

KIC 007433279

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})
007433279-01	OBS	No	1.966398	131.861122	1.9	14.813	8.1	0.9	1.85	6428	0.28	4876.45
007433279-02	OBS	No	15.413098	141.232603	230.0	1.085	13.4	11.2	1.85	6428	3.24	313.19
007433279-03	OBS	No	19.286941	133.403171	220.9	0.897	9.8	10.4	1.85	6428	2.87	232.26

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007433279-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL — LPP_DV — MOD_NONUNIQ_DV
007433279-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE — TRANS_GAPPED — LPP_DV — MOD_NONUNIQ_DV
007433279-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE — TRANS_GAPPED — LPP_DV — MOD_NONUNIQ_DV

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

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

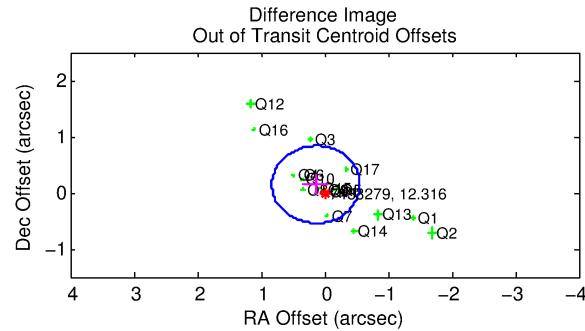
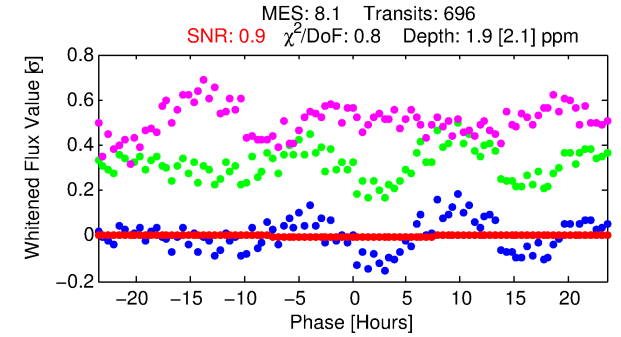
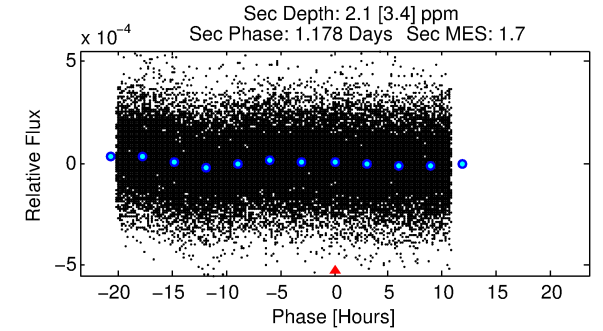
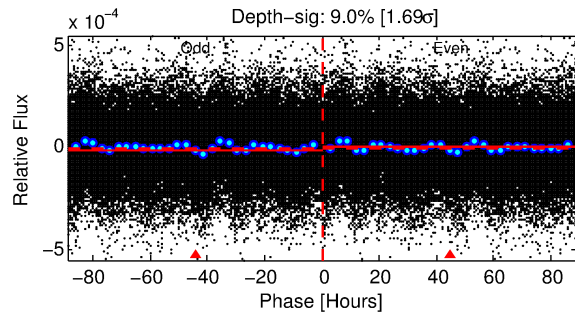
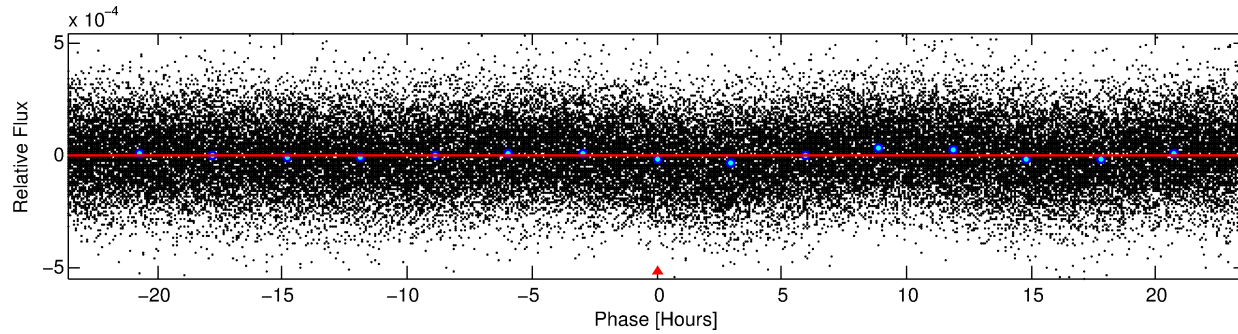
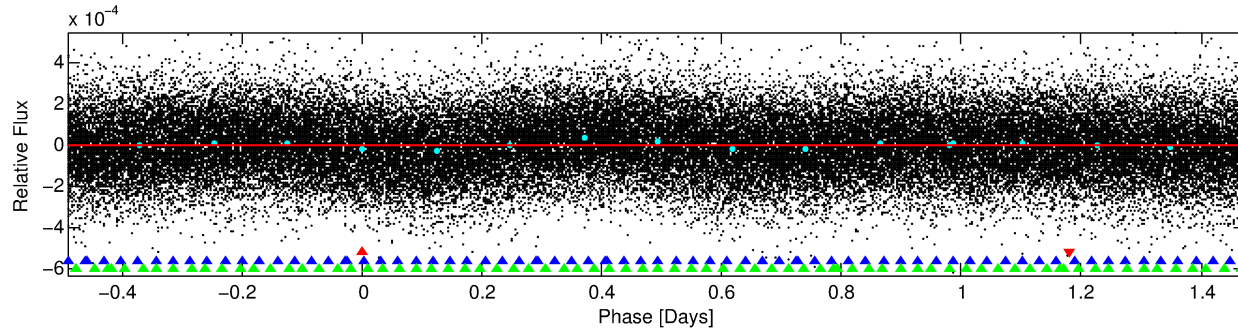
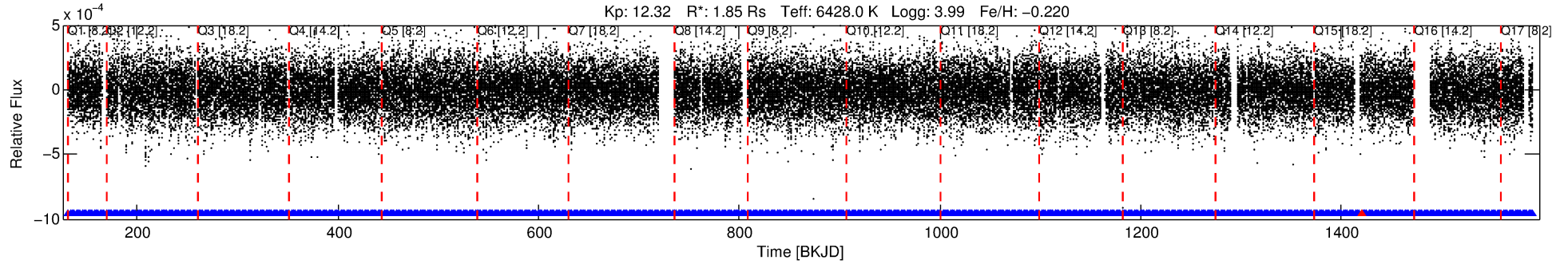
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007433279-01

No Significant Match Found

DV One-Page Summary

KIC: 7433279 Candidate: 1 of 3 Period: 1.966 d



DV Fit Results:

Period = 1.96640 [0.00027] d
Epoch = 131.8611 [0.0555] BKJD
Rp/R* = 0.0014 [0.0027]
a/R* = 1.11 [2.27]
b = 0.68 [8.39]
Seff = 4876.45 [2889.71]
Teq = 2131 [316] K
Rp = 0.27 [0.55] Re
a = 0.0327 [0.0115] AU
Ag = 16.61 [70.89] [0.22σ]
Teffp = 6651 [7034] K [0.64σ]

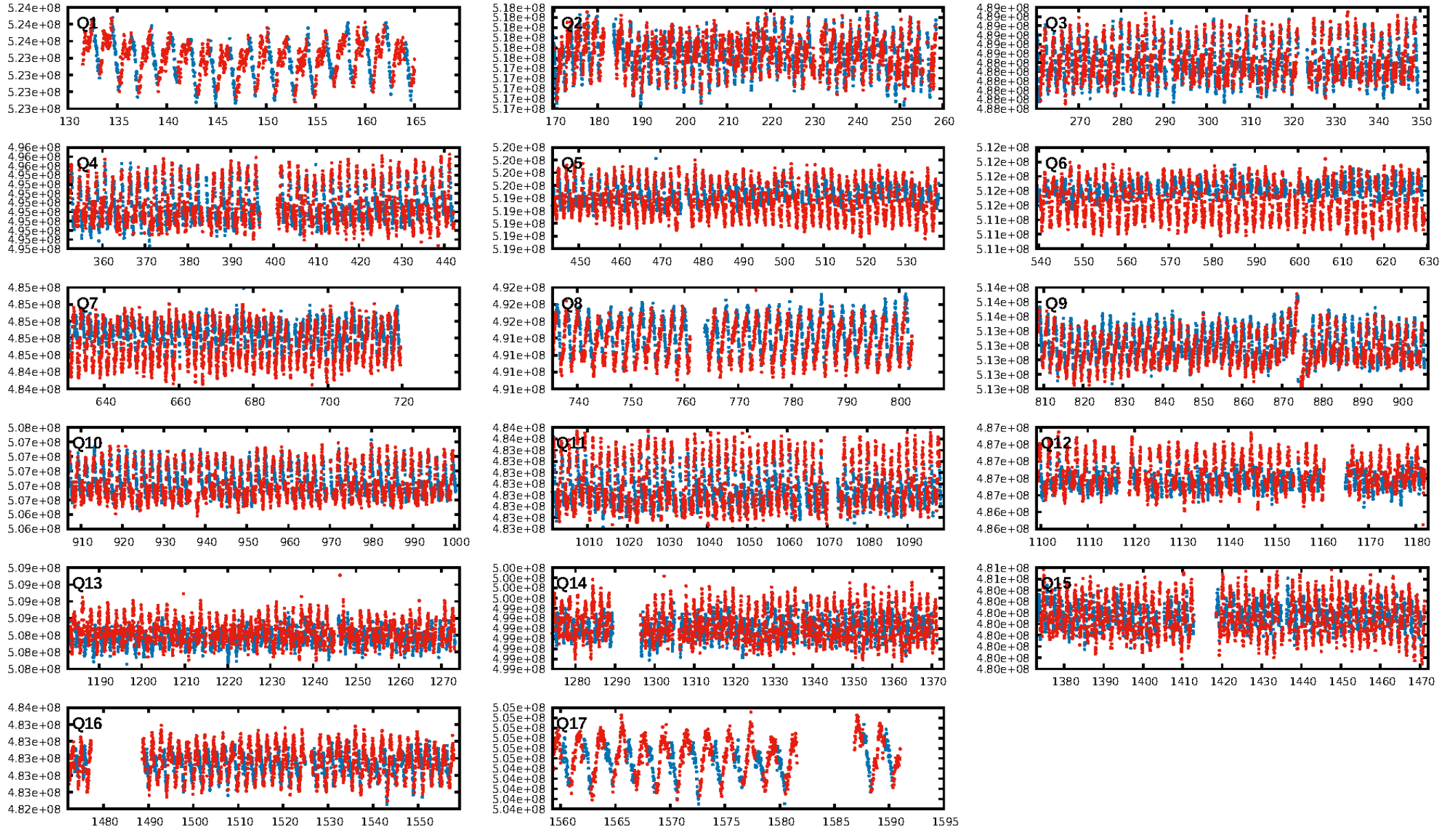
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [21.73σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 7.87e-40
RollingBand-fgt: 1.00 [662/663]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.201 arcsec [0.87σ]
KicOffset-rm: 0.284 arcsec [1.17σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.59 [10/17]
DiffImageOverlap-fno: 1.00 [17/17]

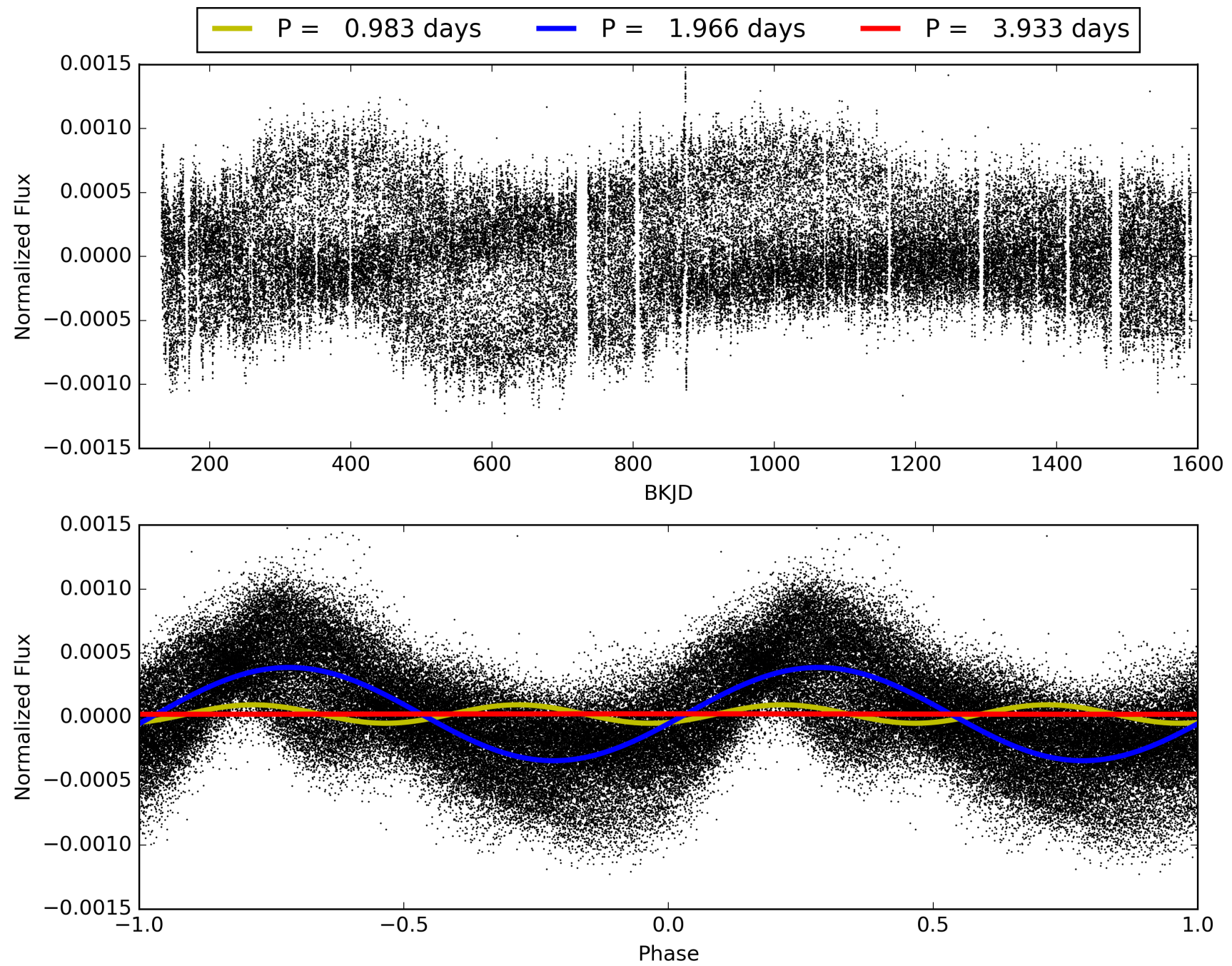
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:09:00 Z

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

TCE 007433279-01, PDC Light Curves

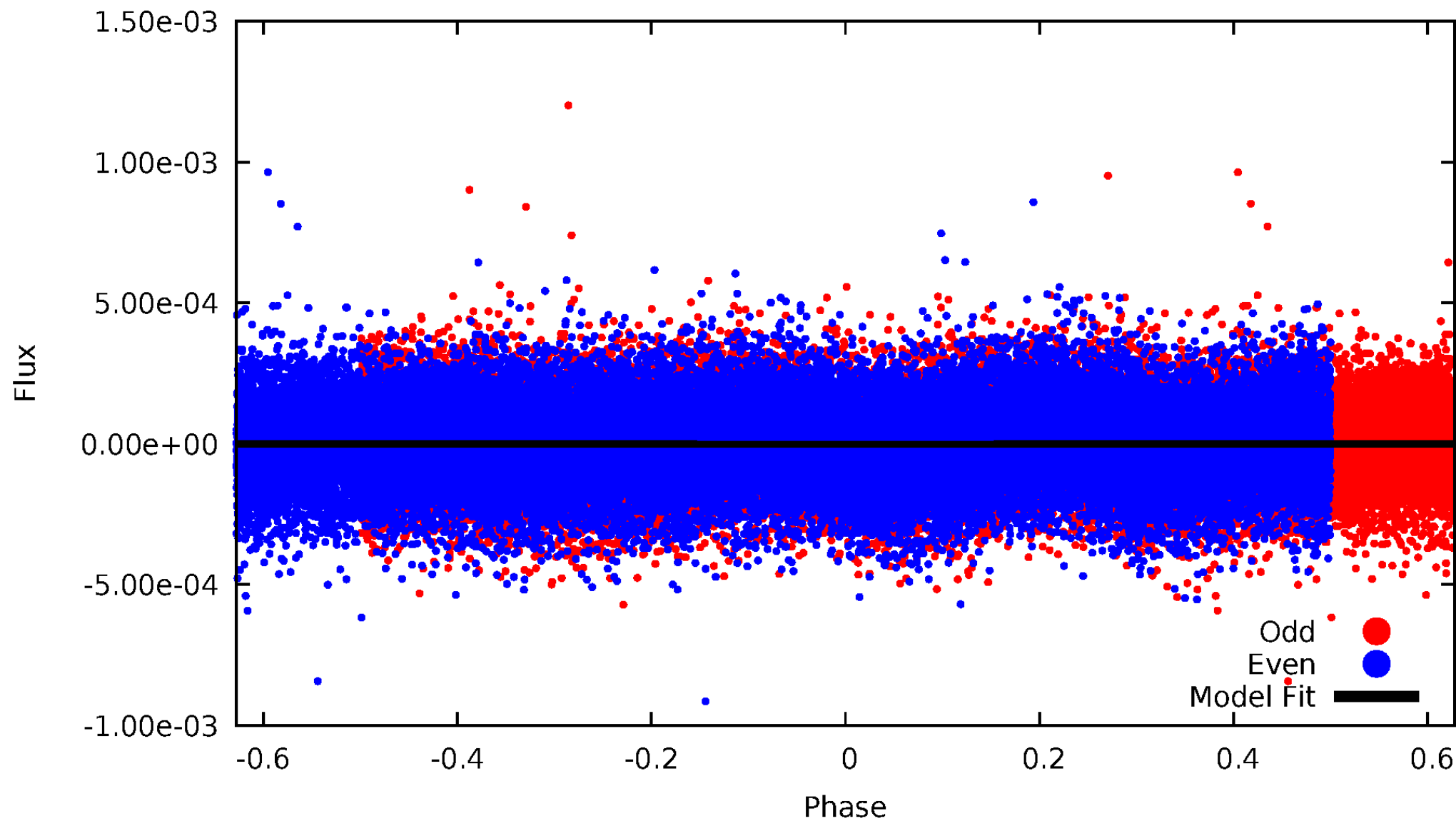


TCE 007433279-01



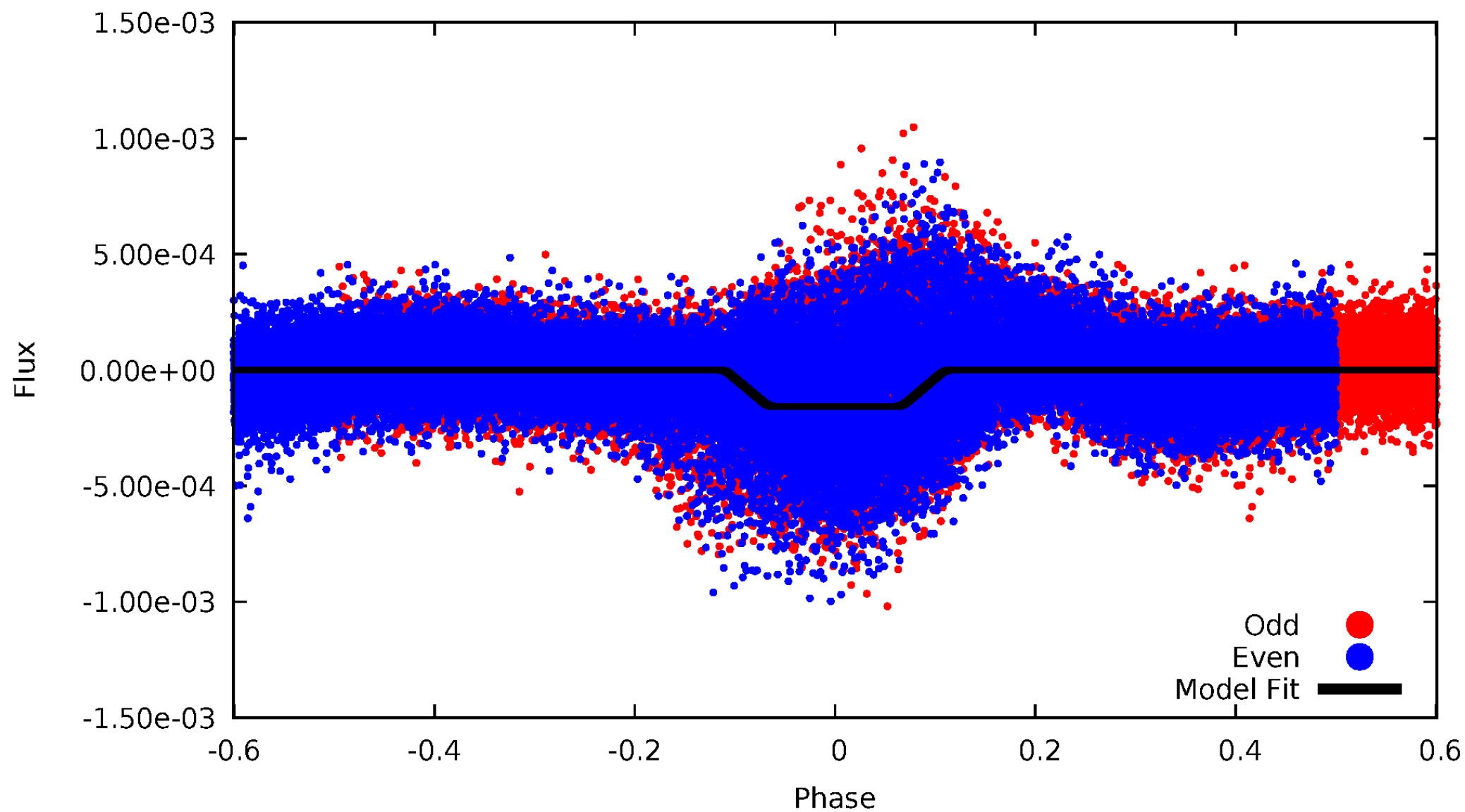
DV Odd/Even

TCE 007433279-01



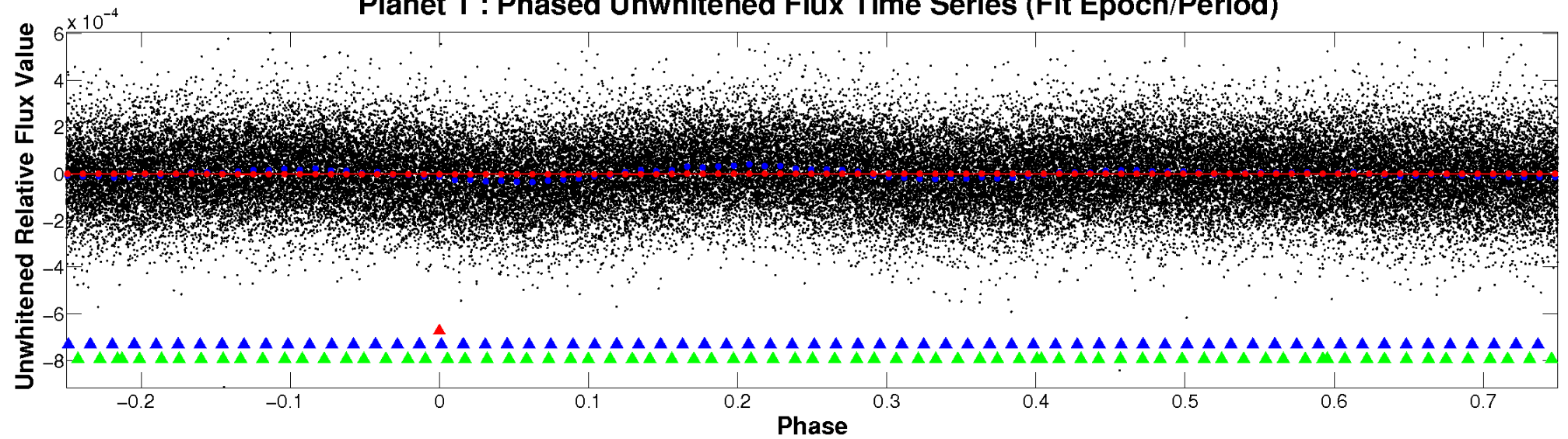
ALT Odd/Even

TCE 007433279-01

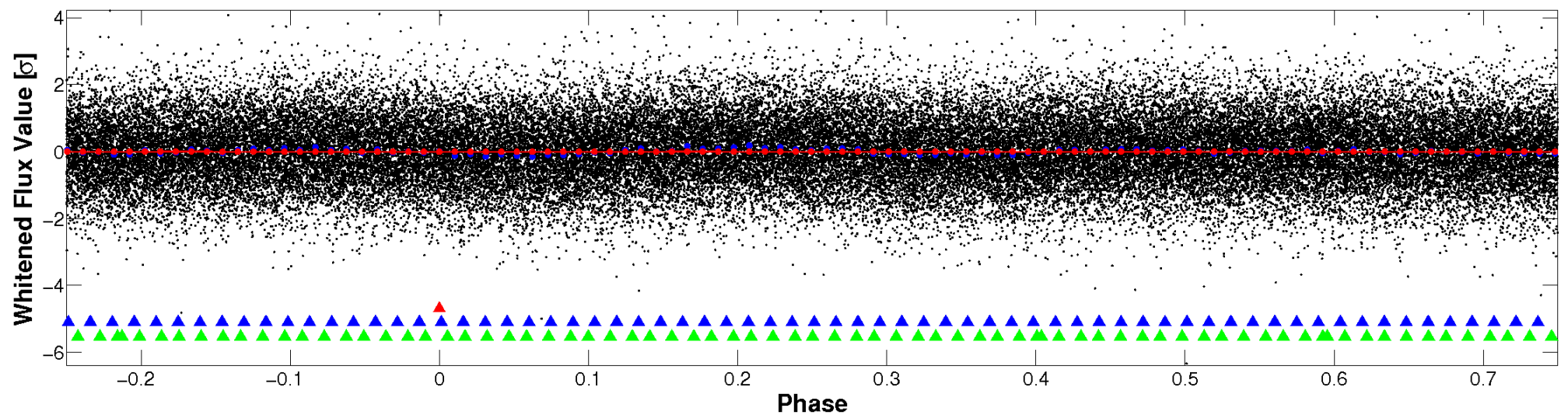


Non-Whitened Vs. Whitened Light Curve

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

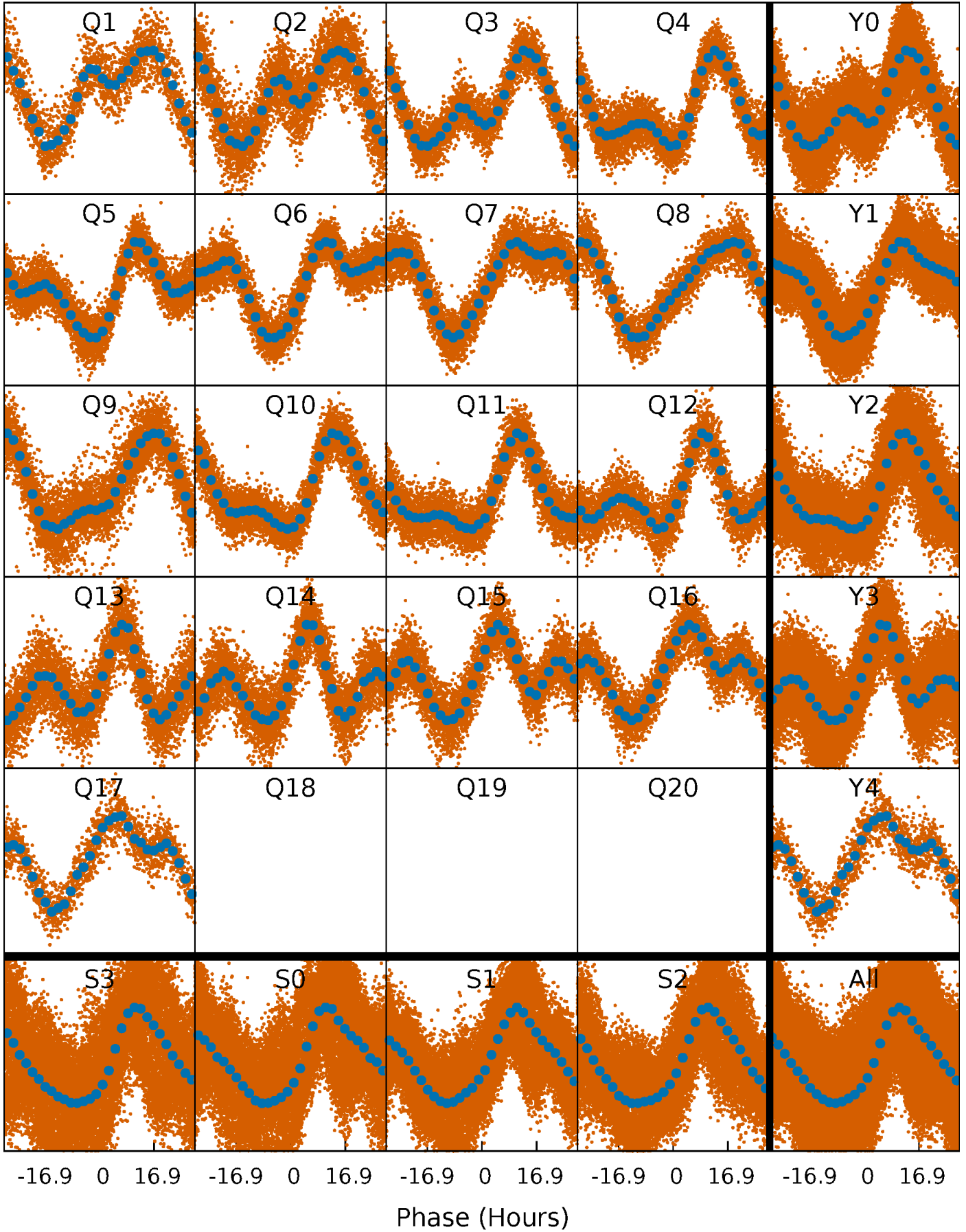


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



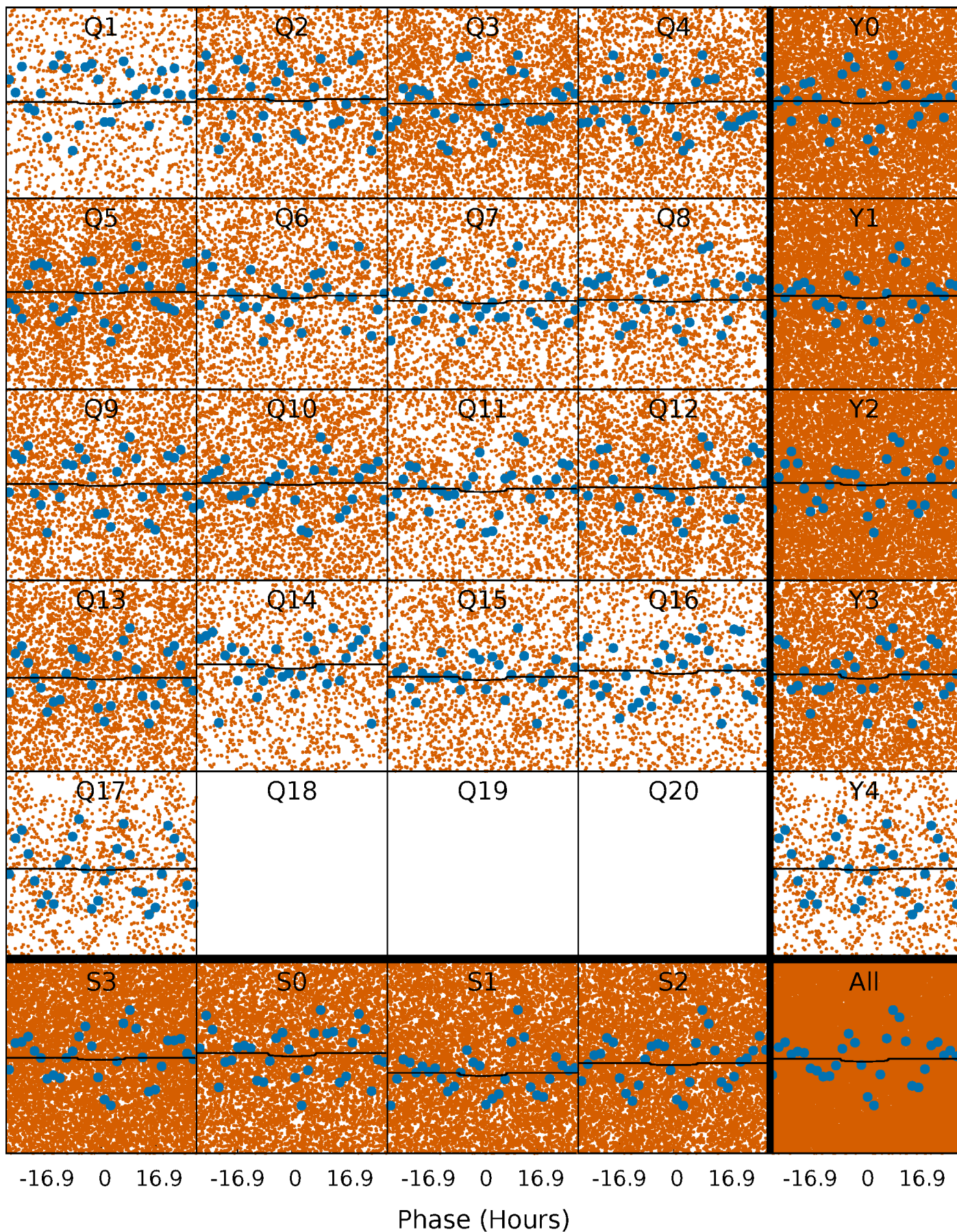
PDC Quarter-Phased Transit Curves

TCE 007433279-01 P= 1.966398 Days $T_0=131.861122$ (BKJD)



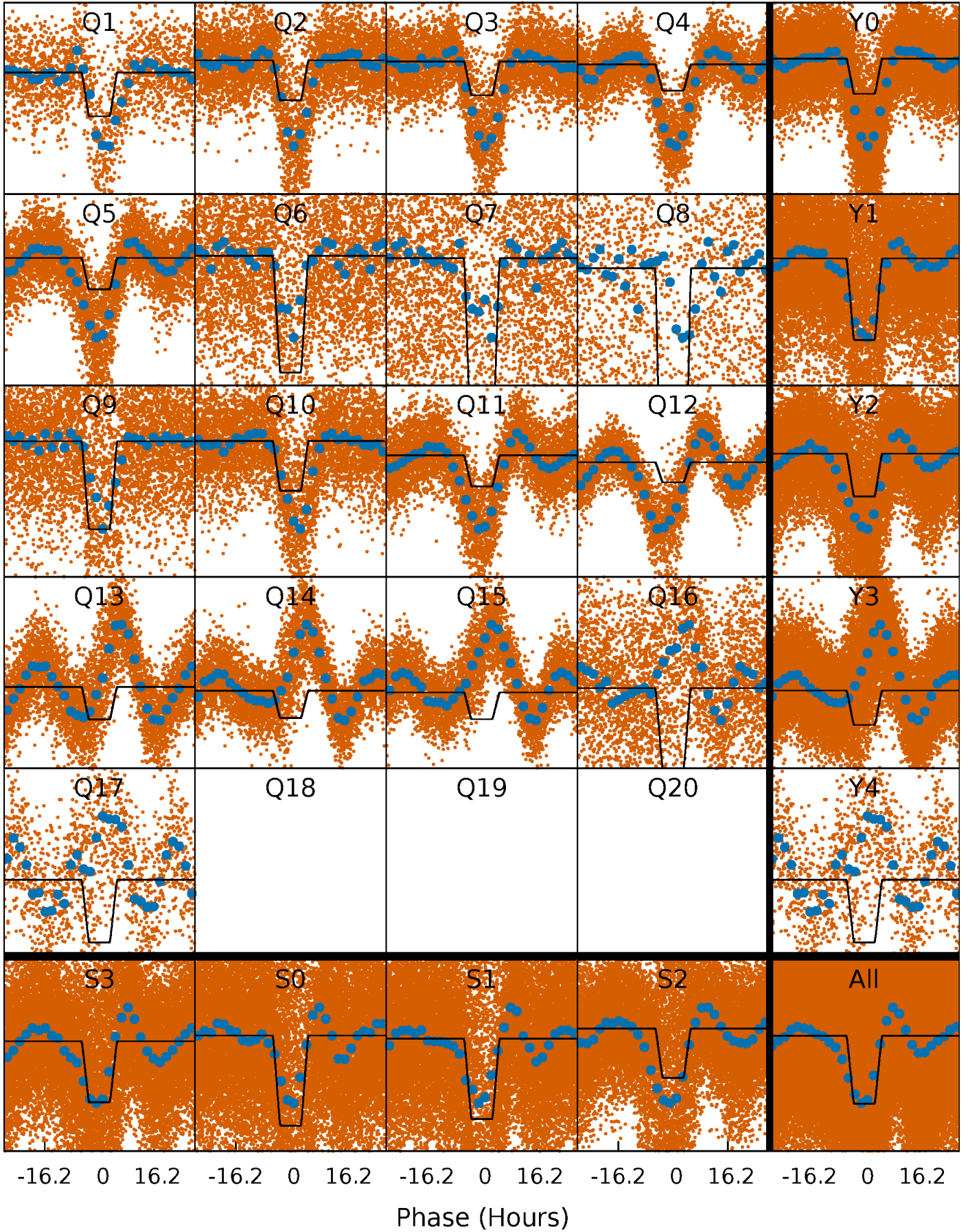
DV Quarter-Phased Transit Curves

TCE 007433279-01 P= 1.966398 Days $T_0=131.861122$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

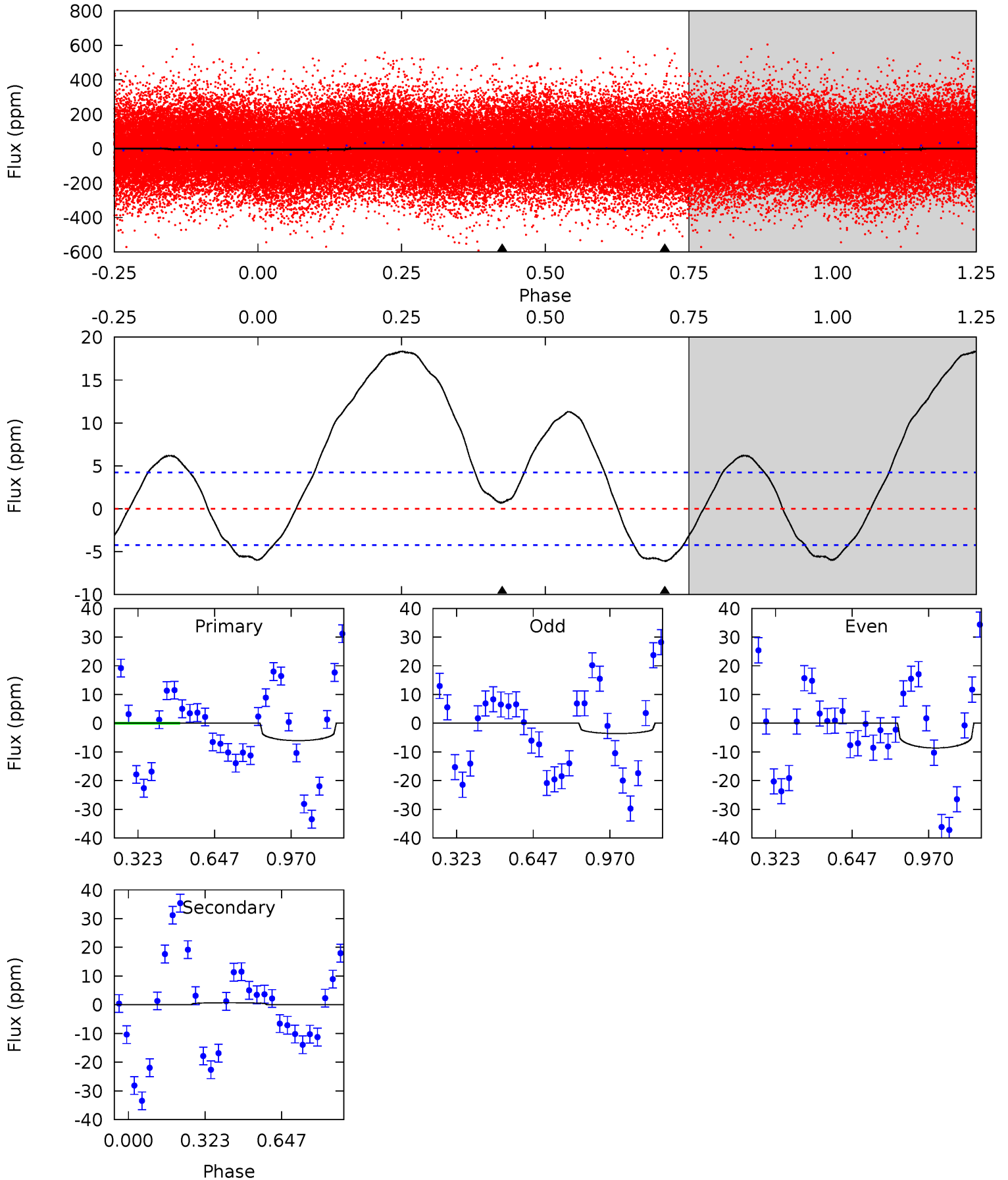
TCE 007433279-01 P= 1.966291 Days $T_0=131.956326$ (BKJD)



DV Model-Shift Uniqueness Test

007433279-01, P = 1.966398 Days, E = 129.894724 Days

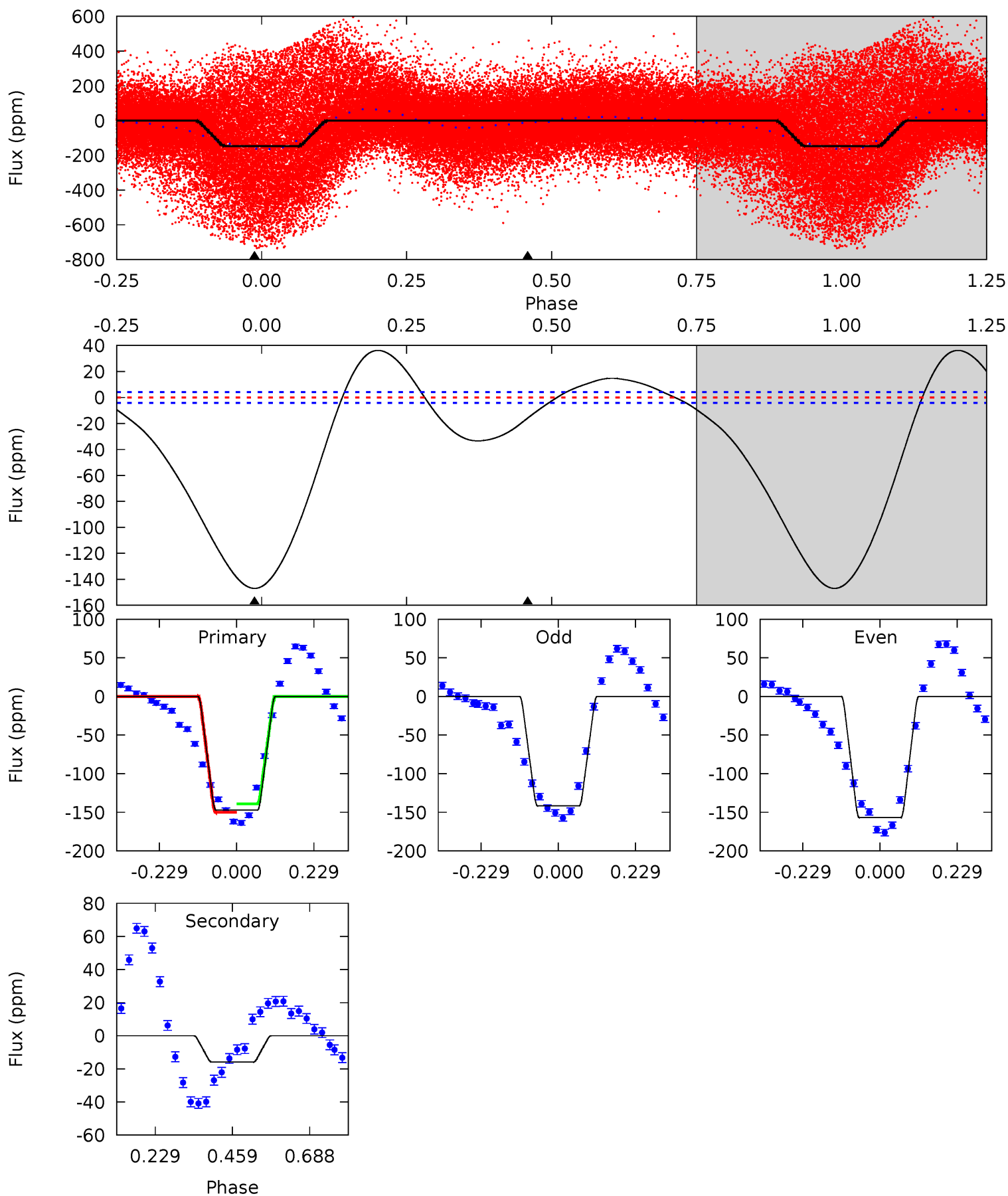
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.19	-0.72	0	0	4.31	0.99	3.80	6.19	6.19	-0.72	-0.72	2.60	0.63	0.75	6.26



Alt Model-Shift Uniqueness Test

007433279-01, P = 1.966291 Days, E = 129.990035 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
154.8	16.7	0	0	4.39	1.20	15.9	154.8	154.8	16.7	16.7	8.09	0.91	0.20	5.56



Stellar Parameters For KIC 007433279

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6428^{+181}_{-227}	$3.987^{+0.343}_{-0.147}$	$-0.220^{+0.300}_{-0.300}$	$1.848^{+0.527}_{-0.644}$	$1.211^{+0.201}_{-0.201}$	$0.270^{+0.713}_{-0.115}$
	+3%/-4%	+9%/-4%	+136%/-136%	+29%/-35%	+17%/-17%	+264%/-43%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 007433279-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	1 ± 1	$0.47^{+0.41}_{-0.30}$	2924^{+242}_{-279}	-4011^{+6857}_{-2201}	$-1.386^{+1.889}_{-12.636}$
Alt.	-16 ± 1	$2.43^{+0.71}_{-0.66}$	2923^{+246}_{-285}	3795^{+427}_{-300}	$1.586^{+1.392}_{-0.618}$

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

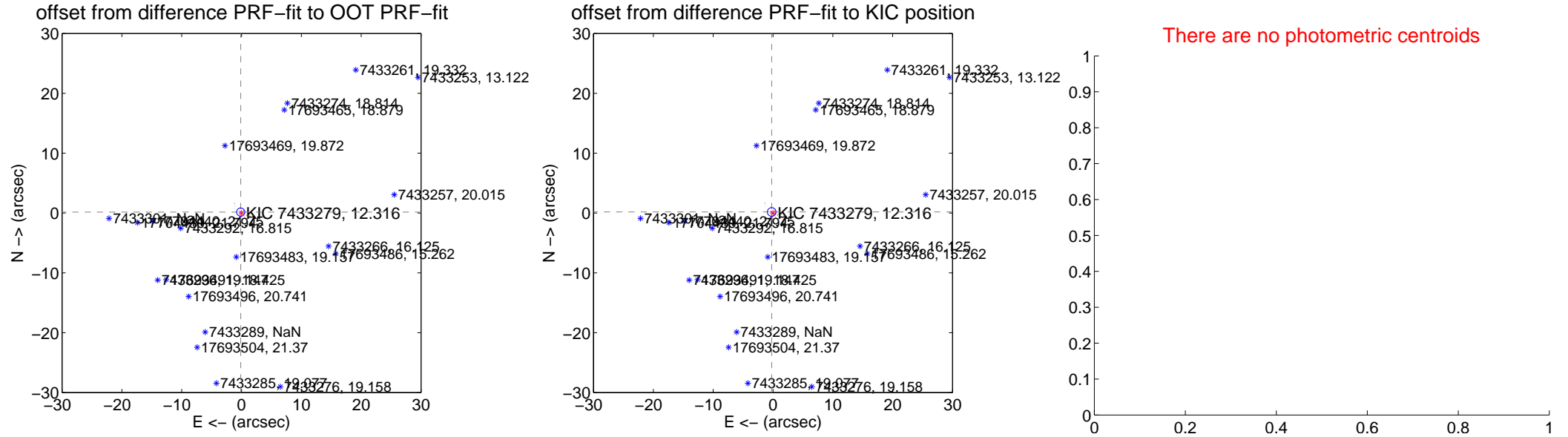
DV Centroid Data

Supplemental centroid analysis for 007433279-01. Kepler magnitude: 12.32. Transit SNR 0.95

There are 10 quarters with good PRF difference image offsets

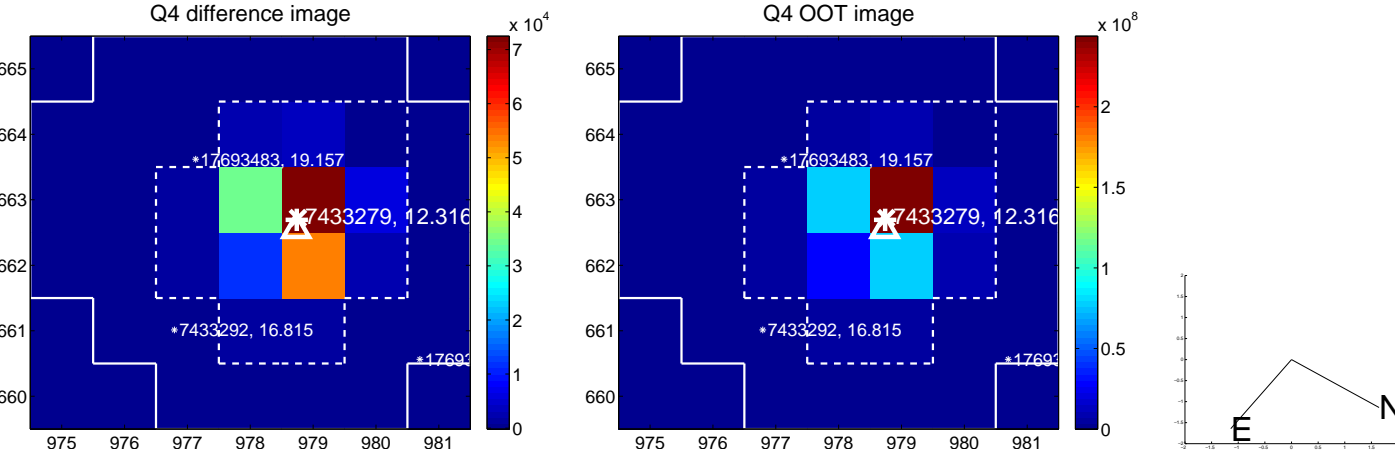
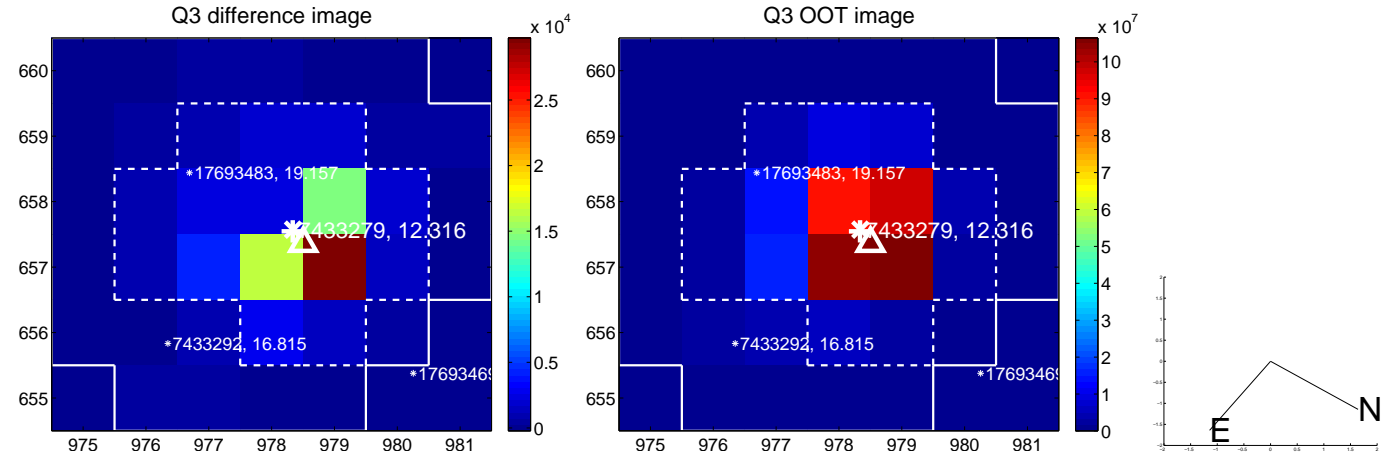
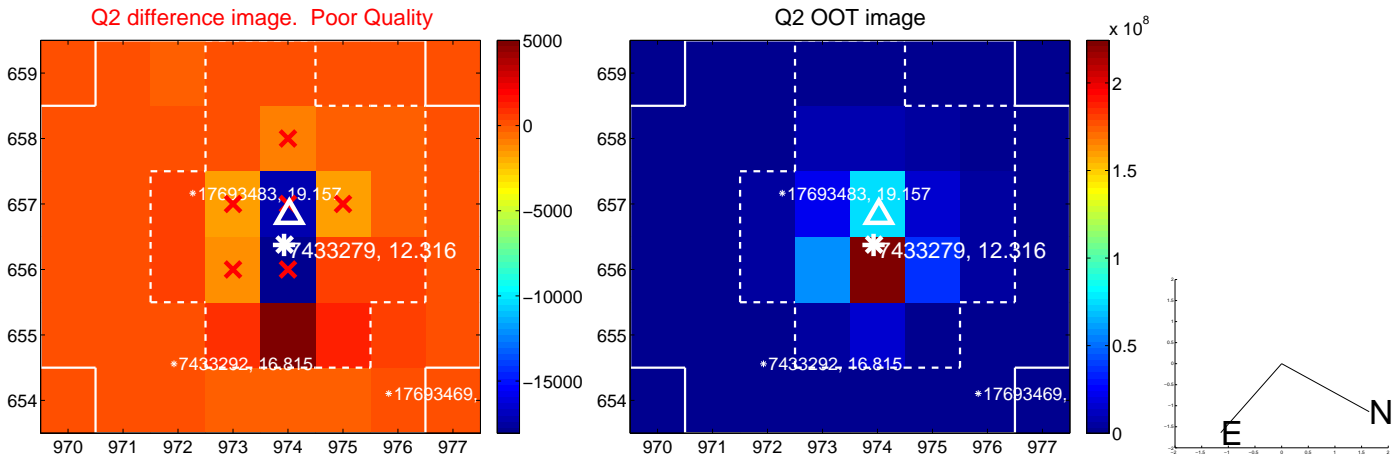
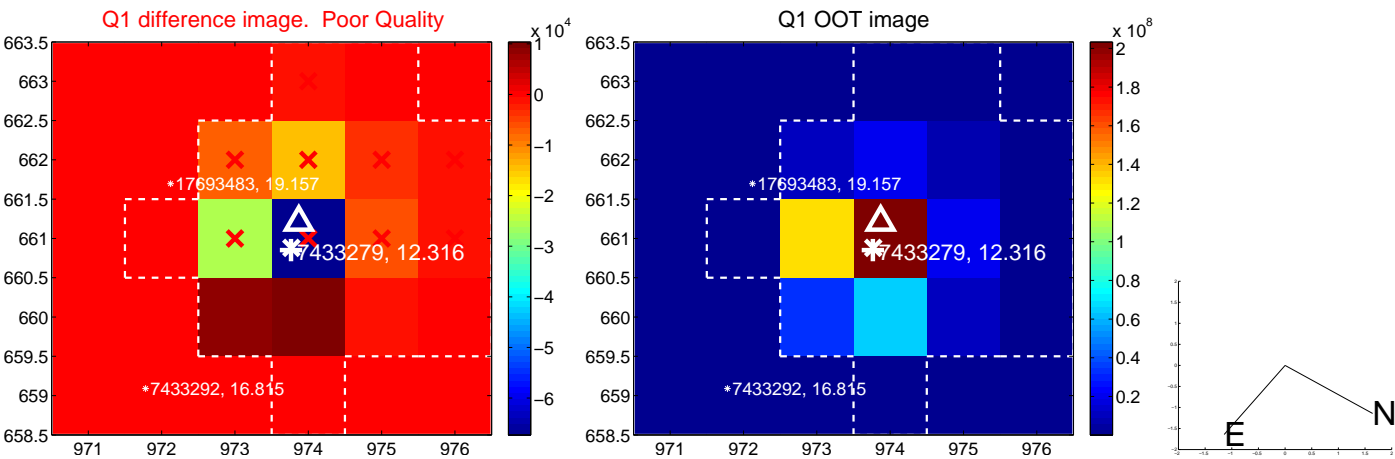
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.201 ± 0.230	0.87	0.138 ± 0.192	0.146 ± 0.162
PRF-fit source offset from KIC position	0.284 ± 0.242	1.17	0.224 ± 0.200	0.175 ± 0.165
photometric centroid source offset	—	—	—	—

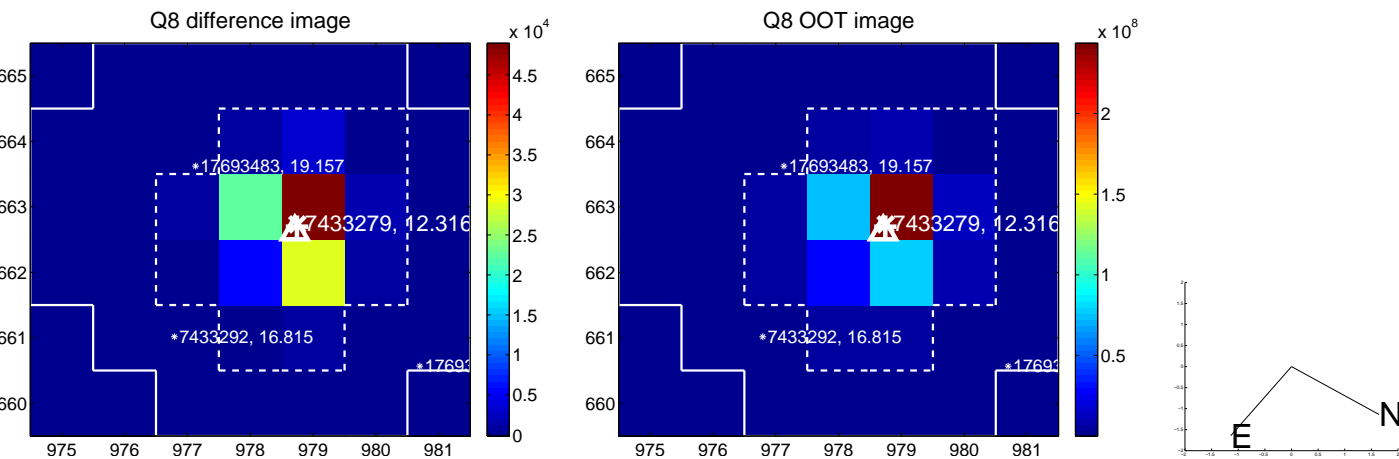
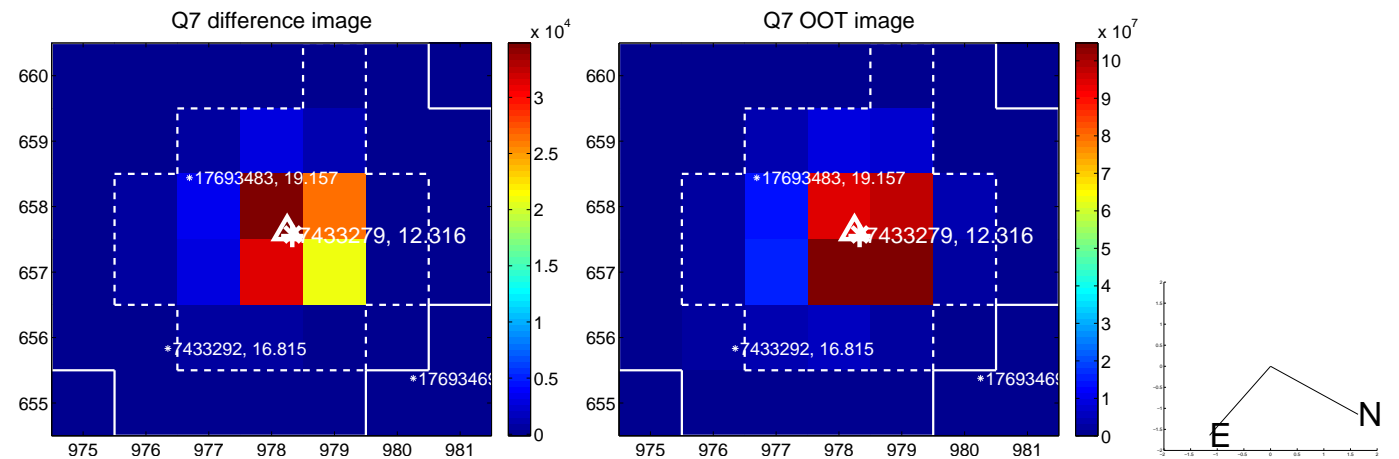
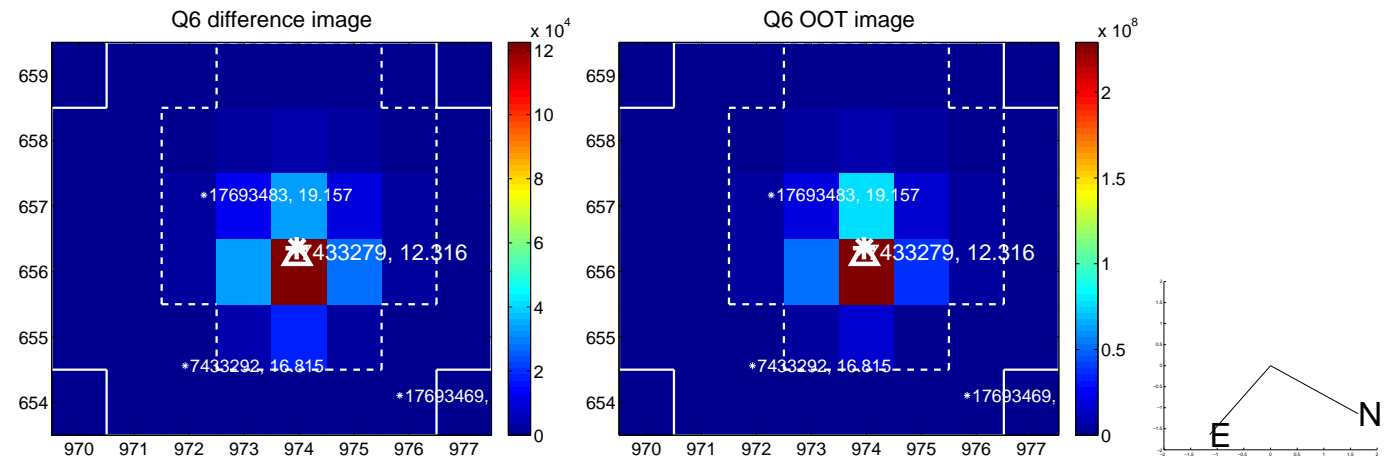
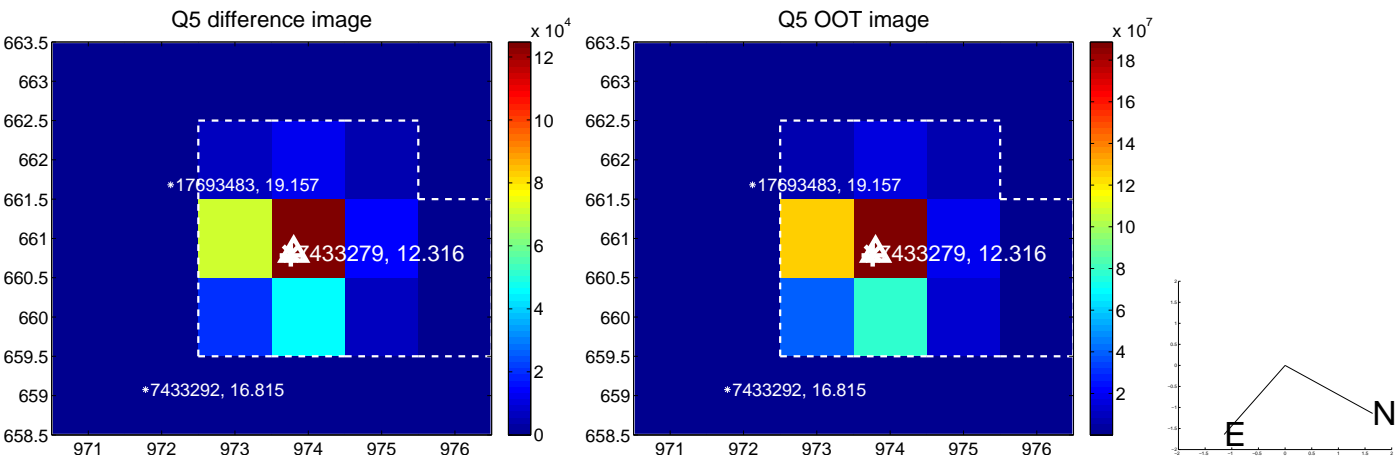


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

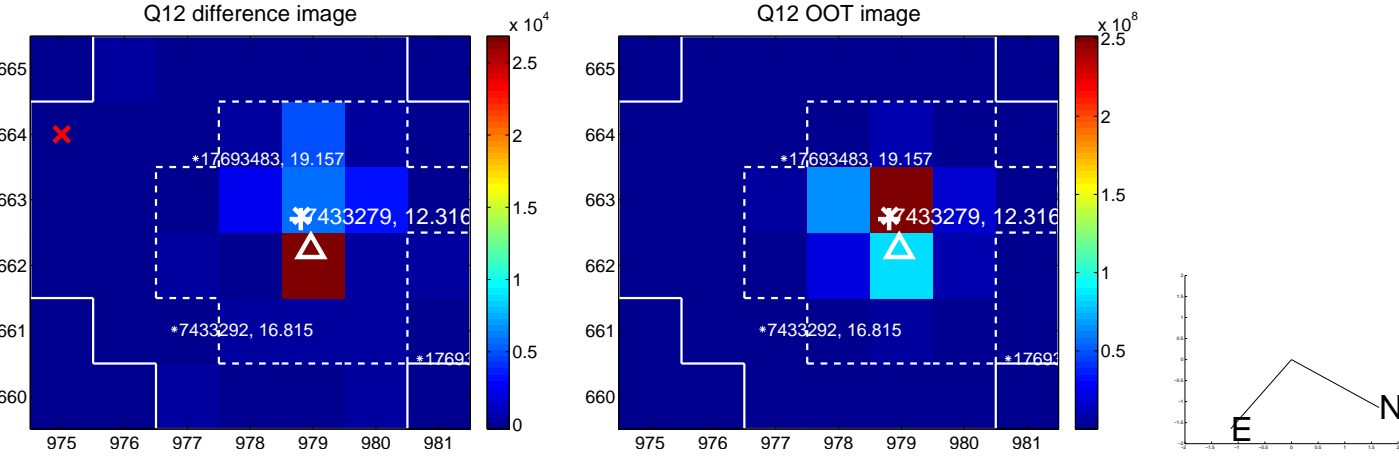
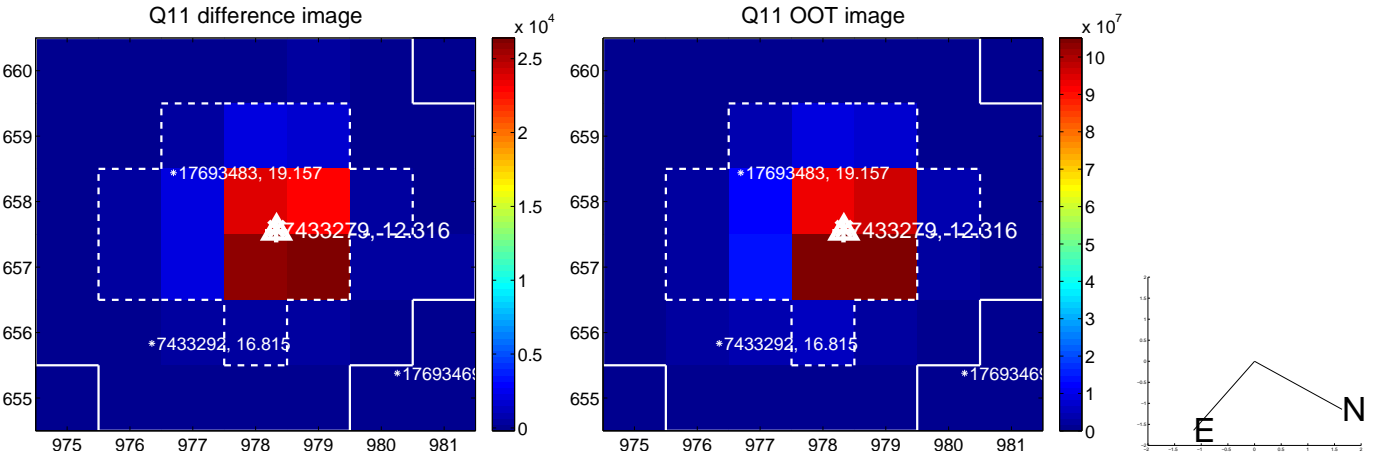
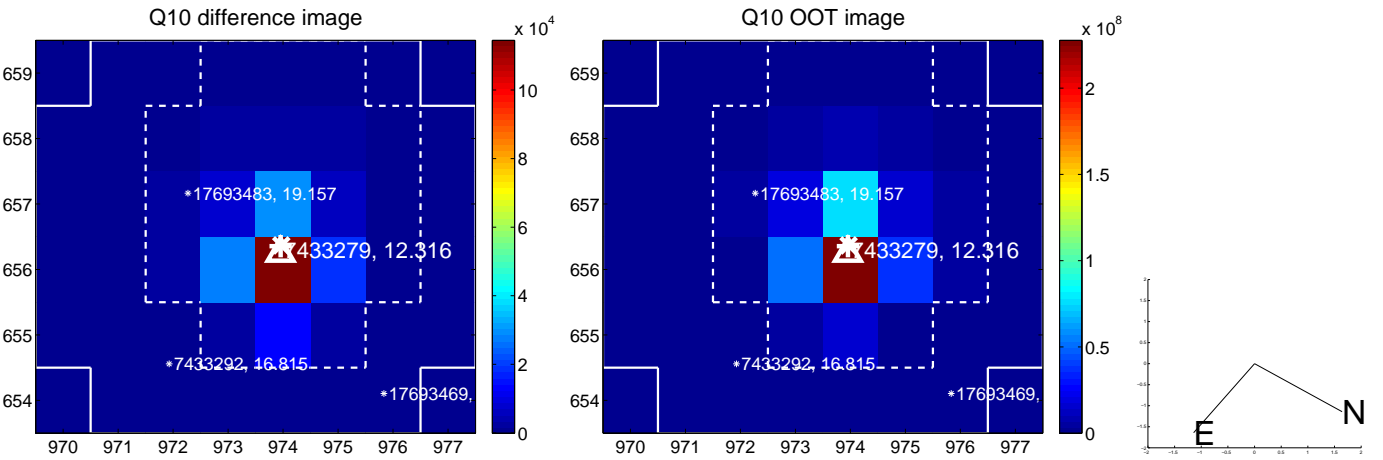
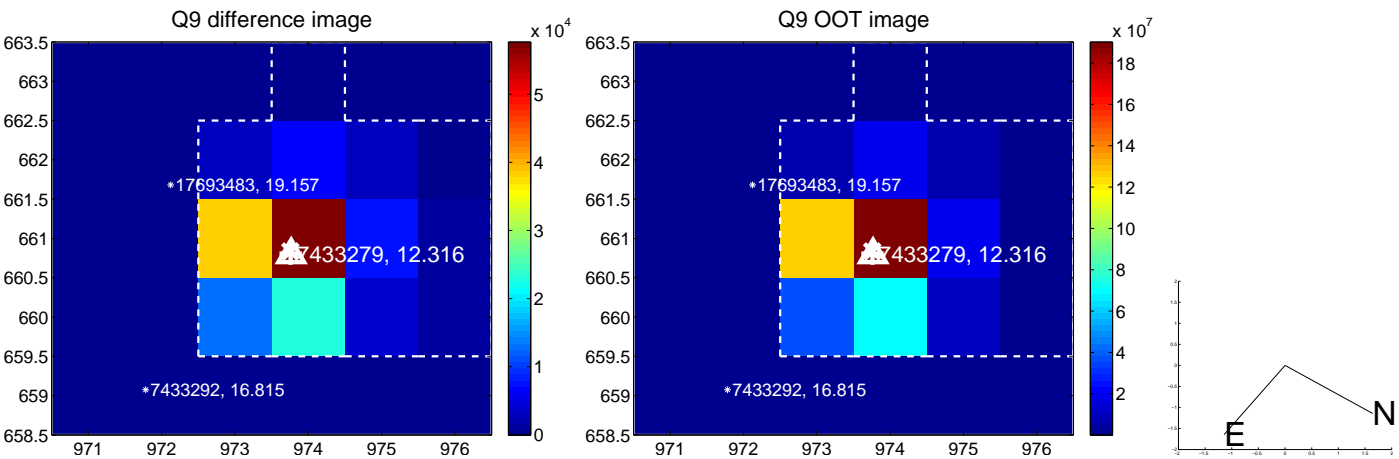
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



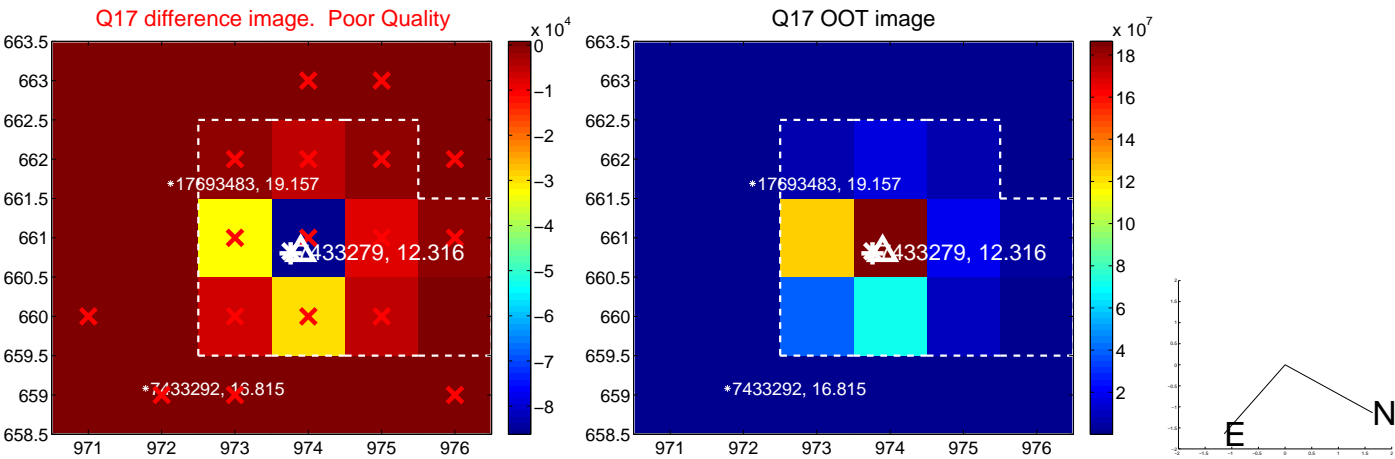
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

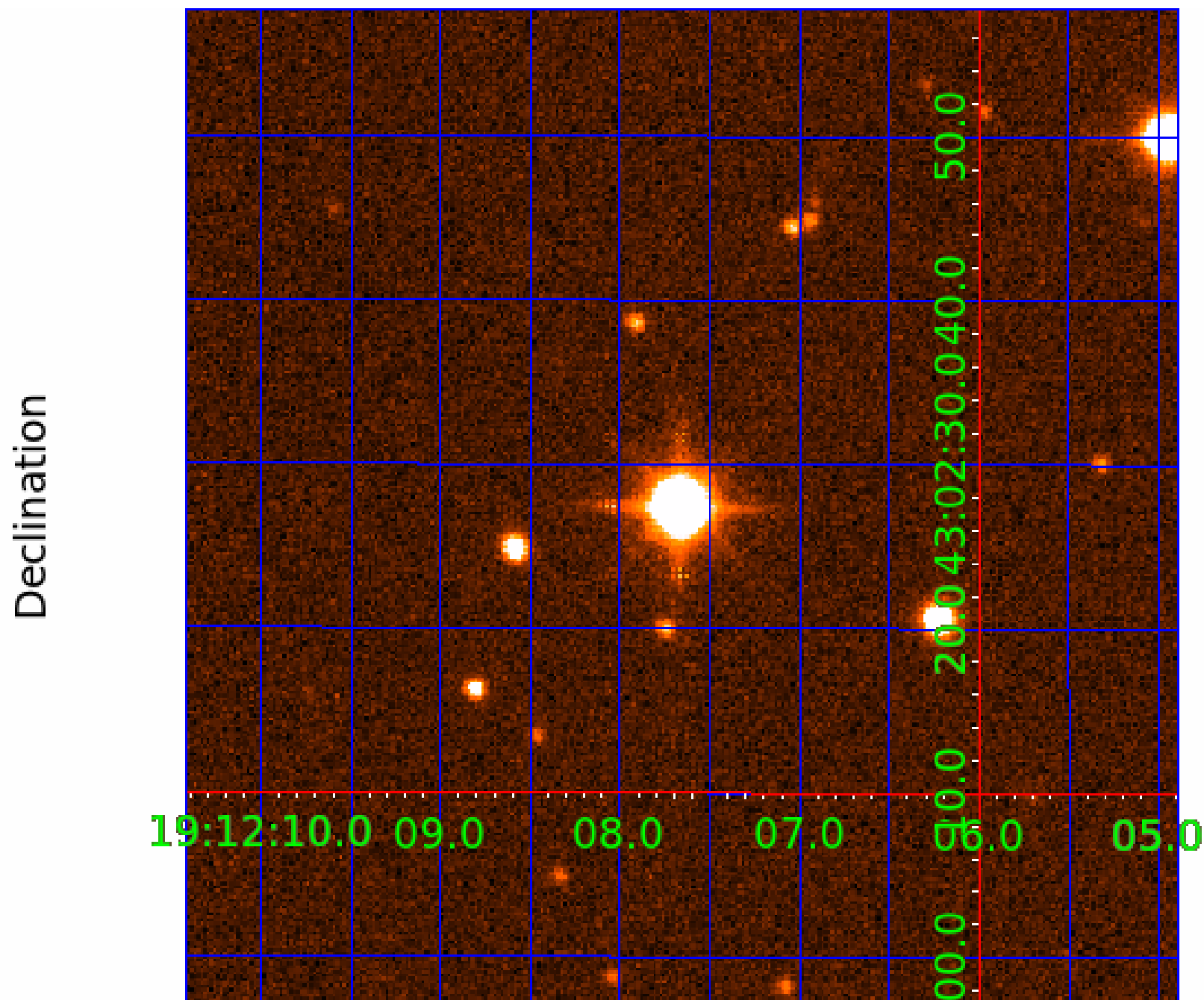


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image



KIC 007433279

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})
007433279-01	OBS	No	1.966398	131.861122	1.9	14.813	8.1	0.9	1.85	6428	0.28	4876.45
007433279-02	OBS	No	15.413098	141.232603	230.0	1.085	13.4	11.2	1.85	6428	3.24	313.19
007433279-03	OBS	No	19.286941	133.403171	220.9	0.897	9.8	10.4	1.85	6428	2.87	232.26

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007433279-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV
007433279-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
007433279-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

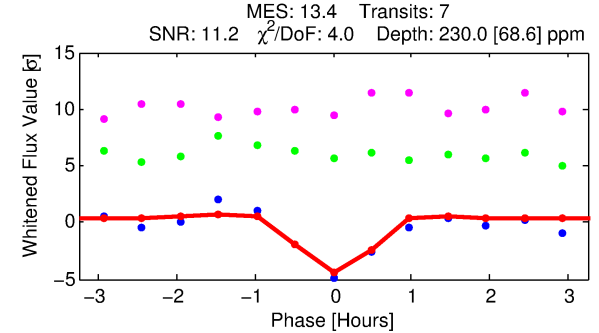
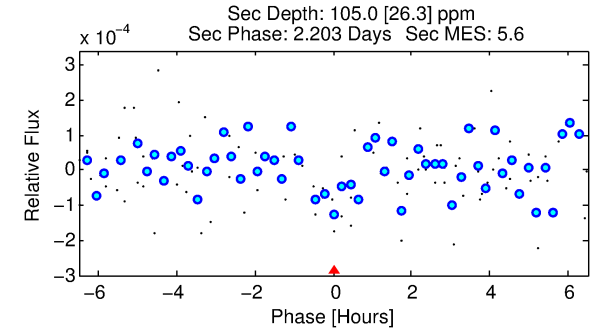
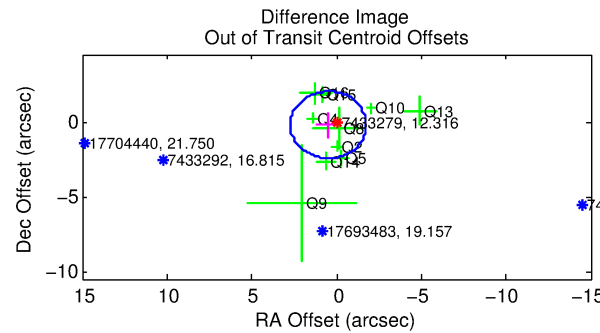
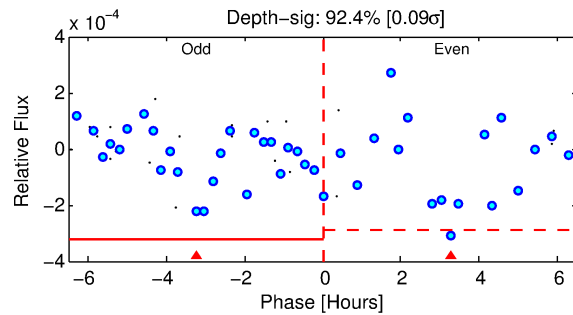
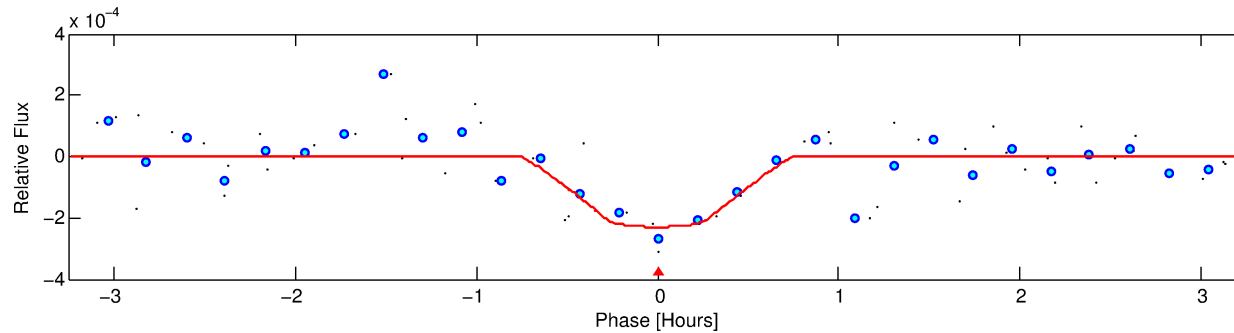
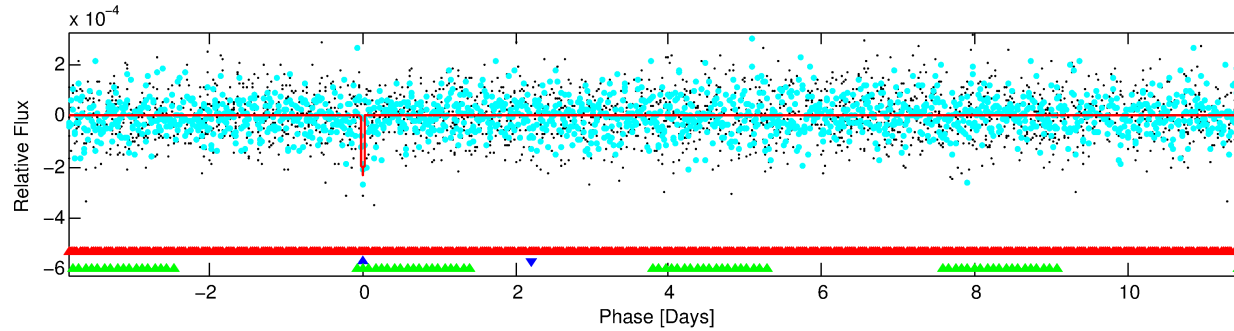
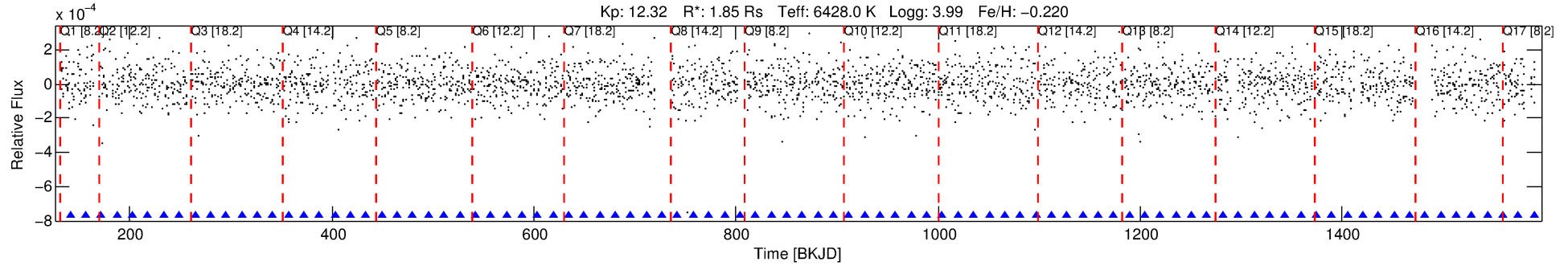
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007433279-02

No Significant Match Found

DV One-Page Summary

KIC: 7433279 Candidate: 2 of 3 Period: 15.413 d



DV Fit Results:

Period = 15.41310 [0.00018] d
Epoch = 141.2326 [0.0061] BKJD
Rp/R* = 0.0161 [0.0331]
a/R* = 55.77 [640.24]
b = 0.88 [3.08]
Seff = 313.19 [185.59]
Teq = 1073 [159] K
Rp = 3.24 [6.77] Re
a = 0.1291 [0.0453] AU
Ag = 91.65 [381.71] [0.24 σ]
Teffp = 5132 [5295] K [0.77 σ]

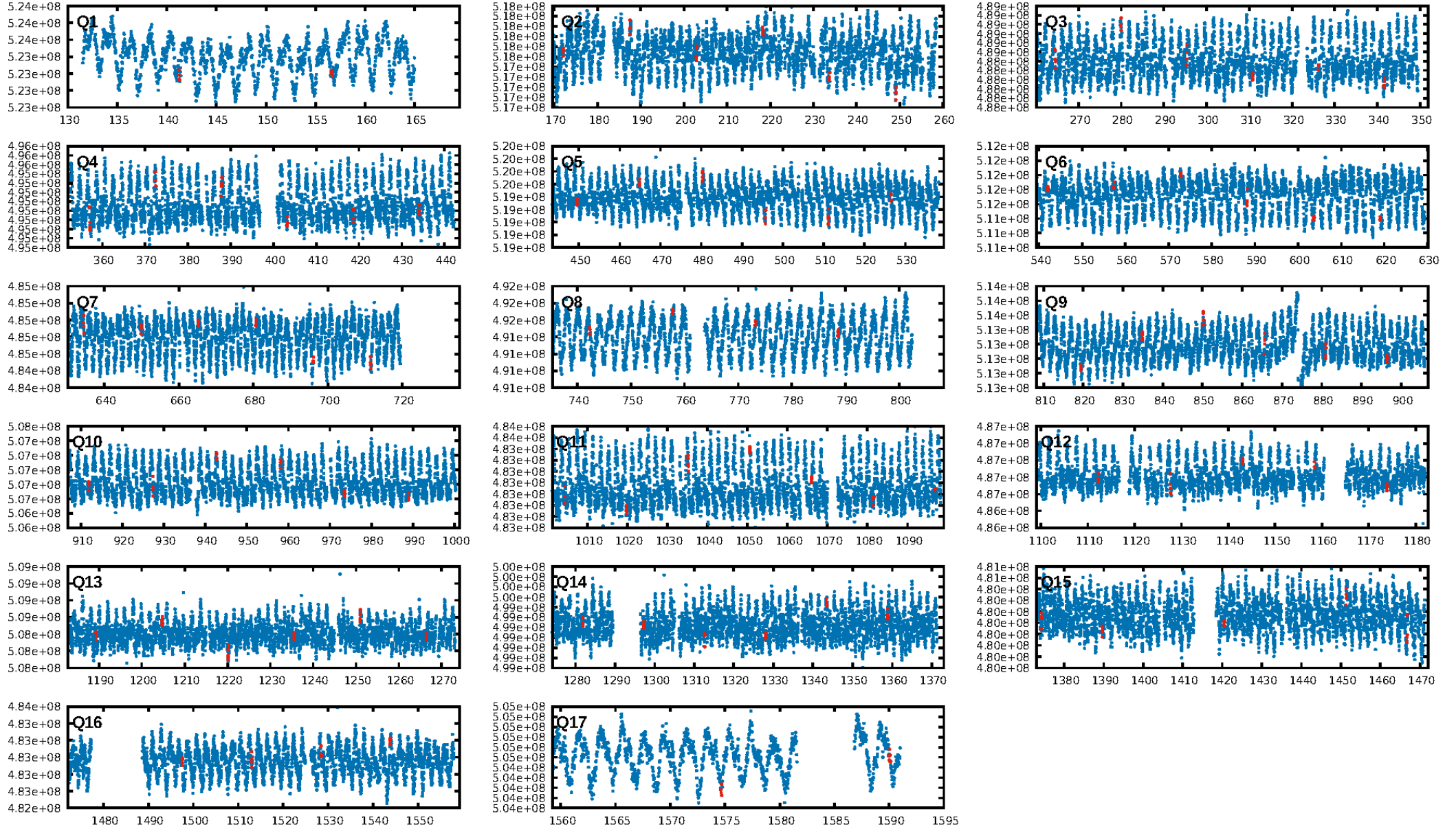
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [21.73 σ]
LongPeriod-sig: 100.0% [66.04 σ]
ModelChiSquare2-sig: 0.2%
ModelChiSquareGof-sig: 38.2%
Bootstrap-pfa: 1.21e-12
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: 1.273
Centroid-sig: 29.4%
Centroid-so: 0.375 arcsec [1.50 σ]
OotOffset-rm: 0.533 arcsec [0.72 σ]
KicOffset-rm: 0.609 arcsec [0.81 σ]
OotOffset-st: 3/1/3/3 [10]
KicOffset-st: 3/1/3/3 [10]
DiffImageQuality-fgm: 0.40 [4/10]
DiffImageOverlap-fno: 1.00 [17/17]

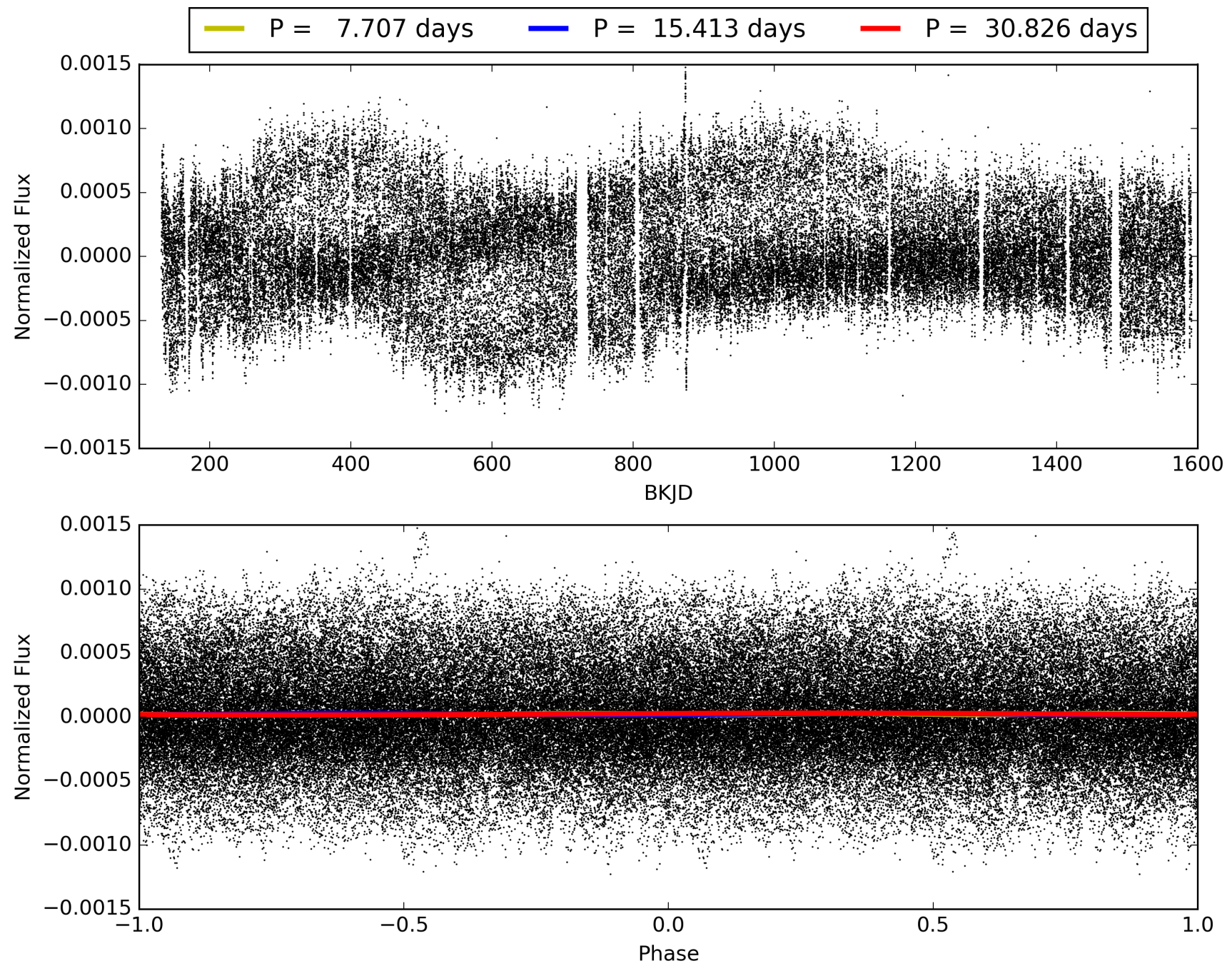
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:09:11 Z

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

TCE 007433279-02, PDC Light Curves

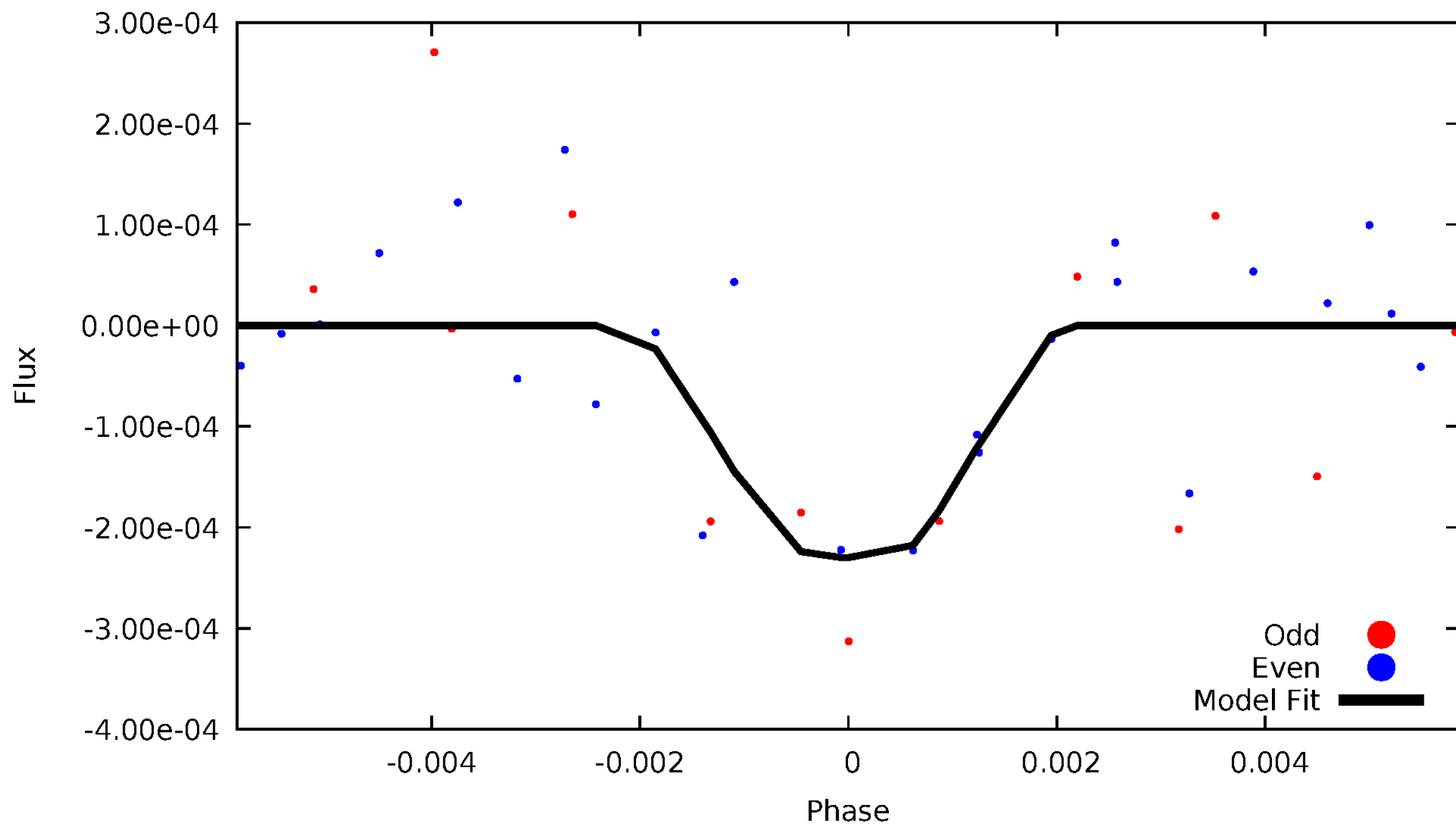


TCE 007433279-02



DV Odd/Even

TCE 007433279-02

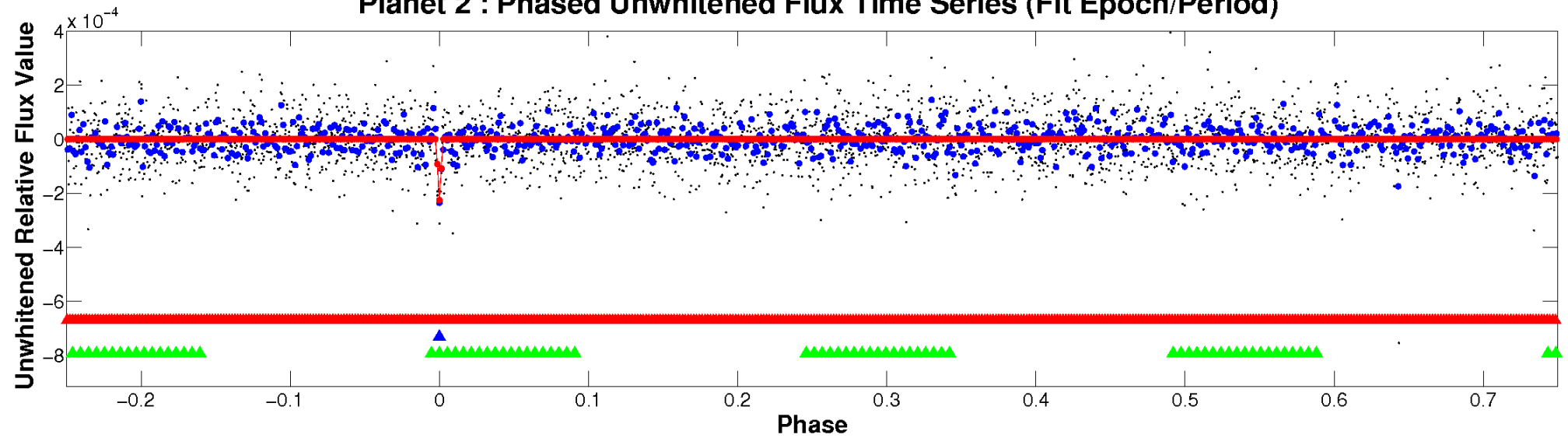


ALT Odd/Even

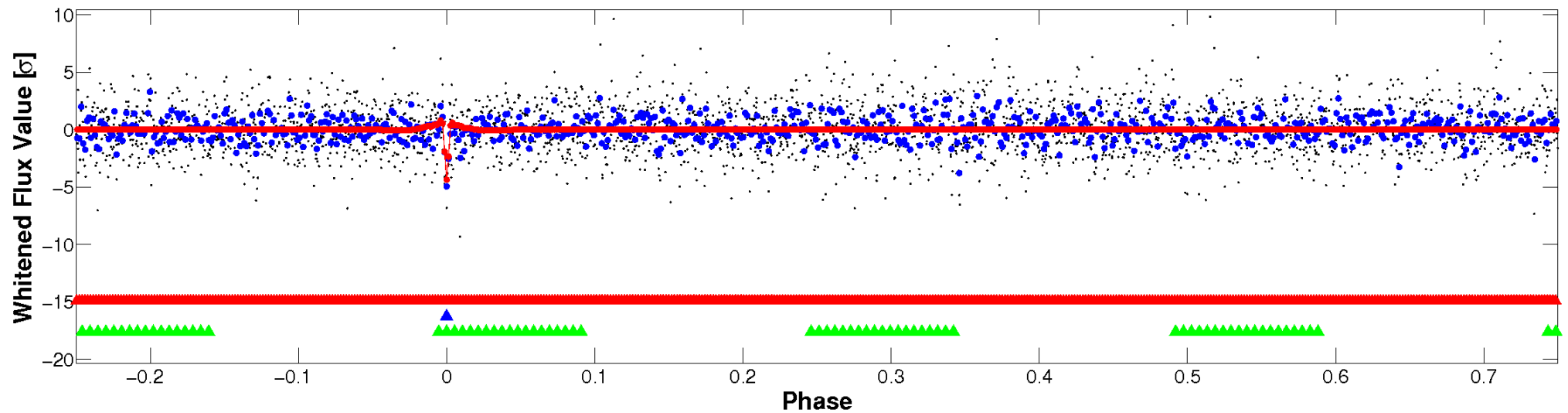
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

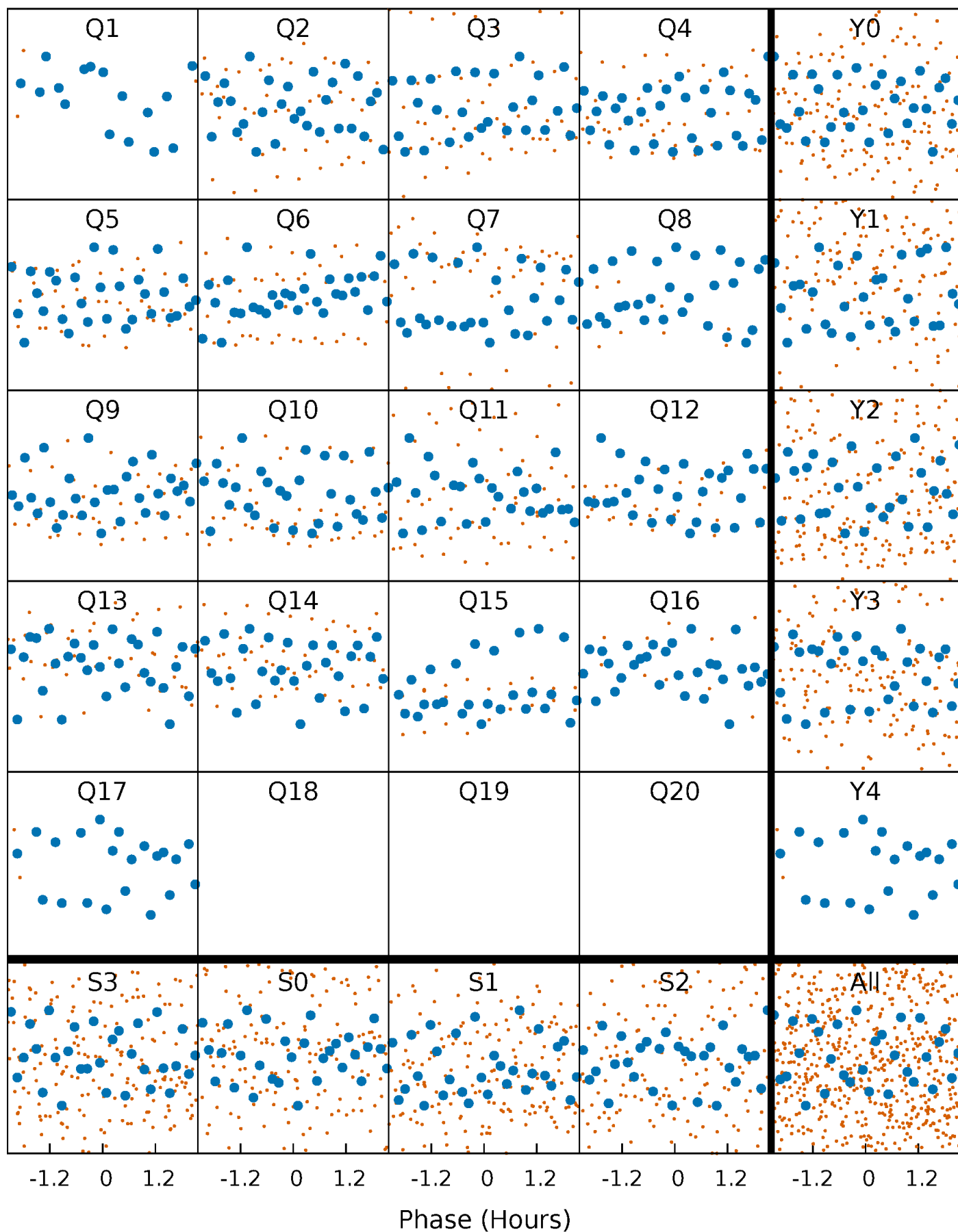


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



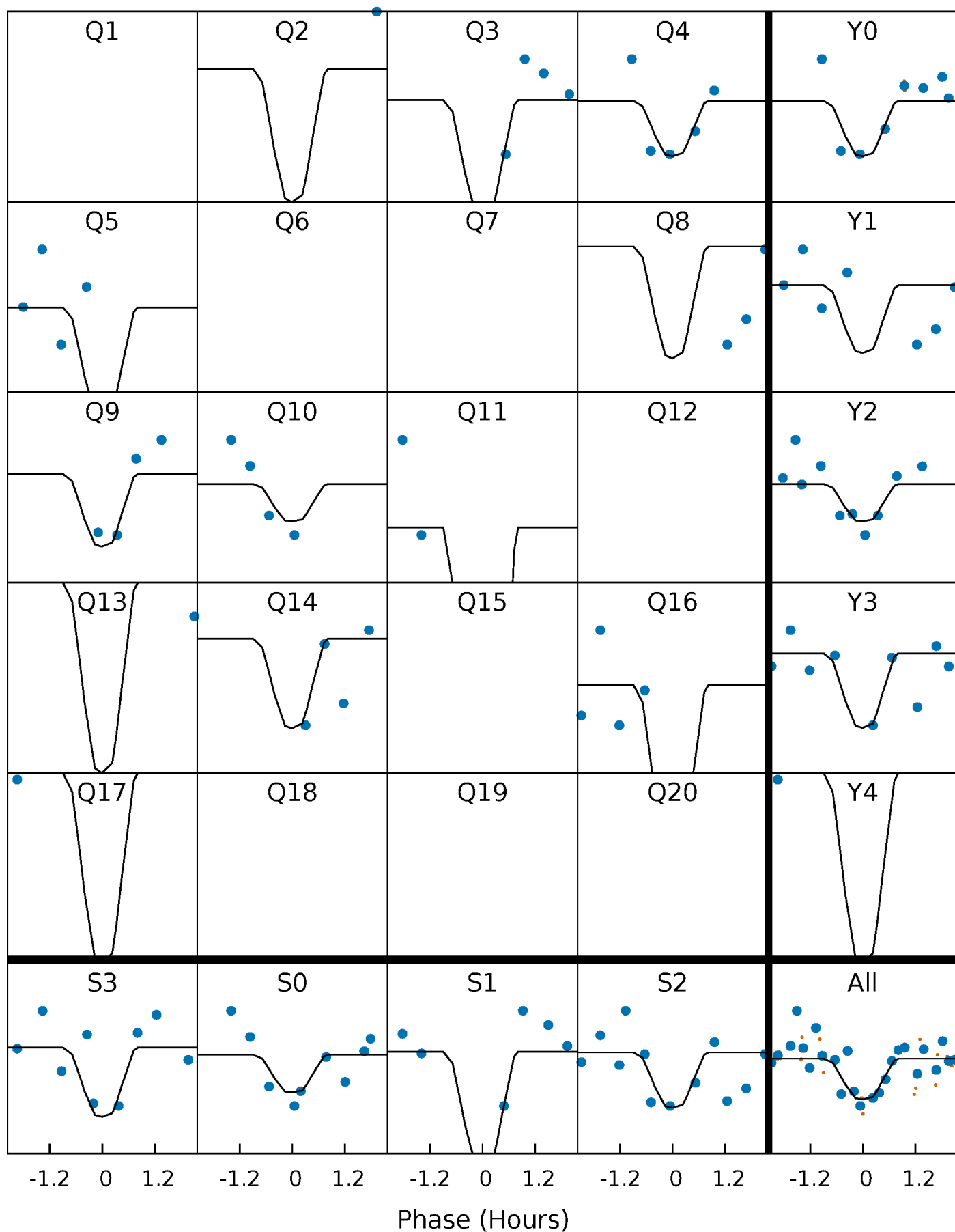
PDC Quarter-Phased Transit Curves

TCE 007433279-02 P= 15.413098 Days $T_0=141.232603$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007433279-02 P= 15.413098 Days $T_0=141.232603$ (BKJD)

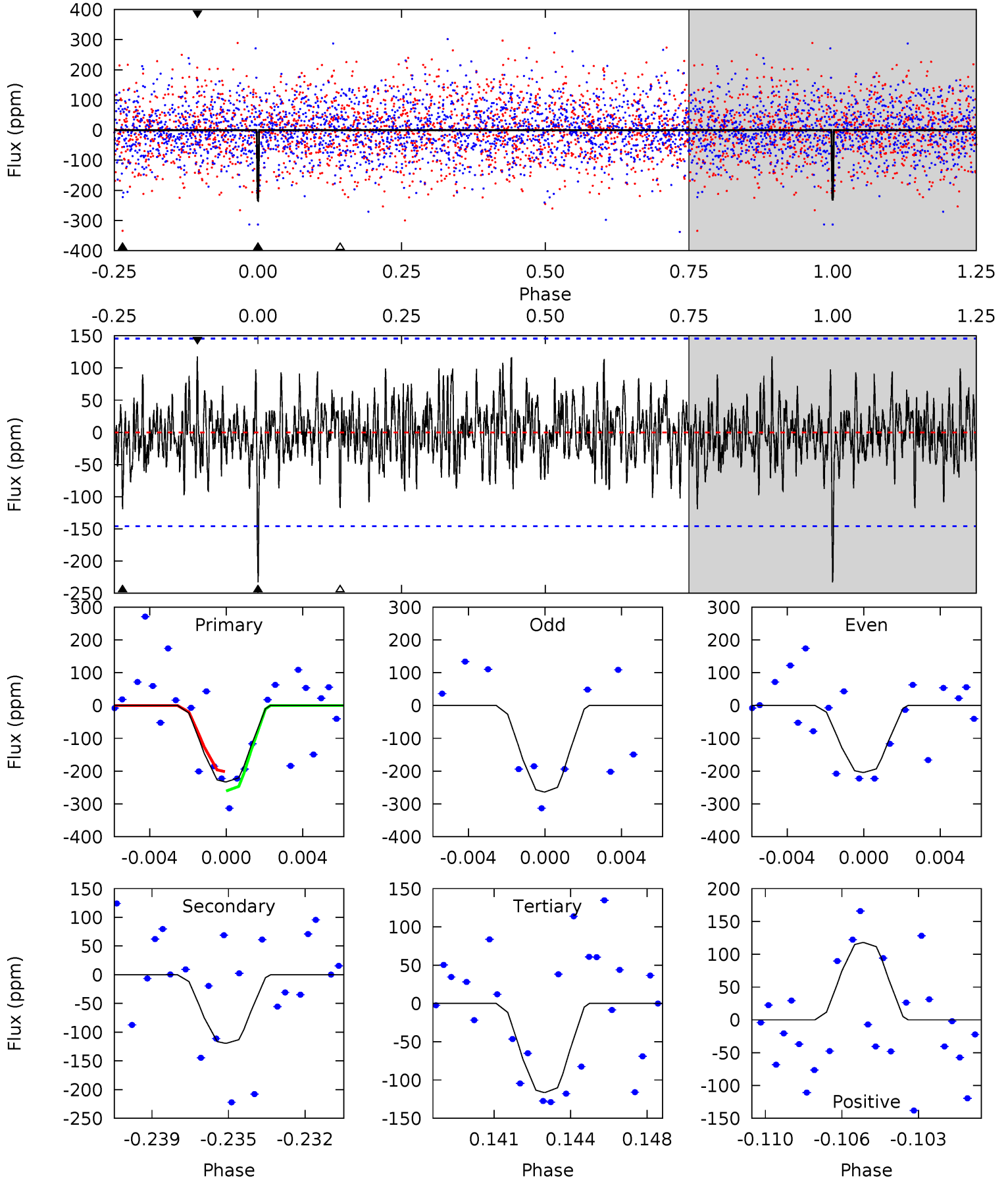


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007433279-02, P = 15.413098 Days, E = 125.819505 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.31	4.26	4.15	4.21	5.21	2.89	1.35	4.16	4.11	0.11	0.06	1.08	1.05	0.34	1.07



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007433279

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6428^{+181}_{-227}	$3.987^{+0.343}_{-0.147}$	$-0.220^{+0.300}_{-0.300}$	$1.848^{+0.527}_{-0.644}$	$1.211^{+0.201}_{-0.201}$	$0.270^{+0.713}_{-0.115}$
	+3%/-4%	+9%/-4%	+136%/-136%	+29%/-35%	+17%/-17%	+264%/-43%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 007433279-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-119 ± 28	$5.42^{+5.97}_{-3.60}$	1465^{+111}_{-137}	4173^{+2573}_{-910}	37^{+272}_{-29}
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 $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

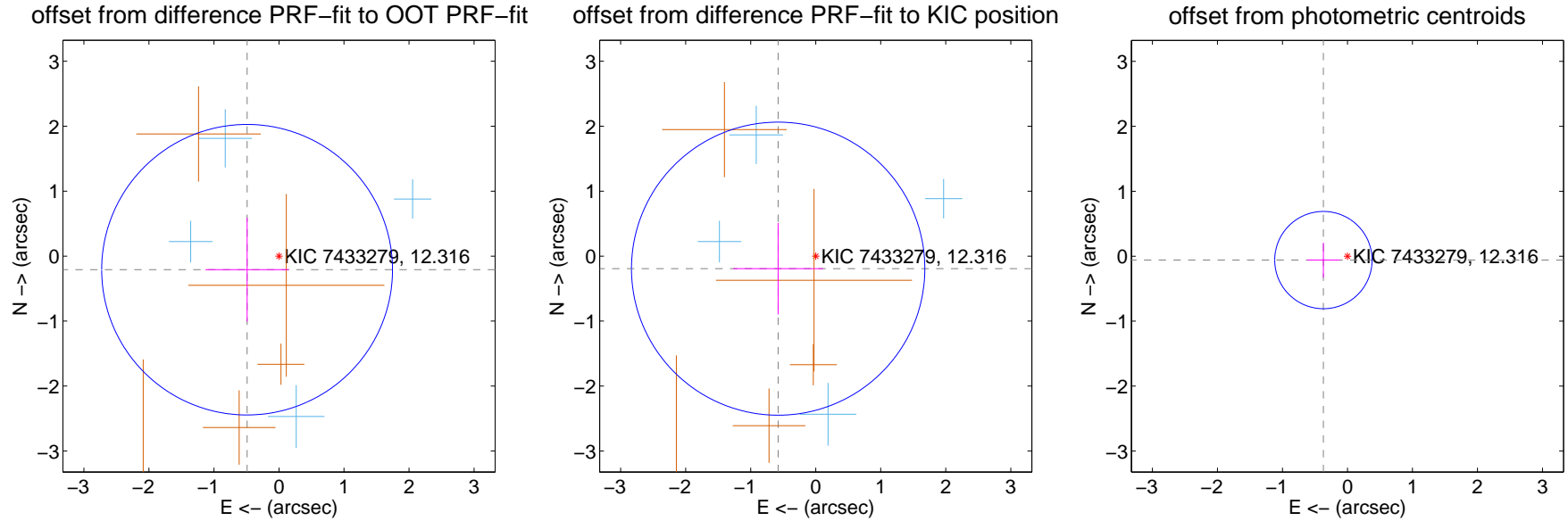
DV Centroid Data

Supplemental centroid analysis for 007433279-02. Kepler magnitude: 12.32. Transit SNR 11.16

There are 4 quarters with good PRF difference image offsets

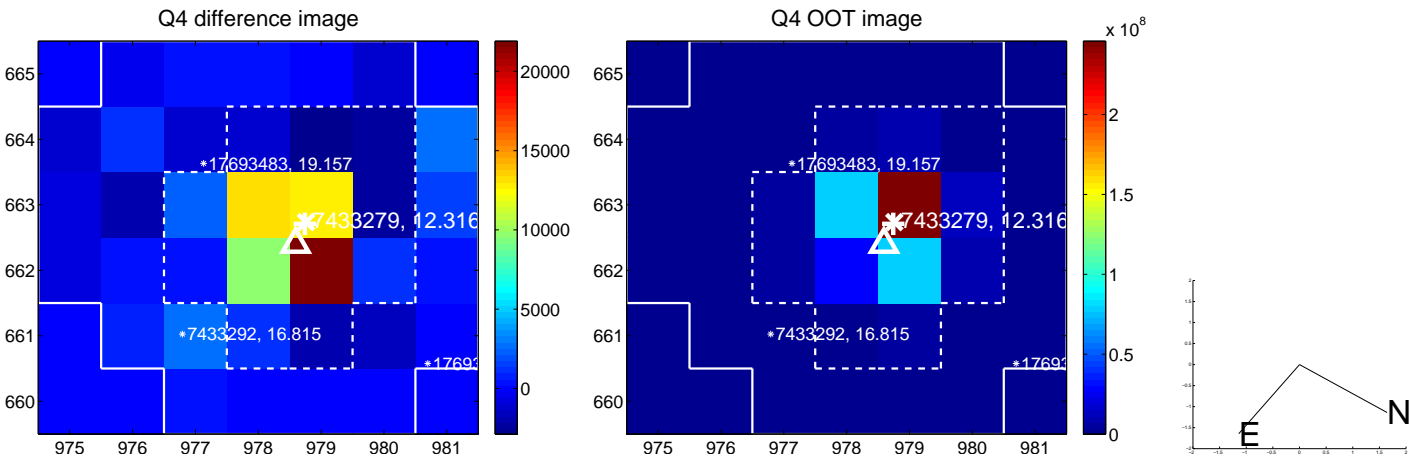
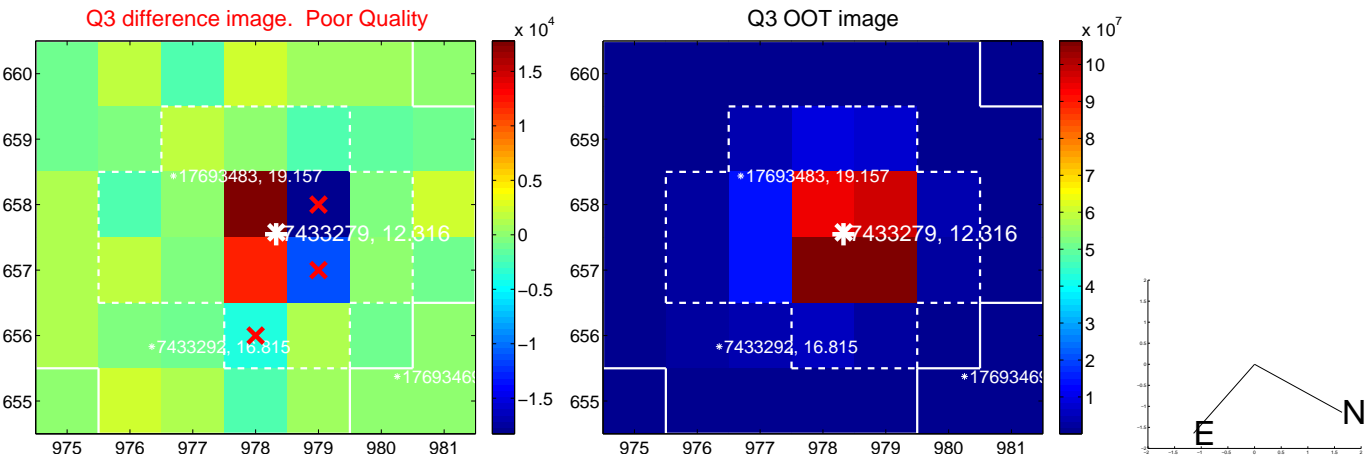
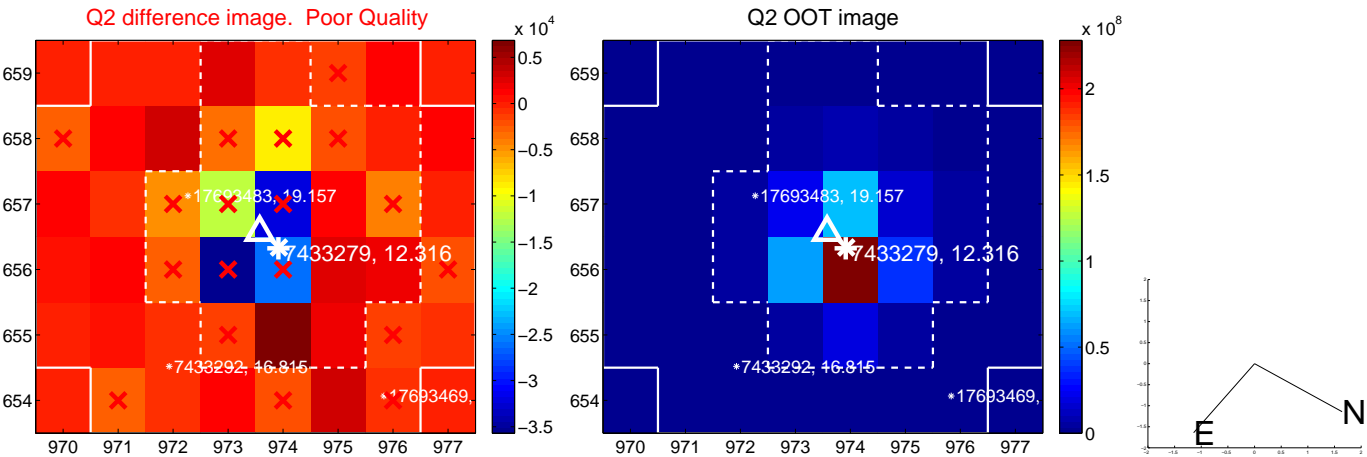
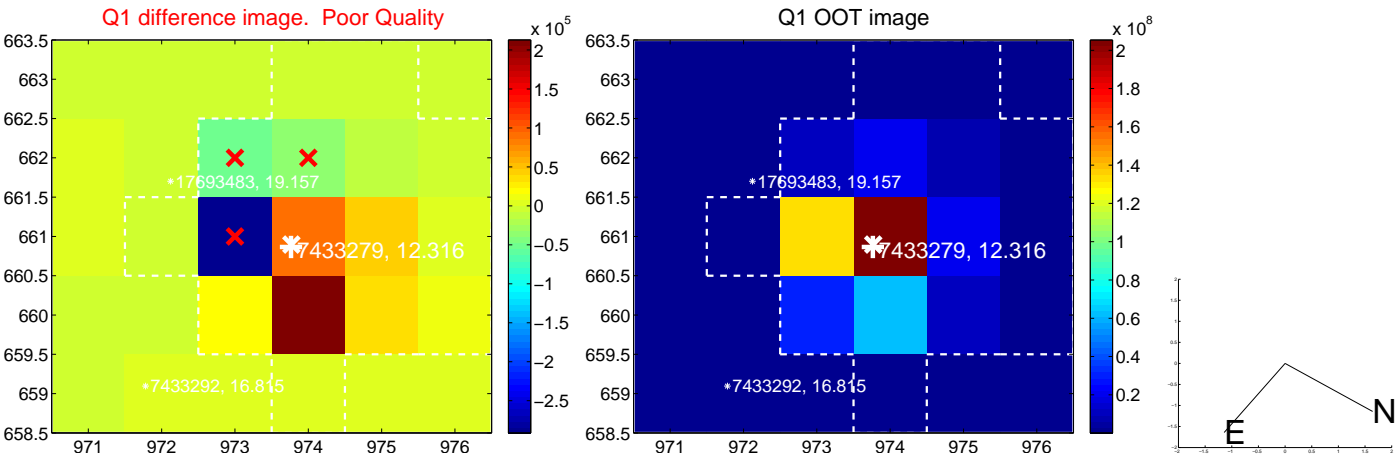
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.533 ± 0.745	0.72	0.491 ± 0.643	-0.209 ± 0.800
PRF-fit source offset from KIC position	0.609 ± 0.752	0.81	0.578 ± 0.691	-0.193 ± 0.704
photometric centroid source offset	0.37 ± 0.25	1.50	0.37 ± 0.25	-0.06 ± 0.27

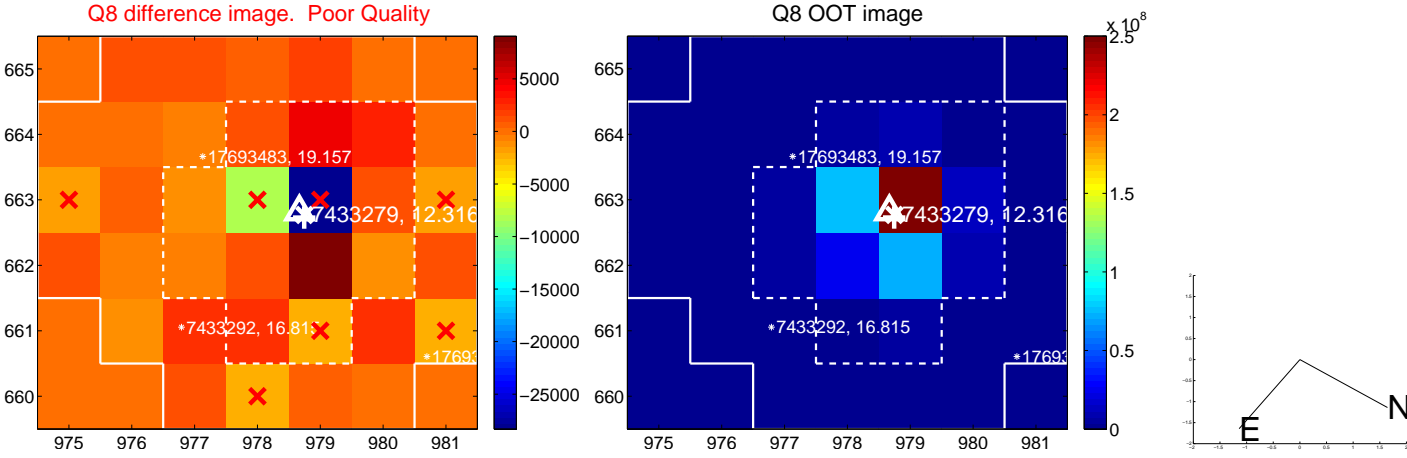
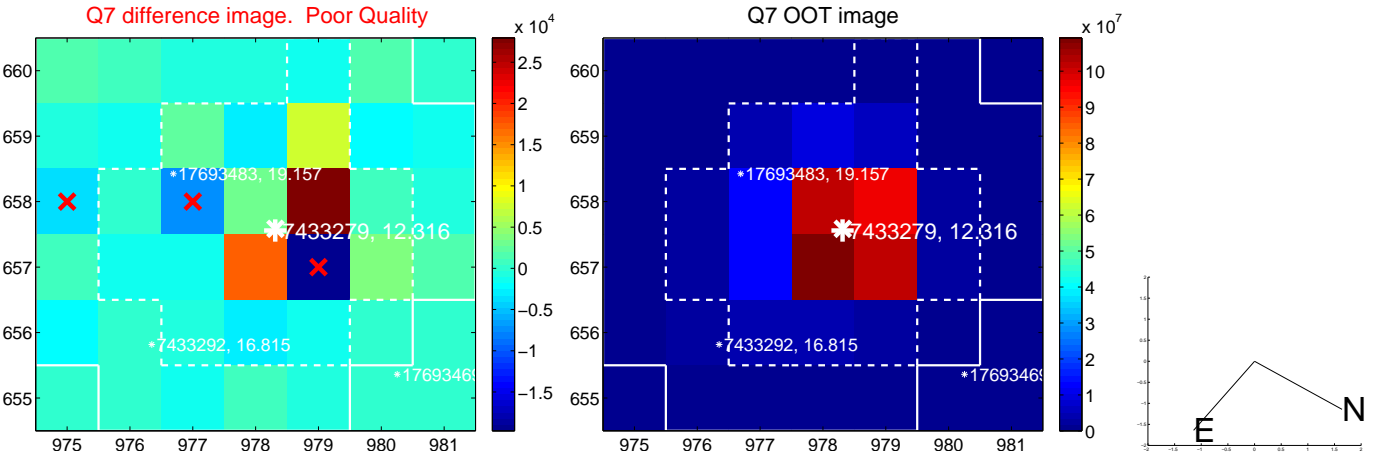
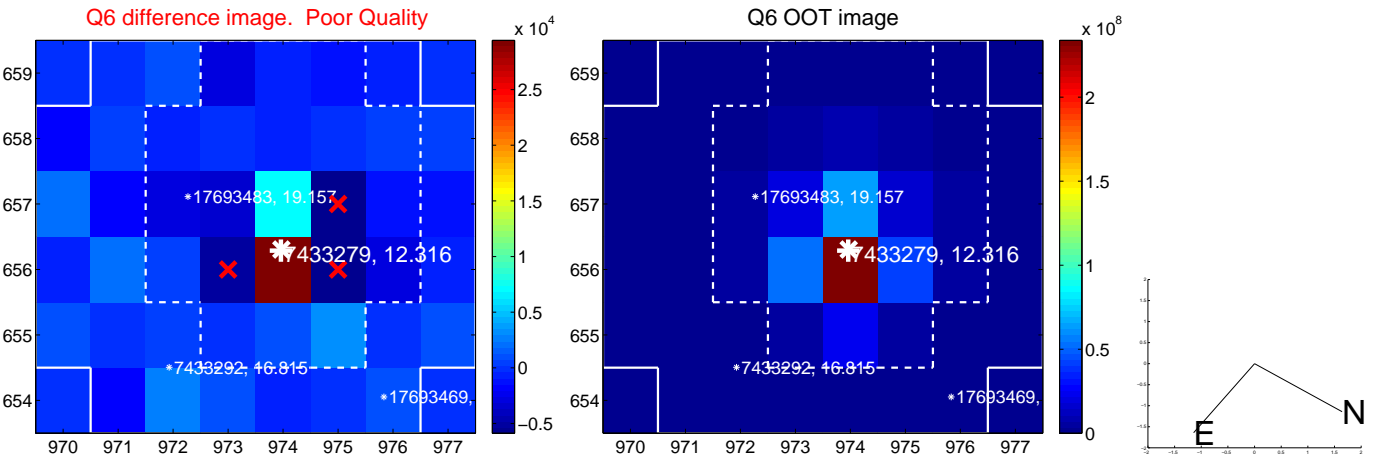
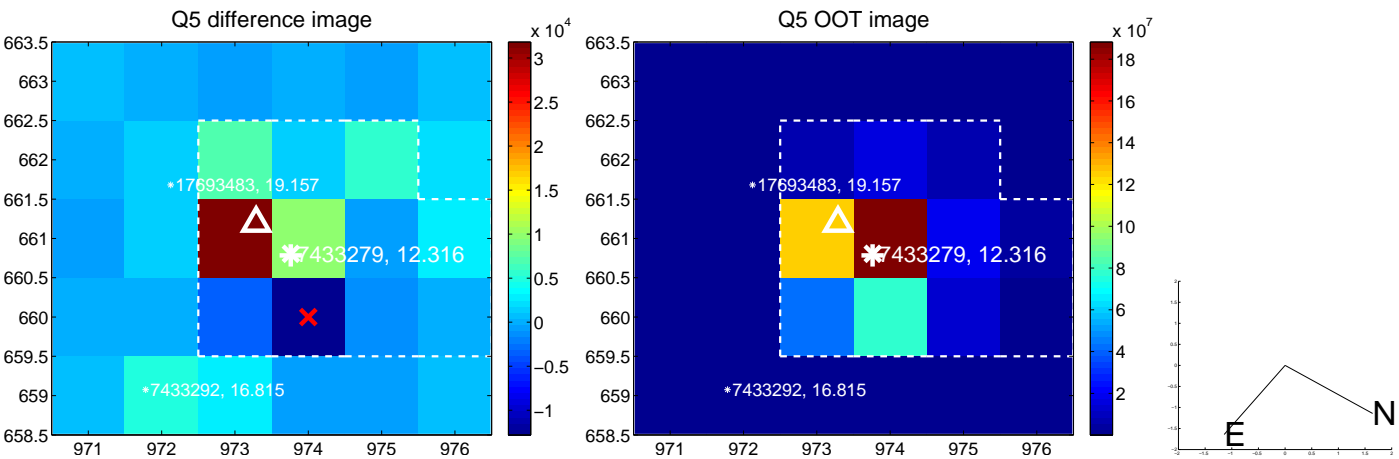


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

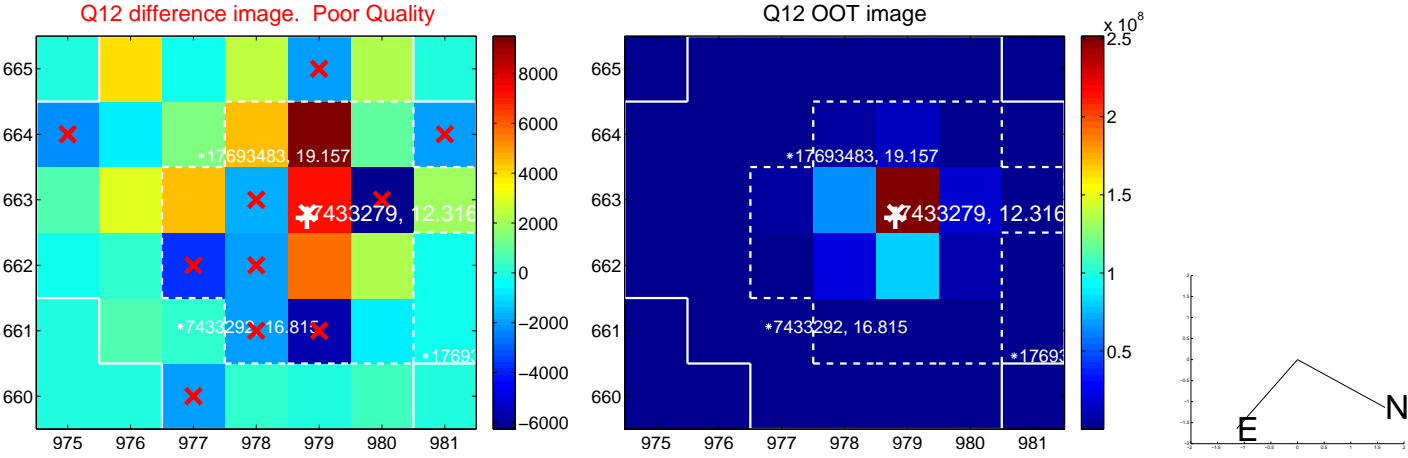
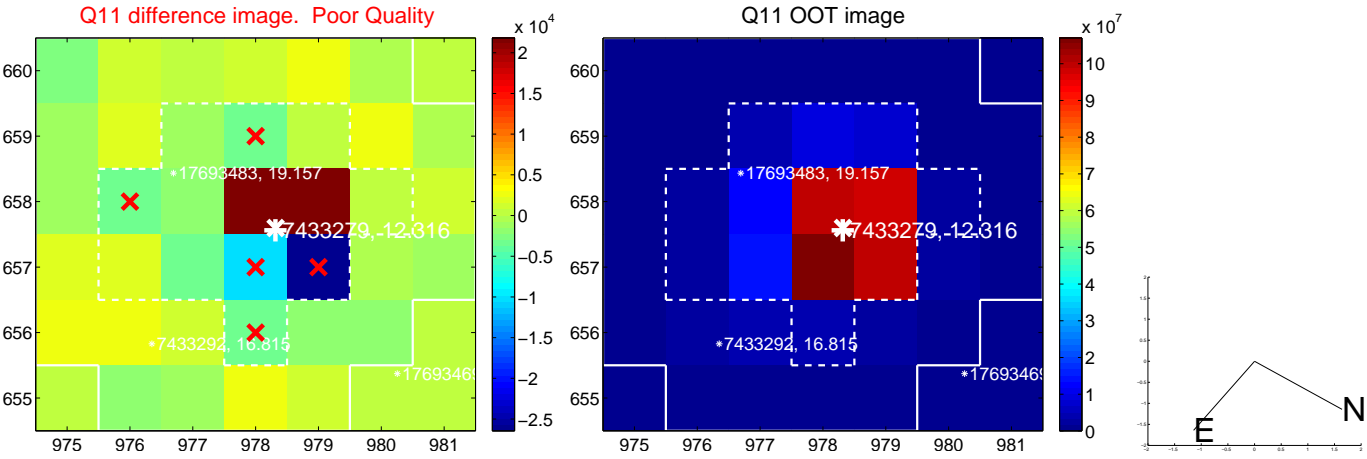
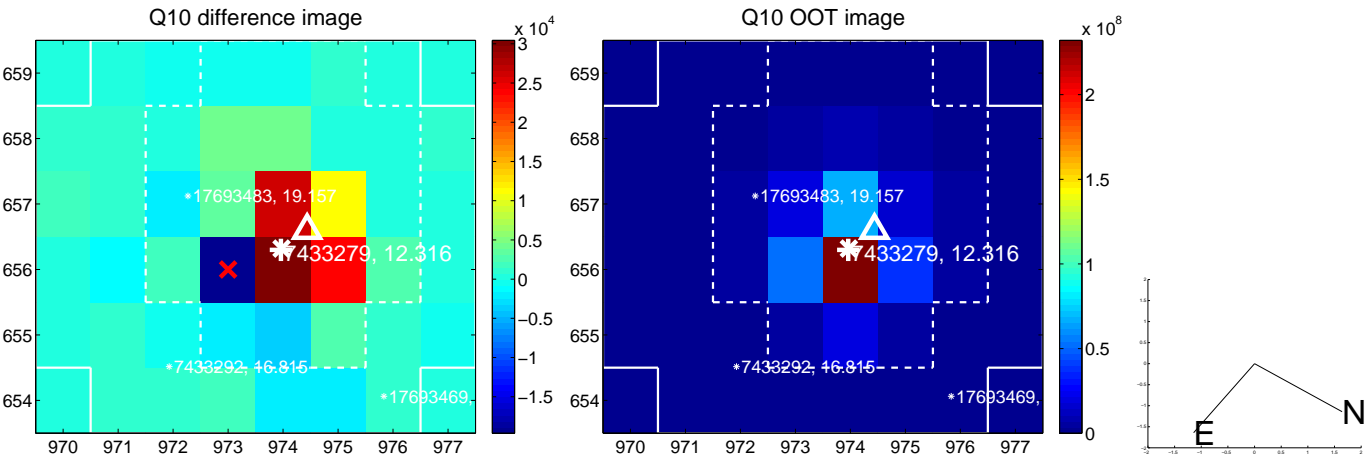
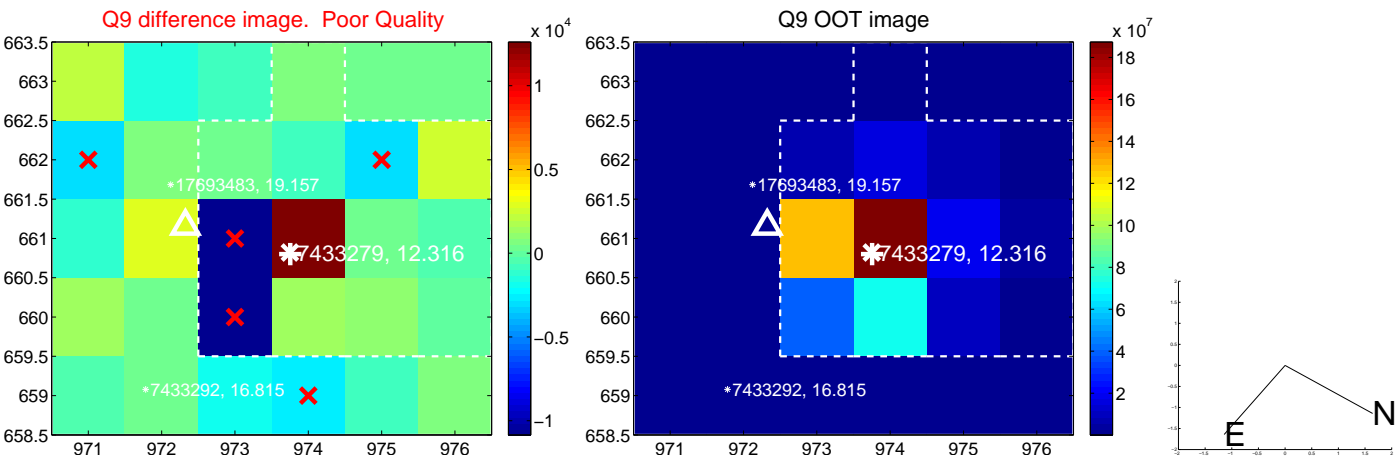
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



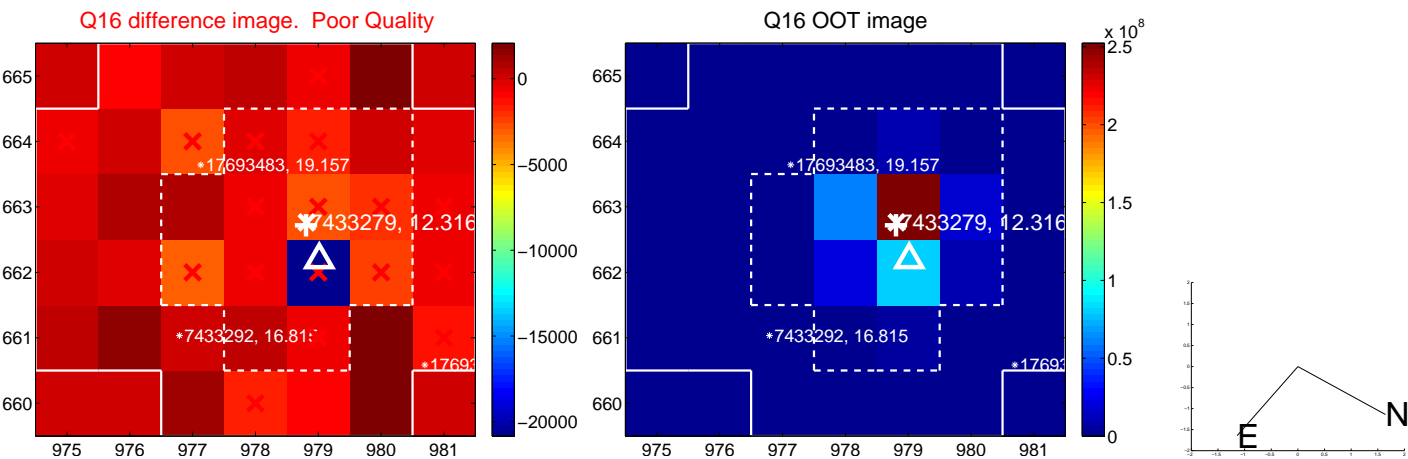
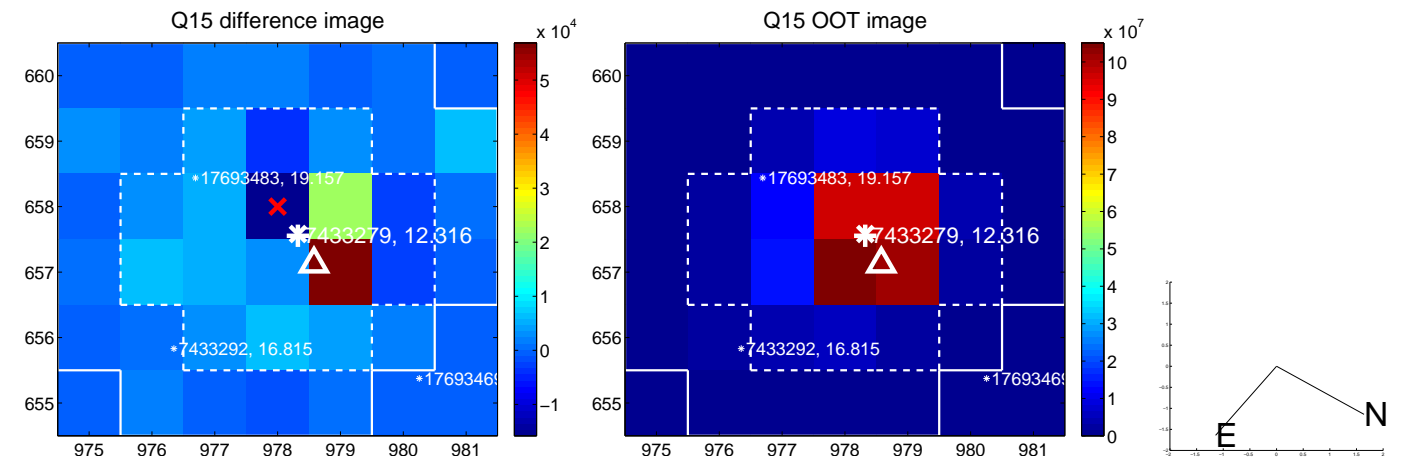
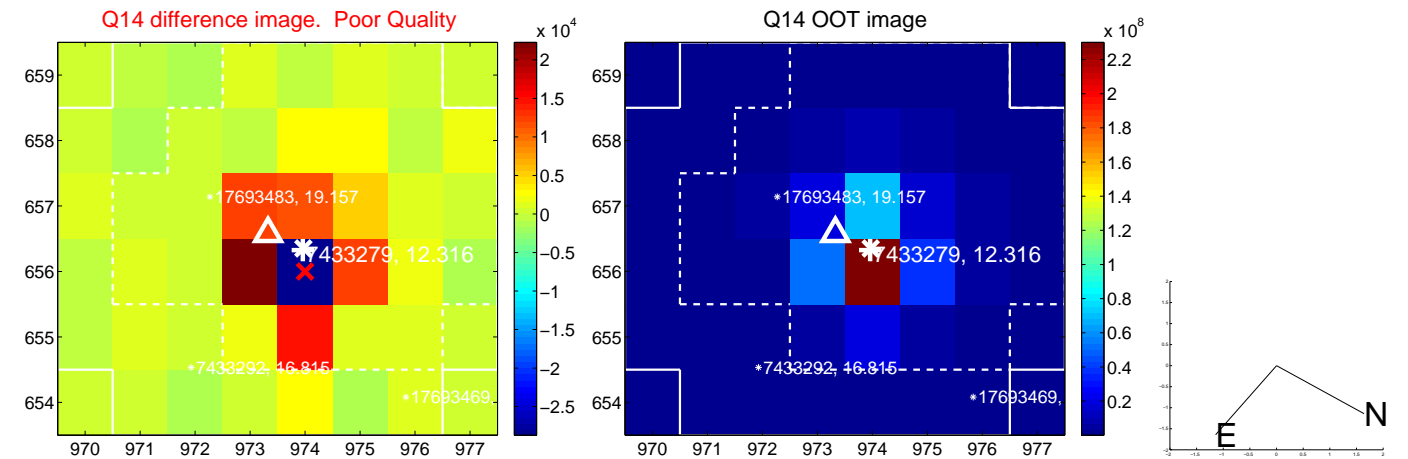
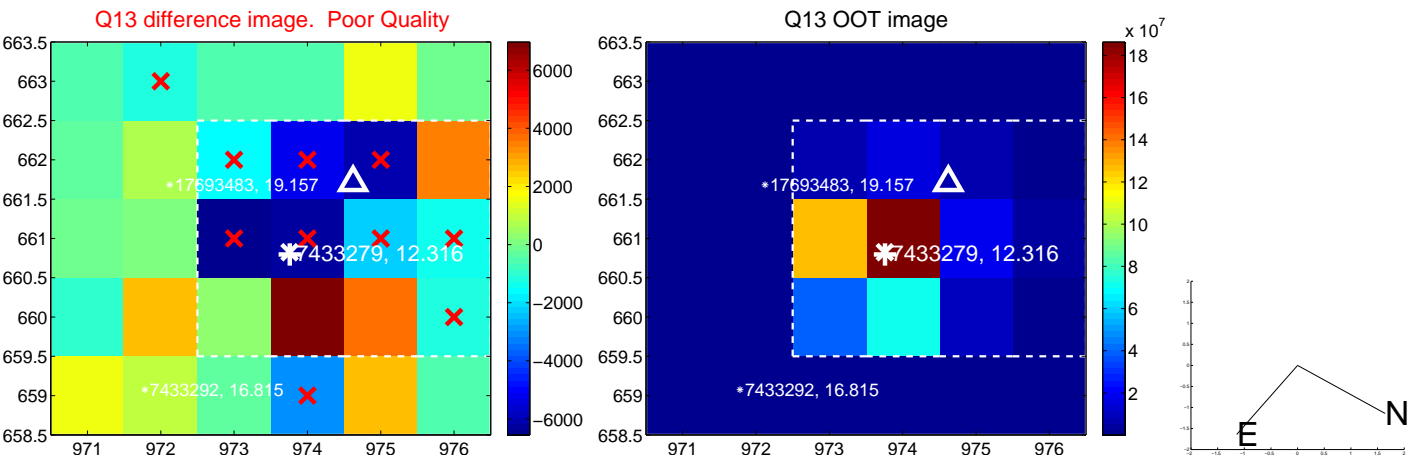
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



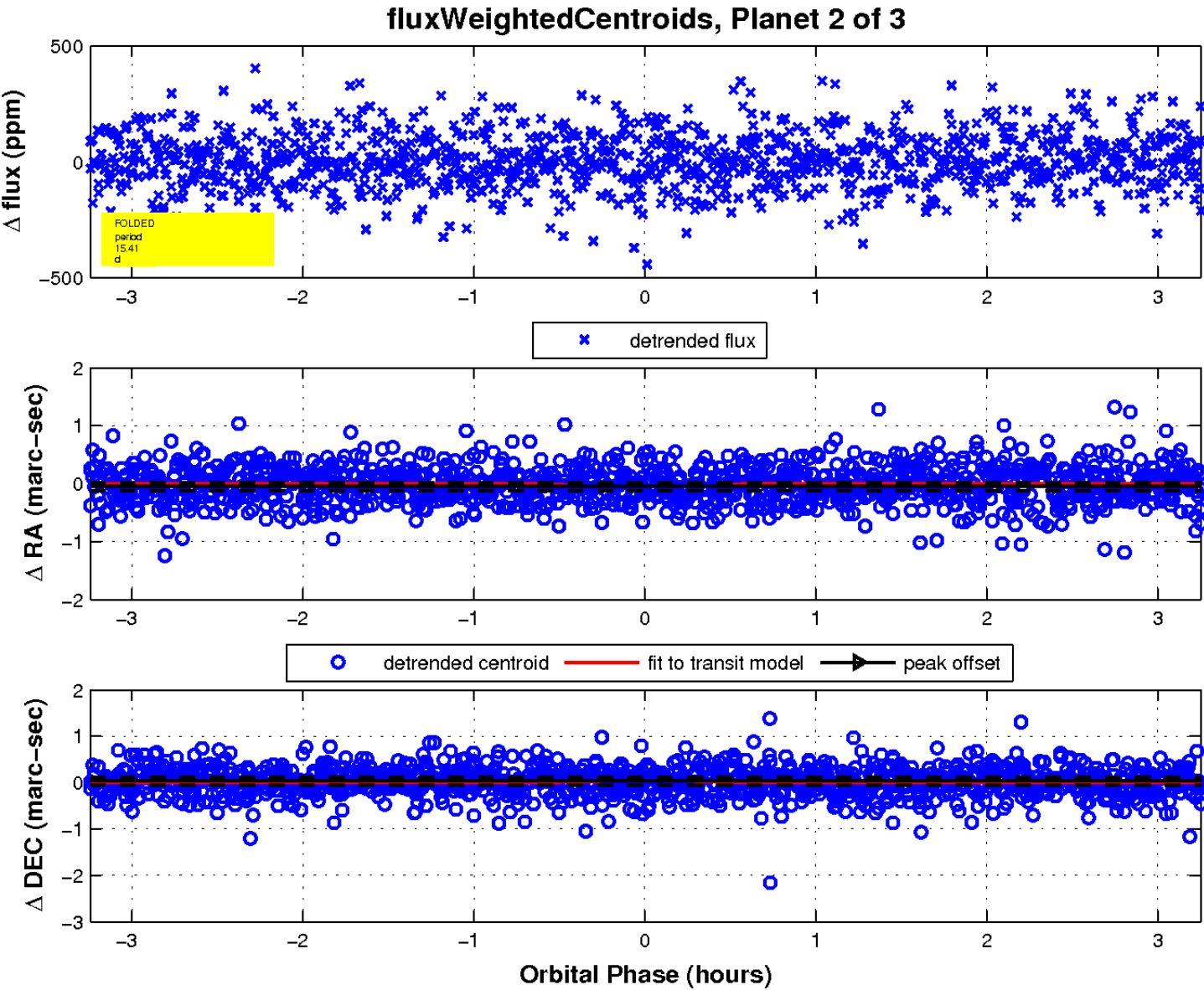
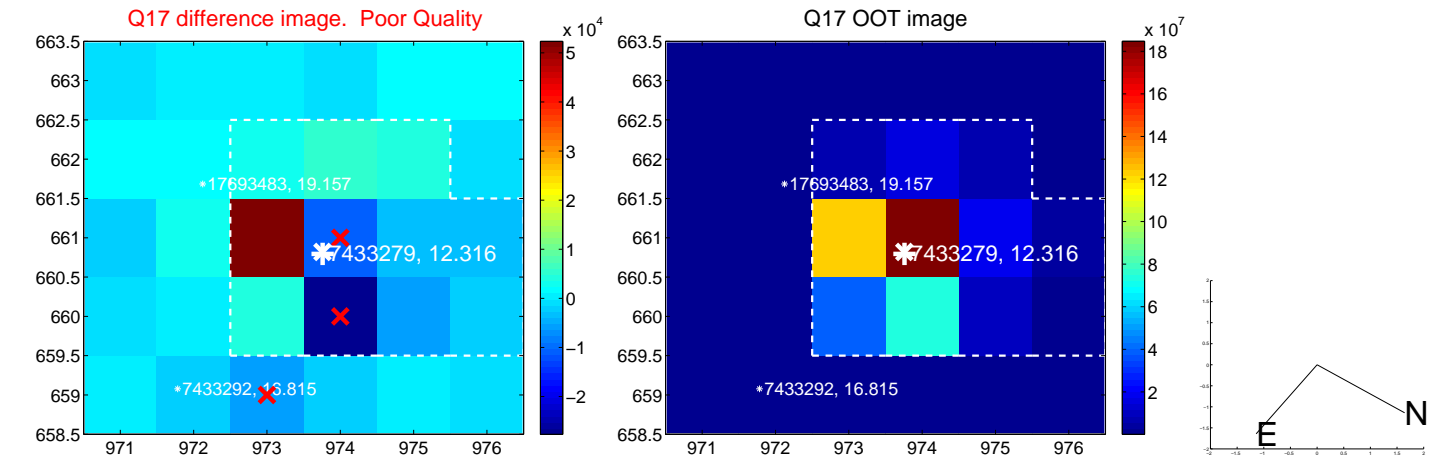
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



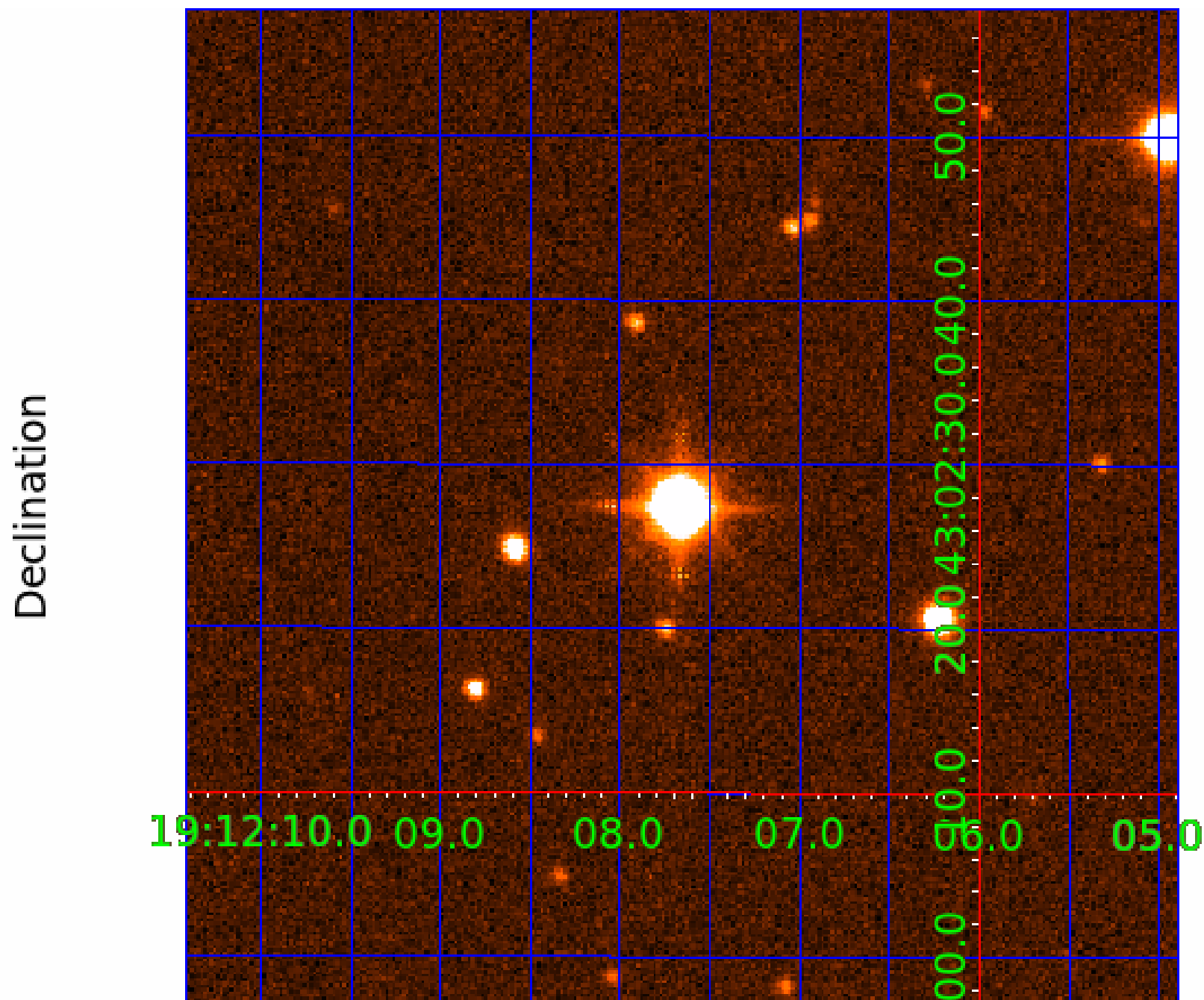
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 007433279

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})
007433279-01	OBS	No	1.966398	131.861122	1.9	14.813	8.1	0.9	1.85	6428	0.28	4876.45
007433279-02	OBS	No	15.413098	141.232603	230.0	1.085	13.4	11.2	1.85	6428	3.24	313.19
007433279-03	OBS	No	19.286941	133.403171	220.9	0.897	9.8	10.4	1.85	6428	2.87	232.26

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007433279-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV
007433279-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
007433279-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

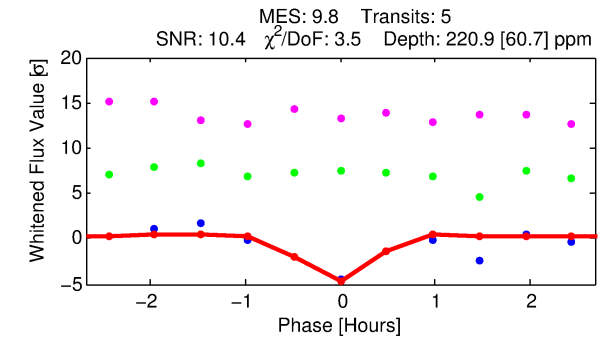
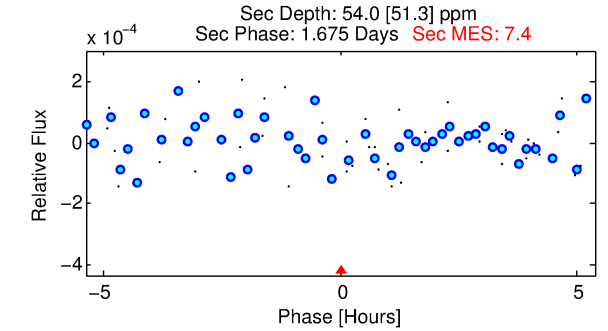
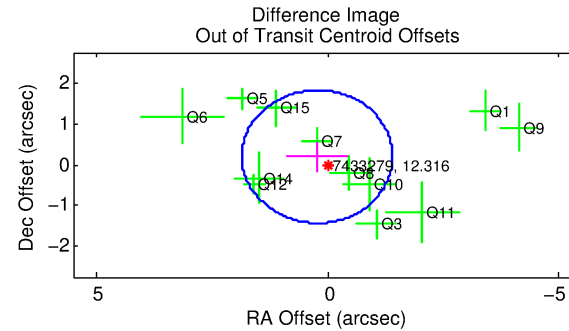
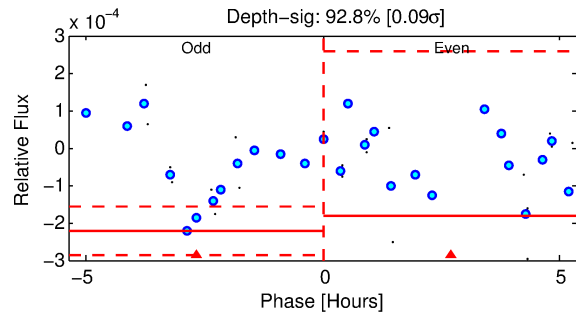
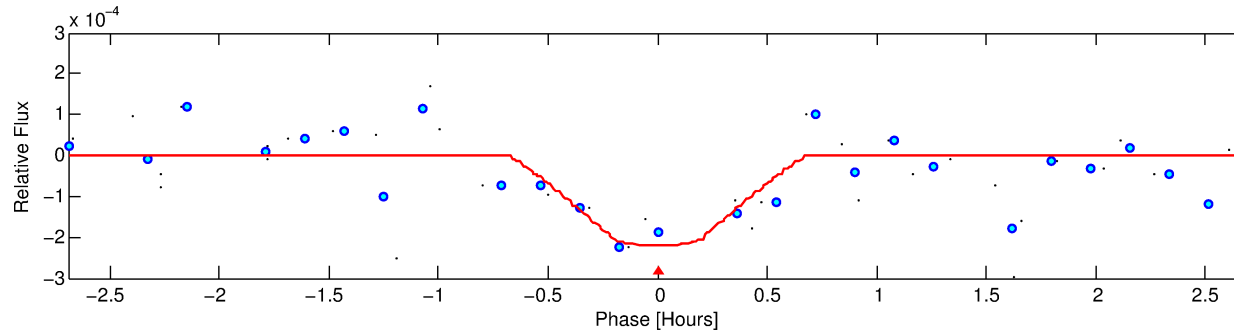
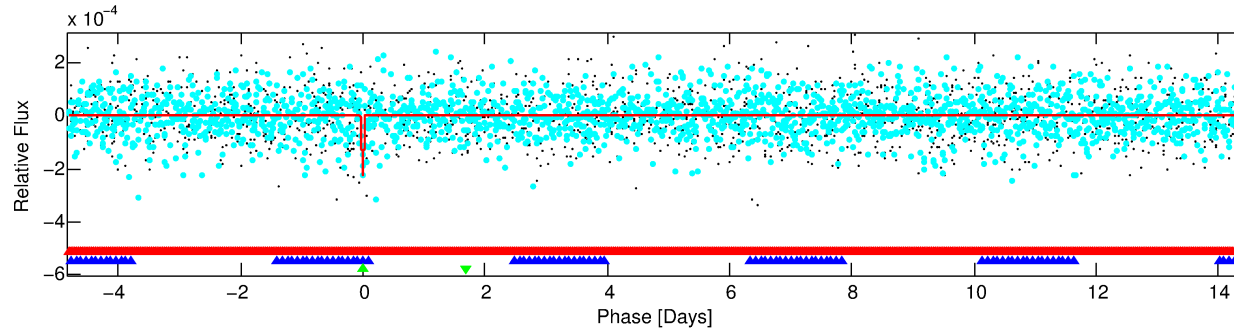
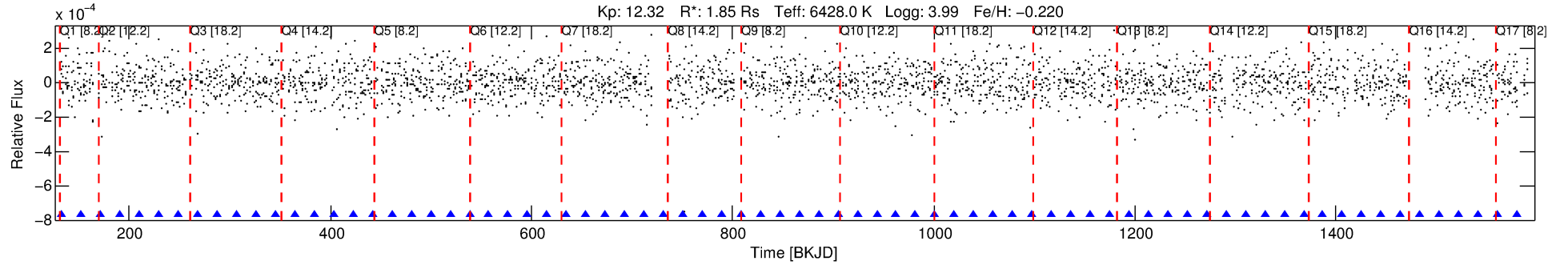
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007433279-03

No Significant Match Found

DV One-Page Summary

KIC: 7433279 Candidate: 3 of 3 Period: 19.287 d



DV Fit Results:

Period = 19.28694 [0.00017] d
Epoch = 133.4032 [0.0061] BKJD
Rp/R* = 0.0142 [0.0200]
a/R* = 144.62 [1033.16]
b = 0.50 [10.78]
Seff = 232.26 [137.64]
Teq = 995 [147] K
Rp = 2.87 [4.15] Re
a = 0.1500 [0.0527] AU
Ag = 81.36 [245.98] [0.33 σ]
Teffp = 4622 [3434] K [1.06 σ]

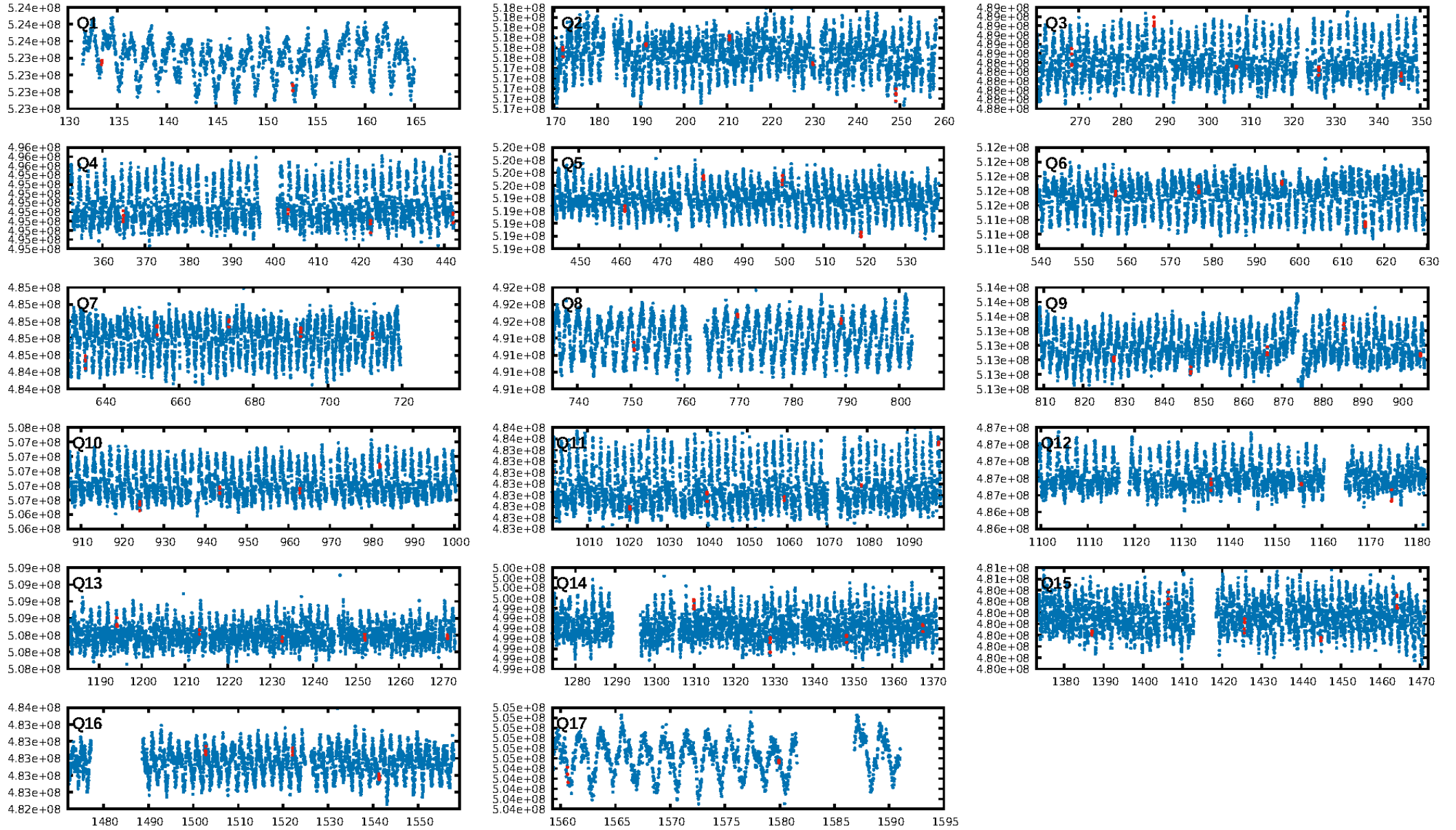
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [66.04 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 91.1%
ModelChiSquareGof-sig: 94.0%
Bootstrap-pfa: 1.23e-07
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 3.03
Centroid-sig: 14.4%
Centroid-so: 0.526 arcsec [1.67 σ]
OotOffset-rm: 0.297 arcsec [0.55 σ]
OotOffset-st: 3/4/2/3 [12]
KicOffset-rm: 0.389 arcsec [0.69 σ]
KicOffset-st: 3/4/2/3 [12]
DiffImageQuality-fgm: 0.58 [7/12]
DiffImageOverlap-fno: 0.88 [15/17]

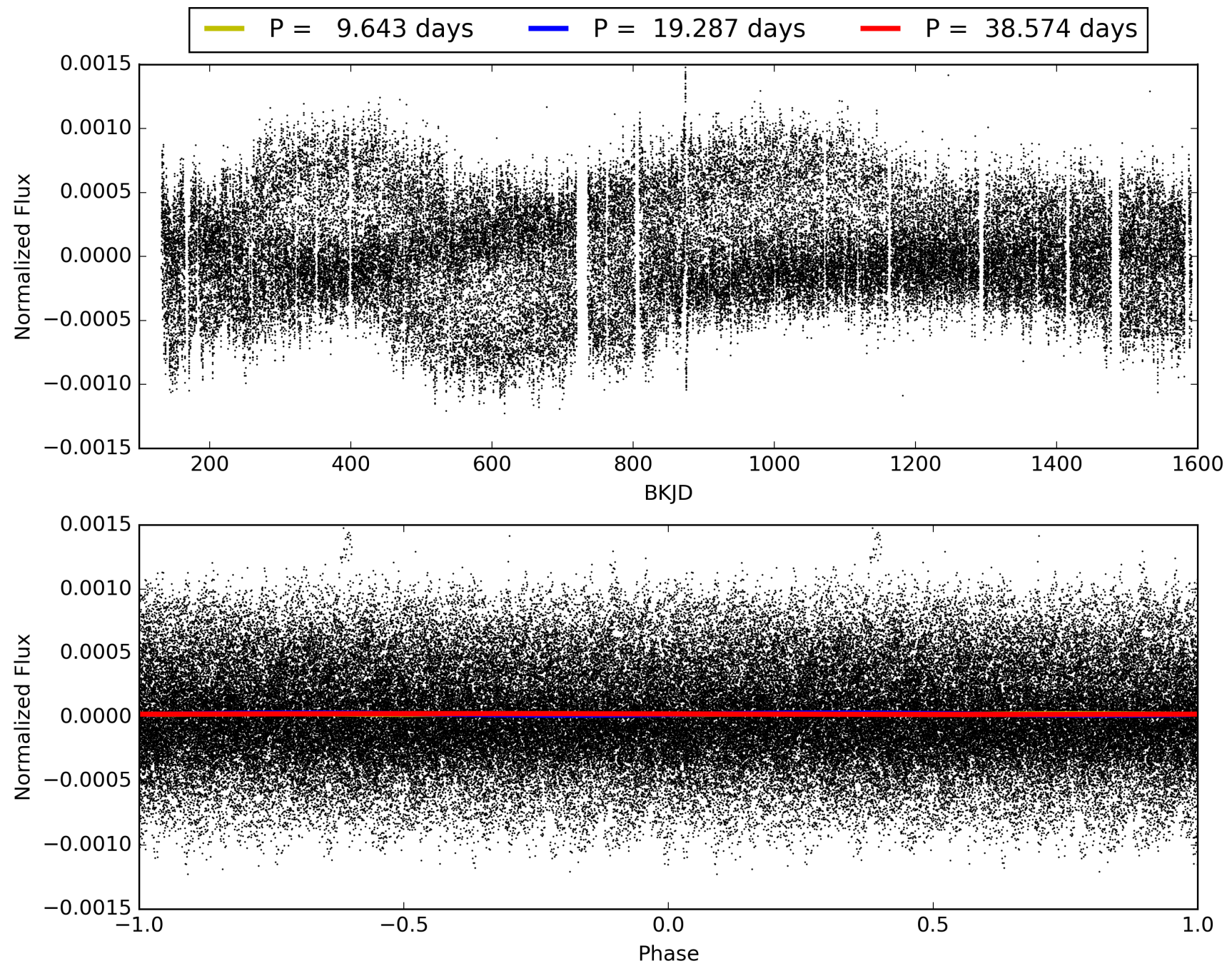
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:09:14 Z

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

TCE 007433279-03, PDC Light Curves

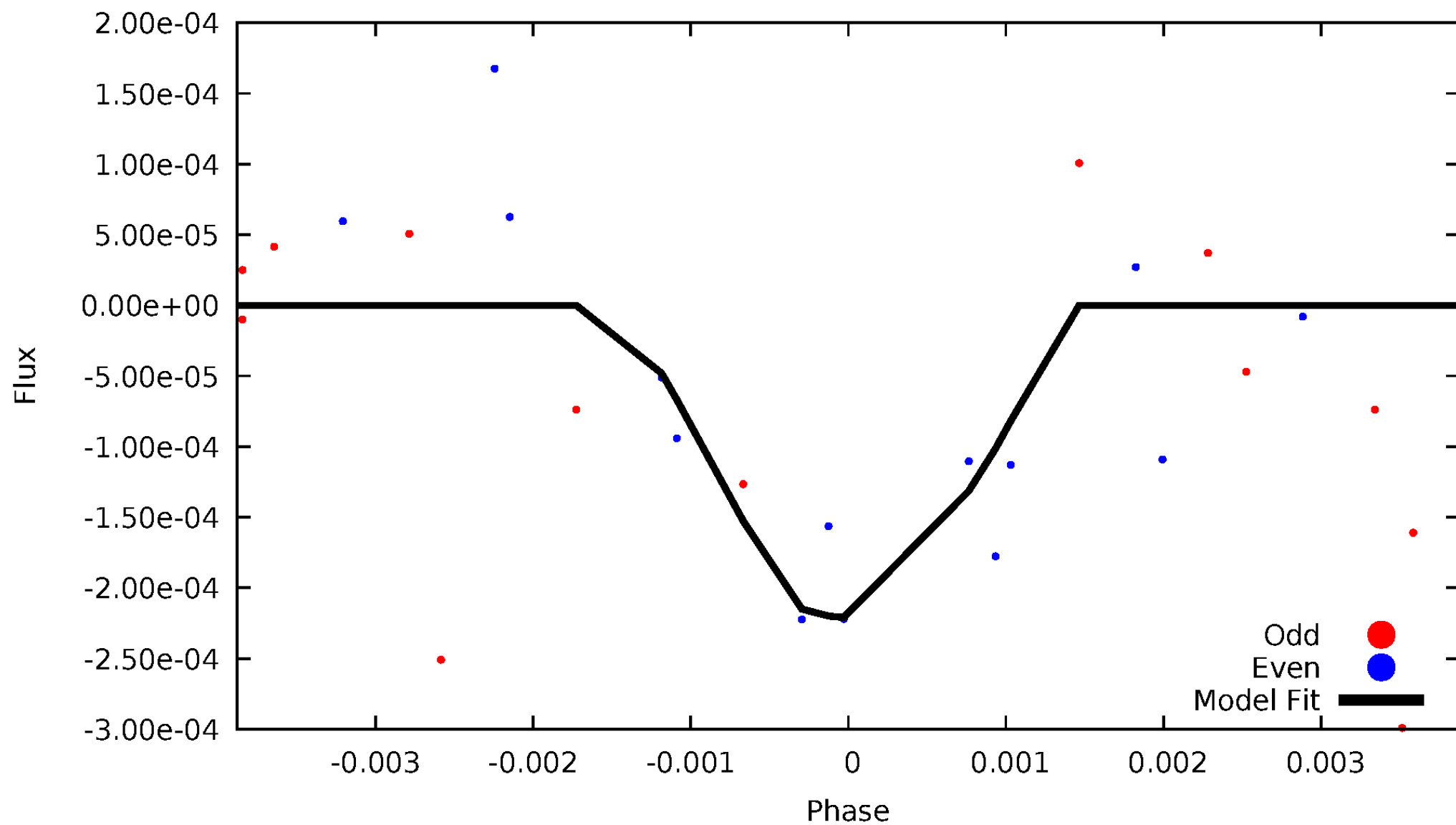


TCE 007433279-03



DV Odd/Even

TCE 007433279-03

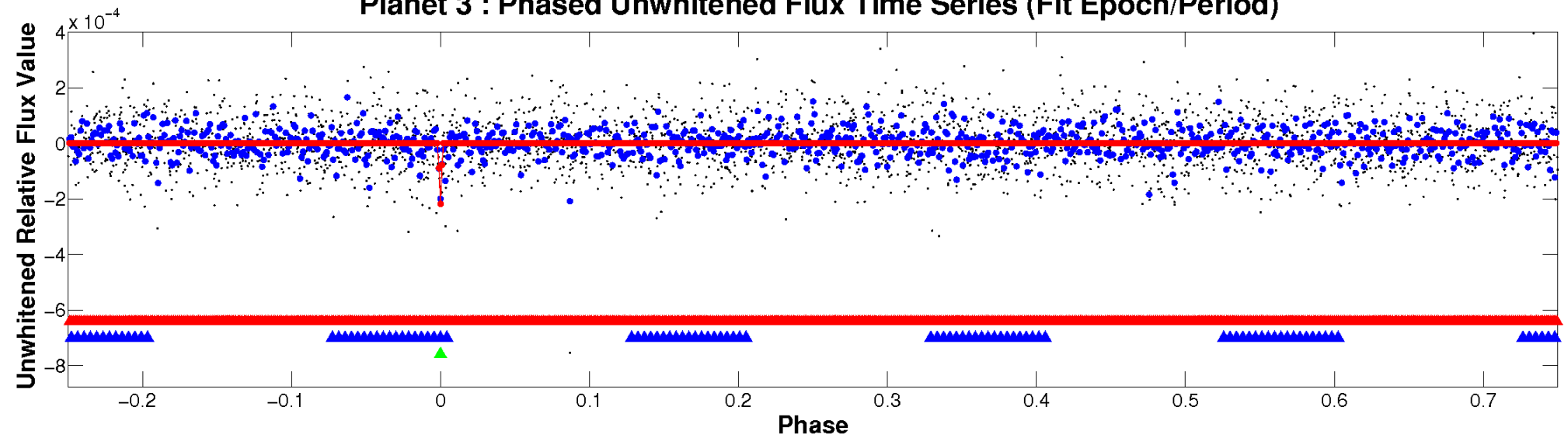


ALT Odd/Even

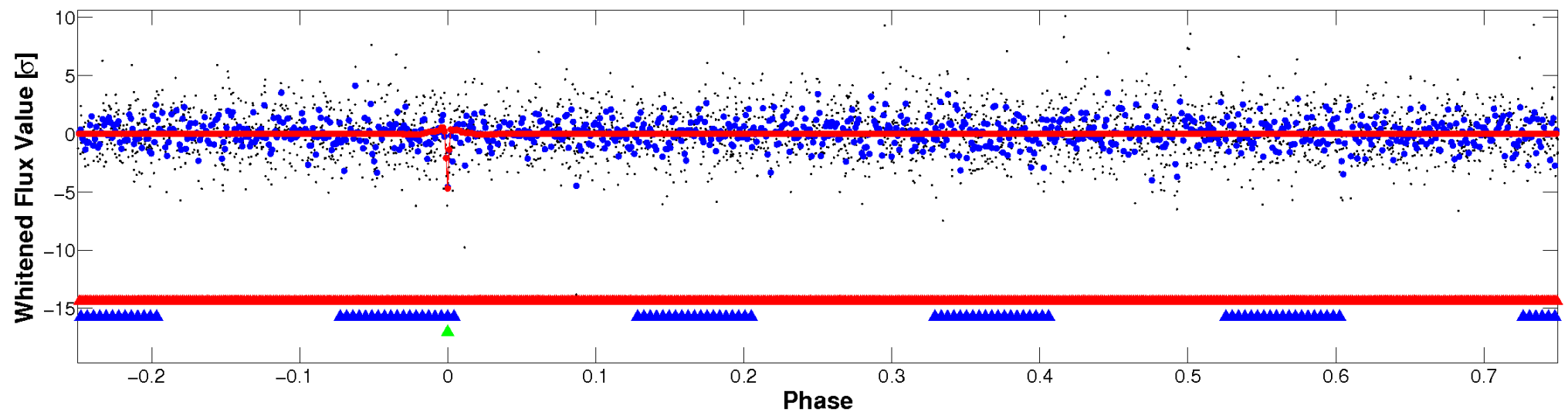
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

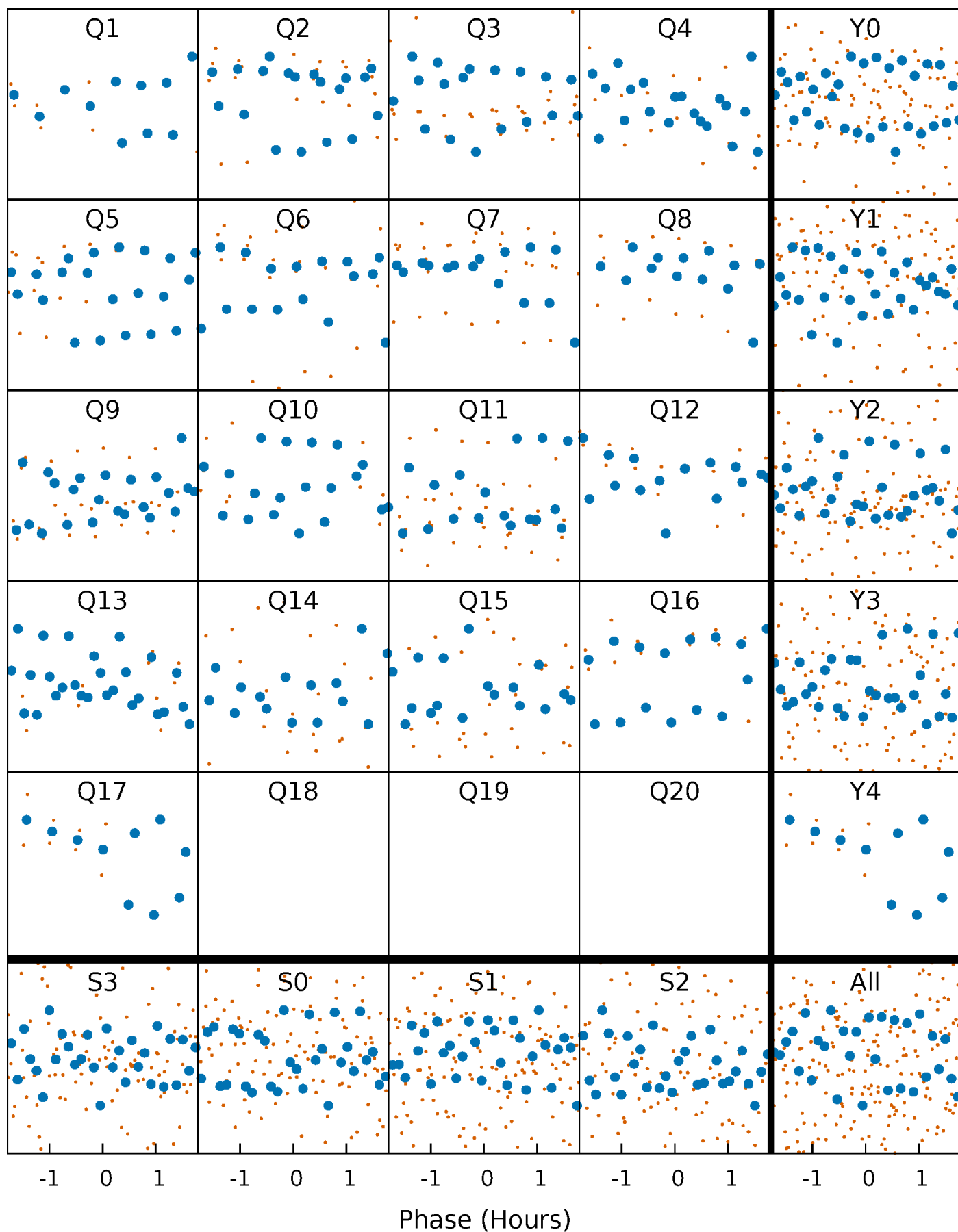


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



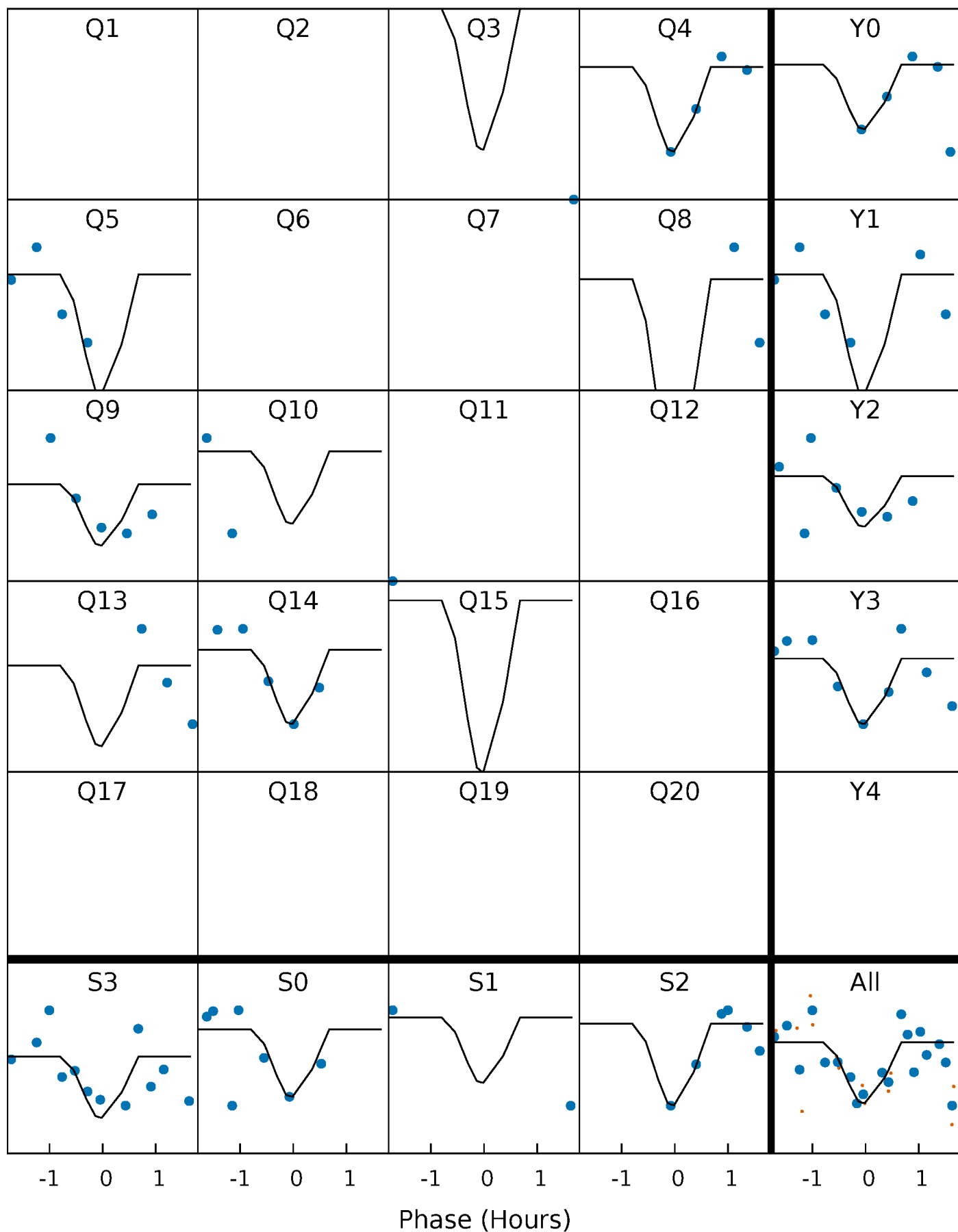
PDC Quarter-Phased Transit Curves

TCE 007433279-03 P= 19.286941 Days $T_0=133.403171$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007433279-03 P= 19.286941 Days $T_0=133.403171$ (BKJD)

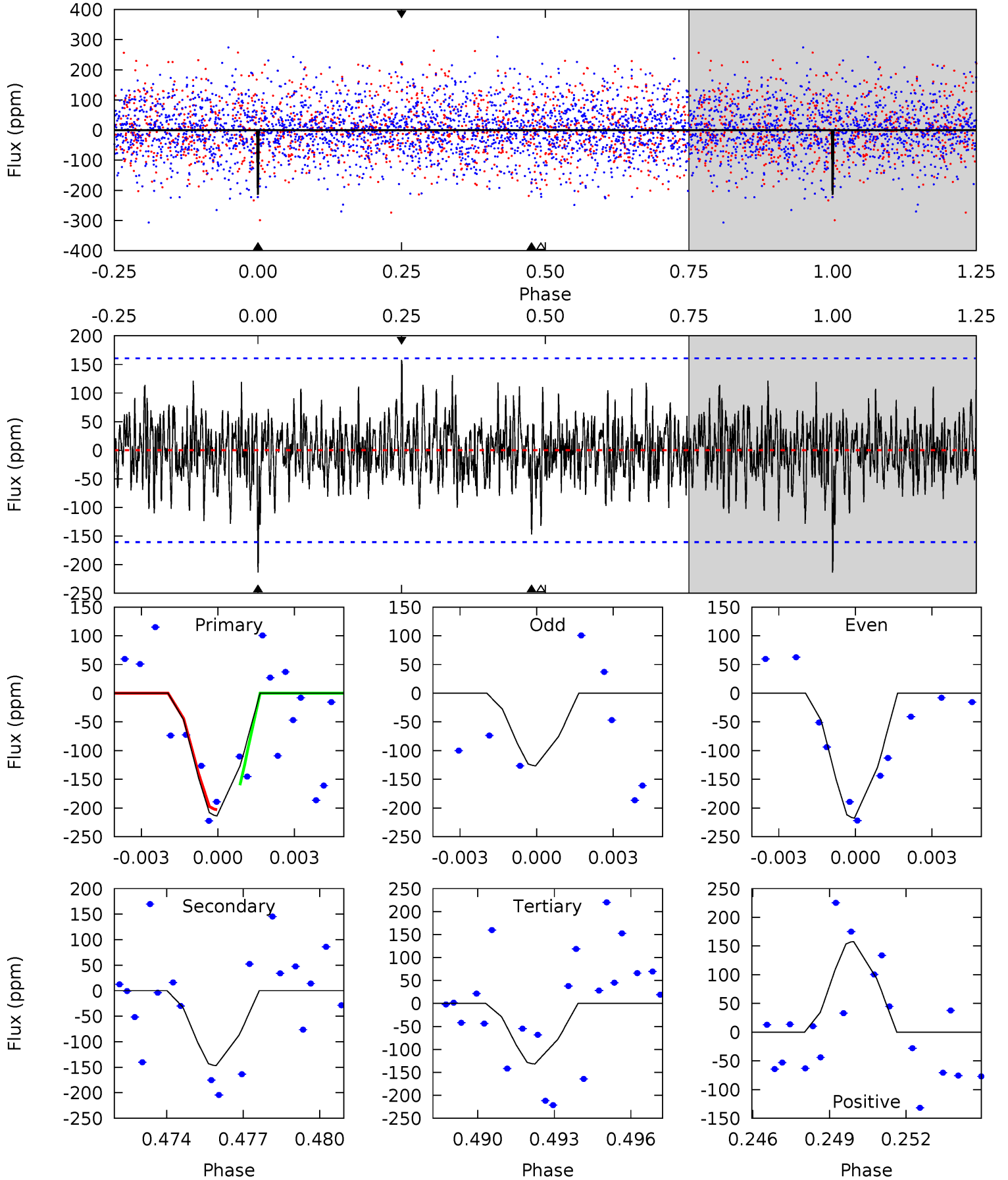


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007433279-03, P = 19.286941 Days, E = 114.116230 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.03	4.82	4.33	5.19	5.28	3.01	1.37	2.70	1.84	0.49	-0.36	0.99	1.00	0.42	0.69



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007433279

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6428^{+181}_{-227}	$3.987^{+0.343}_{-0.147}$	$-0.220^{+0.300}_{-0.300}$	$1.848^{+0.527}_{-0.644}$	$1.211^{+0.201}_{-0.201}$	$0.270^{+0.713}_{-0.115}$
	+3%/-4%	+9%/-4%	+136%/-136%	+29%/-35%	+17%/-17%	+264%/-43%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 007433279-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-147 ± 30	$3.68^{+3.75}_{-2.37}$	1353^{+112}_{-136}	5085^{+3749}_{-1201}	132^{+934}_{-100}
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 $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

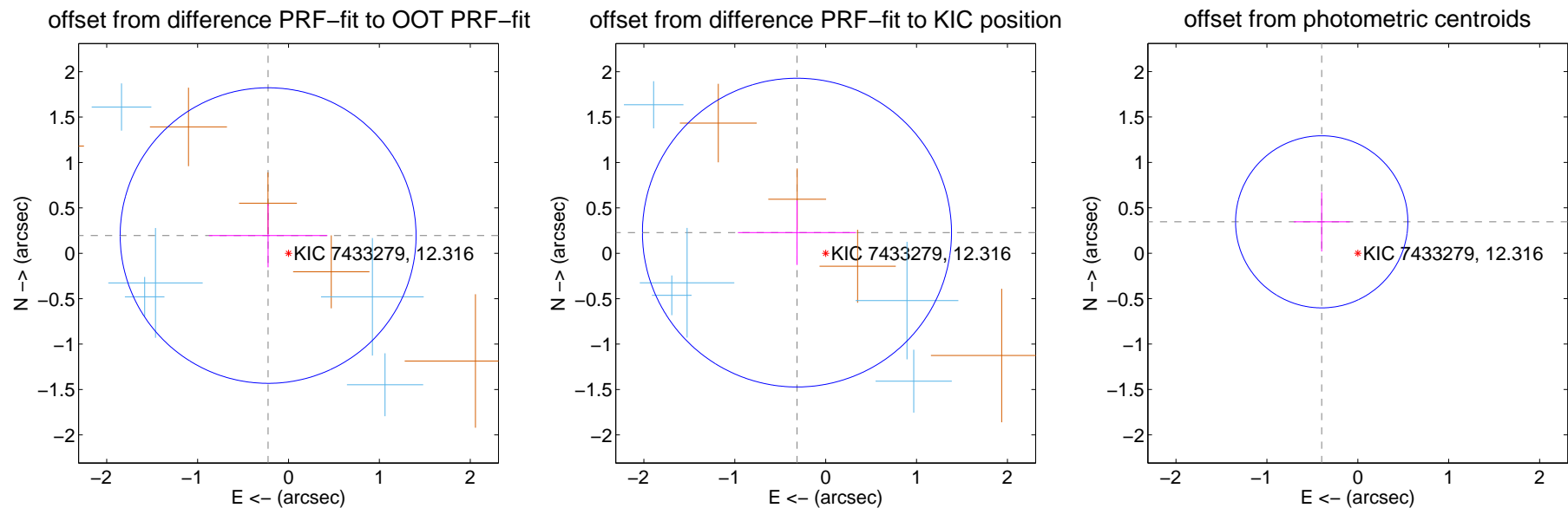
DV Centroid Data

Supplemental centroid analysis for 007433279-03. Kepler magnitude: 12.32. Transit SNR 10.38

There are 7 quarters with good PRF difference image offsets

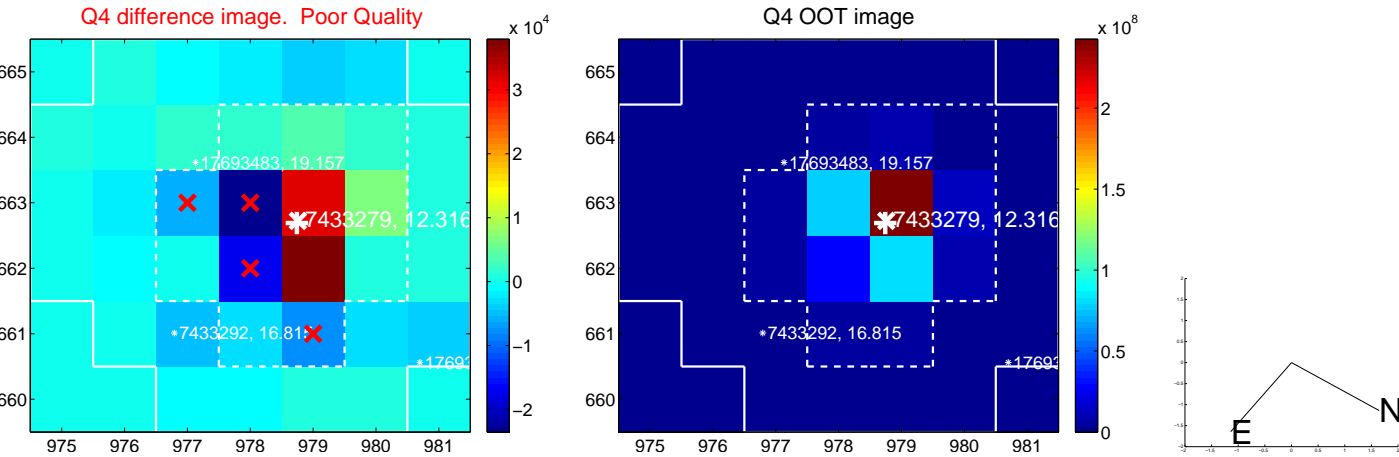
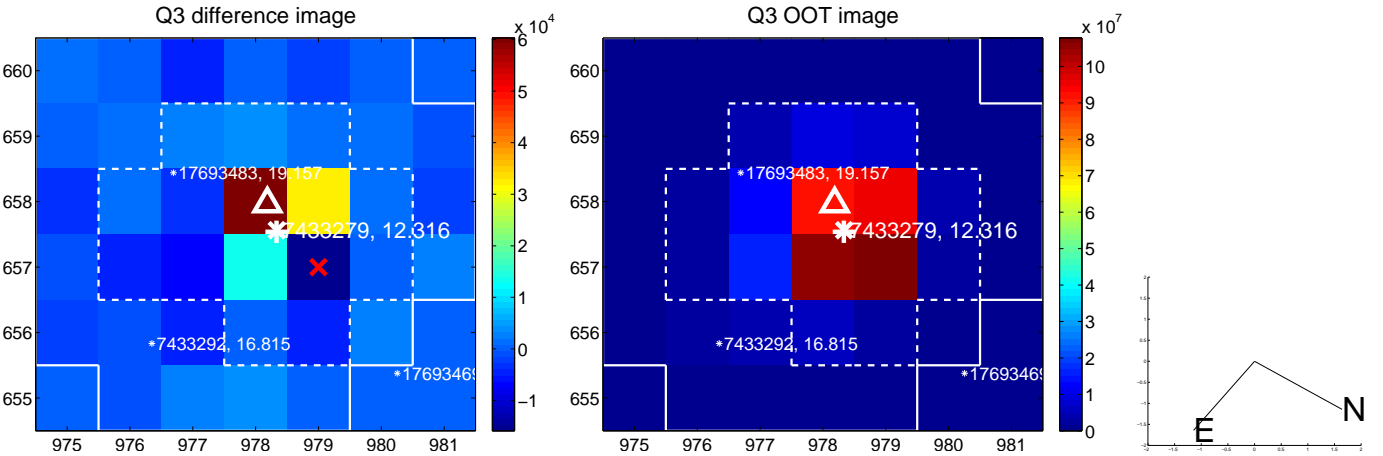
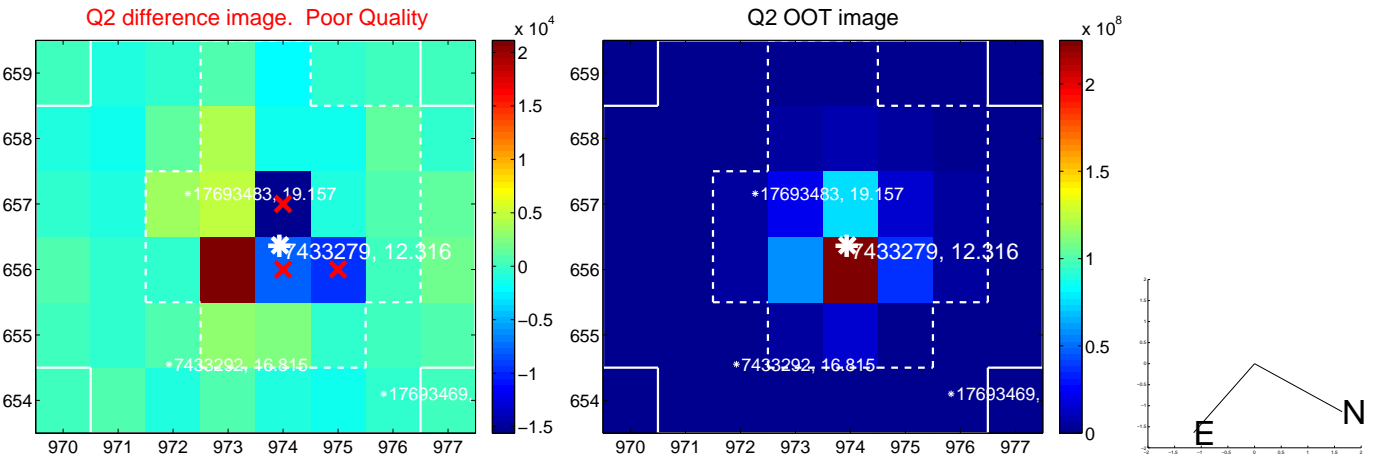
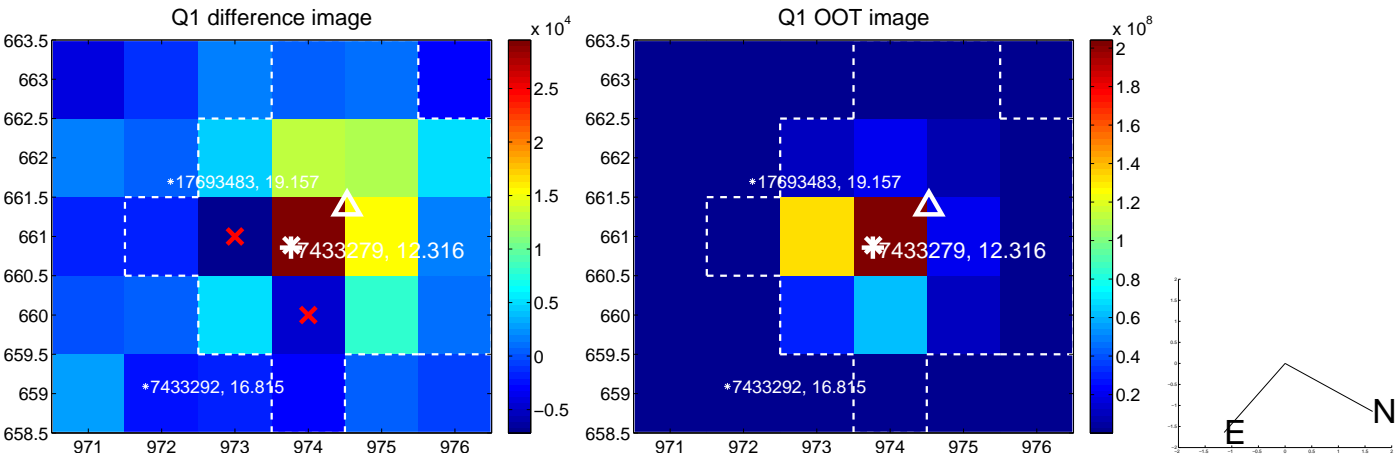
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.297 ± 0.543	0.55	0.224 ± 0.652	0.195 ± 0.350
PRF-fit source offset from KIC position	0.389 ± 0.567	0.69	0.316 ± 0.650	0.228 ± 0.356
photometric centroid source offset	0.53 ± 0.32	1.67	0.40 ± 0.31	0.35 ± 0.33

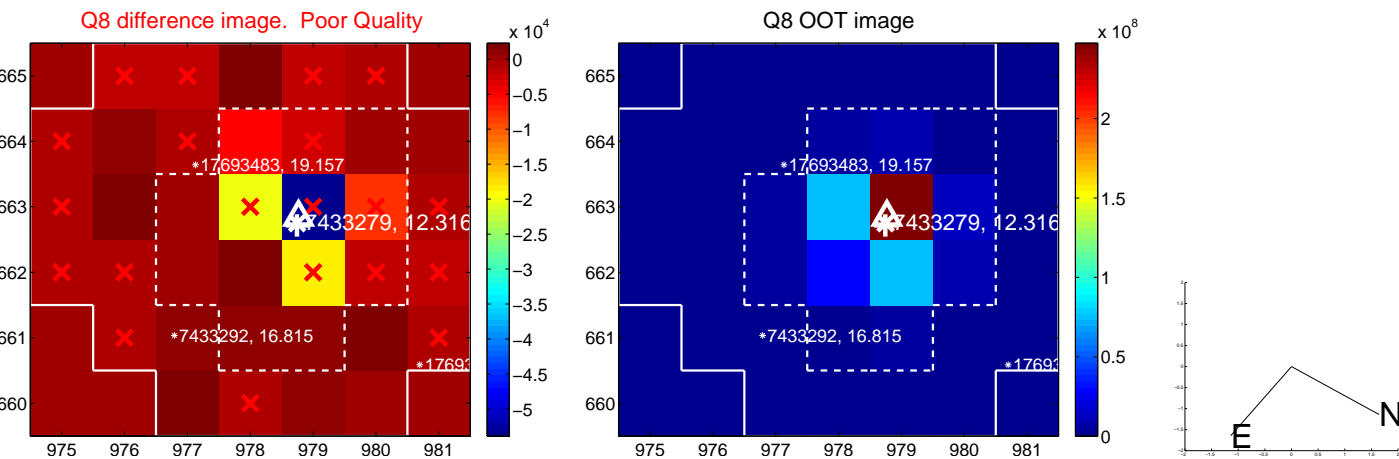
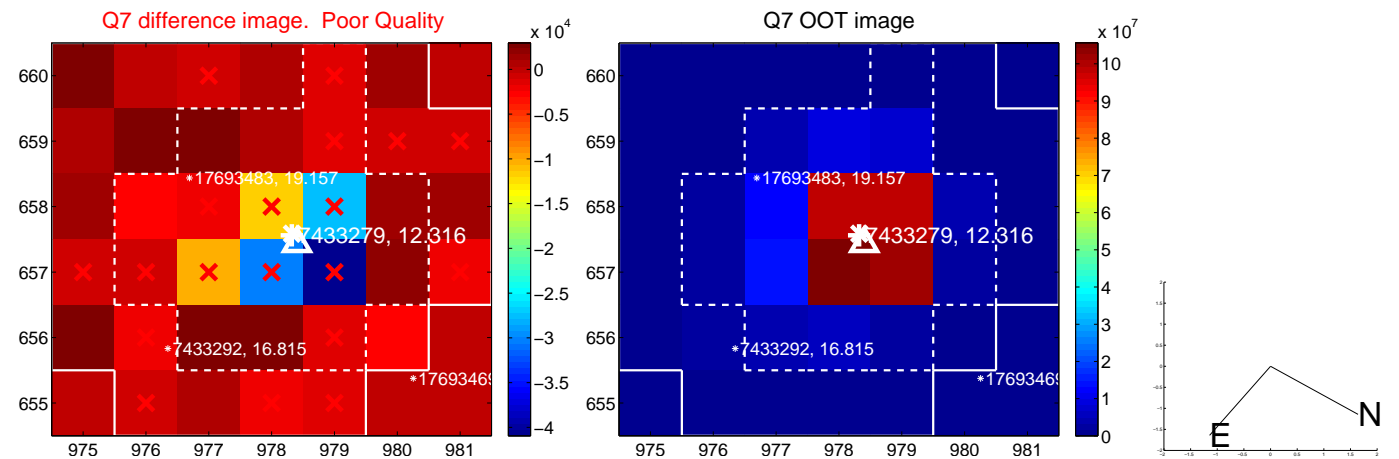
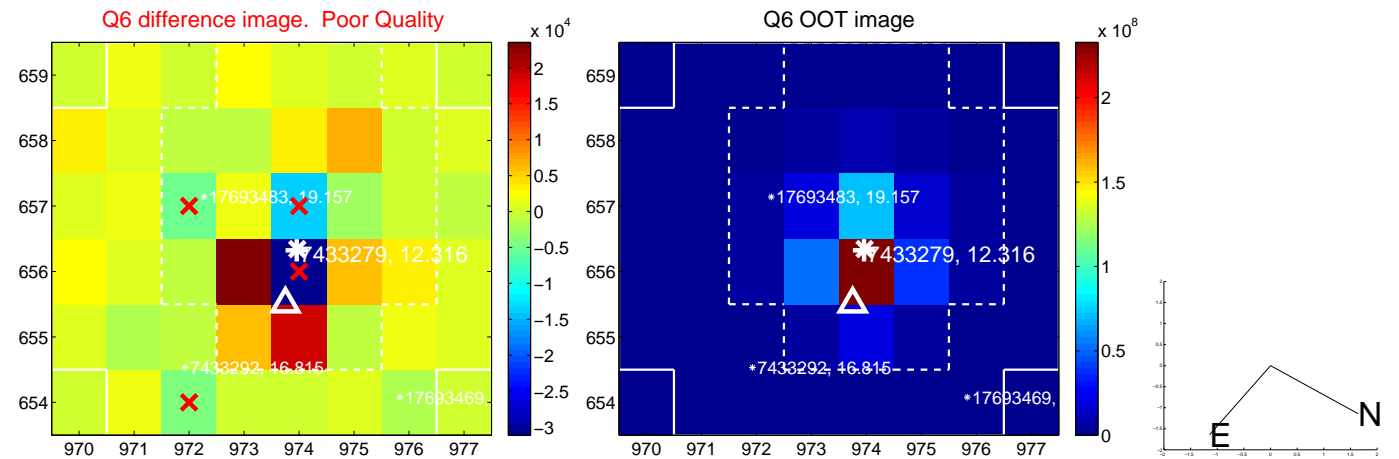
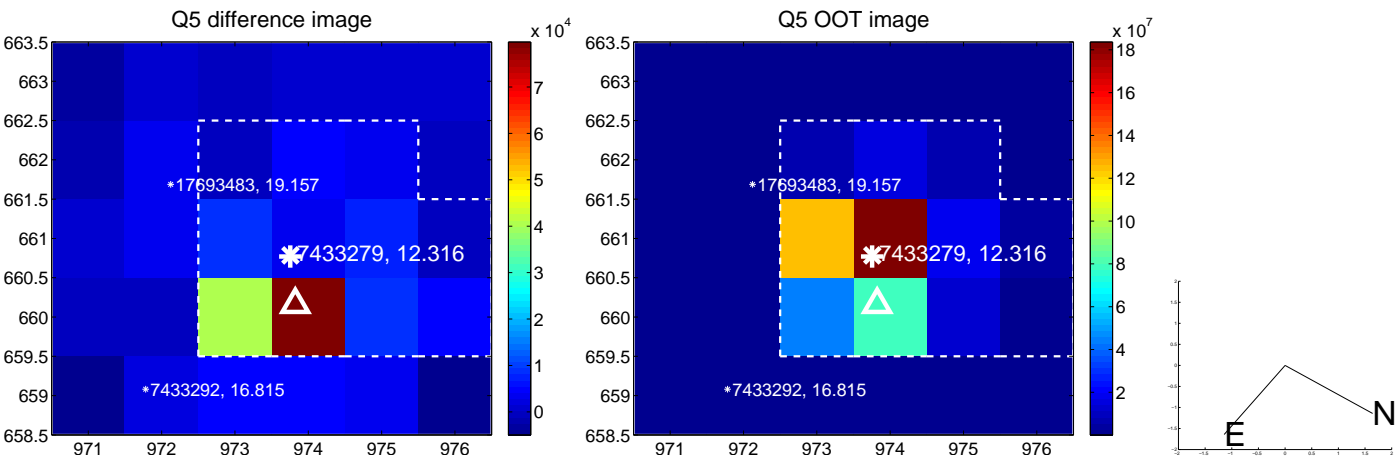


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

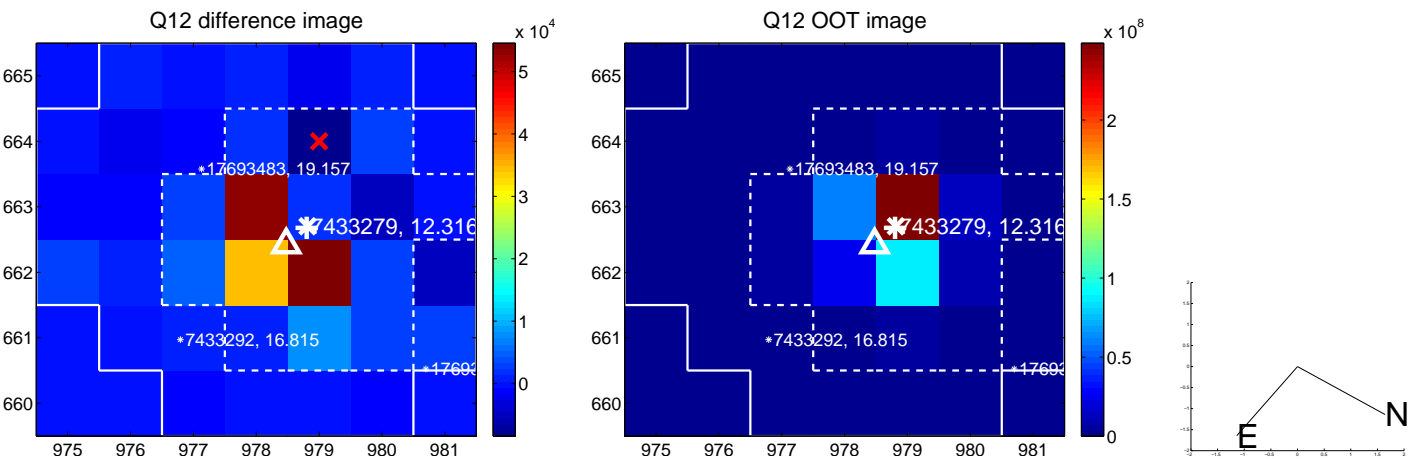
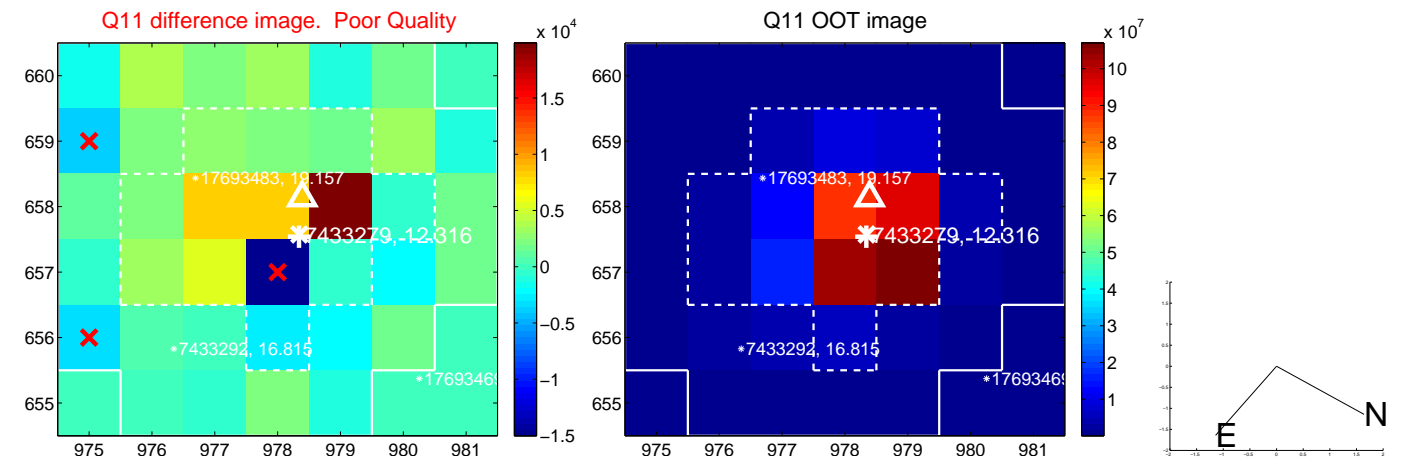
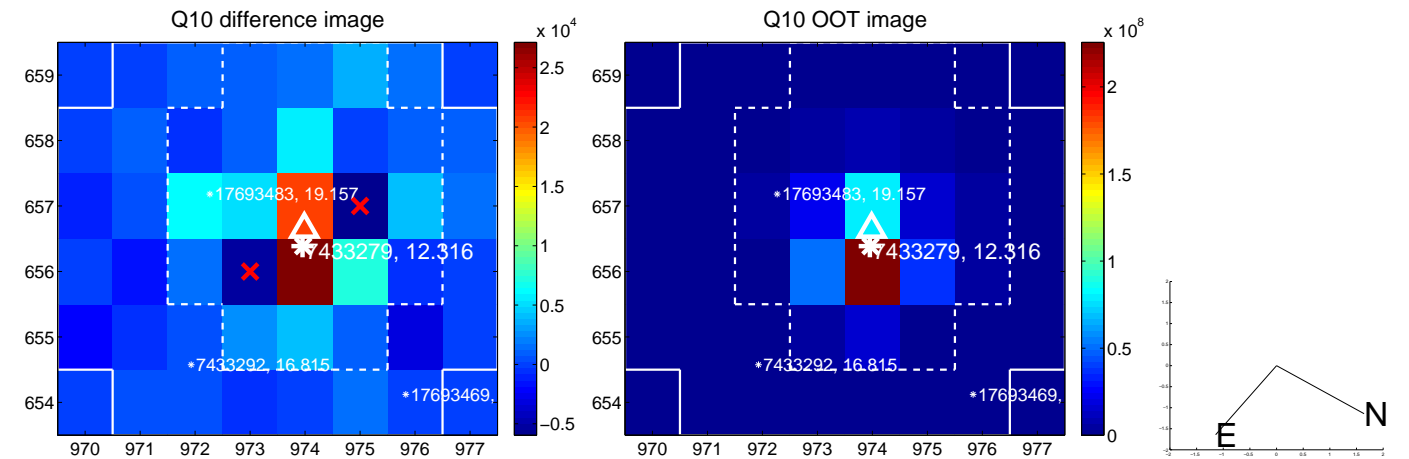
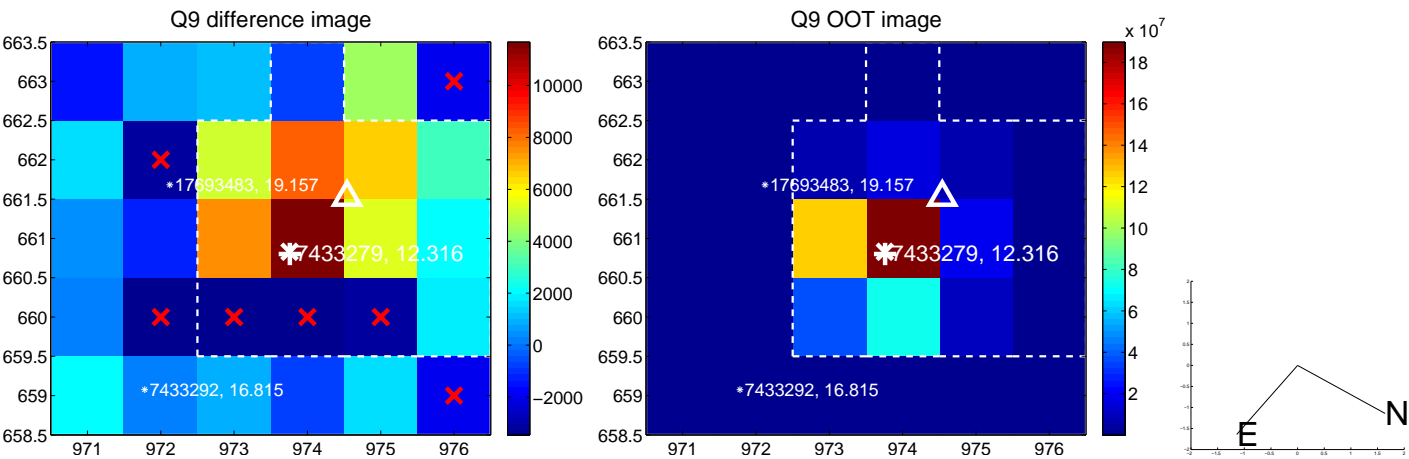
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



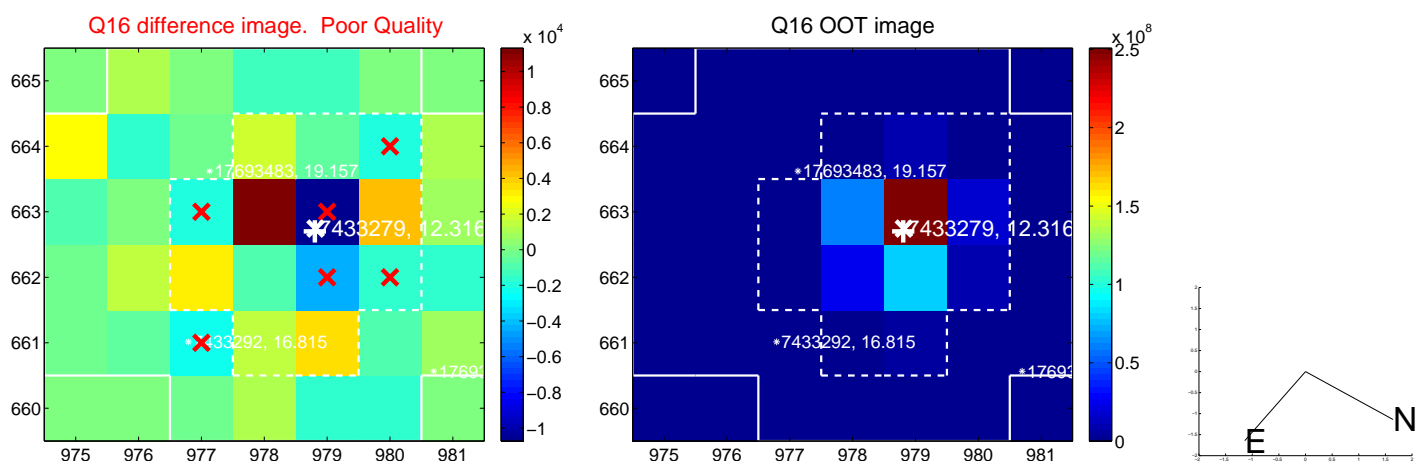
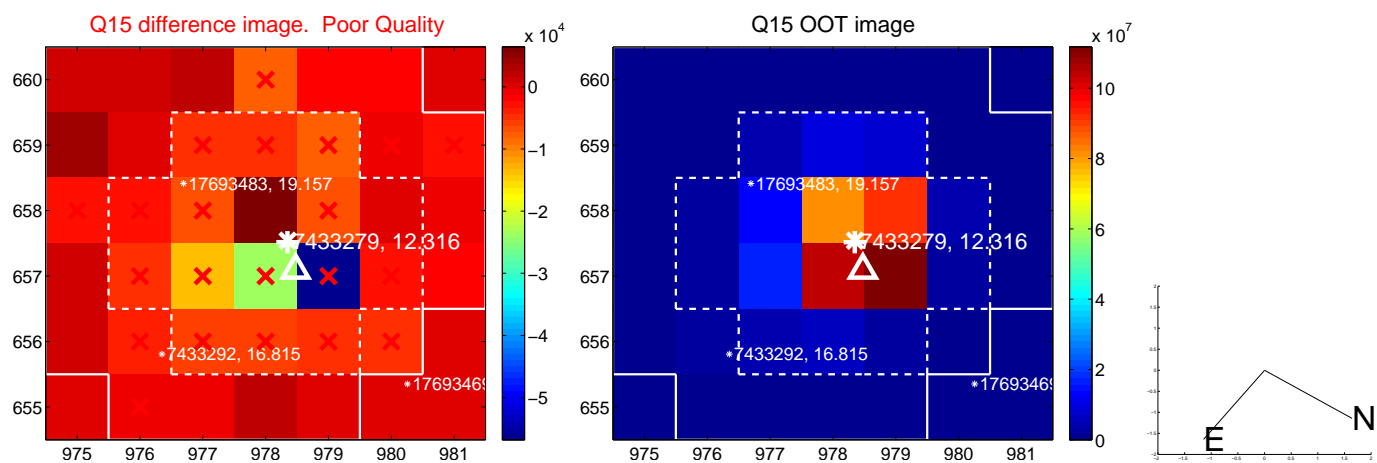
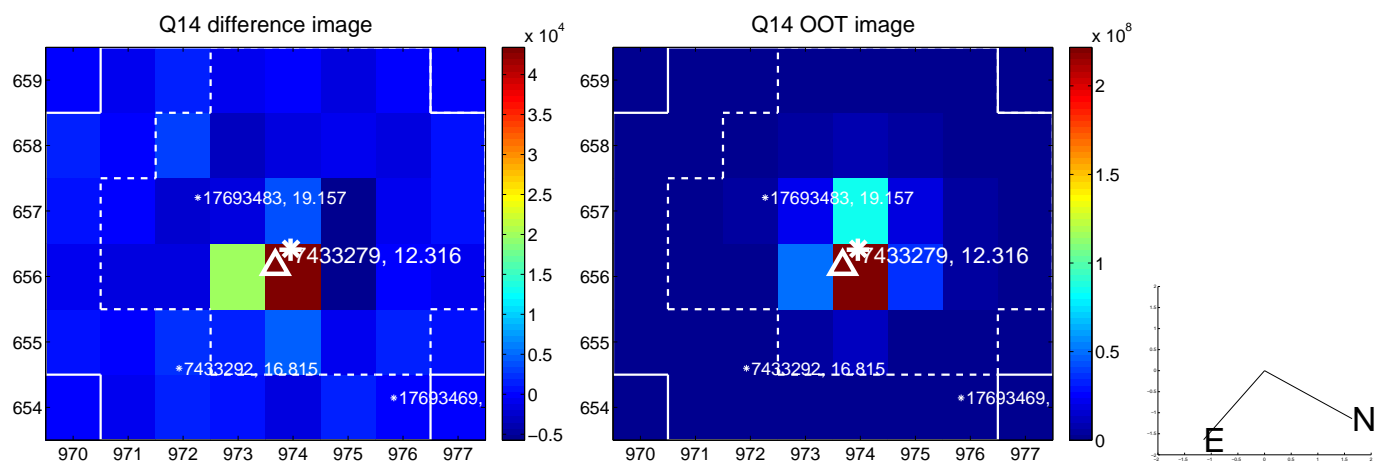
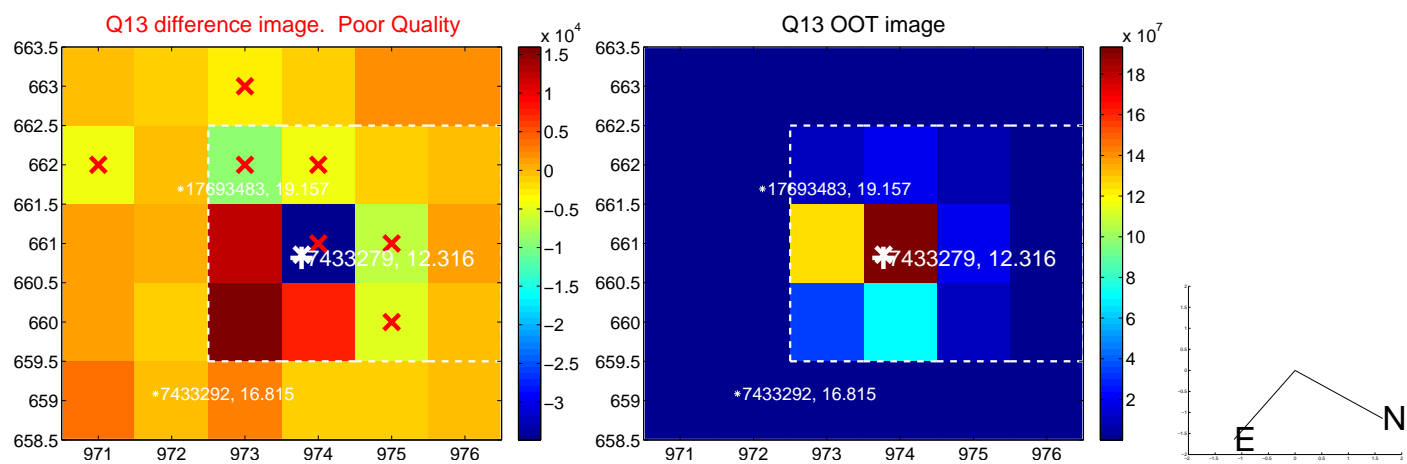
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



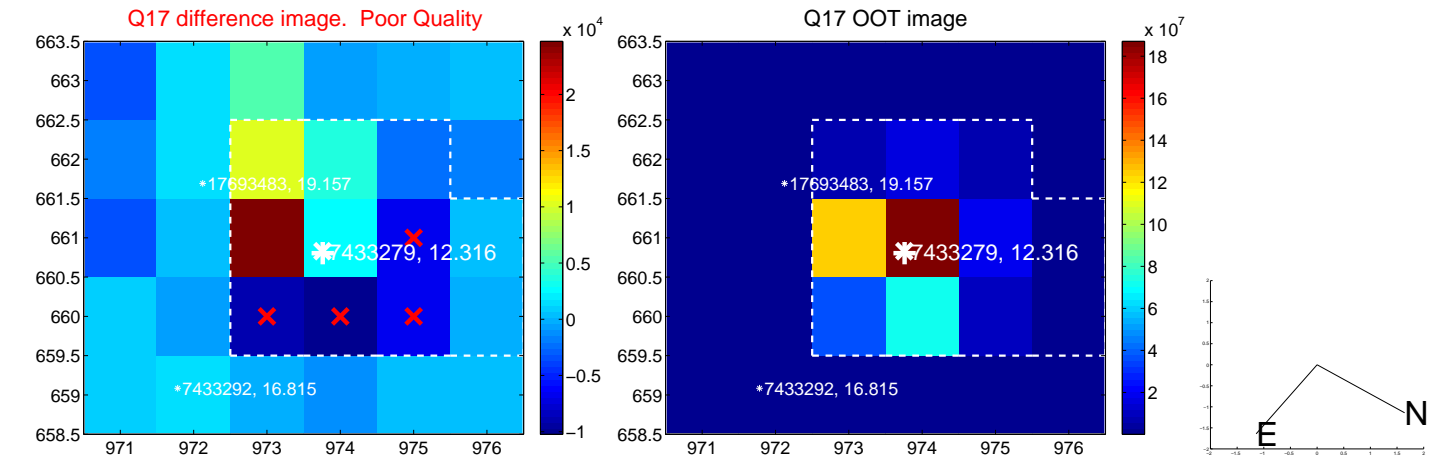
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



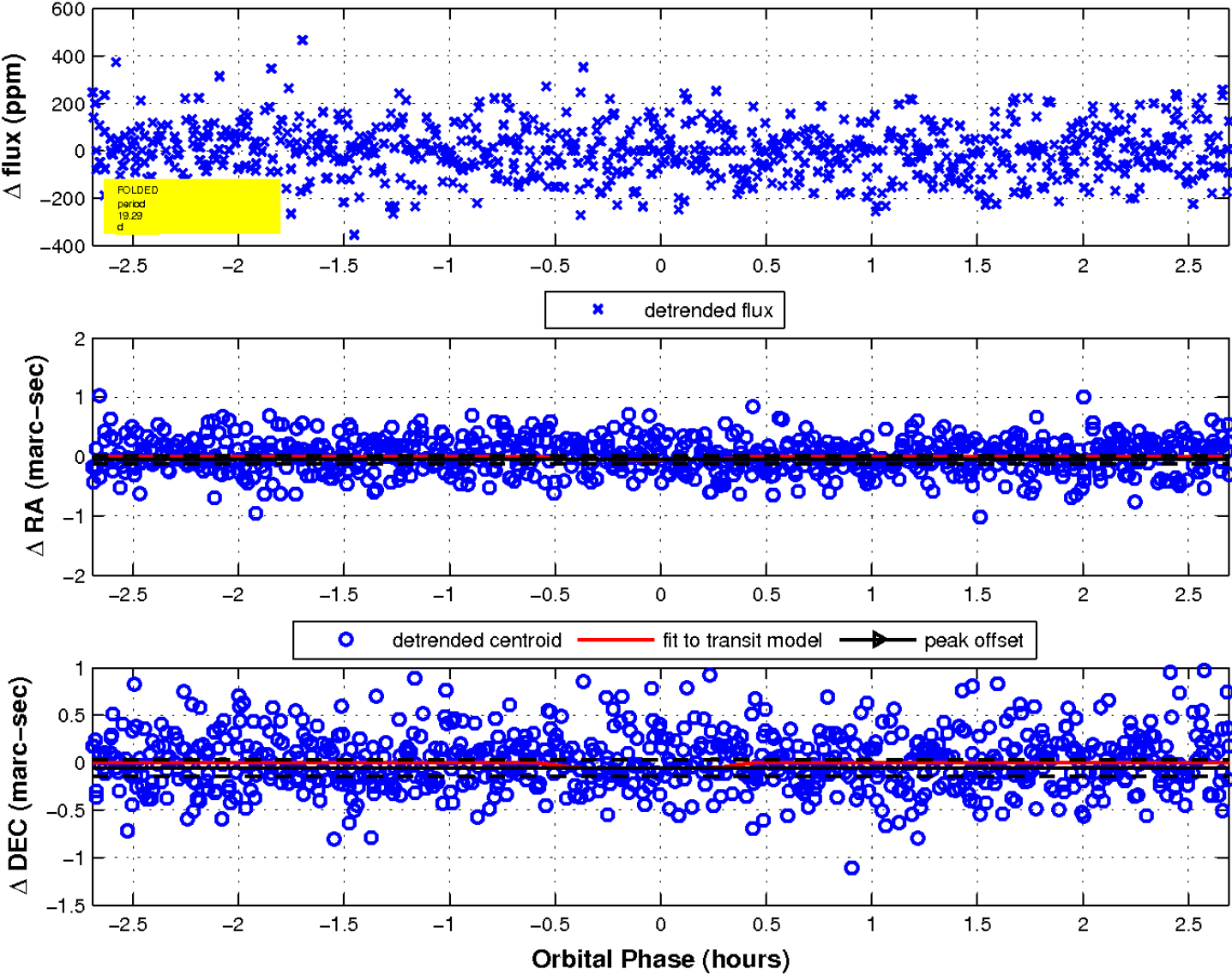
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

