

KIC 007668911

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})
007668911-01	OBS	No	2.633491	131.687535	20.3	6.785	10.1	8.6	1.46	6742	0.81	2397.98
007668911-02	OBS	No	2.633732	132.126409	26.4	4.439	9.4	11.2	1.46	6742	0.88	2397.68
007668911-04	OBS	No	211.442658	195.134093	154.6	9.879	8.2	7.0	1.46	6742	2.00	6.92
007668911-05	OBS	No	89.803845	154.233544	116.3	3.838	7.8	8.1	1.46	6742	1.88	21.68
007668911-06	OBS	No	258.003167	376.148277	137.0	11.434	7.6	6.5	1.46	6742	1.72	5.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007668911-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007668911-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
007668911-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—CENT_SATURATED
007668911-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
007668911-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

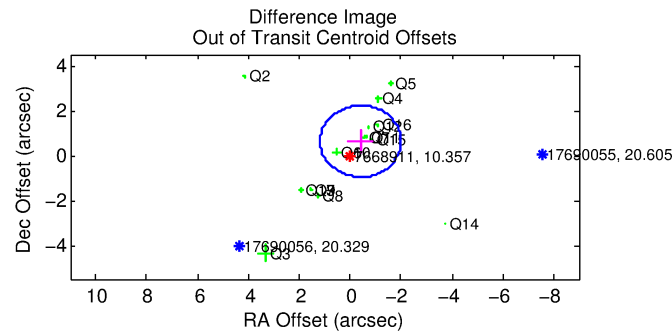
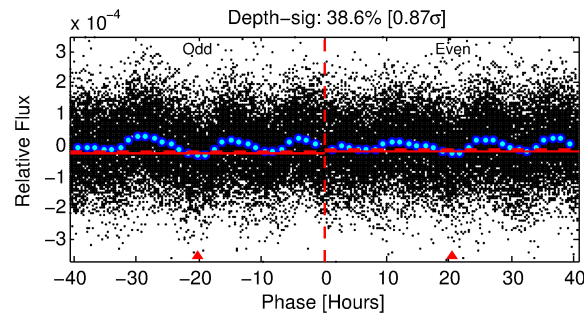
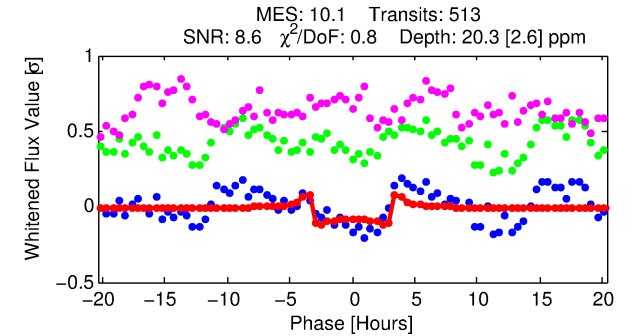
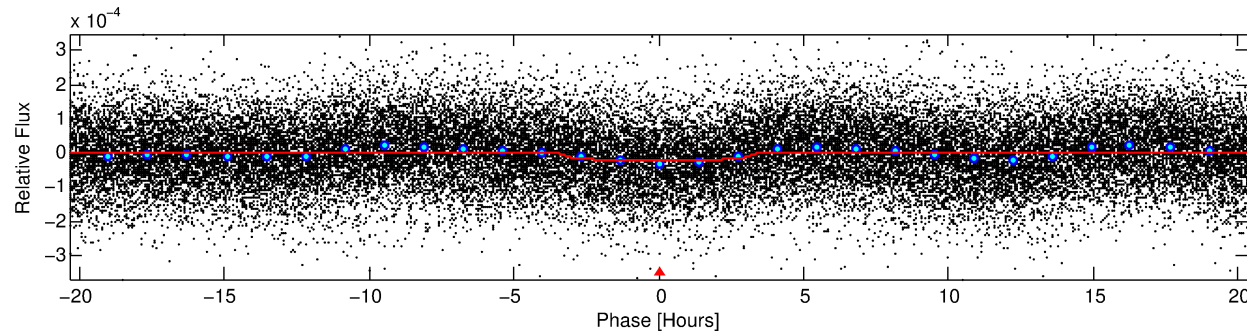
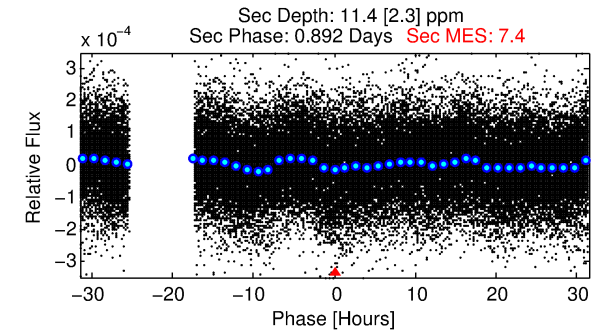
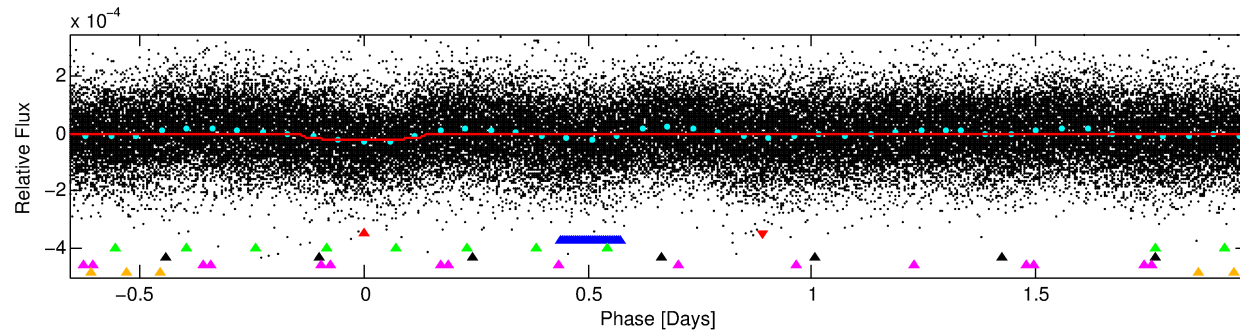
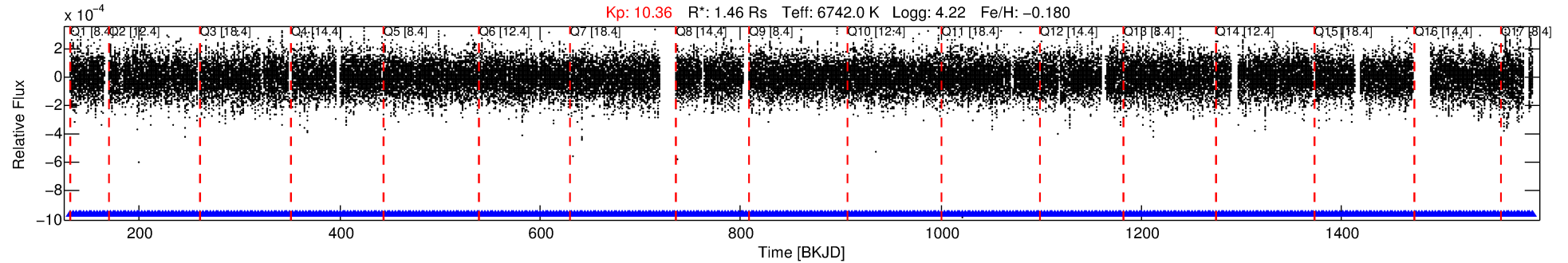
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007668911-01

No Significant Match Found

DV One-Page Summary

KIC: 7668911 Candidate: 1 of 6 Period: 2.633 d



DV Fit Results:

Period = 2.63349 [0.00002] d
Epoch = 131.6875 [0.0030] BKJD
Rp/R* = 0.0051 [0.0005]
a/R* = 1.36 [0.28]
b = 0.95 [0.04]
Seff = 2397.98 [923.20]
Teq = 1784 [172] K
Rp = 0.81 [0.26] Re
a = 0.0405 [0.0100] AU
Ag = 15.61 [7.02] [2.08σ]
Teffp = 5484 [456] K [7.59σ]

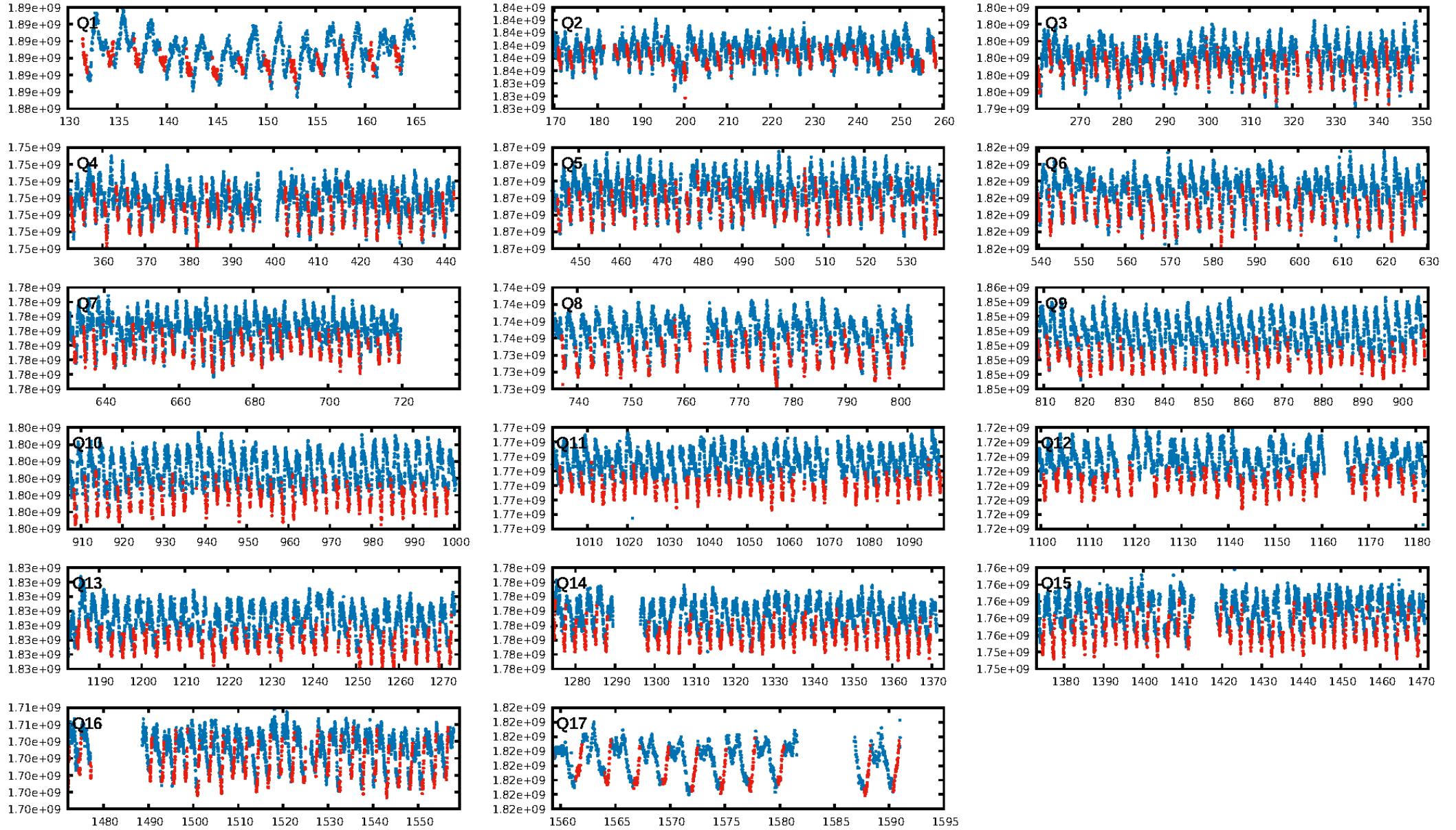
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.1% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 6.52e-14
RollingBand-fgt: 1.00 [490/490]
GhostDiagnostic-chr: 1.177
Centroid-sig: 0.0%
Centroid-so: 1.983 arcsec [3.54σ]
OotOffset-rm: 0.751 arcsec [1.42σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-rm: 1.431 arcsec [2.46σ]
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DiffImageQuality-fgm: 0.06 [1/16]
DiffImageOverlap-fno: 0.00 [0/17]

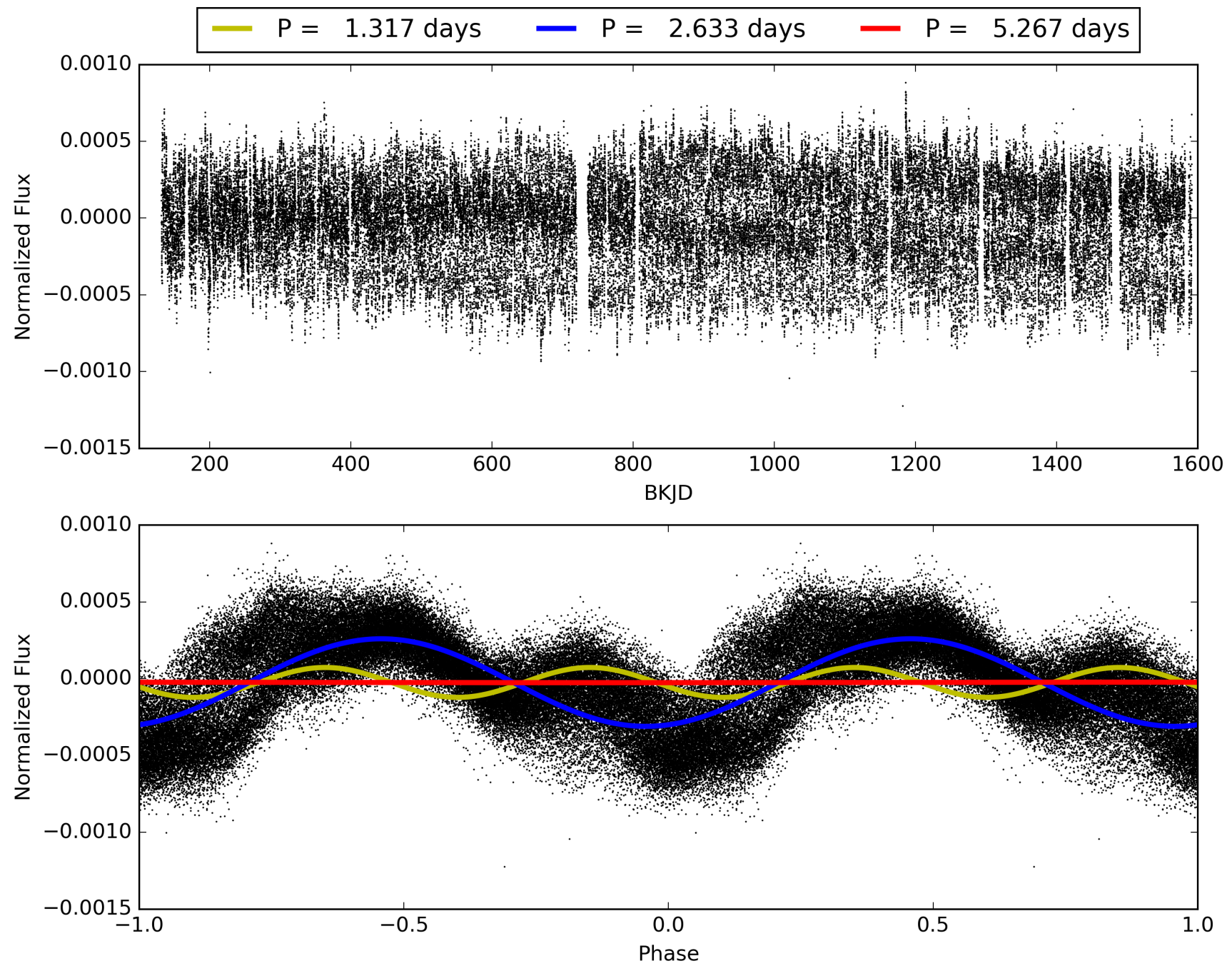
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007668911-01, PDC Light Curves

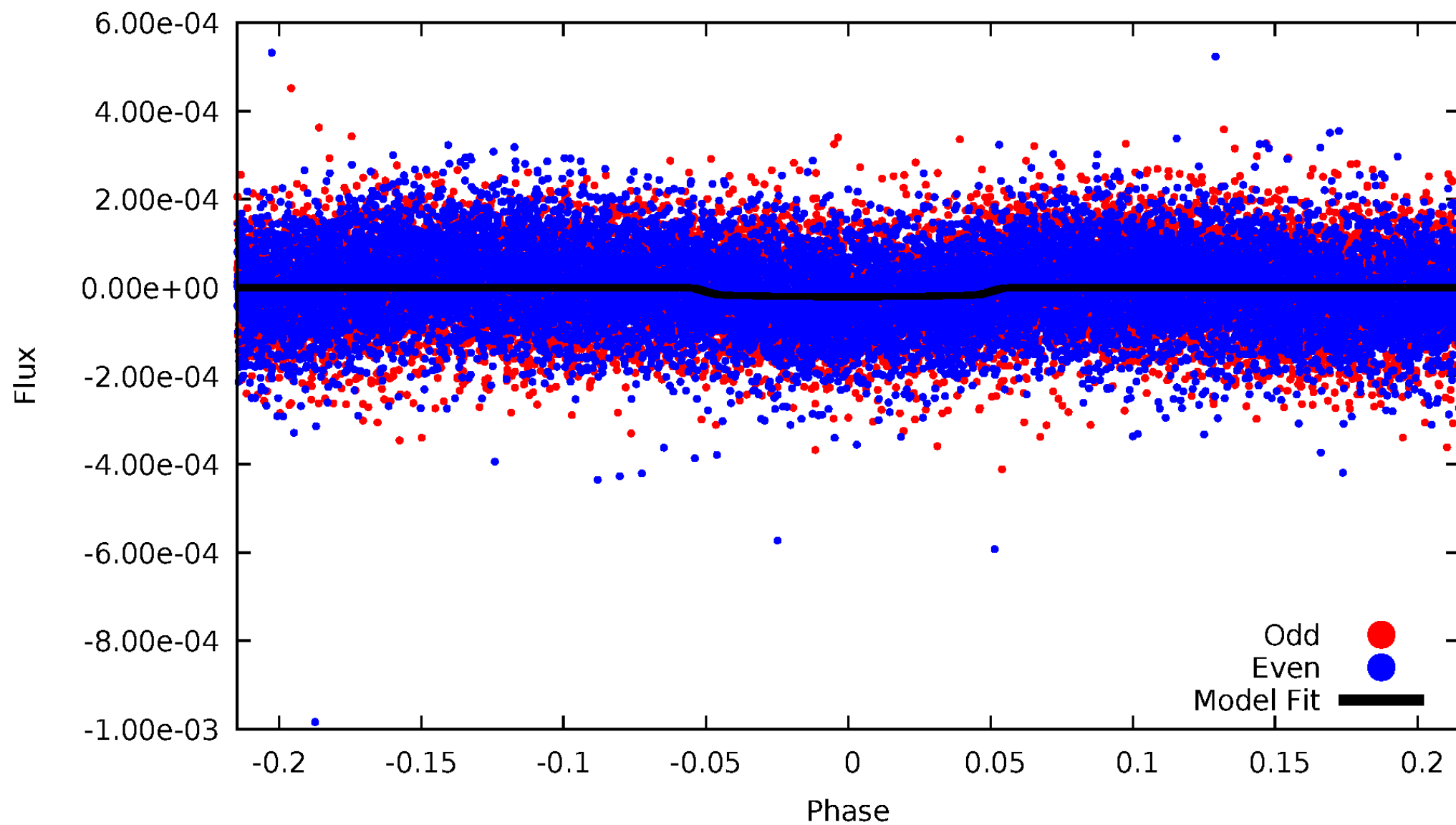


TCE 007668911-01



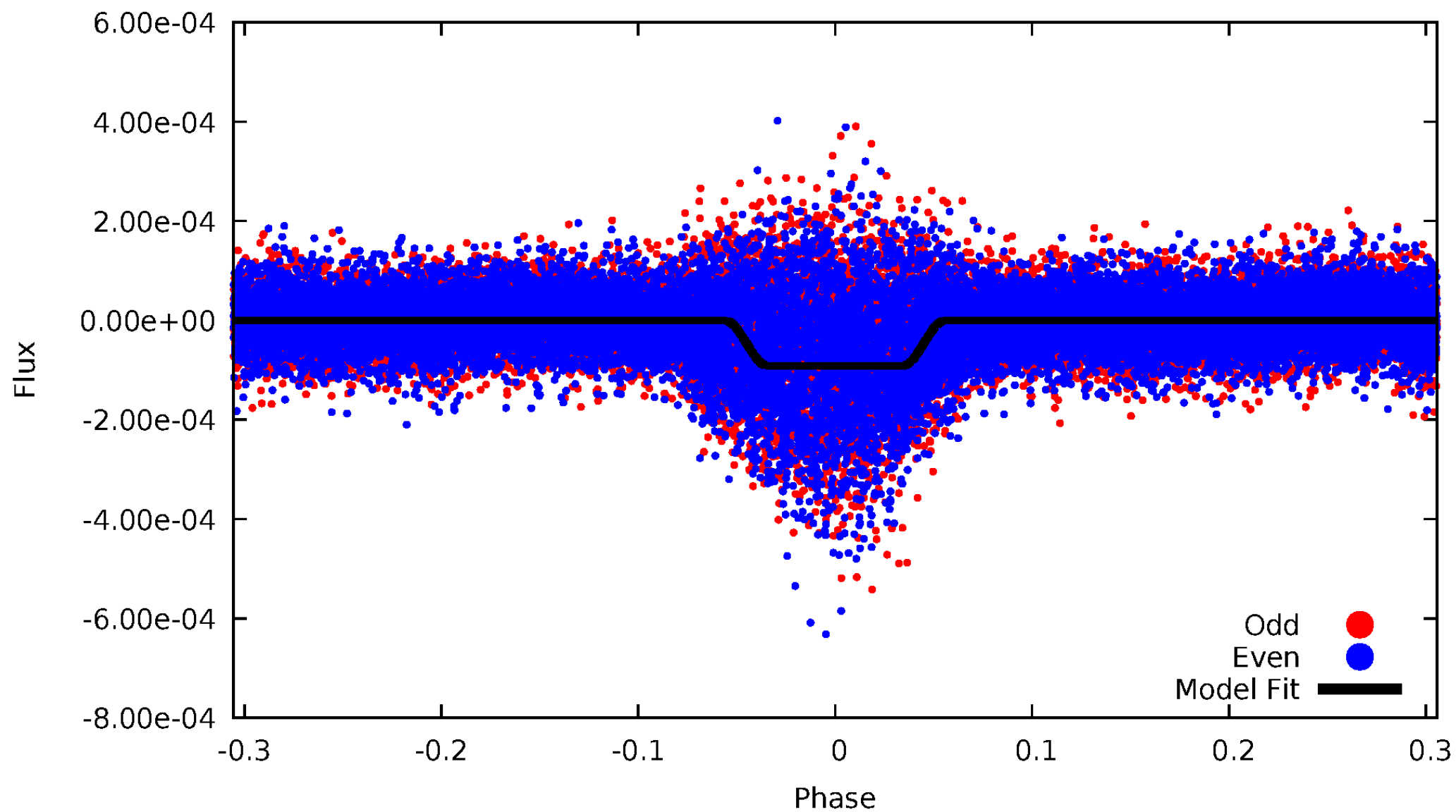
DV Odd/Even

TCE 007668911-01

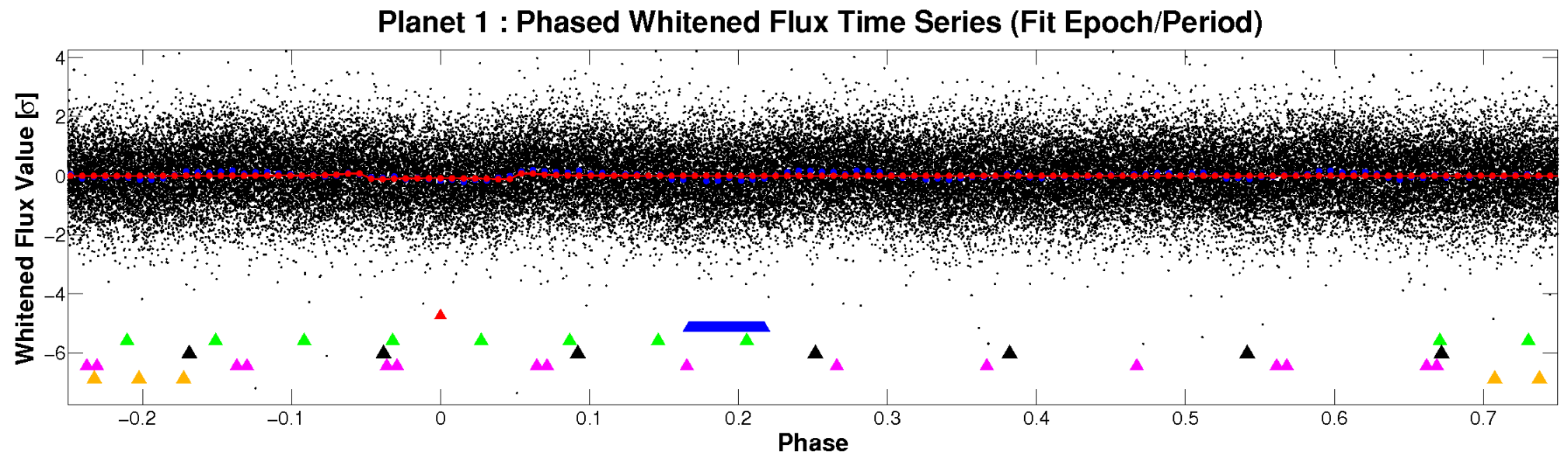
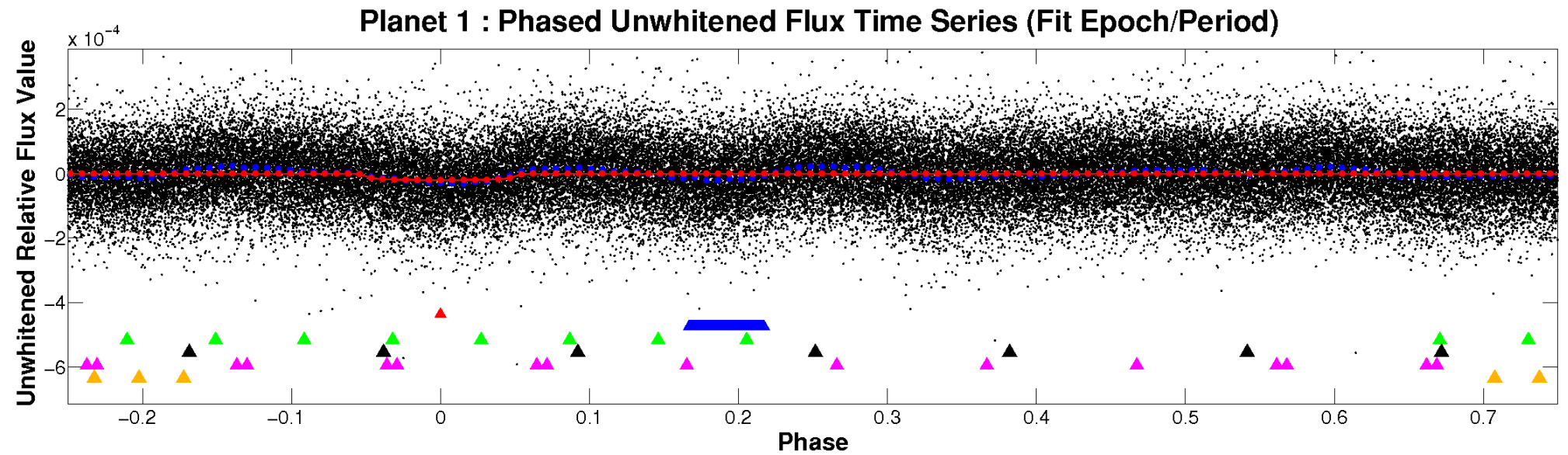


ALT Odd/Even

TCE 007668911-01

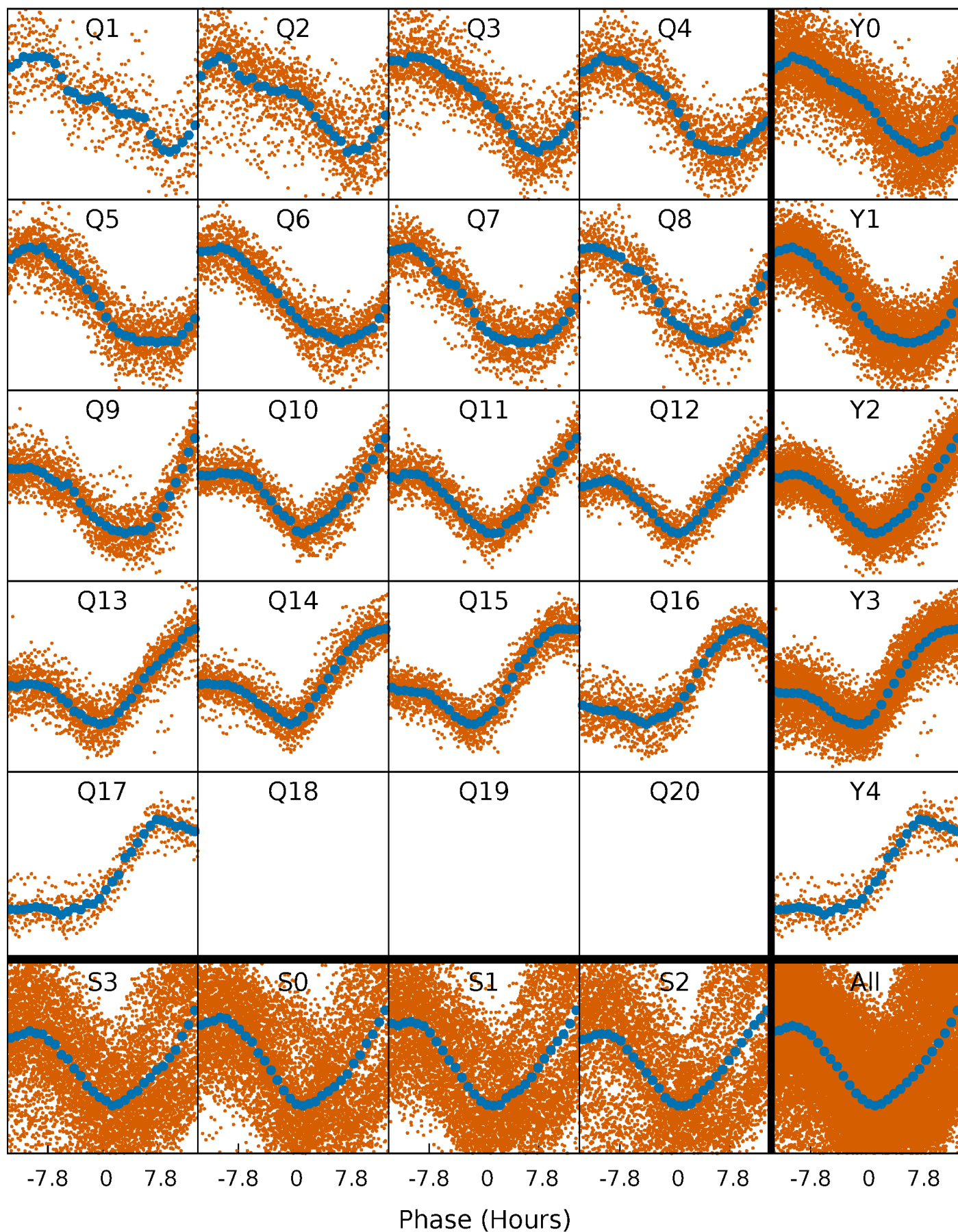


Non-Whitened Vs. Whitened Light Curve



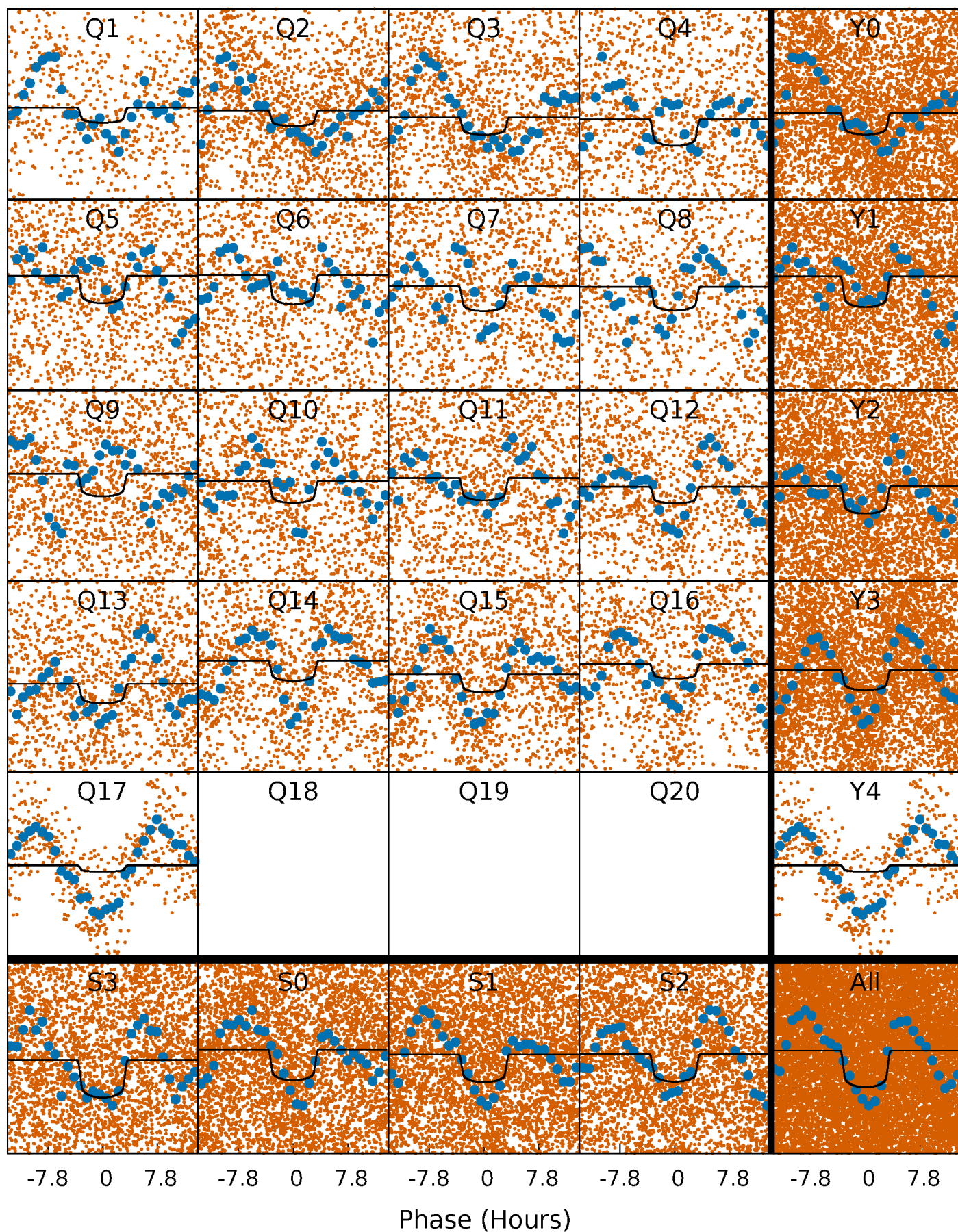
PDC Quarter-Phased Transit Curves

TCE 007668911-01 P= 2.633491 Days $T_0=131.687535$ (BKJD)



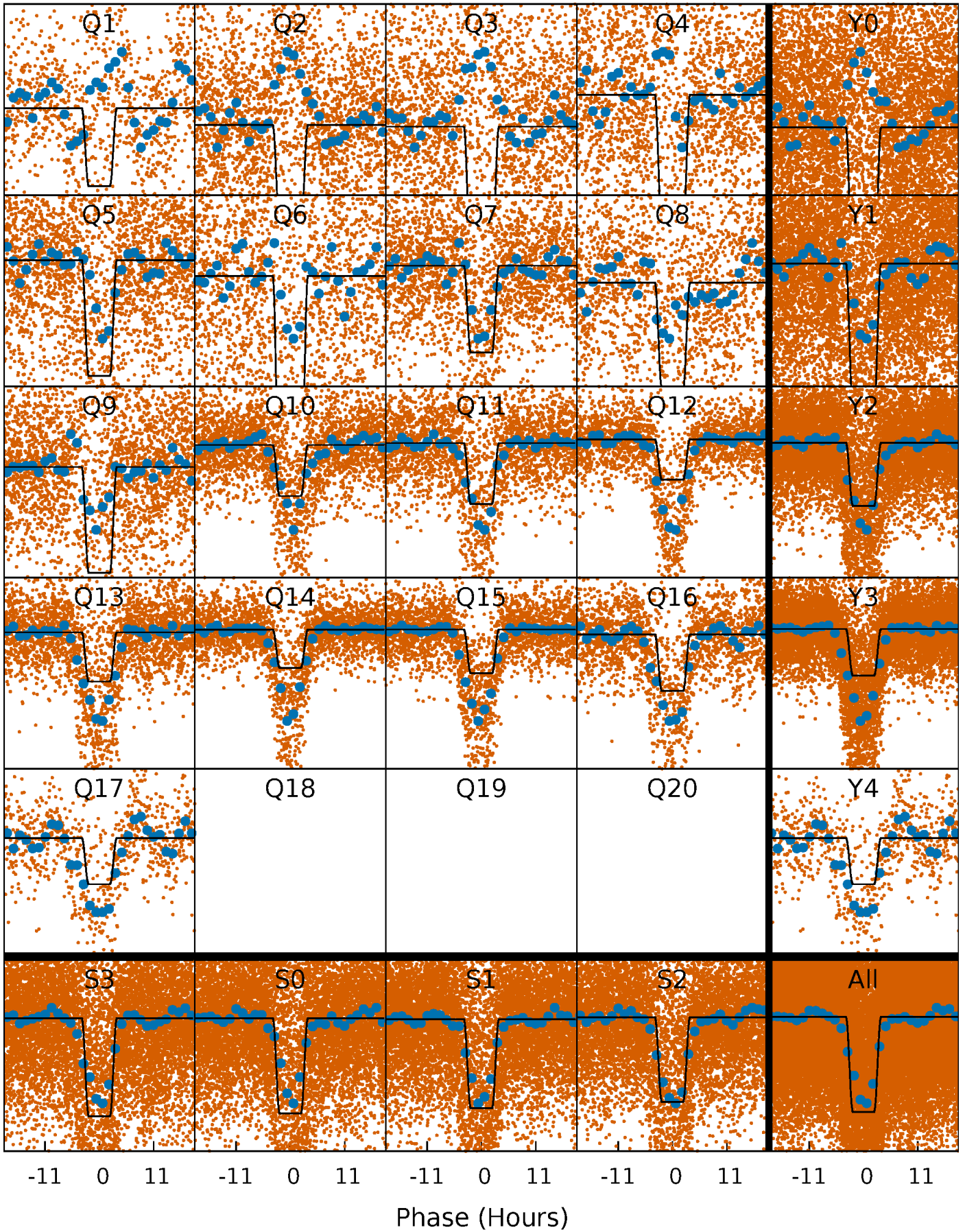
DV Quarter-Phased Transit Curves

TCE 007668911-01 P= 2.633491 Days $T_0=131.687535$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

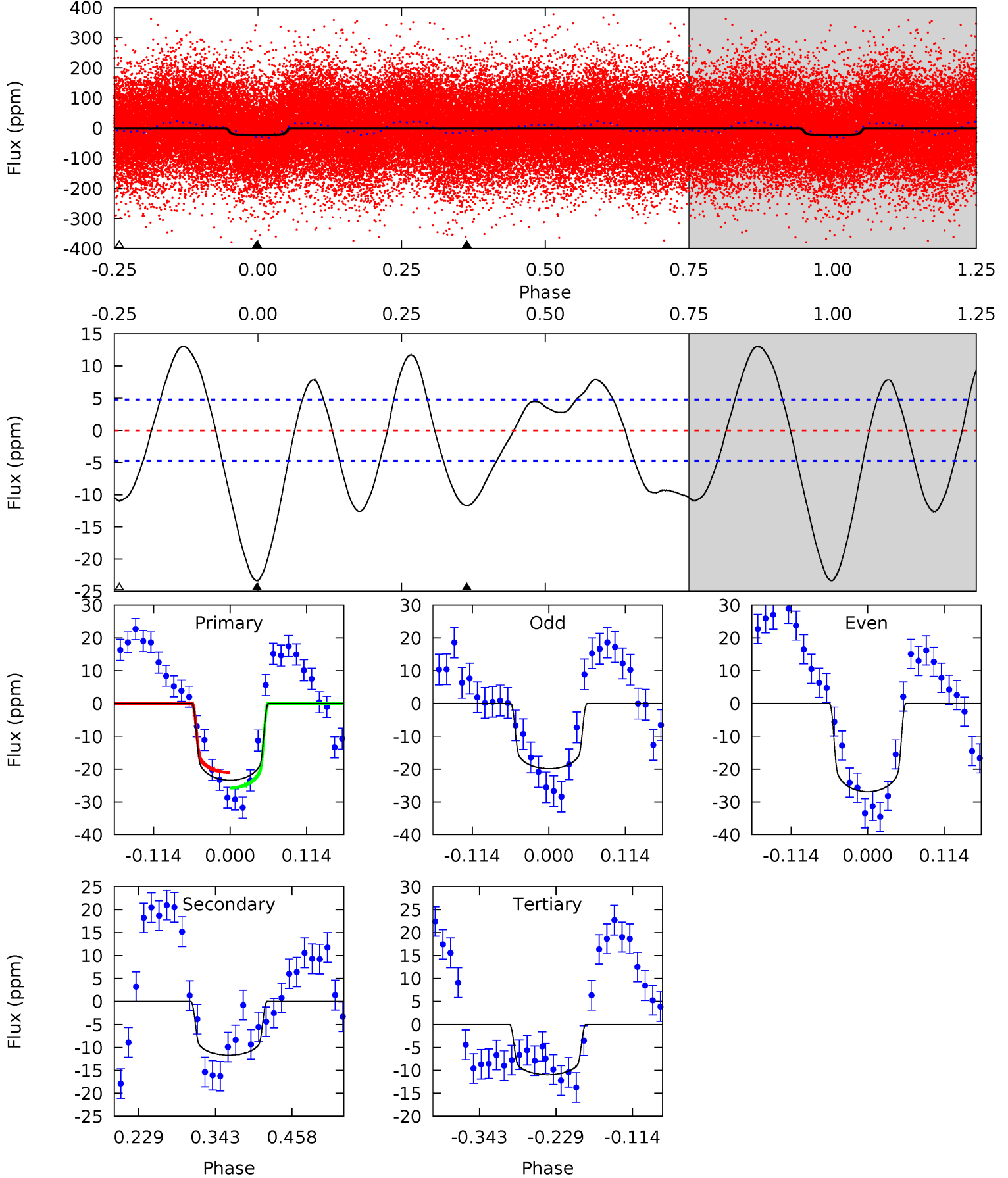
TCE 007668911-01 P= 2.633409 Days $T_0=131.733481$ (BKJD)



DV Model-Shift Uniqueness Test

007668911-01, P = 2.633491 Days, E = 129.054044 Days

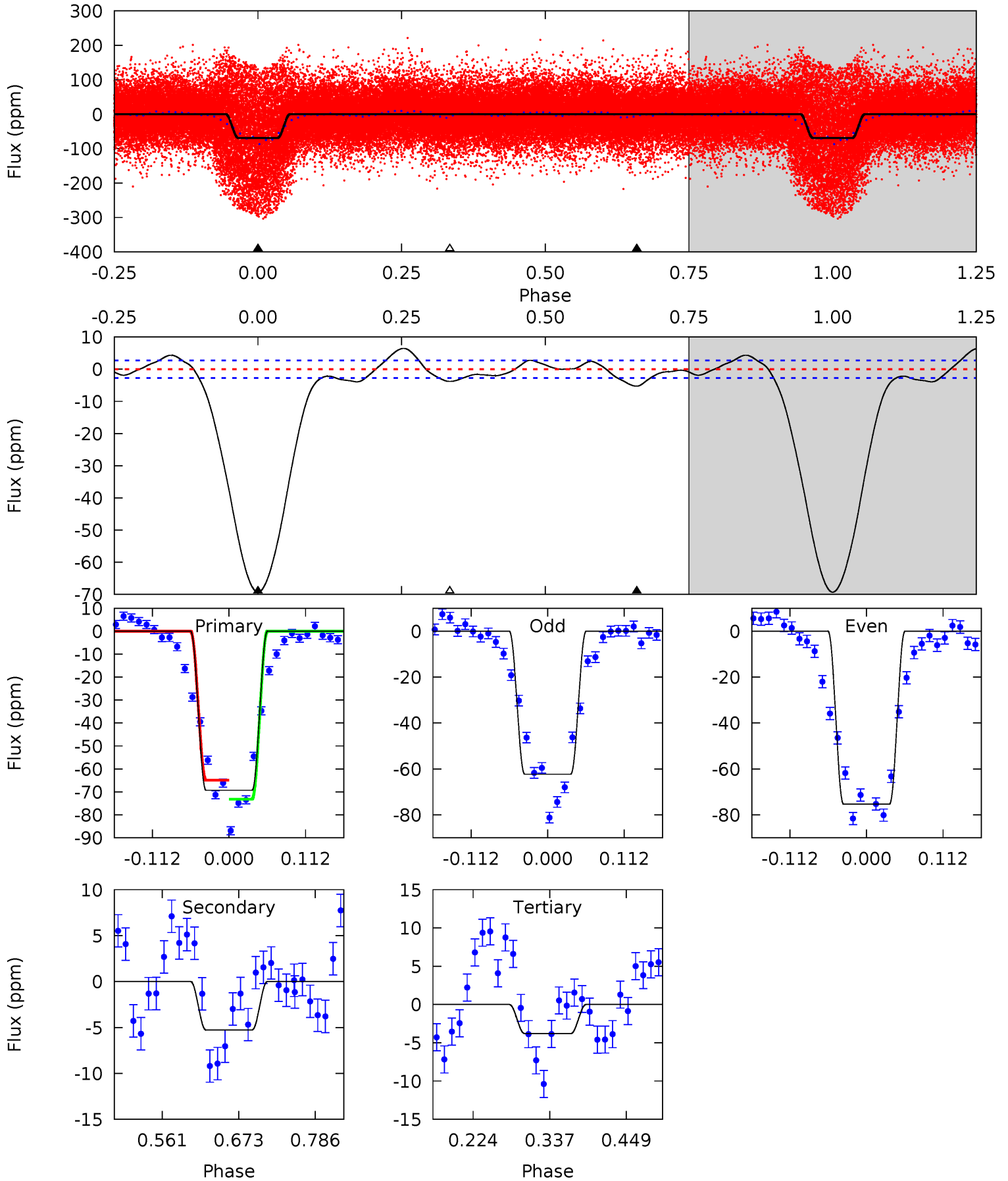
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.3	11.1	10.4	0	4.54	1.58	7.16	11.8	22.3	0.70	11.1	3.33	1.09	0.36	2.25



Alt Model-Shift Uniqueness Test

007668911-01, P = 2.633409 Days, E = 129.100072 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
115.6	8.79	6.34	0	4.54	1.59	4.60	109.3	115.6	2.45	8.79	10.8	1.14	0.09	6.86



Stellar Parameters For KIC 007668911

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6742^{+189}_{-284}	$4.217^{+0.132}_{-0.182}$	$-0.180^{+0.250}_{-0.300}$	$1.458^{+0.447}_{-0.298}$	$1.288^{+0.182}_{-0.202}$	$0.585^{+0.435}_{-0.308}$
	+3%/-4%	+3%/-4%	+139%/-167%	+31%/-20%	+14%/-16%	+74%/-53%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 007668911-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-12 ± 1	$0.82^{+0.16}_{-0.12}$	2510^{+183}_{-167}	5485^{+343}_{-318}	16^{+6}_{-5}
Alt.	-5 ± 1	$1.55^{+0.25}_{-0.20}$	2506^{+202}_{-169}	3584^{+133}_{-136}	$1.952^{+0.625}_{-0.497}$

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 $A_{obs} \gg 1.0$

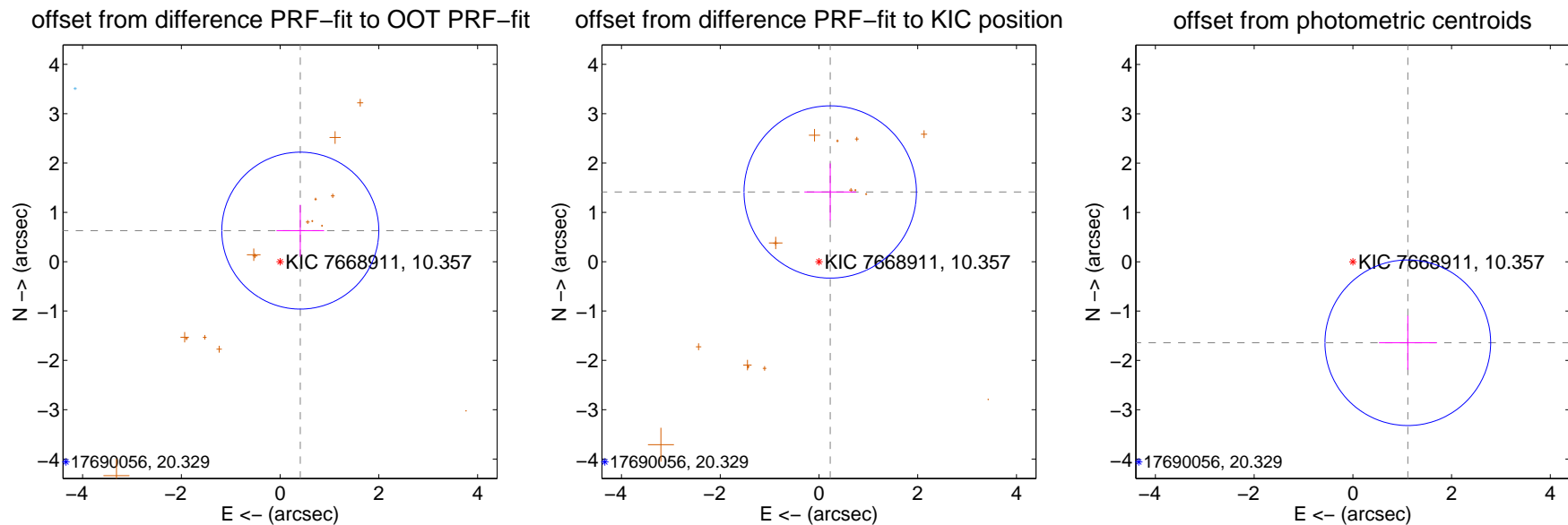
DV Centroid Data

Supplemental centroid analysis for 007668911-01. **Kepler magnitude: 10.36.** Transit SNR 8.63

There are 1 quarters with good PRF difference image offsets

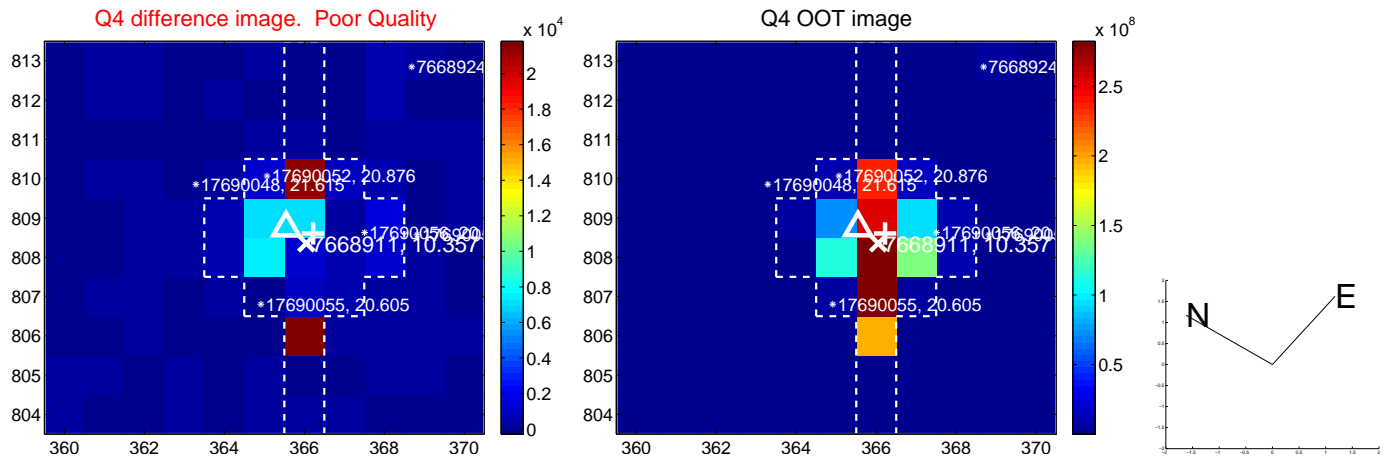
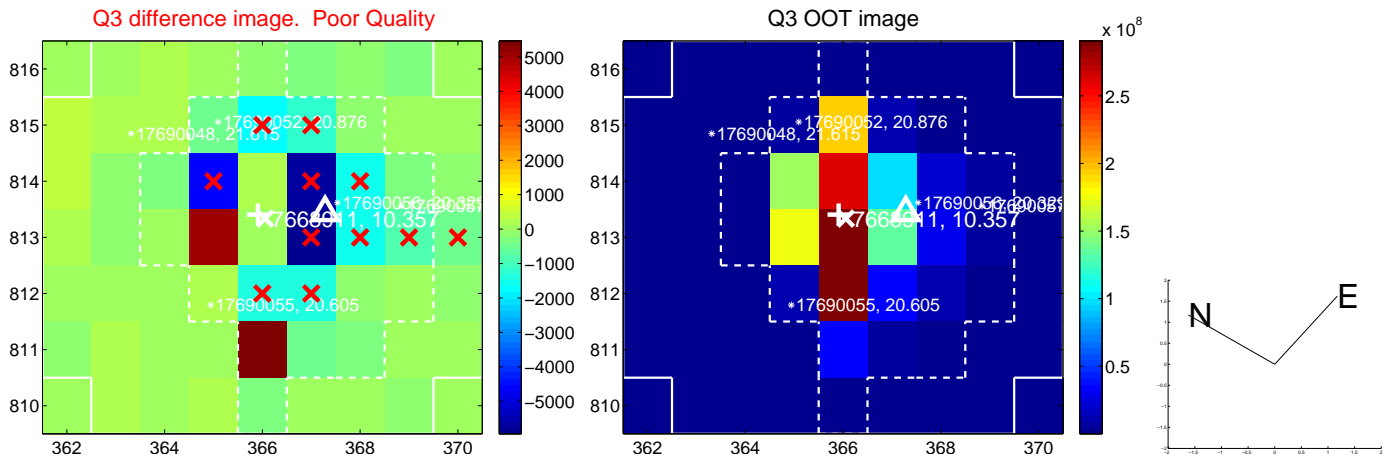
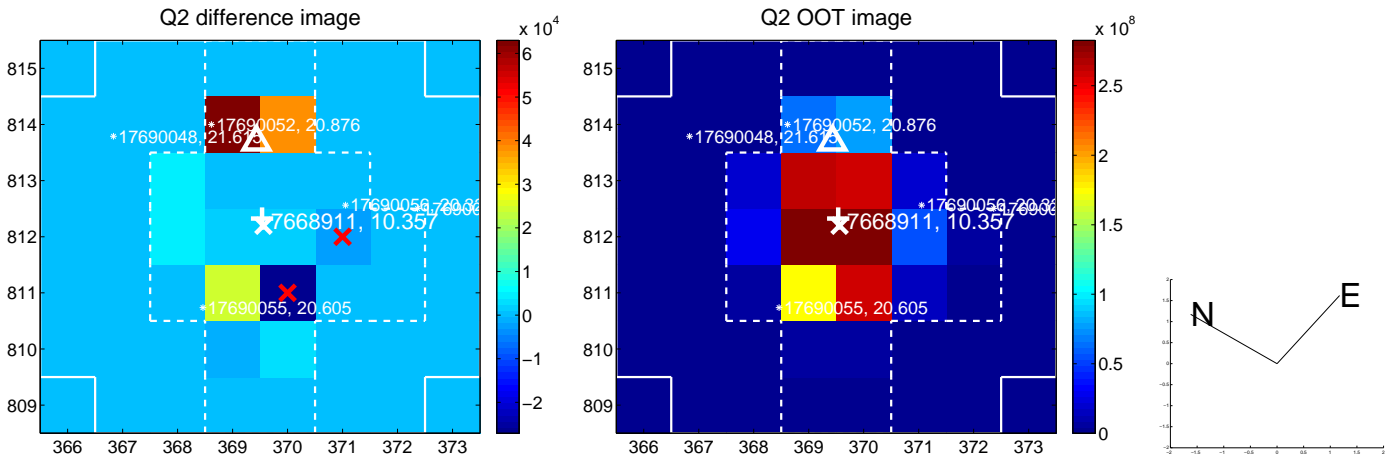
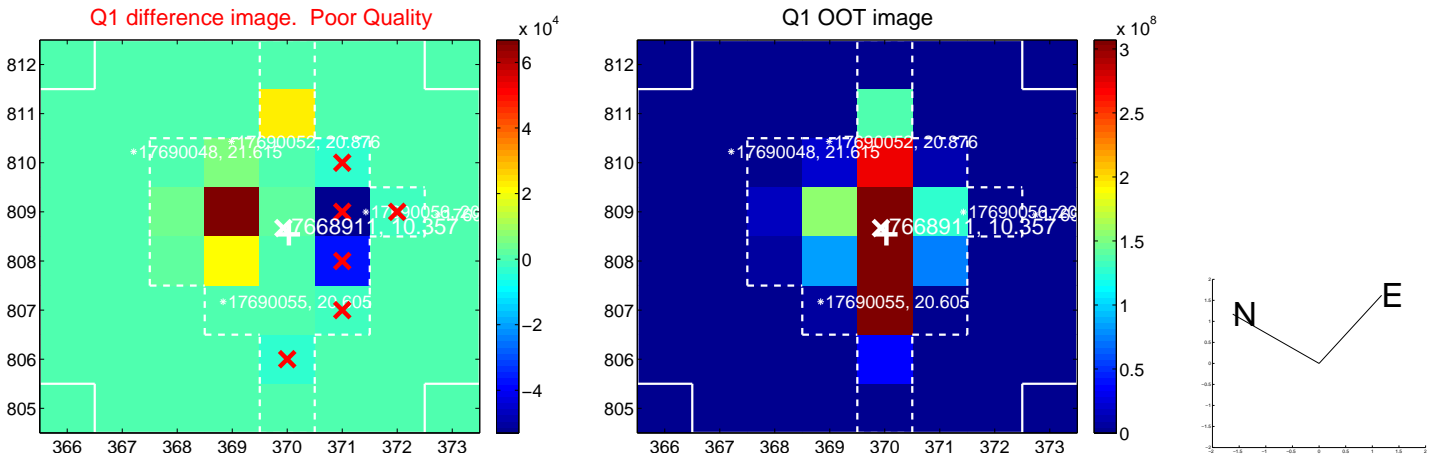
The direct PRF centroid is offset from the target star catalog position by about 0.74 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.751 ± 0.530	1.42	-0.409 ± 0.483	0.630 ± 0.523
PRF-fit source offset from KIC position	1.431 ± 0.582	2.46	-0.228 ± 0.524	1.413 ± 0.579
photometric centroid source offset	1.98 ± 0.56	3.54	-1.11 ± 0.58	-1.64 ± 0.55

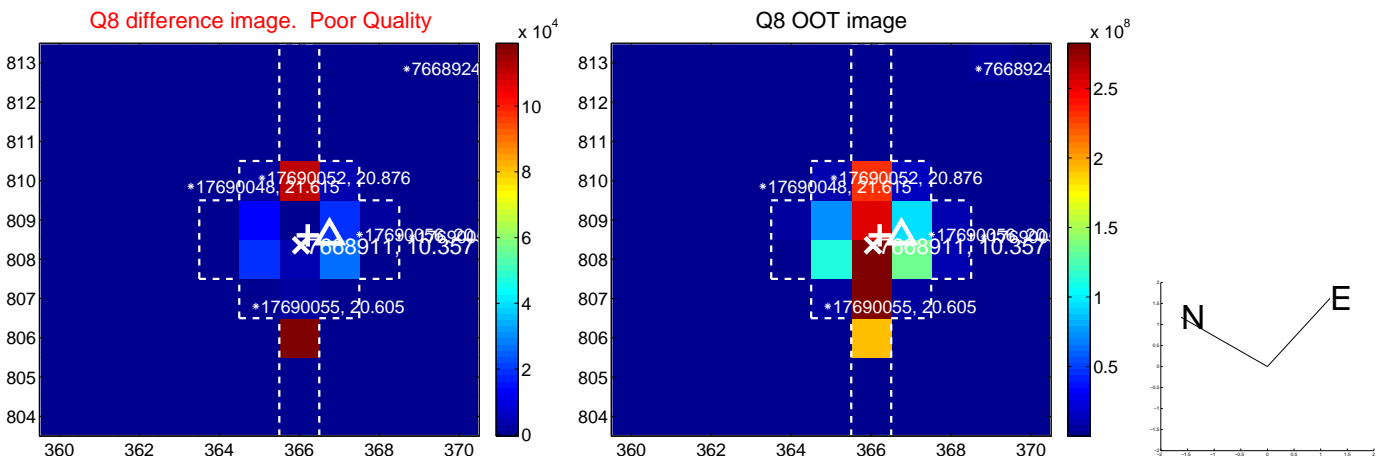
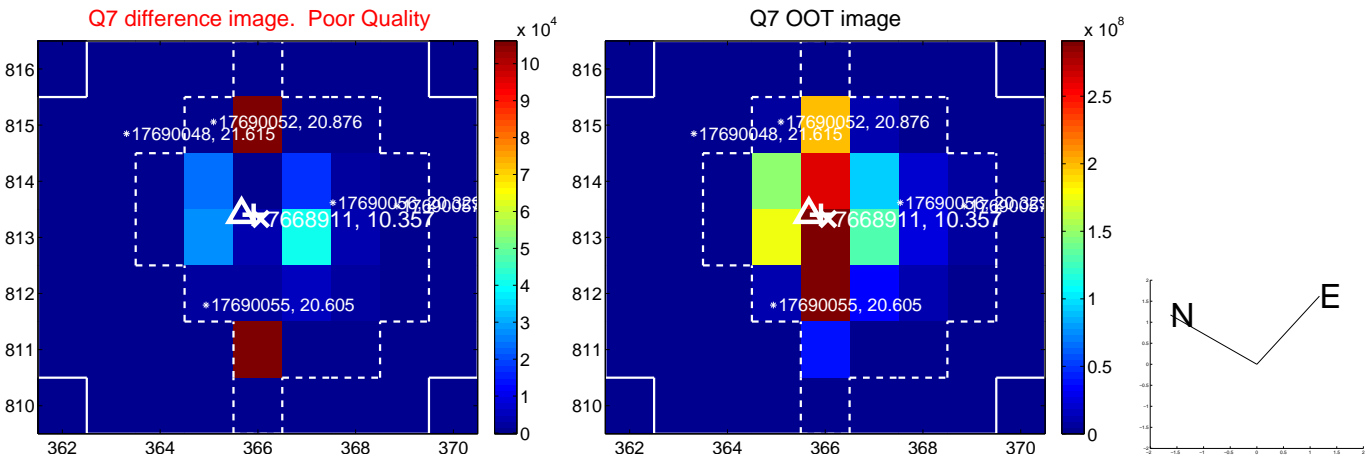
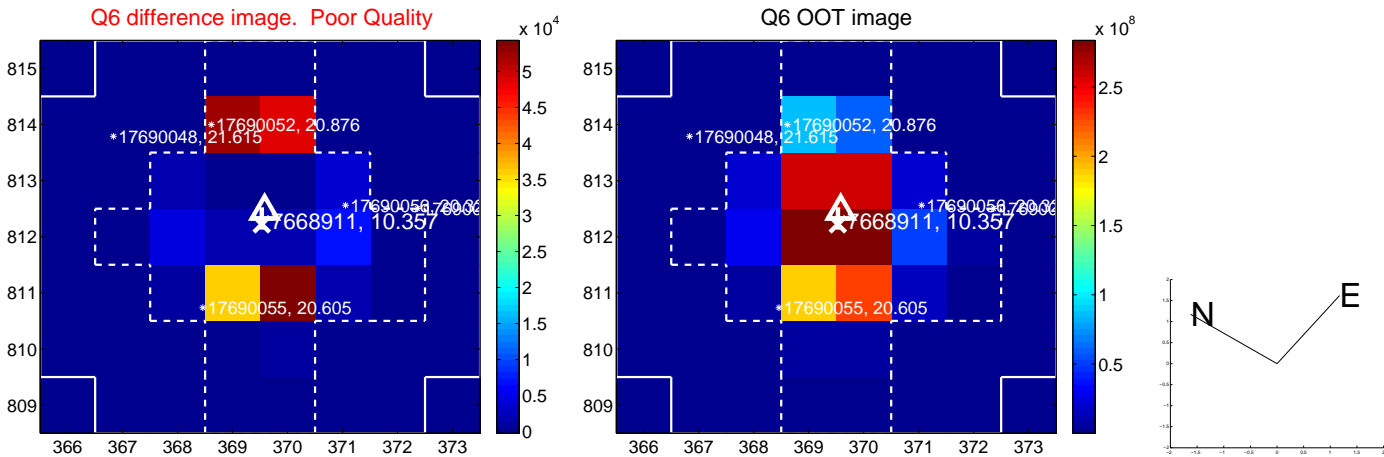
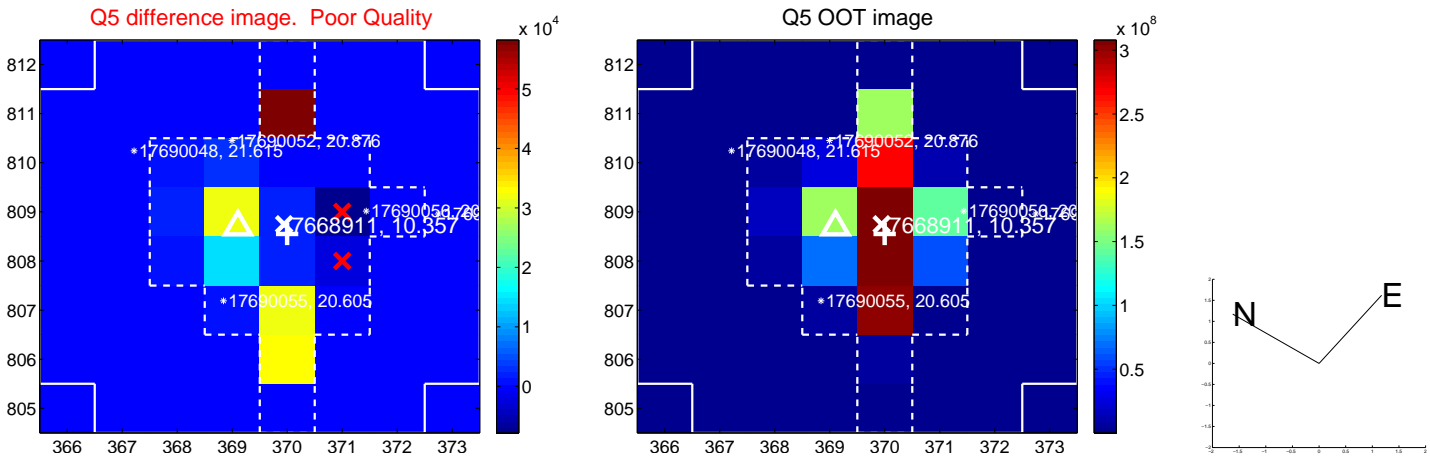


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

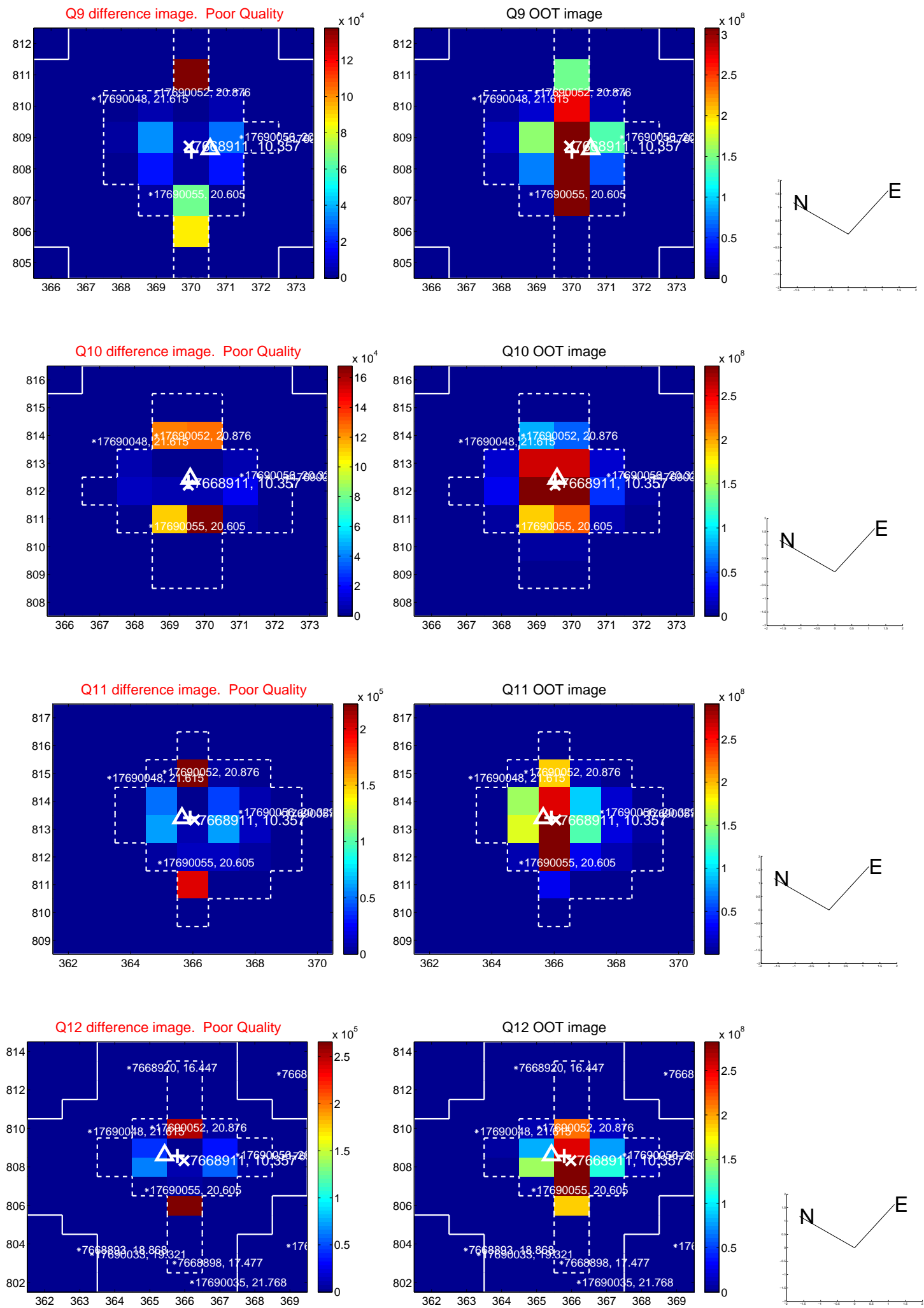
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



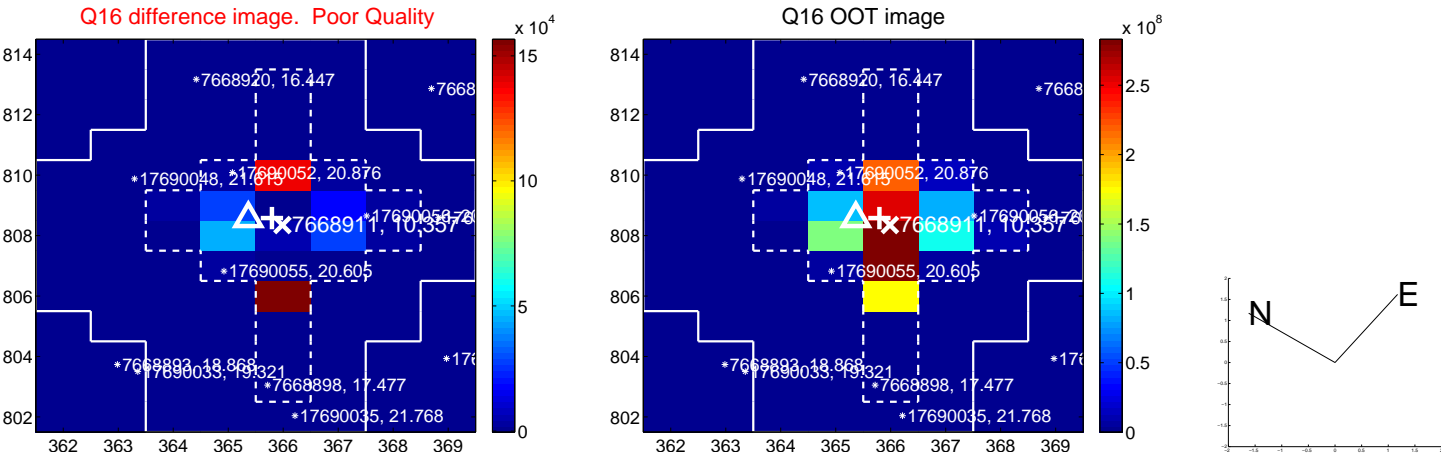
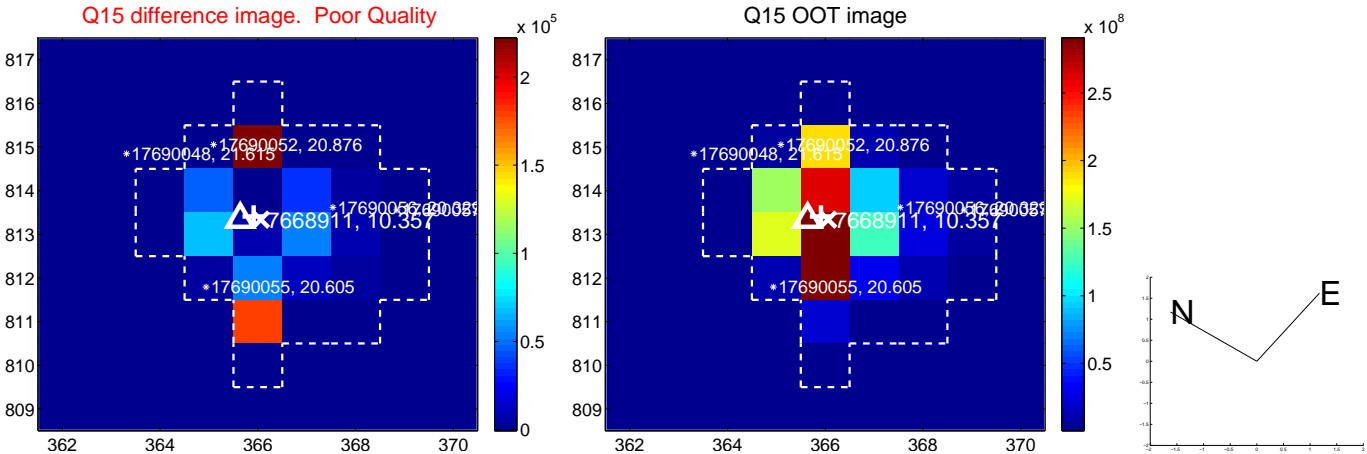
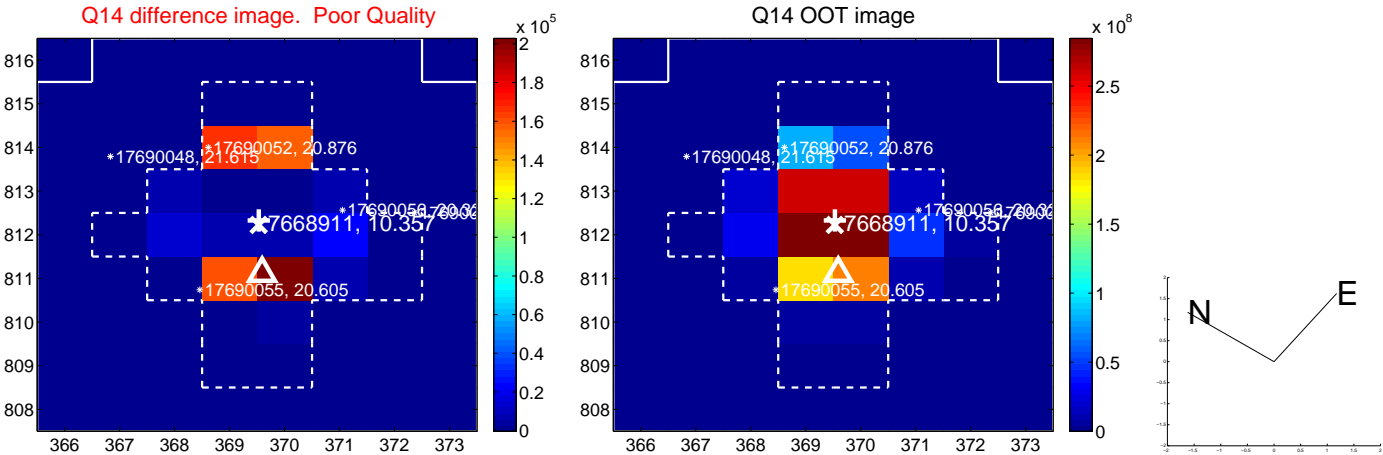
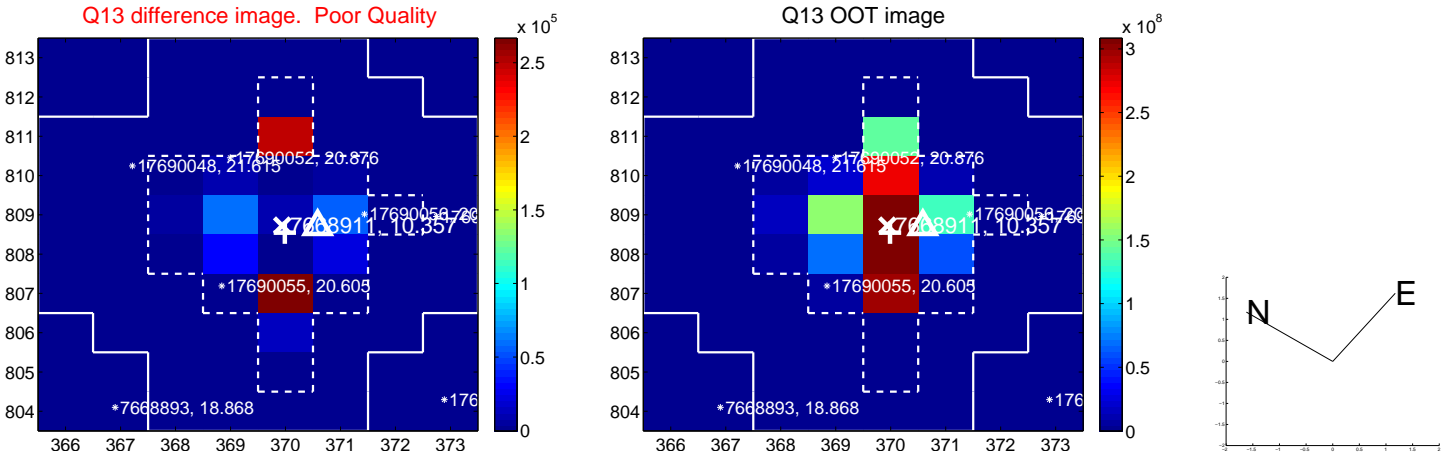
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



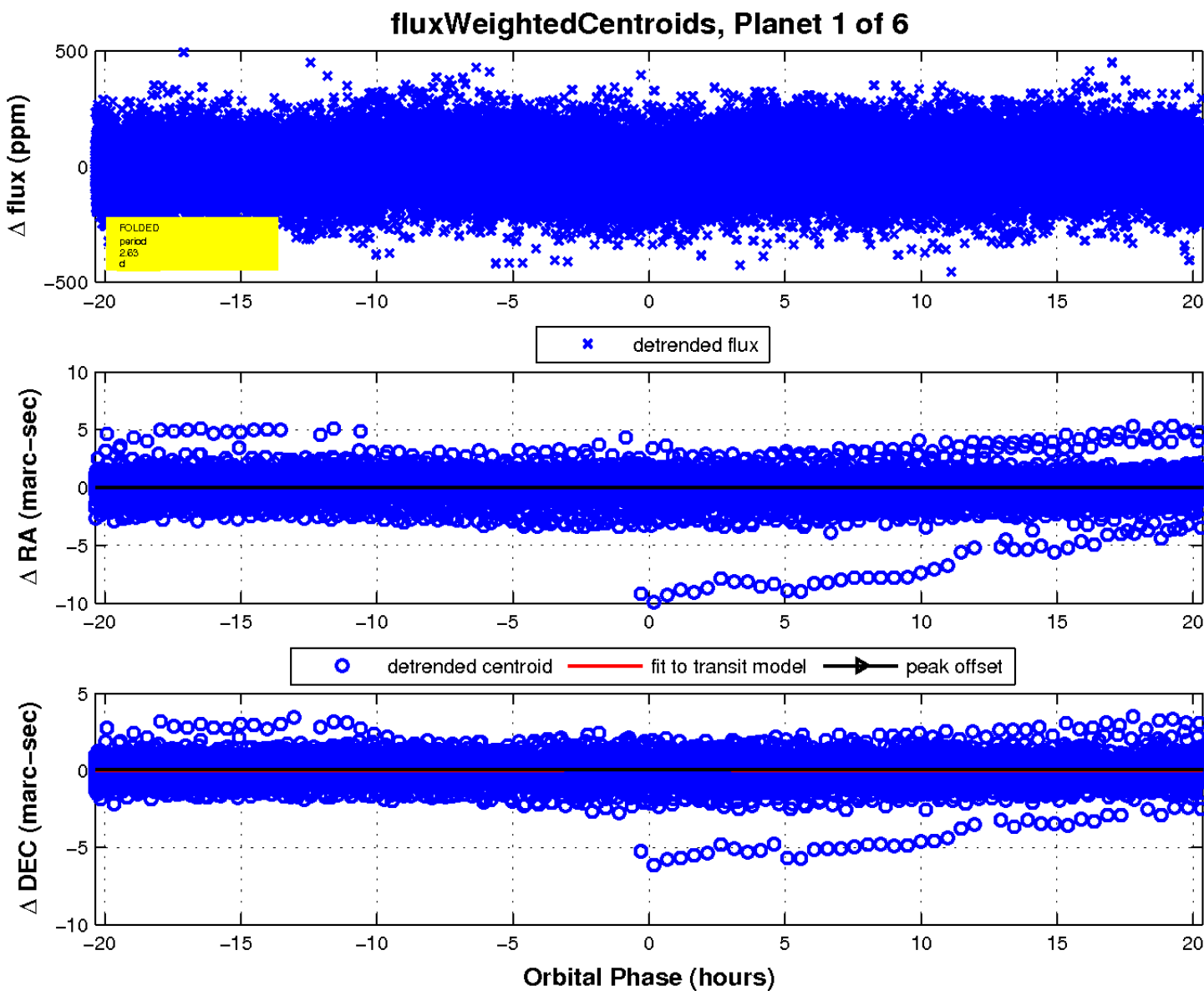
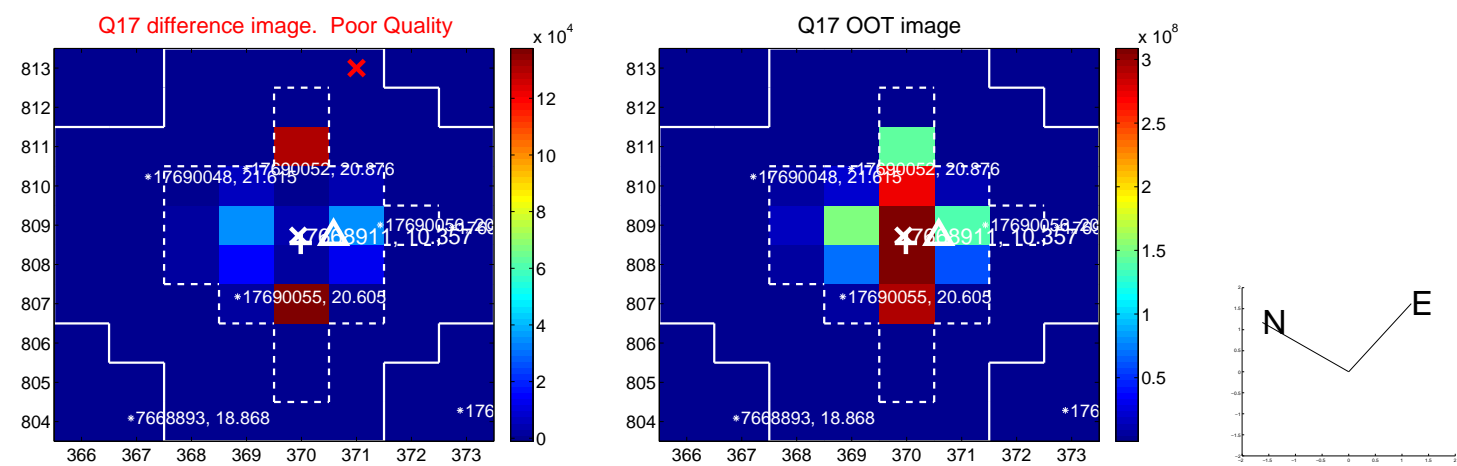
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



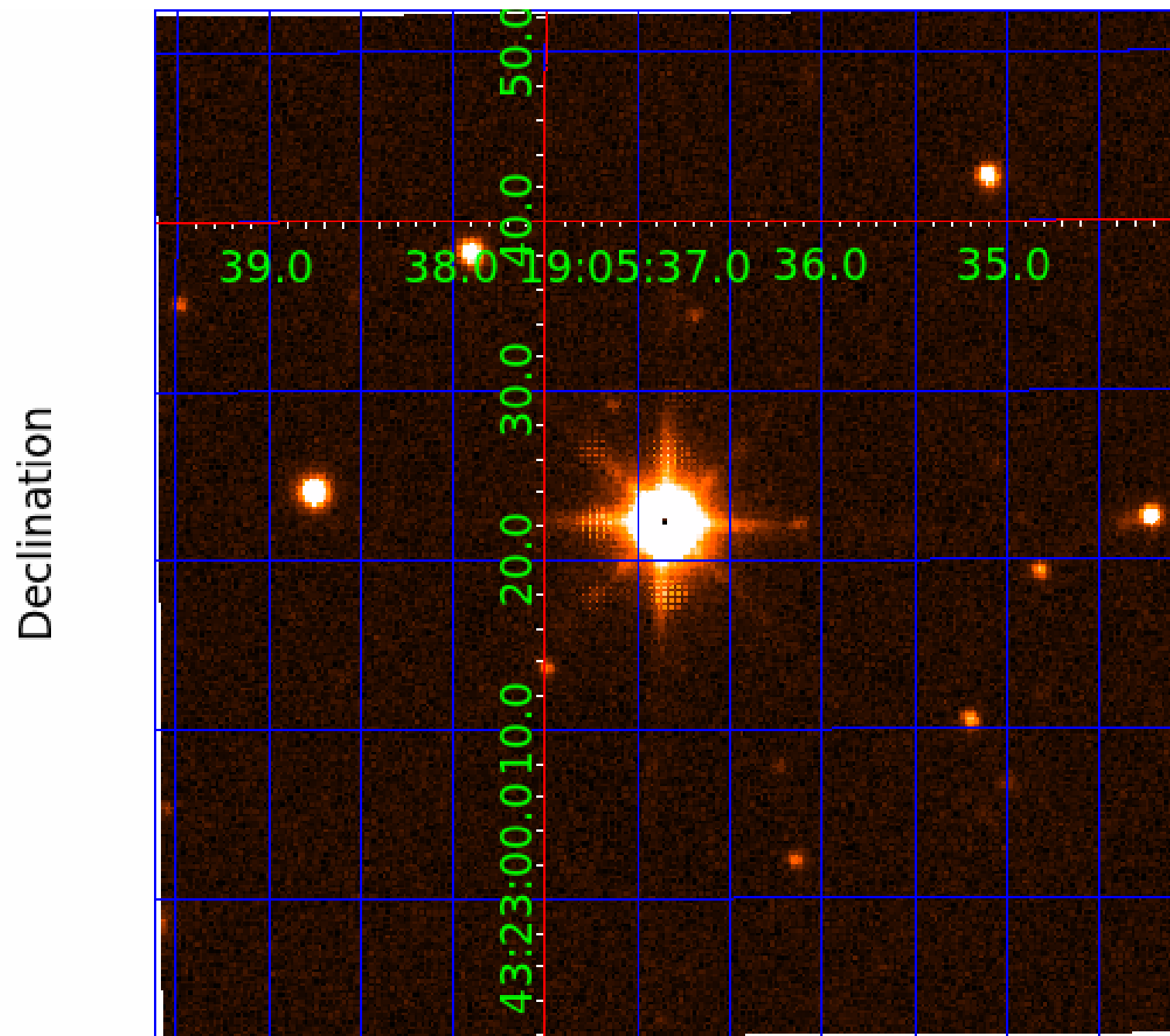
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 007668911

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})
007668911-01	OBS	No	2.633491	131.687535	20.3	6.785	10.1	8.6	1.46	6742	0.81	2397.98
007668911-02	OBS	No	2.633732	132.126409	26.4	4.439	9.4	11.2	1.46	6742	0.88	2397.68
007668911-04	OBS	No	211.442658	195.134093	154.6	9.879	8.2	7.0	1.46	6742	2.00	6.92
007668911-05	OBS	No	89.803845	154.233544	116.3	3.838	7.8	8.1	1.46	6742	1.88	21.68
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007668911-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007668911-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
007668911-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—CENT_SATURATED
007668911-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
007668911-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

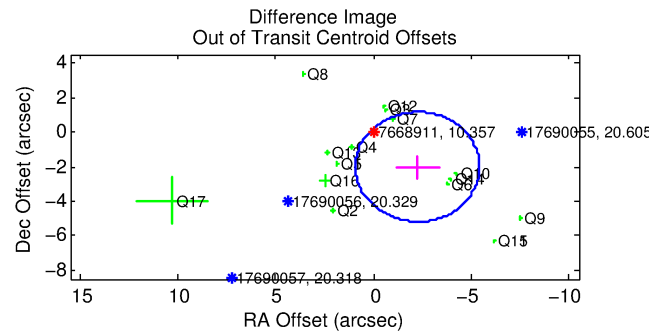
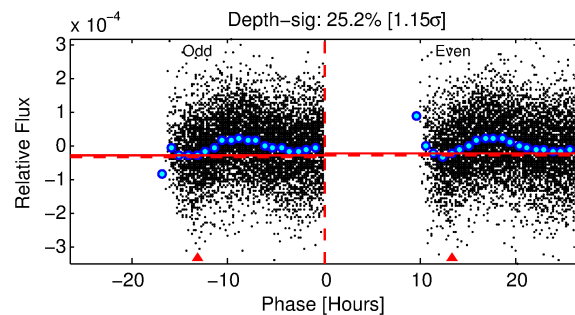
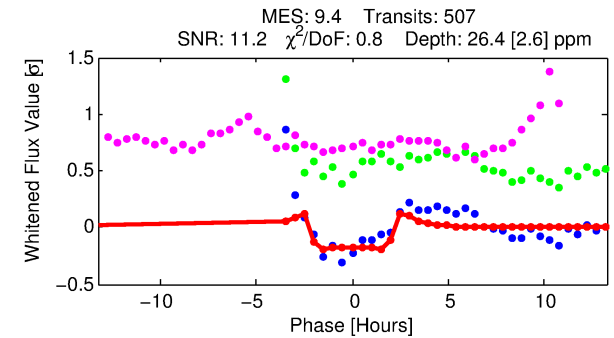
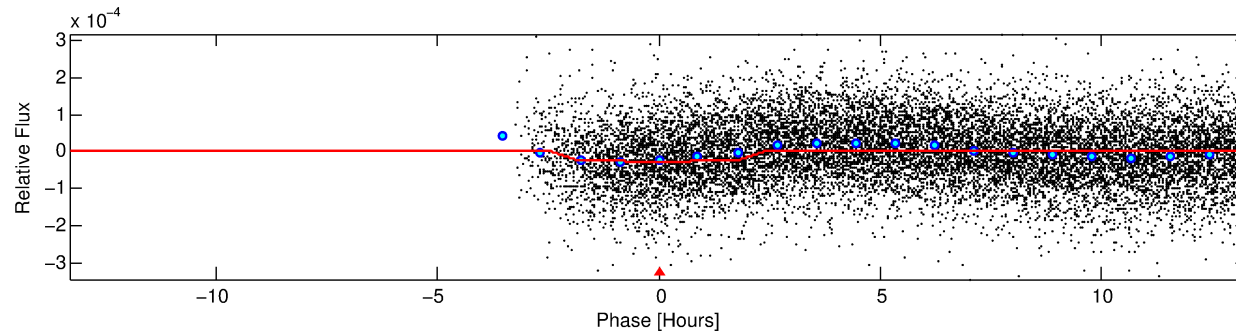
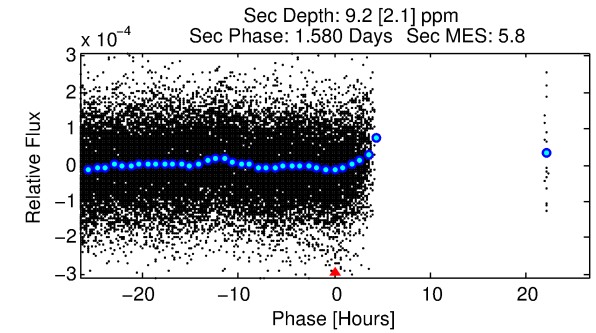
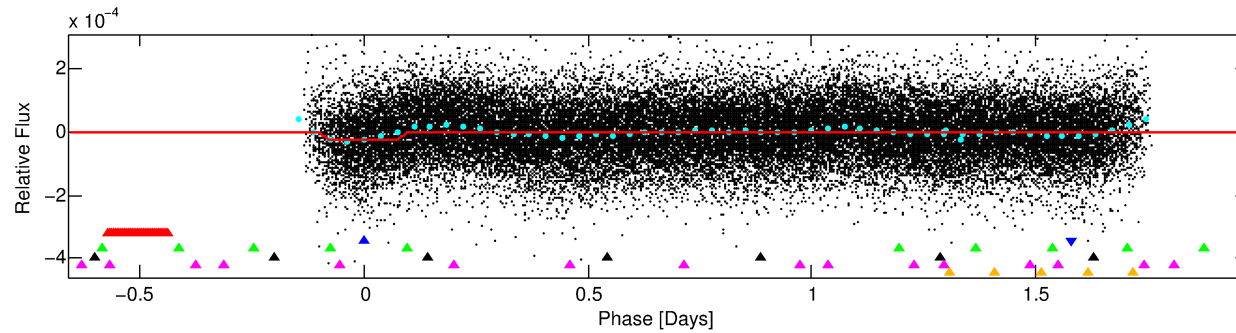
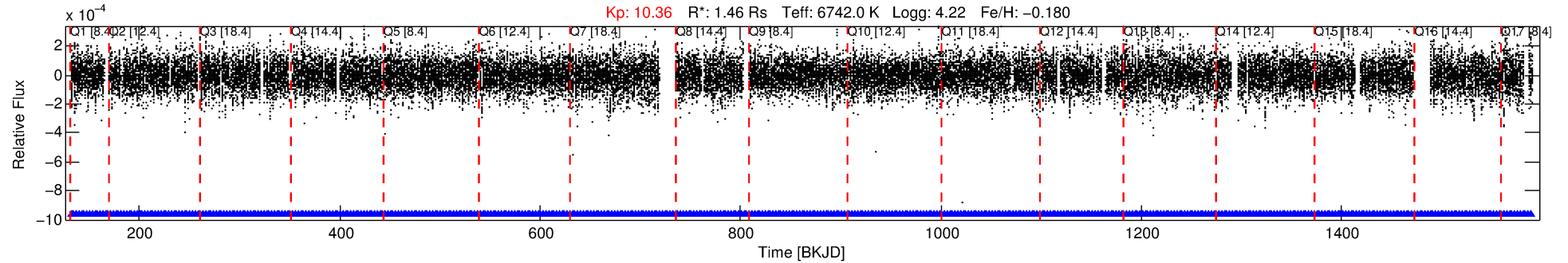
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007668911-02

No Significant Match Found

DV One-Page Summary

KIC: 7668911 Candidate: 2 of 6 Period: 2.634 d



DV Fit Results:

Period = 2.63373 [0.00001] d
Epoch = 132.1264 [0.0029] BKJD
Rp/R* = 0.0055 [0.0009]
a/R* = 2.18 [1.64]
b = 0.91 [0.19]
Seff = 2397.69 [923.09]
Teq = 1784 [172] K
Rp = 0.88 [0.31] Re
a = 0.0405 [0.0100] AU
Ag = 10.79 [5.72] [1.71σ]
Teffp = 5000 [544] K [5.63σ]

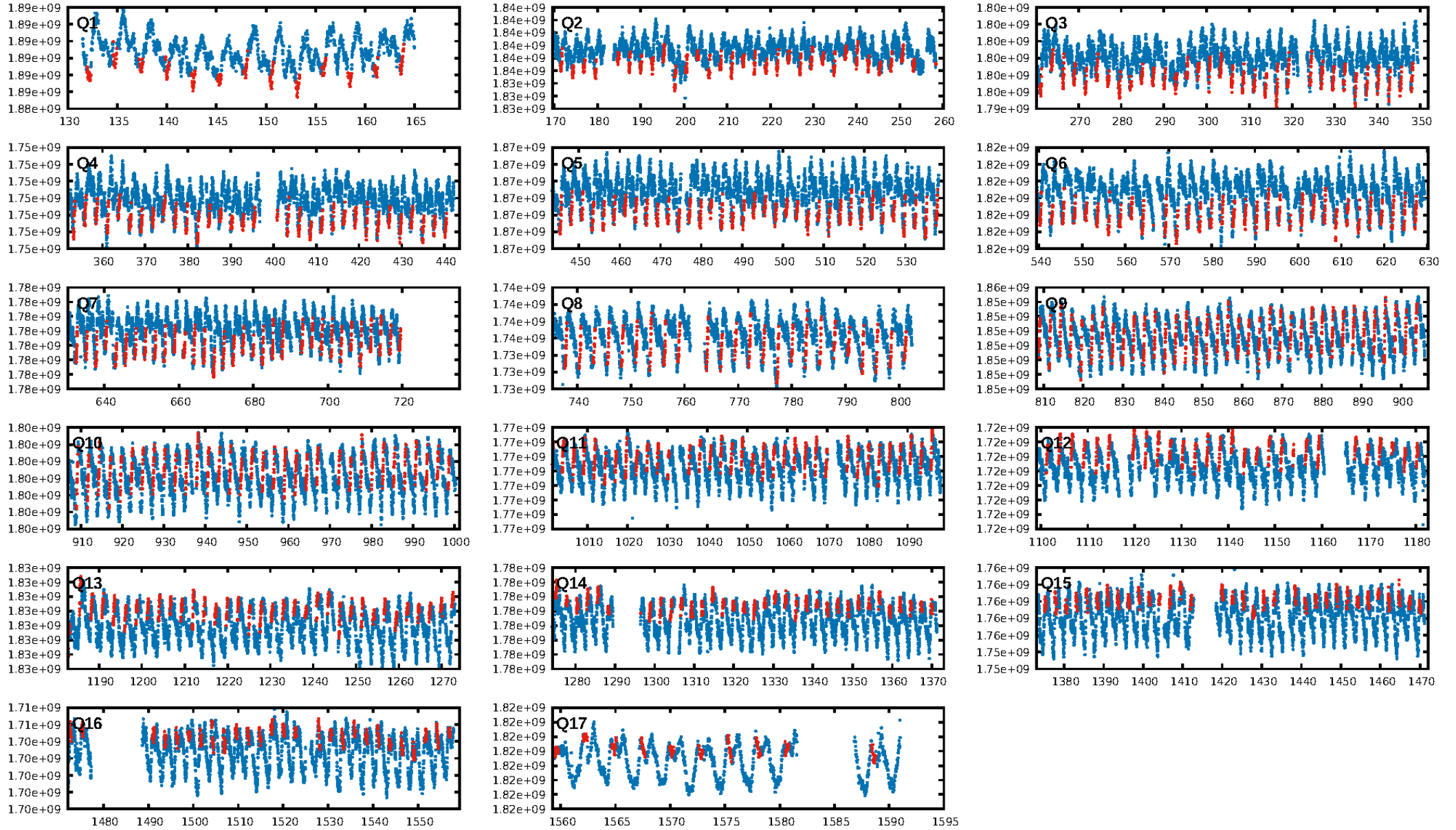
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00σ]
LongPeriod-sig: 100.0% [356.52σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: 3.40e-12
RollingBand-fgt: 1.00 [484/484]
GhostDiagnostic-chr: 1.397
Centroid-sig: 1.1%
Centroid-so: 1.122 arcsec [2.40σ]
OotOffset-rm: 3.015 arcsec [2.85σ]
KicOffset-rm: 2.890 arcsec [2.81σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.06 [1/17]
DiffImageOverlap-fno: 0.24 [4/17]

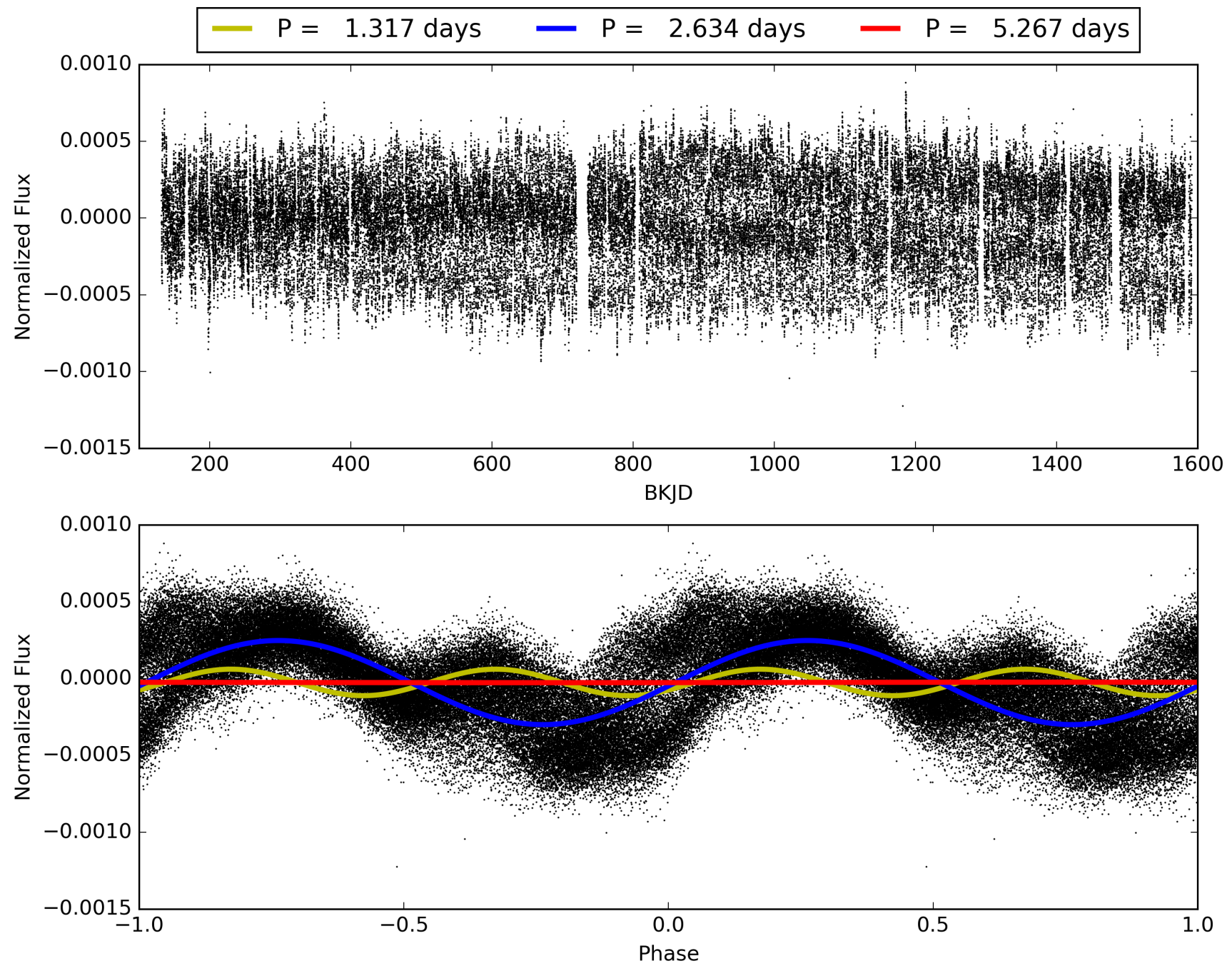
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007668911-02, PDC Light Curves

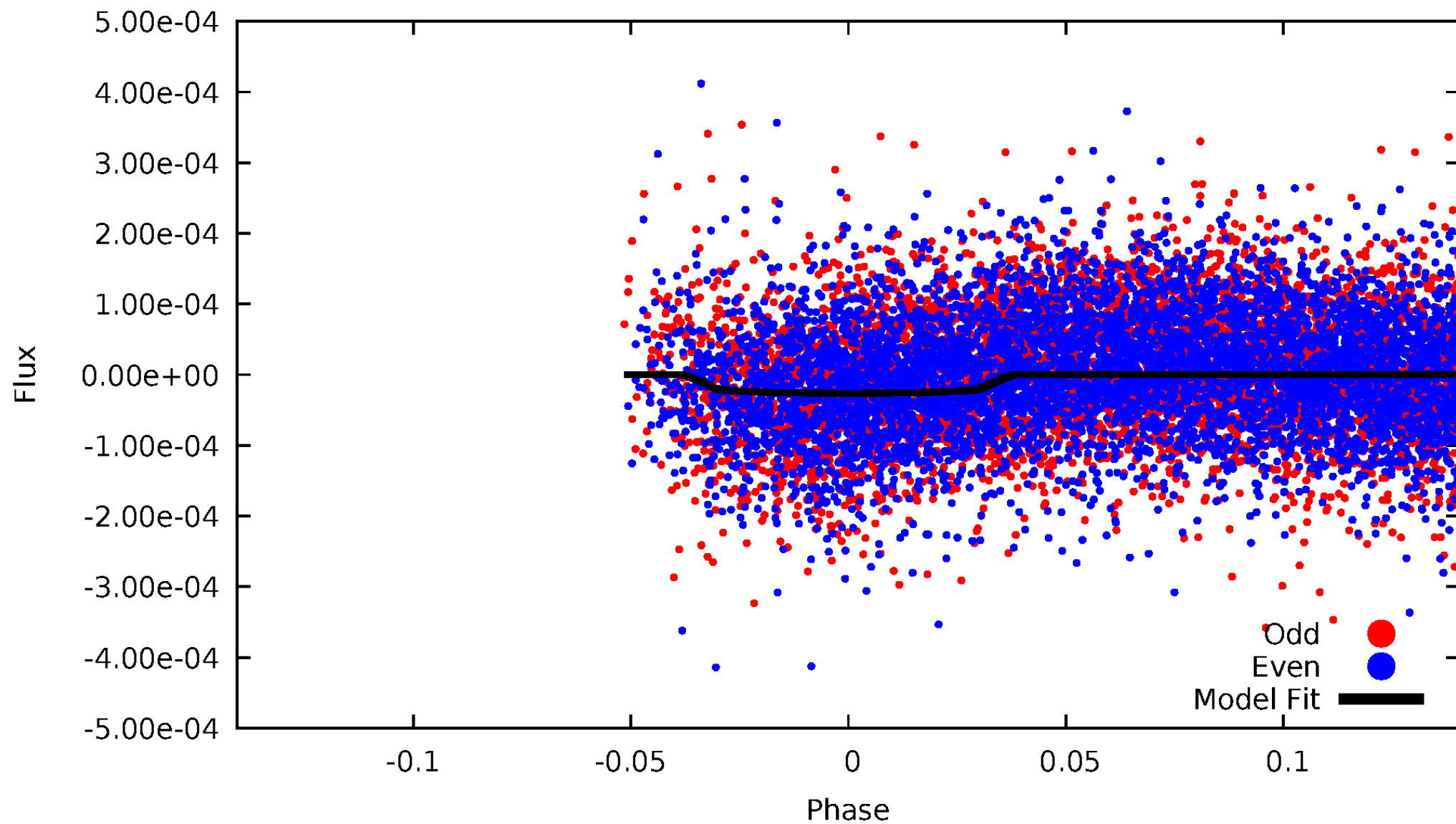


TCE 007668911-02



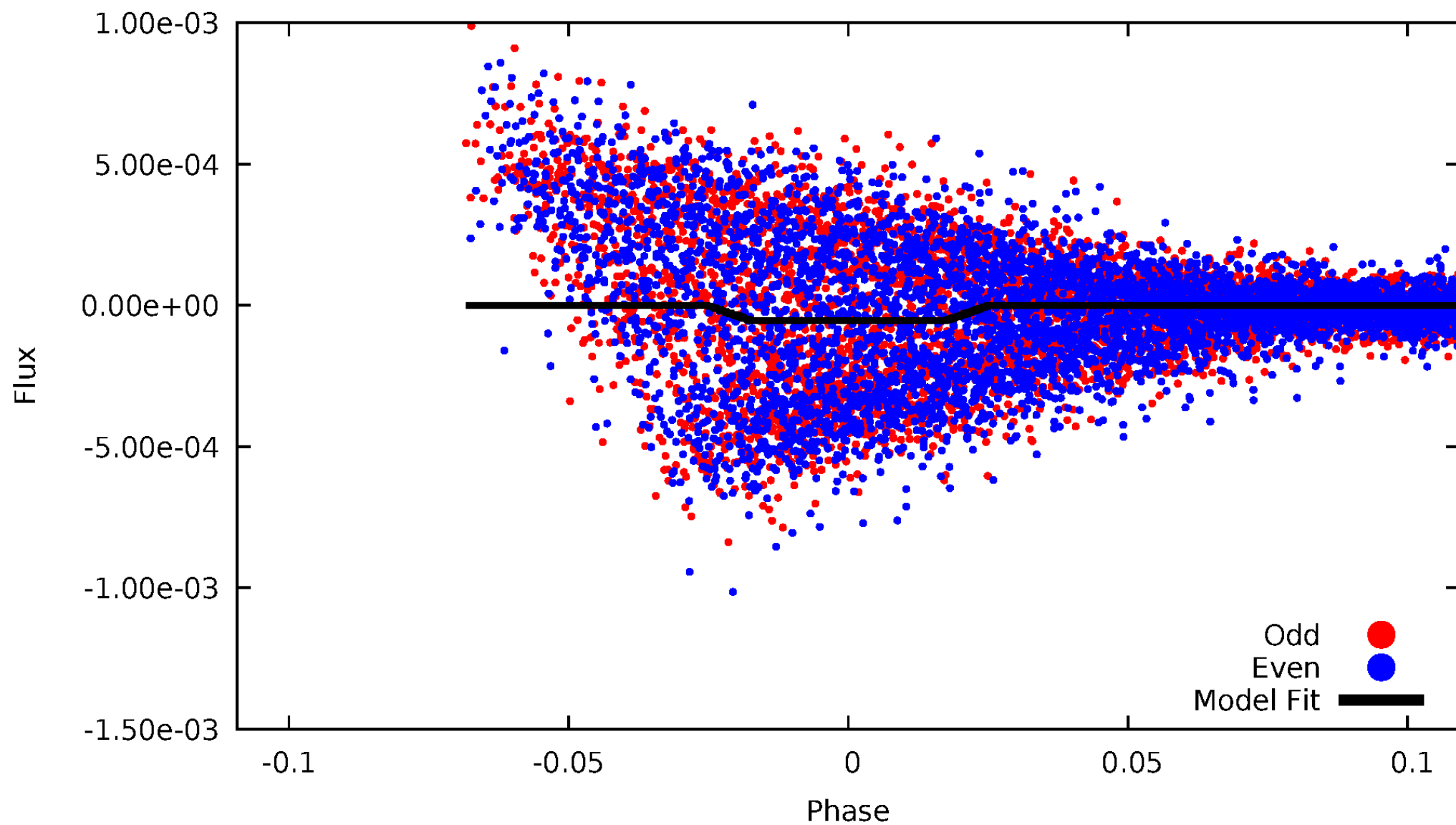
DV Odd/Even

TCE 007668911-02



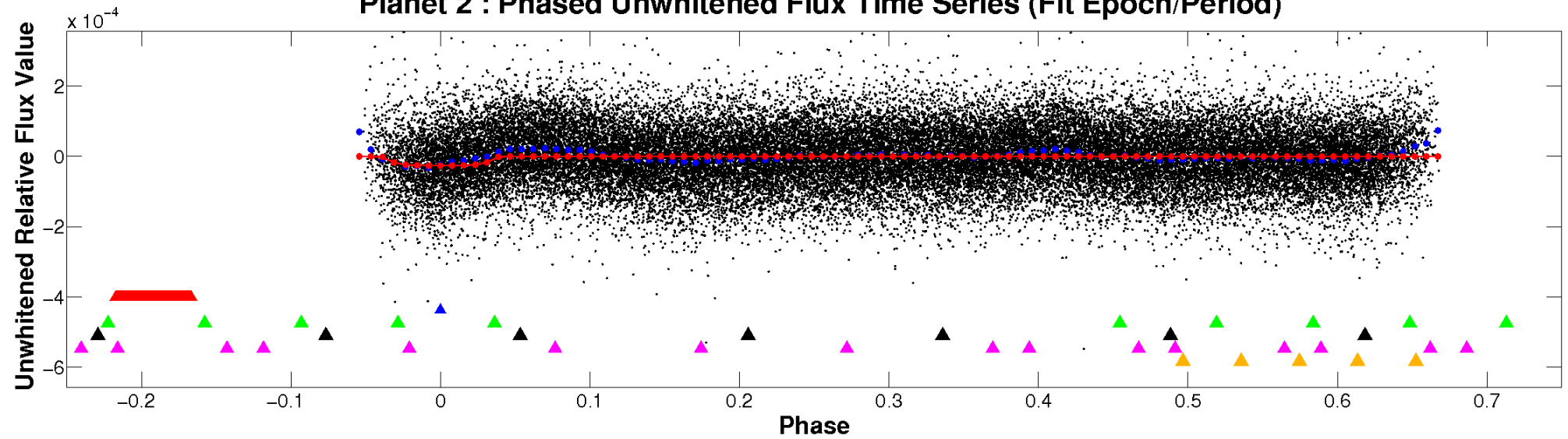
ALT Odd/Even

TCE 007668911-02

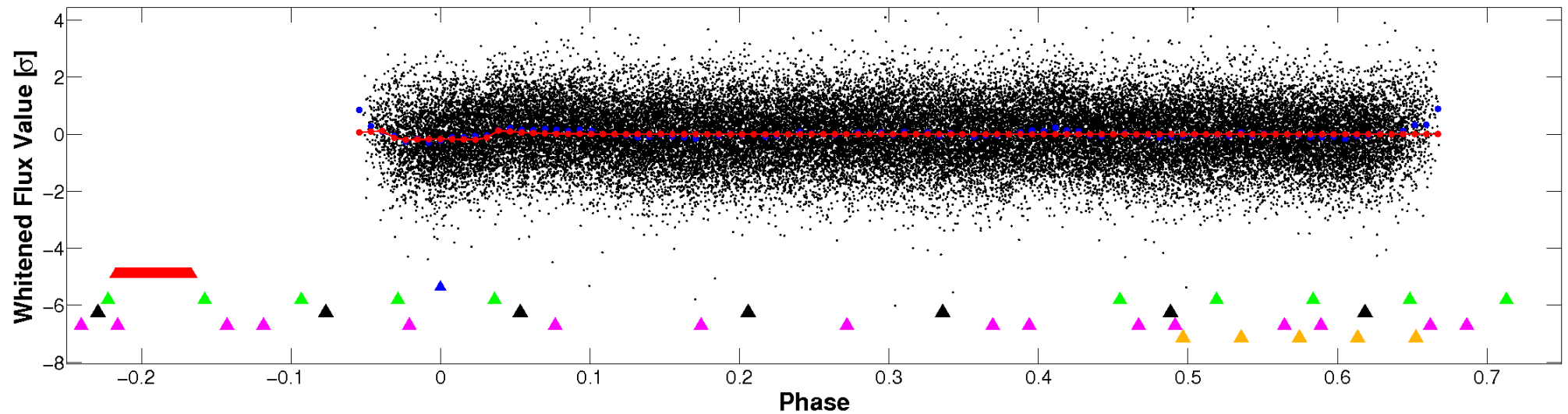


Non-Whitened Vs. Whitened Light Curve

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

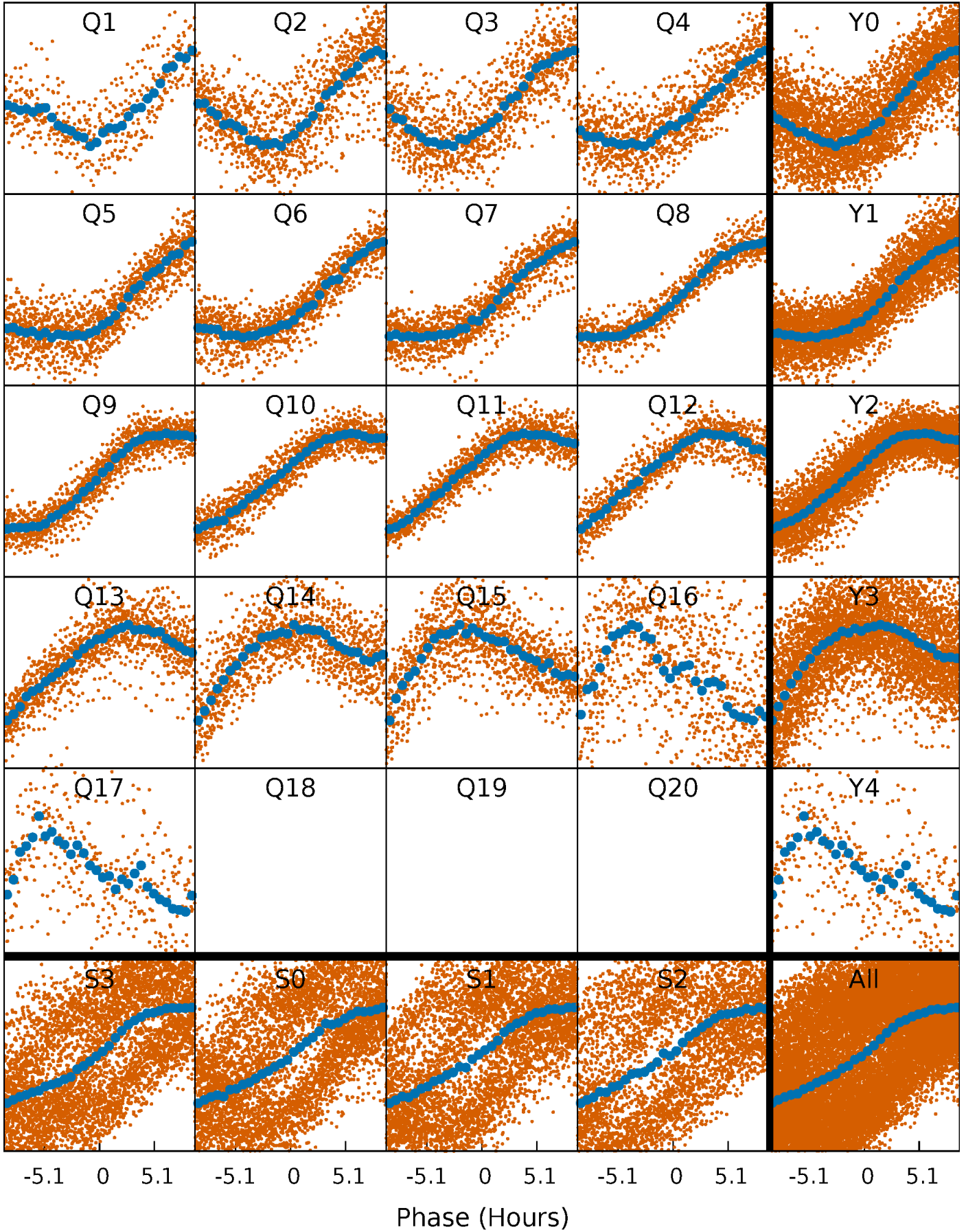


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



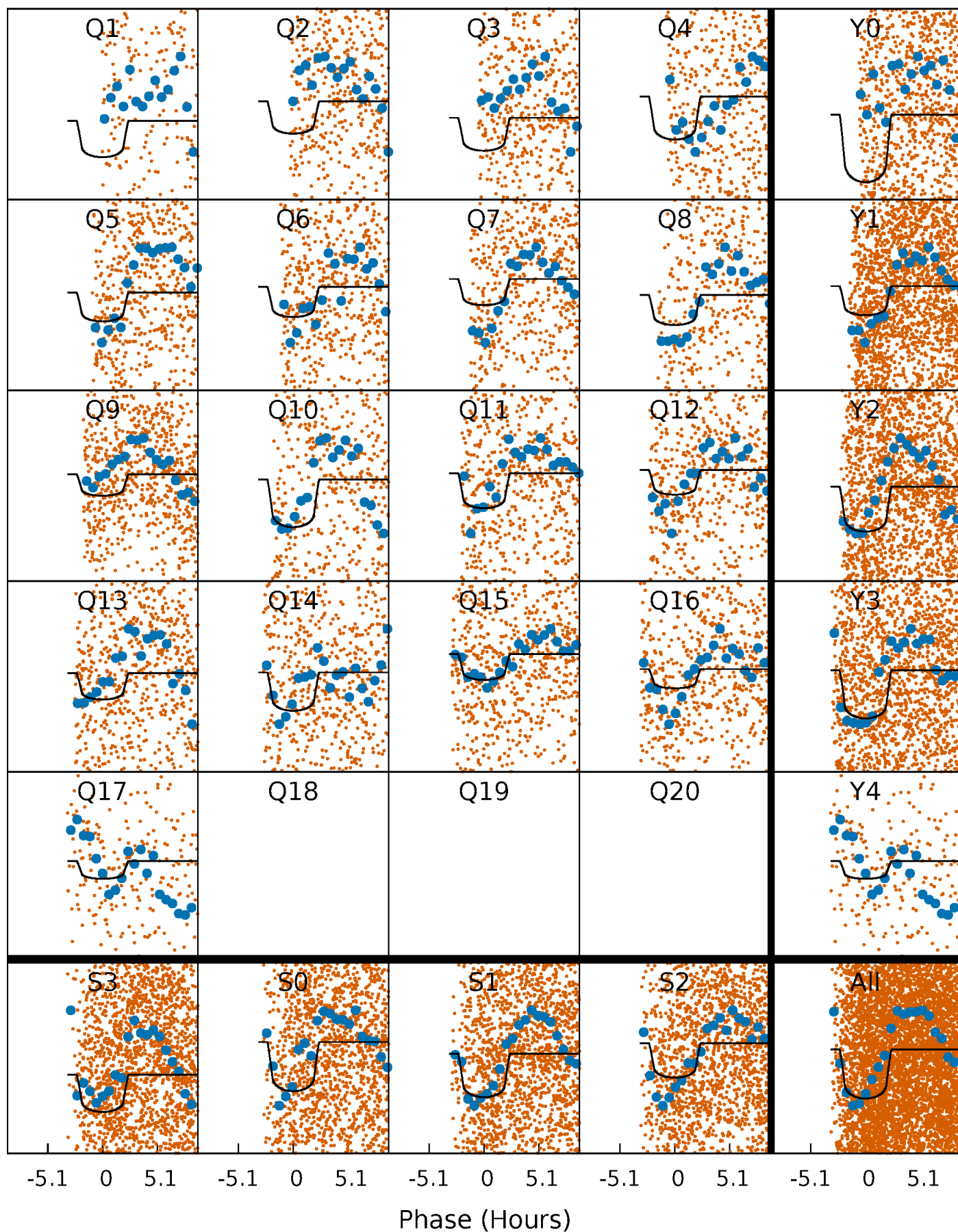
PDC Quarter-Phased Transit Curves

TCE 007668911-02 P= 2.633732 Days $T_0=132.126409$ (BKJD)



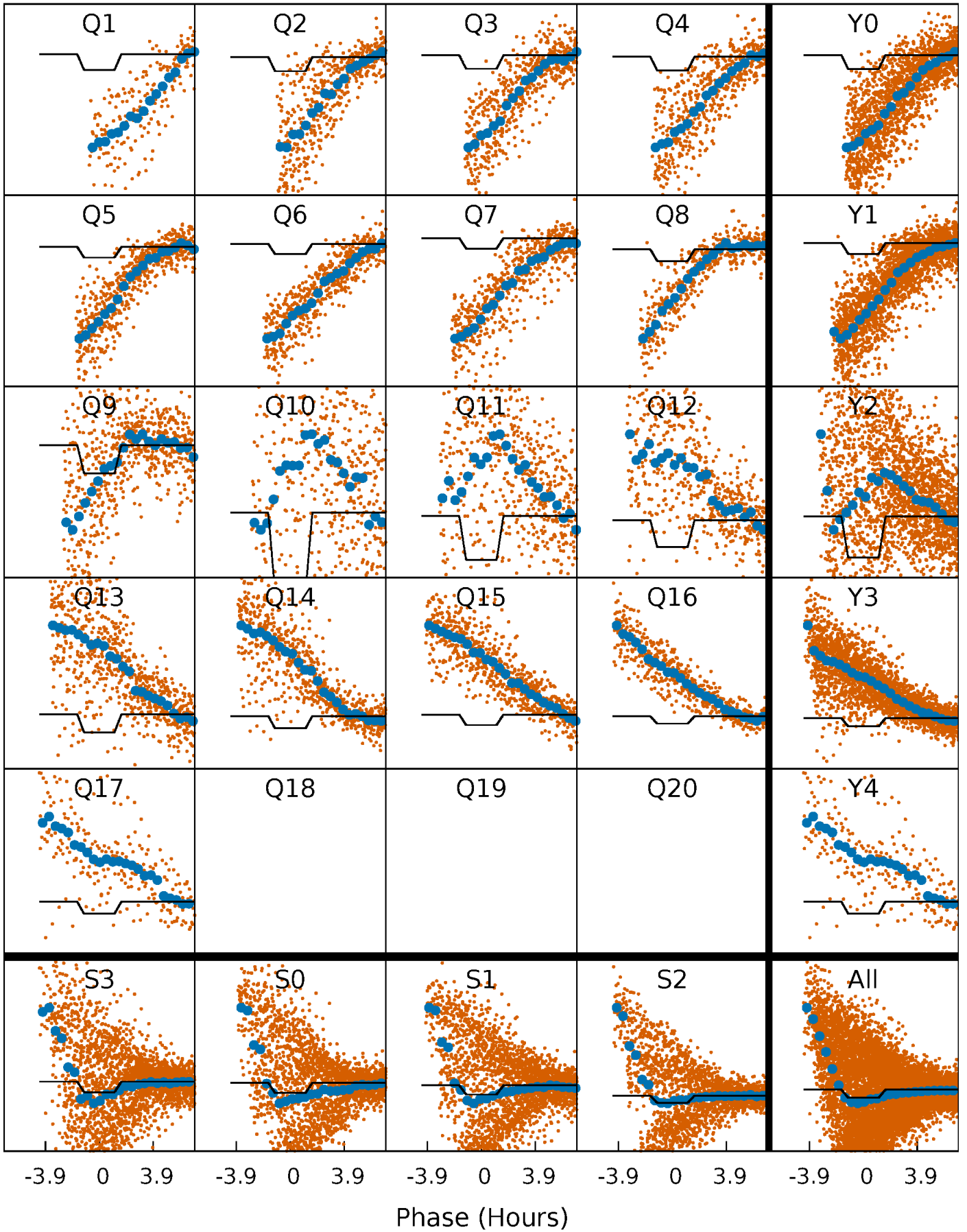
DV Quarter-Phased Transit Curves

TCE 007668911-02 P= 2.633732 Days $T_0=132.126409$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

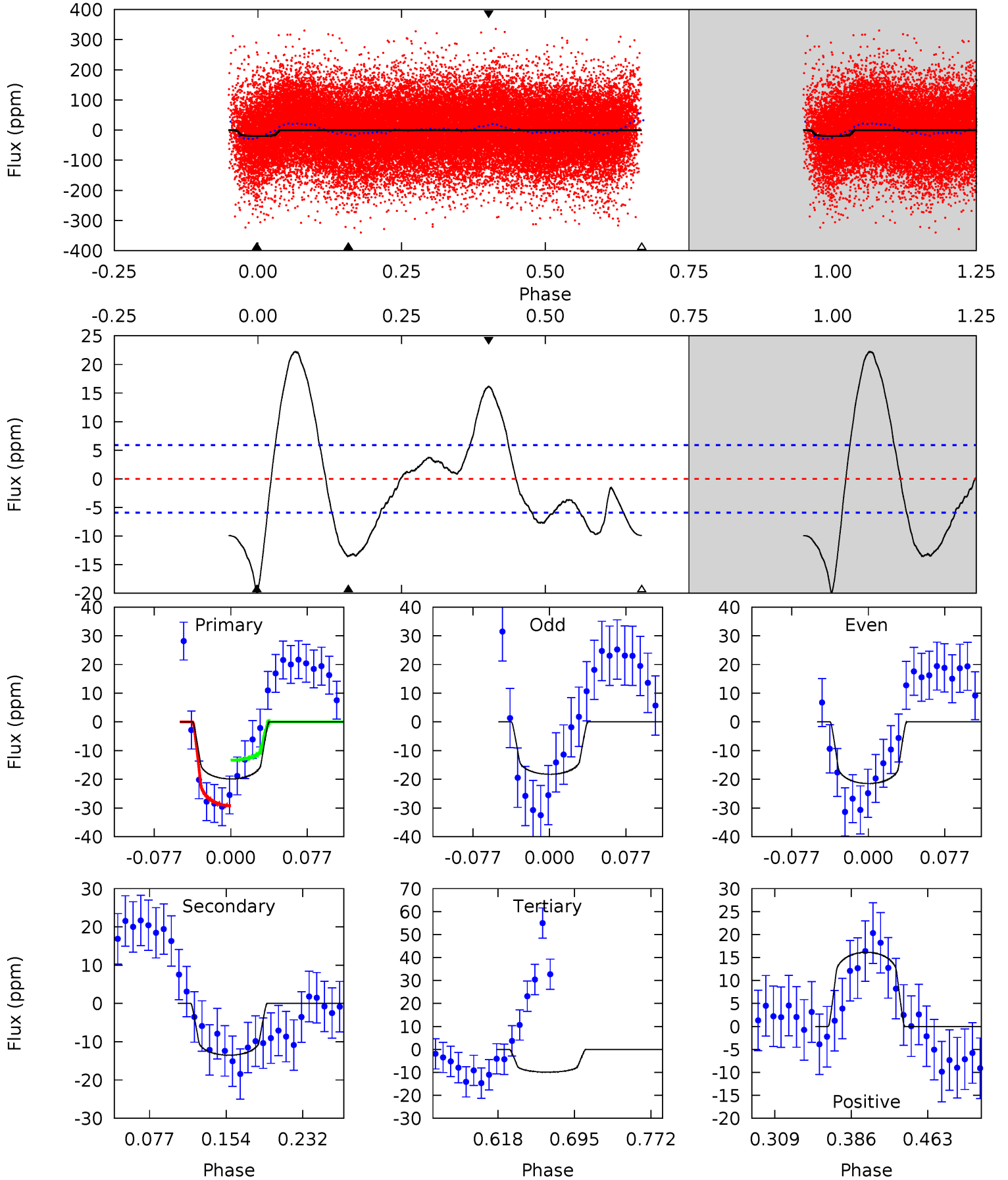
TCE 007668911-02 P= 2.633769 Days $T_0=132.150852$ (BKJD)



DV Model-Shift Uniqueness Test

007668911-02, P = 2.633732 Days, E = 129.492677 Days

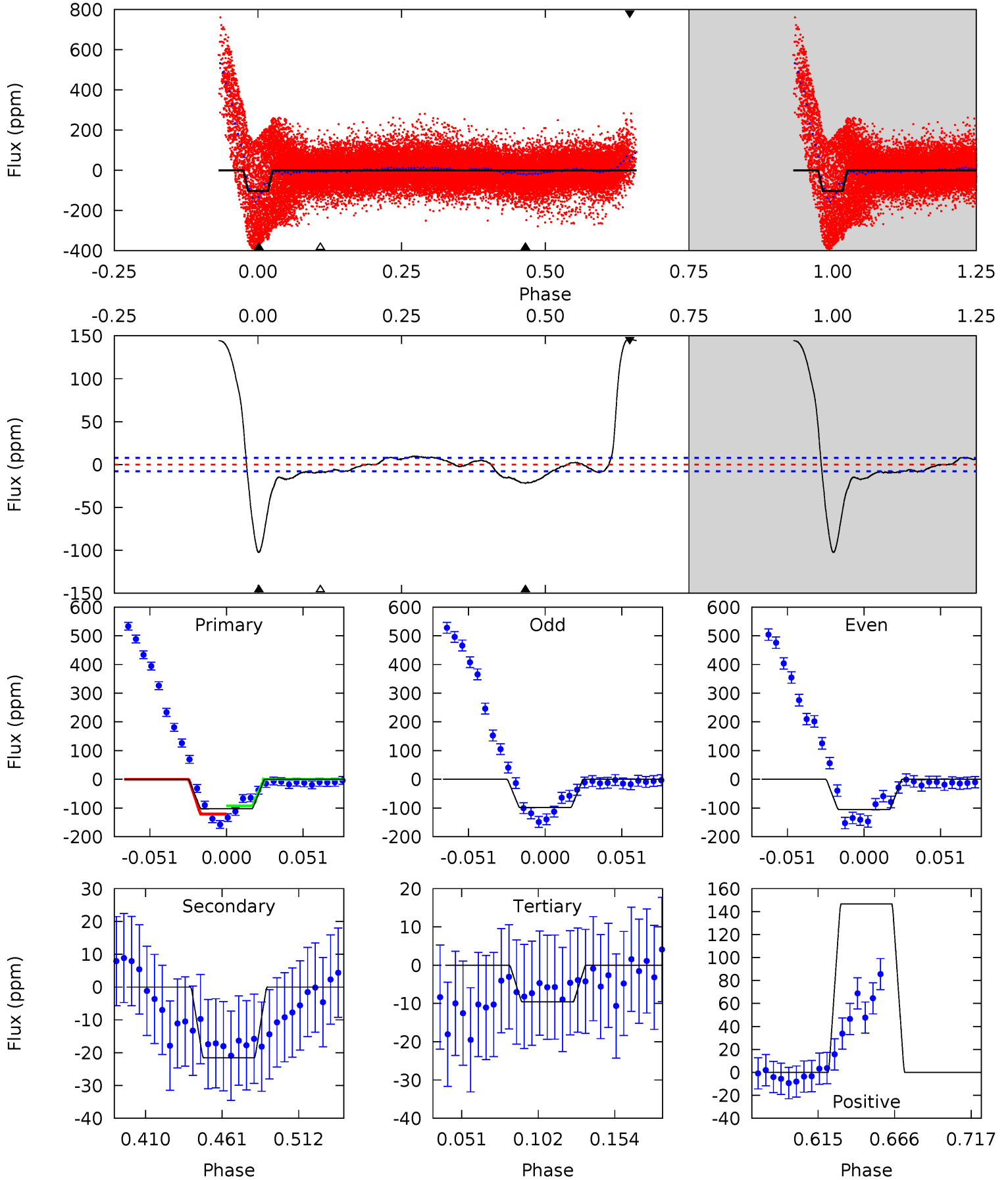
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.6	10.6	7.77	12.7	4.62	1.77	5.54	7.82	2.93	2.84	-2.05	1.26	1.04	0.53	6.09



Alt Model-Shift Uniqueness Test

007668911-02, P = 2.633769 Days, E = 129.517083 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
61.4	12.9	5.75	87.9	4.70	1.95	13.8	55.7	-26.5	7.19	-75.0	2.06	0.74	0.59	6.77



Stellar Parameters For KIC 007668911

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6742^{+189}_{-284}	$4.217^{+0.132}_{-0.182}$	$-0.180^{+0.250}_{-0.300}$	$1.458^{+0.447}_{-0.298}$	$1.288^{+0.182}_{-0.202}$	$0.585^{+0.435}_{-0.308}$
	+3%/-4%	+3%/-4%	+139%/-167%	+31%/-20%	+14%/-16%	+74%/-53%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 007668911-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-14 ± 1	$0.88^{+0.23}_{-0.17}$	2508^{+189}_{-169}	5468^{+527}_{-421}	15^{+9}_{-5}
Alt.	-22 ± 2	$1.17^{+0.24}_{-0.19}$	2484^{+204}_{-149}	5330^{+381}_{-325}	14^{+6}_{-4}

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 $A_{obs} \gg 1.0$

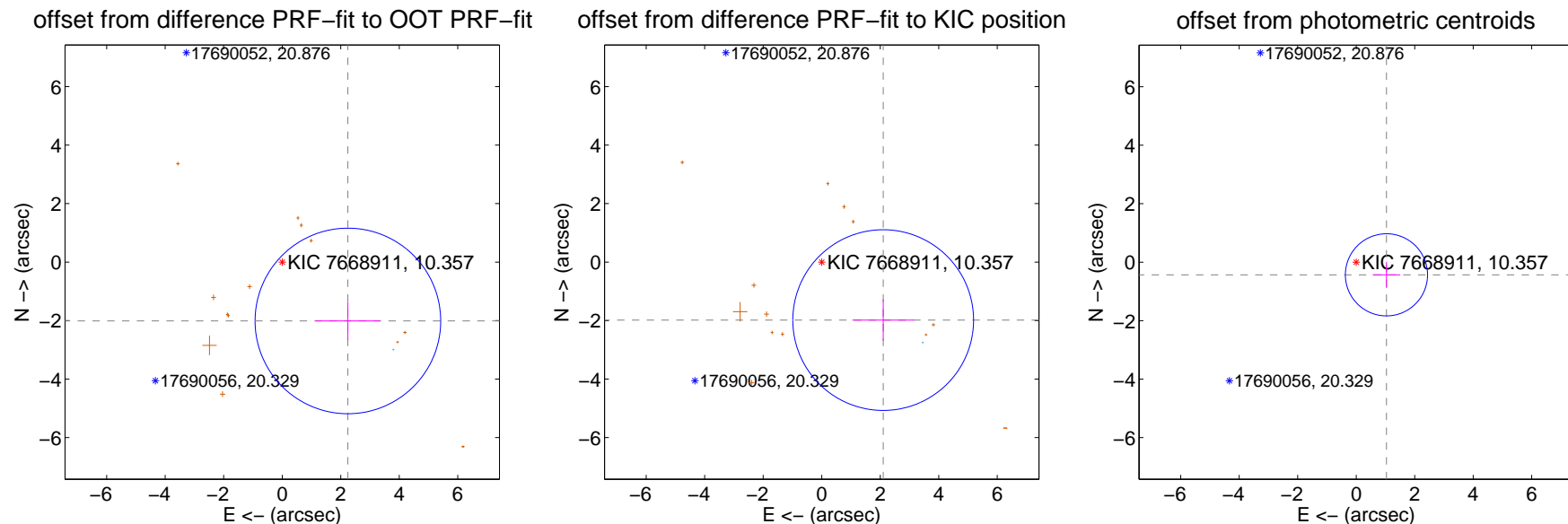
DV Centroid Data

Supplemental centroid analysis for 007668911-02. **Kepler magnitude: 10.36.** Transit SNR 11.21

There are 1 quarters with good PRF difference image offsets

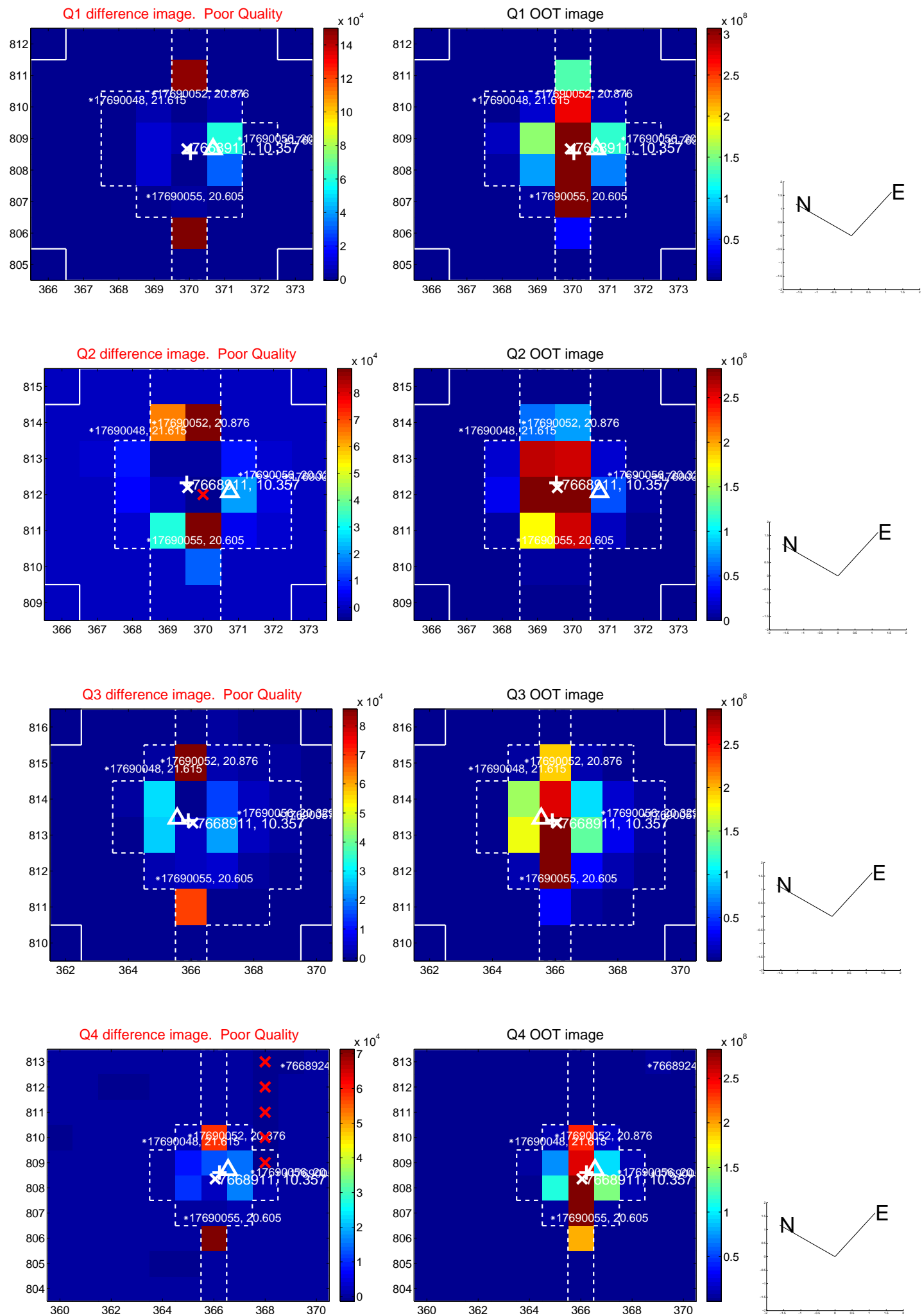
The direct PRF centroid is offset from the target star catalog position by about 0.75 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.015 ± 1.058	2.85	-2.245 ± 1.107	-2.013 ± 0.651
PRF-fit source offset from KIC position	2.890 ± 1.030	2.81	-2.102 ± 1.051	-1.984 ± 0.705
photometric centroid source offset	1.12 ± 0.47	2.40	-1.03 ± 0.47	-0.43 ± 0.45

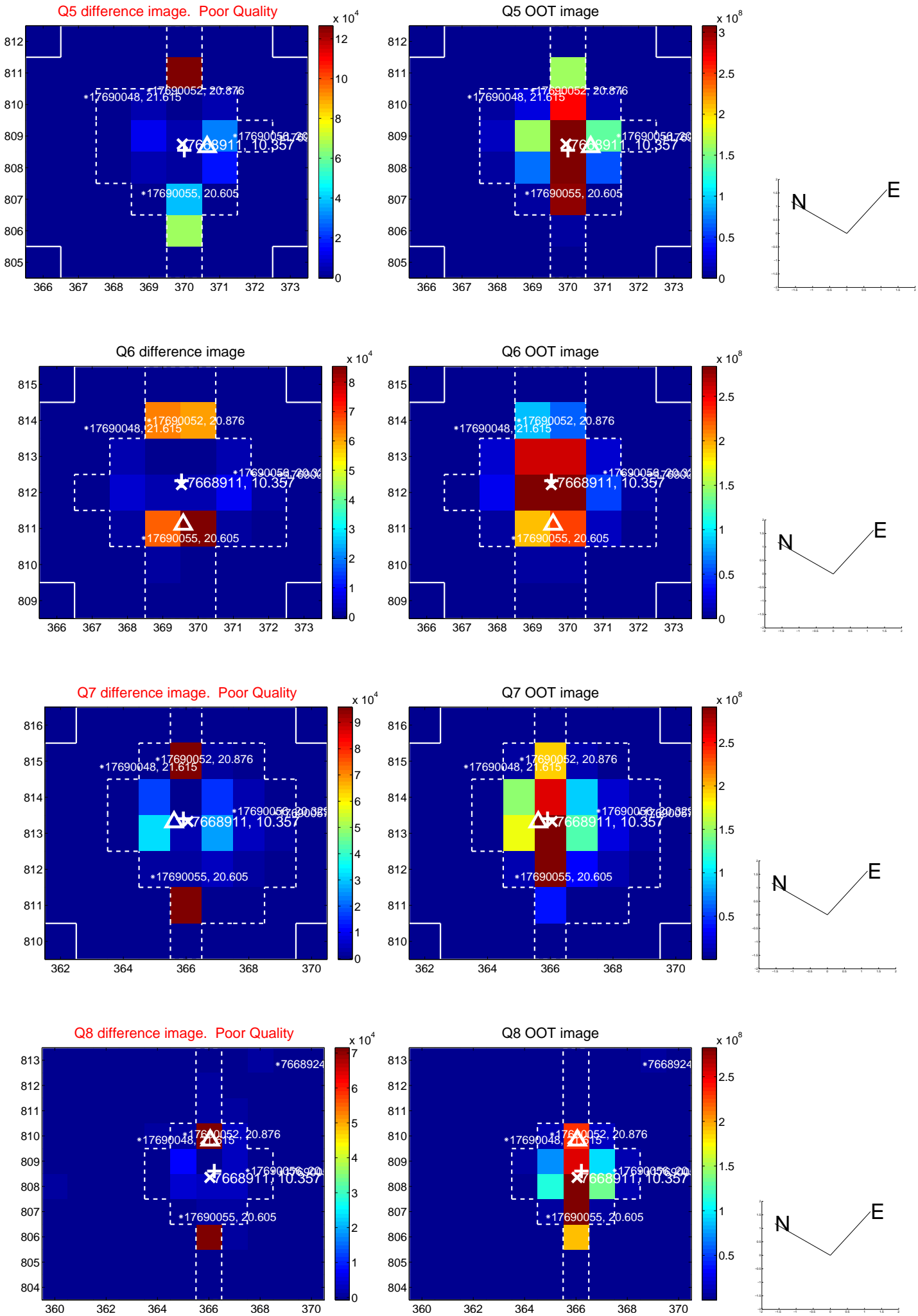


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

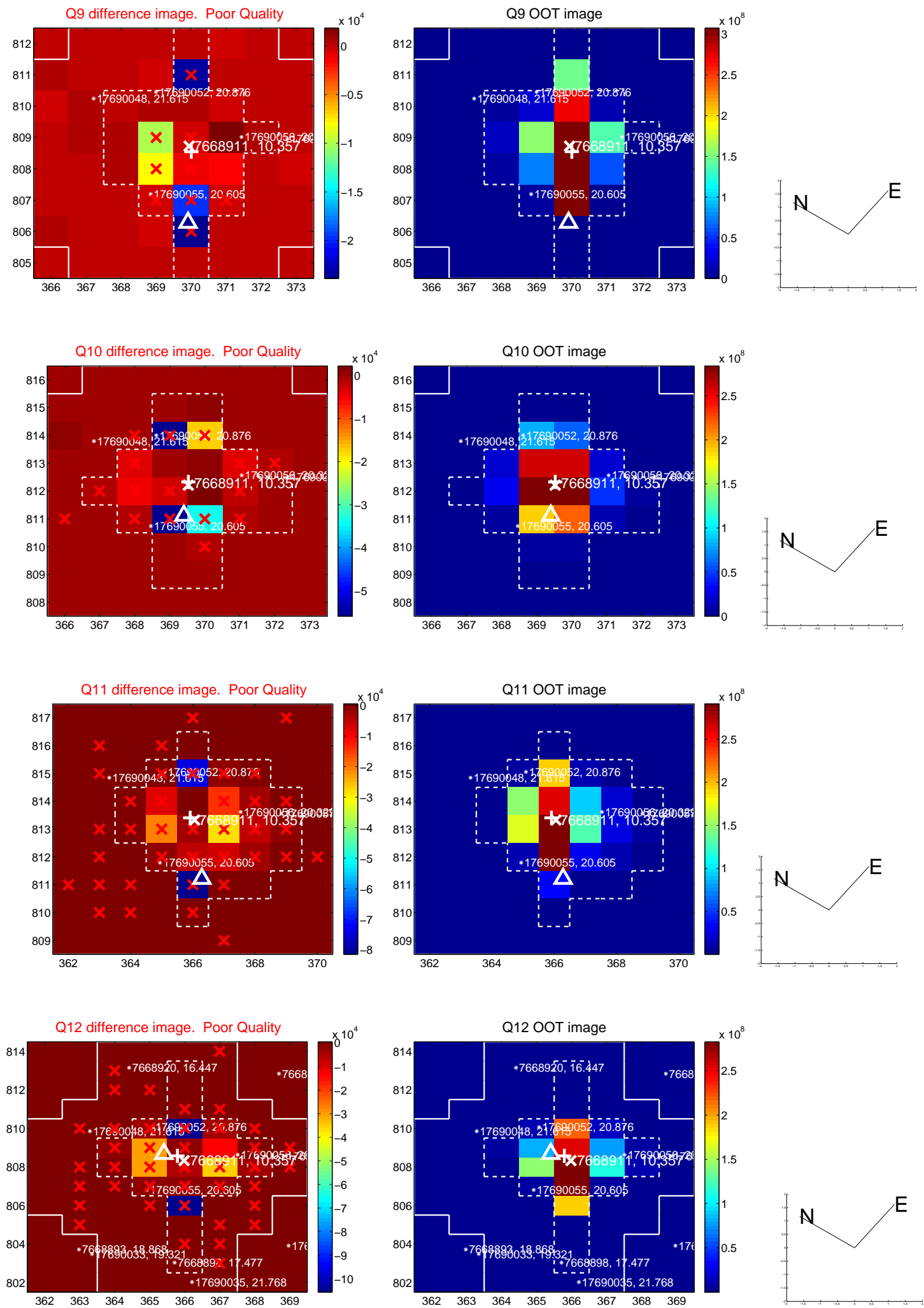
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



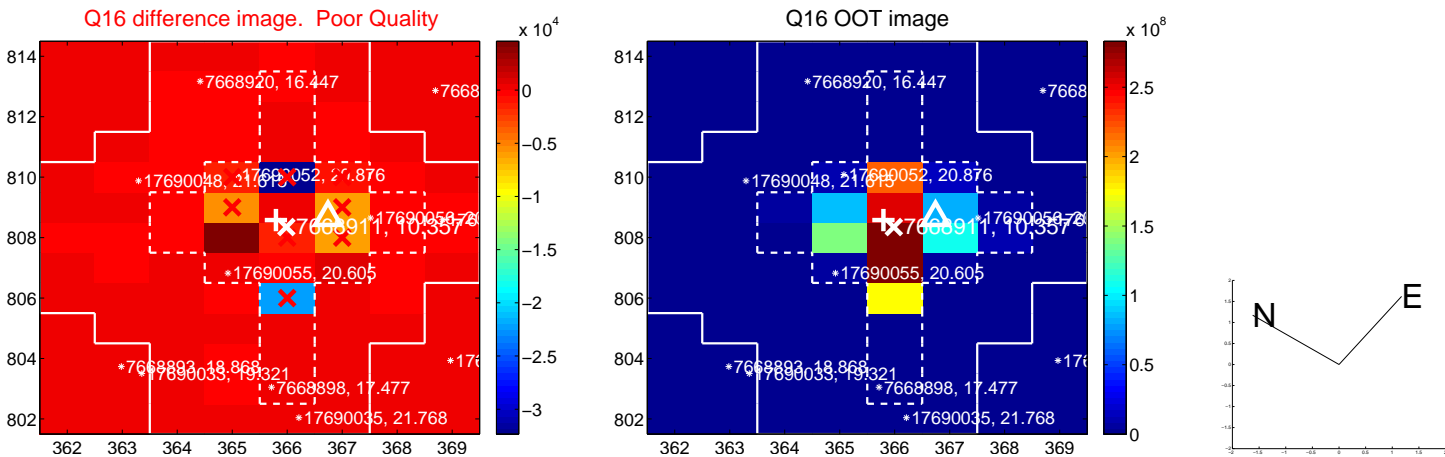
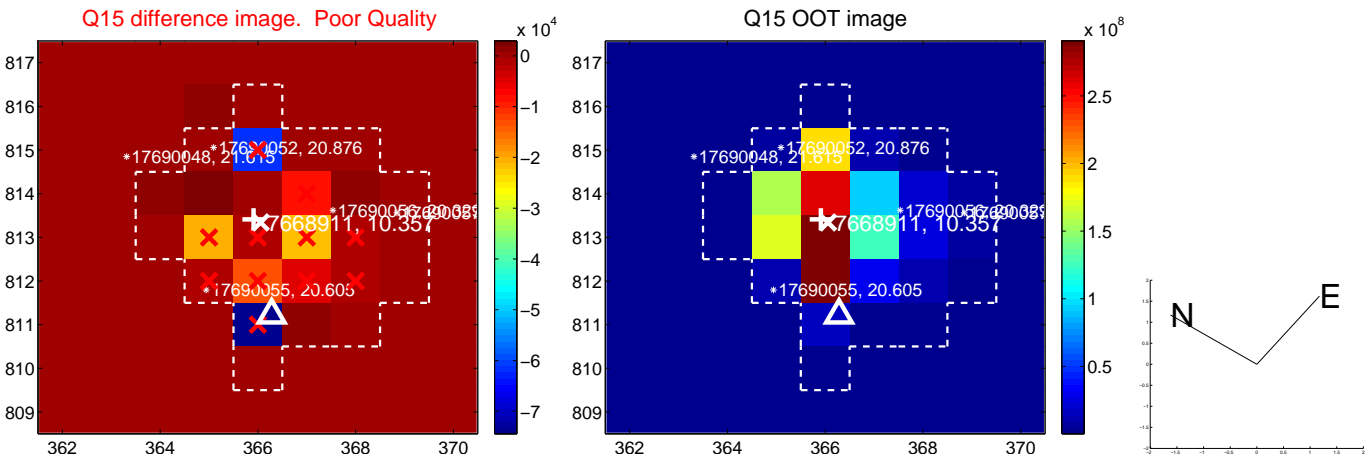
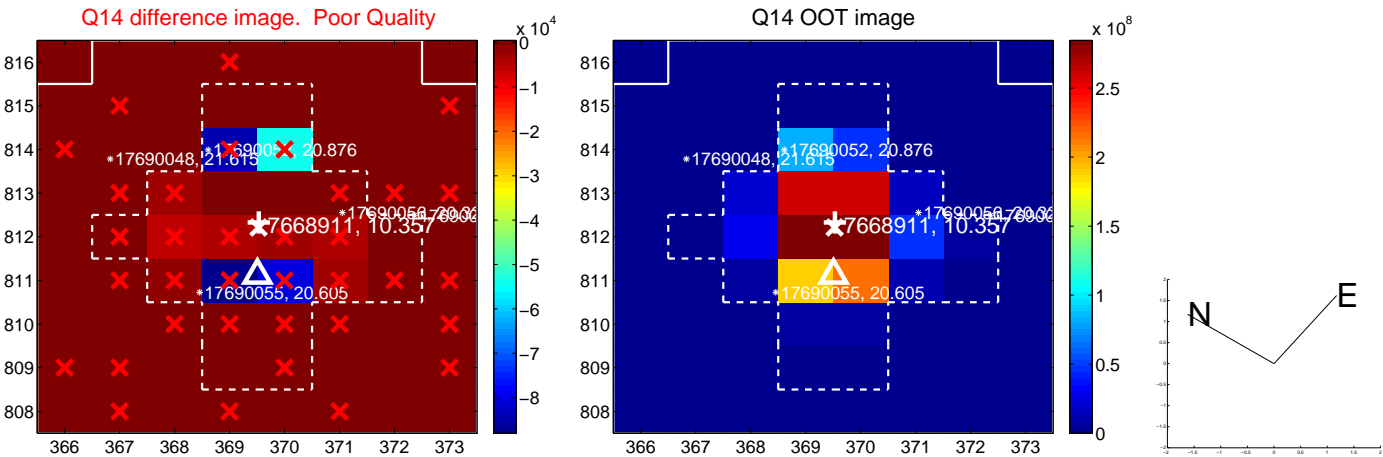
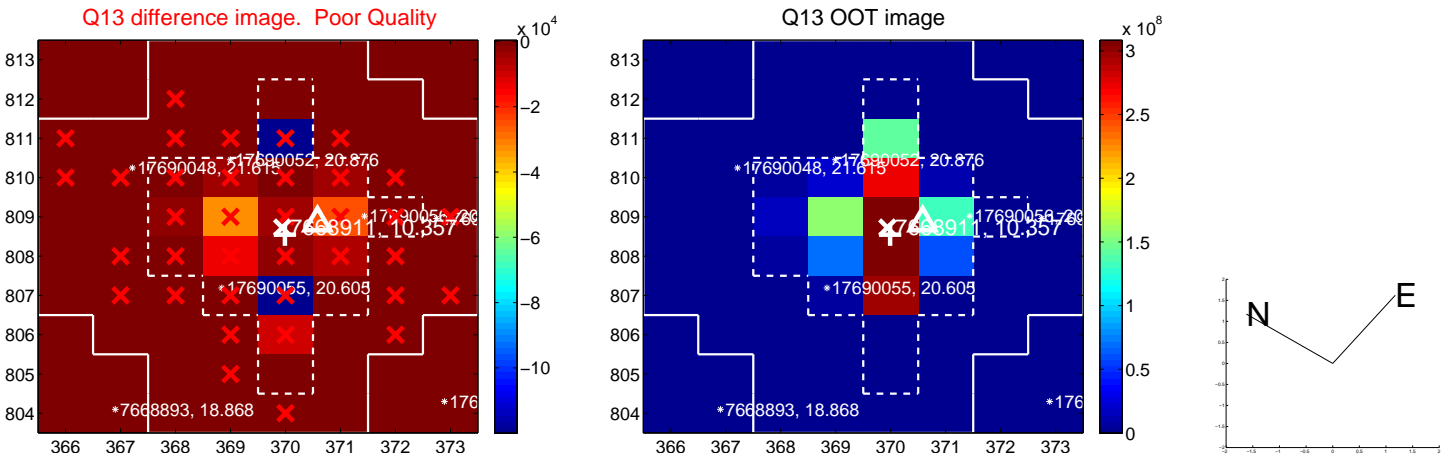
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



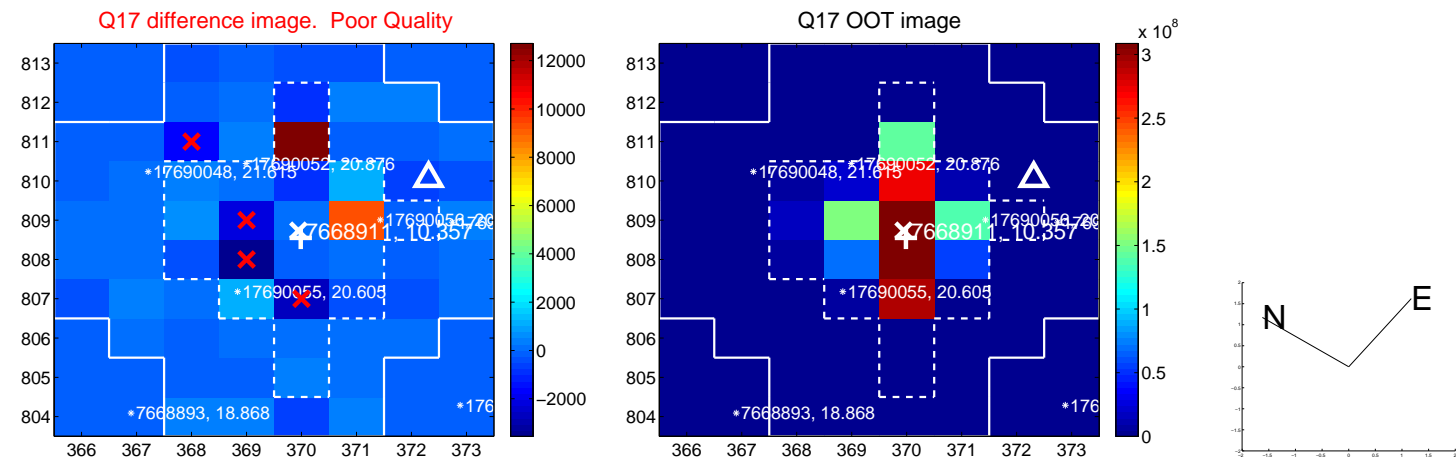
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



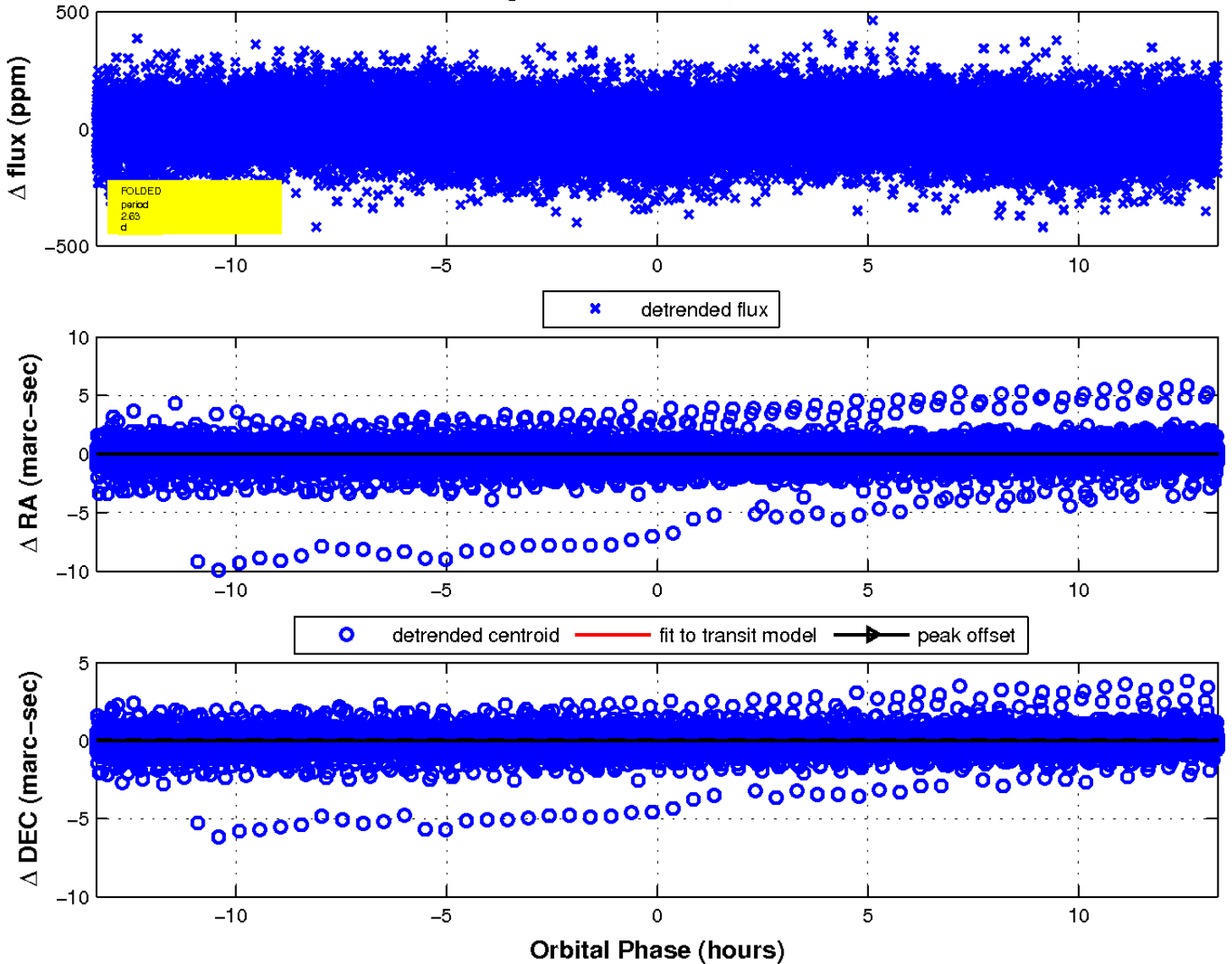
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



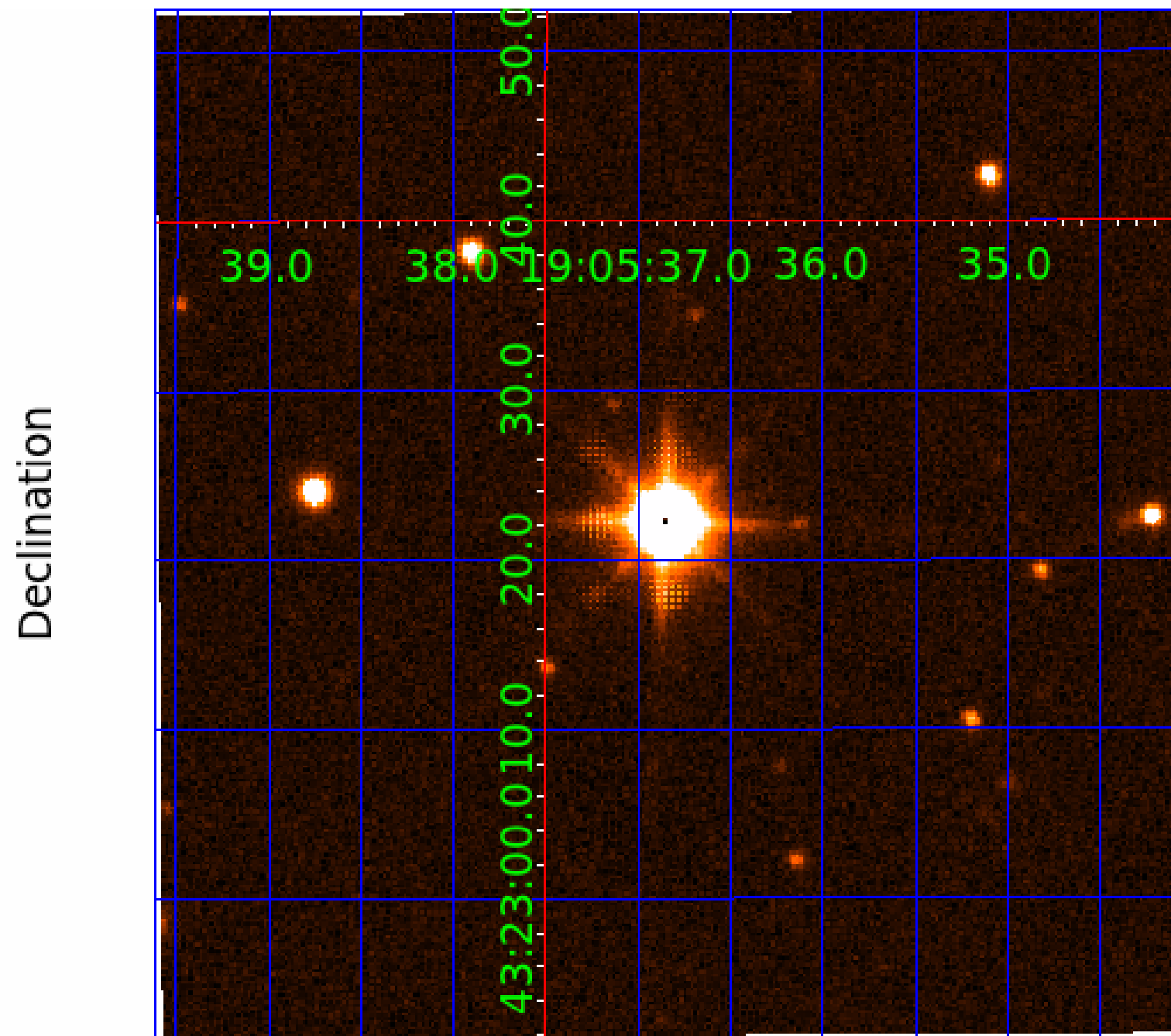
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 2 of 6



UKIRT Image



KIC 007668911

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})
007668911-01	OBS	No	2.633491	131.687535	20.3	6.785	10.1	8.6	1.46	6742	0.81	2397.98
007668911-02	OBS	No	2.633732	132.126409	26.4	4.439	9.4	11.2	1.46	6742	0.88	2397.68
007668911-04	OBS	No	211.442658	195.134093	154.6	9.879	8.2	7.0	1.46	6742	2.00	6.92
007668911-05	OBS	No	89.803845	154.233544	116.3	3.838	7.8	8.1	1.46	6742	1.88	21.68
007668911-06	OBS	No	258.003167	376.148277	137.0	11.434	7.6	6.5	1.46	6742	1.72	5.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007668911-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007668911-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
007668911-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—CENT_SATURATED
007668911-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
007668911-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

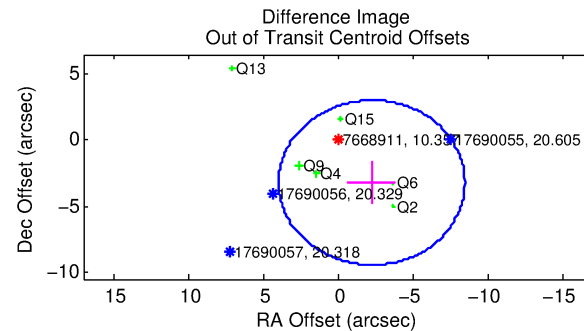
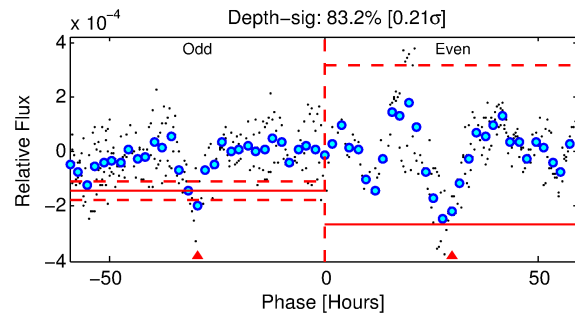
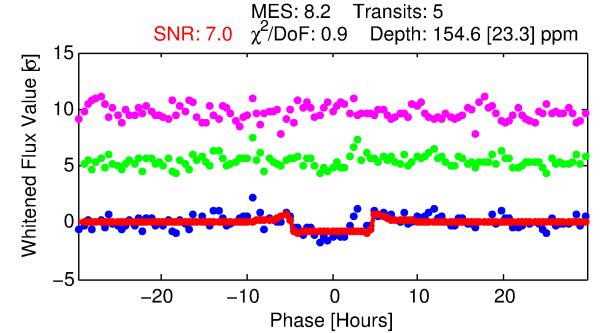
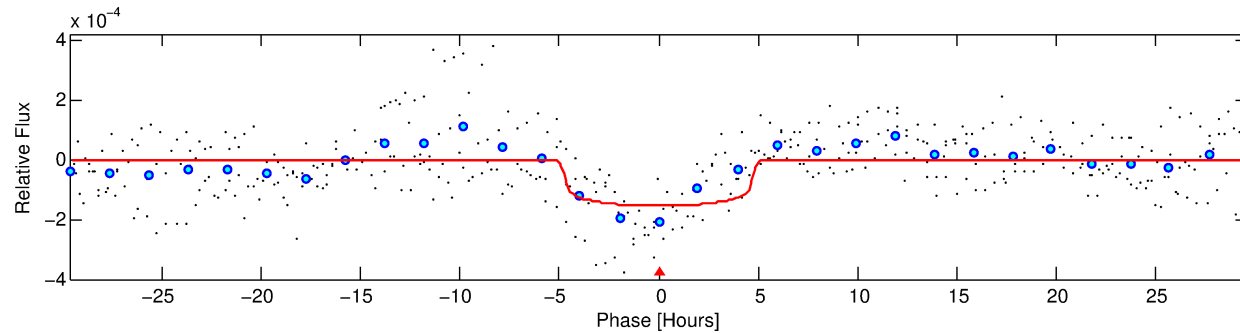
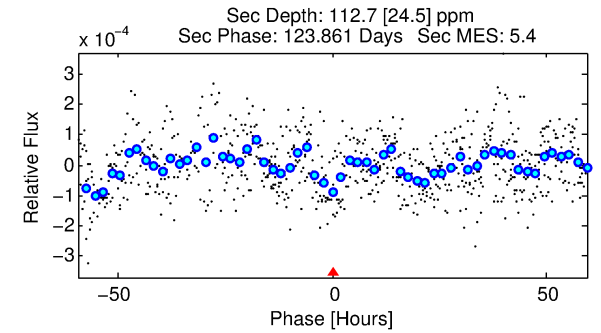
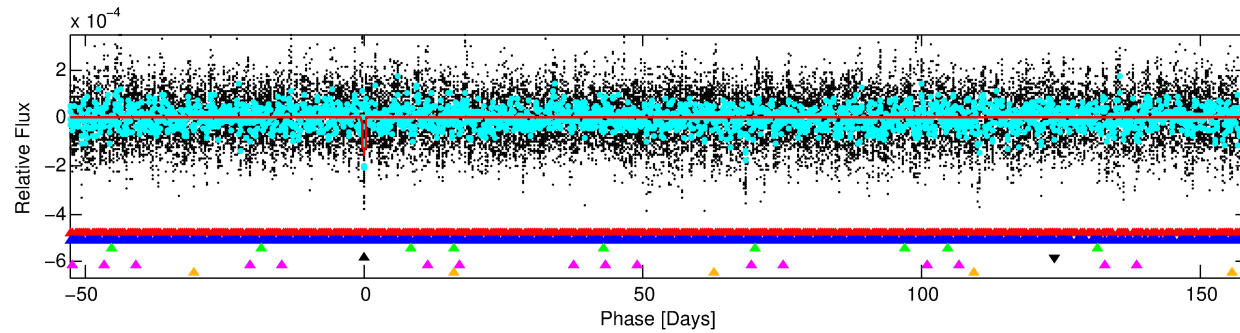
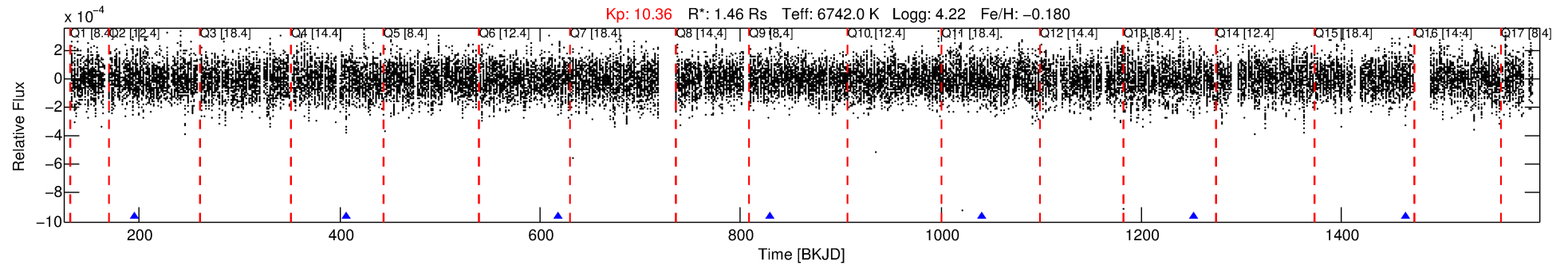
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007668911-04

No Significant Match Found

DV One-Page Summary

KIC: 7668911 Candidate: 4 of 6 Period: 211.443 d



DV Fit Results:

Period = 211.44266 [0.00220] d
Epoch = 195.1341 [0.0086] BKJD
Rp/R* = 0.0126 [0.0028]
a/R* = 101.17 [115.01]
b = 0.80 [0.50]
Seff = 6.92 [2.67]
Teq = 414 [40] K
Rp = 2.00 [0.76] Re
a = 0.7539 [0.1866] AU
Ag = 8794.11 [5304.81] [1.66σ]
Teffp = 6193 [808] K [7.14σ]

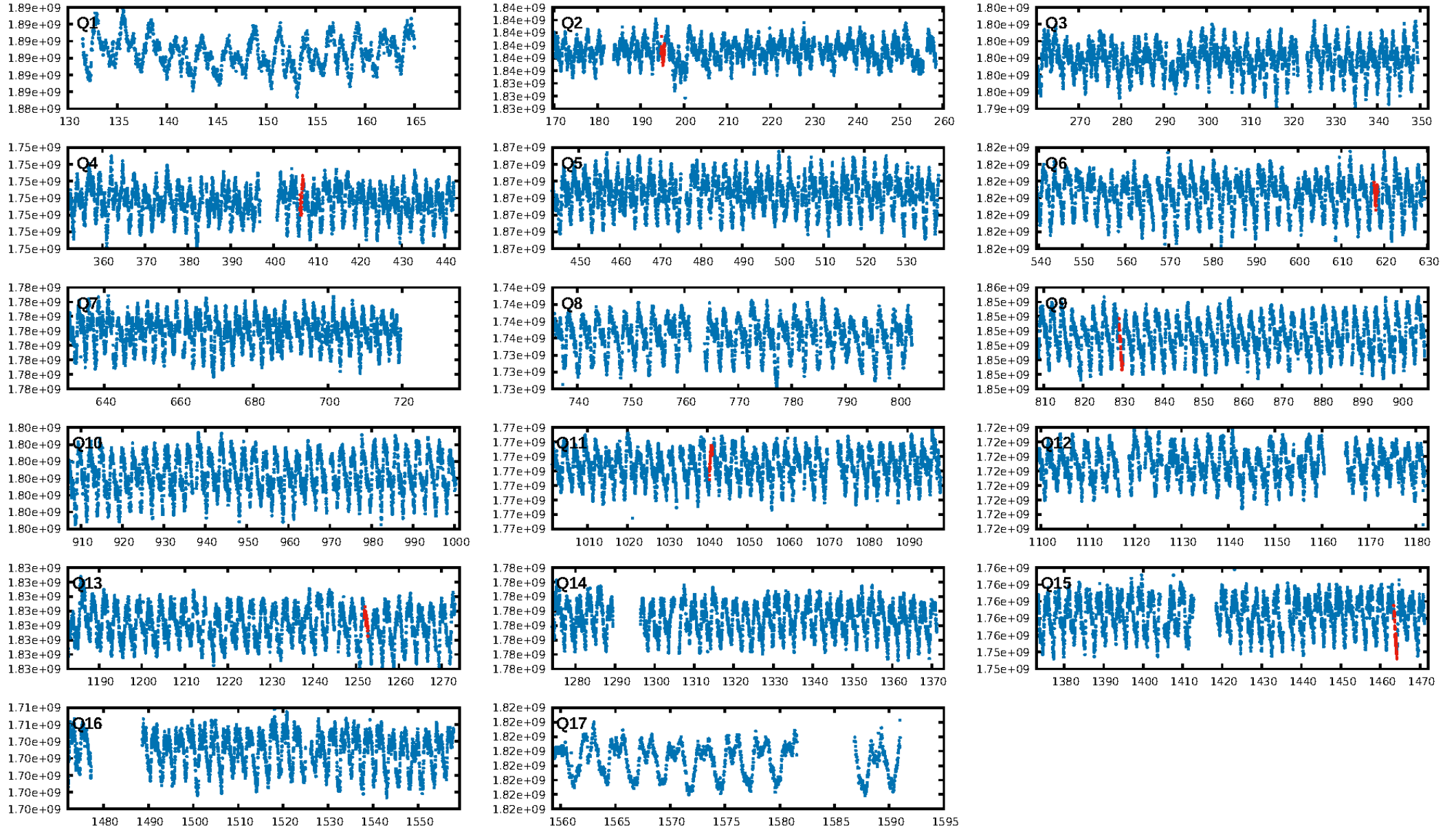
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [109.10σ]
LongPeriod-sig: 100.0% [73.95σ]
ModelChiSquare2-sig: 91.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.86e-10
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -6.199
Centroid-sig: 73.8%
Centroid-so: 0.362 arcsec [0.57σ]
OotOffset-rm: 3.934 arcsec [1.89σ]
KicOffset-rm: 3.498 arcsec [1.90σ]
OotOffset-st: 2/1/1/2 [6]
KicOffset-st: 2/1/1/2 [6]
DiffImageQuality-fgm: 0.17 [1/6]
DiffImageOverlap-fno: 0.17 [1/6]

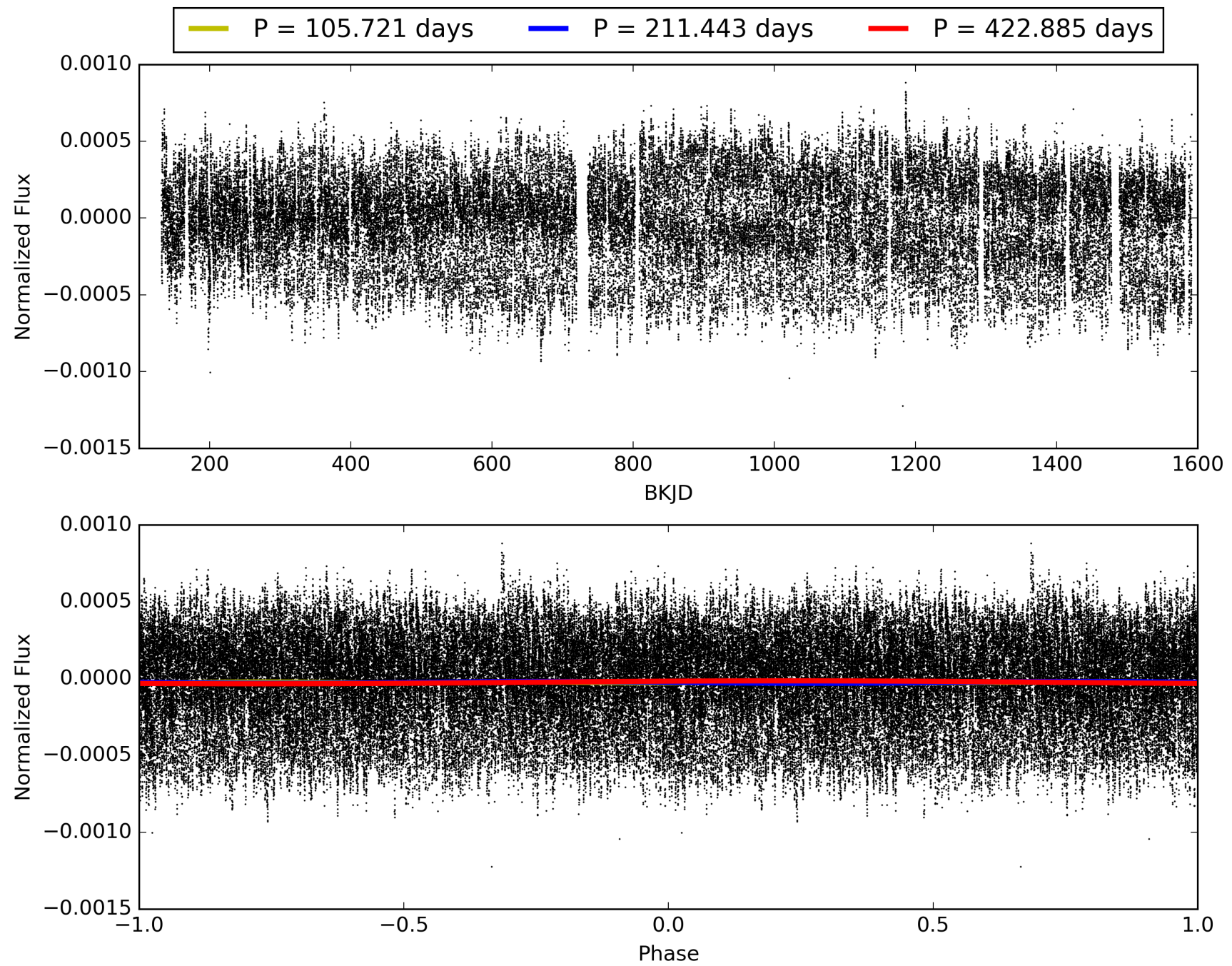
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 03:20:31 Z

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

TCE 007668911-04, PDC Light Curves

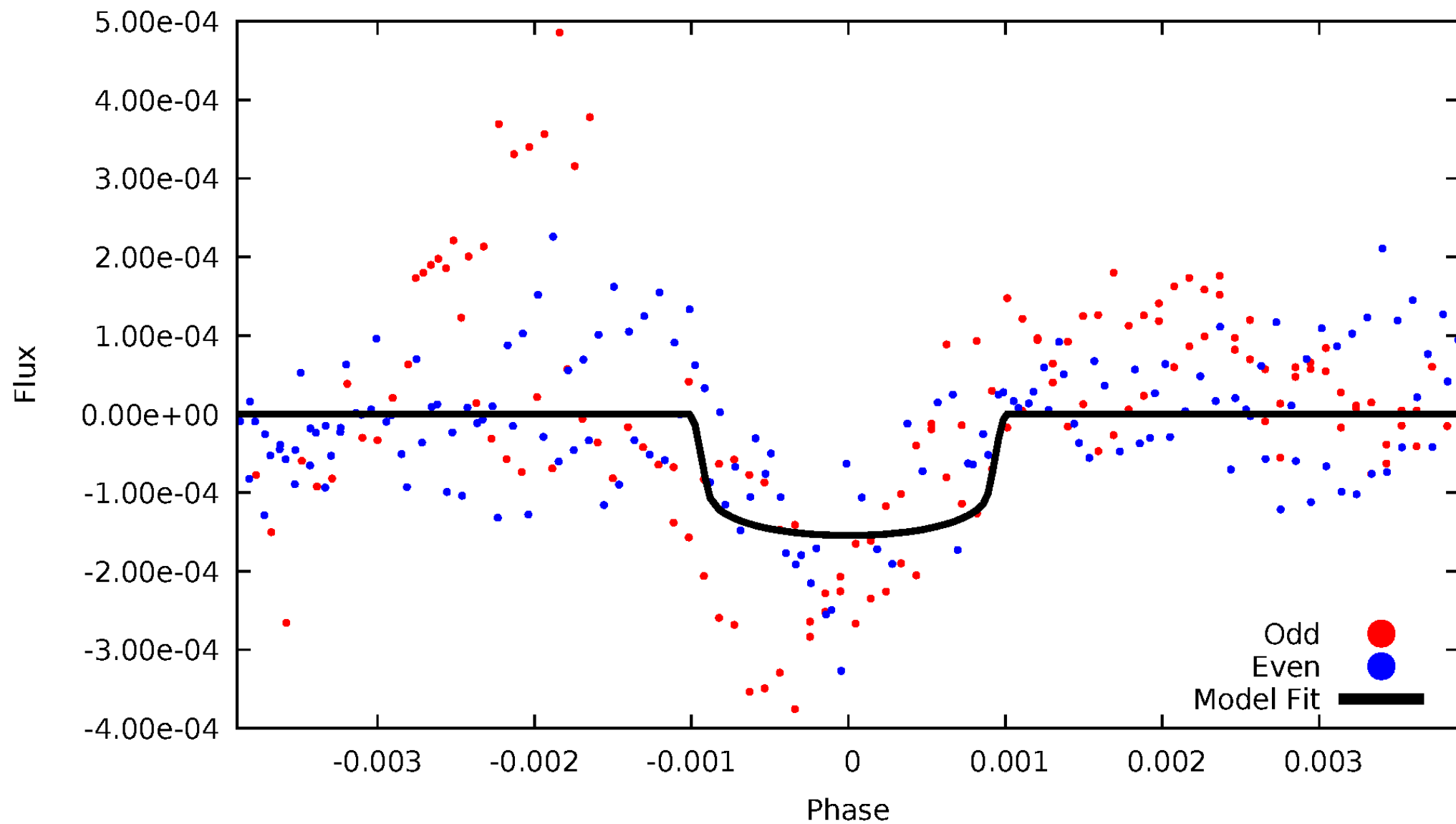


TCE 007668911-04



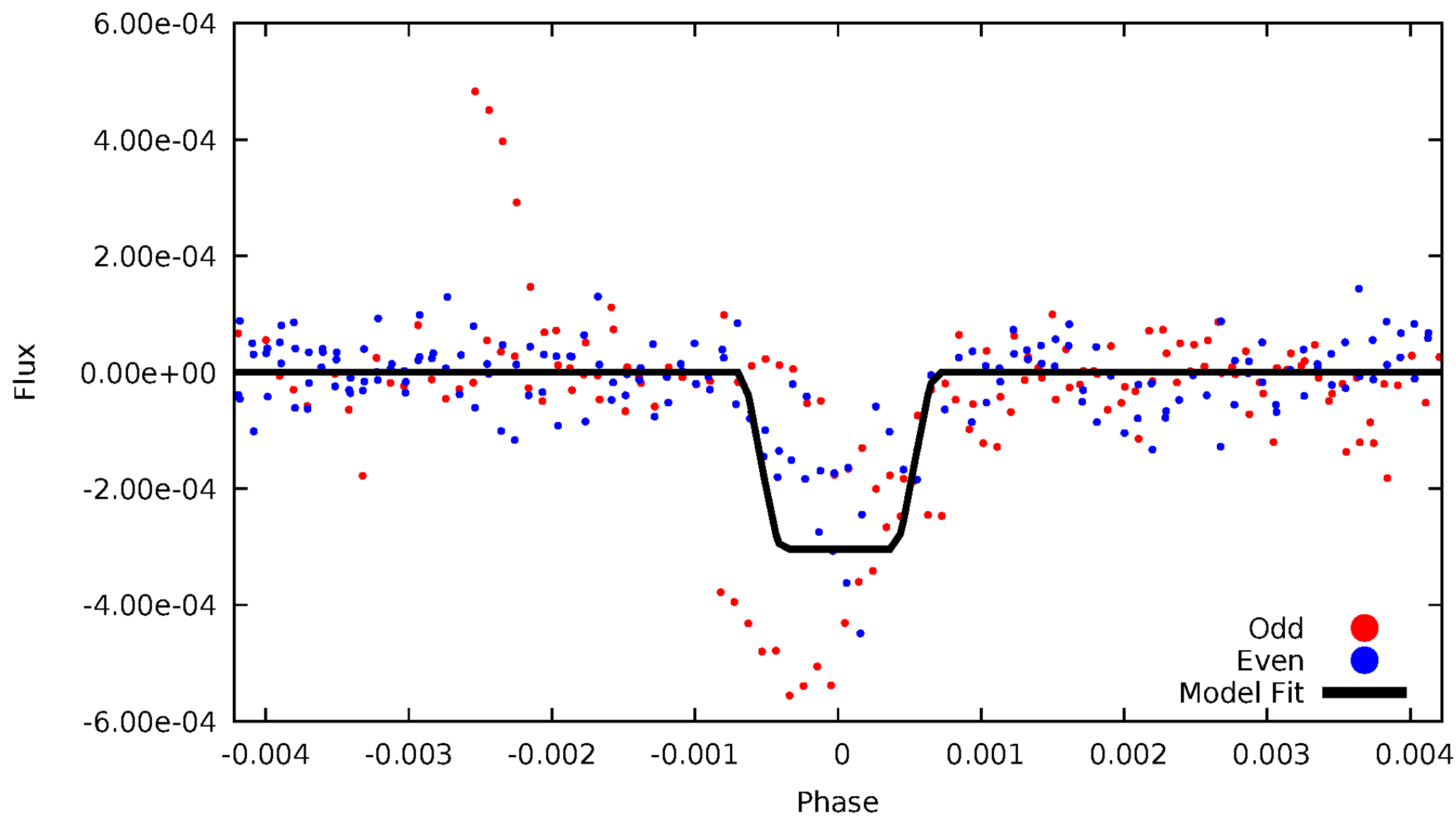
DV Odd/Even

TCE 007668911-04



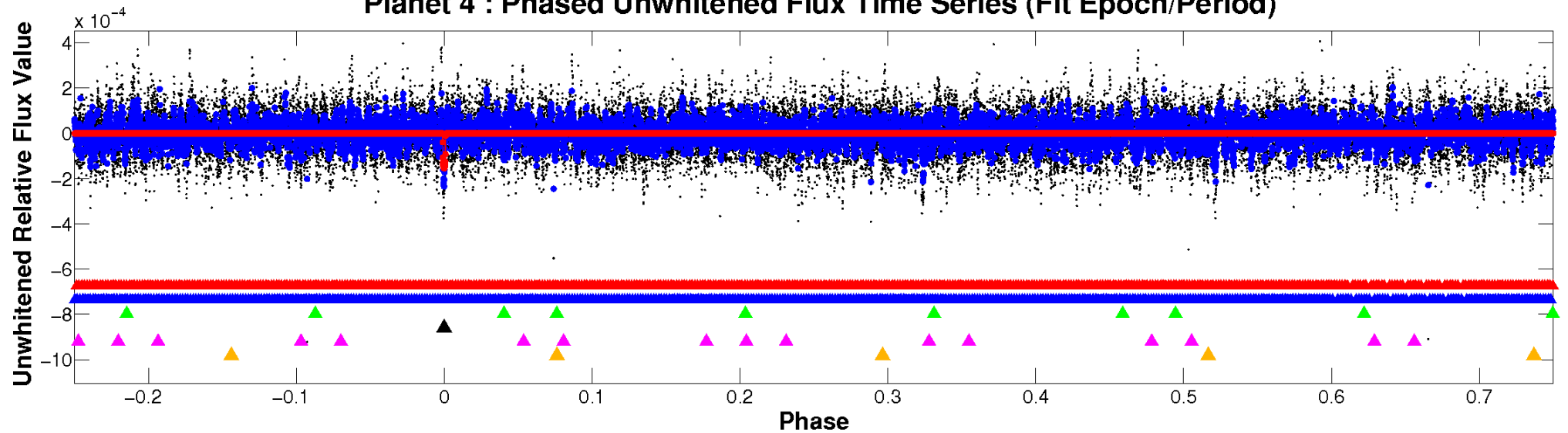
ALT Odd/Even

TCE 007668911-04

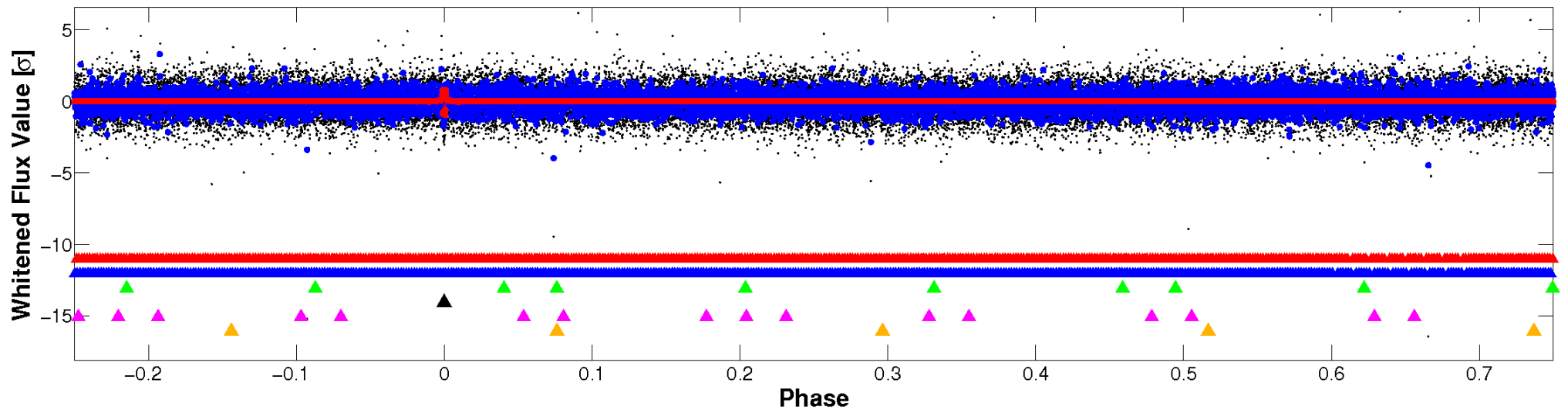


Non-Whitened Vs. Whitened Light Curve

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

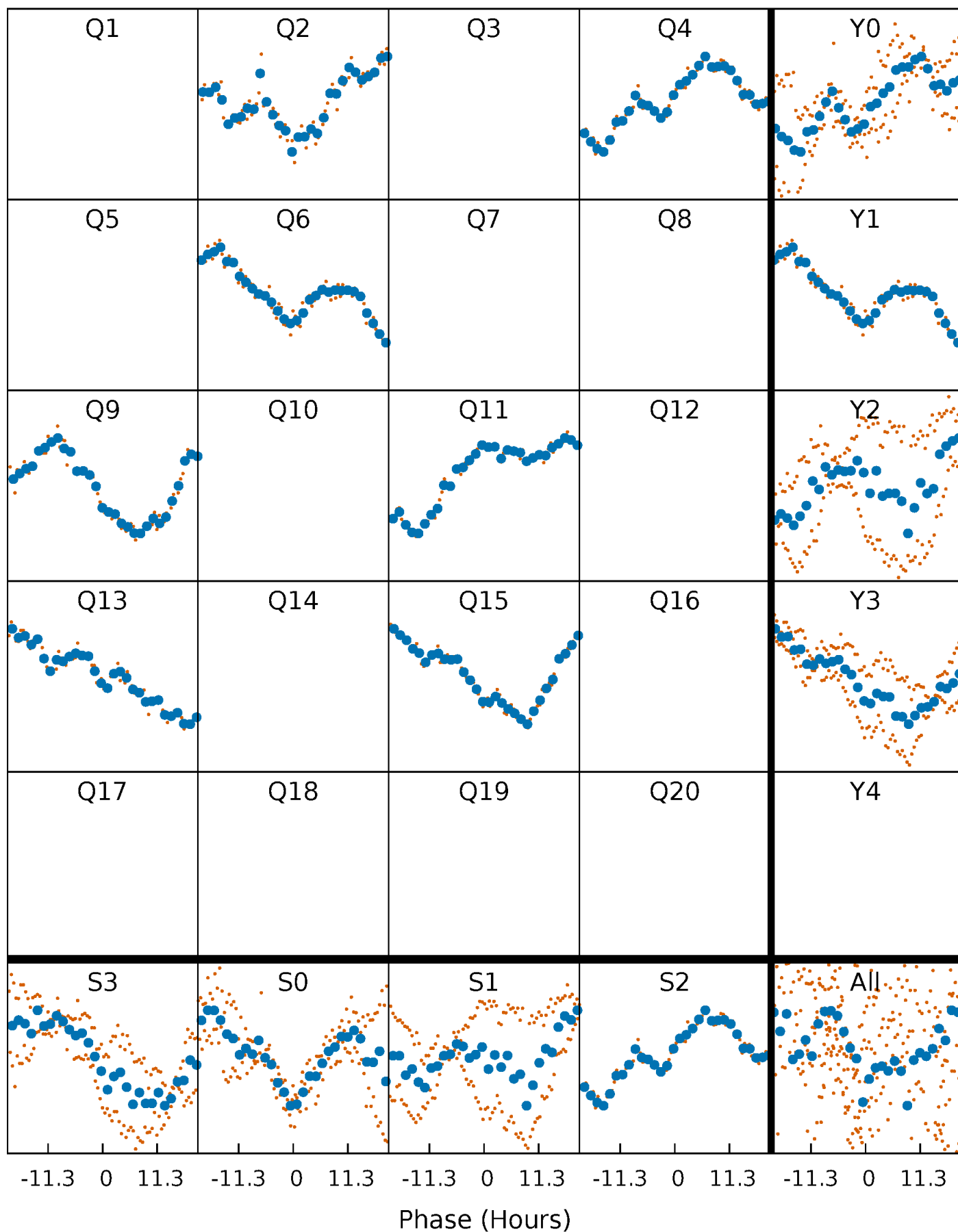


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



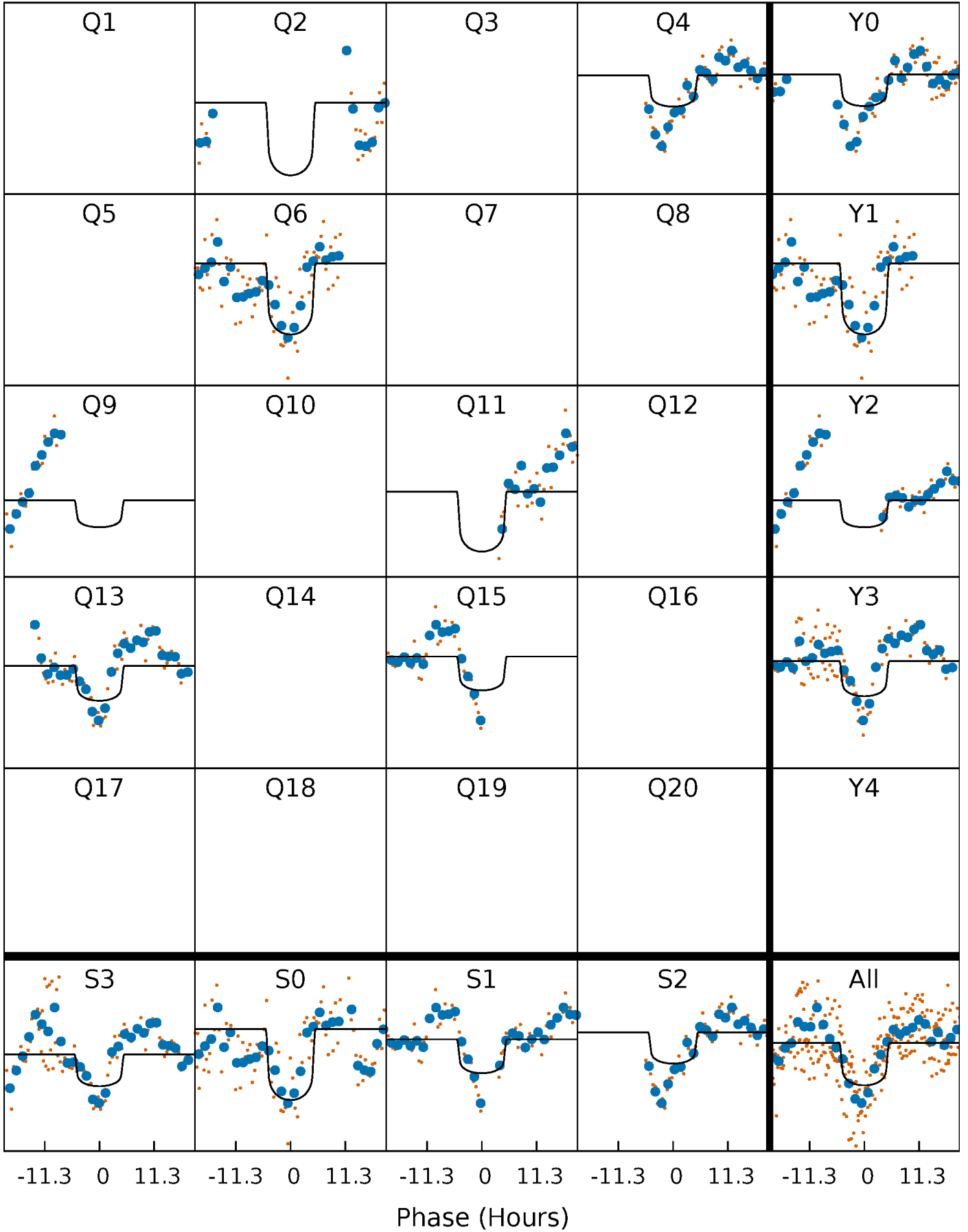
PDC Quarter-Phased Transit Curves

TCE 007668911-04 $P=211.442658$ Days $T_0=195.134093$ (BKJD)



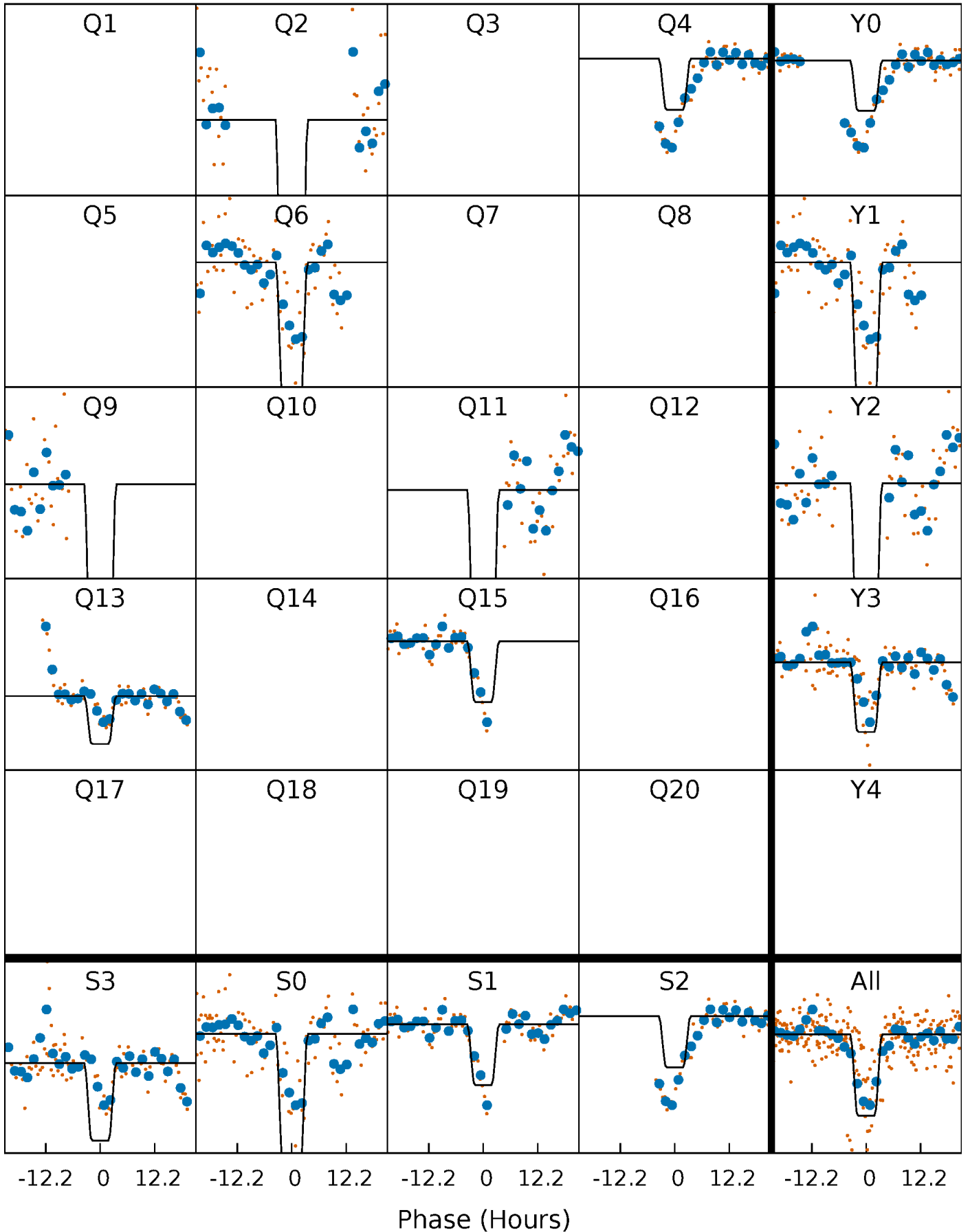
DV Quarter-Phased Transit Curves

TCE 007668911-04 P=211.442658 Days $T_0=195.134093$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

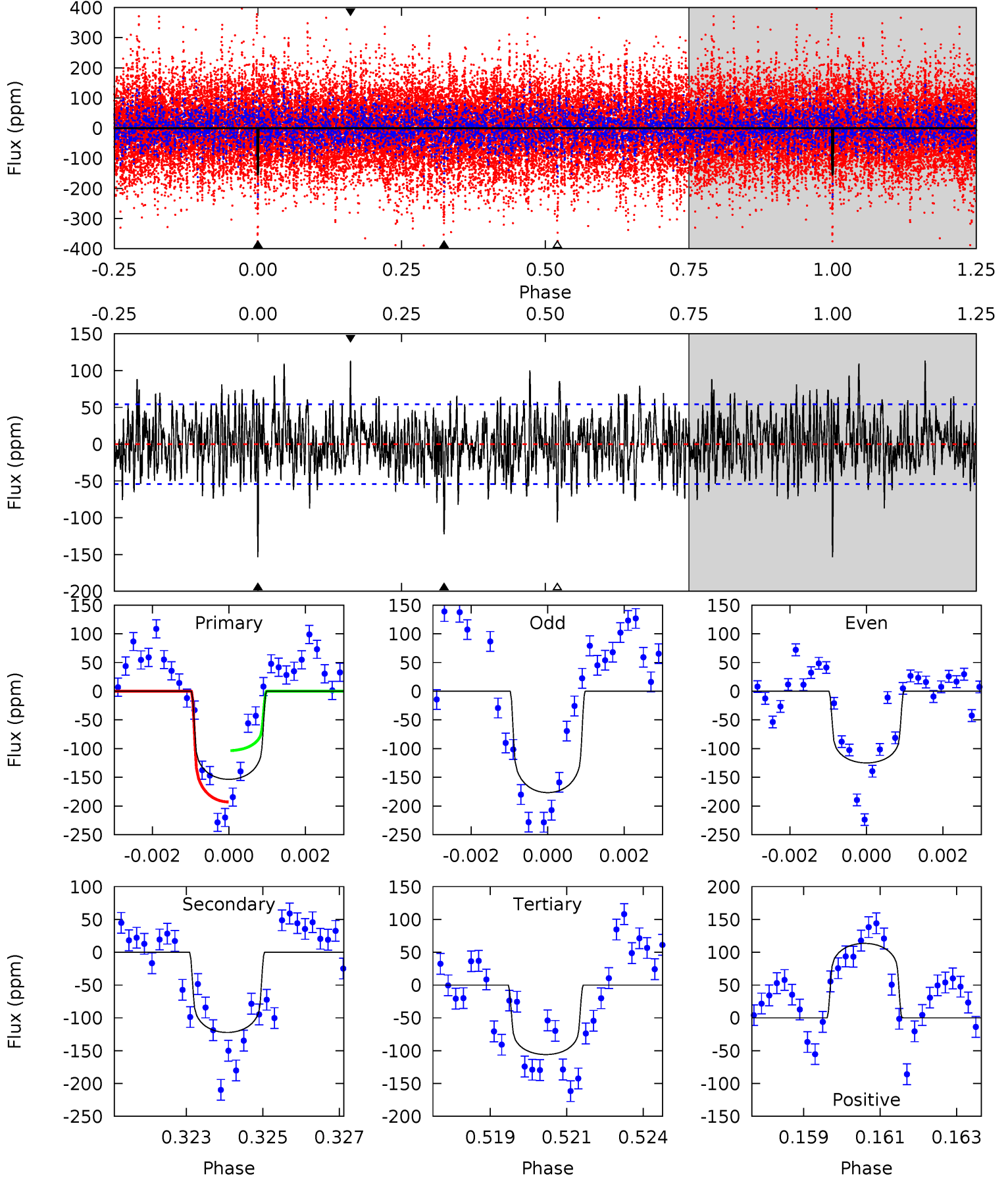
TCE 007668911-04 P=211.446479 Days $T_0=195.068502$ (BKJD)



DV Model-Shift Uniqueness Test

007668911-04, P = 211.442658 Days, E = 195.134093 Days

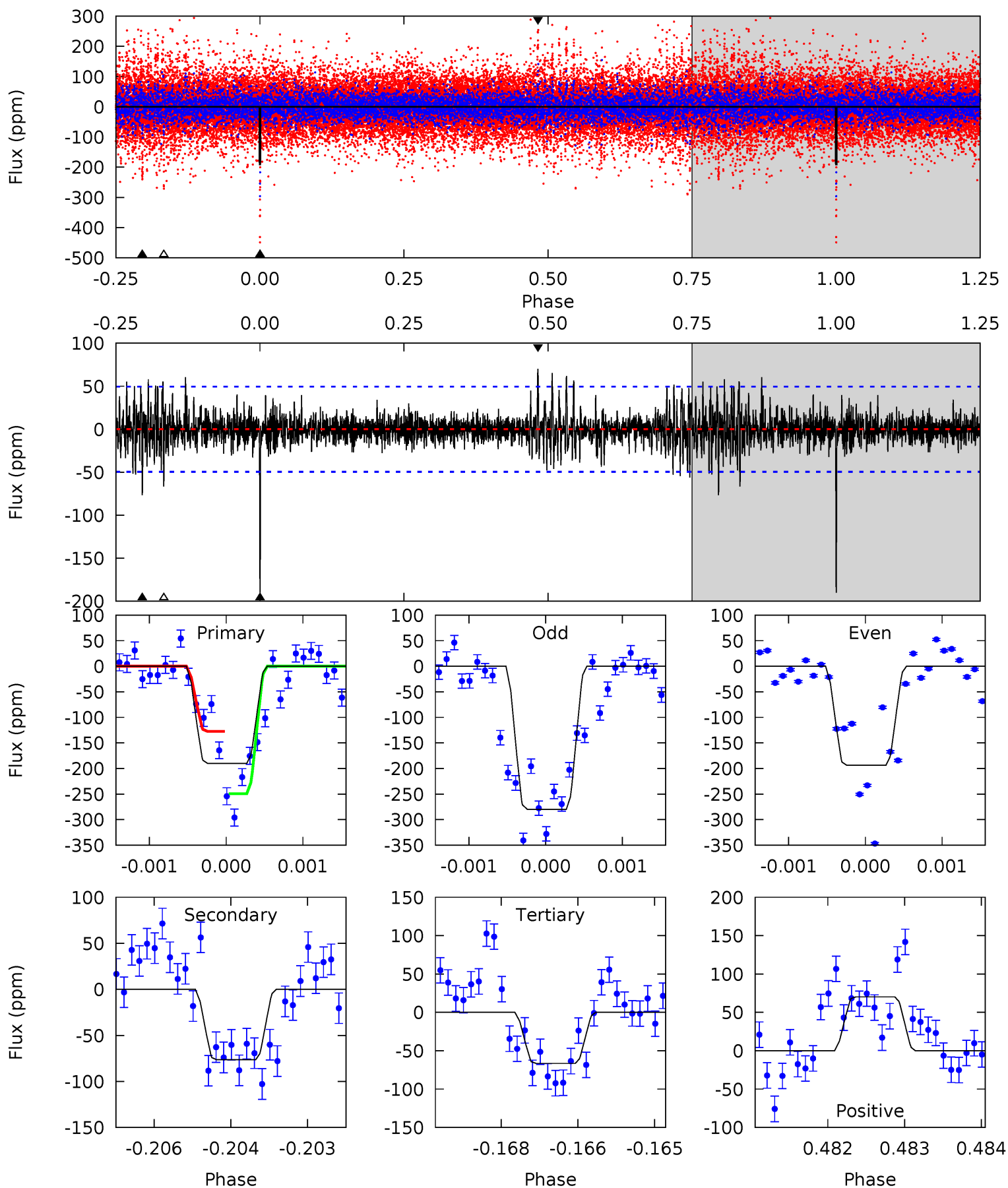
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.1	12.0	10.4	11.1	5.32	3.08	2.97	4.67	3.93	1.60	0.85	2.53	1.17	0.42	4.38



Alt Model-Shift Uniqueness Test

007668911-04, P = 211.446479 Days, E = 195.068502 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.7	8.34	7.25	7.65	5.40	3.20	1.54	13.5	13.1	1.09	0.69	4.94	1.18	0.27	6.62



Stellar Parameters For KIC 007668911

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6742^{+189}_{-284}	$4.217^{+0.132}_{-0.182}$	$-0.180^{+0.250}_{-0.300}$	$1.458^{+0.447}_{-0.298}$	$1.288^{+0.182}_{-0.202}$	$0.585^{+0.435}_{-0.308}$
	+3%/-4%	+3%/-4%	+139%/-167%	+31%/-20%	+14%/-16%	+74%/-53%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 007668911-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-122 ± 10	$2.03^{+0.57}_{-0.49}$	579^{+44}_{-35}	6266^{+920}_{-599}	9337^{+6870}_{-3683}
Alt.	-76 ± 9	$2.81^{+0.56}_{-0.54}$	578^{+46}_{-39}	4842^{+400}_{-316}	3001^{+1501}_{-899}

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 $A_{obs} \gg 1.0$

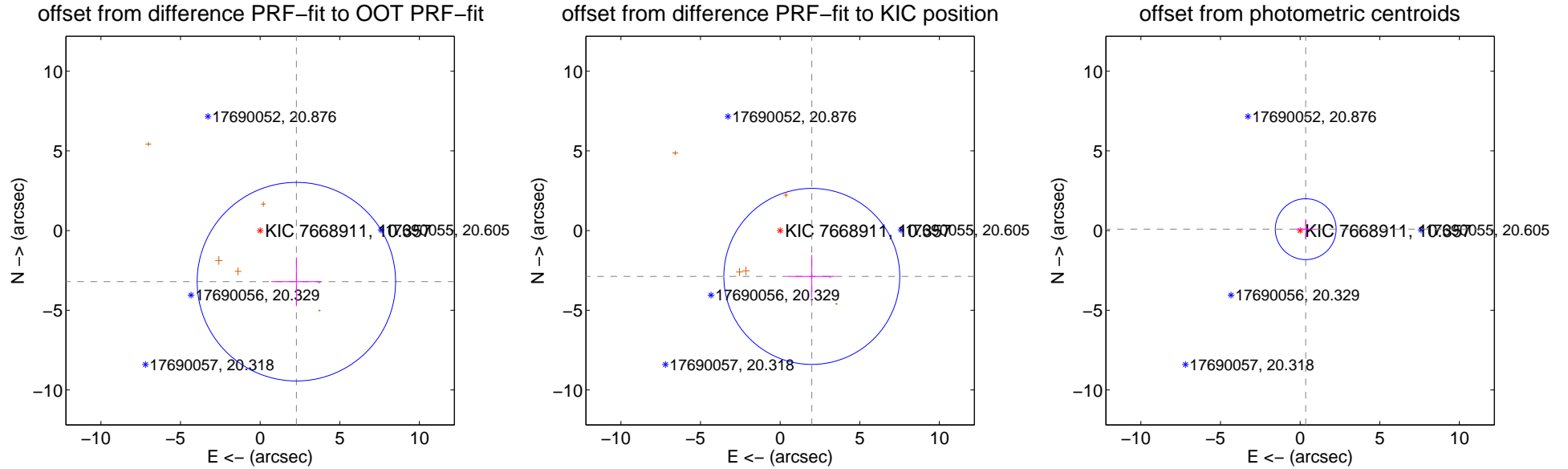
DV Centroid Data

Supplemental centroid analysis for 007668911-04. **Kepler magnitude: 10.36.** Transit SNR 7.04

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.59 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.934 ± 2.077	1.89	-2.276 ± 1.583	-3.208 ± 1.533
PRF-fit source offset from KIC position	3.498 ± 1.841	1.90	-1.989 ± 1.459	-2.877 ± 1.347
photometric centroid source offset	0.36 ± 0.64	0.57	-0.35 ± 0.64	0.09 ± 0.62



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

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

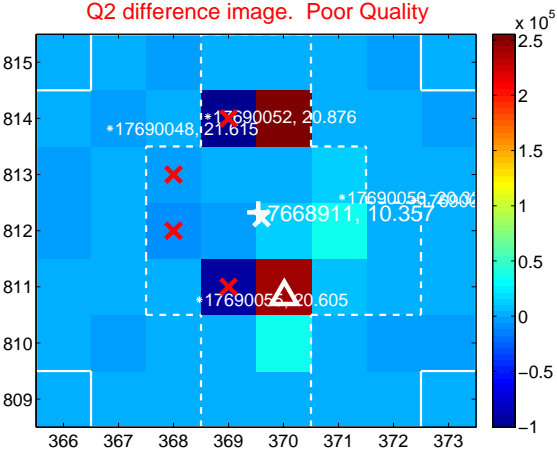
Q1 no difference image



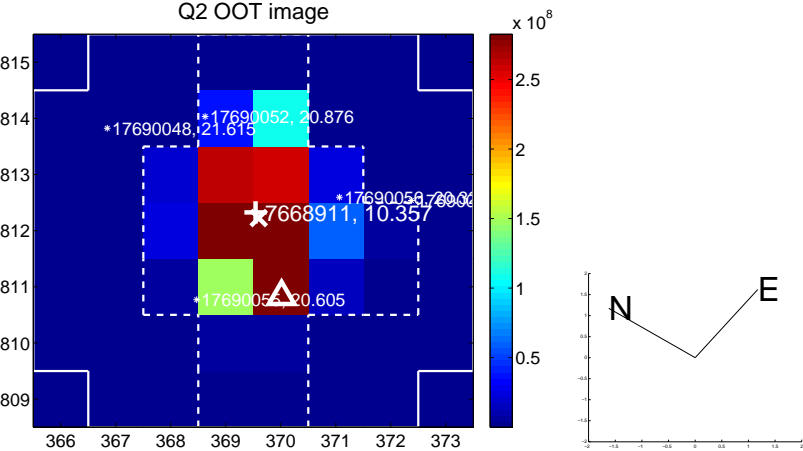
Q1 no OOT image



Q2 difference image. Poor Quality



Q2 OOT image



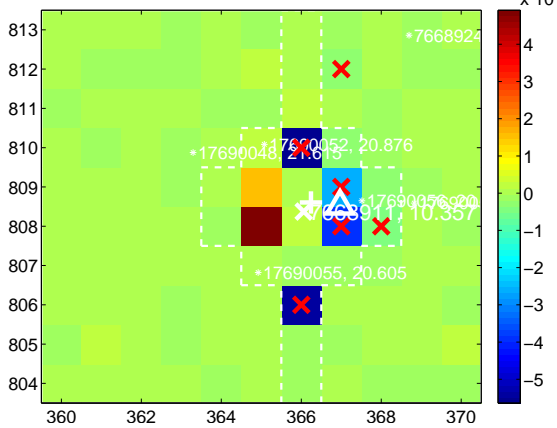
Q3 no difference image



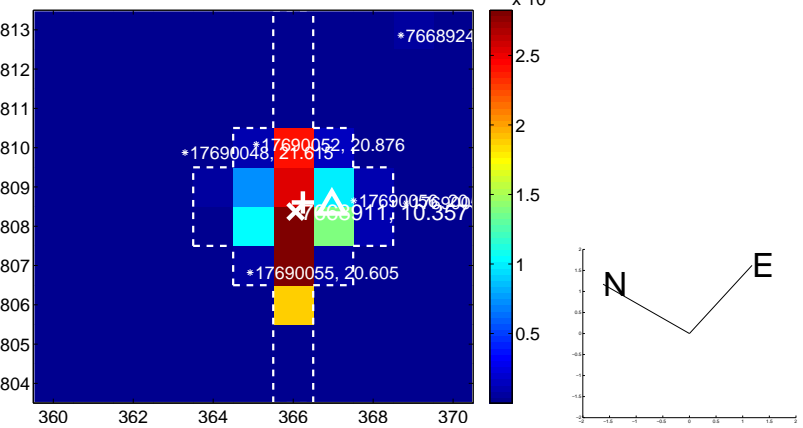
Q3 no OOT image



Q4 difference image. Poor Quality



Q4 OOT image



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

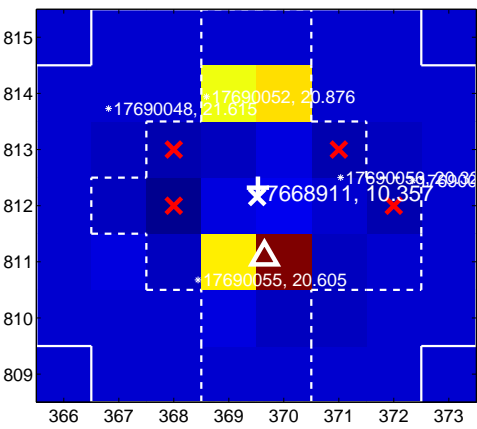
Q5 no difference image



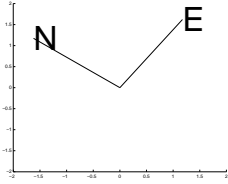
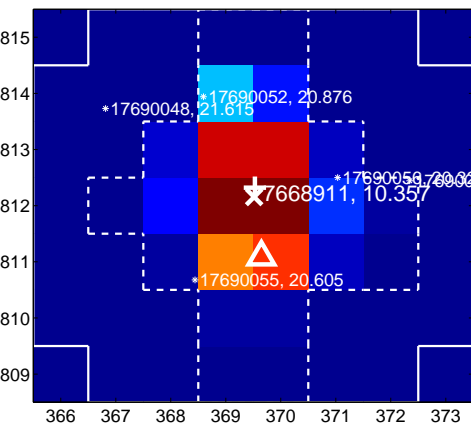
Q5 no OOT image



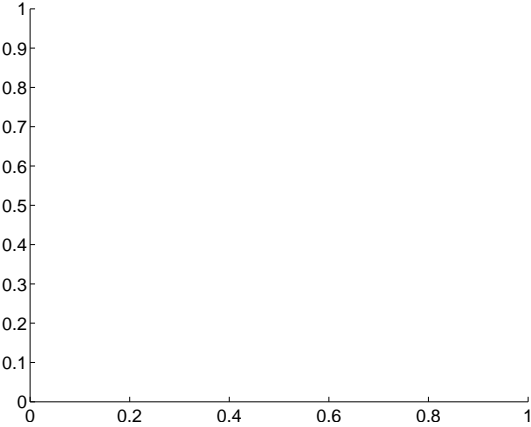
Q6 difference image



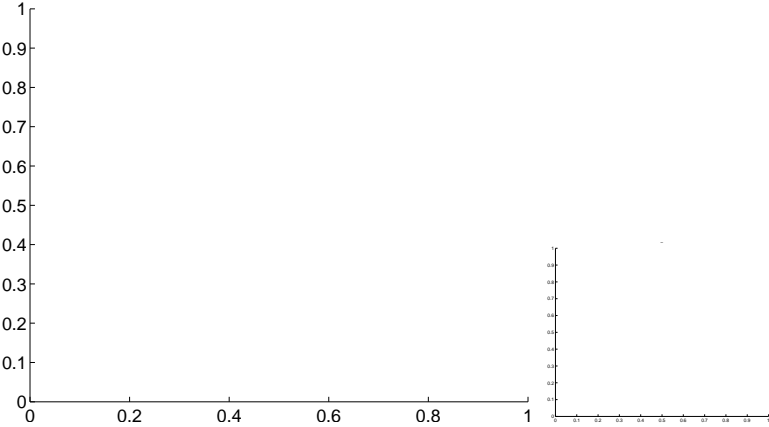
Q6 OOT image



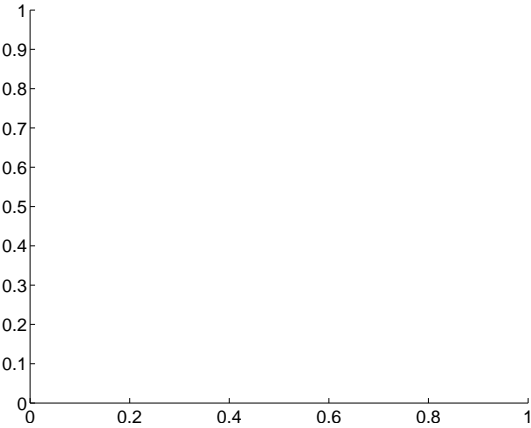
Q7 no difference image



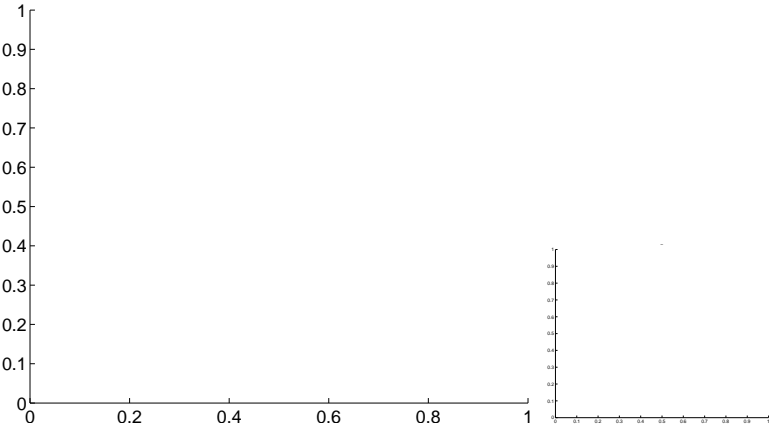
Q7 no OOT image



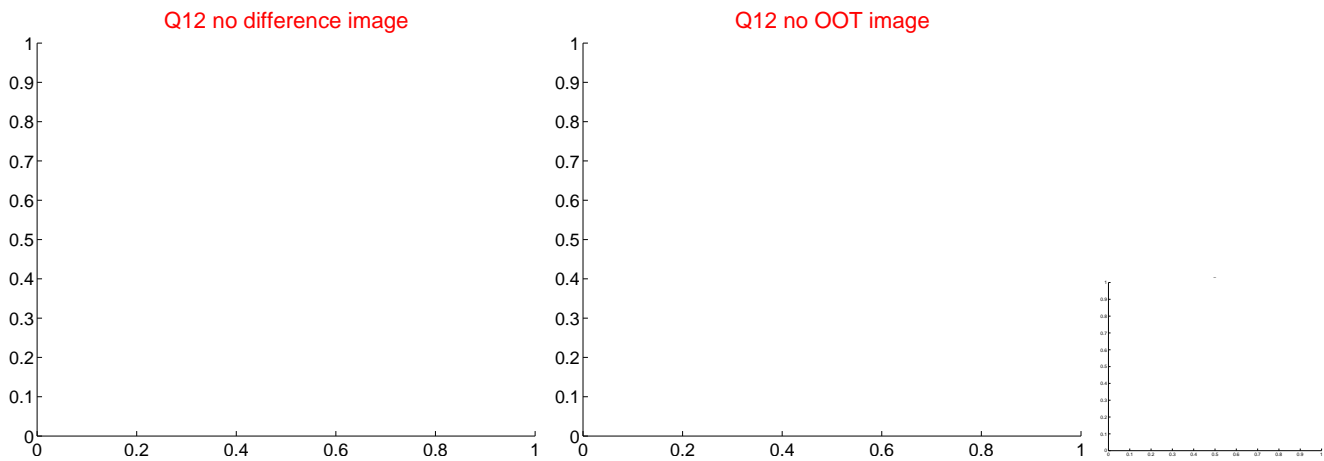
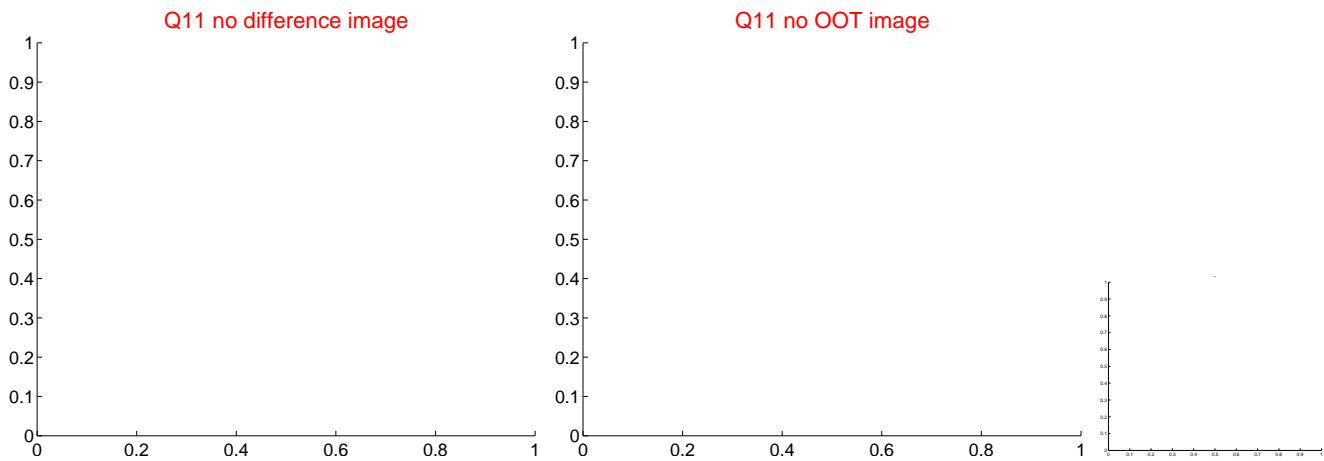
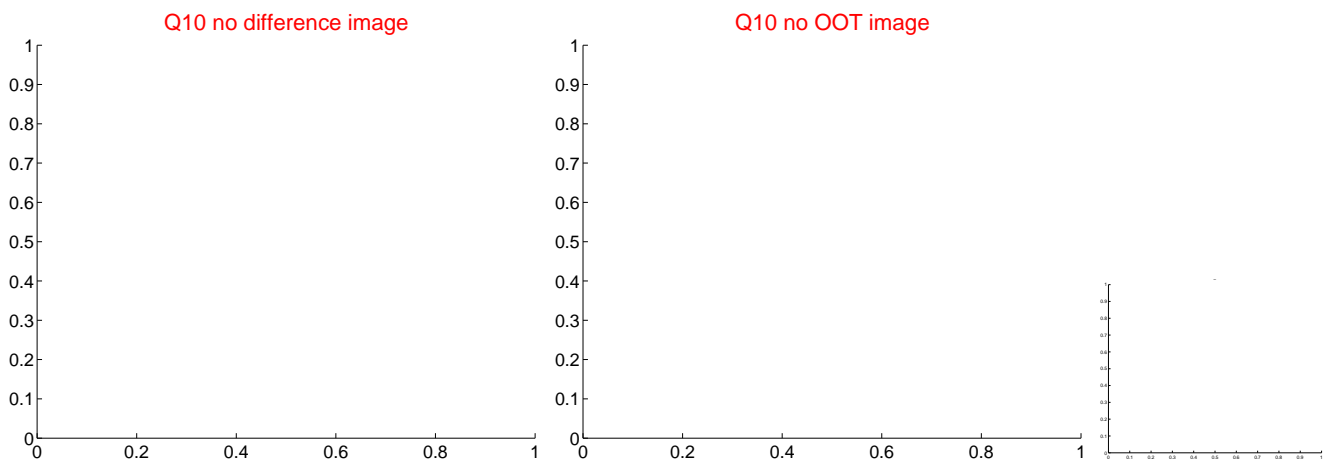
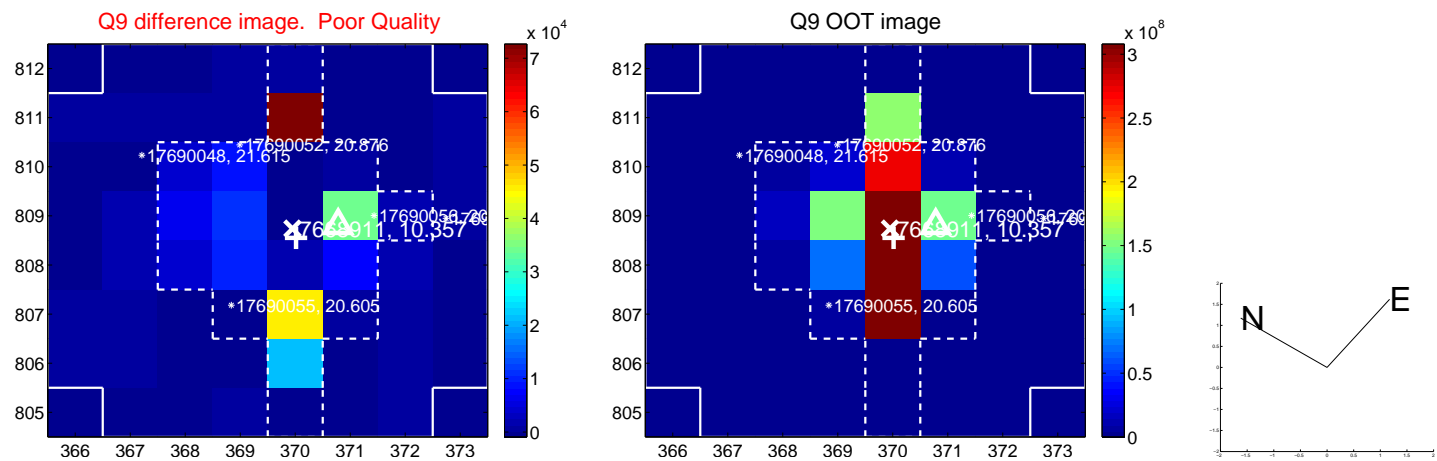
Q8 no difference image



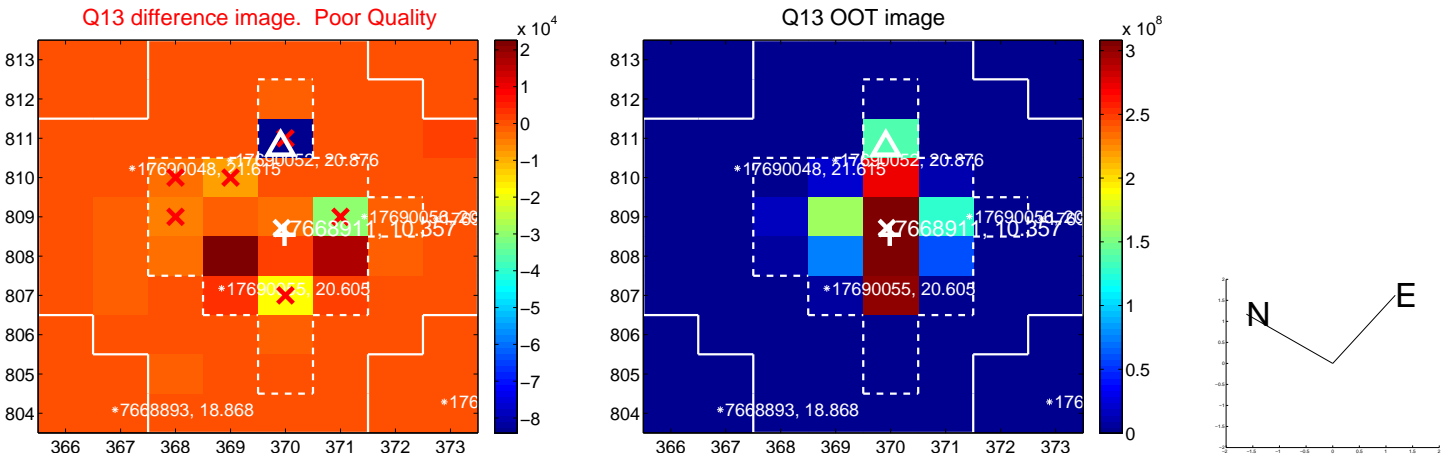
Q8 no OOT image



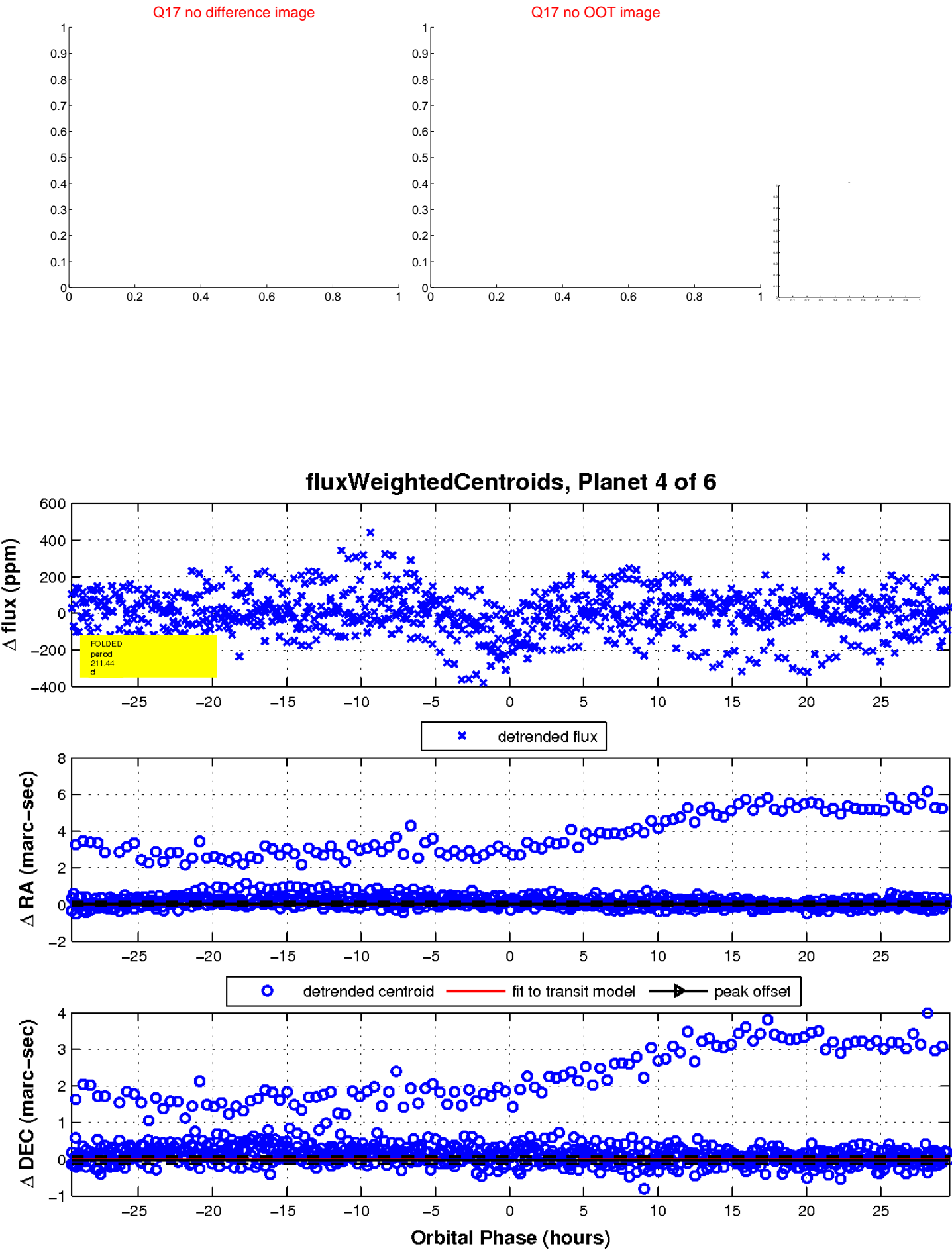
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



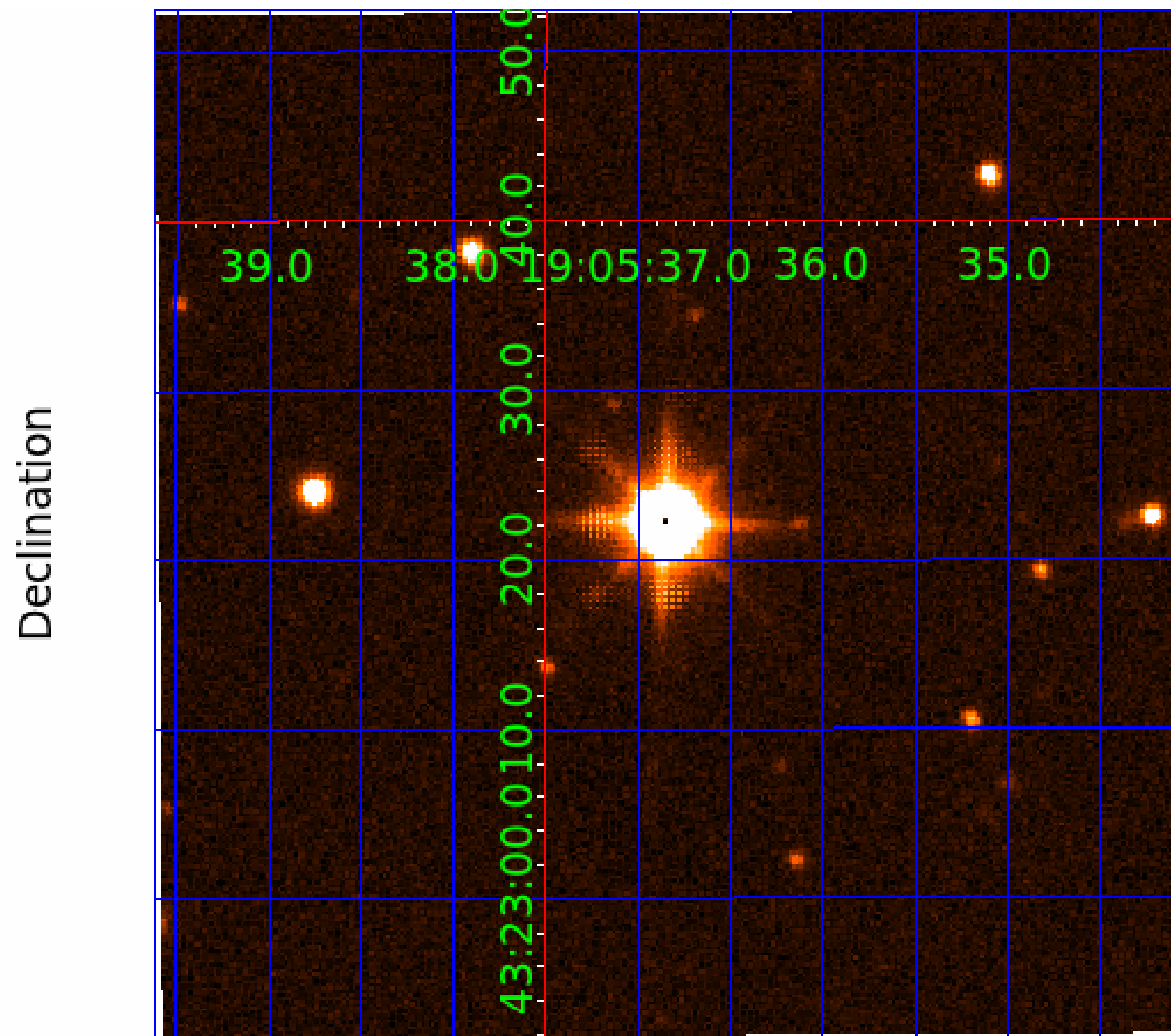
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 007668911

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})
007668911-01	OBS	No	2.633491	131.687535	20.3	6.785	10.1	8.6	1.46	6742	0.81	2397.98
007668911-02	OBS	No	2.633732	132.126409	26.4	4.439	9.4	11.2	1.46	6742	0.88	2397.68
007668911-04	OBS	No	211.442658	195.134093	154.6	9.879	8.2	7.0	1.46	6742	2.00	6.92
007668911-05	OBS	No	89.803845	154.233544	116.3	3.838	7.8	8.1	1.46	6742	1.88	21.68
007668911-06	OBS	No	258.003167	376.148277	137.0	11.434	7.6	6.5	1.46	6742	1.72	5.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007668911-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007668911-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
007668911-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—CENT_SATURATED
007668911-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
007668911-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

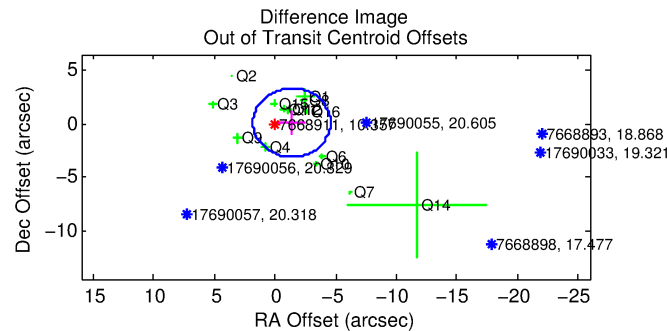
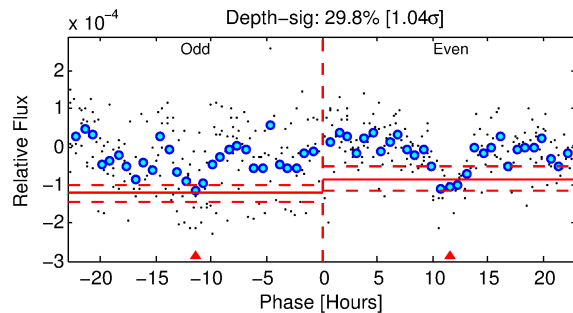
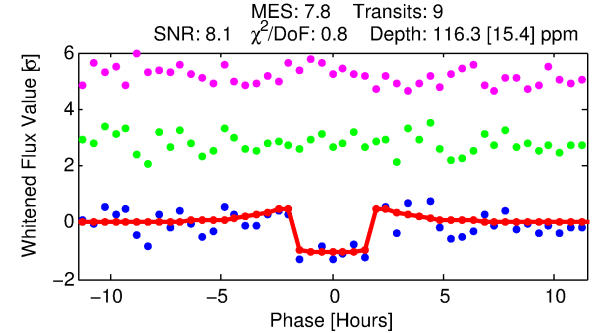
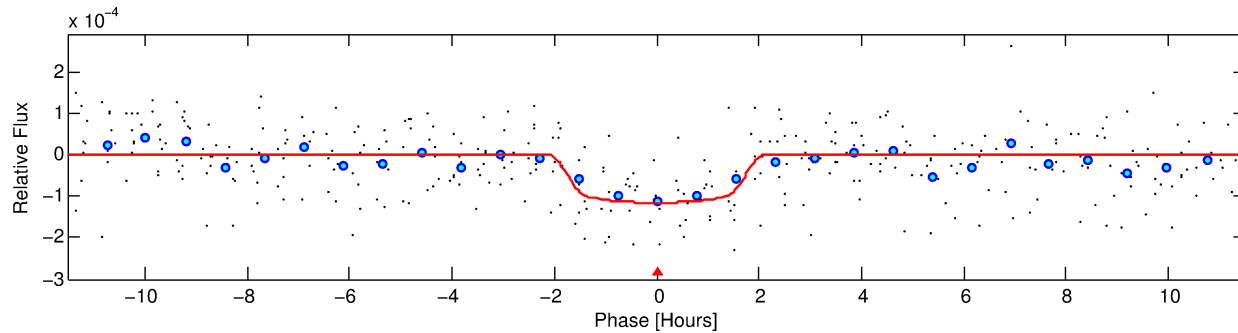
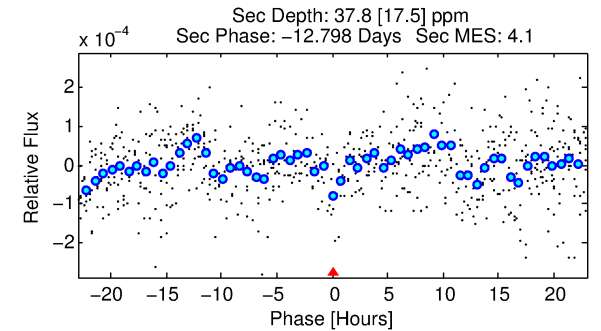
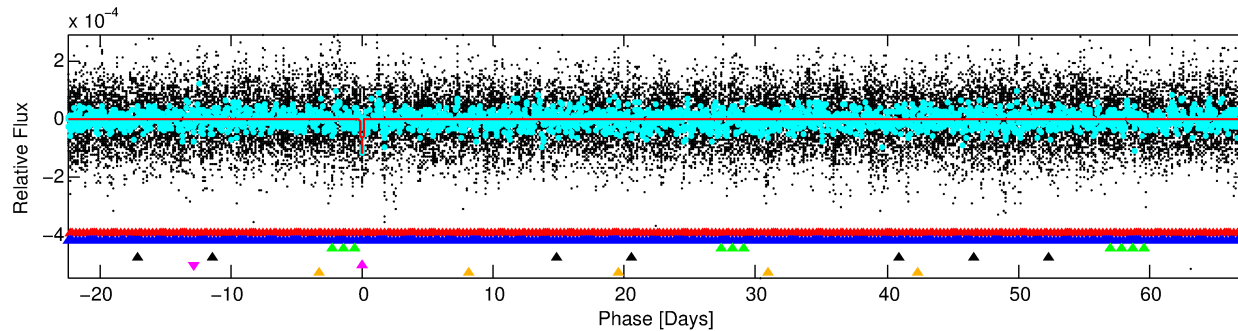
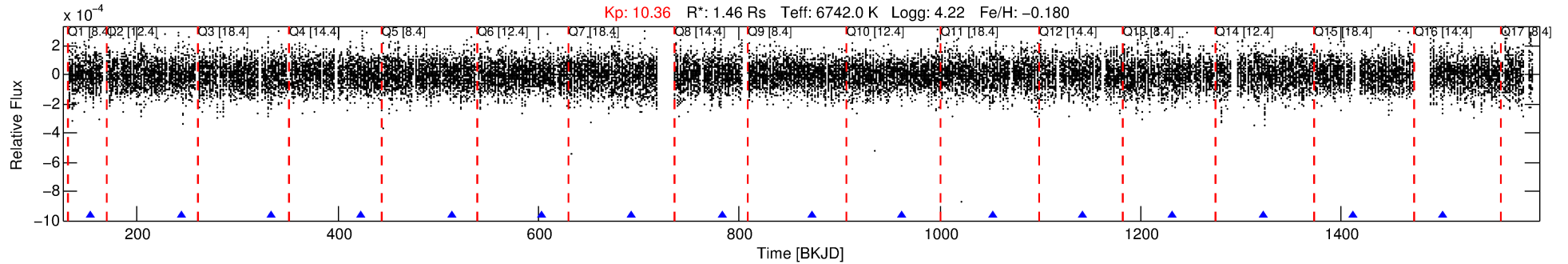
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007668911-05

No Significant Match Found

DV One-Page Summary

KIC: 7668911 Candidate: 5 of 6 Period: 89.804 d



DV Fit Results:

Period = 89.80385 [0.00087] d
Epoch = 154.2335 [0.0069] BKJD
Rp/R* = 0.0118 [0.0021]
a/R* = 72.45 [65.10]
b = 0.93 [0.14]
Seff = 21.69 [8.35]
Teff = 550 [53] K
Rp = 1.88 [0.67] Re
a = 0.4260 [0.1055] AU
Ag = 1071.18 [726.61] [1.47σ]
Teffp = 4867 [739] K [5.83σ]

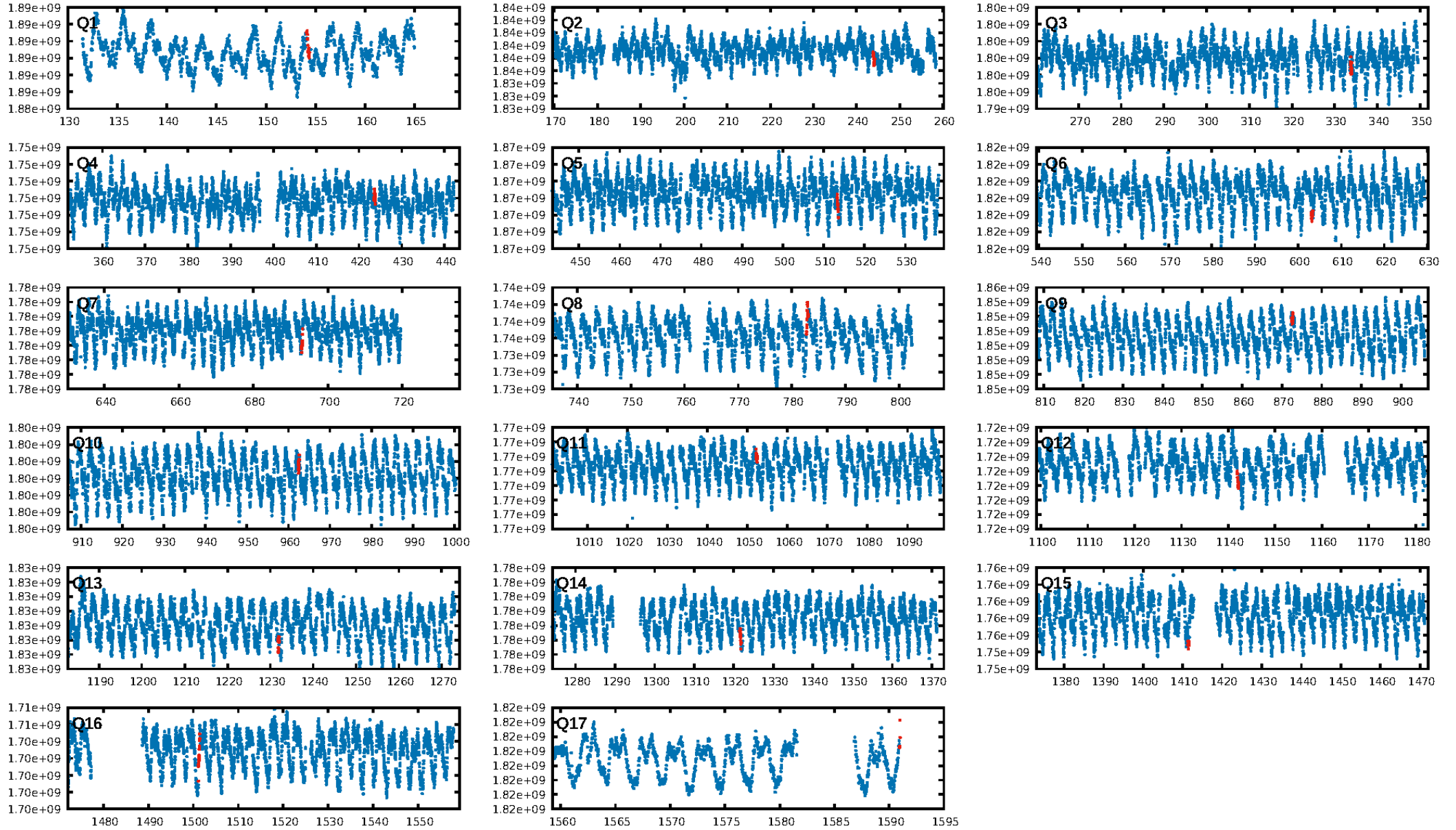
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [356.52σ]
LongPeriod-sig: 100.0% [144.27σ]
ModelChiSquare2-sig: 33.3%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.02e-09
RollingBand-fgt: 1.00 [8/8]
GhostDiagnostic-chr: 1.114
Centroid-sig: 53.7%
Centroid-so: 0.591 arcsec [0.92σ]
OotOffset-rm: 1.377 arcsec [1.29σ]
KicOffset-rm: 2.557 arcsec [3.66σ]
OotOffset-st: 4/4/4/2 [14]
KicOffset-st: 4/4/4/2 [14]
DiffImageQuality-fgm: 0.21 [3/14]
DiffImageOverlap-fno: 0.40 [6/15]

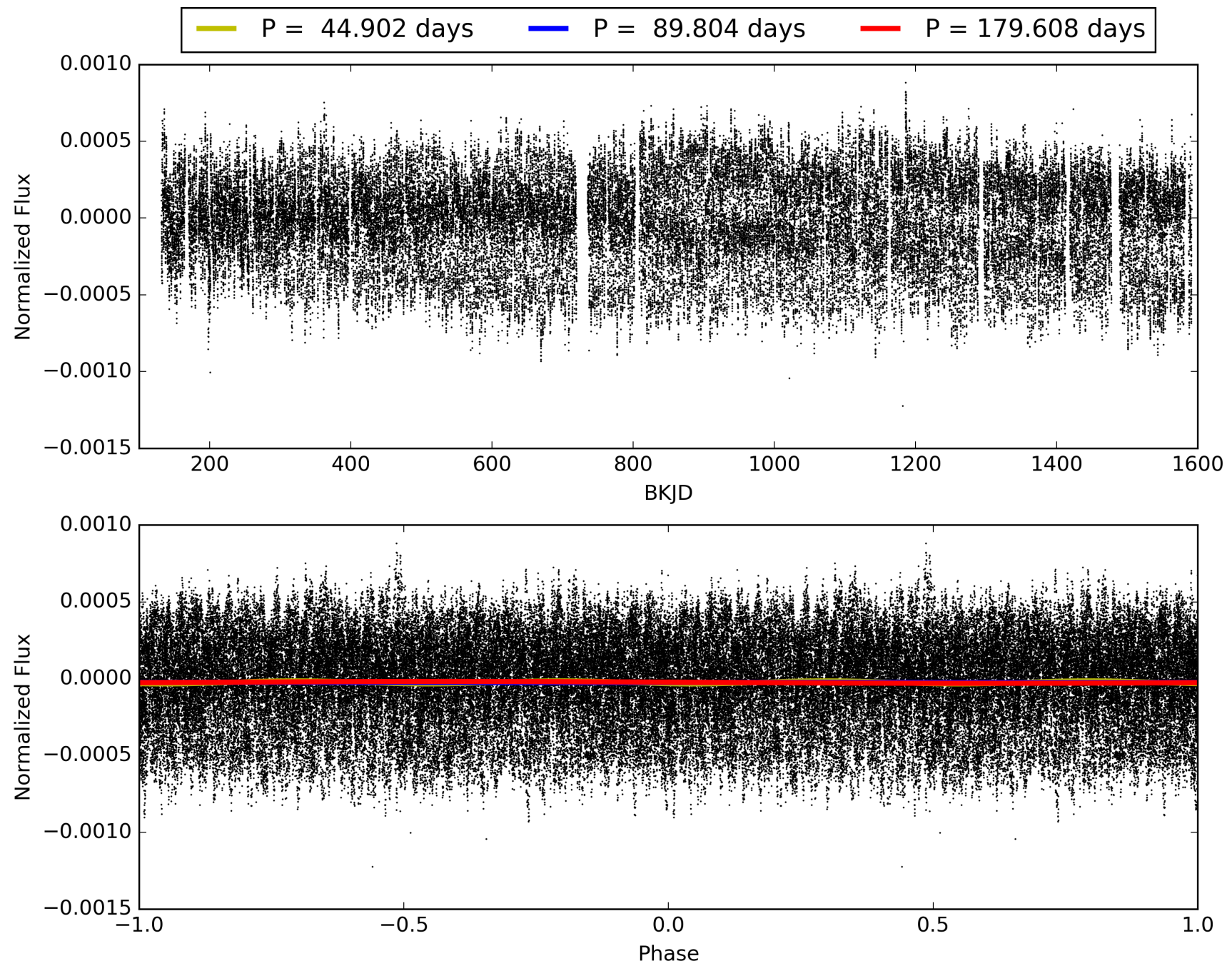
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 03:20:37 Z

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

TCE 007668911-05, PDC Light Curves

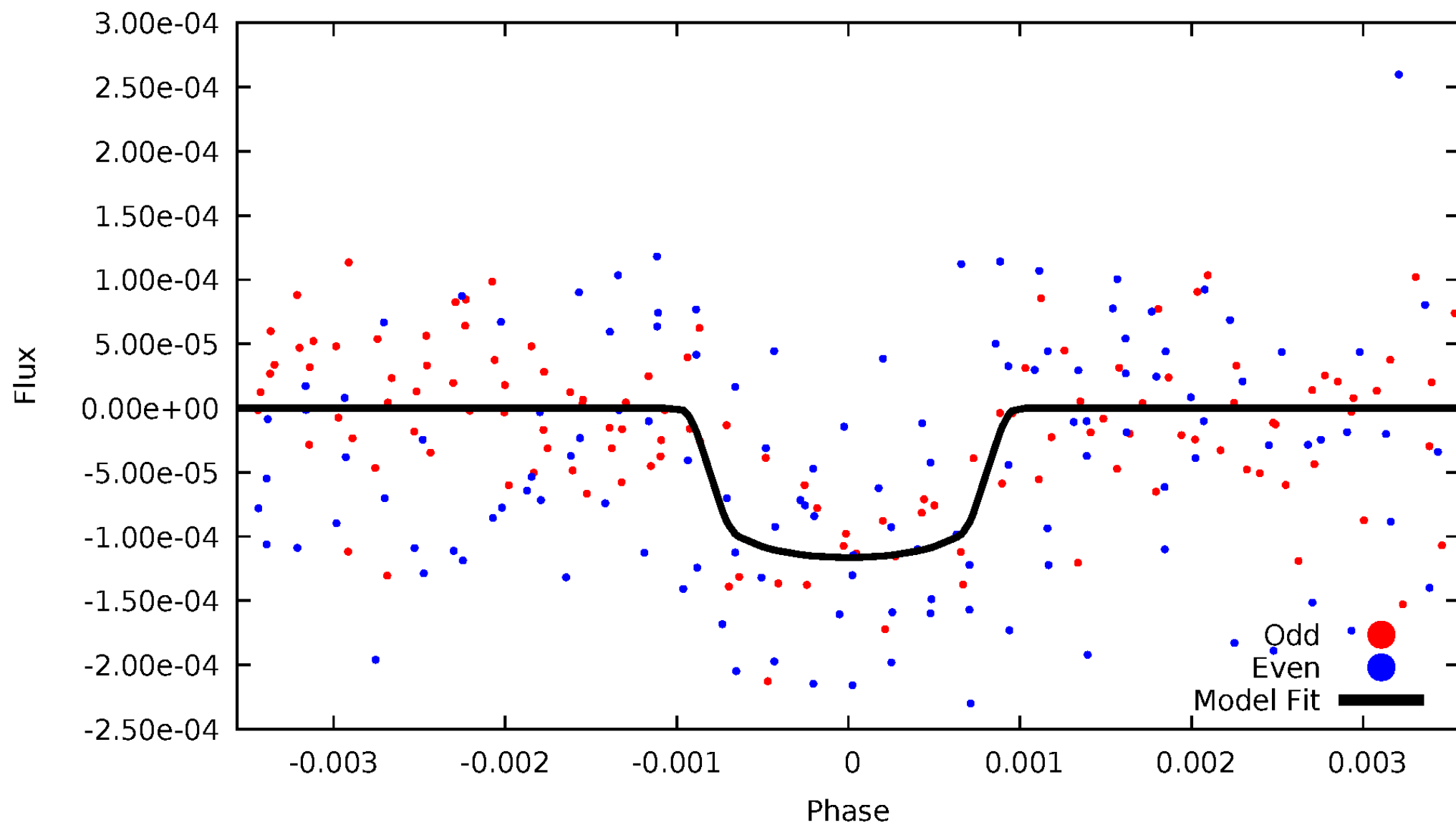


TCE 007668911-05



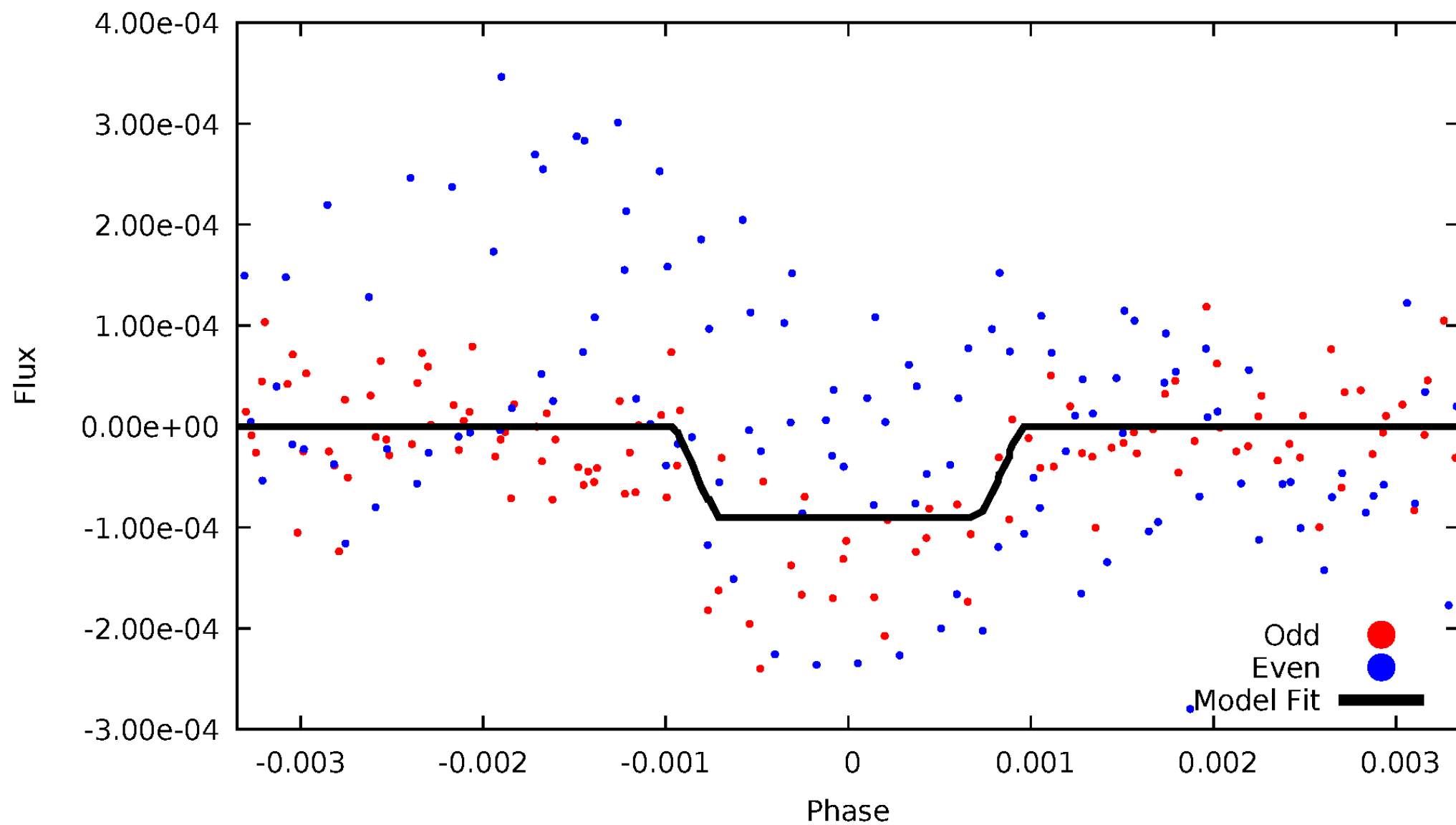
DV Odd/Even

TCE 007668911-05



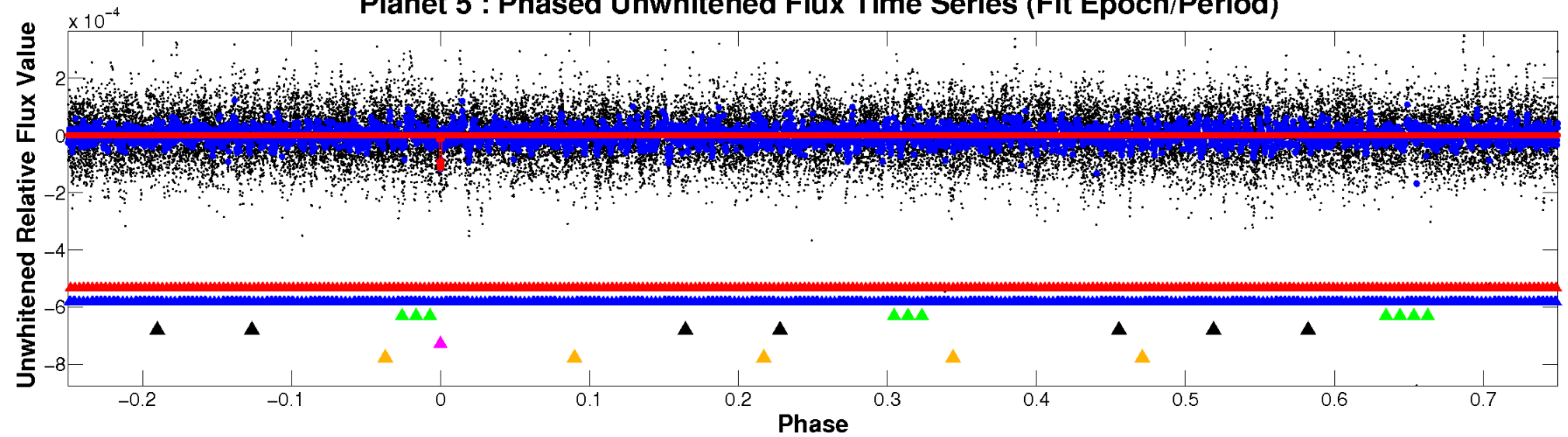
ALT Odd/Even

TCE 007668911-05

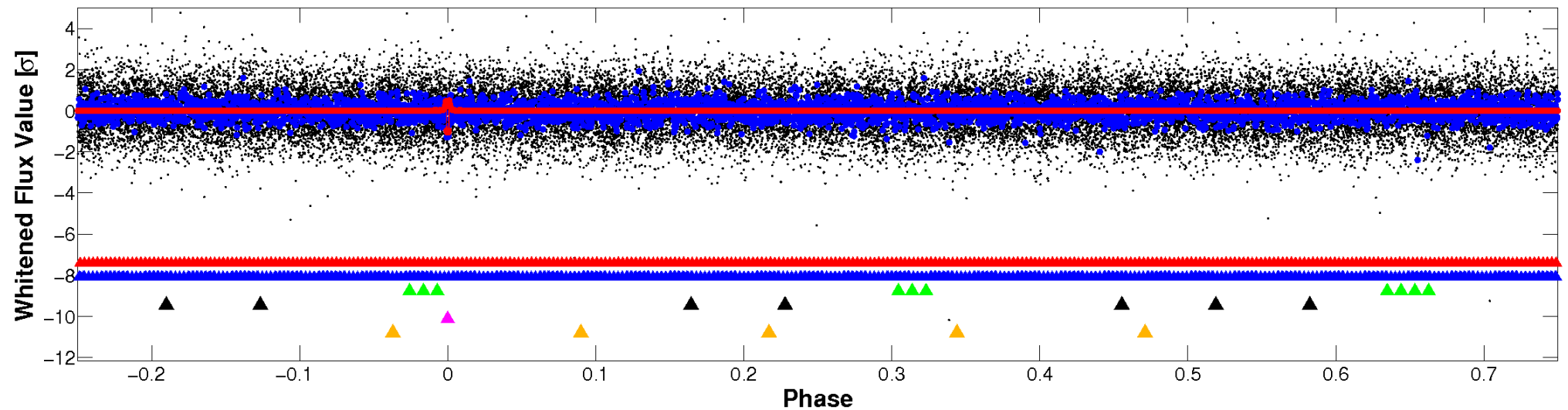


Non-Whitened Vs. Whitened Light Curve

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

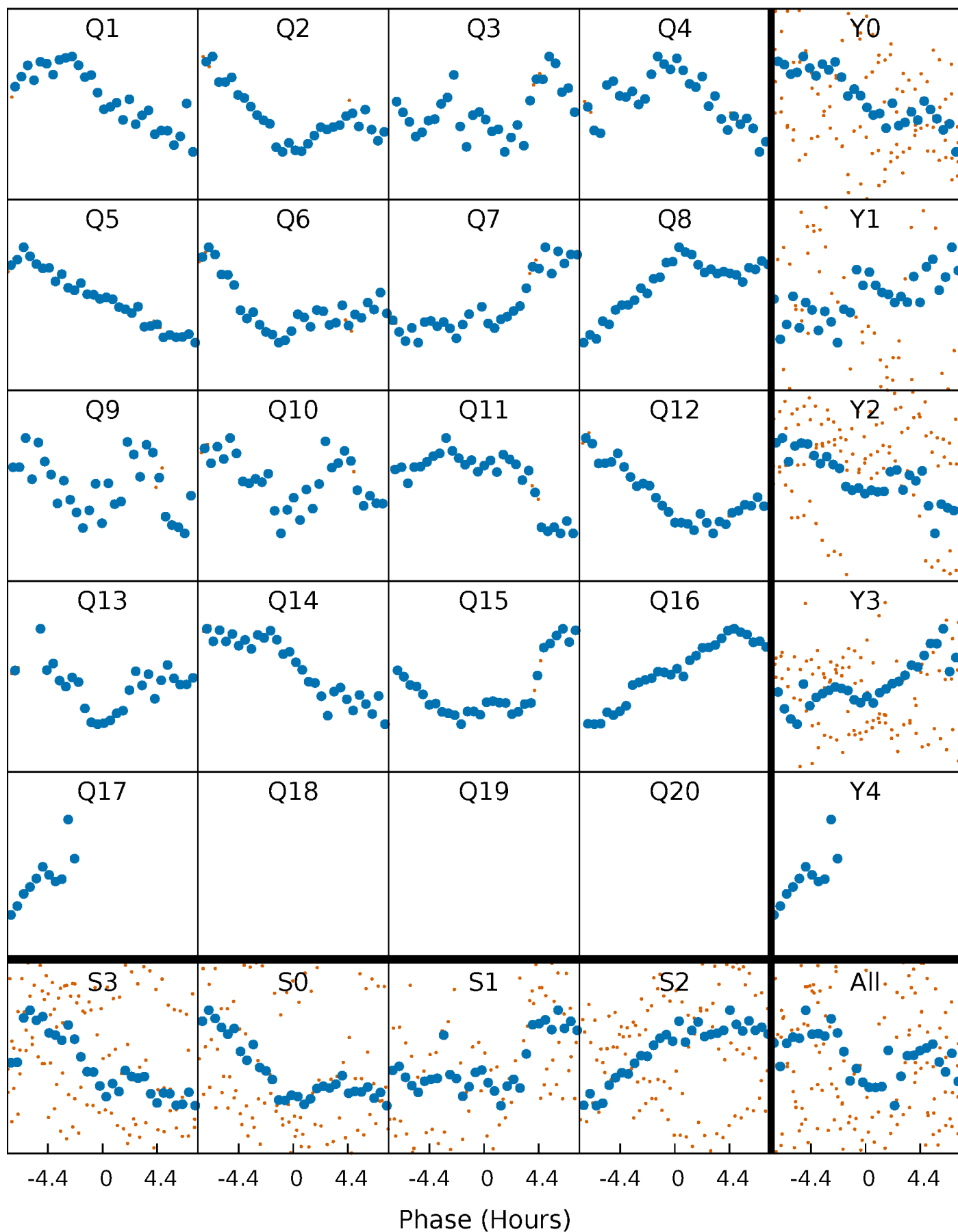


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



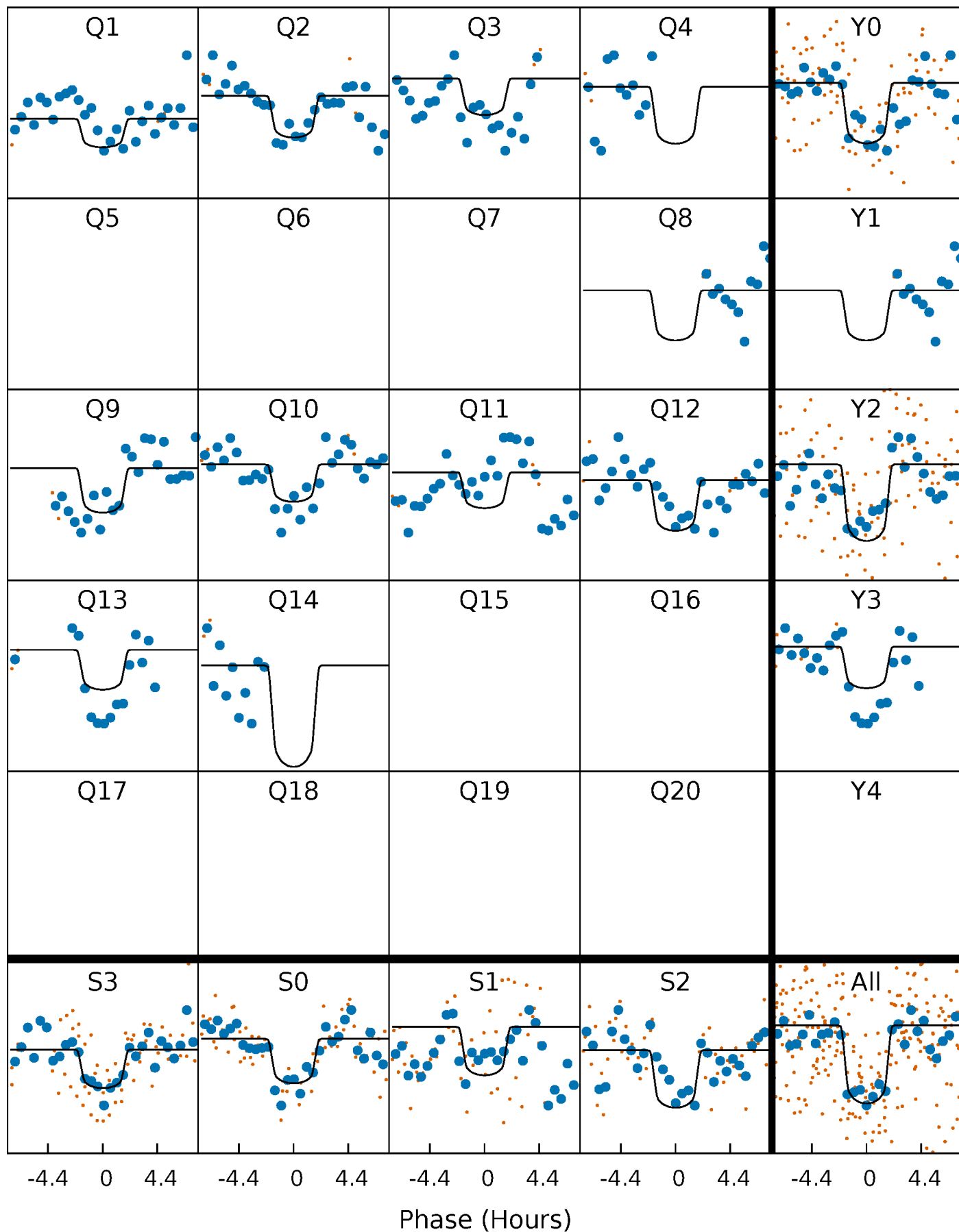
PDC Quarter-Phased Transit Curves

TCE 007668911-05 P= 89.803845 Days $T_0=154.233544$ (BKJD)



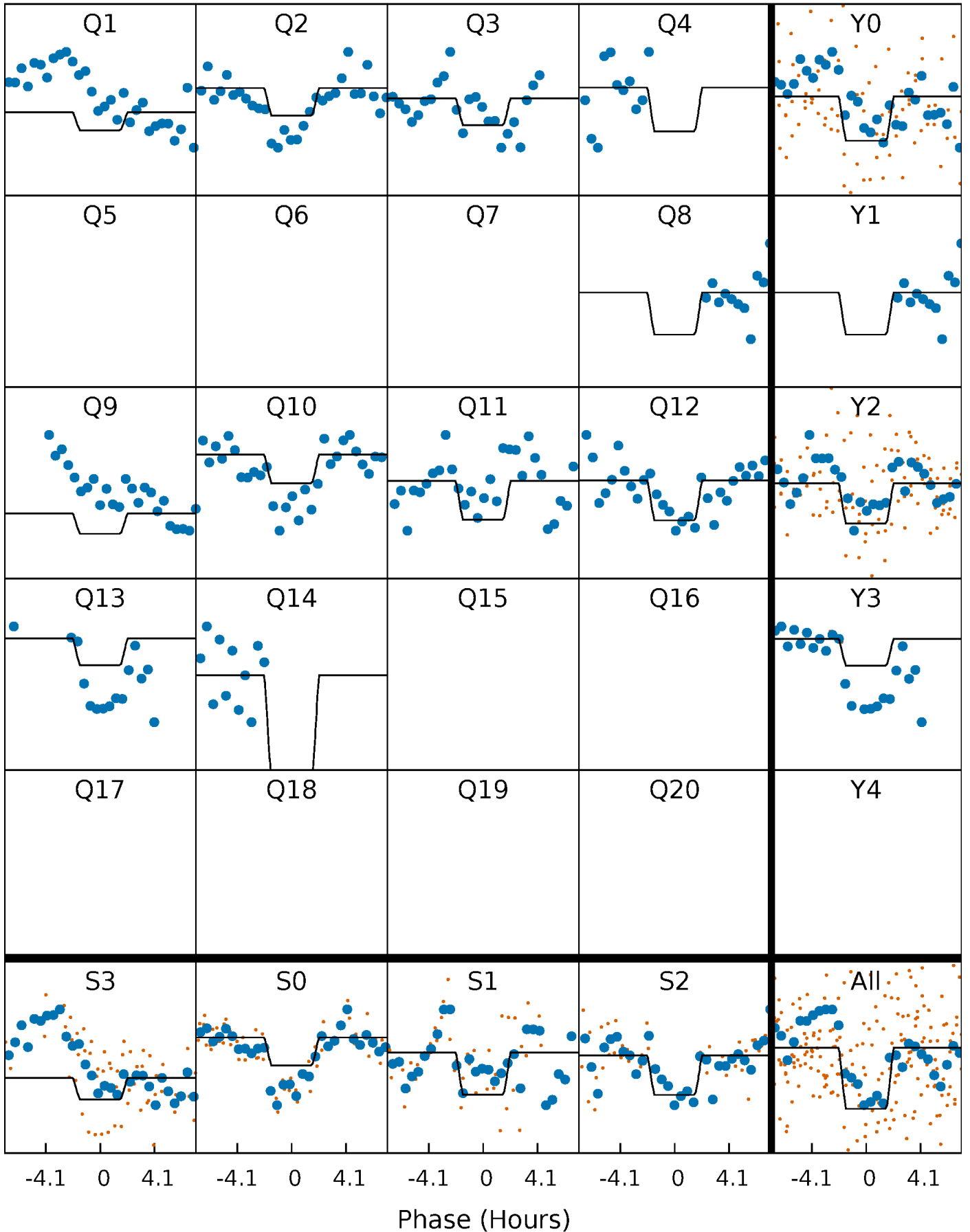
DV Quarter-Phased Transit Curves

TCE 007668911-05 P= 89.803845 Days $T_0=154.233544$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

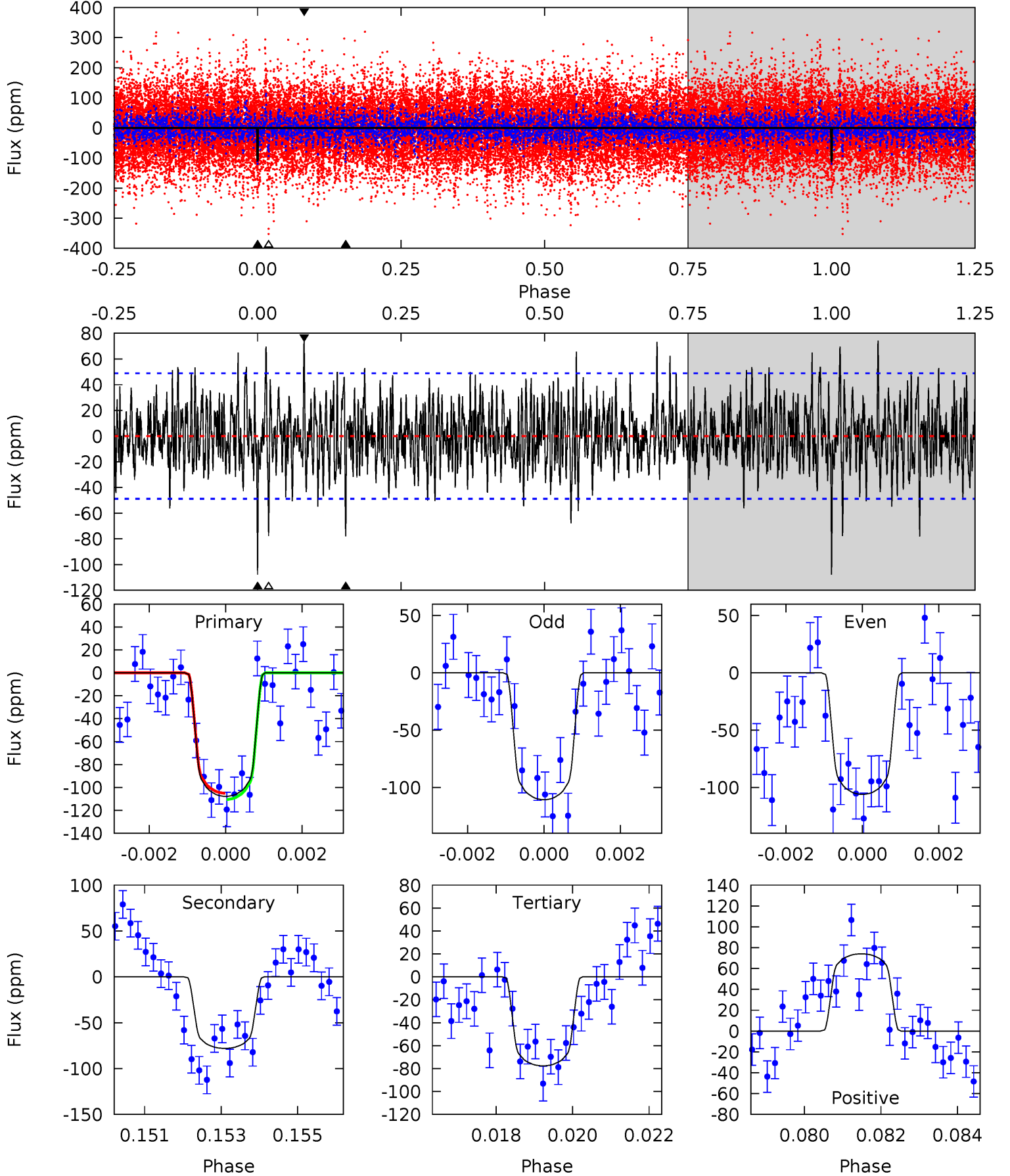
TCE 007668911-05 P= 89.802525 Days $T_0=154.246726$ (BKJD)



DV Model-Shift Uniqueness Test

007668911-05, P = 89.803845 Days, E = 64.429699 Days

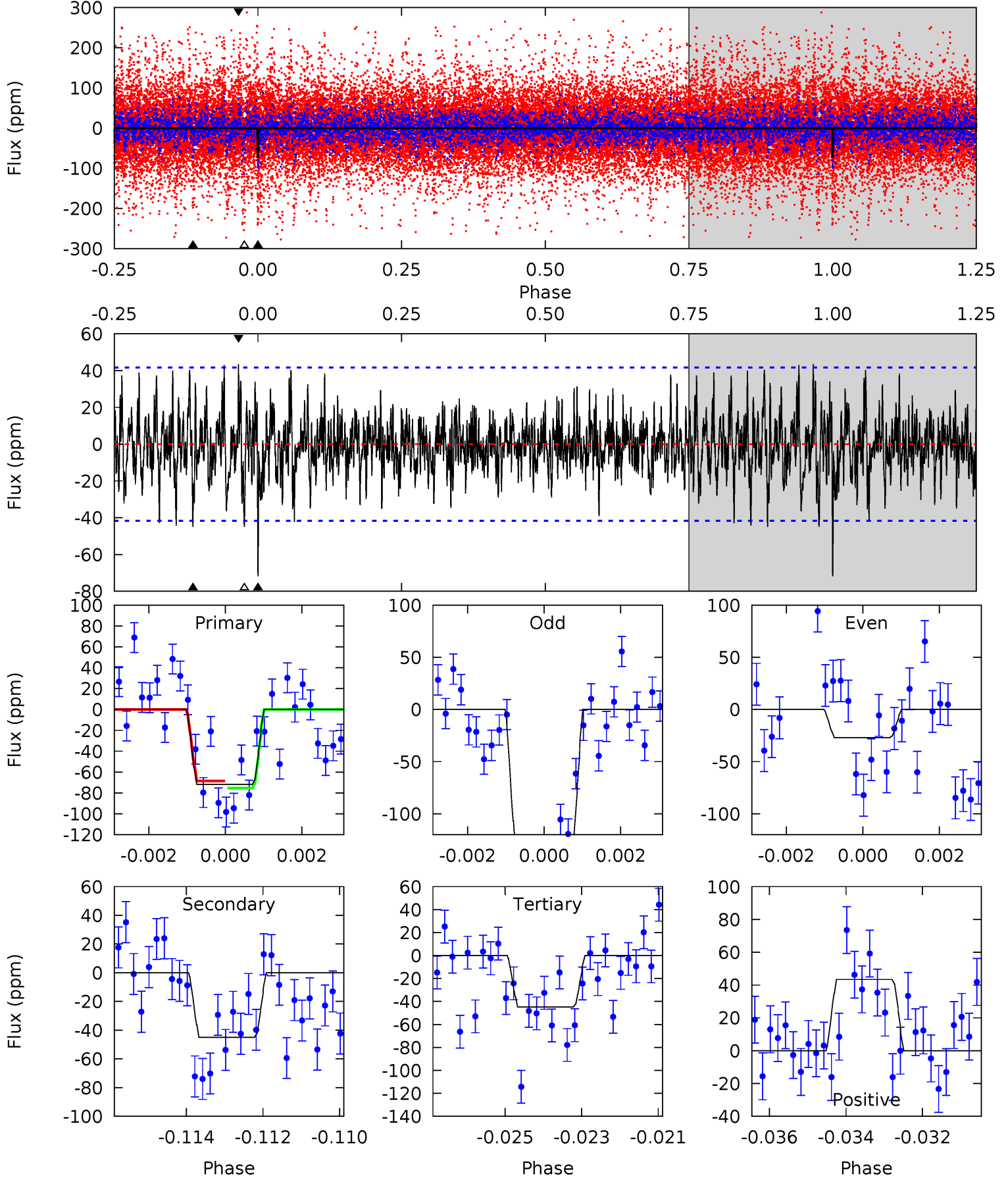
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.8	8.51	8.47	8.08	5.33	3.09	2.25	3.29	3.68	0.04	0.43	0.25	0.95	0.41	0.30



Alt Model-Shift Uniqueness Test

007668911-05, P = 89.802525 Days, E = 64.444201 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.19	5.76	5.75	5.56	5.34	3.11	1.62	3.44	3.63	0.01	0.20	6.67	0.88	0.38	0.43



Stellar Parameters For KIC 007668911

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6742^{+189}_{-284}	$4.217^{+0.132}_{-0.182}$	$-0.180^{+0.250}_{-0.300}$	$1.458^{+0.447}_{-0.298}$	$1.288^{+0.182}_{-0.202}$	$0.585^{+0.435}_{-0.308}$
	+3%/-4%	+3%/-4%	+139%/-167%	+31%/-20%	+14%/-16%	+74%/-53%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 007668911-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-78 ± 9	$1.89^{+0.48}_{-0.40}$	772^{+60}_{-52}	5788^{+674}_{-459}	2141^{+1298}_{-773}
Alt.	-45 ± 8	$1.54^{+0.44}_{-0.37}$	771^{+60}_{-50}	5578^{+786}_{-479}	1858^{+1334}_{-746}

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

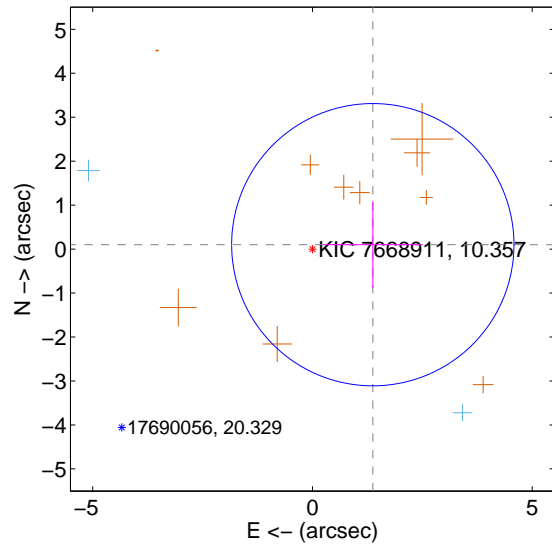
Supplemental centroid analysis for 007668911-05. **Kepler magnitude: 10.36.** Transit SNR 8.13

There are 3 quarters with good PRF difference image offsets

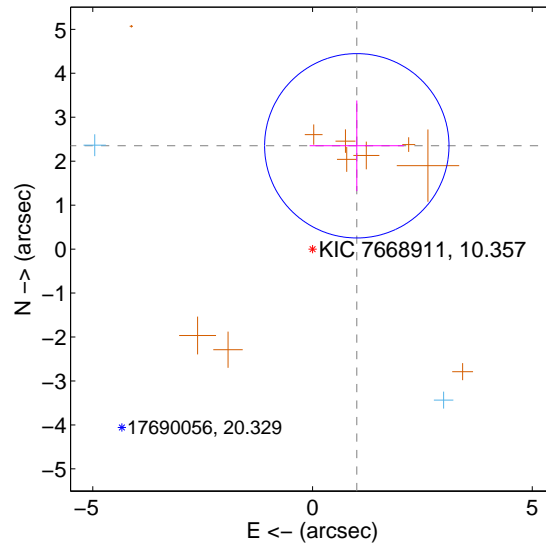
The direct PRF centroid is offset from the target star catalog position by about 1.27 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.377 ± 1.070	1.29	-1.373 ± 1.130	0.100 ± 0.990
PRF-fit source offset from KIC position	2.557 ± 0.699	3.66	-1.007 ± 1.073	2.350 ± 1.030
photometric centroid source offset	0.59 ± 0.64	0.92	-0.59 ± 0.64	0.03 ± 0.59

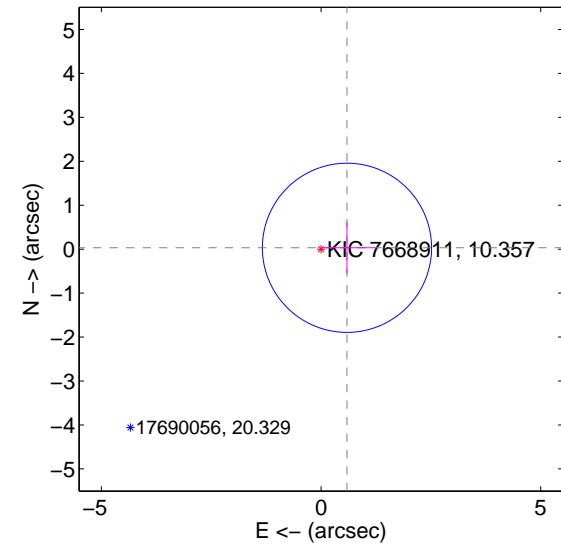
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

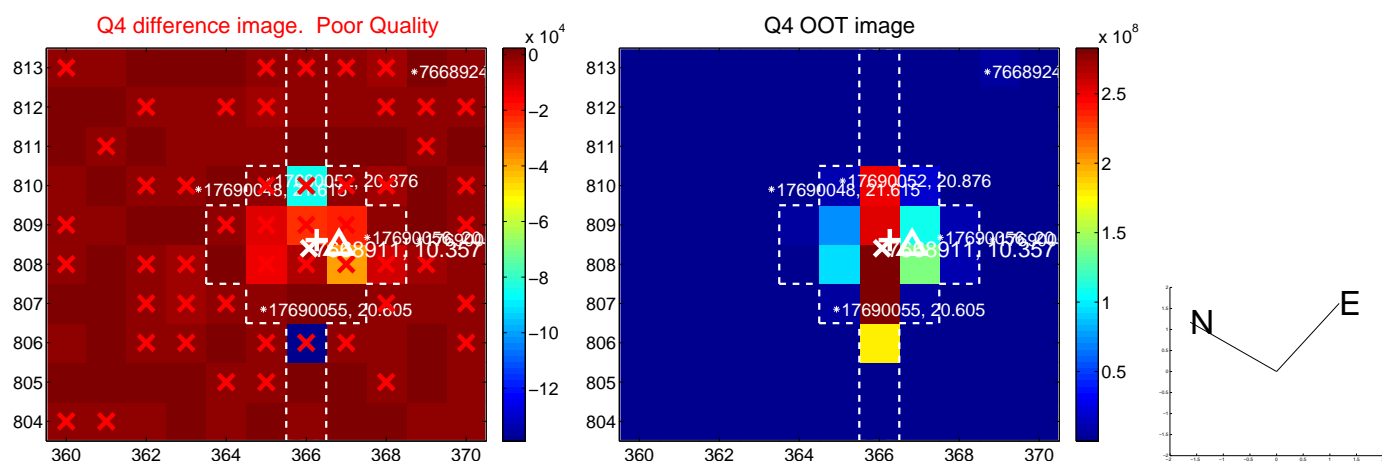
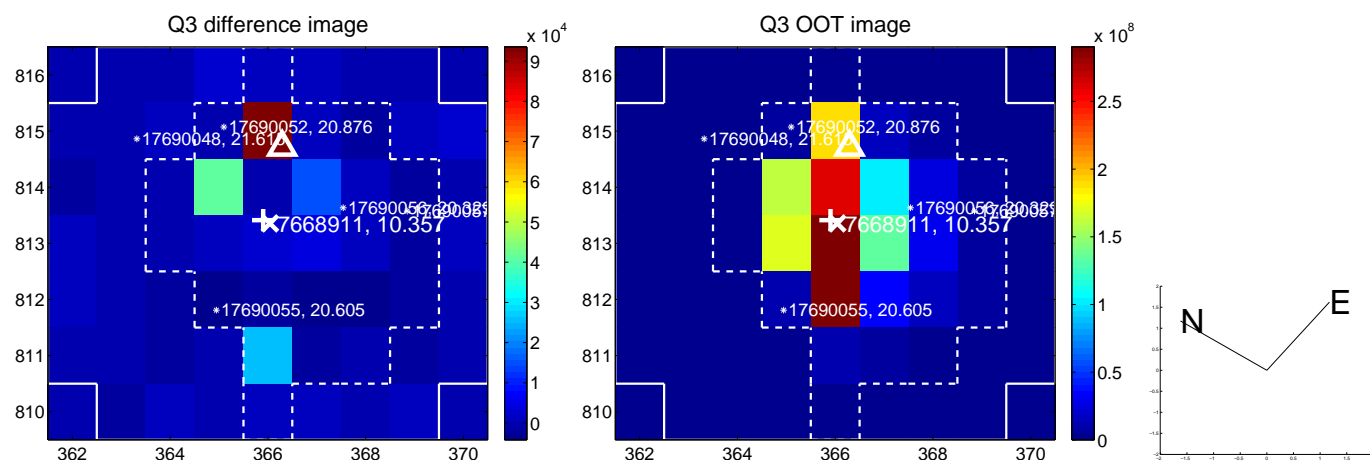
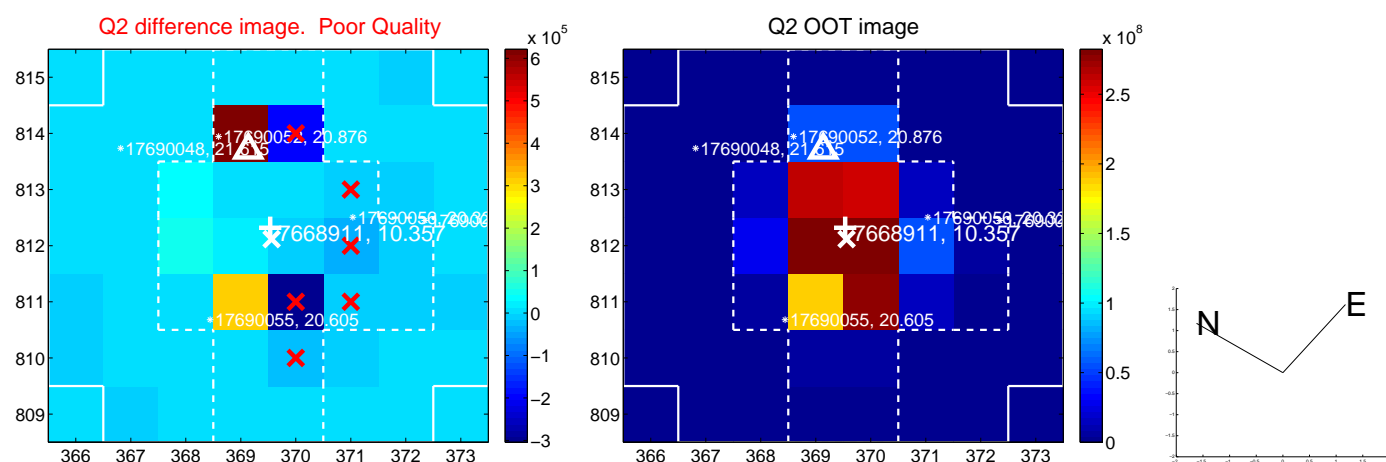
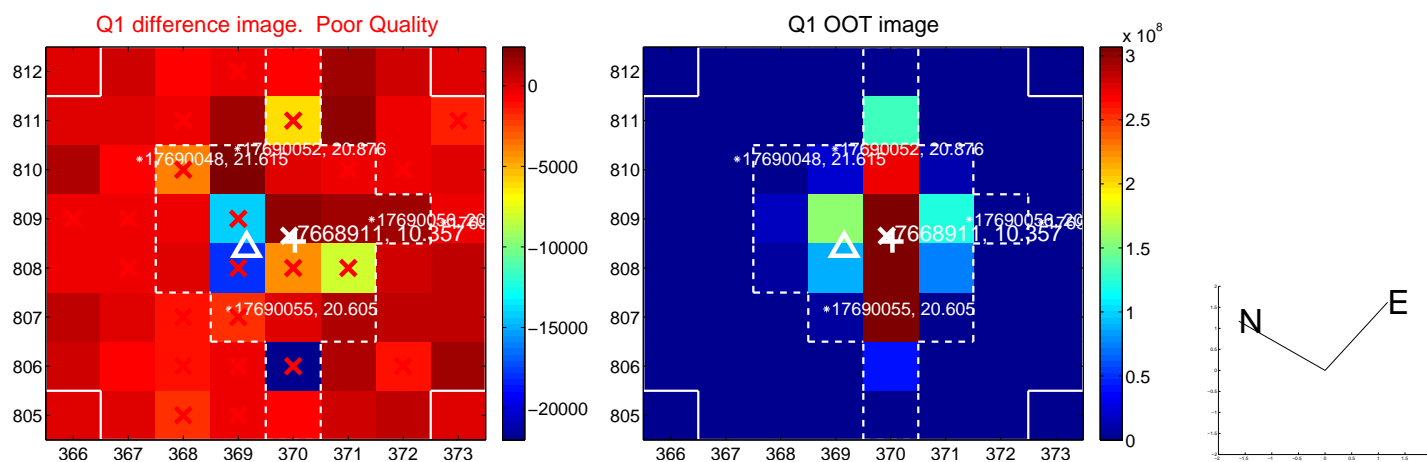


offset from photometric centroids

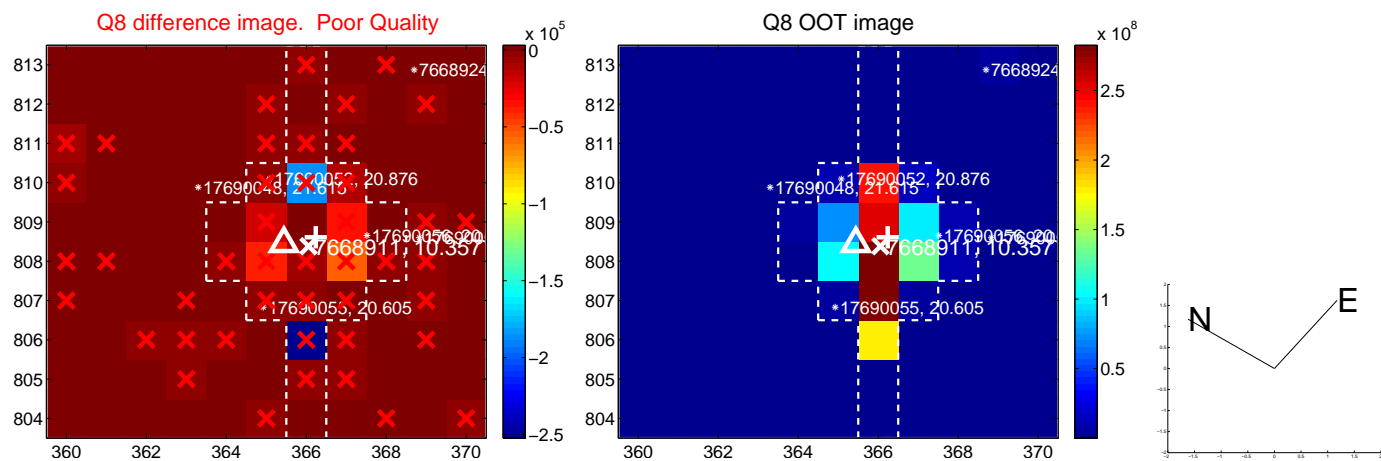
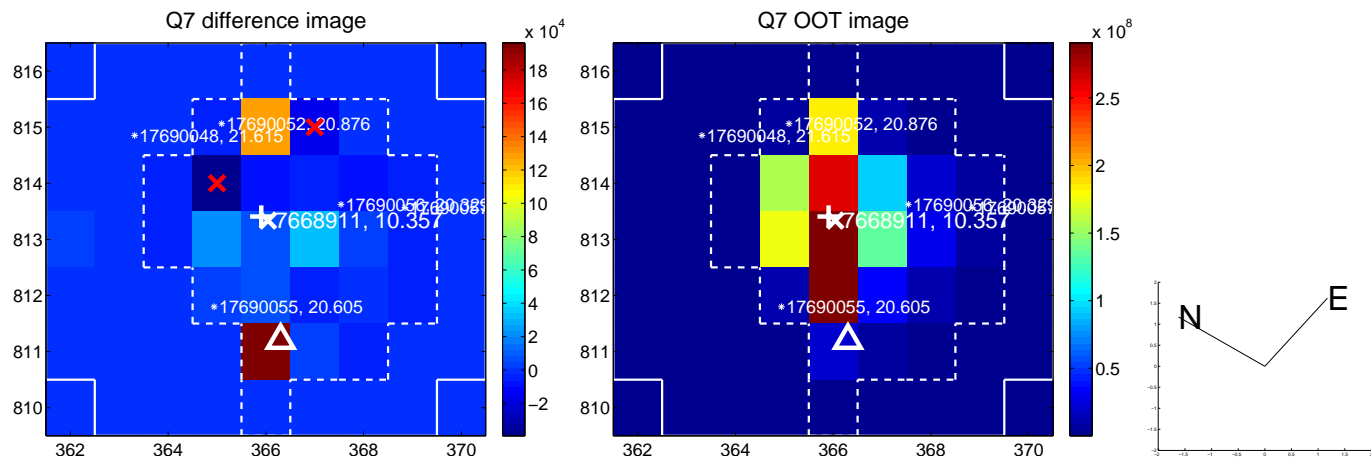
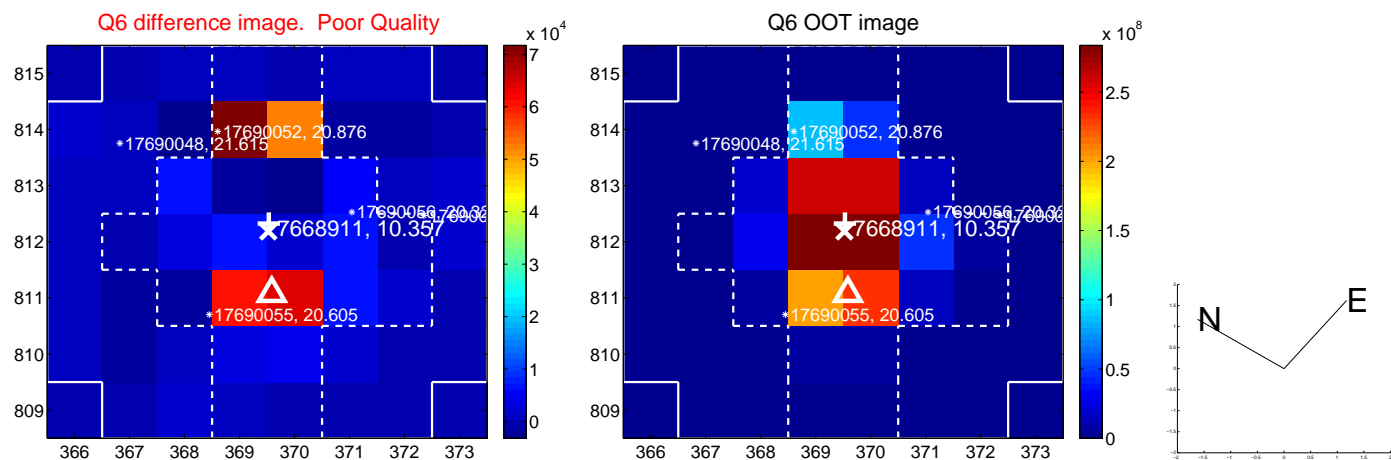
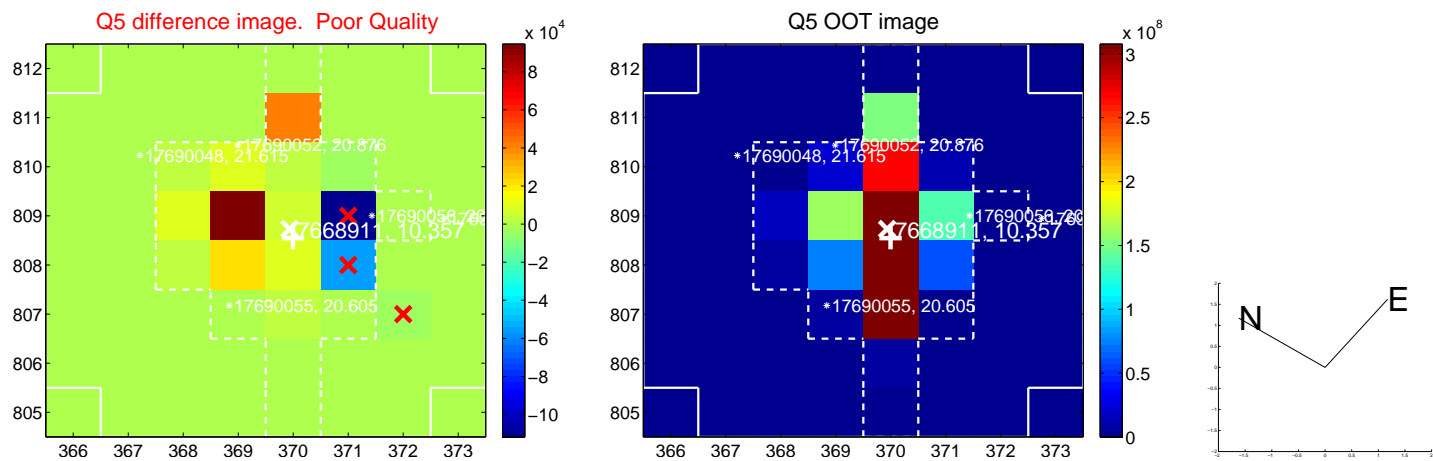


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

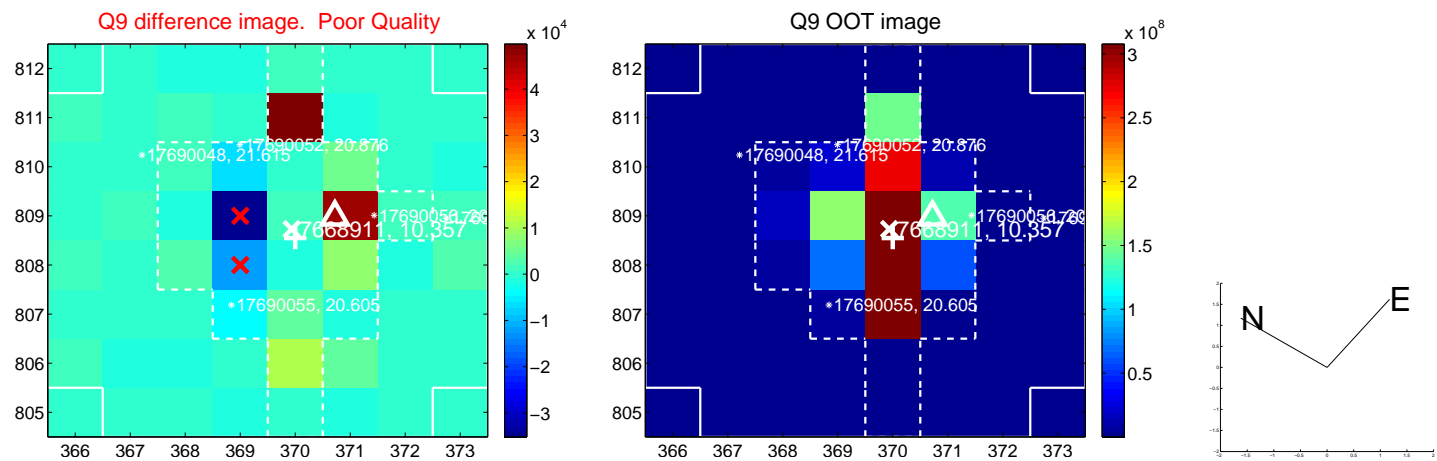
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



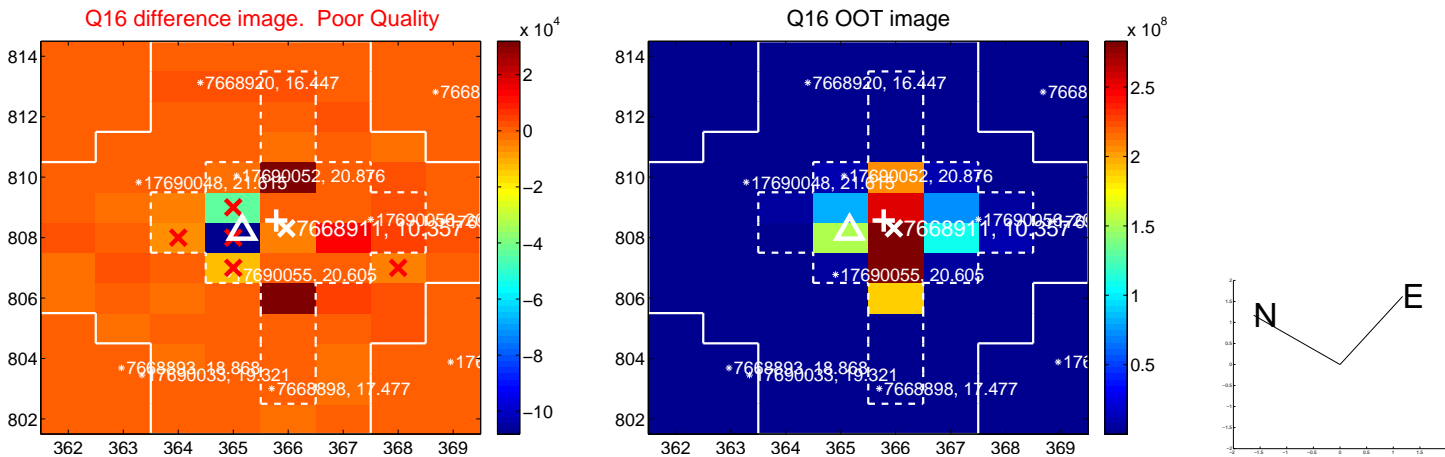
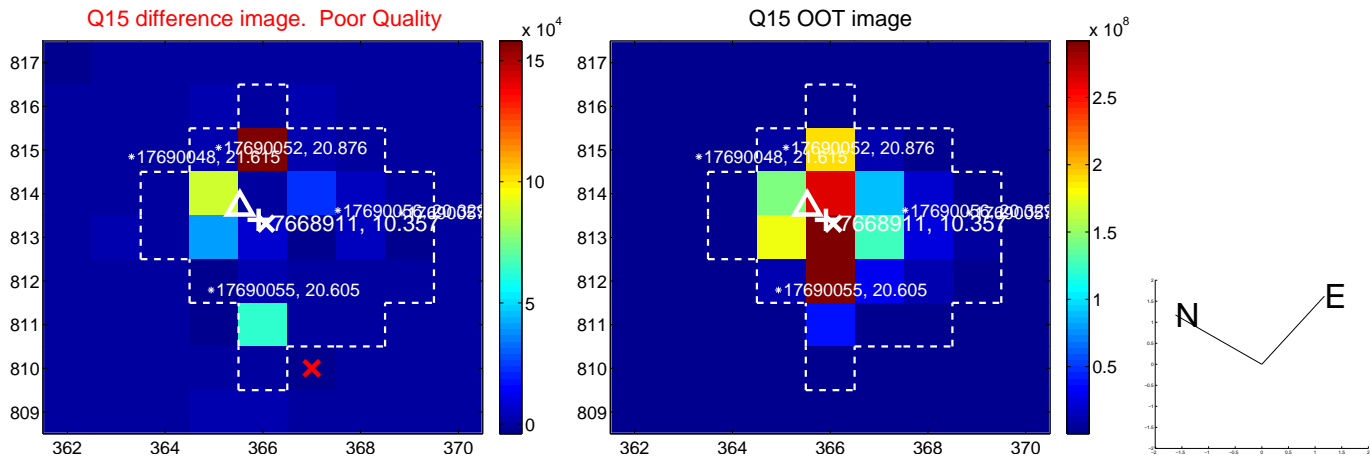
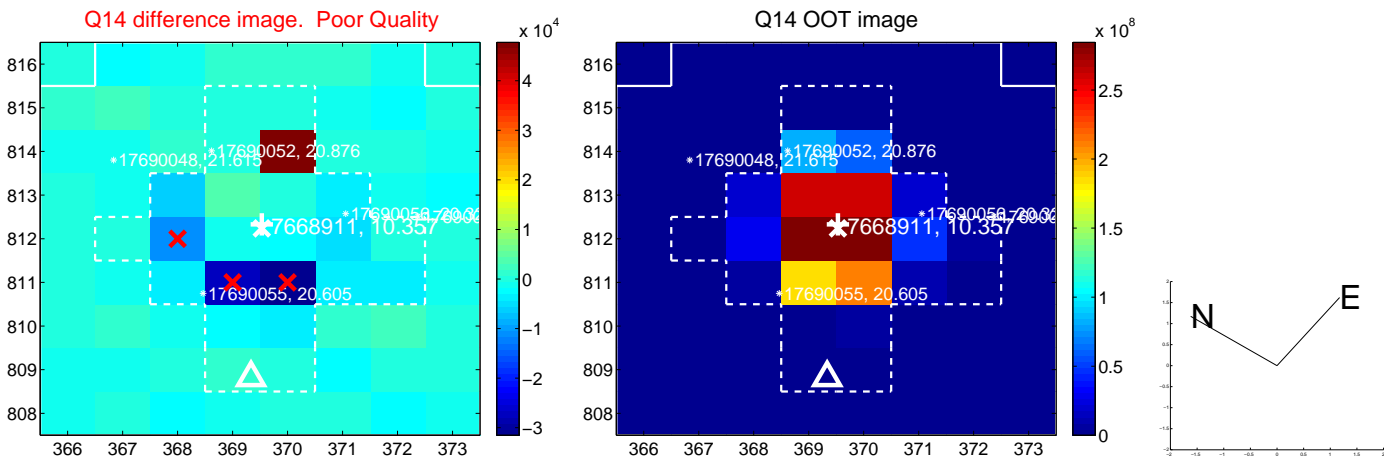
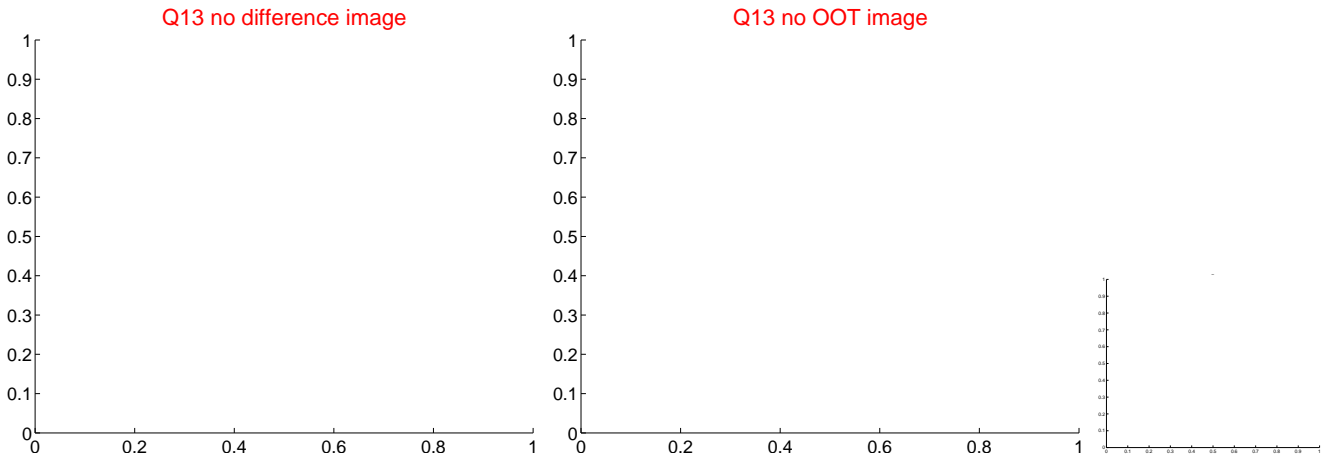
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



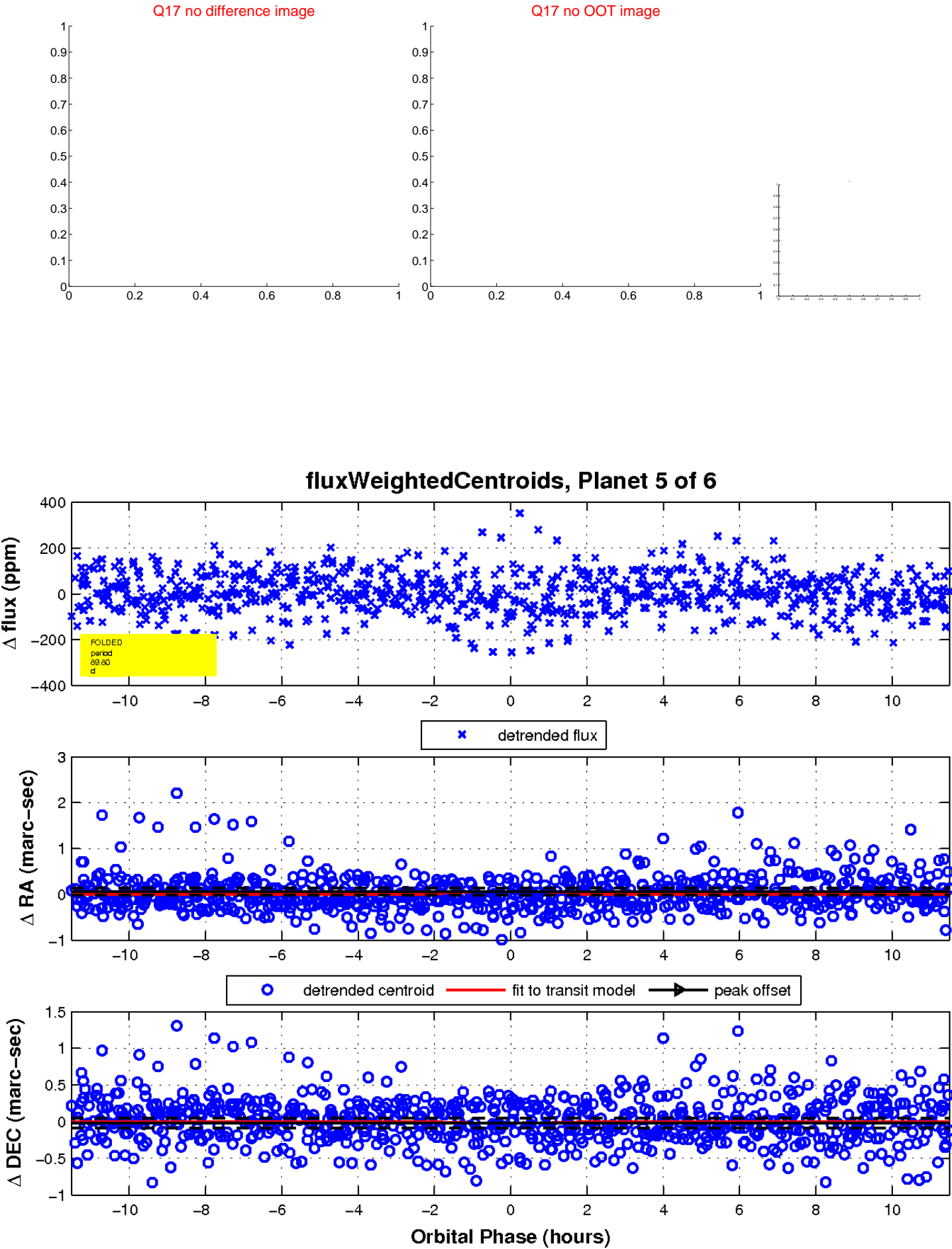
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



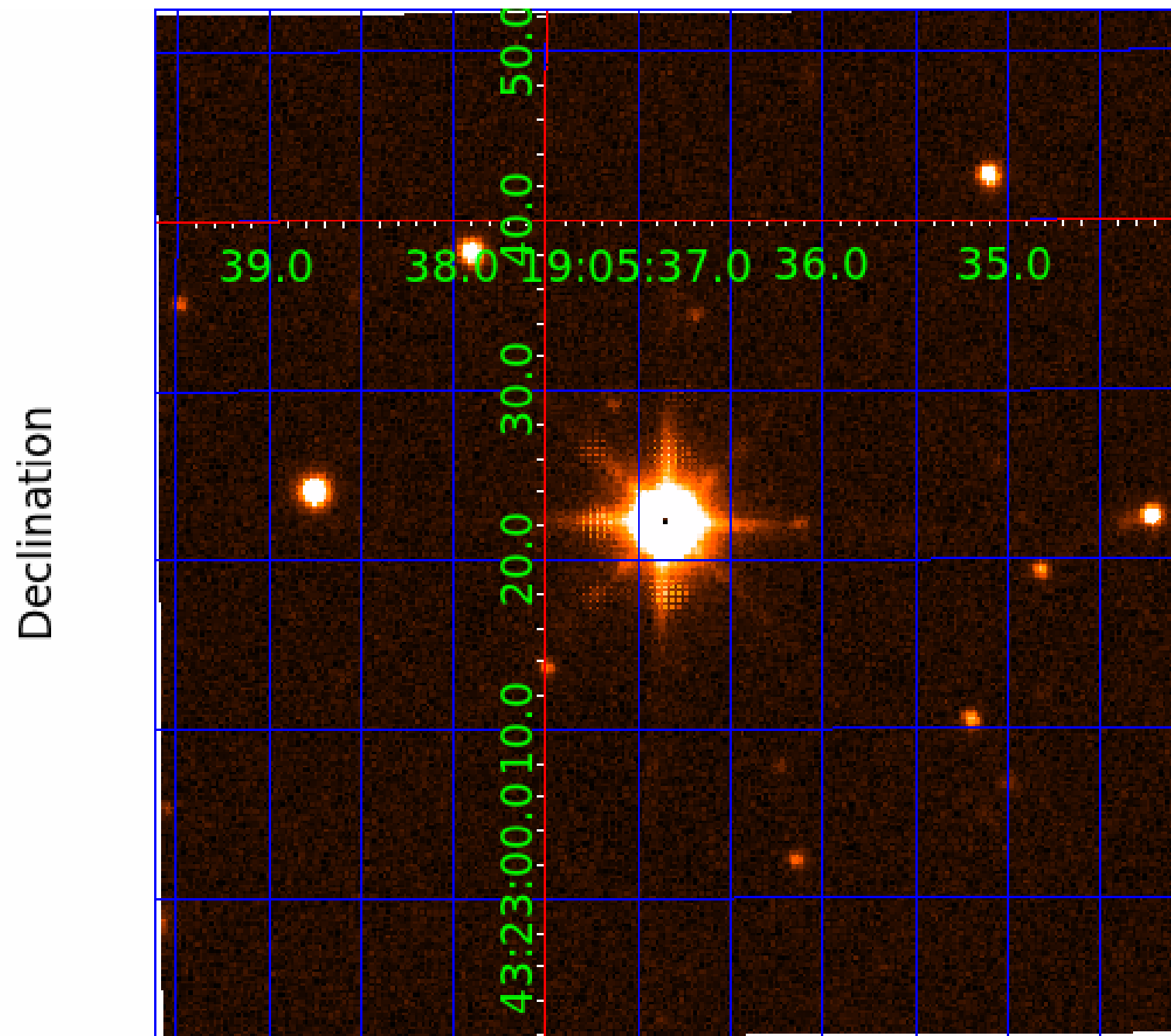
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 007668911

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})
007668911-01	OBS	No	2.633491	131.687535	20.3	6.785	10.1	8.6	1.46	6742	0.81	2397.98
007668911-02	OBS	No	2.633732	132.126409	26.4	4.439	9.4	11.2	1.46	6742	0.88	2397.68
007668911-04	OBS	No	211.442658	195.134093	154.6	9.879	8.2	7.0	1.46	6742	2.00	6.92
007668911-05	OBS	No	89.803845	154.233544	116.3	3.838	7.8	8.1	1.46	6742	1.88	21.68
007668911-06	OBS	No	258.003167	376.148277	137.0	11.434	7.6	6.5	1.46	6742	1.72	5.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007668911-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007668911-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
007668911-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—CENT_SATURATED
007668911-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
007668911-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

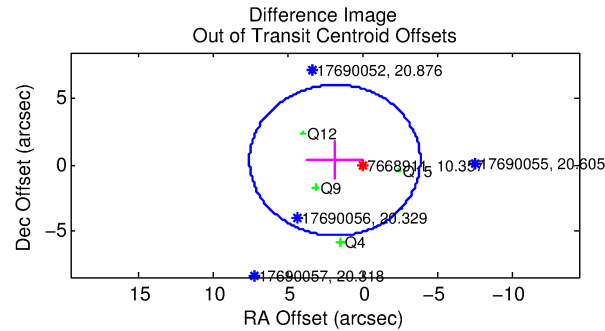
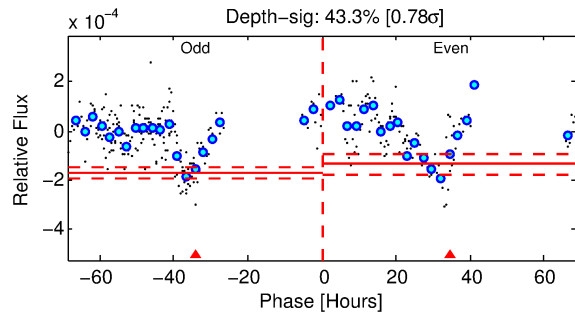
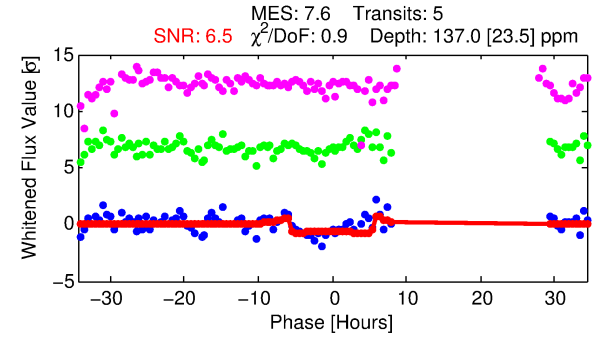
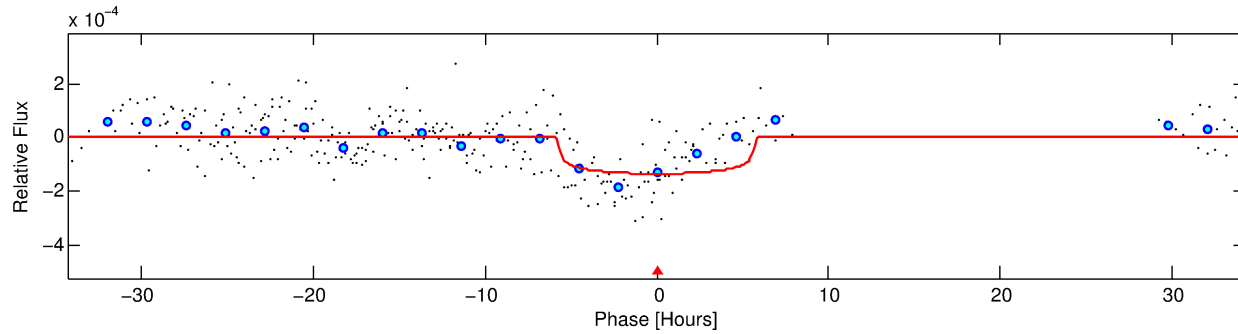
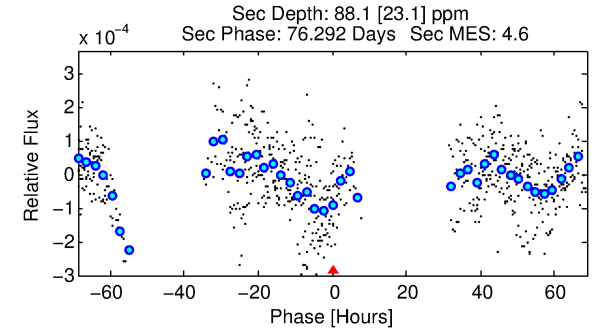
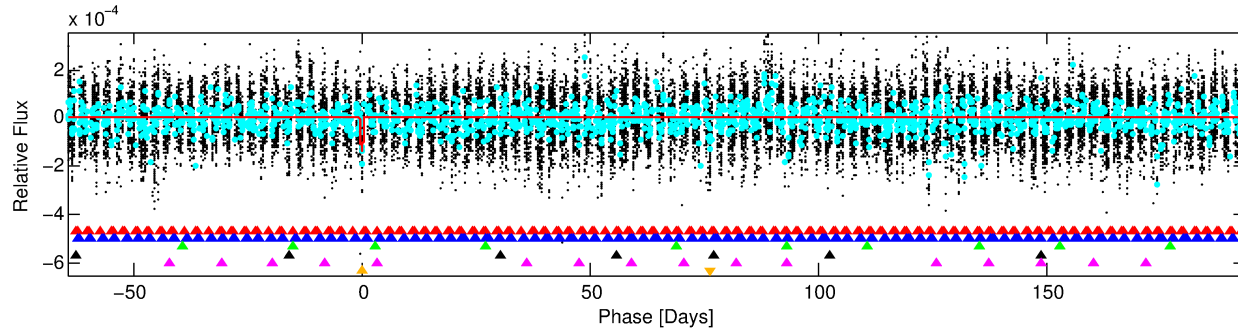
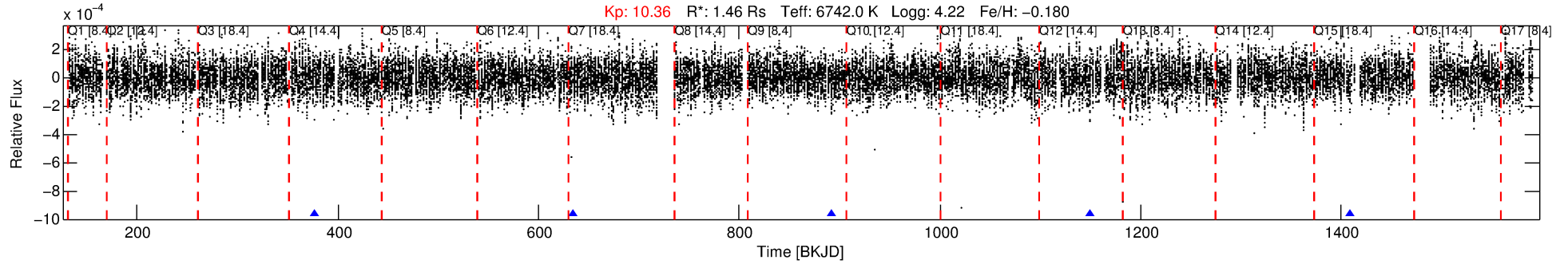
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007668911-06

No Significant Match Found

DV One-Page Summary

KIC: 7668911 Candidate: 6 of 6 Period: 258.003 d



DV Fit Results:

Period = 258.00317 [0.00370] d
Epoch = 376.1483 [0.0112] BKJD
Rp/R* = 0.0108 [0.0114]
a/R* = 174.24 [1016.75]
b = 0.00 [3343.29]
Seff = 5.31 [2.04]
Teq = 387 [37] K
Rp = 1.72 [1.89] Re
a = 0.8609 [0.2131] AU
Ag = 12149.74 [26158.05] [0.46σ]
Teffp = 6283 [3348] K [1.76σ]

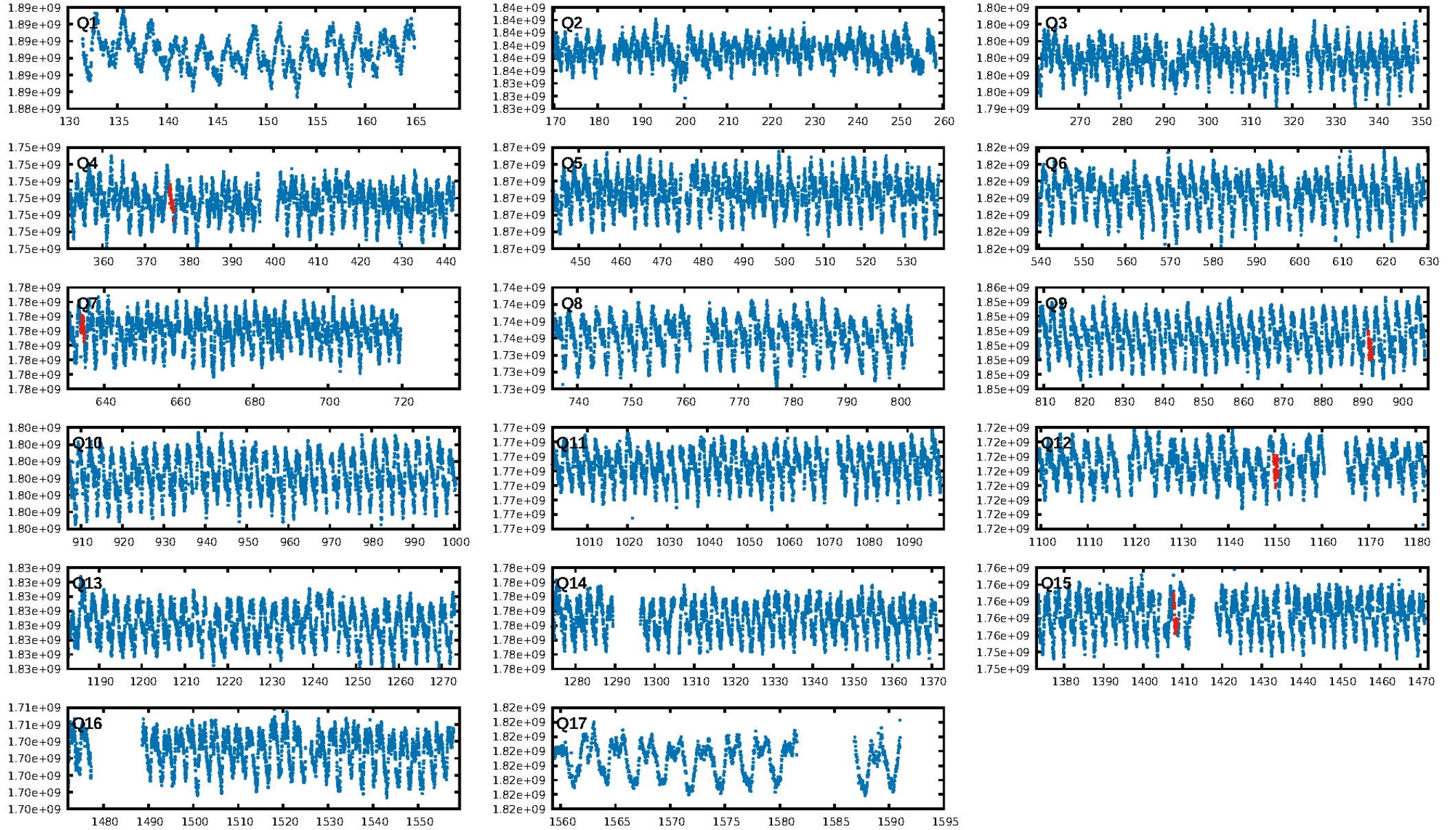
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [73.95σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 9.3%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 5.07e-09
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 5.365
Centroid-sig: 0.2%
Centroid-so: 1.873 arcsec [2.12σ]
OotOffset-rm: 1.841 arcsec [0.97σ]
OotOffset-st: 0/1/2/1 [4]
KicOffset-rm: 2.220 arcsec [1.11σ]
KicOffset-st: 0/1/2/1 [4]
DiffImageQuality-fgm: 0.25 [1/4]
DiffImageOverlap-fno: 0.00 [0/4]

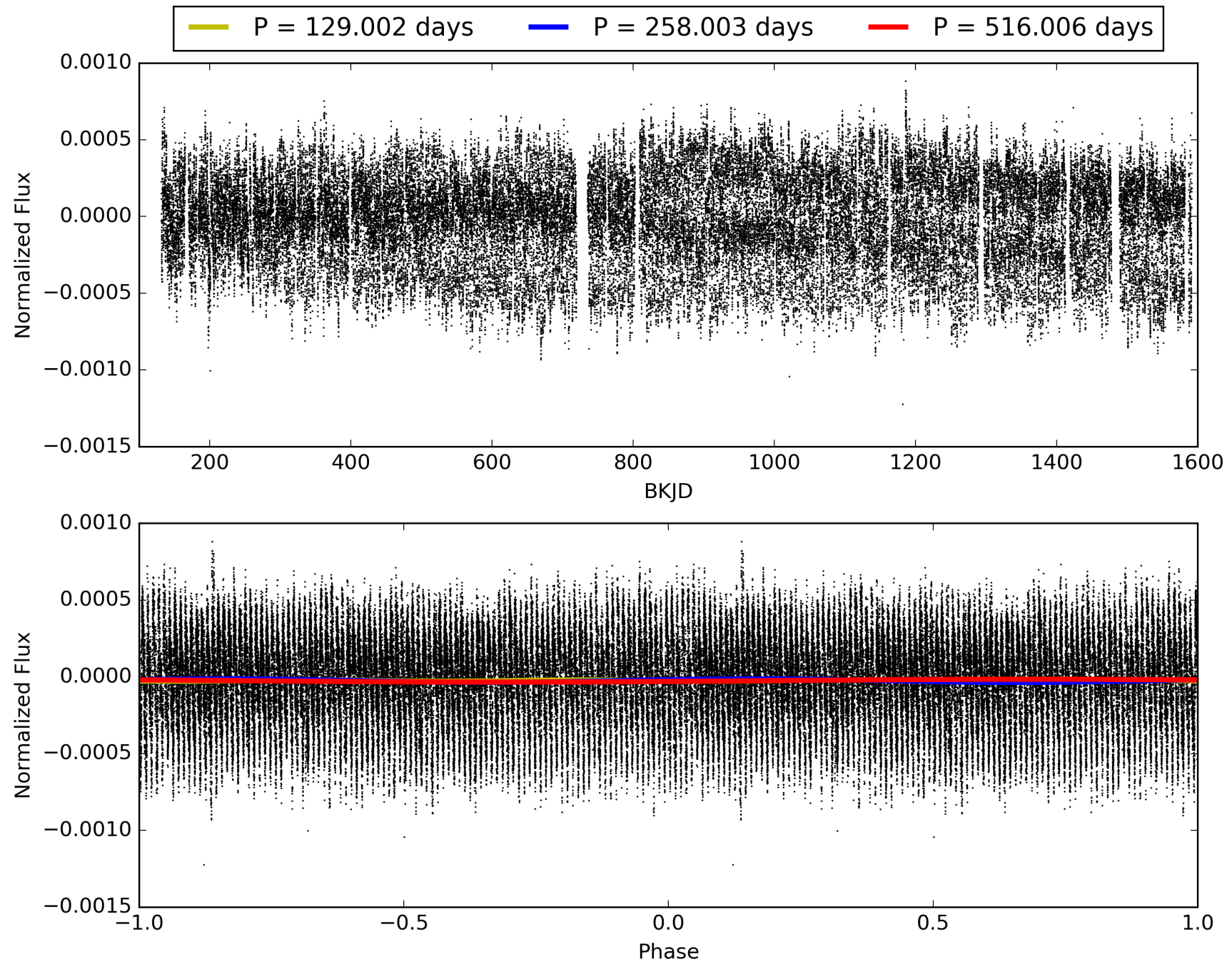
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 03:20:43 Z

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

TCE 007668911-06, PDC Light Curves

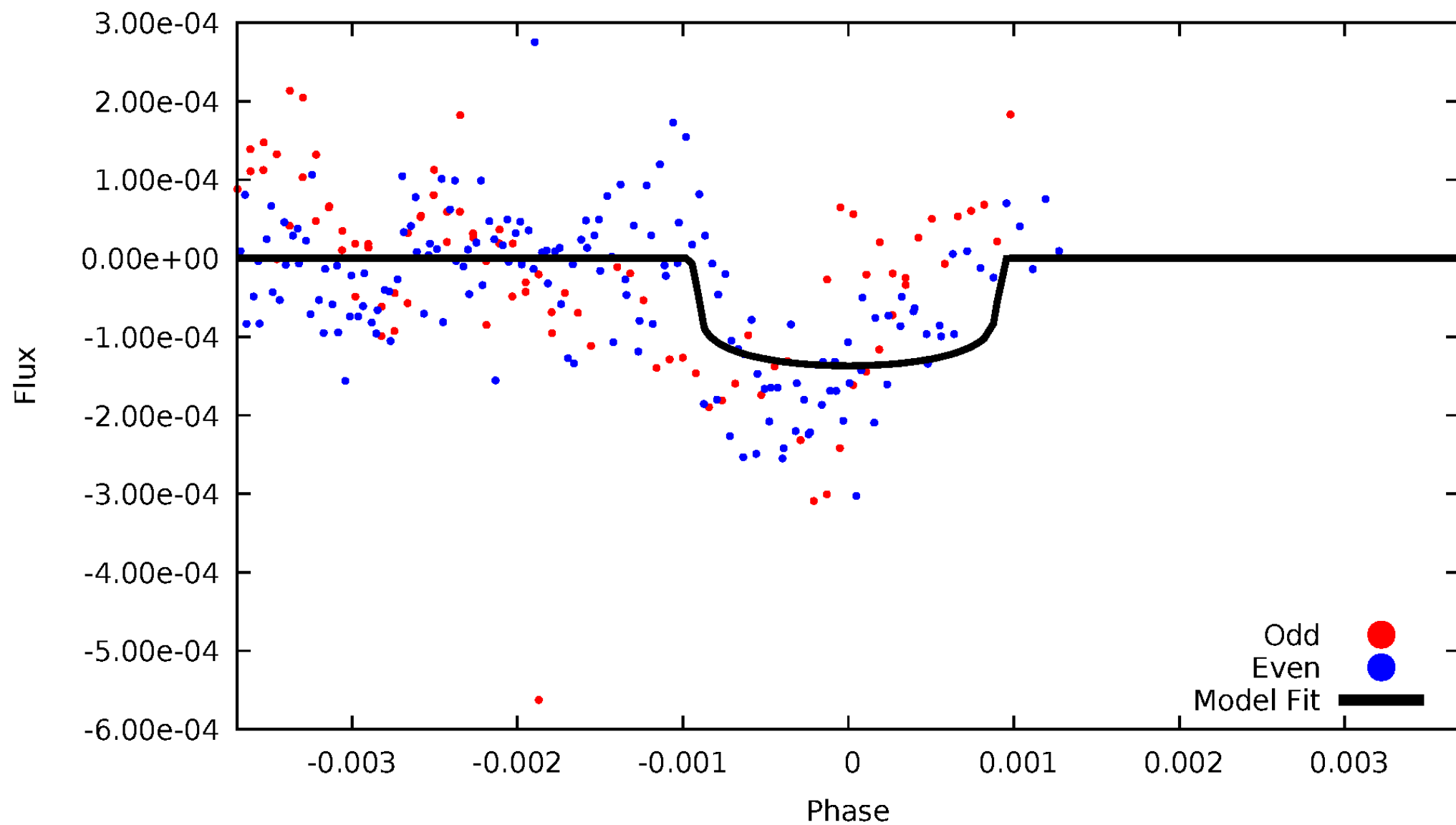


TCE 007668911-06



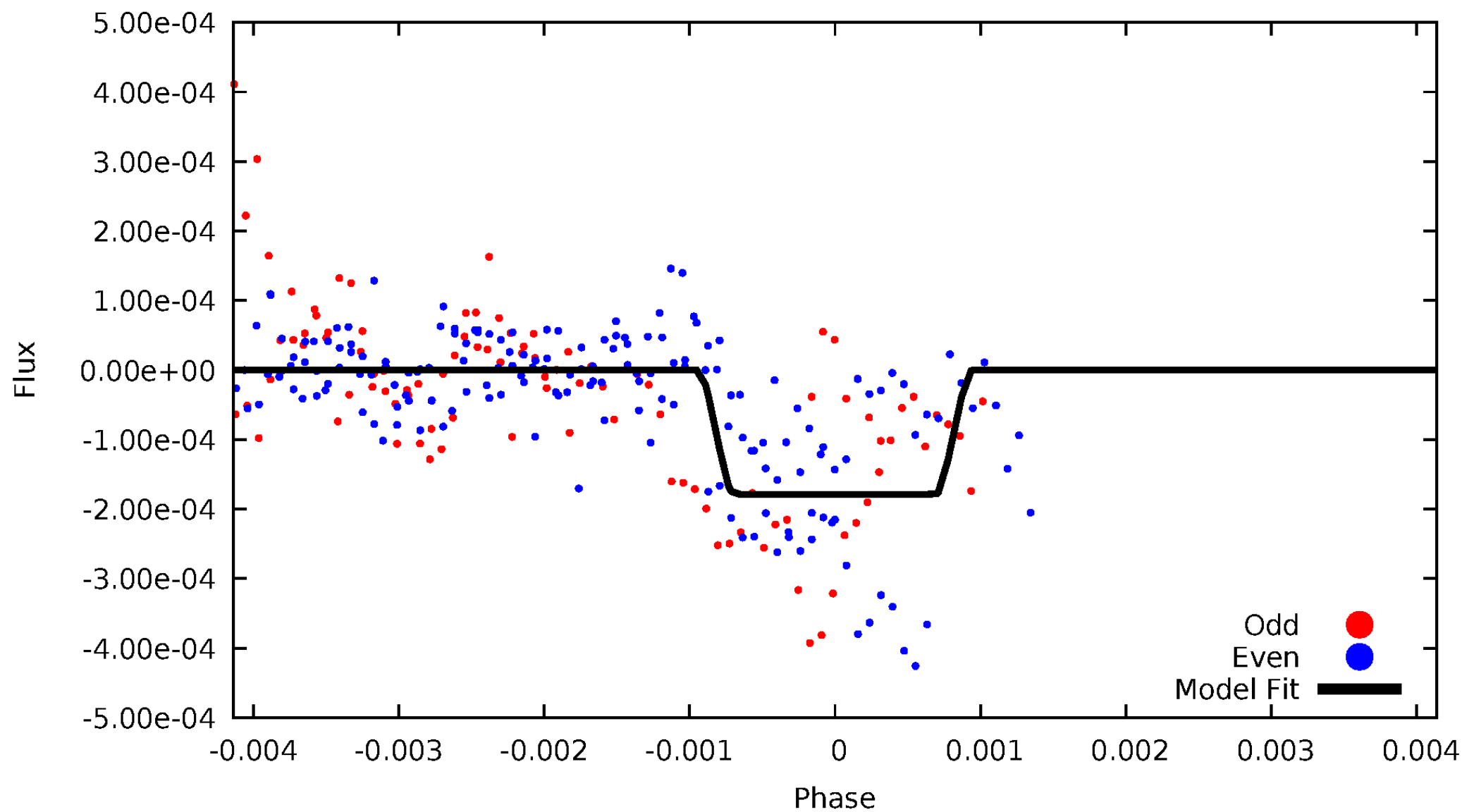
DV Odd/Even

TCE 007668911-06



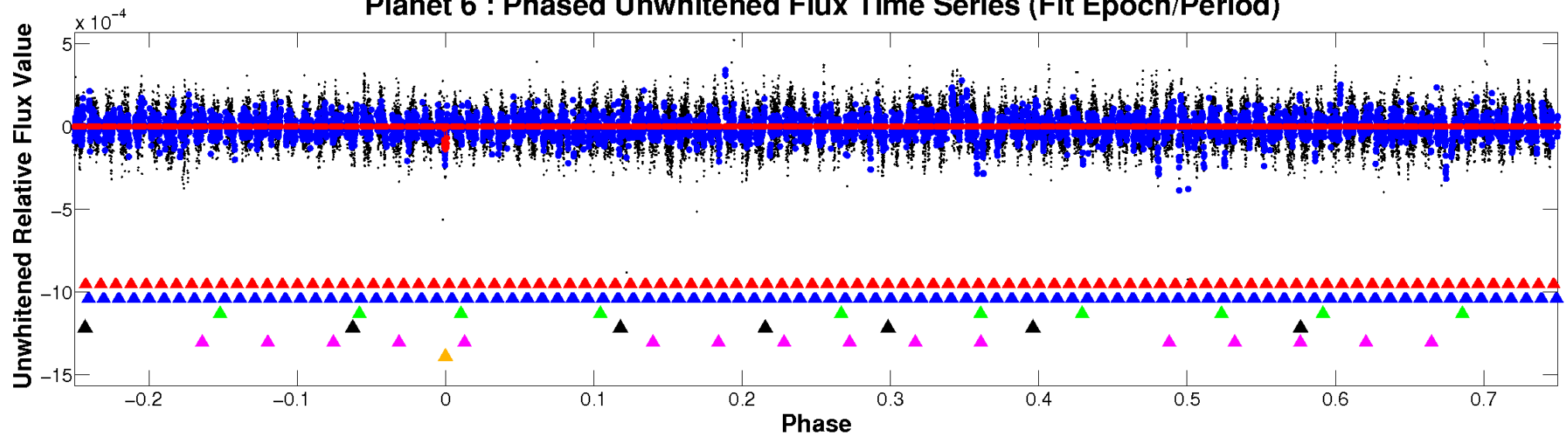
ALT Odd/Even

TCE 007668911-06

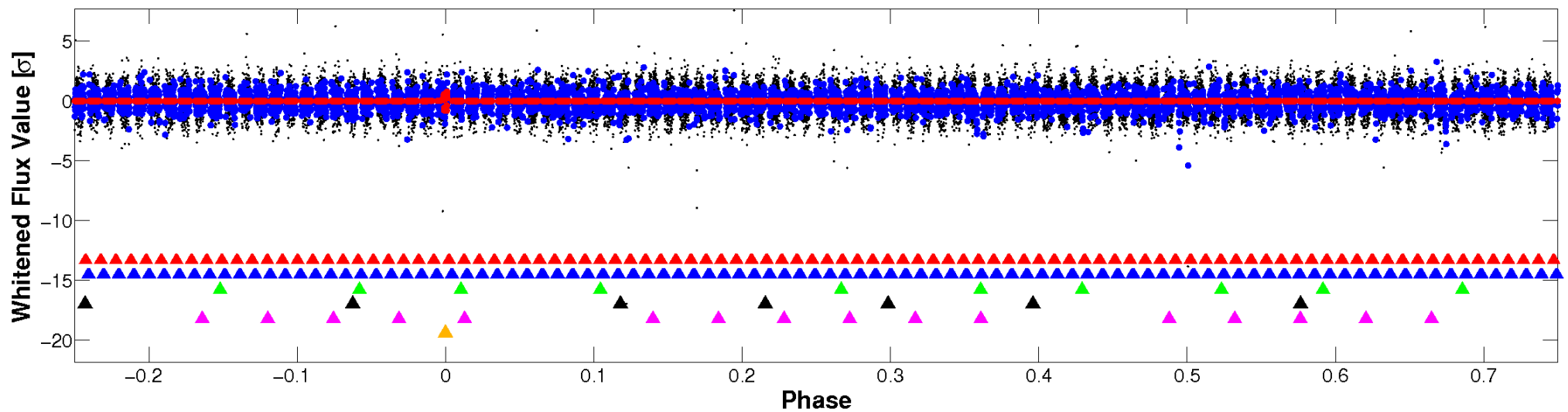


Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

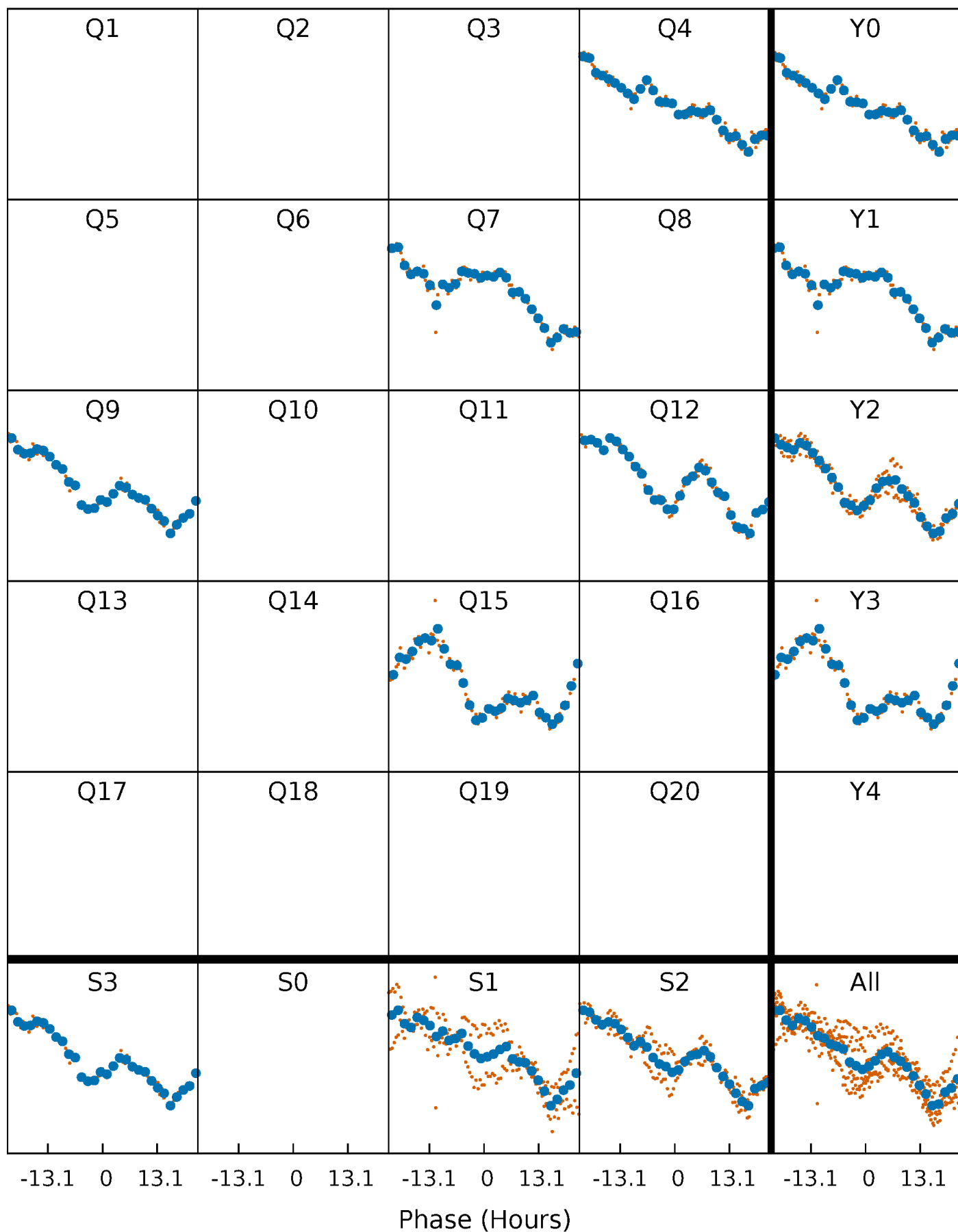


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



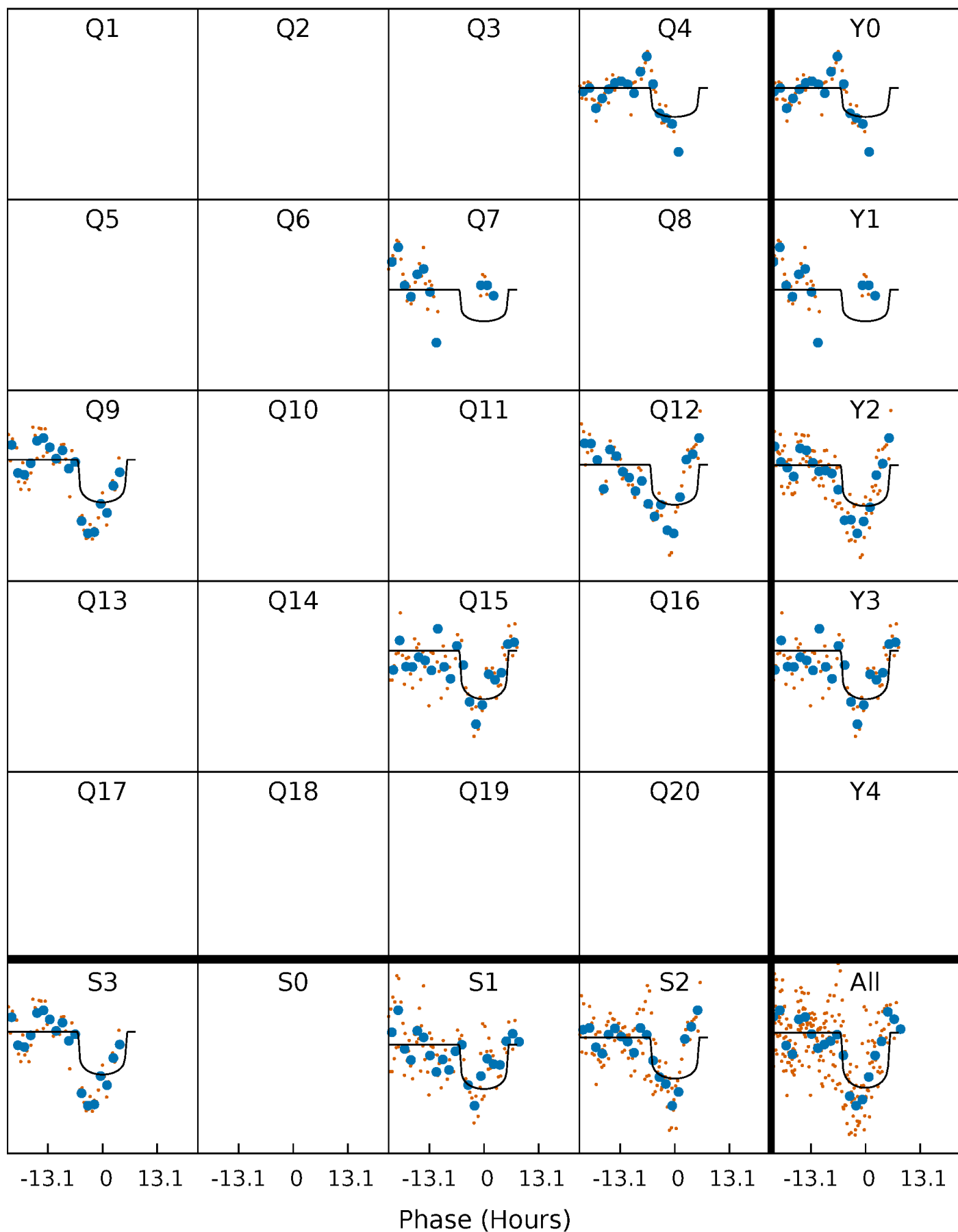
PDC Quarter-Phased Transit Curves

TCE 007668911-06 P=258.003167 Days $T_0=376.148278$ (BKJD)



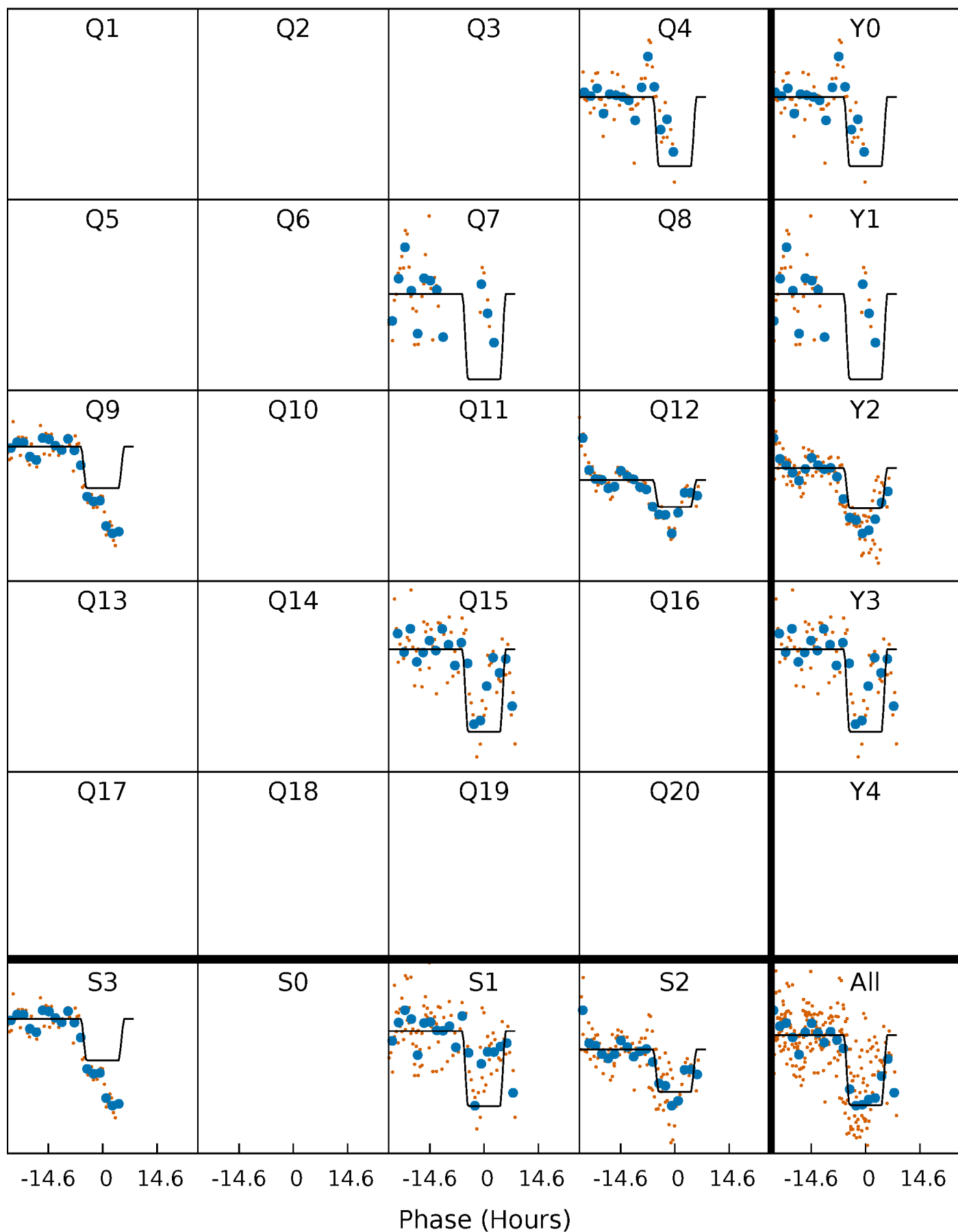
DV Quarter-Phased Transit Curves

TCE 007668911-06 P=258.003167 Days $T_0=376.148278$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

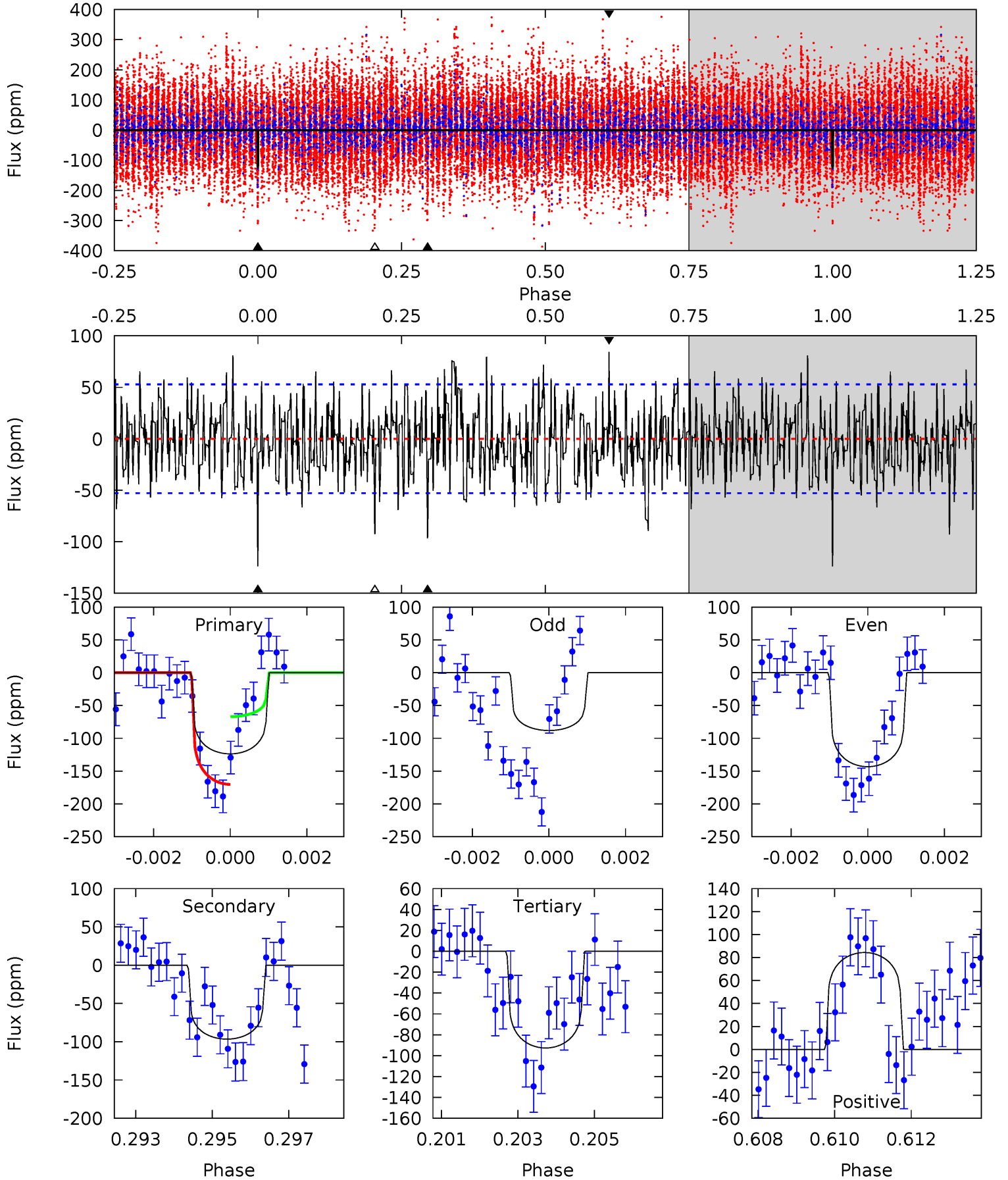
TCE 007668911-06 P=257.994129 Days $T_0=376.165919$ (BKJD)



DV Model-Shift Uniqueness Test

007668911-06, P = 258.003167 Days, E = 118.145111 Days

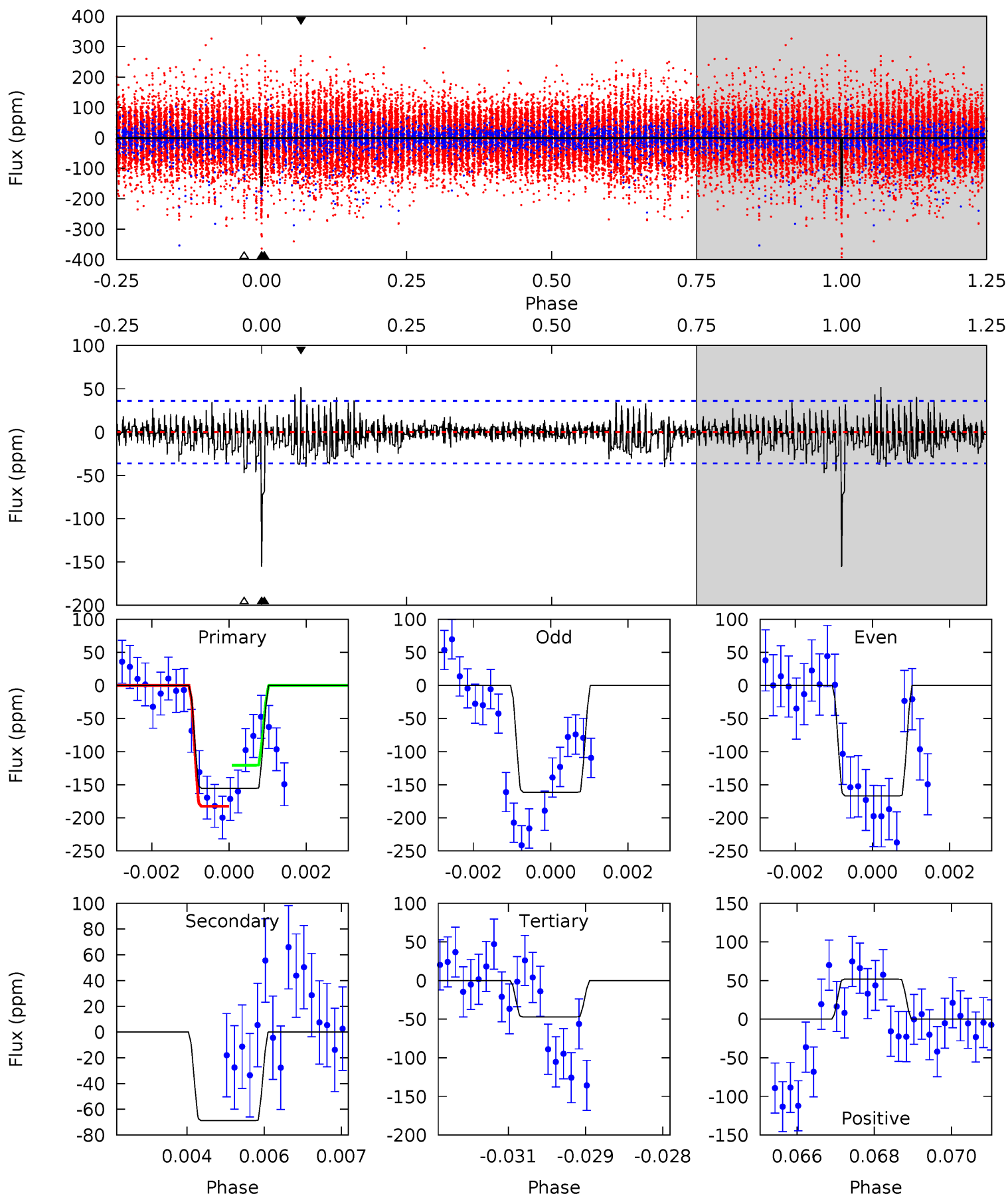
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.5	9.77	9.37	8.53	5.34	3.11	2.83	3.15	3.99	0.39	1.24	2.63	0.90	0.41	5.19



Alt Model-Shift Uniqueness Test

007668911-06, P = 257.994129 Days, E = 118.171790 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.0	10.2	6.95	7.64	5.34	3.12	1.52	16.1	15.4	3.22	2.53	0.38	1.55	0.25	4.47



Stellar Parameters For KIC 007668911

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6742^{+189}_{-284}	$4.217^{+0.132}_{-0.182}$	$-0.180^{+0.250}_{-0.300}$	$1.458^{+0.447}_{-0.298}$	$1.288^{+0.182}_{-0.202}$	$0.585^{+0.435}_{-0.308}$
	+3%/-4%	+3%/-4%	+139%/-167%	+31%/-20%	+14%/-16%	+74%/-53%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 007668911-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-97 ± 10	$2.19^{+1.70}_{-1.45}$	540^{+44}_{-35}	5645^{+4961}_{-1130}	8070^{+61345}_{-5473}
Alt.	-69 ± 7	$2.35^{+1.73}_{-1.38}$	542^{+39}_{-35}	5061^{+2775}_{-937}	4806^{+22827}_{-3173}

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

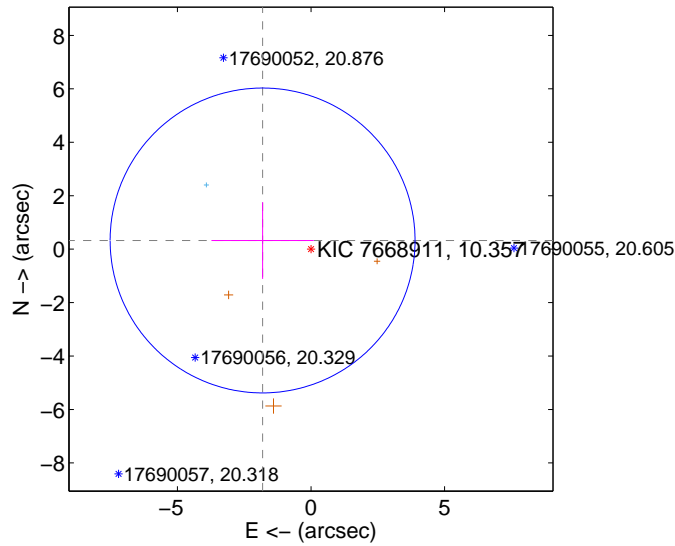
Supplemental centroid analysis for 007668911-06. **Kepler magnitude: 10.36.** Transit SNR 6.50

There are 1 quarters with good PRF difference image offsets

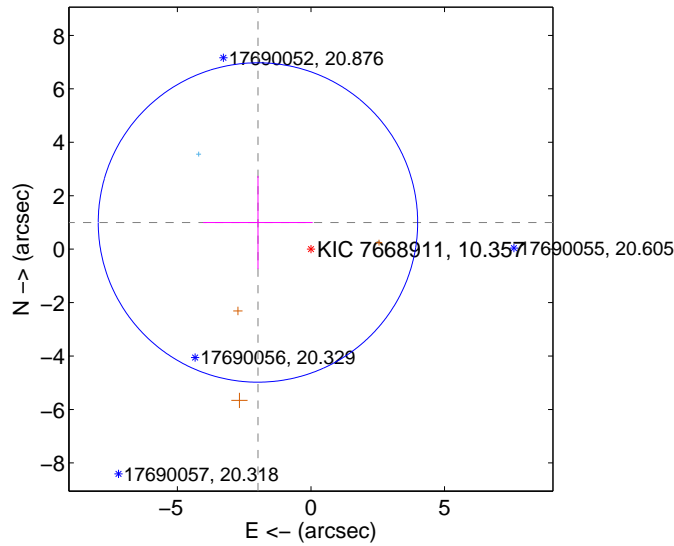
The direct PRF centroid is offset from the target star catalog position by about 0.70 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.841 ± 1.902	0.97	1.812 ± 1.915	0.325 ± 1.435
PRF-fit source offset from KIC position	2.220 ± 1.992	1.11	1.983 ± 2.051	0.998 ± 1.742
photometric centroid source offset	1.87 ± 0.88	2.12	-0.84 ± 0.99	-1.67 ± 0.85

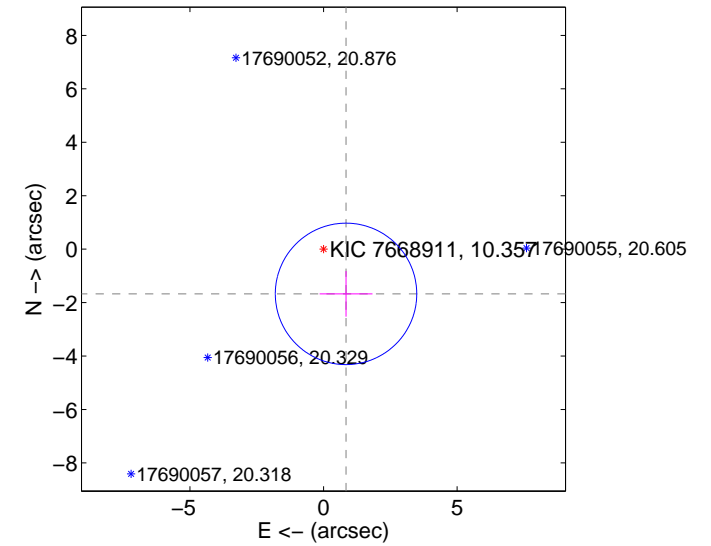
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

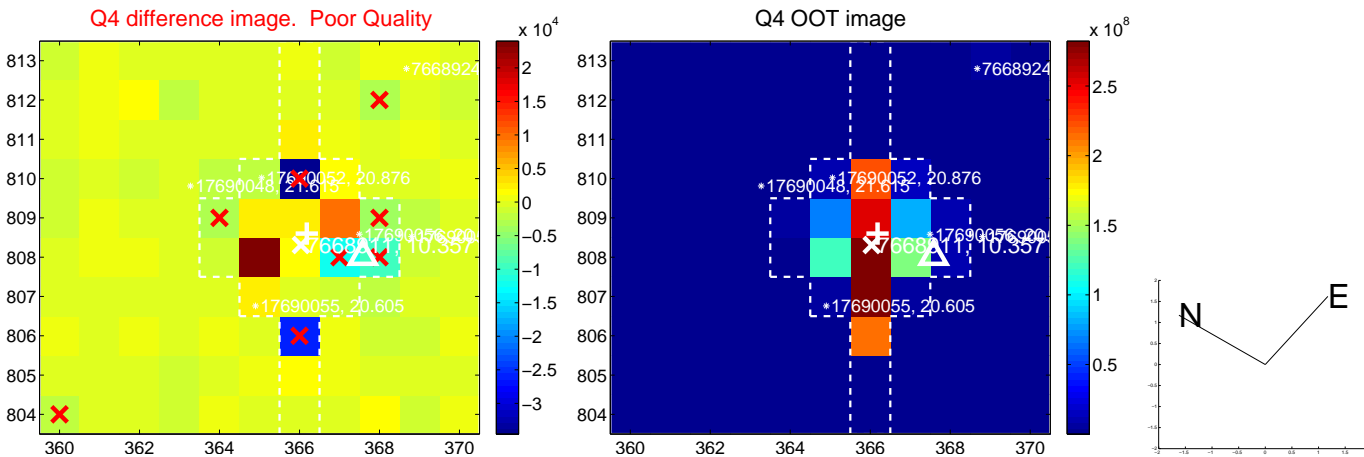
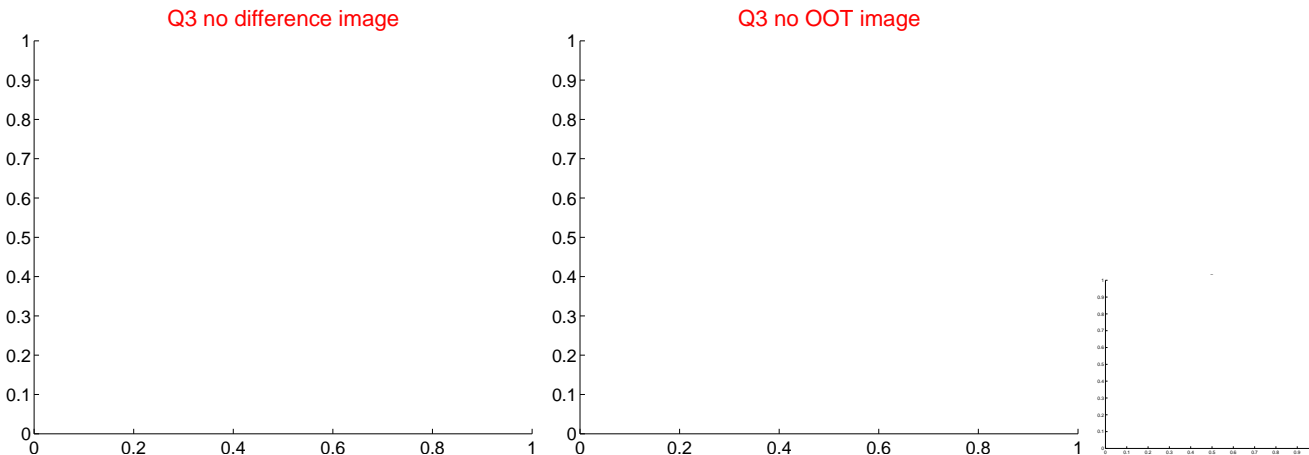
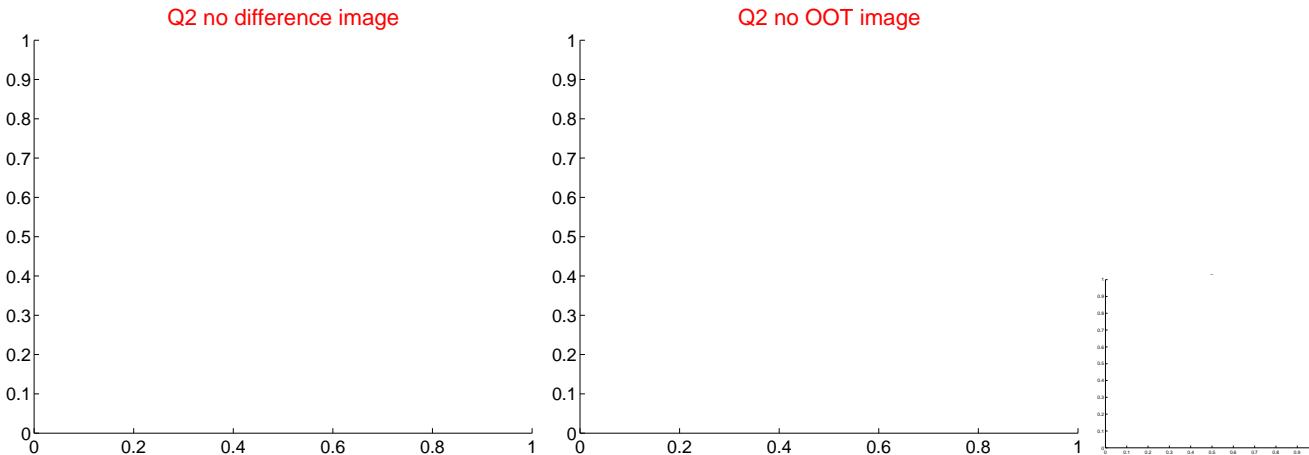
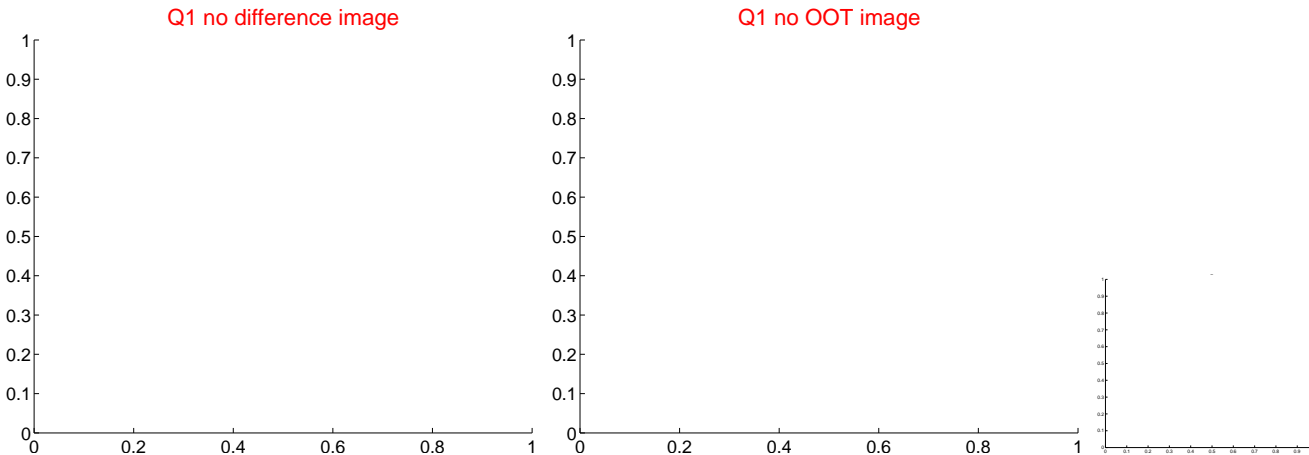


offset from photometric centroids



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.

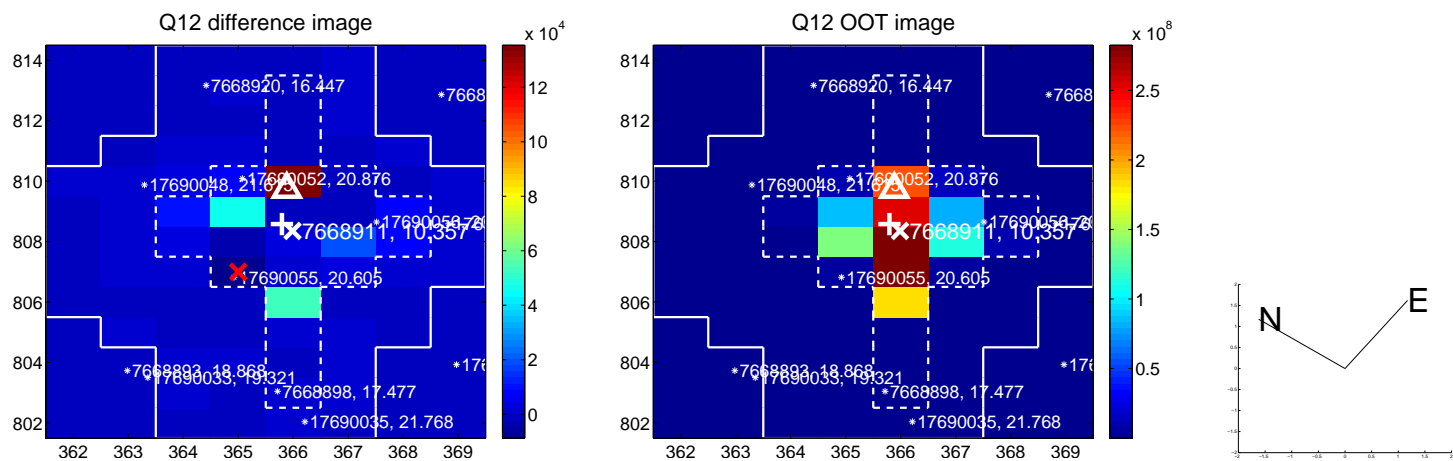
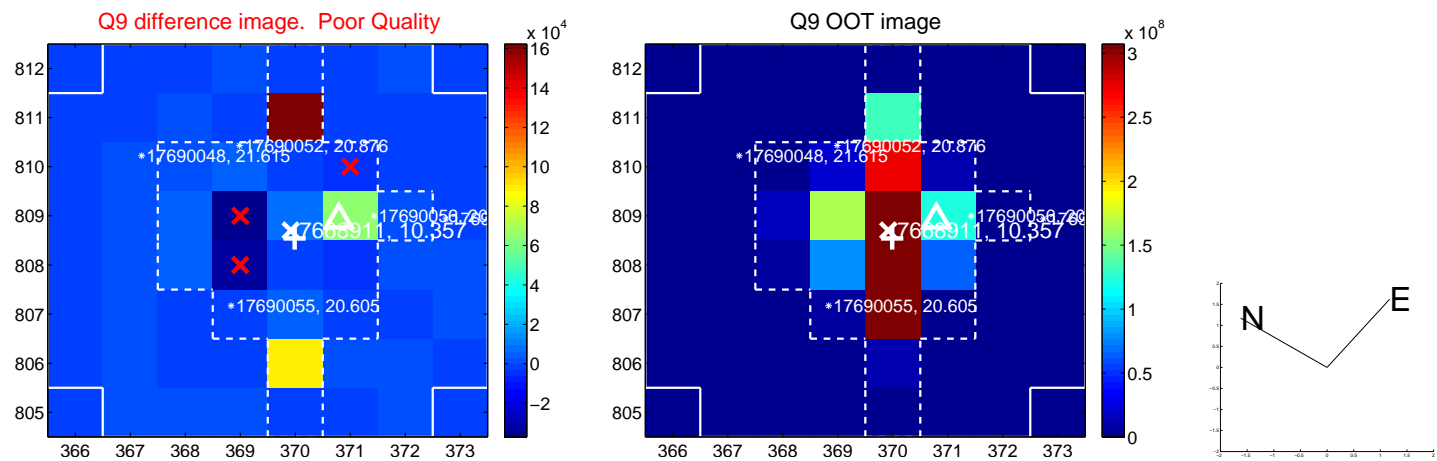
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



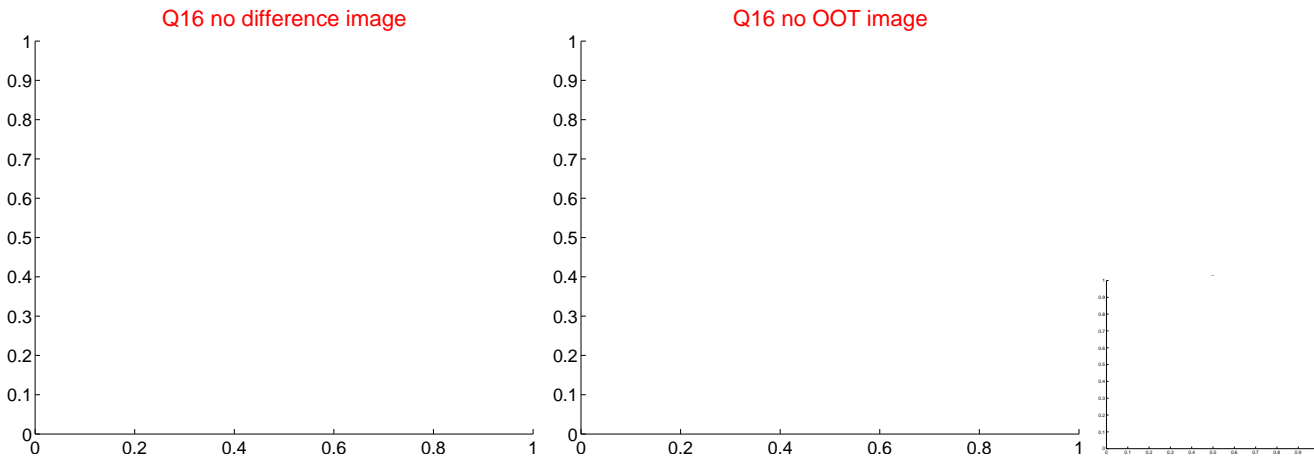
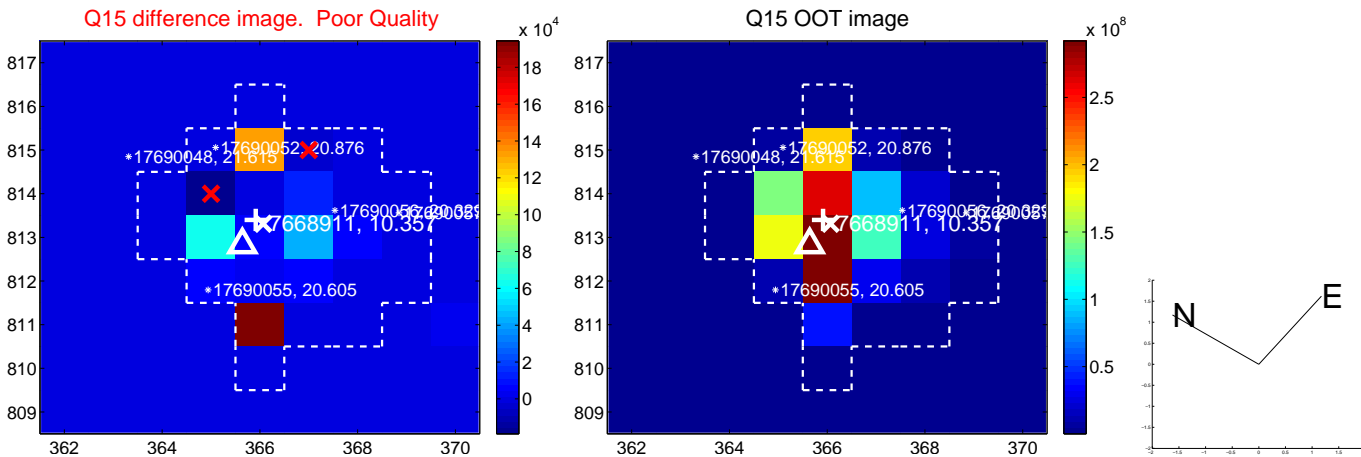
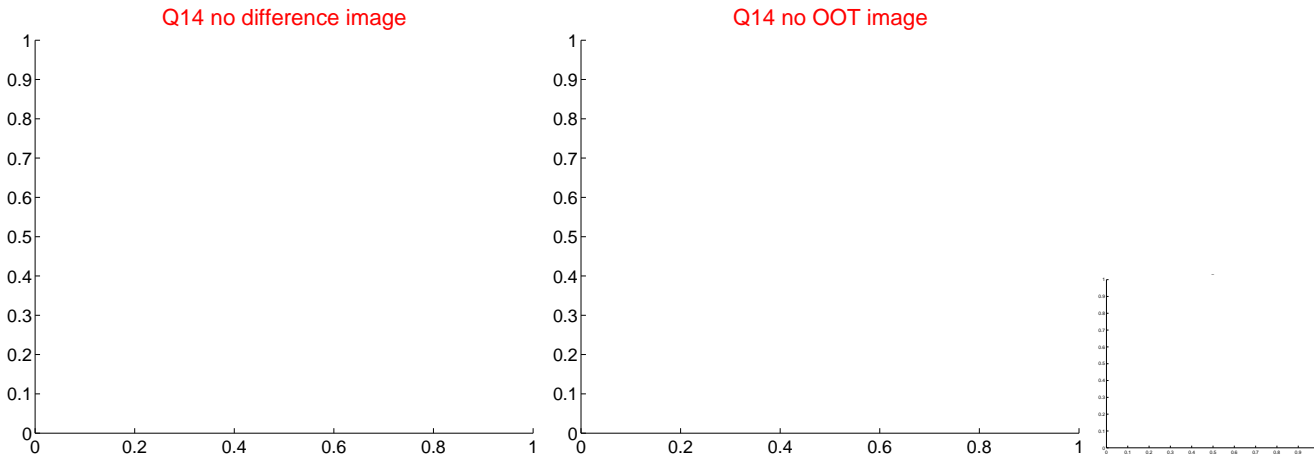
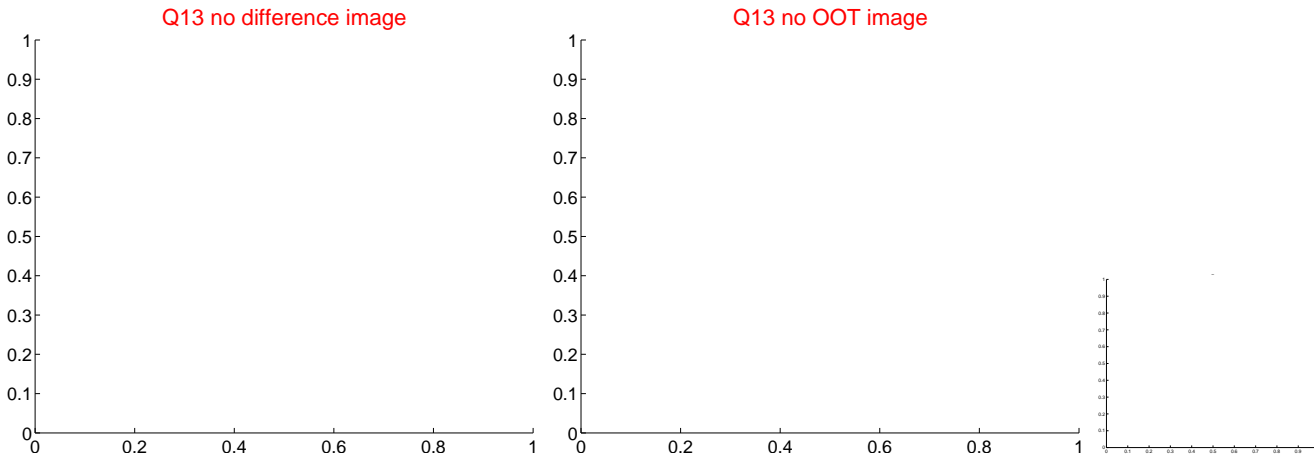
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



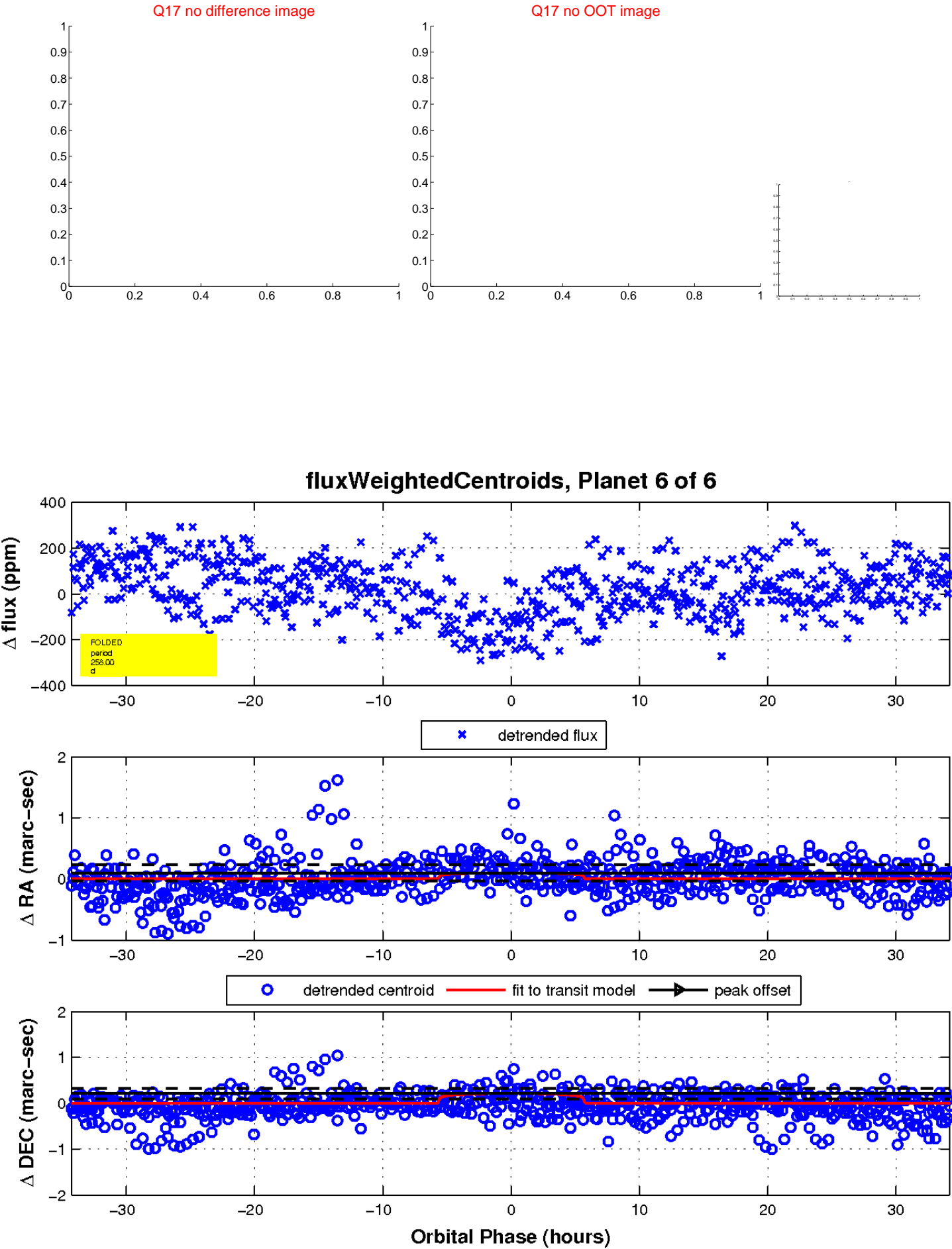
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

