

KIC 006801692

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})
006801692-01	OBS	No	3.239642	133.039603	109.9	19.862	8.8	8.9	0.70	5057	0.73	205.20
006801692-02	OBS	No	124.027545	212.900032	1454.6	21.381	13.1	10.5	0.70	5057	2.87	1.59
006801692-03	OBS	No	320.602011	235.396021	1305.9	36.497	12.3	7.9	0.70	5057	2.87	0.45
006801692-04	OBS	No	91.440160	160.763968	666.6	21.810	9.1	5.7	0.70	5057	1.90	2.39
006801692-05	OBS	No	69.257818	144.625596	1562.5	2.163	7.5	7.4	0.70	5057	4.33	3.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006801692-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006801692-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—HALO_GHOST
006801692-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006801692-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
006801692-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_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.

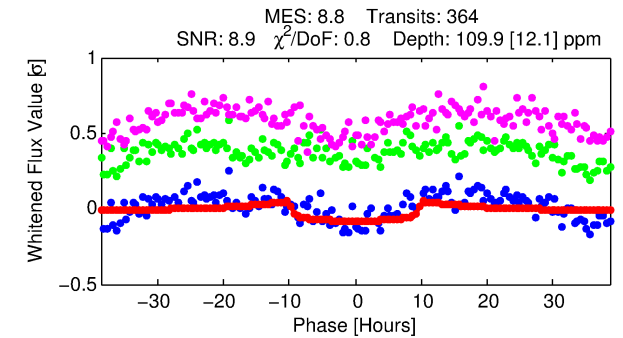
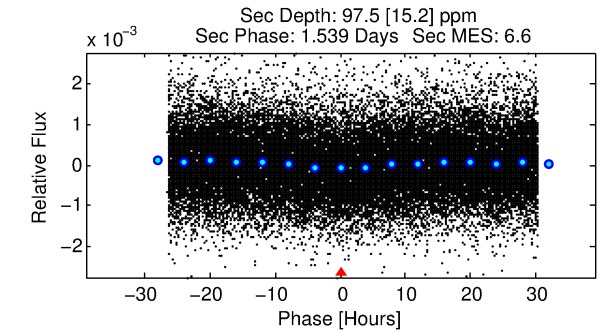
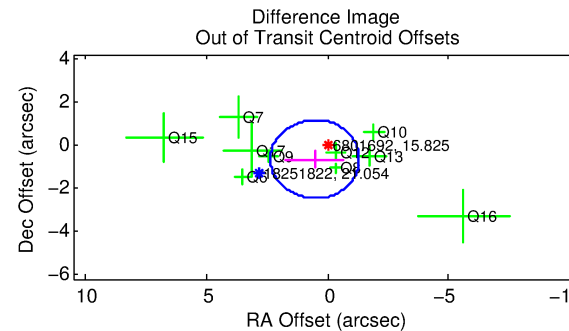
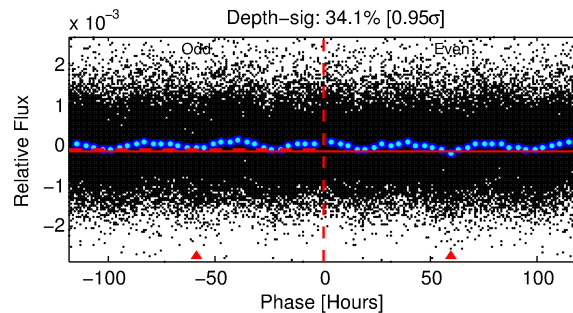
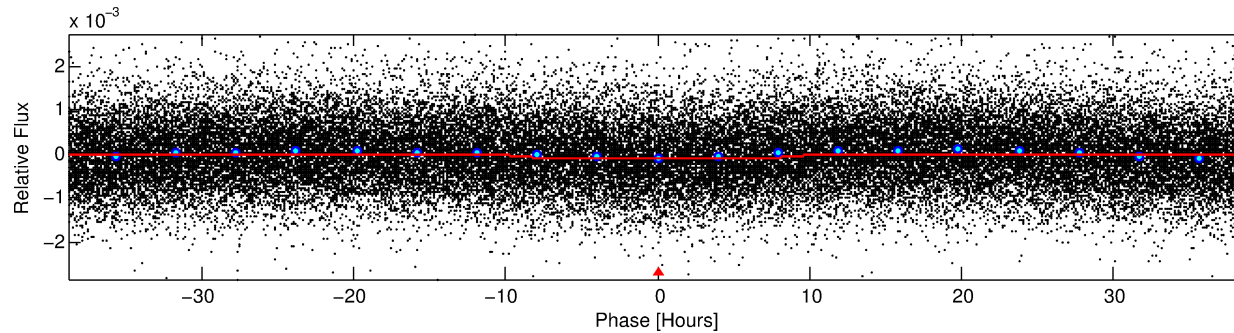
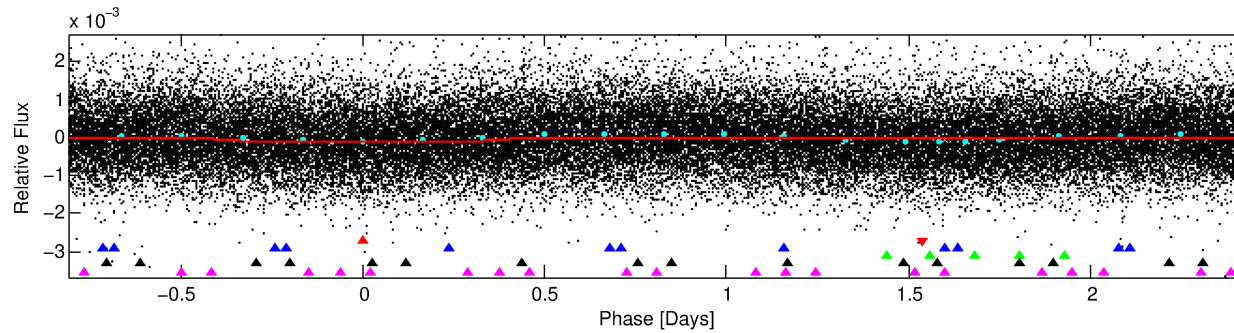
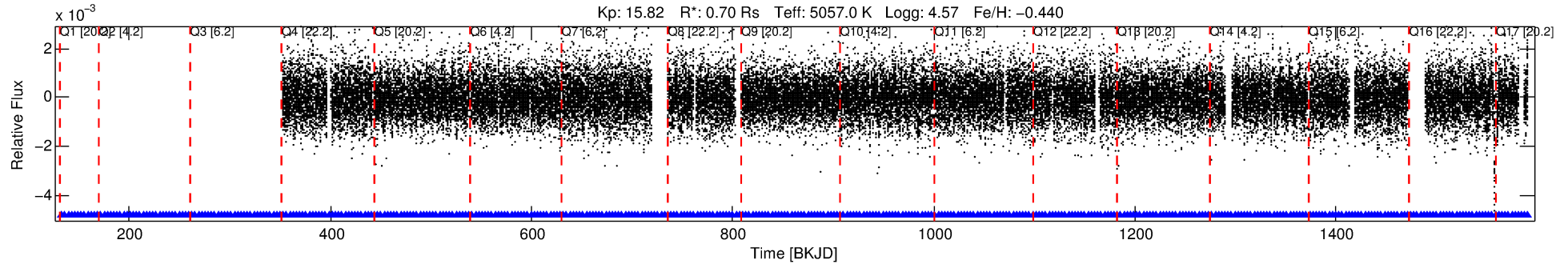
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006801692-01

No Significant Match Found

DV One-Page Summary

KIC: 6801692 Candidate: 1 of 5 Period: 3.240 d



DV Fit Results:

Period = 3.23964 [0.00007] d
Epoch = 133.0396 [0.0148] BKJD
Rp/R* = 0.0095 [0.0079]
a/R* = 1.37 [1.97]
b = 0.32 [8.86]
Seff = 205.20 [39.07]
Teq = 965 [46] K
Rp = 0.73 [0.61] Re
a = 0.0376 [0.0033] AU
Ag = 142.92 [238.96] [0.59 σ]
Teffp = 5159 [2157] K [1.94 σ]

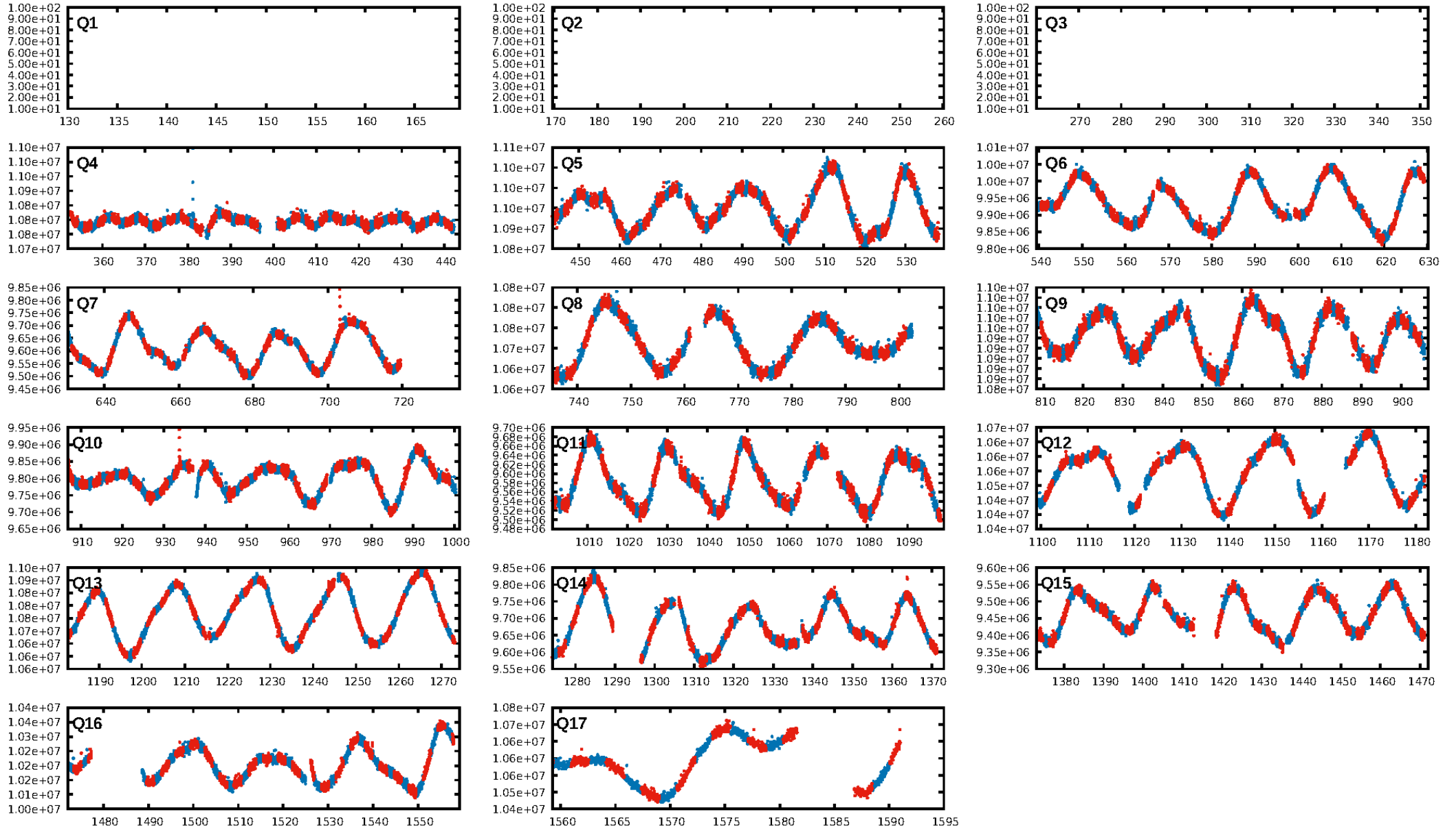
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [79.30 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.30e-10
RollingBand-fgt: 1.00 [355/355]
GhostDiagnostic-chr: 0.7207
Centroid-sig: 52.4%
Centroid-so: 0.927 arcsec [0.81 σ]
OotOffset-rm: 0.836 arcsec [1.37 σ]
KicOffset-rm: 0.873 arcsec [1.44 σ]
OotOffset-st: 2/2/3/3 [10]
KicOffset-st: 2/2/3/3 [10]
DiffImageQuality-fgm: 0.60 [6/10]
DiffImageOverlap-fno: 1.00 [14/14]

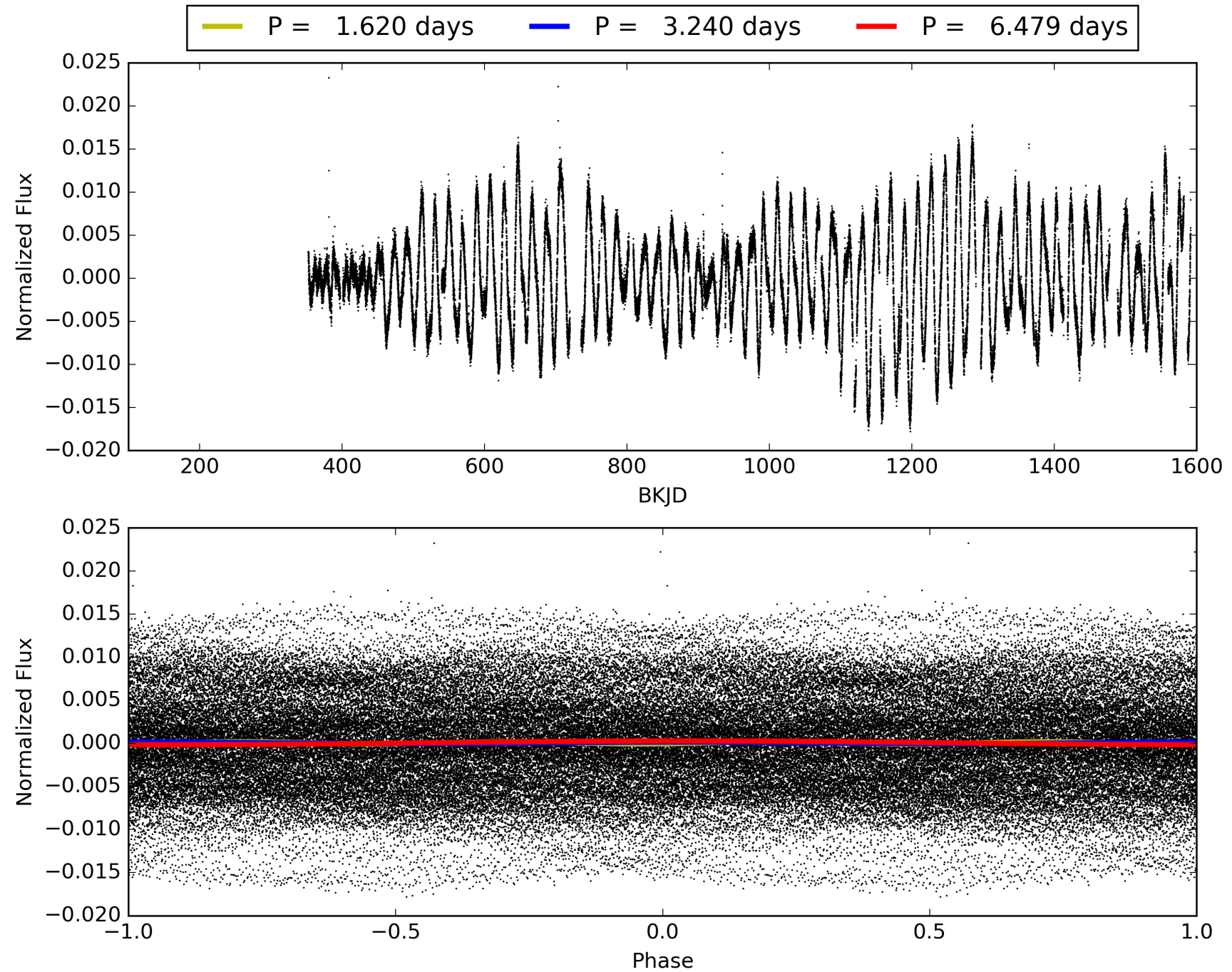
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 10:30:20 Z

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

TCE 006801692-01, PDC Light Curves

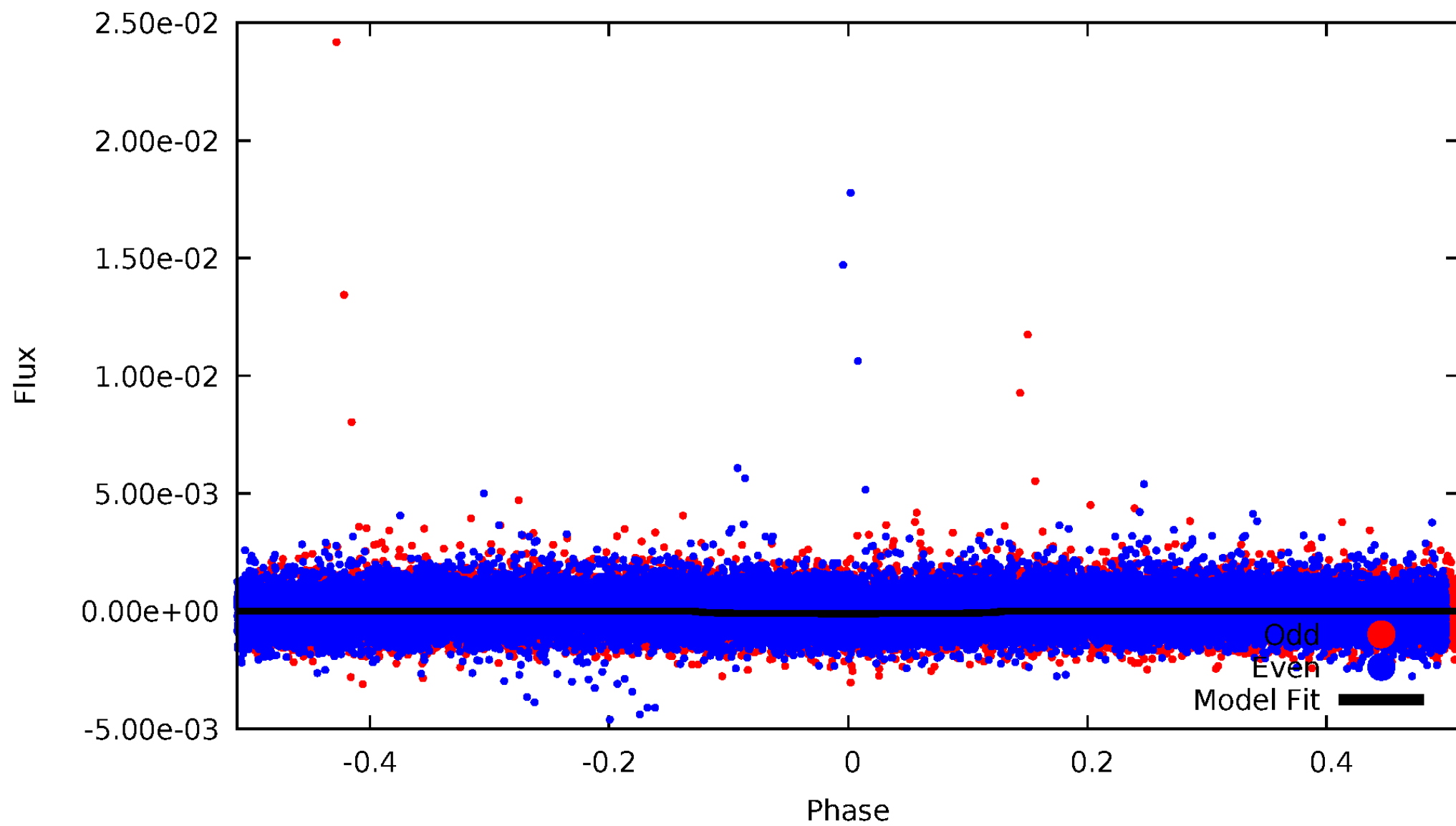


TCE 006801692-01



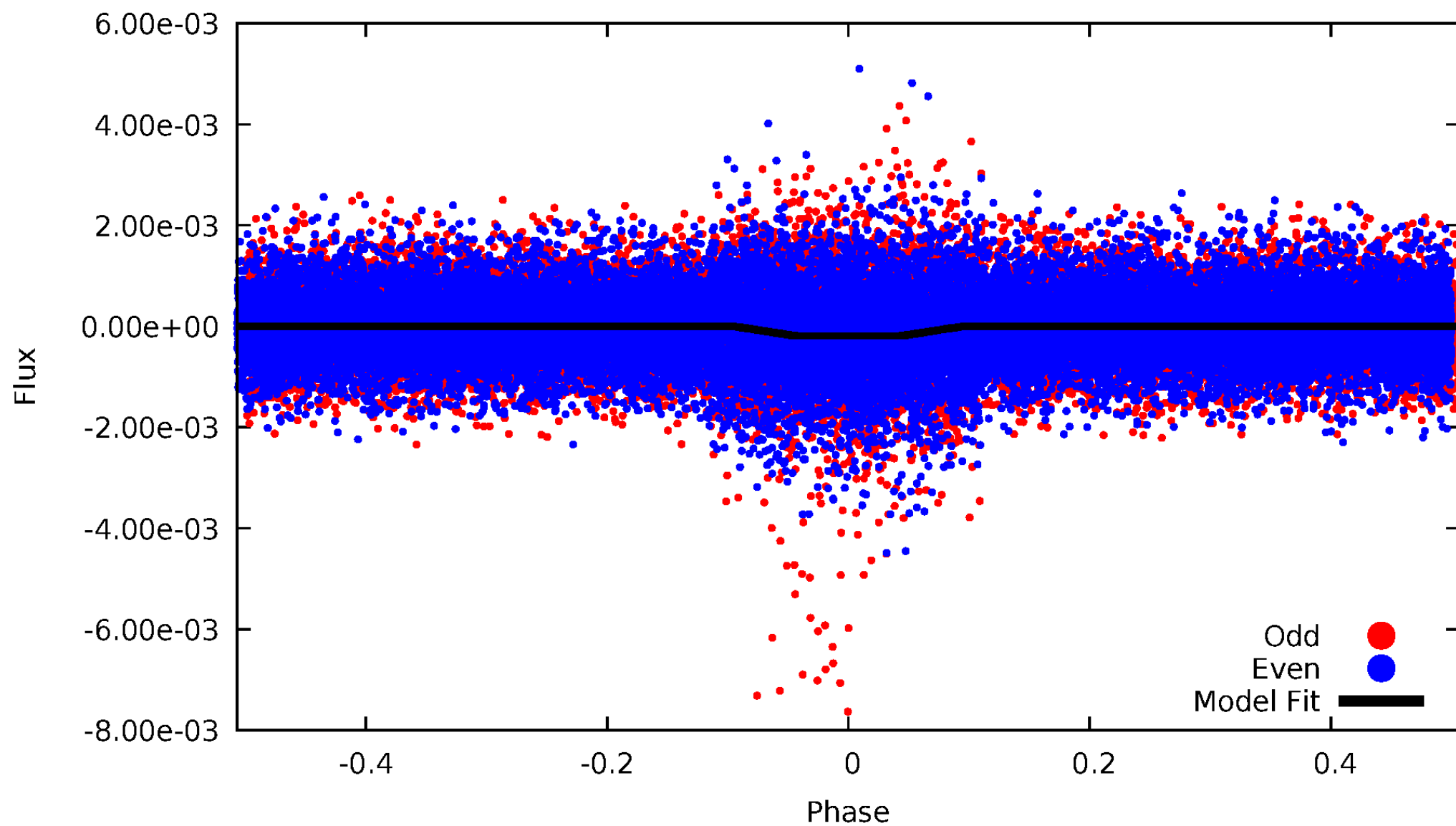
DV Odd/Even

TCE 006801692-01



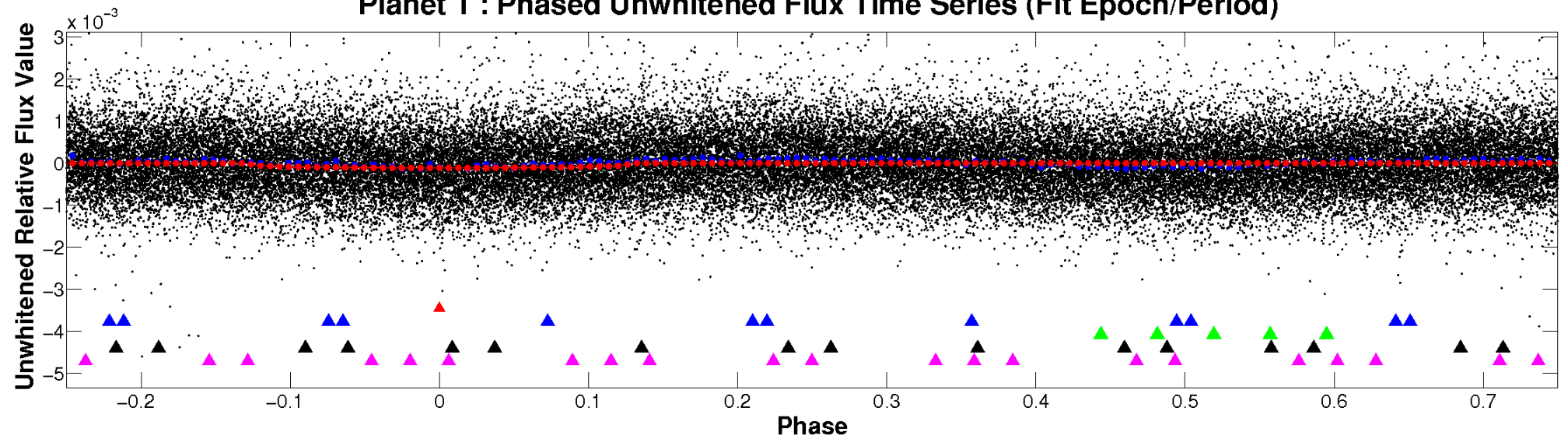
ALT Odd/Even

TCE 006801692-01

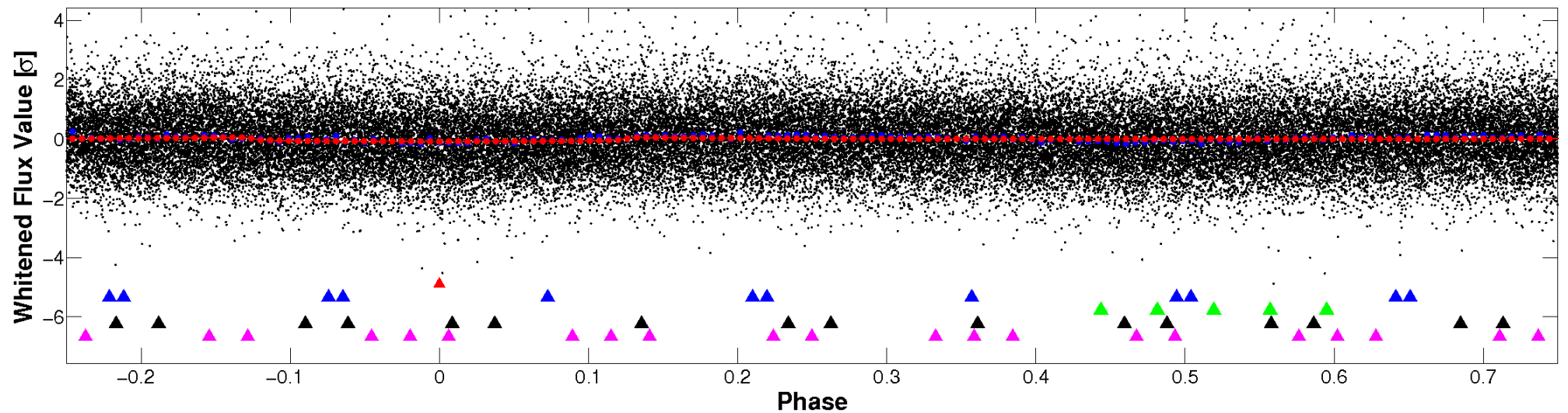


Non-Whitened Vs. Whitened Light Curve

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

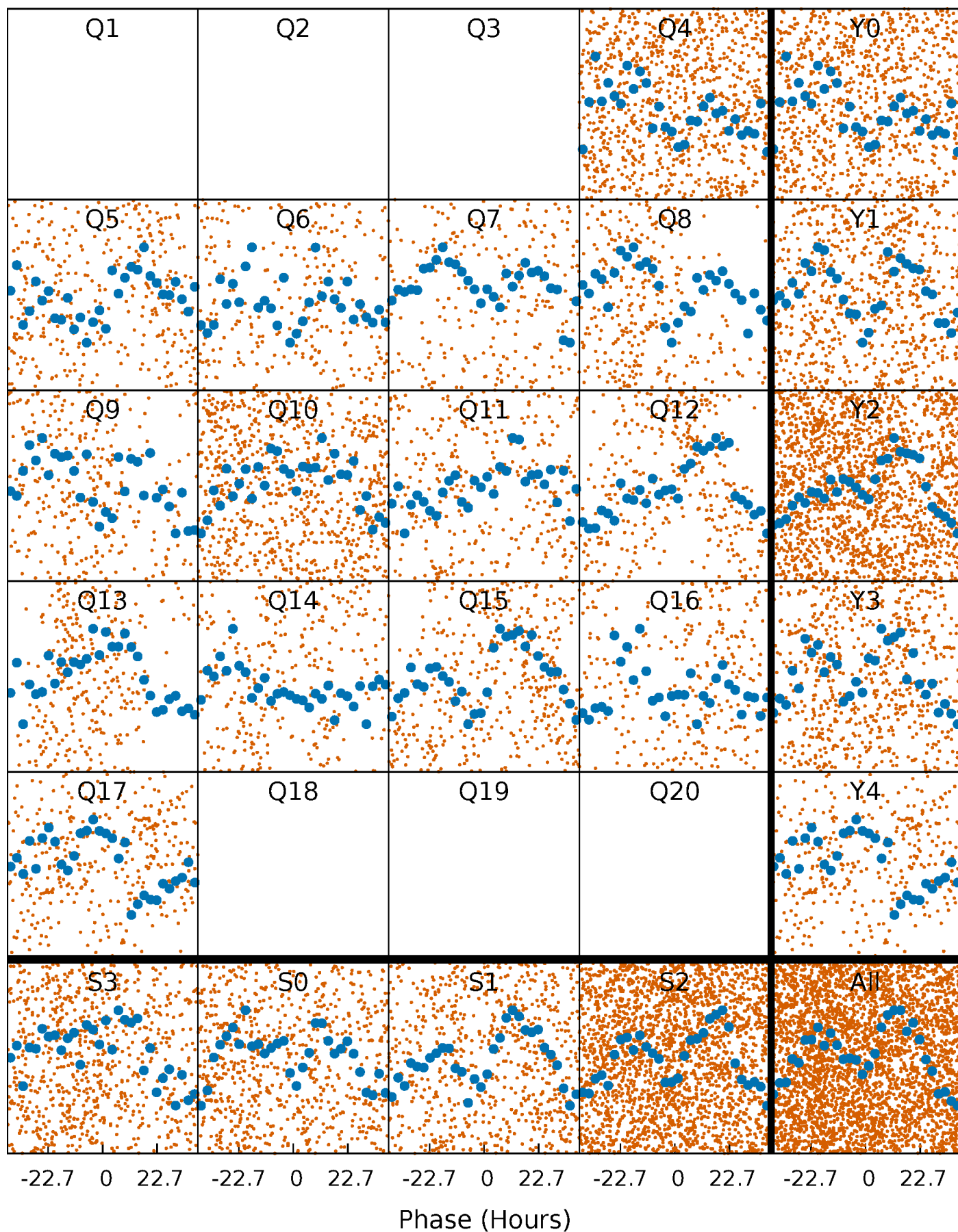


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



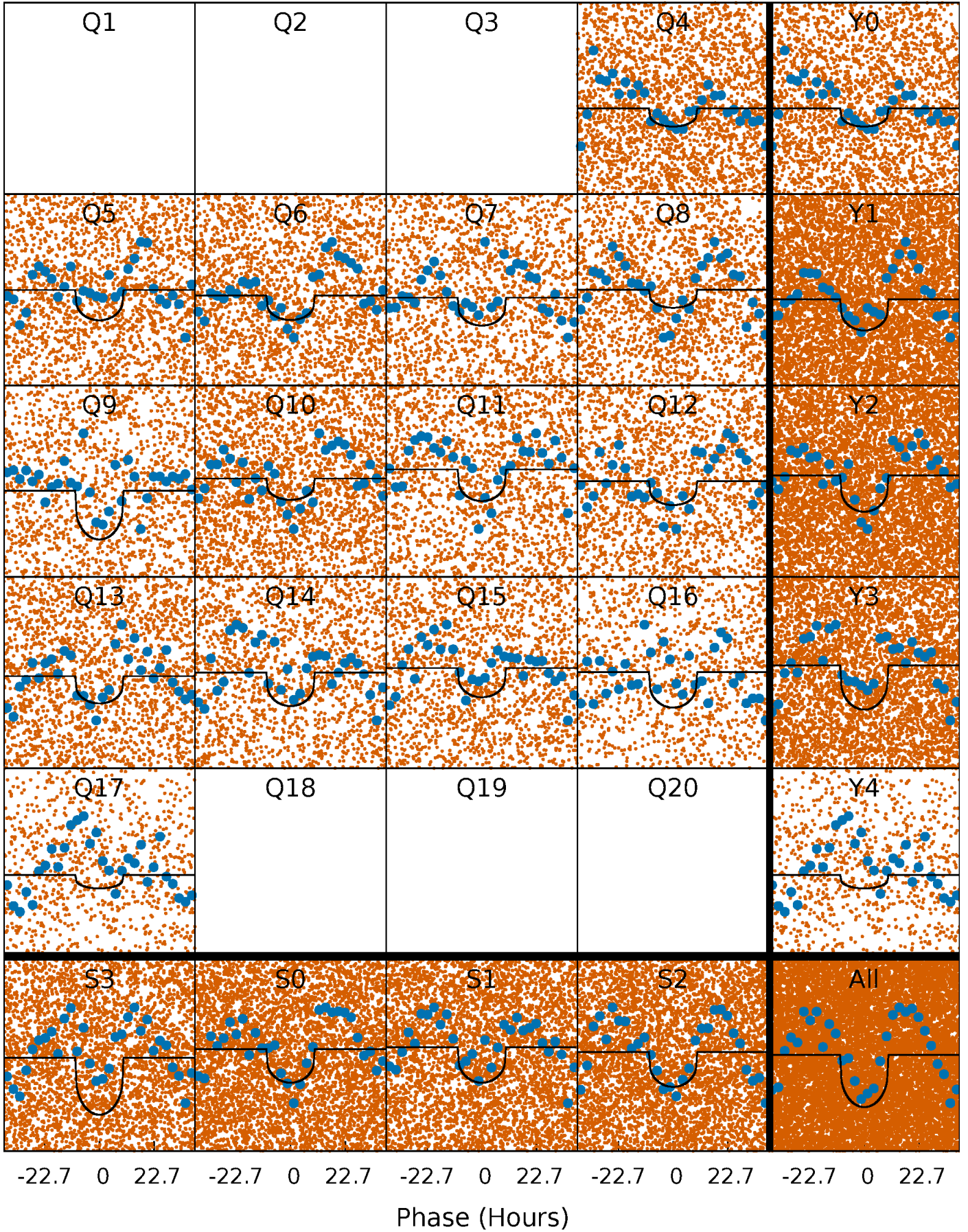
PDC Quarter-Phased Transit Curves

TCE 006801692-01 P= 3.239642 Days $T_0=133.039603$ (BKJD)



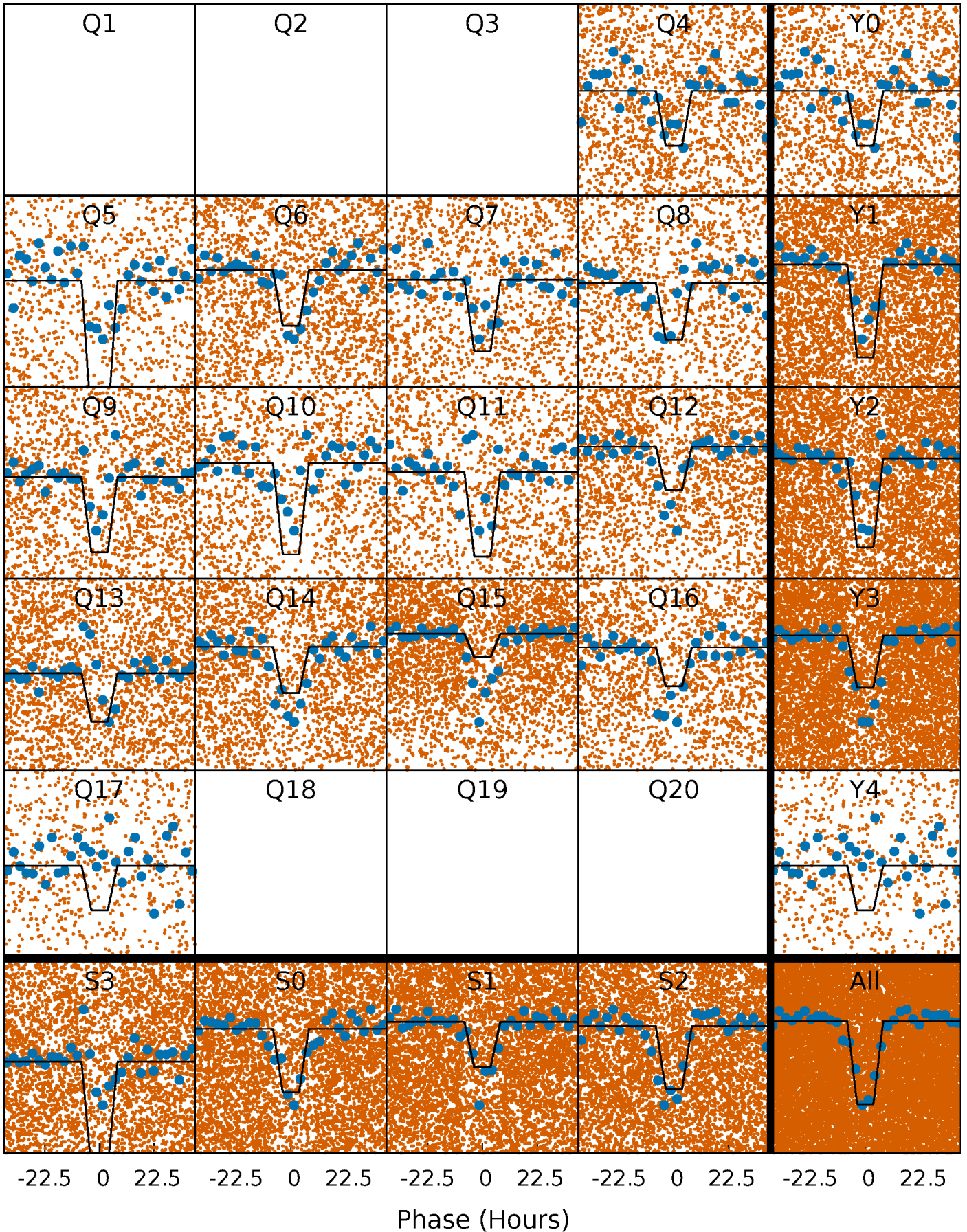
DV Quarter-Phased Transit Curves

TCE 006801692-01 P= 3.239642 Days $T_0=133.039603$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

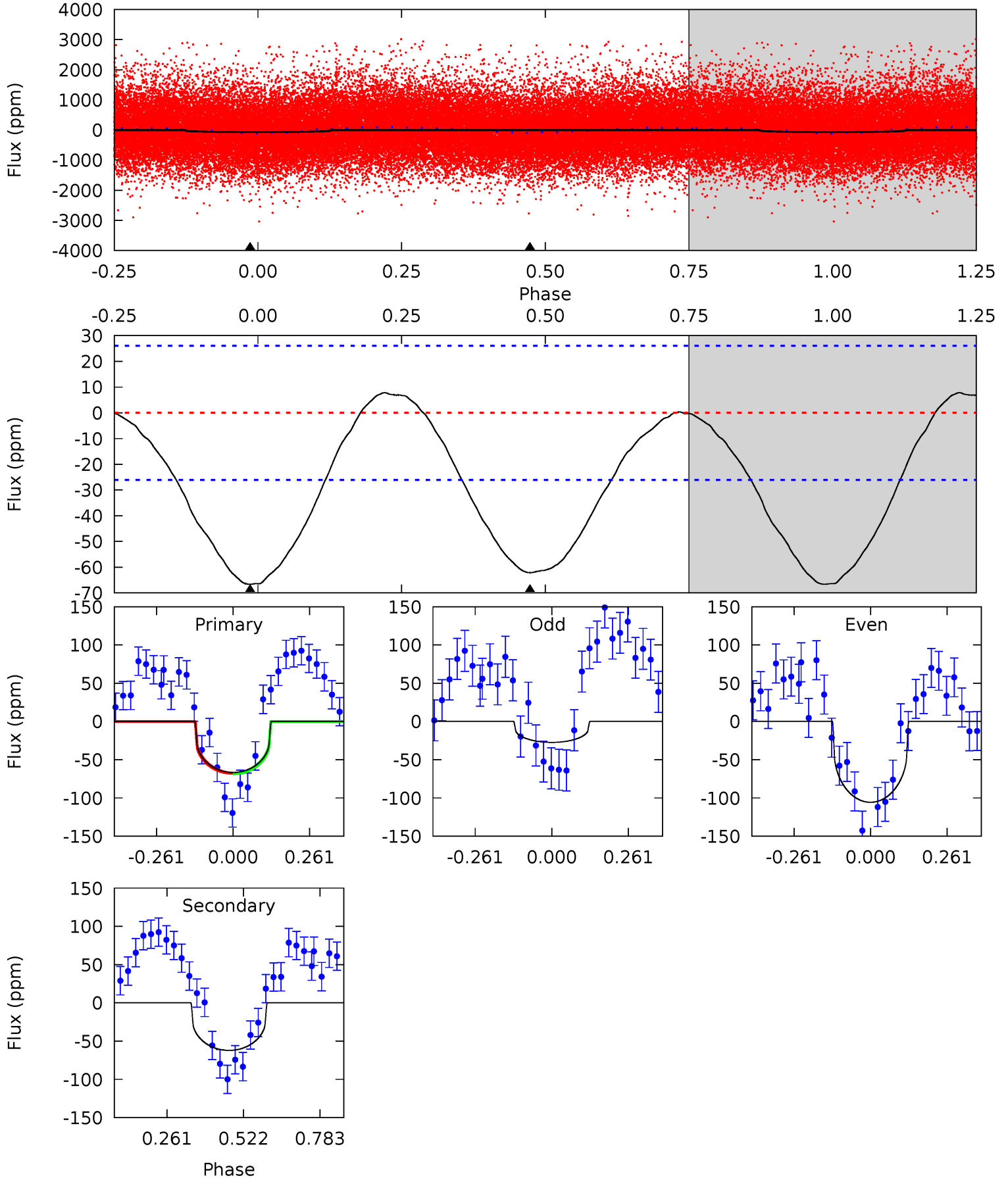
TCE 006801692-01 P= 3.239326 Days $T_0=133.112546$ (BKJD)



DV Model-Shift Uniqueness Test

006801692-01, P = 3.239642 Days, E = 133.039603 Days

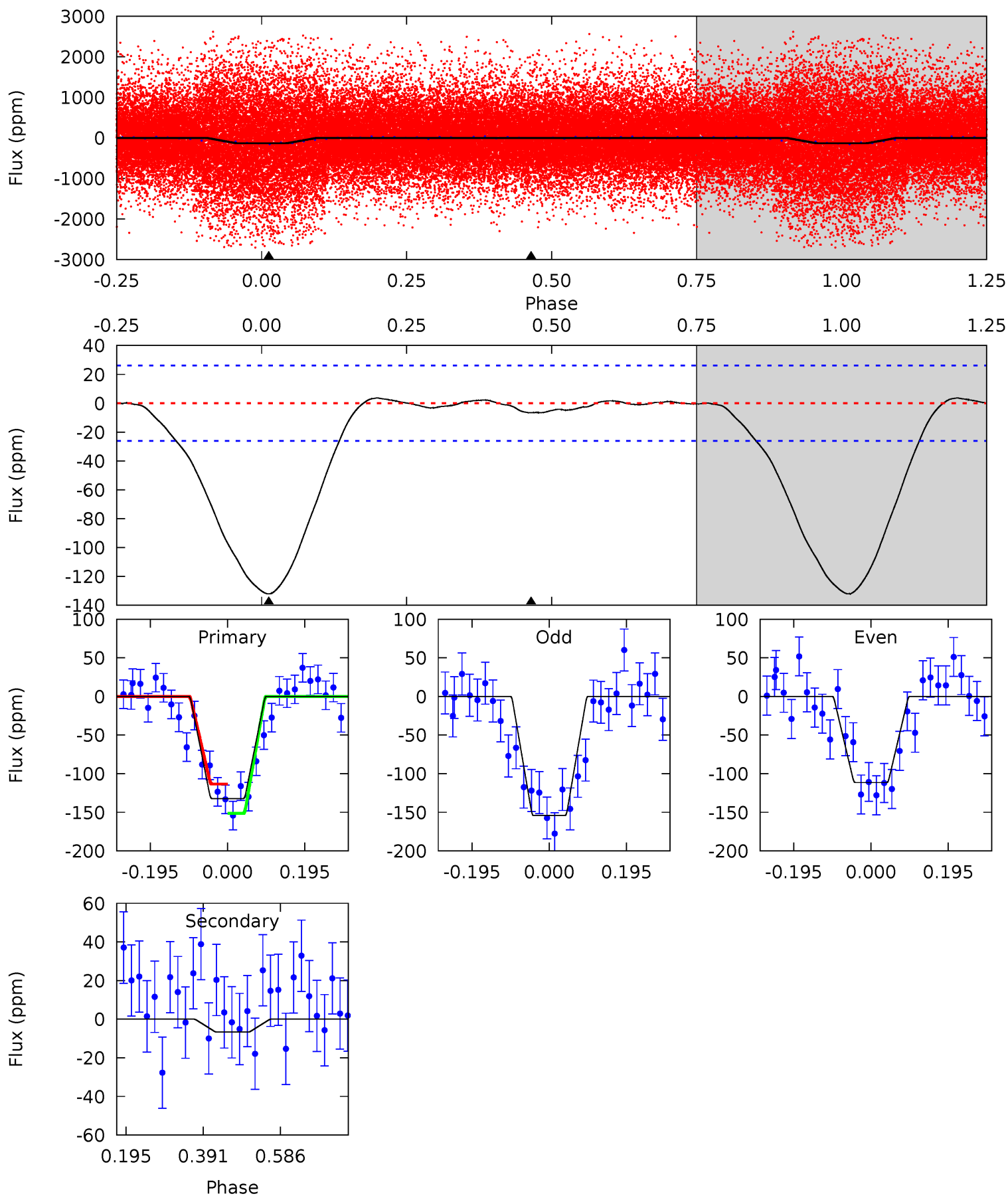
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.1	10.4	0	0	4.36	1.12	0.67	11.1	11.1	10.4	10.4	6.63	0.61	0.10	0.06



Alt Model-Shift Uniqueness Test

006801692-01, P = 3.239326 Days, E = 133.112546 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.4	1.12	0	0	4.42	1.29	0.37	22.4	22.4	1.12	1.12	3.59	2.62	0.03	3.21



Stellar Parameters For KIC 006801692

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5057^{+176}_{-176}	$4.573^{+0.072}_{-0.048}$	$-0.440^{+0.300}_{-0.300}$	$0.704^{+0.072}_{-0.072}$	$0.676^{+0.093}_{-0.043}$	$2.732^{+0.917}_{-0.479}$
	+3%/-3%	+2%/-1%	+68%/-68%	+10%/-10%	+14%/-6%	+34%/-18%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006801692-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-62 ± 6	$0.81^{+0.55}_{-0.53}$	1343^{+59}_{-57}	4502^{+2779}_{-803}	75^{+495}_{-49}
Alt.	-7 ± 6	$1.08^{+0.63}_{-0.53}$	1344^{+52}_{-60}	2777^{+768}_{-781}	$4.004^{+14.390}_{-3.479}$

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

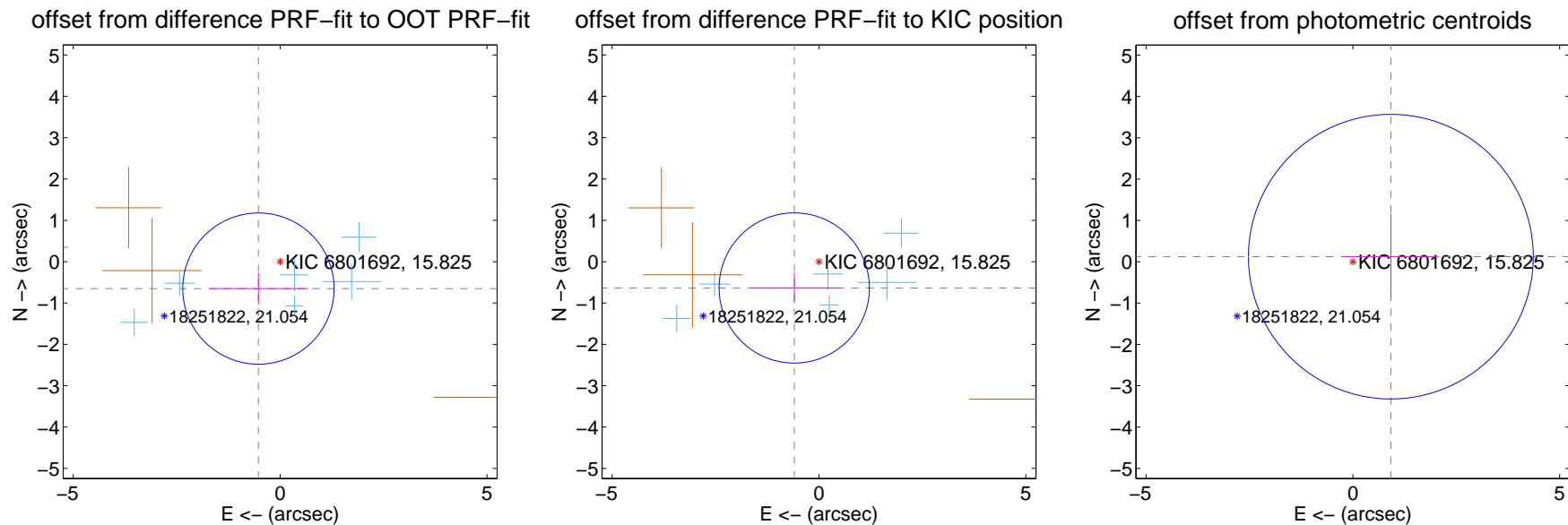
DV Centroid Data

Supplemental centroid analysis for 006801692-01. Kepler magnitude: 15.82. Transit SNR 8.88

There are 6 quarters with good PRF difference image offsets

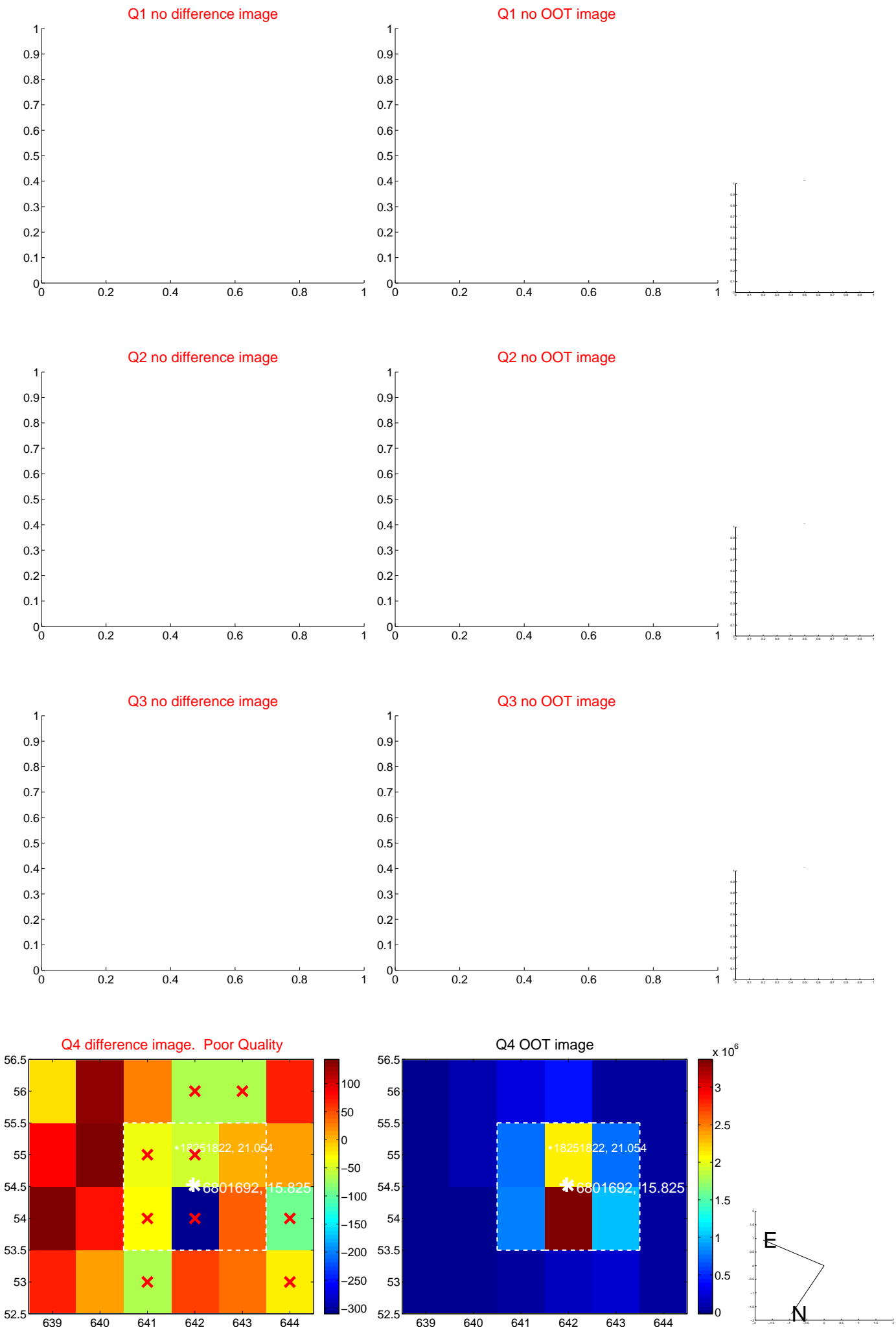
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.836 ± 0.610	1.37	0.524 ± 1.193	-0.651 ± 0.379
PRF-fit source offset from KIC position	0.873 ± 0.606	1.44	0.598 ± 1.062	-0.636 ± 0.369
photometric centroid source offset	0.93 ± 1.15	0.81	-0.92 ± 1.15	0.12 ± 1.04

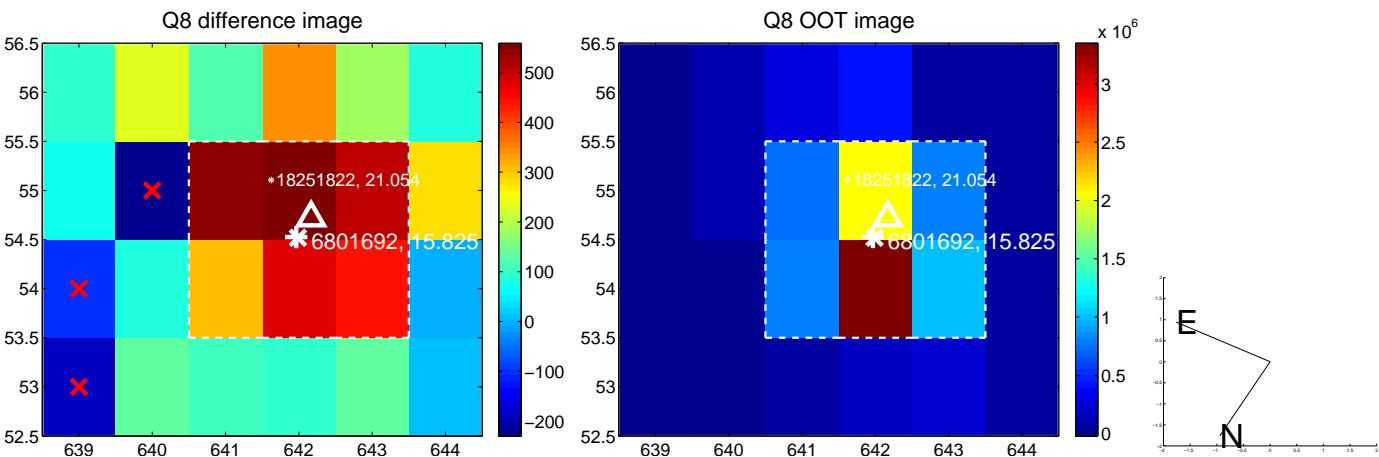
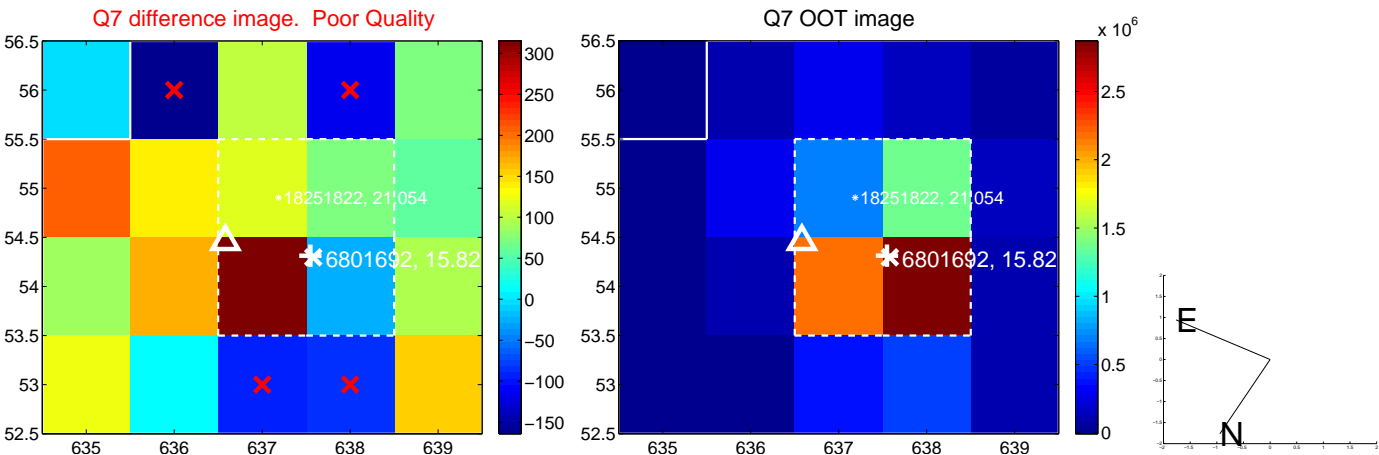
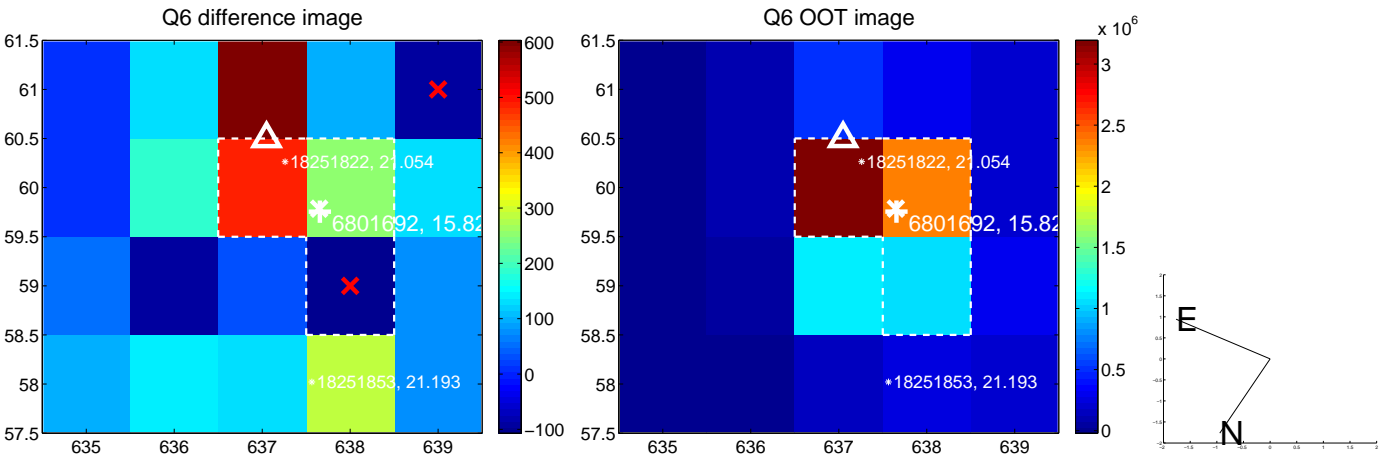
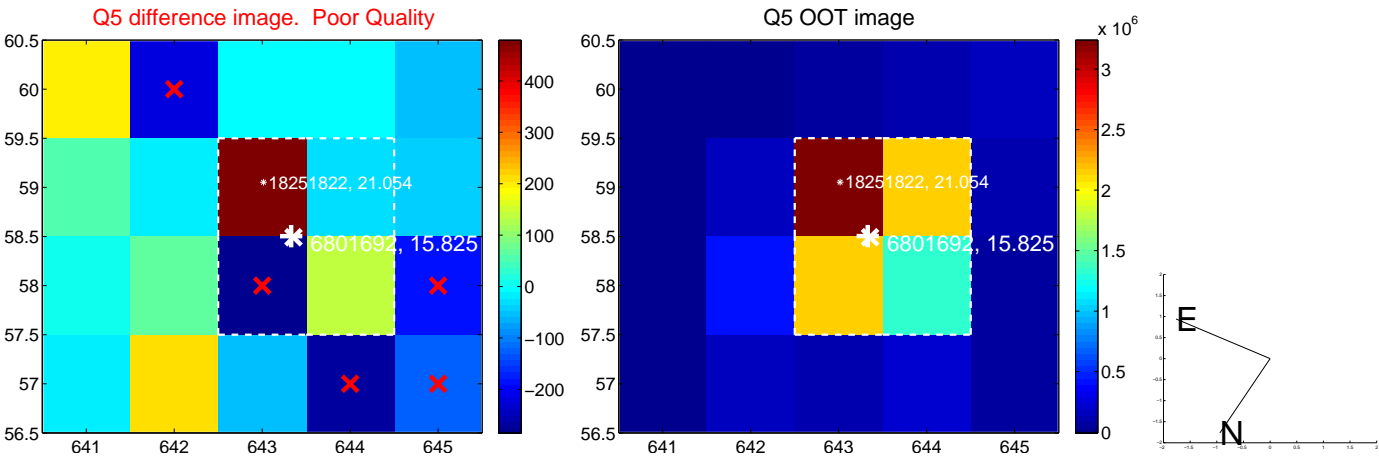


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

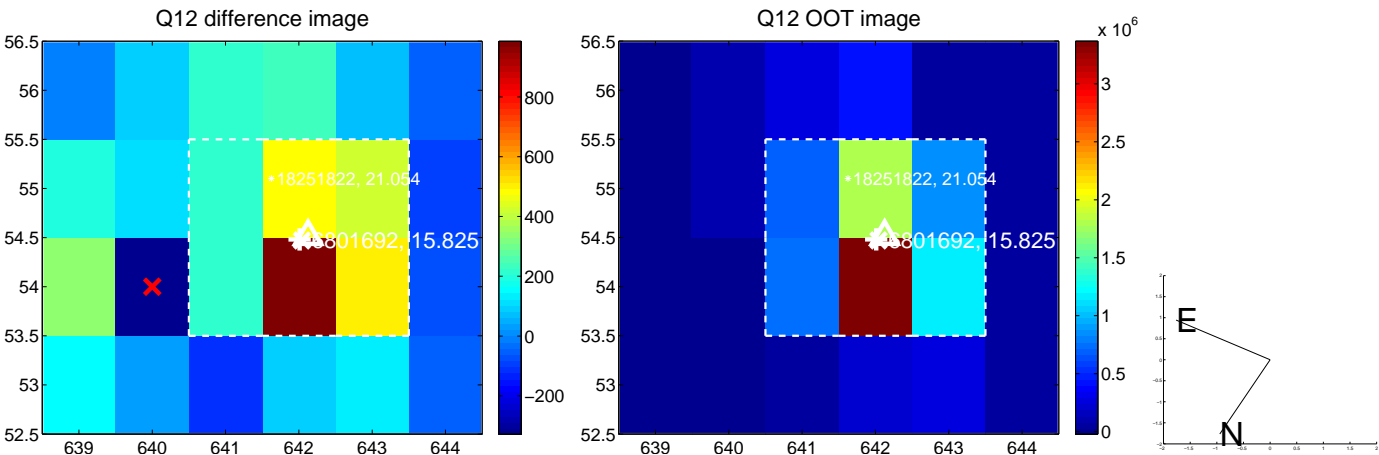
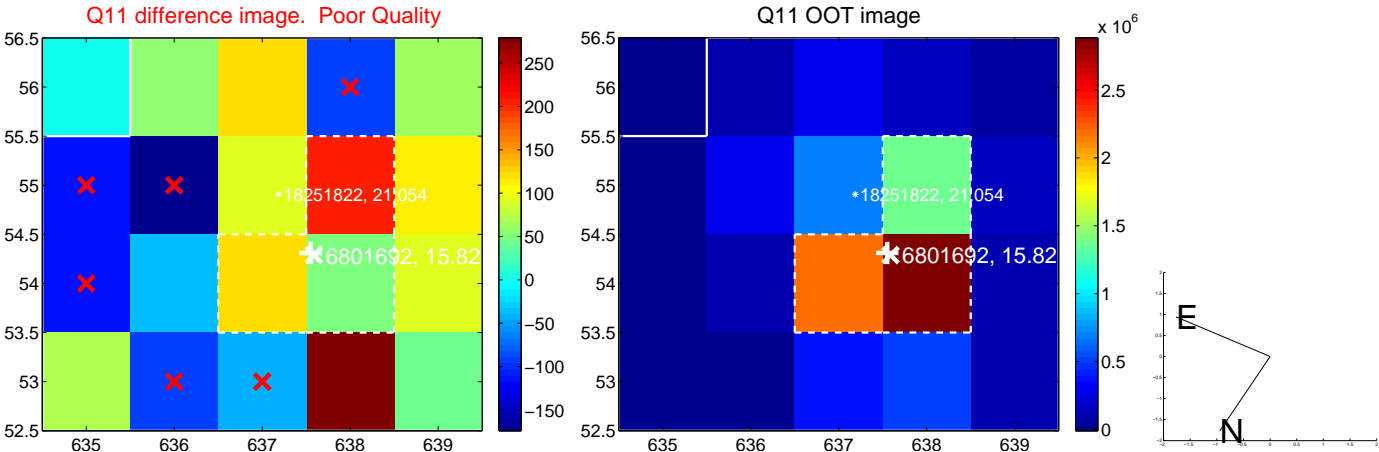
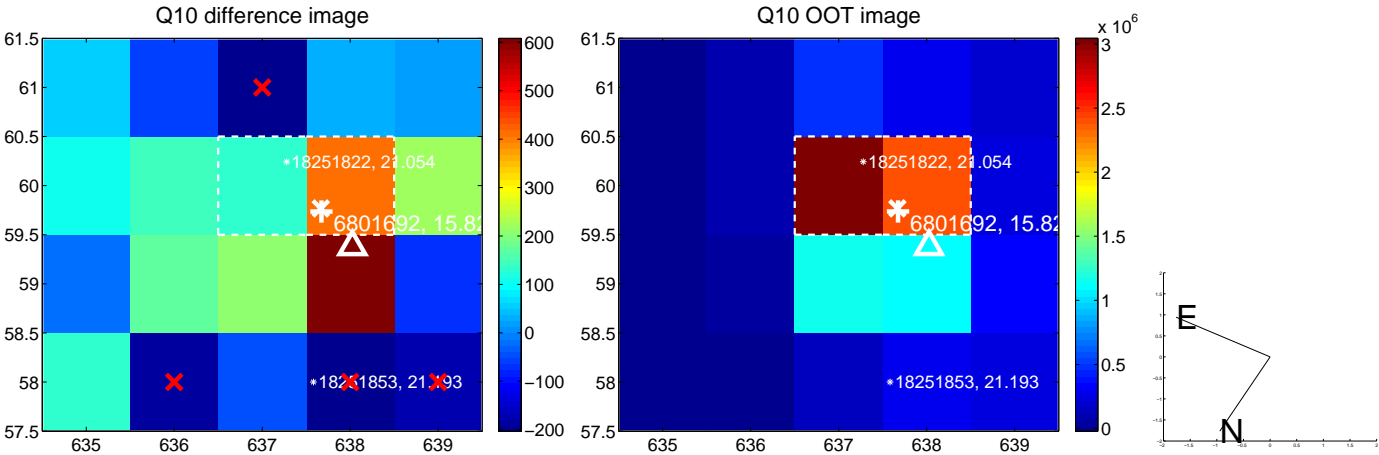
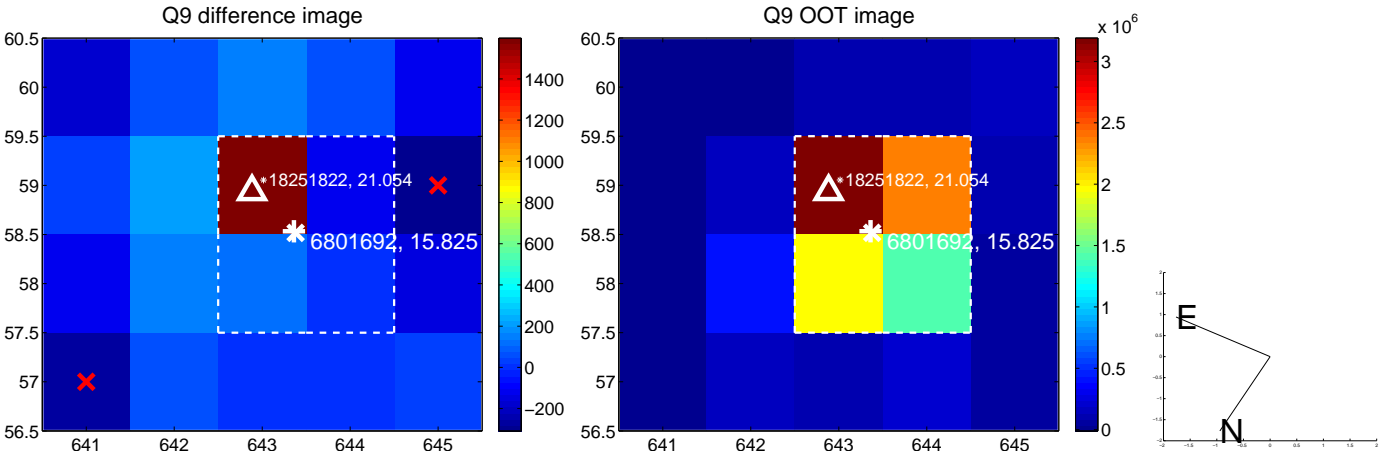
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



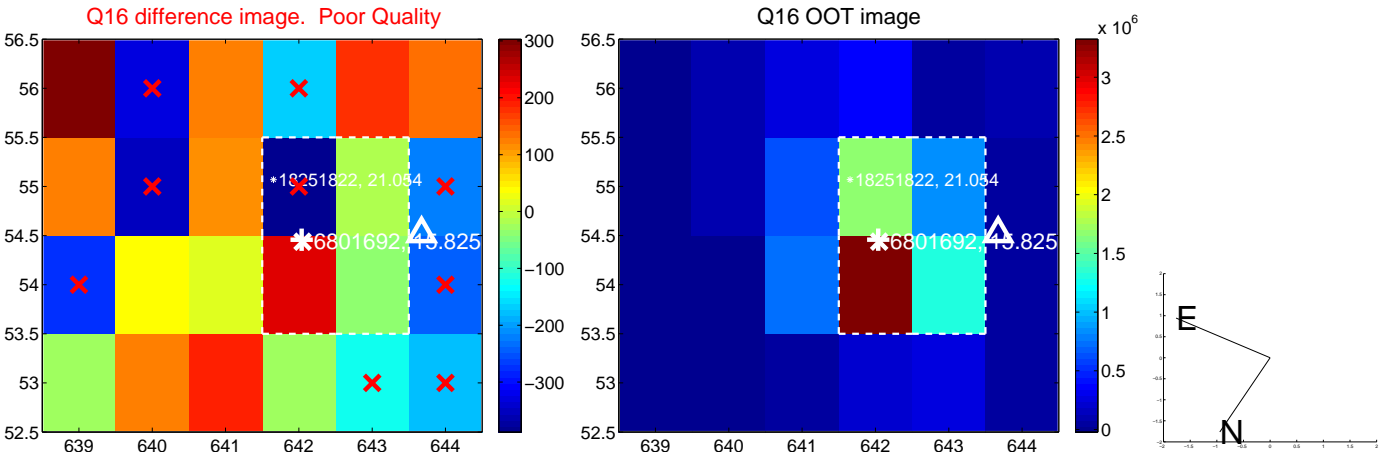
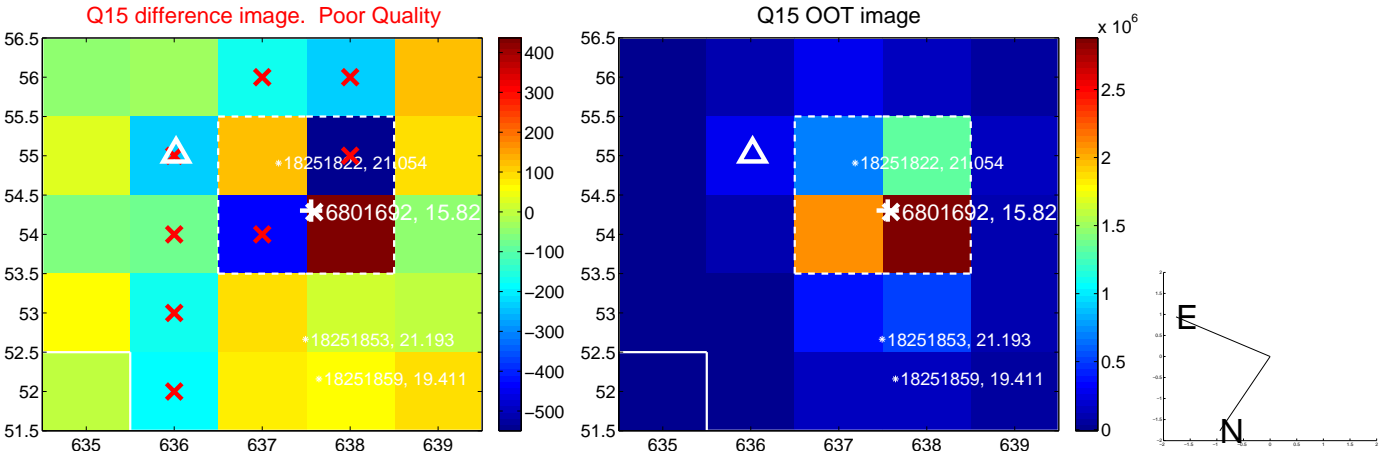
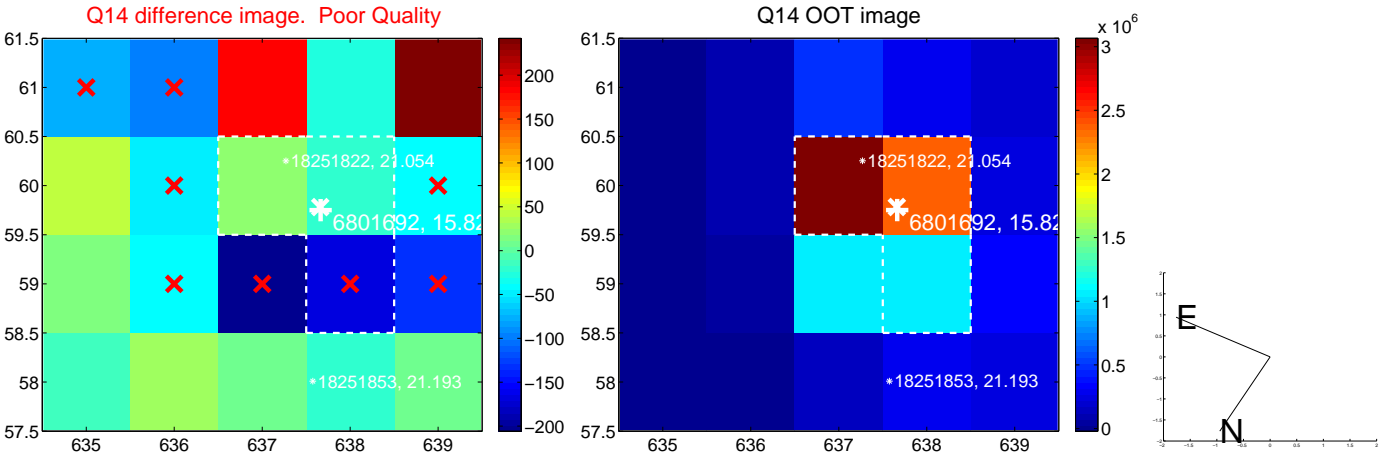
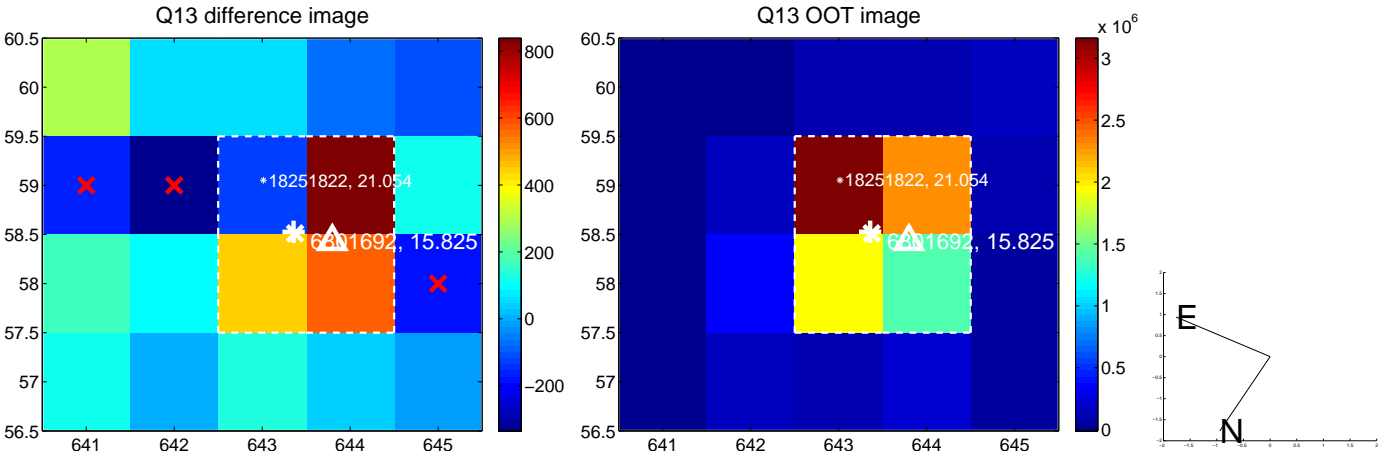
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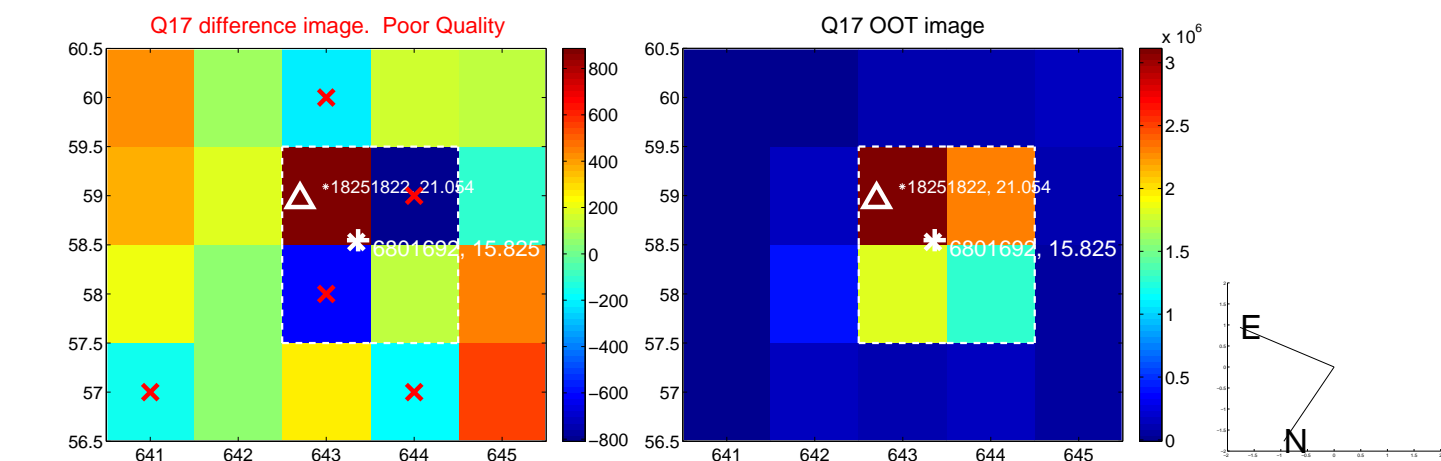
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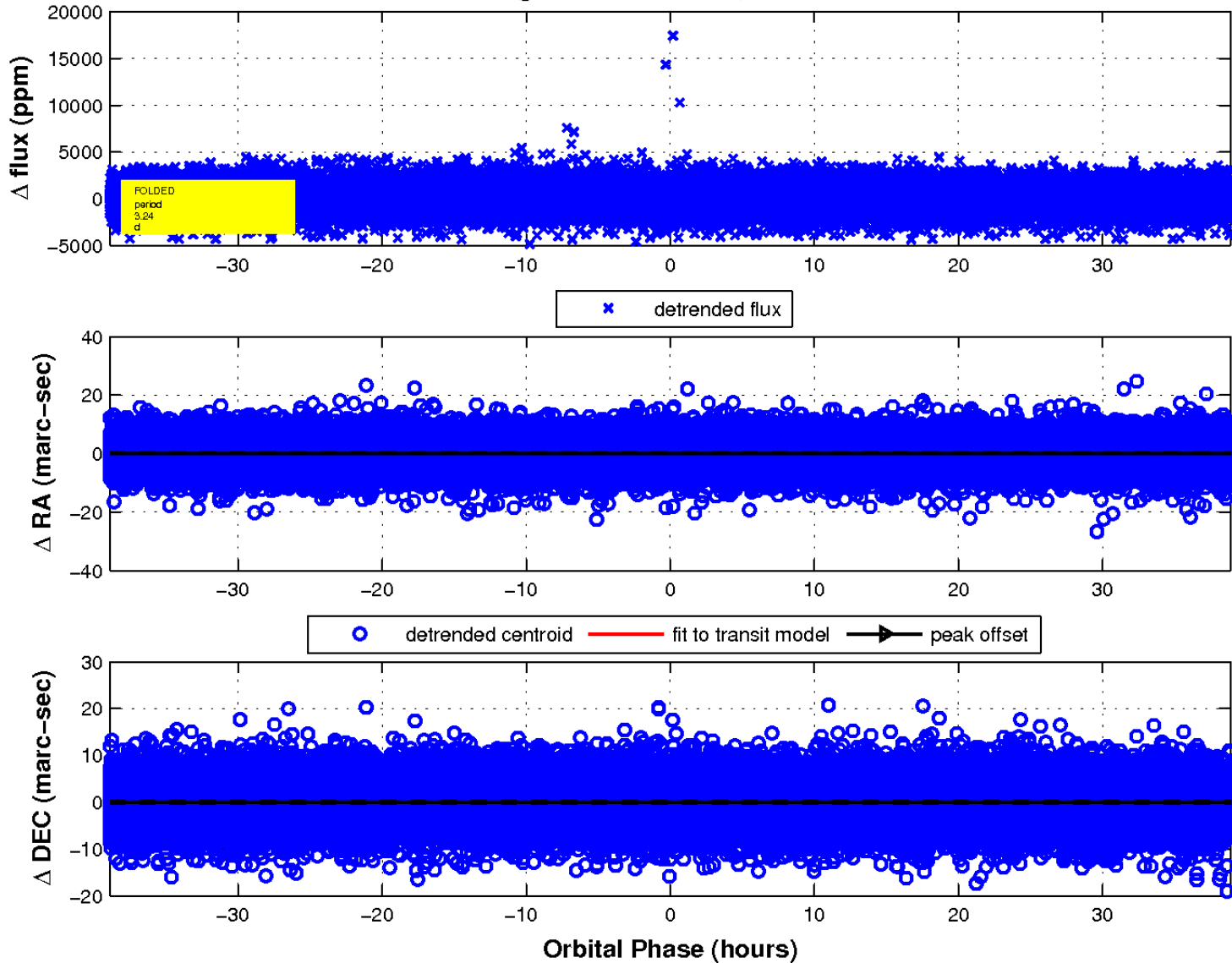
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



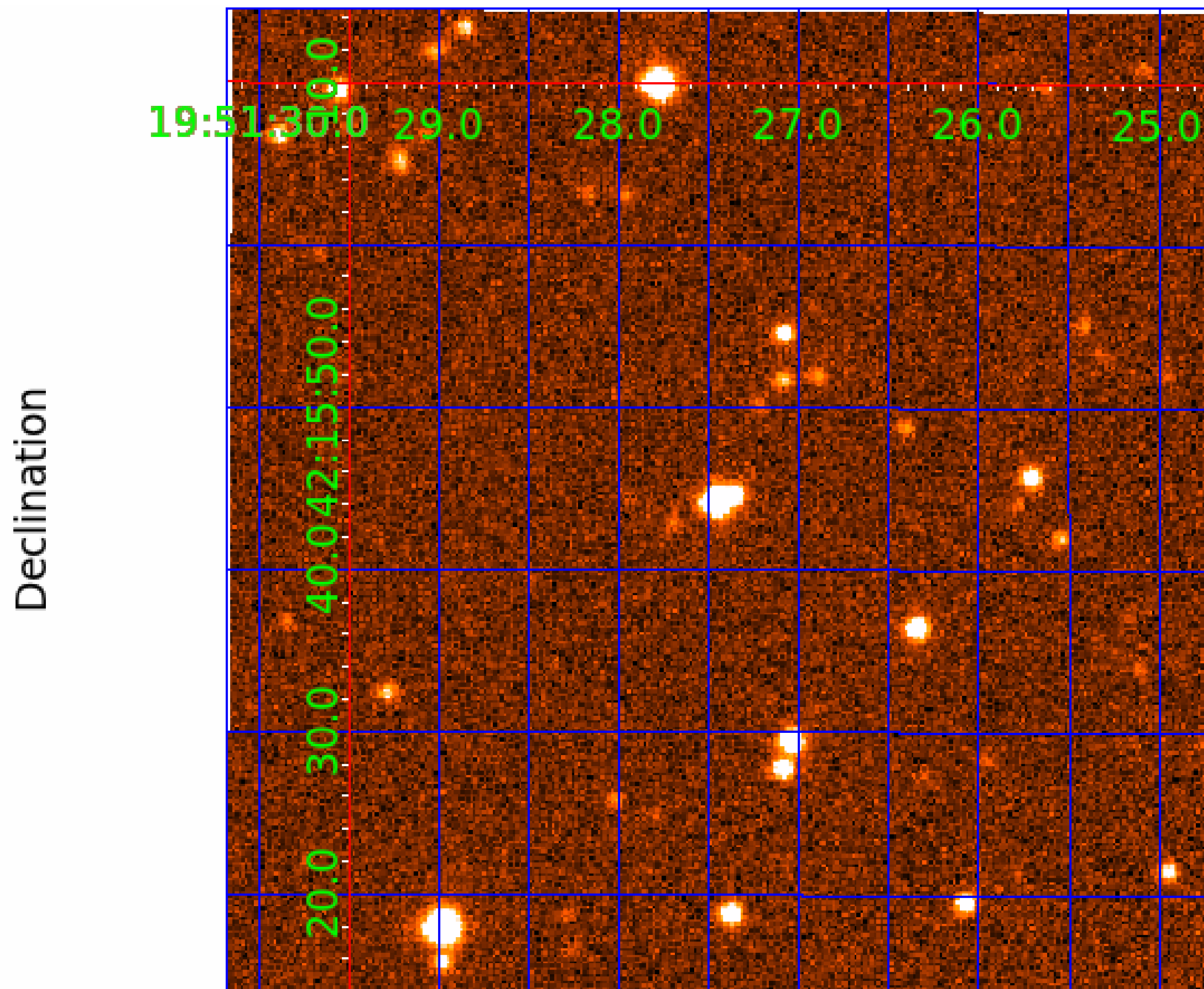
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 1 of 5



UKIRT Image



KIC 006801692

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})
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006801692-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—HALO_GHOST
006801692-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006801692-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
006801692-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_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.

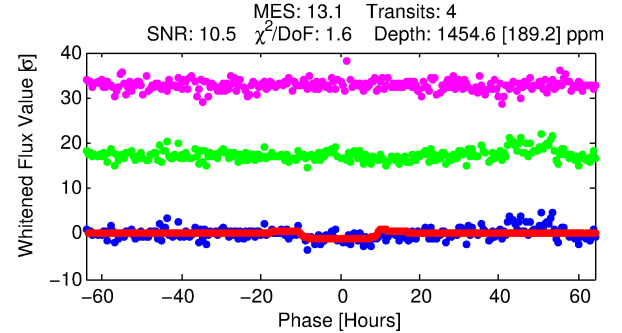
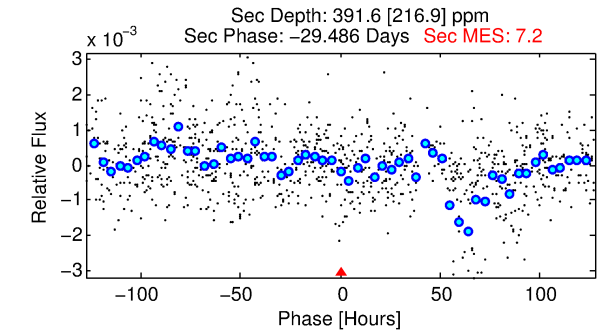
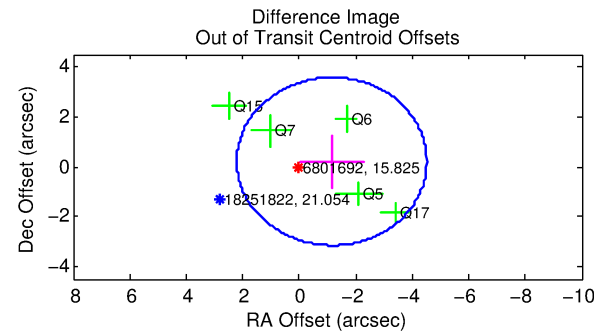
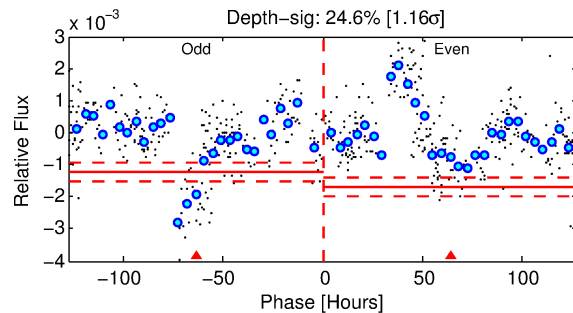
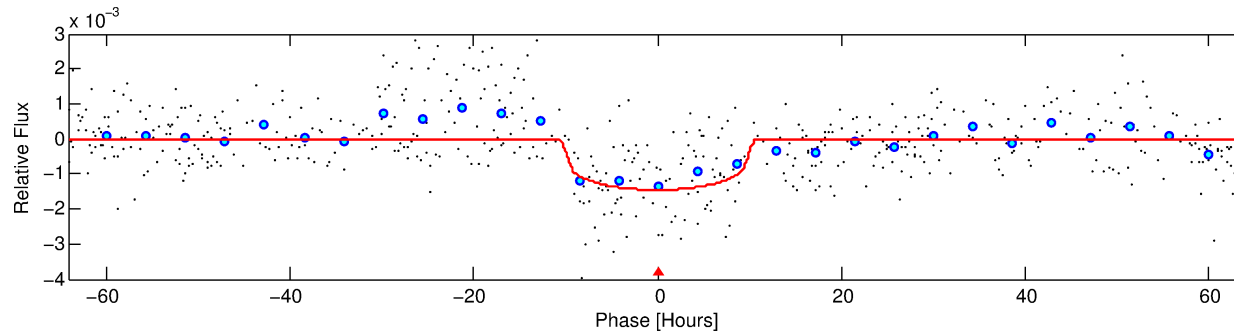
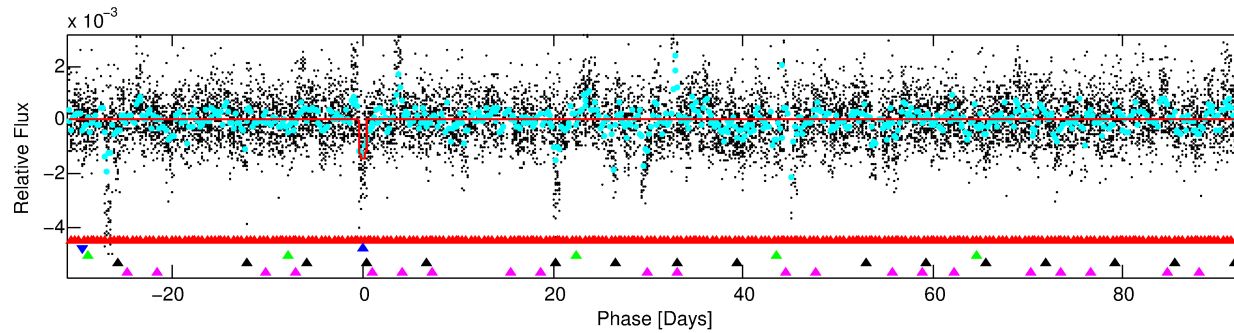
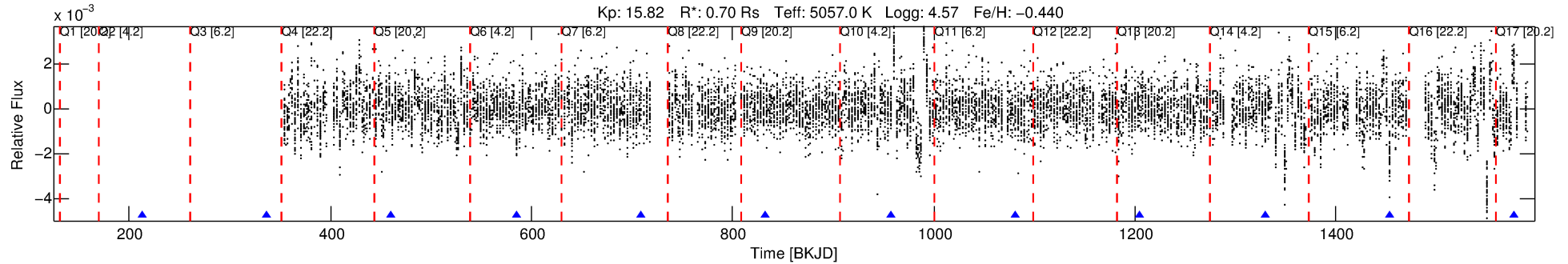
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006801692-02

No Significant Match Found

DV One-Page Summary

KIC: 6801692 Candidate: 2 of 5 Period: 124.028 d



DV Fit Results:

Period = 124.02754 [0.01755] d
Epoch = 212.9000 [0.1163] BKJD
Rp/R* = 0.0373 [0.0087]
a/R* = 33.80 [28.16]
b = 0.70 [0.60]
Seff = 1.59 [0.30]
Teq = 286 [14] K
Rp = 2.87 [0.73] Re
a = 0.4273 [0.0375] AU
Ag = 4790.14 [3525.37] [1.36 σ]
Teffp = 3683 [679] K [5.00 σ]

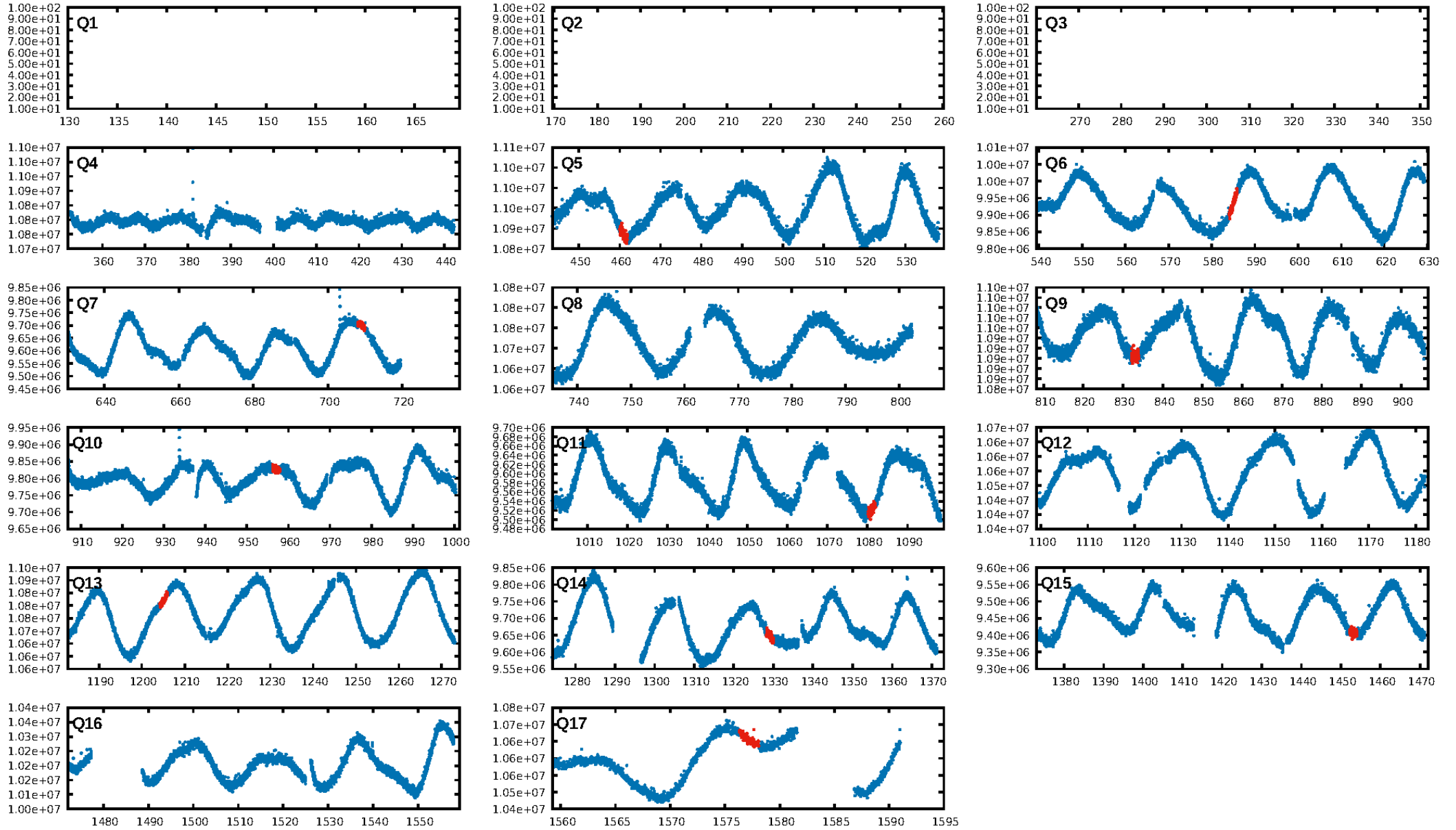
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [25.61 σ]
LongPeriod-sig: 100.0% [111.53 σ]
ModelChiSquare2-sig: 0.3%
ModelChiSquareGof-sig: 98.6%
Bootstrap-pfa: 1.63e-19
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.228
Centroid-sig: 93.8%
Centroid-so: 0.128 arcsec [0.25 σ]
OotOffset-rm: 1.170 arcsec [1.04 σ]
OotOffset-st: 1/2/0/2 [5]
KicOffset-rm: 1.176 arcsec [1.02 σ]
KicOffset-st: 1/2/0/2 [5]
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DiffImageOverlap-fno: 0.00 [0/9]

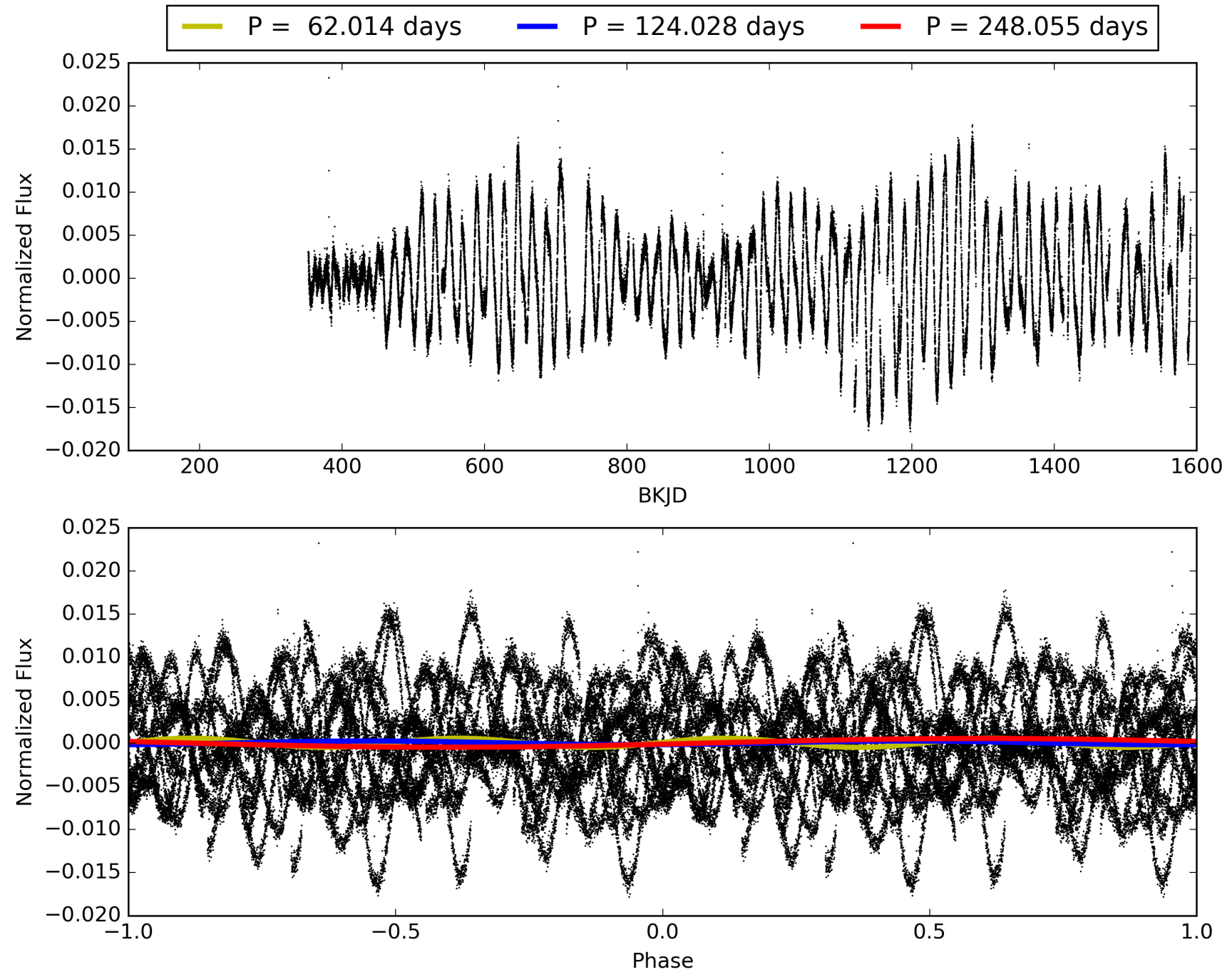
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006801692-02, PDC Light Curves

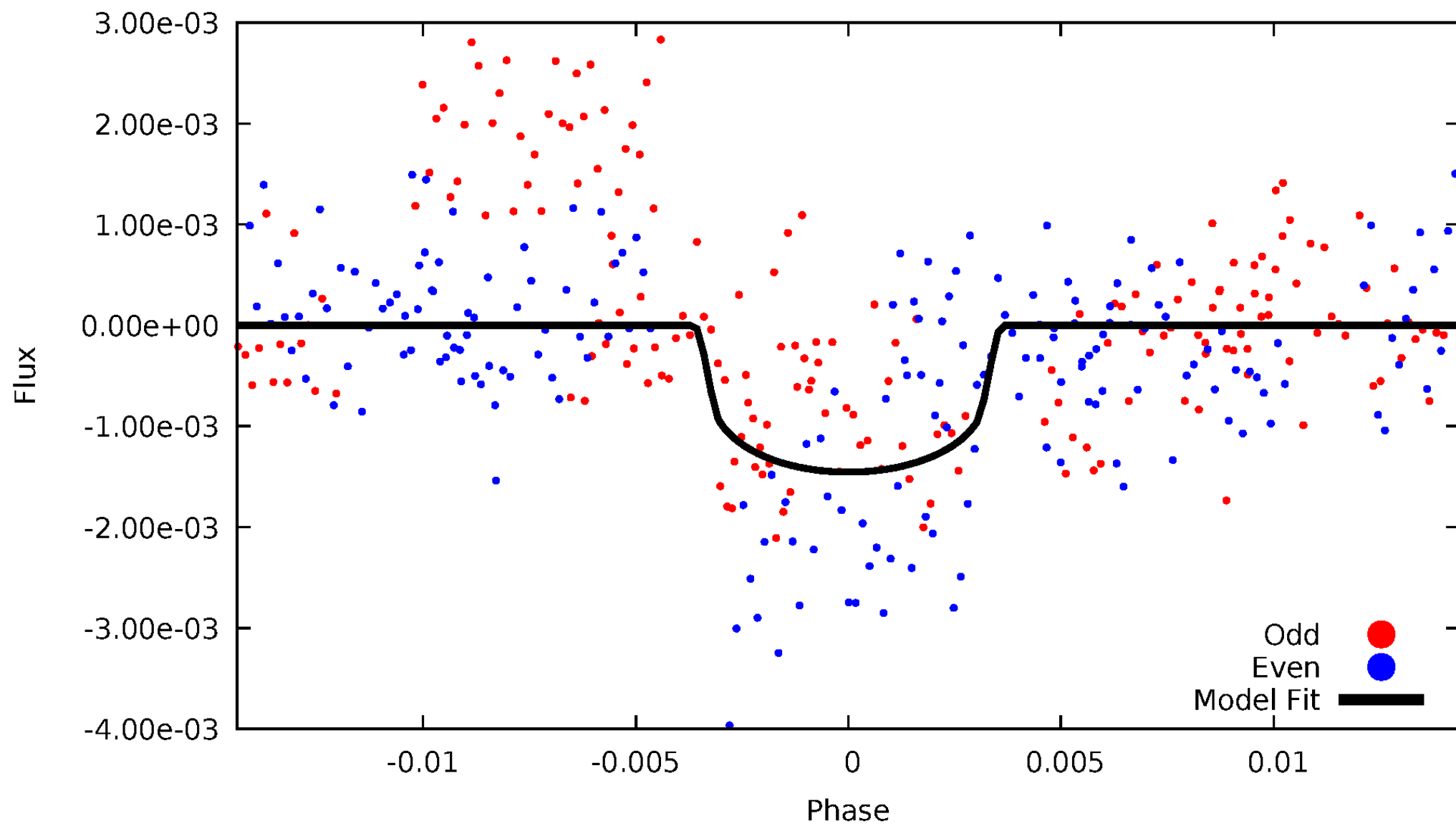


TCE 006801692-02



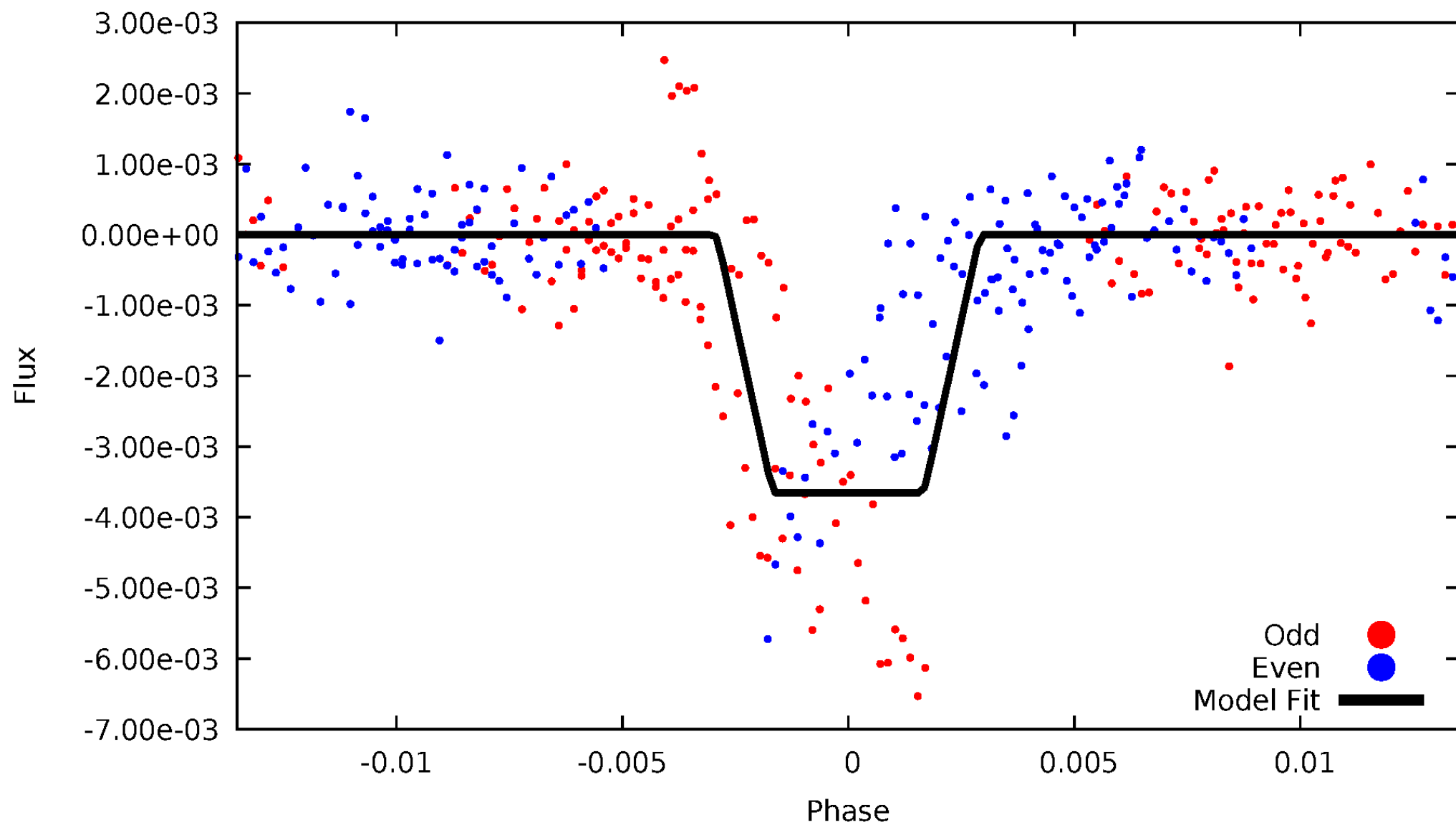
DV Odd/Even

TCE 006801692-02



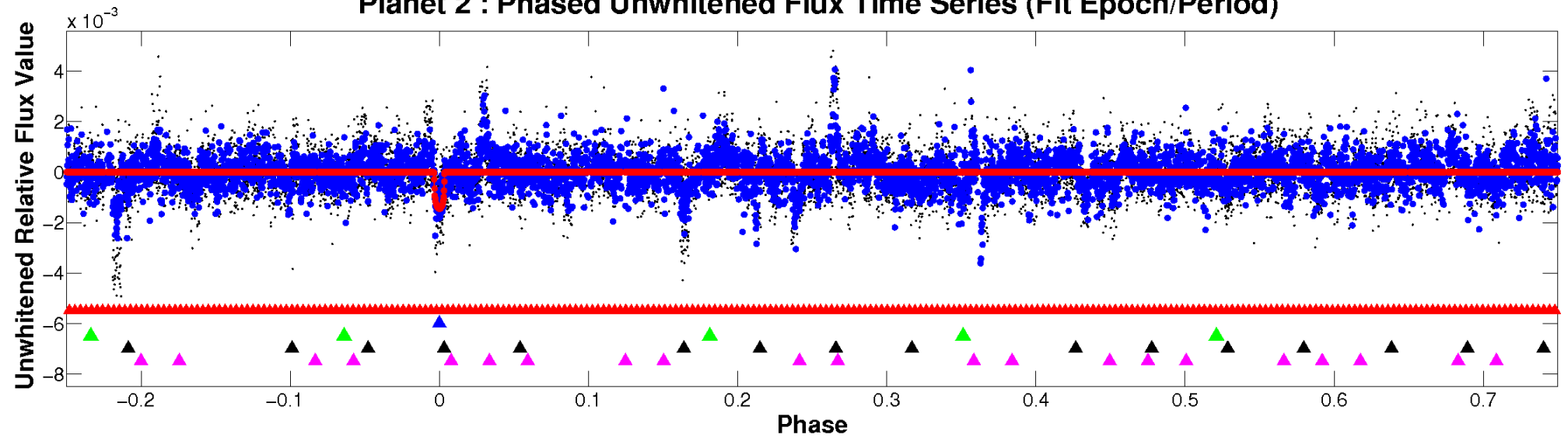
ALT Odd/Even

TCE 006801692-02

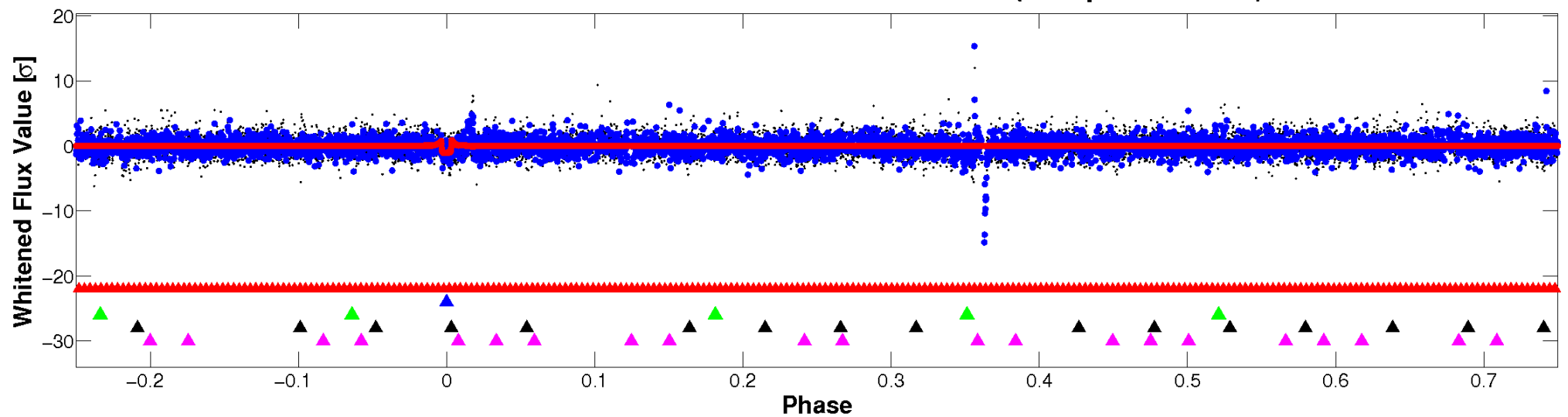


Non-Whitened Vs. Whitened Light Curve

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

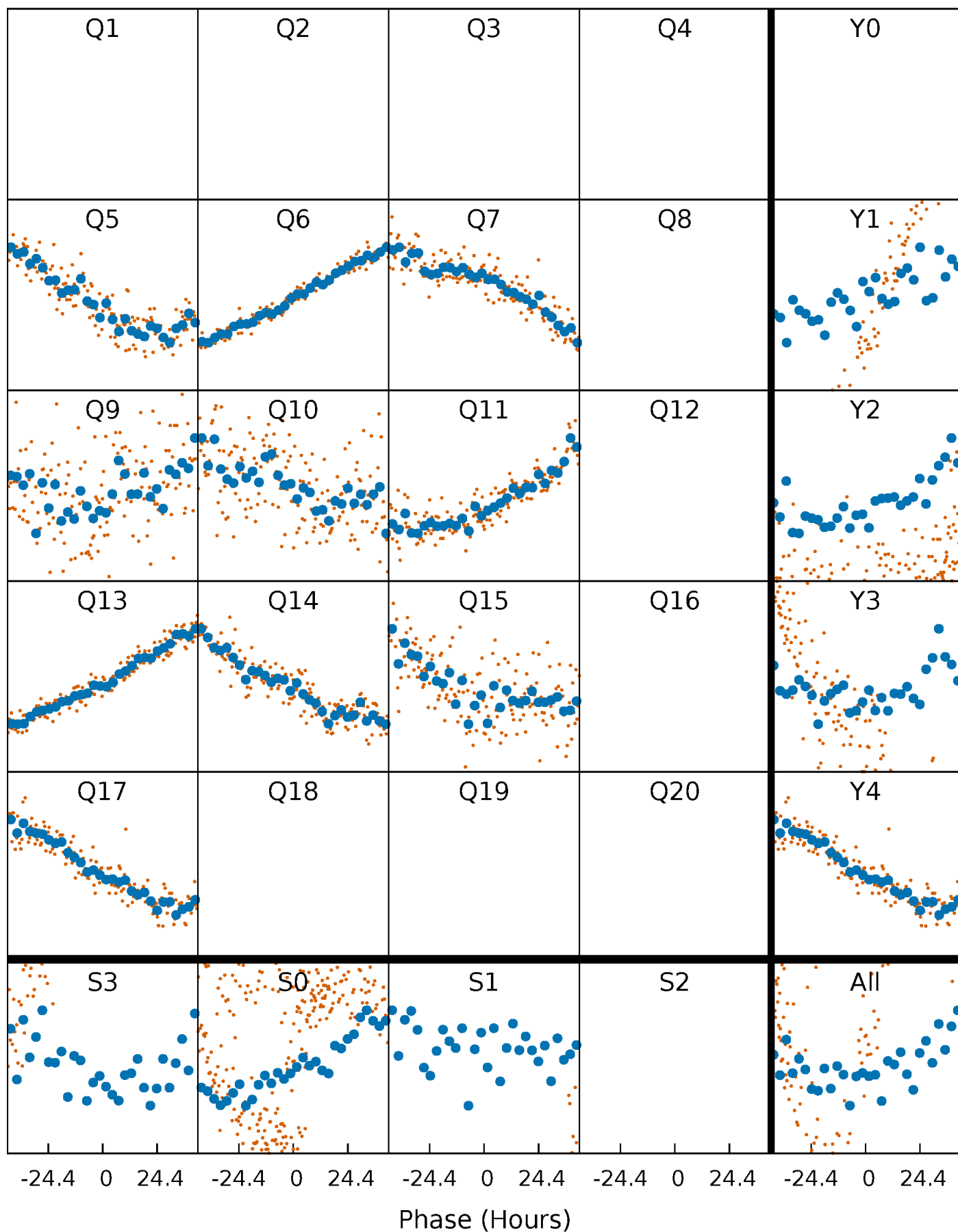


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



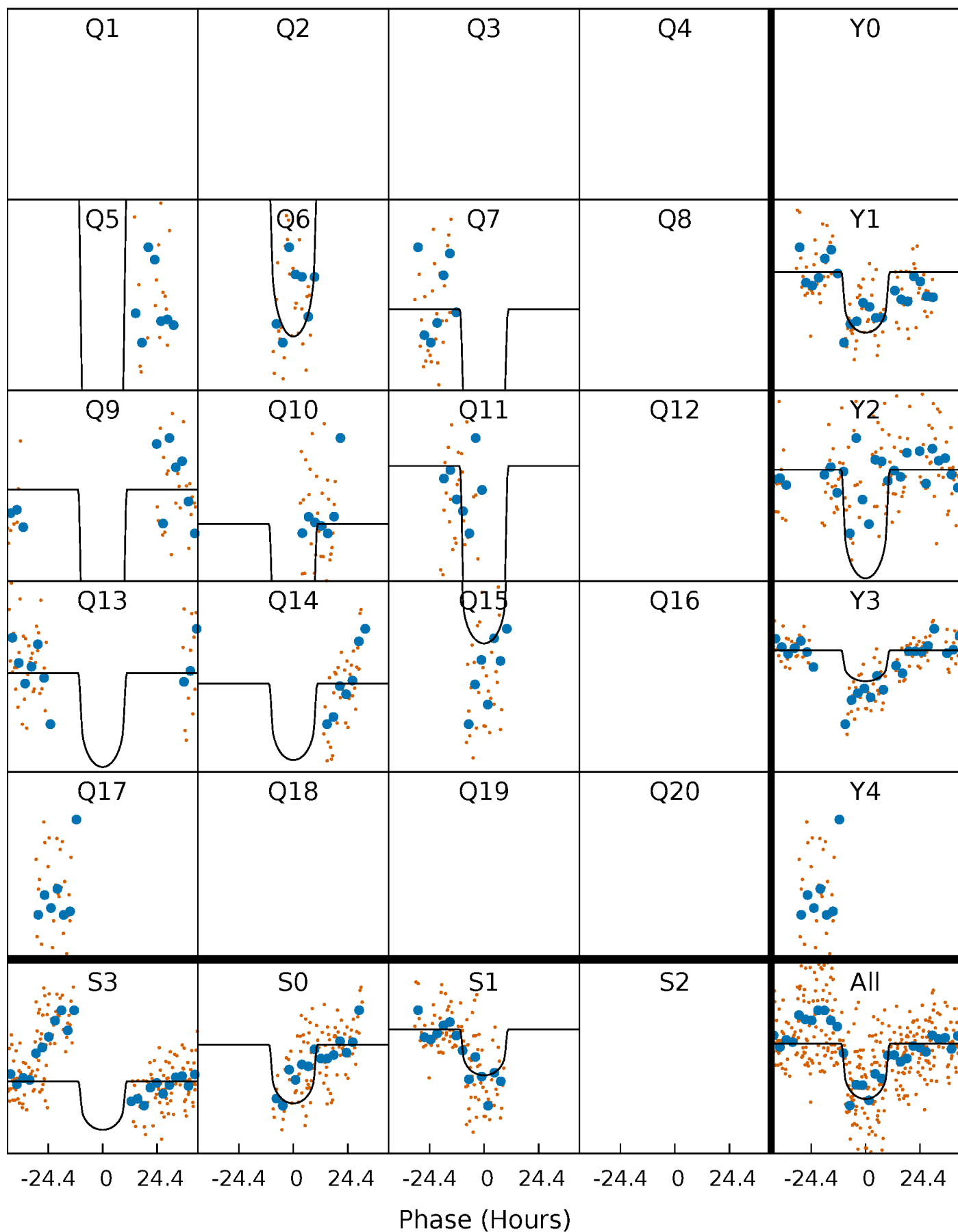
PDC Quarter-Phased Transit Curves

TCE 006801692-02 $P=124.027545$ Days $T_0=212.900032$ (BKJD)



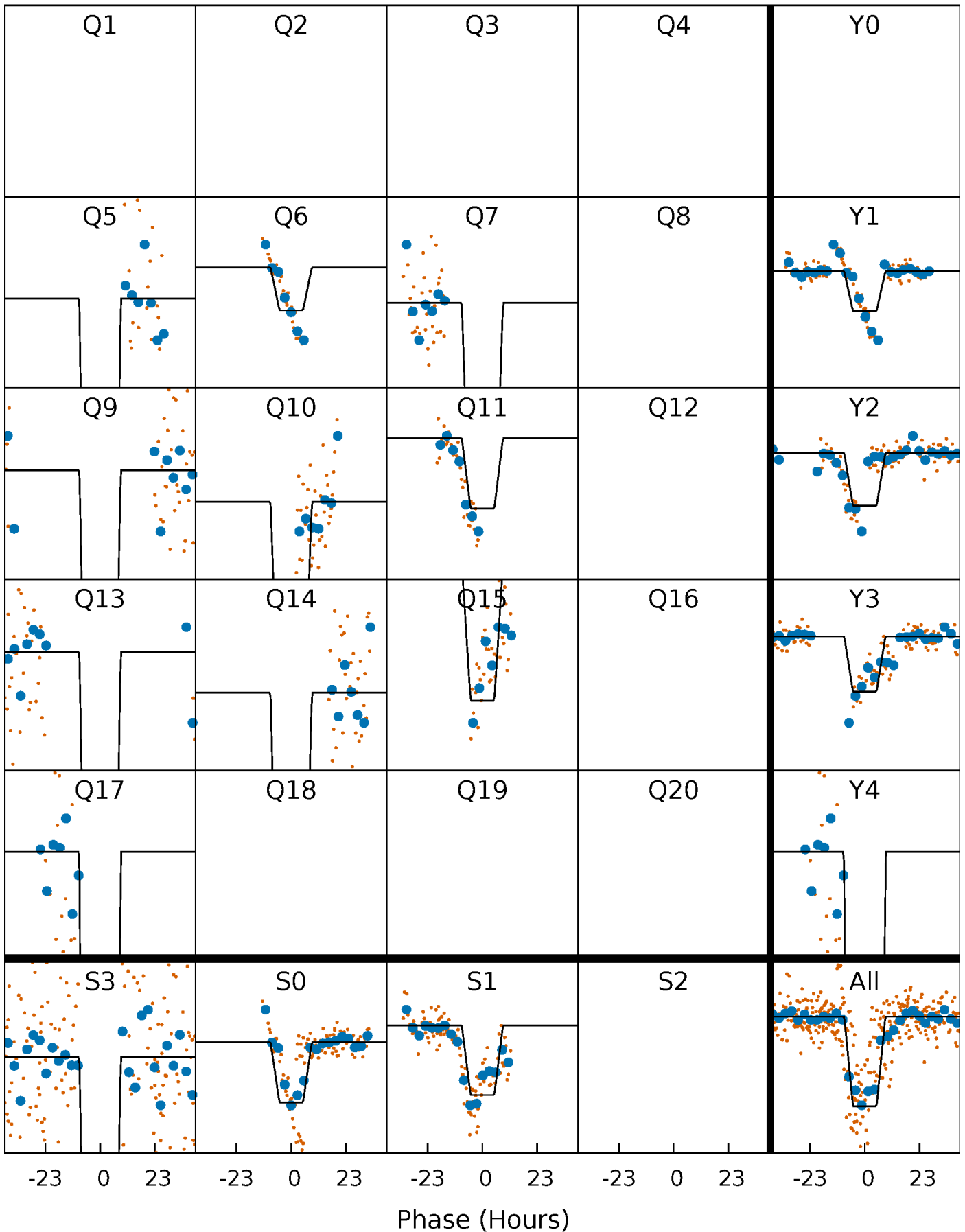
DV Quarter-Phased Transit Curves

TCE 006801692-02 $P=124.027545$ Days $T_0=212.900032$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

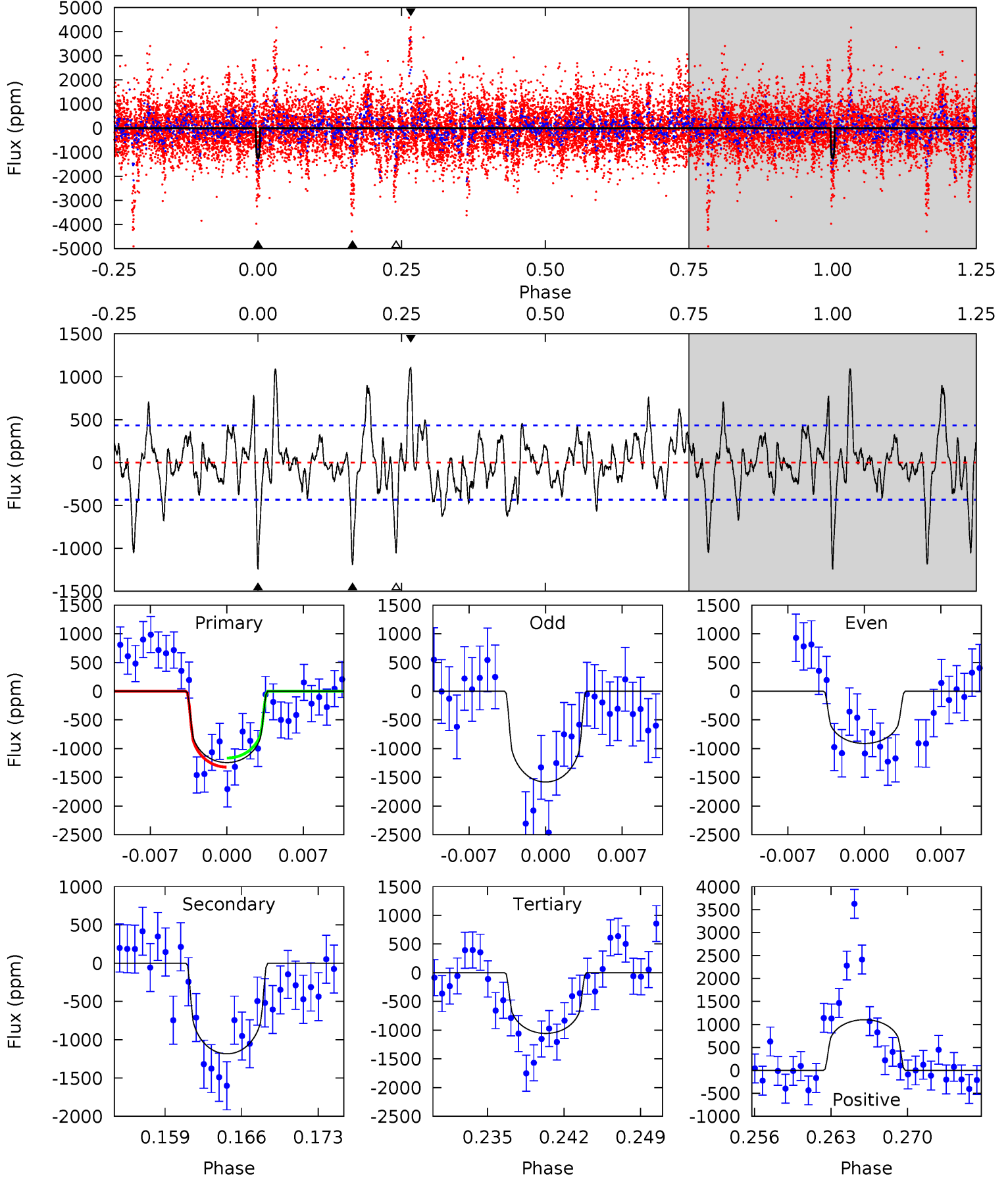
TCE 006801692-02 P=123.990842 Days $T_0=213.141272$ (BKJD)



DV Model-Shift Uniqueness Test

006801692-02, P = 124.027545 Days, E = 212.900032 Days

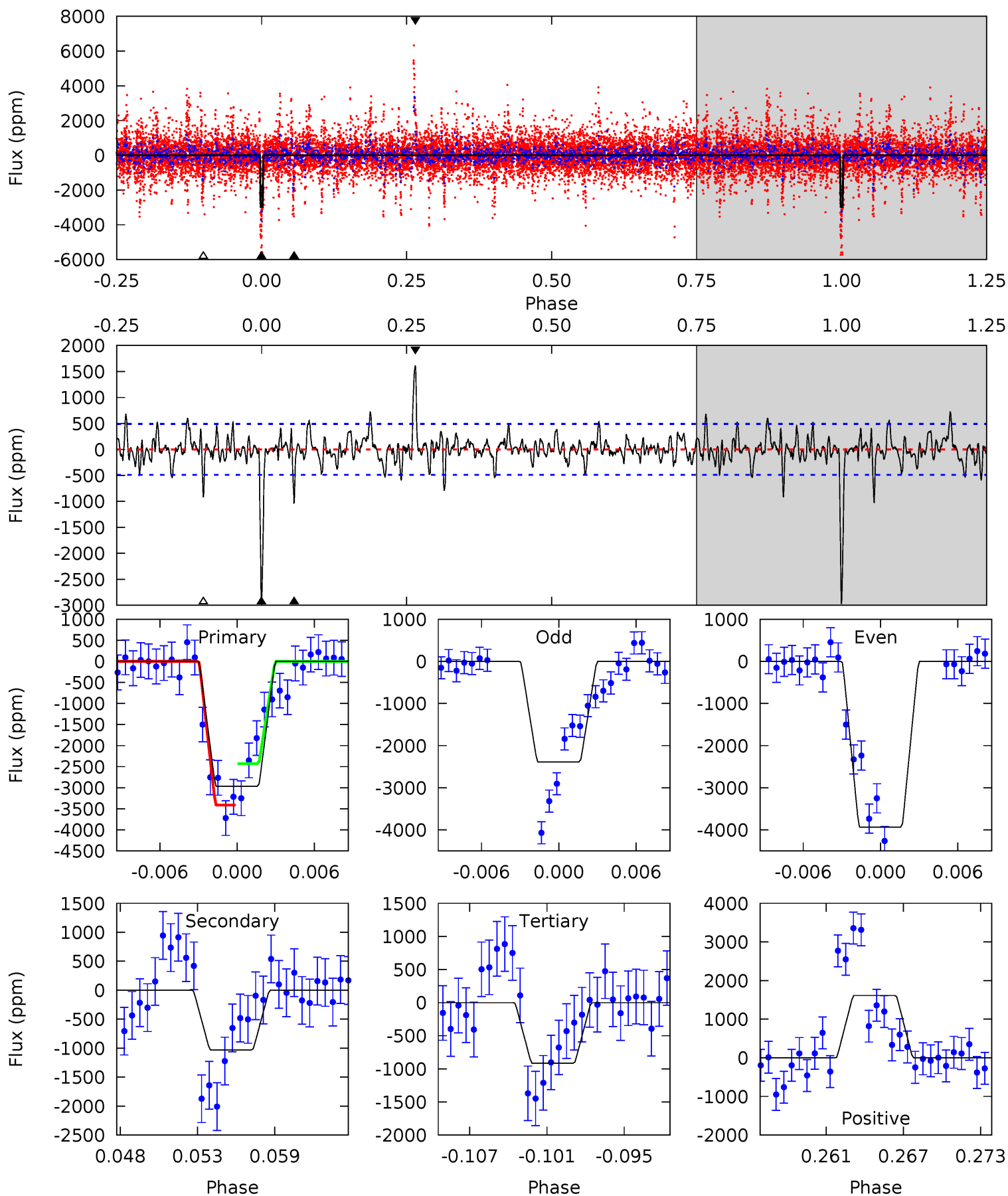
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.7	14.0	12.5	13.0	5.10	2.70	3.56	2.20	1.66	1.50	0.96	3.91	1.25	0.47	0.94



Alt Model-Shift Uniqueness Test

006801692-02, P = 123.990842 Days, E = 213.141272 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
31.1	10.8	9.59	16.9	5.13	2.75	2.33	21.5	14.2	1.19	-6.13	8.11	0.89	0.35	5.15



Stellar Parameters For KIC 006801692

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5057^{+176}_{-176}	$4.573^{+0.072}_{-0.048}$	$-0.440^{+0.300}_{-0.300}$	$0.704^{+0.072}_{-0.072}$	$0.676^{+0.093}_{-0.043}$	$2.732^{+0.917}_{-0.479}$
	+3%/-3%	+2%/-1%	+68%/-68%	+10%/-10%	+14%/-6%	+34%/-18%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006801692-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1184 ± 85	$2.86^{+0.71}_{-0.69}$	399^{+16}_{-15}	4883^{+695}_{-442}	14743^{+10773}_{-5136}
Alt.	-1029 ± 95	$4.58^{+0.72}_{-0.70}$	399^{+17}_{-17}	3982^{+256}_{-229}	4988^{+2055}_{-1274}

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

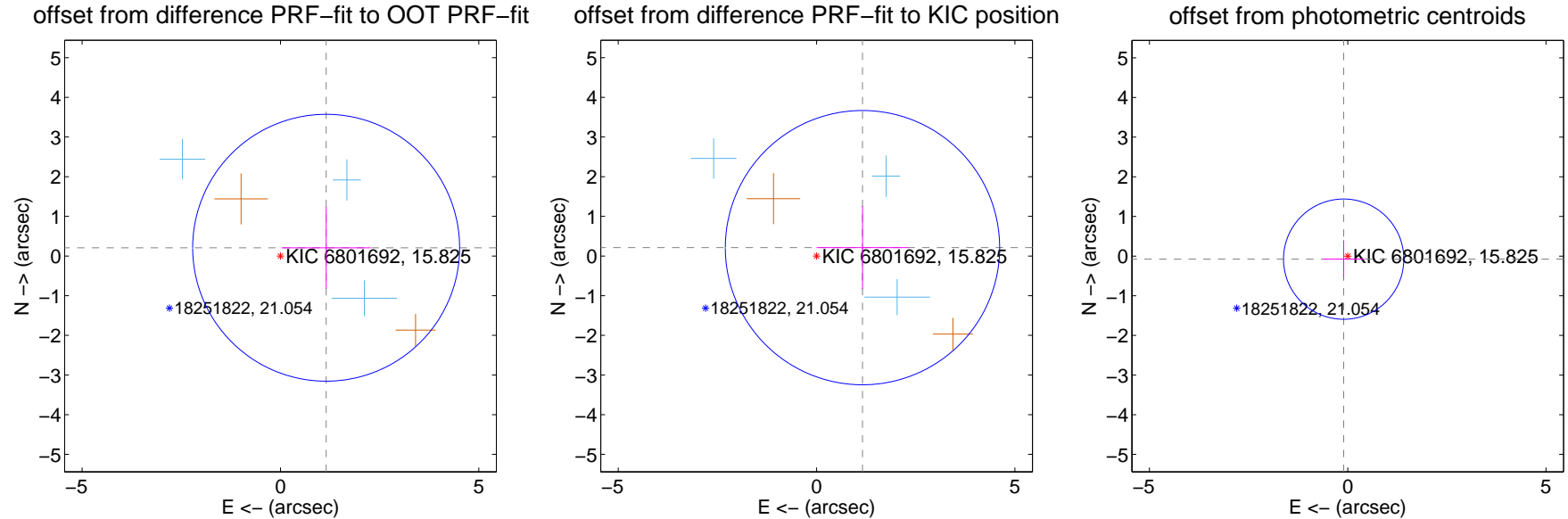
DV Centroid Data

Supplemental centroid analysis for 006801692-02. Kepler magnitude: 15.82. Transit SNR 10.54

There are 3 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.170 ± 1.121	1.04	-1.151 ± 1.124	0.208 ± 1.034
PRF-fit source offset from KIC position	1.176 ± 1.152	1.02	-1.157 ± 1.156	0.211 ± 1.053
photometric centroid source offset	0.13 ± 0.51	0.25	0.10 ± 0.52	-0.08 ± 0.48

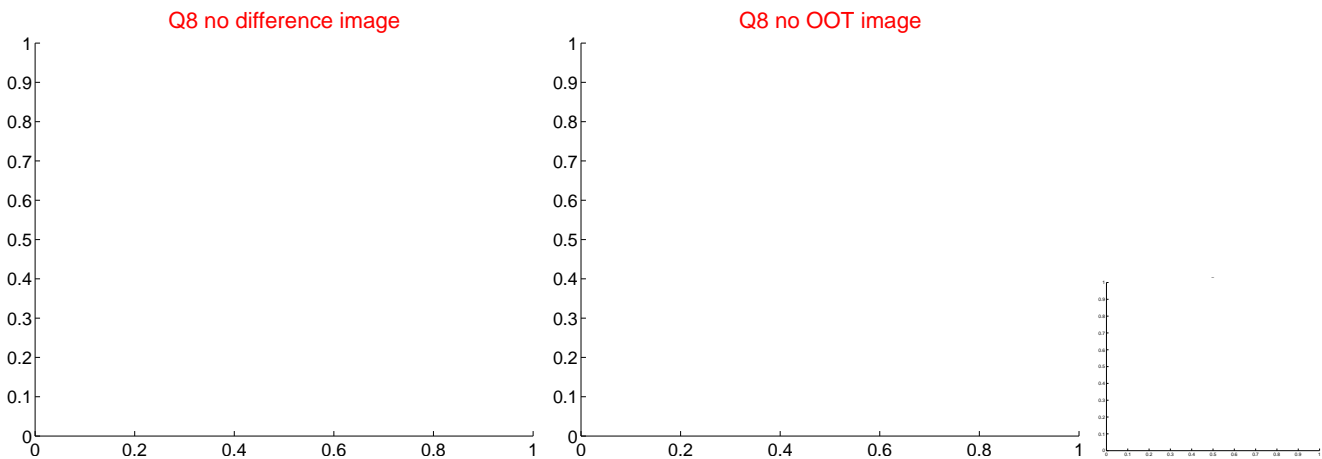
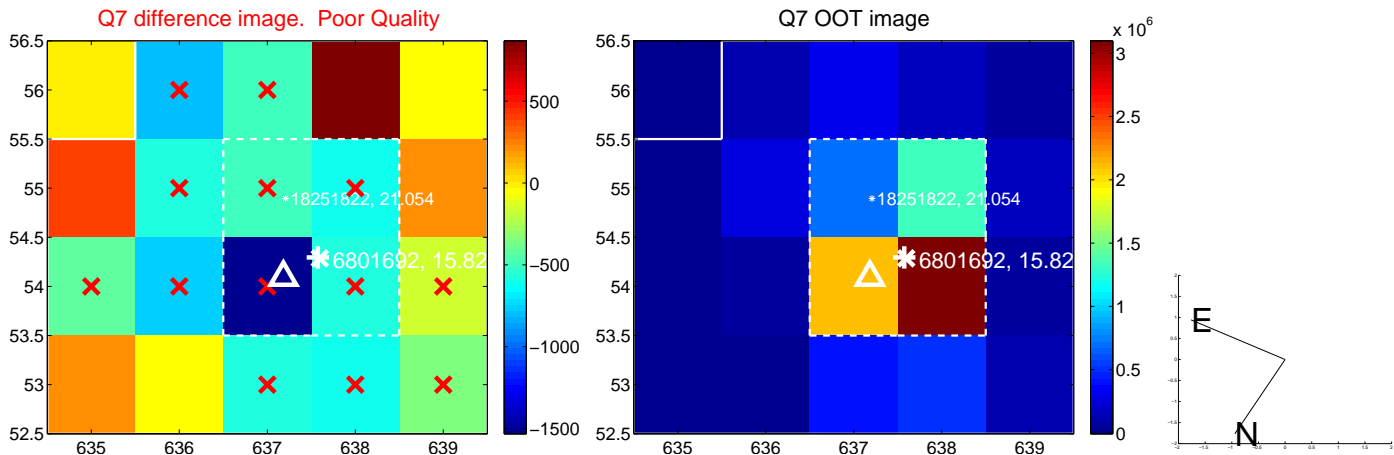
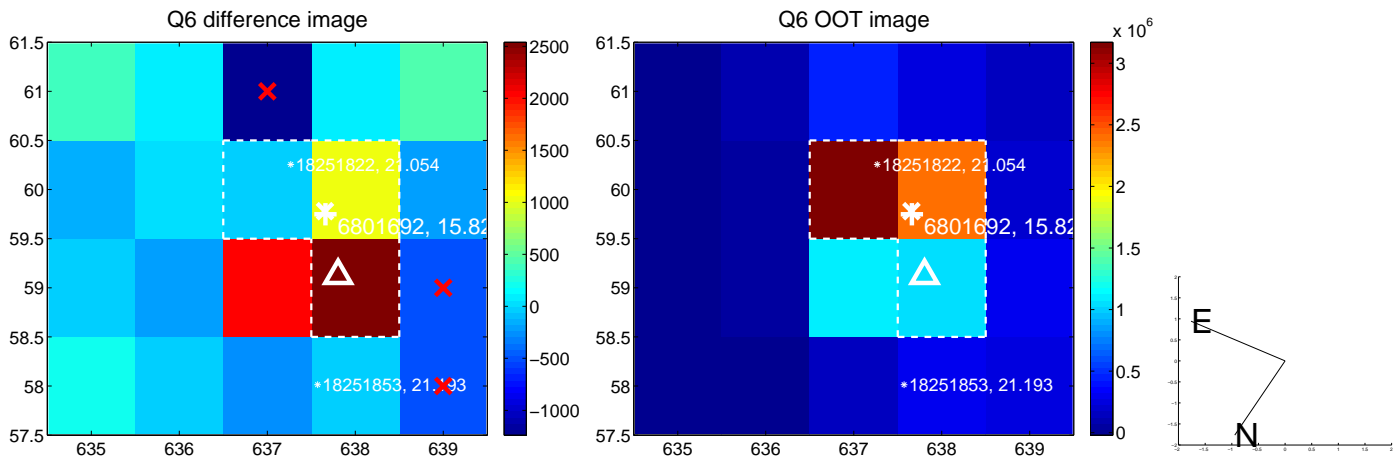
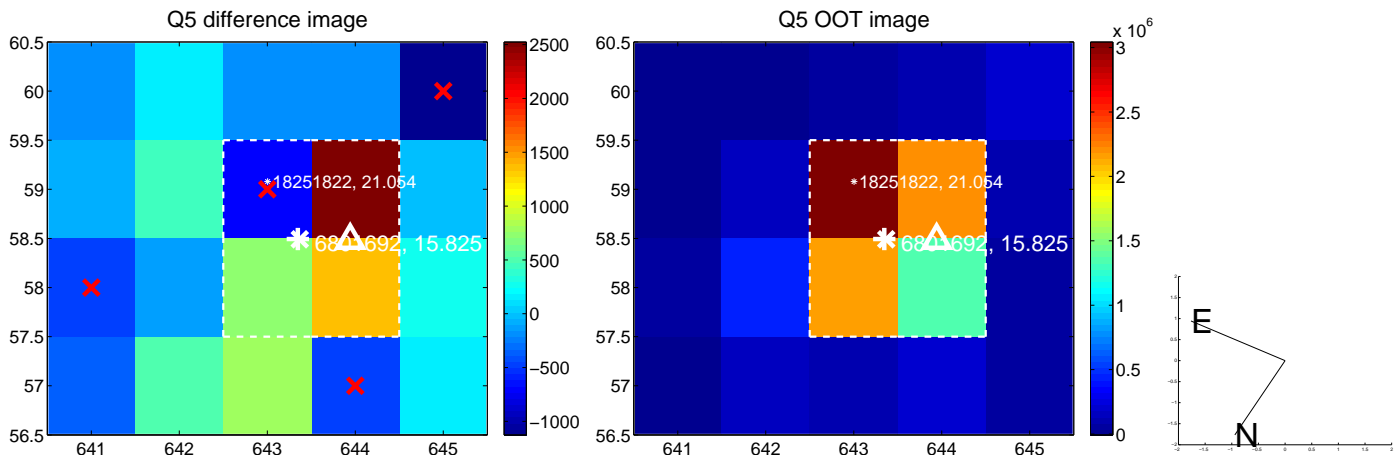


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

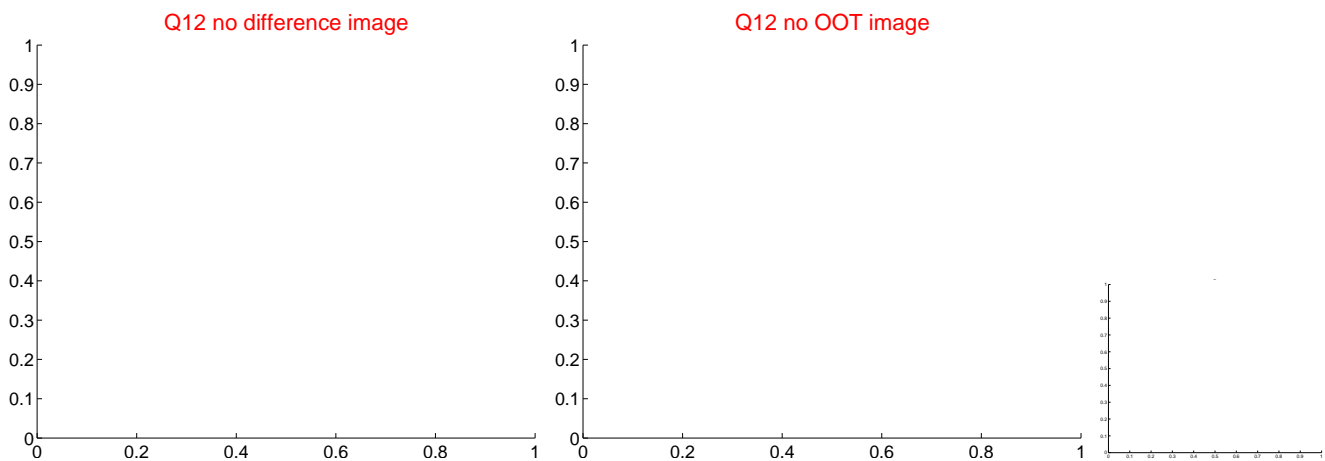
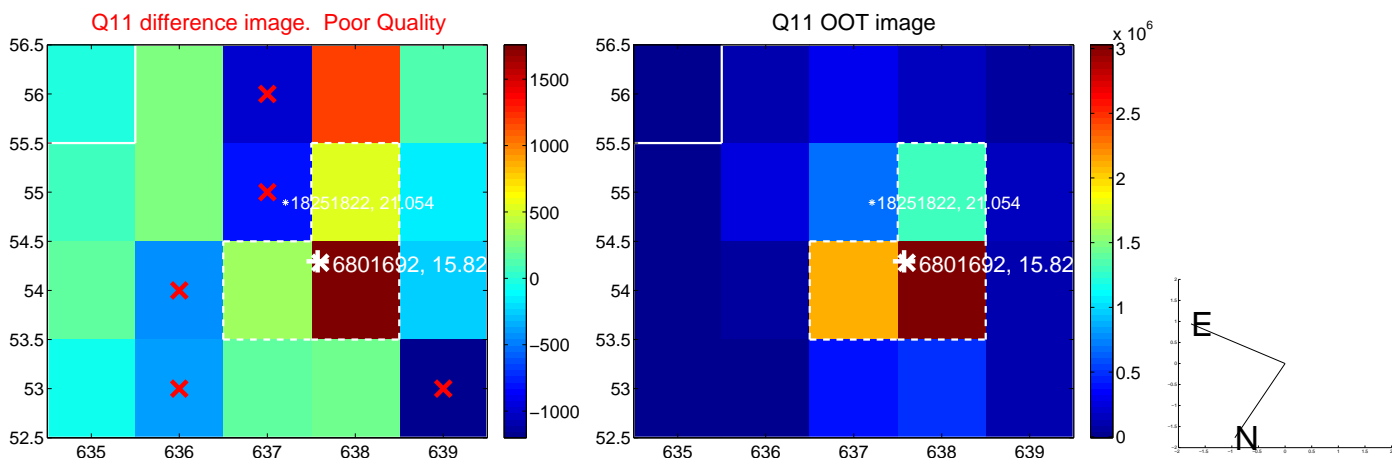
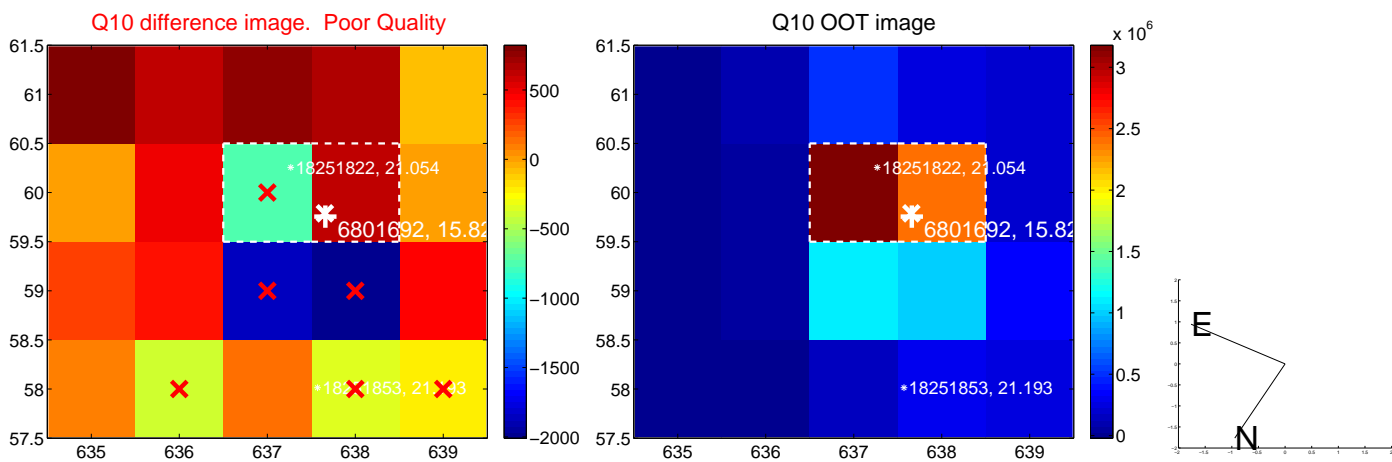
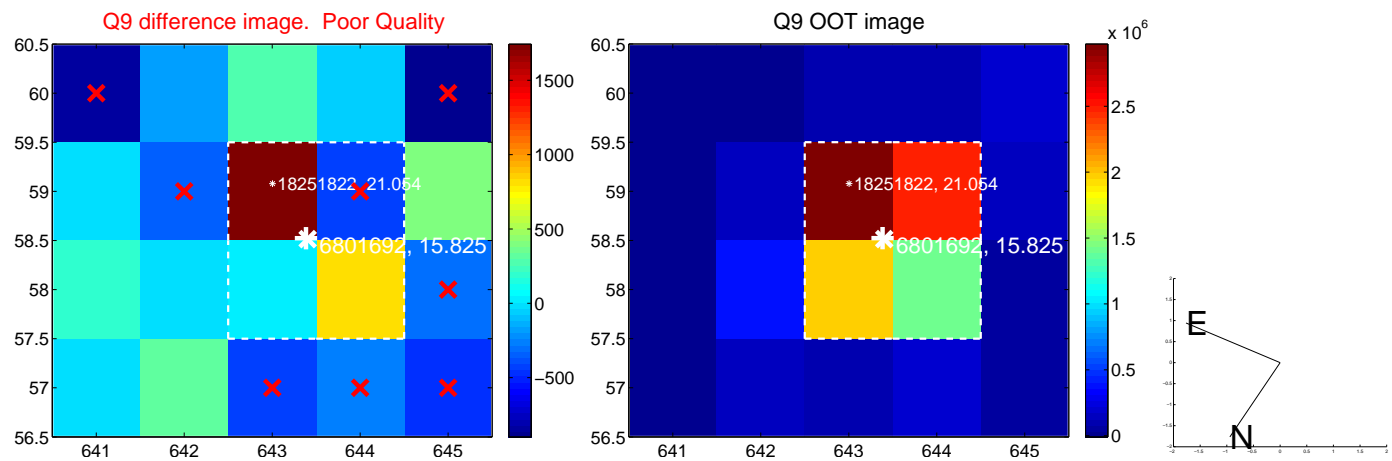
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



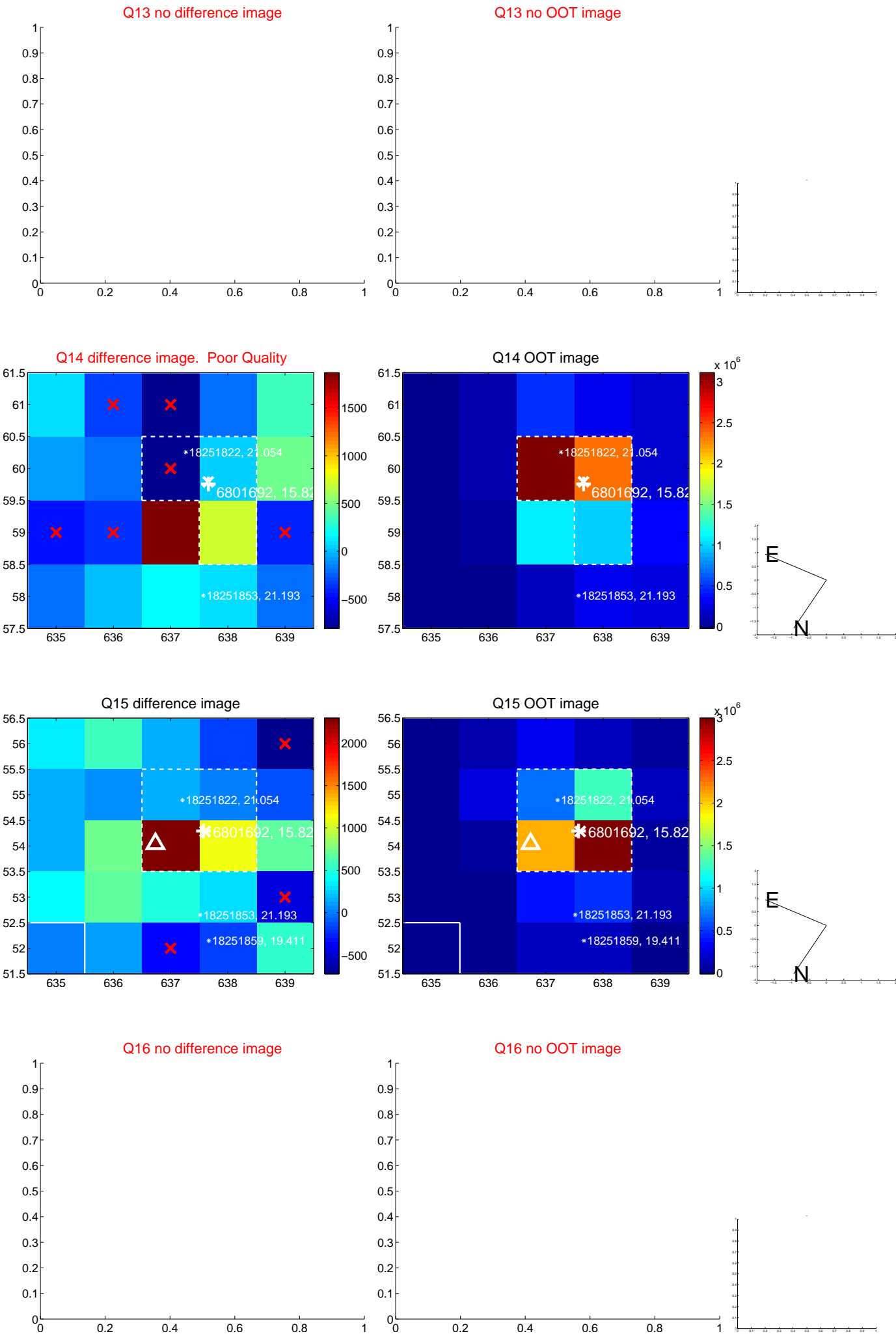
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



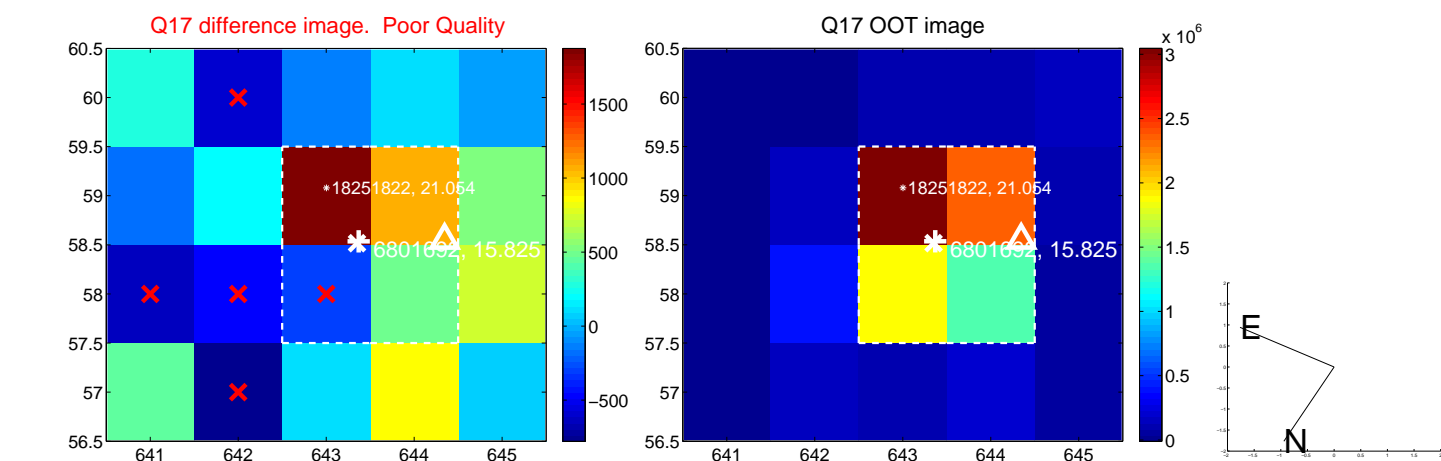
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



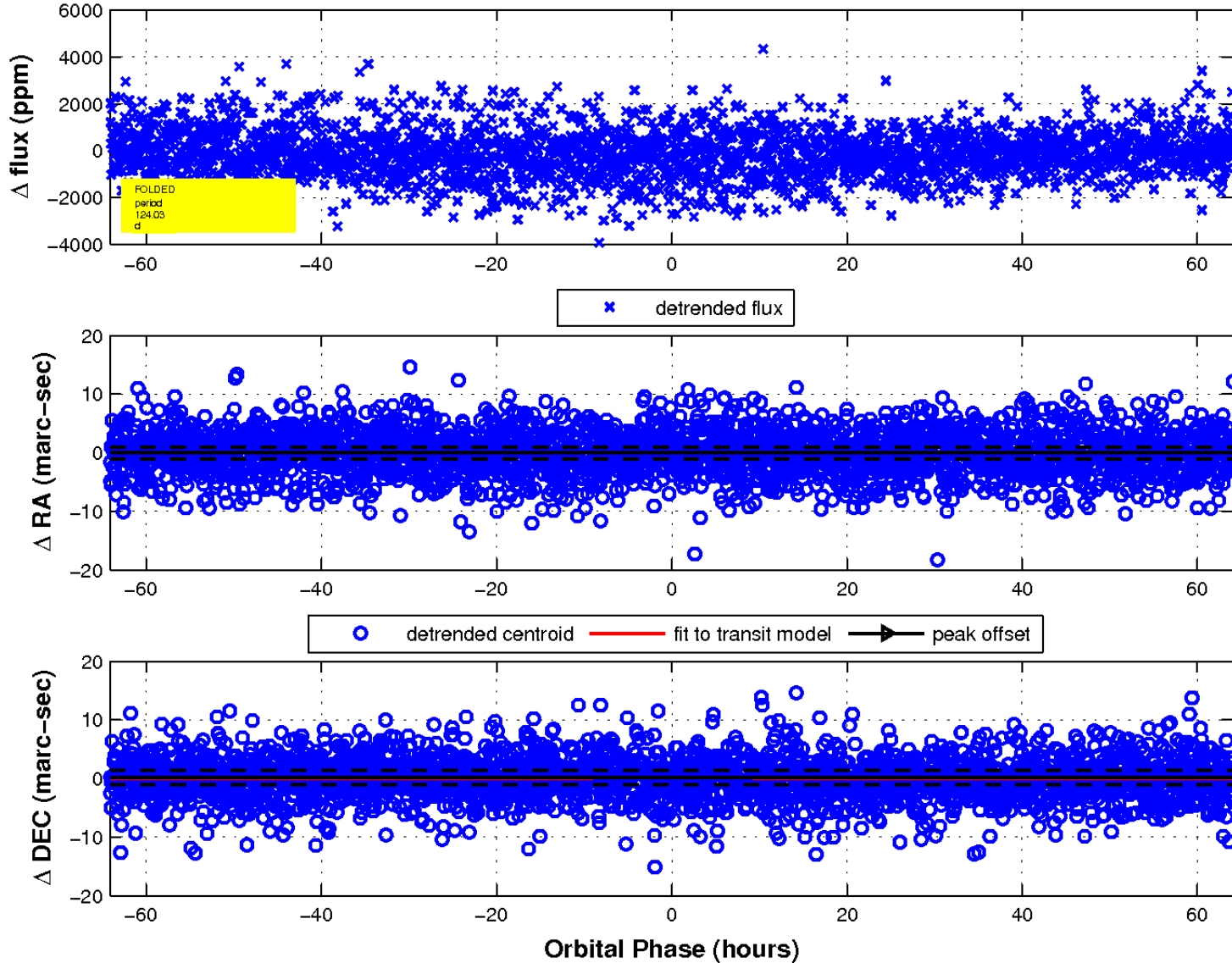
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



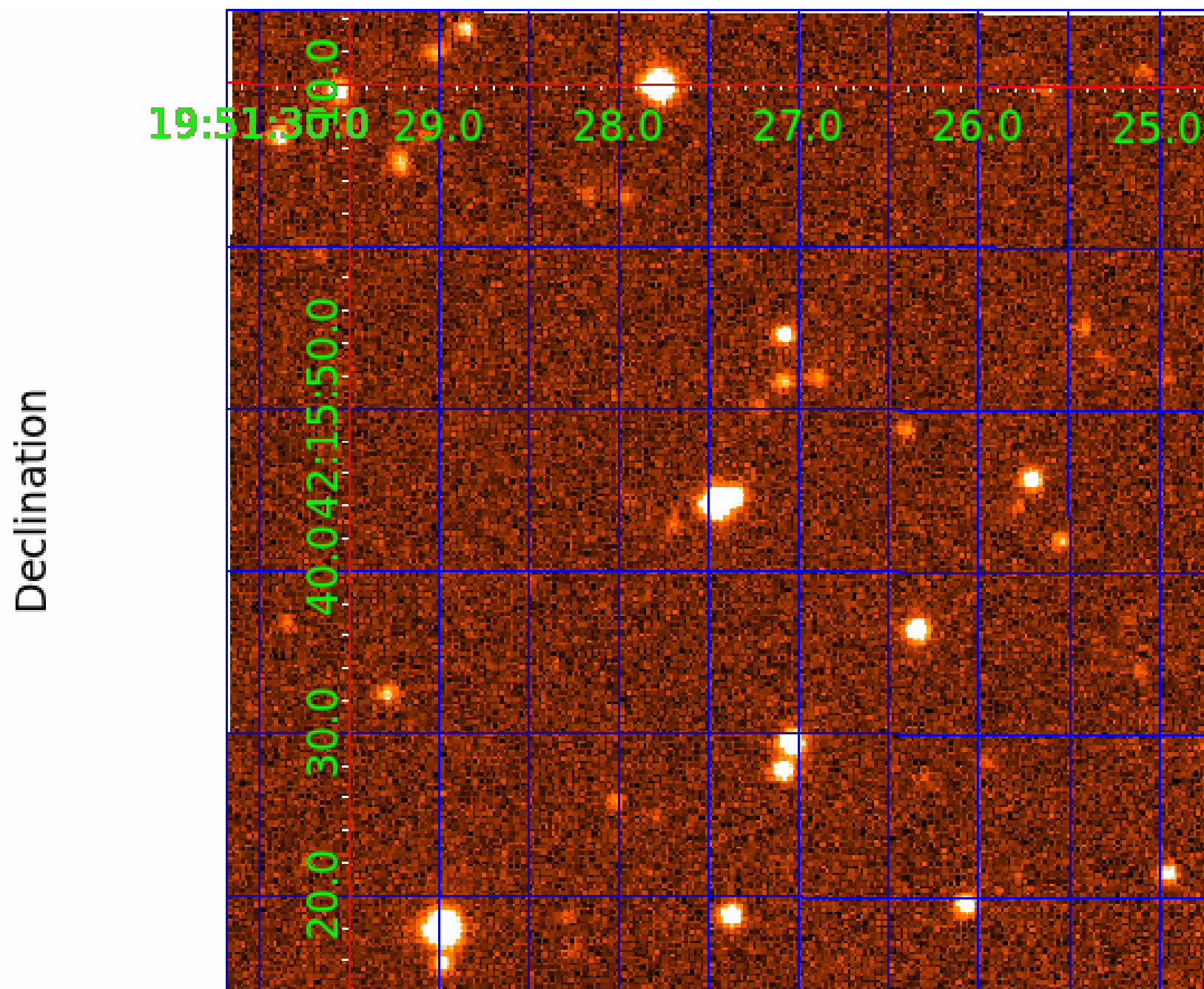
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 2 of 5



UKIRT Image



KIC 006801692

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})
006801692-01	OBS	No	3.239642	133.039603	109.9	19.862	8.8	8.9	0.70	5057	0.73	205.20
006801692-02	OBS	No	124.027545	212.900032	1454.6	21.381	13.1	10.5	0.70	5057	2.87	1.59
006801692-03	OBS	No	320.602011	235.396021	1305.9	36.497	12.3	7.9	0.70	5057	2.87	0.45
006801692-04	OBS	No	91.440160	160.763968	666.6	21.810	9.1	5.7	0.70	5057	1.90	2.39
006801692-05	OBS	No	69.257818	144.625596	1562.5	2.163	7.5	7.4	0.70	5057	4.33	3.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006801692-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006801692-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—HALO_GHOST
006801692-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006801692-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
006801692-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_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.

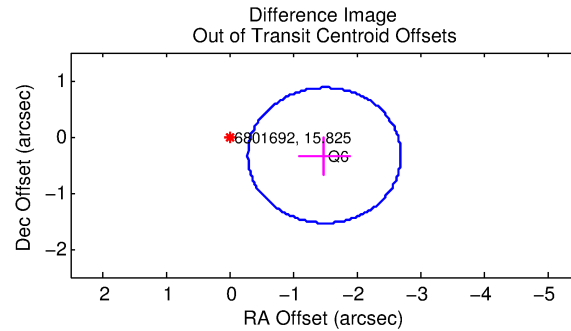
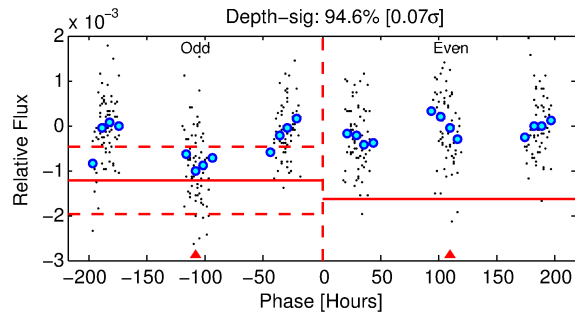
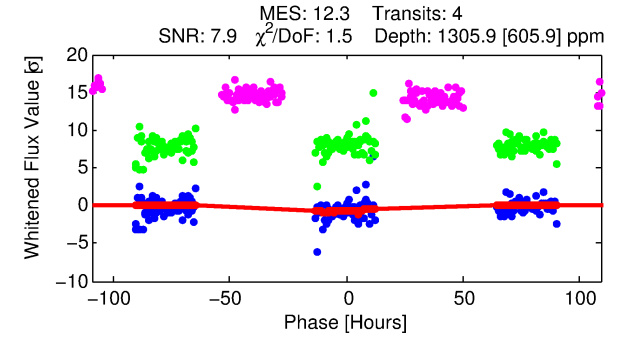
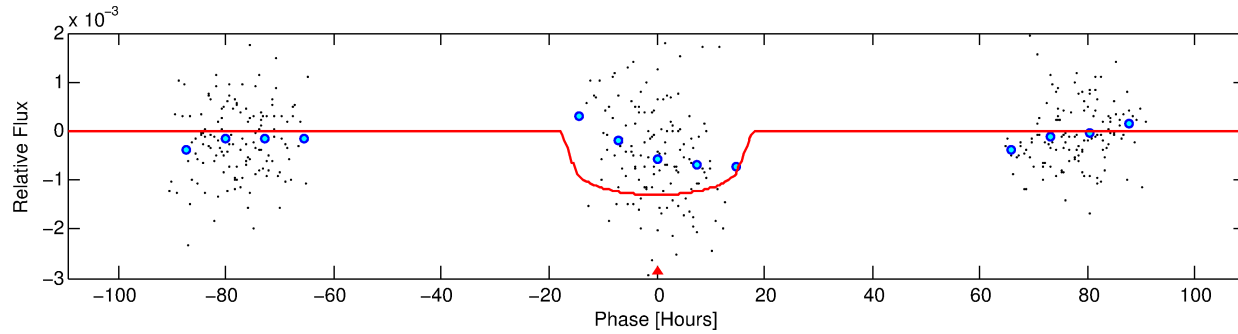
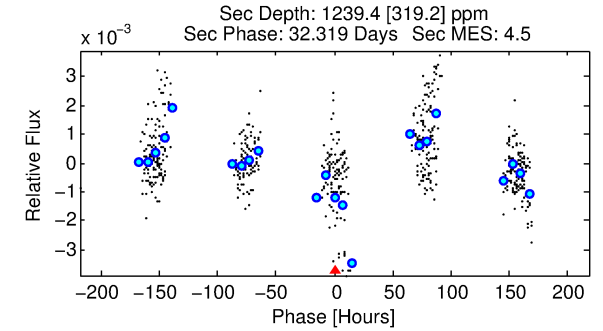
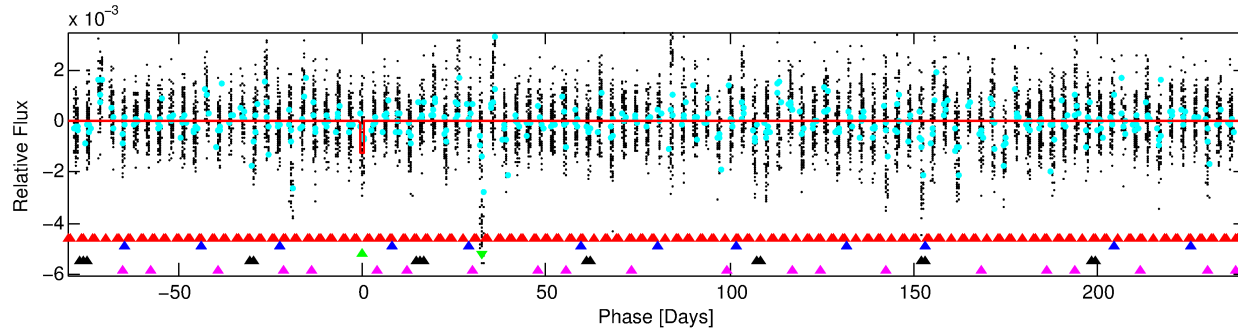
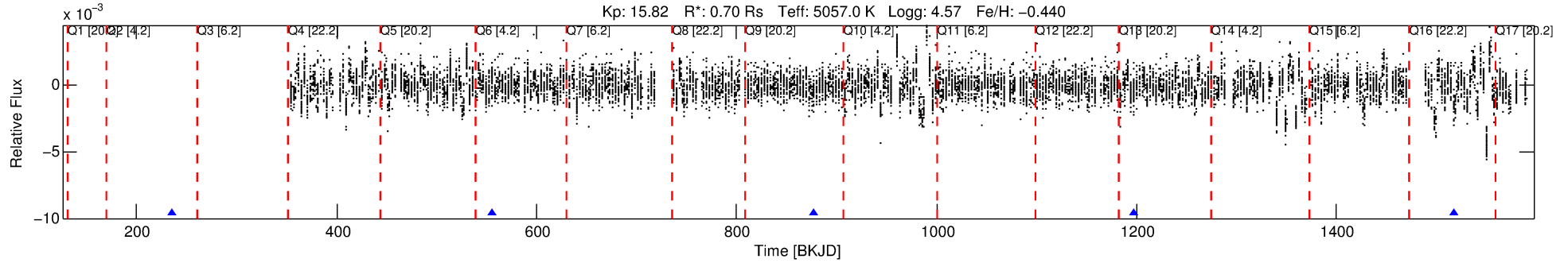
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006801692-03

No Significant Match Found

DV One-Page Summary

KIC: 6801692 Candidate: 3 of 5 Period: 320.602 d



DV Fit Results:

Period = 320.60201 [0.52669] d
Epoch = 235.3960 [1.7629] BKJD
Rp/R* = 0.0373 [0.0729]
a/R* = 42.98 [320.71]
b = 0.82 [3.18]
Seff = 0.45 [0.09]
Teq = 209 [10] K
Rp = 2.87 [5.61] Re
a = 0.8049 [0.0706] AU
Ag = 53723.39 [210429.85] [0.26 σ]
Teffp = 4911 [4811] K [0.98 σ]

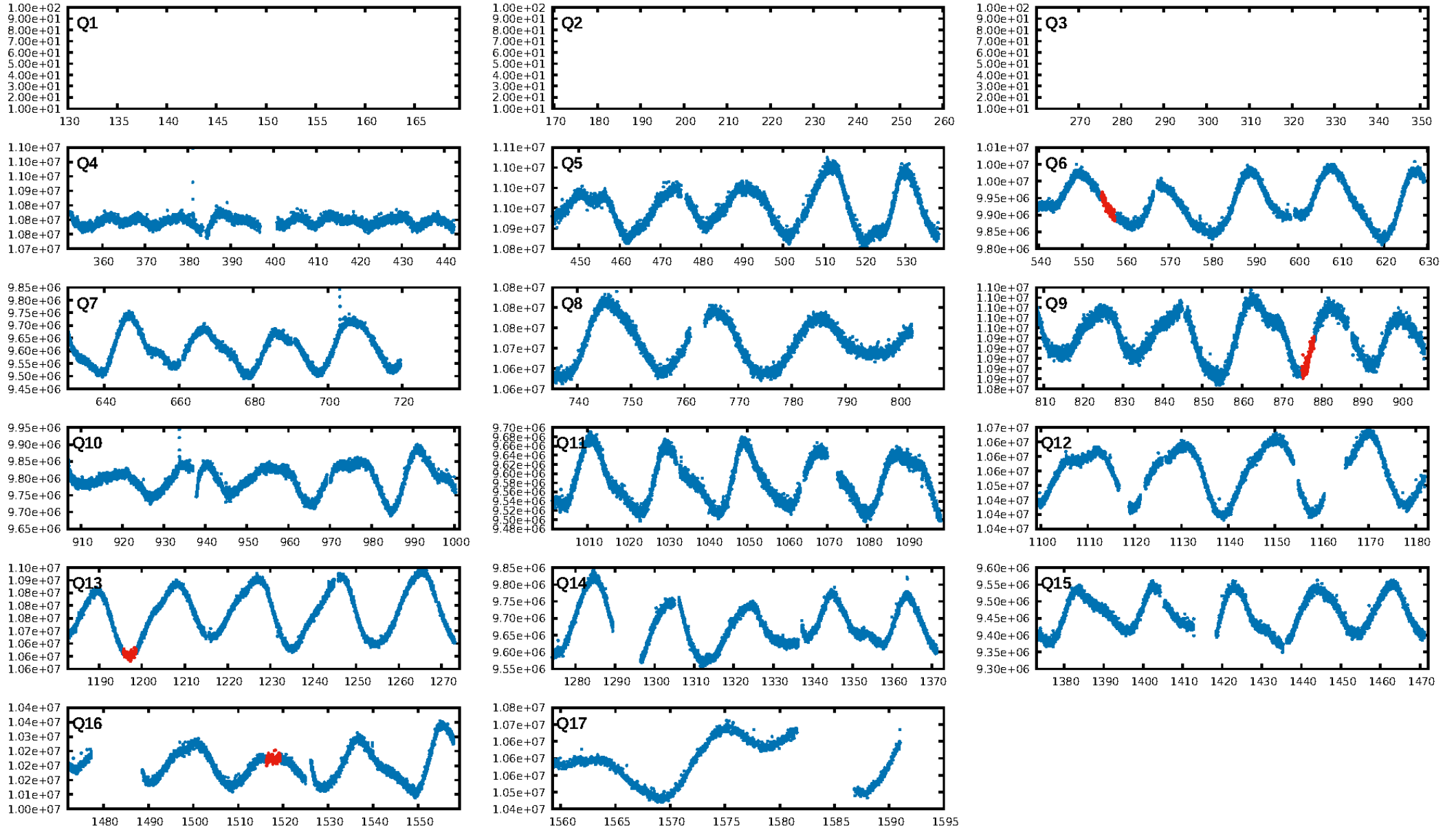
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [111.53 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 65.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.15e-15
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.343
Centroid-sig: 13.9%
Centroid-so: 0.888 arcsec [1.15 σ]
OotOffset-rm: 1.533 arcsec [3.82 σ]
KicOffset-rm: 1.506 arcsec [3.75 σ]
OotOffset-st: 1/0/0/0 [1]
KicOffset-st: 1/0/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 0.00 [0/1]

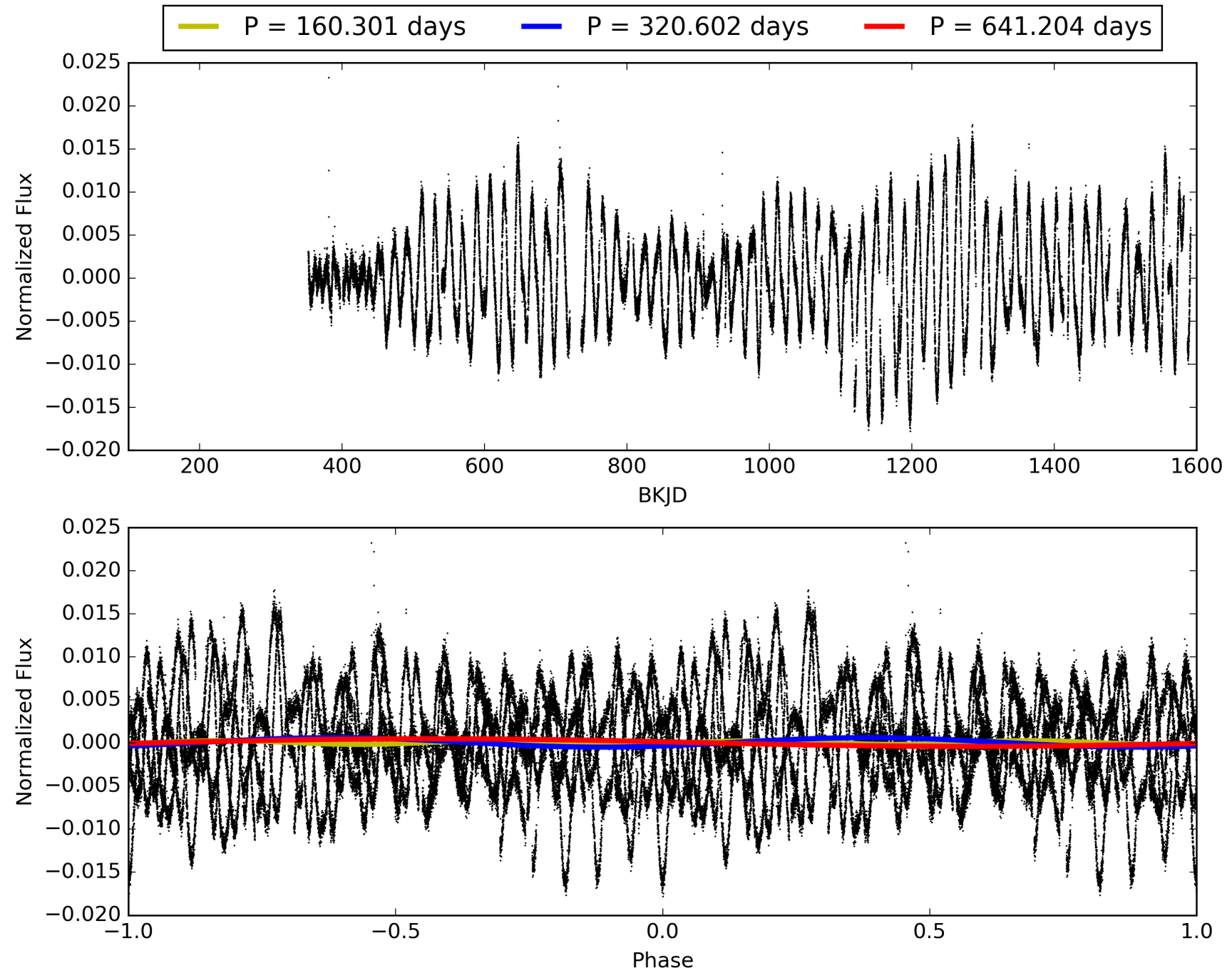
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 10:30:35 Z

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

TCE 006801692-03, PDC Light Curves

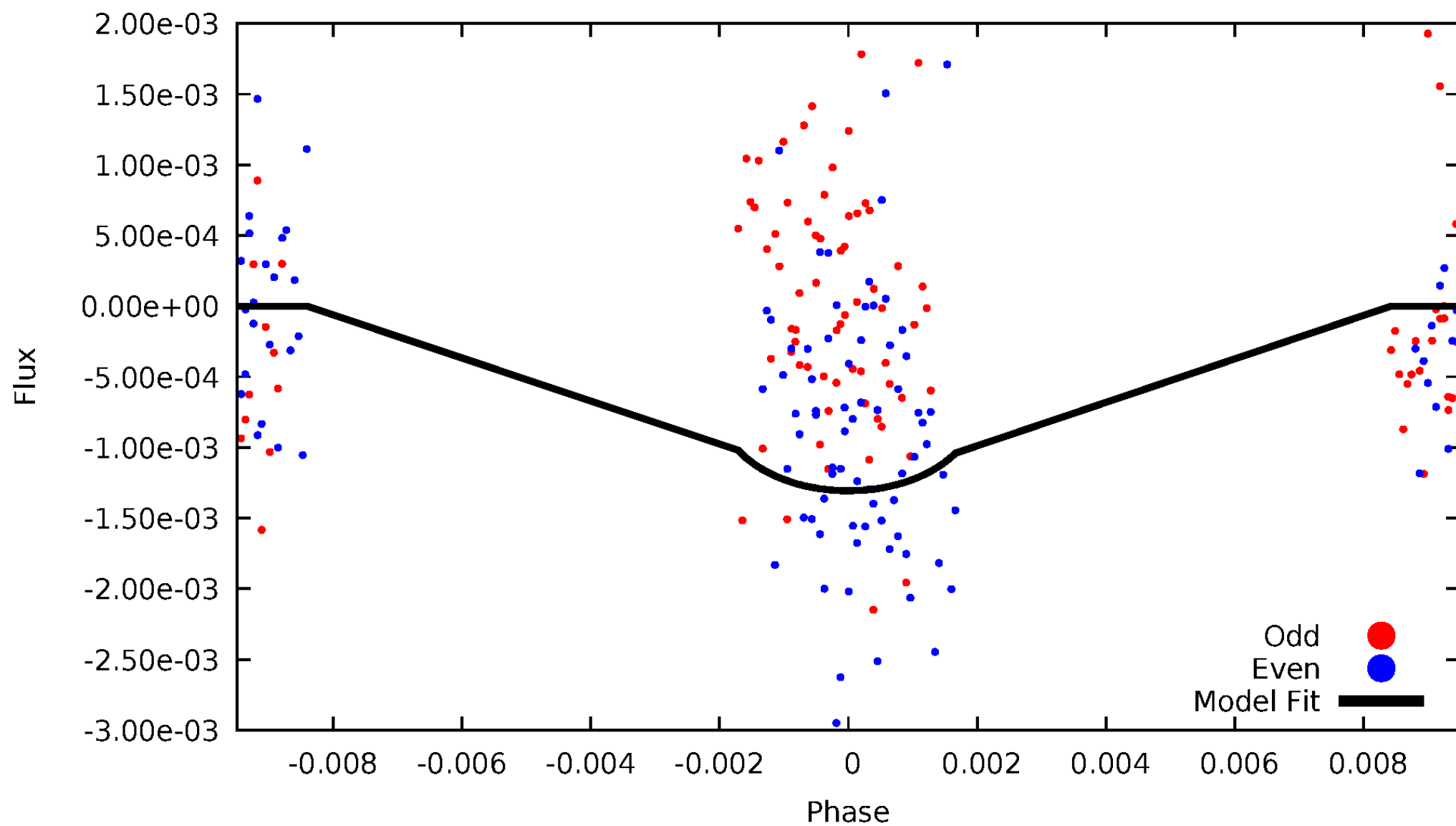


TCE 006801692-03



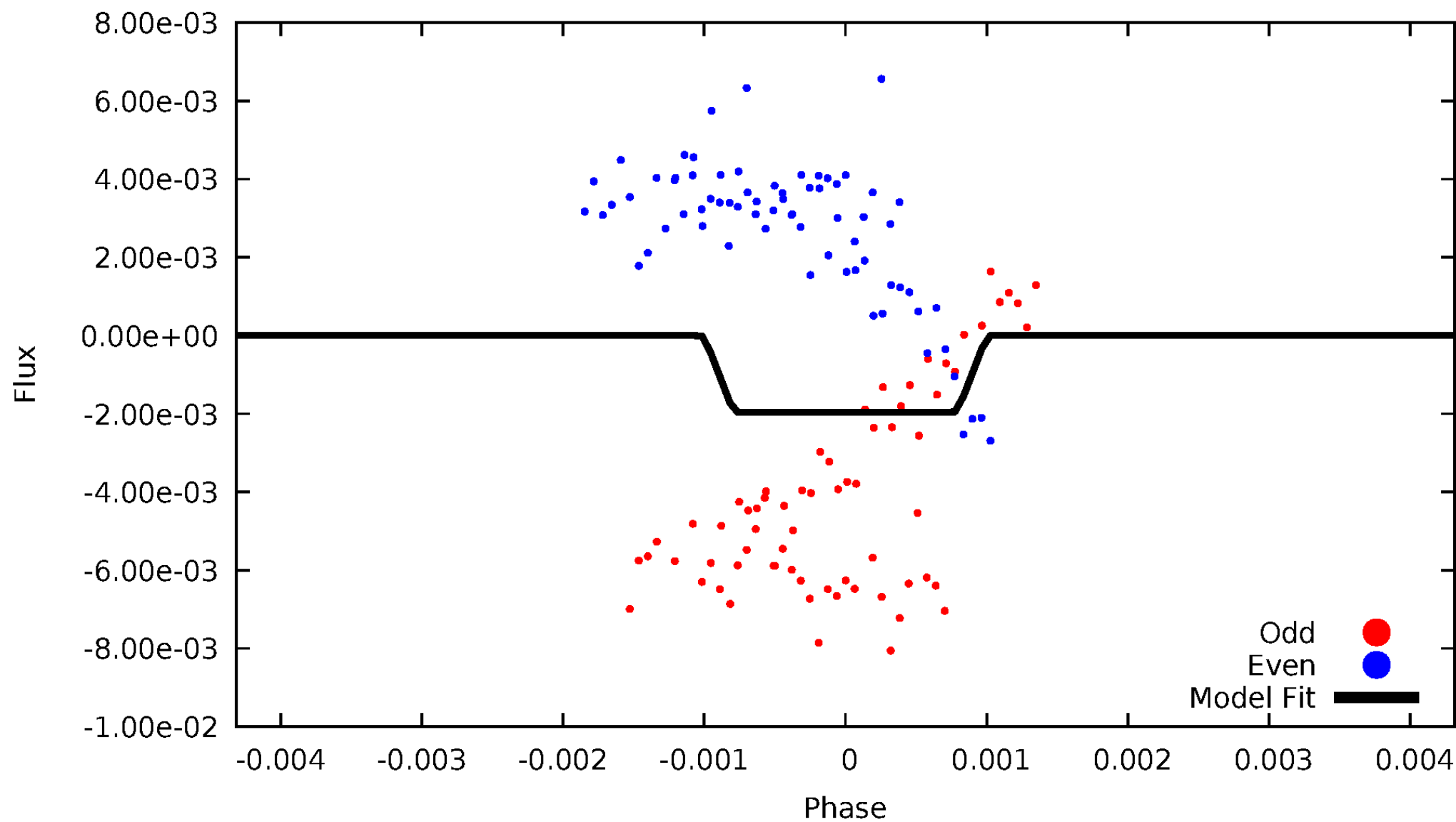
DV Odd/Even

TCE 006801692-03



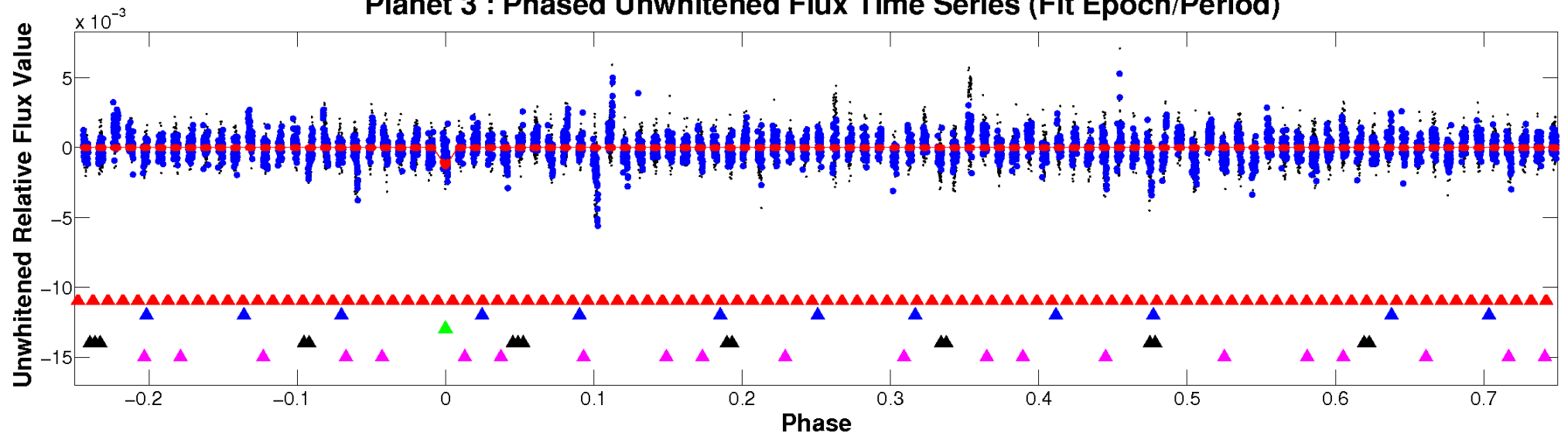
ALT Odd/Even

TCE 006801692-03

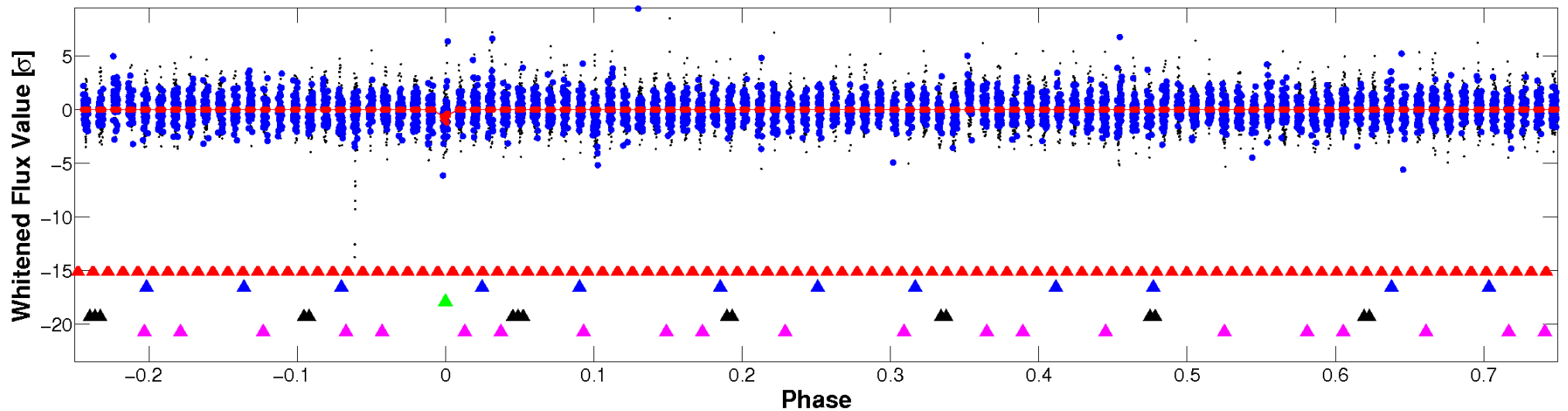


Non-Whitened Vs. Whitened Light Curve

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

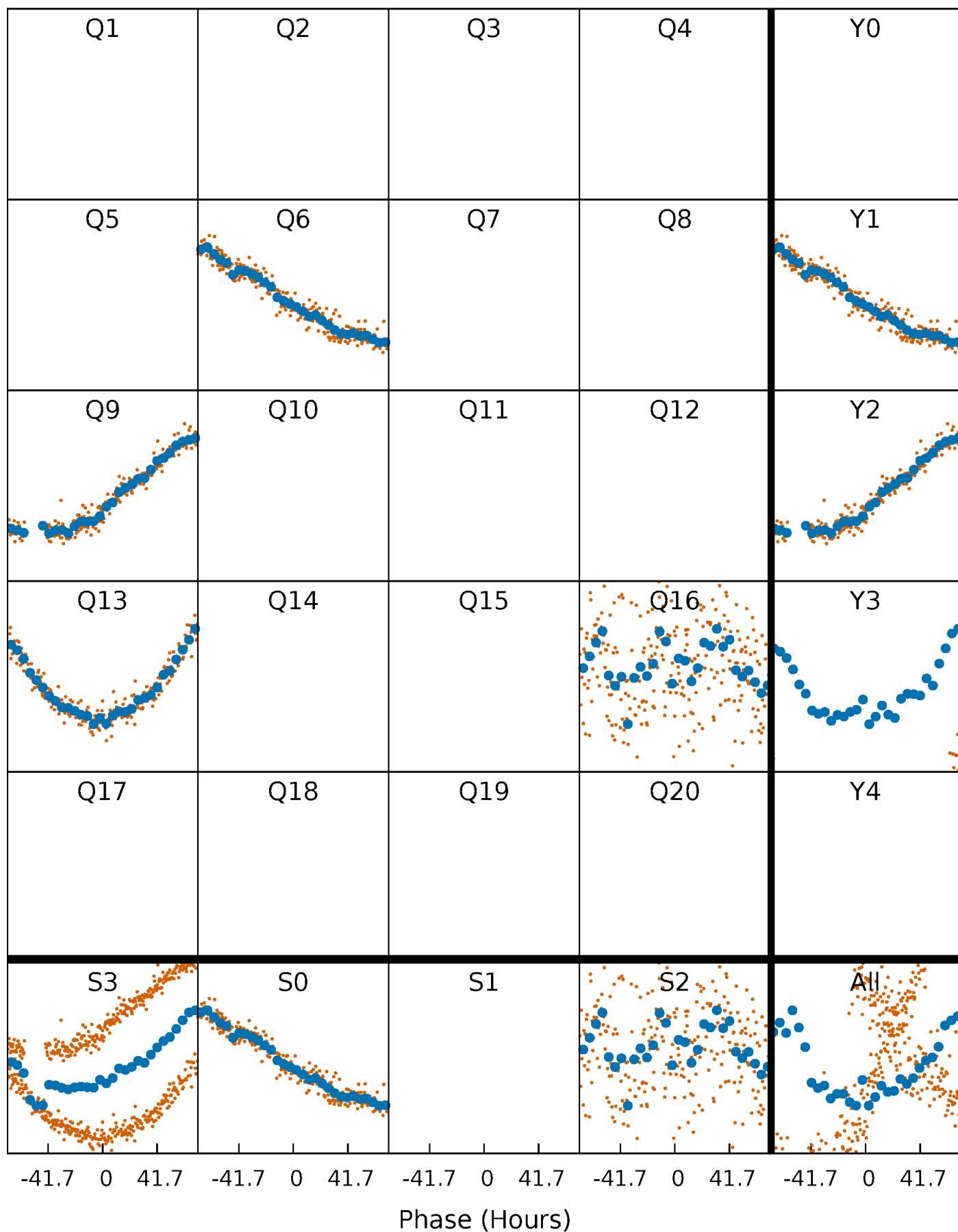


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



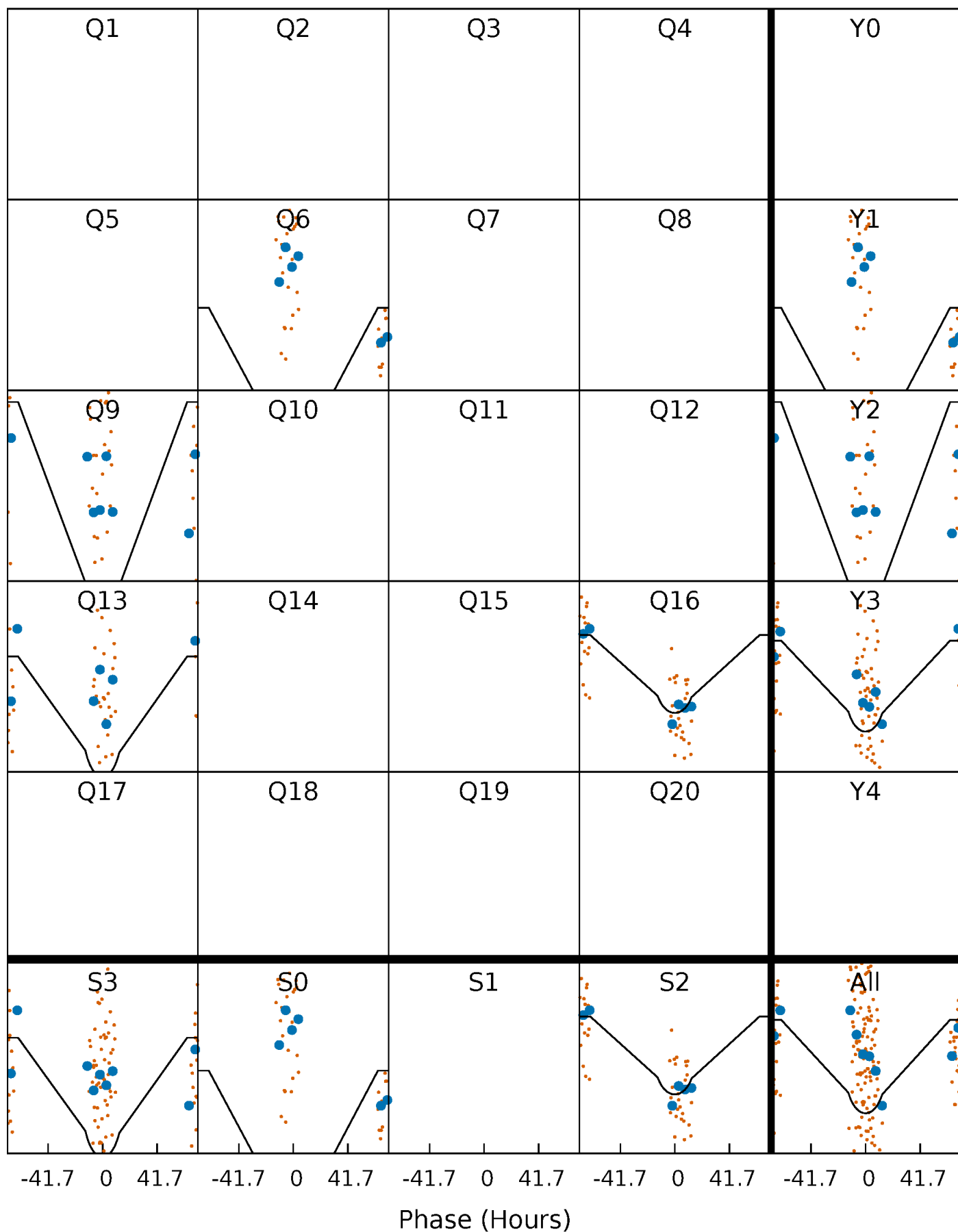
PDC Quarter-Phased Transit Curves

TCE 006801692-03 $P=320.602011$ Days $T_0=235.396020$ (BKJD)



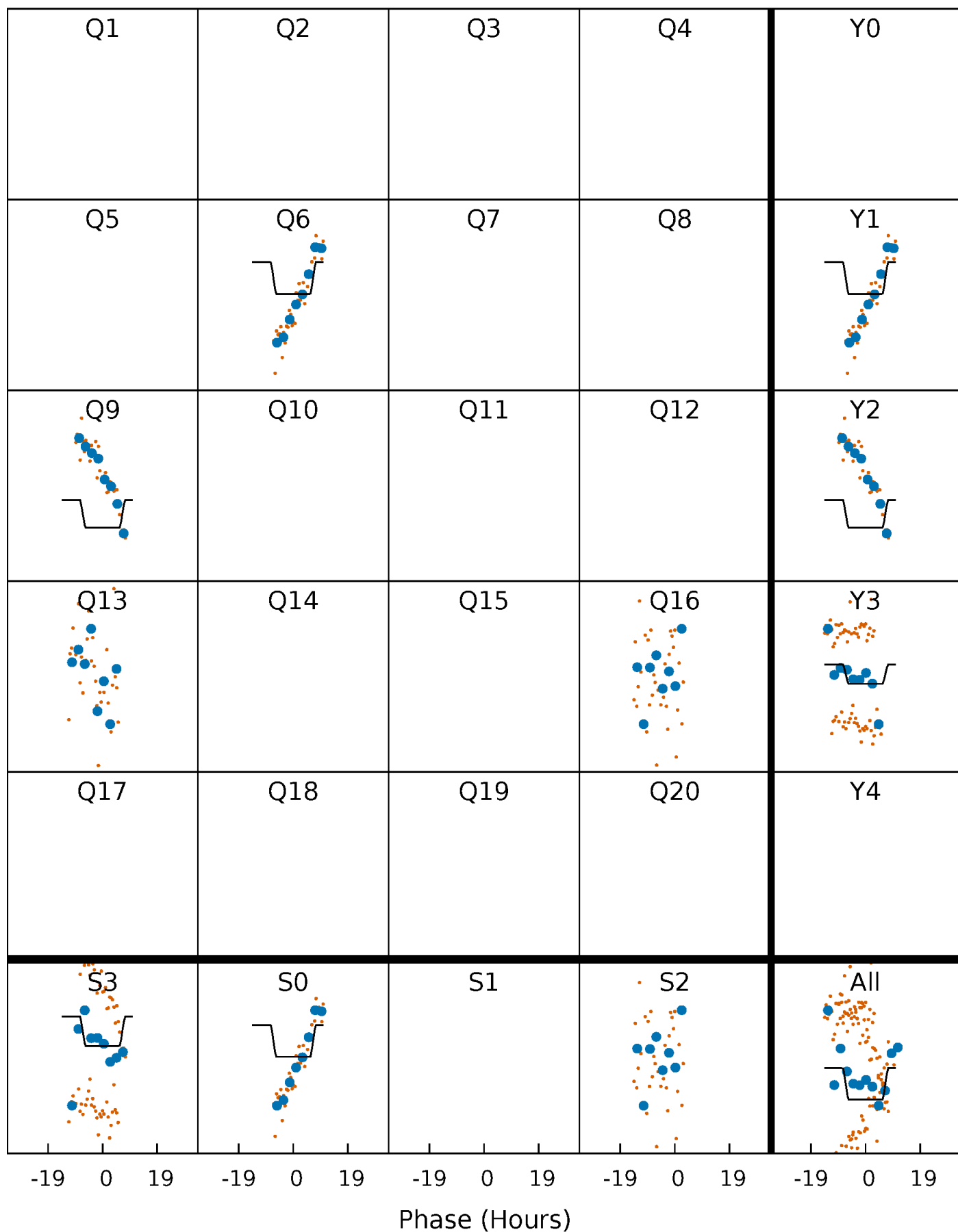
DV Quarter-Phased Transit Curves

TCE 006801692-03 P=320.602011 Days $T_0=235.396020$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

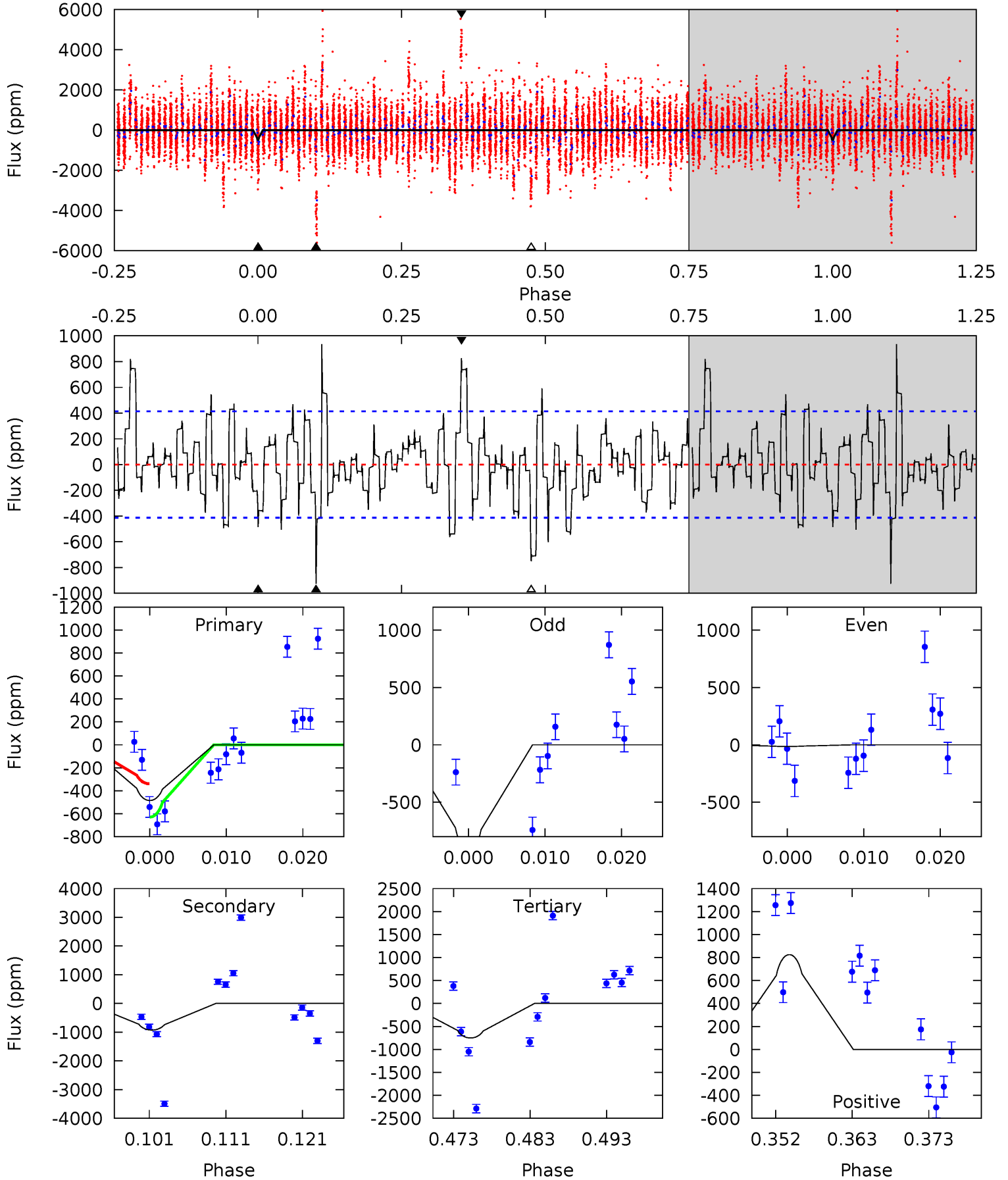
TCE 006801692-03 P=320.827325 Days $T_0=234.905019$ (BKJD)



DV Model-Shift Uniqueness Test

006801692-03, P = 320.602011 Days, E = 235.396020 Days

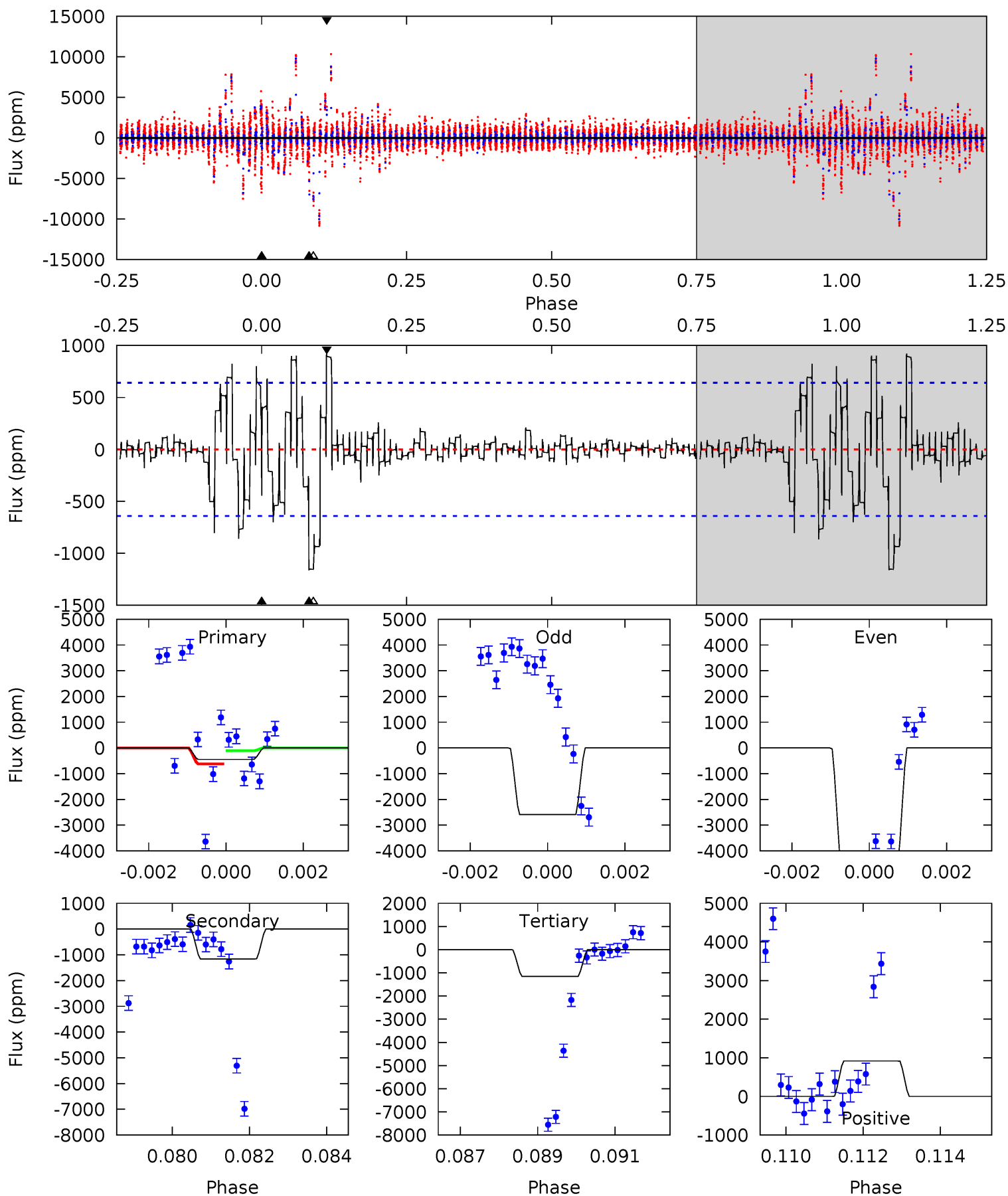
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.89	11.3	9.13	10.0	5.02	2.57	2.89	-3.24	-4.13	2.13	1.24	5.55	1.01	0.50	1.78



Alt Model-Shift Uniqueness Test

006801692-03, P = 320.827325 Days, E = 234.905019 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.68	9.63	9.57	7.61	5.32	3.07	1.84	-5.90	-3.93	0.06	2.02	7.04	1.53	0.44	2.09



Stellar Parameters For KIC 006801692

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5057^{+176}_{-176}	$4.573^{+0.072}_{-0.048}$	$-0.440^{+0.300}_{-0.300}$	$0.704^{+0.072}_{-0.072}$	$0.676^{+0.093}_{-0.043}$	$2.732^{+0.917}_{-0.479}$
	+3%/-3%	+2%/-1%	+68%/-68%	+10%/-10%	+14%/-6%	+34%/-18%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006801692-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-927 ± 82	$4.99^{+4.76}_{-3.30}$	290^{+12}_{-13}	3783^{+2068}_{-703}	$13805^{+104867}_{-10140}$
Alt.	-1161 ± 121	$5.33^{+5.01}_{-3.41}$	290^{+11}_{-13}	3838^{+2102}_{-713}	$14673^{+106499}_{-10787}$

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 $A_{obs} \gg 1.0$

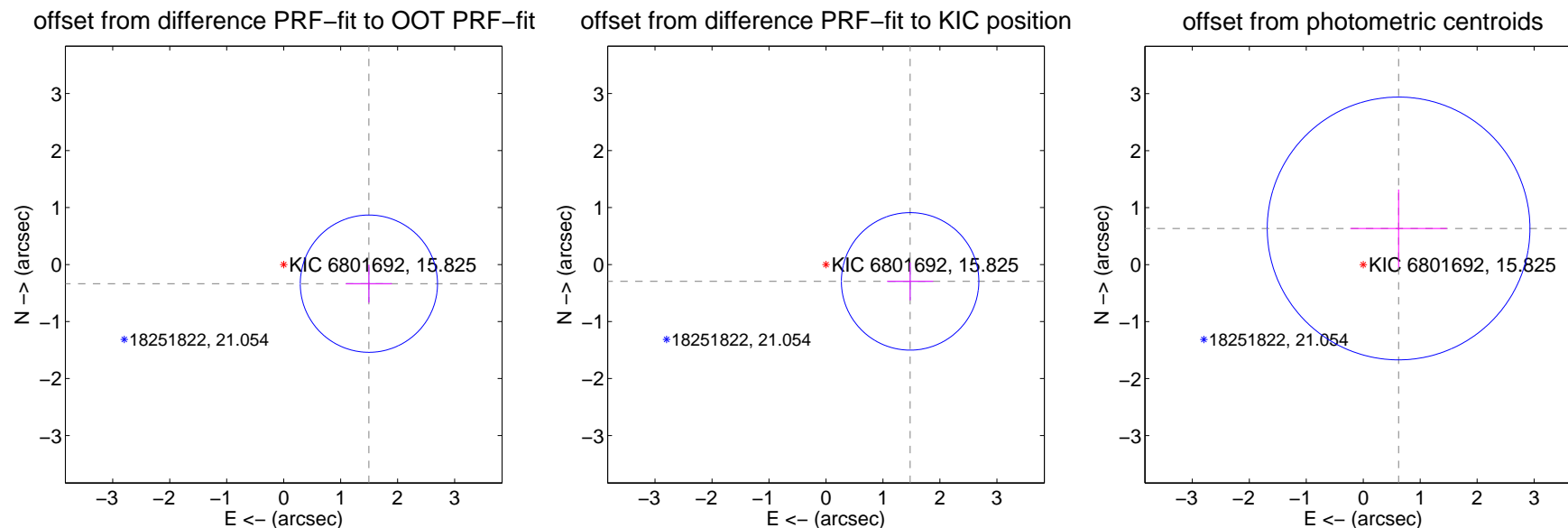
DV Centroid Data

Supplemental centroid analysis for 006801692-03. Kepler magnitude: 15.82. Transit SNR 7.95

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.533 ± 0.401	3.82	-1.495 ± 0.405	-0.336 ± 0.333
PRF-fit source offset from KIC position	1.506 ± 0.402	3.75	-1.477 ± 0.405	-0.295 ± 0.333
photometric centroid source offset	0.89 ± 0.77	1.15	-0.62 ± 0.85	0.63 ± 0.68

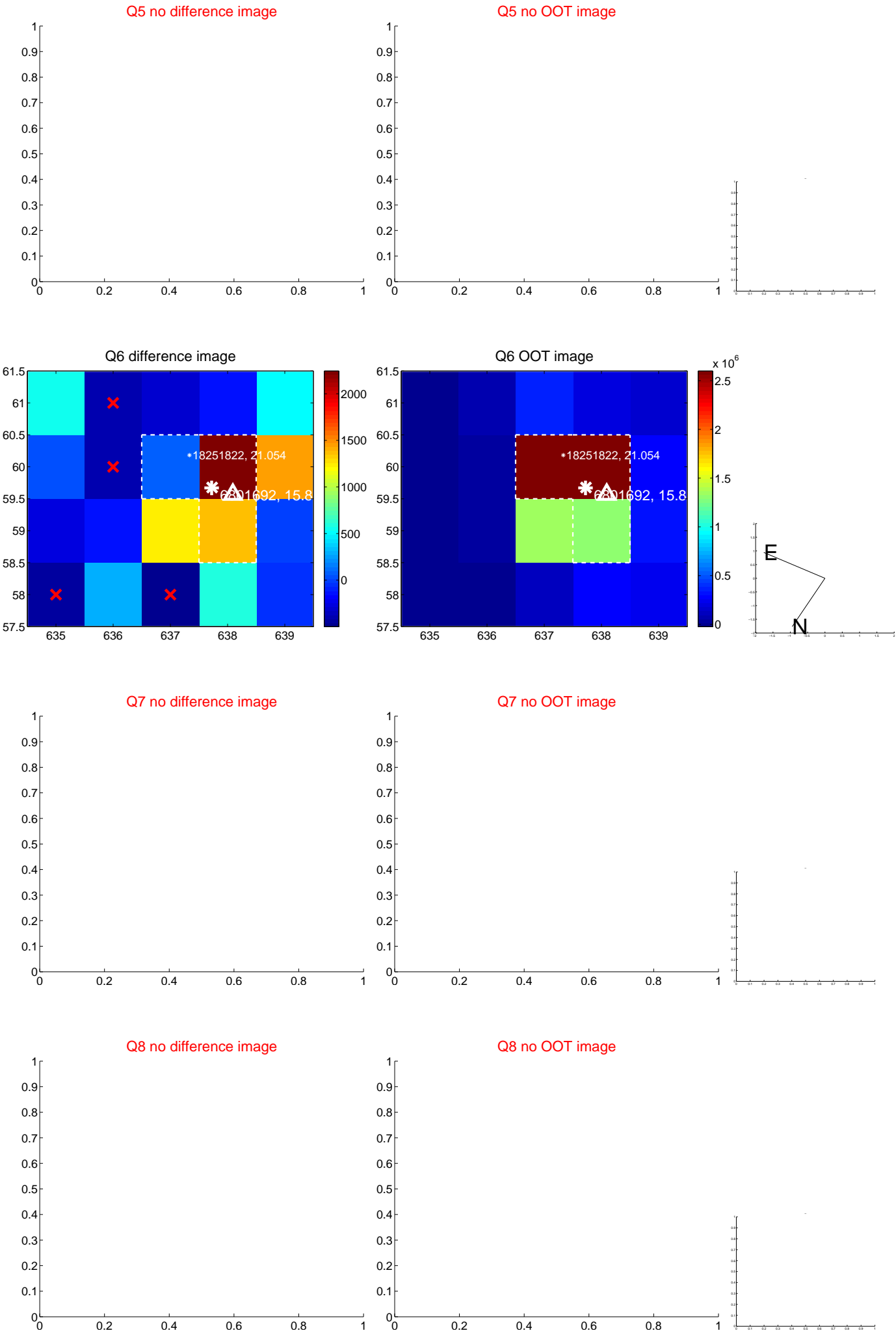


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . 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 ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



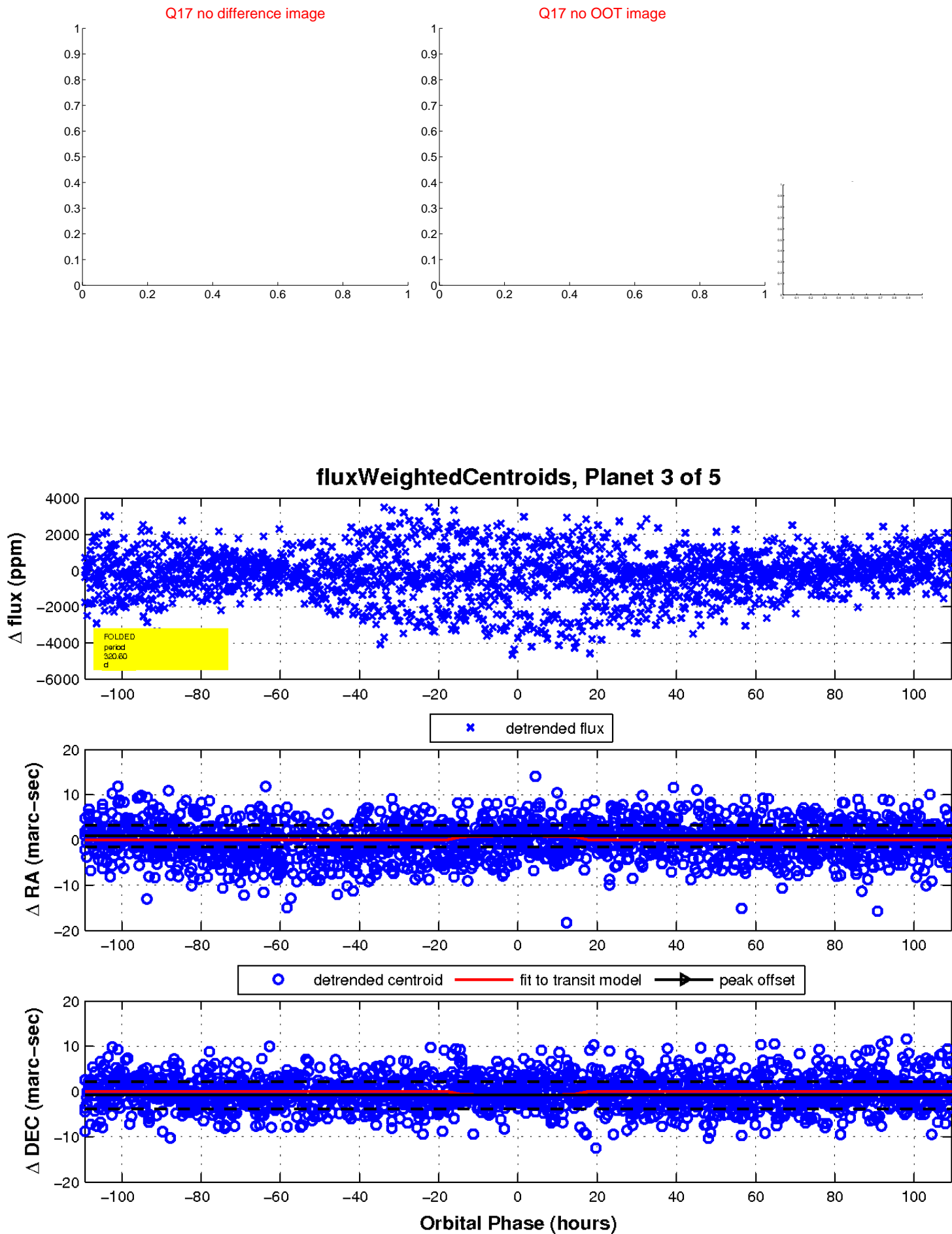
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



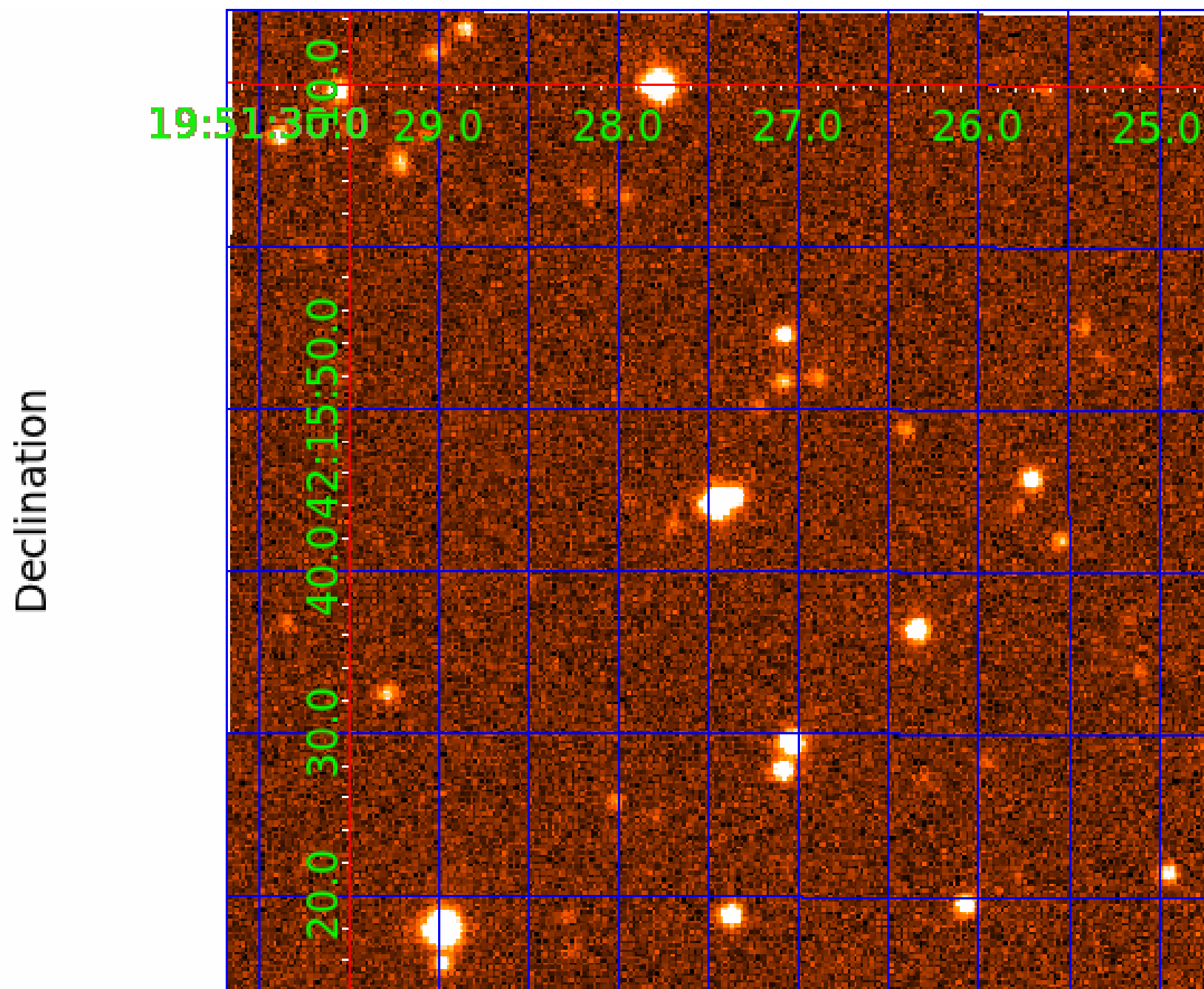
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 006801692

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})
006801692-01	OBS	No	3.239642	133.039603	109.9	19.862	8.8	8.9	0.70	5057	0.73	205.20
006801692-02	OBS	No	124.027545	212.900032	1454.6	21.381	13.1	10.5	0.70	5057	2.87	1.59
006801692-03	OBS	No	320.602011	235.396021	1305.9	36.497	12.3	7.9	0.70	5057	2.87	0.45
006801692-04	OBS	No	91.440160	160.763968	666.6	21.810	9.1	5.7	0.70	5057	1.90	2.39
006801692-05	OBS	No	69.257818	144.625596	1562.5	2.163	7.5	7.4	0.70	5057	4.33	3.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006801692-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006801692-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—HALO_GHOST
006801692-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006801692-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
006801692-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_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.

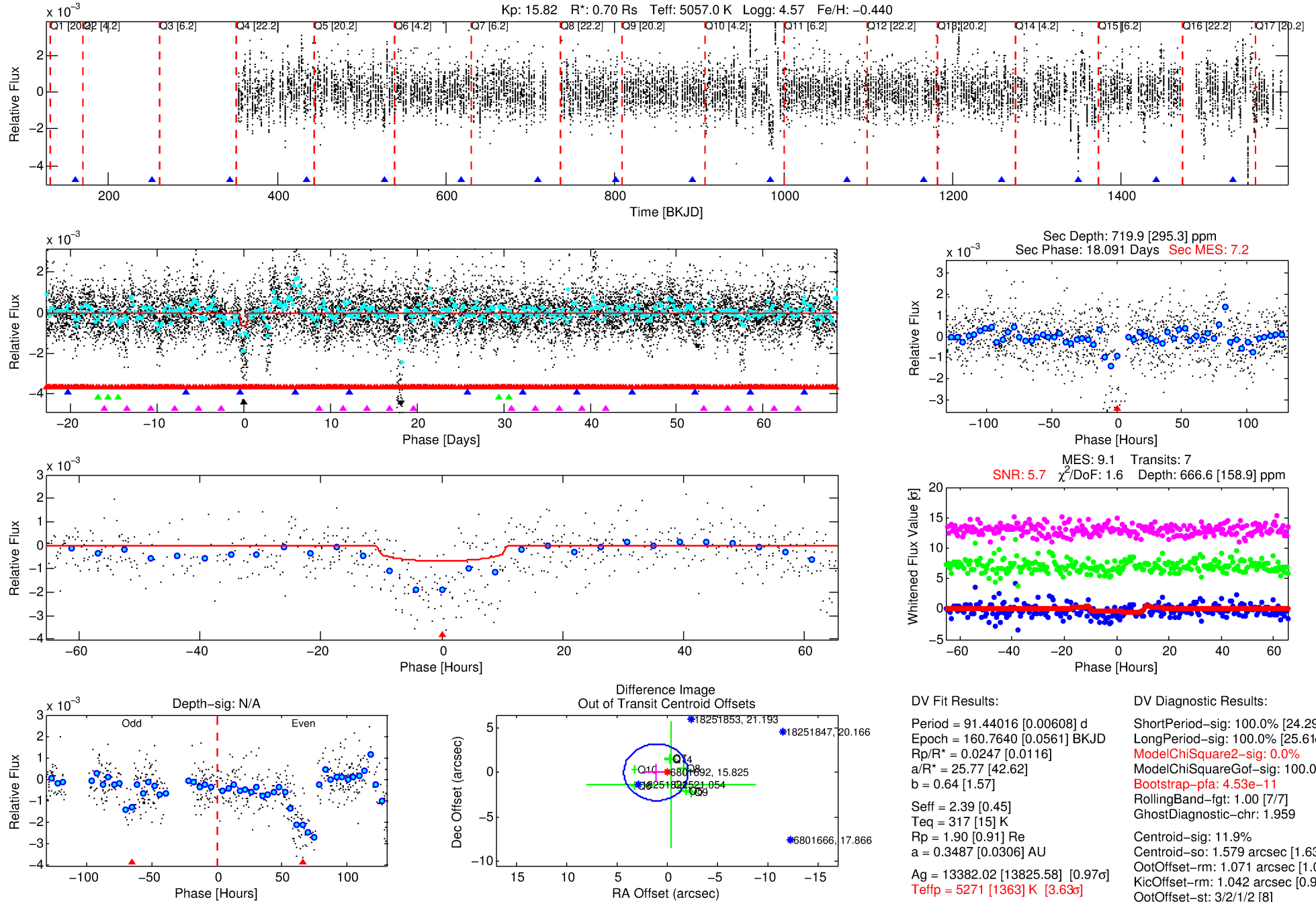
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006801692-04

No Significant Match Found

DV One-Page Summary

KIC: 6801692 Candidate: 4 of 5 Period: 91.440 d



DV Fit Results:

Period = 91.44016 [0.00608] d
Epoch = 160.7640 [0.0561] BKJD
Rp/R* = 0.0247 [0.0116]
a/R* = 25.77 [42.62]
b = 0.64 [1.57]
Seff = 2.39 [0.45]
Teq = 317 [15] K
Rp = 1.90 [0.91] Re
a = 0.3487 [0.0306] AU
Ag = 13382.02 [13825.58] [0.97] σ
Teffp = 5271 [1363] K [3.63] σ

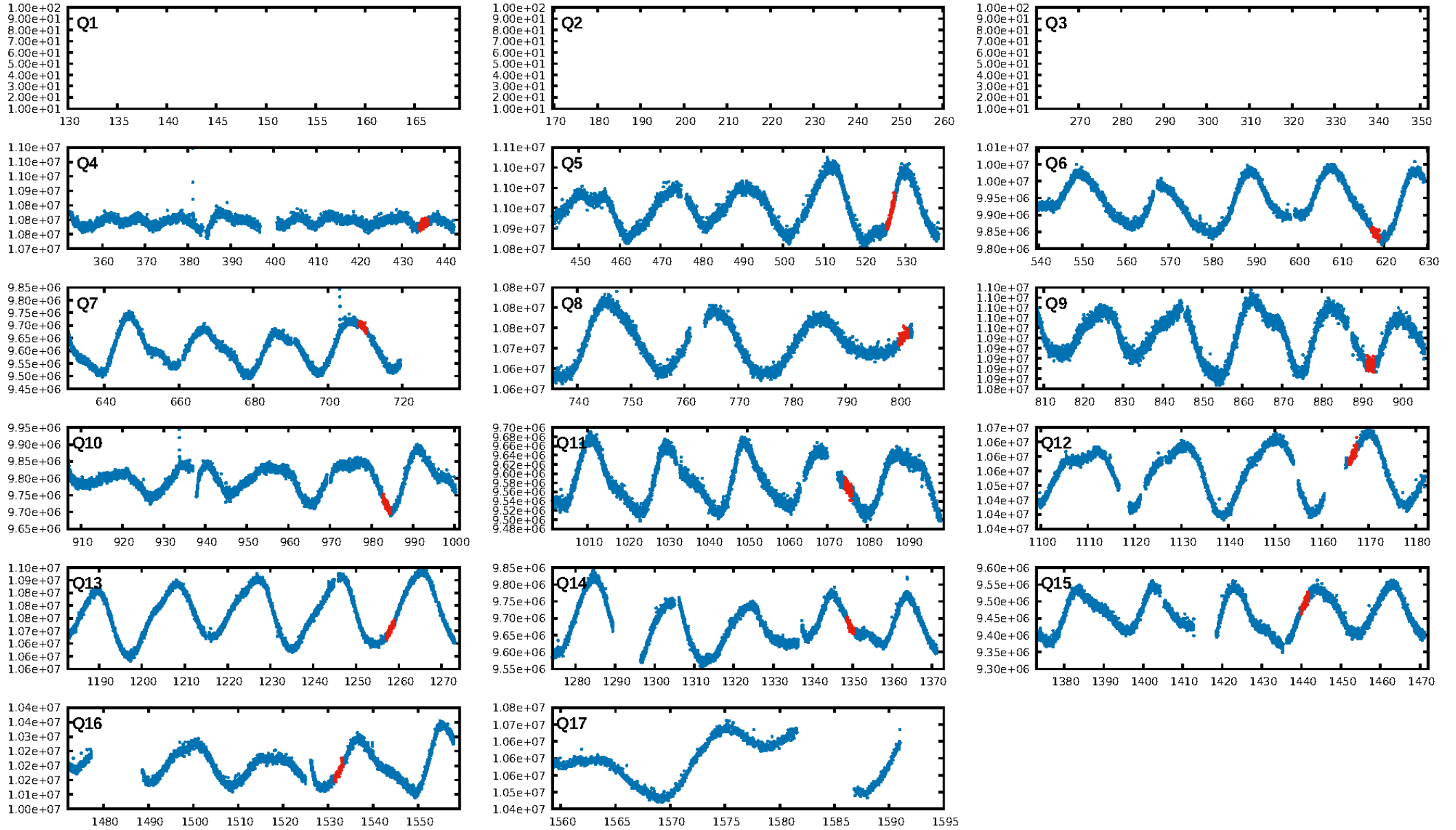
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [24.29 σ]
LongPeriod-sig: 100.0% [25.61 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 4.53e-11
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: 1.959
Centroid-sig: 11.9%
Centroid-so: 1.579 arcsec [1.63 σ]
OotOffset-rm: 1.071 arcsec [1.01 σ]
OotOffset-st: 3/2/1/2 [8]
KicOffset-rm: 1.042 arcsec [0.98 σ]
KicOffset-st: 3/2/1/2 [8]
DiffImageQuality-fgm: 0.38 [3/8]
DiffImageOverlap-fno: 0.00 [0/10]

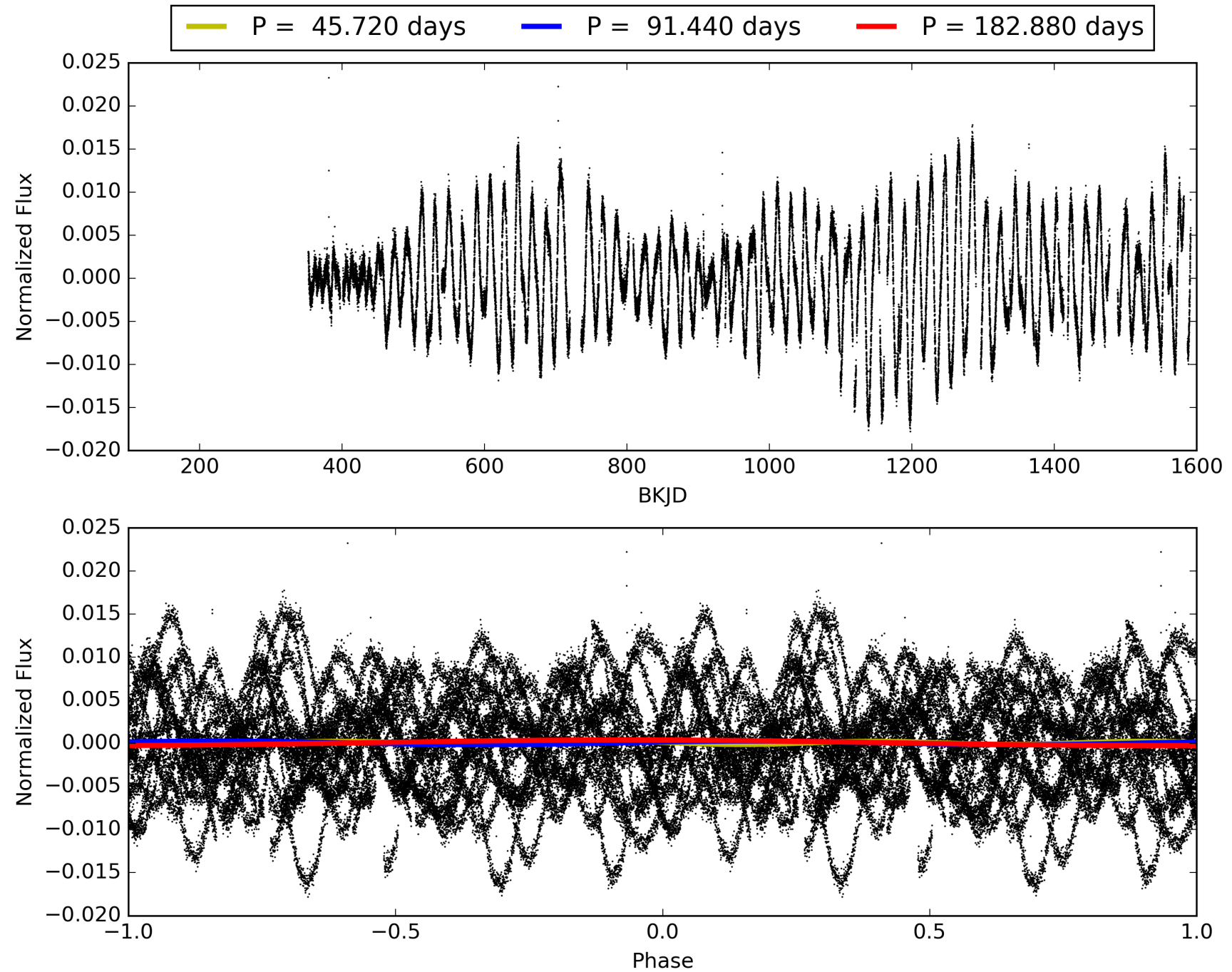
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 10:30:39 Z

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

TCE 006801692-04, PDC Light Curves

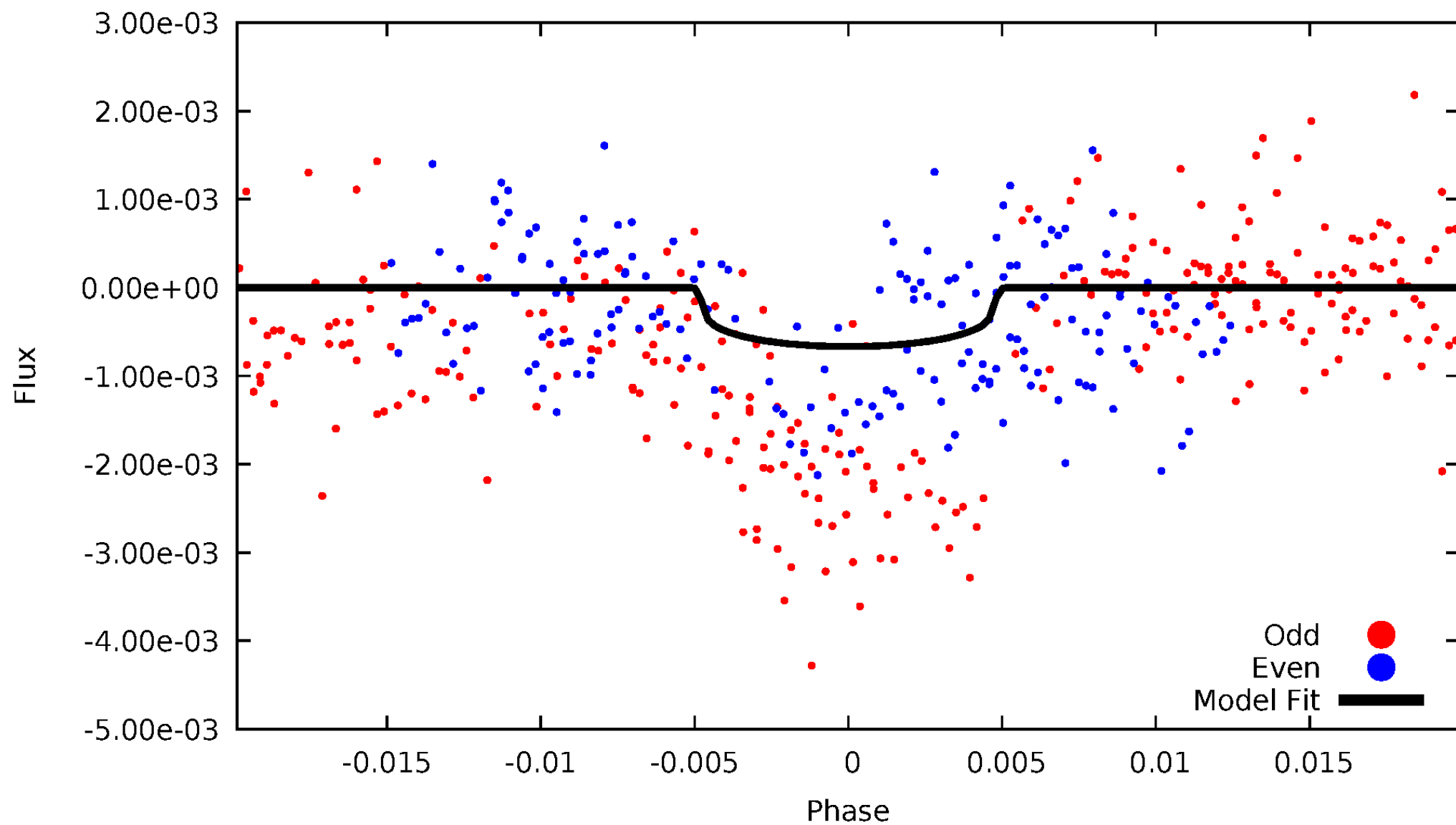


TCE 006801692-04



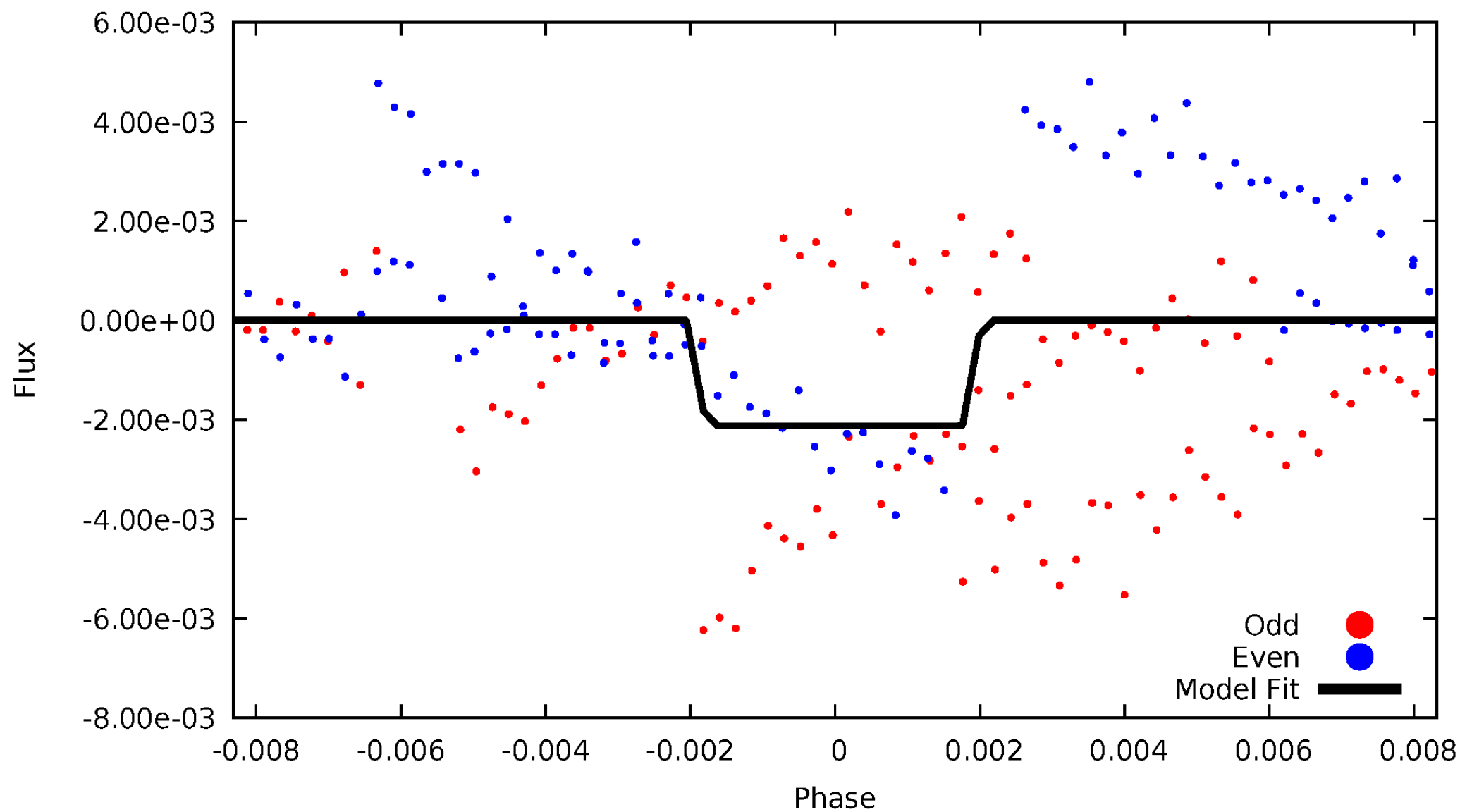
DV Odd/Even

TCE 006801692-04



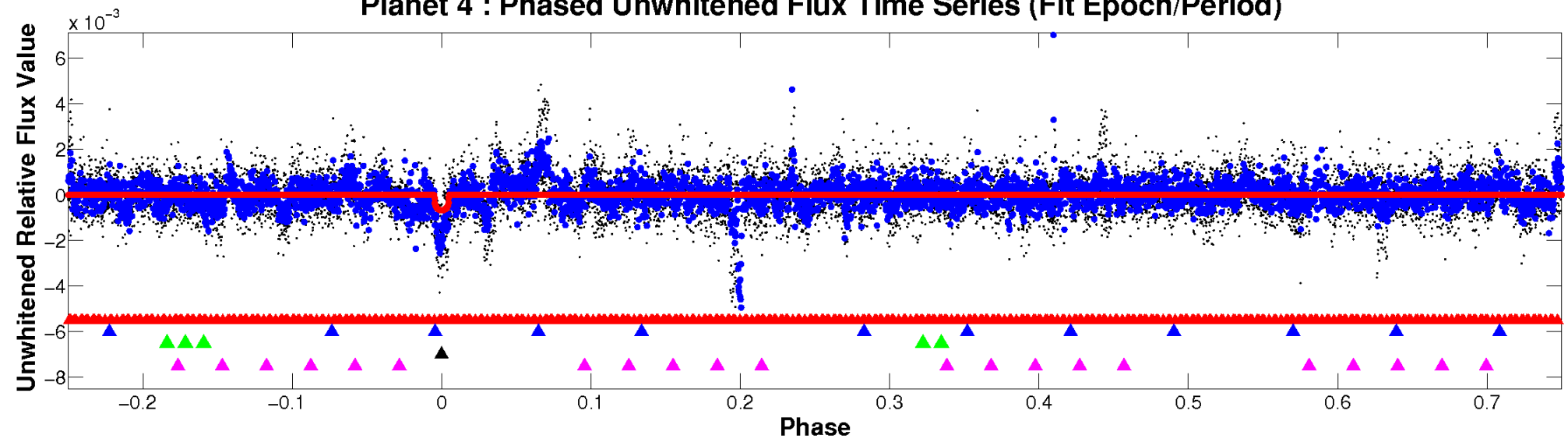
ALT Odd/Even

TCE 006801692-04

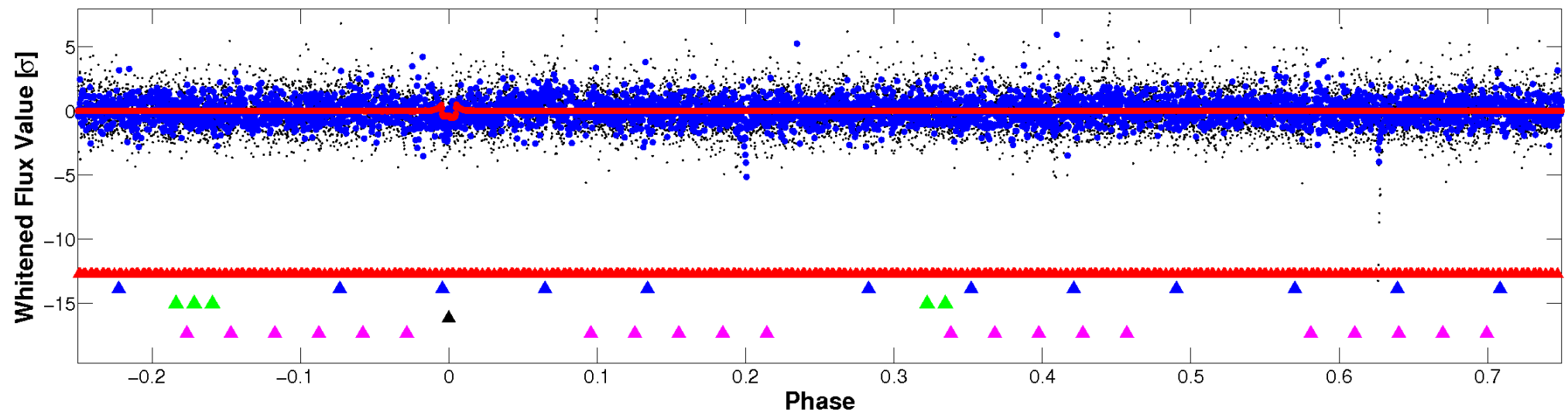


Non-Whitened Vs. Whitened Light Curve

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

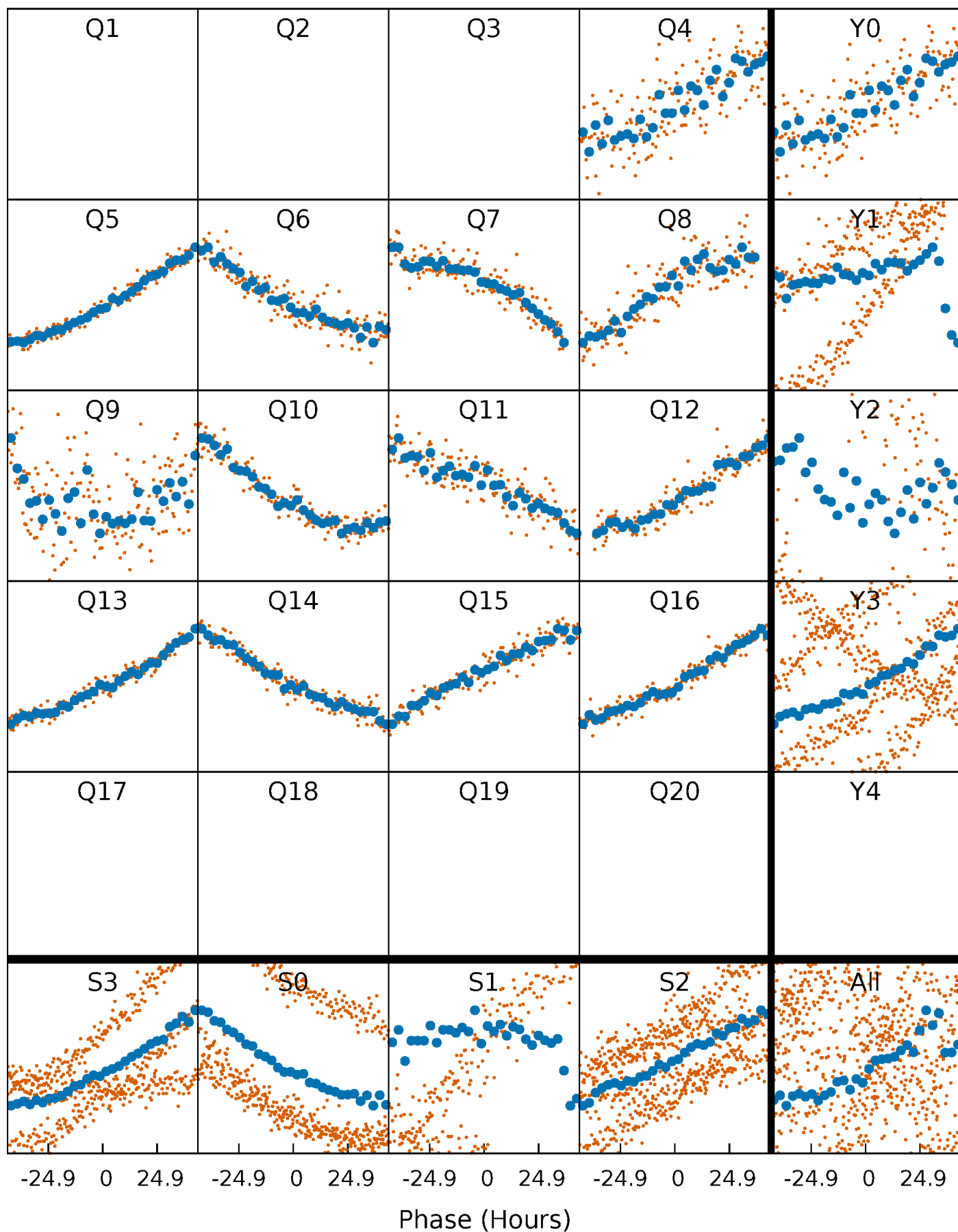


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



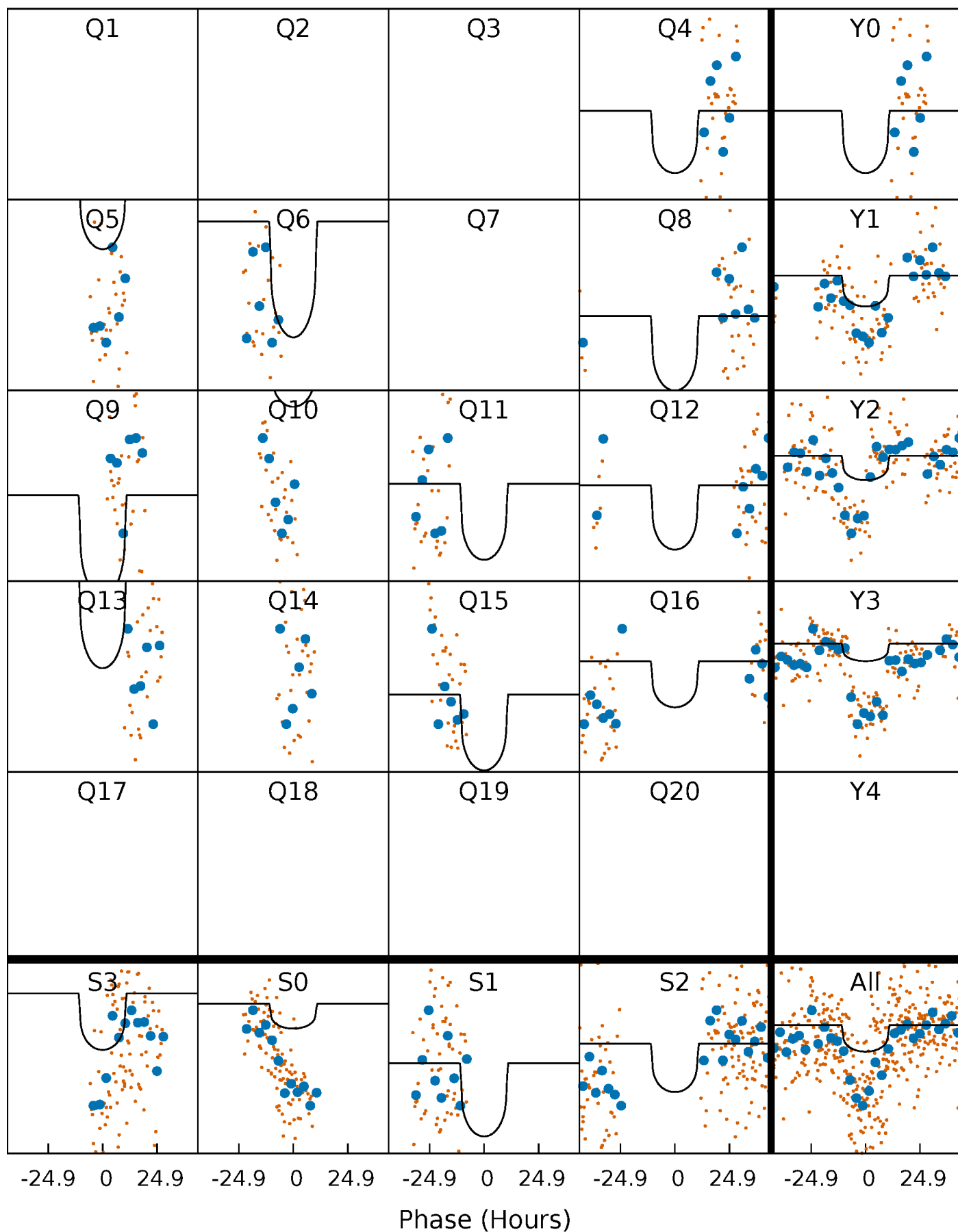
PDC Quarter-Phased Transit Curves

TCE 006801692-04 P= 91.440160 Days $T_0=160.763968$ (BKJD)



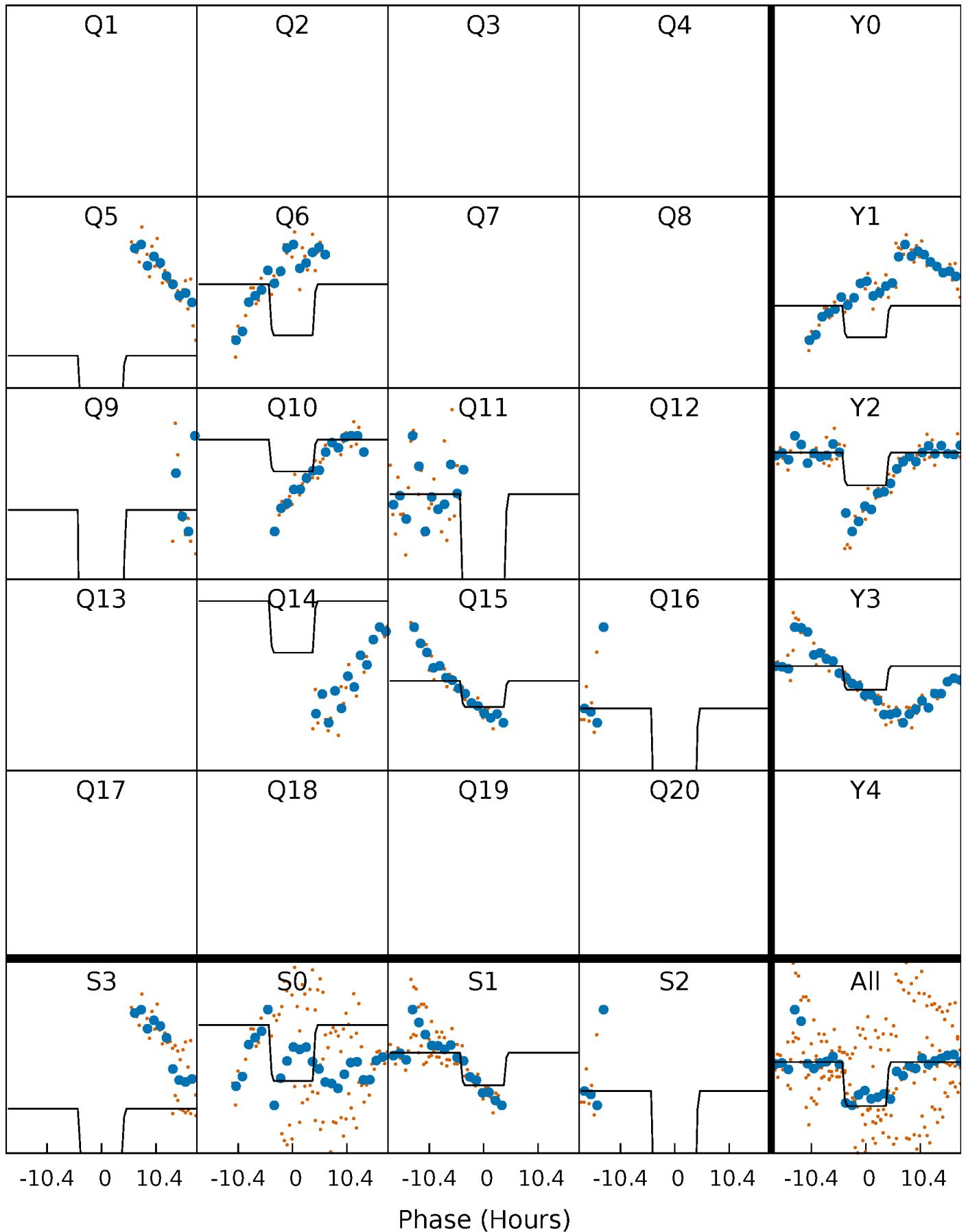
DV Quarter-Phased Transit Curves

TCE 006801692-04 $P = 91.440160$ Days $T_0 = 160.763968$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

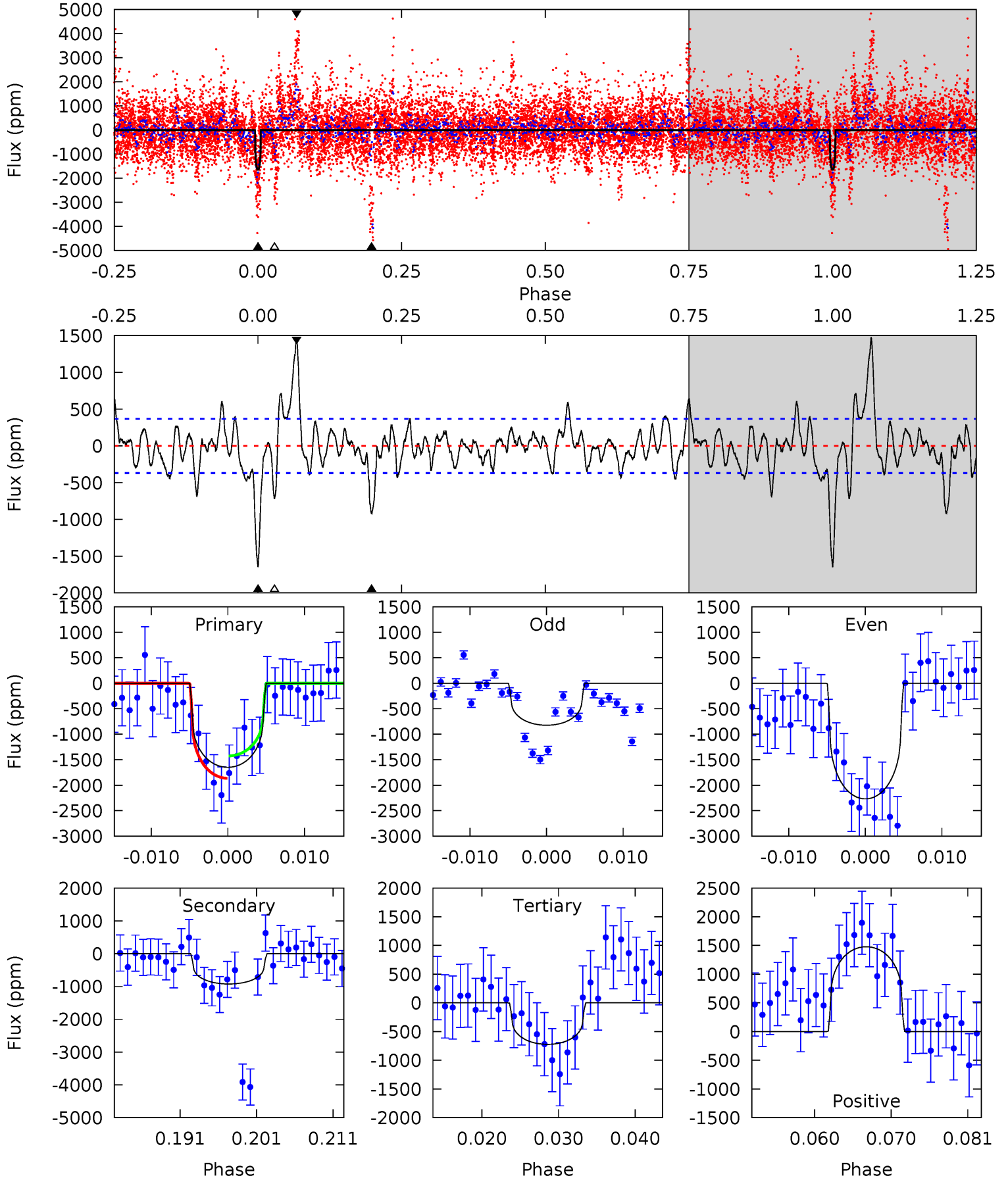
TCE 006801692-04 P= 91.440181 Days $T_0=160.289458$ (BKJD)



DV Model-Shift Uniqueness Test

006801692-04, P = 91.440160 Days, E = 160.763968 Days

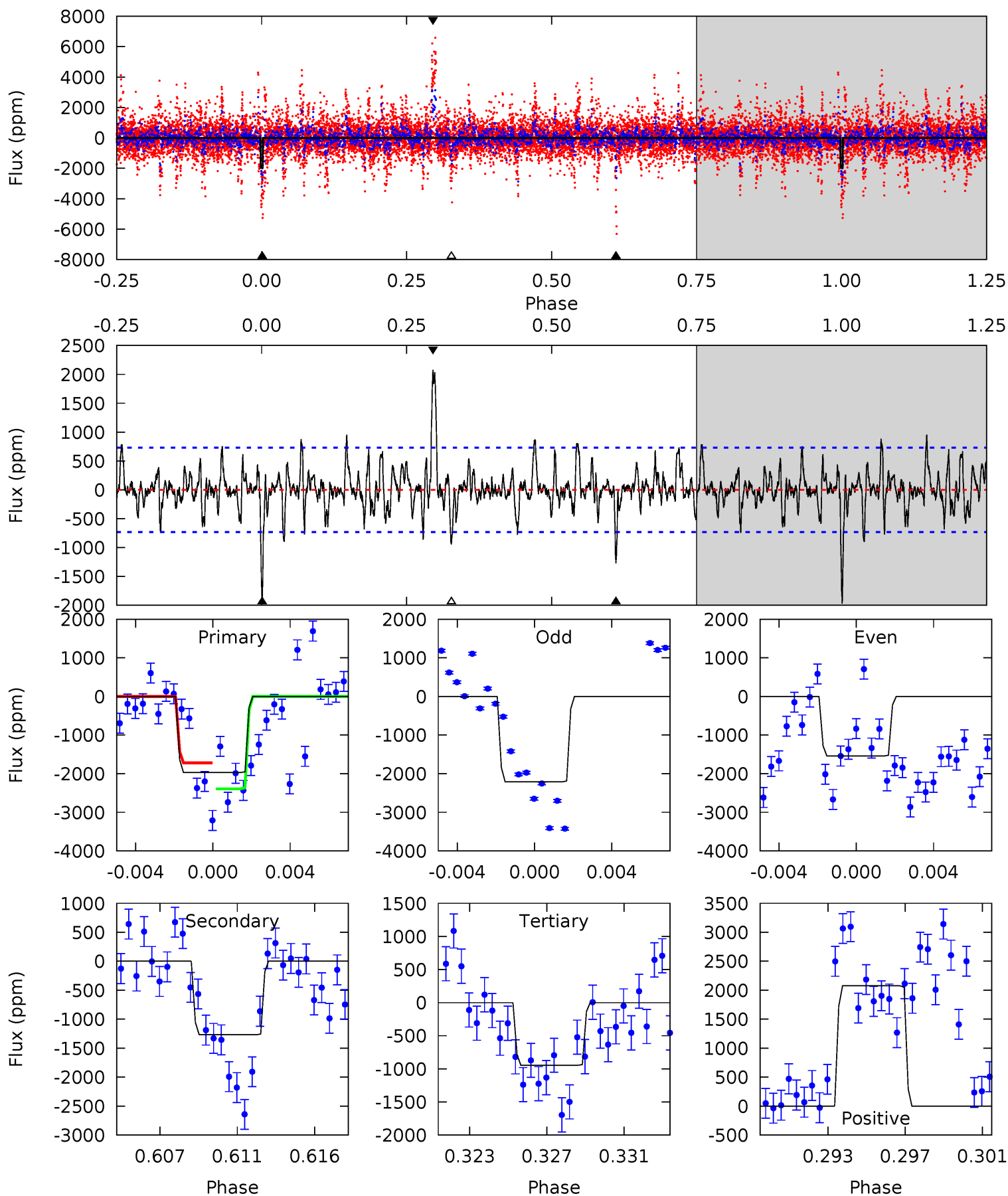
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.5	12.6	9.85	20.1	5.03	2.57	3.55	12.6	2.33	2.75	-7.53	9.89	0.96	0.47	2.99



Alt Model-Shift Uniqueness Test

006801692-04, P = 91.440181 Days, E = 160.289458 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.0	9.00	6.70	14.7	5.19	2.86	2.10	7.28	-0.74	2.30	-5.72	2.33	0.88	0.51	2.35



Stellar Parameters For KIC 006801692

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5057^{+176}_{-176}	$4.573^{+0.072}_{-0.048}$	$-0.440^{+0.300}_{-0.300}$	$0.704^{+0.072}_{-0.072}$	$0.676^{+0.093}_{-0.043}$	$2.732^{+0.917}_{-0.479}$
	+3%/-3%	+2%/-1%	+68%/-68%	+10%/-10%	+14%/-6%	+34%/-18%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006801692-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-925 ± 73	$1.93^{+0.84}_{-0.89}$	440^{+19}_{-19}	5471^{+2114}_{-748}	16870^{+40510}_{-8677}
Alt.	-1270 ± 141	$3.52^{+0.94}_{-0.90}$	440^{+22}_{-18}	4550^{+613}_{-417}	6793^{+5566}_{-2513}

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

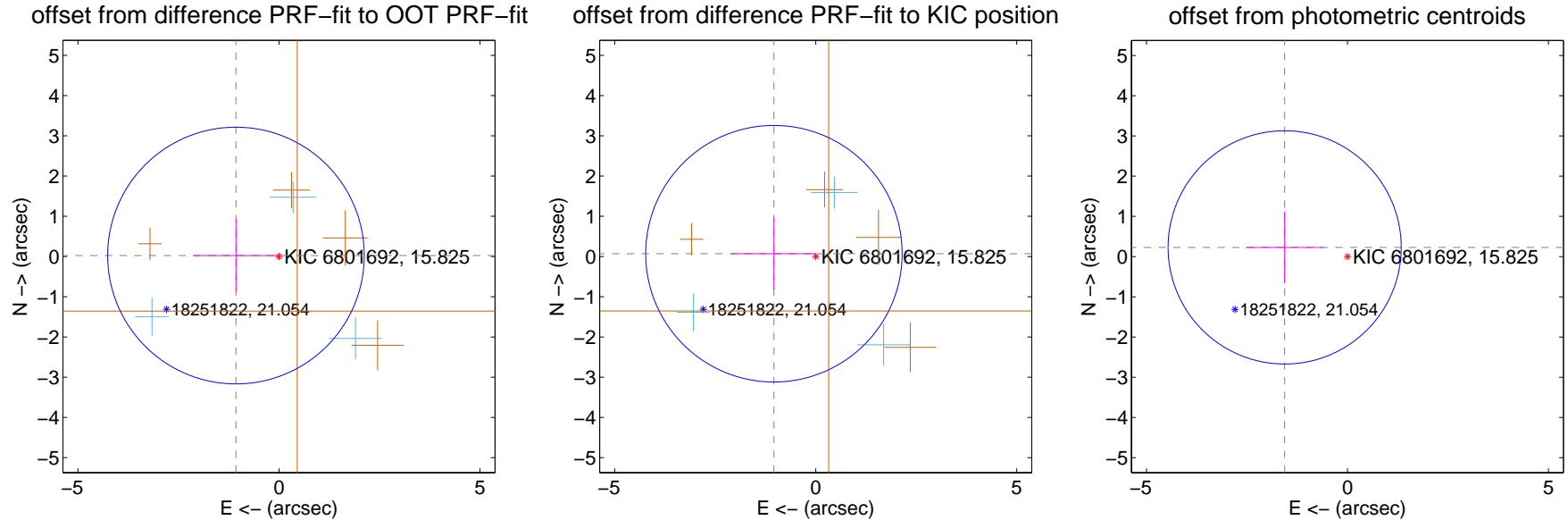
DV Centroid Data

Supplemental centroid analysis for 006801692-04. Kepler magnitude: 15.82. Transit SNR 5.69

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.071 ± 1.064	1.01	1.070 ± 1.064	0.024 ± 0.901
PRF-fit source offset from KIC position	1.042 ± 1.063	0.98	1.040 ± 1.064	0.069 ± 0.901
photometric centroid source offset	1.58 ± 0.97	1.63	1.56 ± 0.97	0.23 ± 0.89

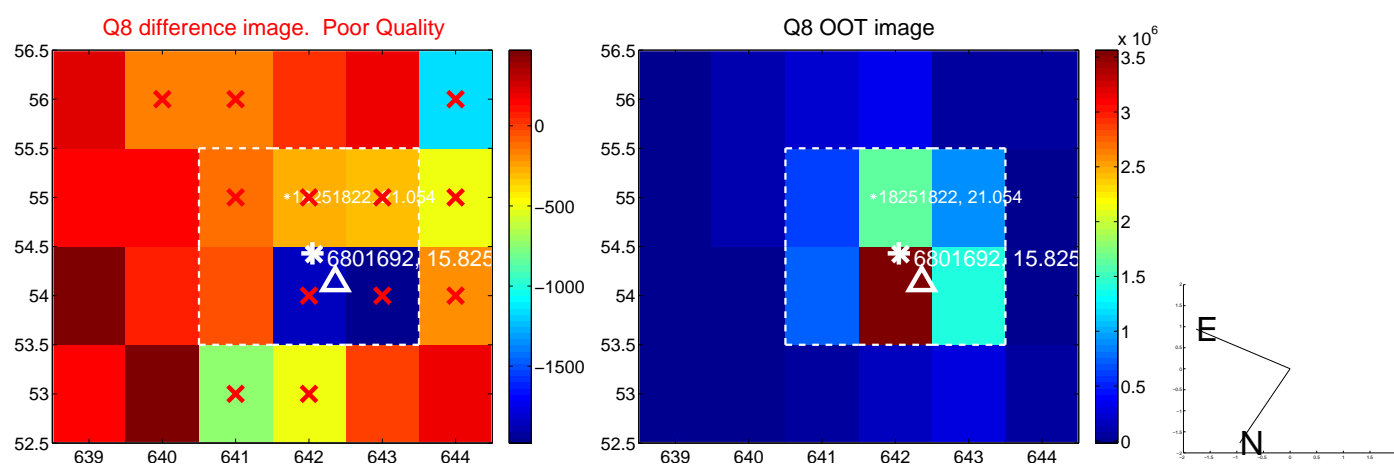
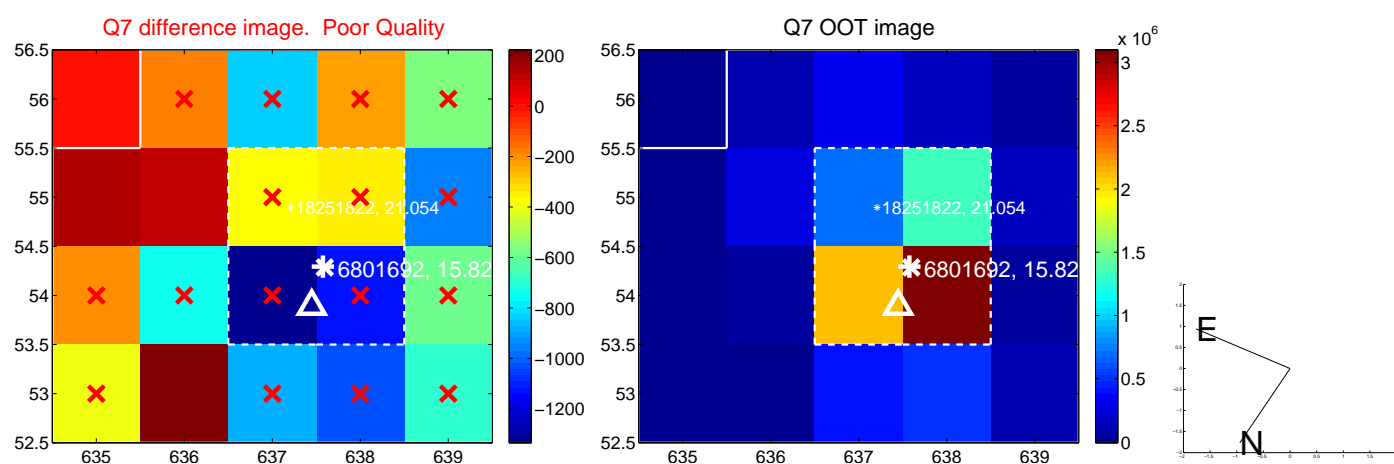
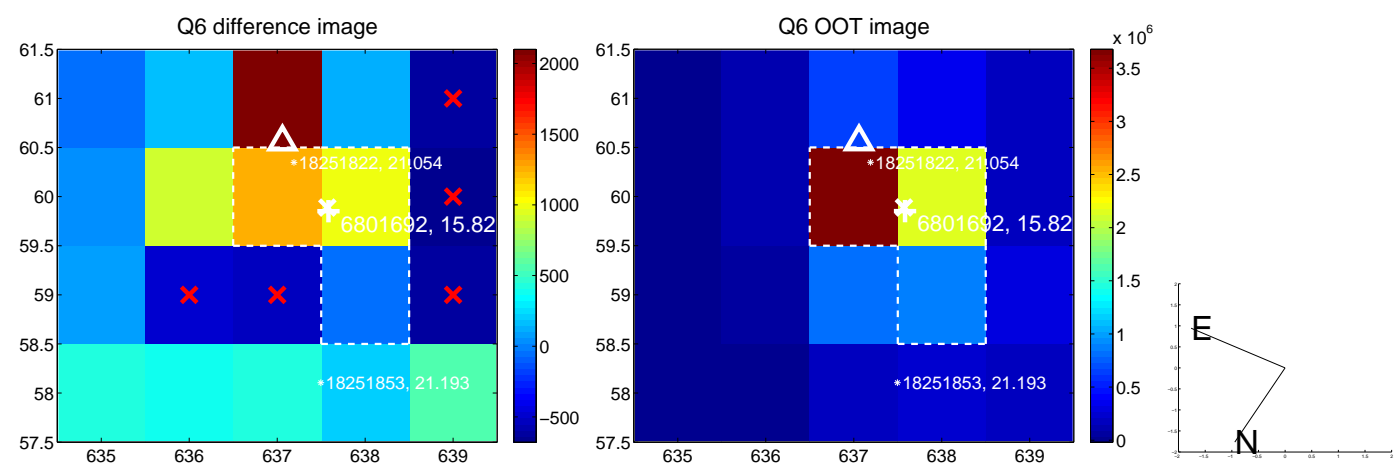
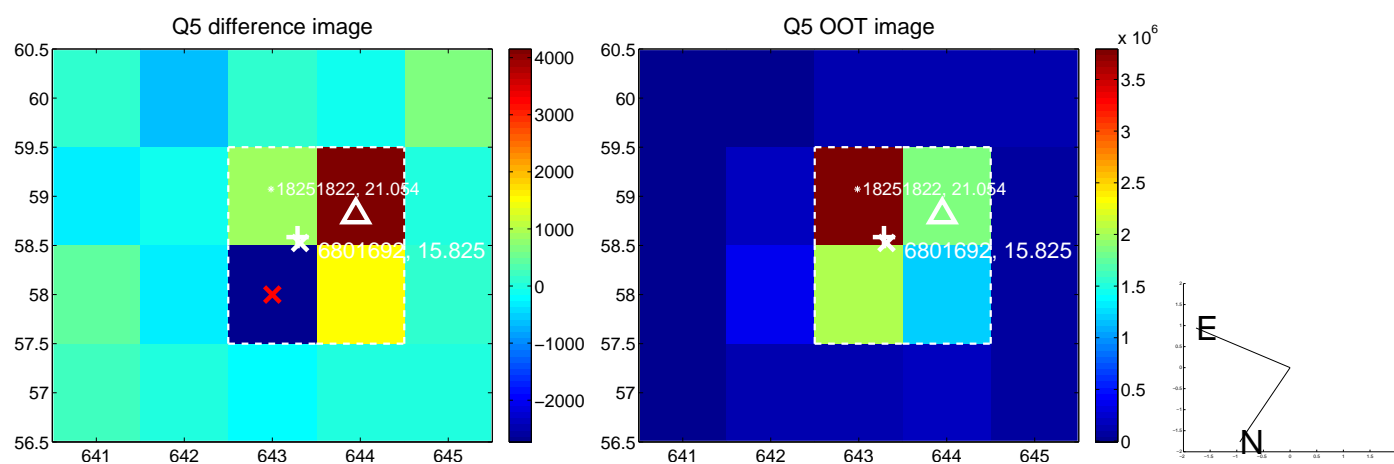


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

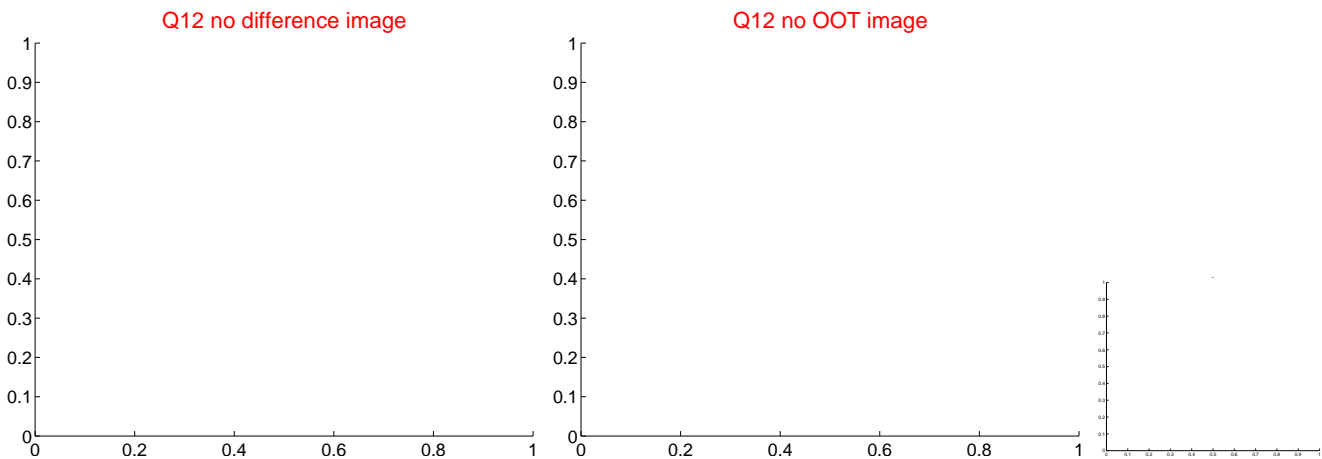
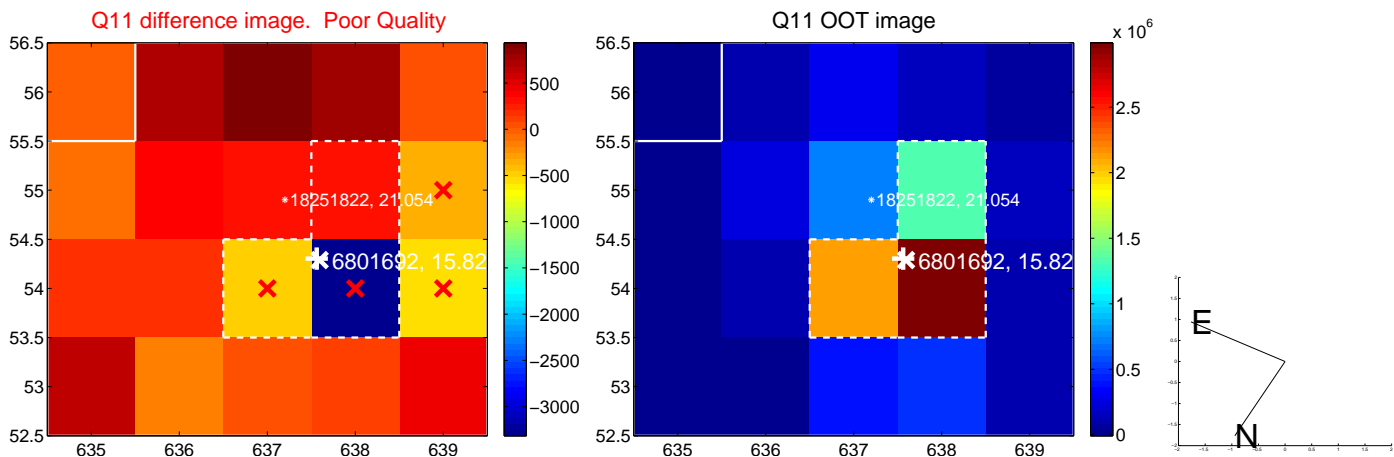
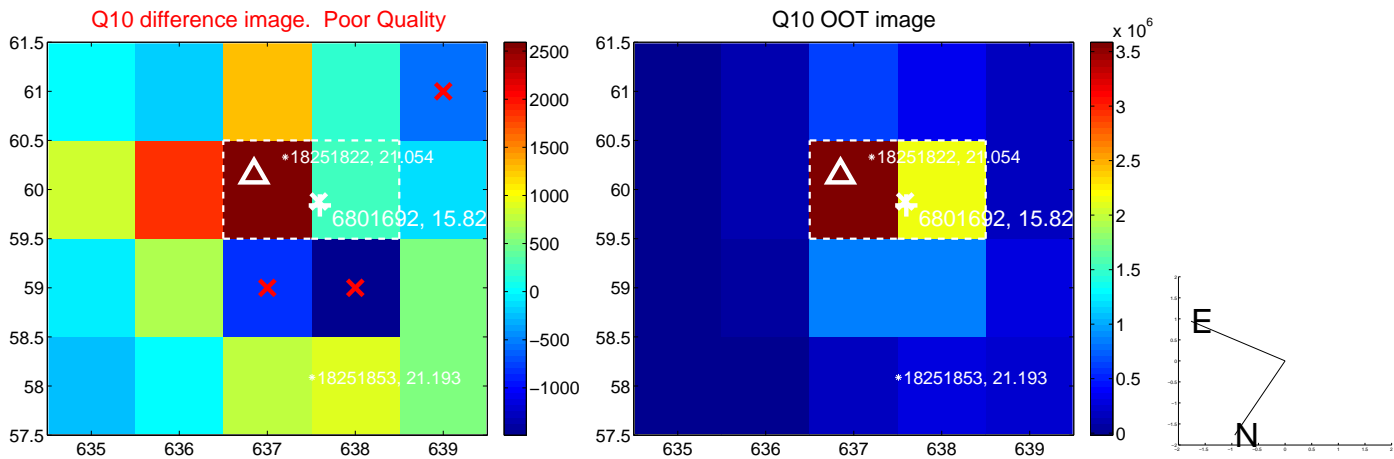
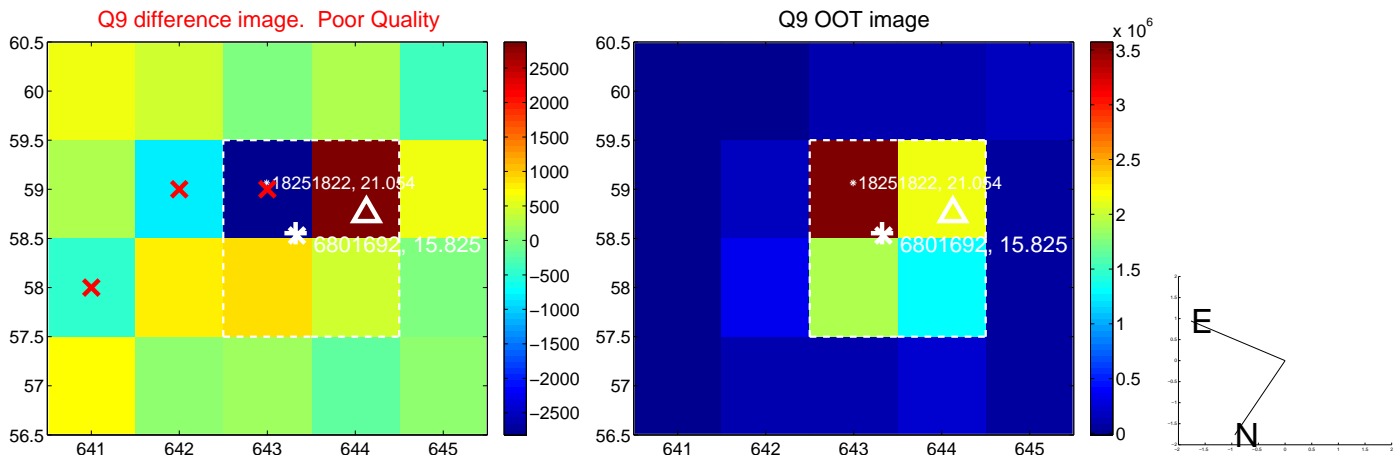
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



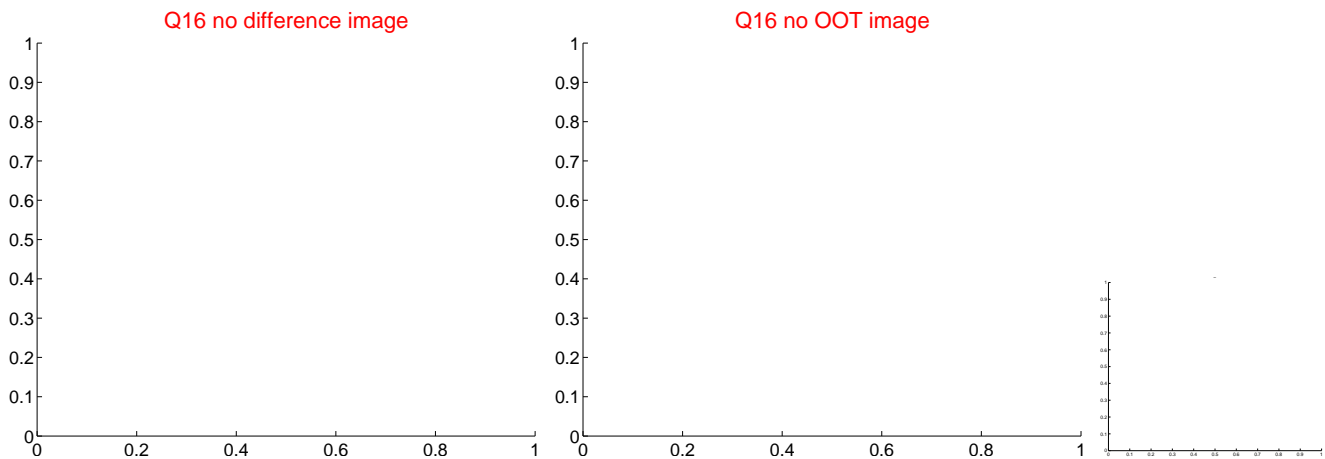
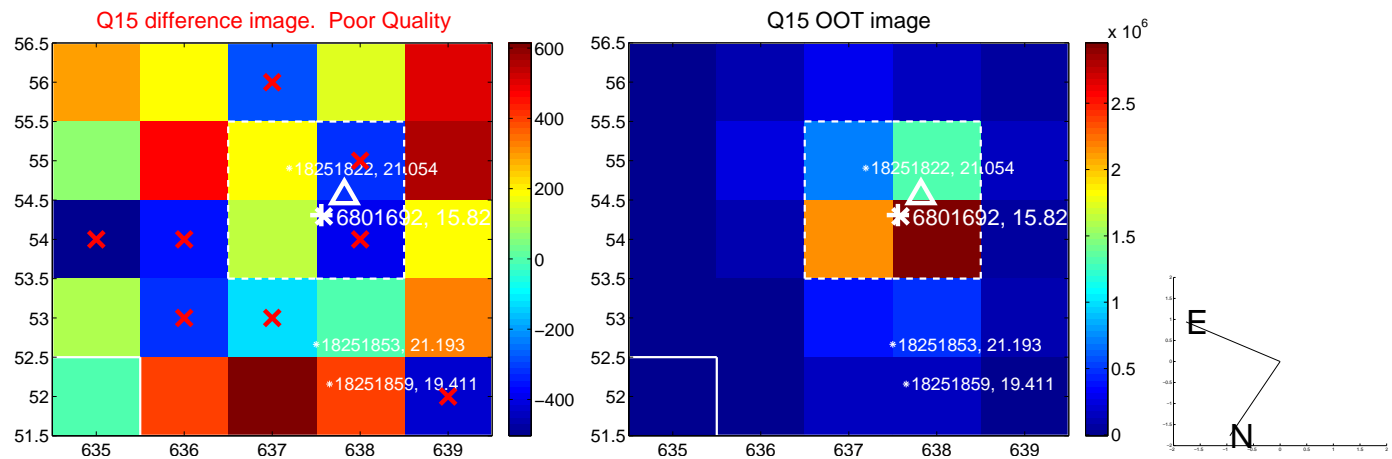
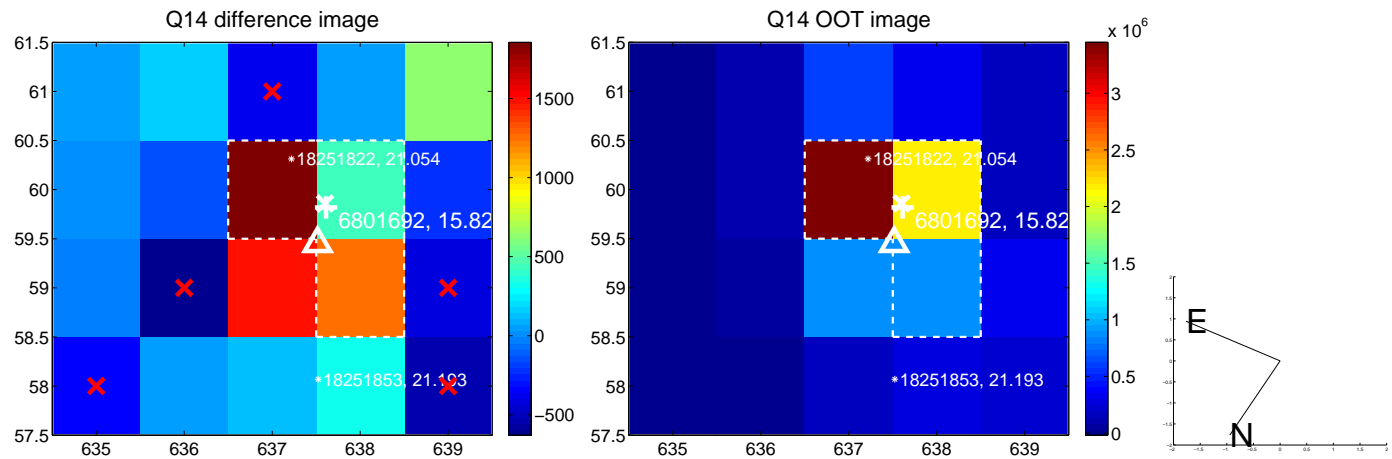
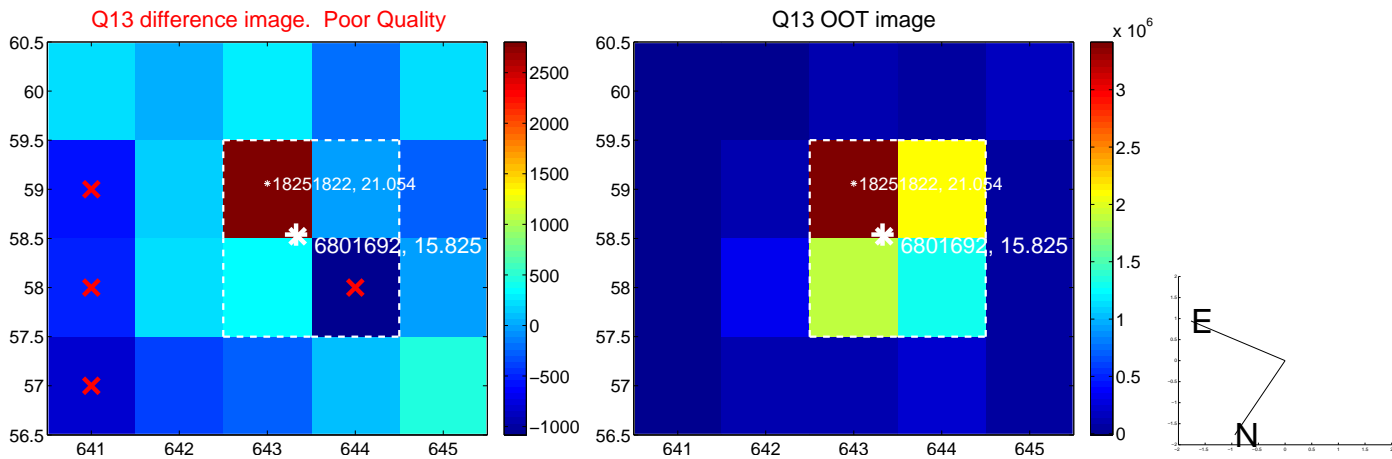
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



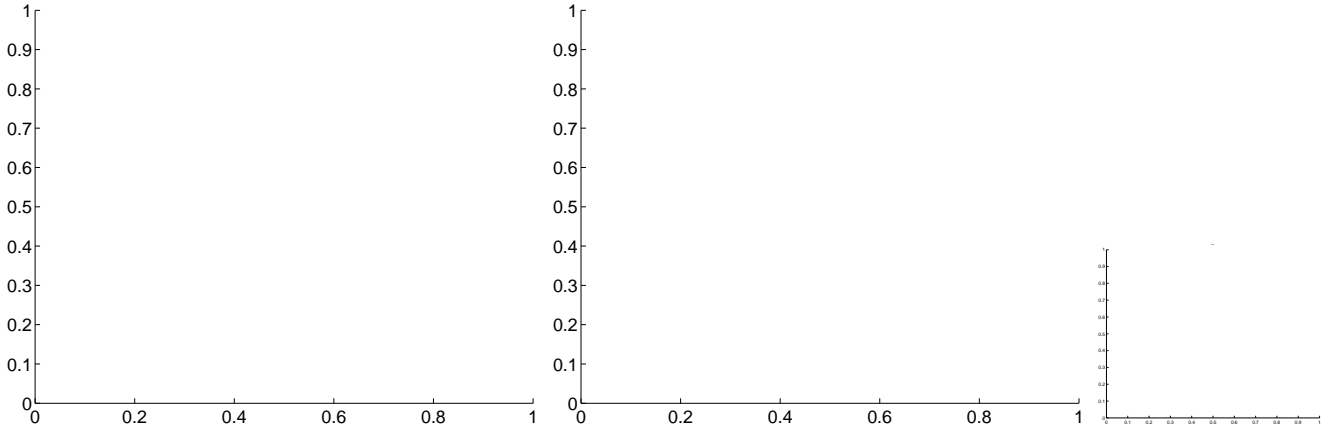
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



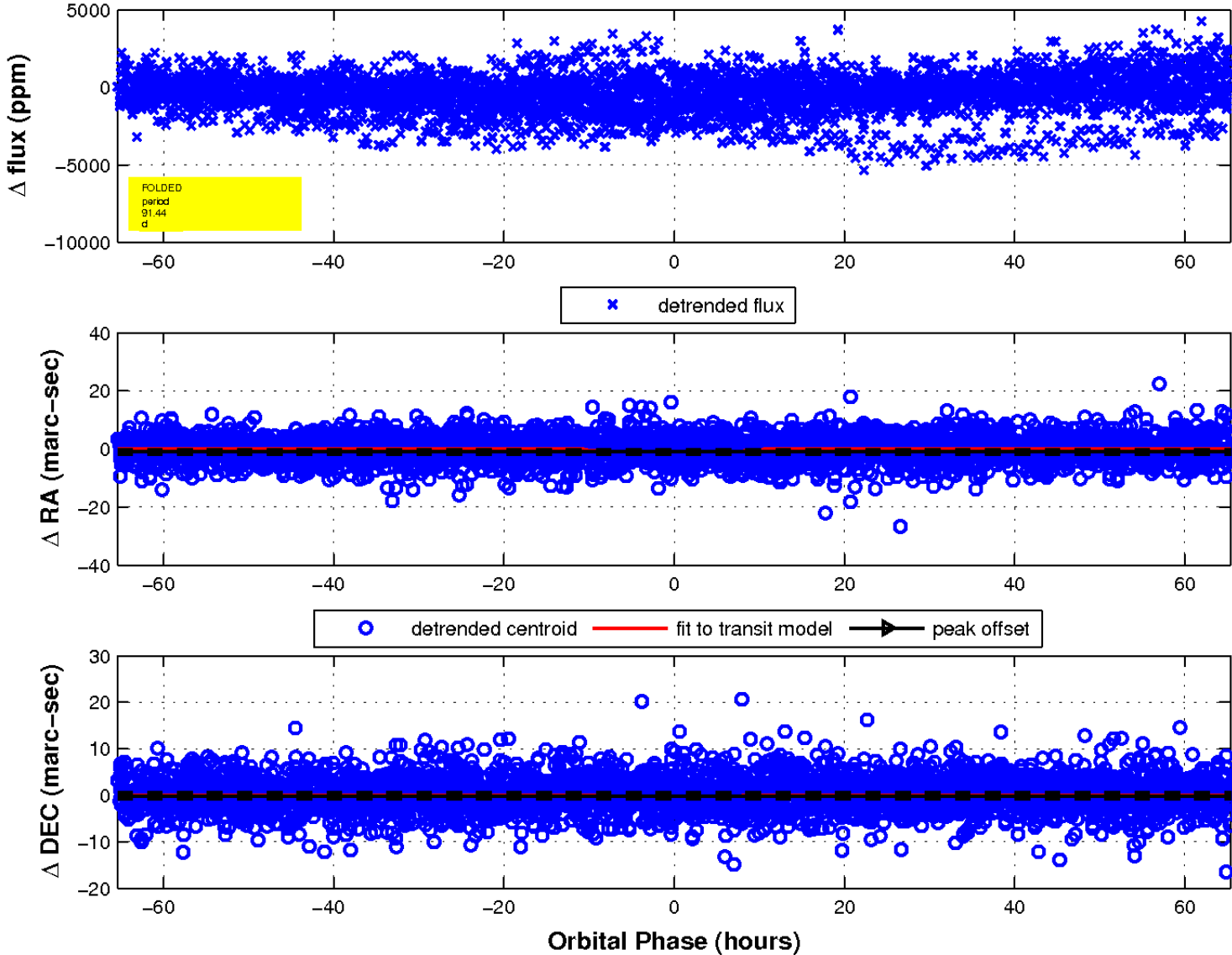
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

Q17 no difference image

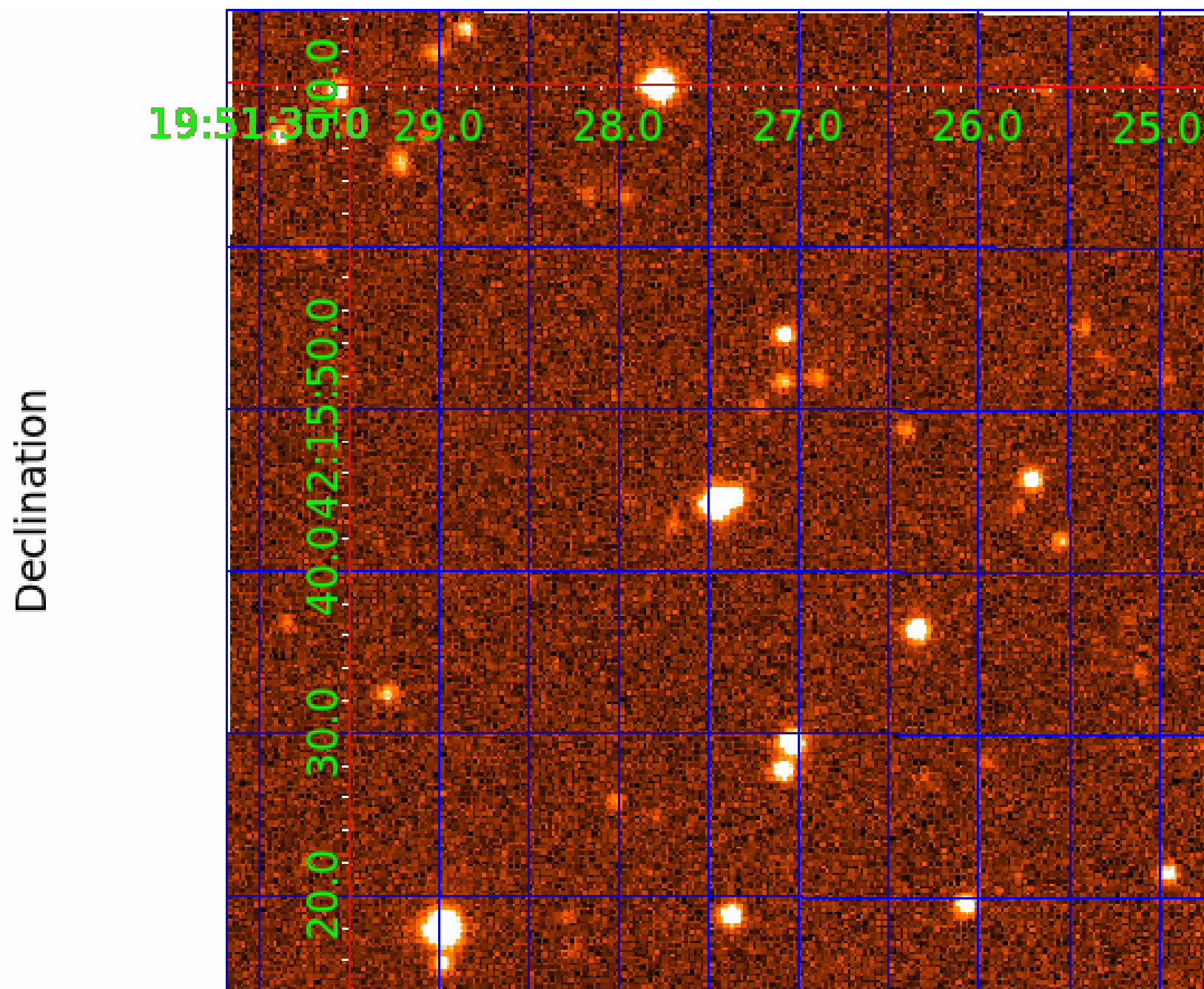
Q17 no OOT image



fluxWeightedCentroids, Planet 4 of 5



UKIRT Image



KIC 006801692

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})
006801692-01	OBS	No	3.239642	133.039603	109.9	19.862	8.8	8.9	0.70	5057	0.73	205.20
006801692-02	OBS	No	124.027545	212.900032	1454.6	21.381	13.1	10.5	0.70	5057	2.87	1.59
006801692-03	OBS	No	320.602011	235.396021	1305.9	36.497	12.3	7.9	0.70	5057	2.87	0.45
006801692-04	OBS	No	91.440160	160.763968	666.6	21.810	9.1	5.7	0.70	5057	1.90	2.39
006801692-05	OBS	No	69.257818	144.625596	1562.5	2.163	7.5	7.4	0.70	5057	4.33	3.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006801692-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006801692-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—INCONSISTENT_TRANS—HALO_GHOST
006801692-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006801692-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
006801692-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_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.

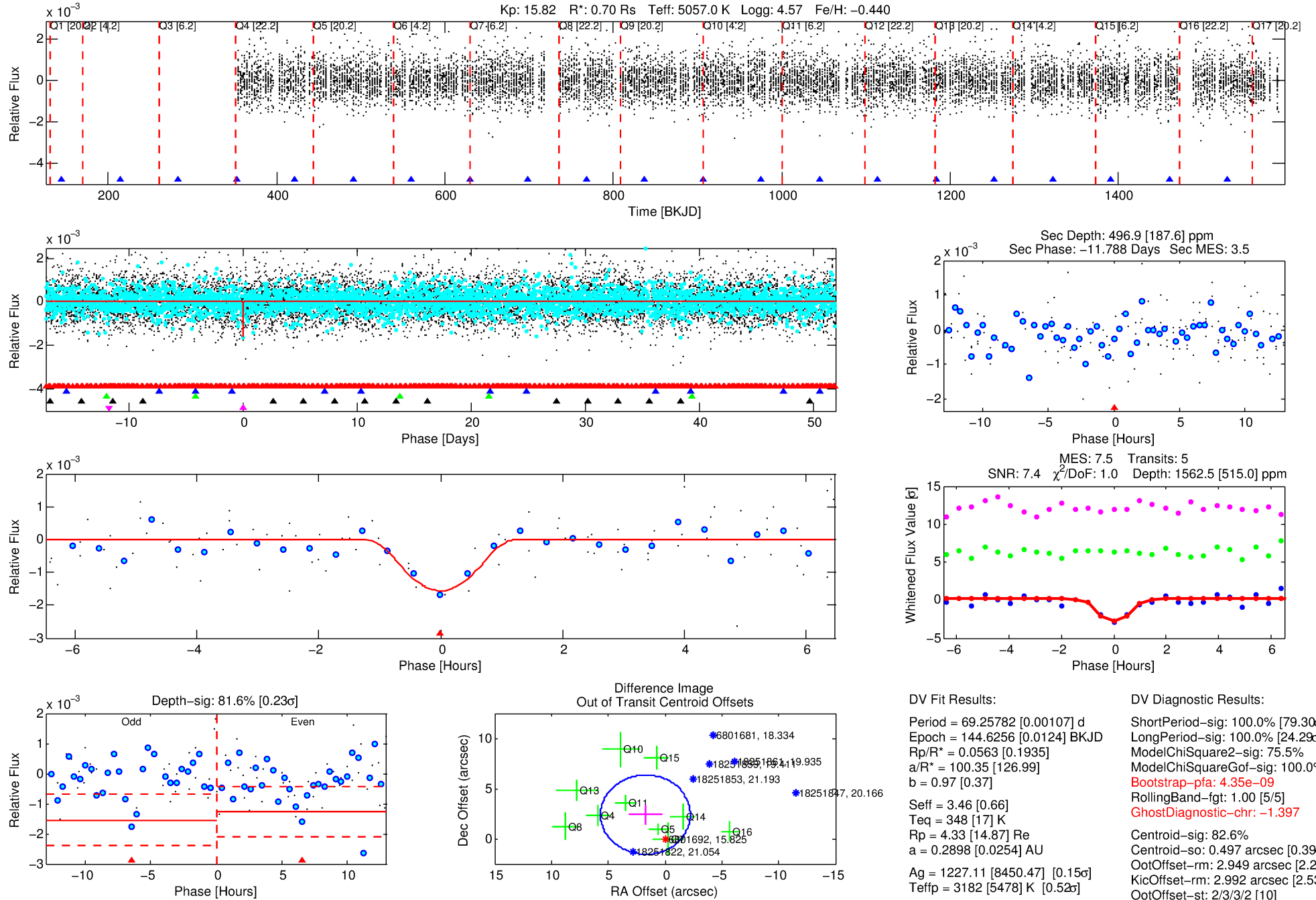
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006801692-05

No Significant Match Found

DV One-Page Summary

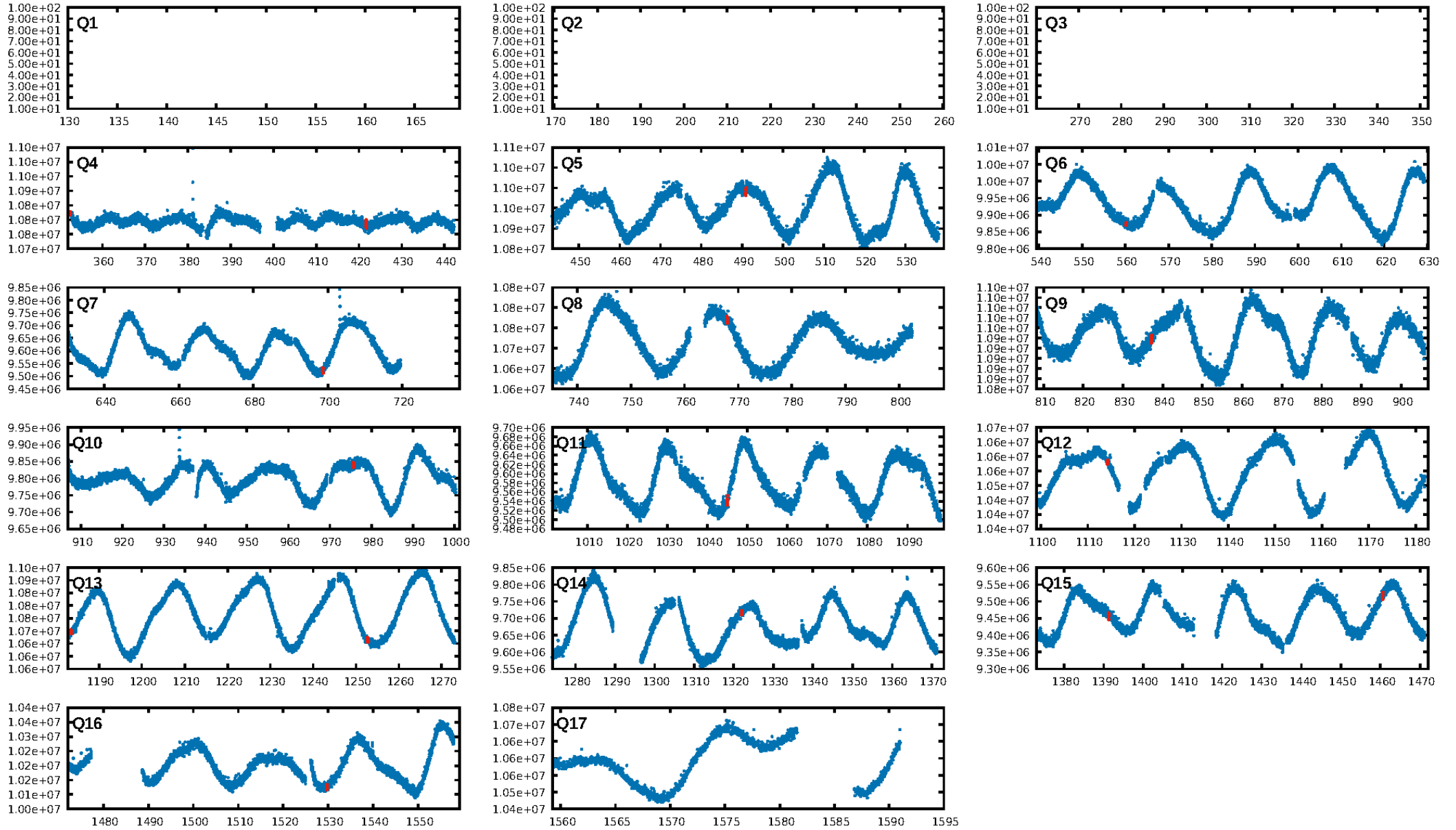
KIC: 6801692 Candidate: 5 of 5 Period: 69.258 d



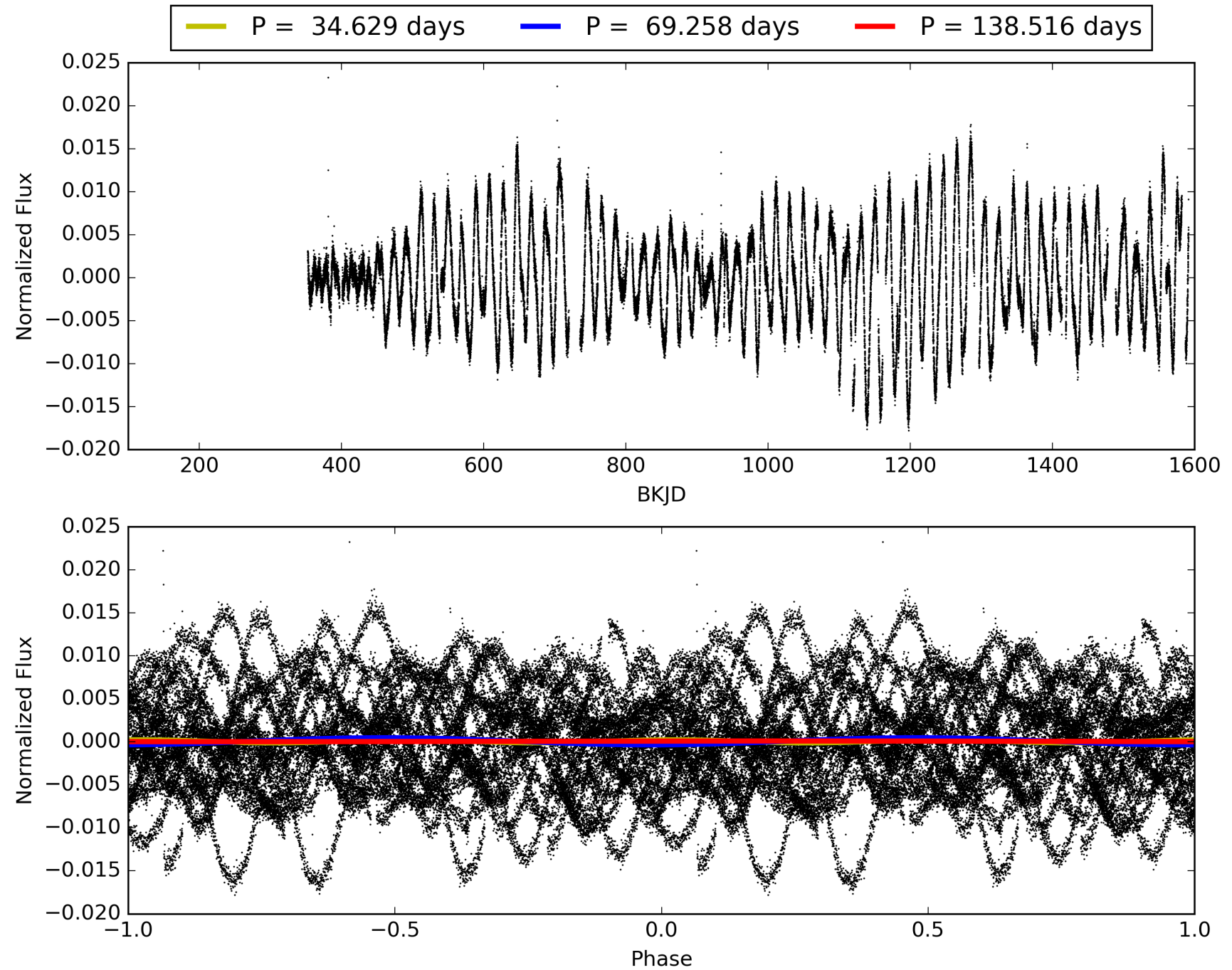
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006801692-05, PDC Light Curves

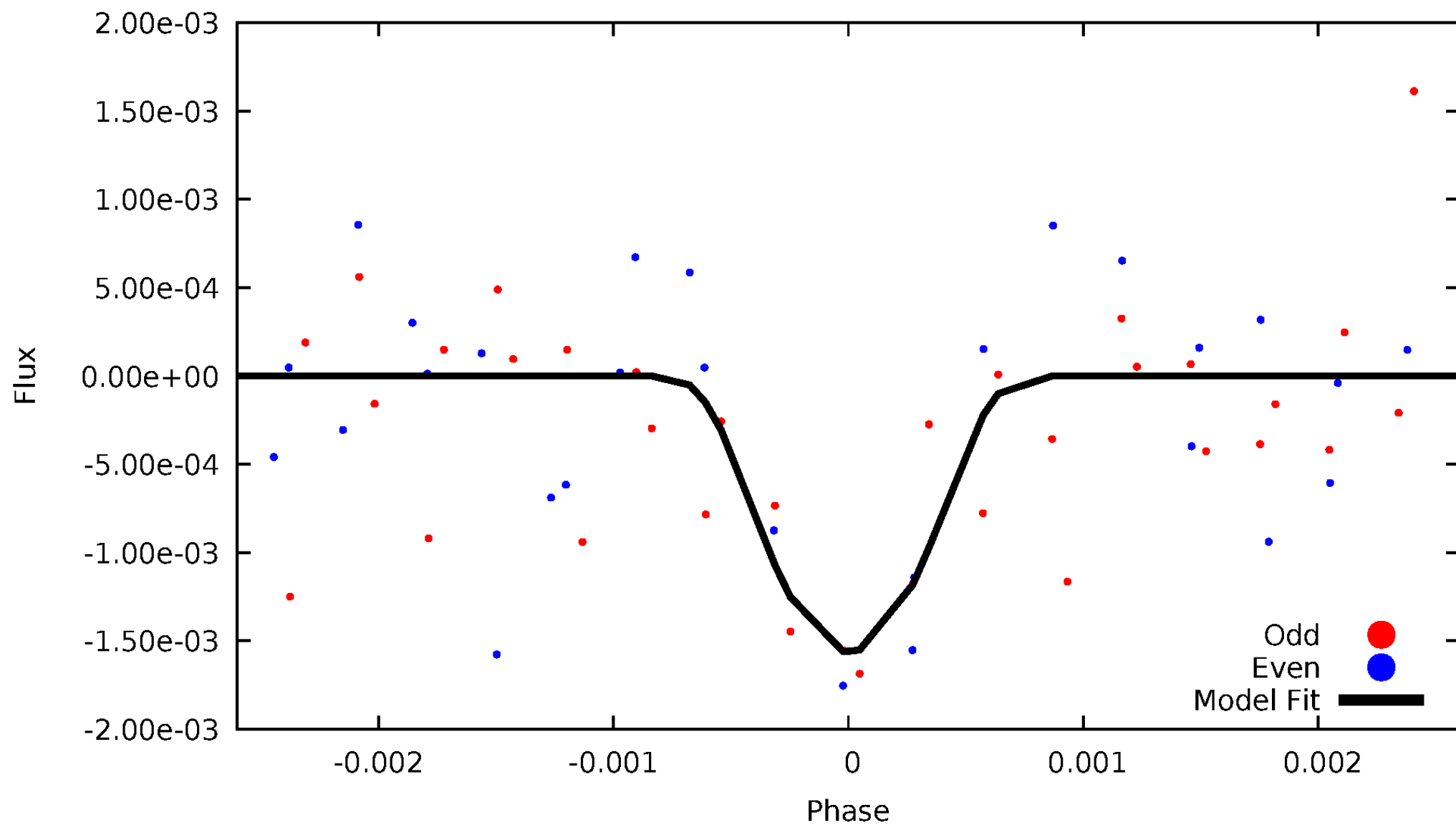


TCE 006801692-05



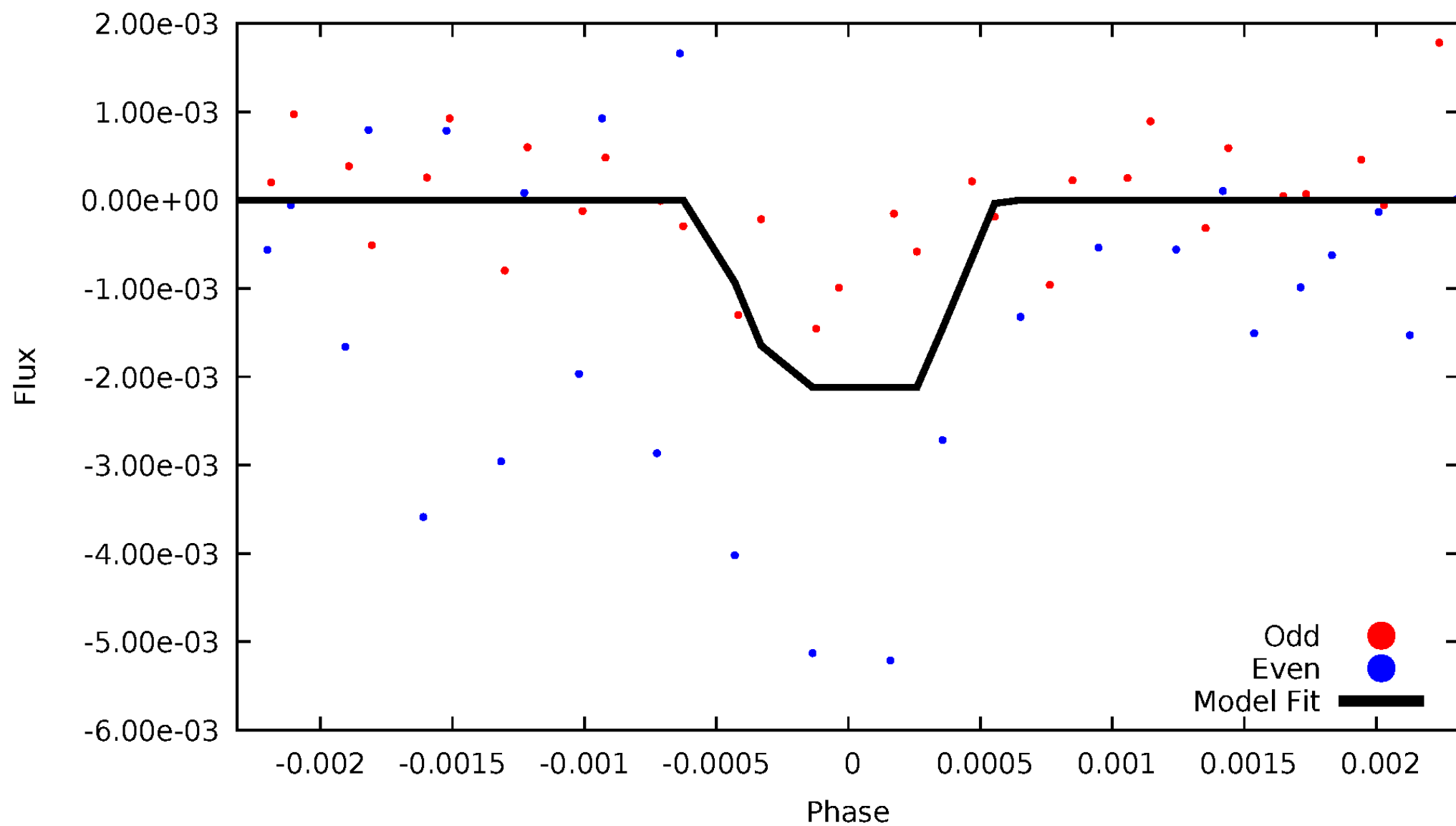
DV Odd/Even

TCE 006801692-05



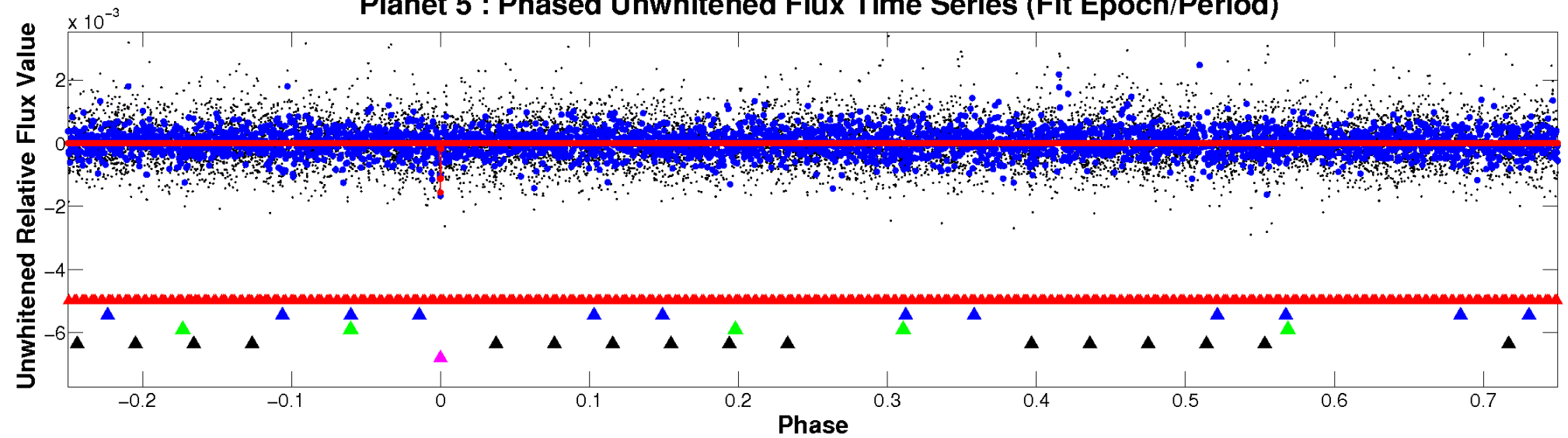
ALT Odd/Even

TCE 006801692-05

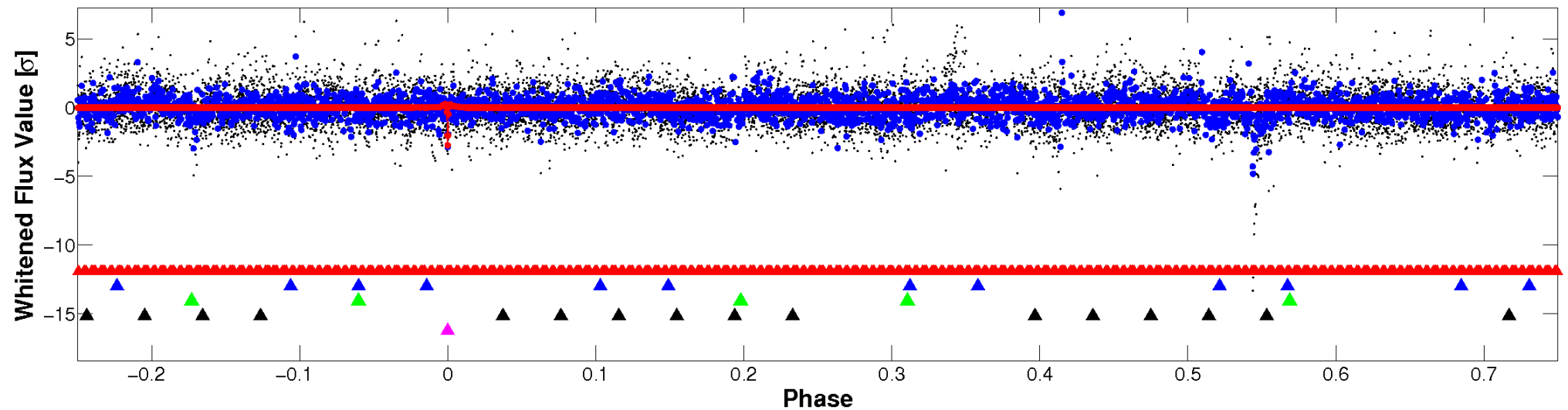


Non-Whitened Vs. Whitened Light Curve

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

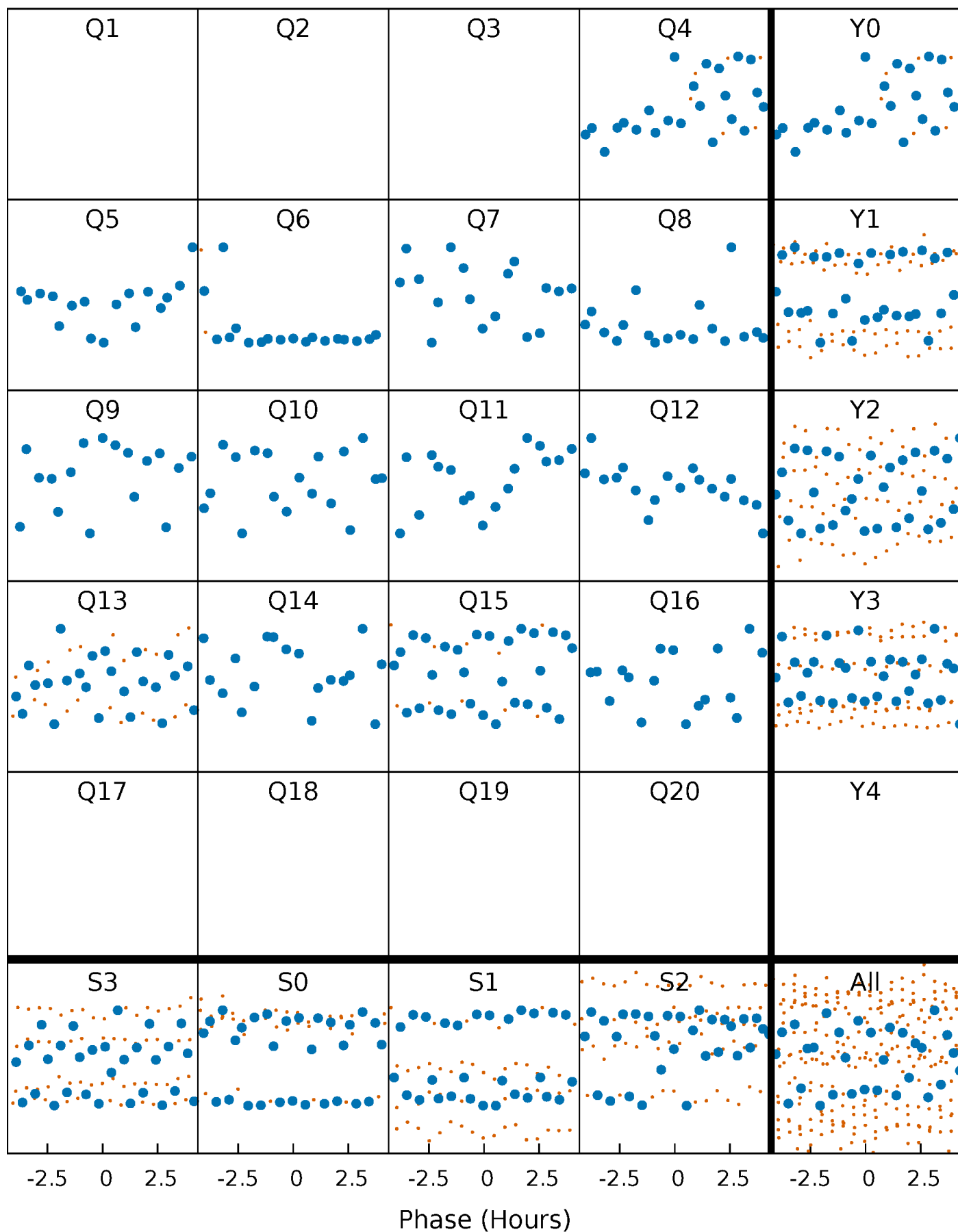


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



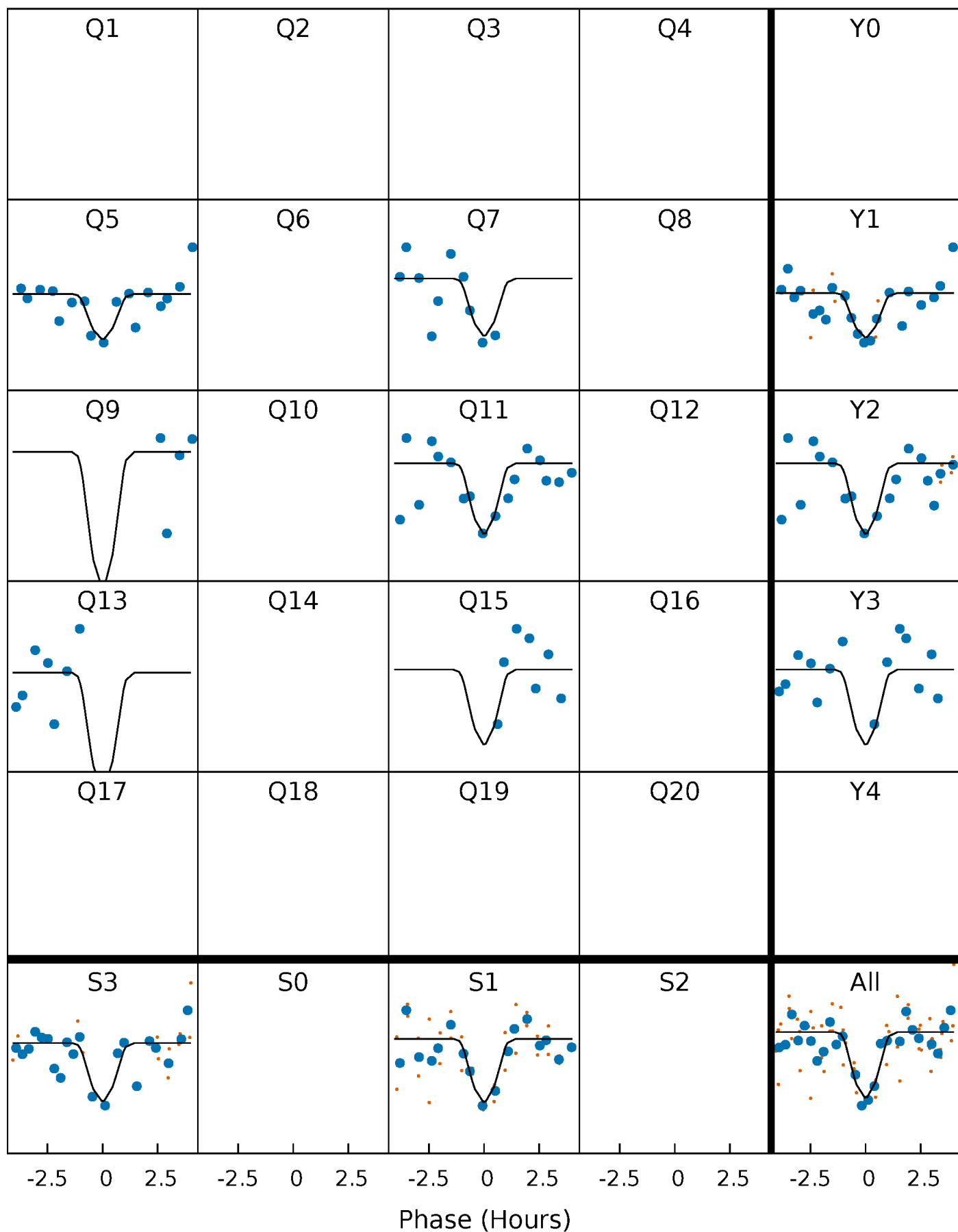
PDC Quarter-Phased Transit Curves

TCE 006801692-05 $P = 69.257818$ Days $T_0 = 144.625597$ (BKJD)



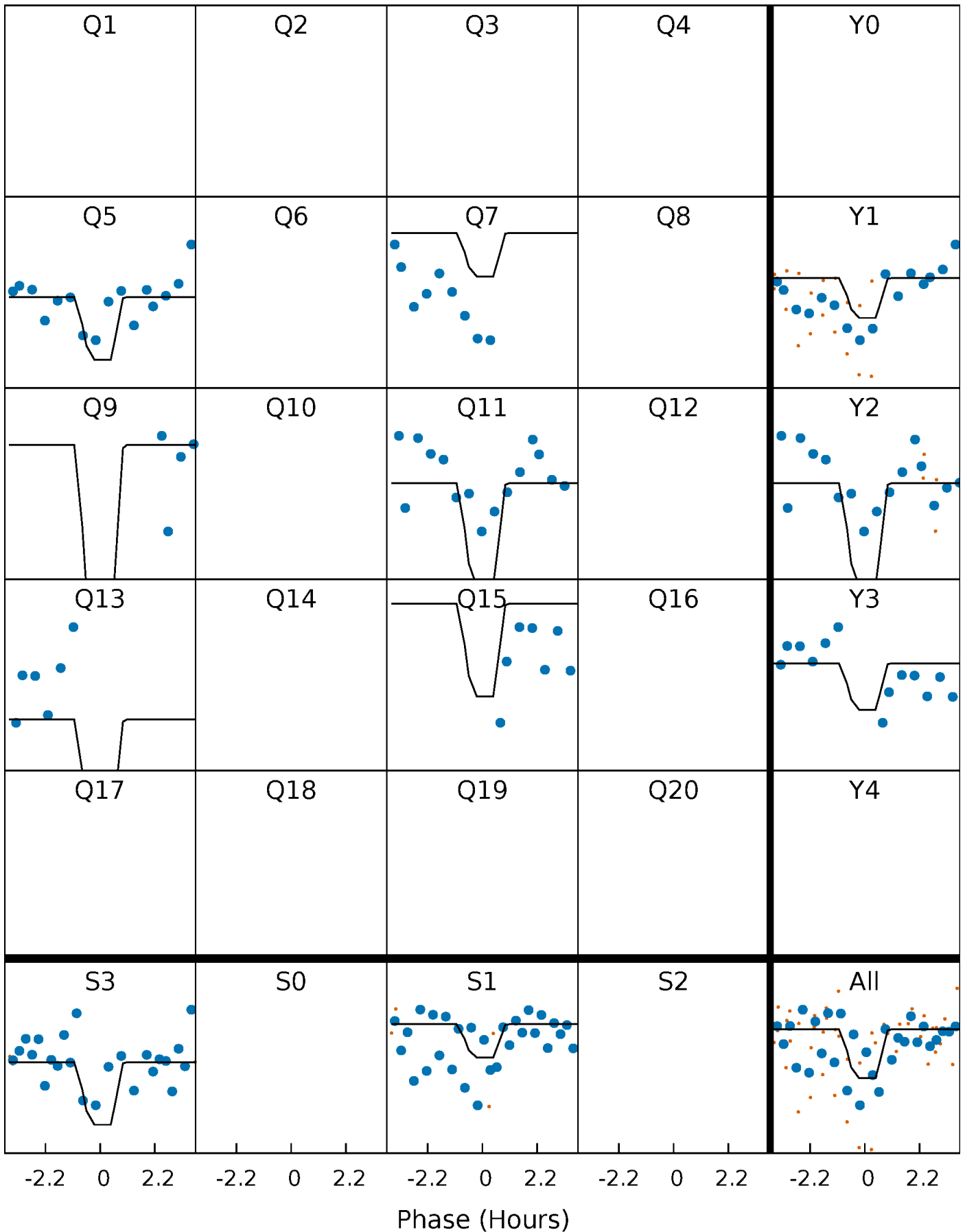
DV Quarter-Phased Transit Curves

TCE 006801692-05 $P = 69.257818$ Days $T_0 = 144.625597$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

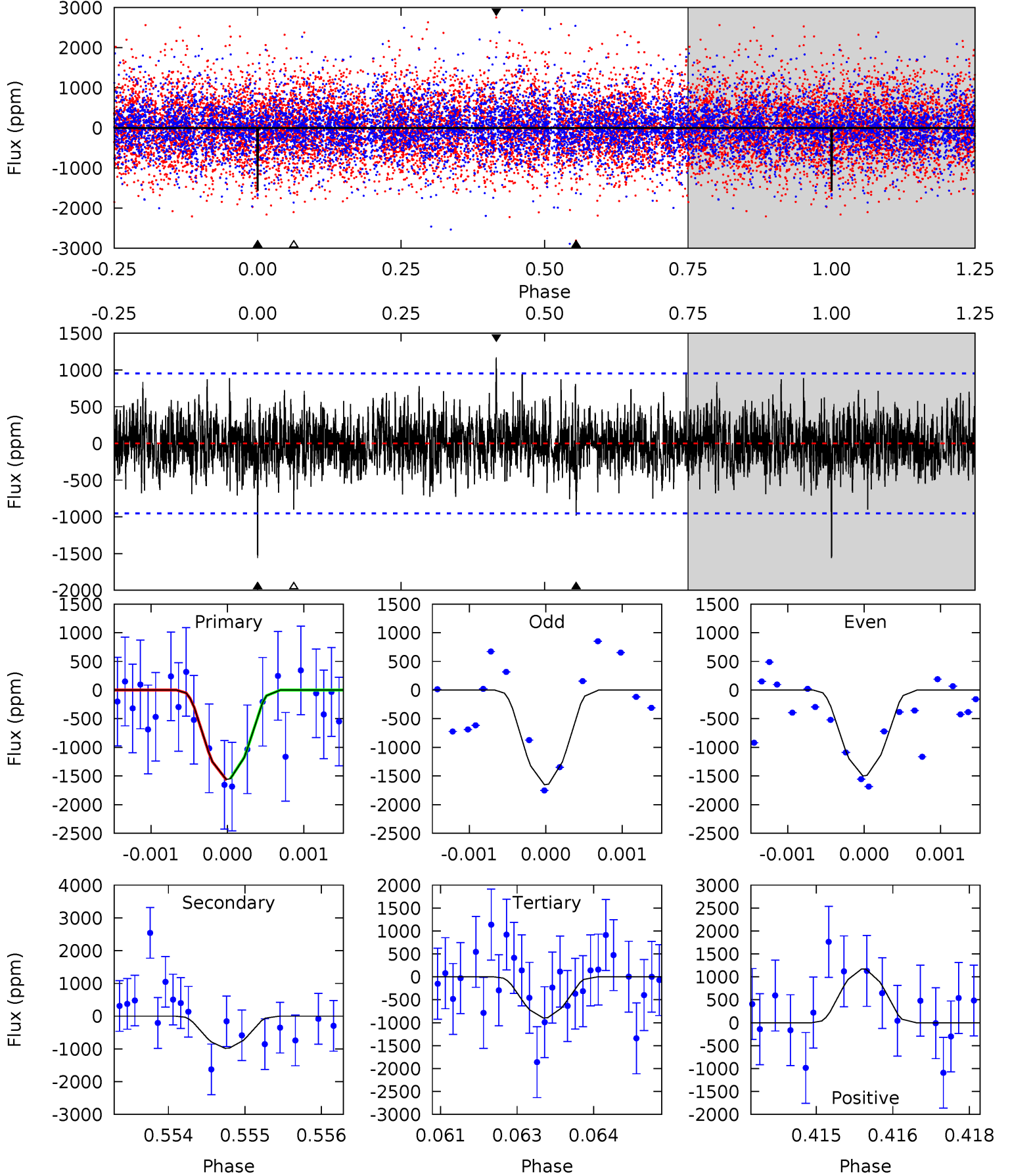
TCE 006801692-05 P= 69.256506 Days $T_0=144.643929$ (BKJD)



DV Model-Shift Uniqueness Test

006801692-05, P = 69.257818 Days, E = 144.625597 Days

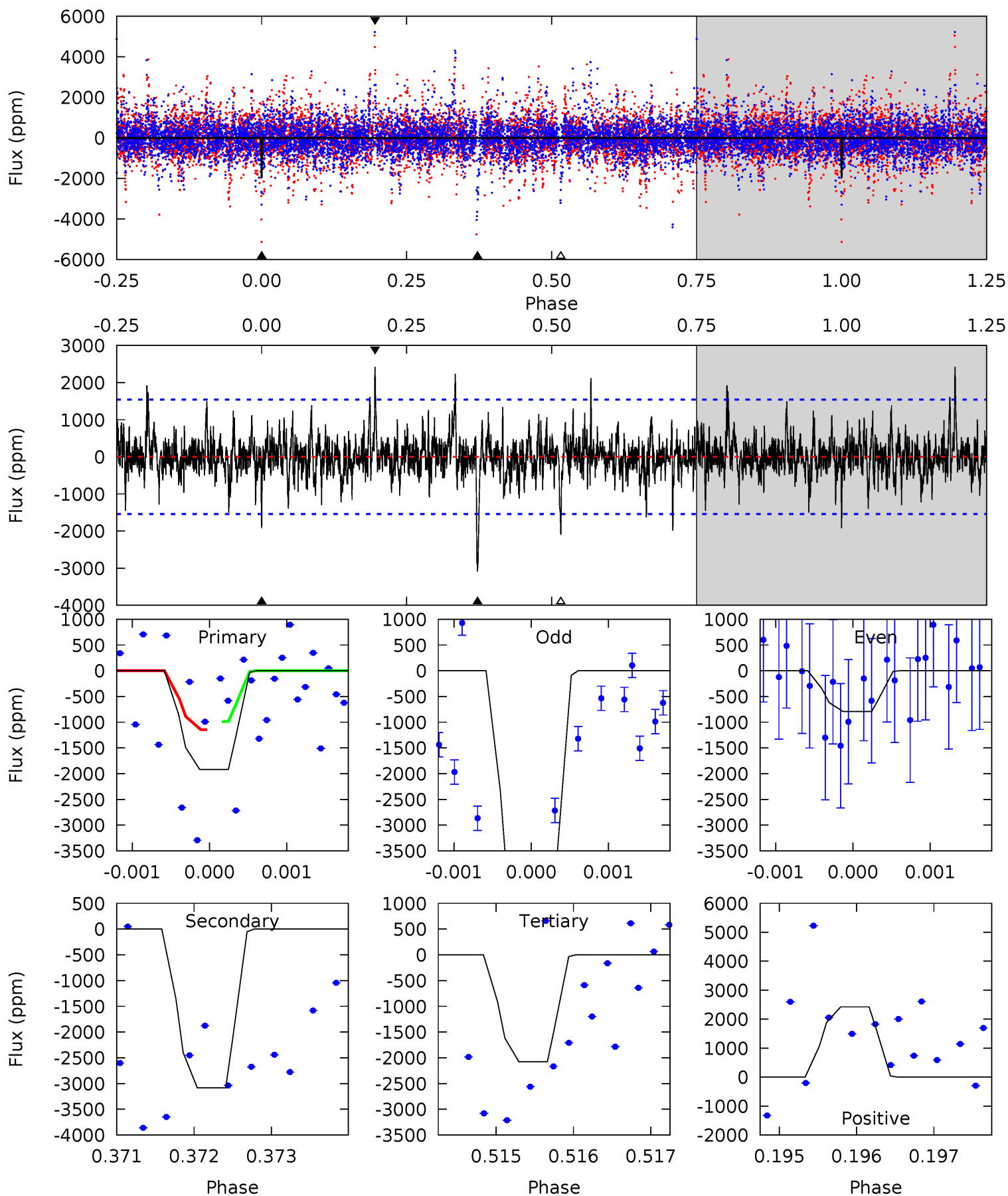
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.85	5.58	5.10	6.66	5.41	3.23	1.42	3.75	2.19	0.48	-1.08	0.42	1.03	0.43	0.05



Alt Model-Shift Uniqueness Test

006801692-05, P = 69.256506 Days, E = 144.643929 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.78	10.9	7.34	8.56	5.44	3.27	1.52	-0.56	-1.78	3.55	2.33	6.87	2.55	0.44	0.26



Stellar Parameters For KIC 006801692

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5057^{+176}_{-176}	$4.573^{+0.072}_{-0.048}$	$-0.440^{+0.300}_{-0.300}$	$0.704^{+0.072}_{-0.072}$	$0.676^{+0.093}_{-0.043}$	$2.732^{+0.917}_{-0.479}$
	+3%/-3%	+2%/-1%	+68%/-68%	+10%/-10%	+14%/-6%	+34%/-18%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006801692-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-983±176	$11.61^{+10.42}_{-8.15}$	484^{+20}_{-22}	2966^{+1379}_{-487}	345^{+3104}_{-253}
Alt.	-3083±283	$10.64^{+12.00}_{-7.01}$	486^{+20}_{-22}	3617^{+1856}_{-749}	1260^{+9414}_{-974}

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 $A_{obs} \gg 1.0$

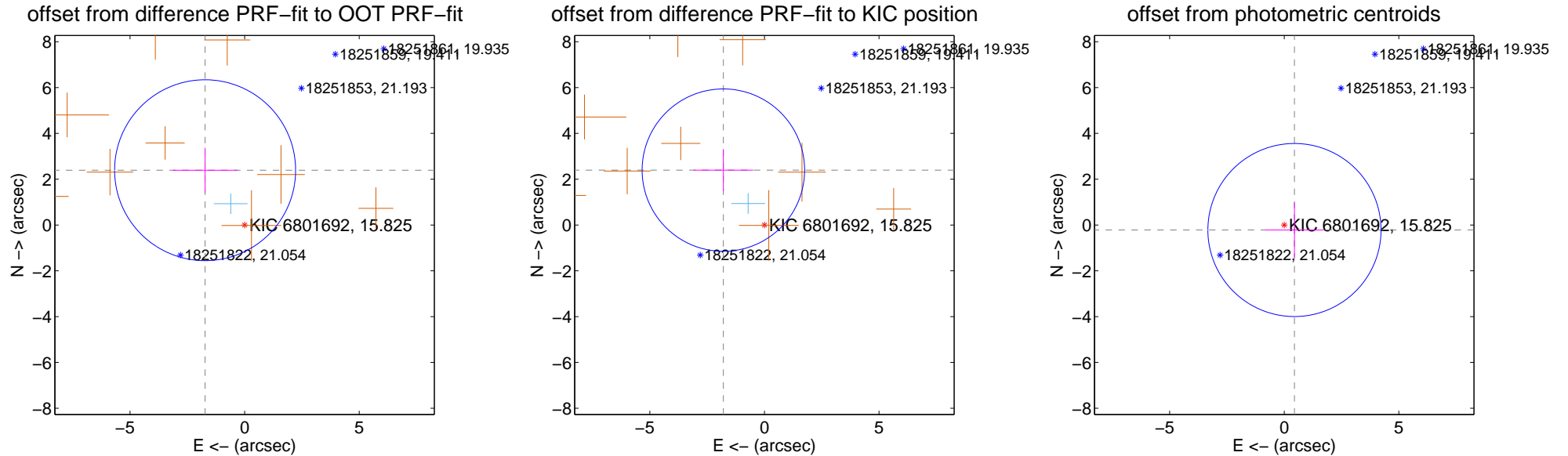
DV Centroid Data

Supplemental centroid analysis for 006801692-05. Kepler magnitude: 15.82. Transit SNR 7.39

There are 1 quarters with good PRF difference image offsets

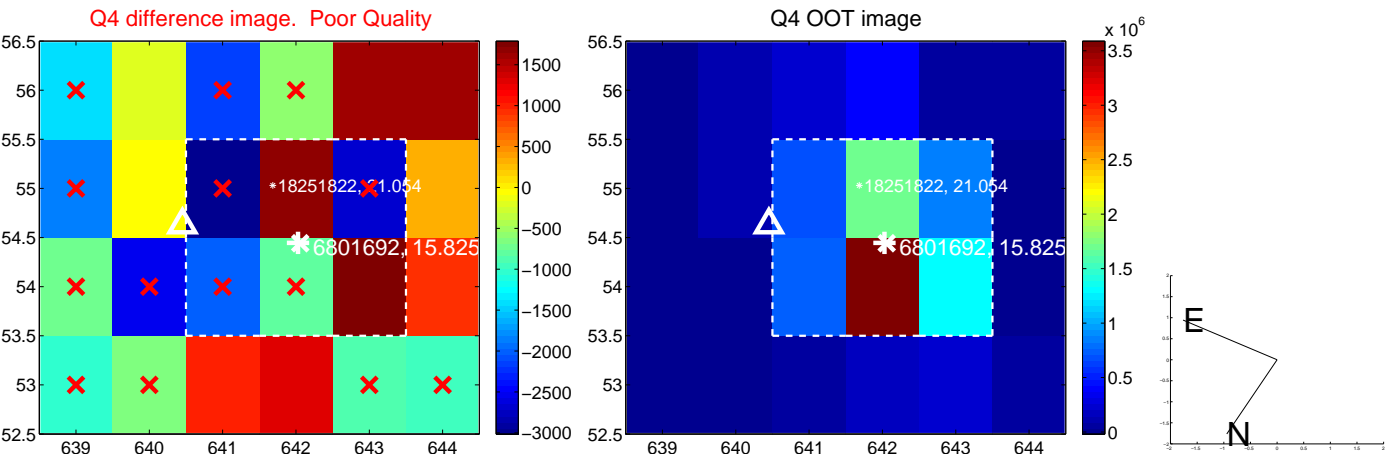
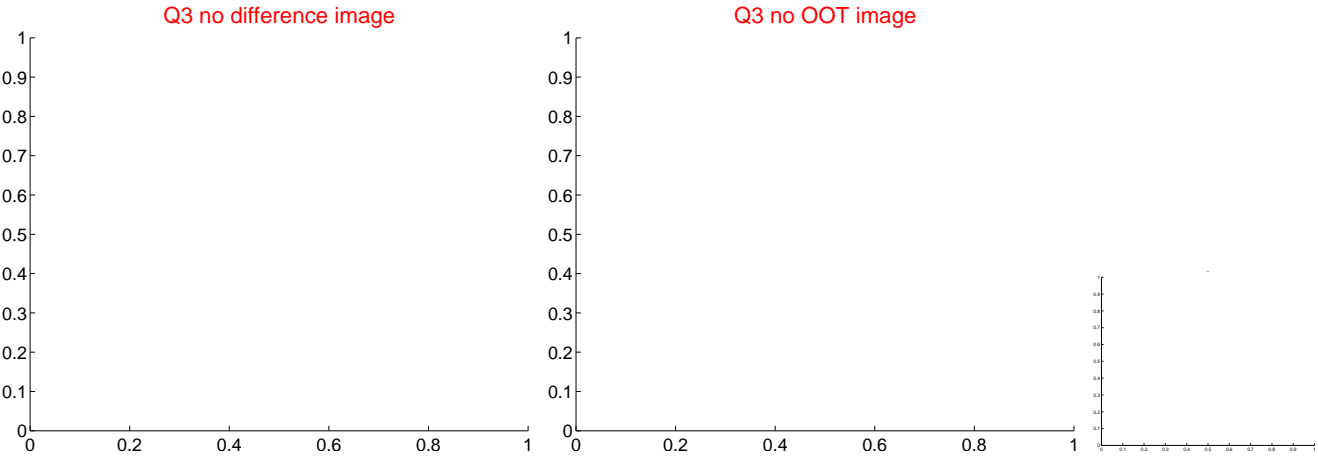
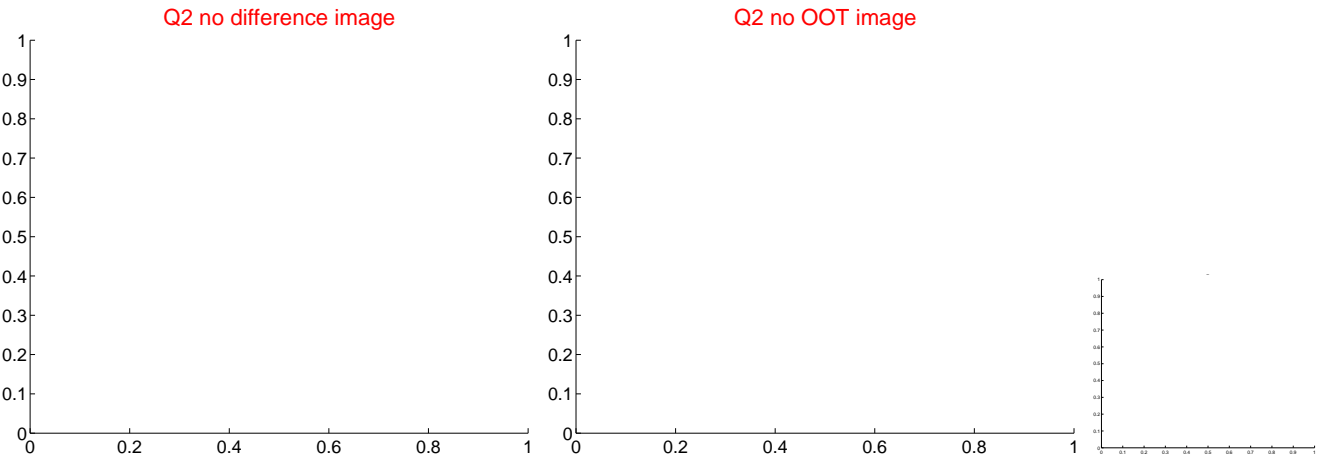
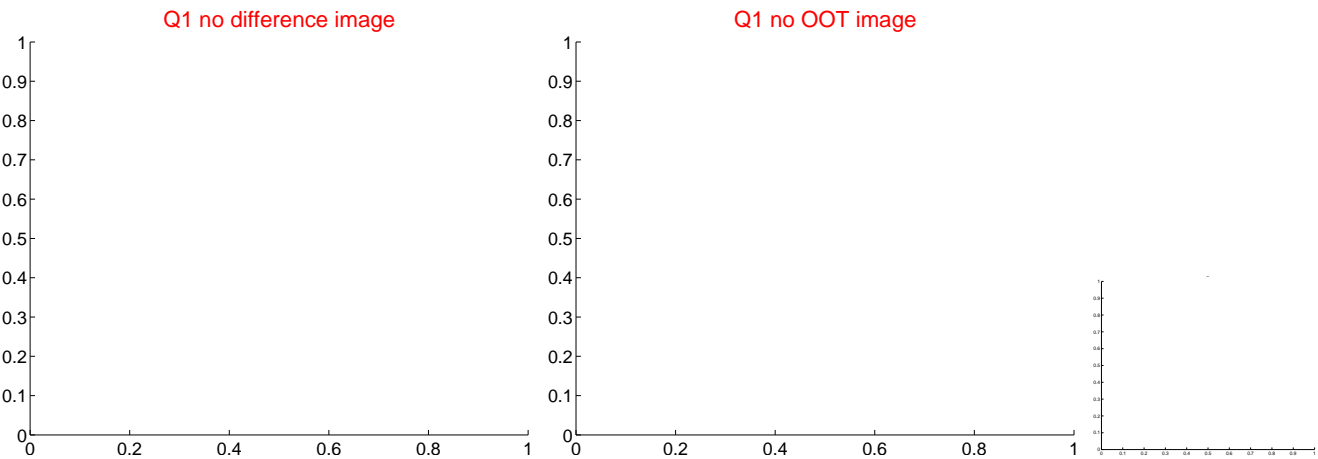
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.949 ± 1.316	2.24	1.724 ± 1.411	2.392 ± 0.982
PRF-fit source offset from KIC position	2.992 ± 1.182	2.53	1.792 ± 1.301	2.396 ± 0.916
photometric centroid source offset	0.50 ± 1.26	0.39	-0.45 ± 1.27	-0.22 ± 1.20

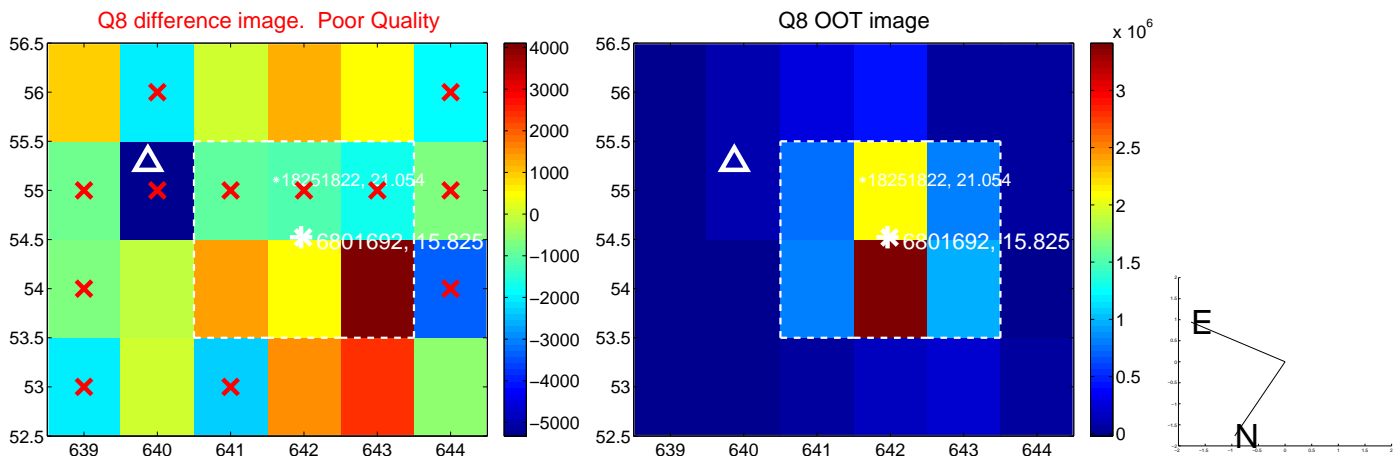
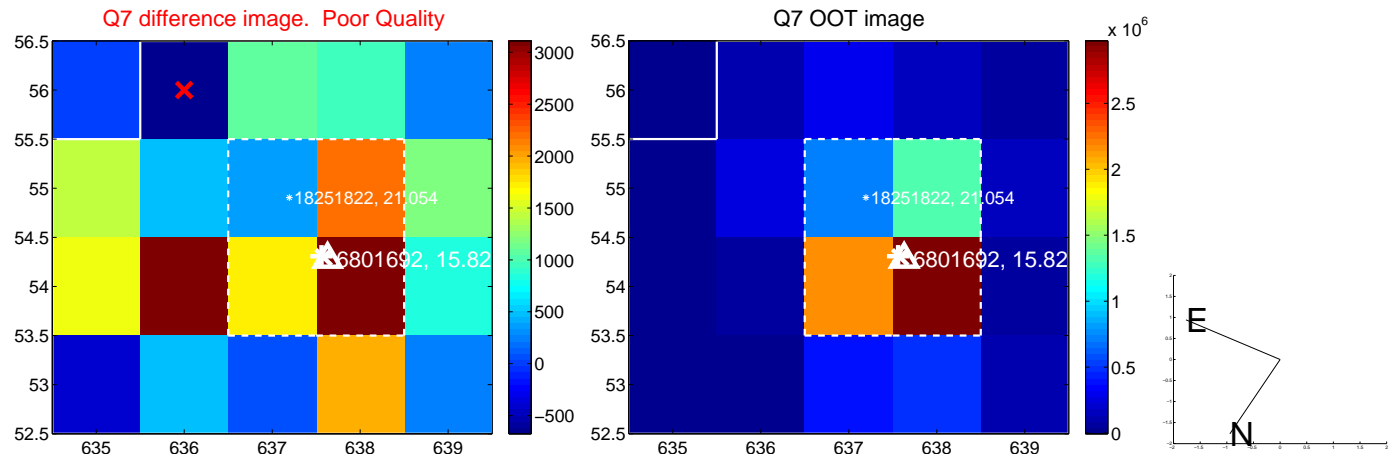
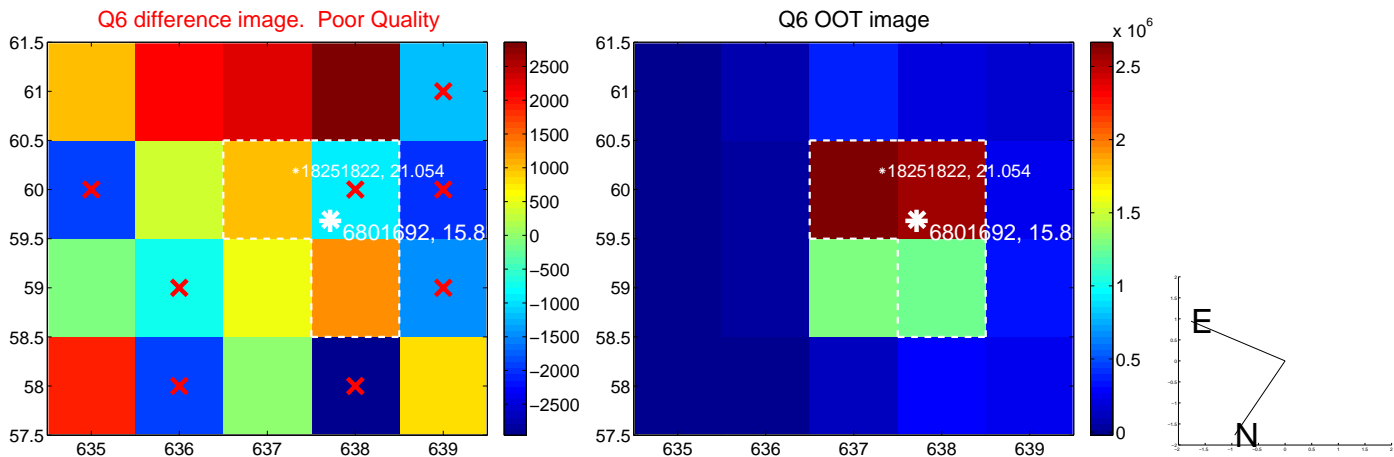
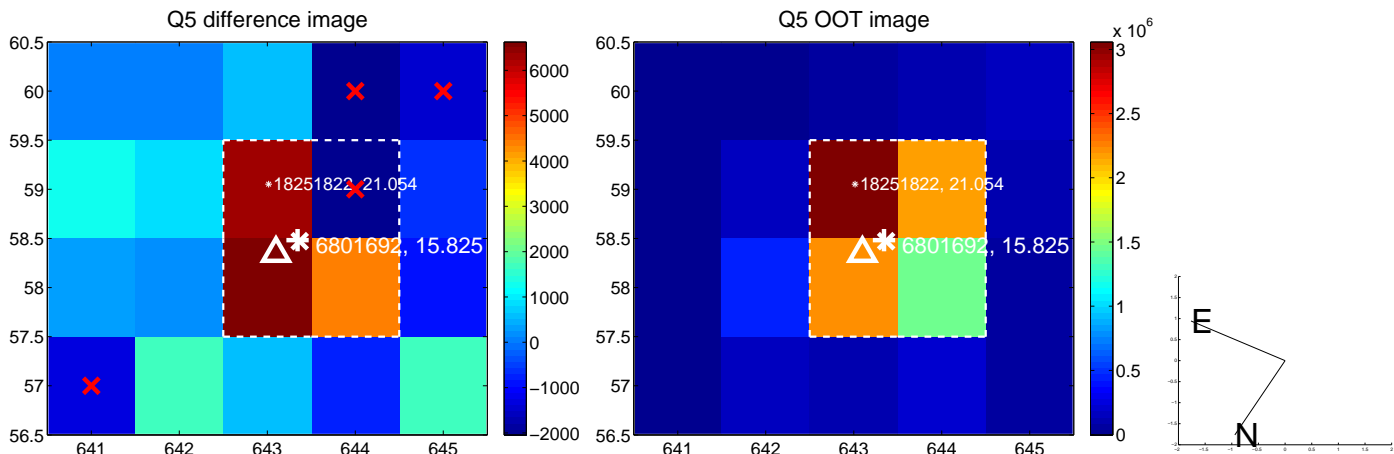


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

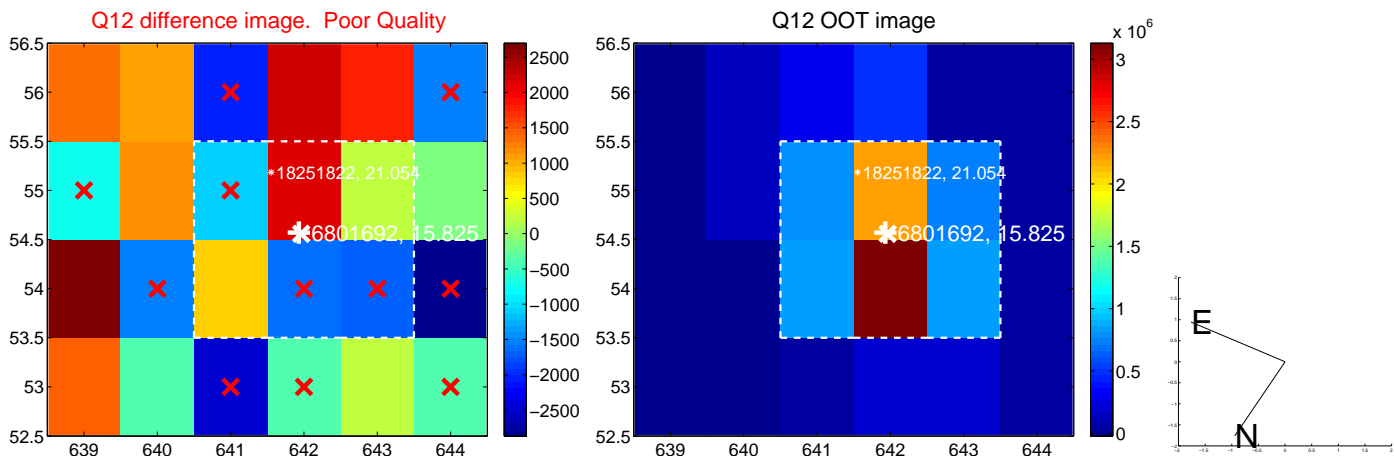
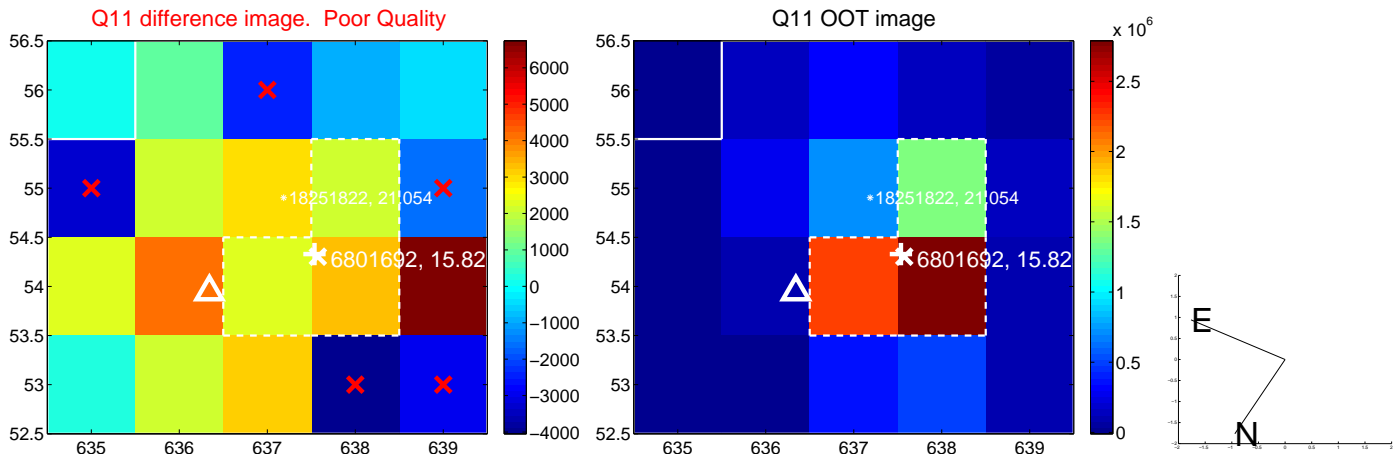
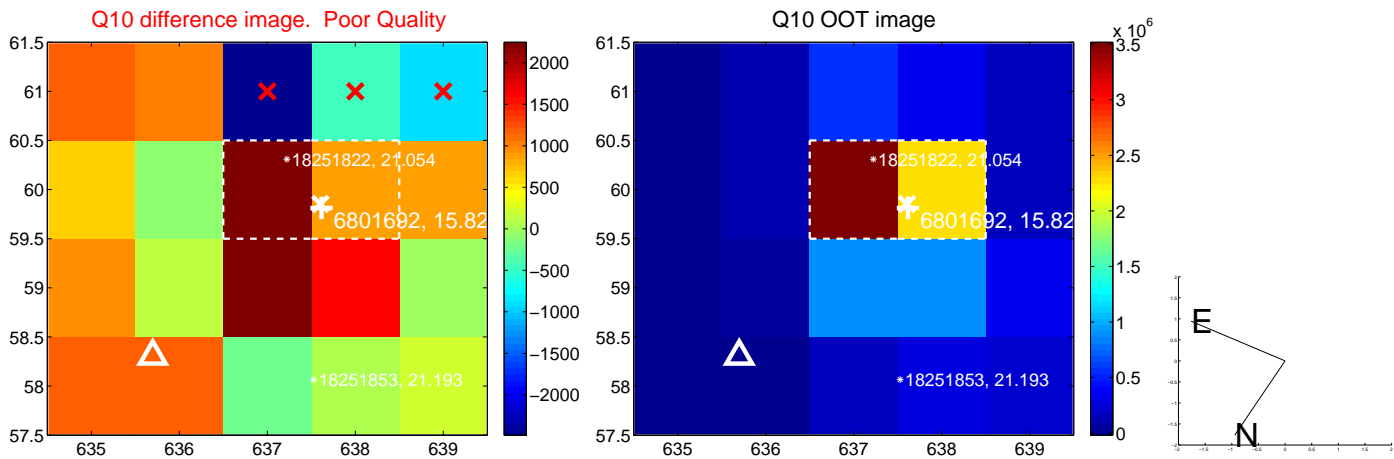
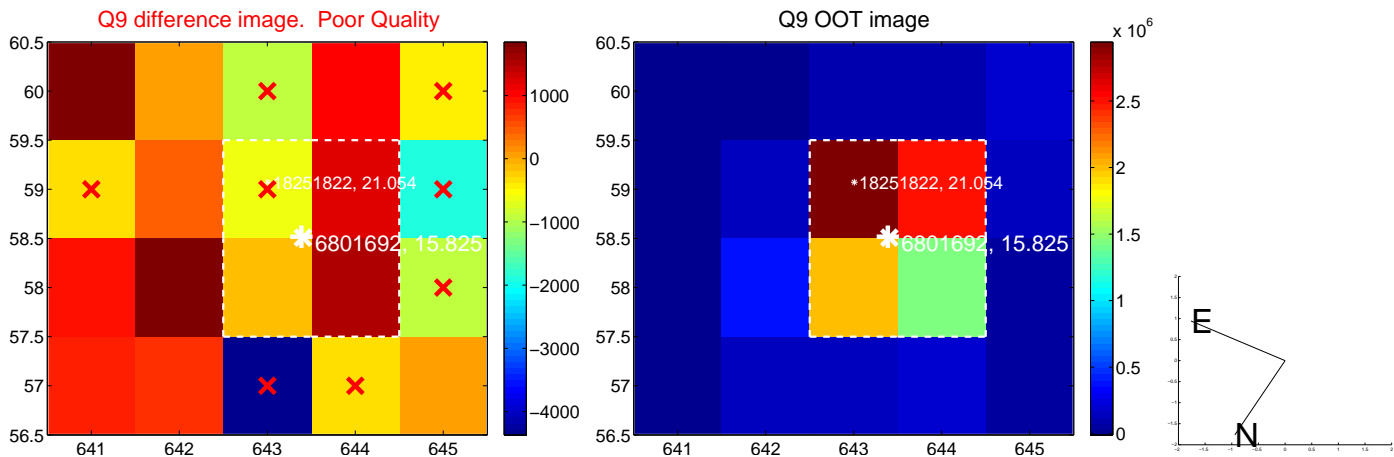
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



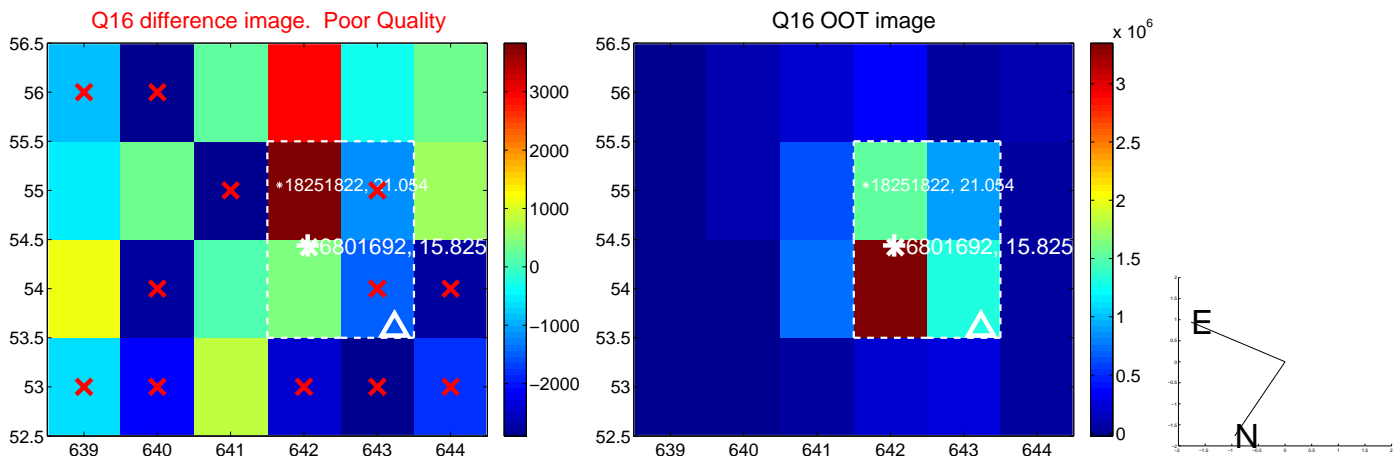
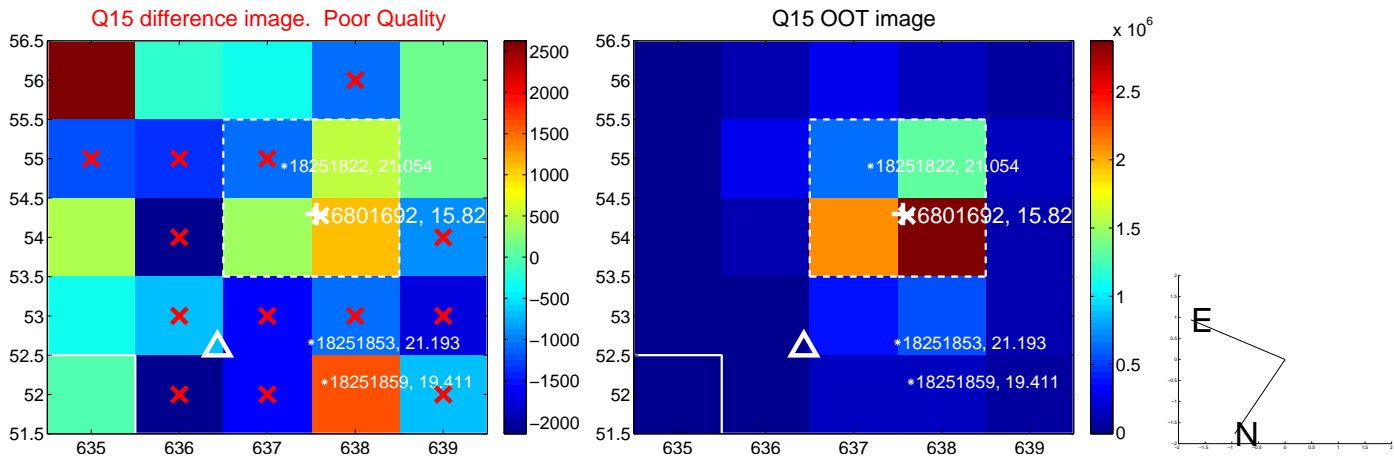
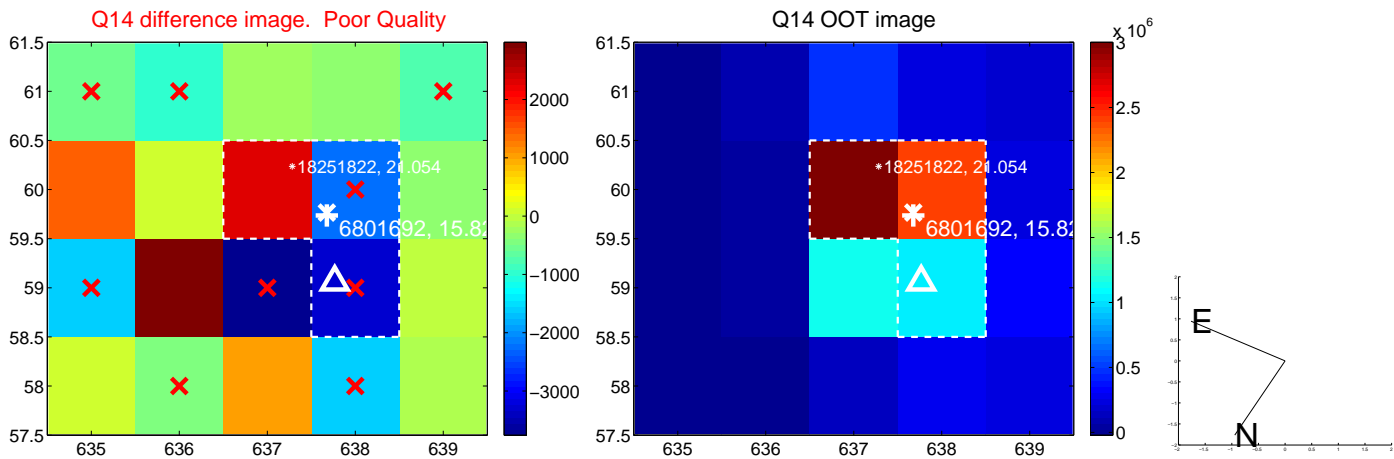
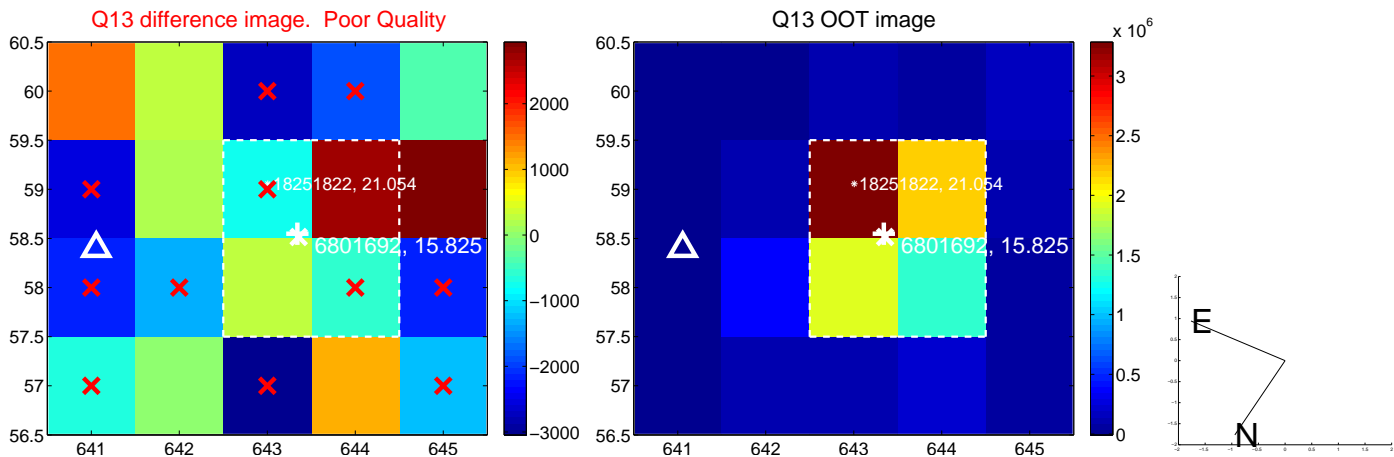
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



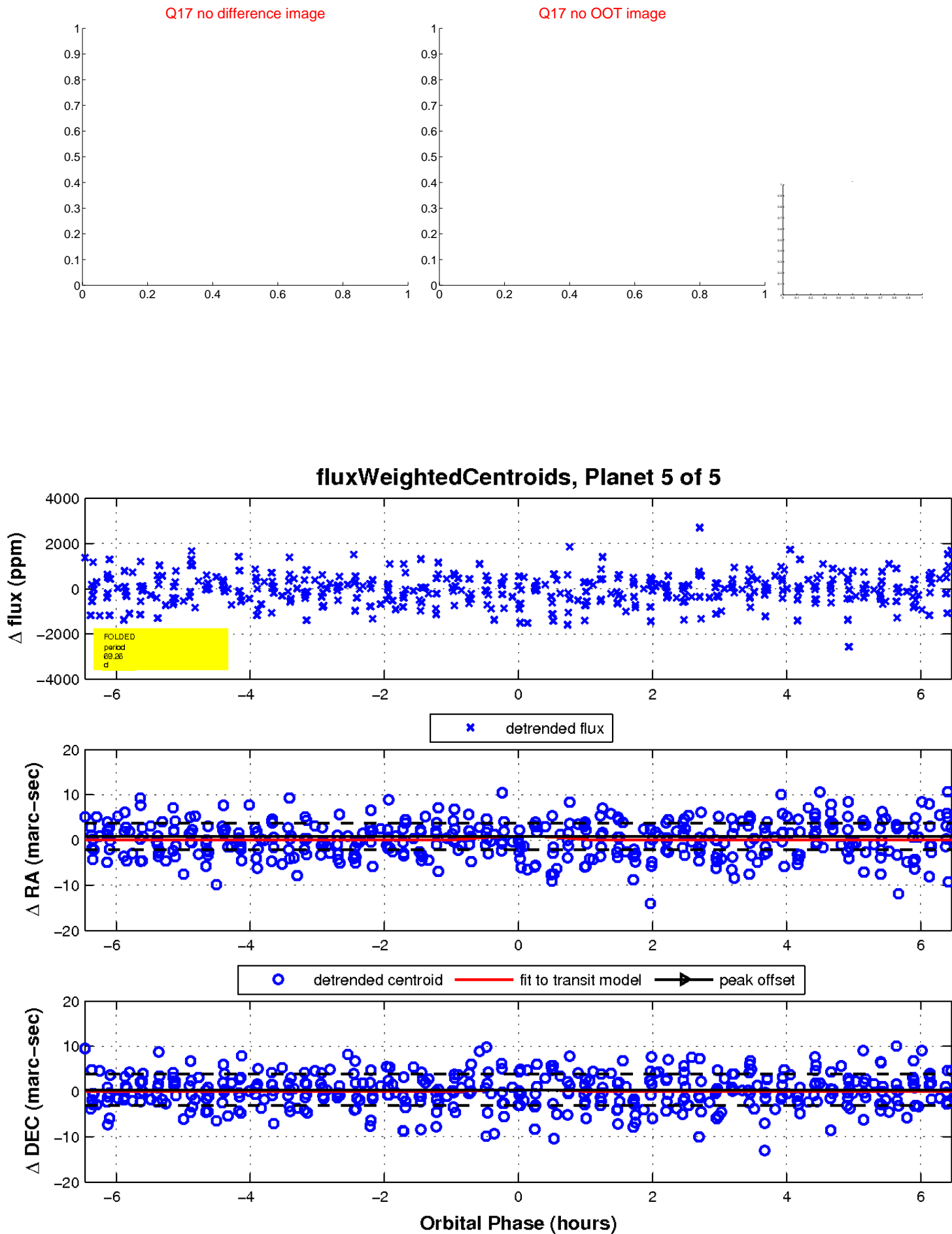
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; +: OOT centroid; \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

