

KIC 005726667

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})
005726667-01	OBS	No	1.595109	132.466101	56.4	12.024	8.7	7.8	3.32	7968	2.67	34309.71
005726667-02	OBS	No	20.335517	142.813207	801.5	2.364	13.2	12.0	3.32	7968	9.70	1152.03
005726667-03	OBS	No	38.165021	133.558242	286.0	9.875	12.2	4.6	3.32	7968	5.94	497.64
005726667-04	OBS	No	28.184924	137.517493	1029.6	1.939	9.9	11.8	3.32	7968	14.51	745.50
005726667-05	OBS	No	22.940918	144.325403	783.9	1.444	12.2	11.4	3.32	7968	9.41	980.97

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005726667-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
005726667-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
005726667-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005726667-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005726667-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—HALO_GHOST

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

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

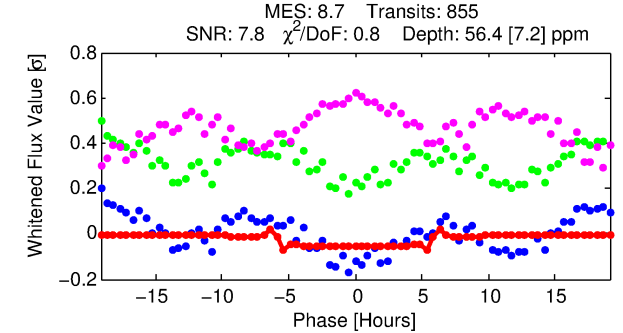
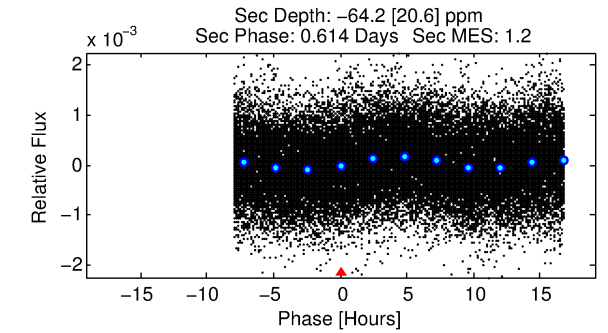
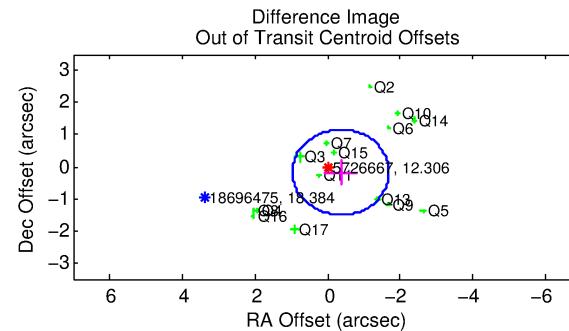
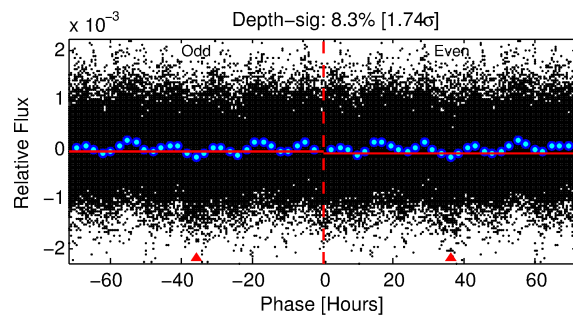
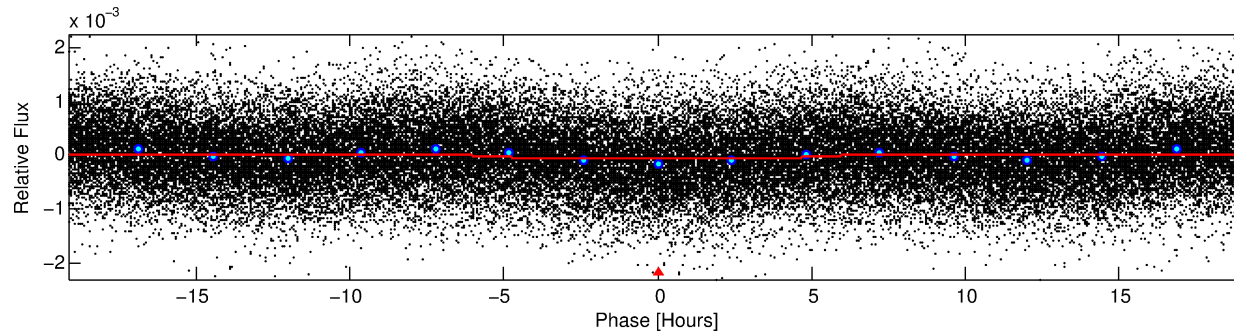
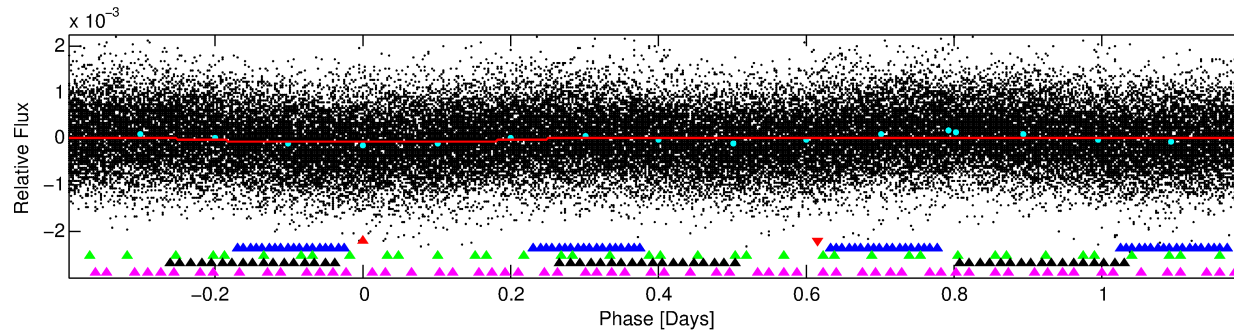
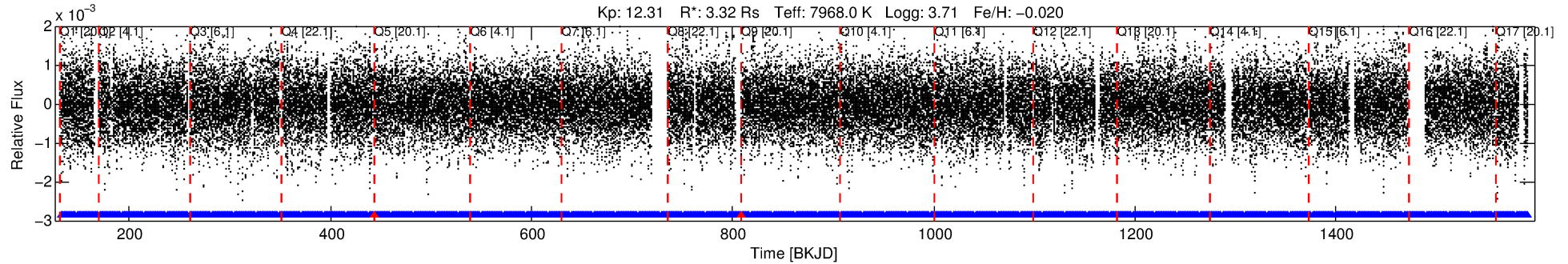
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005726667-01

No Significant Match Found

DV One-Page Summary

KIC: 5726667 Candidate: 1 of 5 Period: 1.595 d



DV Fit Results:

Period = 1.59511 [0.00003] d
Epoch = 132.4661 [0.0044] BKJD
Rp/R* = 0.0074 [0.0023]
a/R* = 1.12 [0.40]
b = 0.70 [1.34]
Seff = 34309.71 [16098.95]
Teq = 3470 [407] K
Rp = 2.67 [1.21] Re
a = 0.0341 [0.0102] AU
Ag = N/A
Teffp = N/A

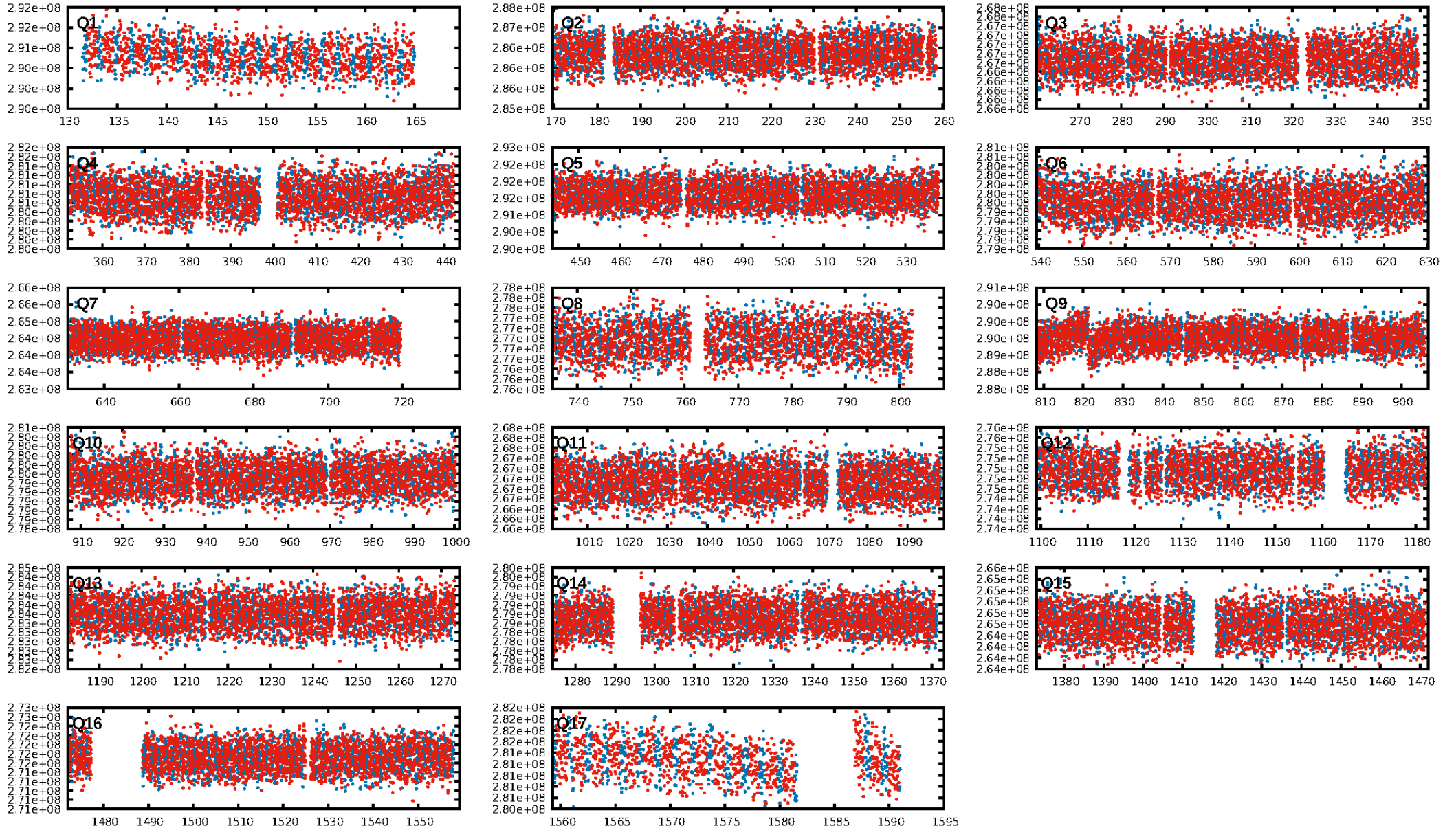
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [36.70 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.82e-62
RollingBand-fgt: 1.00 [815/817]
GhostDiagnostic-chr: 1.048
Centroid-sig: 49.6%
Centroid-so: 0.280 arcsec [1.41 σ]
OotOffset-rm: 0.401 arcsec [0.91 σ]
KicOffset-rm: 0.396 arcsec [0.89 σ]
OotOffset-st: 4/4/3/4 [15]
KicOffset-st: 4/4/3/4 [15]
DiffImageQuality-fgm: 0.93 [14/15]
DiffImageOverlap-fno: 1.00 [17/17]

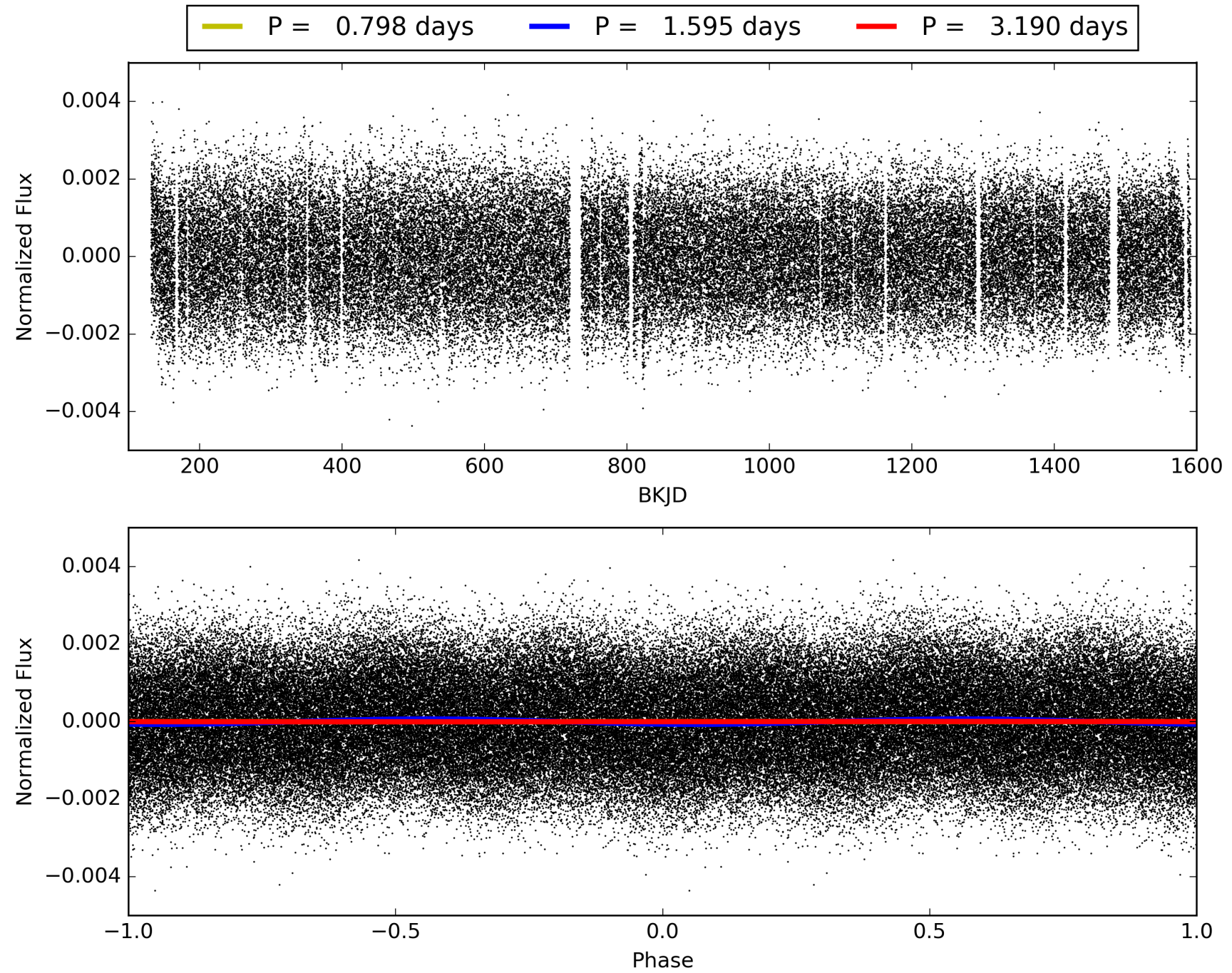
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 07:01:11 Z

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

TCE 005726667-01, PDC Light Curves

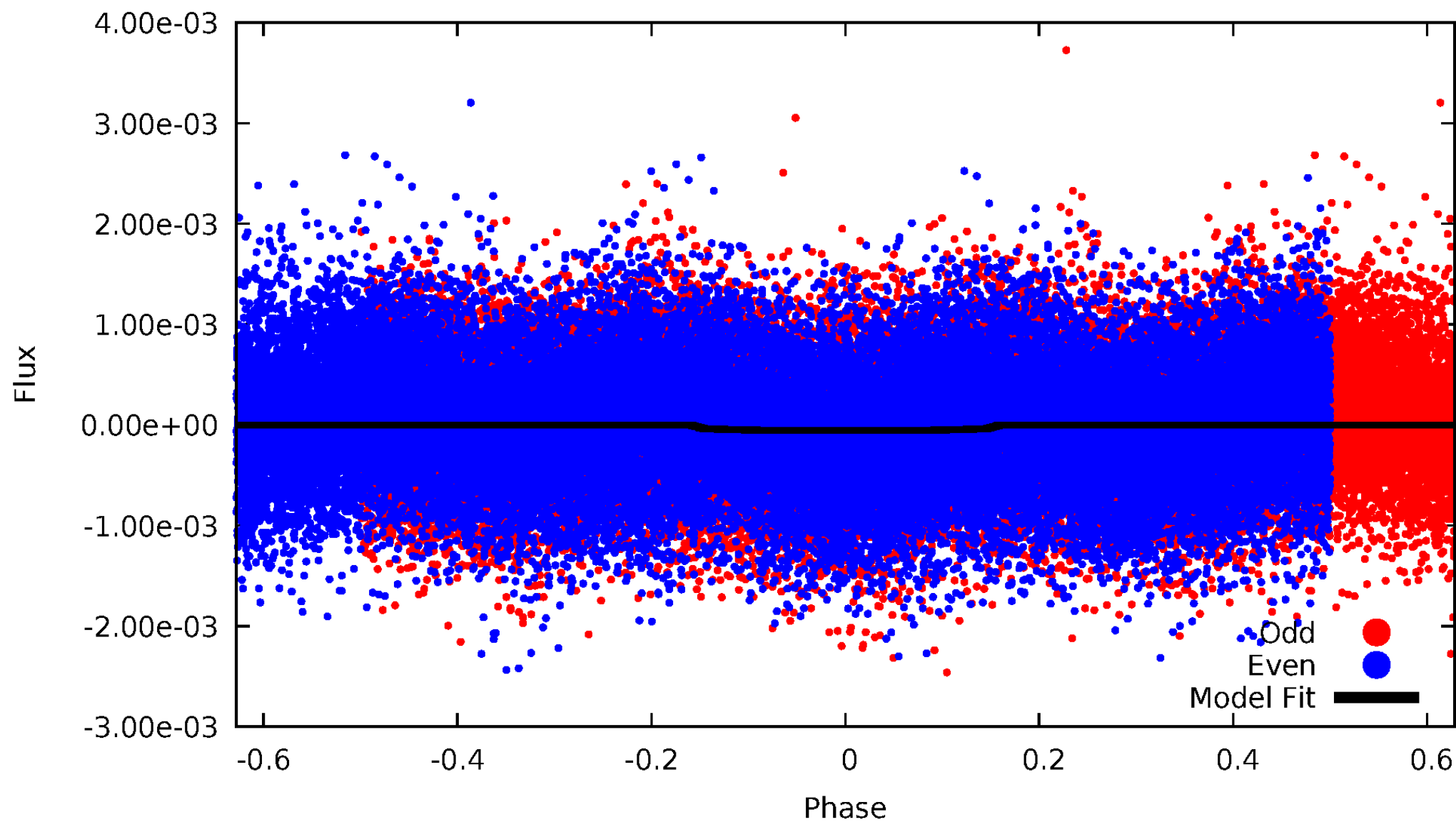


TCE 005726667-01



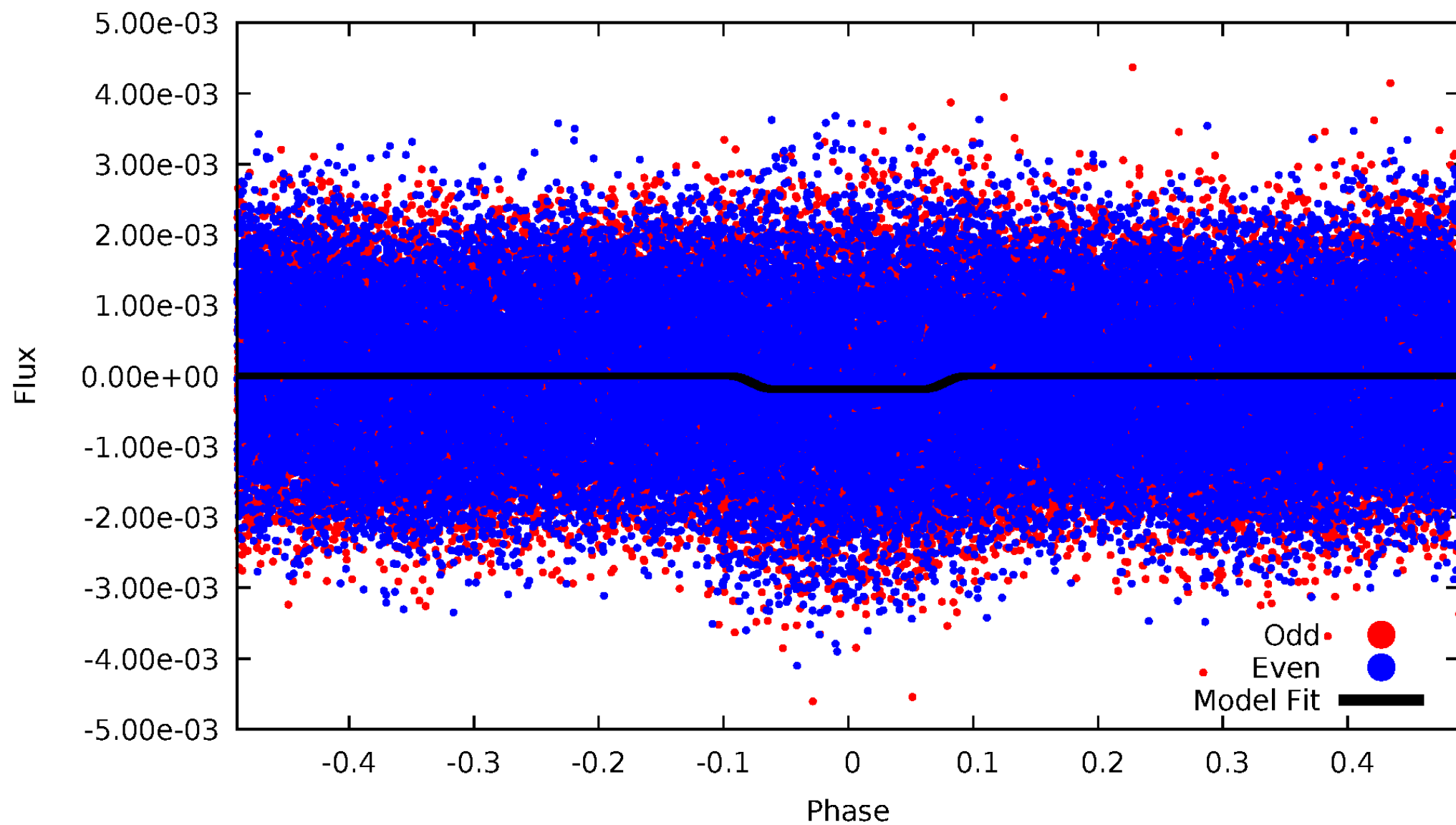
DV Odd/Even

TCE 005726667-01

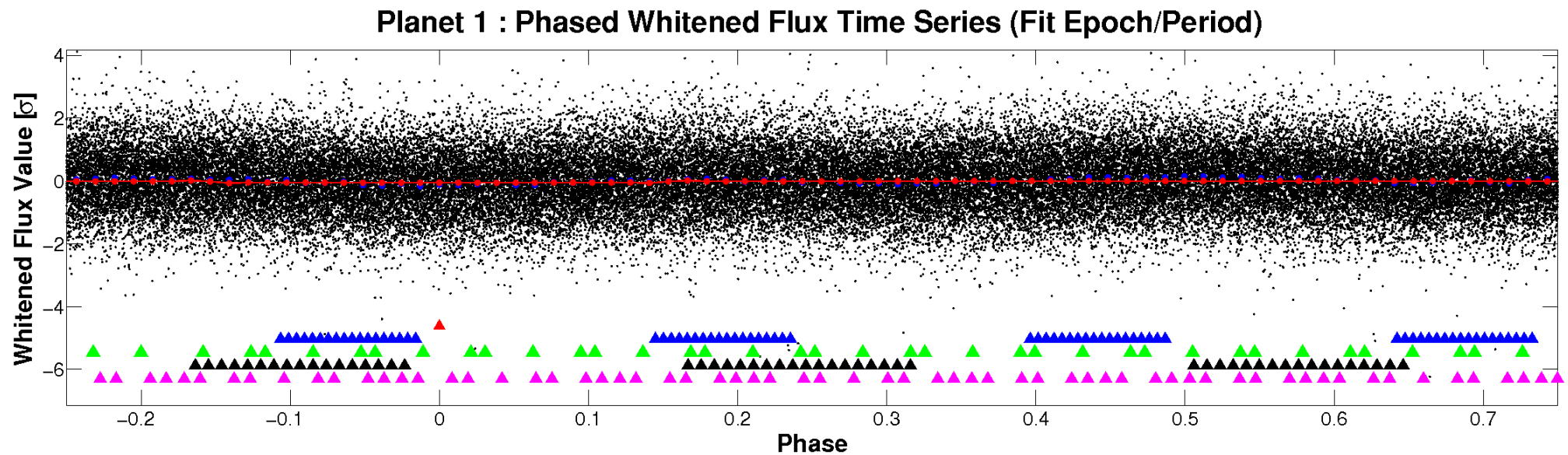
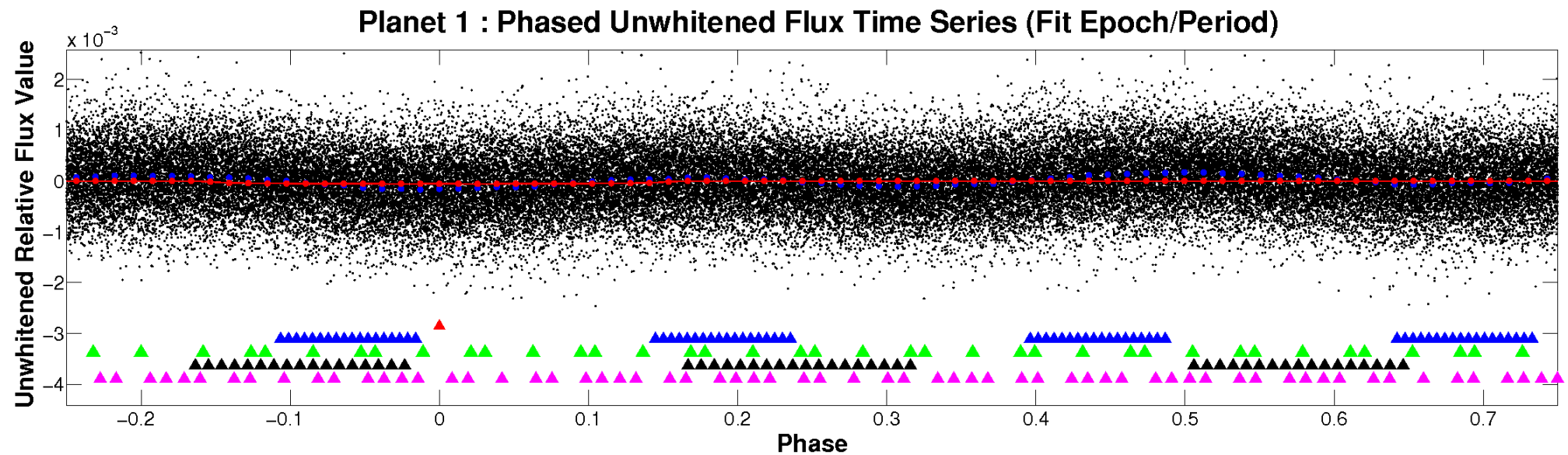


ALT Odd/Even

TCE 005726667-01

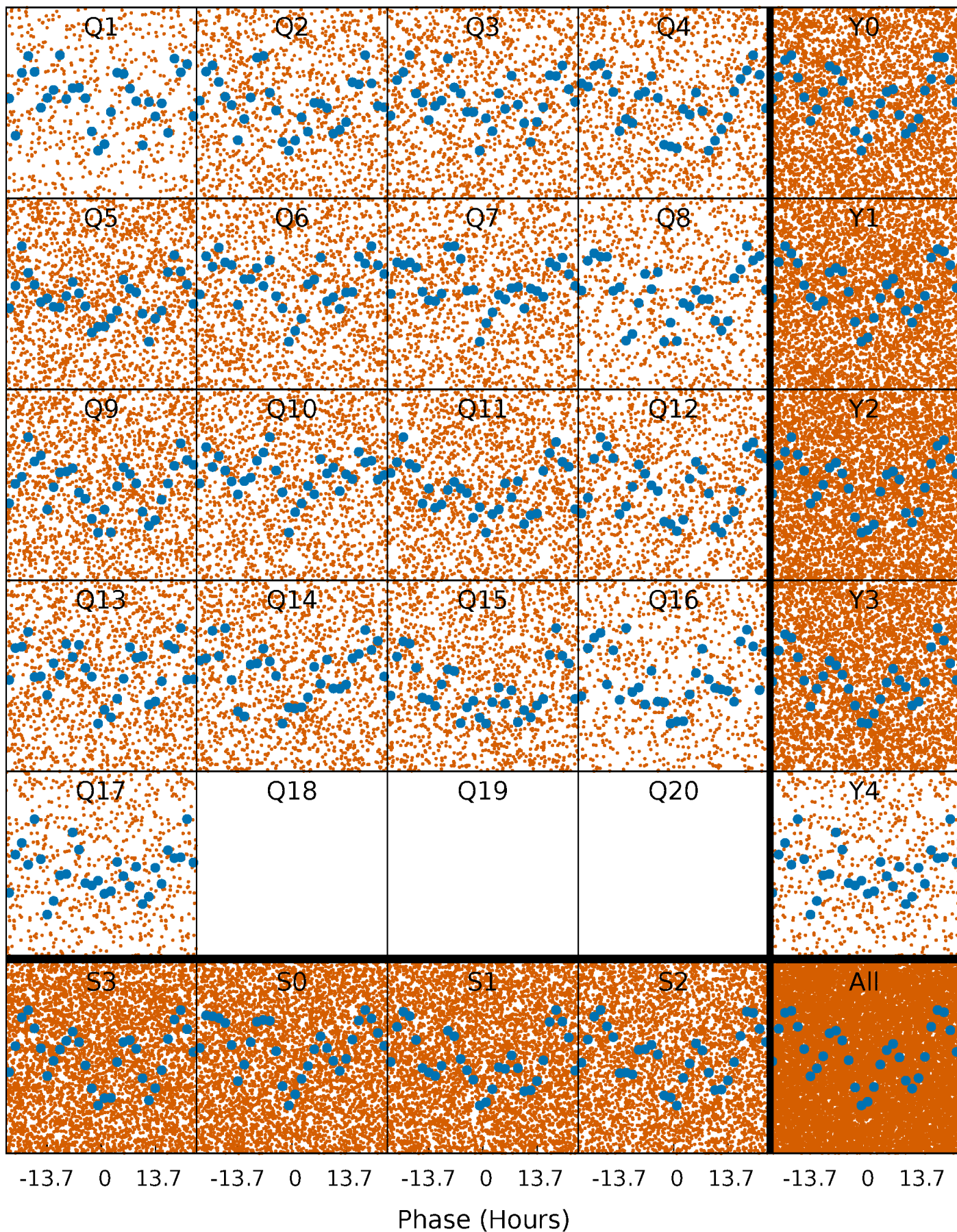


Non-Whitened Vs. Whitened Light Curve



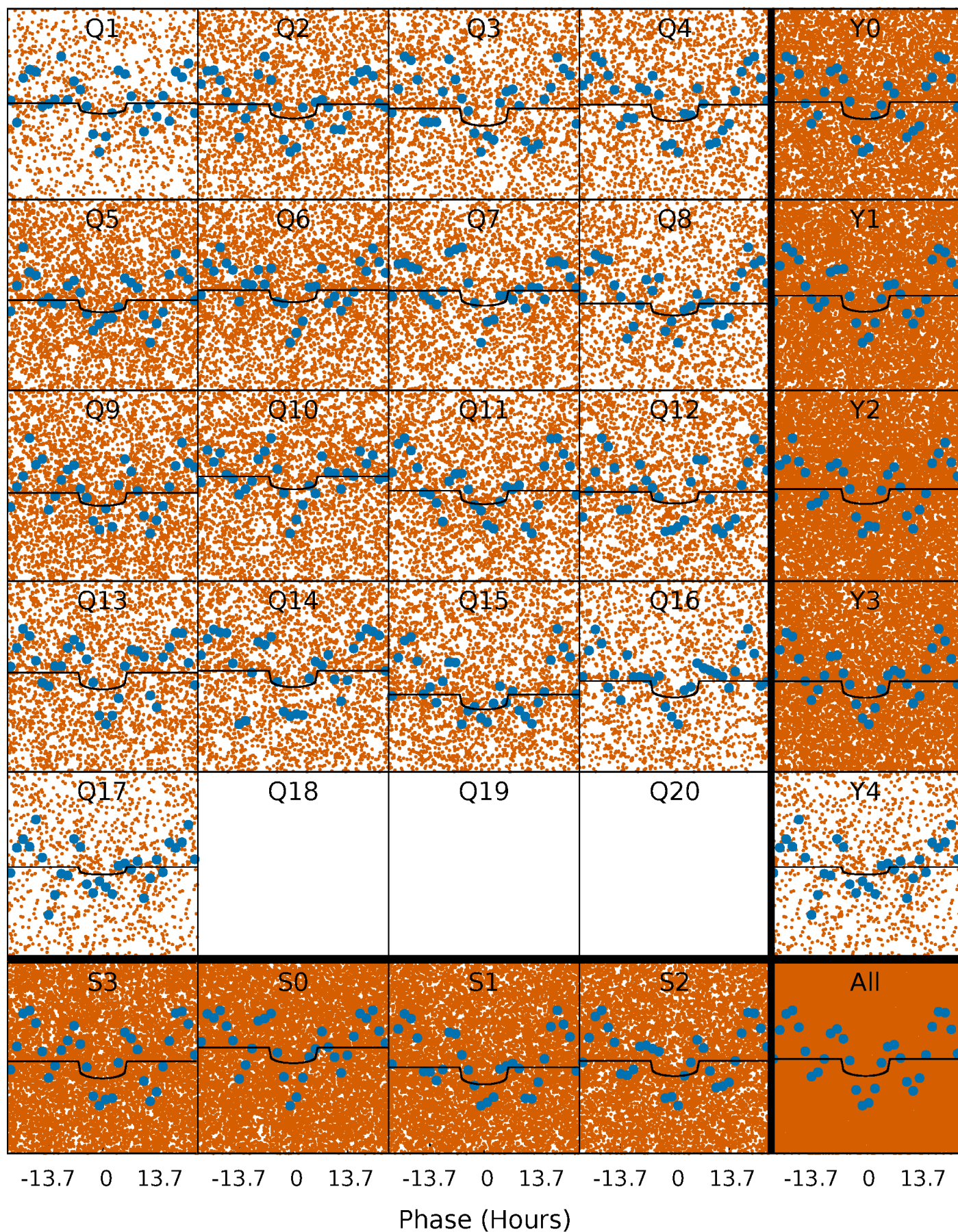
PDC Quarter-Phased Transit Curves

TCE 005726667-01 P= 1.595109 Days $T_0=132.466101$ (BKJD)



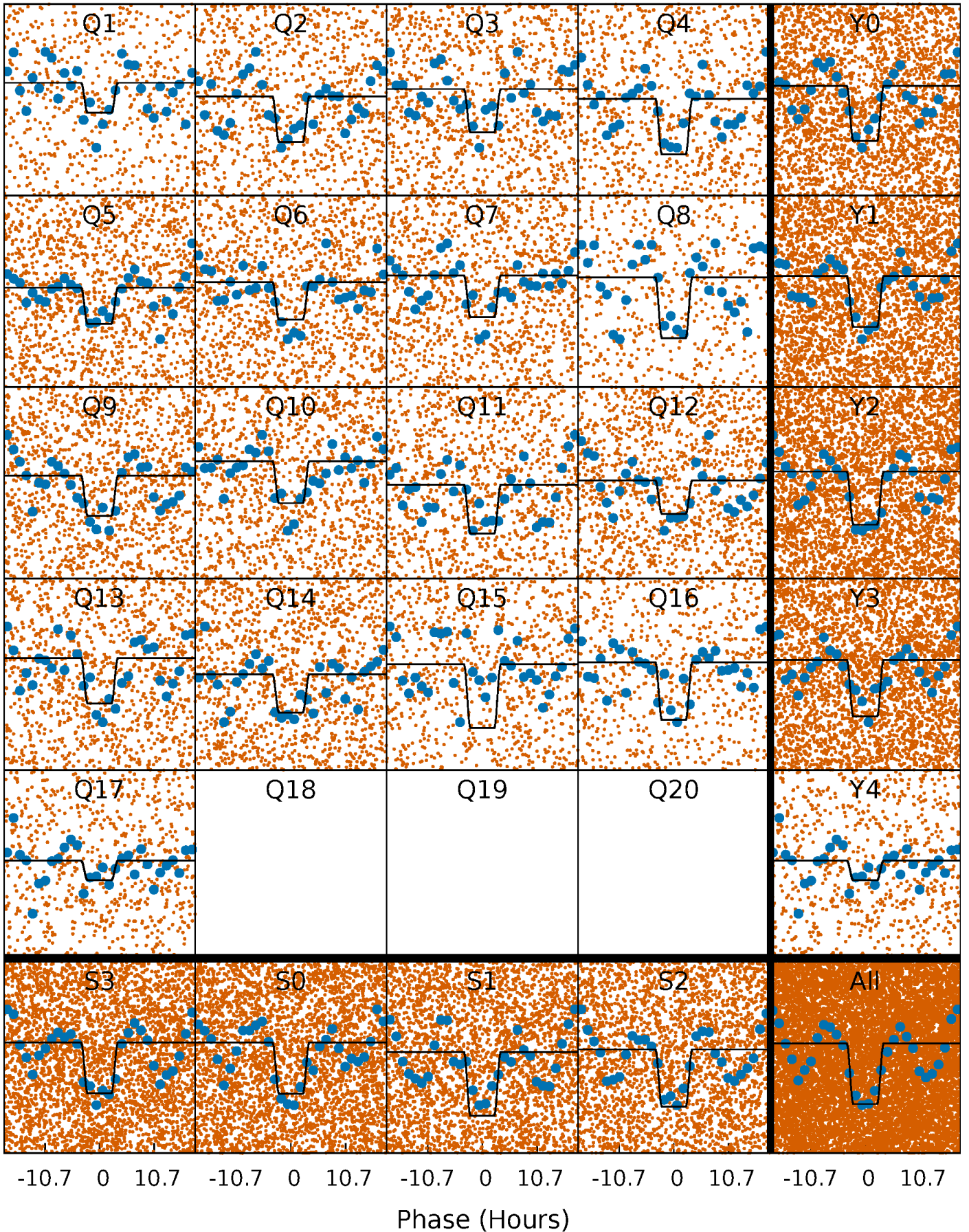
DV Quarter-Phased Transit Curves

TCE 005726667-01 P= 1.595109 Days $T_0=132.466101$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

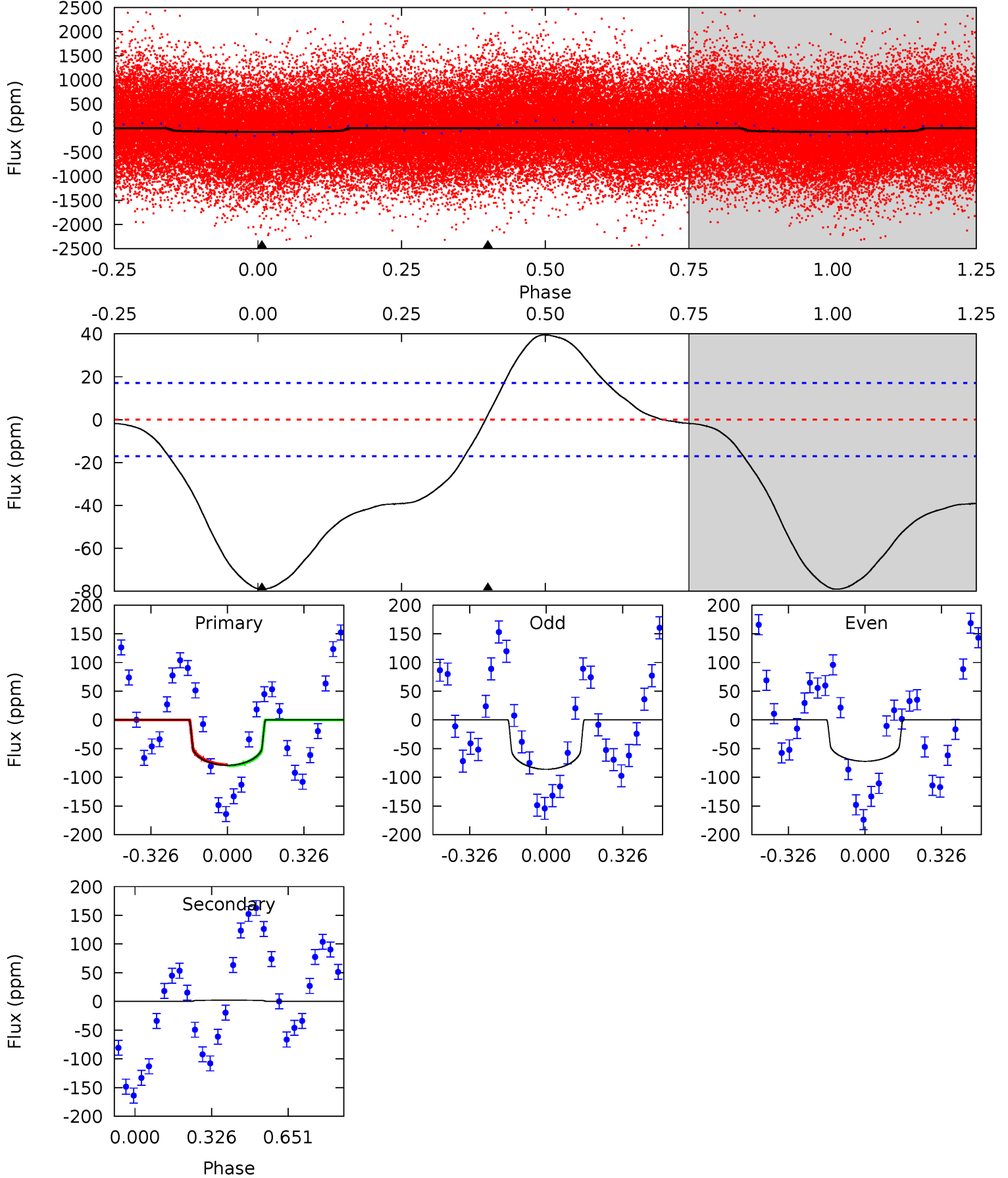
TCE 005726667-01 P= 1.595095 Days $T_0=132.466220$ (BKJD)



DV Model-Shift Uniqueness Test

005726667-01, P = 1.595109 Days, E = 130.870992 Days

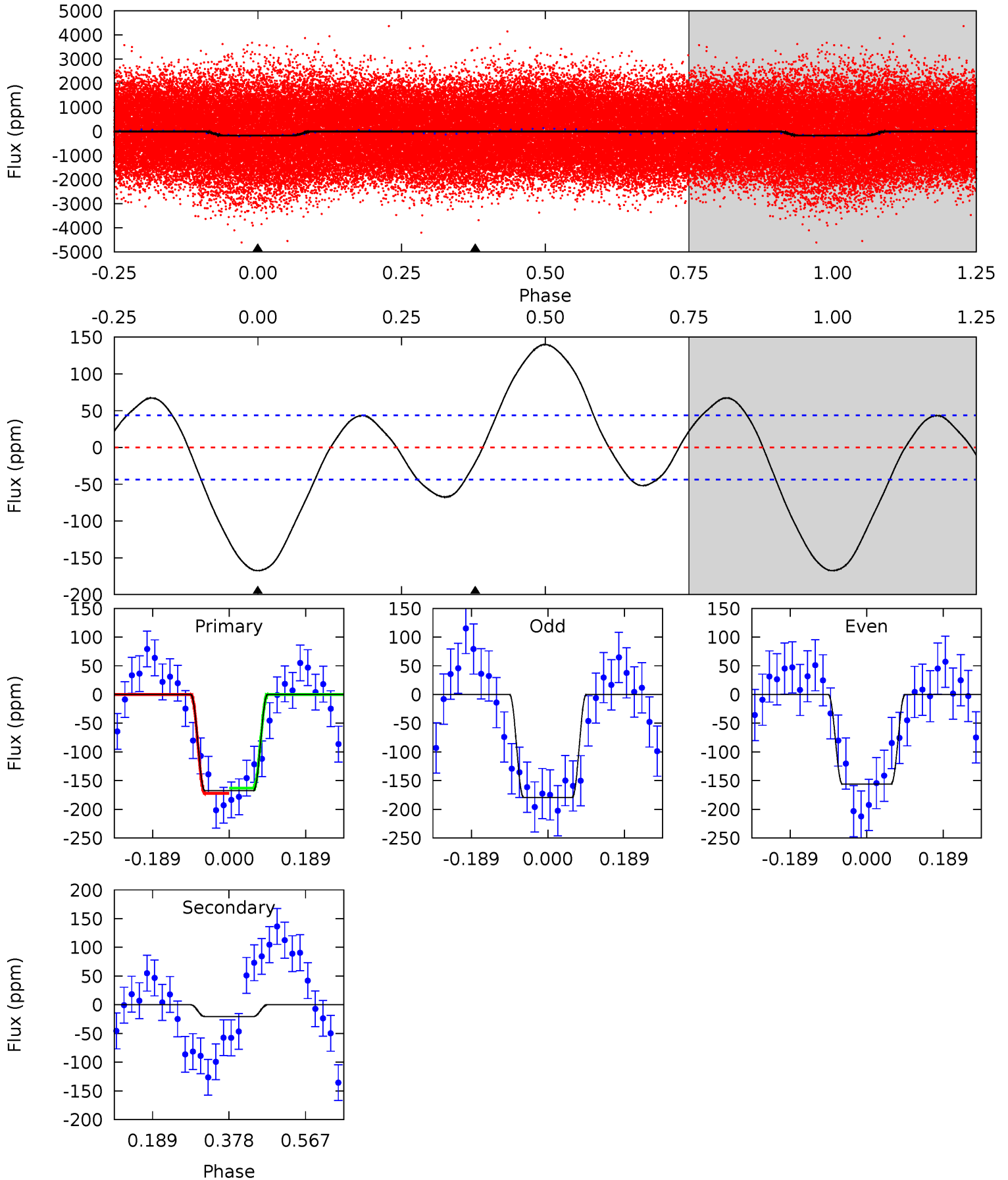
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.0	-0.56	0	0	4.31	0.98	0.59	20.0	20.0	-0.56	-0.56	1.75	0.93	0.33	0.24



Alt Model-Shift Uniqueness Test

005726667-01, P = 1.595095 Days, E = 130.871125 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.0	2.08	0	0	4.43	1.31	4.10	17.0	17.0	2.08	2.08	1.17	1.09	0.46	0.46



Stellar Parameters For KIC 005726667

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7968^{+63}_{-87}	$3.712^{+0.270}_{-0.072}$	$-0.020^{+0.200}_{-0.200}$	$3.321^{+0.579}_{-1.074}$	$2.075^{+0.237}_{-0.237}$	$0.080^{+0.142}_{-0.023}$
	+1%/-1%	+7%/-2%	+1000%/-1000%	+17%/-32%	+11%/-11%	+178%/-29%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005726667-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	2 ± 4	$2.44^{+0.88}_{-0.79}$	4748^{+212}_{-375}	-4452^{+1042}_{-765}	$-0.185^{+0.374}_{-0.616}$
Alt.	-21 ± 10	$4.54^{+1.18}_{-0.94}$	4741^{+227}_{-395}	4079^{+787}_{-6479}	$0.599^{+0.609}_{-0.307}$

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 $A_{obs} \gg 1.0$

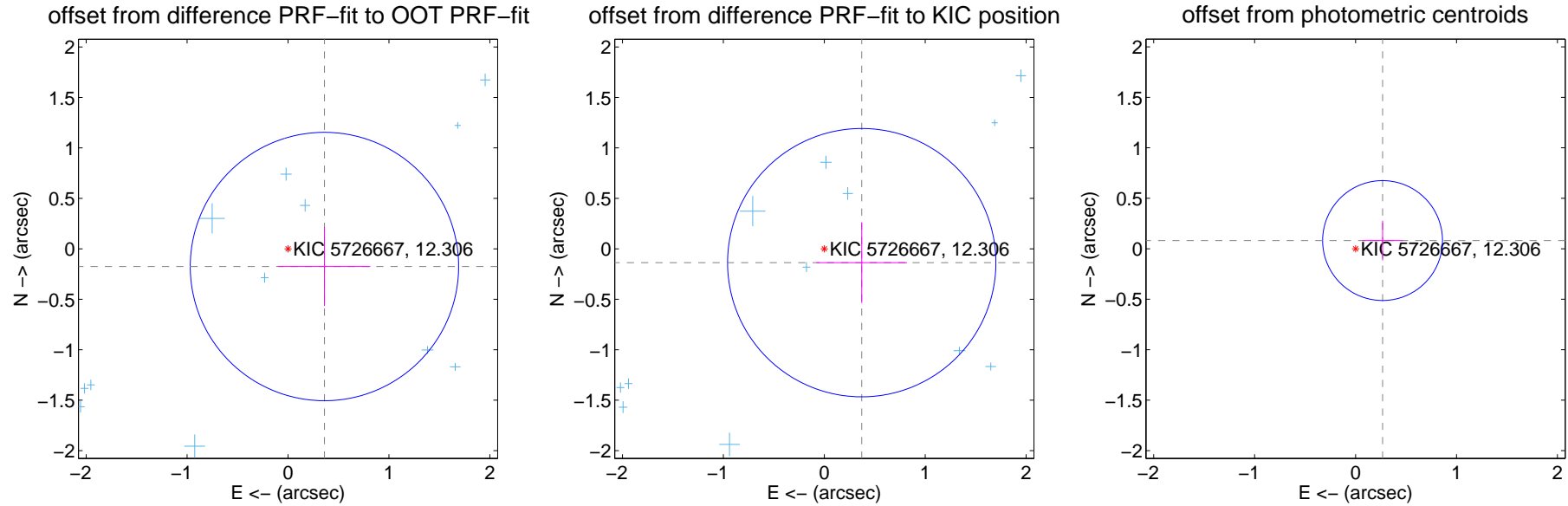
DV Centroid Data

Supplemental centroid analysis for 005726667-01. Kepler magnitude: 12.31. Transit SNR 7.79

There are 14 quarters with good PRF difference image offsets

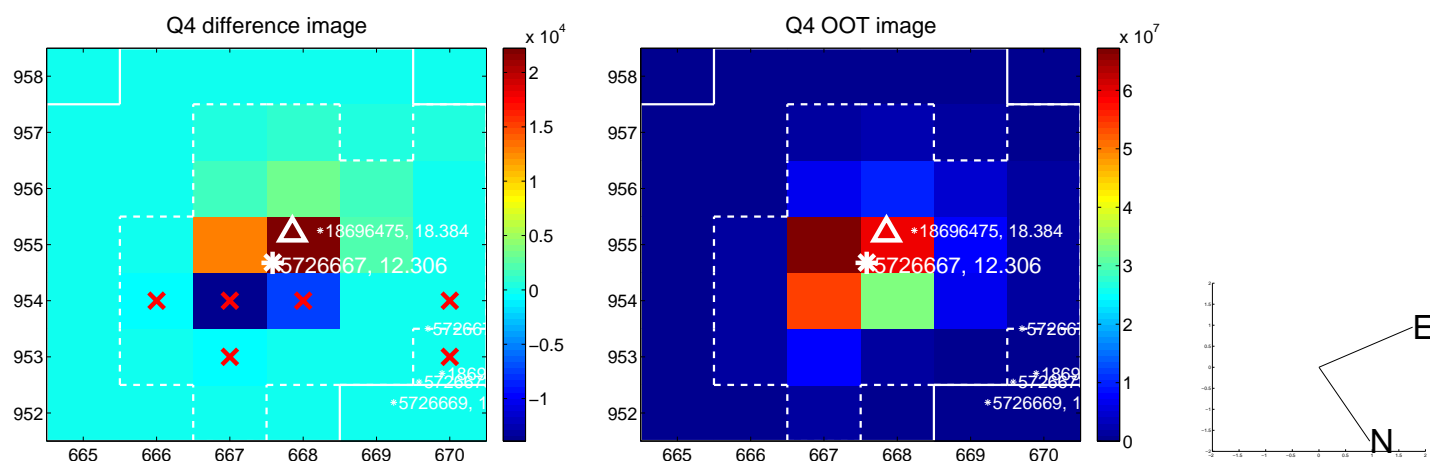
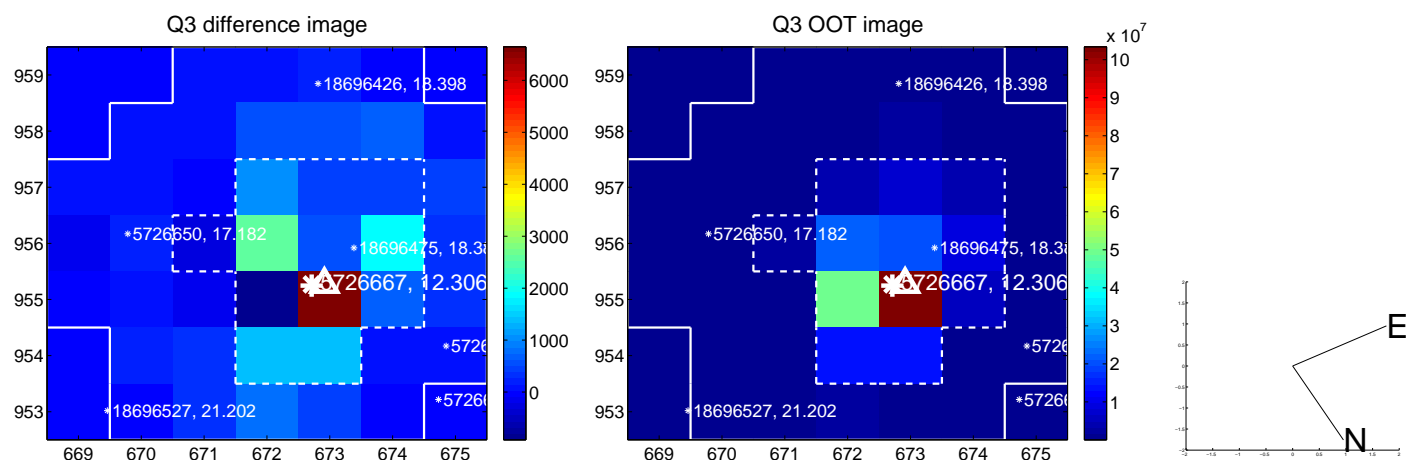
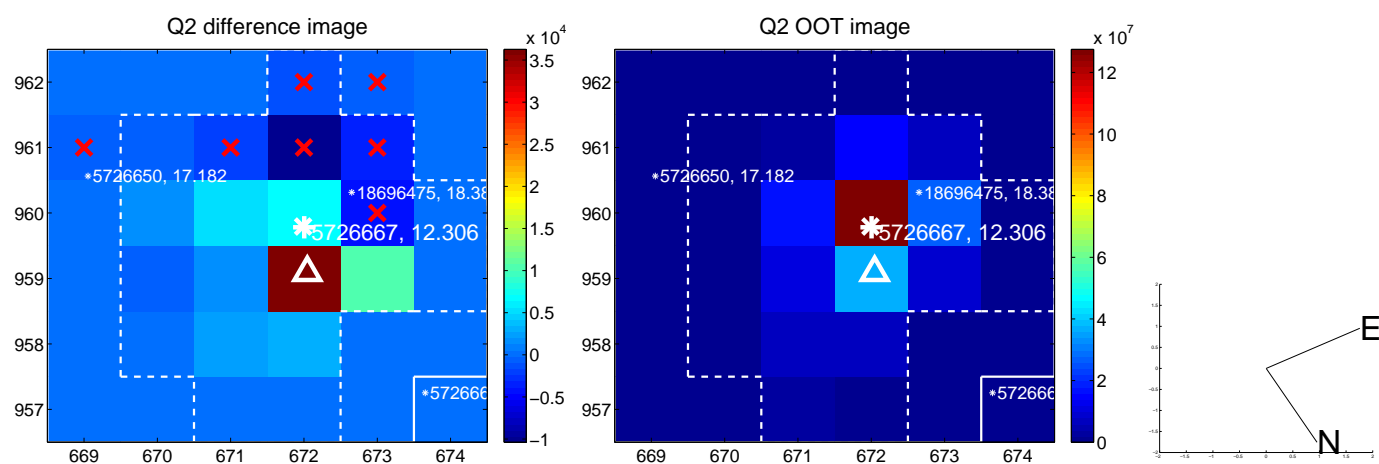
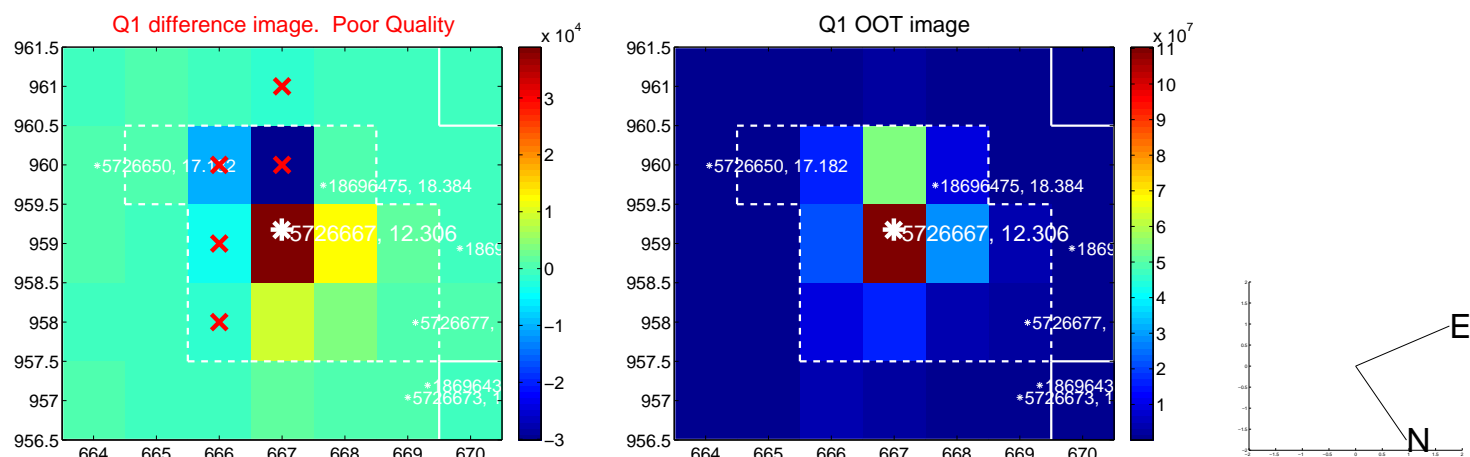
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.401 ± 0.443	0.91	-0.361 ± 0.455	-0.175 ± 0.391
PRF-fit source offset from KIC position	0.396 ± 0.443	0.89	-0.371 ± 0.449	-0.137 ± 0.400
photometric centroid source offset	0.28 ± 0.20	1.41	-0.27 ± 0.20	0.08 ± 0.20

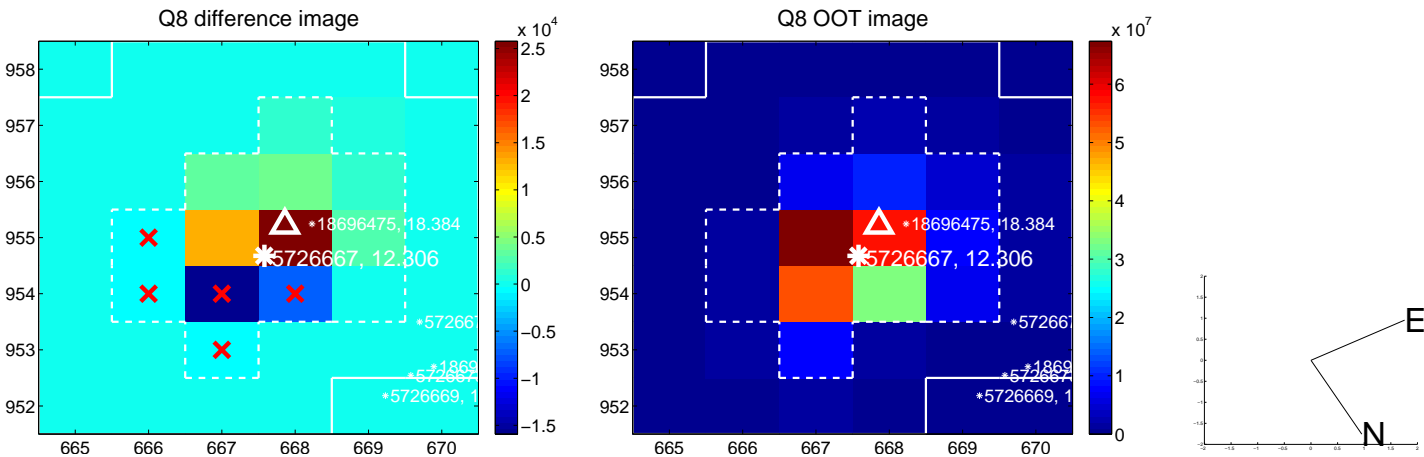
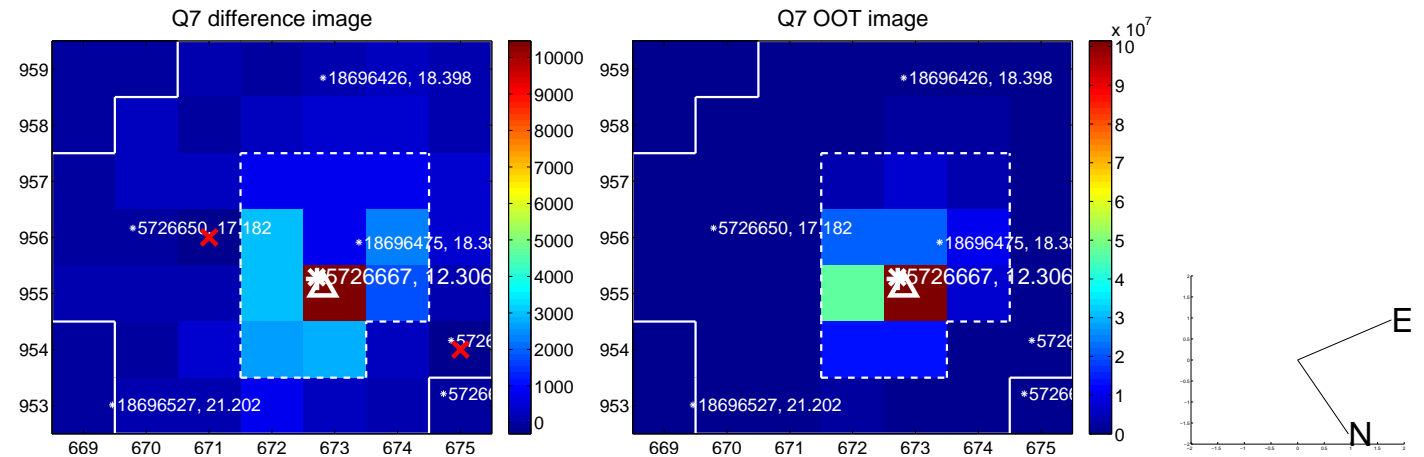
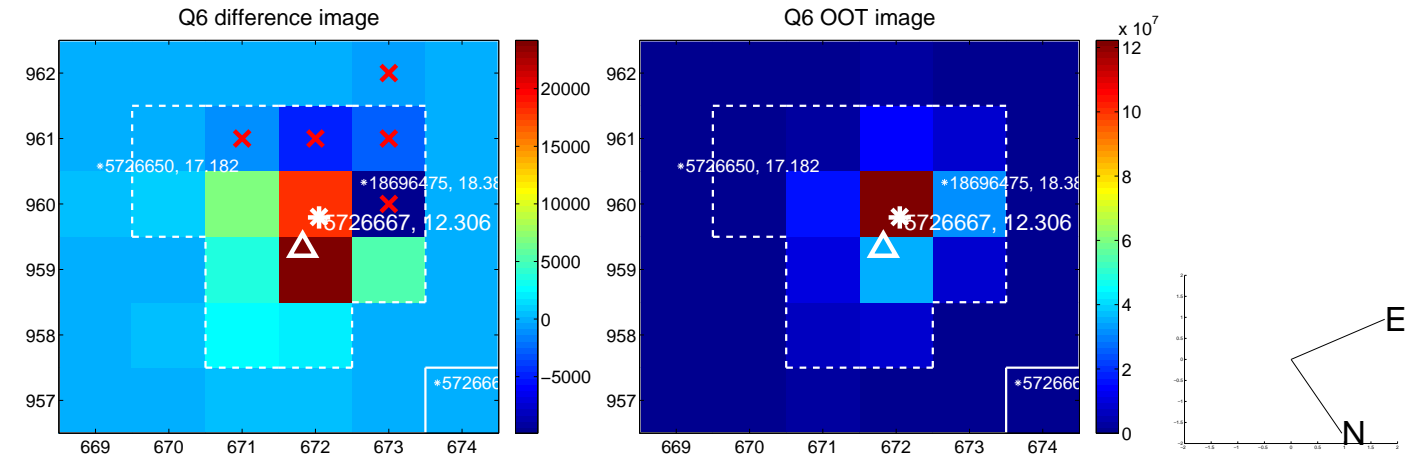
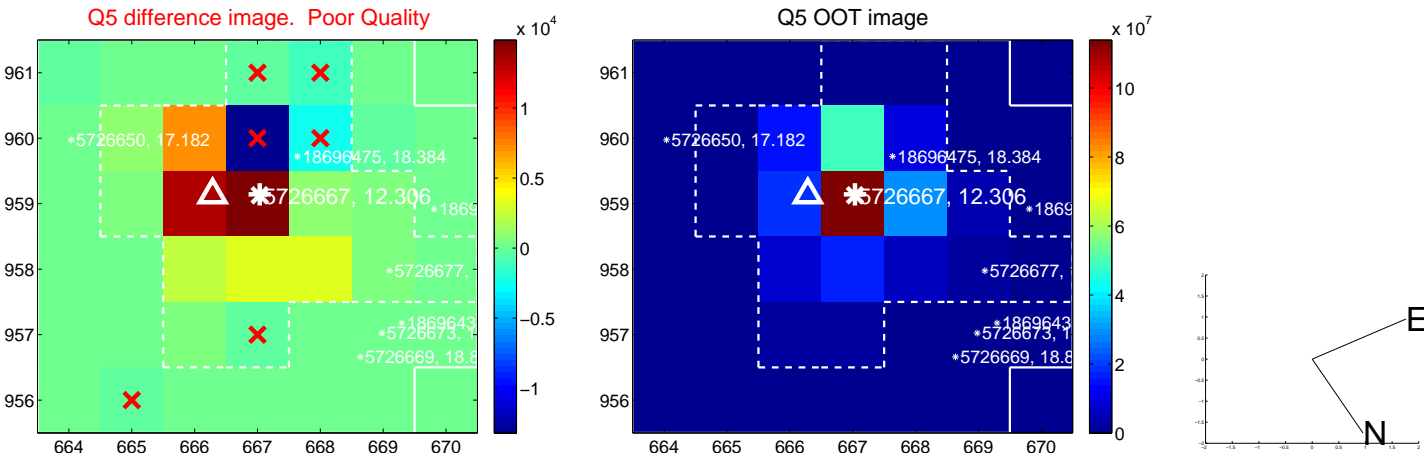


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

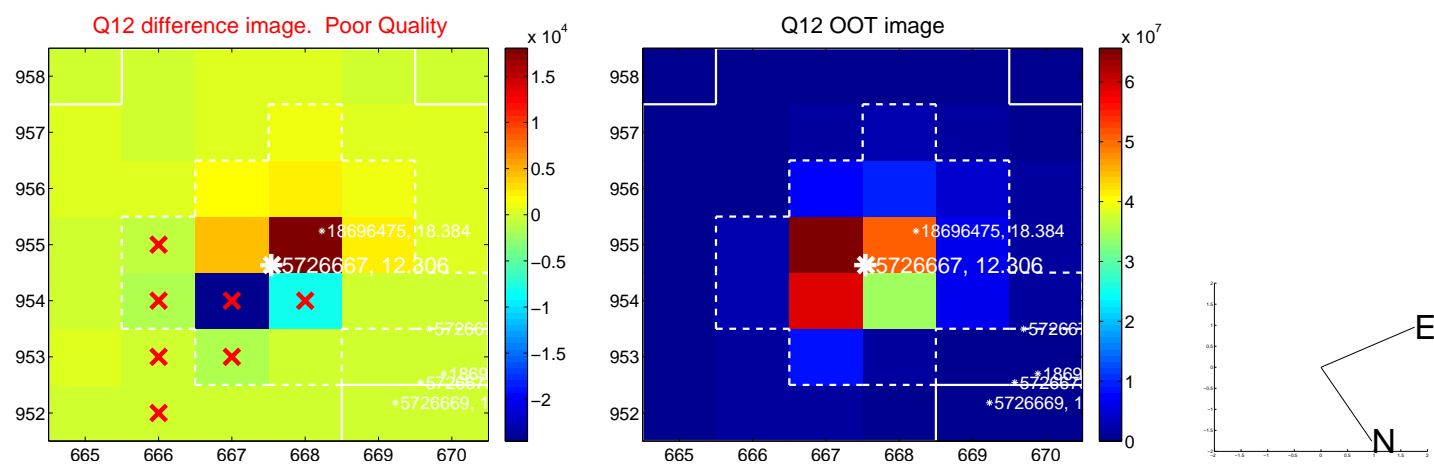
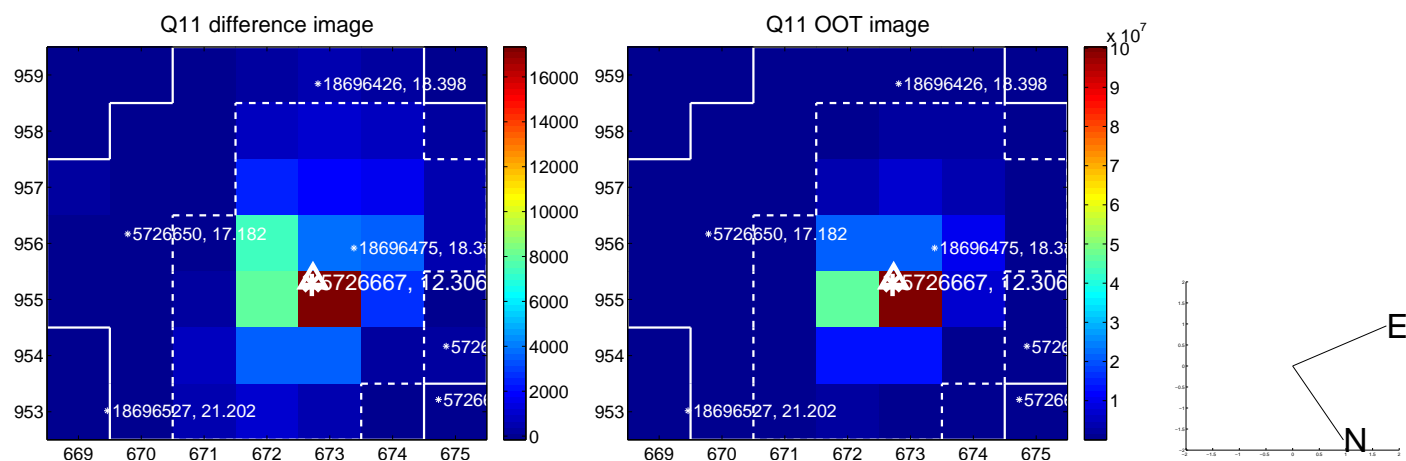
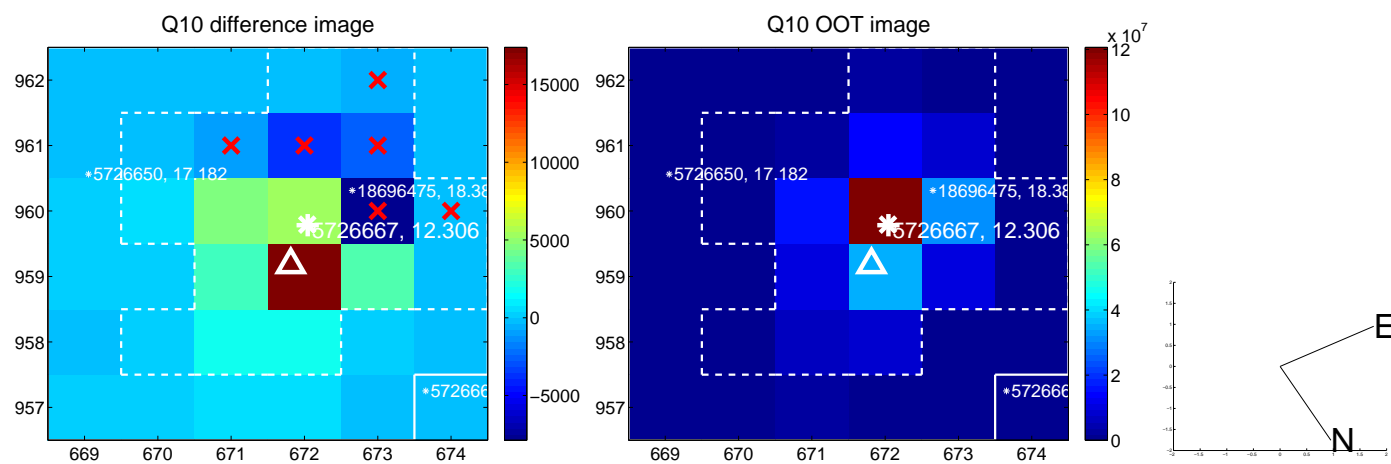
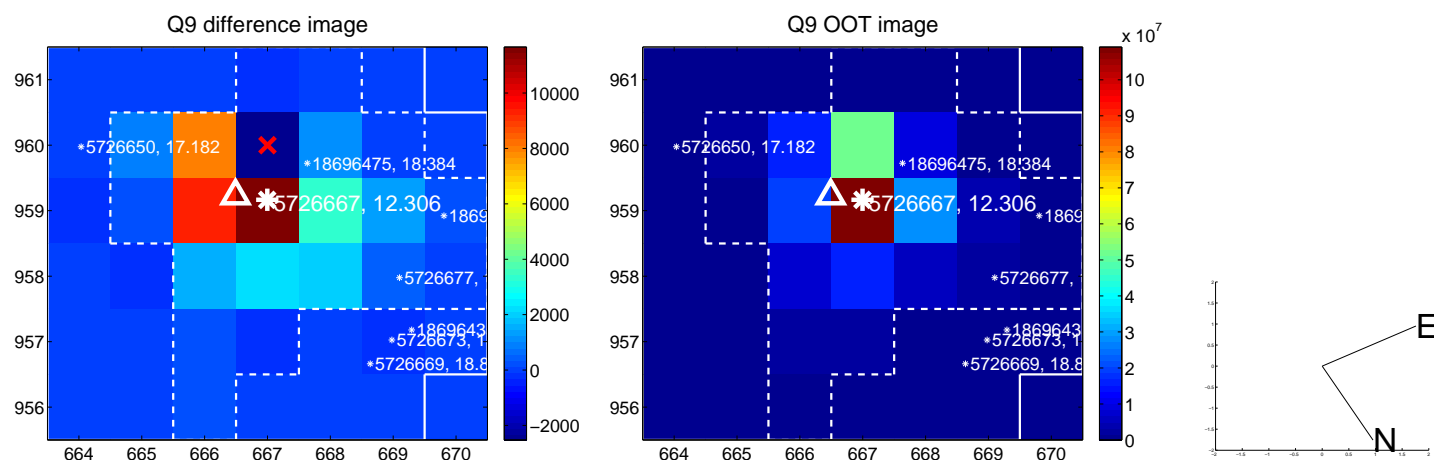
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



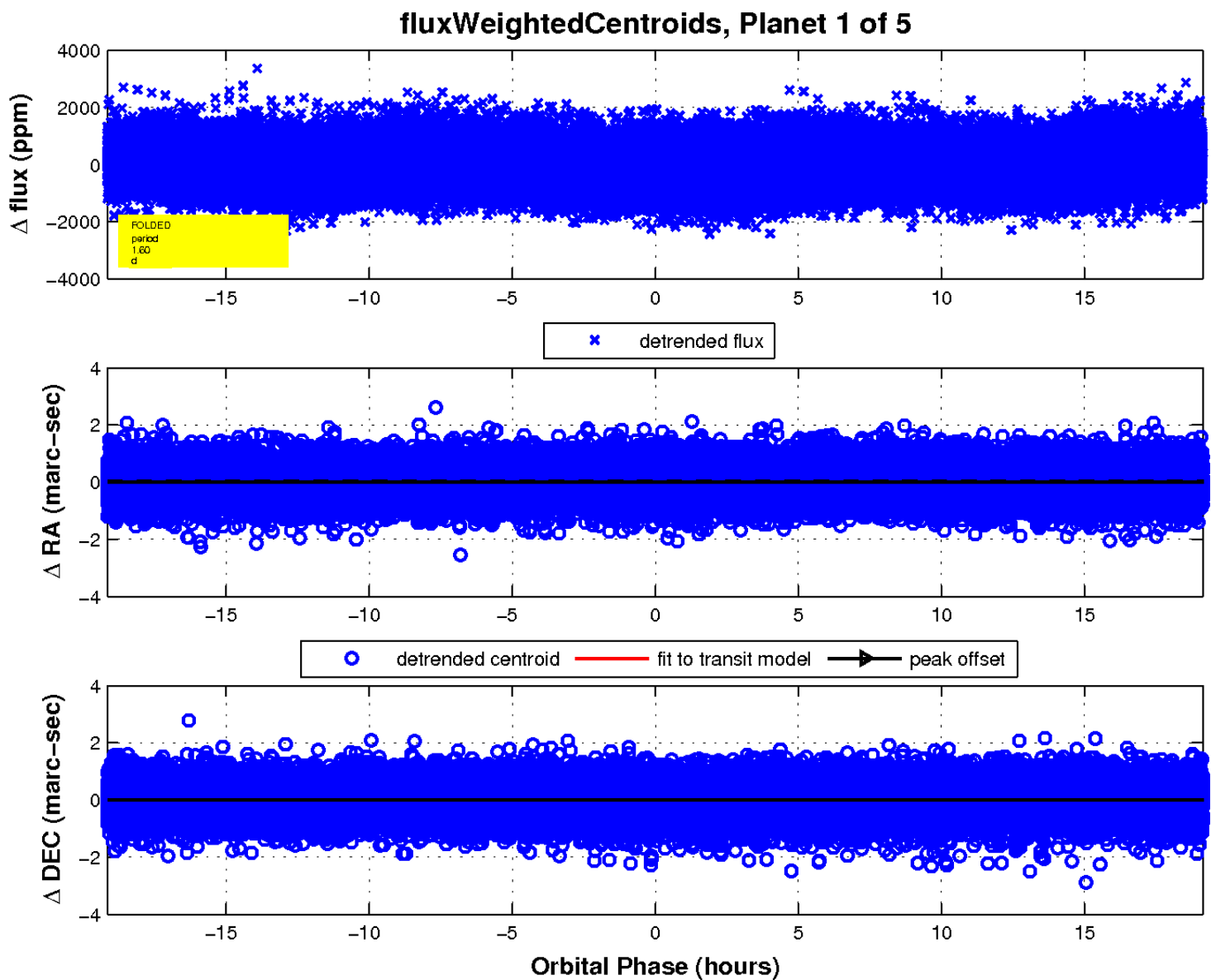
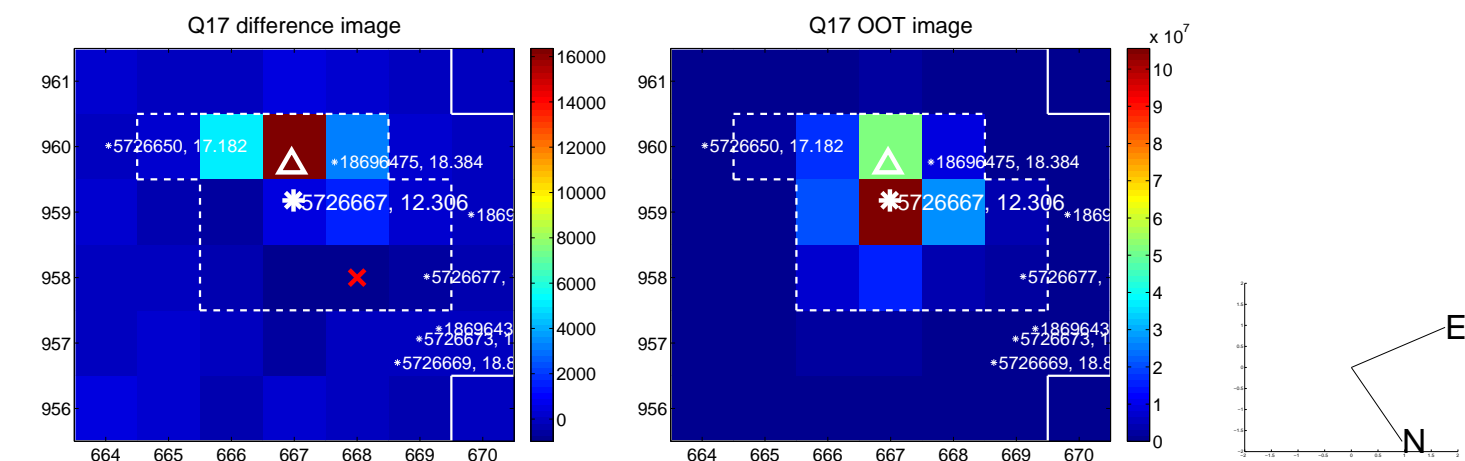
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

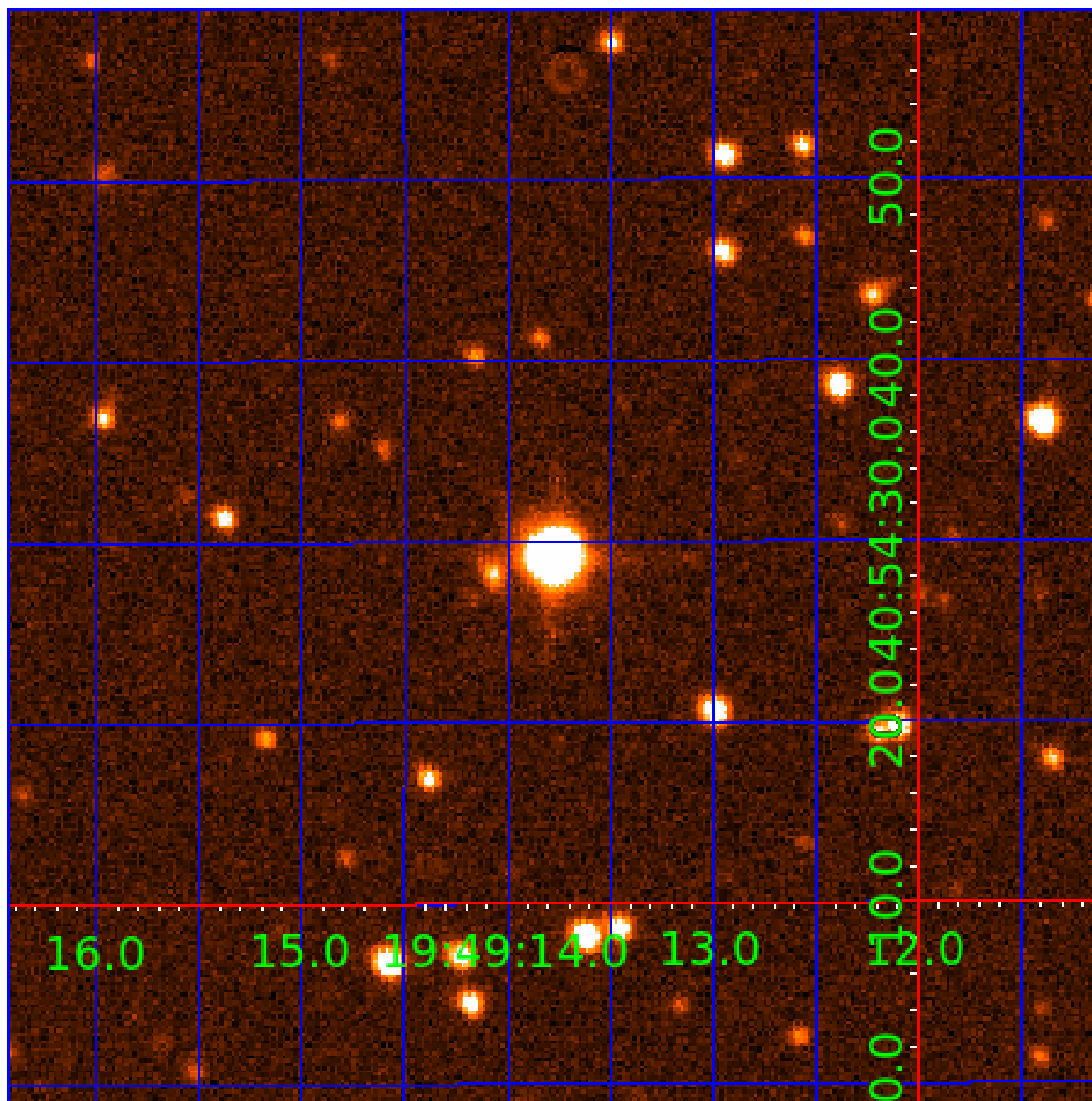


white \times : KIC target position; $+$: OOT centroid; Δ : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005726667

Q1-17 DR25 TCE Parameters

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Robovetter Results

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005726667-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
005726667-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005726667-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005726667-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—HALO_GHOST

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

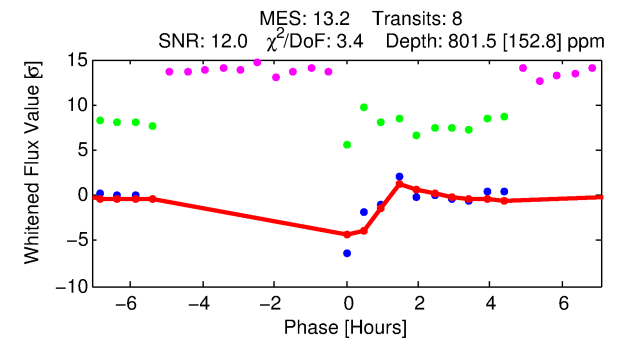
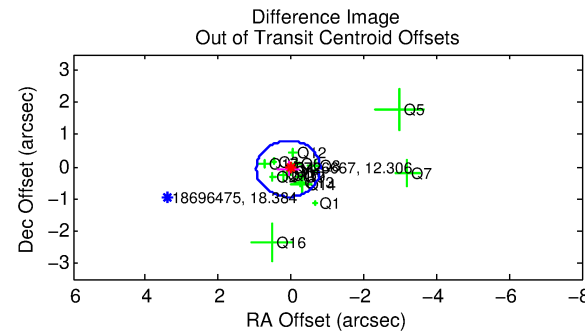
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

Ephemeris Match Information For 005726667-02

No Significant Match Found

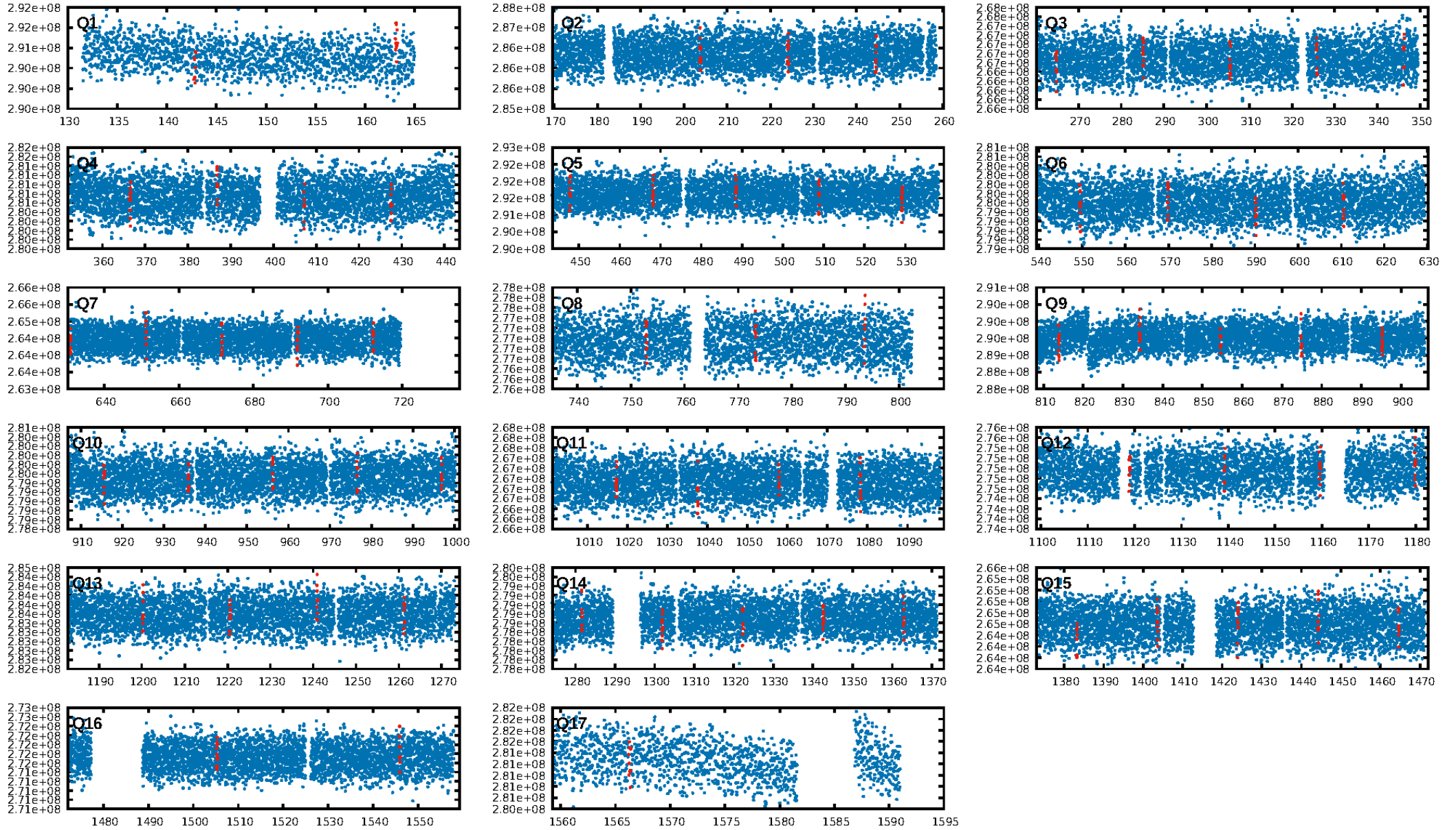
KIC: 5726667 Candidate: 2 of 5 Period: 20.336 d



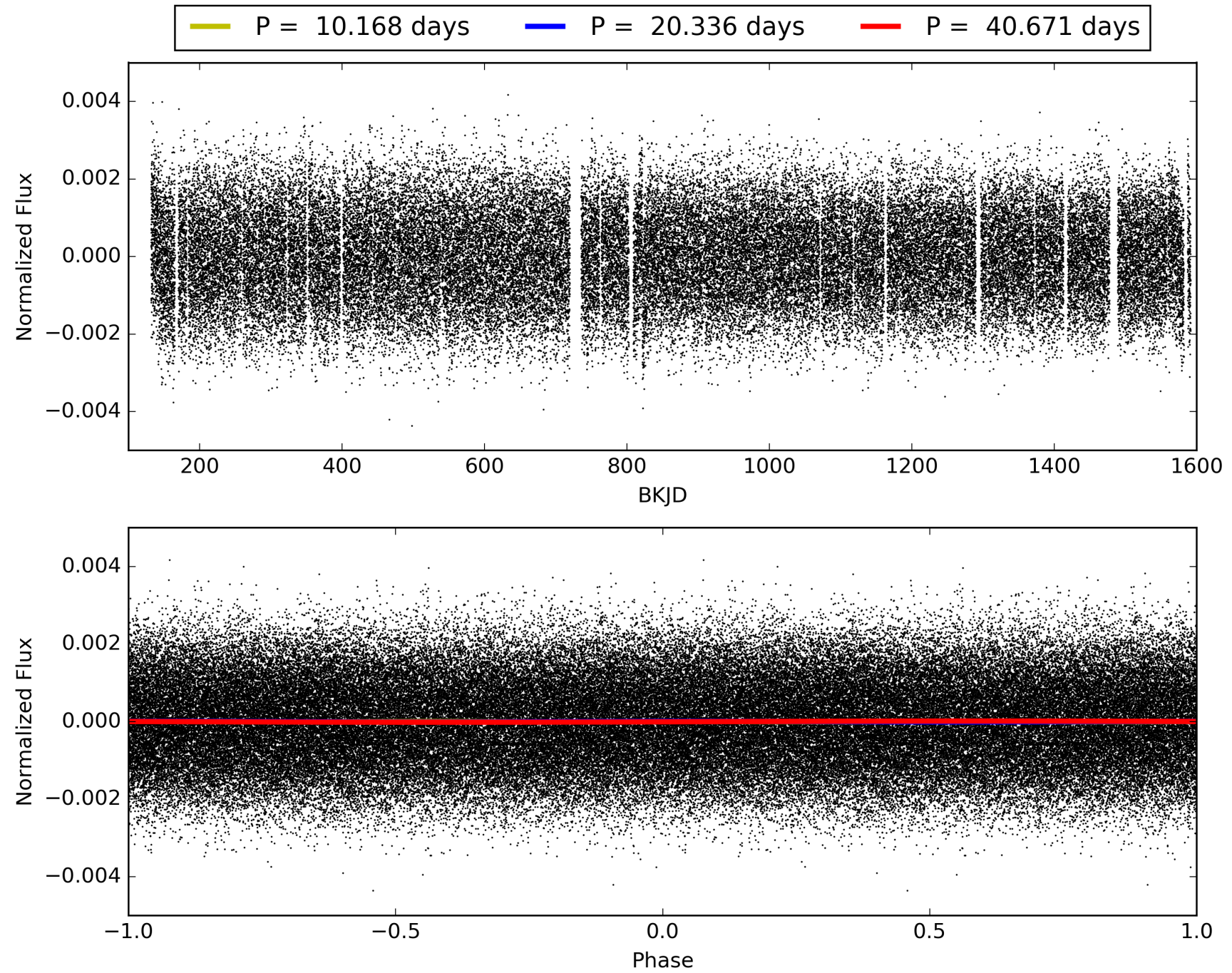
ShortPeriod-sig: 100.0% [36.70σ]
 LongPeriod-sig: 100.0% [22.57σ]
 ModelChiSquare2-sig: 0.0%
 ModelChiSquareGof-sig: 54.8%
 Bootstrap-pfa: 3.05e-20
 RollingBand-fgt: 1.00 [7/7]
 GhostDiagnostic-chr: 5.489

Centroid-sig: 40.9%
 Centroid-so: 0.078 arcsec [0.79σ]
 OotOffset-rm: 0.102 arcsec [0.35σ]
 KicOffset-rm: 0.092 arcsec [0.31σ]
 OotOffset-st: 4/4/4/5 [17]
 KicOffset-st: 4/4/4/5 [17]
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 DiffImageOverlap-fno: 0.82 [14/17]

TCE 005726667-02, PDC Light Curves

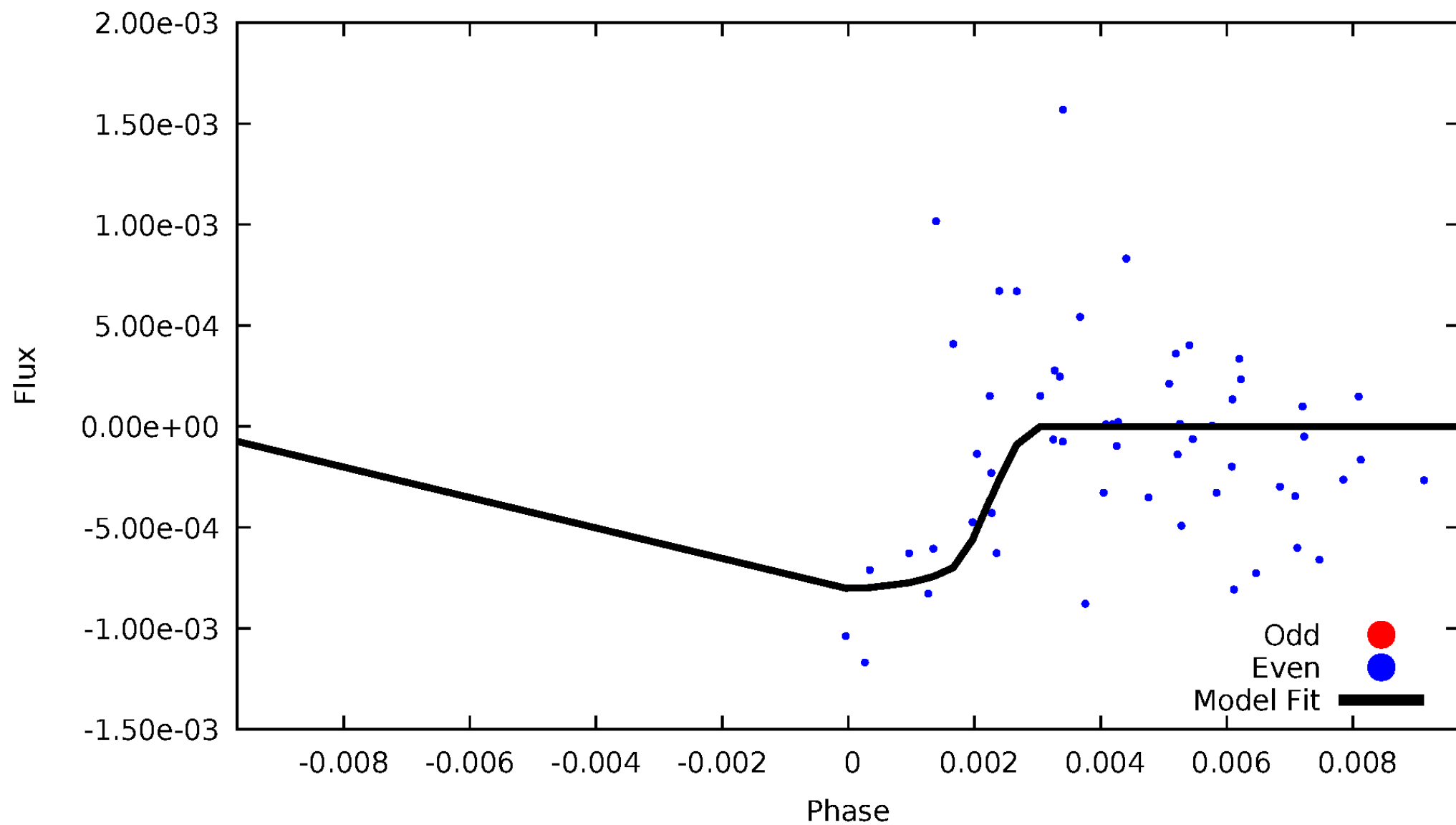


TCE 005726667-02



DV Odd/Even

TCE 005726667-02

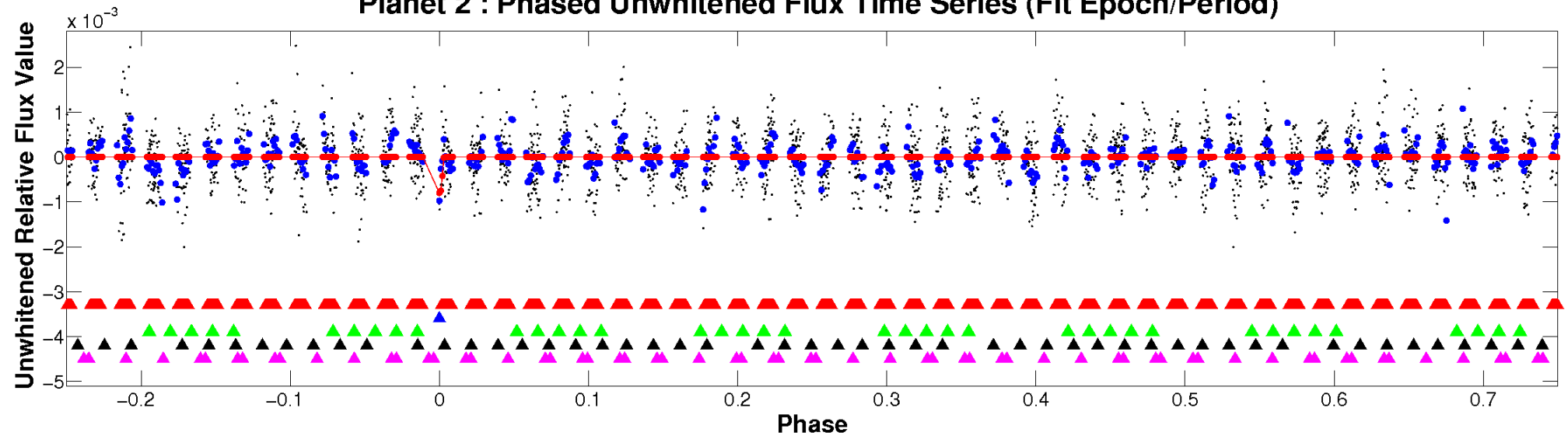


ALT Odd/Even

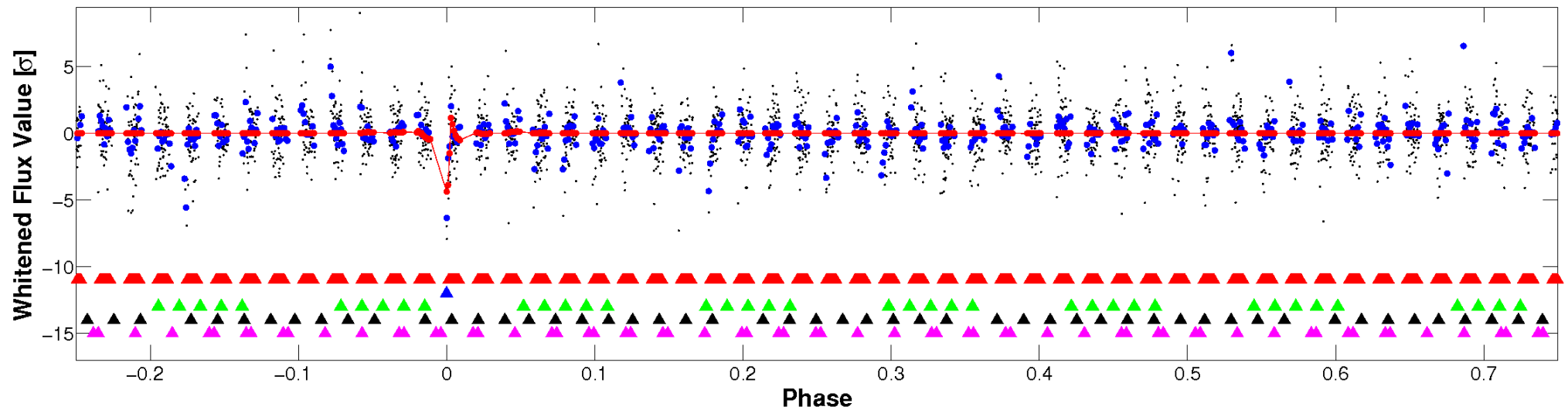
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

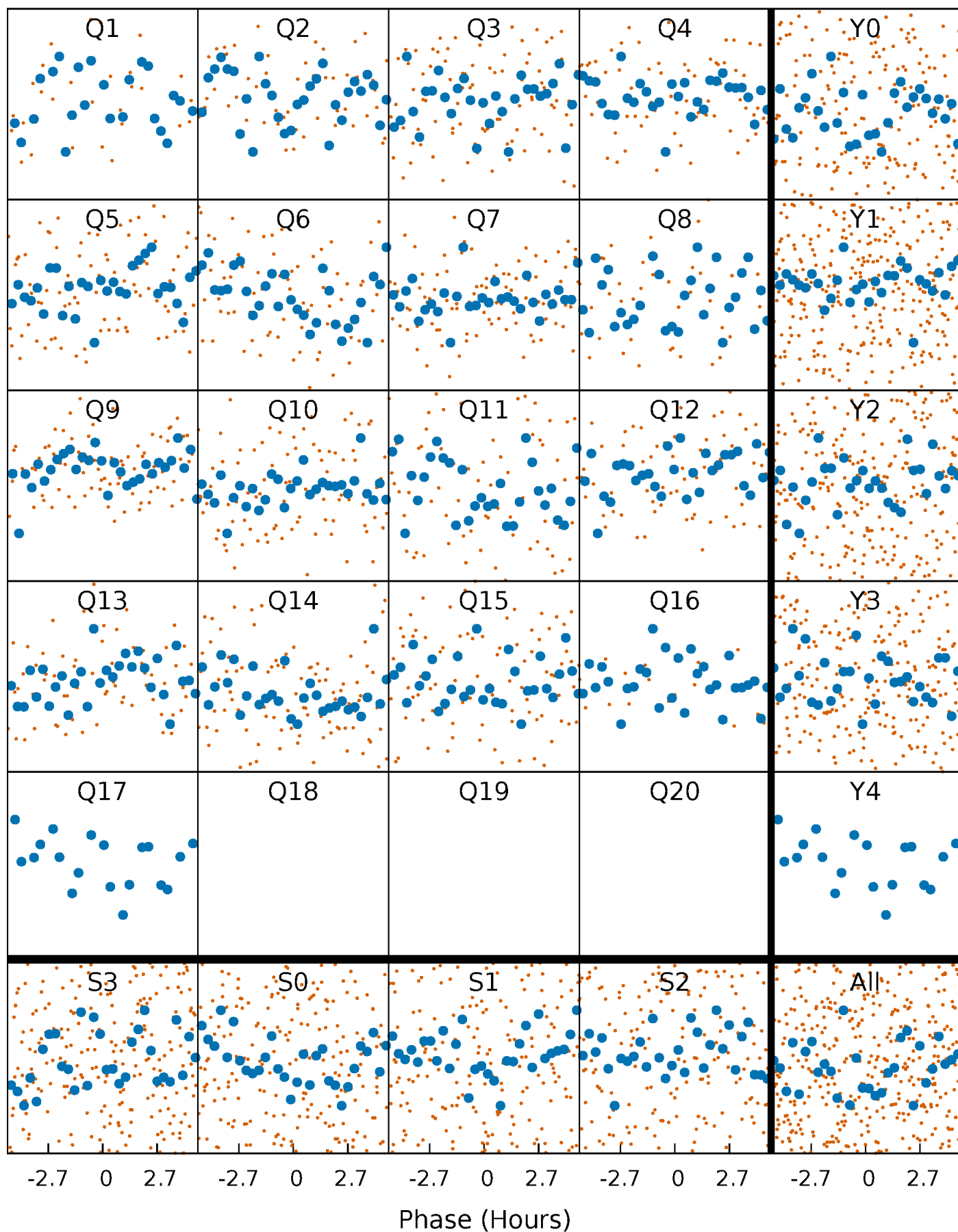


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



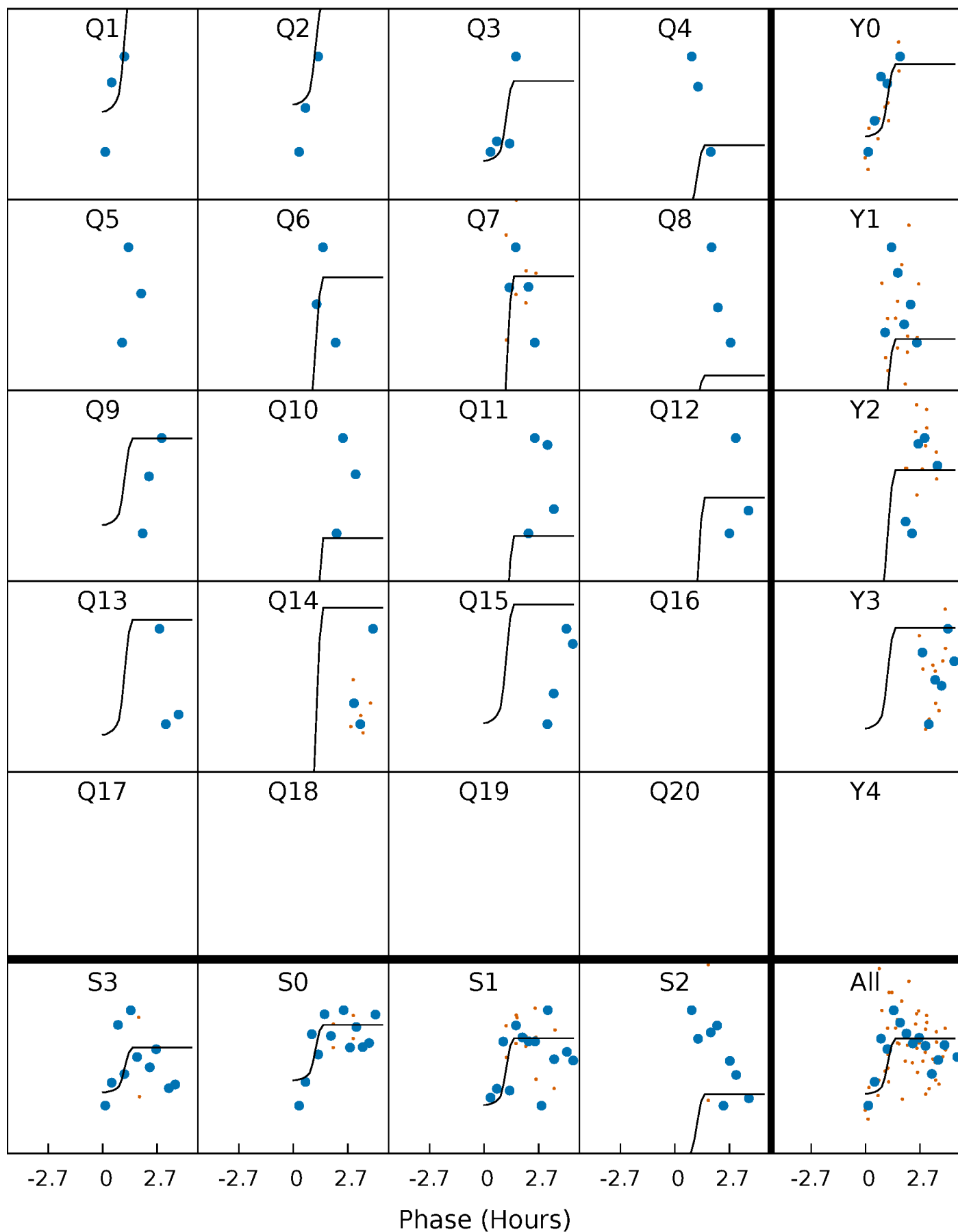
PDC Quarter-Phased Transit Curves

TCE 005726667-02 P= 20.335517 Days $T_0=142.813207$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 005726667-02 P= 20.335517 Days $T_0=142.813207$ (BKJD)

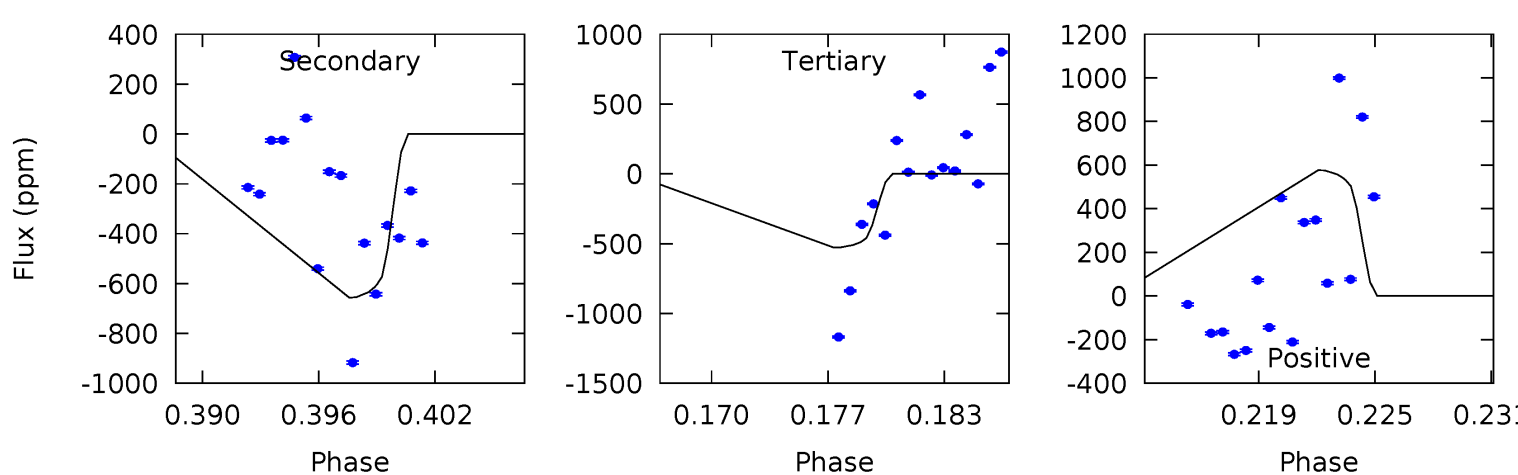
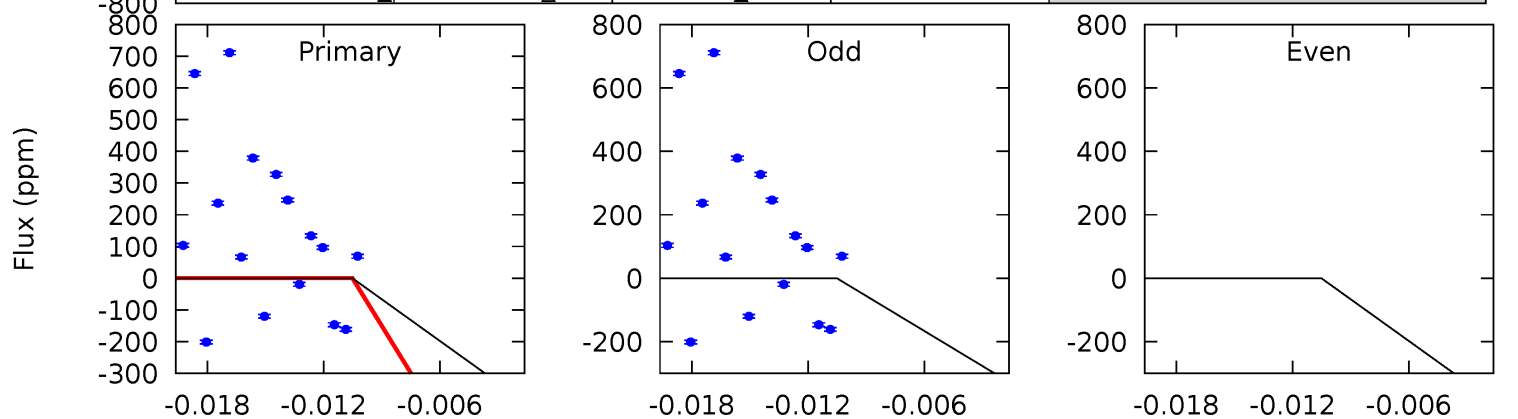
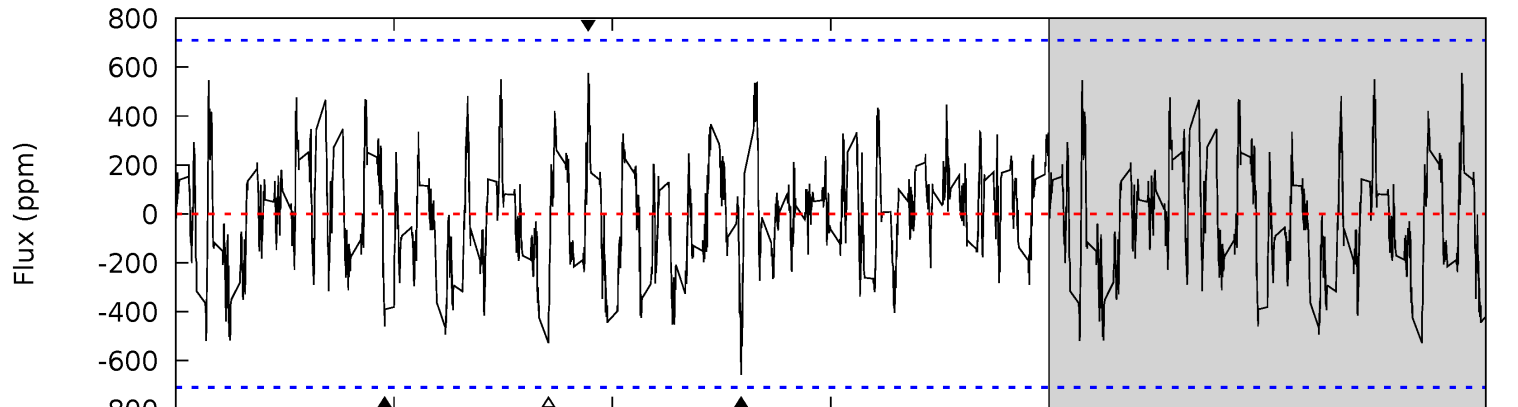
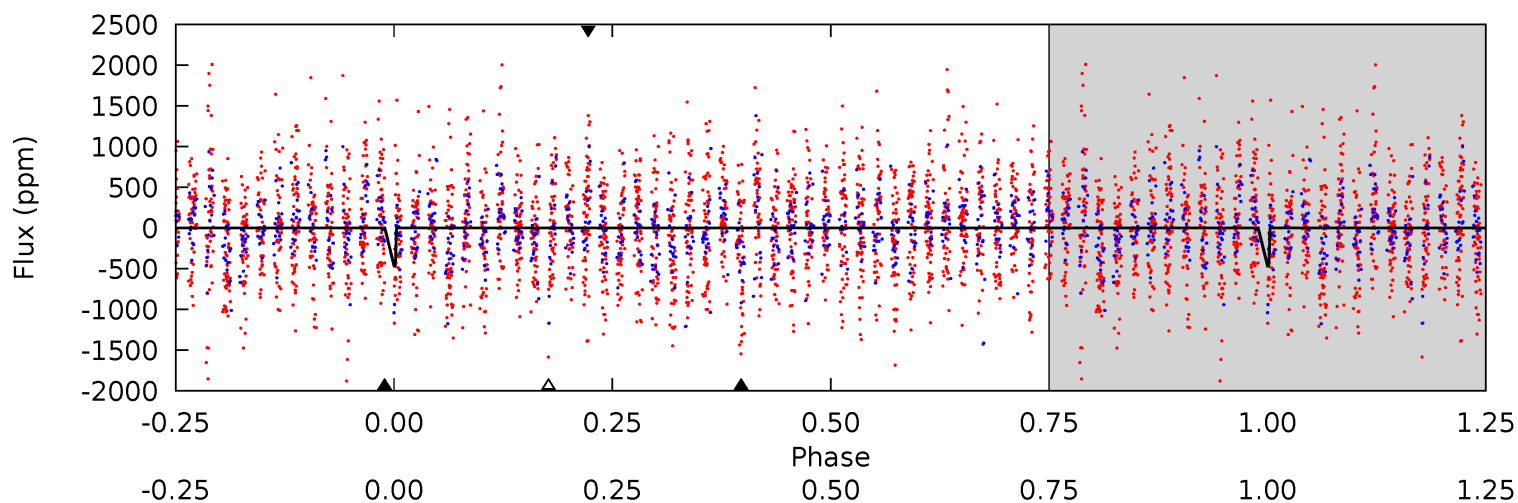


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

005726667-02, P = 20.335517 Days, E = 122.477690 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.31	4.74	3.81	4.16	5.12	2.74	1.41	-0.50	-0.84	0.93	0.58	0.38	0.22	0.47	1.16



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 005726667

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7968^{+63}_{-87}	$3.712^{+0.270}_{-0.072}$	$-0.020^{+0.200}_{-0.200}$	$3.321^{+0.579}_{-1.074}$	$2.075^{+0.237}_{-0.237}$	$0.080^{+0.142}_{-0.023}$
	+1%/-1%	+7%/-2%	+1000%/-1000%	+17%/-32%	+11%/-11%	+178%/-29%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005726667-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-657 ± 139	$19.26^{+18.27}_{-13.01}$	2043^{+82}_{-155}	5259^{+4581}_{-1218}	34^{+281}_{-25}
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 $A_{obs} \gg 1.0$

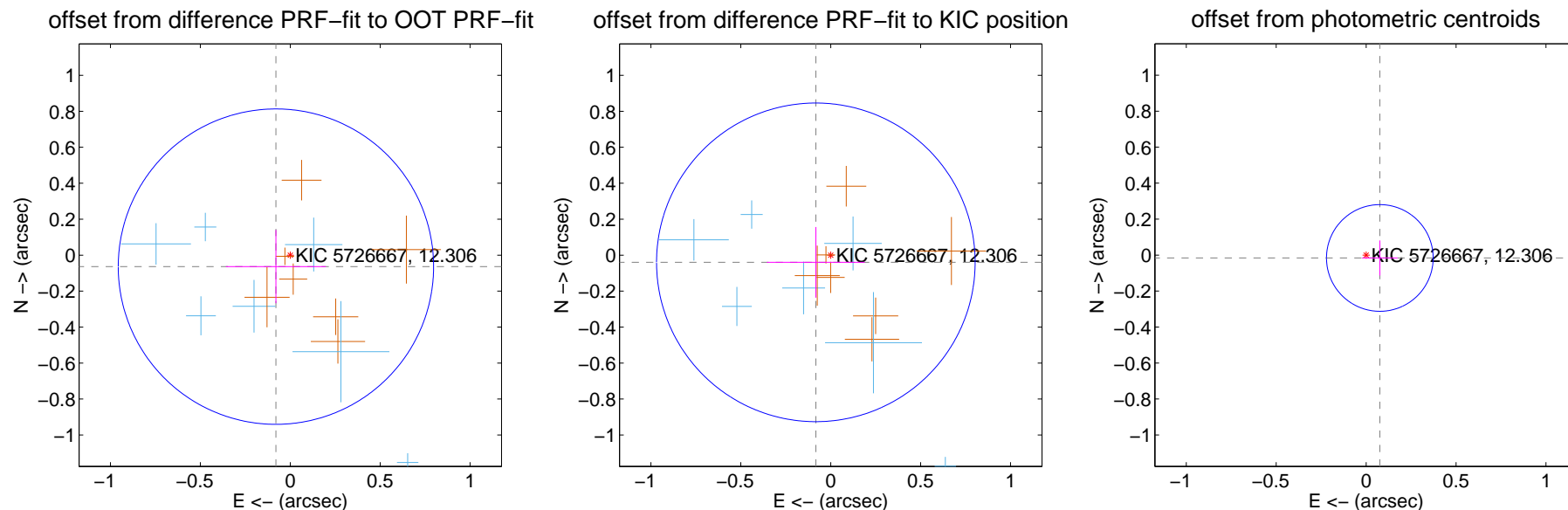
DV Centroid Data

Supplemental centroid analysis for 005726667-02. Kepler magnitude: 12.31. Transit SNR 11.95

There are 8 quarters with good PRF difference image offsets

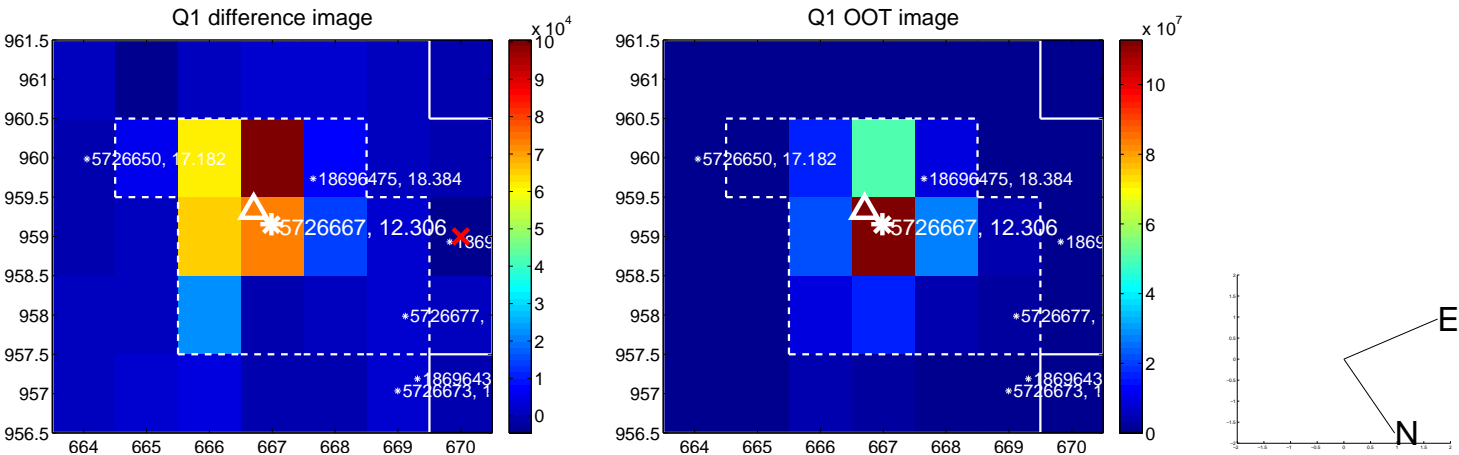
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.102 ± 0.292	0.35	0.080 ± 0.278	-0.064 ± 0.203
PRF-fit source offset from KIC position	0.092 ± 0.295	0.31	0.083 ± 0.272	-0.040 ± 0.197
photometric centroid source offset	0.08 ± 0.10	0.79	-0.08 ± 0.10	-0.02 ± 0.10

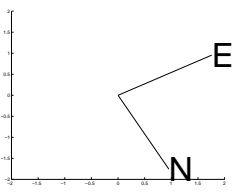
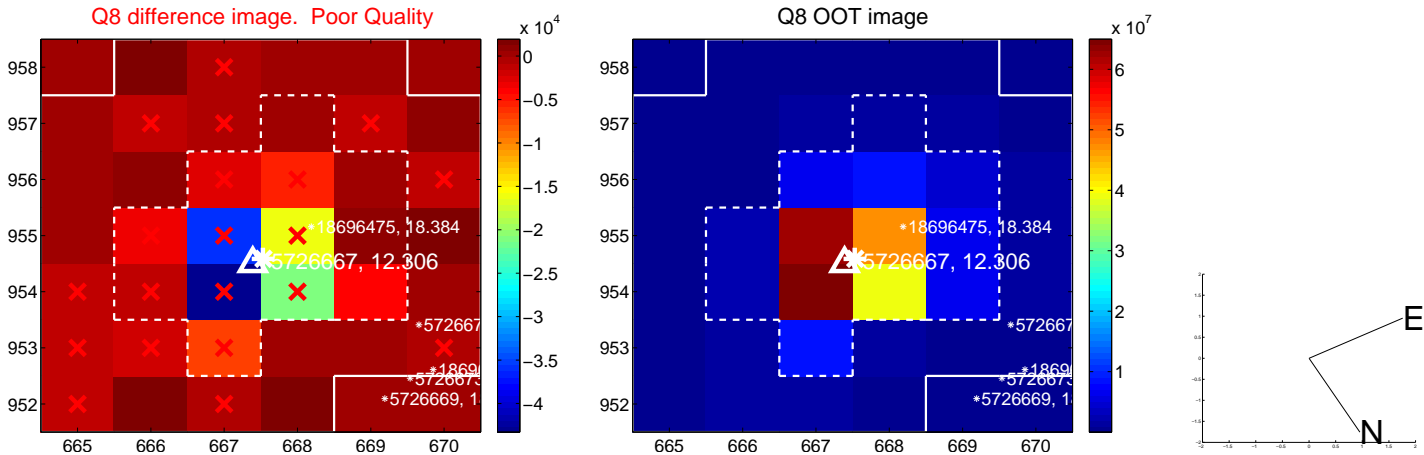
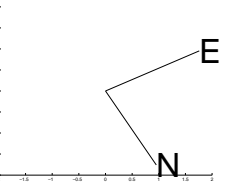
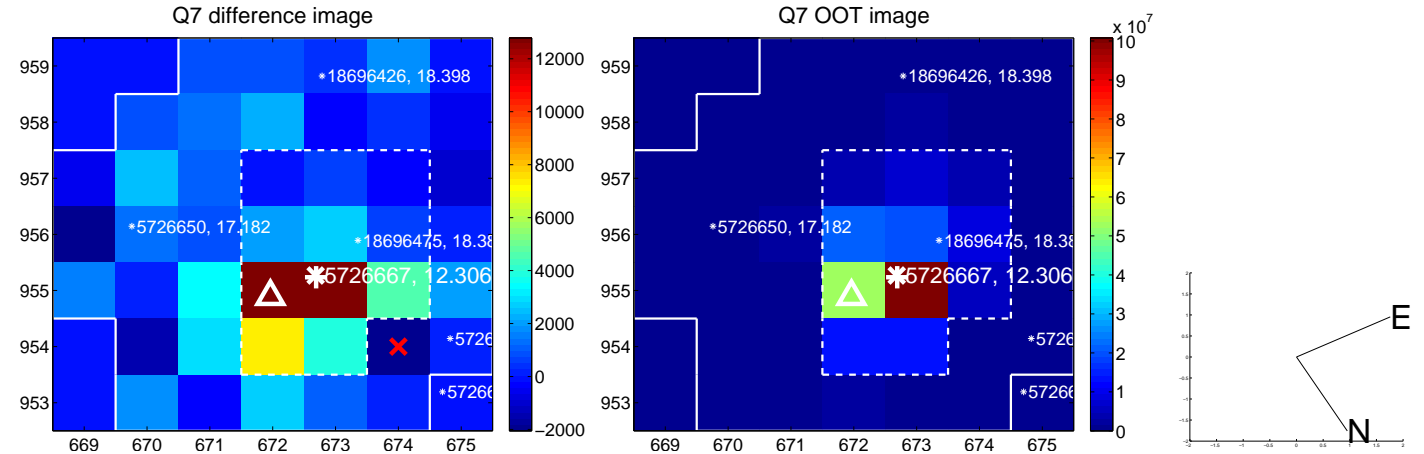
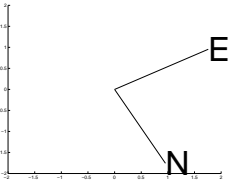
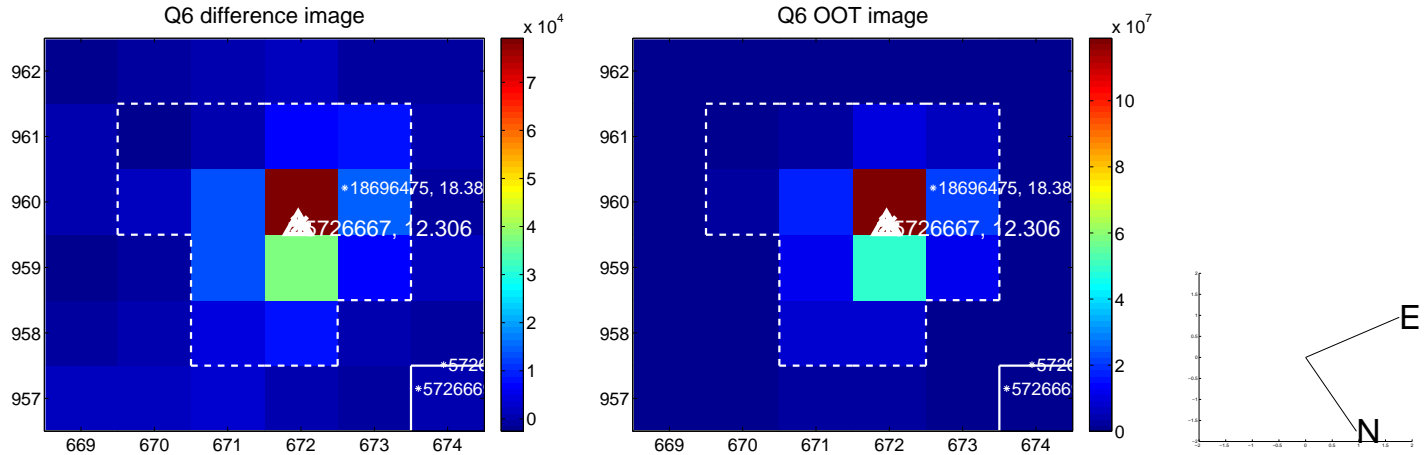
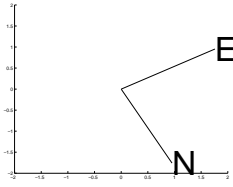
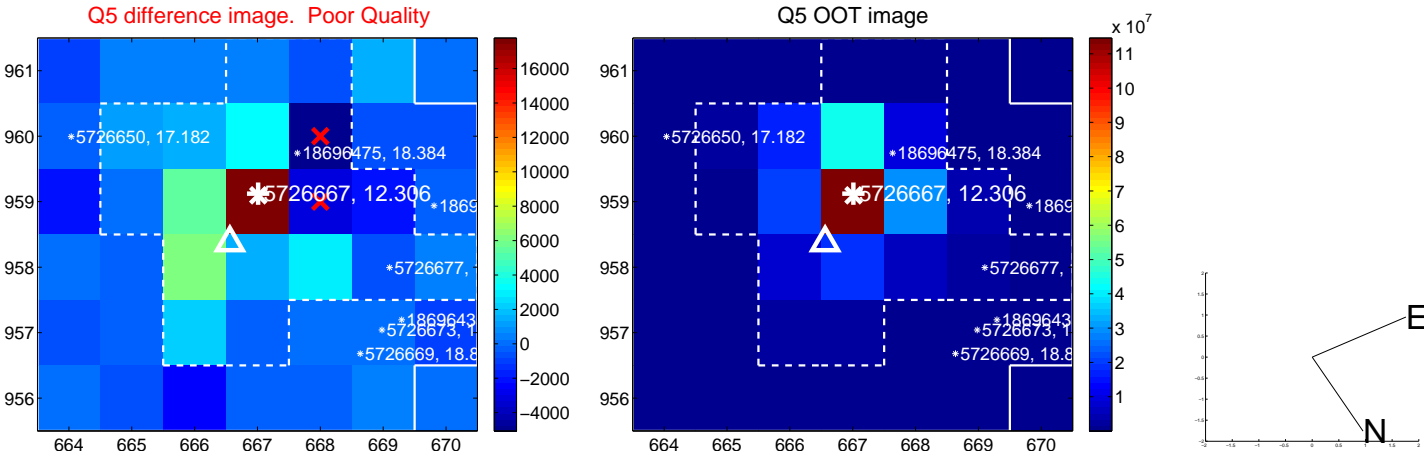


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

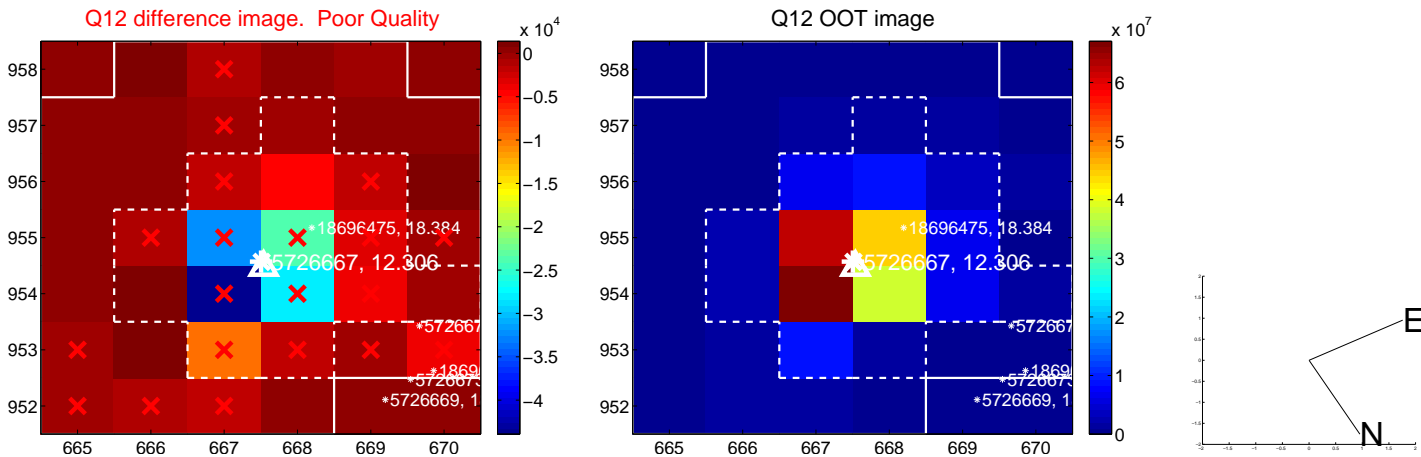
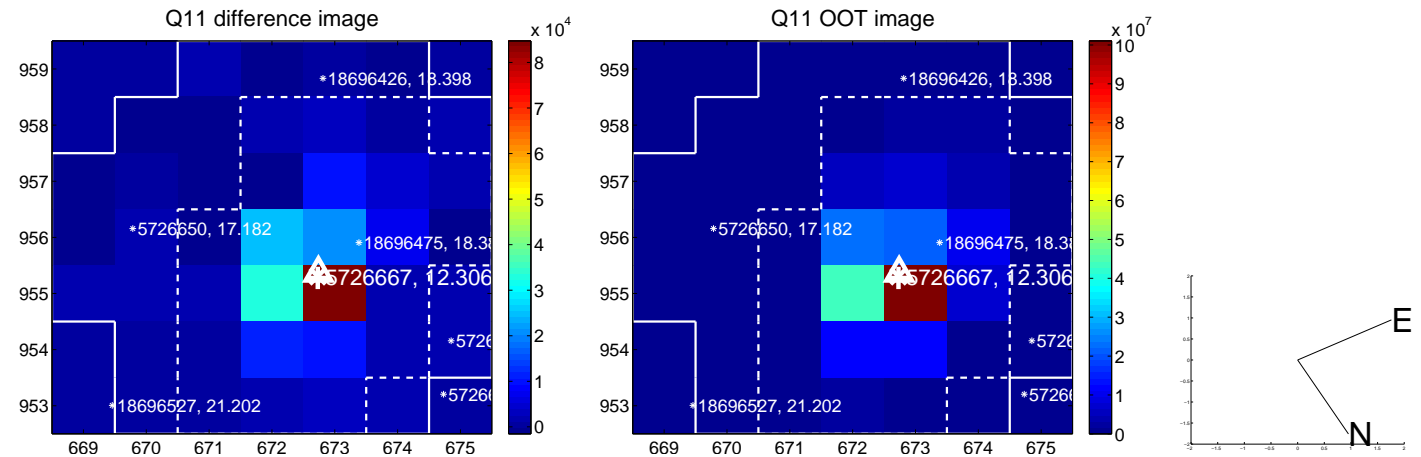
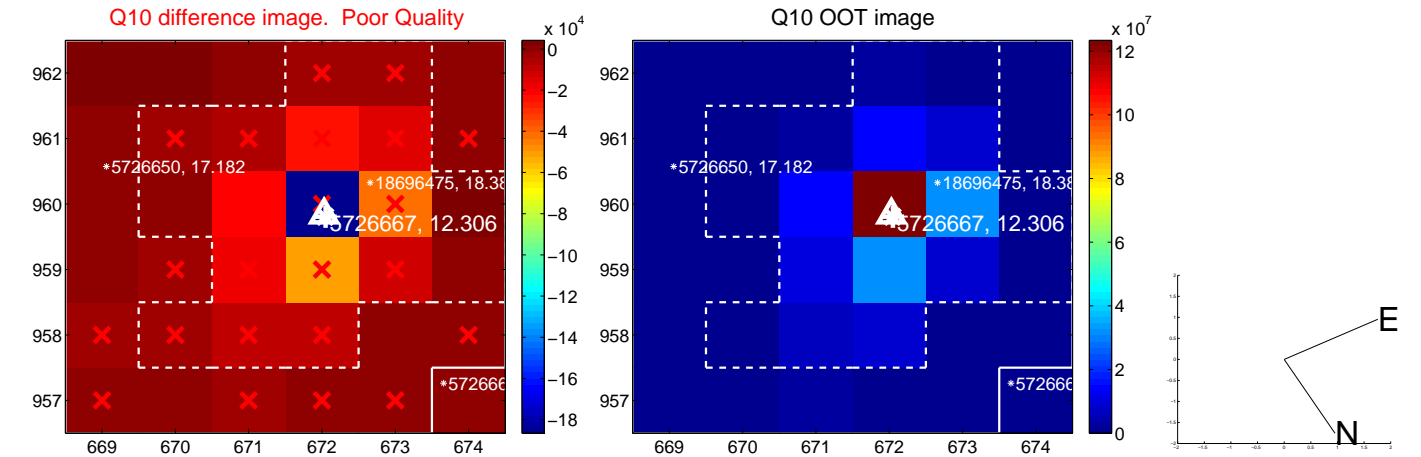
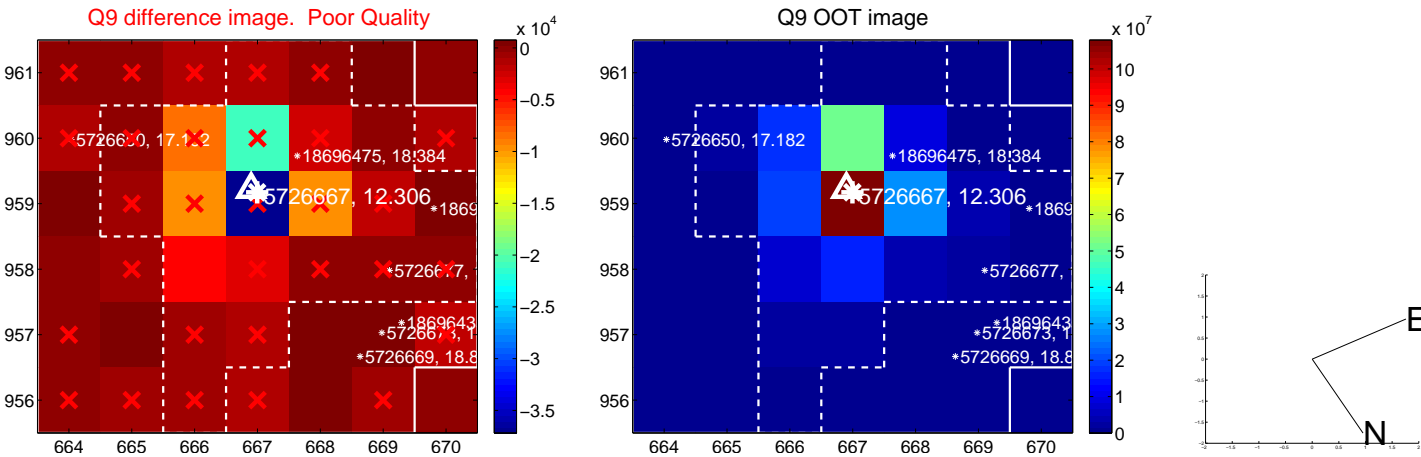
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



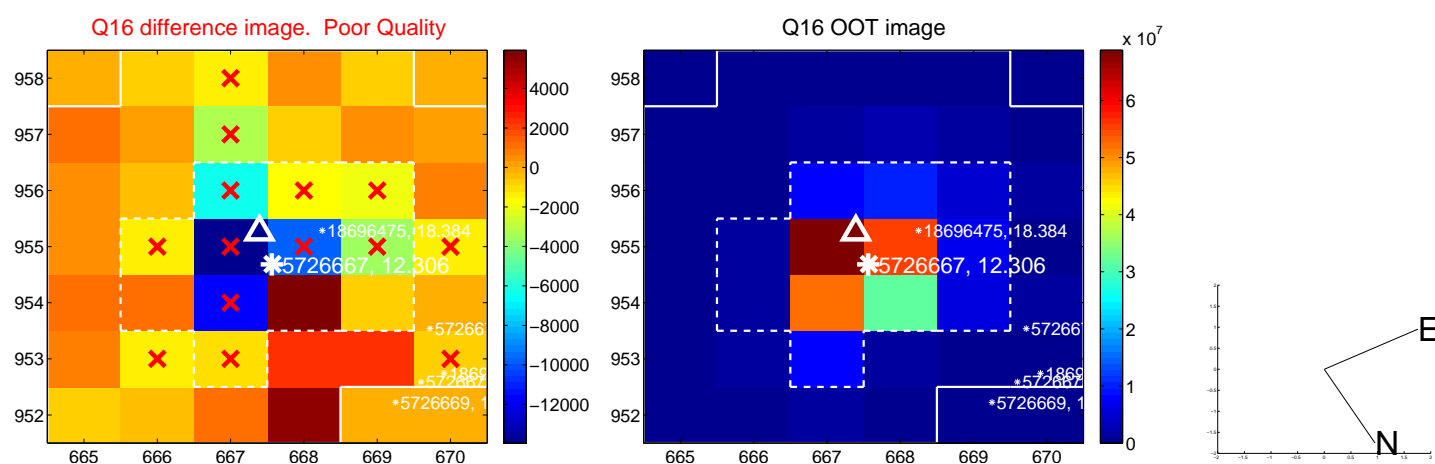
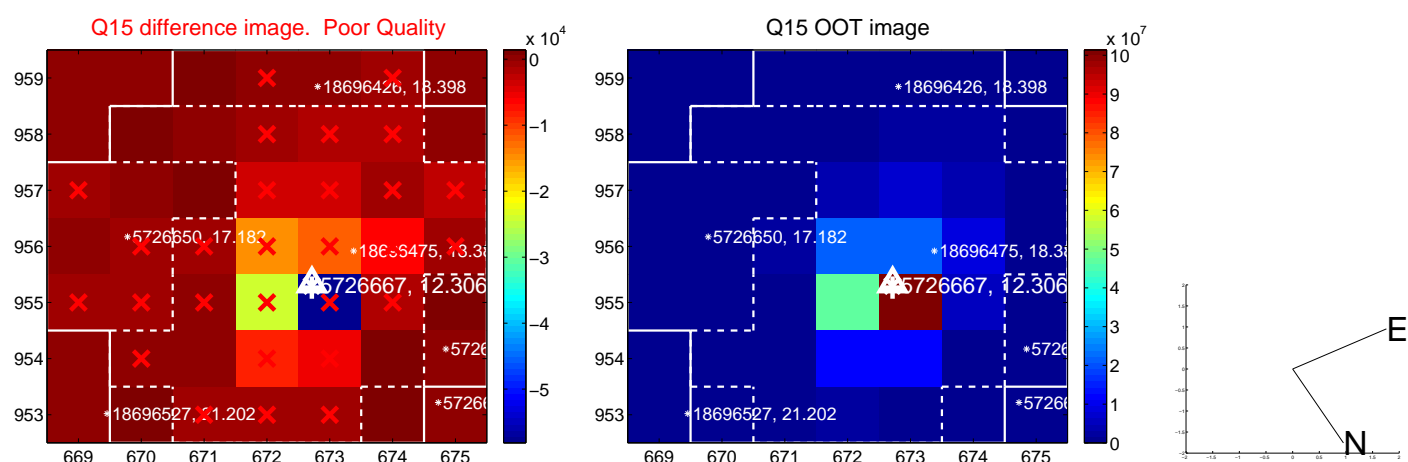
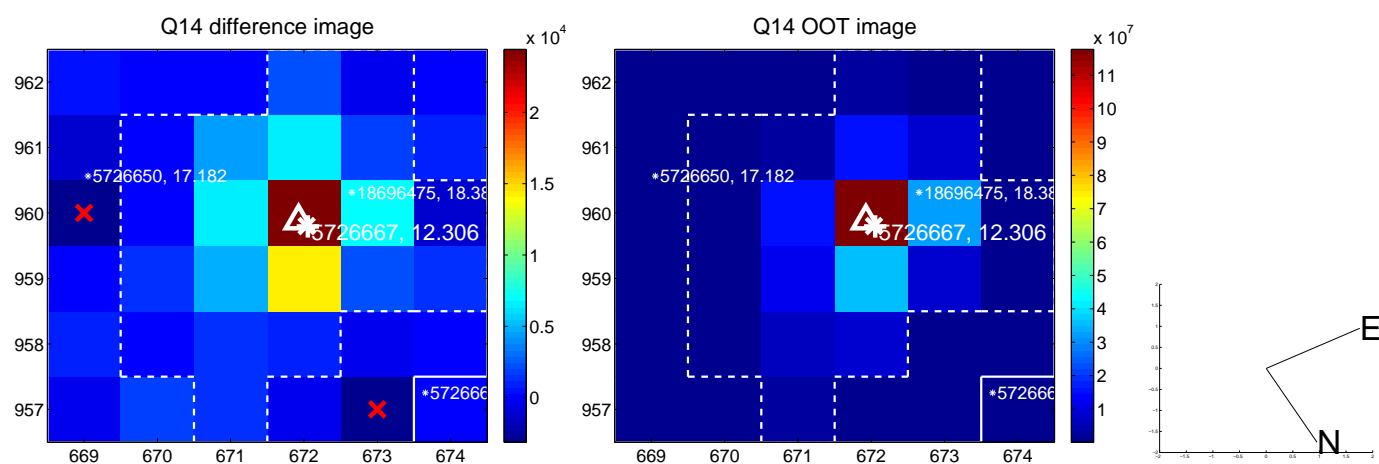
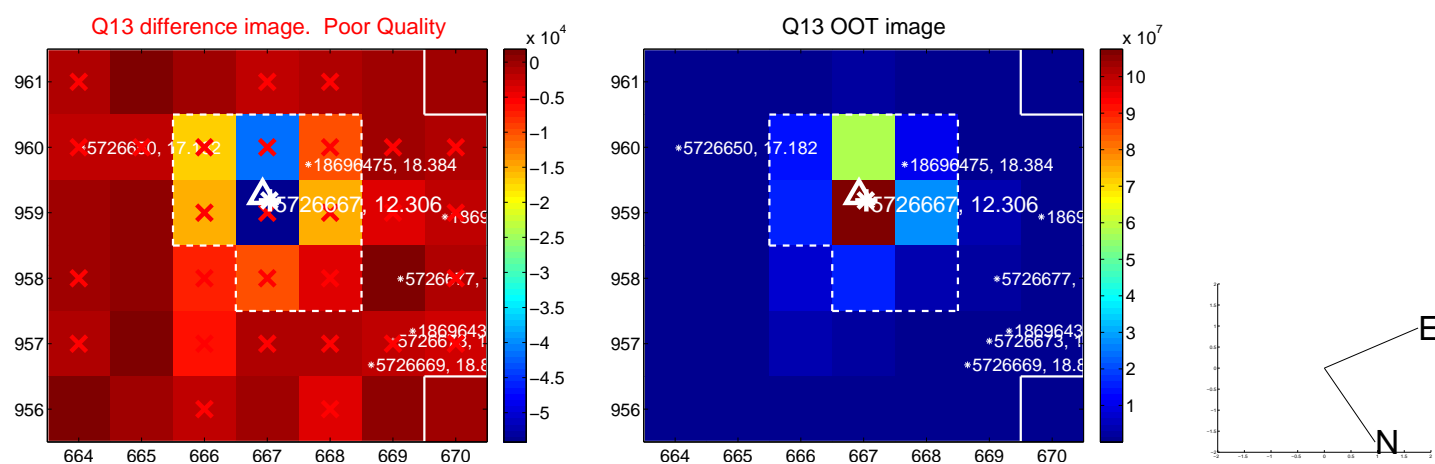
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

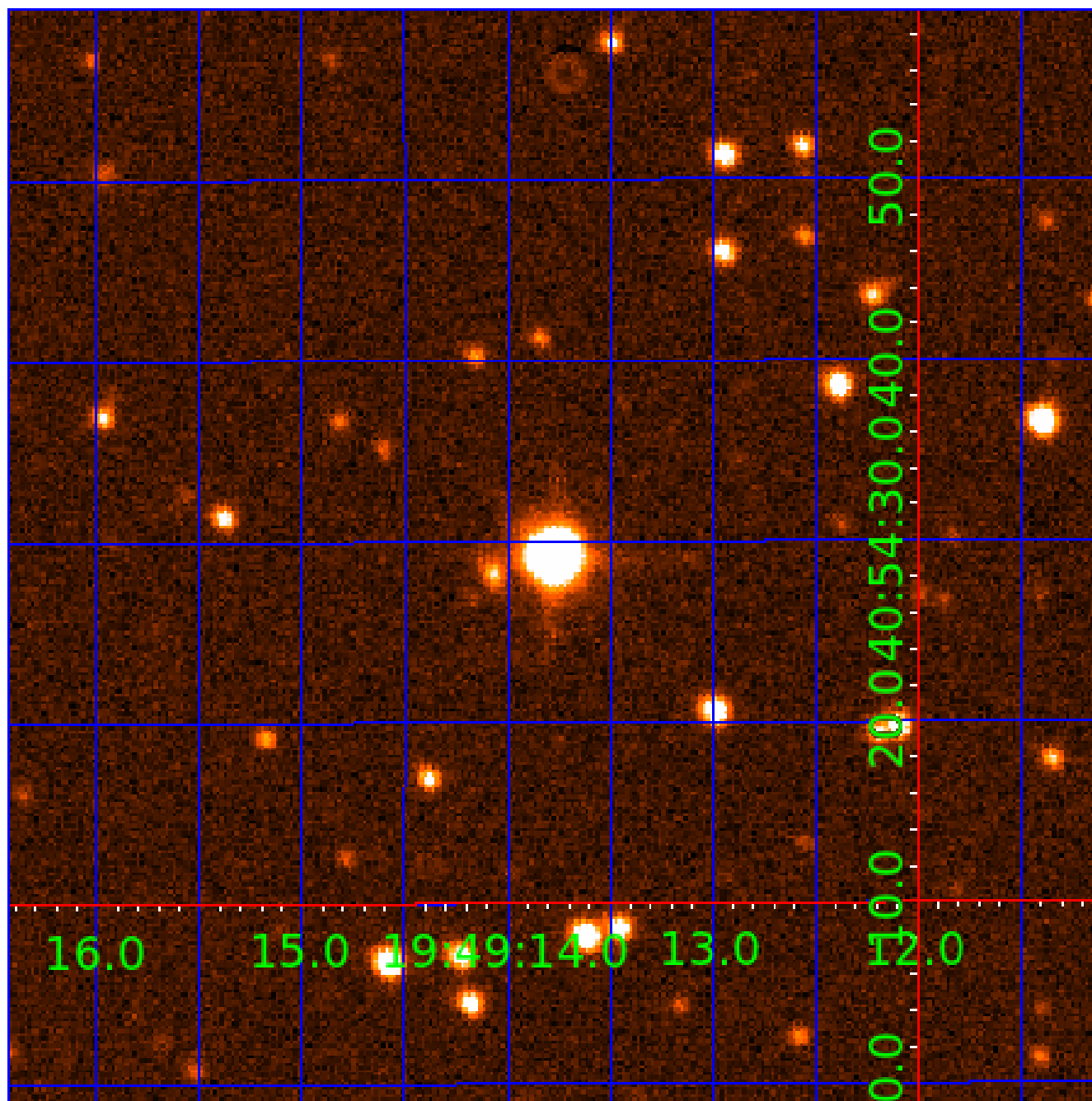


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005726667

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})
005726667-01	OBS	No	1.595109	132.466101	56.4	12.024	8.7	7.8	3.32	7968	2.67	34309.71
005726667-02	OBS	No	20.335517	142.813207	801.5	2.364	13.2	12.0	3.32	7968	9.70	1152.03
005726667-03	OBS	No	38.165021	133.558242	286.0	9.875	12.2	4.6	3.32	7968	5.94	497.64
005726667-04	OBS	No	28.184924	137.517493	1029.6	1.939	9.9	11.8	3.32	7968	14.51	745.50
005726667-05	OBS	No	22.940918	144.325403	783.9	1.444	12.2	11.4	3.32	7968	9.41	980.97

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005726667-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
005726667-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
005726667-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005726667-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005726667-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—HALO_GHOST

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

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

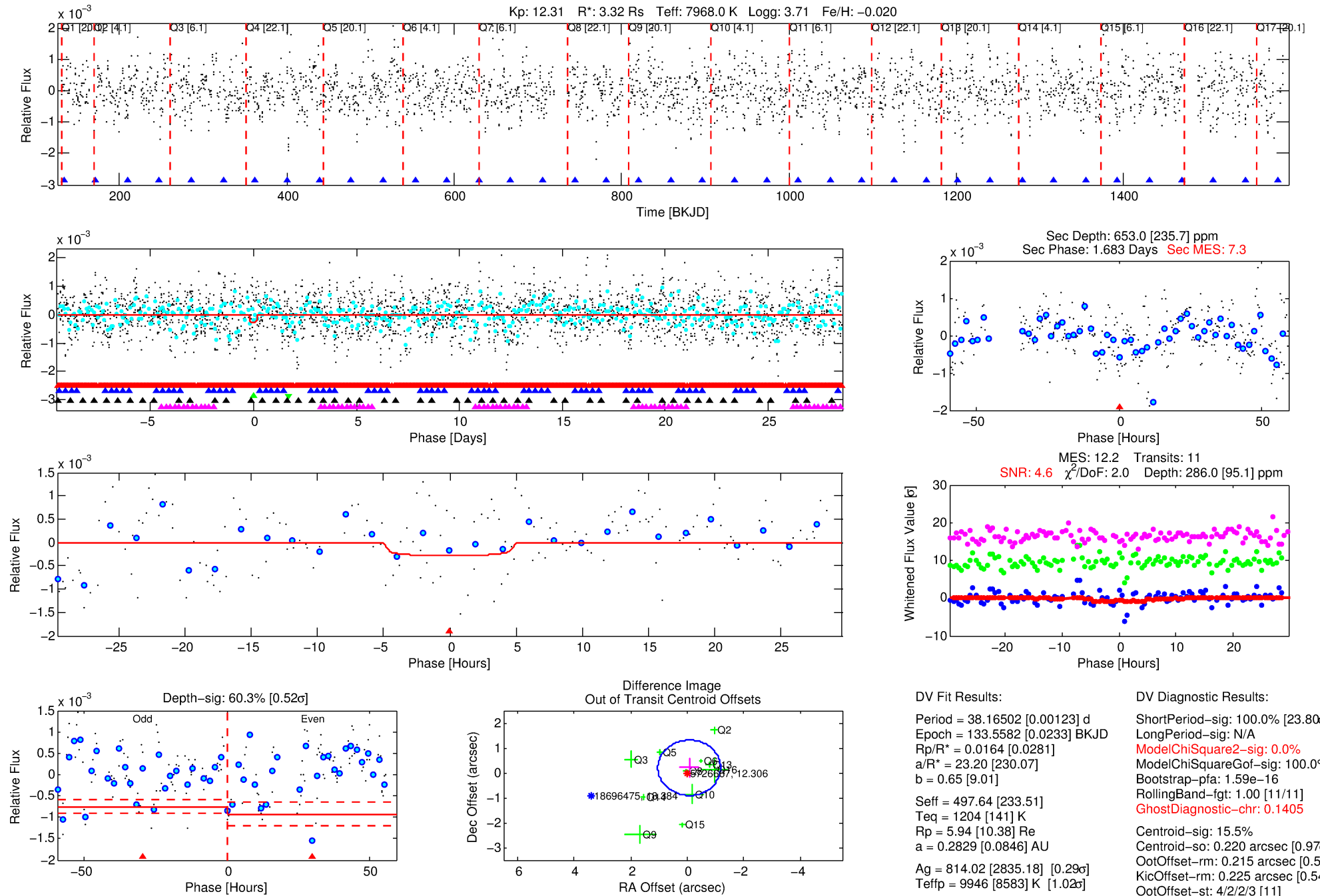
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005726667-03

No Significant Match Found

DV One-Page Summary

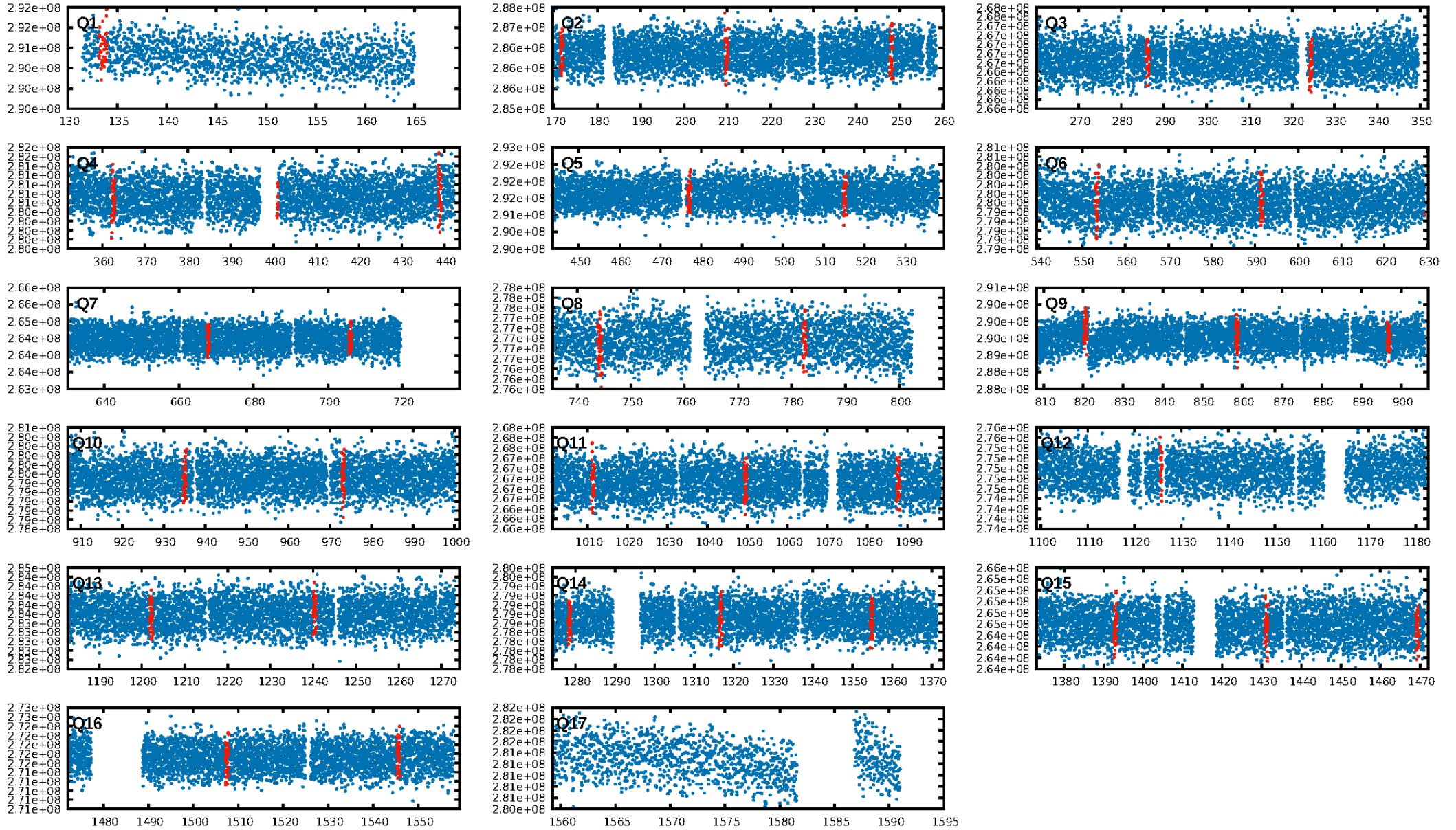
KIC: 5726667 Candidate: 3 of 5 Period: 38.165 d



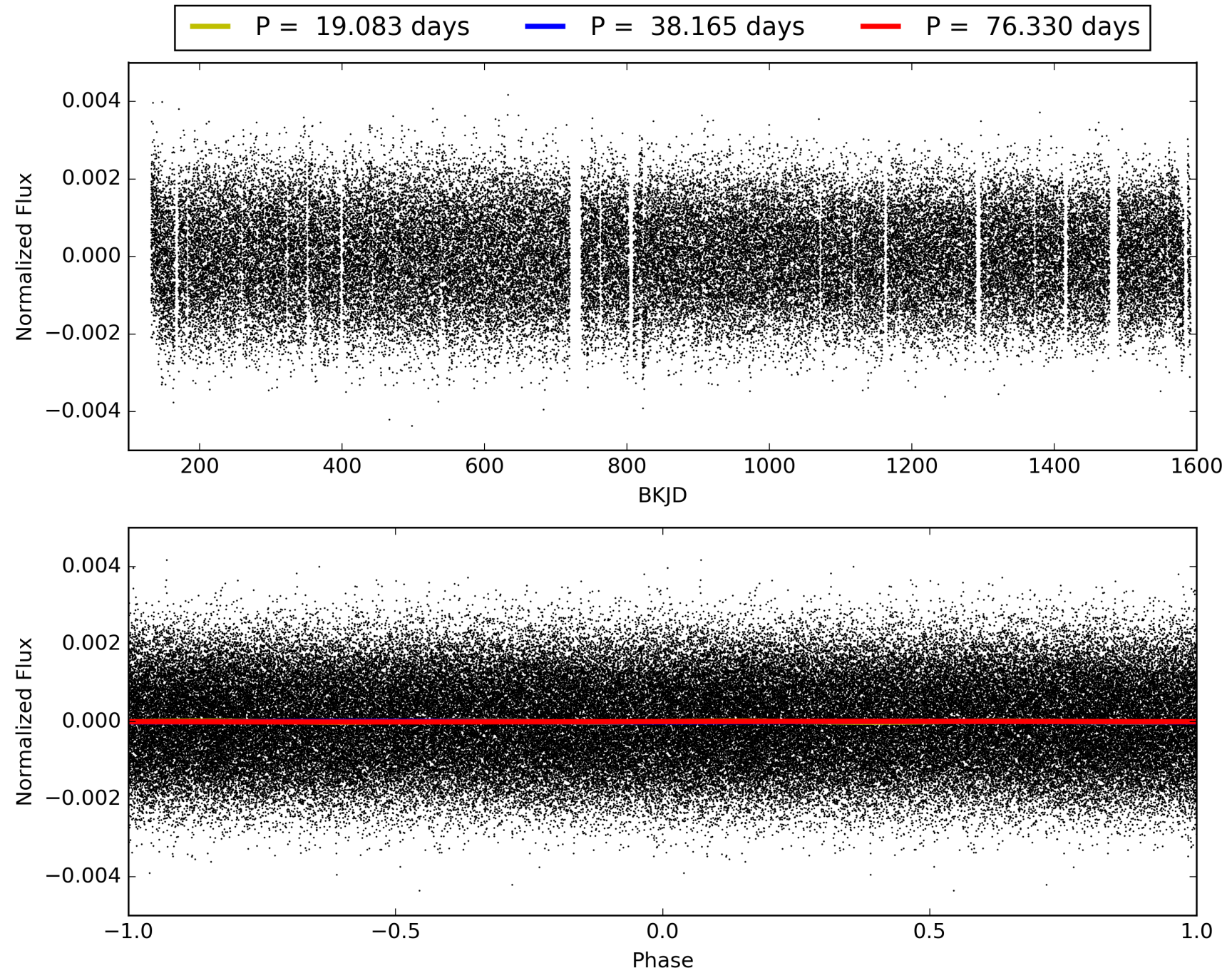
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 07:01:25 Z

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

TCE 005726667-03, PDC Light Curves

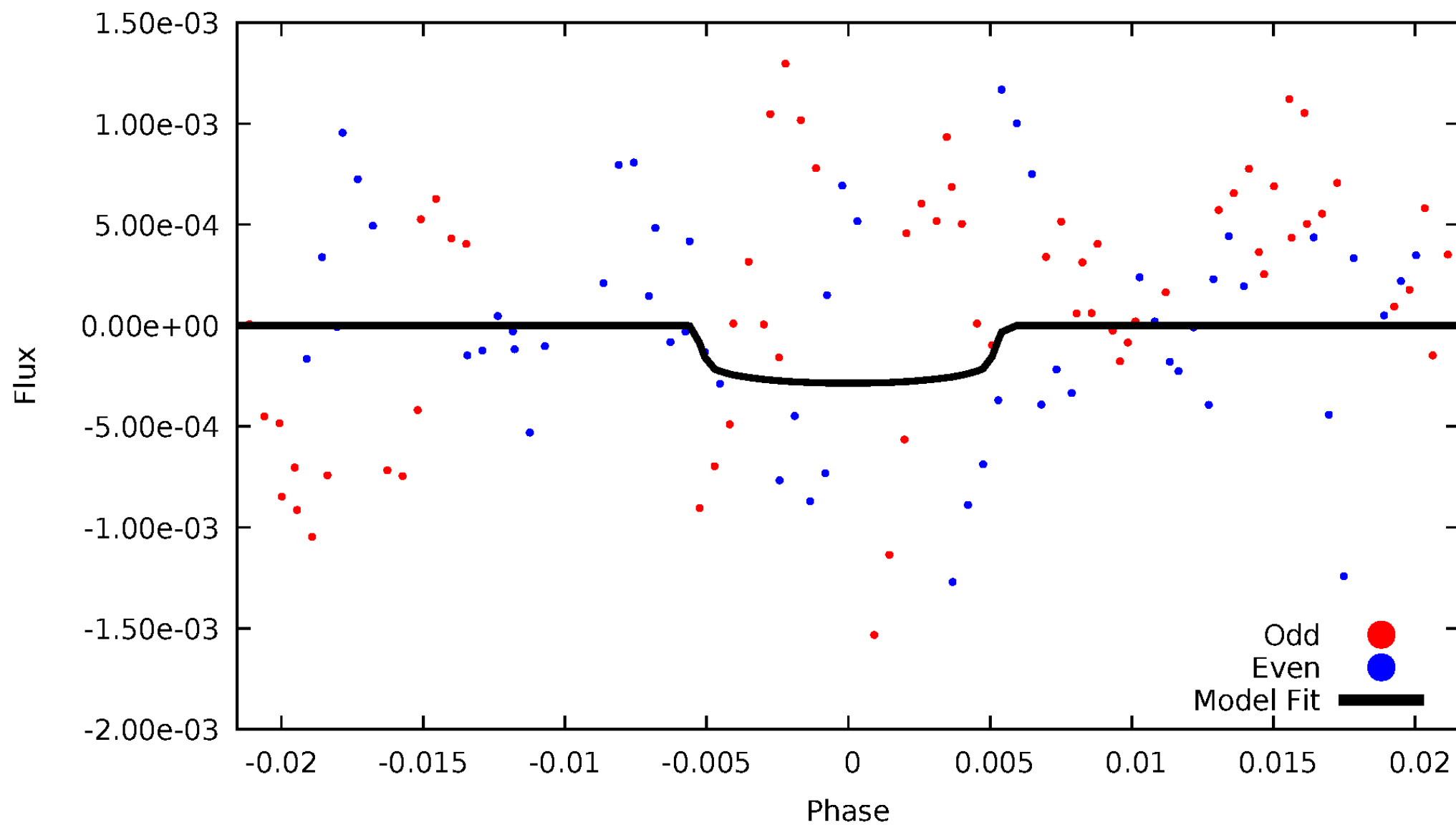


TCE 005726667-03



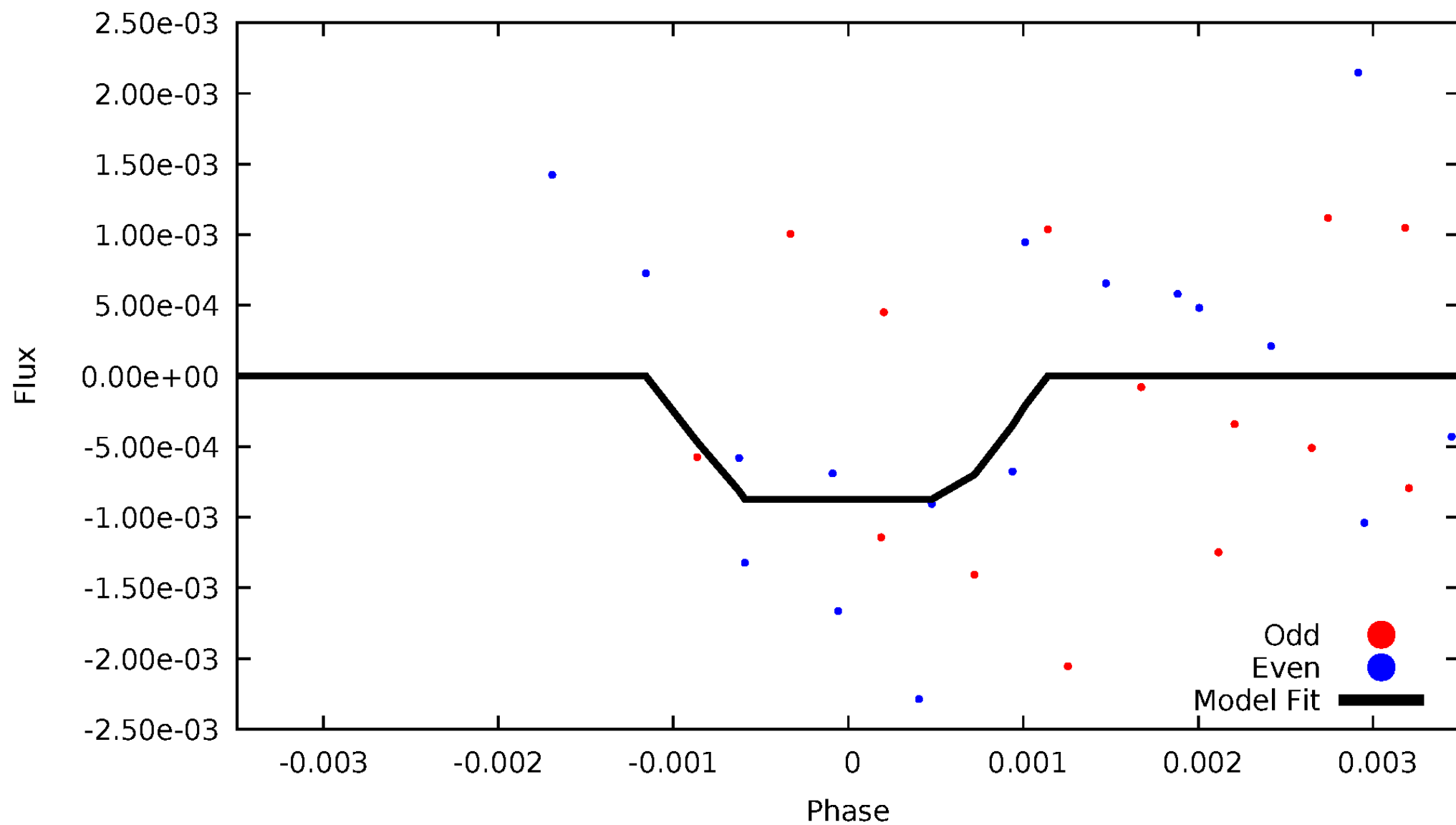
DV Odd/Even

TCE 005726667-03



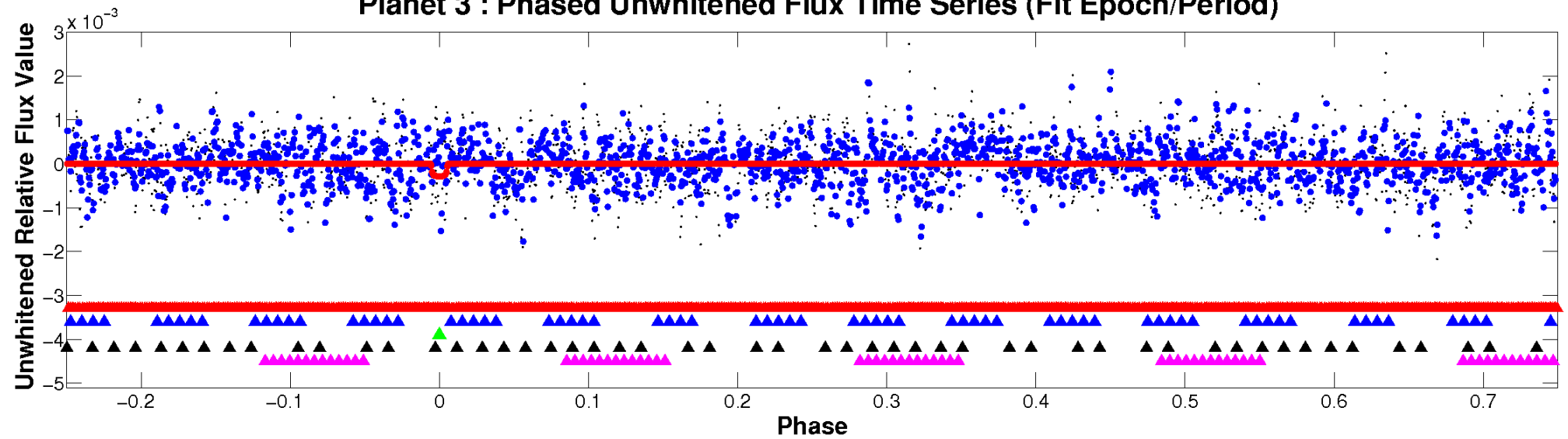
ALT Odd/Even

TCE 005726667-03

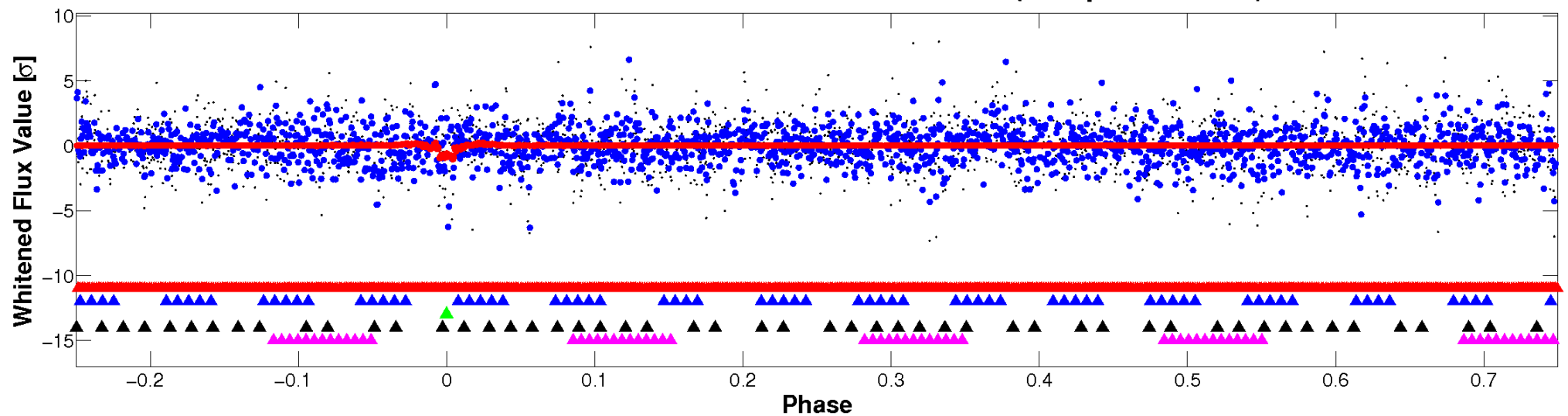


Non-Whitened Vs. Whitened Light Curve

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

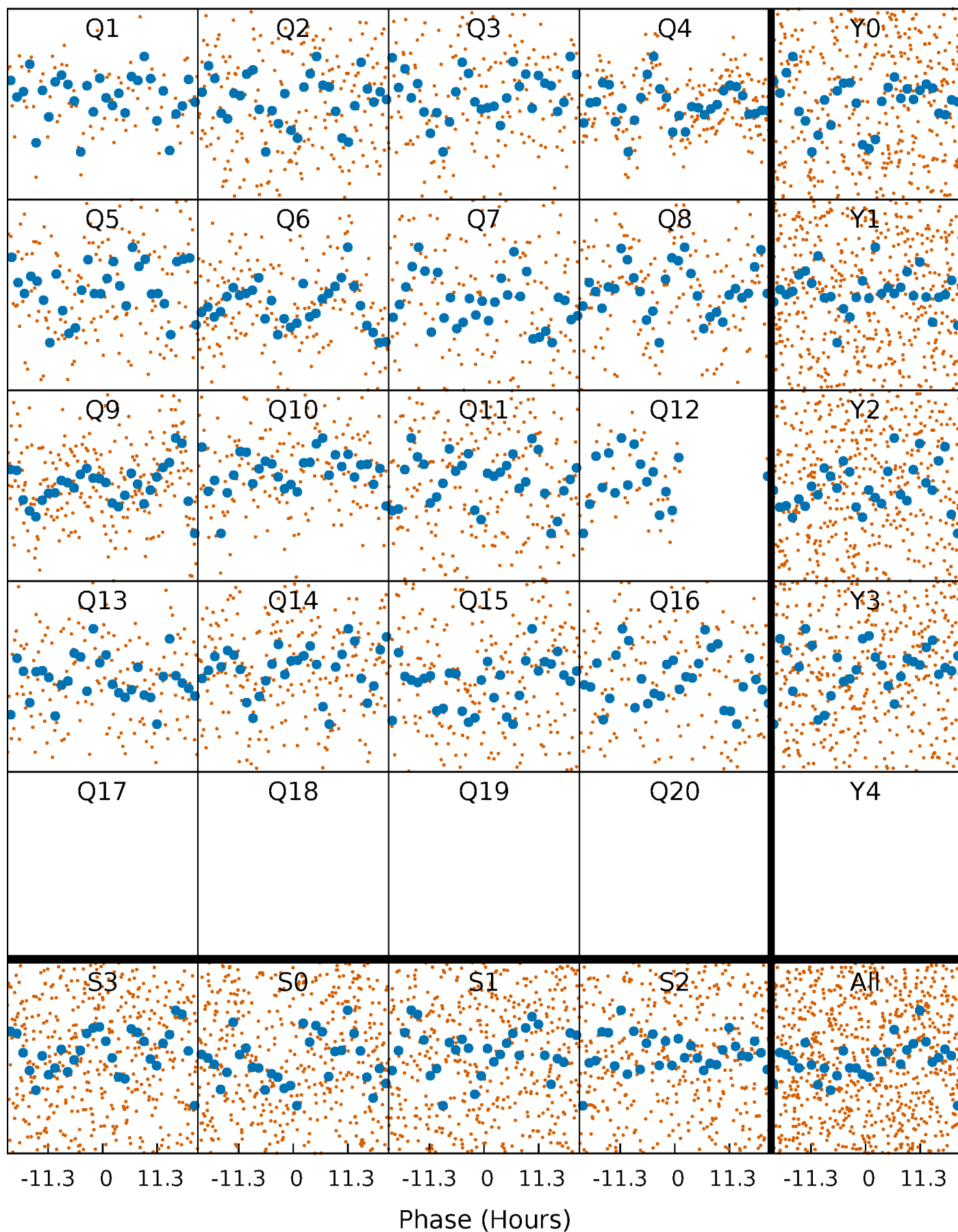


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



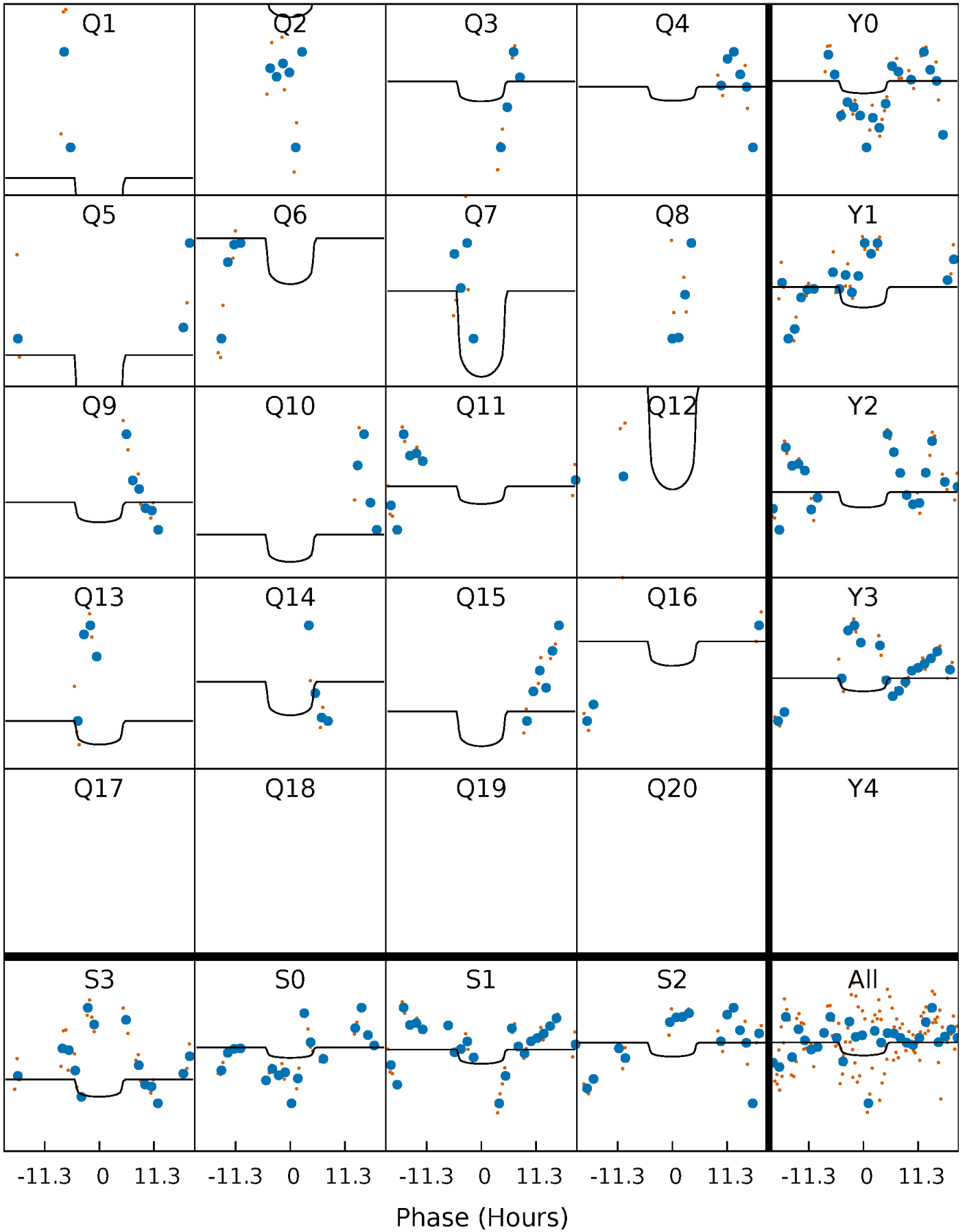
PDC Quarter-Phased Transit Curves

TCE 005726667-03 P= 38.165021 Days $T_0=133.558242$ (BKJD)



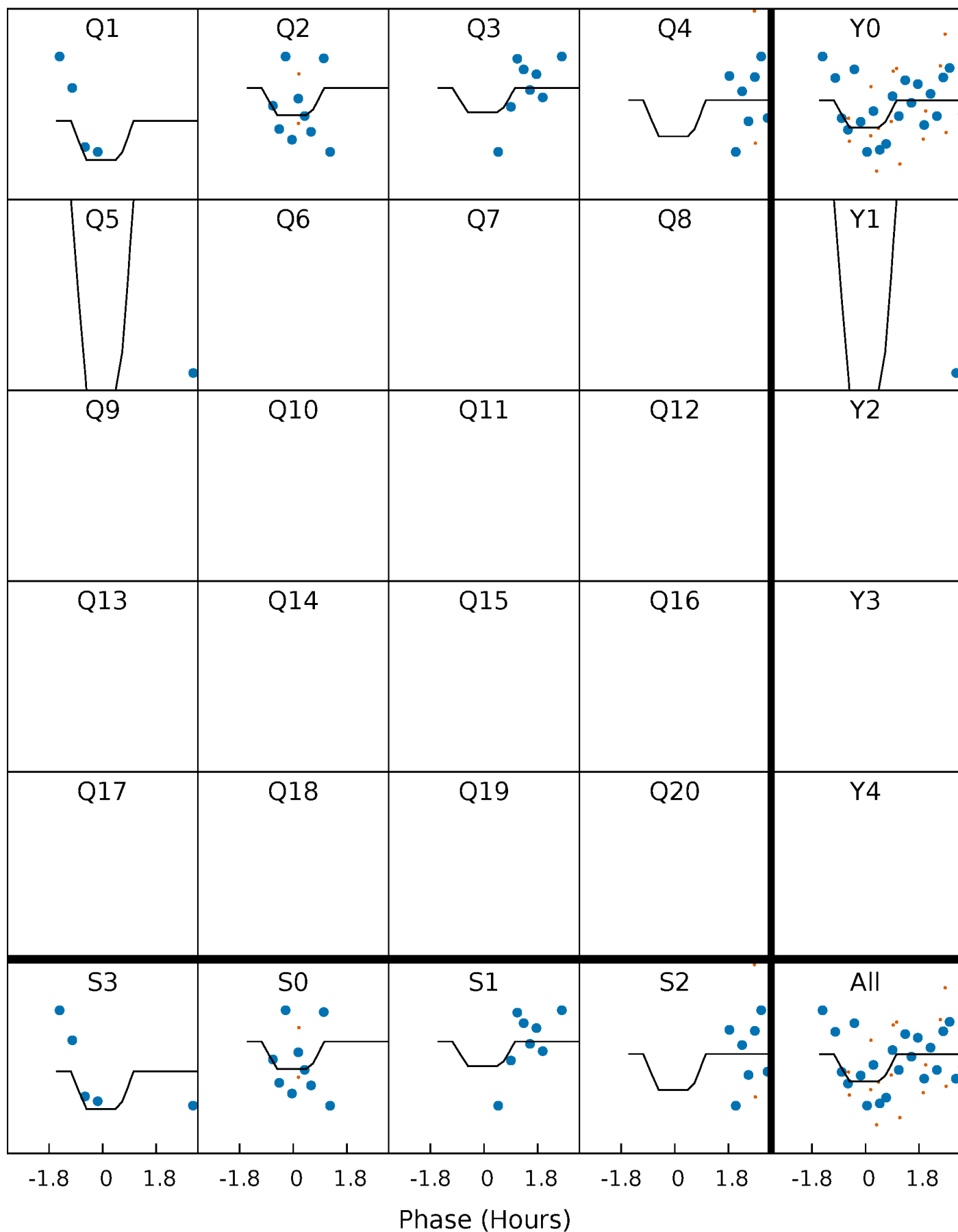
DV Quarter-Phased Transit Curves

TCE 005726667-03 $P = 38.165021$ Days $T_0 = 133.558242$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

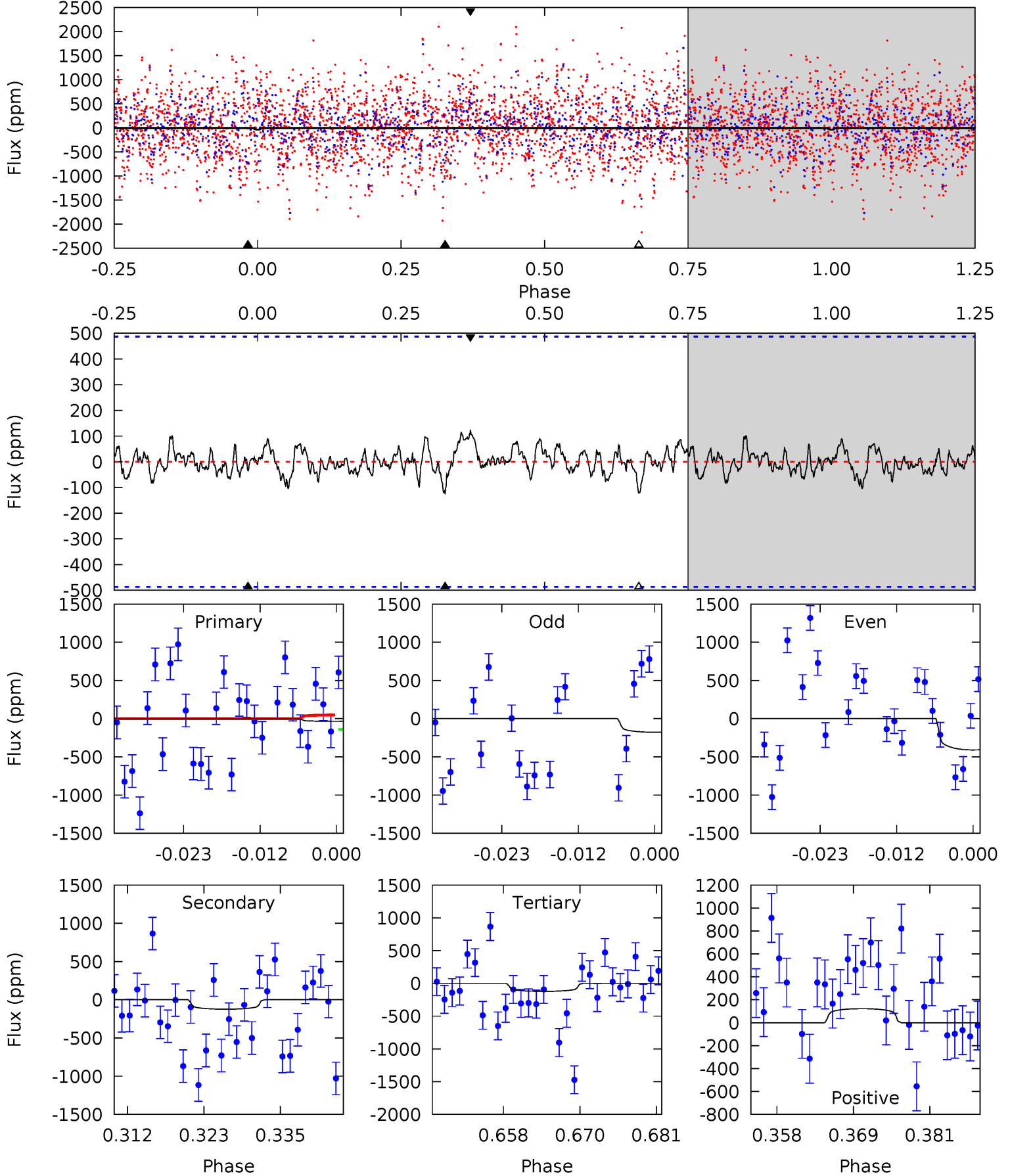
TCE 005726667-03 P= 38.262522 Days $T_0=133.293333$ (BKJD)



DV Model-Shift Uniqueness Test

005726667-03, P = 38.165021 Days, E = 95.393221 Days

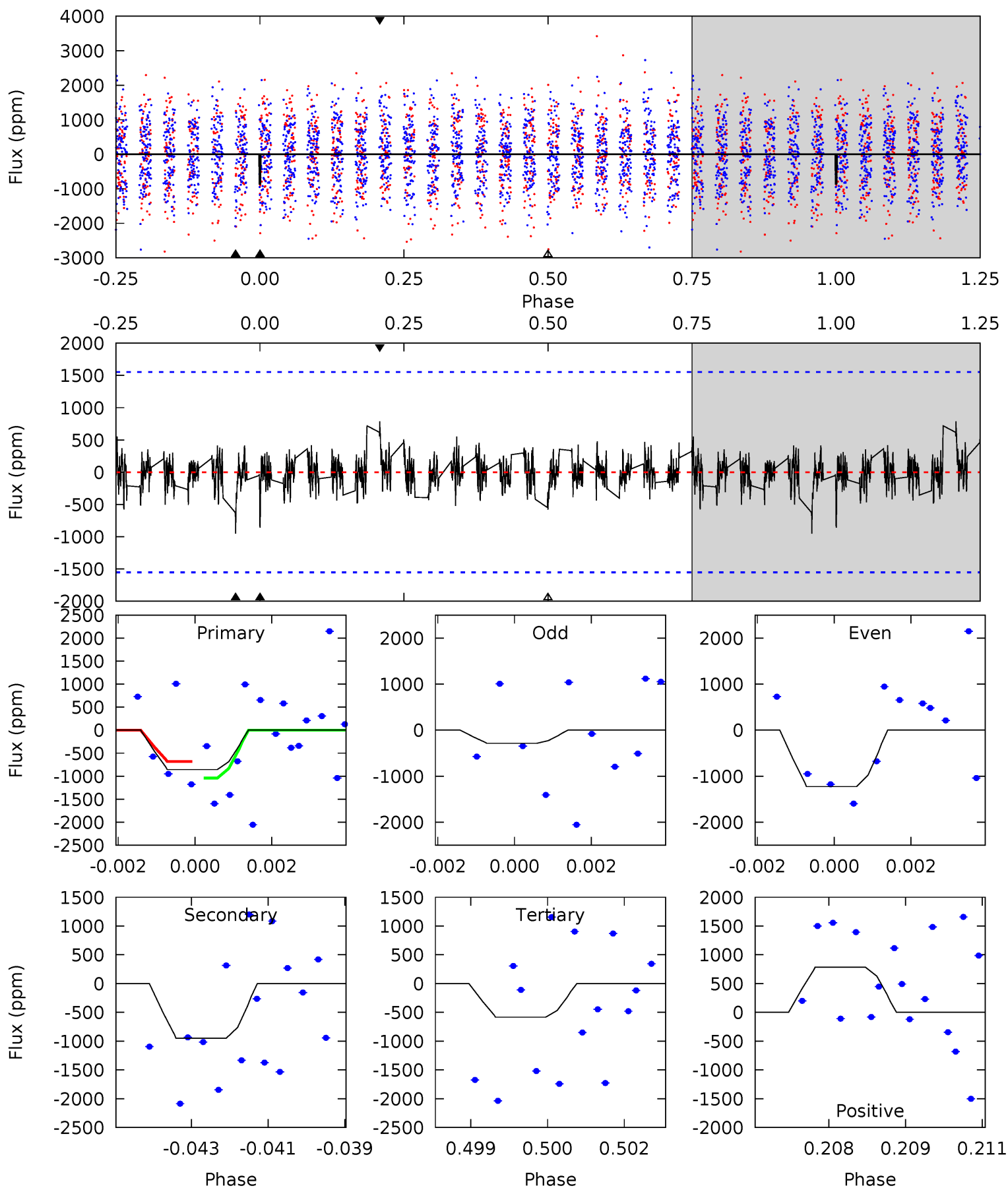
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.36	1.26	1.24	1.25	5.00	2.53	0.43	-0.89	-0.90	0.02	0.01	1.17	1.10	0.50	0.47



Alt Model-Shift Uniqueness Test

005726667-03, P = 38.262522 Days, E = 95.030811 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.96	3.28	2.02	2.72	5.36	3.15	0.65	0.94	0.24	1.27	0.57	1.59	0.82	0.45	0.61



Stellar Parameters For KIC 005726667

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7968^{+63}_{-87}	$3.712^{+0.270}_{-0.072}$	$-0.020^{+0.200}_{-0.200}$	$3.321^{+0.579}_{-1.074}$	$2.075^{+0.237}_{-0.237}$	$0.080^{+0.142}_{-0.023}$
	+1%/-1%	+7%/-2%	+1000%/-1000%	+17%/-32%	+11%/-11%	+178%/-29%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005726667-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-123 ± 97	$8.81^{+8.46}_{-5.91}$	1648^{+77}_{-122}	4835^{+4174}_{-1528}	52^{+517}_{-46}
Alt.	-951 ± 290	$10.77^{+9.77}_{-6.50}$	1647^{+78}_{-141}	7599^{+7997}_{-2091}	350^{+2049}_{-255}

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 $A_{obs} \gg 1.0$

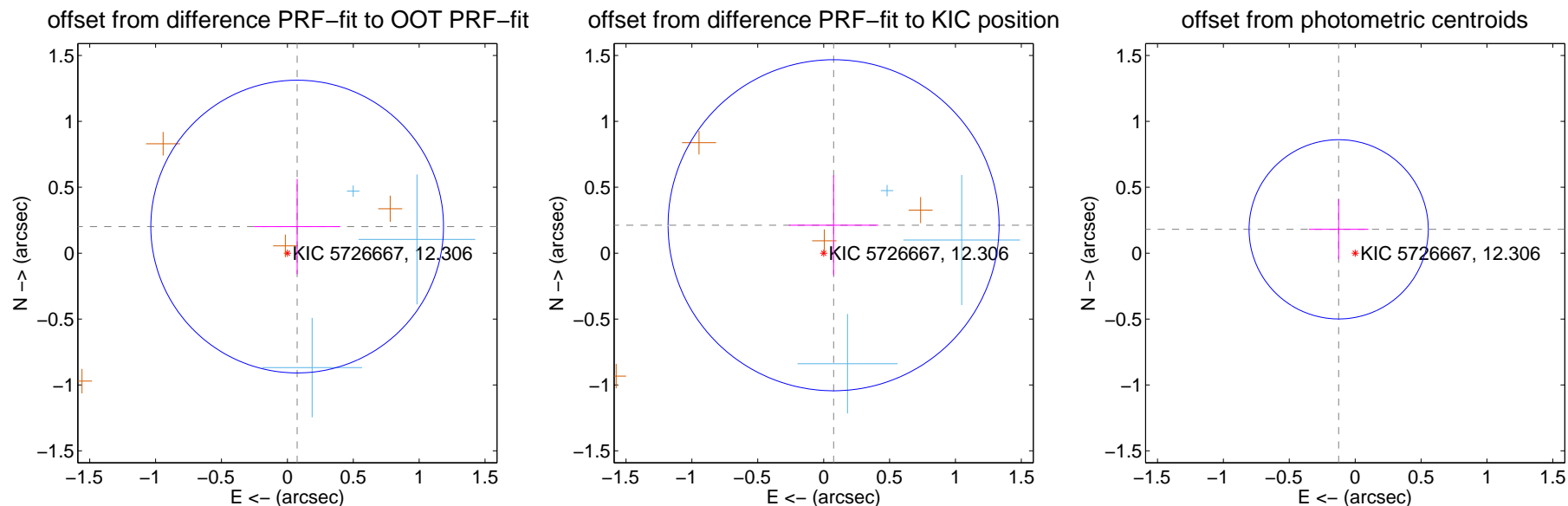
DV Centroid Data

Supplemental centroid analysis for 005726667-03. Kepler magnitude: 12.31. Transit SNR 4.63

There are 6 quarters with good PRF difference image offsets

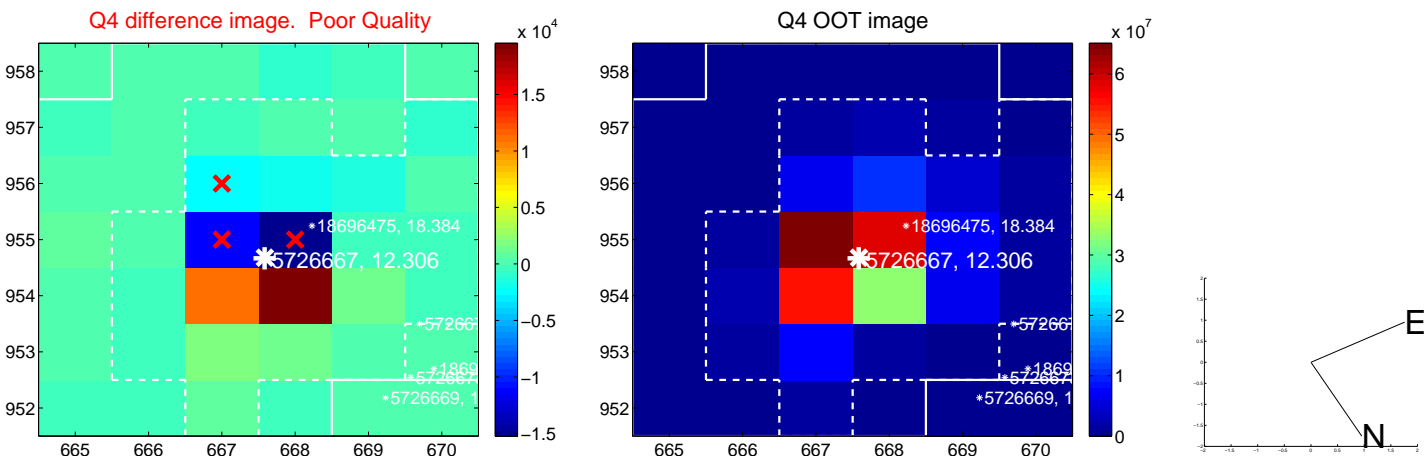
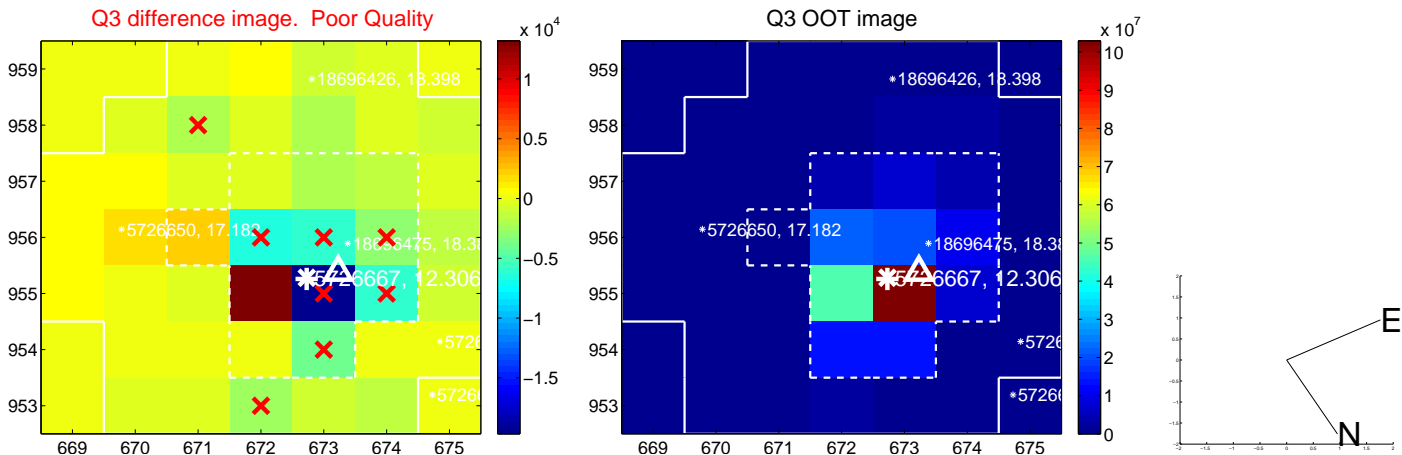
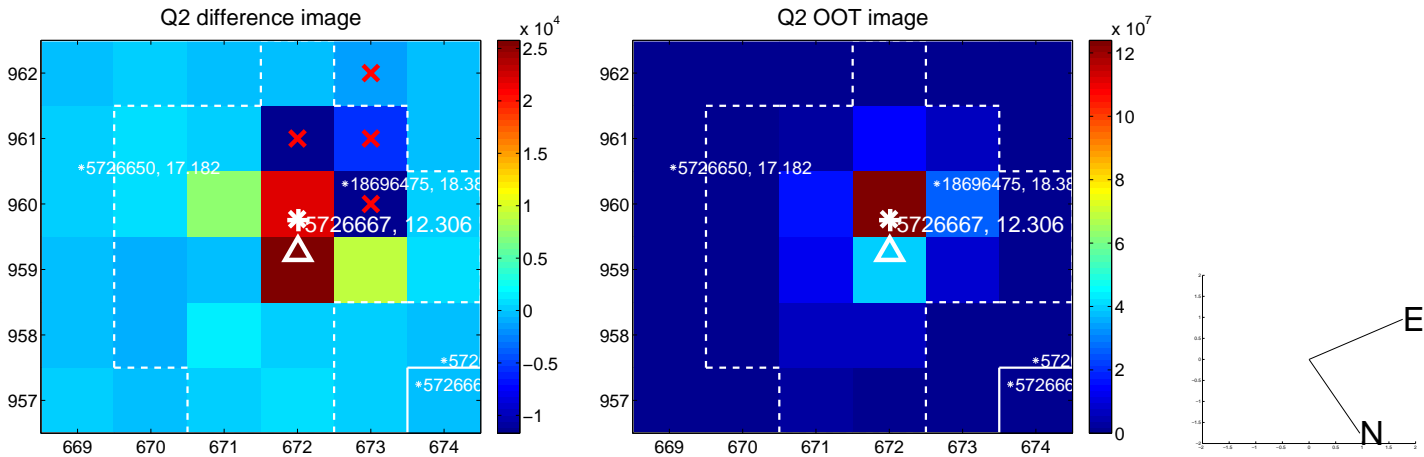
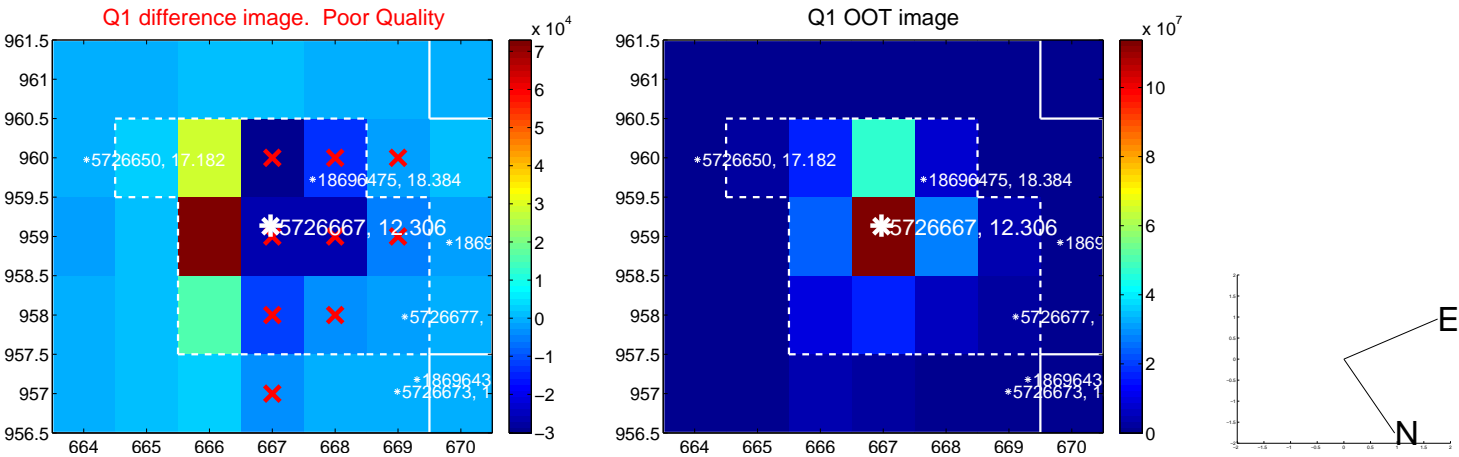
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.215 ± 0.370	0.58	-0.074 ± 0.326	0.202 ± 0.361
PRF-fit source offset from KIC position	0.225 ± 0.419	0.54	-0.075 ± 0.339	0.212 ± 0.379
photometric centroid source offset	0.22 ± 0.23	0.97	0.13 ± 0.23	0.18 ± 0.23

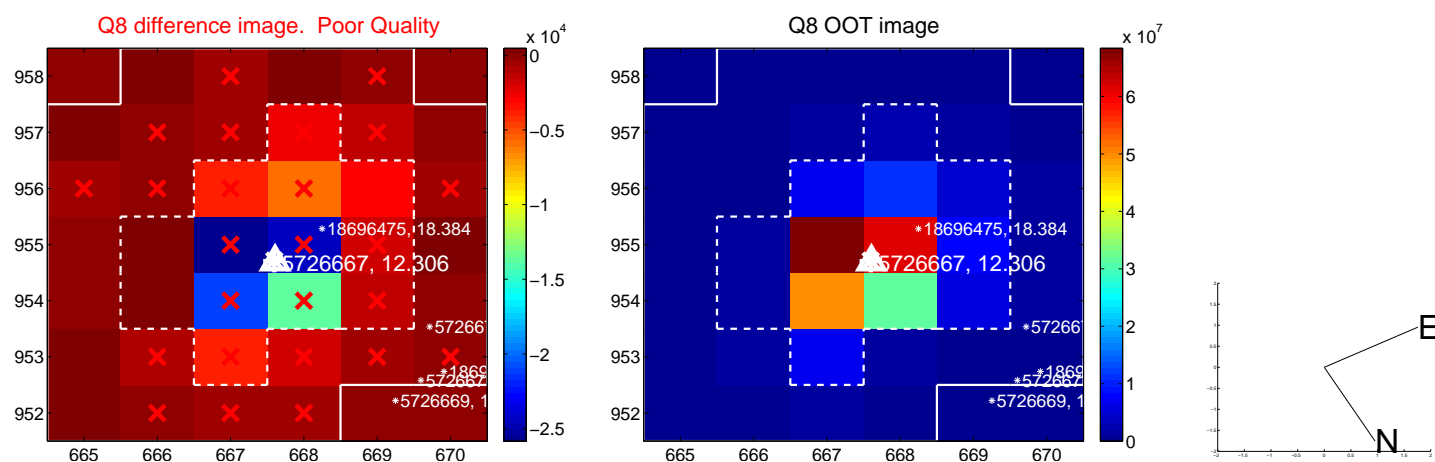
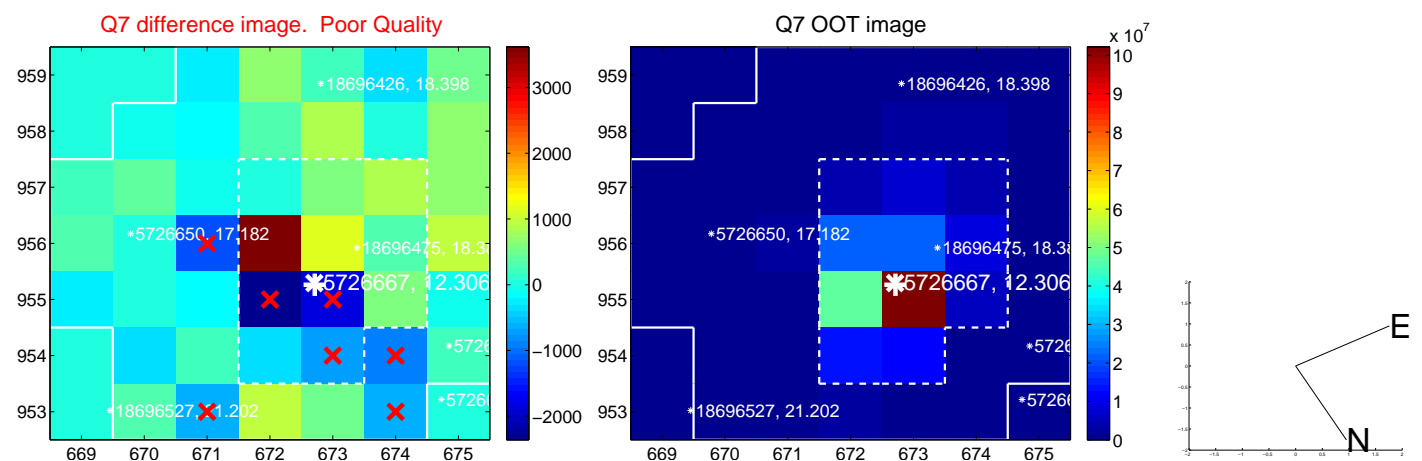
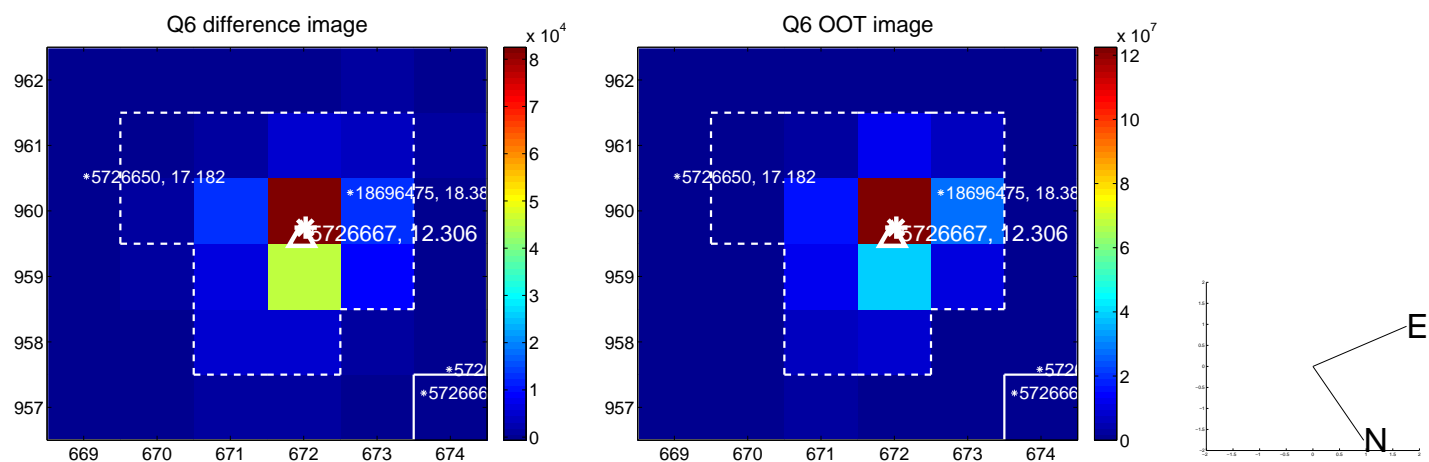
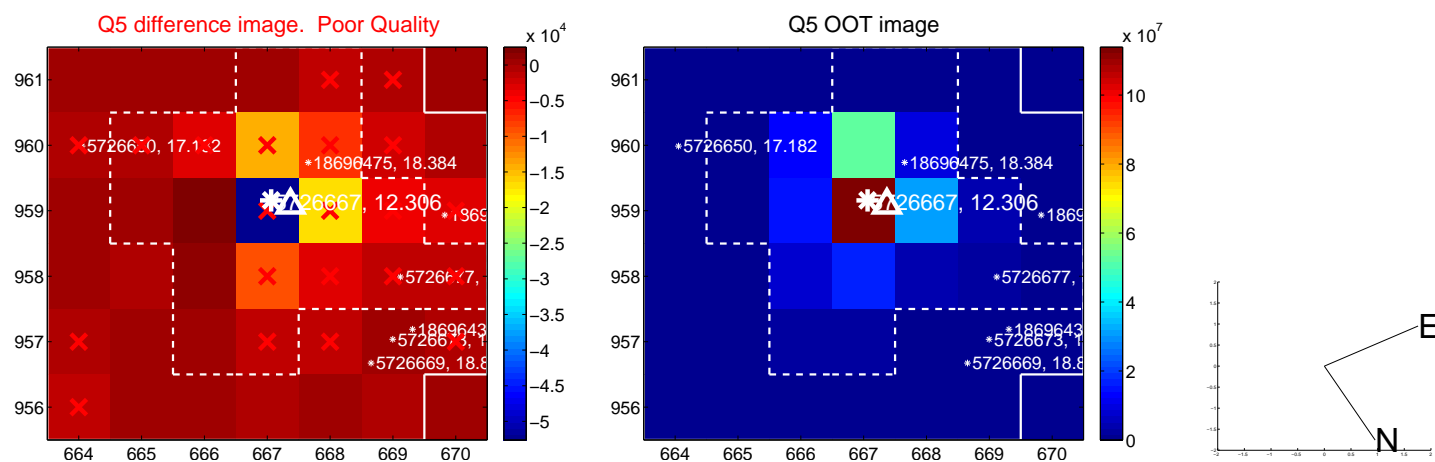


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

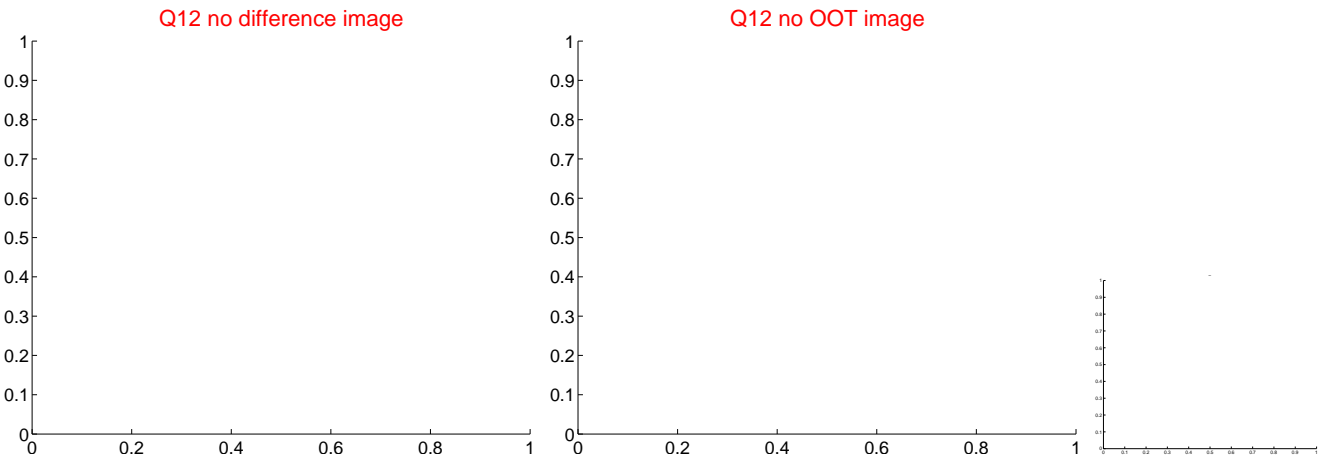
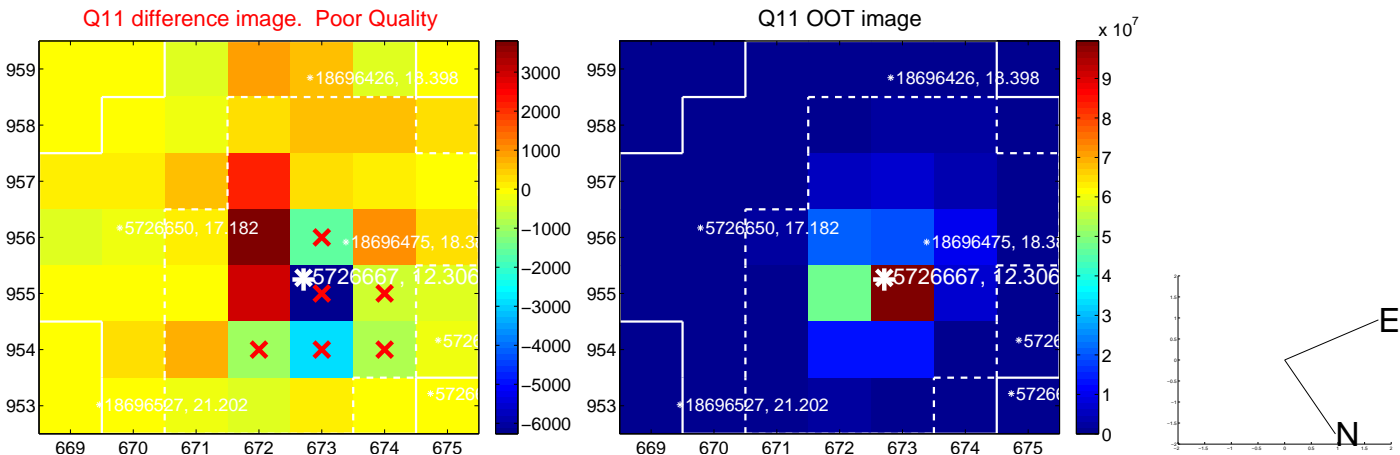
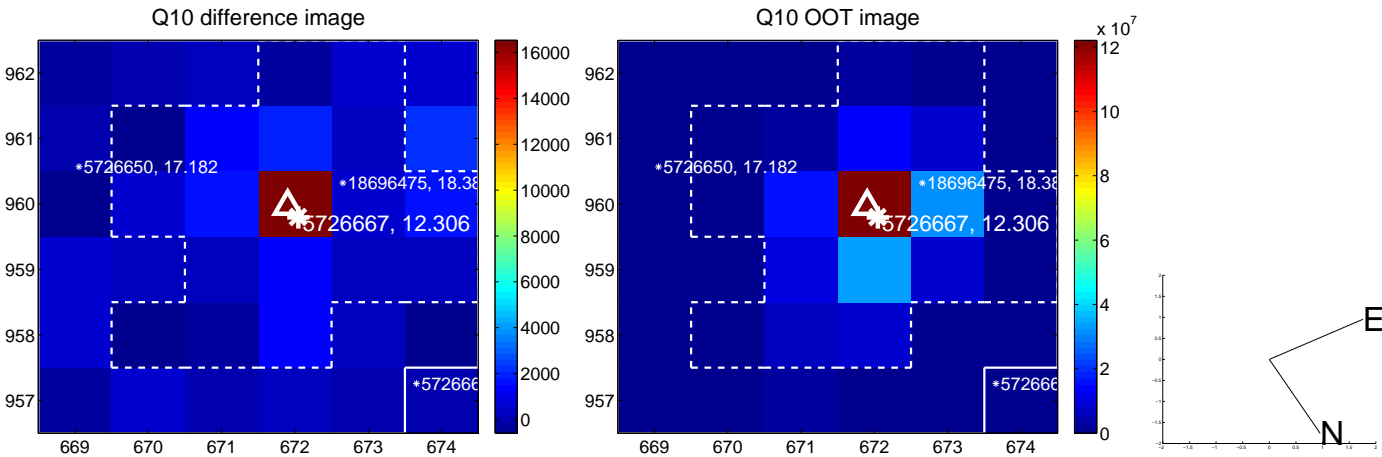
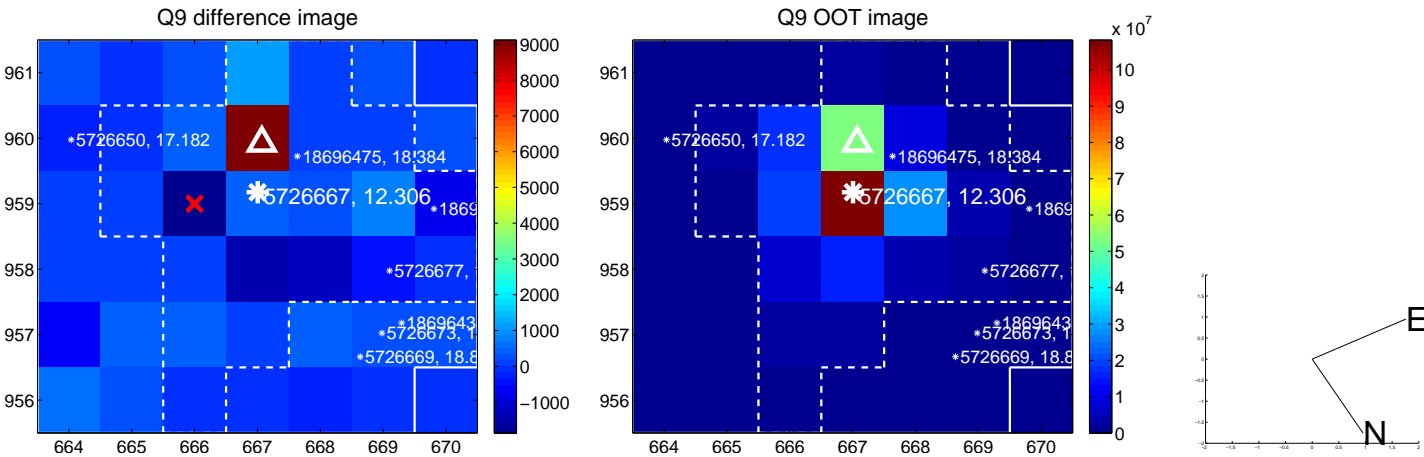
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



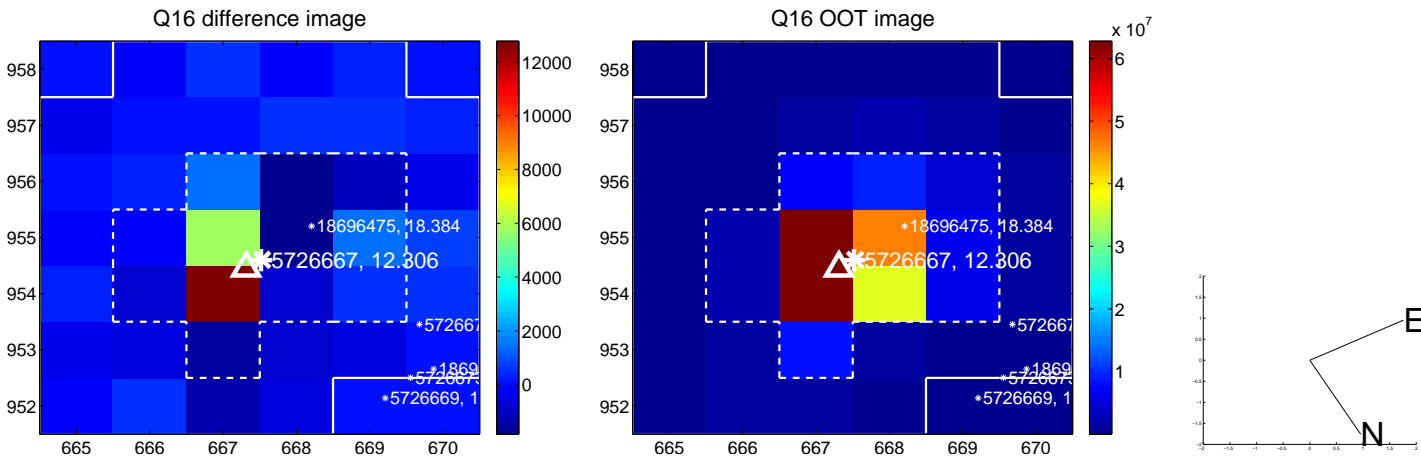
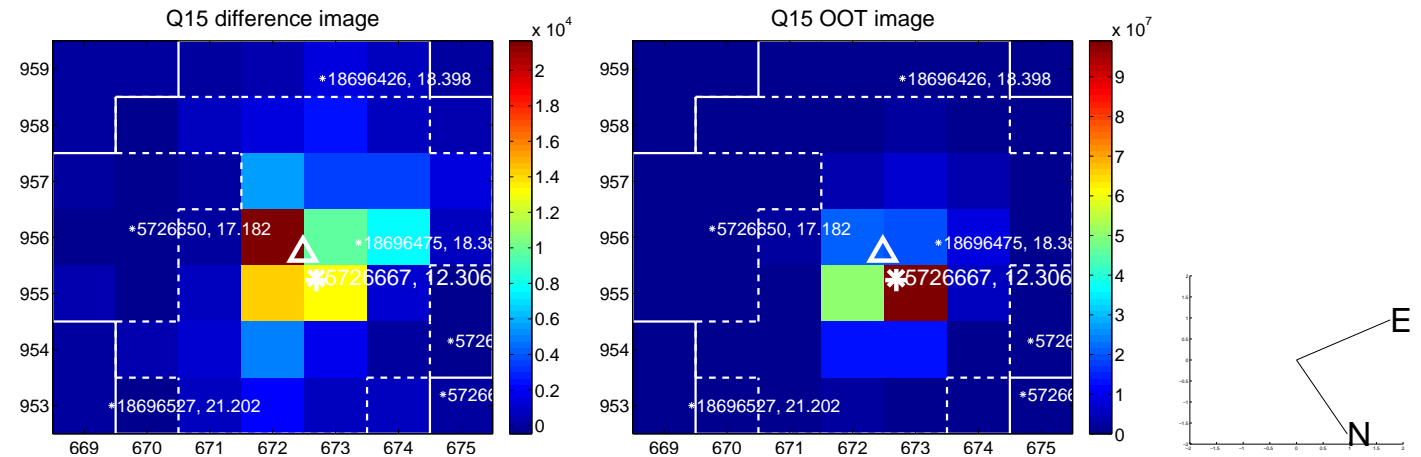
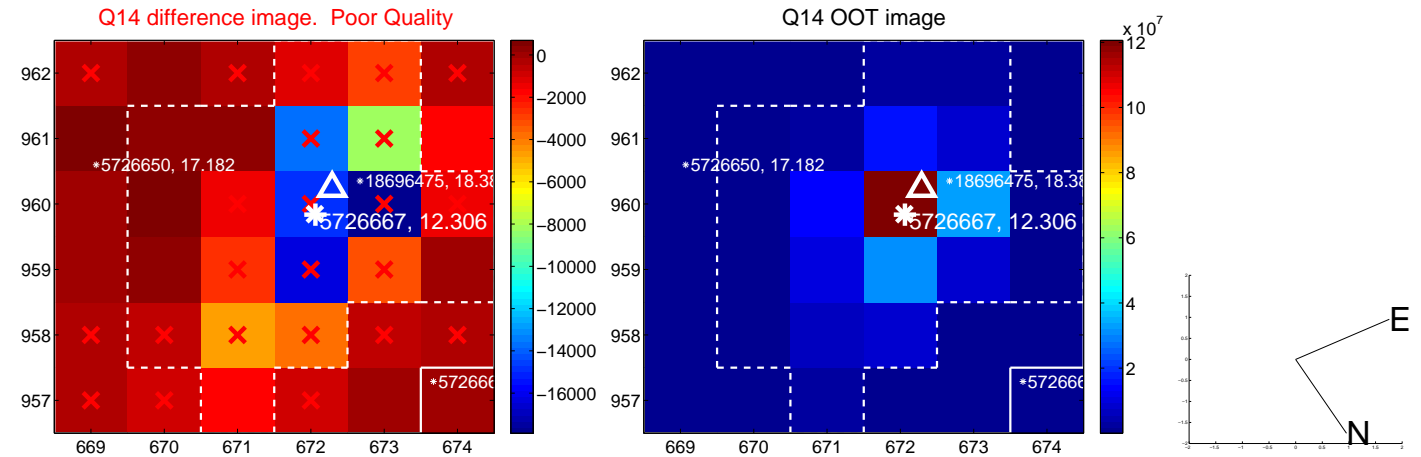
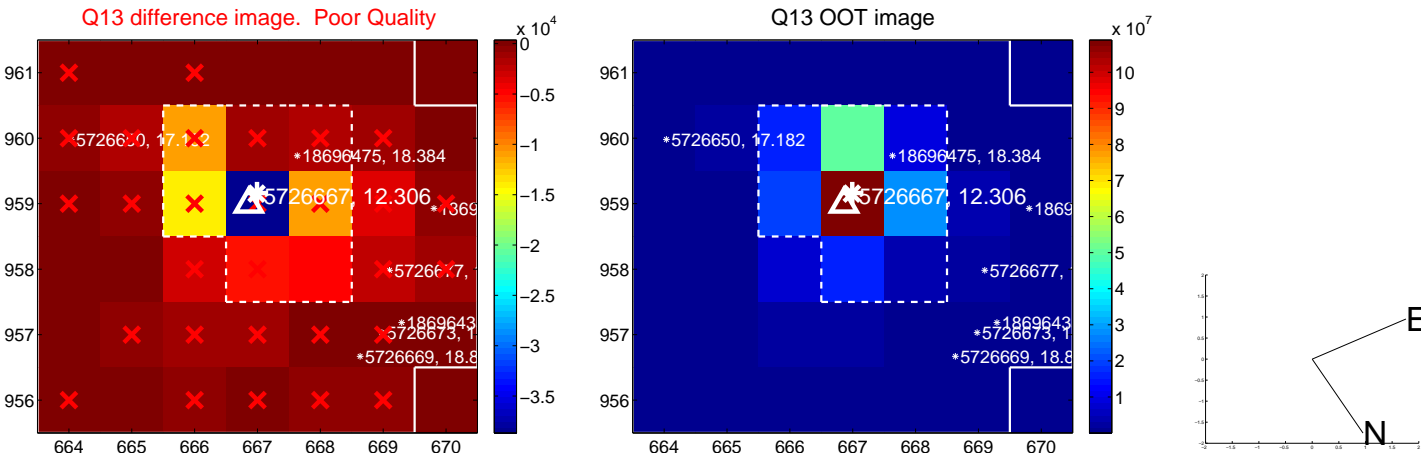
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



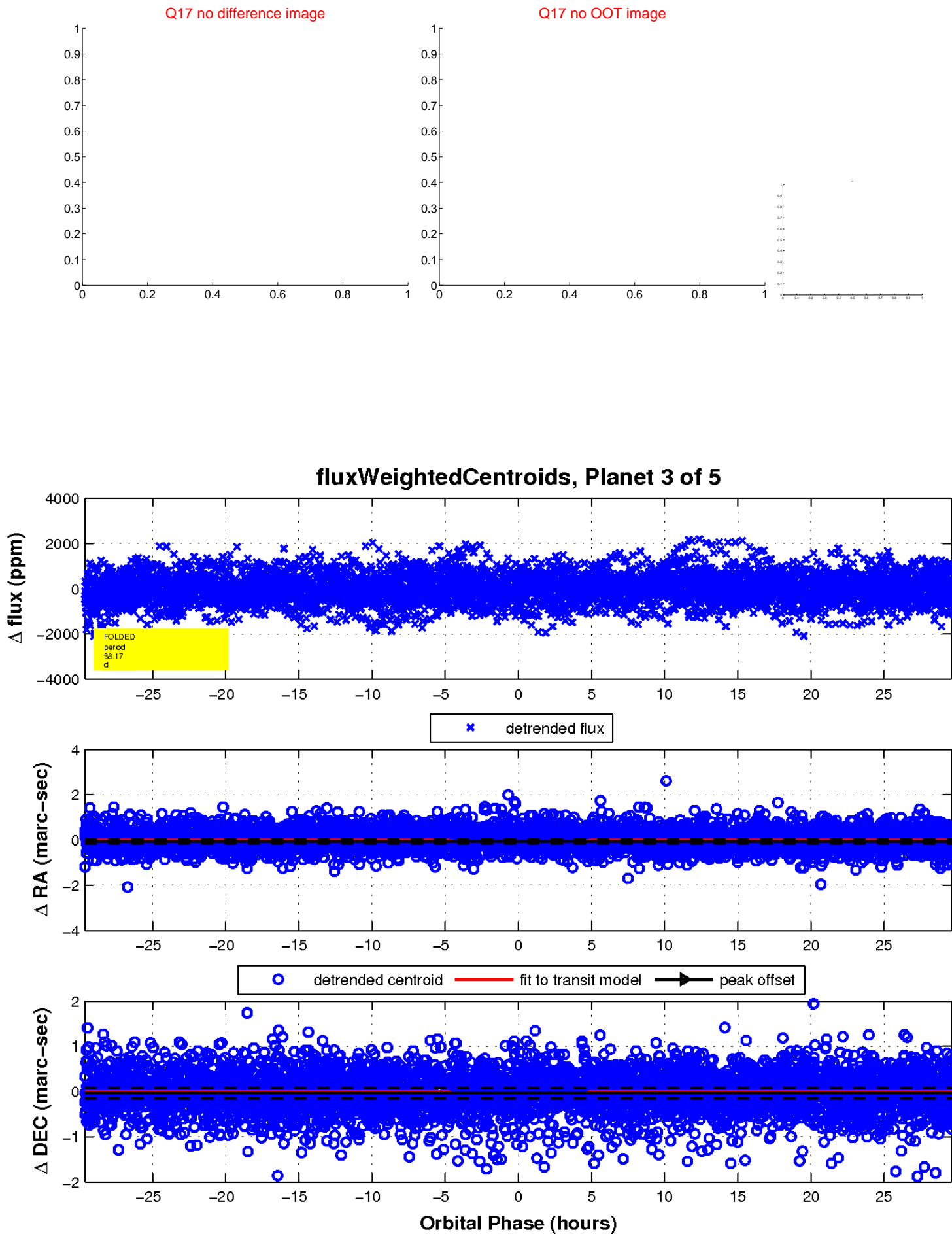
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

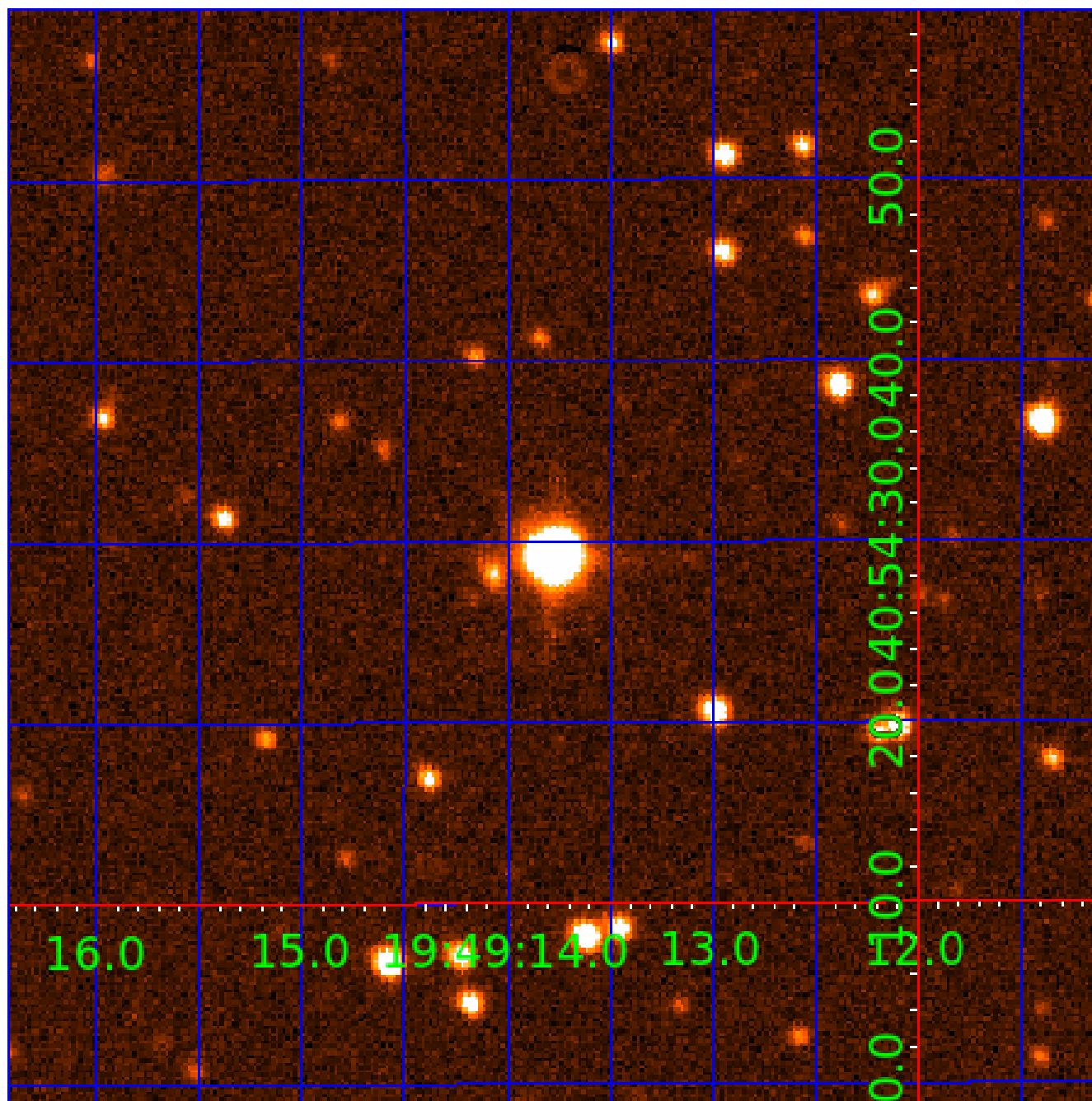


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005726667

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})
005726667-01	OBS	No	1.595109	132.466101	56.4	12.024	8.7	7.8	3.32	7968	2.67	34309.71
005726667-02	OBS	No	20.335517	142.813207	801.5	2.364	13.2	12.0	3.32	7968	9.70	1152.03
005726667-03	OBS	No	38.165021	133.558242	286.0	9.875	12.2	4.6	3.32	7968	5.94	497.64
005726667-04	OBS	No	28.184924	137.517493	1029.6	1.939	9.9	11.8	3.32	7968	14.51	745.50
005726667-05	OBS	No	22.940918	144.325403	783.9	1.444	12.2	11.4	3.32	7968	9.41	980.97

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005726667-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
005726667-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
005726667-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005726667-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005726667-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—HALO_GHOST

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

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

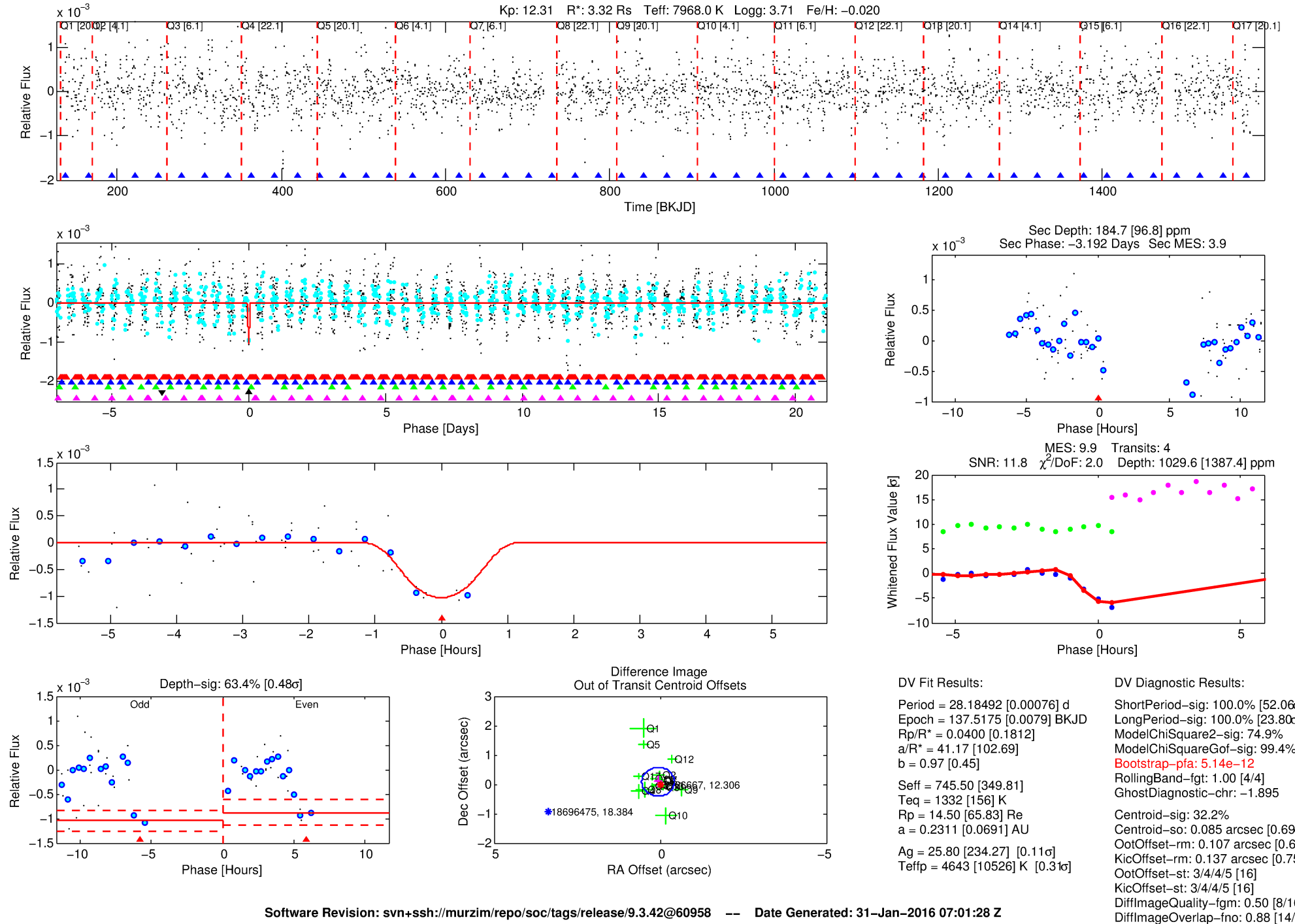
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005726667-04

No Significant Match Found

DV One-Page Summary

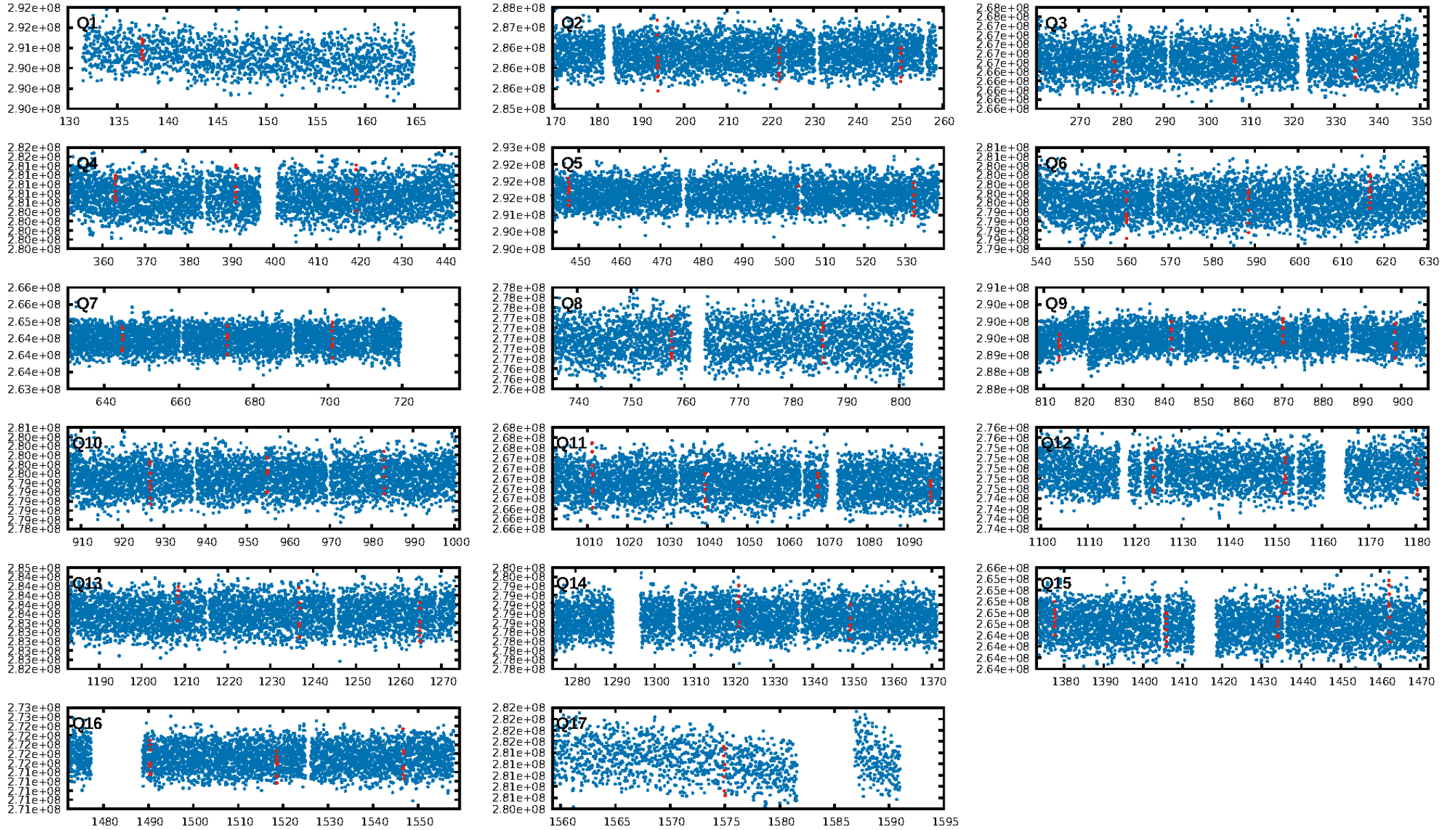
KIC: 5726667 Candidate: 4 of 5 Period: 28.185 d



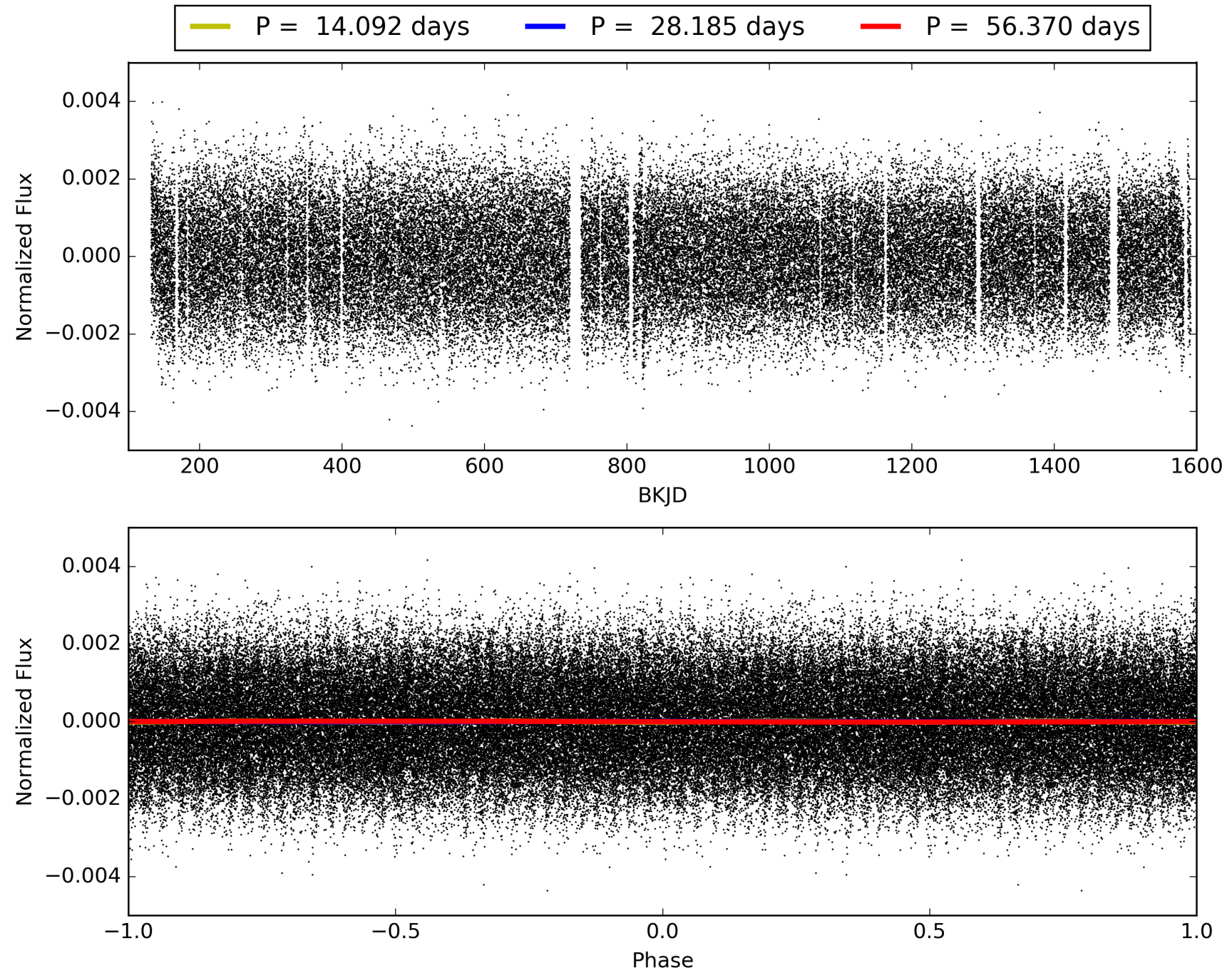
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 07:01:28 Z

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

TCE 005726667-04, PDC Light Curves

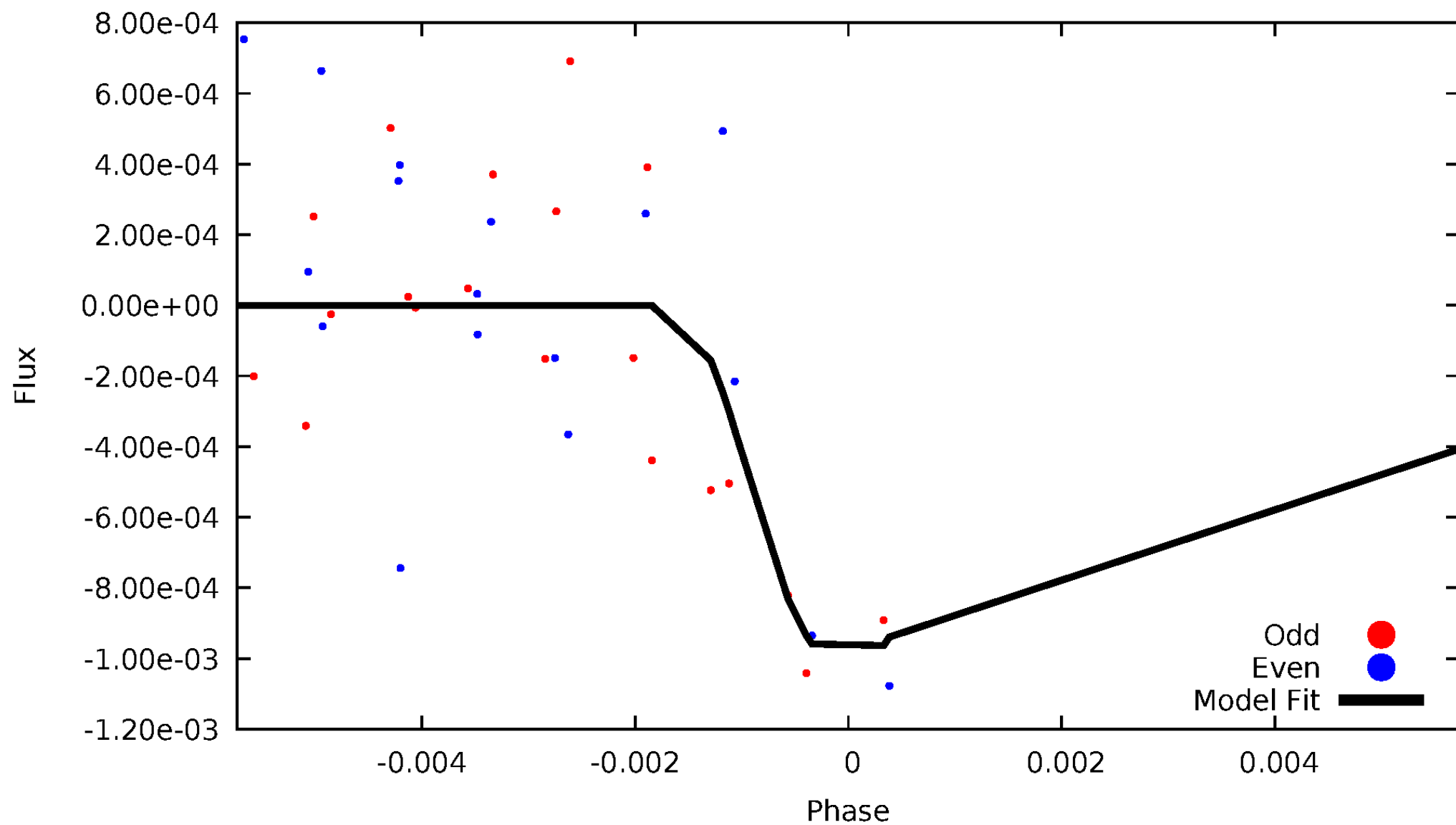


TCE 005726667-04



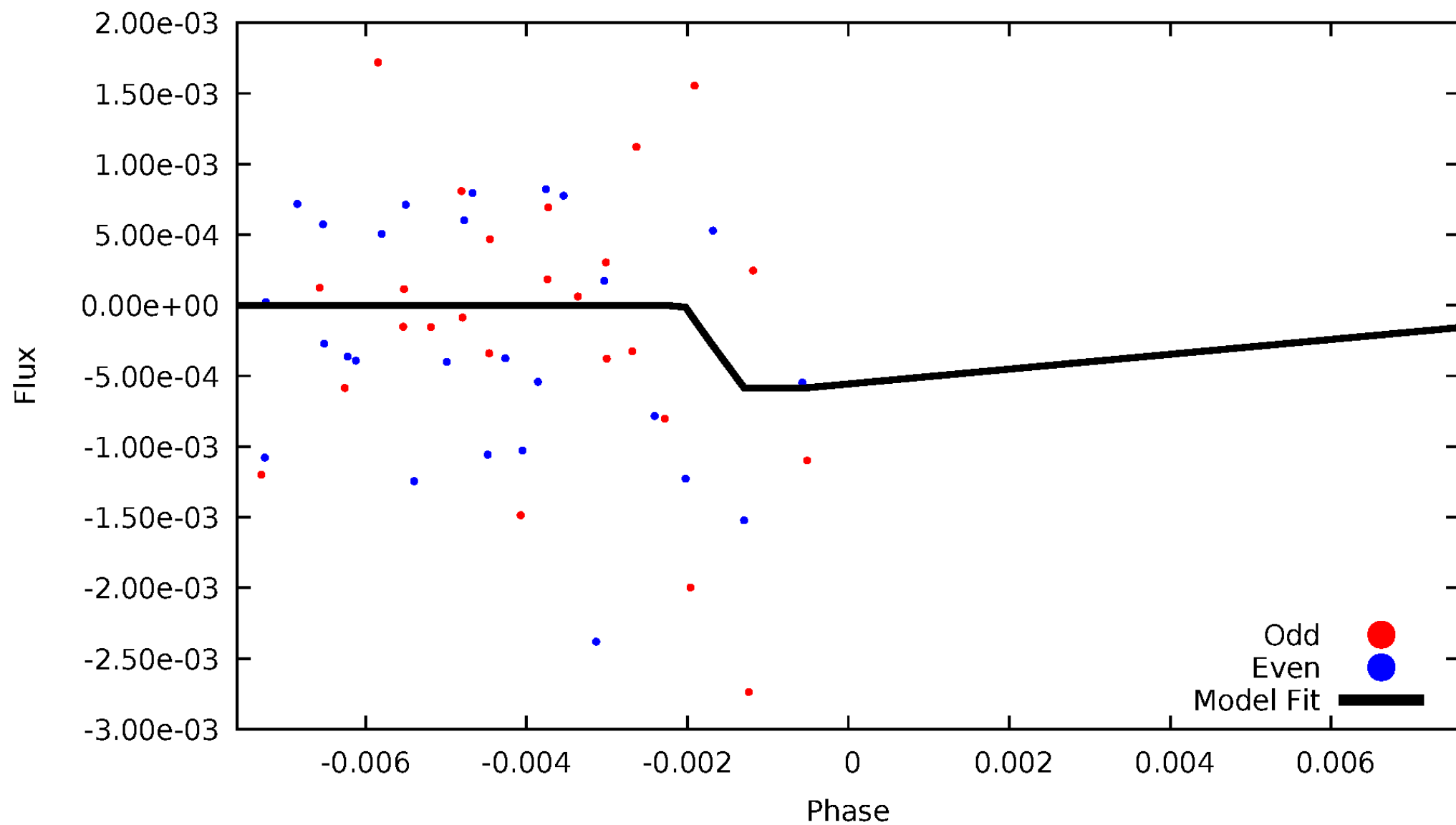
DV Odd/Even

TCE 005726667-04



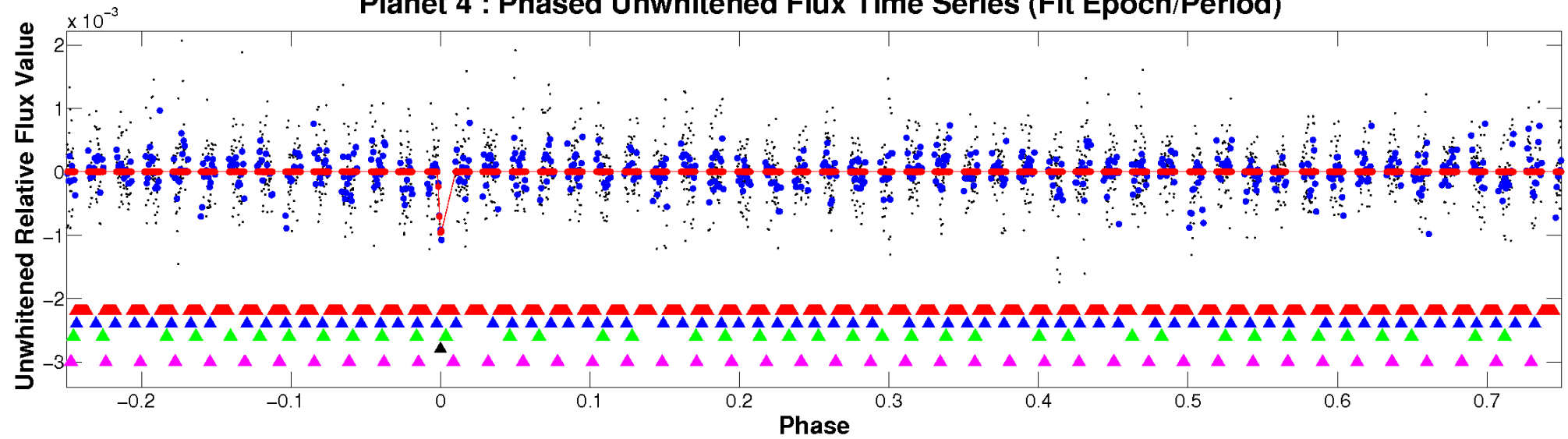
ALT Odd/Even

TCE 005726667-04

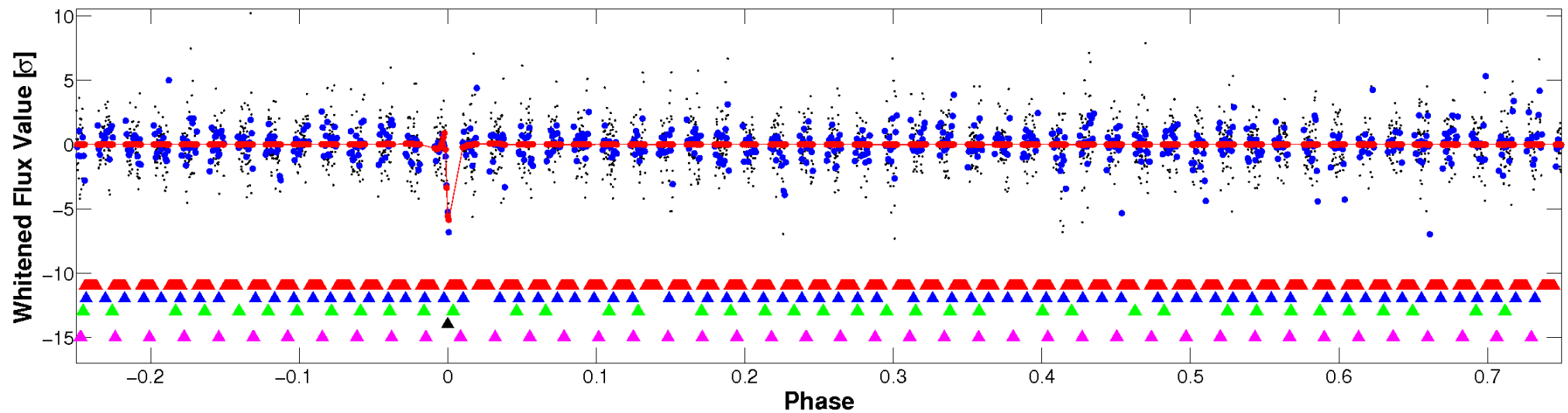


Non-Whitened Vs. Whitened Light Curve

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

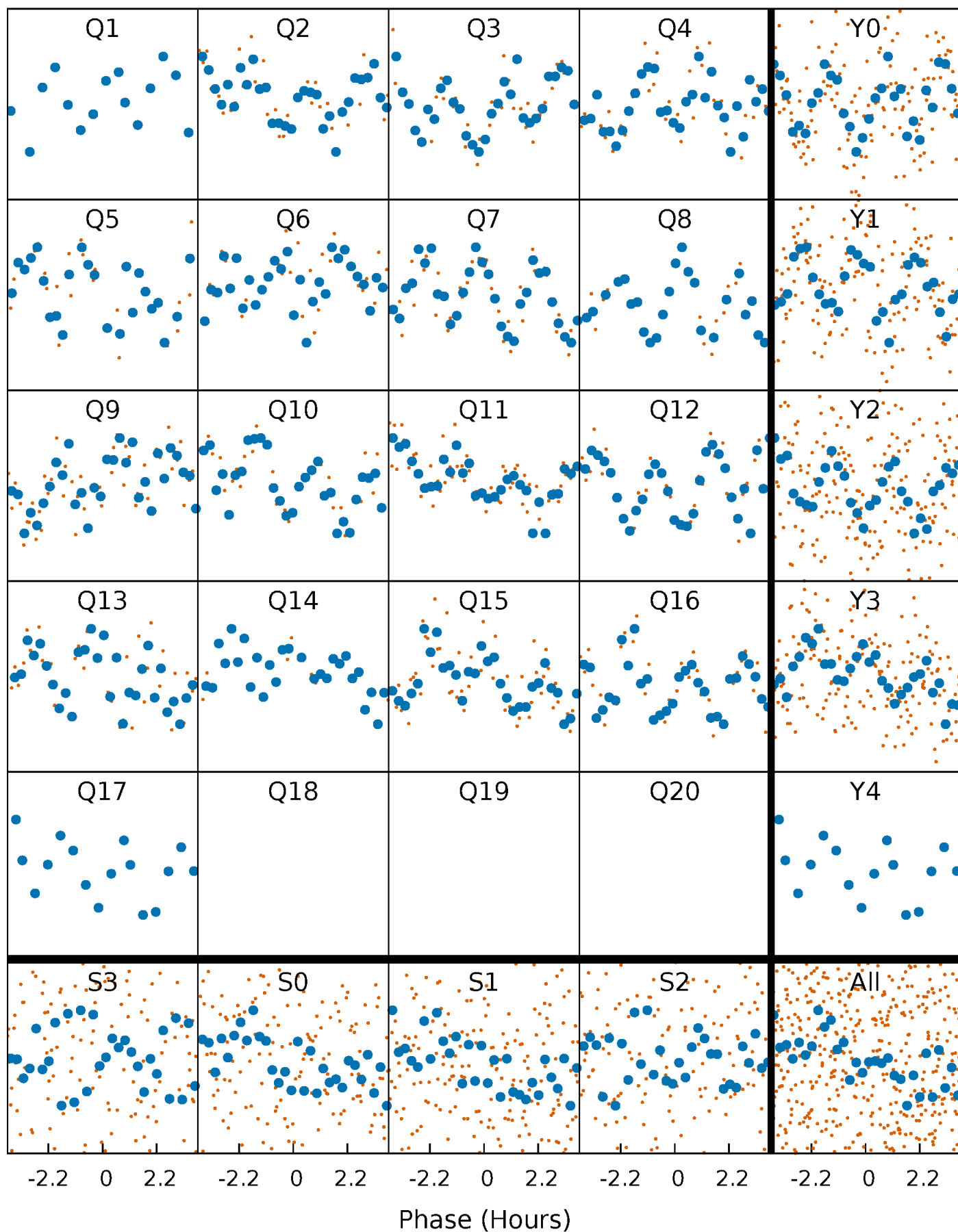


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



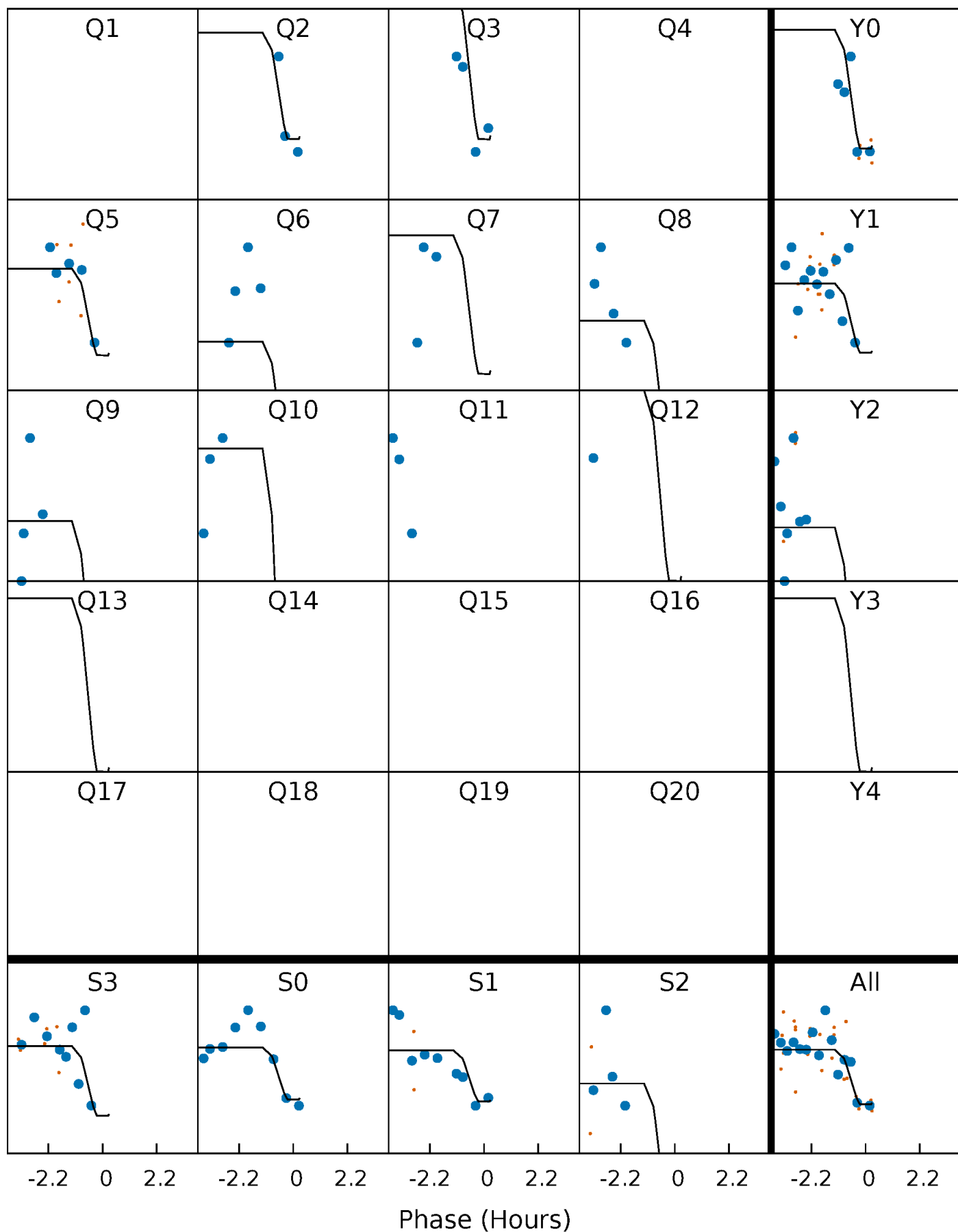
PDC Quarter-Phased Transit Curves

TCE 005726667-04 P= 28.184924 Days $T_0=137.517493$ (BKJD)



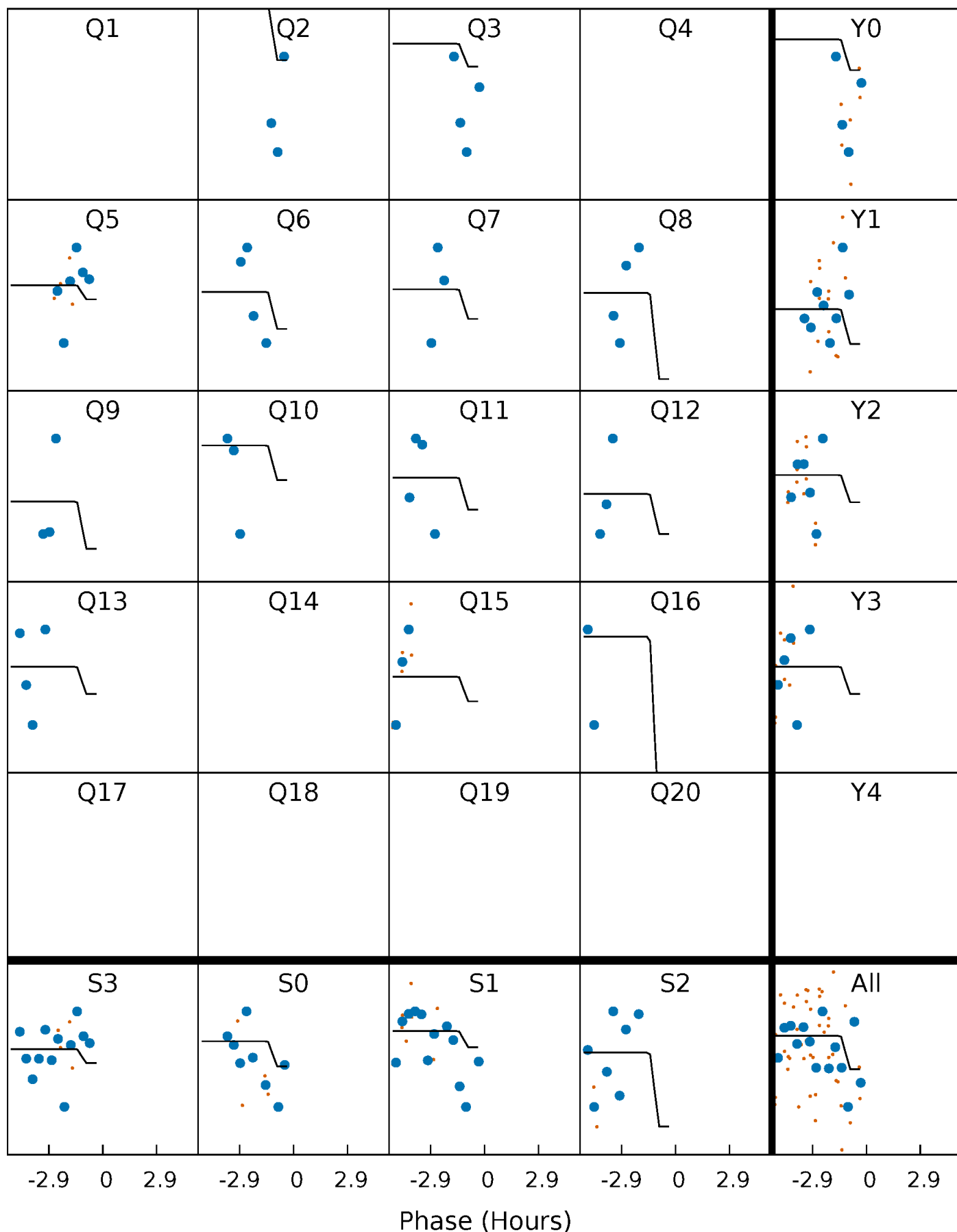
DV Quarter-Phased Transit Curves

TCE 005726667-04 $P = 28.184924$ Days $T_0 = 137.517493$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

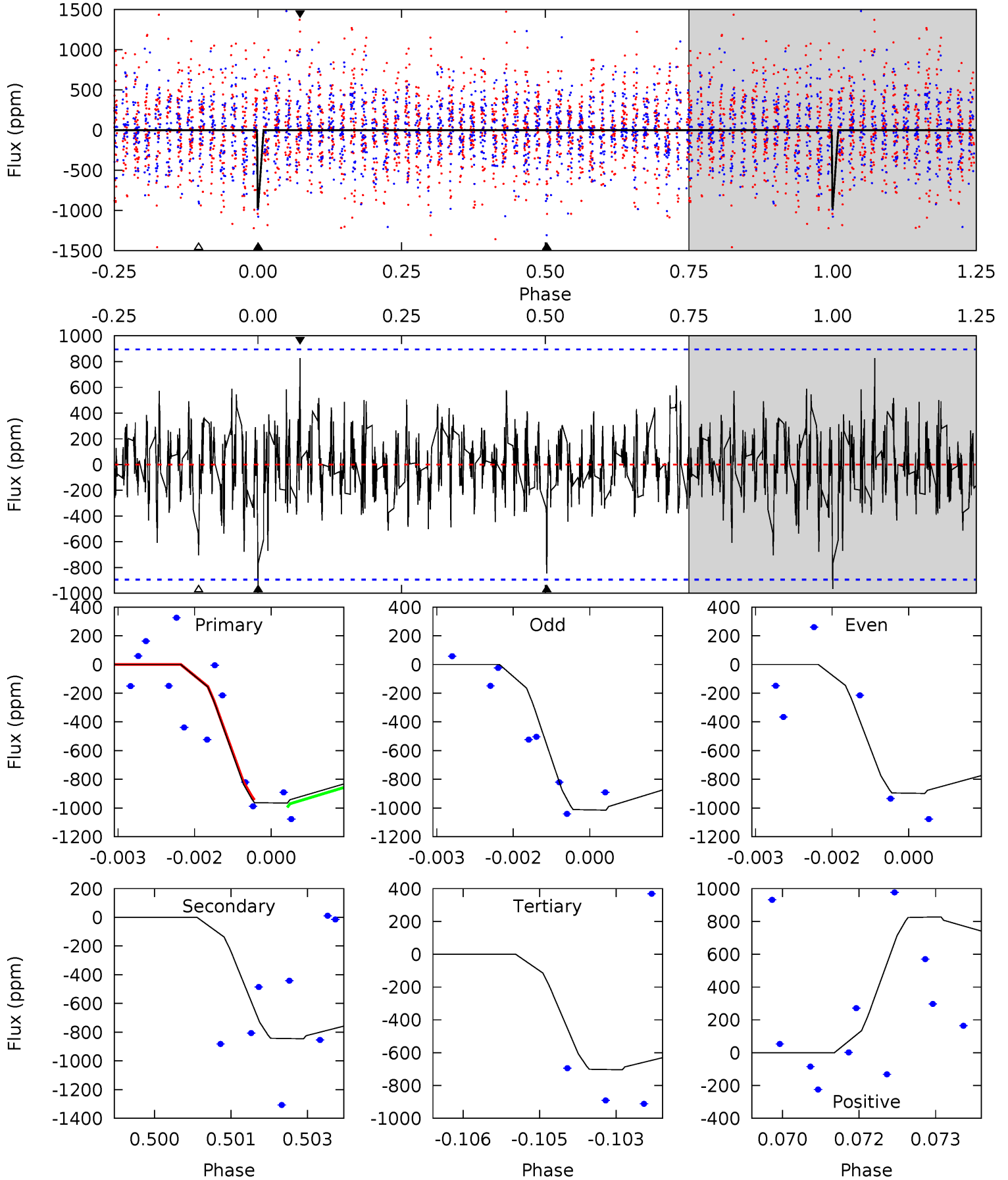
TCE 005726667-04 P= 28.183866 Days $T_0=137.546550$ (BKJD)



DV Model-Shift Uniqueness Test

005726667-04, P = 28.184924 Days, E = 109.332569 Days

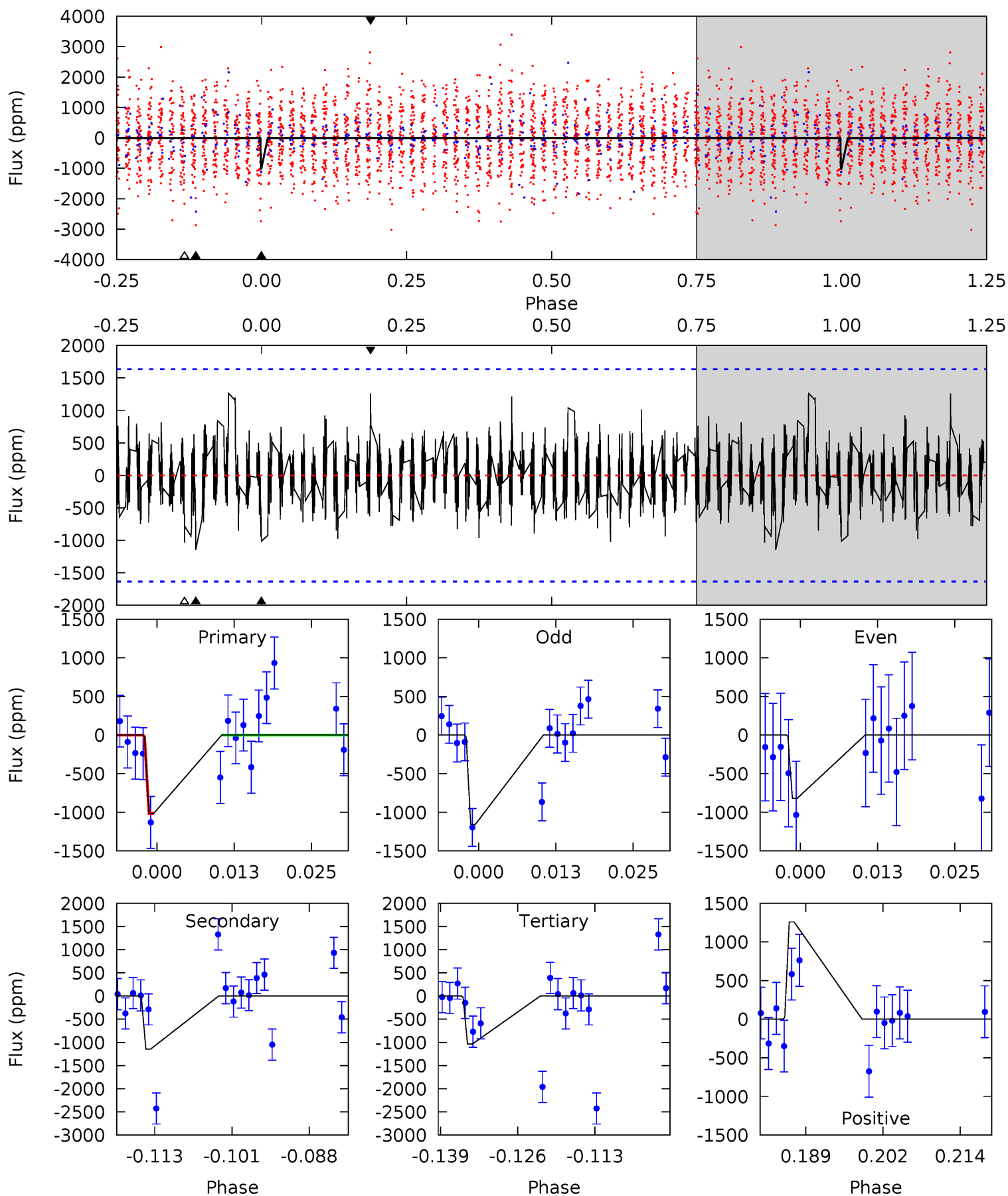
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.81	5.08	4.23	4.97	5.37	3.16	1.22	1.58	0.83	0.85	0.11	0.37	1.00	0.46	0.12



Alt Model-Shift Uniqueness Test

005726667-04, P = 28.183866 Days, E = 109.362684 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.09	3.49	3.16	3.84	4.98	2.49	1.05	-0.07	-0.75	0.33	-0.35	0.54	0	0.52	0



Stellar Parameters For KIC 005726667

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7968^{+63}_{-87}	$3.712^{+0.270}_{-0.072}$	$-0.020^{+0.200}_{-0.200}$	$3.321^{+0.579}_{-1.074}$	$2.075^{+0.237}_{-0.237}$	$0.080^{+0.142}_{-0.023}$
	+1%/-1%	+7%/-2%	+1000%/-1000%	+17%/-32%	+11%/-11%	+178%/-29%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005726667-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-846 ± 166	$44.64^{+48.73}_{-31.74}$	1825^{+80}_{-139}	3906^{+2756}_{-826}	12^{+123}_{-9}
Alt.	-1145 ± 328	$45.57^{+51.61}_{-32.14}$	1825^{+81}_{-154}	4084^{+2817}_{-900}	15^{+157}_{-12}

T_{max} = Theoretical Maximum Planetary Temperature
 T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)
 A_{obs} = Observed Albedo (Assuming $T=0$)

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

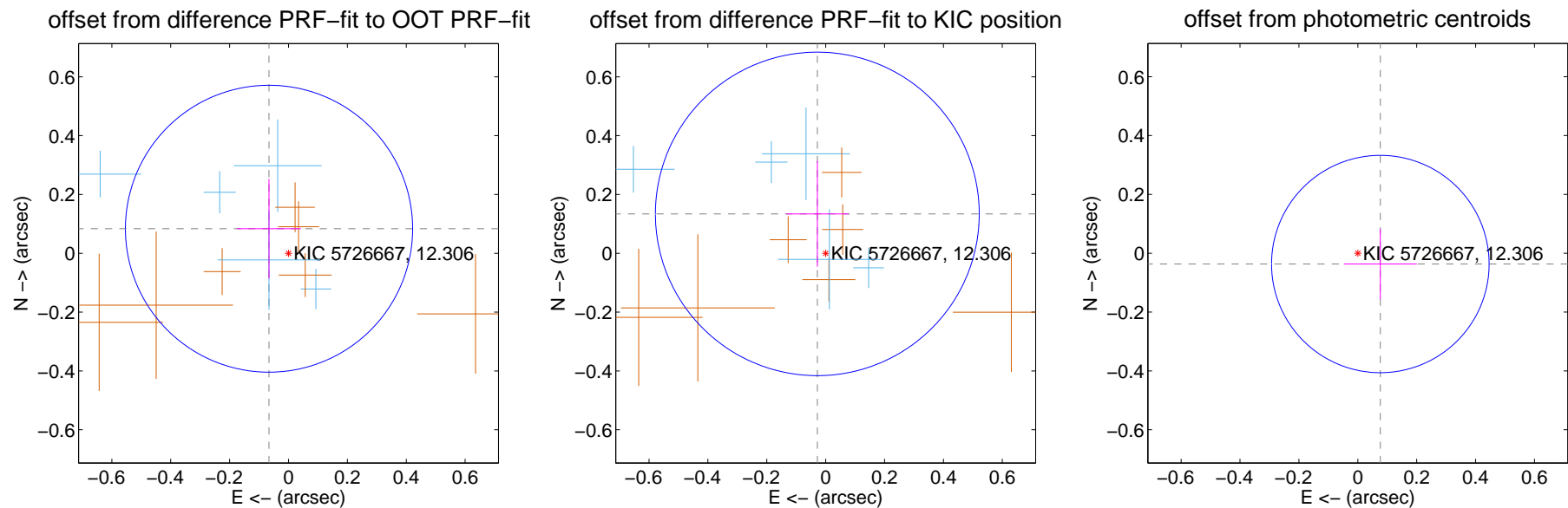
DV Centroid Data

Supplemental centroid analysis for 005726667-04. Kepler magnitude: 12.31. Transit SNR 11.76

There are 8 quarters with good PRF difference image offsets

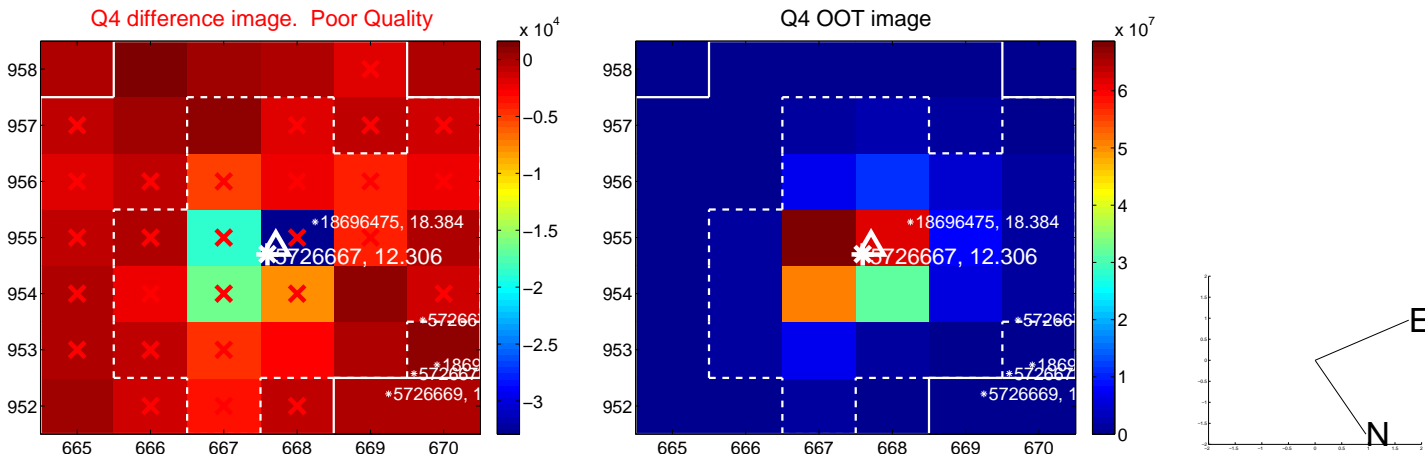
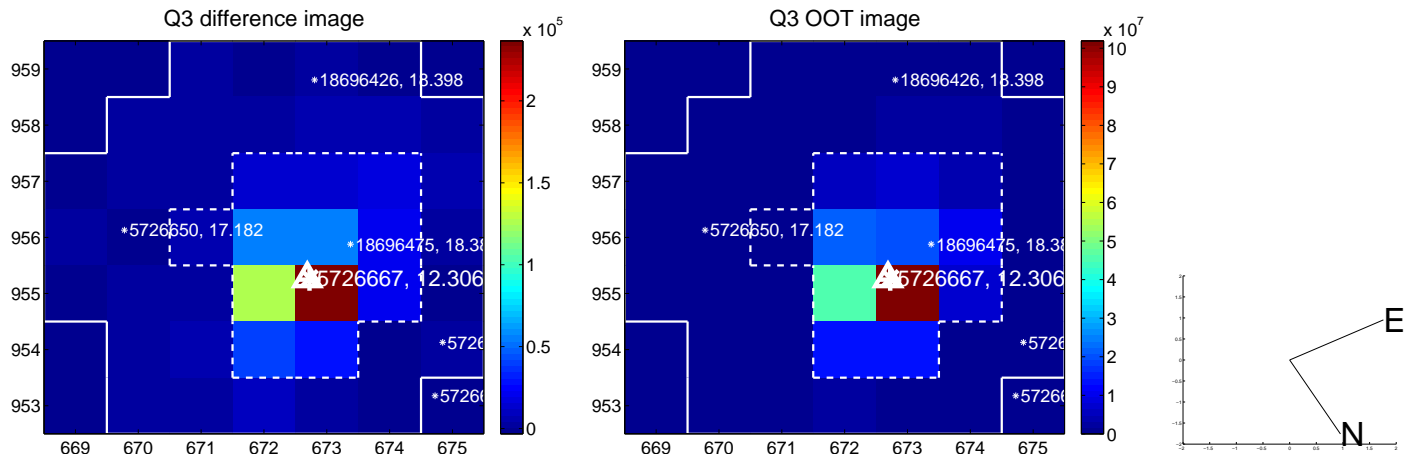
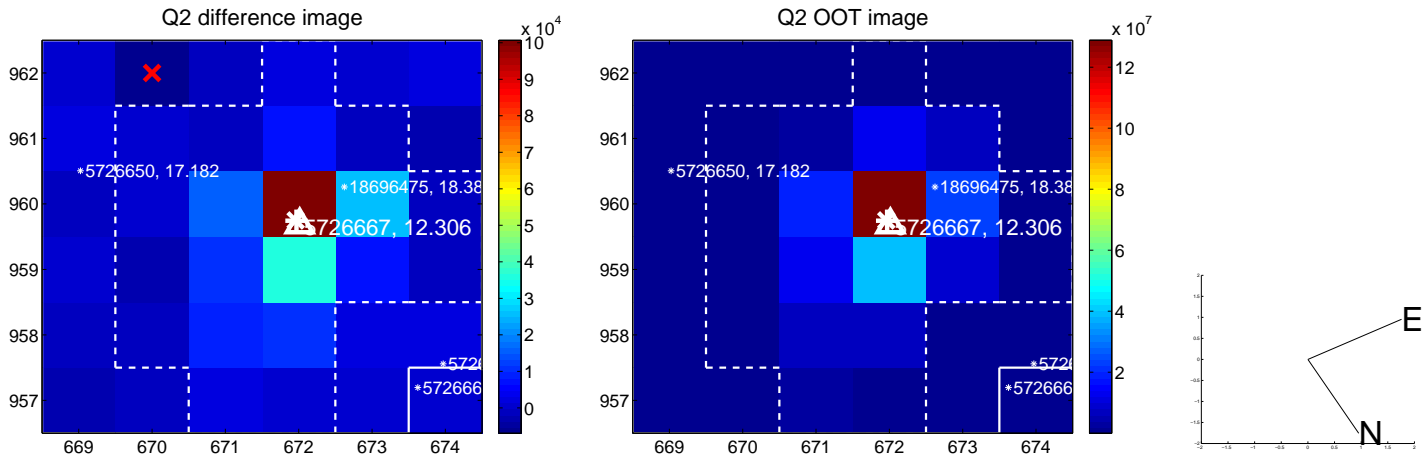
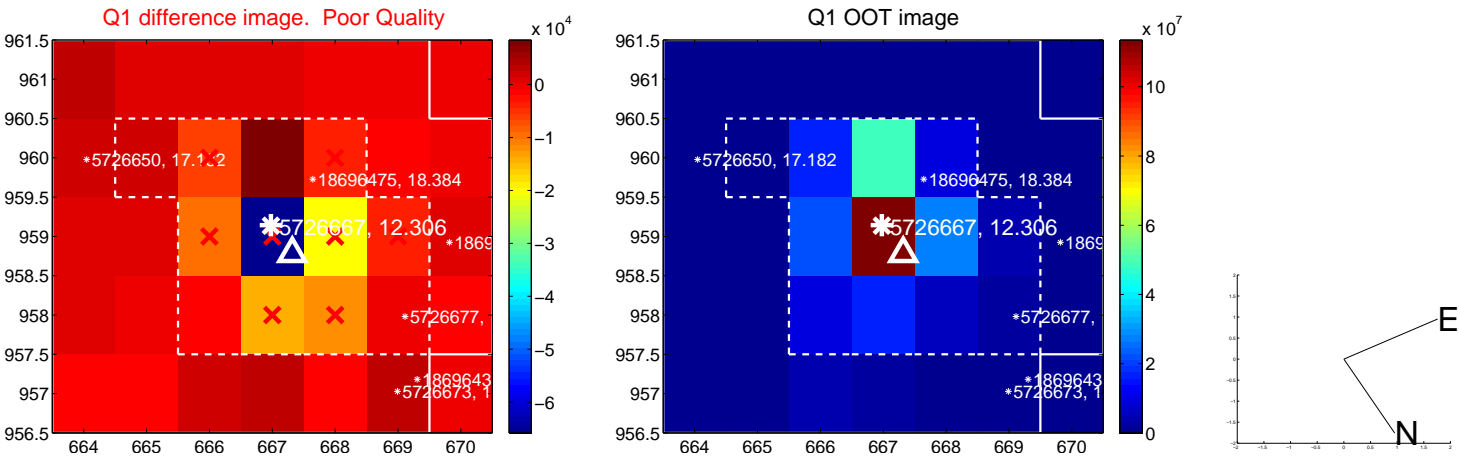
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.107 ± 0.163	0.66	0.066 ± 0.109	0.084 ± 0.170
PRF-fit source offset from KIC position	0.137 ± 0.183	0.75	0.028 ± 0.106	0.134 ± 0.180
photometric centroid source offset	0.08 ± 0.12	0.69	-0.08 ± 0.12	-0.04 ± 0.12

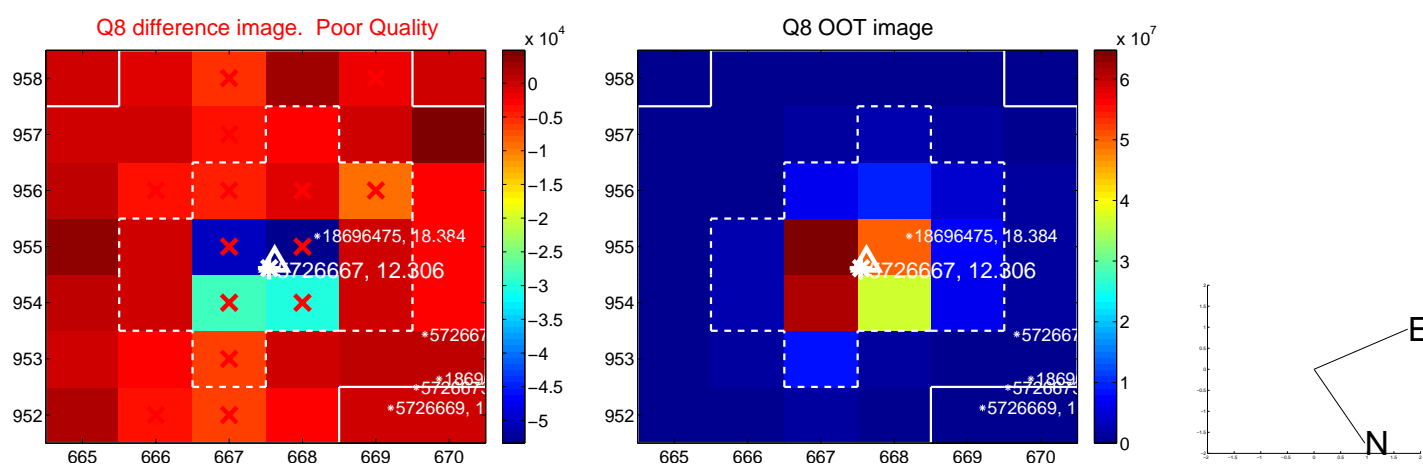
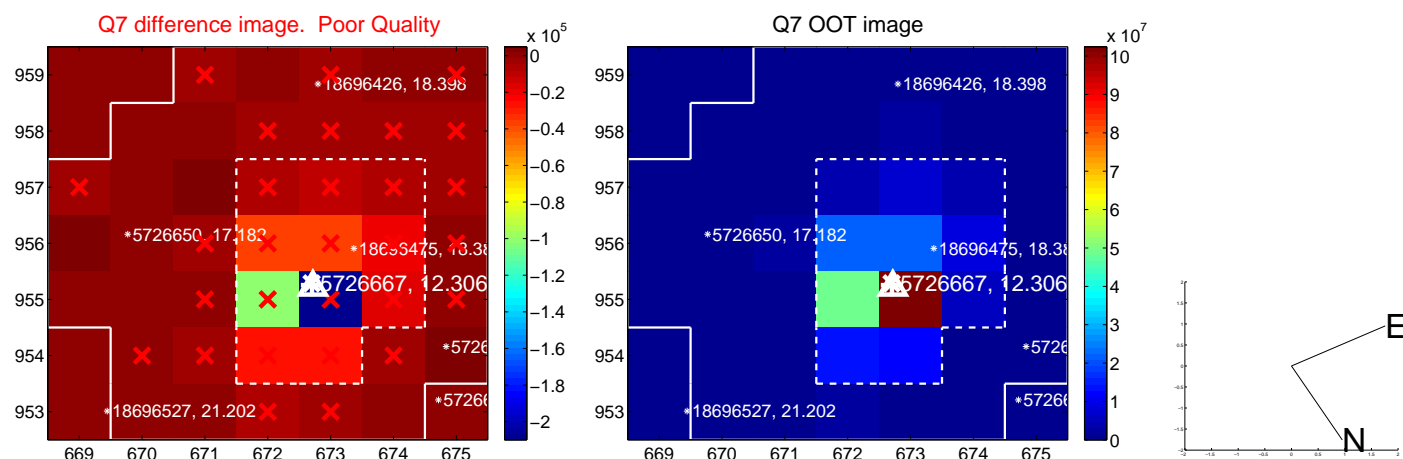
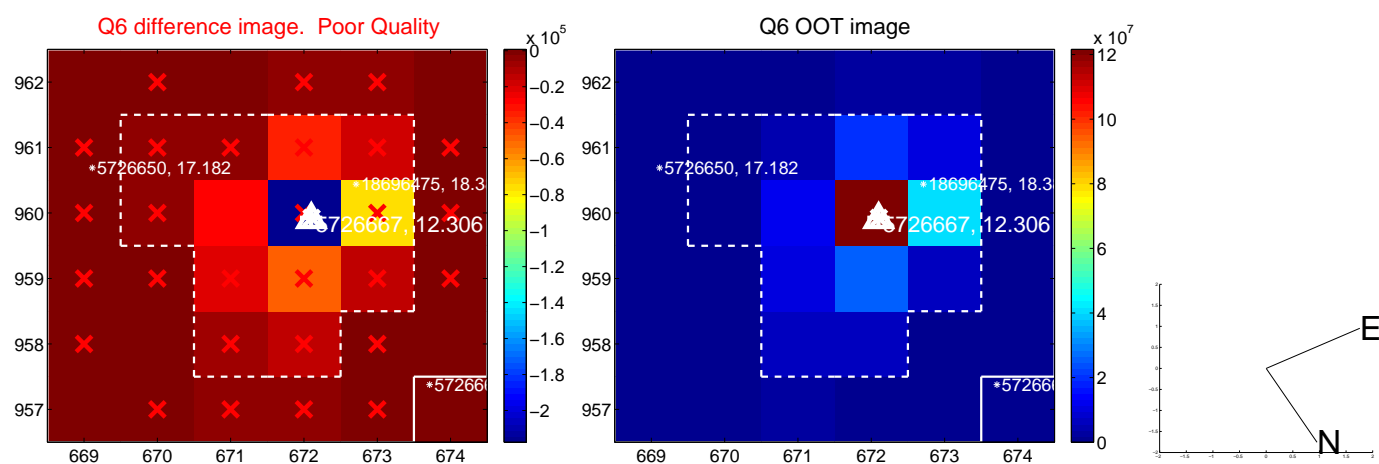
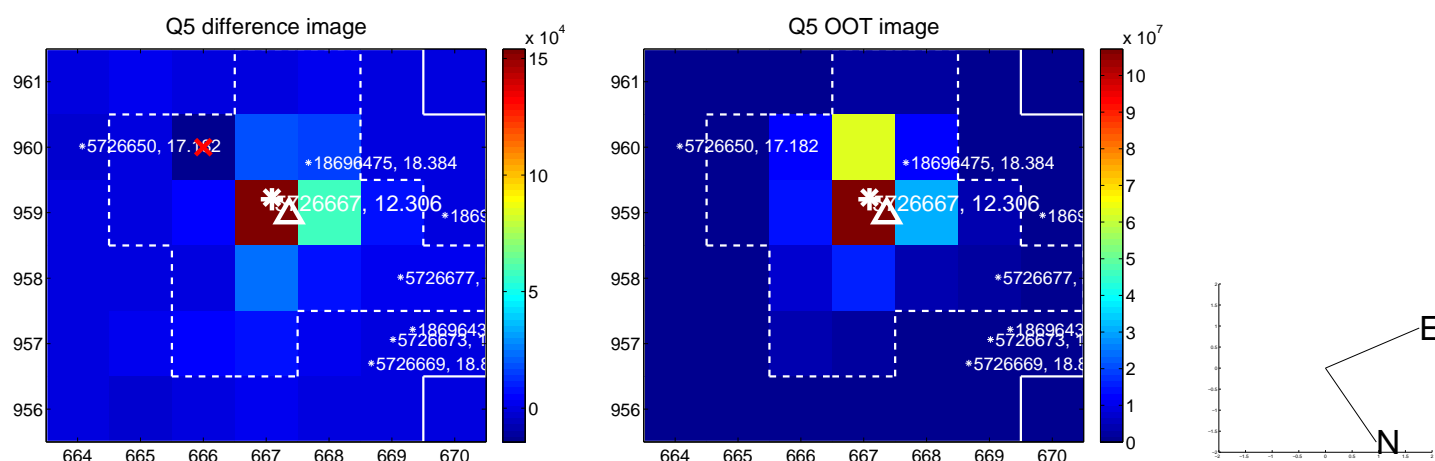


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

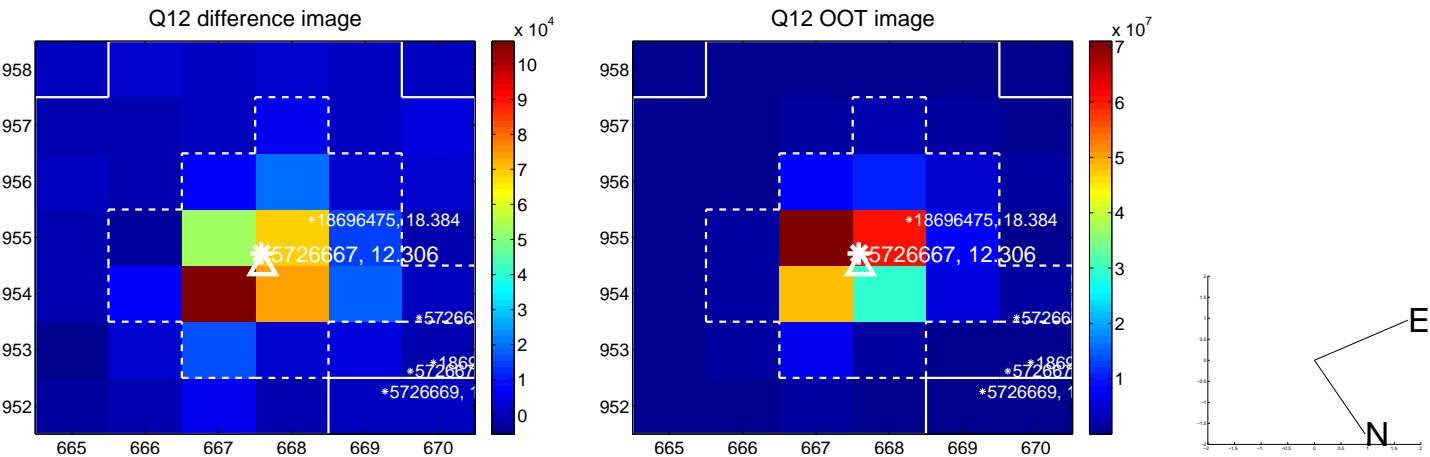
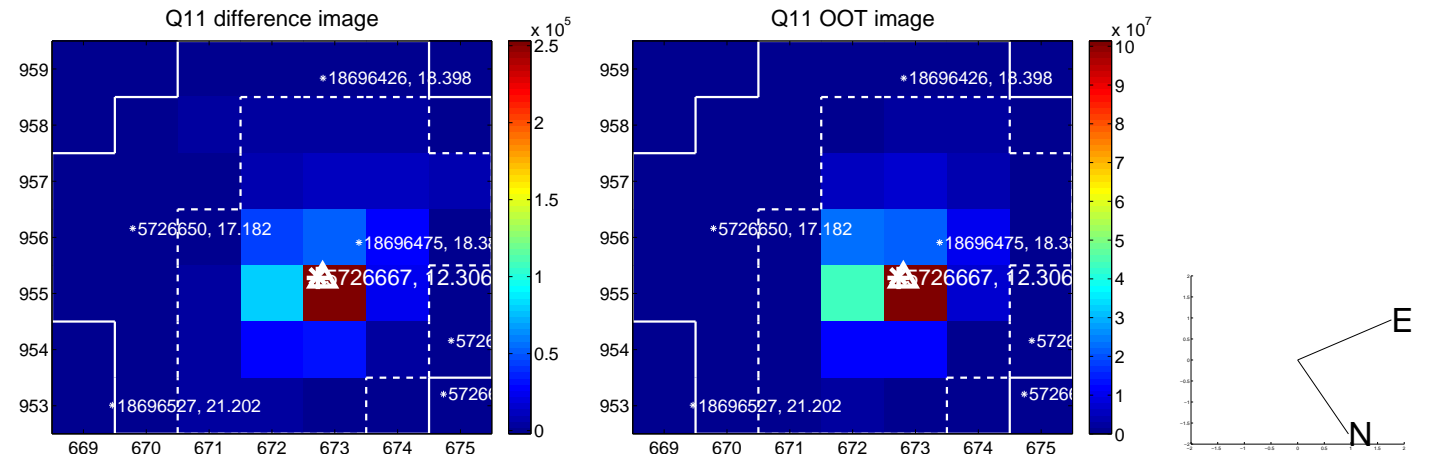
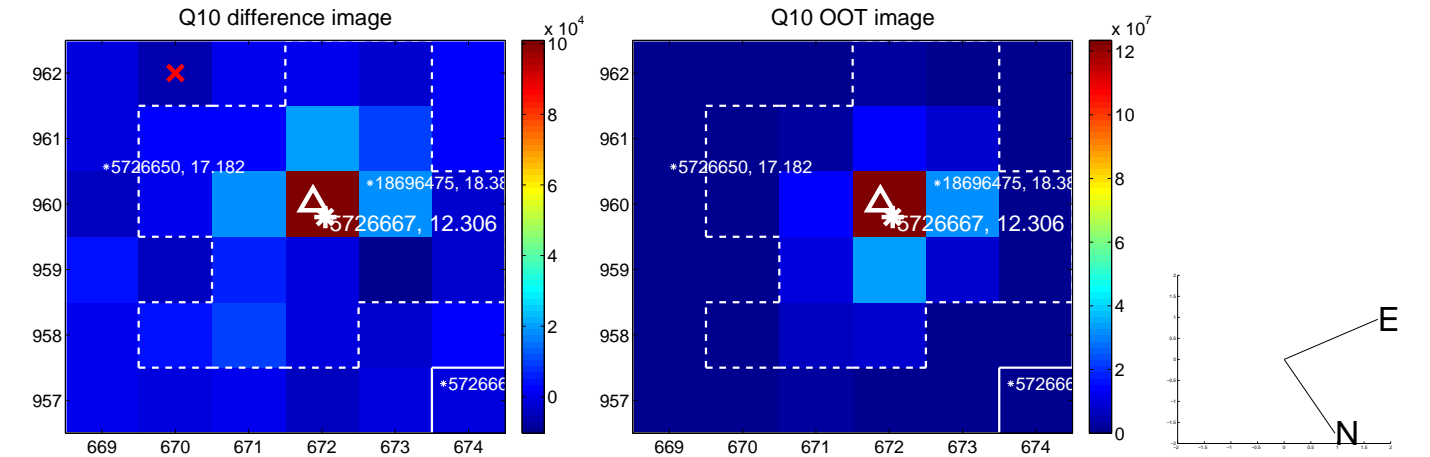
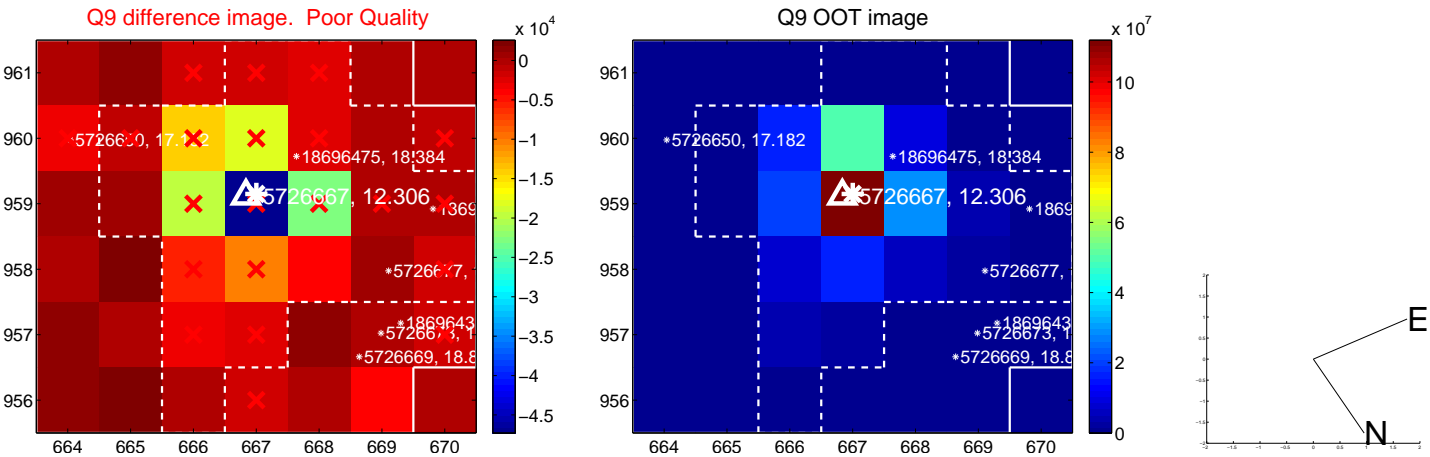
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



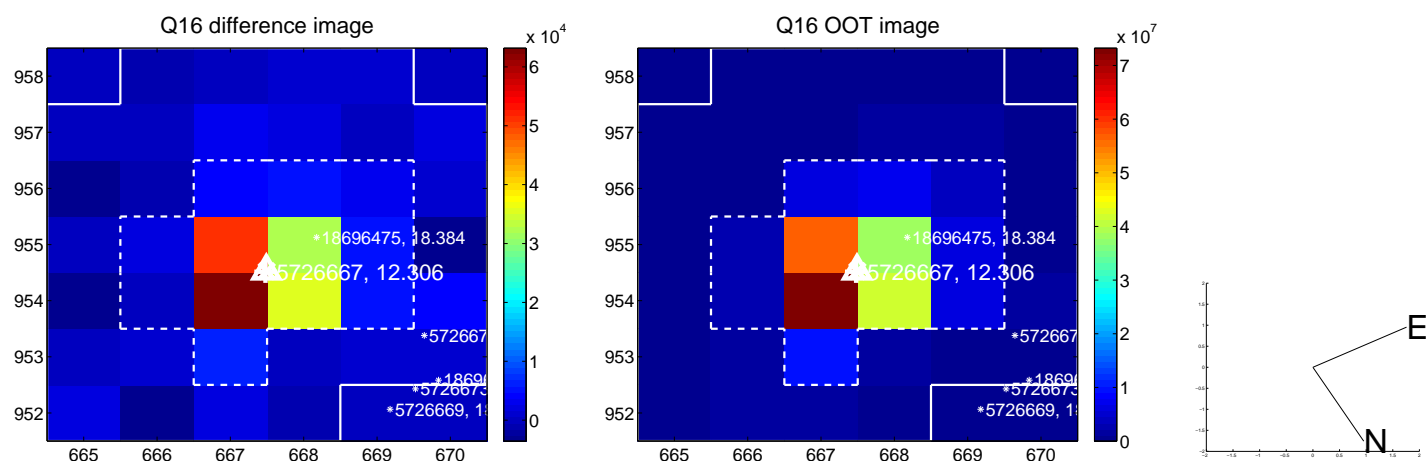
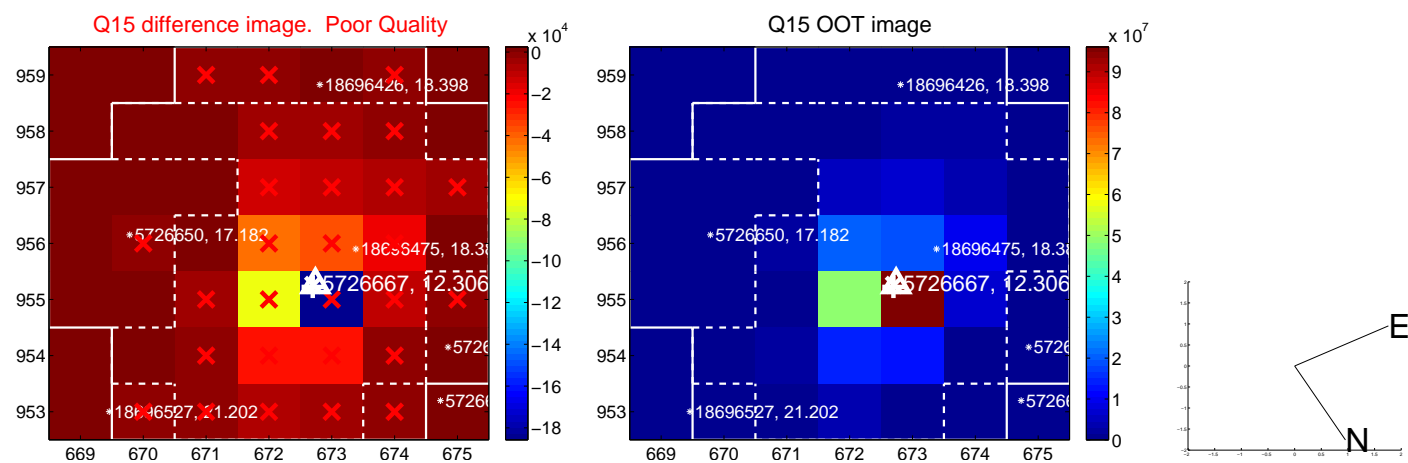
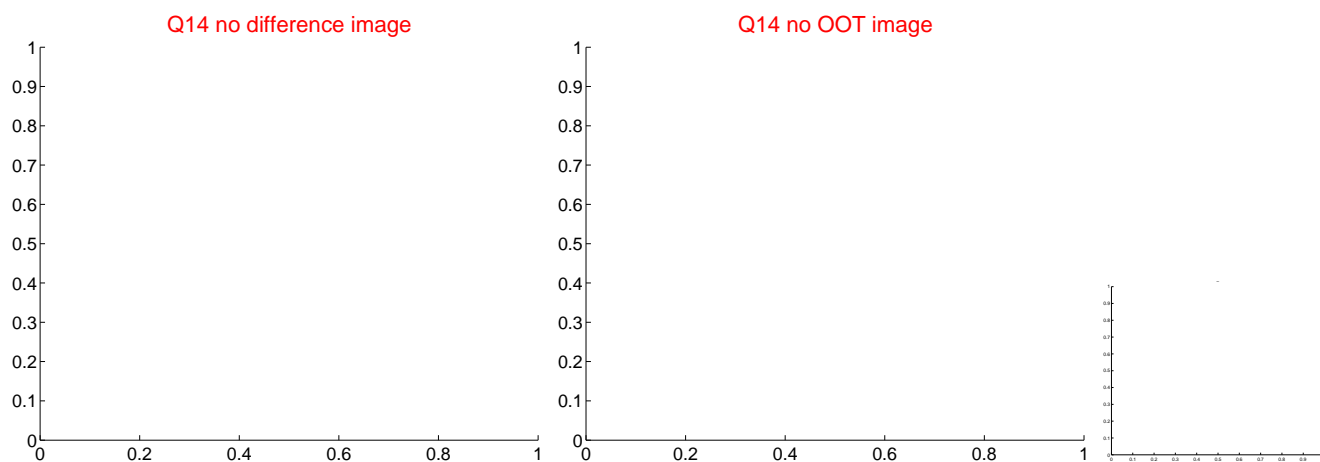
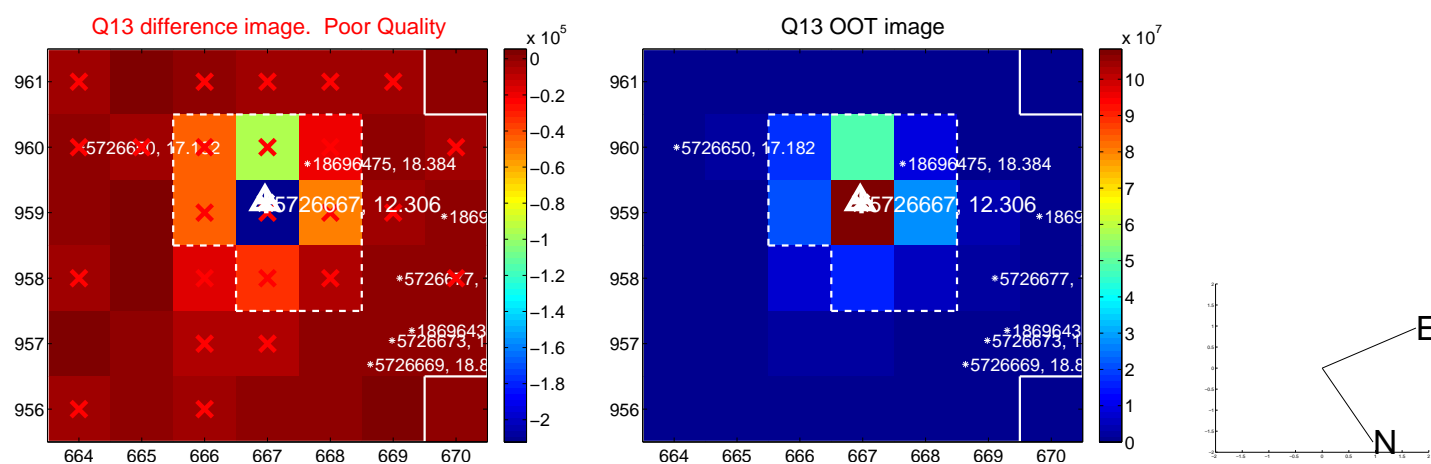
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



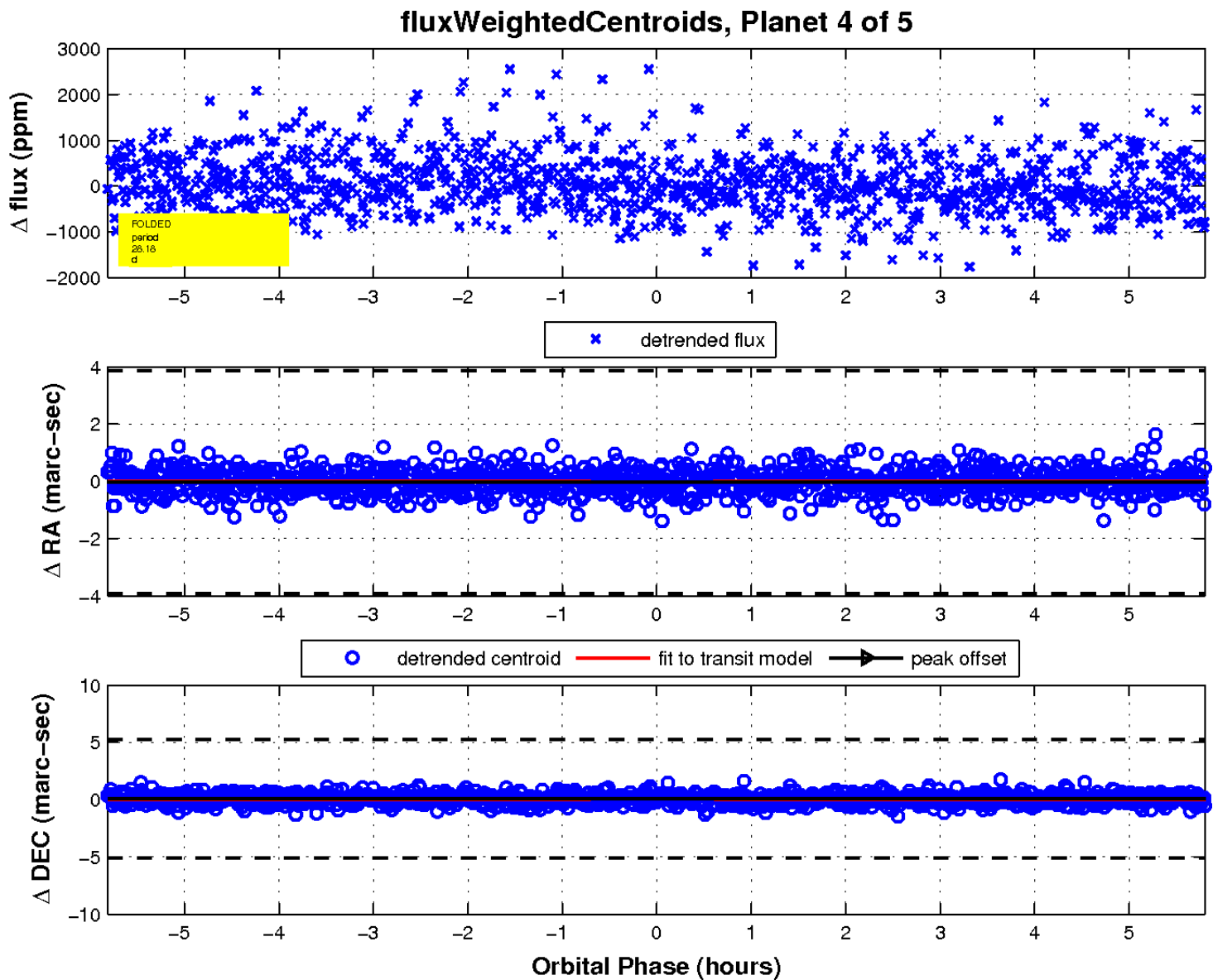
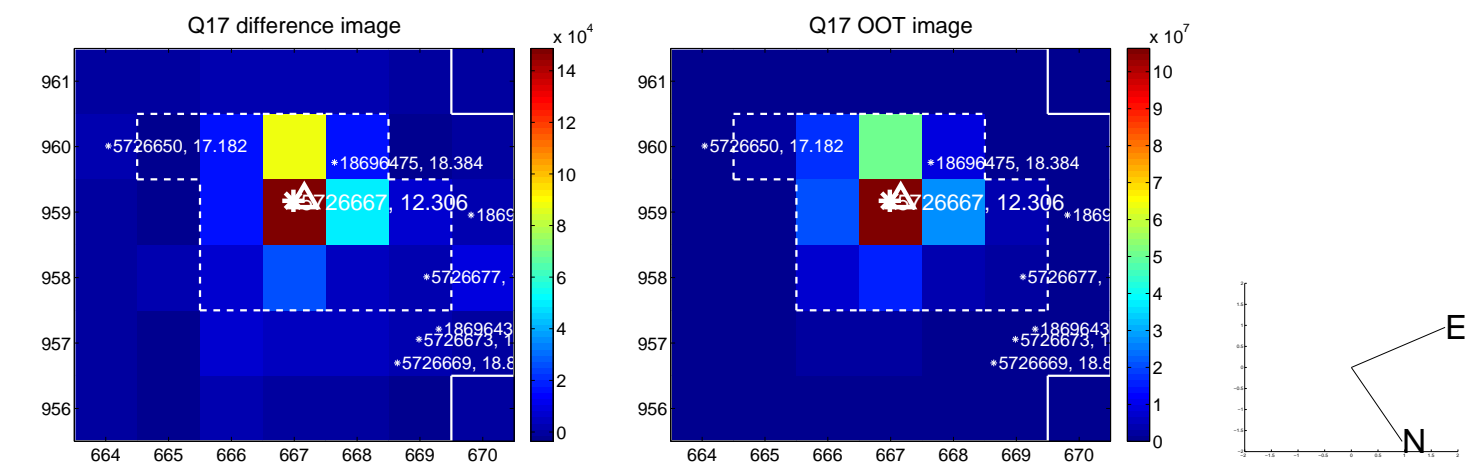
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

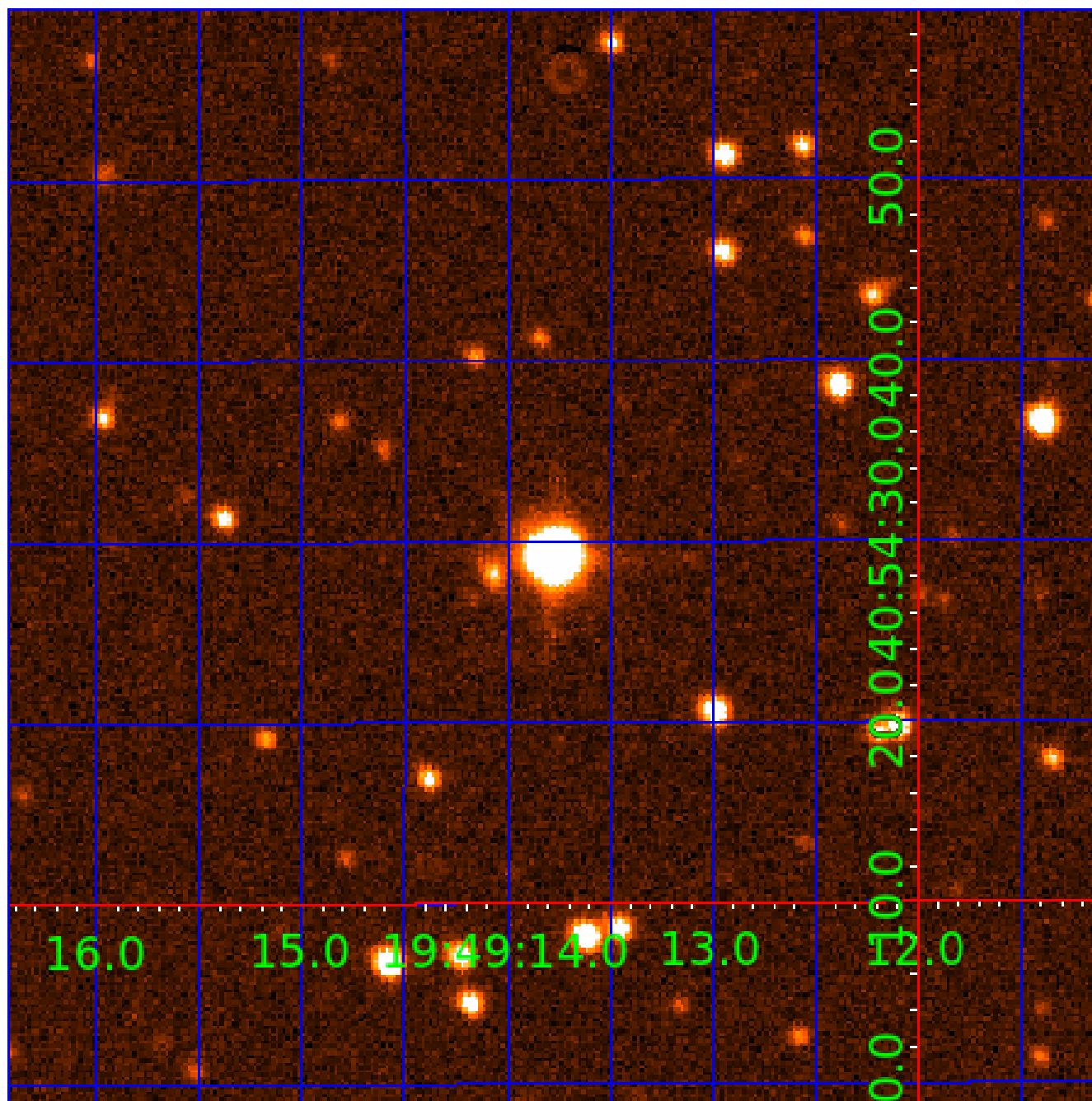


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005726667

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})
005726667-01	OBS	No	1.595109	132.466101	56.4	12.024	8.7	7.8	3.32	7968	2.67	34309.71
005726667-02	OBS	No	20.335517	142.813207	801.5	2.364	13.2	12.0	3.32	7968	9.70	1152.03
005726667-03	OBS	No	38.165021	133.558242	286.0	9.875	12.2	4.6	3.32	7968	5.94	497.64
005726667-04	OBS	No	28.184924	137.517493	1029.6	1.939	9.9	11.8	3.32	7968	14.51	745.50
005726667-05	OBS	No	22.940918	144.325403	783.9	1.444	12.2	11.4	3.32	7968	9.41	980.97

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005726667-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
005726667-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
005726667-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST
005726667-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005726667-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—HALO_GHOST

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

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

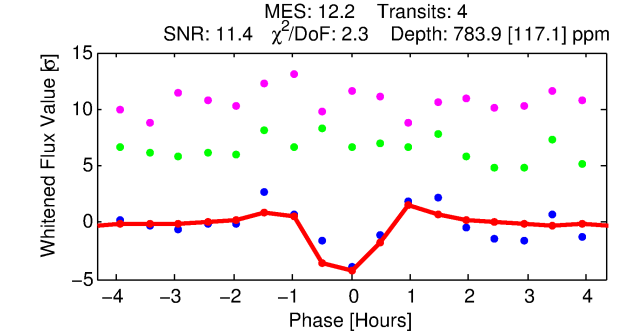
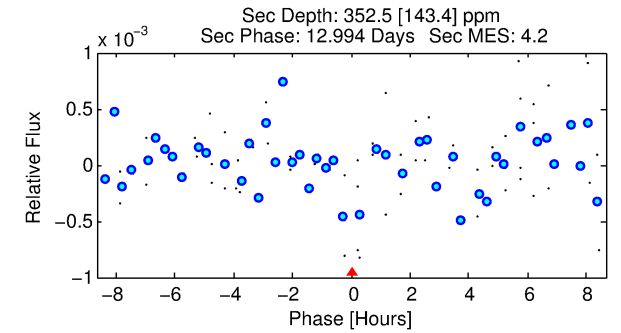
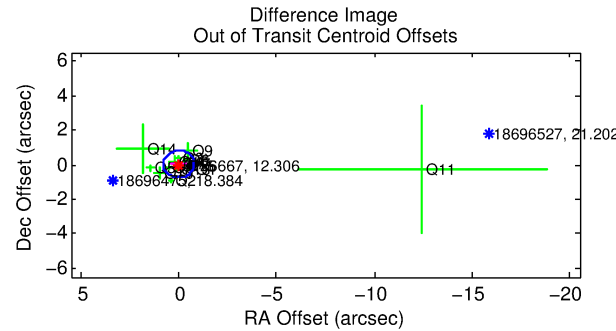
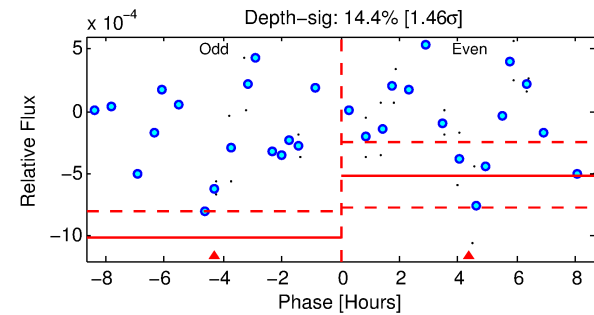
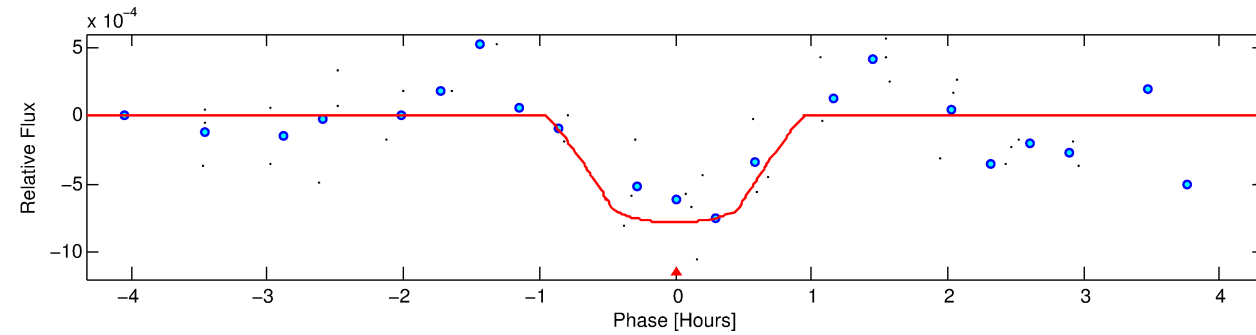
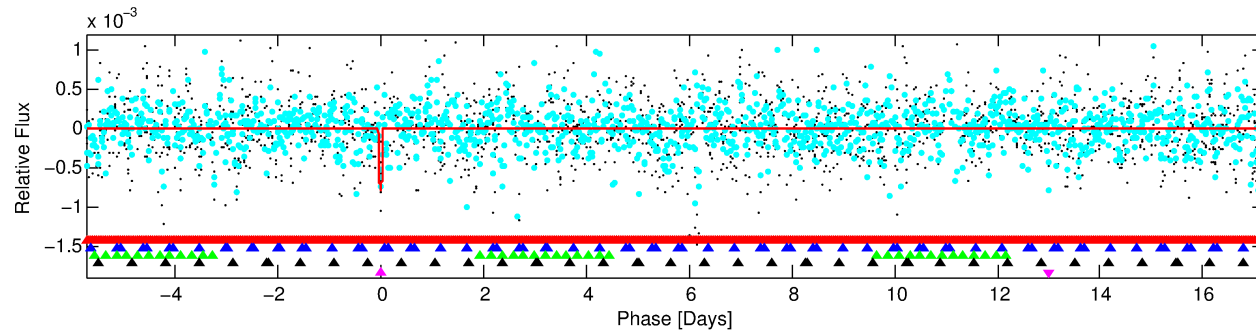
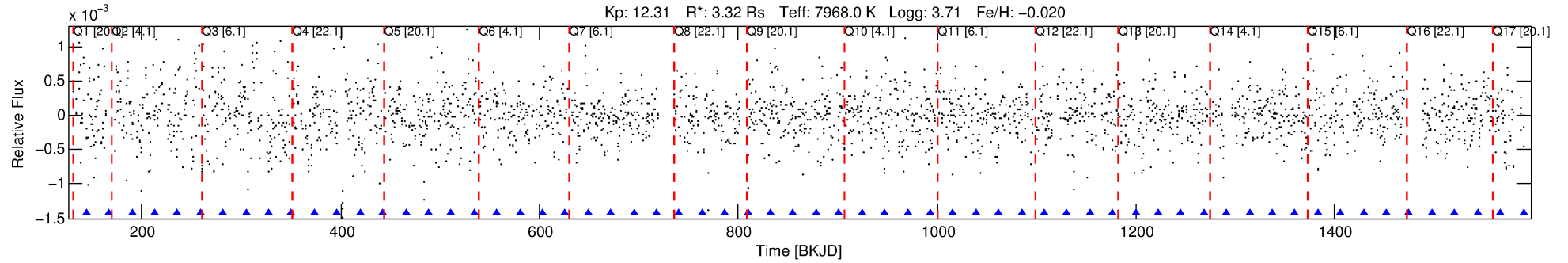
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005726667-05

No Significant Match Found

DV One-Page Summary

KIC: 5726667 Candidate: 5 of 5 Period: 22.941 d



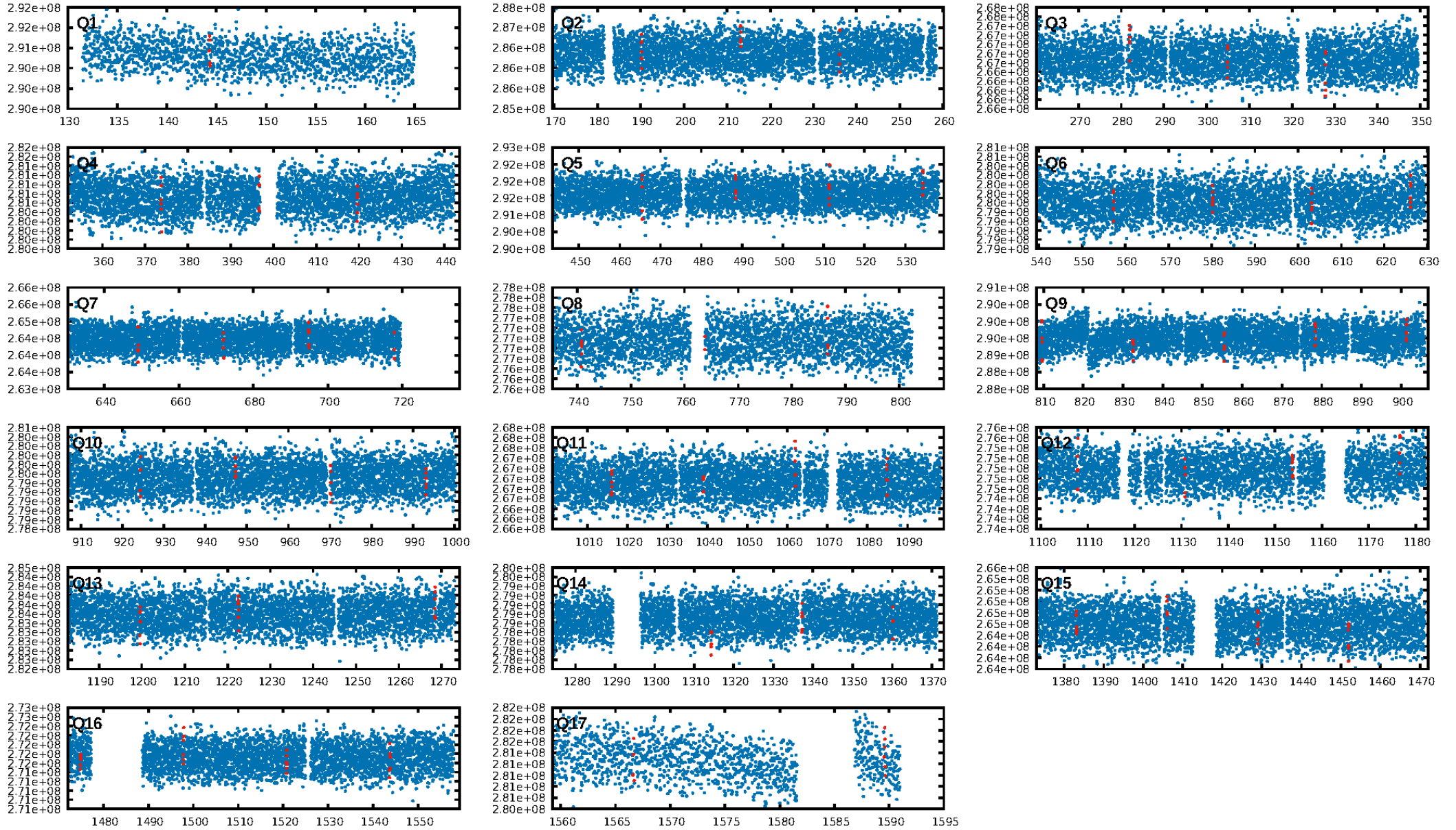
DV Fit Results:

Period = 22.94092 [0.00021] d
Epoch = 144.3254 [0.0080] BKJD
Rp/R* = 0.0260 [0.0814]
a/R* = 124.52 [2193.48]
b = 0.02 [1032.96]
Seff = 980.97 [460.30]
Teff = 1427 [167] K
Rp = 9.42 [29.66] Re
a = 0.2015 [0.0603] AU
Ag = 88.81 [559.31] [0.16 σ]
Teffp = 6773 [10635] K [0.50 σ]

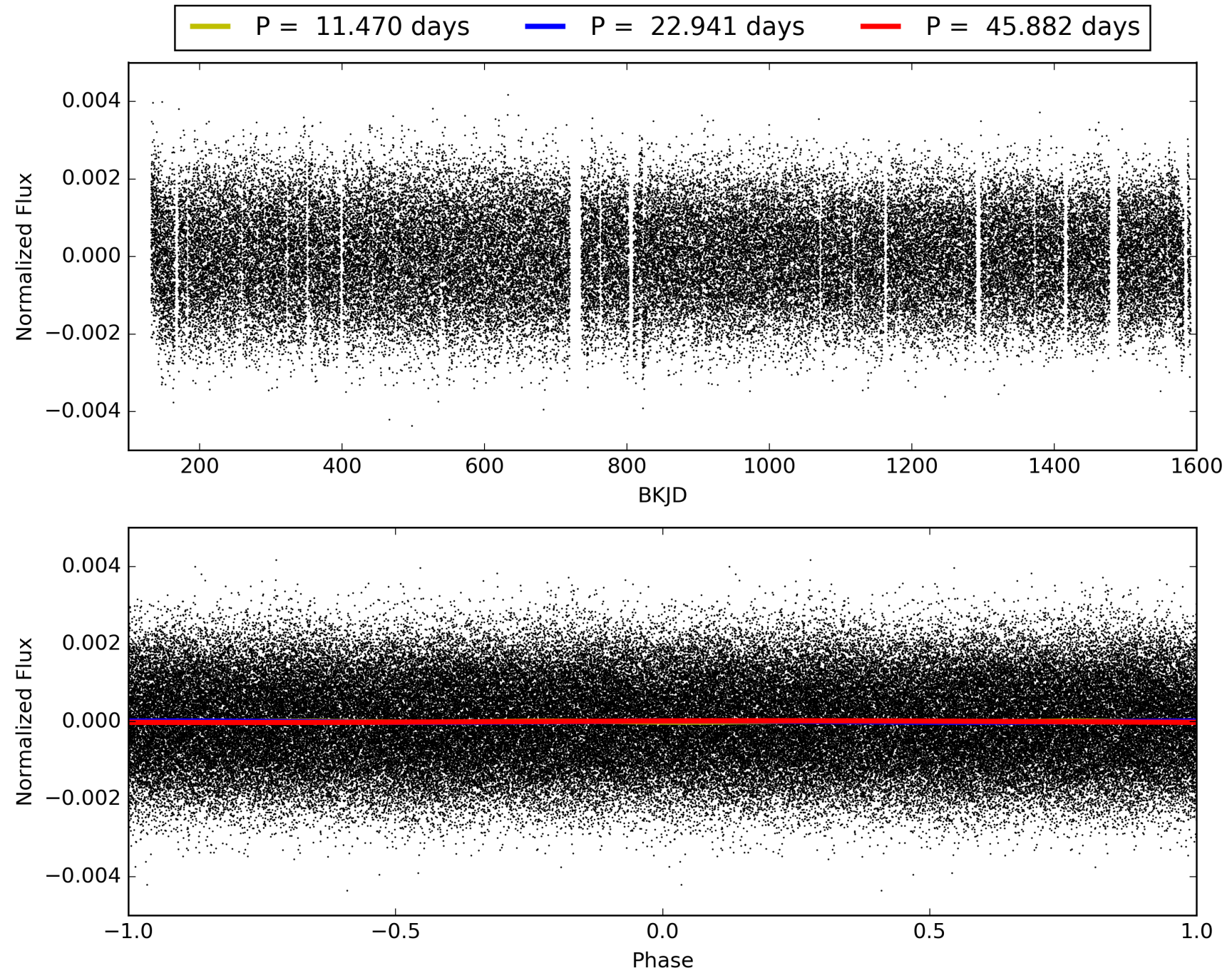
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [22.57 σ]
LongPeriod-sig: 100.0% [52.06 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 12.6%
Bootstrap-pfa: 1.53e-13
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.1004
Centroid-sig: 3.2%
Centroid-so: 0.266 arcsec [1.95 σ]
OotOffset-rm: 0.031 arcsec [0.12 σ]
KicOffset-rm: 0.069 arcsec [0.26 σ]
OotOffset-st: 4/4/3/5 [16]
KicOffset-st: 4/4/3/5 [16]
DiffImageQuality-fgm: 0.38 [6/16]
DiffImageOverlap-fno: 0.94 [16/17]

TCE 005726667-05, PDC Light Curves

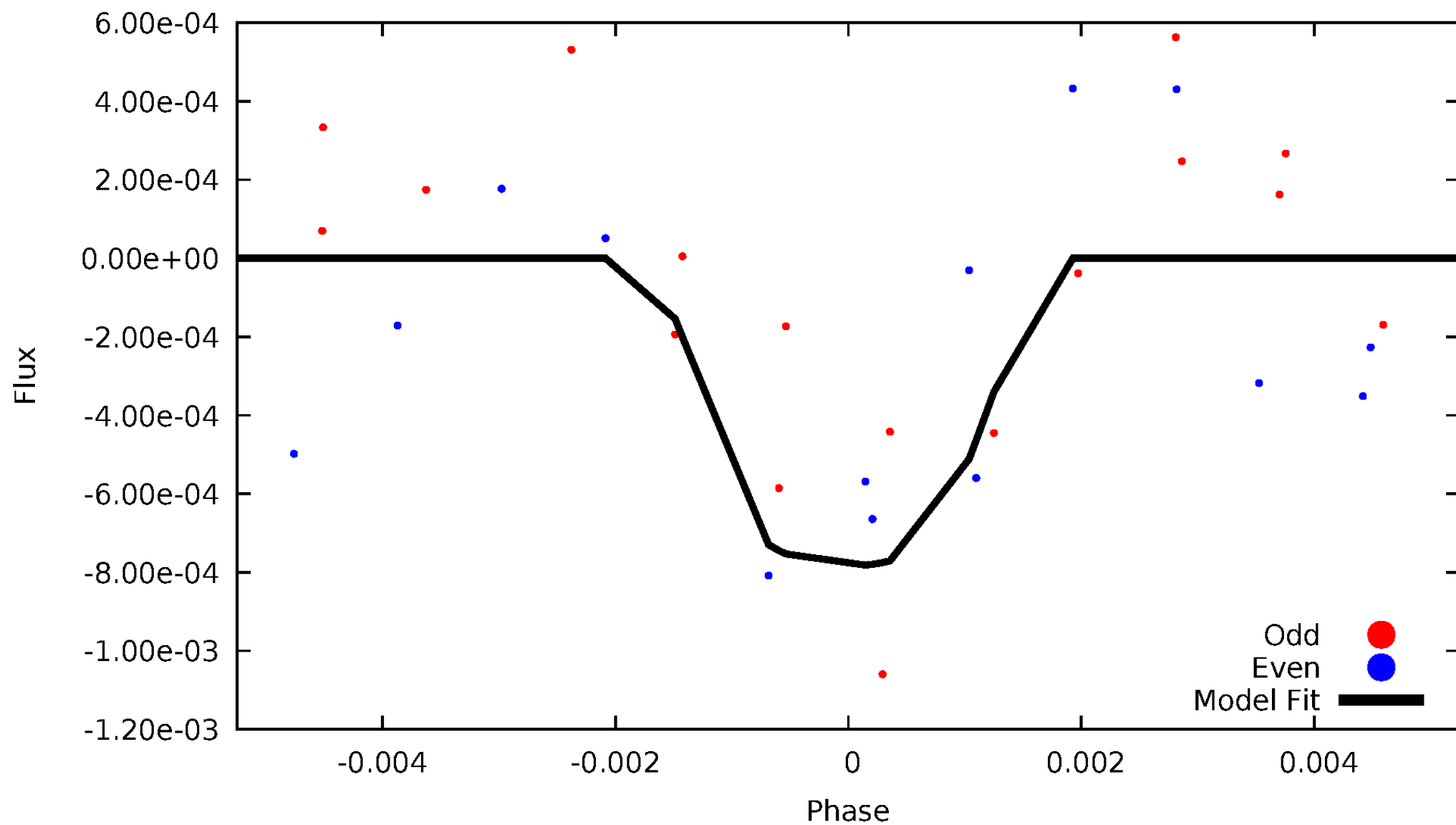


TCE 005726667-05



DV Odd/Even

TCE 005726667-05

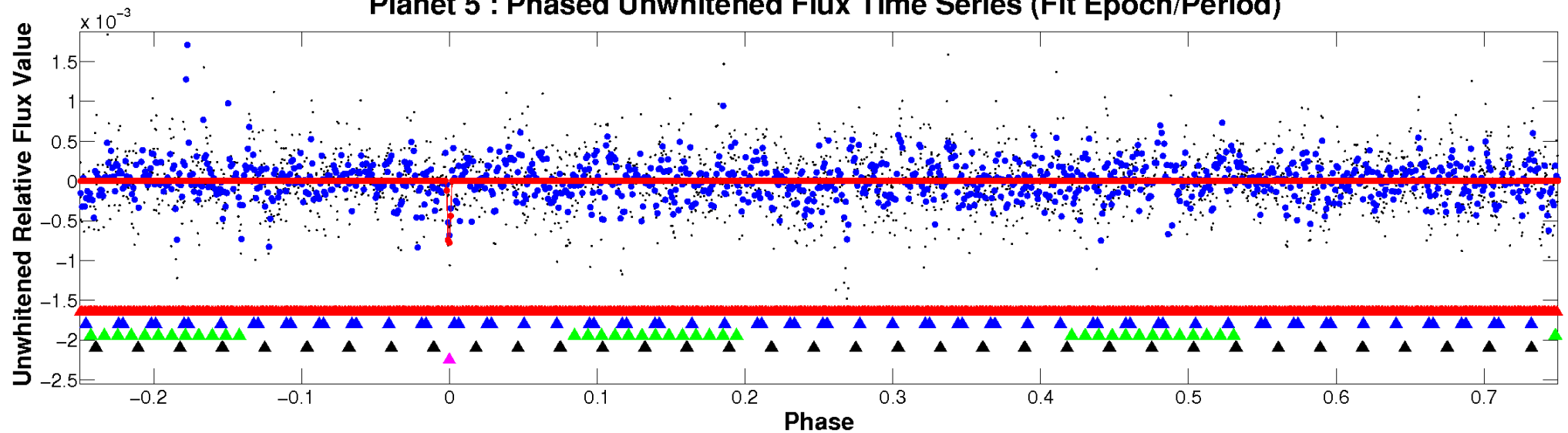


ALT Odd/Even

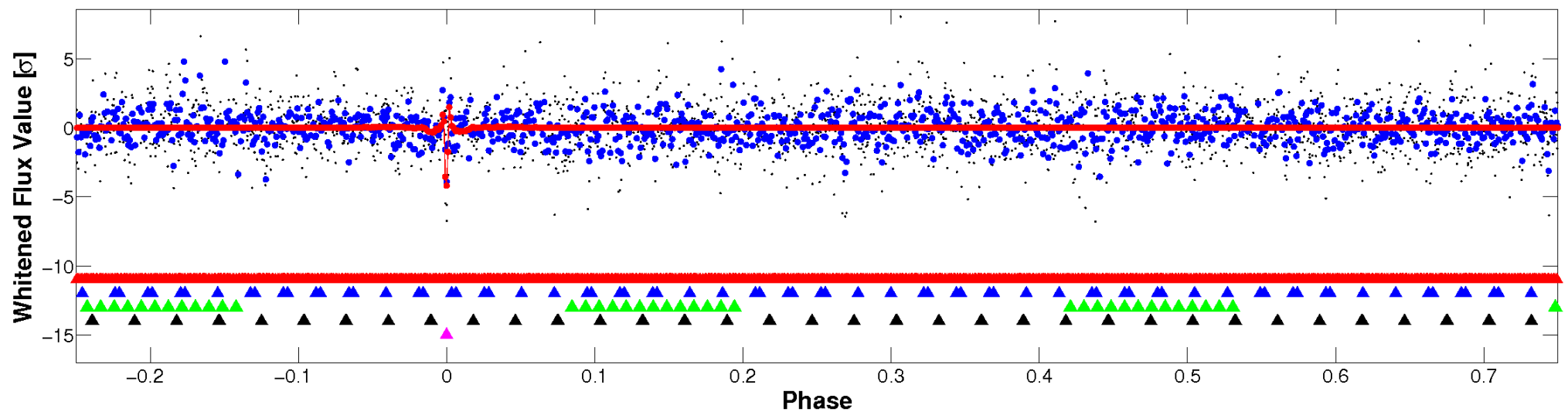
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

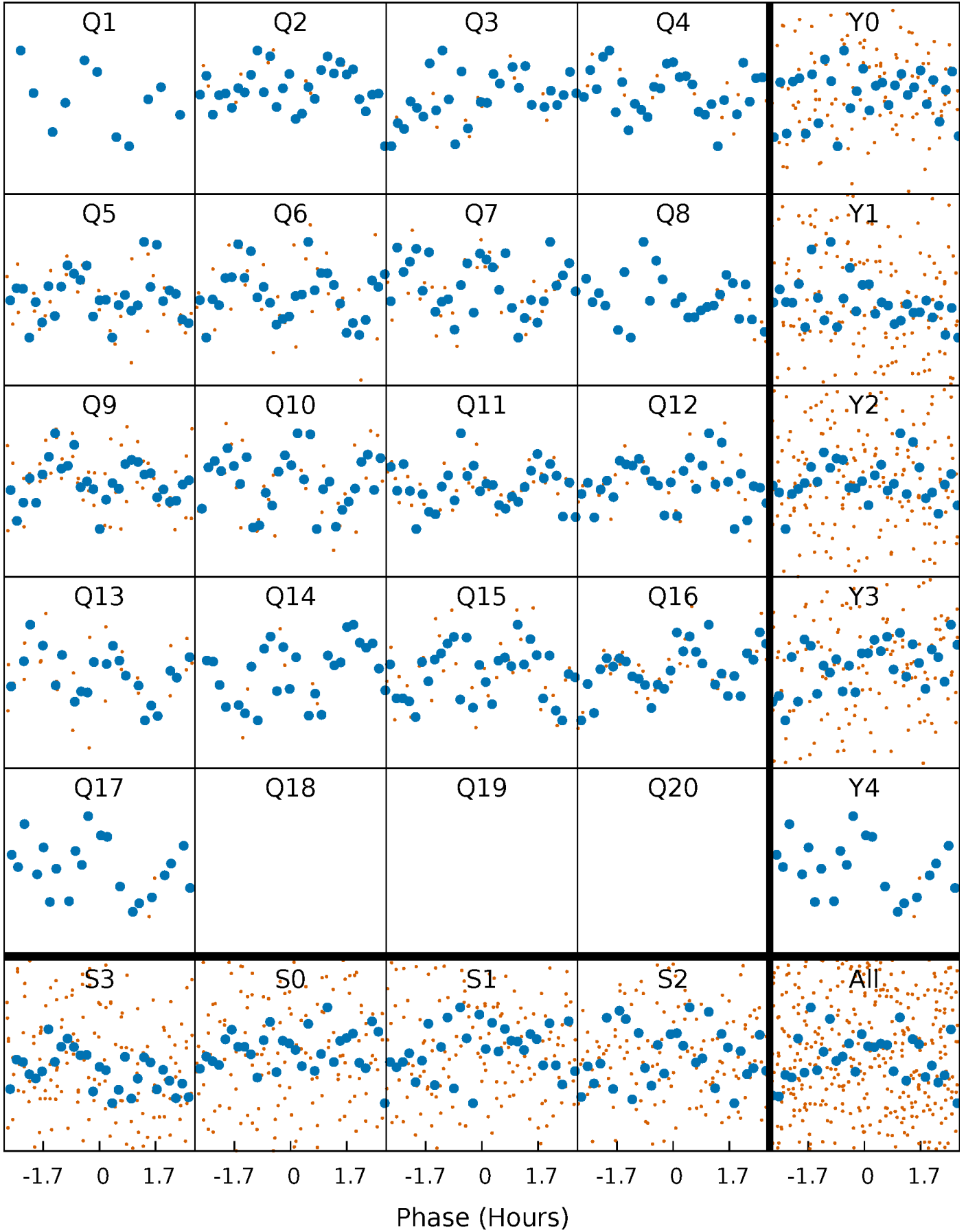


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



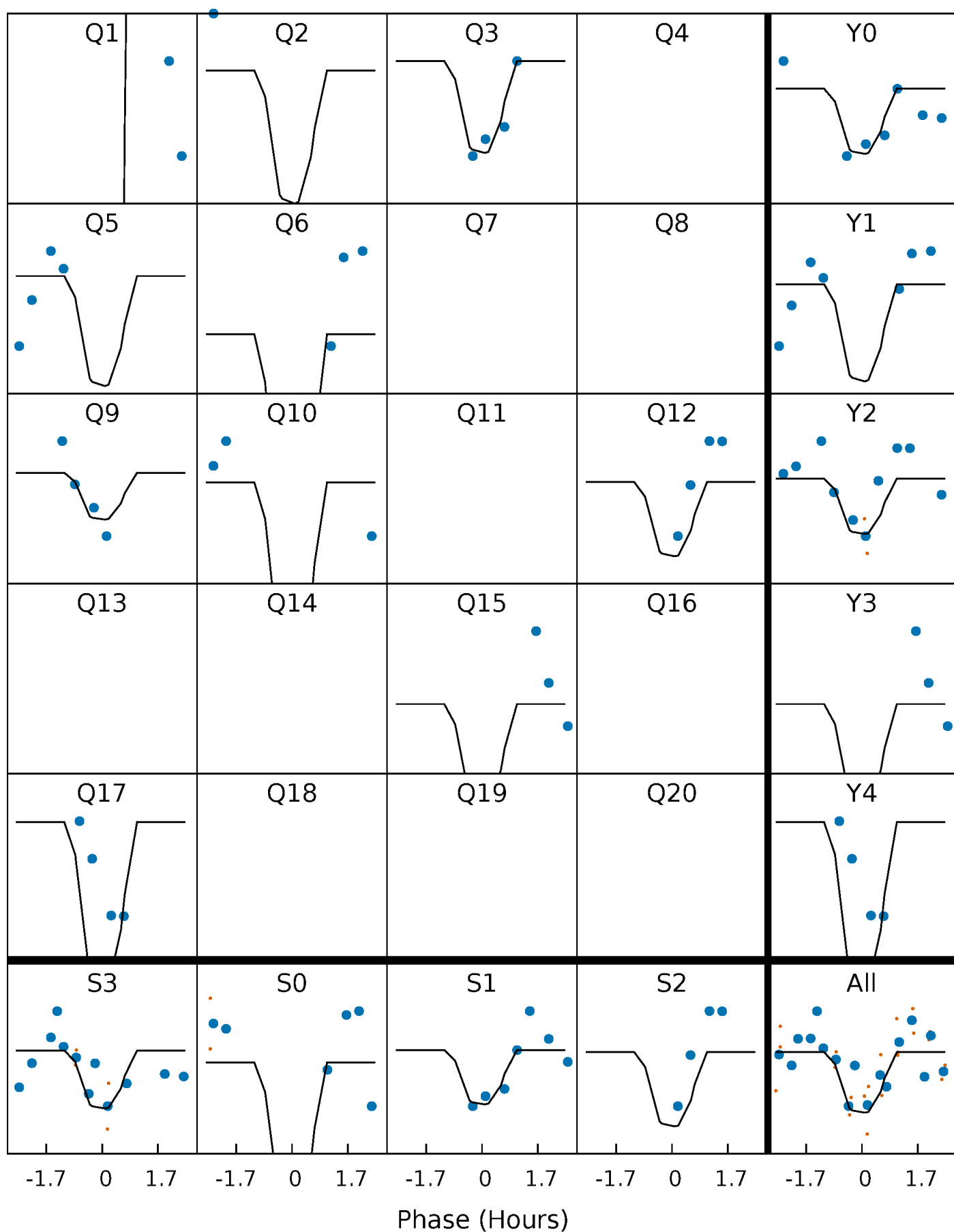
PDC Quarter-Phased Transit Curves

TCE 005726667-05 P= 22.940918 Days $T_0=144.325403$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 005726667-05 P= 22.940918 Days $T_0=144.325403$ (BKJD)

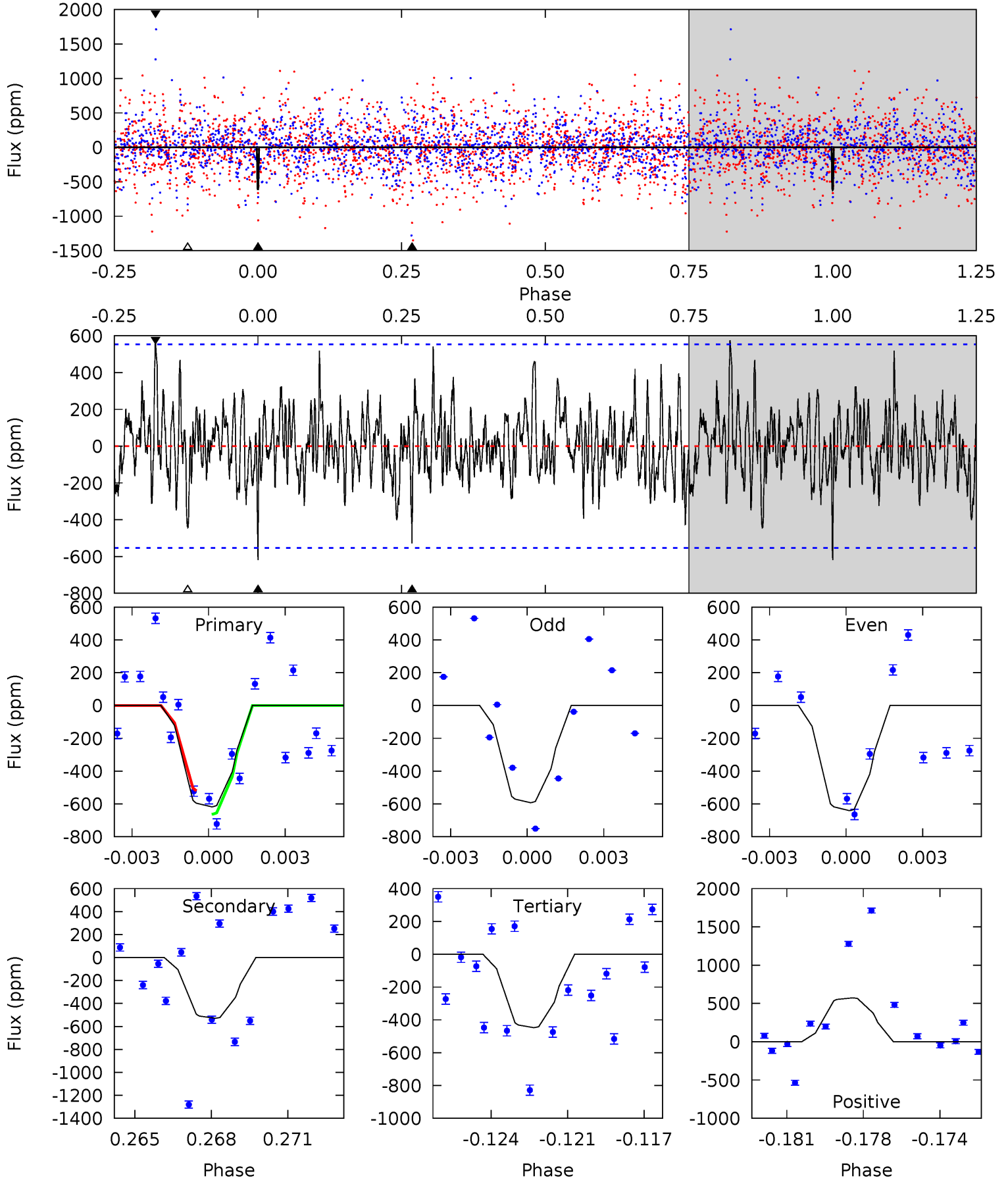


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

005726667-05, $P = 22.940918$ Days, $E = 121.384485$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.84	5.00	4.23	5.42	5.23	2.93	1.48	1.61	0.43	0.77	-0.42	0.22	1.01	0.48	0.63



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 005726667

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7968^{+63}_{-87}	$3.712^{+0.270}_{-0.072}$	$-0.020^{+0.200}_{-0.200}$	$3.321^{+0.579}_{-1.074}$	$2.075^{+0.237}_{-0.237}$	$0.080^{+0.142}_{-0.023}$
	+1%/-1%	+7%/-2%	+1000%/-1000%	+17%/-32%	+11%/-11%	+178%/-29%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005726667-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-529 ± 106	$22.21^{+22.25}_{-16.09}$	1954^{+83}_{-150}	4715^{+4277}_{-1086}	24^{+282}_{-18}
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 $A_{obs} \gg 1.0$

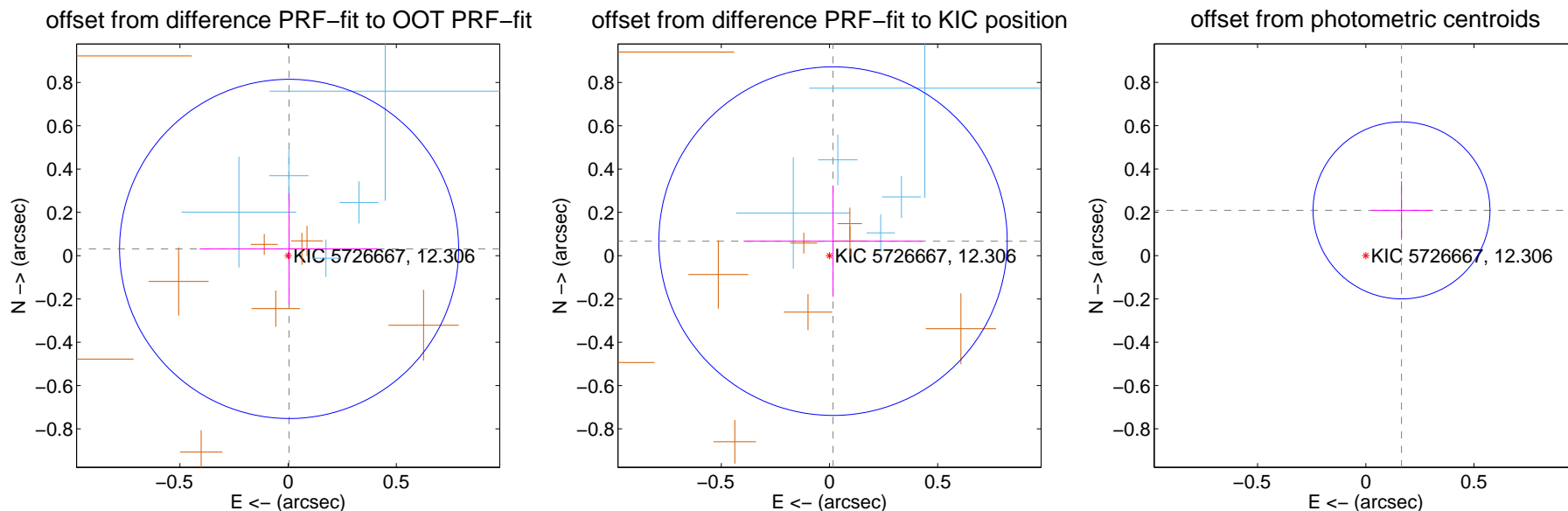
DV Centroid Data

Supplemental centroid analysis for 005726667-05. Kepler magnitude: 12.31. Transit SNR 11.35

There are 6 quarters with good PRF difference image offsets

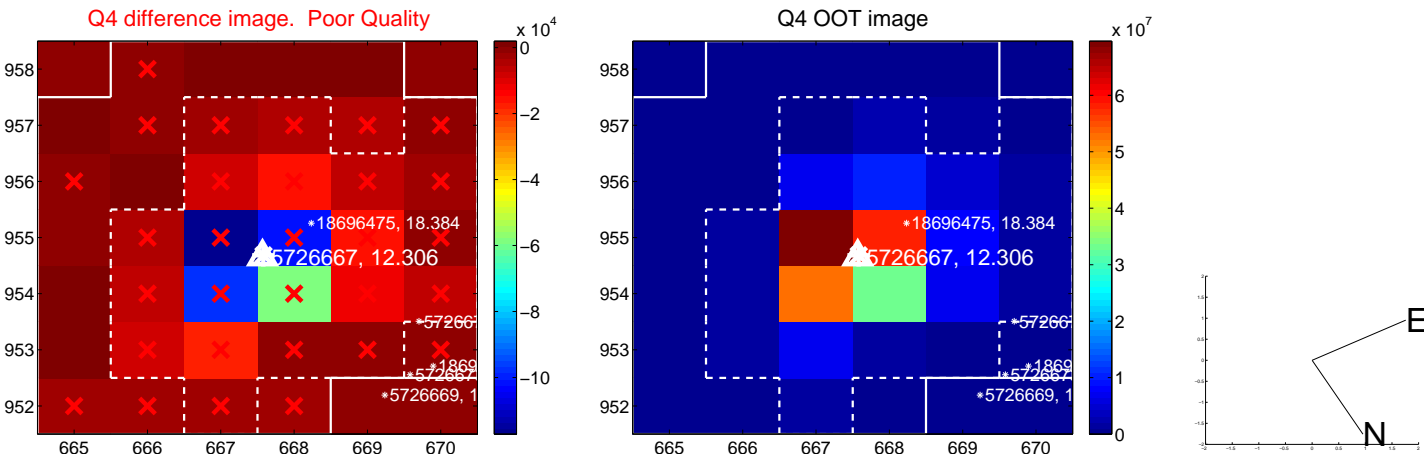
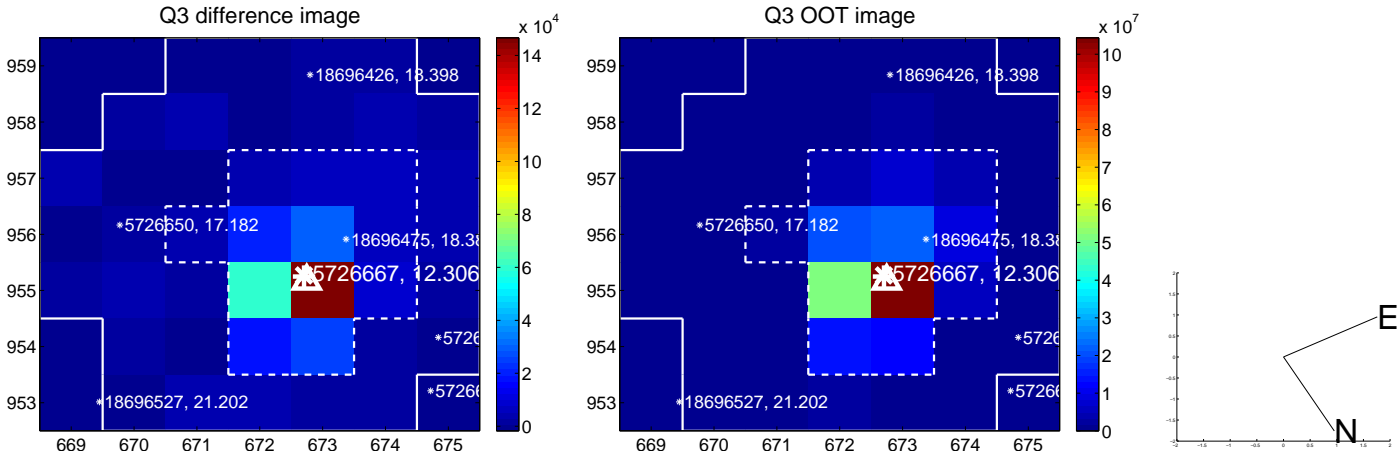
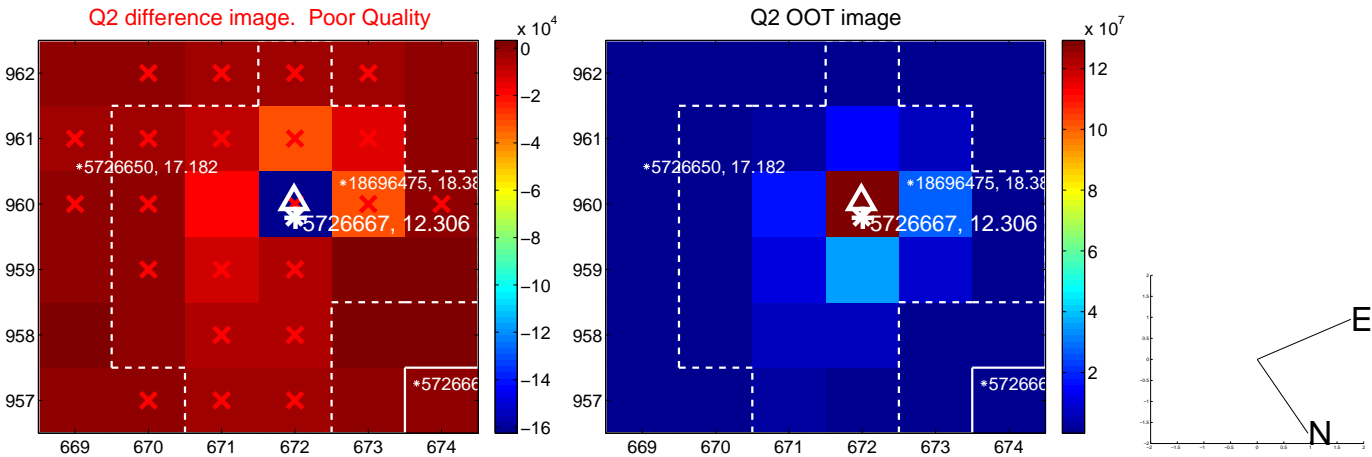
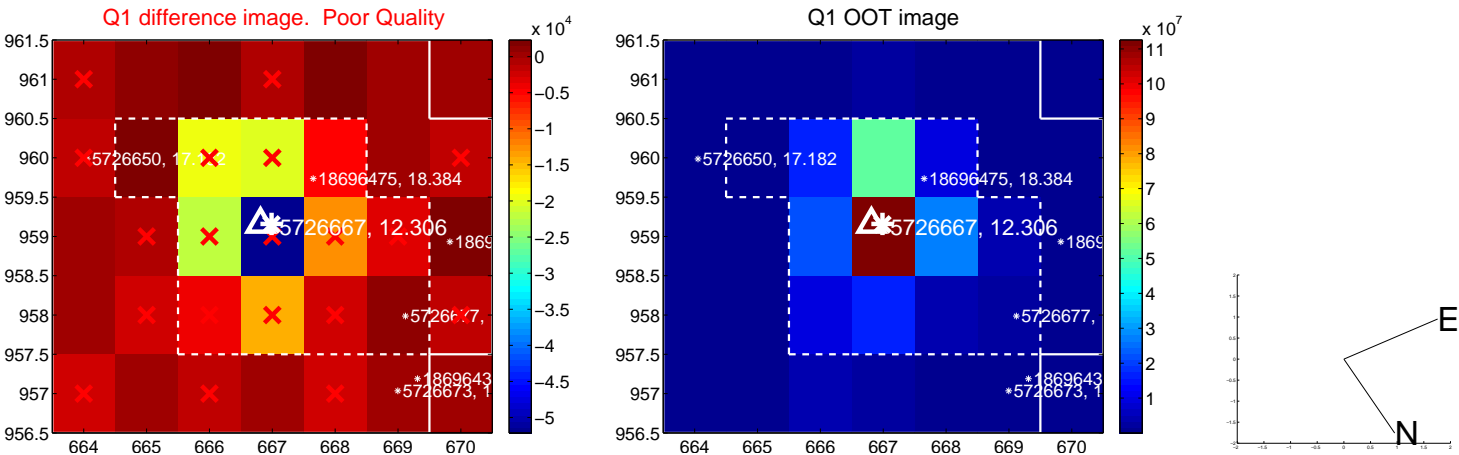
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.031 ± 0.261	0.12	-0.004 ± 0.414	0.031 ± 0.257
PRF-fit source offset from KIC position	0.069 ± 0.268	0.26	-0.016 ± 0.414	0.067 ± 0.257
photometric centroid source offset	0.27 ± 0.14	1.95	-0.17 ± 0.14	0.21 ± 0.13

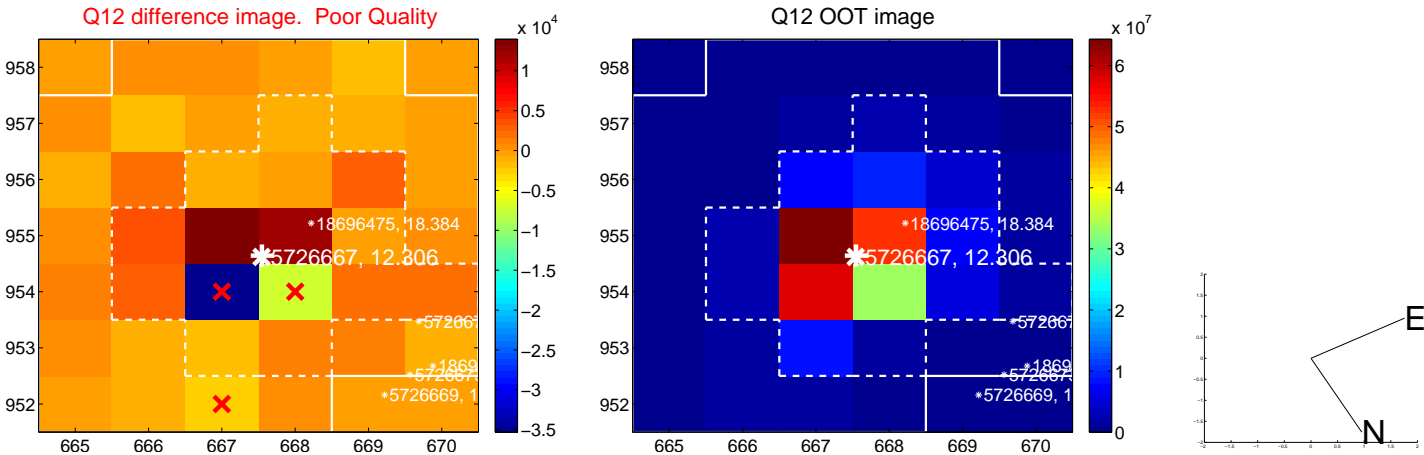
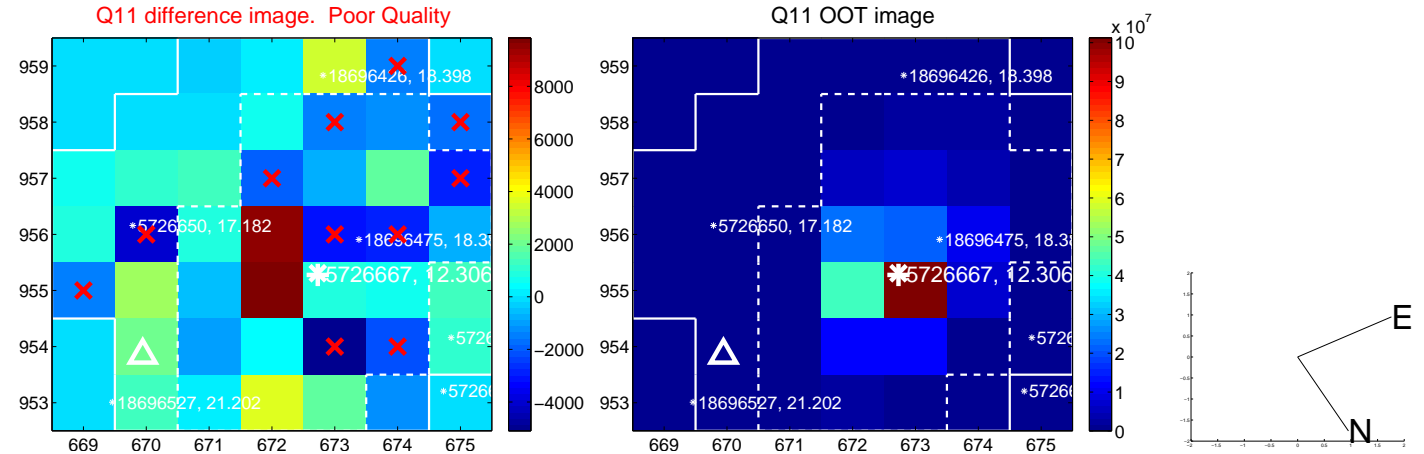
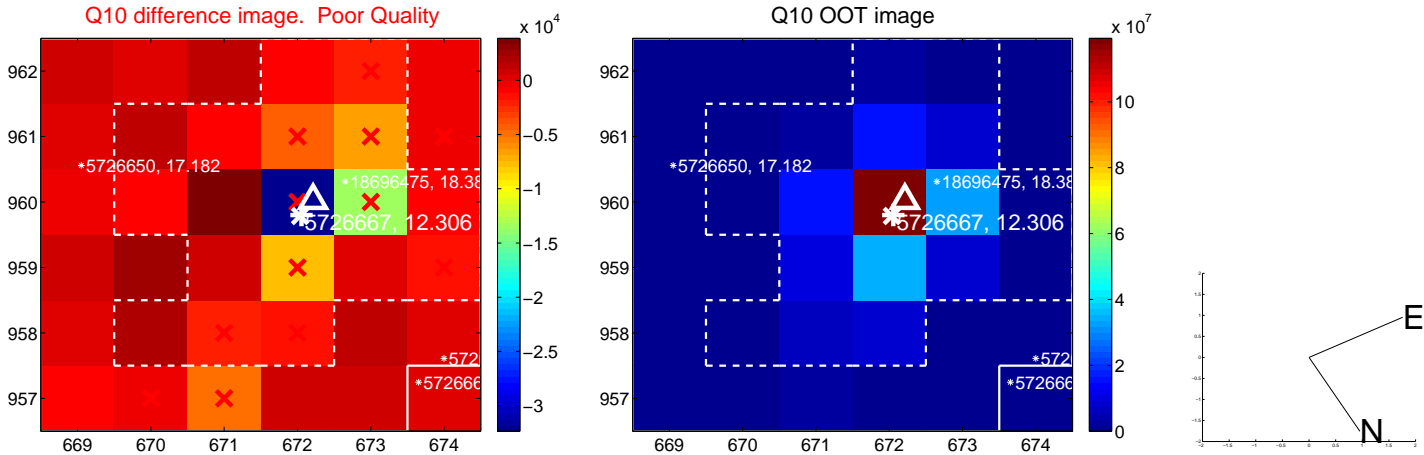
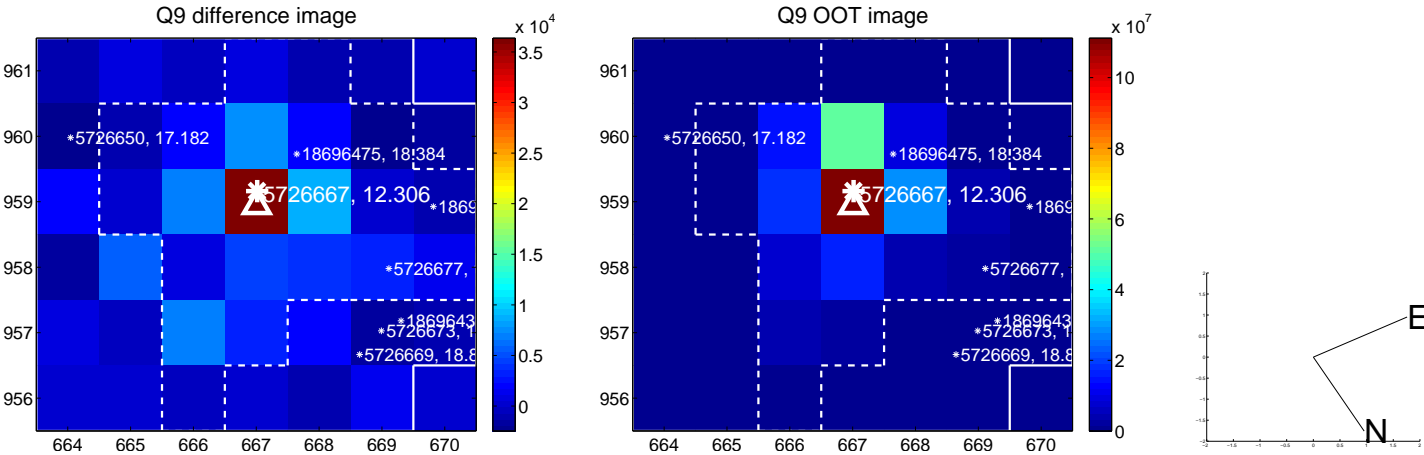


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

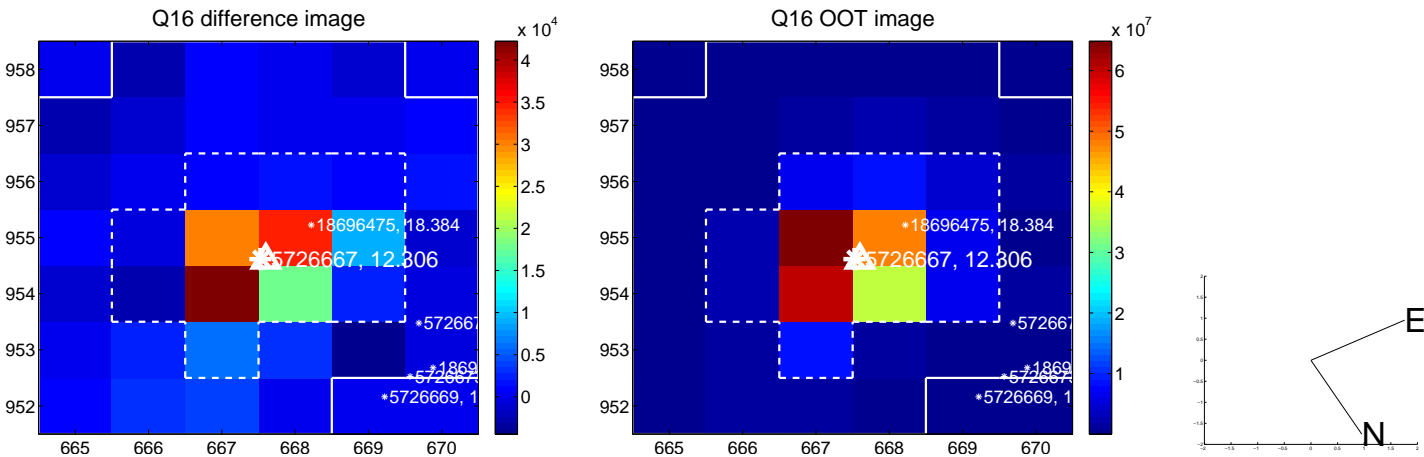
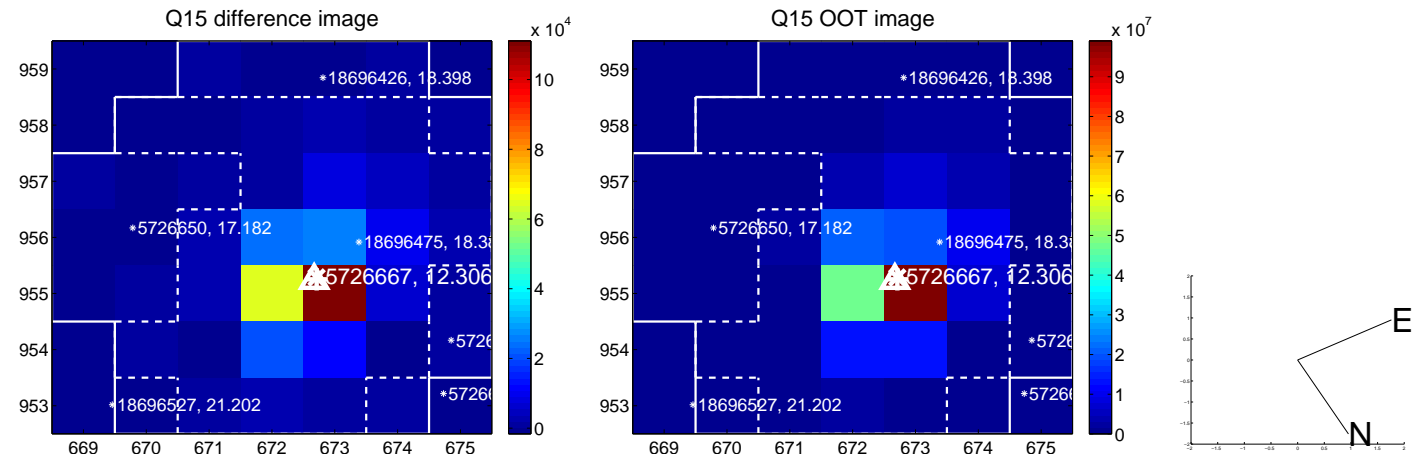
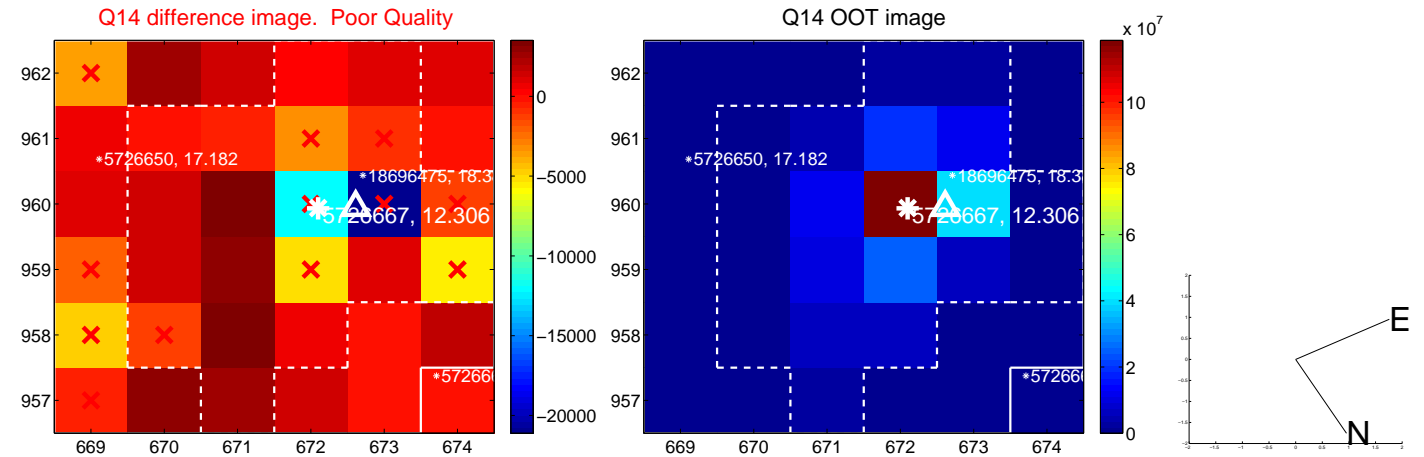
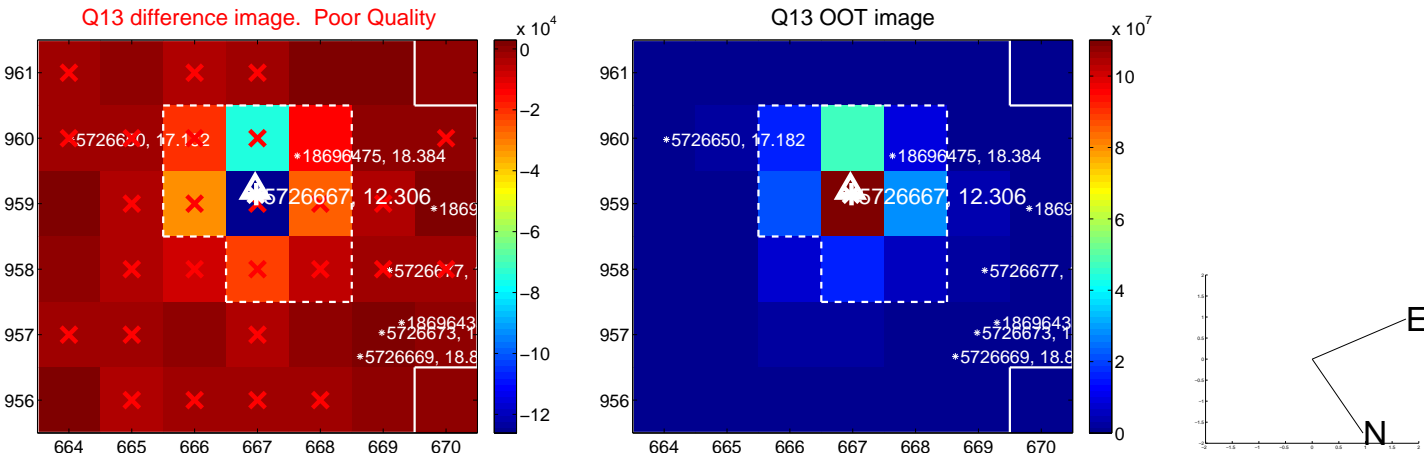
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



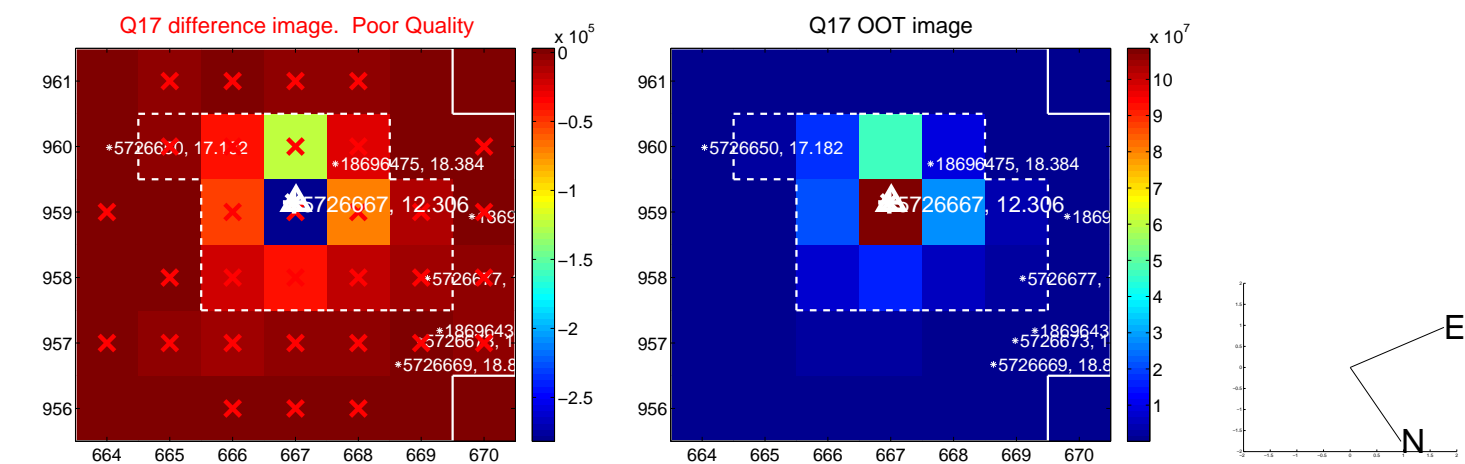
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



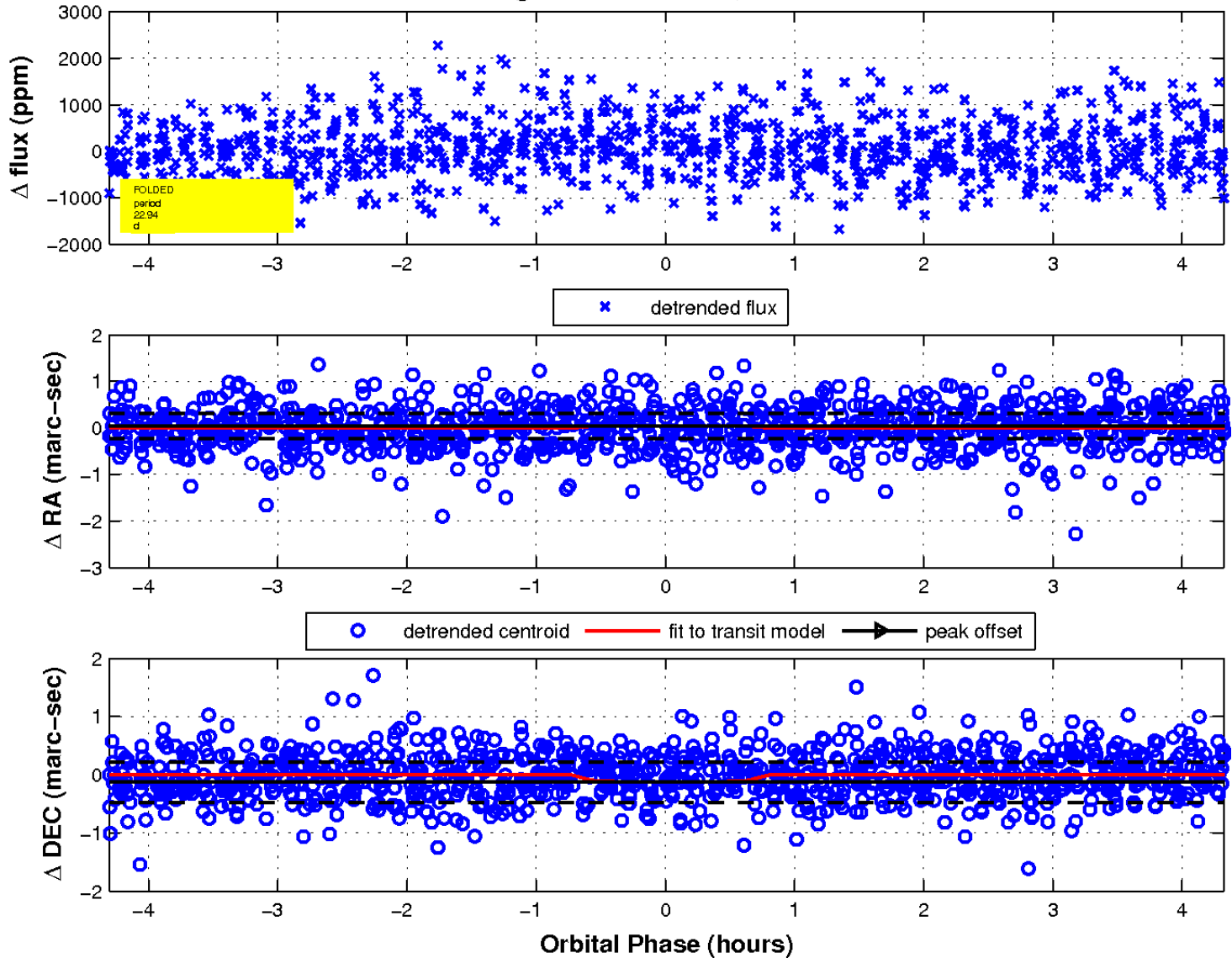
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 5 of 5



UKIRT Image

Declination

