

KIC 008264287

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})
008264287-01	OBS	No	0.854471	131.879124	152.1	6.018	7.6	11.3	0.84	5638	1.03	2171.07
008264287-04	OBS	No	52.572048	133.959668	1250.4	3.133	12.9	5.4	0.84	5638	3.18	8.94
008264287-05	OBS	No	52.531339	146.913281	4217.2	3.000	14.8	-1.0	0.84	5638	5.41	8.95

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264287-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_RESOLVED_OFFSET
008264287-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV— MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET—HALO_GHOST
008264287-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—CENT_NOFITS

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

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

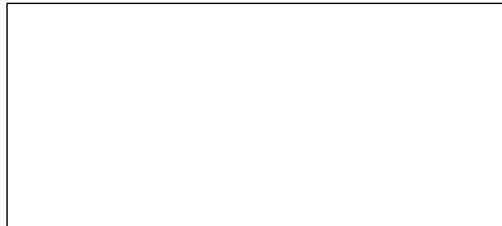
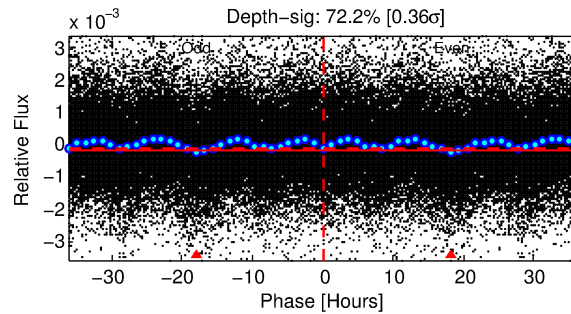
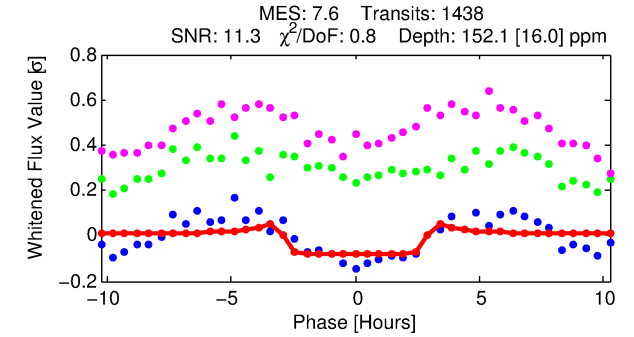
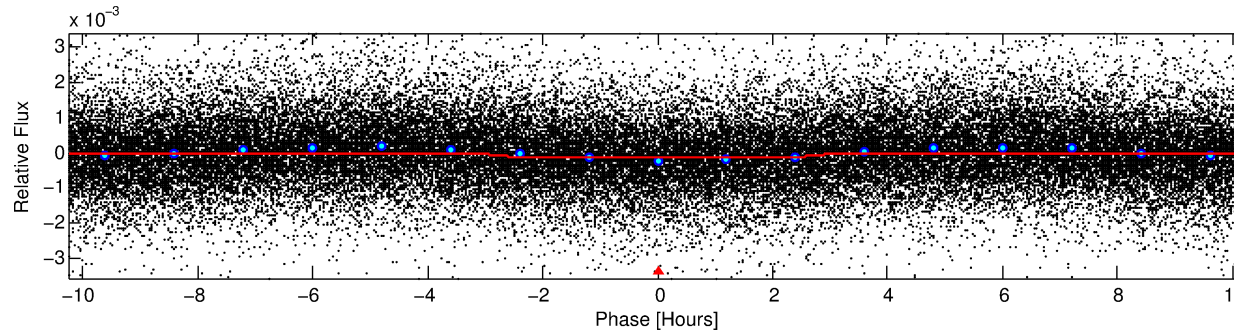
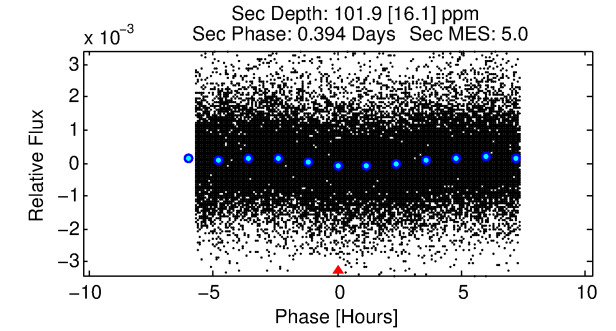
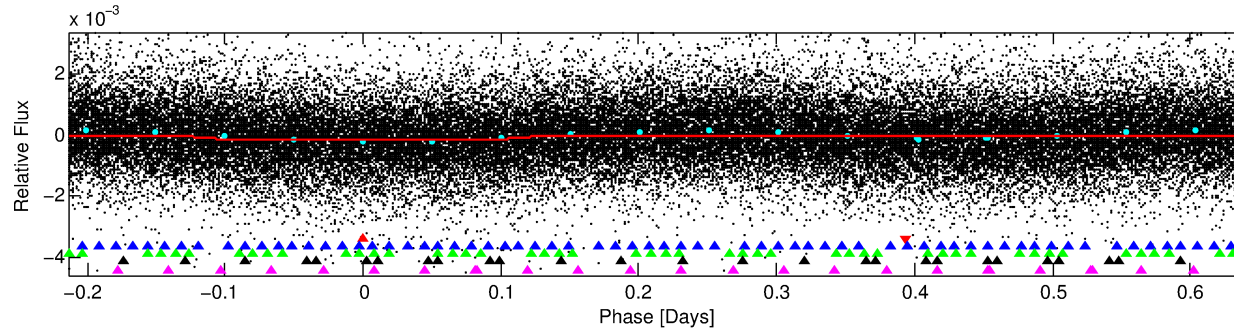
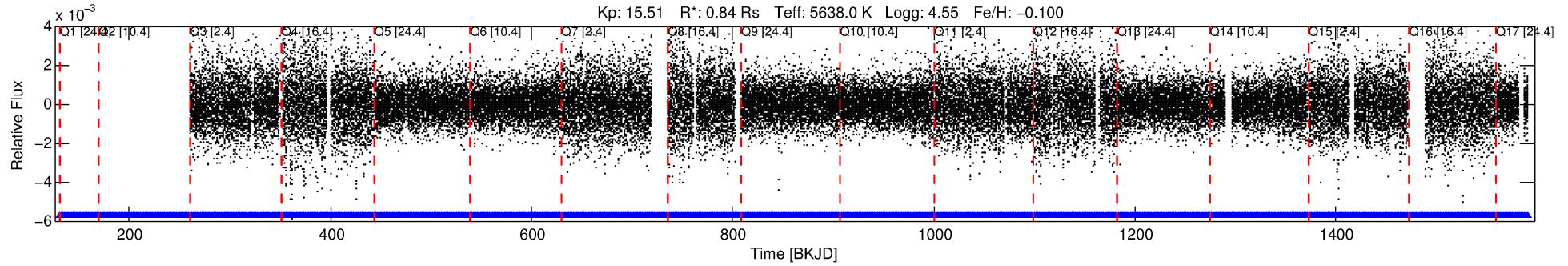
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264287-01

No Significant Match Found

DV One-Page Summary

KIC: 8264287 Candidate: 1 of 5 Period: 0.854 d



DV Fit Results:

Period = 0.85447 [0.00001] d
Epoch = 131.8791 [0.0034] BKJD
Rp/R* = 0.0112 [0.0102]
a/R* = 1.25 [1.76]
b = 0.26 [14.15]
Seff = 2171.07 [767.67]
Teq = 1741 [154] K
Rp = 1.03 [0.98] Re
a = 0.0172 [0.0040] AU
Ag = 15.54 [28.76] [0.51σ]
Teffp = 5343 [2440] K [1.47σ]

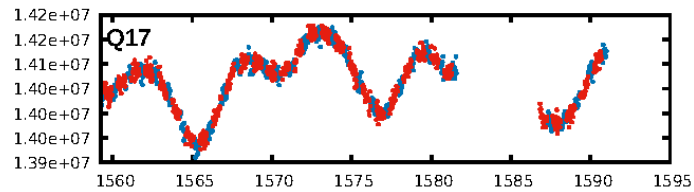
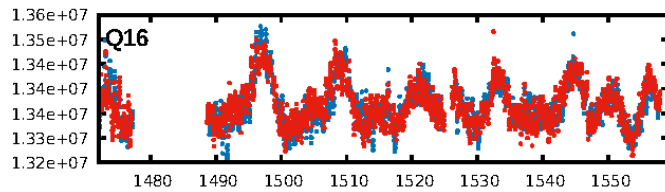
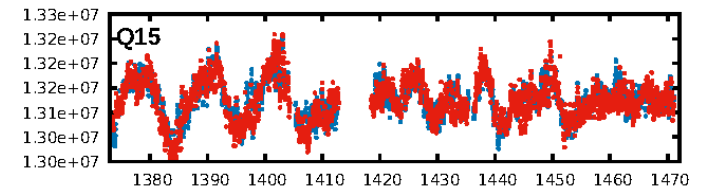
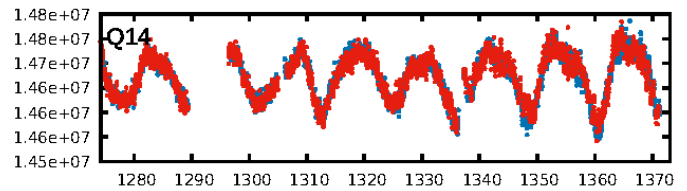
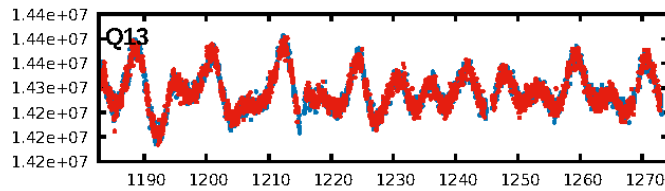
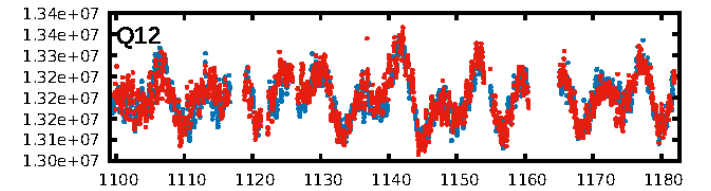
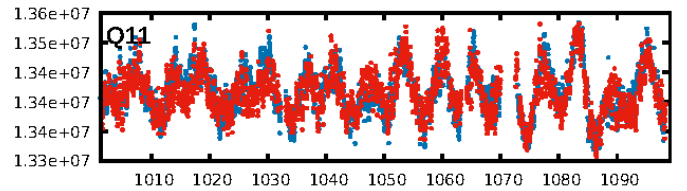
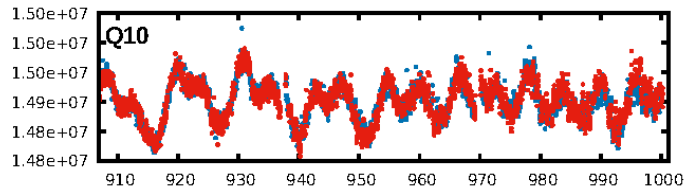
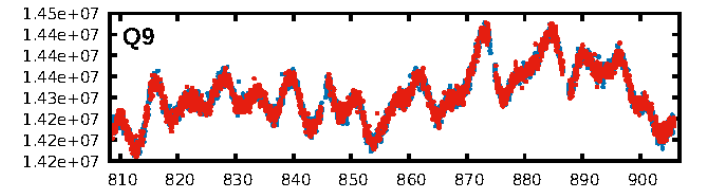
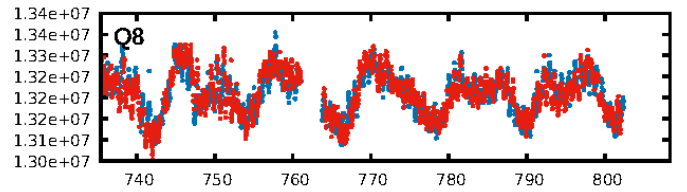
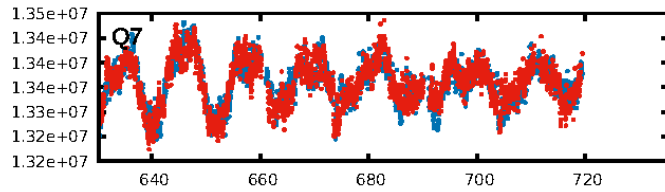
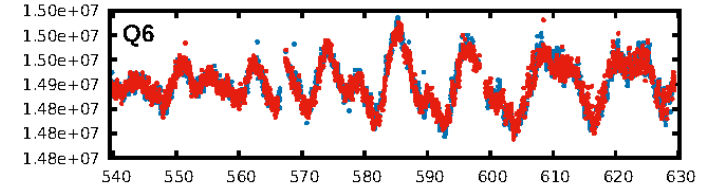
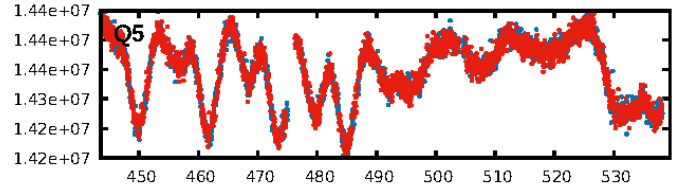
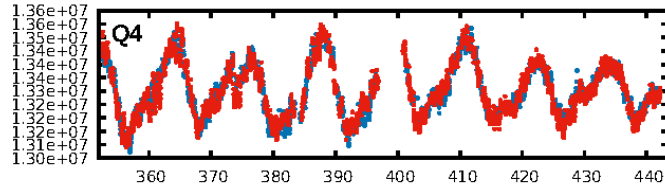
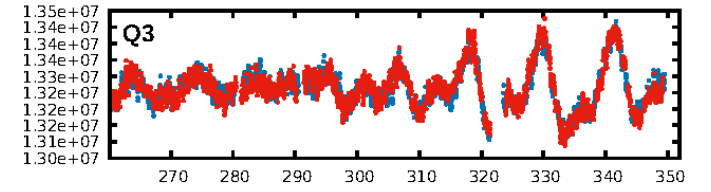
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [77.10σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1407/1407]
GhostDiagnostic-chr: -0.5797
Centroid-sig: 0.0%
Centroid-so: 4.838 arcsec [9.42σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [15/15]

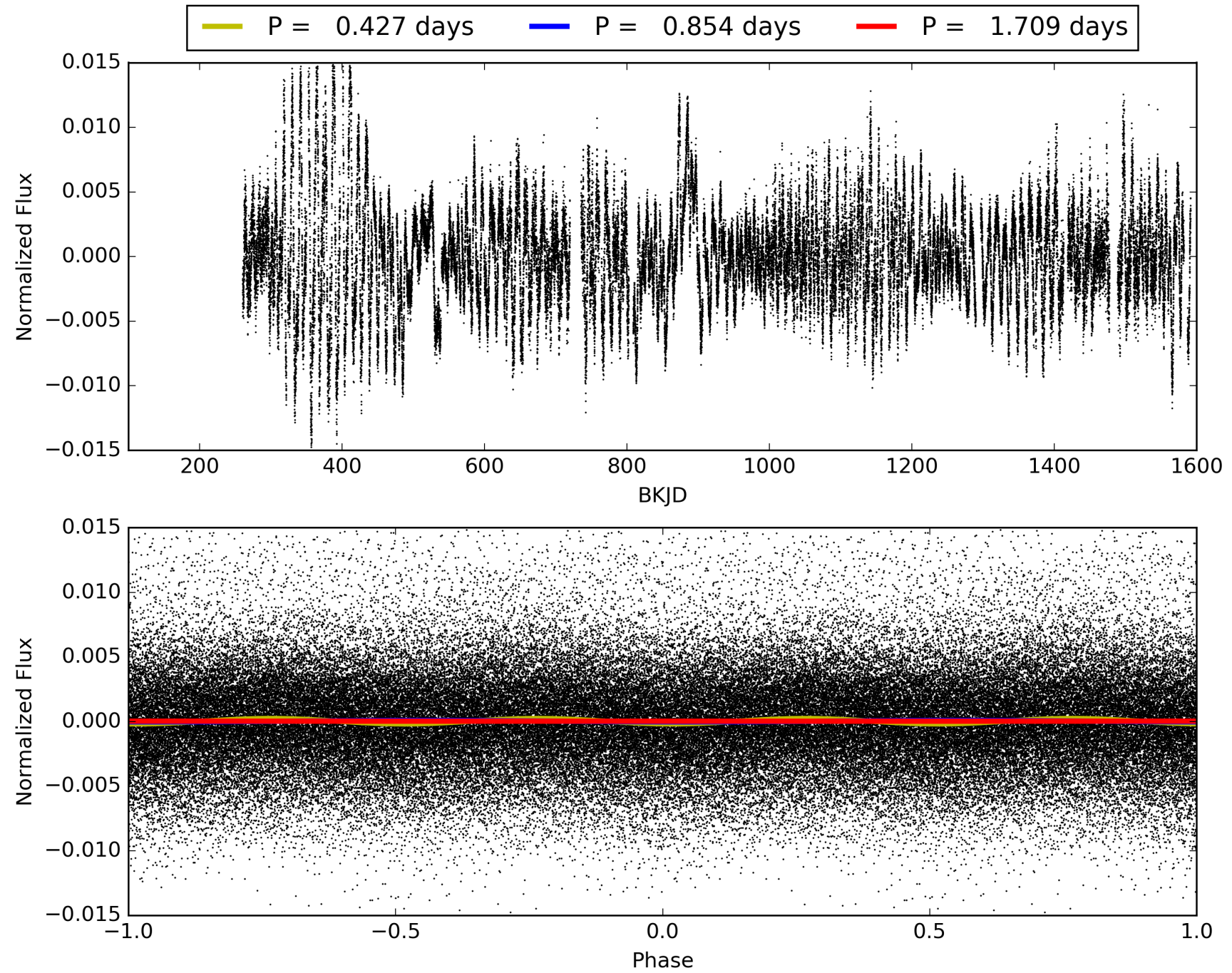
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:39:21 Z

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

TCE 008264287-01, PDC Light Curves

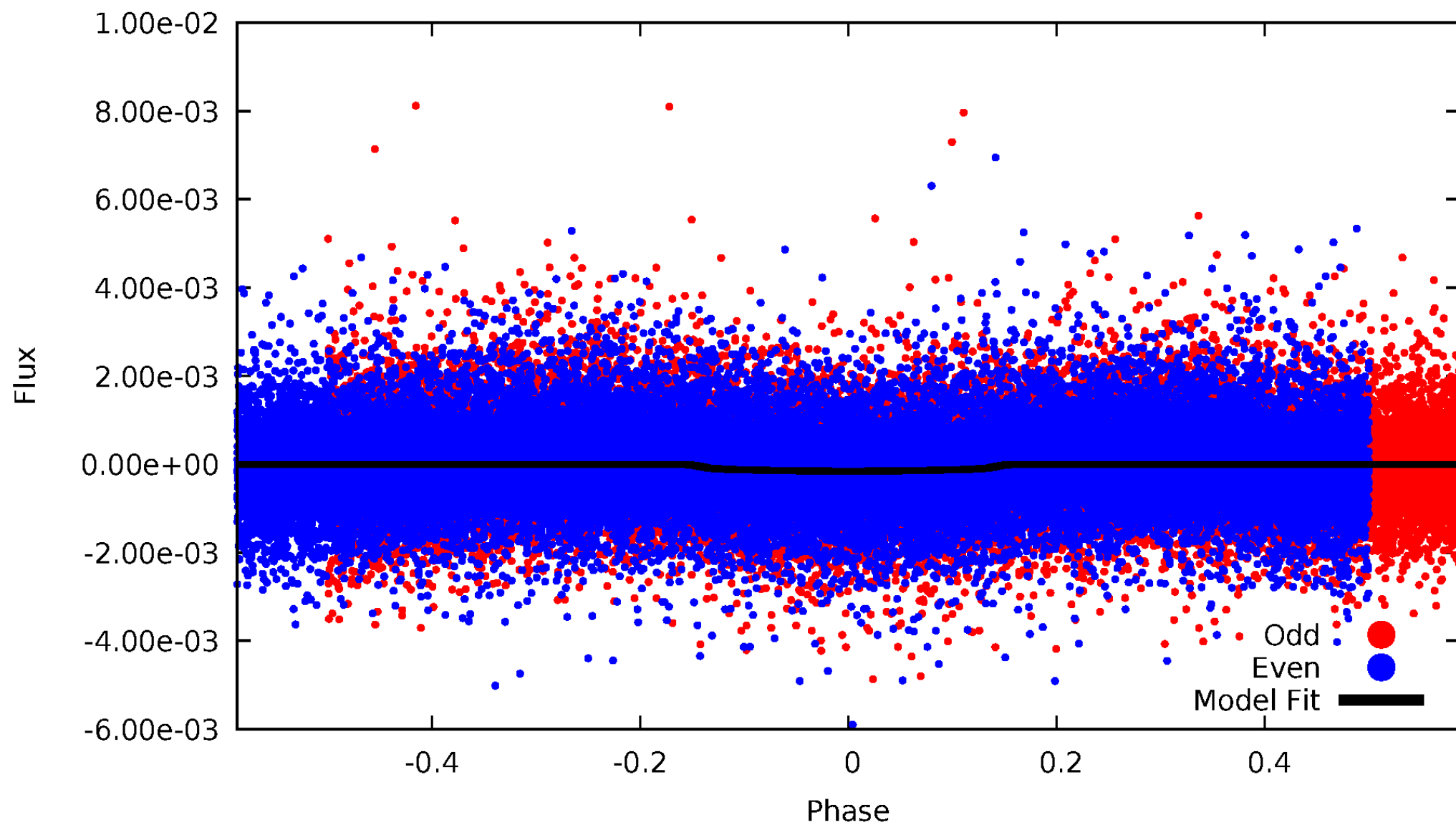


TCE 008264287-01



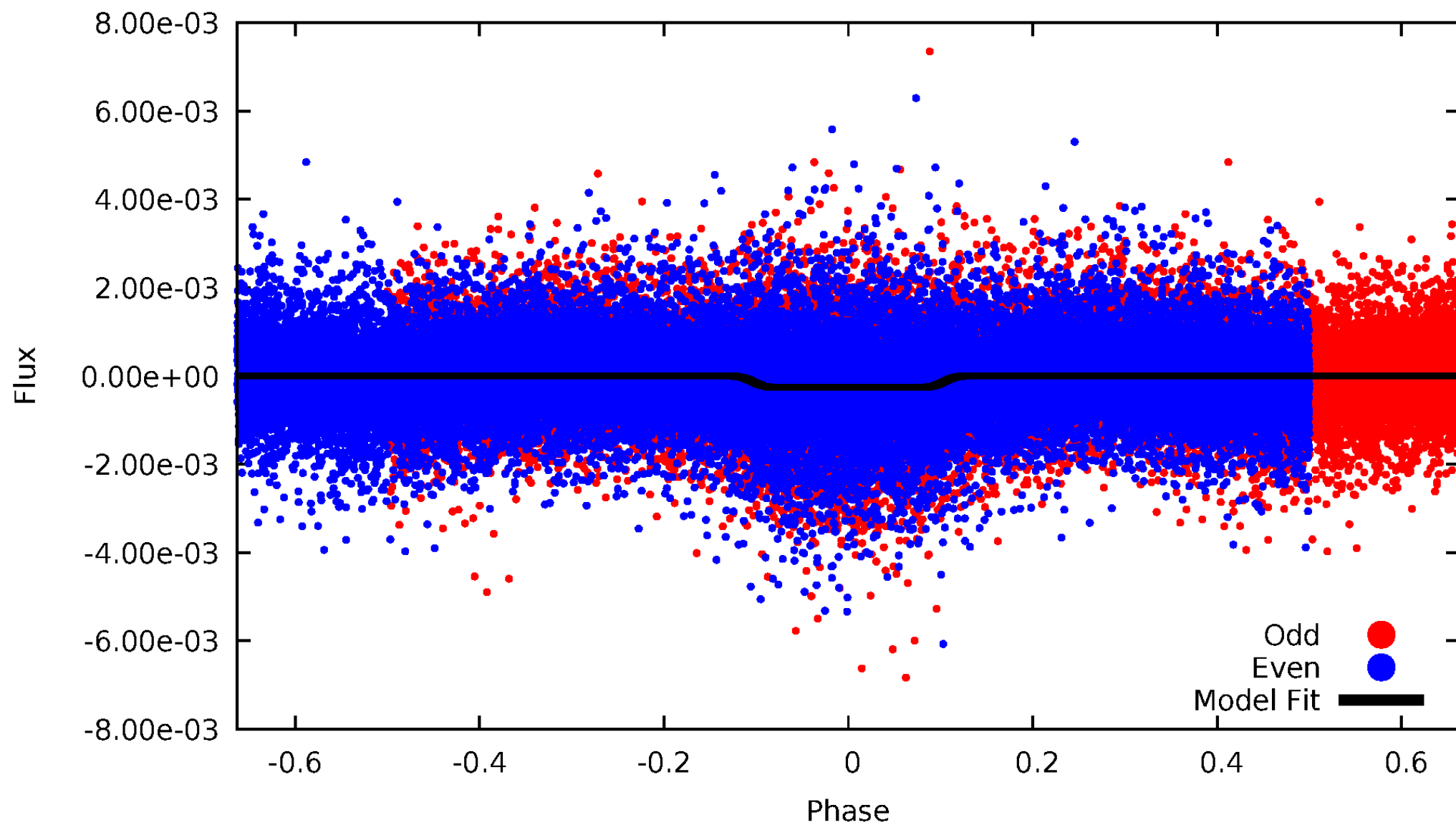
DV Odd/Even

TCE 008264287-01



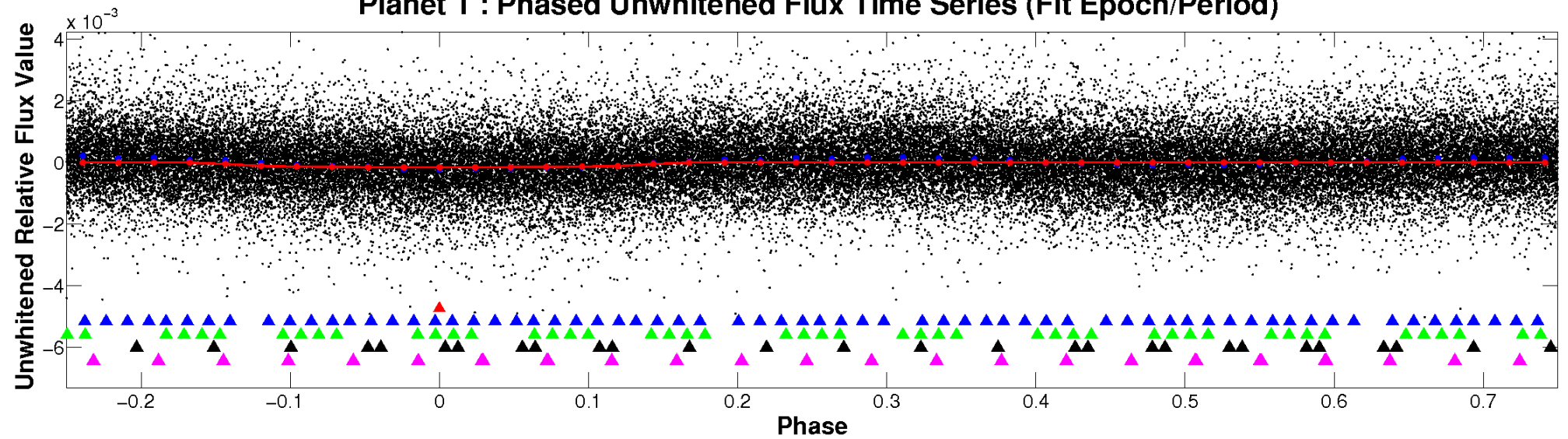
ALT Odd/Even

TCE 008264287-01

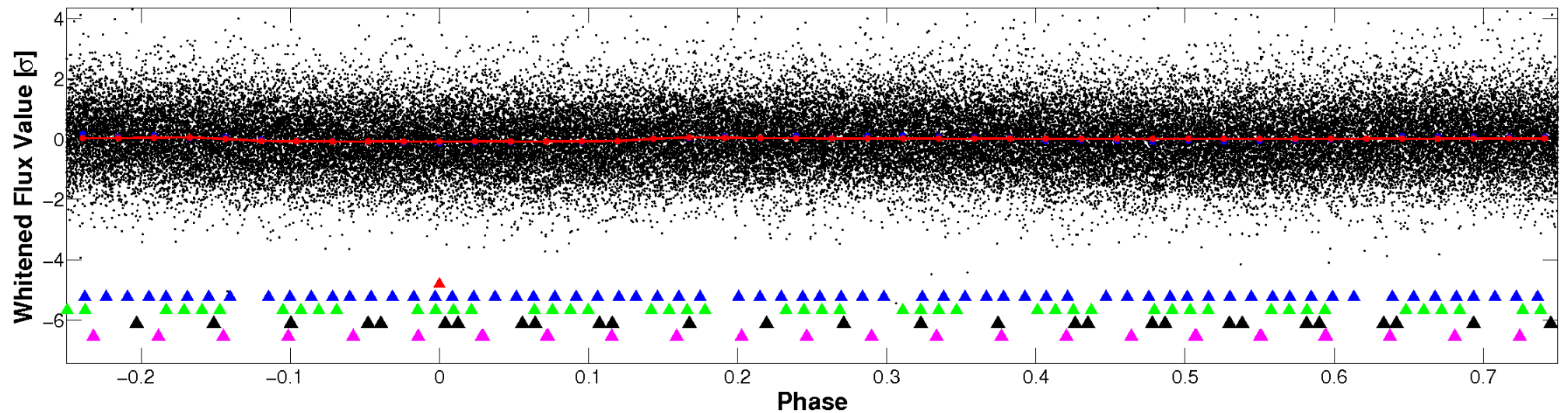


Non-Whitened Vs. Whitened Light Curve

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

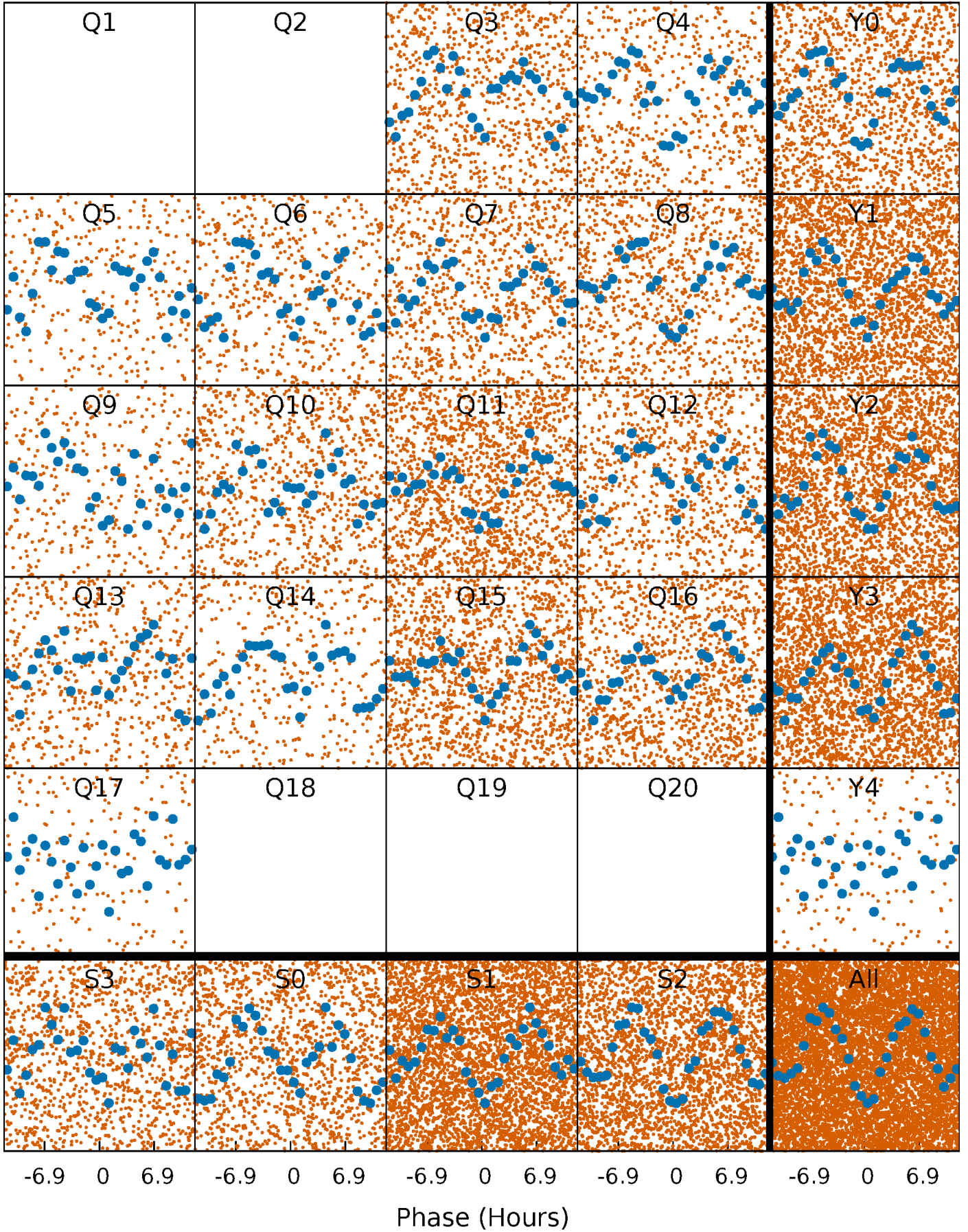


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



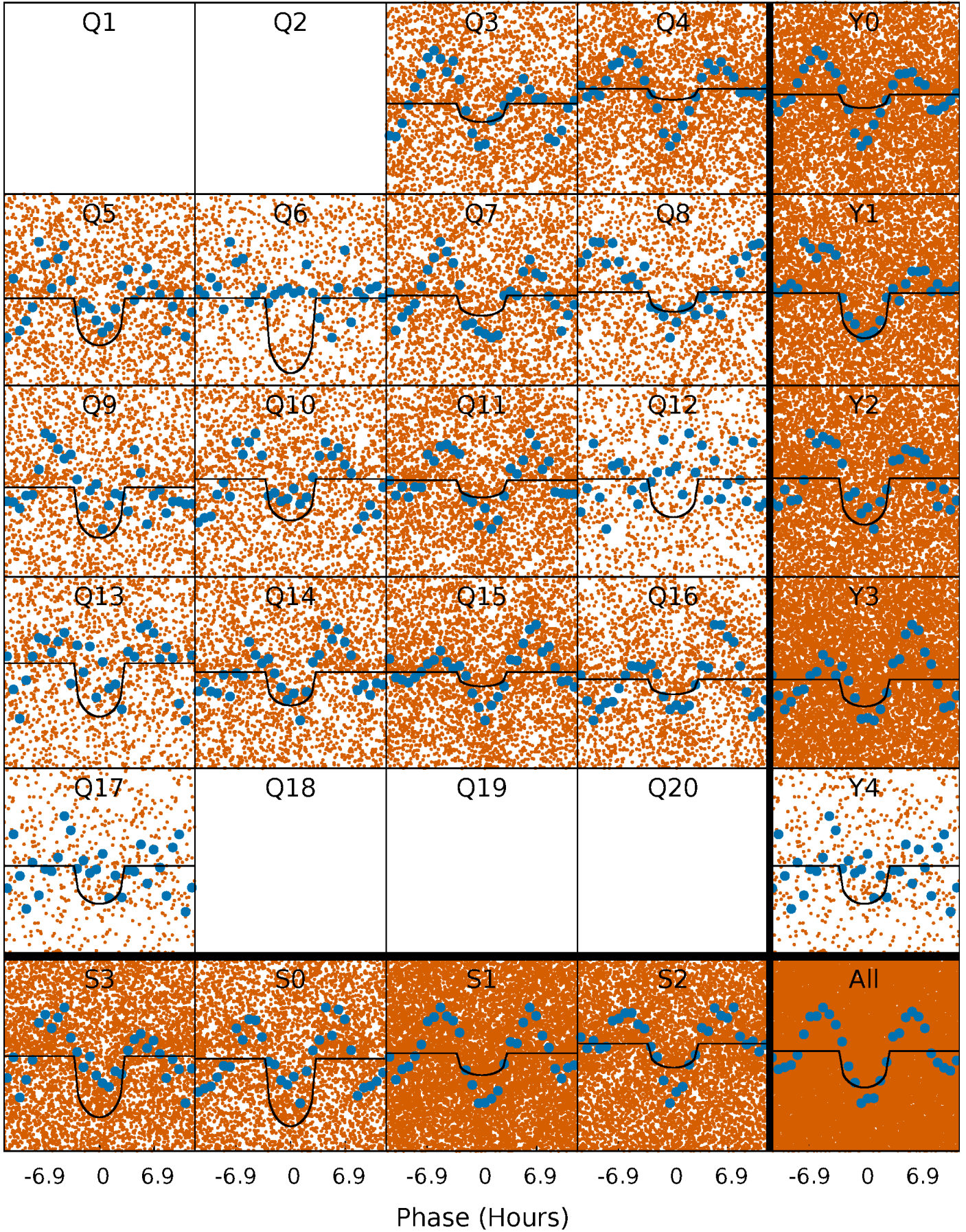
PDC Quarter-Phased Transit Curves

TCE 008264287-01 P= 0.854471 Days $T_0=131.879124$ (BKJD)



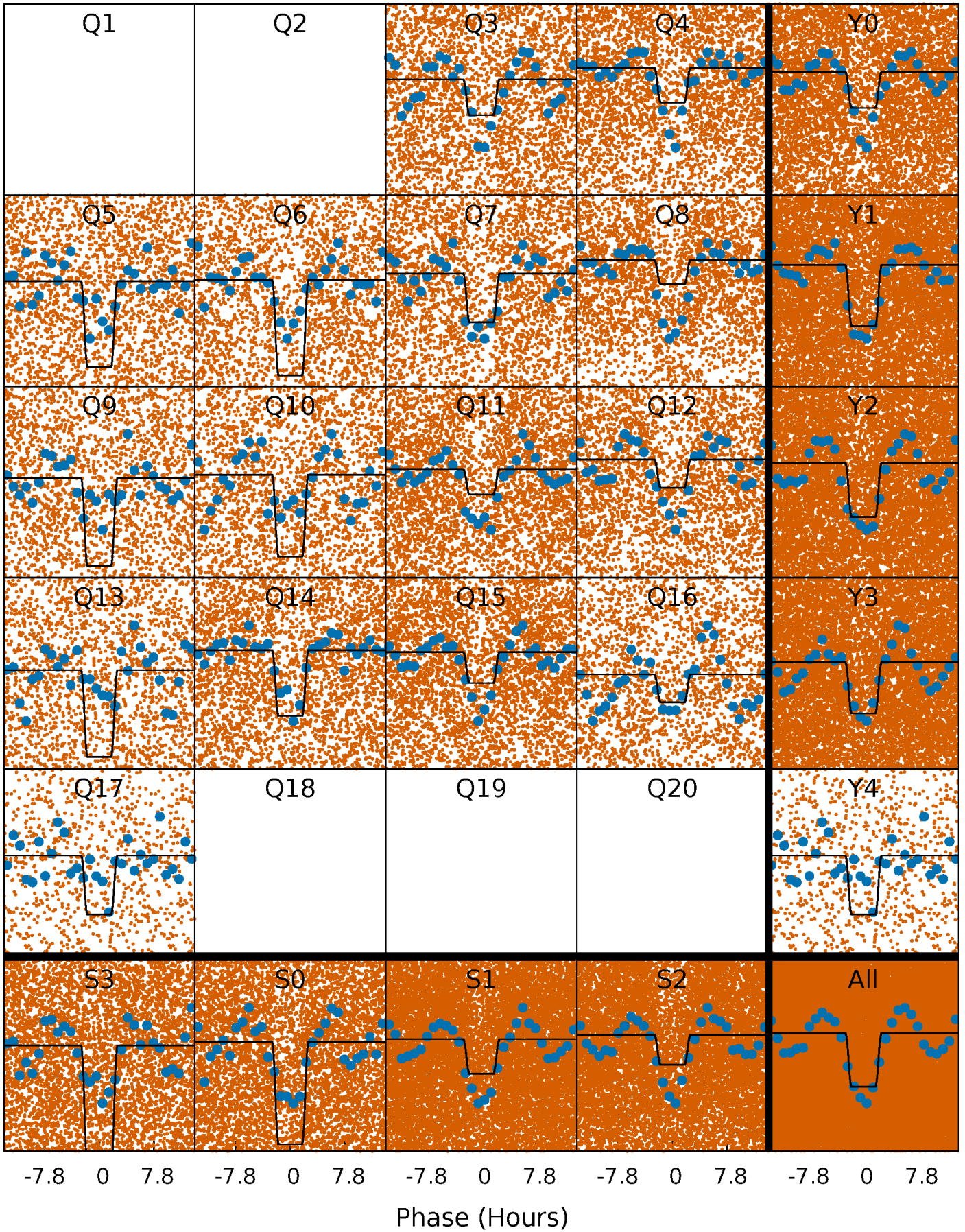
DV Quarter-Phased Transit Curves

TCE 008264287-01 P= 0.854471 Days $T_0=131.879124$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

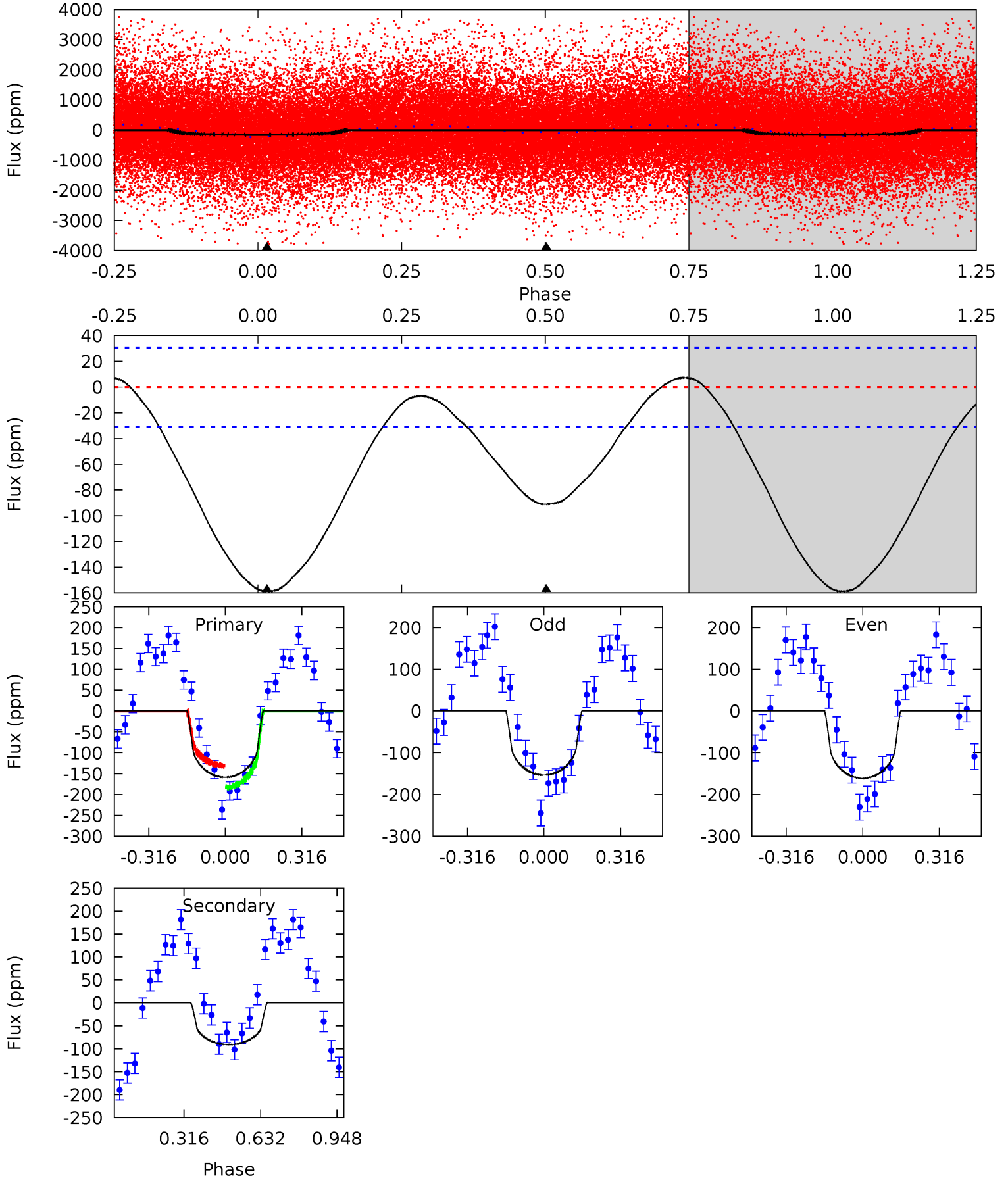
TCE 008264287-01 P= 0.854520 Days $T_0=131.843528$ (BKJD)



DV Model-Shift Uniqueness Test

008264287-01, P = 0.854471 Days, E = 131.879124 Days

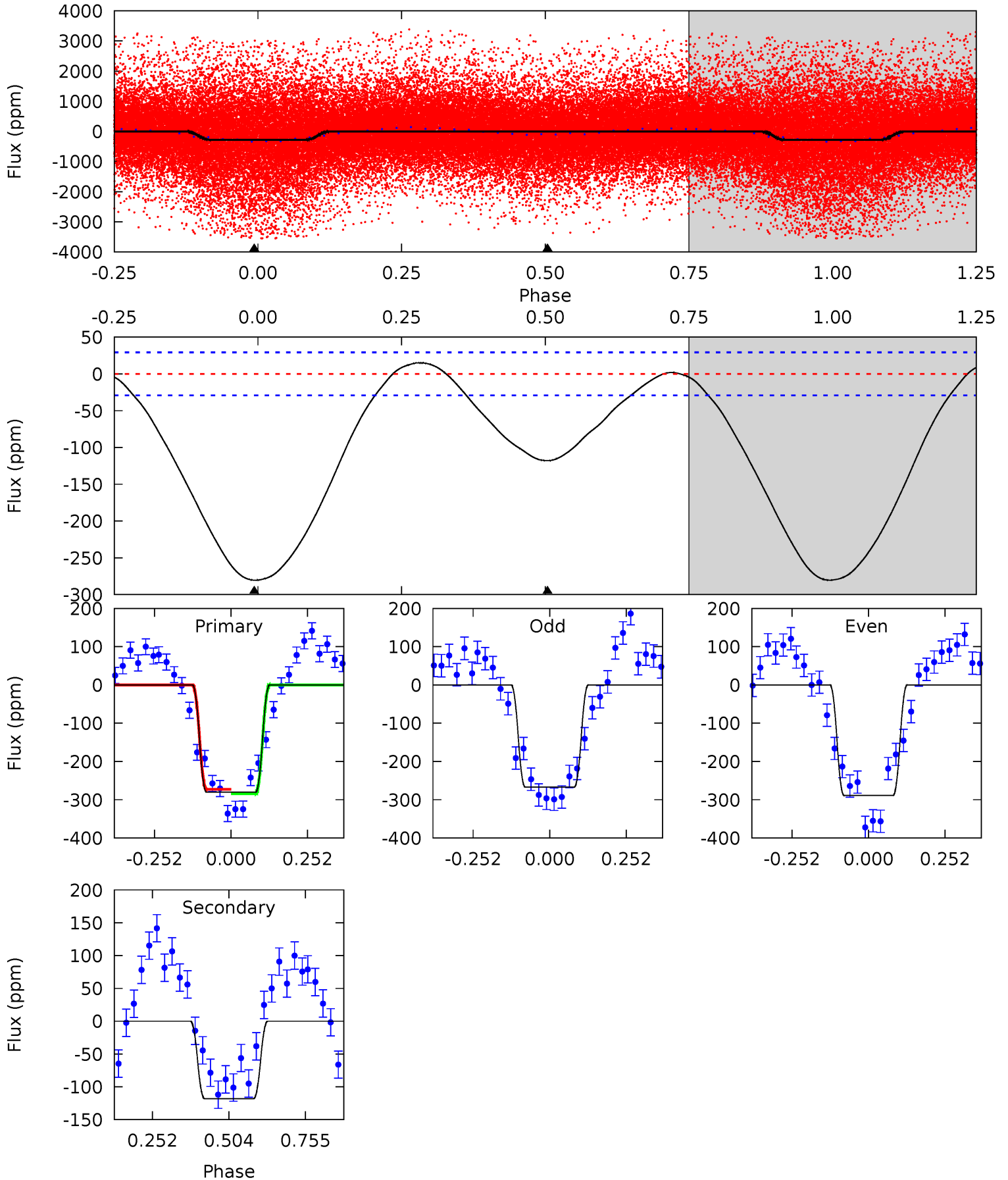
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.3	12.8	0	0	4.32	1.00	1.13	22.3	22.3	12.8	12.8	0.55	1.39	0.04	3.81



Alt Model-Shift Uniqueness Test

008264287-01, P = 0.854520 Days, E = 131.843528 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
41.9	17.6	0	0	4.37	1.15	1.36	41.9	41.9	17.6	17.6	1.65	1.31	0.05	0.78



Stellar Parameters For KIC 008264287

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5638^{+169}_{-186}	$4.555^{+0.044}_{-0.176}$	$-0.100^{+0.300}_{-0.300}$	$0.842^{+0.235}_{-0.073}$	$0.928^{+0.094}_{-0.104}$	$2.188^{+0.394}_{-1.060}$
	+3%/-3%	+1%/-4%	+300%/-300%	+28%/-9%	+10%/-11%	+18%/-48%
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 008264287-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-91 ± 7	$1.25^{+0.91}_{-0.75}$	2478^{+171}_{-111}	4911^{+3057}_{-977}	$9.652^{+50.030}_{-6.528}$
Alt.	-118 ± 7	$1.60^{+0.91}_{-0.83}$	2473^{+154}_{-114}	4626^{+1860}_{-774}	$7.417^{+24.627}_{-4.456}$

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

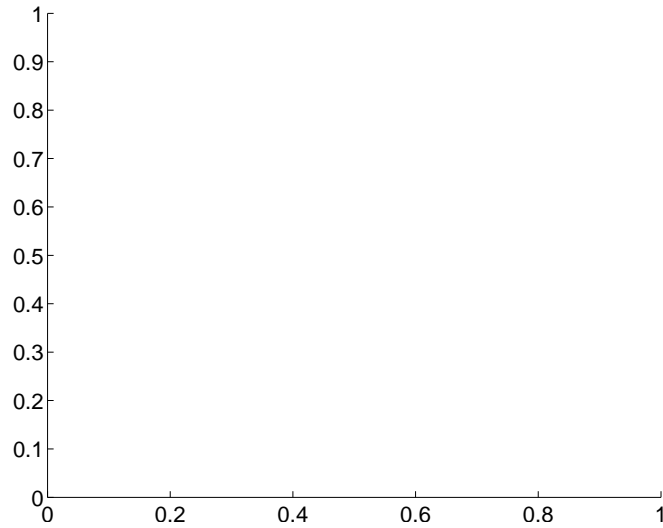
Supplemental centroid analysis for 008264287-01. Kepler magnitude: 15.51. Transit SNR 11.28

There are 0 quarters with good PRF difference image offsets

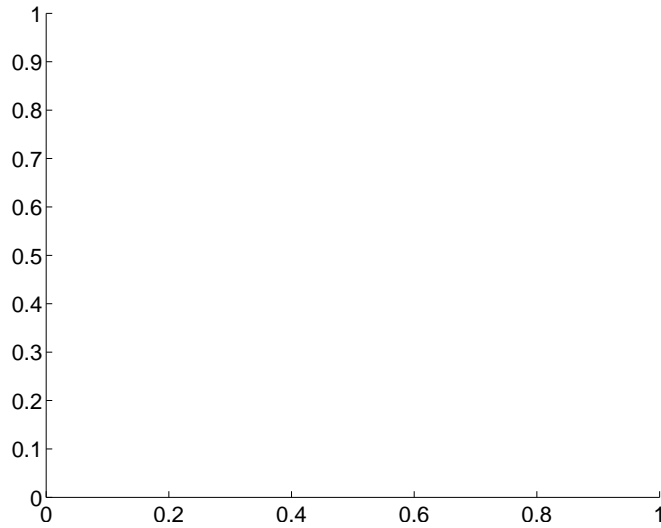
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	4.84 ± 0.51	9.42	-4.02 ± 0.58	2.70 ± 0.31

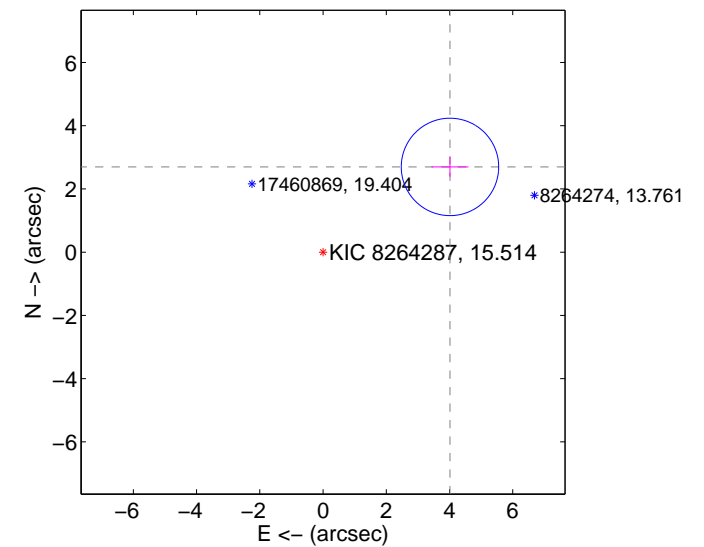
There is no PRF-fit offset from OOT-fit



There is no PRF-fit offset from KIC



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.

Q1 no difference image



Q1 no OOT image



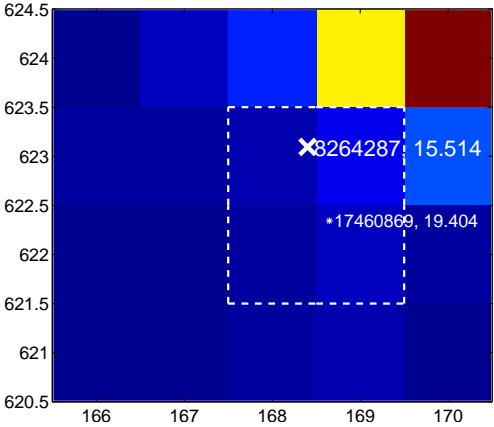
Q2 no difference image



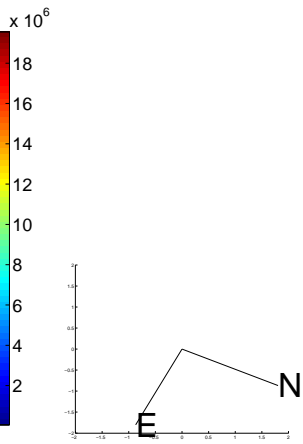
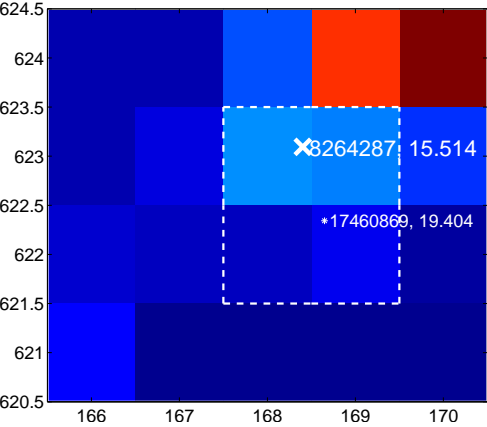
Q2 no OOT image



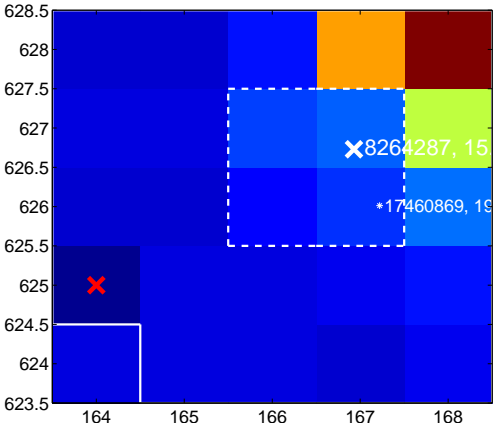
Q3 difference image. Poor Quality



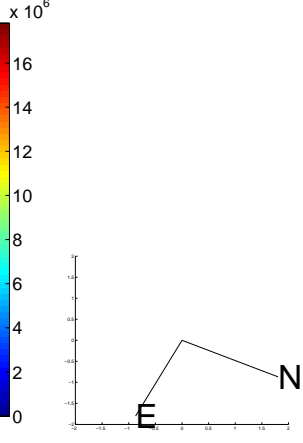
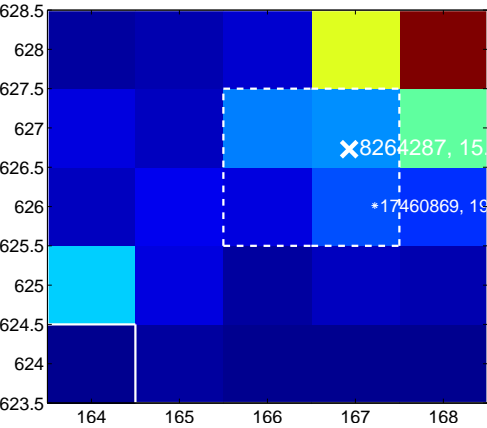
Q3 OOT image



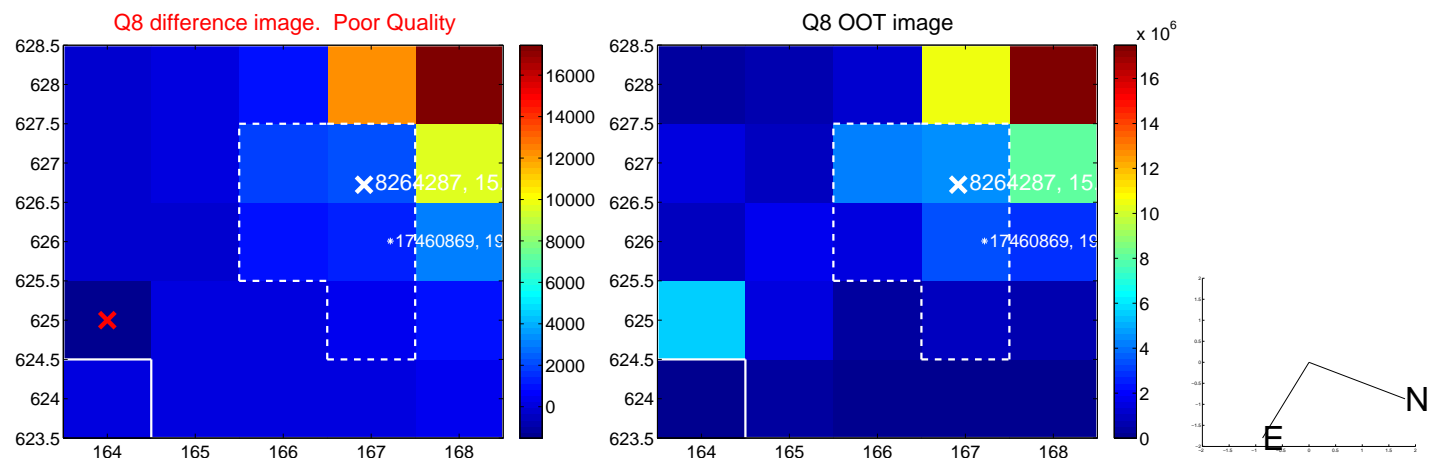
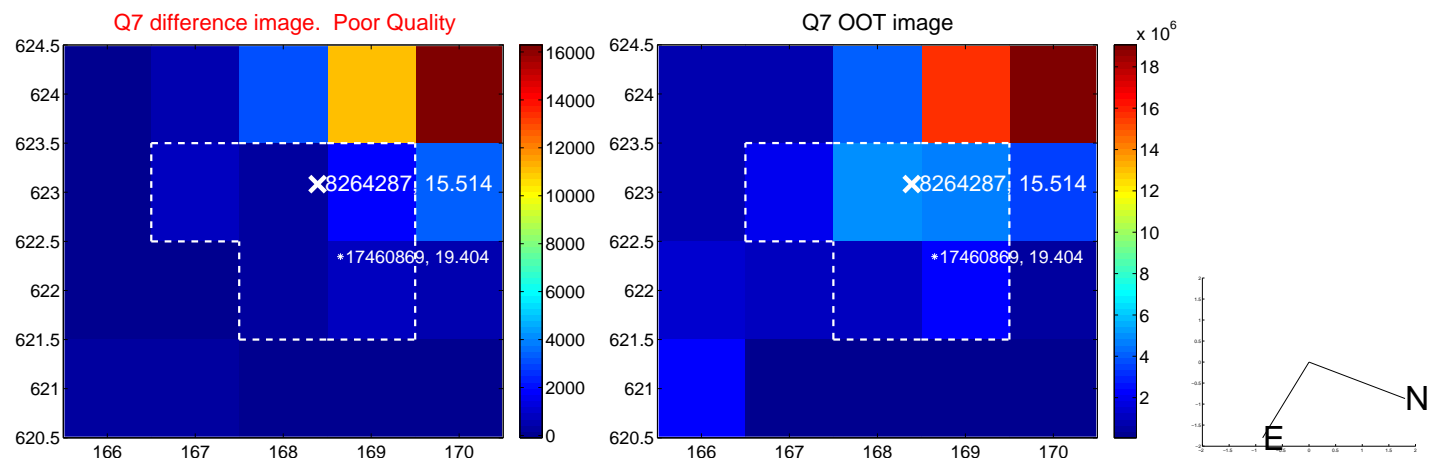
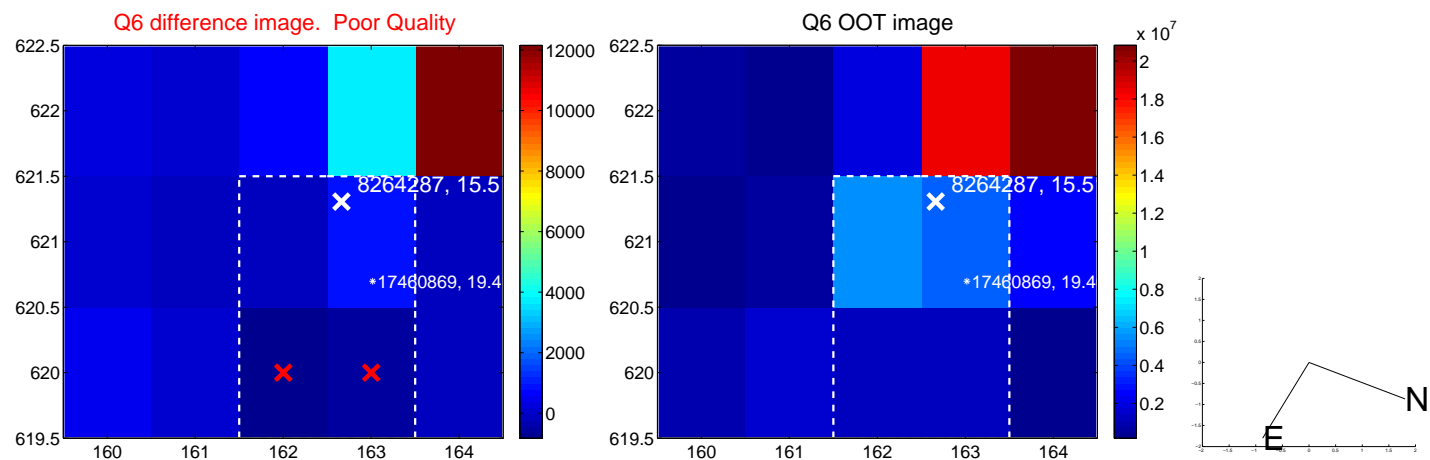
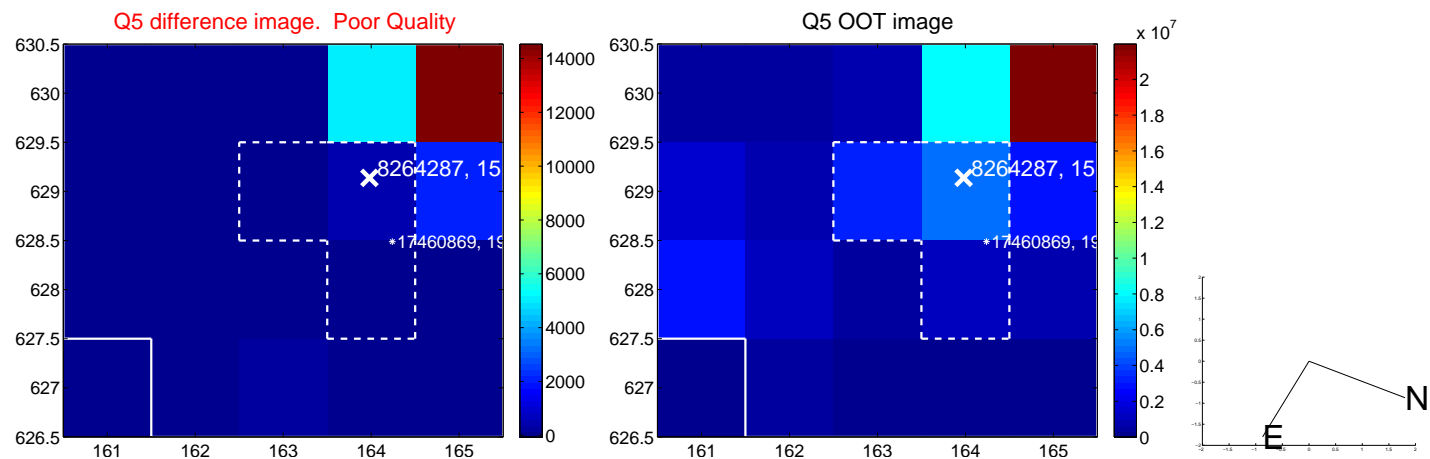
Q4 difference image. Poor Quality



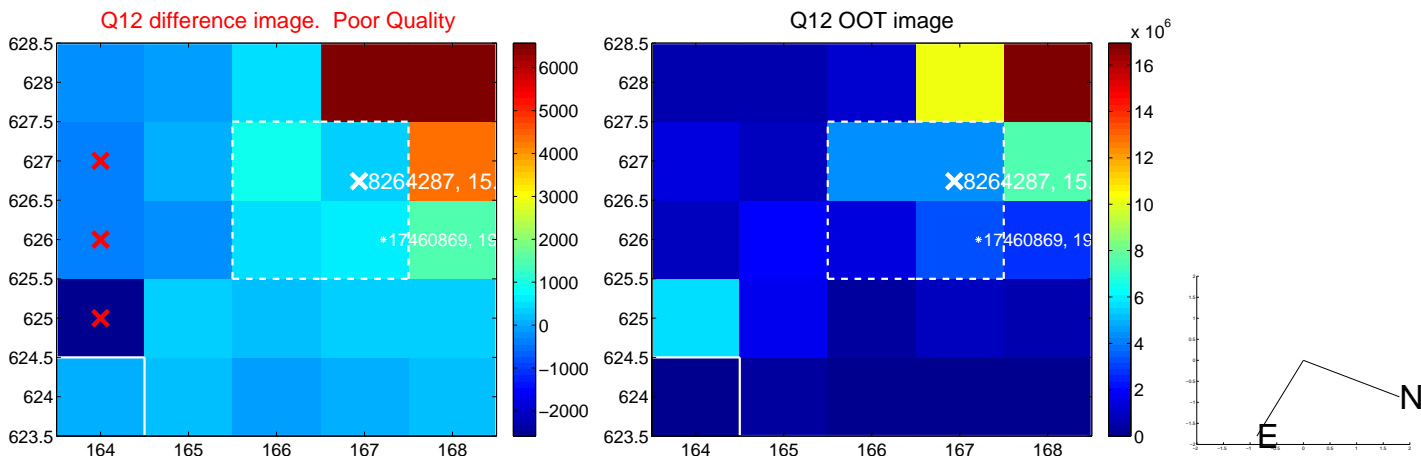
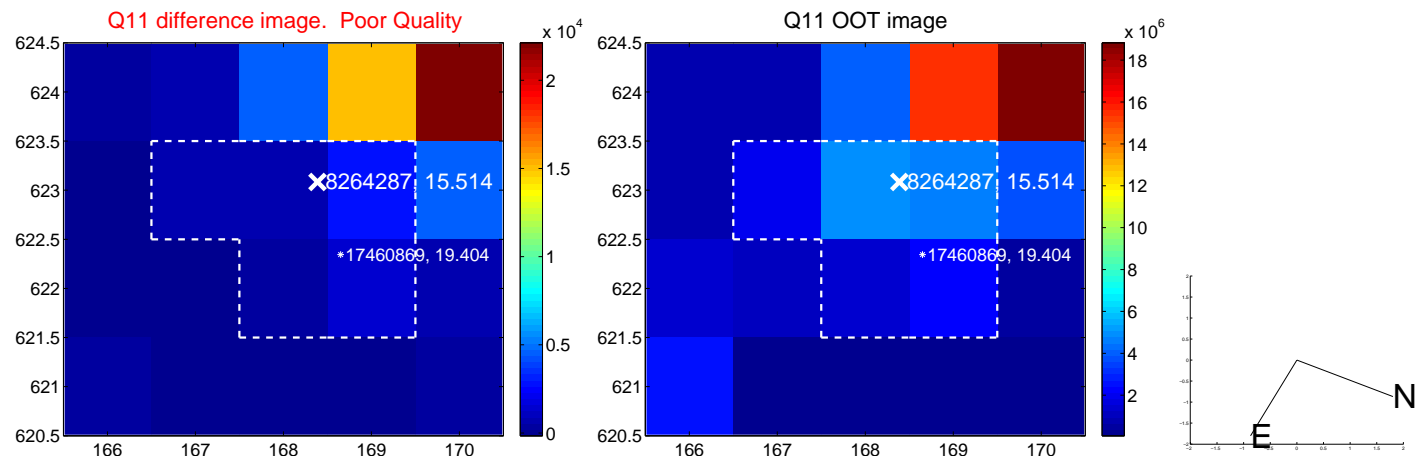
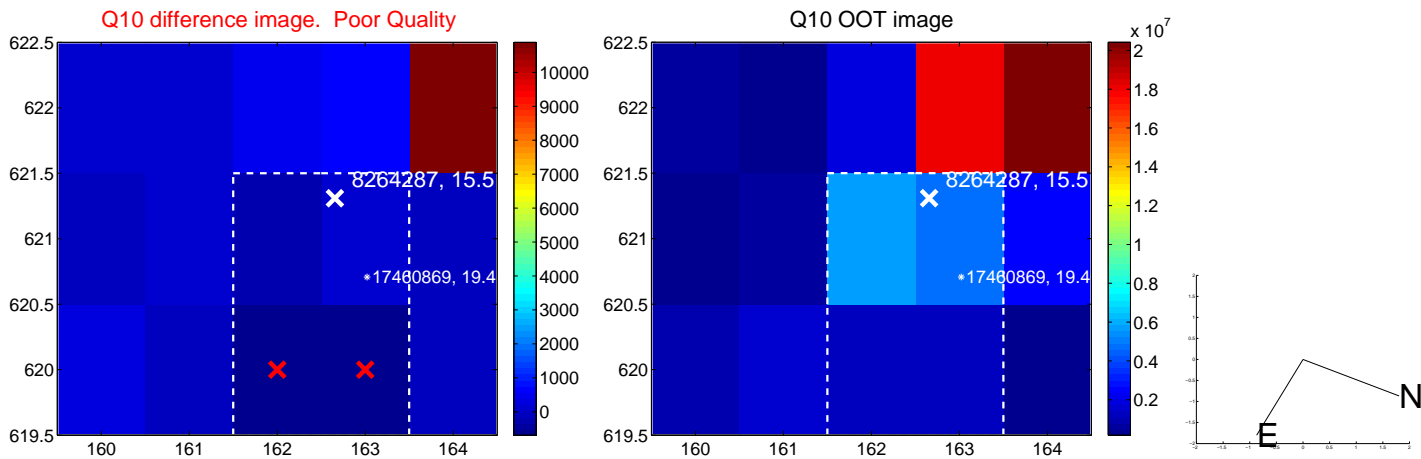
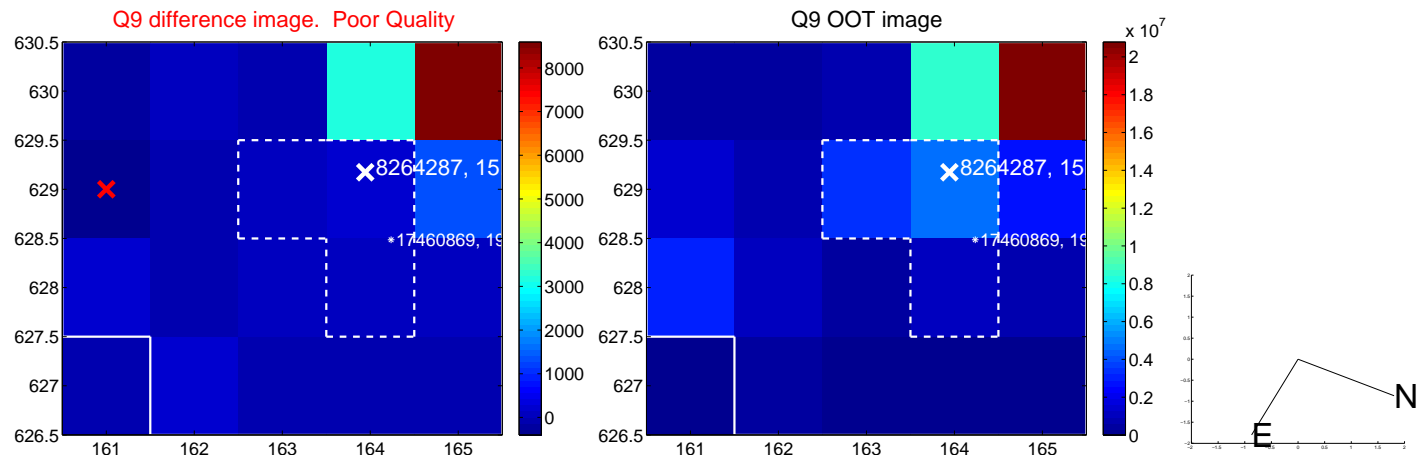
Q4 OOT image



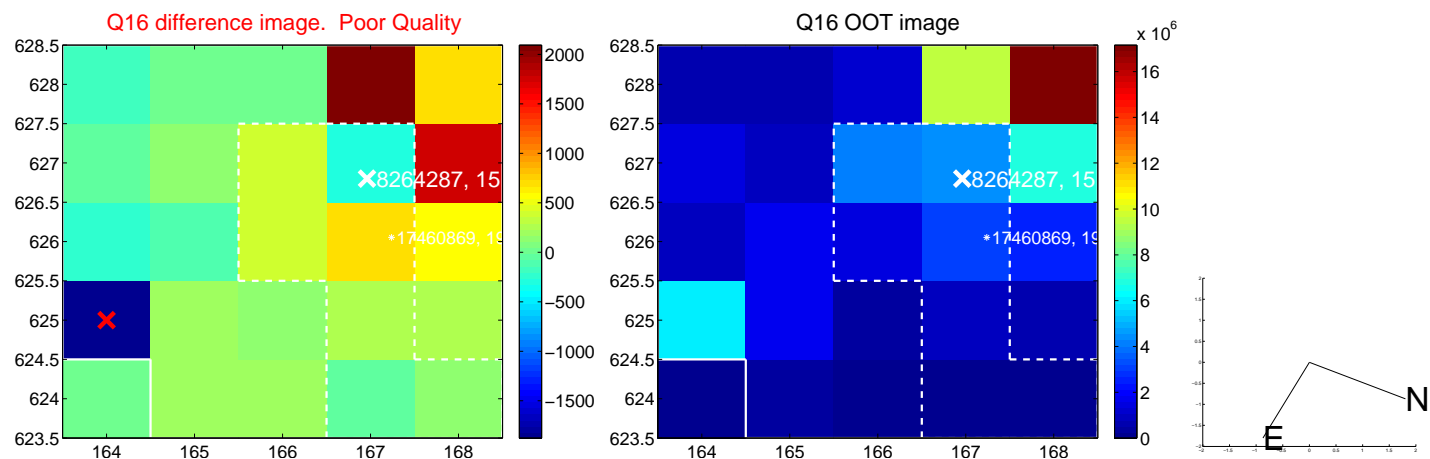
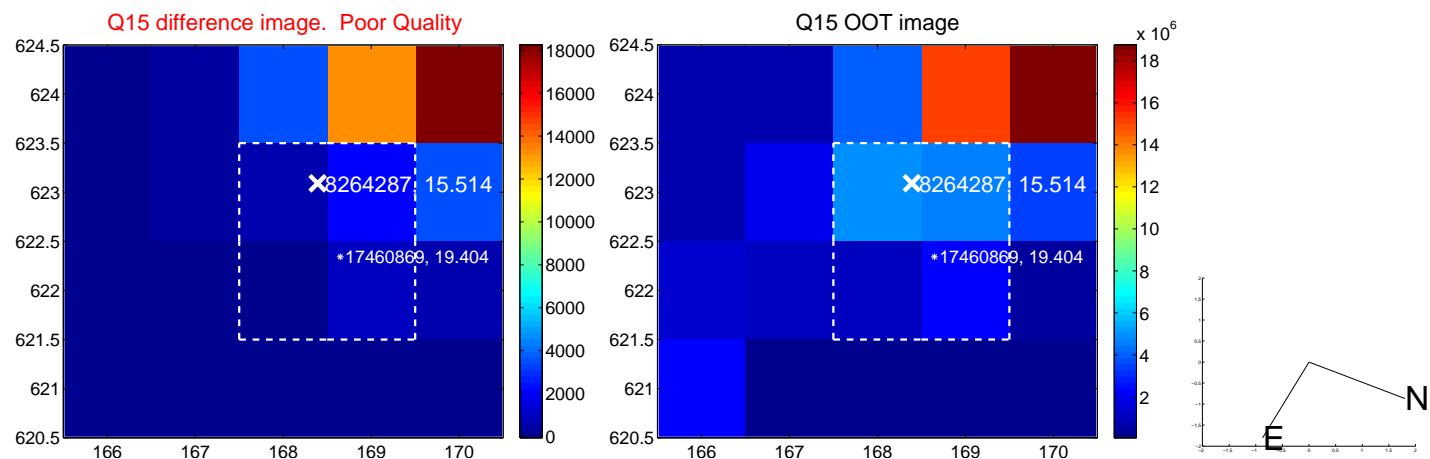
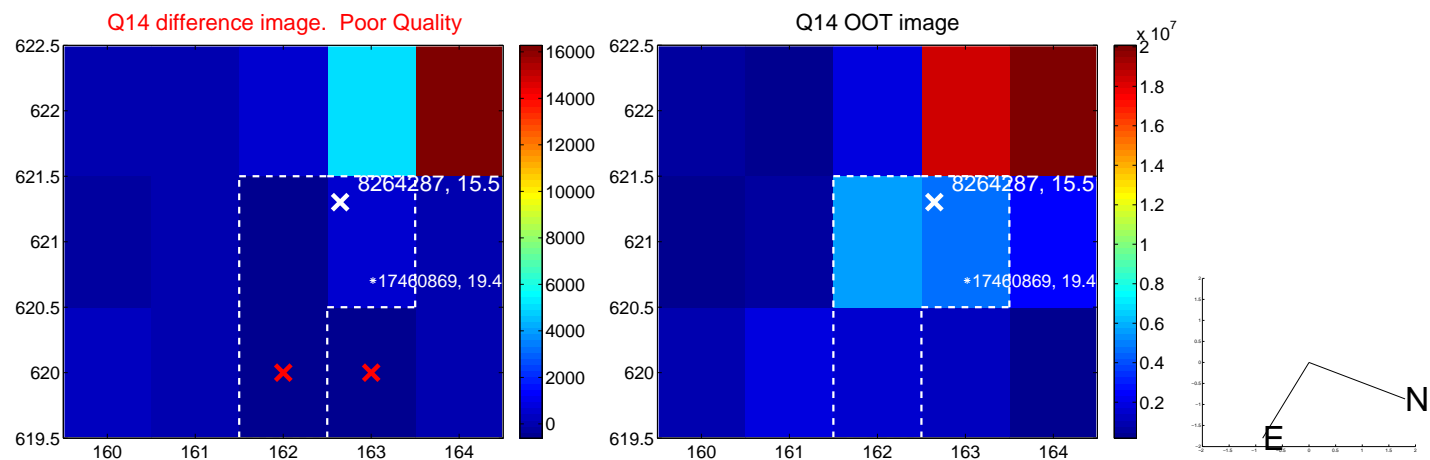
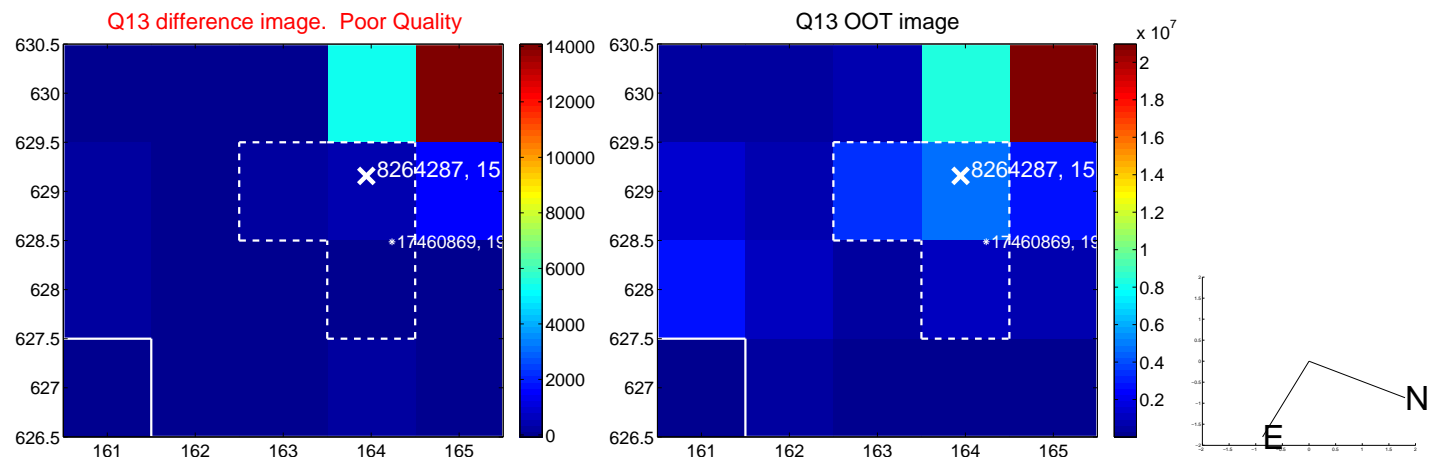
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



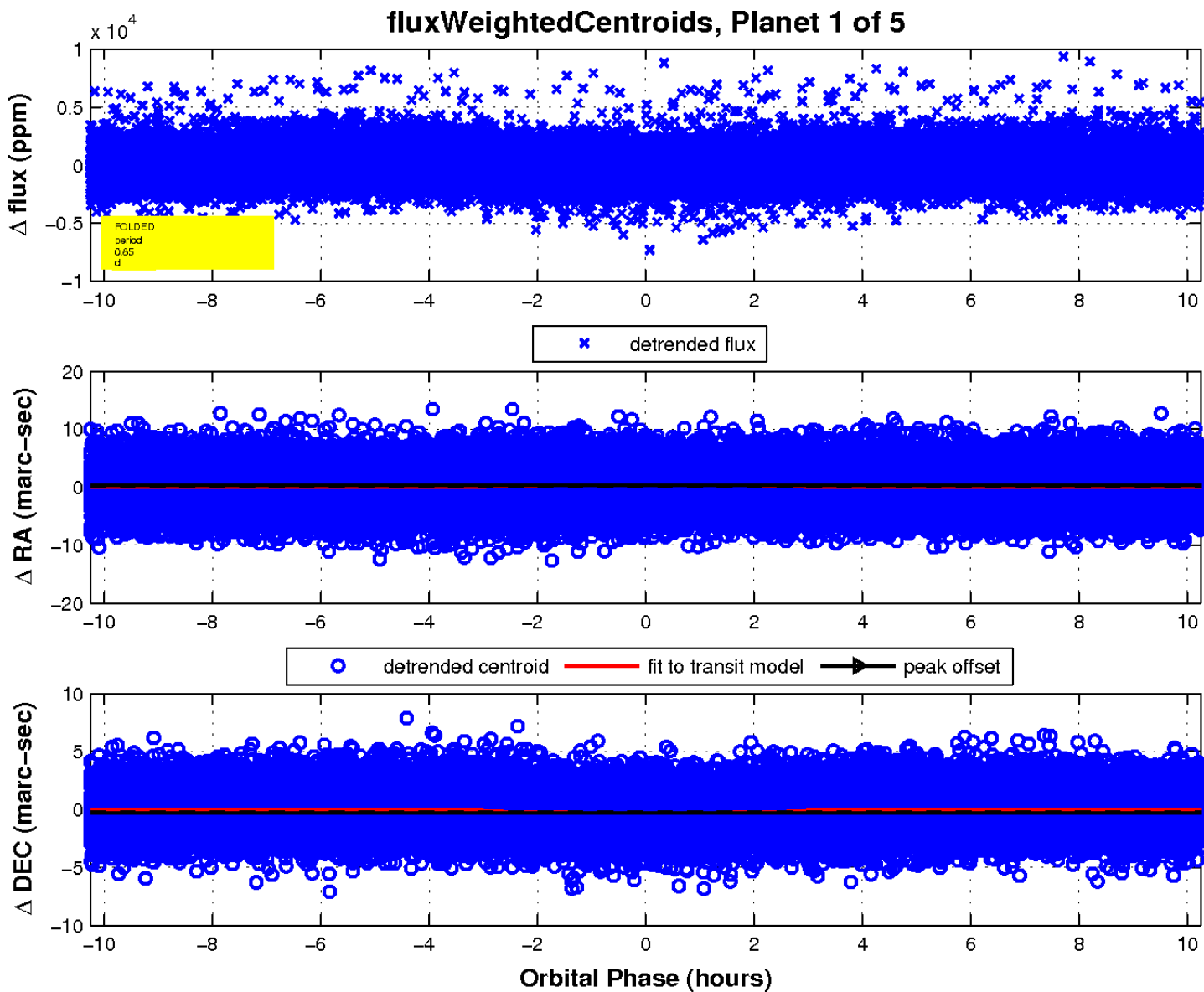
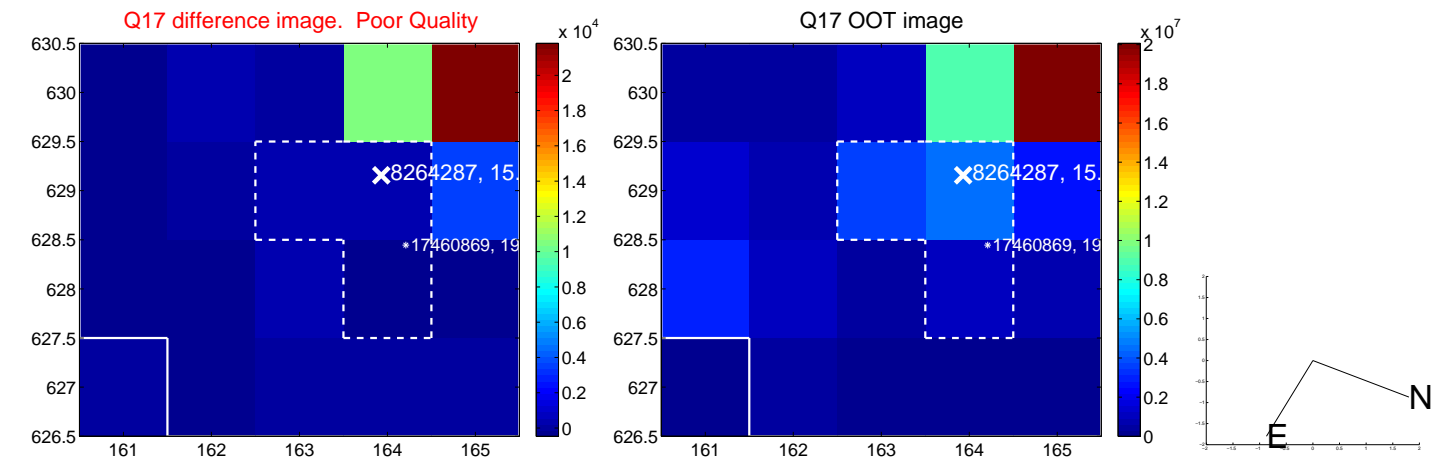
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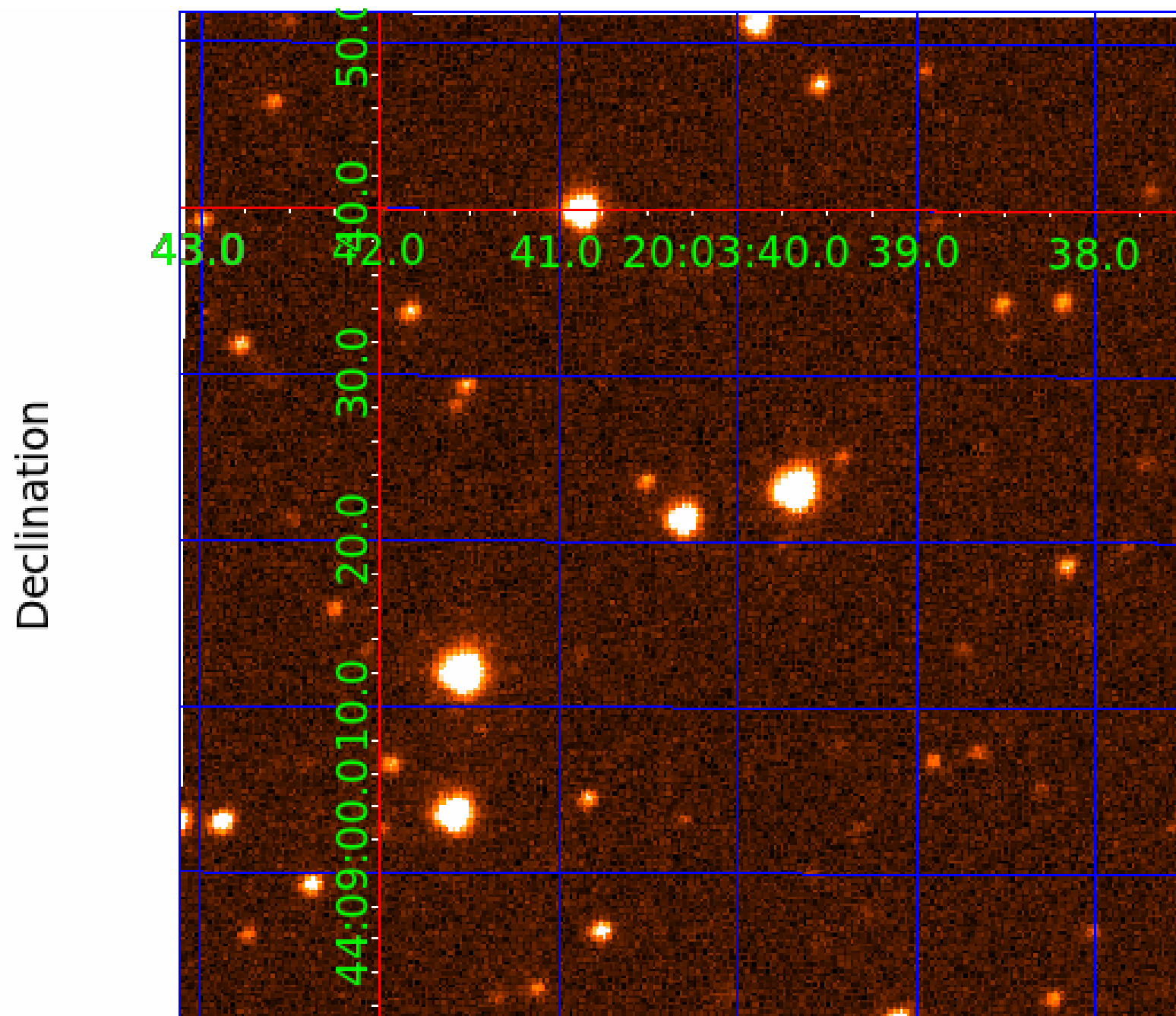
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UKIRT Image



KIC 008264287

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

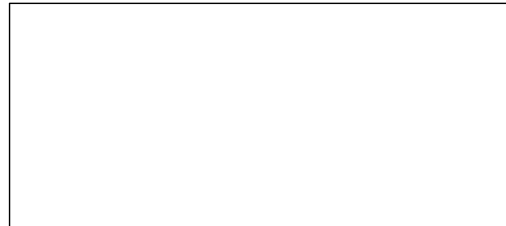
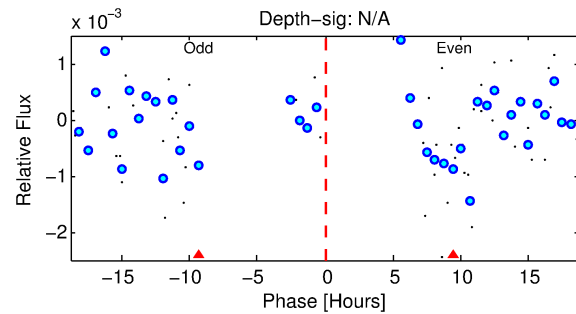
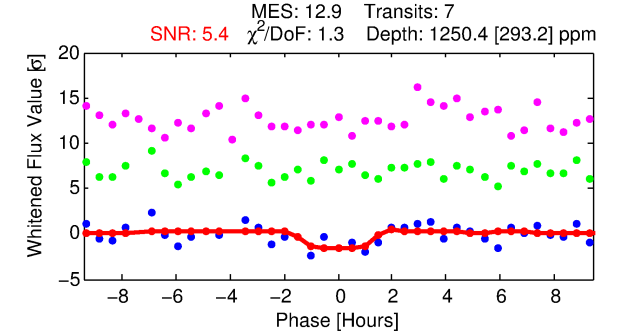
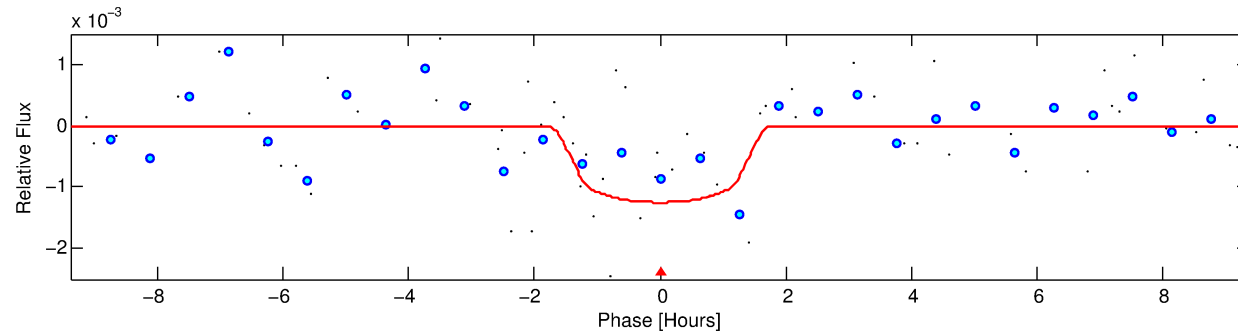
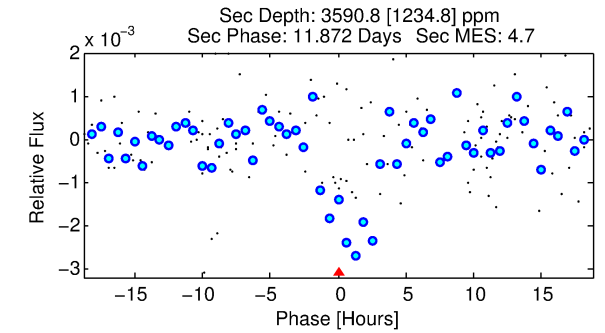
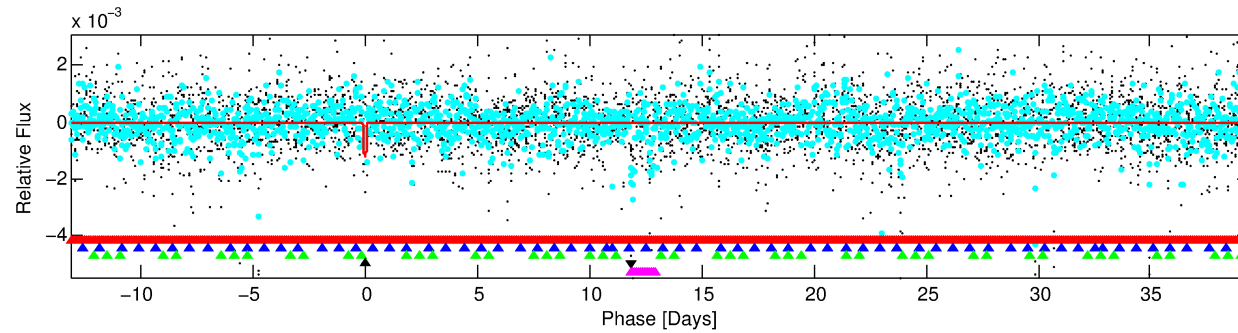
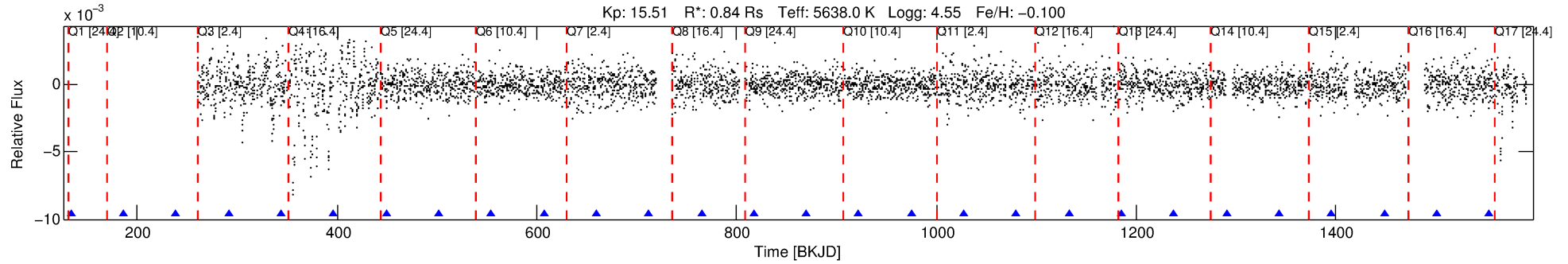
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264287-04

No Significant Match Found

DV One-Page Summary

KIC: 8264287 Candidate: 4 of 5 Period: 52.572 d



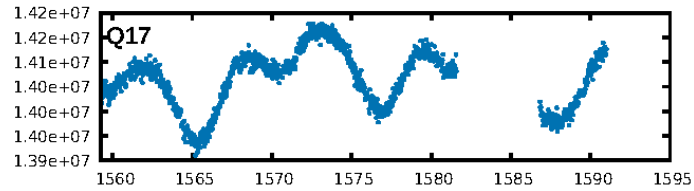
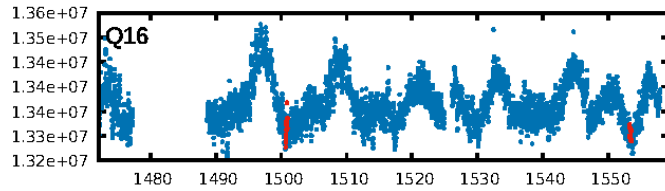
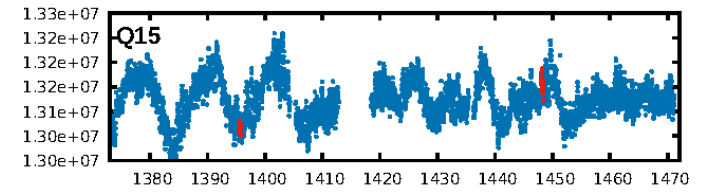
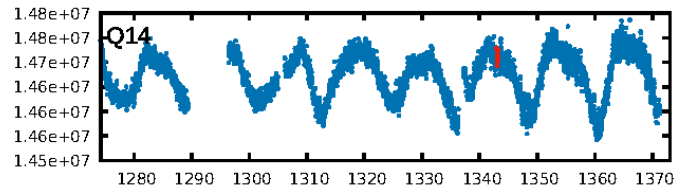
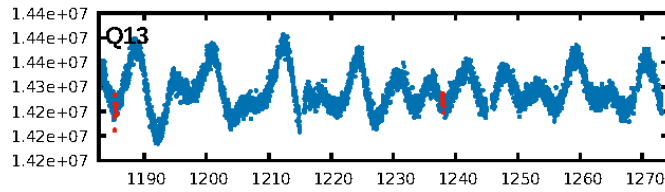
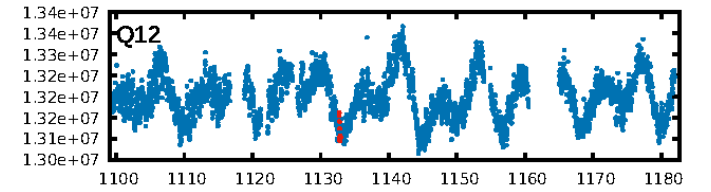
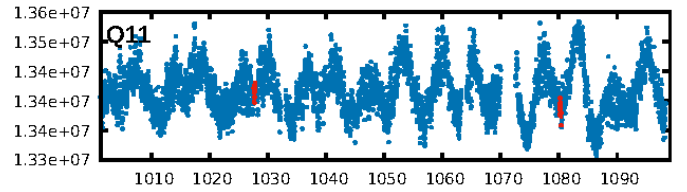
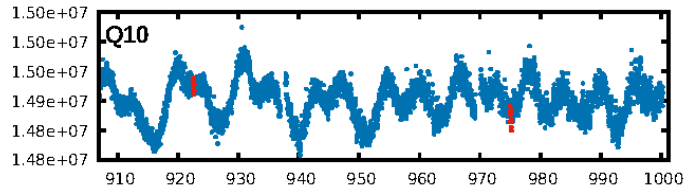
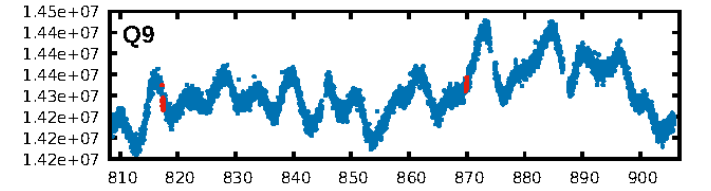
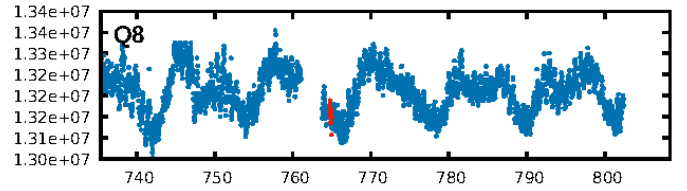
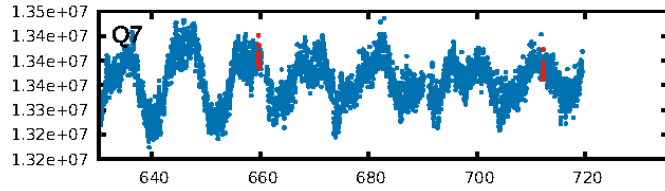
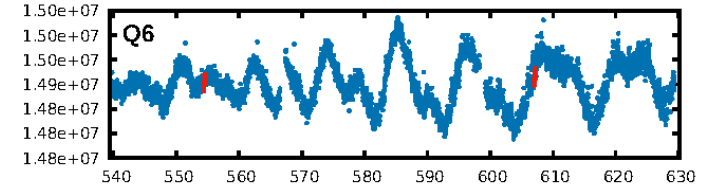
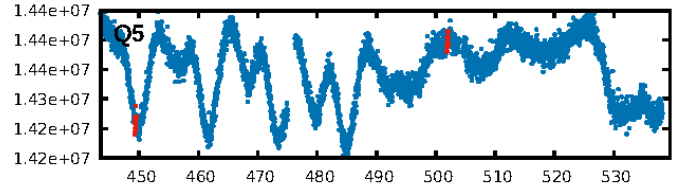
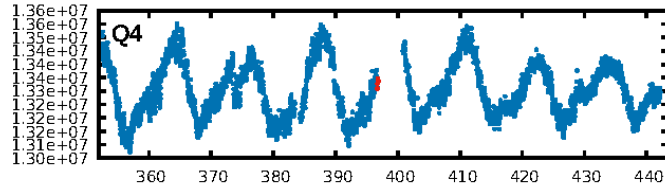
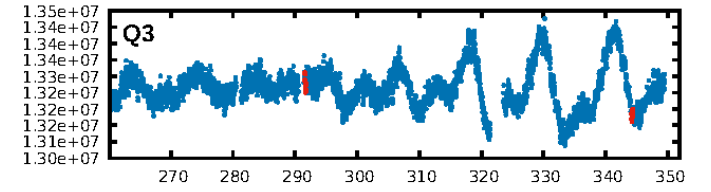
DV Fit Results:

Period = 52.57205 [0.00095] d
Epoch = 133.9597 [0.0184] BKJD
Rp/R* = 0.0346 [0.0562]
a/R* = 97.63 [661.35]
b = 0.70 [5.01]
Seff = 8.94 [3.16]
Teq = 441 [39] K
Rp = 3.18 [5.24] Re
a = 0.2680 [0.0616] AU
Ag = 14015.18 [45987.74] [0.30σ]
Teffp = 7417 [6059] K [1.15σ]

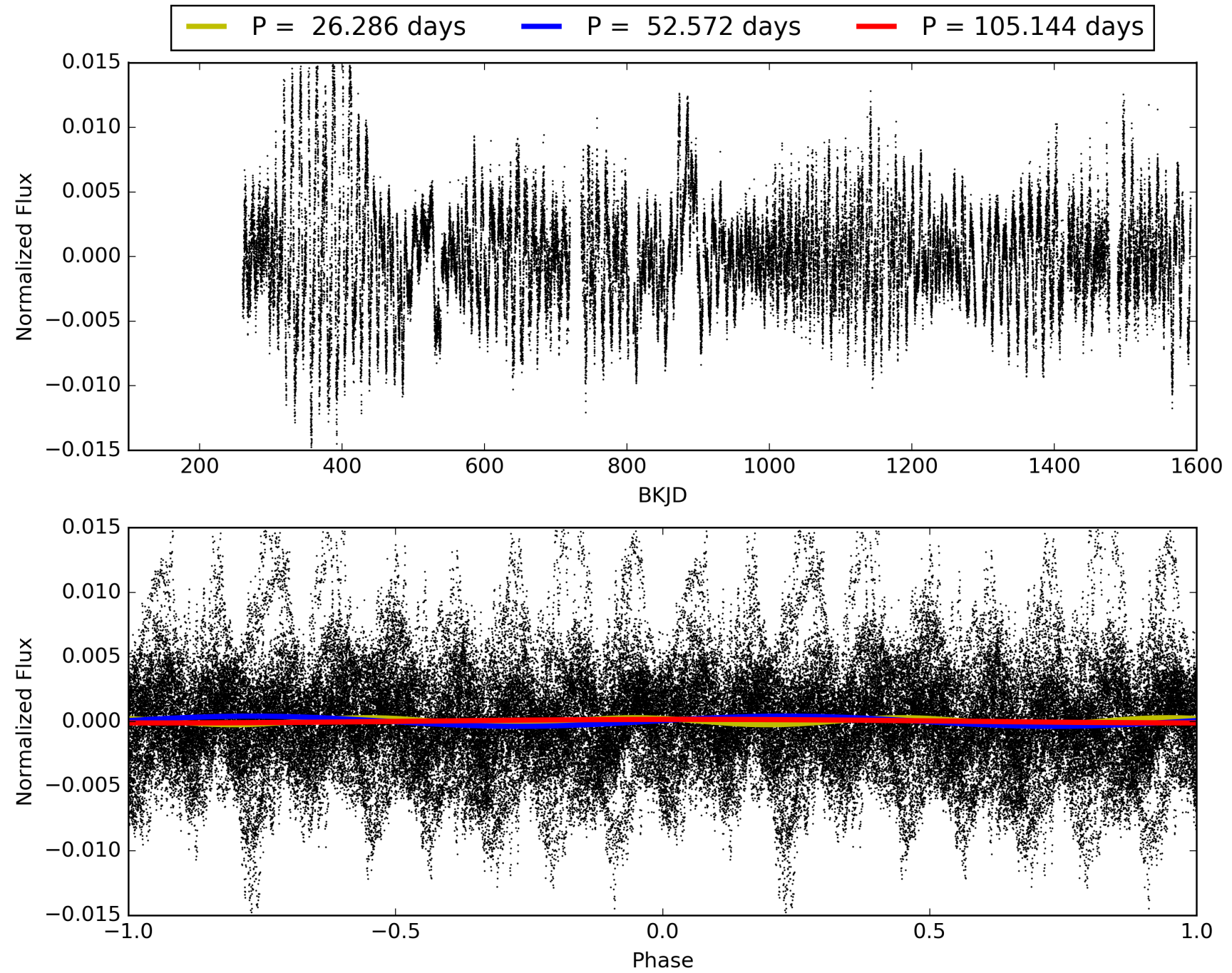
DV Diagnostic Results:

ShortPeriod-sig: 17.8% [0.23σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 18.5%
ModelChiSquareGoF-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: -0.08579
Centroid-sig: 97.3%
Centroid-so: 2.425 arcsec [4.15σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 0.00 [0/12]

TCE 008264287-04, PDC Light Curves

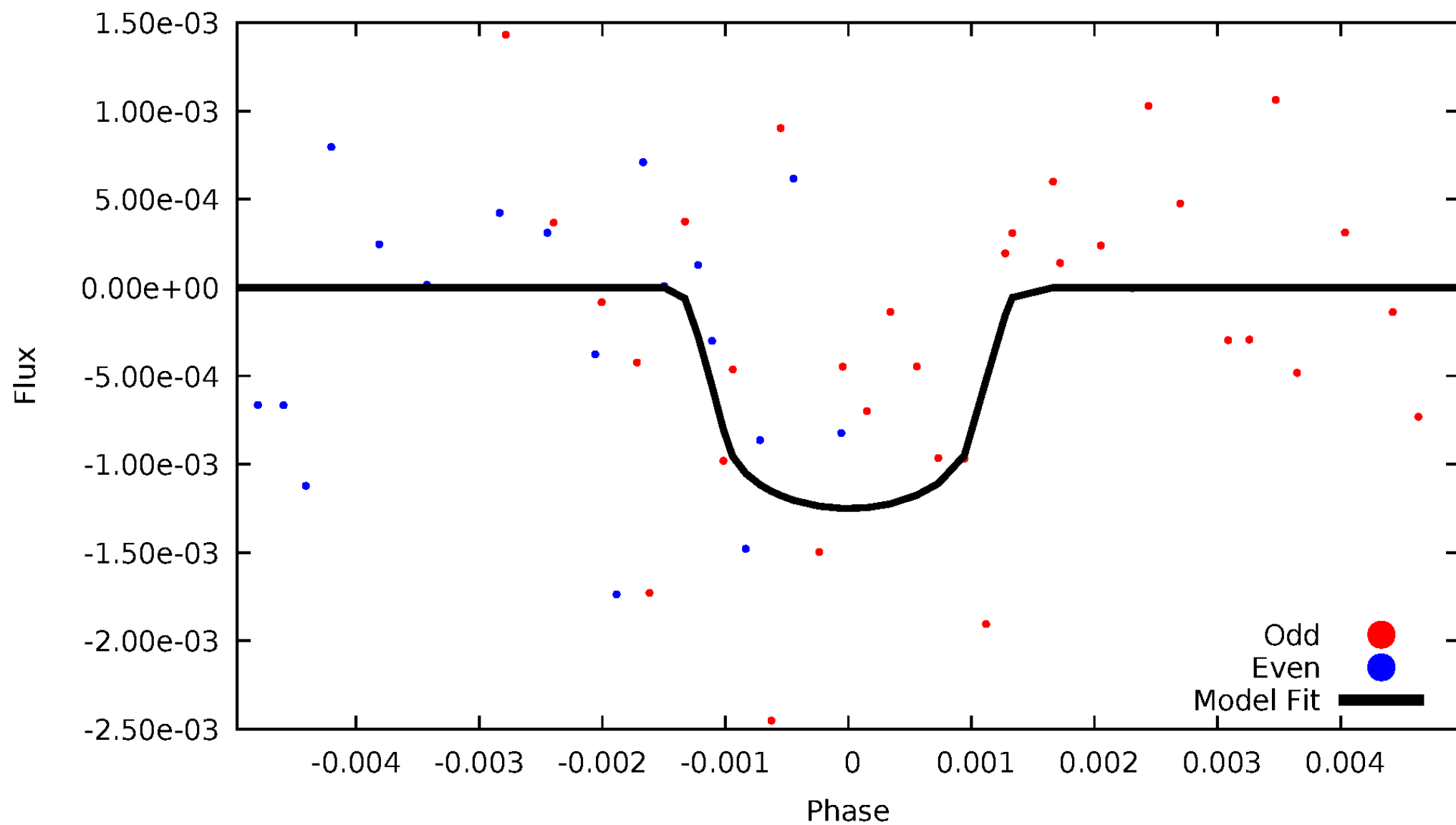


TCE 008264287-04



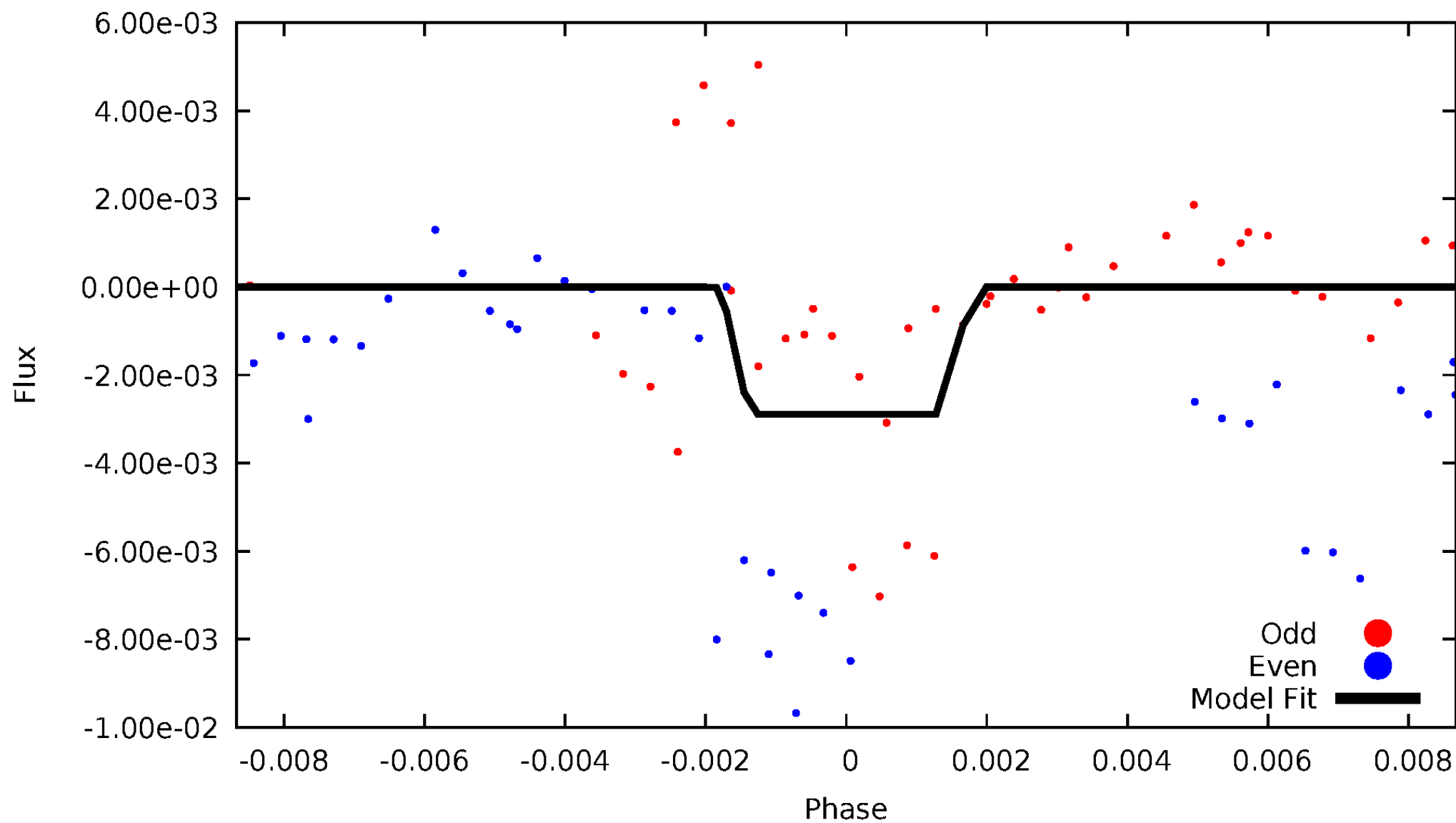
DV Odd/Even

TCE 008264287-04



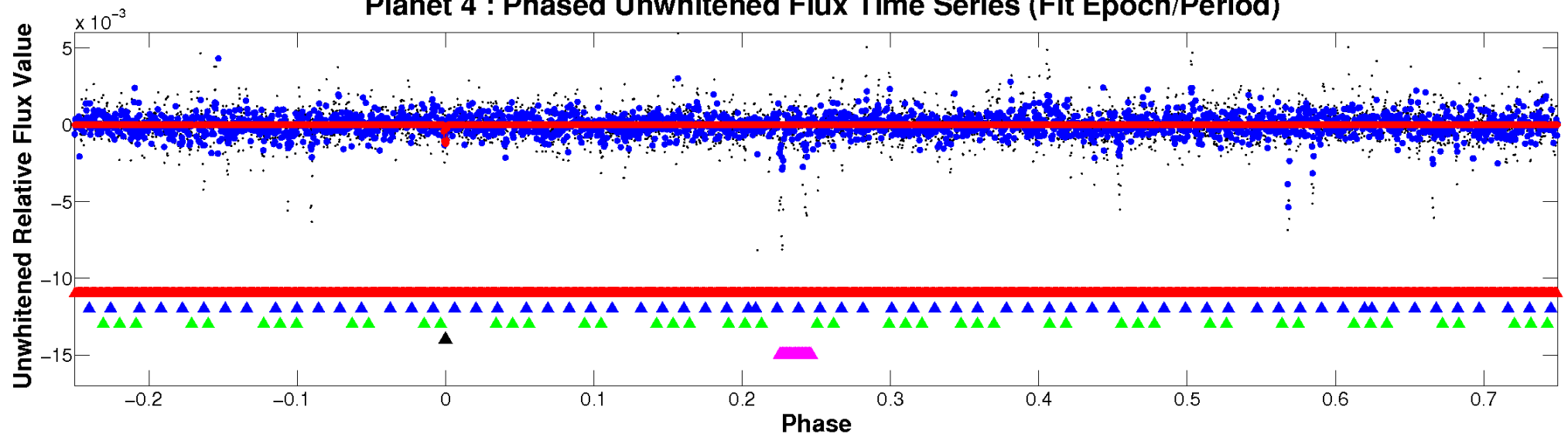
ALT Odd/Even

TCE 008264287-04

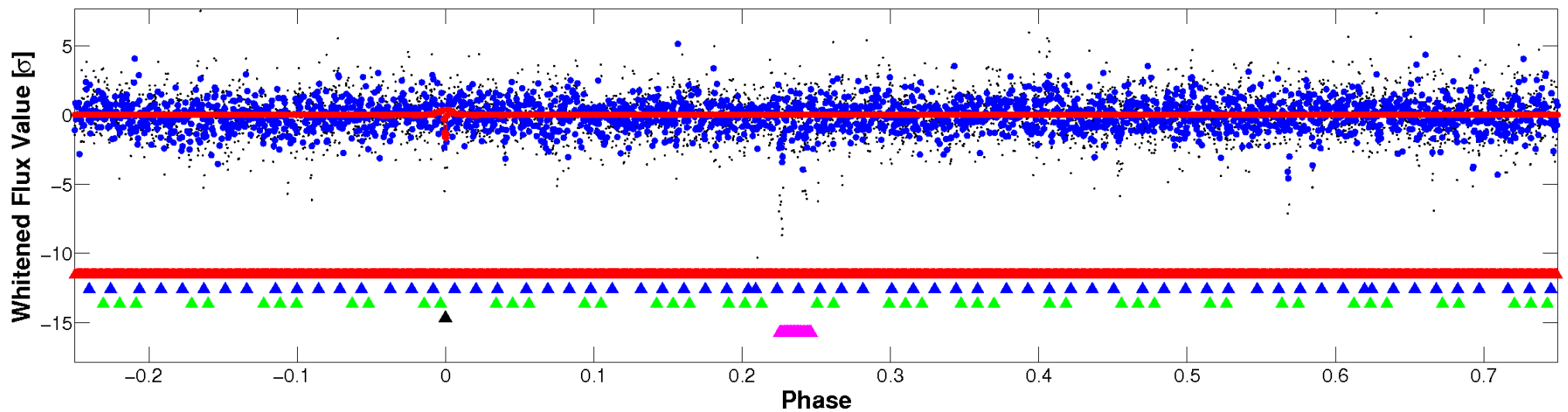


Non-Whitened Vs. Whitened Light Curve

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

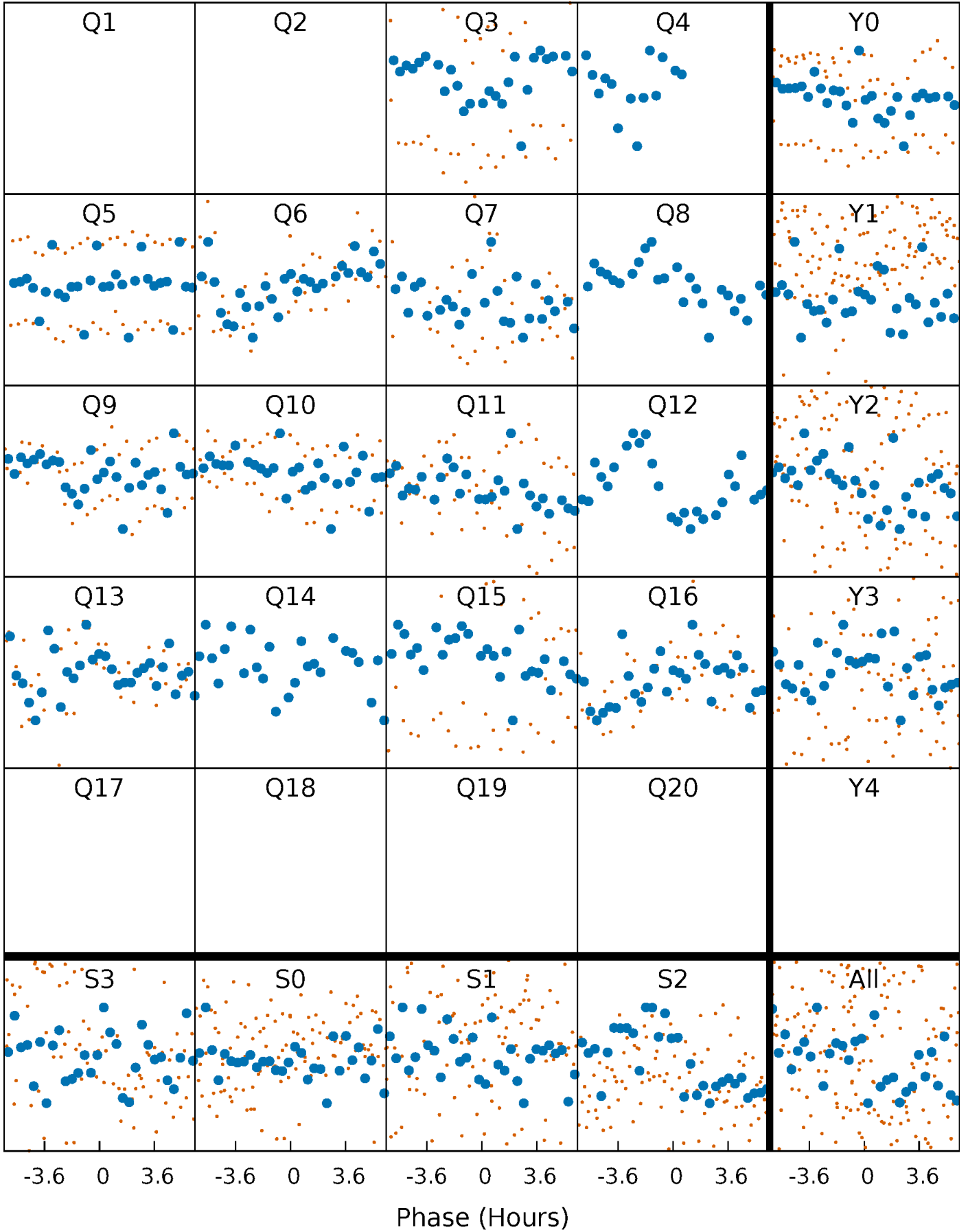


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



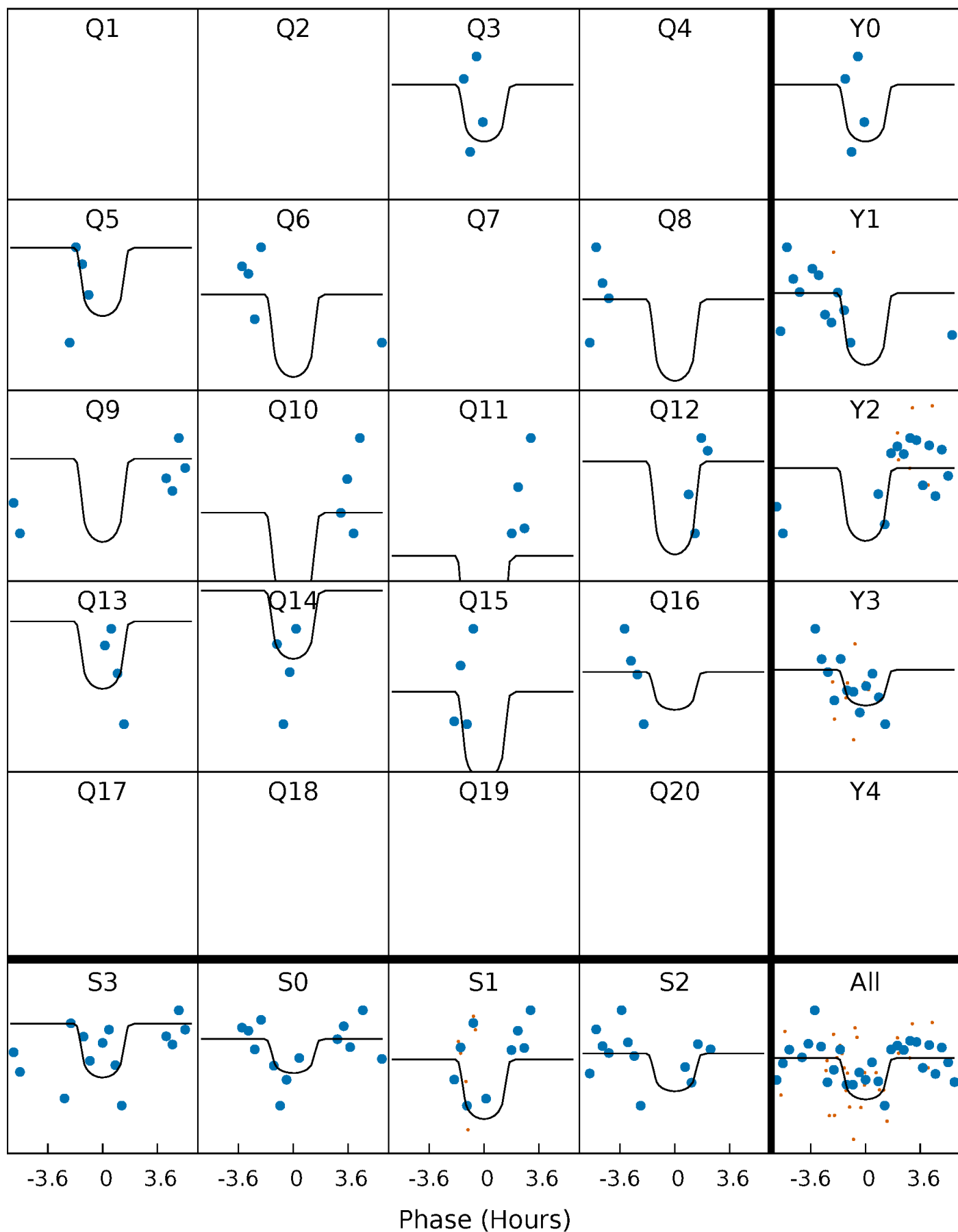
PDC Quarter-Phased Transit Curves

TCE 008264287-04 P= 52.572048 Days $T_0=133.959668$ (BKJD)



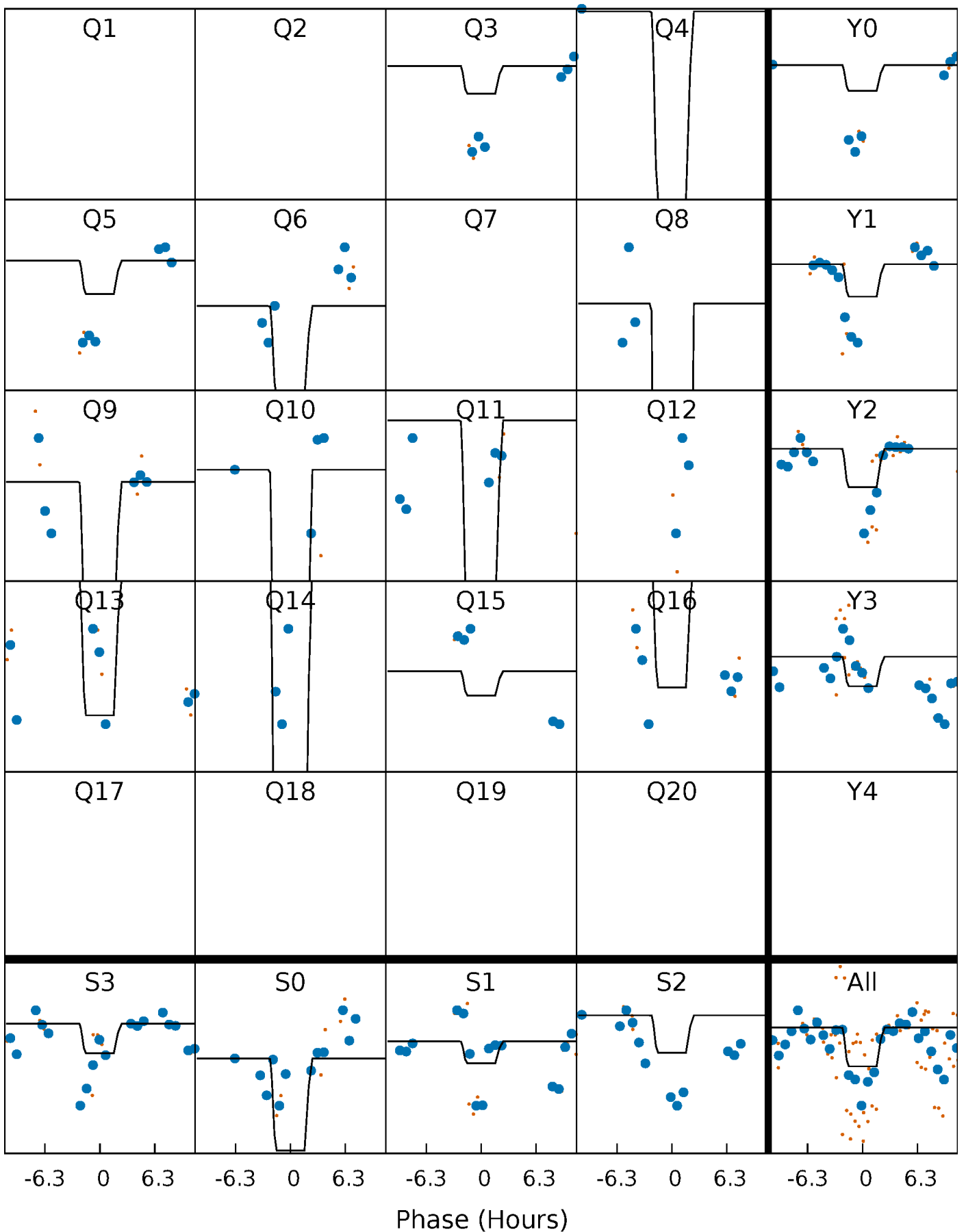
DV Quarter-Phased Transit Curves

TCE 008264287-04 P= 52.572048 Days $T_0=133.959668$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

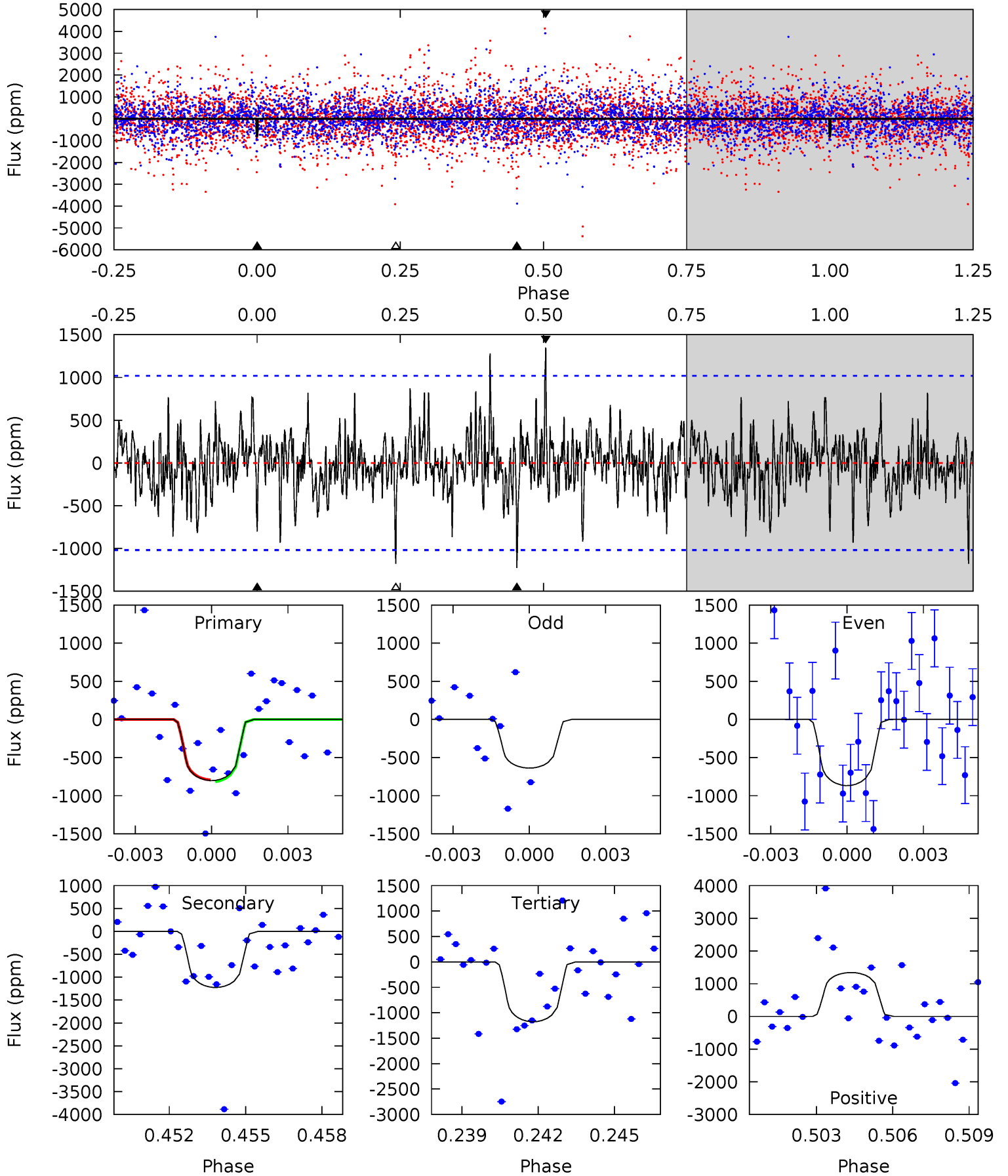
TCE 008264287-04 P= 52.574104 Days $T_0=133.945214$ (BKJD)



DV Model-Shift Uniqueness Test

008264287-04, P = 52.572048 Days, E = 133.959668 Days

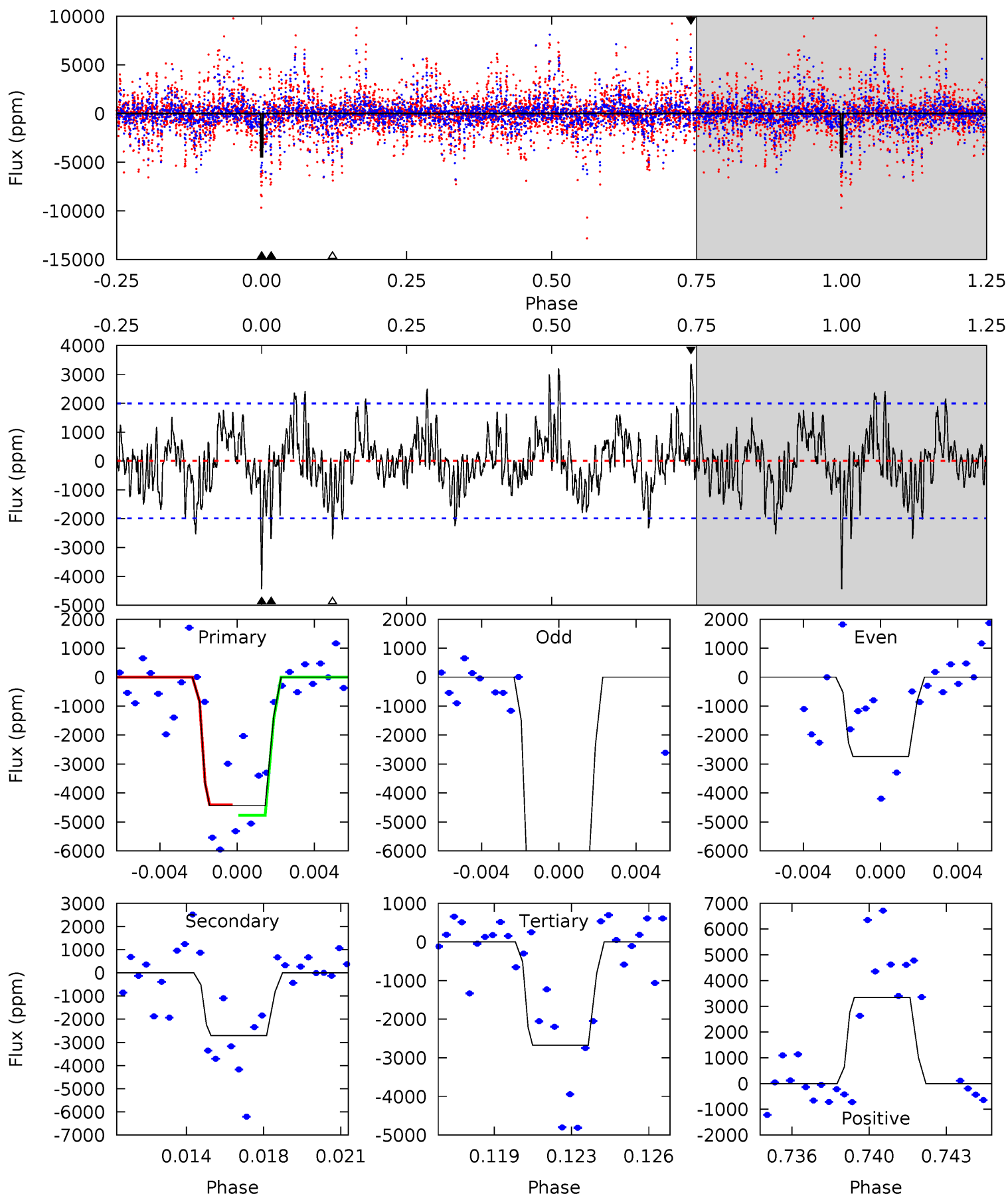
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.13	6.32	6.07	6.92	5.25	2.97	1.51	-1.94	-2.79	0.25	-0.60	0.51	0.91	0.52	0.06



Alt Model-Shift Uniqueness Test

008264287-04, P = 52.574104 Days, E = 133.945214 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.6	7.10	7.02	8.78	5.22	2.92	2.22	4.63	2.87	0.08	-1.68	5.65	1.55	0.43	0.45



Stellar Parameters For KIC 008264287

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5638^{+169}_{-186}	$4.555^{+0.044}_{-0.176}$	$-0.100^{+0.300}_{-0.300}$	$0.842^{+0.235}_{-0.073}$	$0.928^{+0.094}_{-0.104}$	$2.188^{+0.394}_{-1.060}$
	+3%/-3%	+1%/-4%	+300%/-300%	+28%/-9%	+10%/-11%	+18%/-48%
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 008264287-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1226 ± 194	$5.37^{+4.46}_{-3.59}$	627^{+40}_{-29}	4586^{+3267}_{-925}	1654^{+13484}_{-1186}
Alt.	-2705 ± 381	$6.31^{+5.04}_{-3.86}$	629^{+37}_{-29}	5117^{+3219}_{-1095}	2731^{+15213}_{-1914}

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

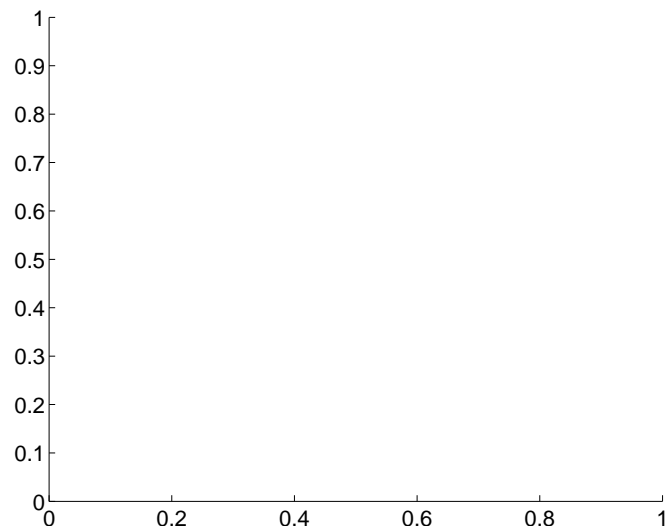
Supplemental centroid analysis for 008264287-04. Kepler magnitude: 15.51. Transit SNR 5.38

There are 0 quarters with good PRF difference image offsets

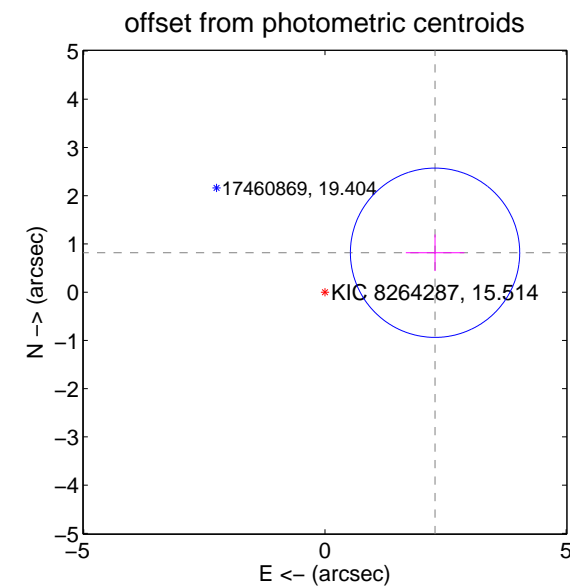
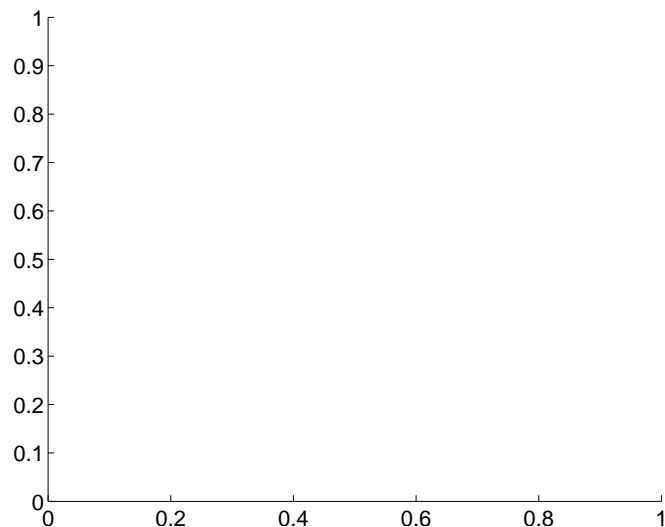
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	2.42 ± 0.58	4.15	-2.28 ± 0.61	0.82 ± 0.38

There is no PRF-fit offset from OOT-fit

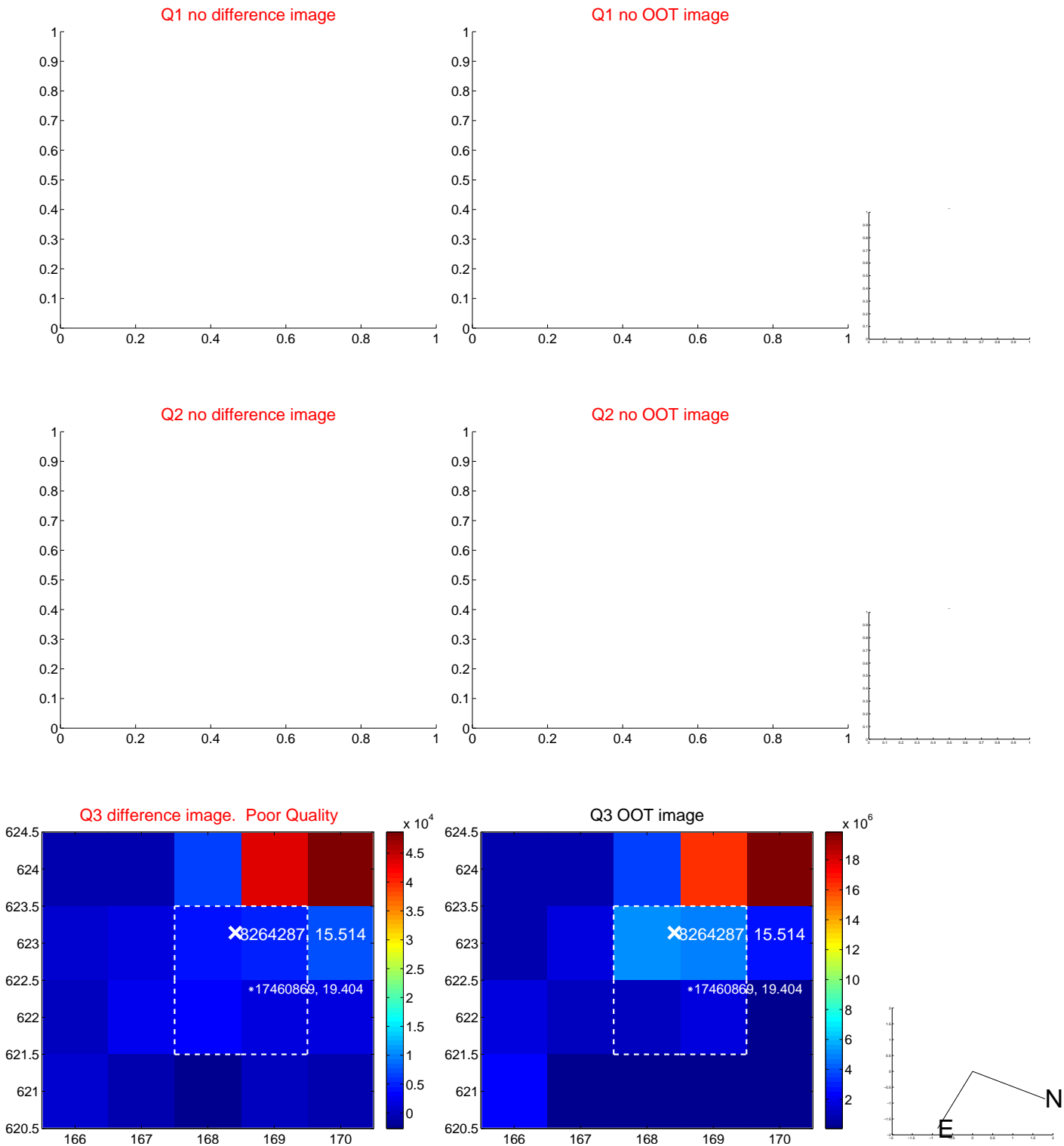


There is no PRF-fit offset from KIC

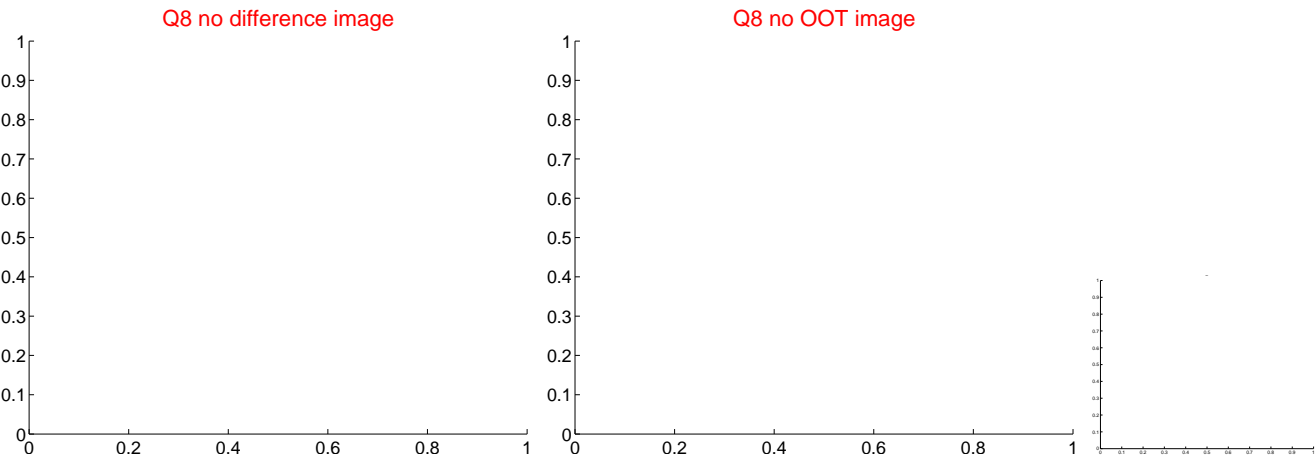
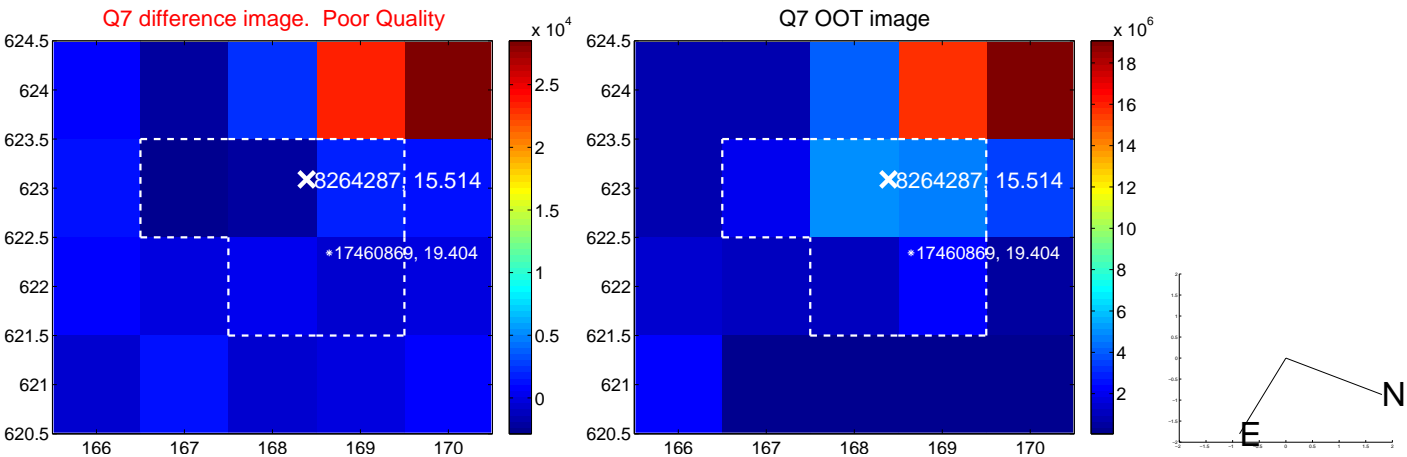
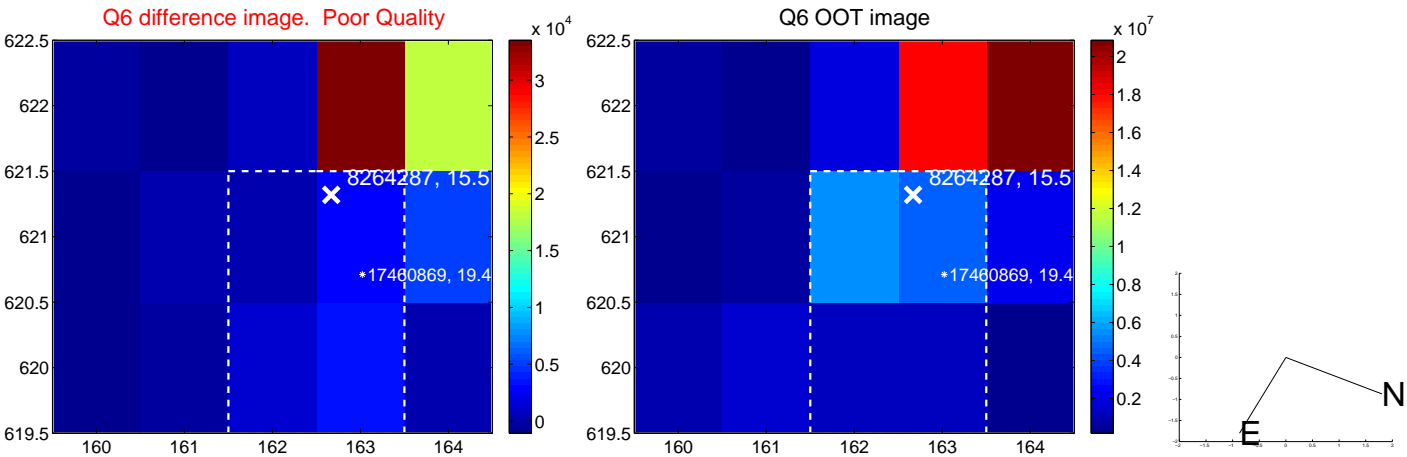
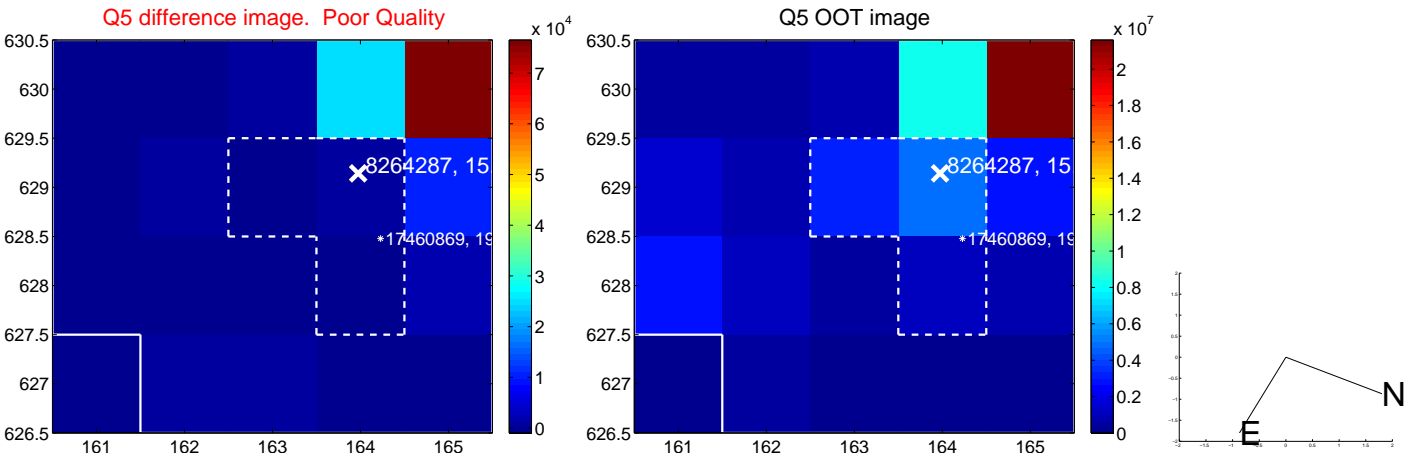


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

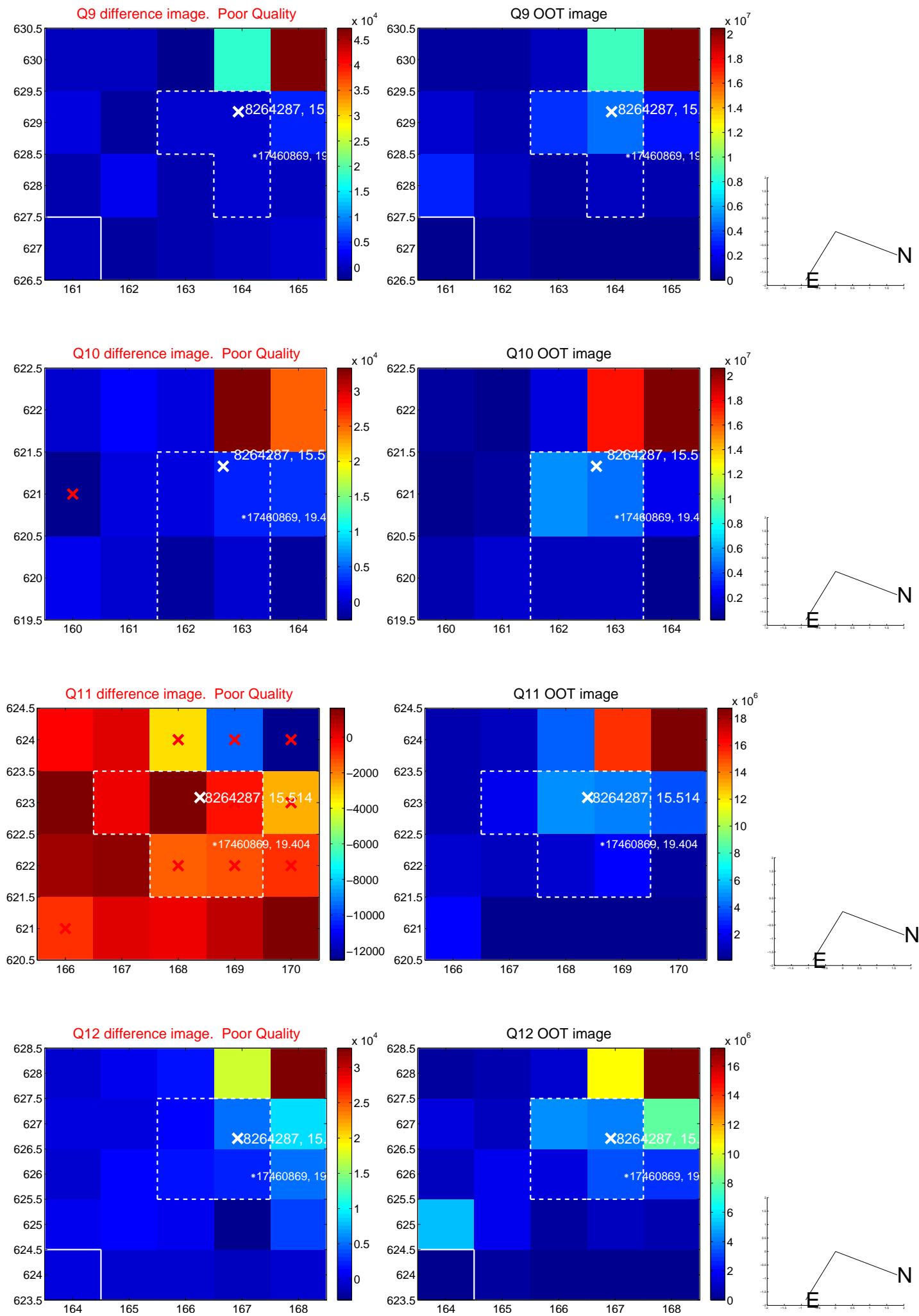
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



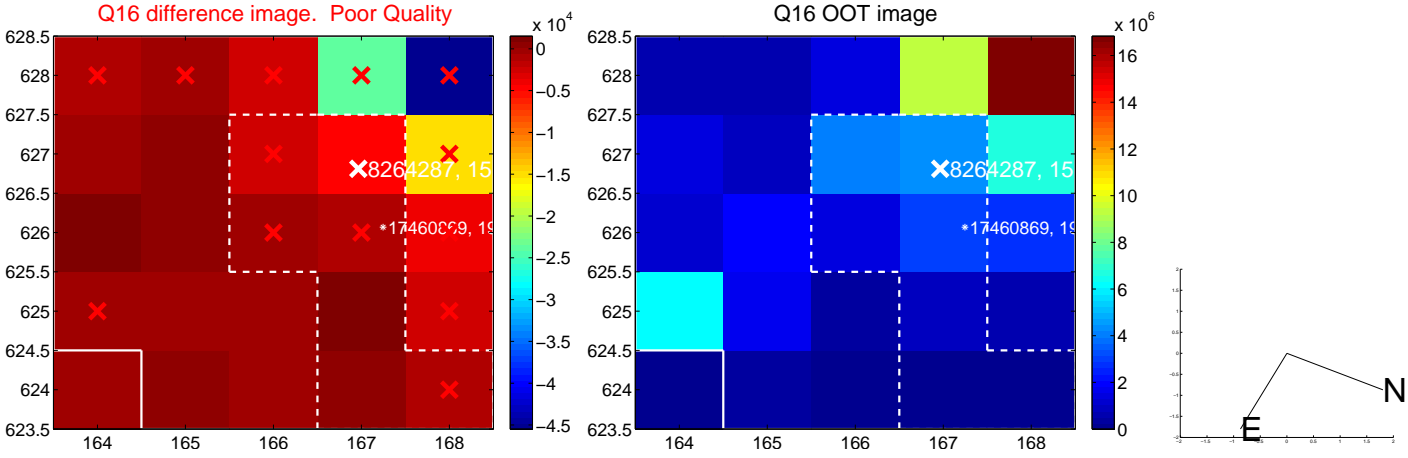
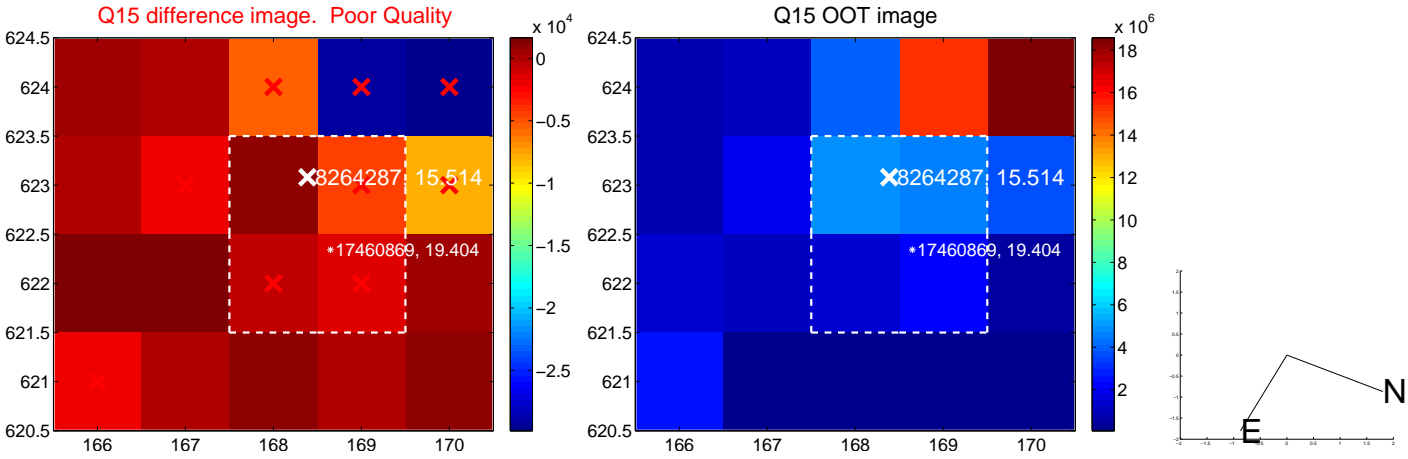
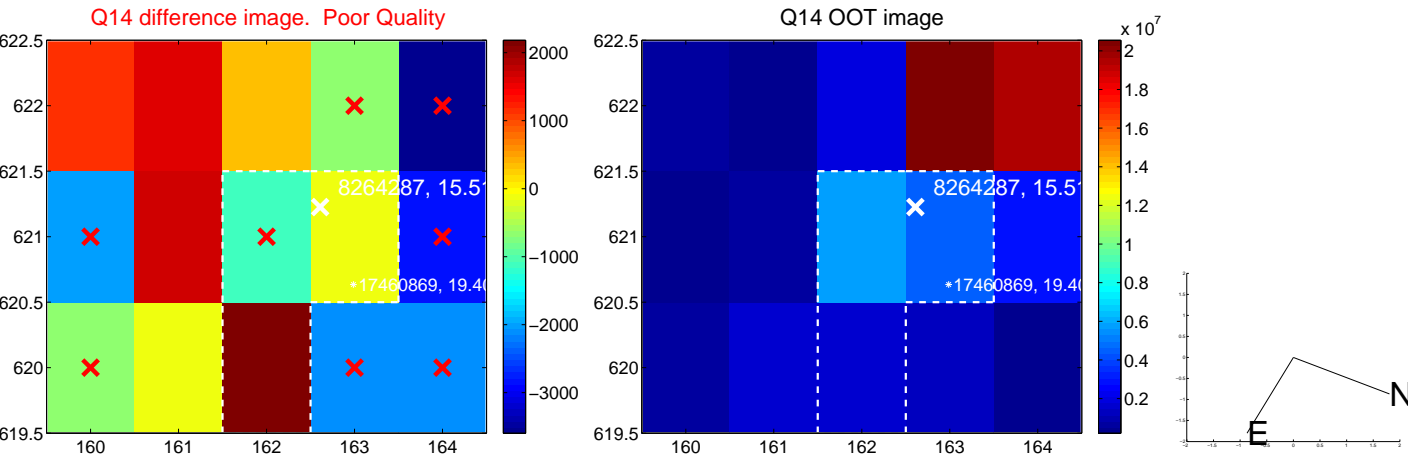
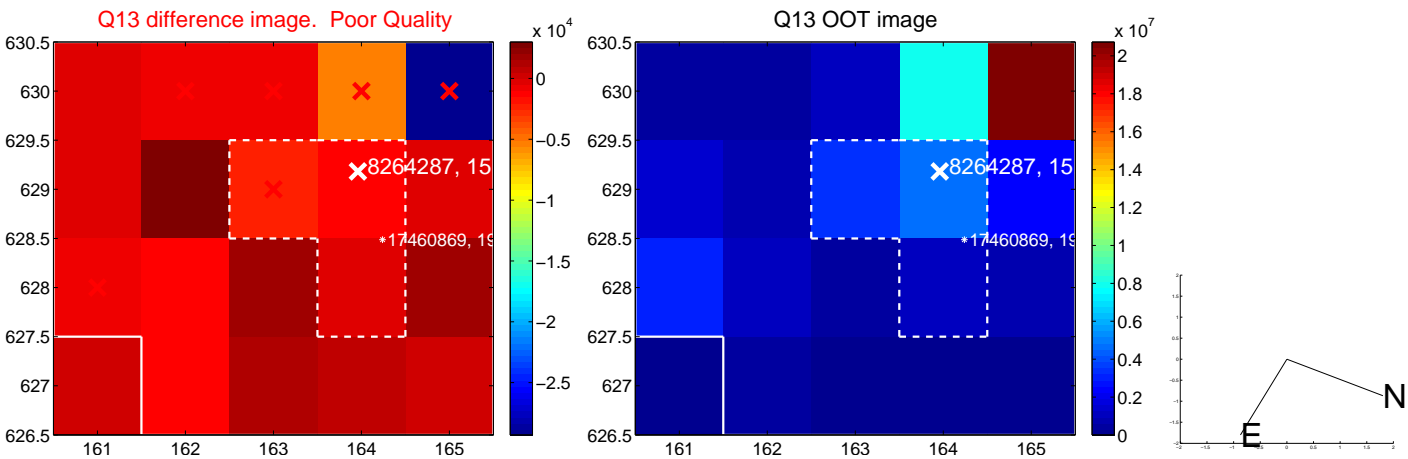
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



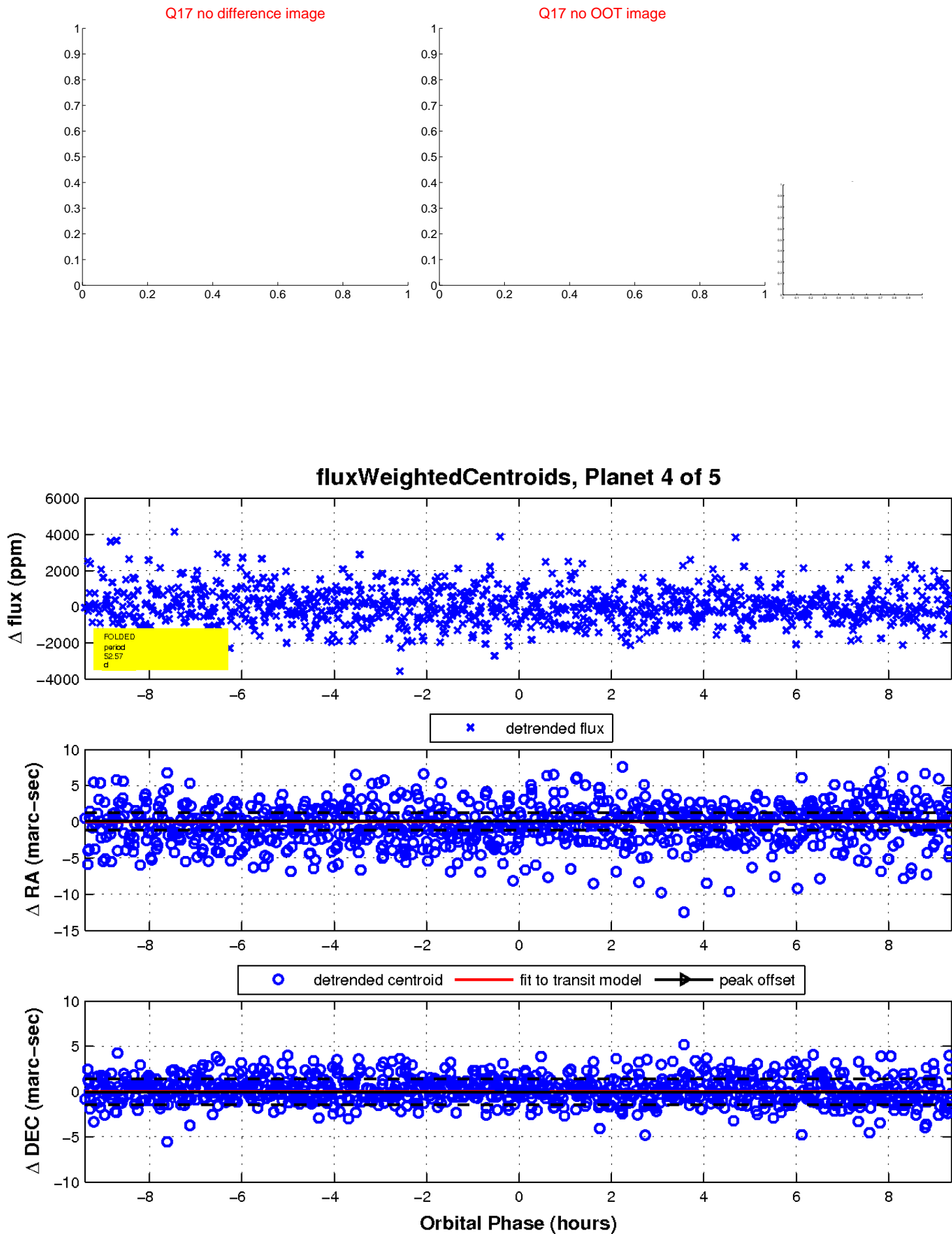
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



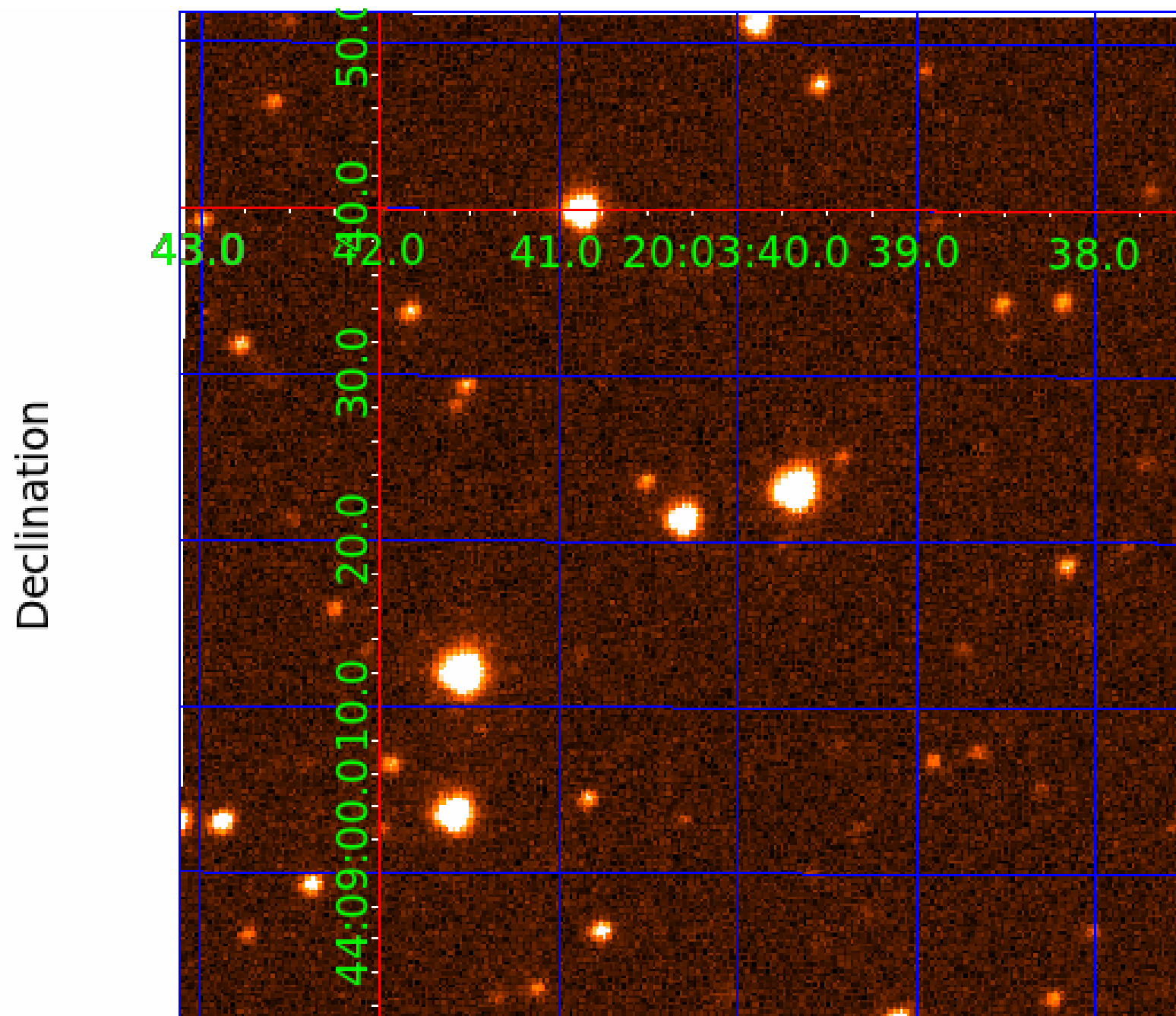
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 008264287

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})
008264287-01	OBS	No	0.854471	131.879124	152.1	6.018	7.6	11.3	0.84	5638	1.03	2171.07
008264287-04	OBS	No	52.572048	133.959668	1250.4	3.133	12.9	5.4	0.84	5638	3.18	8.94
008264287-05	OBS	No	52.531339	146.913281	4217.2	3.000	14.8	-1.0	0.84	5638	5.41	8.95

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264287-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_RESOLVED_OFFSET
008264287-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV— MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET—HALO_GHOST
008264287-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—CENT_NOFITS

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

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

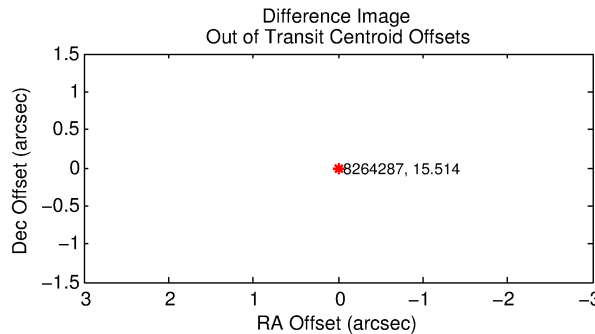
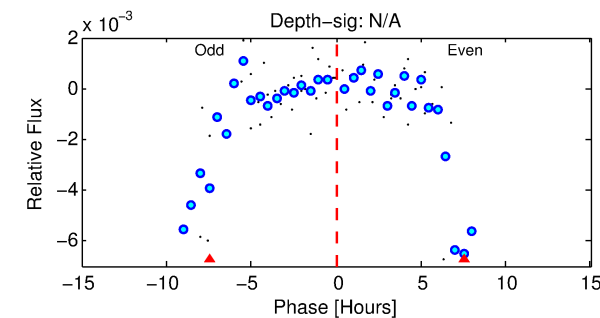
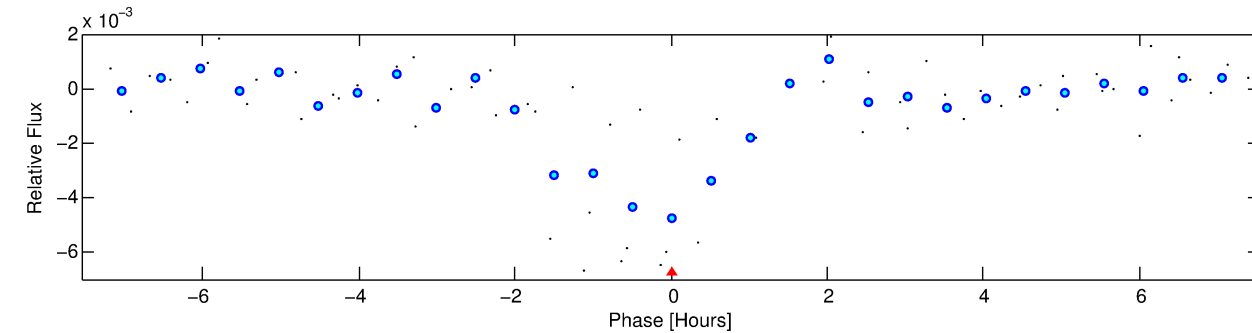
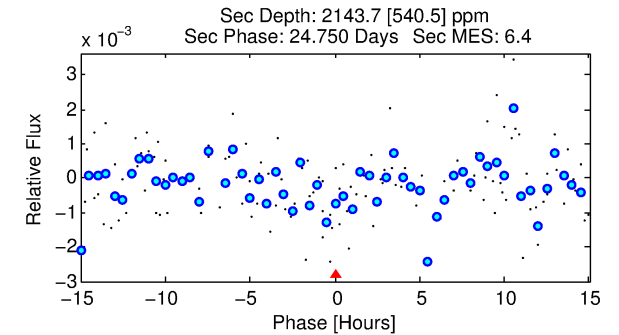
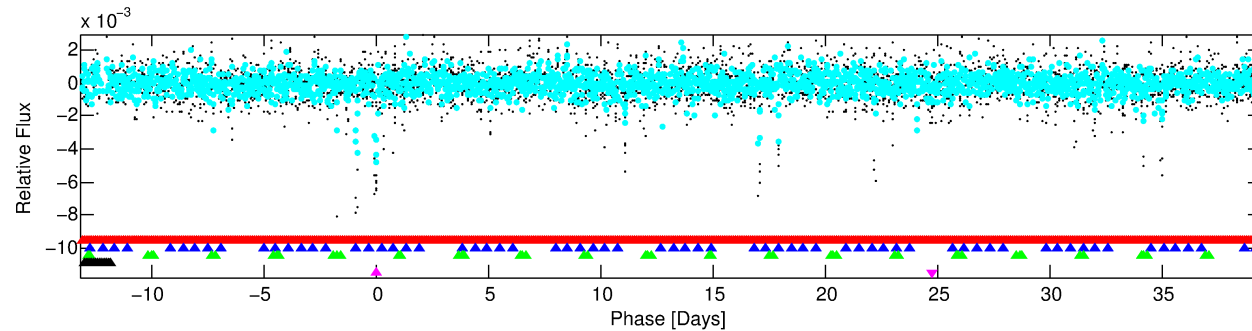
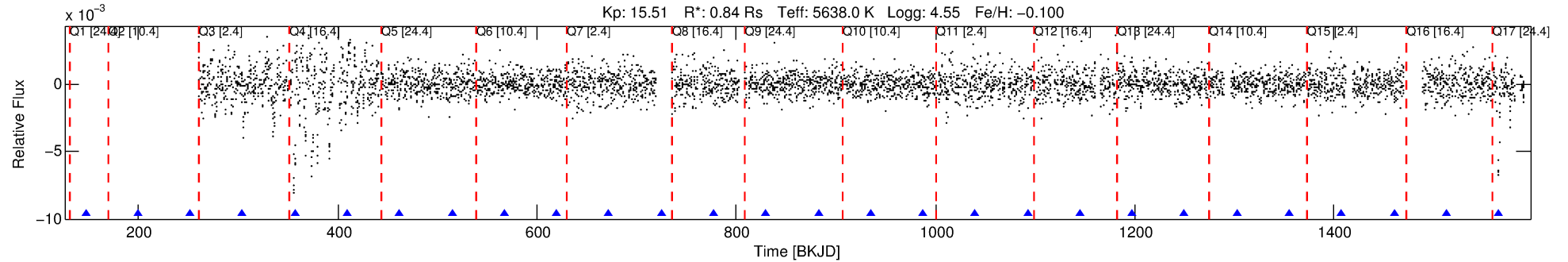
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264287-05

No Significant Match Found

DV One-Page Summary

KIC: 8264287 Candidate: 5 of 5 Period: 52.531 d



TPS TCE Results:

Period = 52.53134 d
Epoch = 146.9133 BKJD

DV fit results are unavailable

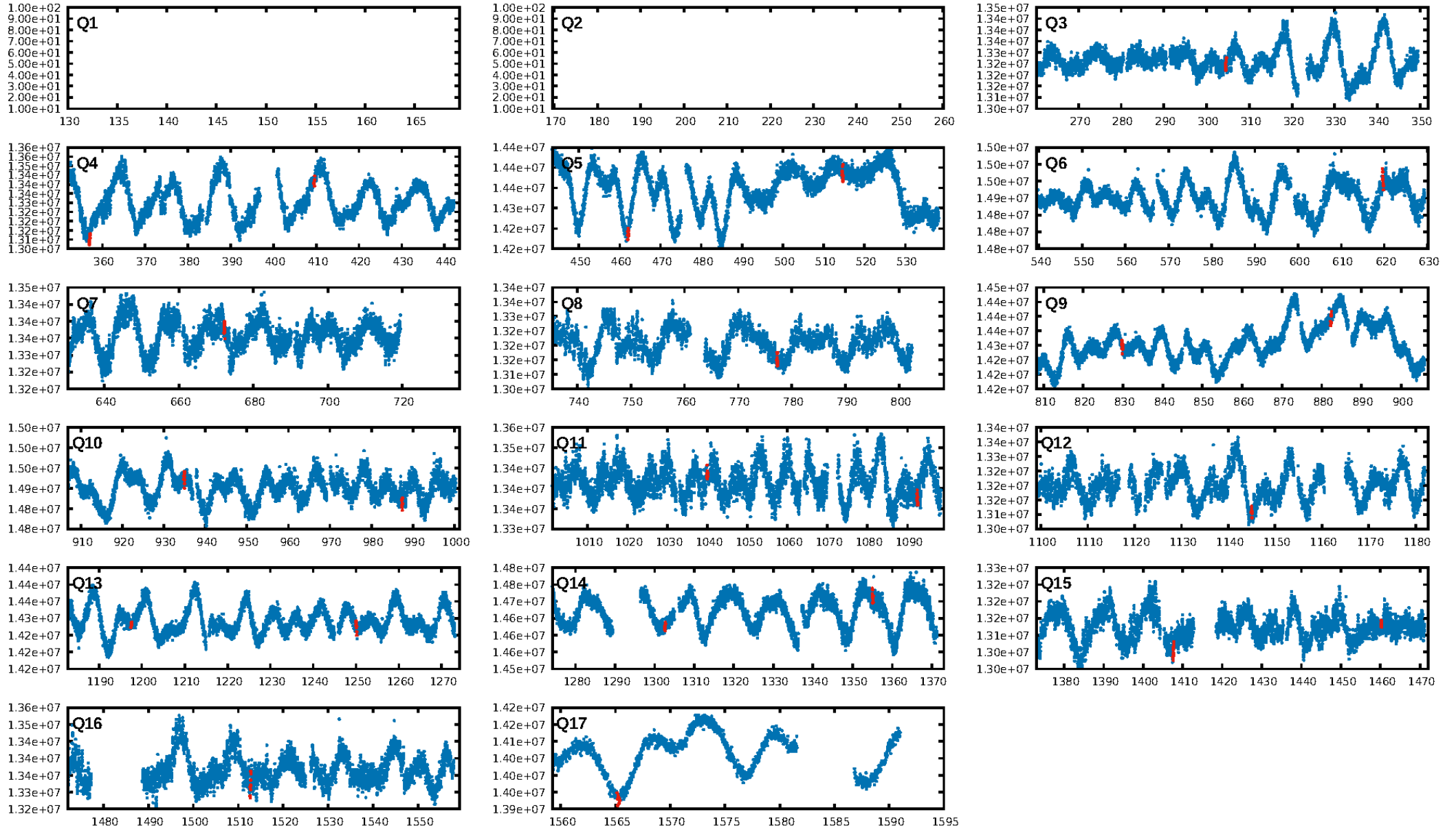
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [144.14σ]
LongPeriod-sig: 17.8% [0.23σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.392
Centroid-sig: 71.6%
Centroid-so: 2.308 arcsec [24.10σ]
OotOffset-rm: N/A
KicOffset-rm: 2.126 arcsec [4.81σ]
OotOffset-st: 0/0/0 [0]
KicOffset-st: 1/0/0 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 0.00 [0/15]

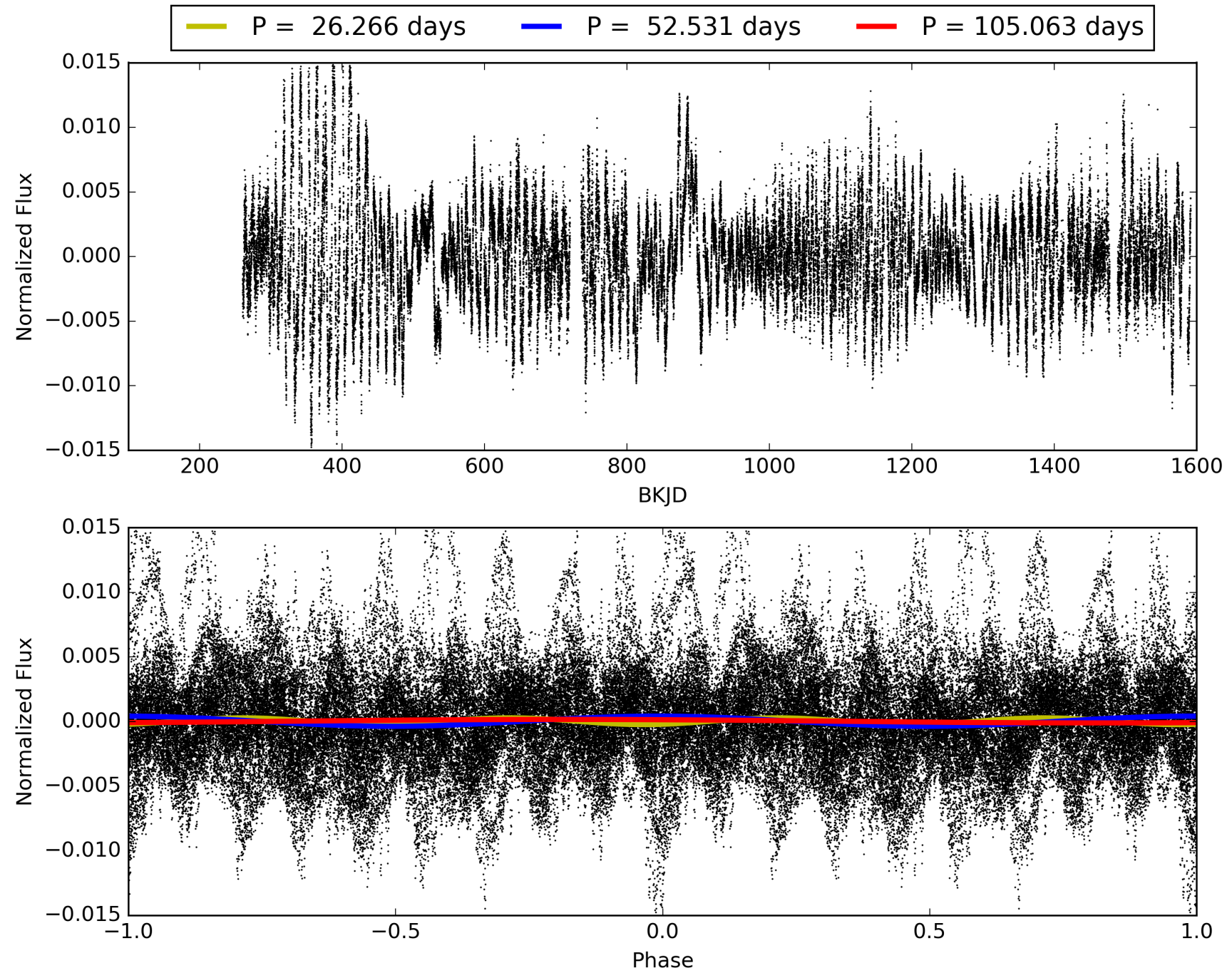
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:39:40 Z

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

TCE 008264287-05, PDC Light Curves

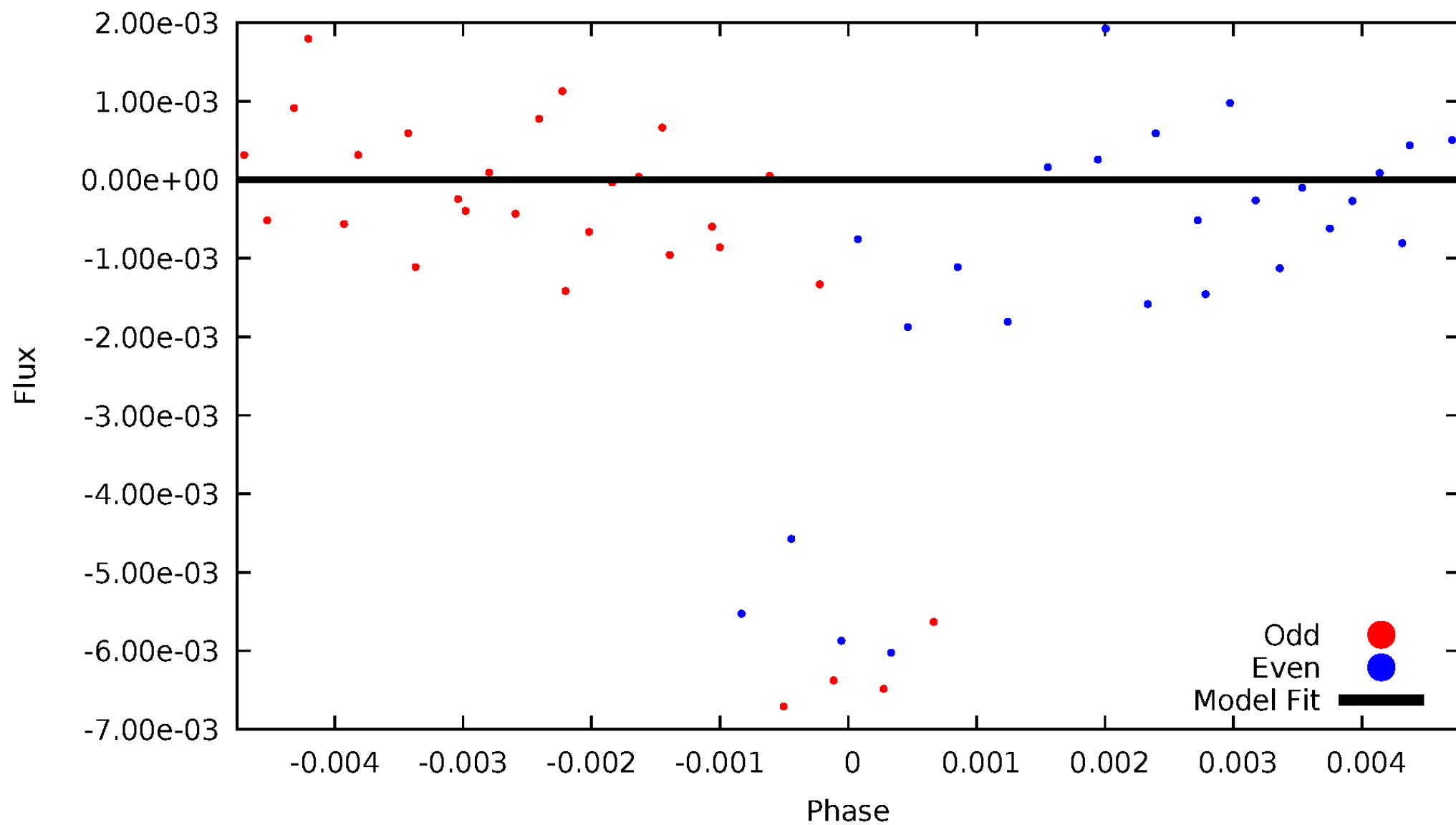


TCE 008264287-05



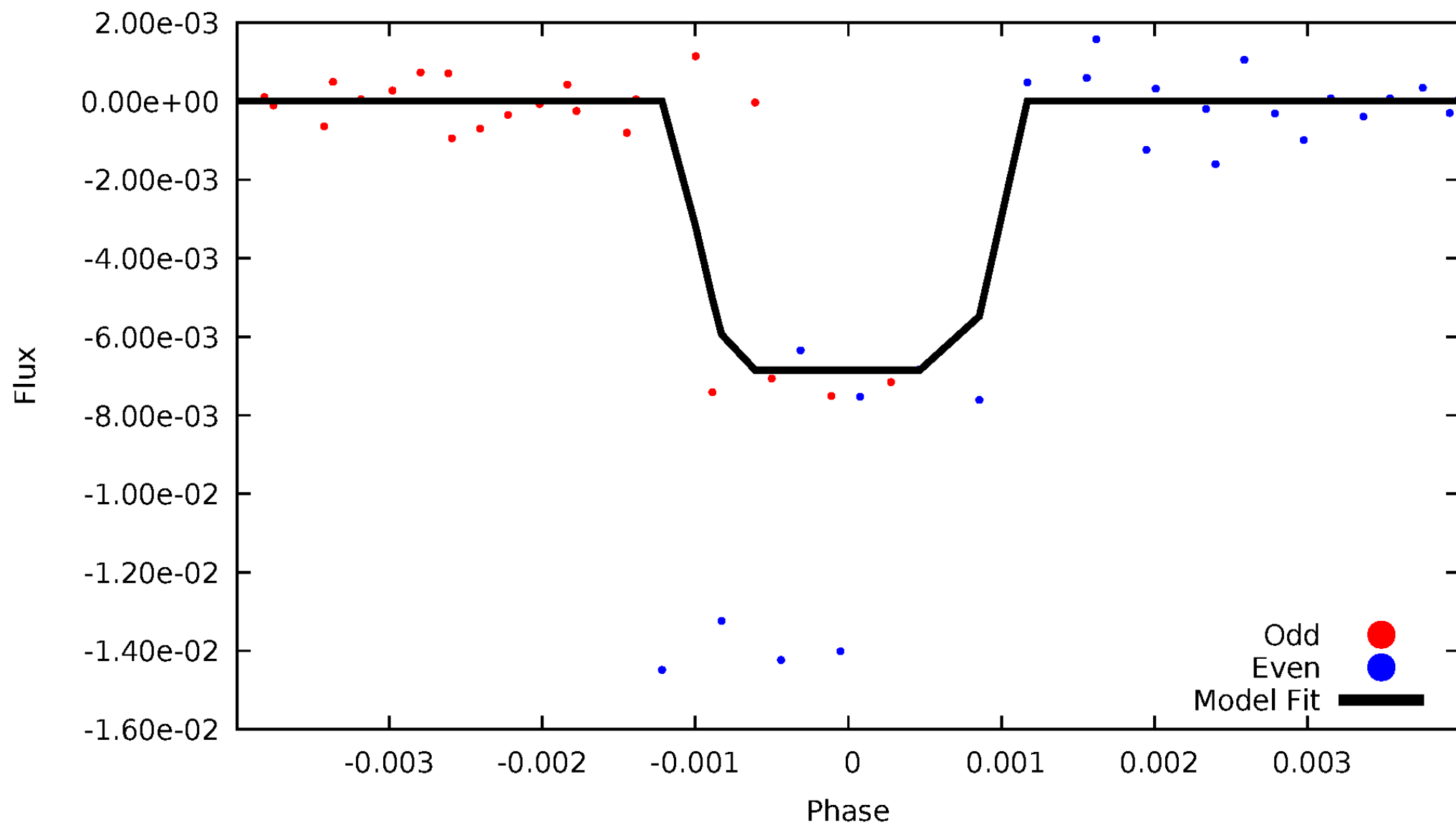
DV Odd/Even

TCE 008264287-05

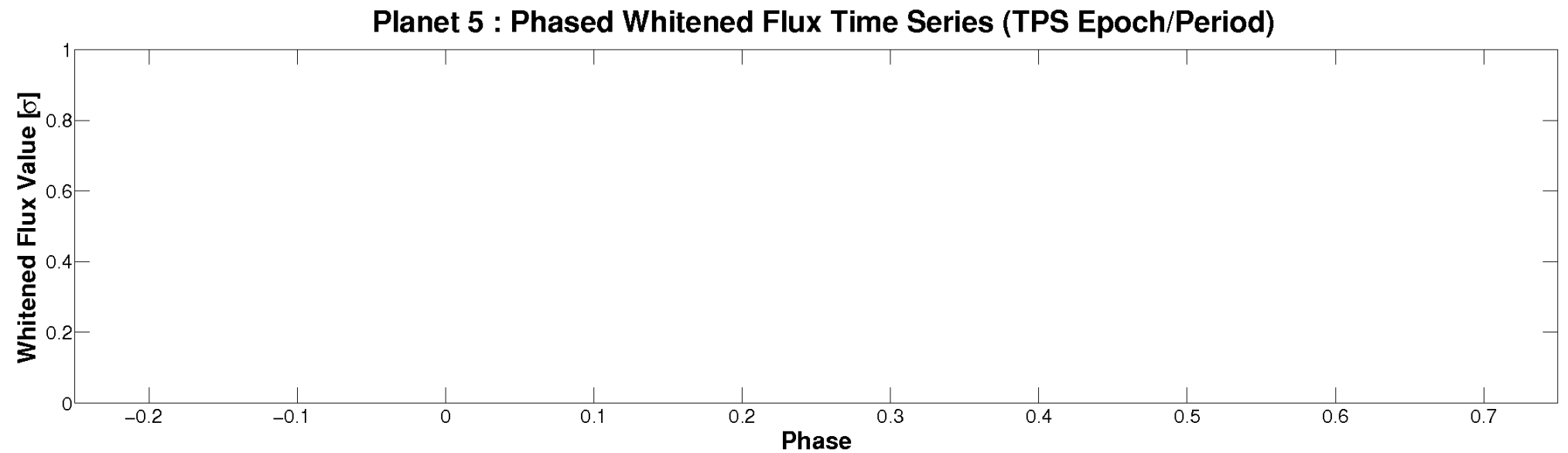
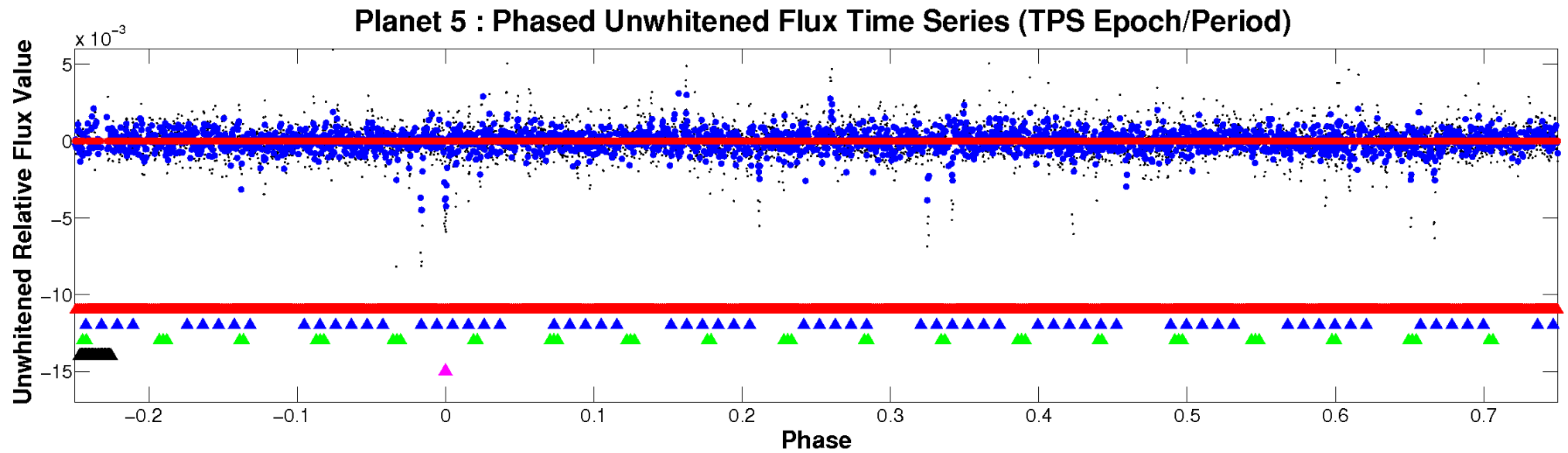


ALT Odd/Even

TCE 008264287-05

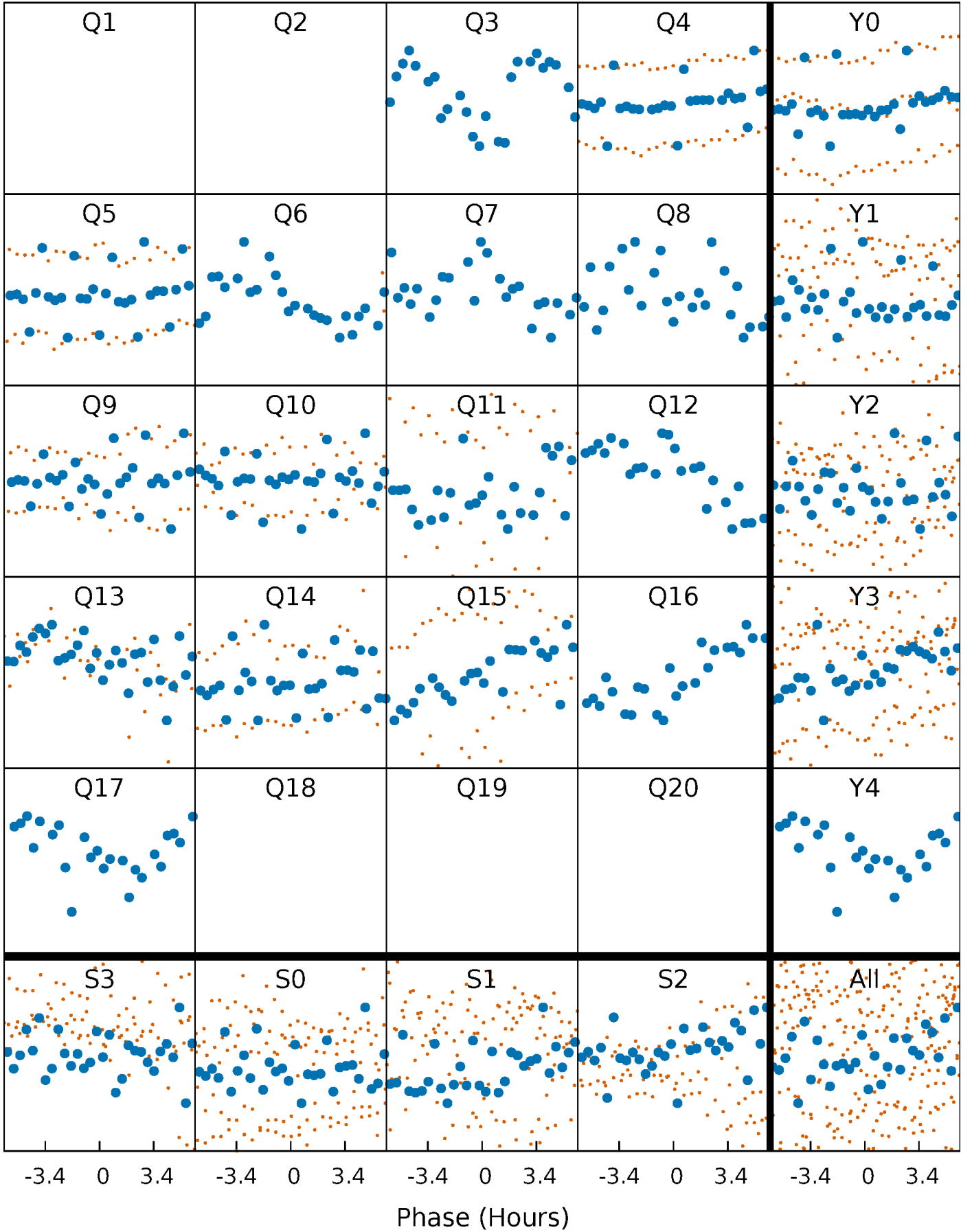


Non-Whitened Vs. Whitened Light Curve



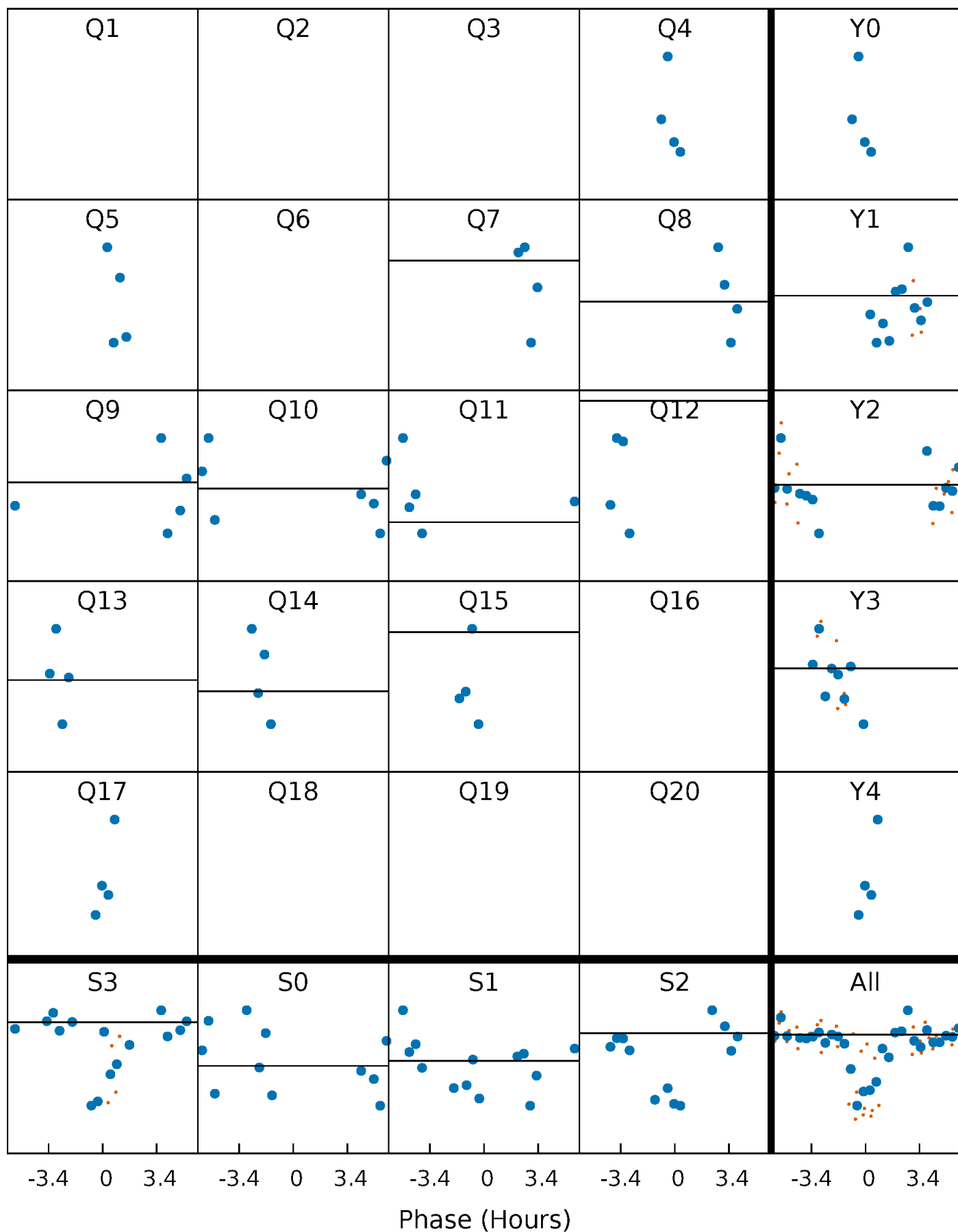
PDC Quarter-Phased Transit Curves

TCE 008264287-05 P= 52.531339 Days $T_0=146.913281$ (BKJD)



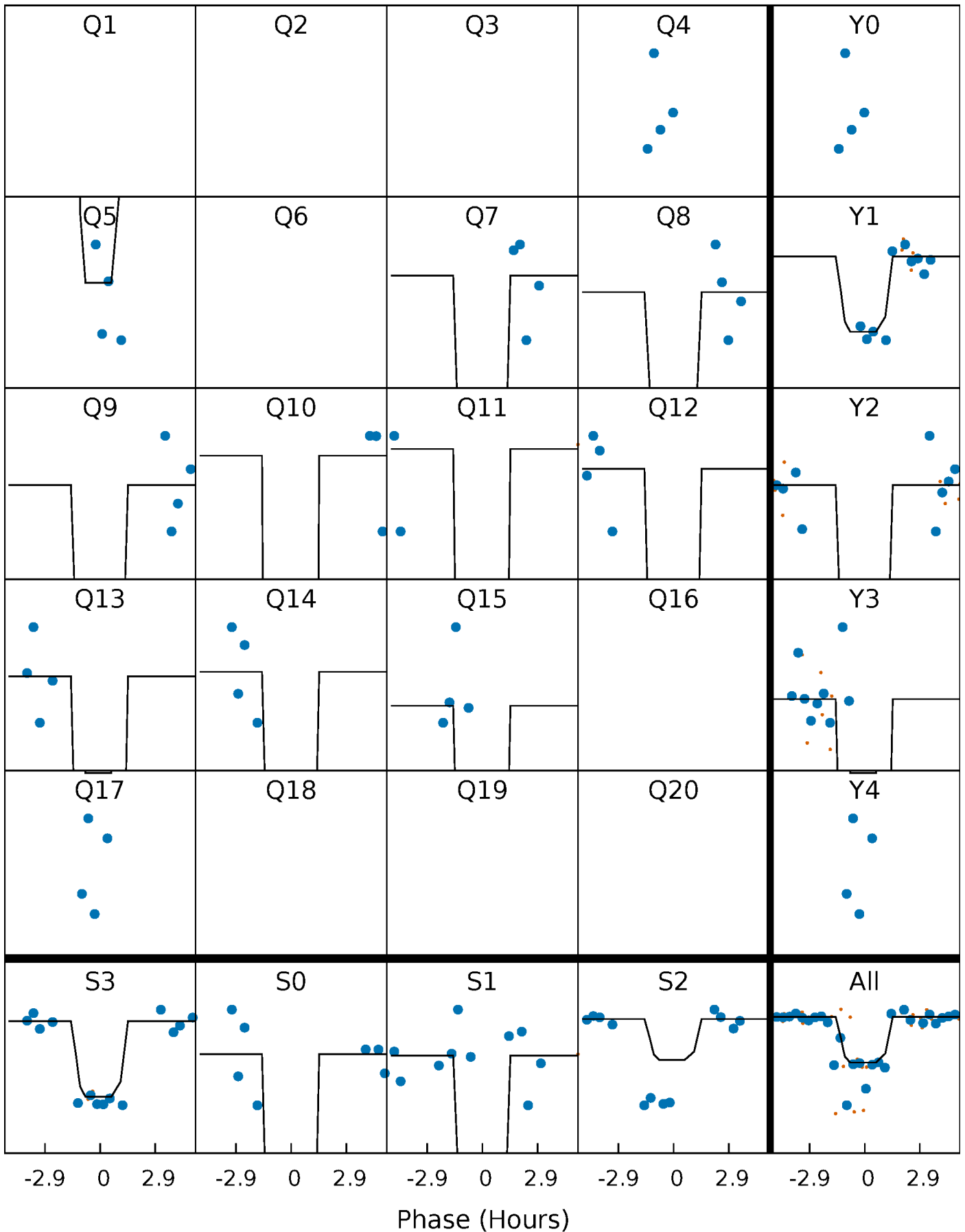
DV Quarter-Phased Transit Curves

TCE 008264287-05 P= 52.531339 Days $T_0=146.913281$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

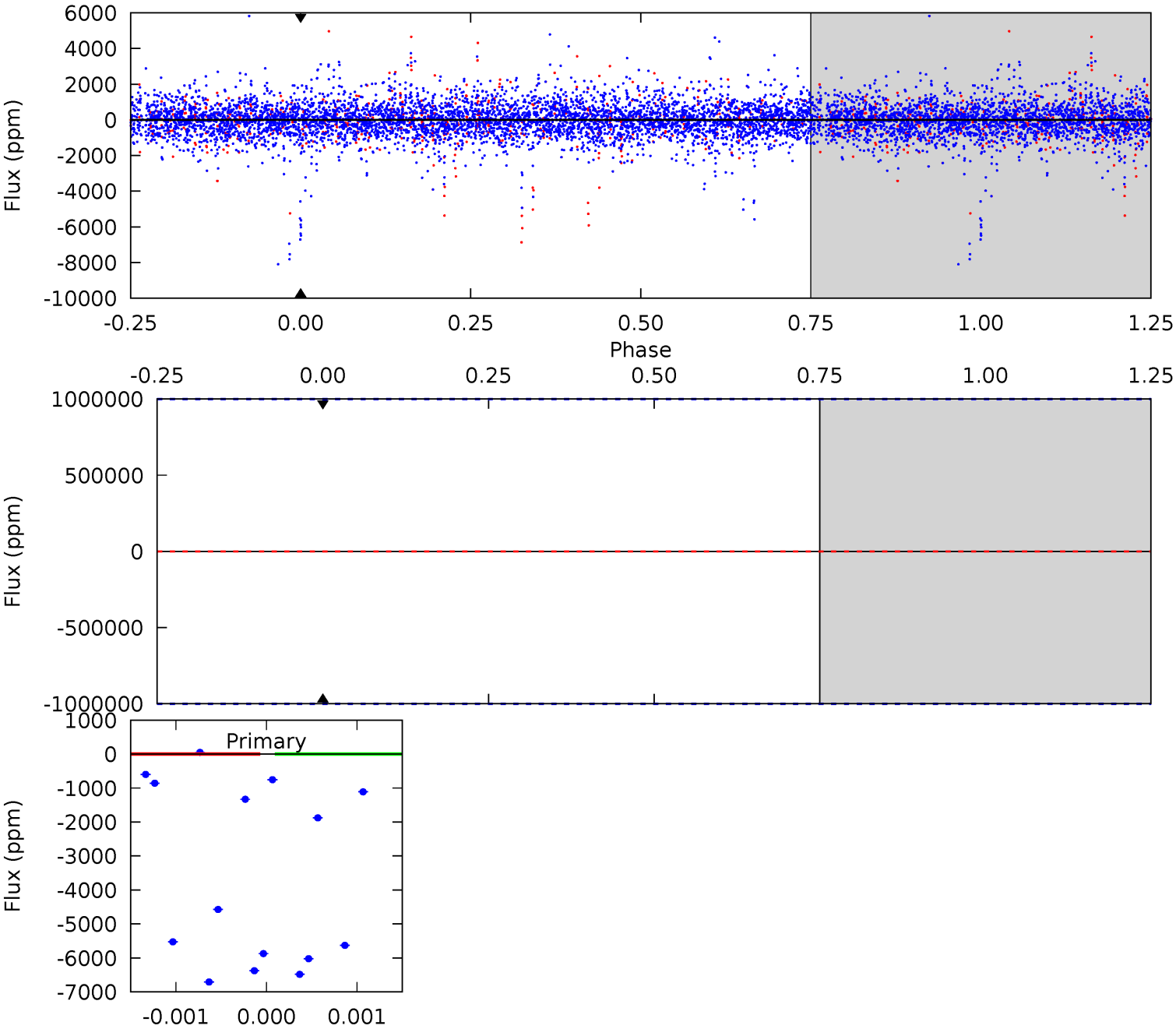
TCE 008264287-05 $P = 52.531339$ Days $T_0 = 146.933530$ (BKJD)



DV Model-Shift Uniqueness Test

008264287-05, P = 52.531339 Days, E = 146.913281 Days

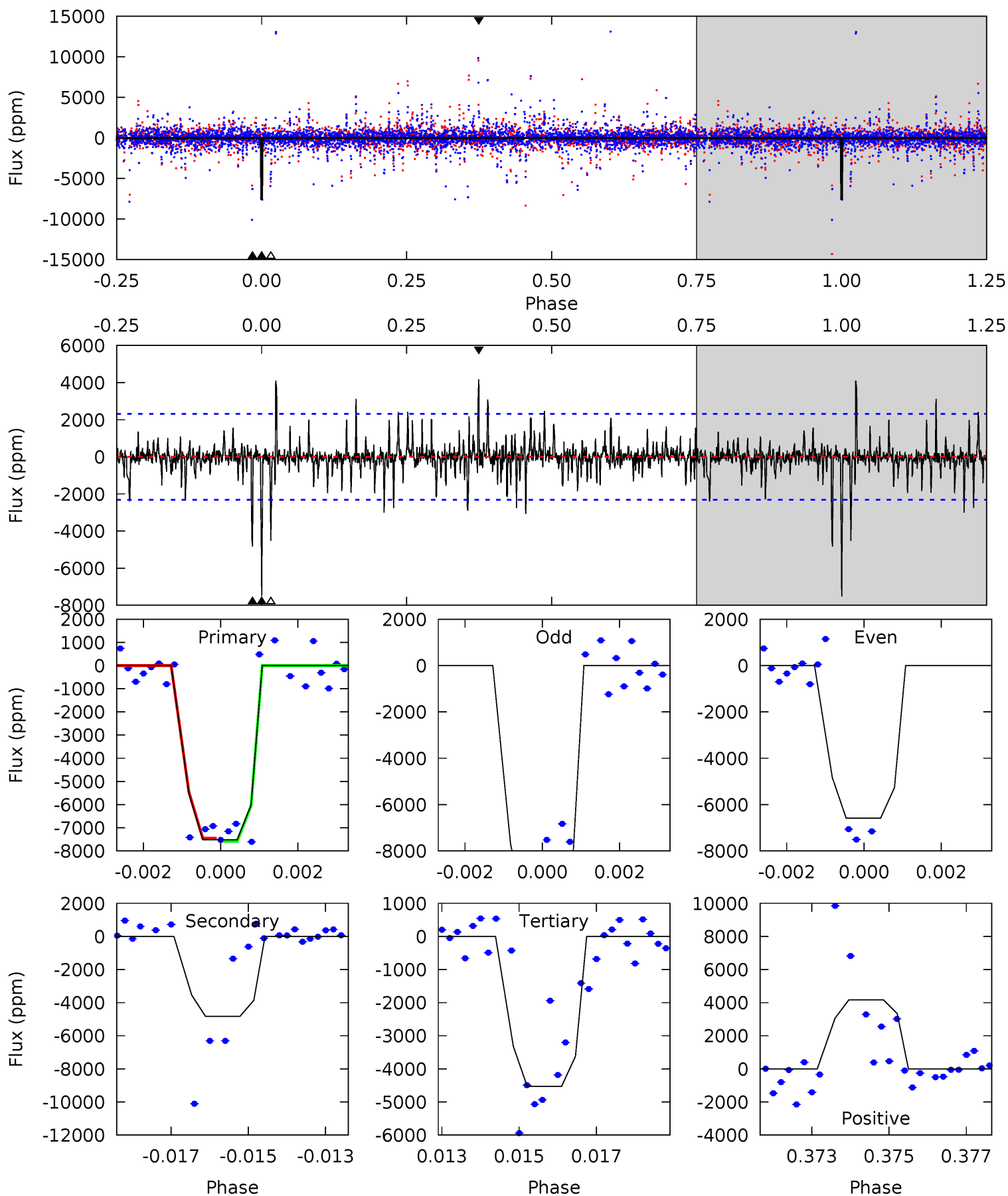
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

008264287-05, P = 52.531339 Days, E = 146.933530 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.3	11.1	10.4	9.59	5.31	3.07	1.48	6.87	7.68	0.69	1.50	3.53	0.97	0.36	0



Stellar Parameters For KIC 008264287

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5638^{+169}_{-186}	$4.555^{+0.044}_{-0.176}$	$-0.100^{+0.300}_{-0.300}$	$0.842^{+0.235}_{-0.073}$	$0.928^{+0.094}_{-0.104}$	$2.188^{+0.394}_{-1.060}$
	+3%/-3%	+1%/-4%	+300%/-300%	+28%/-9%	+10%/-11%	+18%/-48%
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 008264287-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$9.22^{+8.14}_{-6.29}$	626^{+39}_{-28}	-3489^{+18711}_{-9640}	$-431.127^{+85343.639}_{-62434.548}$
Alt.	-4826 ± 435	$10.37^{+9.11}_{-6.35}$	629^{+39}_{-31}	4631^{+2663}_{-911}	1722^{+9879}_{-1229}

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

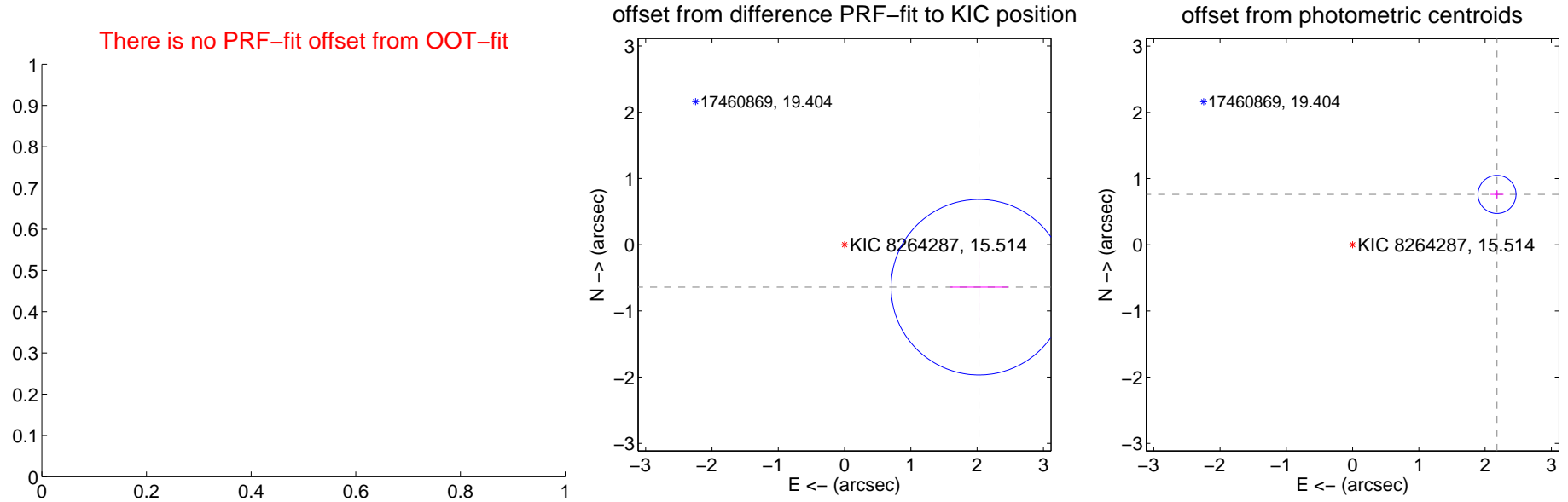
DV Centroid Data

Supplemental centroid analysis for 008264287-05. Kepler magnitude: 15.51. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

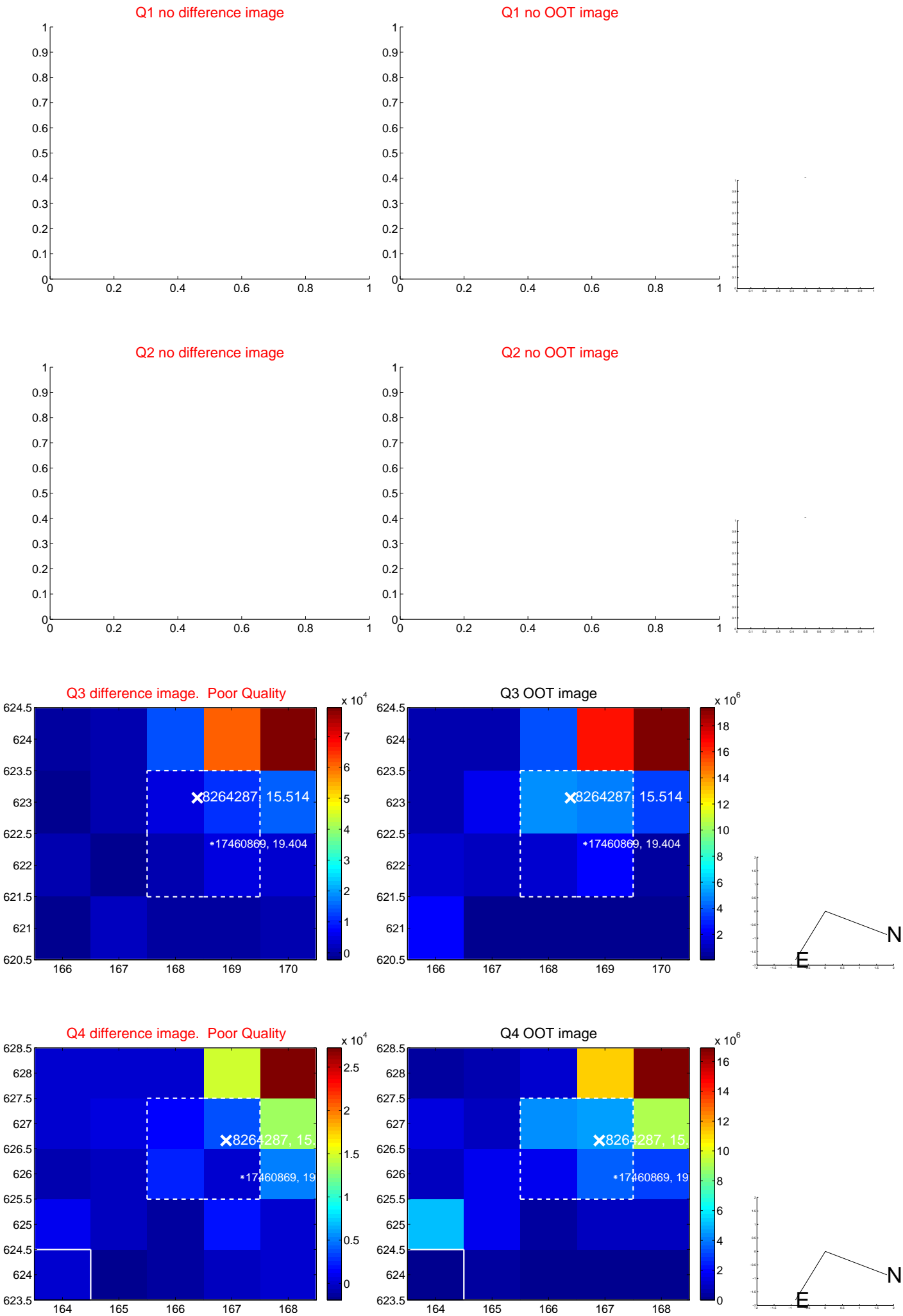
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	2.126 ± 0.442	4.81	-2.027 ± 0.435	-0.642 ± 0.507
photometric centroid source offset	2.31 ± 0.10	24.10	-2.18 ± 0.10	0.76 ± 0.07

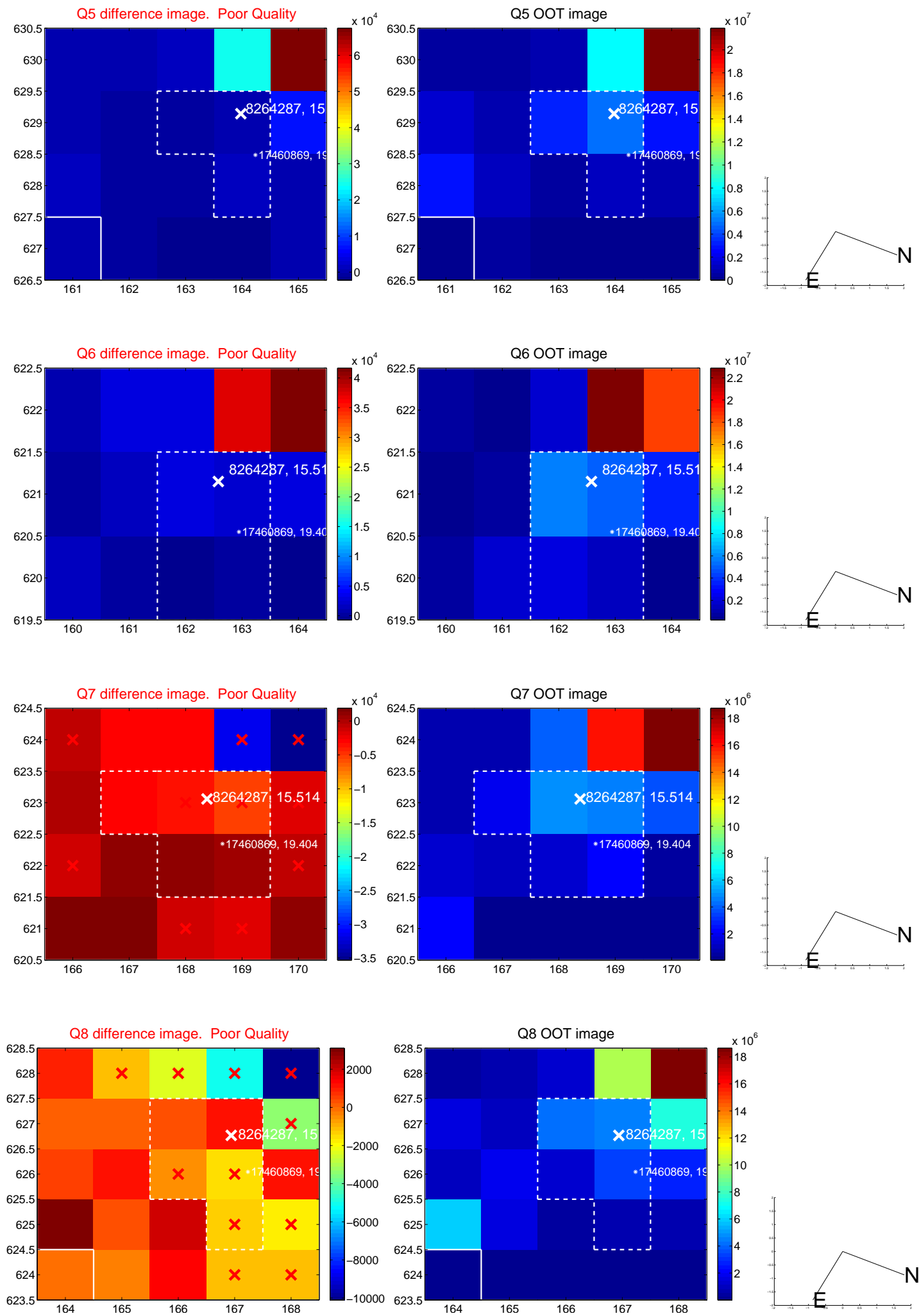


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

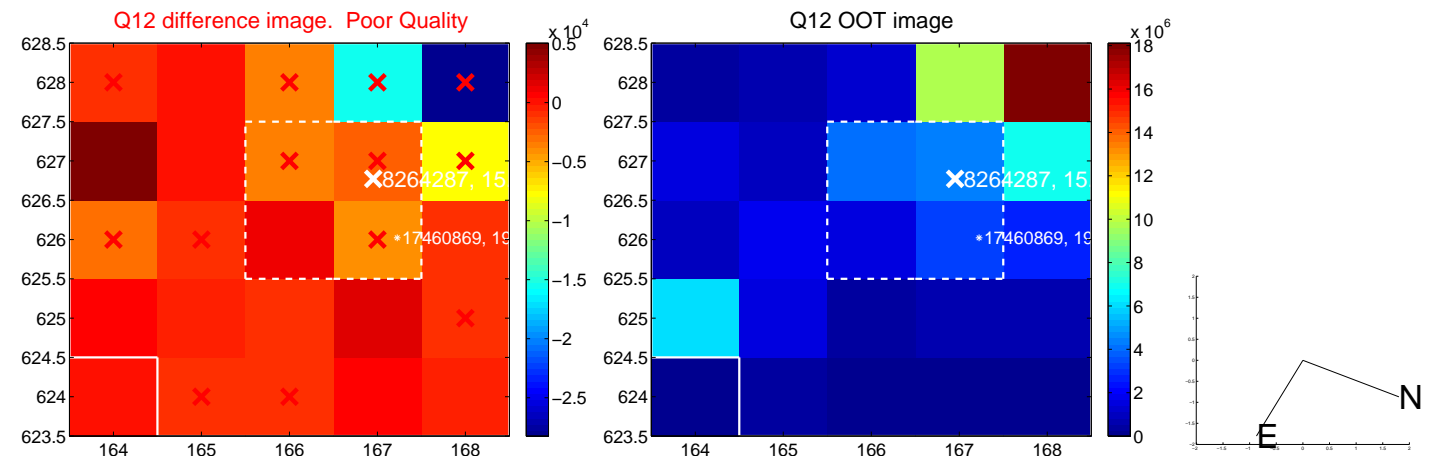
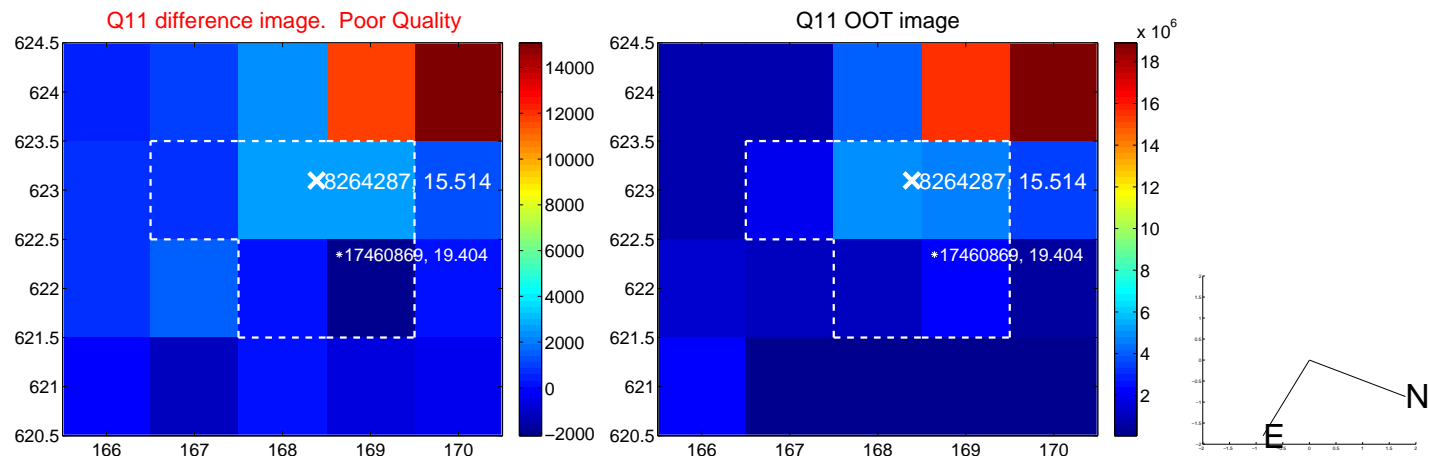
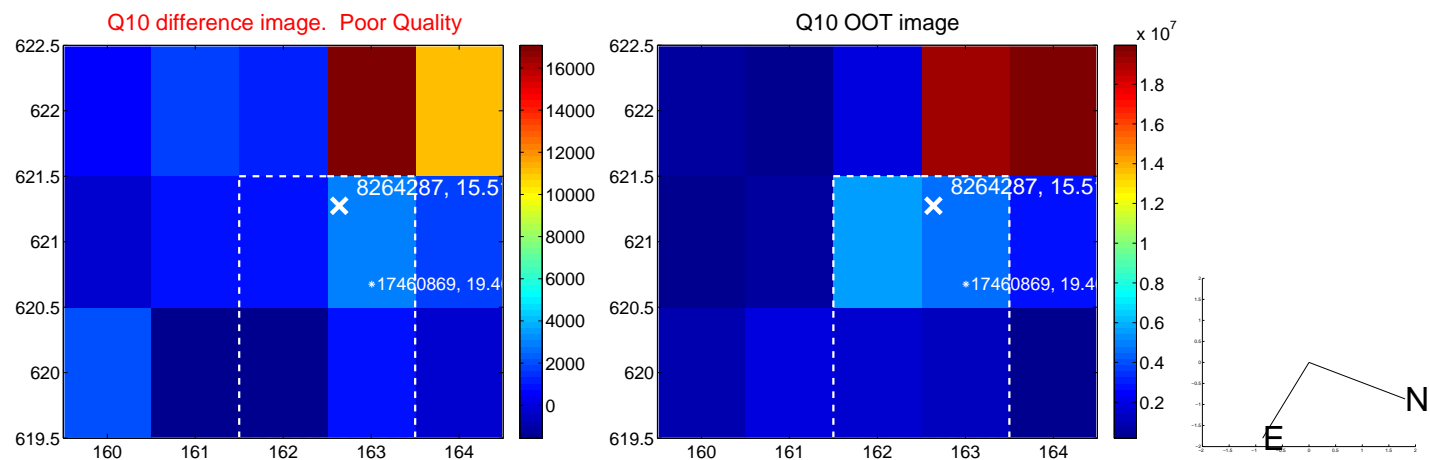
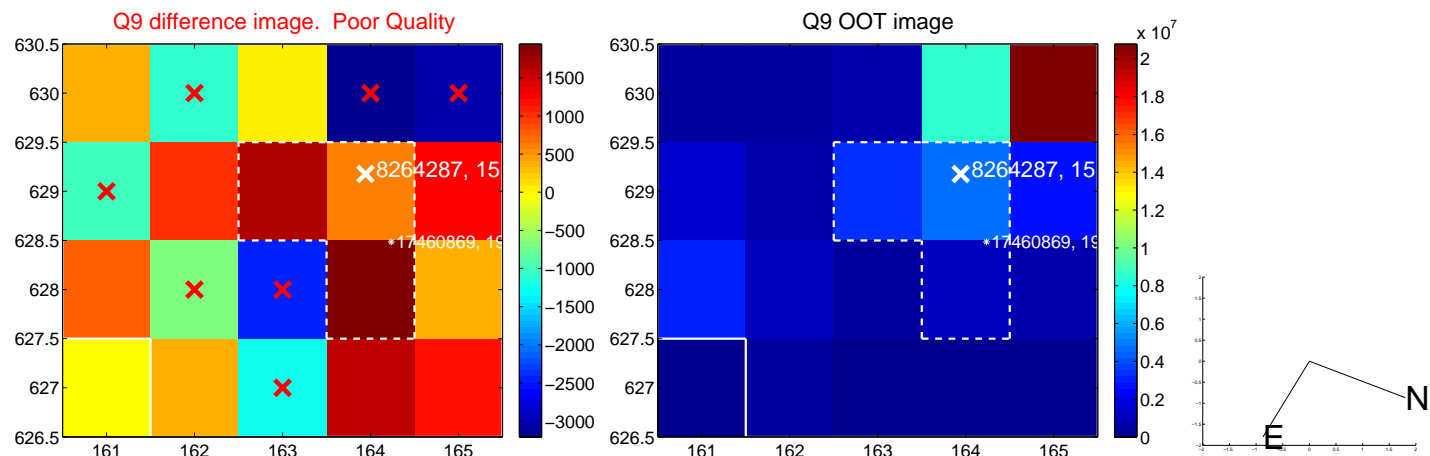
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



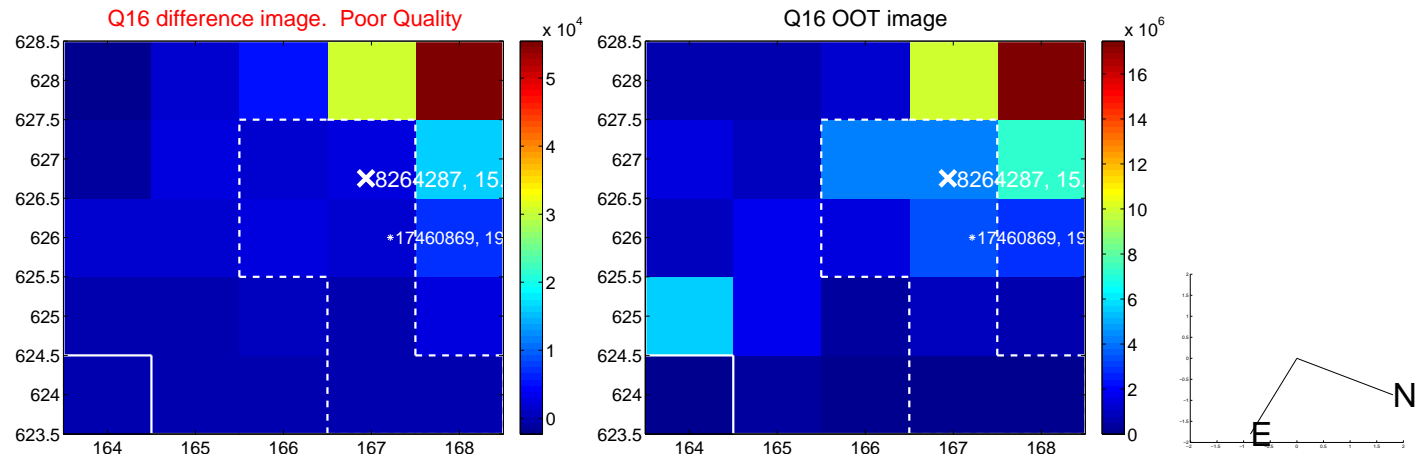
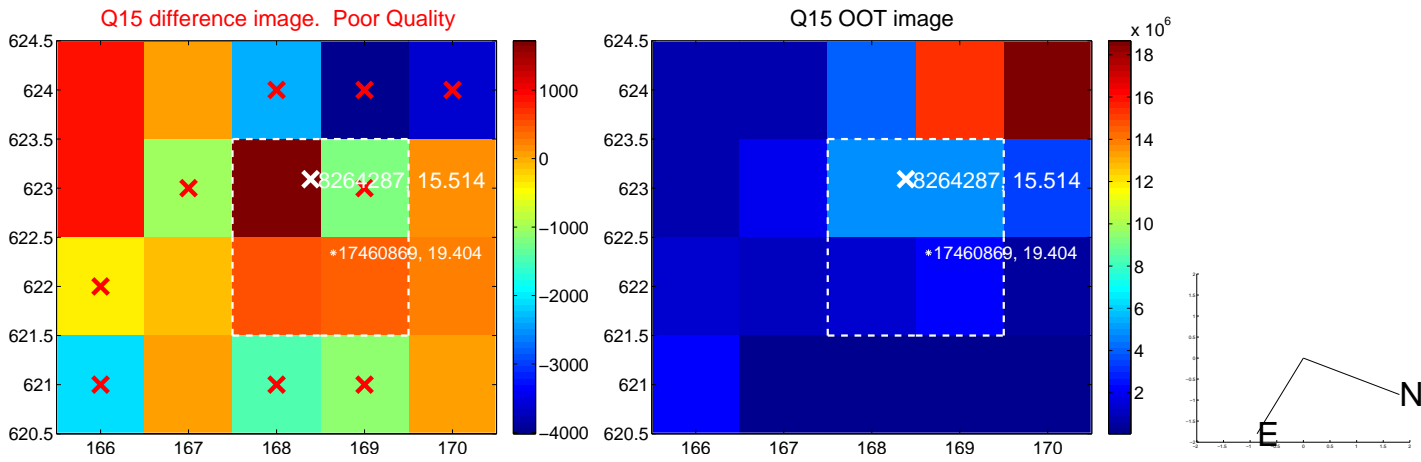
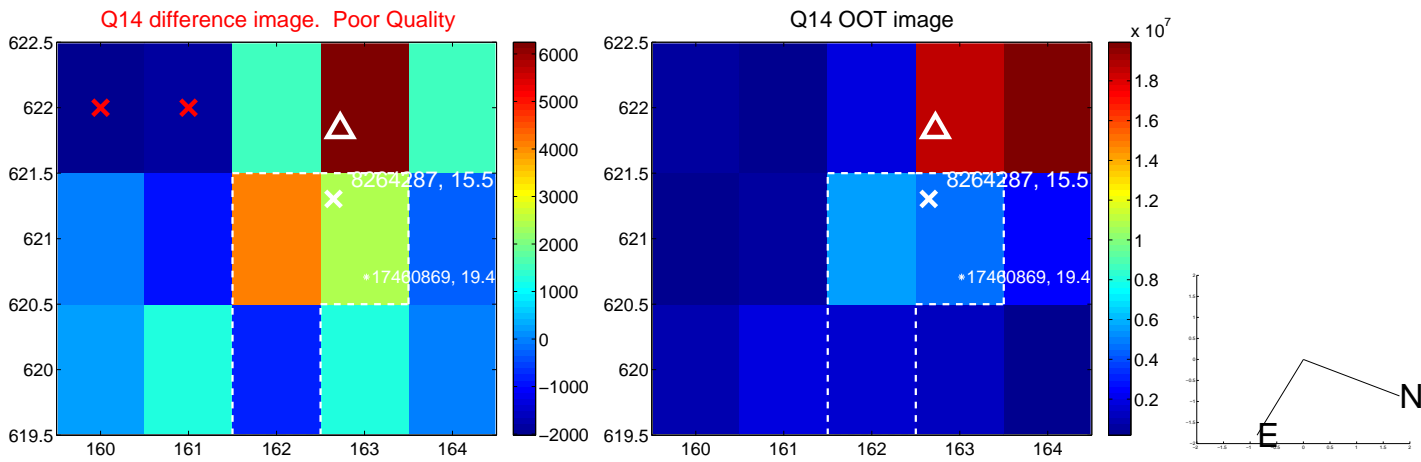
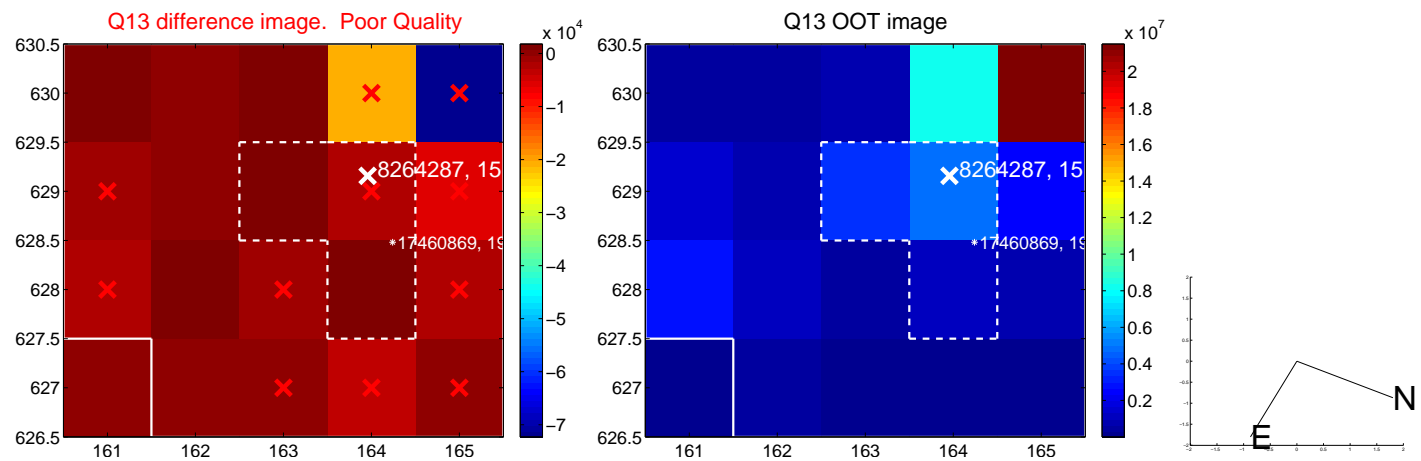
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



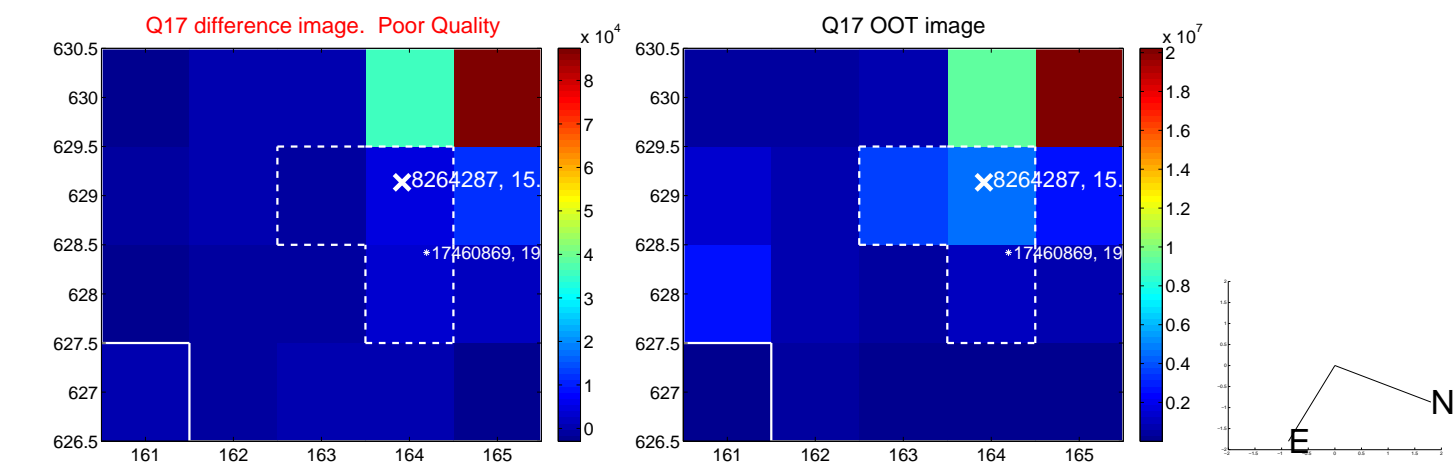
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



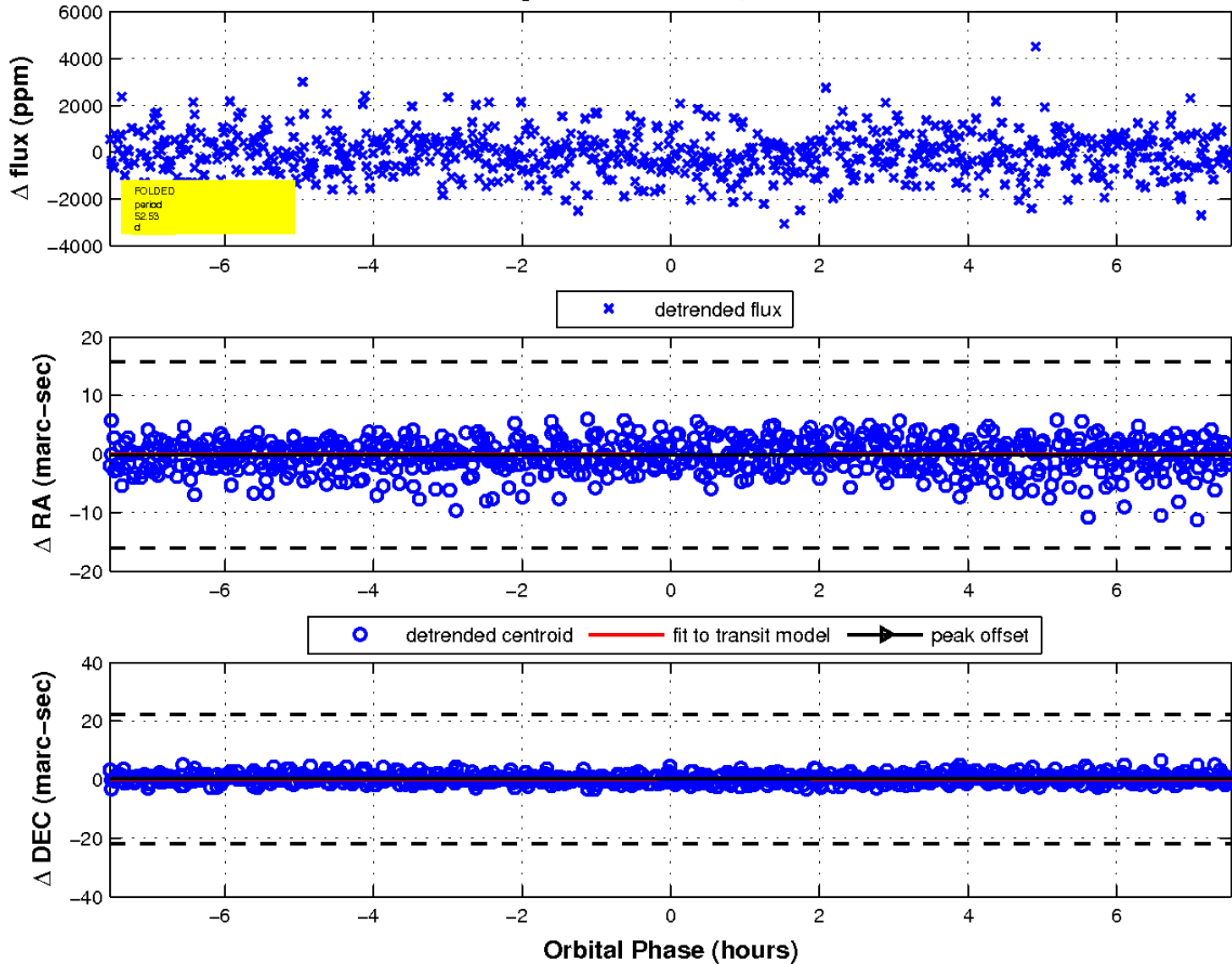
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 5 of 5



UKIRT Image

