

KIC 007732556

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})
007732556-01	OBS	No	0.613889	132.097489	51.8	3.601	8.5	5.2	0.68	4328	0.48	947.61
007732556-02	OBS	No	68.535028	159.083895	1440.1	5.375	12.7	8.3	0.68	4328	2.66	1.76
007732556-03	OBS	No	33.424355	160.846282	1388.8	3.010	8.6	9.3	0.68	4328	3.51	4.59

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007732556-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
007732556-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
007732556-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS

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

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

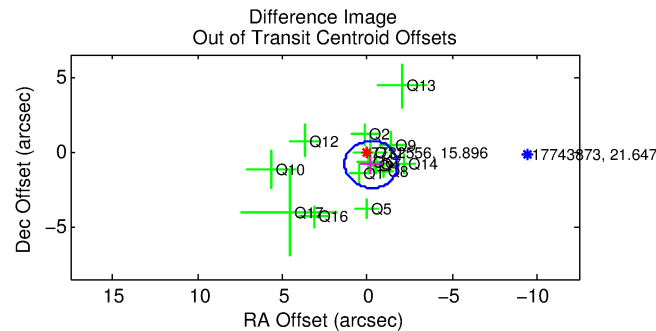
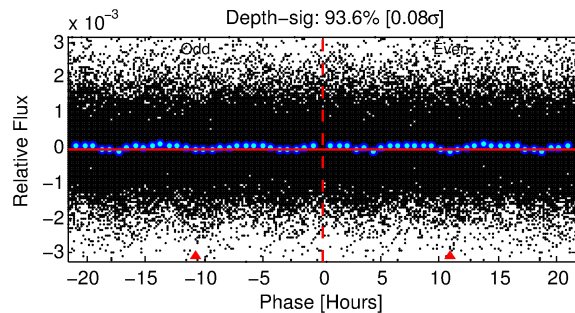
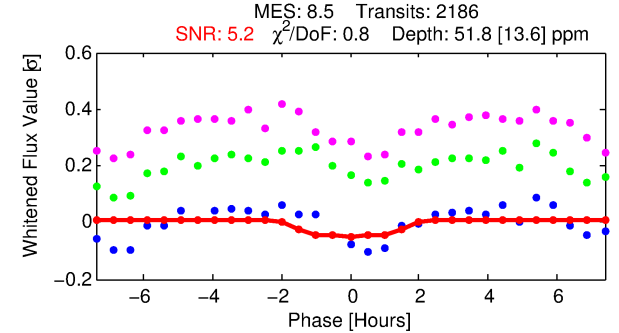
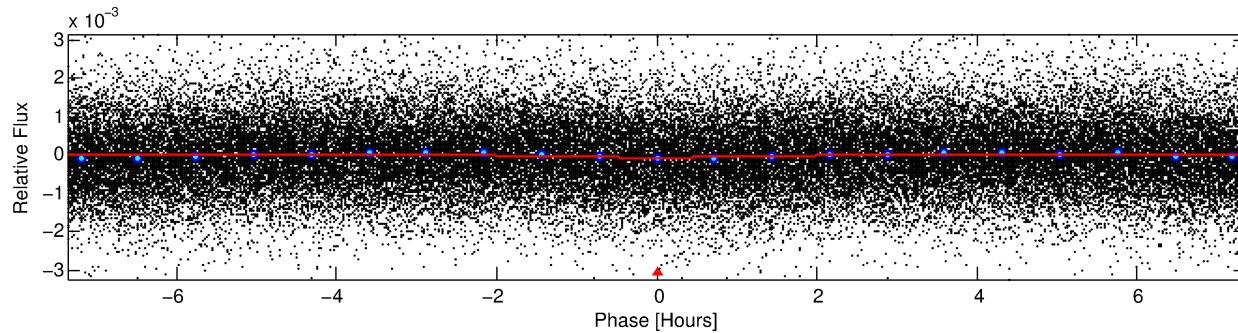
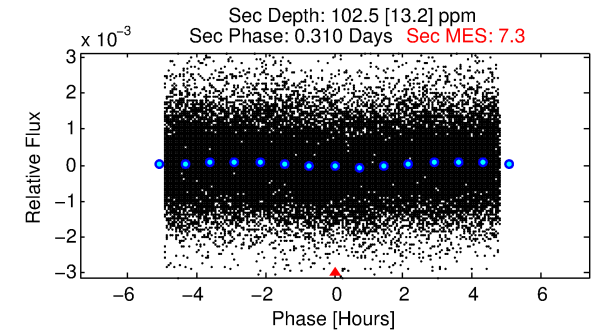
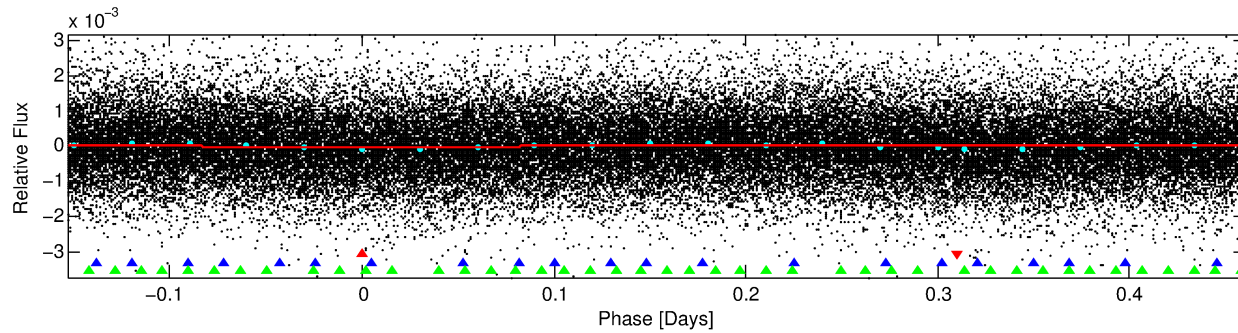
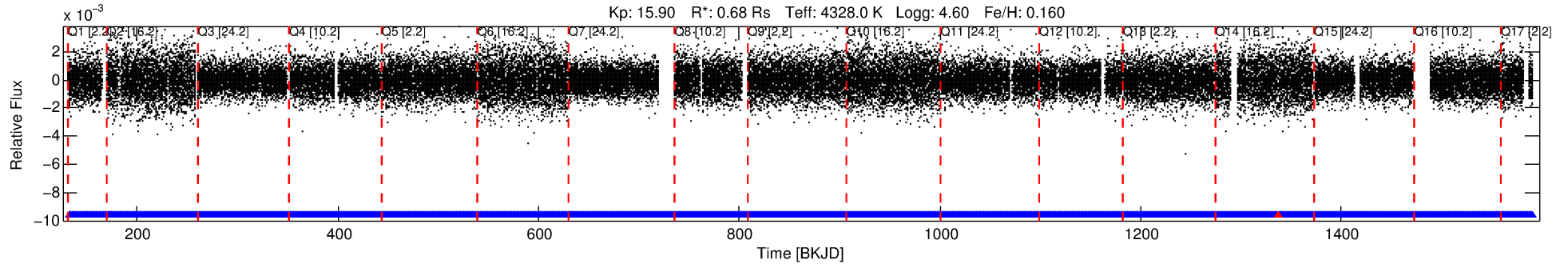
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007732556-01

No Significant Match Found

DV One-Page Summary

KIC: 7732556 Candidate: 1 of 3 Period: 0.614 d



DV Fit Results:

Period = 0.61389 [0.00002] d
Epoch = 132.0975 [0.0076] BKJD
Rp/R* = 0.0064 [0.0095]
a/R* = 1.42 [2.95]
b = 0.30 [13.17]
Seff = 947.61 [152.70]
Teff = 1415 [57] K
Rp = 0.48 [0.71] Re
a = 0.0125 [0.0008] AU
Ag = 38.58 [115.39] [0.33σ]
Teffp = 5451 [4079] K [0.99σ]

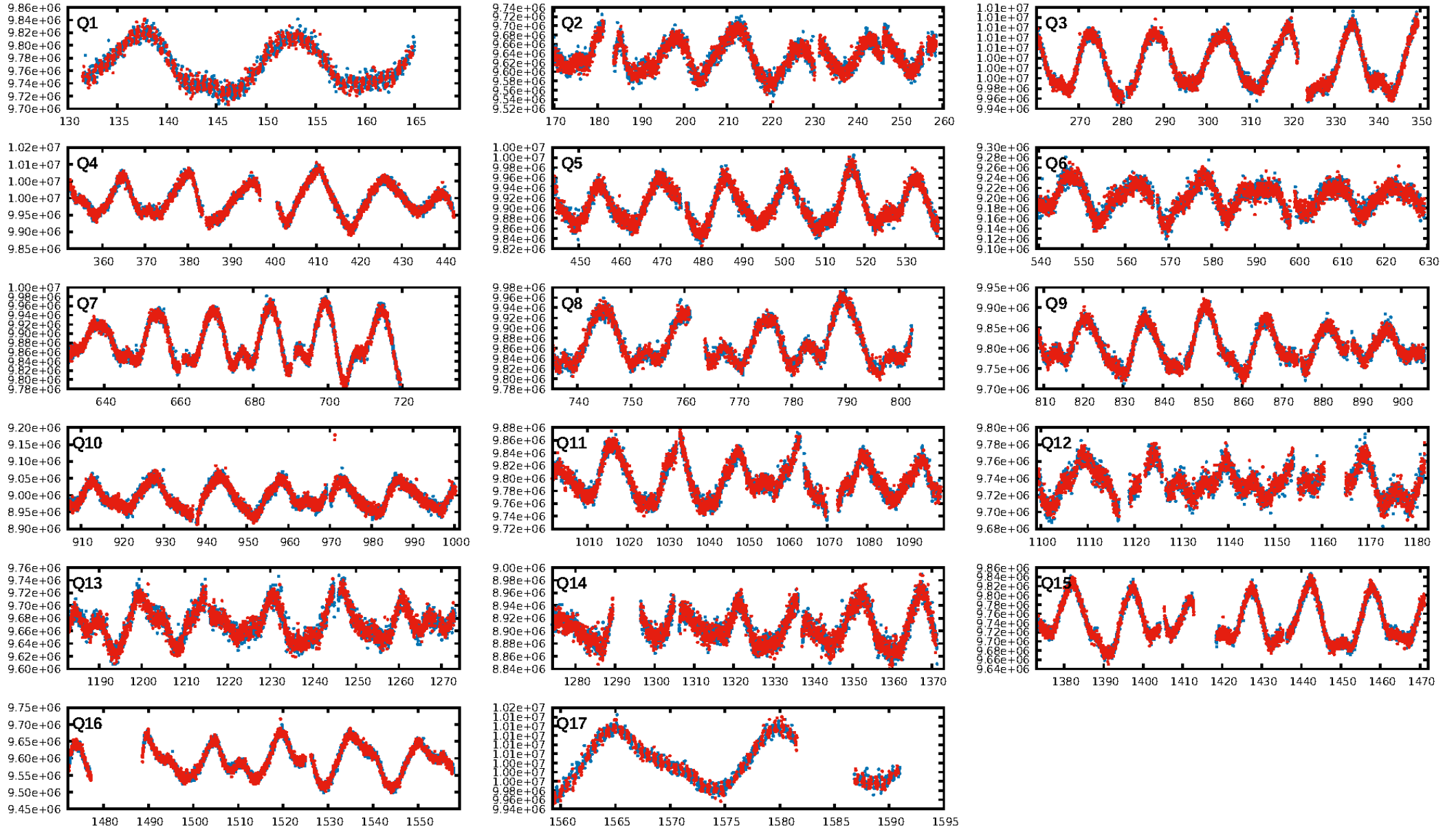
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [167.79σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.40e-12
RollingBand-fgt: 1.00 [2086/2087]
GhostDiagnostic-chr: 0.8344
Centroid-sig: 0.2%
Centroid-so: 5.631 arcsec [2.25σ]
OotOffset-rm: 0.888 arcsec [1.70σ]
KicOffset-rm: 0.797 arcsec [1.67σ]
OotOffset-st: 4/2/4/5 [15]
KicOffset-st: 4/2/4/5 [15]
DiffImageQuality-fgm: 0.40 [6/15]
DiffImageOverlap-fno: 1.00 [17/17]

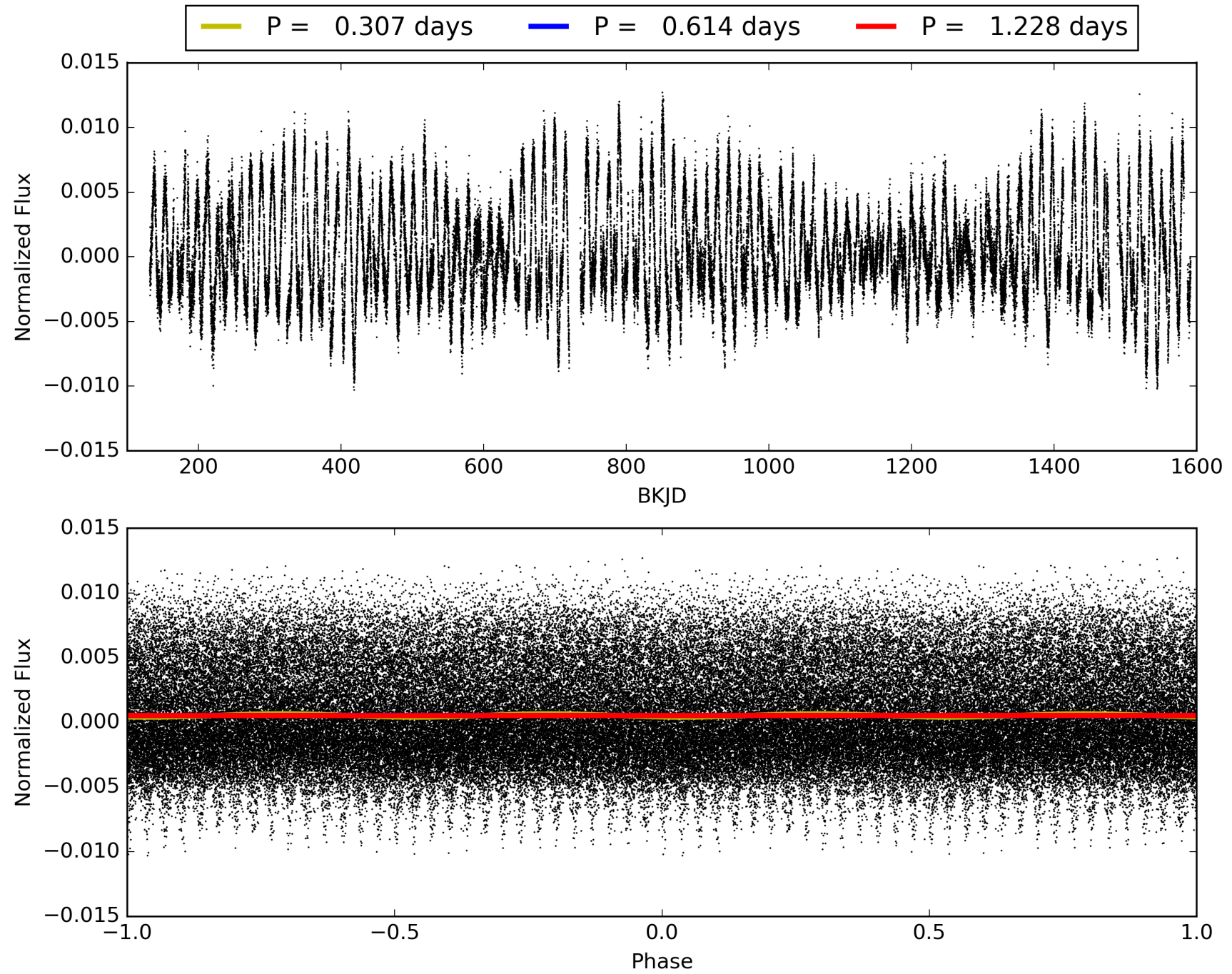
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007732556-01, PDC Light Curves

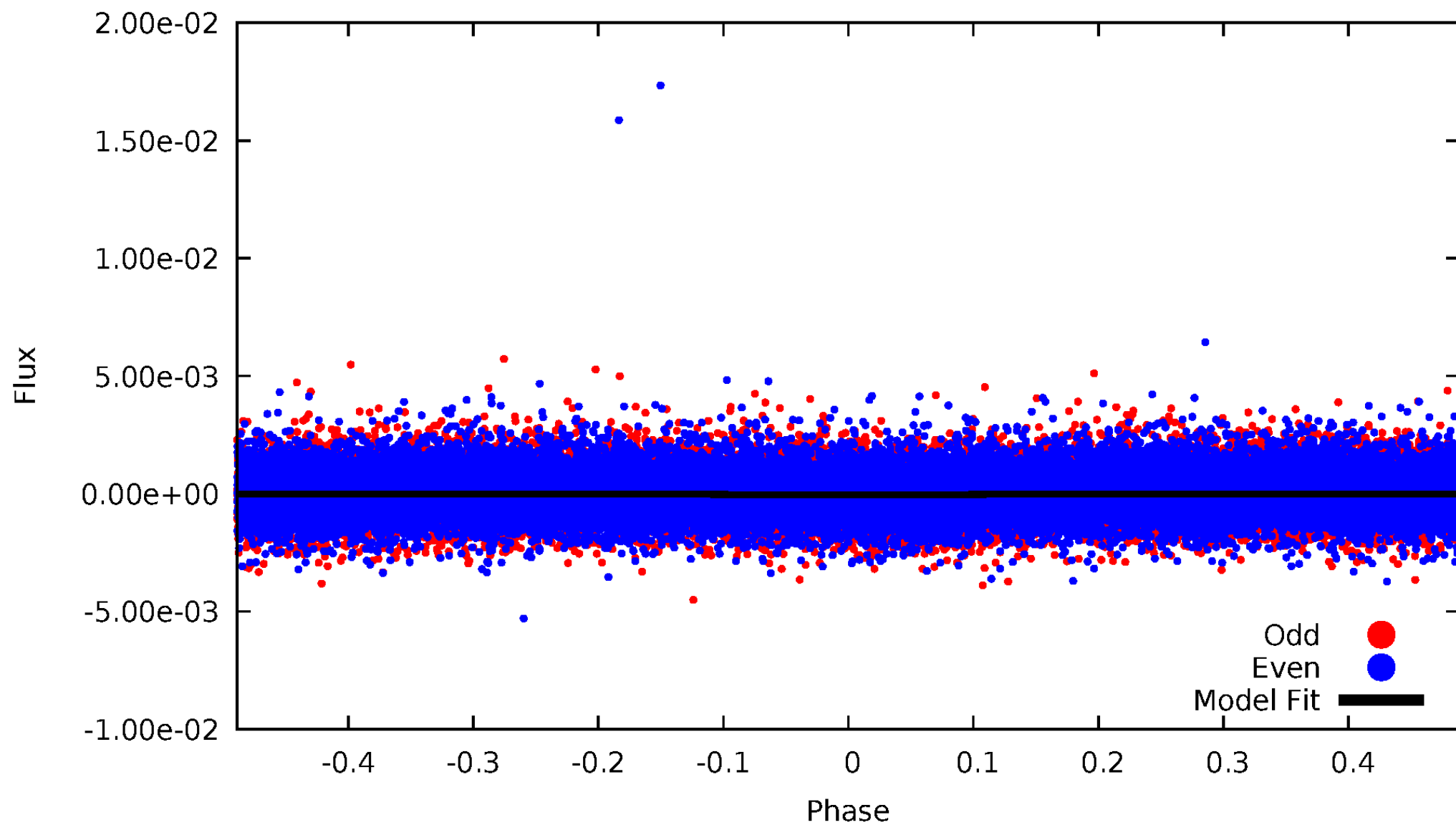


TCE 007732556-01



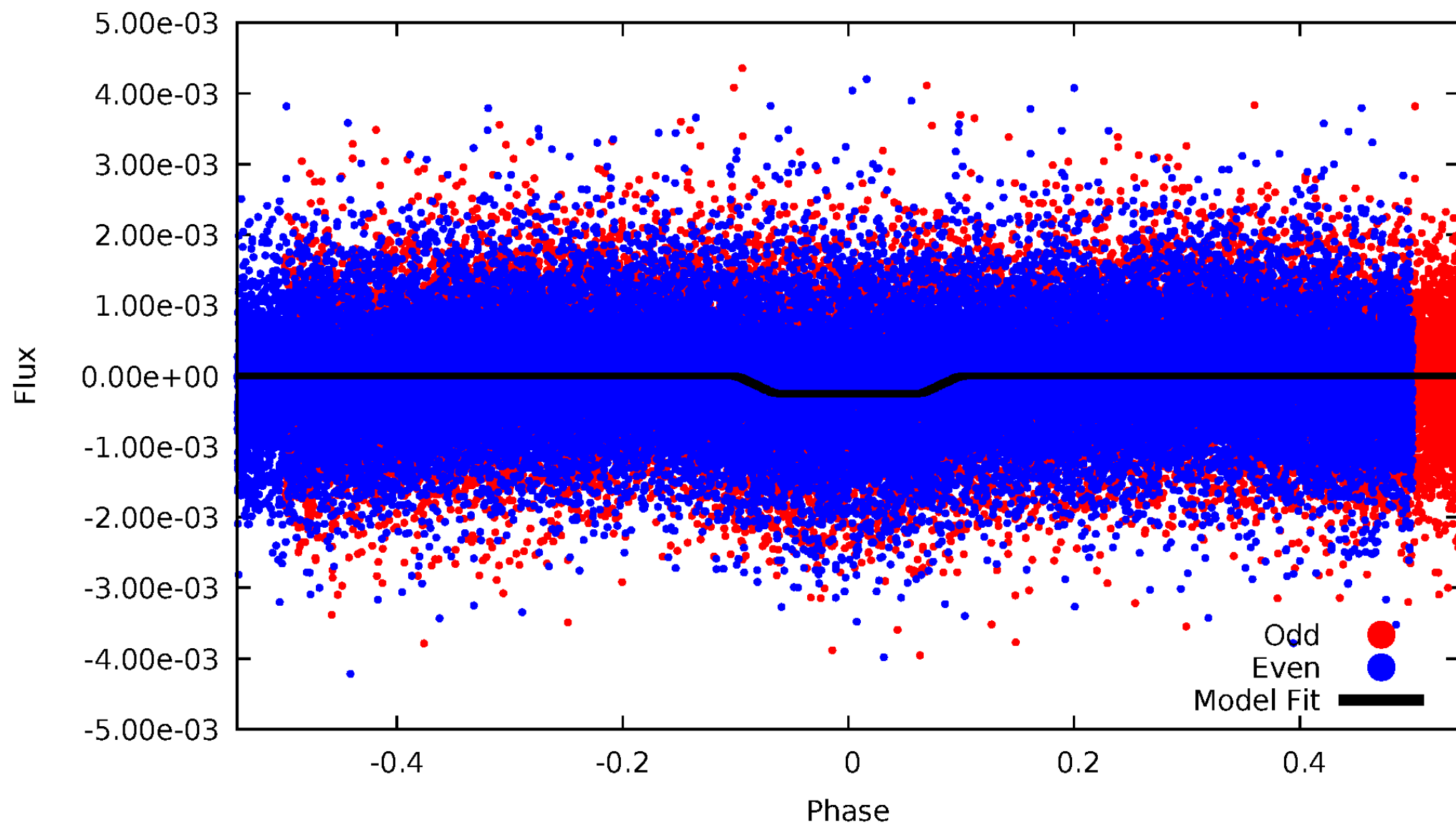
DV Odd/Even

TCE 007732556-01



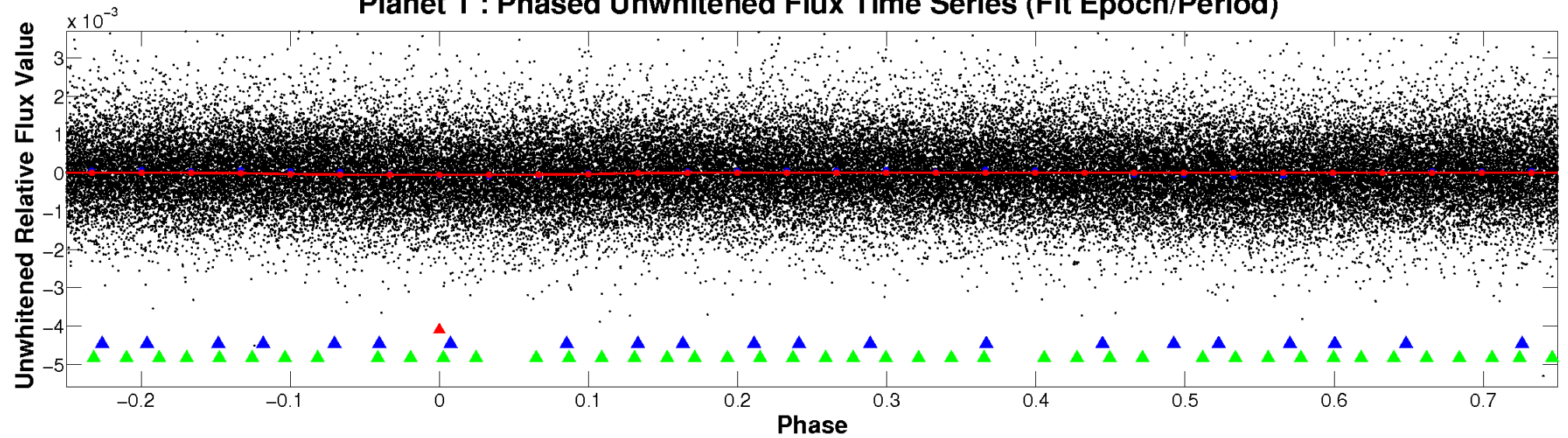
ALT Odd/Even

TCE 007732556-01

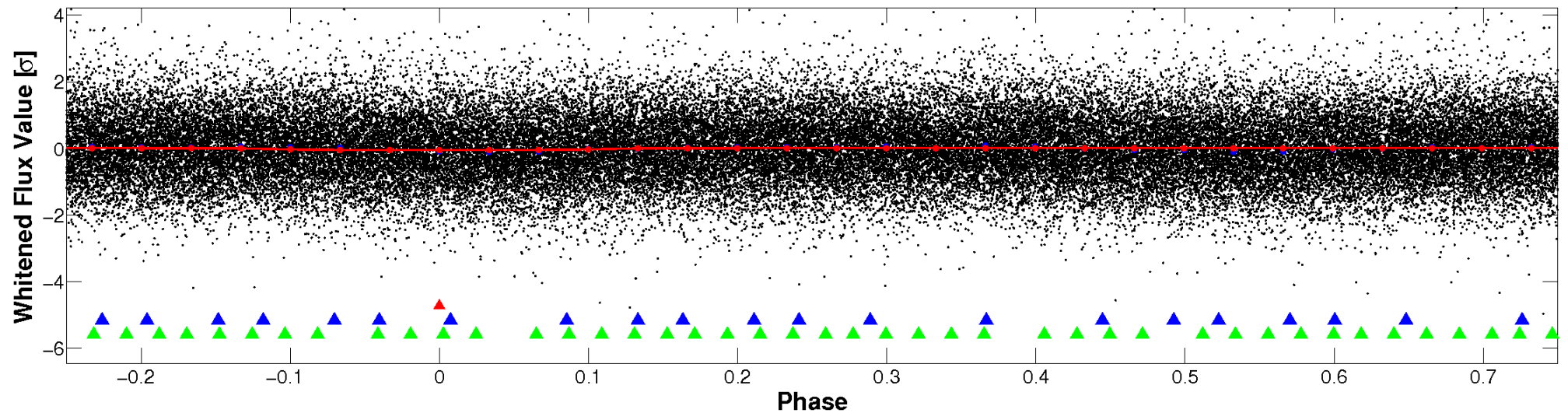


Non-Whitened Vs. Whitened Light Curve

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

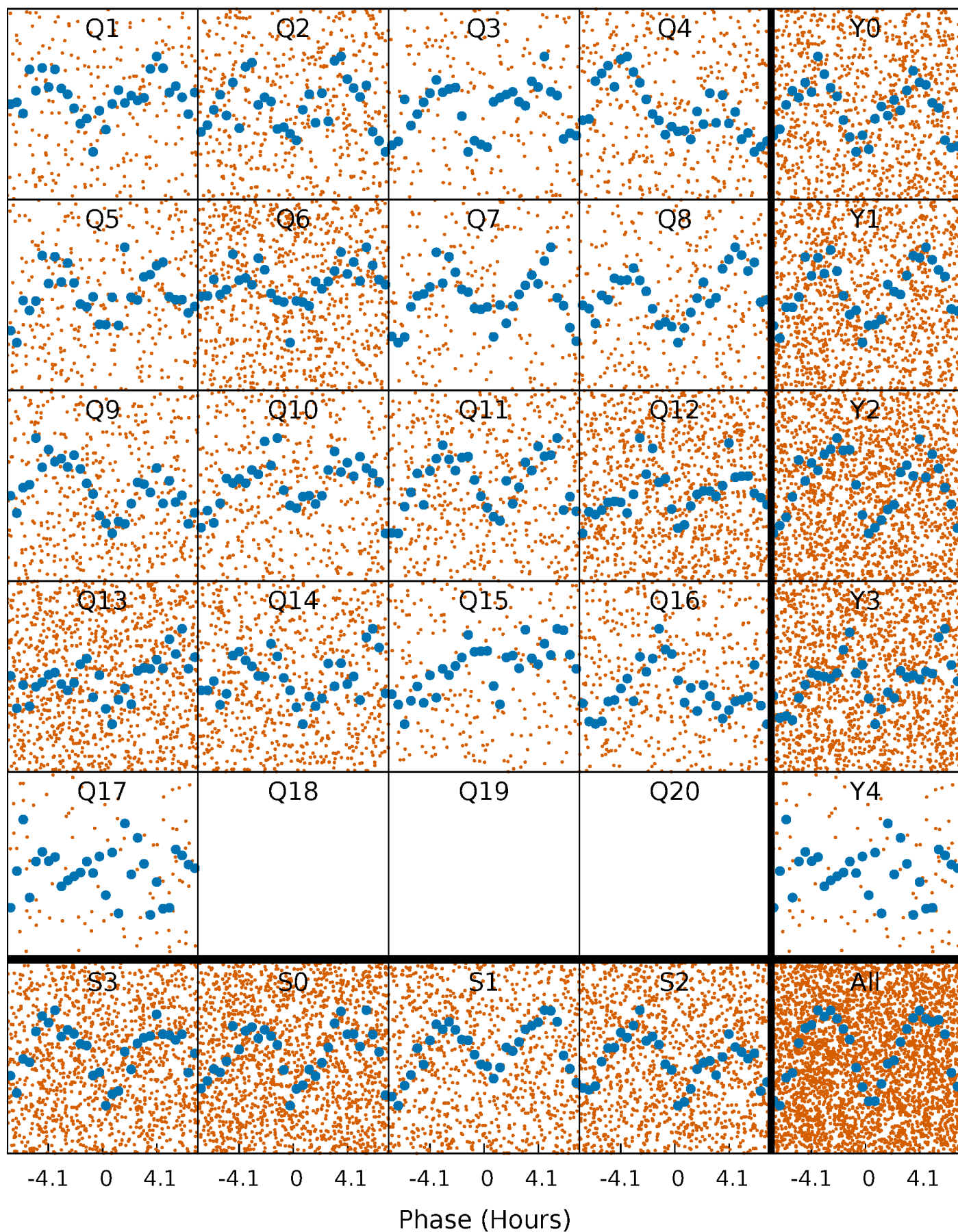


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



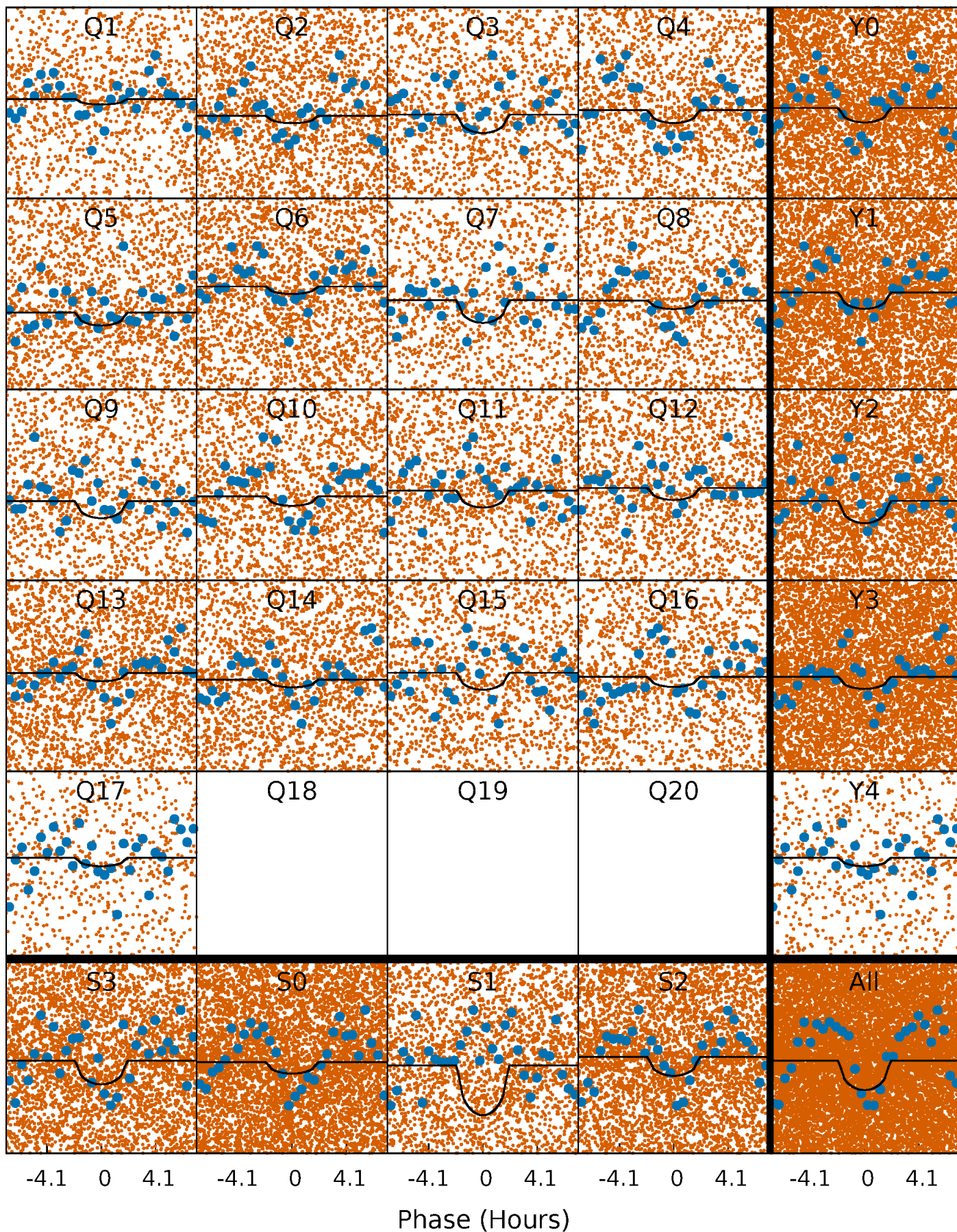
PDC Quarter-Phased Transit Curves

TCE 007732556-01 P= 0.613889 Days $T_0=132.097489$ (BKJD)



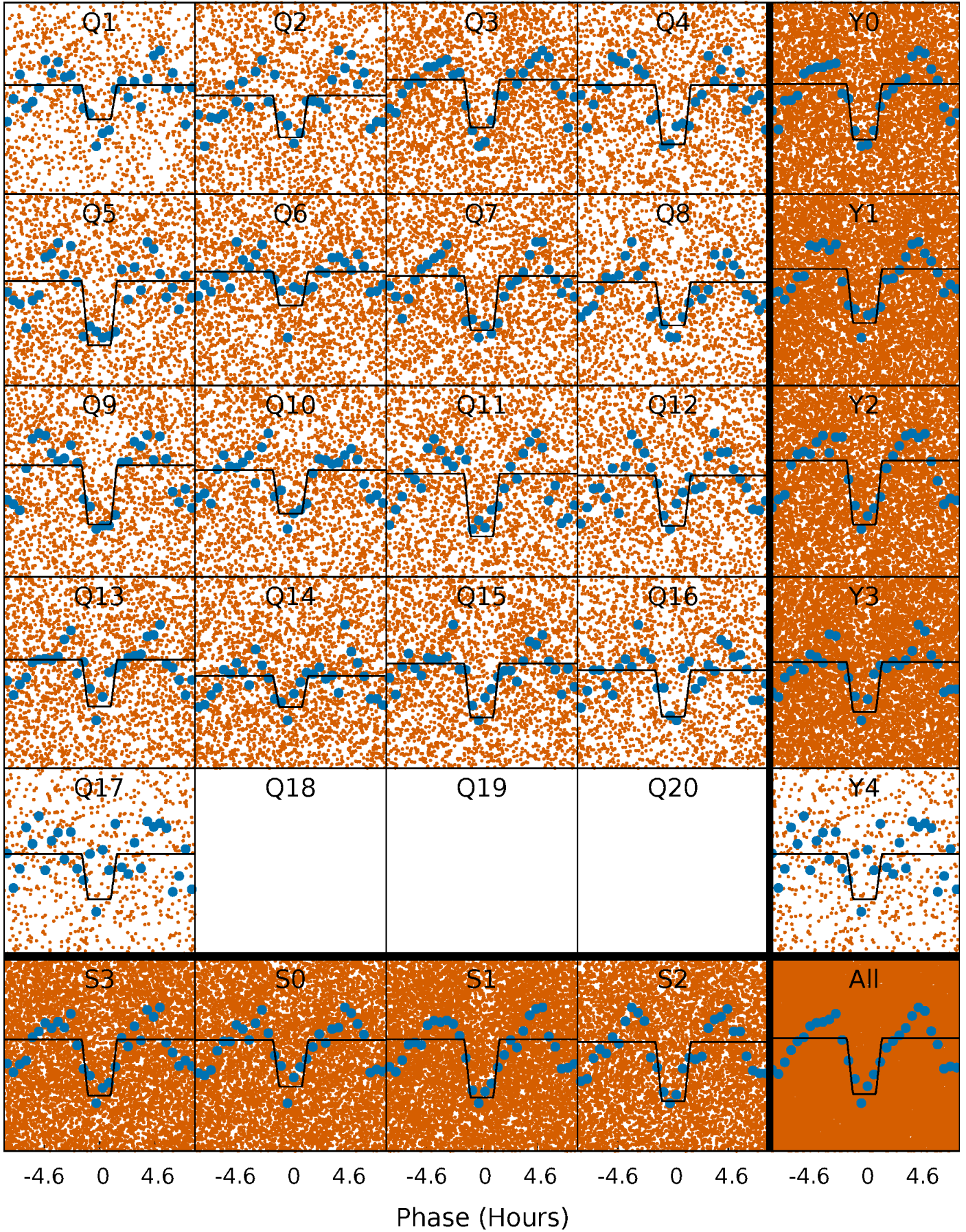
DV Quarter-Phased Transit Curves

TCE 007732556-01 P= 0.613889 Days $T_0=132.097489$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

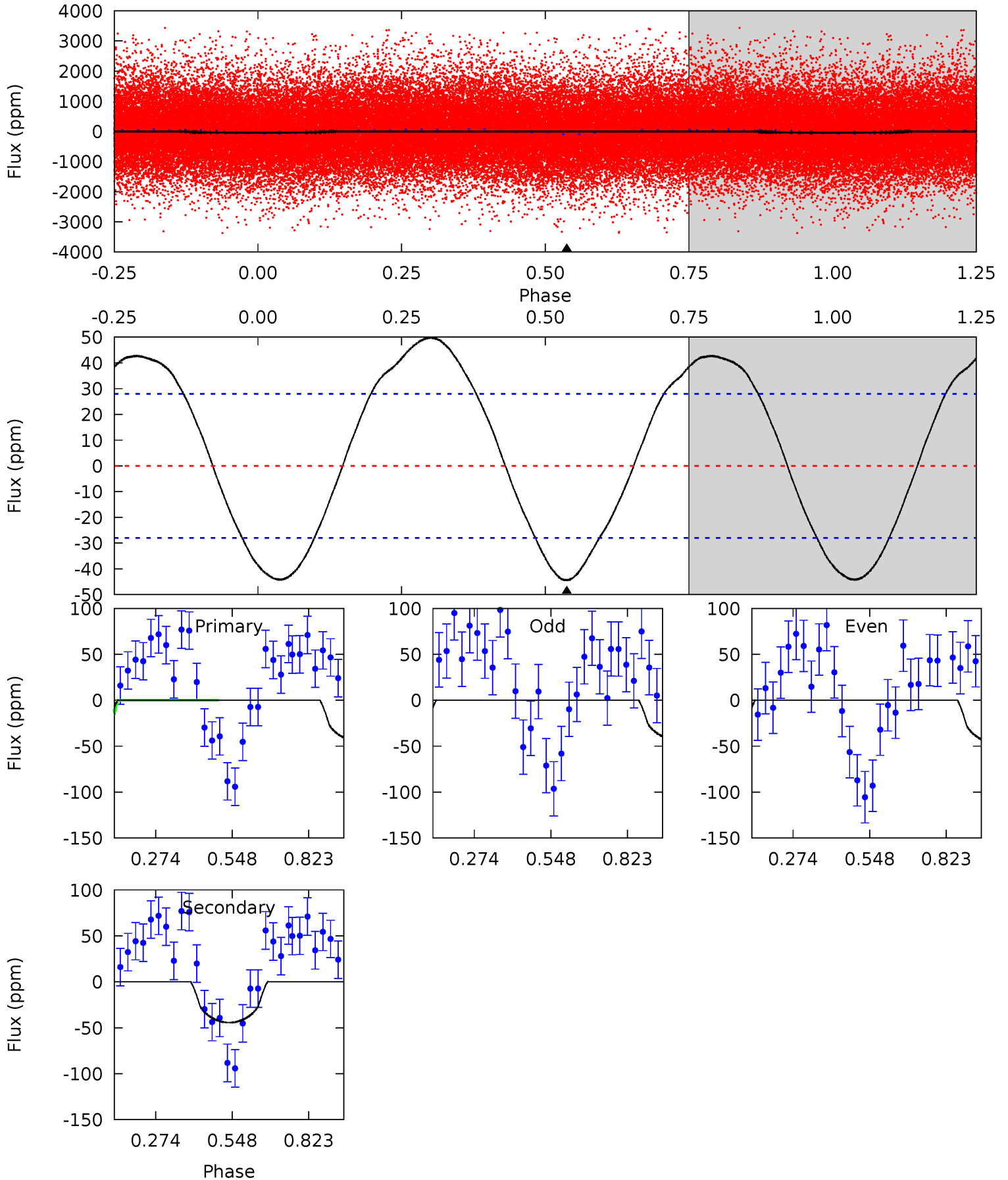
TCE 007732556-01 P= 0.613931 Days $T_0=132.066651$ (BKJD)



DV Model-Shift Uniqueness Test

007732556-01, P = 0.613889 Days, E = 131.483600 Days

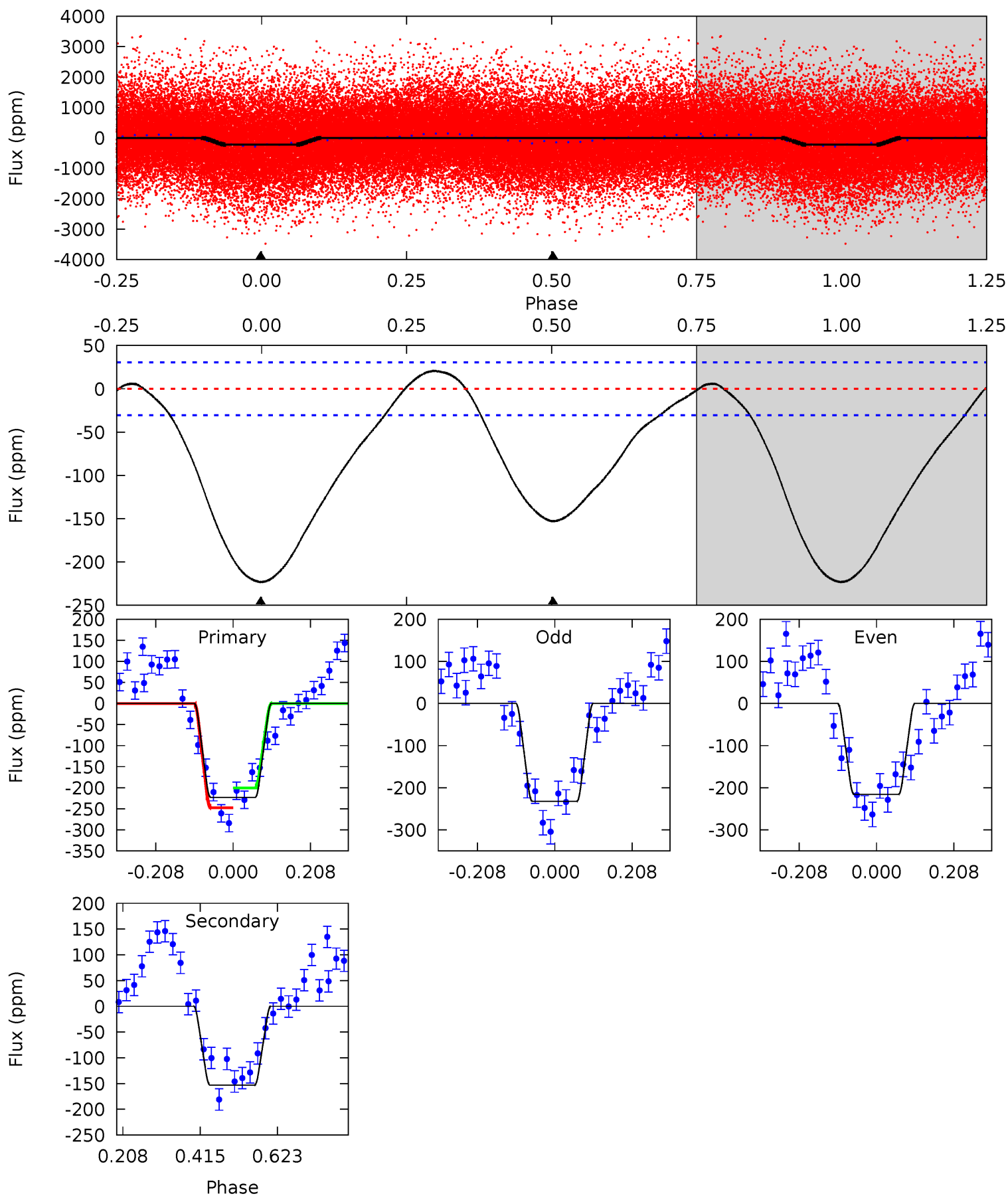
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.91	6.91	0	0	4.35	1.09	4.76	6.91	6.91	6.91	6.91	0.28	1.52	0.53	4.72



Alt Model-Shift Uniqueness Test

007732556-01, P = 0.613931 Days, E = 131.452720 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
32.2	22.1	0	0	4.41	1.26	1.98	32.2	32.2	22.1	22.1	1.22	0.99	0.08	3.42



Stellar Parameters For KIC 007732556

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4328^{+129}_{-142}	$4.603^{+0.049}_{-0.017}$	$0.160^{+0.250}_{-0.300}$	$0.684^{+0.028}_{-0.057}$	$0.683^{+0.047}_{-0.057}$	$3.010^{+0.689}_{-0.238}$
	+3%/-3%	+1%/-0%	+156%/-188%	+4%/-8%	+7%/-8%	+23%/-8%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007732556-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-44 ± 6	$0.69^{+0.60}_{-0.48}$	1962^{+63}_{-68}	3771^{+2436}_{-702}	$7.885^{+84.902}_{-5.639}$
Alt.	-153 ± 7	$1.24^{+0.67}_{-0.67}$	1964^{+65}_{-68}	3860^{+1341}_{-558}	$8.723^{+31.190}_{-5.096}$

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

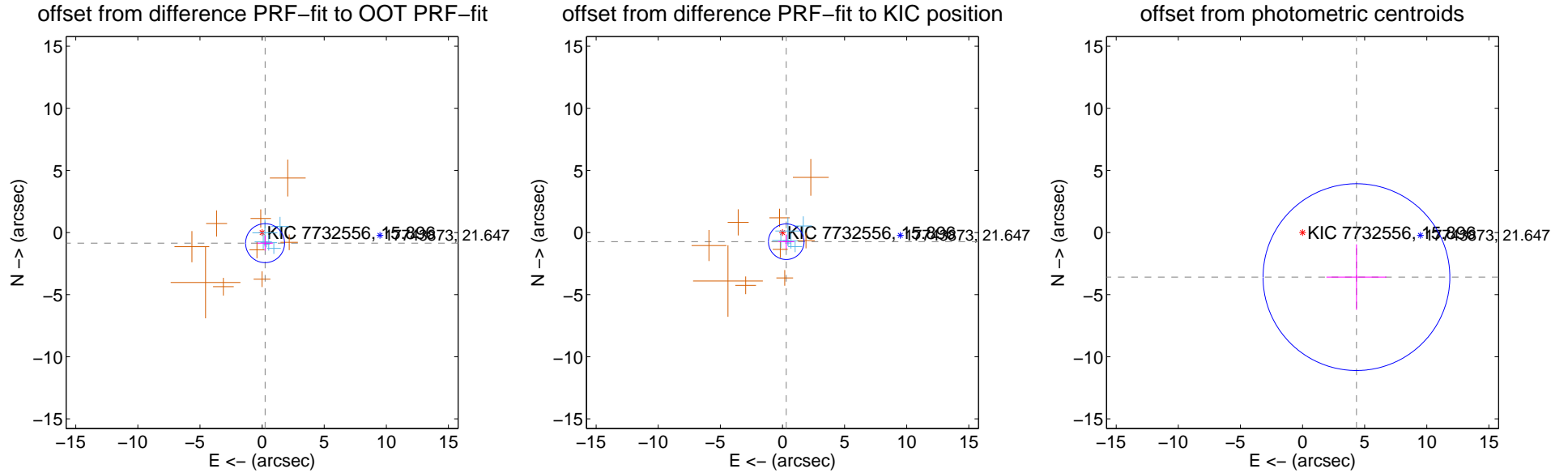
DV Centroid Data

Supplemental centroid analysis for 007732556-01. Kepler magnitude: 15.90. Transit SNR 5.24

There are 6 quarters with good PRF difference image offsets

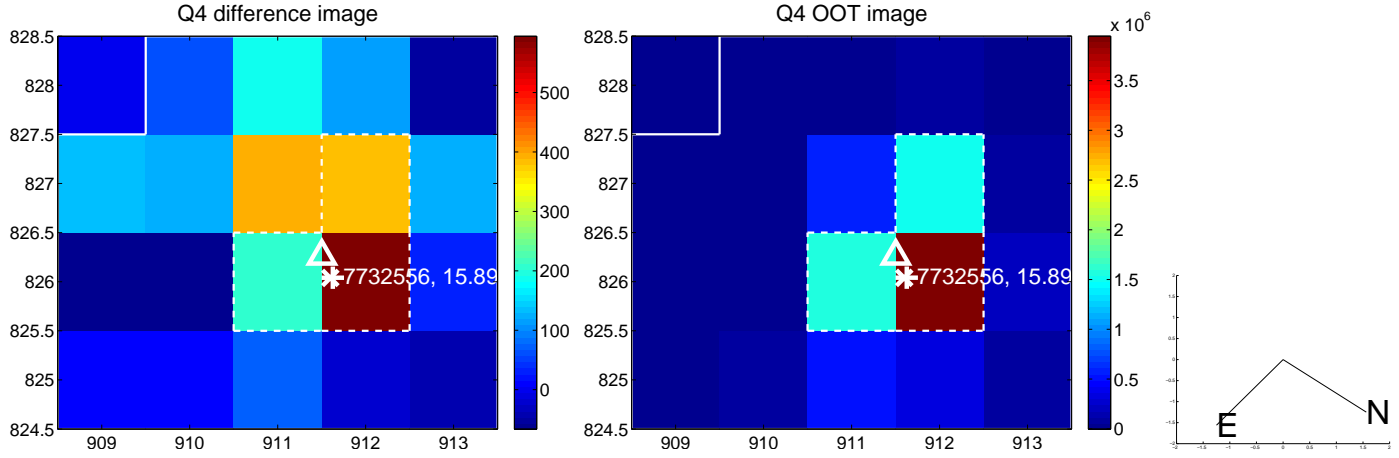
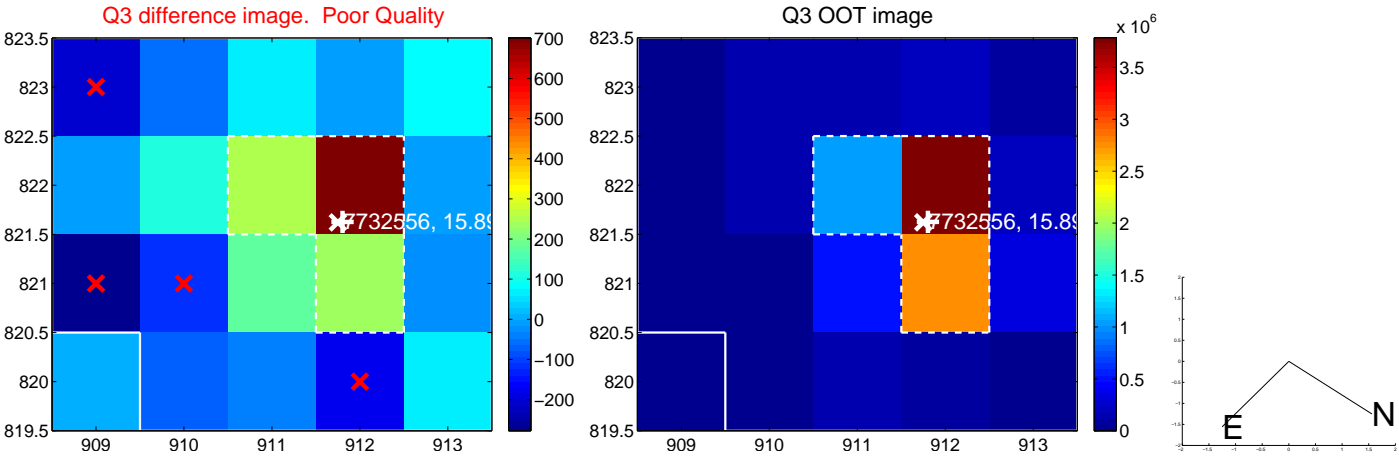
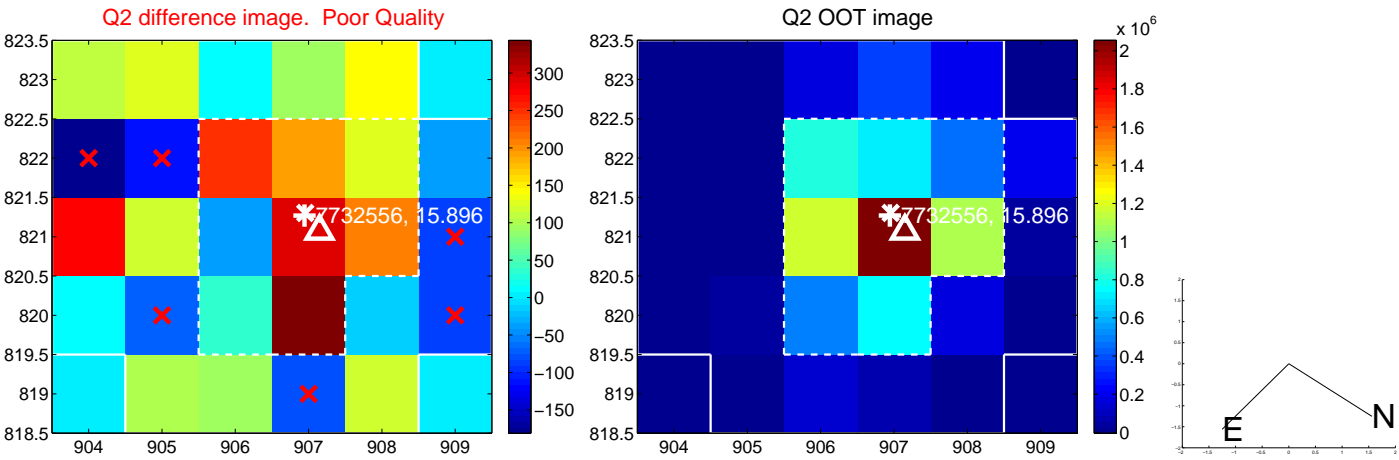
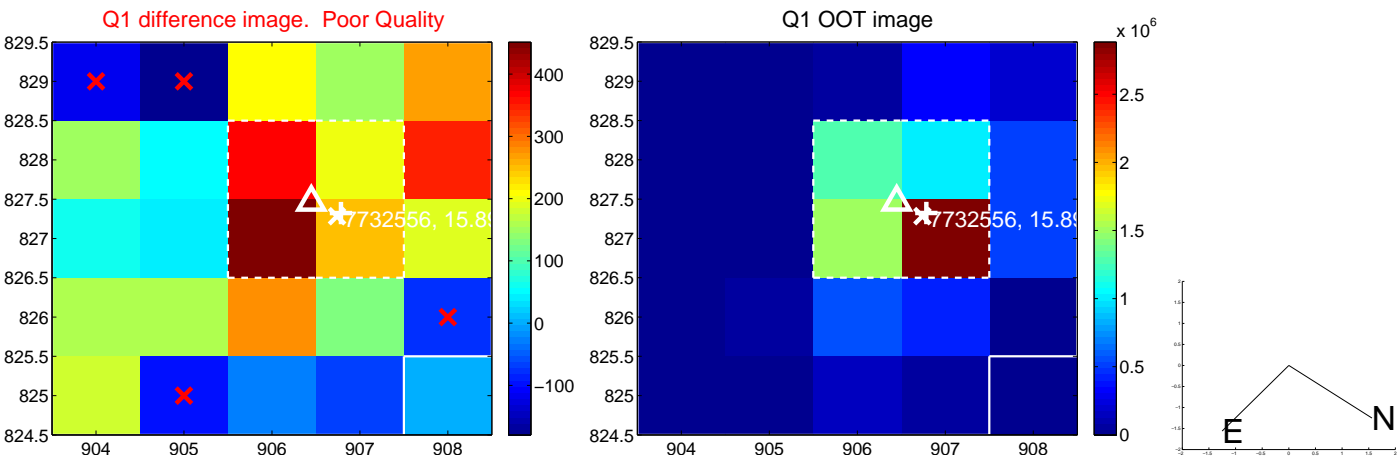
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.888 ± 0.523	1.70	-0.241 ± 0.622	-0.855 ± 0.600
PRF-fit source offset from KIC position	0.797 ± 0.478	1.67	-0.304 ± 0.643	-0.737 ± 0.580
photometric centroid source offset	5.63 ± 2.51	2.25	-4.34 ± 2.41	-3.59 ± 2.63

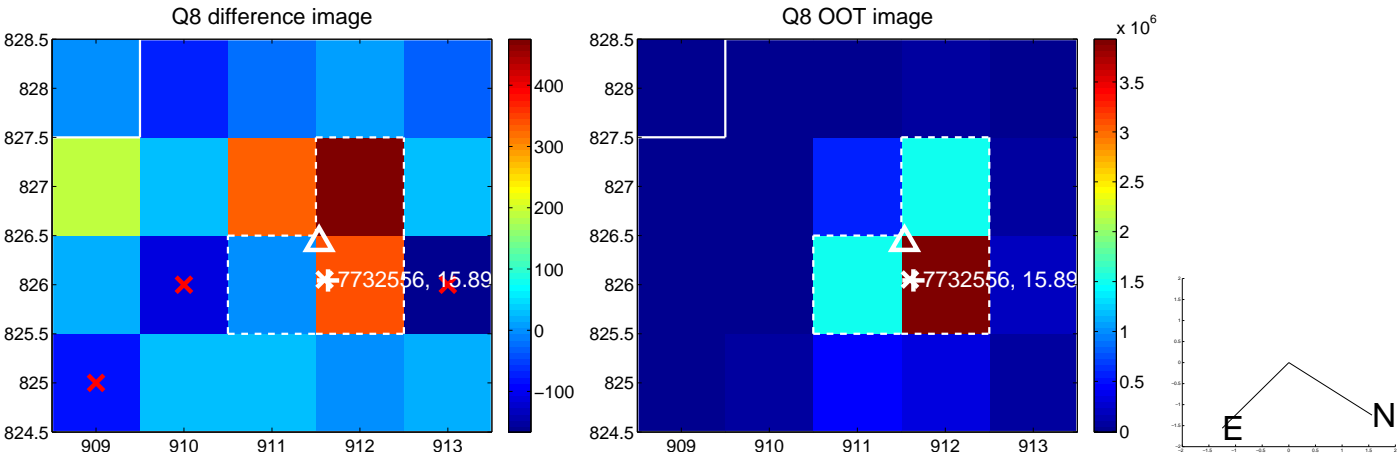
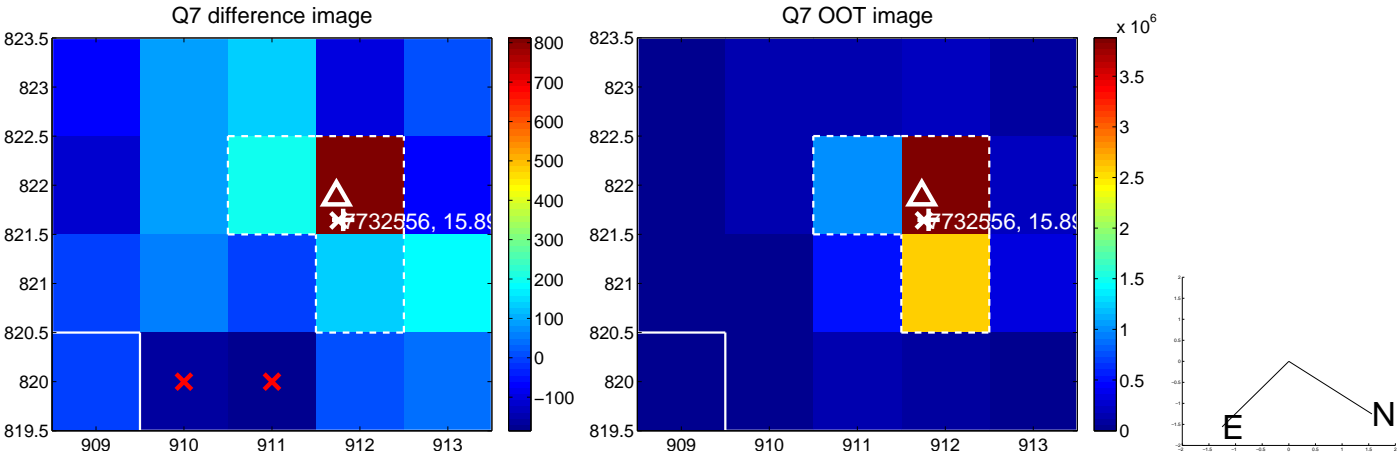
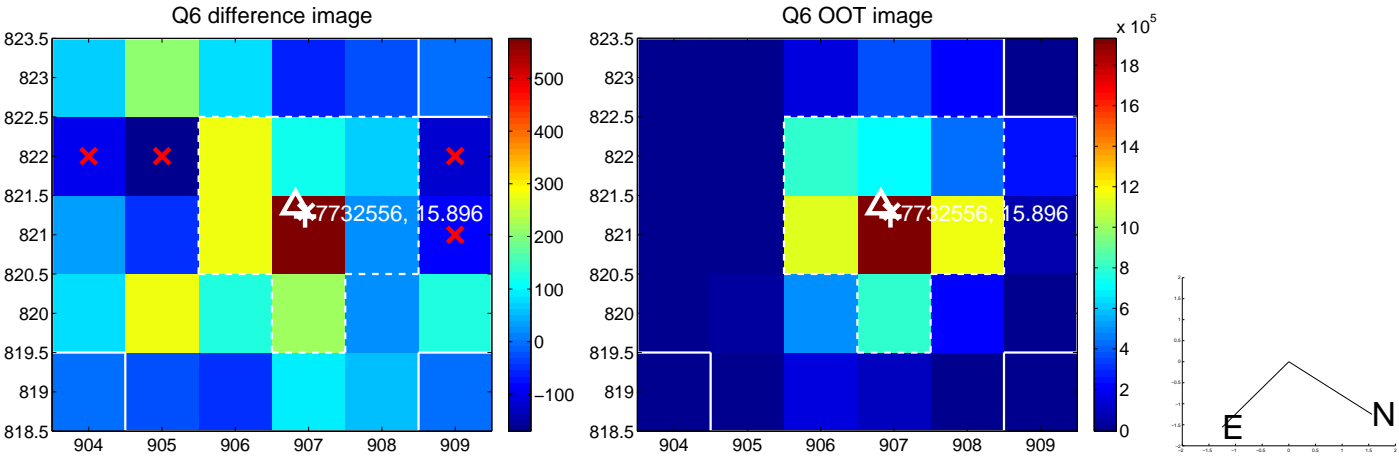
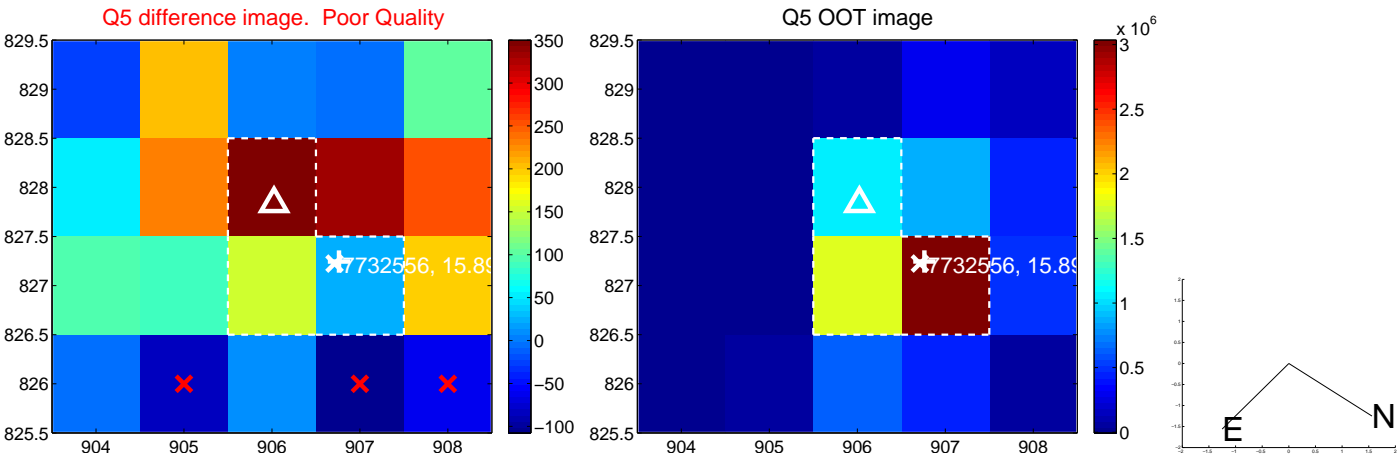


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

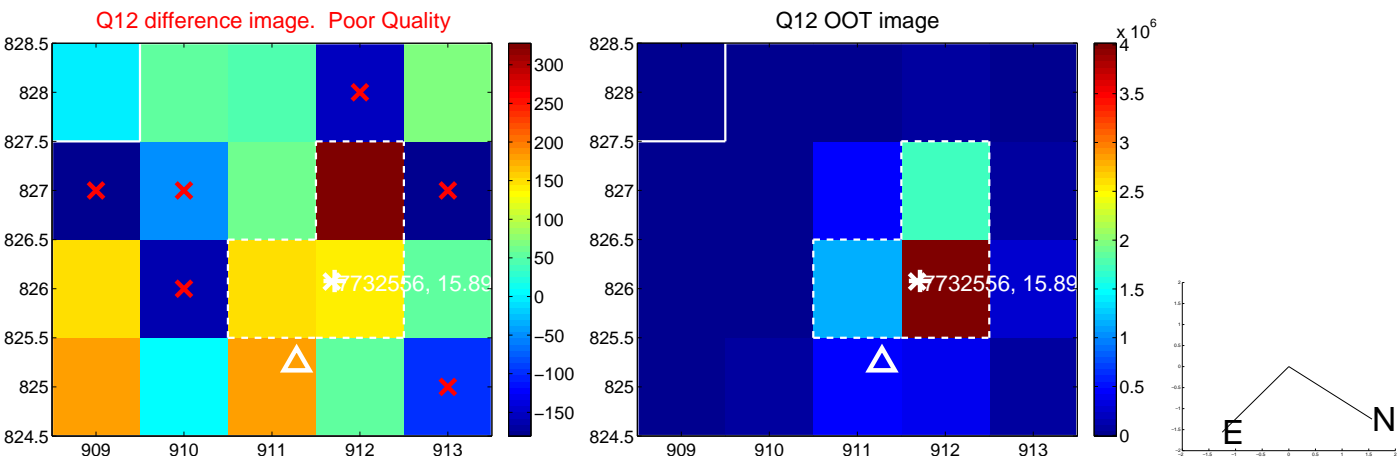
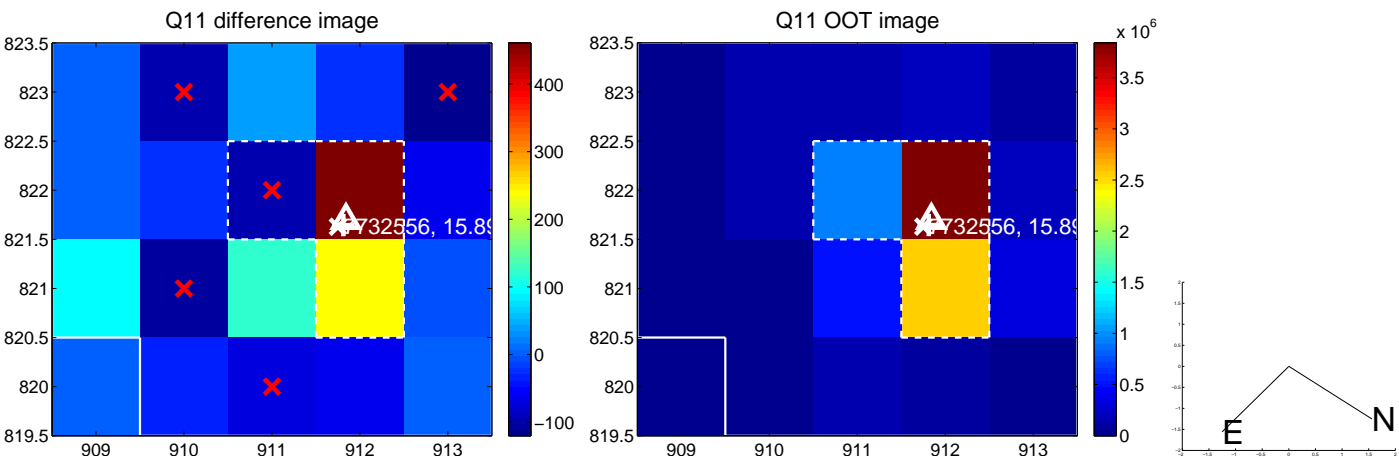
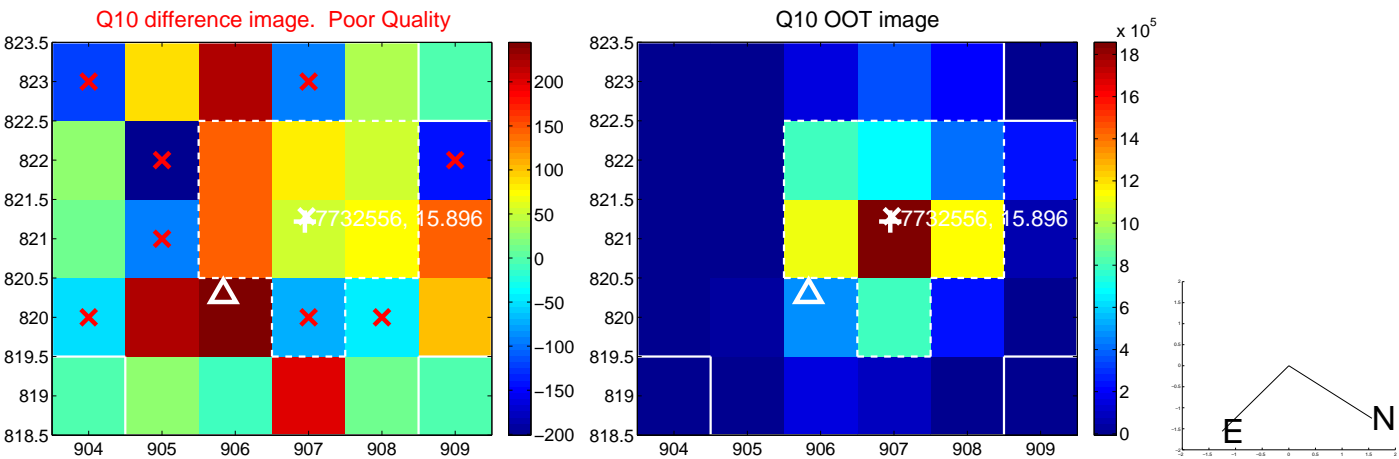
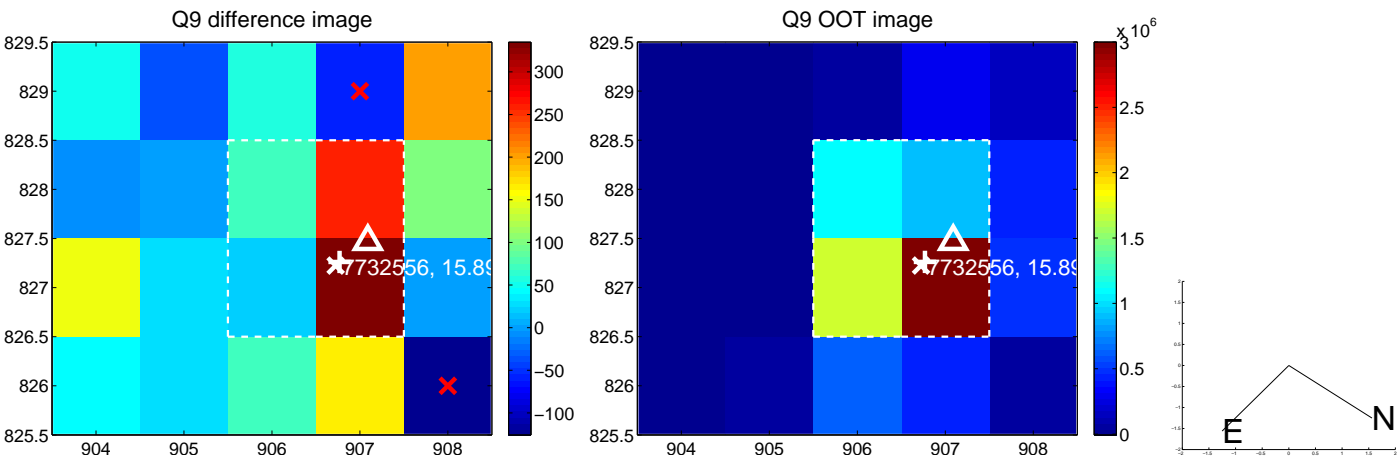
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



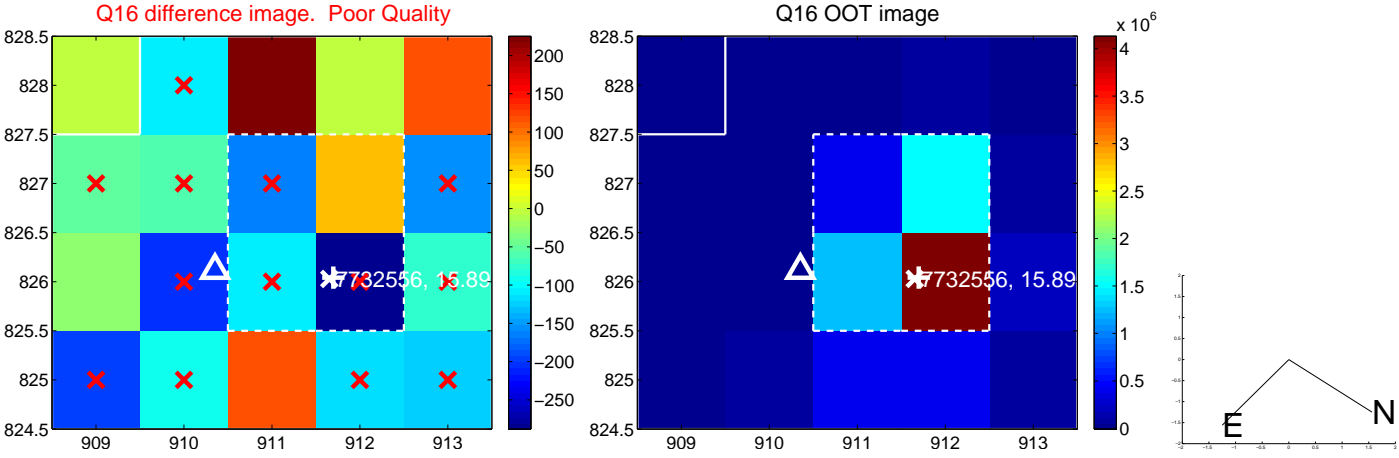
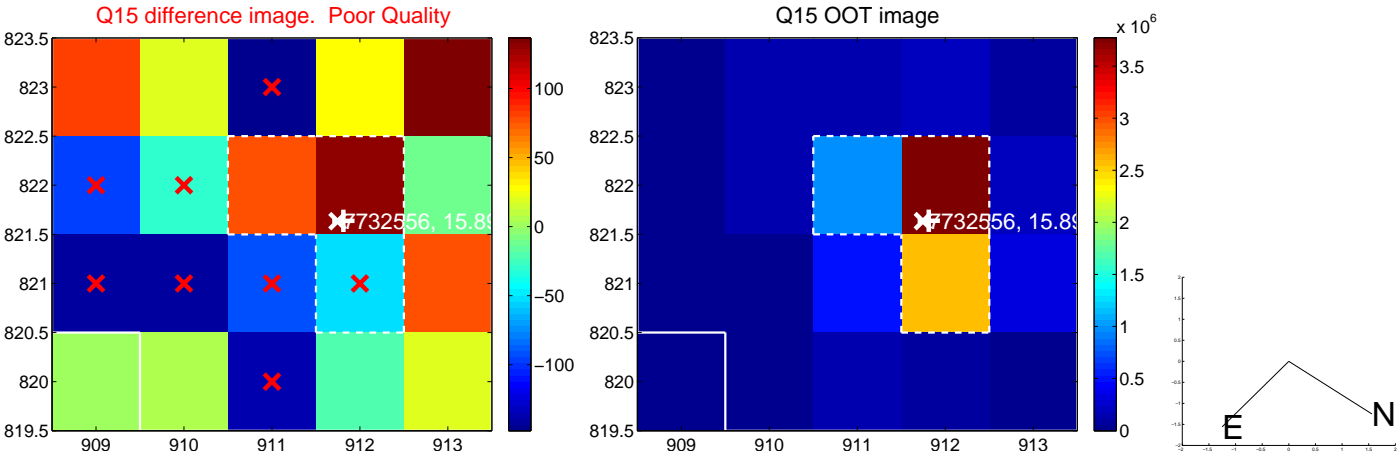
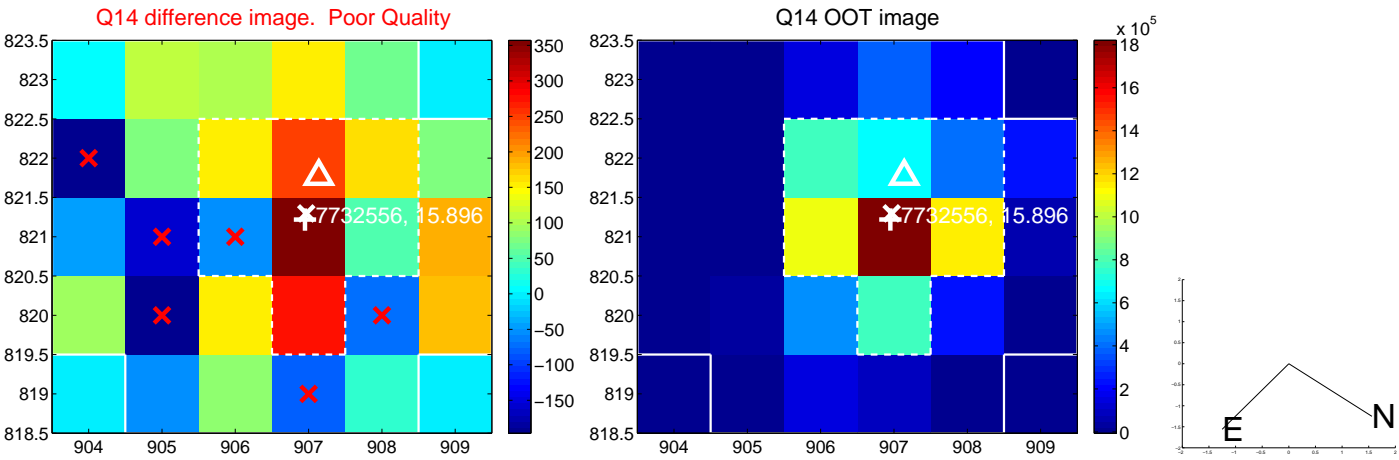
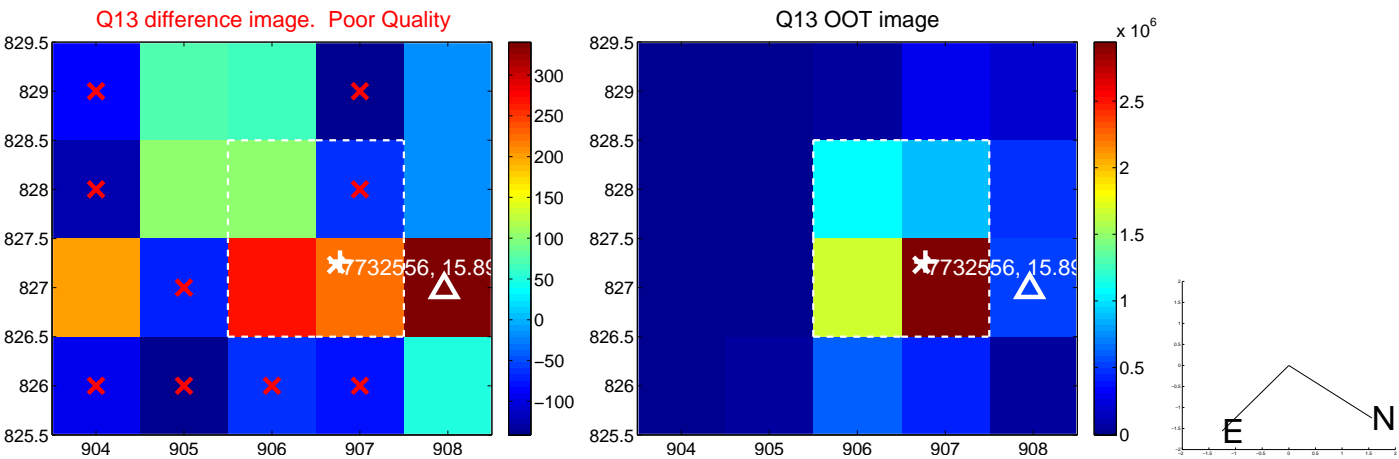
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



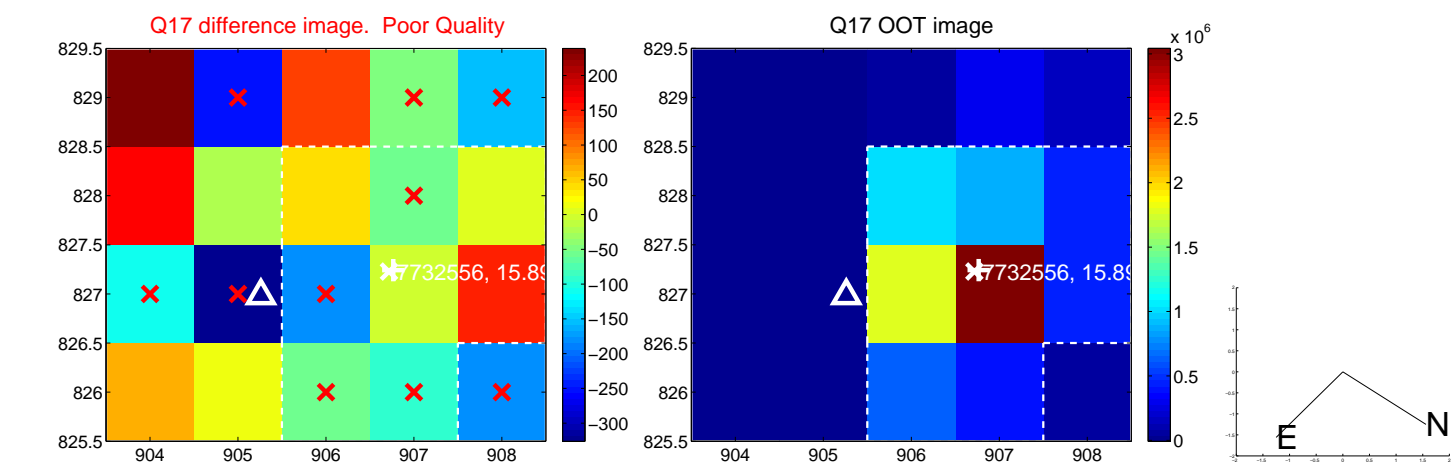
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



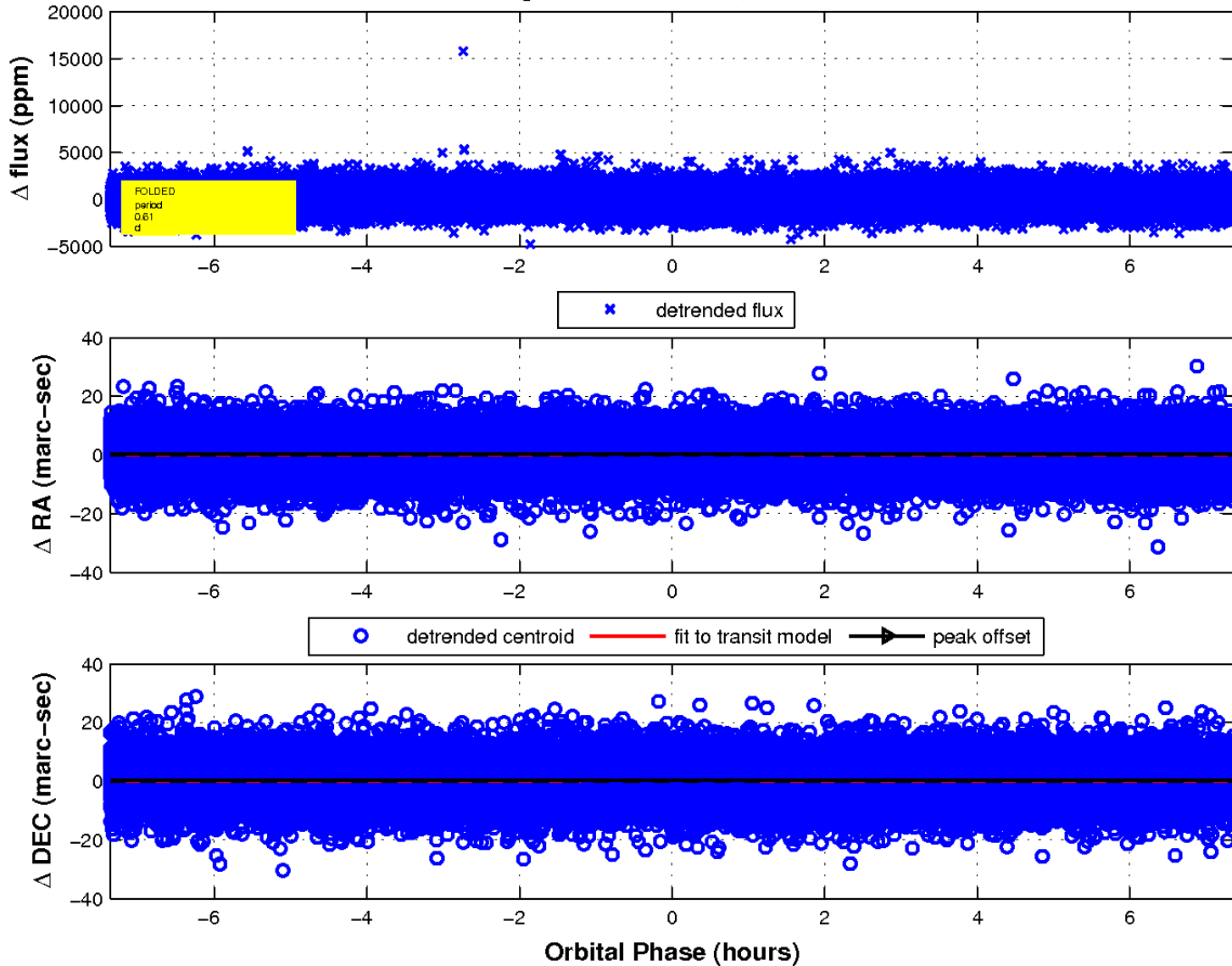
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

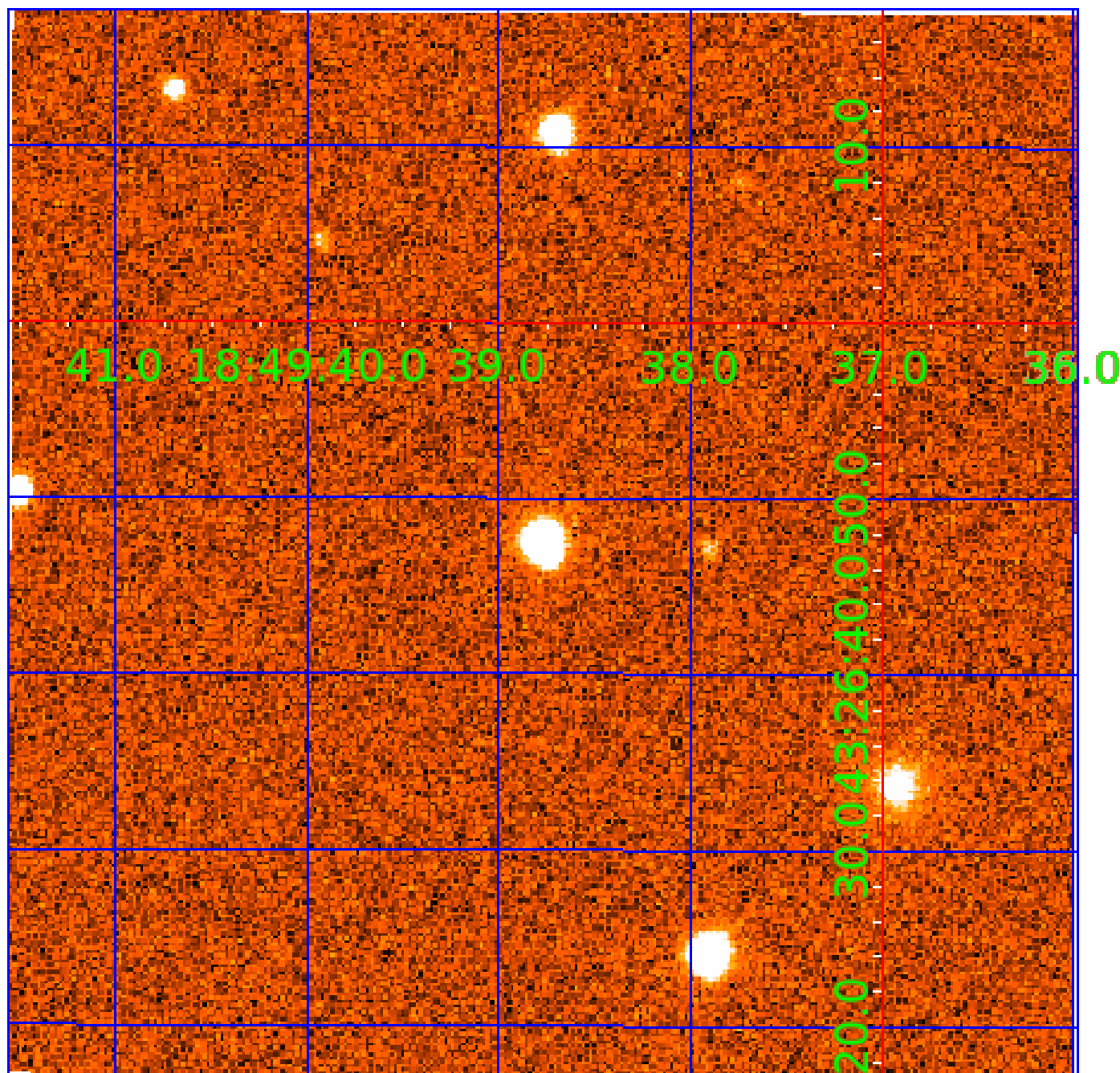


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 007732556

Q1-17 DR25 TCE Parameters

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007732556-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS

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

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

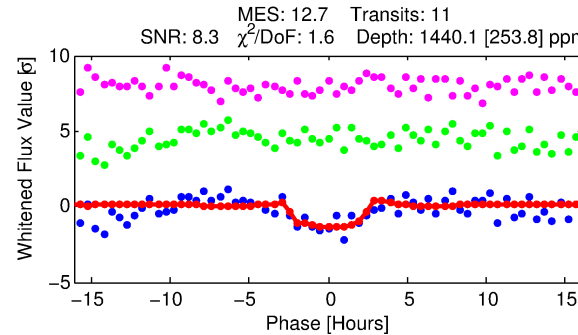
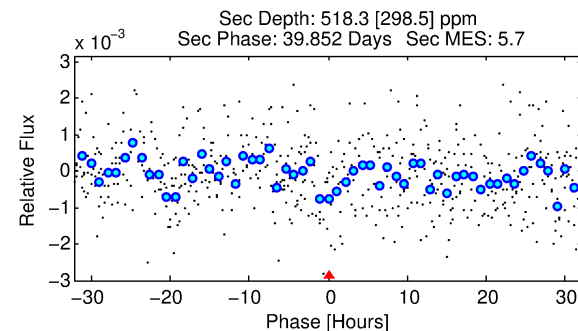
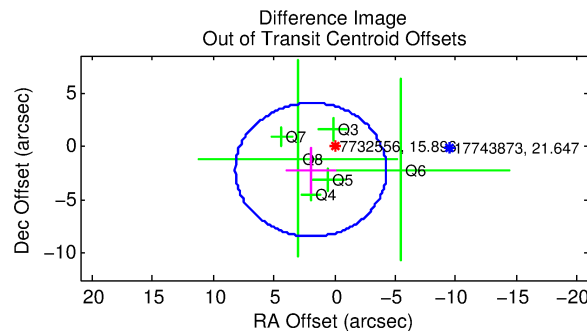
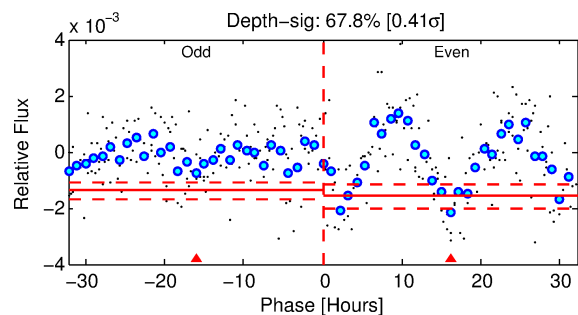
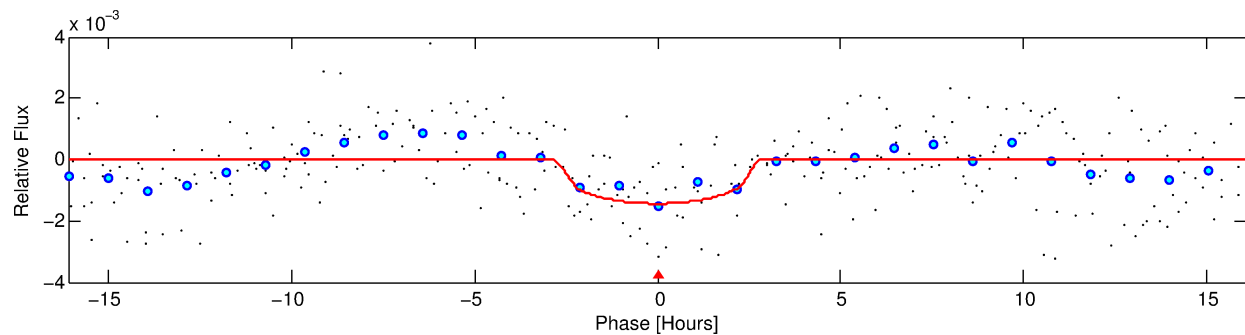
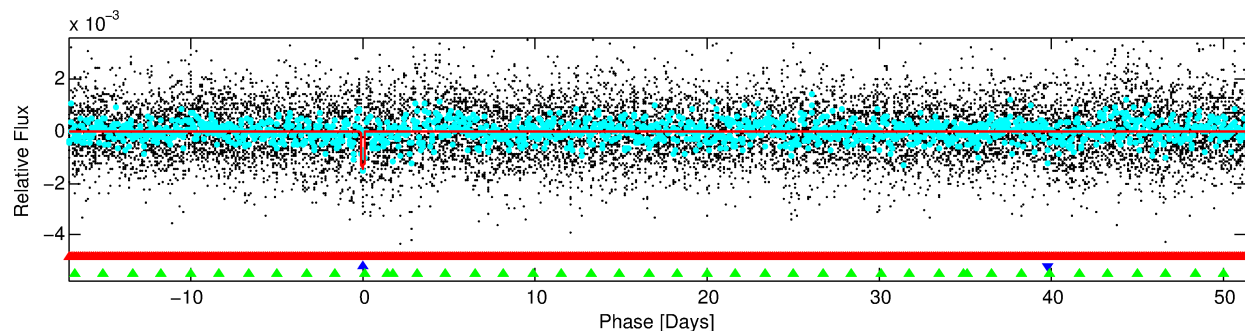
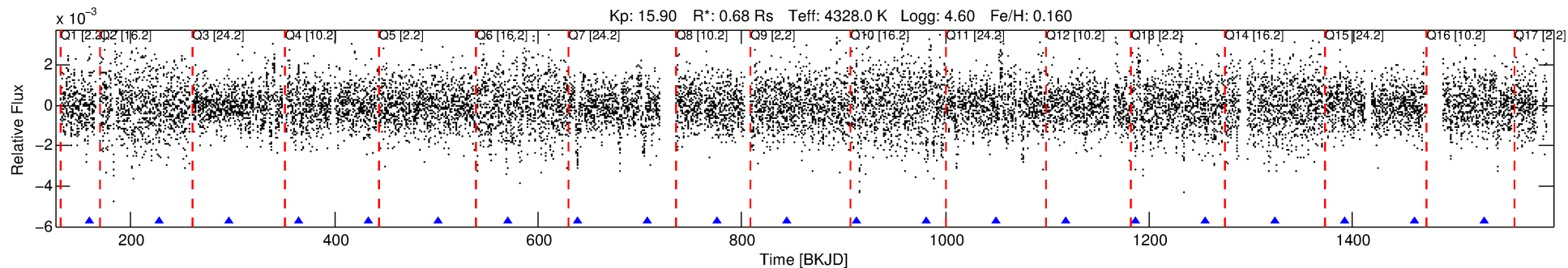
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007732556-02

No Significant Match Found

DV One-Page Summary

KIC: 7732556 Candidate: 2 of 3 Period: 68.535 d



DV Fit Results:

Period = 68.53503 [0.00137] d
Epoch = 159.0839 [0.0162] BKJD
Rp/R* = 0.0356 [0.0488]
a/R* = 82.84 [331.39]
b = 0.59 [4.52]
Seff = 1.76 [0.28]
Teq = 294 [12] K
Rp = 2.66 [3.65] Re
a = 0.2889 [0.0194] AU
Ag = 3363.43 [9410.12] [0.36 σ]
Teffp = 3459 [2421] K [1.31 σ]

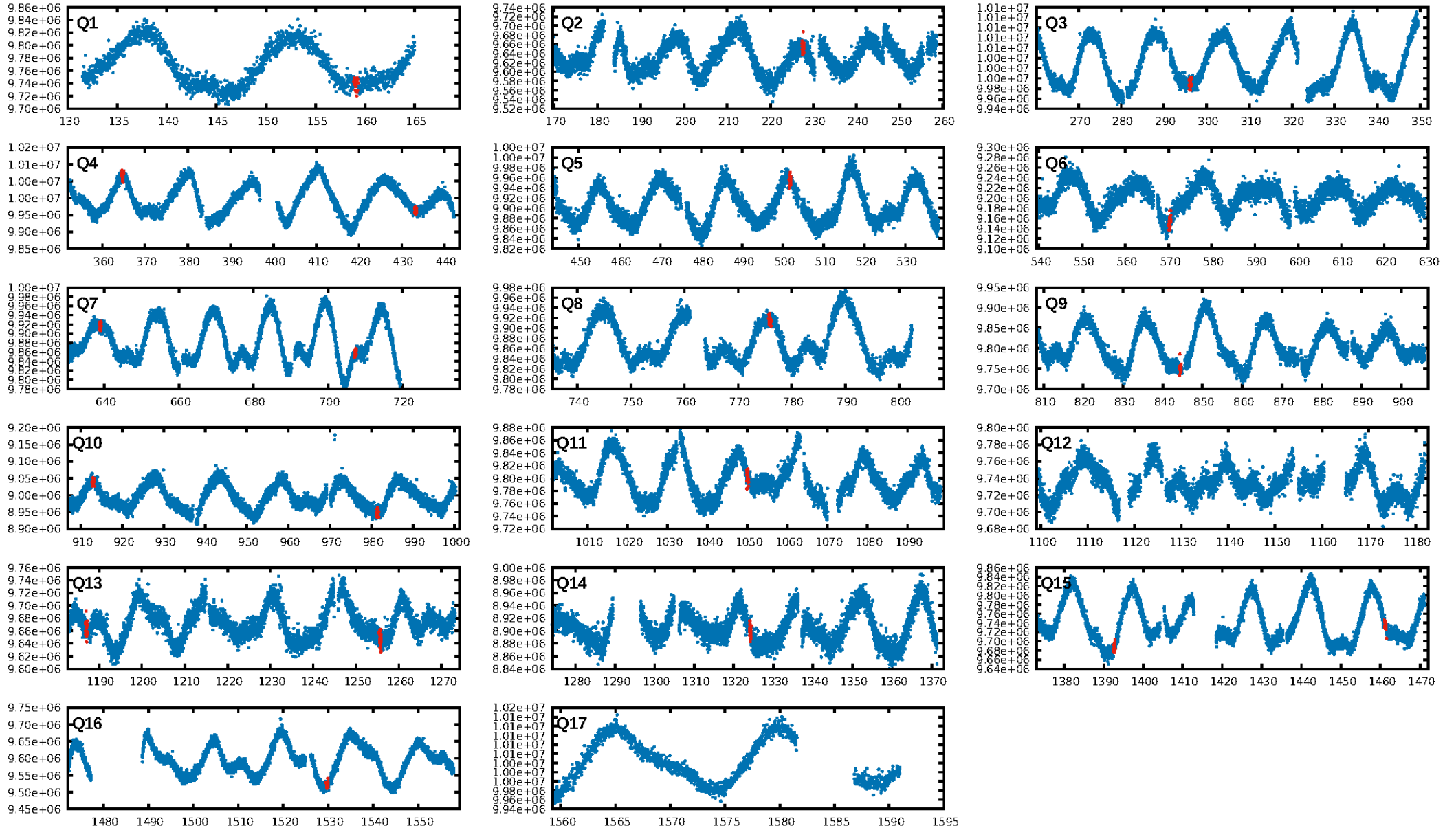
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [136.80 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 1.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.61e-24
RollingBand-fgt: 1.00 [11/11]
GhostDiagnostic-chr: 2.892
Centroid-sig: 0.1%
Centroid-so: 1.791 arcsec [2.24 σ]
OotOffset-rm: 2.940 arcsec [1.41 σ]
KicOffset-rm: 2.799 arcsec [1.35 σ]
OotOffset-st: 1/2/2/1 [6]
KicOffset-st: 1/2/2/1 [6]
DiffImageQuality-fgm: 0.00 [0/6]
DiffImageOverlap-fno: 0.00 [0/15]

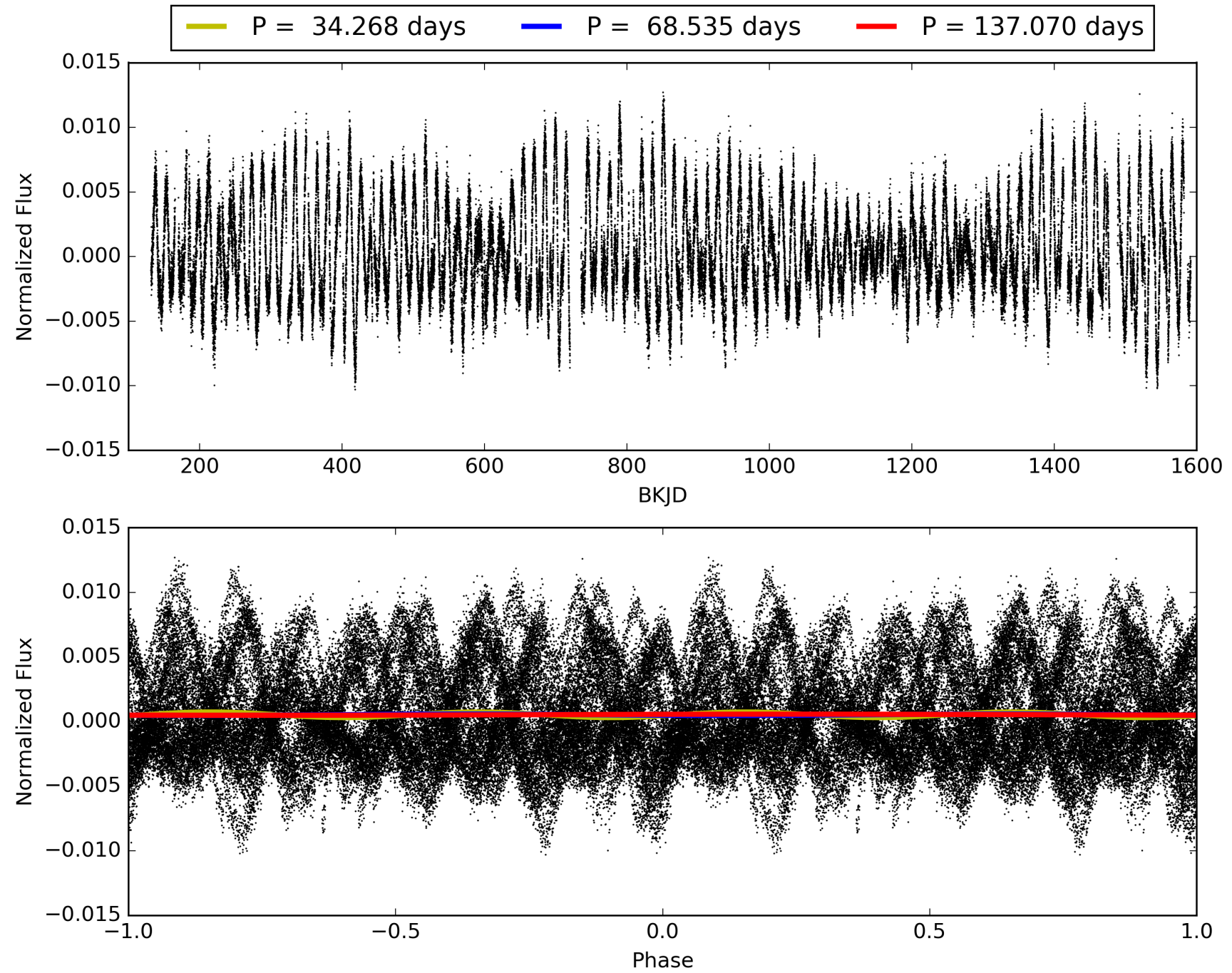
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007732556-02, PDC Light Curves

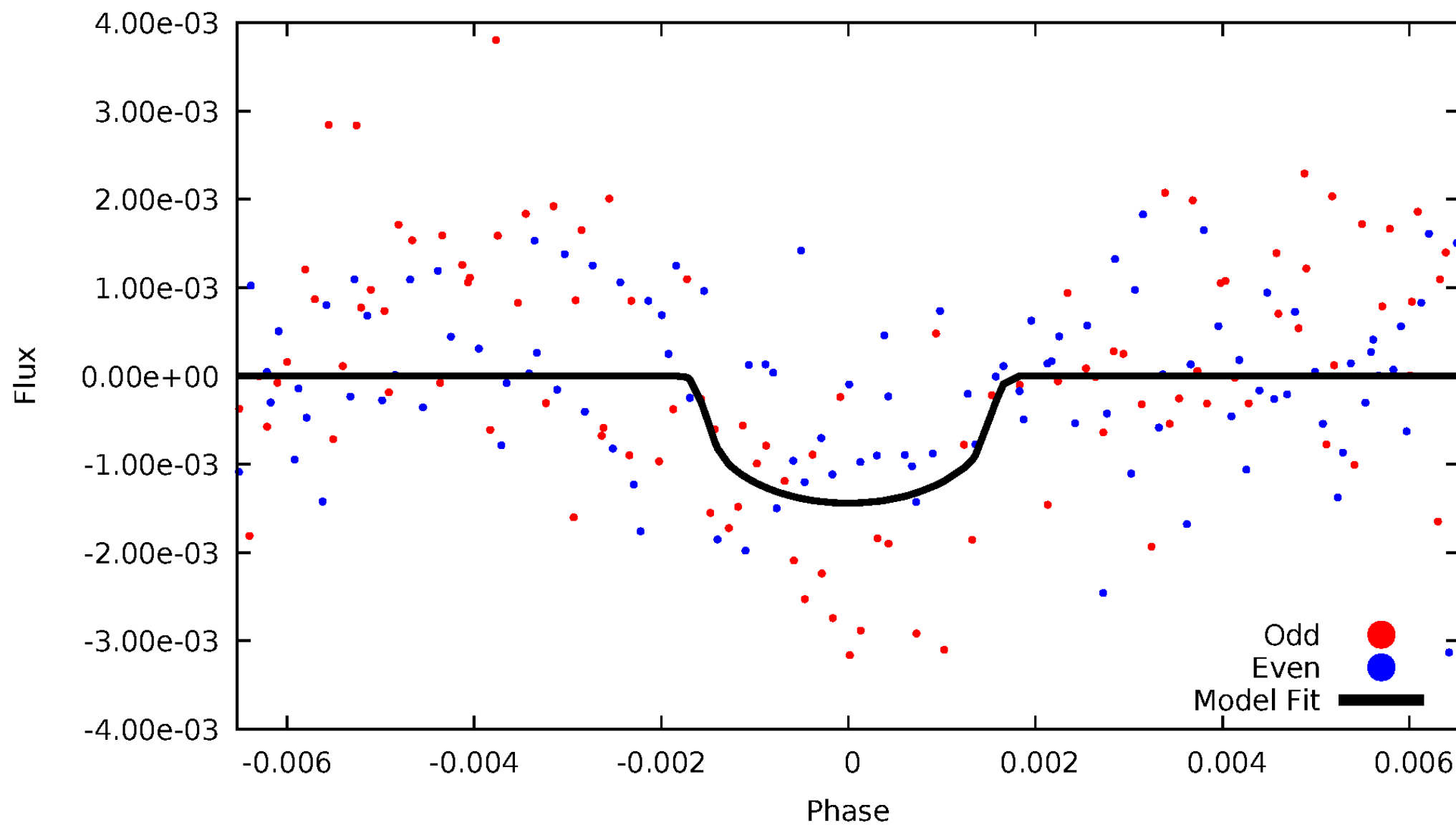


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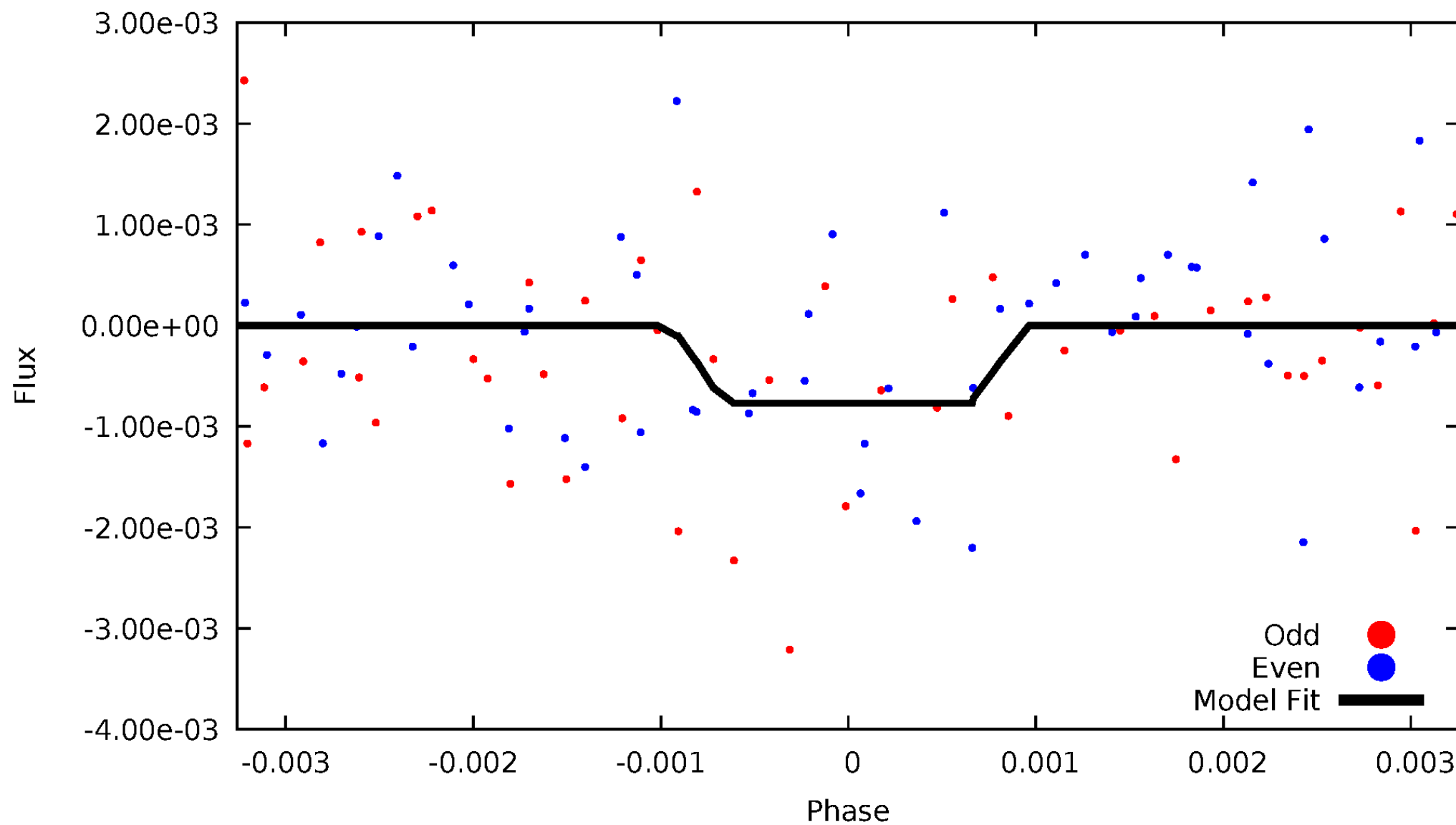
DV Odd/Even

TCE 007732556-02



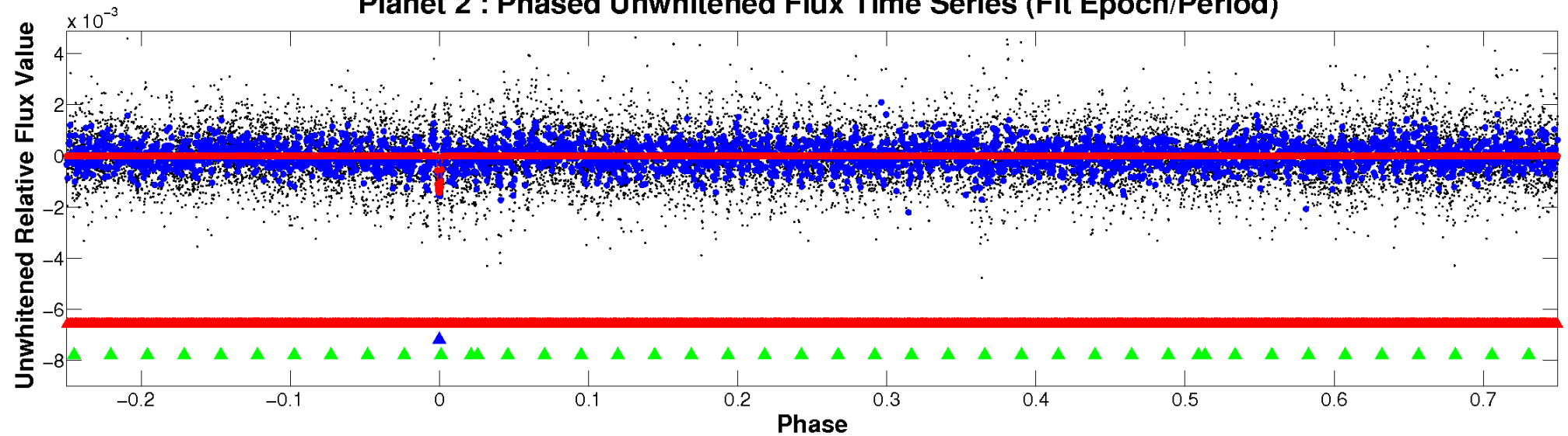
ALT Odd/Even

TCE 007732556-02

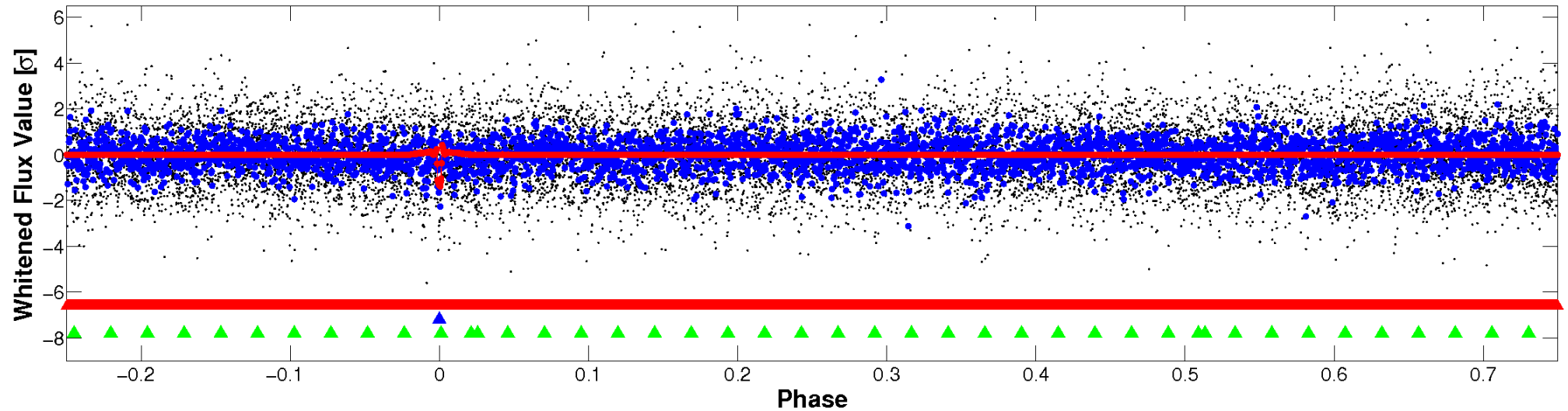


Non-Whitened Vs. Whitened Light Curve

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

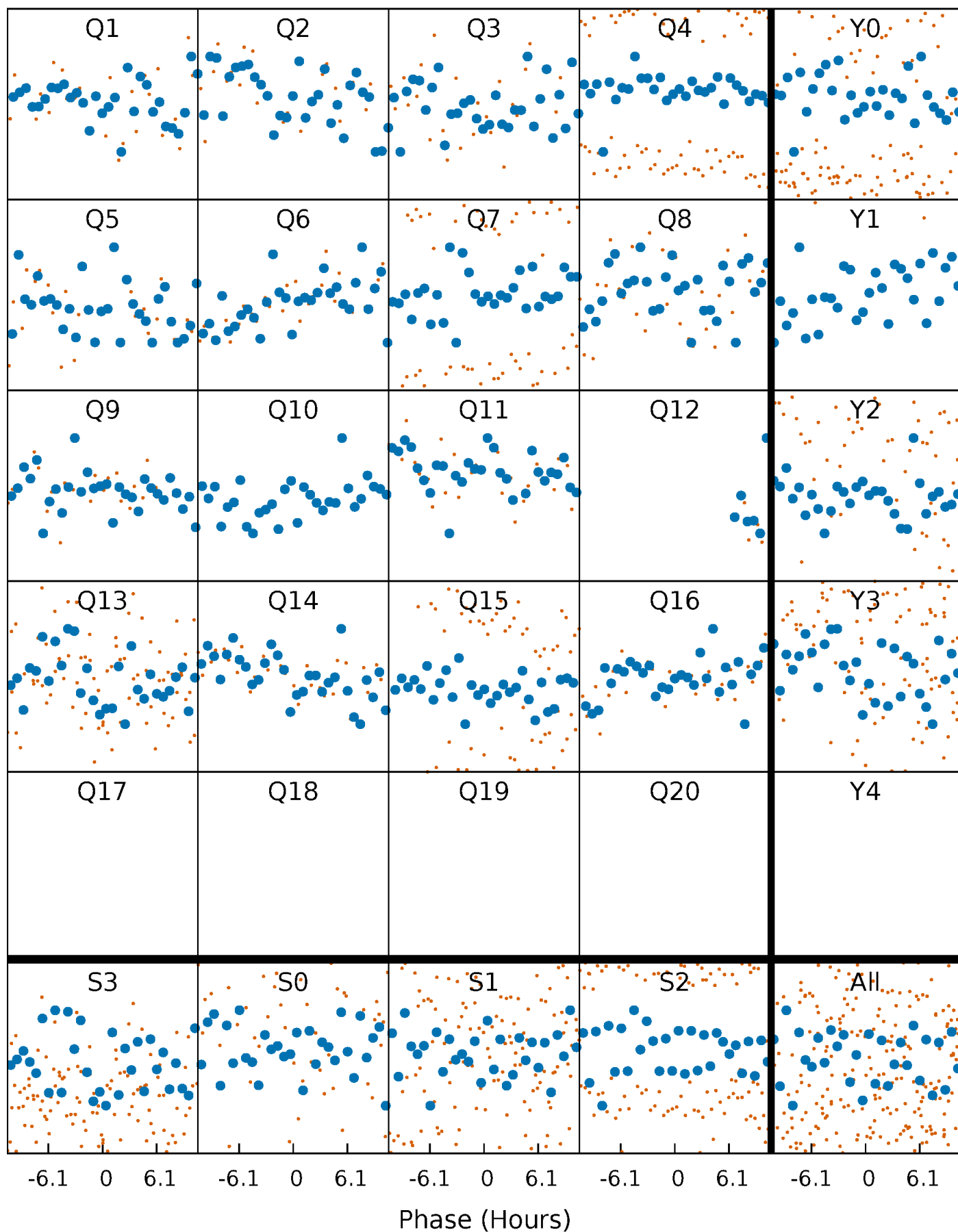


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



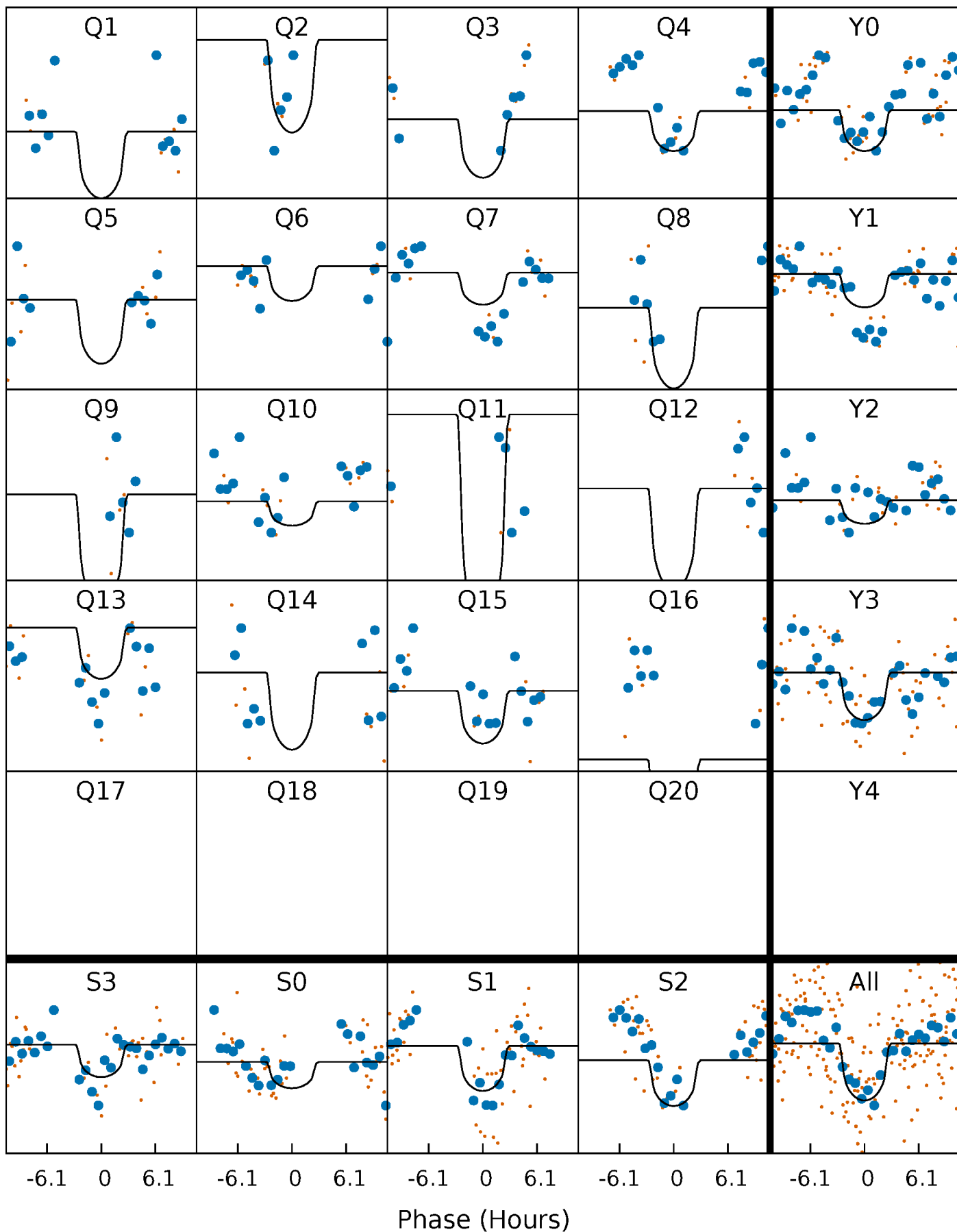
PDC Quarter-Phased Transit Curves

TCE 007732556-02 P= 68.535028 Days $T_0=159.083895$ (BKJD)



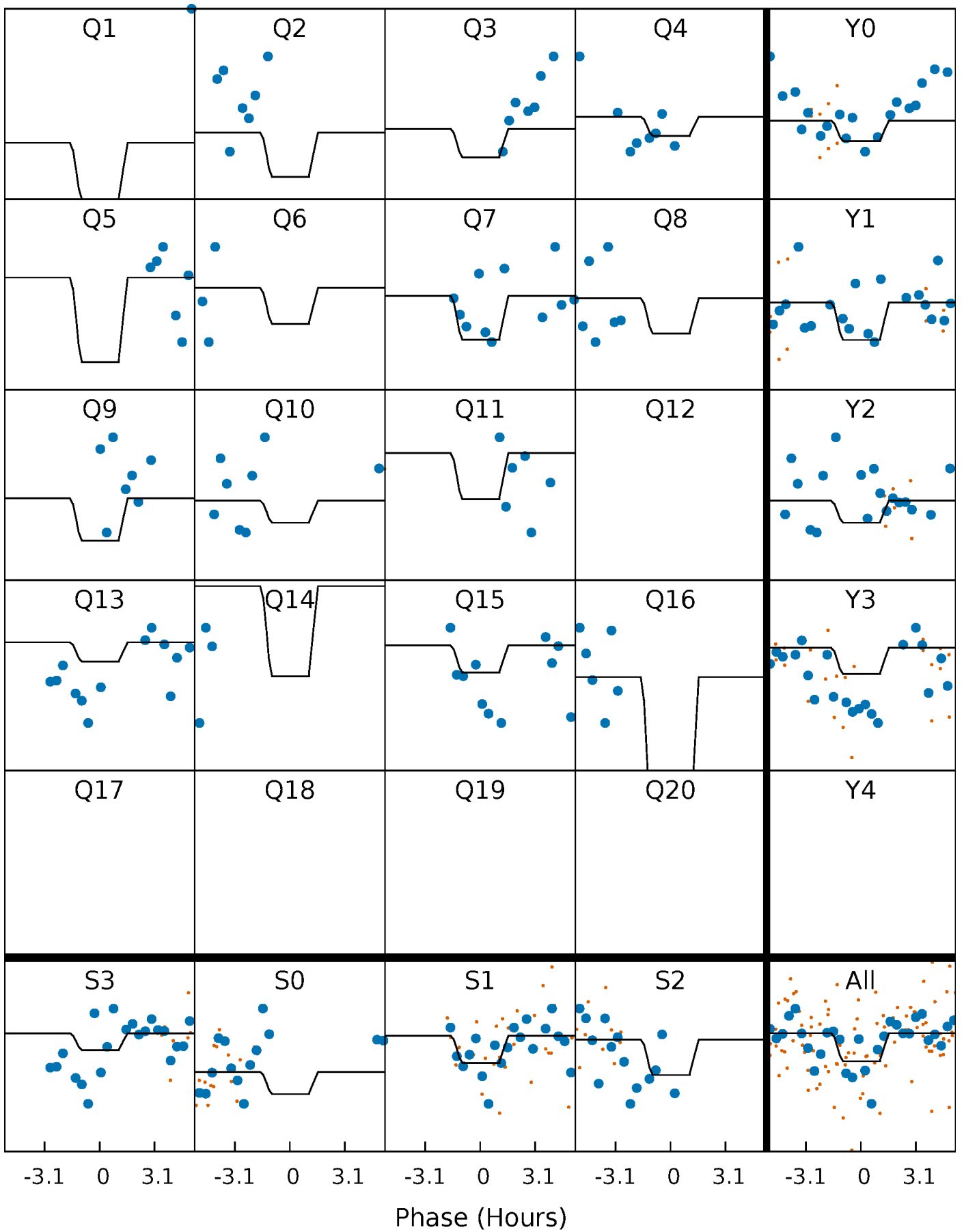
DV Quarter-Phased Transit Curves

TCE 007732556-02 P= 68.535028 Days $T_0=159.083895$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

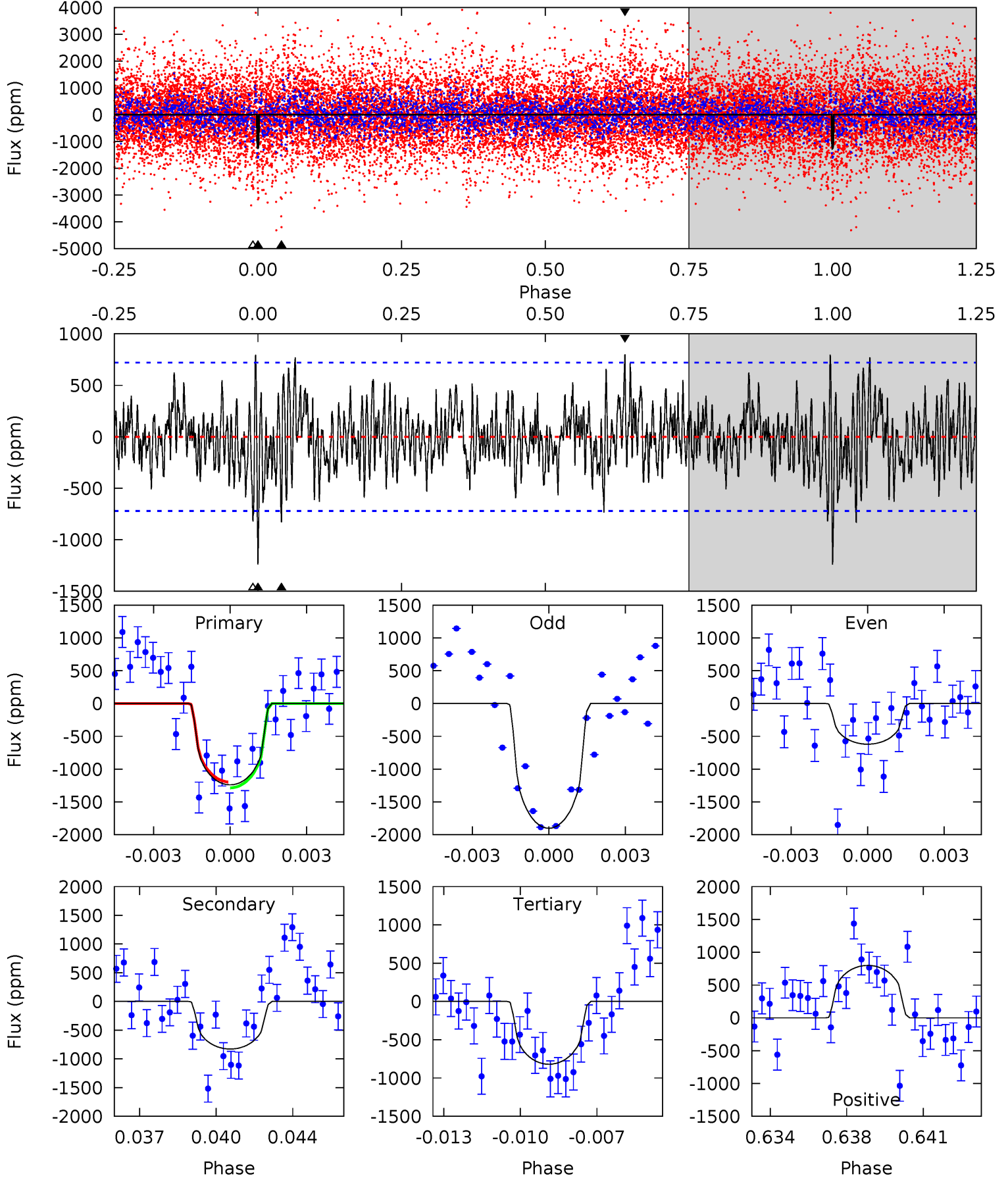
TCE 007732556-02 P= 68.533084 Days $T_0=159.135427$ (BKJD)



DV Model-Shift Uniqueness Test

007732556-02, P = 68.535028 Days, E = 90.548867 Days

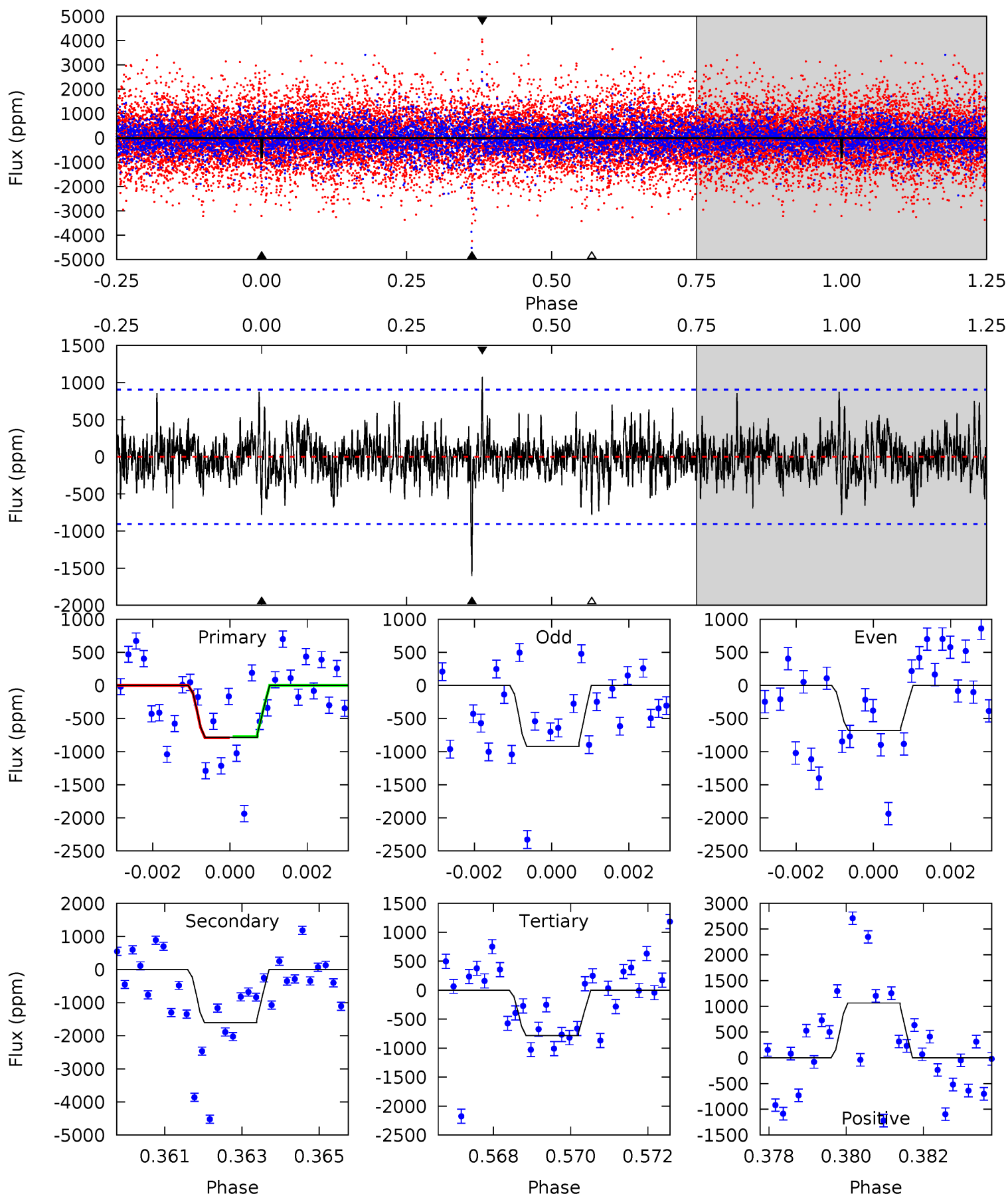
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.00	6.02	5.95	5.80	5.23	2.93	1.79	3.05	3.20	0.06	0.21	4.64	1.14	0.39	0.32



Alt Model-Shift Uniqueness Test

007732556-02, P = 68.533084 Days, E = 90.602343 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.61	9.45	4.61	6.27	5.34	3.11	1.29	0.01	-1.66	4.84	3.18	0.72	1.54	0.40	0.05



Stellar Parameters For KIC 007732556

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4328^{+129}_{-142}	$4.603^{+0.049}_{-0.017}$	$0.160^{+0.250}_{-0.300}$	$0.684^{+0.028}_{-0.057}$	$0.683^{+0.047}_{-0.057}$	$3.010^{+0.689}_{-0.238}$
	+3%/-3%	+1%/-0%	+156%/-188%	+4%/-8%	+7%/-8%	+23%/-8%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007732556-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-829 ± 138	$3.92^{+2.90}_{-2.61}$	408^{+14}_{-15}	3526^{+1687}_{-584}	2577^{+19496}_{-1759}
Alt.	-1604 ± 170	$3.32^{+3.03}_{-2.19}$	408^{+13}_{-15}	4112^{+2432}_{-754}	6412^{+49630}_{-4500}

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

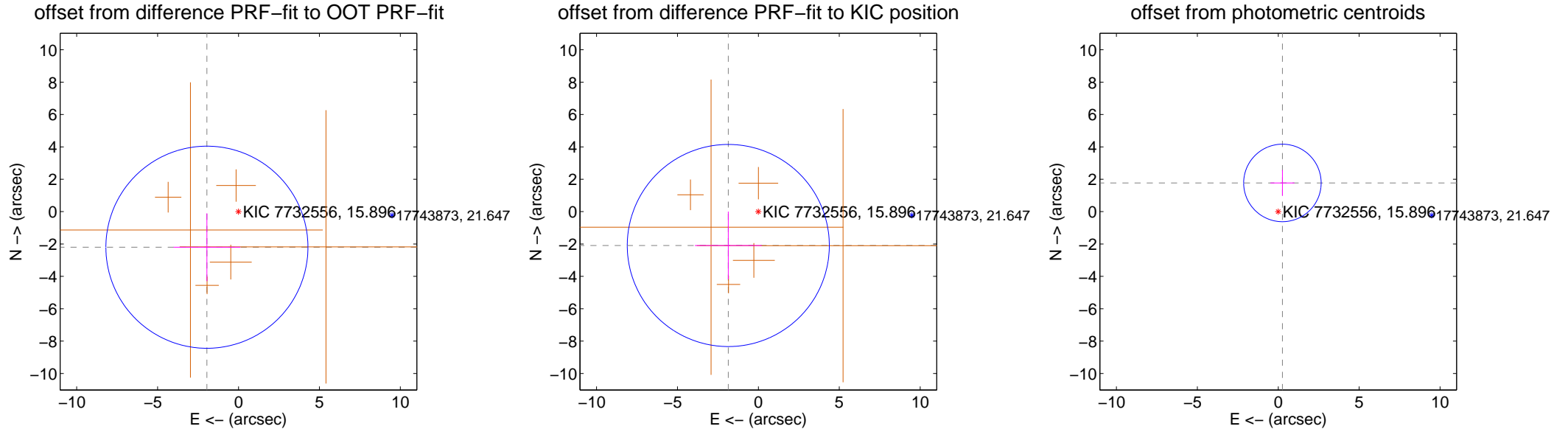
DV Centroid Data

Supplemental centroid analysis for 007732556-02. Kepler magnitude: 15.90. Transit SNR 8.26

There are 0 quarters with good PRF difference image offsets

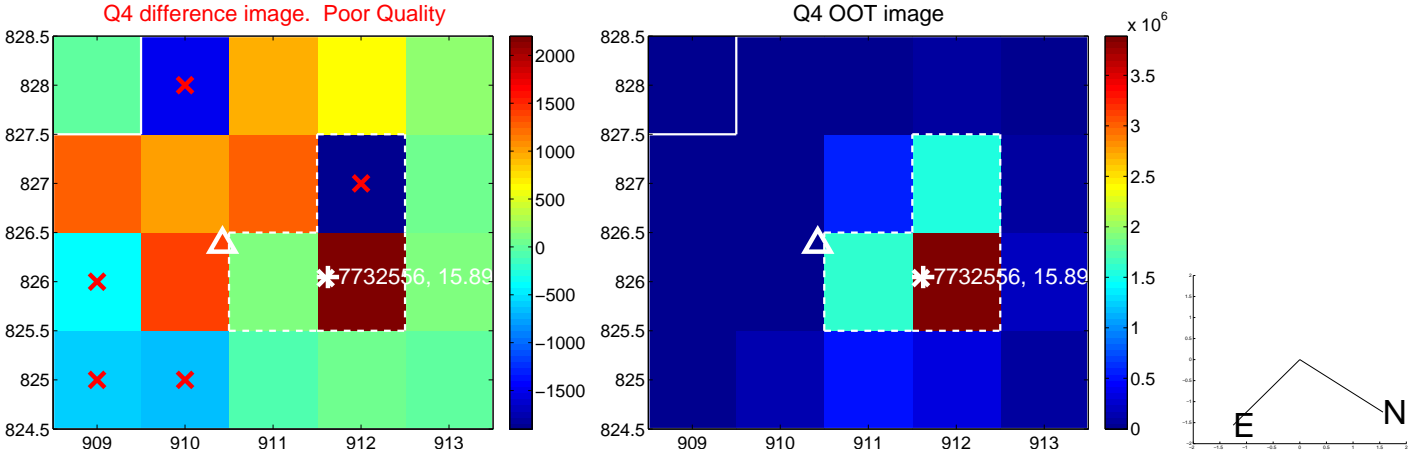
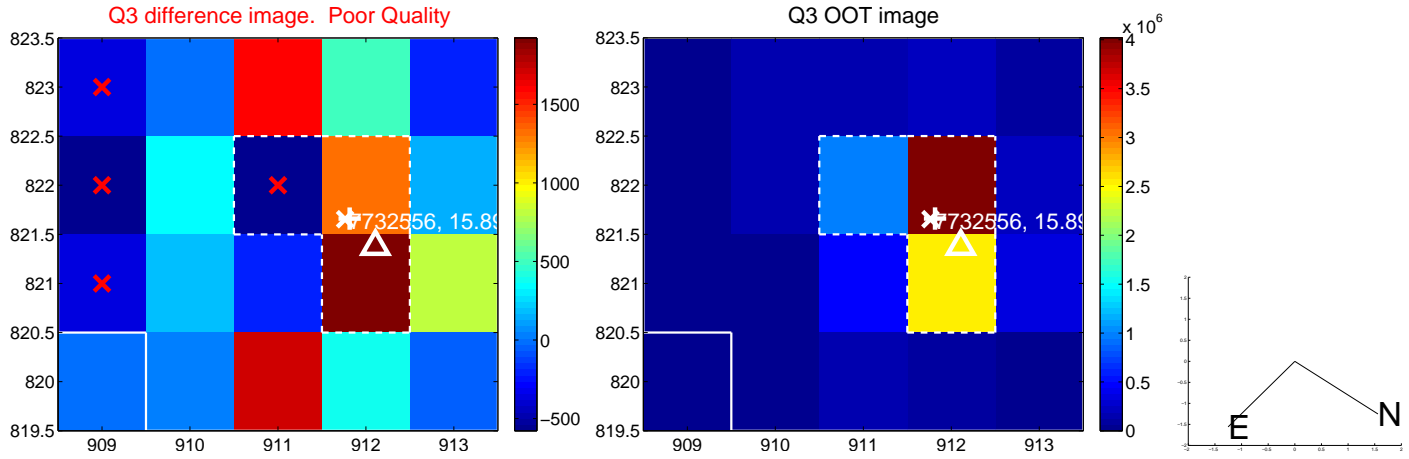
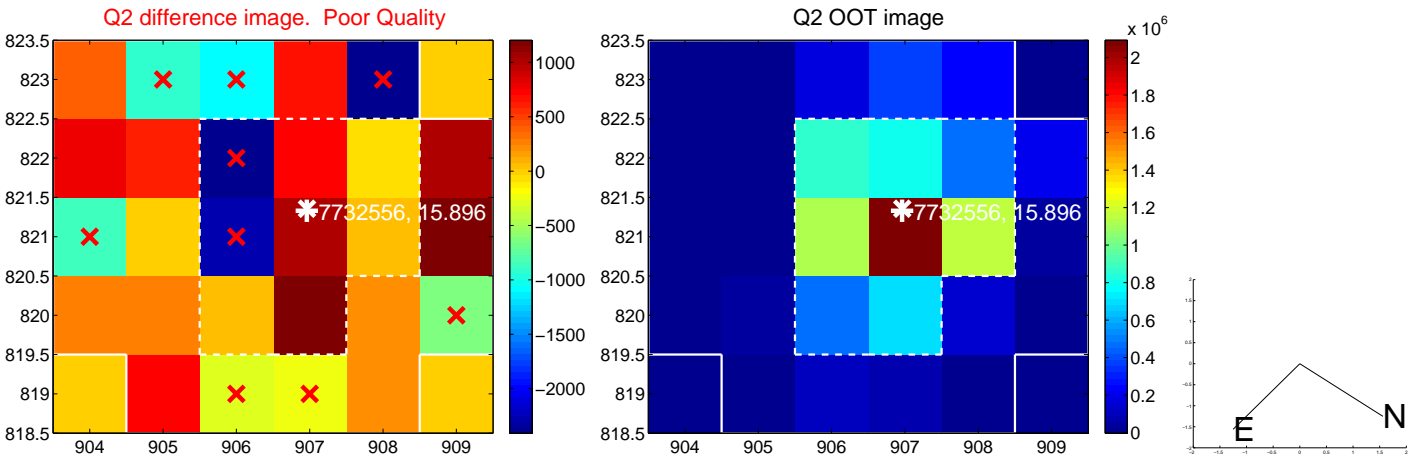
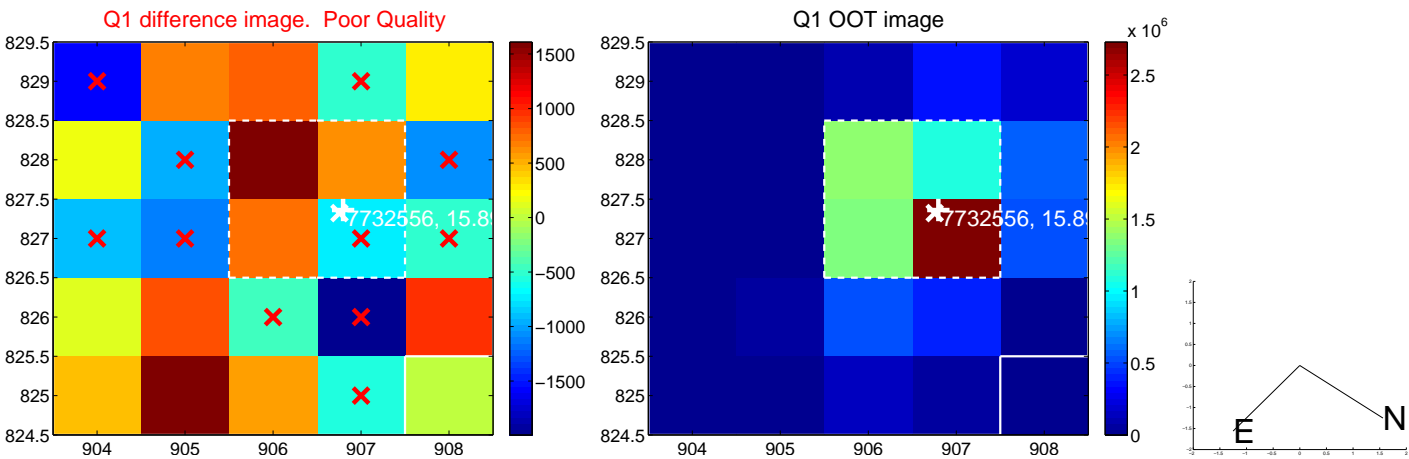
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.940 ± 2.081	1.41	1.951 ± 2.063	-2.199 ± 2.095
PRF-fit source offset from KIC position	2.799 ± 2.081	1.35	1.859 ± 2.063	-2.093 ± 2.095
photometric centroid source offset	1.79 ± 0.80	2.24	-0.26 ± 0.74	1.77 ± 0.80

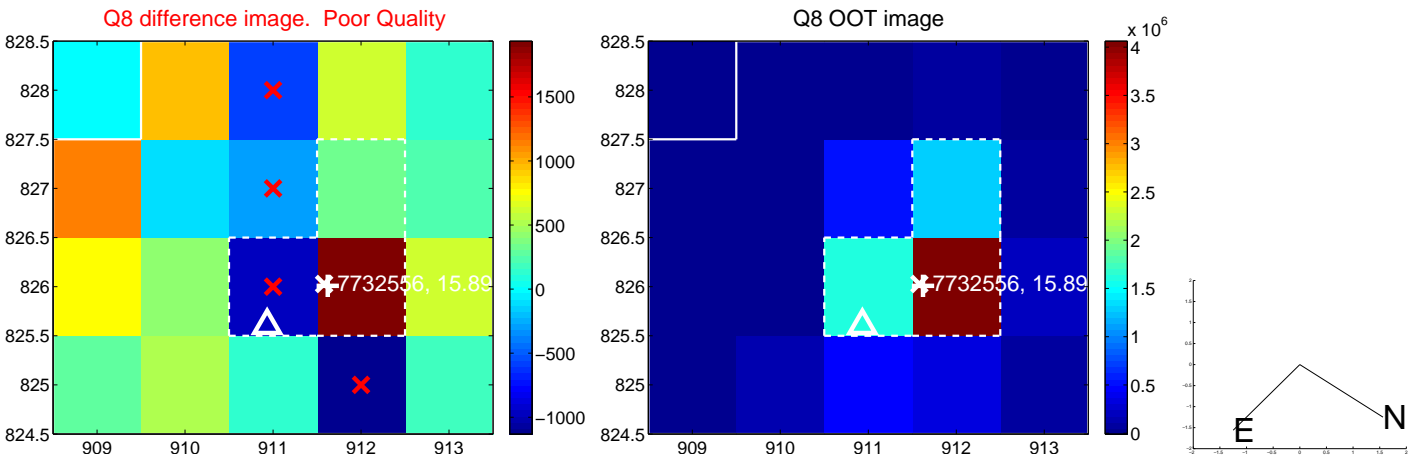
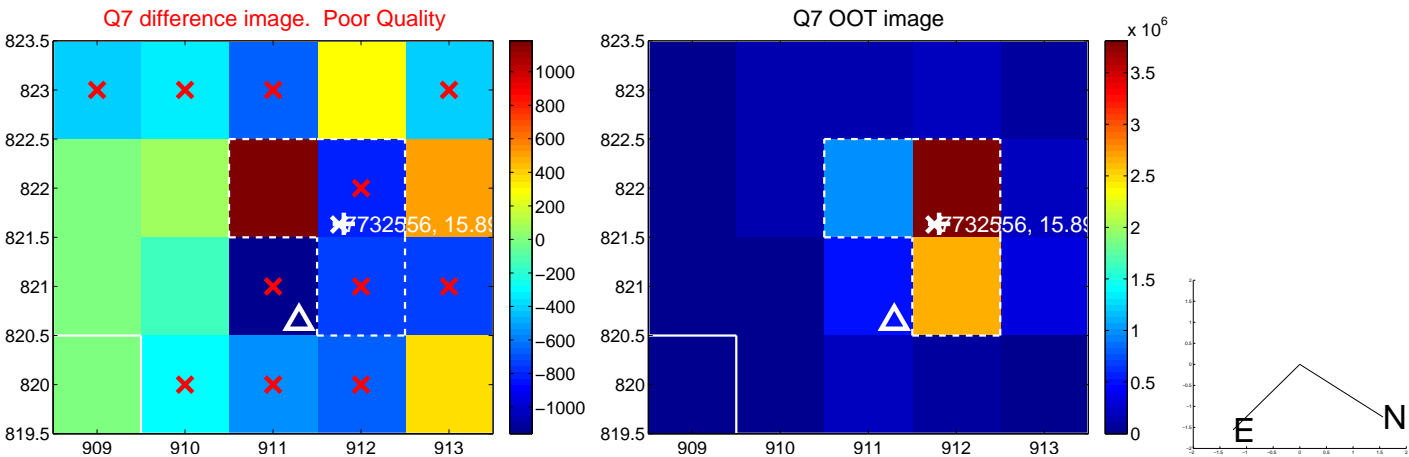
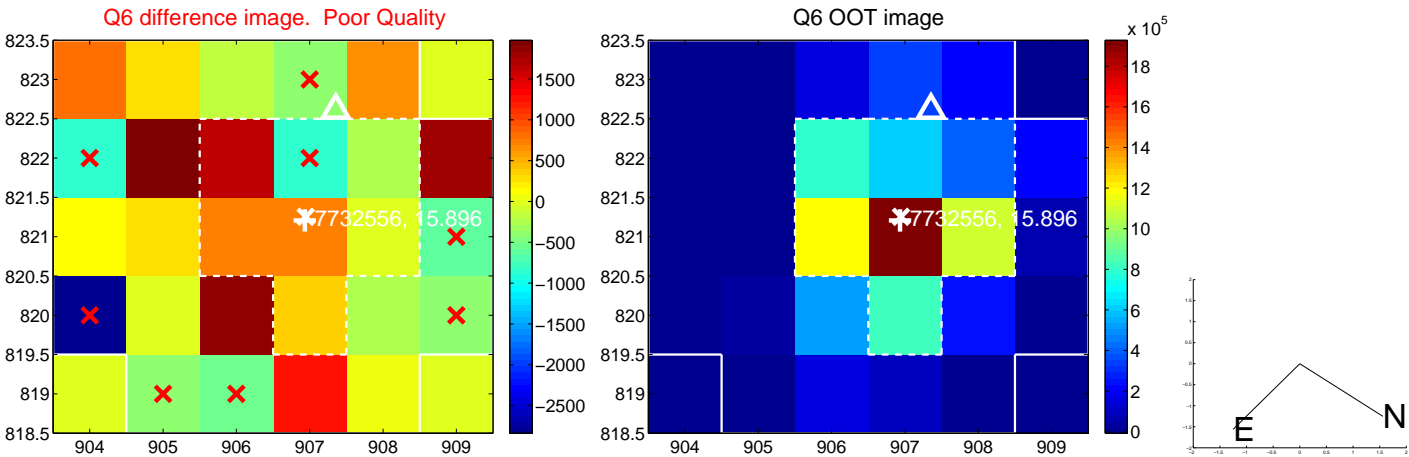
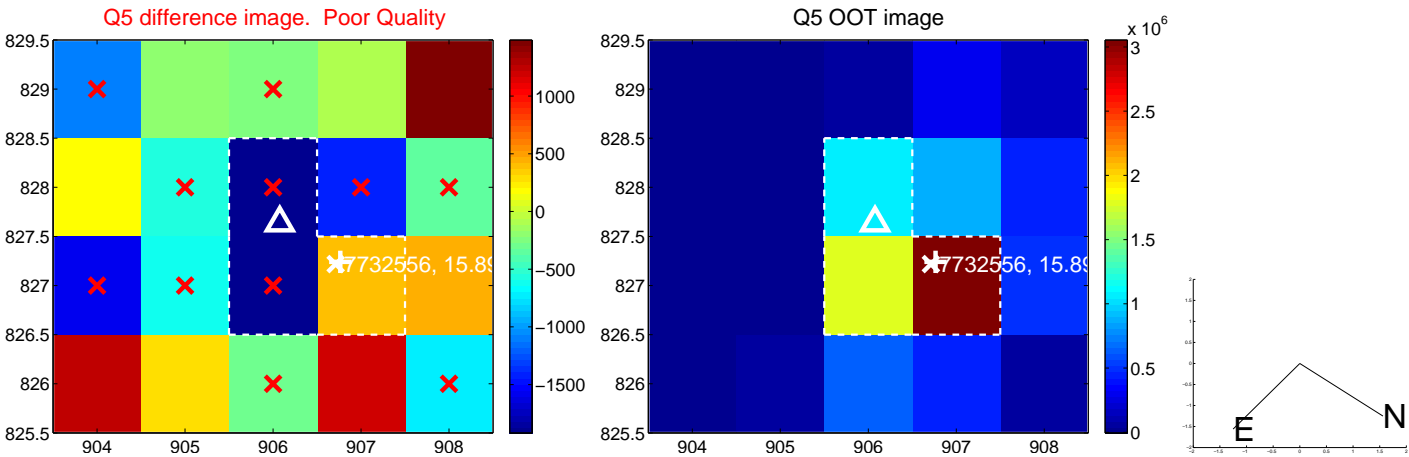


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

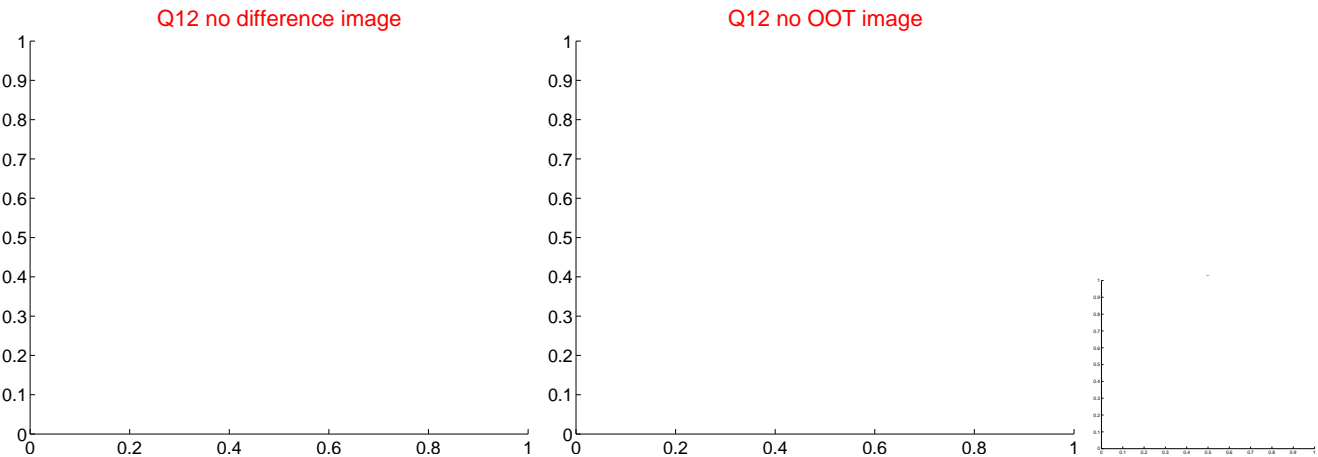
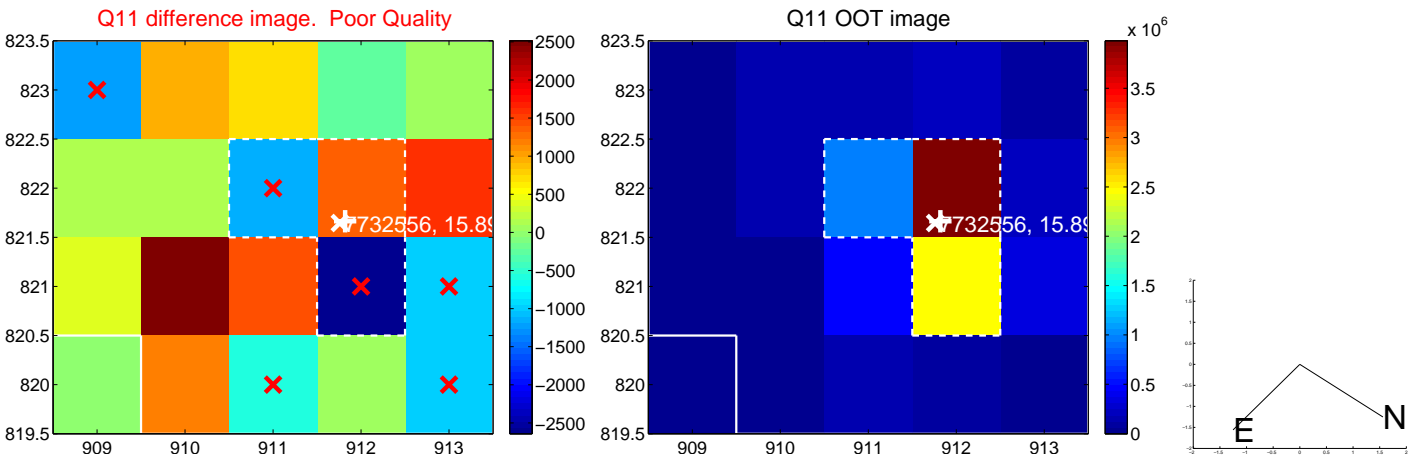
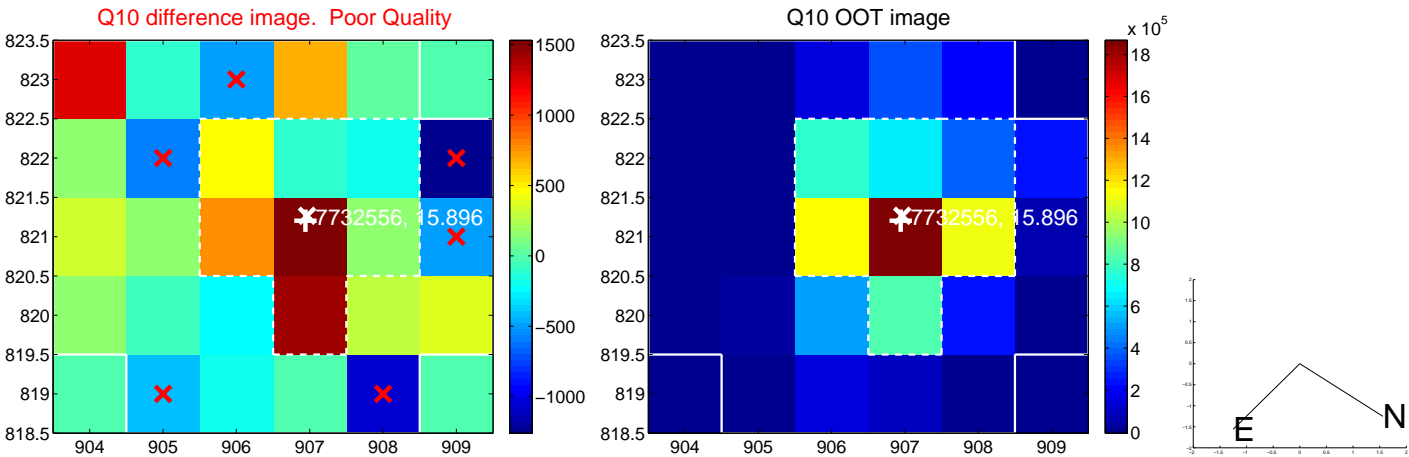
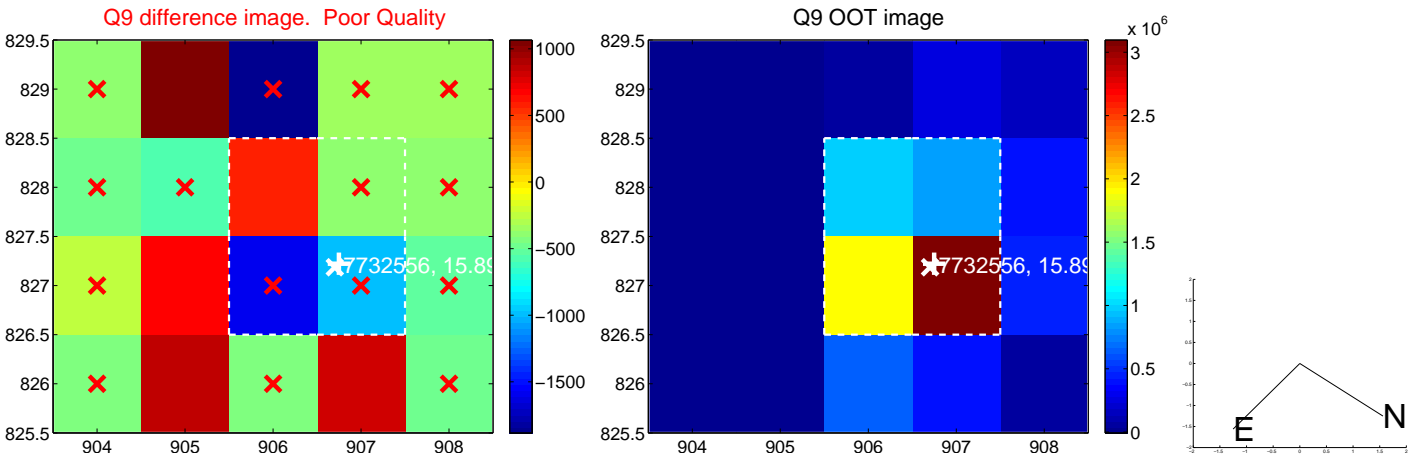
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



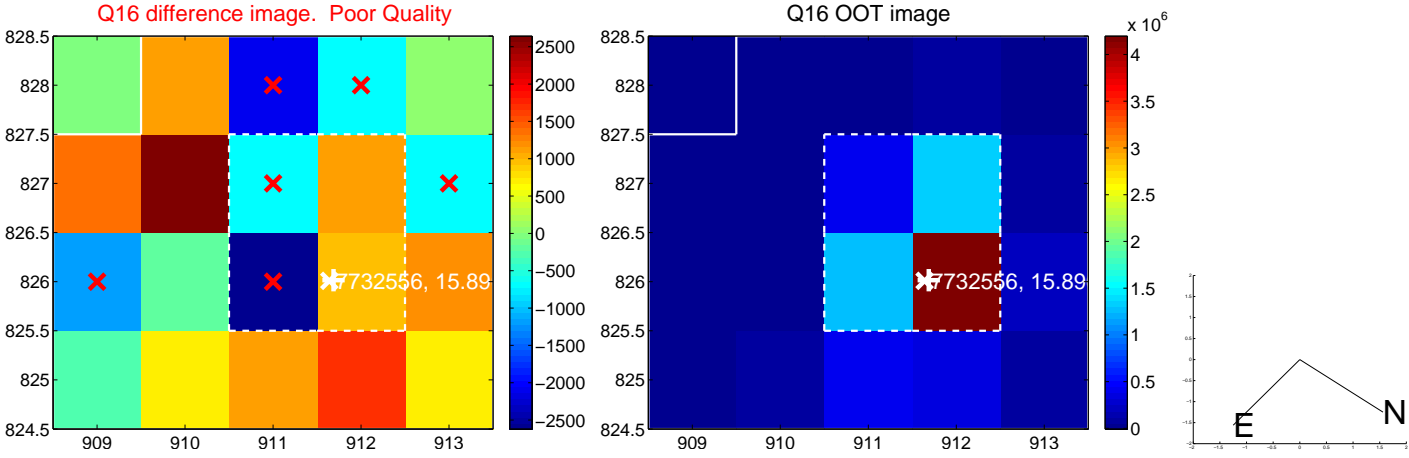
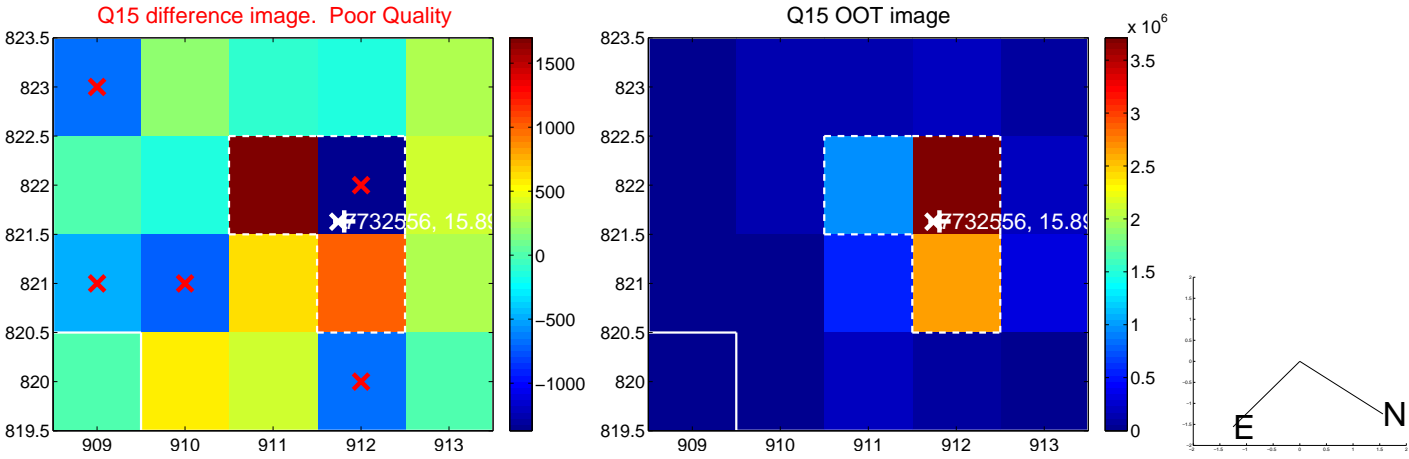
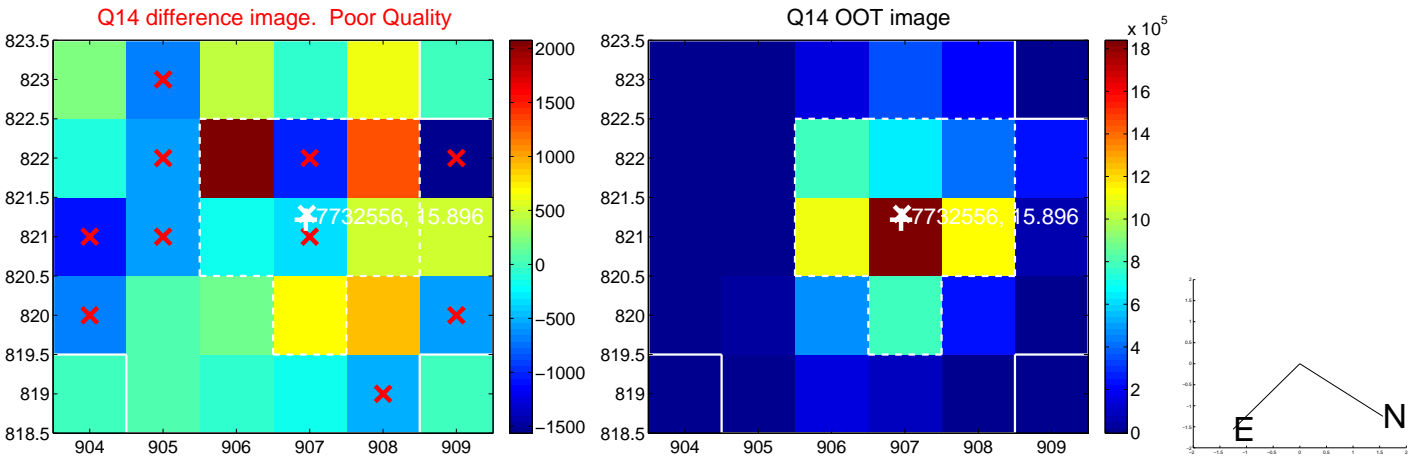
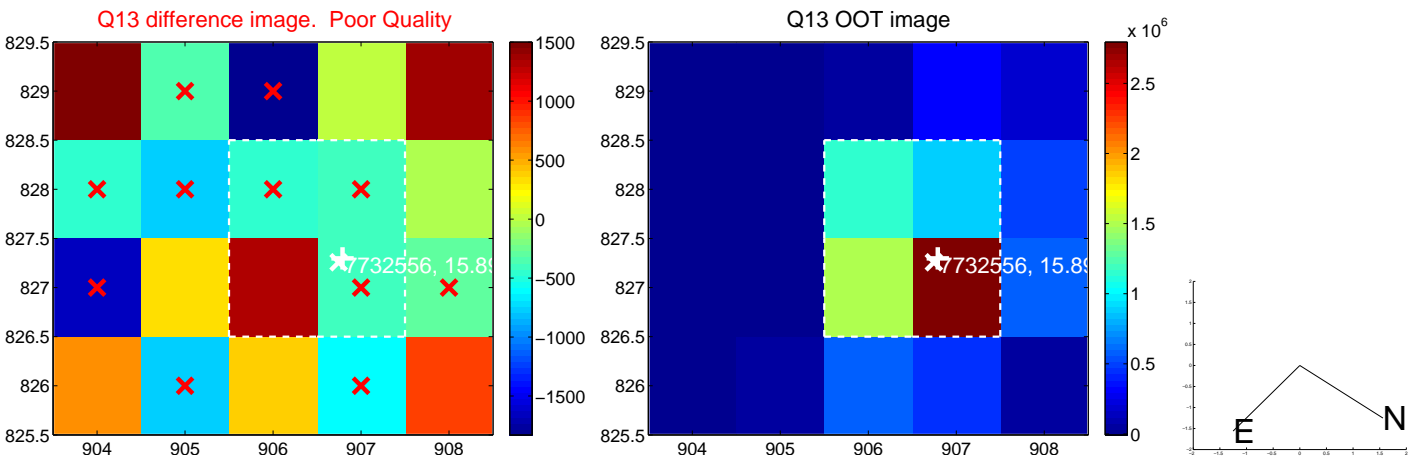
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



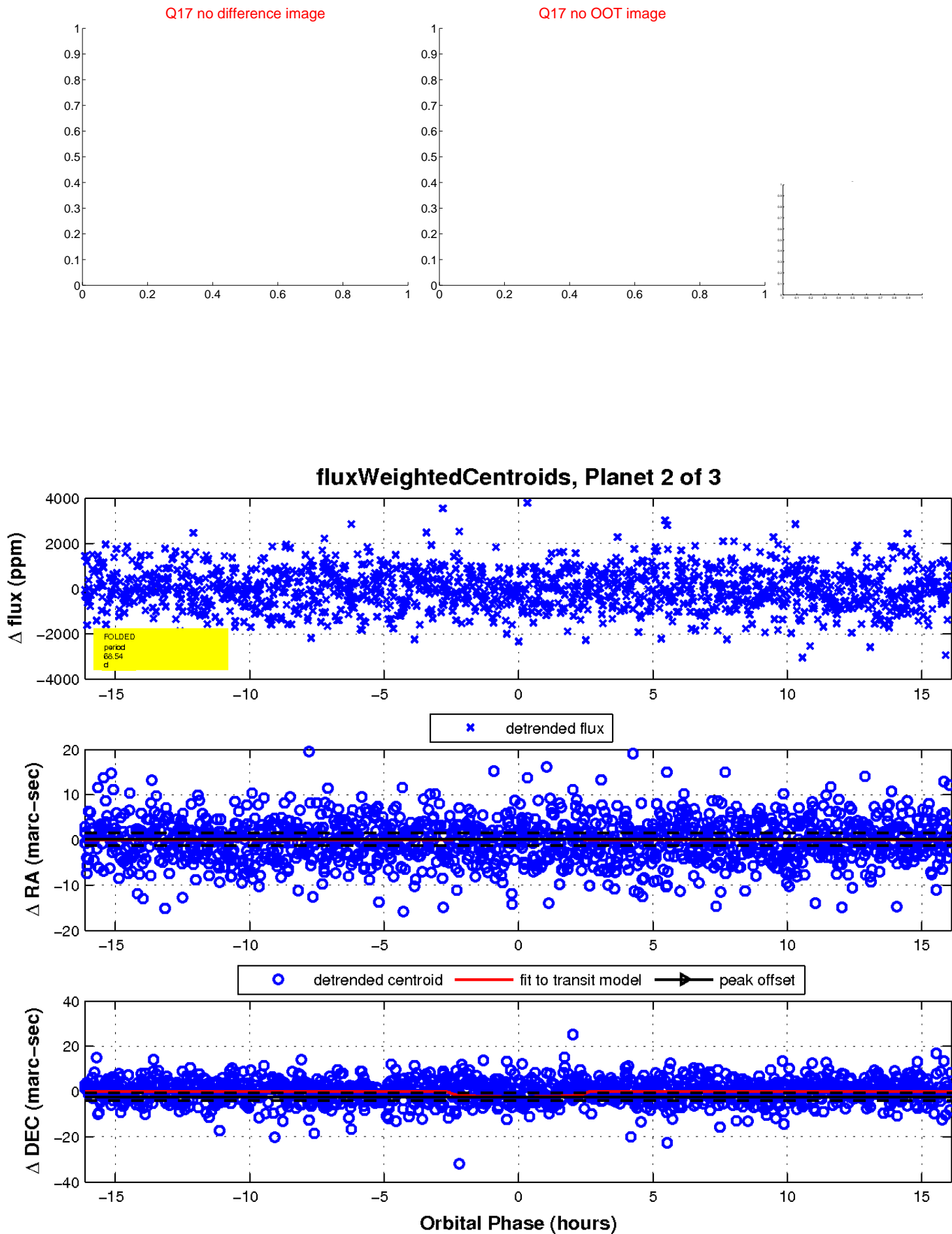
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

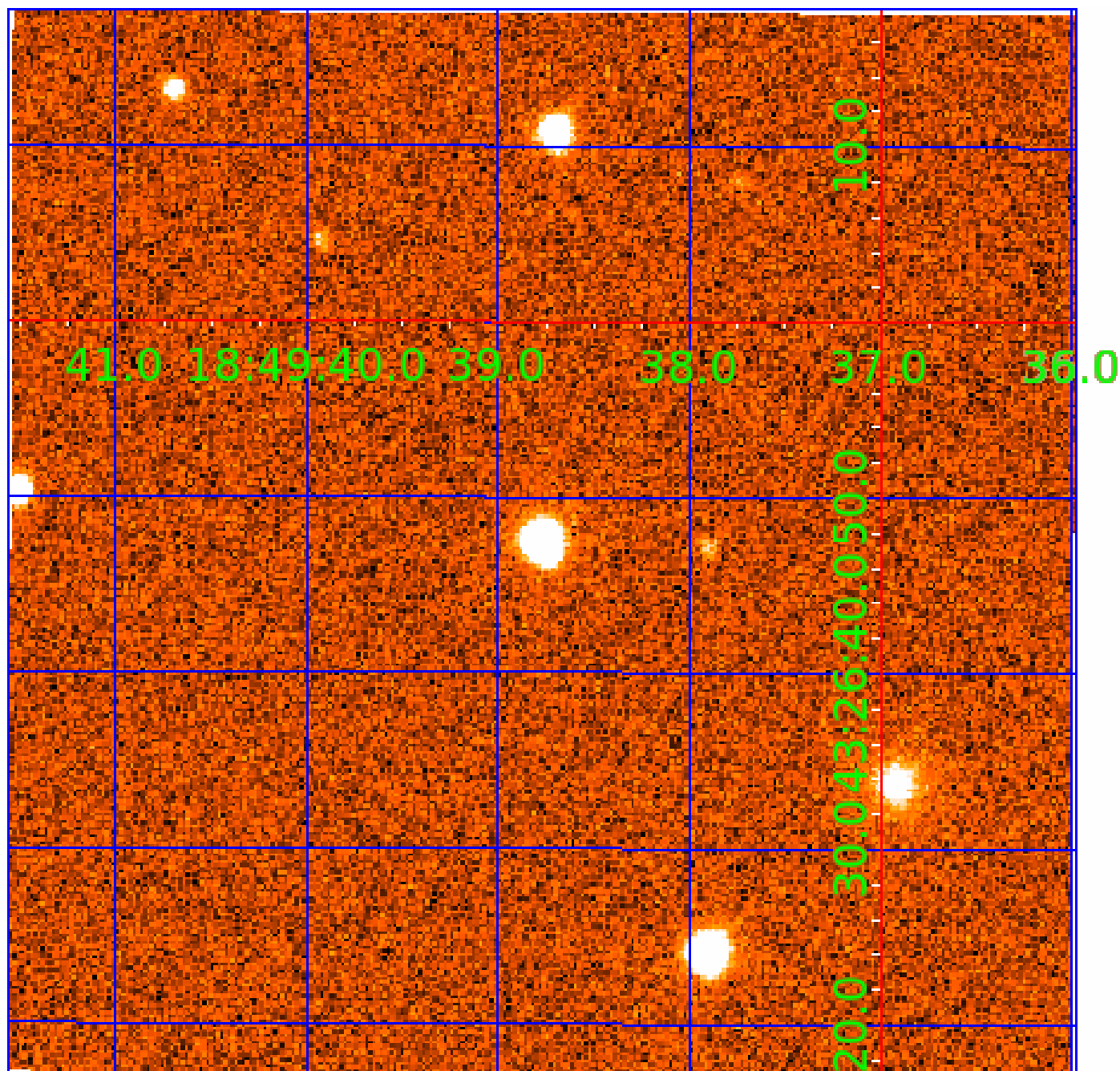


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007732556

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})
007732556-01	OBS	No	0.613889	132.097489	51.8	3.601	8.5	5.2	0.68	4328	0.48	947.61
007732556-02	OBS	No	68.535028	159.083895	1440.1	5.375	12.7	8.3	0.68	4328	2.66	1.76
007732556-03	OBS	No	33.424355	160.846282	1388.8	3.010	8.6	9.3	0.68	4328	3.51	4.59

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007732556-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
007732556-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
007732556-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS

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

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

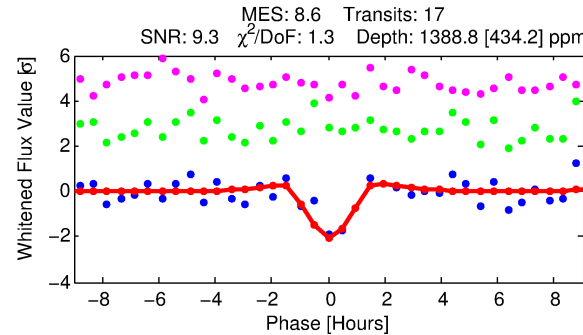
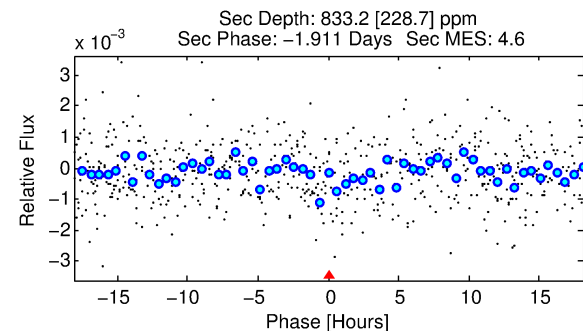
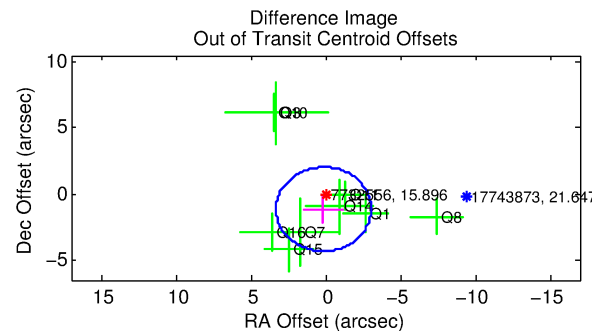
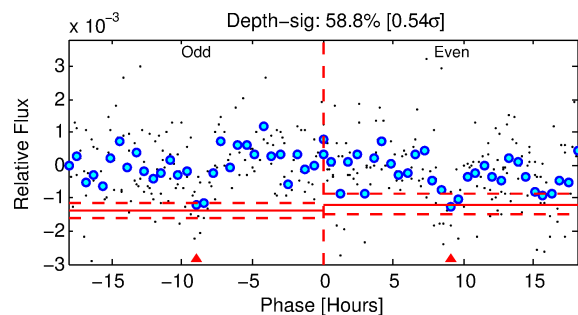
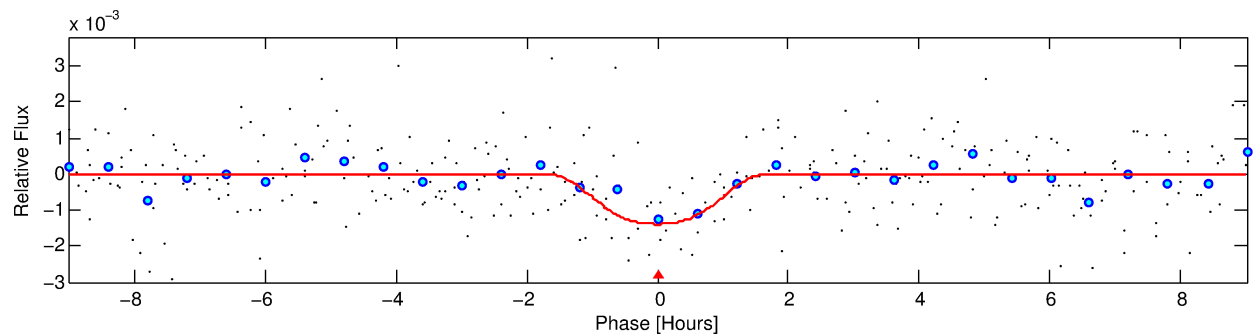
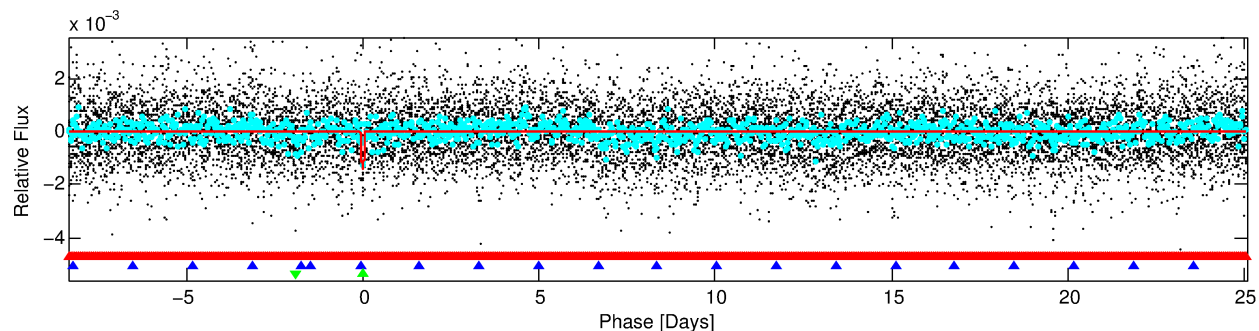
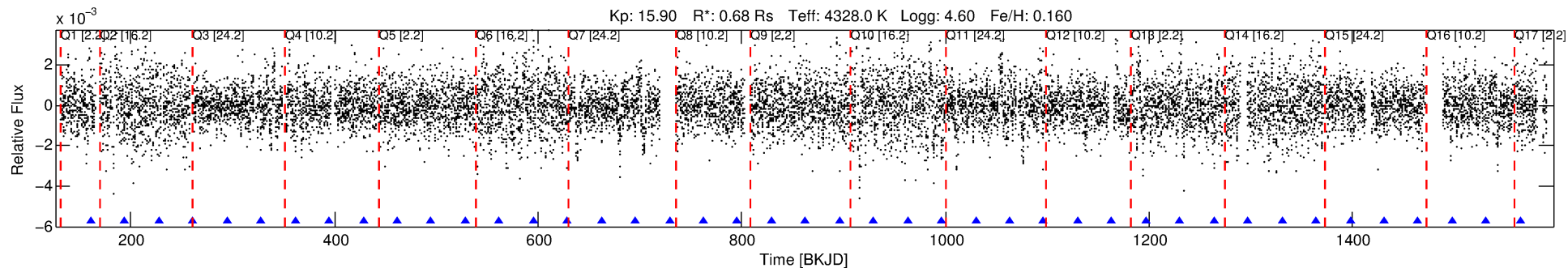
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007732556-03

No Significant Match Found

DV One-Page Summary

KIC: 7732556 Candidate: 3 of 3 Period: 33.424 d



DV Fit Results:

Period = 33.42436 [0.00035] d
Epoch = 160.8463 [0.0083] BKJD
Rp/R* = 0.0470 [0.0158]
a/R* = 36.74 [14.00]
b = 0.95 [0.06]
Seff = 4.59 [0.74]
Teq = 373 [15] K
Rp = 3.51 [1.21] Re
a = 0.1790 [0.0120] AU
Ag = 1194.28 [874.64] [1.36 σ]
Teffp = 3393 [626] K [4.82 σ]

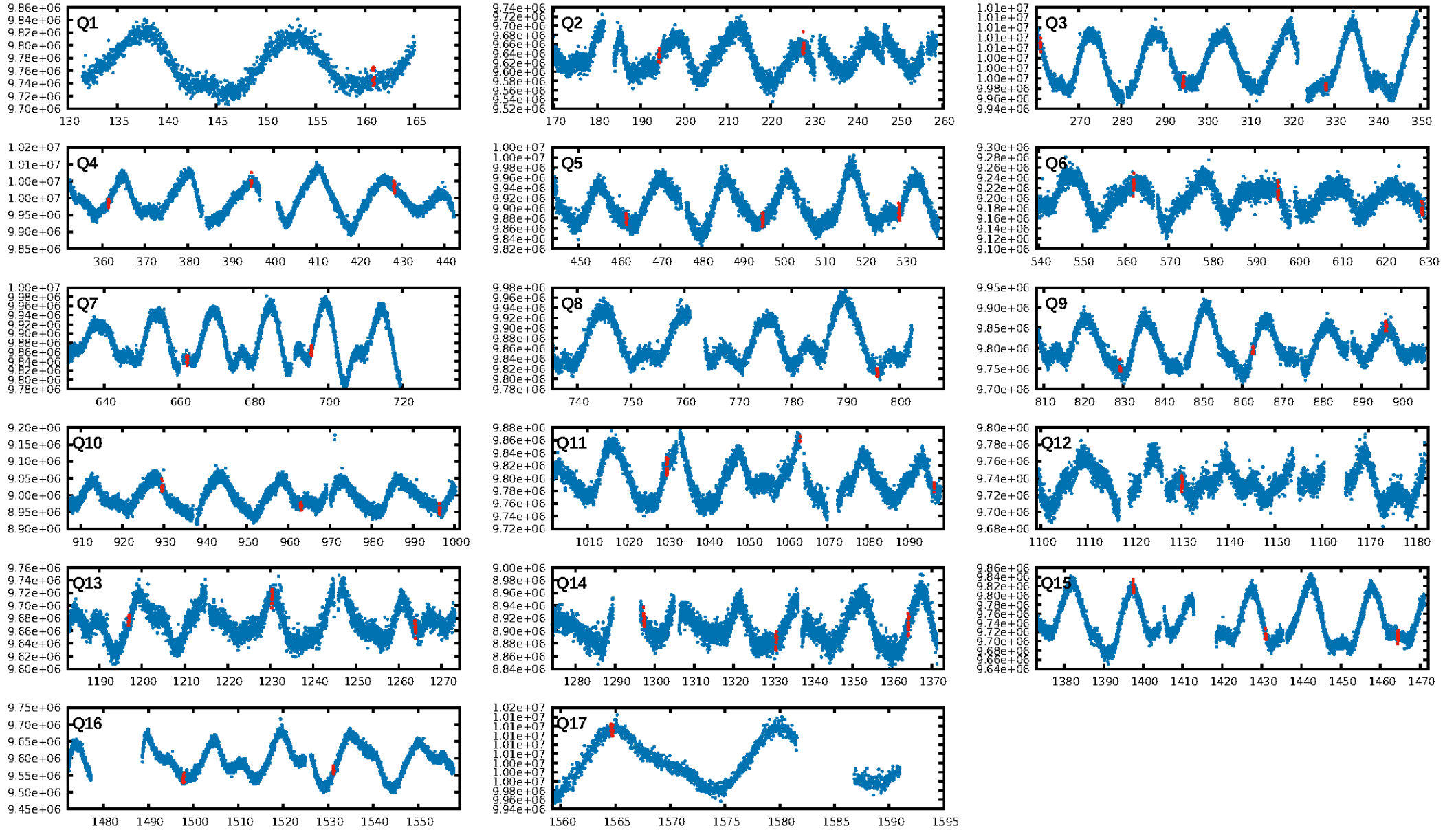
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [167.79 σ]
LongPeriod-sig: 100.0% [136.80 σ]
ModelChiSquare2-sig: 17.6%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 8.76e-12
RollingBand-fgt: 1.00 [16/16]
GhostDiagnostic-chr: 1.035
Centroid-sig: 0.2%
Centroid-so: 2.099 arcsec [2.20 σ]
OotOffset-rm: 1.155 arcsec [1.09 σ]
OotOffset-st: 2/4/2/1 [9]
KicOffset-rm: 1.016 arcsec [0.95 σ]
KicOffset-st: 2/4/2/1 [9]
DiffImageQuality-fgm: 0.11 [1/9]
DiffImageOverlap-fno: 0.00 [0/16]

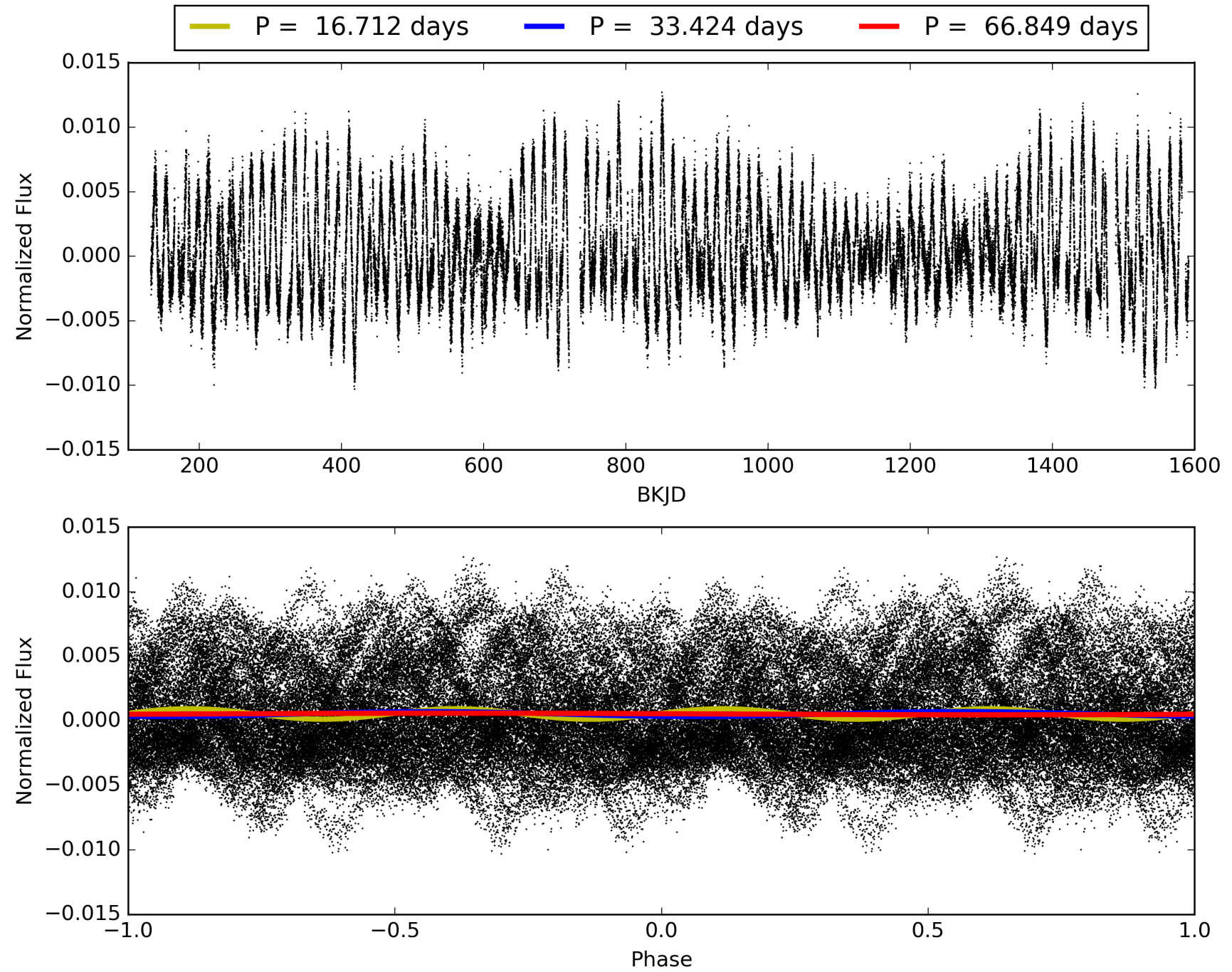
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 10:28:56 Z

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

TCE 007732556-03, PDC Light Curves

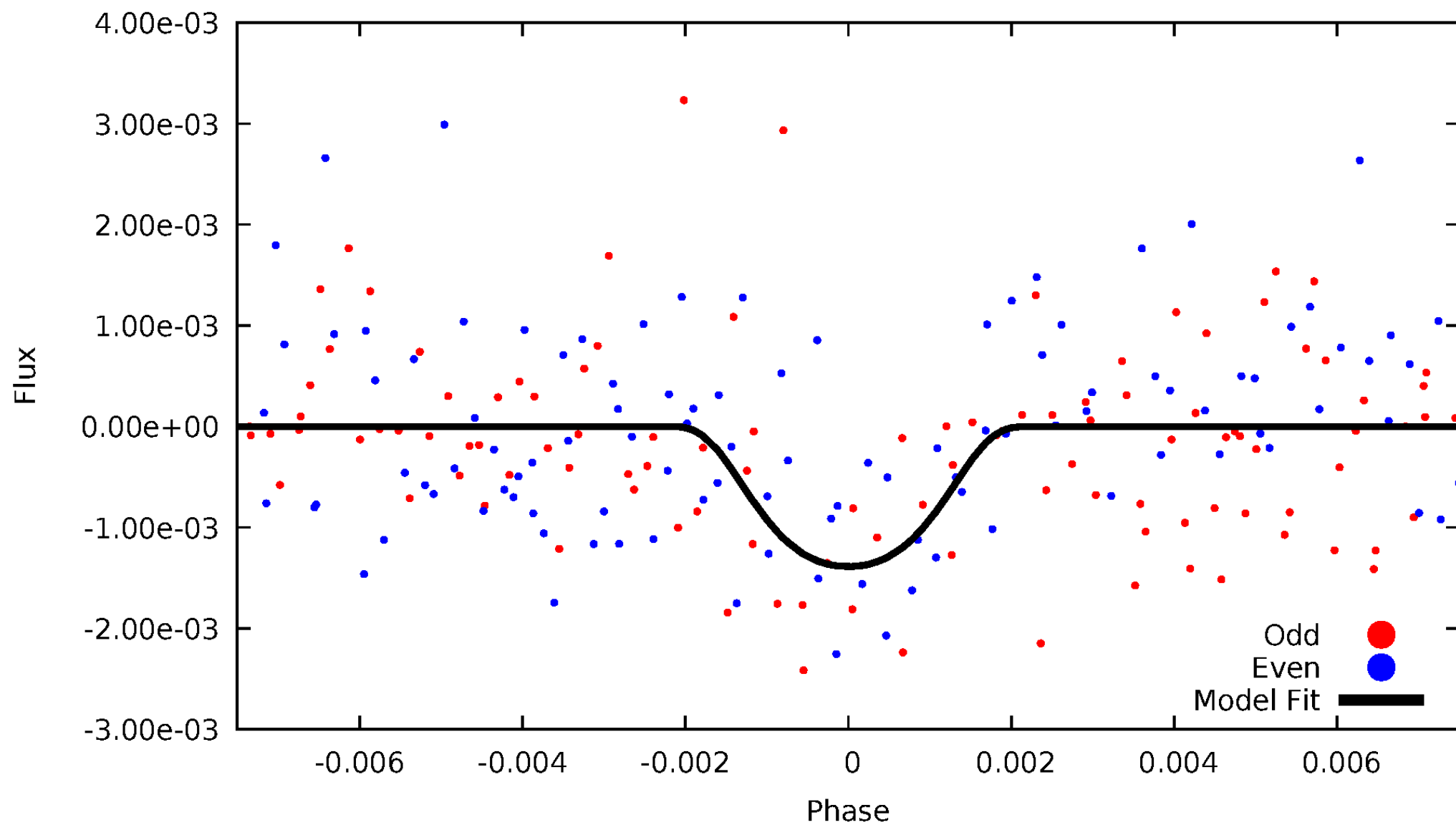


TCE 007732556-03



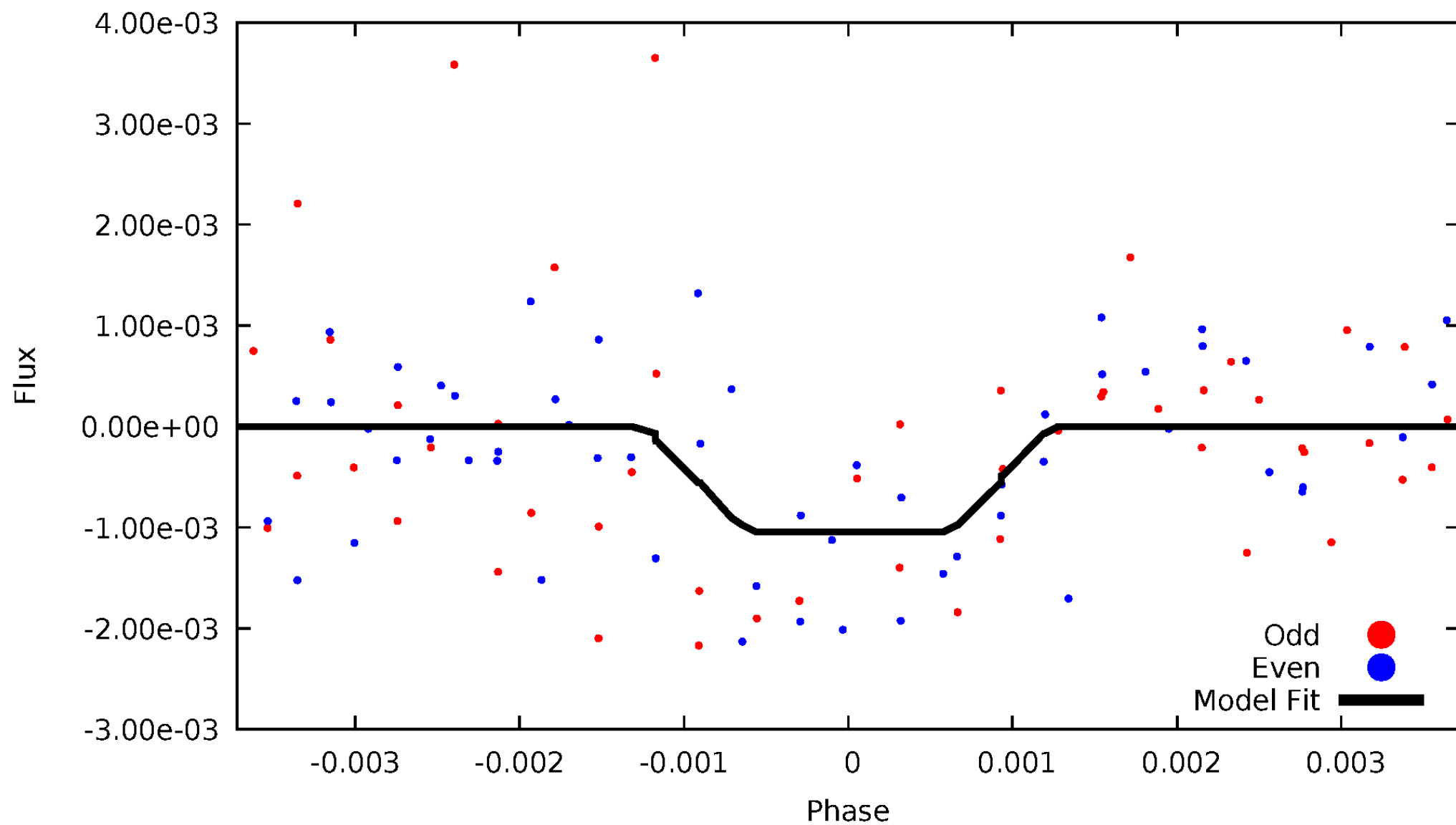
DV Odd/Even

TCE 007732556-03



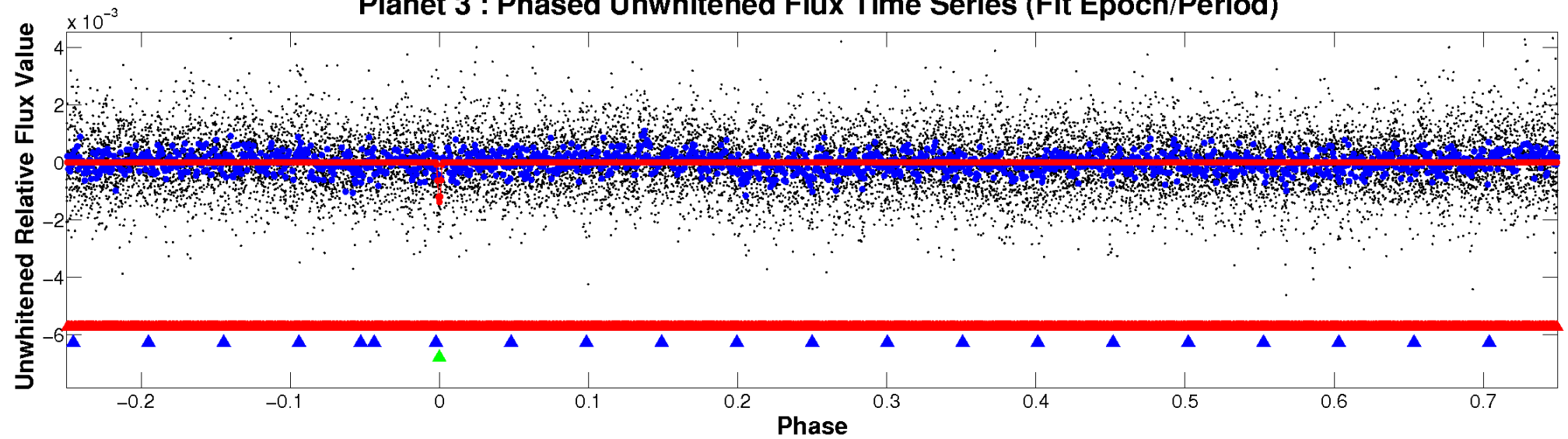
ALT Odd/Even

TCE 007732556-03

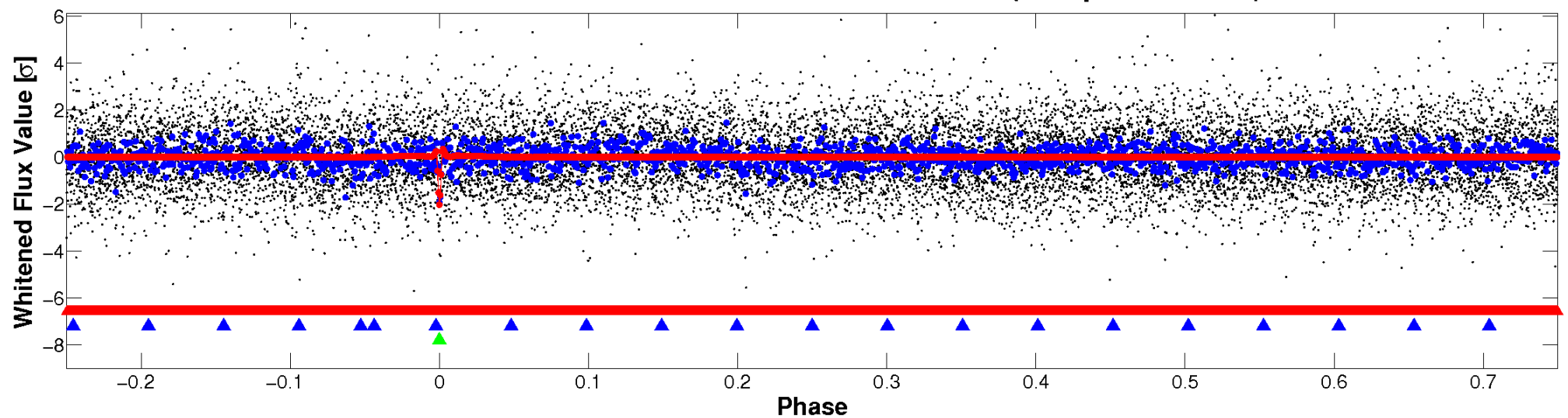


Non-Whitened Vs. Whitened Light Curve

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

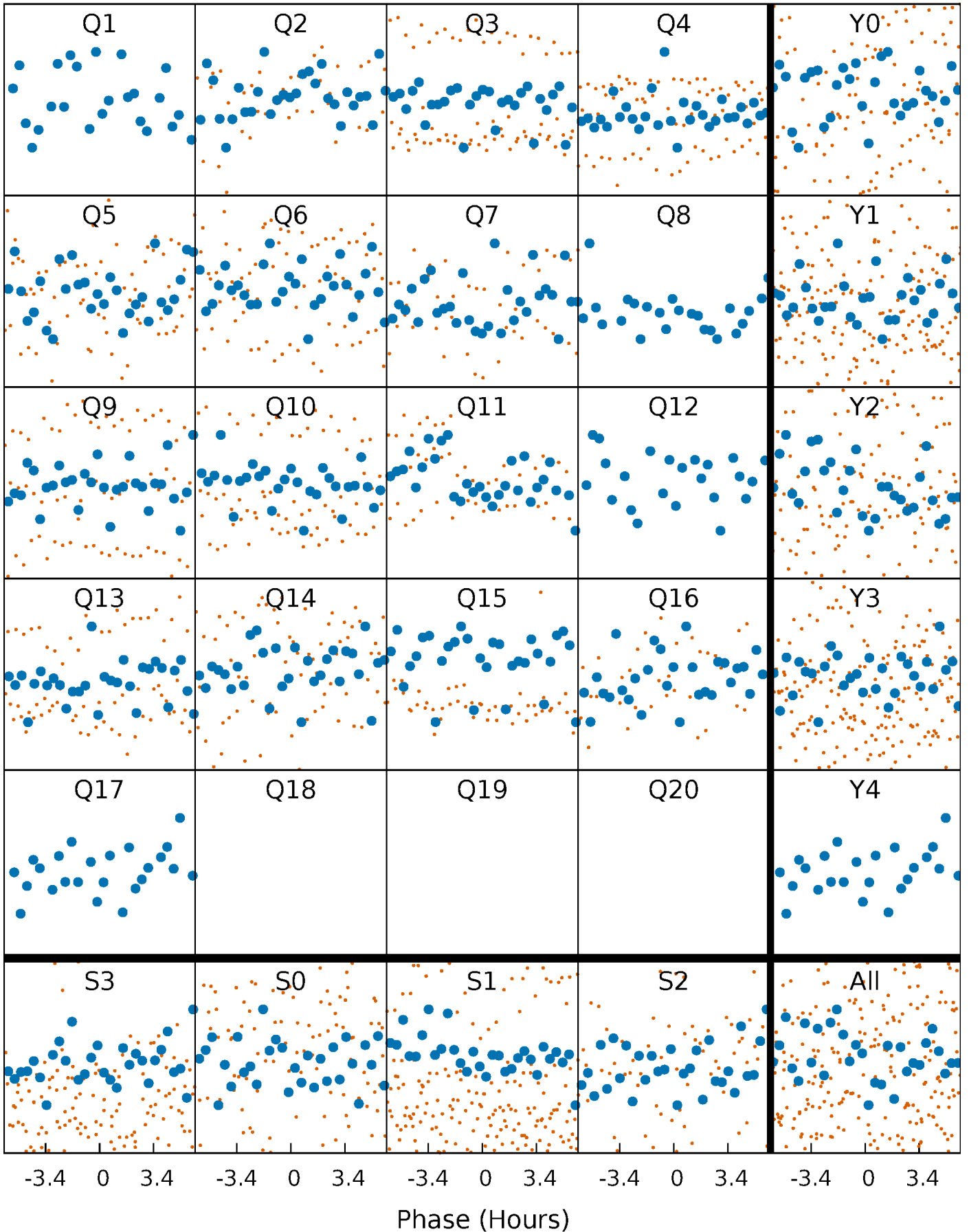


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



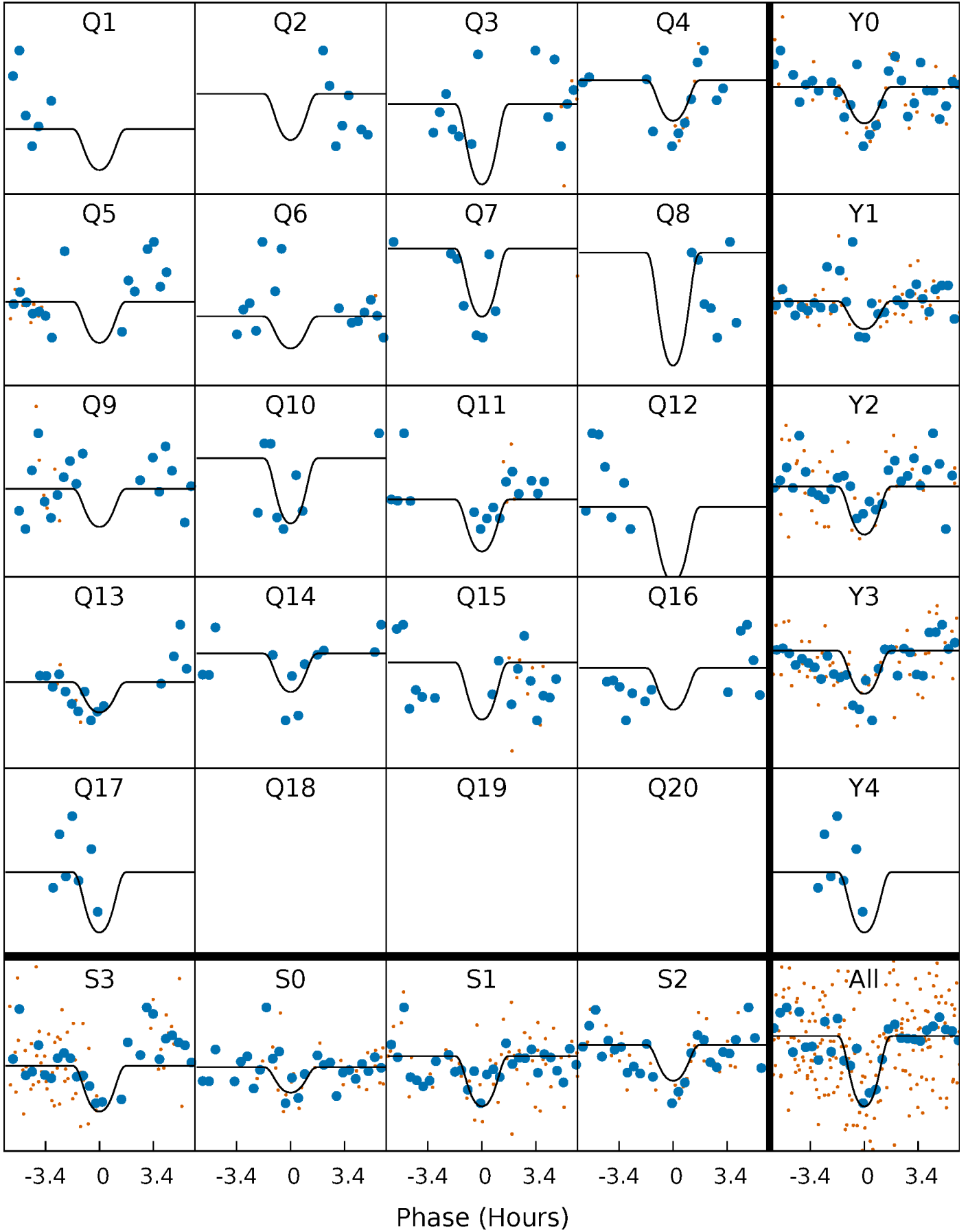
PDC Quarter-Phased Transit Curves

TCE 007732556-03 P= 33.424355 Days $T_0=160.846282$ (BKJD)



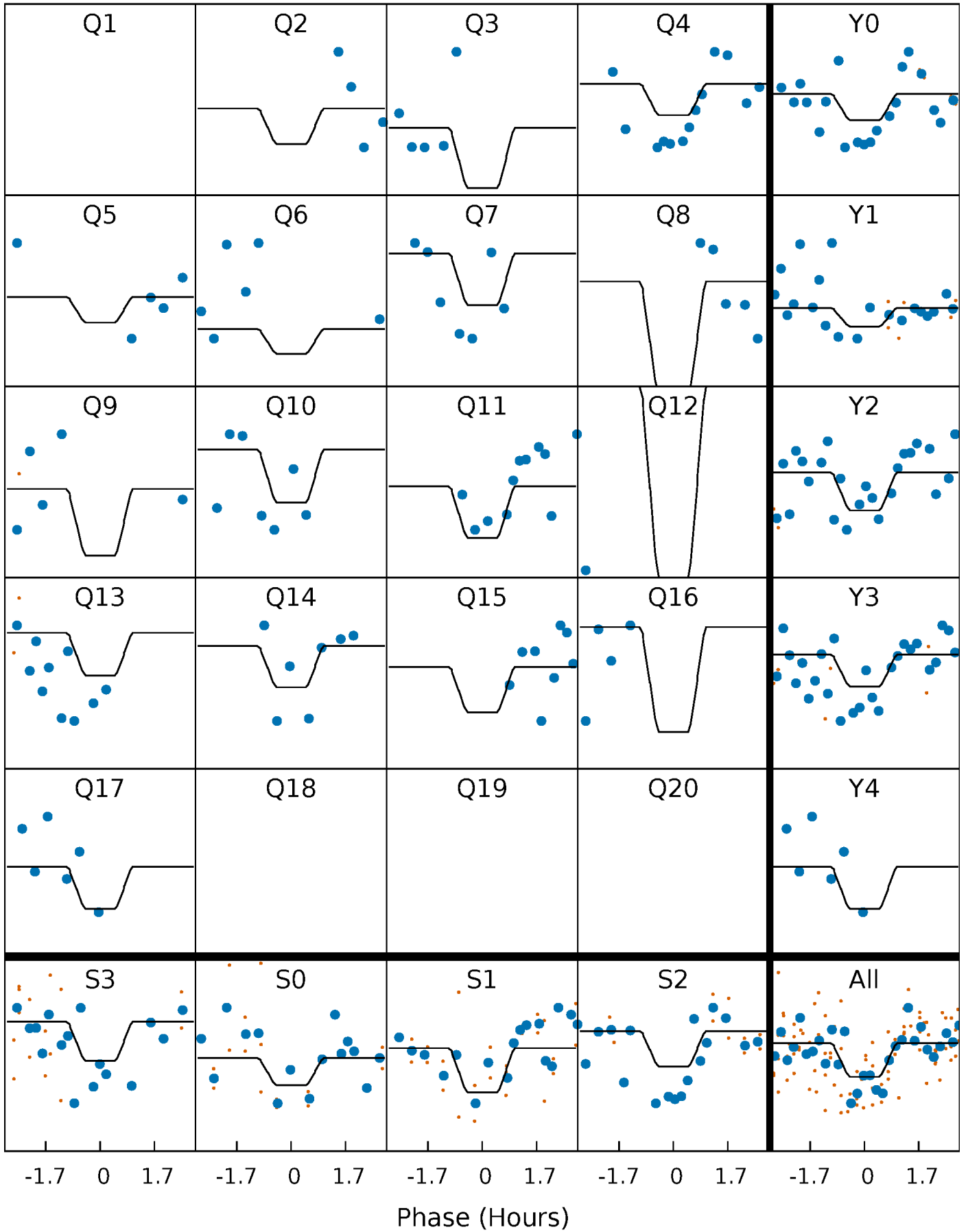
DV Quarter-Phased Transit Curves

TCE 007732556-03 P= 33.424355 Days $T_0=160.846282$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

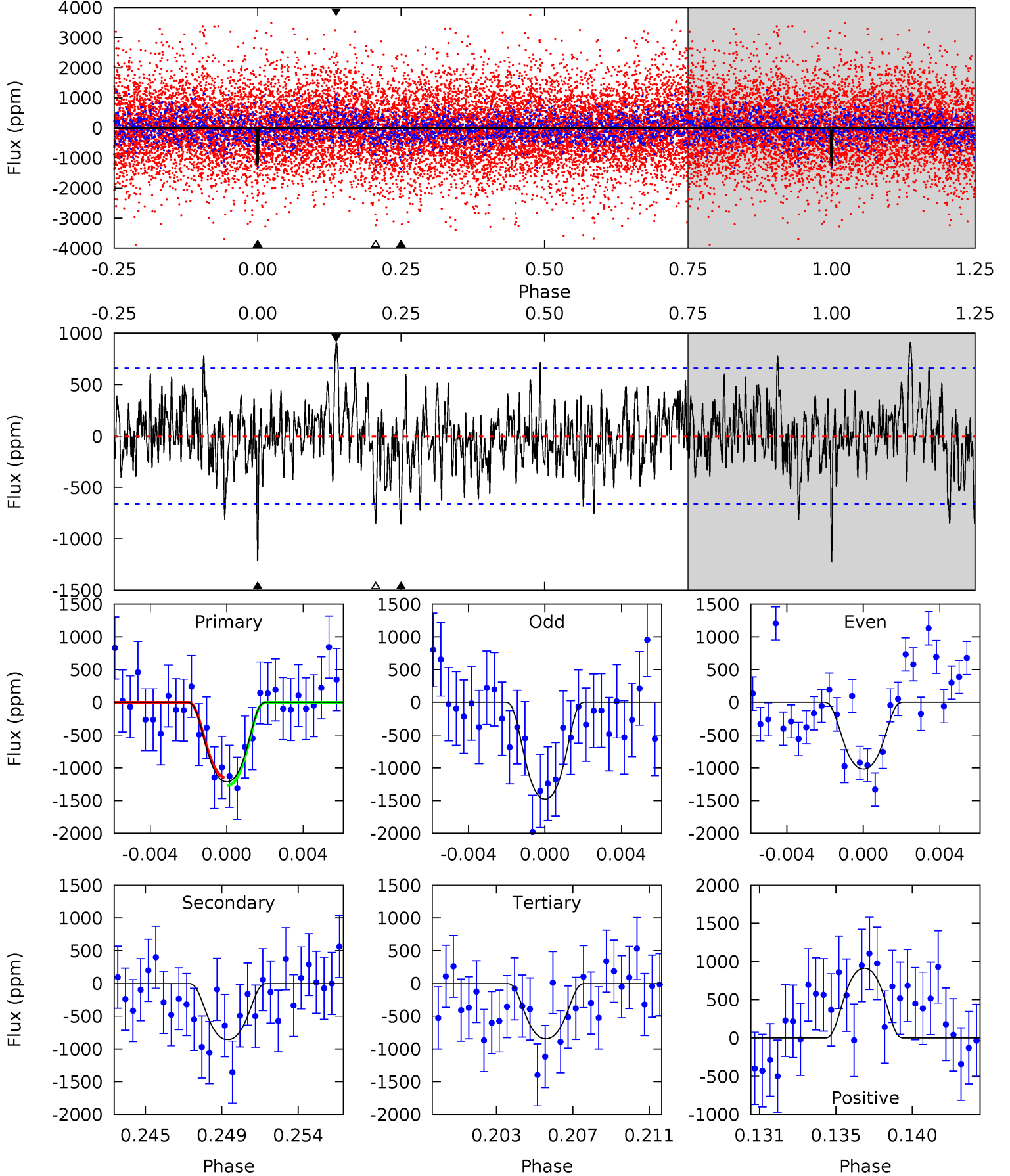
TCE 007732556-03 P= 33.423789 Days $T_0=160.866319$ (BKJD)



DV Model-Shift Uniqueness Test

007732556-03, P = 33.424355 Days, E = 127.421927 Days

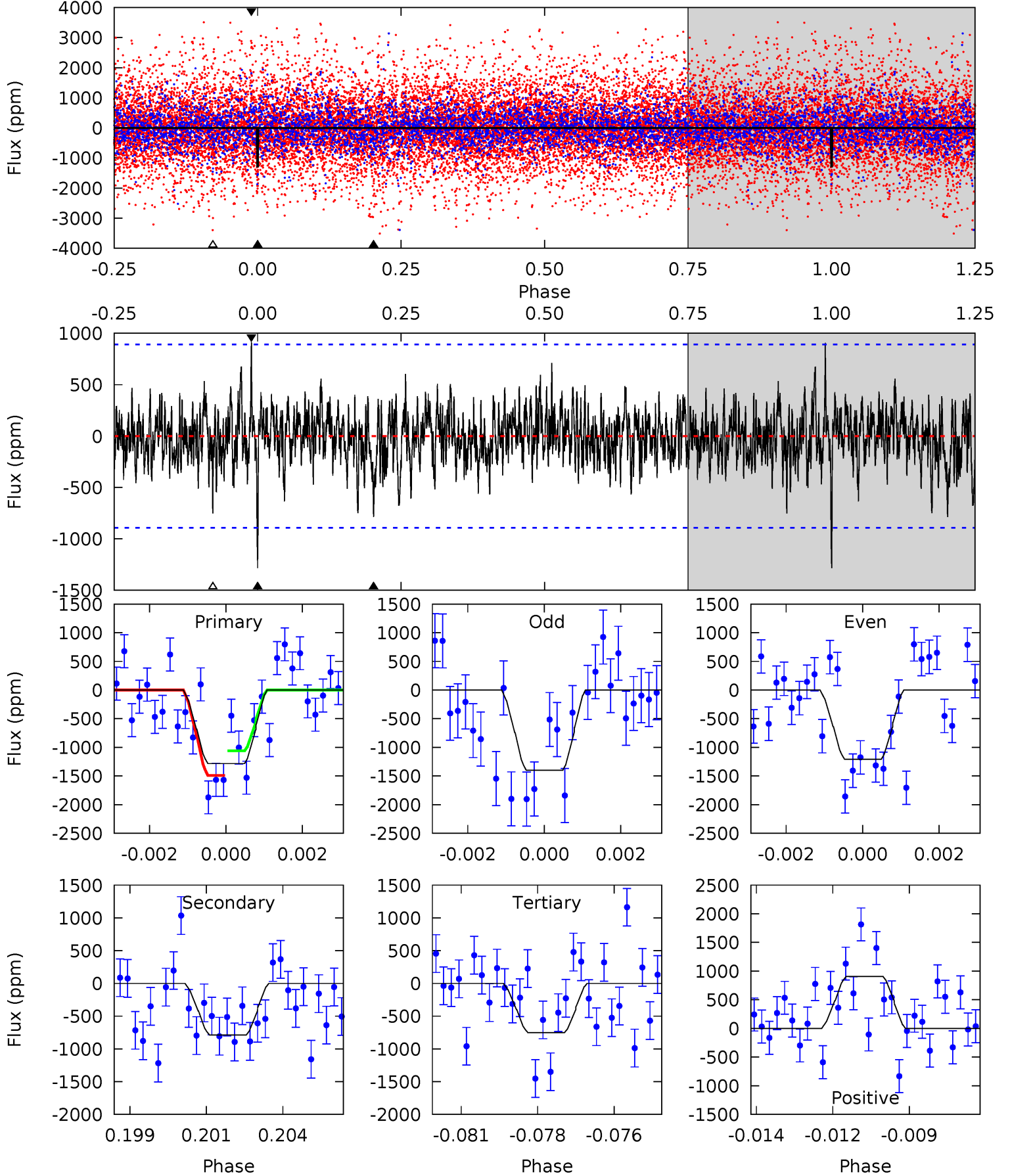
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.54	6.75	6.64	7.17	5.19	2.86	1.98	2.90	2.37	0.11	-0.42	1.76	0.46	0.43	0.48



Alt Model-Shift Uniqueness Test

007732556-03, P = 33.423789 Days, E = 127.442530 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.62	4.68	4.46	5.39	5.30	3.04	1.25	3.16	2.23	0.22	-0.71	0.56	1.01	0.41	1.28



Stellar Parameters For KIC 007732556

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4328^{+129}_{-142}	$4.603^{+0.049}_{-0.017}$	$0.160^{+0.250}_{-0.300}$	$0.684^{+0.028}_{-0.057}$	$0.683^{+0.047}_{-0.057}$	$3.010^{+0.689}_{-0.238}$
	+3%/-3%	+1%/-0%	+156%/-188%	+4%/-8%	+7%/-8%	+23%/-8%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007732556-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-859 ± 127	$3.49^{+1.21}_{-1.24}$	517^{+17}_{-18}	3670^{+568}_{-366}	1264^{+1613}_{-596}
Alt.	-788 ± 168	$2.44^{+1.24}_{-1.12}$	519^{+18}_{-18}	4111^{+1084}_{-611}	2325^{+5752}_{-1337}

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

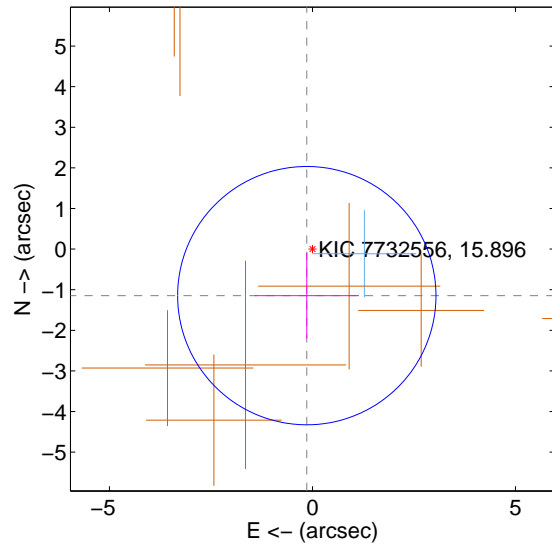
Supplemental centroid analysis for 007732556-03. Kepler magnitude: 15.90. Transit SNR 9.34

There are 1 quarters with good PRF difference image offsets

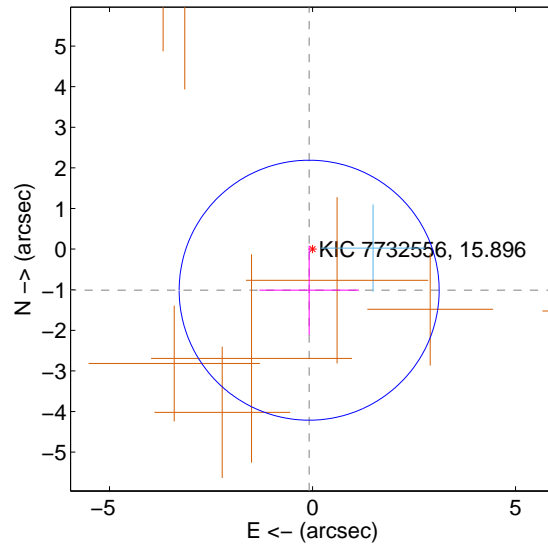
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.155 ± 1.060	1.09	0.139 ± 1.287	-1.146 ± 1.057
PRF-fit source offset from KIC position	1.016 ± 1.067	0.95	0.083 ± 1.227	-1.013 ± 1.097
photometric centroid source offset	2.10 ± 0.96	2.20	0.09 ± 0.90	2.10 ± 0.96

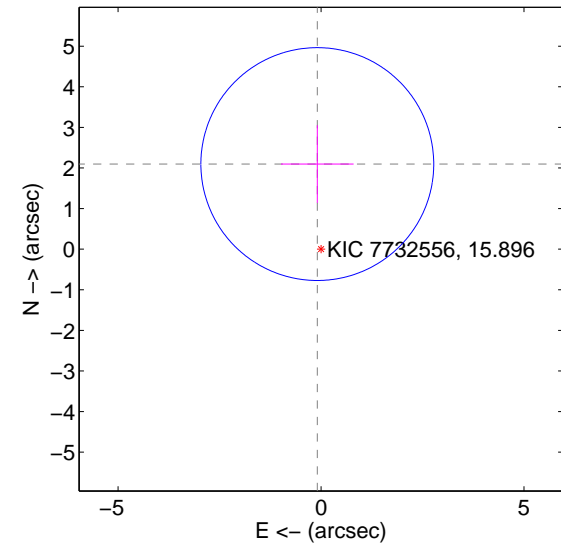
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

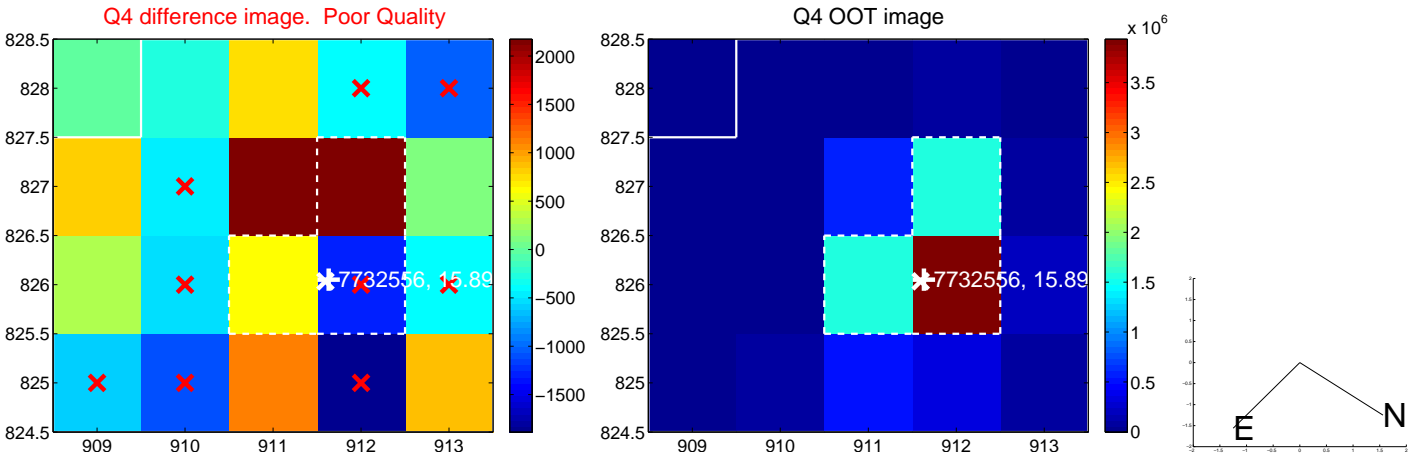
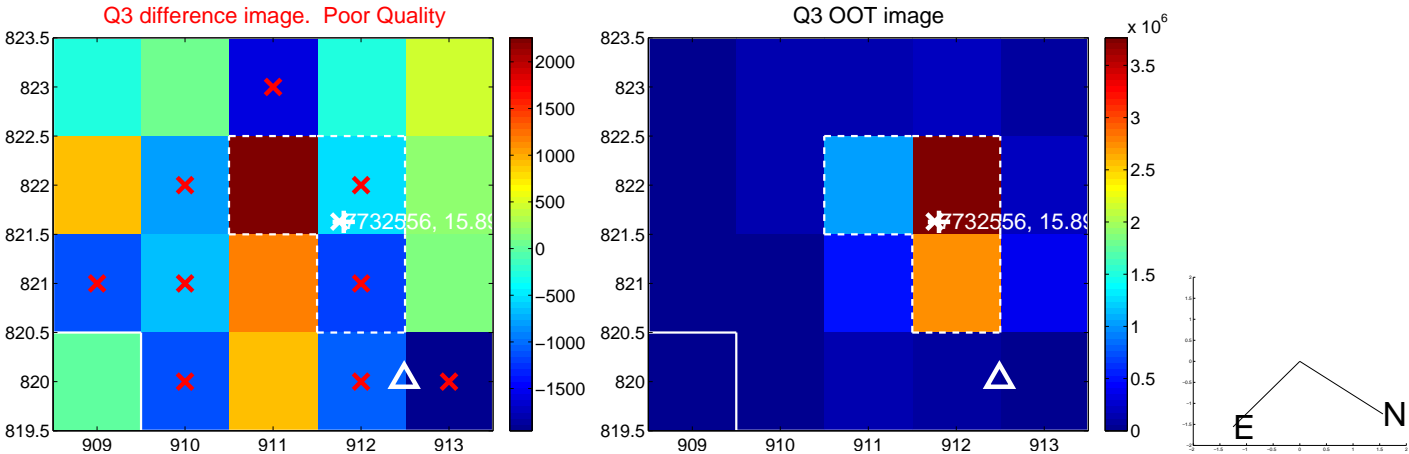
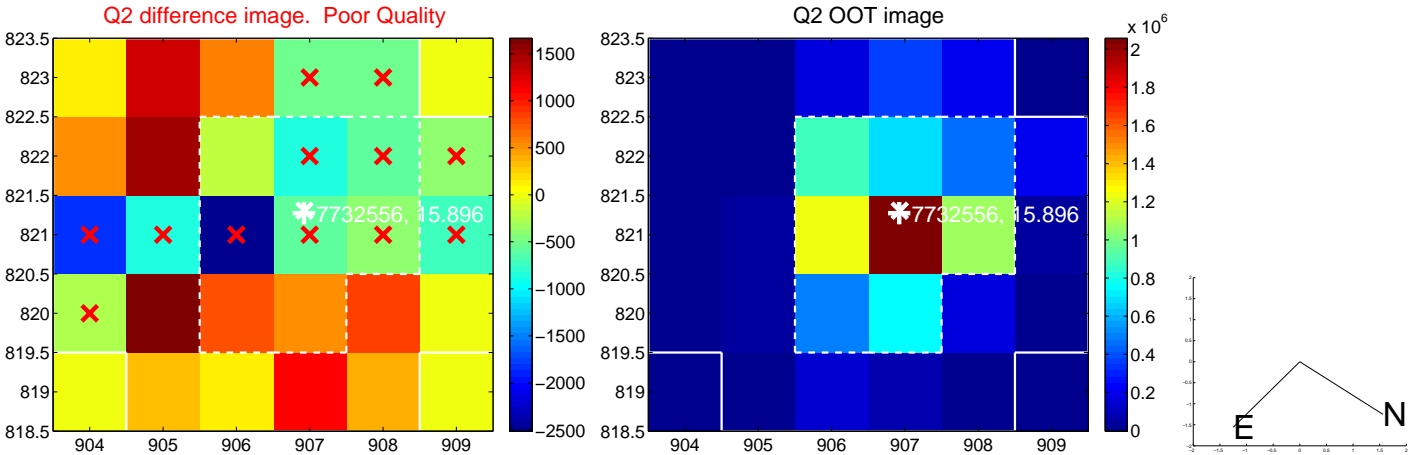
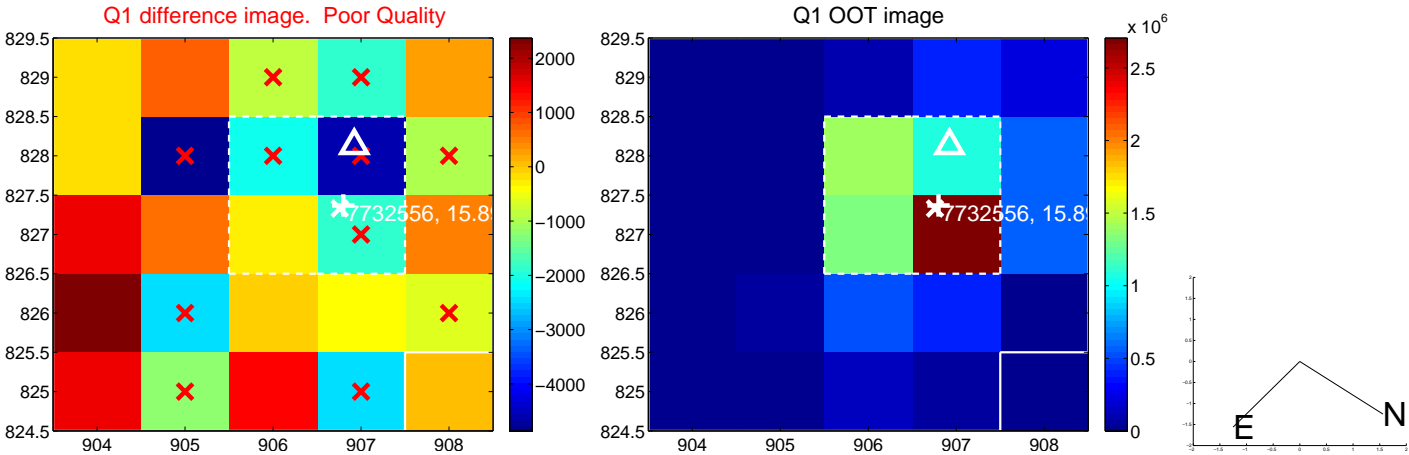


offset from photometric centroids

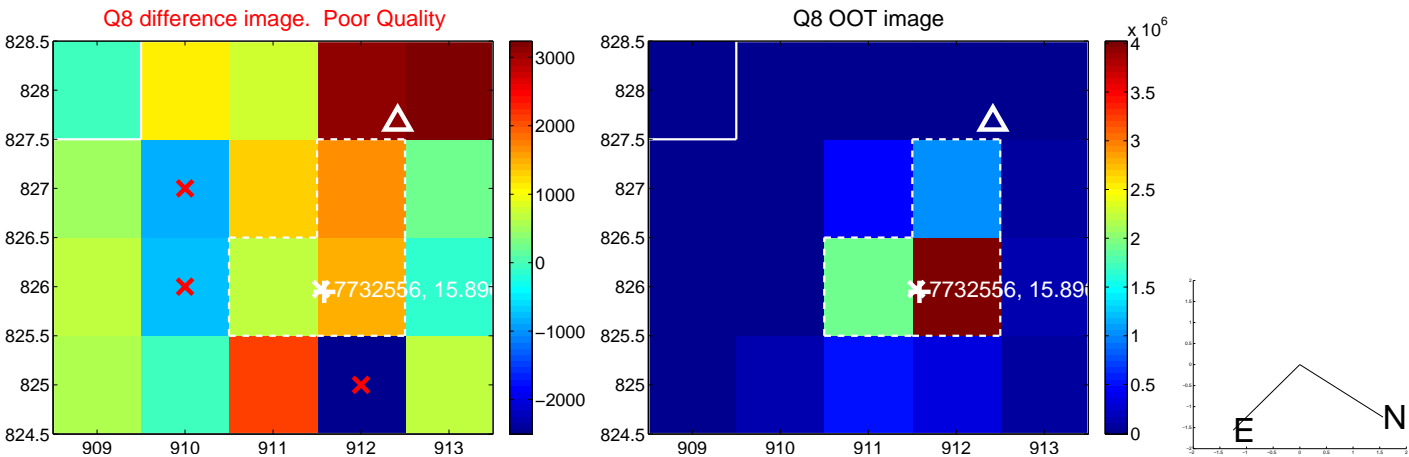
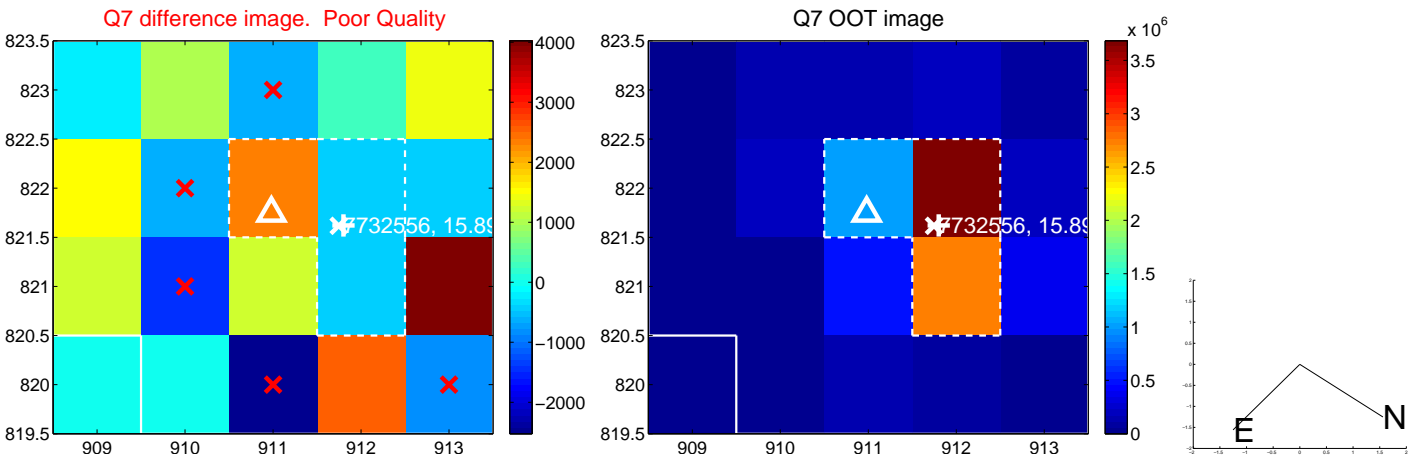
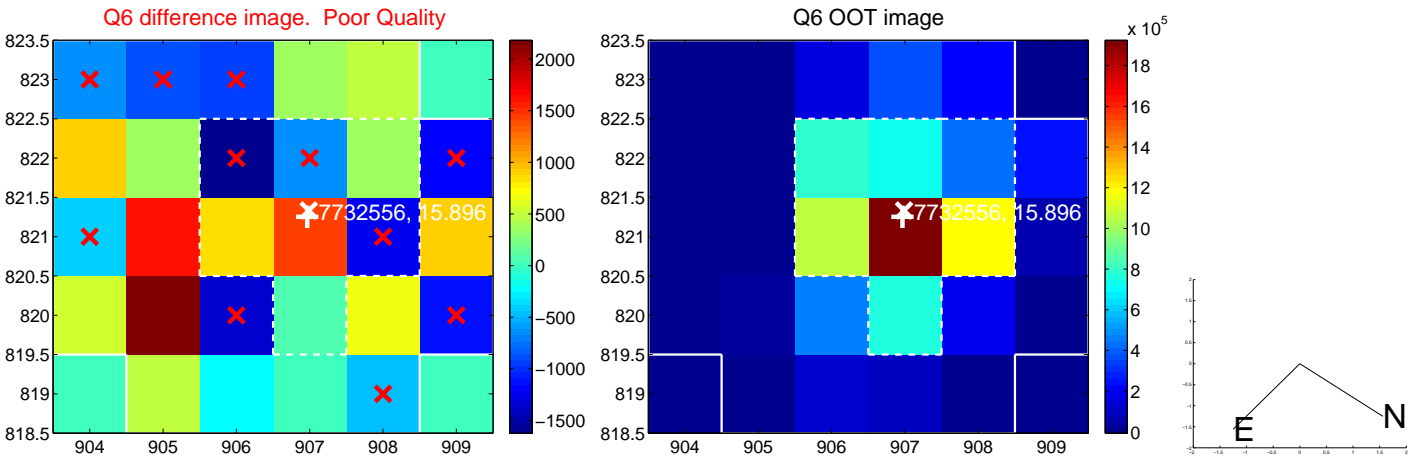
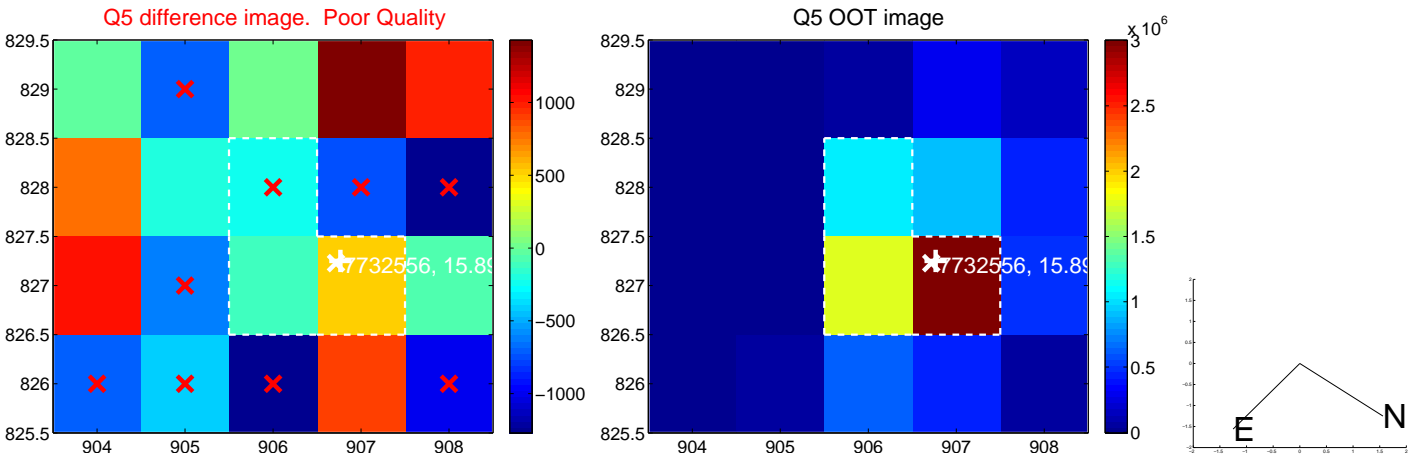


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

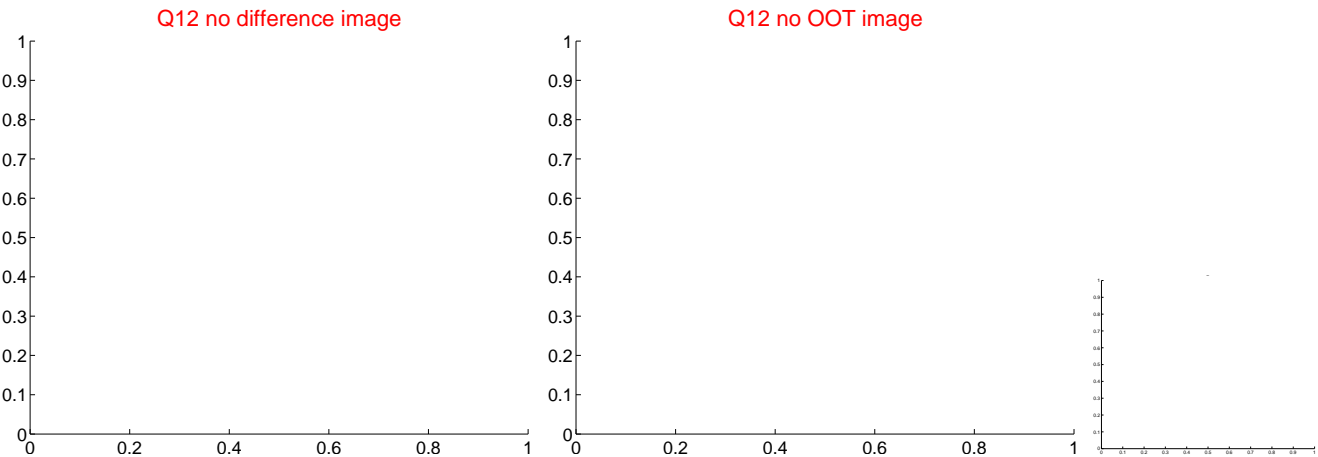
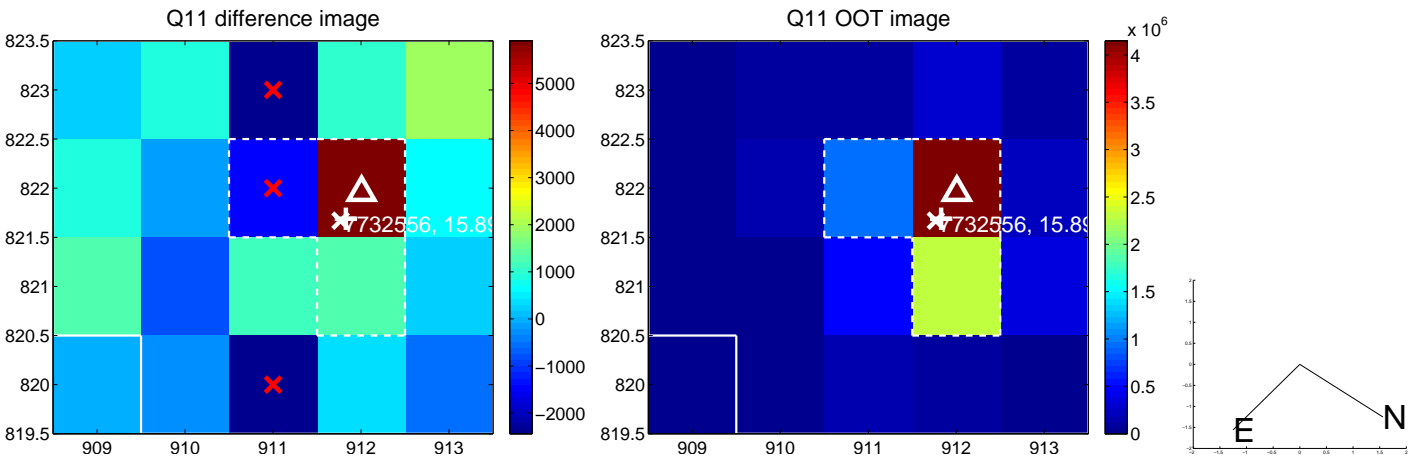
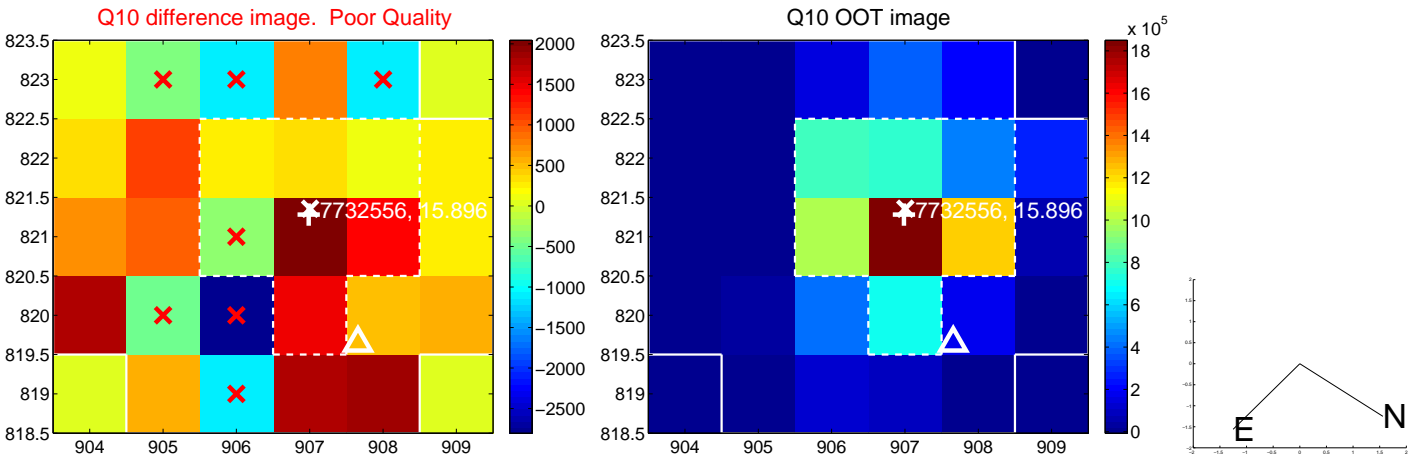
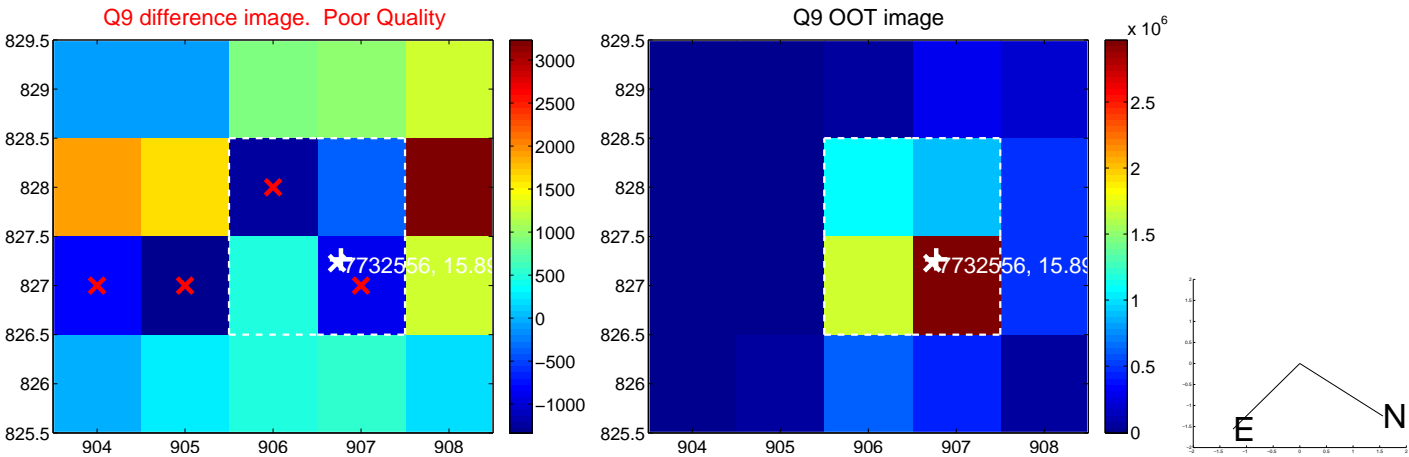
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



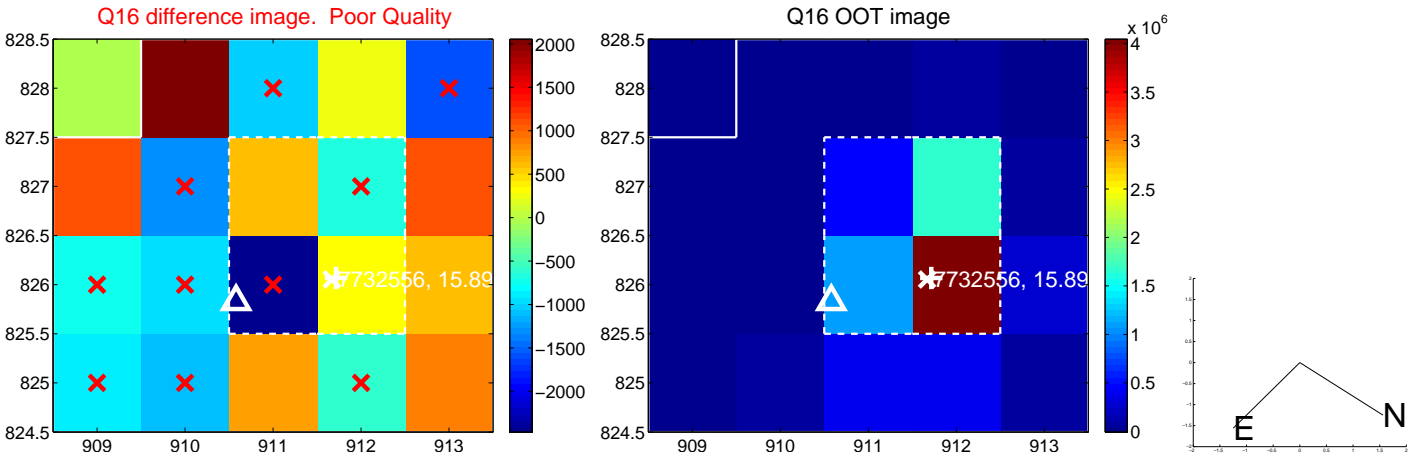
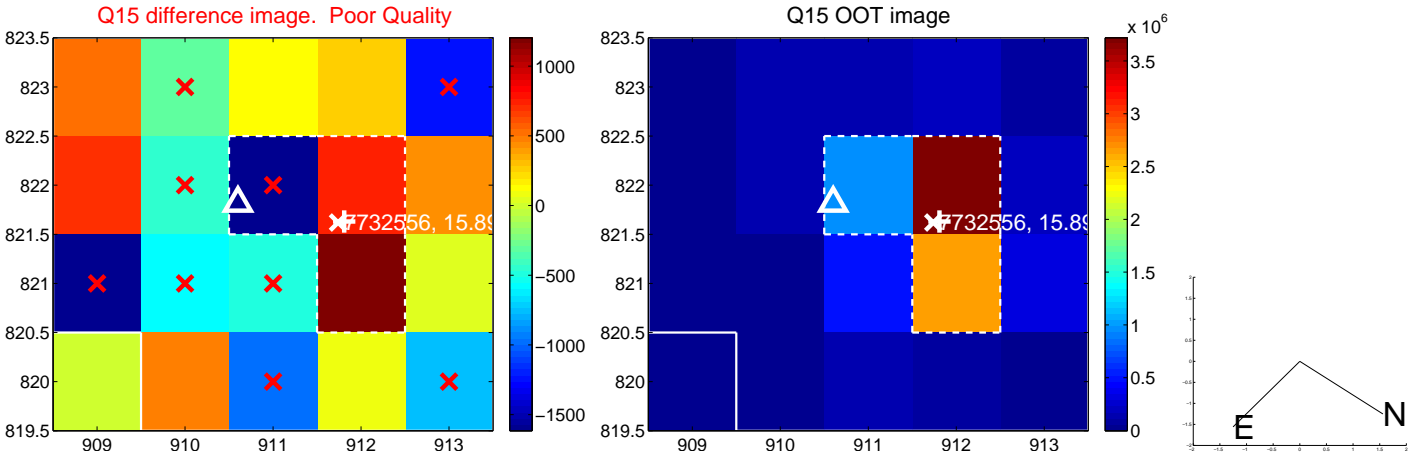
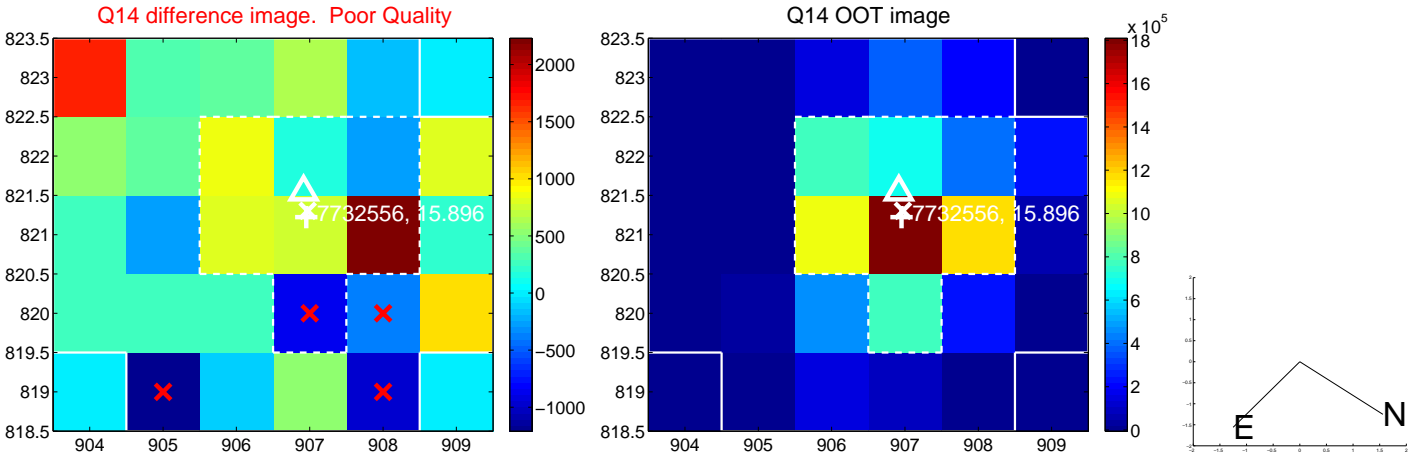
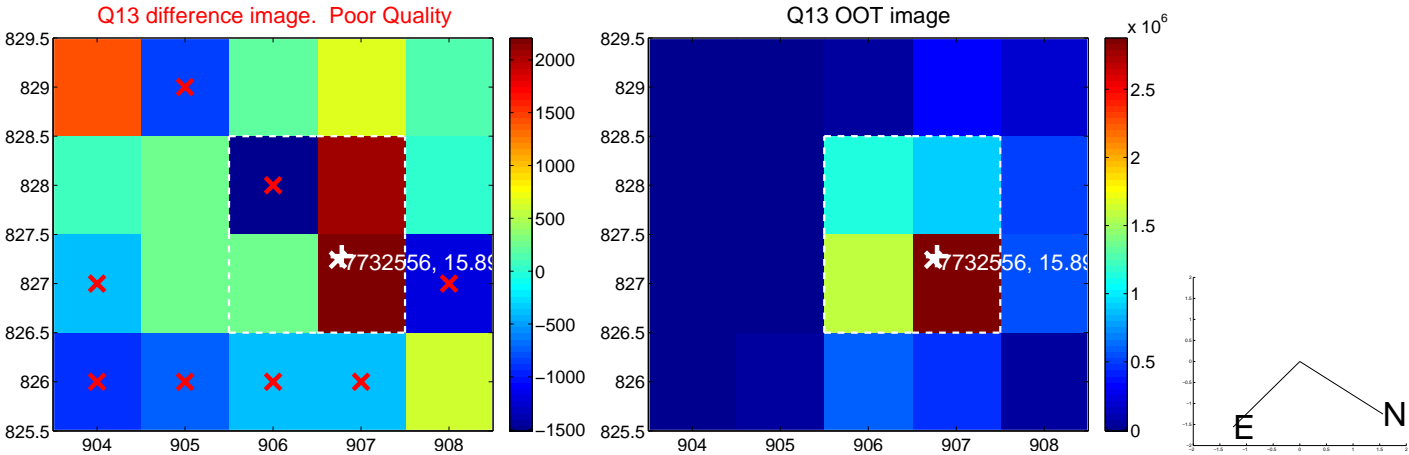
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



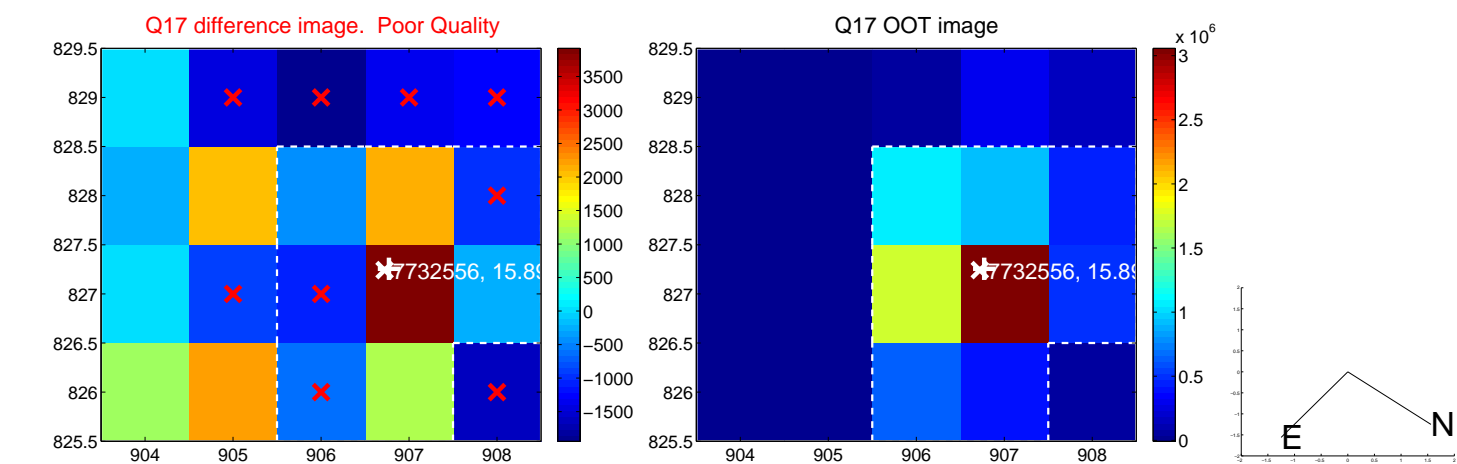
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



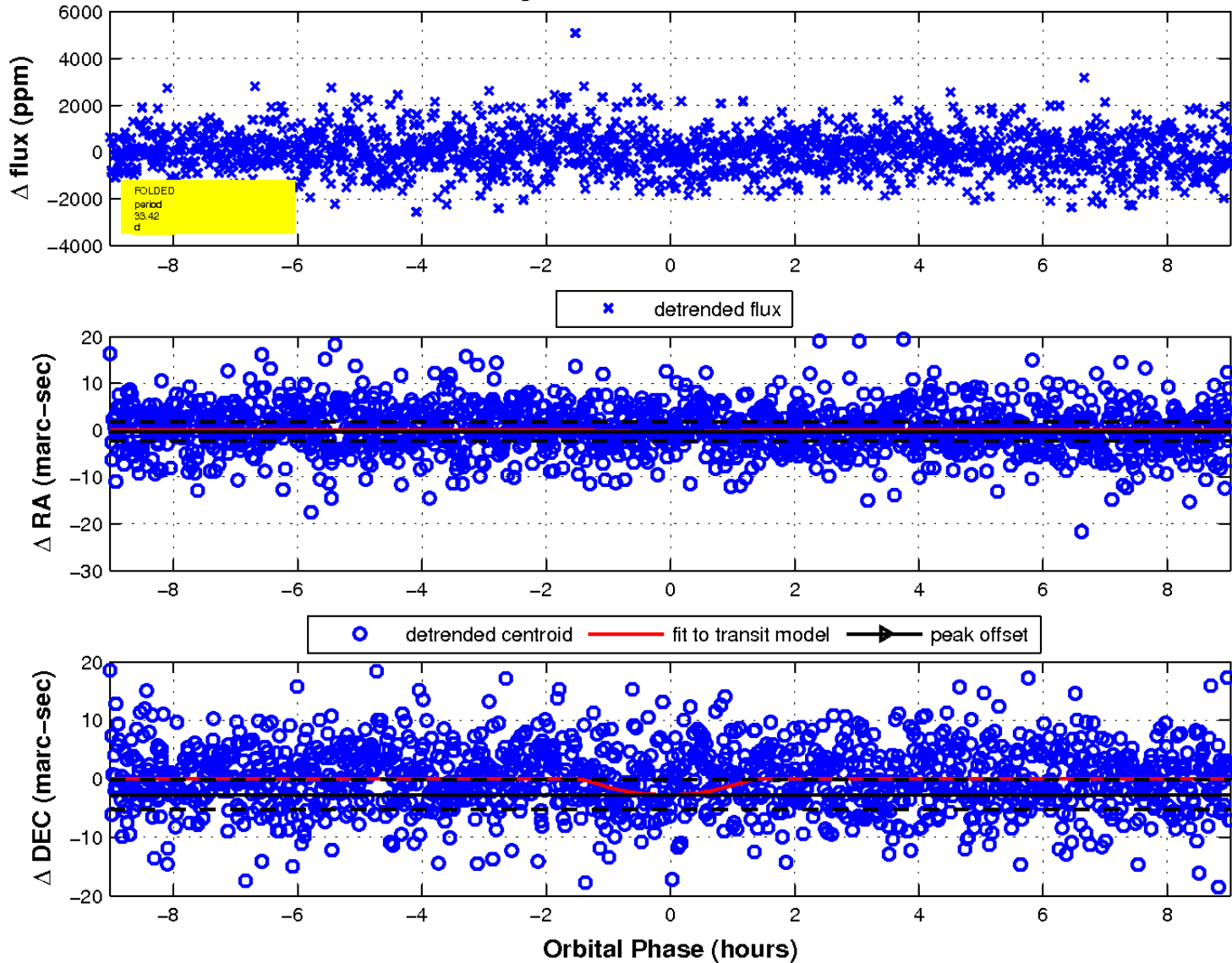
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

