

KIC 006962752

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})
006962752-01	OBS	No	1.525805	132.313951	30.6	9.336	8.2	8.2	3.62	6472	2.02	22191.61
006962752-02	OBS	No	454.840022	149.798932	778.5	19.428	12.7	12.0	3.62	6472	11.73	11.14
006962752-03	OBS	No	50.295264	158.002948	453.5	5.008	11.8	10.4	3.62	6472	8.43	209.97
006962752-04	OBS	No	205.071687	266.848324	534.0	6.186	11.8	7.5	3.62	6472	10.28	32.23
006962752-05	OBS	No	35.607277	136.255074	560.2	7.981	11.3	11.0	3.62	6472	16.43	332.76
006962752-06	OBS	No	99.292648	156.578330	405.3	12.137	8.7	9.3	3.62	6472	8.75	84.78
006962752-07	OBS	No	57.279682	184.351622	307.5	14.332	9.0	7.6	3.62	6472	8.34	176.54

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006962752-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006962752-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006962752-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT

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

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

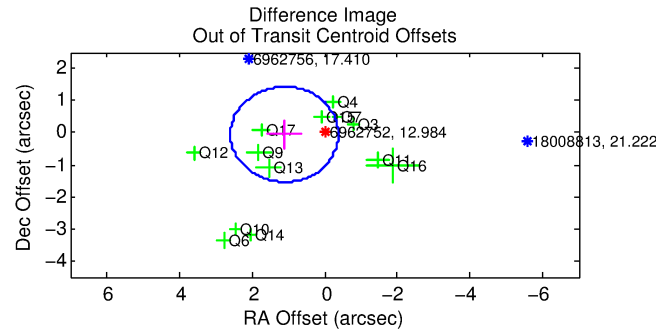
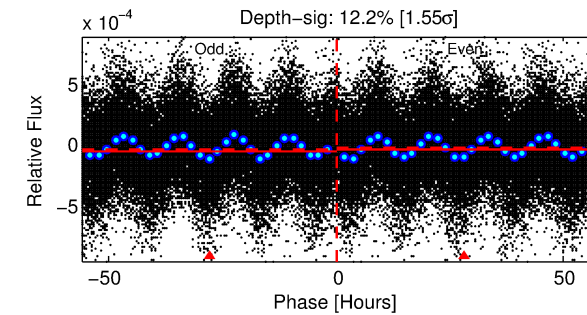
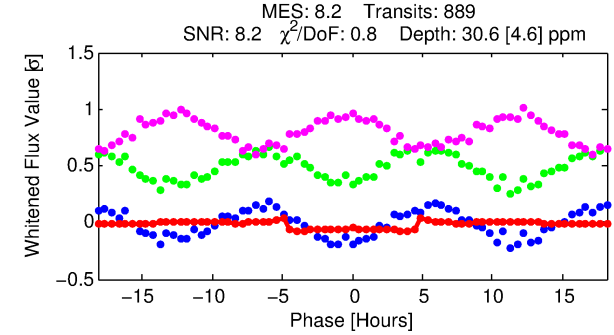
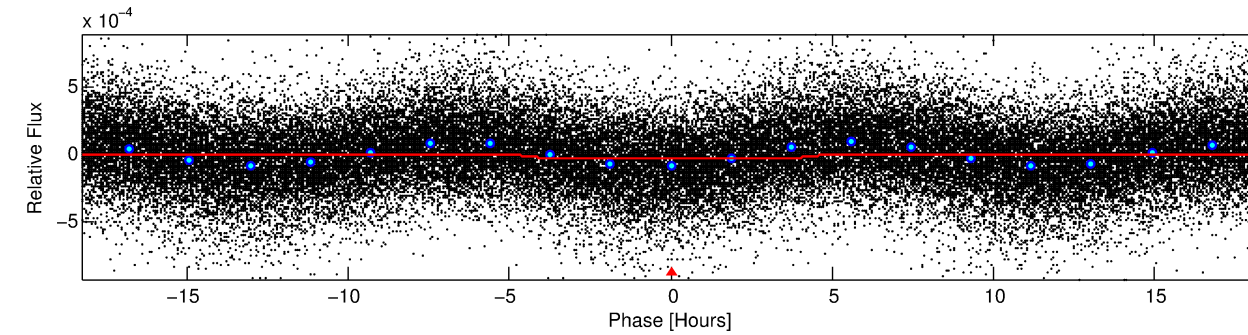
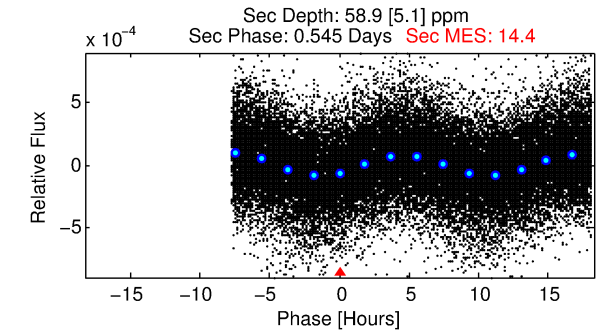
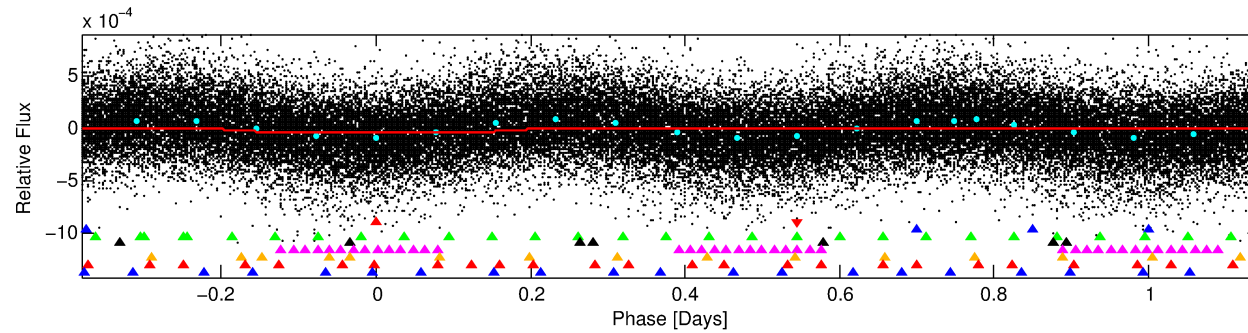
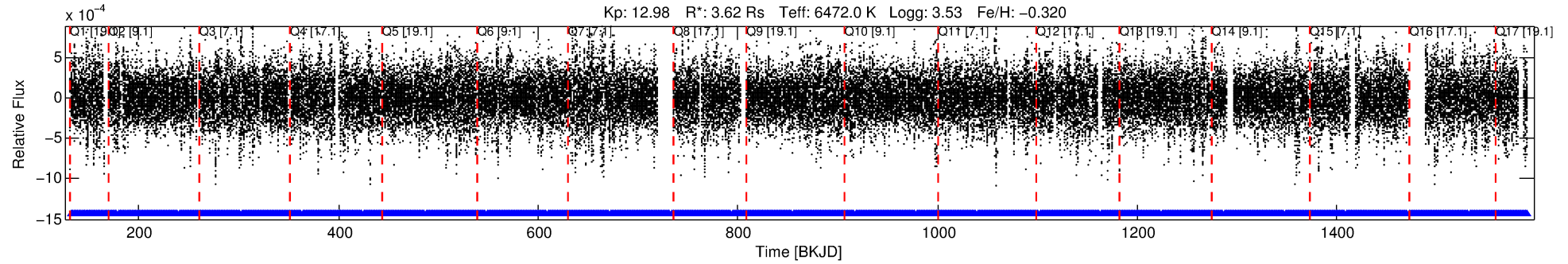
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006962752-01

No Significant Match Found

DV One-Page Summary

KIC: 6962752 Candidate: 1 of 8 Period: 1.526 d



DV Fit Results:

Period = 1.52580 [0.00002] d
Epoch = 132.3140 [0.0039] BKJD
Rp/R* = 0.0051 [0.0034]
a/R* = 1.38 [2.36]
b = 0.24 [14.15]
Seff = 22191.61 [13139.18]
Teq = 3112 [461] K
Rp = 2.02 [1.57] Re
a = 0.0305 [0.0113] AU
Ag = 7.34 [10.70] [0.59σ]
Teffp = 7920 [2655] K [1.78σ]

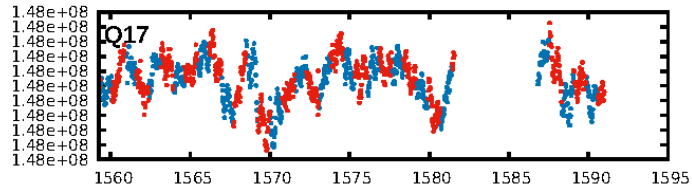
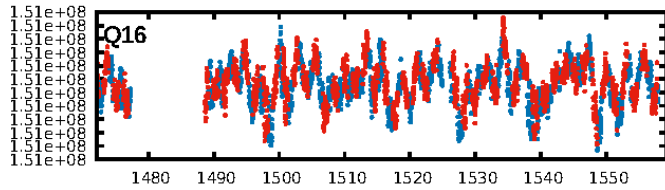
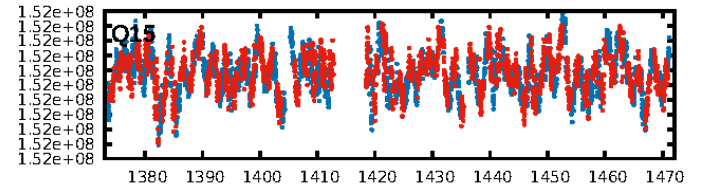
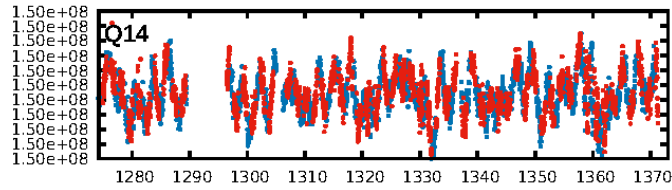
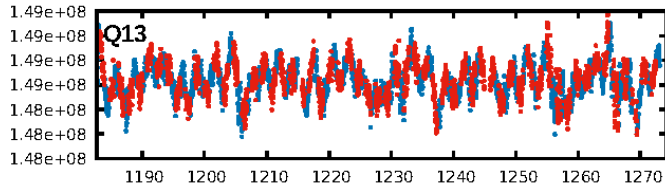
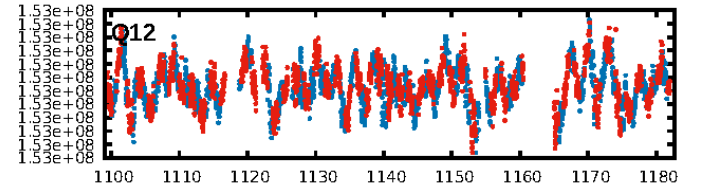
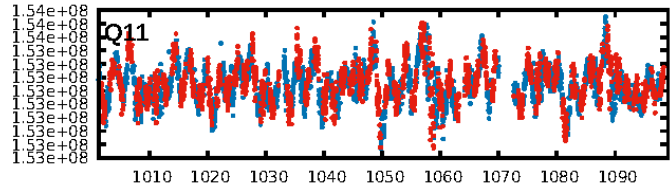
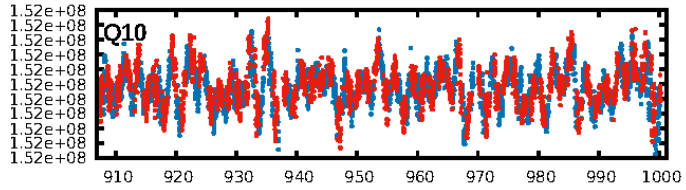
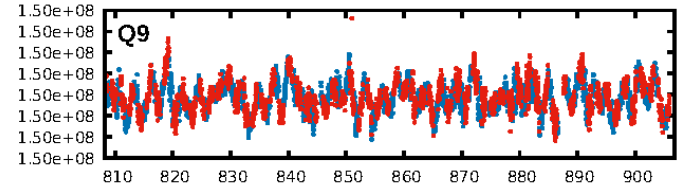
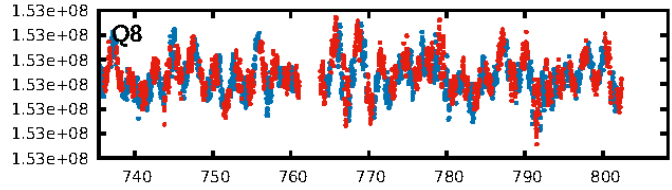
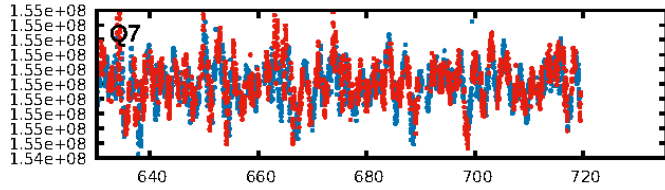
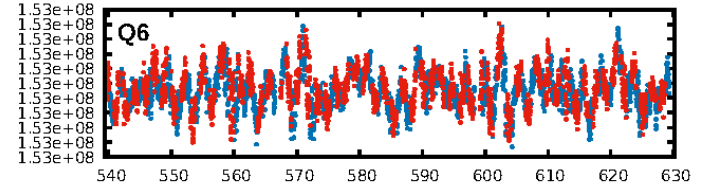
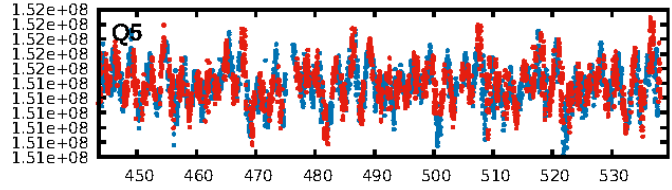
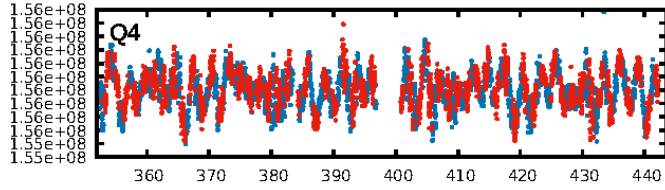
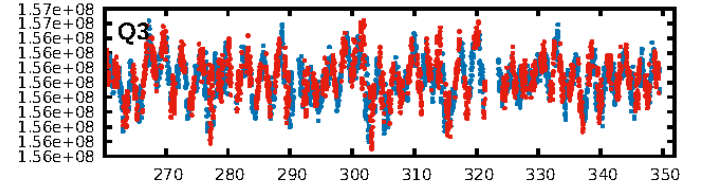
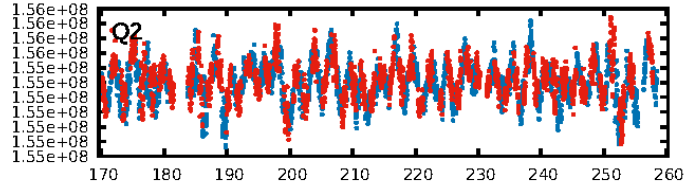
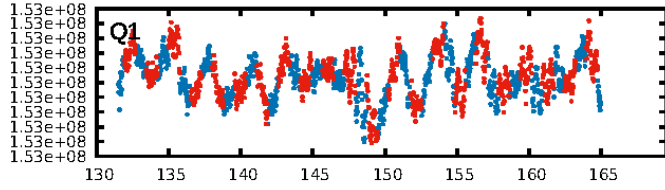
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [66.59σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [850/850]
GhostDiagnostic-chr: 1.203
Centroid-sig: 49.0%
Centroid-so: 0.269 arcsec [0.73σ]
OotOffset-rm: 1.108 arcsec [2.24σ]
OotOffset-st: 3/4/3/3 [13]
KicOffset-rm: 1.039 arcsec [2.13σ]
KicOffset-st: 3/4/3/3 [13]
DiffImageQuality-fgm: 0.62 [8/13]
DiffImageOverlap-fno: 1.00 [17/17]

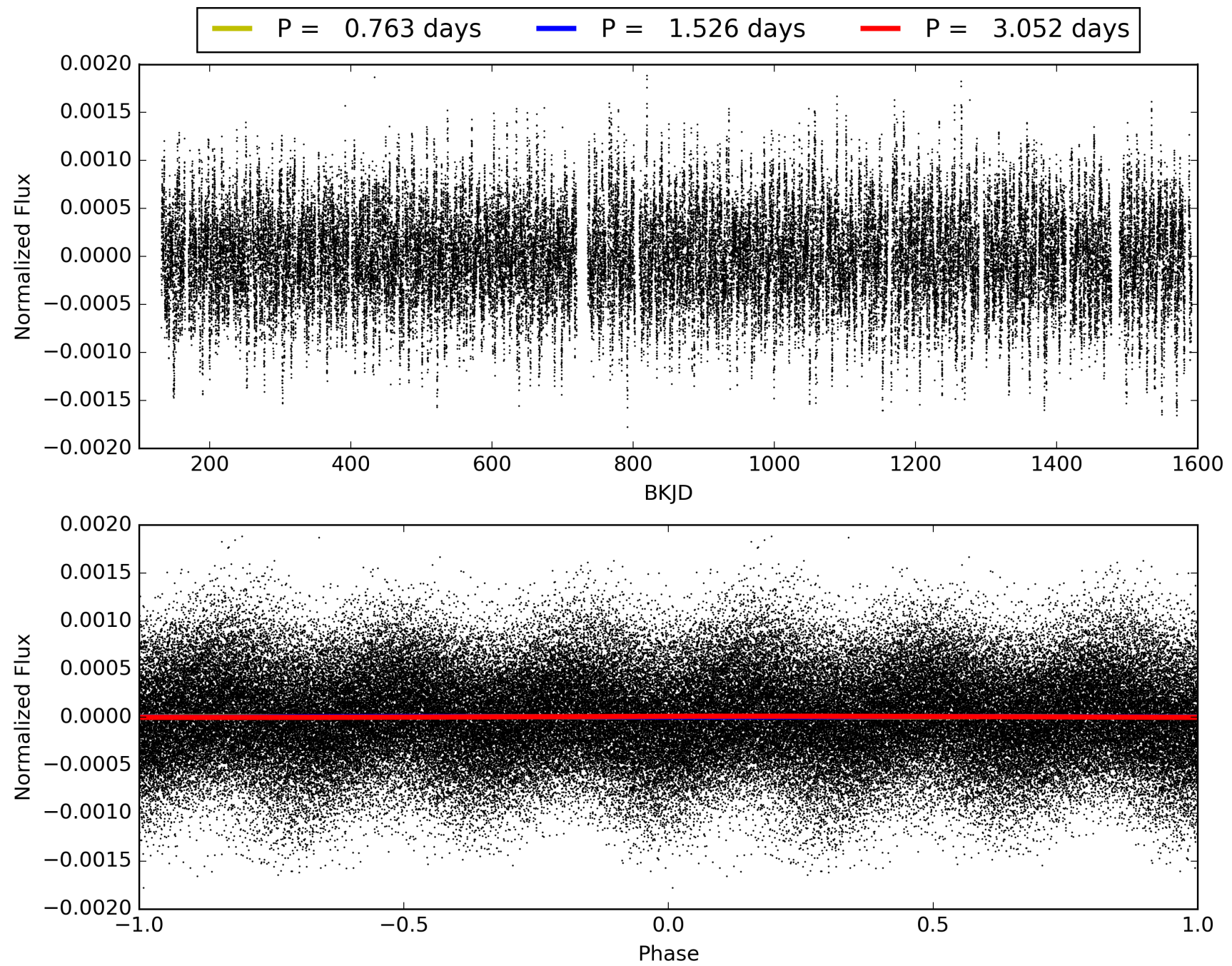
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 08:18:28 Z

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

TCE 006962752-01, PDC Light Curves

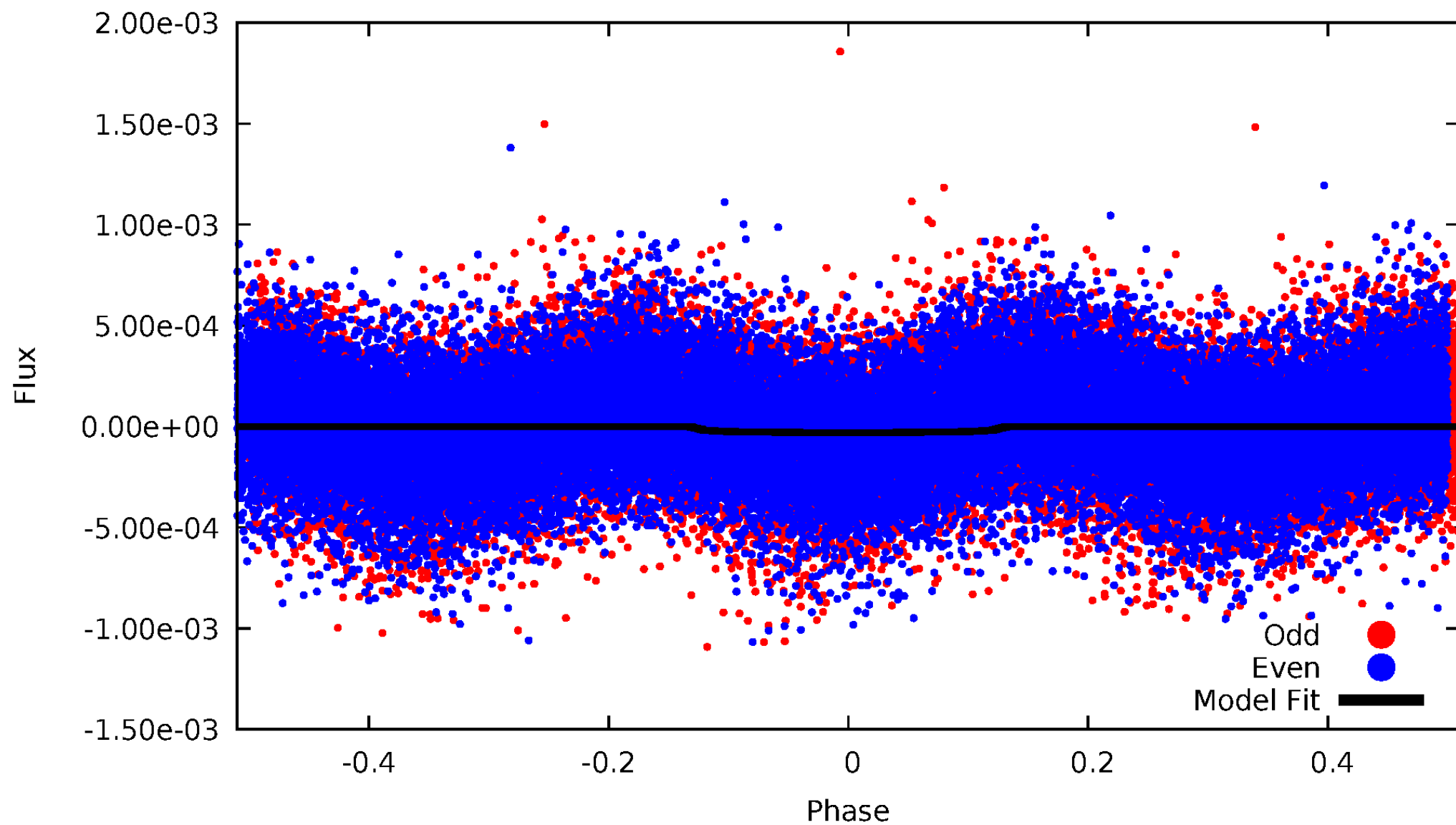


TCE 006962752-01



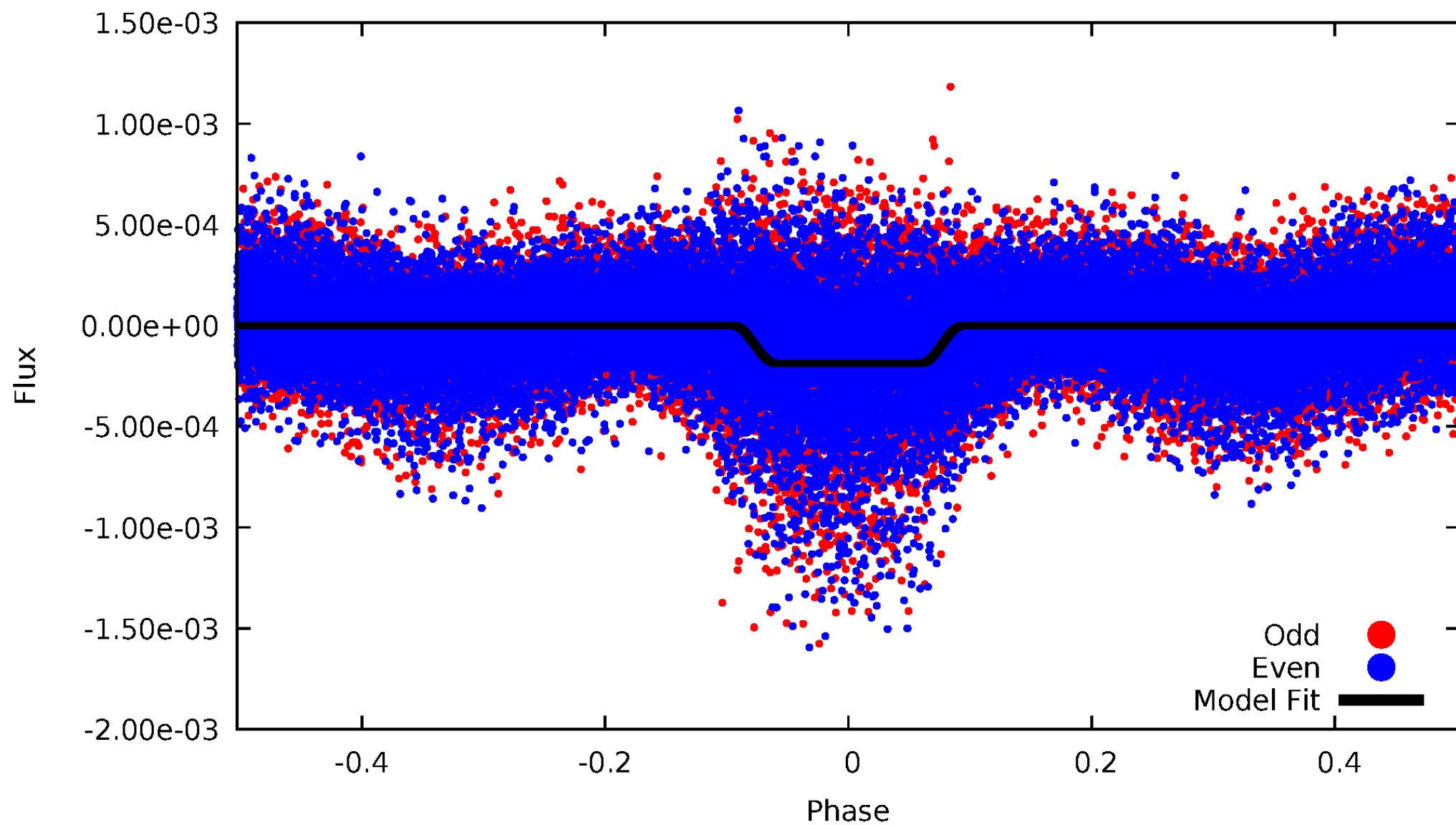
DV Odd/Even

TCE 006962752-01

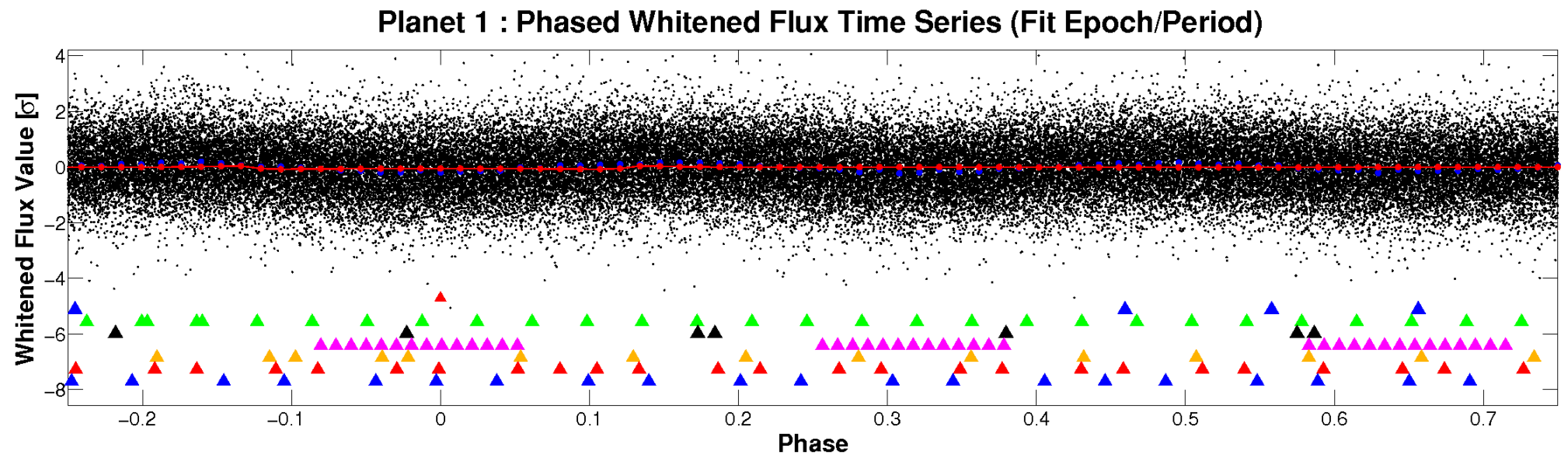
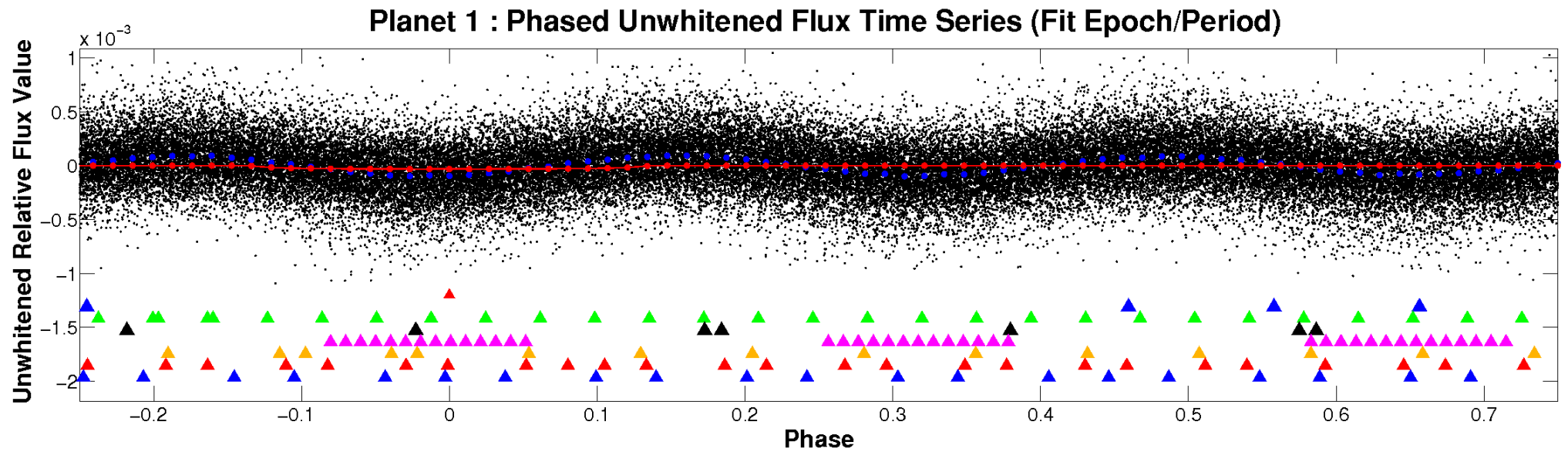


ALT Odd/Even

TCE 006962752-01

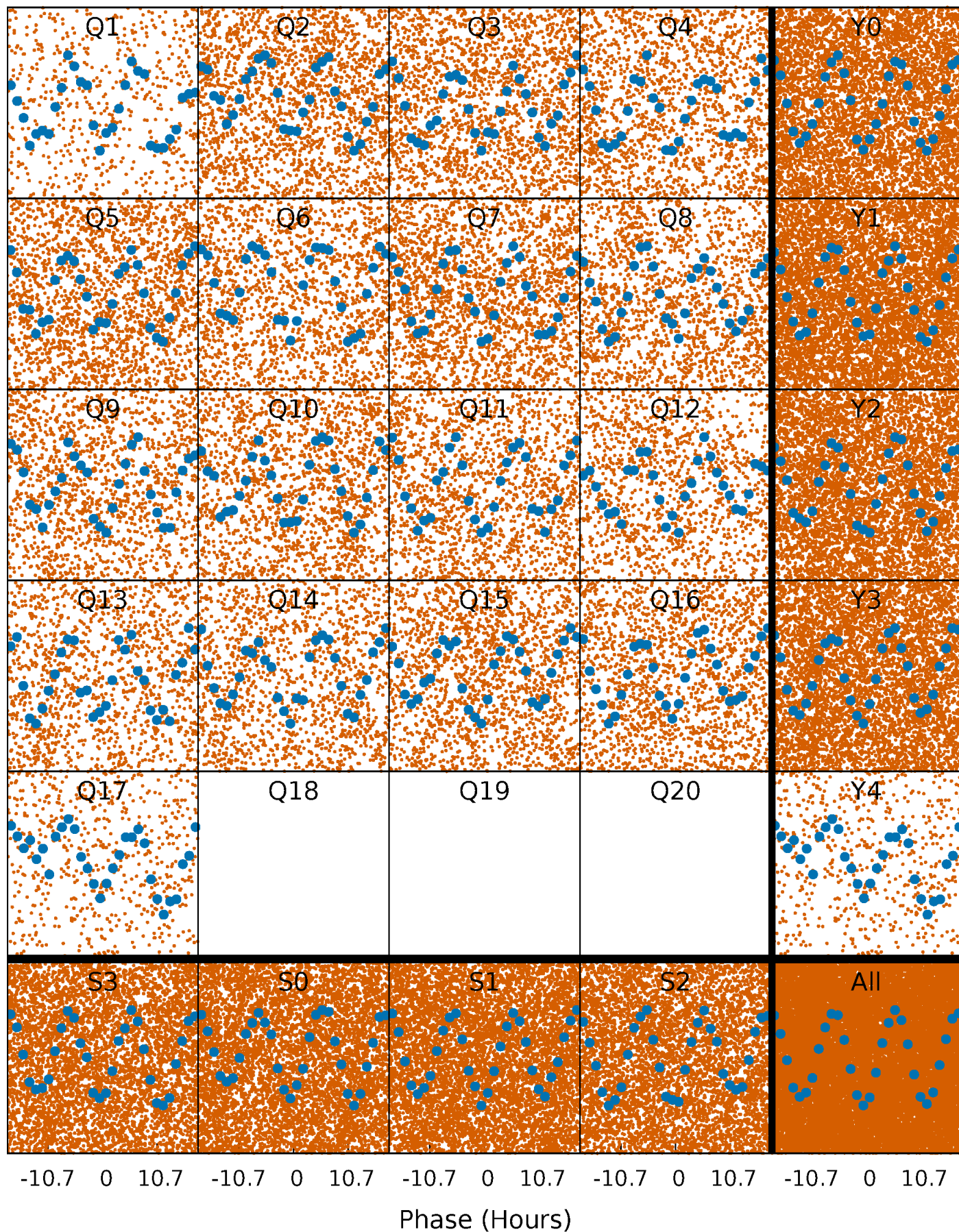


Non-Whitened Vs. Whitened Light Curve



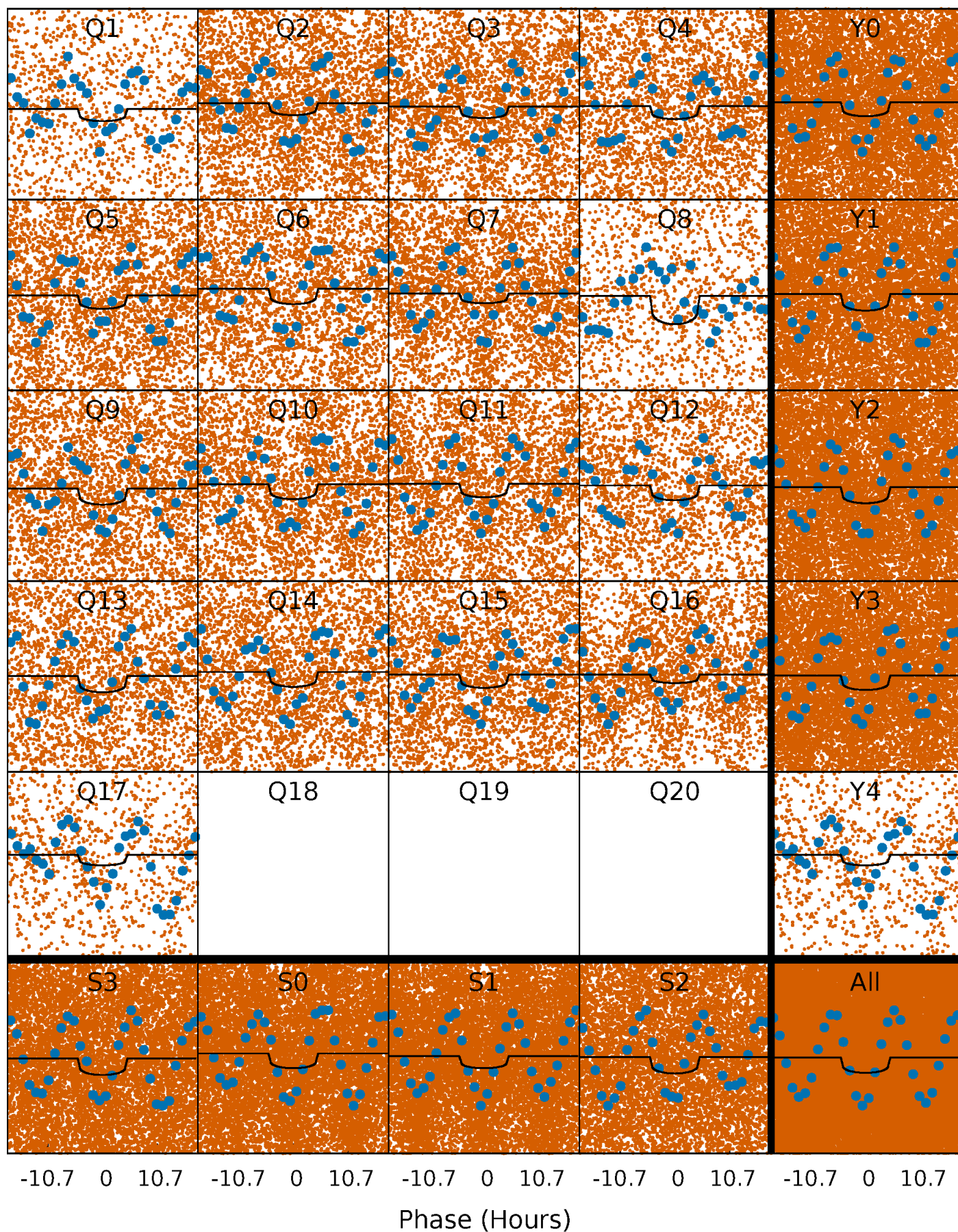
PDC Quarter-Phased Transit Curves

TCE 006962752-01 P= 1.525805 Days $T_0=132.313951$ (BKJD)



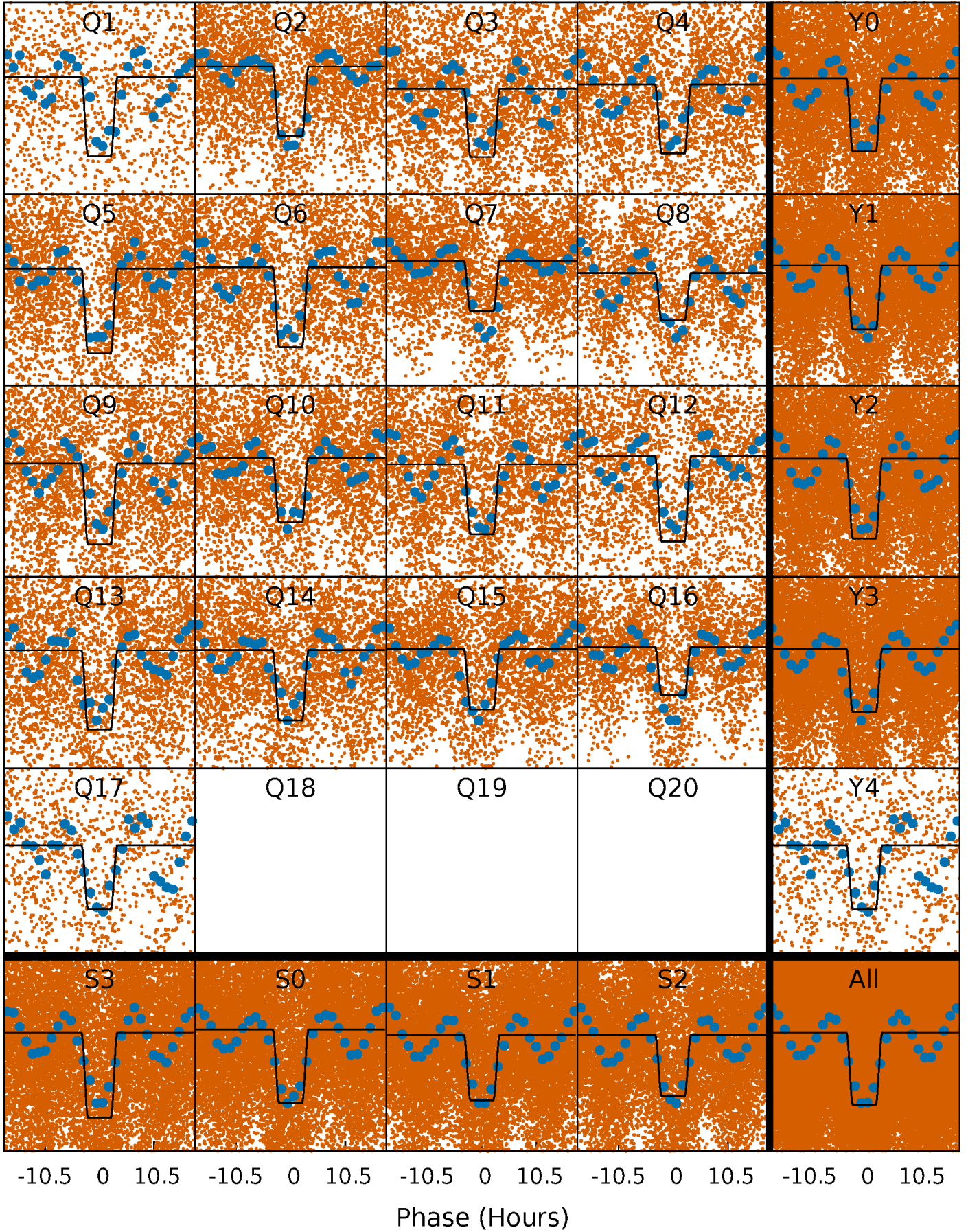
DV Quarter-Phased Transit Curves

TCE 006962752-01 P= 1.525805 Days $T_0=132.313951$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

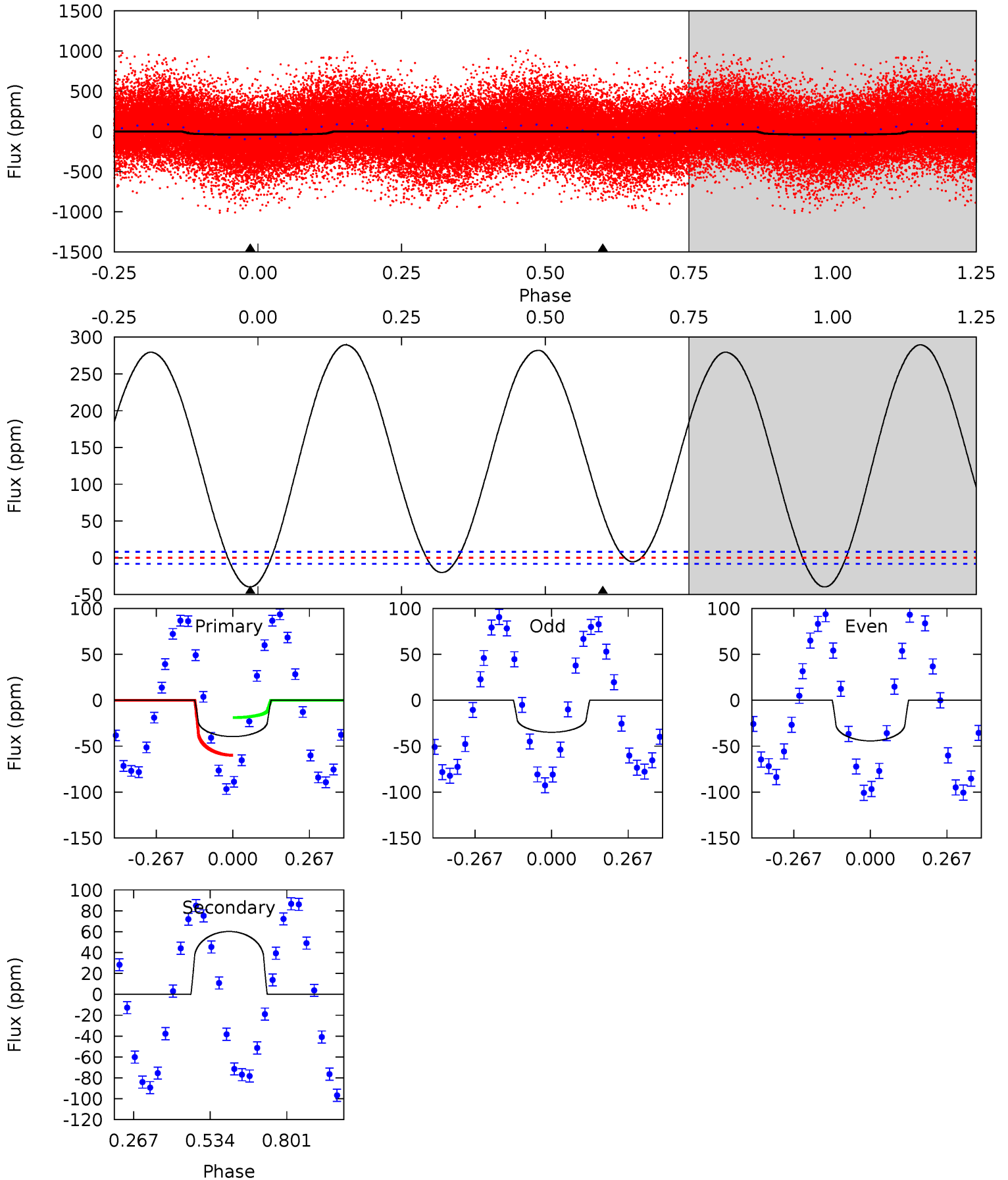
TCE 006962752-01 P= 1.525818 Days $T_0=132.284658$ (BKJD)



DV Model-Shift Uniqueness Test

006962752-01, P = 1.525805 Days, E = 130.788146 Days

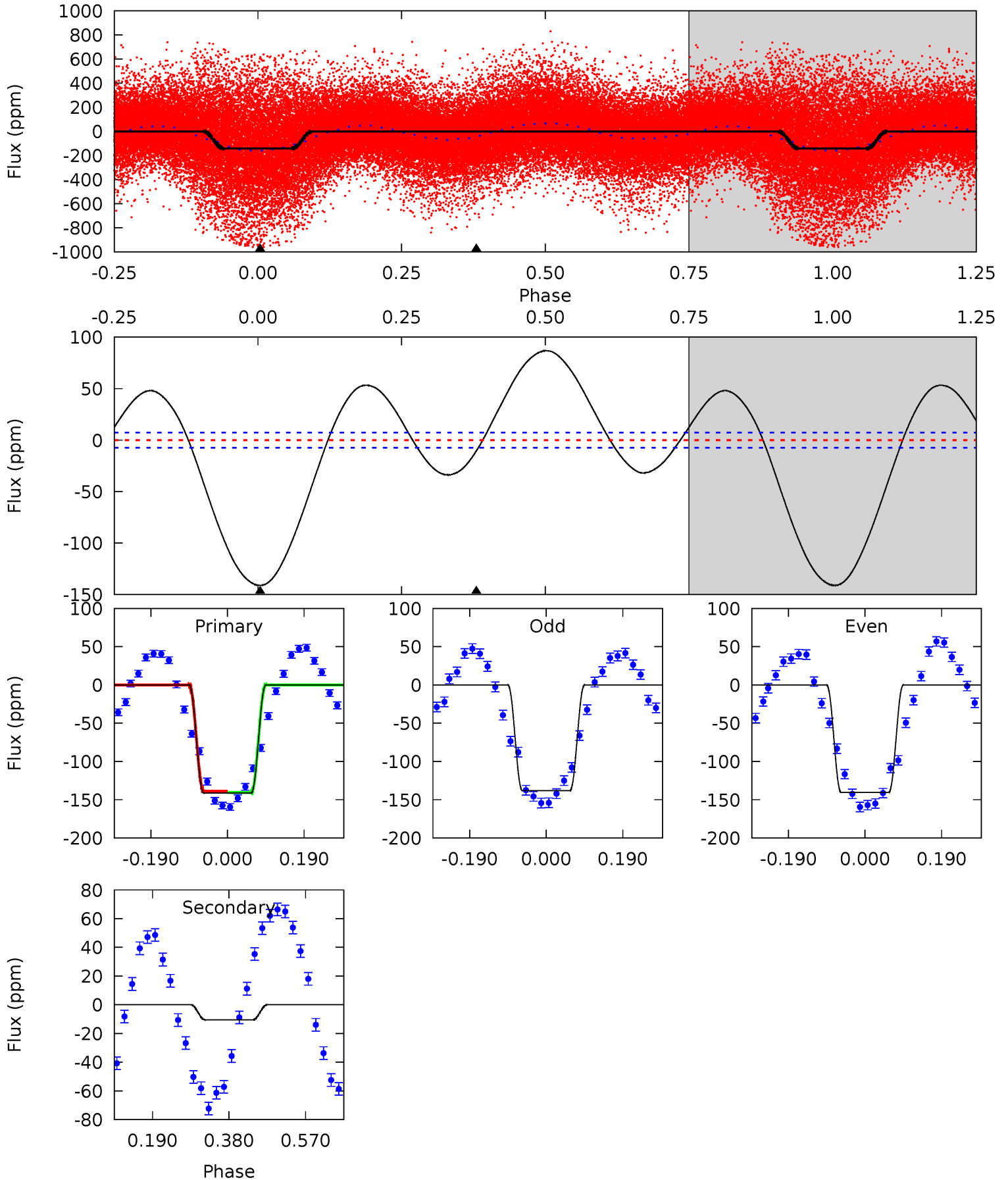
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.9	-31.8	0	0	4.35	1.11	21.6	20.9	20.9	-31.8	-31.8	2.48	1.06	0.88	11.3



Alt Model-Shift Uniqueness Test

006962752-01, P = 1.525818 Days, E = 130.758840 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
84.6	6.27	0	0	4.43	1.31	16.0	84.6	84.6	6.27	6.27	0.72	1.16	0.38	0.53



Stellar Parameters For KIC 006962752

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6472^{+176}_{-176}	$3.530^{+0.337}_{-0.112}$	$-0.320^{+0.350}_{-0.300}$	$3.620^{+0.483}_{-1.448}$	$1.621^{+0.212}_{-0.393}$	$0.048^{+0.128}_{-0.017}$
	+3%/-3%	+10%/-3%	+109%/-94%	+13%/-40%	+13%/-24%	+267%/-36%
Source	PHO1	FLK73	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 006962752-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	60 ± 2	$2.01^{+1.31}_{-1.15}$	4295^{+262}_{-402}	-7996^{+1731}_{-7316}	$-7.665^{+4.900}_{-34.924}$
Alt.	-10 ± 2	$5.15^{+1.59}_{-1.51}$	4316^{+249}_{-417}	-3205^{+6333}_{-440}	$0.202^{+0.201}_{-0.085}$

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

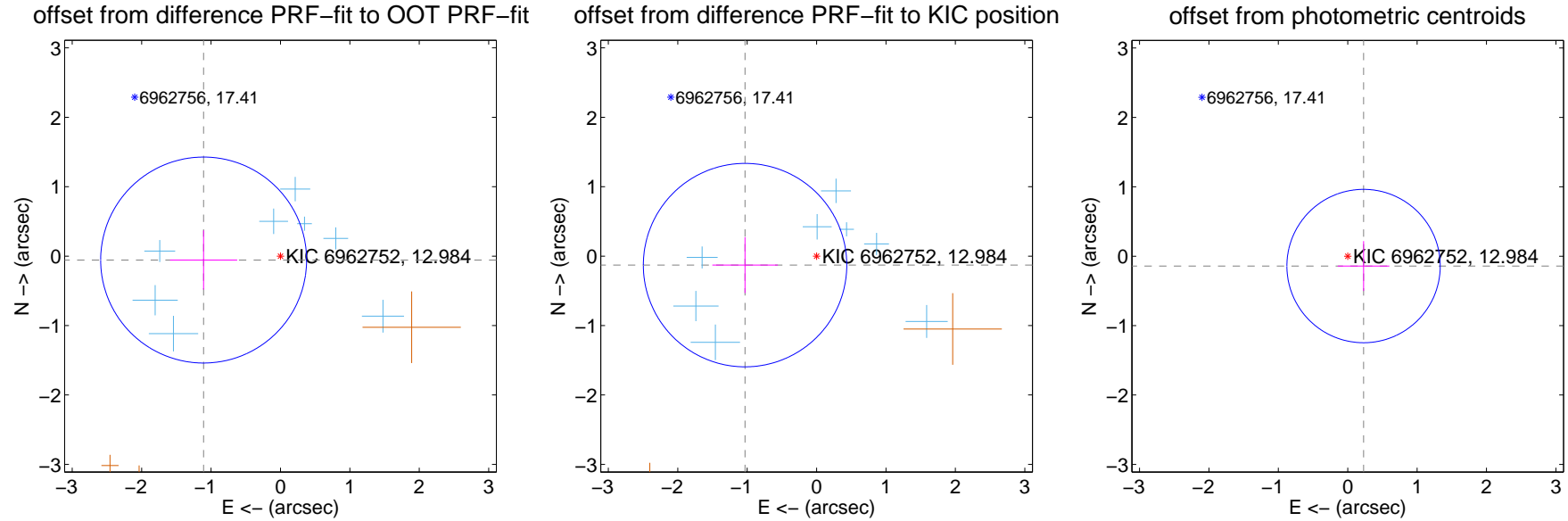
DV Centroid Data

Supplemental centroid analysis for 006962752-01. Kepler magnitude: 12.98. Transit SNR 8.20

There are 8 quarters with good PRF difference image offsets

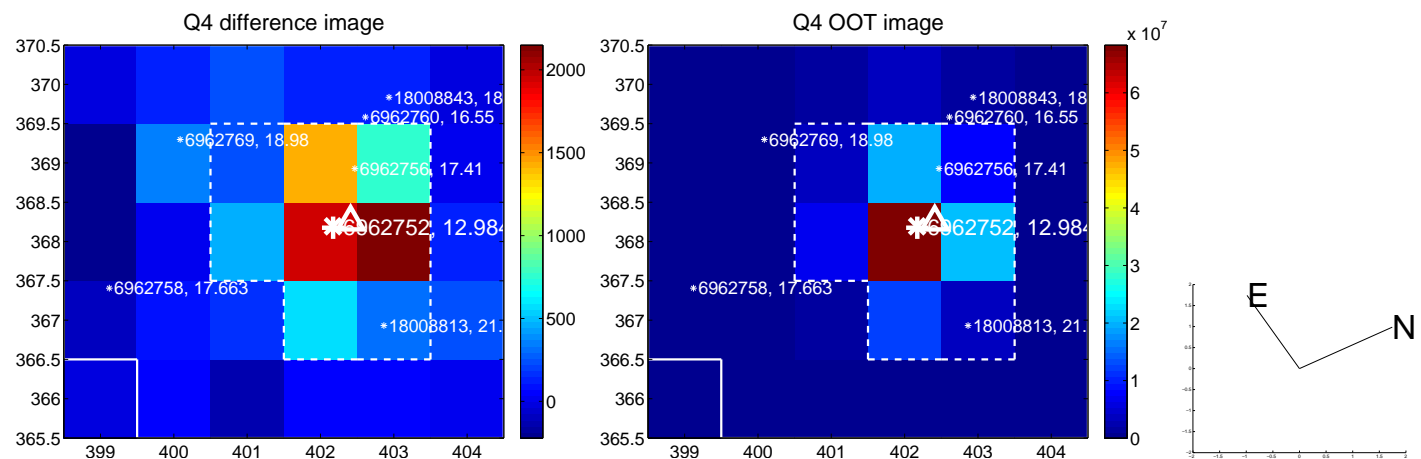
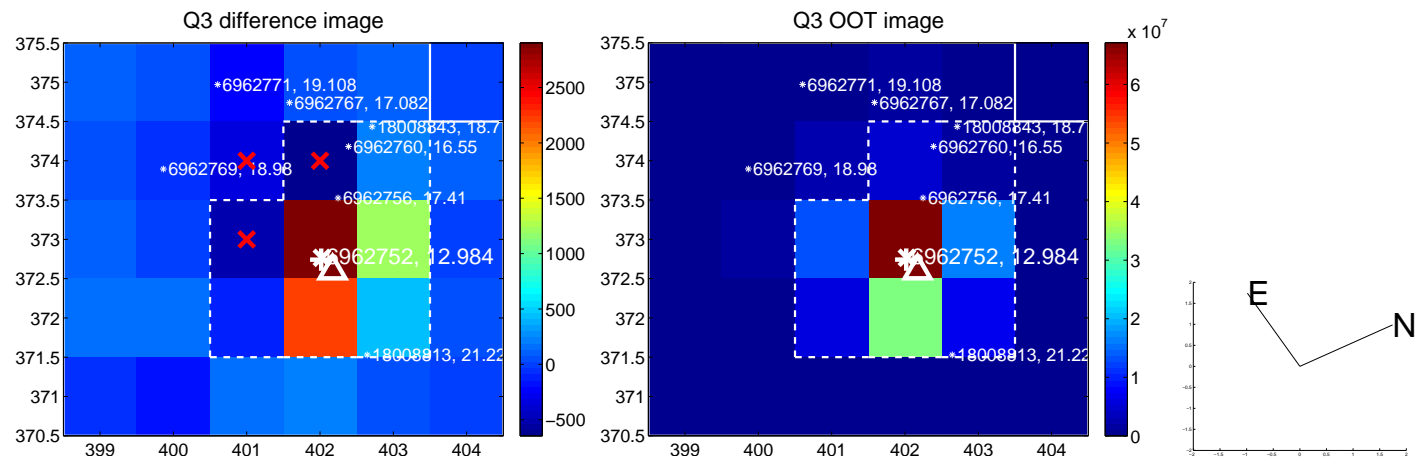
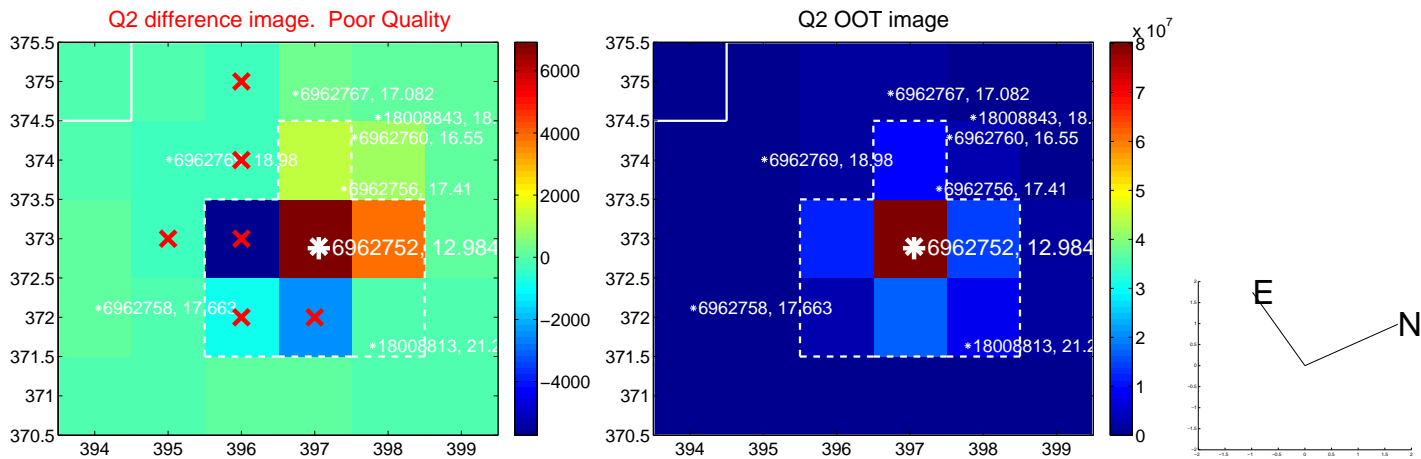
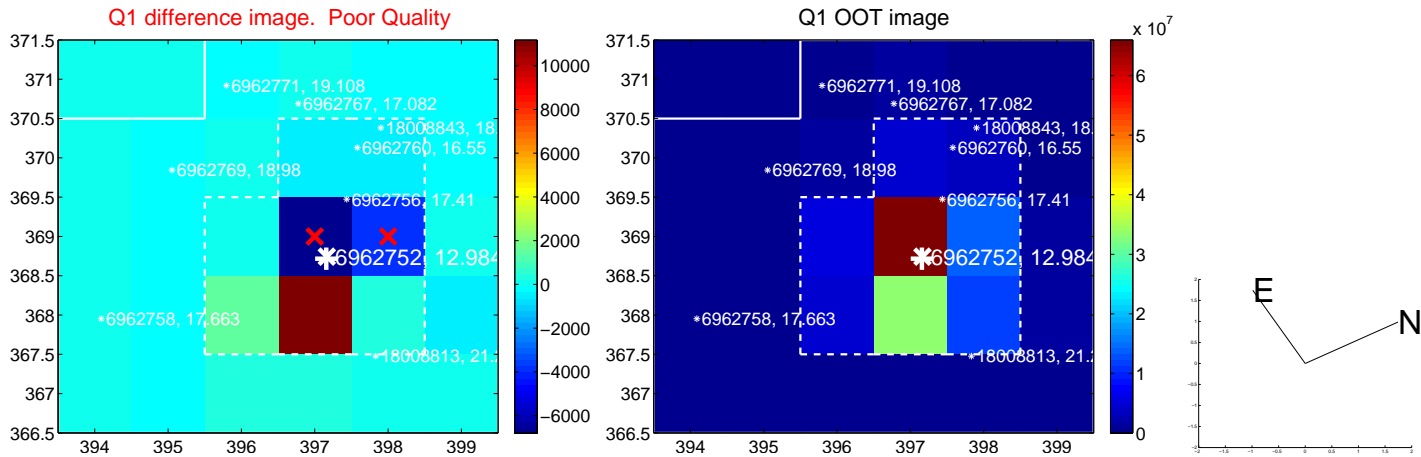
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.108 ± 0.494	2.24	1.107 ± 0.483	-0.056 ± 0.426
PRF-fit source offset from KIC position	1.039 ± 0.488	2.13	1.030 ± 0.472	-0.129 ± 0.403
photometric centroid source offset	0.27 ± 0.37	0.73	-0.23 ± 0.37	-0.14 ± 0.36

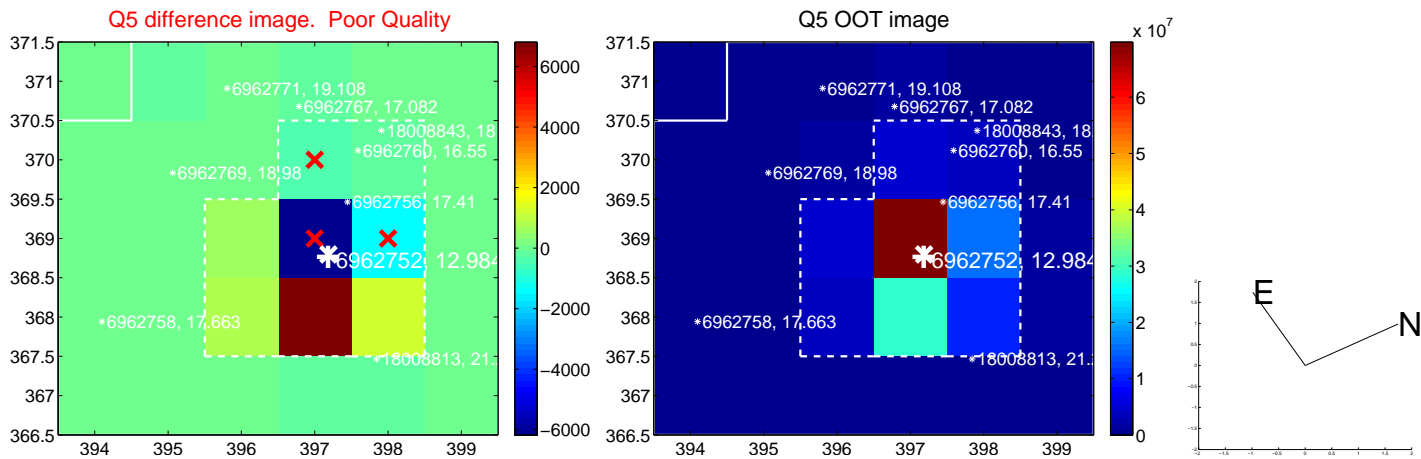


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

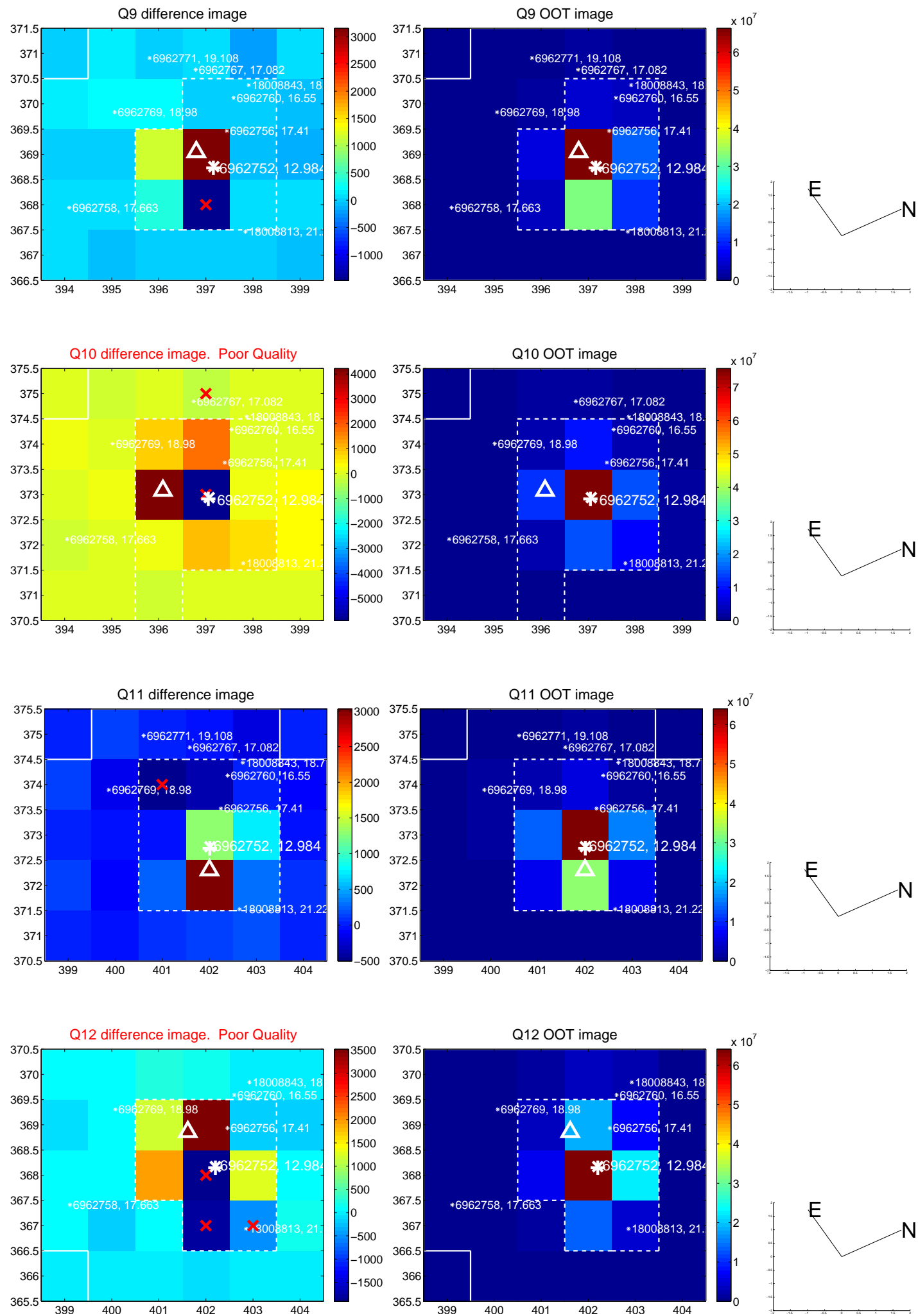
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



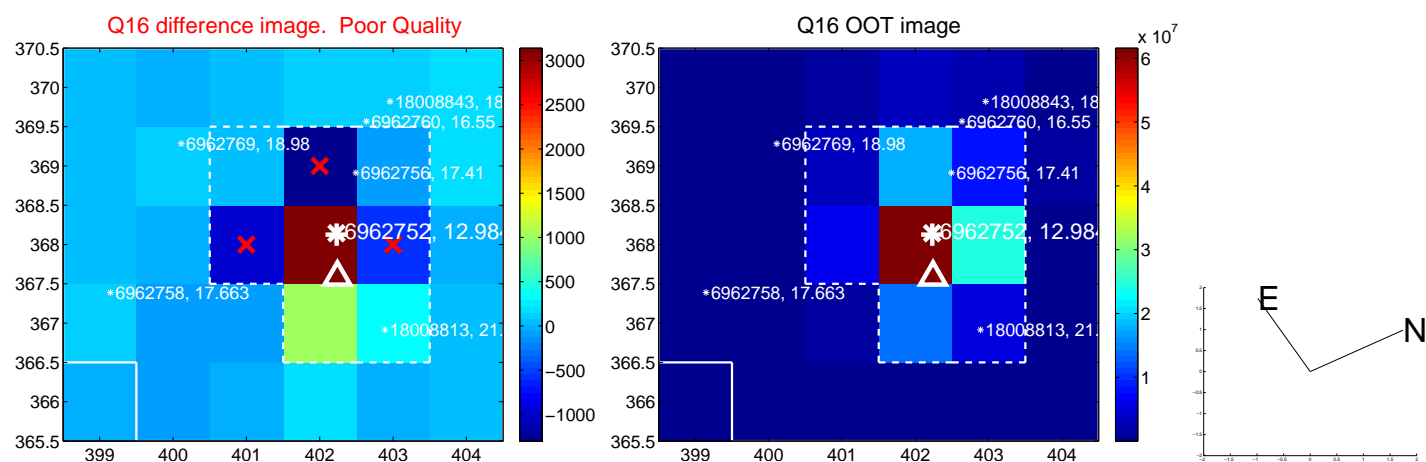
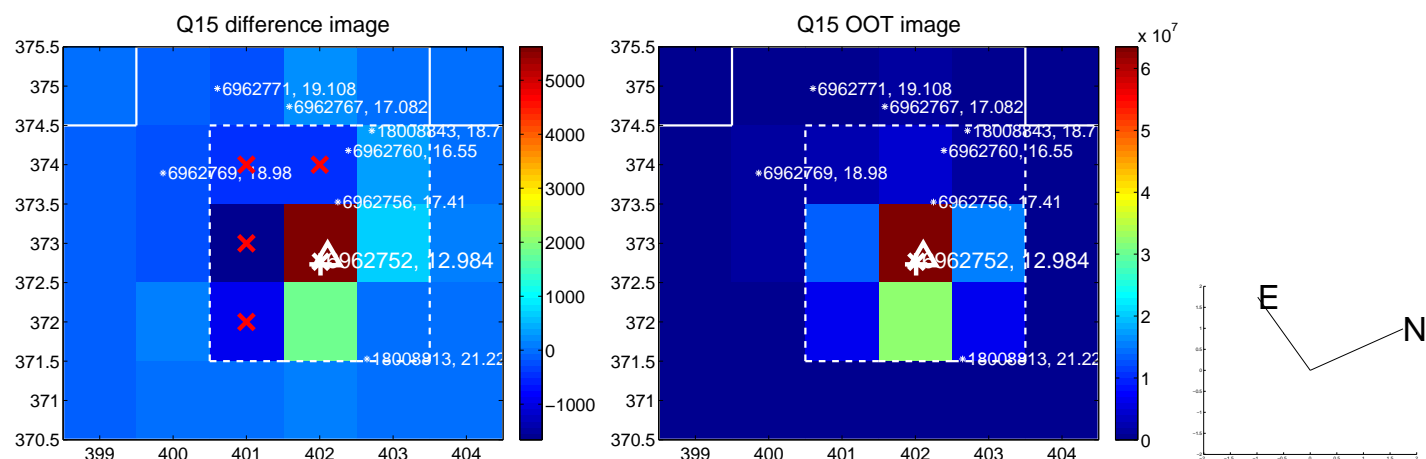
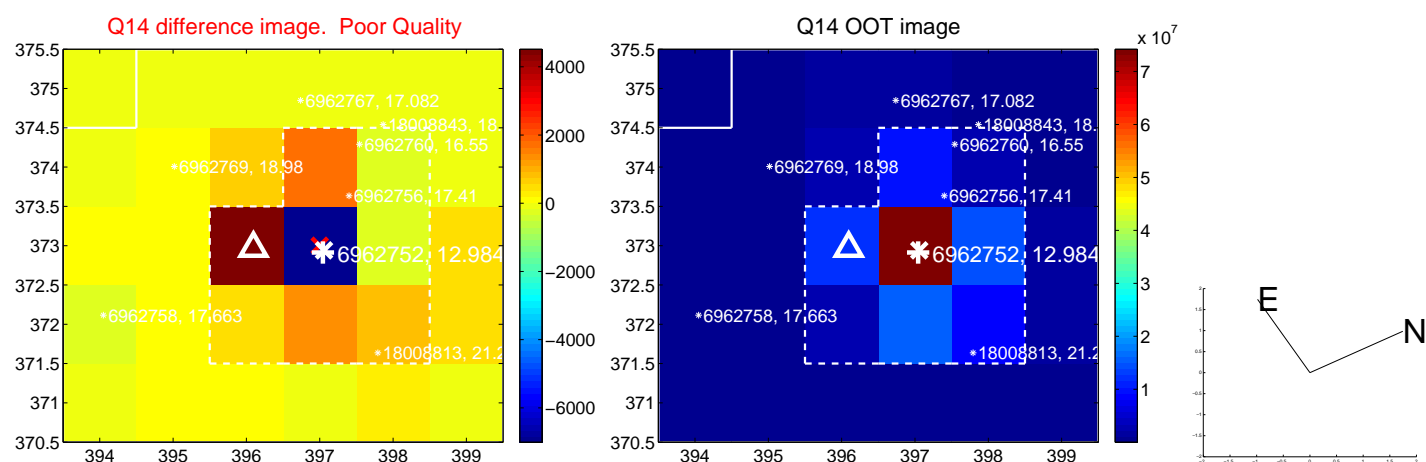
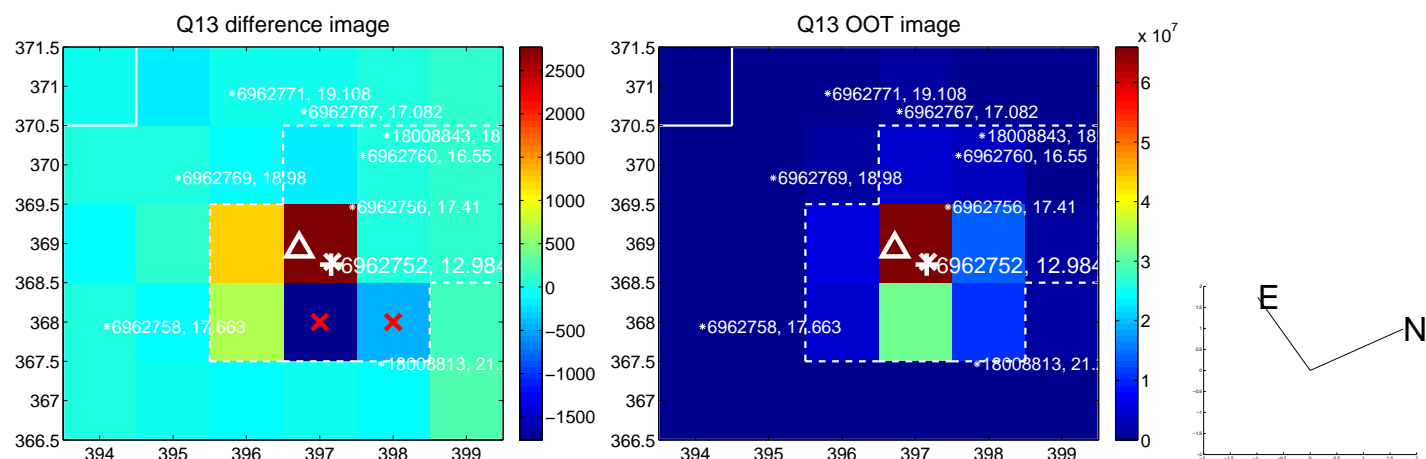
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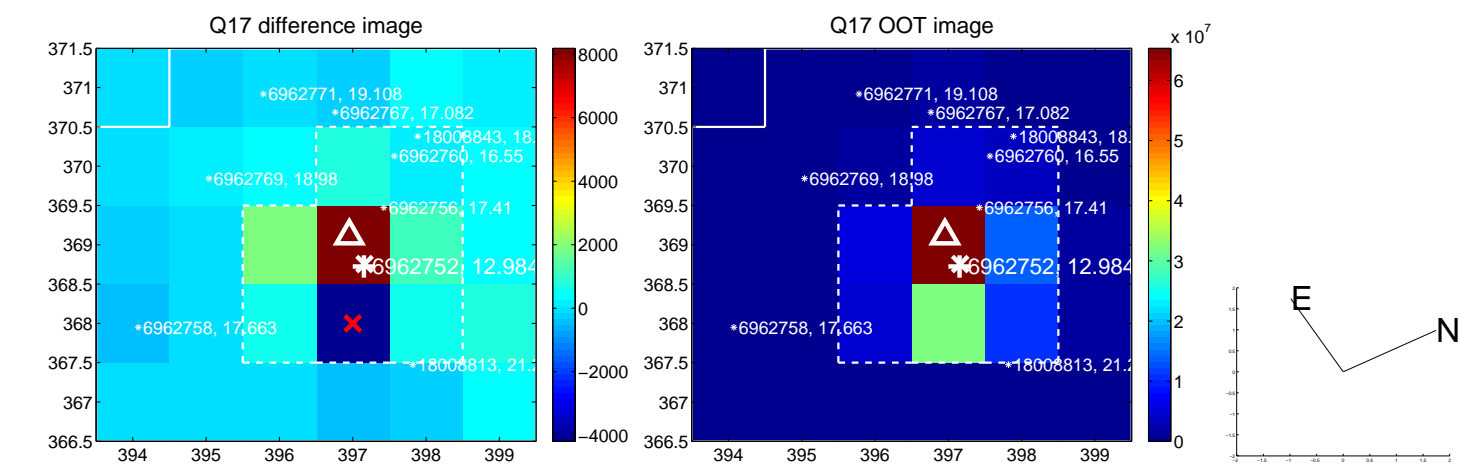
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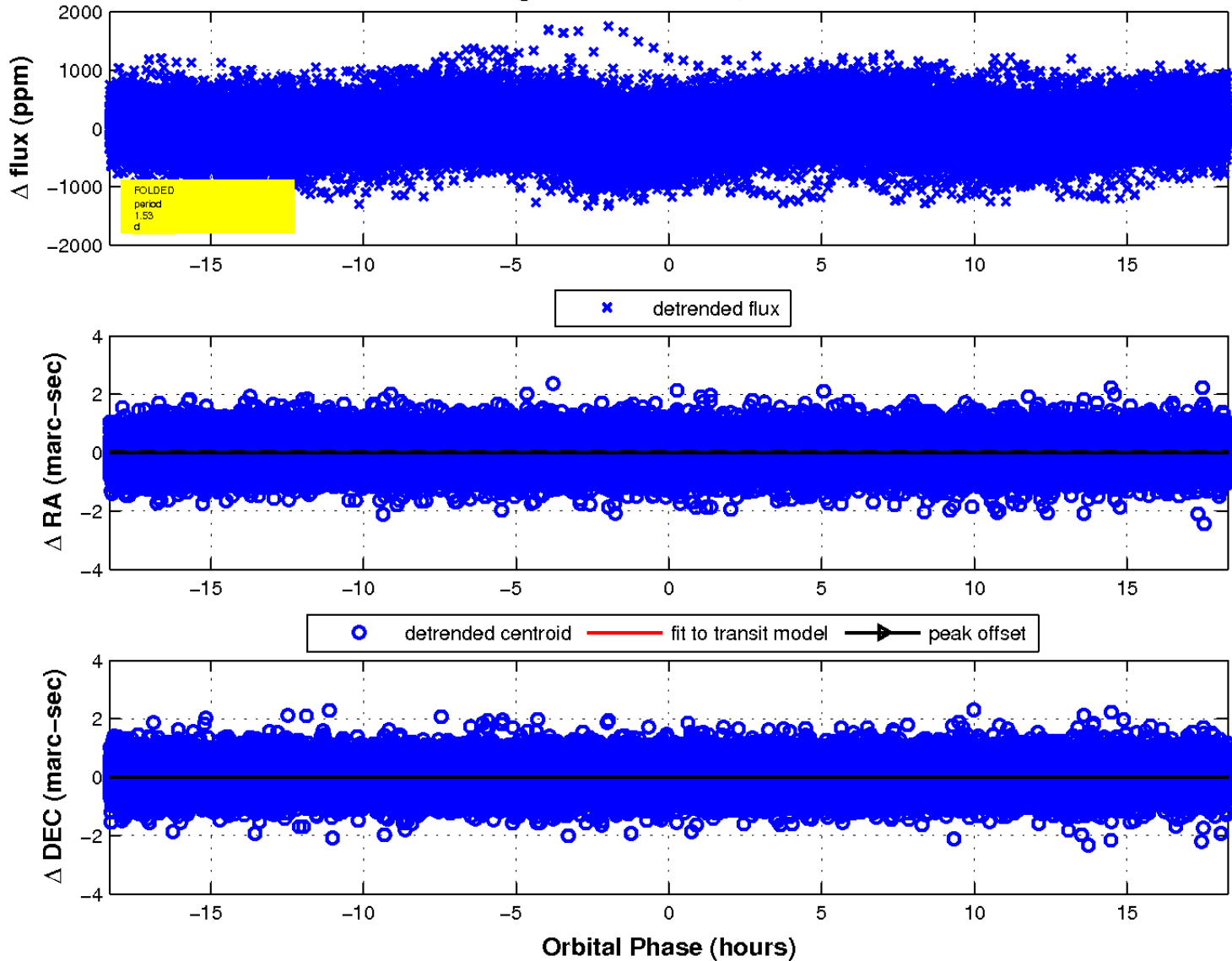
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white \times : KIC target position; $+$: OOT centroid; Δ : difference centroid. red \times : large negative pixel value.

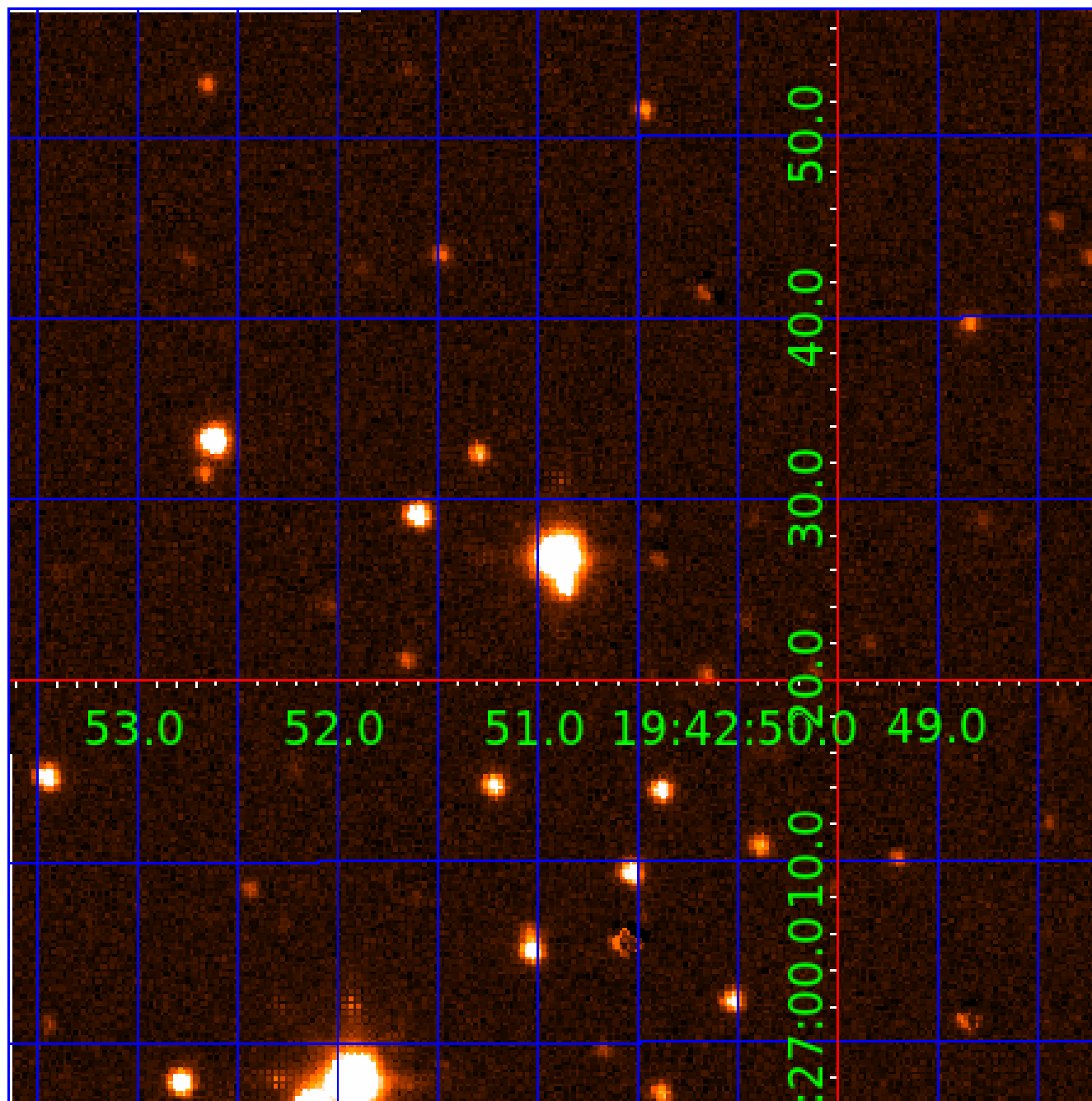


fluxWeightedCentroids, Planet 1 of 8



UKIRT Image

Declination



KIC 006962752

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006962752-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
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006962752-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT

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

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

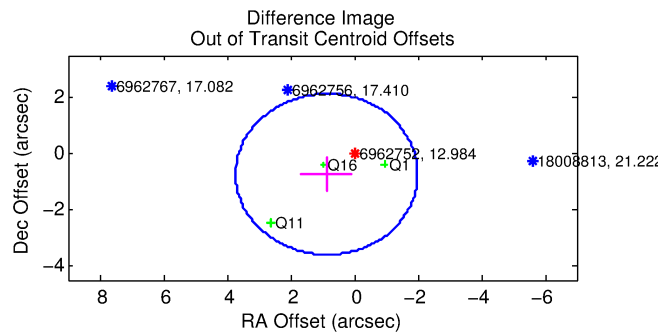
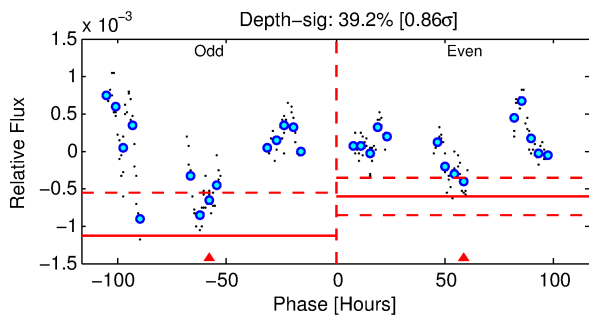
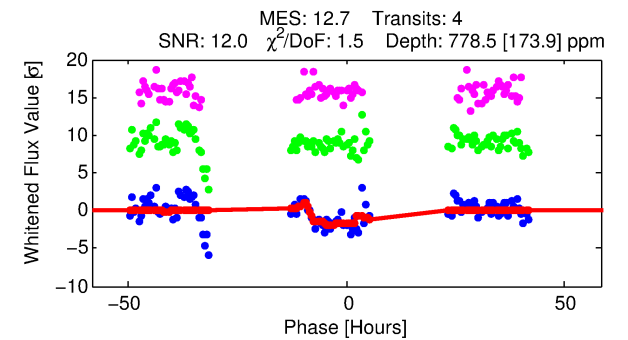
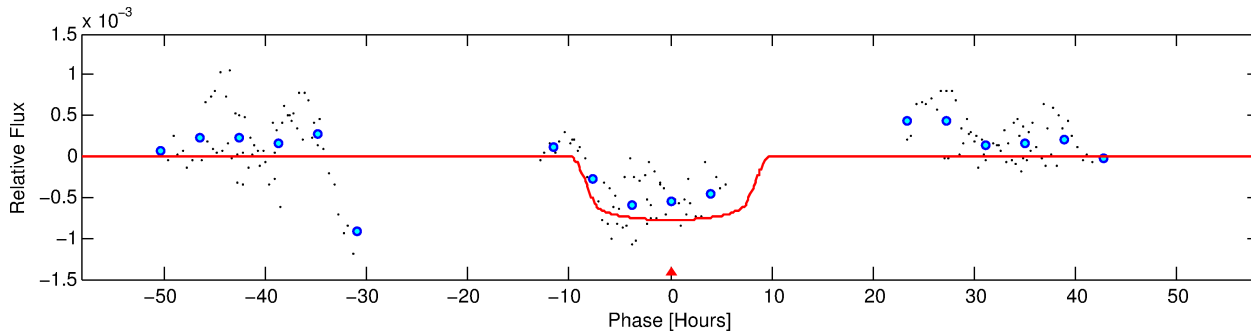
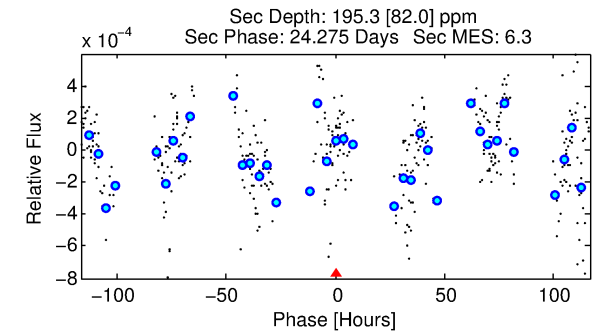
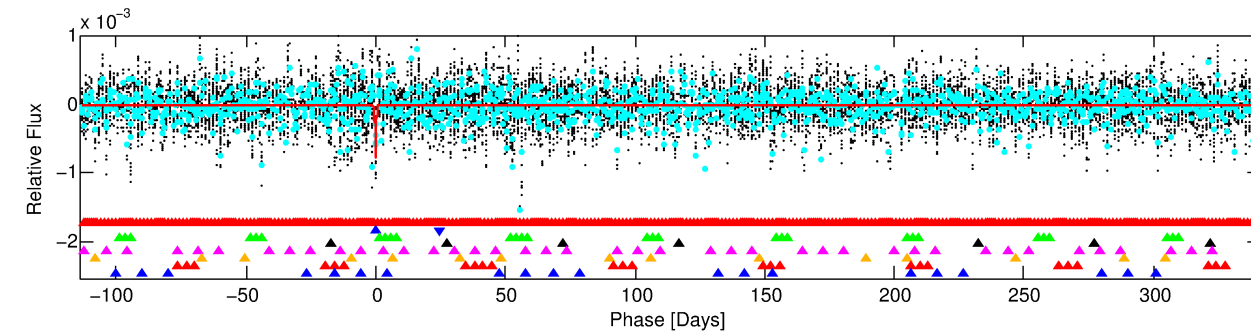
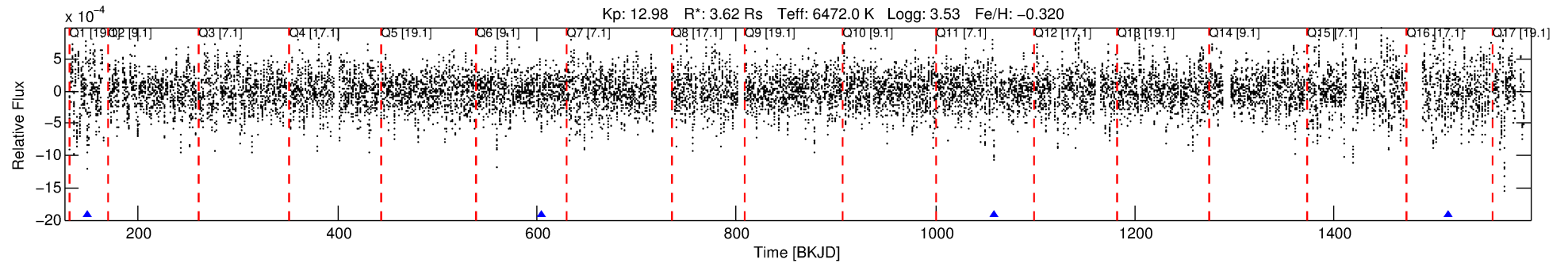
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006962752-02

No Significant Match Found

DV One-Page Summary

KIC: 6962752 Candidate: 2 of 8 Period: 454.840 d



DV Fit Results:

Period = 454.84002 [0.03288] d
Epoch = 149.7989 [0.0890] BKJD
Rp/R* = 0.0297 [0.0030]
a/R* = 91.53 [24.88]
b = 0.89 [0.07]
Seff = 11.14 [6.60]
Teq = 466 [69] K
Rp = 11.73 [4.84] Re
a = 1.3596 [0.5051] AU
Ag = 1442.48 [1074.72] [1.34σ]
Teffp = 4439 [530] K [7.43σ]

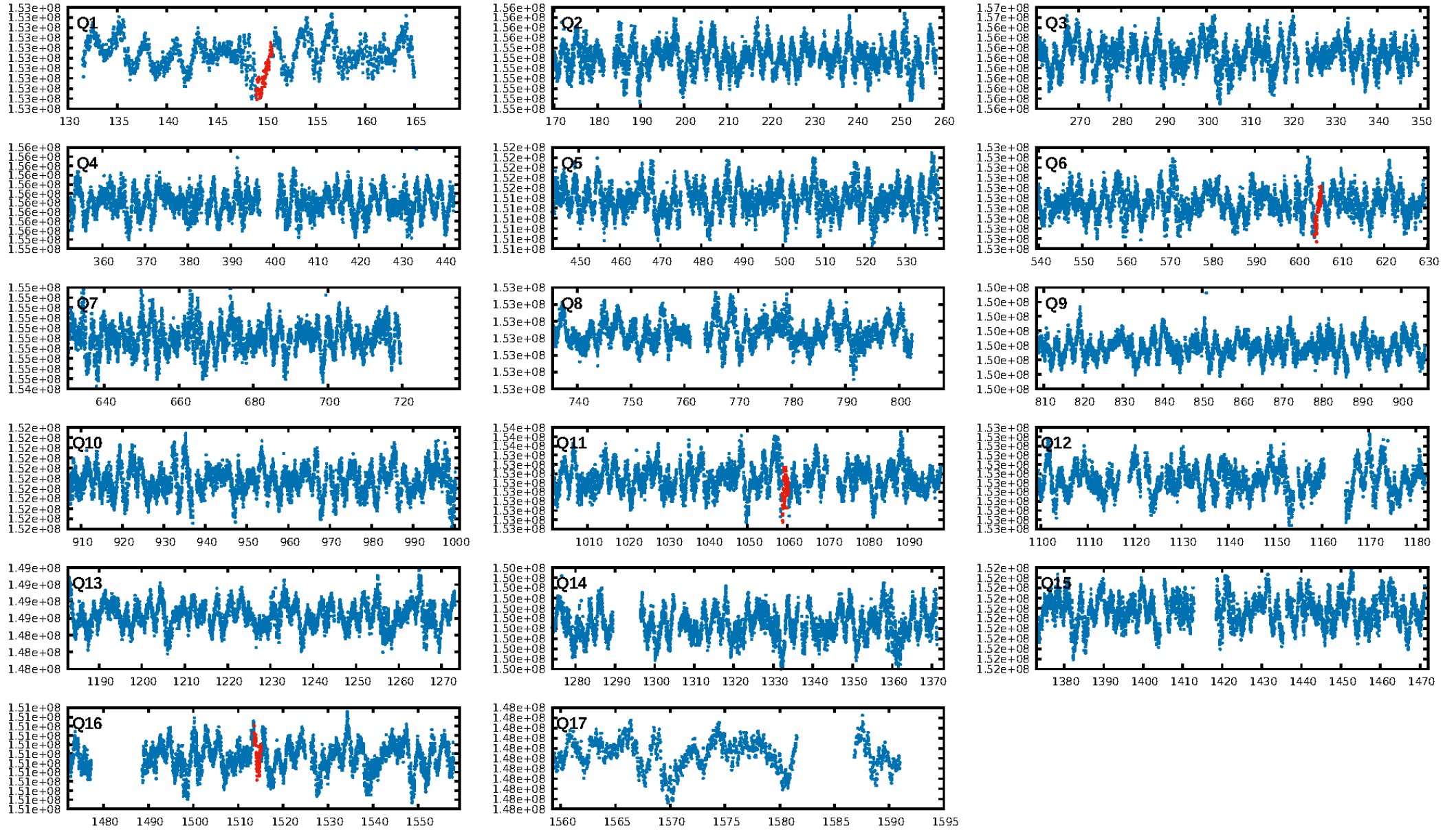
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [294.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 1.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.07384
Centroid-sig: 61.9%
Centroid-so: 0.155 arcsec [0.91σ]
OotOffset-rm: 1.136 arcsec [1.19σ]
KicOffset-rm: 1.126 arcsec [1.05σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 0.00 [0/4]

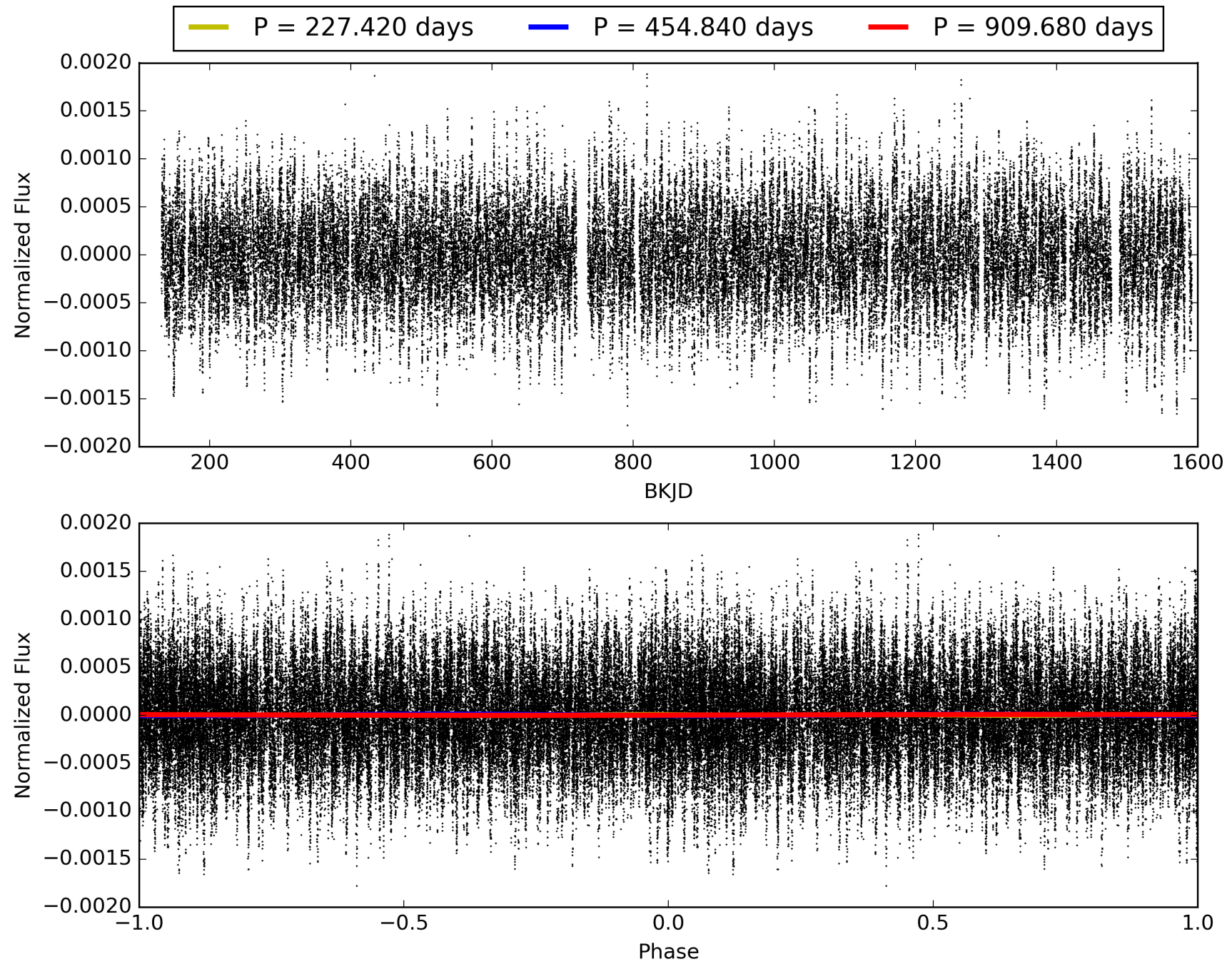
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 08:18:39 Z

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

TCE 006962752-02, PDC Light Curves

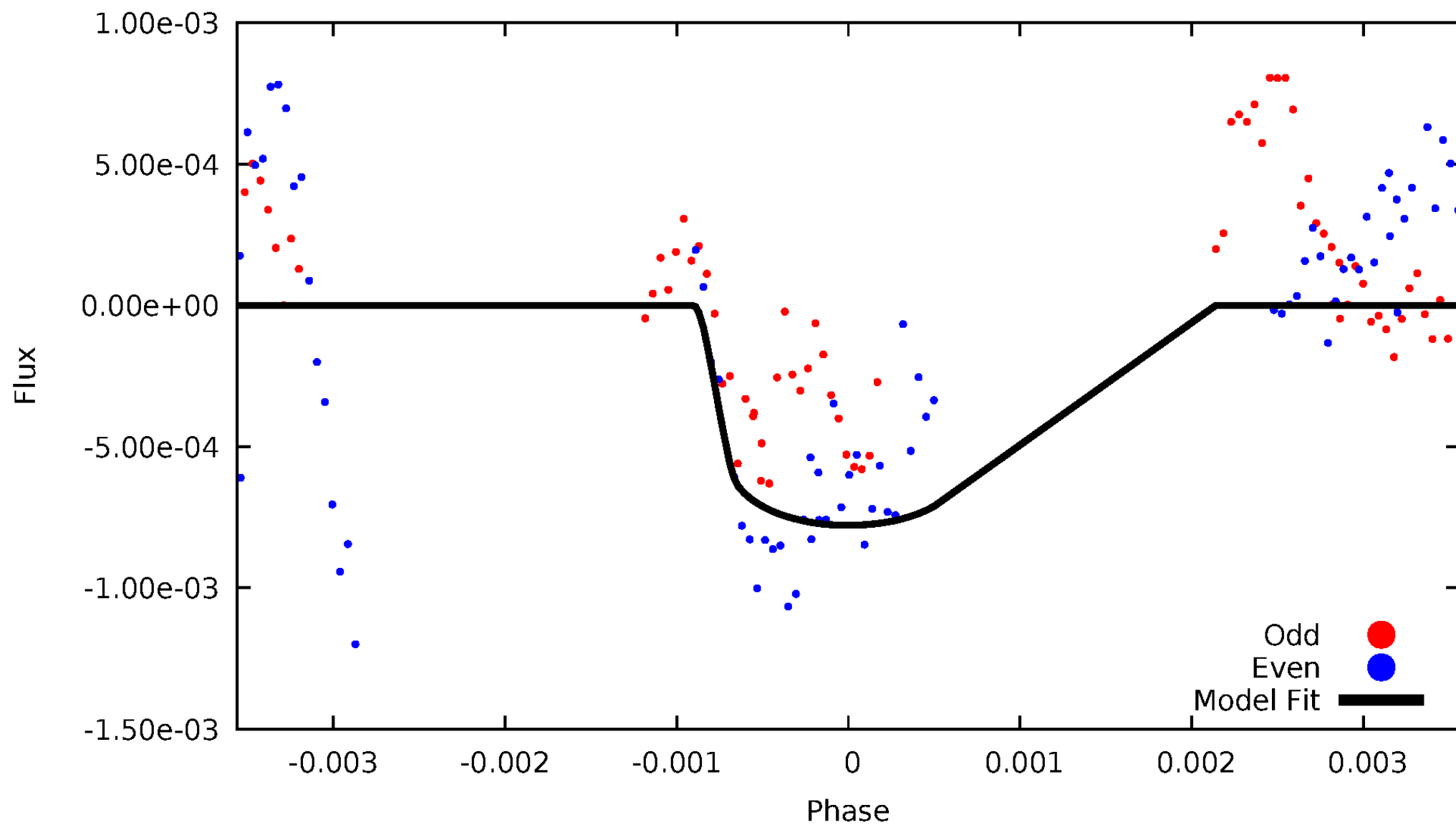


TCE 006962752-02



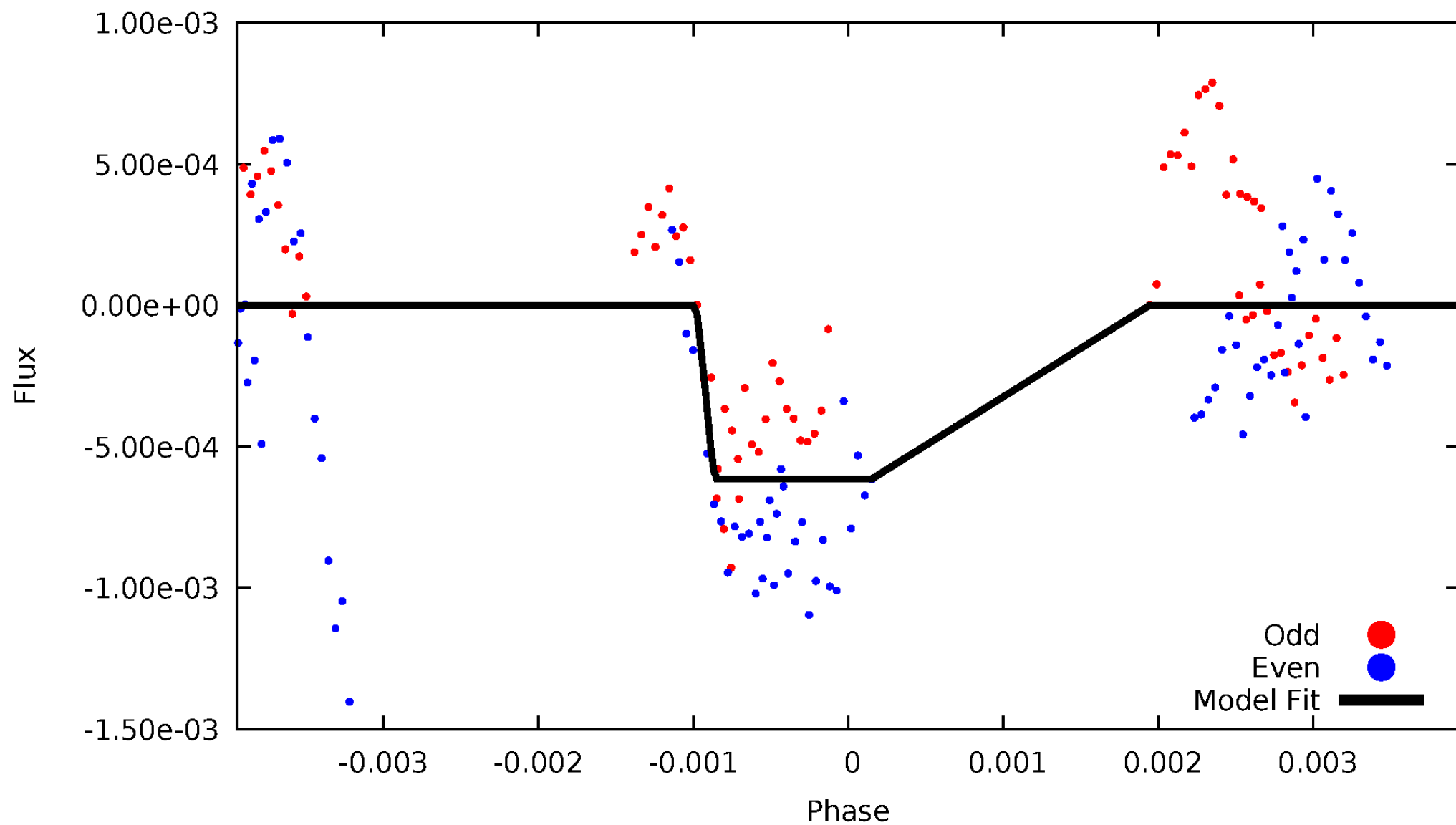
DV Odd/Even

TCE 006962752-02



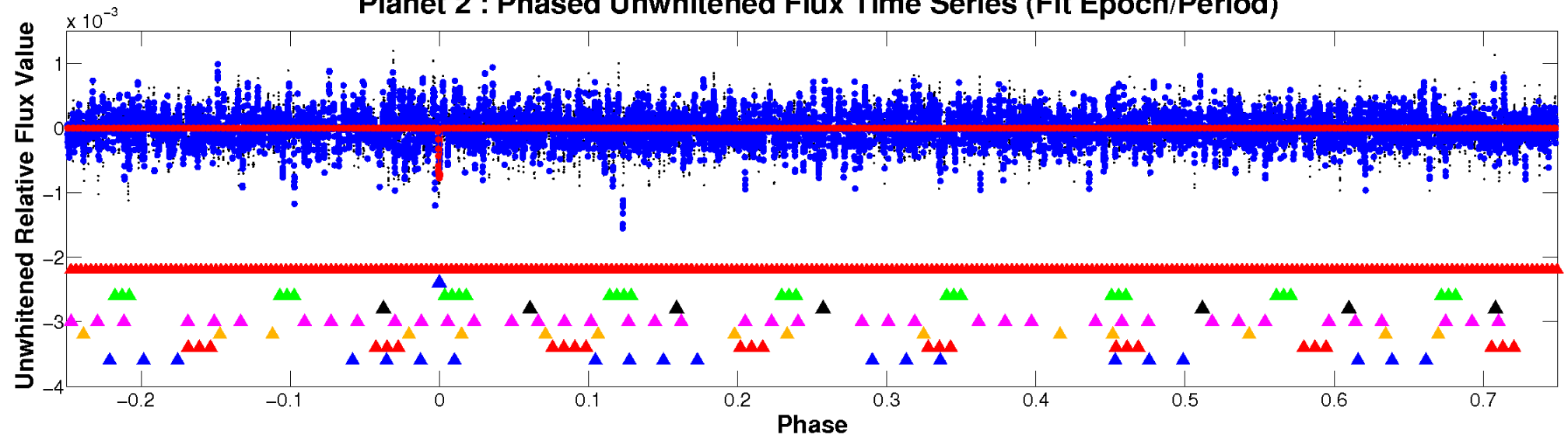
ALT Odd/Even

TCE 006962752-02

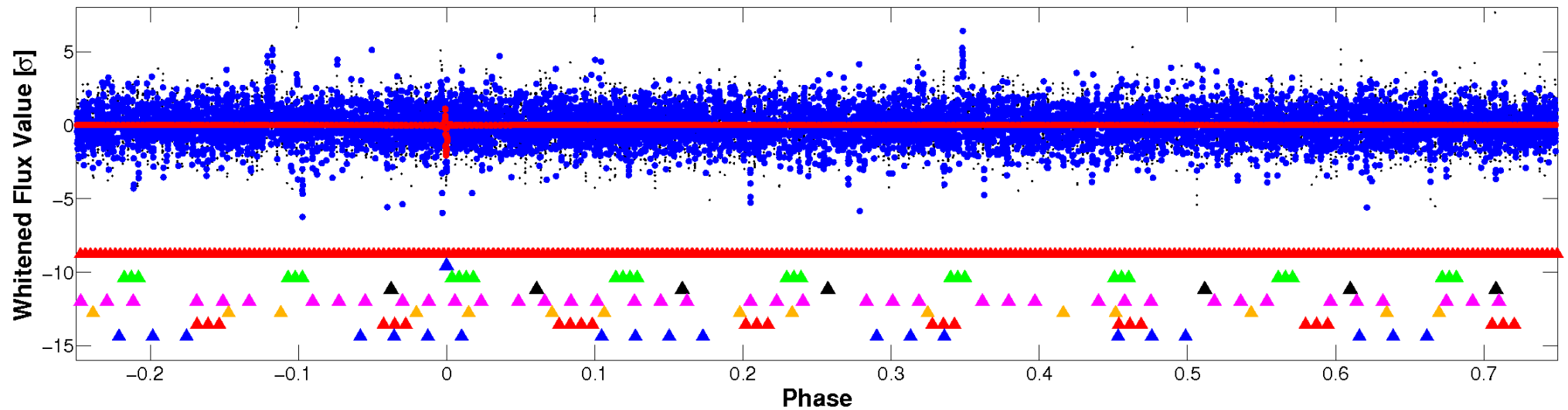


Non-Whitened Vs. Whitened Light Curve

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

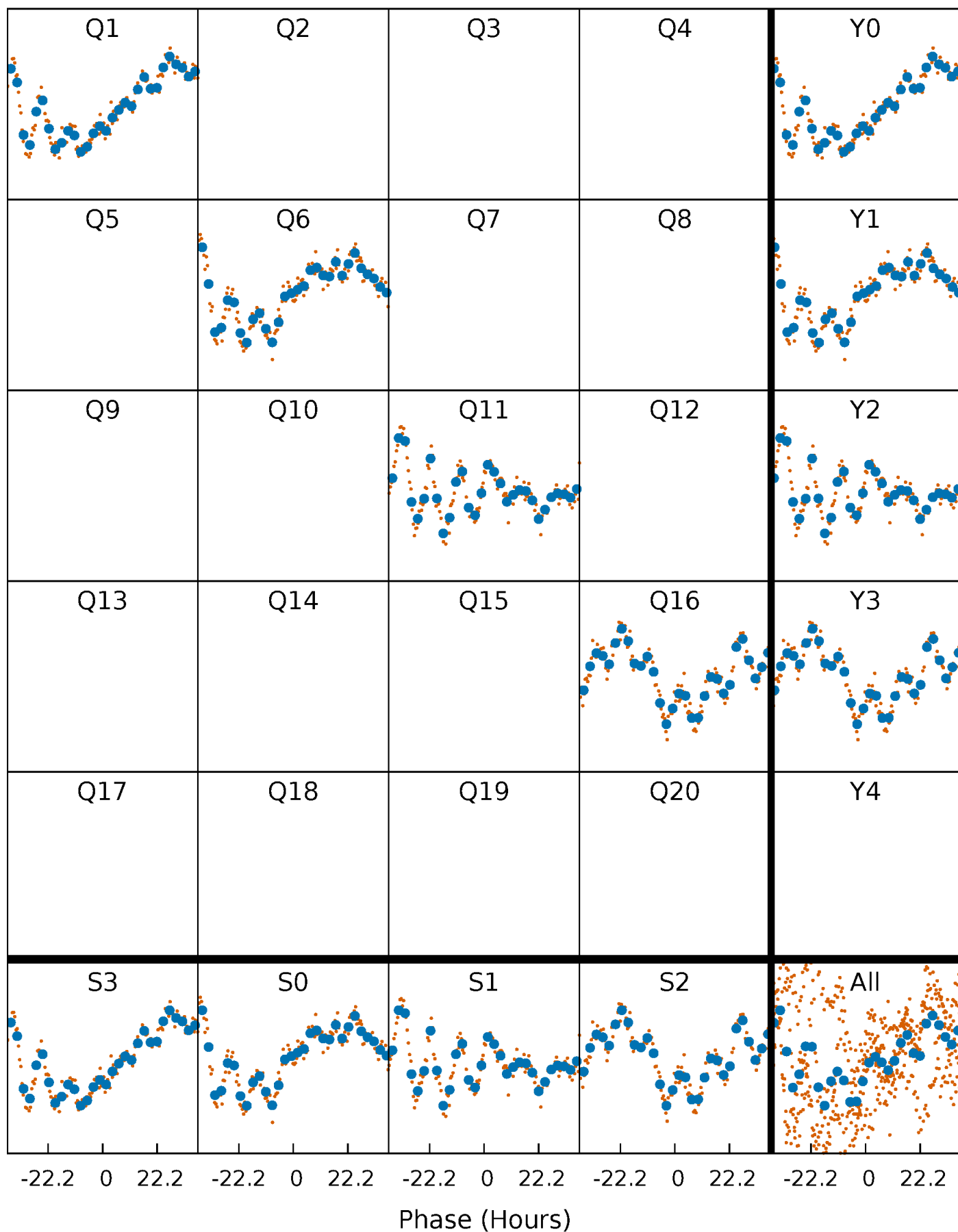


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



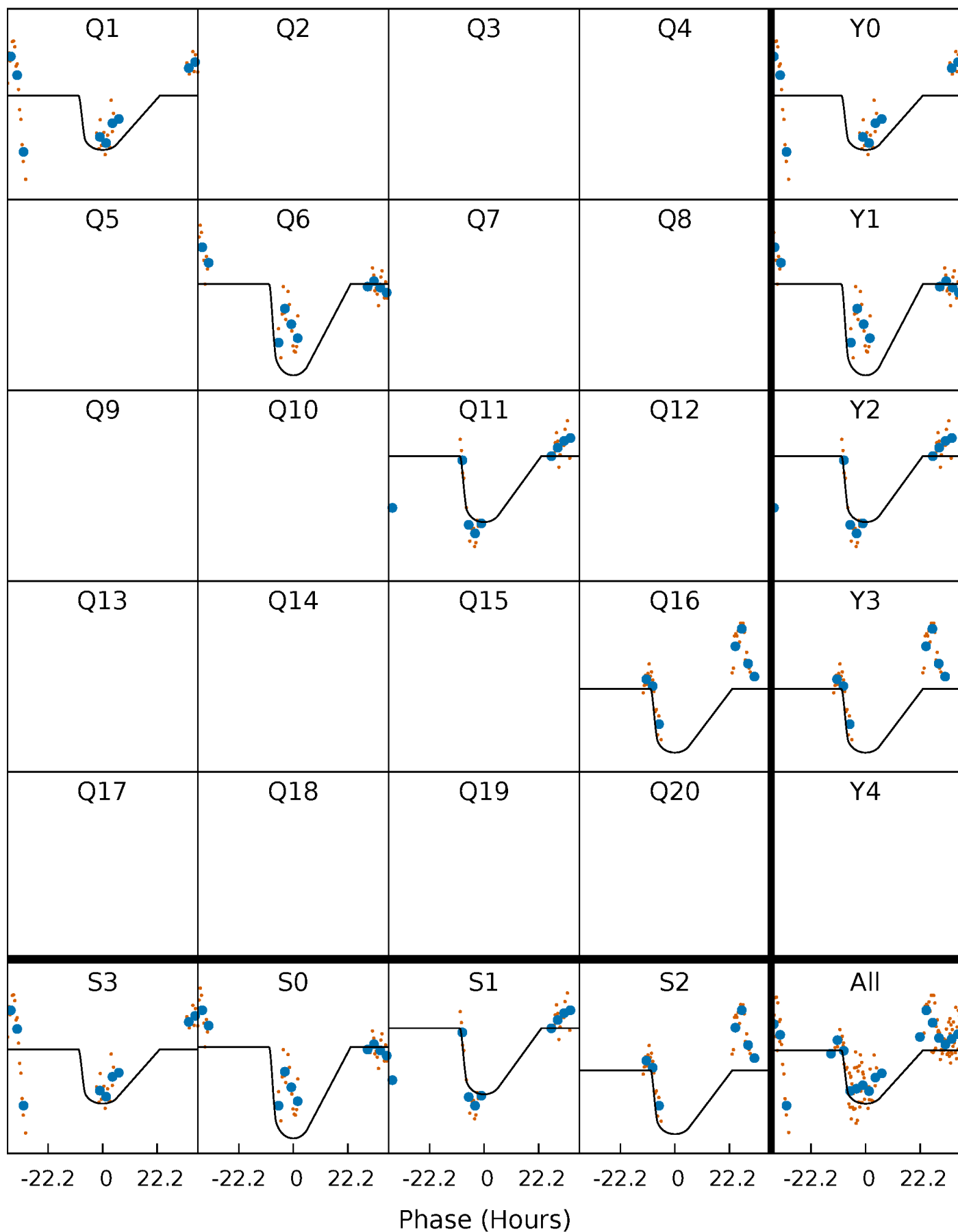
PDC Quarter-Phased Transit Curves

TCE 006962752-02 $P=454.840022$ Days $T_0=149.798932$ (BKJD)



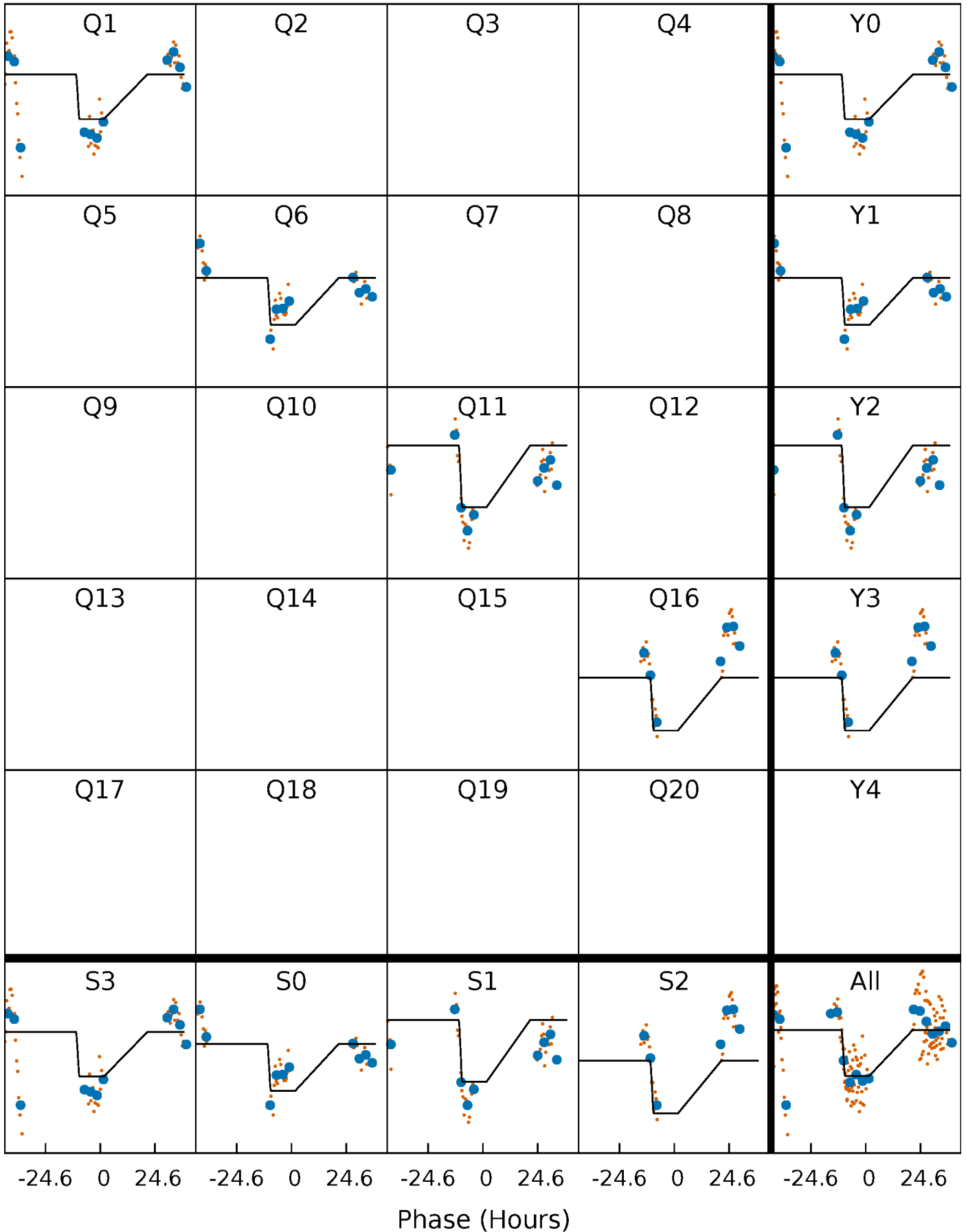
DV Quarter-Phased Transit Curves

TCE 006962752-02 $P=454.840022$ Days $T_0=149.798932$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

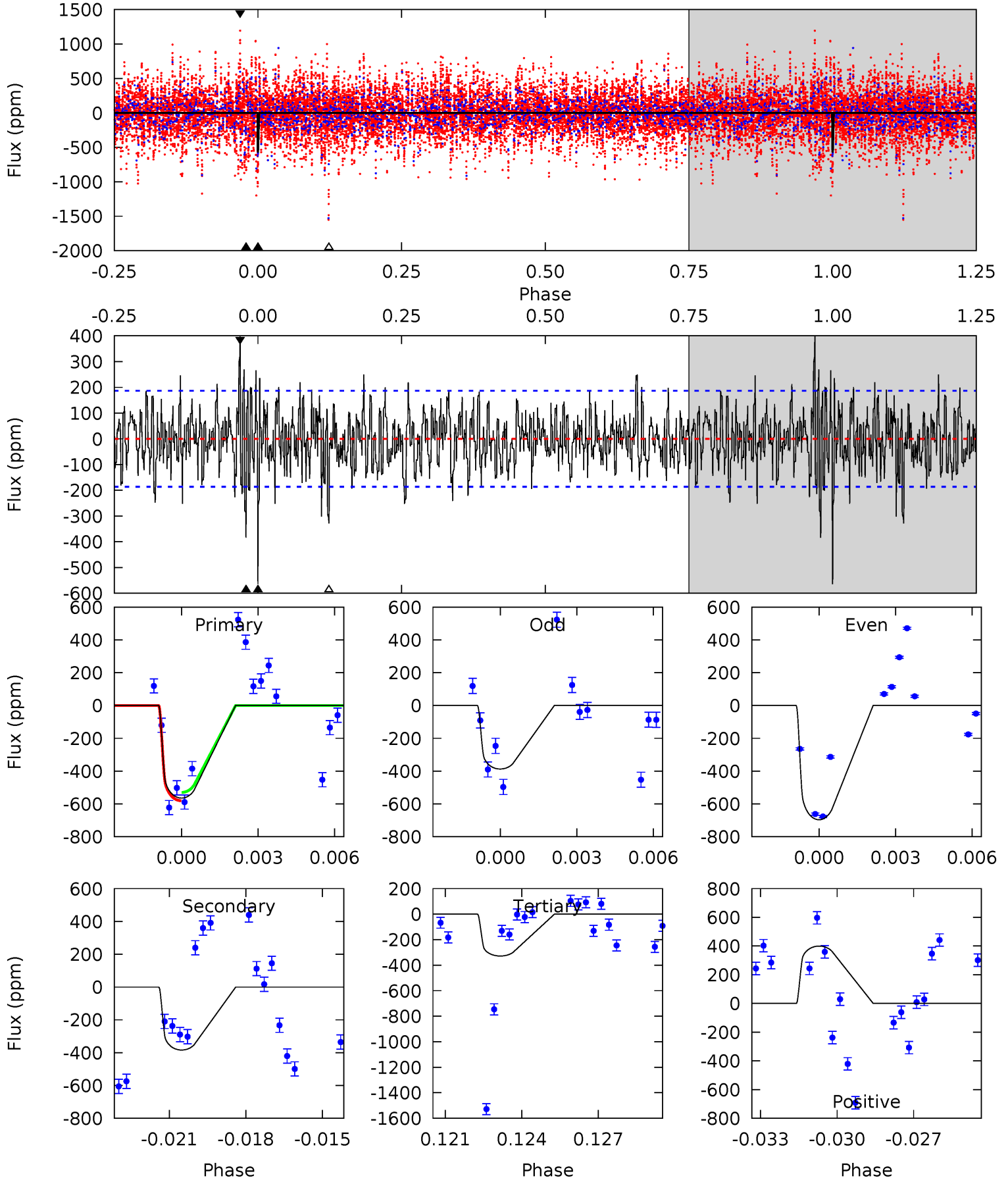
TCE 006962752-02 P=454.816990 Days $T_0=149.957336$ (BKJD)



DV Model-Shift Uniqueness Test

006962752-02, P = 454.840022 Days, E = 149.798932 Days

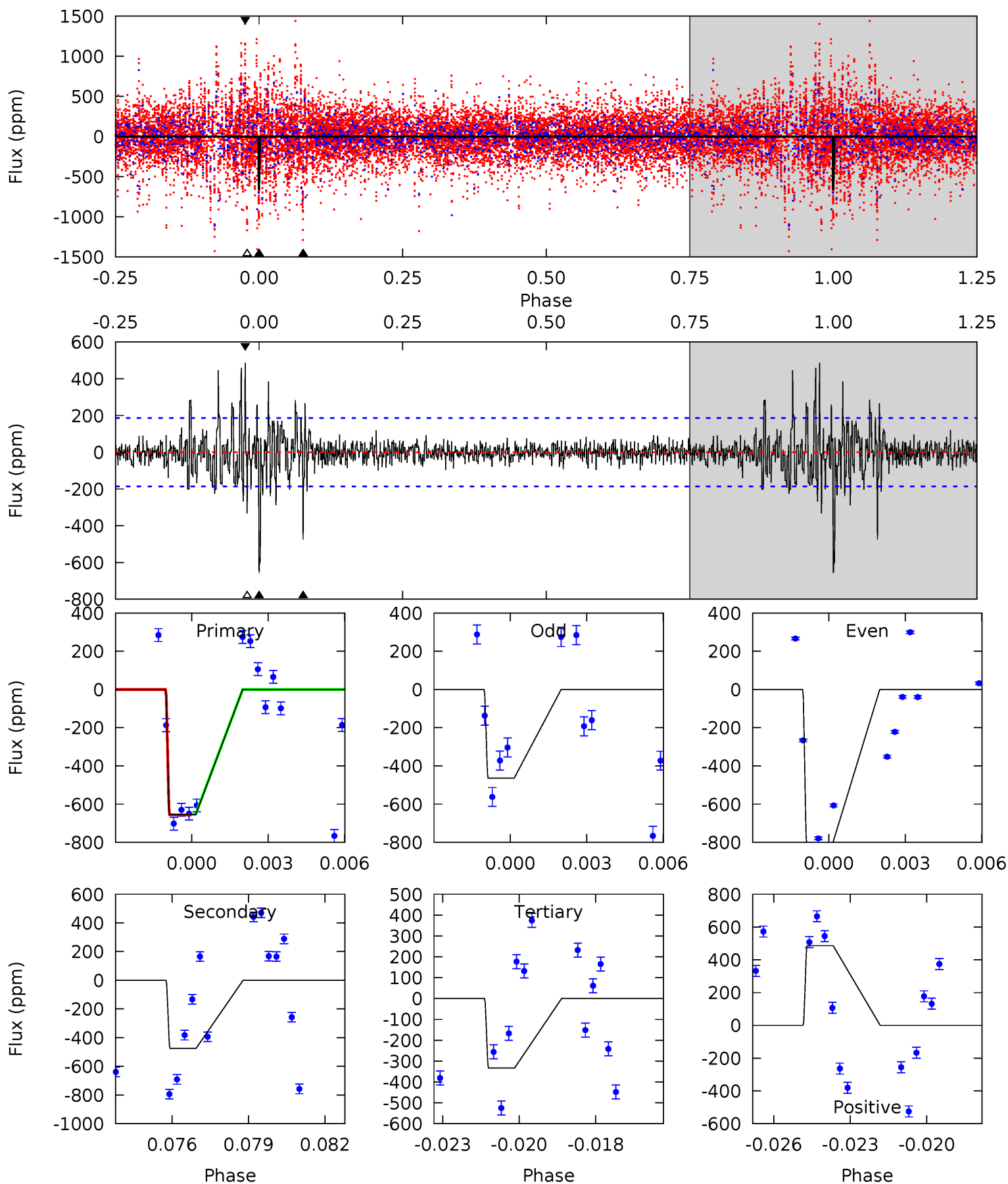
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.9	10.8	9.24	11.2	5.25	2.96	2.53	6.65	4.65	1.56	-0.44	4.35	1.10	0.41	0.64



Alt Model-Shift Uniqueness Test

006962752-02, P = 454.816990 Days, E = 149.957336 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.5	13.4	9.40	13.7	5.26	2.98	2.07	9.11	4.79	3.99	-0.33	4.74	0.99	0.43	0.03



Stellar Parameters For KIC 006962752

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6472^{+176}_{-176}	$3.530^{+0.337}_{-0.112}$	$-0.320^{+0.350}_{-0.300}$	$3.620^{+0.483}_{-1.448}$	$1.621^{+0.212}_{-0.393}$	$0.048^{+0.128}_{-0.017}$
	+3%/-3%	+10%/-3%	+109%/-94%	+13%/-40%	+13%/-24%	+267%/-36%
Source	PHO1	FLK73	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 006962752-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-384 ± 36	$11.39^{+1.75}_{-2.50}$	640^{+37}_{-62}	5304^{+317}_{-273}	3075^{+1744}_{-810}
Alt.	-474 ± 35	$9.48^{+1.75}_{-2.18}$	642^{+38}_{-60}	6050^{+474}_{-366}	5512^{+3217}_{-1682}

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

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

DV Centroid Data

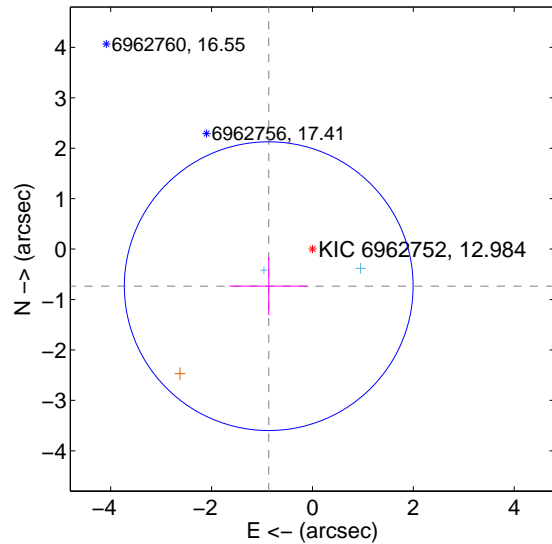
Supplemental centroid analysis for 006962752-02. Kepler magnitude: 12.98. Transit SNR 11.97

There are 2 quarters with good PRF difference image offsets

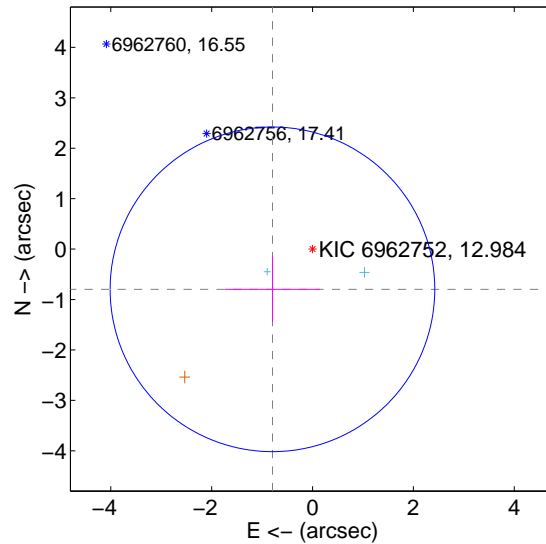
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.136 ± 0.954	1.19	0.867 ± 0.782	-0.735 ± 0.579
PRF-fit source offset from KIC position	1.126 ± 1.073	1.05	0.795 ± 0.943	-0.798 ± 0.648
photometric centroid source offset	0.15 ± 0.17	0.91	0.12 ± 0.17	-0.10 ± 0.16

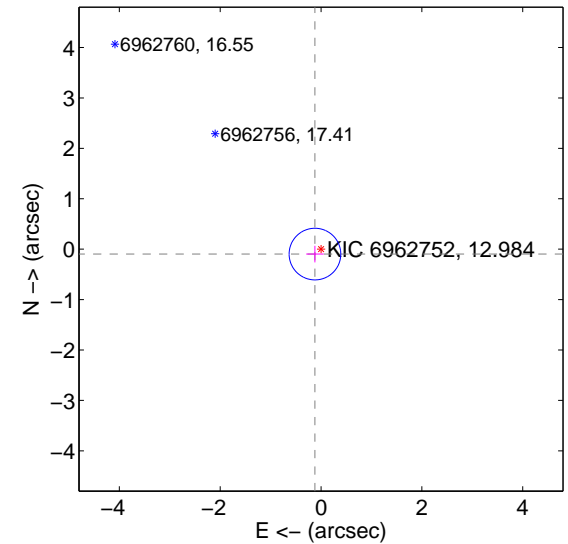
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

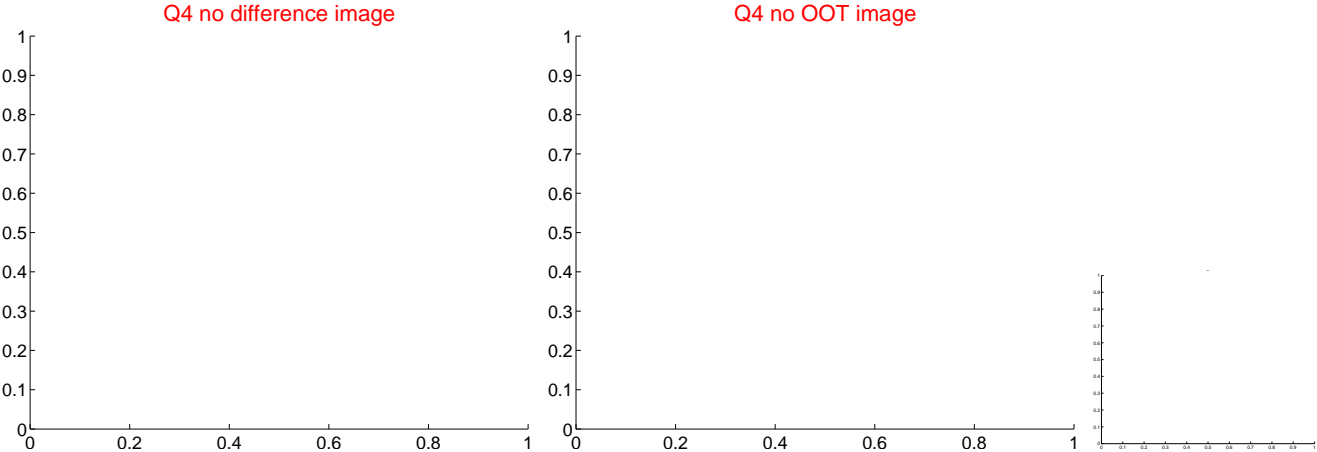
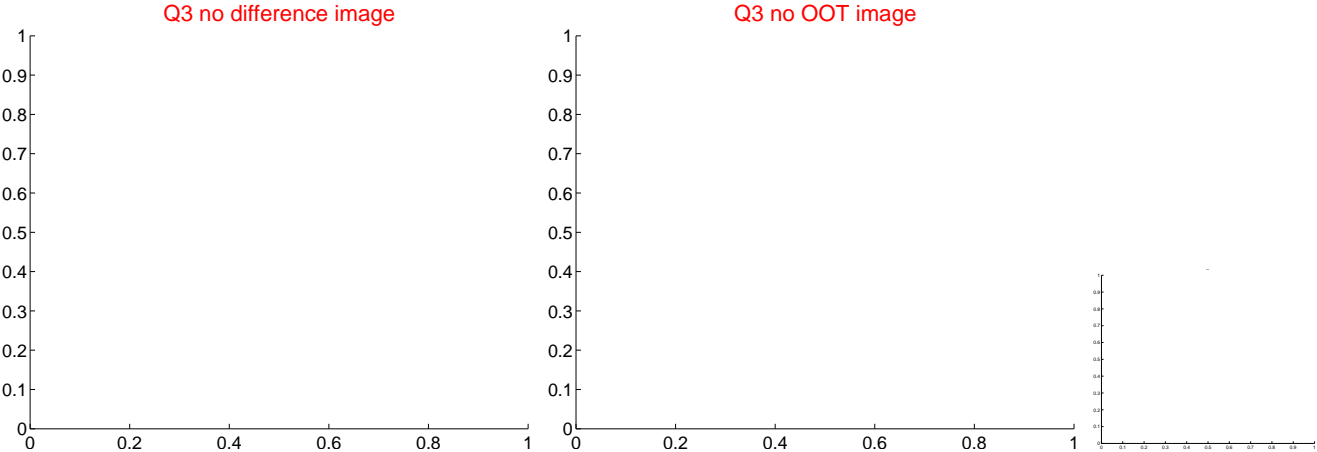
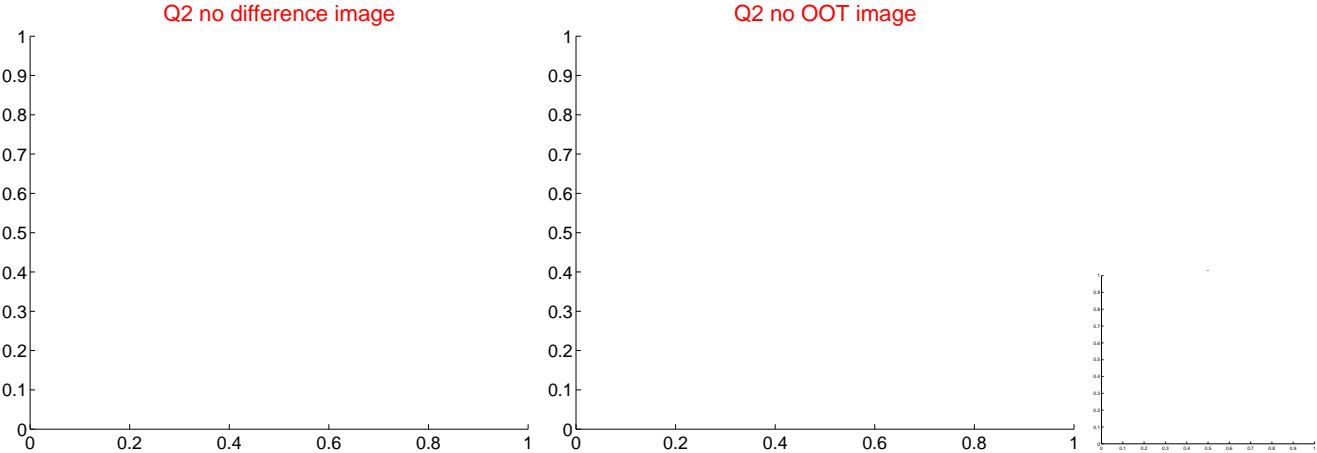
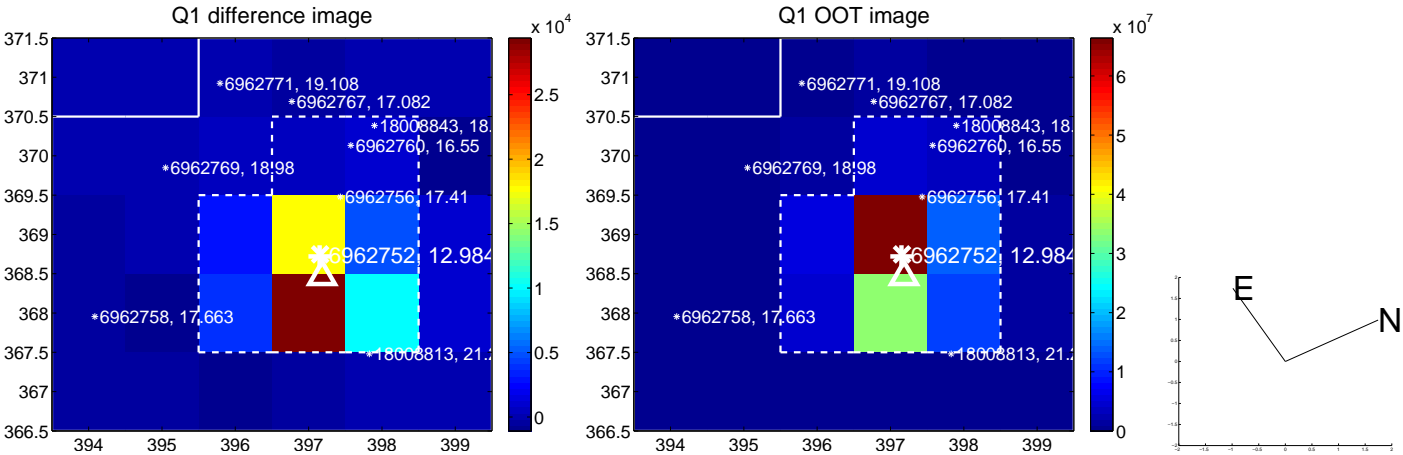


offset from photometric centroids

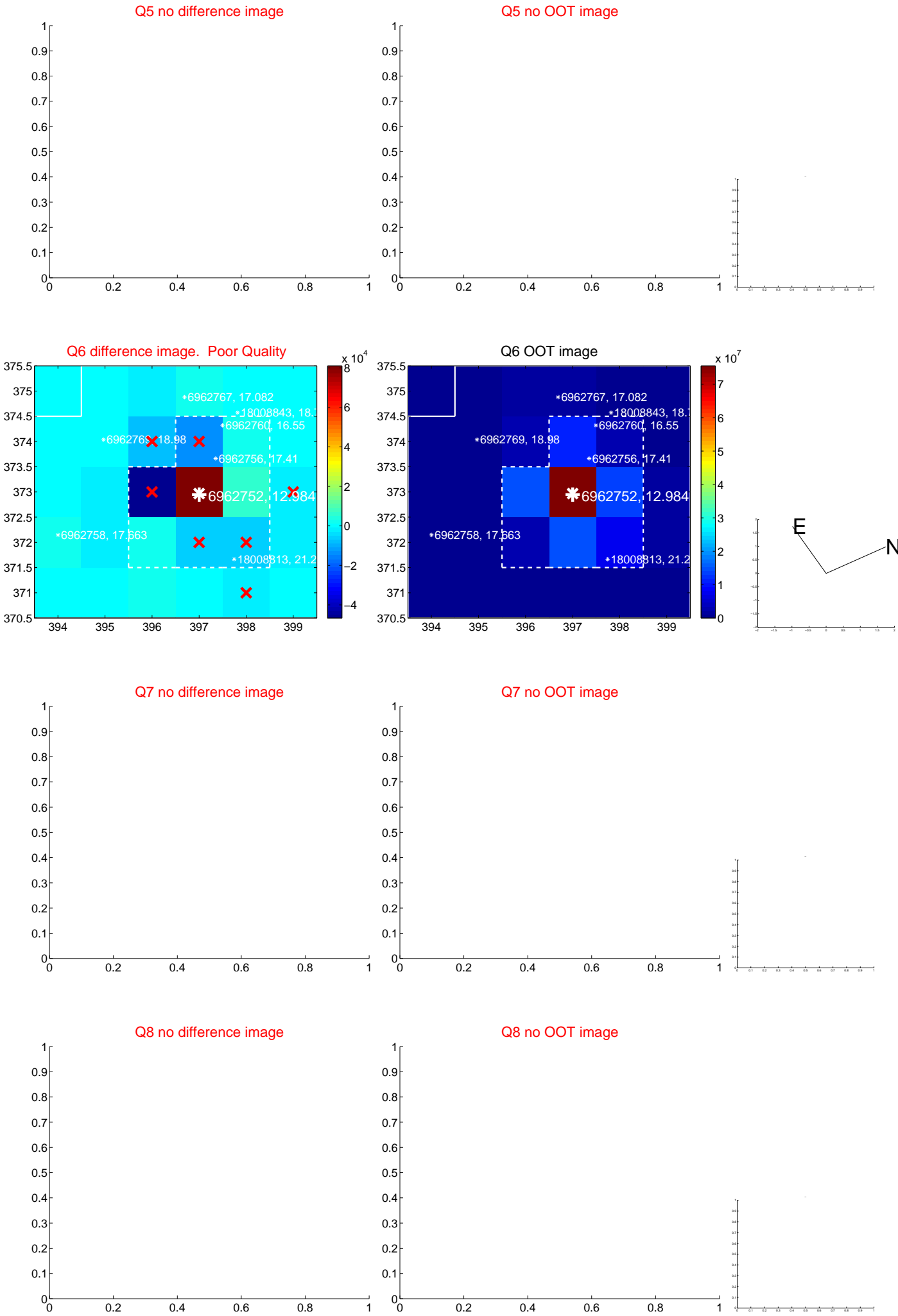


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

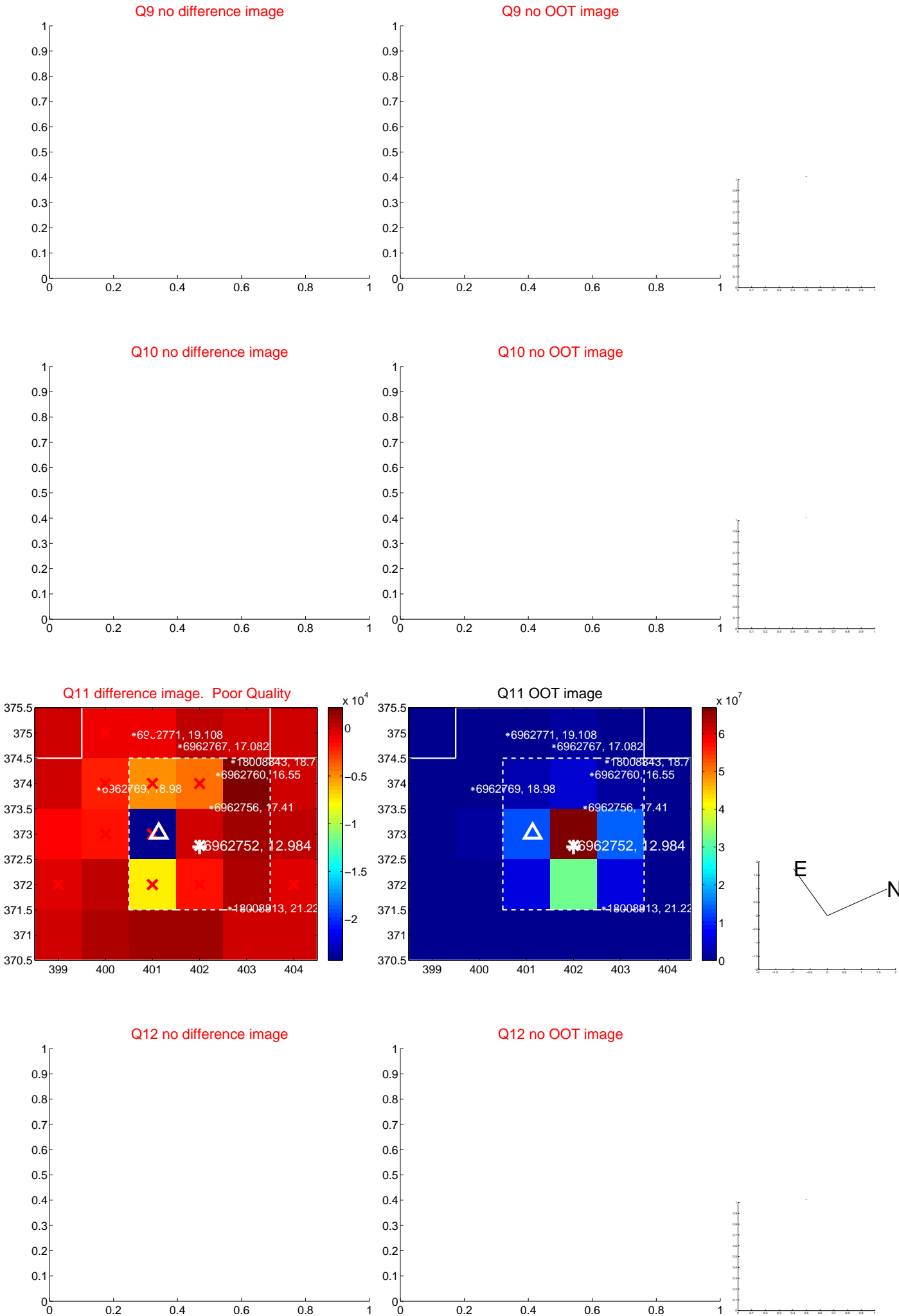
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



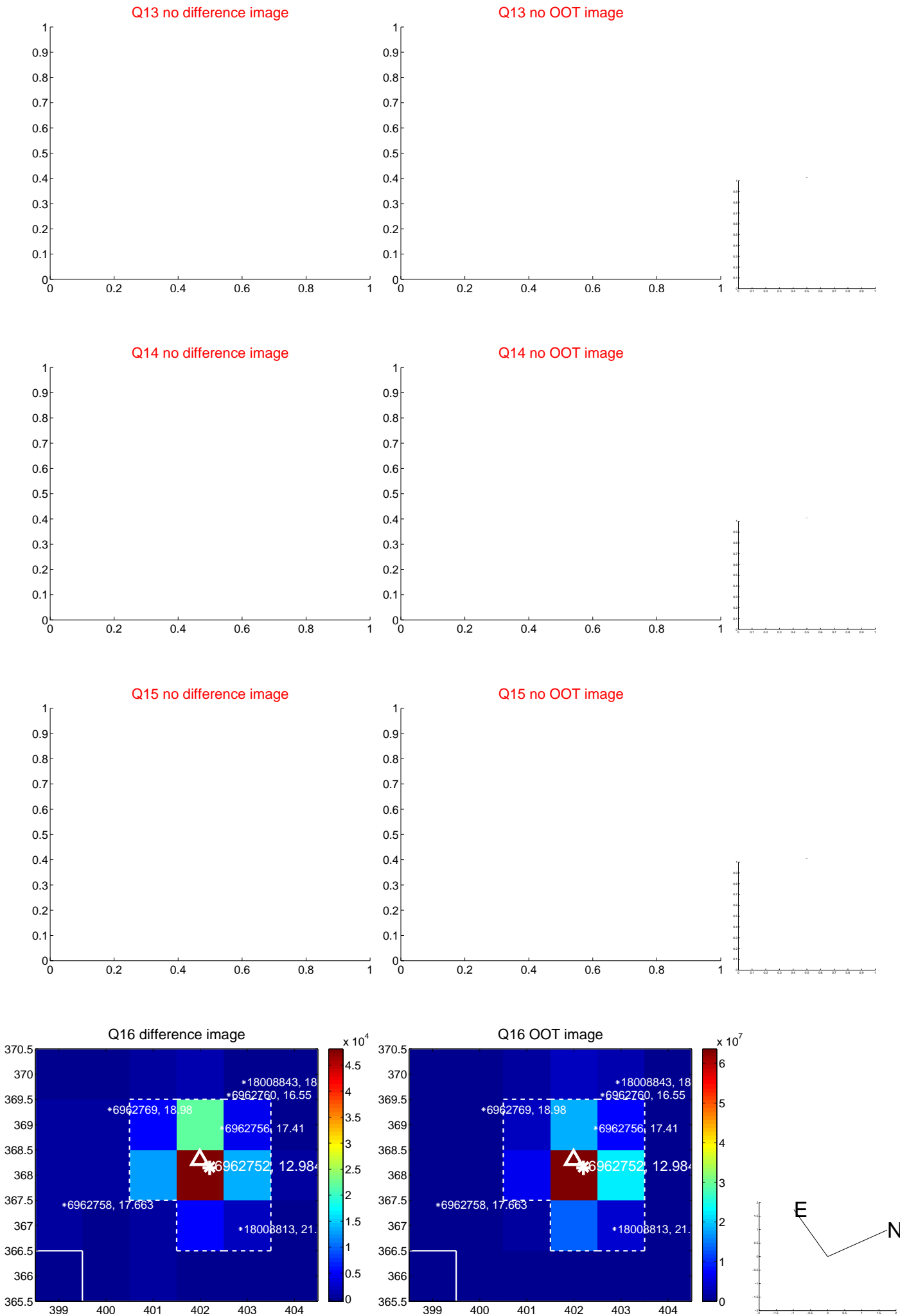
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



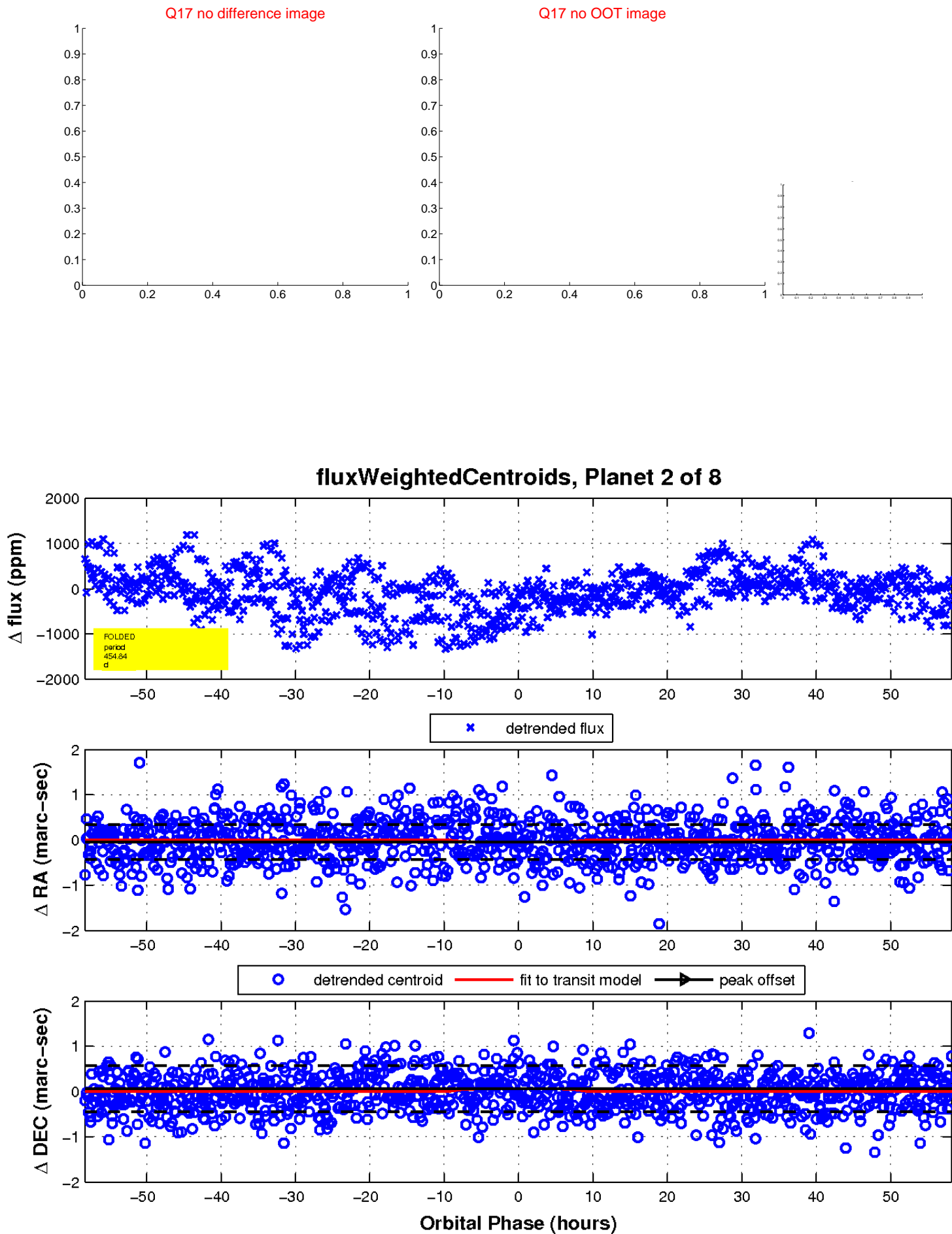
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

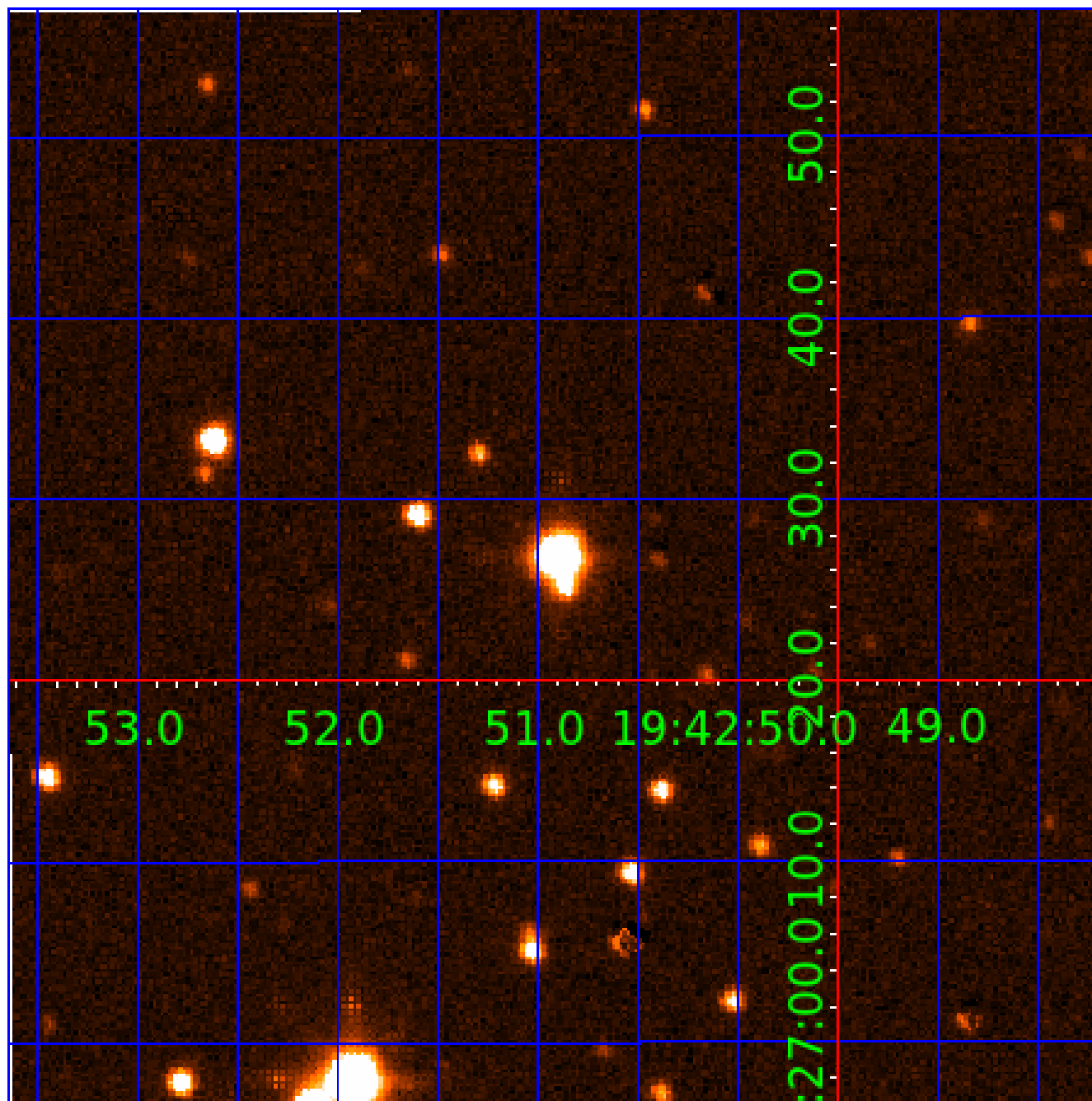


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006962752

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})
006962752-01	OBS	No	1.525805	132.313951	30.6	9.336	8.2	8.2	3.62	6472	2.02	22191.61
006962752-02	OBS	No	454.840022	149.798932	778.5	19.428	12.7	12.0	3.62	6472	11.73	11.14
006962752-03	OBS	No	50.295264	158.002948	453.5	5.008	11.8	10.4	3.62	6472	8.43	209.97
006962752-04	OBS	No	205.071687	266.848324	534.0	6.186	11.8	7.5	3.62	6472	10.28	32.23
006962752-05	OBS	No	35.607277	136.255074	560.2	7.981	11.3	11.0	3.62	6472	16.43	332.76
006962752-06	OBS	No	99.292648	156.578330	405.3	12.137	8.7	9.3	3.62	6472	8.75	84.78
006962752-07	OBS	No	57.279682	184.351622	307.5	14.332	9.0	7.6	3.62	6472	8.34	176.54

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006962752-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006962752-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006962752-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT

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

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

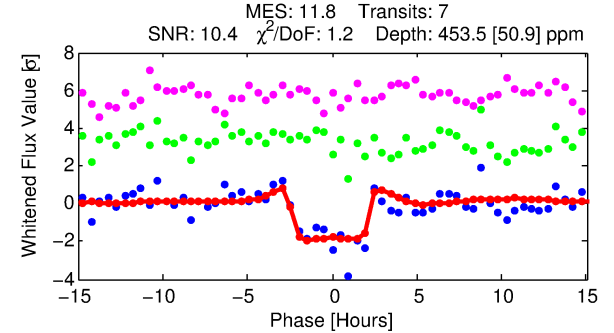
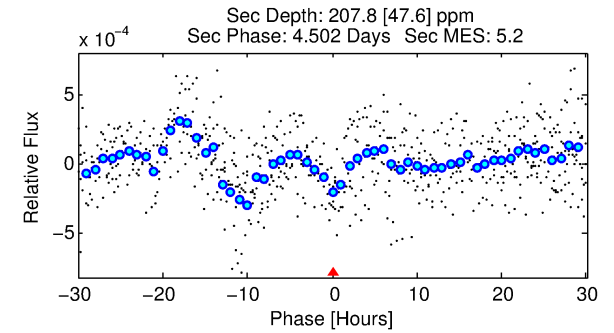
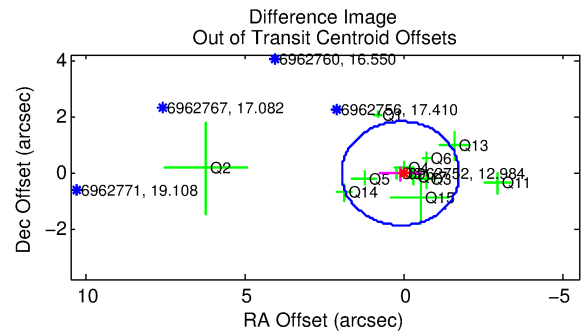
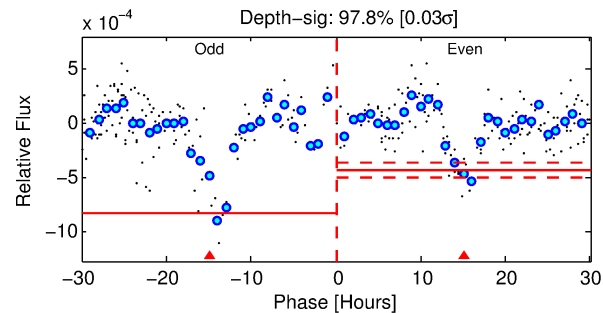
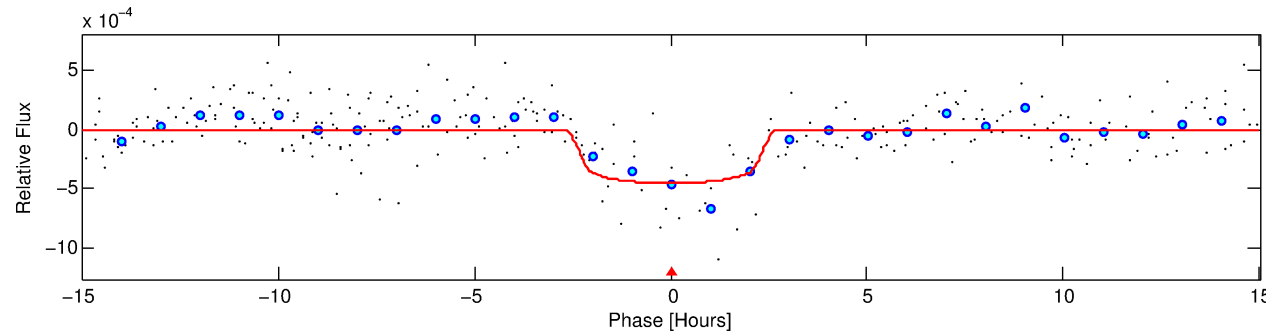
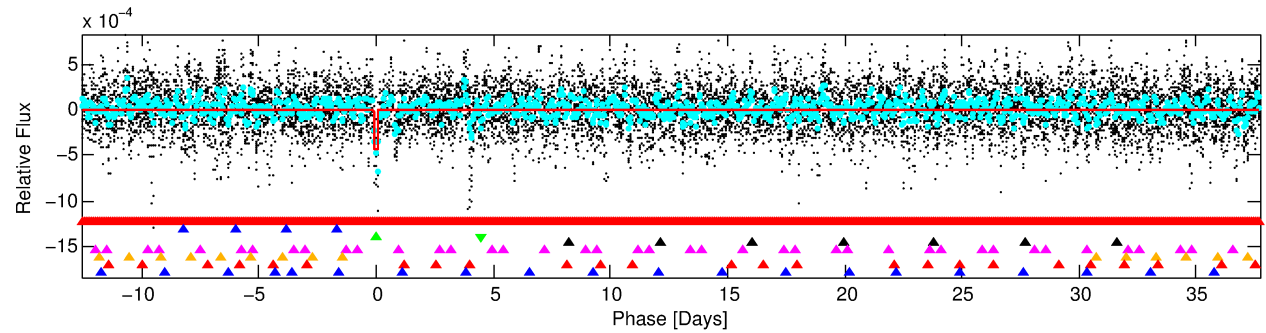
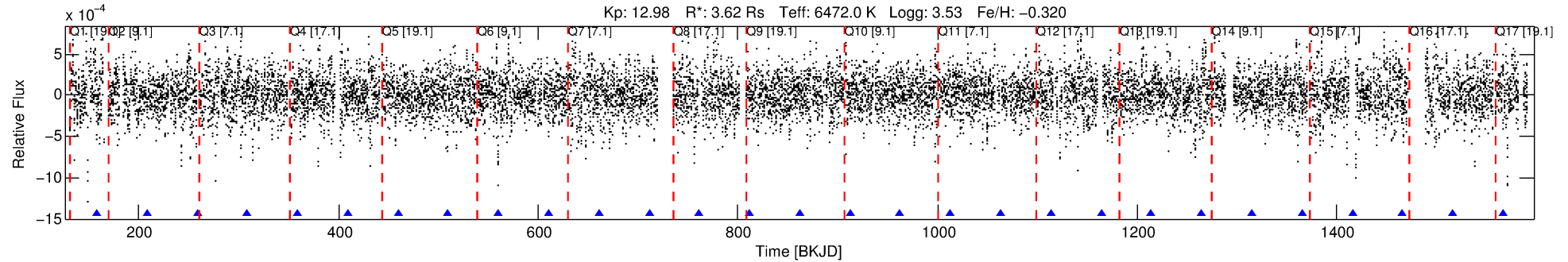
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006962752-03

No Significant Match Found

DV One-Page Summary

KIC: 6962752 Candidate: 3 of 8 Period: 50.295 d



DV Fit Results:

Period = 50.29526 [0.00193] d
Epoch = 158.0029 [0.0172] BKJD
Rp/R* = 0.0214 [0.0082]
a/R* = 51.13 [106.86]
b = 0.77 [1.10]
Seff = 209.97 [124.32]
Teq = 971 [144] K
Rp = 8.43 [4.68] Re
a = 0.3132 [0.1164] AU
Ag = 157.69 [156.27] [1.00 σ]
Teffp = 5318 [1076] K [4.00 σ]

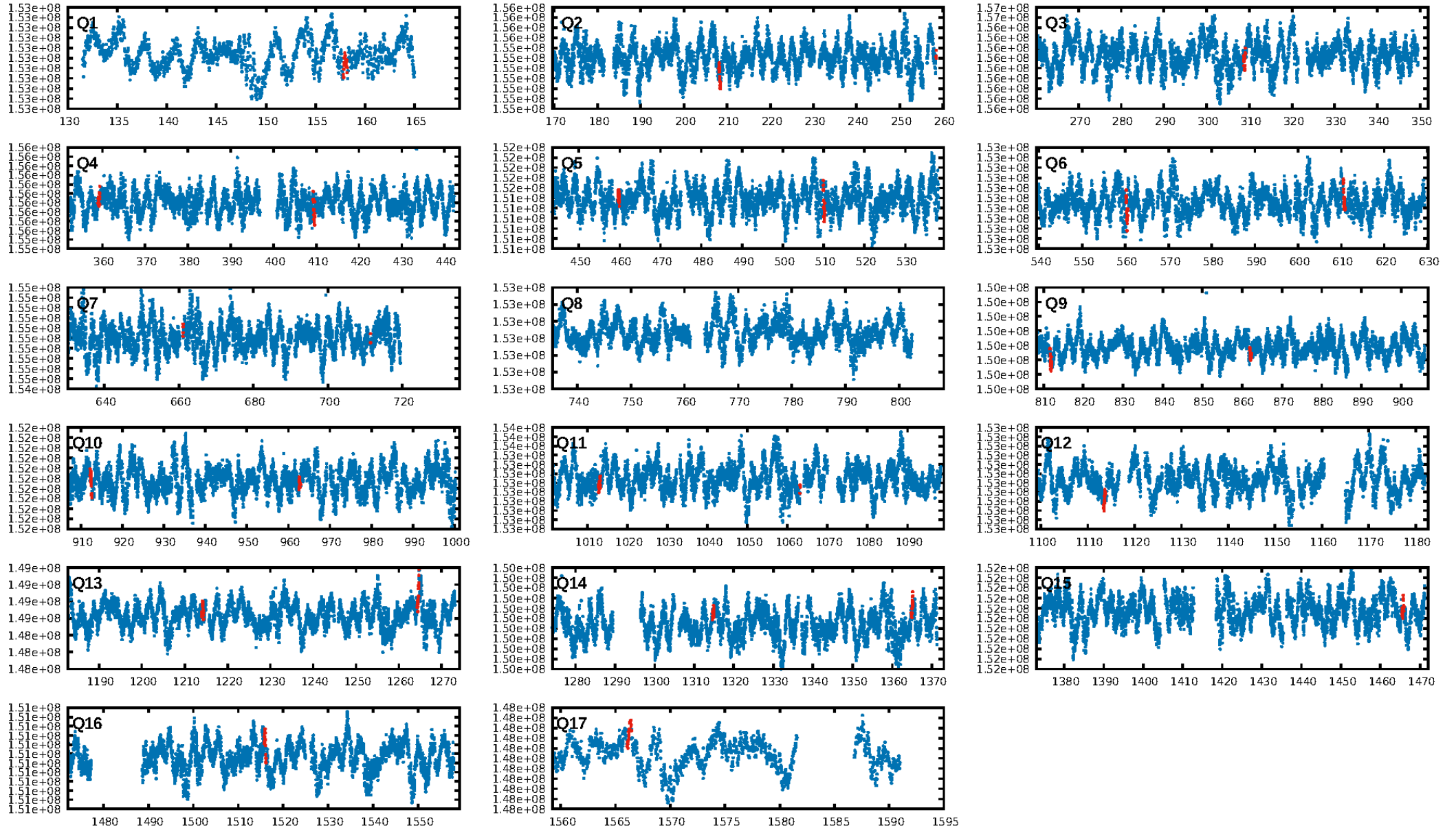
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [37.41 σ]
LongPeriod-sig: 100.0% [11.04 σ]
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: 1.33
Centroid-sig: 8.1%
Centroid-so: 0.334 arcsec [1.55 σ]
OotOffset-rm: 0.118 arcsec [0.19 σ]
KicOffset-rm: 0.068 arcsec [0.15 σ]
OotOffset-st: 3/3/1/5 [12]
KicOffset-st: 3/3/1/5 [12]
DiffImageQuality-fgm: 0.42 [5/12]
DiffImageOverlap-fno: 0.07 [1/14]

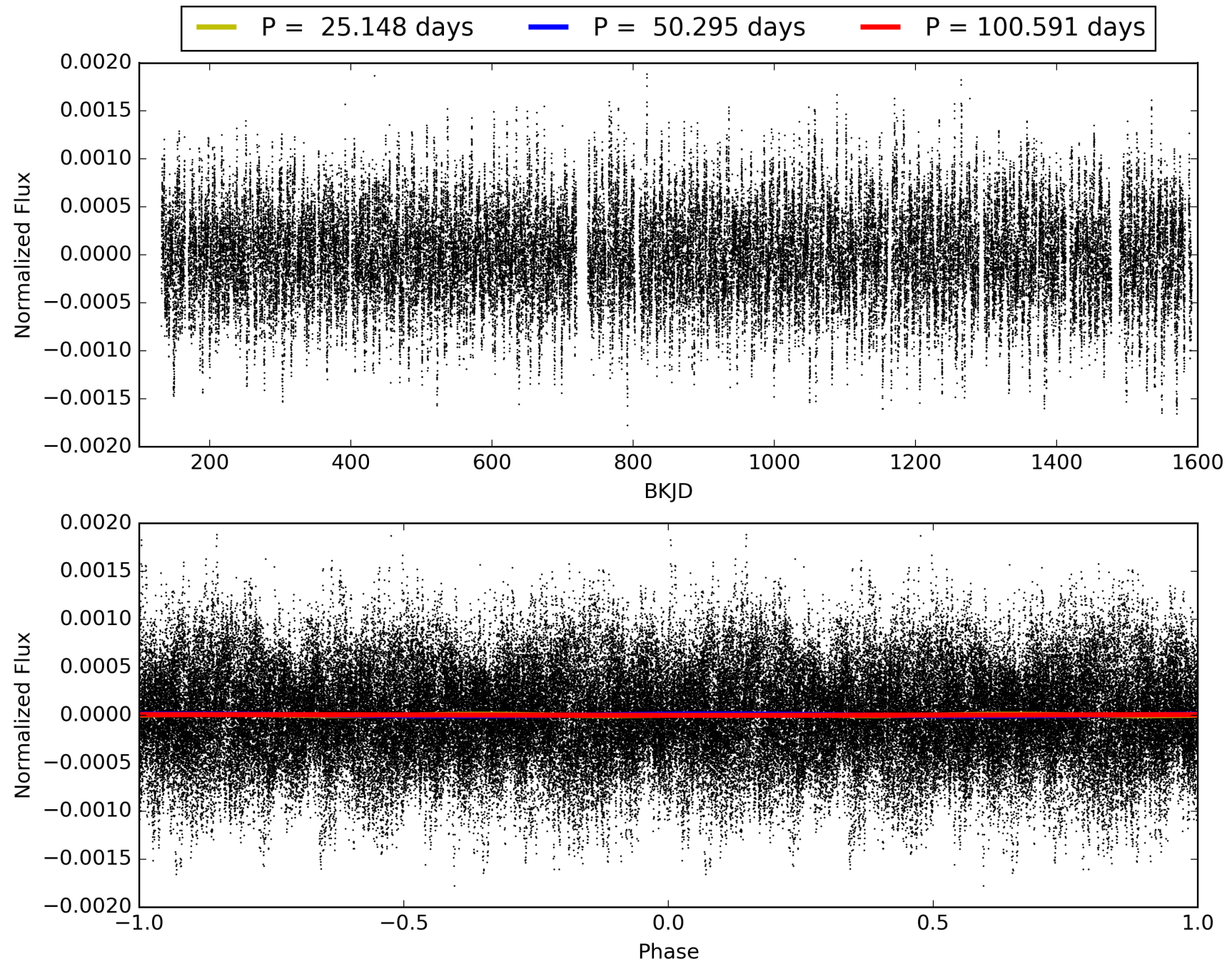
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 08:18:43 Z

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

TCE 006962752-03, PDC Light Curves

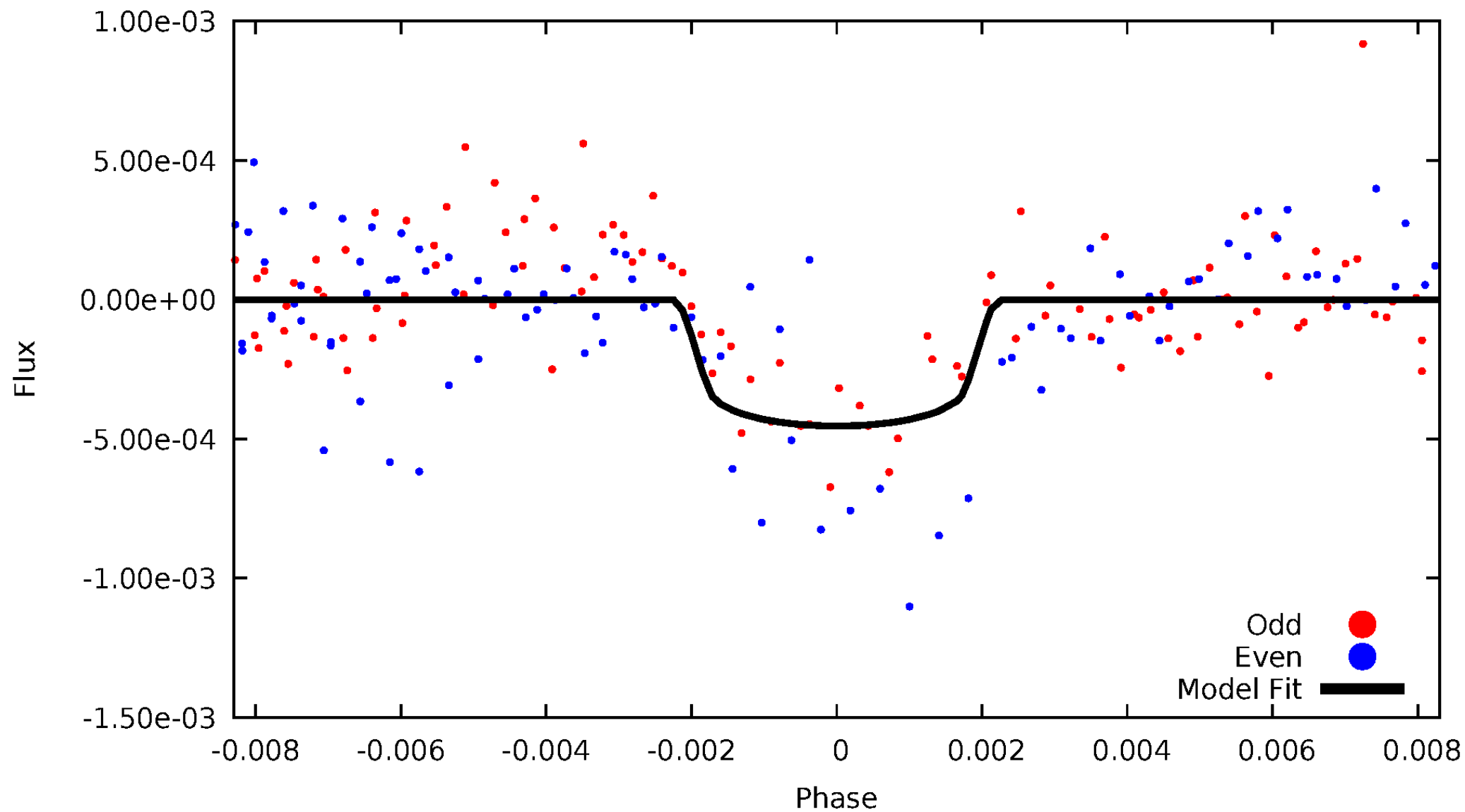


TCE 006962752-03



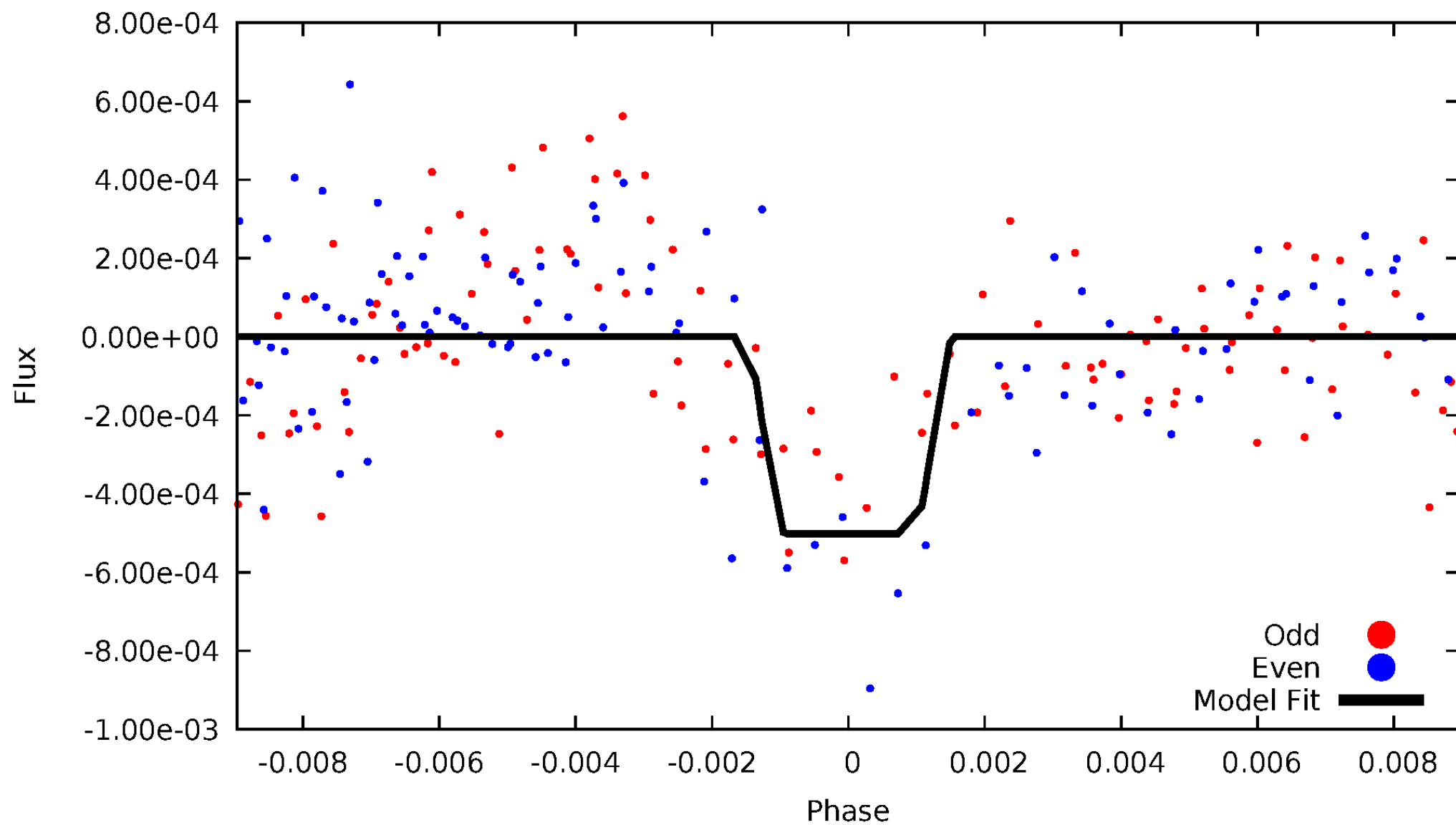
DV Odd/Even

TCE 006962752-03



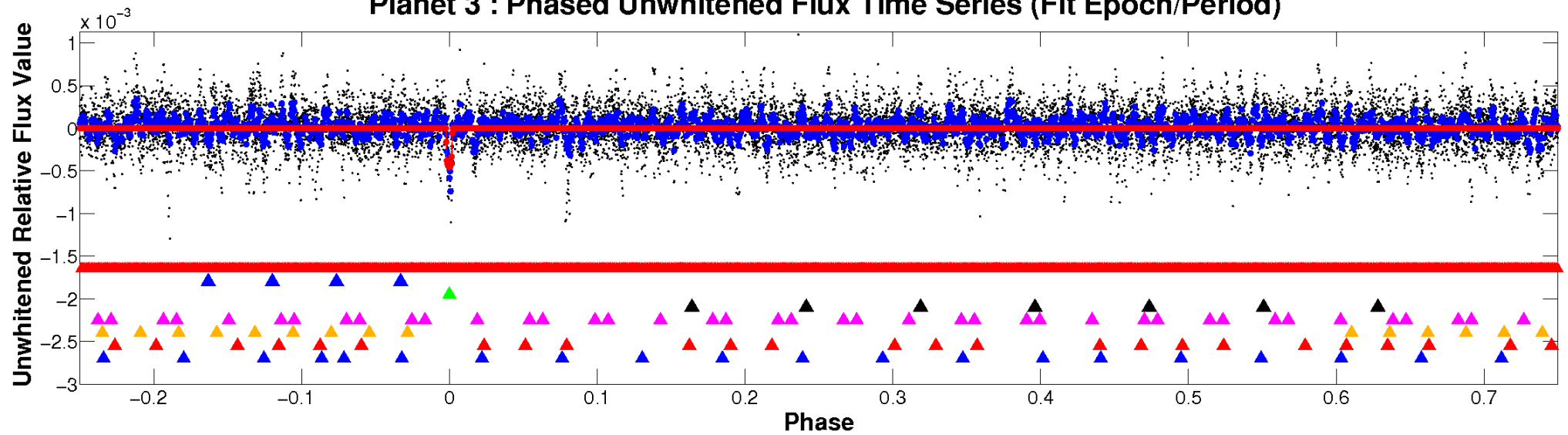
ALT Odd/Even

TCE 006962752-03

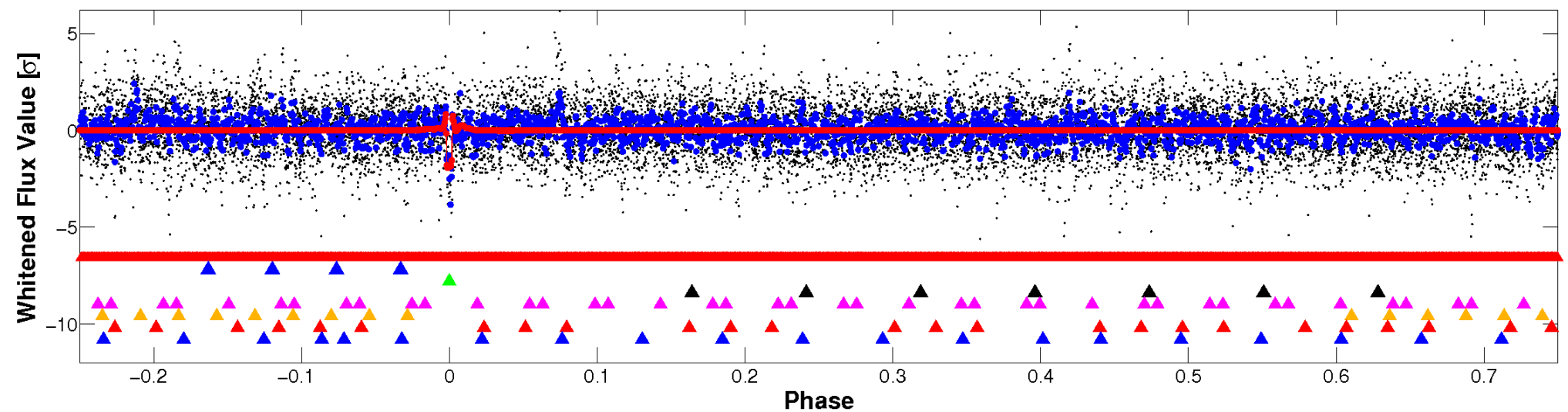


Non-Whitened Vs. Whitened Light Curve

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

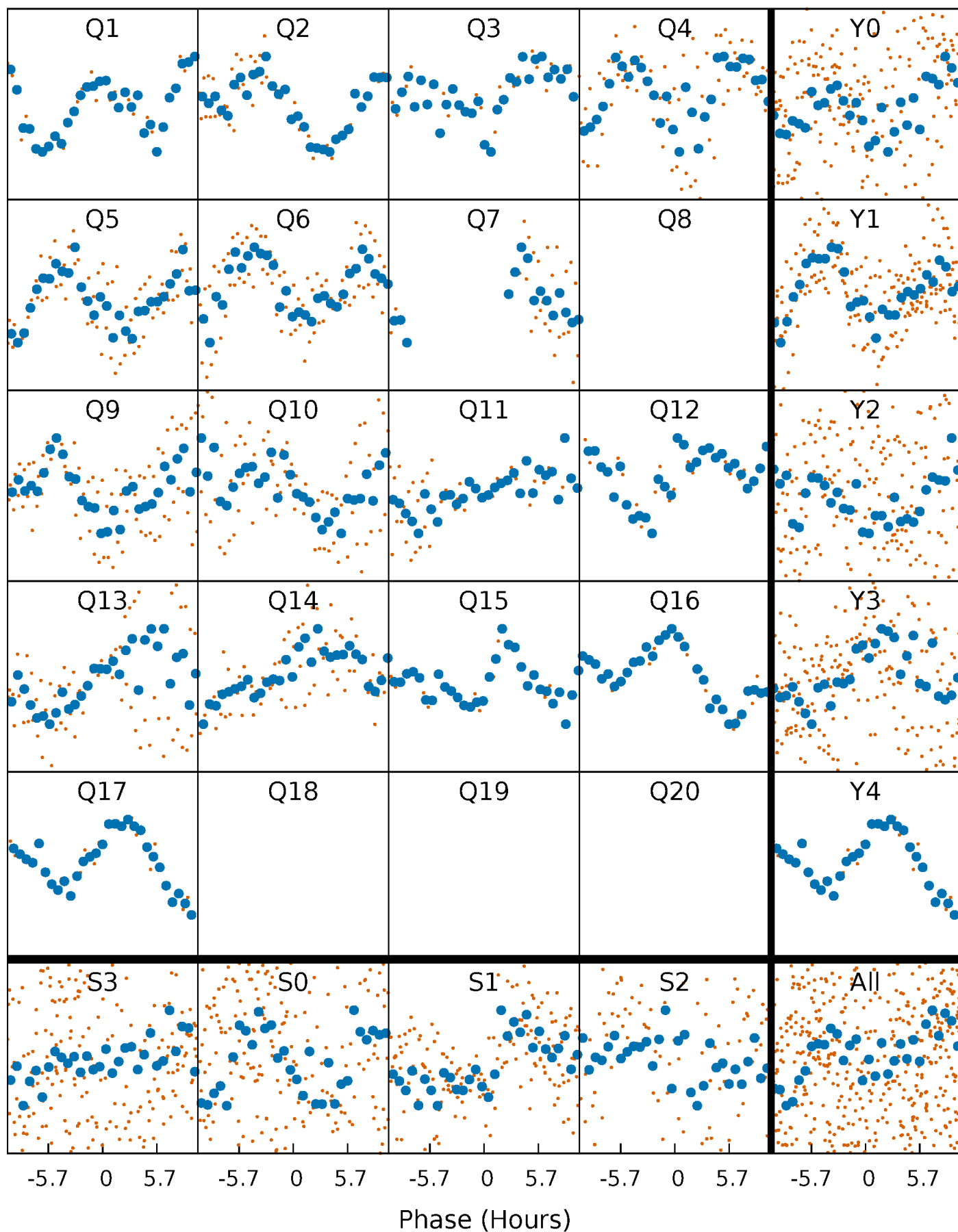


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



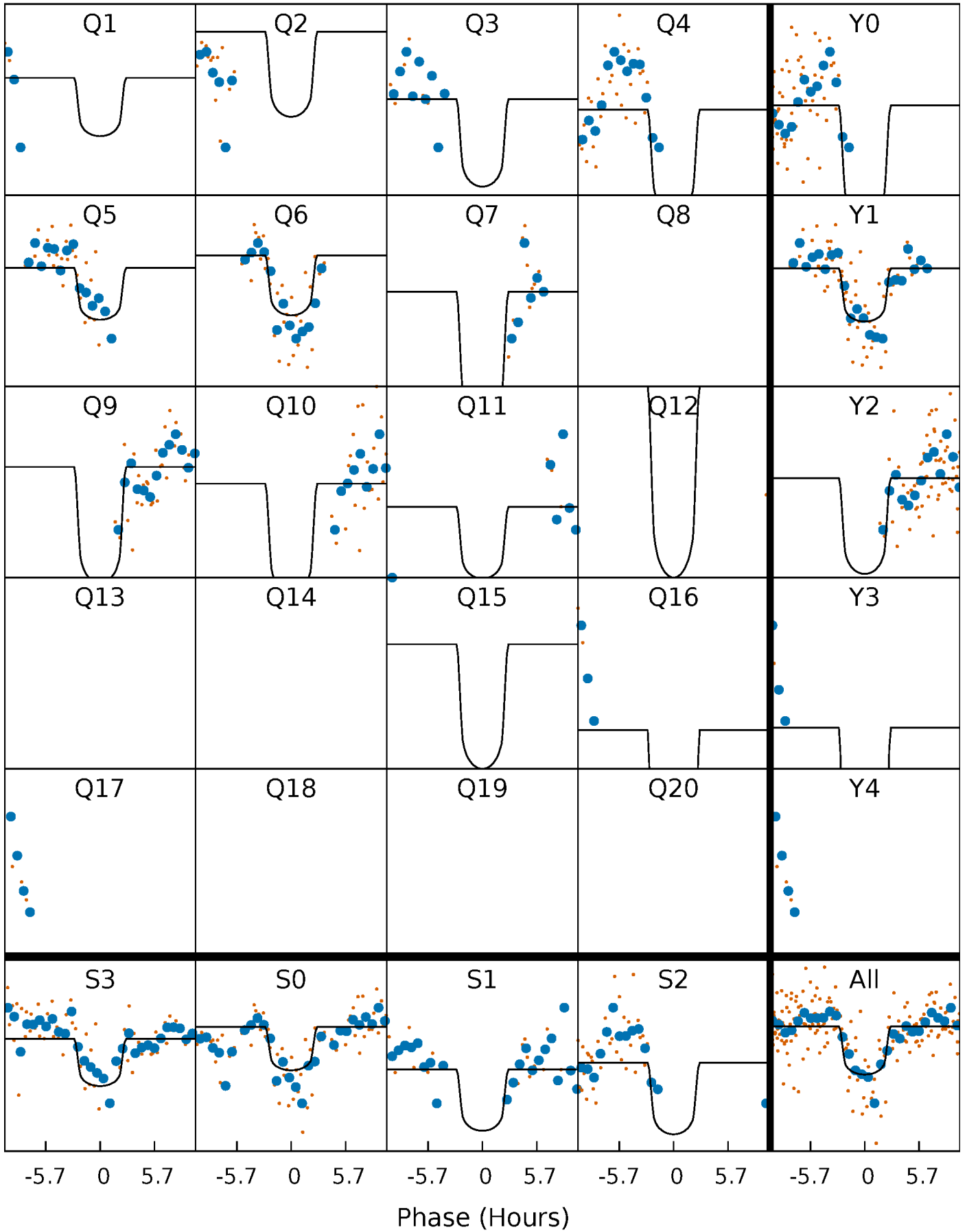
PDC Quarter-Phased Transit Curves

TCE 006962752-03 $P = 50.295264$ Days $T_0 = 158.002948$ (BKJD)



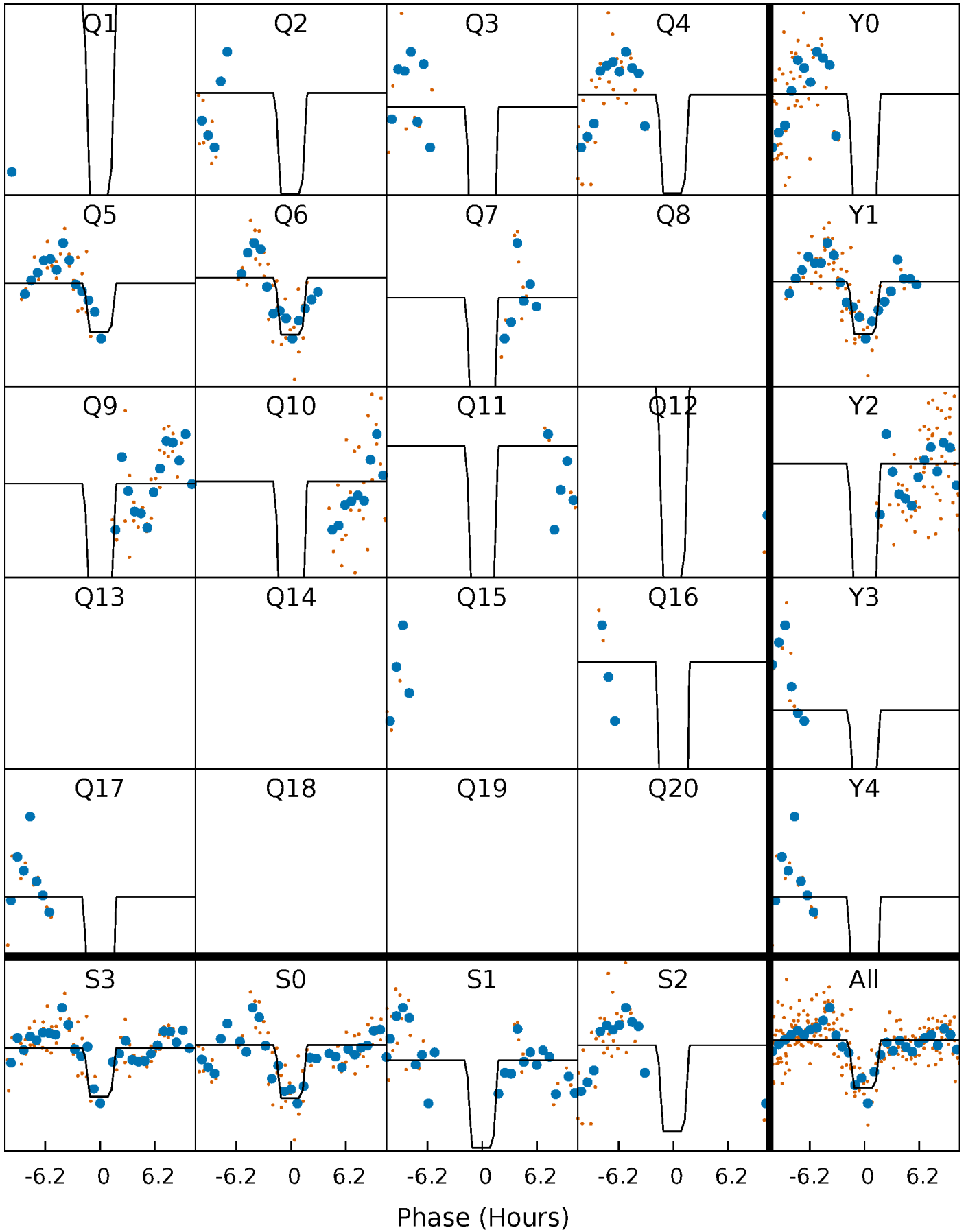
DV Quarter-Phased Transit Curves

TCE 006962752-03 P= 50.295264 Days $T_0=158.002948$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

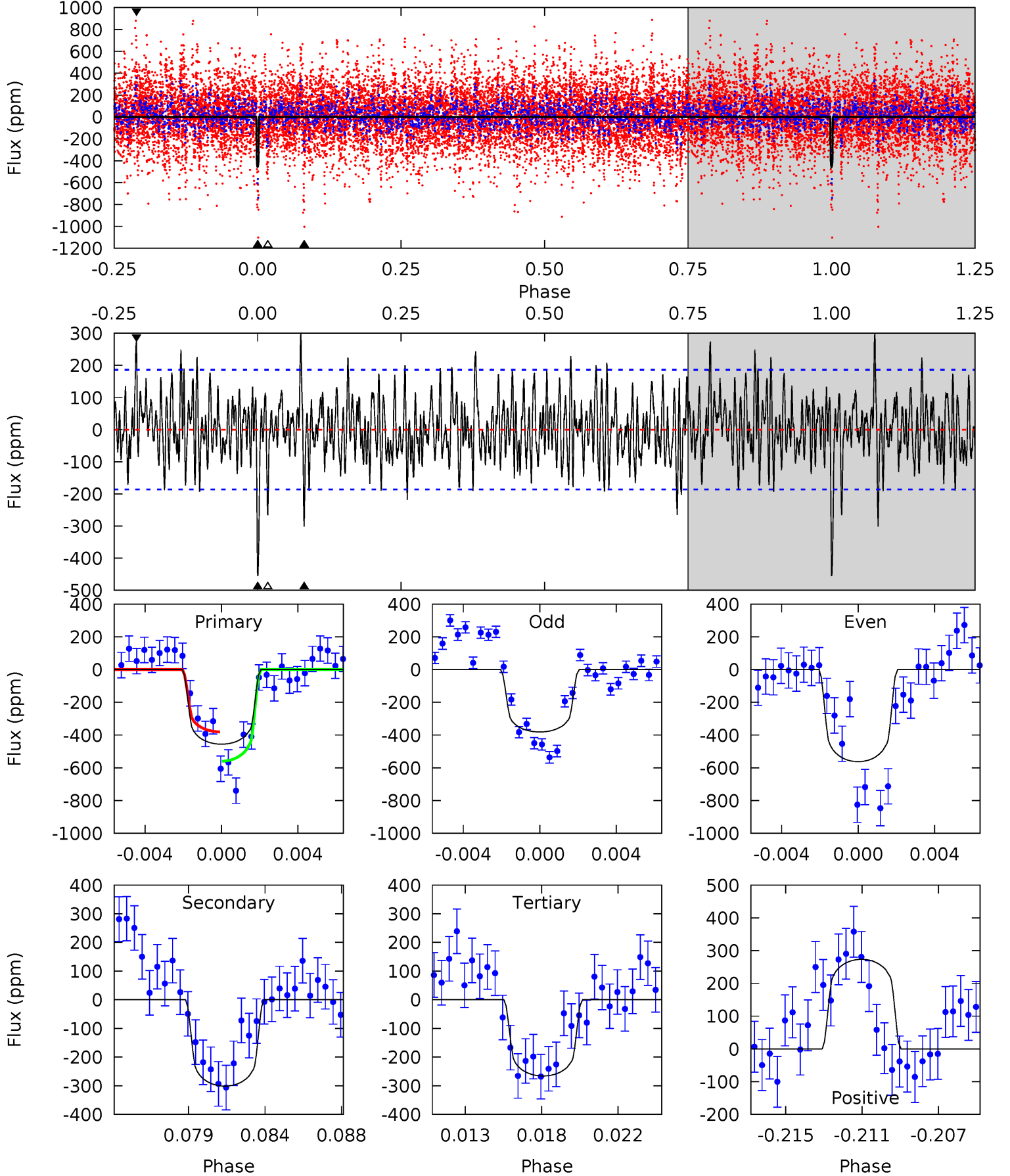
TCE 006962752-03 P= 50.290020 Days $T_0=158.079087$ (BKJD)



DV Model-Shift Uniqueness Test

006962752-03, P = 50.295264 Days, E = 107.707684 Days

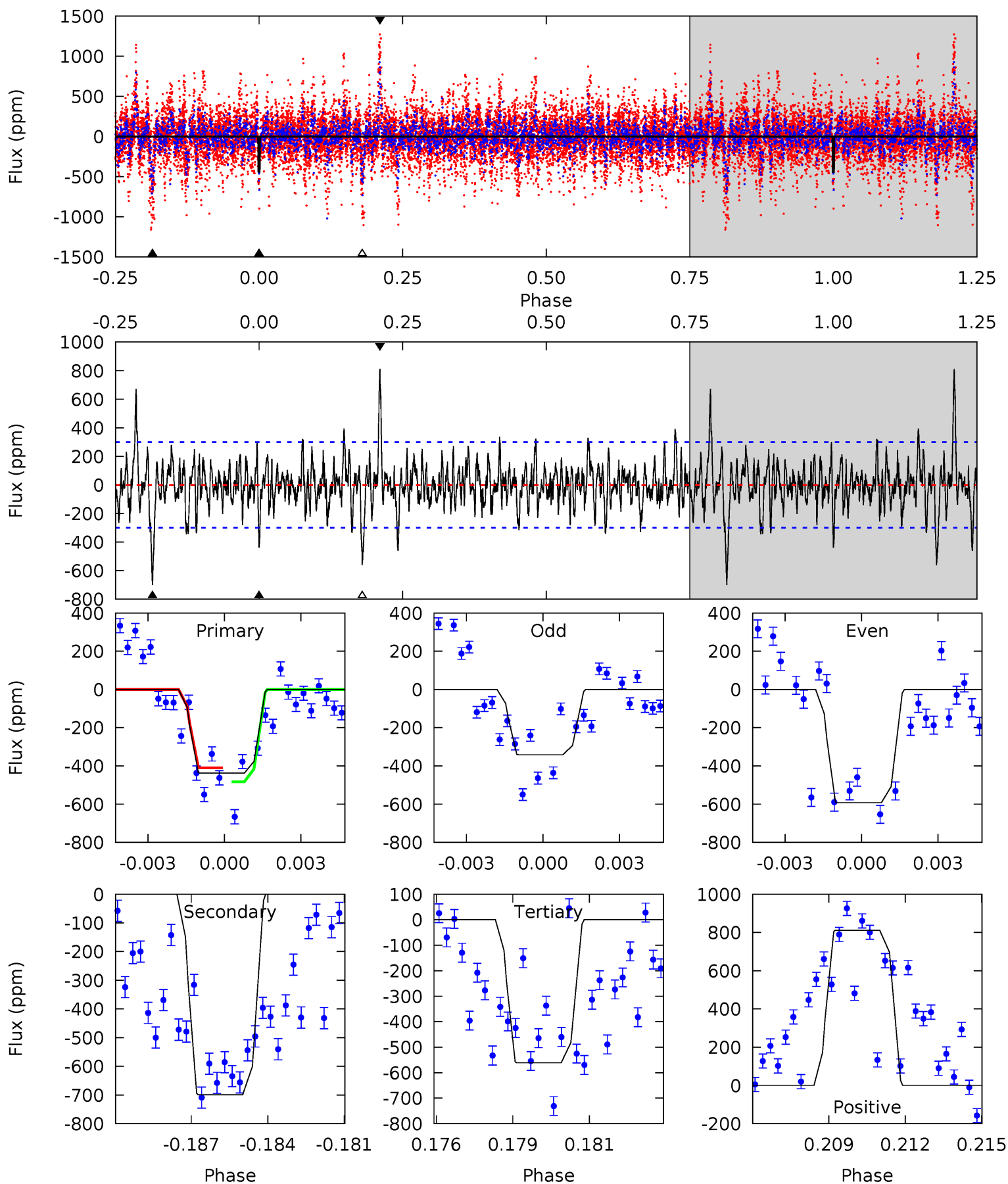
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.7	8.40	7.41	7.62	5.18	2.85	2.33	5.29	5.08	0.99	0.78	2.46	1.17	0.40	2.46



Alt Model-Shift Uniqueness Test

006962752-03, P = 50.290020 Days, E = 107.789067 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.70	12.3	9.86	14.3	5.27	2.99	2.28	-2.17	-6.56	2.43	-1.97	2.15	0.96	0.54	0.63



Stellar Parameters For KIC 006962752

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6472^{+176}_{-176}	$3.530^{+0.337}_{-0.112}$	$-0.320^{+0.350}_{-0.300}$	$3.620^{+0.483}_{-1.448}$	$1.621^{+0.212}_{-0.393}$	$0.048^{+0.128}_{-0.017}$
	+3%/-3%	+10%/-3%	+109%/-94%	+13%/-40%	+13%/-24%	+267%/-36%
Source	PHO1	FLK73	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 006962752-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-301 ± 36	$7.86^{+3.50}_{-3.12}$	1341^{+71}_{-132}	5842^{+1653}_{-820}	251^{+474}_{-126}
Alt.	-699 ± 57	$8.24^{+3.74}_{-3.12}$	1339^{+80}_{-124}	7066^{+2366}_{-1109}	549^{+878}_{-281}

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

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

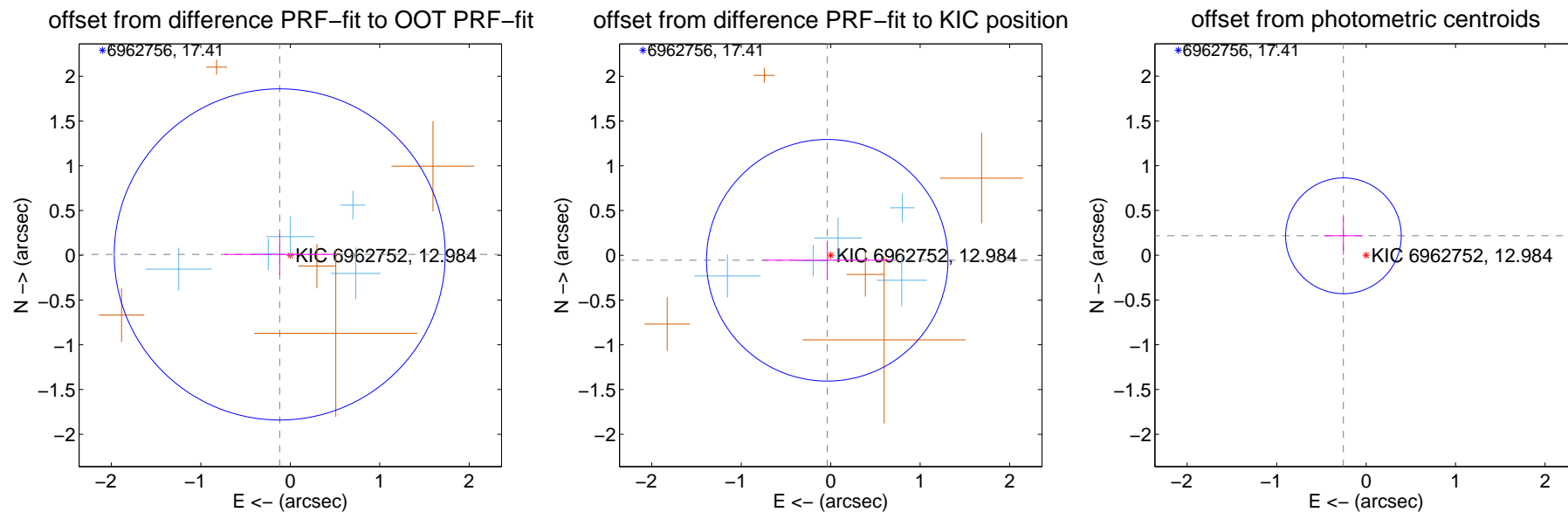
DV Centroid Data

Supplemental centroid analysis for 006962752-03. Kepler magnitude: 12.98. Transit SNR 10.39

There are 5 quarters with good PRF difference image offsets

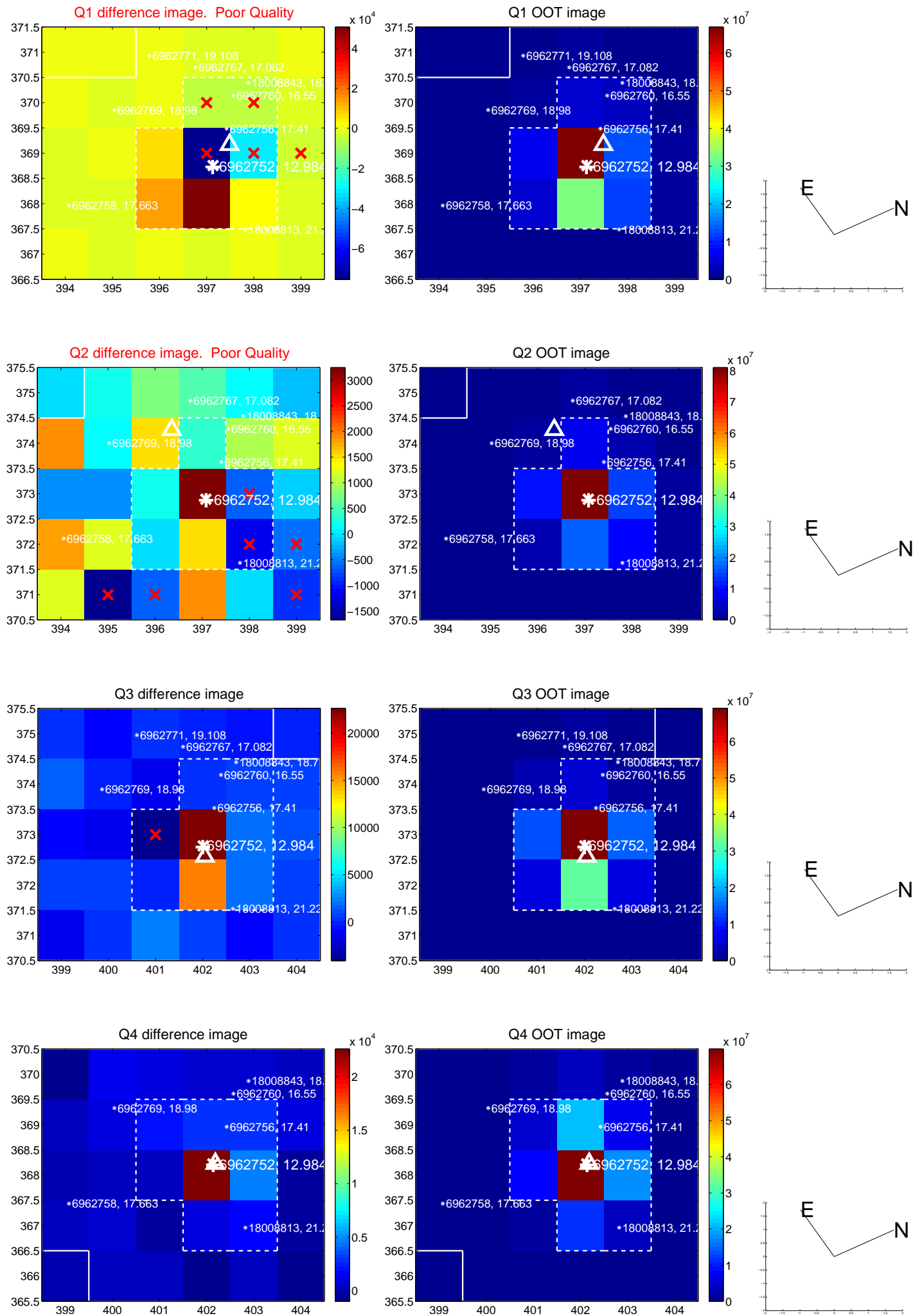
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.118 ± 0.617	0.19	0.118 ± 0.619	0.009 ± 0.233
PRF-fit source offset from KIC position	0.068 ± 0.450	0.15	0.039 ± 0.718	-0.056 ± 0.220
photometric centroid source offset	0.33 ± 0.22	1.55	0.25 ± 0.22	0.22 ± 0.21

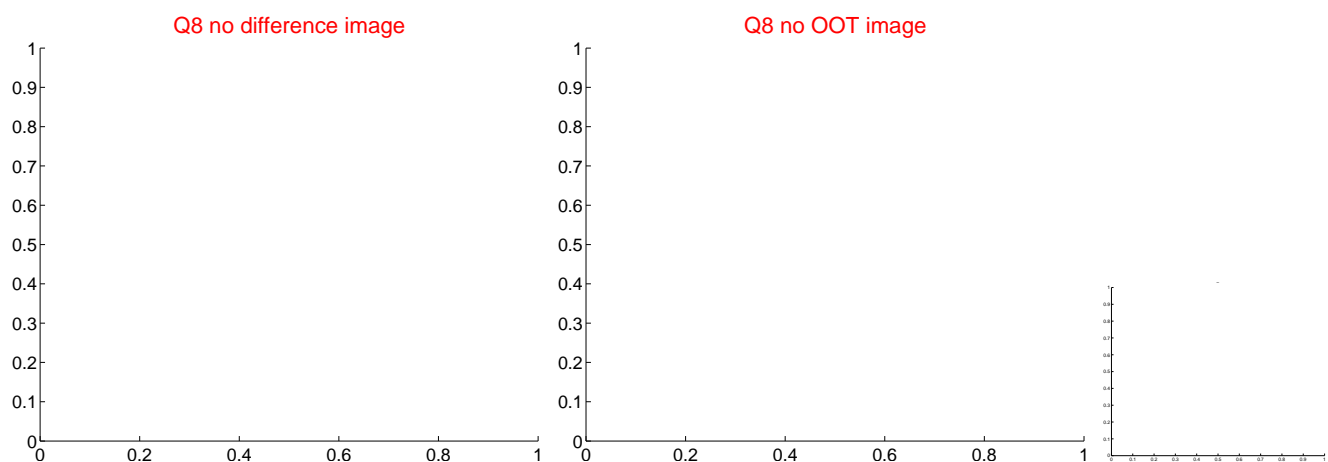
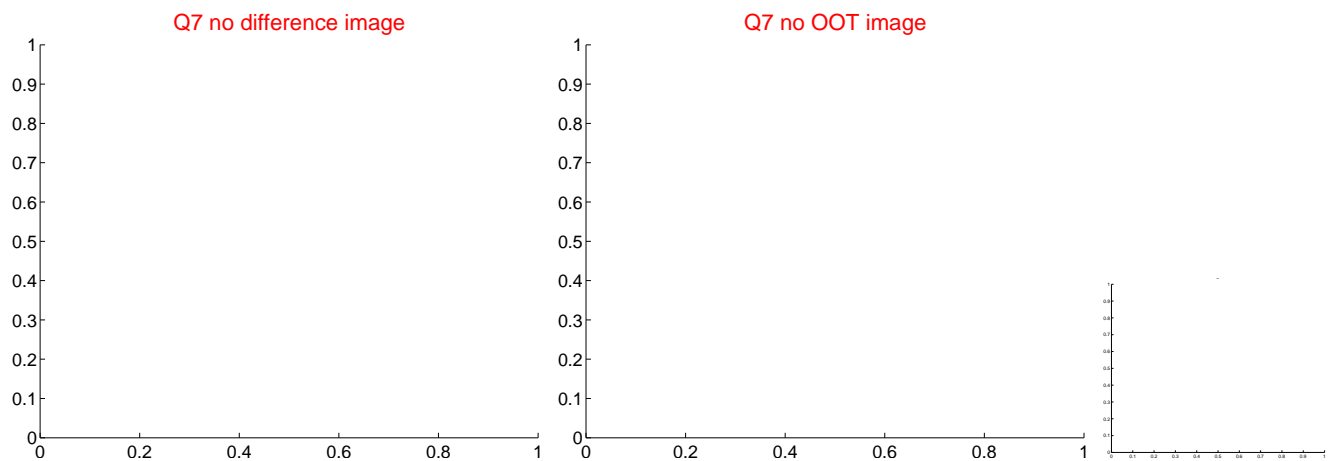
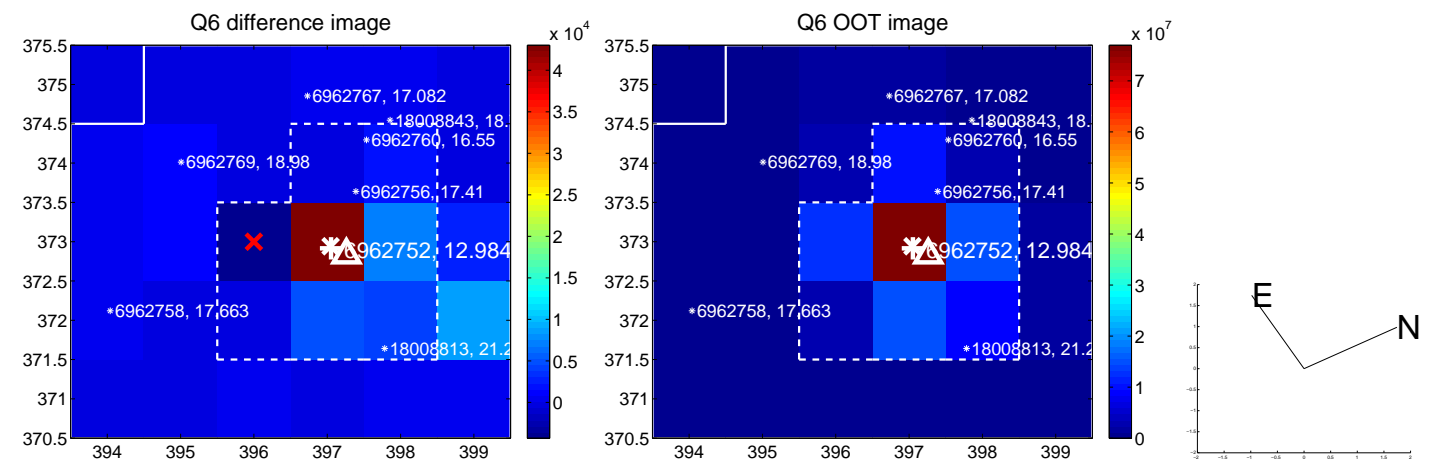
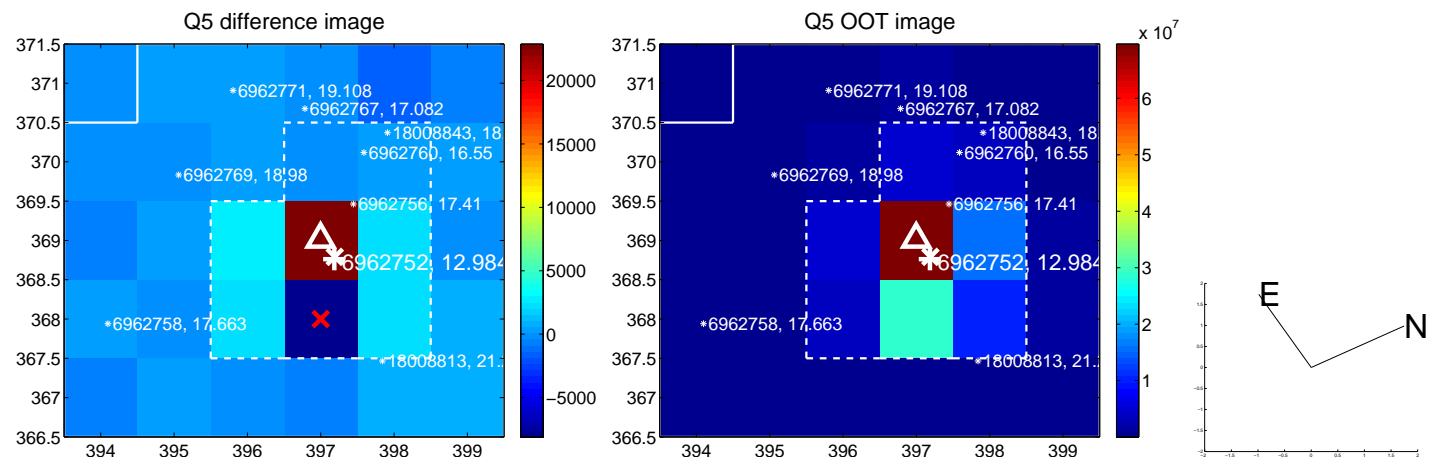


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

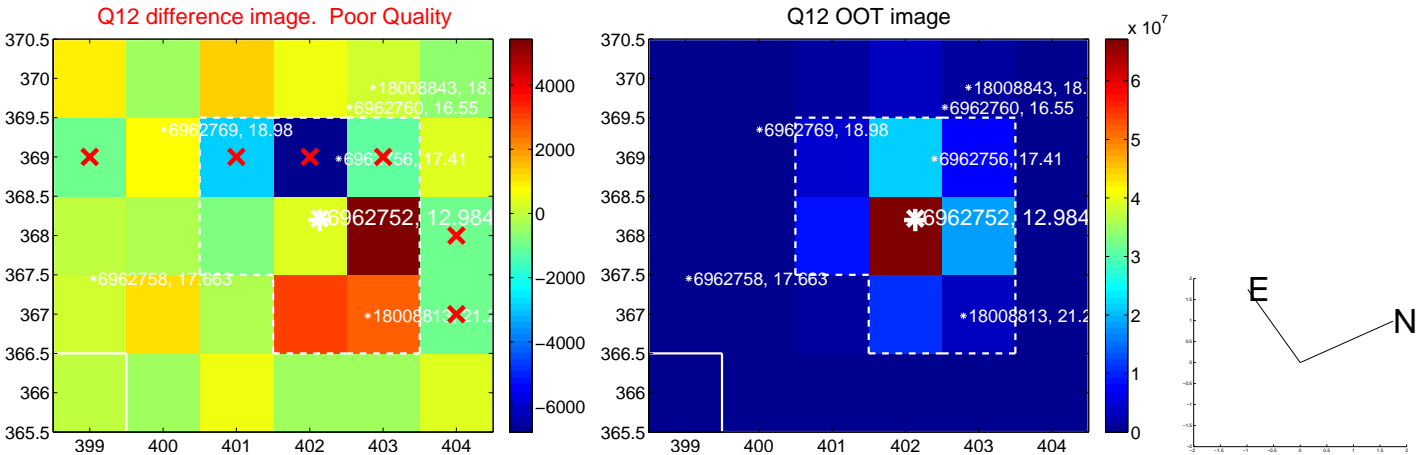
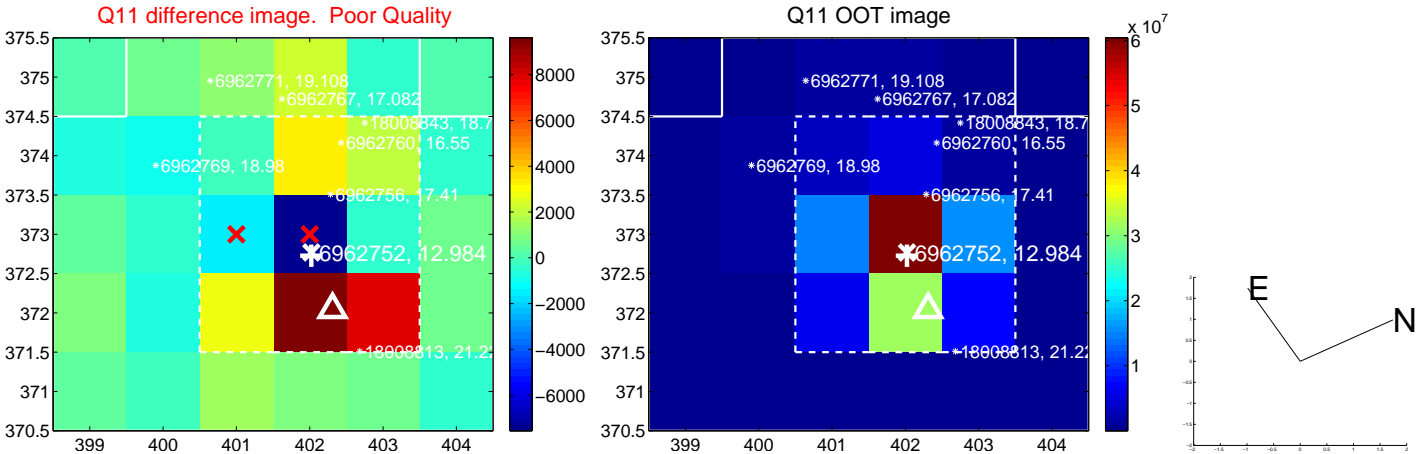
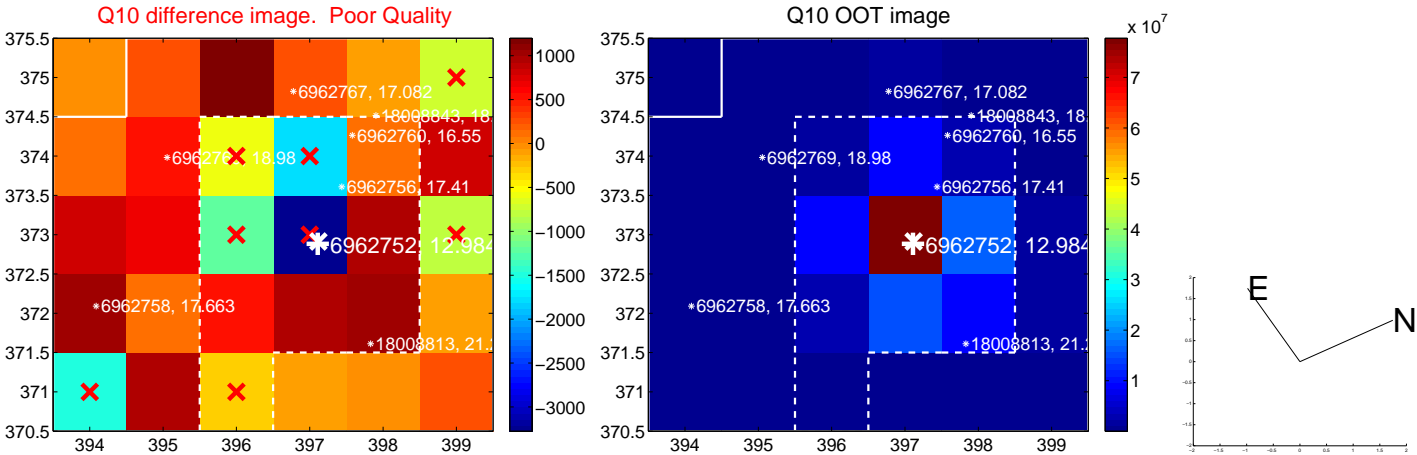
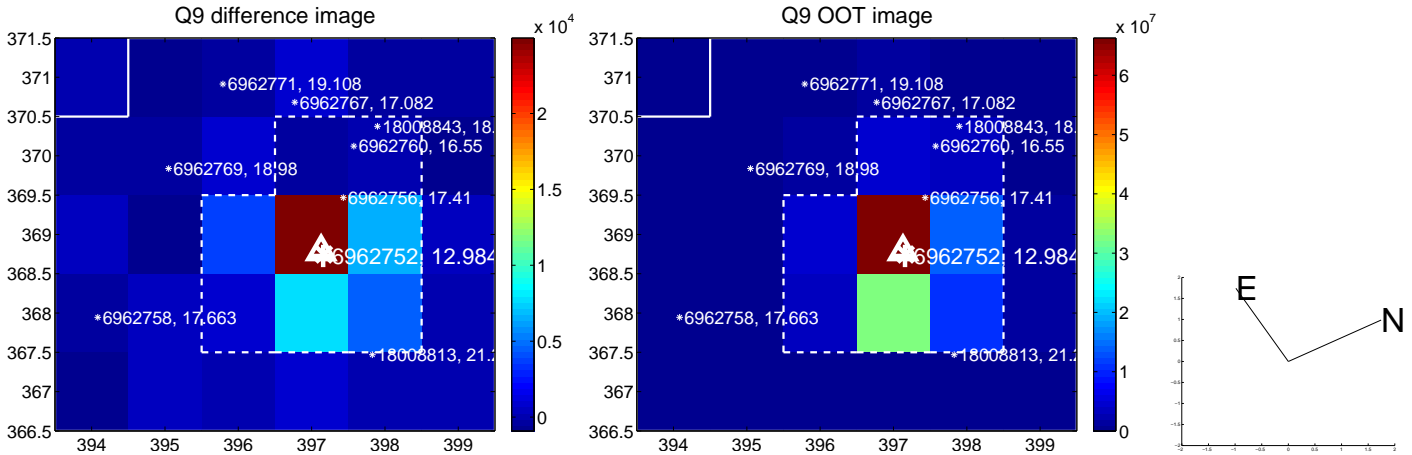
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



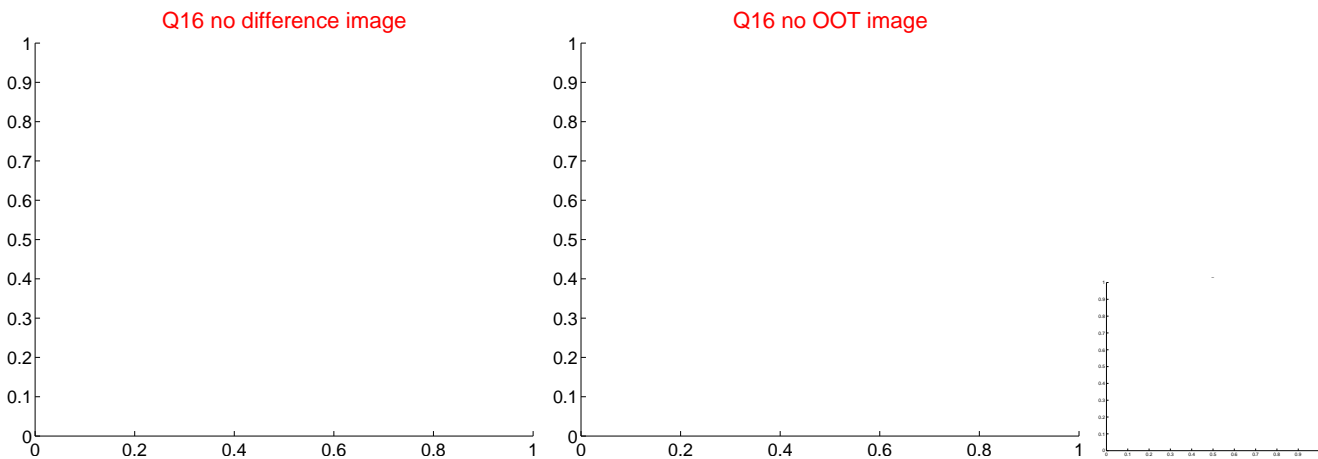
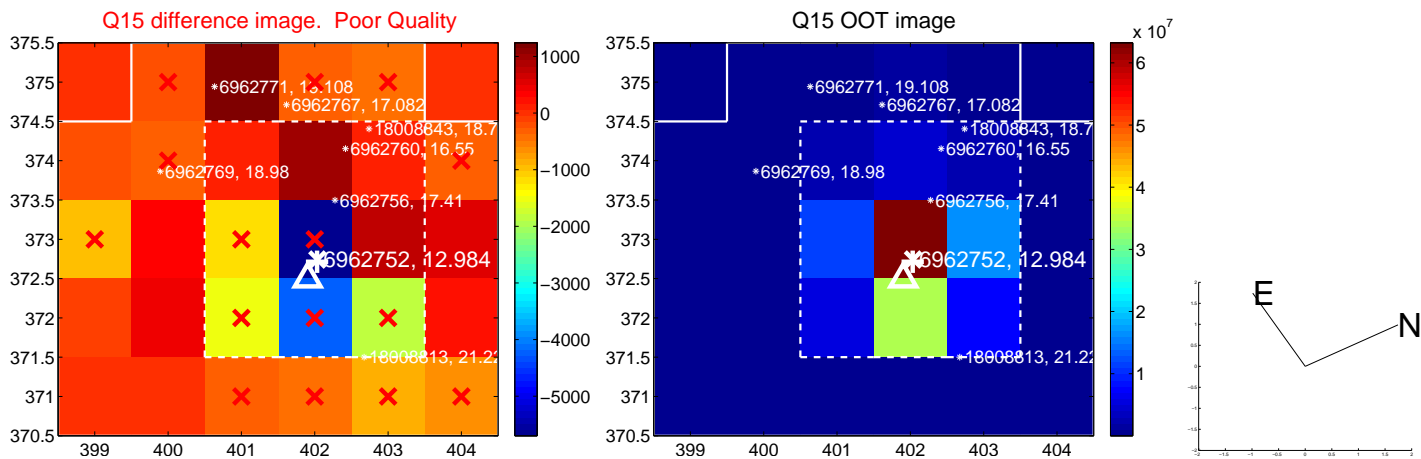
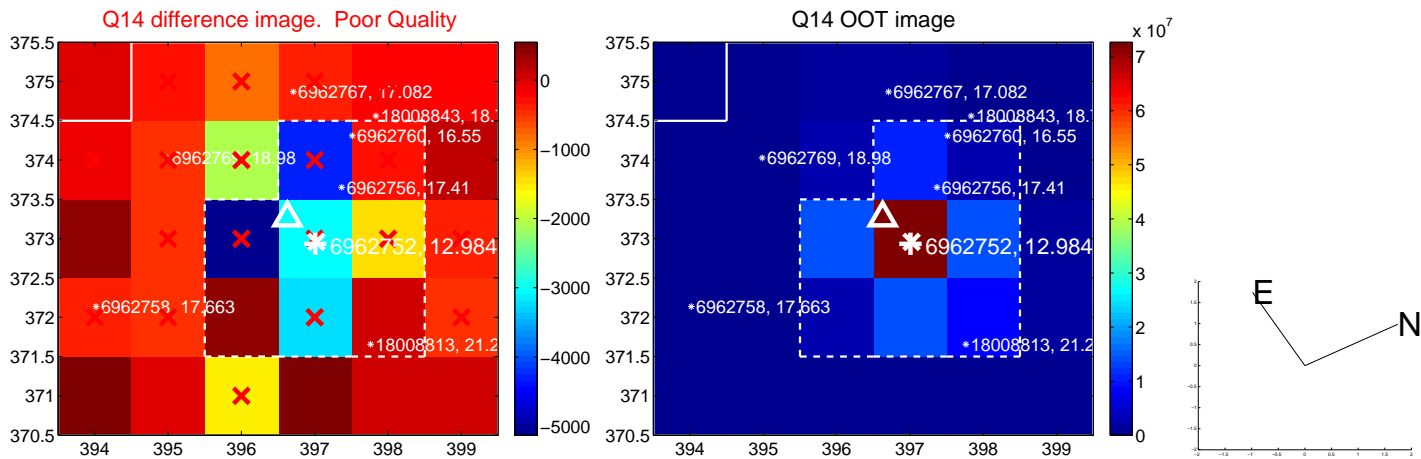
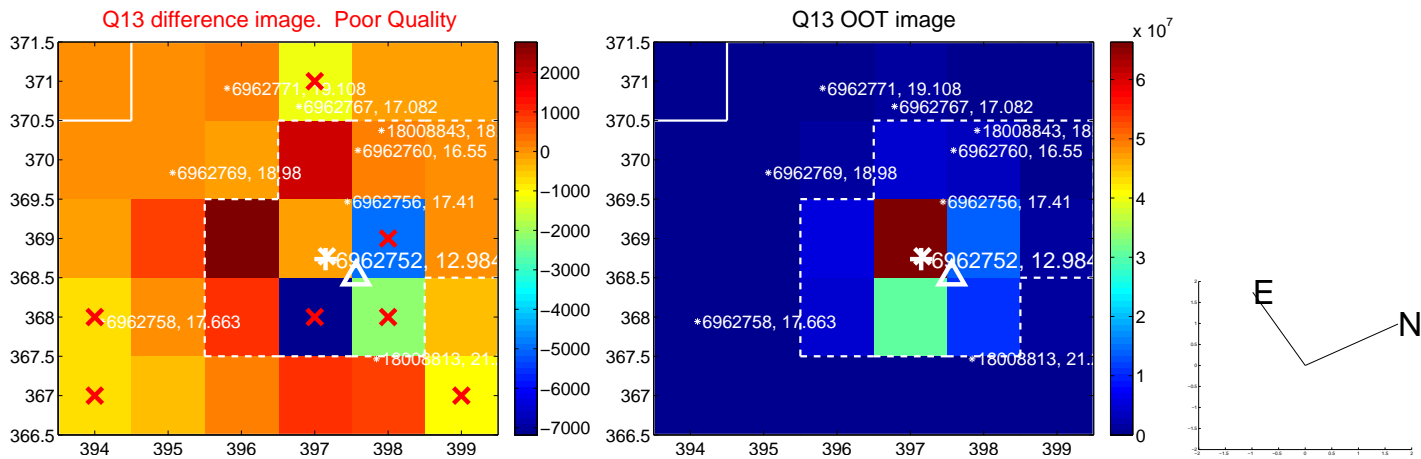
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



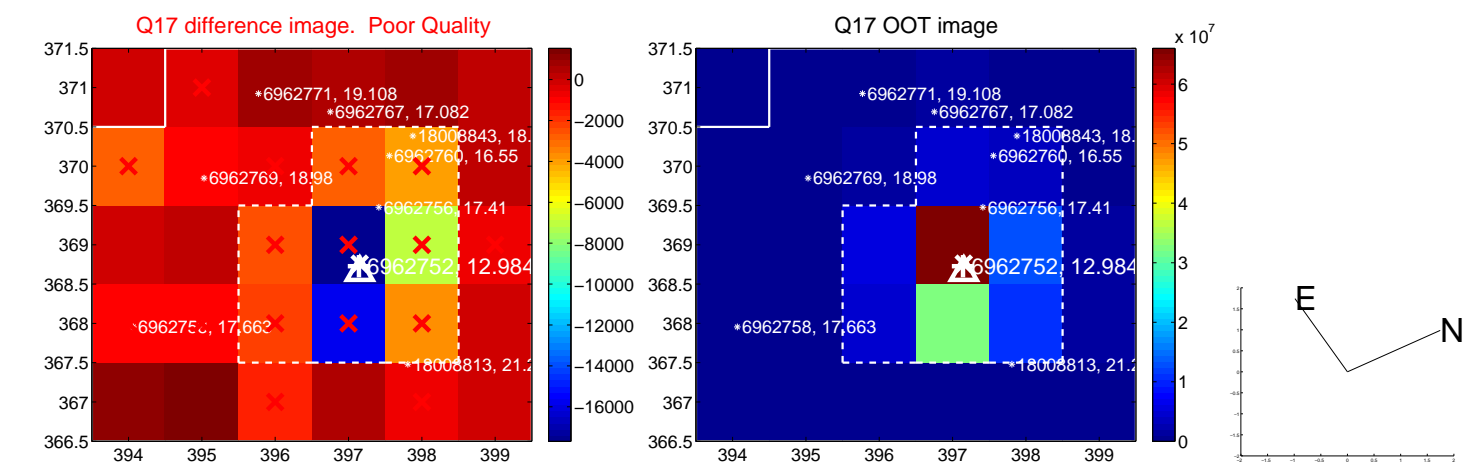
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



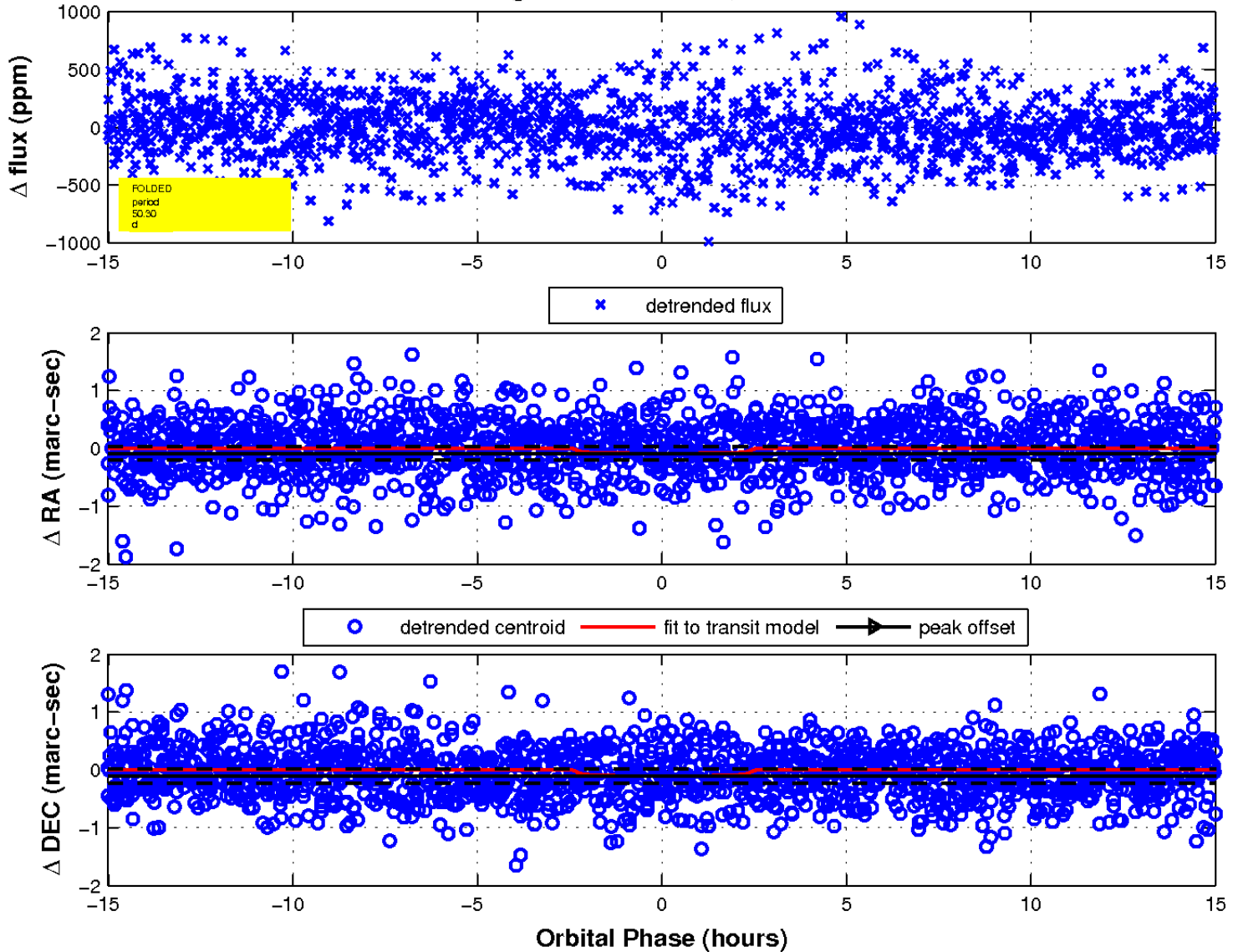
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

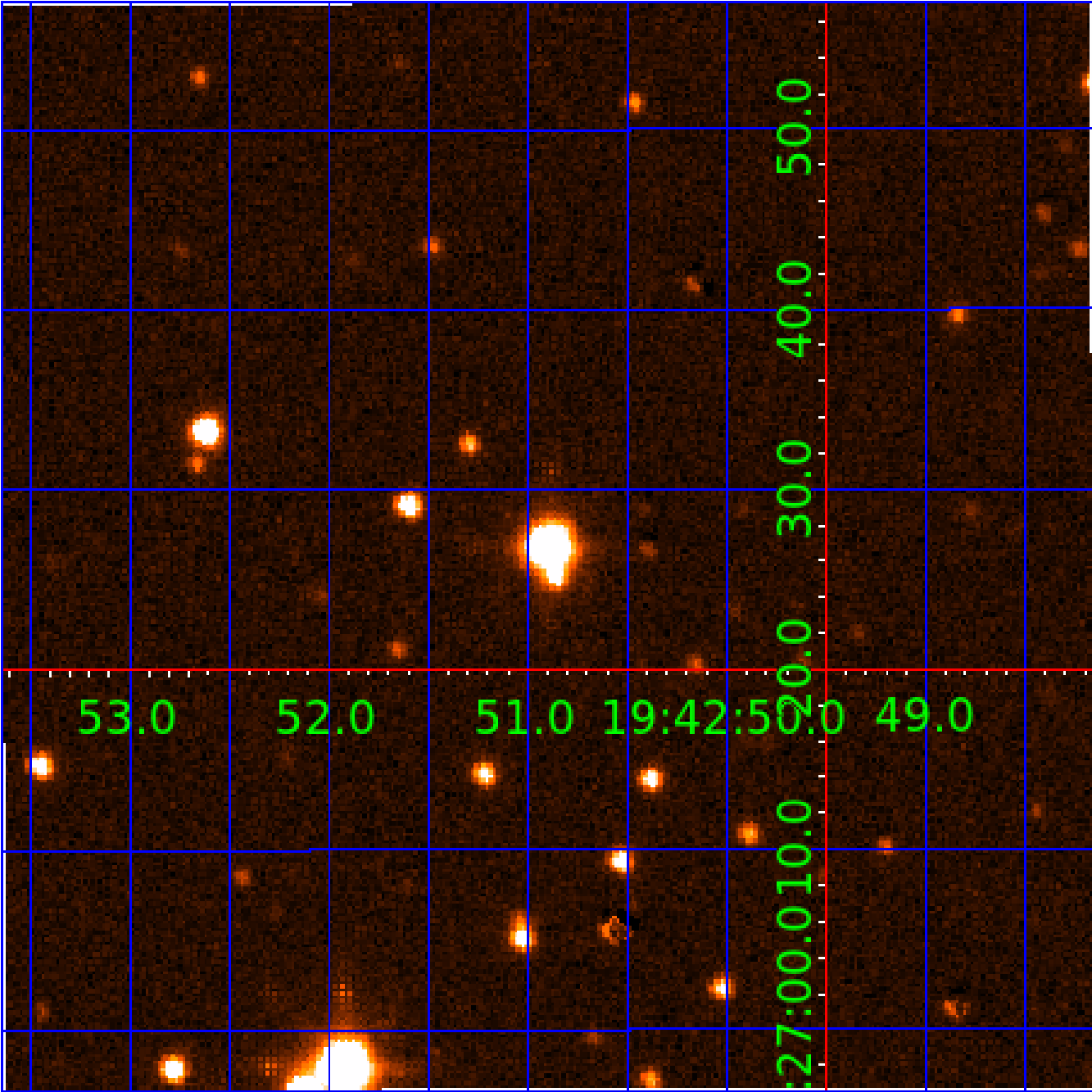


fluxWeightedCentroids, Planet 3 of 8



UKIRT Image

Declination



KIC 006962752

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})
006962752-01	OBS	No	1.525805	132.313951	30.6	9.336	8.2	8.2	3.62	6472	2.02	22191.61
006962752-02	OBS	No	454.840022	149.798932	778.5	19.428	12.7	12.0	3.62	6472	11.73	11.14
006962752-03	OBS	No	50.295264	158.002948	453.5	5.008	11.8	10.4	3.62	6472	8.43	209.97
006962752-04	OBS	No	205.071687	266.848324	534.0	6.186	11.8	7.5	3.62	6472	10.28	32.23
006962752-05	OBS	No	35.607277	136.255074	560.2	7.981	11.3	11.0	3.62	6472	16.43	332.76
006962752-06	OBS	No	99.292648	156.578330	405.3	12.137	8.7	9.3	3.62	6472	8.75	84.78
006962752-07	OBS	No	57.279682	184.351622	307.5	14.332	9.0	7.6	3.62	6472	8.34	176.54

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006962752-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006962752-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006962752-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT

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

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

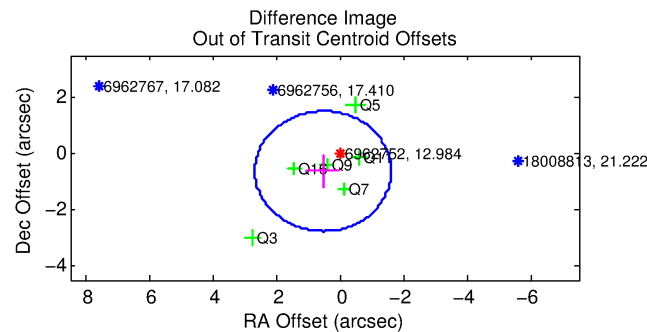
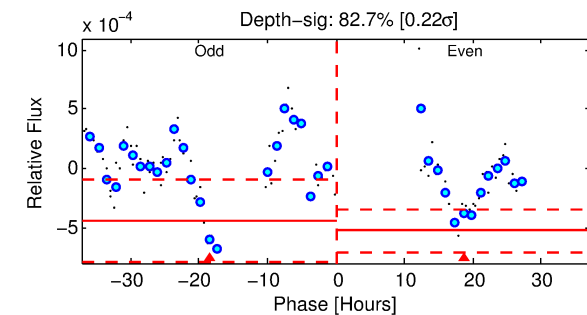
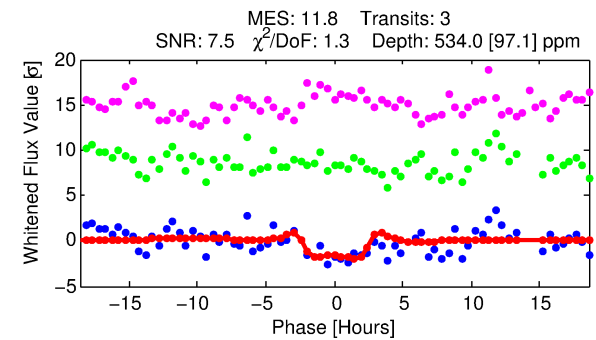
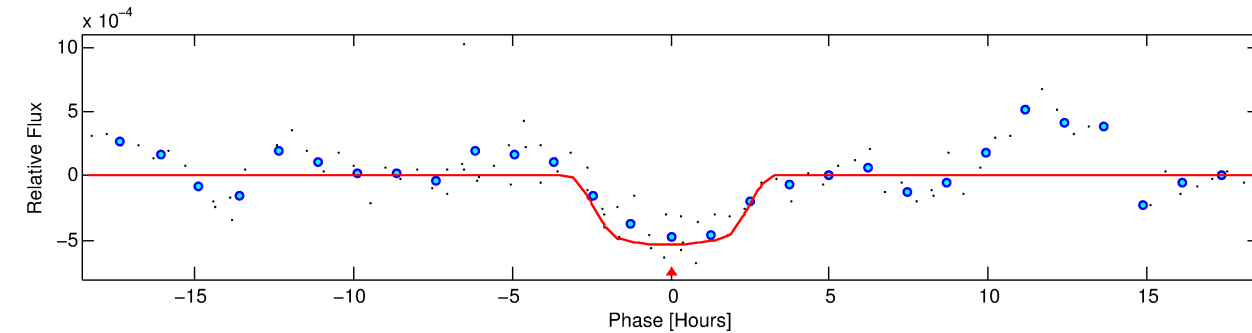
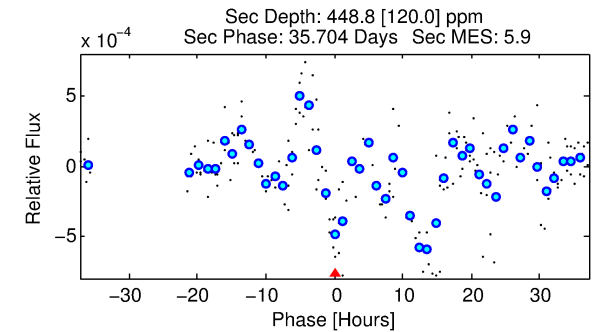
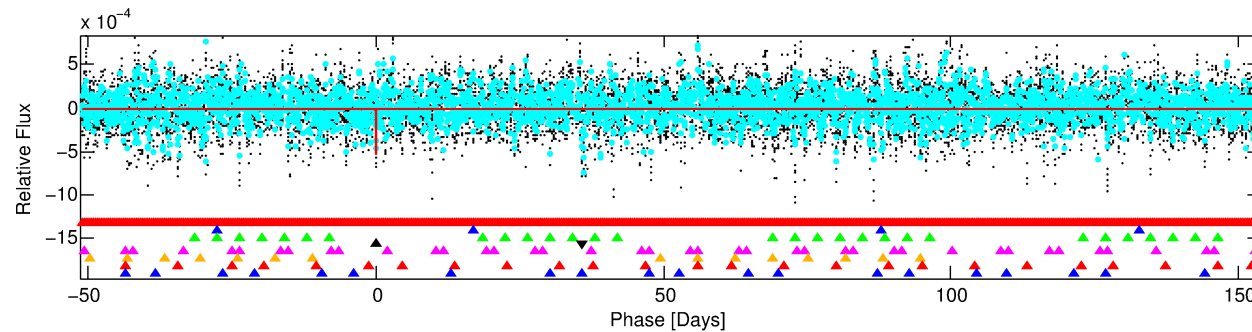
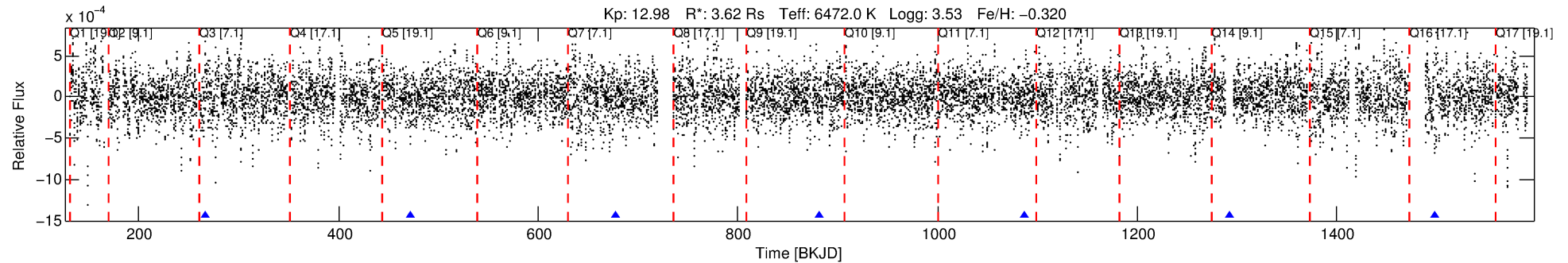
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006962752-04

No Significant Match Found

DV One-Page Summary

KIC: 6962752 Candidate: 4 of 8 Period: 205.072 d



DV Fit Results:

Period = 205.07169 [0.00450] d
Epoch = 266.8483 [0.0163] BKJD
Rp/R* = 0.0260 [0.0031]
a/R* = 100.08 [37.17]
b = 0.95 [0.04]
Seff = 32.23 [19.09]
Teq = 608 [90] K
Rp = 10.28 [4.29] Re
a = 0.7994 [0.2970] AU
Ag = 1491.88 [1019.78] [1.46σ]
Teffp = 5838 [547] K [9.44σ]

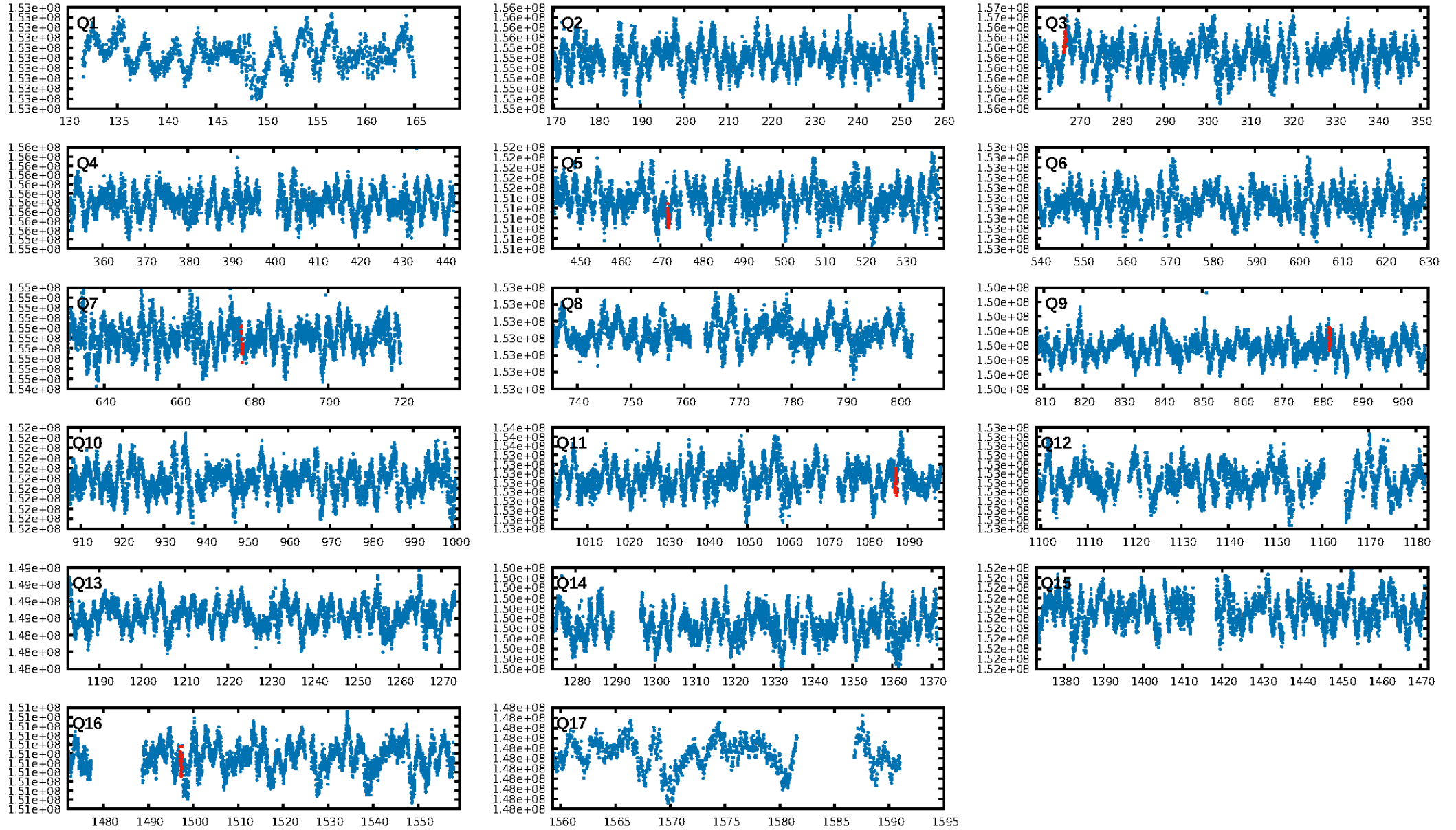
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [186.36σ]
LongPeriod-sig: 100.0% [294.00σ]
ModelChiSquare2-sig: 96.8%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.3451
Centroid-sig: 31.6%
Centroid-so: 0.313 arcsec [0.93σ]
OotOffset-rm: 0.833 arcsec [1.17σ]
KicOffset-rm: 0.842 arcsec [1.08σ]
OotOffset-st: 0.3/1/2 [6]
KicOffset-st: 0.3/1/2 [6]
DiffImageQuality-fgm: 0.83 [5/6]
DiffImageOverlap-fno: 0.00 [0/6]

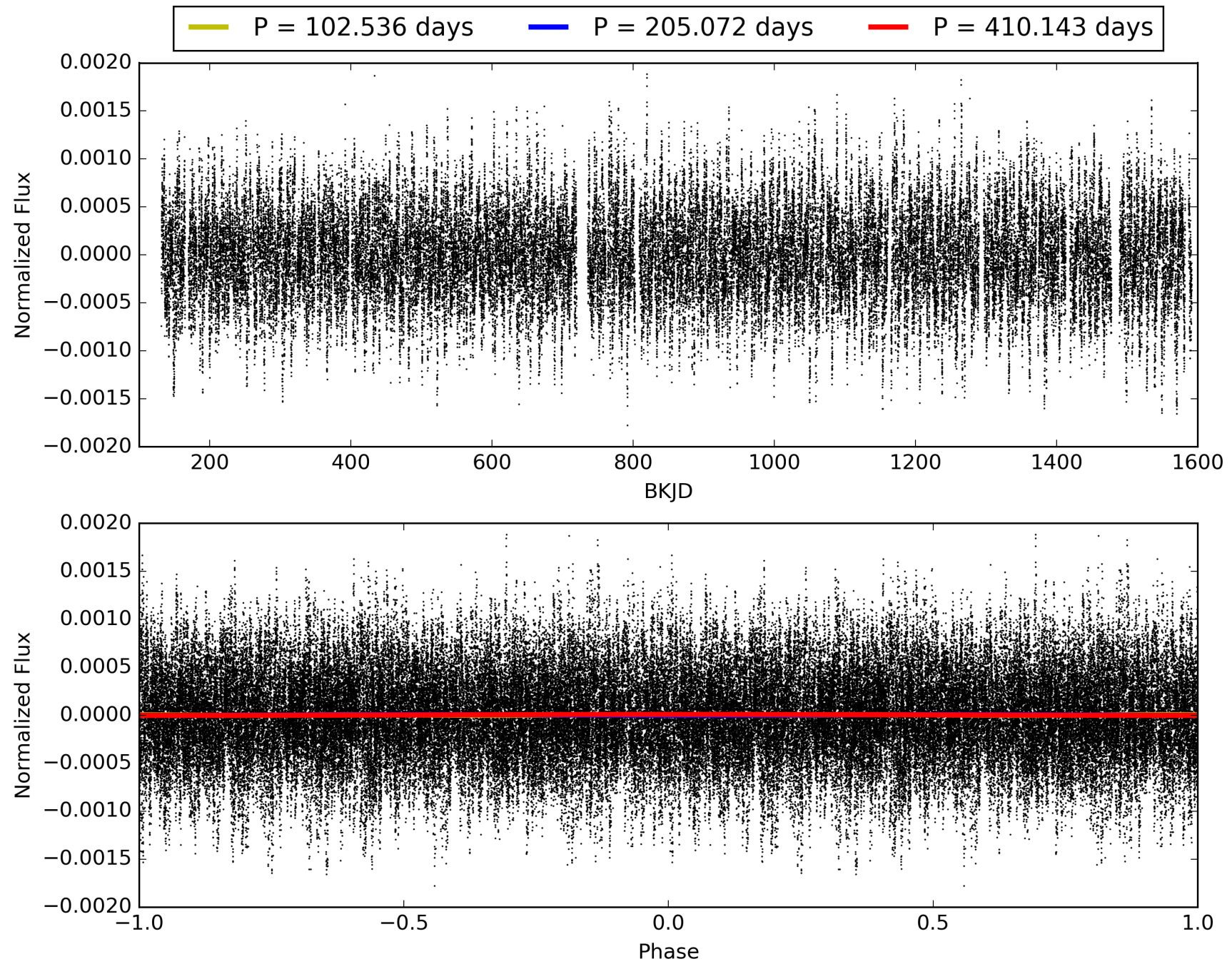
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 08:18:48 Z

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

TCE 006962752-04, PDC Light Curves

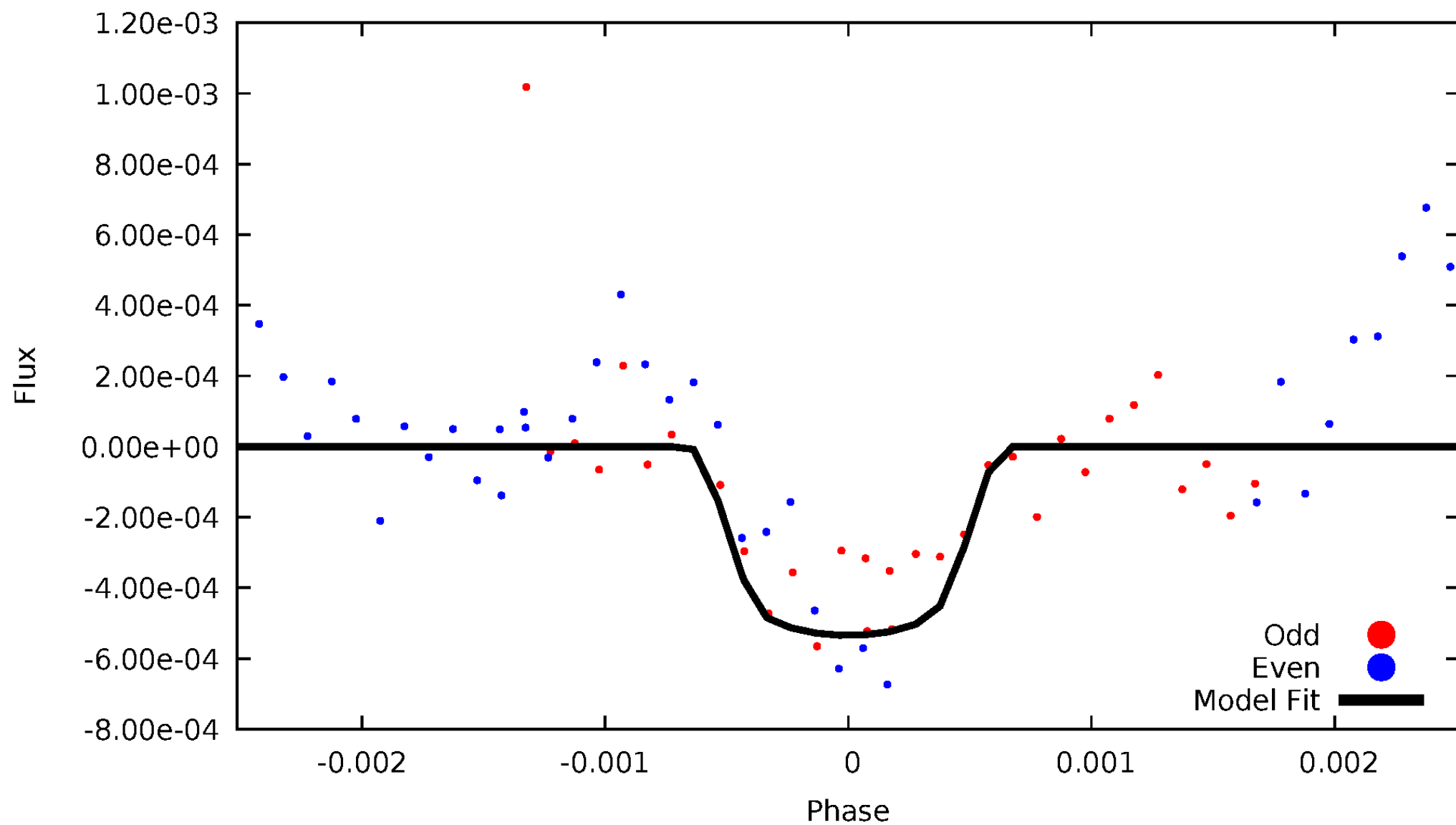


TCE 006962752-04



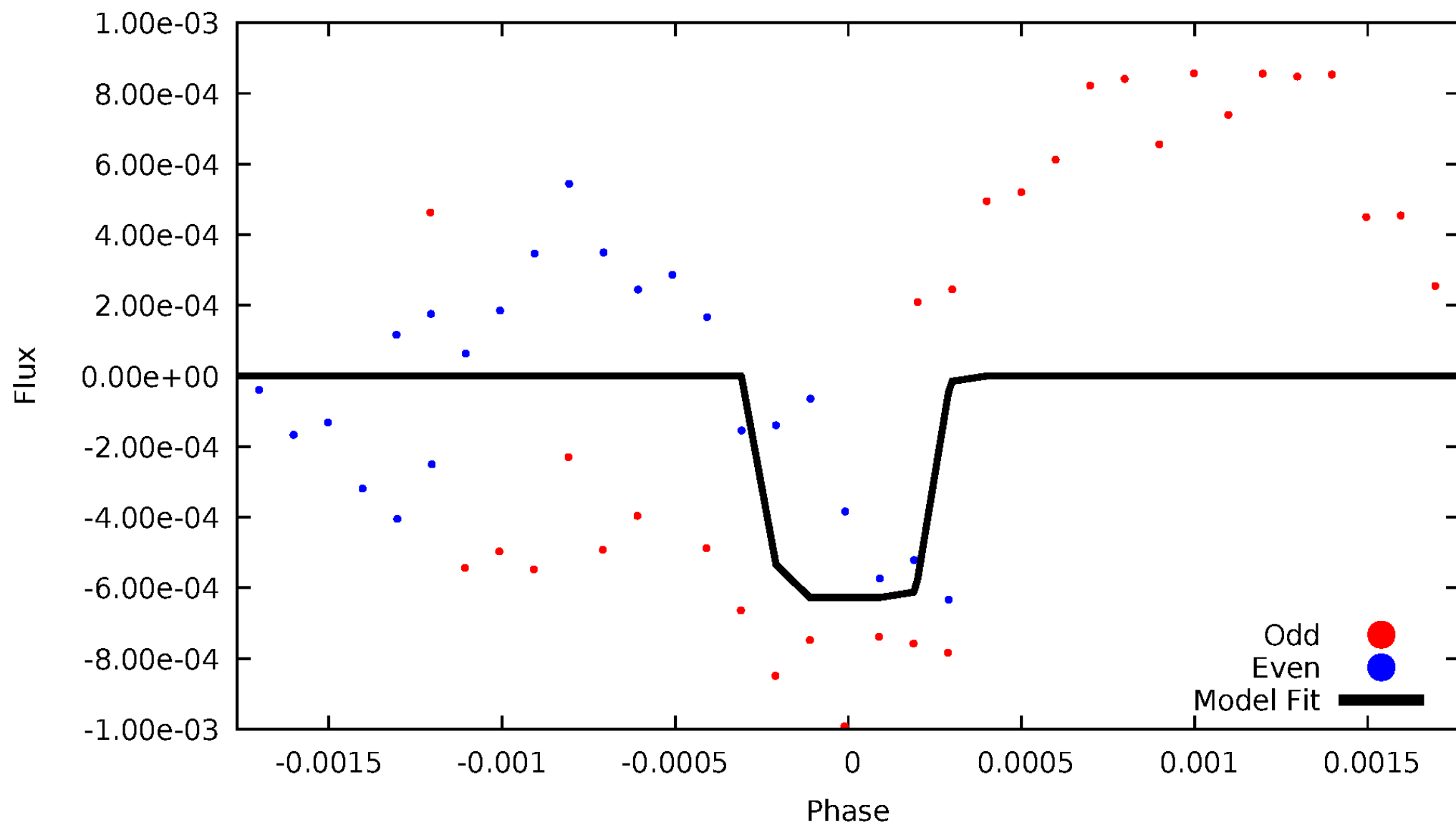
DV Odd/Even

TCE 006962752-04



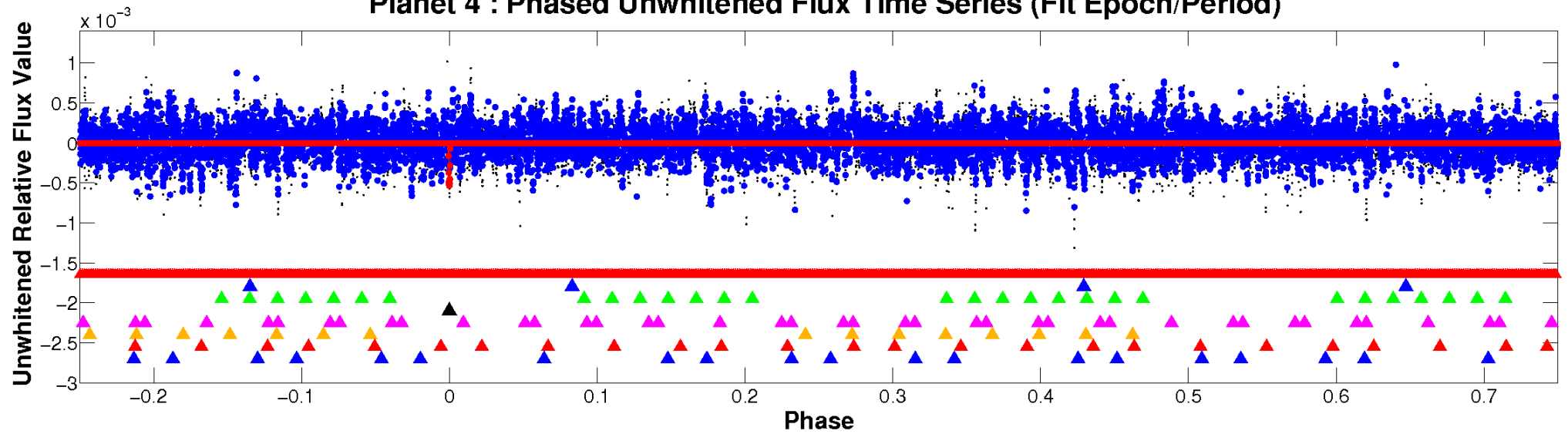
ALT Odd/Even

TCE 006962752-04

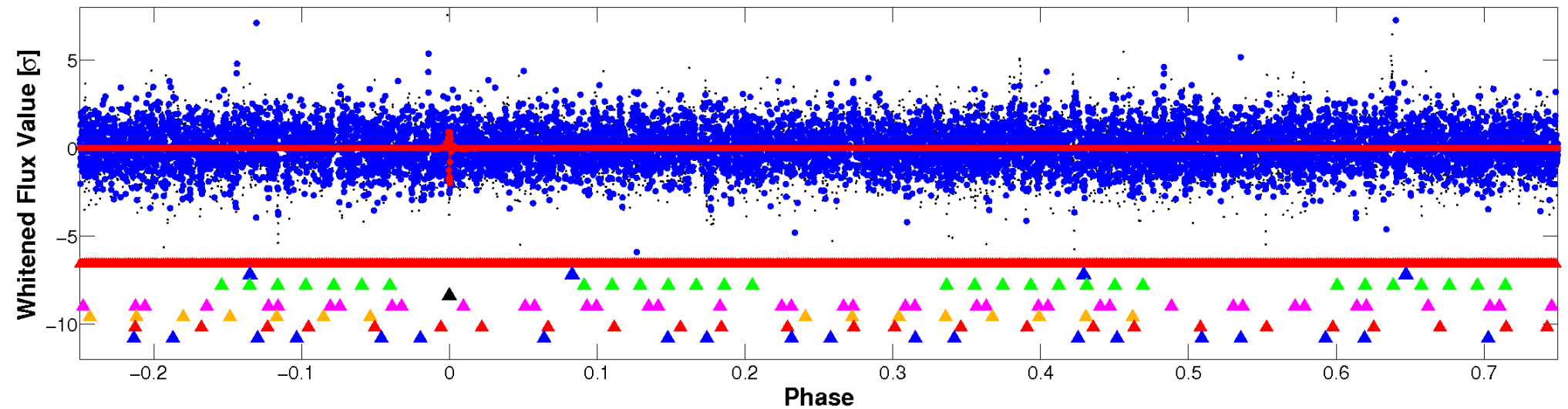


Non-Whitened Vs. Whitened Light Curve

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

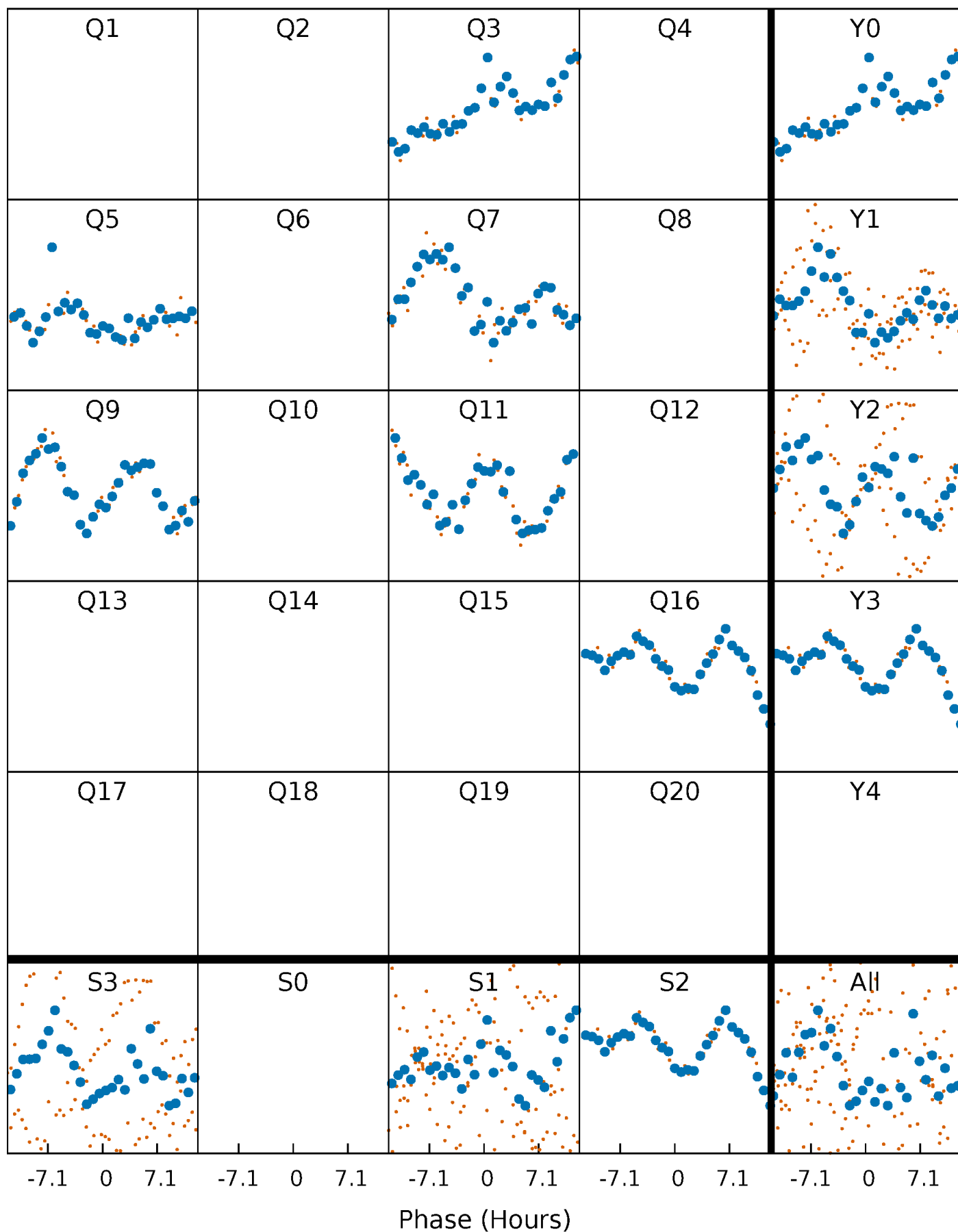


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



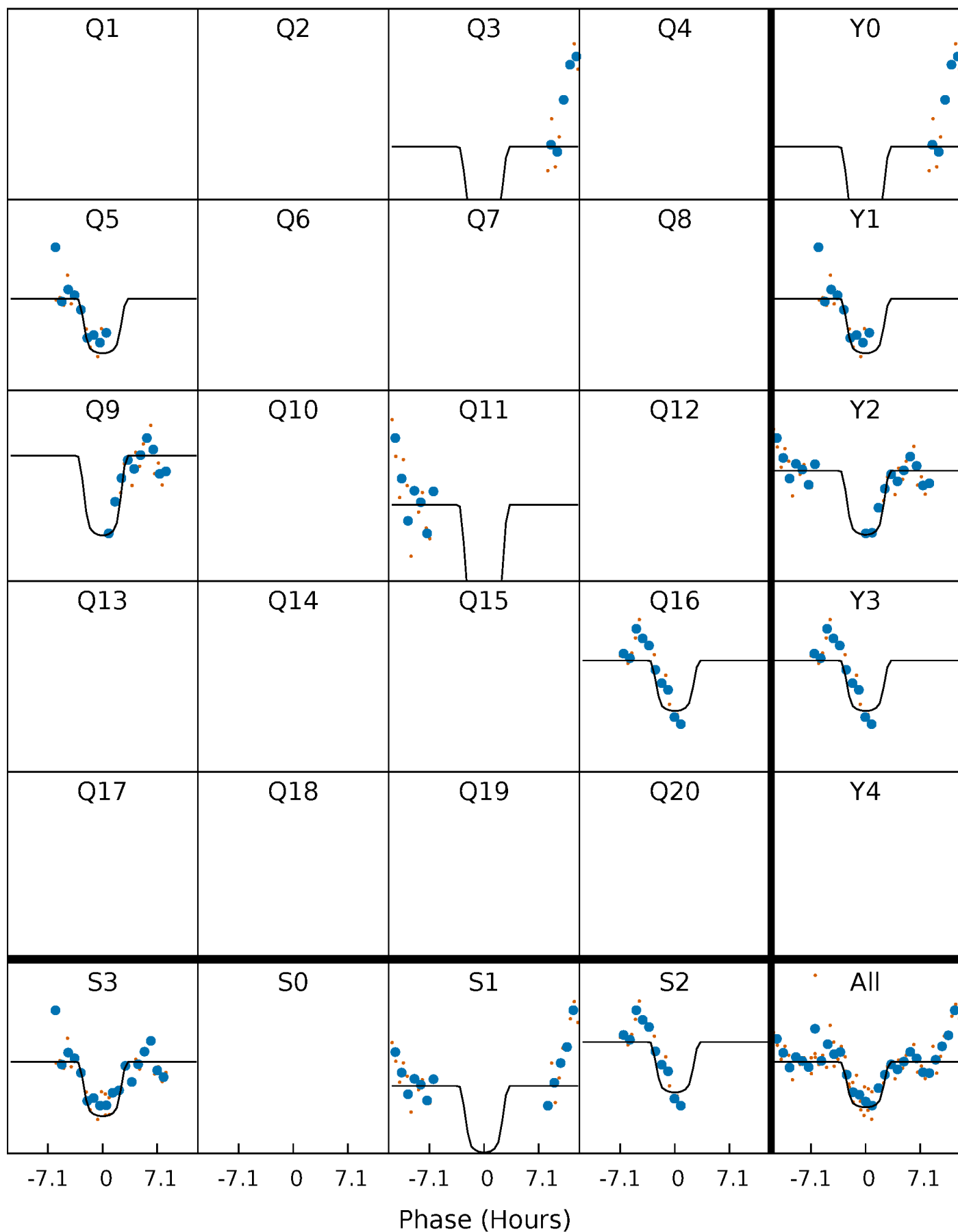
PDC Quarter-Phased Transit Curves

TCE 006962752-04 P=205.071687 Days $T_0=266.848324$ (BKJD)



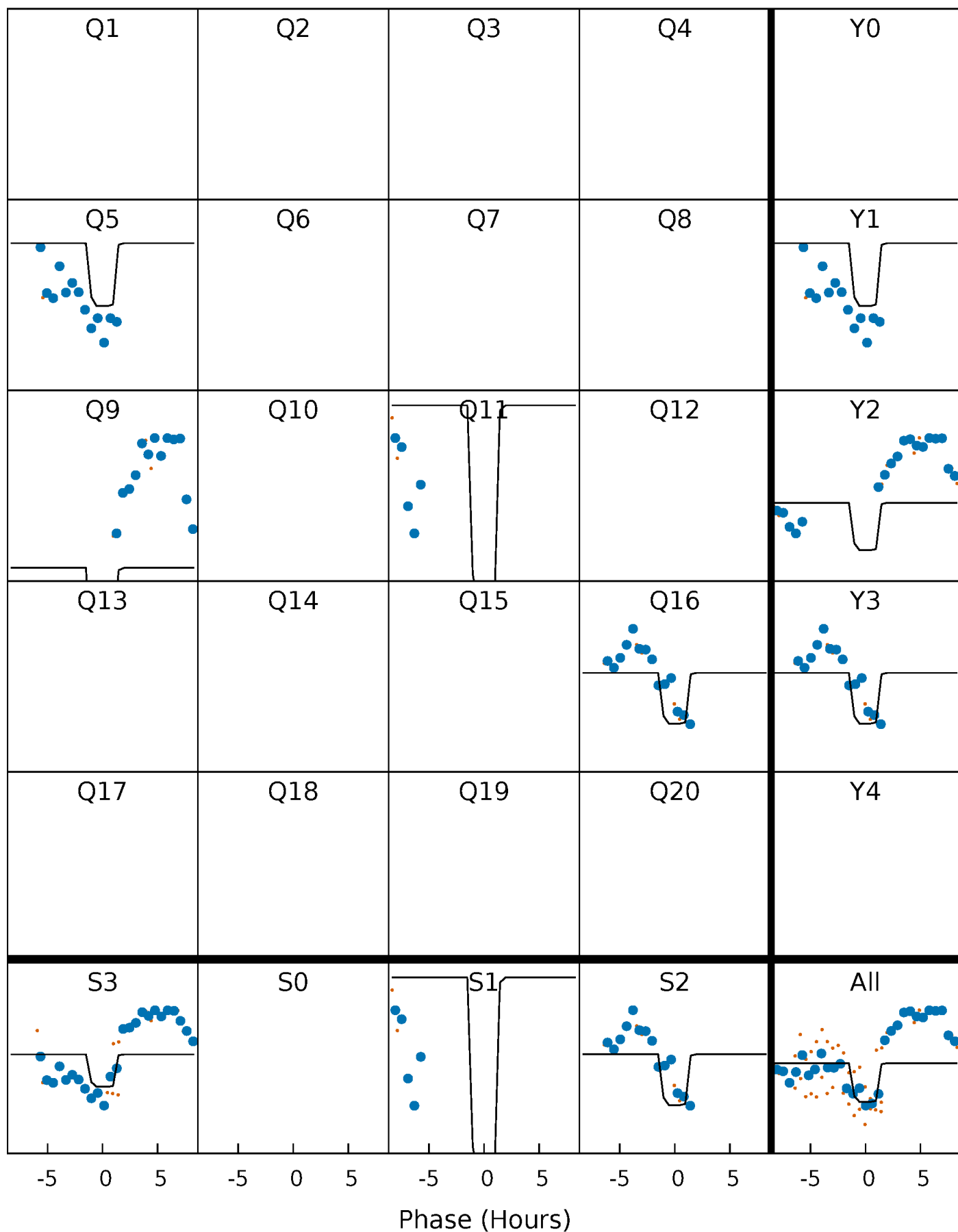
DV Quarter-Phased Transit Curves

TCE 006962752-04 $P=205.071687$ Days $T_0=266.848324$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

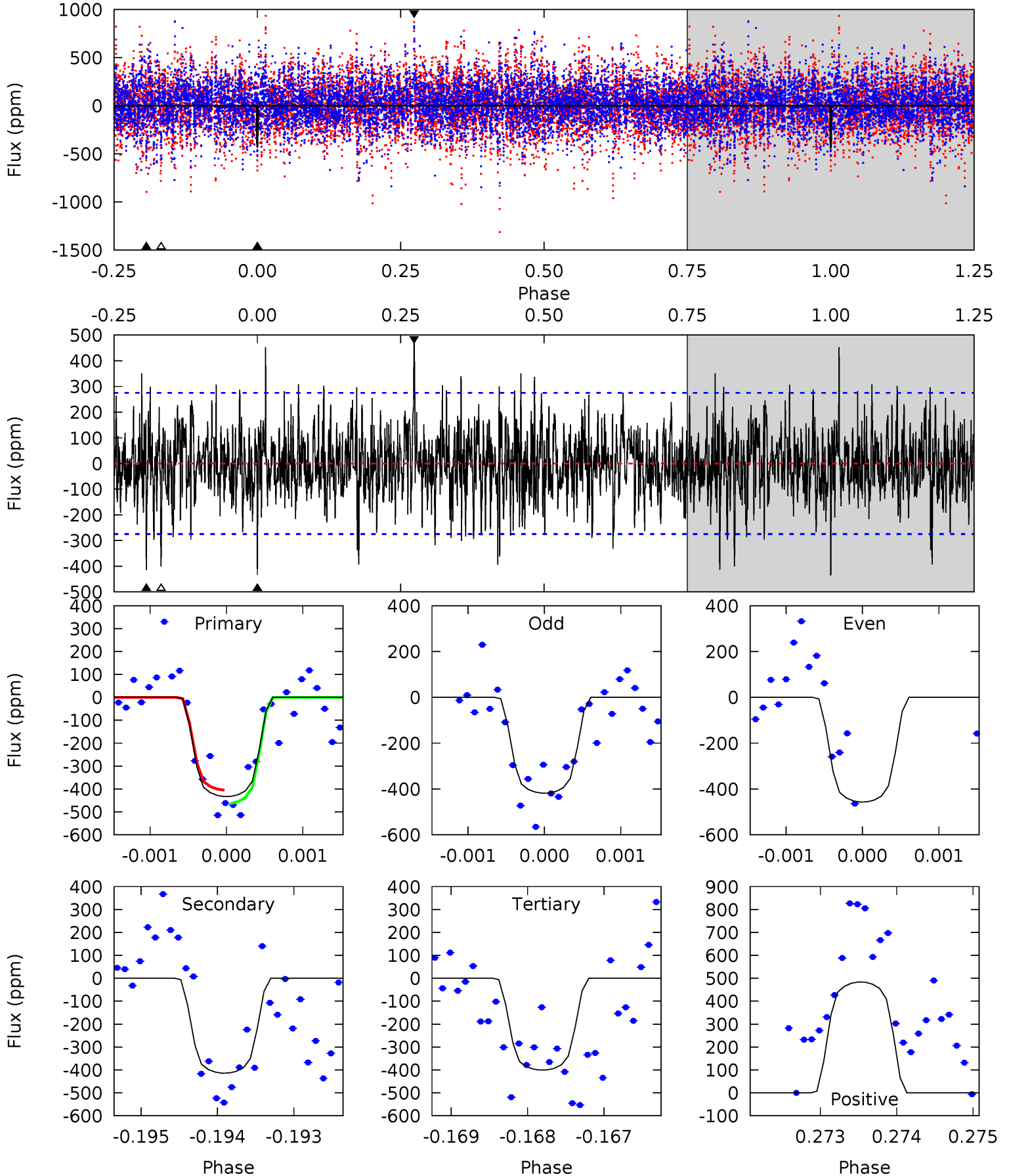
TCE 006962752-04 $P=205.071208$ Days $T_0=266.824730$ (BKJD)



DV Model-Shift Uniqueness Test

006962752-04, P = 205.071687 Days, E = 61.776637 Days

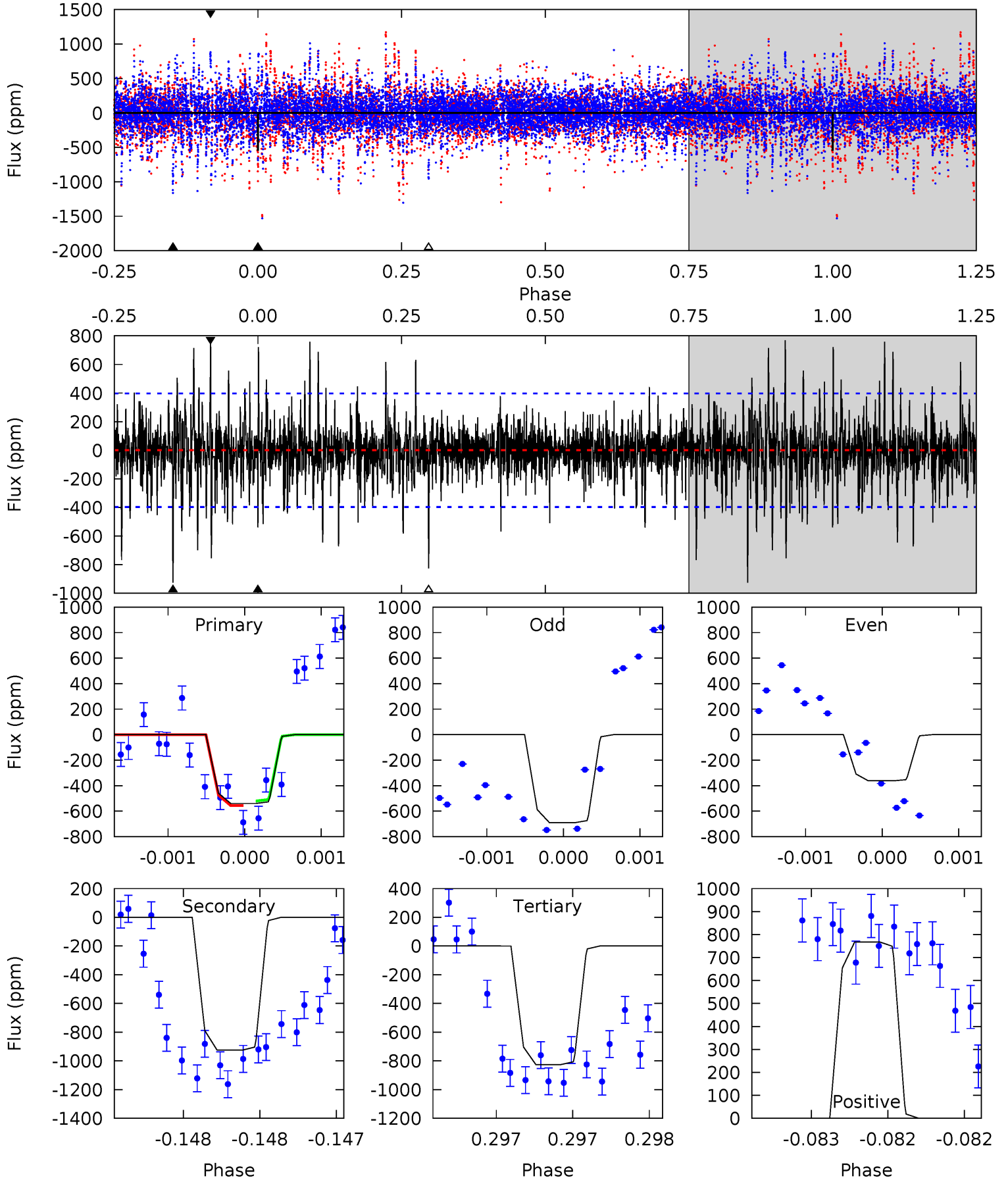
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.56	8.19	7.92	9.56	5.43	3.26	2.15	0.64	-1.00	0.27	-1.37	0.36	0.98	0.53	0.57



Alt Model-Shift Uniqueness Test

006962752-04, P = 205.071208 Days, E = 61.753522 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.53	12.9	11.5	10.7	5.54	3.43	2.13	-3.99	-3.18	1.39	2.21	2.27	0.91	0.45	0.25



Stellar Parameters For KIC 006962752

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6472^{+176}_{-176}	$3.530^{+0.337}_{-0.112}$	$-0.320^{+0.350}_{-0.300}$	$3.620^{+0.483}_{-1.448}$	$1.621^{+0.212}_{-0.393}$	$0.048^{+0.128}_{-0.017}$
	+3%/-3%	+10%/-3%	+109%/-94%	+13%/-40%	+13%/-24%	+267%/-36%
Source	PHO1	FLK73	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 006962752-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-414 ± 51	$9.98^{+1.71}_{-2.14}$	837^{+53}_{-75}	5716^{+399}_{-347}	1477^{+817}_{-443}
Alt.	-925 ± 72	$9.50^{+1.91}_{-2.01}$	838^{+52}_{-76}	7188^{+683}_{-516}	3574^{+2085}_{-1043}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming A=0.3)

A_{obs} = Observed Albedo (Assuming T=0)

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

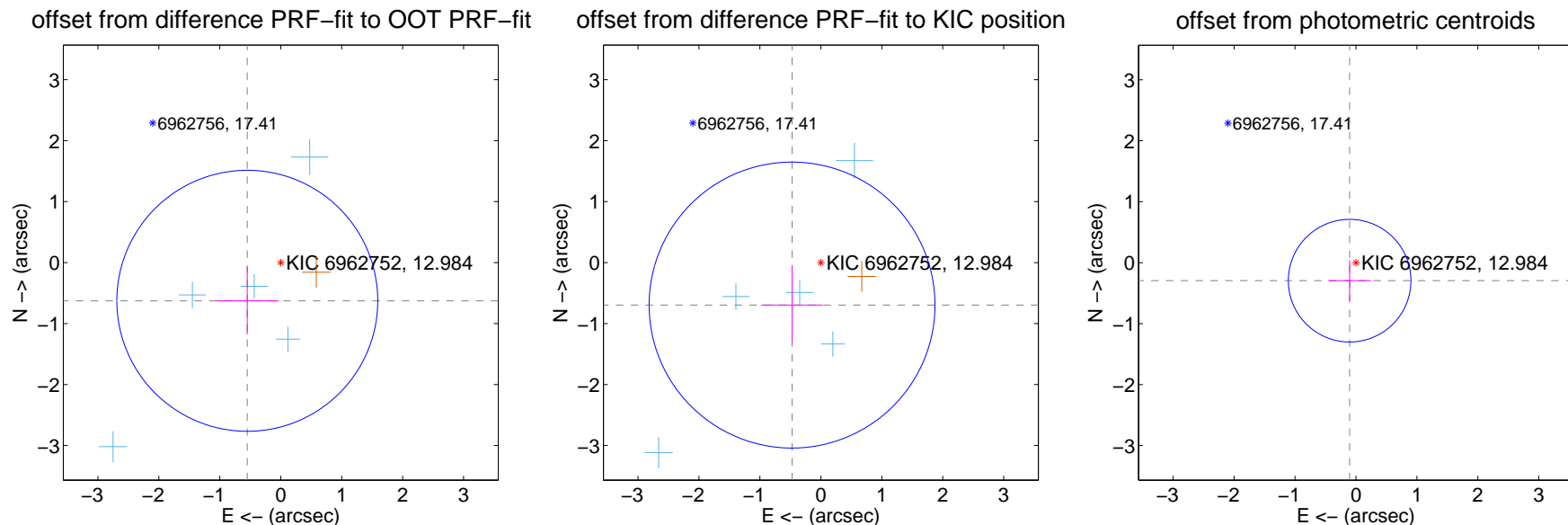
DV Centroid Data

Supplemental centroid analysis for 006962752-04. Kepler magnitude: 12.98. Transit SNR 7.52

There are 5 quarters with good PRF difference image offsets

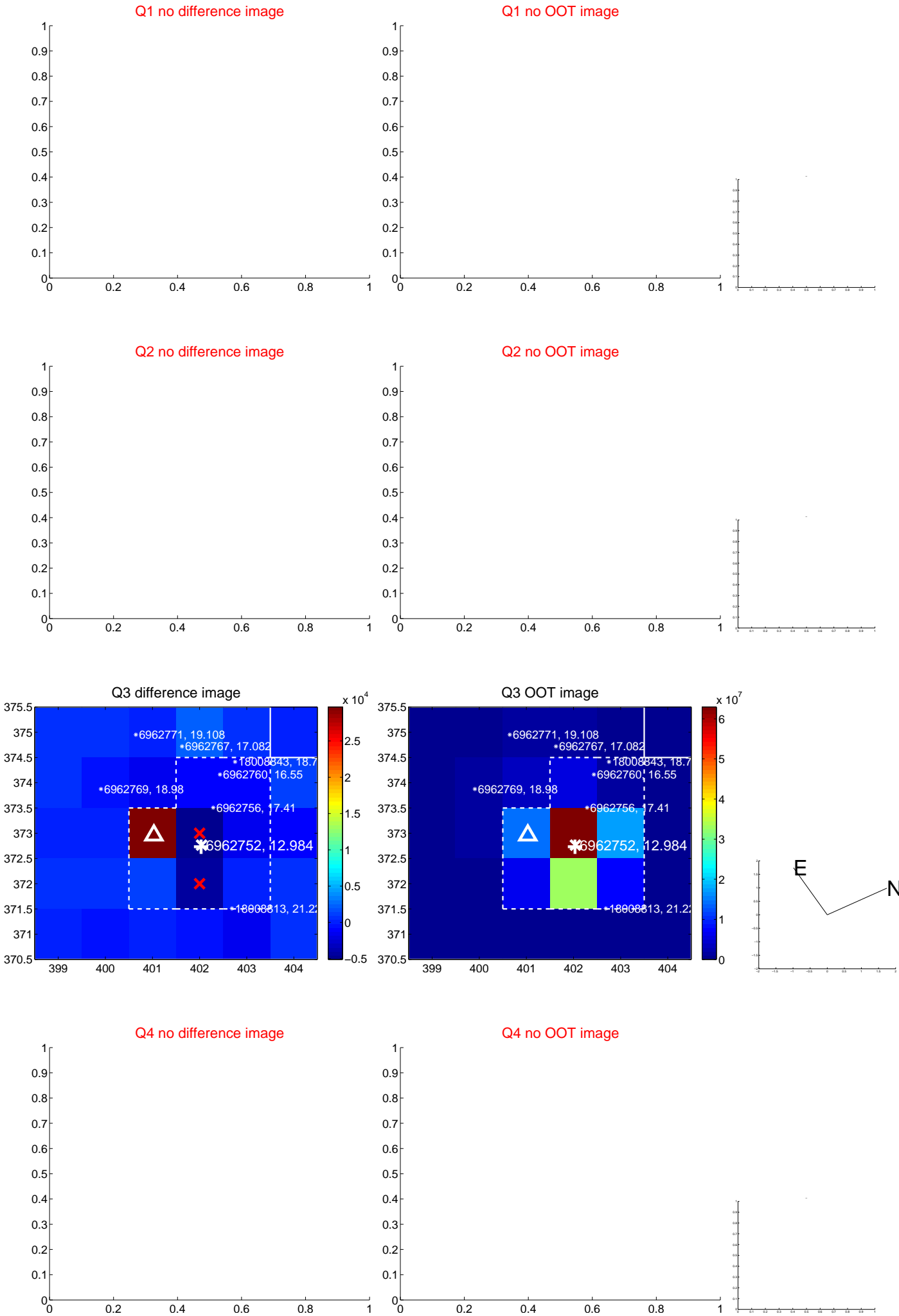
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.833 ± 0.713	1.17	0.549 ± 0.515	-0.627 ± 0.553
PRF-fit source offset from KIC position	0.842 ± 0.782	1.08	0.473 ± 0.506	-0.697 ± 0.641
photometric centroid source offset	0.31 ± 0.34	0.93	0.10 ± 0.35	-0.30 ± 0.33

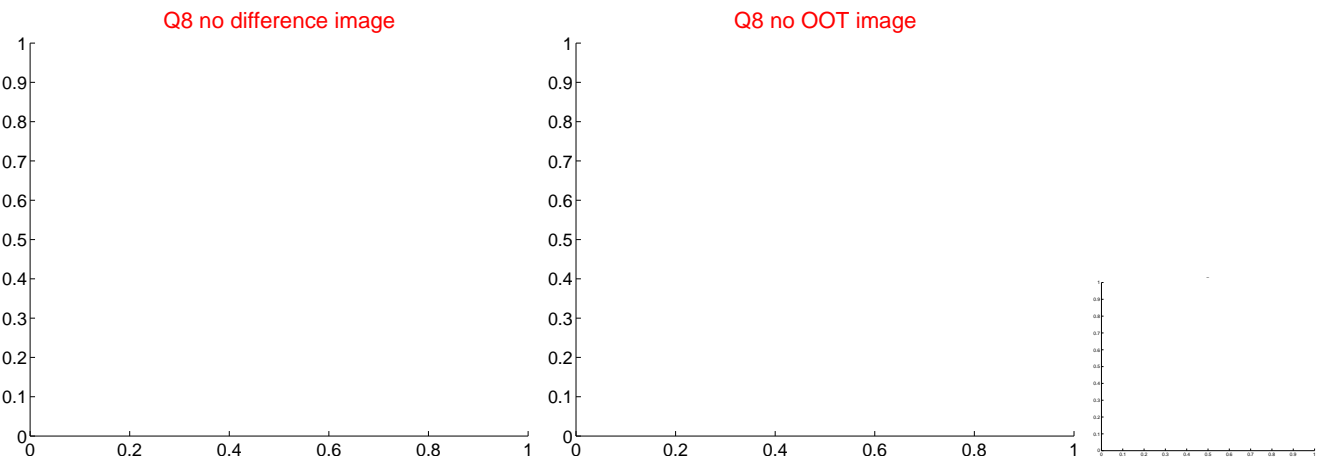
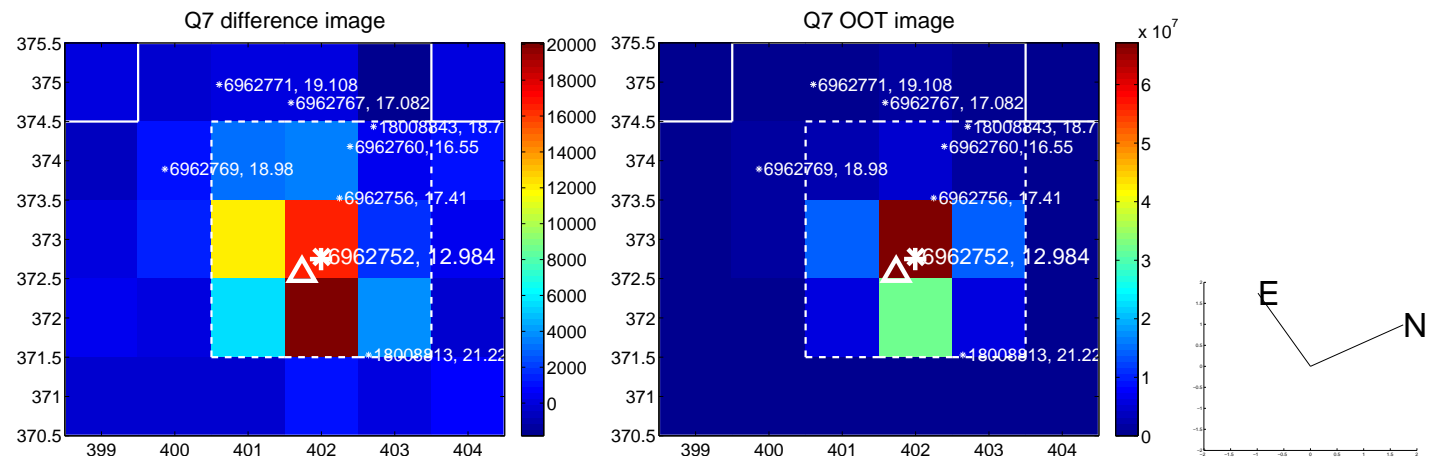
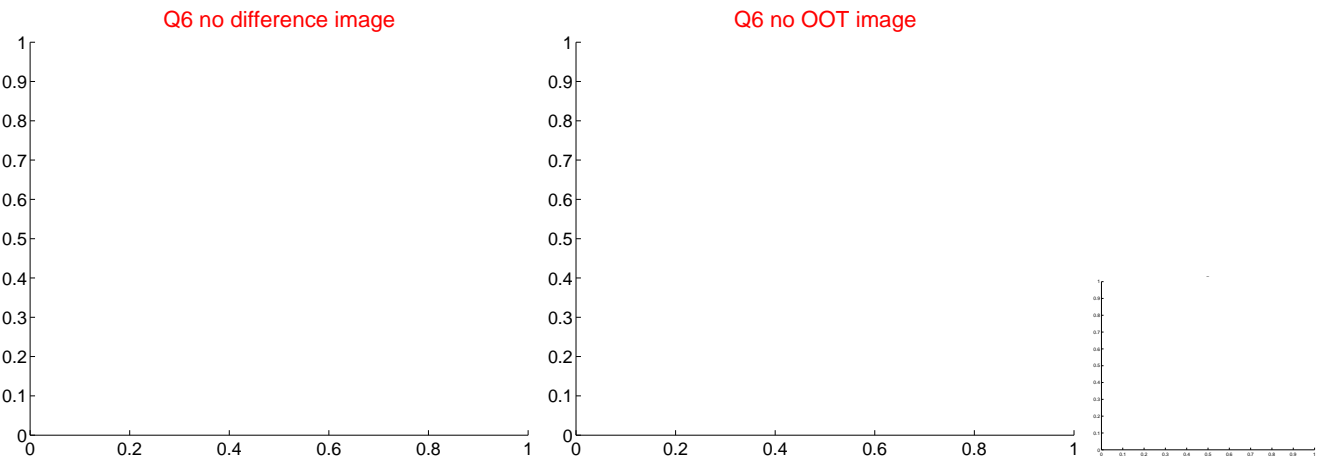
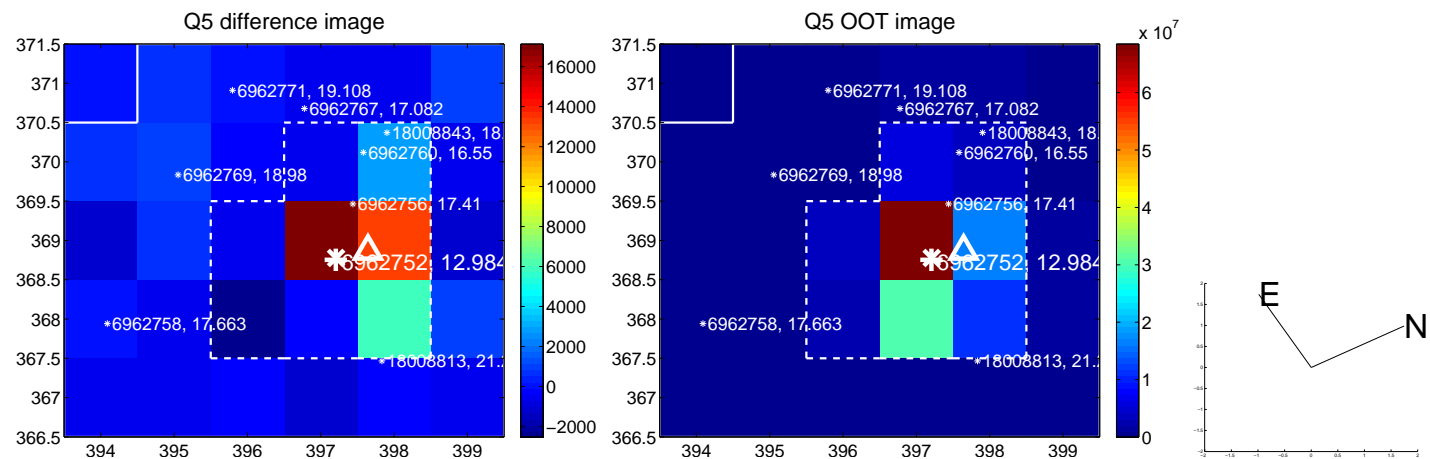


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

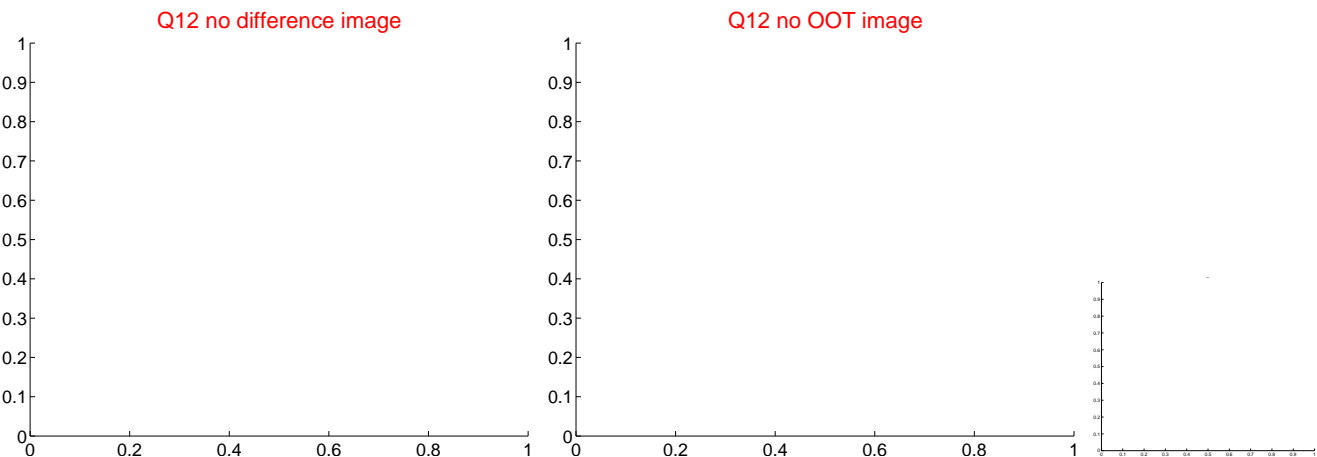
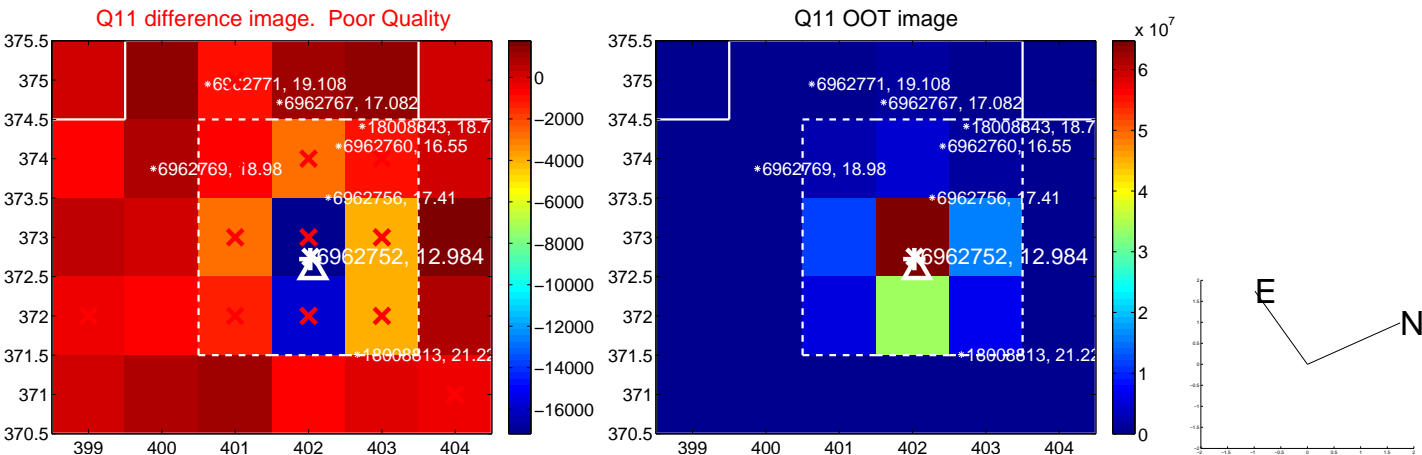
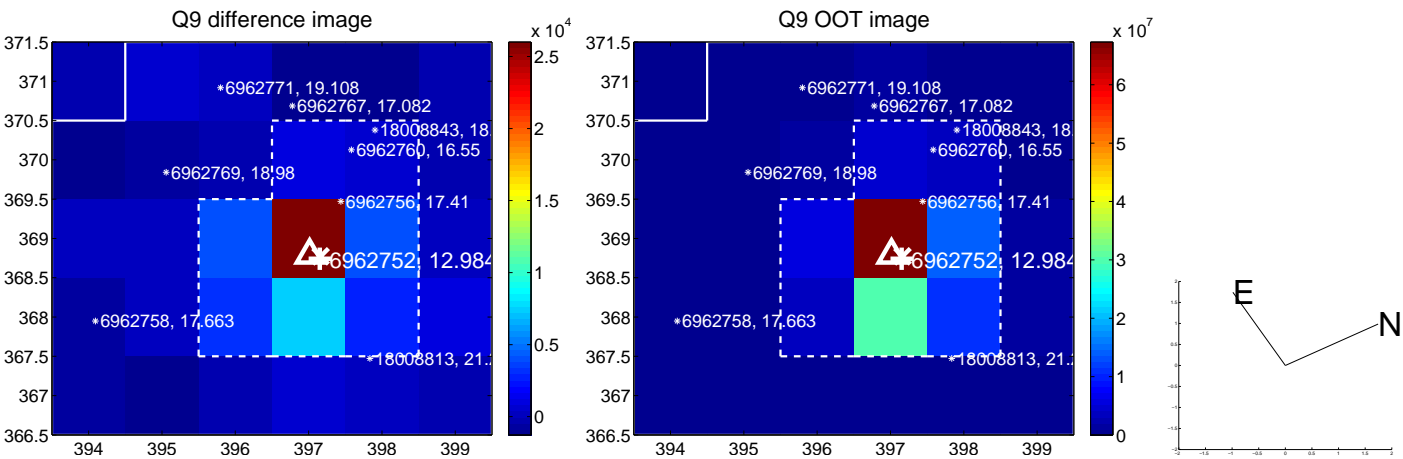
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



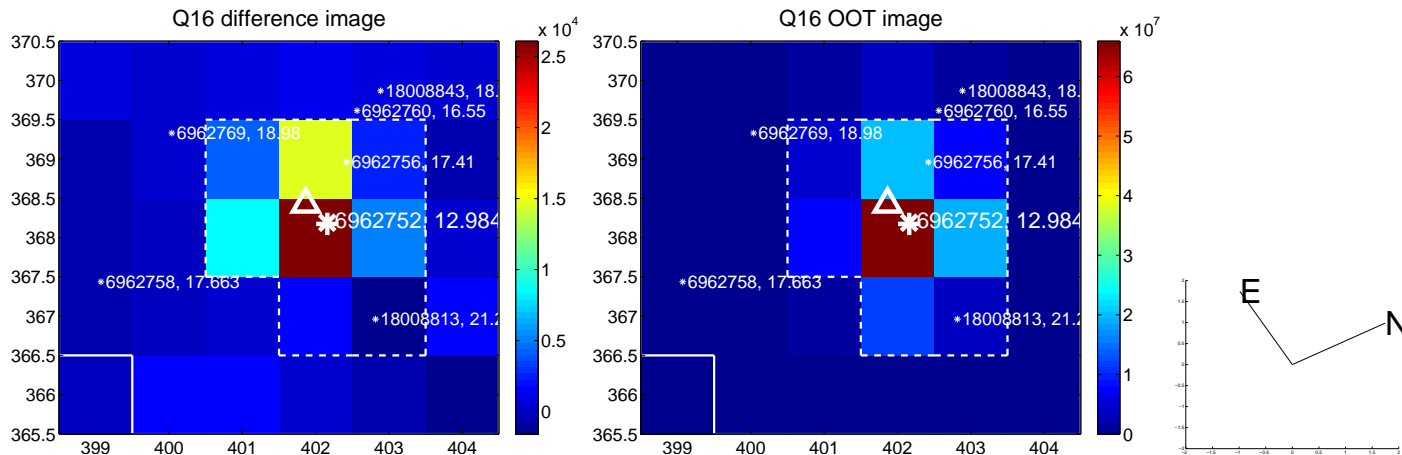
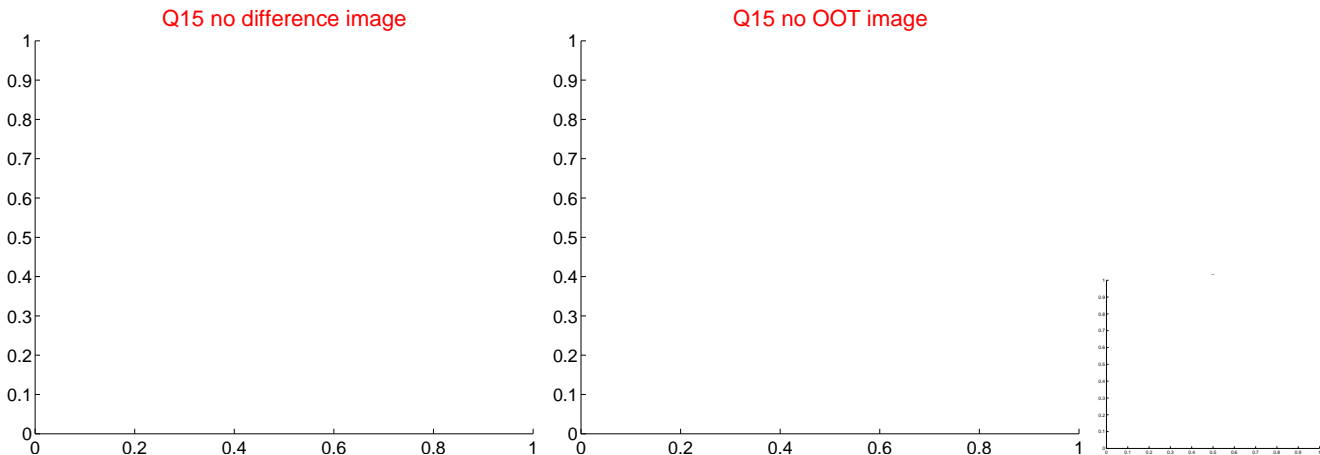
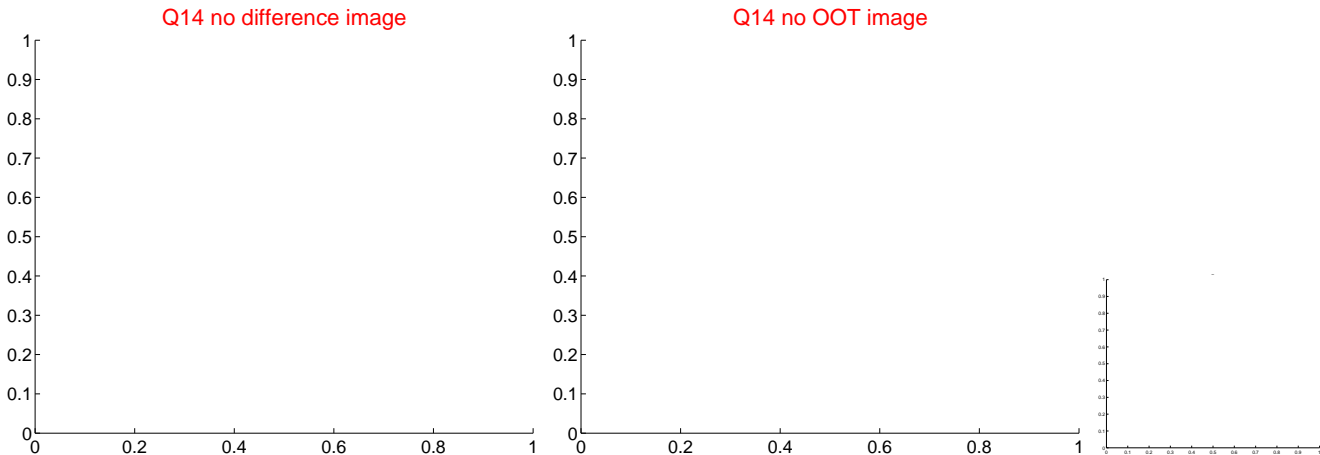
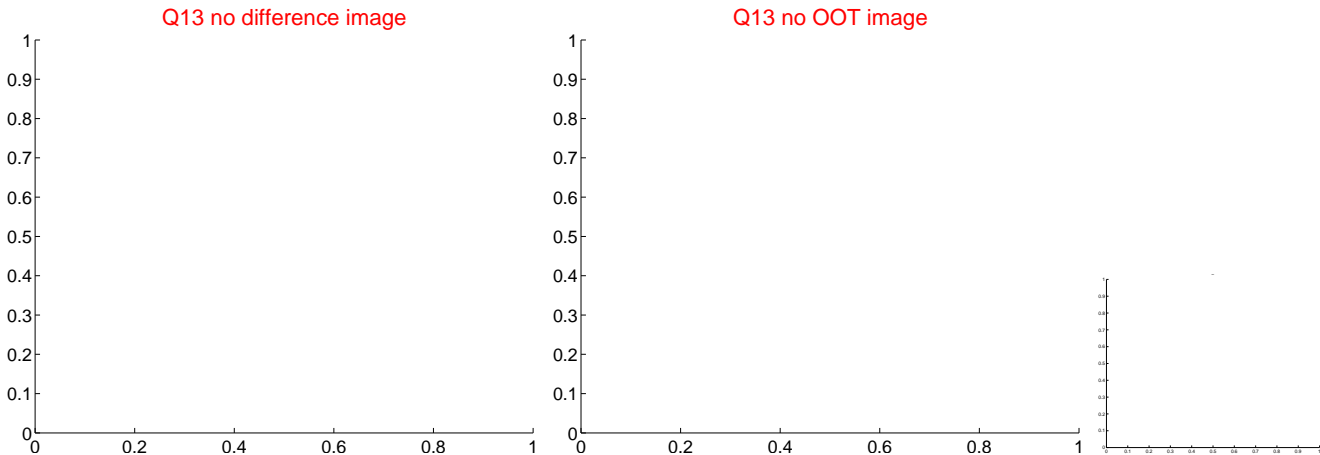
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



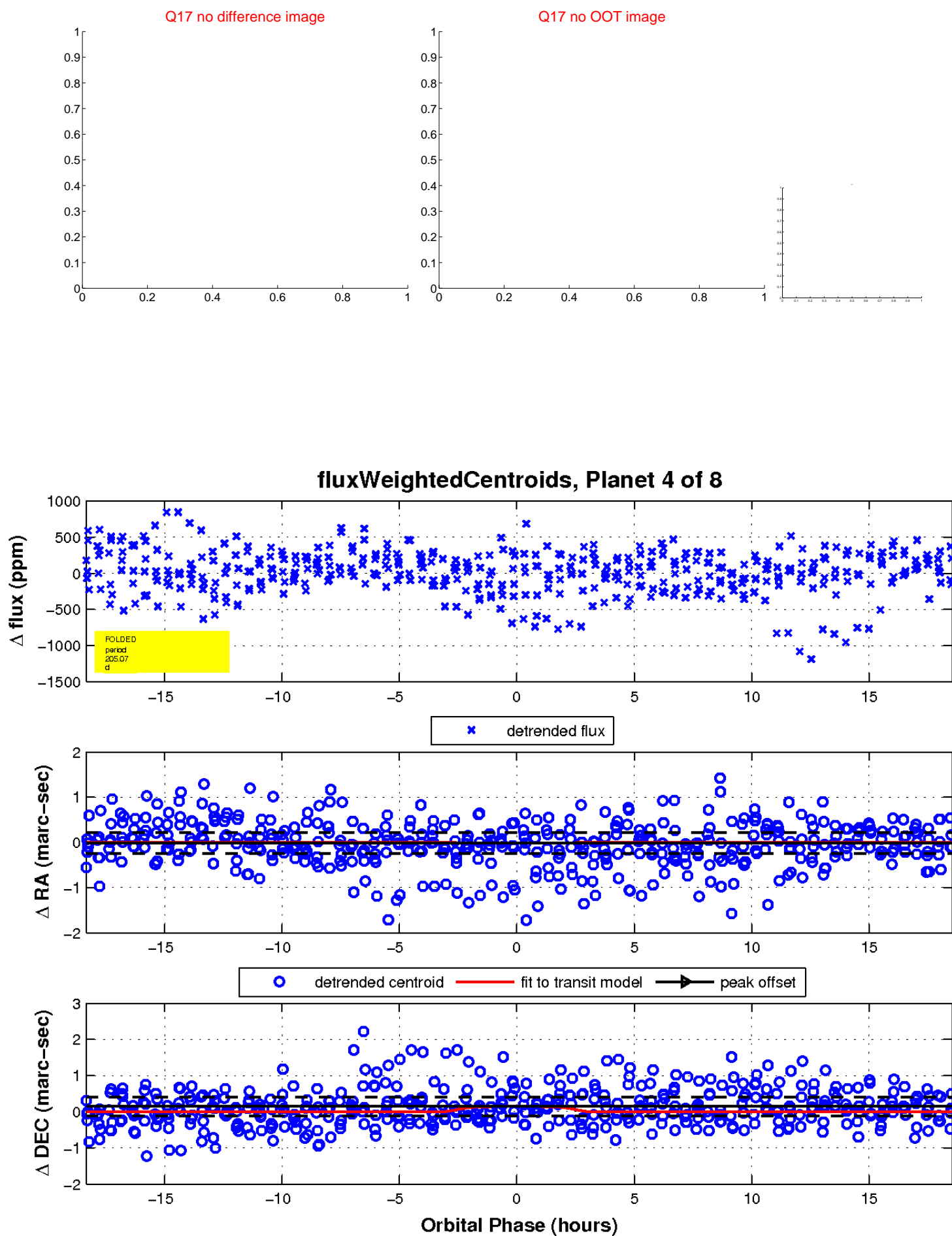
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

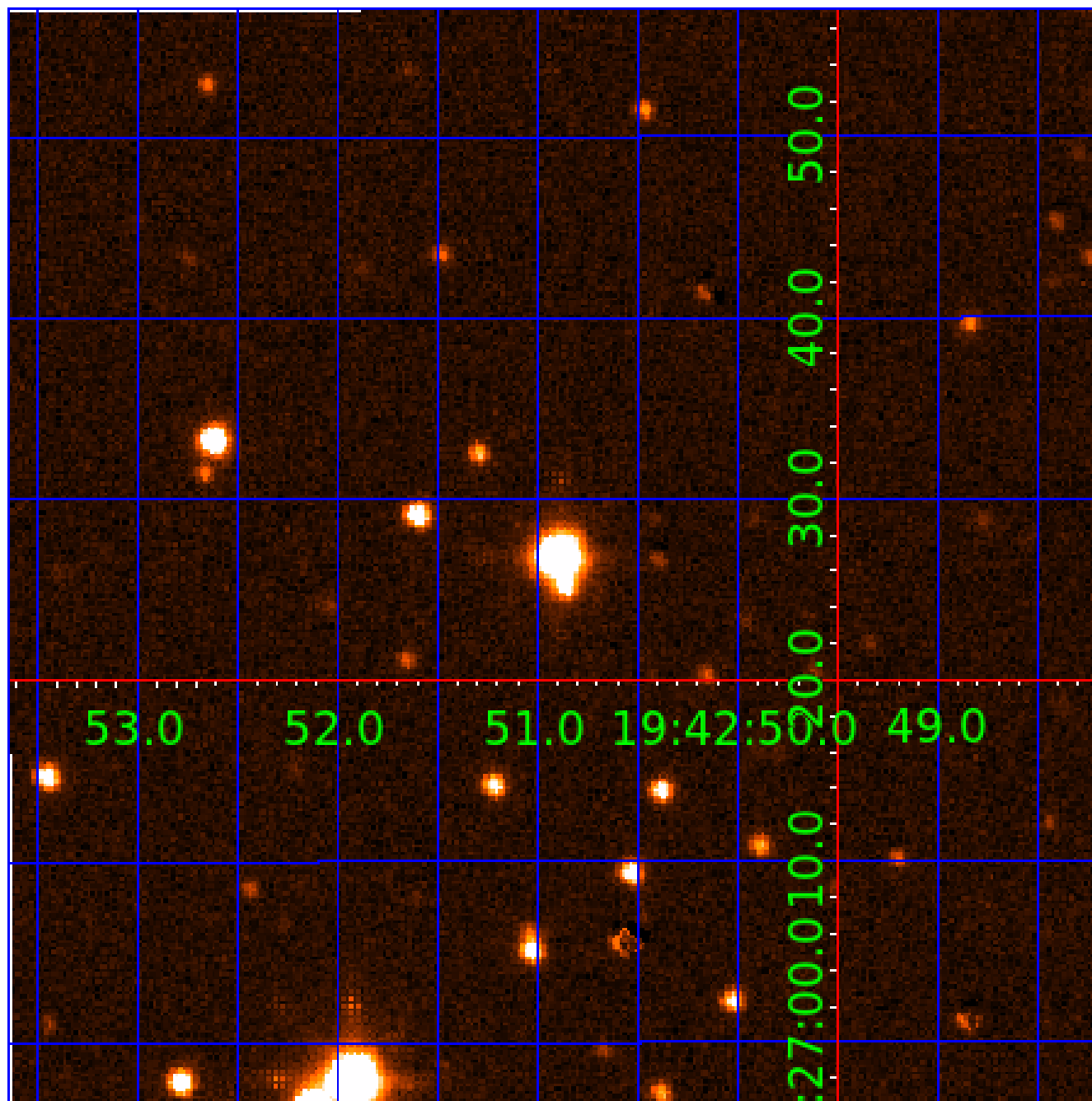


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006962752

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})
006962752-01	OBS	No	1.525805	132.313951	30.6	9.336	8.2	8.2	3.62	6472	2.02	22191.61
006962752-02	OBS	No	454.840022	149.798932	778.5	19.428	12.7	12.0	3.62	6472	11.73	11.14
006962752-03	OBS	No	50.295264	158.002948	453.5	5.008	11.8	10.4	3.62	6472	8.43	209.97
006962752-04	OBS	No	205.071687	266.848324	534.0	6.186	11.8	7.5	3.62	6472	10.28	32.23
006962752-05	OBS	No	35.607277	136.255074	560.2	7.981	11.3	11.0	3.62	6472	16.43	332.76
006962752-06	OBS	No	99.292648	156.578330	405.3	12.137	8.7	9.3	3.62	6472	8.75	84.78
006962752-07	OBS	No	57.279682	184.351622	307.5	14.332	9.0	7.6	3.62	6472	8.34	176.54

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006962752-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006962752-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006962752-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT

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

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

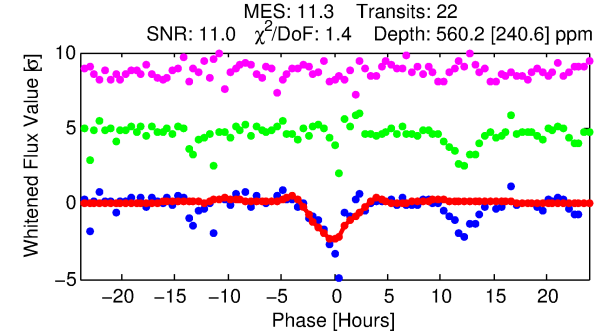
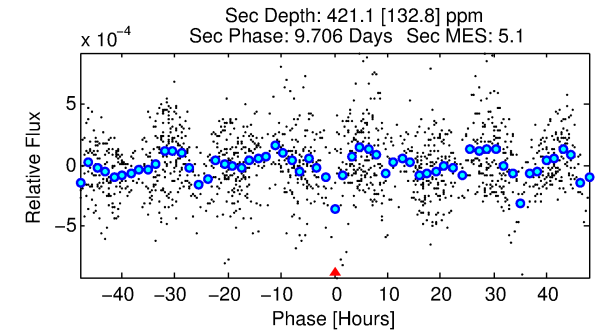
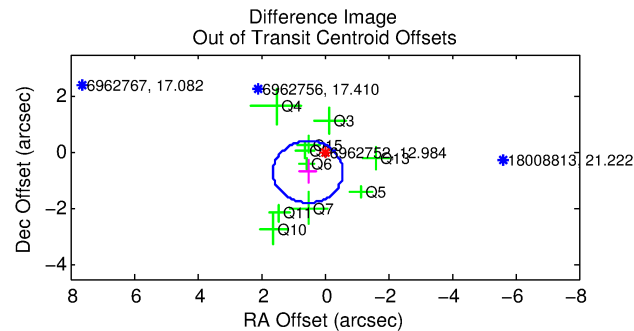
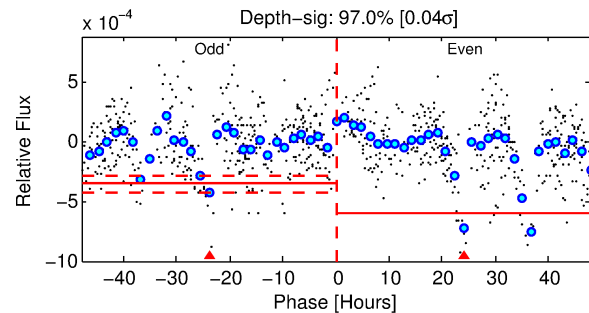
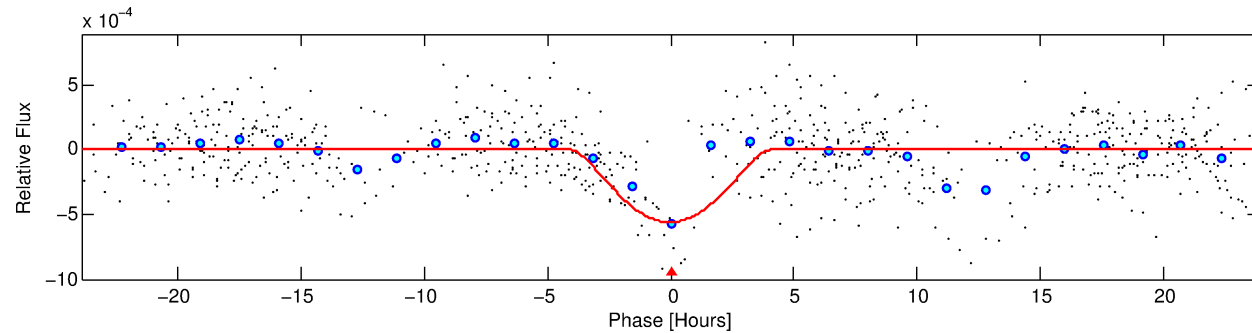
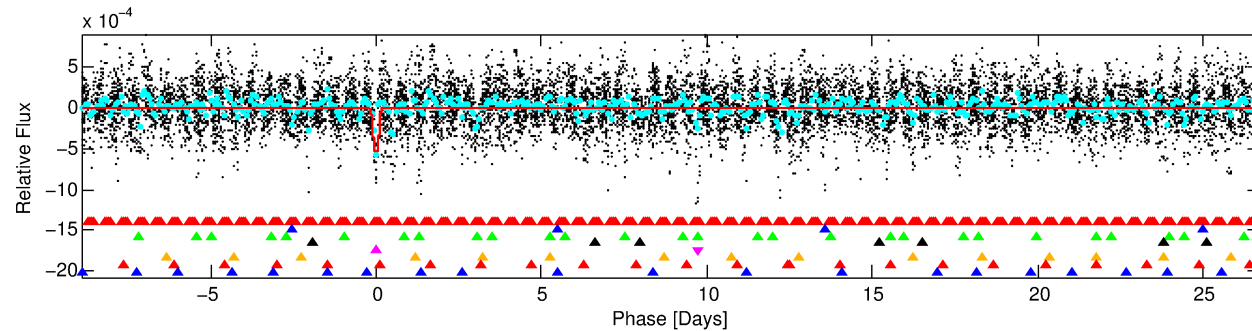
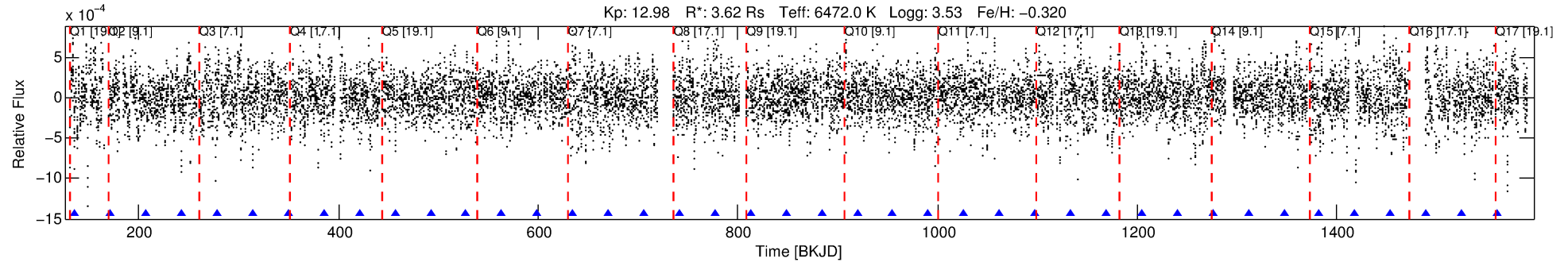
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006962752-05

No Significant Match Found

DV One-Page Summary

KIC: 6962752 Candidate: 5 of 8 Period: 35.607 d



DV Fit Results:

Period = 35.60728 [0.00067] d
Epoch = 136.2551 [0.0153] BKJD
Rp/R* = 0.0416 [0.0837]
a/R* = 9.99 [4.81]
b = 1.00 [0.11]
Seff = 332.76 [197.02]
Teq = 1089 [161] K
Rp = 16.43 [33.73] Re
a = 0.2488 [0.0924] AU
Ag = 53.14 [216.87] [0.24σ]
Teffp = 4546 [4593] K [0.75σ]

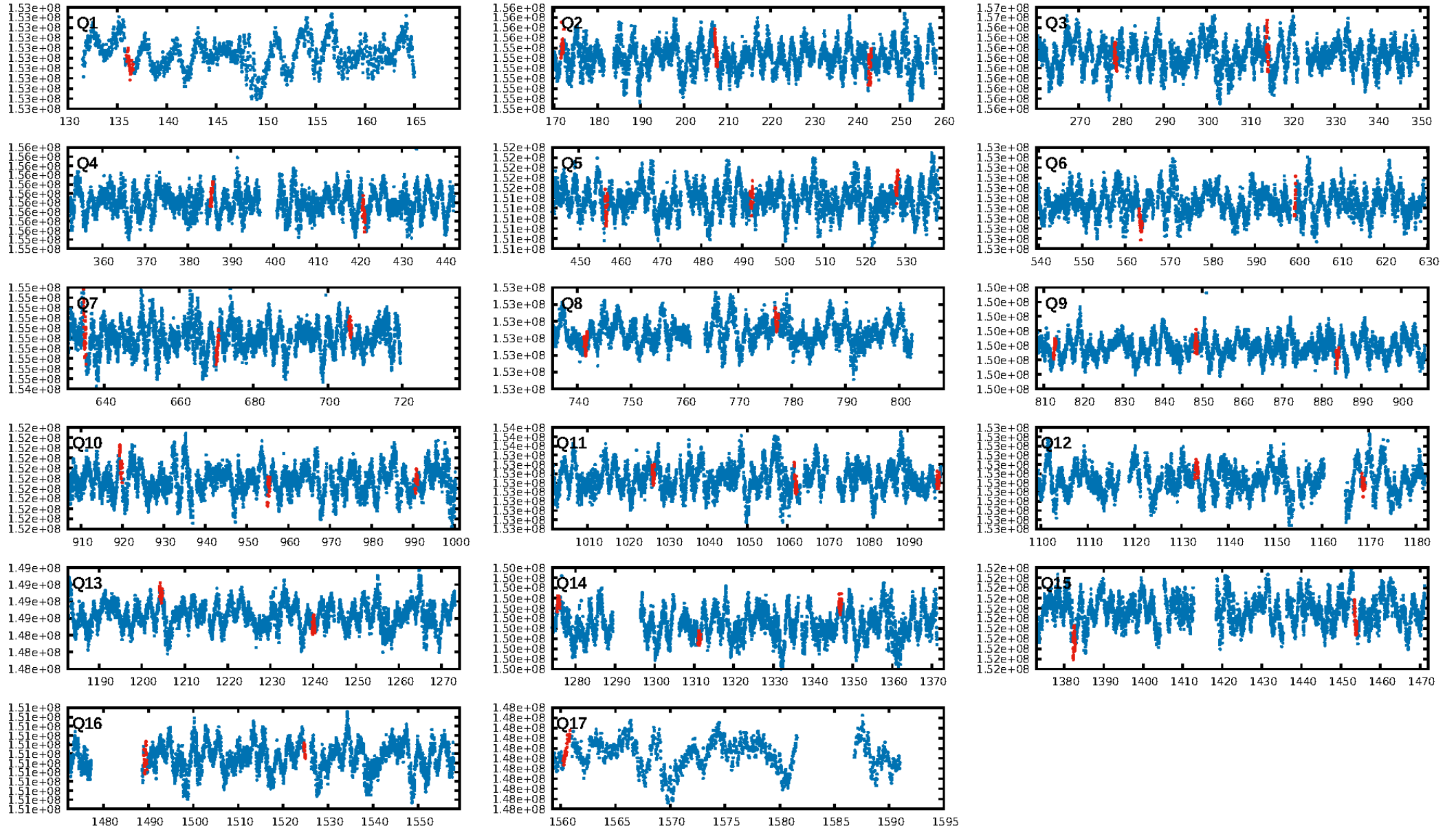
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [66.59σ]
LongPeriod-sig: 100.0% [37.41σ]
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [21/21]
GhostDiagnostic-chr: -0.5462
Centroid-sig: 3.5%
Centroid-so: 0.259 arcsec [1.87σ]
OotOffset-rm: 0.868 arcsec [2.37σ]
KicOffset-rm: 0.865 arcsec [1.87σ]
OotOffset-st: 2/4/2/2 [10]
KicOffset-st: 2/4/2/2 [10]
DiffImageQuality-fgm: 0.50 [5/10]
DiffImageOverlap-fno: 0.00 [0/15]

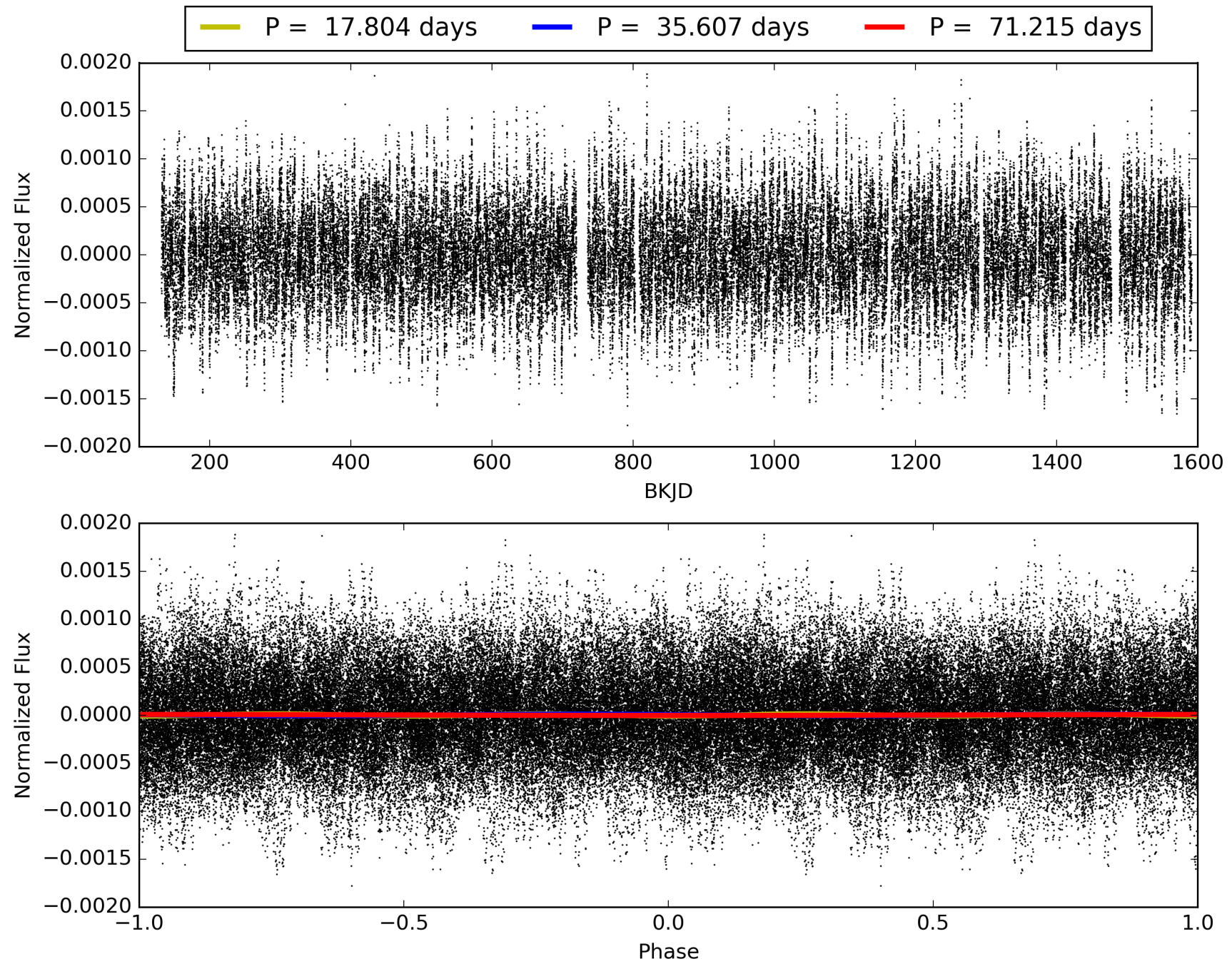
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 08:18:52 Z

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

TCE 006962752-05, PDC Light Curves

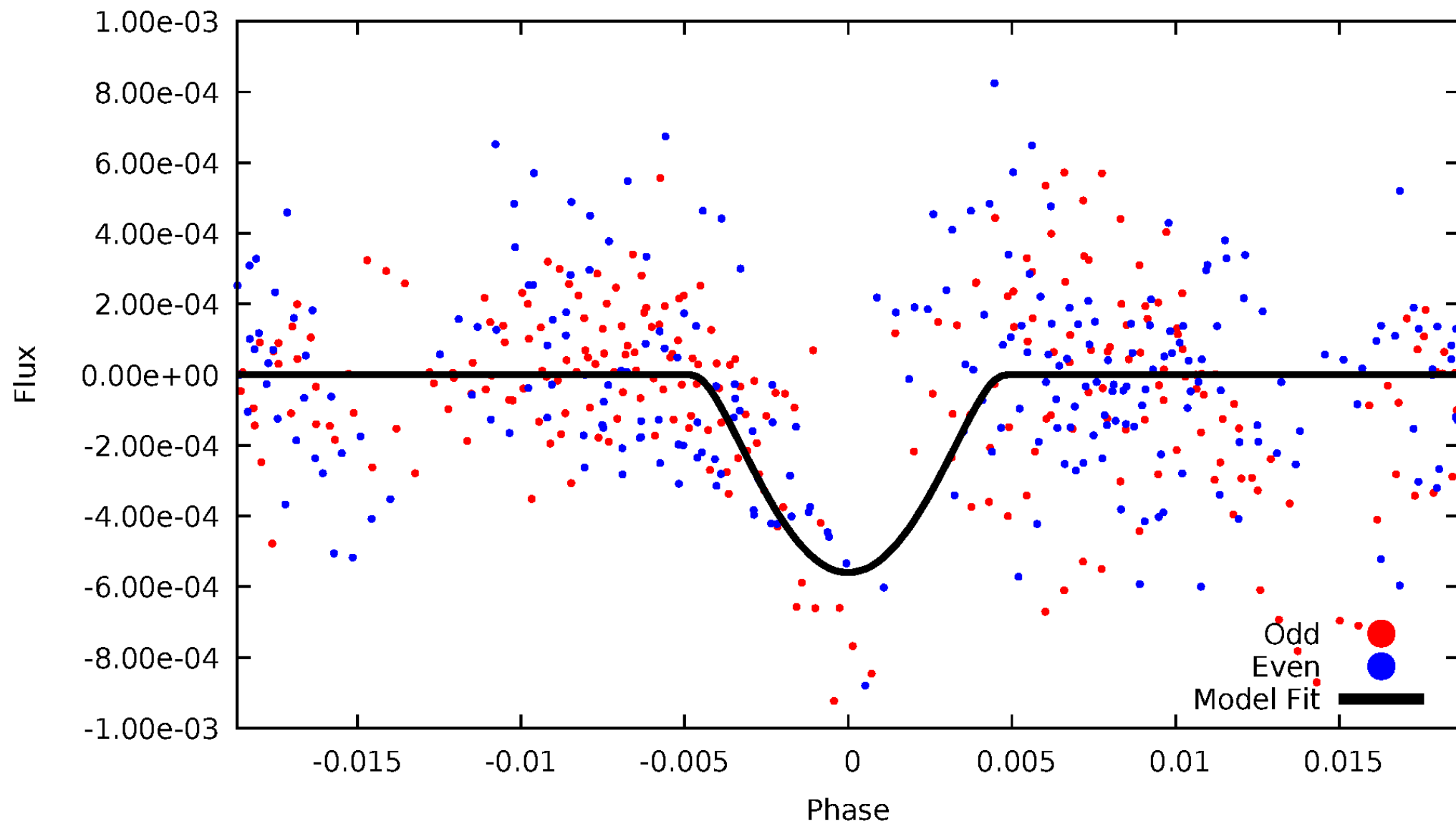


TCE 006962752-05



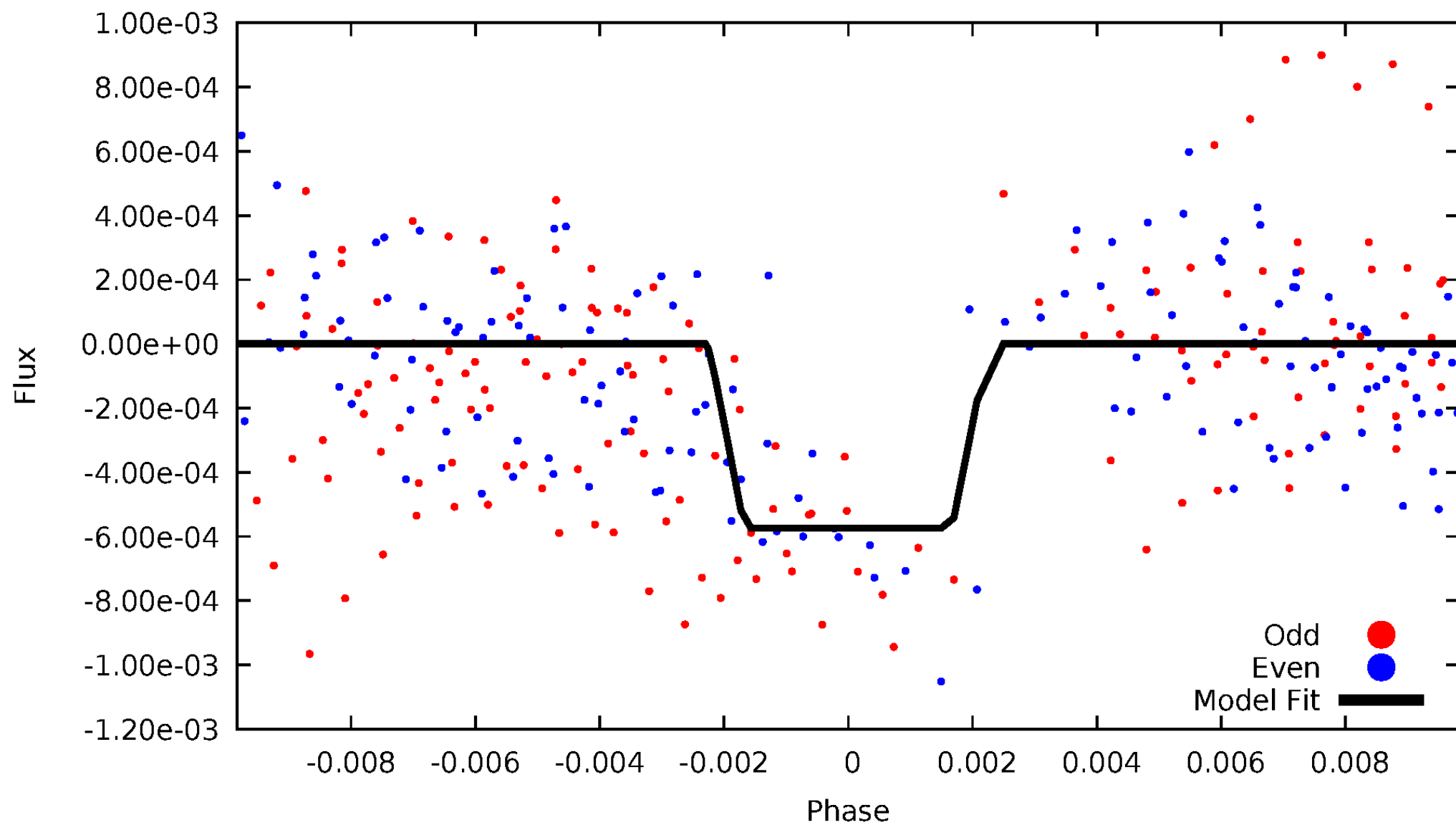
DV Odd/Even

TCE 006962752-05



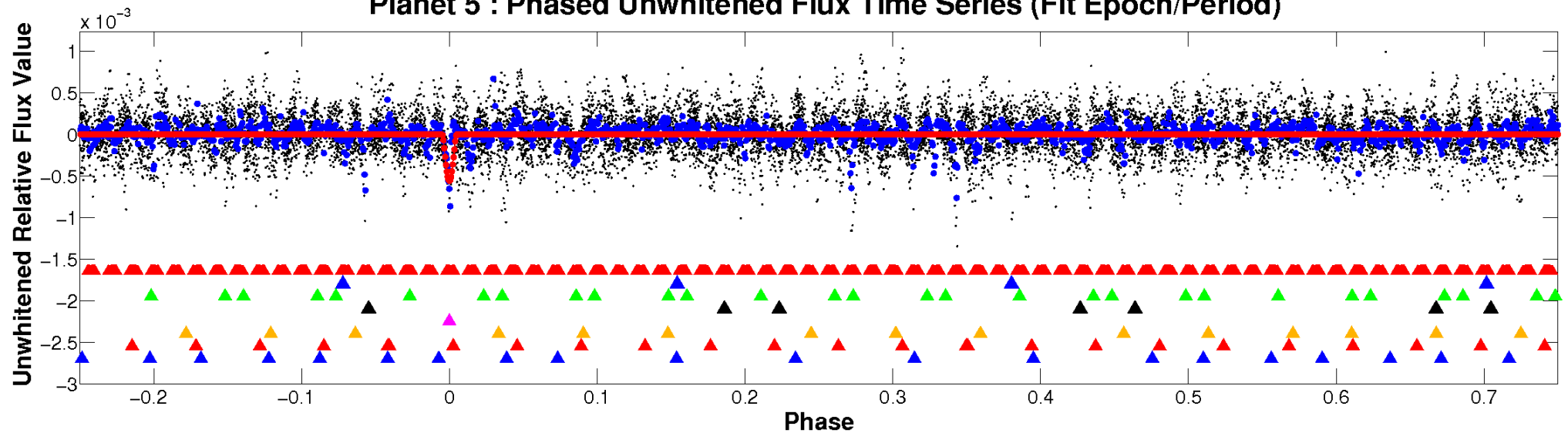
ALT Odd/Even

TCE 006962752-05

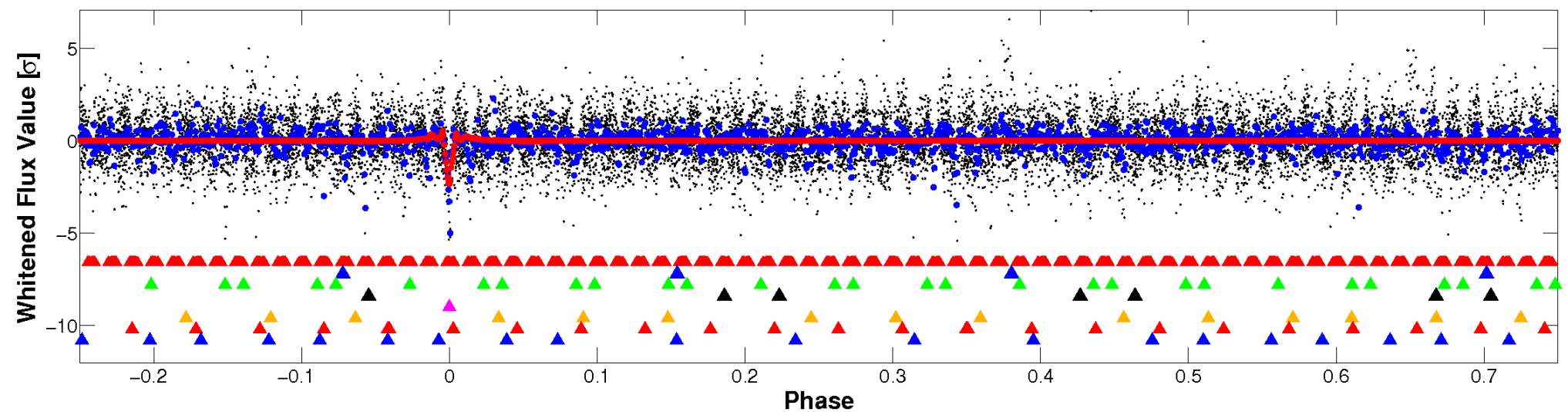


Non-Whitened Vs. Whitened Light Curve

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

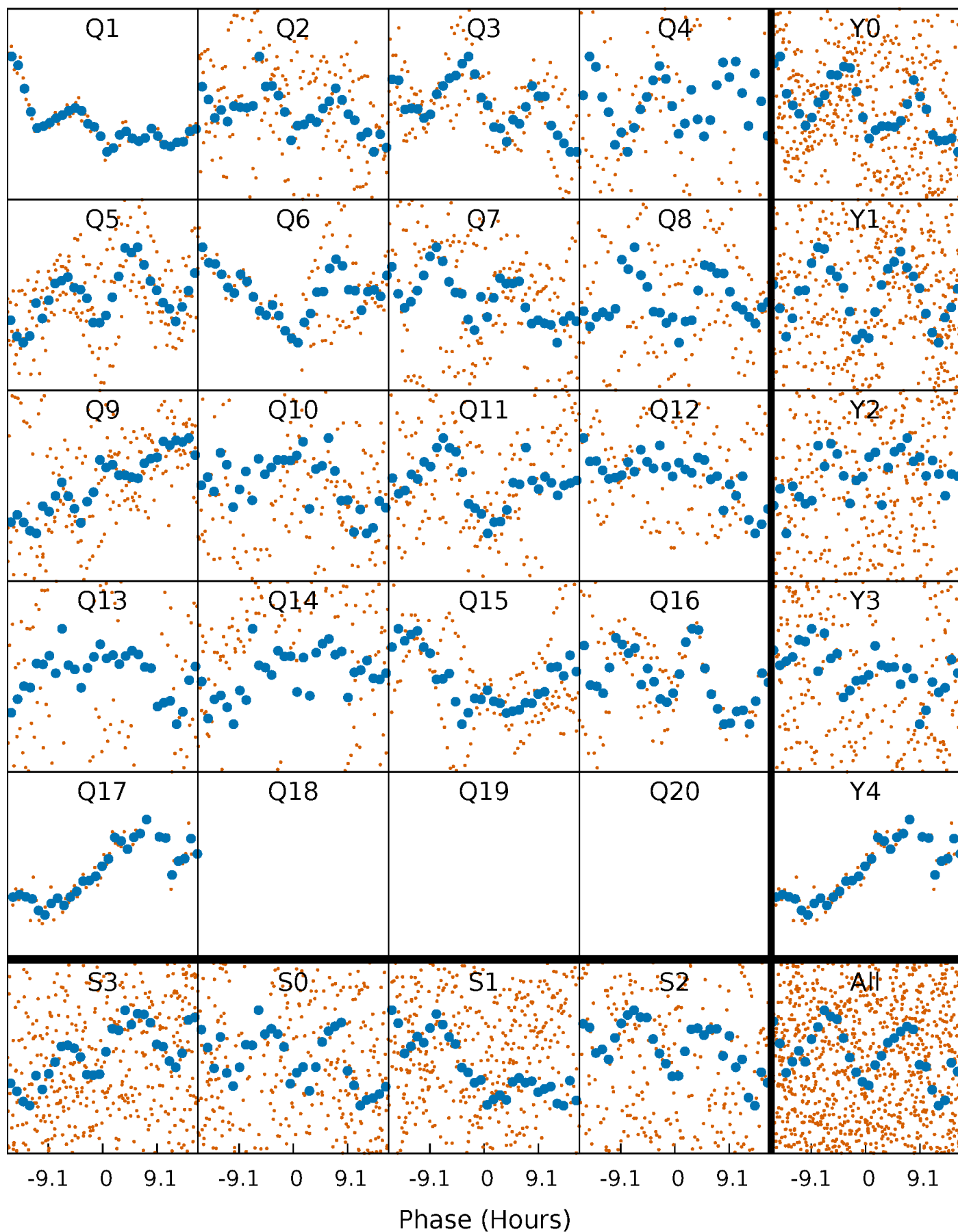


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



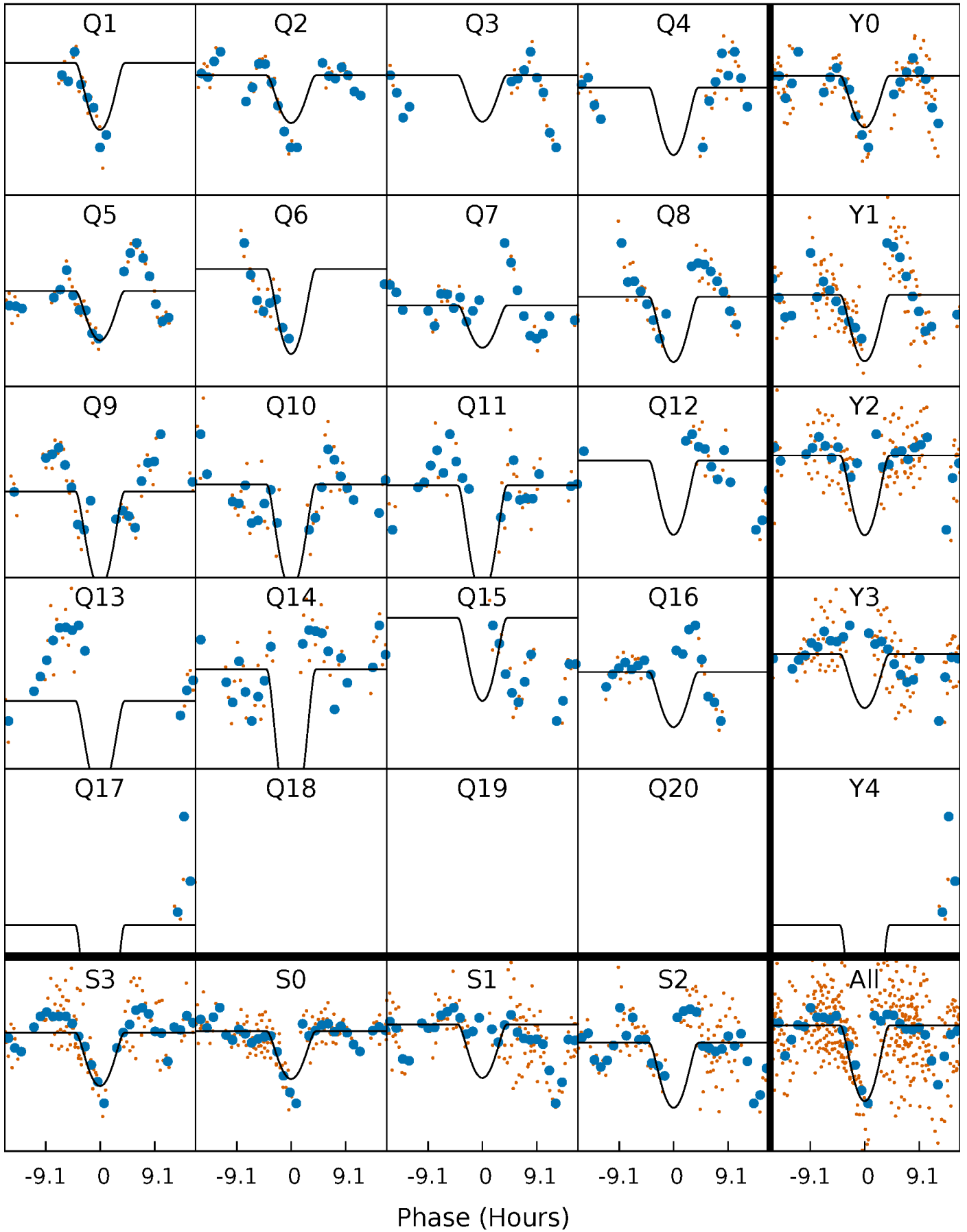
PDC Quarter-Phased Transit Curves

TCE 006962752-05 $P = 35.607277$ Days $T_0 = 136.255074$ (BKJD)



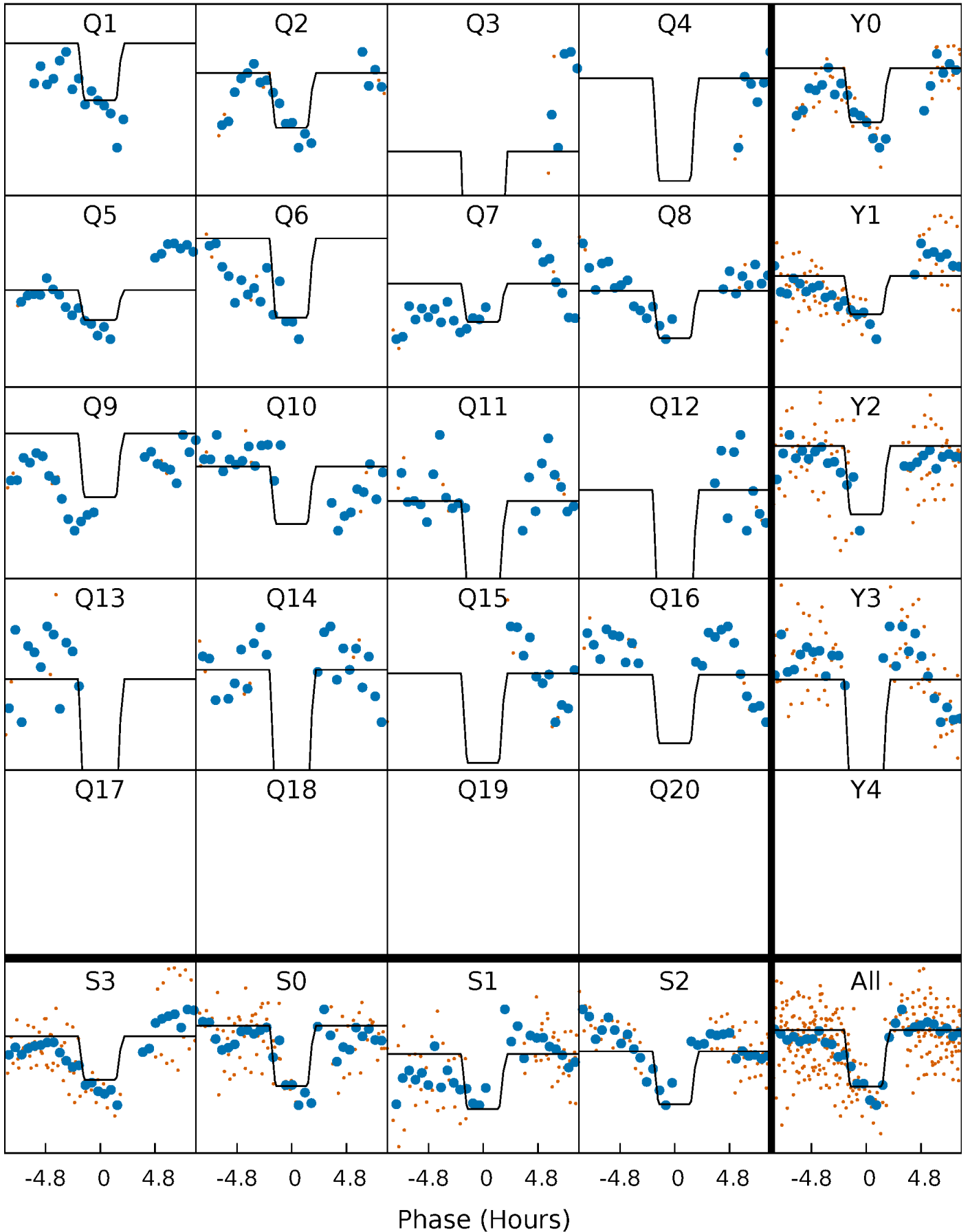
DV Quarter-Phased Transit Curves

TCE 006962752-05 P= 35.607277 Days $T_0=136.255074$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

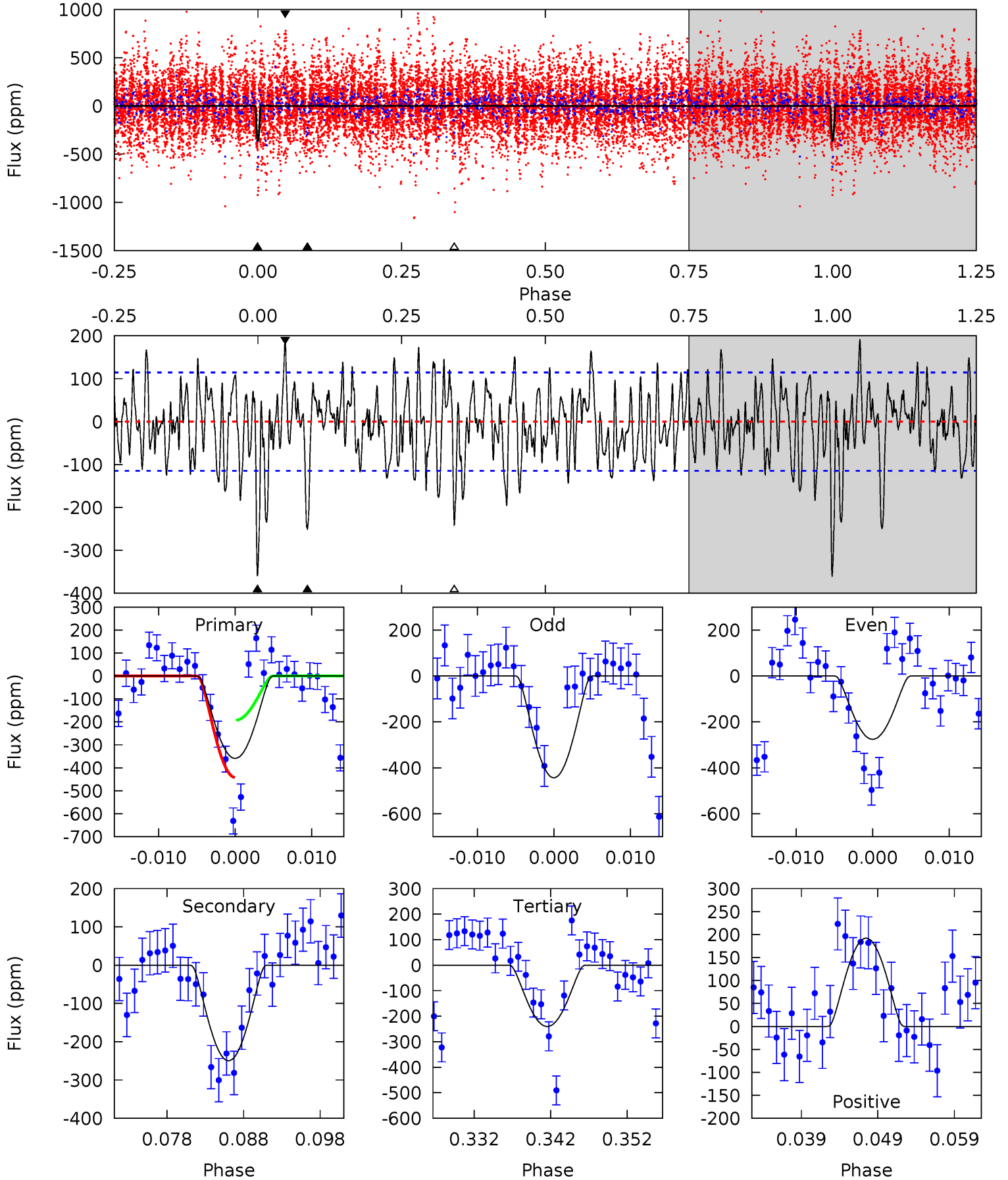
TCE 006962752-05 $P = 35.607195$ Days $T_0 = 136.220134$ (BKJD)



DV Model-Shift Uniqueness Test

006962752-05, $P = 35.607277$ Days, $E = 100.647797$ Days

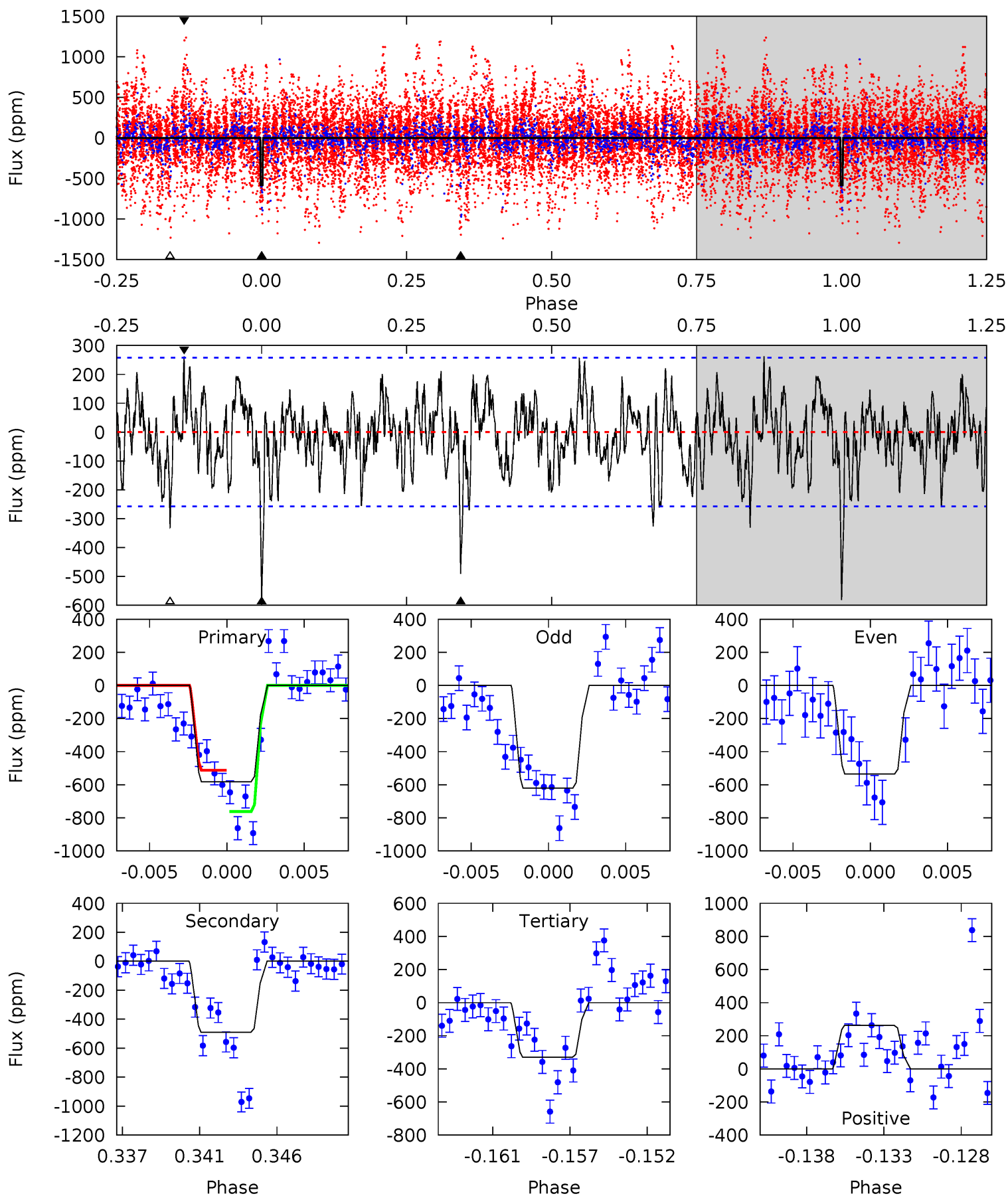
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.8	10.9	10.5	8.43	5.03	2.58	3.09	5.22	7.33	0.41	2.52	3.68	0.20	0.35	5.27



Alt Model-Shift Uniqueness Test

006962752-05, P = 35.607195 Days, E = 100.612939 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.7	9.85	6.63	5.26	5.17	2.82	1.83	5.04	6.41	3.22	4.59	0.86	0.95	0.31	2.23



Stellar Parameters For KIC 006962752

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6472^{+176}_{-176}	$3.530^{+0.337}_{-0.112}$	$-0.320^{+0.350}_{-0.300}$	$3.620^{+0.483}_{-1.448}$	$1.621^{+0.212}_{-0.393}$	$0.048^{+0.128}_{-0.017}$
	+3%/-3%	+10%/-3%	+109%/-94%	+13%/-40%	+13%/-24%	+267%/-36%
Source	PHO1	FLK73	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 006962752-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-250 ± 23	$27.09^{+25.97}_{-18.24}$	1501^{+87}_{-139}	3475^{+1713}_{-632}	12^{+88}_{-9}
Alt.	-491 ± 50	$23.93^{+26.72}_{-16.92}$	1501^{+85}_{-141}	4065^{+2779}_{-890}	29^{+322}_{-23}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

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

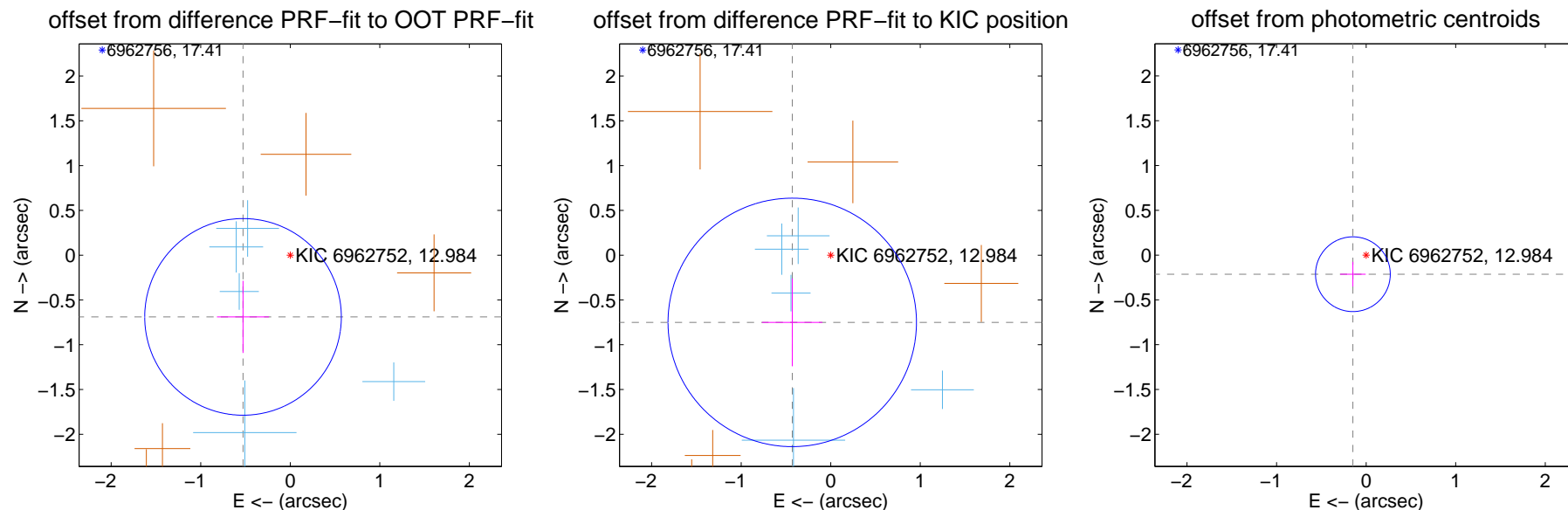
DV Centroid Data

Supplemental centroid analysis for 006962752-05. Kepler magnitude: 12.98. Transit SNR 11.02

There are 5 quarters with good PRF difference image offsets

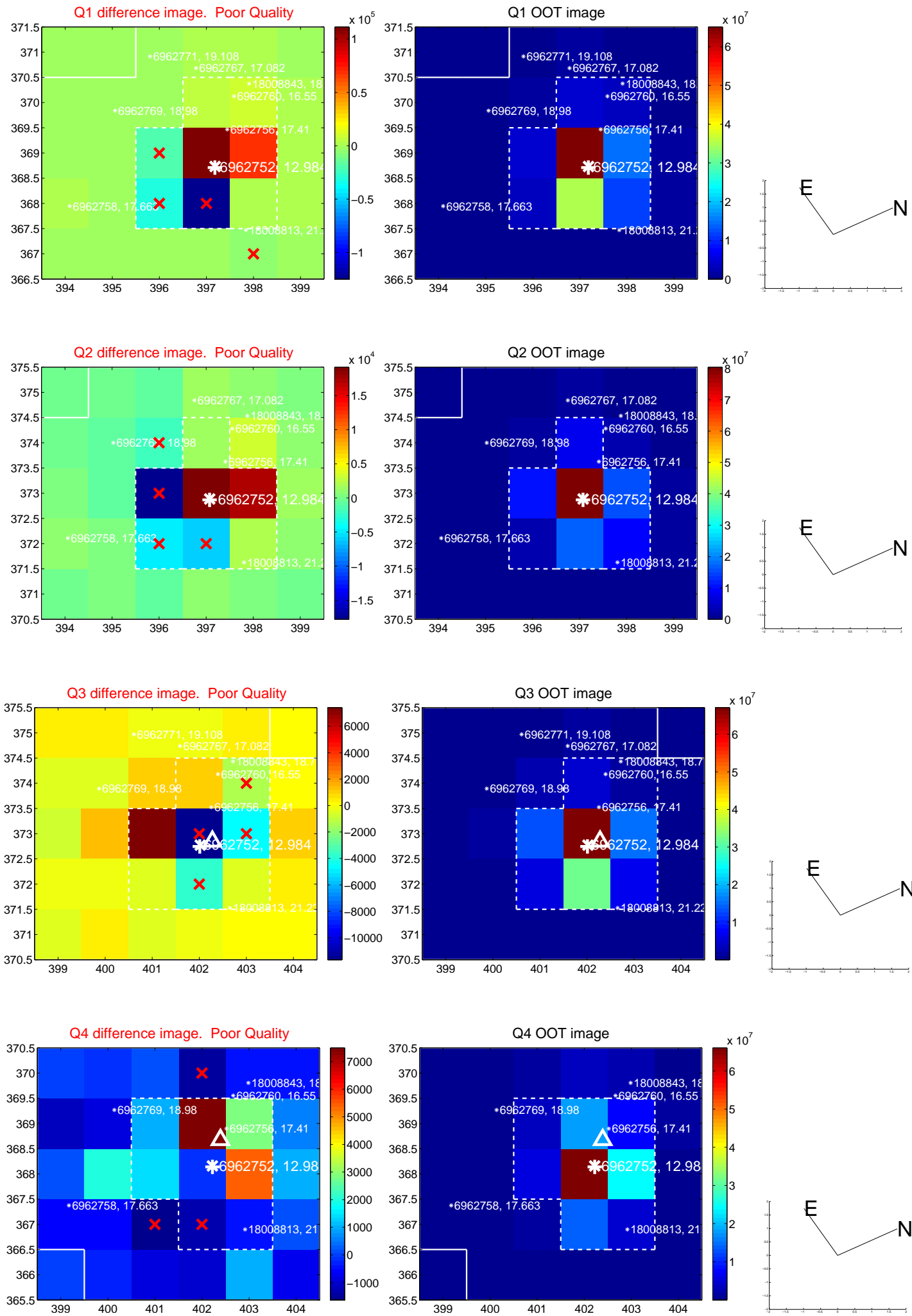
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.868 ± 0.366	2.37	0.527 ± 0.291	-0.689 ± 0.403
PRF-fit source offset from KIC position	0.865 ± 0.462	1.87	0.430 ± 0.337	-0.751 ± 0.490
photometric centroid source offset	0.26 ± 0.14	1.87	0.15 ± 0.14	-0.21 ± 0.14

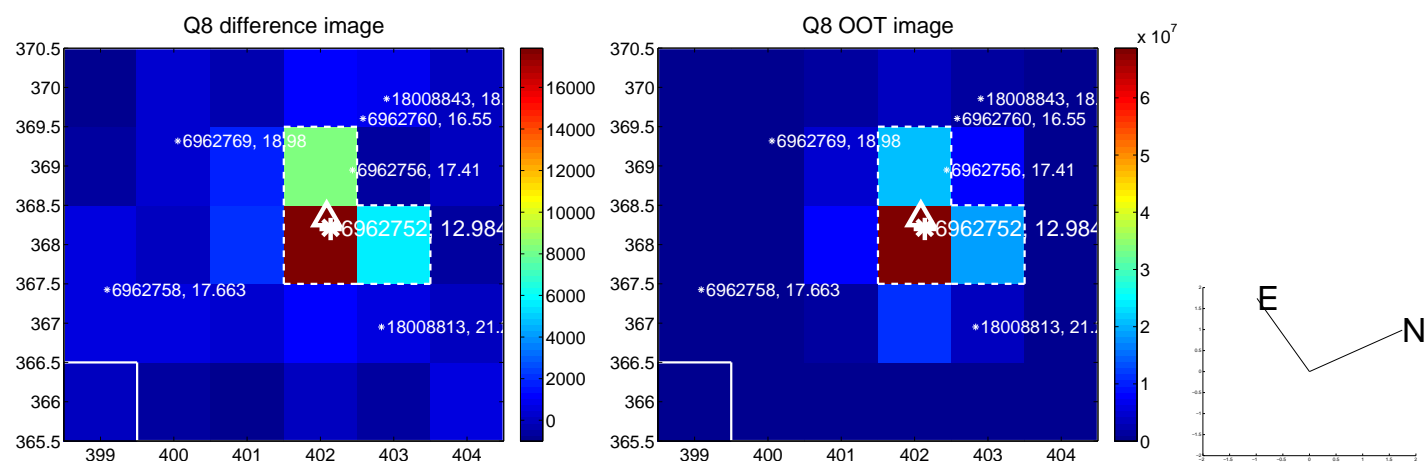
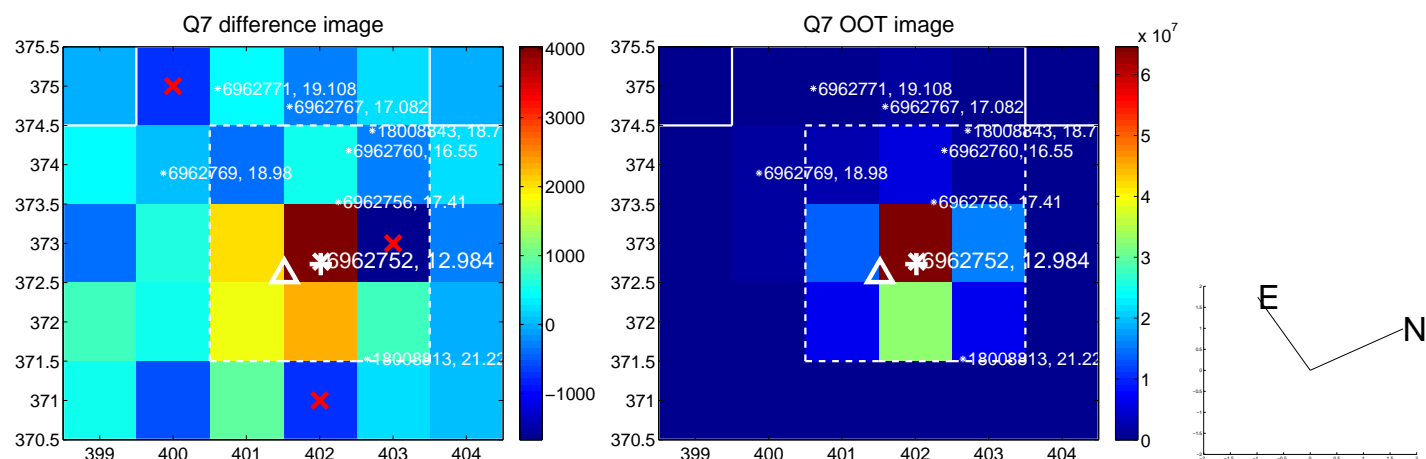
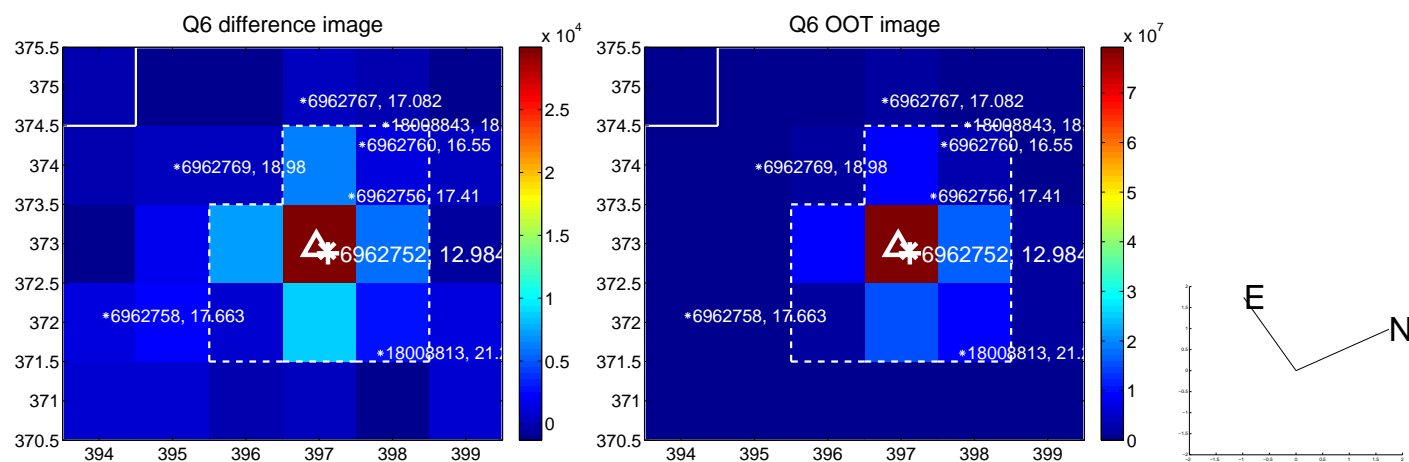
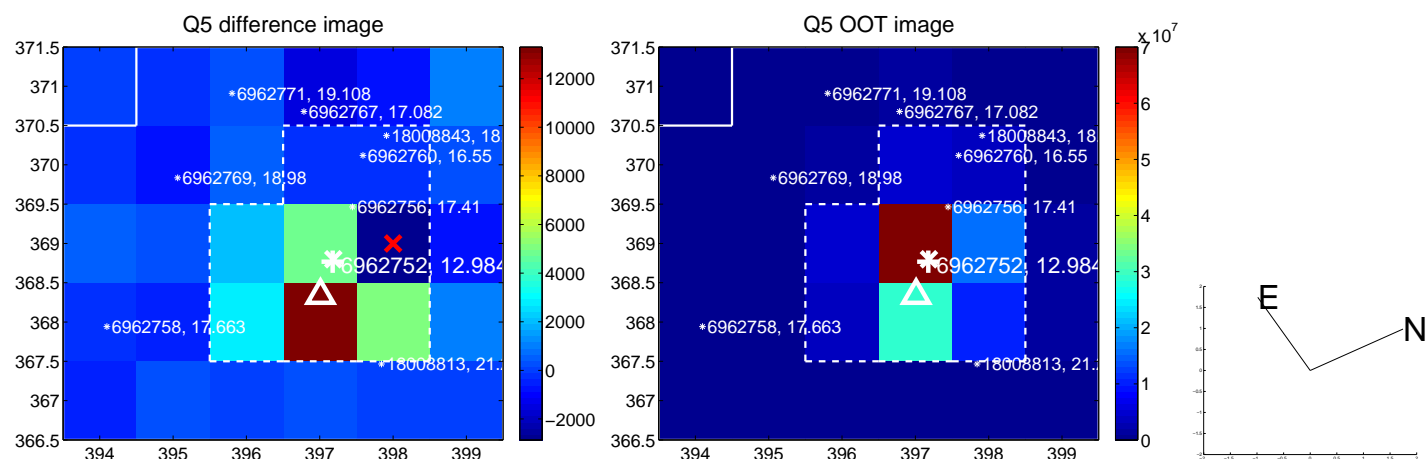


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

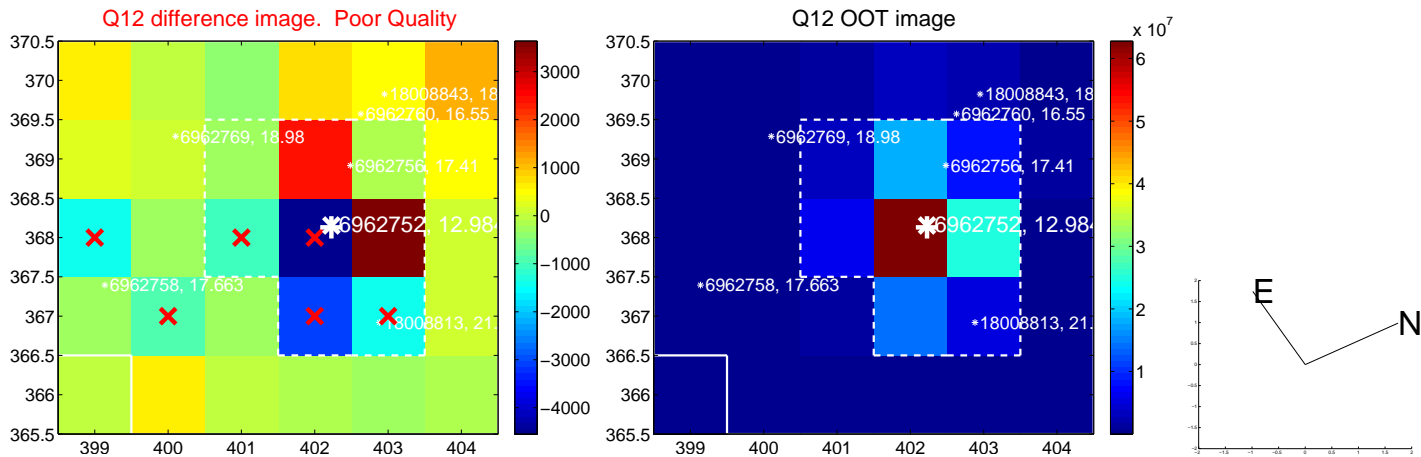
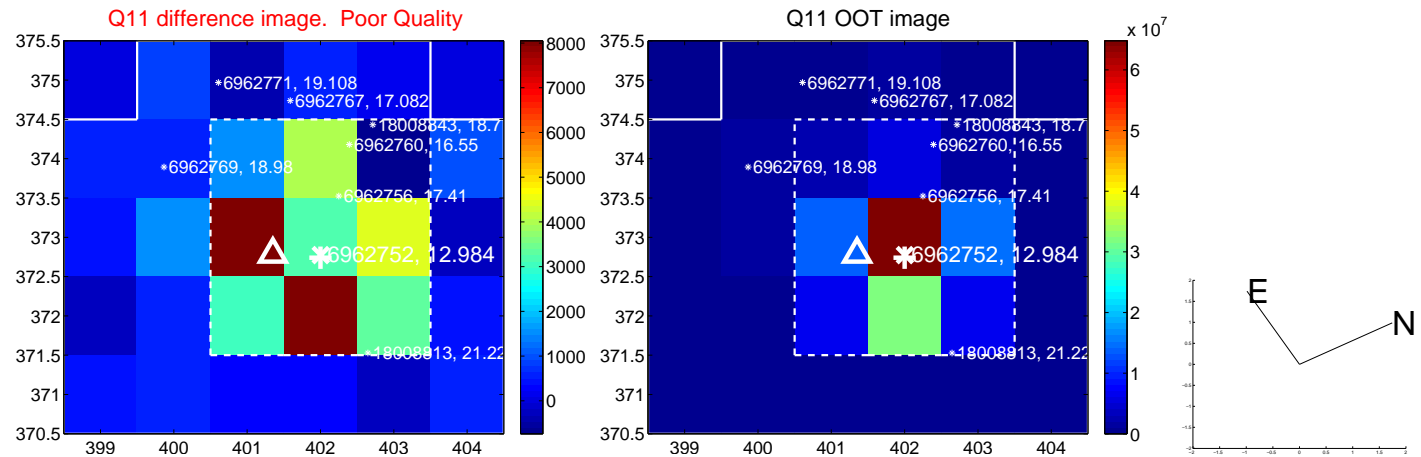
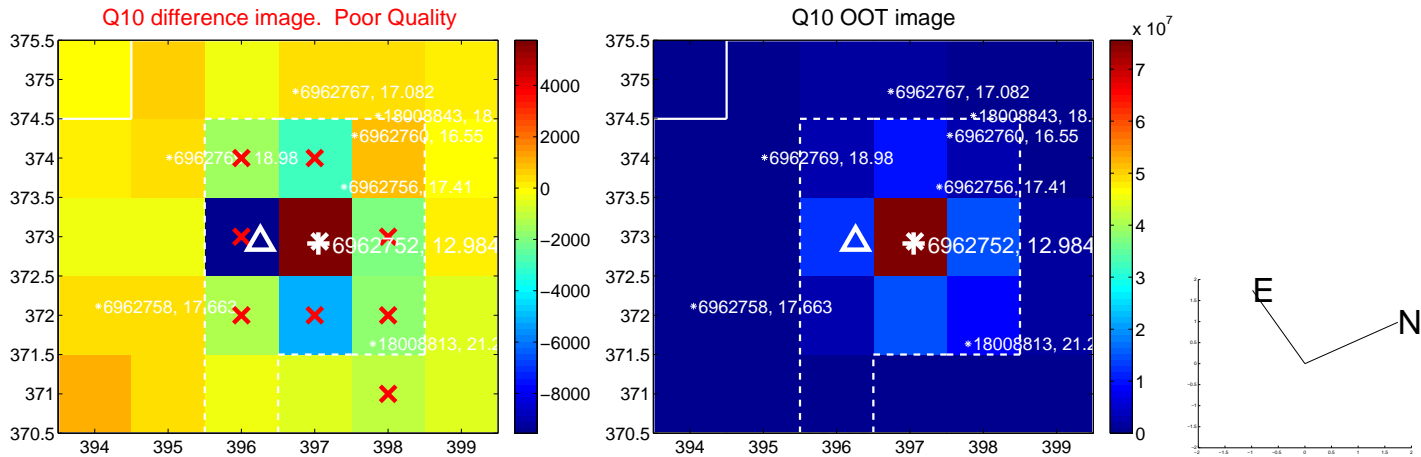
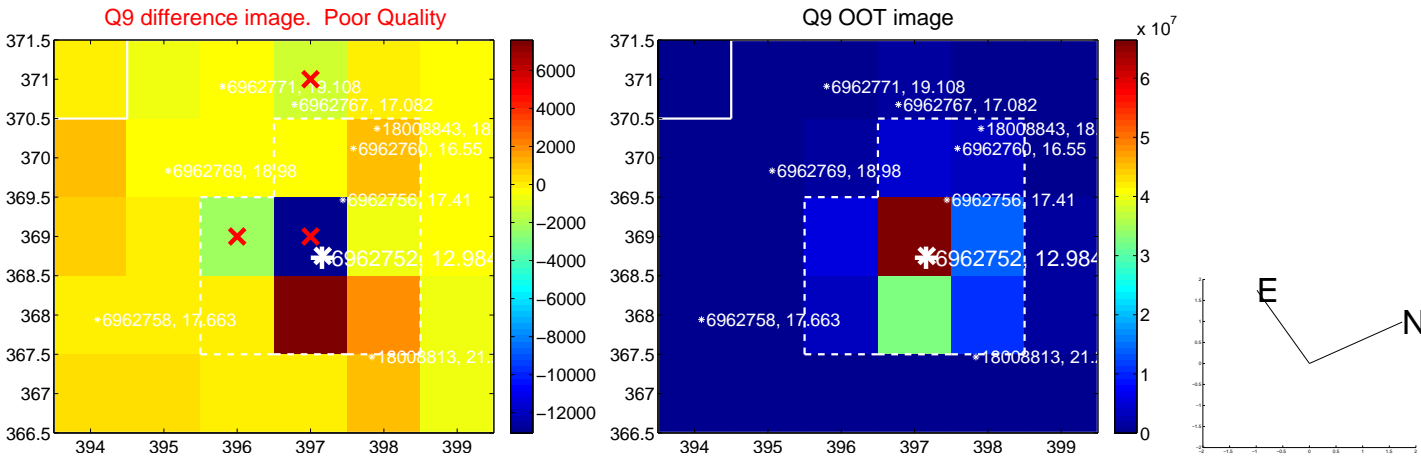
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



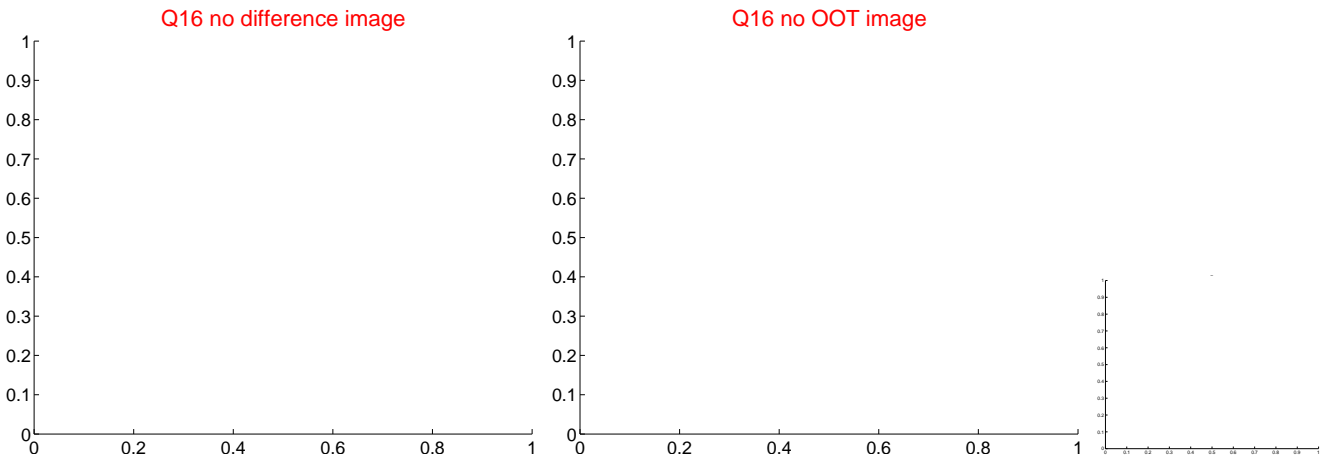
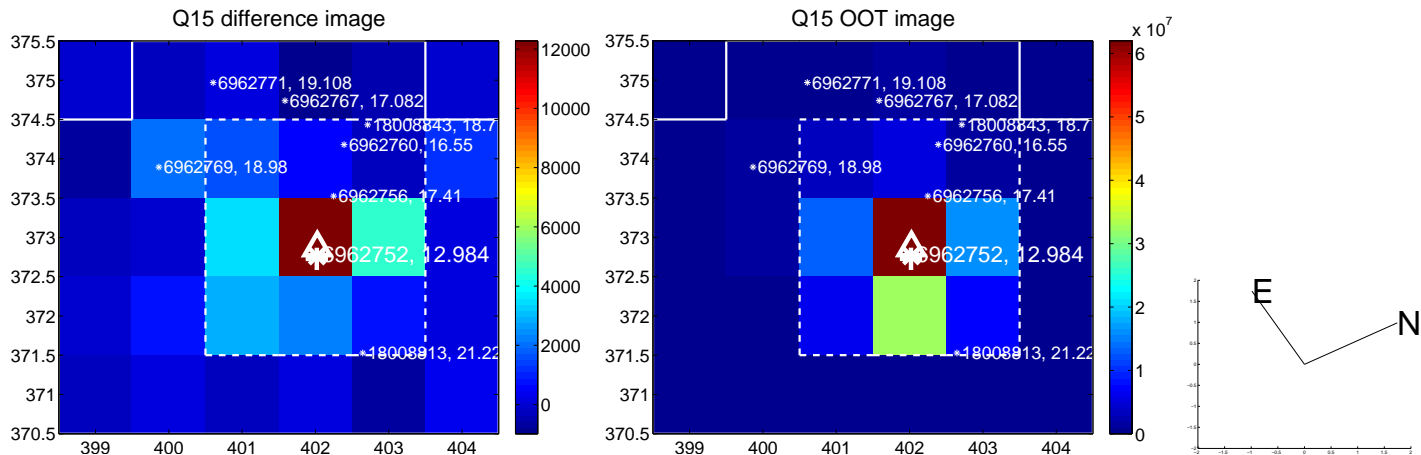
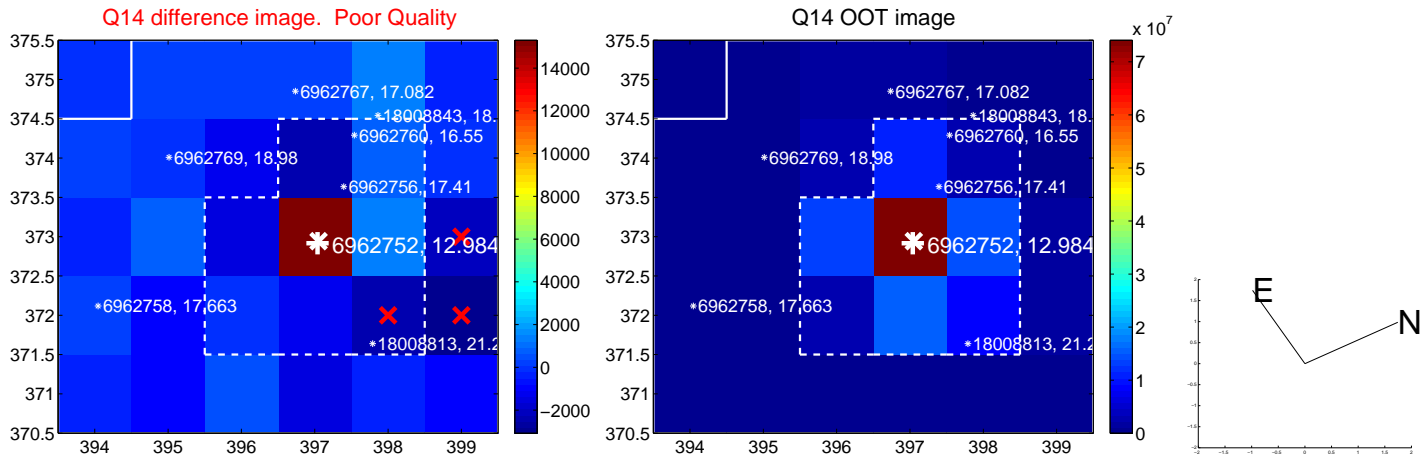
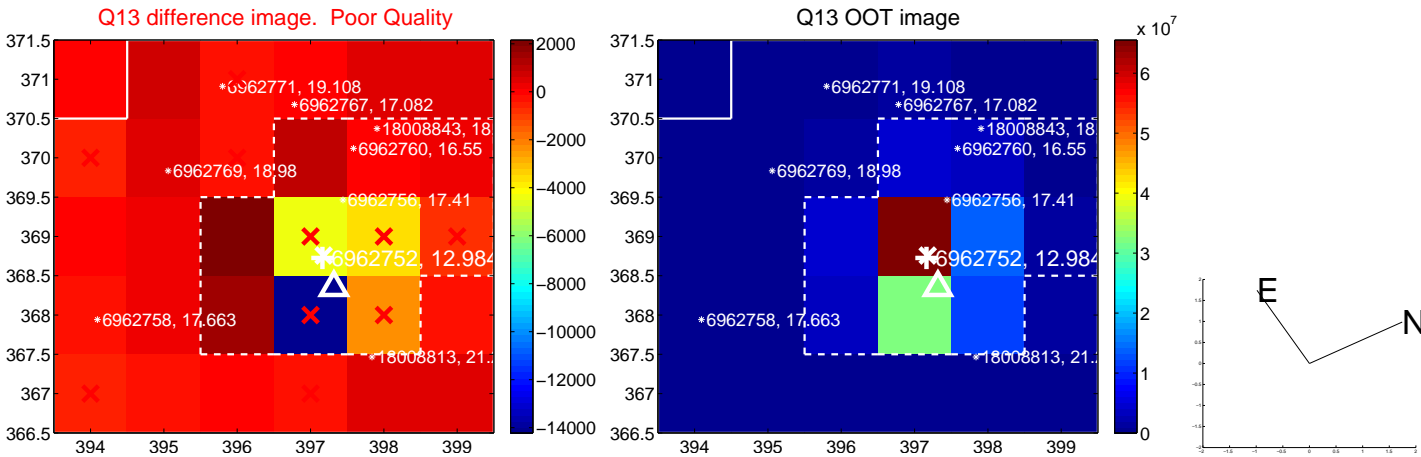
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



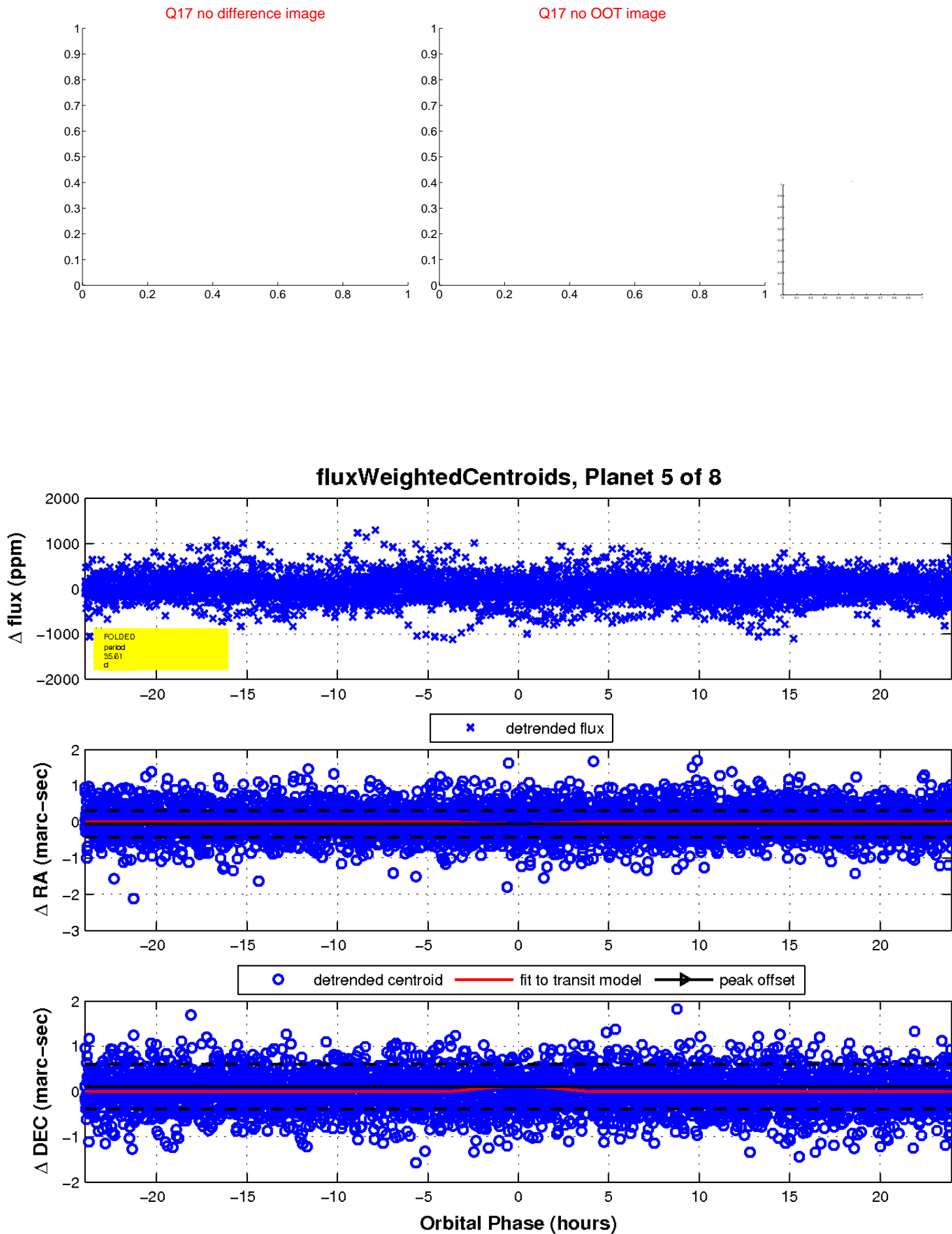
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



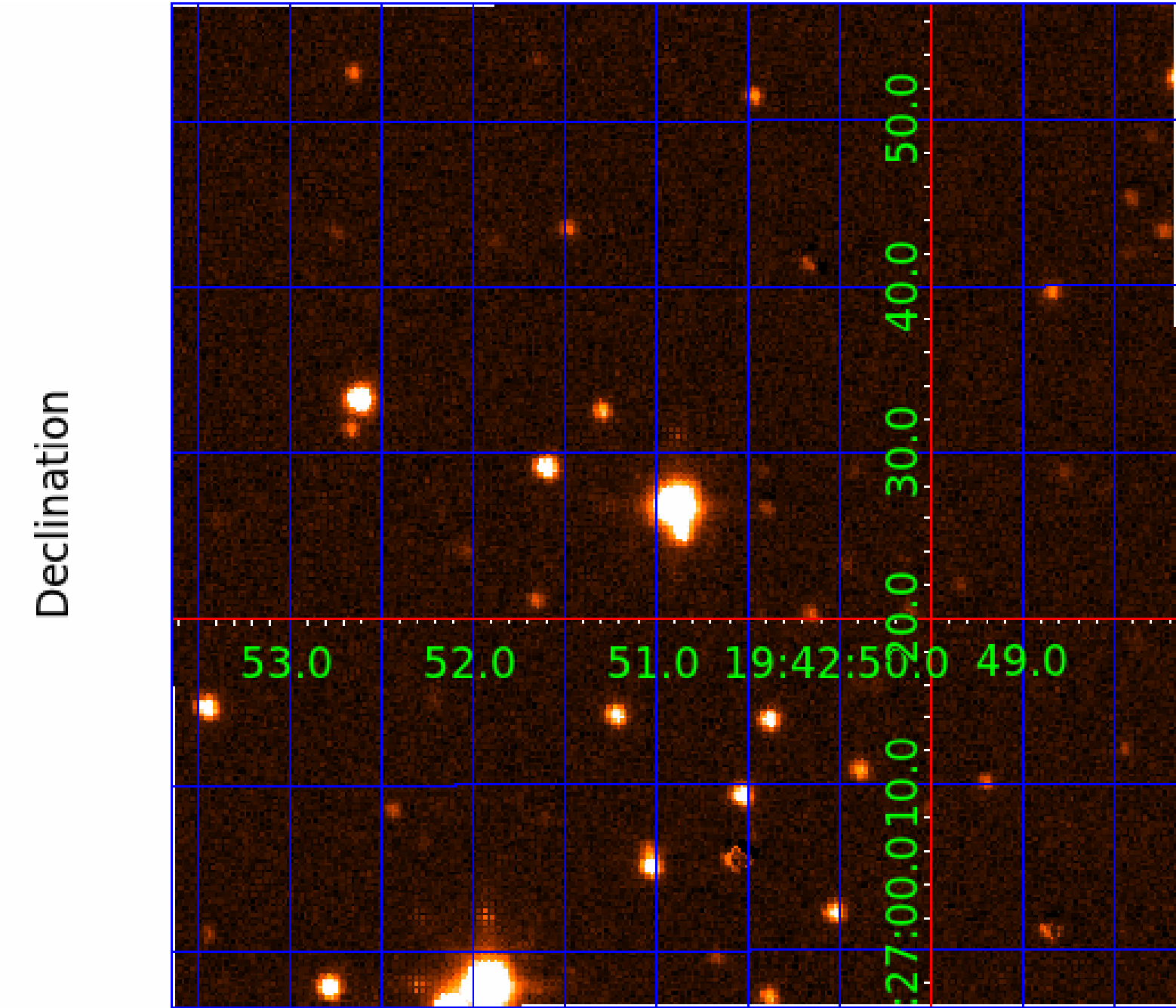
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 006962752

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})
006962752-01	OBS	No	1.525805	132.313951	30.6	9.336	8.2	8.2	3.62	6472	2.02	22191.61
006962752-02	OBS	No	454.840022	149.798932	778.5	19.428	12.7	12.0	3.62	6472	11.73	11.14
006962752-03	OBS	No	50.295264	158.002948	453.5	5.008	11.8	10.4	3.62	6472	8.43	209.97
006962752-04	OBS	No	205.071687	266.848324	534.0	6.186	11.8	7.5	3.62	6472	10.28	32.23
006962752-05	OBS	No	35.607277	136.255074	560.2	7.981	11.3	11.0	3.62	6472	16.43	332.76
006962752-06	OBS	No	99.292648	156.578330	405.3	12.137	8.7	9.3	3.62	6472	8.75	84.78
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Robovetter Results

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006962752-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006962752-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006962752-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT

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

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

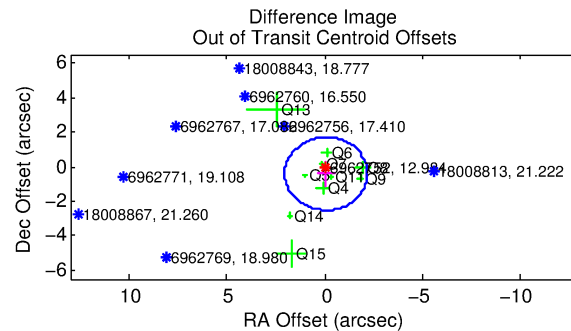
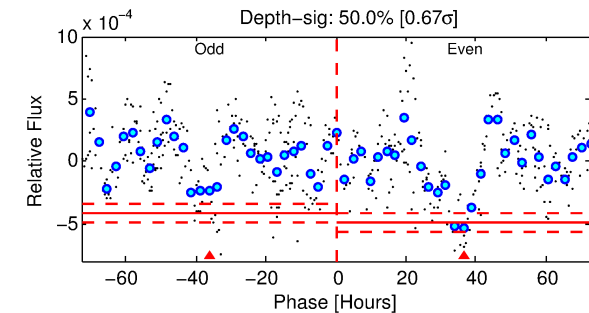
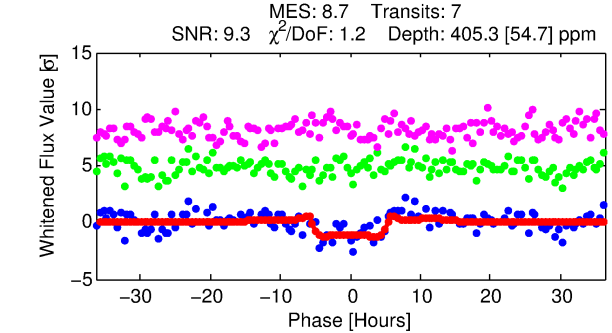
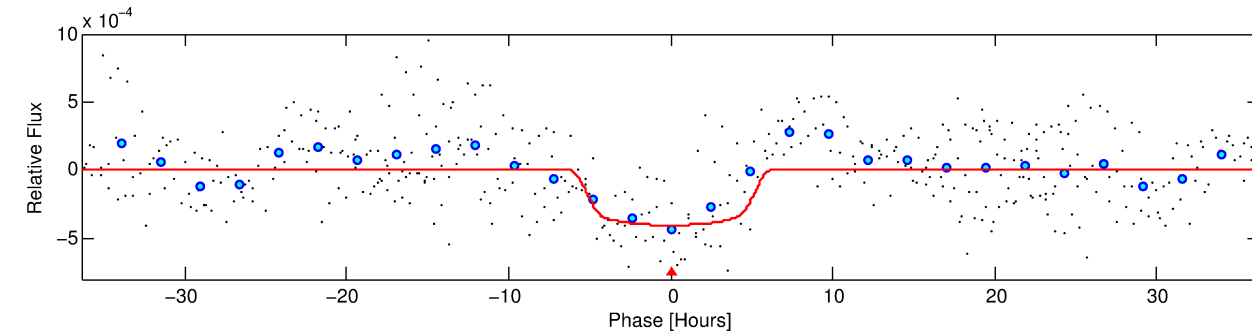
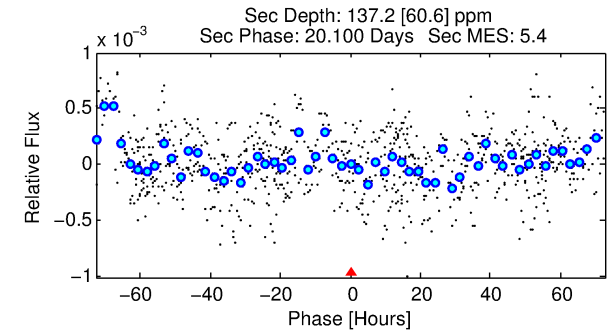
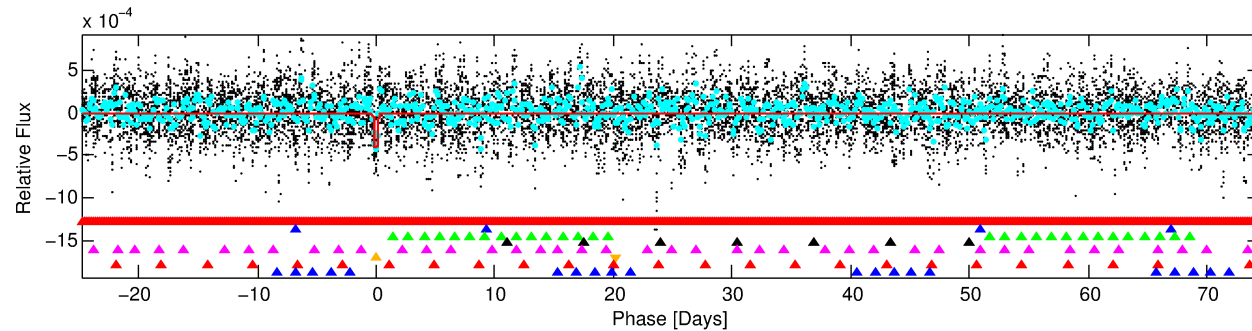
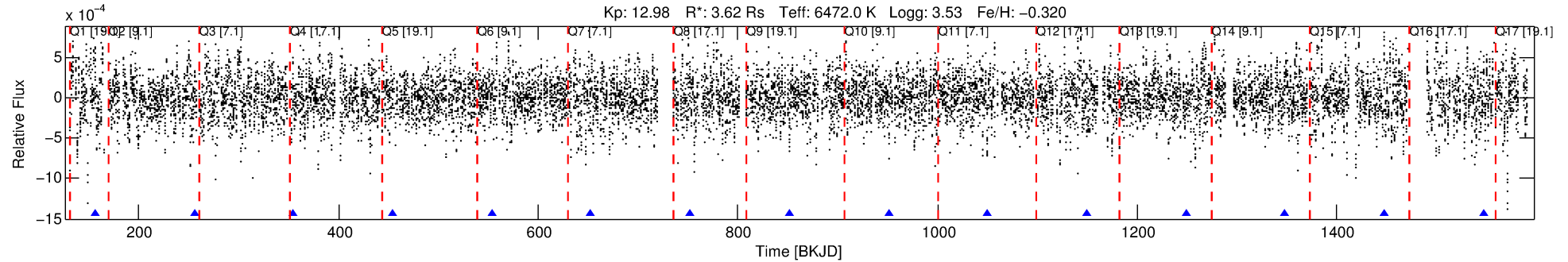
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006962752-06

No Significant Match Found

DV One-Page Summary

KIC: 6962752 Candidate: 6 of 8 Period: 99.293 d



DV Fit Results:

Period = 99.29265 [0.00954] d
Epoch = 156.5783 [0.0776] BKJD
Rp/R* = 0.0221 [0.0020]
a/R* = 26.66 [8.25]
b = 0.93 [0.04]
Seff = 84.78 [50.20]
Teq = 774 [115] K
Rp = 8.75 [3.58] Re
a = 0.4929 [0.1831] AU
Ag = 239.83 [180.27] [1.32σ]
Teffp = 4708 [574] K [6.72σ]

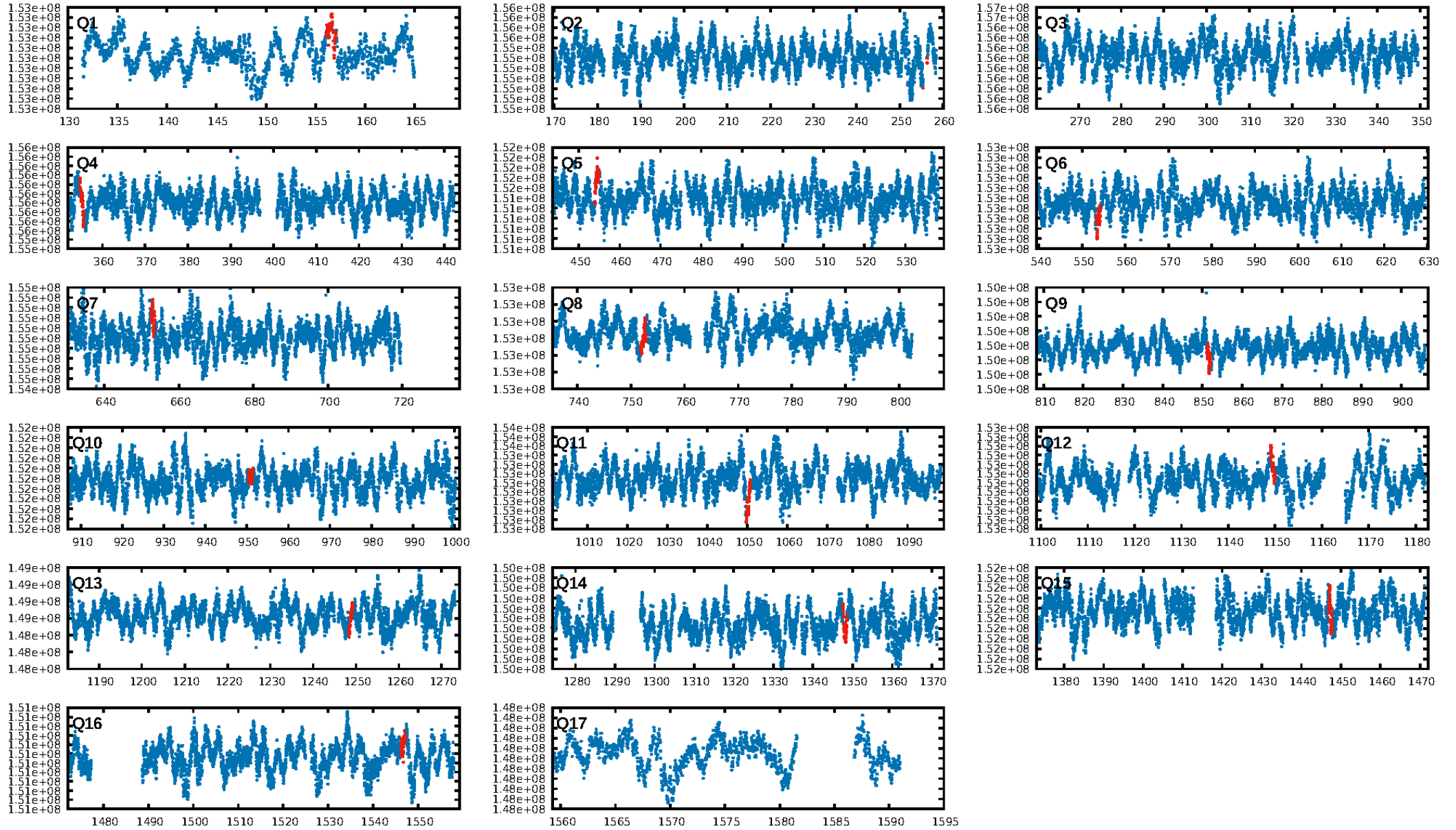
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [47.32σ]
LongPeriod-sig: 100.0% [186.36σ]
ModelChiSquare2-sig: 1.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: 1.174
Centroid-sig: 69.9%
Centroid-so: 0.129 arcsec [0.60σ]
OotOffset-rm: 0.414 arcsec [0.59σ]
KicOffset-rm: 0.527 arcsec [0.92σ]
OotOffset-st: 2/3/2/3 [10]
KicOffset-st: 2/3/2/3 [10]
DiffImageQuality-fgm: 0.30 [3/10]
DiffImageOverlap-fno: 0.00 [0/13]

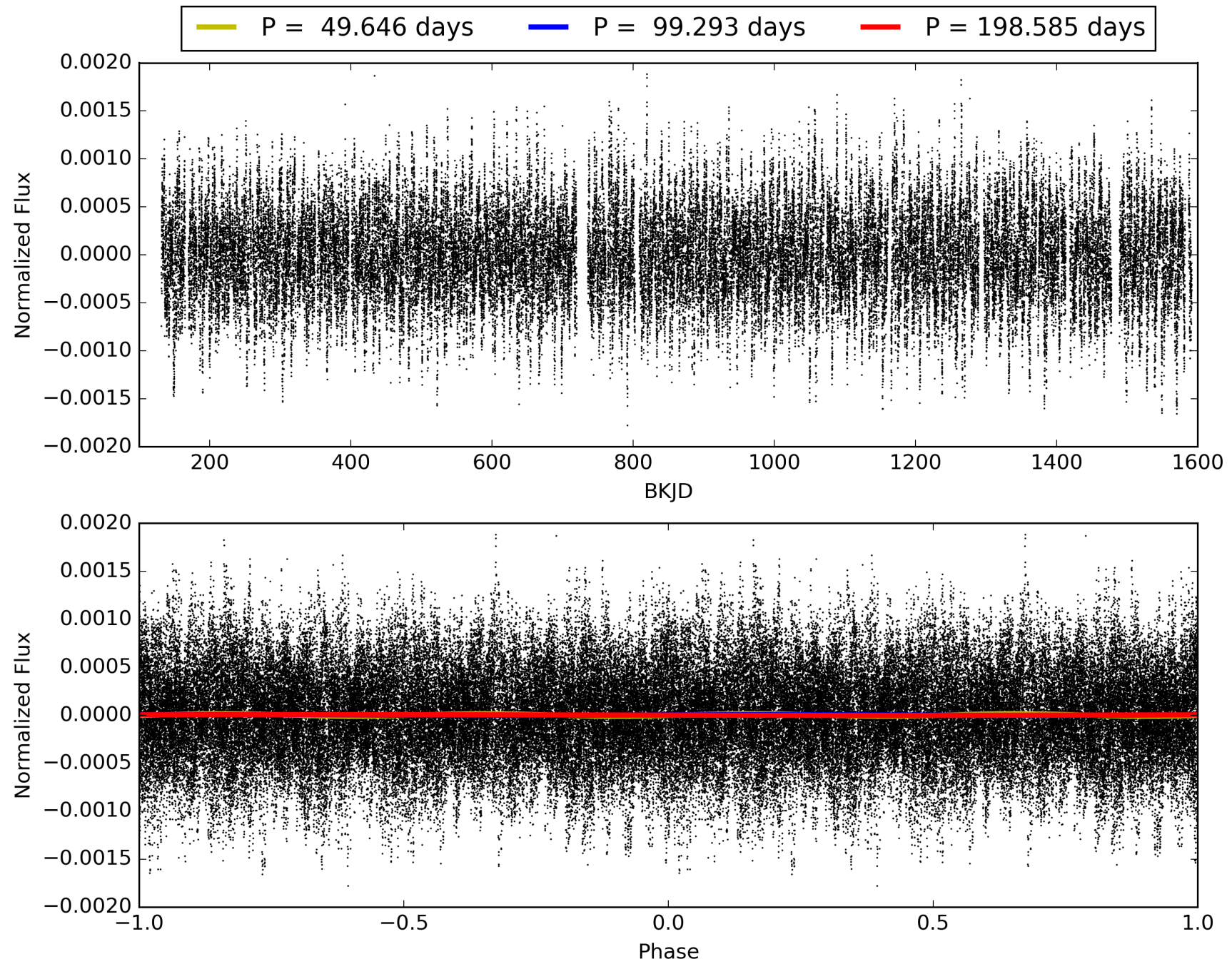
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 08:18:56 Z

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

TCE 006962752-06, PDC Light Curves

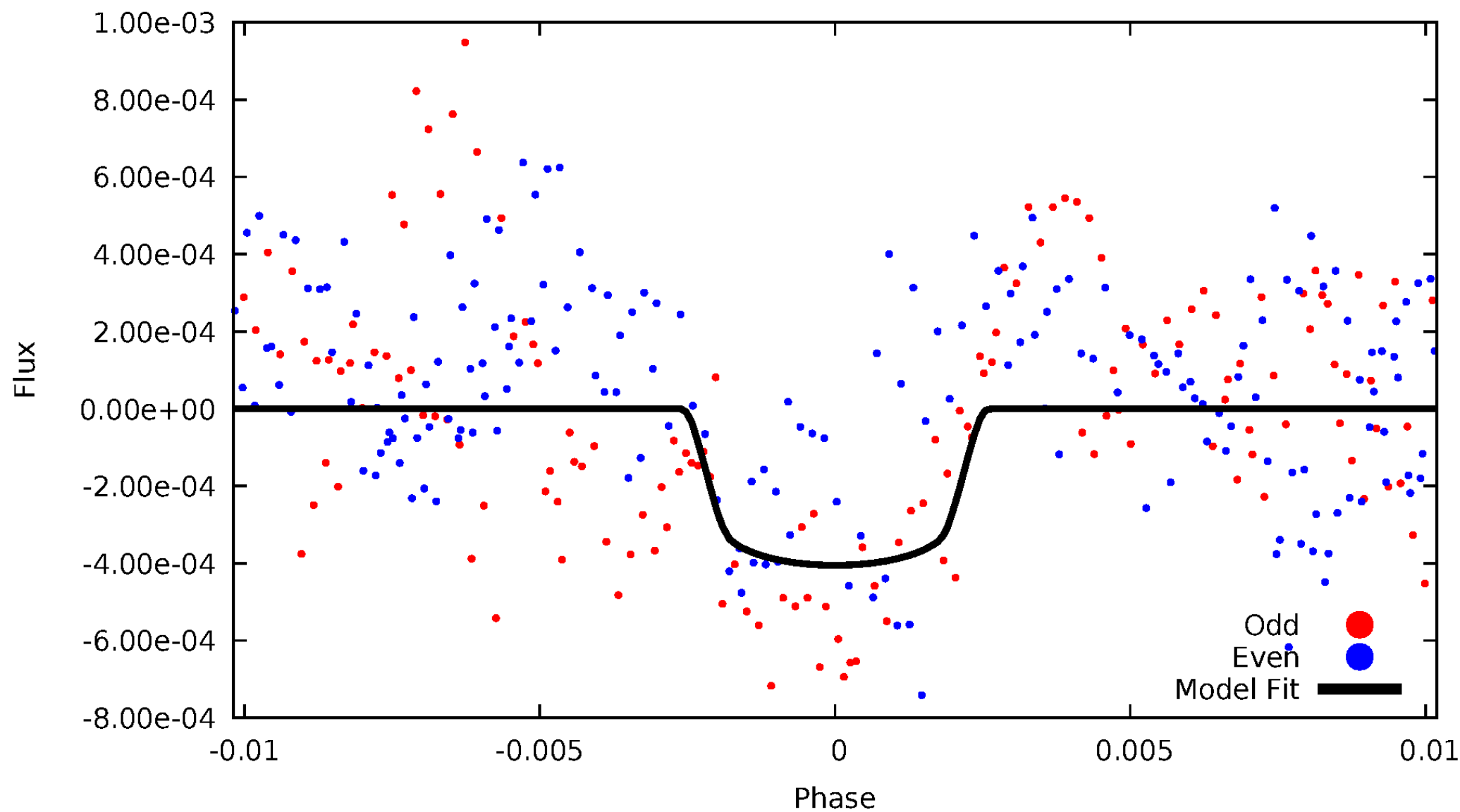


TCE 006962752-06



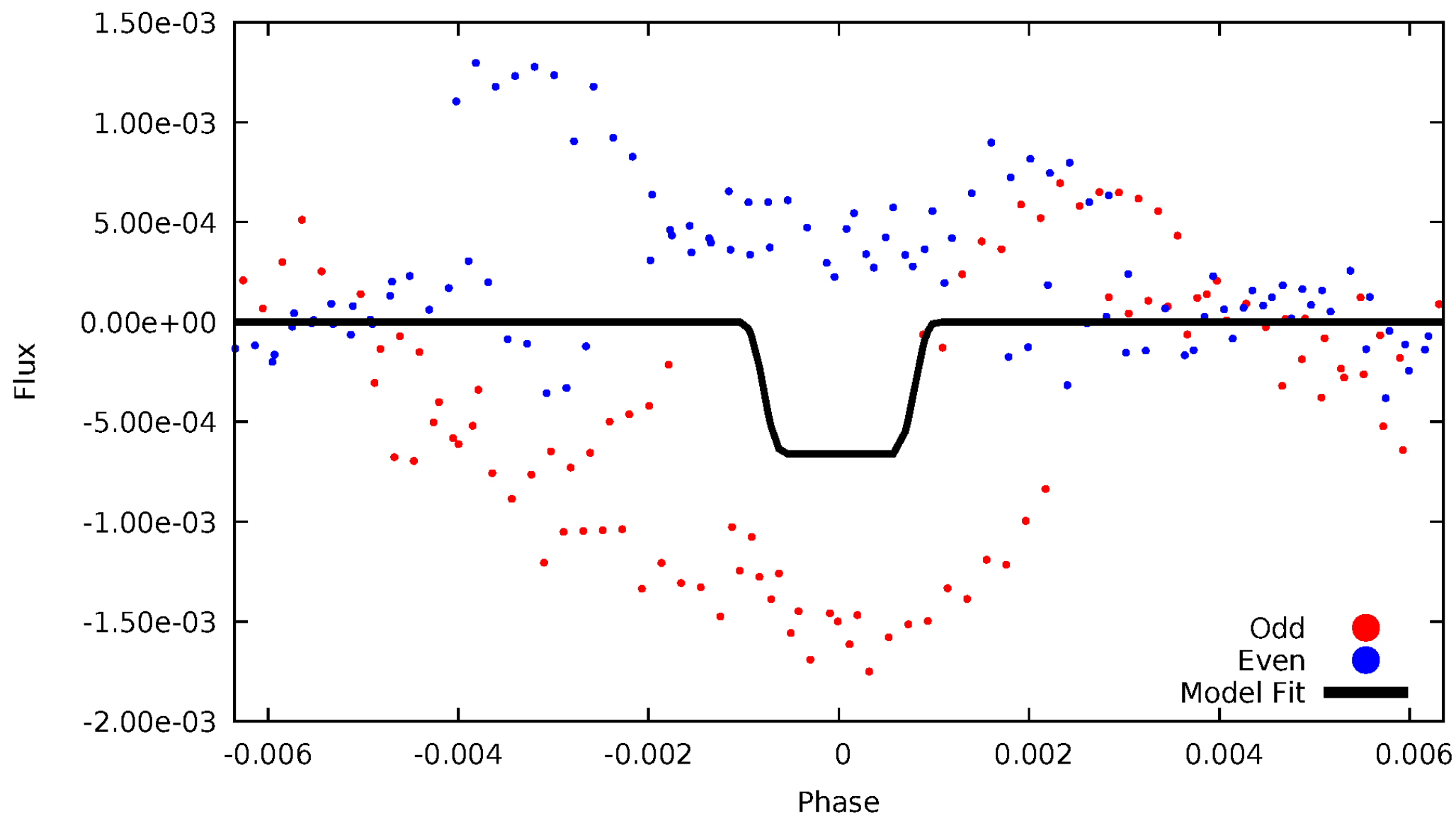
DV Odd/Even

TCE 006962752-06



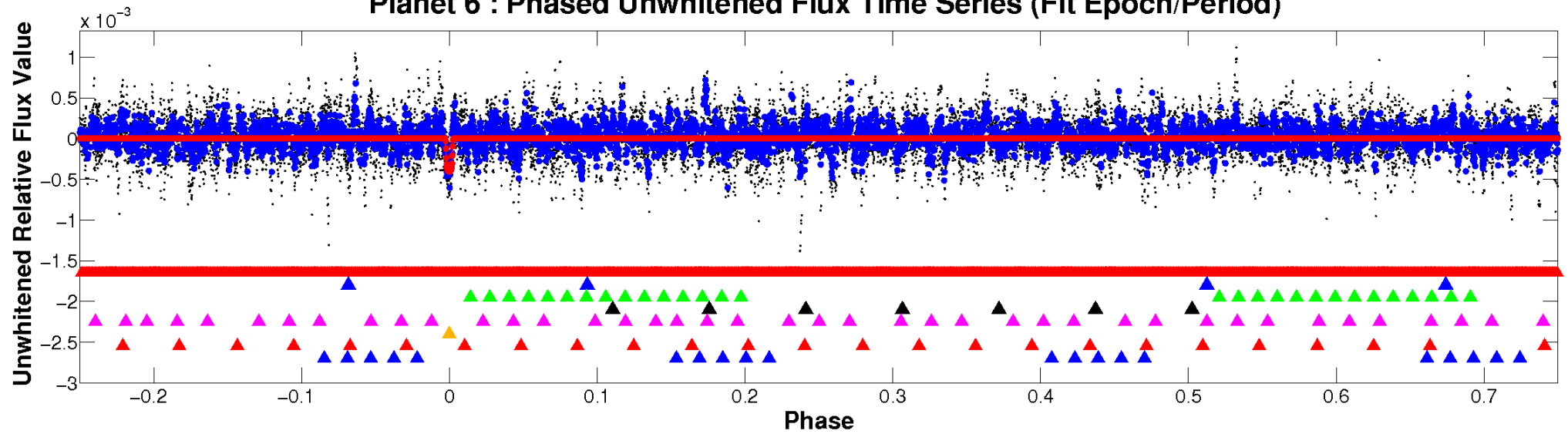
ALT Odd/Even

TCE 006962752-06

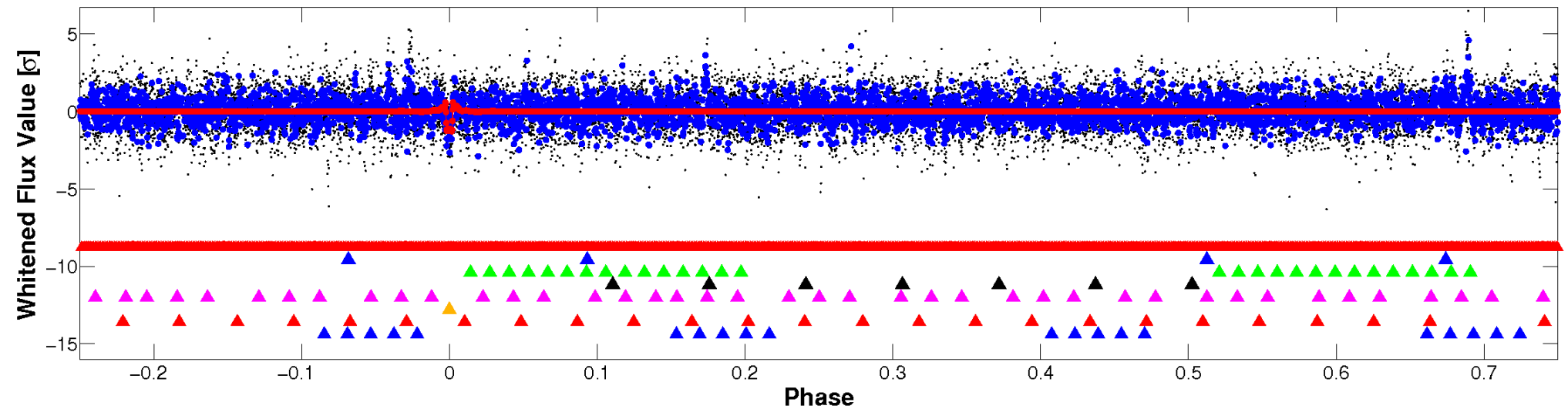


Non-Whitened Vs. Whitened Light Curve

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

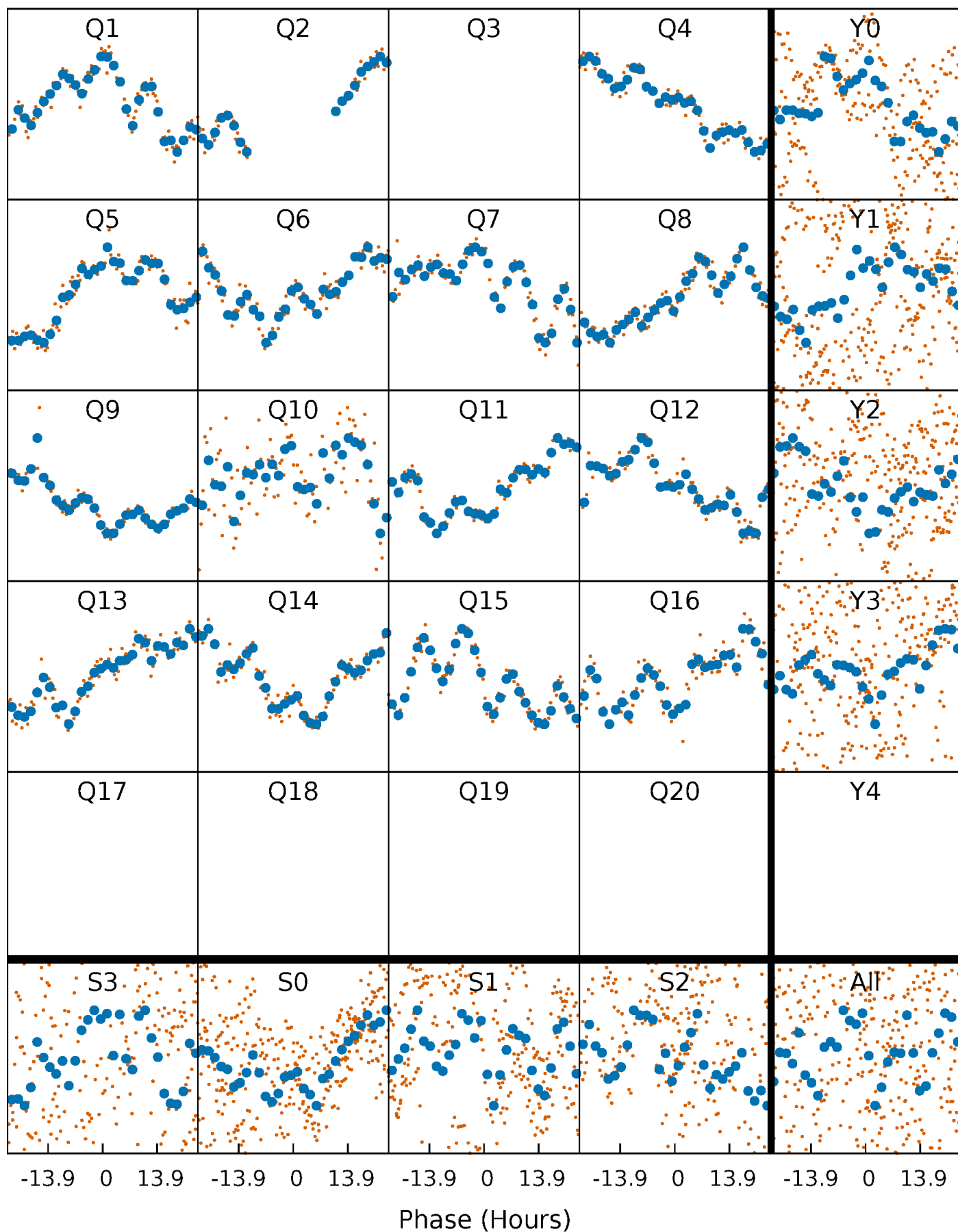


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



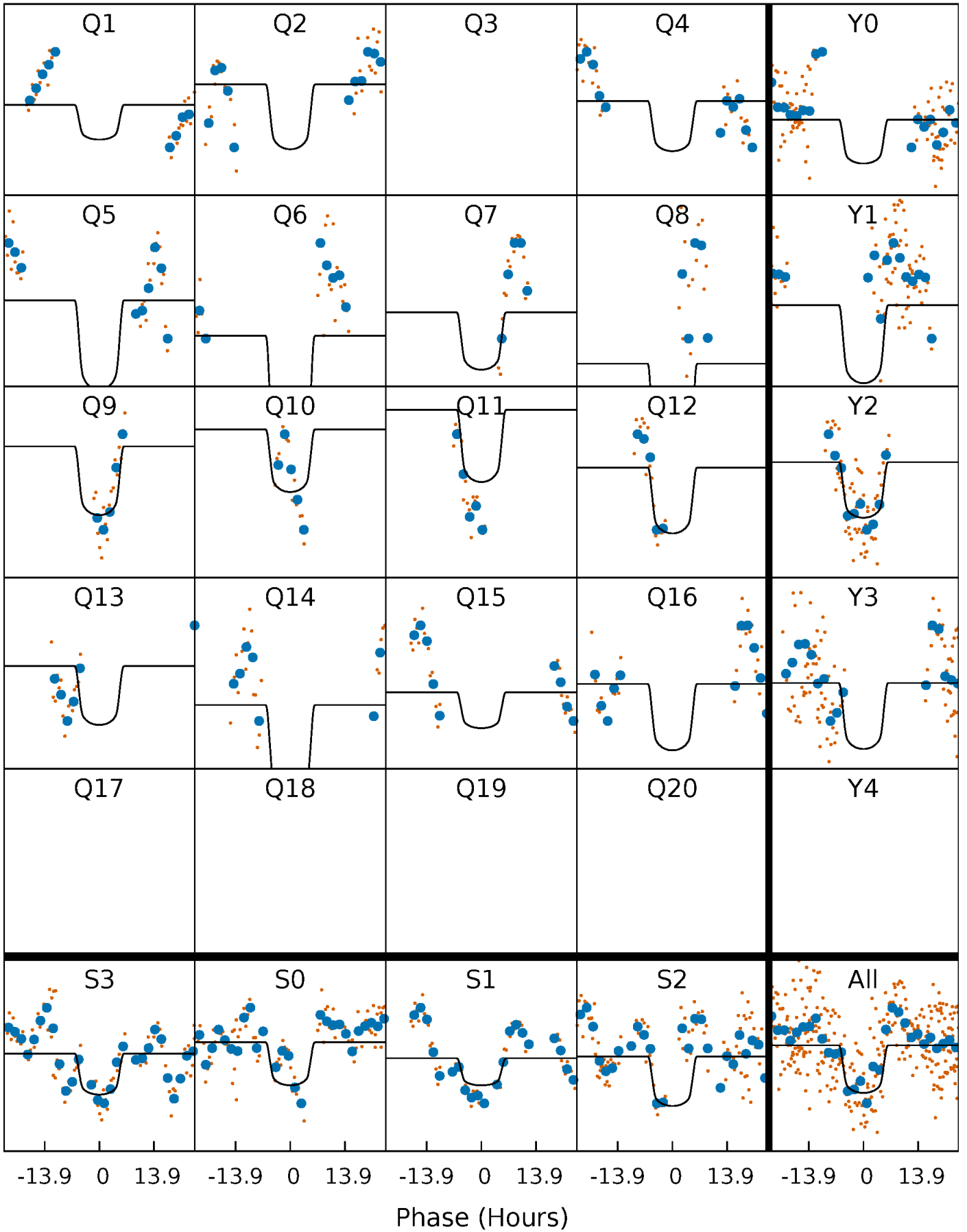
PDC Quarter-Phased Transit Curves

TCE 006962752-06 P= 99.292648 Days $T_0=156.578330$ (BKJD)



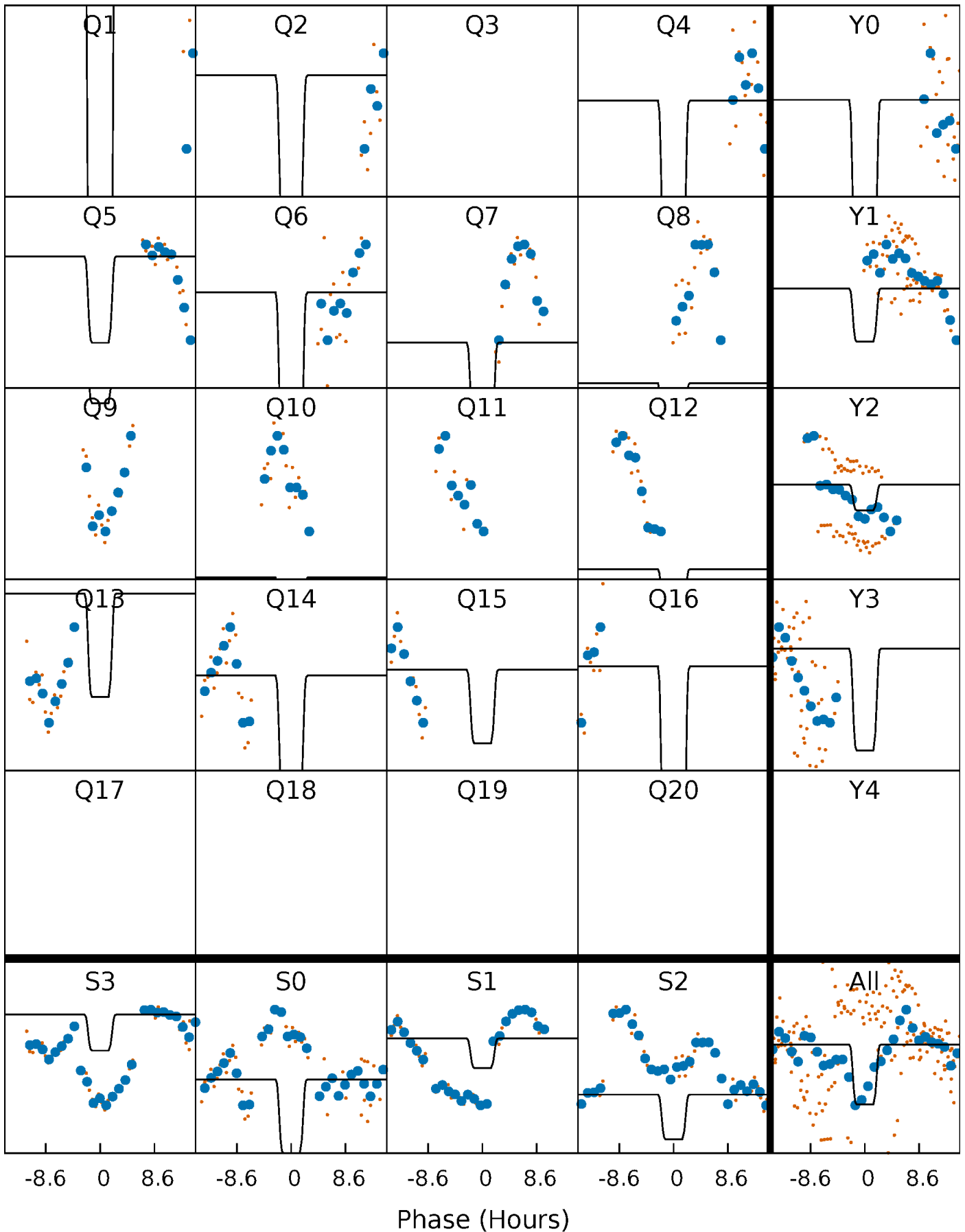
DV Quarter-Phased Transit Curves

TCE 006962752-06 $P = 99.292648$ Days $T_0 = 156.578330$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

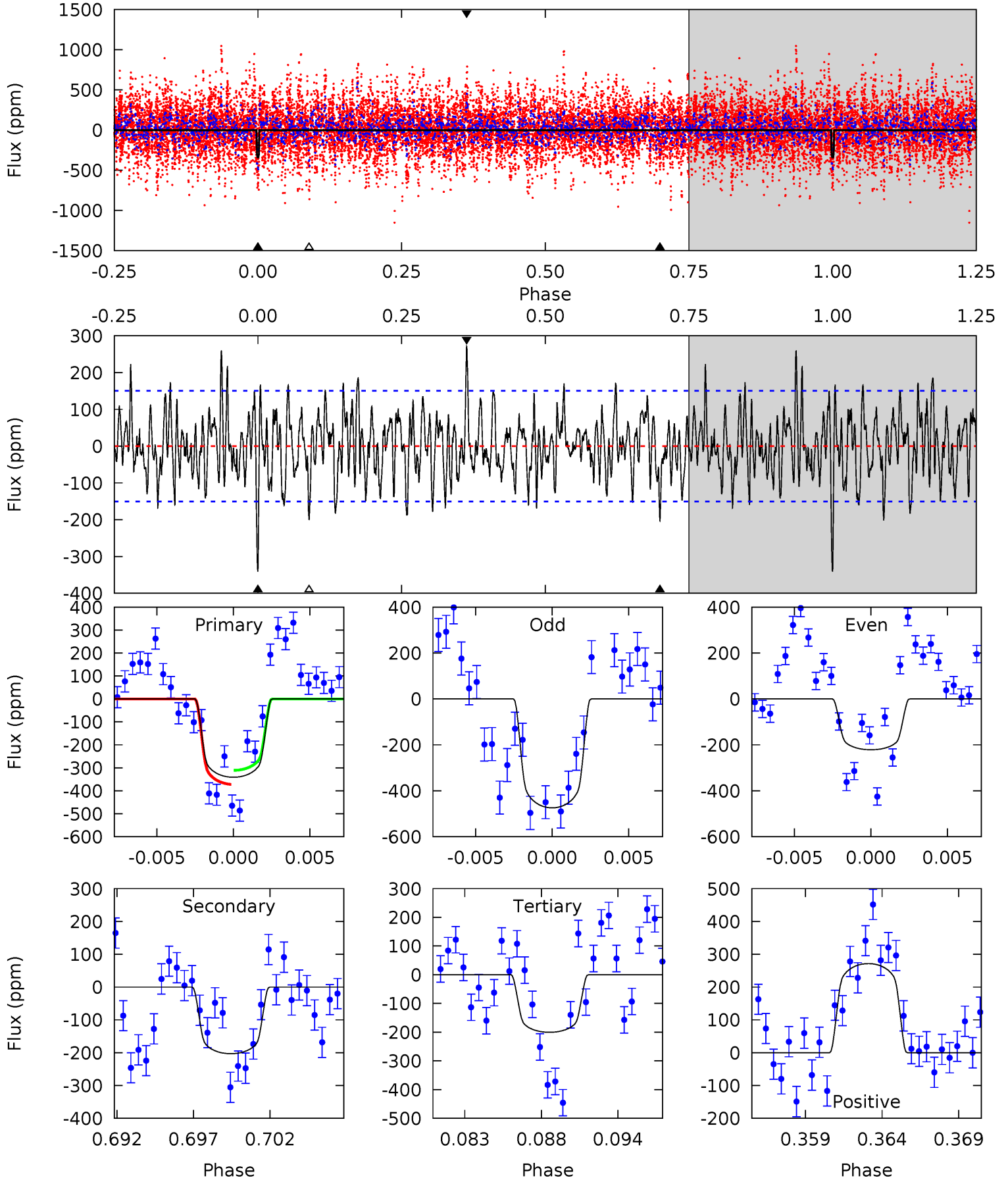
TCE 006962752-06 $P = 99.273046$ Days $T_0 = 156.770812$ (BKJD)



DV Model-Shift Uniqueness Test

006962752-06, P = 99.292648 Days, E = 57.285682 Days

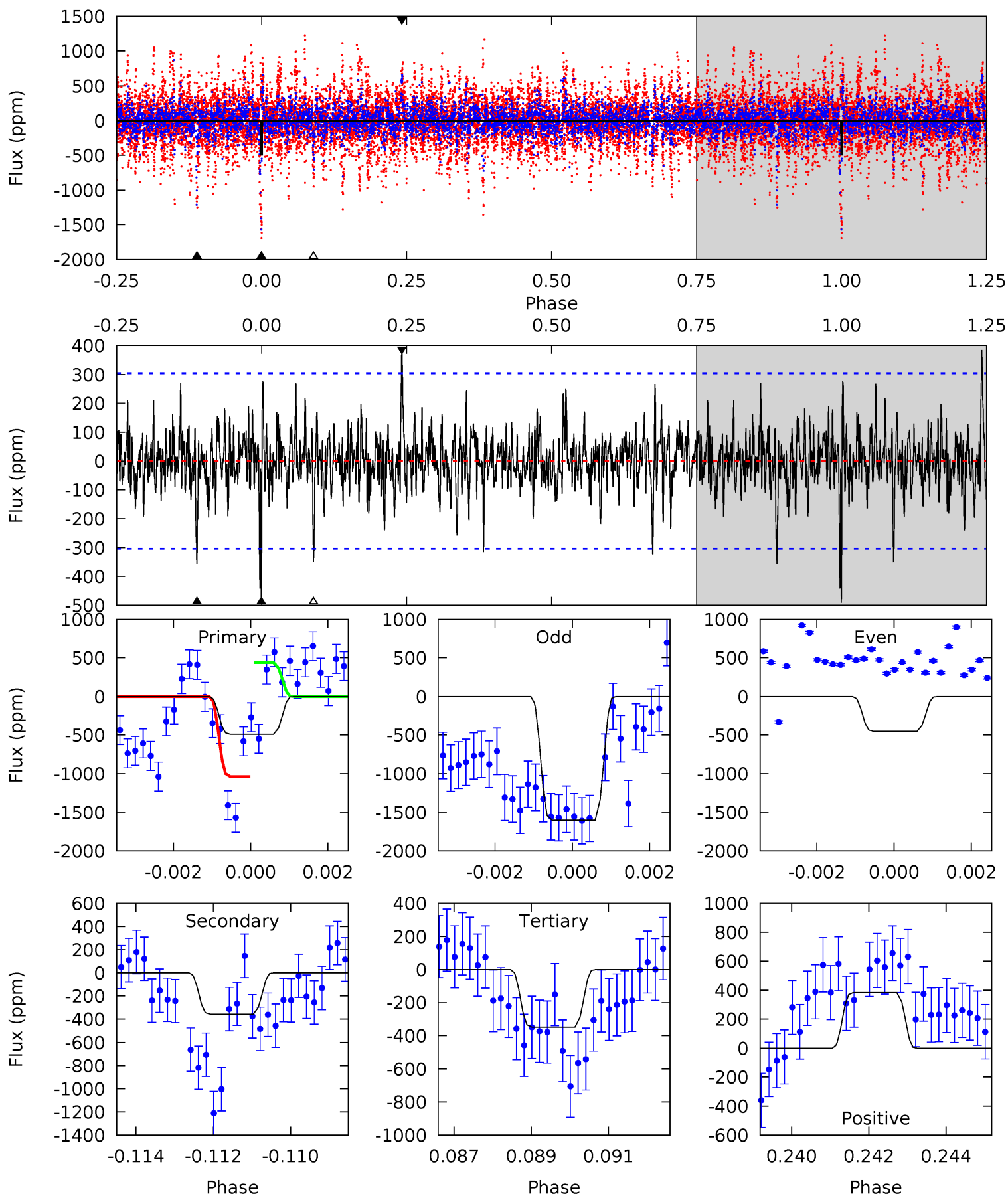
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.7	6.95	6.86	9.29	5.15	2.79	2.48	4.81	2.38	0.09	-2.34	4.33	0.75	0.44	1.05



Alt Model-Shift Uniqueness Test

006962752-06, P = 99.273046 Days, E = 57.497766 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.61	6.27	6.10	6.74	5.33	3.10	1.44	2.51	1.87	0.17	-0.47	10.6	-0.85	0.44	4.93



Stellar Parameters For KIC 006962752

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6472^{+176}_{-176}	$3.530^{+0.337}_{-0.112}$	$-0.320^{+0.350}_{-0.300}$	$3.620^{+0.483}_{-1.448}$	$1.621^{+0.212}_{-0.393}$	$0.048^{+0.128}_{-0.017}$
	+3%/-3%	+10%/-3%	+109%/-94%	+13%/-40%	+13%/-24%	+267%/-36%
Source	PHO1	FLK73	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 006962752-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-203 ± 29	$8.45^{+1.36}_{-1.84}$	1069^{+63}_{-105}	5251^{+296}_{-287}	382^{+222}_{-105}
Alt.	-358 ± 57	$9.87^{+1.43}_{-2.09}$	1063^{+64}_{-97}	5544^{+355}_{-292}	501^{+258}_{-138}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming A=0.3)

A_{obs} = Observed Albedo (Assuming T=0)

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

DV Centroid Data

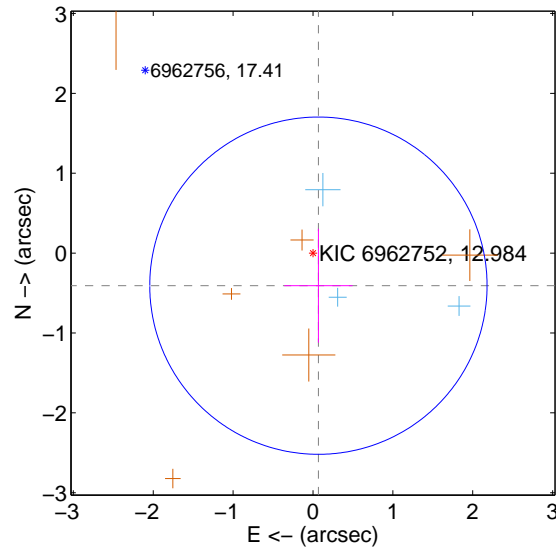
Supplemental centroid analysis for 006962752-06. Kepler magnitude: 12.98. Transit SNR 9.26

There are 3 quarters with good PRF difference image offsets

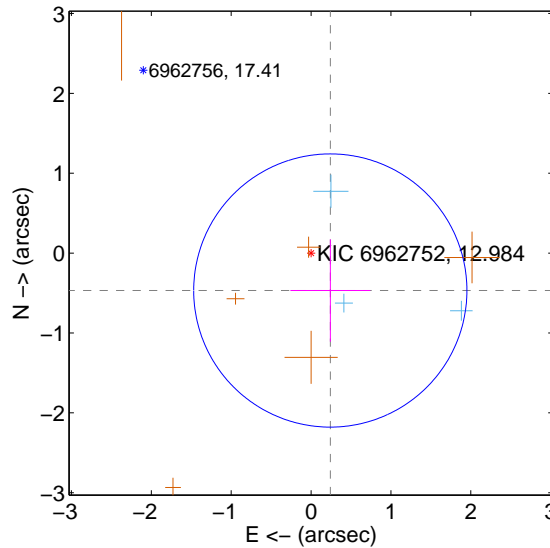
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.414 ± 0.704	0.59	-0.068 ± 0.427	-0.408 ± 0.713
PRF-fit source offset from KIC position	0.527 ± 0.570	0.92	-0.241 ± 0.499	-0.468 ± 0.640
photometric centroid source offset	0.13 ± 0.21	0.60	0.05 ± 0.22	-0.12 ± 0.21

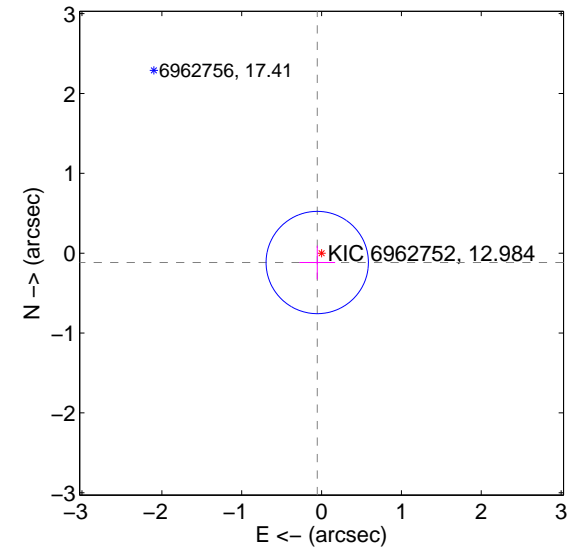
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

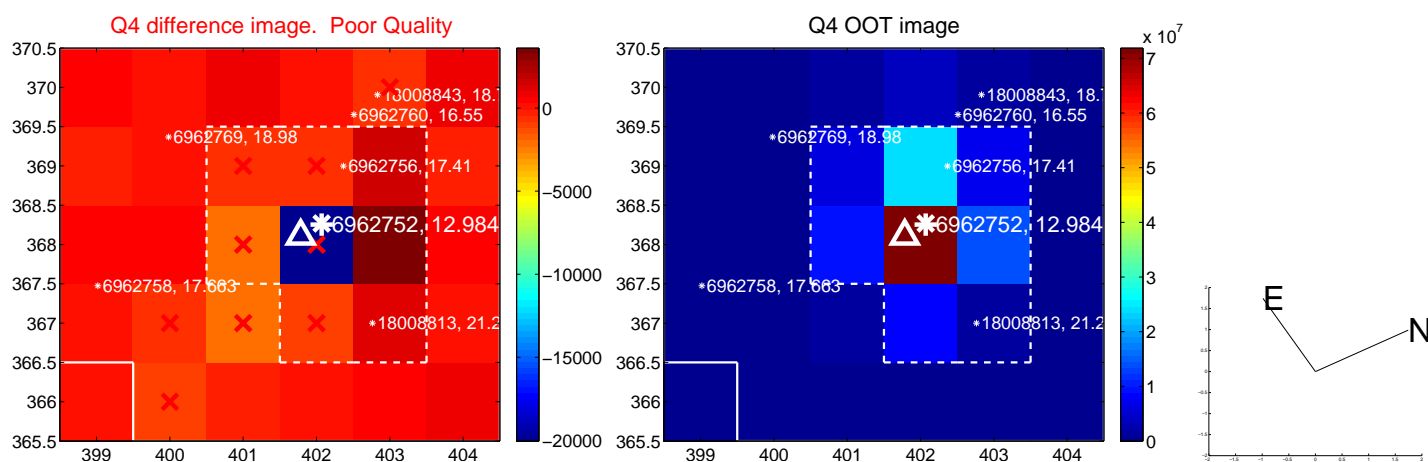
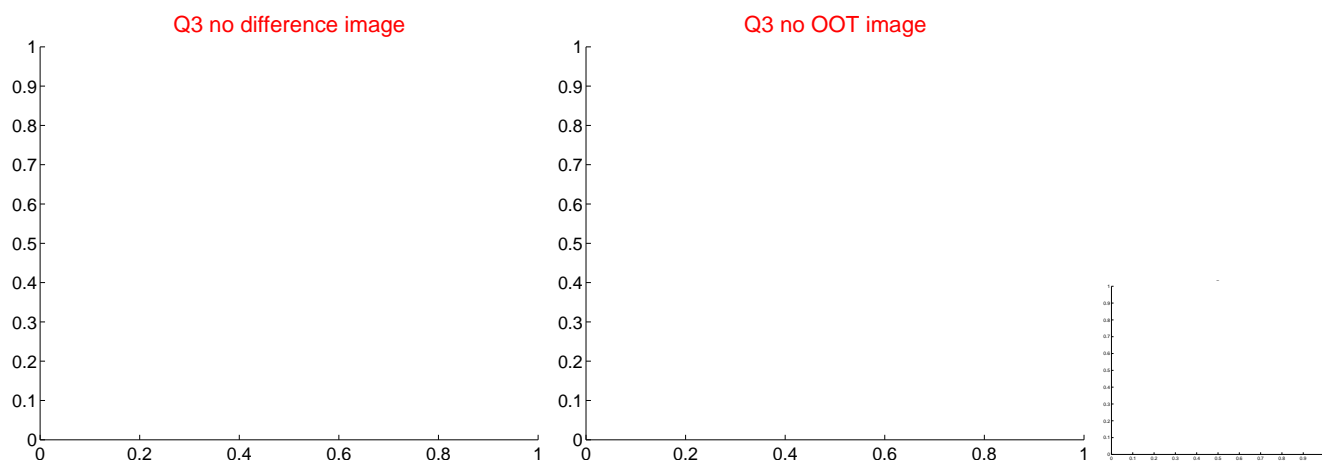
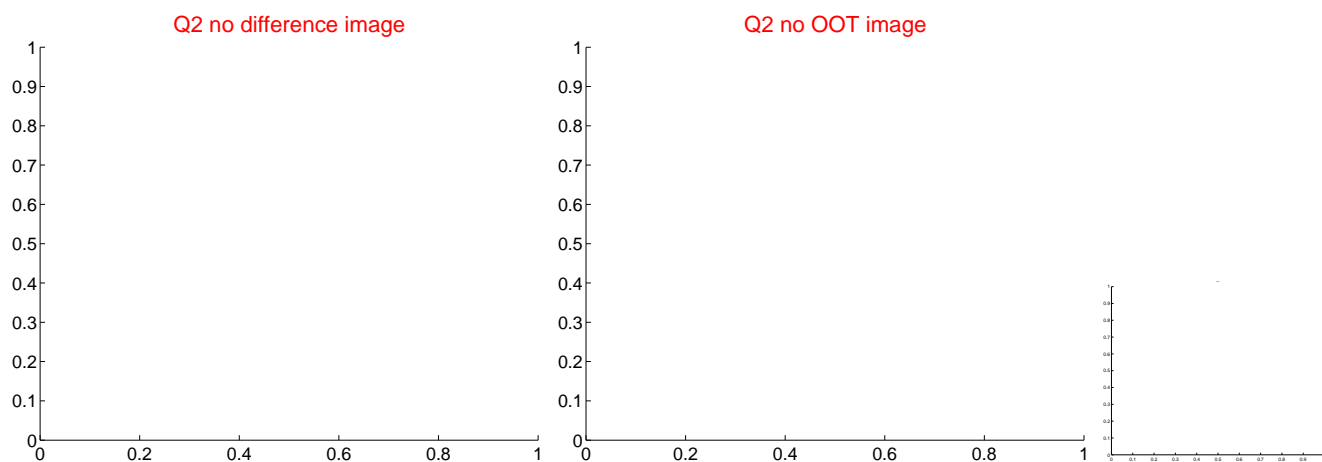
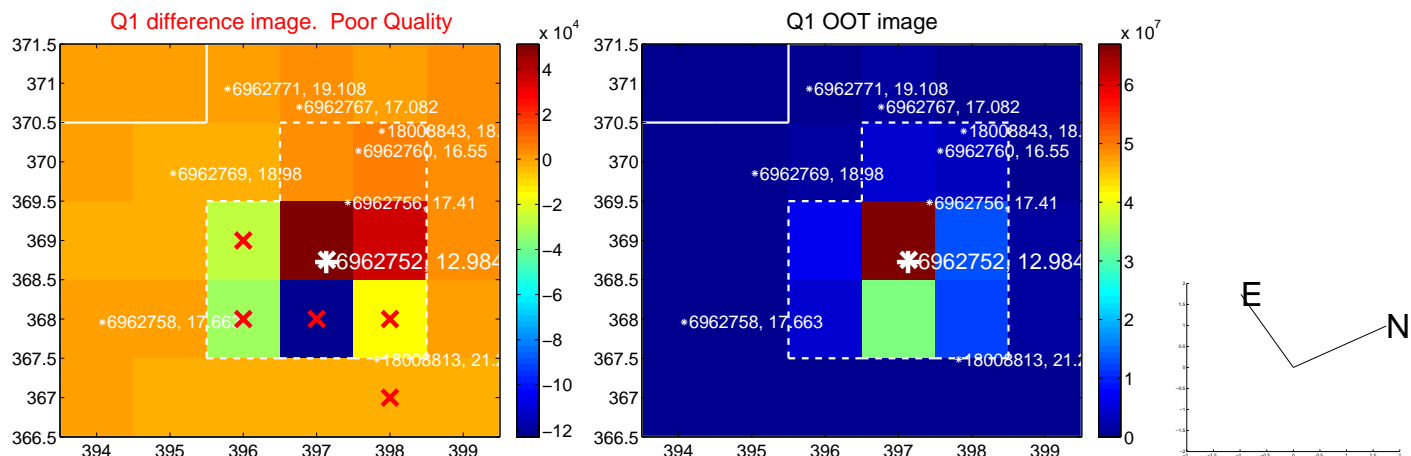


offset from photometric centroids

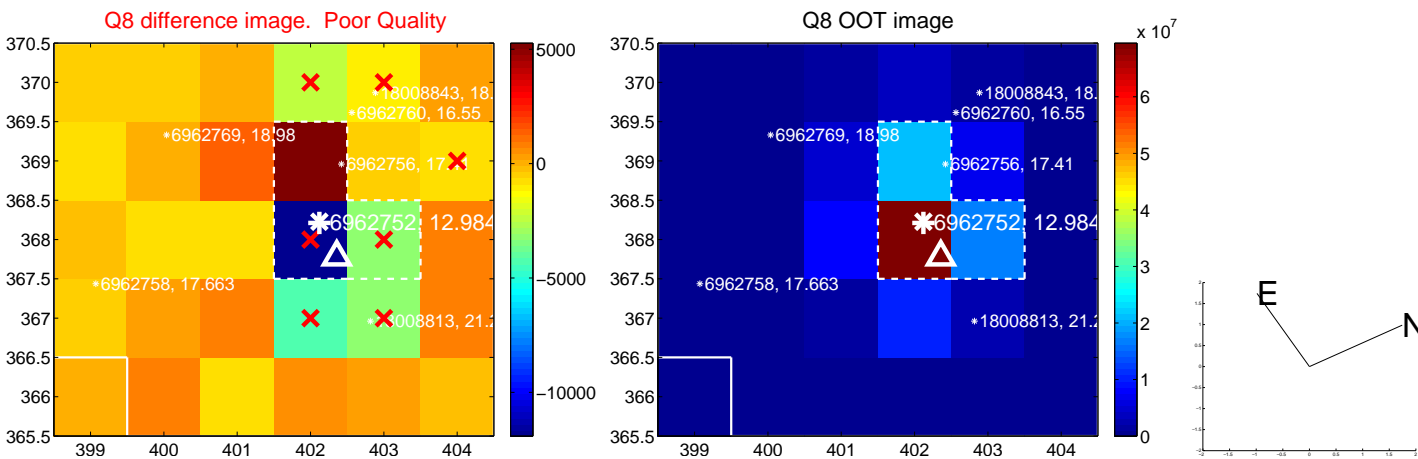
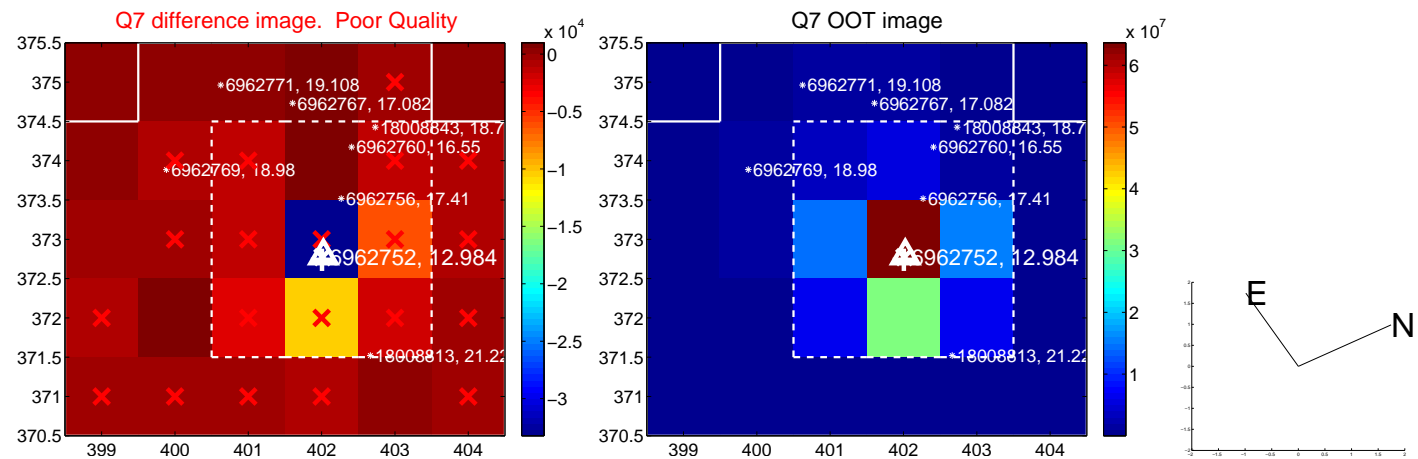
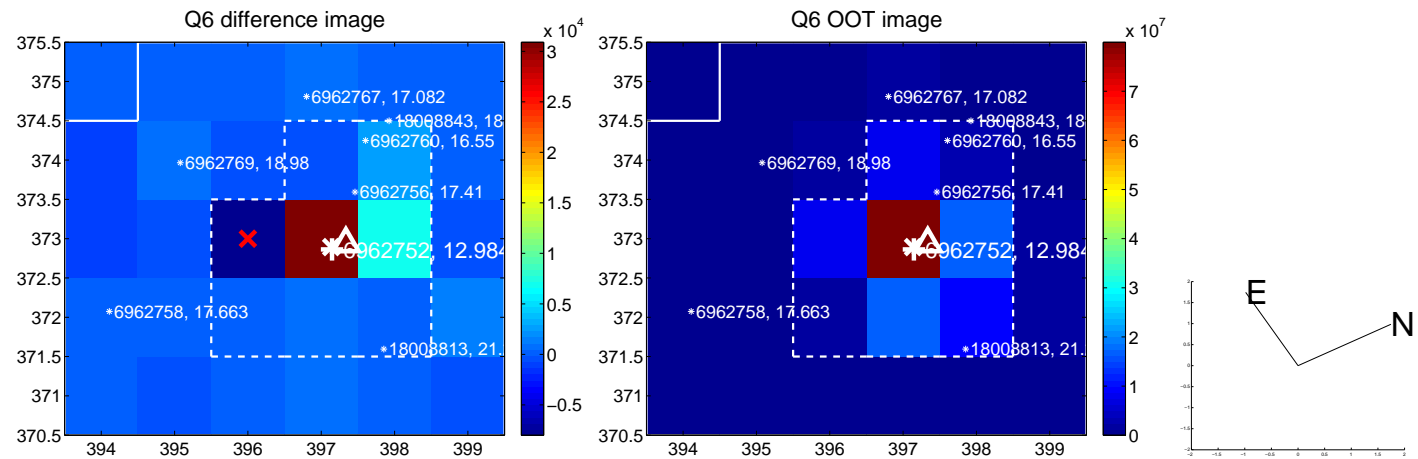
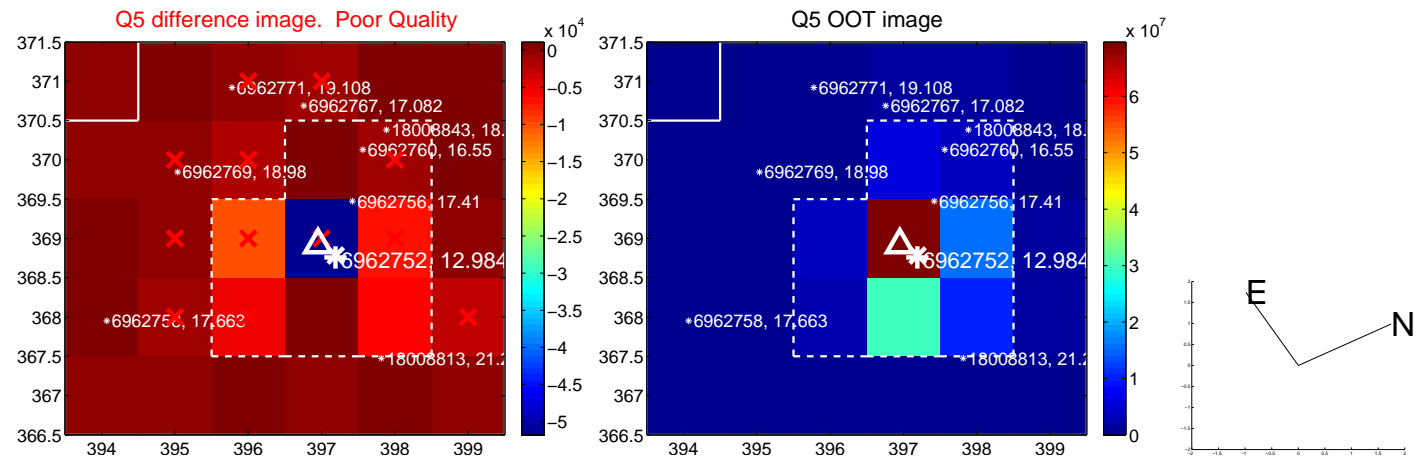


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

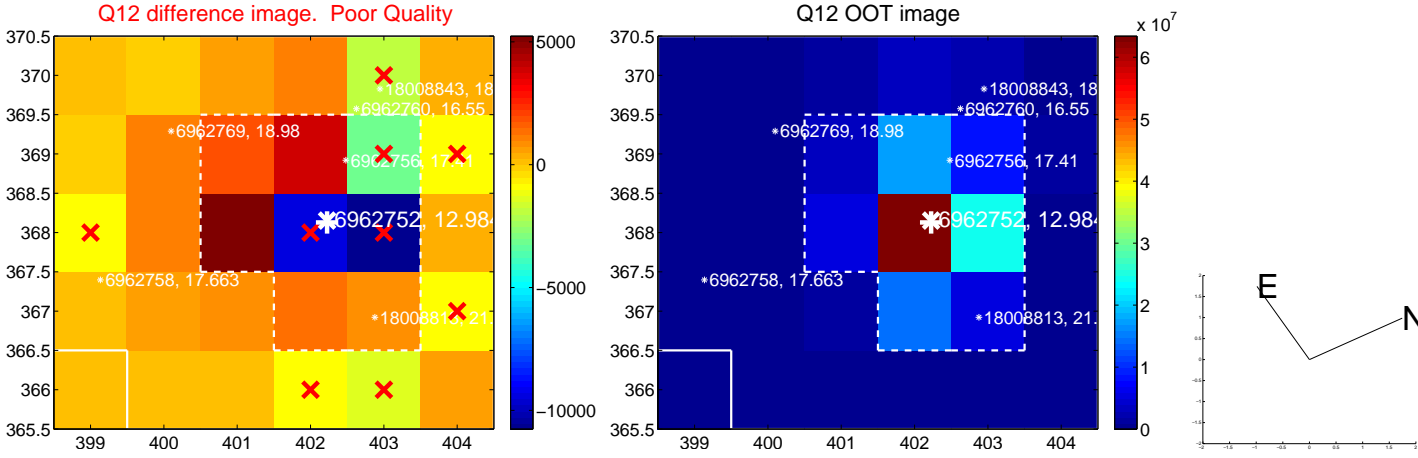
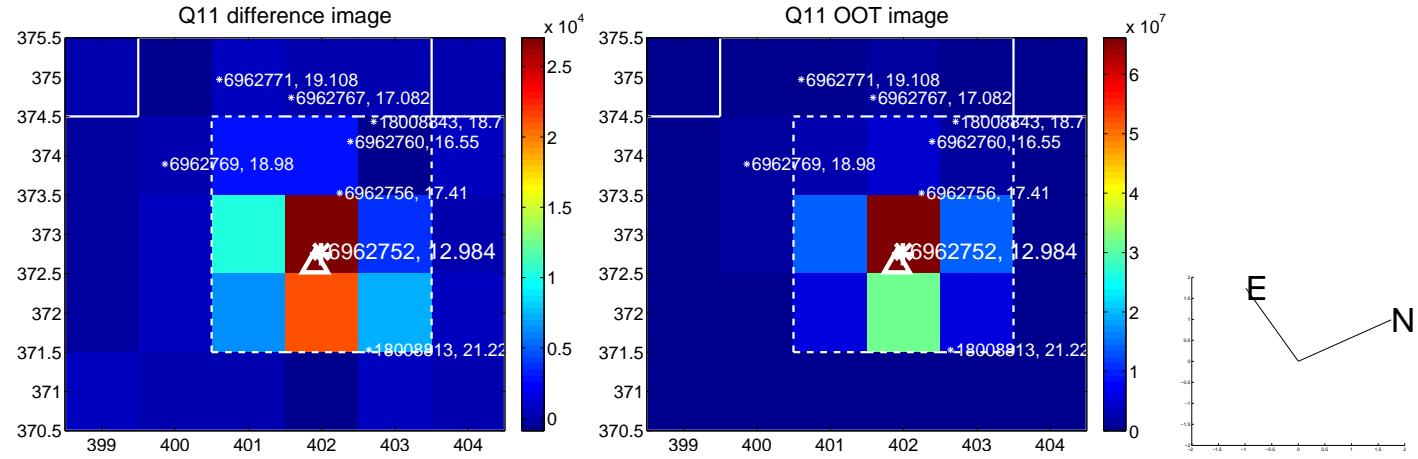
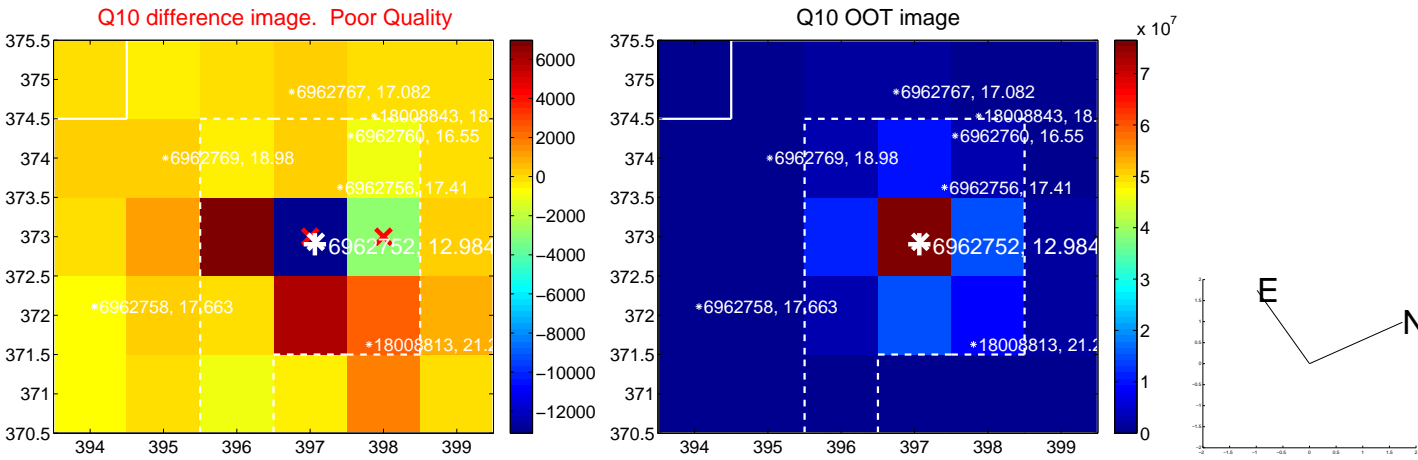
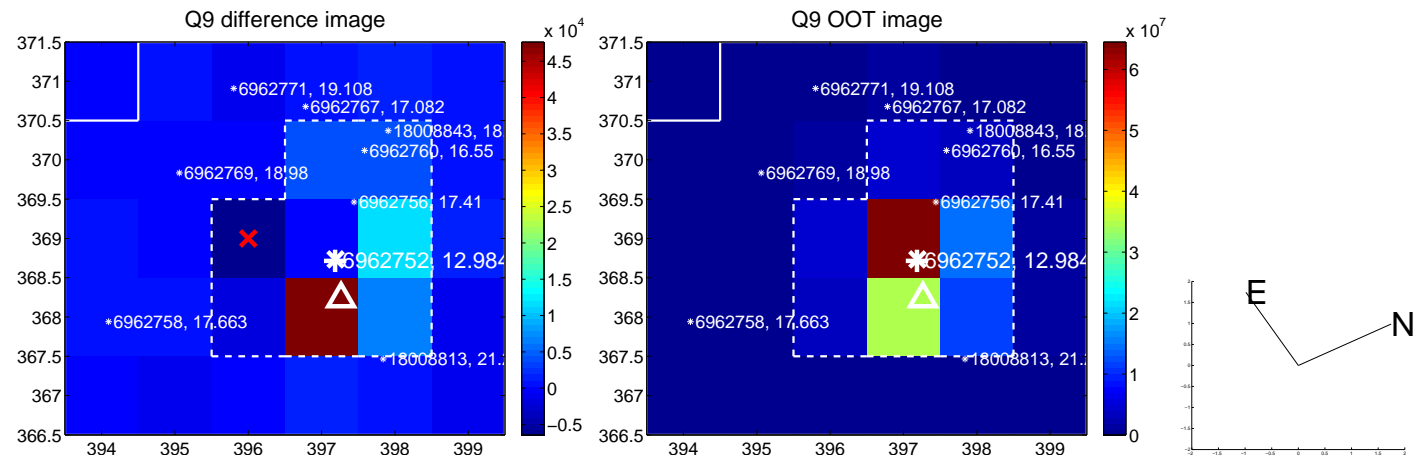
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



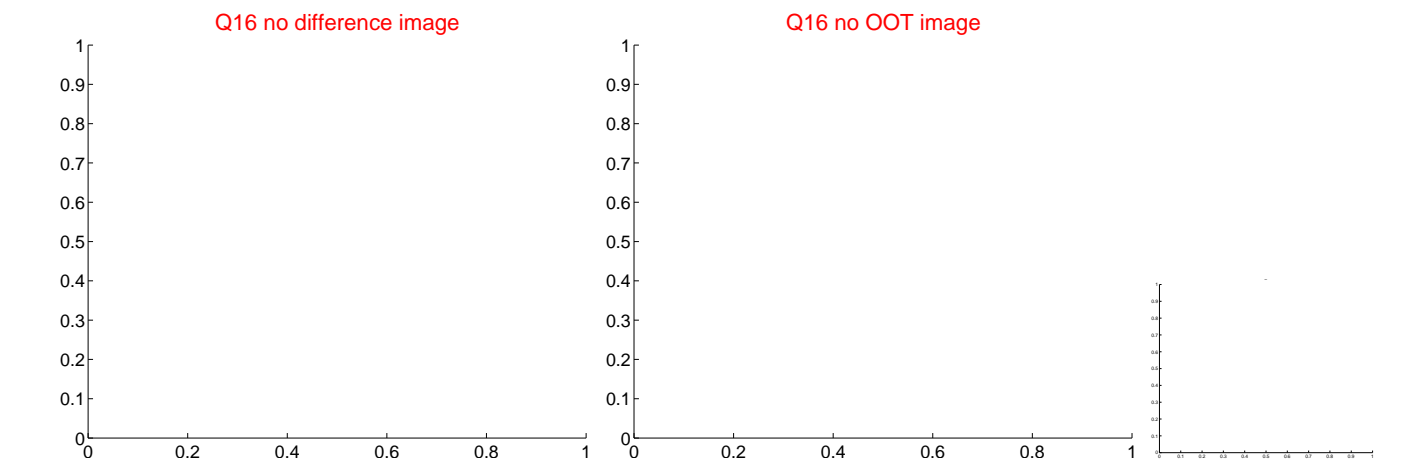
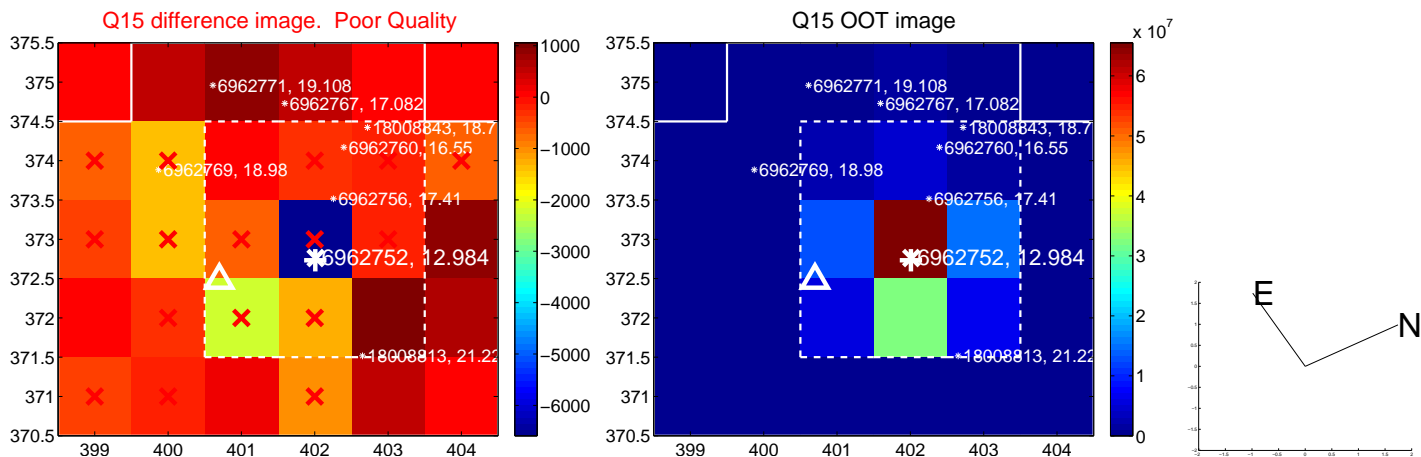
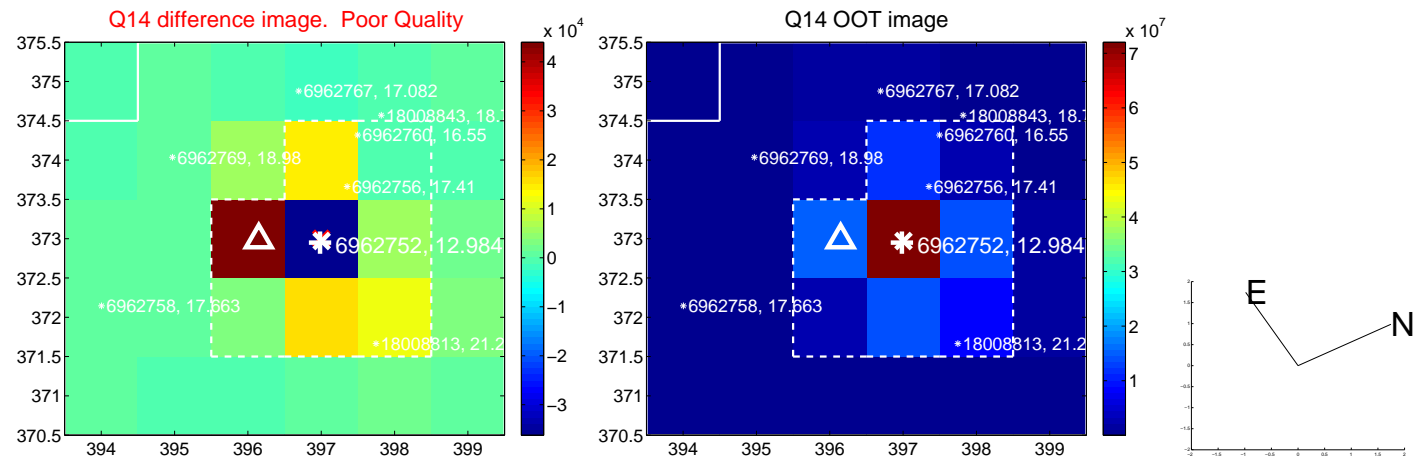
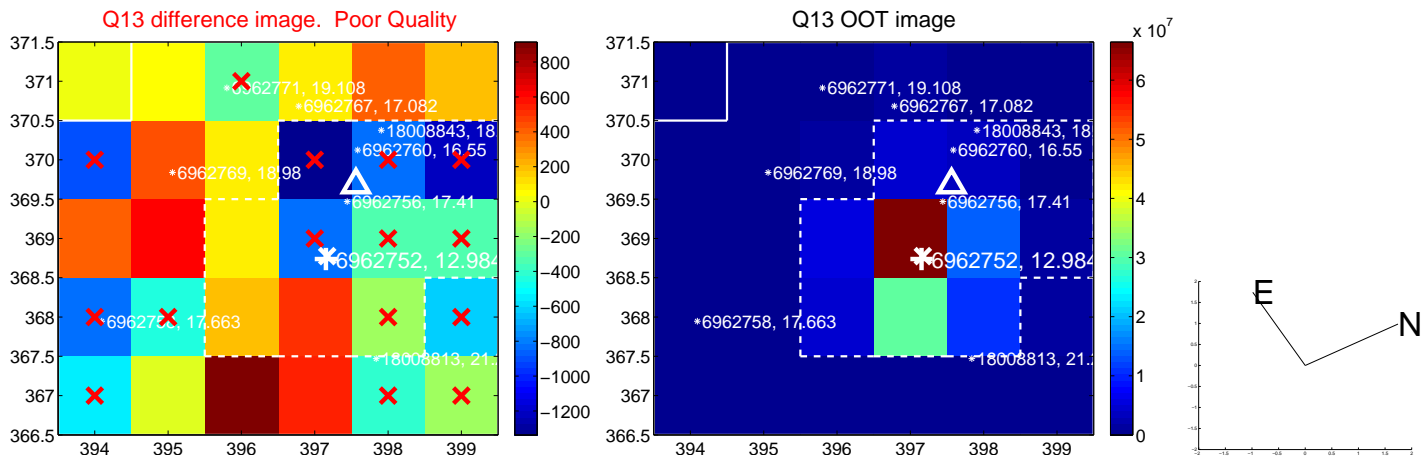
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



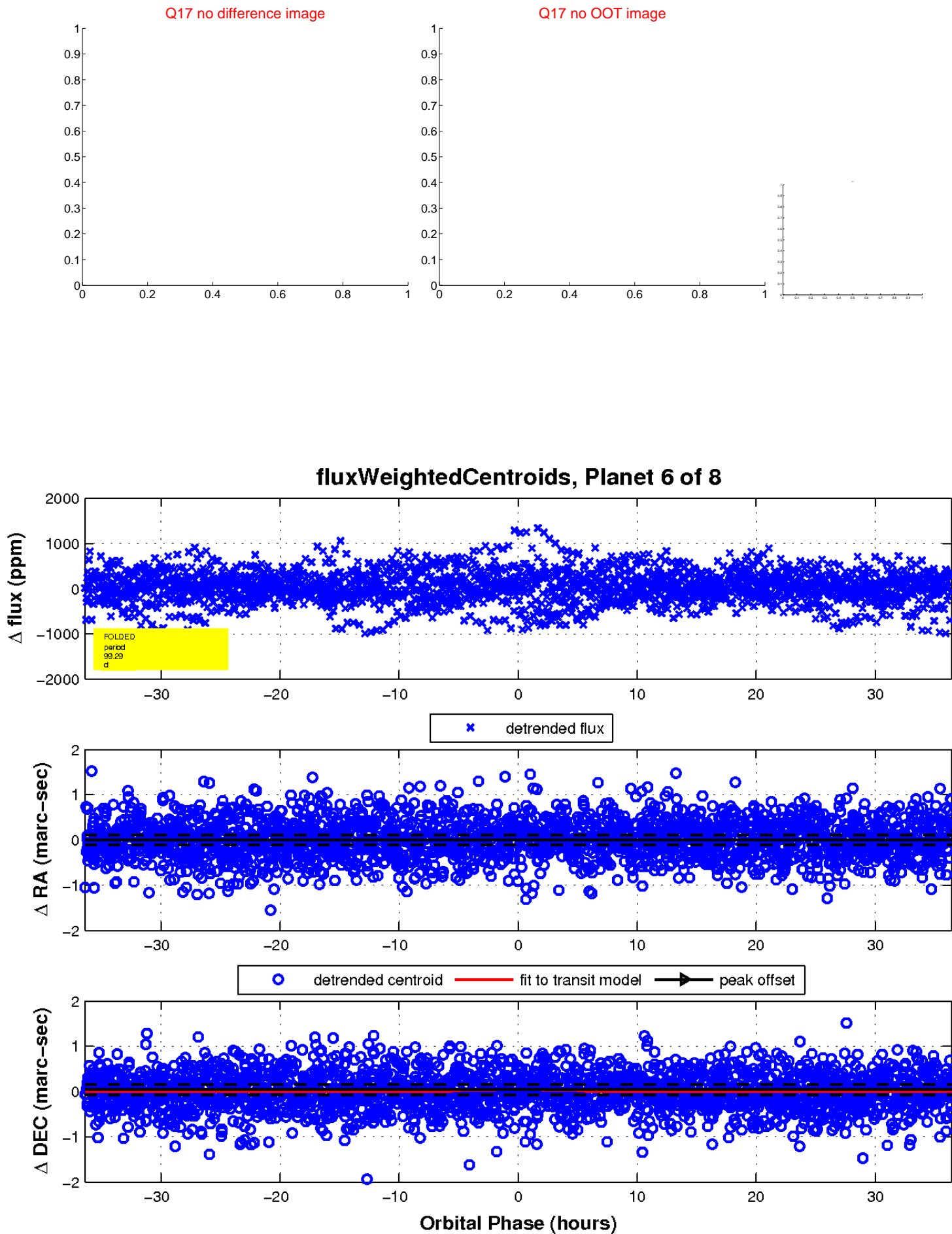
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

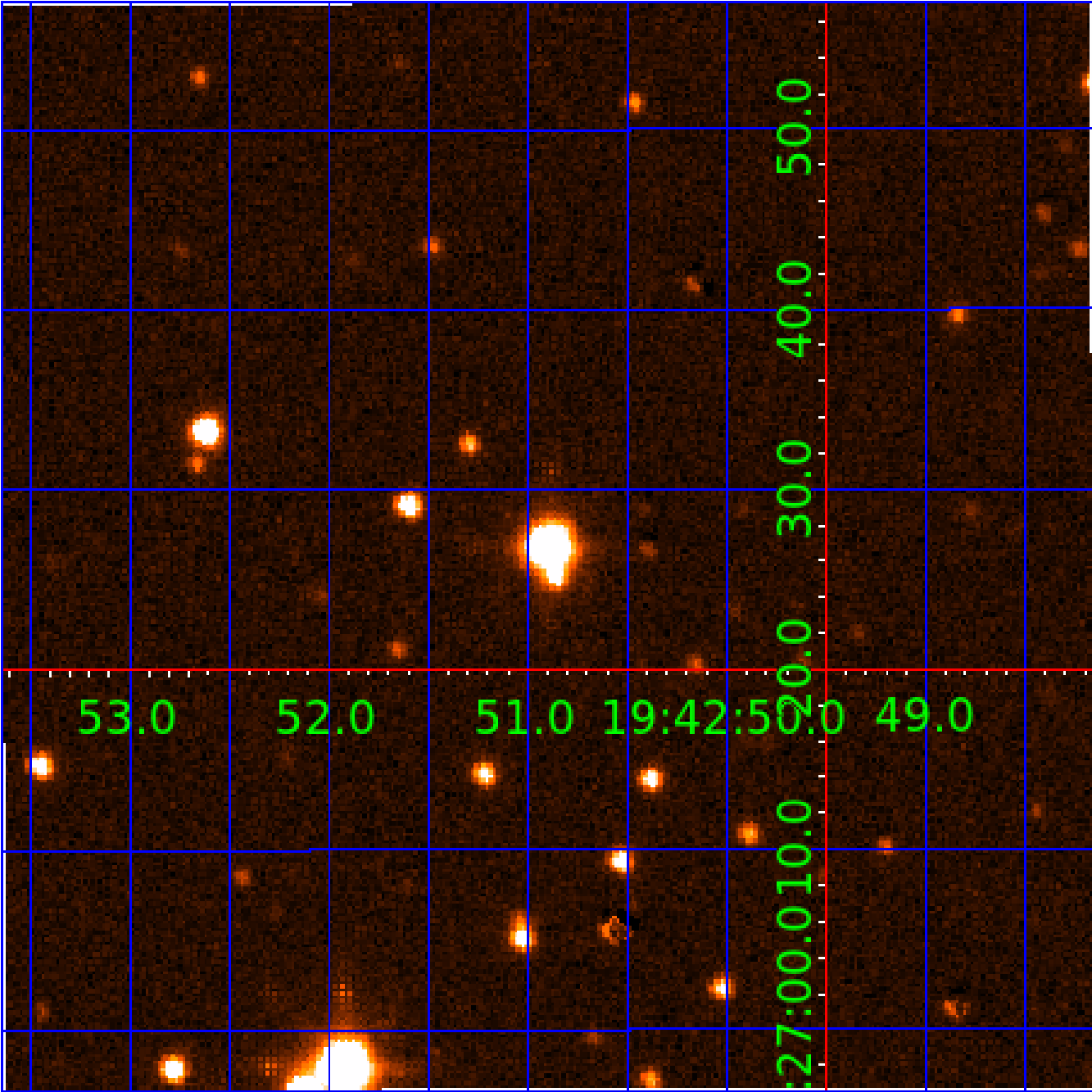


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006962752

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})
006962752-01	OBS	No	1.525805	132.313951	30.6	9.336	8.2	8.2	3.62	6472	2.02	22191.61
006962752-02	OBS	No	454.840022	149.798932	778.5	19.428	12.7	12.0	3.62	6472	11.73	11.14
006962752-03	OBS	No	50.295264	158.002948	453.5	5.008	11.8	10.4	3.62	6472	8.43	209.97
006962752-04	OBS	No	205.071687	266.848324	534.0	6.186	11.8	7.5	3.62	6472	10.28	32.23
006962752-05	OBS	No	35.607277	136.255074	560.2	7.981	11.3	11.0	3.62	6472	16.43	332.76
006962752-06	OBS	No	99.292648	156.578330	405.3	12.137	8.7	9.3	3.62	6472	8.75	84.78
006962752-07	OBS	No	57.279682	184.351622	307.5	14.332	9.0	7.6	3.62	6472	8.34	176.54

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006962752-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006962752-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
006962752-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006962752-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006962752-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT

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

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

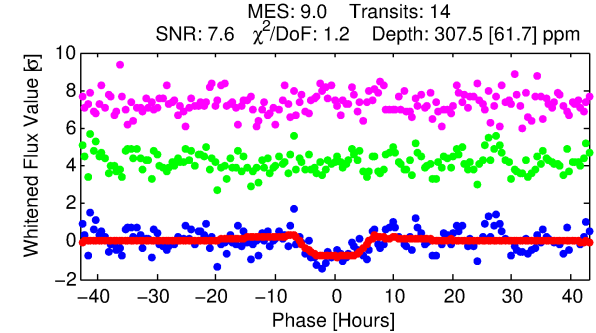
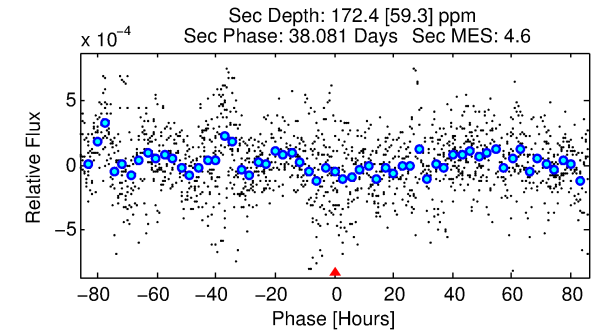
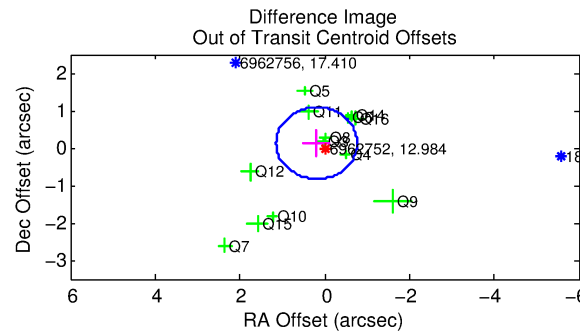
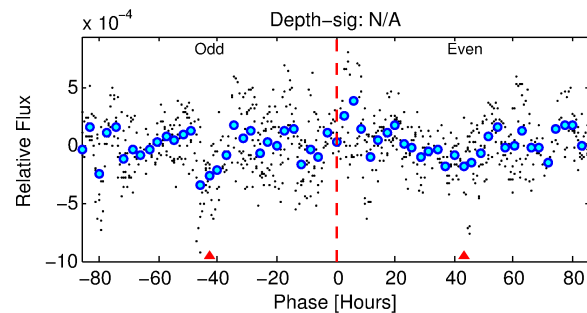
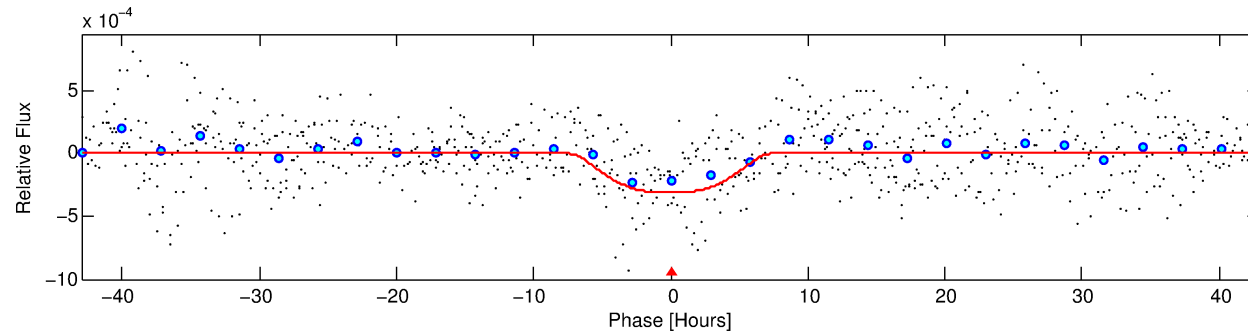
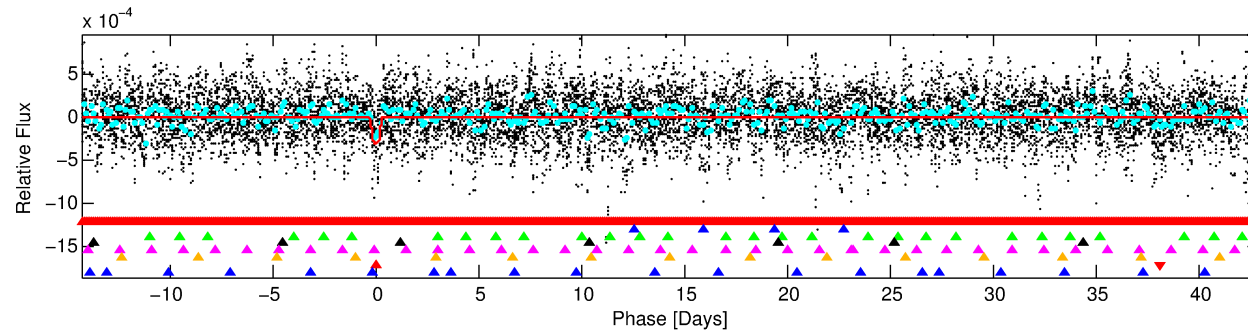
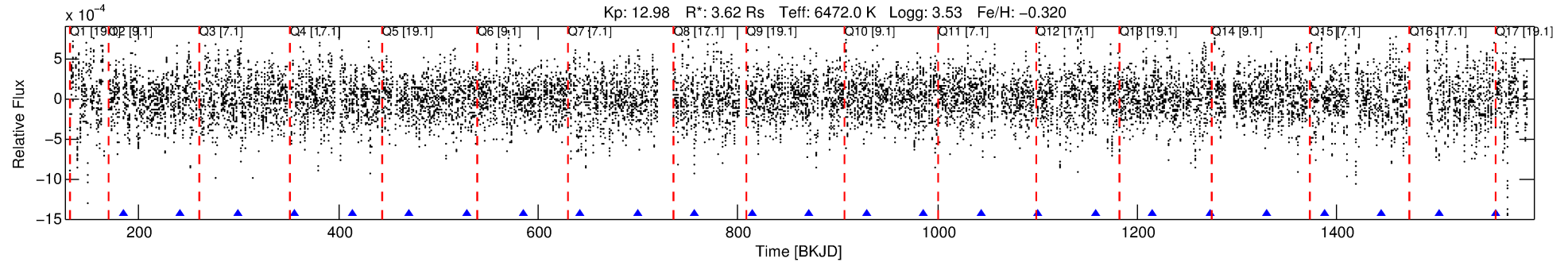
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006962752-07

No Significant Match Found

DV One-Page Summary

KIC: 6962752 Candidate: 7 of 8 Period: 57.280 d



DV Fit Results:

Period = 57.27968 [0.00295] d
Epoch = 184.3516 [0.0385] BKJD
Rp/R* = 0.0211 [0.0026]
a/R* = 9.14 [1.45]
b = 0.98 [0.01]
Seff = 176.54 [104.53]
Teq = 929 [138] K
Rp = 8.34 [3.49] Re
a = 0.3416 [0.1269] AU
Ag = 159.10 [114.53] [1.38σ]
Teffp = 5104 [558] K [7.26σ]

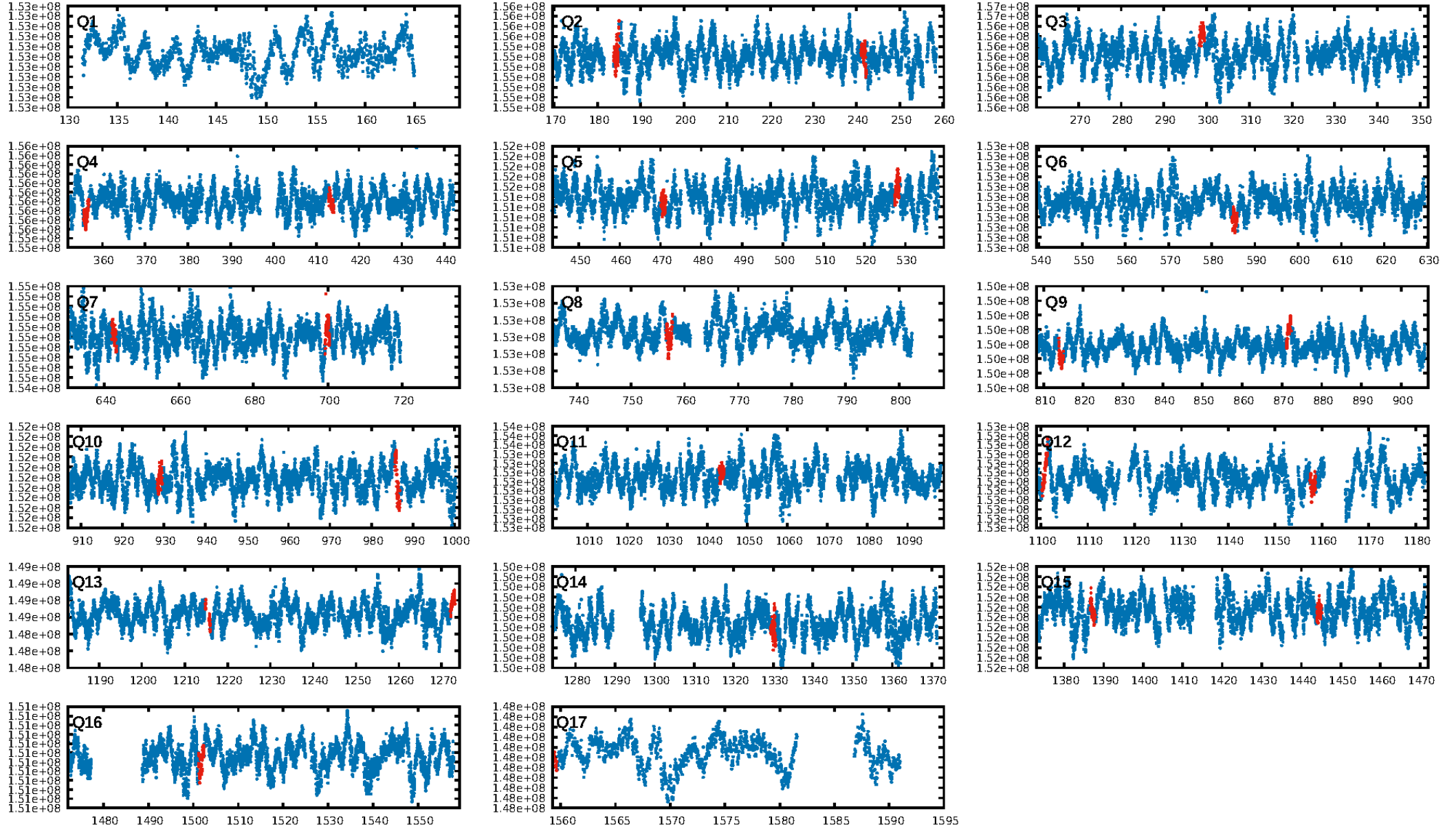
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [11.04σ]
LongPeriod-sig: 100.0% [27.09σ]
ModelChiSquare2-sig: 1.8%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [14/14]
GhostDiagnostic-chr: -0.3137
Centroid-sig: 0.0%
Centroid-so: 0.771 arcsec [3.04σ]
OotOffset-rm: 0.230 arcsec [0.72σ]
KicOffset-rm: 0.145 arcsec [0.45σ]
OotOffset-st: 3/4/4/2 [13]
KicOffset-st: 3/4/4/2 [13]
DiffImageQuality-fgm: 0.54 [7/13]
DiffImageOverlap-fno: 0.00 [0/14]

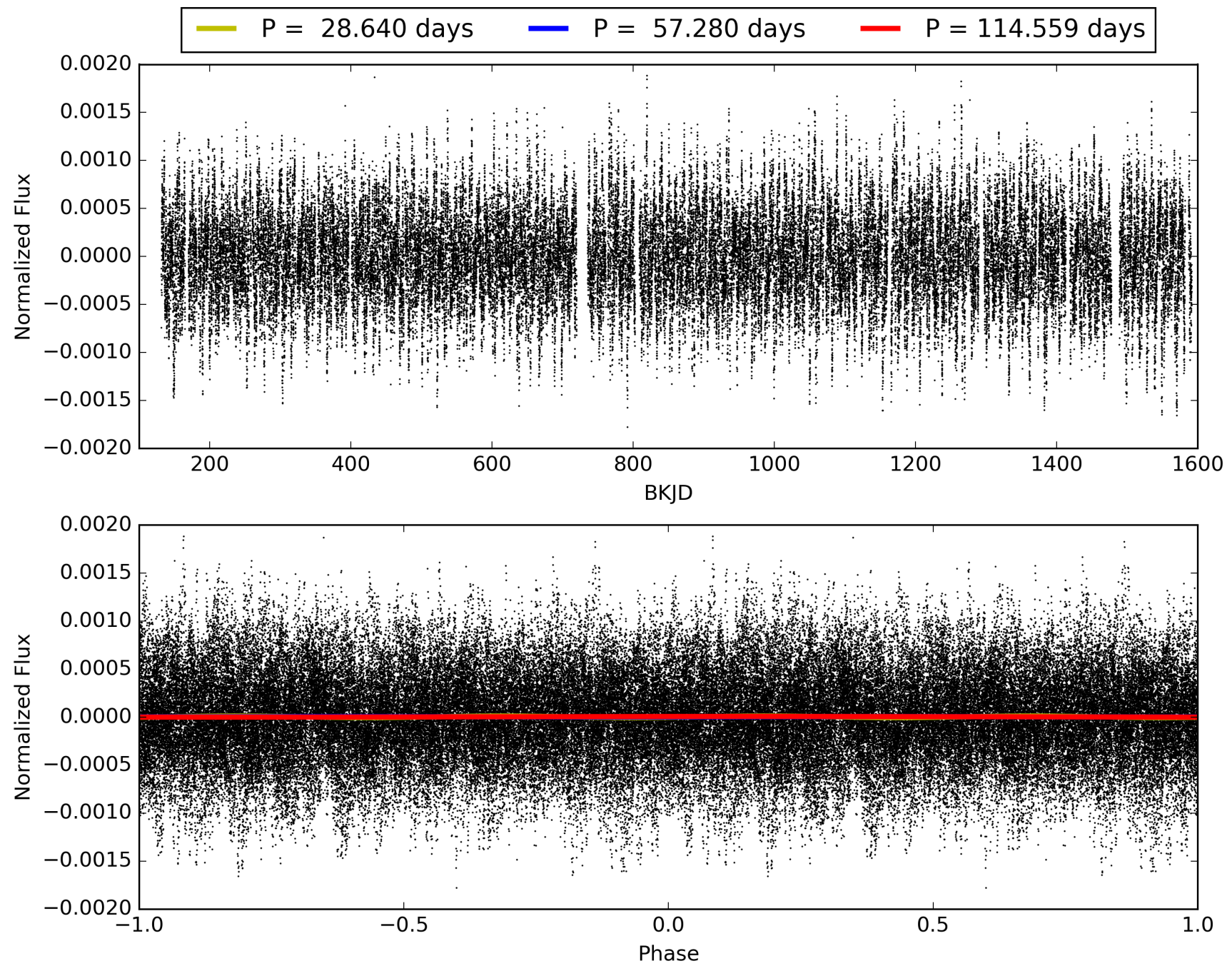
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 08:19:00 Z

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

TCE 006962752-07, PDC Light Curves

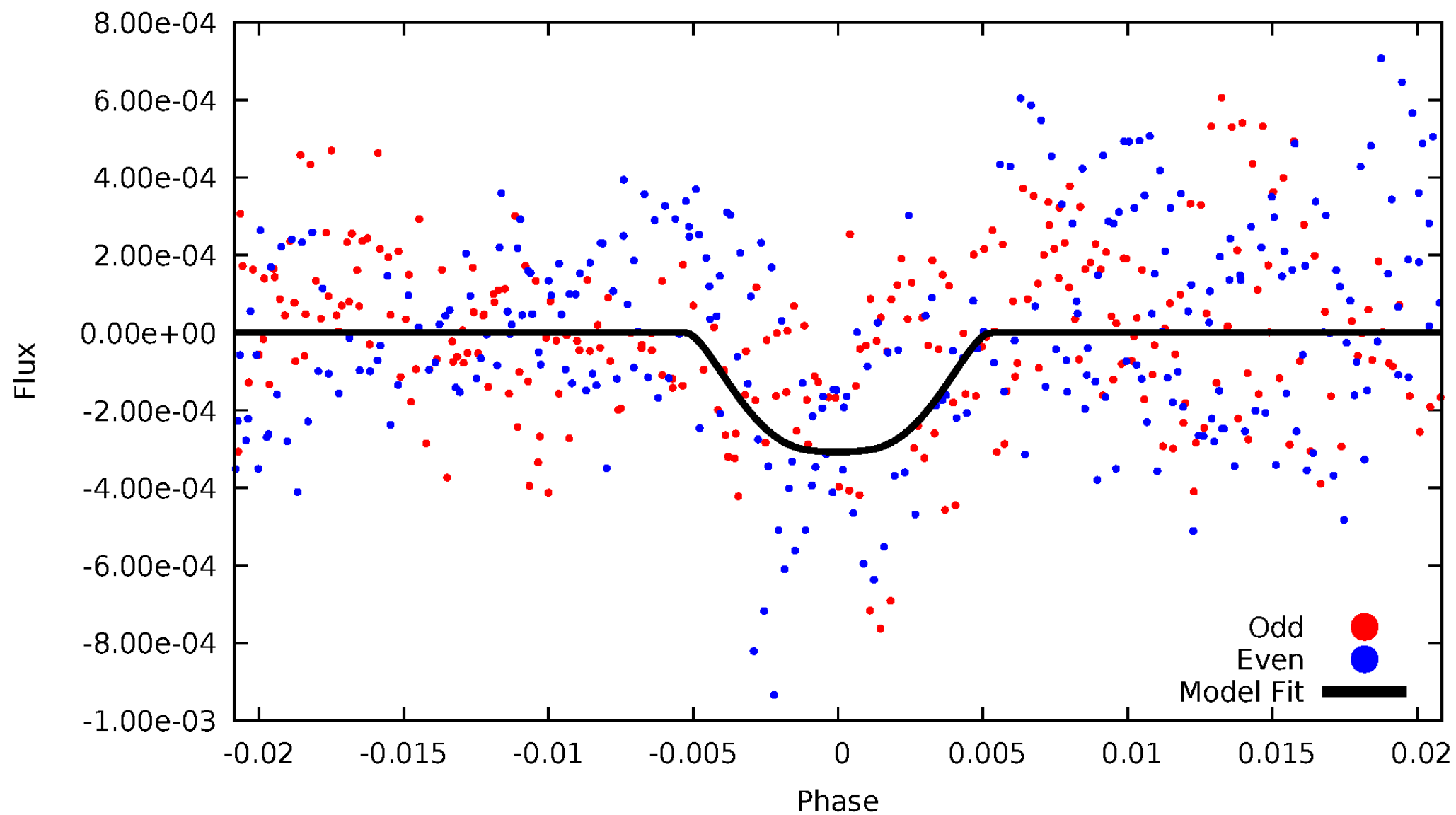


TCE 006962752-07



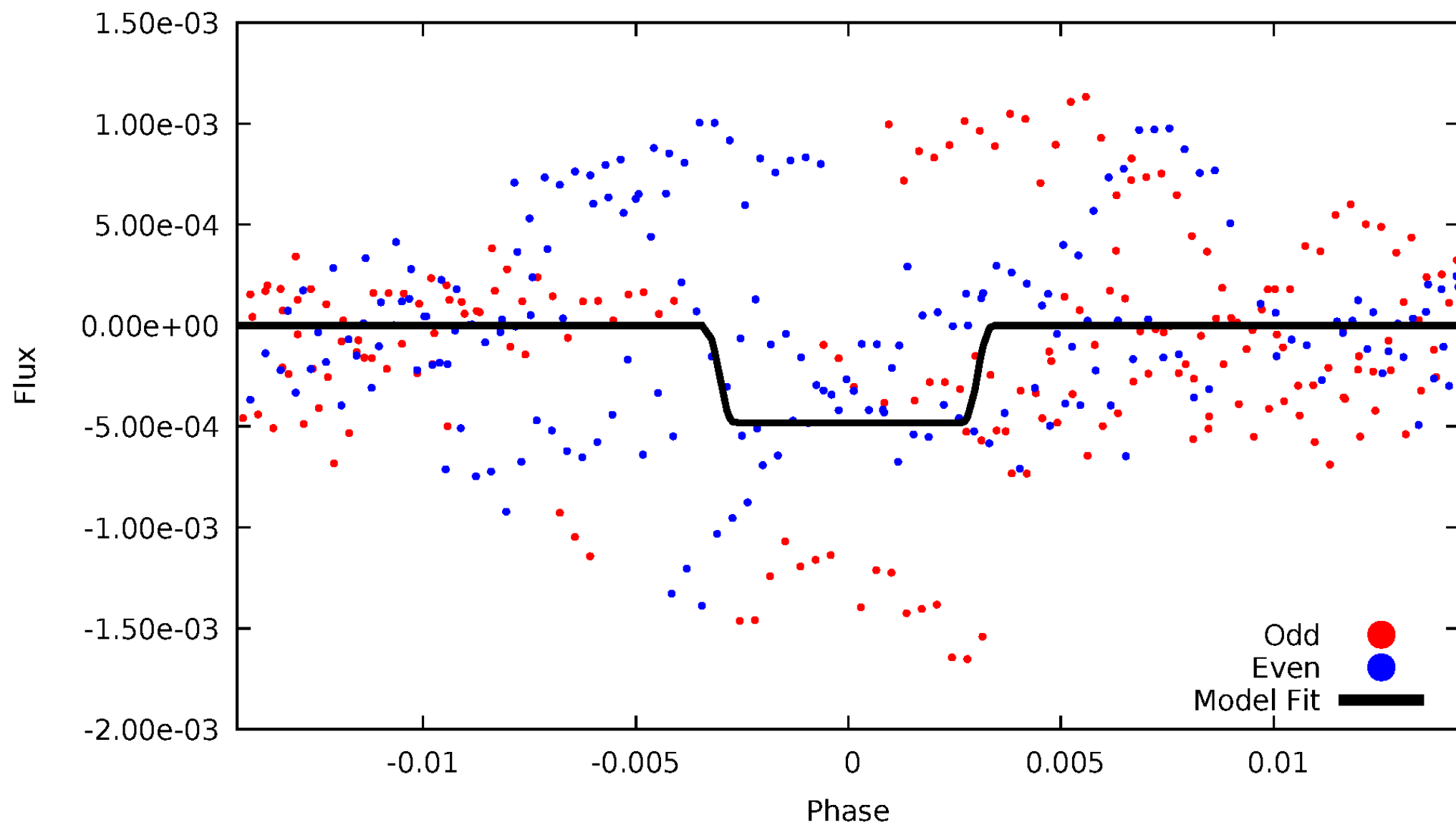
DV Odd/Even

TCE 006962752-07



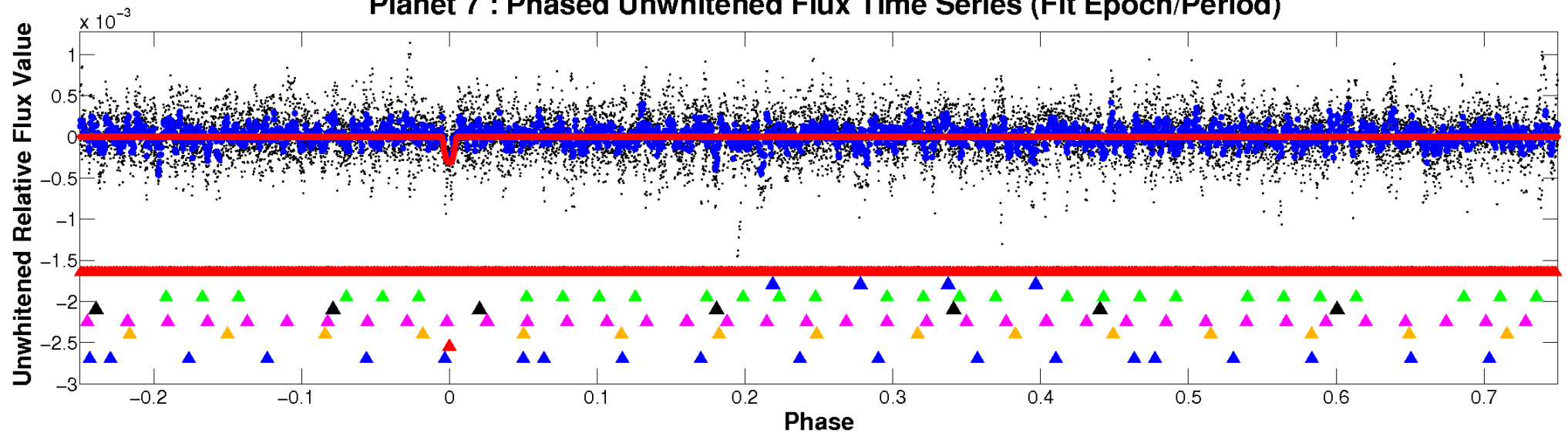
ALT Odd/Even

TCE 006962752-07

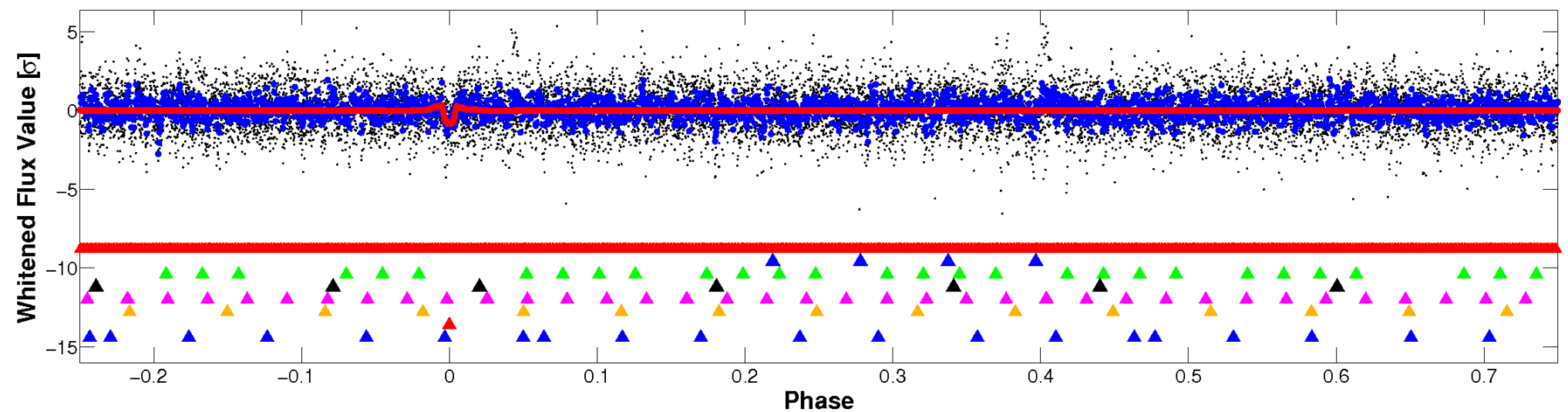


Non-Whitened Vs. Whitened Light Curve

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

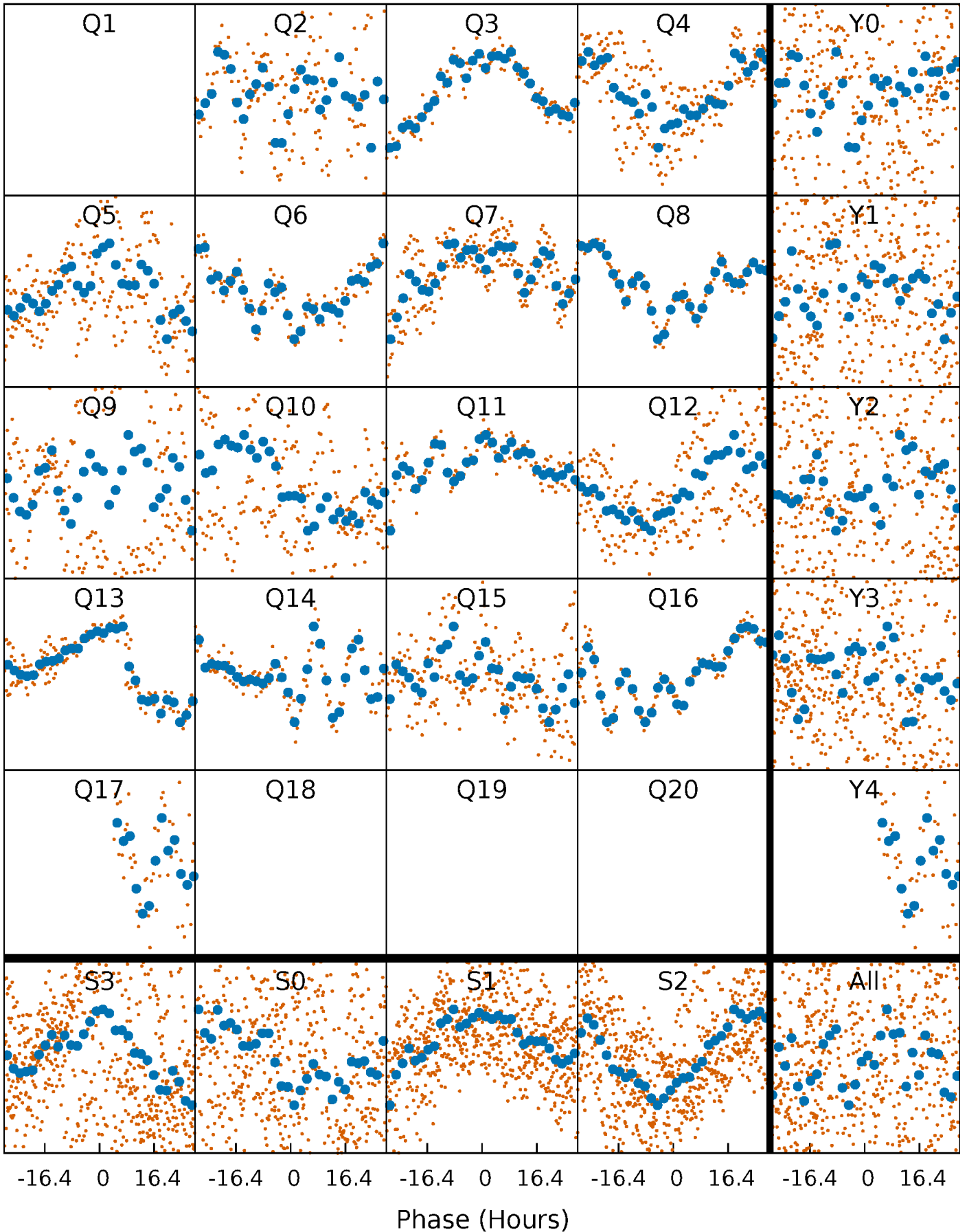


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



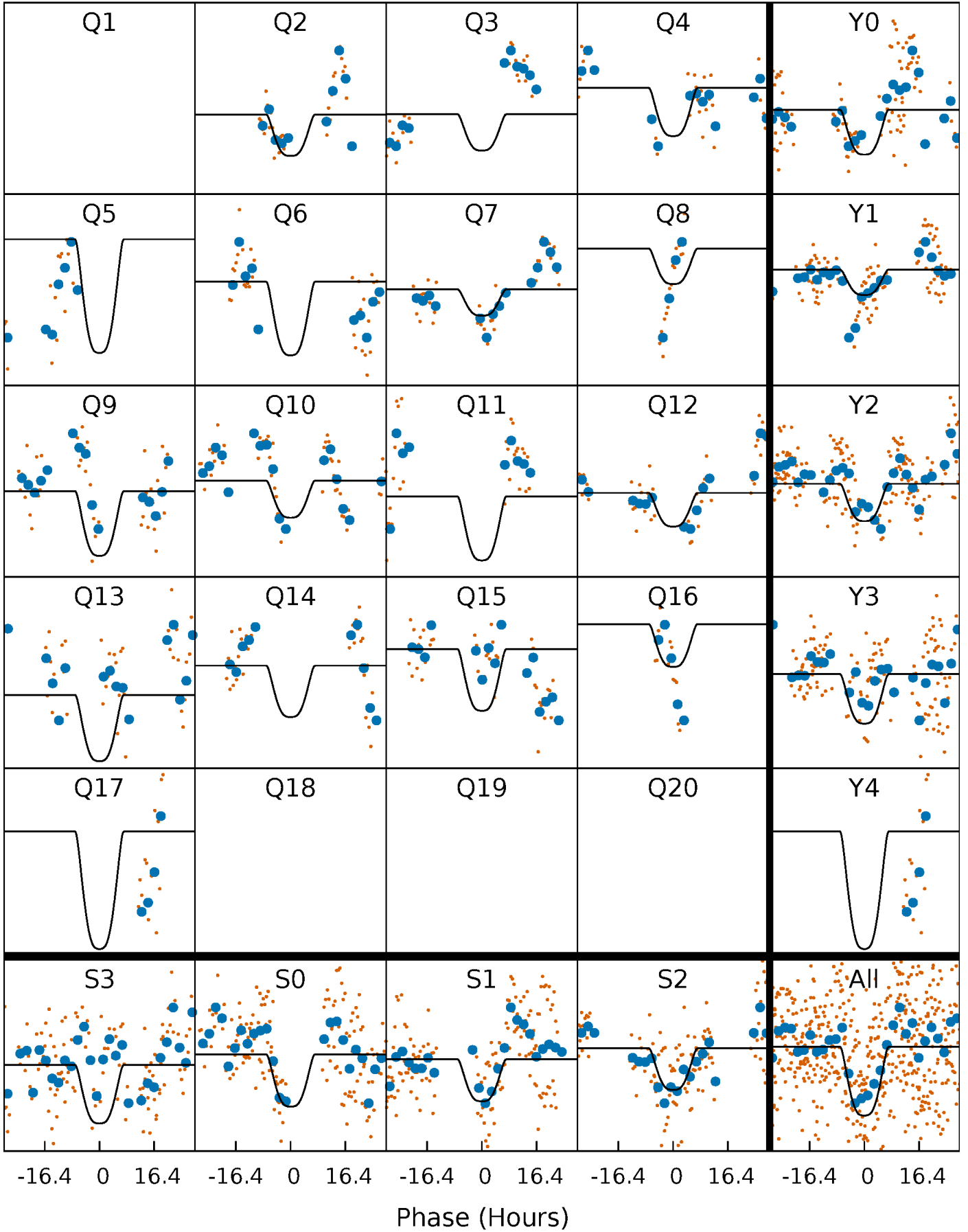
PDC Quarter-Phased Transit Curves

TCE 006962752-07 $P = 57.279682$ Days $T_0 = 184.351621$ (BKJD)



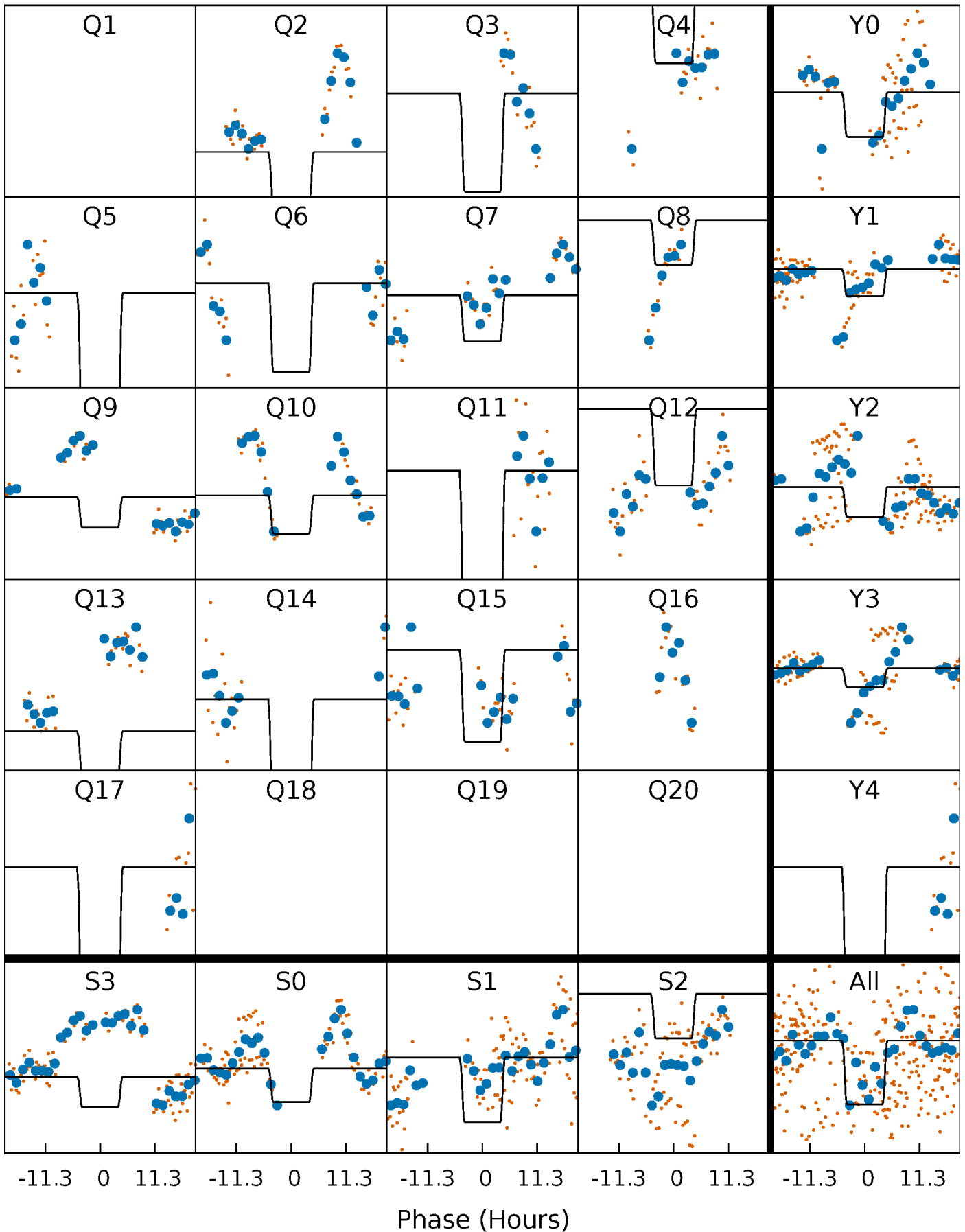
DV Quarter-Phased Transit Curves

TCE 006962752-07 P= 57.279682 Days $T_0=184.351621$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

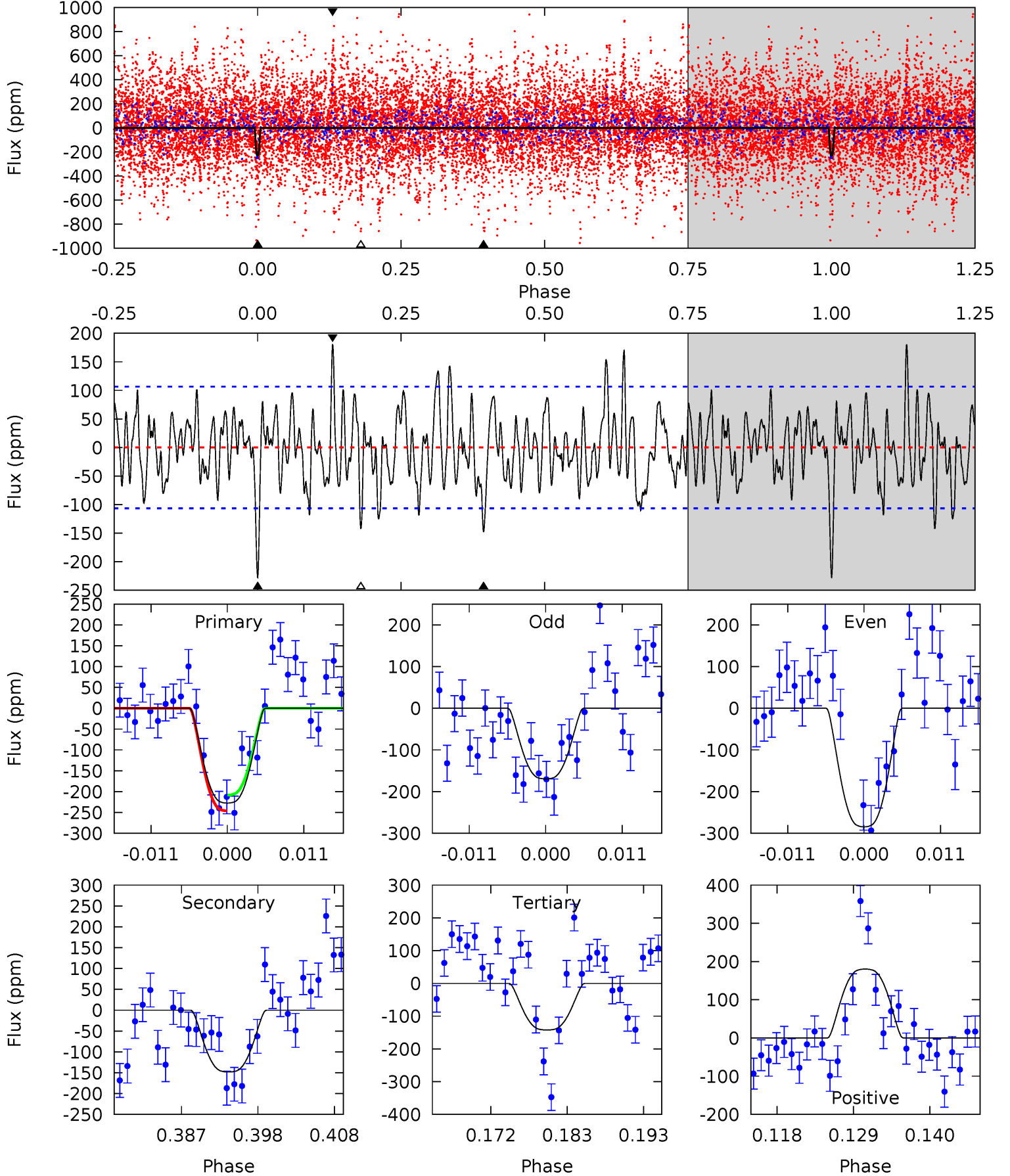
TCE 006962752-07 $P = 57.268338$ Days $T_0 = 184.536071$ (BKJD)



DV Model-Shift Uniqueness Test

006962752-07, P = 57.279682 Days, E = 127.071939 Days

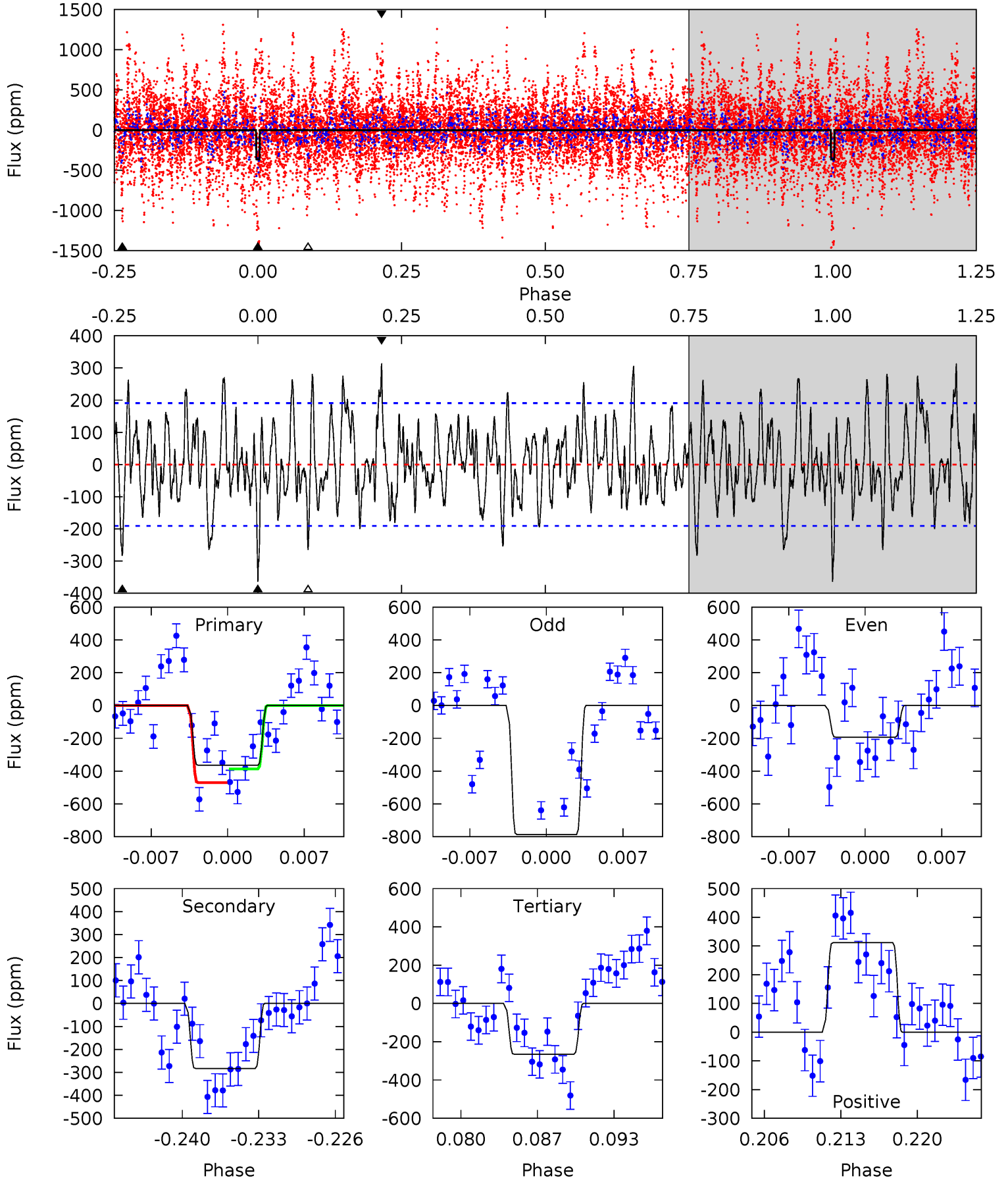
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.7	6.98	6.70	8.48	5.01	2.55	2.52	4.01	2.23	0.28	-1.50	2.70	1.07	0.44	0.90



Alt Model-Shift Uniqueness Test

006962752-07, P = 57.268338 Days, E = 127.267733 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.76	7.58	7.10	8.34	5.10	2.71	2.66	2.66	1.41	0.48	-0.77	7.36	0.52	0.46	1.07



Stellar Parameters For KIC 006962752

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6472^{+176}_{-176}	$3.530^{+0.337}_{-0.112}$	$-0.320^{+0.350}_{-0.300}$	$3.620^{+0.483}_{-1.448}$	$1.621^{+0.212}_{-0.393}$	$0.048^{+0.128}_{-0.017}$
	+3%/-3%	+10%/-3%	+109%/-94%	+13%/-40%	+13%/-24%	+267%/-36%
Source	PHO1	FLK73	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 006962752-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-148 ± 21	$8.08^{+1.62}_{-1.72}$	1282^{+75}_{-107}	4989^{+360}_{-316}	148^{+76}_{-49}
Alt.	-283 ± 37	$8.33^{+1.65}_{-1.75}$	1283^{+73}_{-127}	5675^{+364}_{-386}	264^{+144}_{-81}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

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

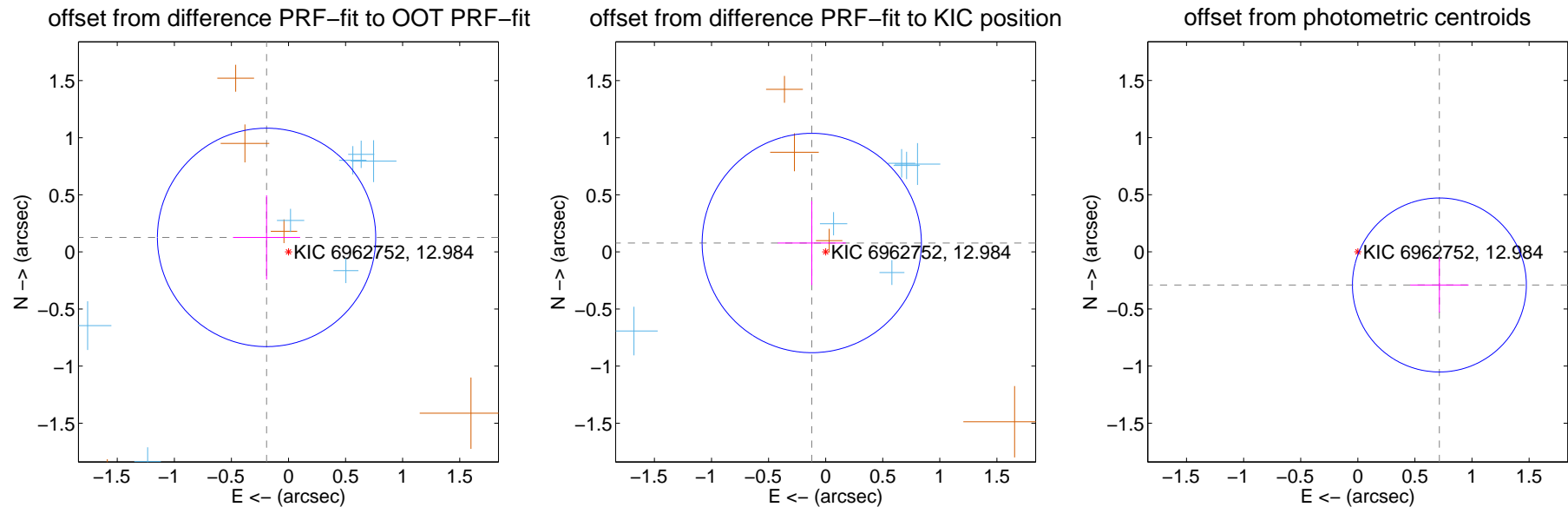
DV Centroid Data

Supplemental centroid analysis for 006962752-07. Kepler magnitude: 12.98. Transit SNR 7.62

There are 7 quarters with good PRF difference image offsets

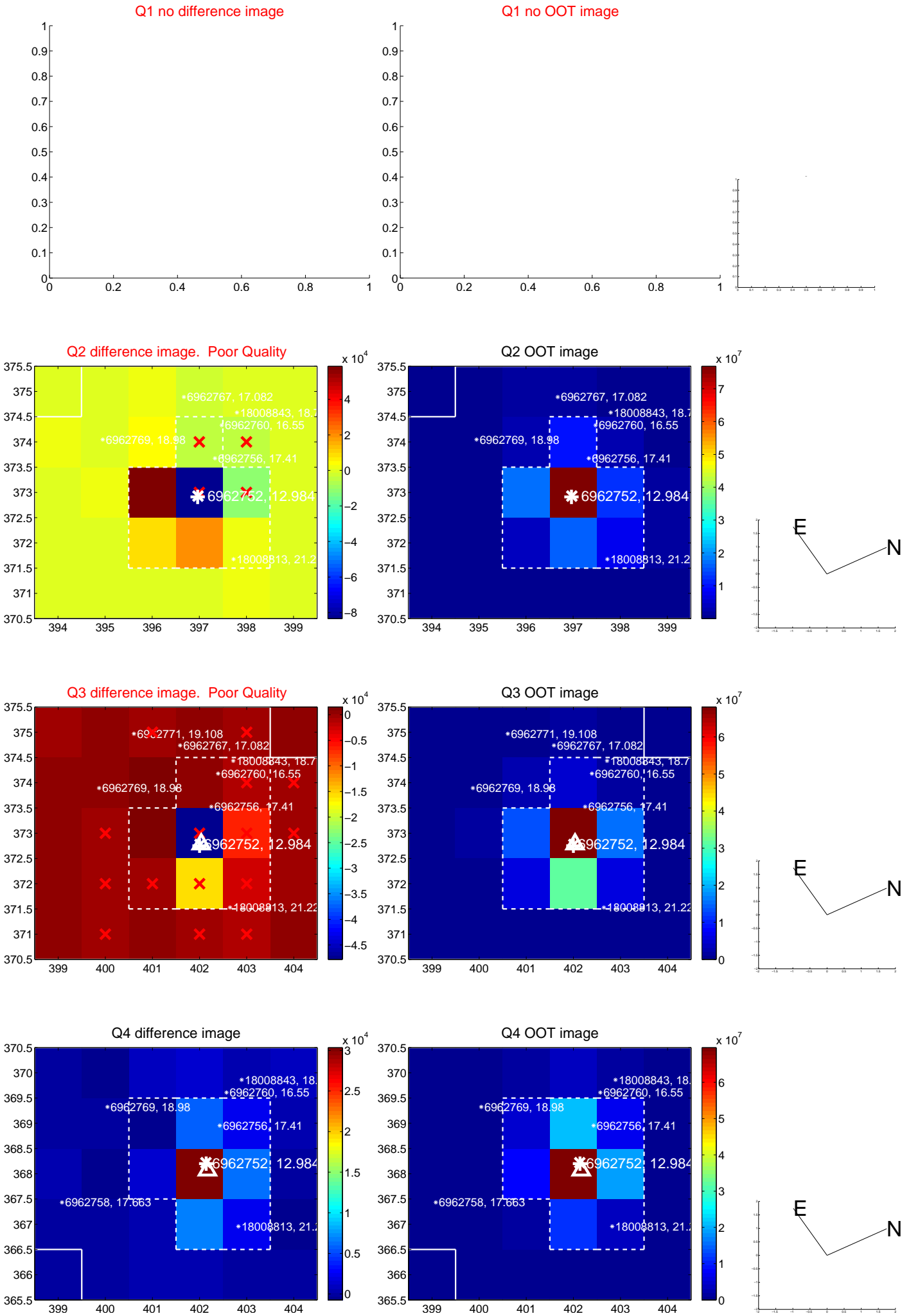
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.230 ± 0.319	0.72	0.192 ± 0.294	0.127 ± 0.369
PRF-fit source offset from KIC position	0.145 ± 0.320	0.45	0.122 ± 0.298	0.078 ± 0.368
photometric centroid source offset	0.77 ± 0.25	3.04	-0.71 ± 0.26	-0.29 ± 0.24

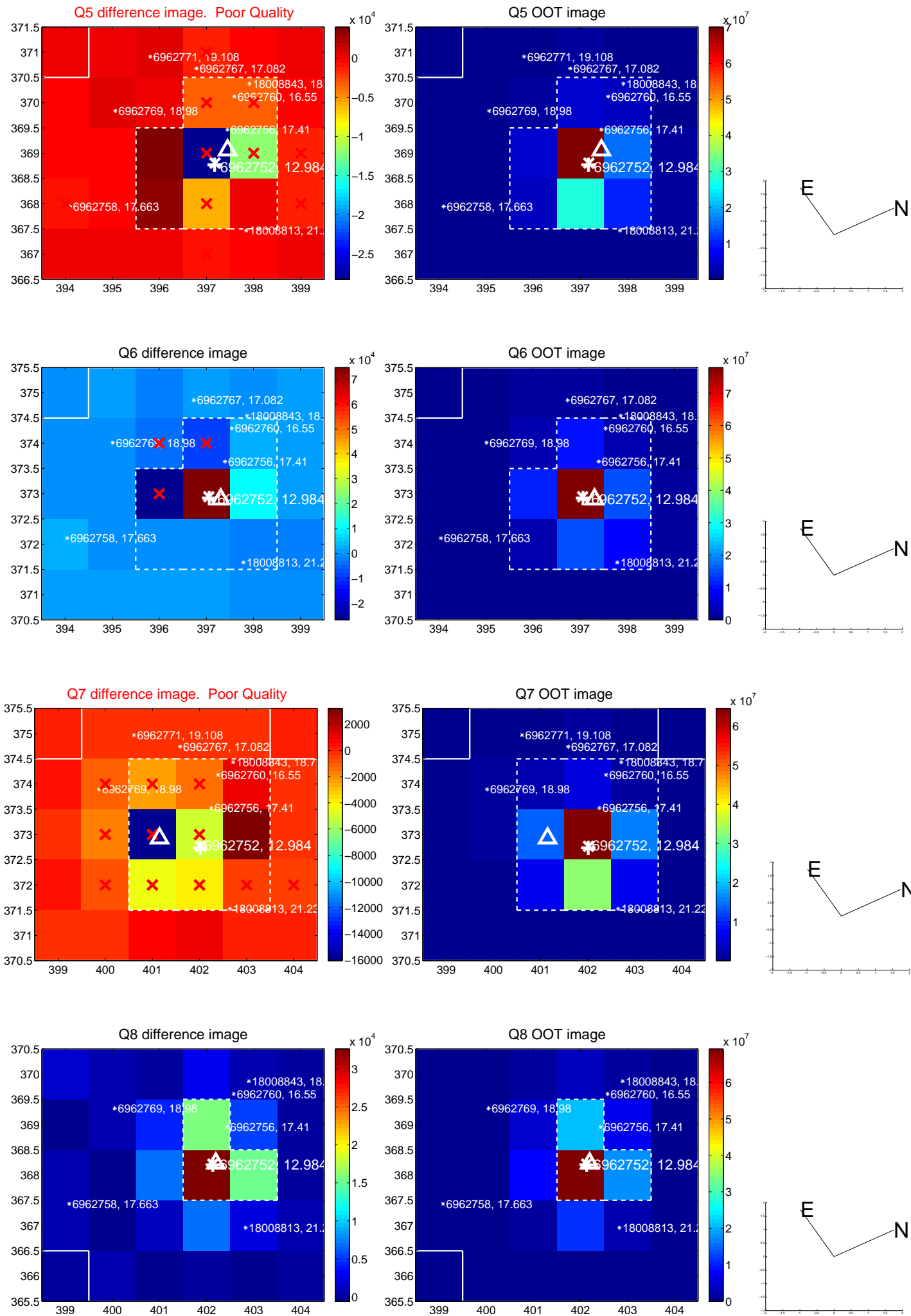


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

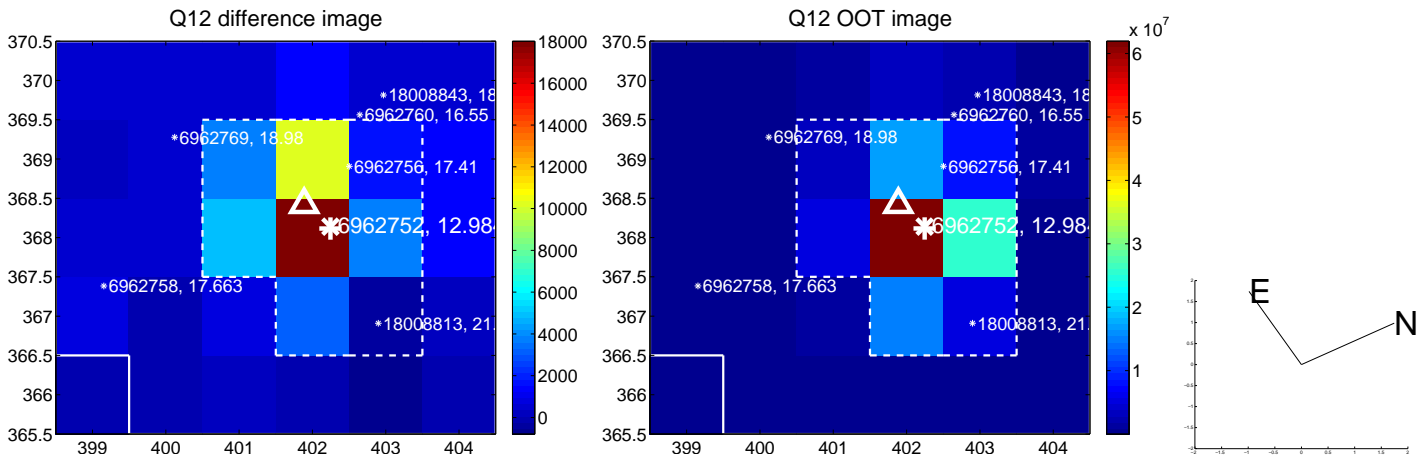
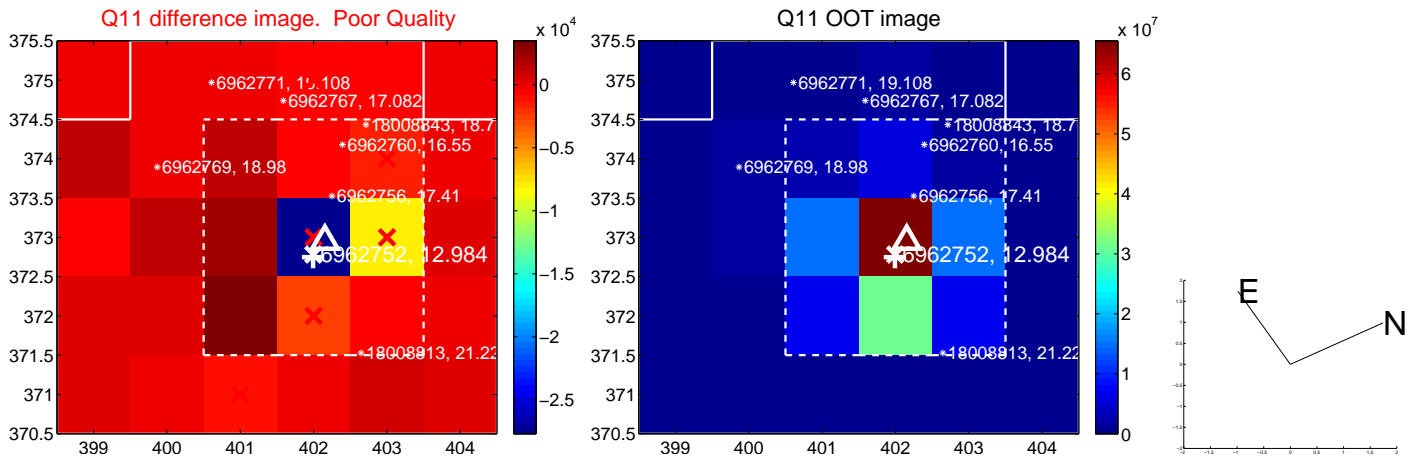
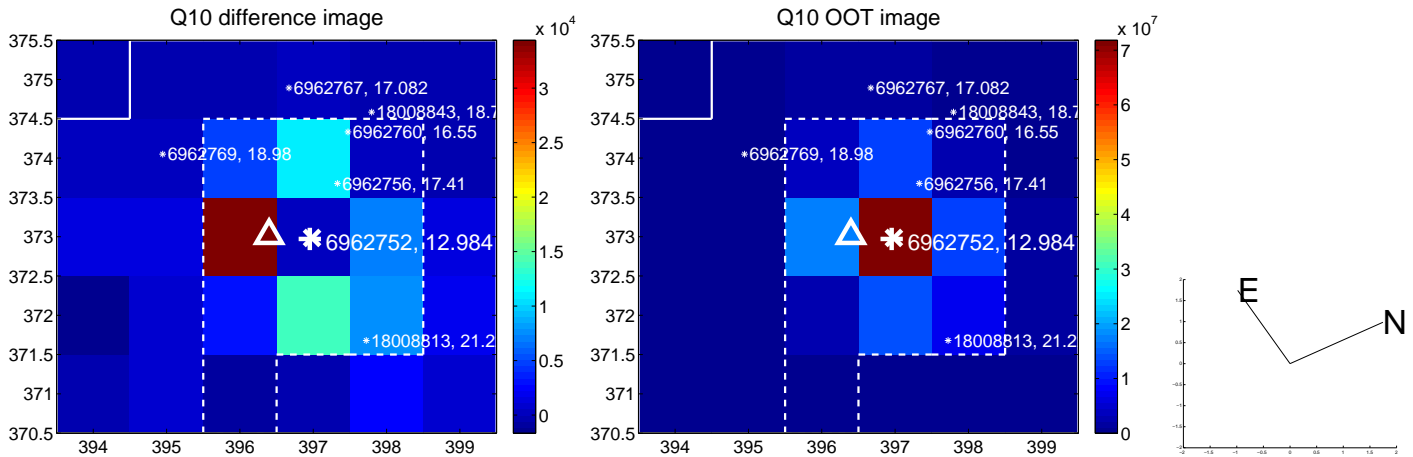
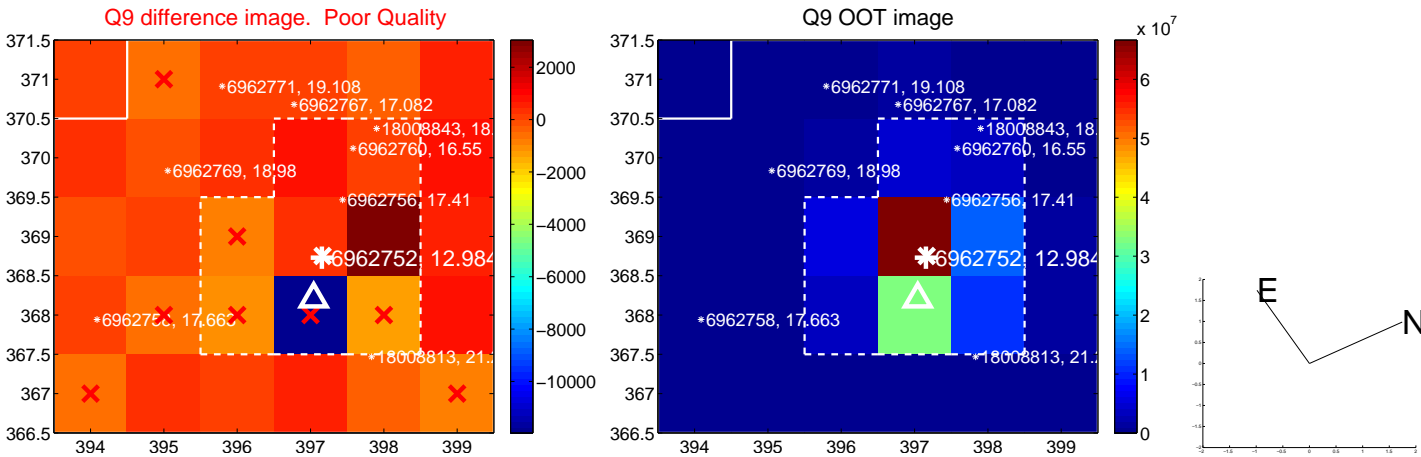
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



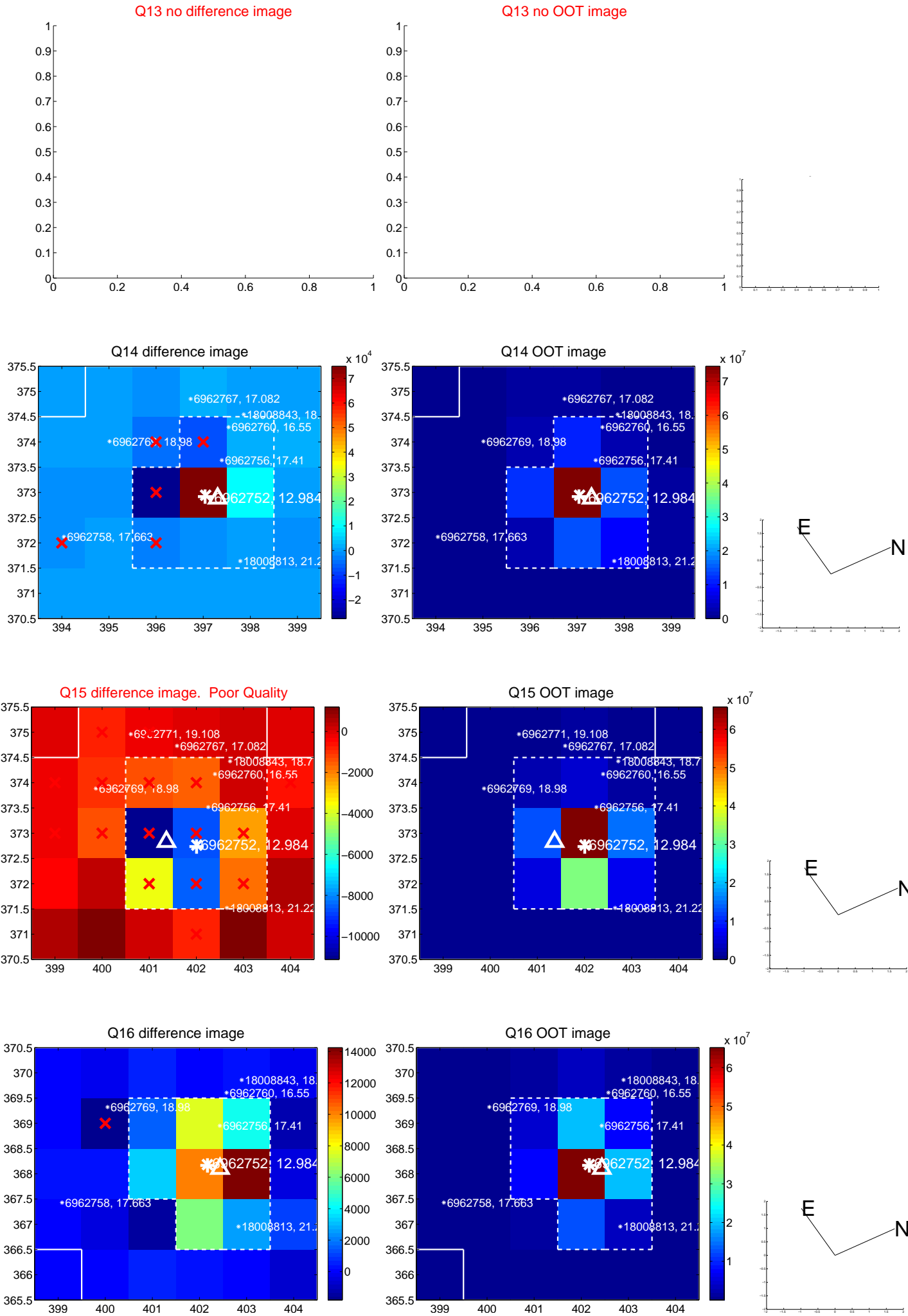
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



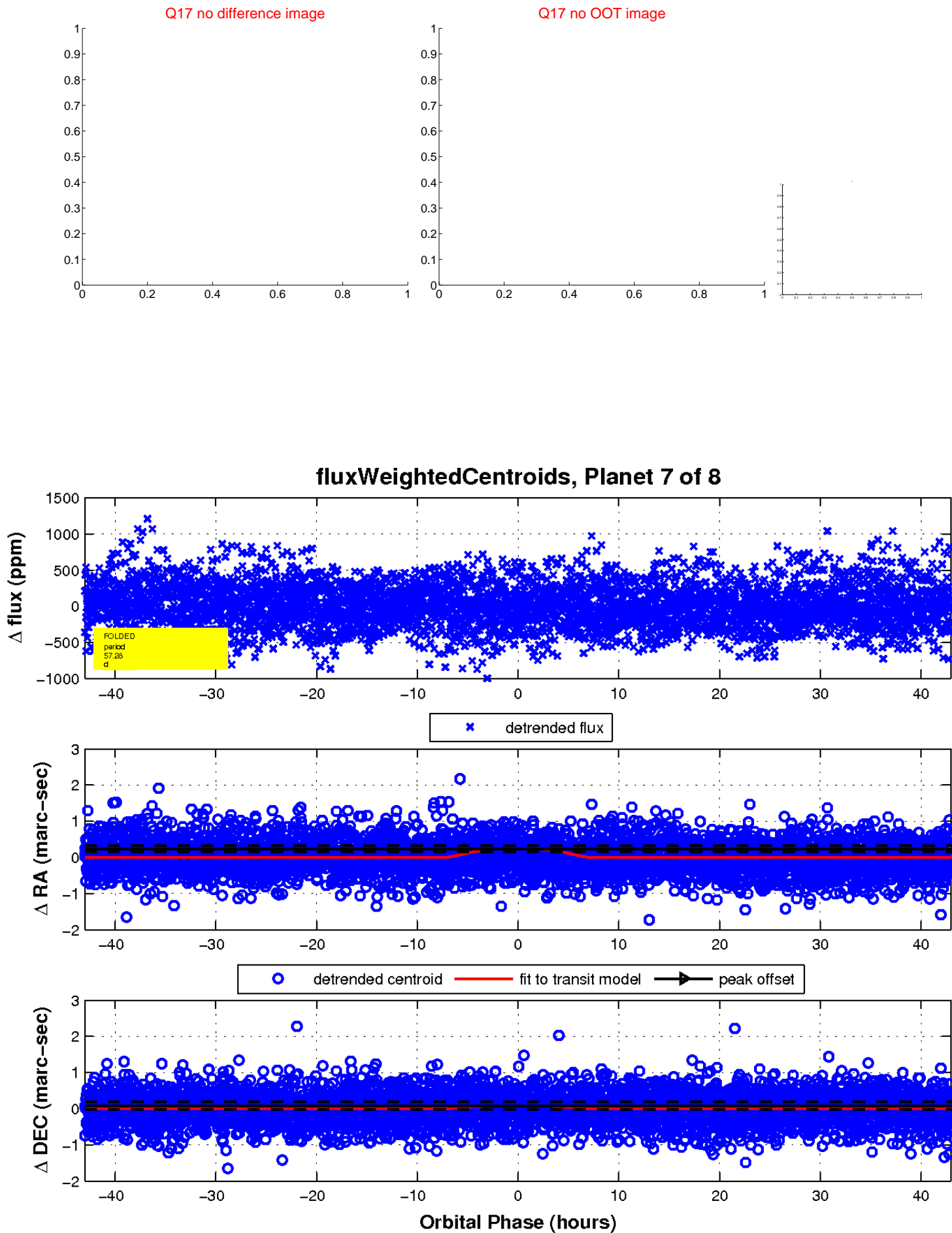
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

