

KIC 006635026

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})
006635026-01	OBS	No	0.723688	131.859976	109.1	4.950	17.4	11.8	2.31	7485	2.47	41623.07
006635026-02	OBS	No	140.939510	227.746688	2913.0	2.723	15.6	14.5	2.31	7485	13.93	36.87
006635026-03	OBS	No	38.428035	143.056910	1806.0	4.305	12.5	13.9	2.31	7485	11.32	208.55
006635026-04	OBS	No	60.219450	138.742859	2649.4	1.049	13.6	11.5	2.31	7485	12.25	114.57
006635026-05	OBS	No	26.980444	145.913094	1970.5	1.300	11.3	11.5	2.31	7485	10.74	334.20
006635026-06	OBS	No	36.206055	155.848699	1444.1	3.245	9.8	9.4	2.31	7485	13.34	225.78
006635026-07	OBS	No	135.464597	151.815020	1424.1	8.019	9.2	9.7	2.31	7485	9.36	38.87
006635026-08	OBS	No	80.986429	157.236489	1366.0	11.106	9.4	8.6	2.31	7485	8.86	77.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006635026-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_KIC_POS
006635026-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
006635026-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_KIC_POS
006635026-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

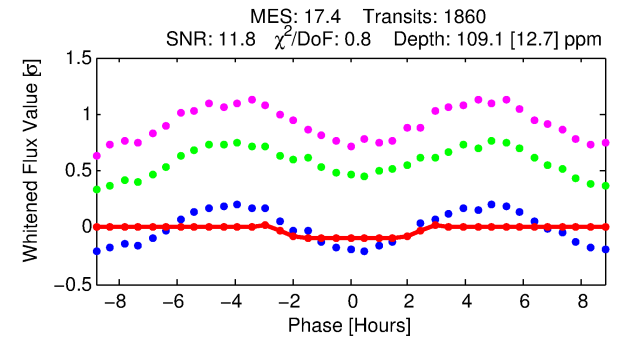
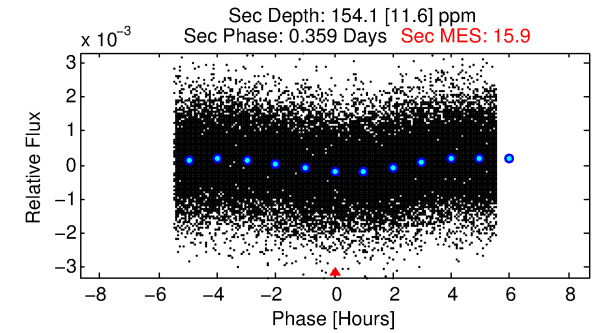
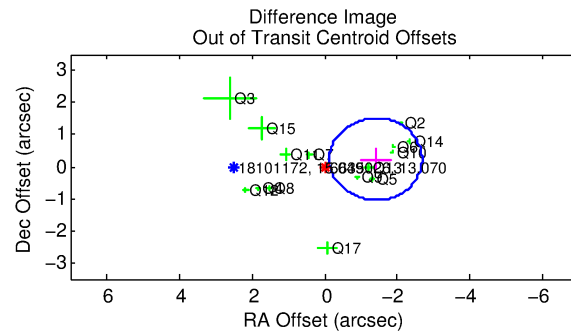
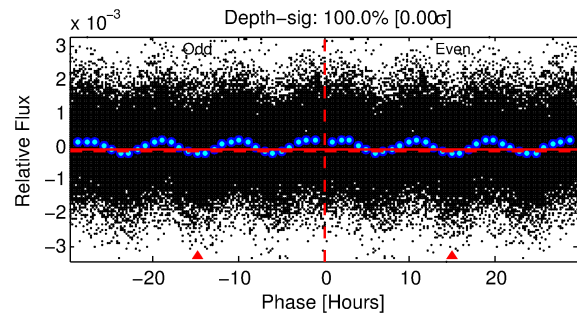
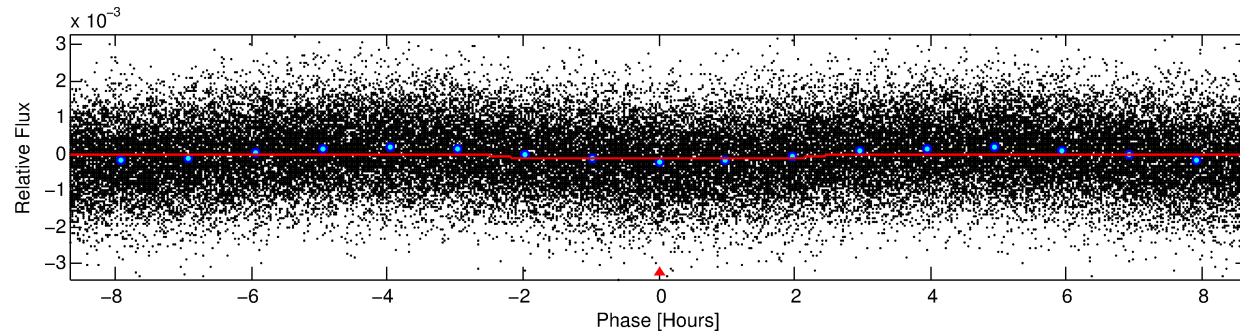
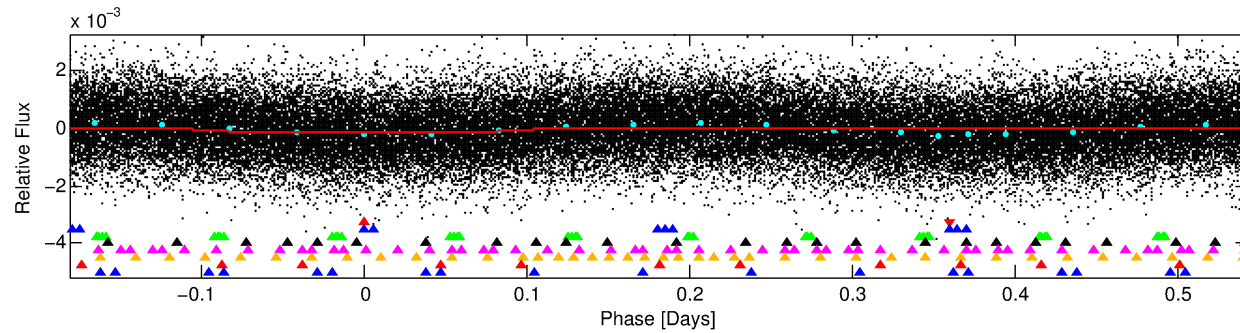
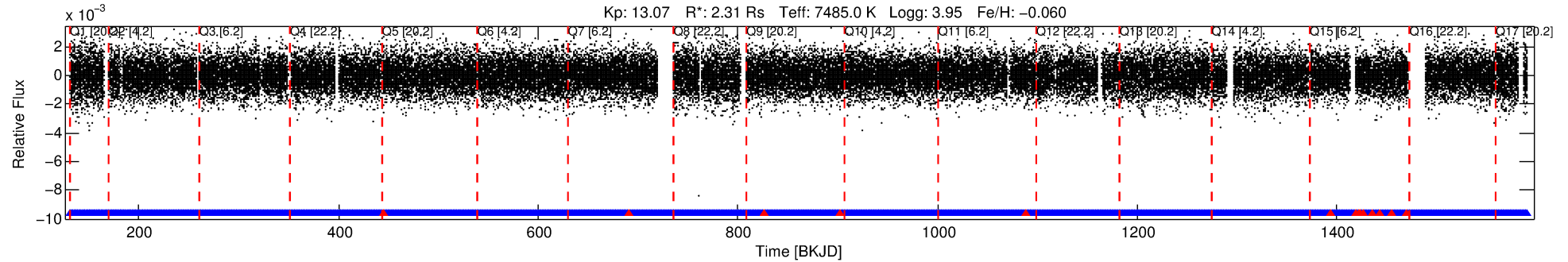
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006635026-01

No Significant Match Found

DV One-Page Summary

KIC: 6635026 Candidate: 1 of 8 Period: 0.724 d



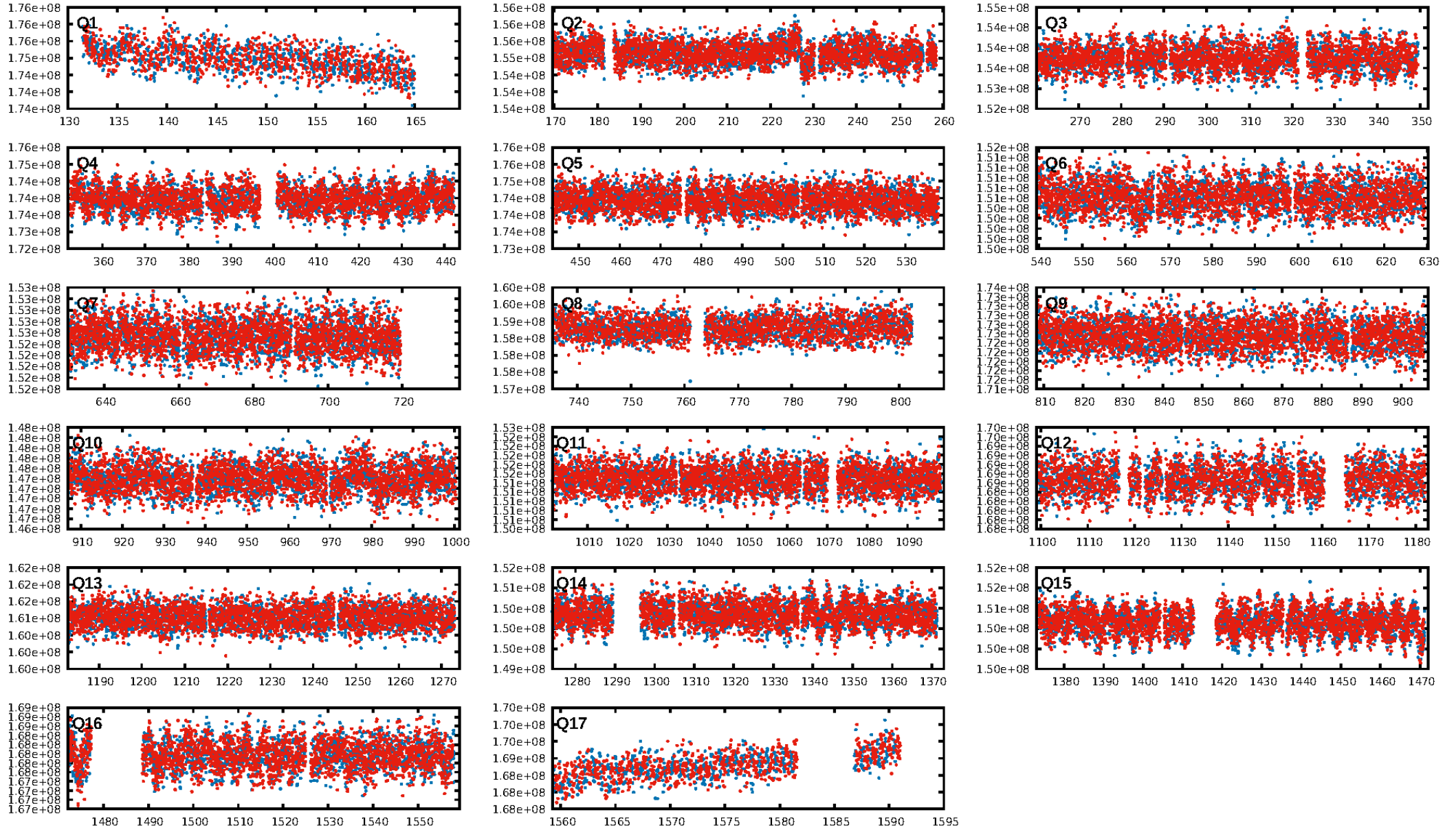
DV Fit Results:

Period = 0.72369 [0.00001] d
Epoch = 131.8600 [0.0036] BKJD
Rp/R* = 0.0098 [0.0089]
a/R* = 1.27 [2.67]
b = 0.30 [16.86]
Seff = 41623.07 [20408.66]
Teq = 3642 [446] K
Rp = 2.47 [2.38] Re
a = 0.0190 [0.0056] AU
Ag = 5.02 [9.37] [0.43 σ]
Teffp = 8428 [3837] K [1.24 σ]

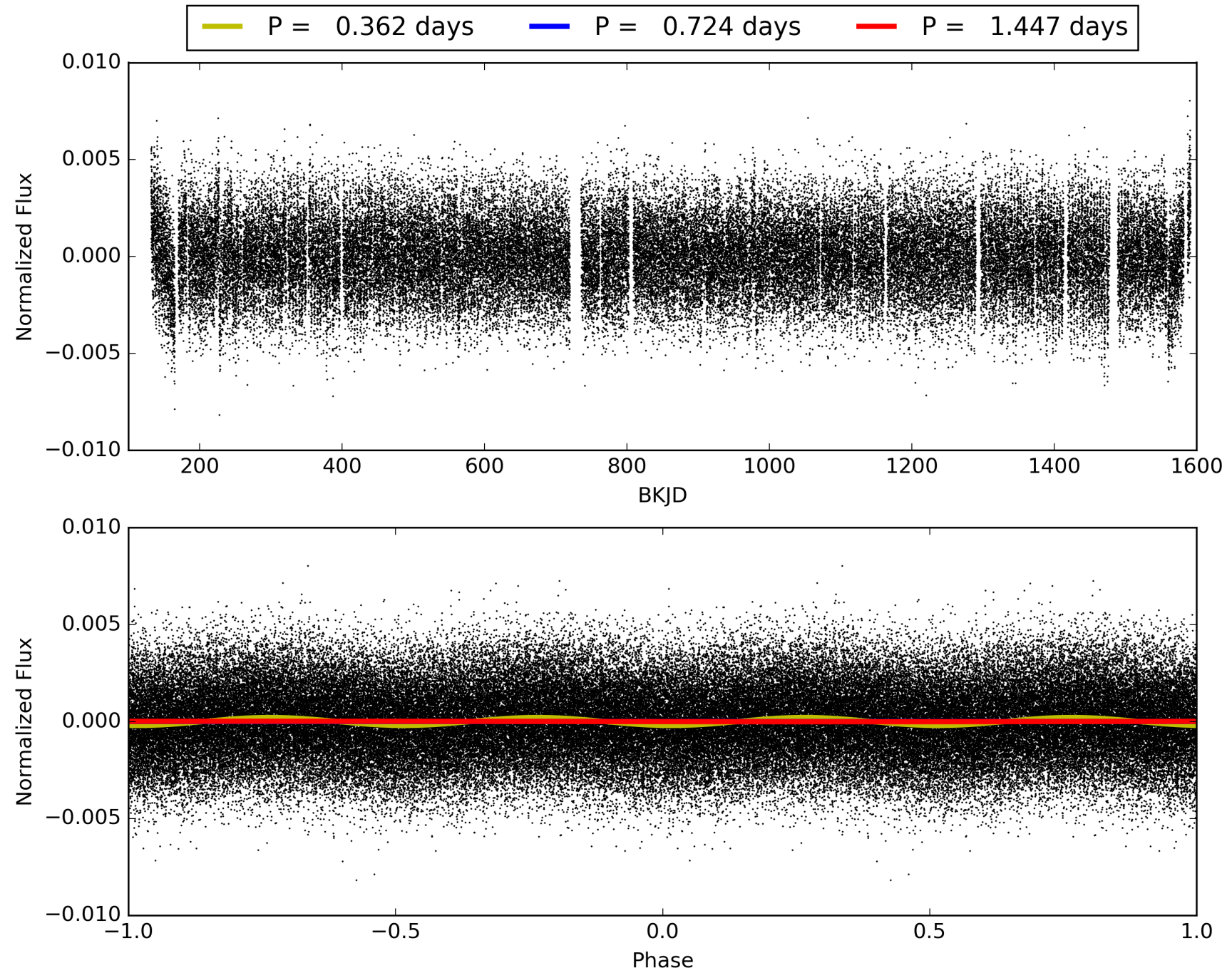
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [123.11 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.19e-23
RollingBand-fgt: 0.99 [1762/1777]
GhostDiagnostic-chr: 1.371
Centroid-sig: 2.6 σ
Centroid-so: 0.202 arcsec [1.36 σ]
OotOffset-rm: 1.426 arcsec [3.36 σ]
KicOffset-rm: 0.873 arcsec [2.23 σ]
OotOffset-st: 4/4/3/4 [15]
KicOffset-st: 4/4/3/4 [15]
DiffImageQuality-fgm: 0.93 [14/15]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 006635026-01, PDC Light Curves

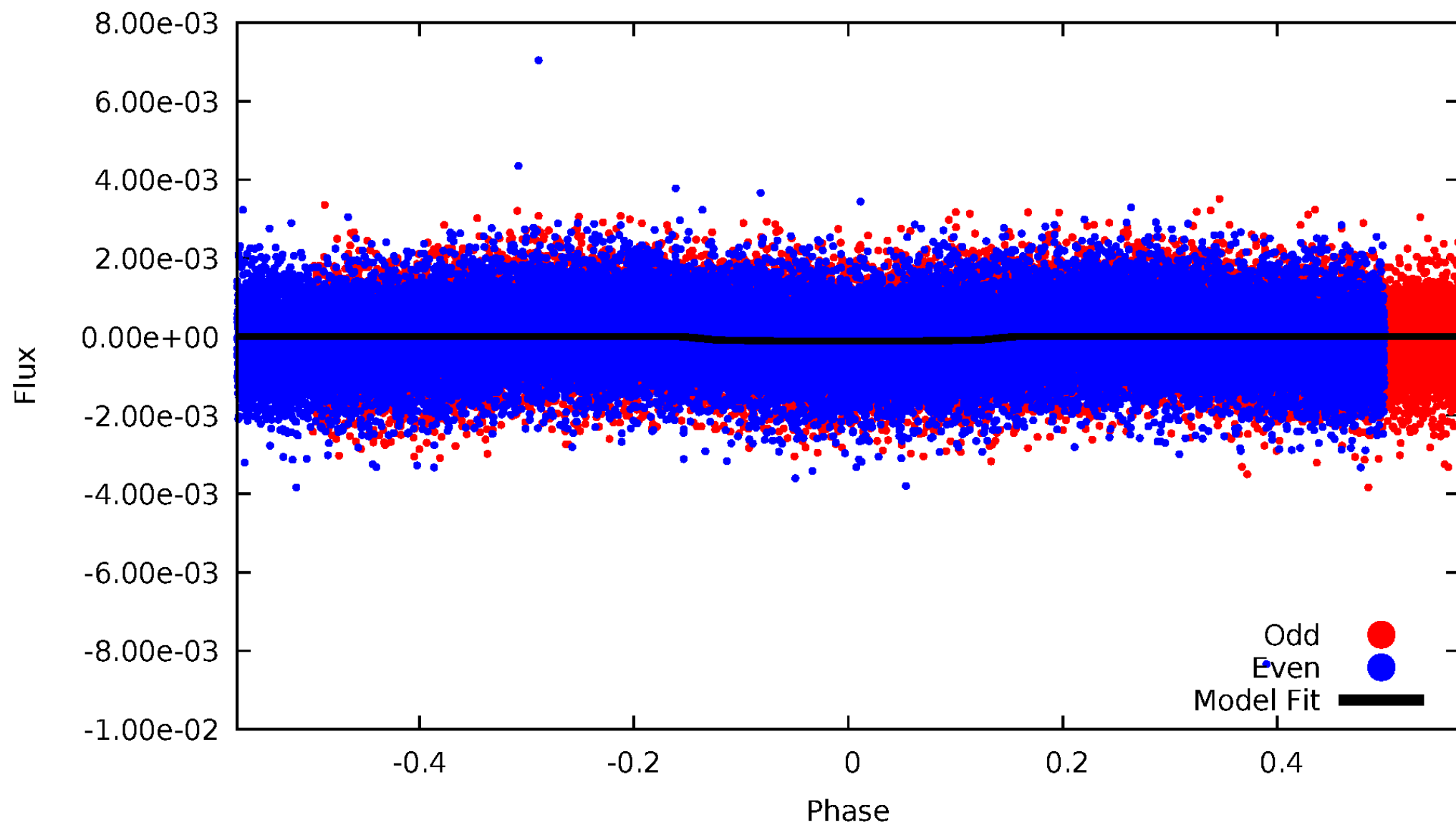


TCE 006635026-01



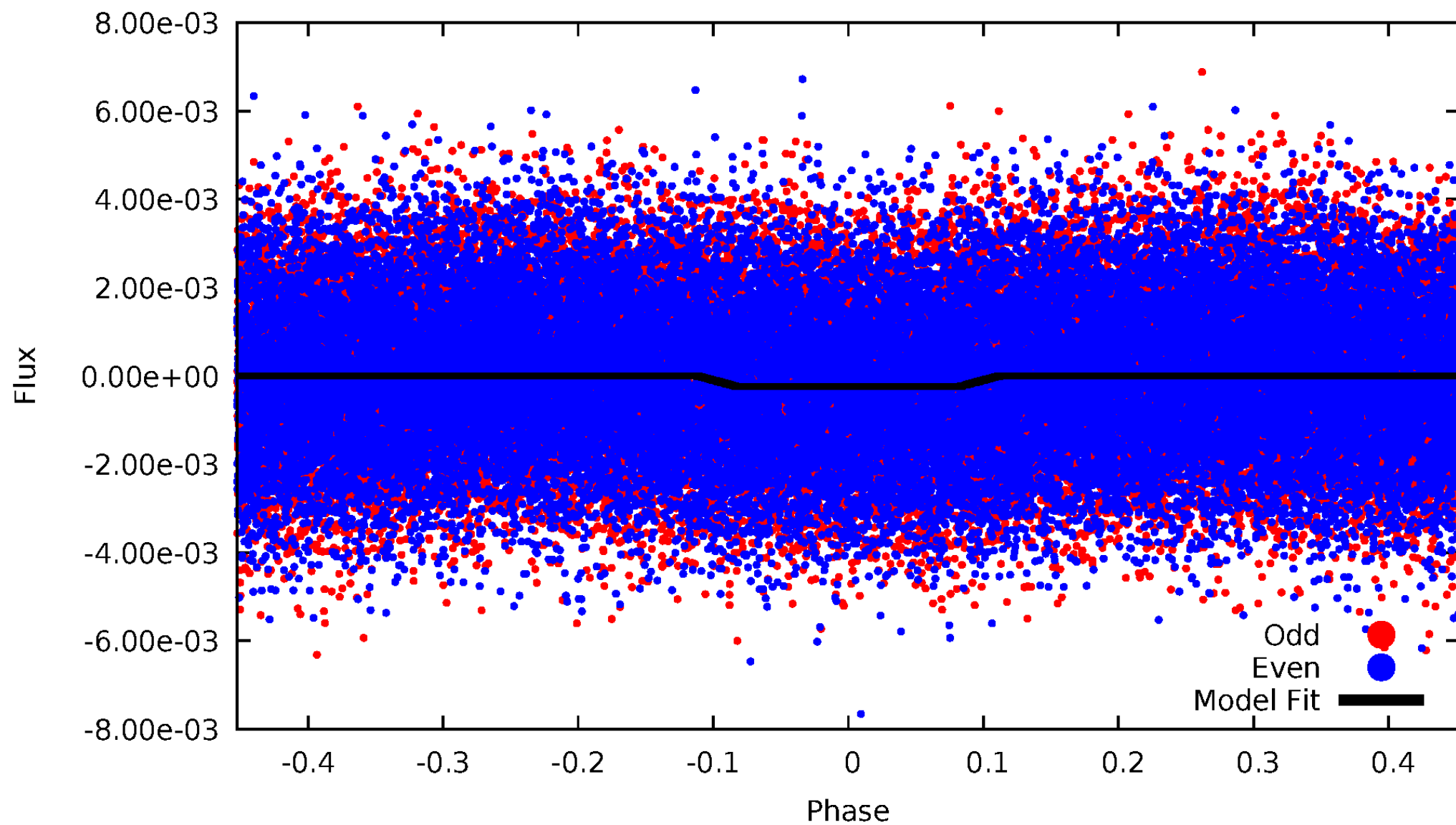
DV Odd/Even

TCE 006635026-01



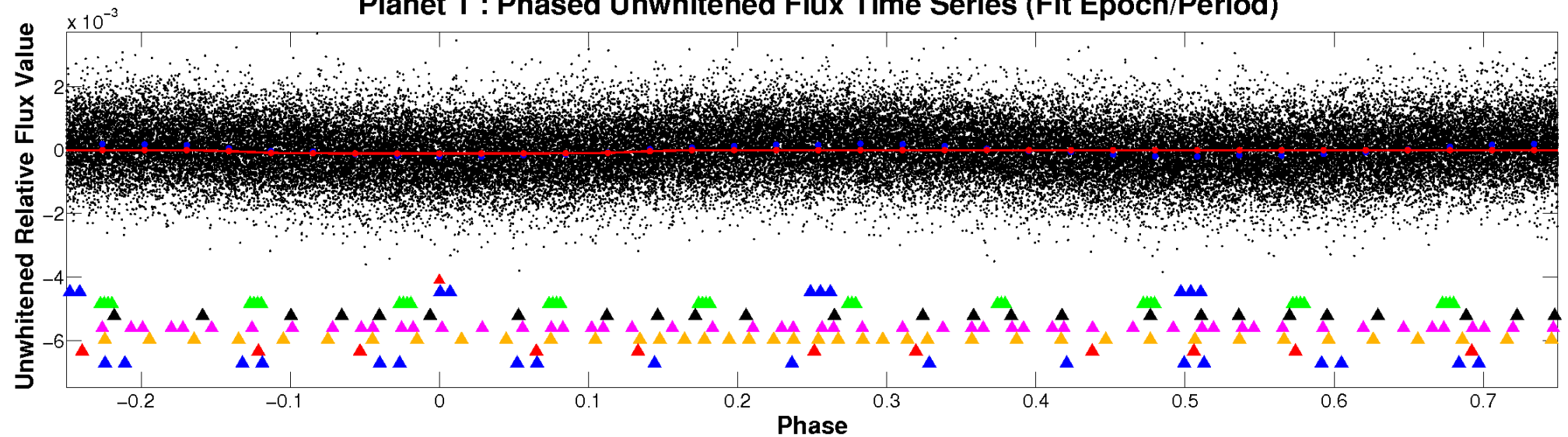
ALT Odd/Even

TCE 006635026-01

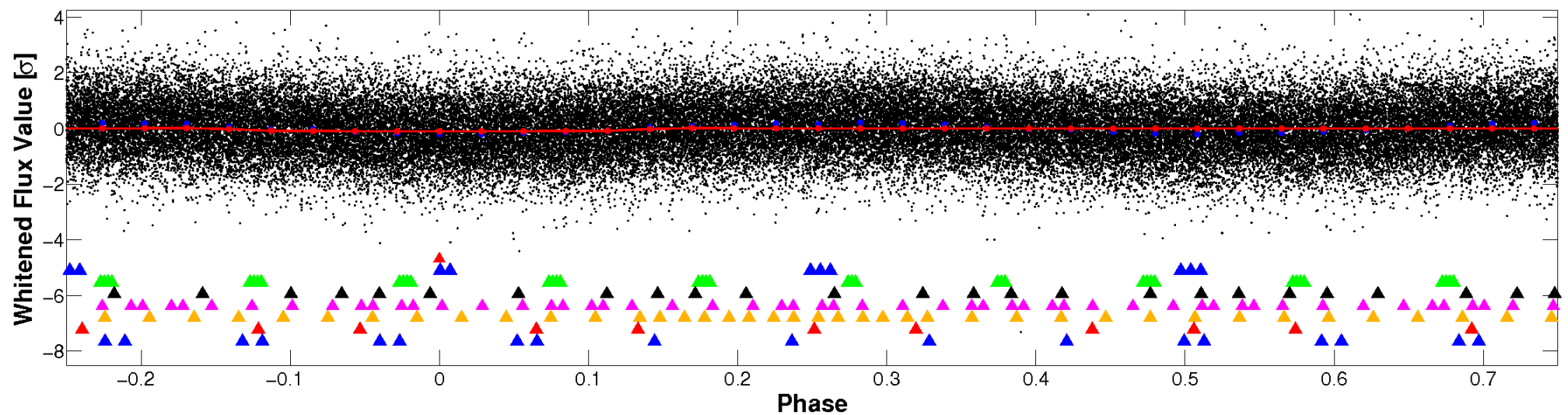


Non-Whitened Vs. Whitened Light Curve

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

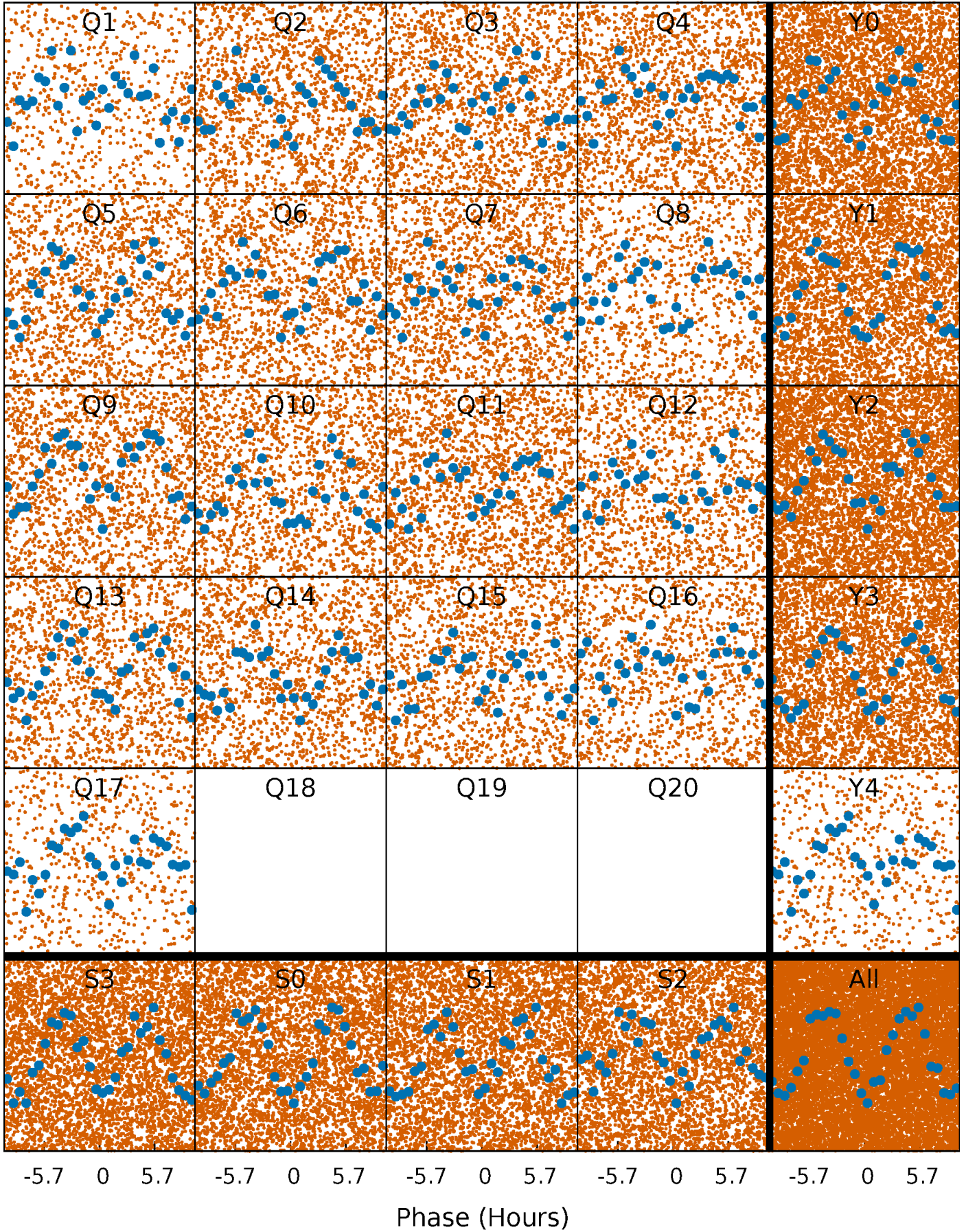


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



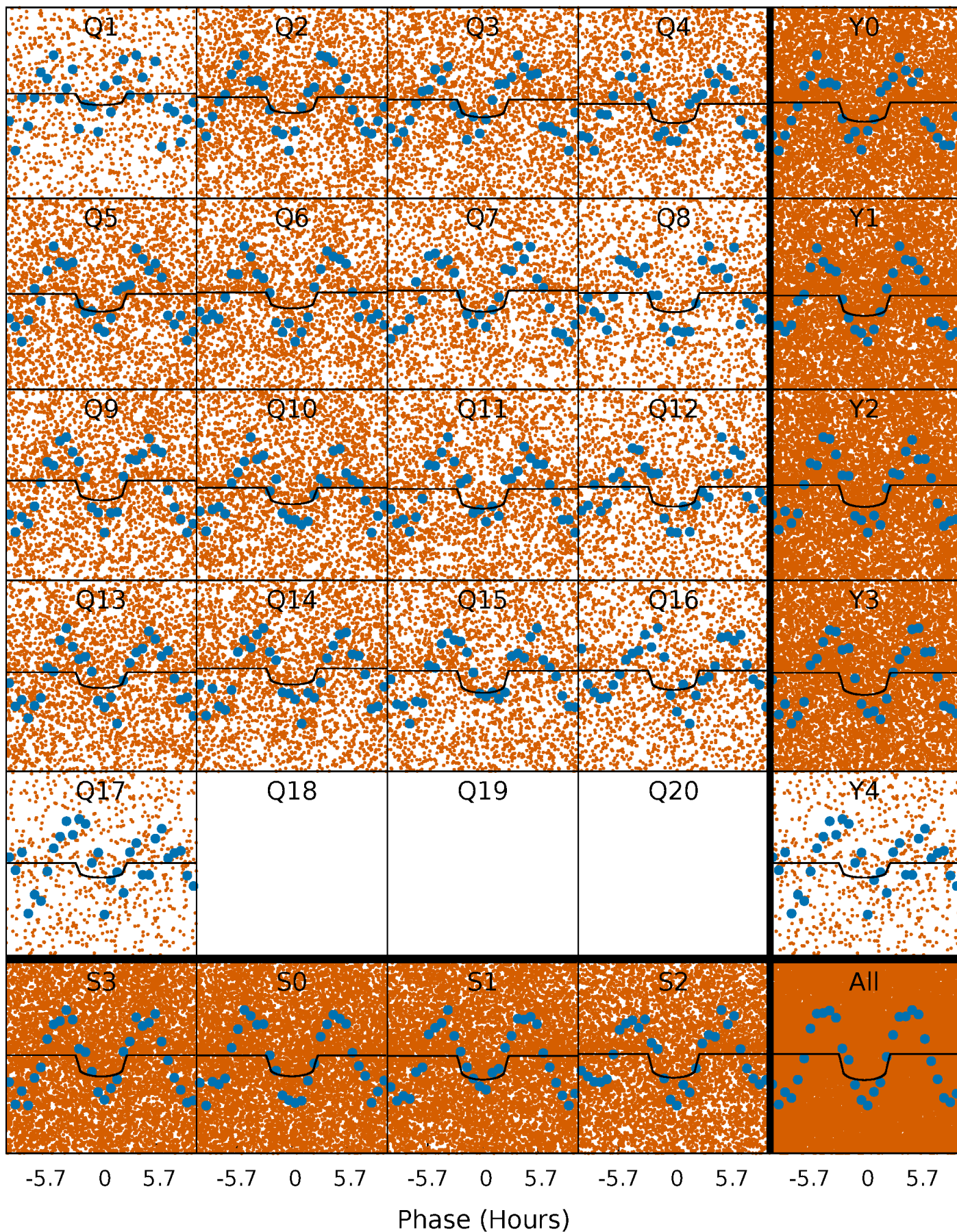
PDC Quarter-Phased Transit Curves

TCE 006635026-01 P= 0.723688 Days $T_0=131.859976$ (BKJD)



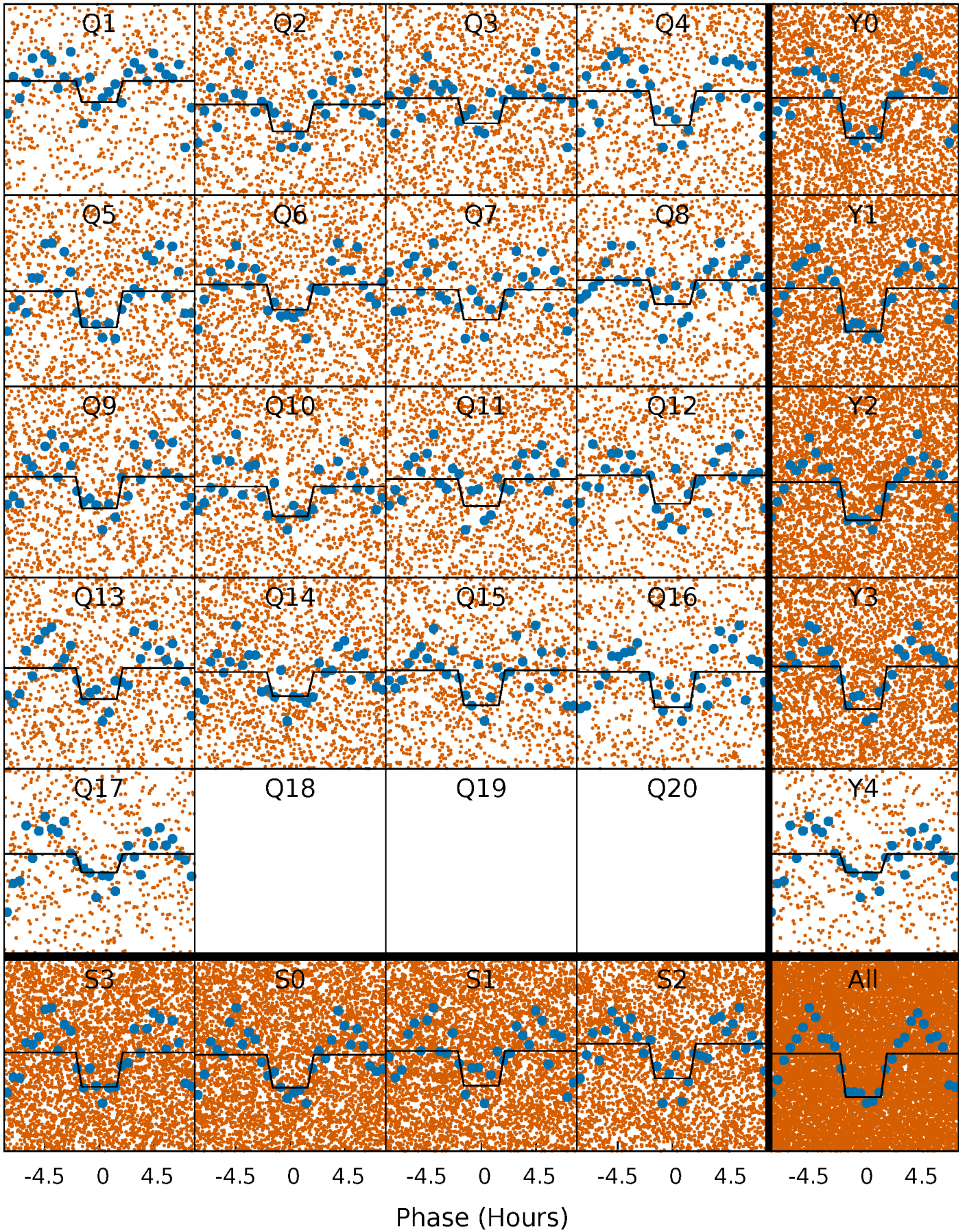
DV Quarter-Phased Transit Curves

TCE 006635026-01 P= 0.723688 Days $T_0=131.859976$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

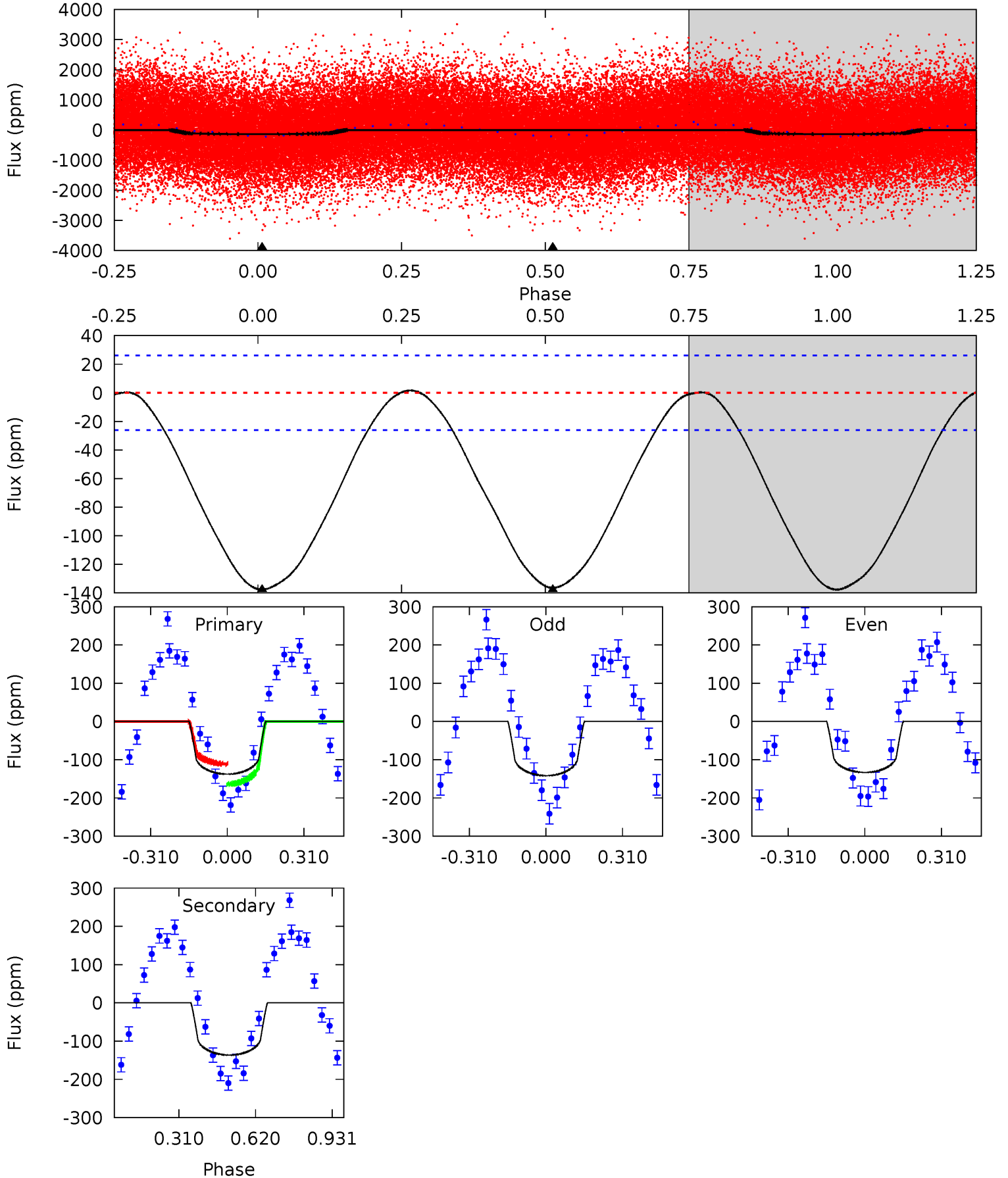
TCE 006635026-01 P= 0.723731 Days $T_0=131.825248$ (BKJD)



DV Model-Shift Uniqueness Test

006635026-01, P = 0.723688 Days, E = 131.136288 Days

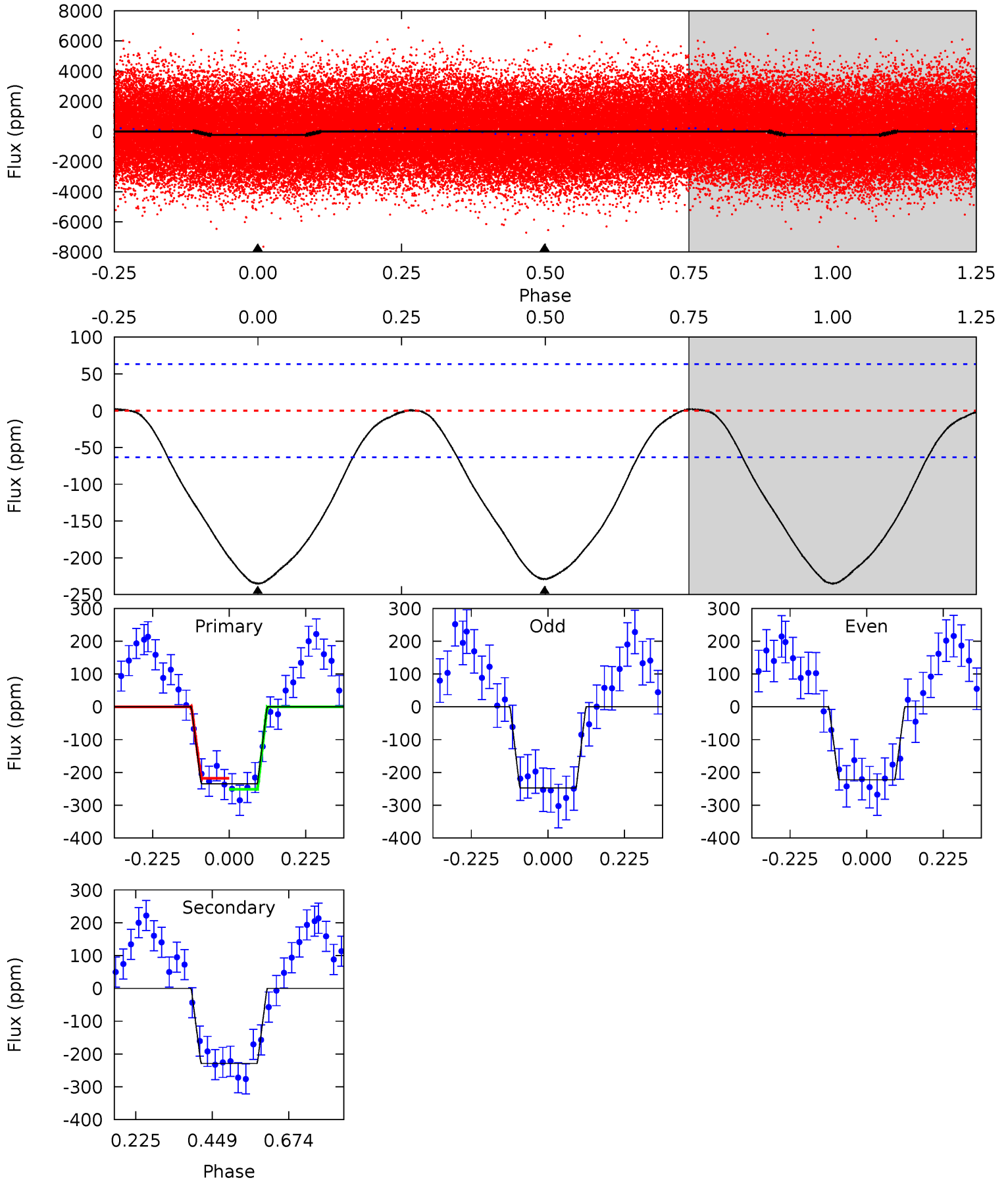
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.8	22.6	0	0	4.32	1.01	0.22	22.8	22.8	22.6	22.6	0.70	0.98	0.01	4.34



Alt Model-Shift Uniqueness Test

006635026-01, P = 0.723731 Days, E = 131.101517 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.3	15.9	0	0	4.39	1.21	0.23	16.3	16.3	15.9	15.9	0.87	1.12	0.01	1.16



Stellar Parameters For KIC 006635026

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7485^{+209}_{-340}	$3.952^{+0.260}_{-0.140}$	$-0.060^{+0.200}_{-0.400}$	$2.310^{+0.507}_{-0.760}$	$1.743^{+0.195}_{-0.363}$	$0.199^{+0.337}_{-0.084}$
	+3%/-5%	+7%/-4%	+333%/-667%	+22%/-33%	+11%/-21%	+169%/-42%
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 006635026-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-136 ± 6	$2.67^{+2.15}_{-1.62}$	5000^{+361}_{-411}	7362^{+8237}_{-1988}	$3.759^{+19.655}_{-2.577}$
Alt.	-229 ± 14	$3.78^{+2.19}_{-1.90}$	5036^{+327}_{-430}	7094^{+4318}_{-1617}	$3.175^{+9.380}_{-1.913}$

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

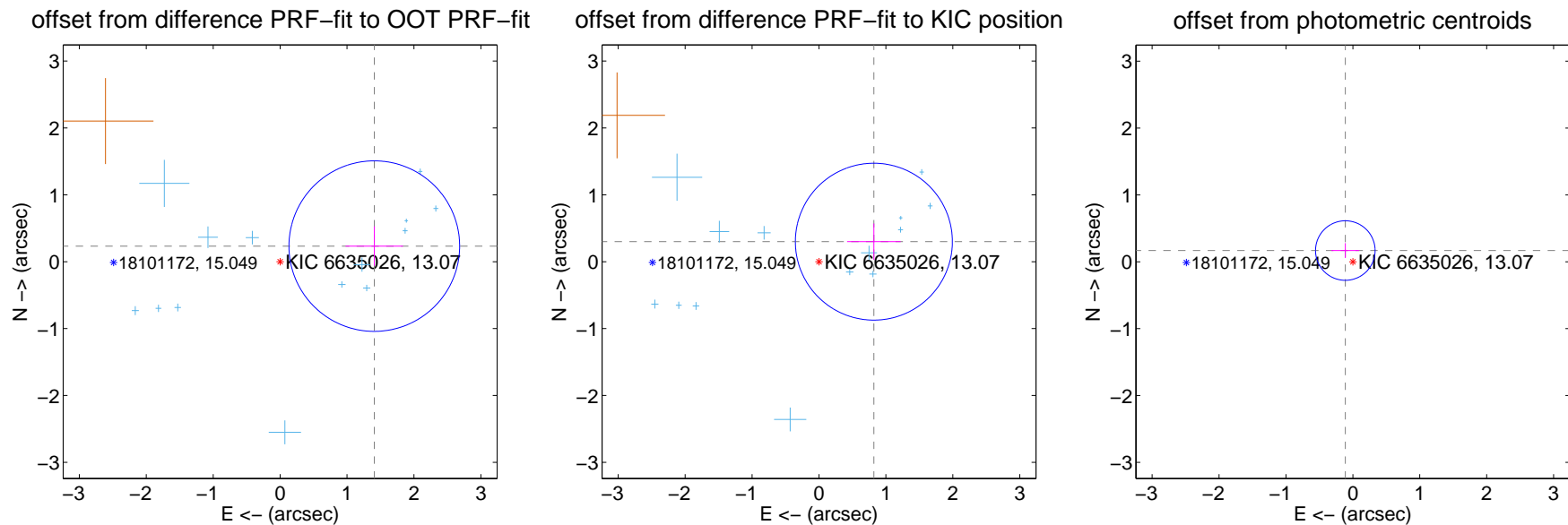
DV Centroid Data

Supplemental centroid analysis for 006635026-01. Kepler magnitude: 13.07. Transit SNR 11.82

There are 14 quarters with good PRF difference image offsets

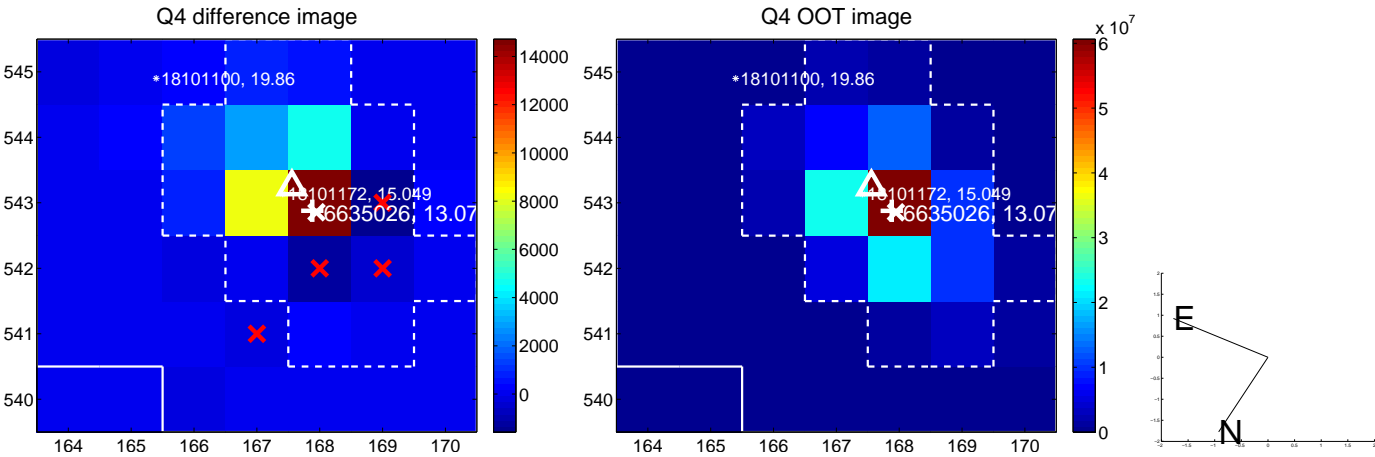
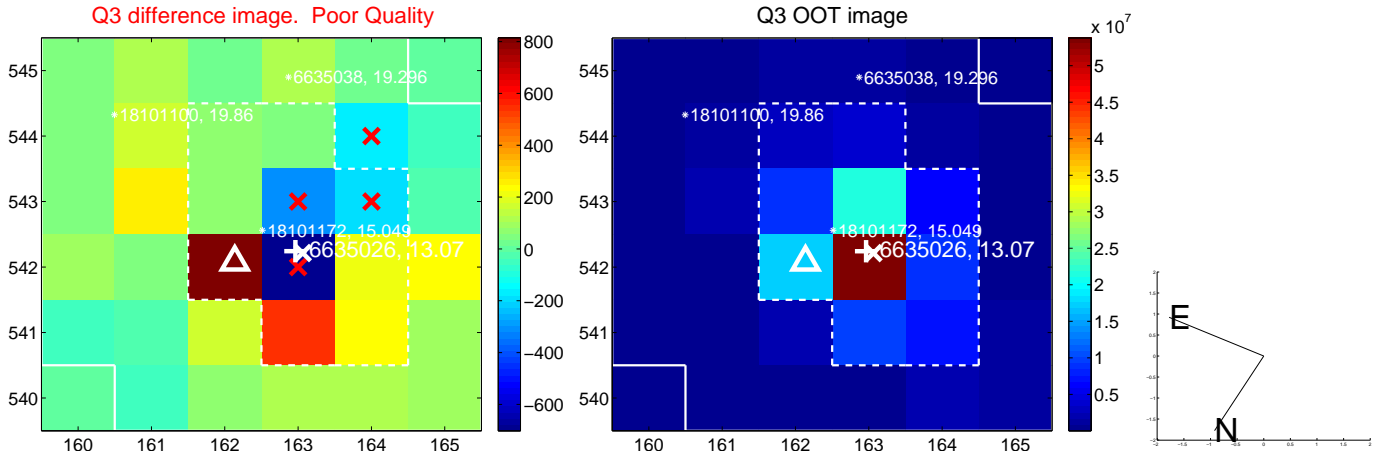
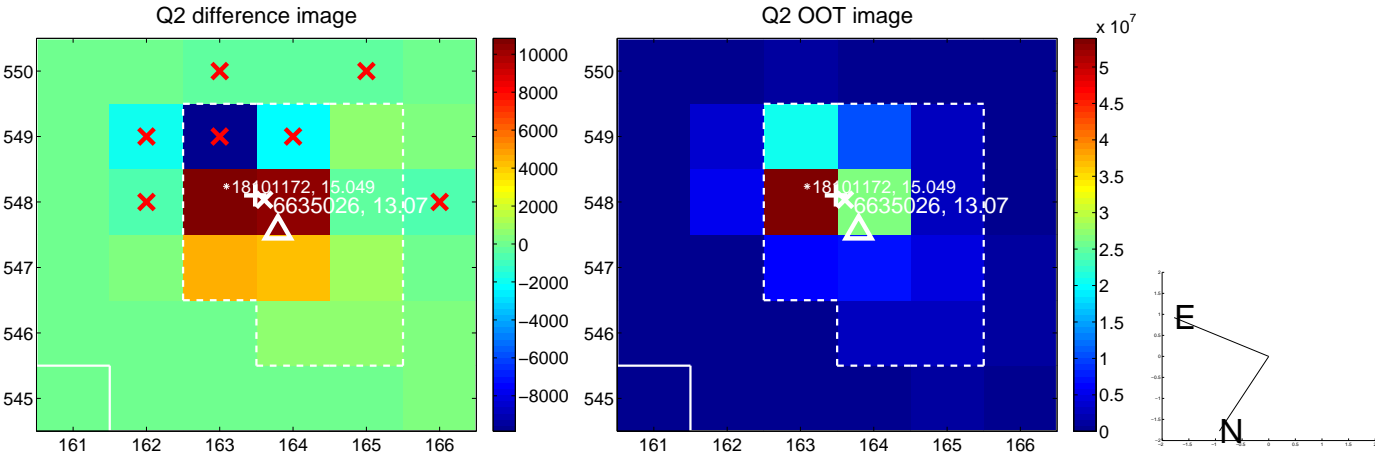
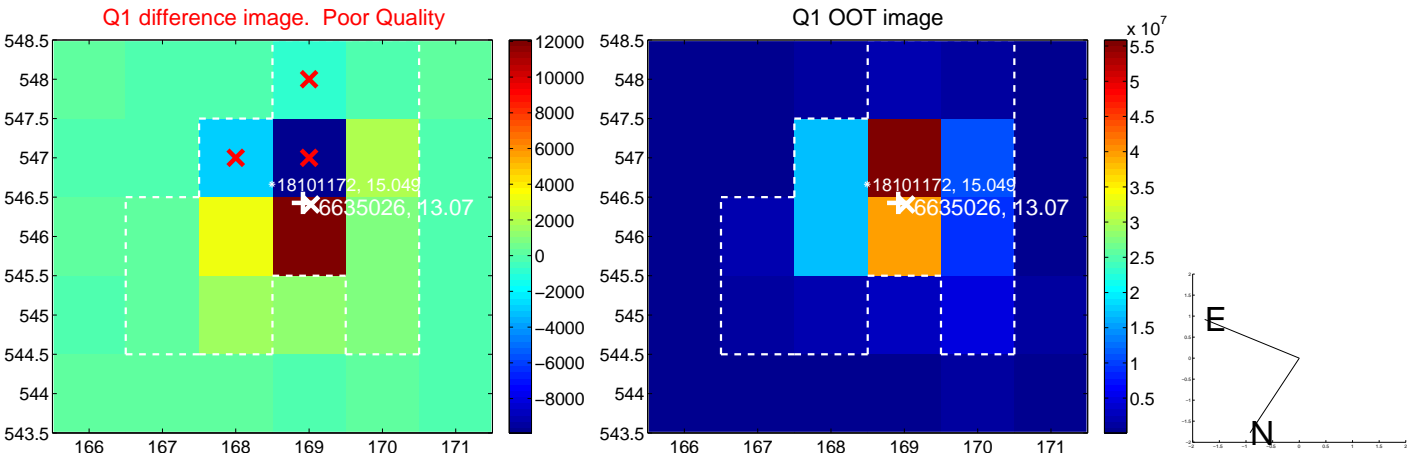
The direct PRF centroid is offset from the target star catalog position by about 0.54 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.426 ± 0.425	3.36	-1.407 ± 0.428	0.233 ± 0.295
PRF-fit source offset from KIC position	0.873 ± 0.391	2.23	-0.820 ± 0.400	0.299 ± 0.273
photometric centroid source offset	0.20 ± 0.15	1.36	0.11 ± 0.21	0.17 ± 0.11

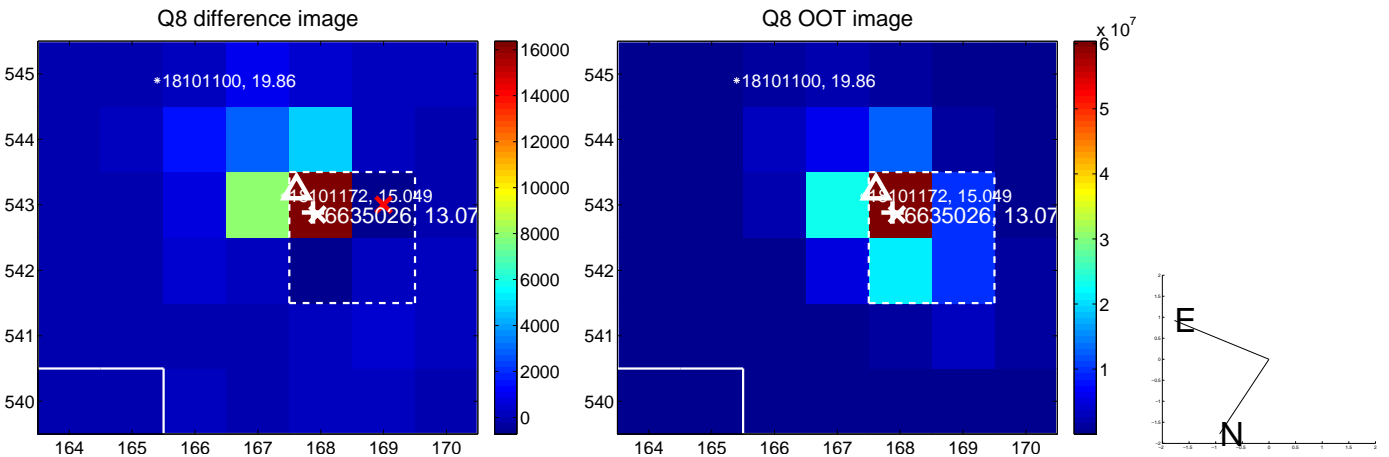
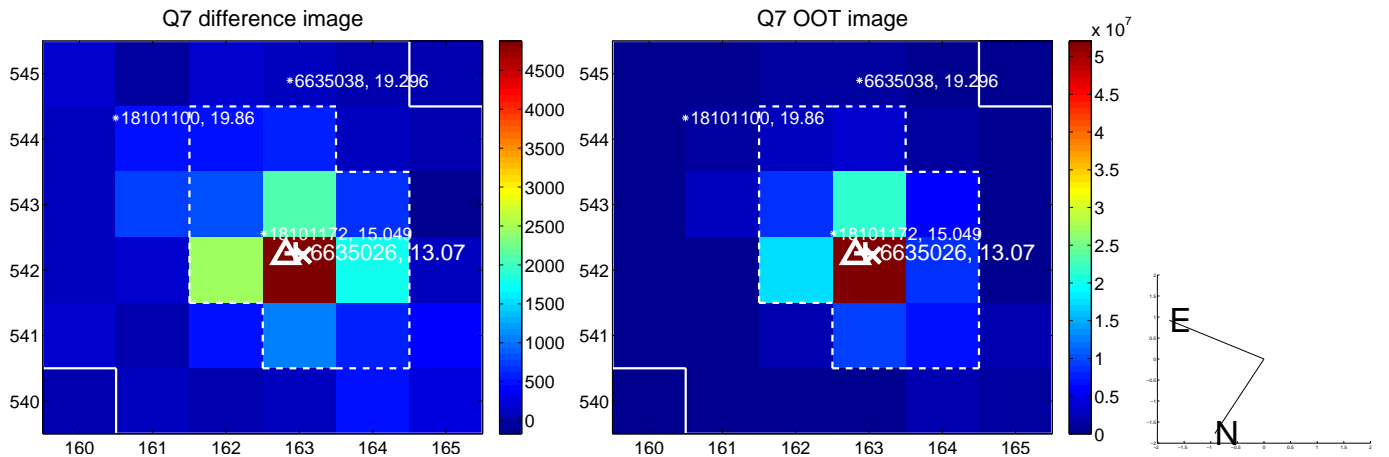
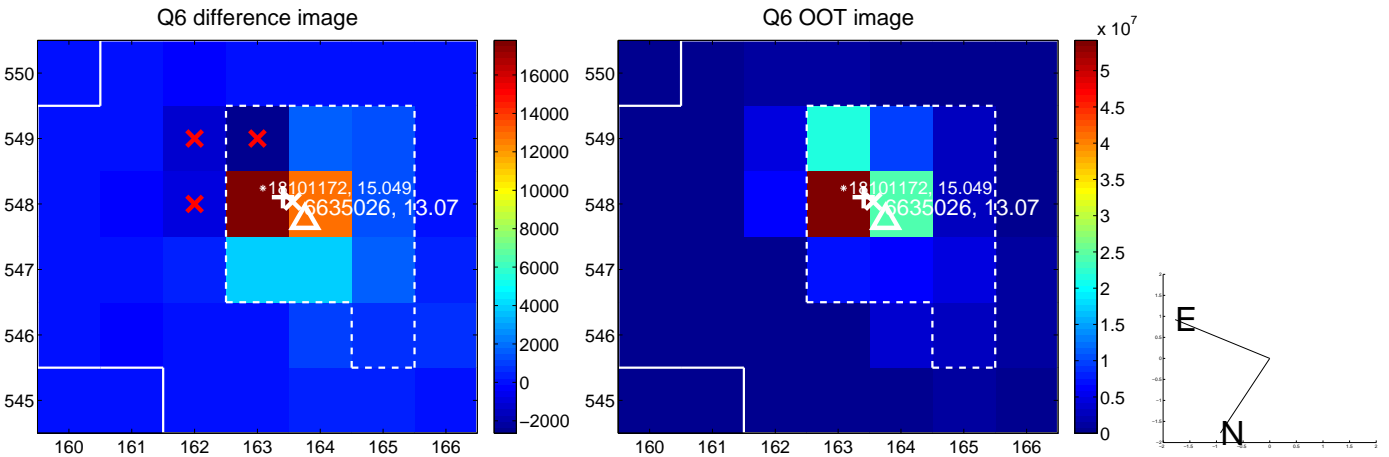
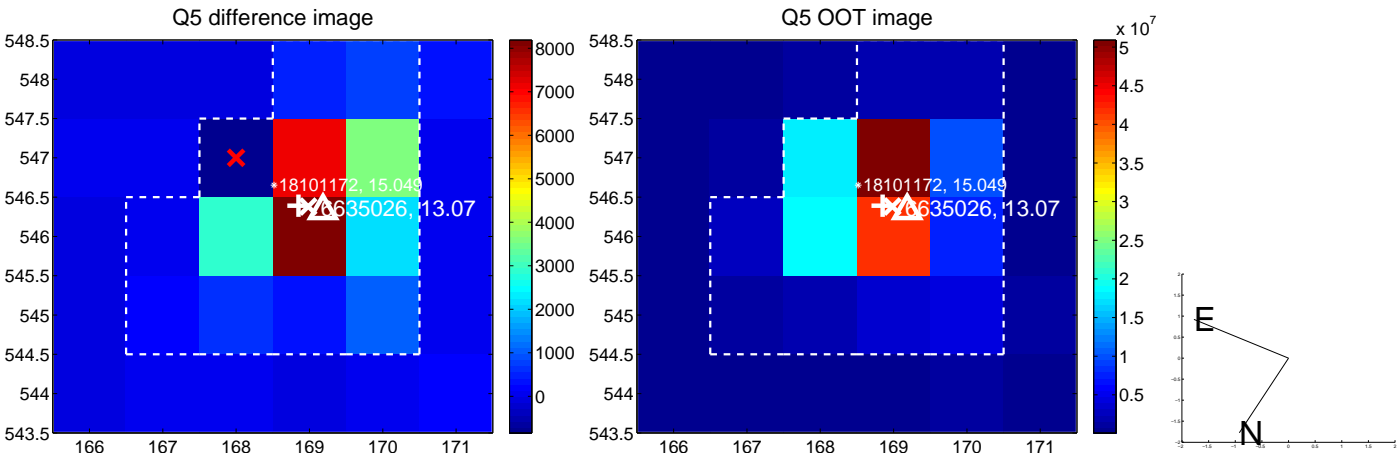


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

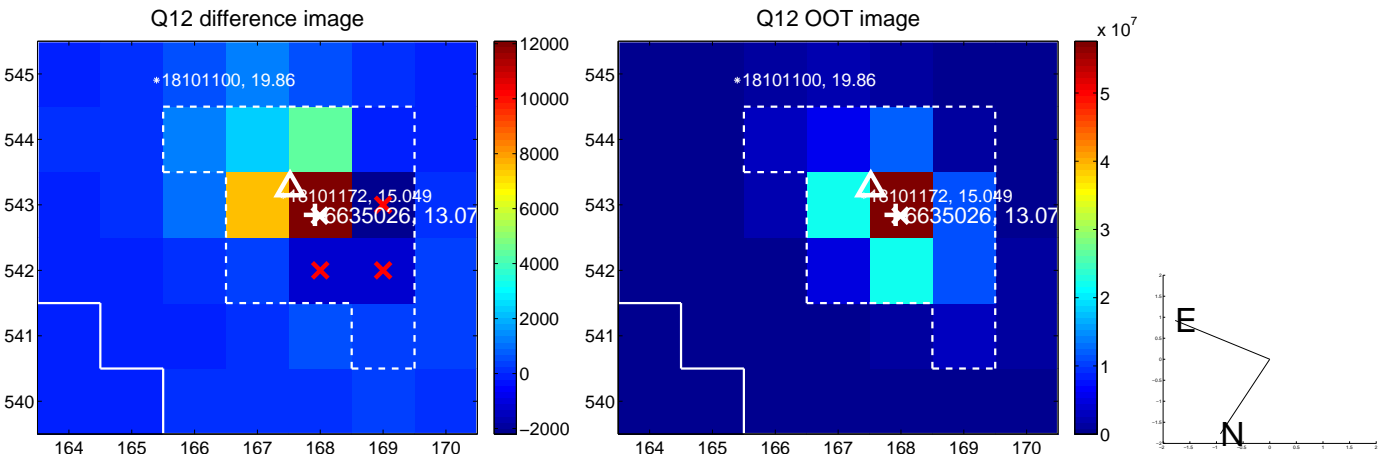
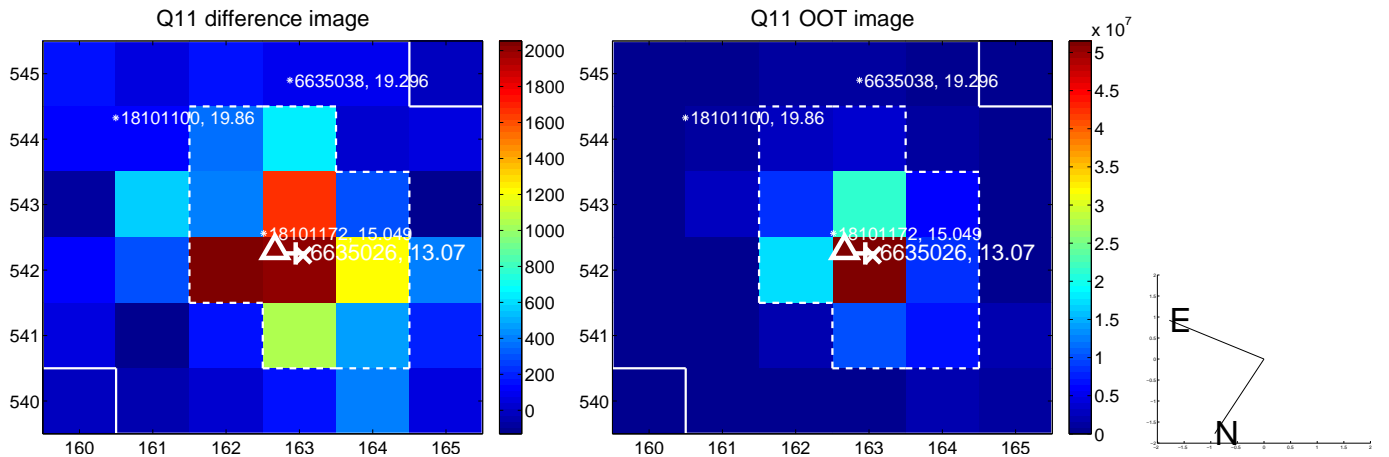
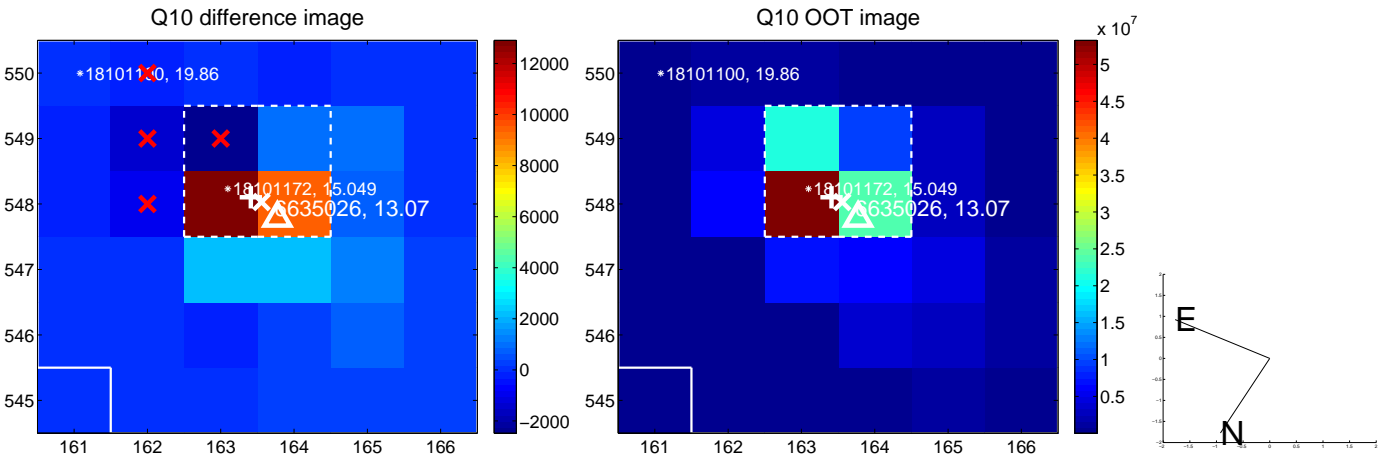
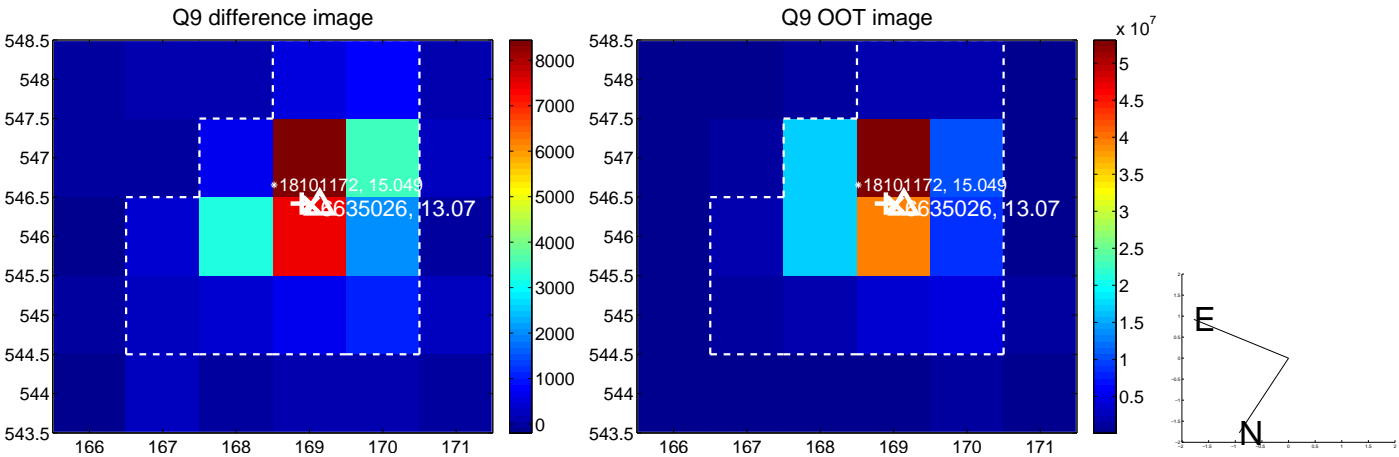
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



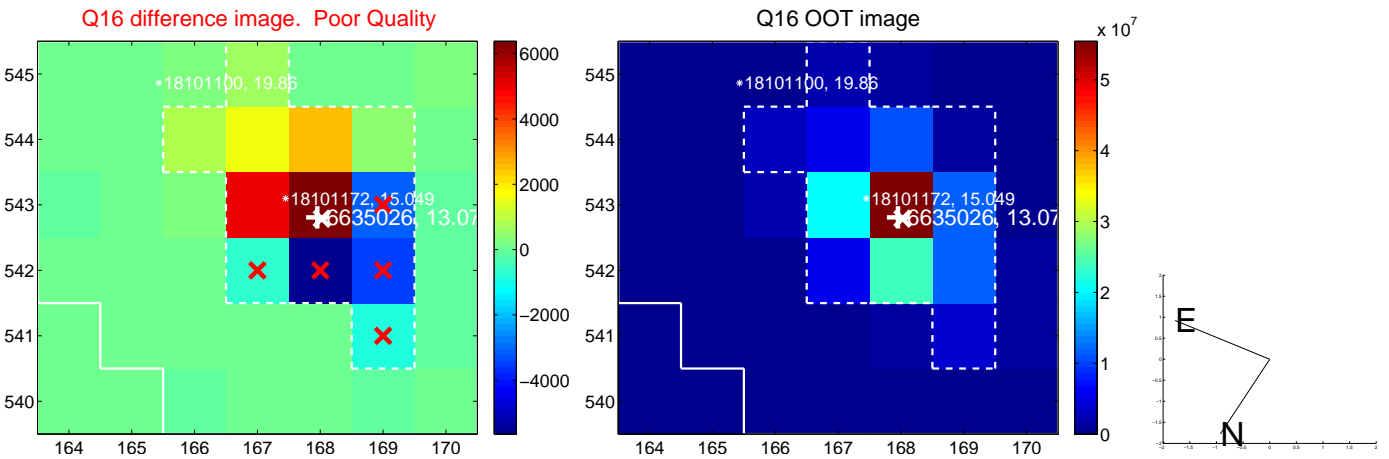
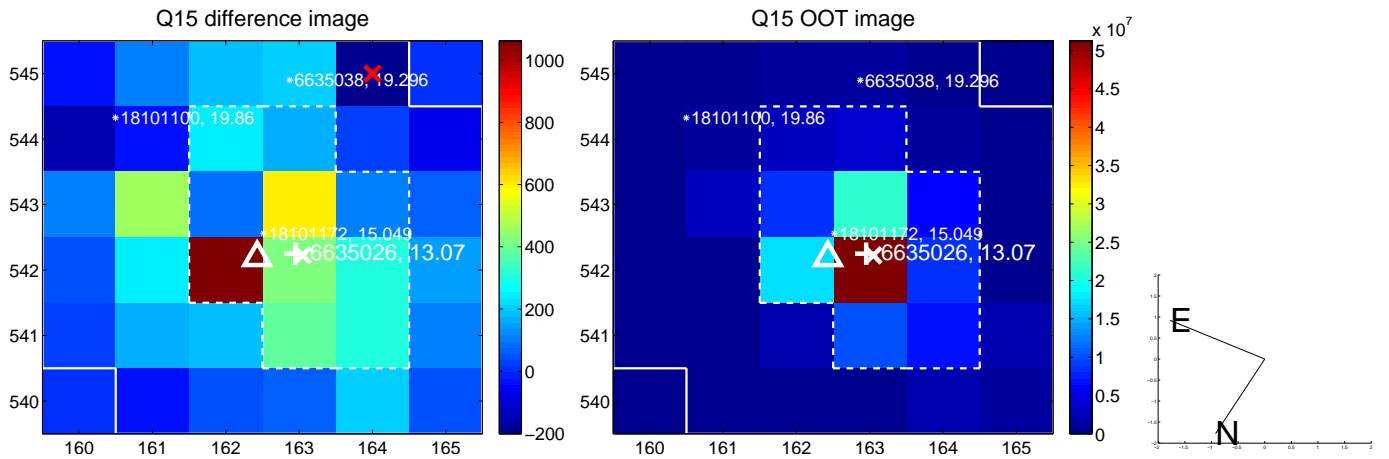
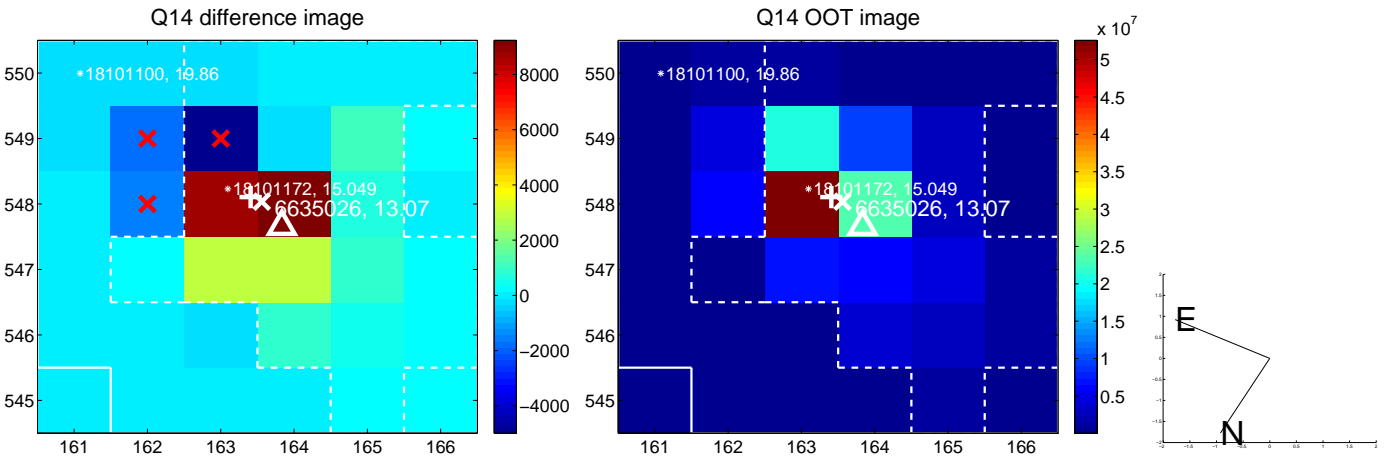
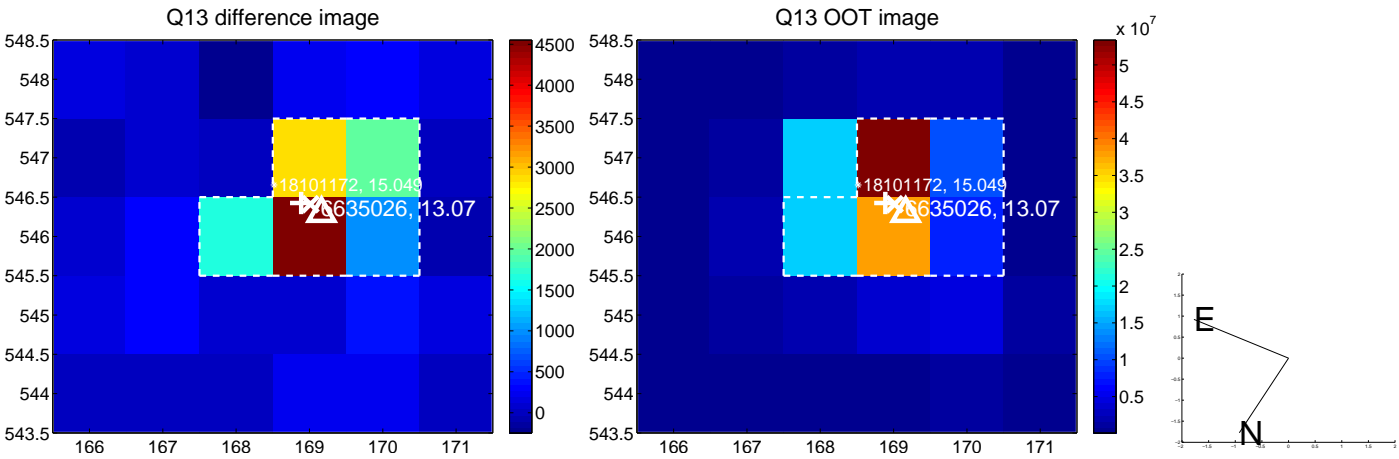
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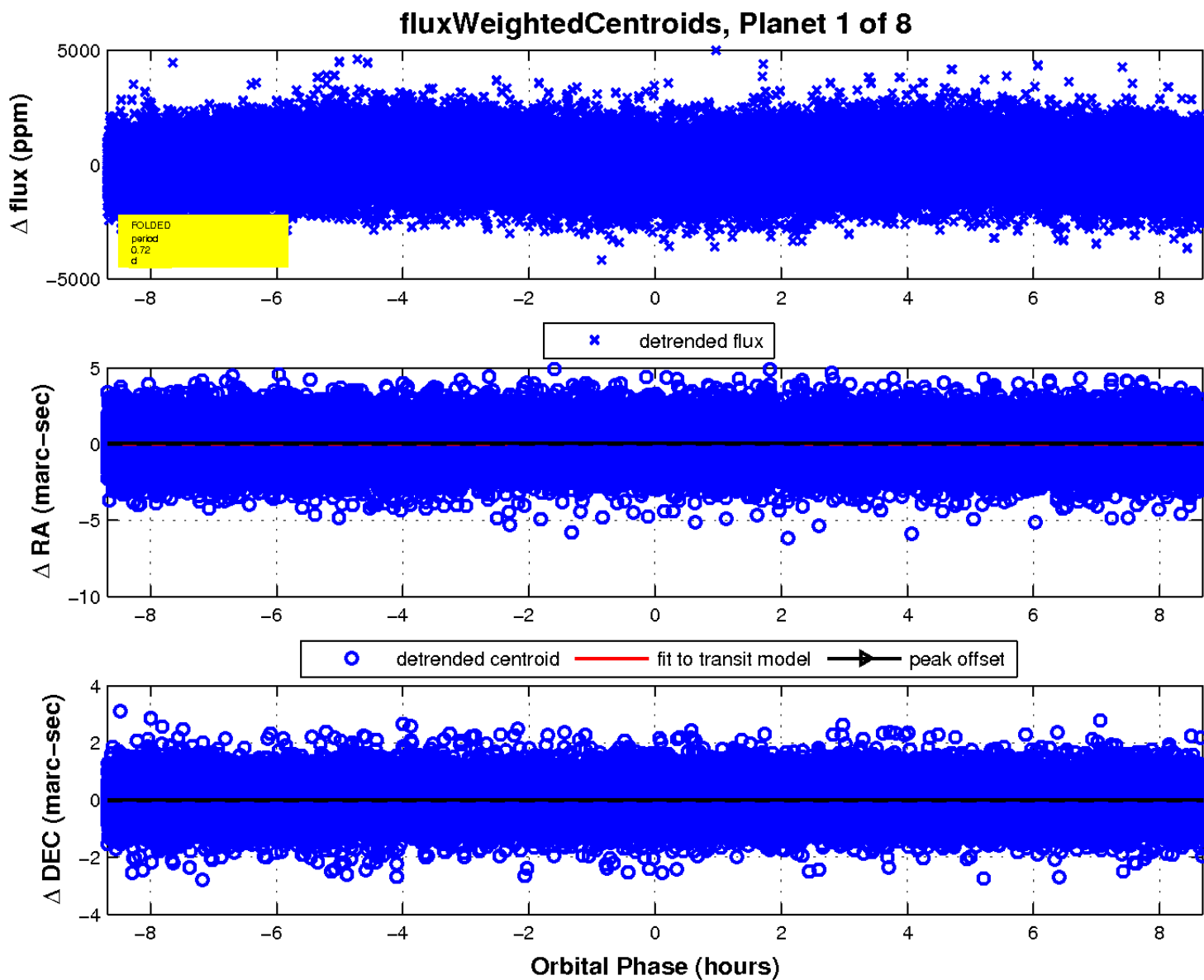
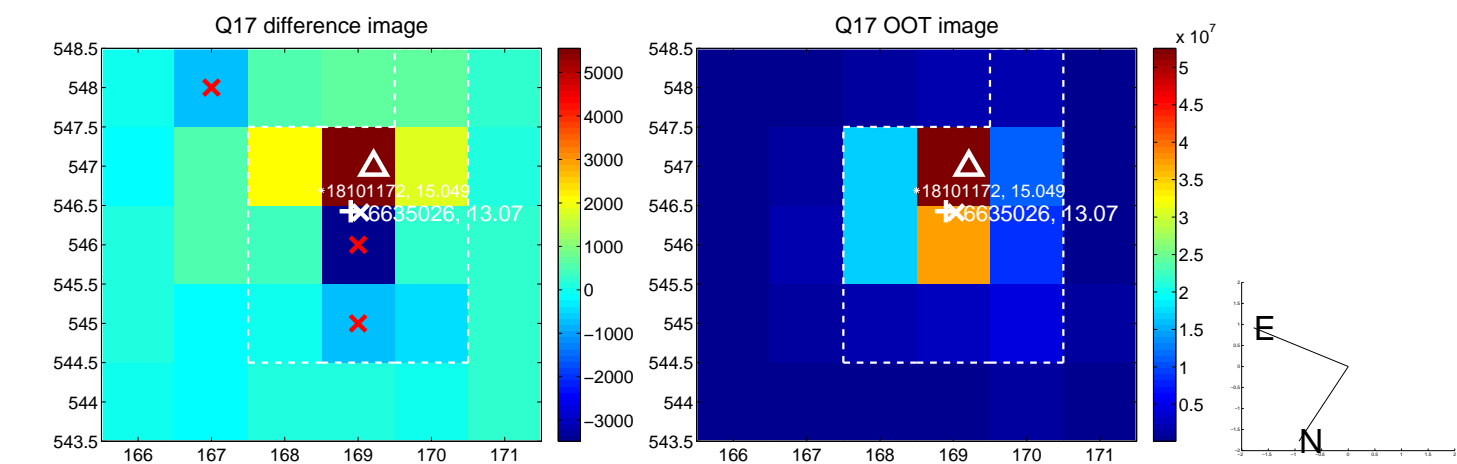
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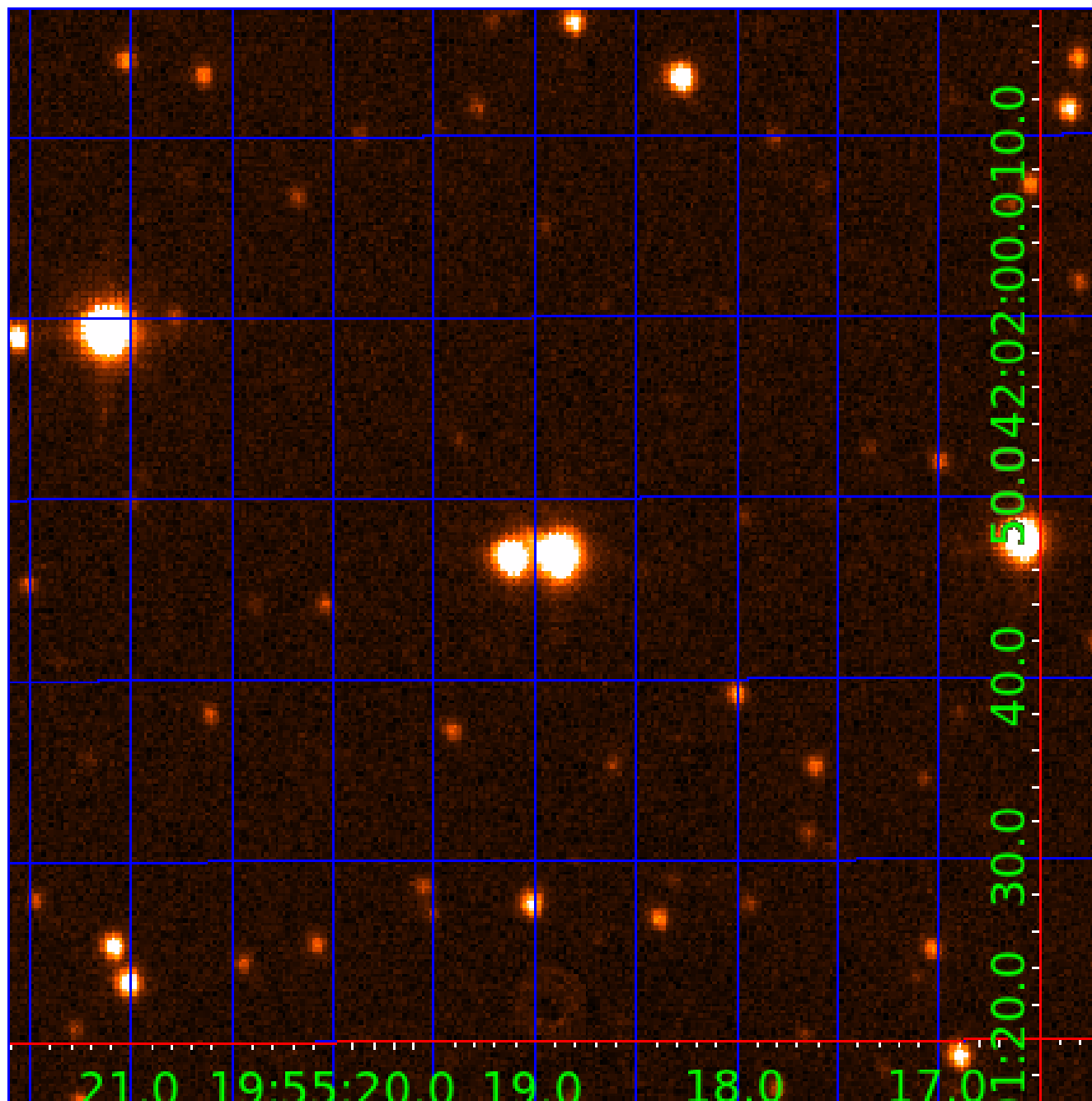


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UKIRT Image

Declination



KIC 006635026

Q1-17 DR25 TCE Parameters

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006635026-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_KIC_POS
006635026-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
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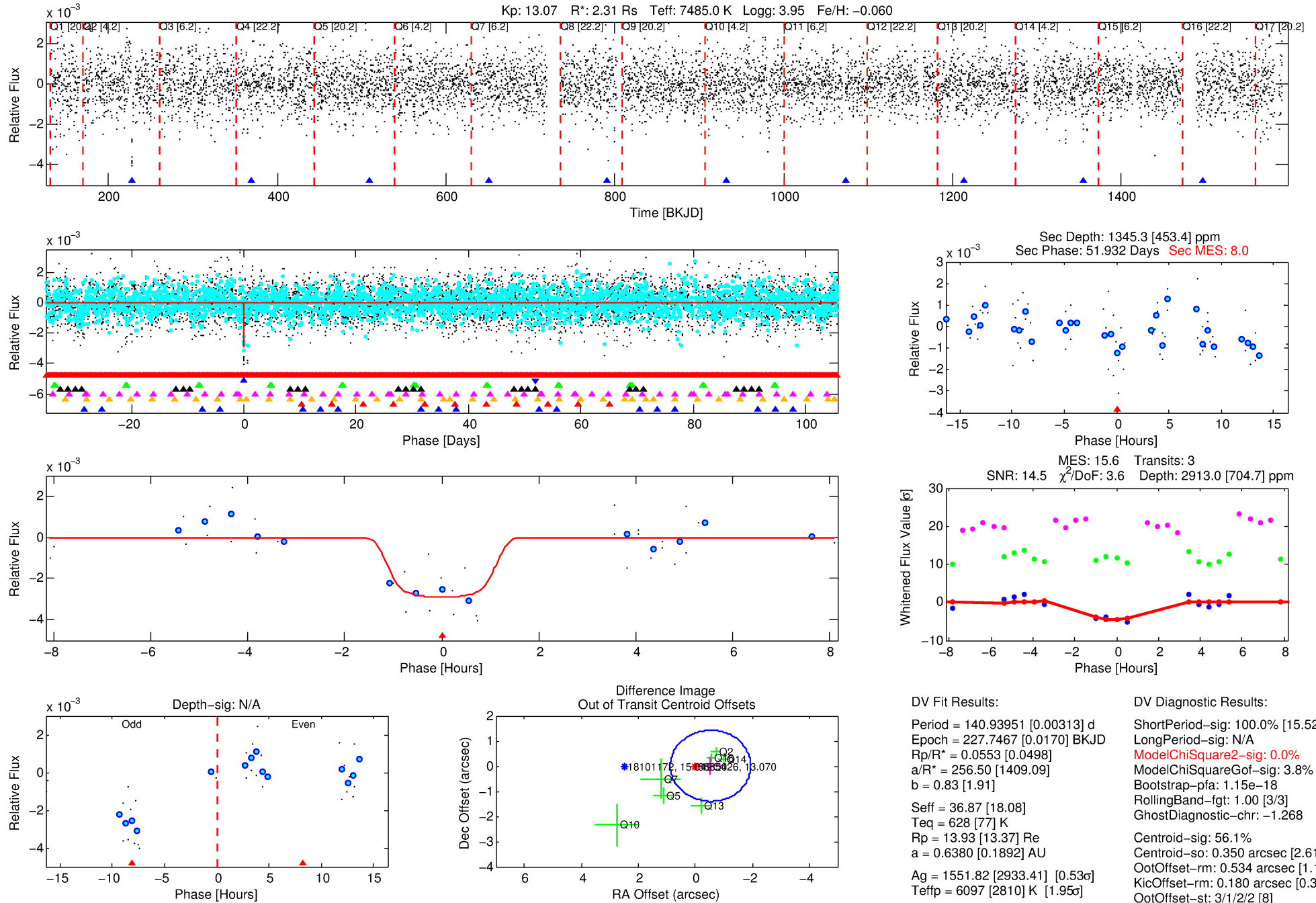
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006635026-02

No Significant Match Found

DV One-Page Summary

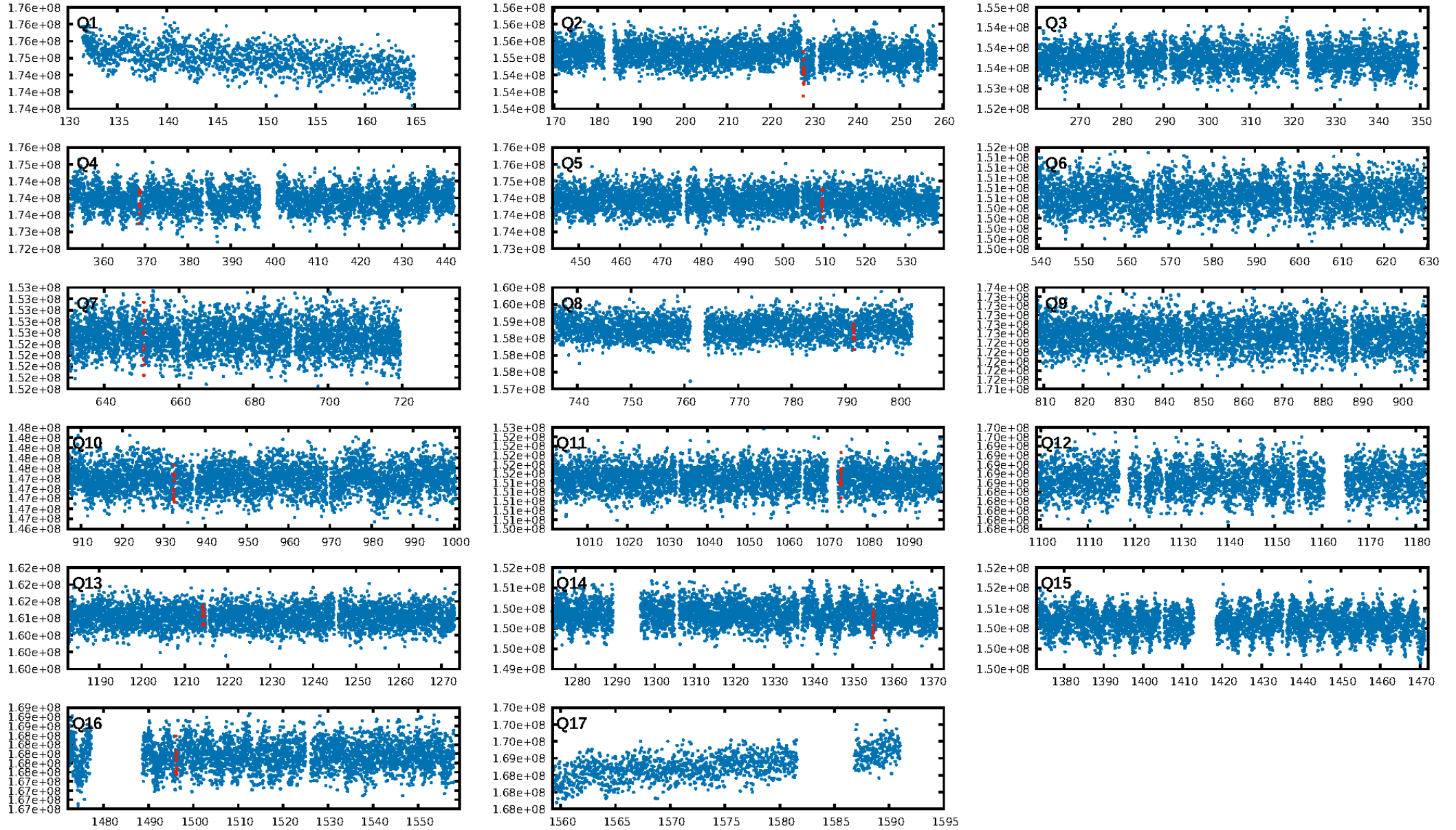
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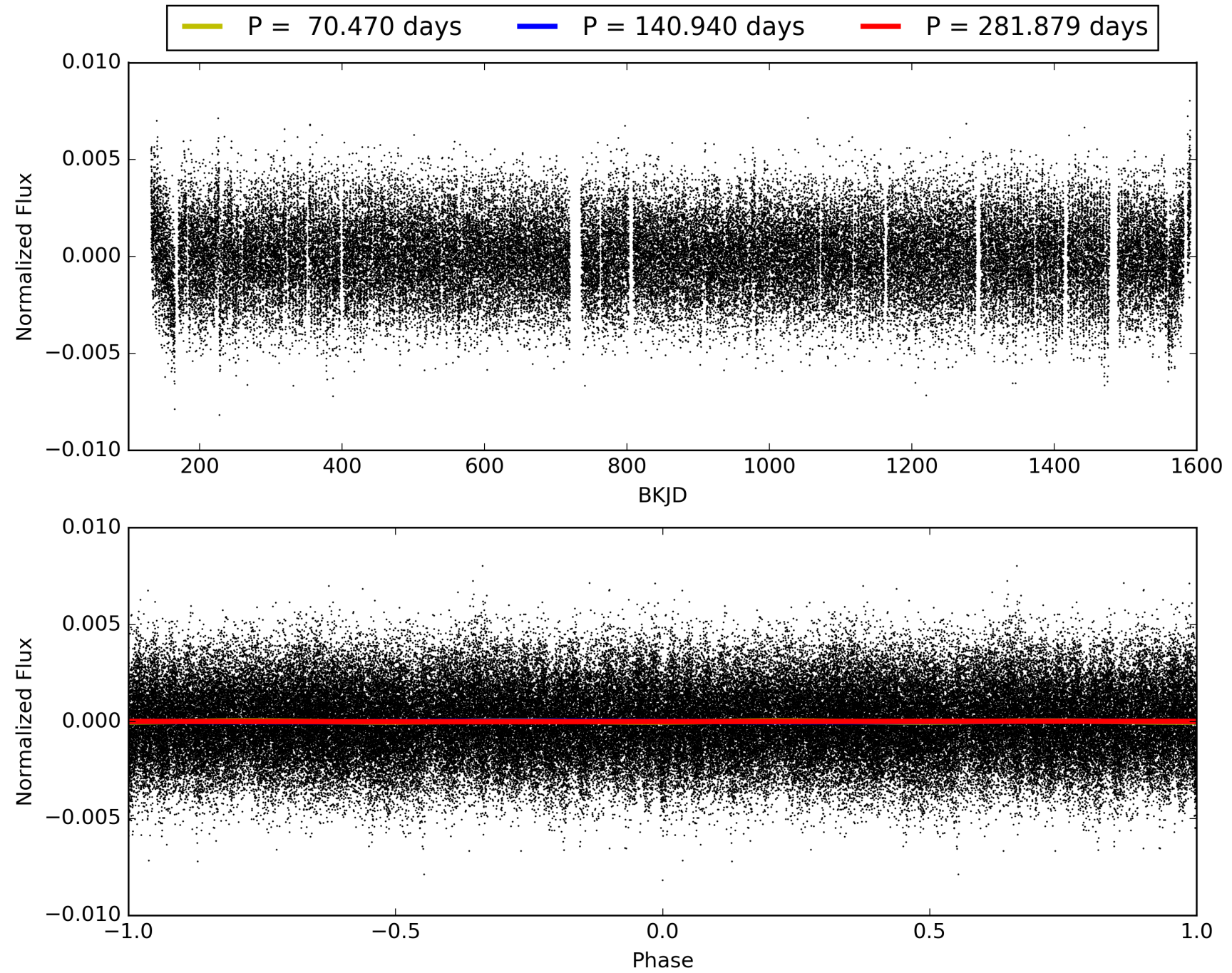
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006635026-02, PDC Light Curves

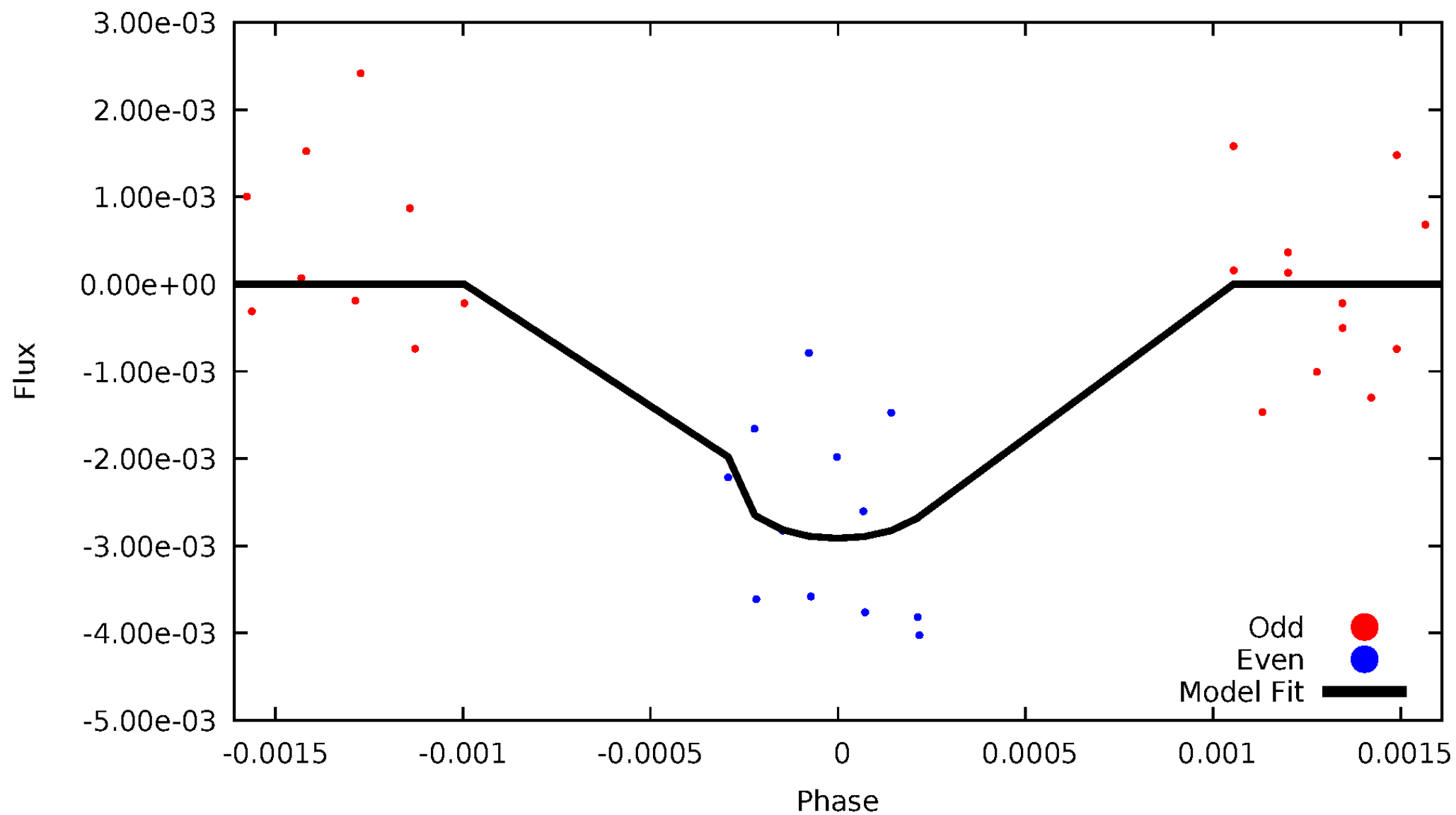


TCE 006635026-02



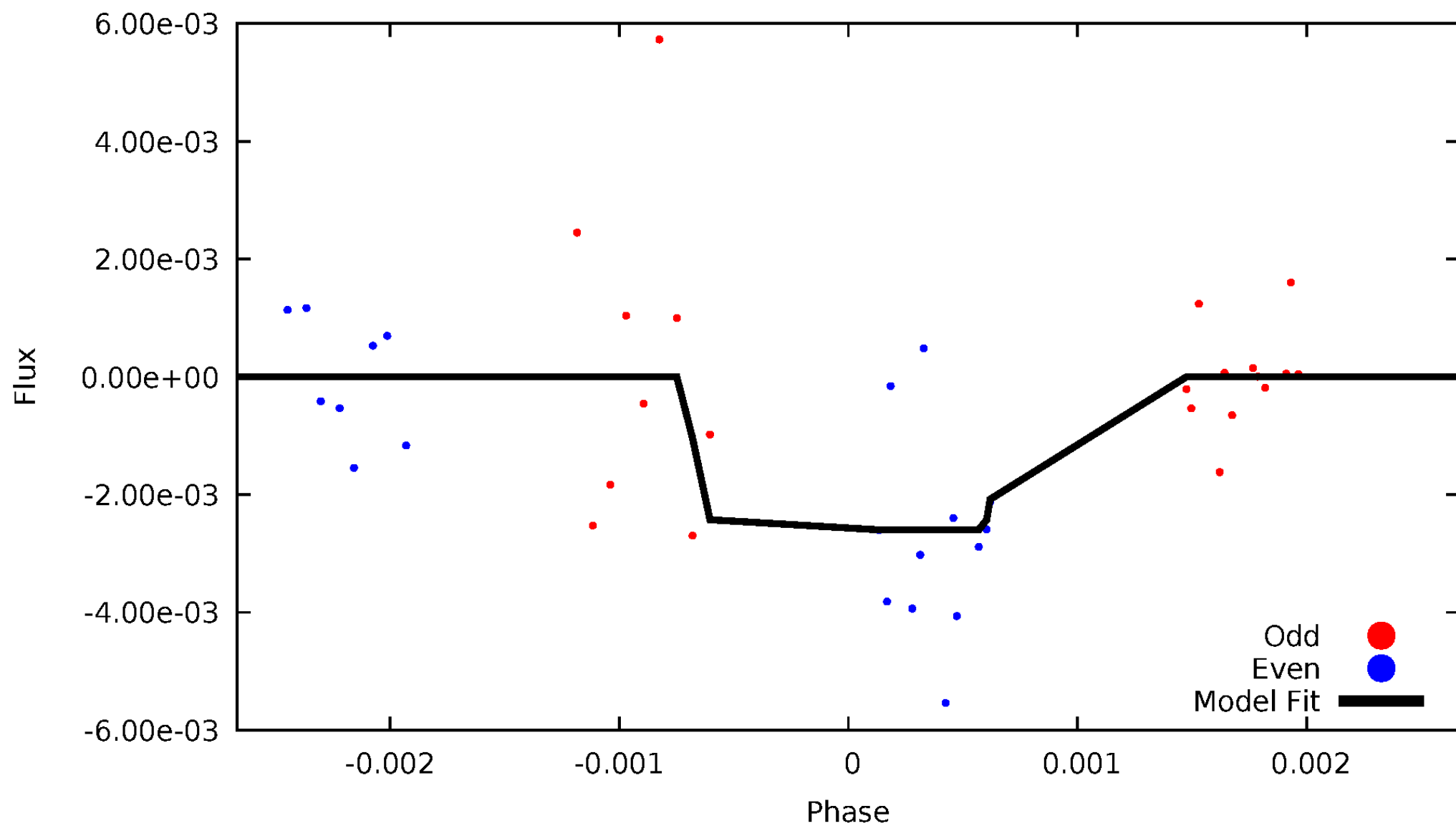
DV Odd/Even

TCE 006635026-02



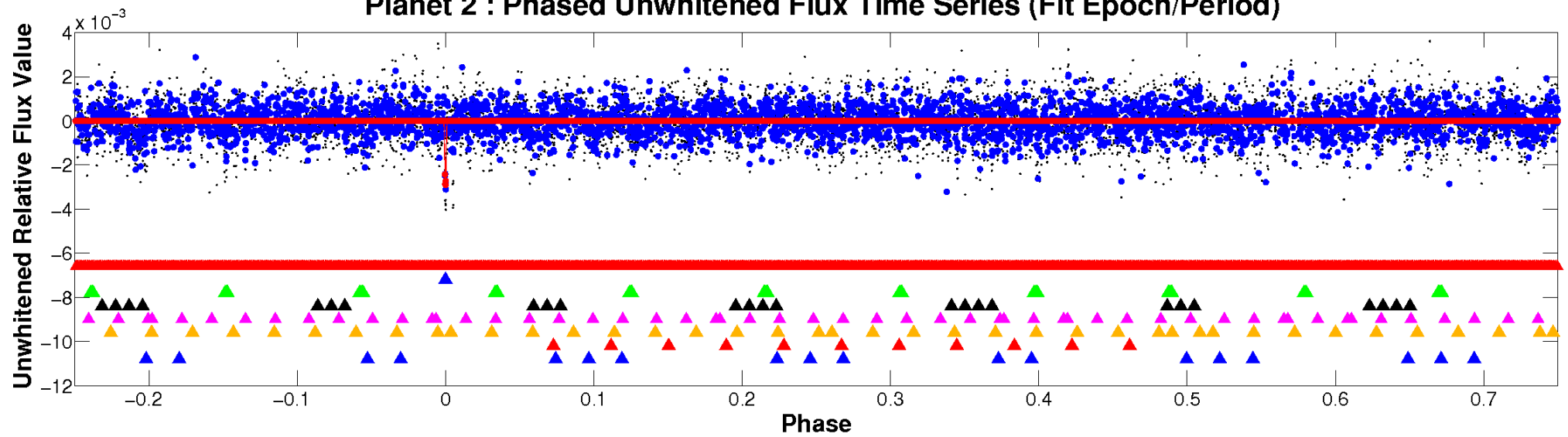
ALT Odd/Even

TCE 006635026-02

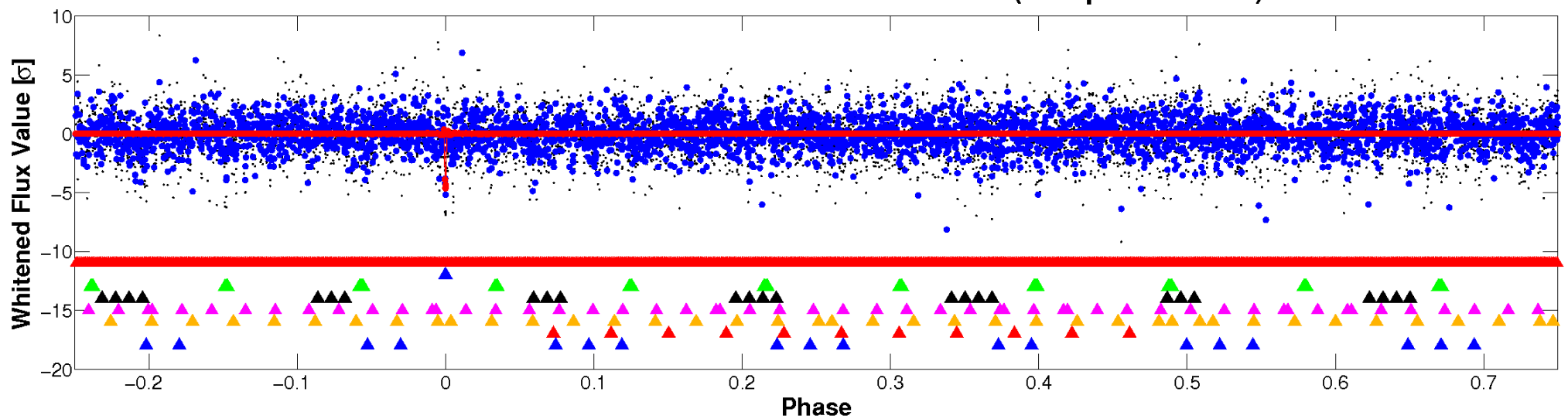


Non-Whitened Vs. Whitened Light Curve

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

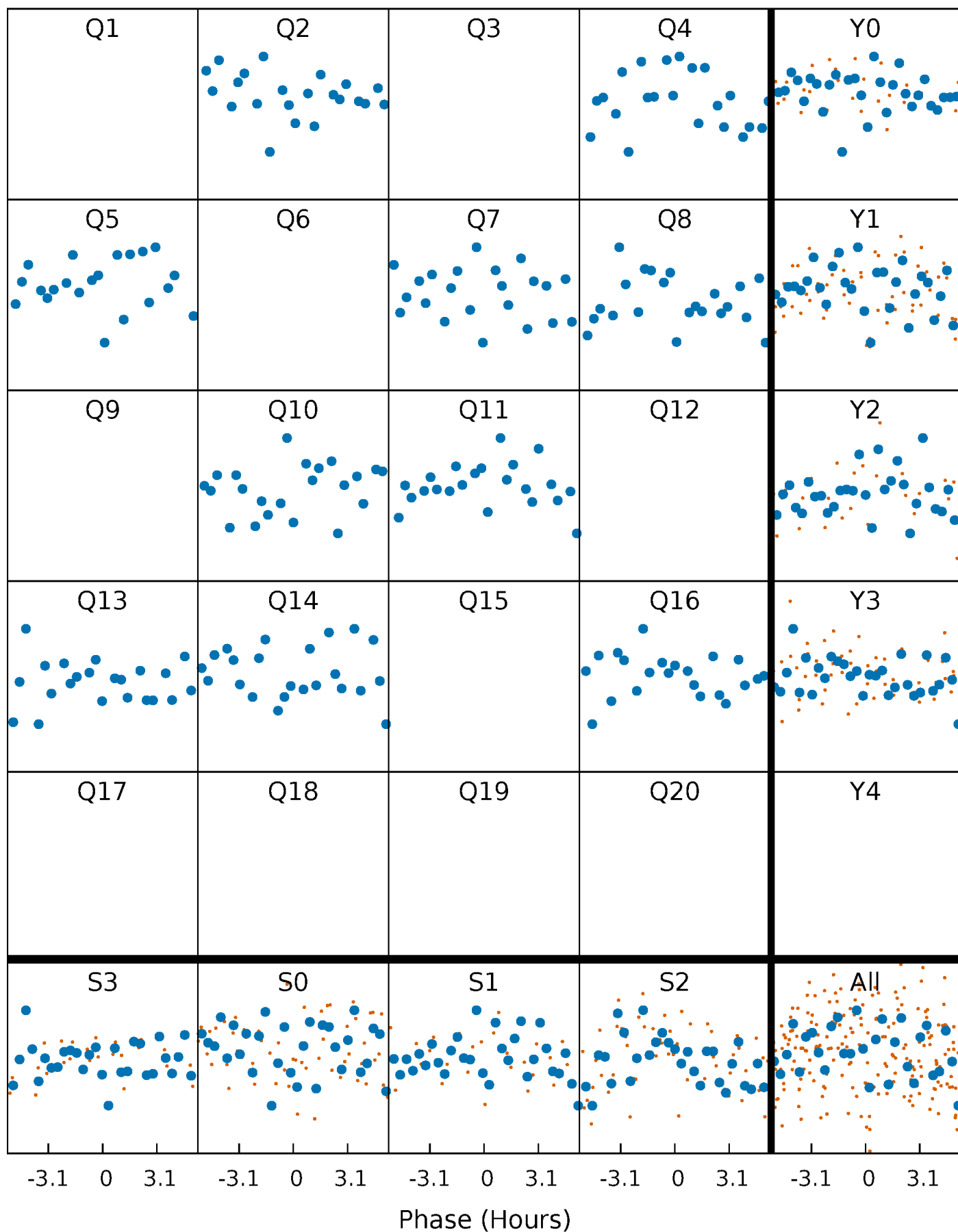


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



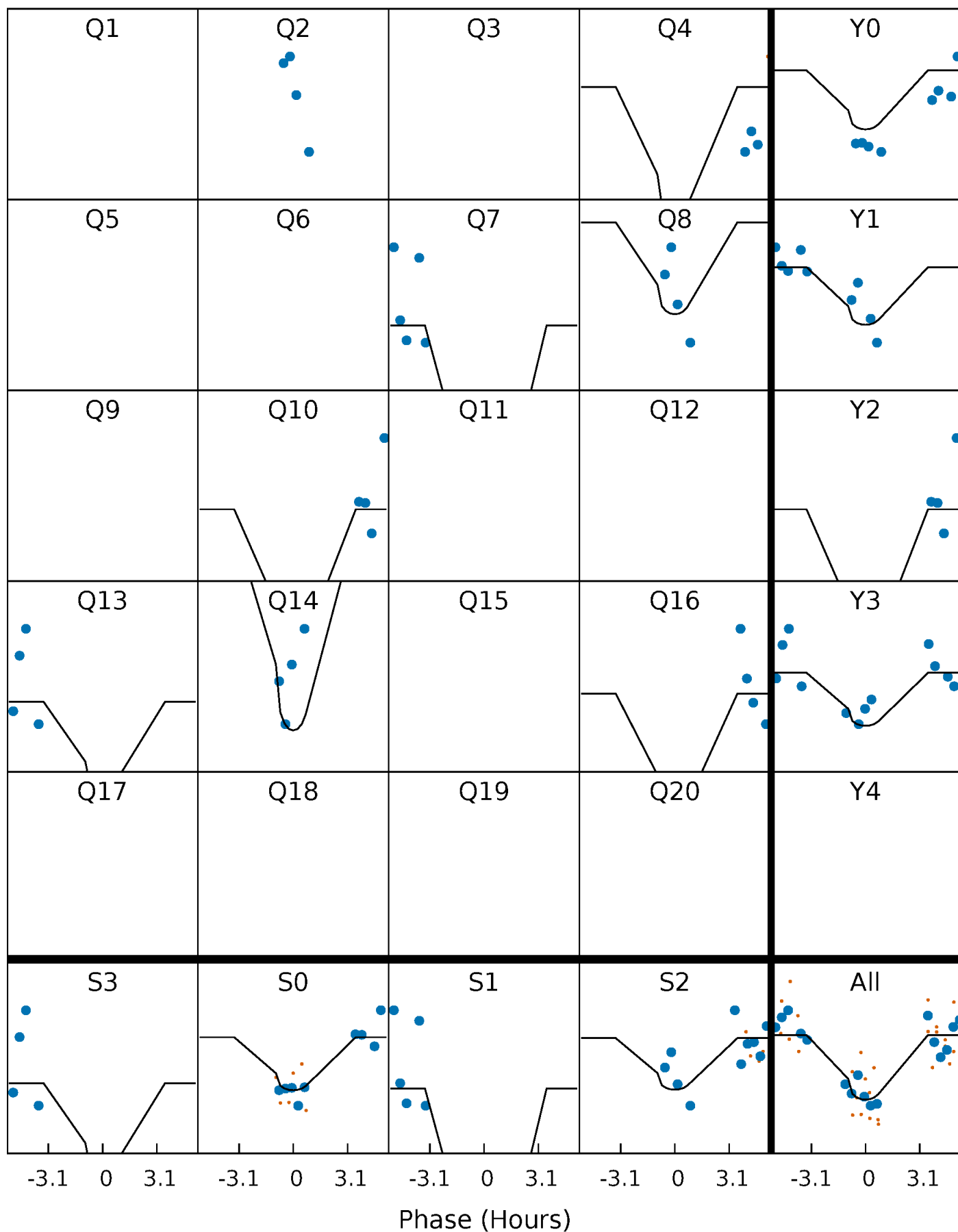
PDC Quarter-Phased Transit Curves

TCE 006635026-02 P=140.939510 Days $T_0=227.746688$ (BKJD)



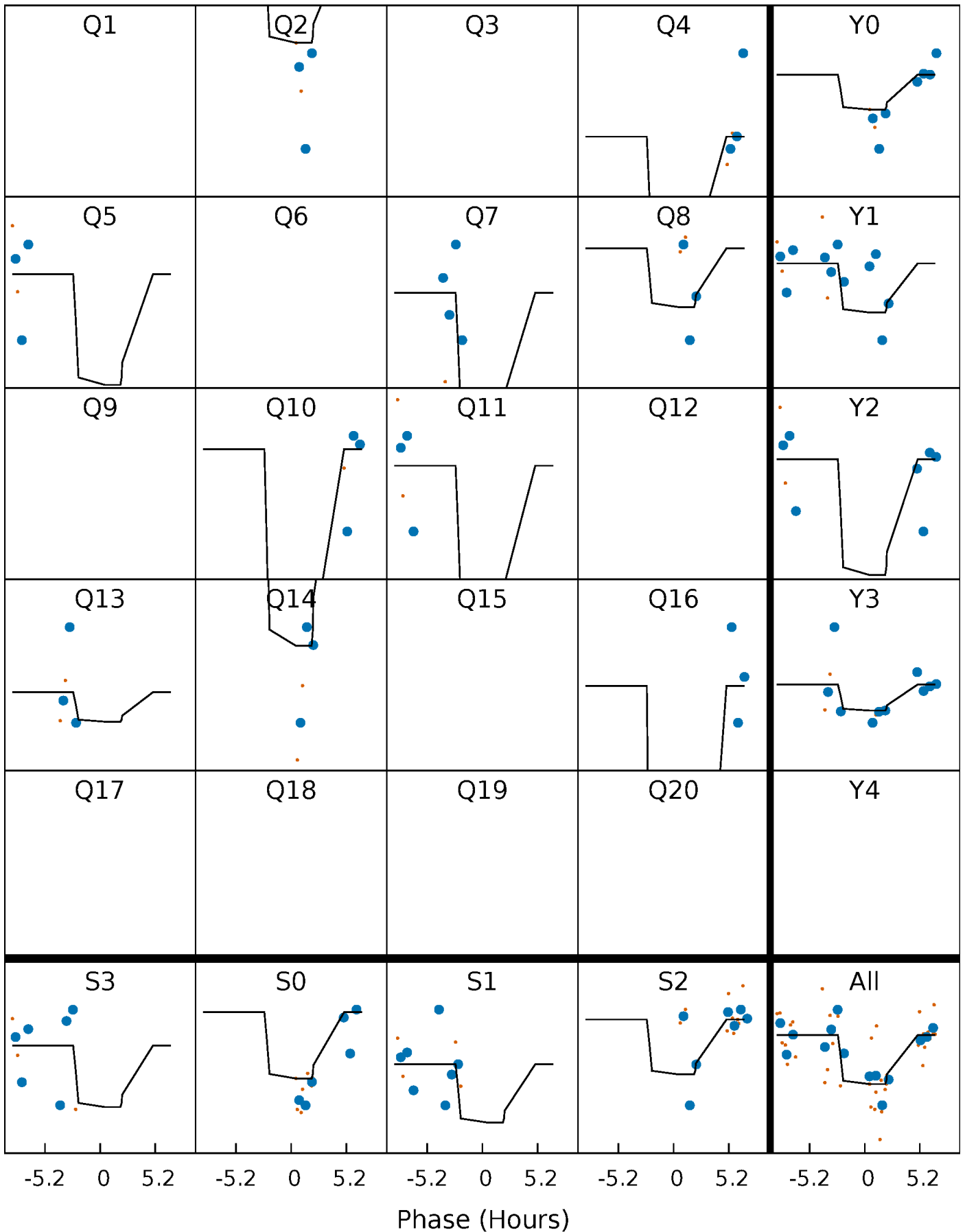
DV Quarter-Phased Transit Curves

TCE 006635026-02 P=140.939510 Days $T_0=227.746688$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

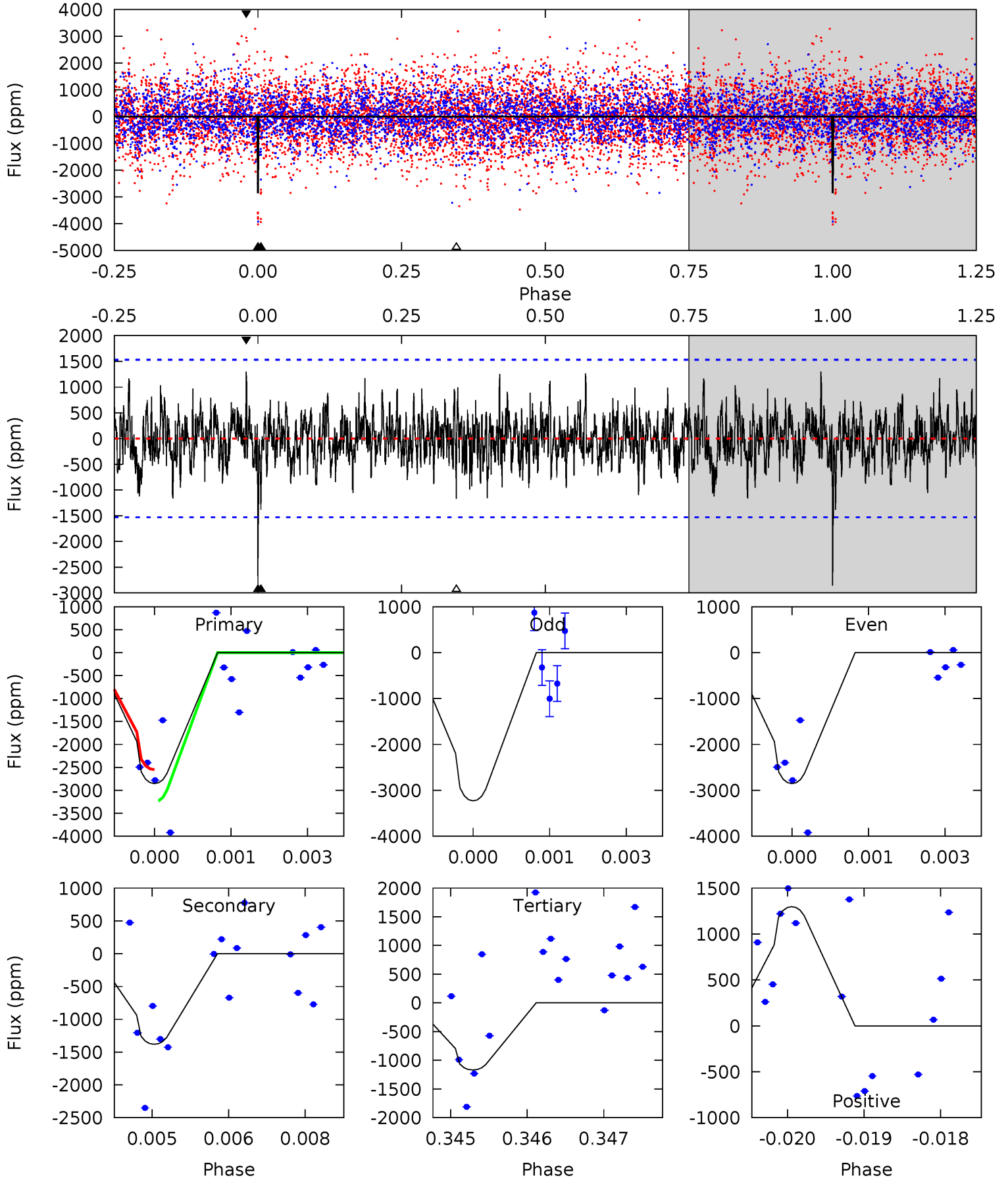
TCE 006635026-02 P=140.937574 Days $T_0=227.697131$ (BKJD)



DV Model-Shift Uniqueness Test

006635026-02, P = 140.939510 Days, E = 86.807178 Days

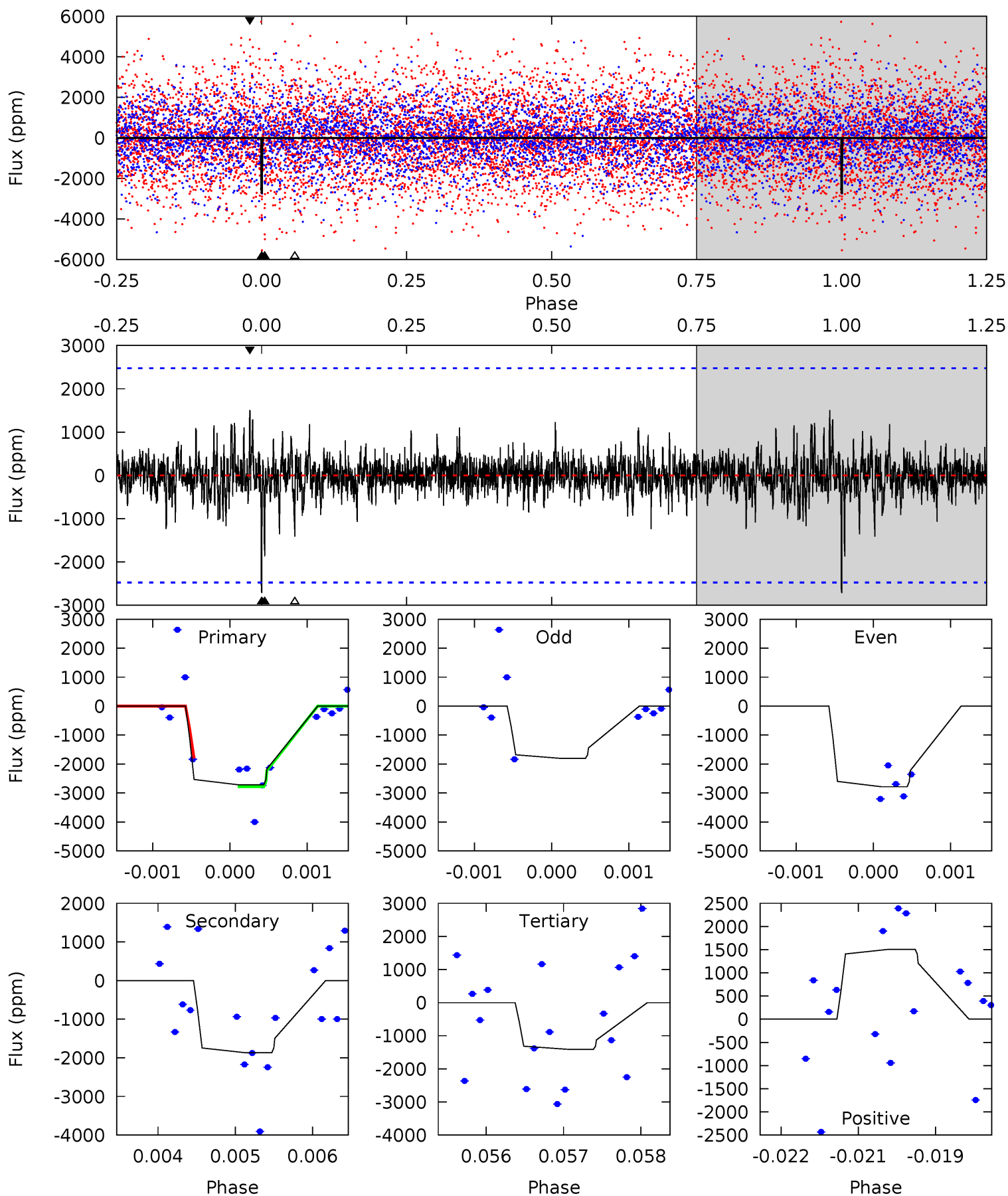
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.1	4.88	4.13	4.58	5.41	3.22	1.33	5.95	5.50	0.75	0.30	0.76	1.23	0.31	1.20



Alt Model-Shift Uniqueness Test

006635026-02, P = 140.937574 Days, E = 86.759557 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.93	4.08	3.08	3.30	5.40	3.22	0.70	2.85	2.63	1.01	0.79	0.62	0.91	0.36	0.60



Stellar Parameters For KIC 006635026

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7485^{+209}_{-340}	$3.952^{+0.260}_{-0.140}$	$-0.060^{+0.200}_{-0.400}$	$2.310^{+0.507}_{-0.760}$	$1.743^{+0.195}_{-0.363}$	$0.199^{+0.337}_{-0.084}$
	+3%/-5%	+7%/-4%	+333%/-667%	+22%/-33%	+11%/-21%	+169%/-42%
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 006635026-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1382 ± 283	$14.45^{+11.64}_{-8.78}$	864^{+65}_{-76}	5800^{+3947}_{-1306}	1464^{+8449}_{-1029}
Alt.	-1870 ± 458	$14.39^{+12.11}_{-8.83}$	869^{+59}_{-75}	6163^{+5233}_{-1430}	1923^{+11483}_{-1391}

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

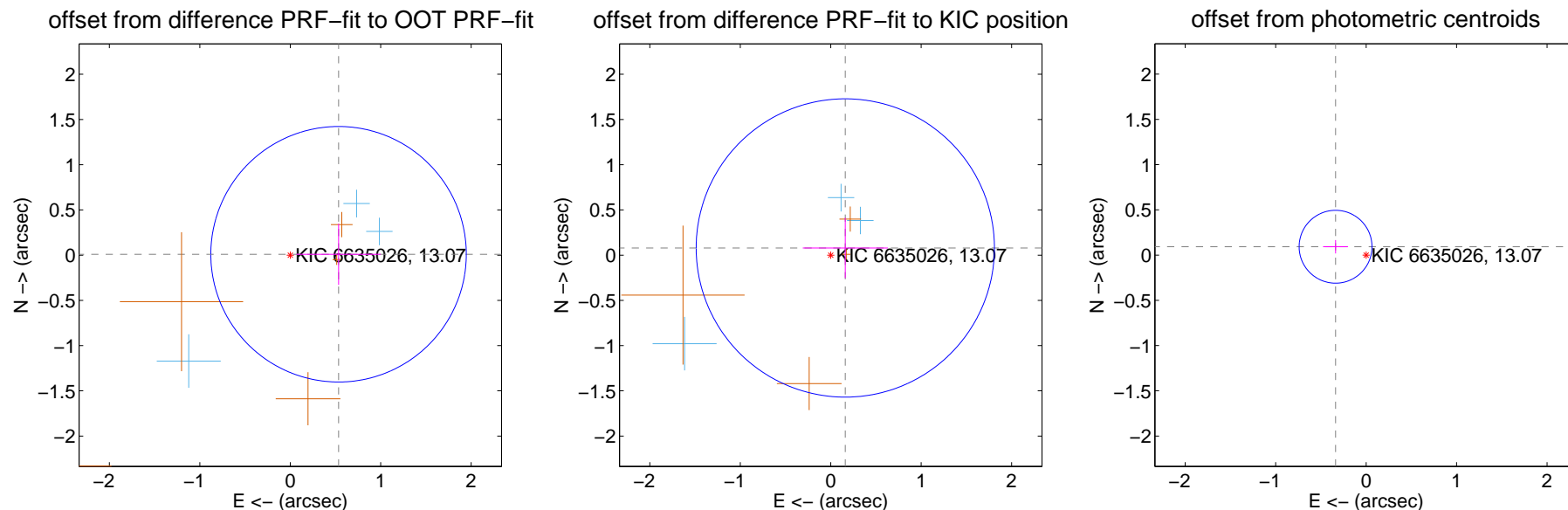
DV Centroid Data

Supplemental centroid analysis for 006635026-02. Kepler magnitude: 13.07. Transit SNR 14.48

There are 3 quarters with good PRF difference image offsets

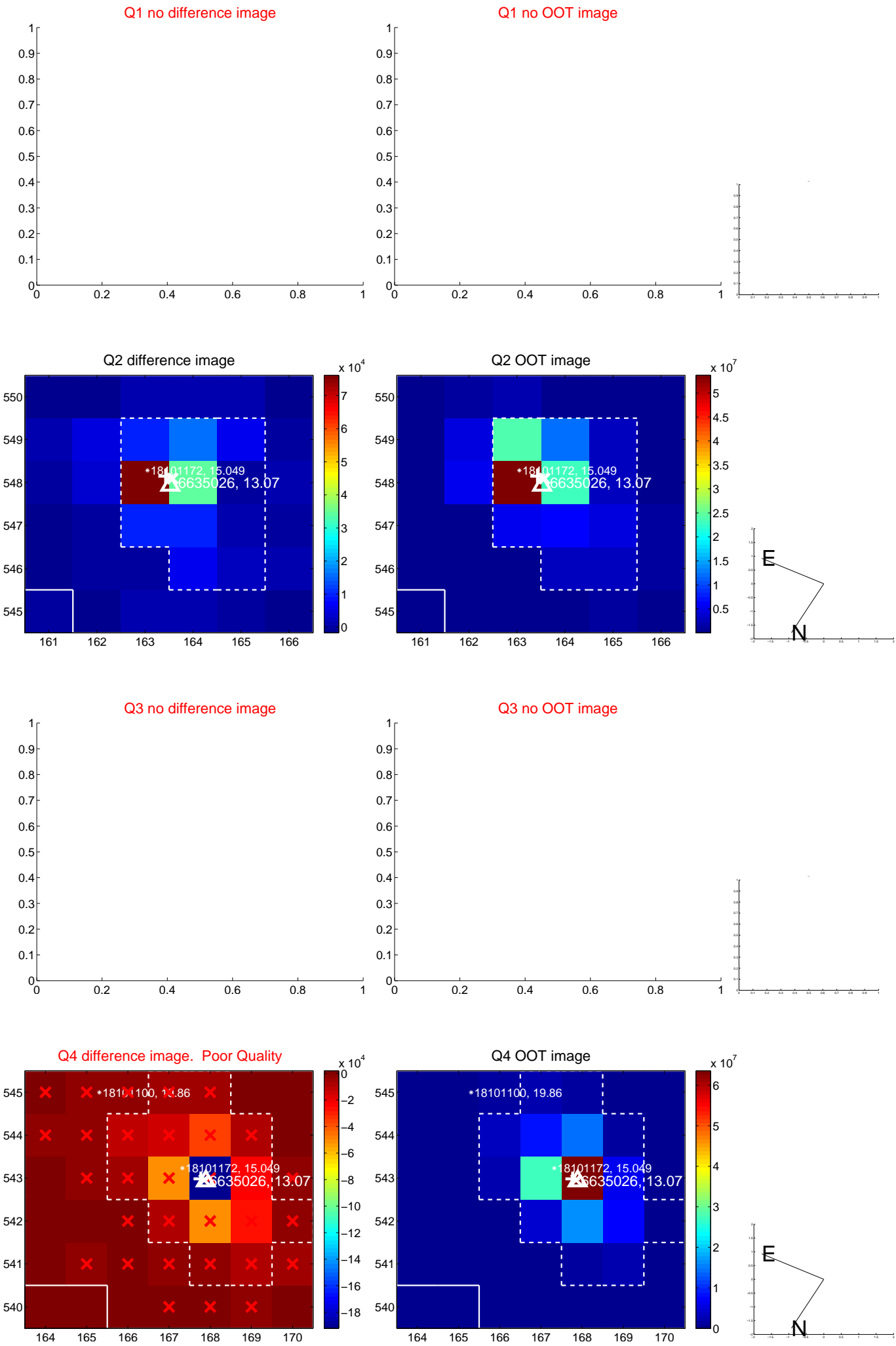
The direct PRF centroid is offset from the target star catalog position by about 0.36 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.534 ± 0.471	1.13	-0.534 ± 0.466	0.010 ± 0.339
PRF-fit source offset from KIC position	0.180 ± 0.550	0.33	-0.161 ± 0.470	0.079 ± 0.333
photometric centroid source offset	0.35 ± 0.13	2.61	0.34 ± 0.14	0.09 ± 0.07

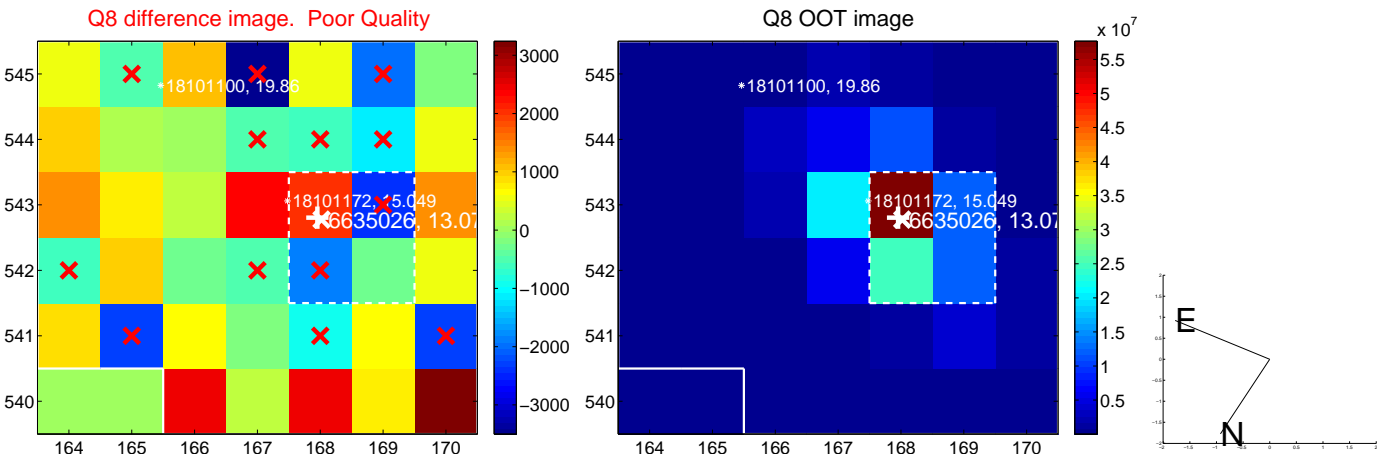
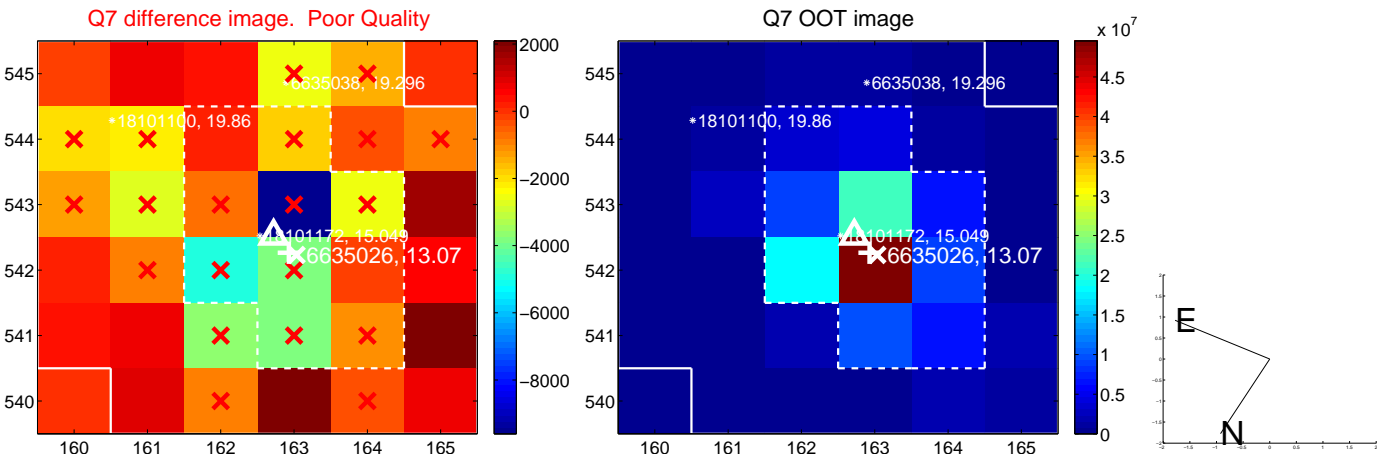
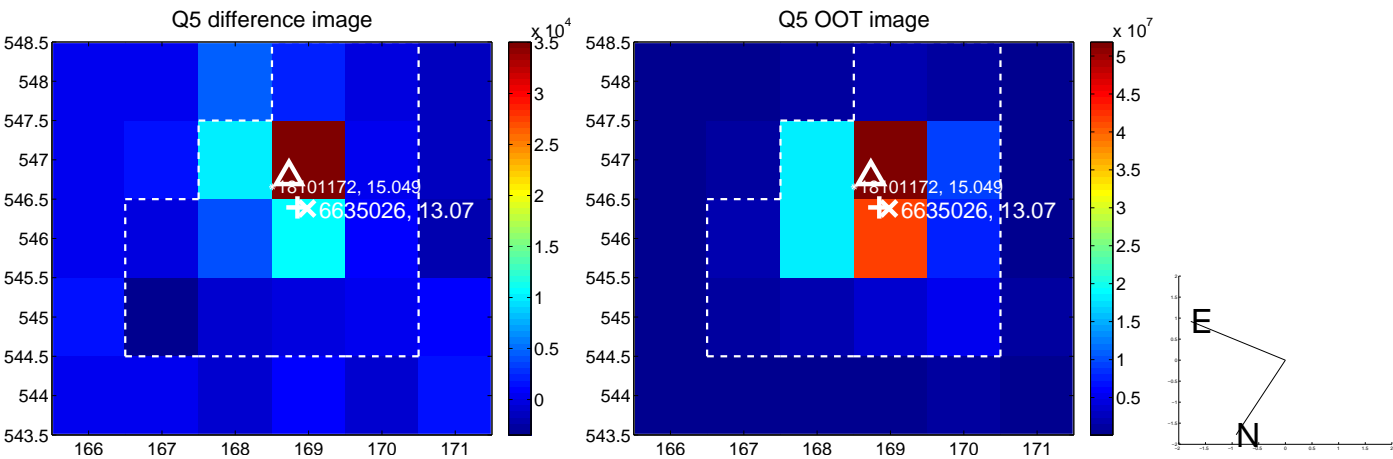


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

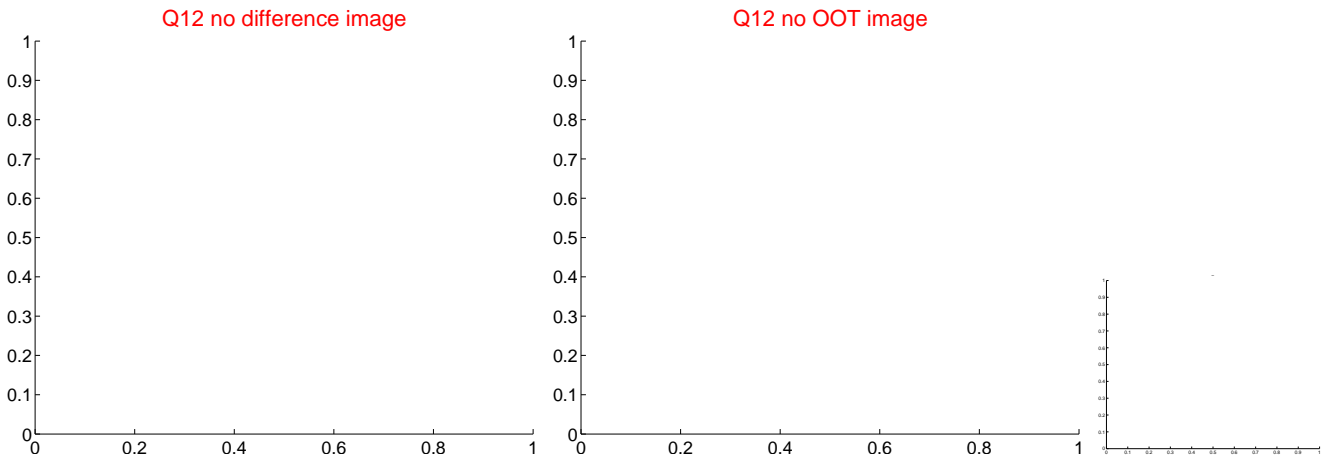
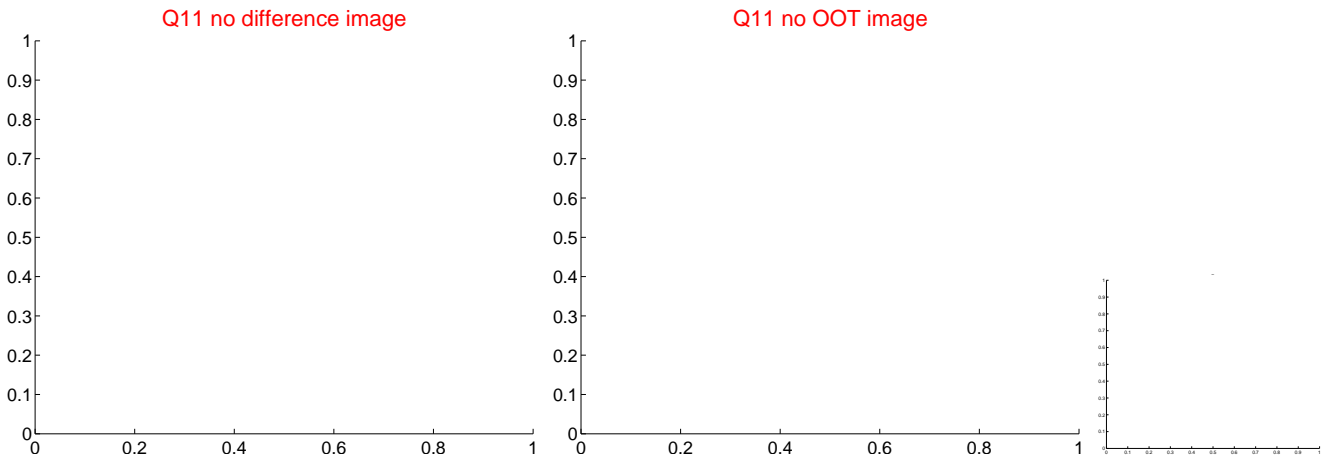
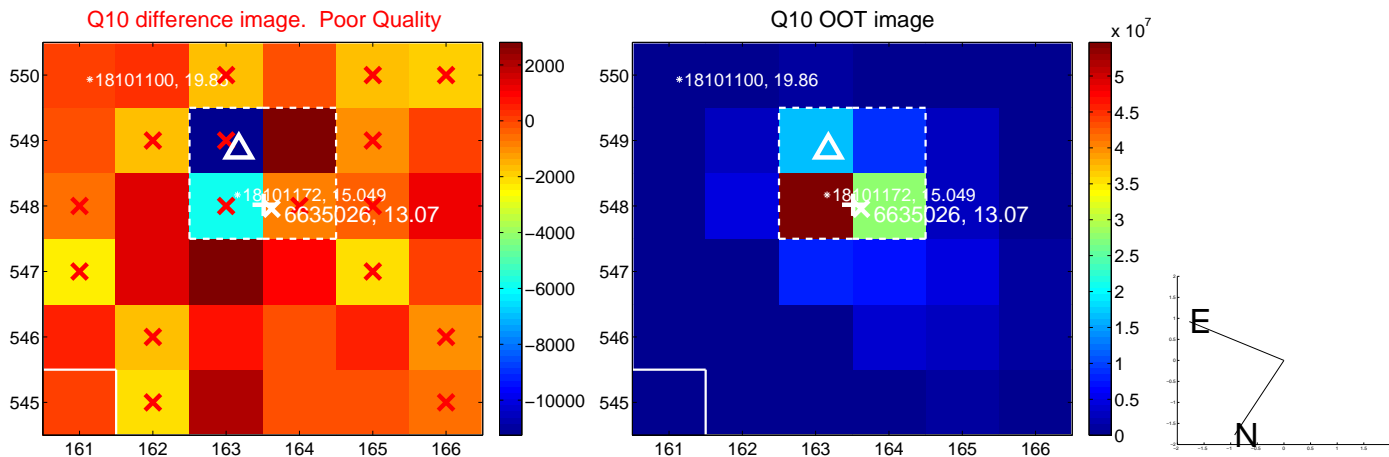
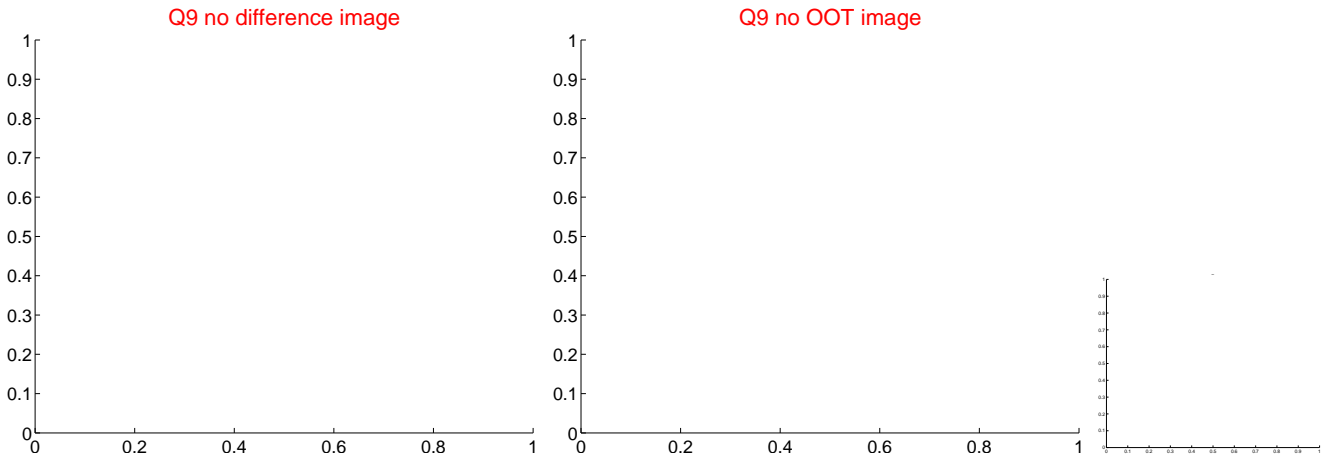
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



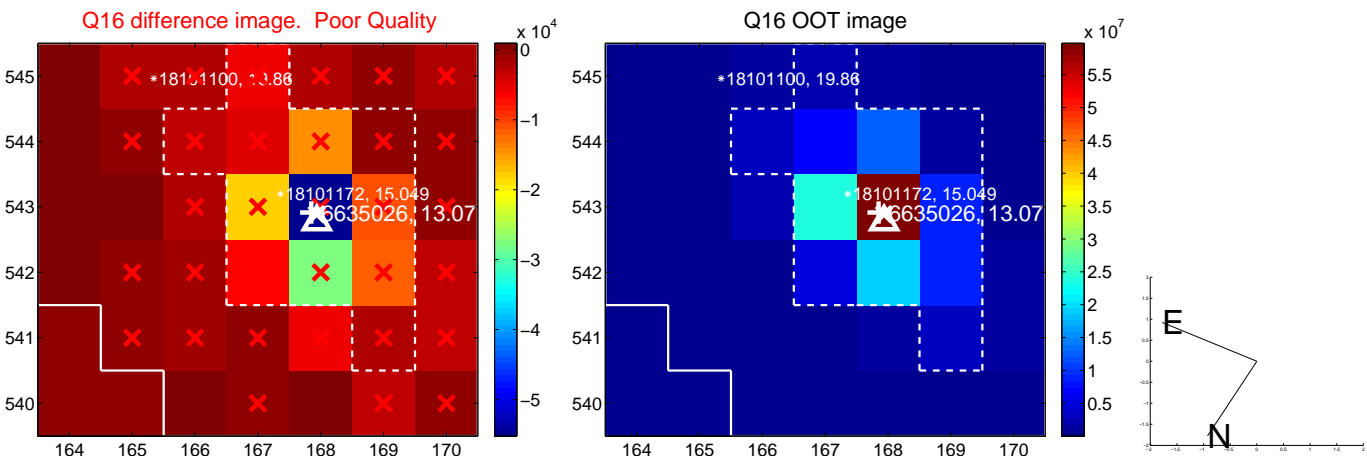
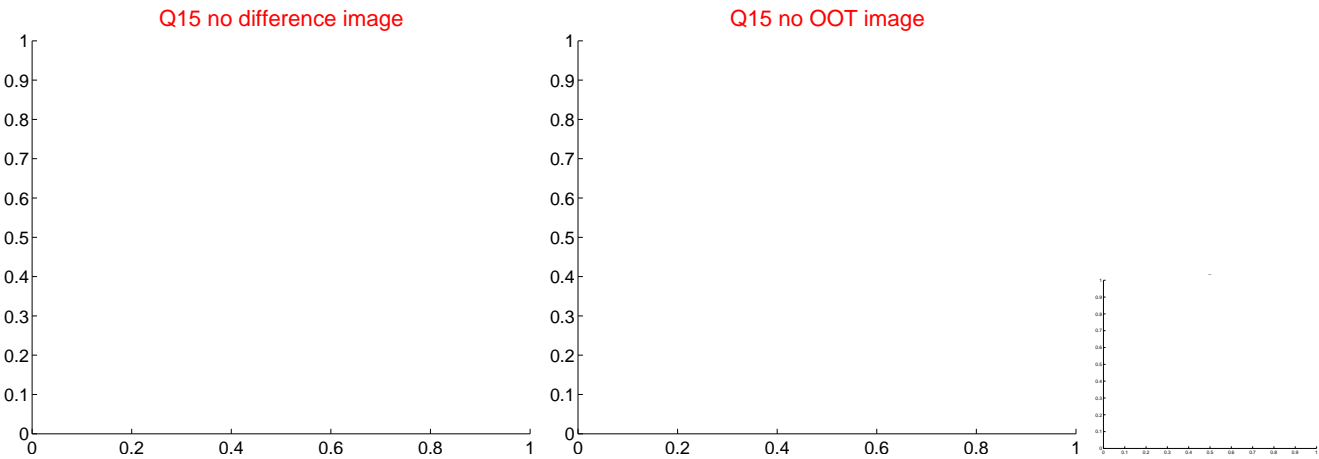
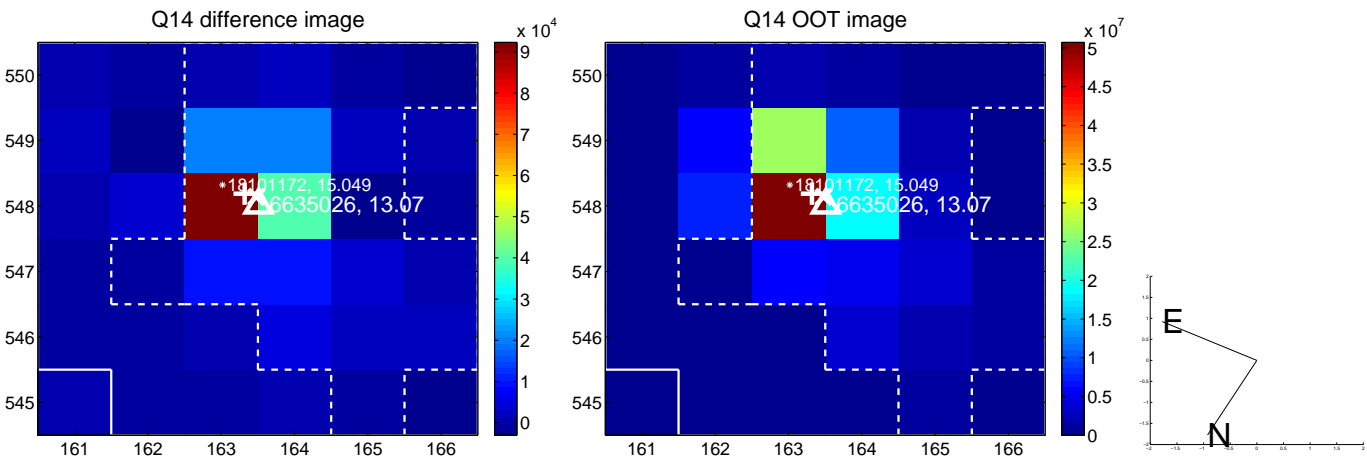
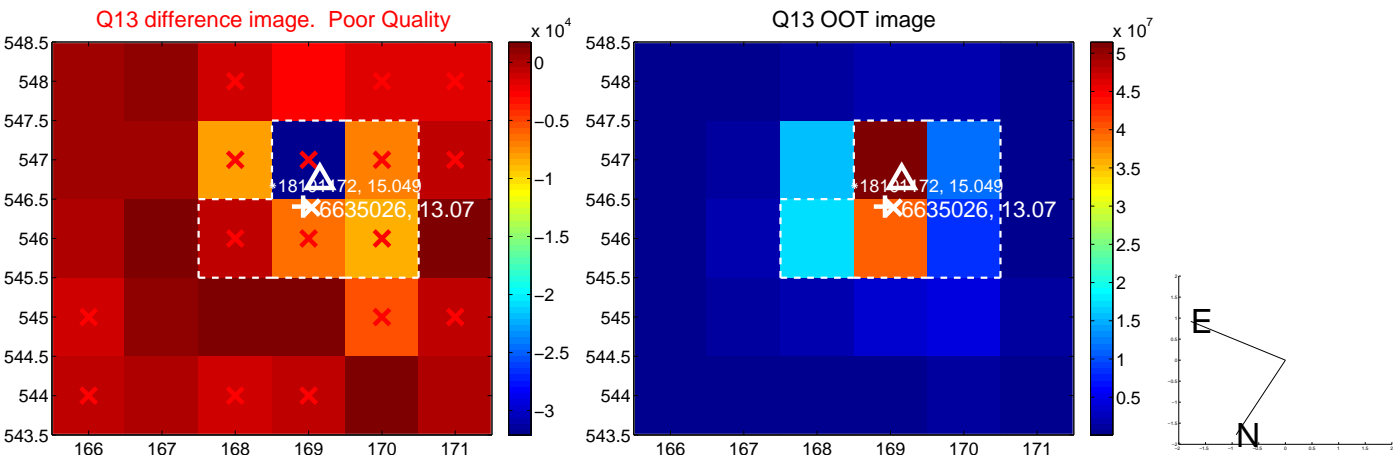
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



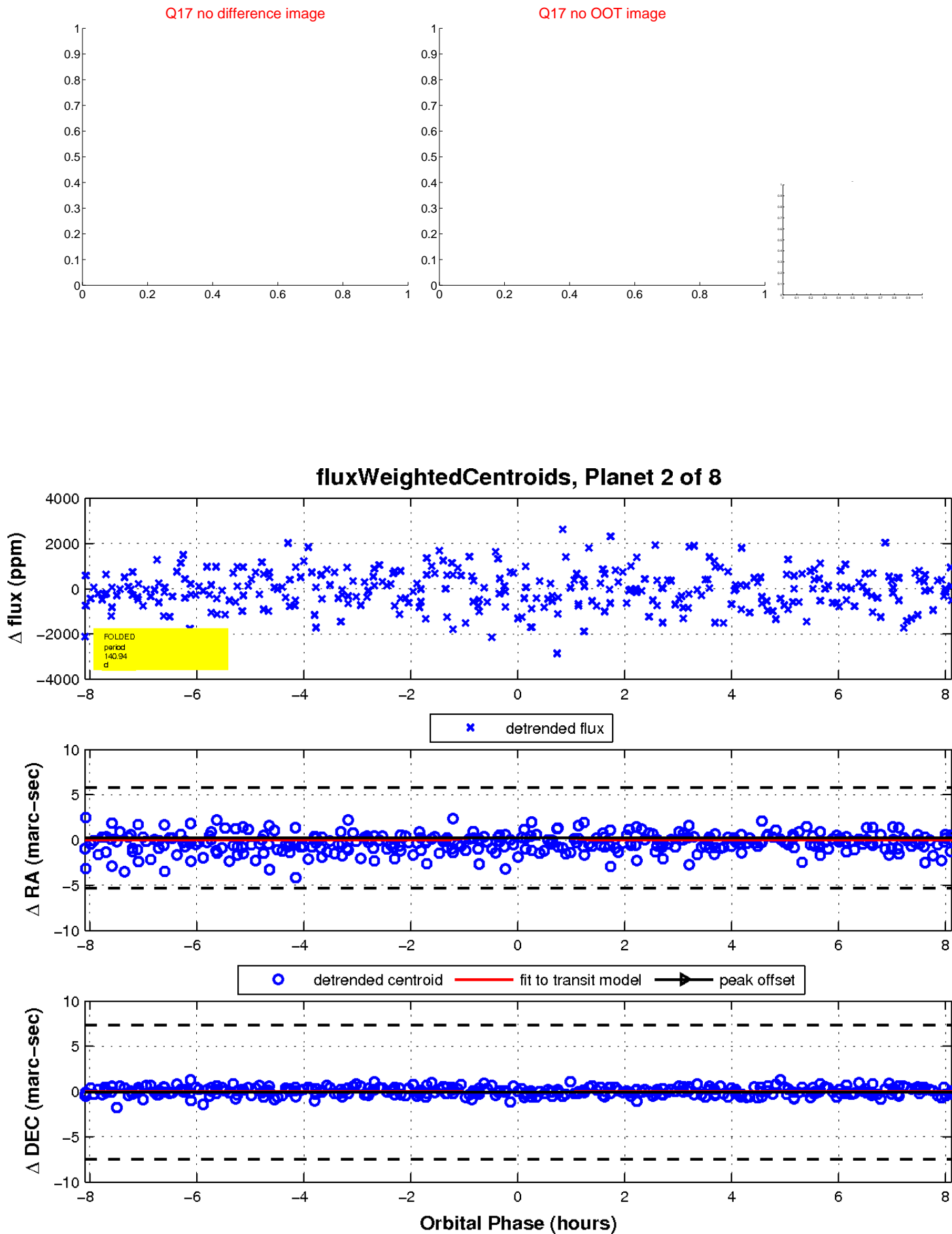
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

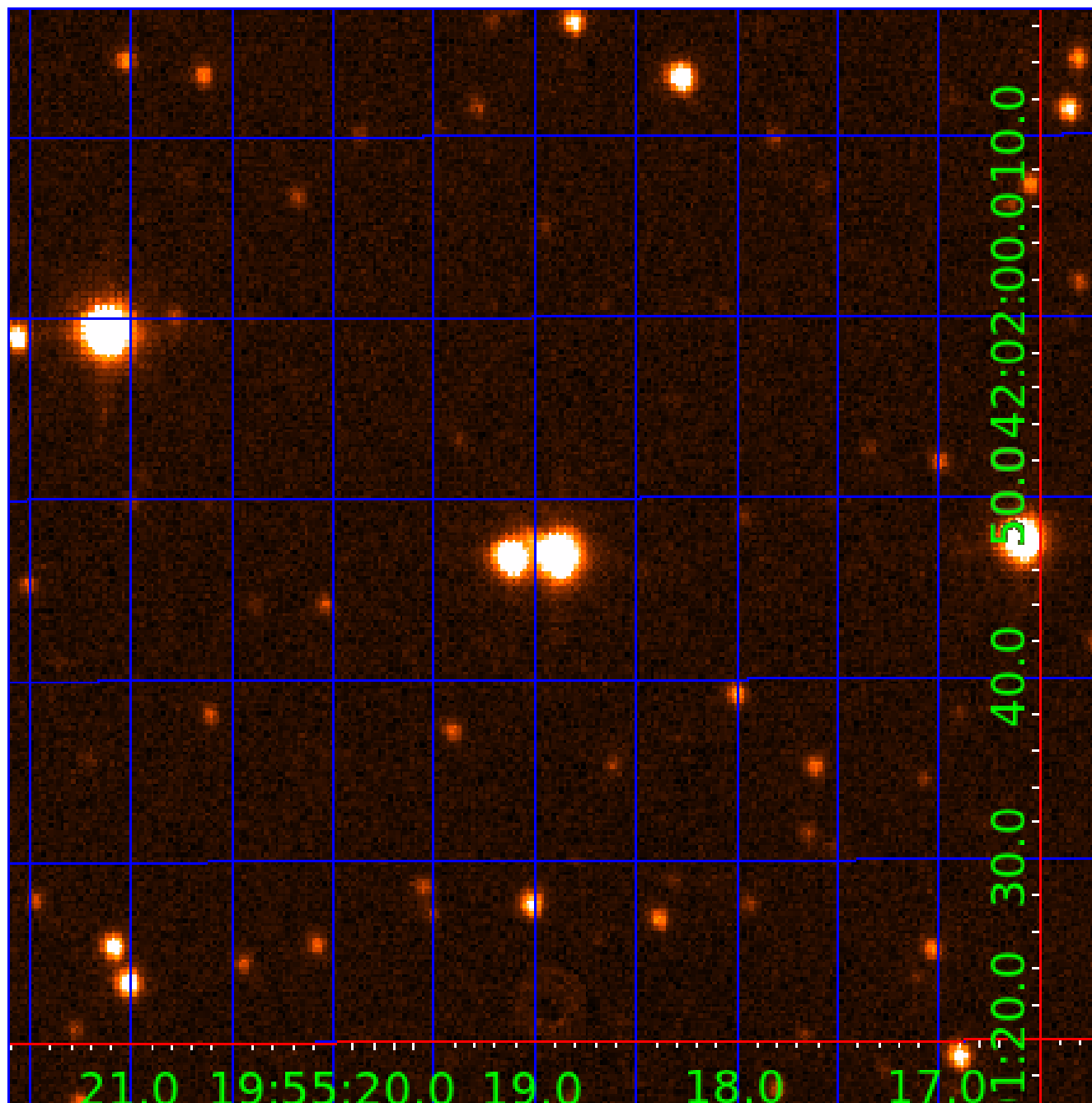


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006635026

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})
006635026-01	OBS	No	0.723688	131.859976	109.1	4.950	17.4	11.8	2.31	7485	2.47	41623.07
006635026-02	OBS	No	140.939510	227.746688	2913.0	2.723	15.6	14.5	2.31	7485	13.93	36.87
006635026-03	OBS	No	38.428035	143.056910	1806.0	4.305	12.5	13.9	2.31	7485	11.32	208.55
006635026-04	OBS	No	60.219450	138.742859	2649.4	1.049	13.6	11.5	2.31	7485	12.25	114.57
006635026-05	OBS	No	26.980444	145.913094	1970.5	1.300	11.3	11.5	2.31	7485	10.74	334.20
006635026-06	OBS	No	36.206055	155.848699	1444.1	3.245	9.8	9.4	2.31	7485	13.34	225.78
006635026-07	OBS	No	135.464597	151.815020	1424.1	8.019	9.2	9.7	2.31	7485	9.36	38.87
006635026-08	OBS	No	80.986429	157.236489	1366.0	11.106	9.4	8.6	2.31	7485	8.86	77.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006635026-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_KIC_POS
006635026-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
006635026-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_KIC_POS
006635026-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

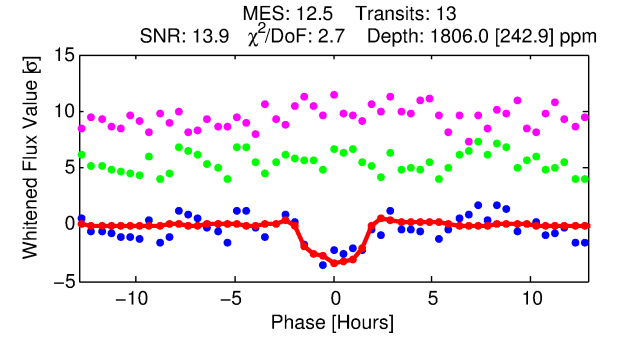
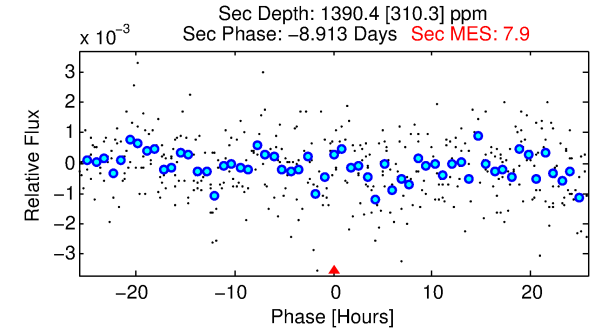
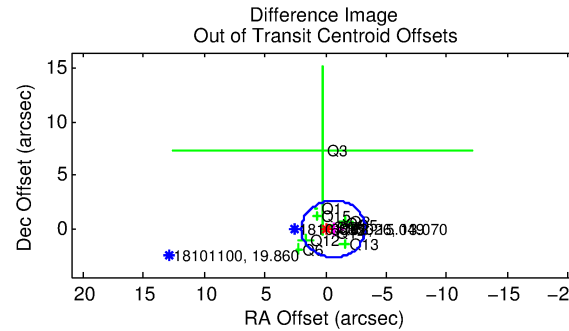
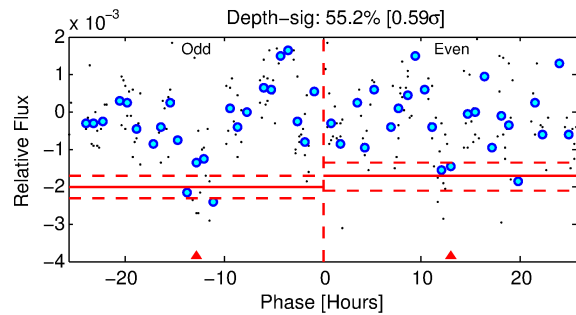
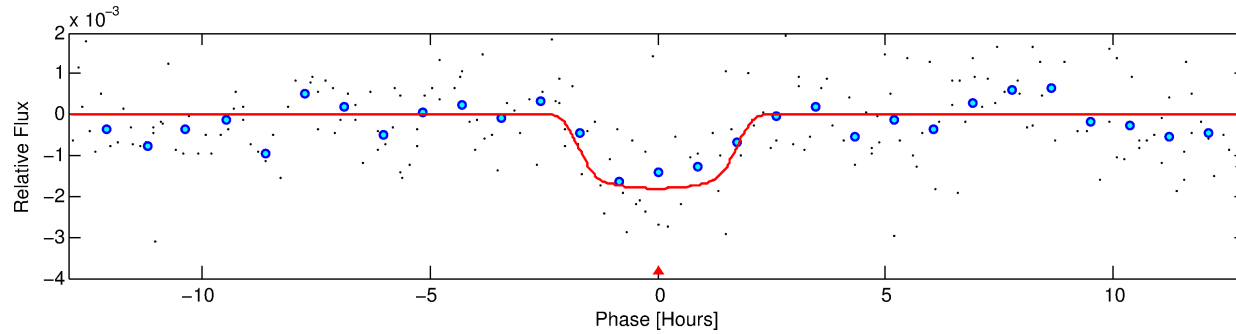
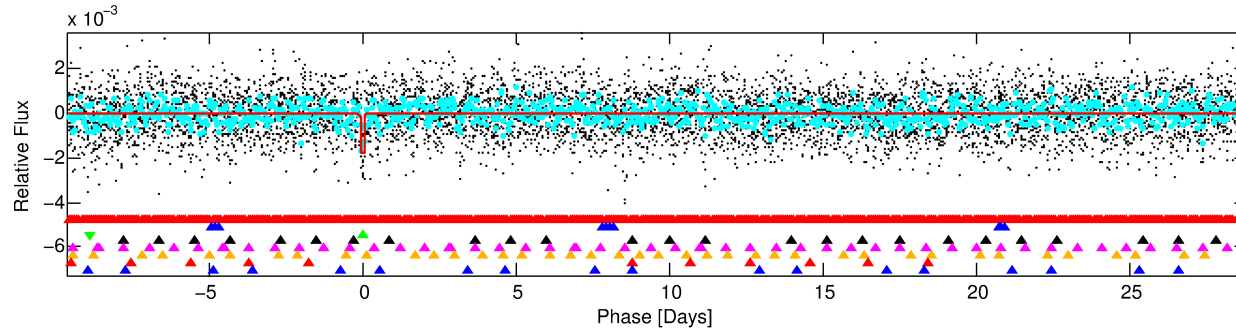
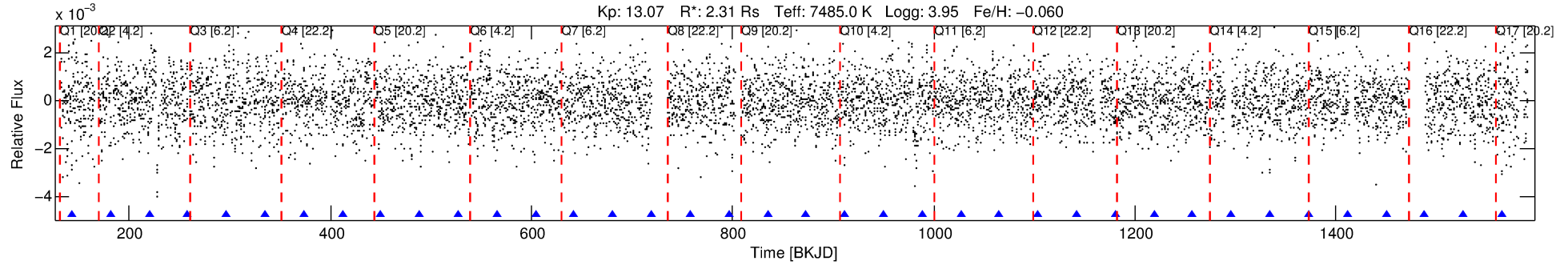
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006635026-03

No Significant Match Found

DV One-Page Summary

KIC: 6635026 Candidate: 3 of 8 Period: 38.428 d



DV Fit Results:

Period = 38.42803 [0.00054] d
Epoch = 143.0569 [0.0101] BKJD
Rp/R* = 0.0449 [0.0053]
a/R* = 36.97 [17.88]
b = 0.89 [0.11]
Seff = 208.55 [102.26]
Teq = 969 [119] K
Rp = 11.32 [3.95] Re
a = 0.2682 [0.0795] AU
Ag = 429.27 [239.80] [1.79 σ]
Teffp = 6819 [633] K [9.09 σ]

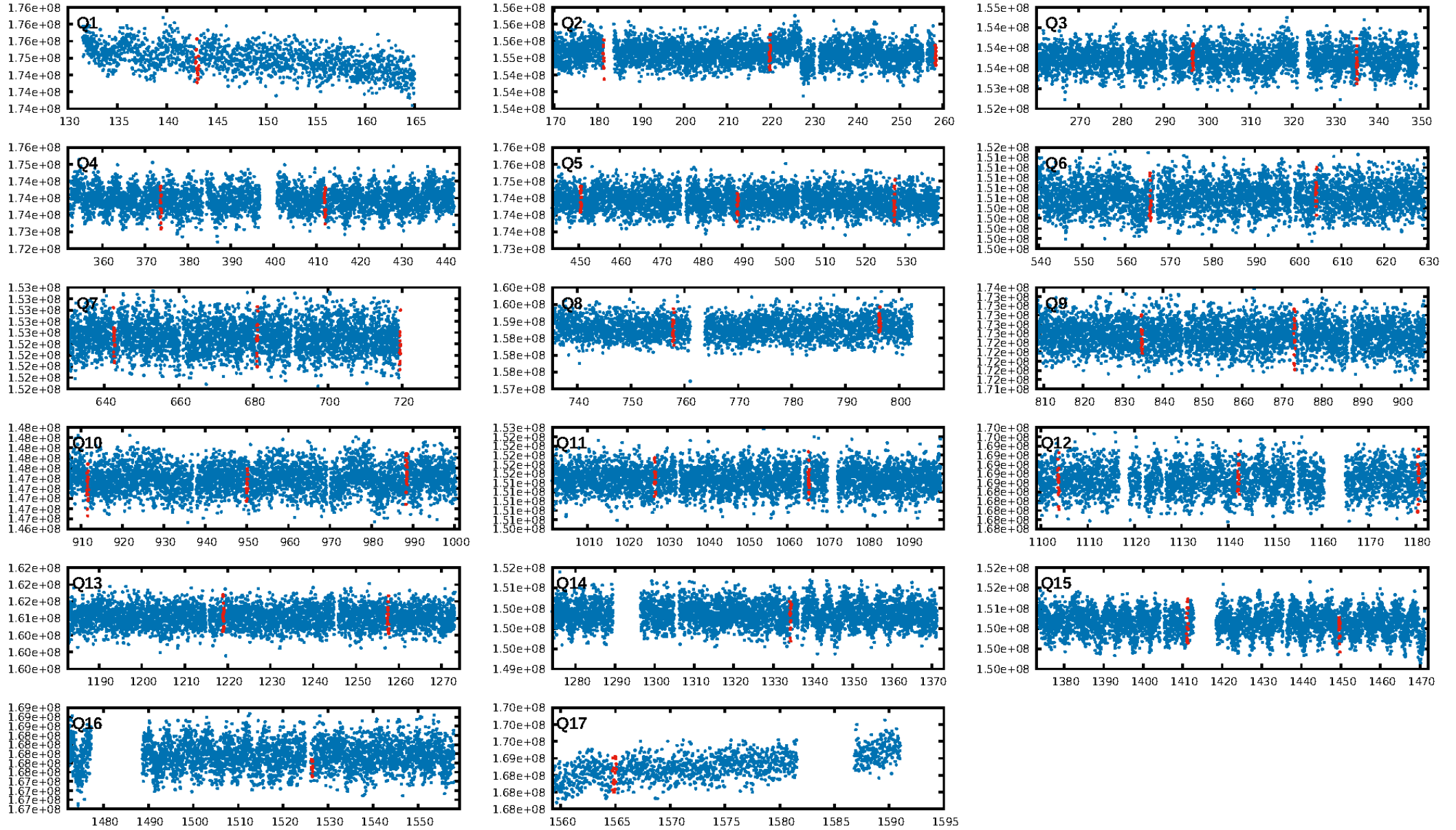
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [9.89 σ]
LongPeriod-sig: 100.0% [118.03 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 99.5%
Bootstrap-pfa: 2.12e-11
RollingBand-fgt: 1.00 [12/12]
GhostDiagnostic-chr: -1.018
Centroid-sig: 0.0%
Centroid-so: 0.258 arcsec [2.35 σ]
OotOffset-rm: 0.638 arcsec [0.72 σ]
OotOffset-st: 3/3/3/5 [14]
KicOffset-rm: 0.229 arcsec [0.29 σ]
KicOffset-st: 3/3/3/5 [14]
DiffImageQuality-fgm: 0.64 [9/14]
DiffImageOverlap-fno: 0.00 [0/15]

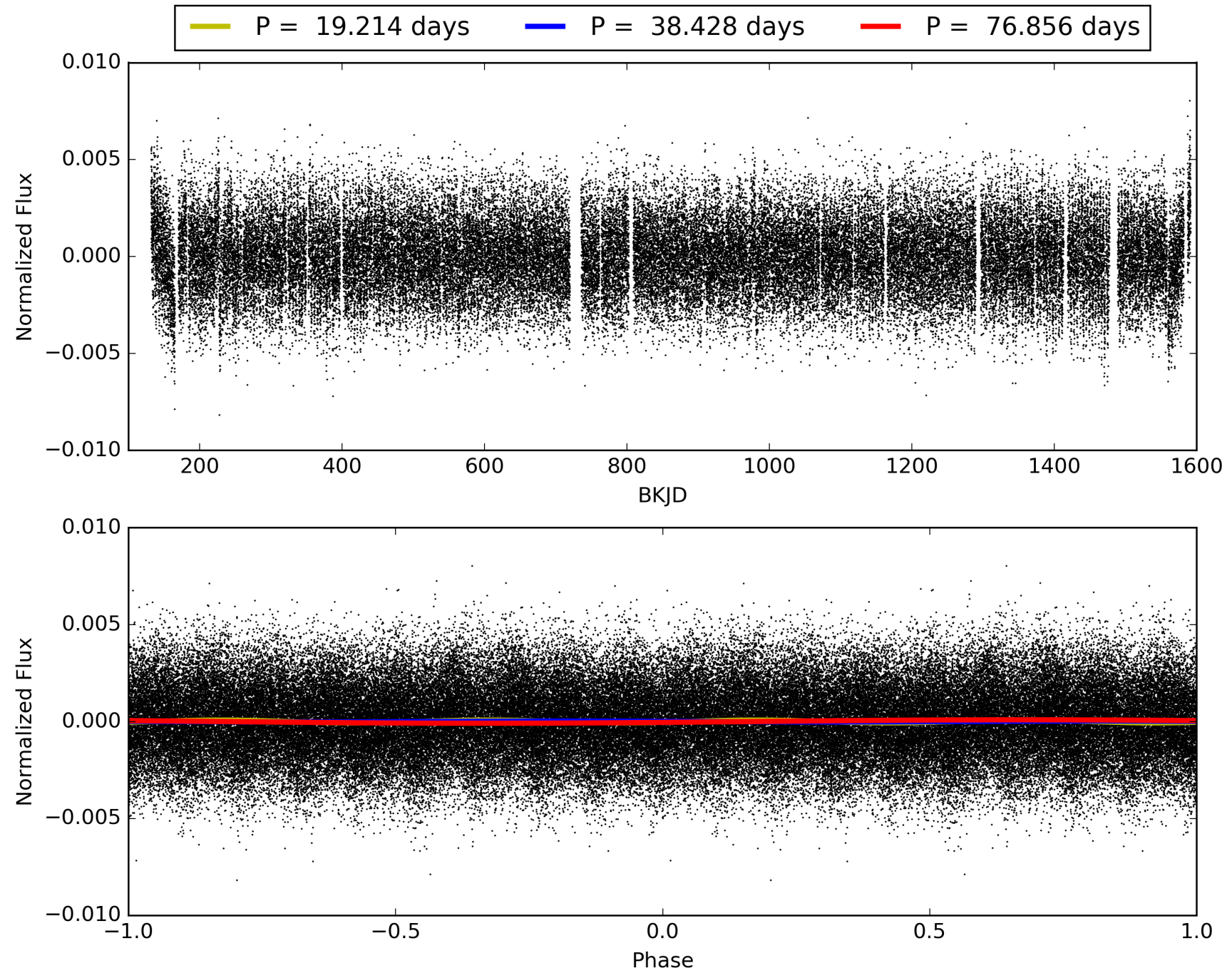
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:19:45 Z

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

TCE 006635026-03, PDC Light Curves

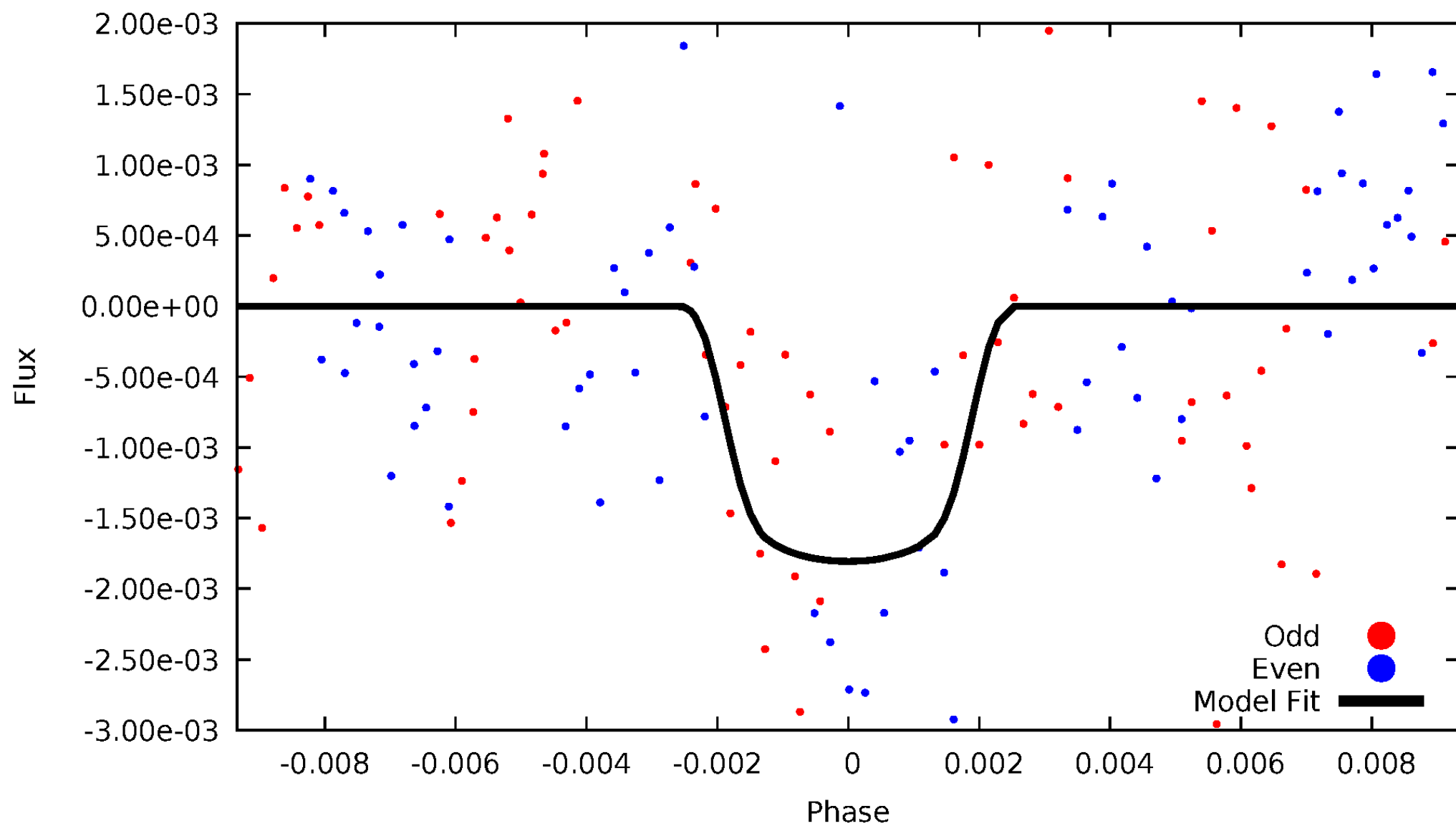


TCE 006635026-03



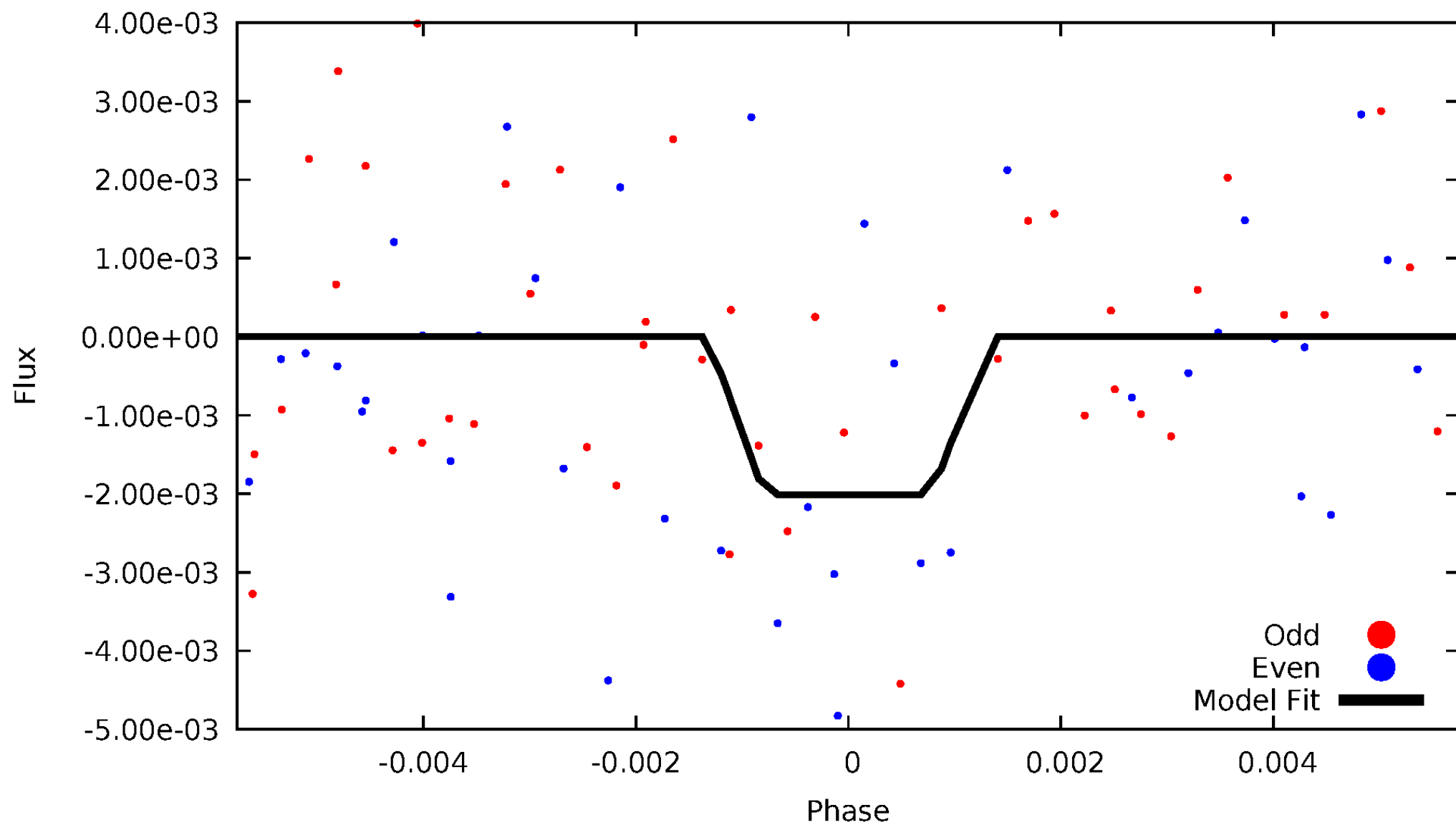
DV Odd/Even

TCE 006635026-03



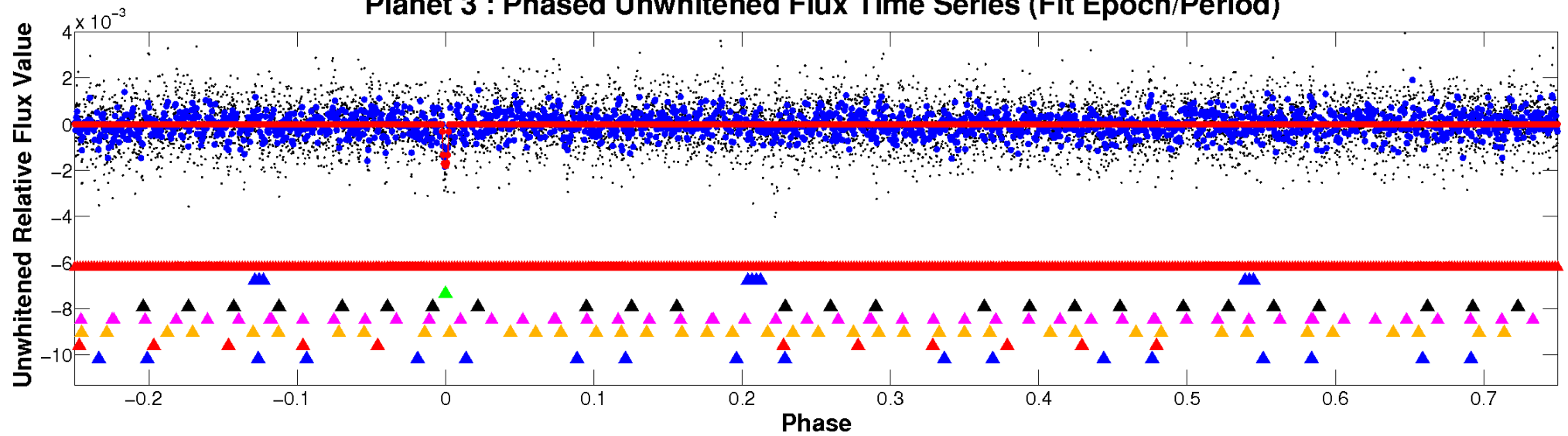
ALT Odd/Even

TCE 006635026-03

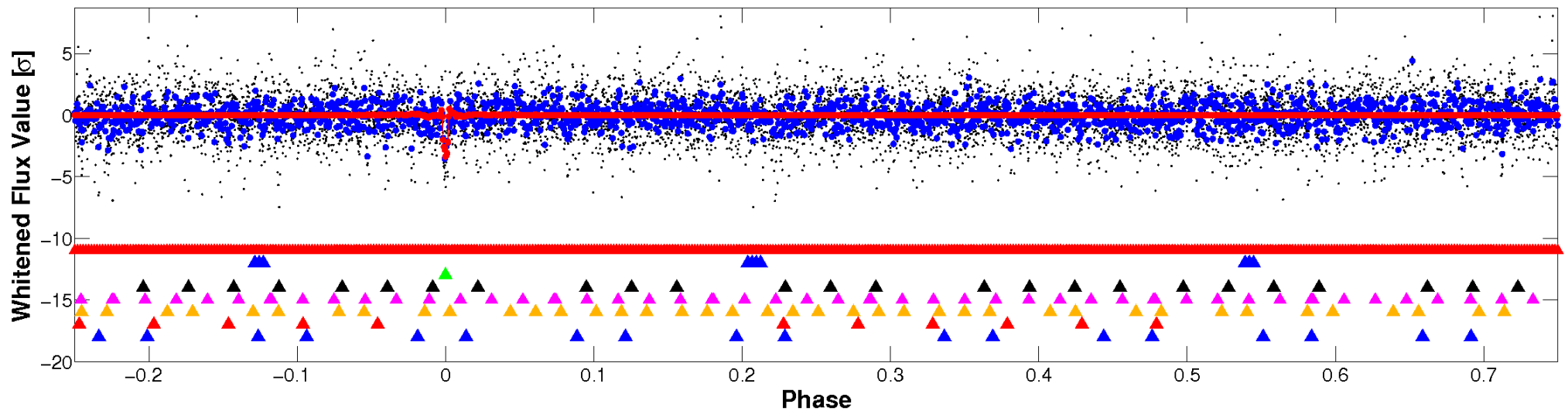


Non-Whitened Vs. Whitened Light Curve

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

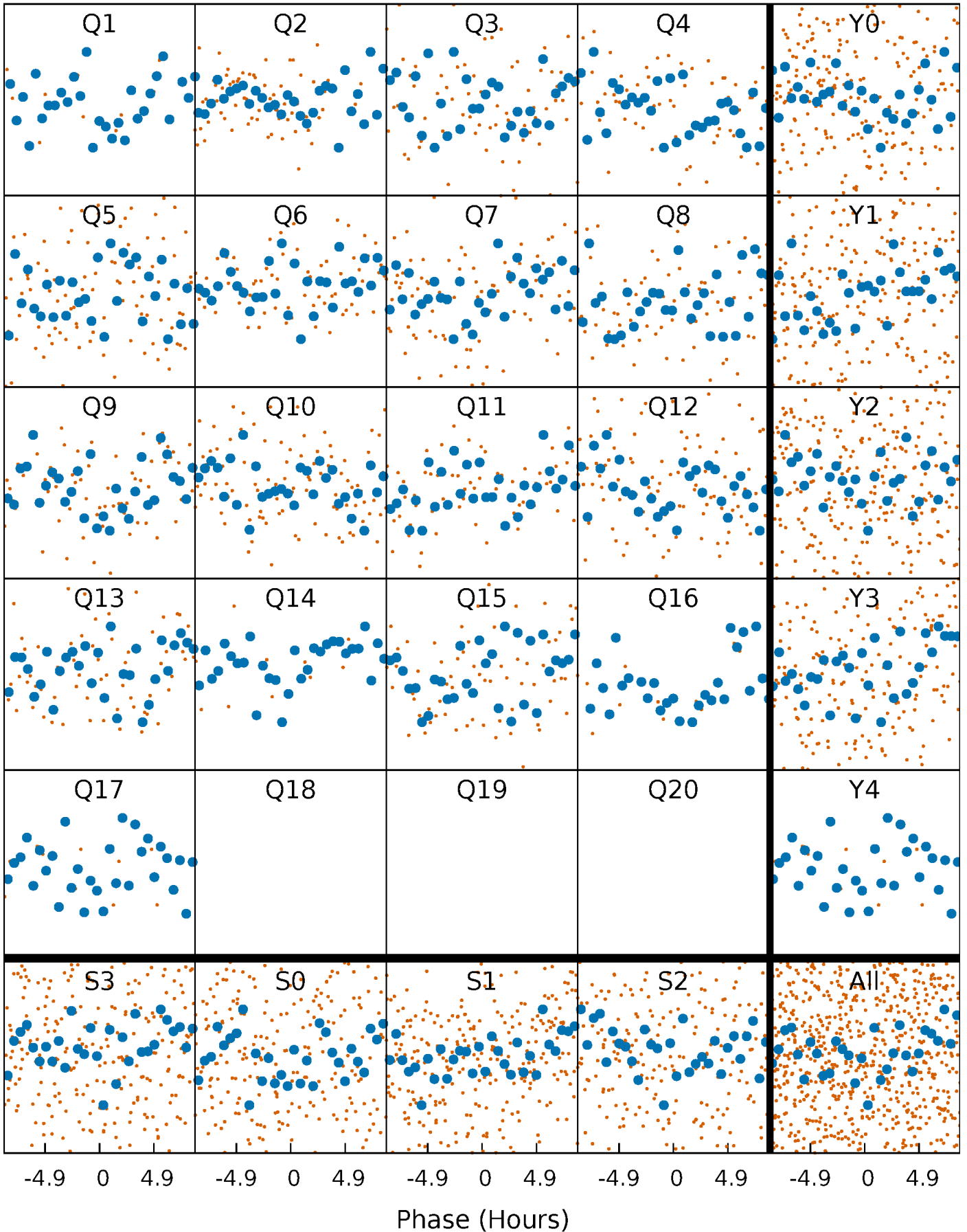


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



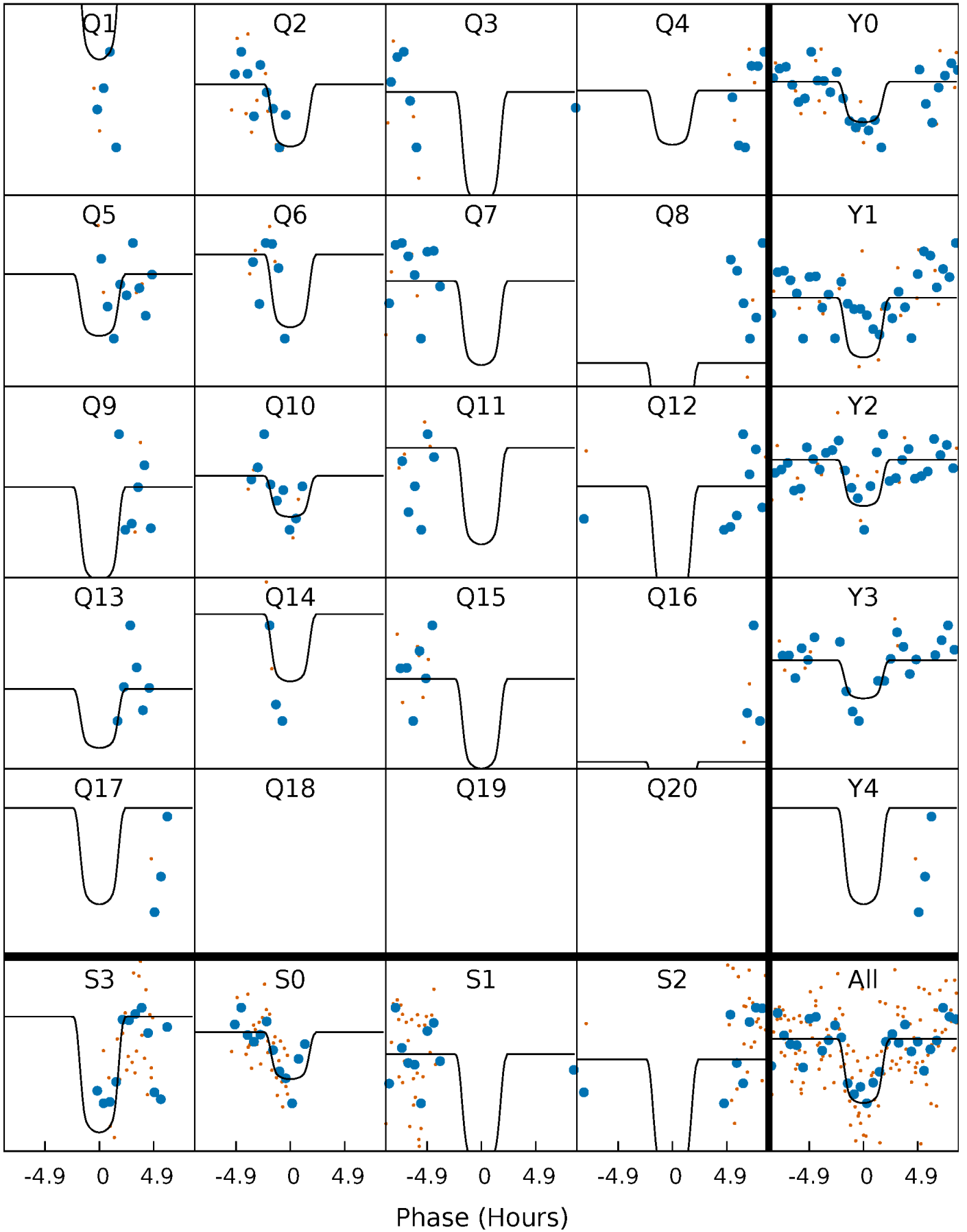
PDC Quarter-Phased Transit Curves

TCE 006635026-03 P= 38.428035 Days $T_0=143.056910$ (BKJD)



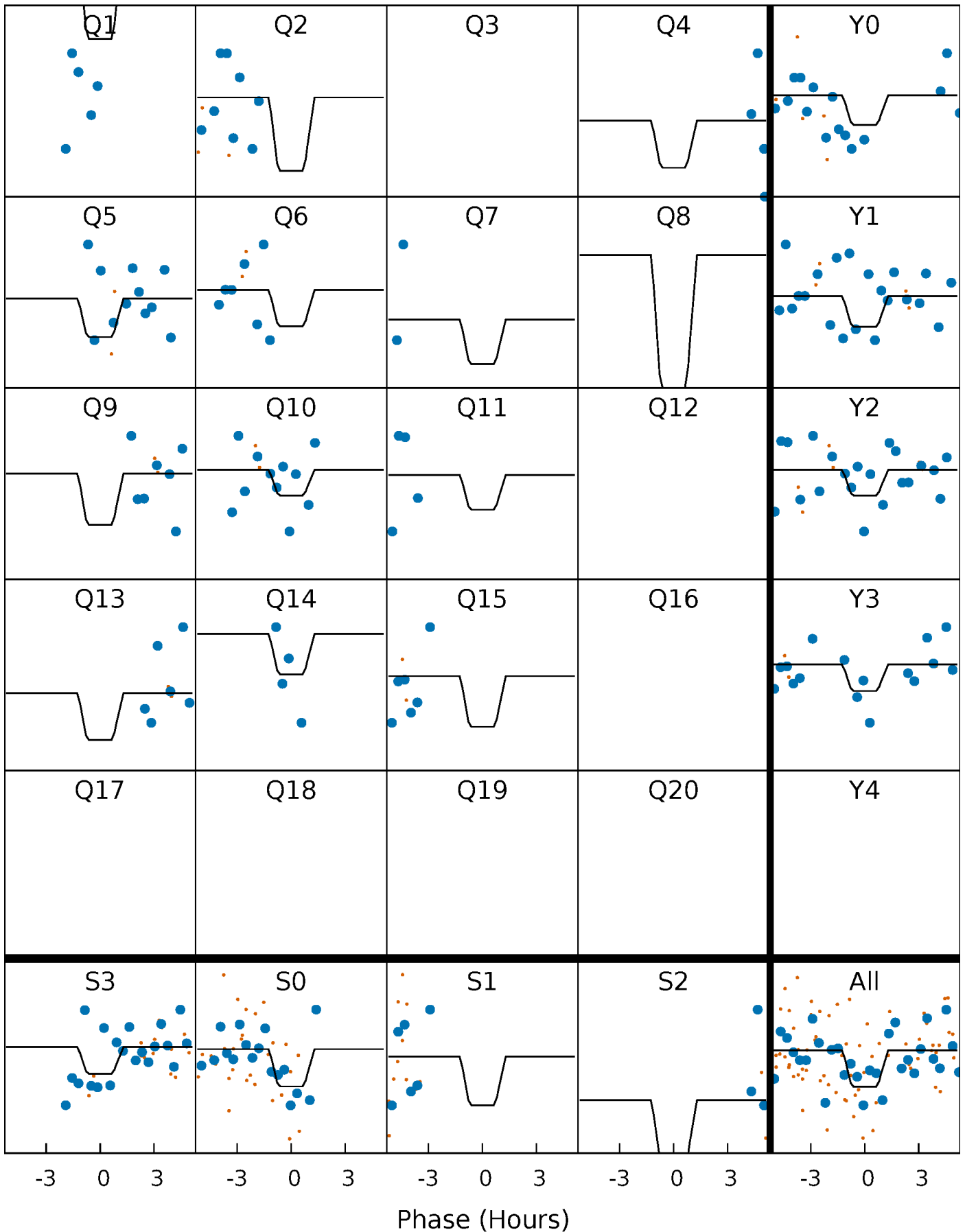
DV Quarter-Phased Transit Curves

TCE 006635026-03 P= 38.428035 Days $T_0=143.056910$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

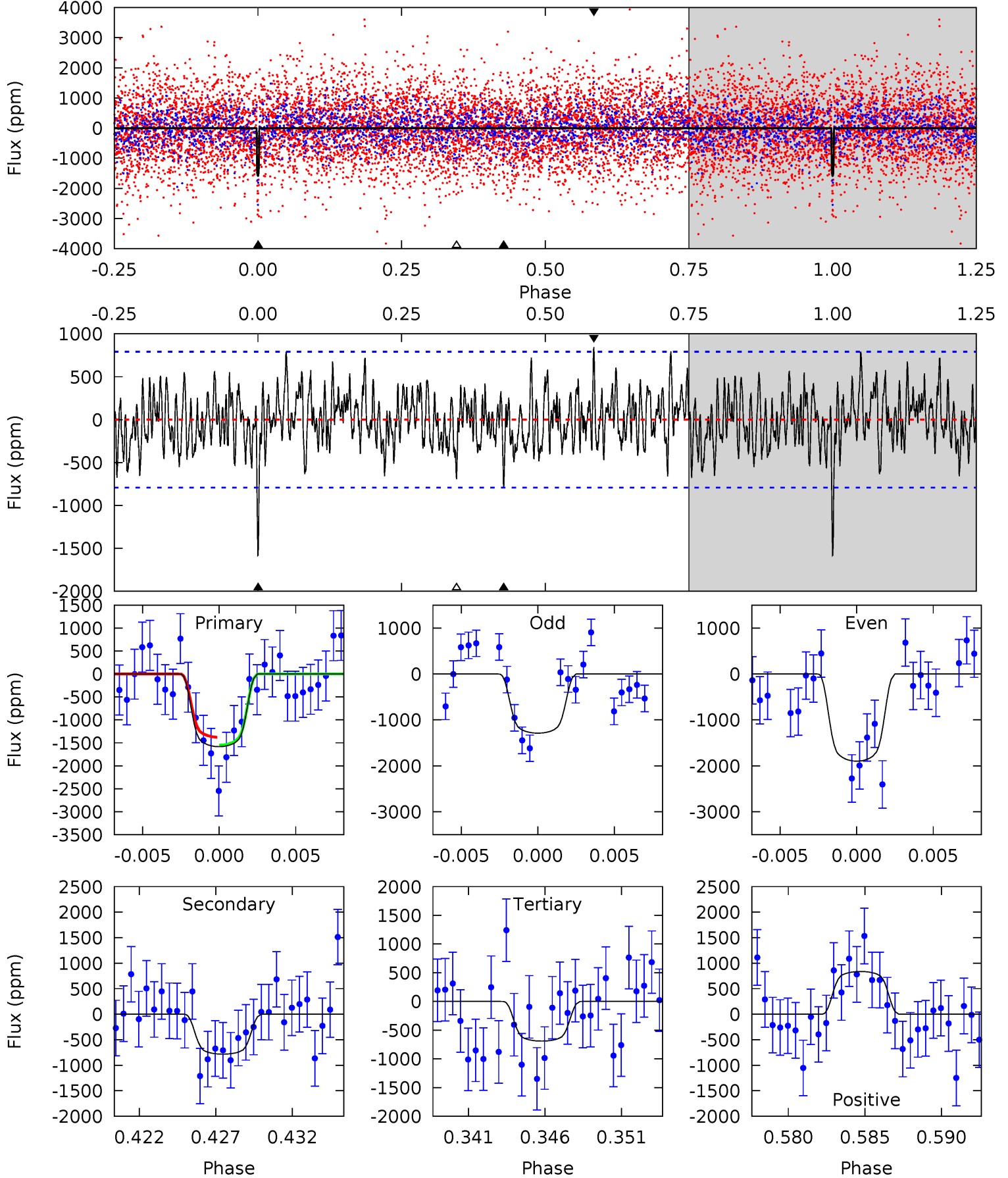
TCE 006635026-03 P= 38.424349 Days $T_0=143.123867$ (BKJD)



DV Model-Shift Uniqueness Test

006635026-03, P = 38.428035 Days, E = 104.628875 Days

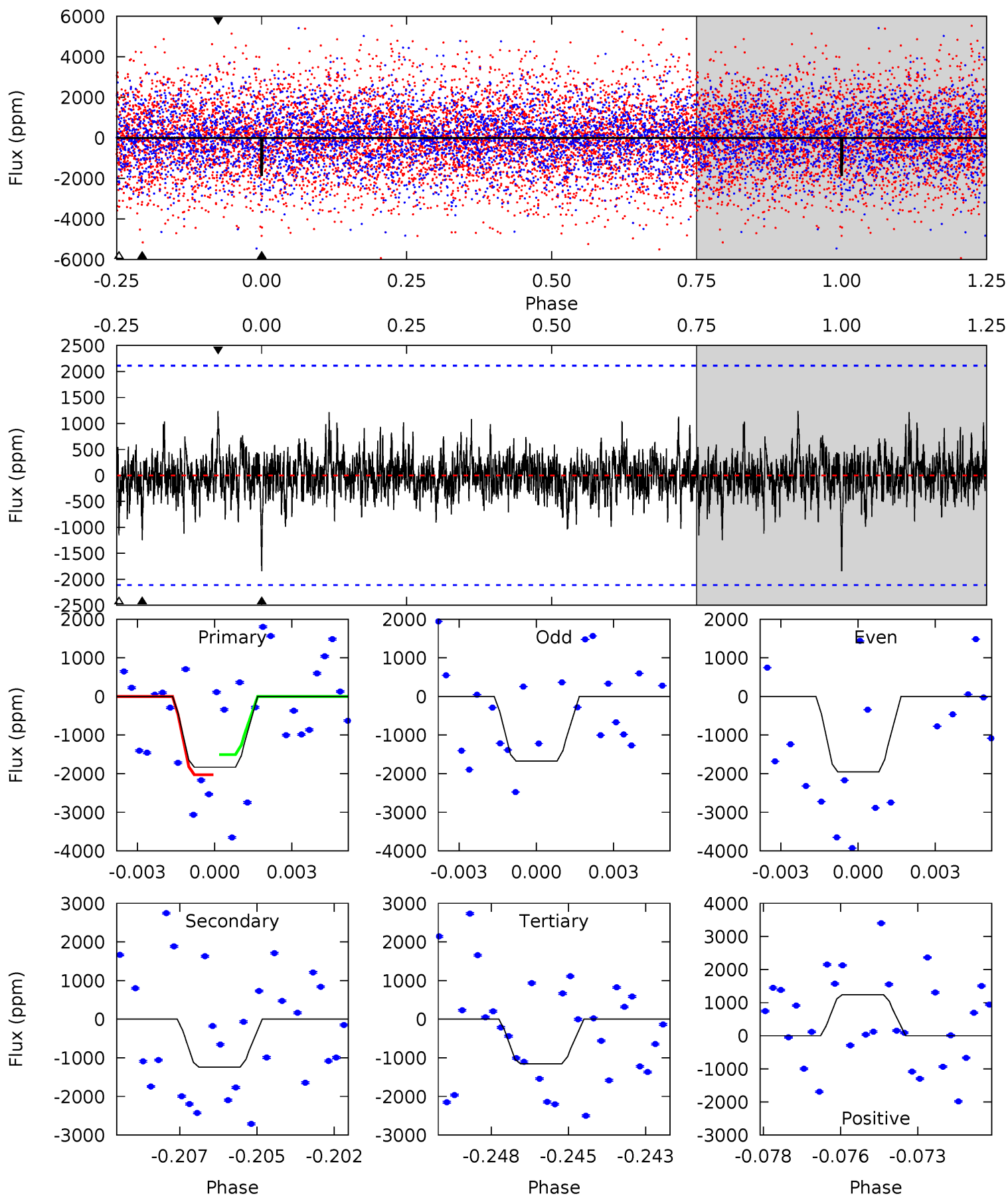
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.3	5.10	4.49	5.45	5.15	2.80	1.74	5.81	4.86	0.60	-0.35	1.94	0.96	0.35	0.56



Alt Model-Shift Uniqueness Test

006635026-03, P = 38.424349 Days, E = 104.699518 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.59	3.11	2.89	3.11	5.28	3.02	0.78	1.70	1.48	0.21	0.00	0.35	0.79	0.40	0.63



Stellar Parameters For KIC 006635026

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7485^{+209}_{-340}	$3.952^{+0.260}_{-0.140}$	$-0.060^{+0.200}_{-0.400}$	$2.310^{+0.507}_{-0.760}$	$1.743^{+0.195}_{-0.363}$	$0.199^{+0.337}_{-0.084}$
	+3%/-5%	+7%/-4%	+333%/-667%	+22%/-33%	+11%/-21%	+169%/-42%
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 006635026-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-783 ± 154	$10.88^{+2.20}_{-2.06}$	1335^{+94}_{-122}	5797^{+469}_{-430}	254^{+140}_{-82}
Alt.	-1242 ± 400	$10.90^{+2.32}_{-2.18}$	1335^{+98}_{-120}	6442^{+842}_{-659}	398^{+265}_{-155}

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

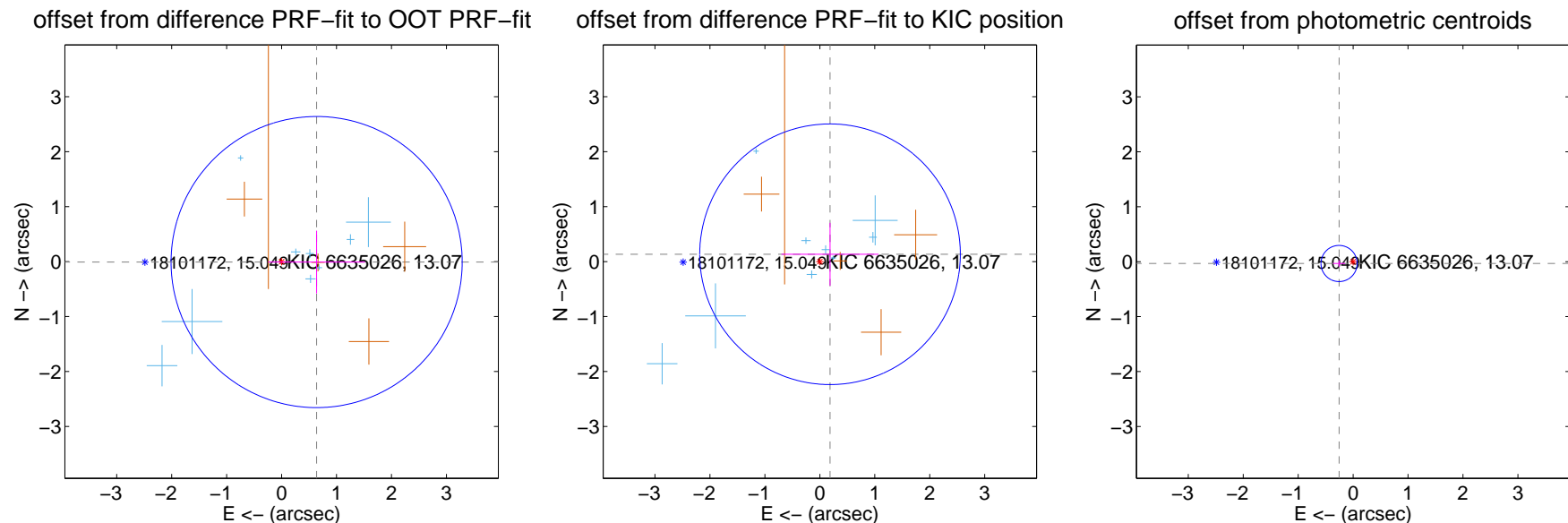
DV Centroid Data

Supplemental centroid analysis for 006635026-03. Kepler magnitude: 13.07. Transit SNR 13.95

There are 9 quarters with good PRF difference image offsets

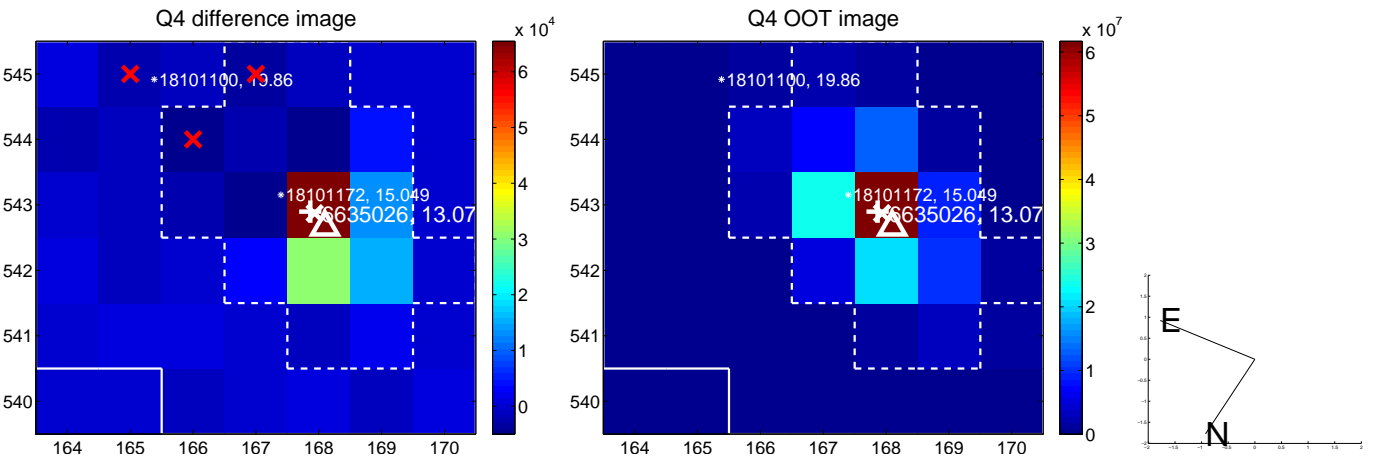
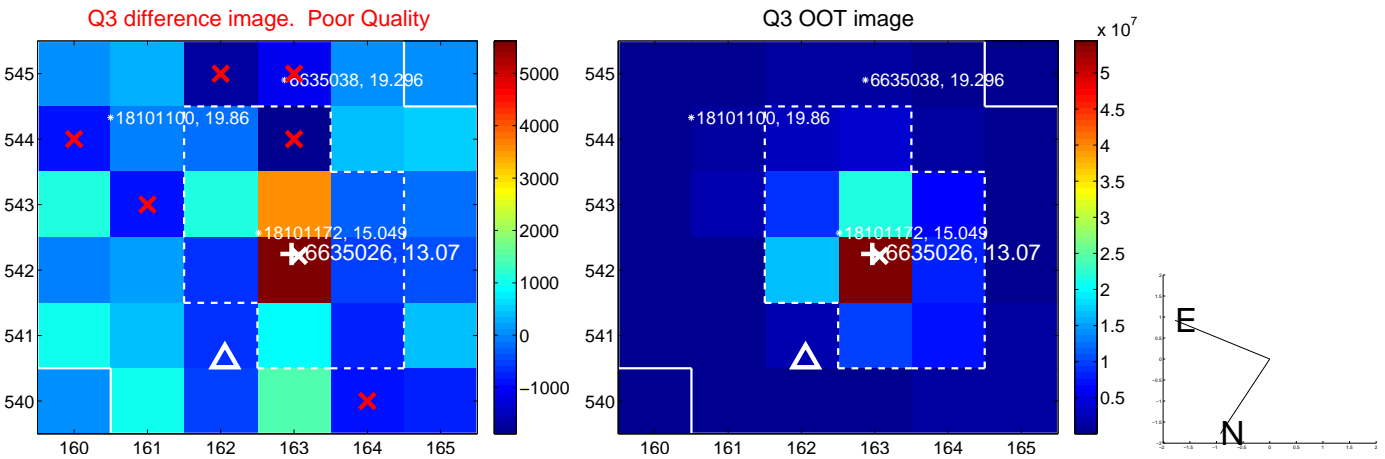
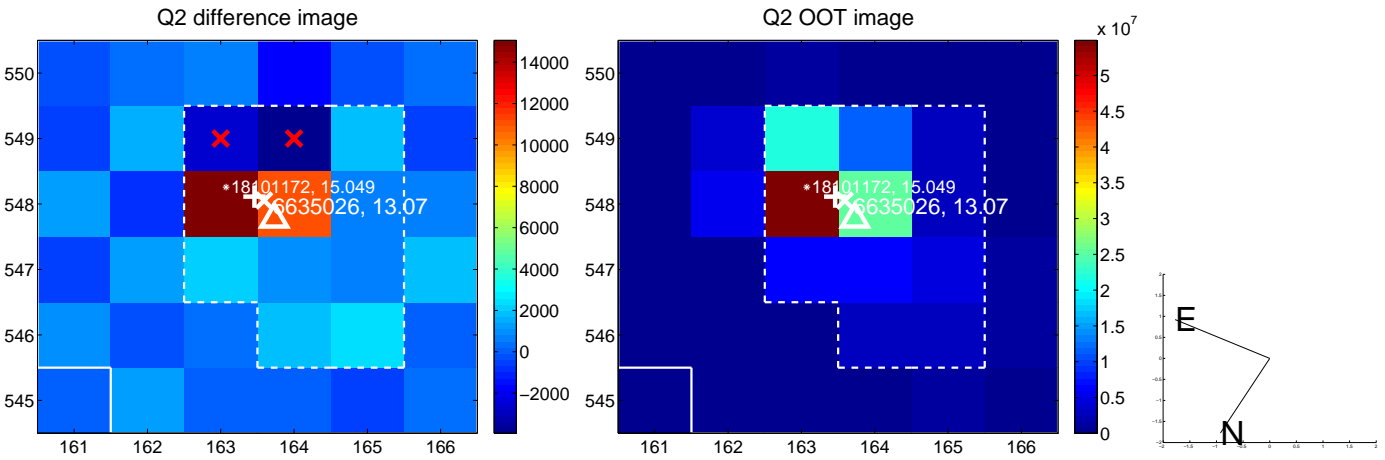
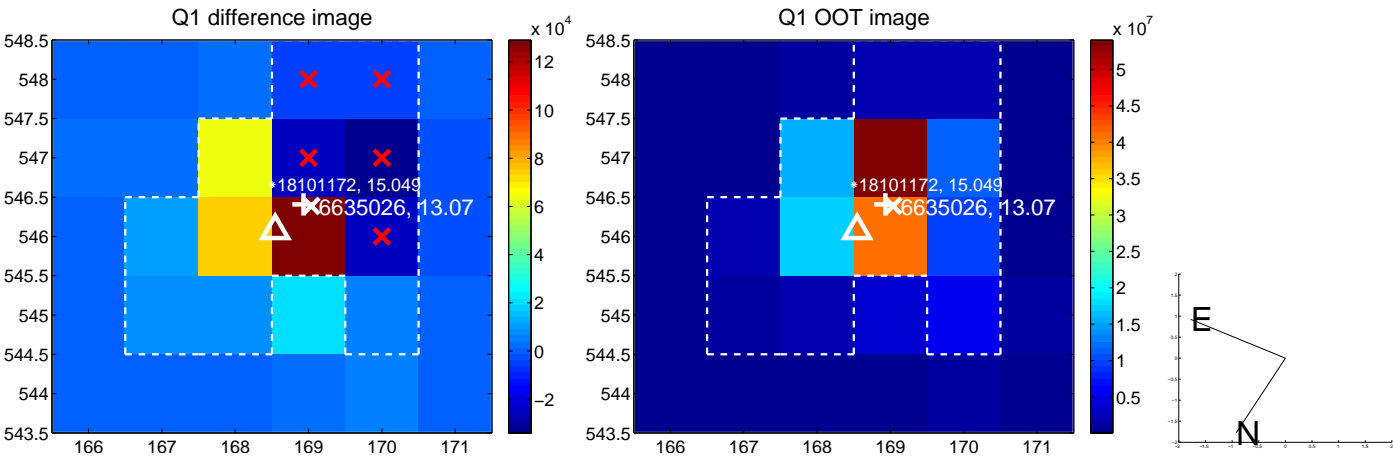
The direct PRF centroid is offset from the target star catalog position by about 0.55 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.638 ± 0.883	0.72	-0.638 ± 0.883	-0.009 ± 0.571
PRF-fit source offset from KIC position	0.229 ± 0.791	0.29	-0.185 ± 0.883	0.134 ± 0.571
photometric centroid source offset	0.26 ± 0.11	2.35	0.26 ± 0.11	-0.03 ± 0.06

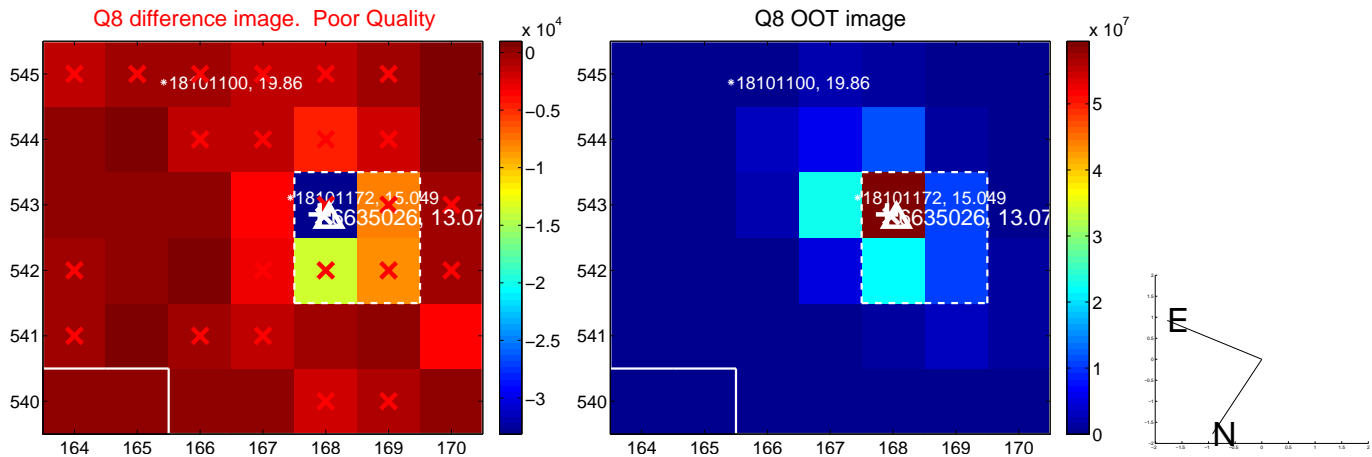
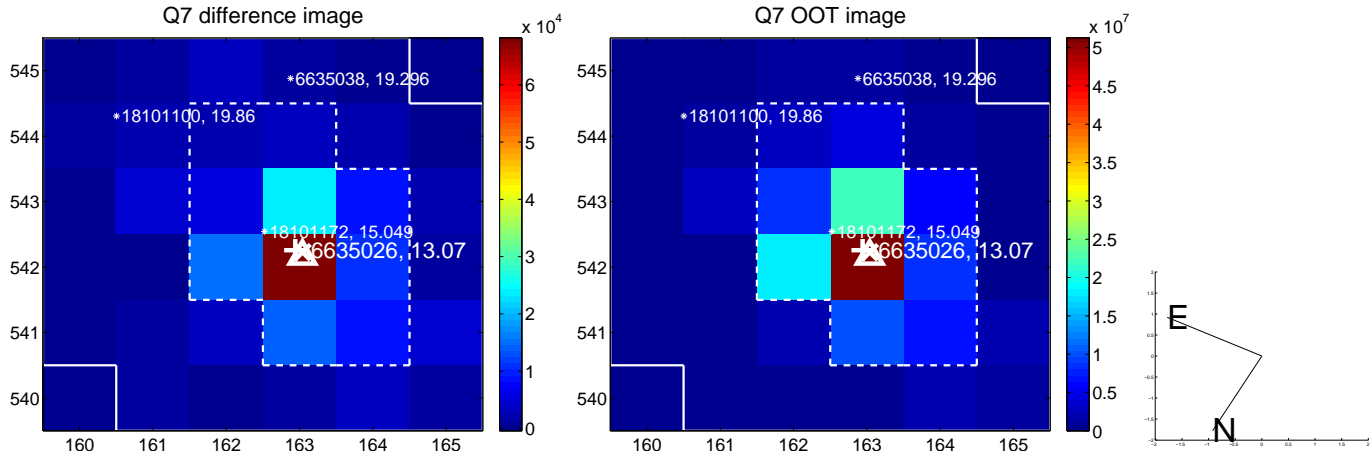
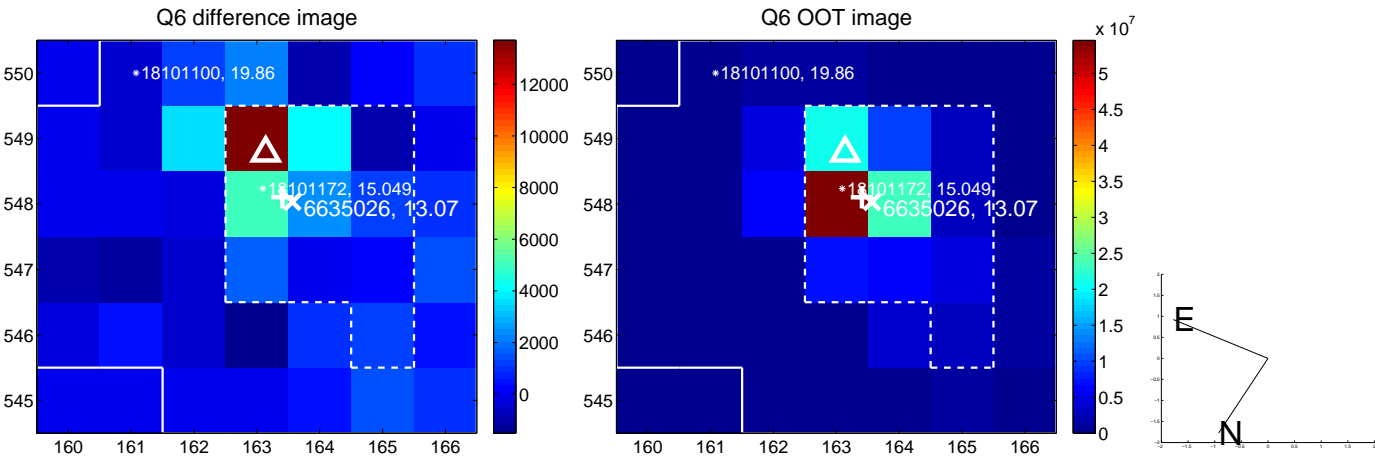
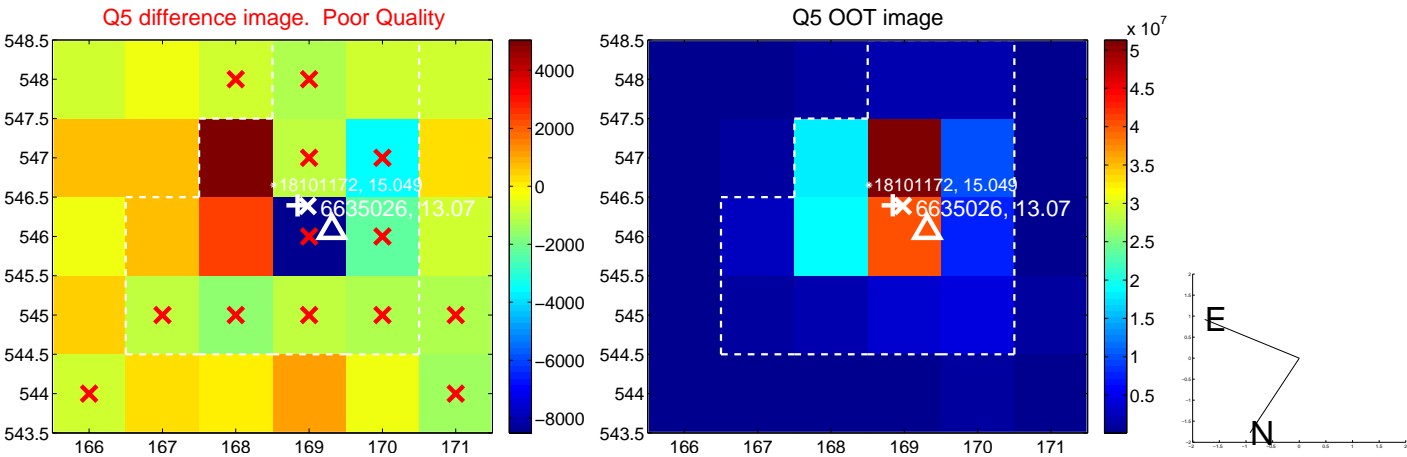


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

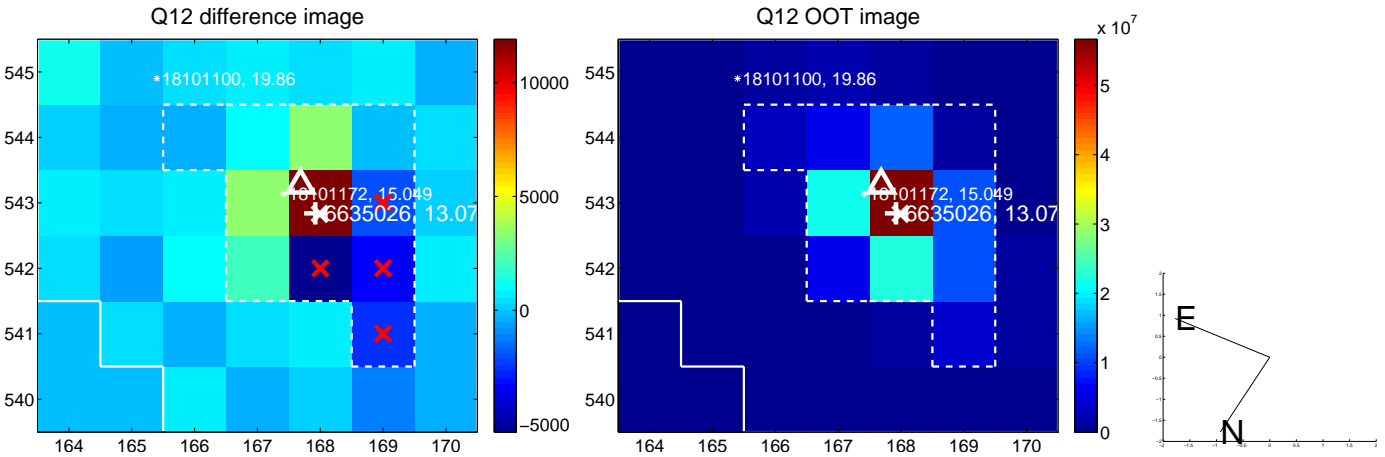
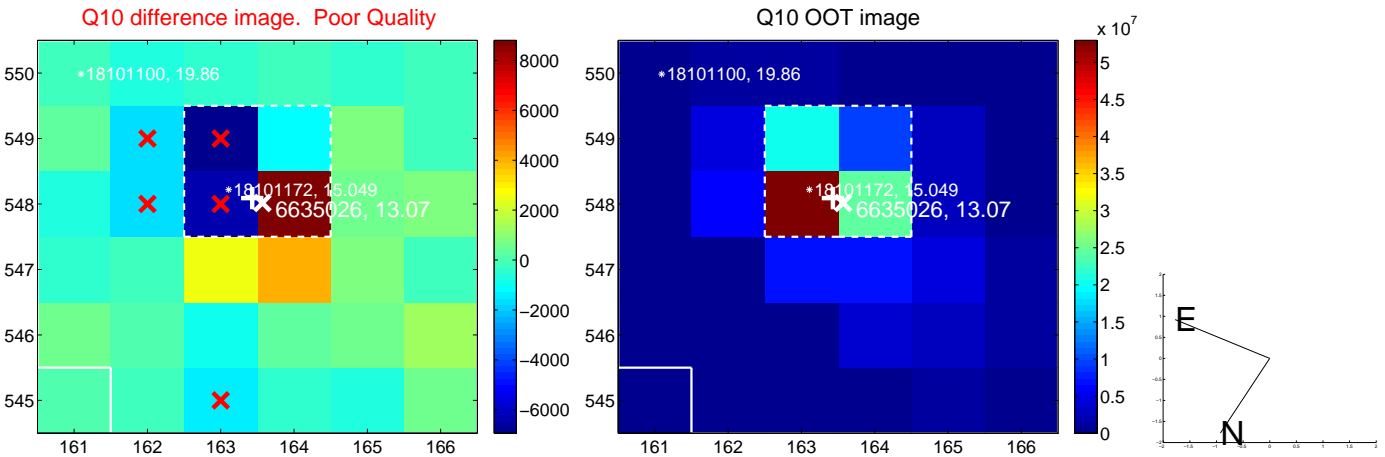
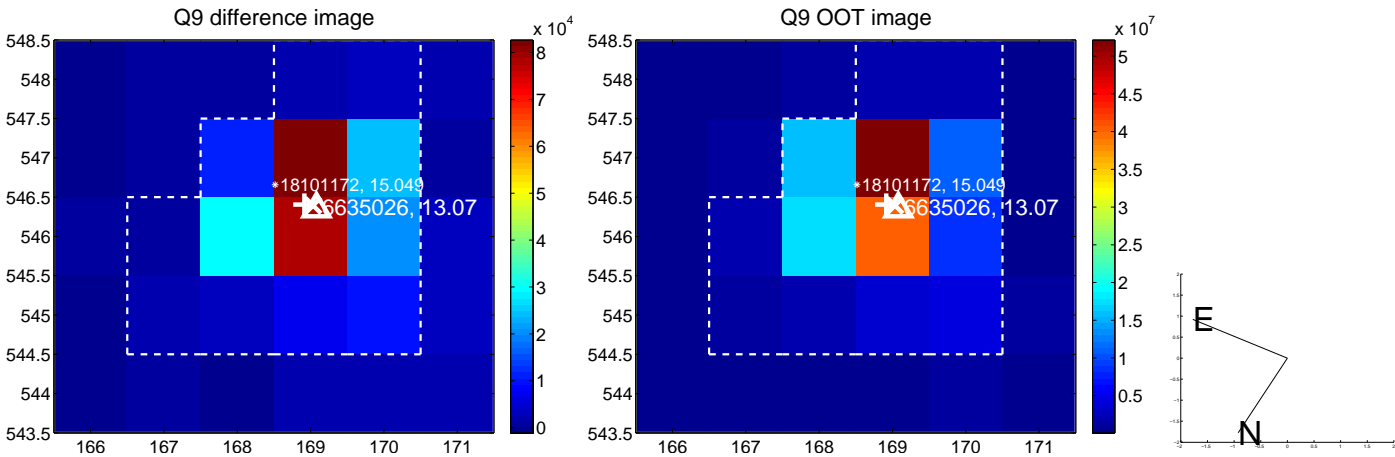
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



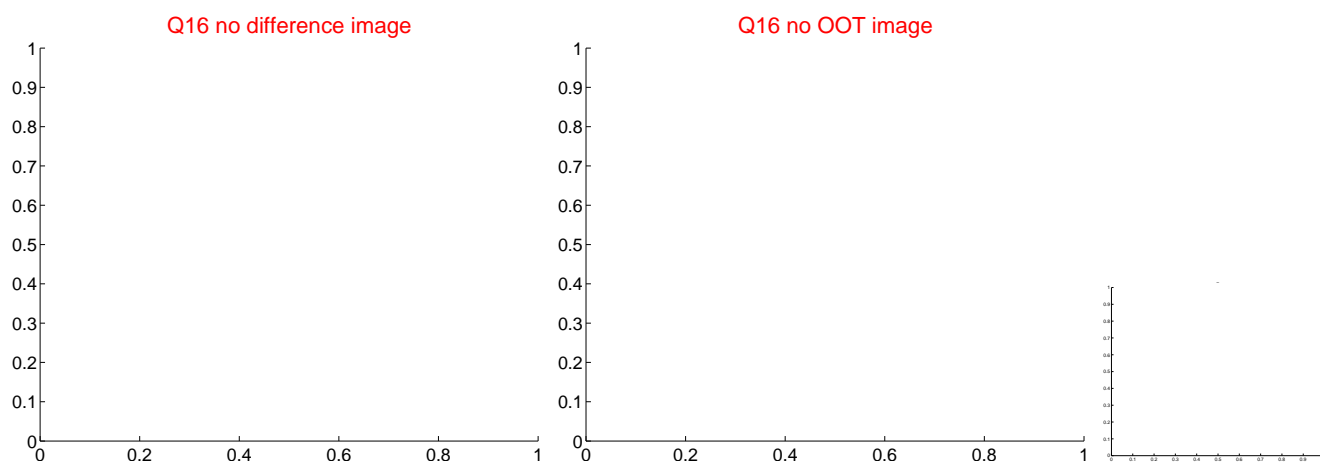
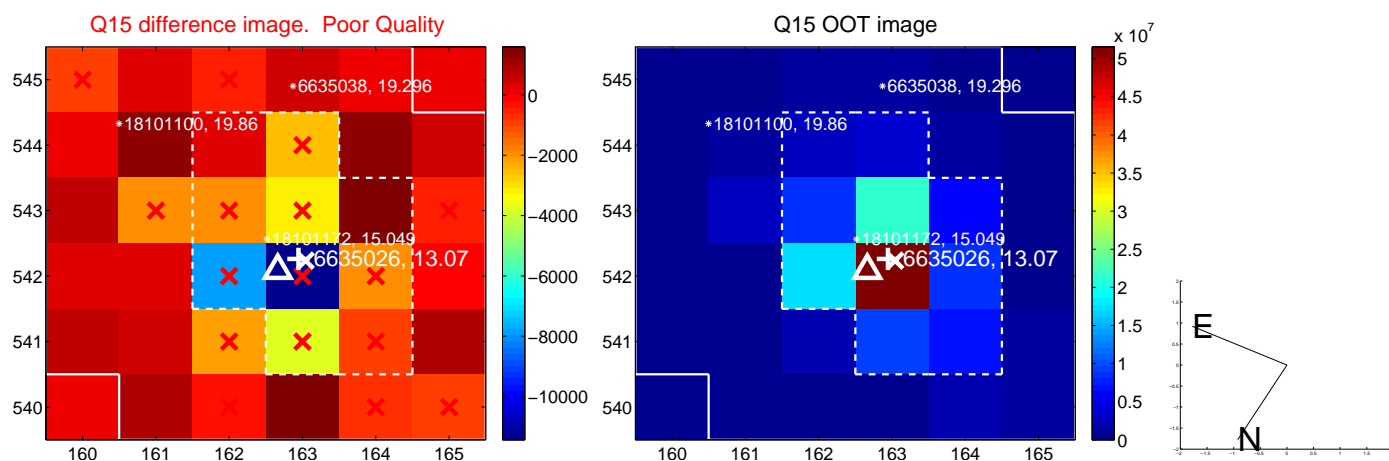
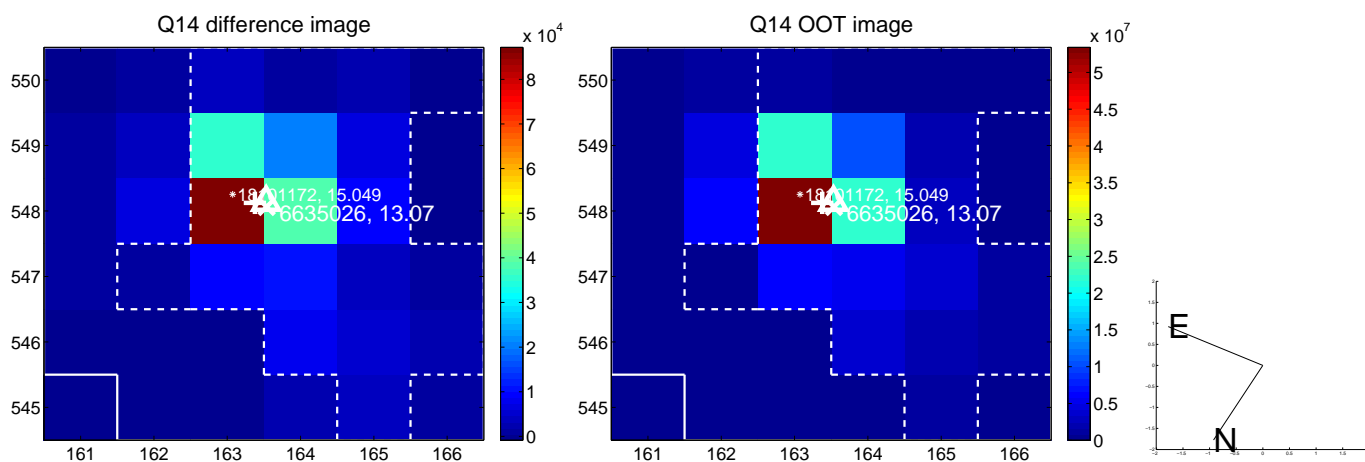
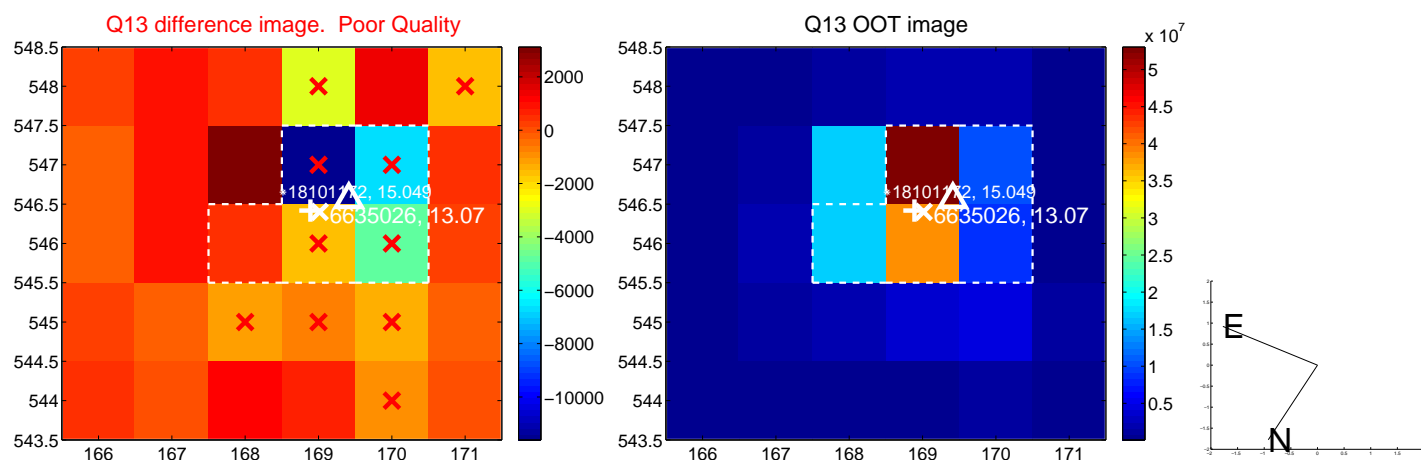
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



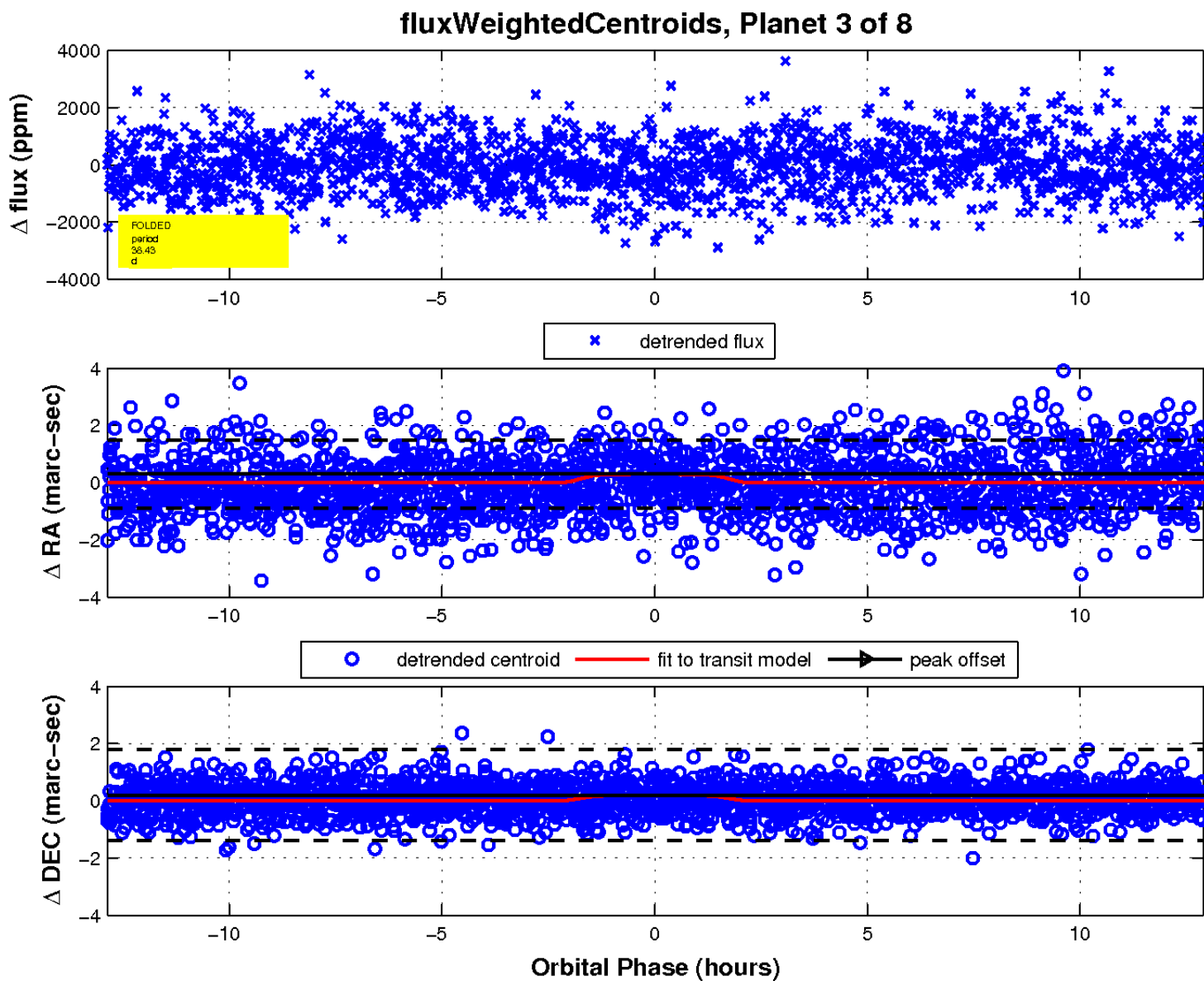
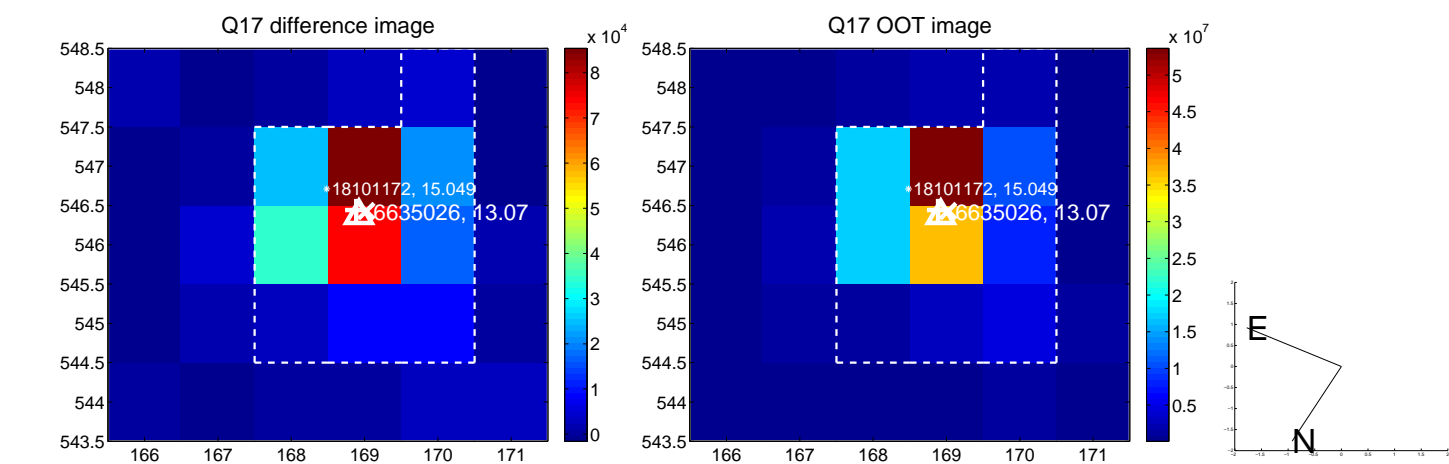
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

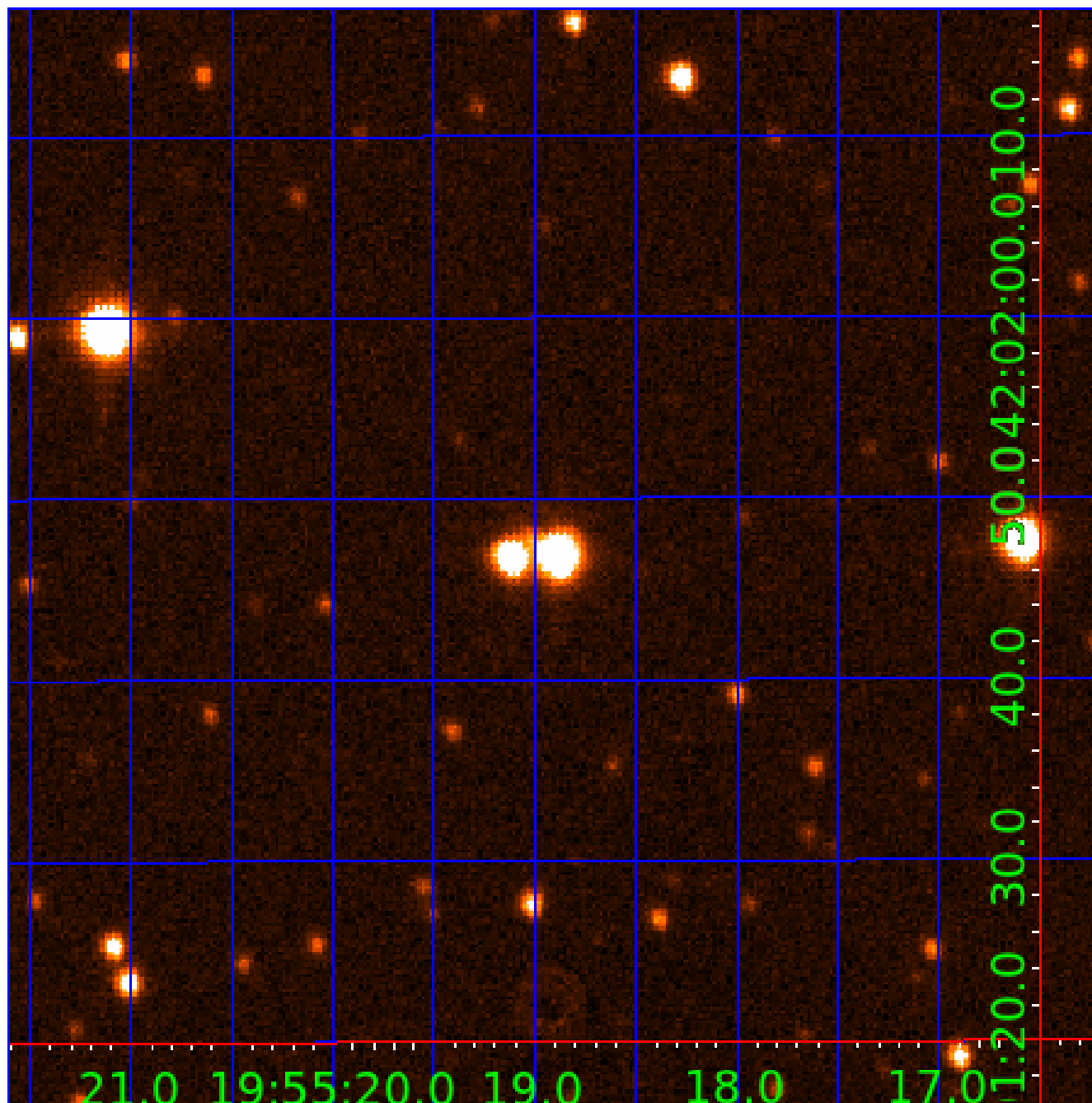


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006635026

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})
006635026-01	OBS	No	0.723688	131.859976	109.1	4.950	17.4	11.8	2.31	7485	2.47	41623.07
006635026-02	OBS	No	140.939510	227.746688	2913.0	2.723	15.6	14.5	2.31	7485	13.93	36.87
006635026-03	OBS	No	38.428035	143.056910	1806.0	4.305	12.5	13.9	2.31	7485	11.32	208.55
006635026-04	OBS	No	60.219450	138.742859	2649.4	1.049	13.6	11.5	2.31	7485	12.25	114.57
006635026-05	OBS	No	26.980444	145.913094	1970.5	1.300	11.3	11.5	2.31	7485	10.74	334.20
006635026-06	OBS	No	36.206055	155.848699	1444.1	3.245	9.8	9.4	2.31	7485	13.34	225.78
006635026-07	OBS	No	135.464597	151.815020	1424.1	8.019	9.2	9.7	2.31	7485	9.36	38.87
006635026-08	OBS	No	80.986429	157.236489	1366.0	11.106	9.4	8.6	2.31	7485	8.86	77.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006635026-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_KIC_POS
006635026-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
006635026-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_KIC_POS
006635026-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

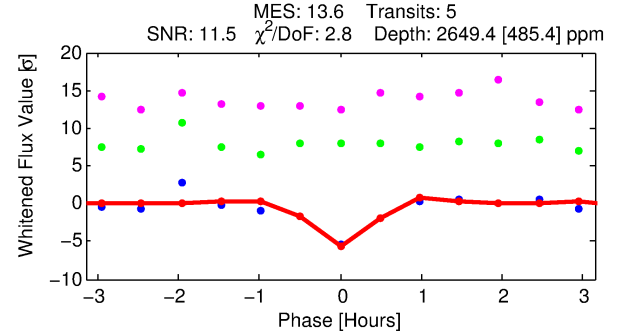
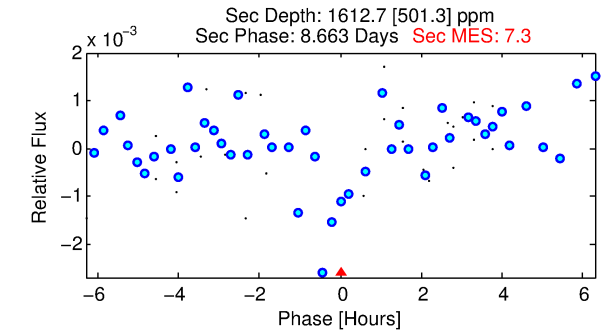
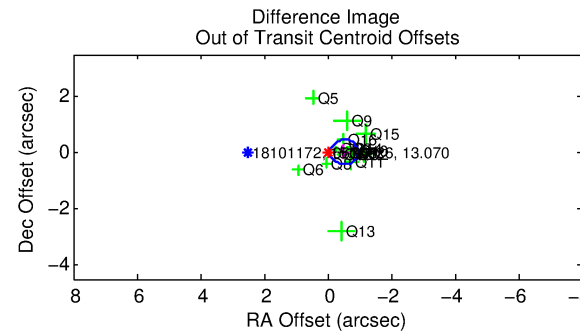
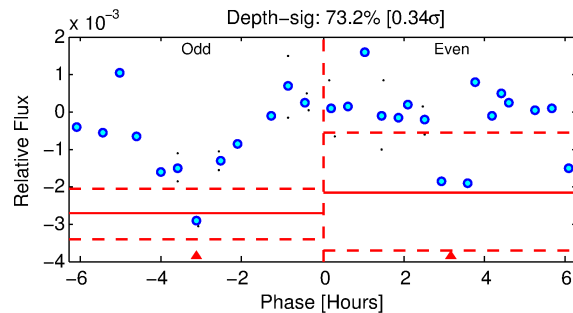
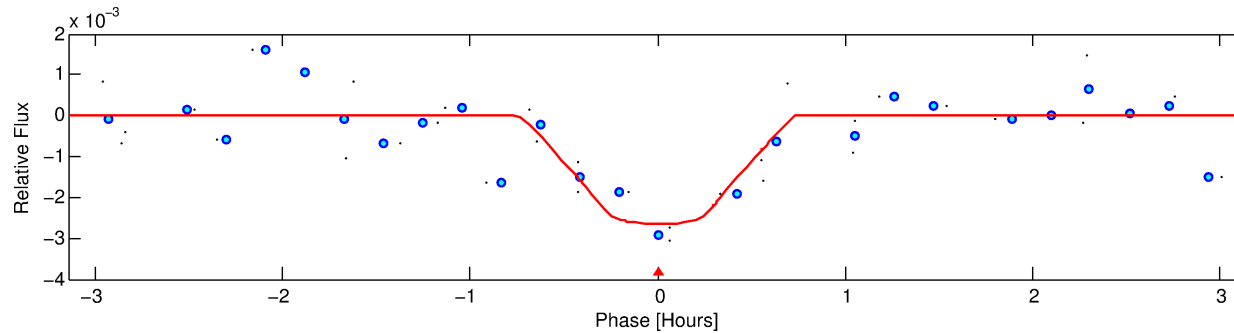
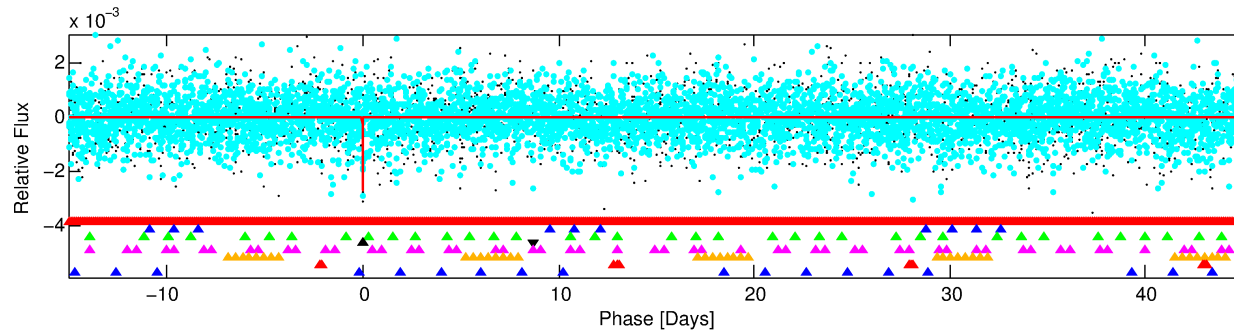
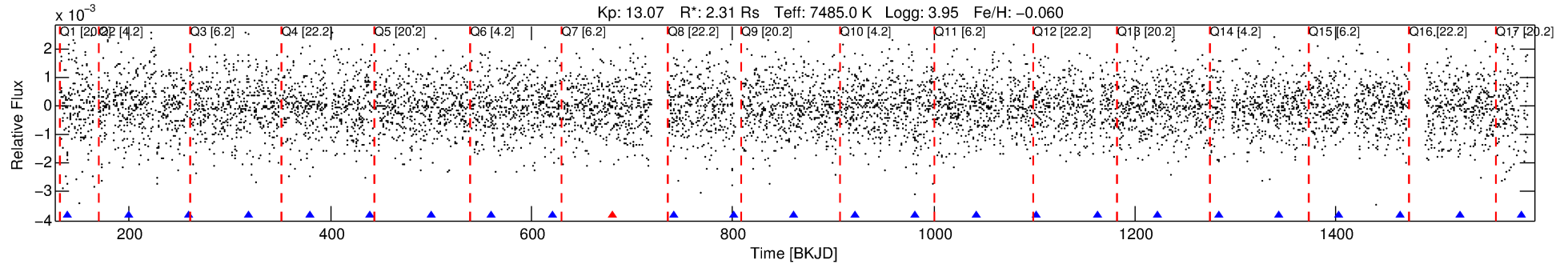
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006635026-04

No Significant Match Found

DV One-Page Summary

KIC: 6635026 Candidate: 4 of 8 Period: 60.219 d



DV Fit Results:

Period = 60.21945 [0.00032] d
Epoch = 138.7429 [0.0045] BKJD
Rp/R* = 0.0486 [0.1698]
a/R* = 440.58 [8826.00]
b = 0.30 [62.99]
Seff = 114.57 [56.18]
Teq = 834 [102] K
Rp = 12.25 [42.99] Re
a = 0.3619 [0.1073] AU
Ag = 774.59 [5430.09] [0.14 σ]
Teffp = 6805 [11904] K [0.50 σ]

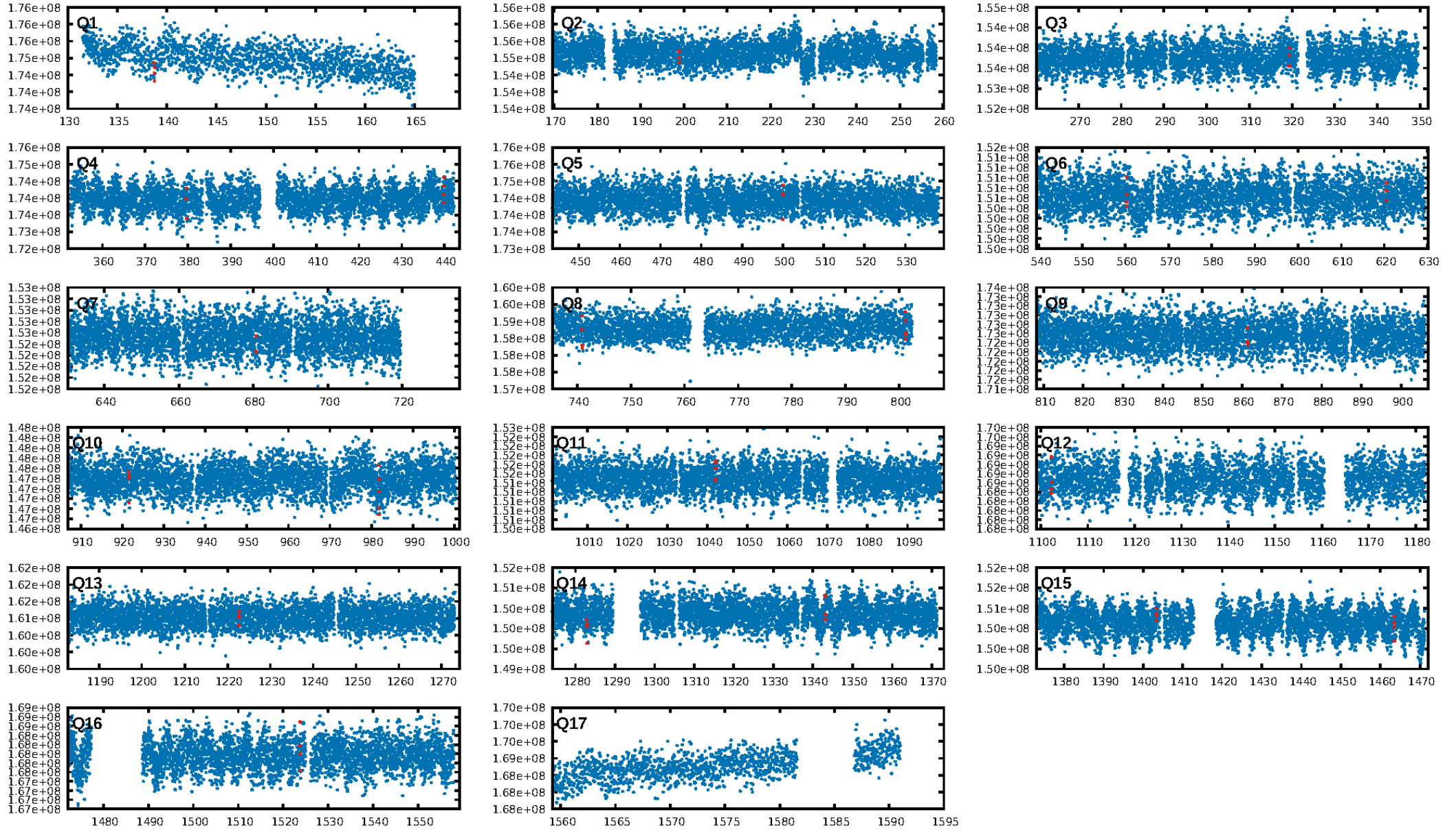
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [118.03 σ]
LongPeriod-sig: 100.0% [44.68 σ]
ModelChiSquare2-sig: 2.5%
ModelChiSquareGof-sig: 41.4%
Bootstrap-pfa: 1.42e-13
RollingBand-fgt: 0.75 [3/4]
GhostDiagnostic-chr: -0.6838
Centroid-sig: 68.1%
Centroid-so: 0.343 arcsec [2.24 σ]
OotOffset-rm: 0.518 arcsec [3.58 σ]
KicOffset-rm: 0.199 arcsec [1.06 σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.50 [8/16]
DiffImageOverlap-fno: 0.19 [3/16]

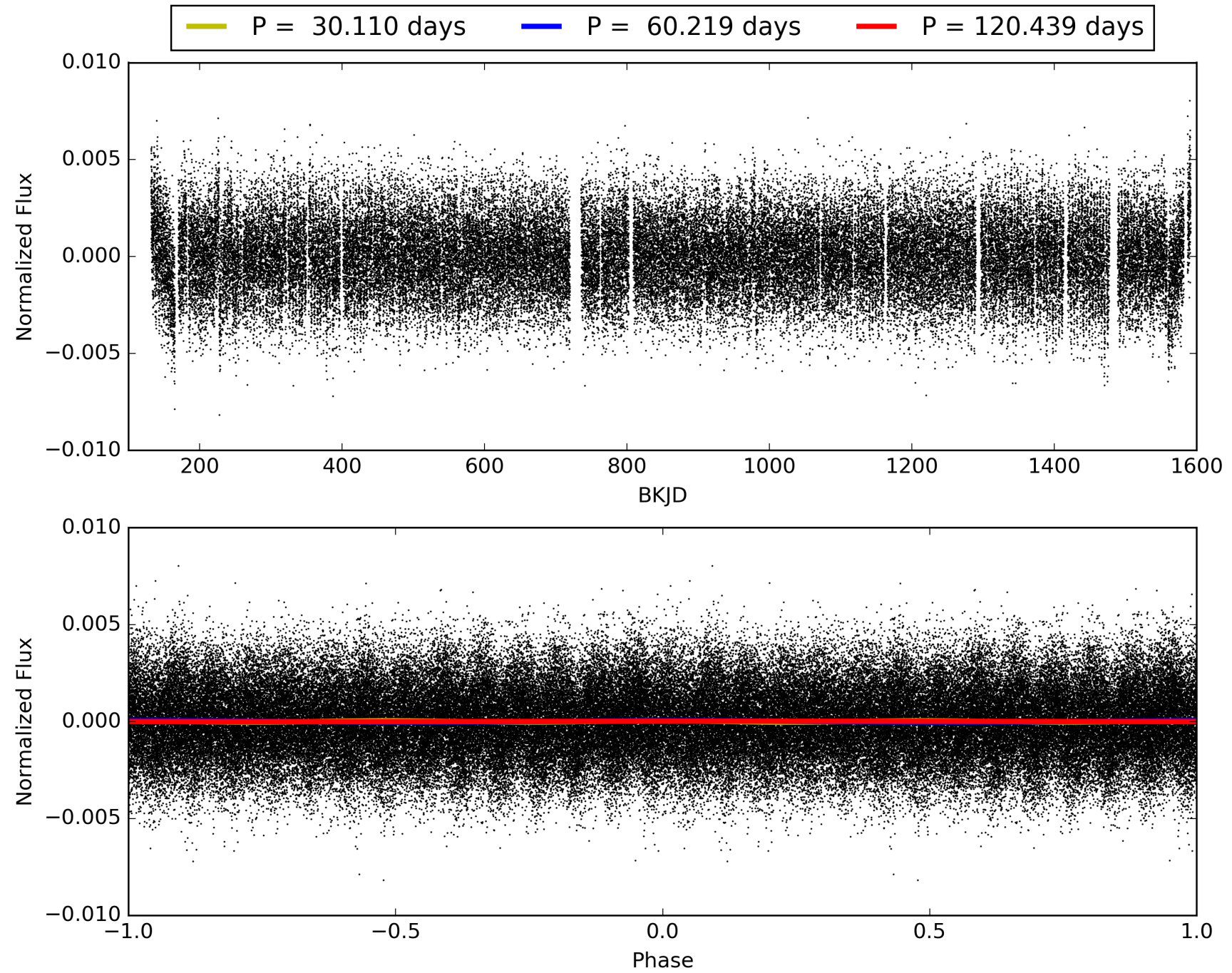
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:19:49 Z

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

TCE 006635026-04, PDC Light Curves

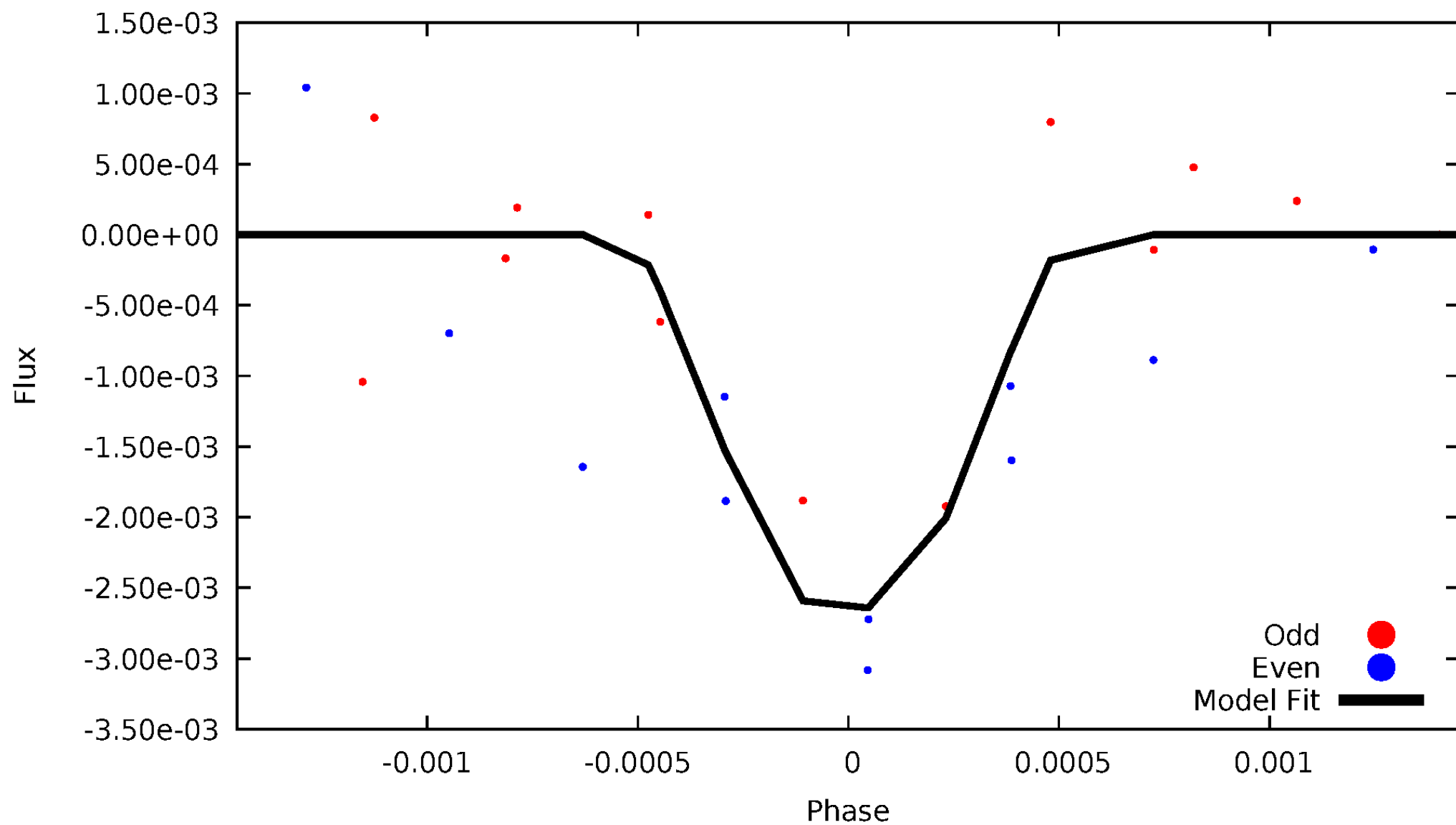


TCE 006635026-04



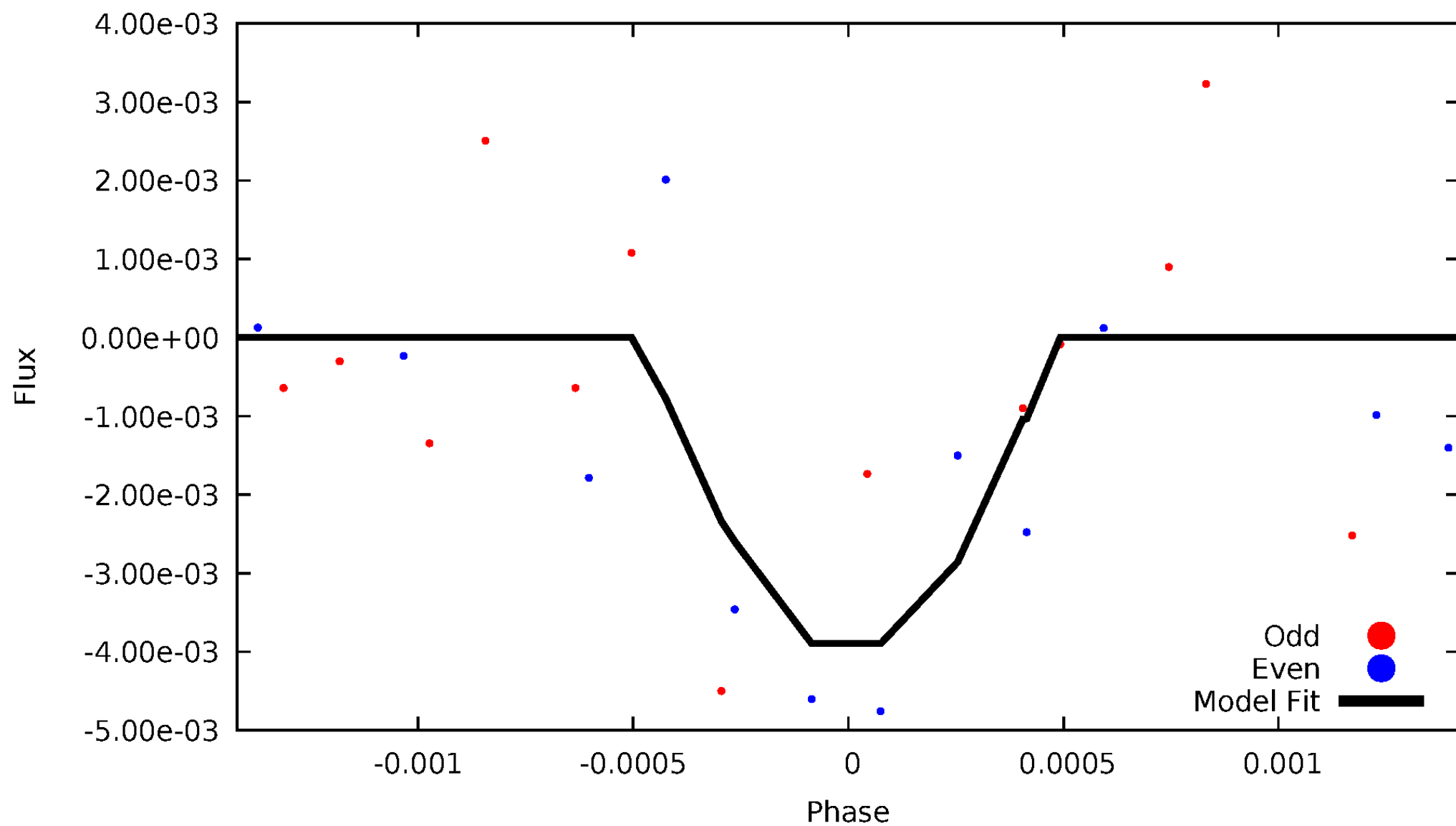
DV Odd/Even

TCE 006635026-04



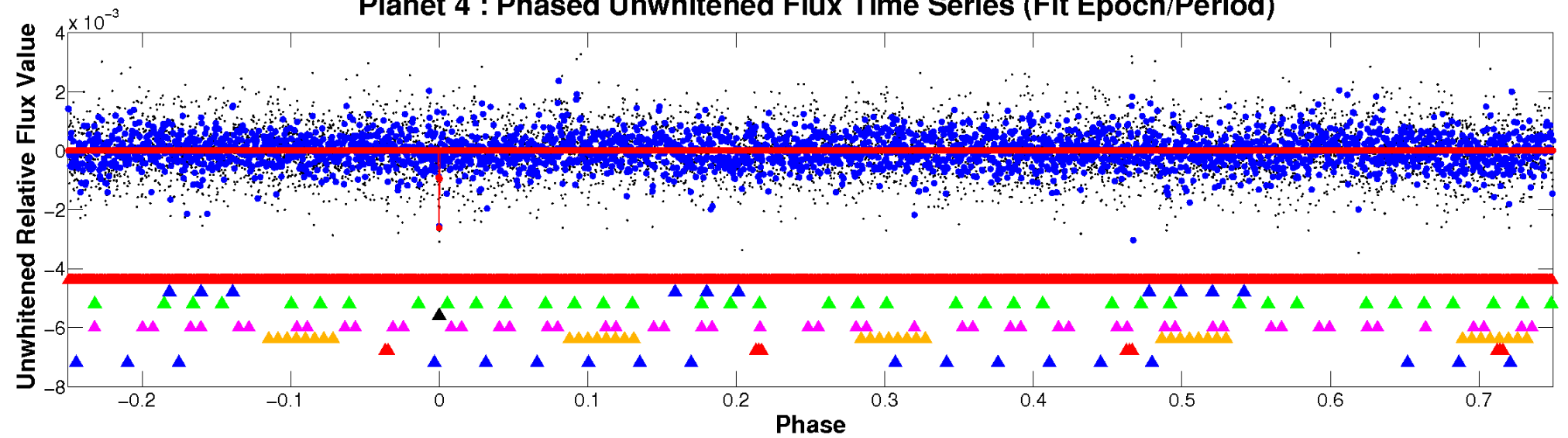
ALT Odd/Even

TCE 006635026-04

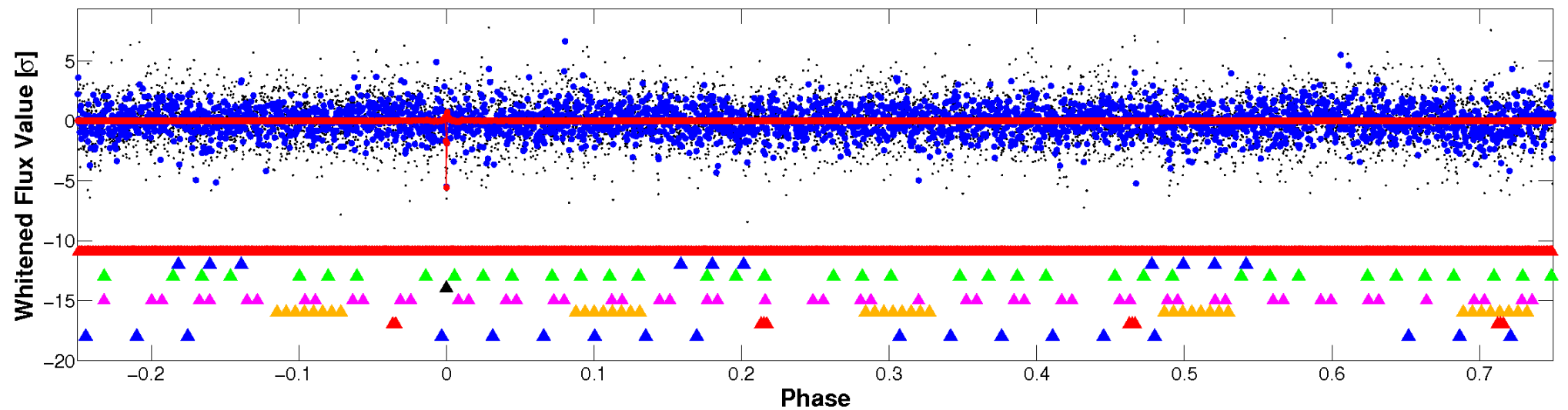


Non-Whitened Vs. Whitened Light Curve

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

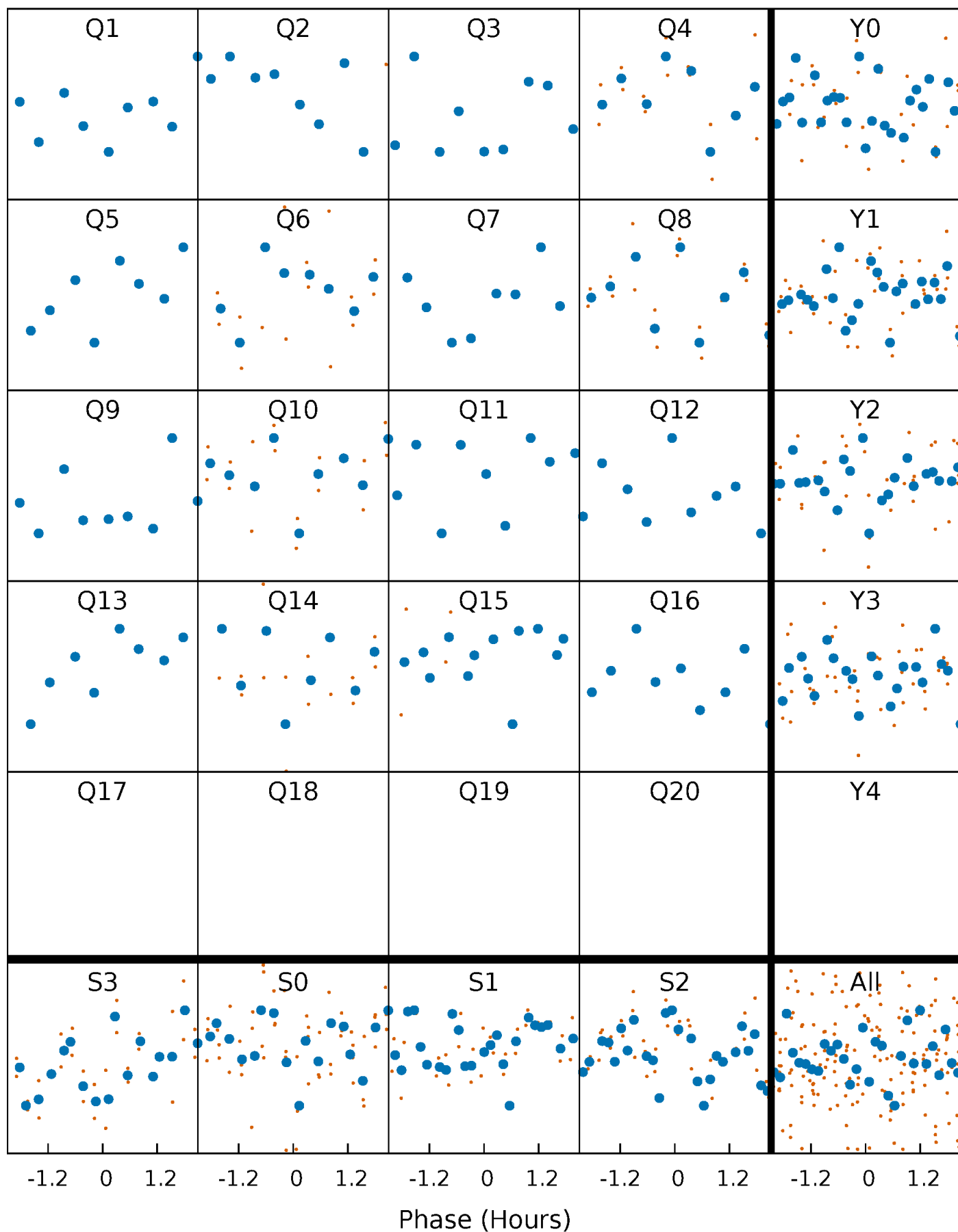


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



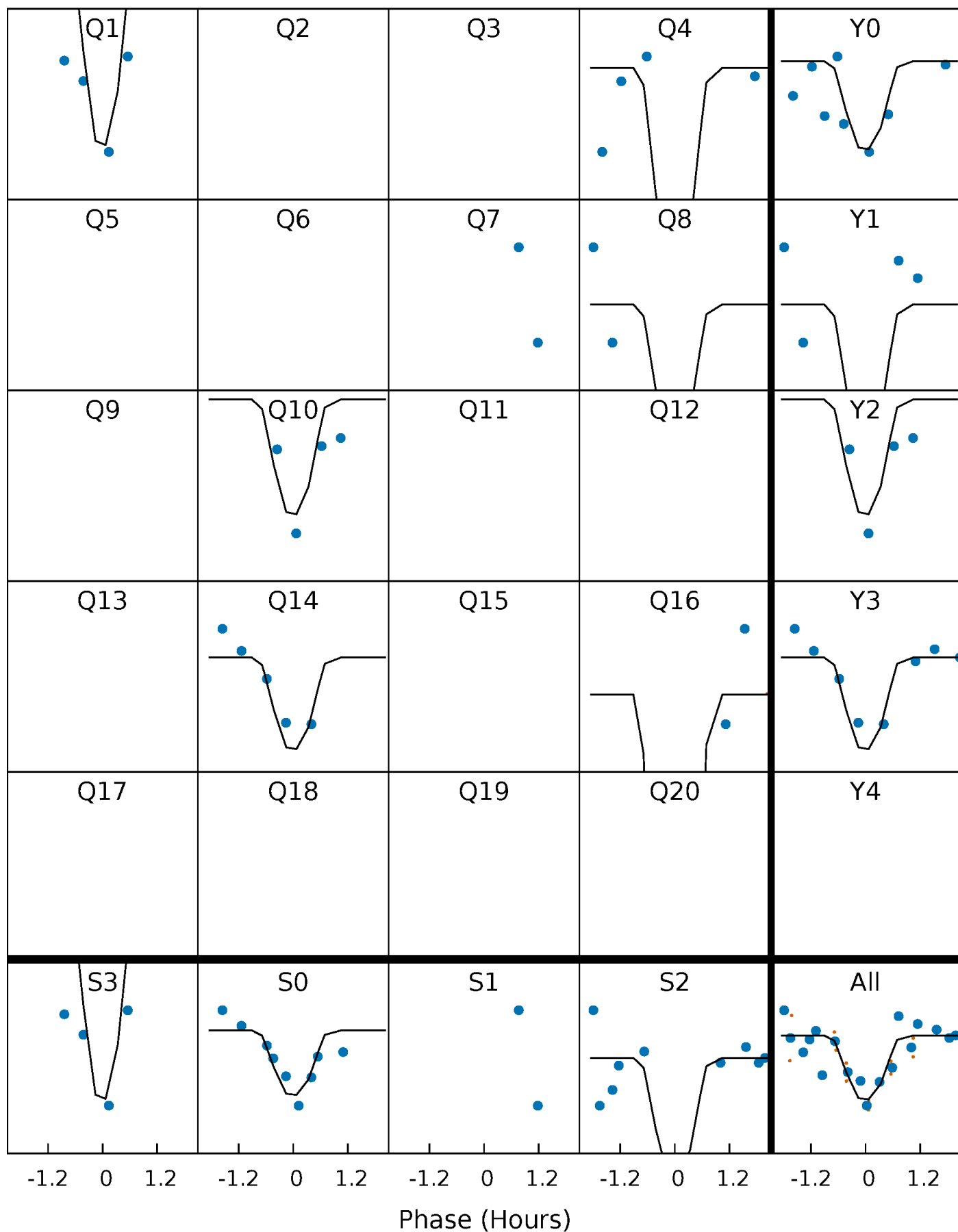
PDC Quarter-Phased Transit Curves

TCE 006635026-04 P= 60.219450 Days $T_0=138.742859$ (BKJD)



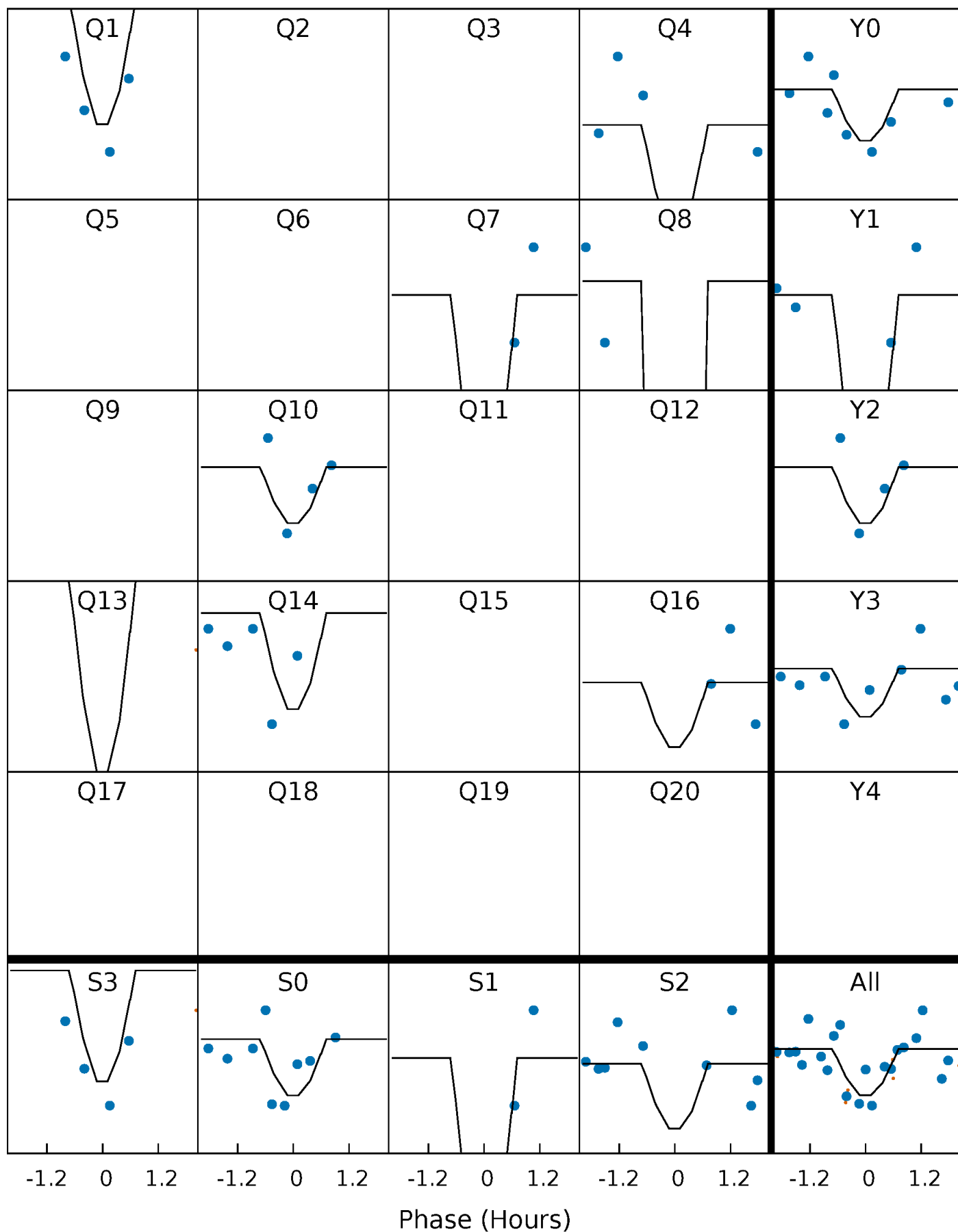
DV Quarter-Phased Transit Curves

TCE 006635026-04 P= 60.219450 Days $T_0=138.742859$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

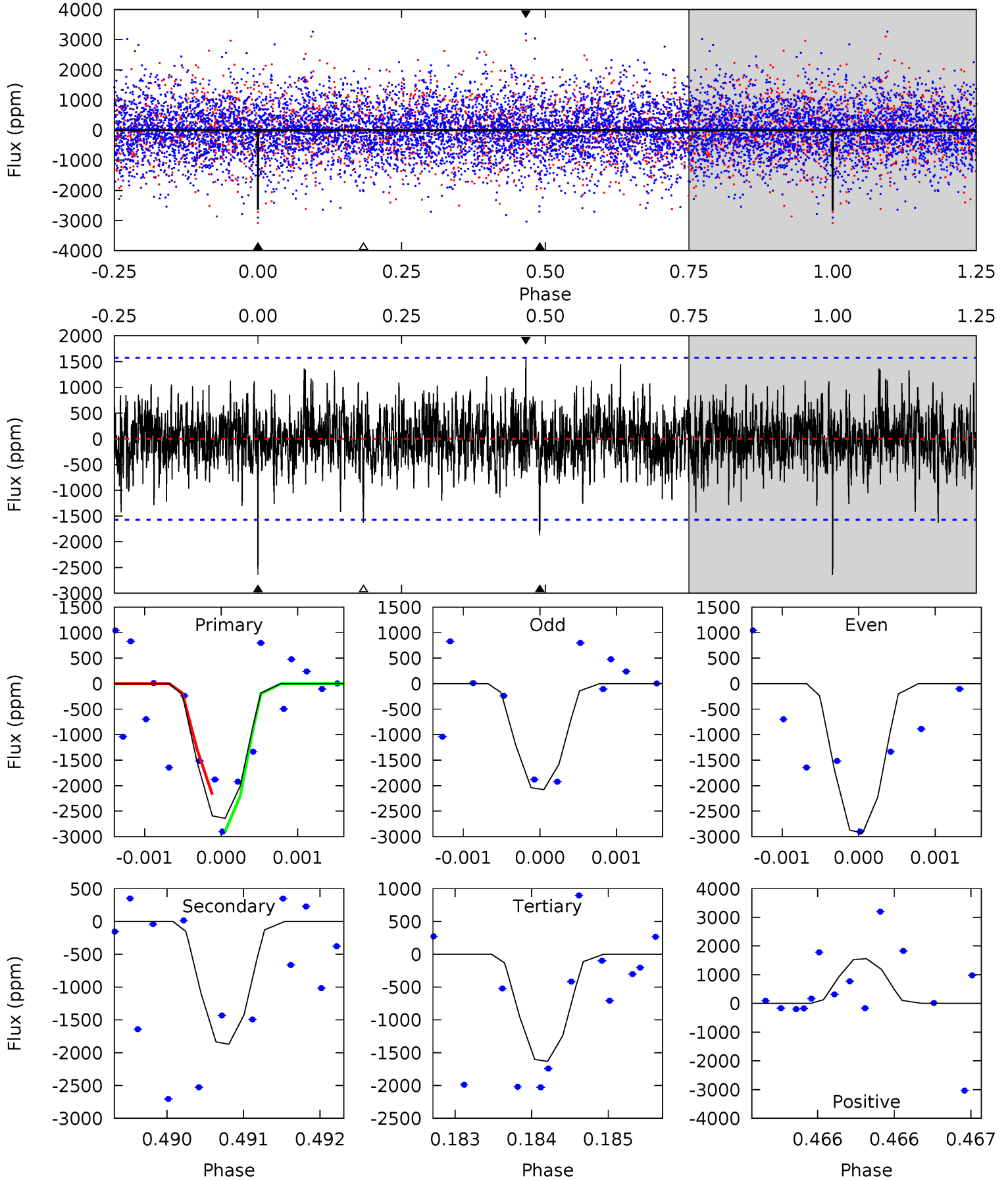
TCE 006635026-04 P= 60.220130 Days $T_0=138.741224$ (BKJD)



DV Model-Shift Uniqueness Test

006635026-04, P = 60.219450 Days, E = 78.523409 Days

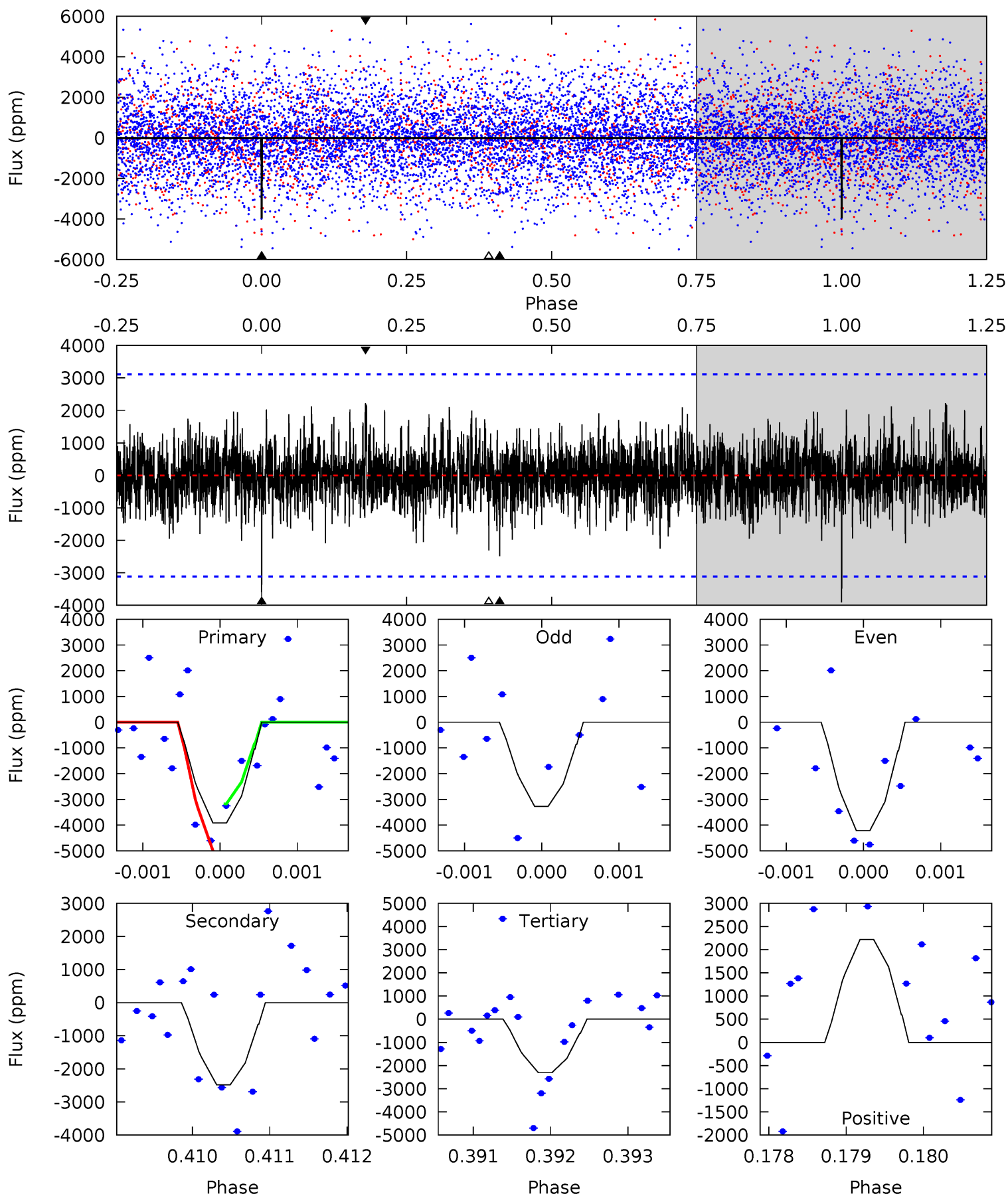
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.16	6.49	5.67	5.41	5.46	3.31	1.41	3.50	3.75	0.83	1.08	1.28	0.94	0.37	1.22



Alt Model-Shift Uniqueness Test

006635026-04, P = 60.220130 Days, E = 78.521094 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.88	4.36	4.06	3.90	5.47	3.31	1.13	2.82	2.98	0.30	0.46	0.82	1.16	0.36	1.56



Stellar Parameters For KIC 006635026

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7485^{+209}_{-340}	$3.952^{+0.260}_{-0.140}$	$-0.060^{+0.200}_{-0.400}$	$2.310^{+0.507}_{-0.760}$	$1.743^{+0.195}_{-0.363}$	$0.199^{+0.337}_{-0.084}$
	+3%/-5%	+7%/-4%	+333%/-667%	+22%/-33%	+11%/-21%	+169%/-42%
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 006635026-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1871 ± 288	$33.53^{+34.09}_{-22.48}$	1150^{+74}_{-103}	4294^{+2969}_{-903}	115^{+1036}_{-85}
Alt.	-2482 ± 569	$33.71^{+35.35}_{-21.42}$	1147^{+87}_{-106}	4526^{+2908}_{-985}	151^{+1031}_{-115}

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

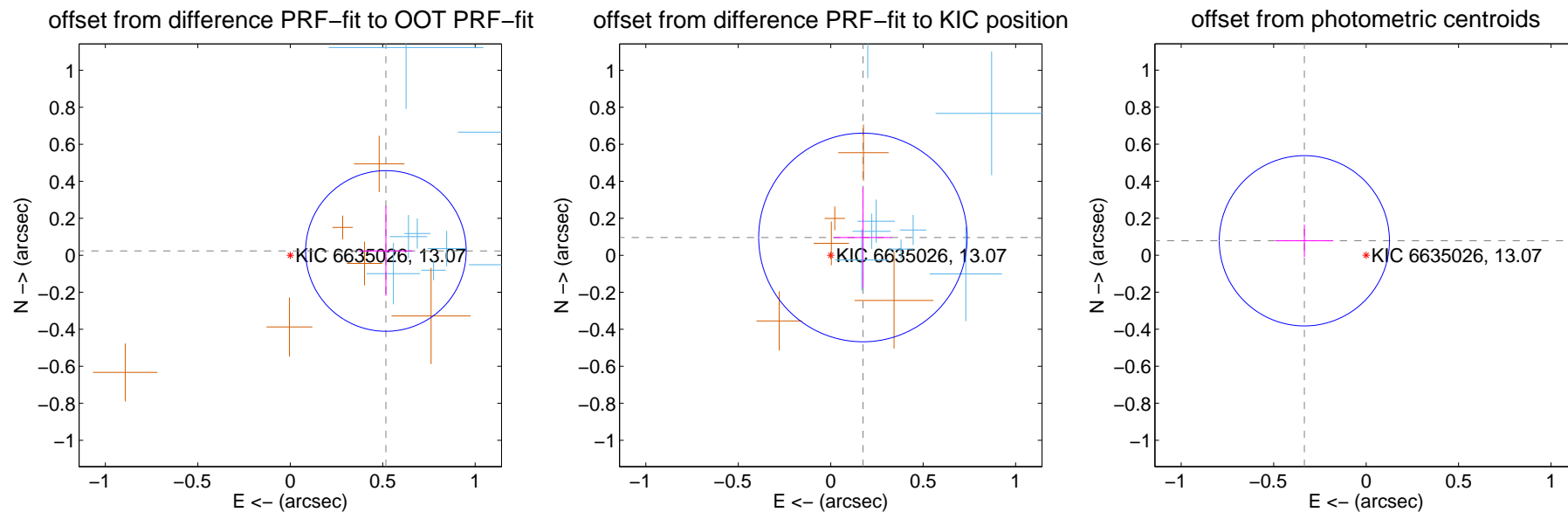
DV Centroid Data

Supplemental centroid analysis for 006635026-04. Kepler magnitude: 13.07. Transit SNR 11.45

There are 8 quarters with good PRF difference image offsets

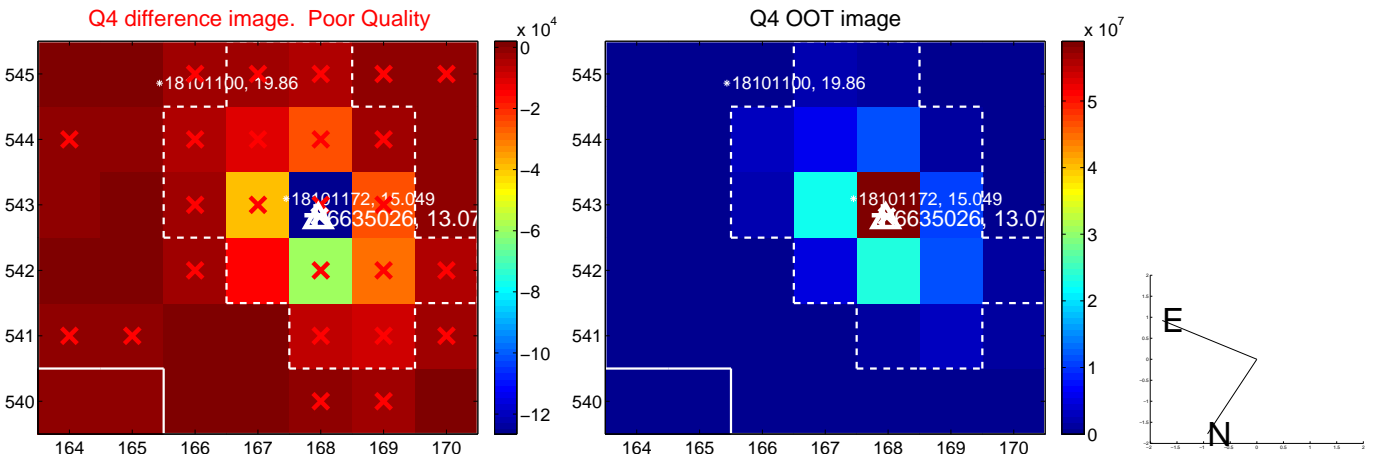
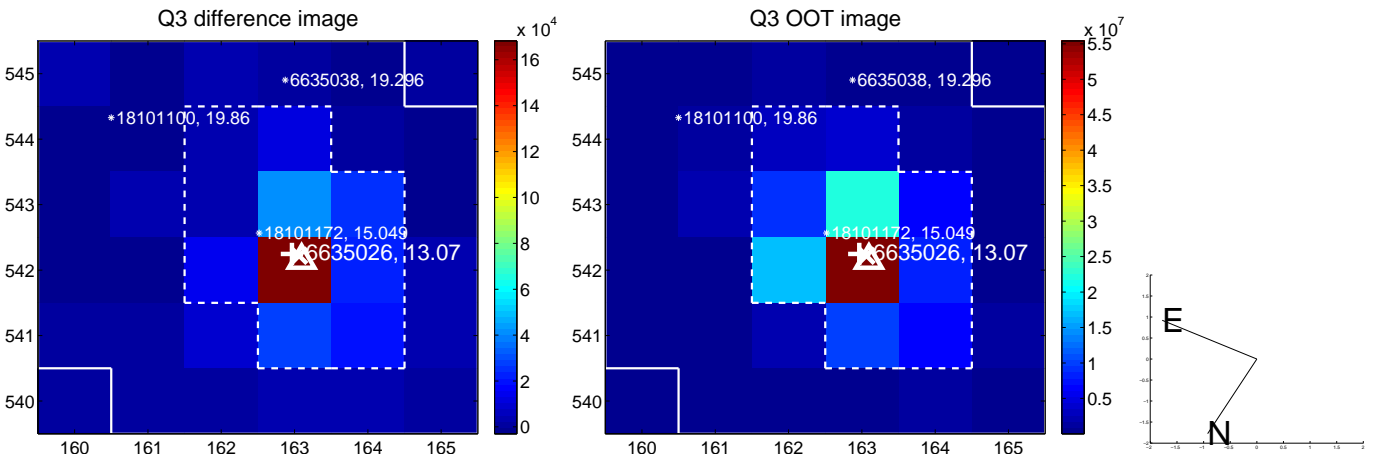
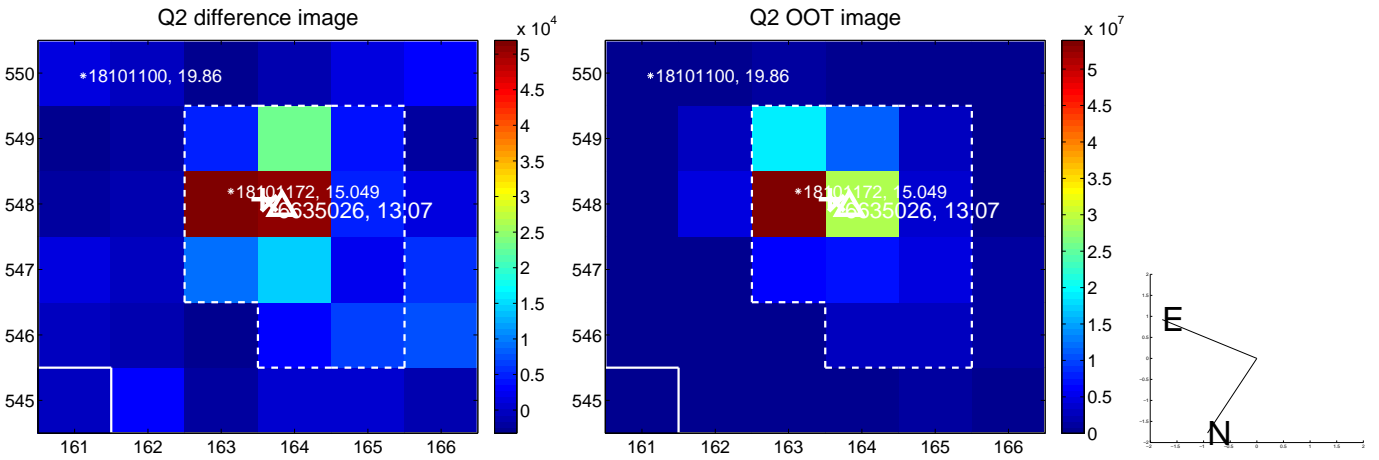
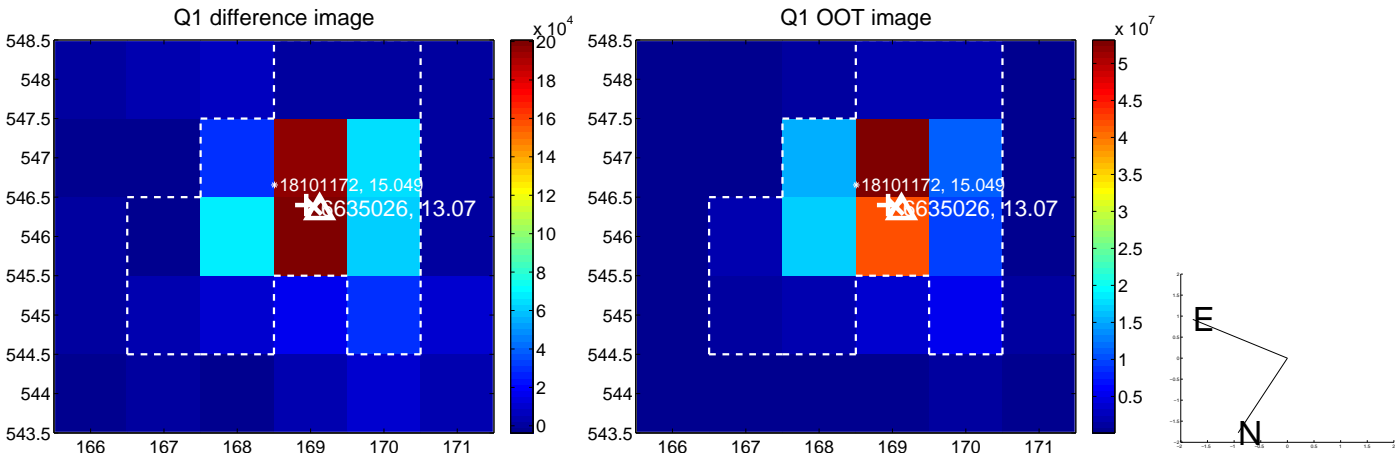
The direct PRF centroid is offset from the target star catalog position by about 0.31 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.518 ± 0.145	3.58	-0.517 ± 0.144	0.023 ± 0.242
PRF-fit source offset from KIC position	0.199 ± 0.188	1.06	-0.174 ± 0.157	0.096 ± 0.271
photometric centroid source offset	0.34 ± 0.15	2.24	0.33 ± 0.16	0.08 ± 0.09

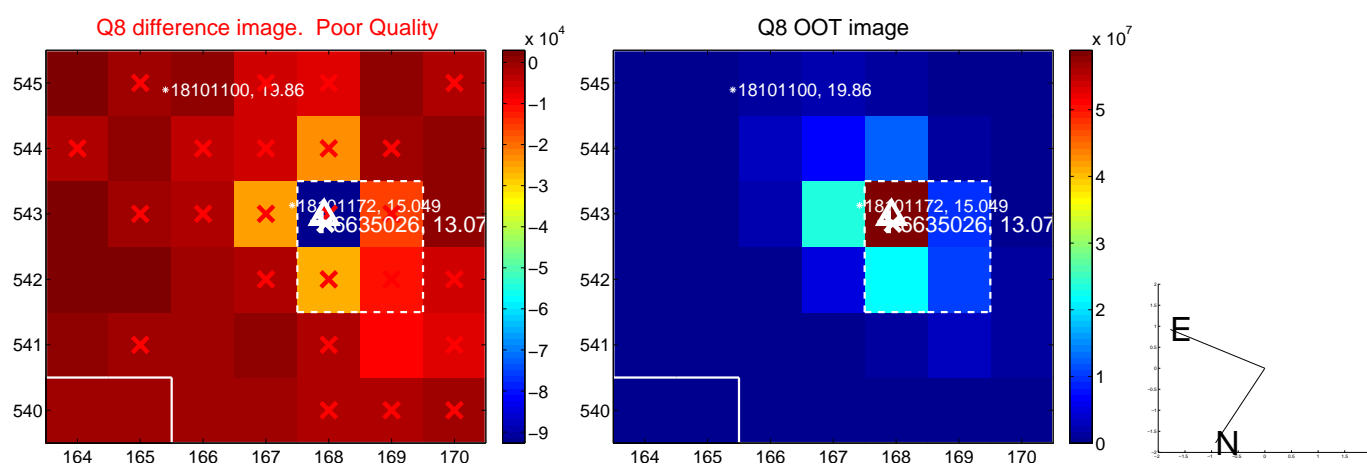
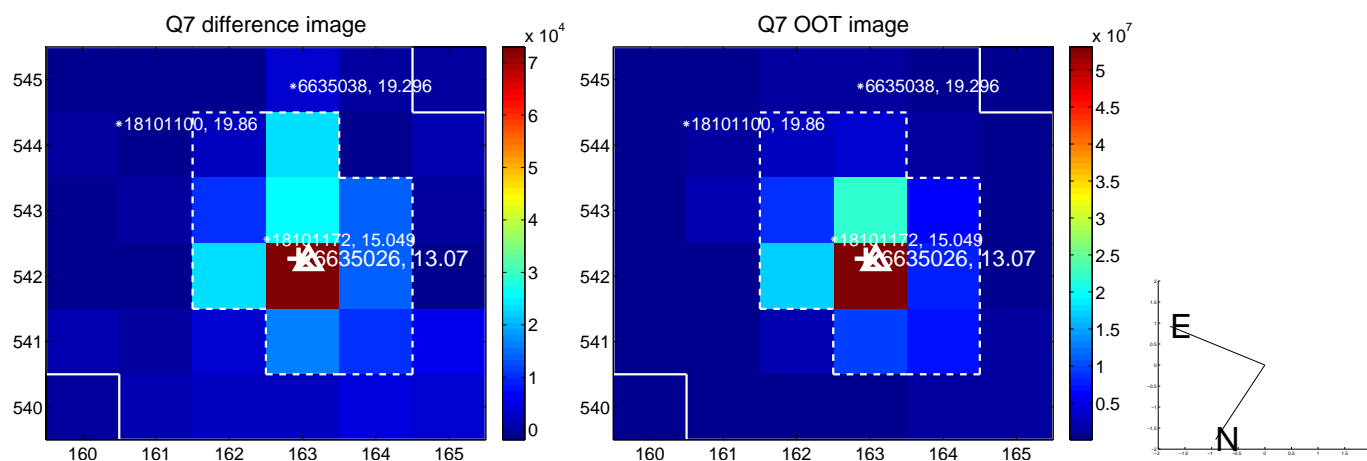
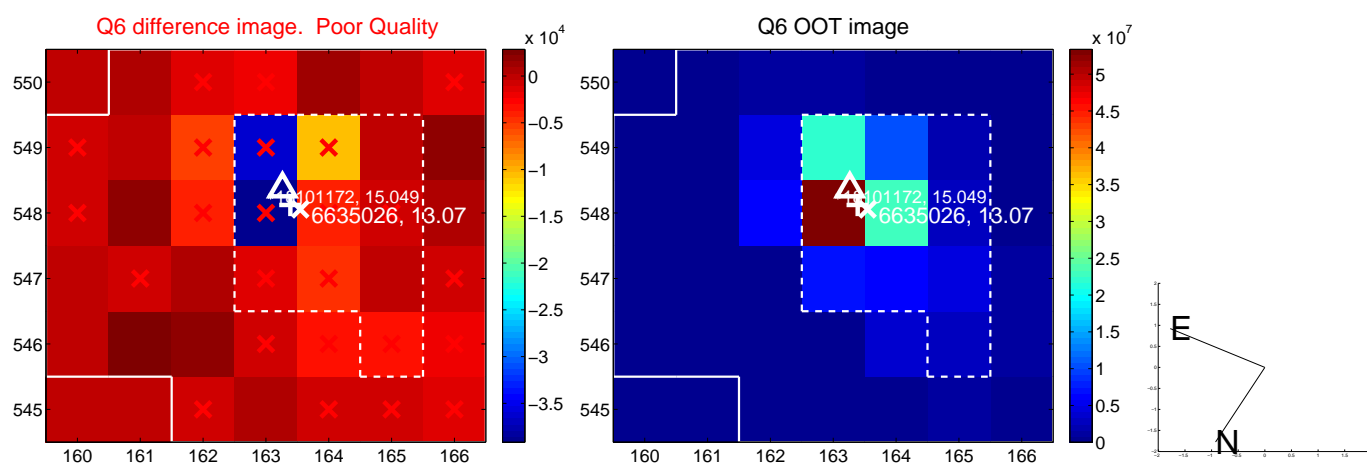
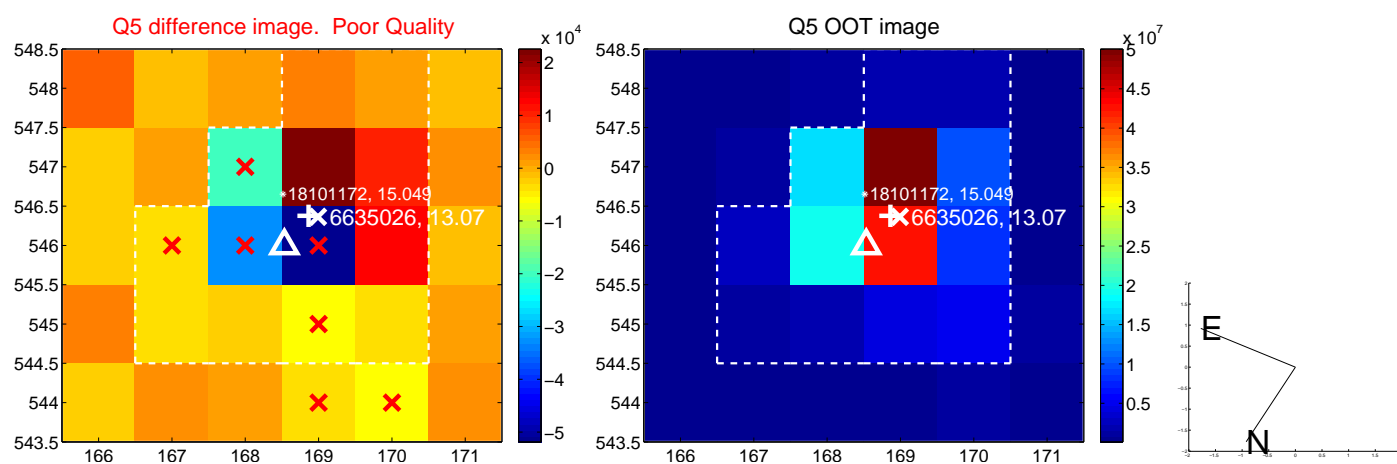


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

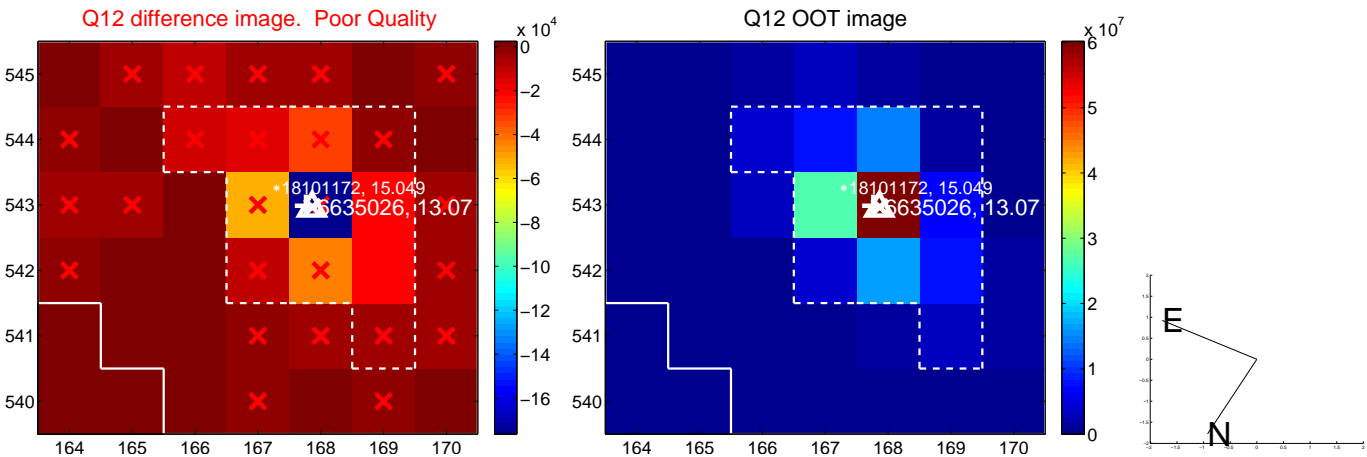
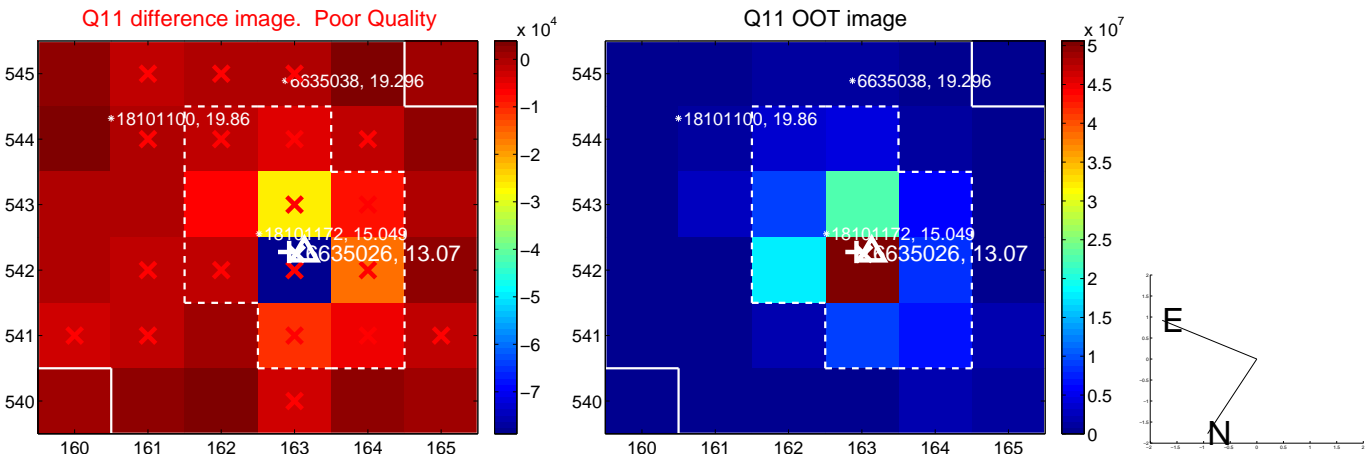
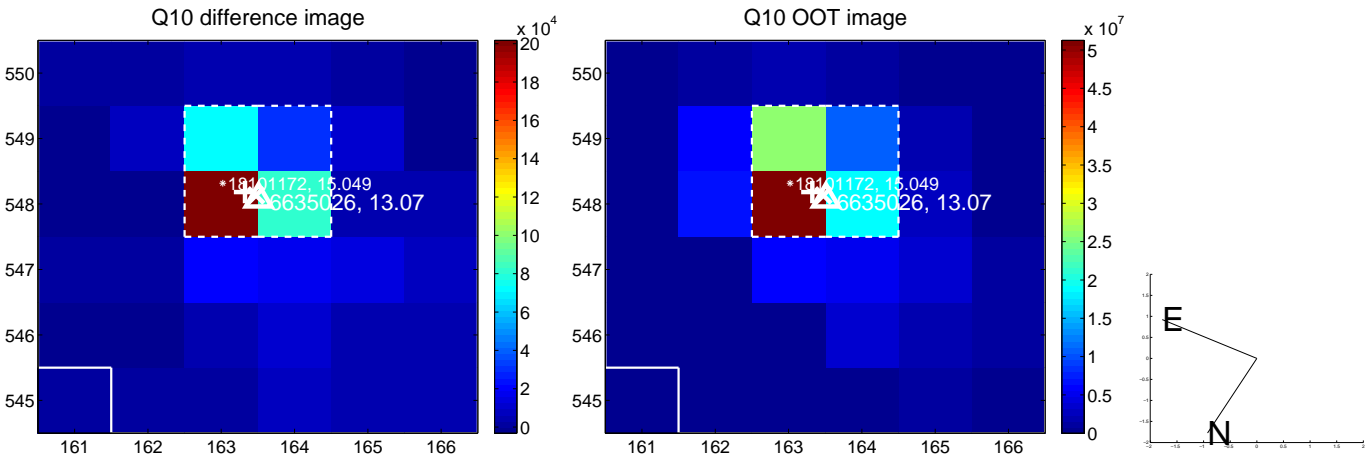
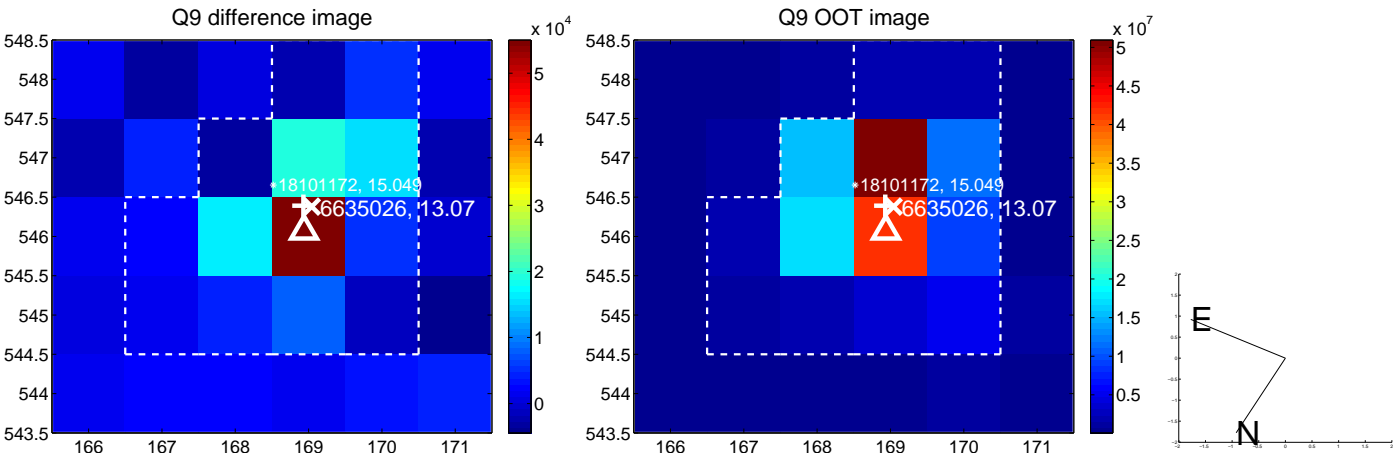
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



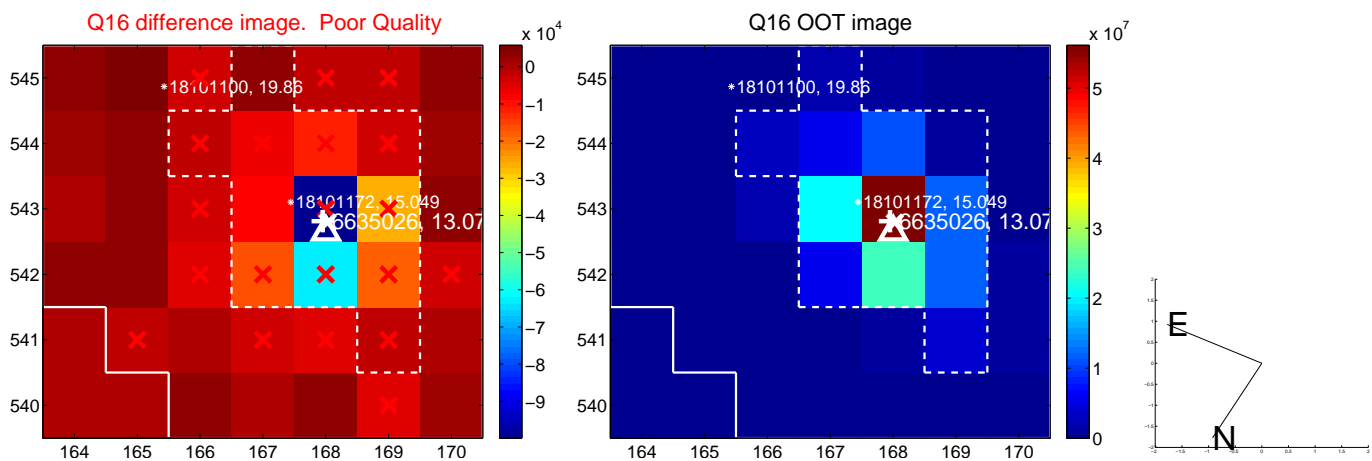
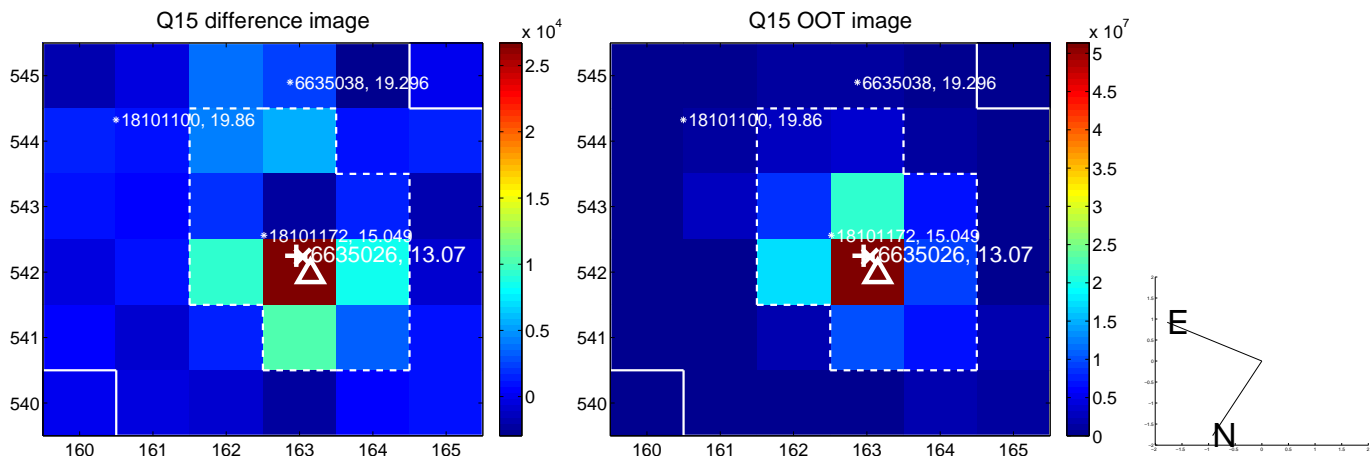
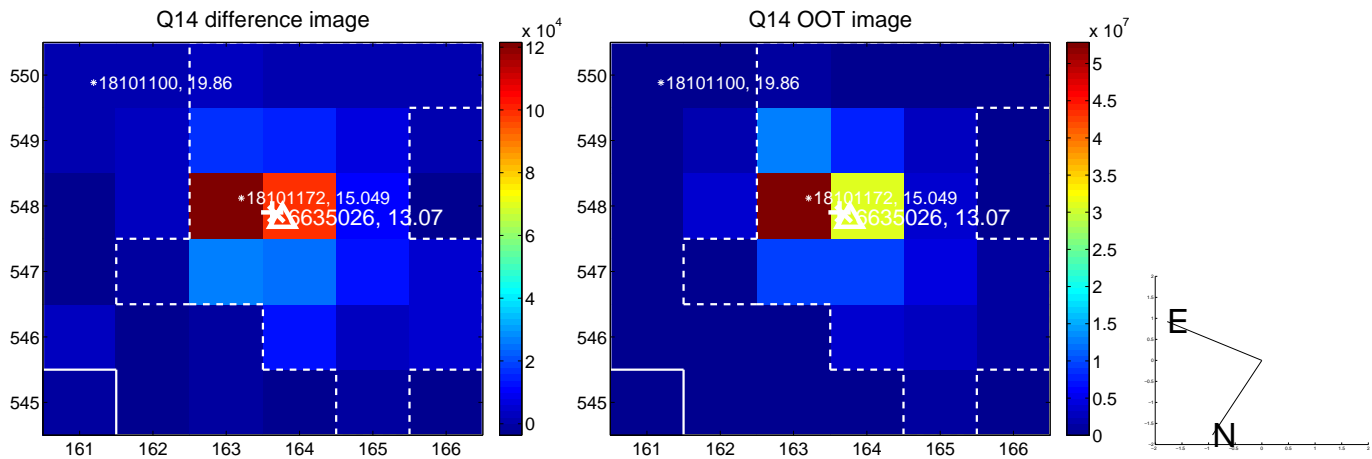
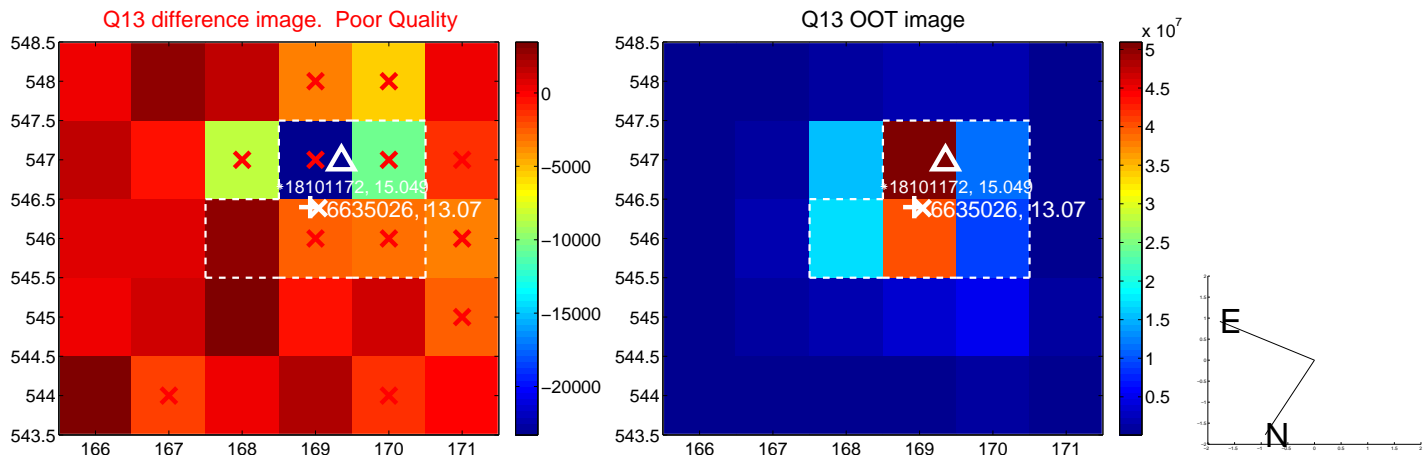
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



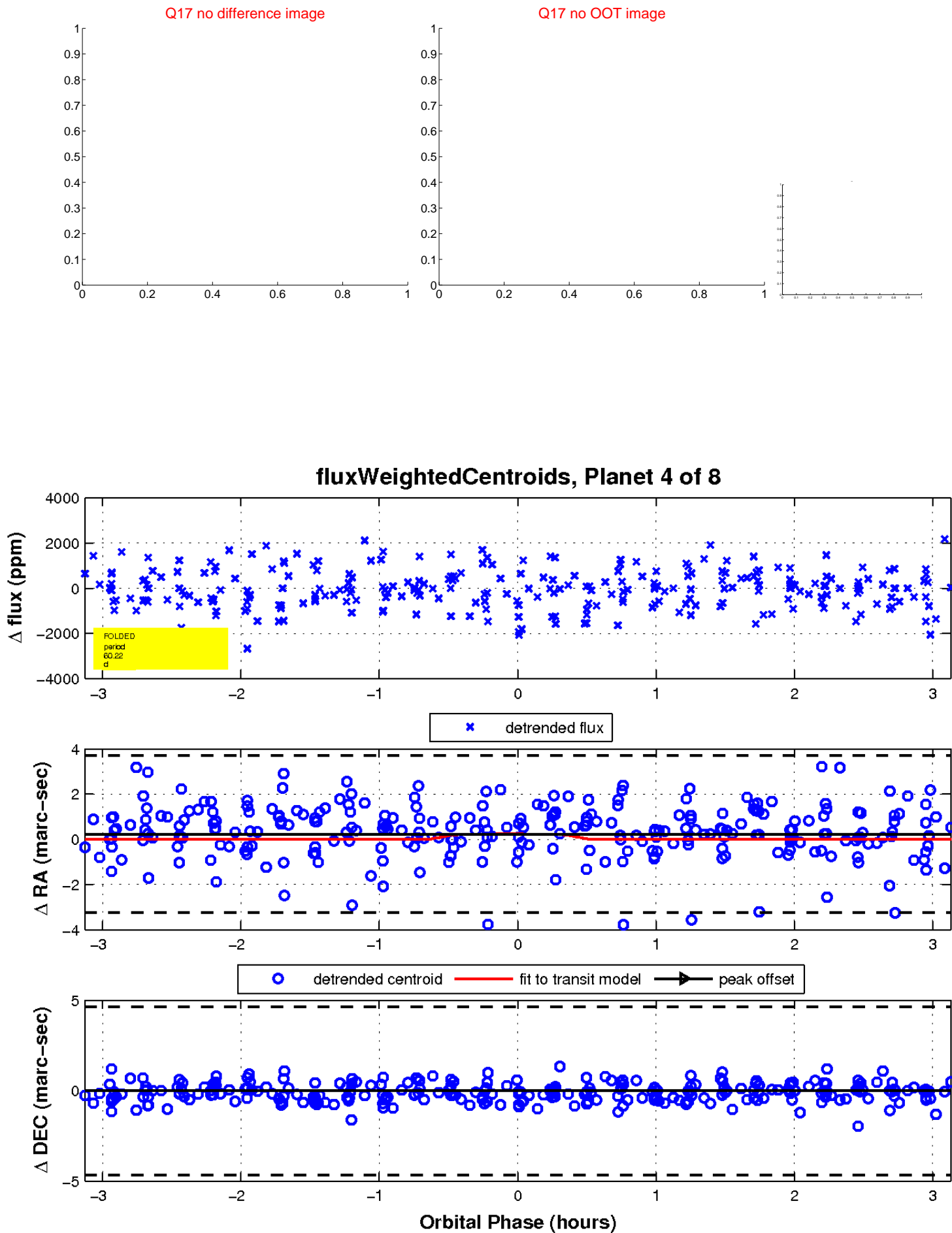
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

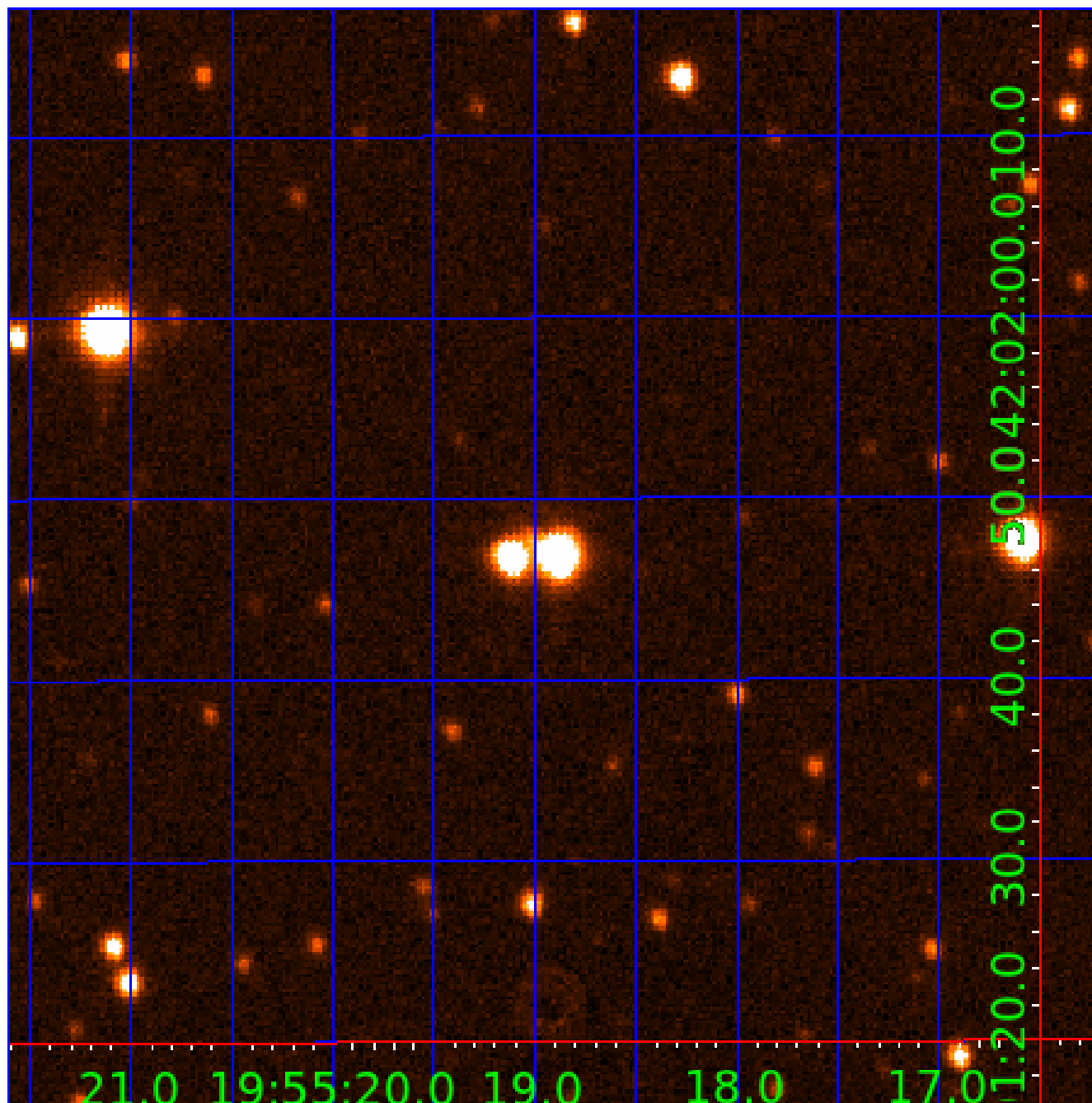


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006635026

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})
006635026-01	OBS	No	0.723688	131.859976	109.1	4.950	17.4	11.8	2.31	7485	2.47	41623.07
006635026-02	OBS	No	140.939510	227.746688	2913.0	2.723	15.6	14.5	2.31	7485	13.93	36.87
006635026-03	OBS	No	38.428035	143.056910	1806.0	4.305	12.5	13.9	2.31	7485	11.32	208.55
006635026-04	OBS	No	60.219450	138.742859	2649.4	1.049	13.6	11.5	2.31	7485	12.25	114.57
006635026-05	OBS	No	26.980444	145.913094	1970.5	1.300	11.3	11.5	2.31	7485	10.74	334.20
006635026-06	OBS	No	36.206055	155.848699	1444.1	3.245	9.8	9.4	2.31	7485	13.34	225.78
006635026-07	OBS	No	135.464597	151.815020	1424.1	8.019	9.2	9.7	2.31	7485	9.36	38.87
006635026-08	OBS	No	80.986429	157.236489	1366.0	11.106	9.4	8.6	2.31	7485	8.86	77.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006635026-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_KIC_POS
006635026-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
006635026-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_KIC_POS
006635026-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

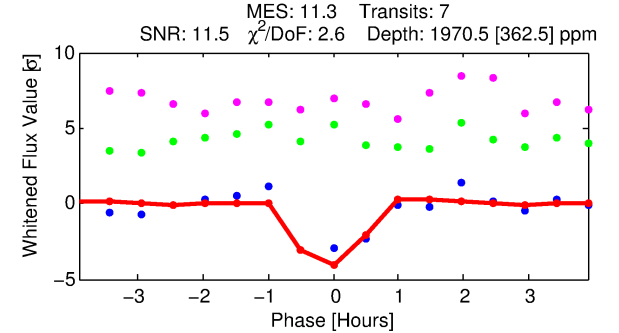
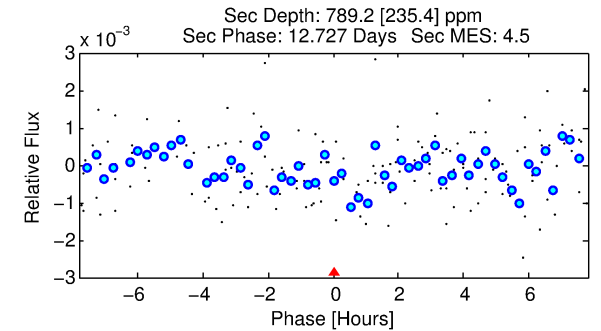
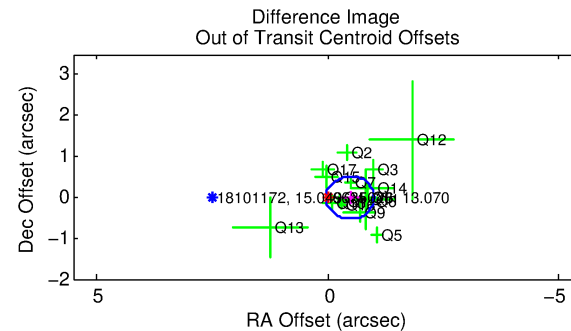
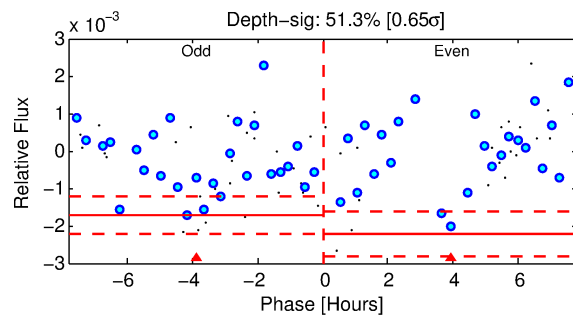
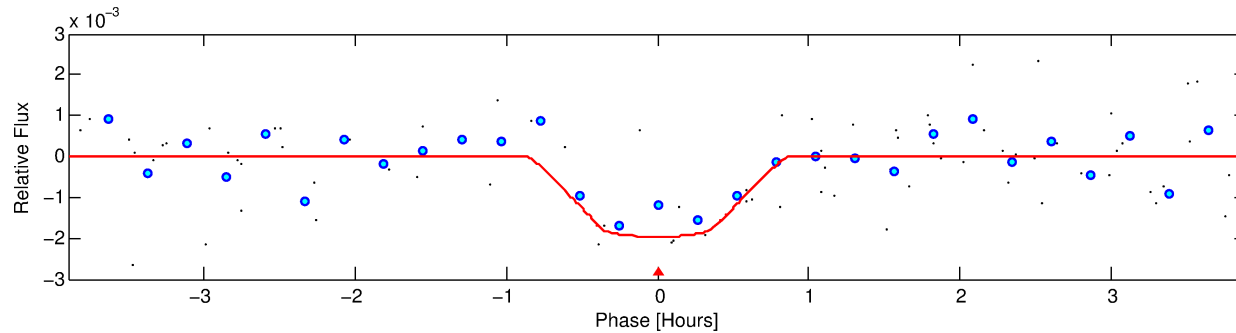
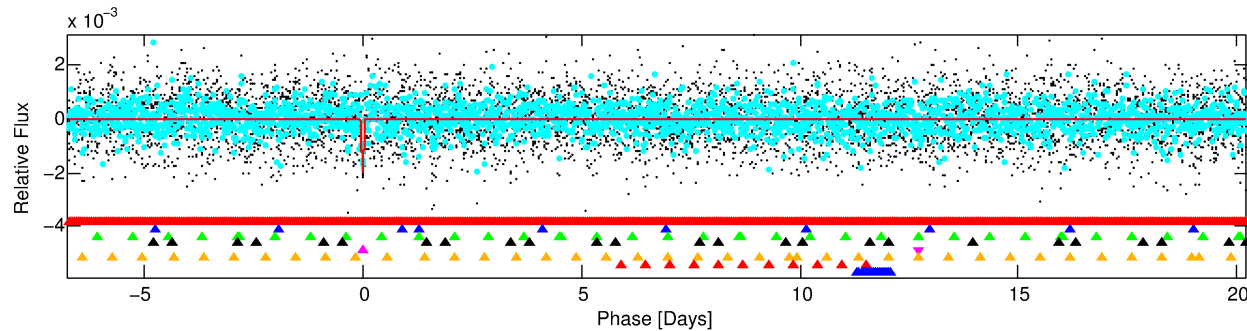
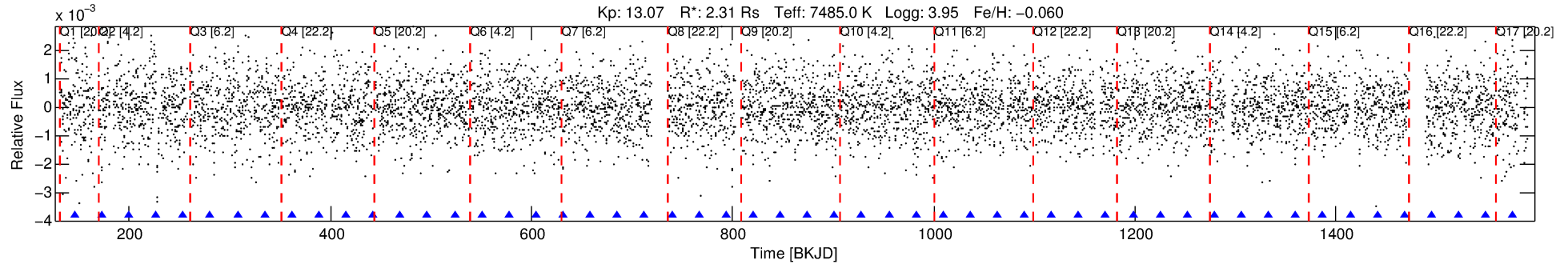
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006635026-05

No Significant Match Found

DV One-Page Summary

KIC: 6635026 Candidate: 5 of 8 Period: 26.980 d



DV Fit Results:

Period = 26.98044 [0.00021] d
Epoch = 145.9131 [0.0056] BKJD
Rp/R* = 0.0426 [0.1596]
a/R* = 142.54 [3246.93]
b = 0.53 [31.47]
Seff = 334.20 [163.86]
Teq = 1090 [134] K
Rp = 10.74 [40.39] Re
a = 0.2119 [0.0628] AU
Ag = 169.13 [1271.04] [0.13 σ]
Teffp = 6079 [11403] K [0.44 σ]

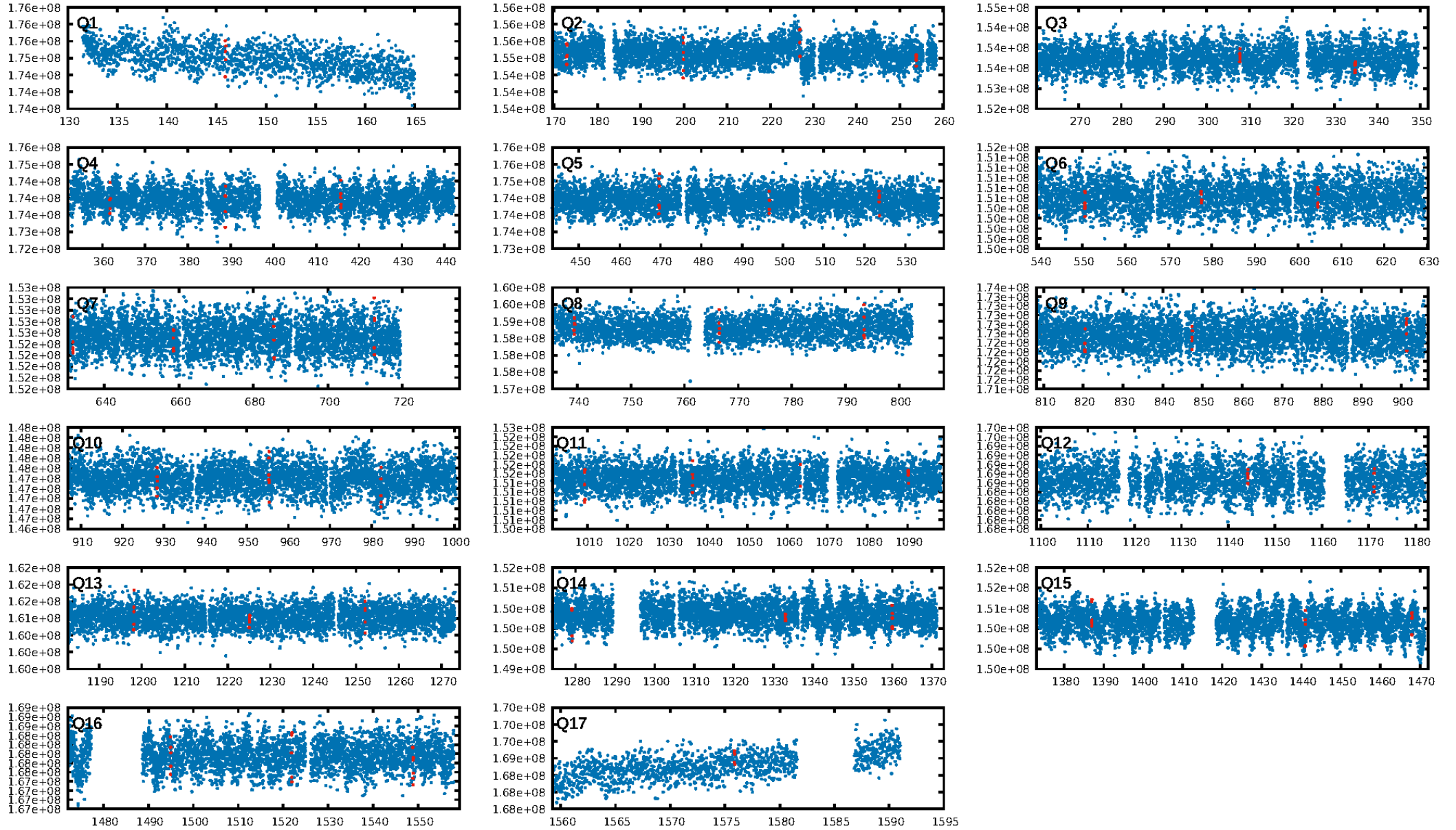
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [123.11 σ]
LongPeriod-sig: 100.0% [63.33 σ]
ModelChiSquare2-sig: 2.1%
ModelChiSquareGof-sig: 90.3%
Bootstrap-pfa: 4.00e-10
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: -8.454
Centroid-sig: 48.6%
Centroid-so: 0.324 arcsec [2.59 σ]
OotOffset-rm: 0.491 arcsec [2.83 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.059 arcsec [0.29 σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.59 [10/17]
DiffImageOverlap-fno: 0.18 [3/17]

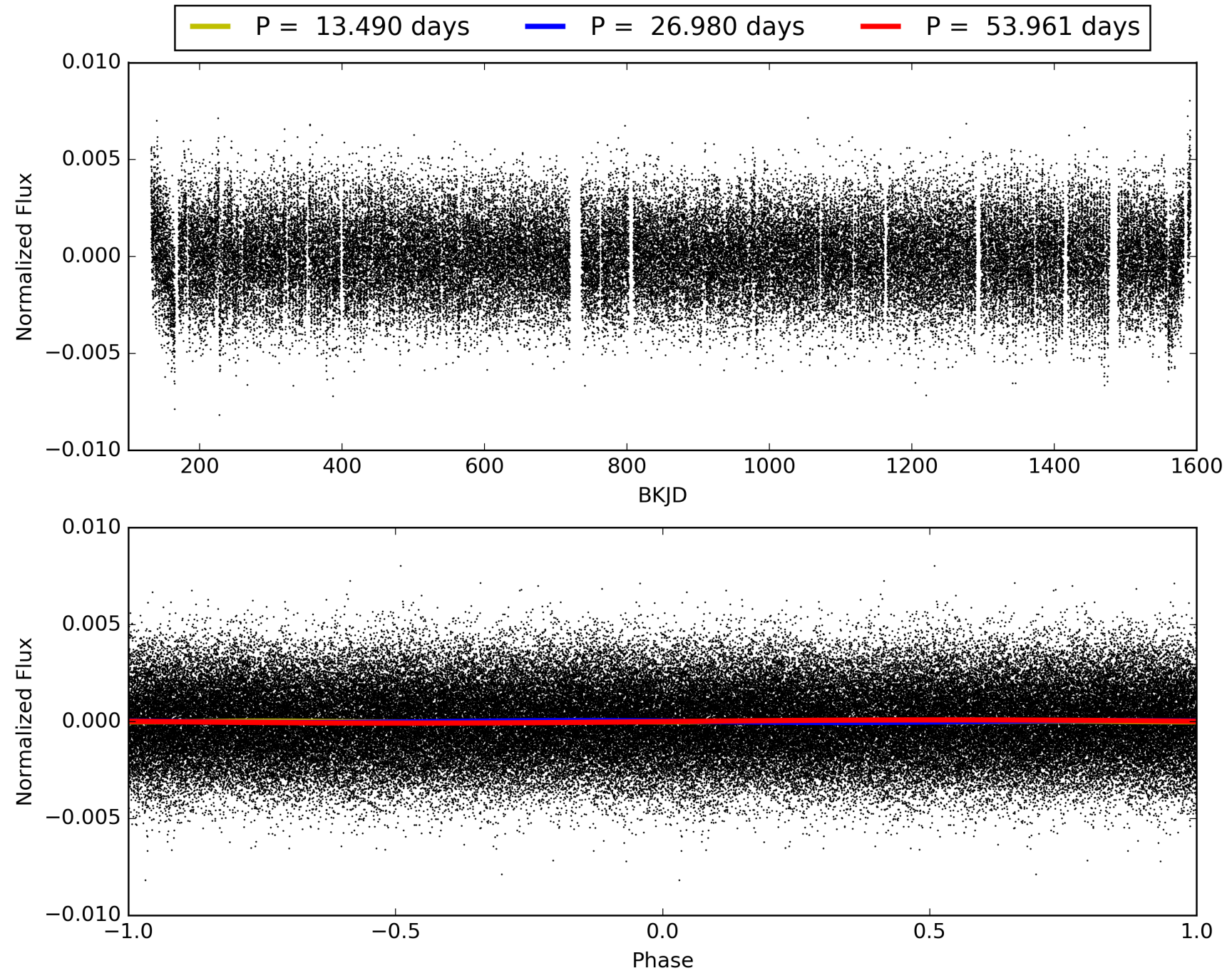
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:19:52 Z

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

TCE 006635026-05, PDC Light Curves

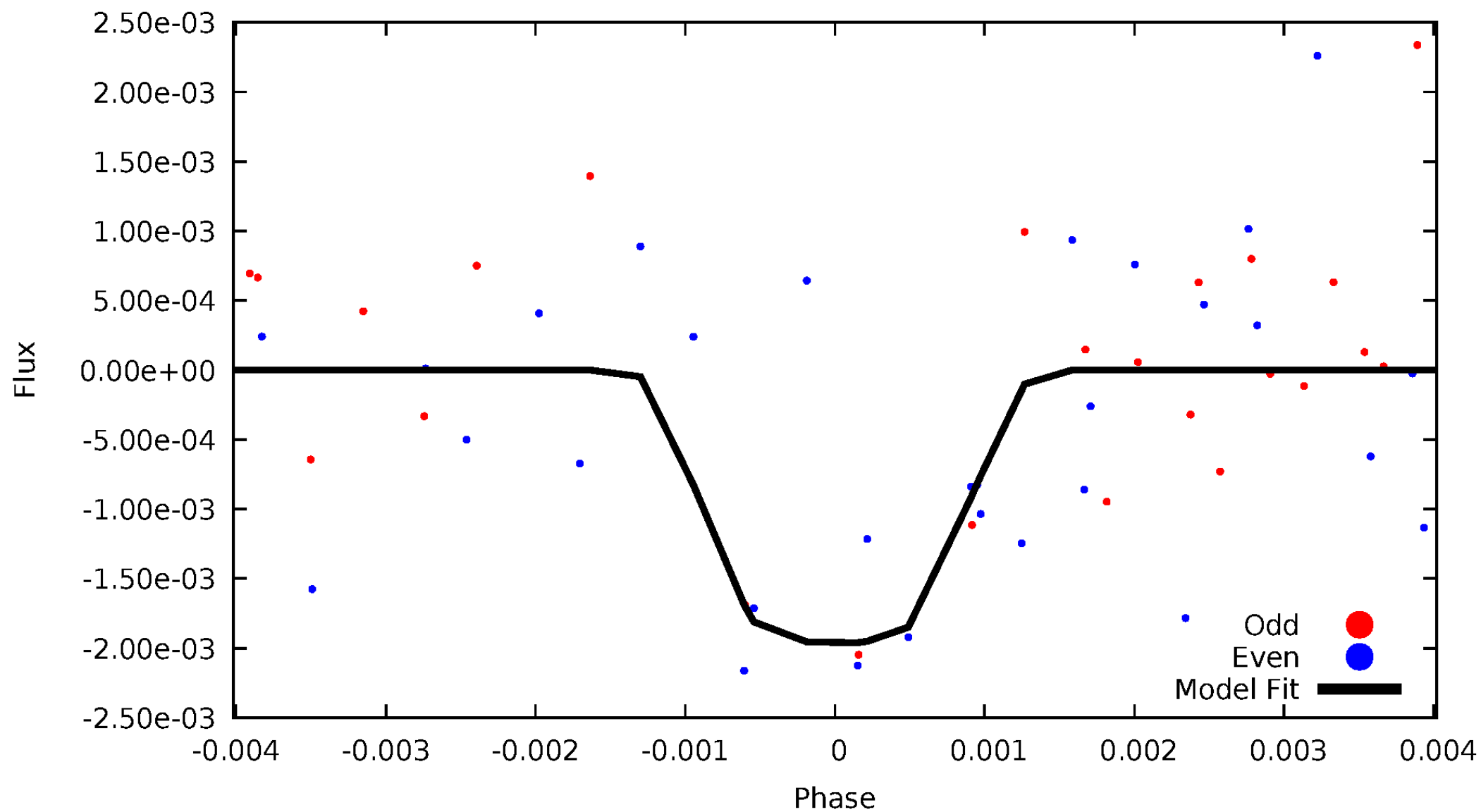


TCE 006635026-05



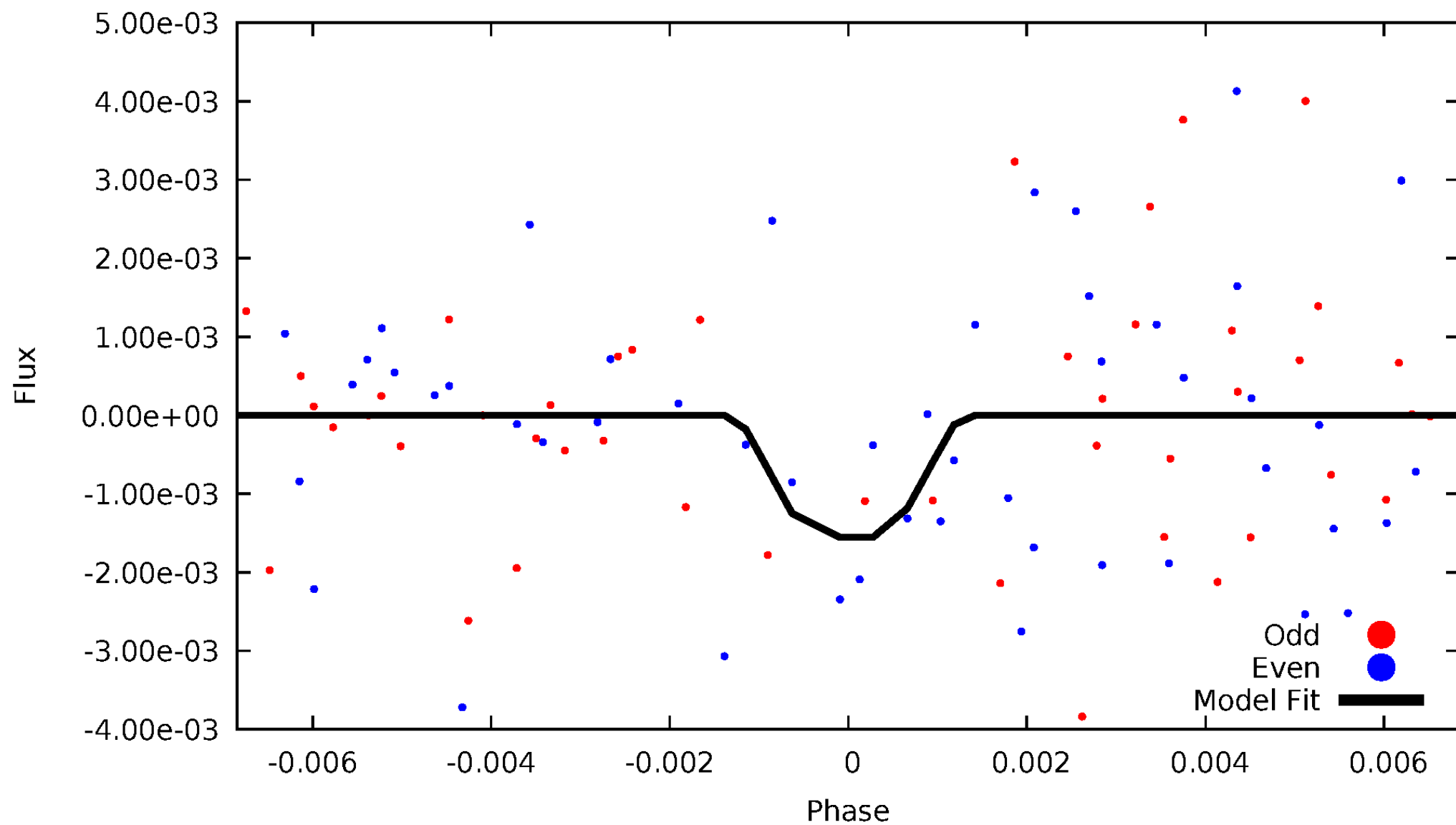
DV Odd/Even

TCE 006635026-05



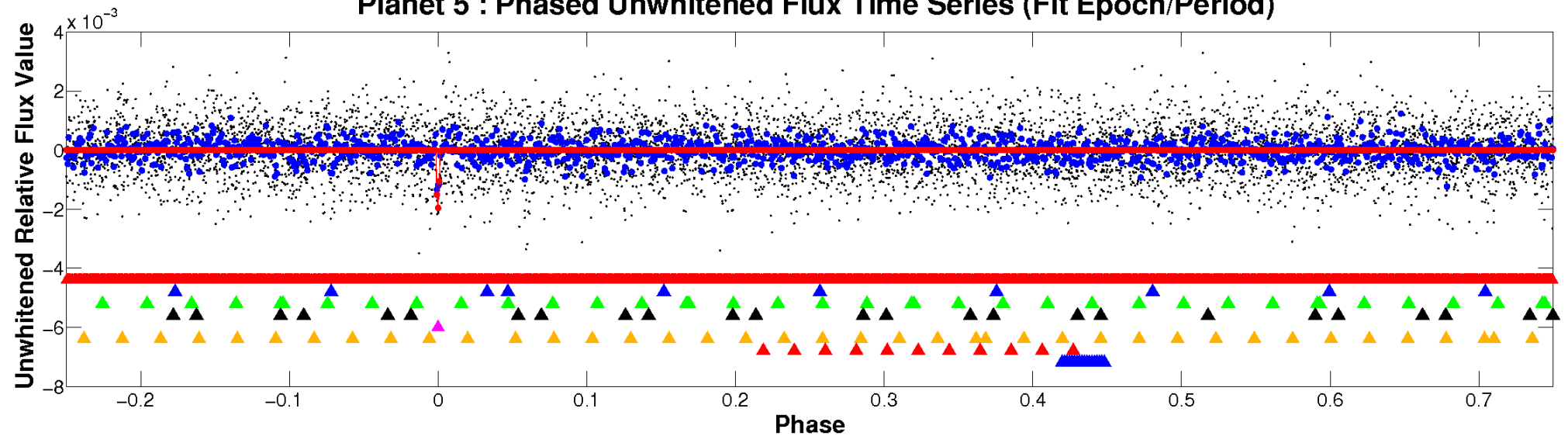
ALT Odd/Even

TCE 006635026-05

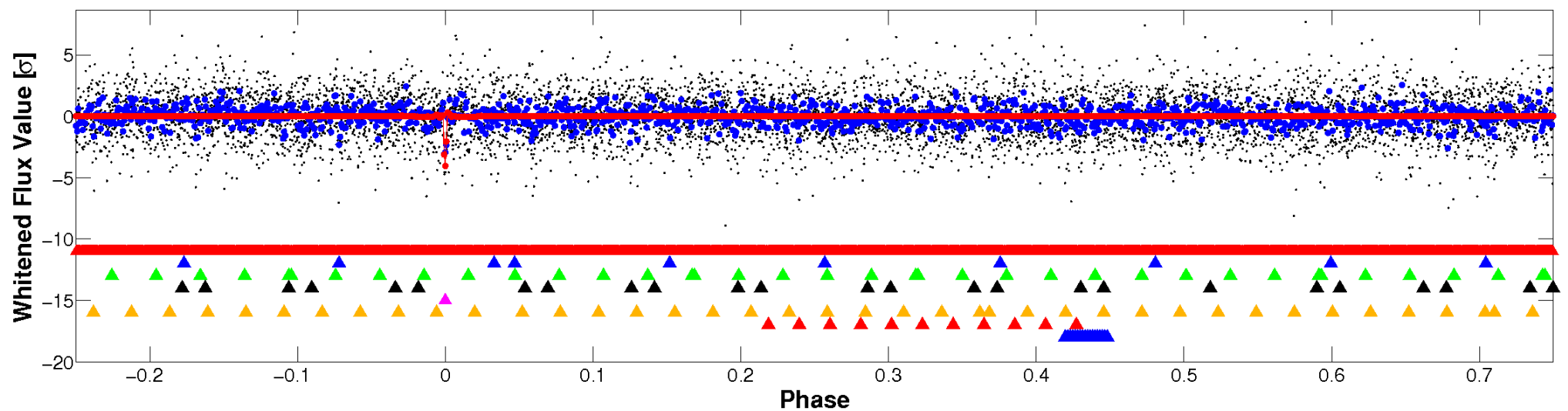


Non-Whitened Vs. Whitened Light Curve

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

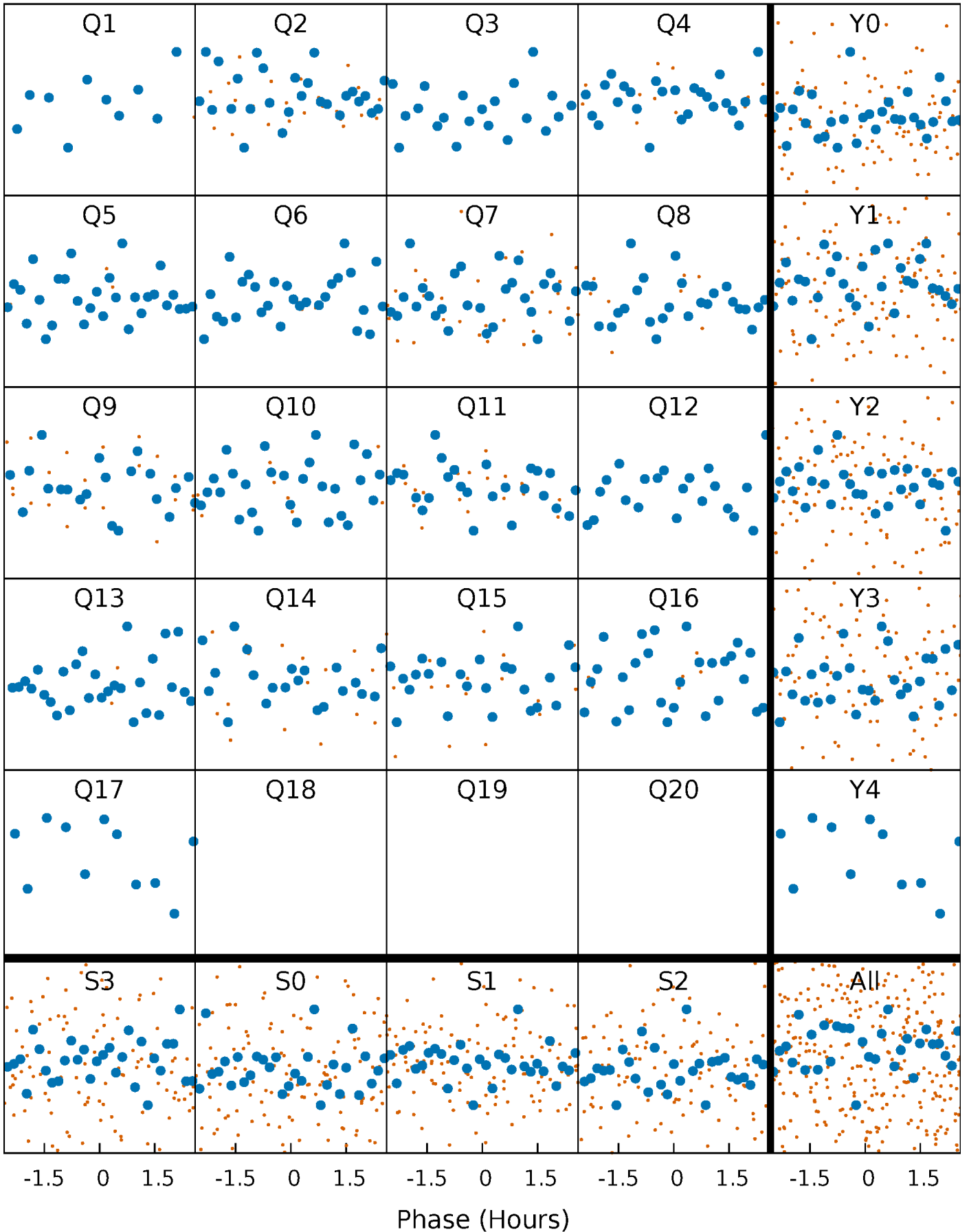


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



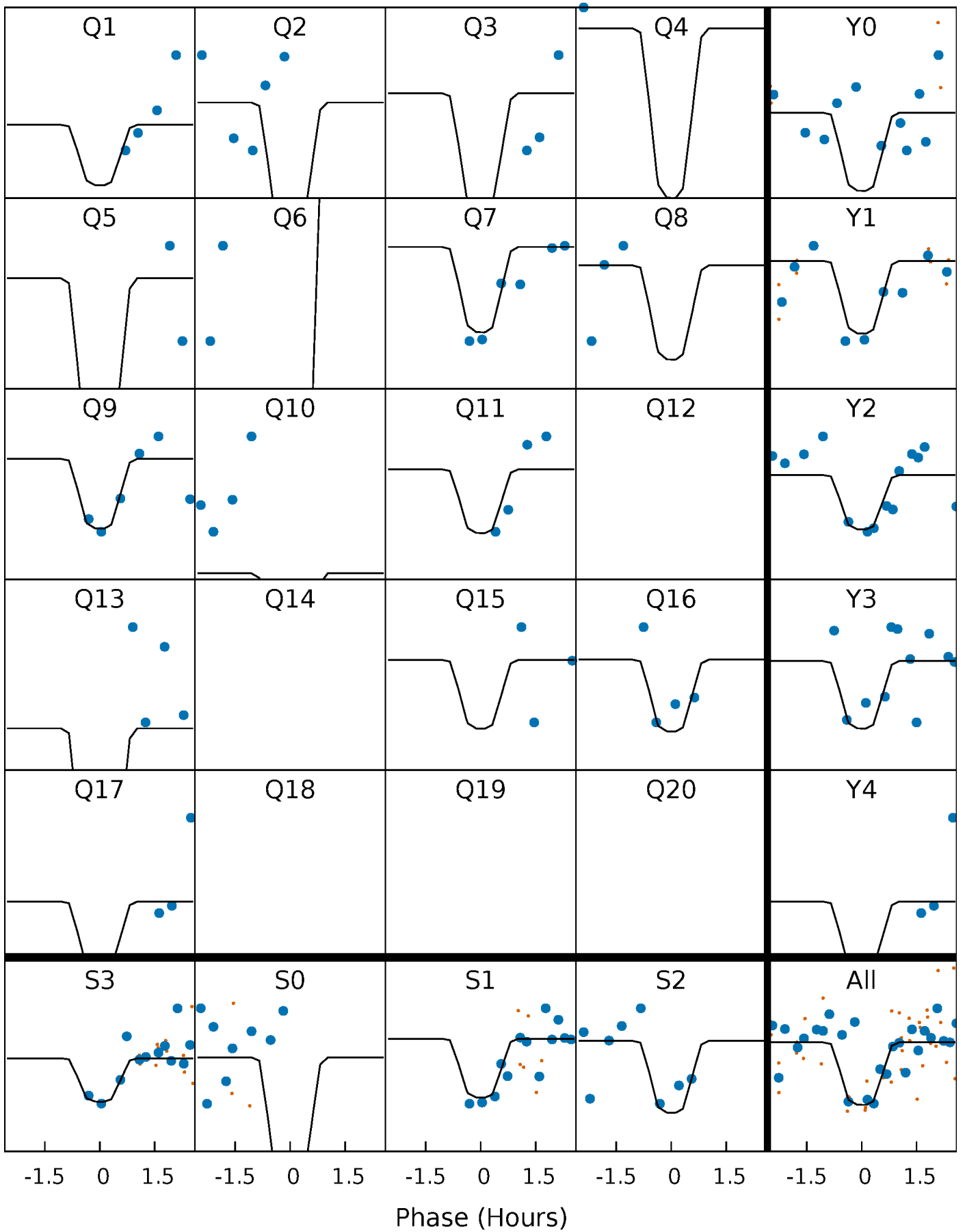
PDC Quarter-Phased Transit Curves

TCE 006635026-05 $P = 26.980444$ Days $T_0 = 145.913094$ (BKJD)



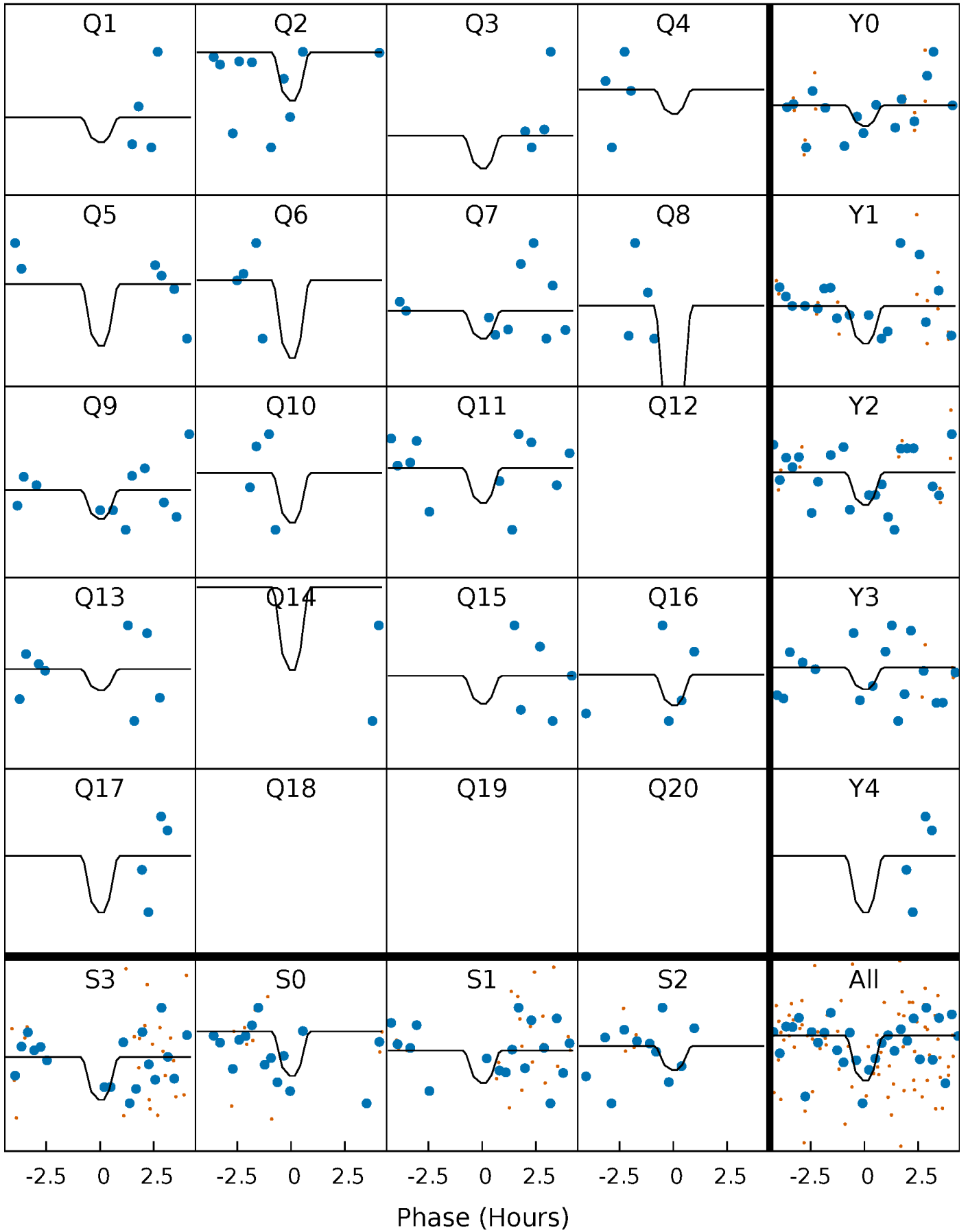
DV Quarter-Phased Transit Curves

TCE 006635026-05 P= 26.980444 Days $T_0=145.913094$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

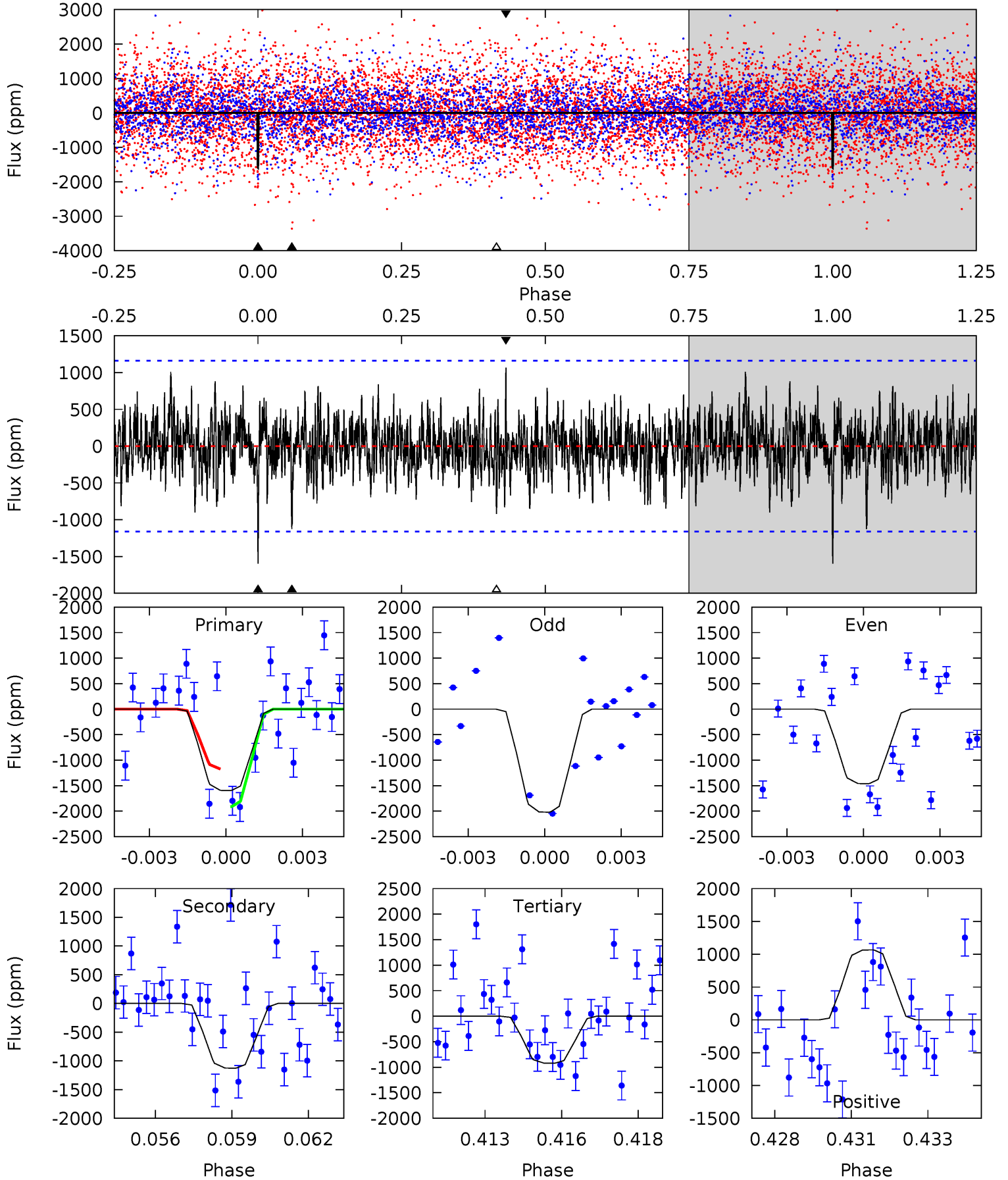
TCE 006635026-05 P= 26.980811 Days $T_0=145.882672$ (BKJD)



DV Model-Shift Uniqueness Test

006635026-05, P = 26.980444 Days, E = 118.932650 Days

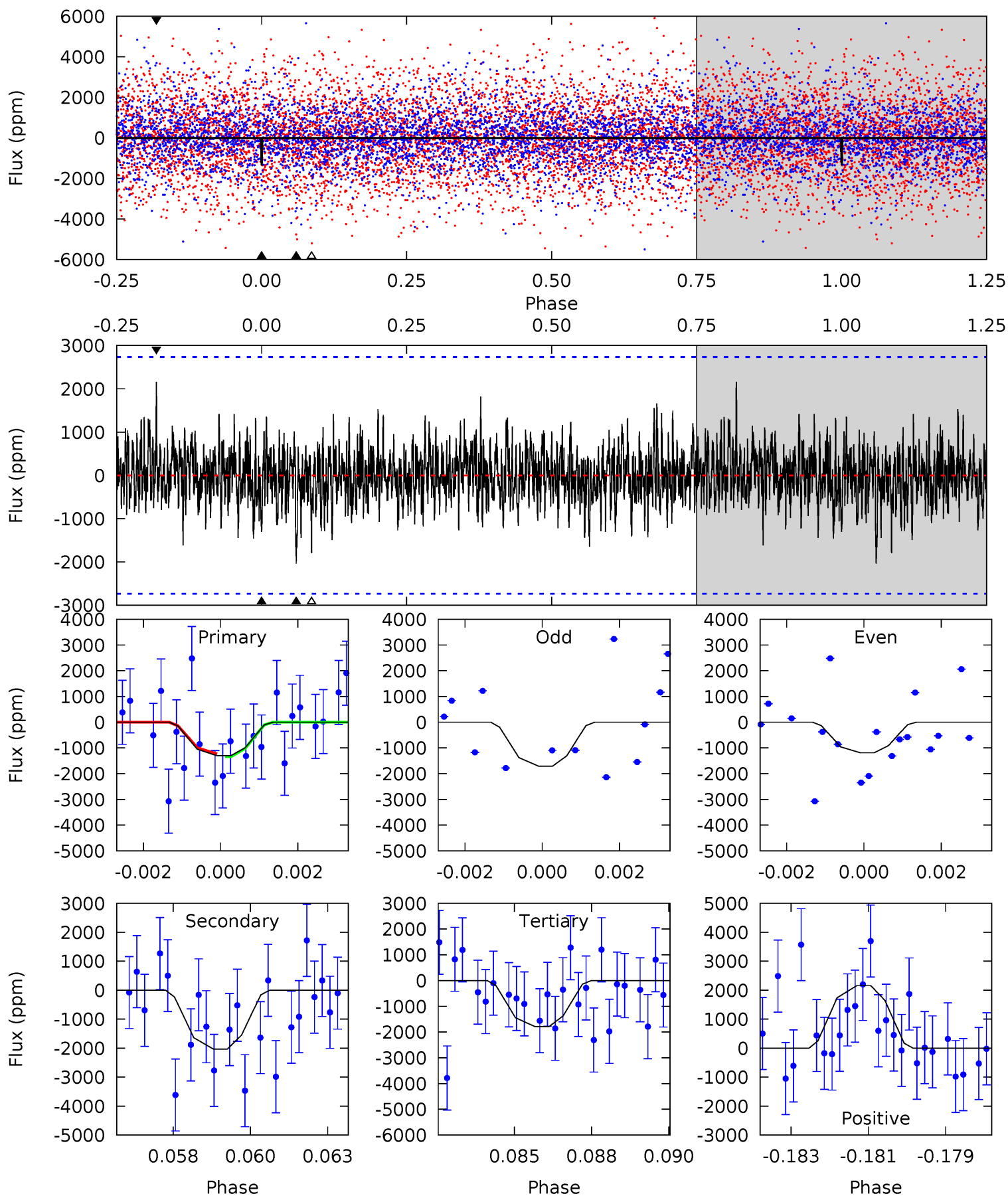
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.26	5.13	4.19	4.85	5.28	3.02	1.33	3.07	2.41	0.94	0.28	1.04	0.72	0.40	1.62



Alt Model-Shift Uniqueness Test

006635026-05, P = 26.980811 Days, E = 118.901861 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.54	3.96	3.49	4.20	5.32	3.08	1.02	-0.95	-1.67	0.47	-0.24	0.41	0.94	0.52	0.09



Stellar Parameters For KIC 006635026

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7485^{+209}_{-340}	$3.952^{+0.260}_{-0.140}$	$-0.060^{+0.200}_{-0.400}$	$2.310^{+0.507}_{-0.760}$	$1.743^{+0.195}_{-0.363}$	$0.199^{+0.337}_{-0.084}$
	+3%/-5%	+7%/-4%	+333%/-667%	+22%/-33%	+11%/-21%	+169%/-42%
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 006635026-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1128 ± 220	$29.39^{+31.05}_{-20.18}$	1503^{+115}_{-140}	4121^{+2614}_{-899}	31^{+277}_{-24}
Alt.	-2035 ± 514	$29.90^{+29.97}_{-19.30}$	1503^{+107}_{-131}	4565^{+2826}_{-1021}	54^{+368}_{-41}

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

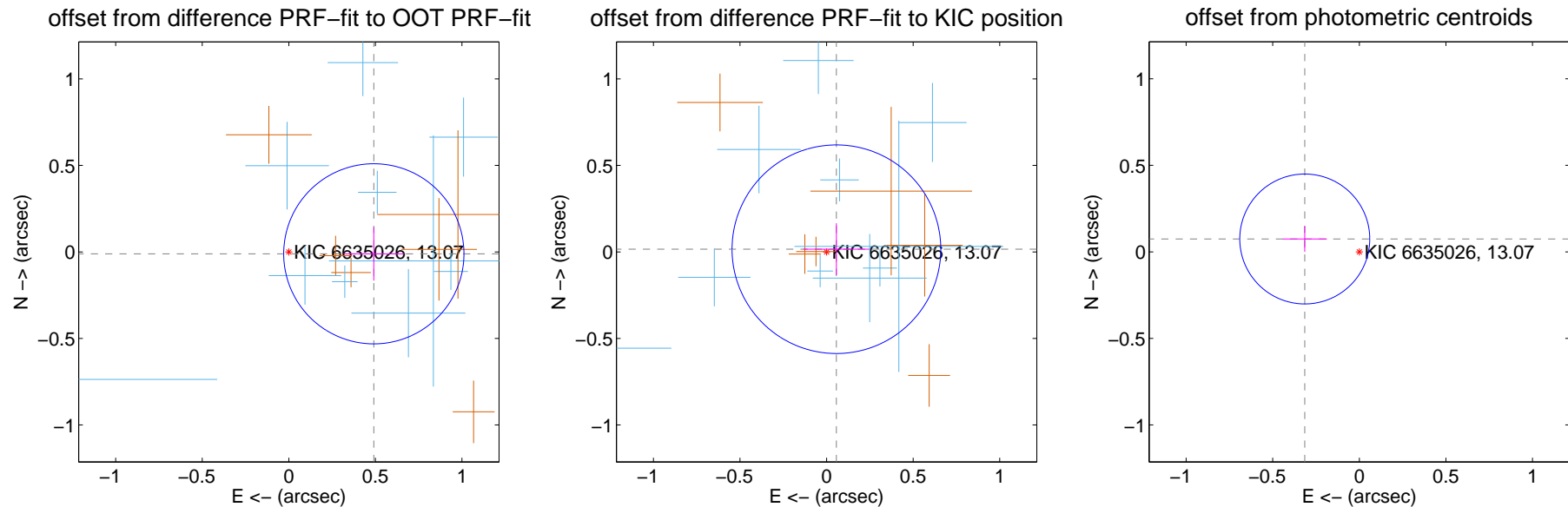
DV Centroid Data

Supplemental centroid analysis for 006635026-05. Kepler magnitude: 13.07. Transit SNR 11.52

There are 10 quarters with good PRF difference image offsets

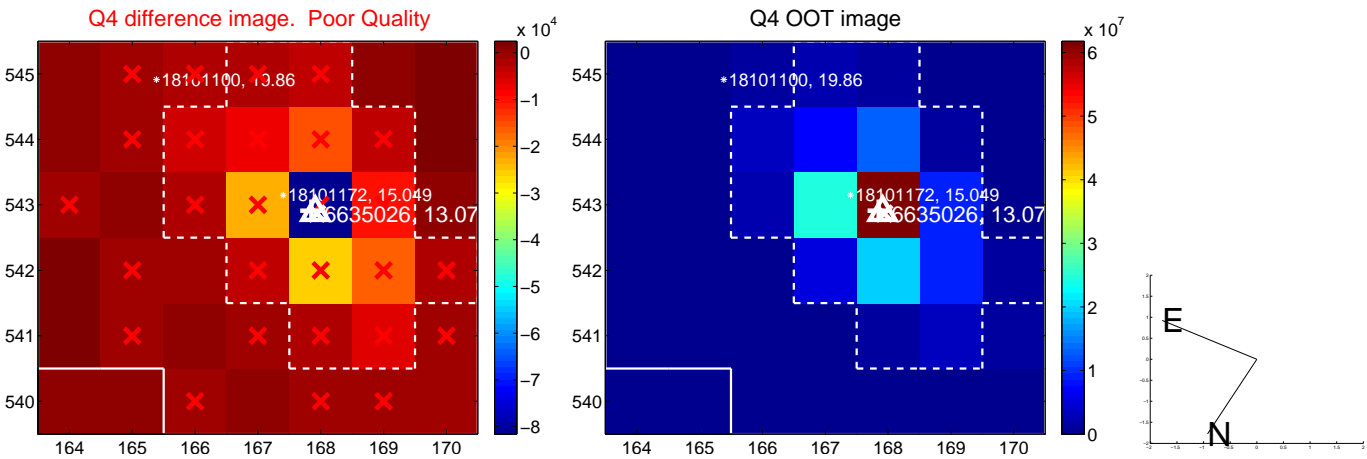
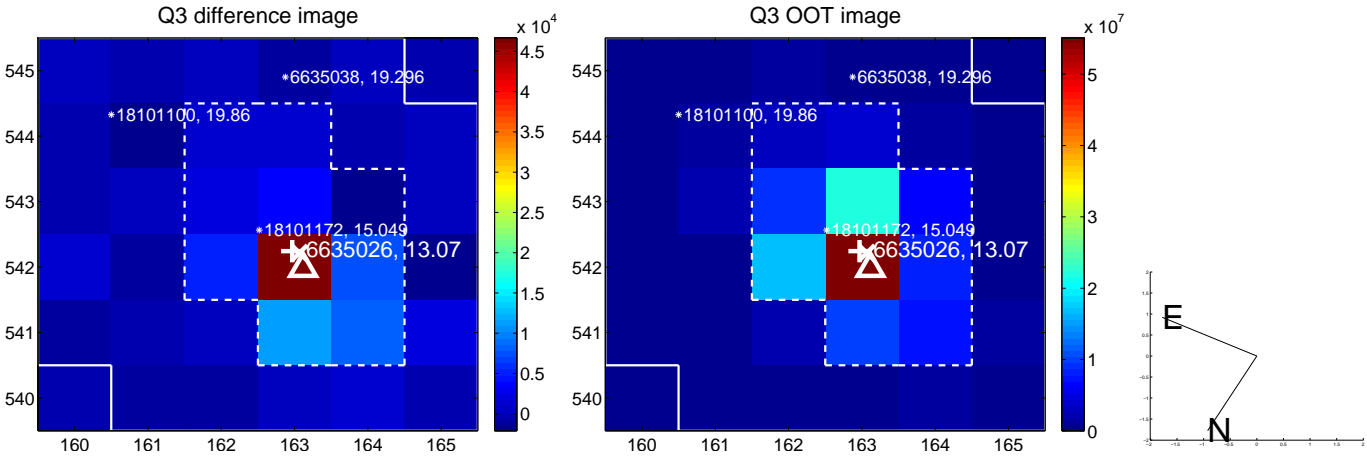
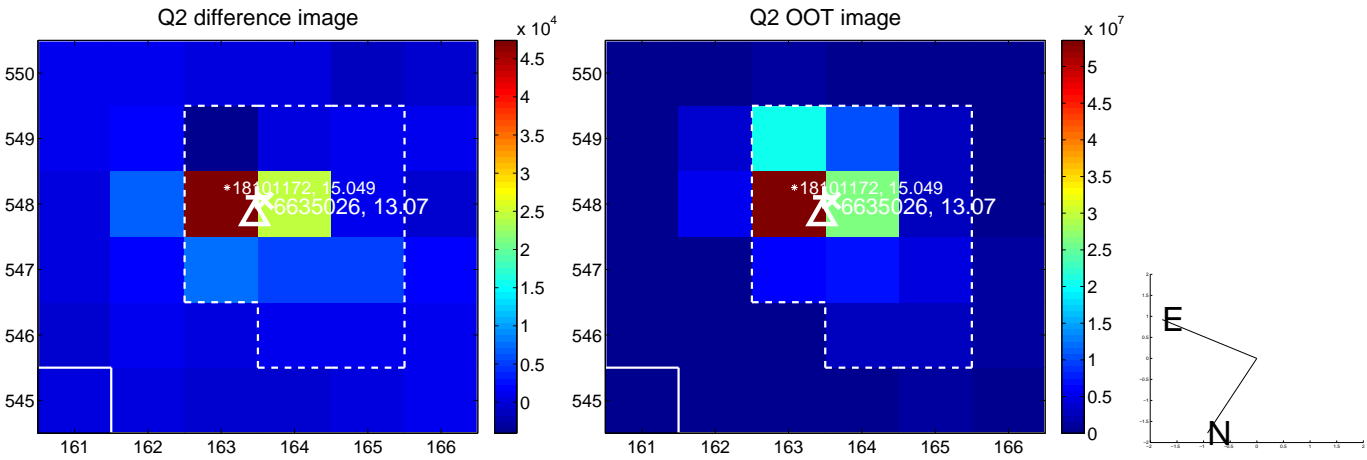
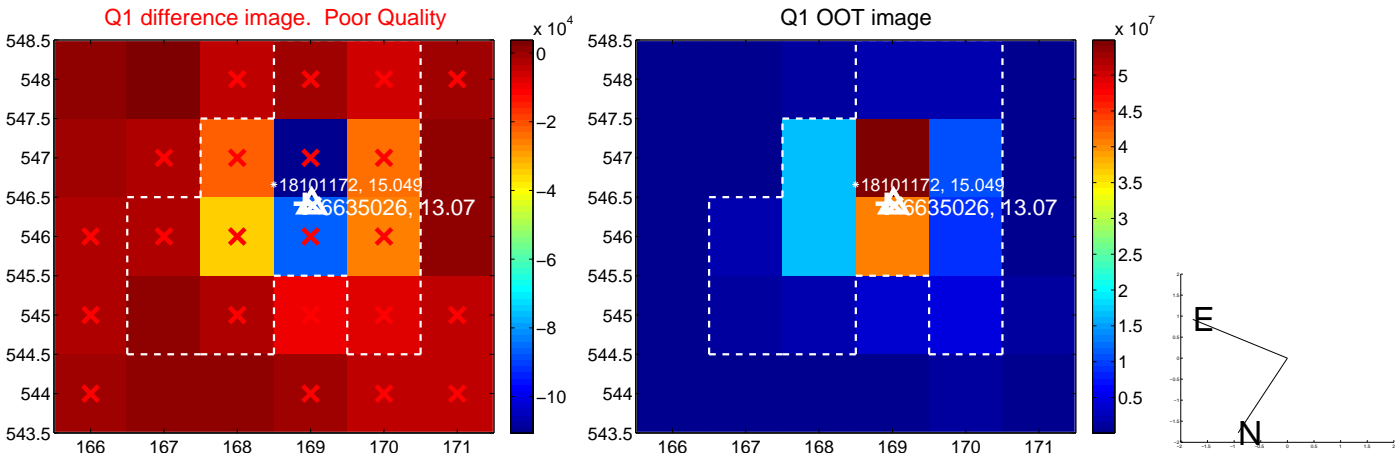
The direct PRF centroid is offset from the target star catalog position by about 0.53 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.491 ± 0.174	2.83	-0.491 ± 0.174	-0.011 ± 0.155
PRF-fit source offset from KIC position	0.059 ± 0.201	0.29	-0.057 ± 0.192	0.016 ± 0.150
photometric centroid source offset	0.32 ± 0.13	2.59	0.31 ± 0.13	0.07 ± 0.07

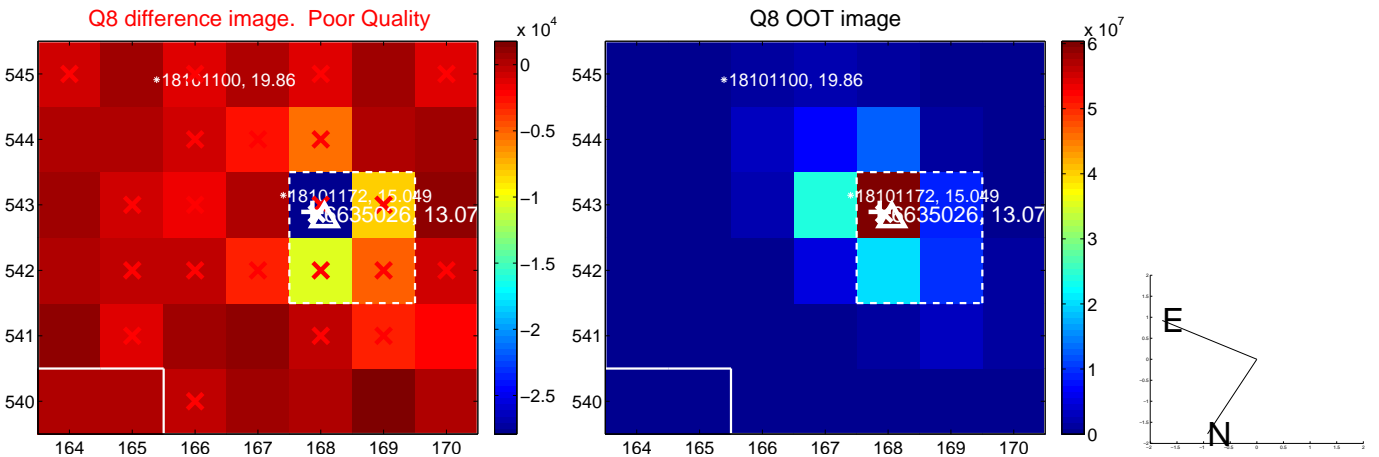
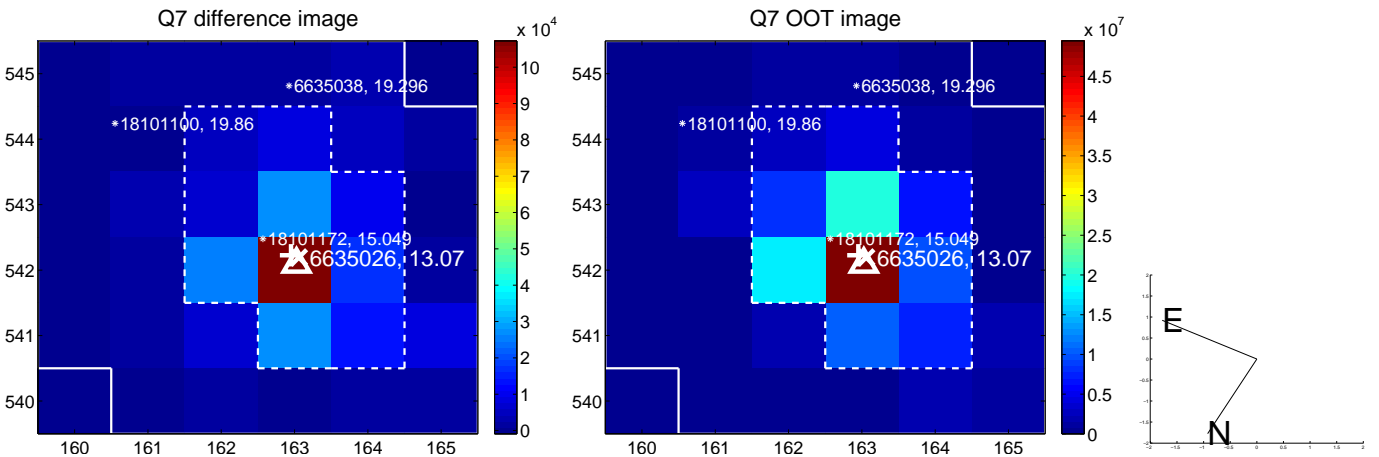
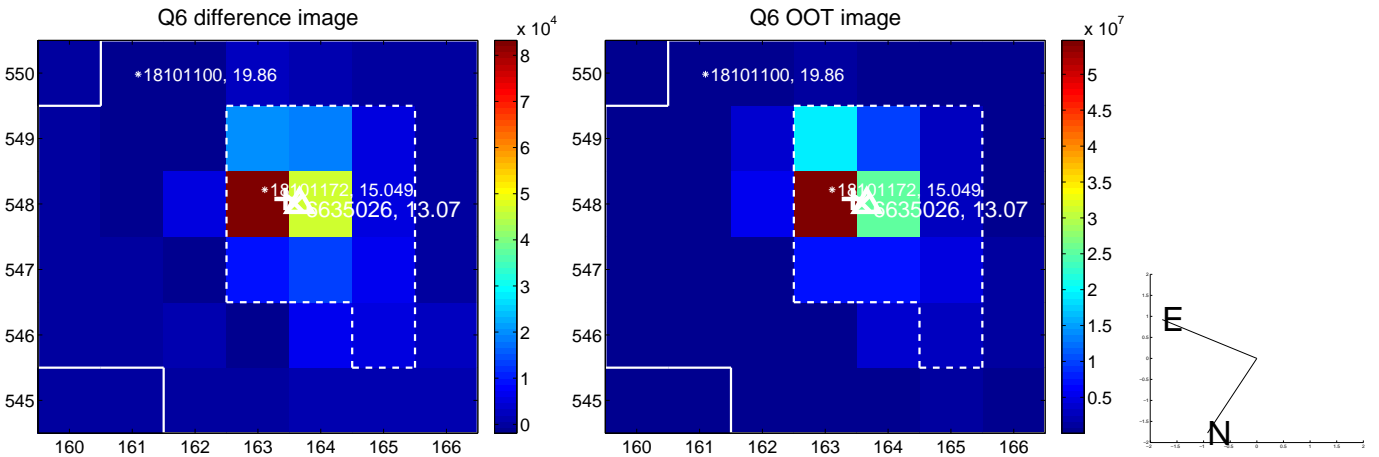
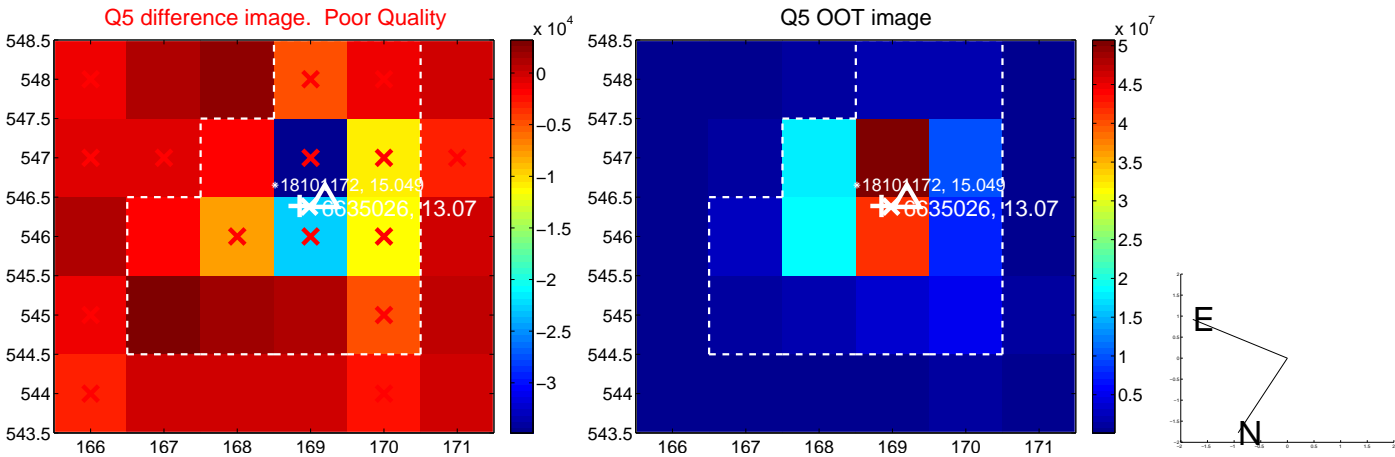


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

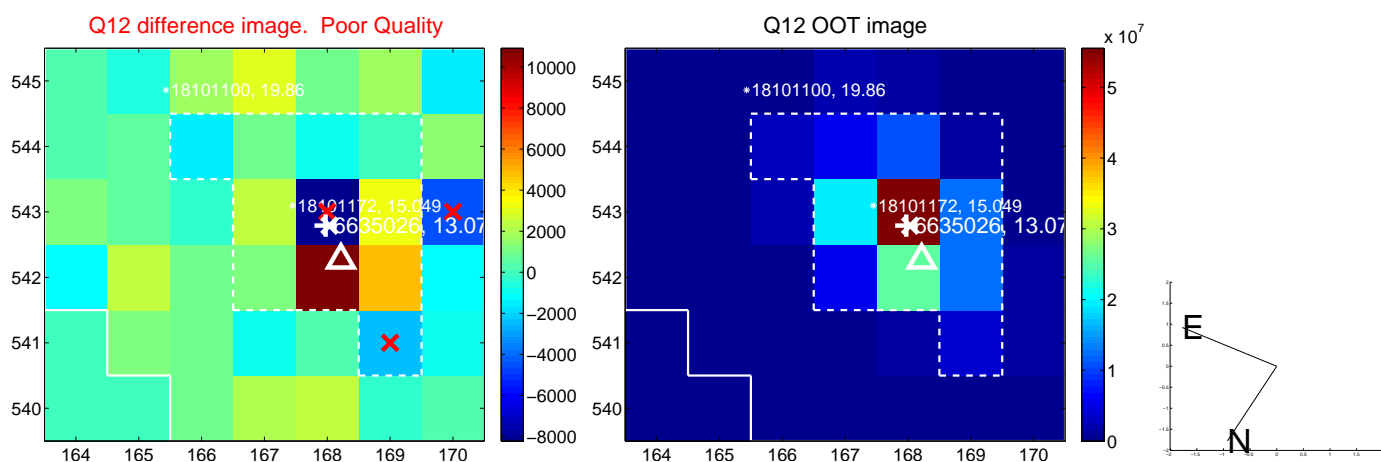
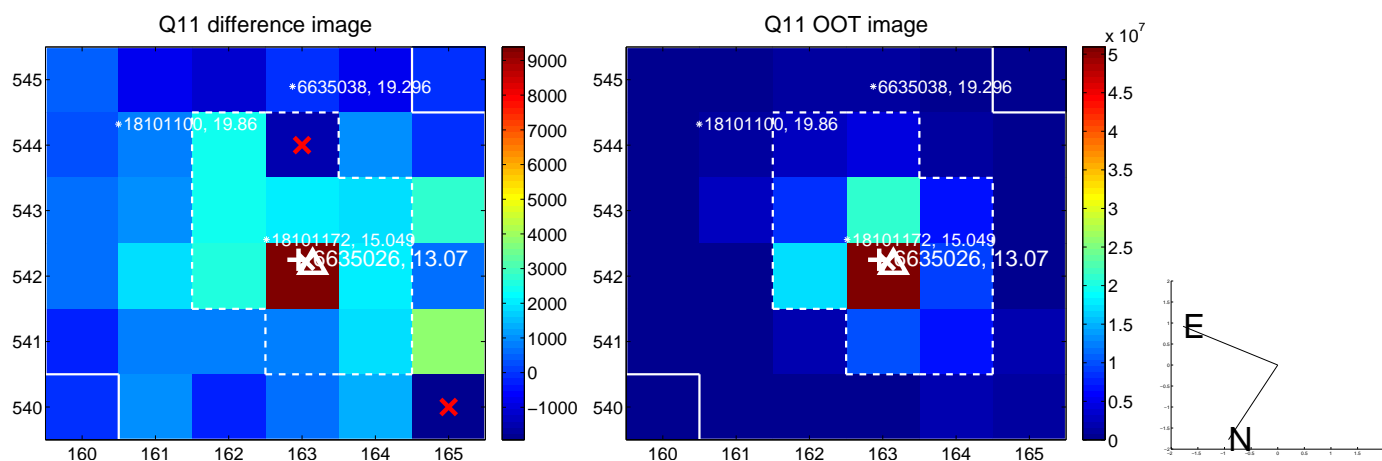
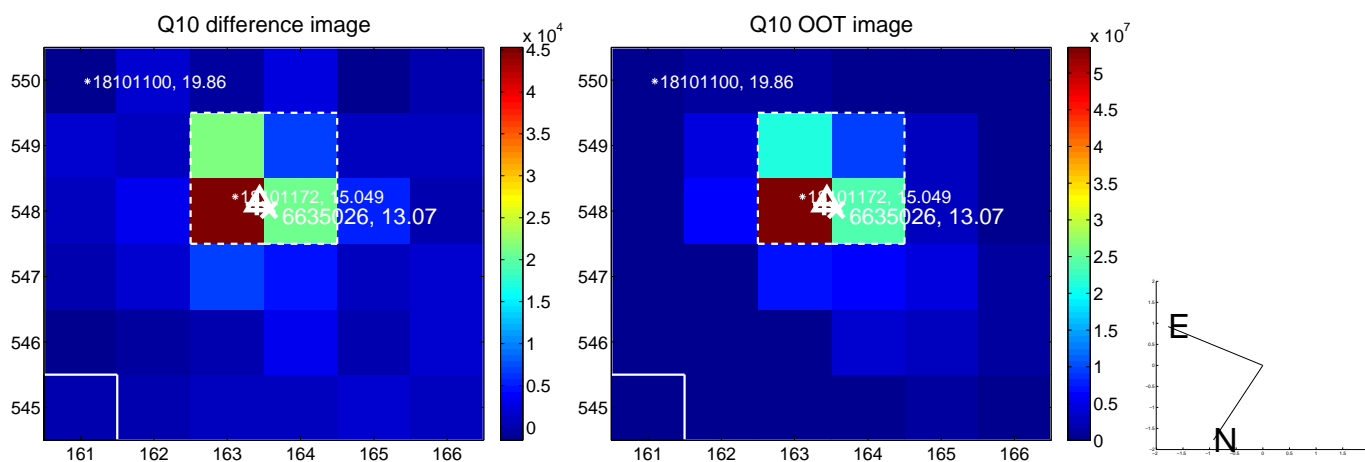
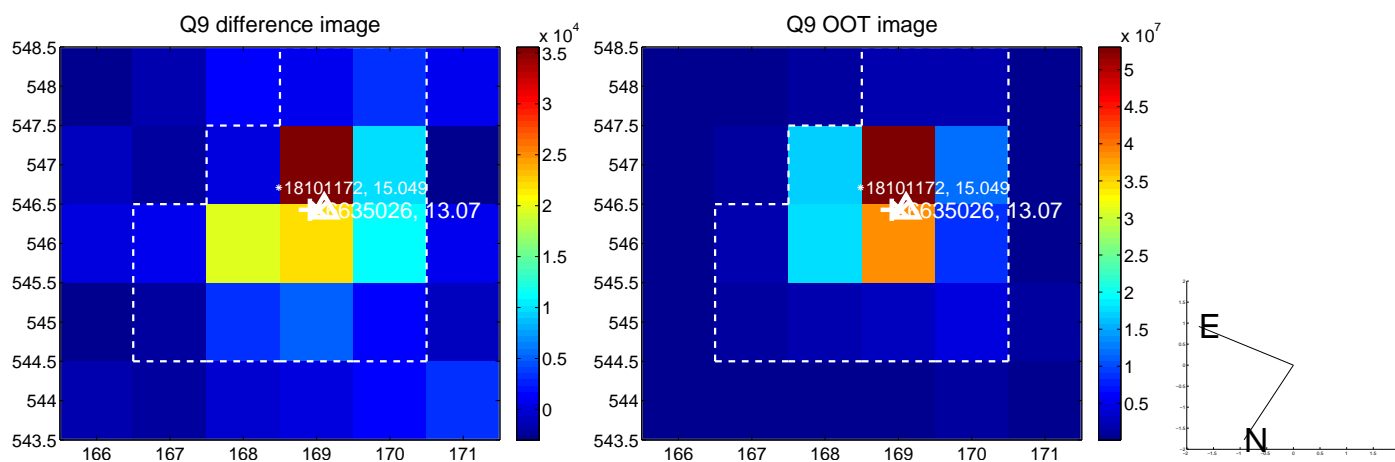
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



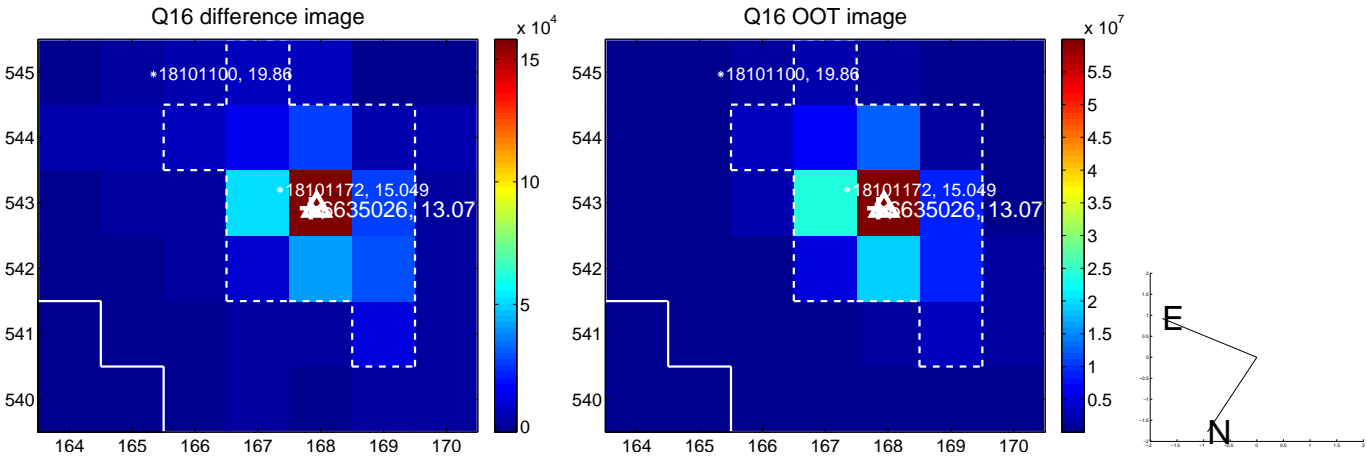
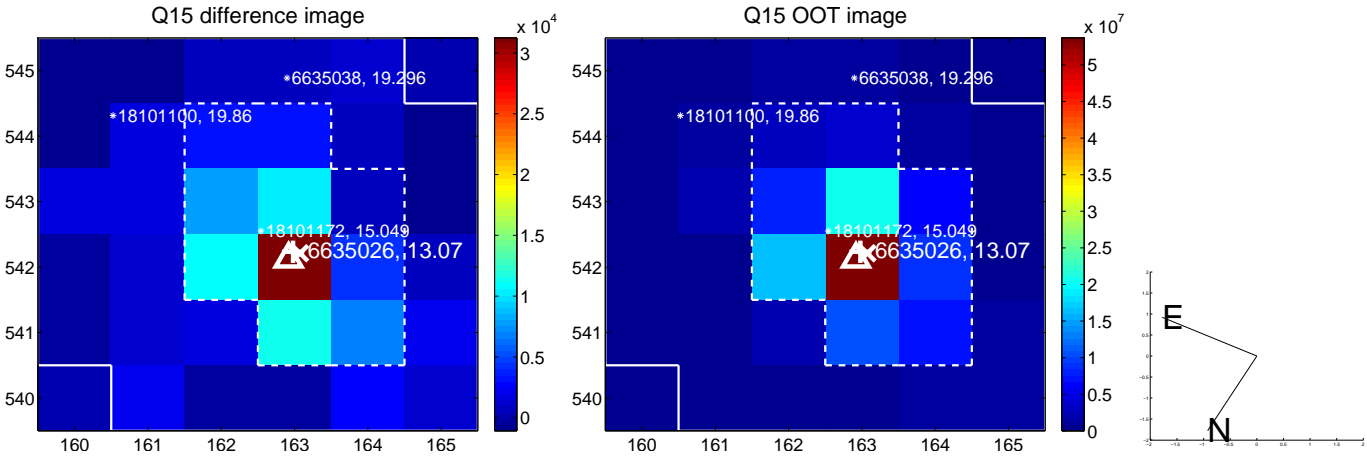
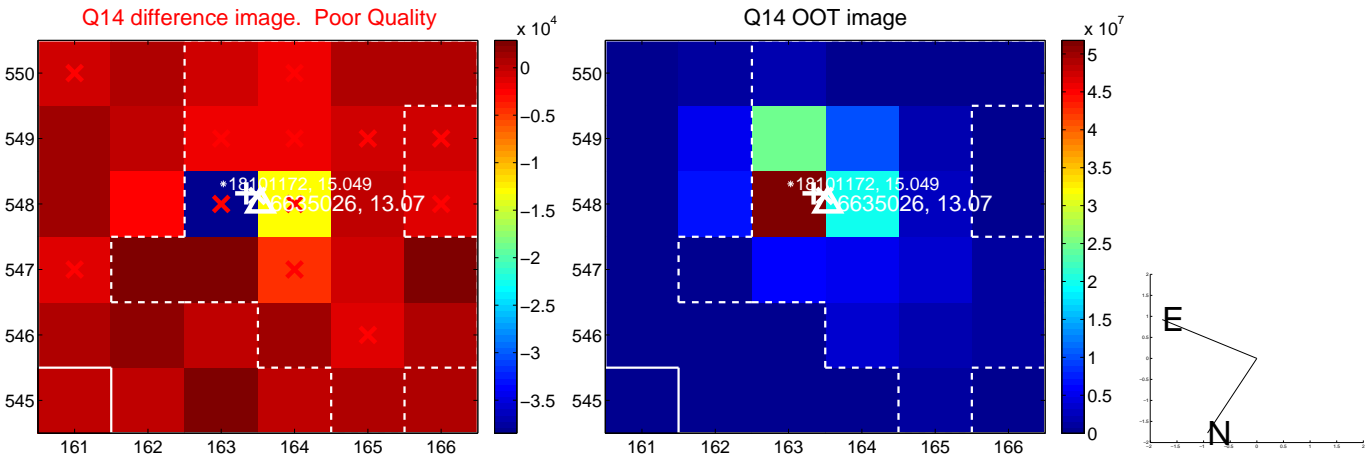
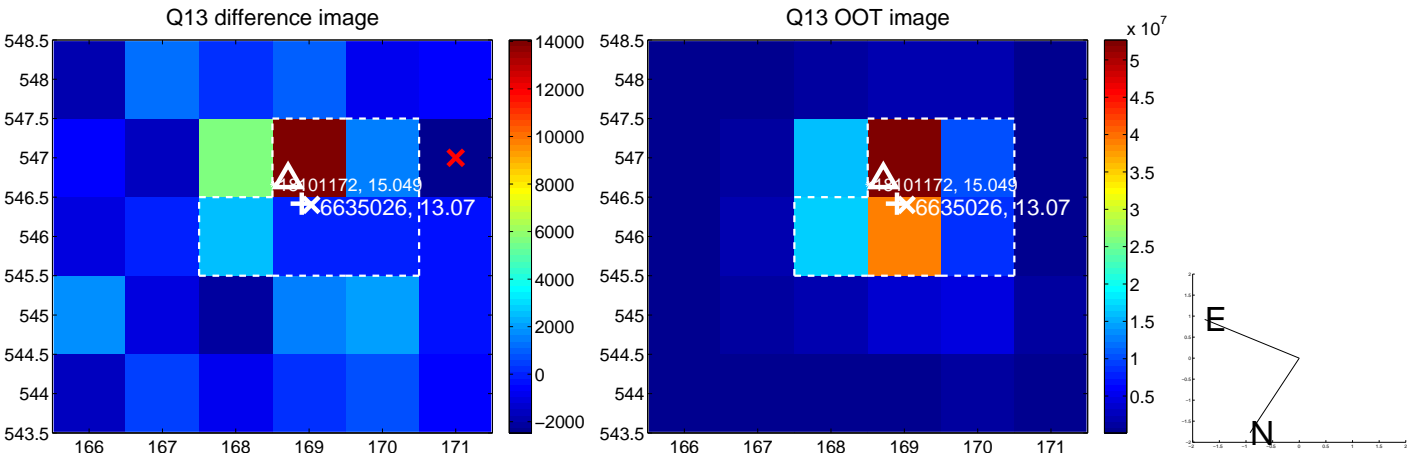
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



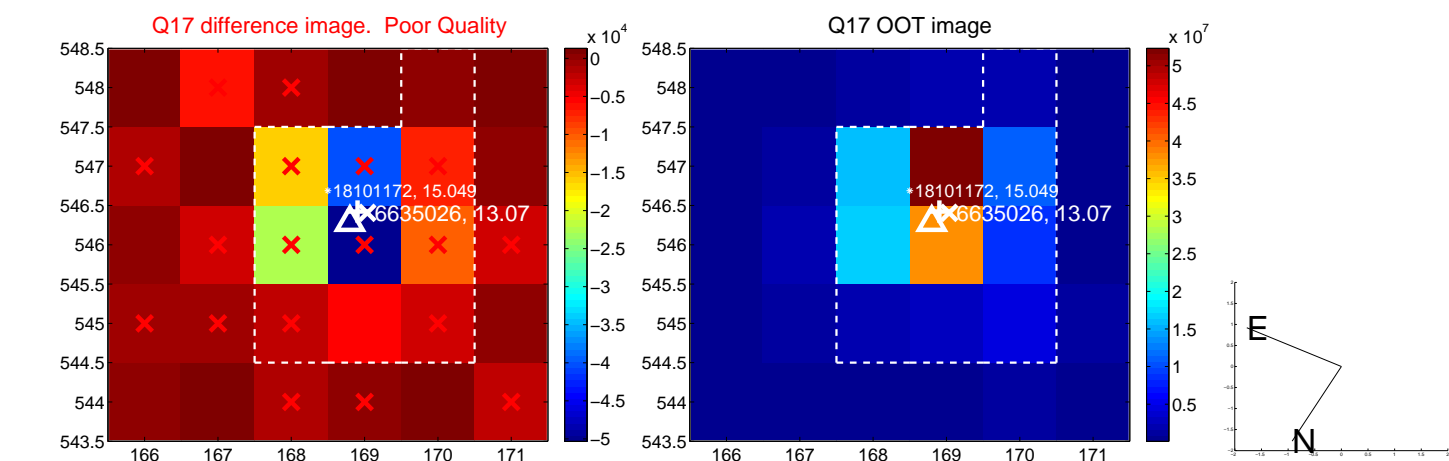
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



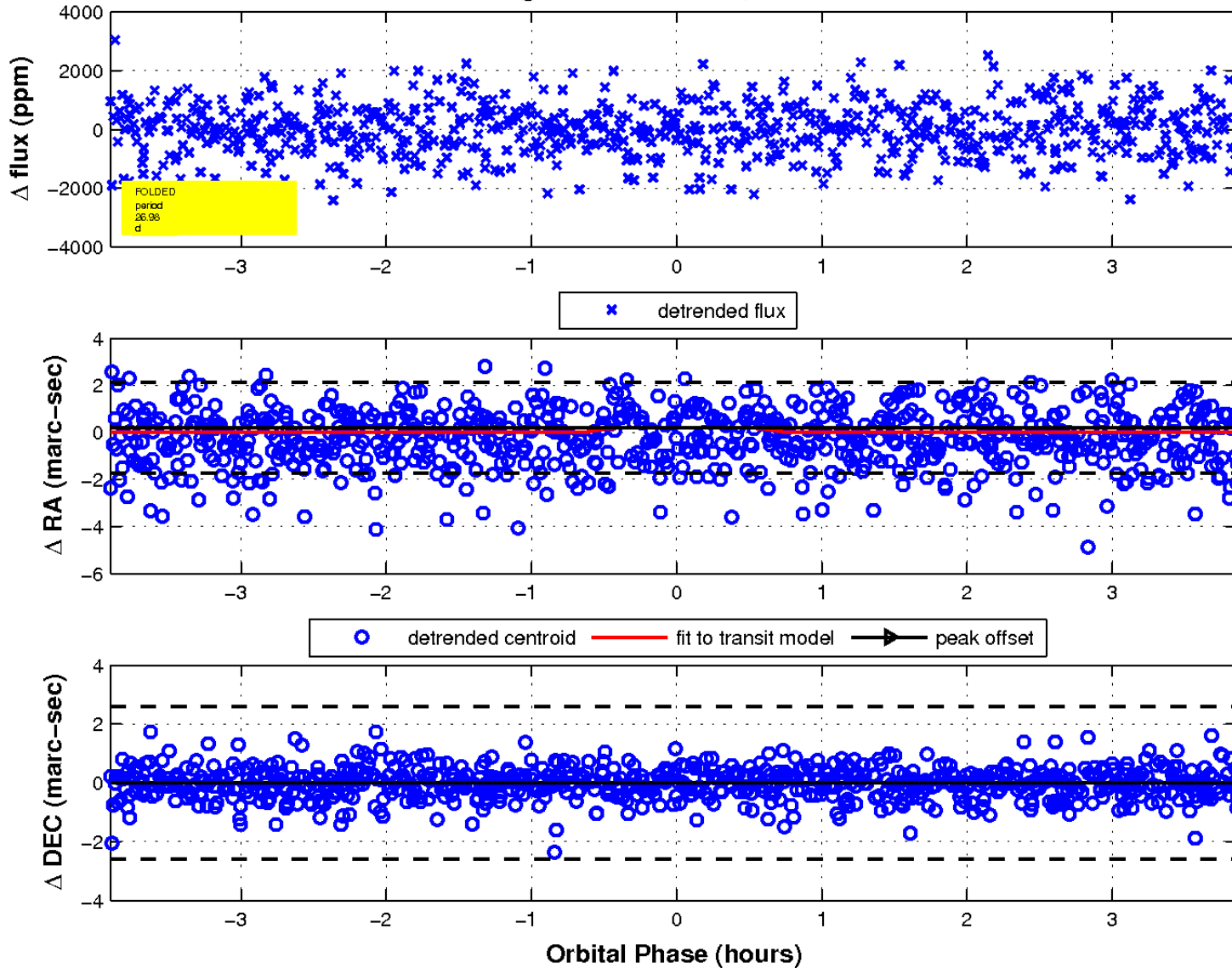
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

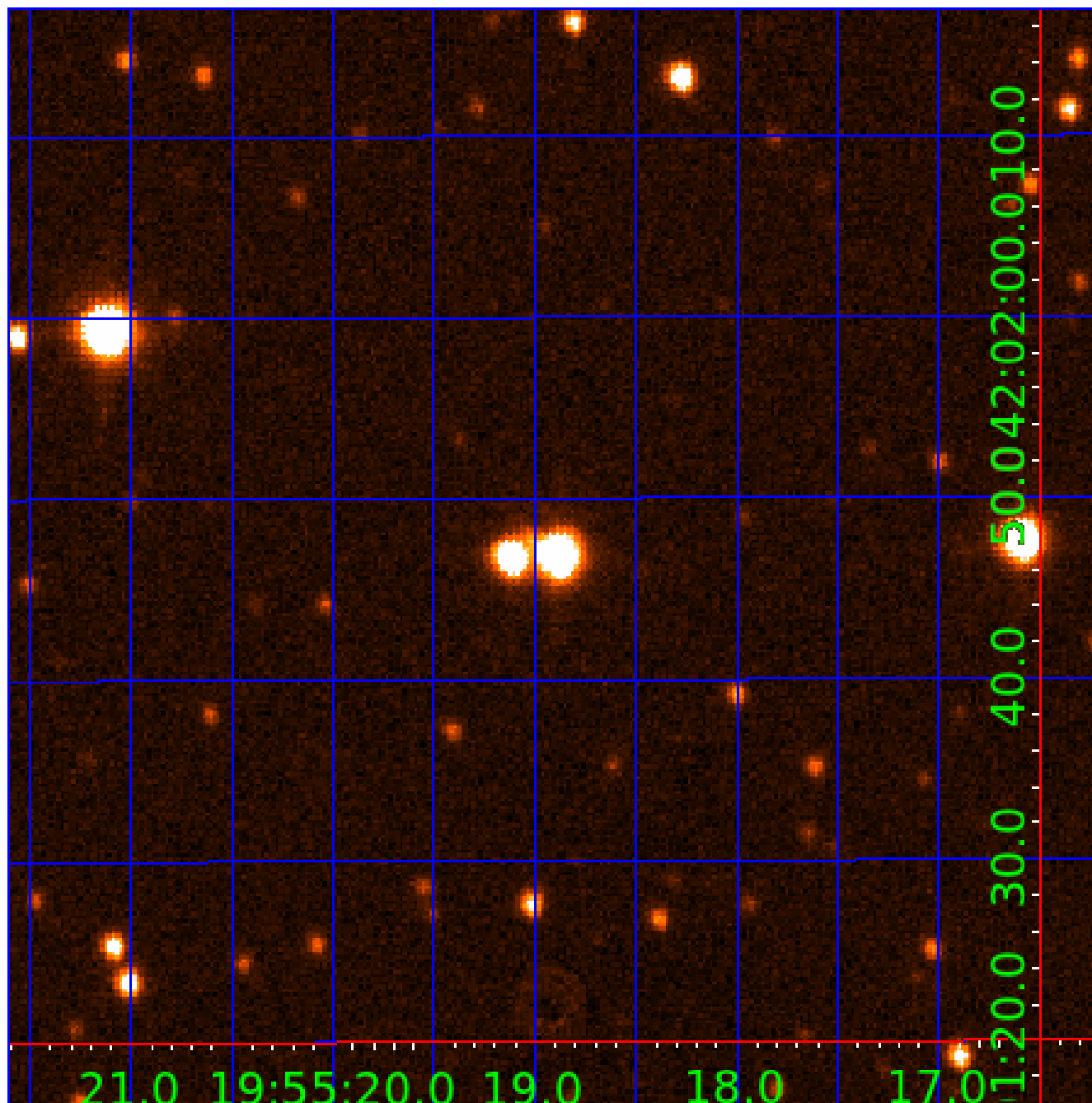


fluxWeightedCentroids, Planet 5 of 8



UKIRT Image

Declination



KIC 006635026

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})
006635026-01	OBS	No	0.723688	131.859976	109.1	4.950	17.4	11.8	2.31	7485	2.47	41623.07
006635026-02	OBS	No	140.939510	227.746688	2913.0	2.723	15.6	14.5	2.31	7485	13.93	36.87
006635026-03	OBS	No	38.428035	143.056910	1806.0	4.305	12.5	13.9	2.31	7485	11.32	208.55
006635026-04	OBS	No	60.219450	138.742859	2649.4	1.049	13.6	11.5	2.31	7485	12.25	114.57
006635026-05	OBS	No	26.980444	145.913094	1970.5	1.300	11.3	11.5	2.31	7485	10.74	334.20
006635026-06	OBS	No	36.206055	155.848699	1444.1	3.245	9.8	9.4	2.31	7485	13.34	225.78
006635026-07	OBS	No	135.464597	151.815020	1424.1	8.019	9.2	9.7	2.31	7485	9.36	38.87
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006635026-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_KIC_POS
006635026-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
006635026-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_KIC_POS
006635026-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

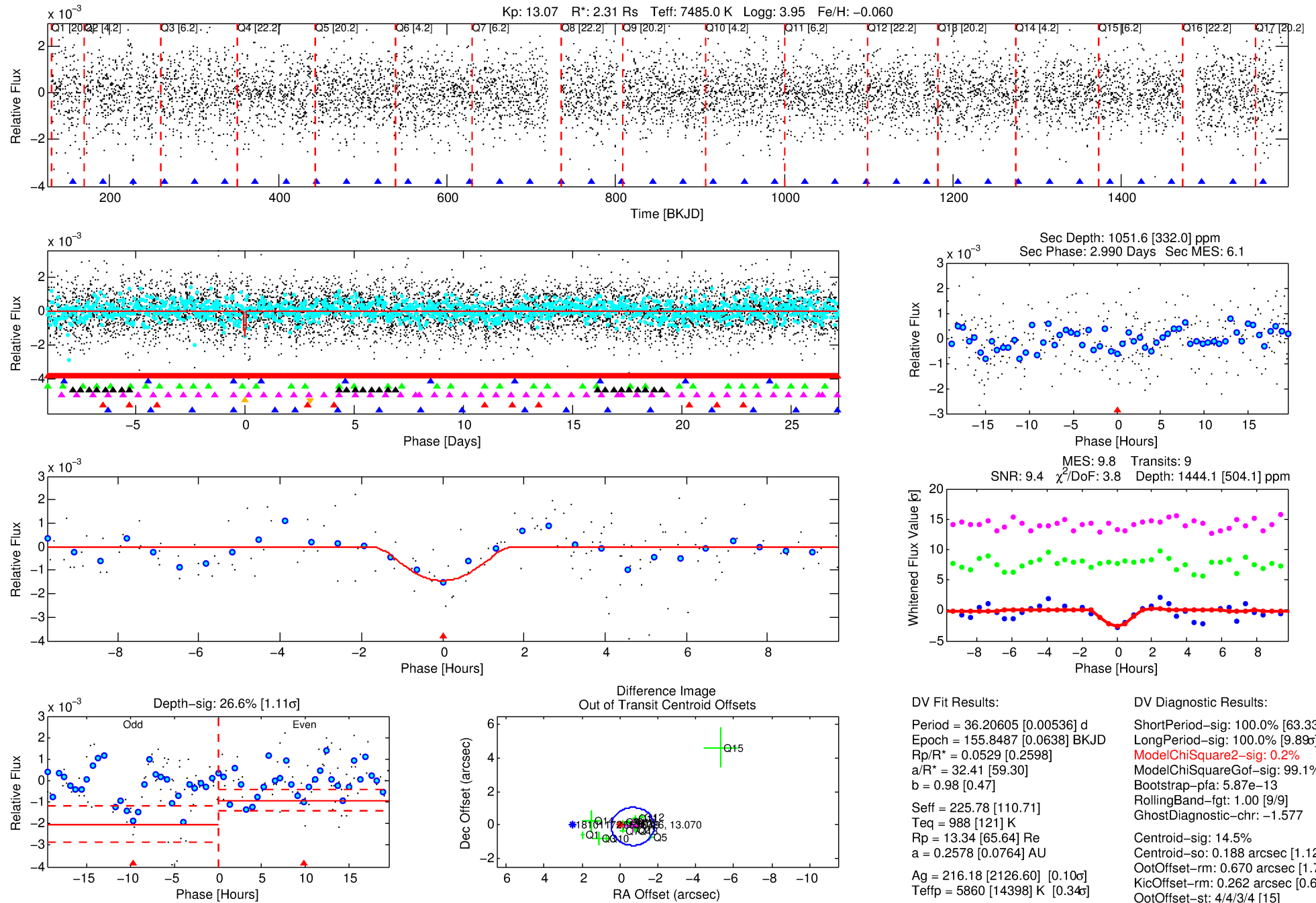
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006635026-06

No Significant Match Found

DV One-Page Summary

KIC: 6635026 Candidate: 6 of 8 Period: 36.206 d



DV Fit Results:

Period = 36.20605 [0.00536] d
Epoch = 155.8487 [0.0638] BKJD
Rp/R* = 0.0529 [0.2598]
a/R* = 32.41 [59.30]
b = 0.98 [0.47]
Seff = 225.78 [110.71]
Teq = 988 [121] K
Rp = 13.34 [65.64] Re
a = 0.2578 [0.0764] AU
Ag = 216.18 [2126.60] [0.10σ]
Teffp = 5860 [14398] K [0.34σ]

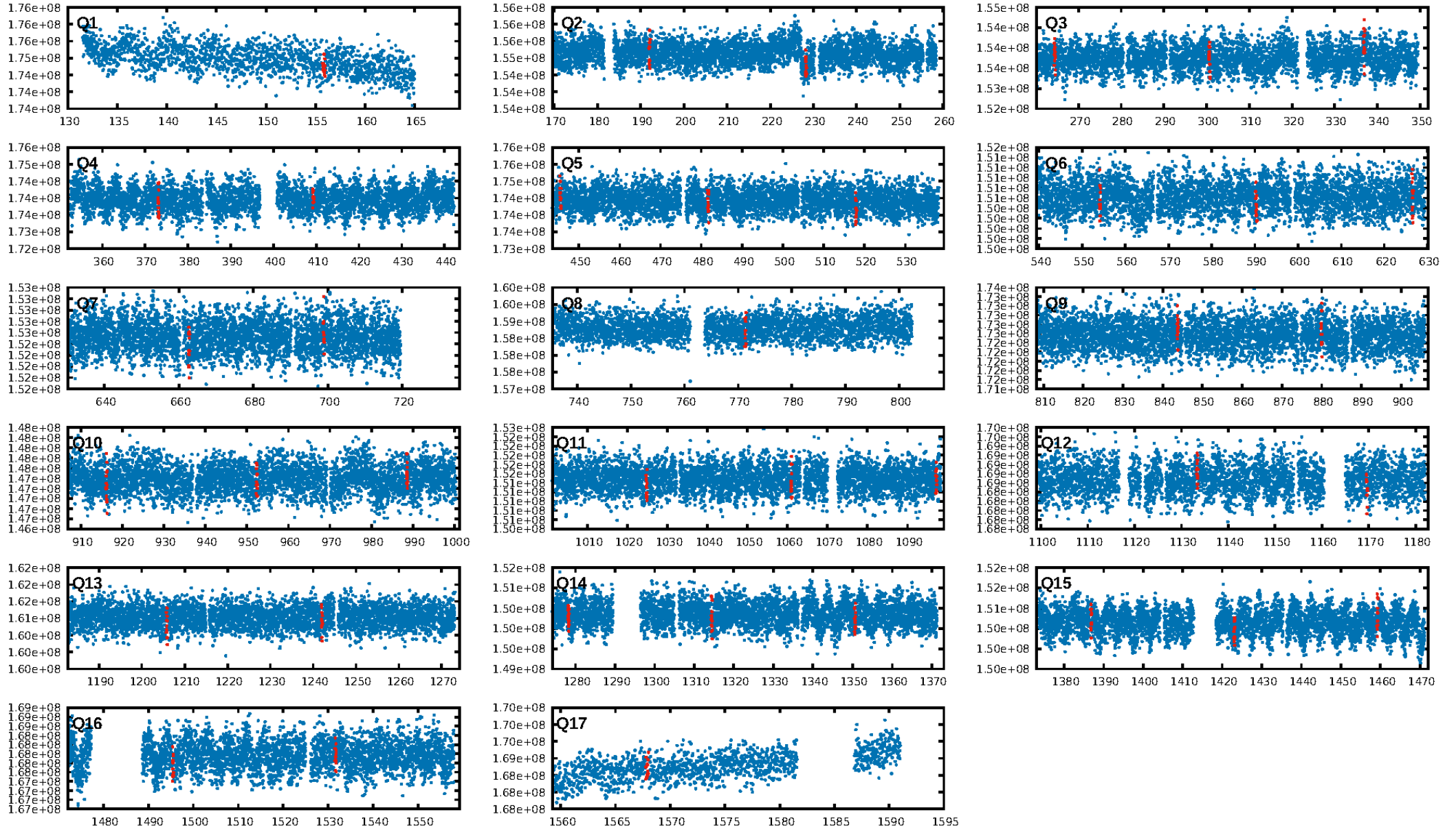
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [63.33σ]
LongPeriod-sig: 100.0% [9.89σ]
ModelChiSquare2-sig: 0.2%
ModelChiSquareGof-sig: 99.1%
Bootstrap-pfa: 5.87e-13
RollingBand-fgt: 1.00 [9/9]
GhostDiagnostic-chr: -1.577
Centroid-sig: 14.5%
Centroid-so: 0.188 arcsec [1.12σ]
OotOffset-rm: 0.670 arcsec [1.77σ]
OotOffset-st: 4/4/3/4 [15]
KicOffset-rm: 0.262 arcsec [0.62σ]
KicOffset-st: 4/4/3/4 [15]
DiffImageQuality-fgm: 0.60 [9/15]
DiffImageOverlap-fno: 0.00 [0/17]

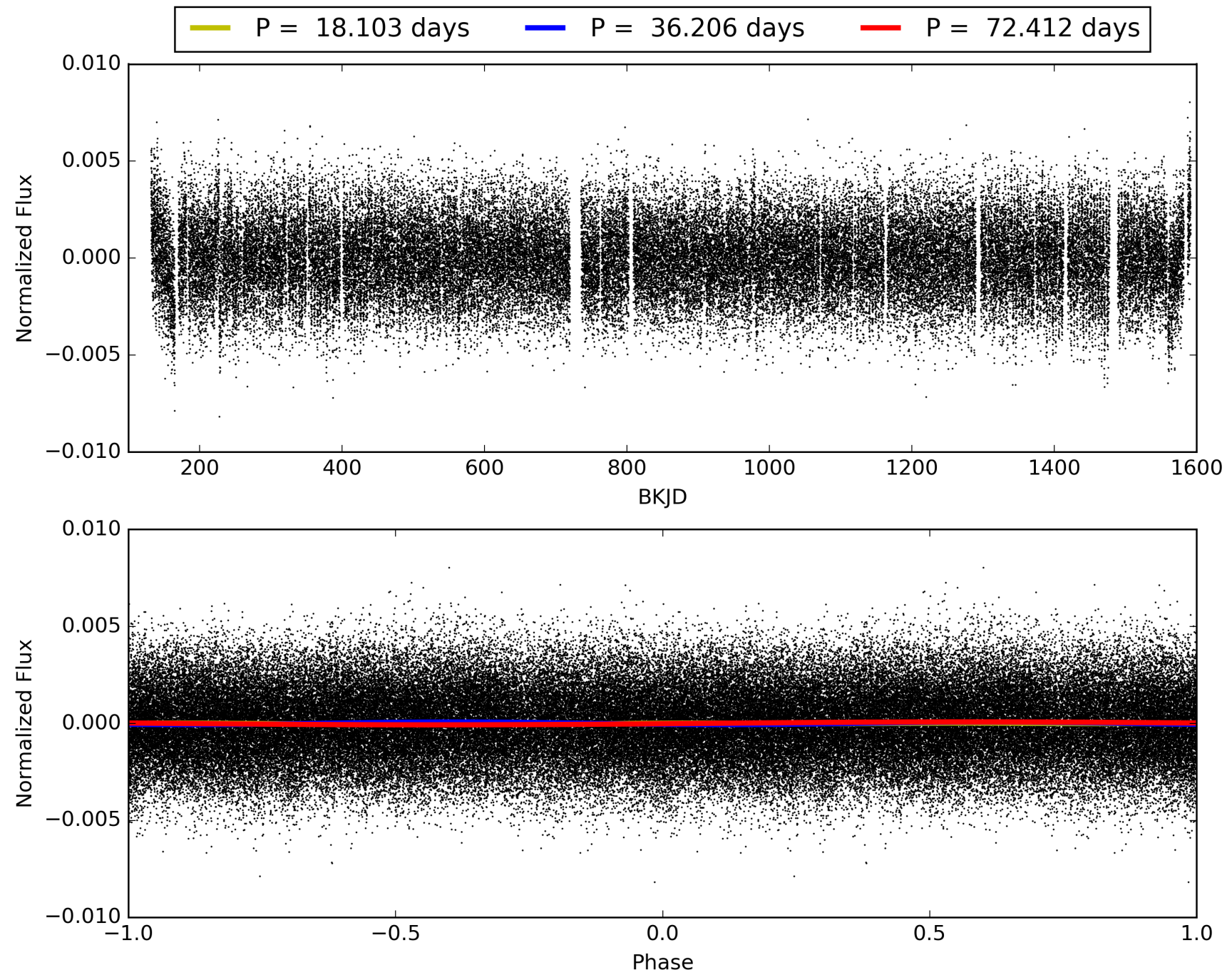
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:19:55 Z

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

TCE 006635026-06, PDC Light Curves

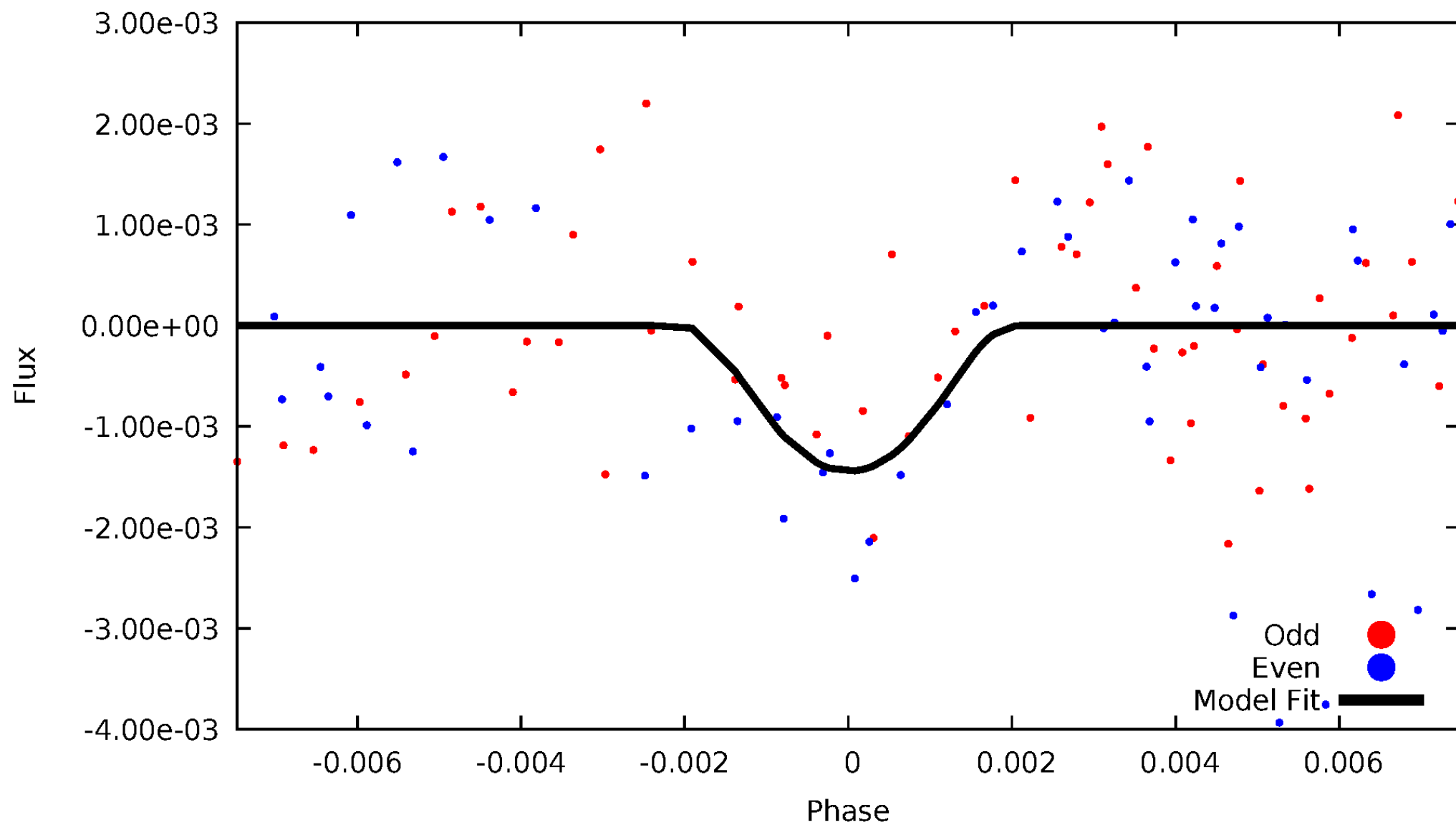


TCE 006635026-06



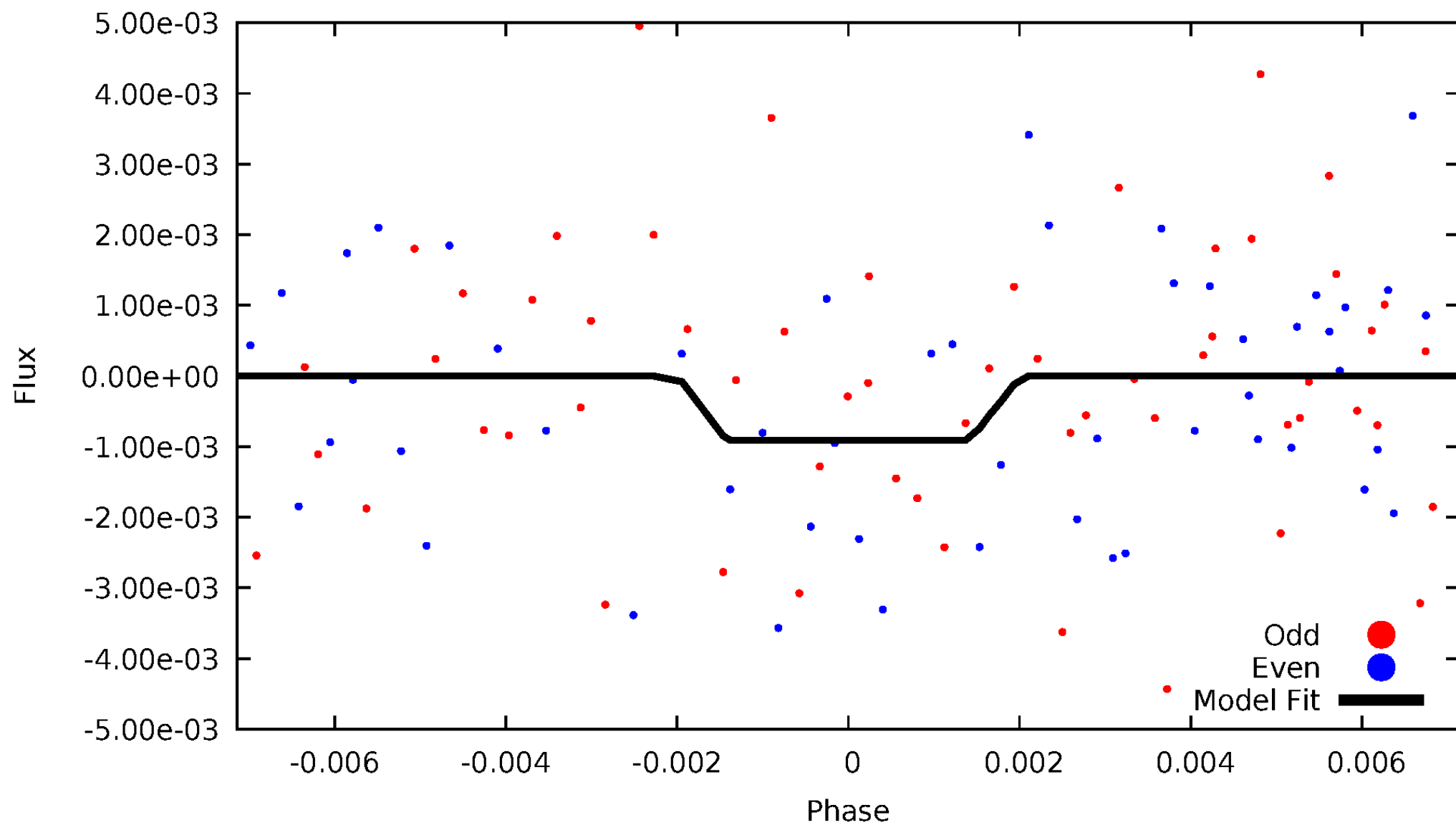
DV Odd/Even

TCE 006635026-06



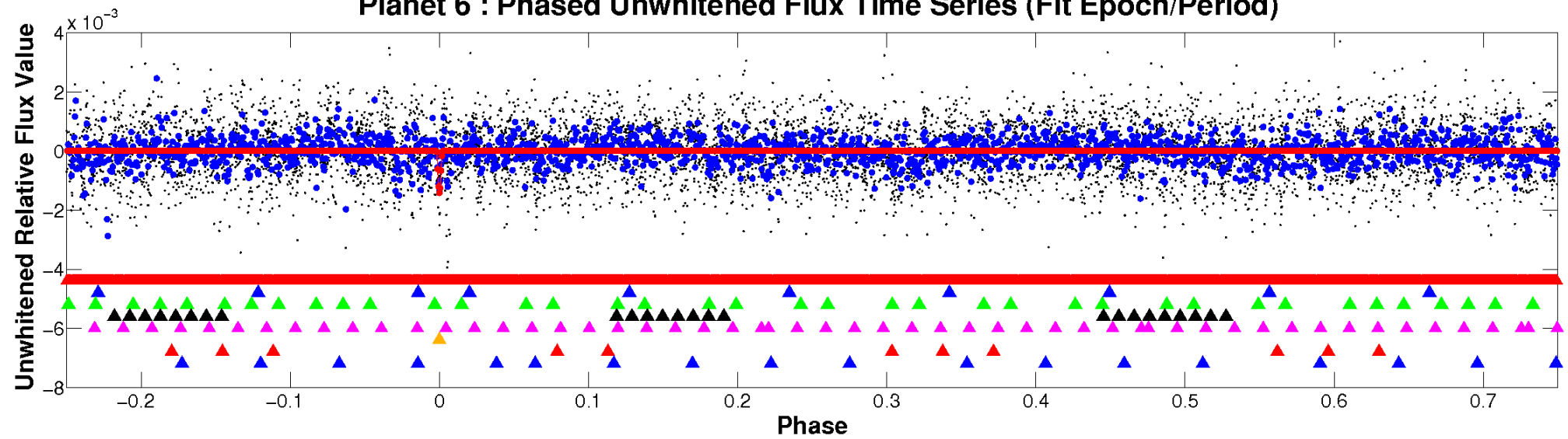
ALT Odd/Even

TCE 006635026-06

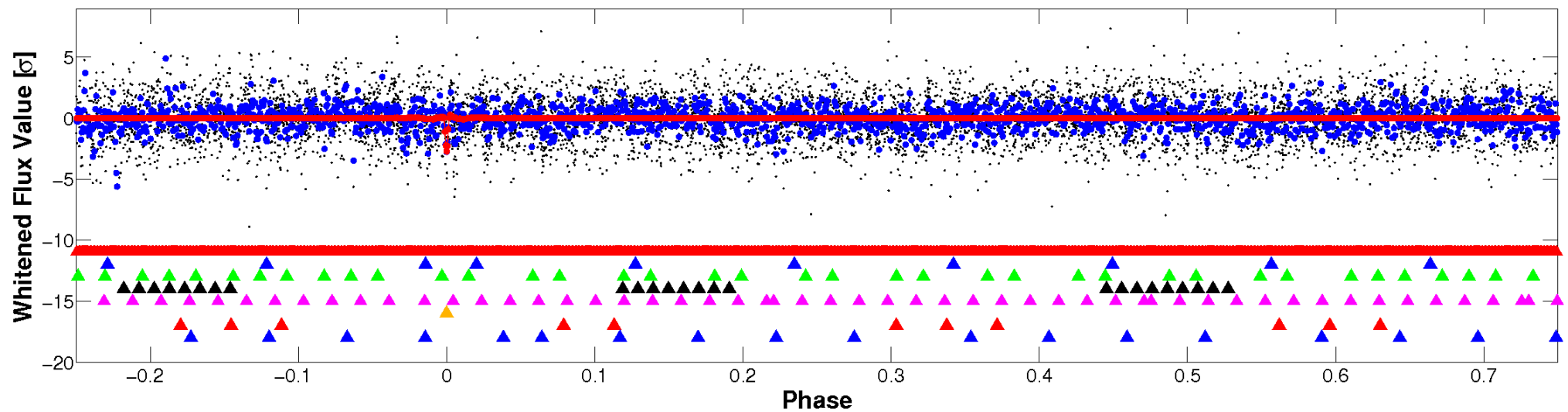


Non-Whitened Vs. Whitened Light Curve

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

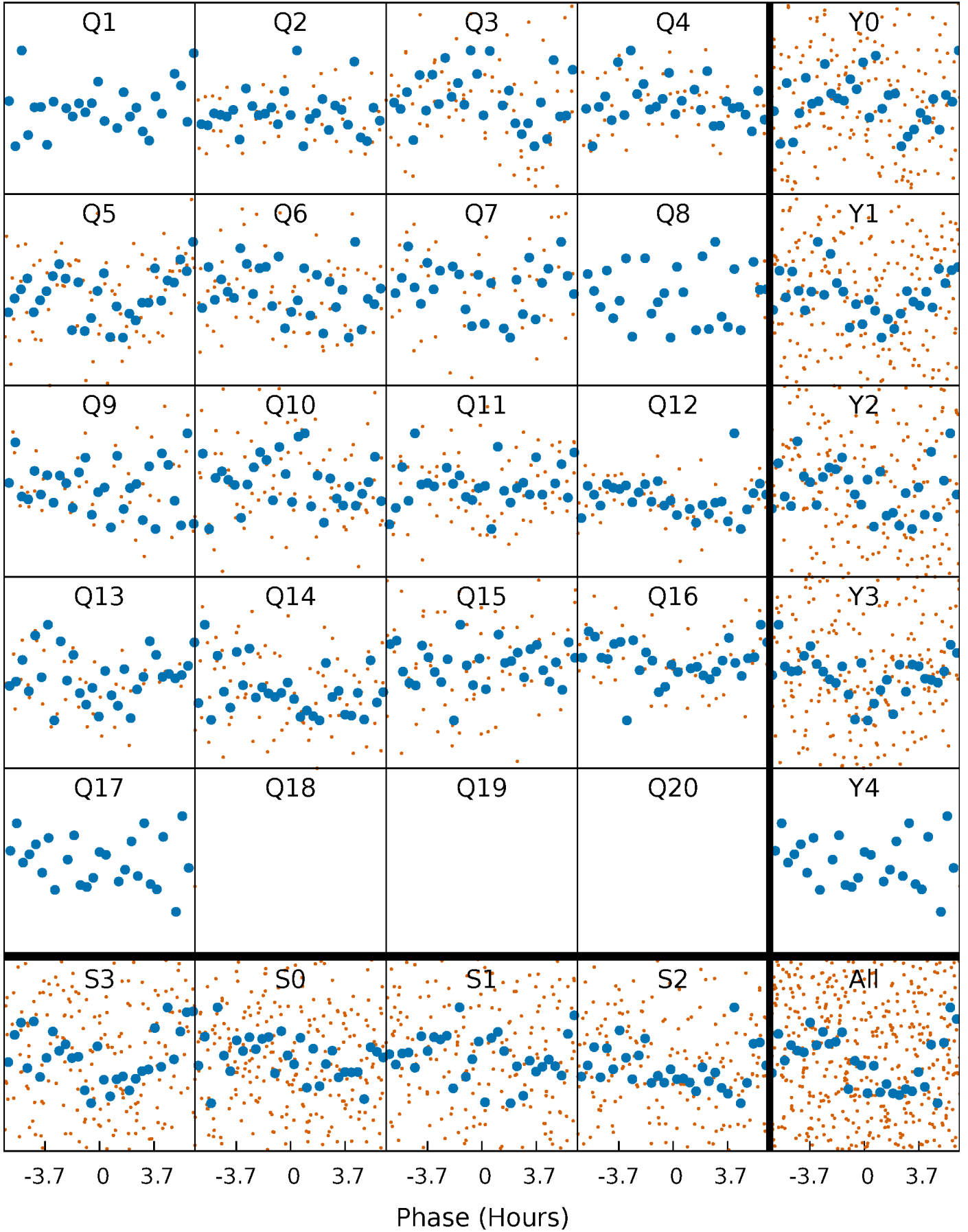


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



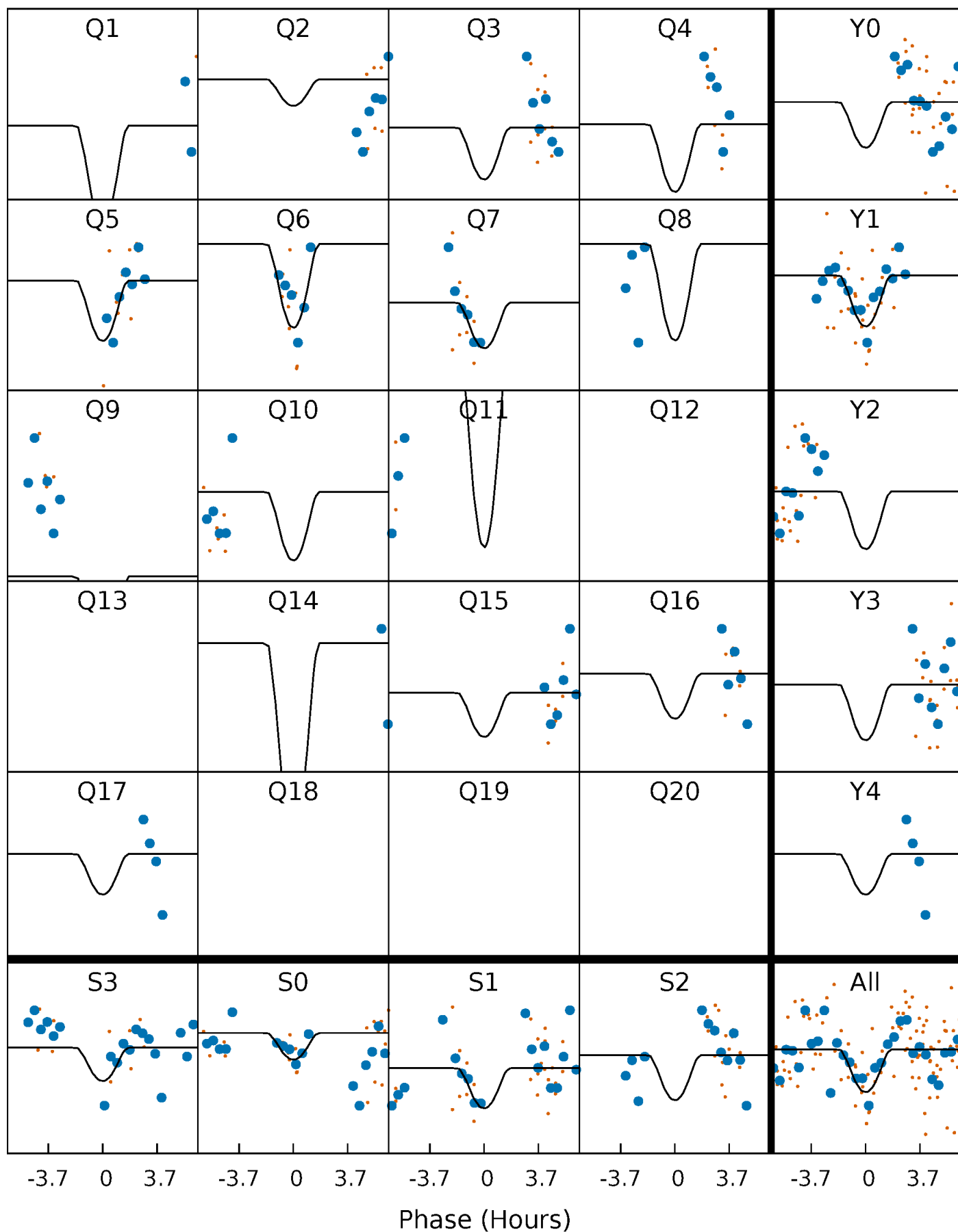
PDC Quarter-Phased Transit Curves

TCE 006635026-06 P= 36.206055 Days $T_0=155.848700$ (BKJD)



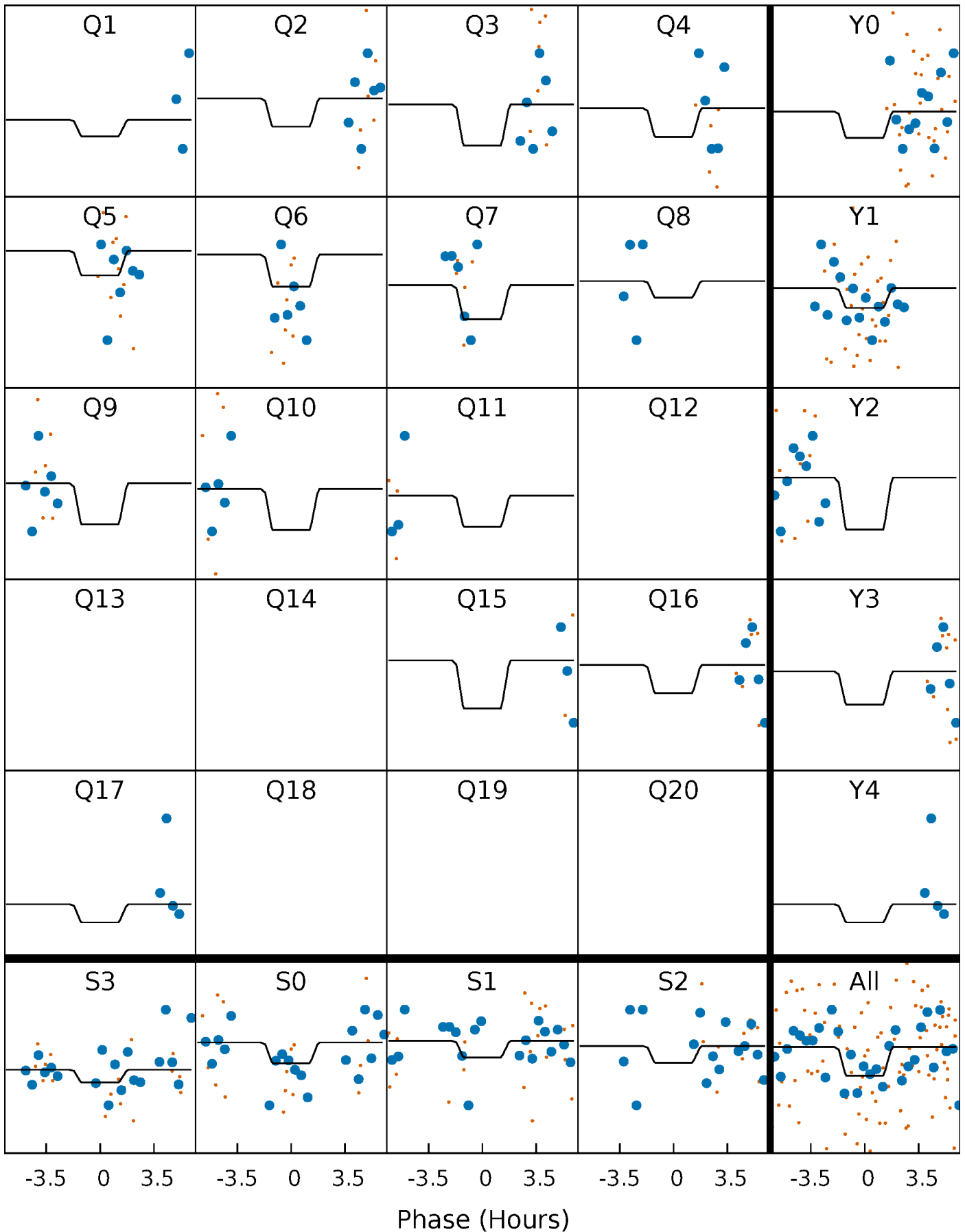
DV Quarter-Phased Transit Curves

TCE 006635026-06 P= 36.206055 Days $T_0=155.848700$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

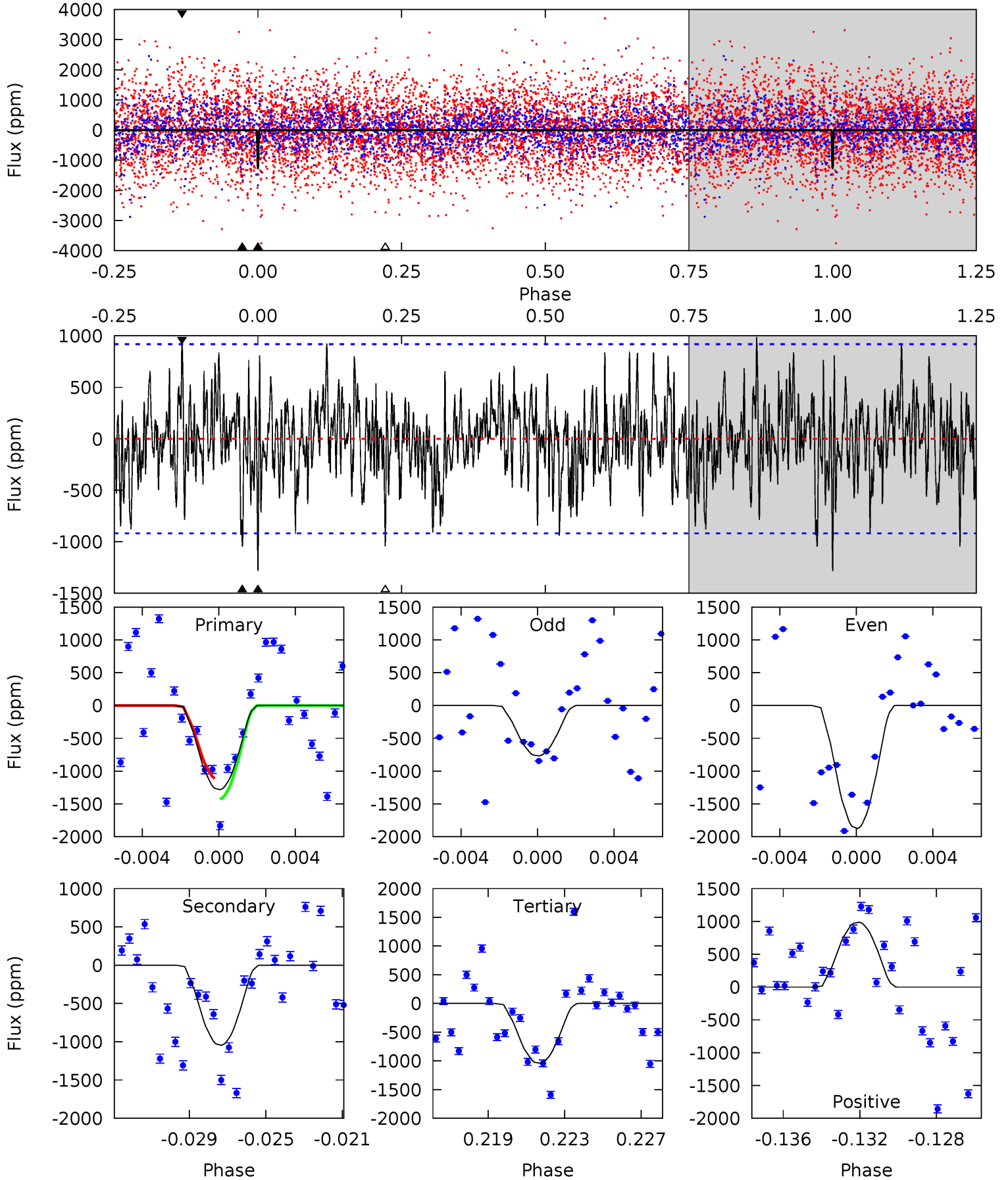
TCE 006635026-06 P= 36.204139 Days $T_0=155.876422$ (BKJD)



DV Model-Shift Uniqueness Test

006635026-06, P = 36.206055 Days, E = 119.642645 Days

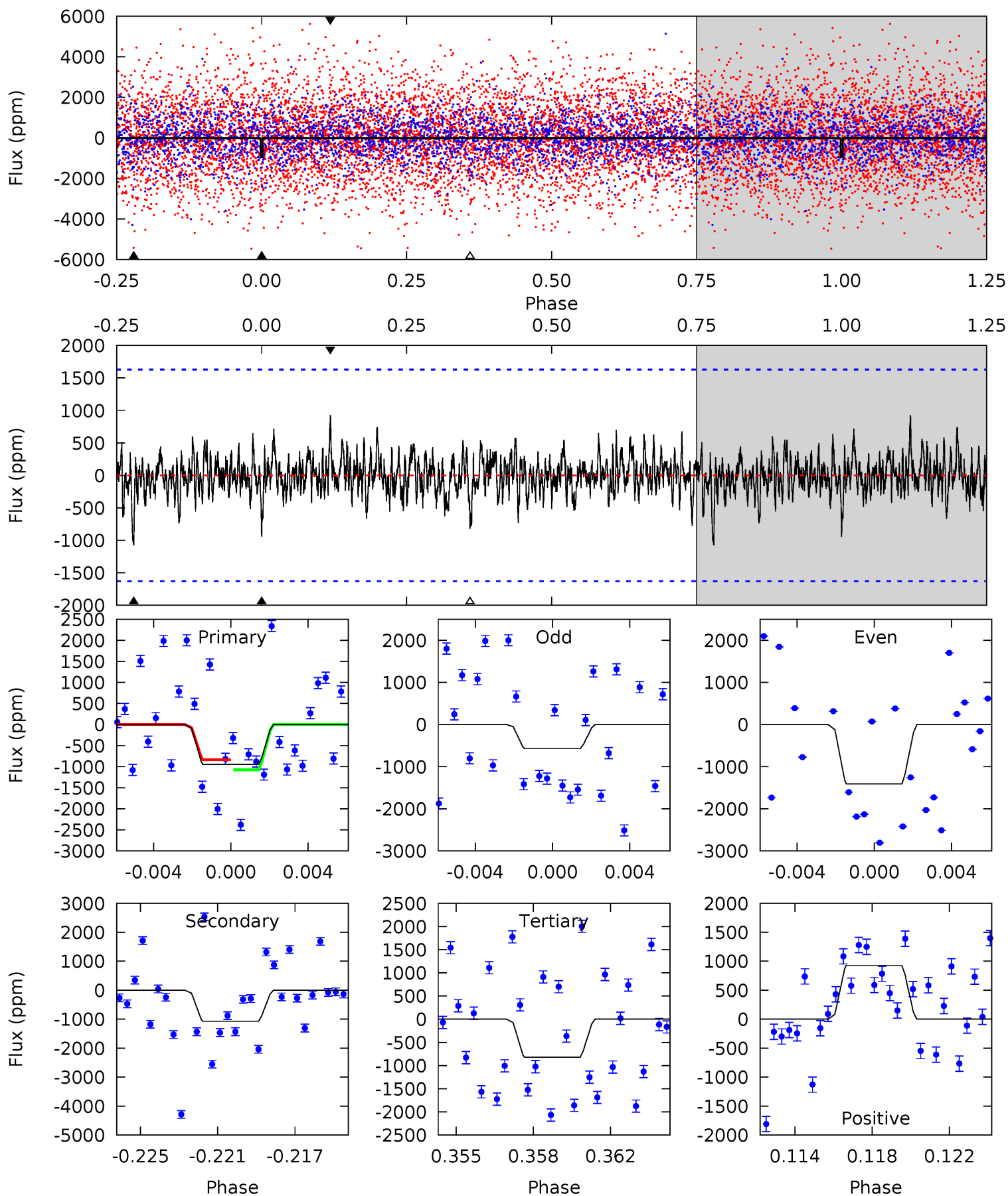
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.26	5.92	5.90	5.59	5.19	2.87	1.79	1.36	1.67	0.02	0.33	3.13	0.86	0.44	0.88



Alt Model-Shift Uniqueness Test

006635026-06, P = 36.204139 Days, E = 119.672283 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.03	3.44	2.63	2.97	5.21	2.89	0.77	0.40	0.06	0.81	0.47	1.34	1.02	0.46	0.38



Stellar Parameters For KIC 006635026

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7485^{+209}_{-340}	$3.952^{+0.260}_{-0.140}$	$-0.060^{+0.200}_{-0.400}$	$2.310^{+0.507}_{-0.760}$	$1.743^{+0.195}_{-0.363}$	$0.199^{+0.337}_{-0.084}$
	+3%/-5%	+7%/-4%	+333%/-667%	+22%/-33%	+11%/-21%	+169%/-42%
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 006635026-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1047 ± 177	$48.94^{+45.01}_{-32.96}$	1359^{+102}_{-125}	3421^{+1631}_{-621}	16^{+139}_{-12}
Alt.	-1075 ± 313	$45.33^{+52.36}_{-32.56}$	1354^{+106}_{-117}	3485^{+2201}_{-700}	18^{+207}_{-14}

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

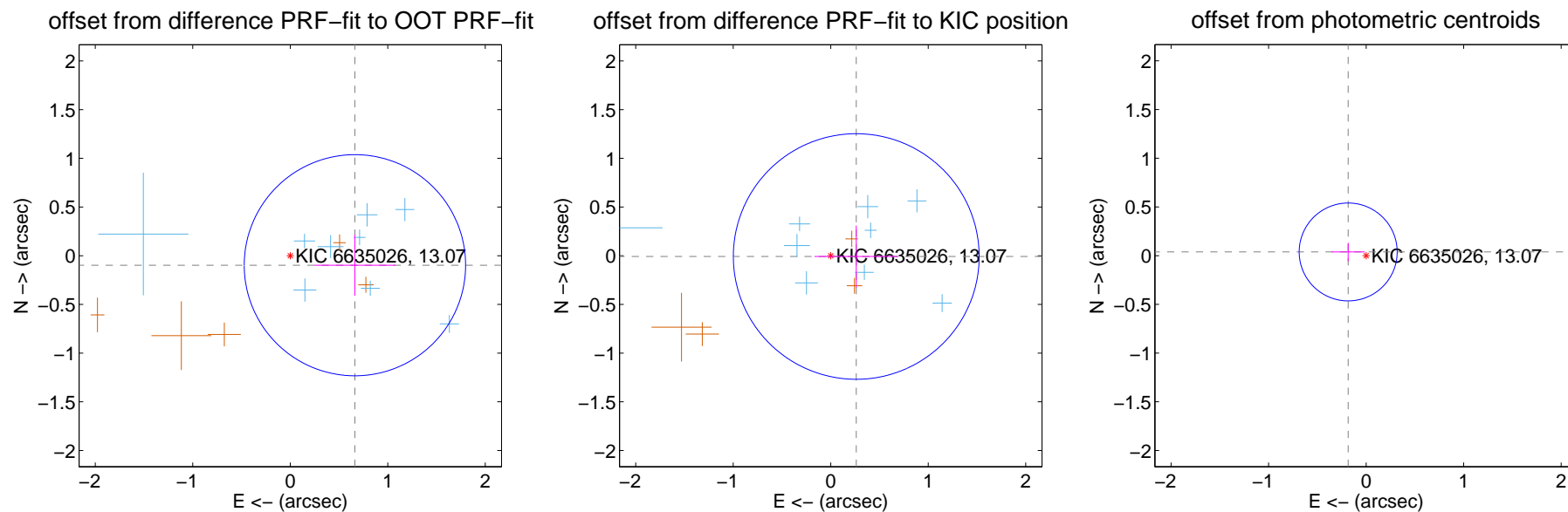
DV Centroid Data

Supplemental centroid analysis for 006635026-06. Kepler magnitude: 13.07. Transit SNR 9.44

There are 9 quarters with good PRF difference image offsets

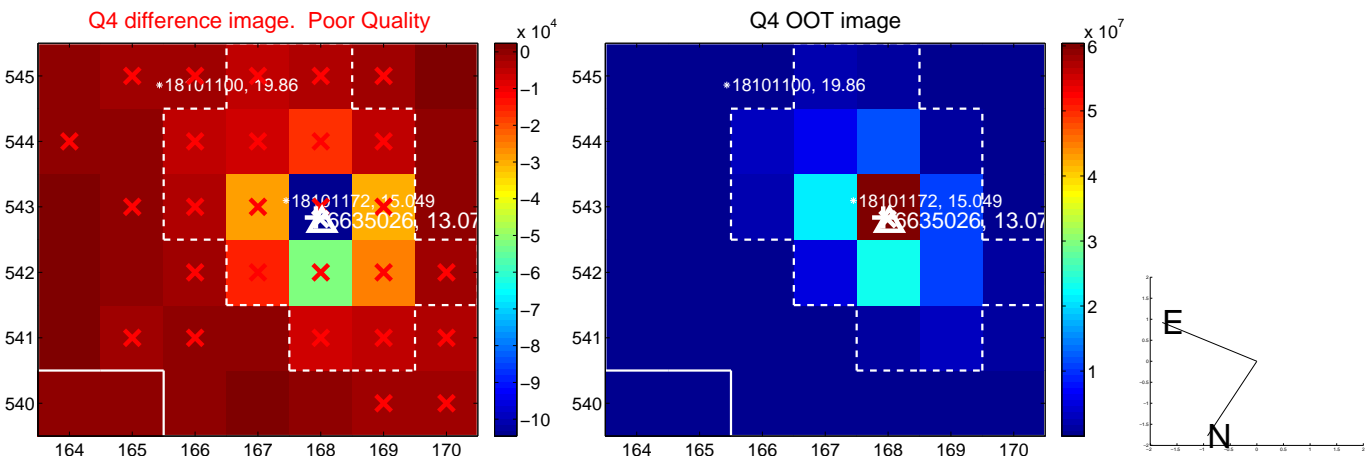
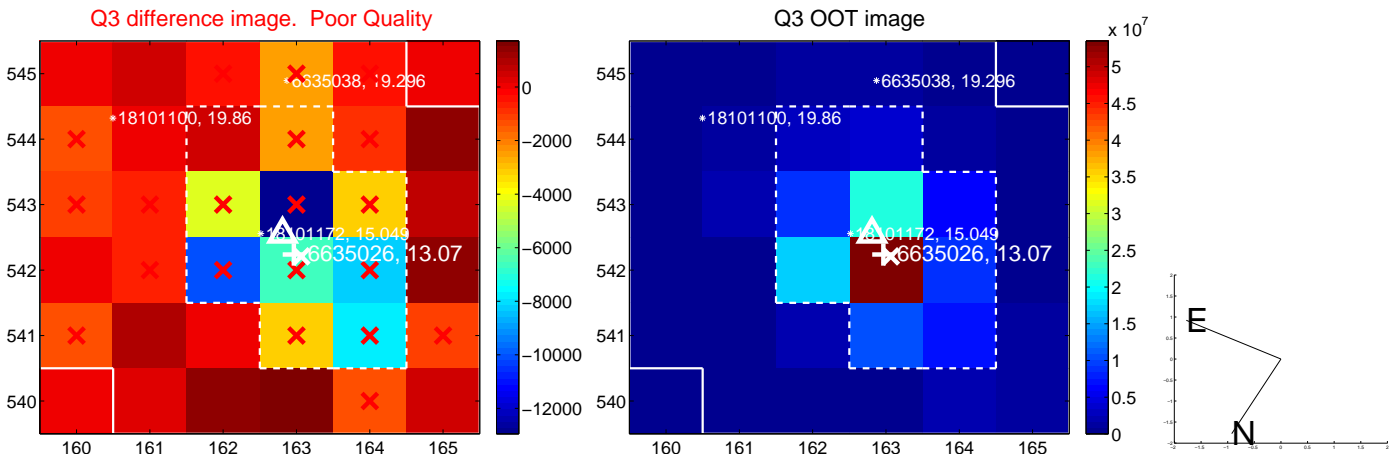
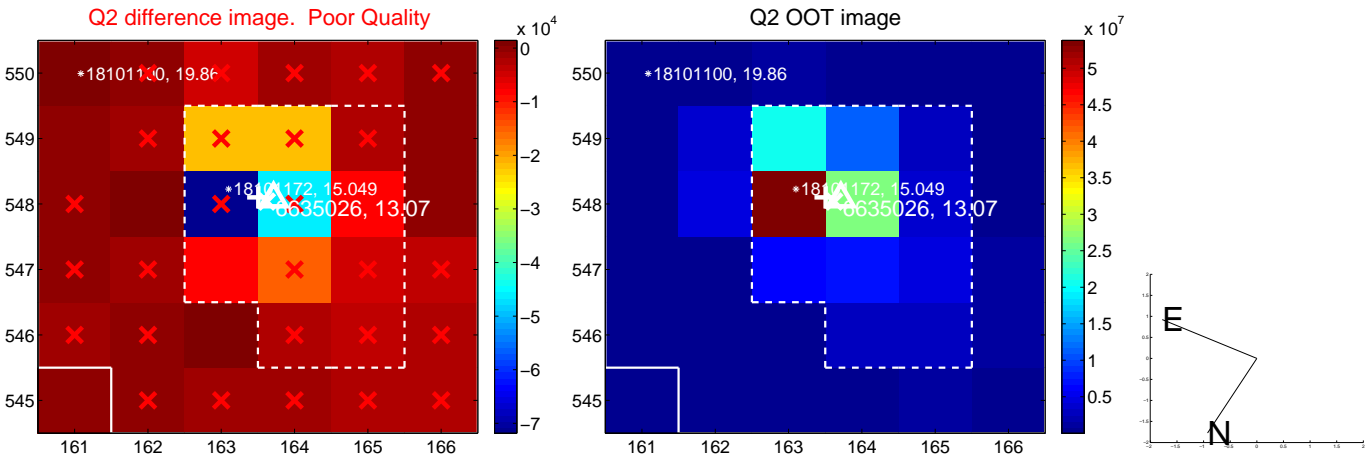
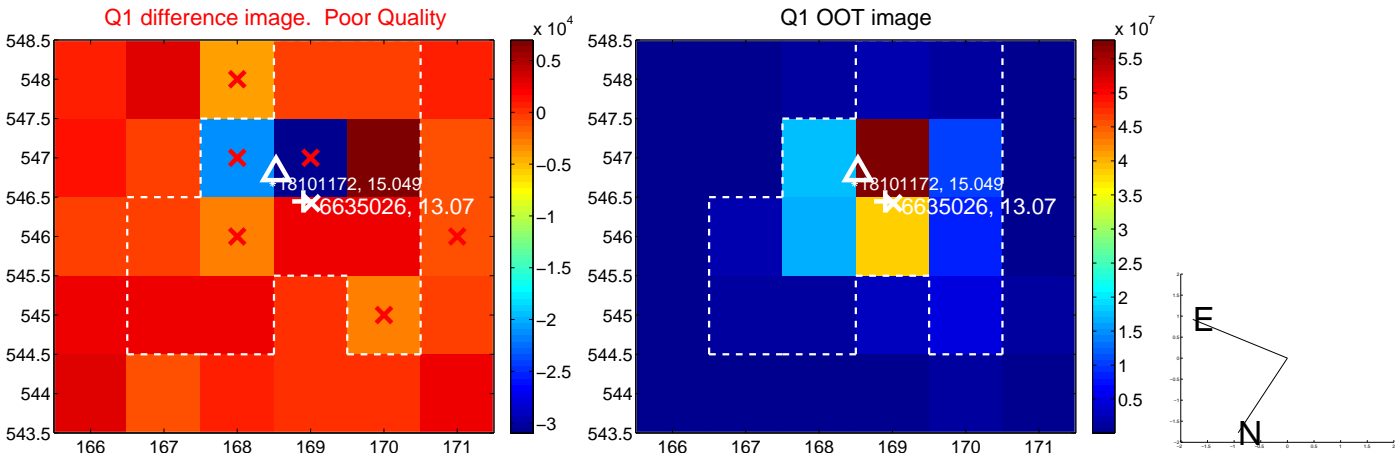
The direct PRF centroid is offset from the target star catalog position by about 0.31 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.670 ± 0.378	1.77	-0.663 ± 0.415	-0.098 ± 0.313
PRF-fit source offset from KIC position	0.262 ± 0.420	0.62	-0.262 ± 0.428	-0.008 ± 0.318
photometric centroid source offset	0.19 ± 0.17	1.12	0.18 ± 0.17	0.04 ± 0.09

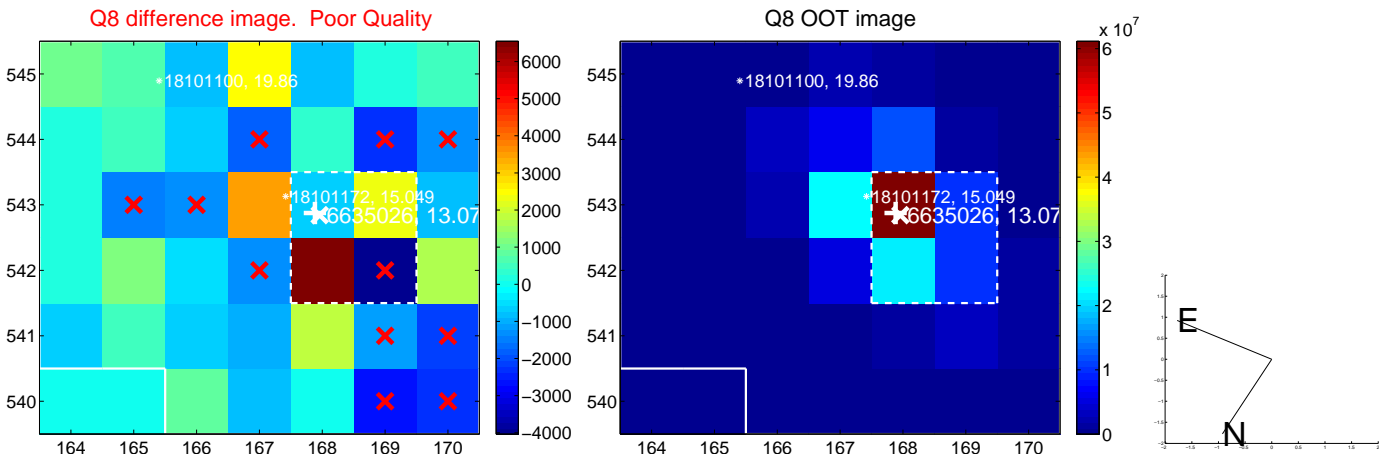
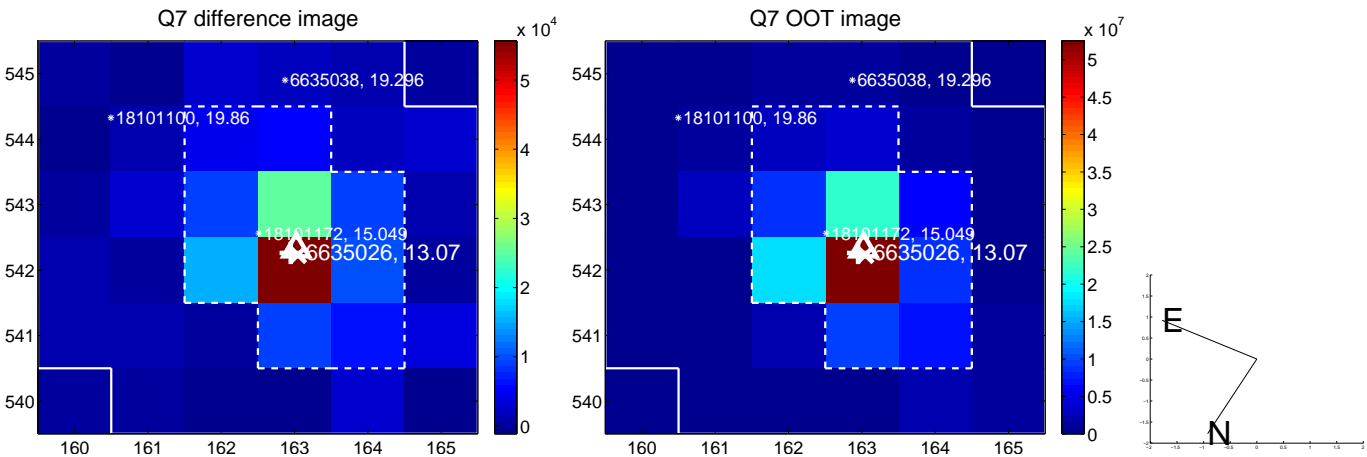
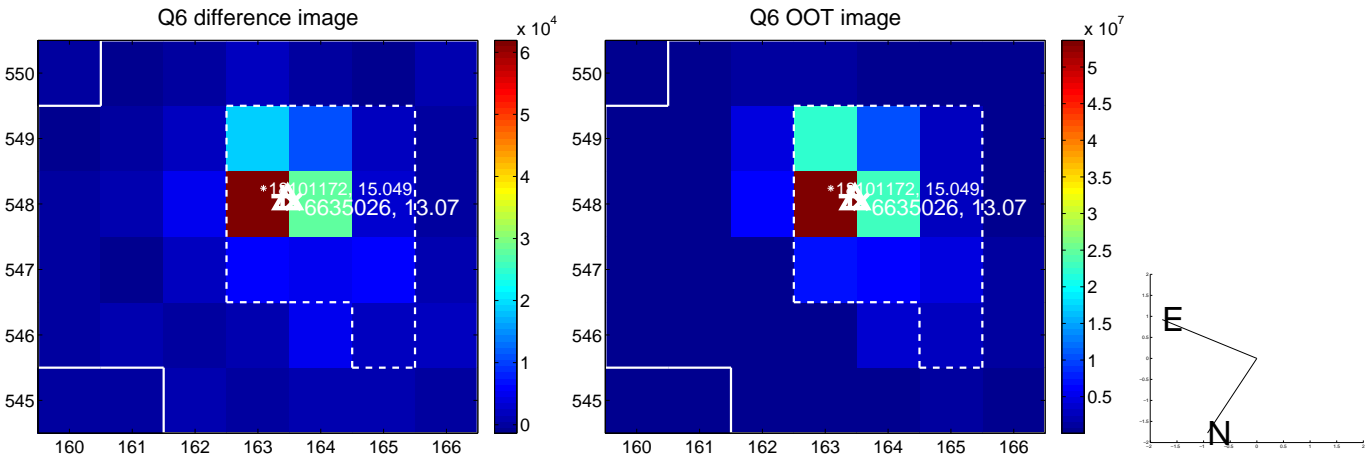
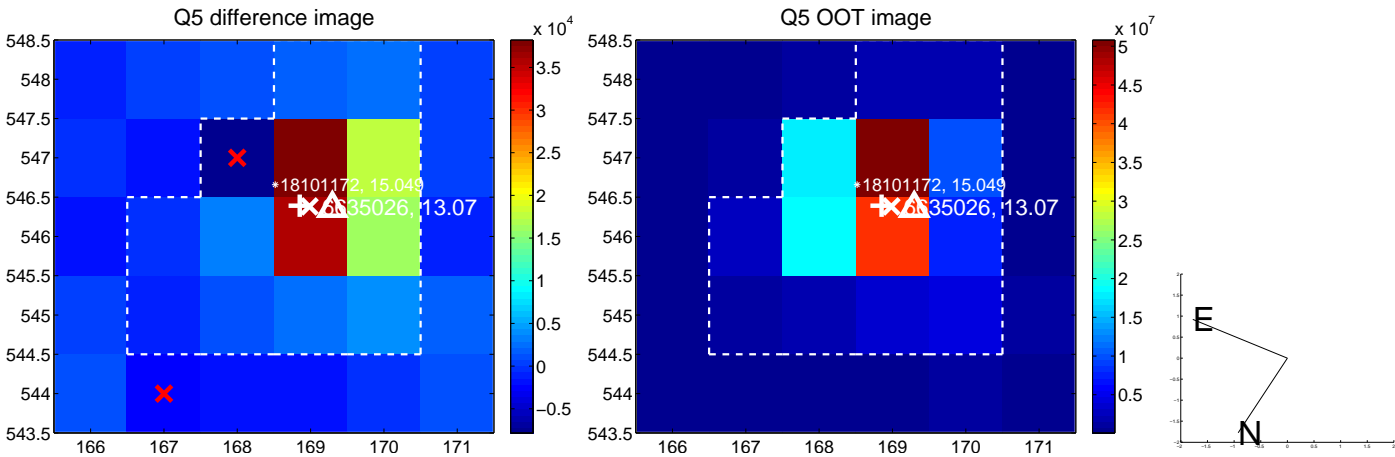


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

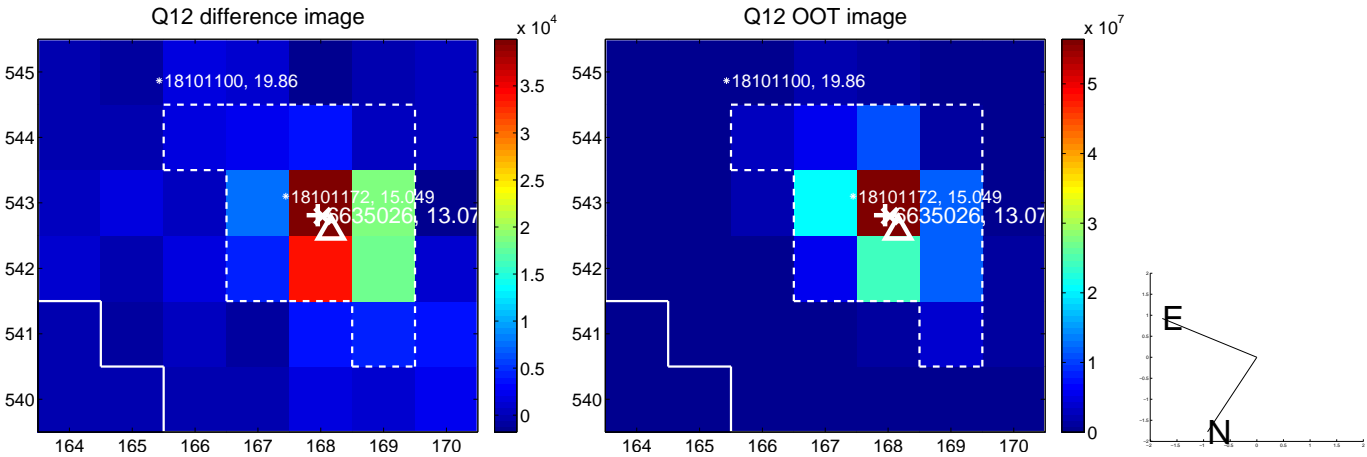
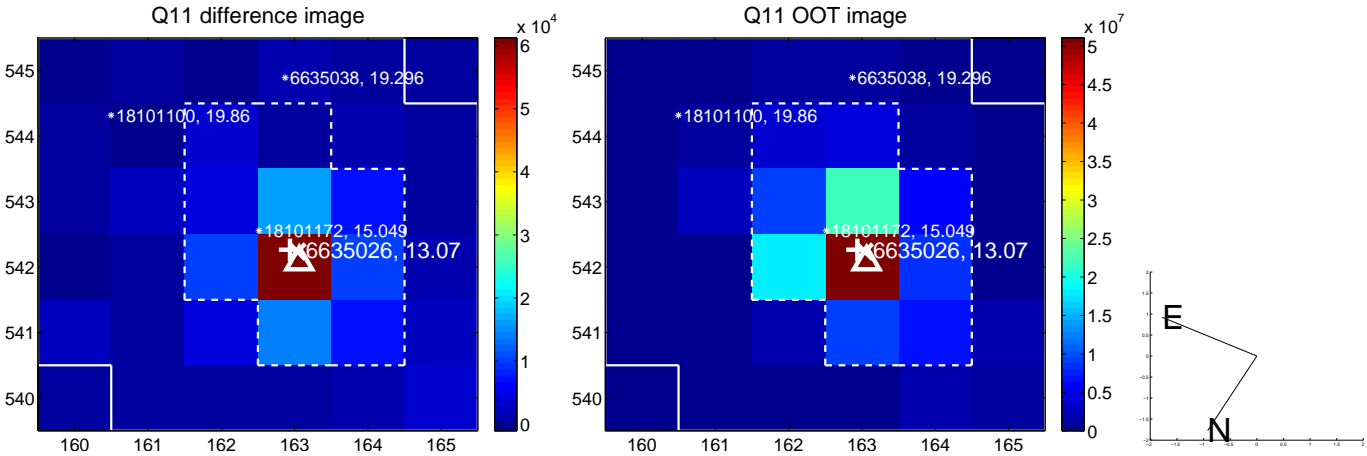
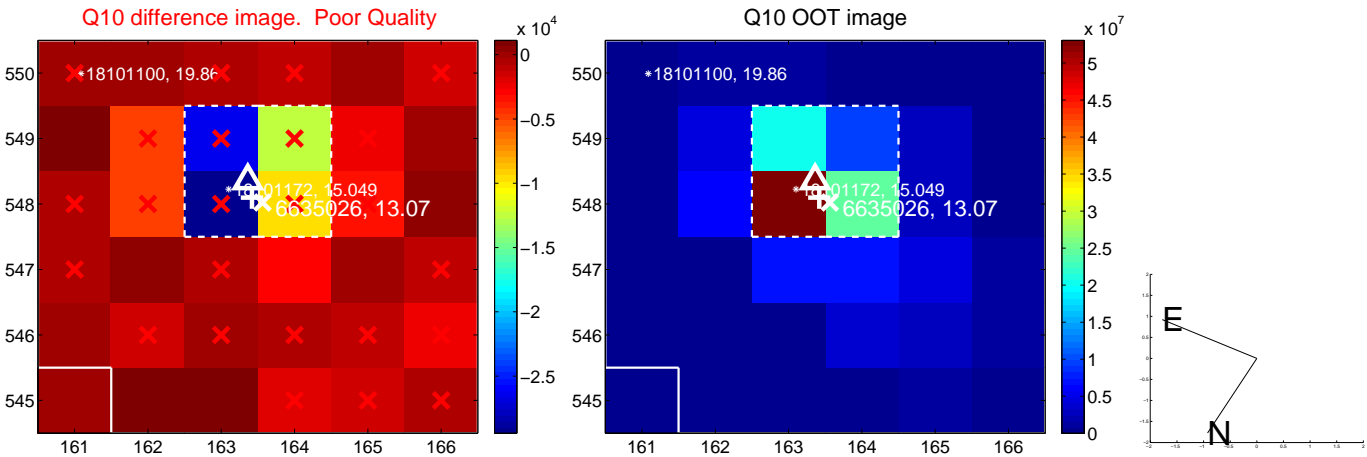
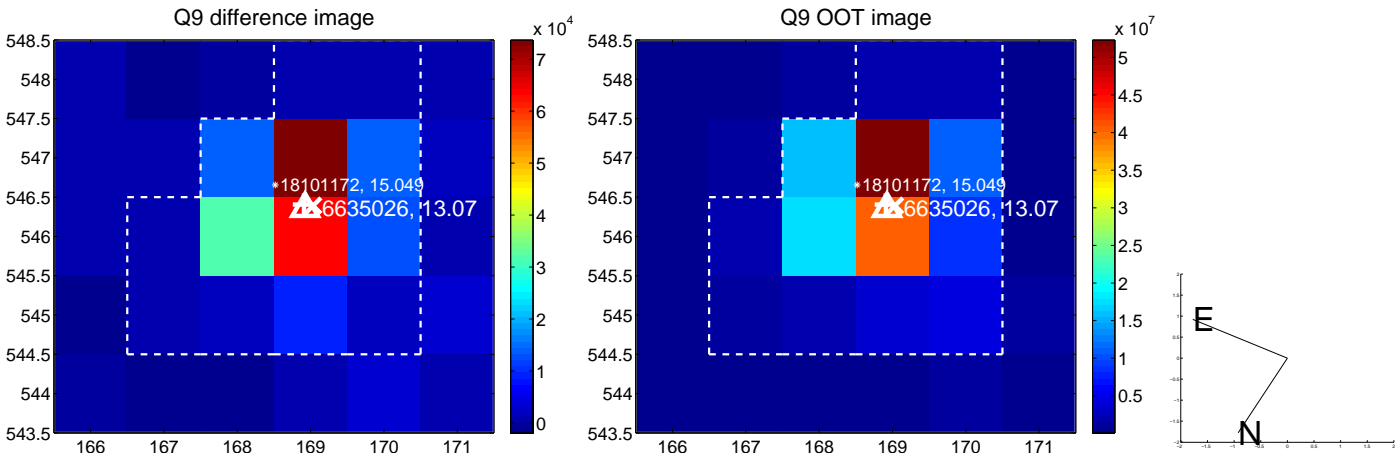
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



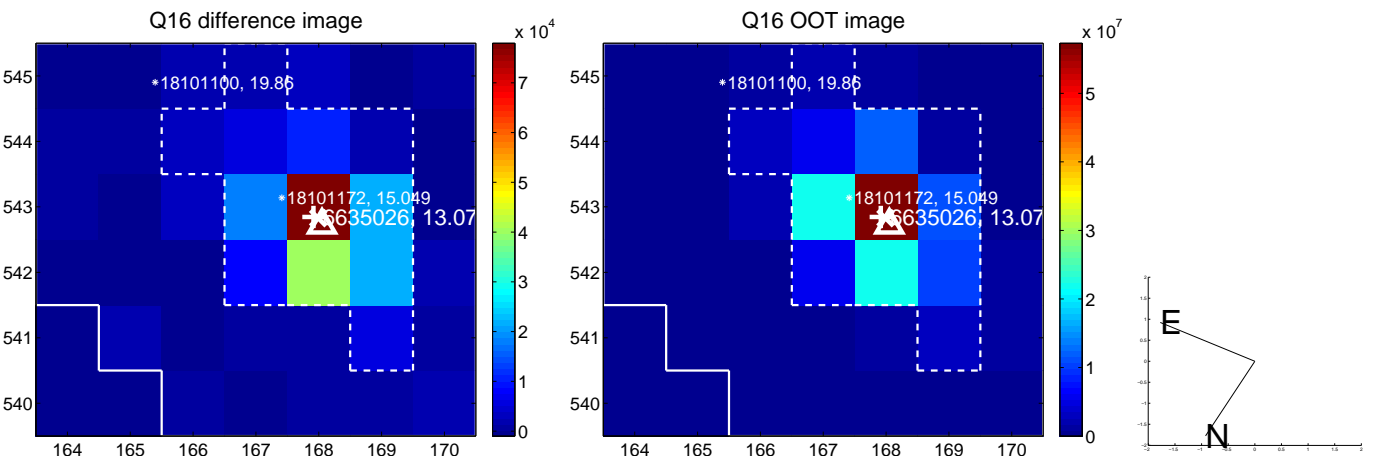
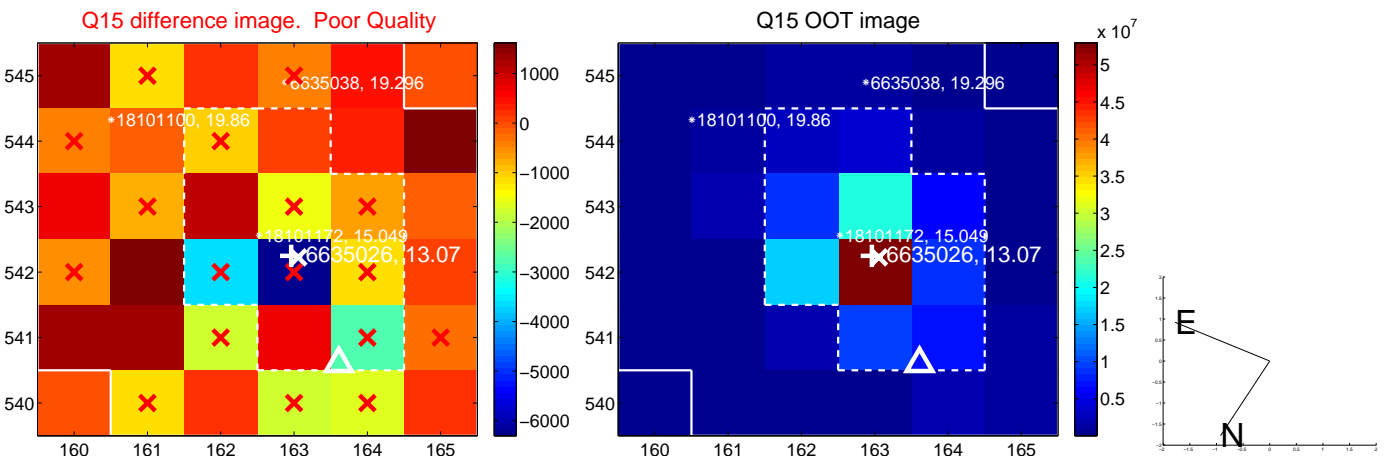
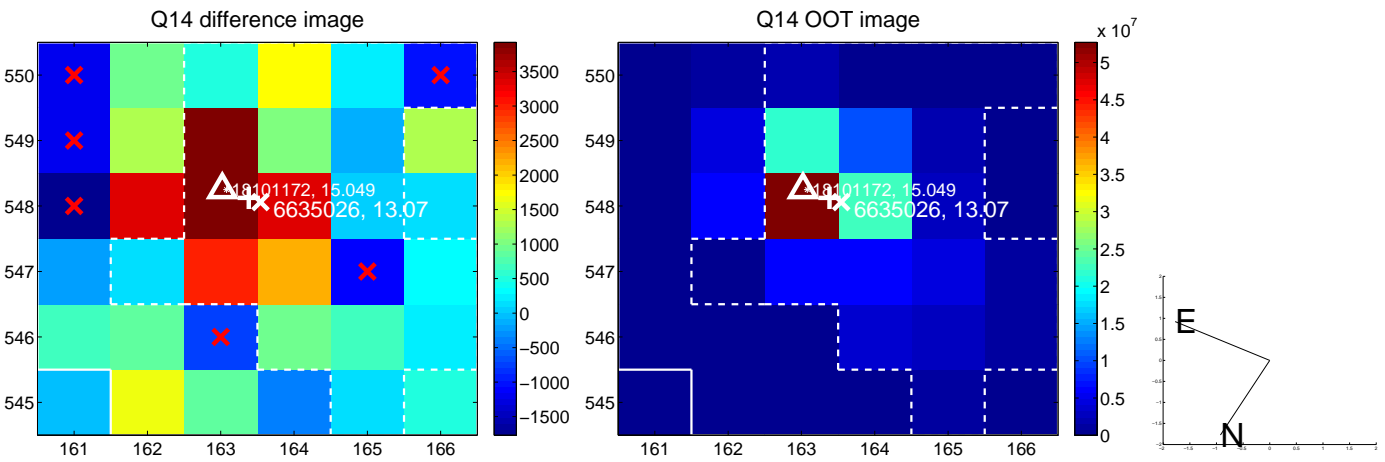
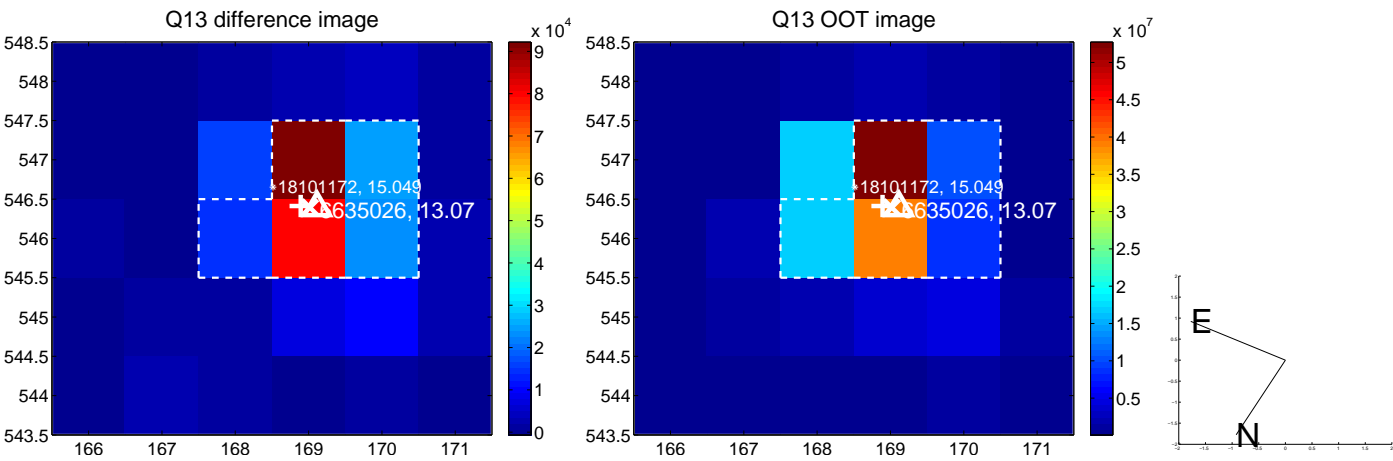
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



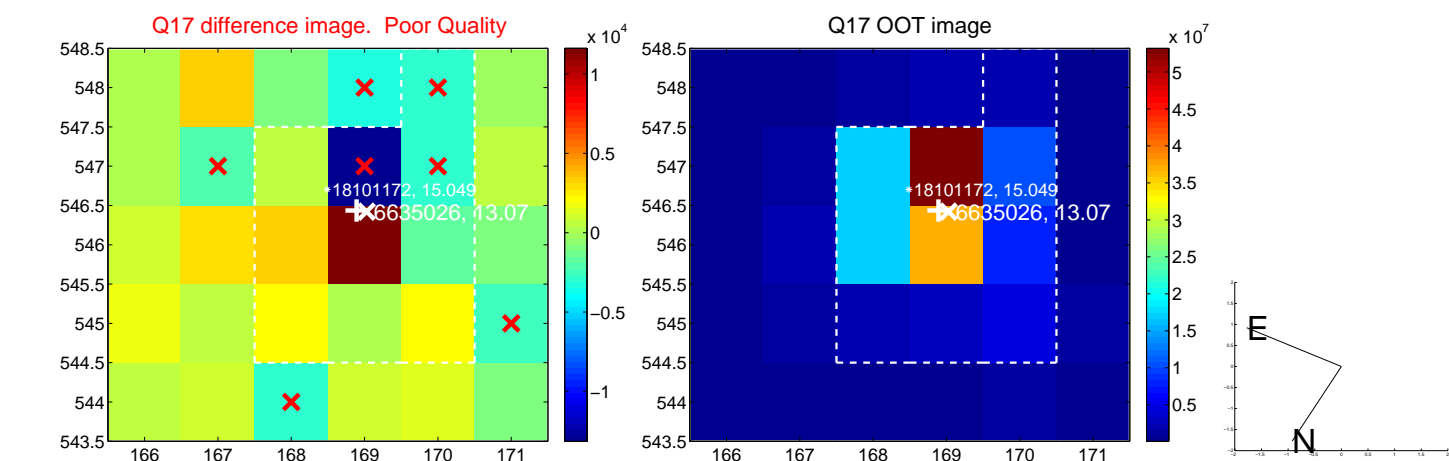
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



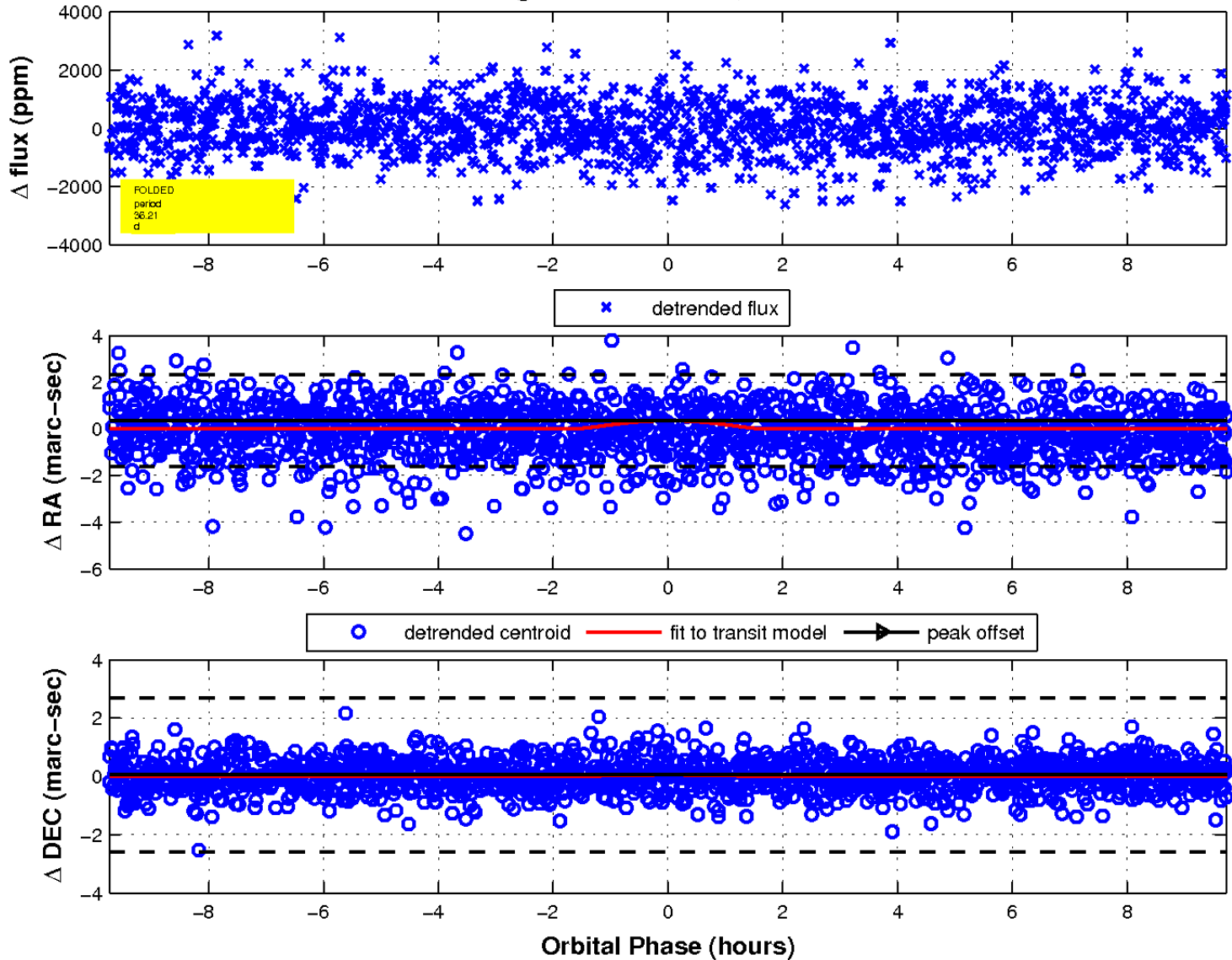
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

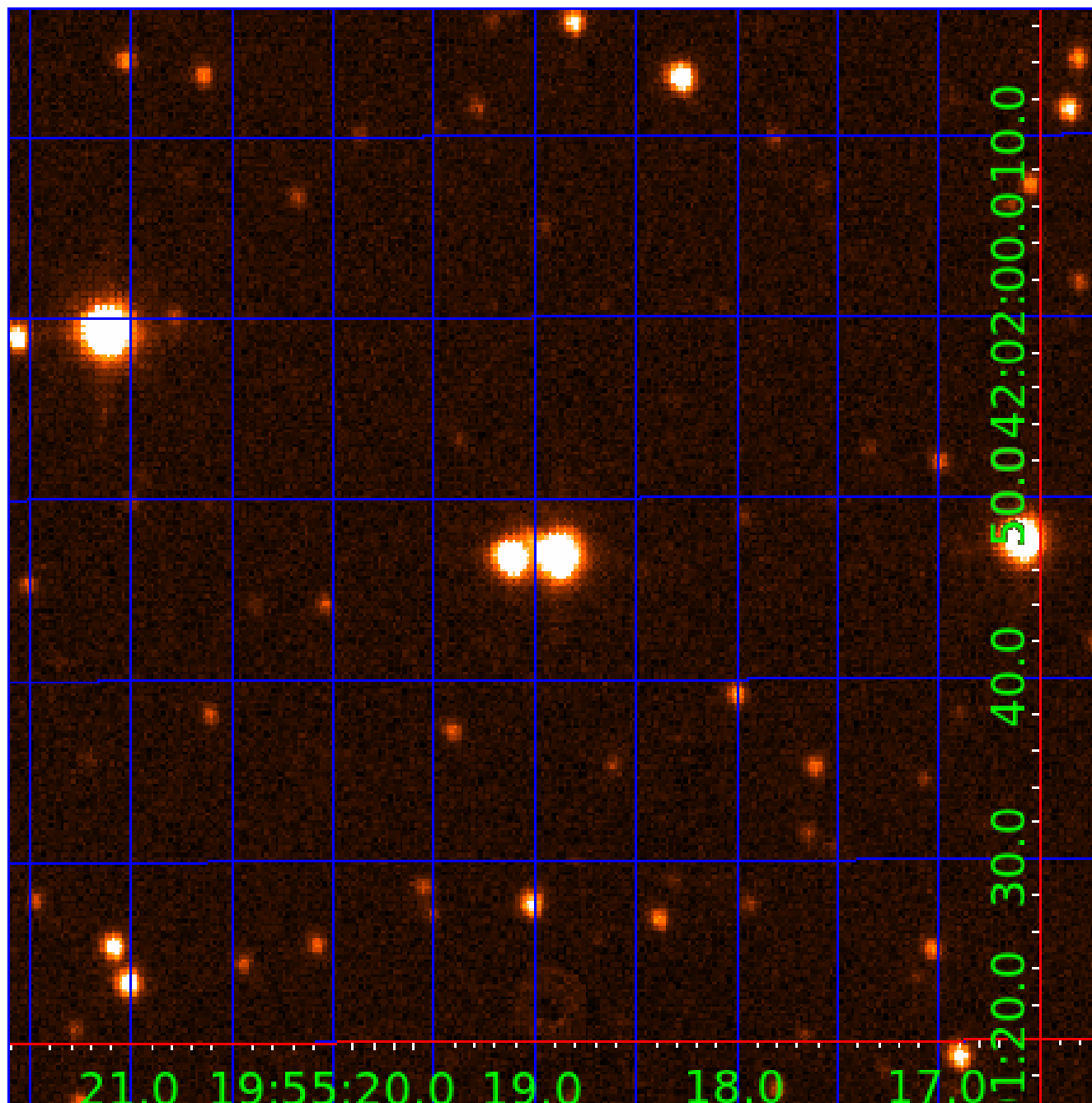


fluxWeightedCentroids, Planet 6 of 8



UKIRT Image

Declination



KIC 006635026

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})
006635026-01	OBS	No	0.723688	131.859976	109.1	4.950	17.4	11.8	2.31	7485	2.47	41623.07
006635026-02	OBS	No	140.939510	227.746688	2913.0	2.723	15.6	14.5	2.31	7485	13.93	36.87
006635026-03	OBS	No	38.428035	143.056910	1806.0	4.305	12.5	13.9	2.31	7485	11.32	208.55
006635026-04	OBS	No	60.219450	138.742859	2649.4	1.049	13.6	11.5	2.31	7485	12.25	114.57
006635026-05	OBS	No	26.980444	145.913094	1970.5	1.300	11.3	11.5	2.31	7485	10.74	334.20
006635026-06	OBS	No	36.206055	155.848699	1444.1	3.245	9.8	9.4	2.31	7485	13.34	225.78
006635026-07	OBS	No	135.464597	151.815020	1424.1	8.019	9.2	9.7	2.31	7485	9.36	38.87
006635026-08	OBS	No	80.986429	157.236489	1366.0	11.106	9.4	8.6	2.31	7485	8.86	77.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006635026-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_KIC_POS
006635026-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
006635026-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_KIC_POS
006635026-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

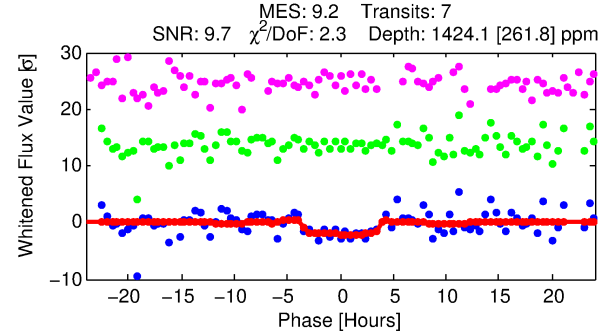
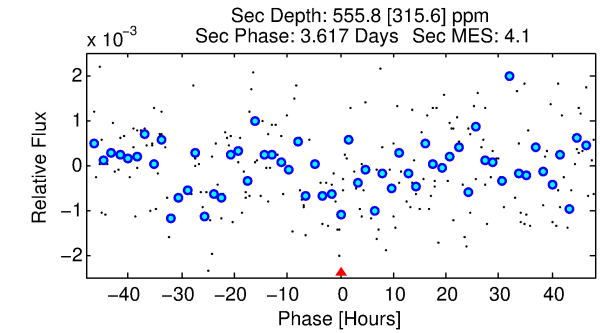
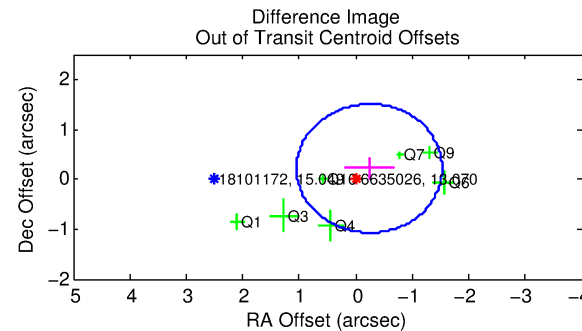
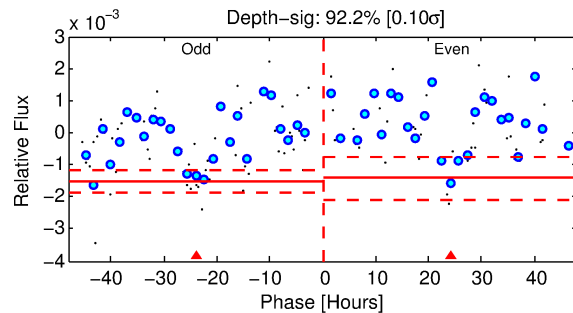
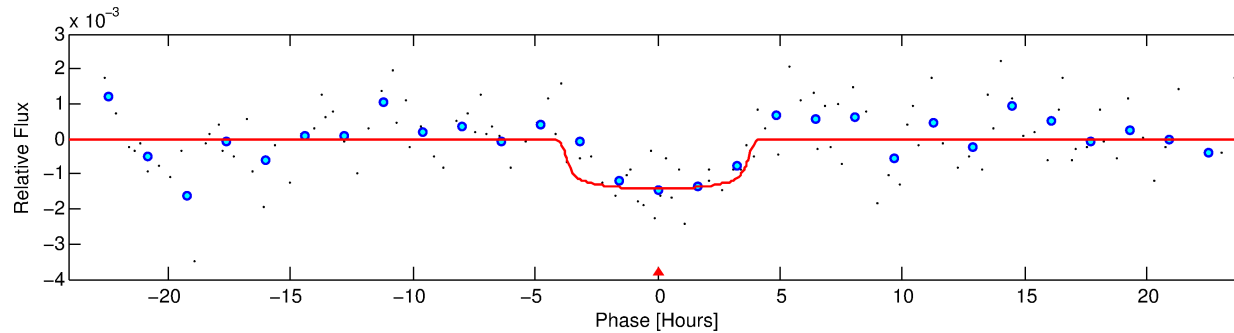
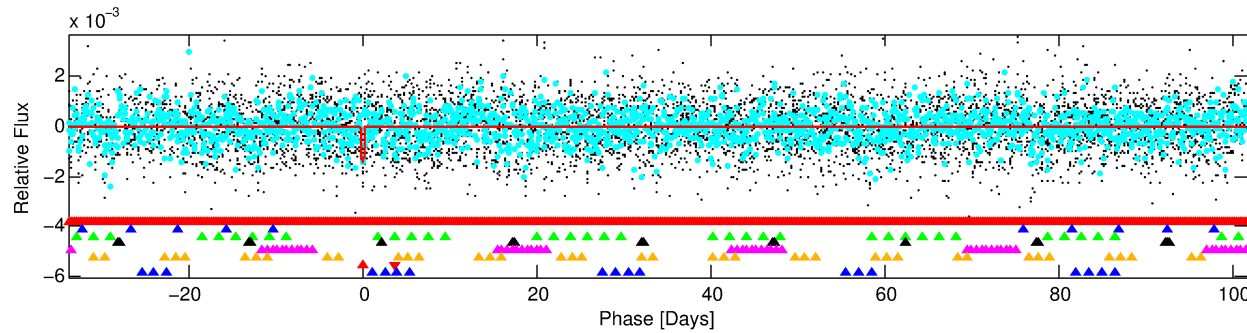
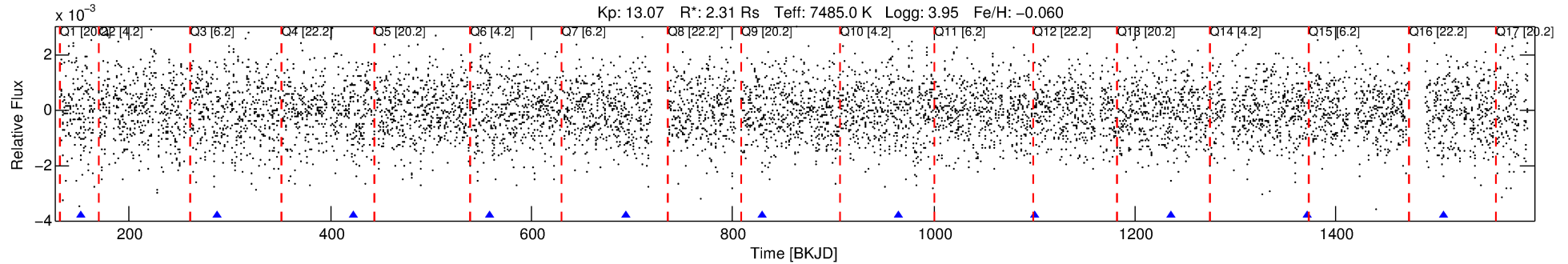
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006635026-07

No Significant Match Found

DV One-Page Summary

KIC: 6635026 Candidate: 7 of 8 Period: 135.465 d



DV Fit Results:

Period = 135.46460 [0.00543] d
Epoch = 151.8150 [0.0347] BKJD
Rp/R* = 0.0371 [0.0091]
a/R* = 98.15 [132.11]
b = 0.71 [0.96]
Seff = 38.87 [19.06]
Teq = 637 [78] K
Rp = 9.36 [3.84] Re
a = 0.6213 [0.1842] AU
Ag = 1348.49 [1184.64] [1.14 σ]
Teffp = 5965 [1153] K [4.61 σ]

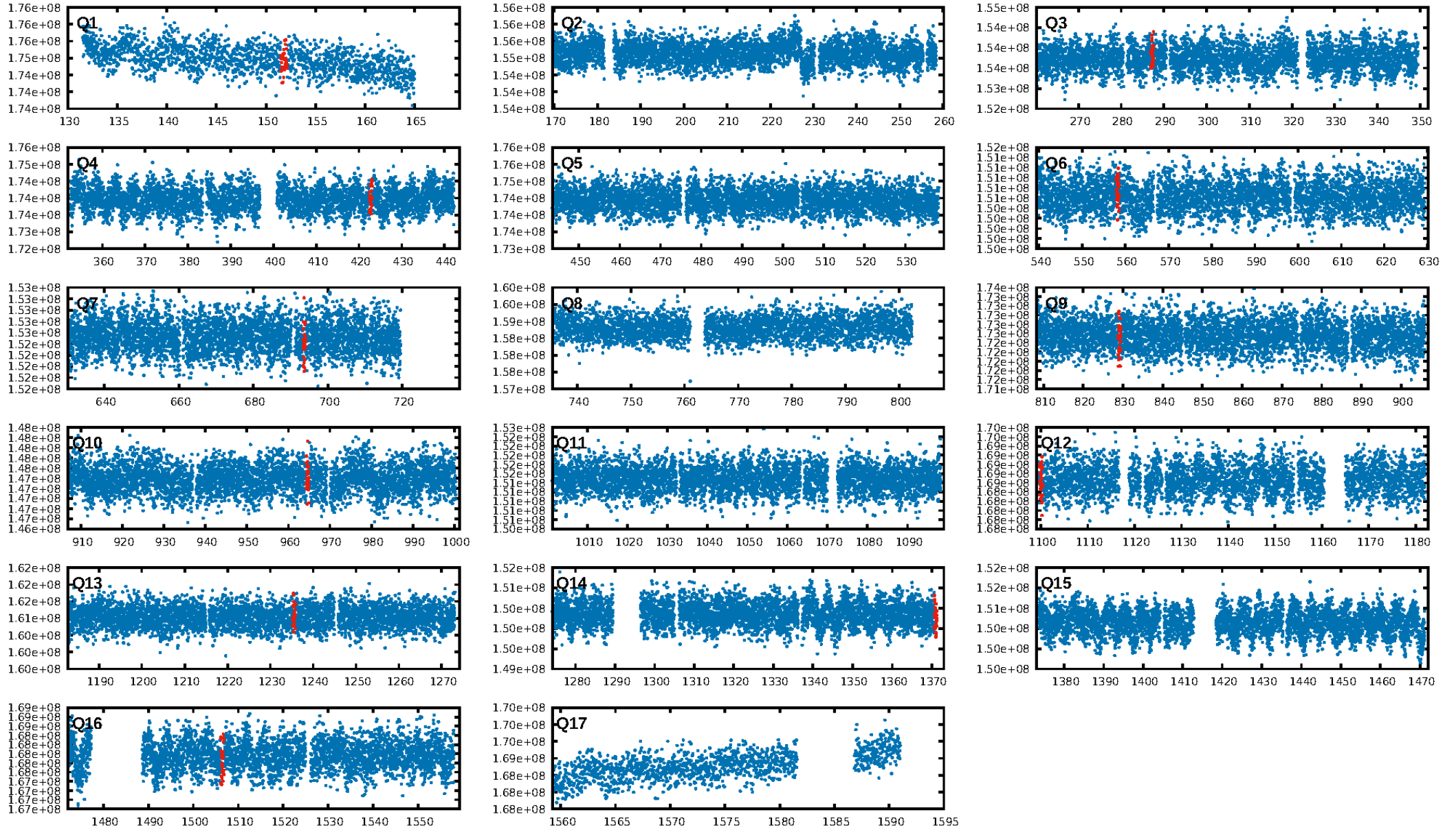
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [95.45 σ]
LongPeriod-sig: 100.0% [15.52 σ]
ModelChiSquare2-sig: 65.3%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.32e-08
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: 1.117
Centroid-sig: 0.6%
Centroid-so: 0.131 arcsec [1.25 σ]
OotOffset-rm: 0.321 arcsec [0.75 σ]
KicOffset-rm: 0.335 arcsec [1.25 σ]
OotOffset-st: 1/2/2/2 [7]
KicOffset-st: 1/2/2/2 [7]
DiffImageQuality-fgm: 1.00 [7/7]
DiffImageOverlap-fno: 0.00 [0/9]

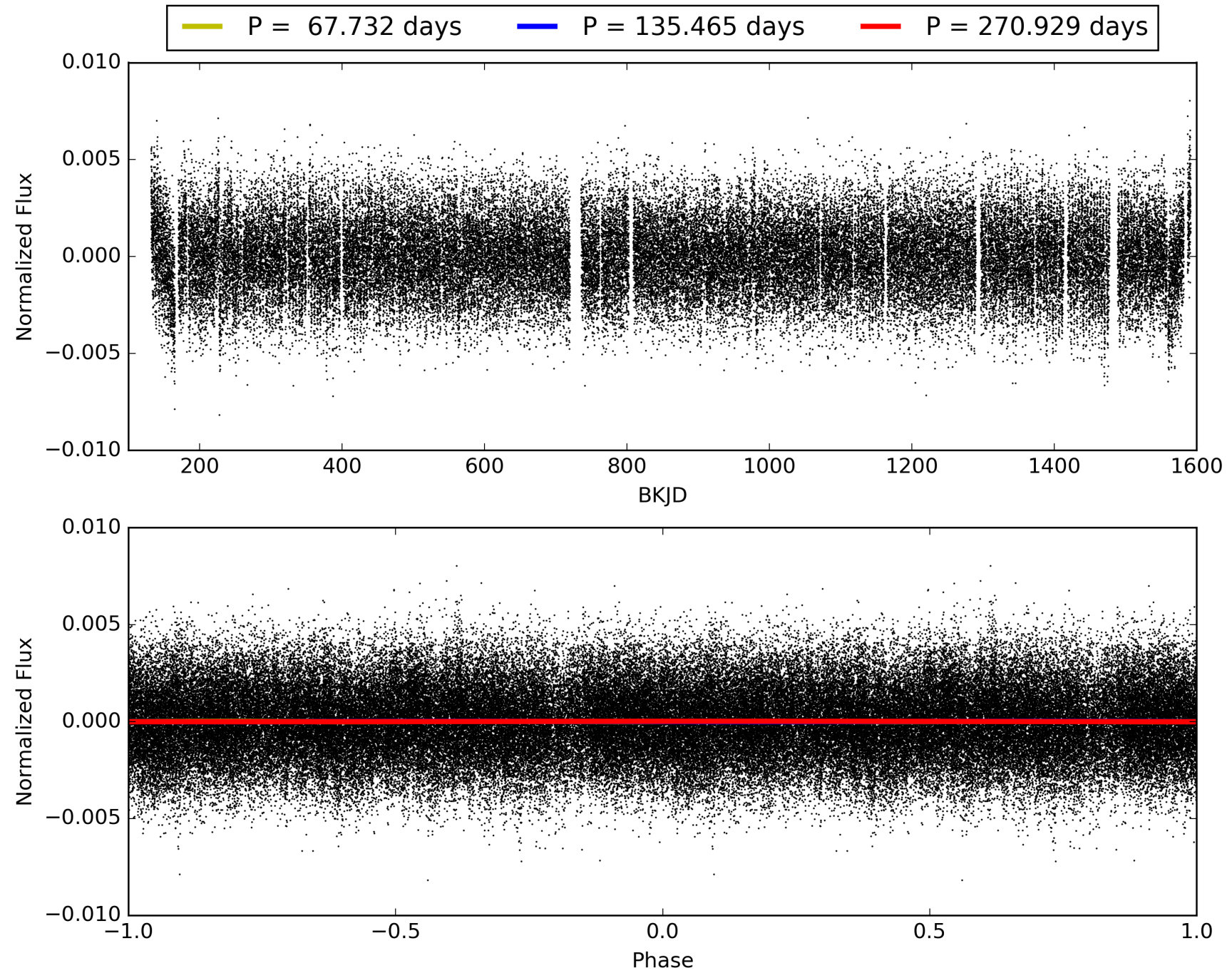
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:19:59 Z

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

TCE 006635026-07, PDC Light Curves

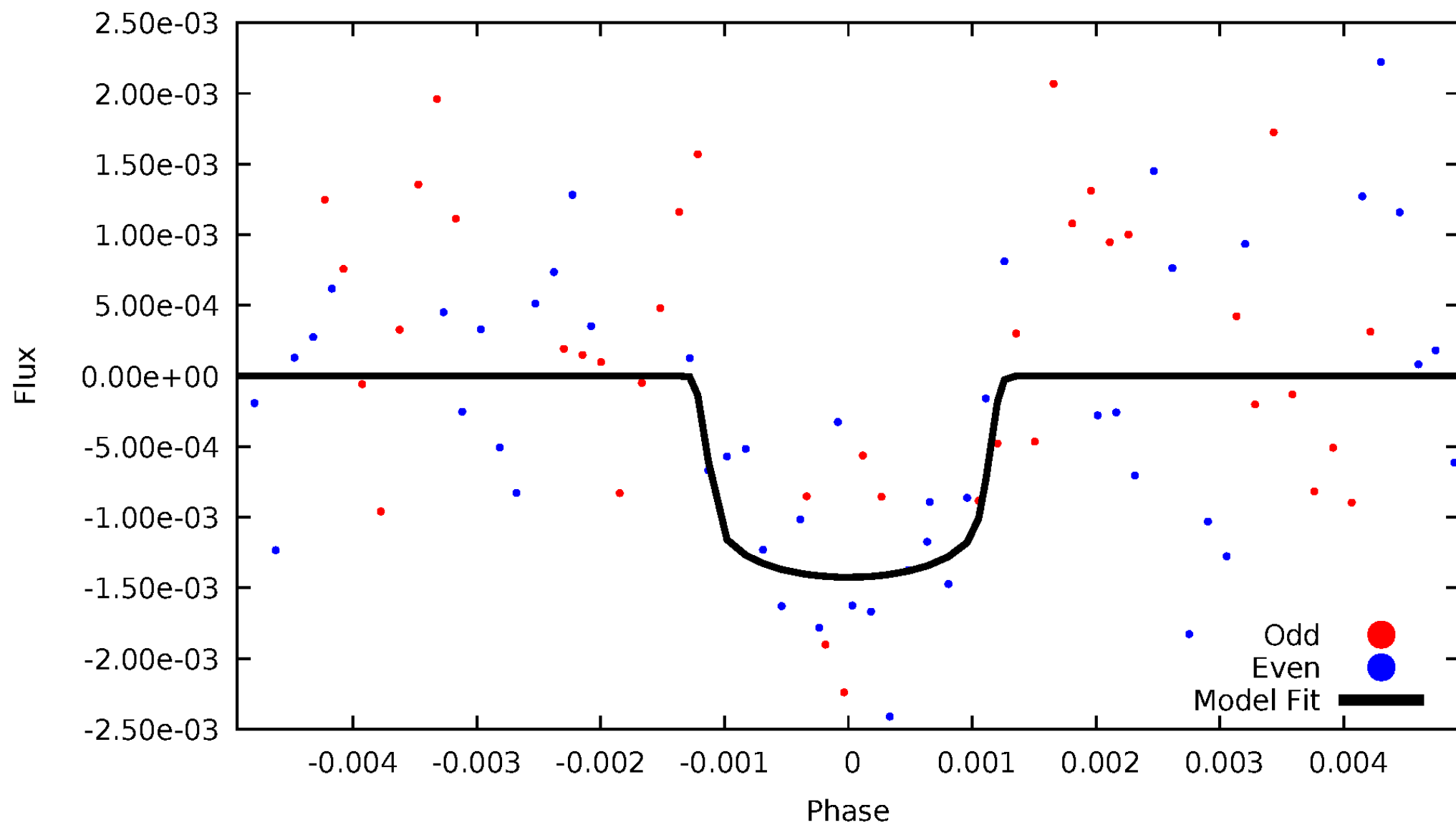


TCE 006635026-07



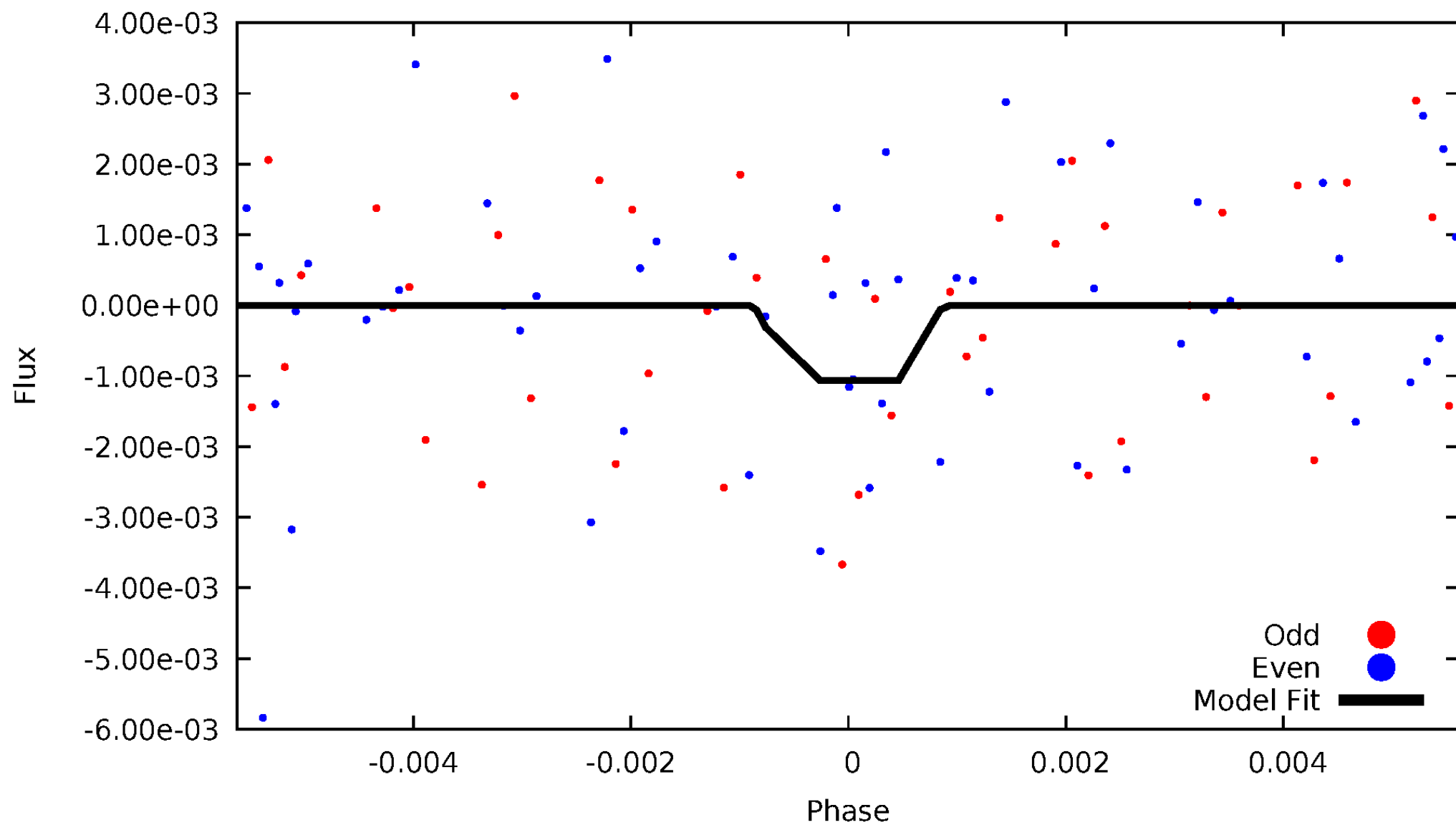
DV Odd/Even

TCE 006635026-07



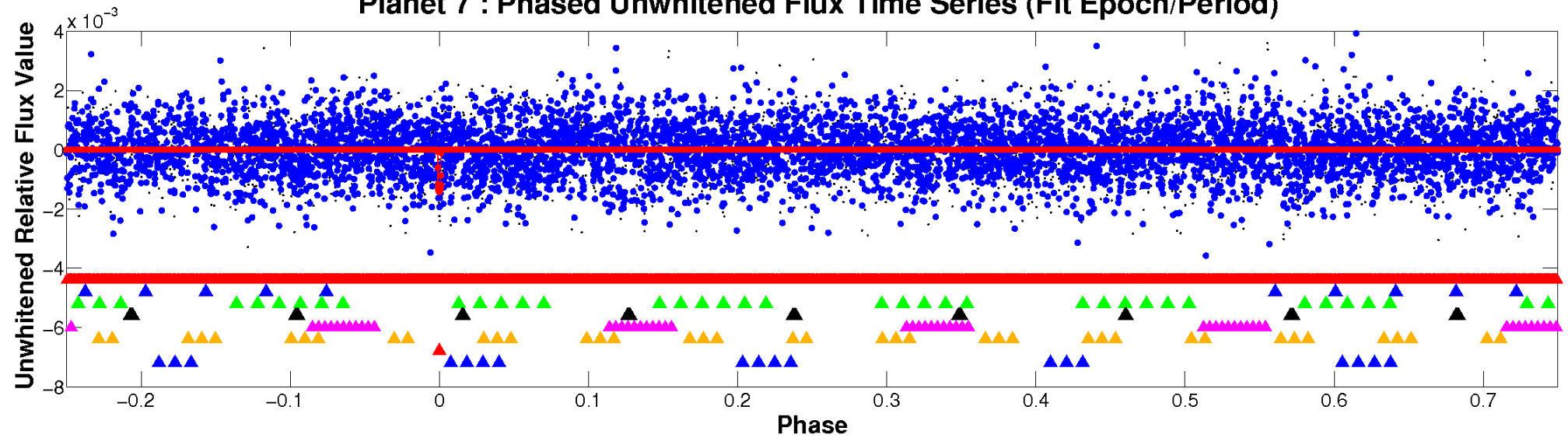
ALT Odd/Even

TCE 006635026-07

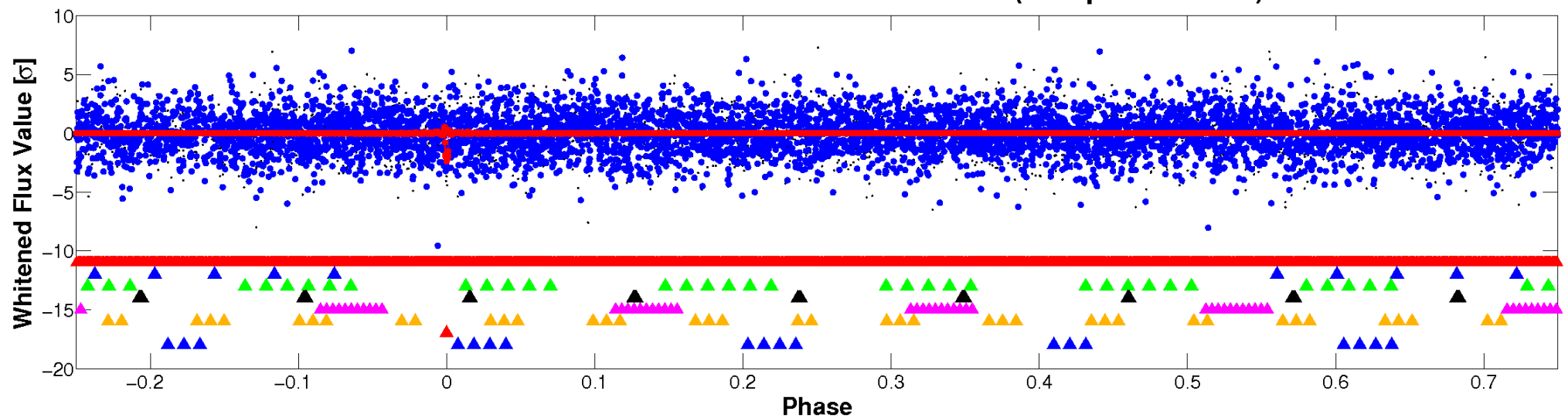


Non-Whitened Vs. Whitened Light Curve

Planet 7 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

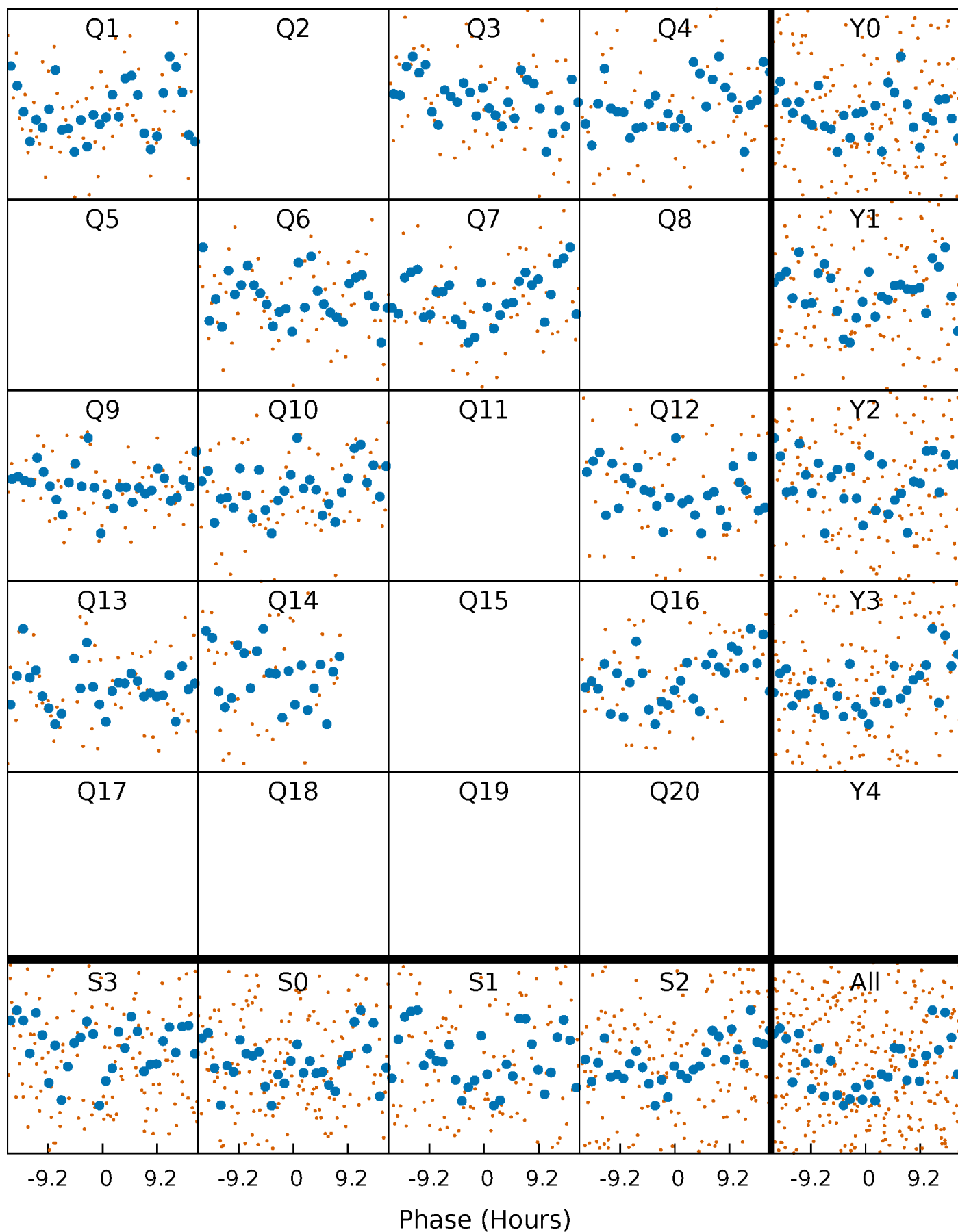


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



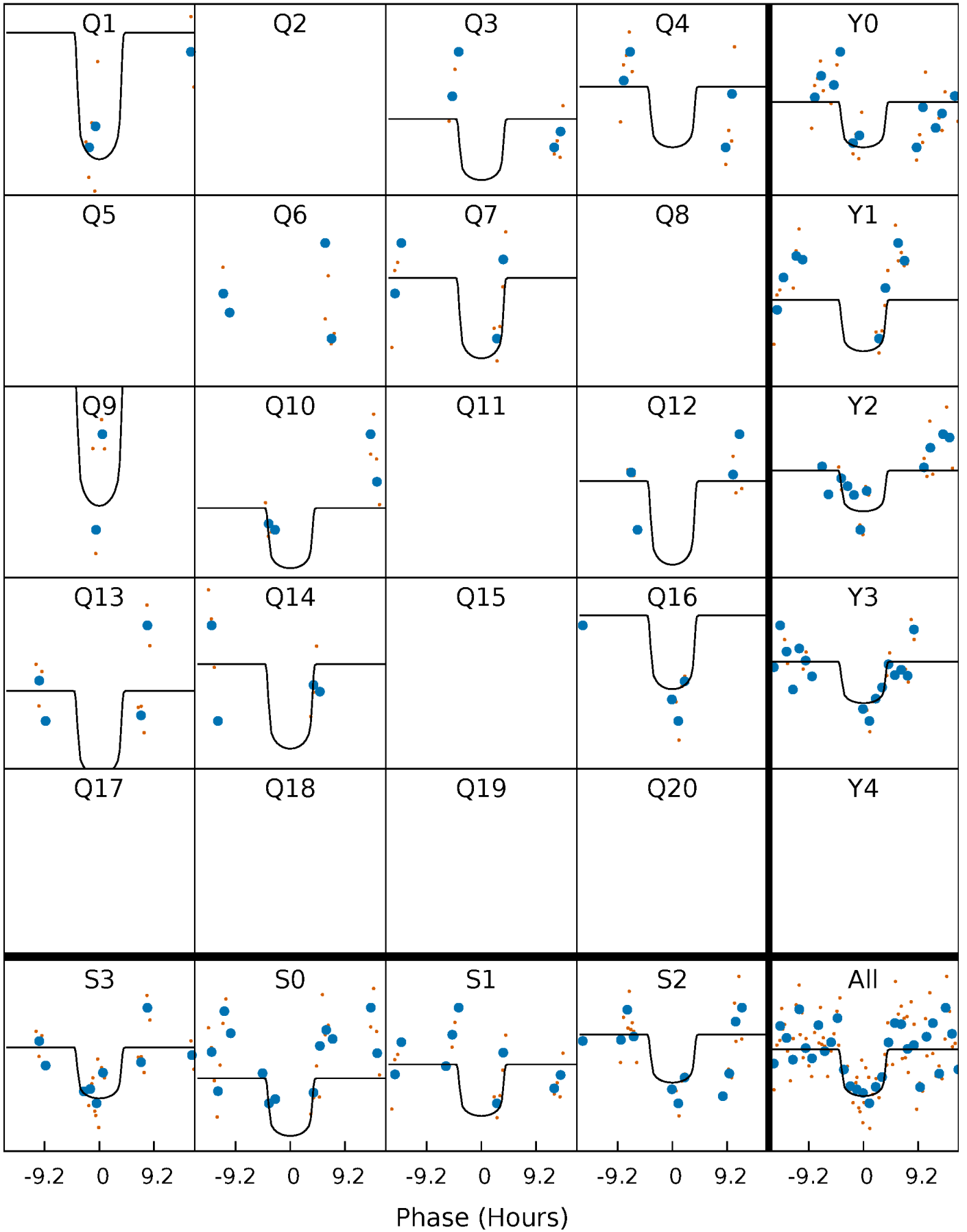
PDC Quarter-Phased Transit Curves

TCE 006635026-07 P=135.464597 Days $T_0=151.815020$ (BKJD)



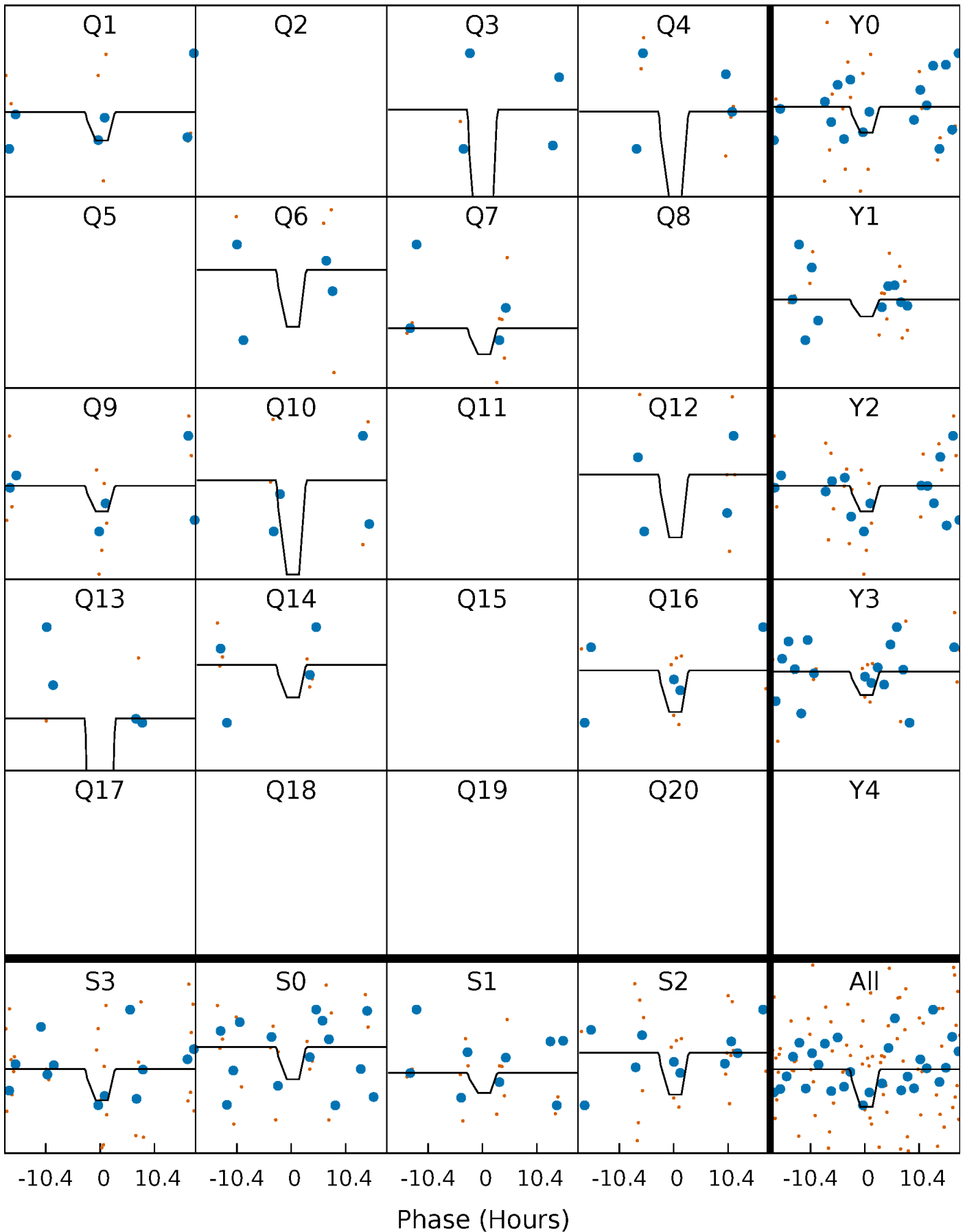
DV Quarter-Phased Transit Curves

TCE 006635026-07 $P=135.464597$ Days $T_0=151.815020$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

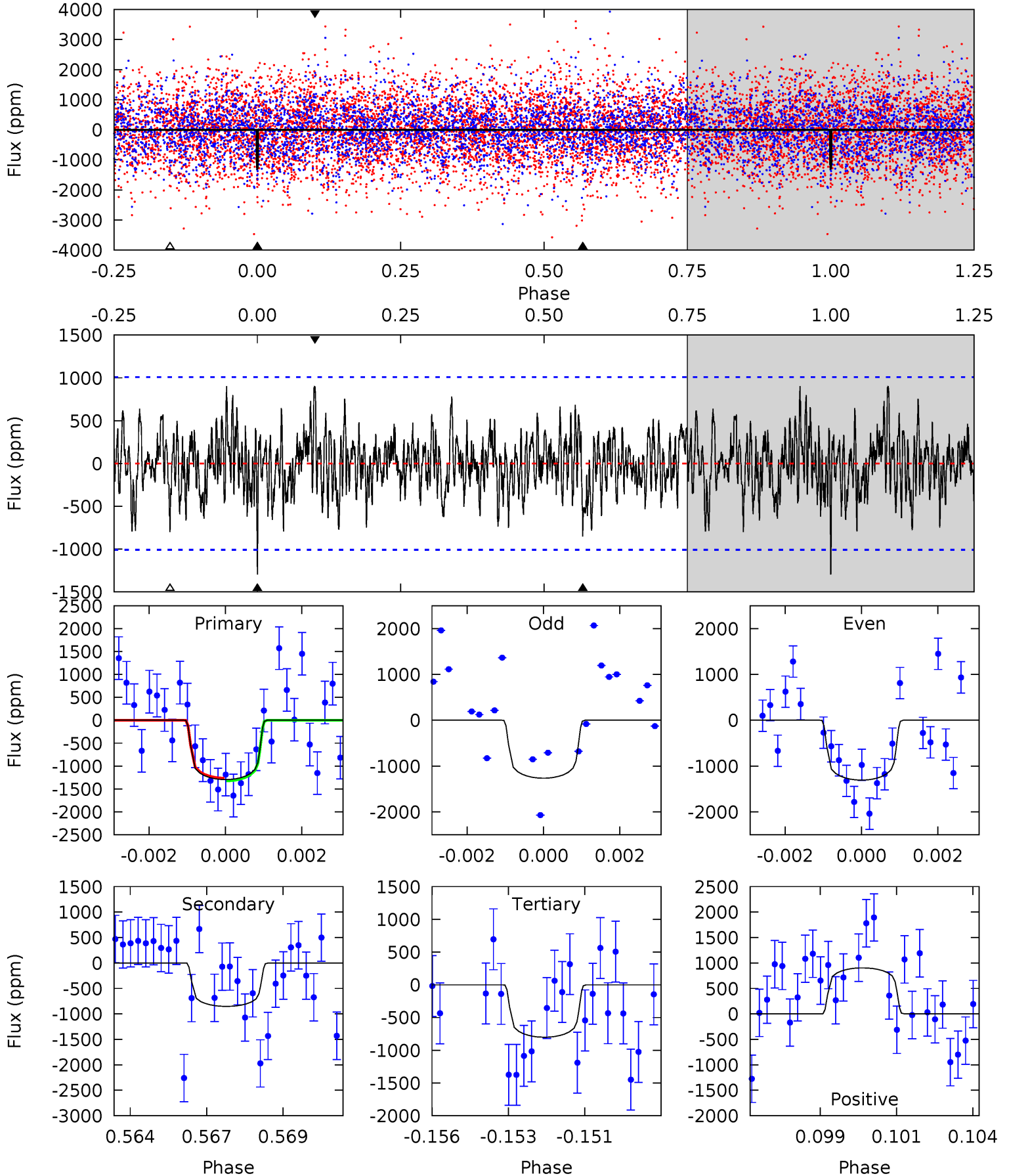
TCE 006635026-07 P=135.472842 Days $T_0=151.756445$ (BKJD)



DV Model-Shift Uniqueness Test

006635026-07, P = 135.464597 Days, E = 16.350423 Days

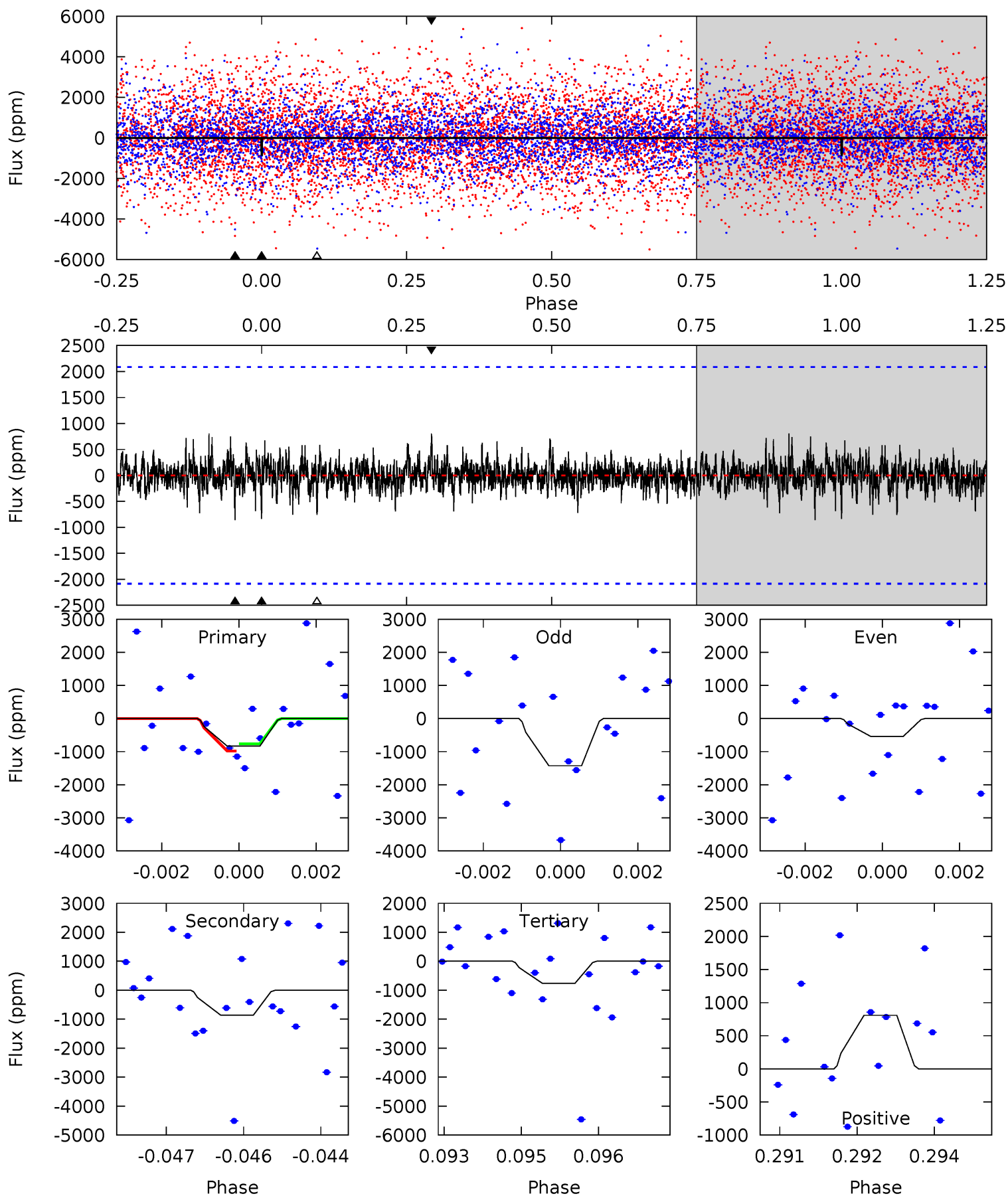
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.79	4.47	4.20	4.74	5.29	3.03	1.48	2.59	2.05	0.27	-0.27	0.10	0.98	0.41	0.15



Alt Model-Shift Uniqueness Test

006635026-07, P = 135.472842 Days, E = 16.283603 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.14	2.21	1.95	2.07	5.36	3.14	0.53	0.20	0.07	0.26	0.13	1.07	1.16	0.48	0.28



Stellar Parameters For KIC 006635026

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7485^{+209}_{-340}	$3.952^{+0.260}_{-0.140}$	$-0.060^{+0.200}_{-0.400}$	$2.310^{+0.507}_{-0.760}$	$1.743^{+0.195}_{-0.363}$	$0.199^{+0.337}_{-0.084}$
	+3%/-5%	+7%/-4%	+333%/-667%	+22%/-33%	+11%/-21%	+169%/-42%
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 006635026-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-852 ± 191	$8.97^{+2.95}_{-2.71}$	879^{+61}_{-75}	6567^{+1260}_{-847}	2226^{+2319}_{-1029}
Alt.	-860 ± 389	$7.84^{+2.78}_{-2.34}$	878^{+60}_{-78}	6930^{+1709}_{-1213}	2774^{+3570}_{-1551}

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

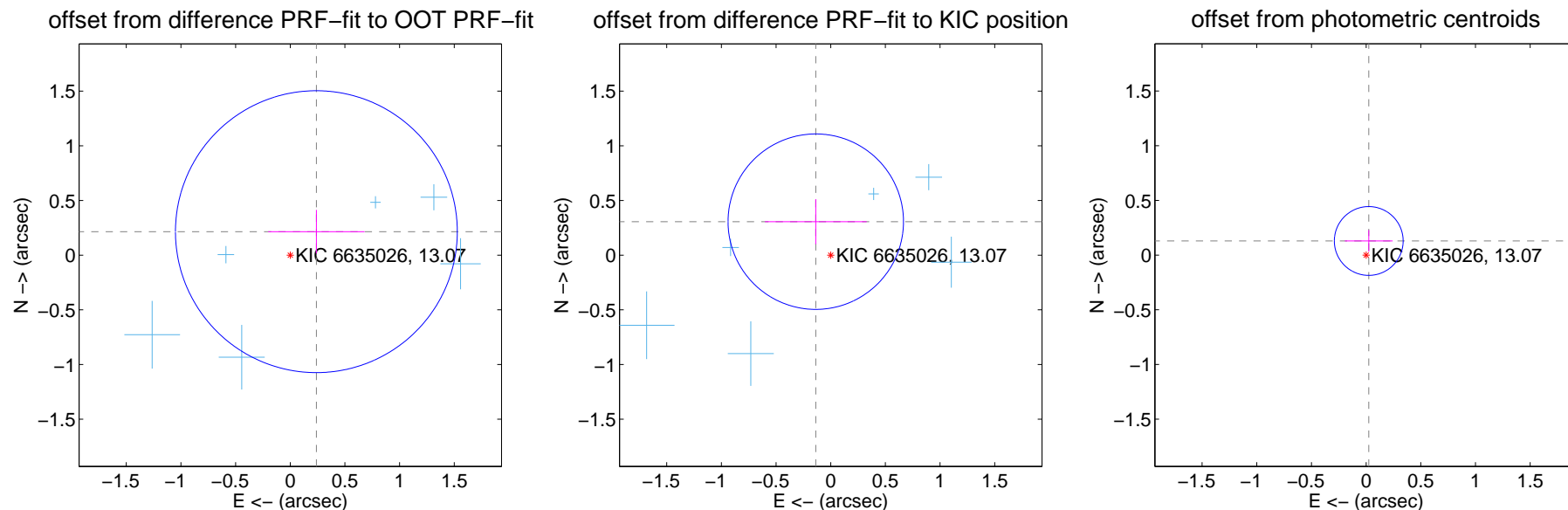
DV Centroid Data

Supplemental centroid analysis for 006635026-07. Kepler magnitude: 13.07. Transit SNR 9.67

There are 7 quarters with good PRF difference image offsets

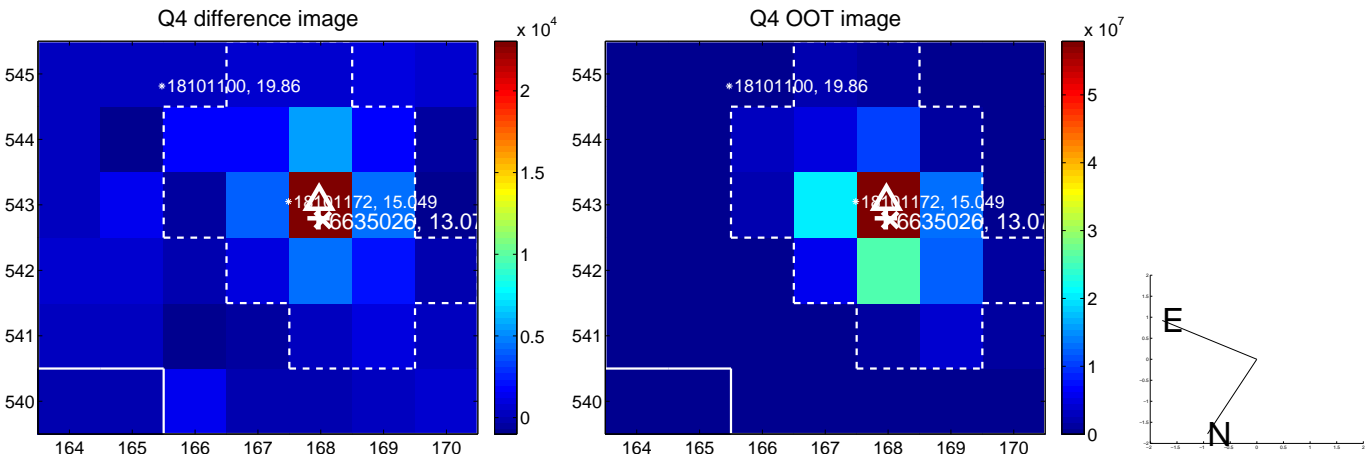
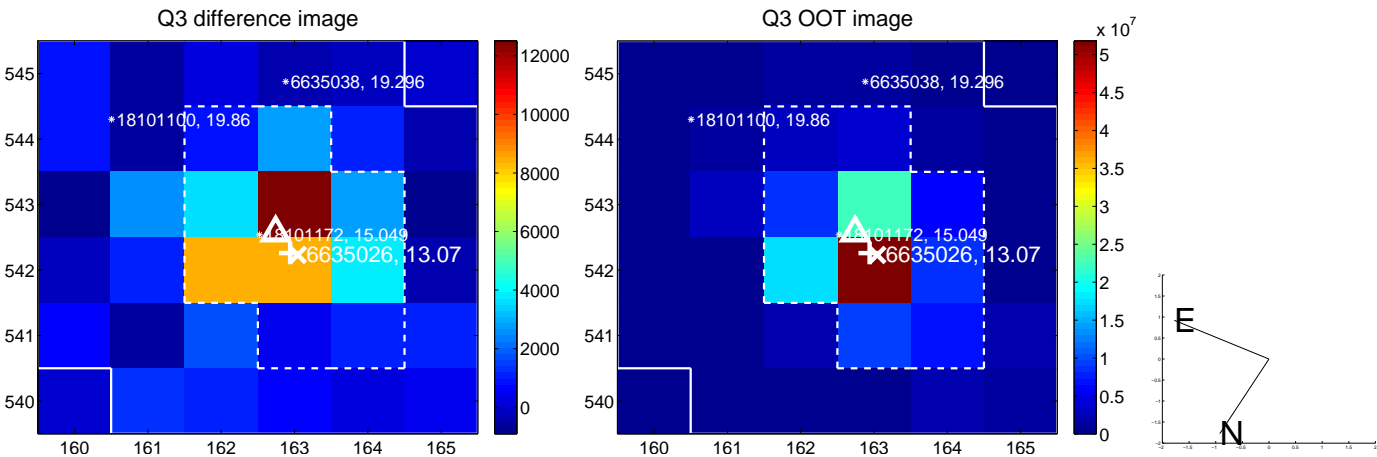
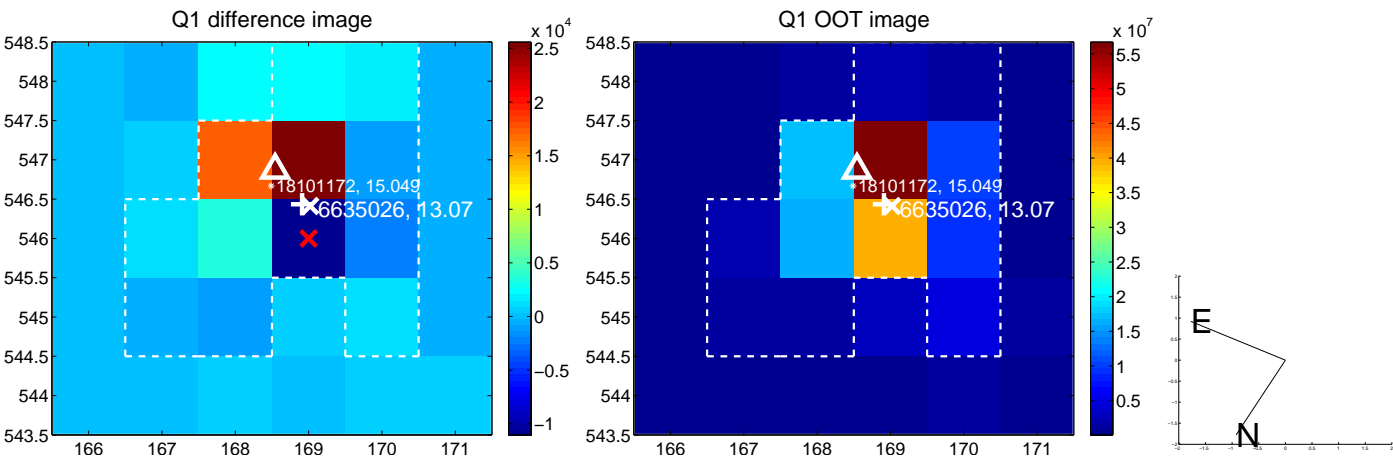
The direct PRF centroid is offset from the target star catalog position by about 0.33 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.321 ± 0.430	0.75	-0.239 ± 0.441	0.215 ± 0.199
PRF-fit source offset from KIC position	0.335 ± 0.267	1.25	0.137 ± 0.466	0.306 ± 0.206
photometric centroid source offset	0.13 ± 0.10	1.25	-0.02 ± 0.22	0.13 ± 0.10

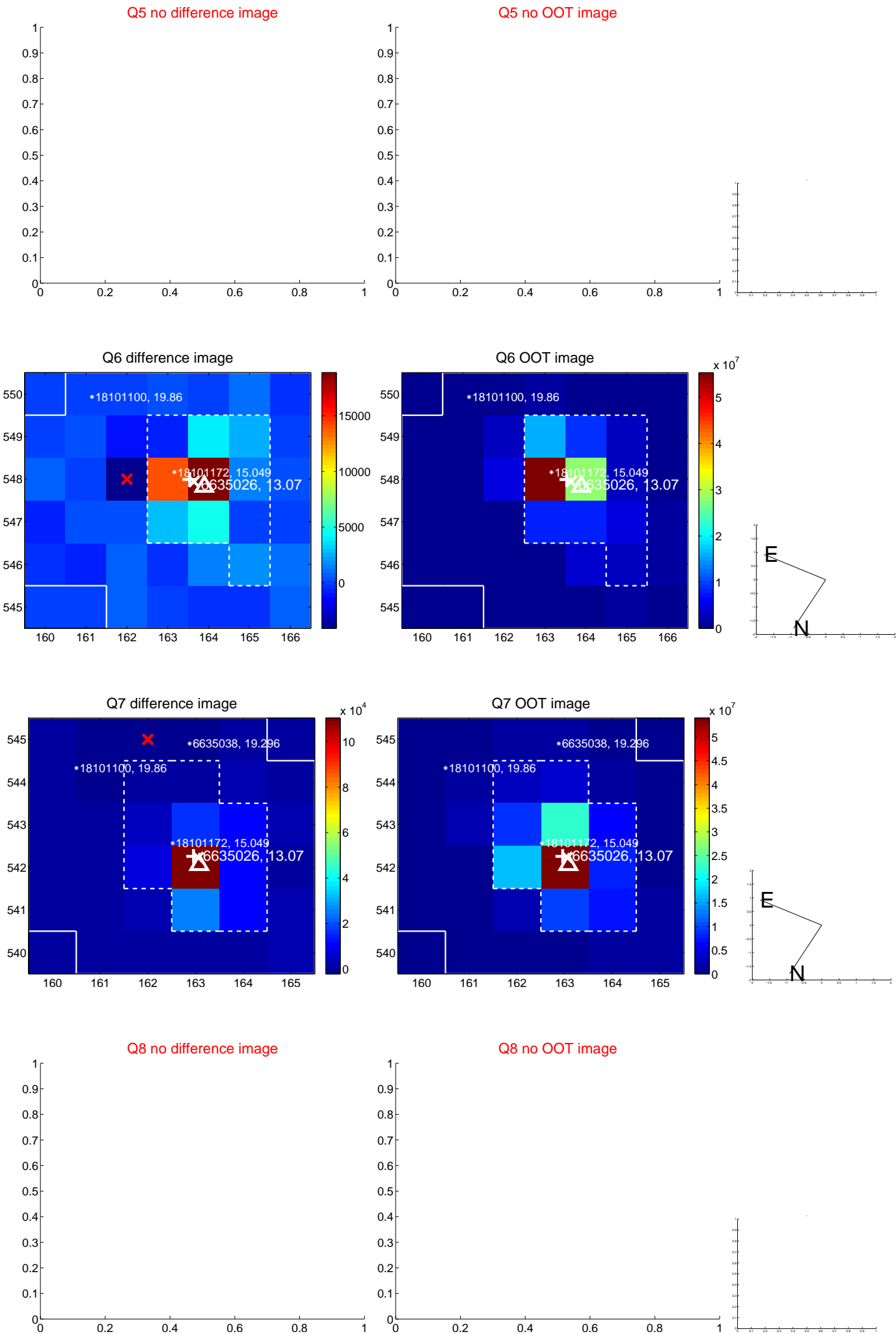


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

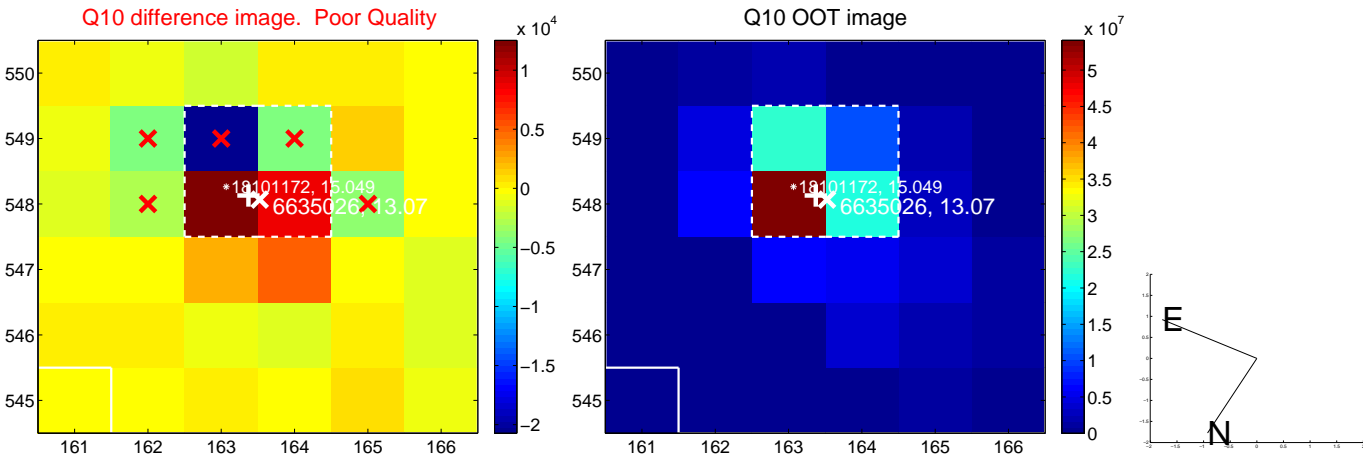
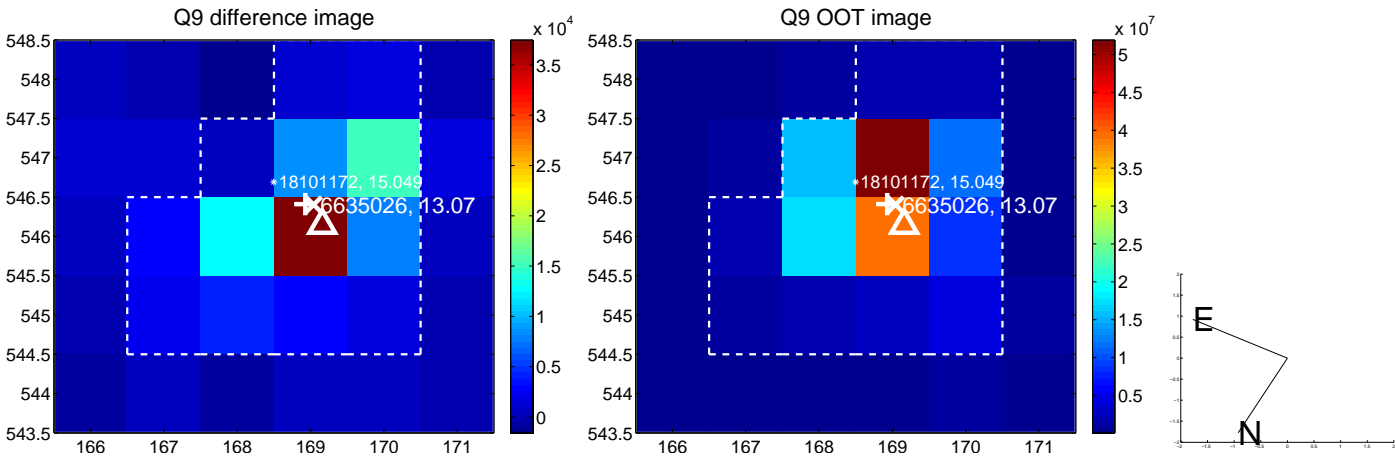
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



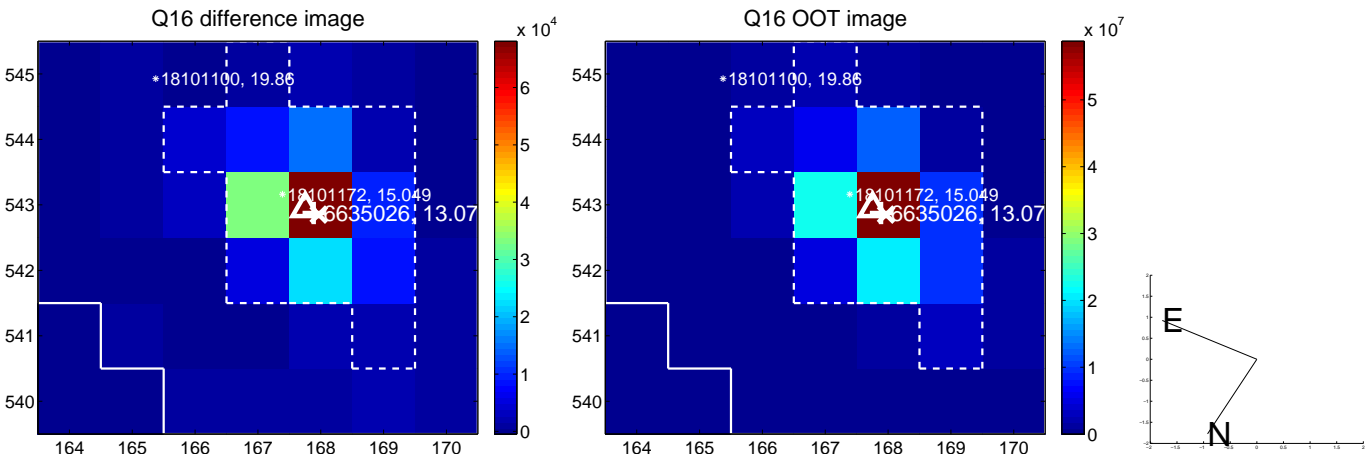
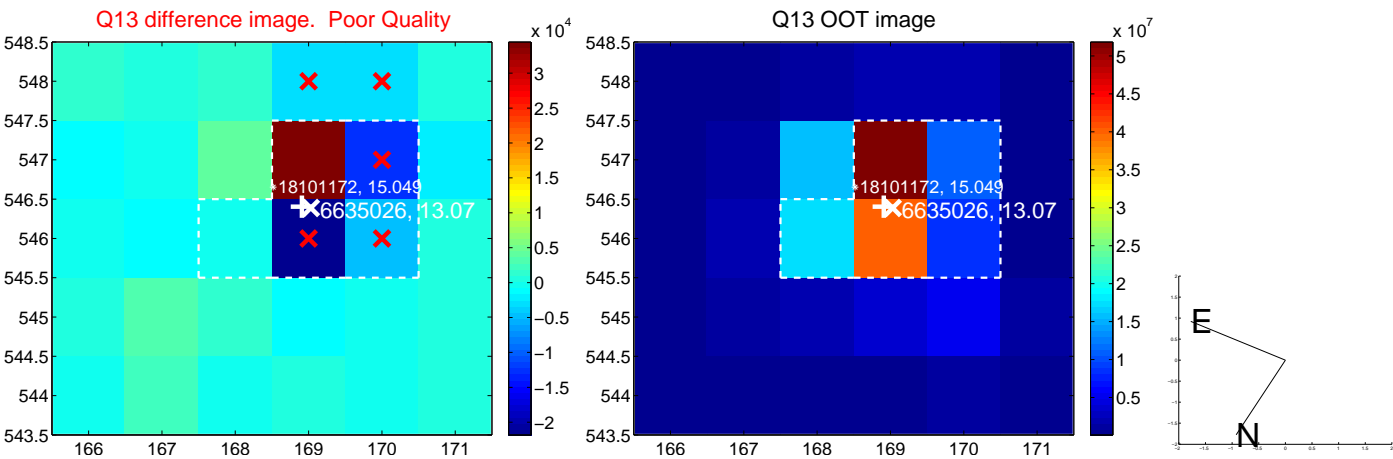
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



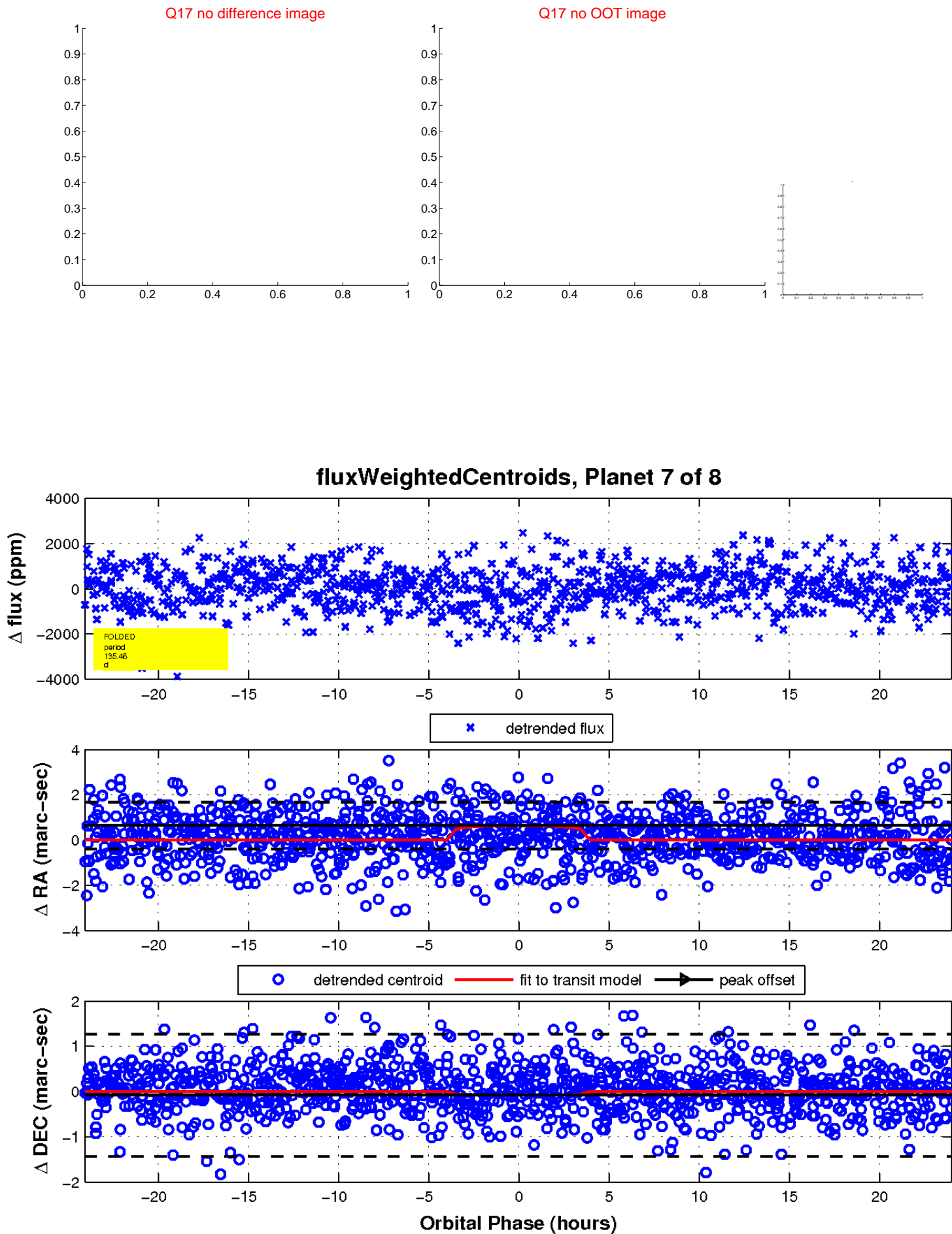
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

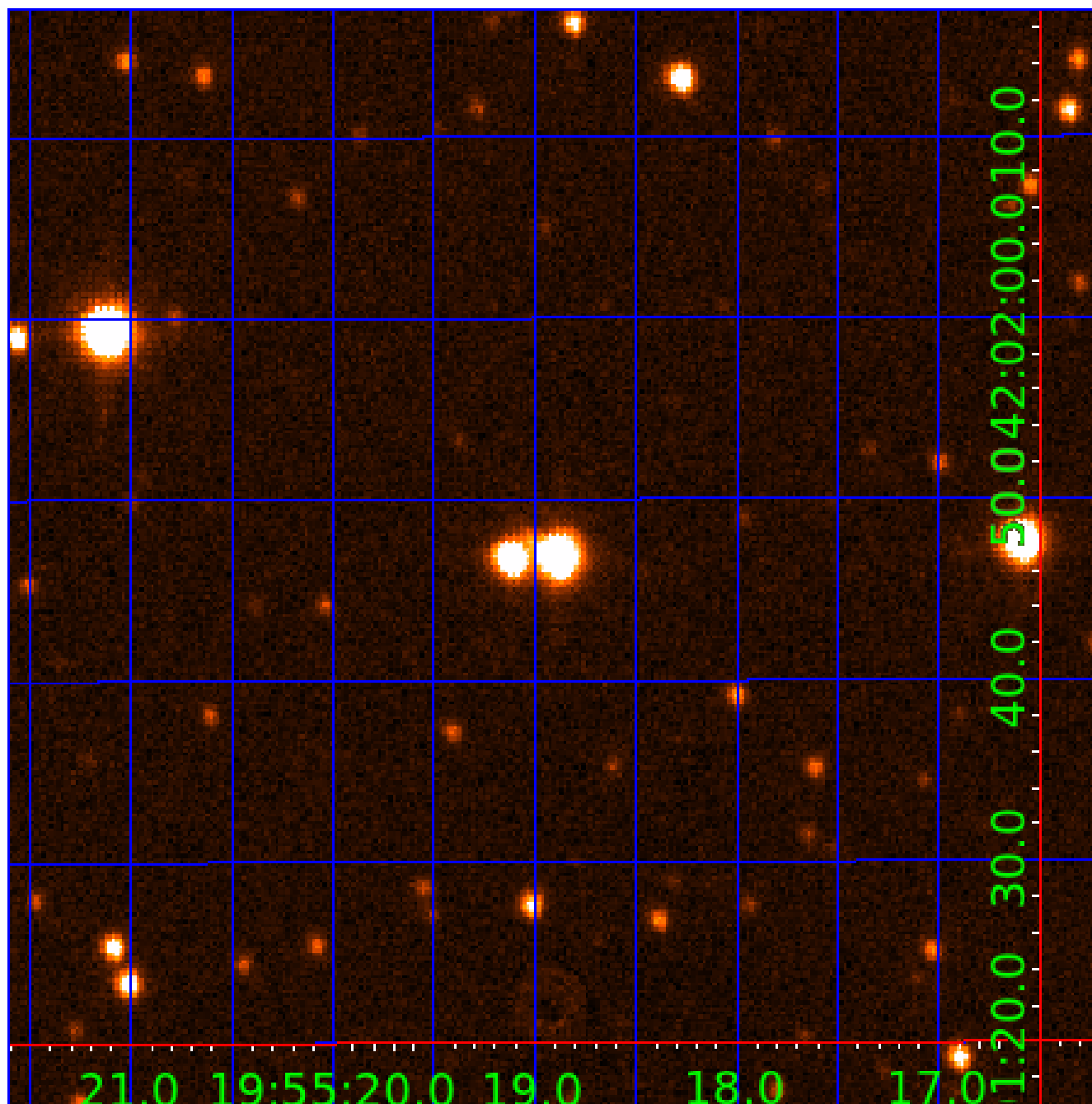


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006635026

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})
006635026-01	OBS	No	0.723688	131.859976	109.1	4.950	17.4	11.8	2.31	7485	2.47	41623.07
006635026-02	OBS	No	140.939510	227.746688	2913.0	2.723	15.6	14.5	2.31	7485	13.93	36.87
006635026-03	OBS	No	38.428035	143.056910	1806.0	4.305	12.5	13.9	2.31	7485	11.32	208.55
006635026-04	OBS	No	60.219450	138.742859	2649.4	1.049	13.6	11.5	2.31	7485	12.25	114.57
006635026-05	OBS	No	26.980444	145.913094	1970.5	1.300	11.3	11.5	2.31	7485	10.74	334.20
006635026-06	OBS	No	36.206055	155.848699	1444.1	3.245	9.8	9.4	2.31	7485	13.34	225.78
006635026-07	OBS	No	135.464597	151.815020	1424.1	8.019	9.2	9.7	2.31	7485	9.36	38.87
006635026-08	OBS	No	80.986429	157.236489	1366.0	11.106	9.4	8.6	2.31	7485	8.86	77.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006635026-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_KIC_POS
006635026-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_KIC_POS
006635026-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_KIC_POS
006635026-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS
006635026-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

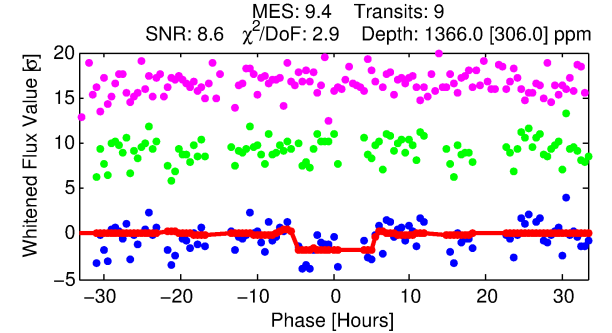
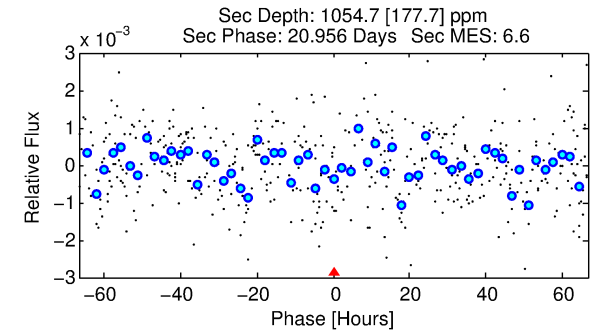
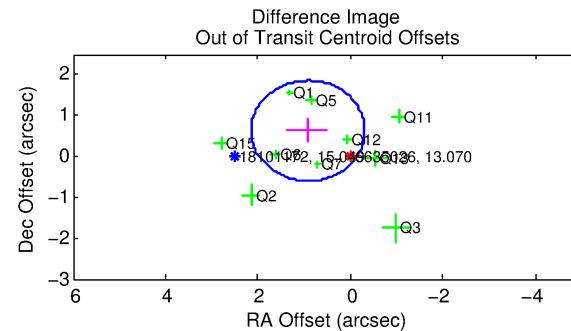
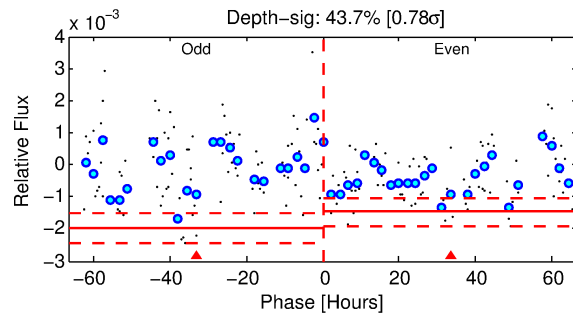
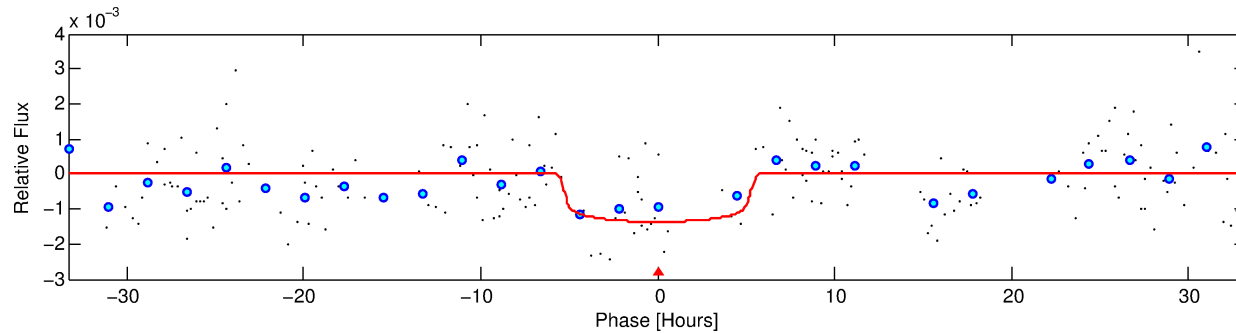
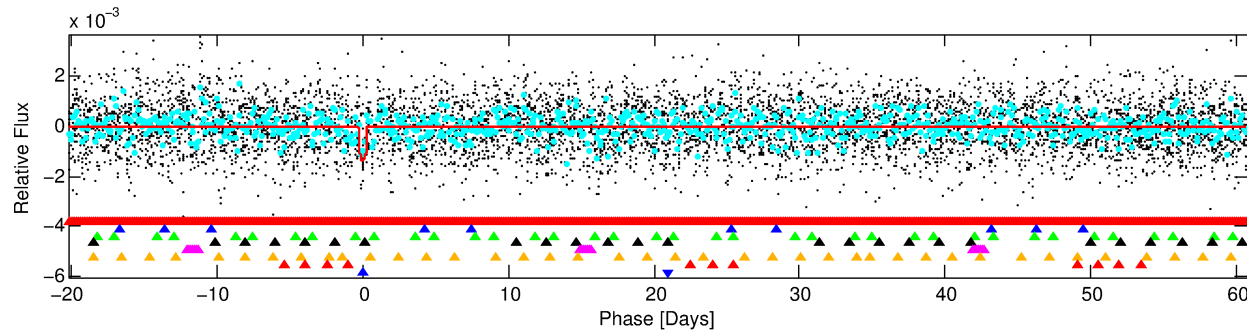
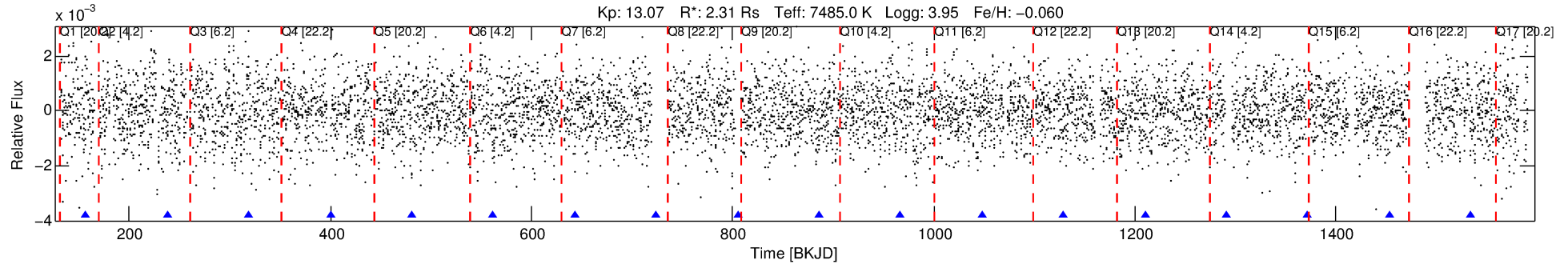
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006635026-08

No Significant Match Found

DV One-Page Summary

KIC: 6635026 Candidate: 8 of 8 Period: 80.986 d



DV Fit Results:

Period = 80.98643 [0.01778] d
Epoch = 157.2365 [0.2002] BKJD
Rp/R* = 0.0351 [0.0299]
a/R* = 50.99 [270.64]
b = 0.48 [8.33]
Seff = 77.18 [37.84]
Teq = 756 [93] K
Rp = 8.86 [8.09] Re
a = 0.4409 [0.1308] AU
Ag = 1438.56 [2548.46] [0.56 σ]
Teffp = 7197 [3098] K [2.08 σ]

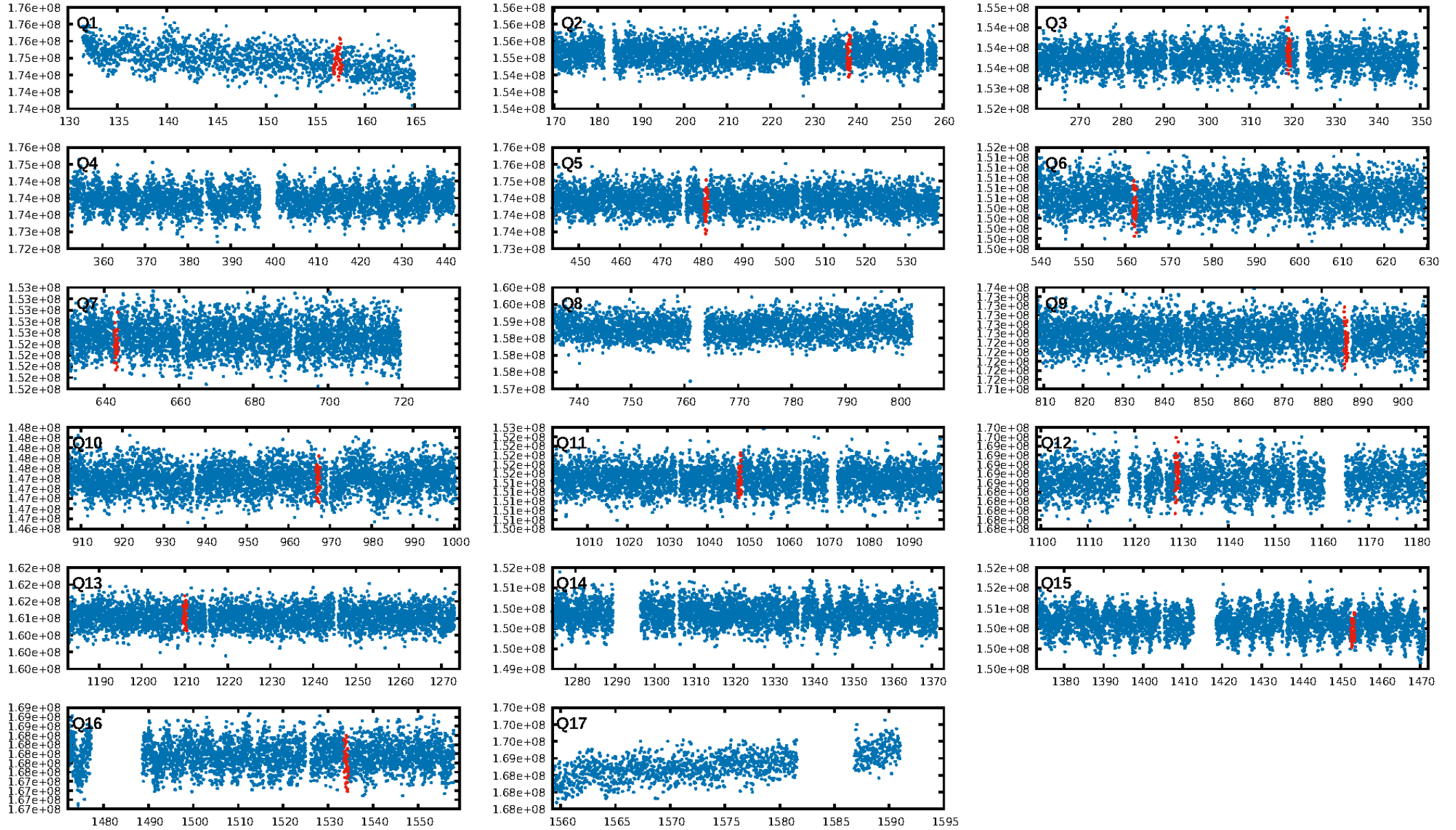
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [44.68 σ]
LongPeriod-sig: 100.0% [95.45 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.75e-08
RollingBand-fgt: 1.00 [9/9]
GhostDiagnostic-chr: 0.5345
Centroid-sig: 81.0%
Centroid-so: 0.500 arcsec [2.45 σ]
OotOffset-rm: 1.120 arcsec [2.73 σ]
OotOffset-st: 2/4/1/3 [10]
KicOffset-rm: 1.563 arcsec [4.12 σ]
KicOffset-st: 2/4/1/3 [10]
DiffImageQuality-fgm: 0.50 [5/10]
DiffImageOverlap-fno: 0.00 [0/10]

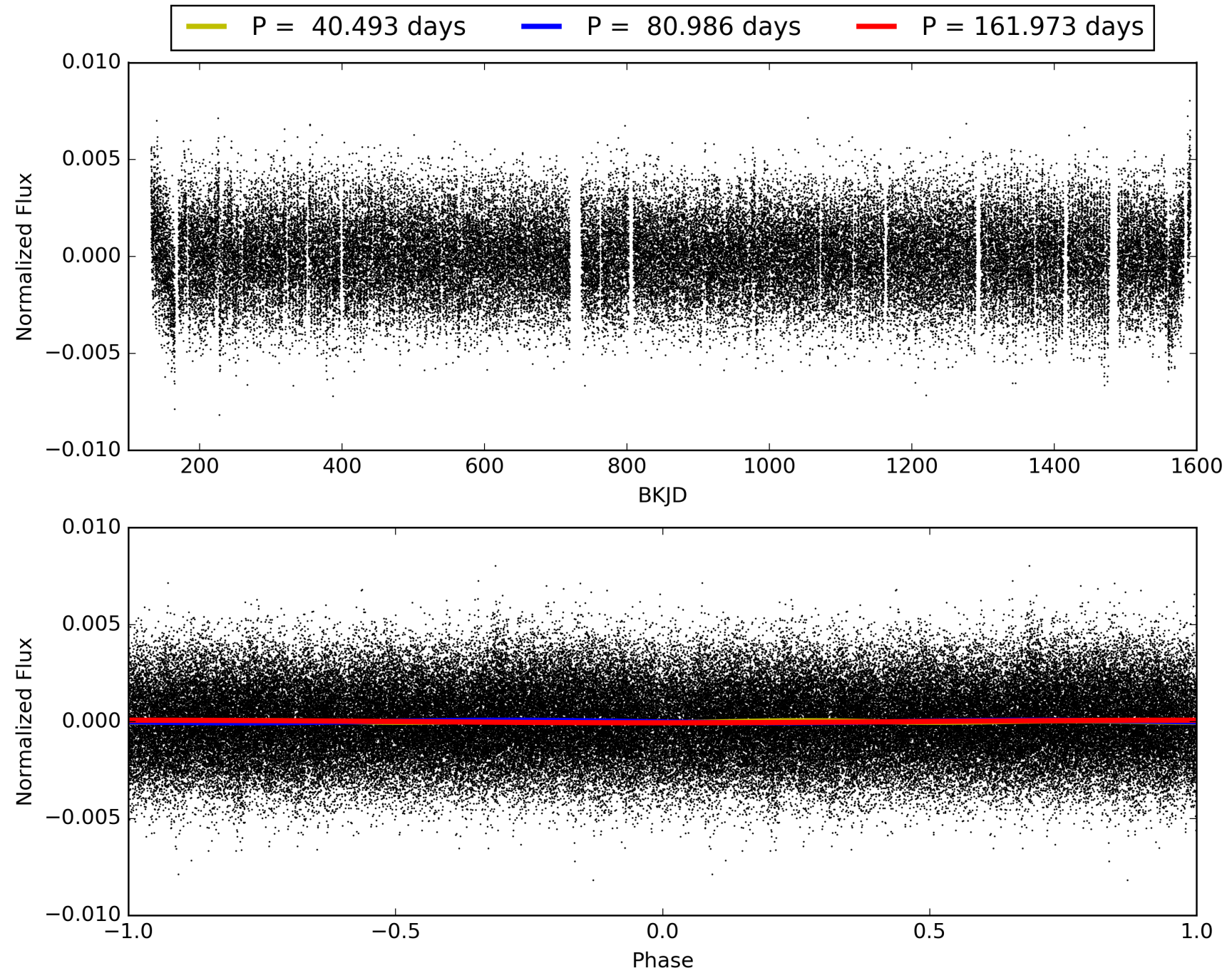
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:20:02 Z

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

TCE 006635026-08, PDC Light Curves

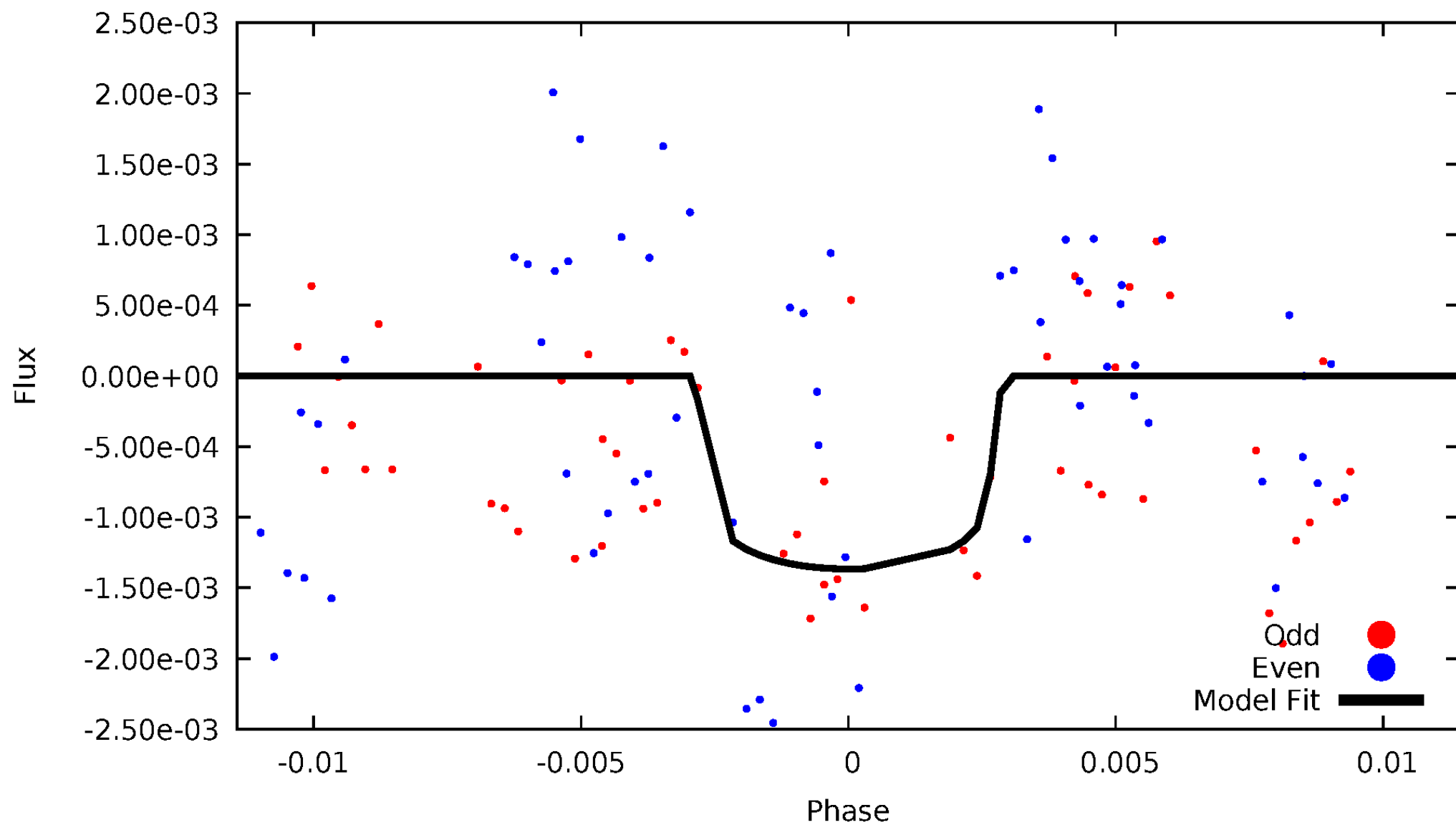


TCE 006635026-08



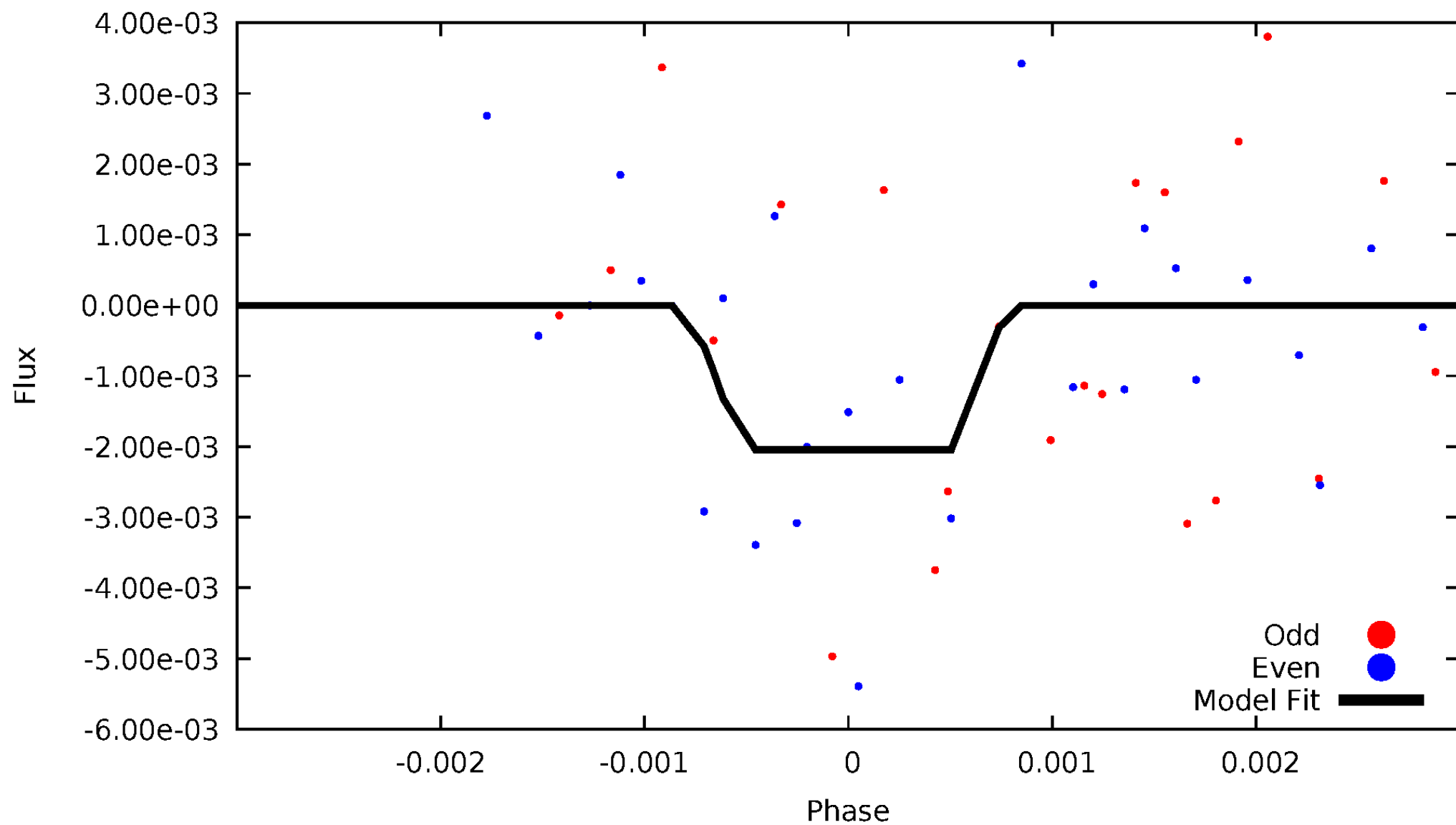
DV Odd/Even

TCE 006635026-08



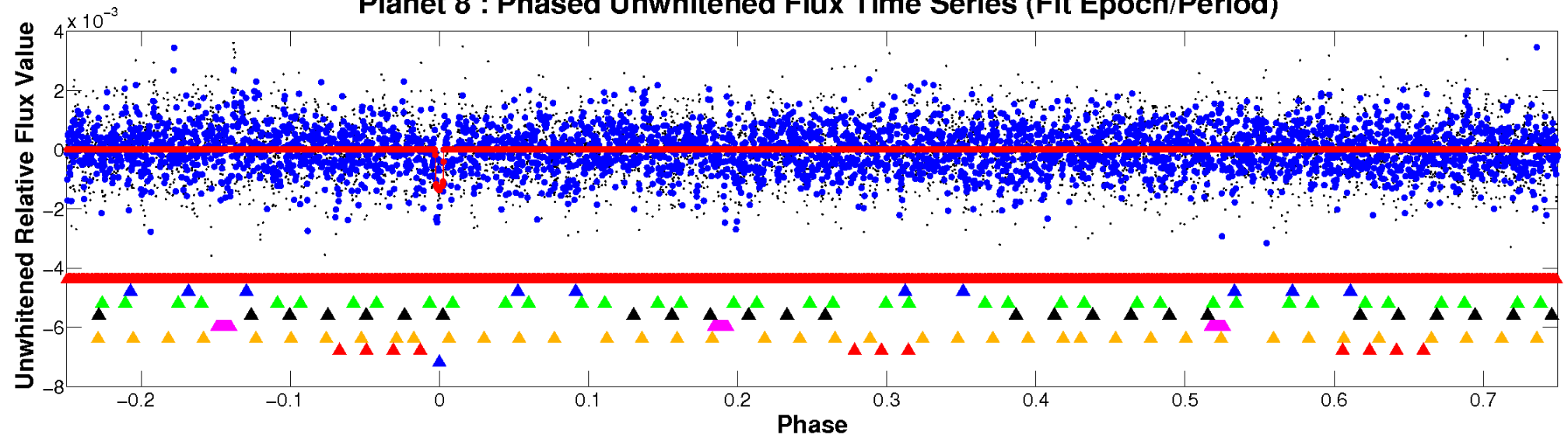
ALT Odd/Even

TCE 006635026-08

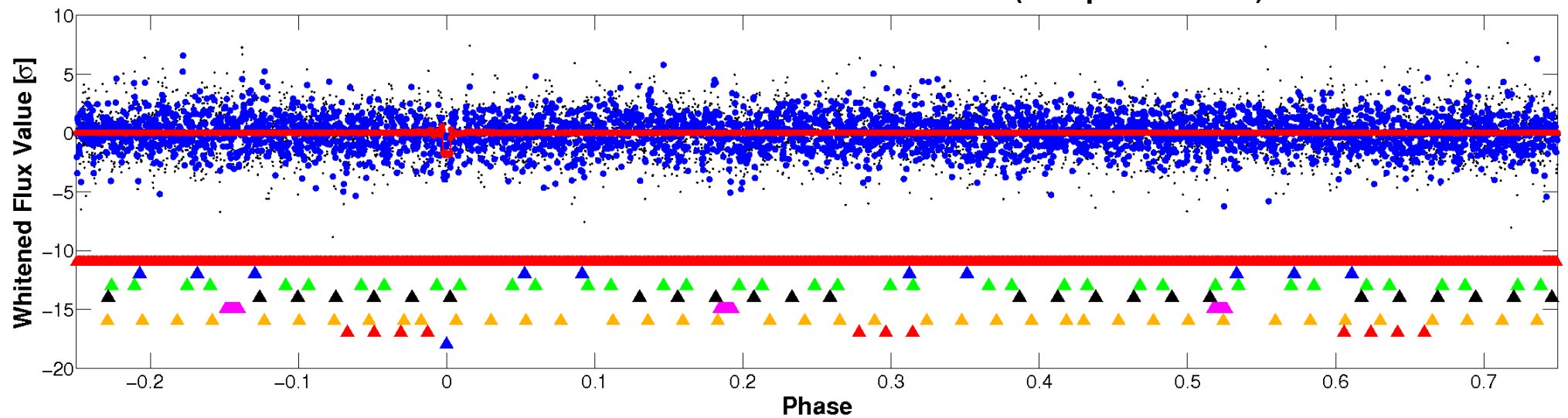


Non-Whitened Vs. Whitened Light Curve

Planet 8 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

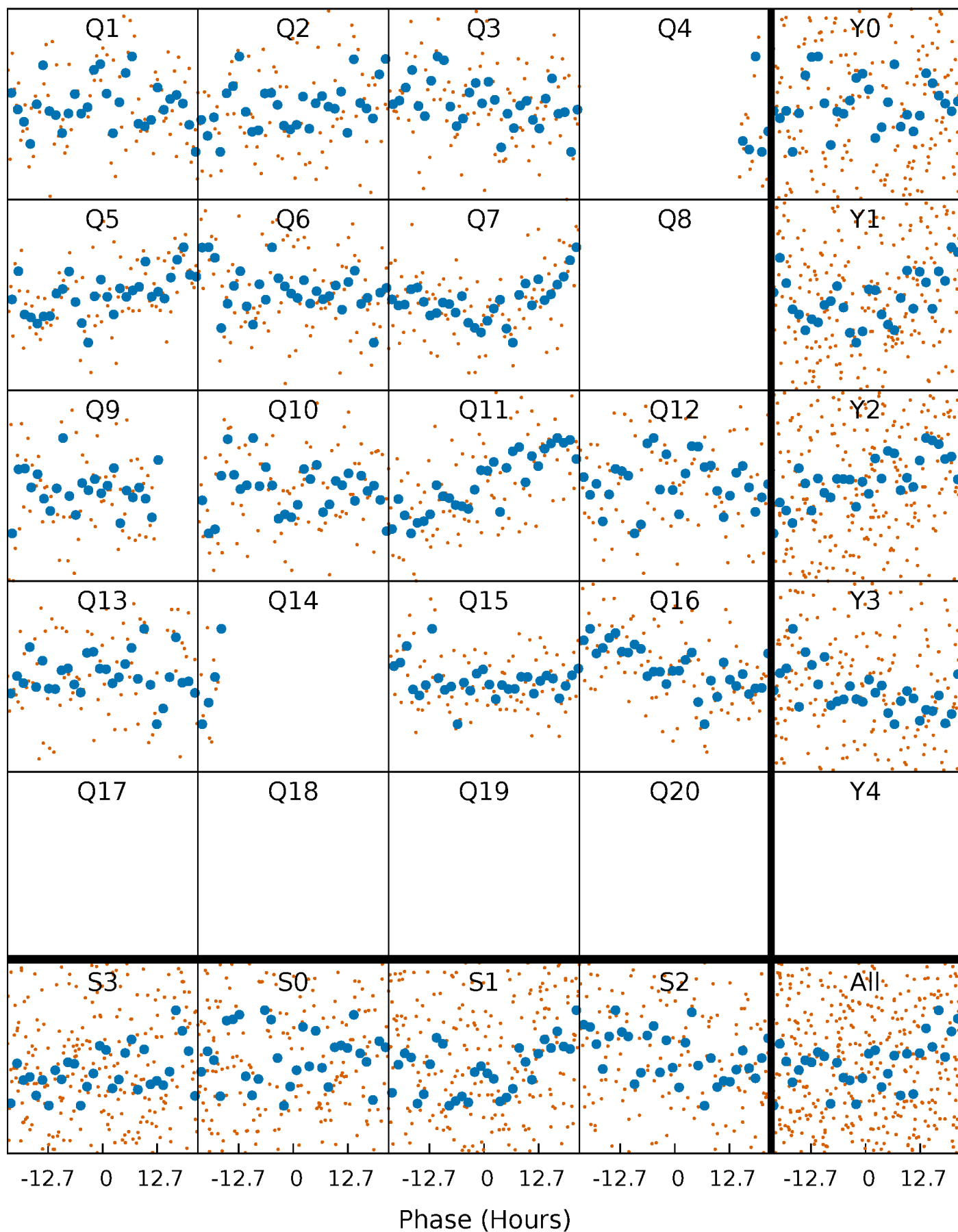


Planet 8 : Phased Whitened Flux Time Series (Fit Epoch/Period)



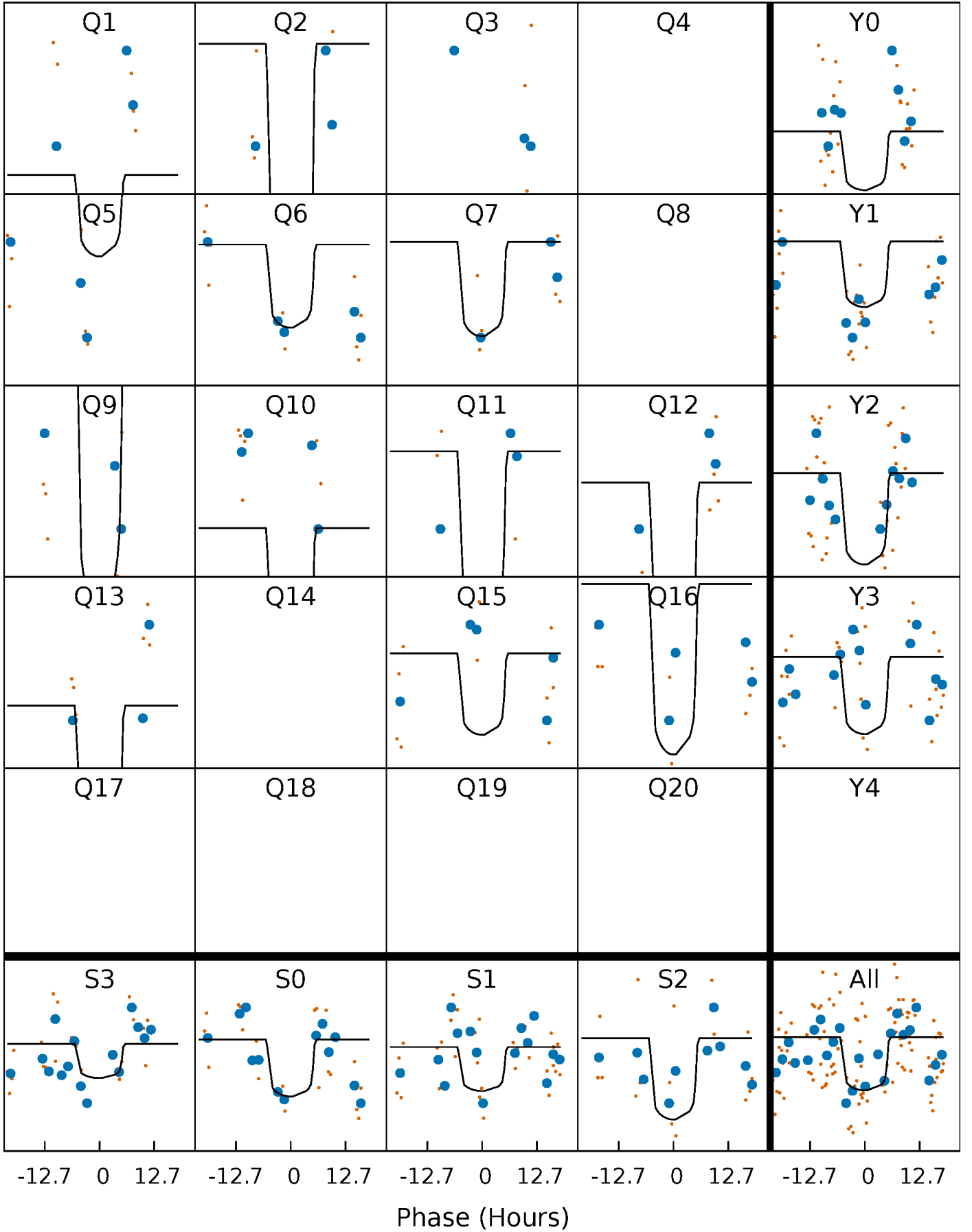
PDC Quarter-Phased Transit Curves

TCE 006635026-08 $P = 80.986429$ Days $T_0 = 157.236489$ (BKJD)



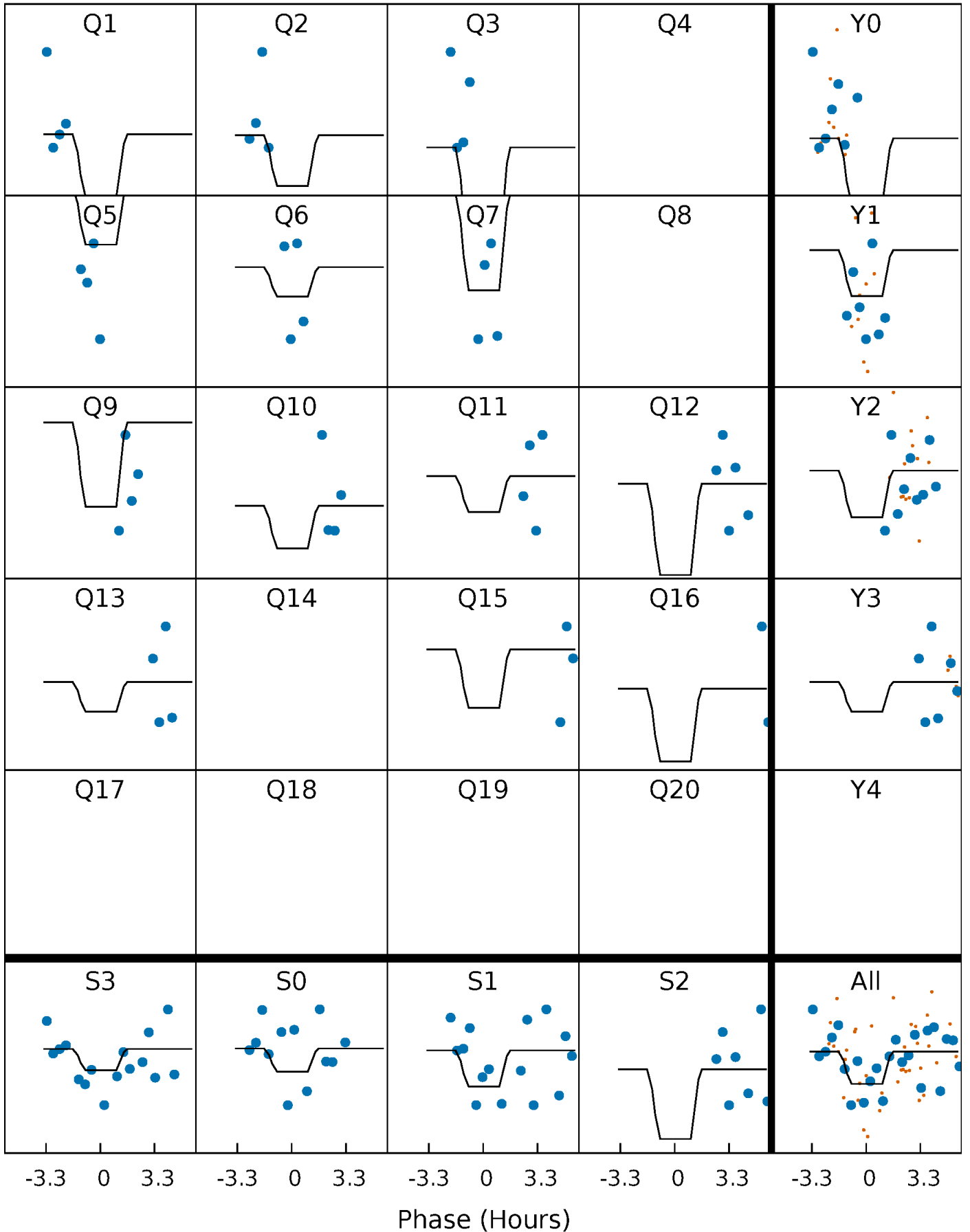
DV Quarter-Phased Transit Curves

TCE 006635026-08 P= 80.986429 Days $T_0=157.236489$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

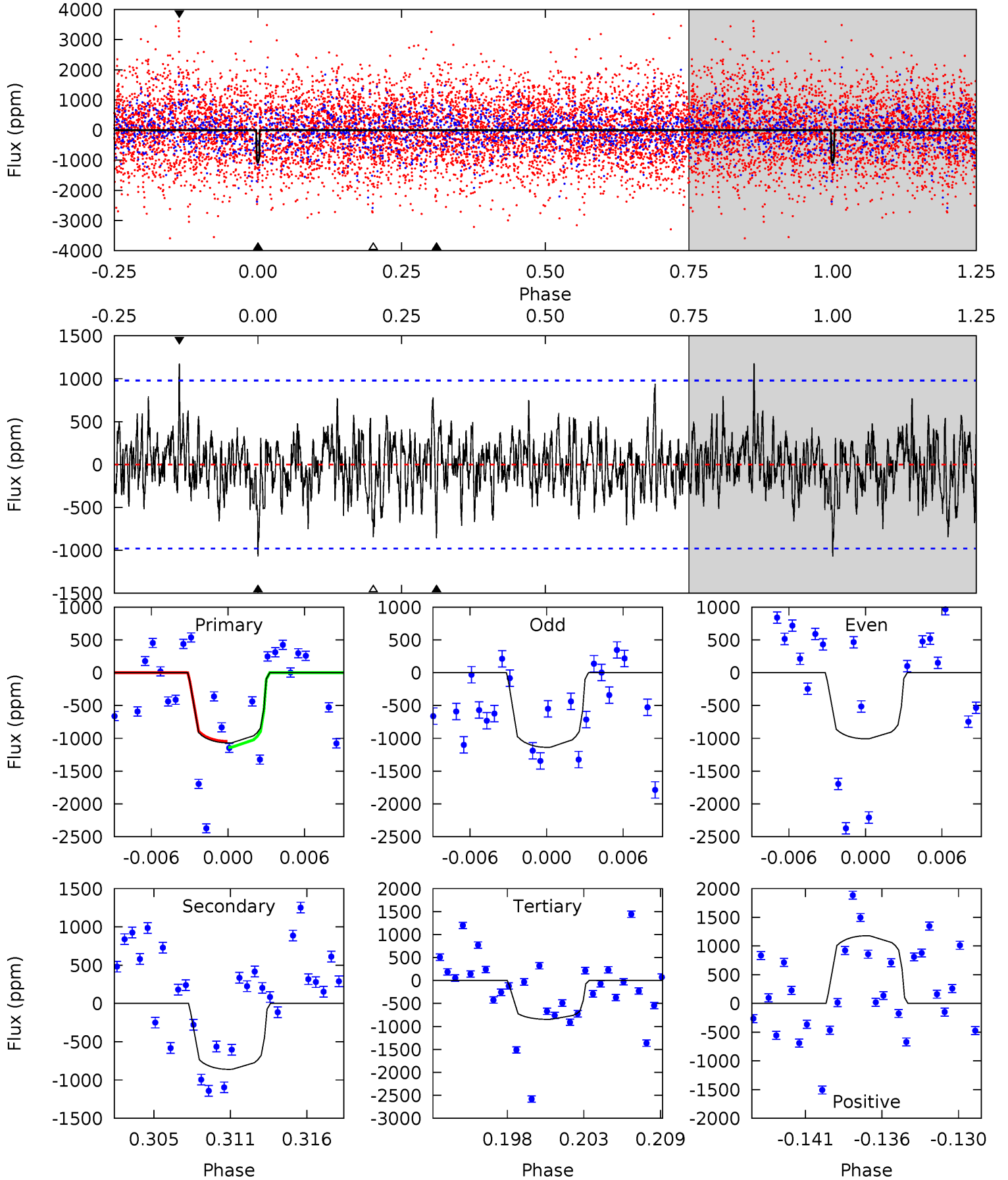
TCE 006635026-08 P= 81.032866 Days $T_0=156.933027$ (BKJD)



DV Model-Shift Uniqueness Test

006635026-08, P = 80.986429 Days, E = 76.250060 Days

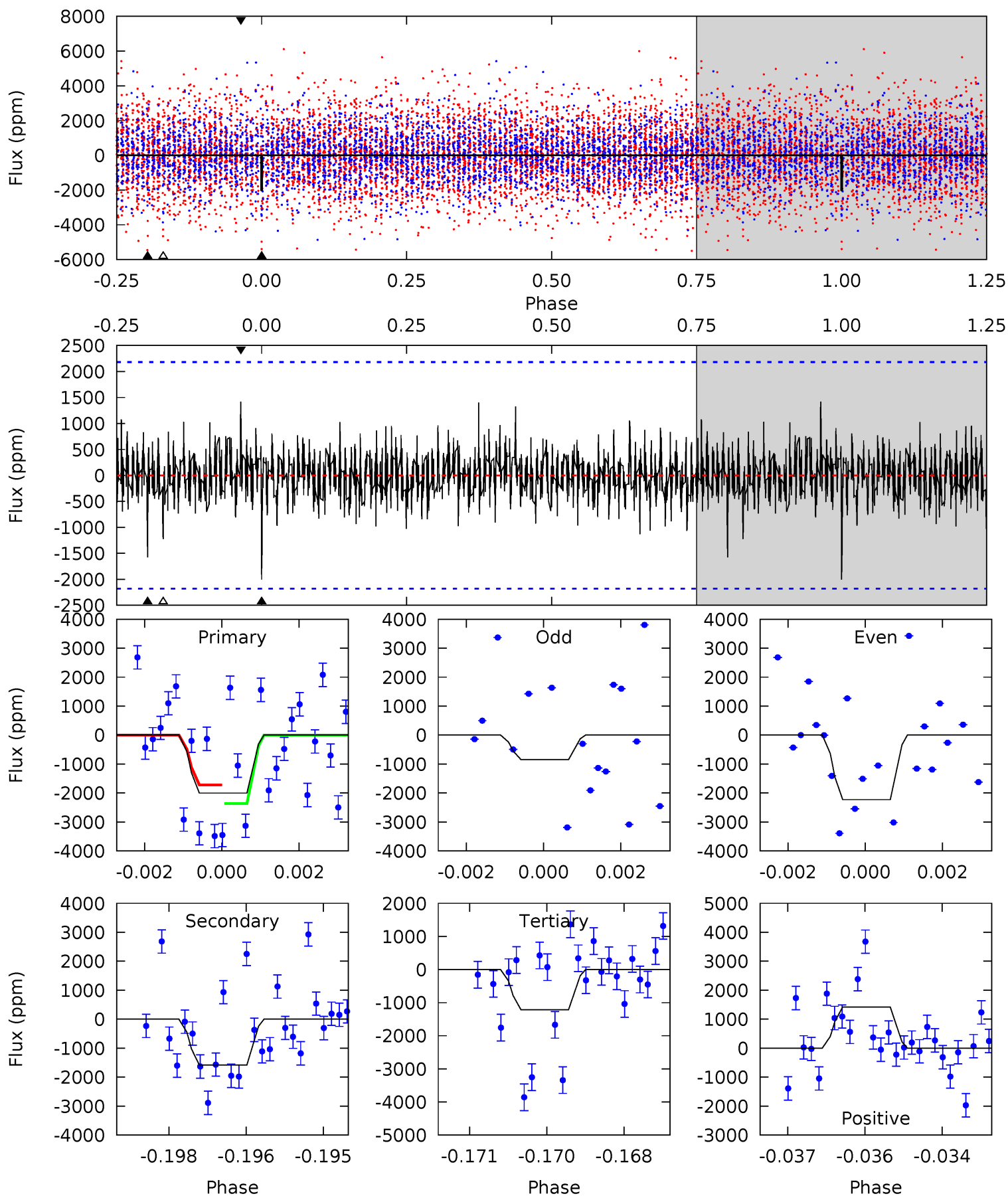
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.61	4.51	4.44	6.18	5.13	2.77	1.41	1.17	-0.57	0.08	-1.67	0.35	0.86	0.52	0.22



Alt Model-Shift Uniqueness Test

006635026-08, P = 81.032866 Days, E = 75.900161 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.94	3.89	2.99	3.49	5.37	3.16	0.85	1.95	1.45	0.90	0.40	1.66	0.83	0.41	0.79



Stellar Parameters For KIC 006635026

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7485^{+209}_{-340}	$3.952^{+0.260}_{-0.140}$	$-0.060^{+0.200}_{-0.400}$	$2.310^{+0.507}_{-0.760}$	$1.743^{+0.195}_{-0.363}$	$0.199^{+0.337}_{-0.084}$
	+3%/-5%	+7%/-4%	+333%/-667%	+22%/-33%	+11%/-21%	+169%/-42%
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 006635026-08 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-861 ± 191	$9.64^{+7.57}_{-5.81}$	1045^{+73}_{-97}	6186^{+4818}_{-1335}	934^{+5382}_{-632}
Alt.	-1579 ± 406	$11.63^{+7.73}_{-6.69}$	1039^{+73}_{-84}	6800^{+4432}_{-1561}	1237^{+5207}_{-811}

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

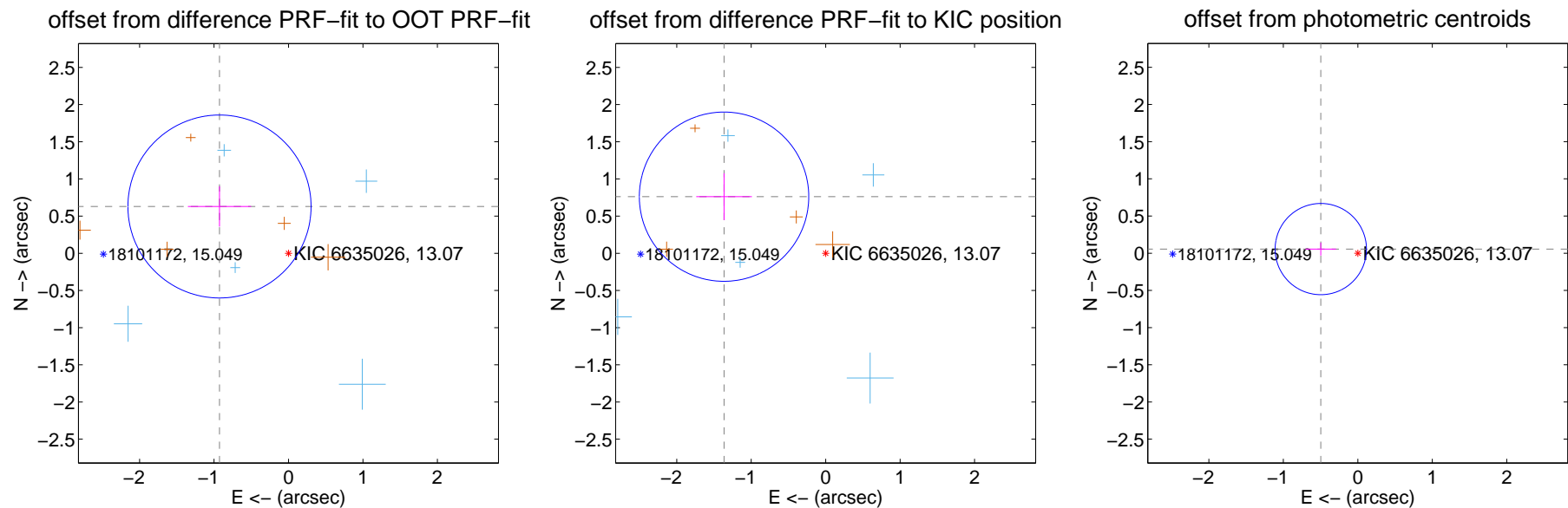
DV Centroid Data

Supplemental centroid analysis for 006635026-08. Kepler magnitude: 13.07. Transit SNR 8.58

There are 5 quarters with good PRF difference image offsets

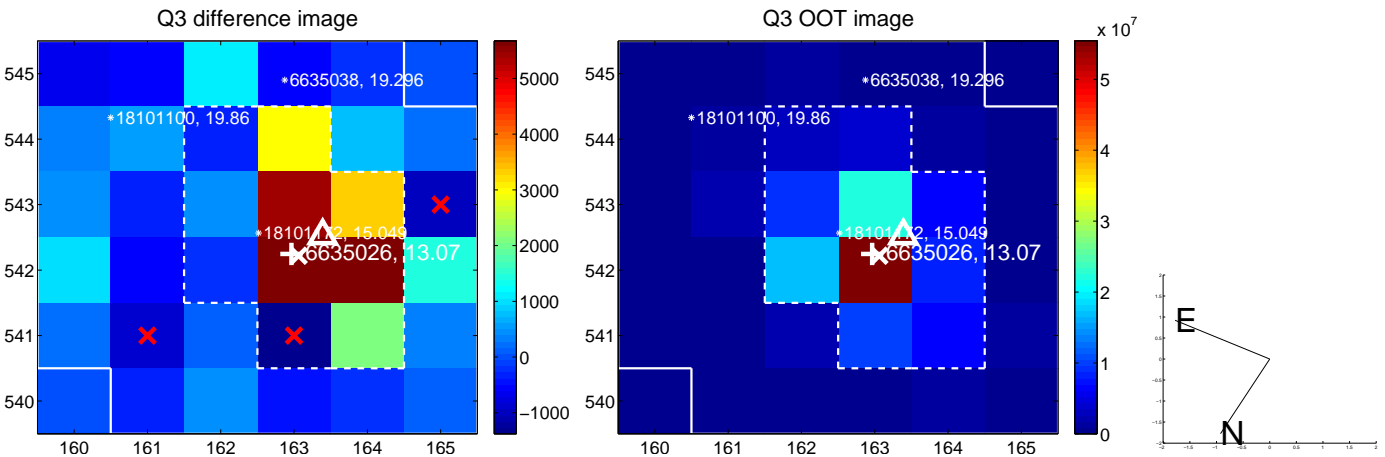
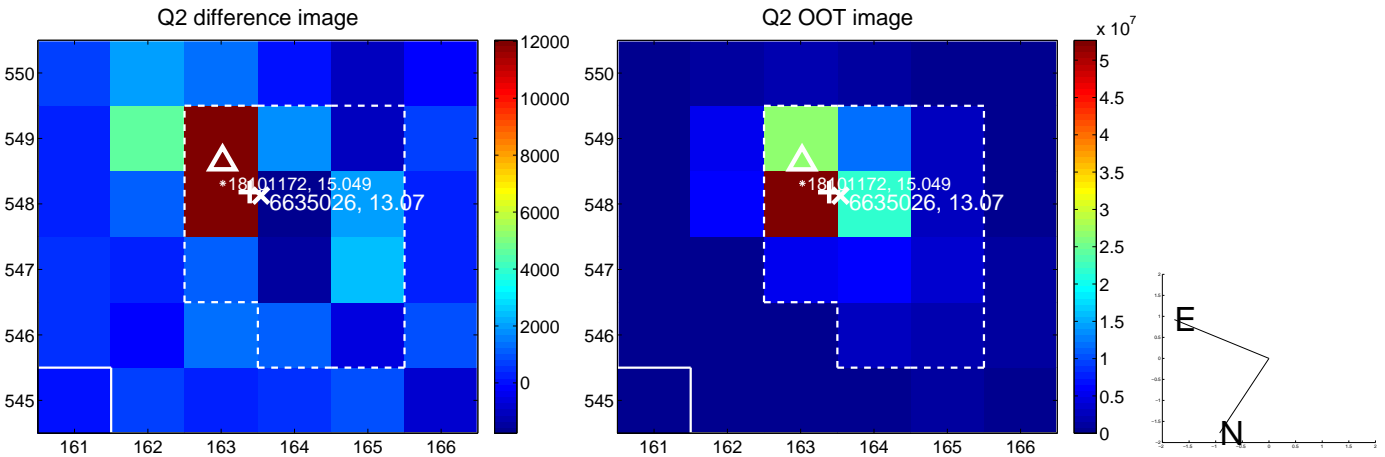
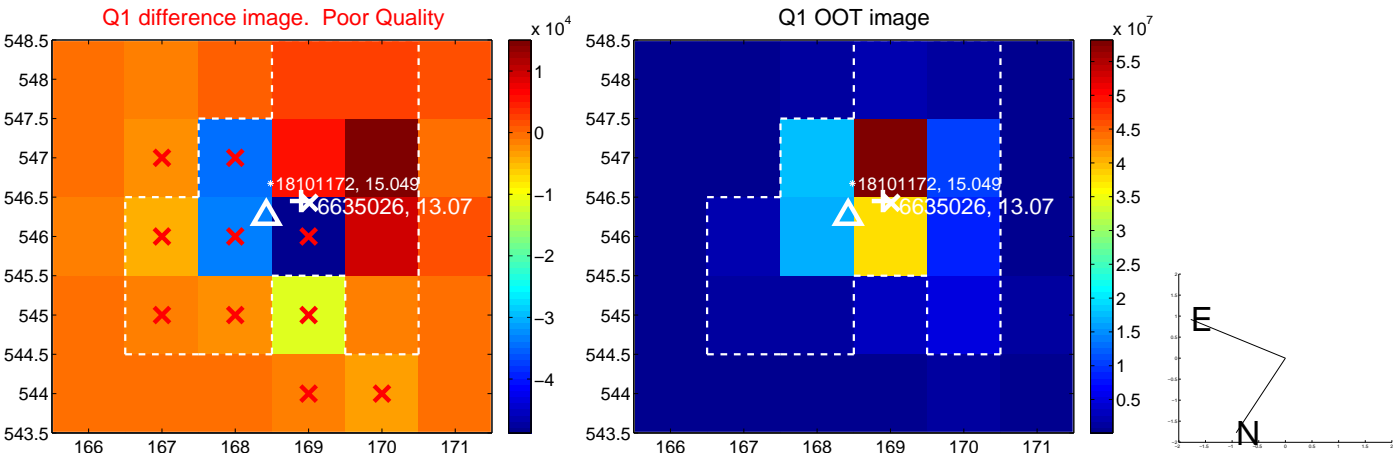
The direct PRF centroid is offset from the target star catalog position by about 0.39 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.120 ± 0.410	2.73	0.927 ± 0.424	0.629 ± 0.271
PRF-fit source offset from KIC position	1.563 ± 0.379	4.12	1.365 ± 0.374	0.761 ± 0.315
photometric centroid source offset	0.50 ± 0.20	2.45	0.50 ± 0.21	0.06 ± 0.09

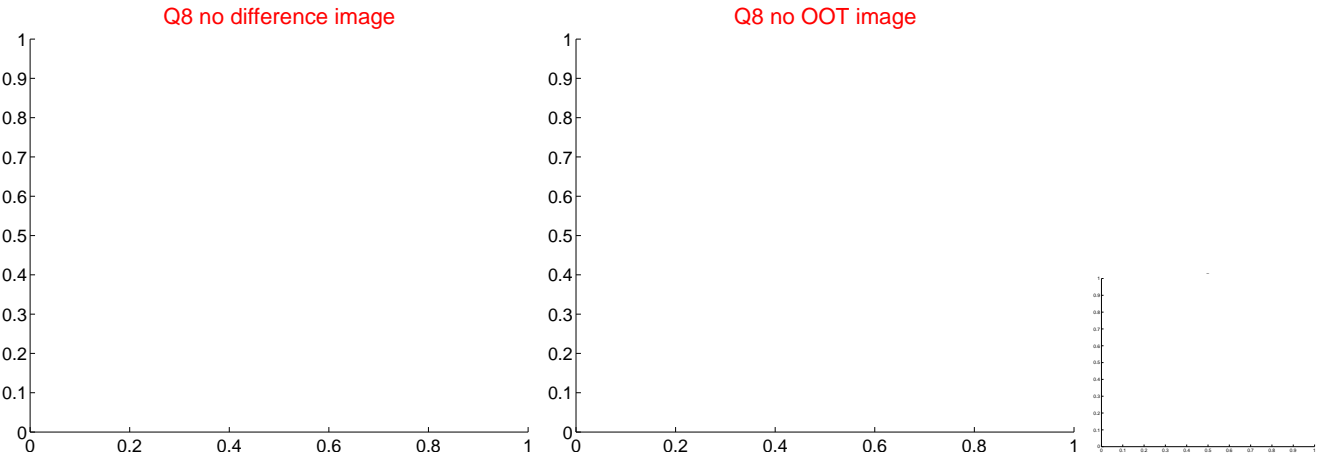
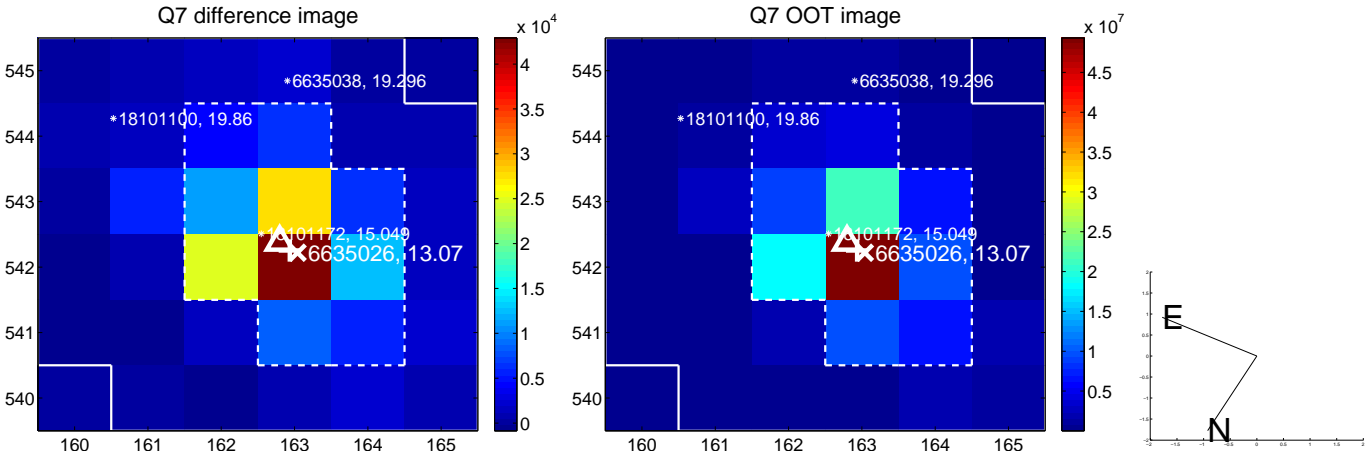
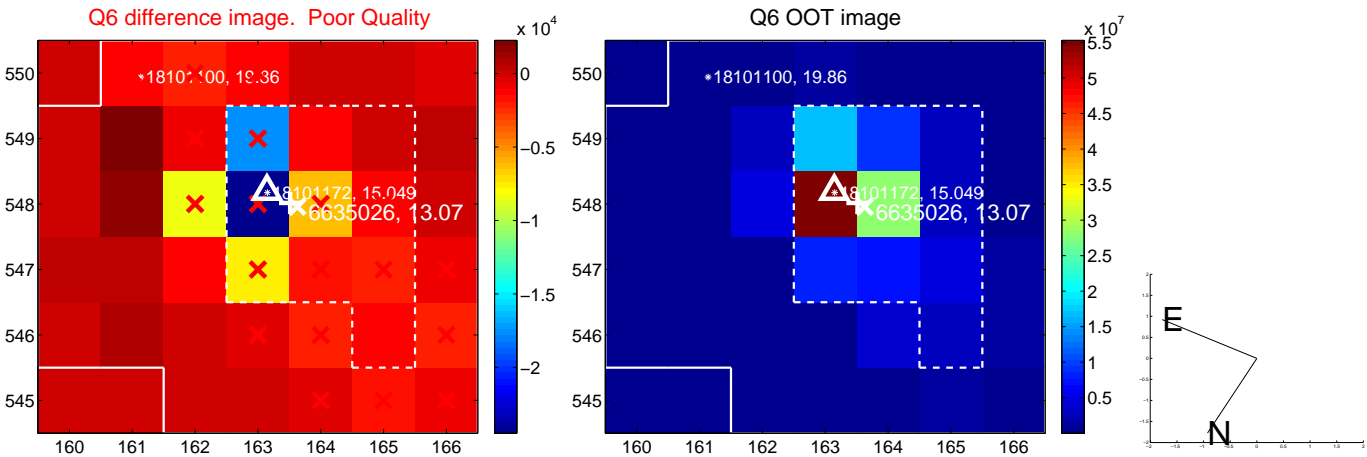
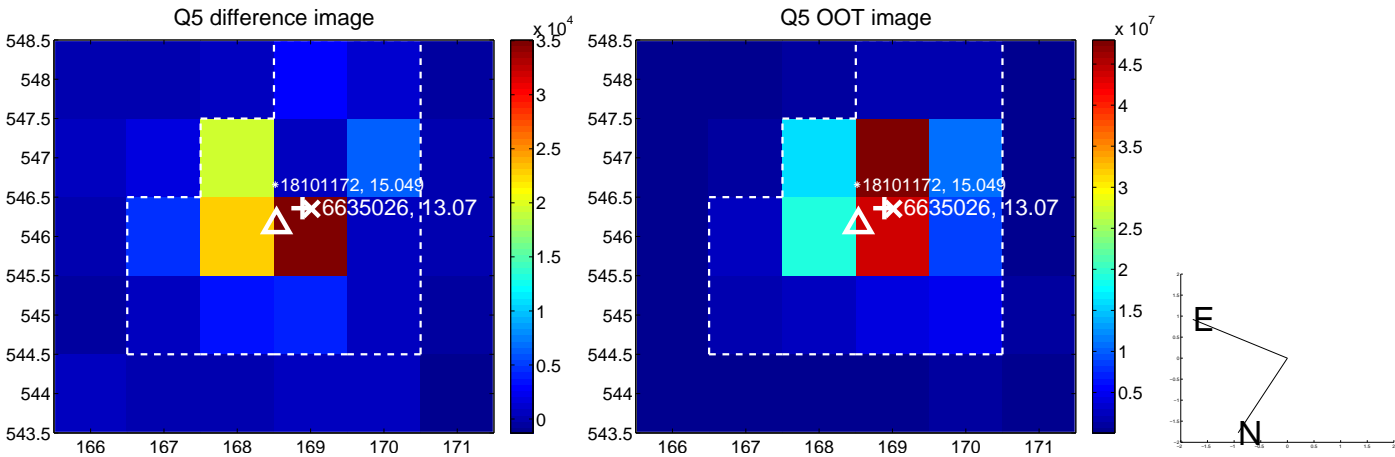


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

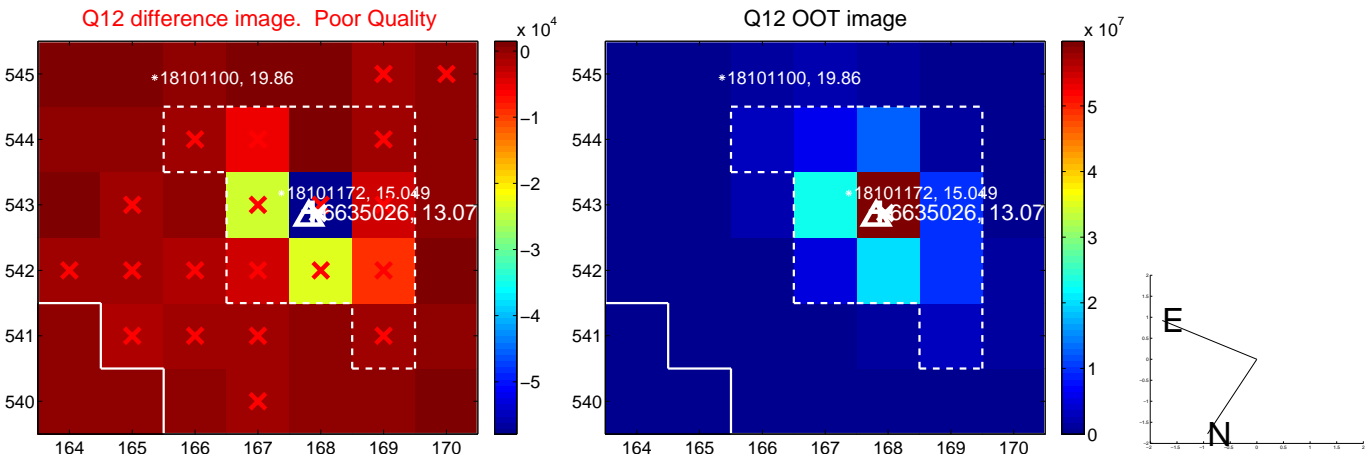
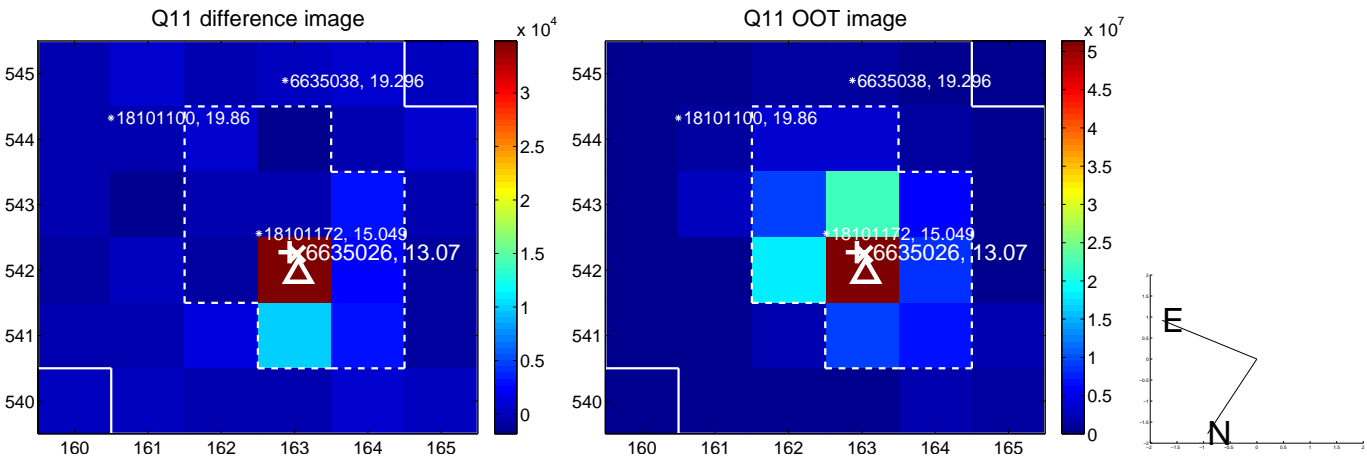
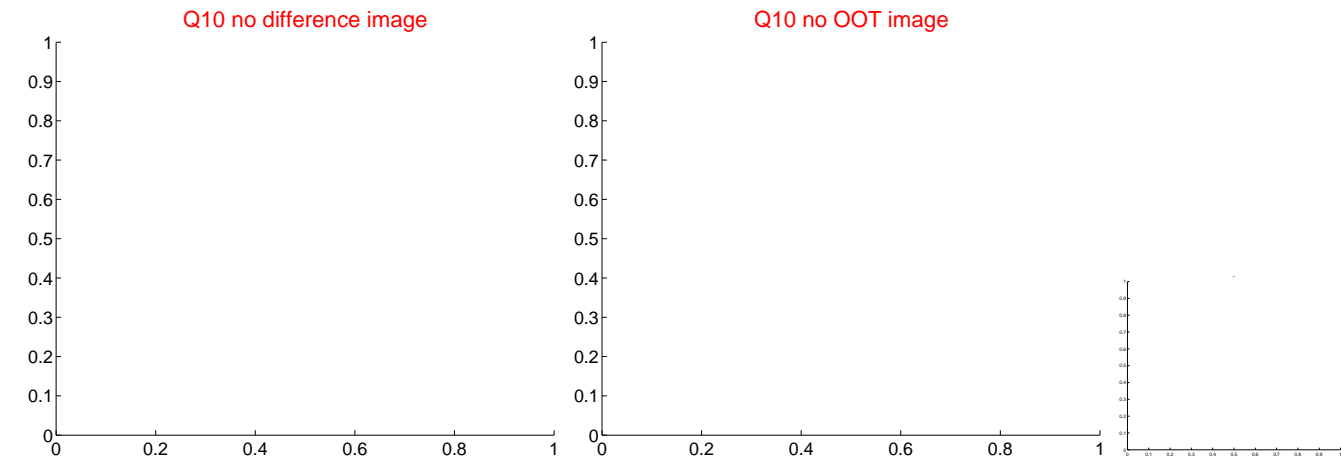
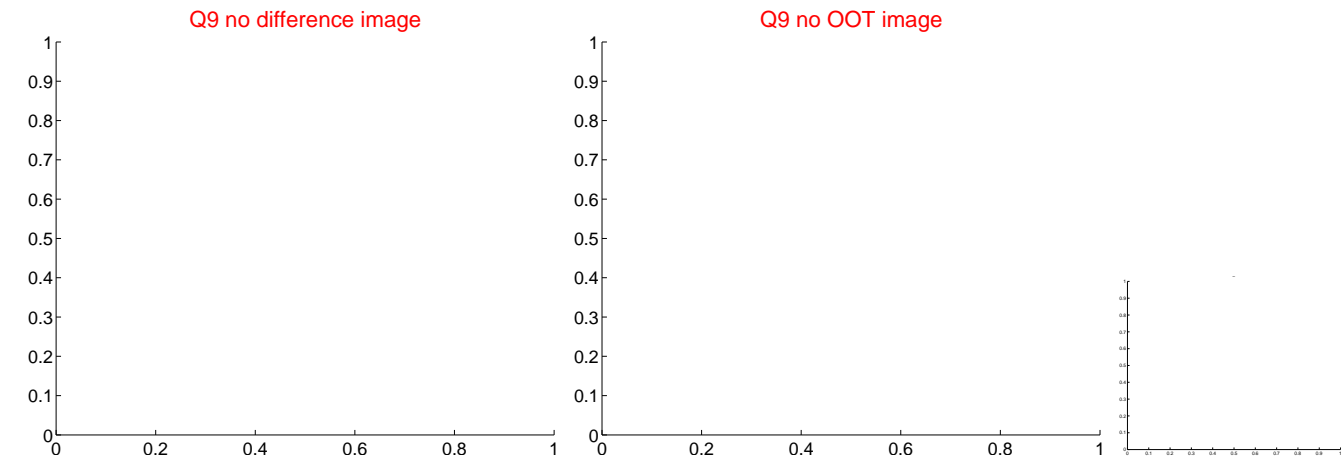
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



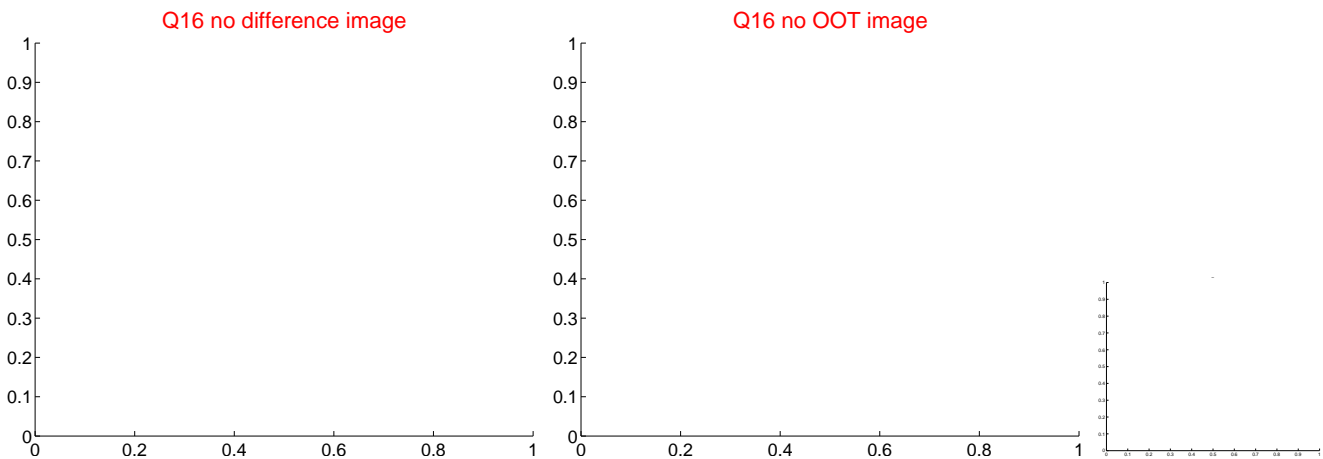
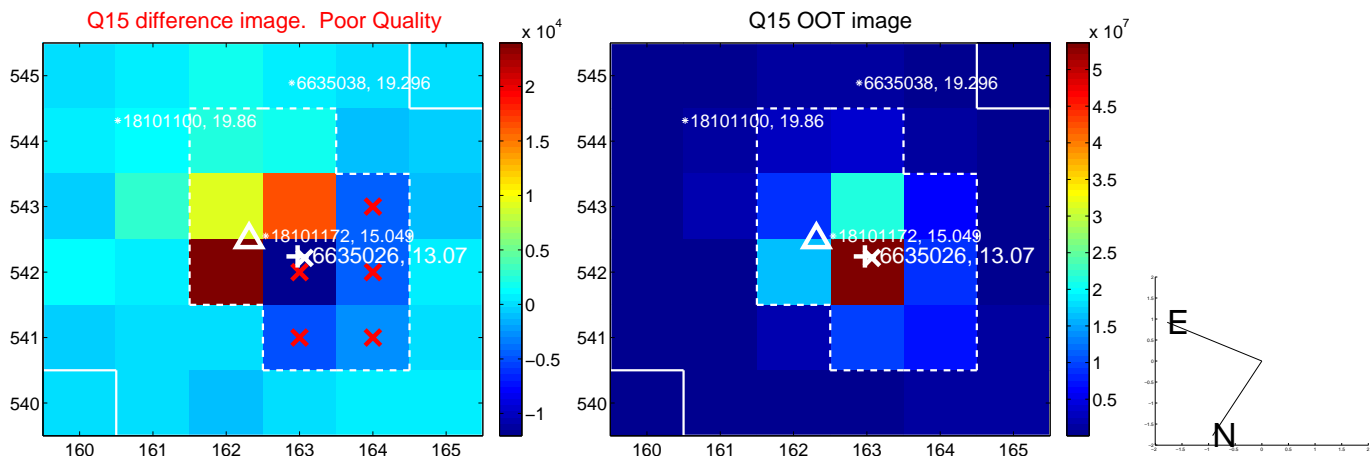
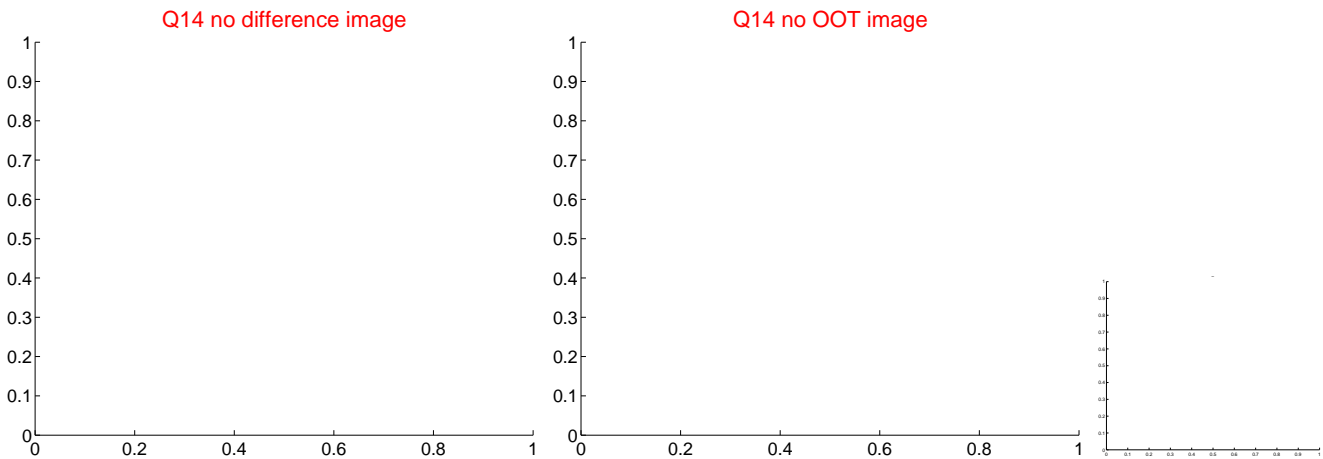
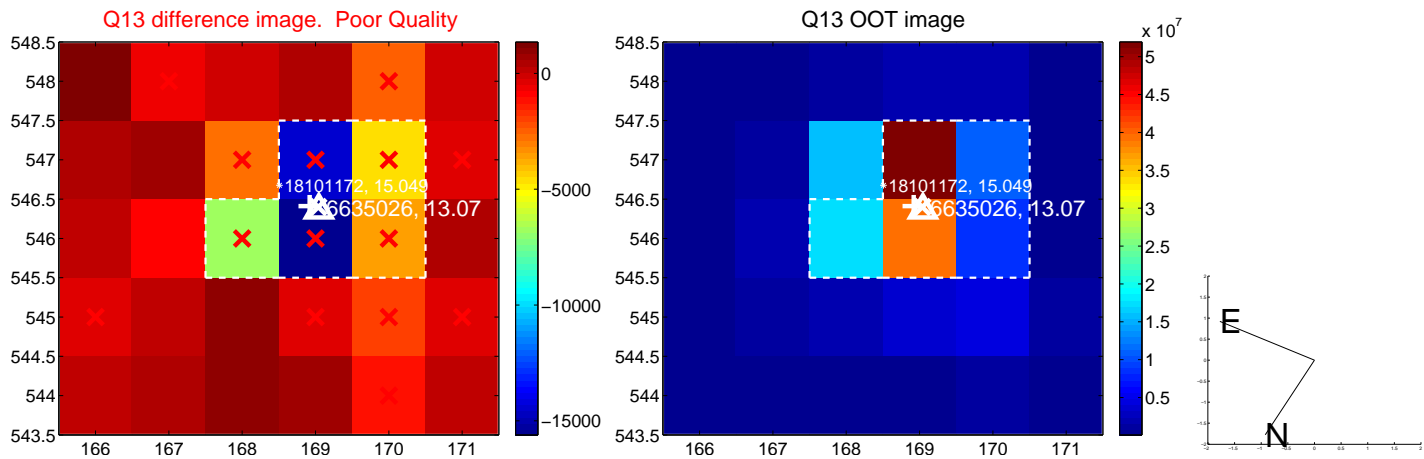
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



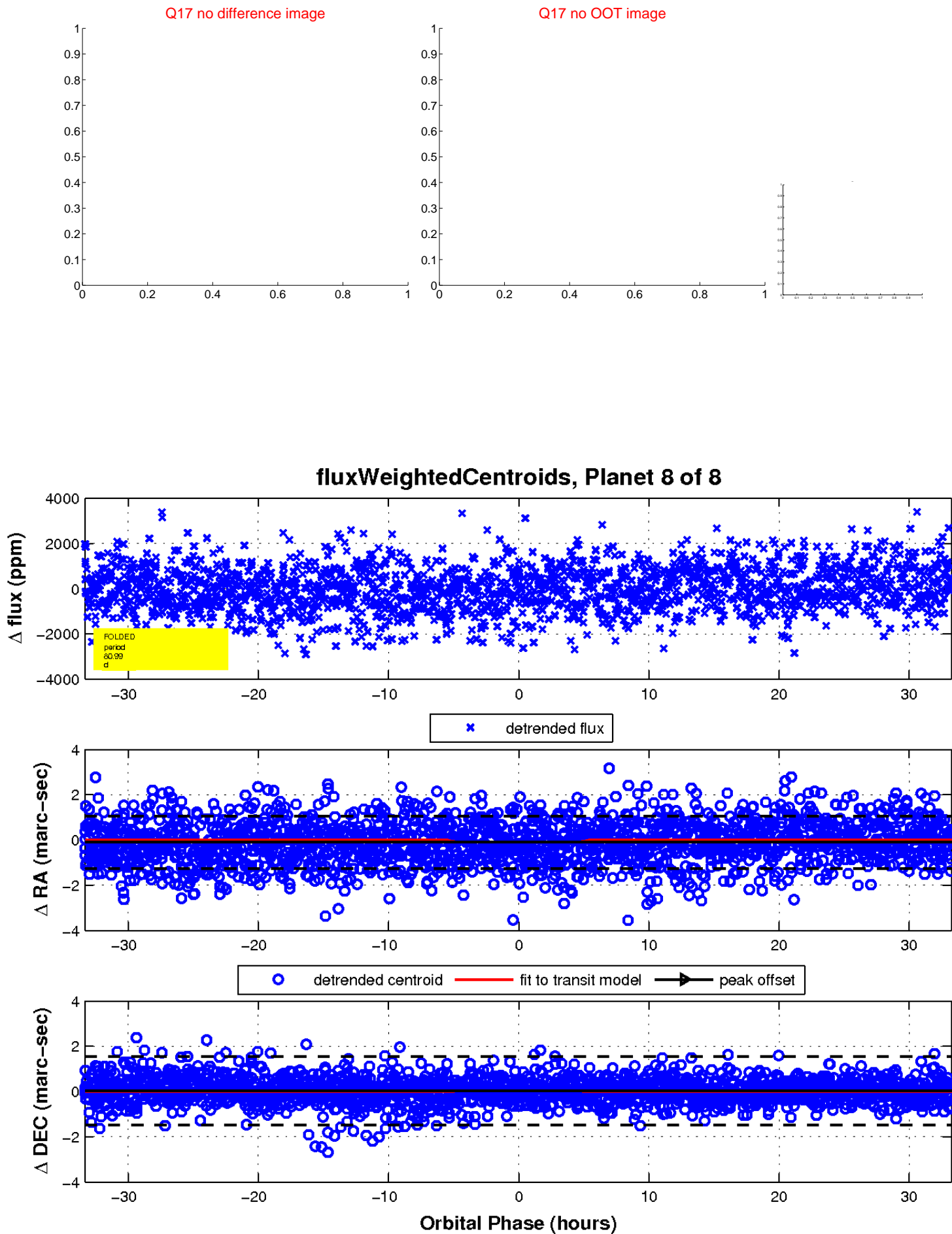
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

