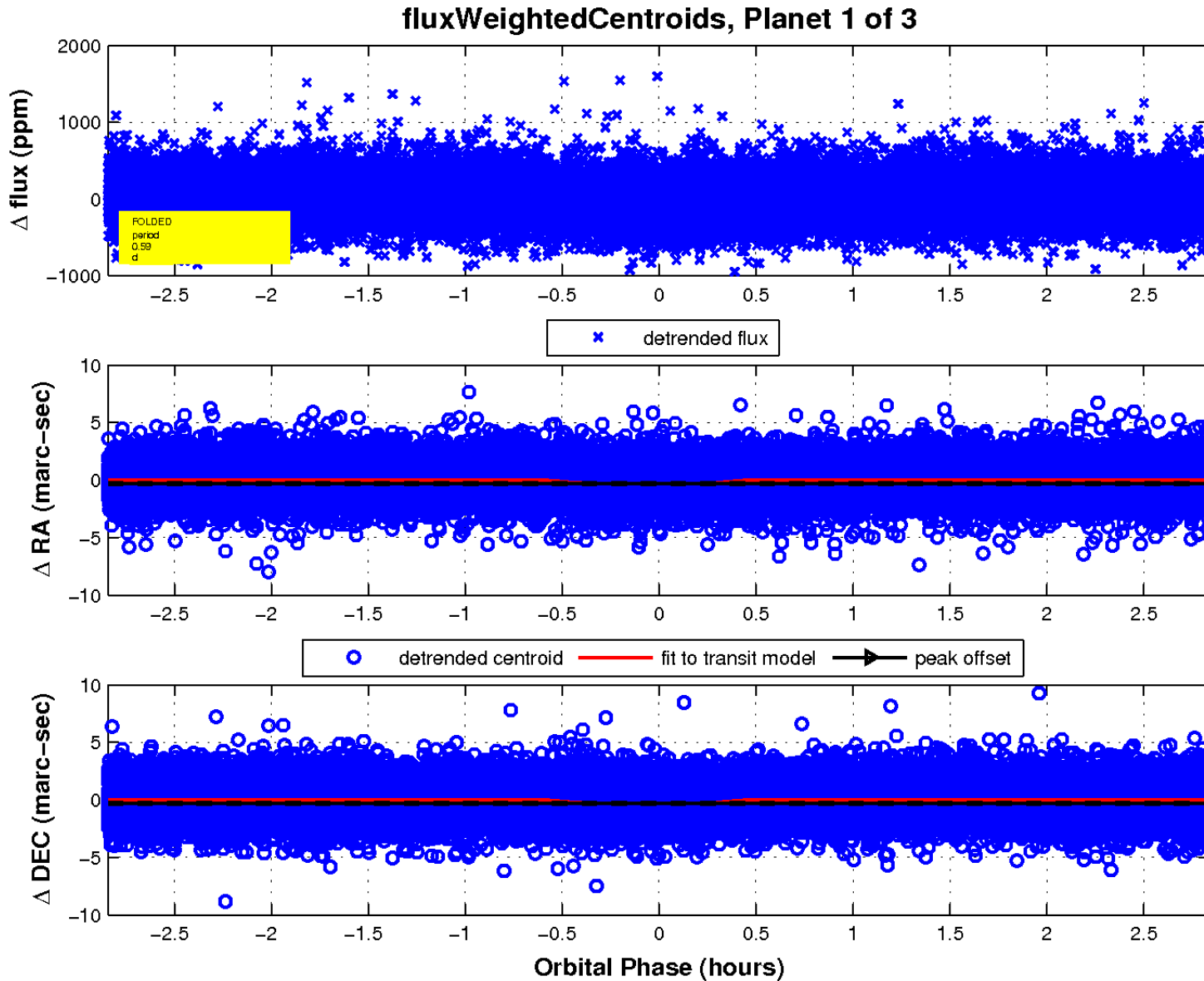
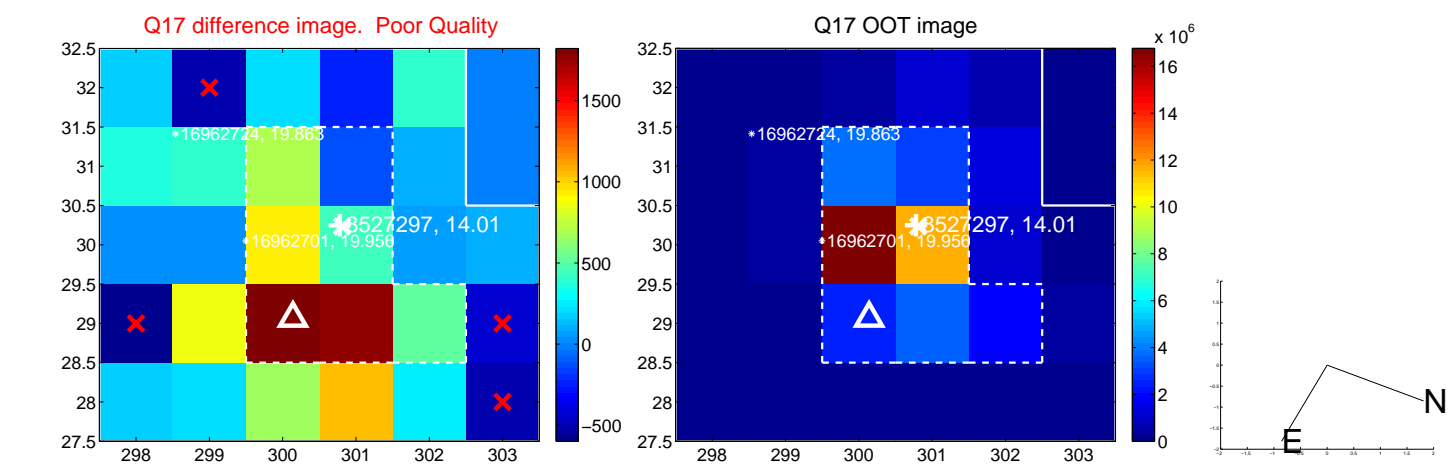
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

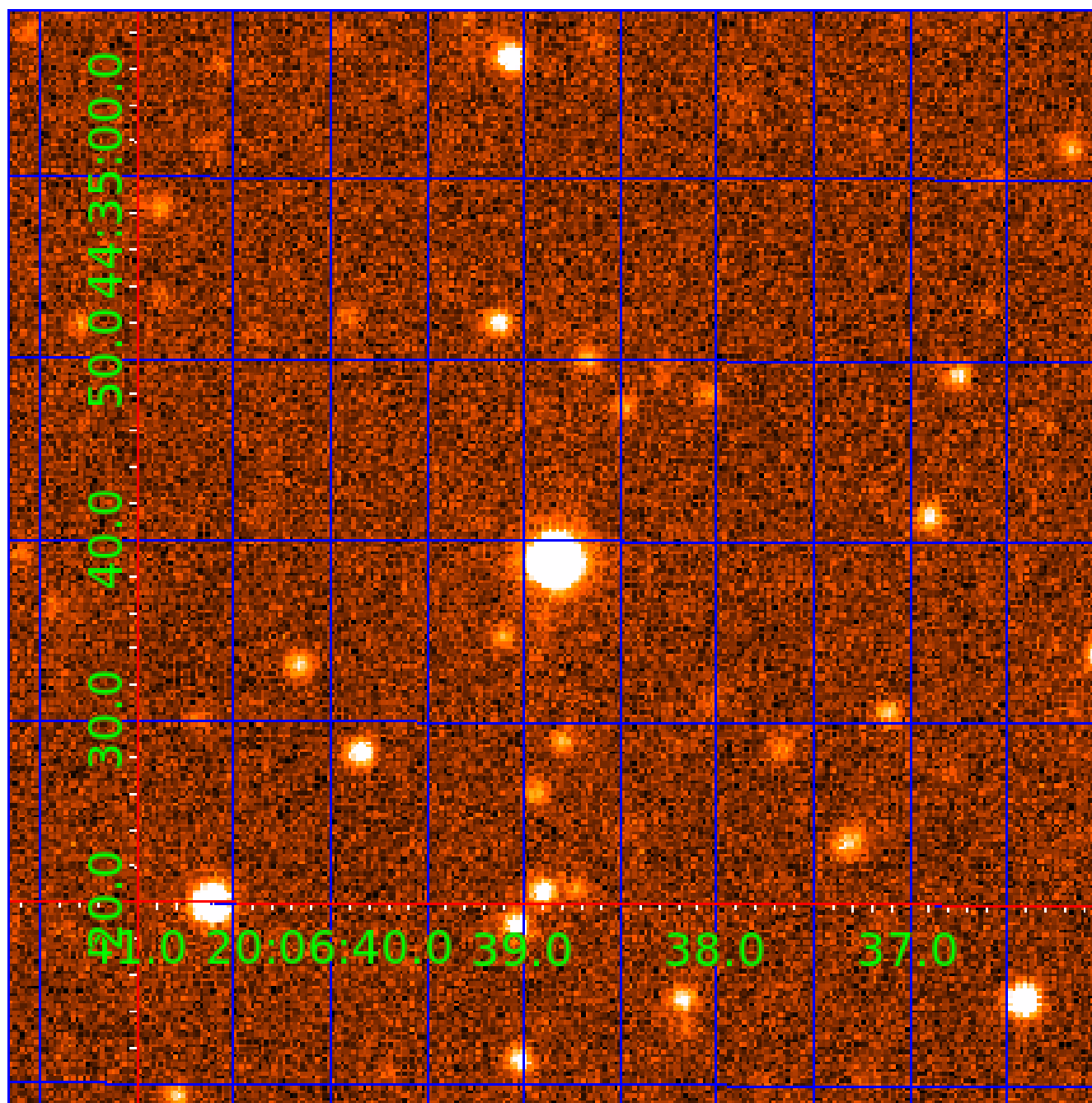


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008527297

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})
008527297-01	OBS	No	0.586662	132.006092	63.3	0.948	10.7	13.8	1.02	6137	0.96	6607.45
008527297-02	OBS	No	0.586664	131.614741	58.9	1.019	10.3	13.7	1.02	6137	0.93	6607.42
008527297-03	OBS	8157.01	0.587300	132.350232	38.3	0.824	9.2	4.8	1.02	6137	0.64	6597.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008527297-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
008527297-02	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_RESOLVED_OFFSET
008527297-03	OBS	PC	0.64	0	0	0	0	NO_COMMENT

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

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

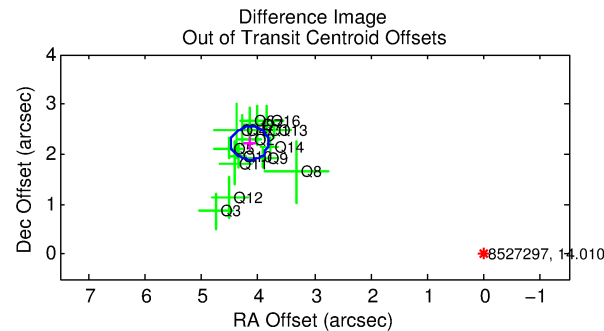
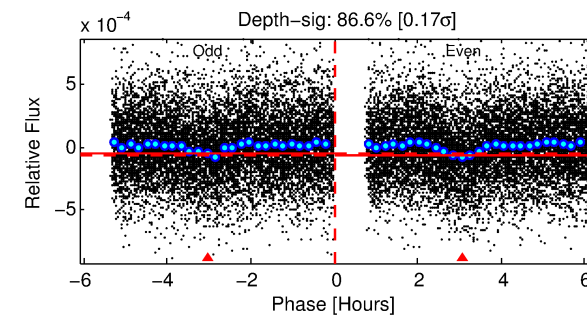
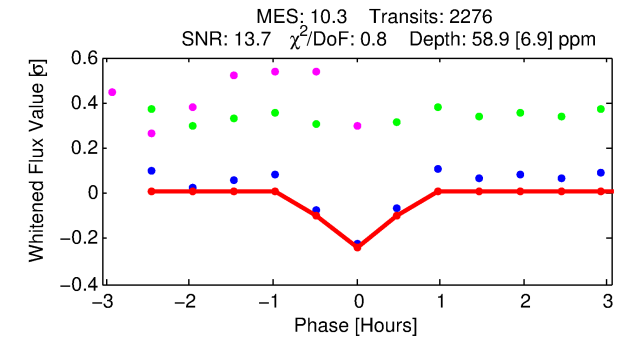
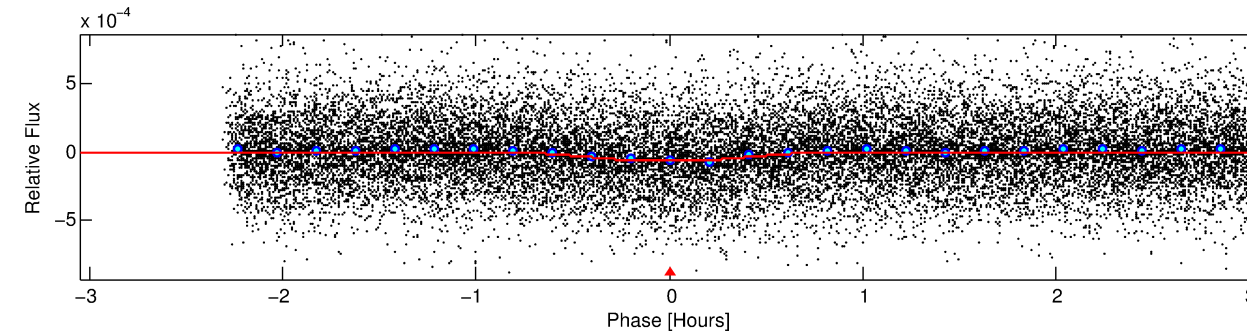
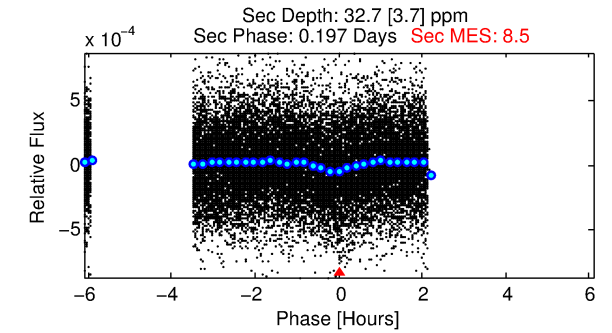
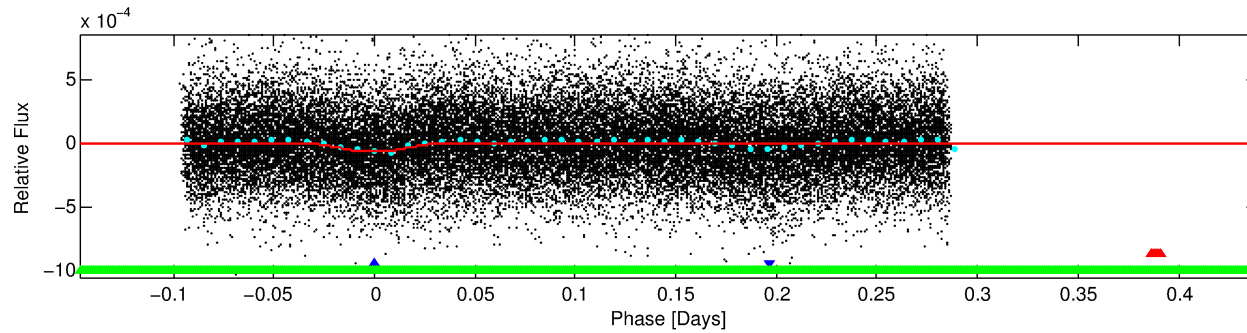
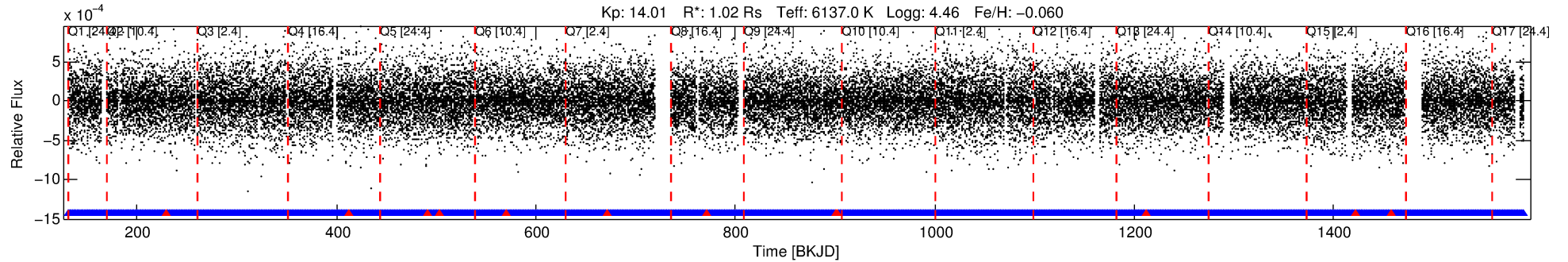
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008527297-02

No Significant Match Found

DV One-Page Summary

KIC: 8527297 Candidate: 2 of 3 Period: 0.587 d



DV Fit Results:

Period = 0.58666 [0.00001] d
Epoch = 131.6147 [0.0013] BKJD
Rp/R* = 0.0083 [0.0022]
a/R* = 2.21 [2.34]
b = 0.90 [0.29]
Seff = 6607.42 [2861.54]
Teq = 2299 [249] K
Rp = 0.93 [0.39] Re
a = 0.0141 [0.0040] AU
Ag = 4.17 [2.79] [1.14σ]
Teffp = 5081 [695] K [3.77σ]

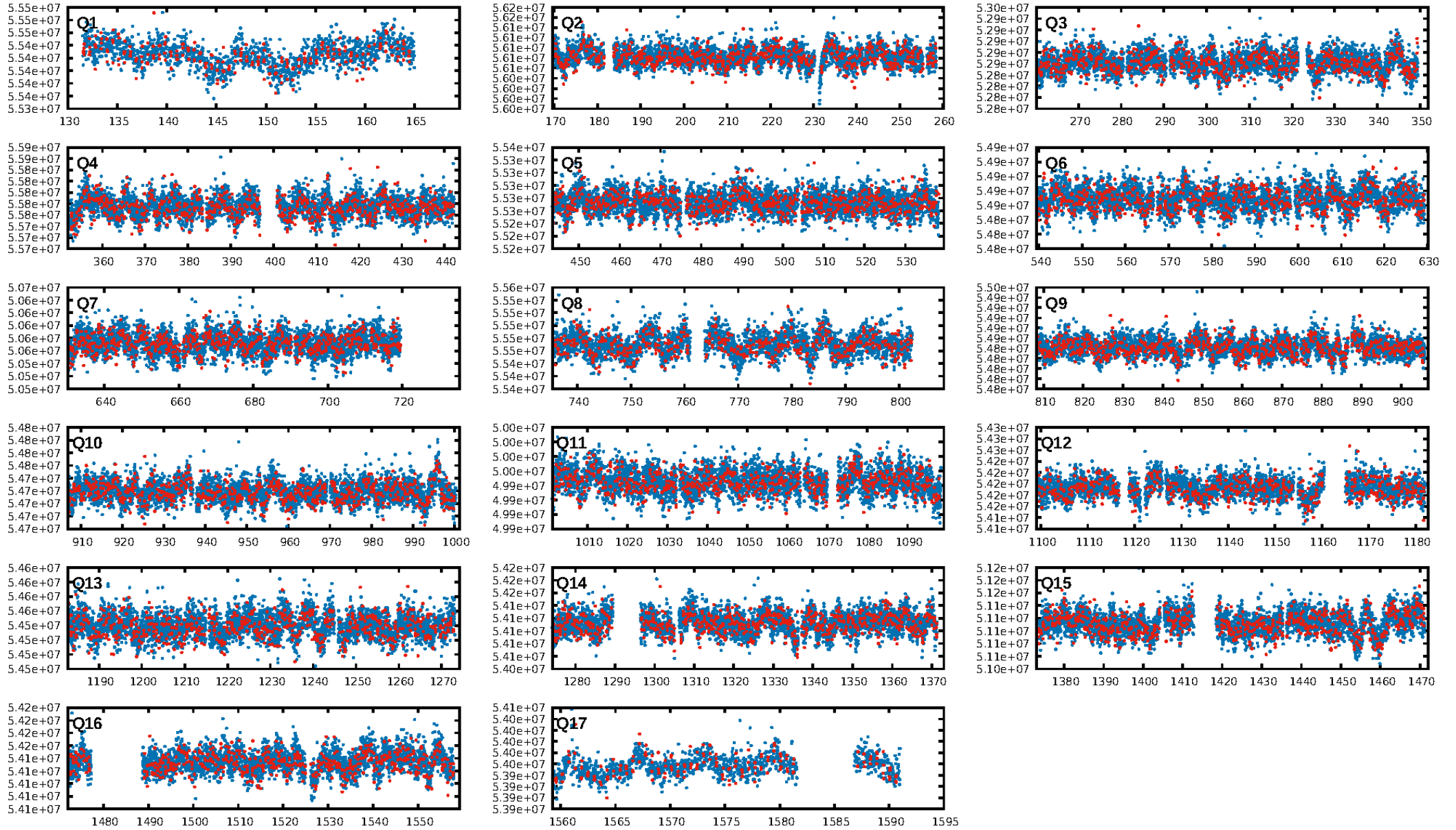
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 0.9% [0.01σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.31e-20
RollingBand-fgt: 0.99 [2162/2174]
GhostDiagnostic-chr: 0.9183
Centroid-sig: 0.0%
Centroid-so: 7.190 arcsec [6.83σ]
OotOffset-rm: 4.702 arcsec [42.80σ]
KicOffset-rm: 4.871 arcsec [44.26σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.94 [15/16]
DiffImageOverlap-fno: 0.00 [0/17]

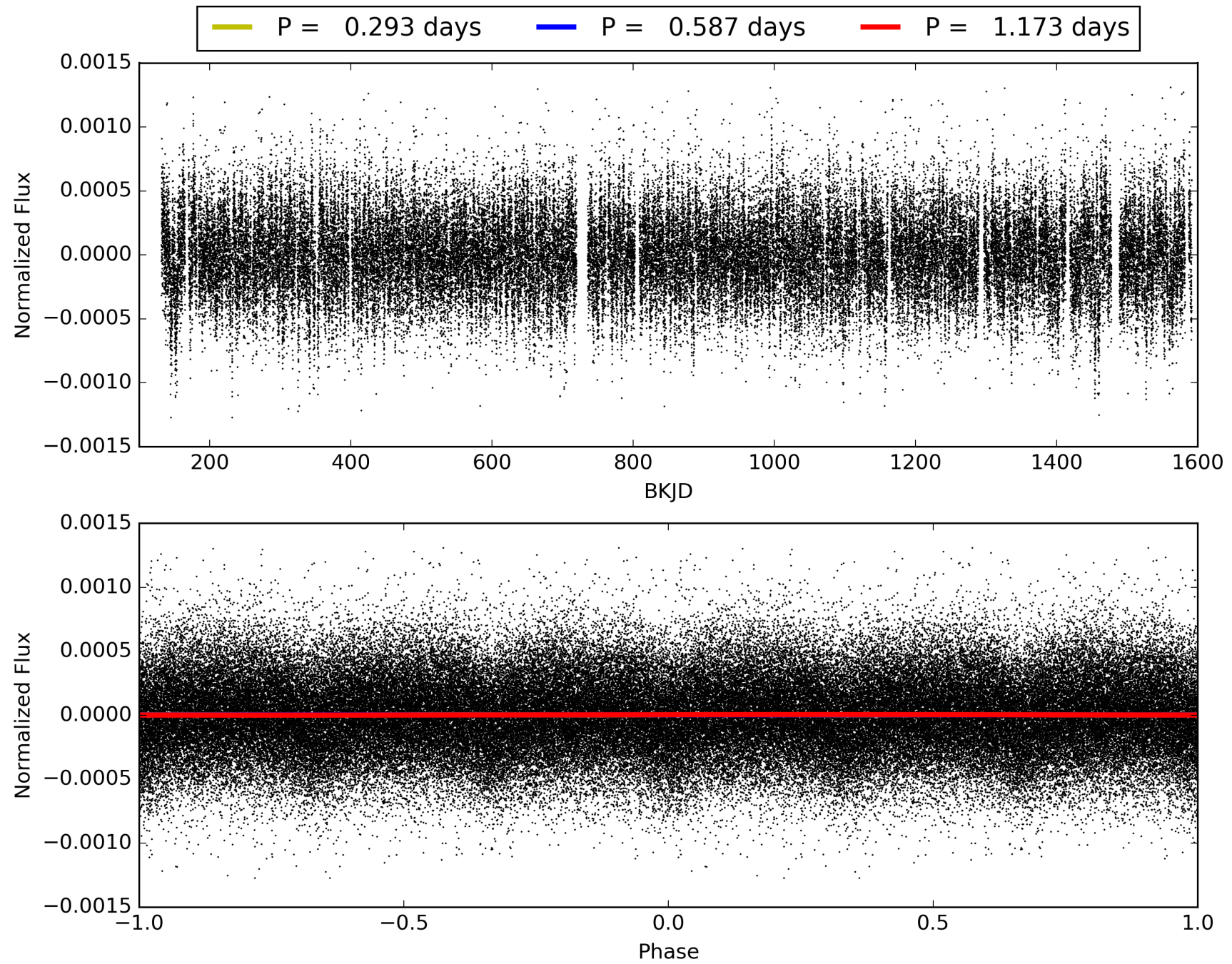
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 22:55:14 Z

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

TCE 008527297-02, PDC Light Curves

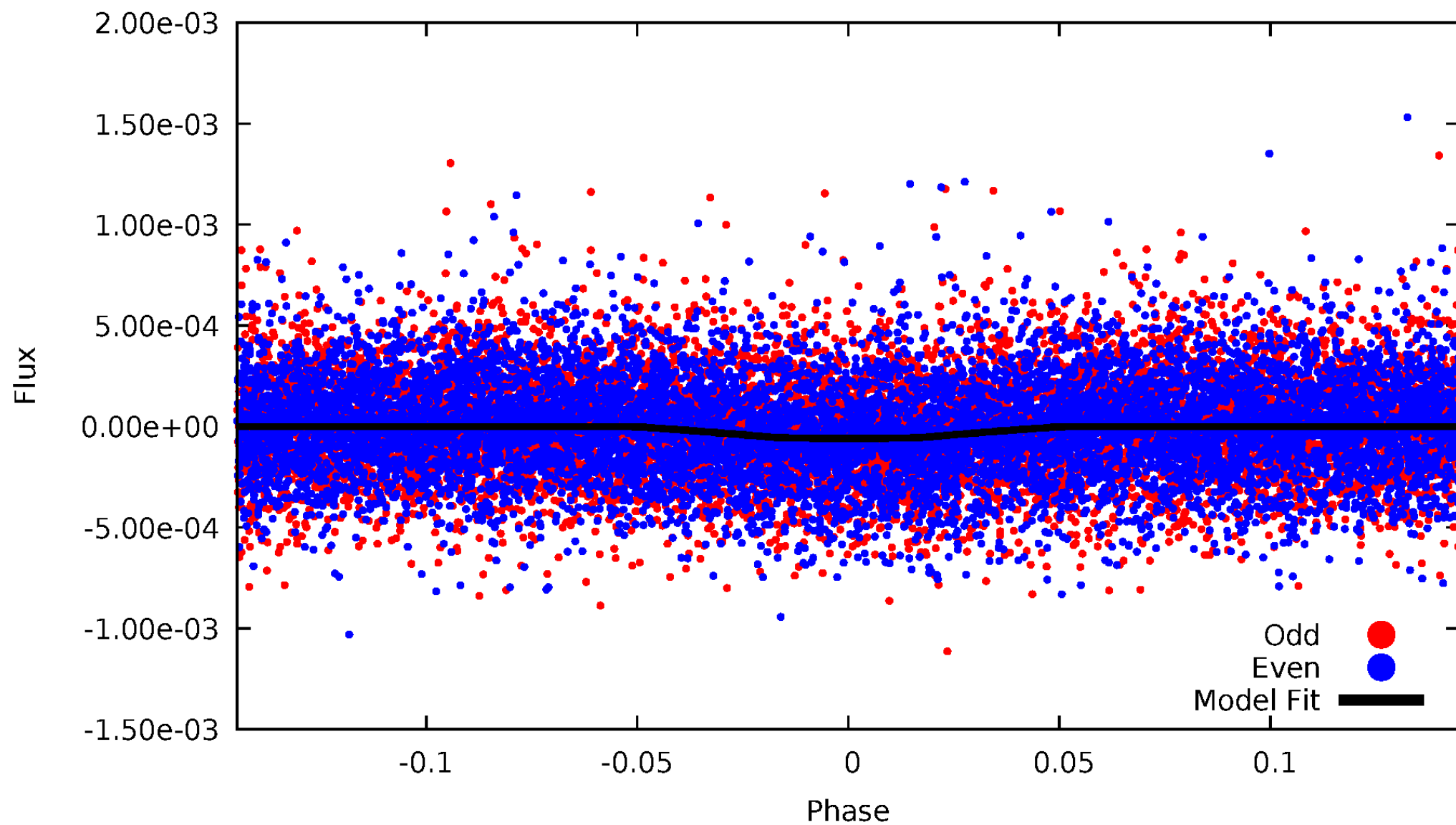


TCE 008527297-02



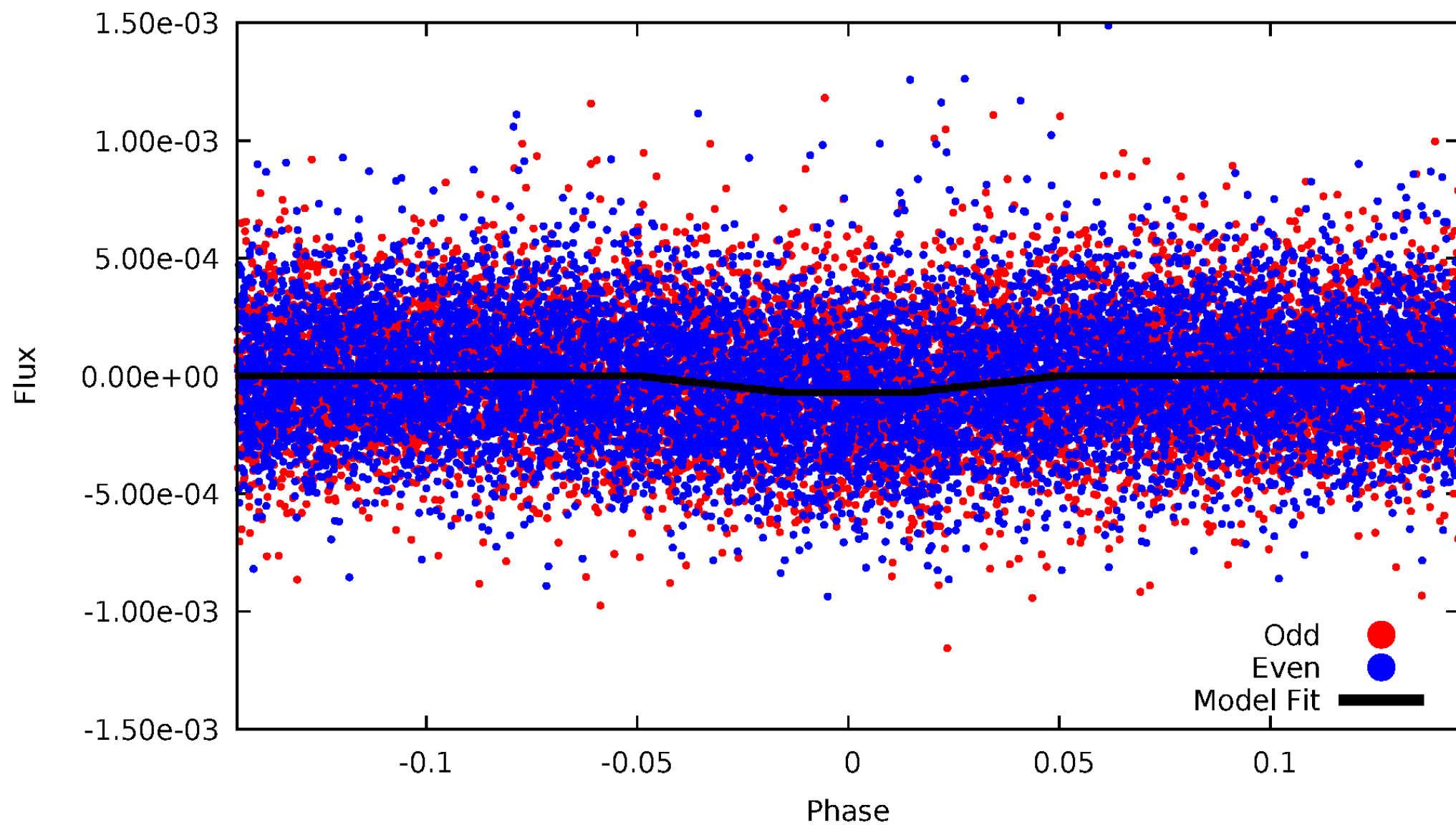
DV Odd/Even

TCE 008527297-02



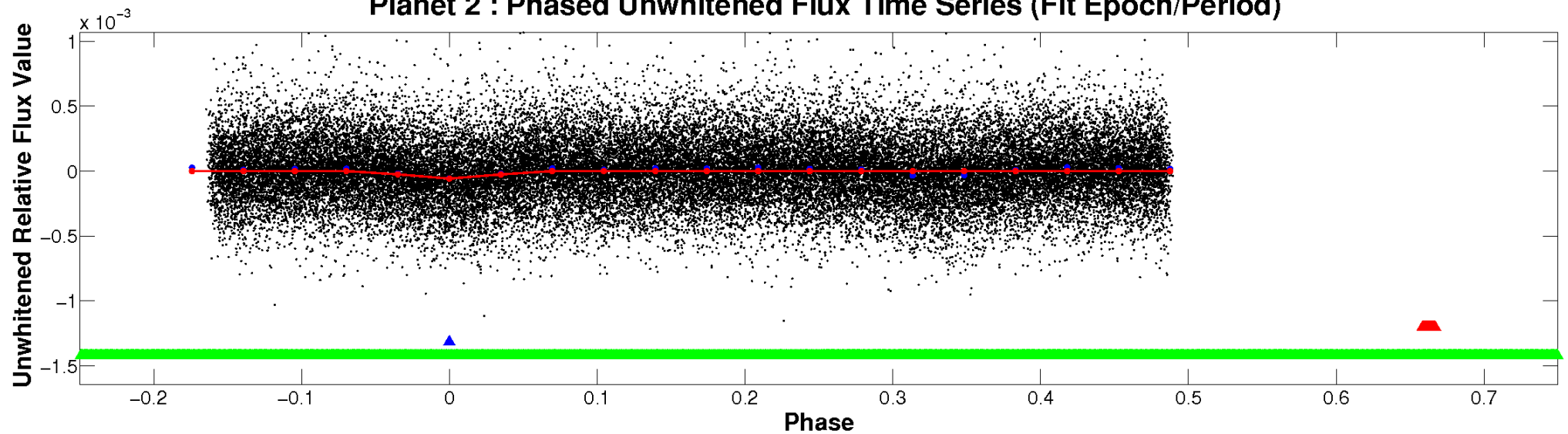
ALT Odd/Even

TCE 008527297-02

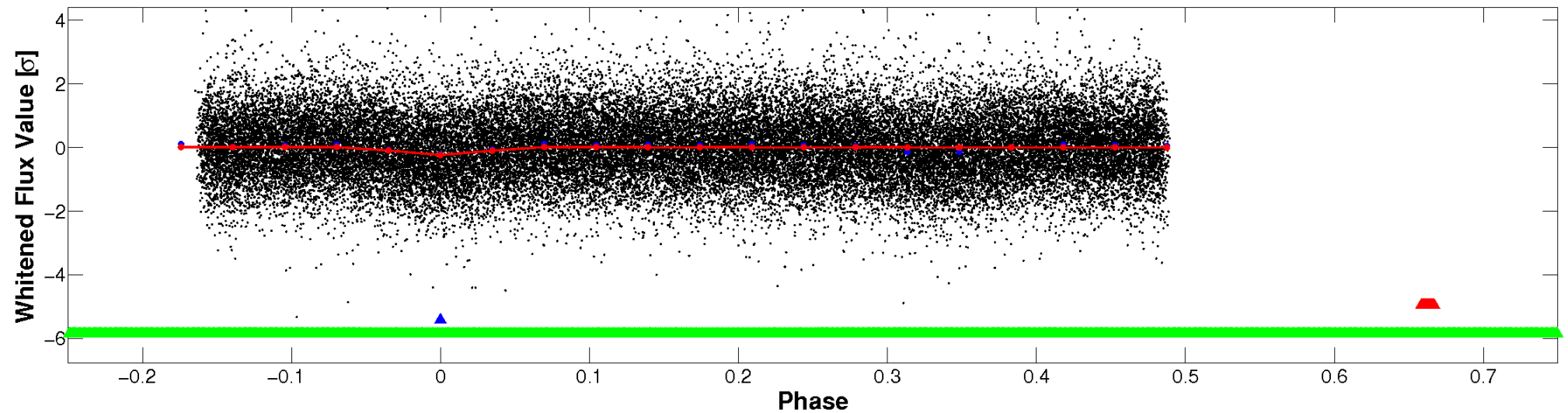


Non-Whitened Vs. Whitened Light Curve

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

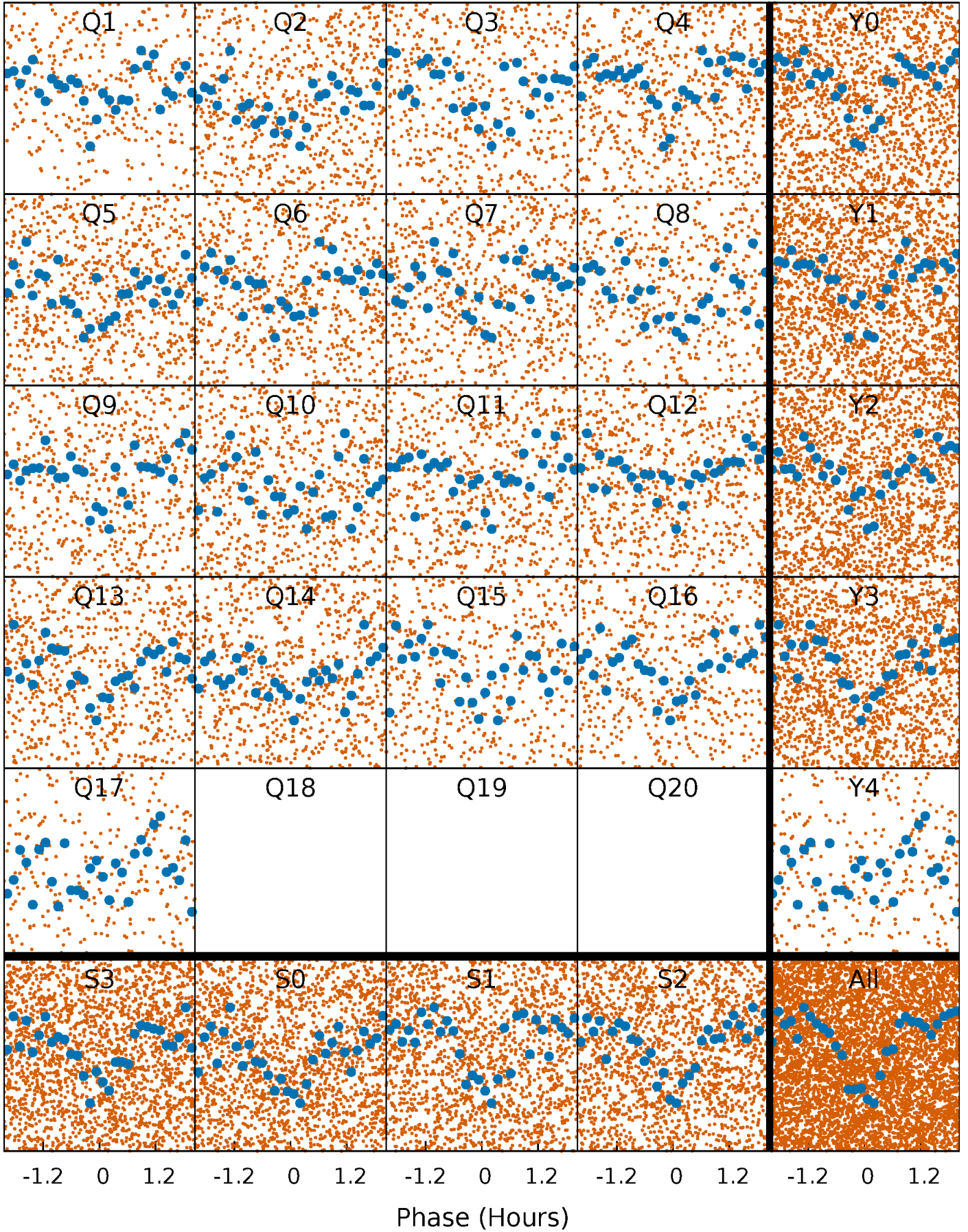


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



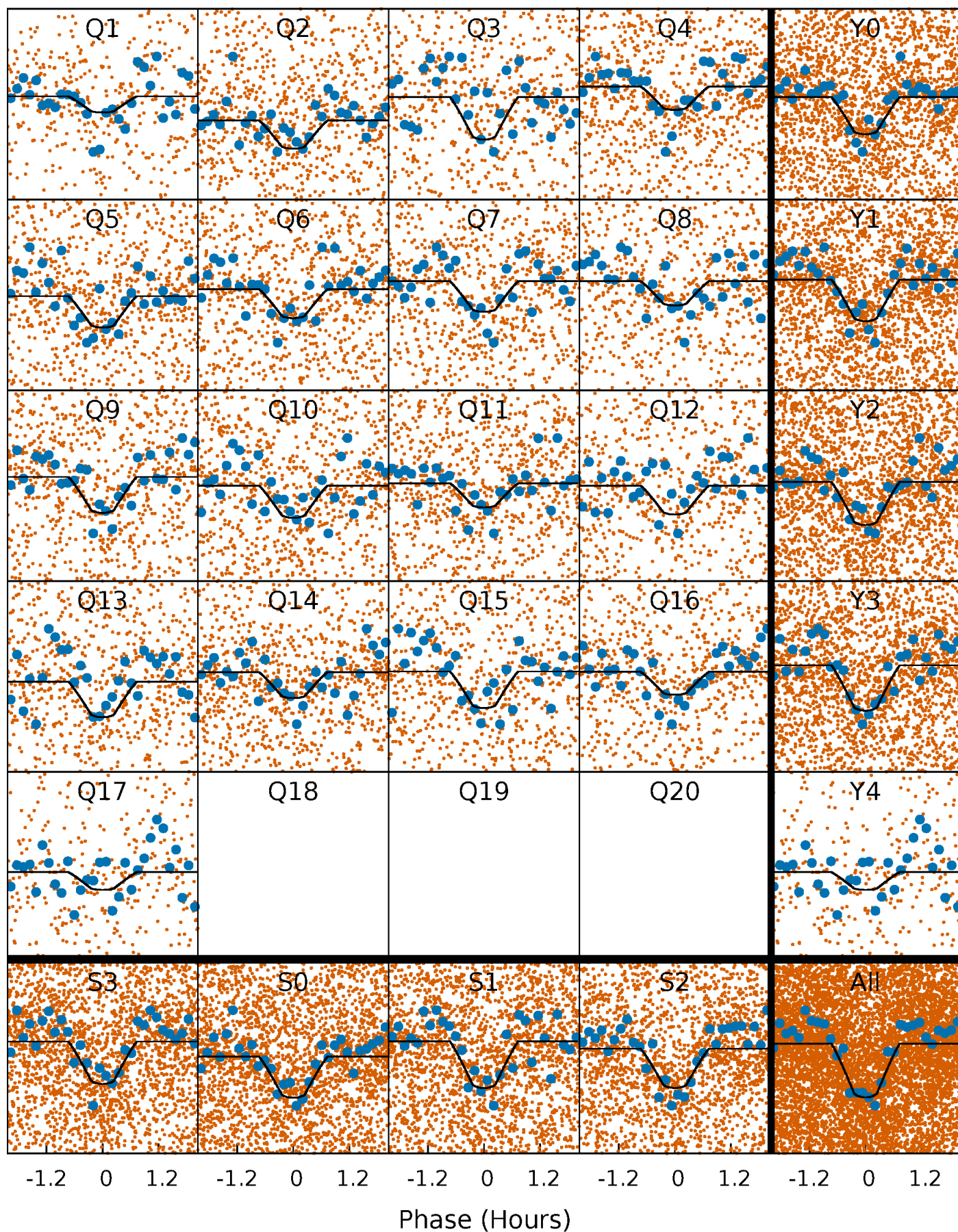
PDC Quarter-Phased Transit Curves

TCE 008527297-02 P= 0.586664 Days $T_0=131.614741$ (BKJD)



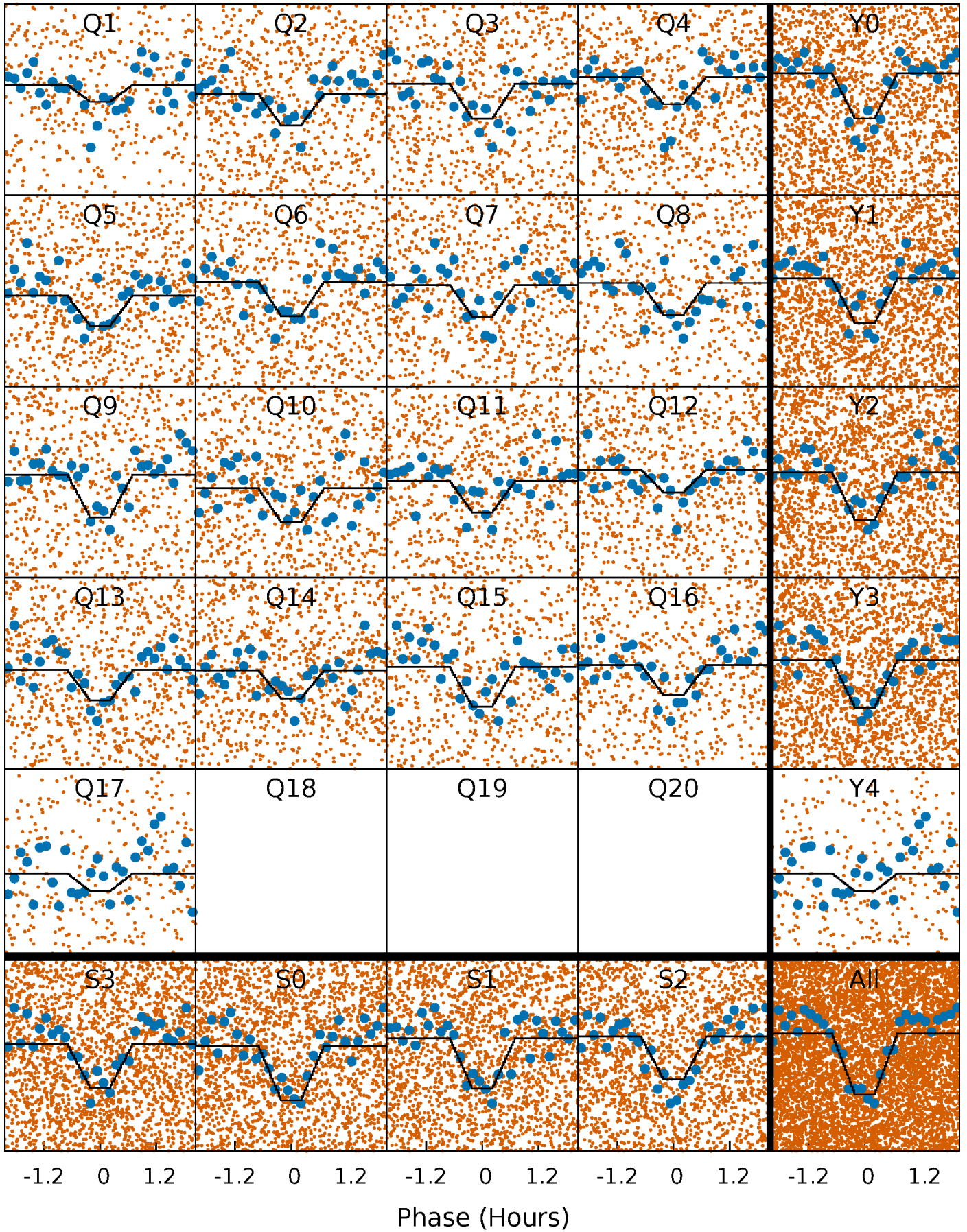
DV Quarter-Phased Transit Curves

TCE 008527297-02 $P = 0.586664$ Days $T_0 = 131.614741$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

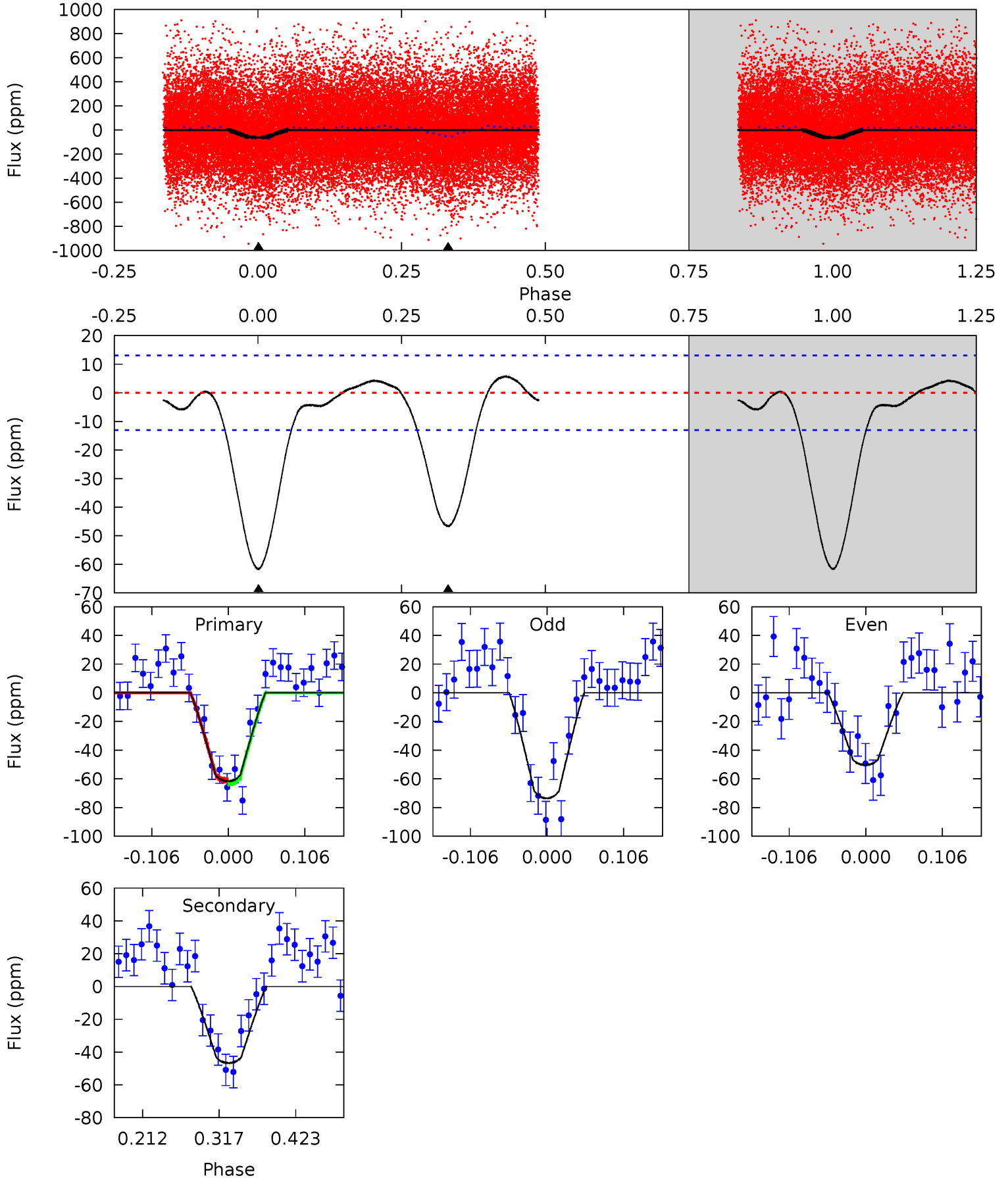
TCE 008527297-02 P= 0.586664 Days $T_0=131.614741$ (BKJD)



DV Model-Shift Uniqueness Test

008527297-02, P = 0.586664 Days, E = 131.028077 Days

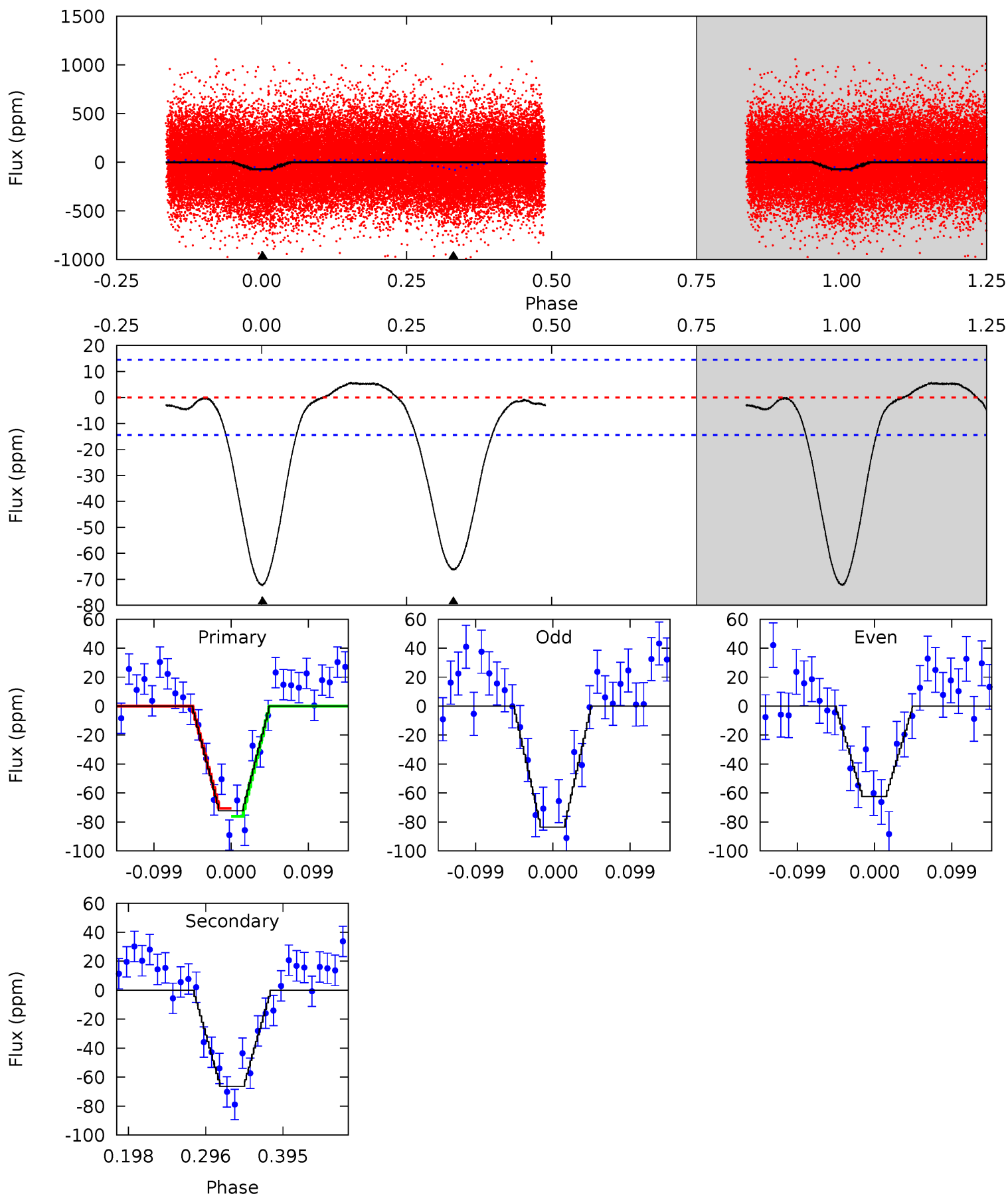
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.5	16.3	0	0	4.55	1.62	1.21	21.5	21.5	16.3	16.3	4.07	0.89	0.09	0.35



Alt Model-Shift Uniqueness Test

008527297-02, P = 0.586664 Days, E = 131.028077 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.8	20.9	0	0	4.57	1.65	1.08	22.8	22.8	20.9	20.9	3.34	0.83	0.07	0.89



Stellar Parameters For KIC 008527297

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6137^{+171}_{-214}	$4.460^{+0.056}_{-0.224}$	$-0.060^{+0.250}_{-0.300}$	$1.018^{+0.341}_{-0.114}$	$1.086^{+0.153}_{-0.153}$	$1.452^{+0.425}_{-0.776}$
	+3%/-3%	+1%/-5%	+417%/-500%	+33%/-11%	+14%/-14%	+29%/-53%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 008527297-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-47 ± 3	$0.97^{+0.32}_{-0.26}$	3279^{+267}_{-168}	5482^{+935}_{-573}	$5.266^{+4.896}_{-2.208}$
Alt.	-66 ± 3	$0.96^{+0.28}_{-0.25}$	3278^{+236}_{-168}	6024^{+1056}_{-679}	$7.719^{+6.368}_{-3.032}$

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 $A_{obs} \gg 1.0$

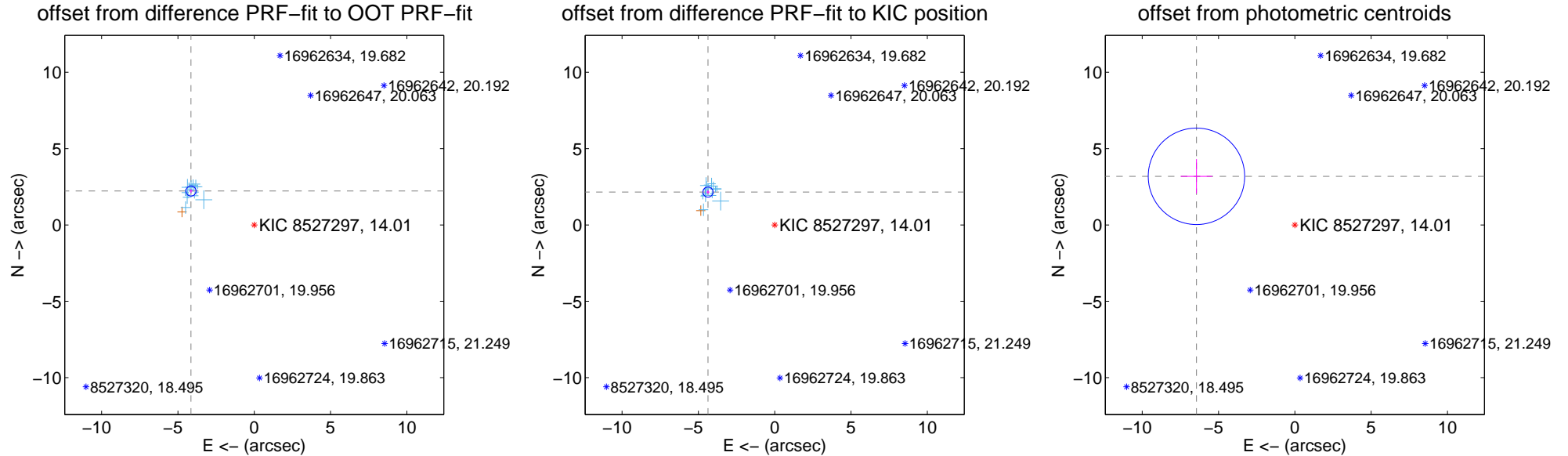
DV Centroid Data

Supplemental centroid analysis for 008527297-02. Kepler magnitude: 14.01. Transit SNR 13.70

There are 15 quarters with good PRF difference image offsets

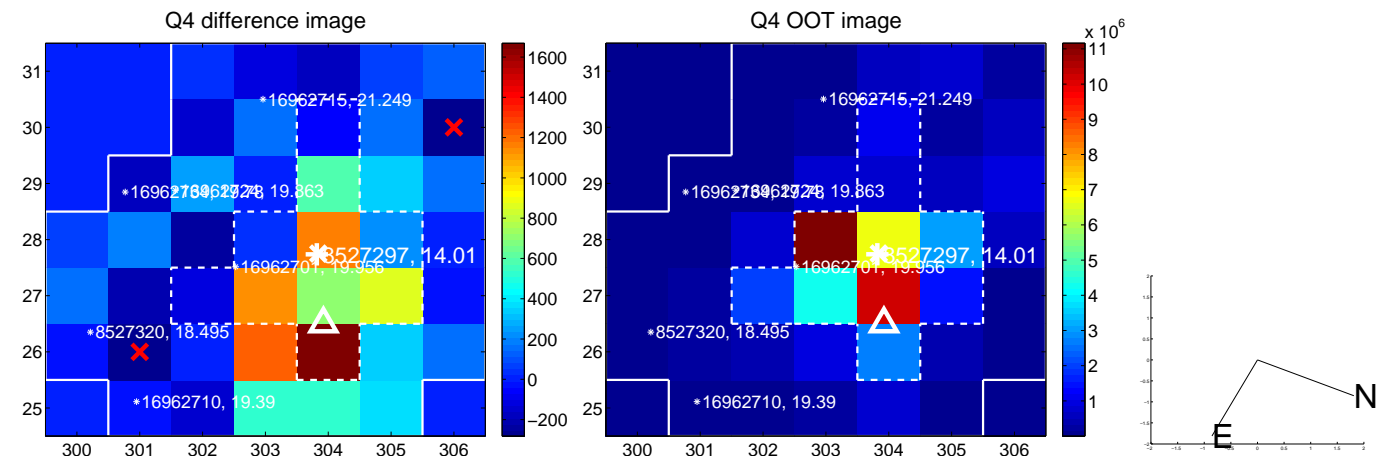
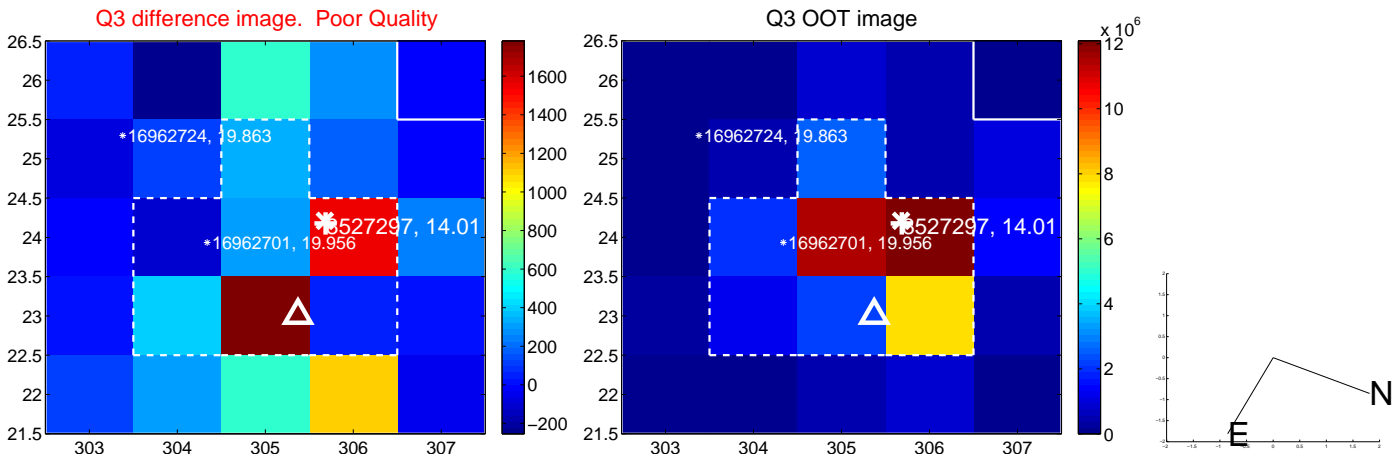
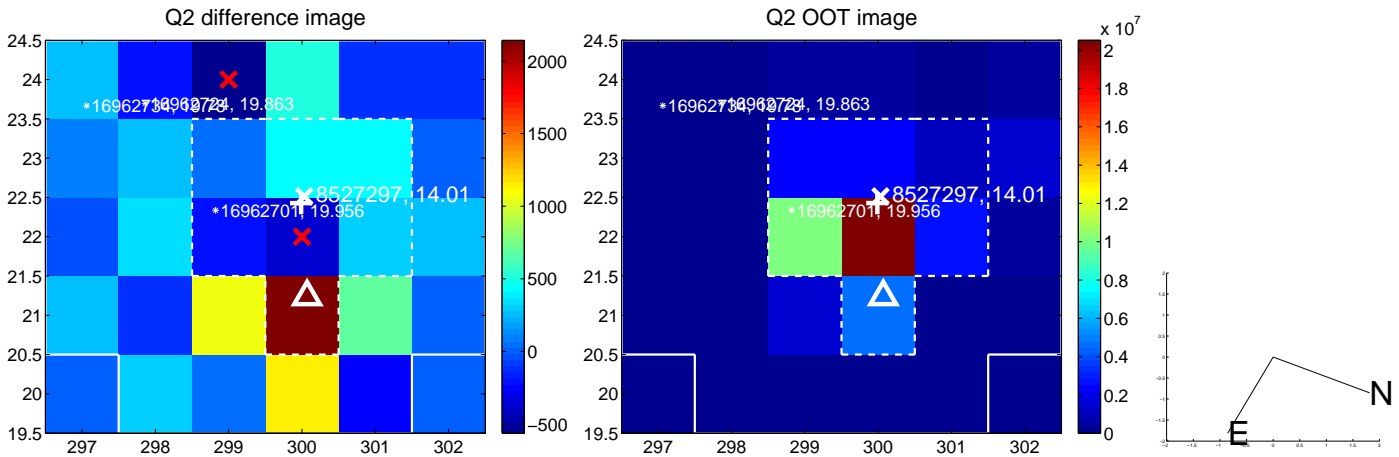
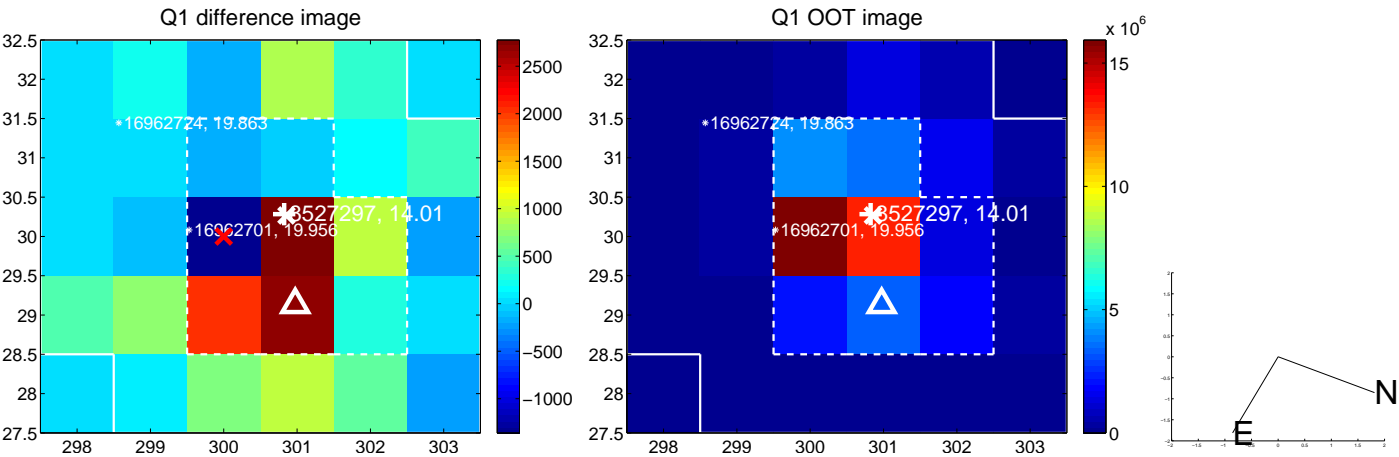
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.702 ± 0.110	42.80	4.144 ± 0.105	2.222 ± 0.126
PRF-fit source offset from KIC position	4.871 ± 0.110	44.26	4.369 ± 0.107	2.153 ± 0.121
photometric centroid source offset	7.19 ± 1.05	6.83	6.45 ± 1.03	3.18 ± 1.12

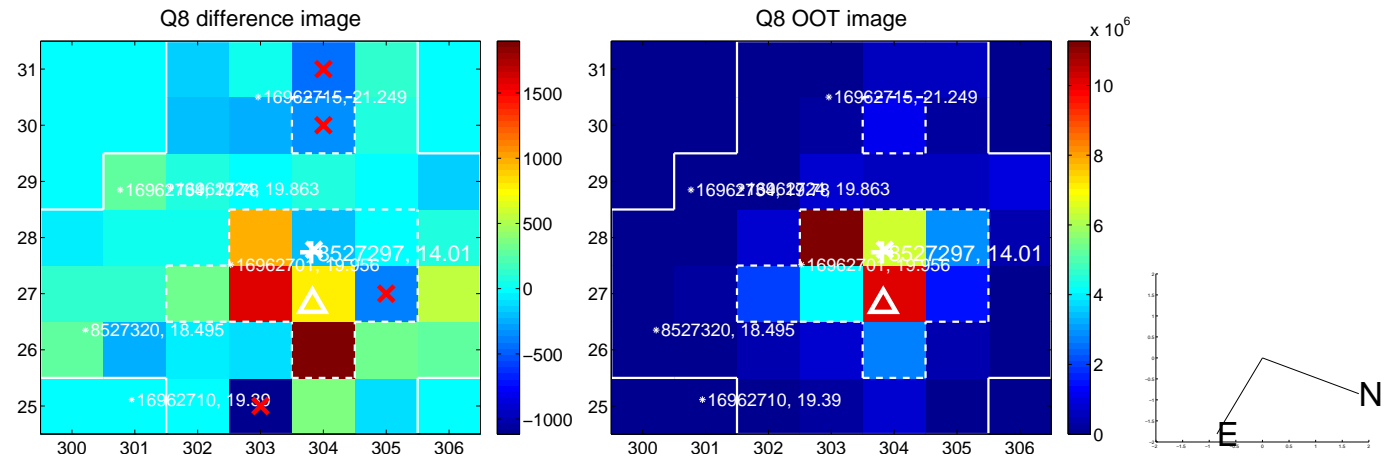
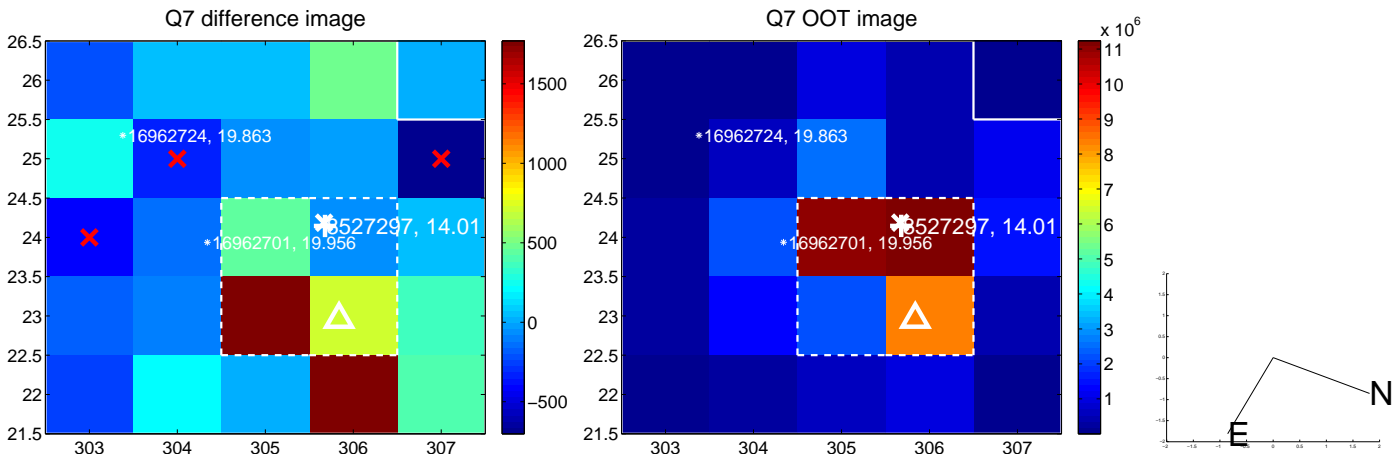
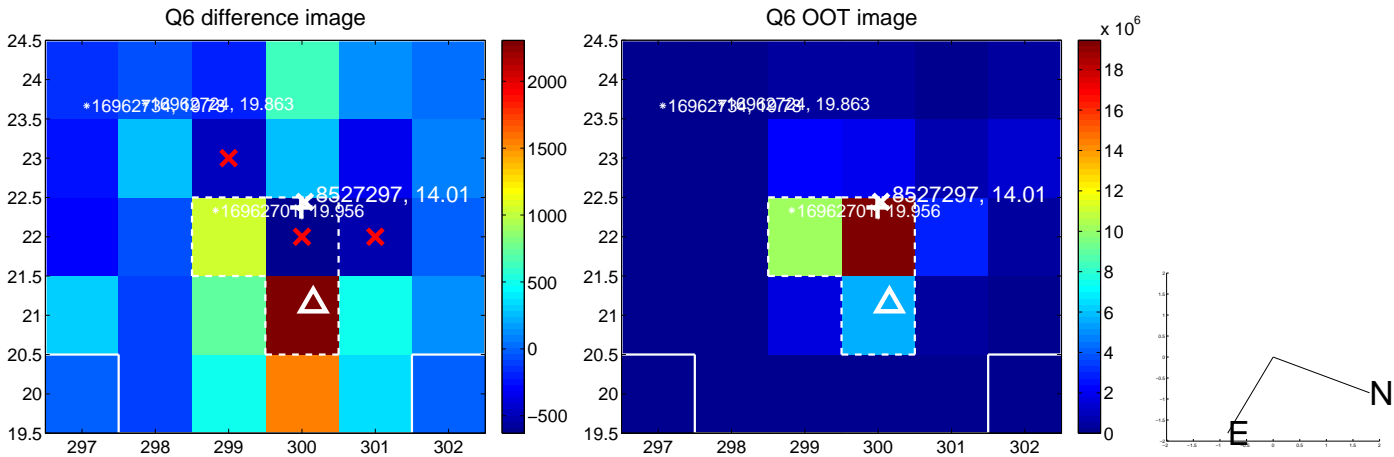
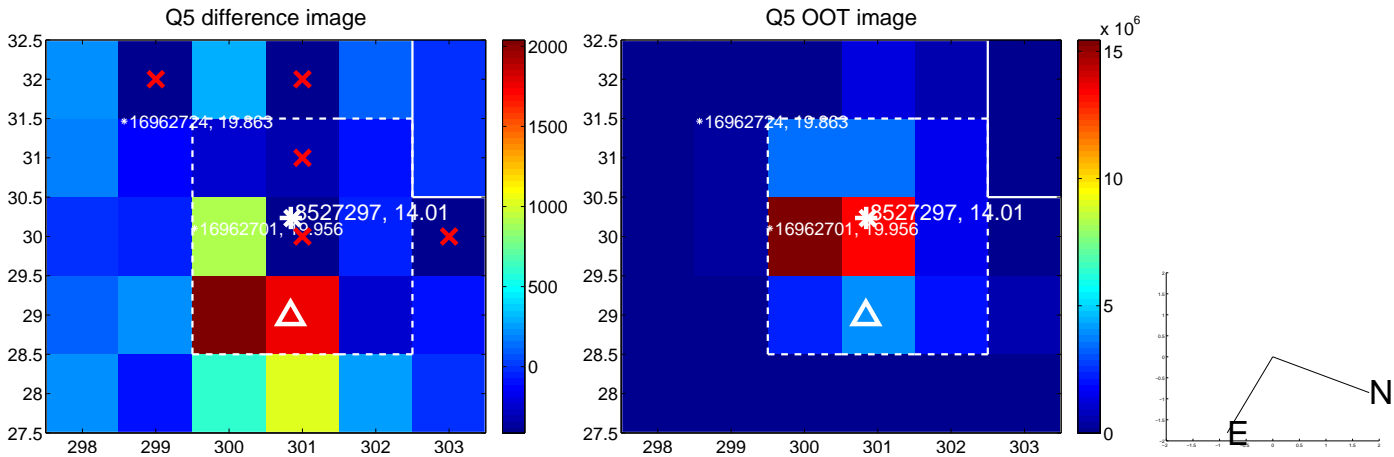


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

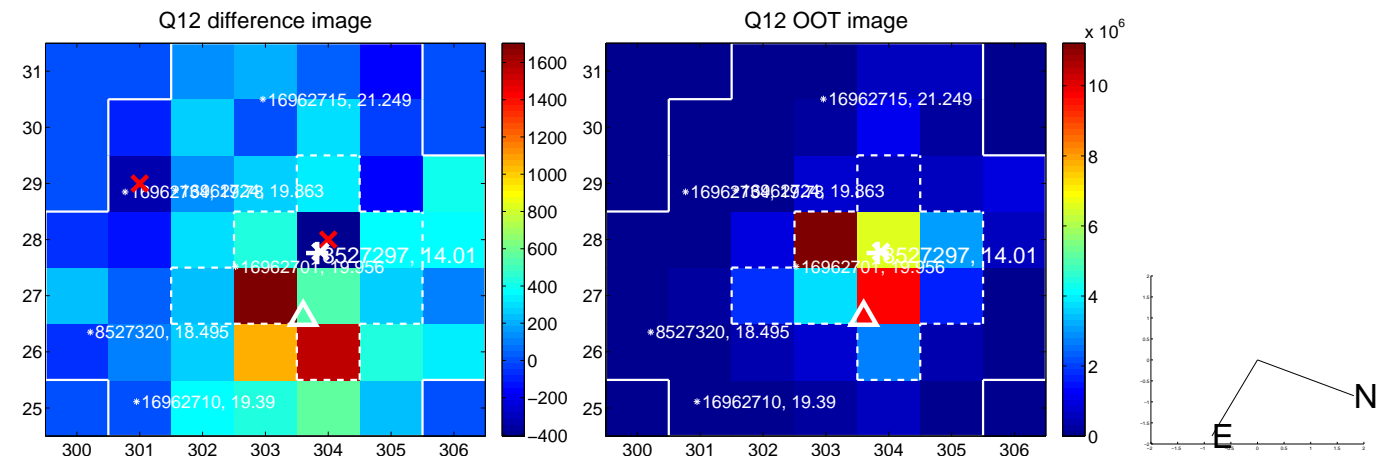
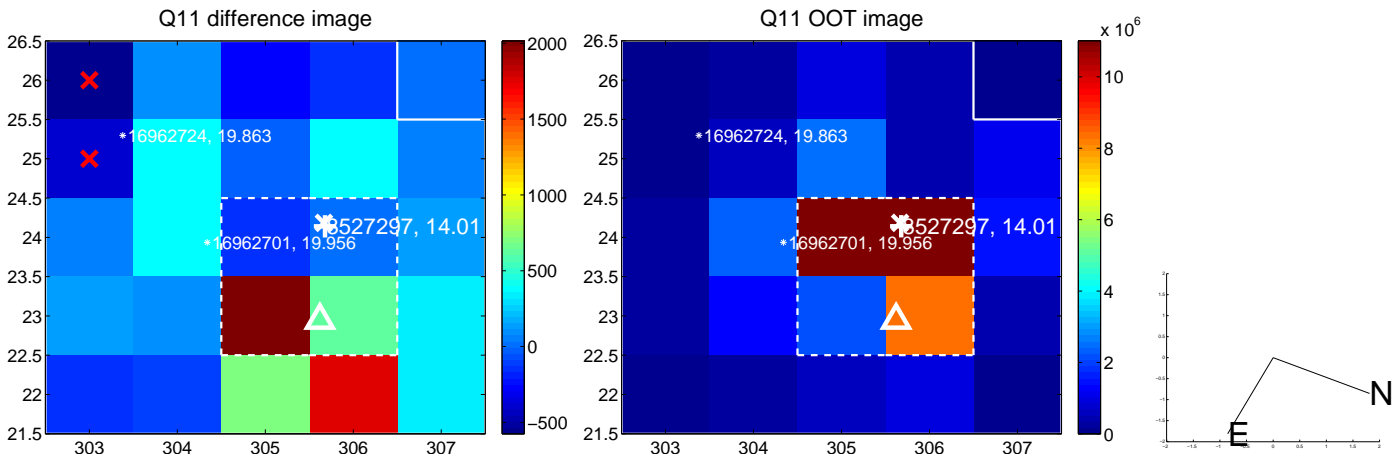
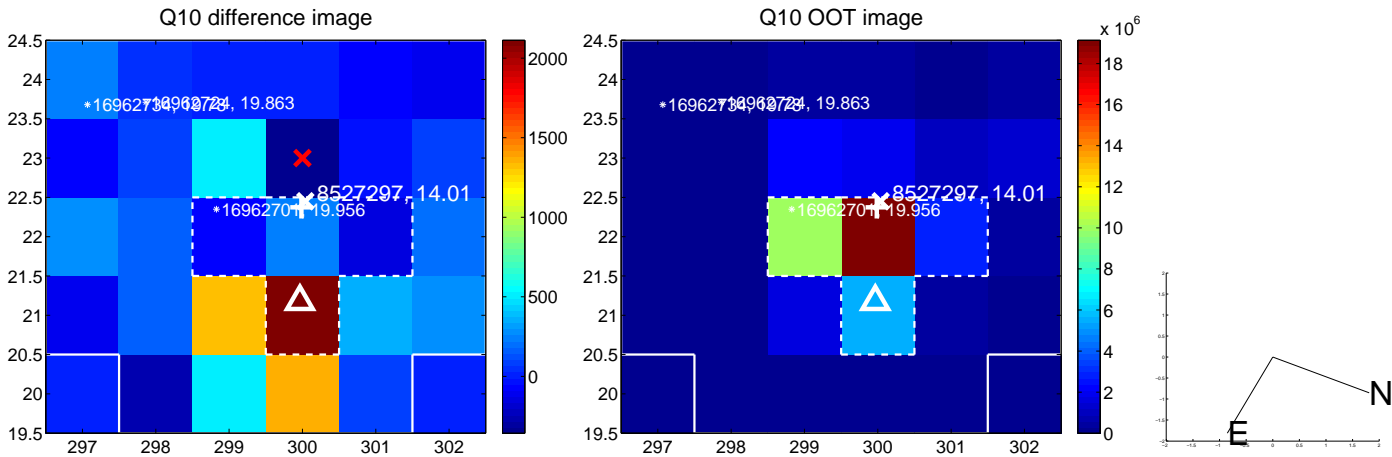
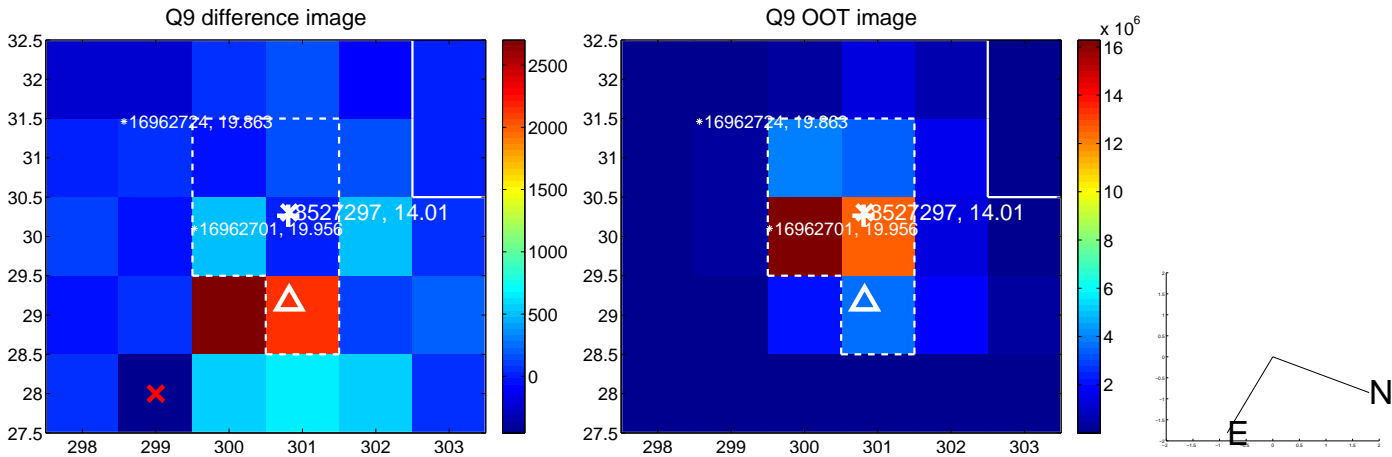
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



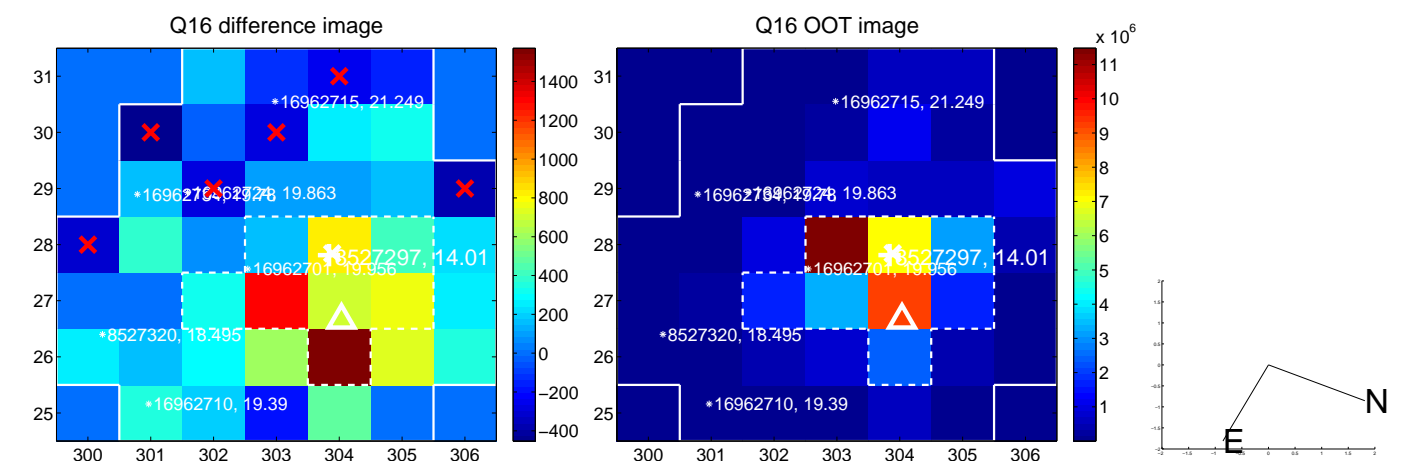
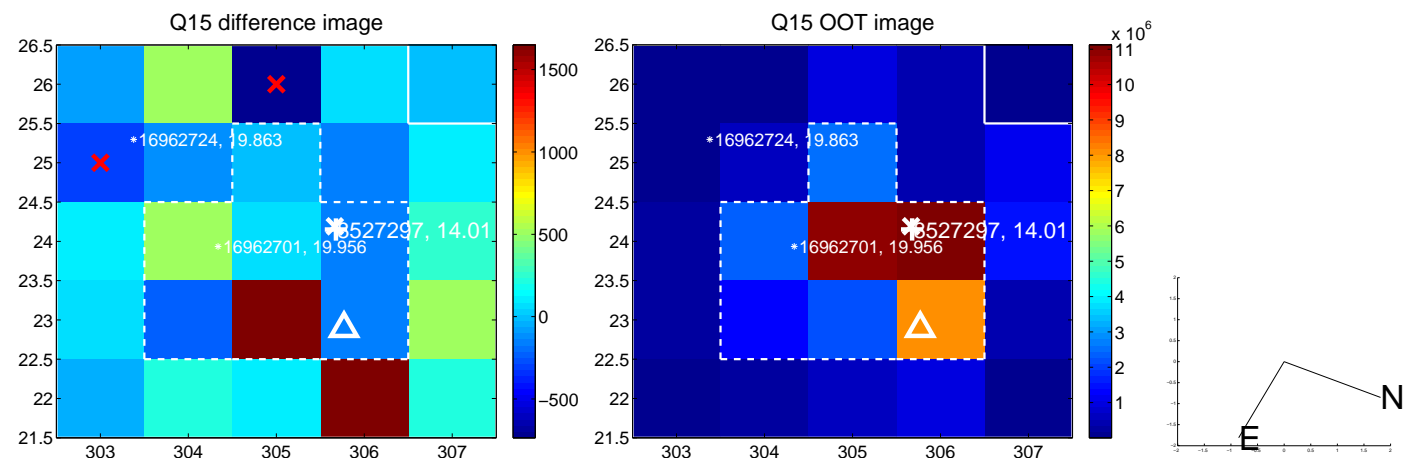
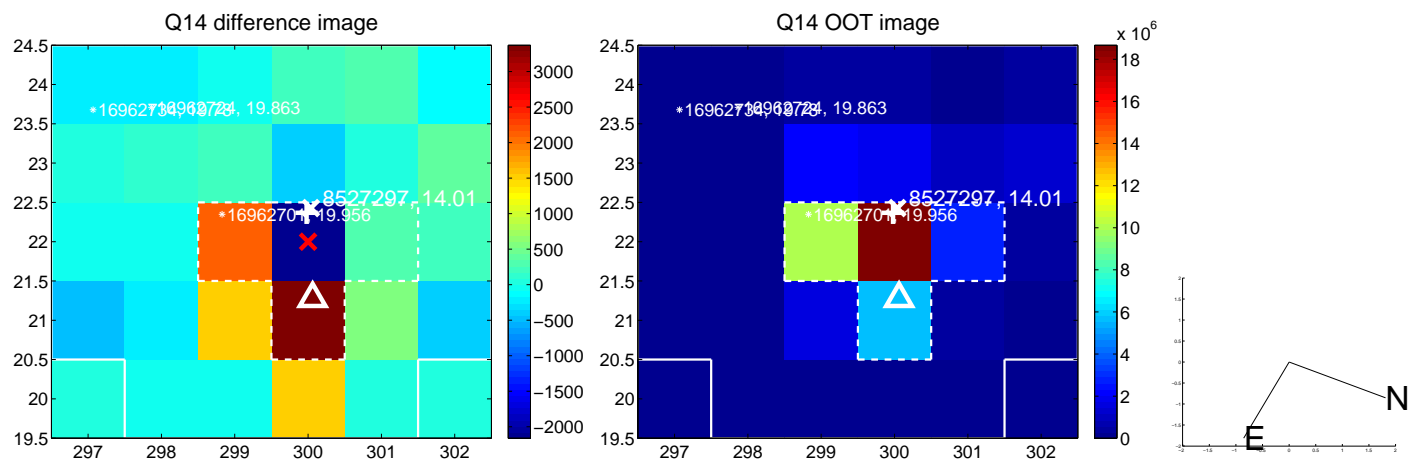
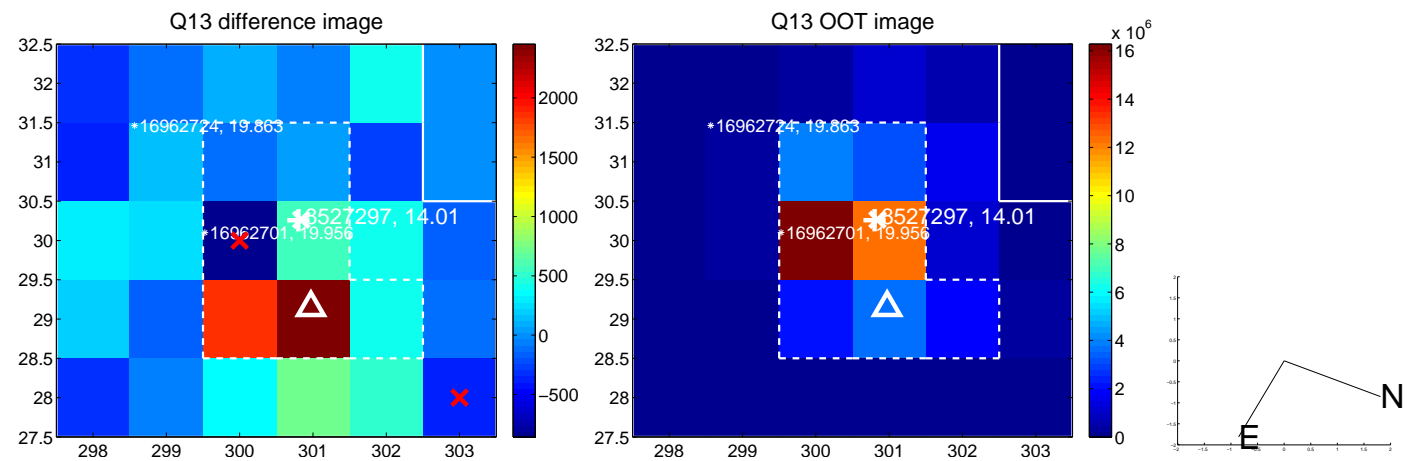
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

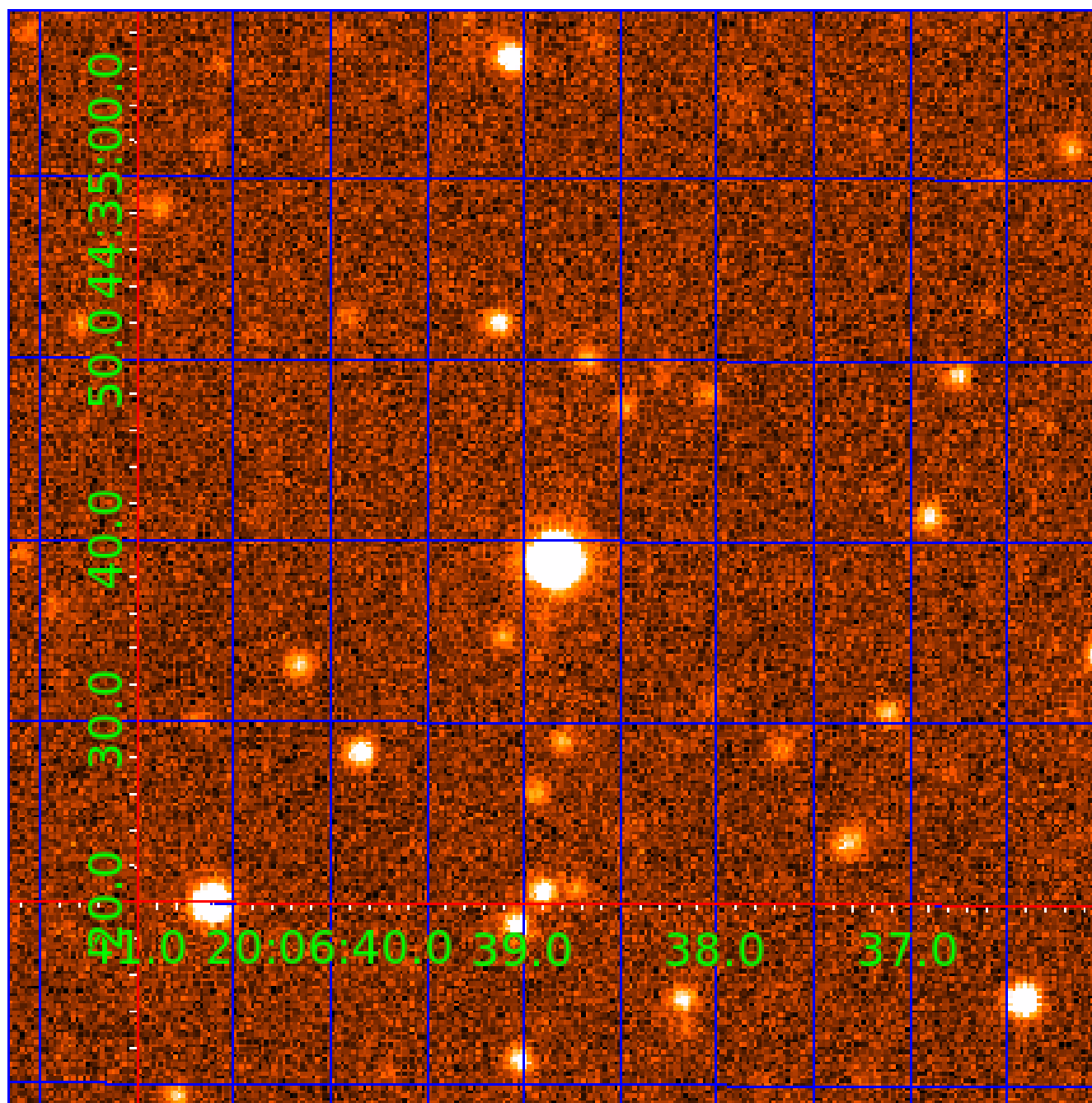


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008527297

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})
008527297-01	OBS	No	0.586662	132.006092	63.3	0.948	10.7	13.8	1.02	6137	0.96	6607.45
008527297-02	OBS	No	0.586664	131.614741	58.9	1.019	10.3	13.7	1.02	6137	0.93	6607.42
008527297-03	OBS	8157.01	0.587300	132.350232	38.3	0.824	9.2	4.8	1.02	6137	0.64	6597.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008527297-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
008527297-02	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_RESOLVED_OFFSET
008527297-03	OBS	PC	0.64	0	0	0	0	NO_COMMENT

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

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

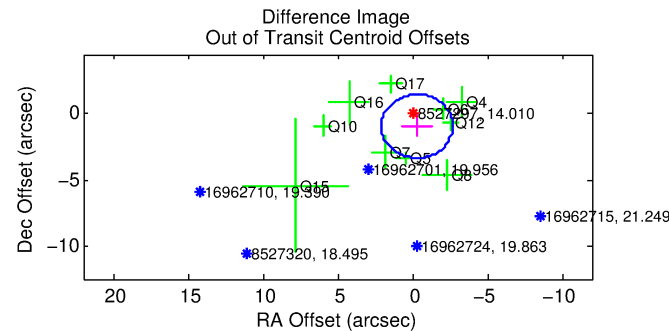
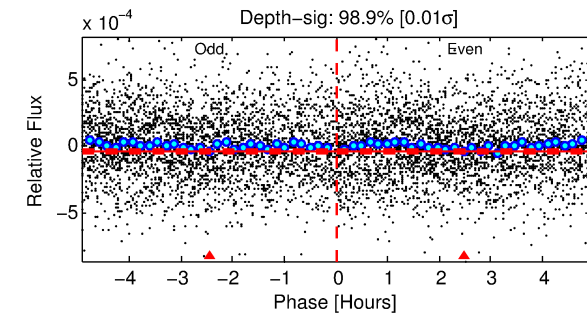
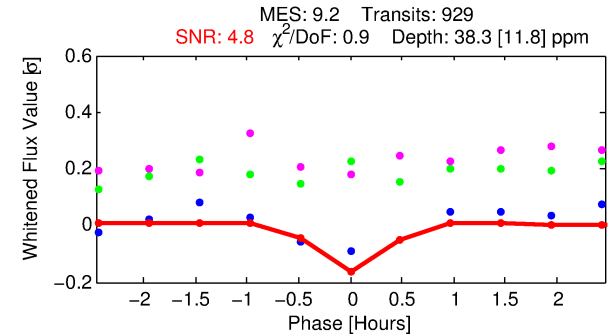
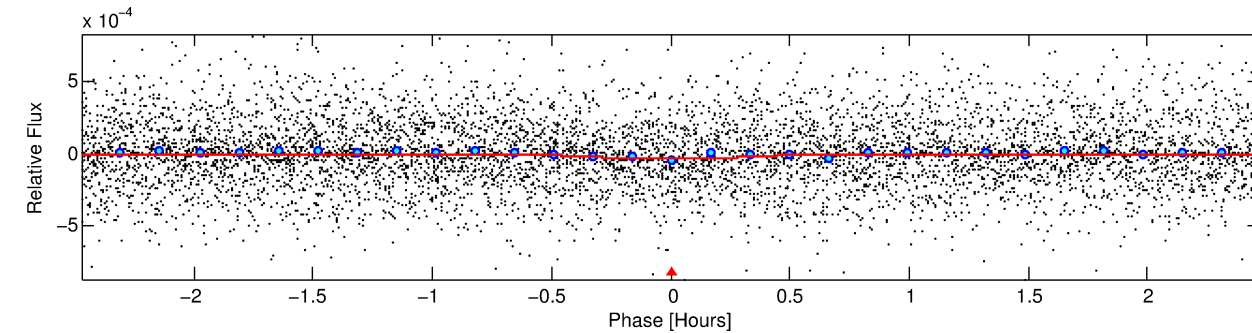
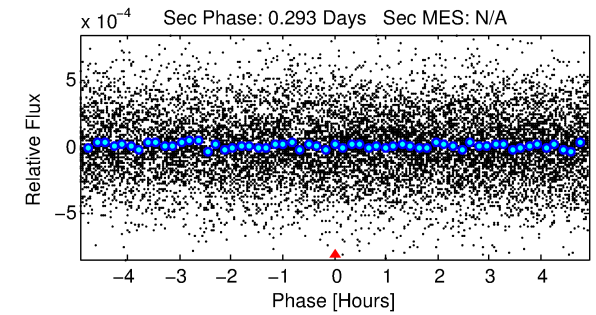
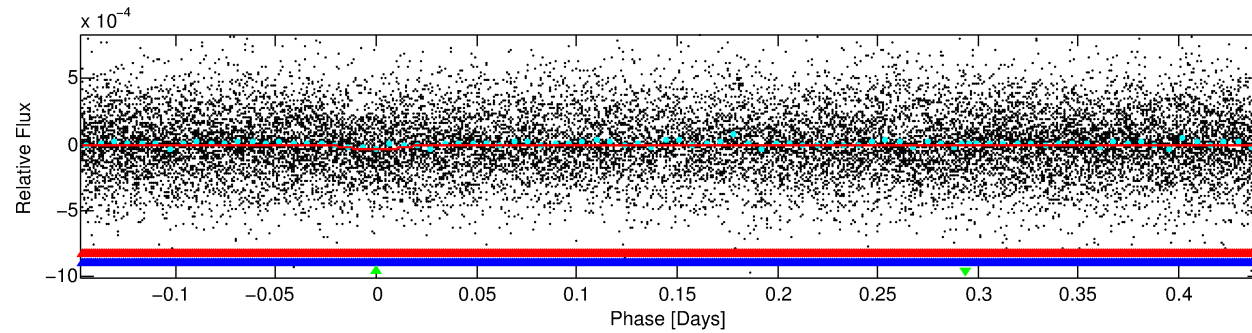
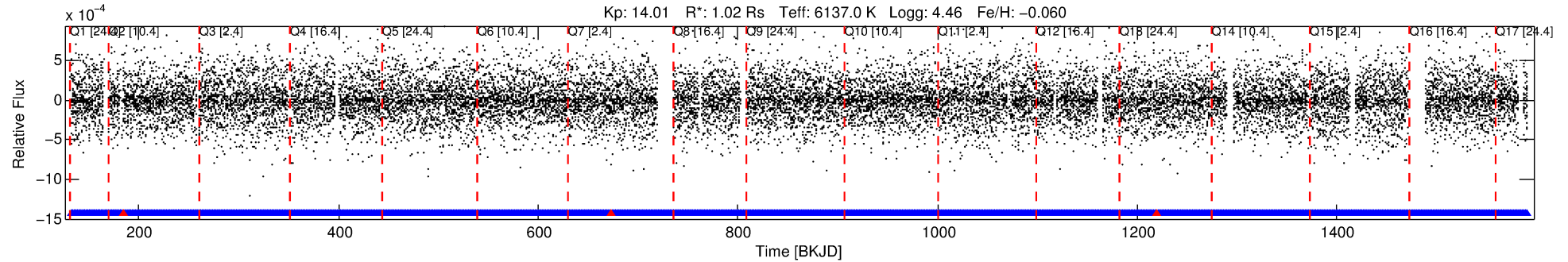
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008527297-03

No Significant Match Found

DV One-Page Summary

KIC: 8527297 Candidate: 3 of 3 Period: 0.587 d



DV Fit Results:

Period = 0.58730 [0.00003] d
Epoch = 132.3502 [0.0036] BKJD
Rp/R* = 0.0058 [0.0082]
a/R* = 5.27 [35.00]
b = 0.30 [20.96]
Seff = 6597.87 [2857.41]
Teq = 2298 [249] K
Rp = 0.64 [0.93] Re
a = 0.0141 [0.0040] AU

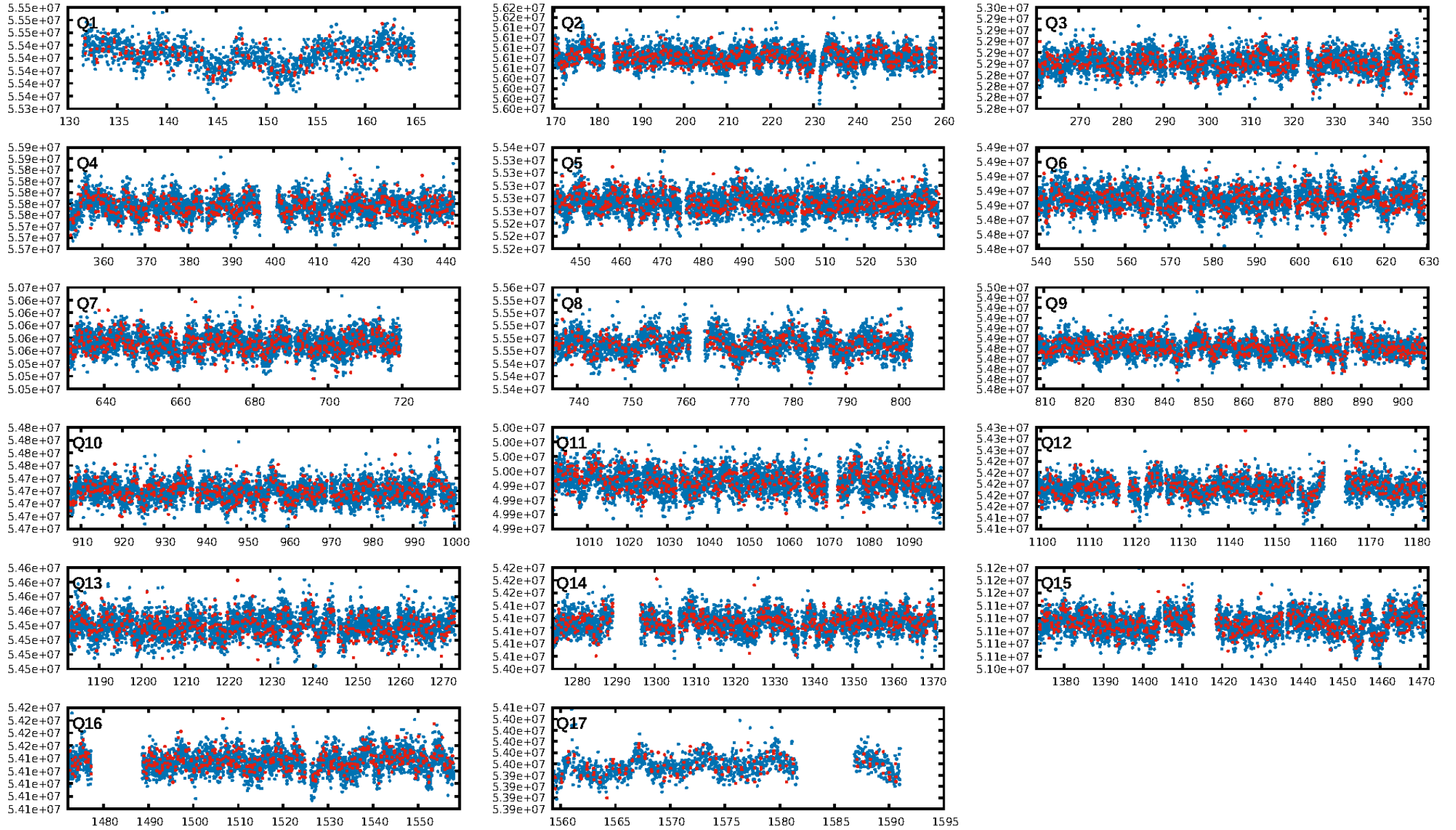
DV Diagnostic Results:

ShortPeriod-sig: 0.9% [0.01σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 8.28e-17
RollingBand-fgt: 1.00 [869/872]
GhostDiagnostic-chr: 0.9932
Centroid-sig: 9.2%
Centroid-so: 2.241 arcsec [1.18σ]
OotOffset-rm: 0.985 arcsec [1.23σ]
KicOffset-rm: 1.037 arcsec [1.31σ]
OotOffset-st: 2/2/4/2 [10]
KicOffset-st: 2/2/4/2 [10]
DiffImageQuality-fgm: 0.10 [1/10]
DiffImageOverlap-fno: 0.00 [0/17]

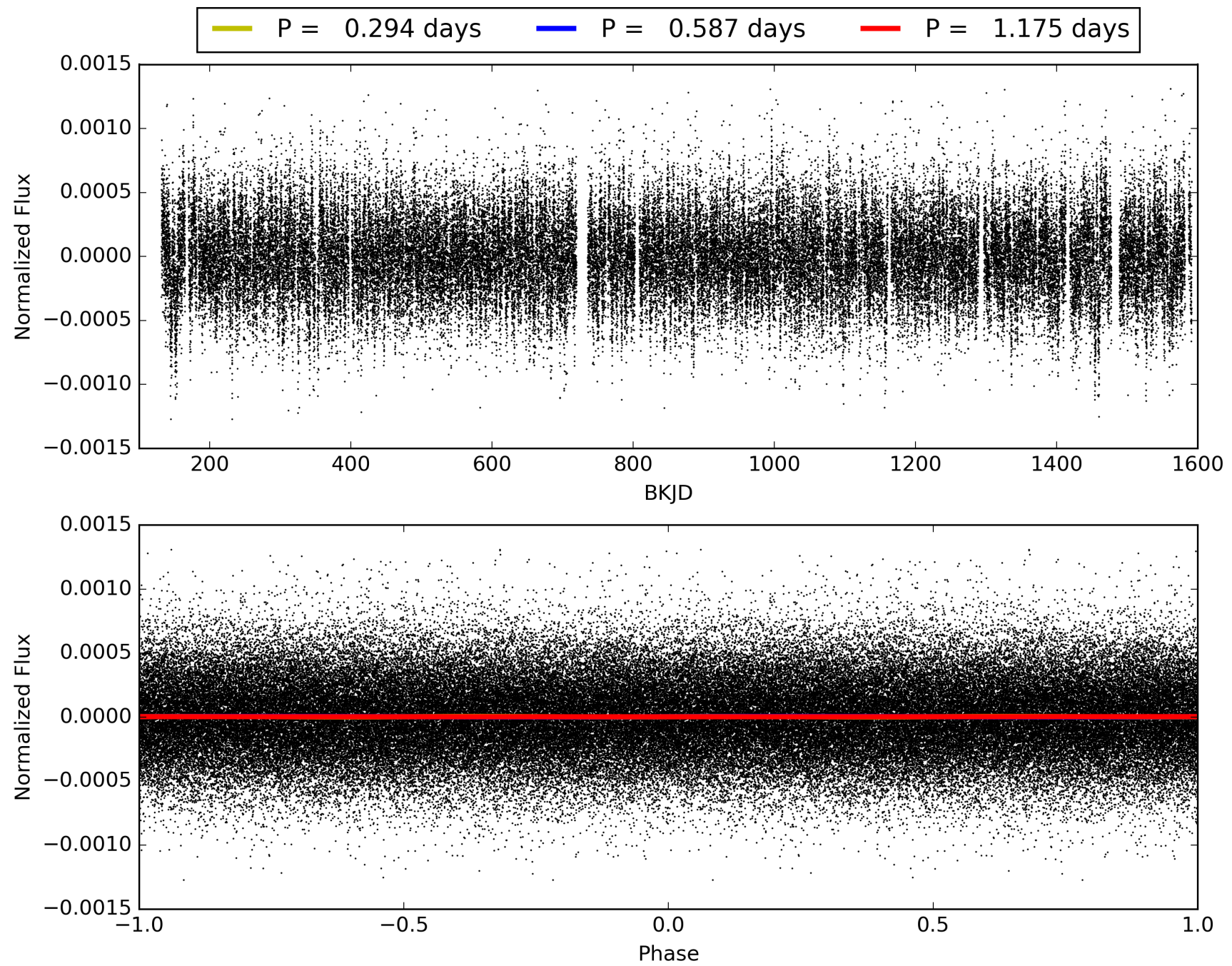
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 22:55:22 Z

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

TCE 008527297-03, PDC Light Curves

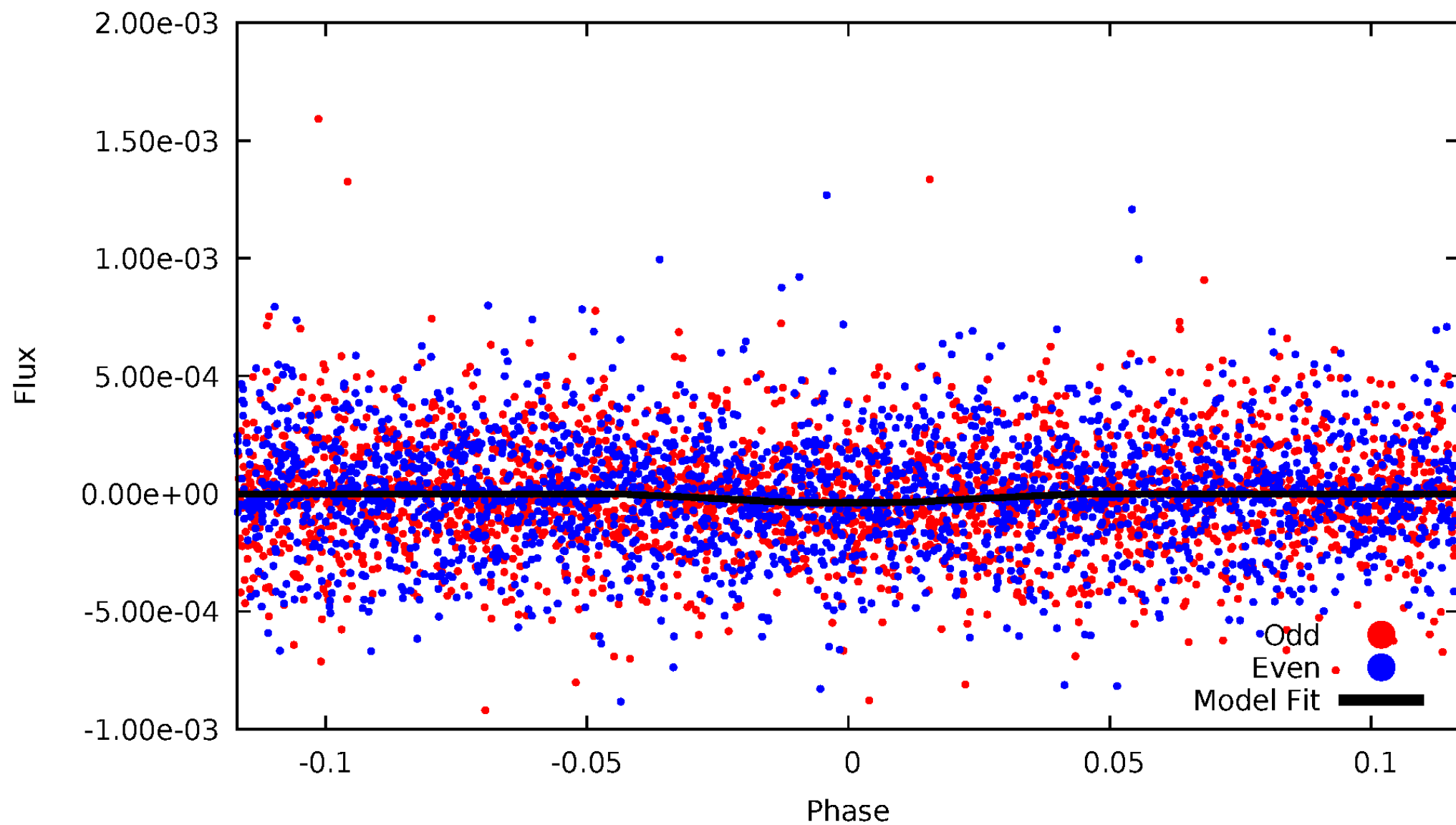


TCE 008527297-03



DV Odd/Even

TCE 008527297-03

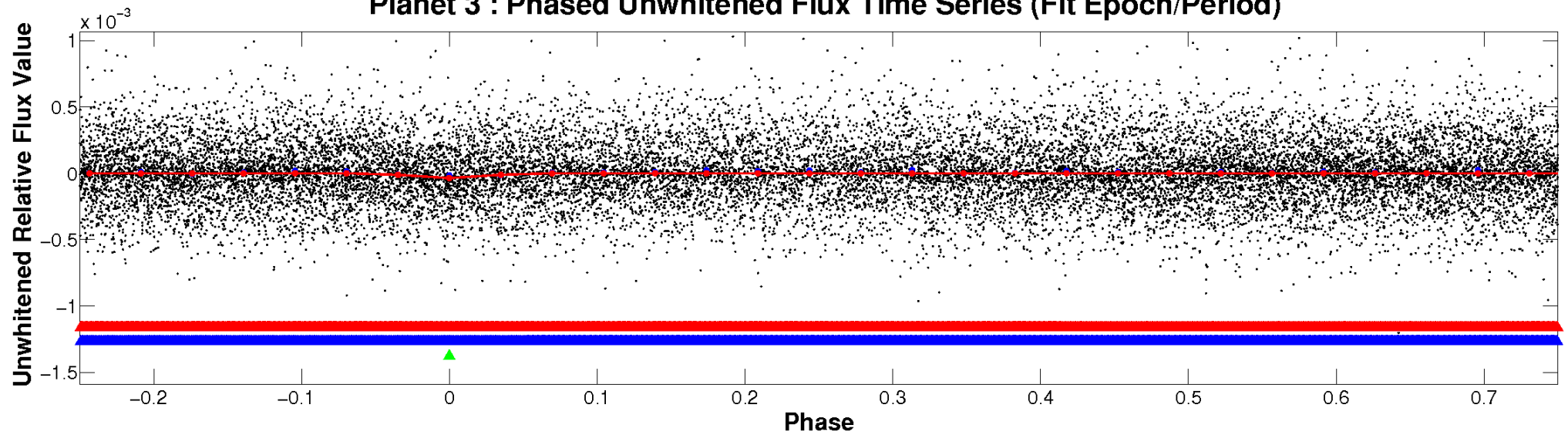


ALT Odd/Even

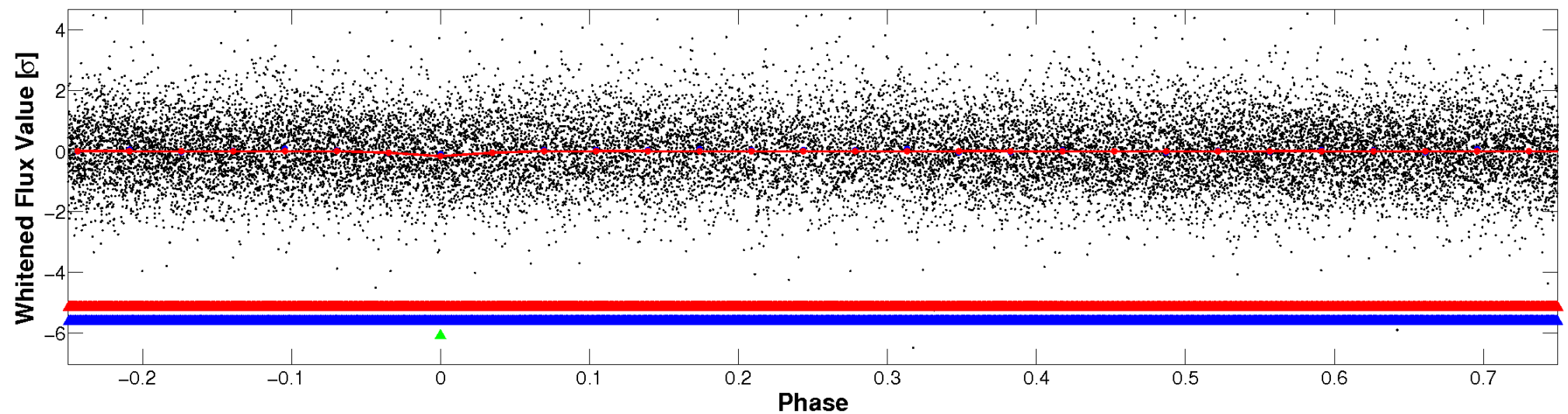
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

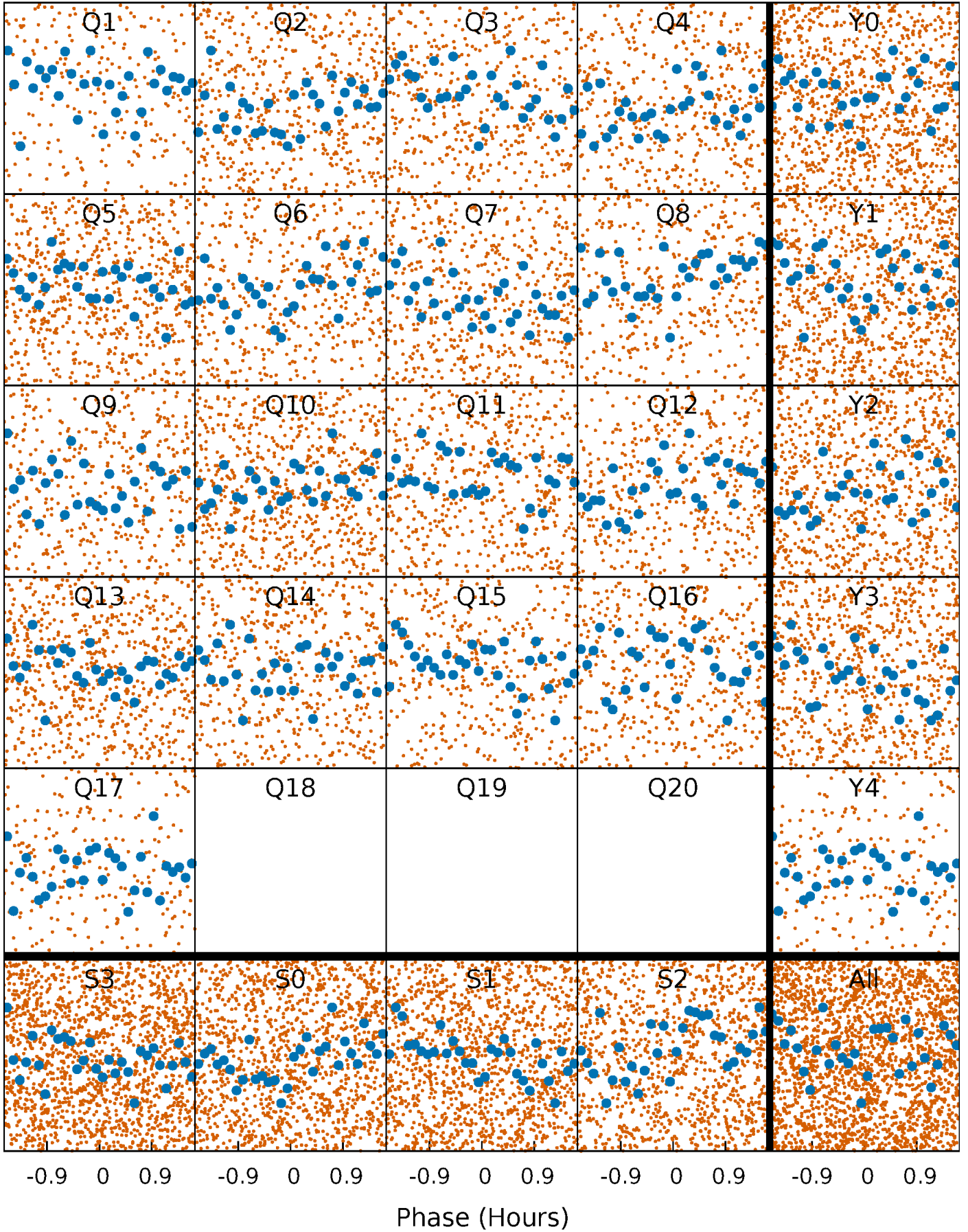


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



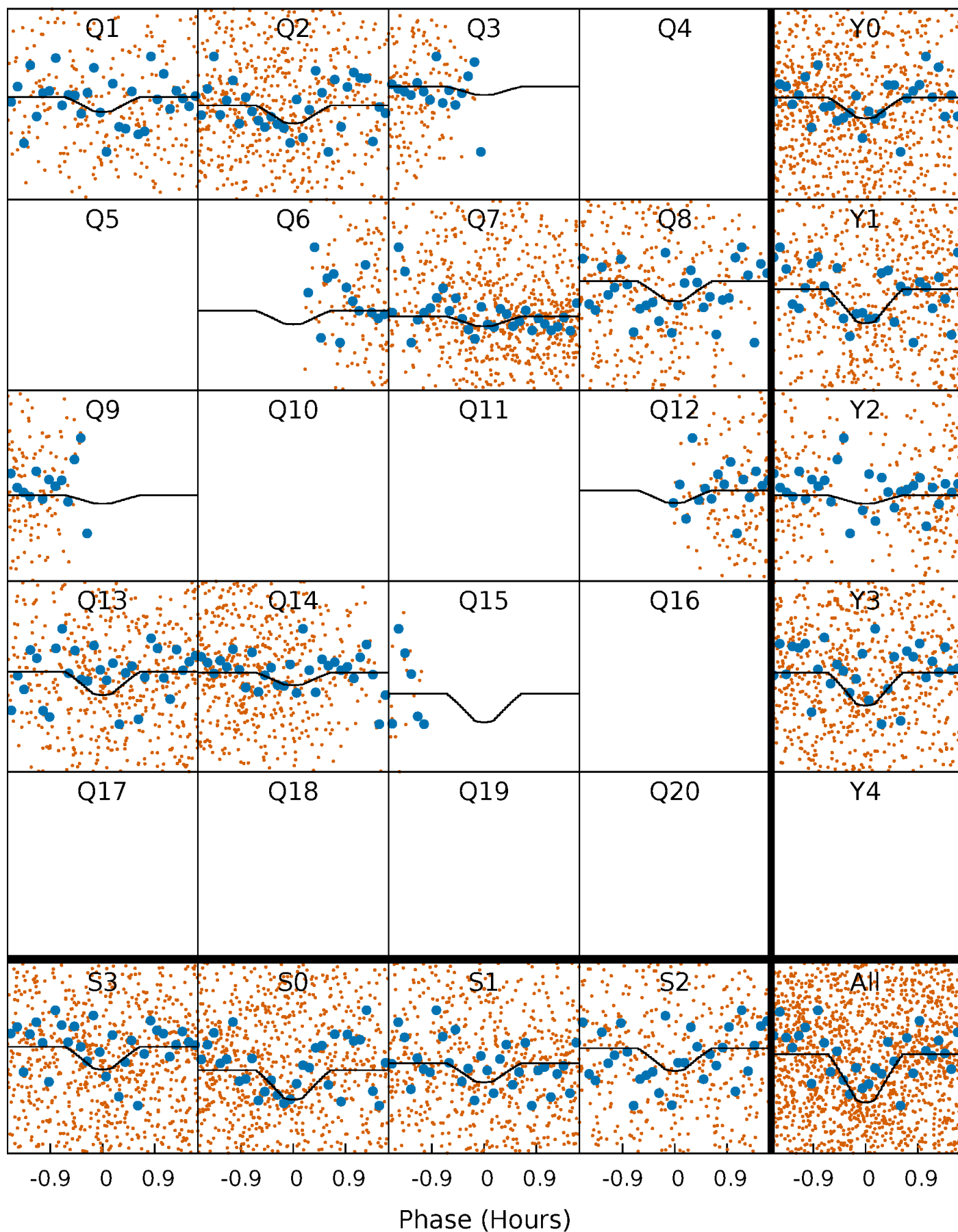
PDC Quarter-Phased Transit Curves

TCE 008527297-03 $P = 0.587300$ Days $T_0 = 132.350233$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008527297-03 P= 0.587300 Days $T_0=132.350233$ (BKJD)

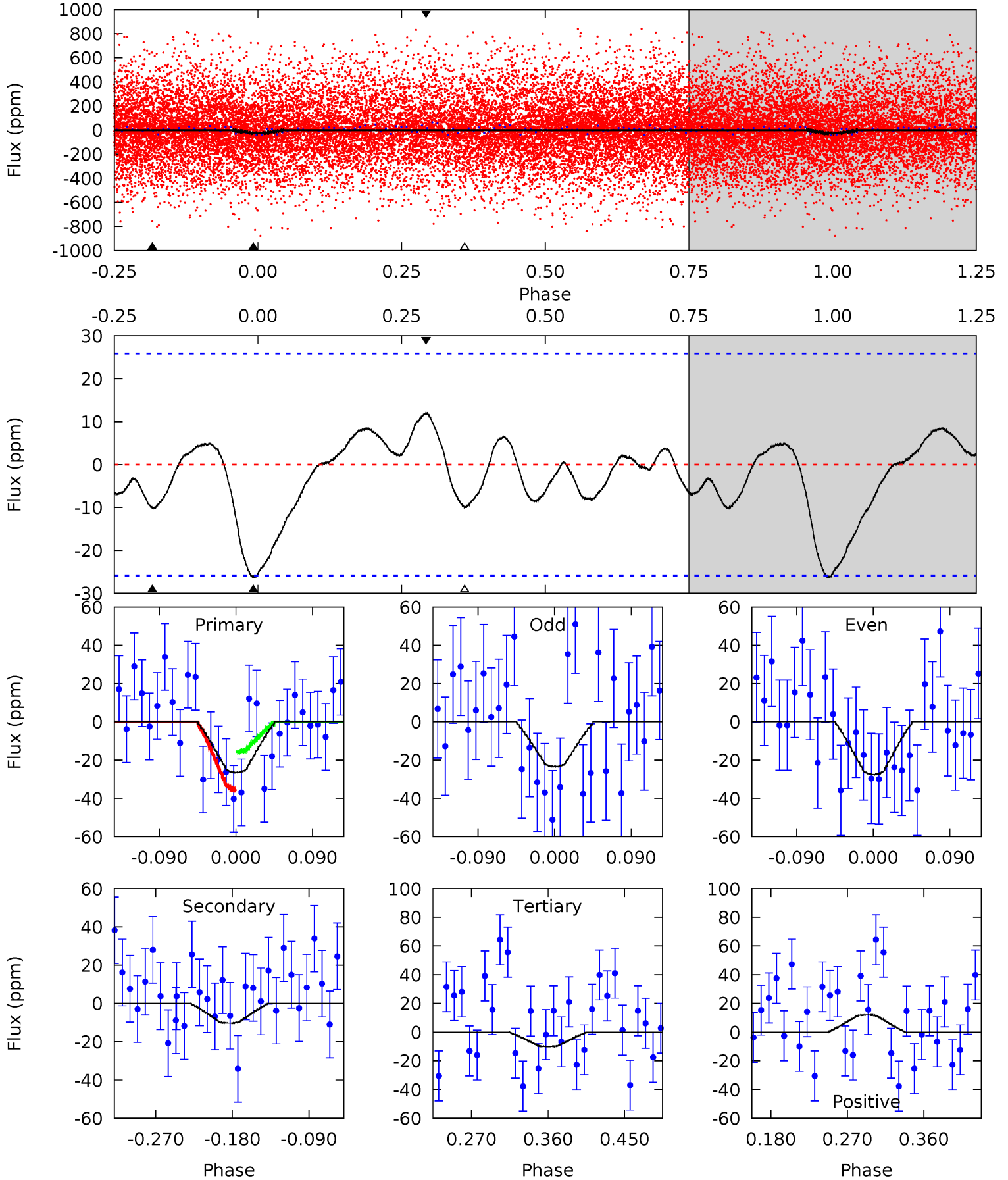


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

008527297-03, P = 0.587300 Days, E = 131.175633 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.69	1.82	1.80	2.15	4.59	1.70	0.95	2.89	2.54	0.03	-0.32	0.36	0.75	0.31	1.75



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 008527297

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6137^{+171}_{-214}	$4.460^{+0.056}_{-0.224}$	$-0.060^{+0.250}_{-0.300}$	$1.018^{+0.341}_{-0.114}$	$1.086^{+0.153}_{-0.153}$	$1.452^{+0.425}_{-0.776}$
	+3%/-3%	+1%/-5%	+417%/-500%	+33%/-11%	+14%/-14%	+29%/-53%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 008527297-03 / KOI 8157.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-10 ± 6	$0.98^{+0.86}_{-0.67}$	3288^{+253}_{-174}	3747^{+2708}_{-6521}	$1.012^{+8.812}_{-0.805}$
Alt.	N/A	N/A	N/A	N/A	N/A

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 $A_{obs} \gg 1.0$

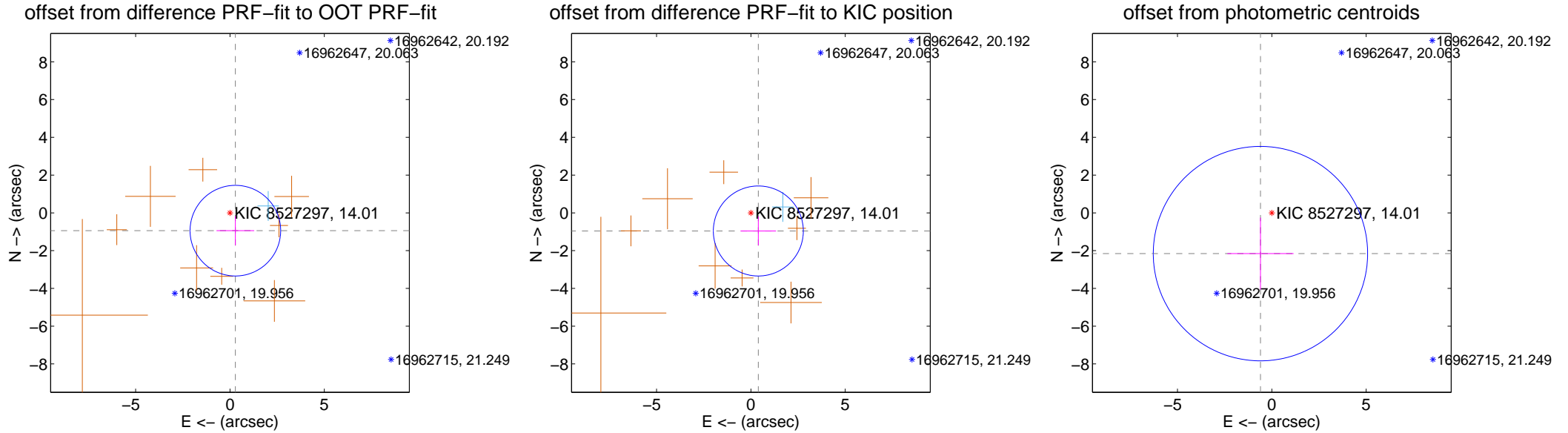
DV Centroid Data

Supplemental centroid analysis for 008527297-03. Kepler magnitude: 14.01. Transit SNR 4.83

There are 1 quarters with good PRF difference image offsets

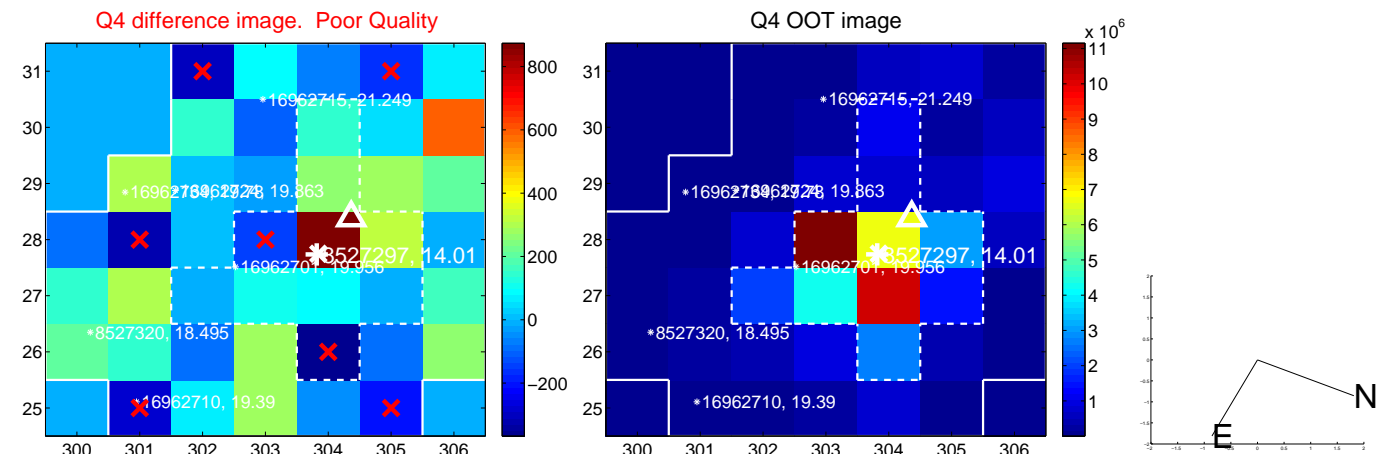
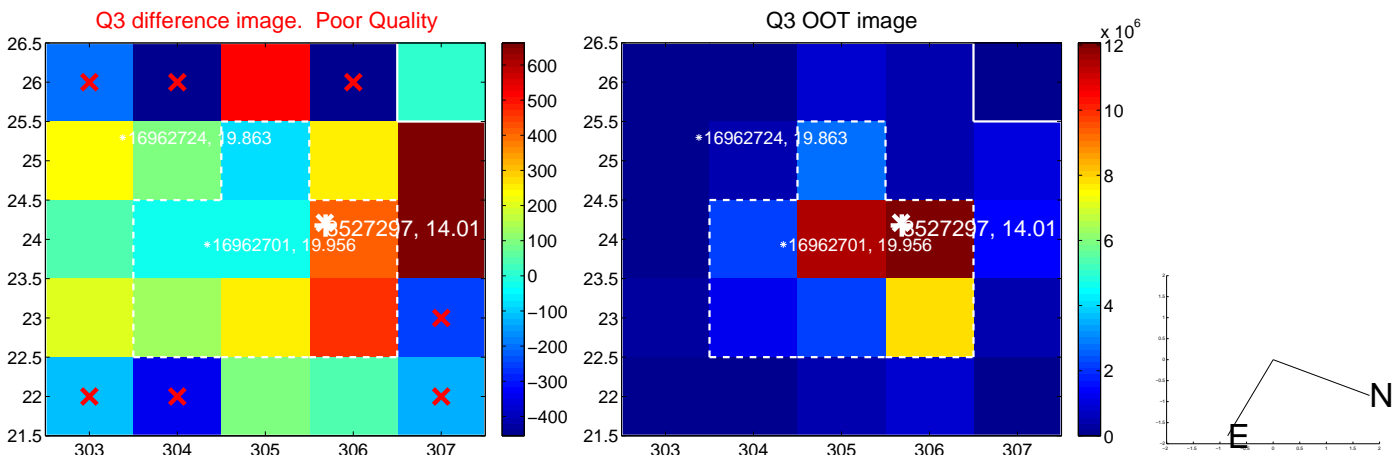
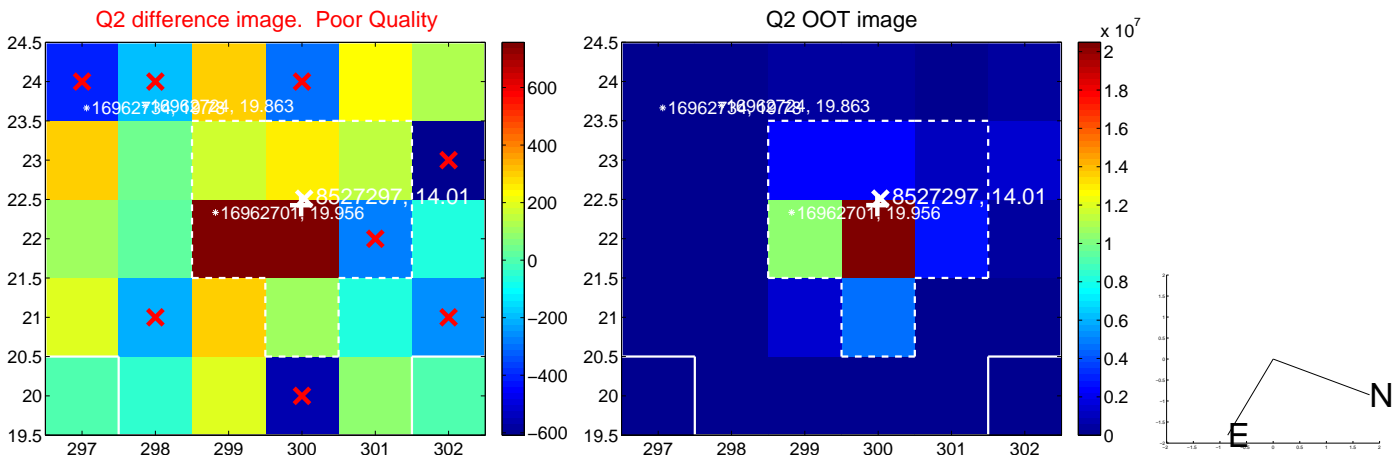
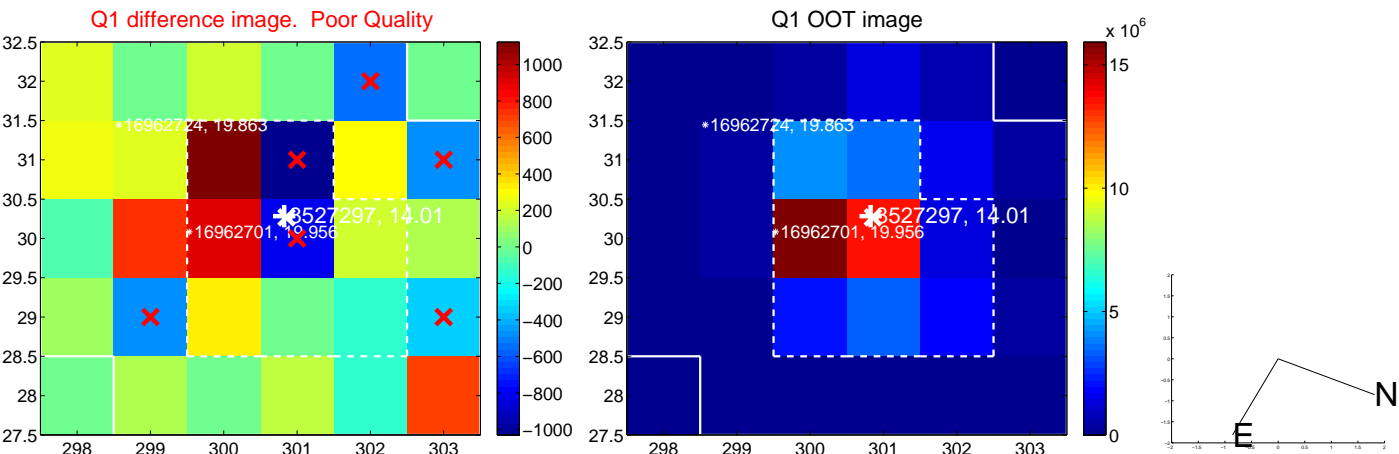
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.985 ± 0.800	1.23	-0.286 ± 1.000	-0.943 ± 0.779
PRF-fit source offset from KIC position	1.037 ± 0.795	1.31	-0.394 ± 0.939	-0.959 ± 0.768
photometric centroid source offset	2.24 ± 1.89	1.18	0.60 ± 1.75	-2.16 ± 1.90

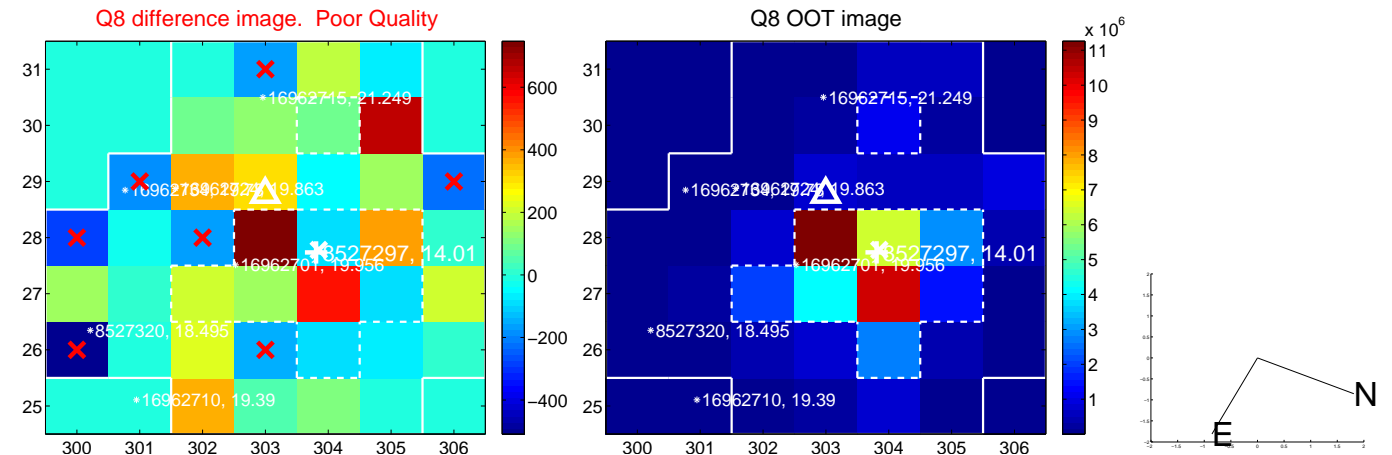
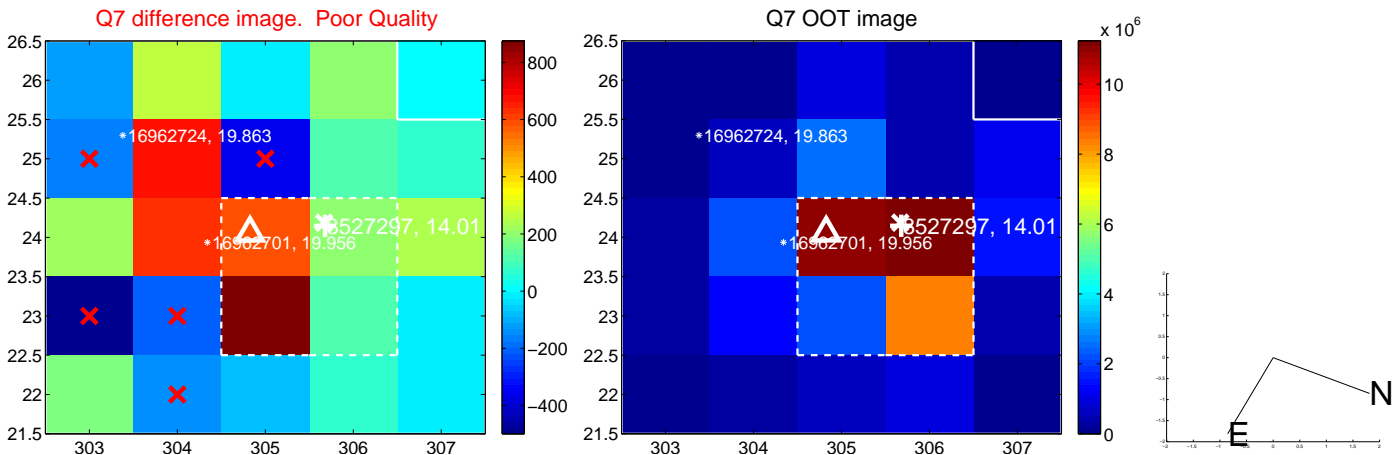
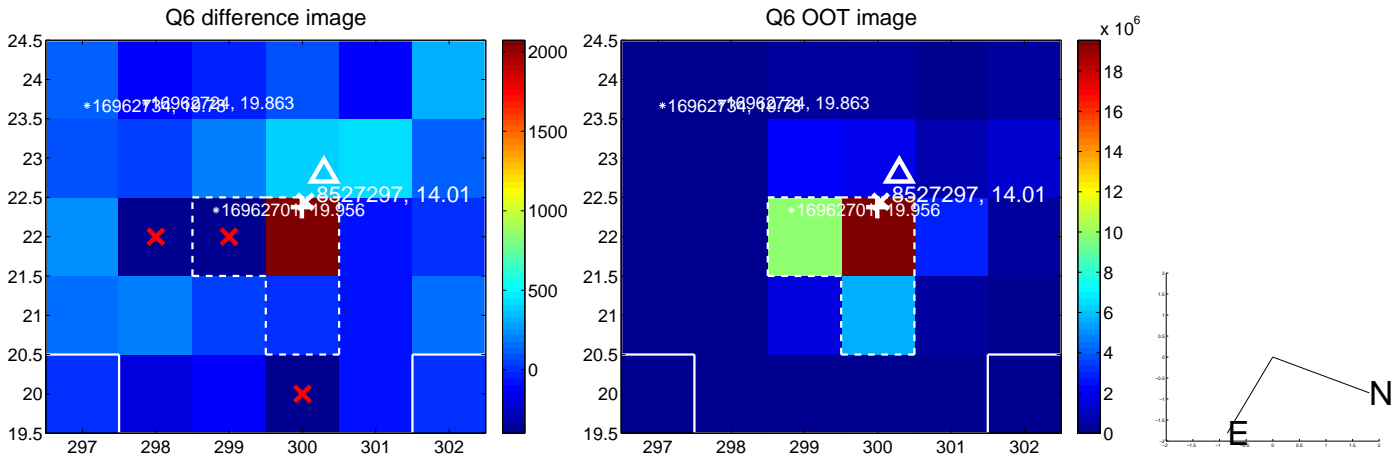
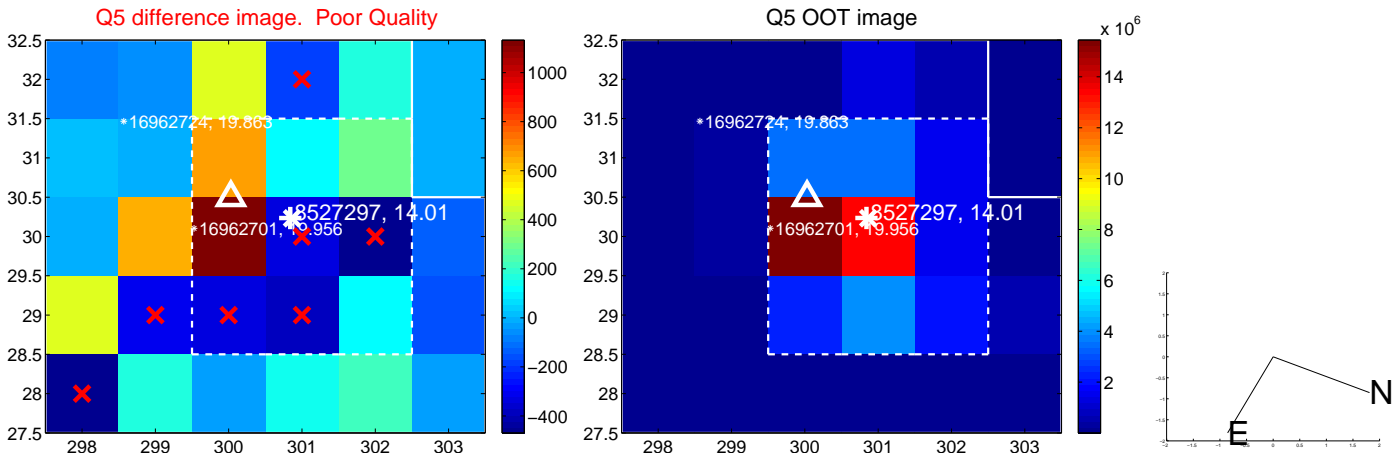


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

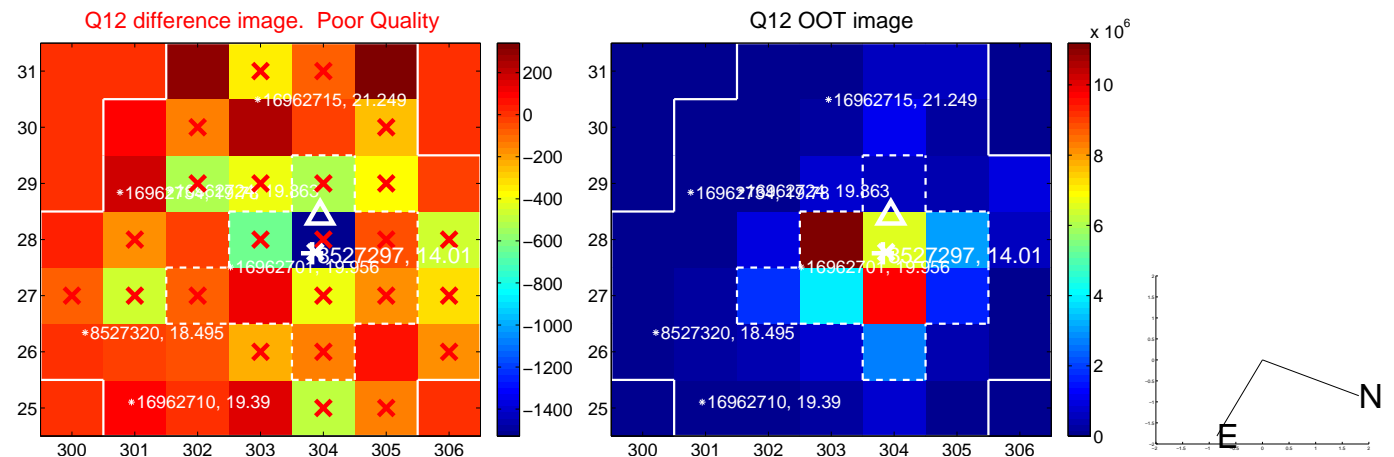
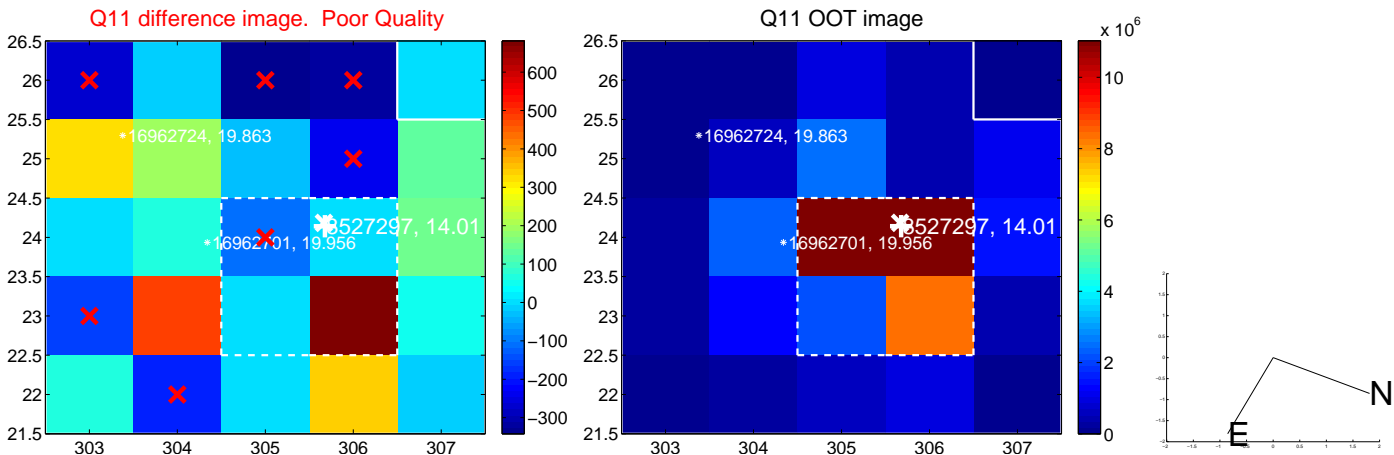
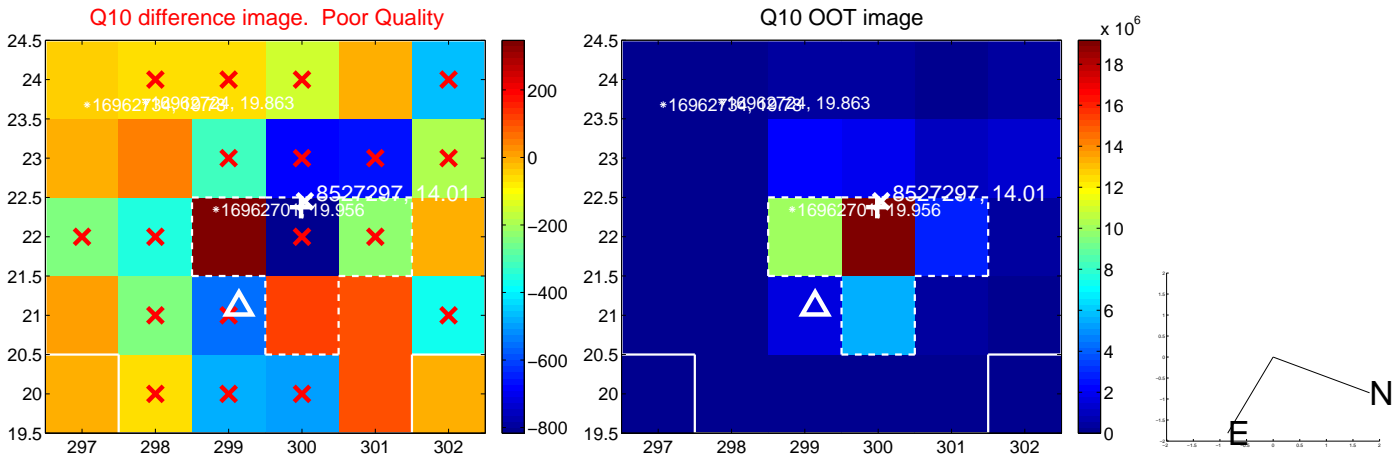
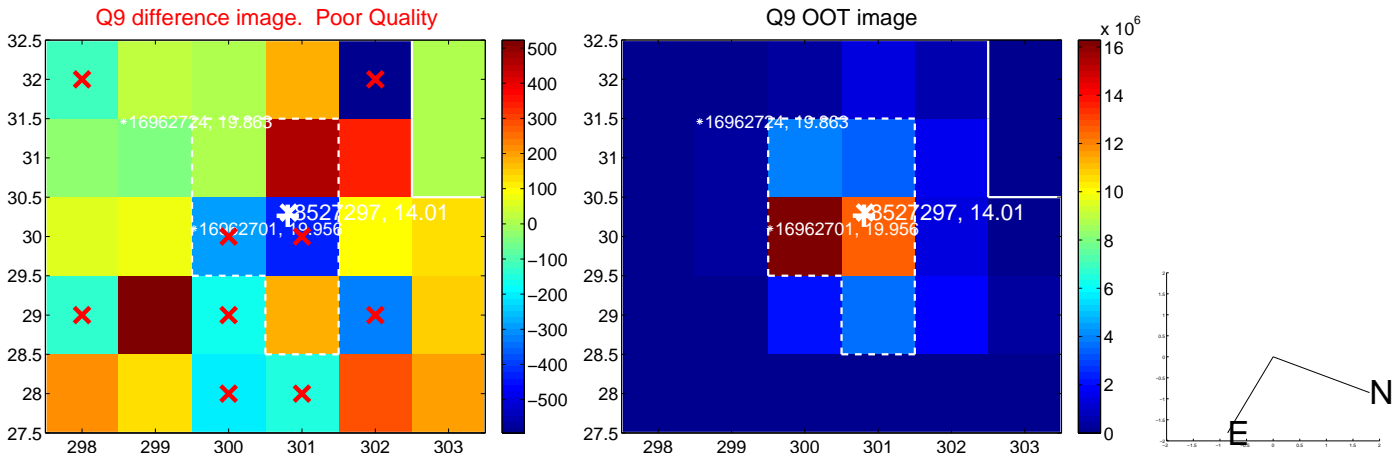
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



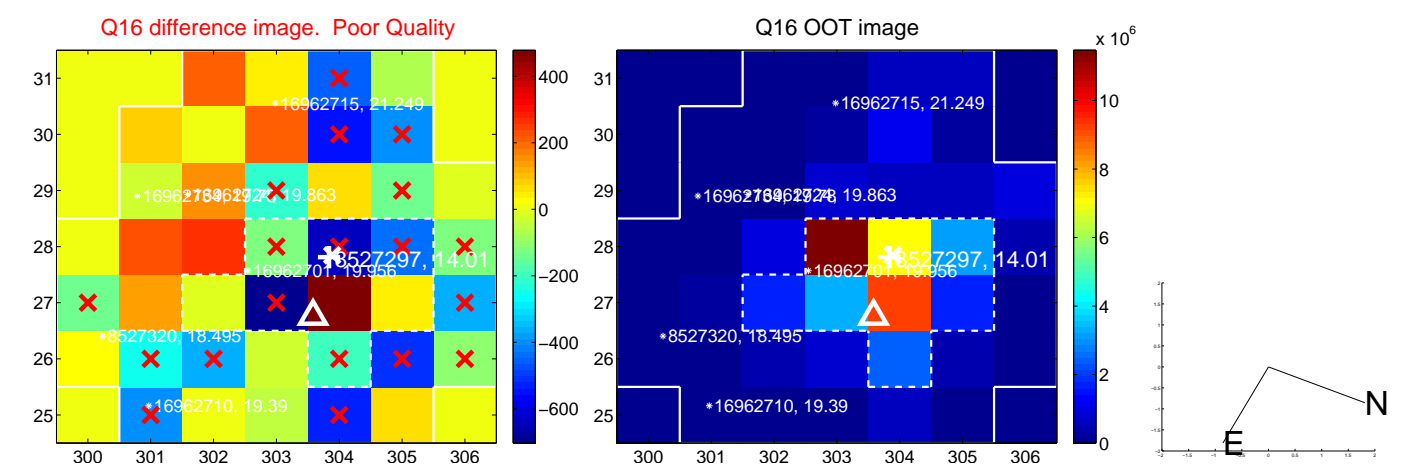
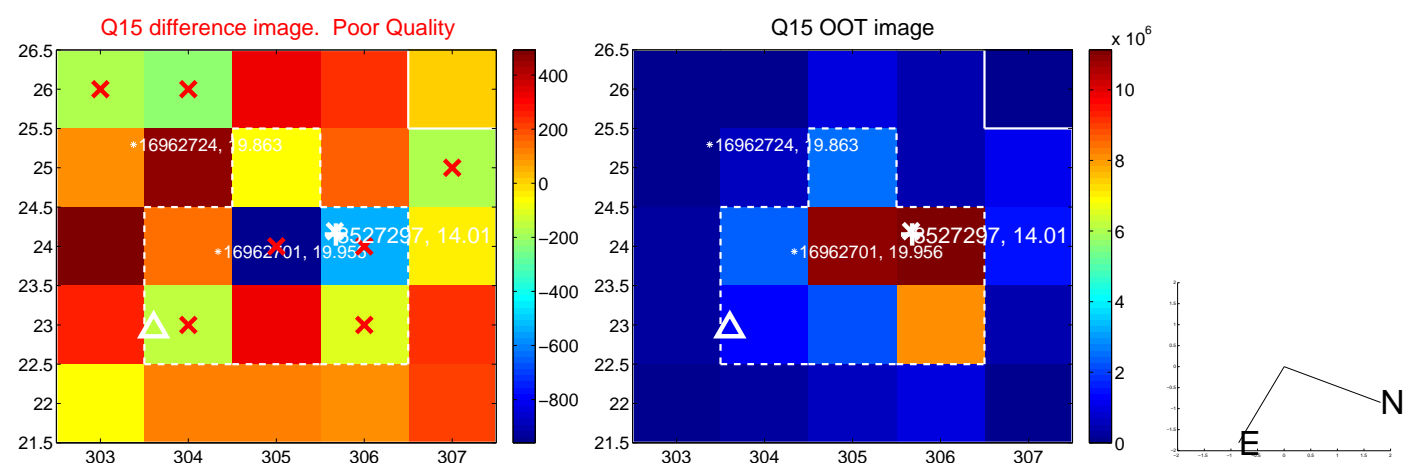
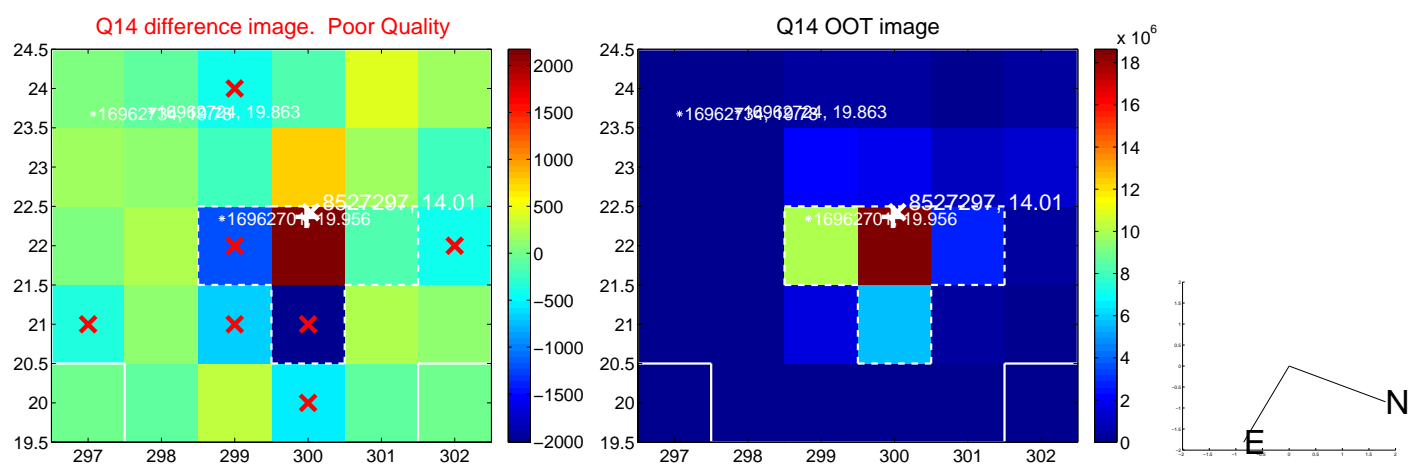
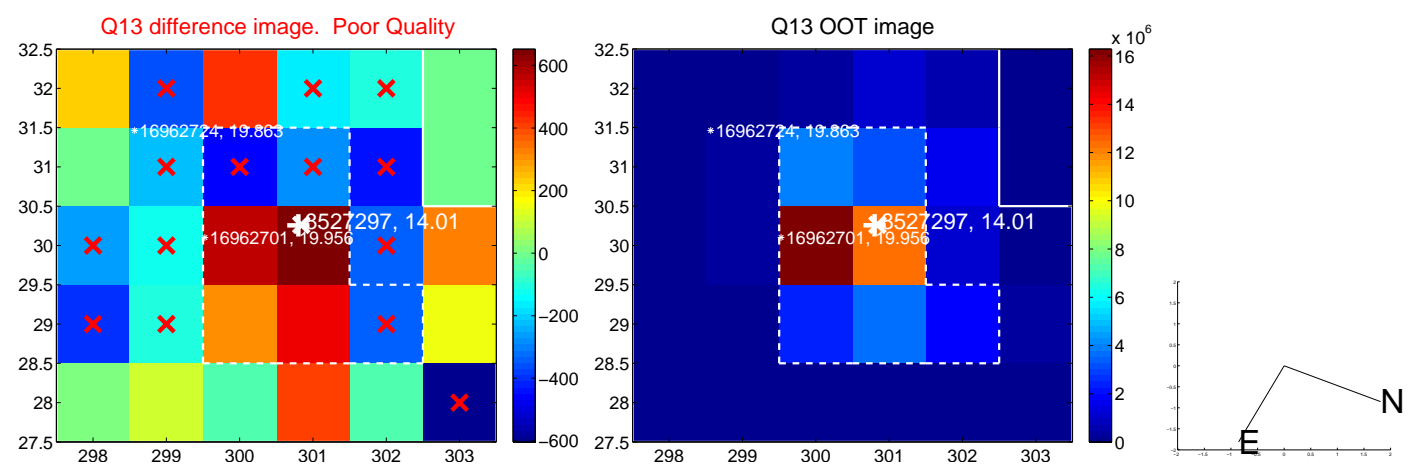
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



This astronomical image shows a field of stars against a dark background. A blue grid is overlaid on the image, with green text labels indicating coordinates. The vertical axis on the left is labeled with values 20.0, 30.0, 40.0, and 50.0. The horizontal axis at the bottom is labeled with values 39.0, 38.0, and 37.0. A prominent, bright star is located near the center of the image, at approximately (39.0, 40.0). Other stars of varying brightness are scattered throughout the field.

This astronomical image shows a field of stars against a dark background. A blue grid is overlaid on the image, with green text labels indicating coordinates. The vertical axis on the left is labeled with values 20.0, 30.0, 40.0, and 50.0. The horizontal axis at the bottom is labeled with values 39.0, 38.0, and 37.0. A prominent, bright star is located near the center of the image, at approximately (39.0, 40.0). Other stars of varying brightness are scattered throughout the field.