

KIC 006789950

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})
006789950-01	OBS	No	1.234524	131.751596	10.9	9.255	7.9	9.9	2.19	7670	0.82	19713.74
006789950-02	OBS	No	18.319619	144.914696	217.8	1.588	14.0	15.0	2.19	7670	3.29	540.60
006789950-03	OBS	No	44.433707	165.770788	129.7	2.176	13.6	14.3	2.19	7670	2.79	165.89

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006789950-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS
006789950-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
006789950-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

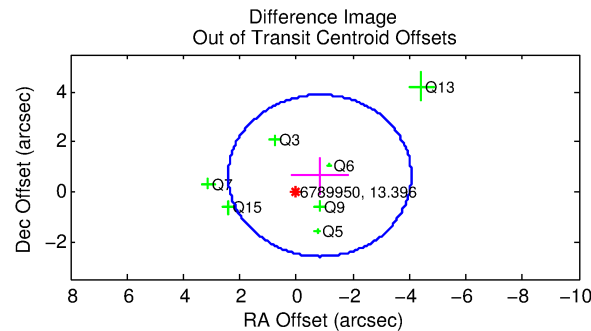
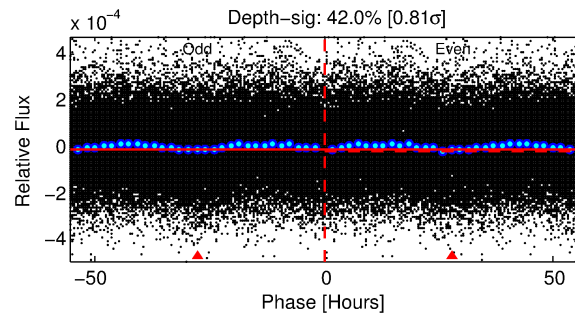
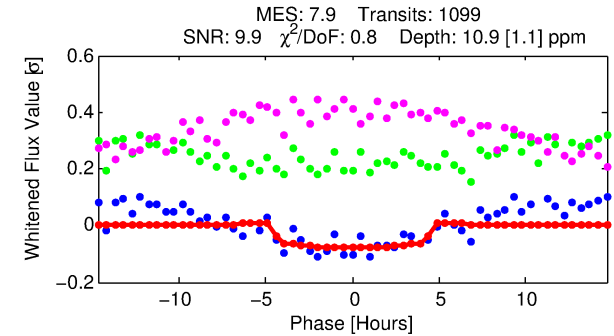
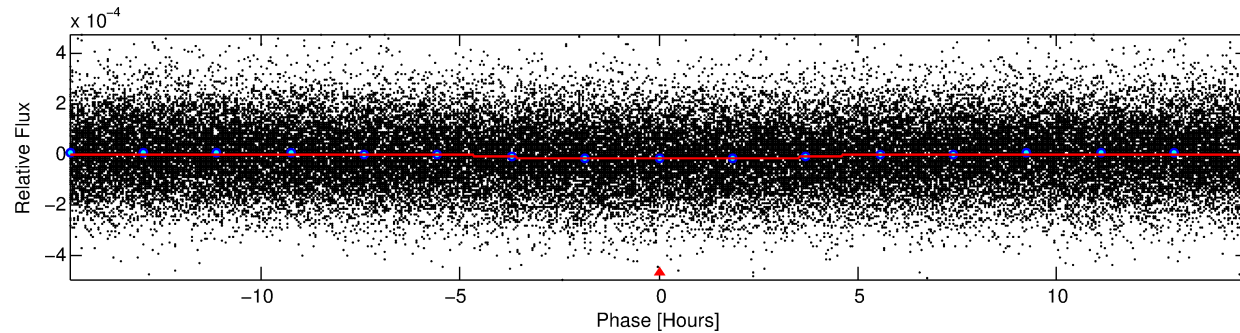
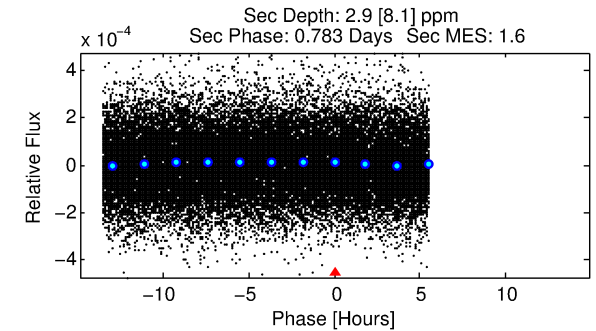
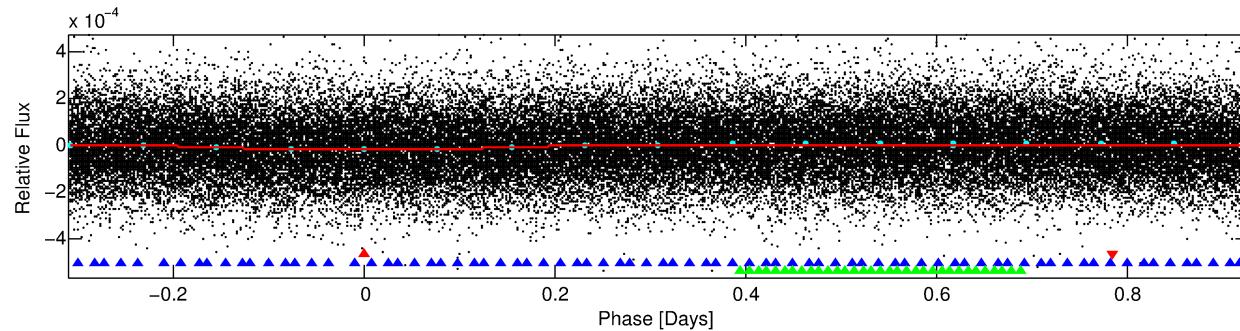
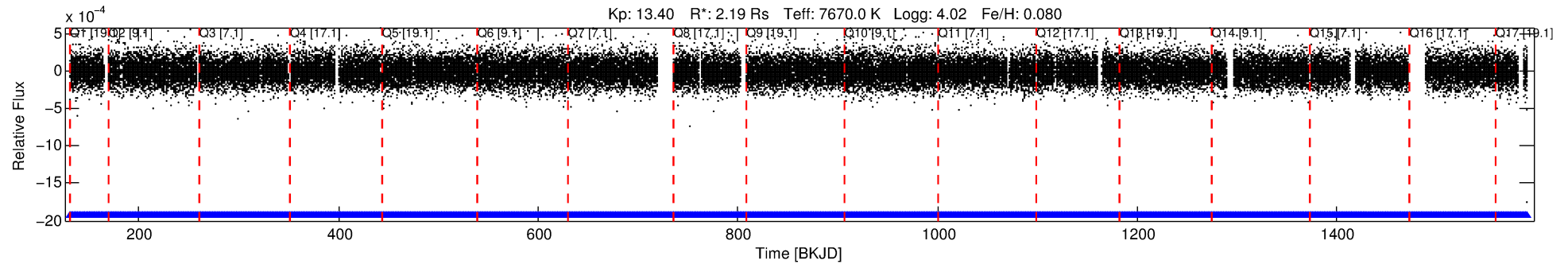
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006789950-01

No Significant Match Found

DV One-Page Summary

KIC: 6789950 Candidate: 1 of 3 Period: 1.235 d



DV Fit Results:

Period = 1.23452 [0.00002] d
Epoch = 131.7516 [0.0083] BKJD
Rp/R* = 0.0034 [0.0021]
a/R* = 1.06 [0.48]
b = 0.86 [1.24]
Seff = 19713.74 [7184.11]
Teff = 3021 [275] K
Rp = 0.82 [0.53] Re
a = 0.0275 [0.0059] AU
Ag = 1.79 [5.54] [0.14σ]
Teffp = 5406 [4160] K [0.57σ]

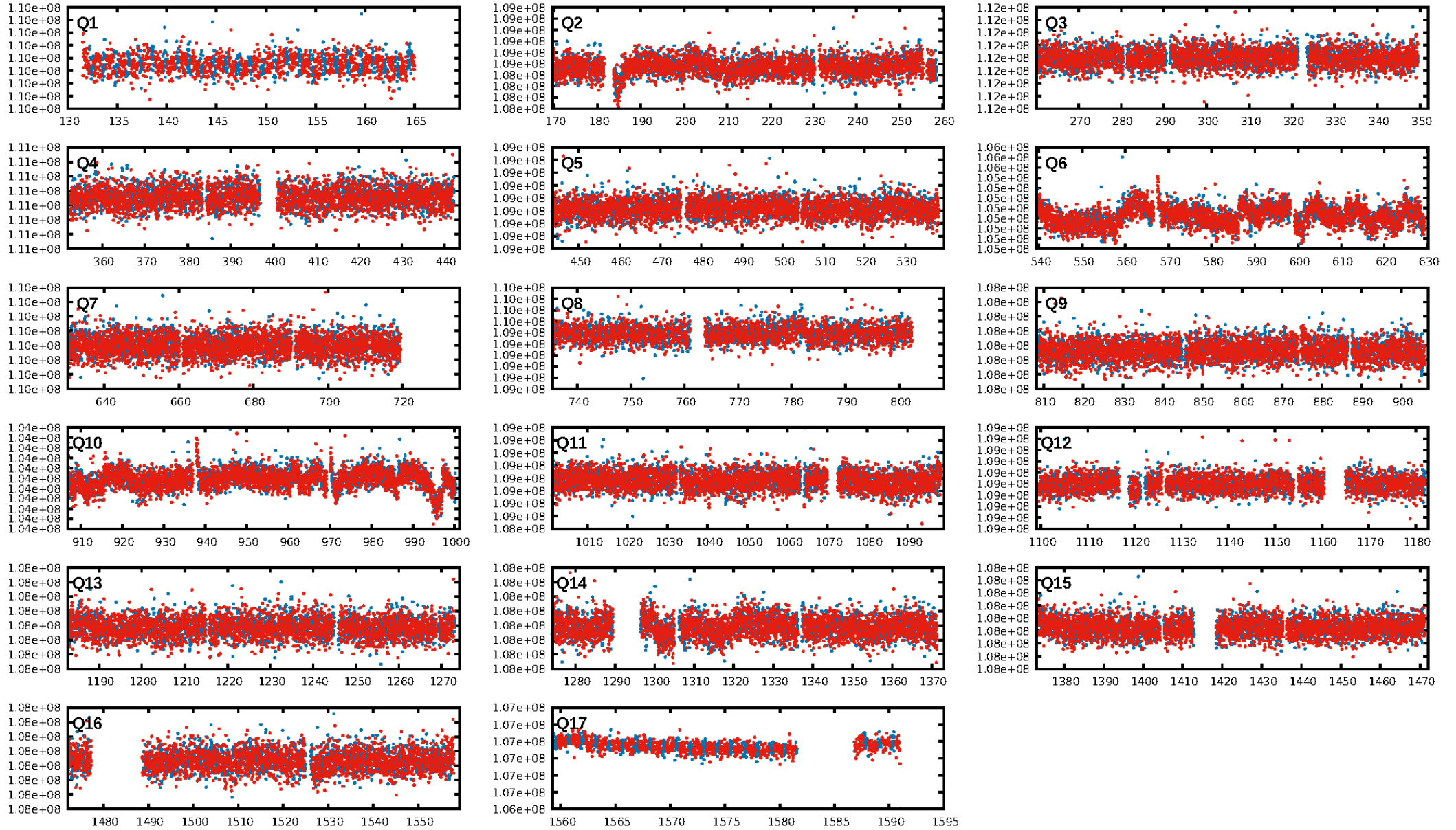
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [43.67σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.25e-100
RollingBand-fgt: 1.00 [1049/1049]
GhostDiagnostic-chr: 1.629
Centroid-sig: 4.0%
Centroid-so: 1.533 arcsec [1.24σ]
OotOffset-rm: 1.047 arcsec [0.97σ]
KicOffset-rm: 1.086 arcsec [1.04σ]
OotOffset-st: 1/3/0/3 [7]
KicOffset-st: 1/3/0/3 [7]
DiffImageQuality-fgm: 0.43 [3/7]
DiffImageOverlap-fno: 1.00 [17/17]

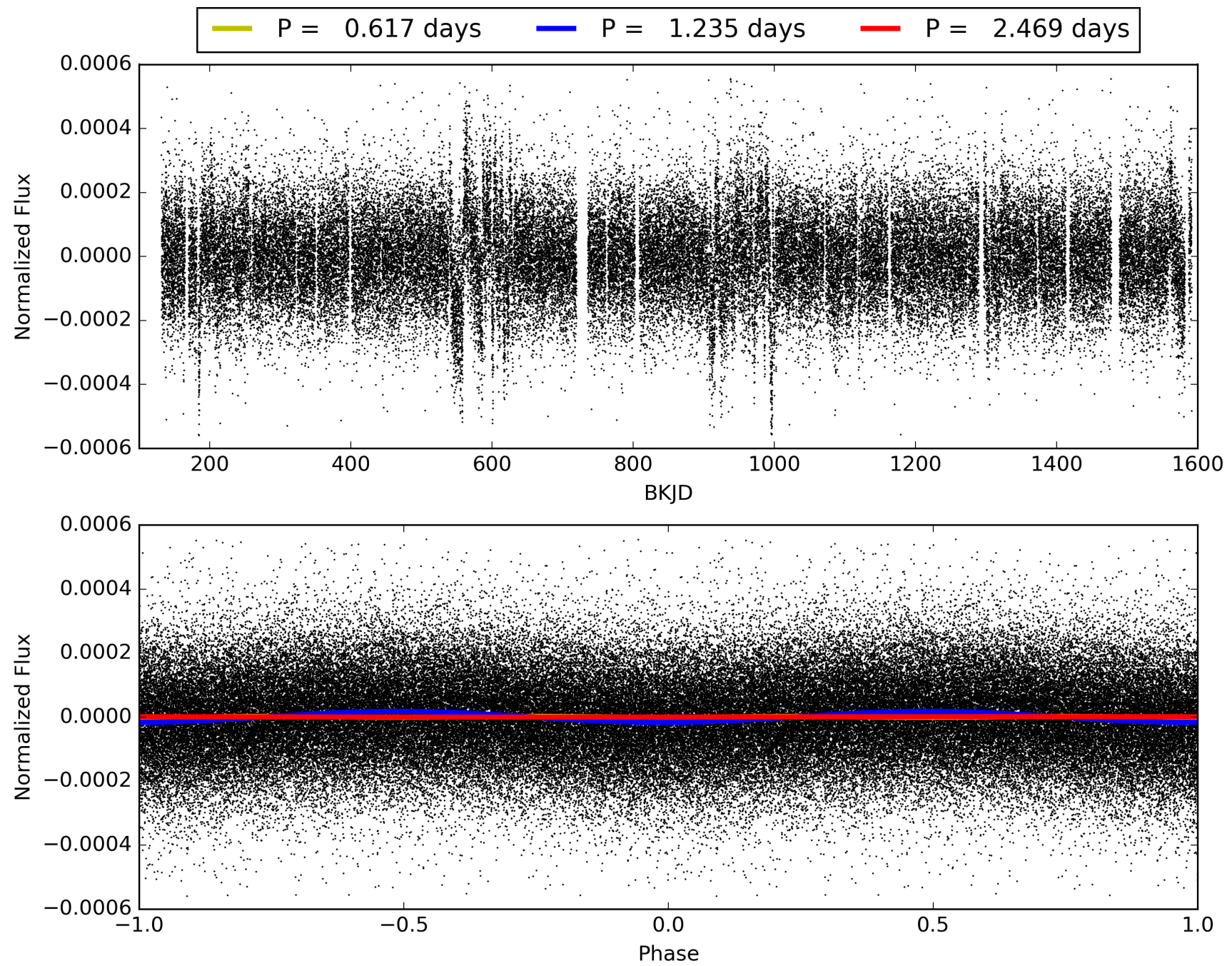
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 21:34:54 Z

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

TCE 006789950-01, PDC Light Curves

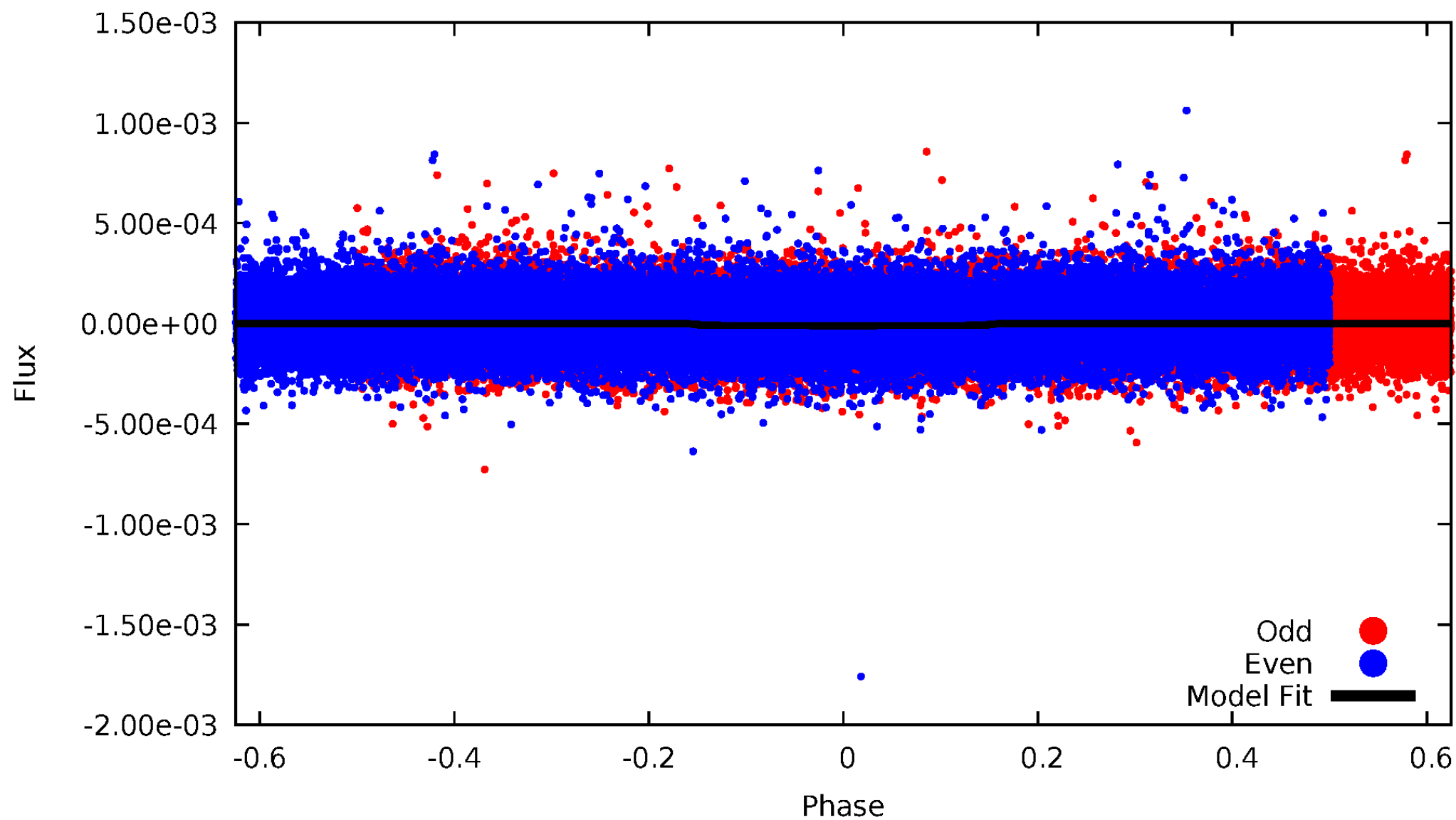


TCE 006789950-01



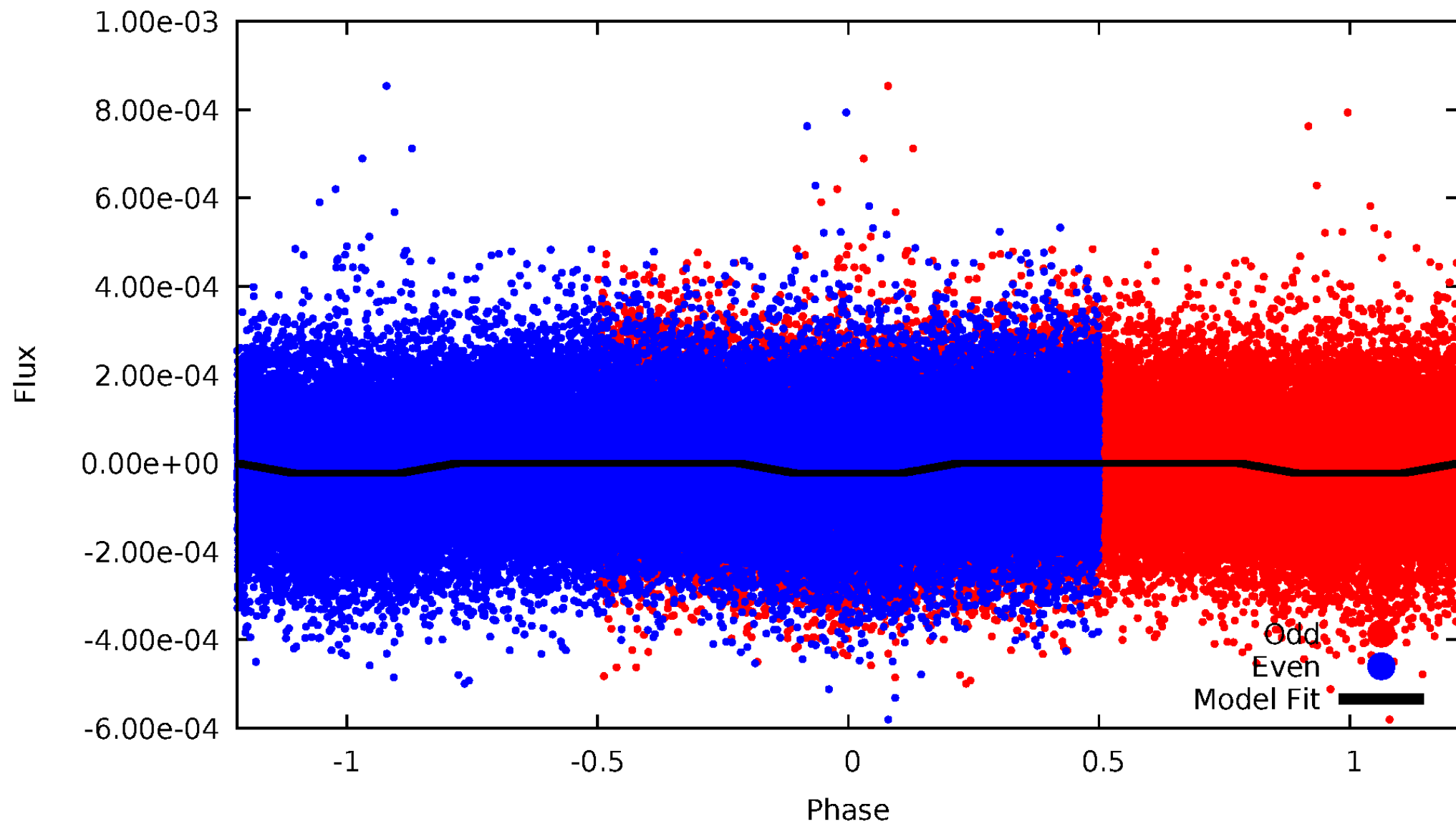
DV Odd/Even

TCE 006789950-01

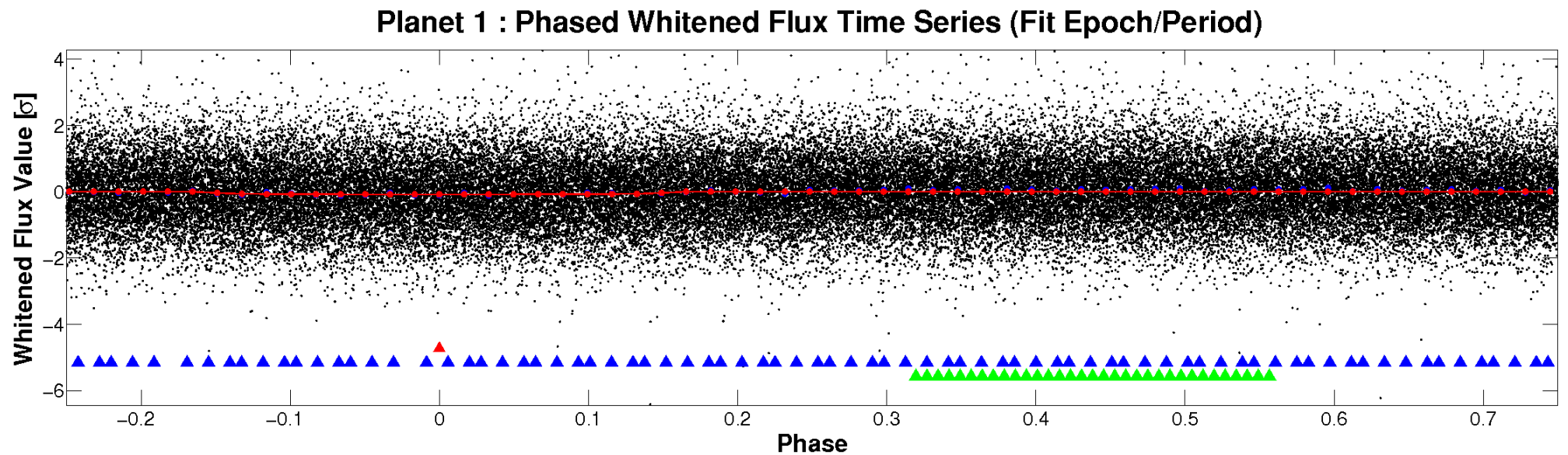
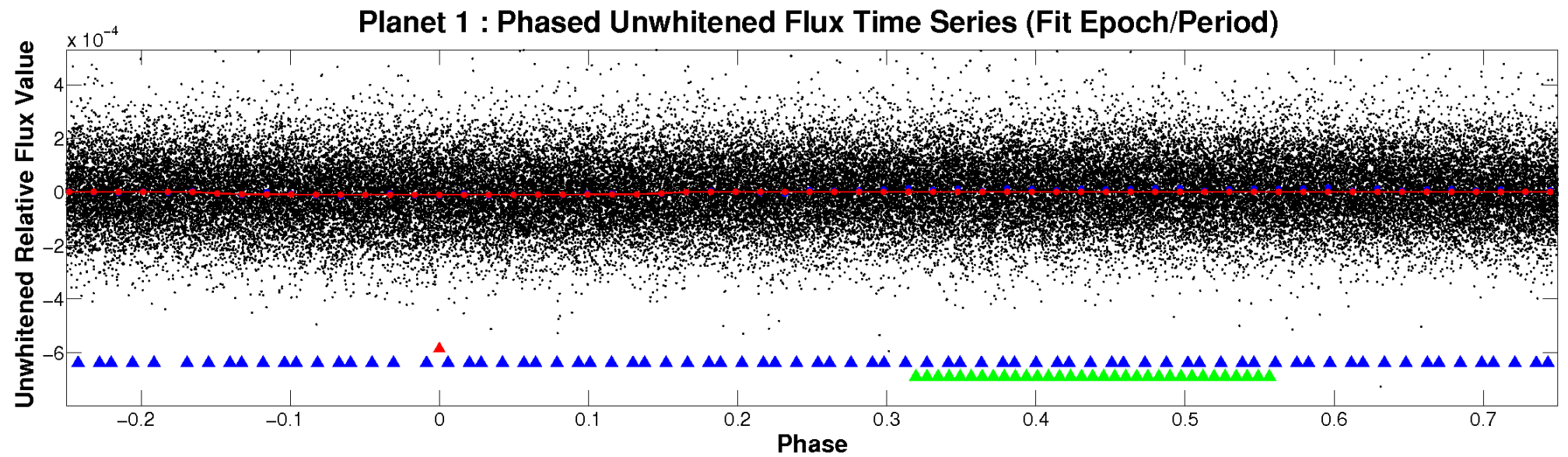


ALT Odd/Even

TCE 006789950-01

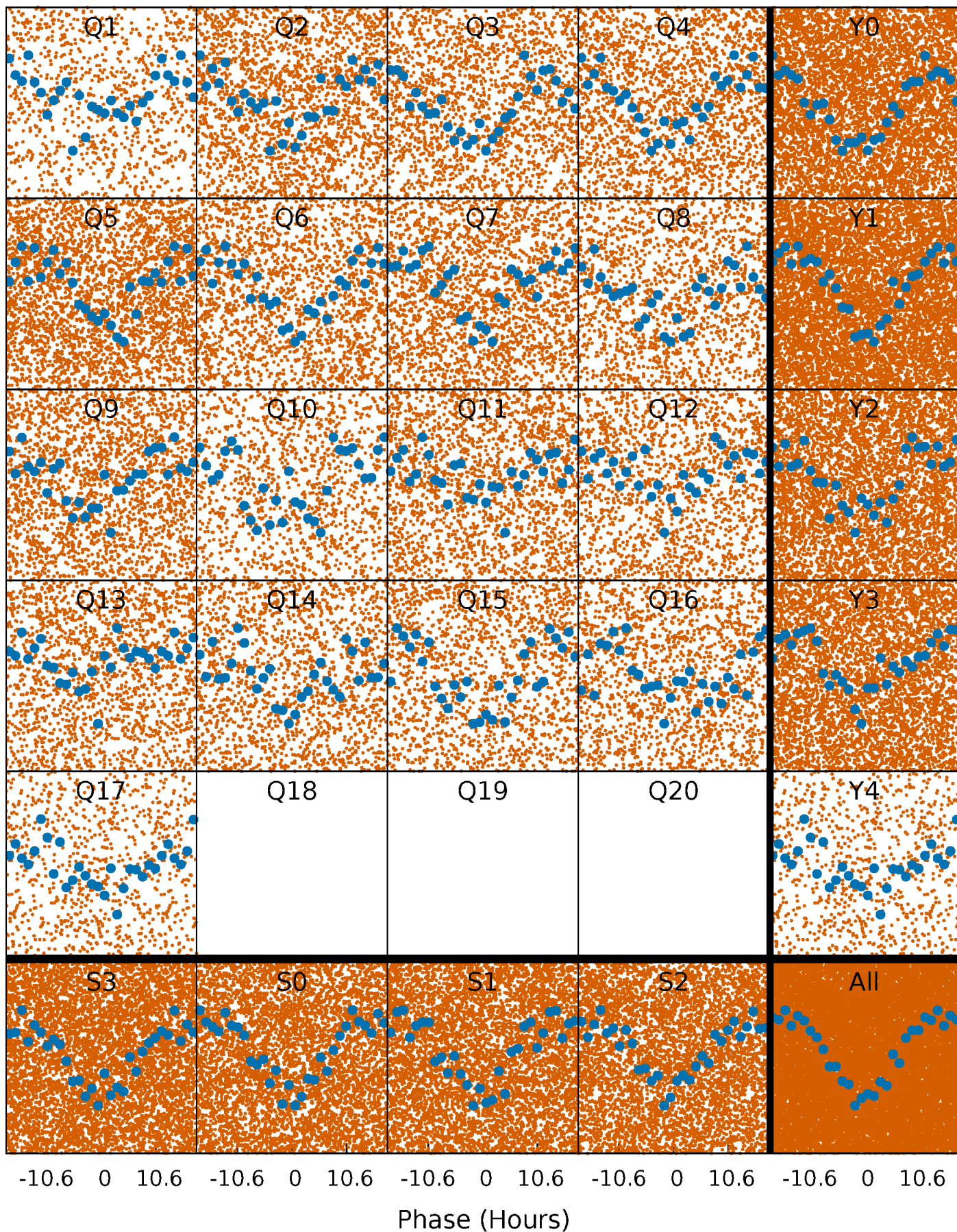


Non-Whitened Vs. Whitened Light Curve



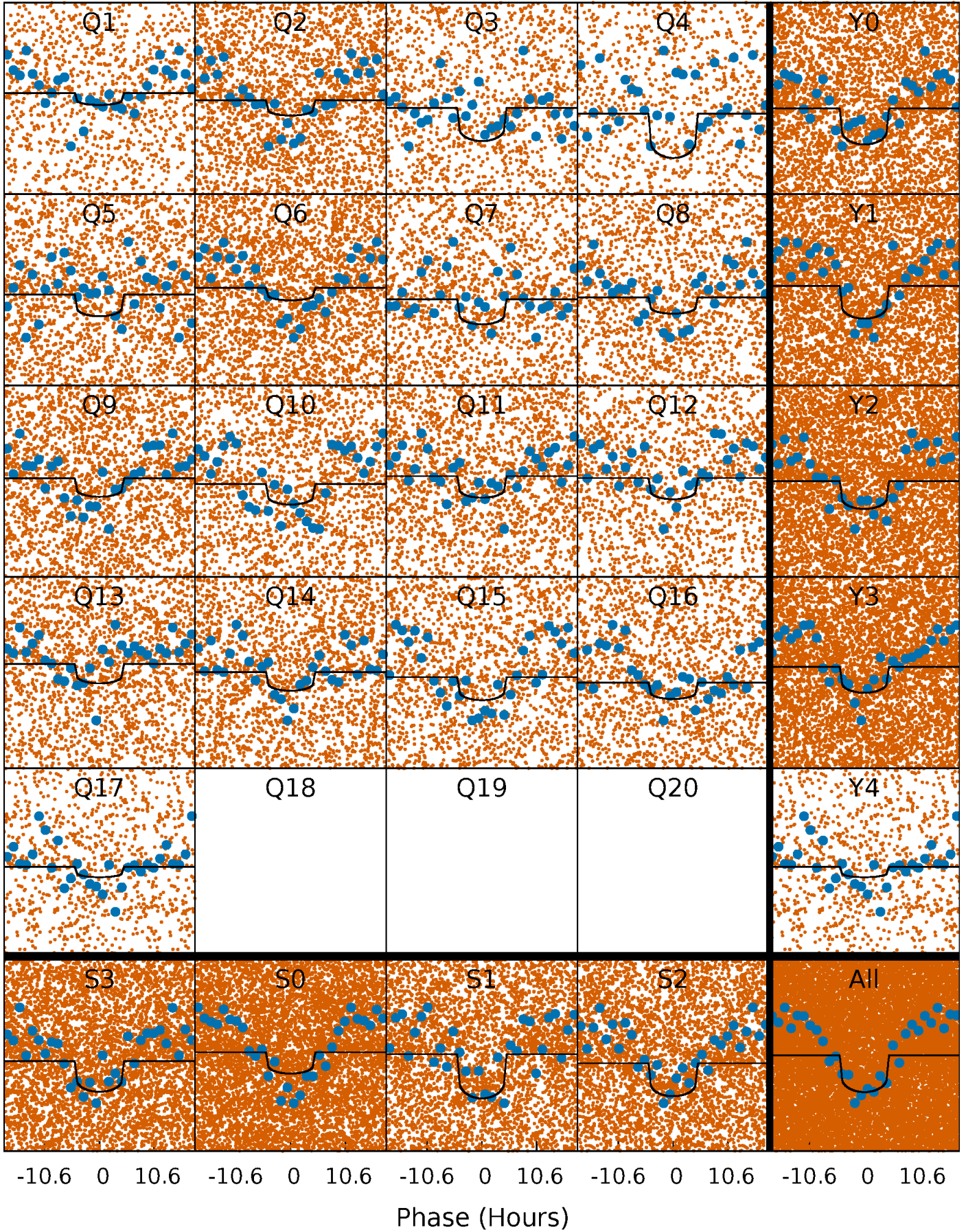
PDC Quarter-Phased Transit Curves

TCE 006789950-01 P= 1.234524 Days $T_0=131.751596$ (BKJD)



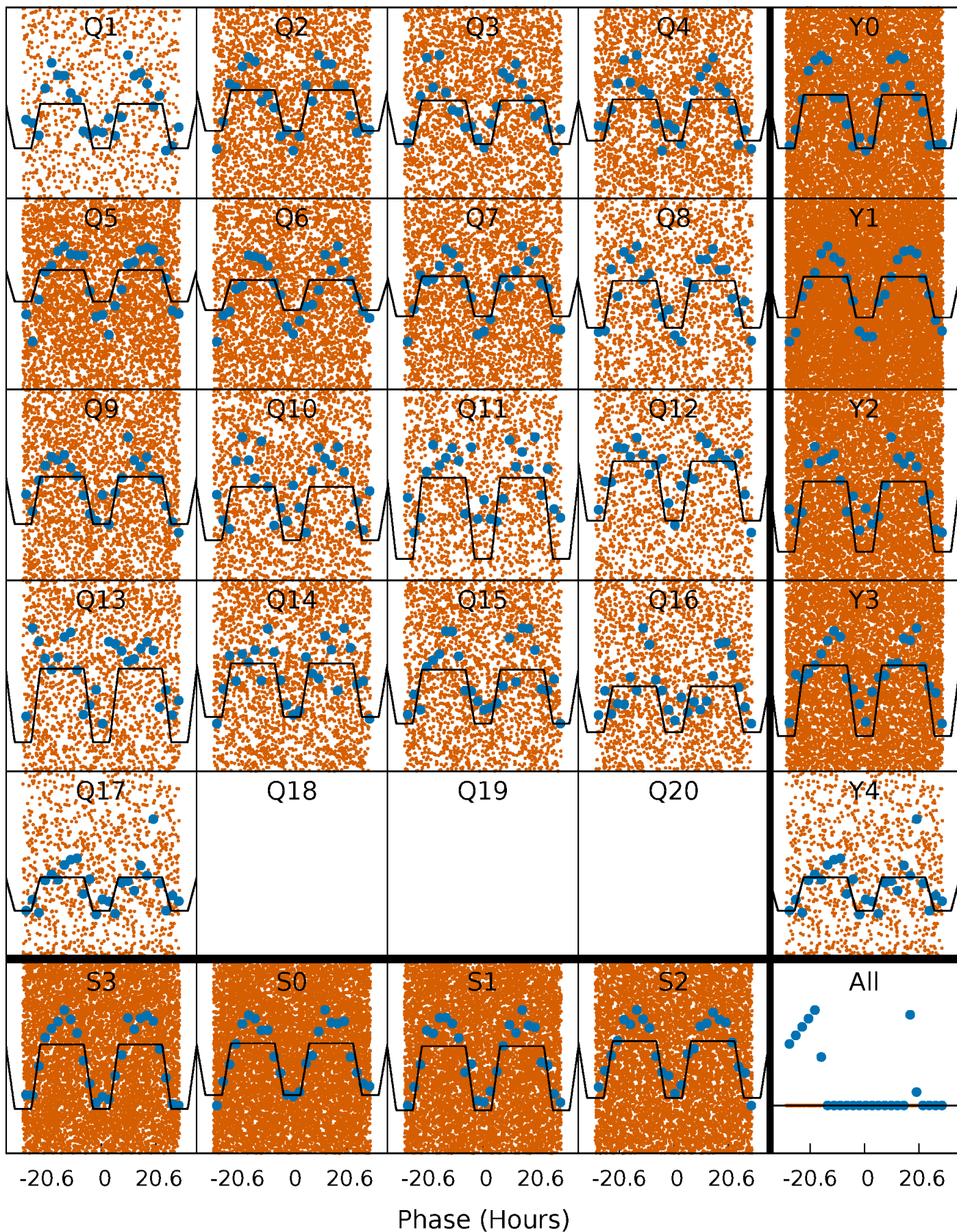
DV Quarter-Phased Transit Curves

TCE 006789950-01 P= 1.234524 Days $T_0=131.751596$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

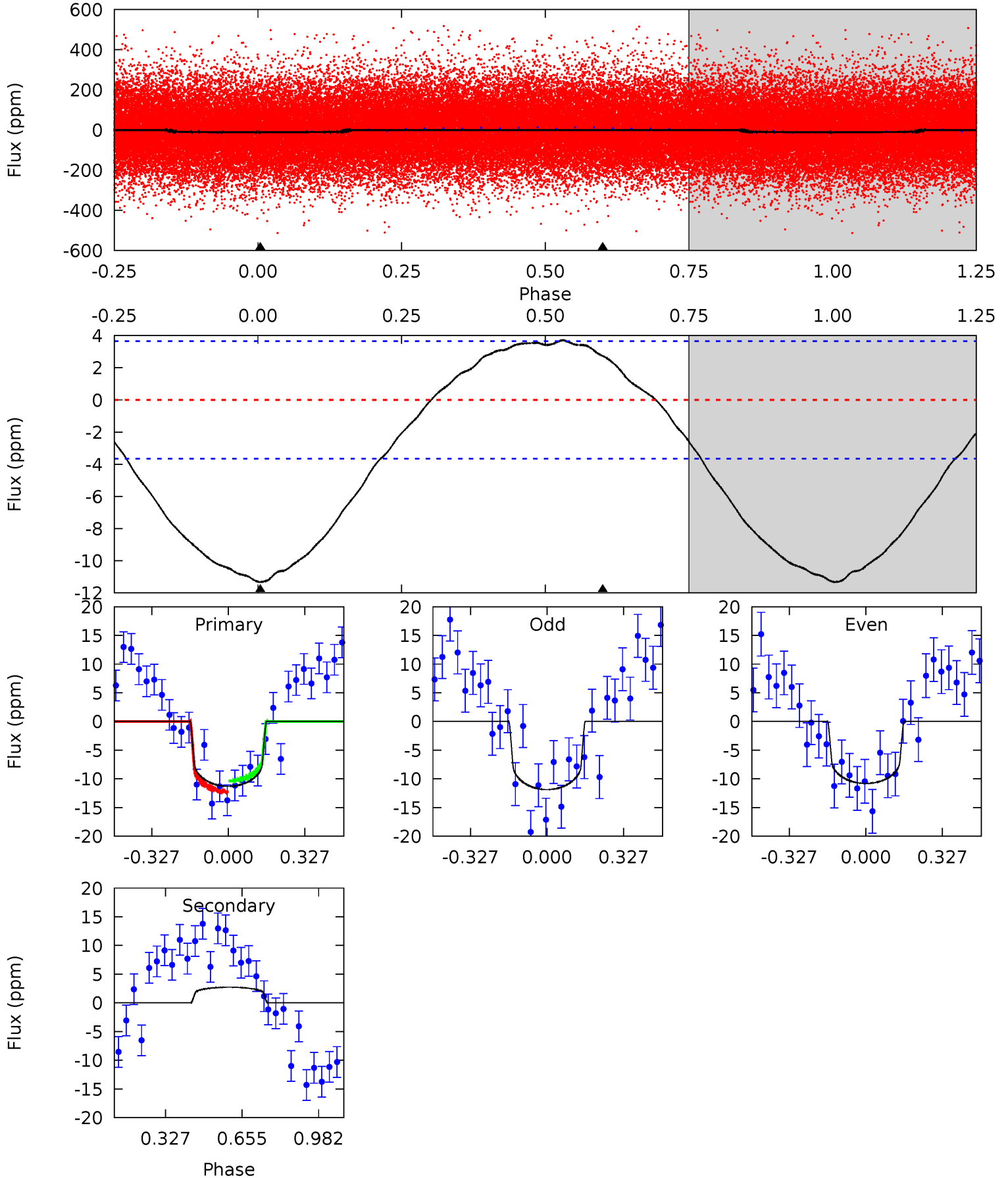
TCE 006789950-01 P= 1.234466 Days $T_0=131.764413$ (BKJD)



DV Model-Shift Uniqueness Test

006789950-01, P = 1.234524 Days, E = 130.517072 Days

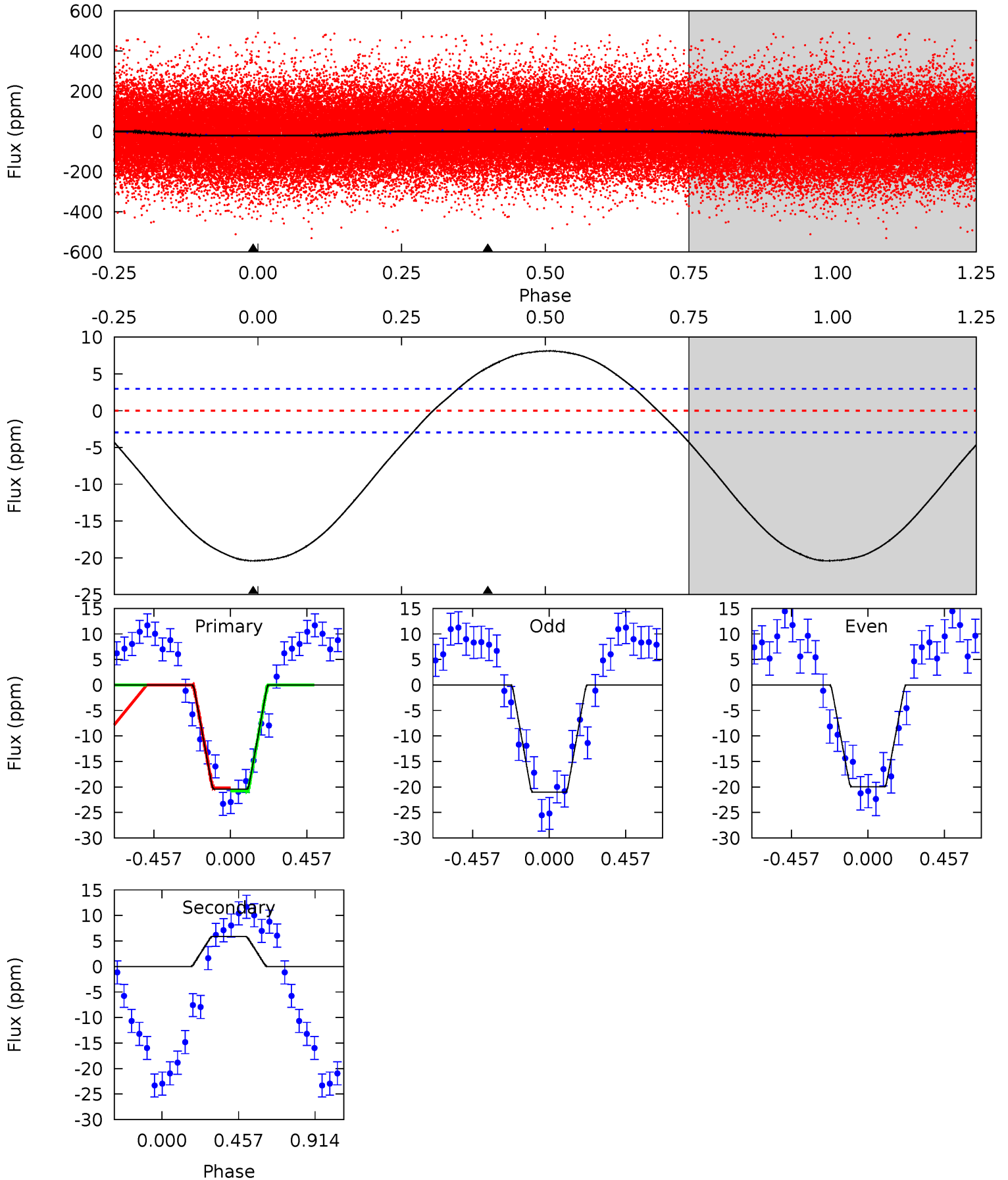
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.3	-3.22	0	0	4.31	0.98	1.28	13.3	13.3	-3.22	-3.22	0.63	1.04	0.25	1.12



Alt Model-Shift Uniqueness Test

006789950-01, P = 1.234466 Days, E = 130.529947 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.2	-8.38	0	0	4.24	0.74	3.20	29.2	29.2	-8.38	-8.38	0.75	1.01	0.28	0.43



Stellar Parameters For KIC 006789950

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7670^{+214}_{-322}	$4.016^{+0.182}_{-0.149}$	$0.080^{+0.150}_{-0.350}$	$2.193^{+0.536}_{-0.536}$	$1.818^{+0.170}_{-0.315}$	$0.243^{+0.239}_{-0.104}$
	+3%/-4%	+5%/-4%	+188%/-438%	+24%/-24%	+9%/-17%	+99%/-43%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006789950-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	3 ± 1	$0.82^{+0.47}_{-0.41}$	4184^{+299}_{-291}	-5310^{+711}_{-2139}	$-1.576^{+0.998}_{-4.802}$
Alt.	6 ± 1	$1.13^{+0.49}_{-0.47}$	4196^{+302}_{-304}	-5553^{+672}_{-1583}	$-1.879^{+0.971}_{-3.760}$

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 $A_{obs} \gg 1.0$

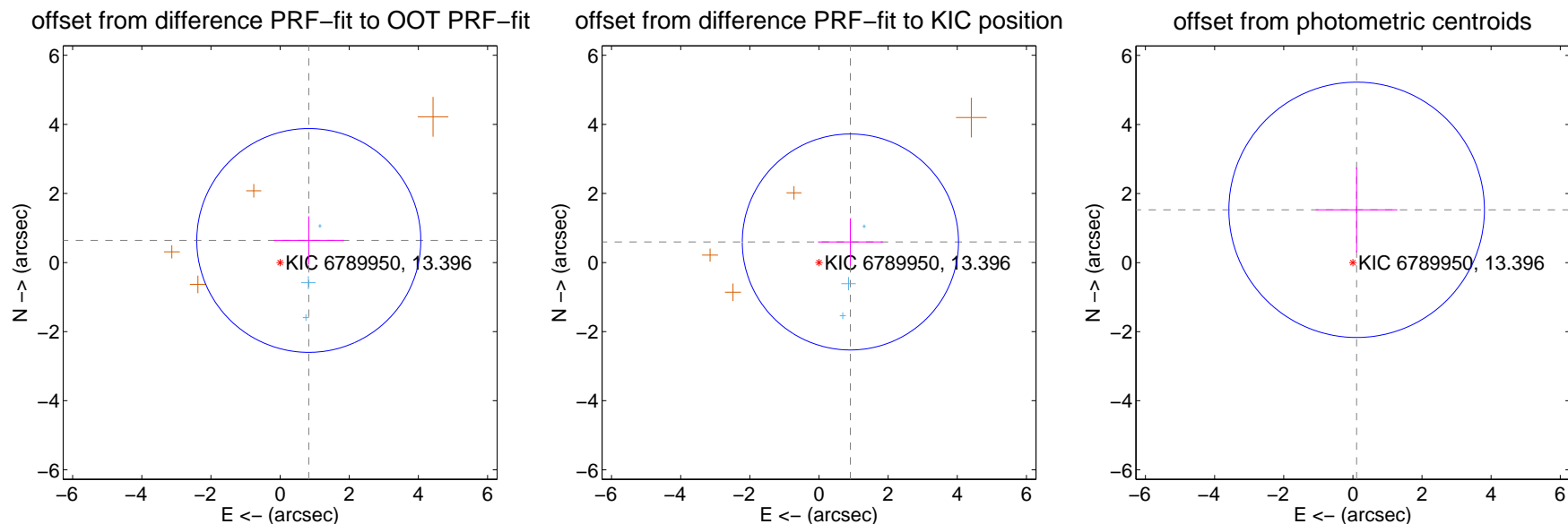
DV Centroid Data

Supplemental centroid analysis for 006789950-01. Kepler magnitude: 13.40. Transit SNR 9.88

There are 3 quarters with good PRF difference image offsets

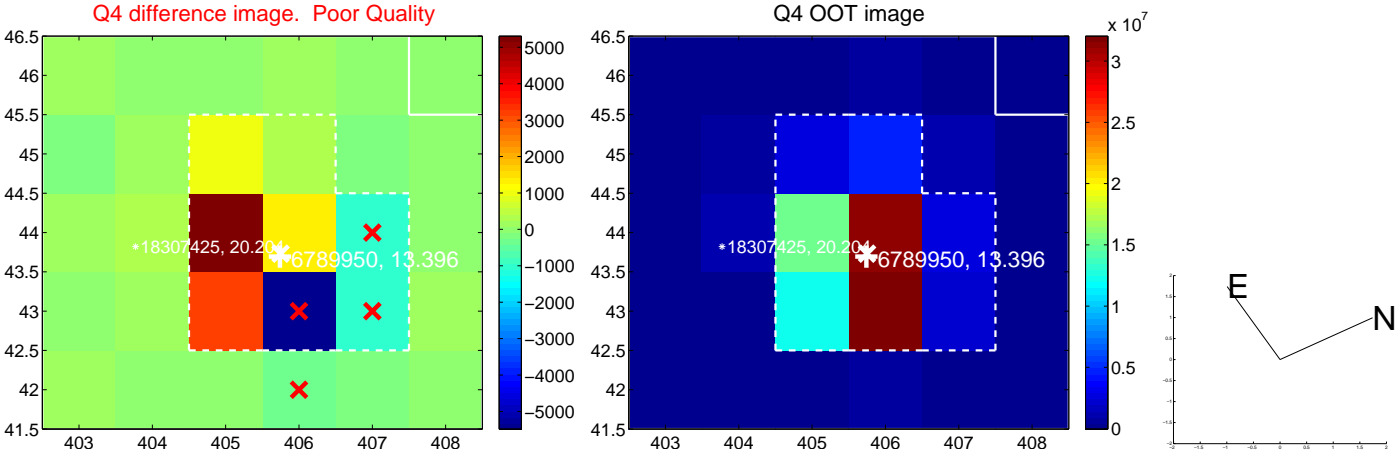
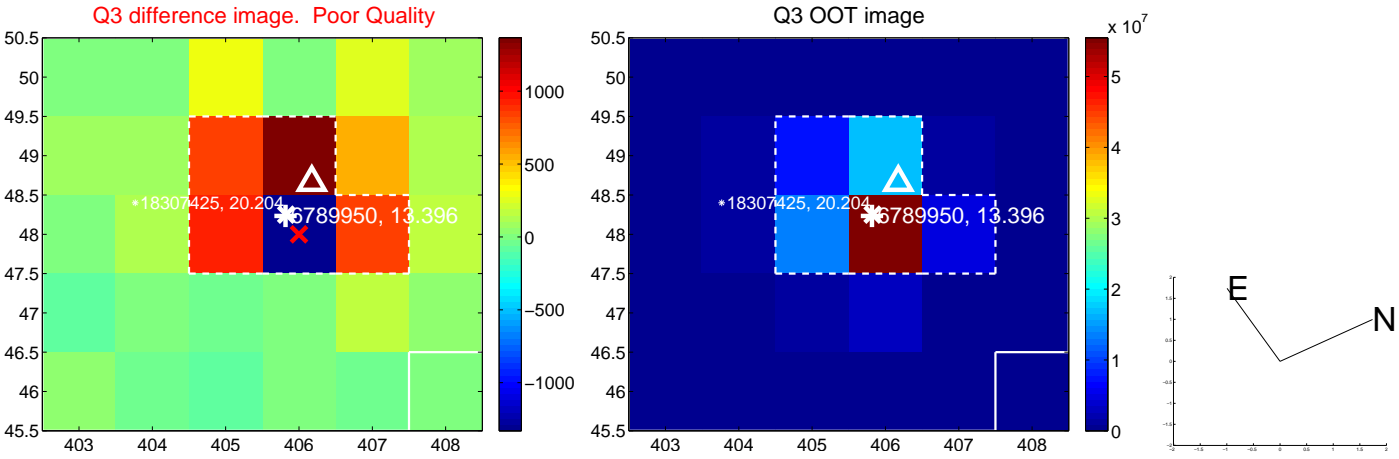
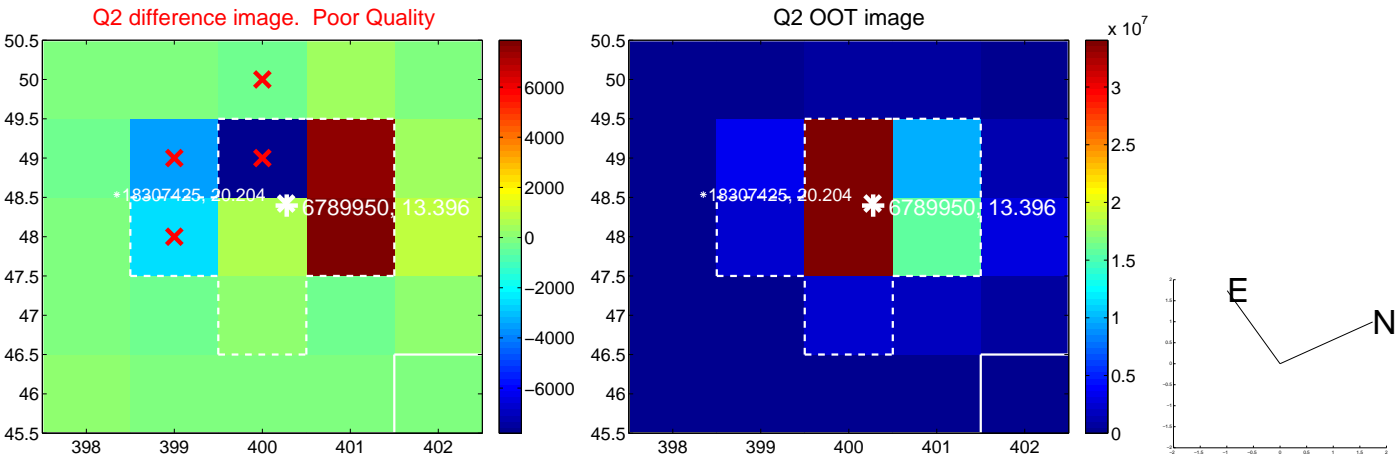
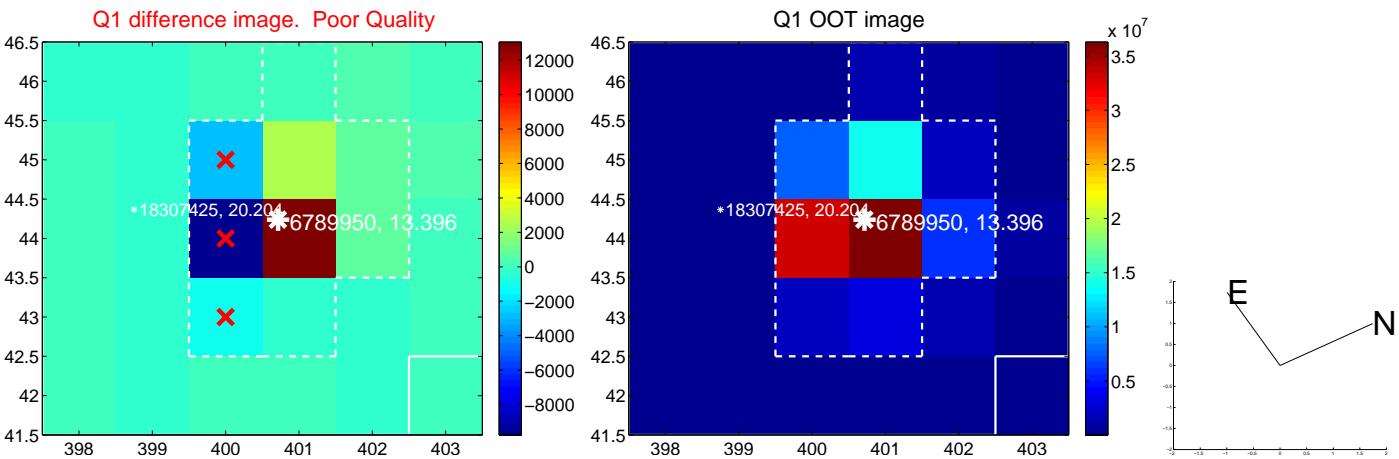
The direct PRF centroid is offset from the target star catalog position by about 0.25 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.047 ± 1.080	0.97	-0.830 ± 1.013	0.639 ± 0.700
PRF-fit source offset from KIC position	1.086 ± 1.042	1.04	-0.908 ± 0.941	0.595 ± 0.686
photometric centroid source offset	1.53 ± 1.23	1.24	-0.11 ± 1.18	1.53 ± 1.23

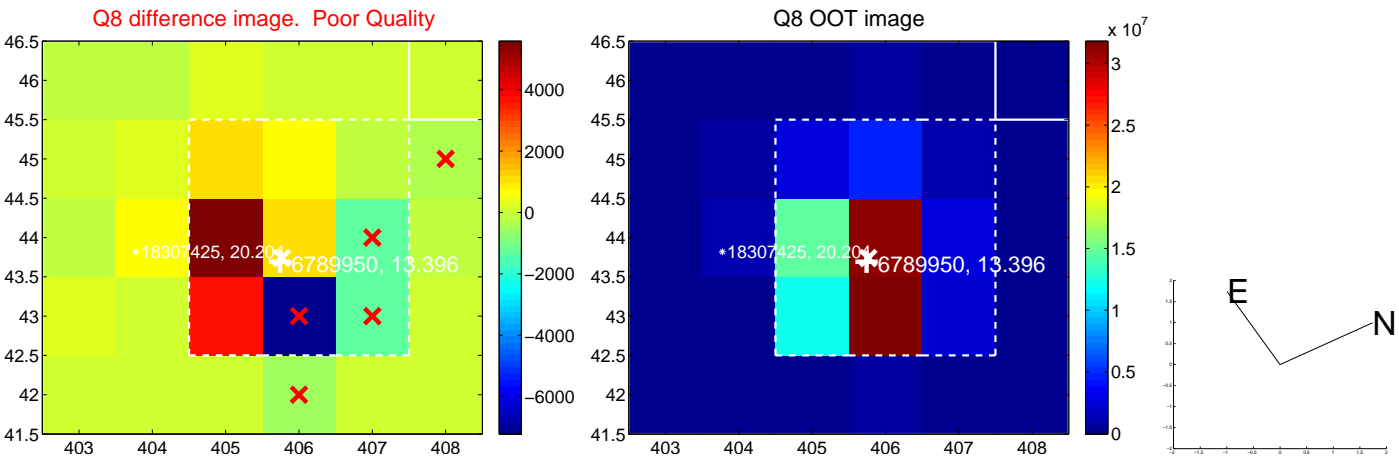
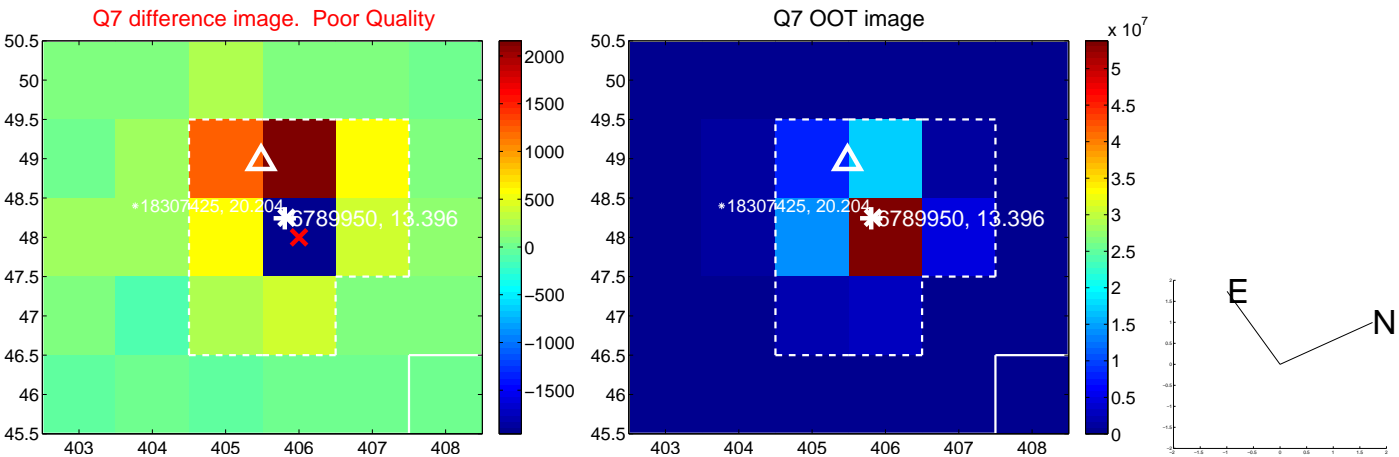
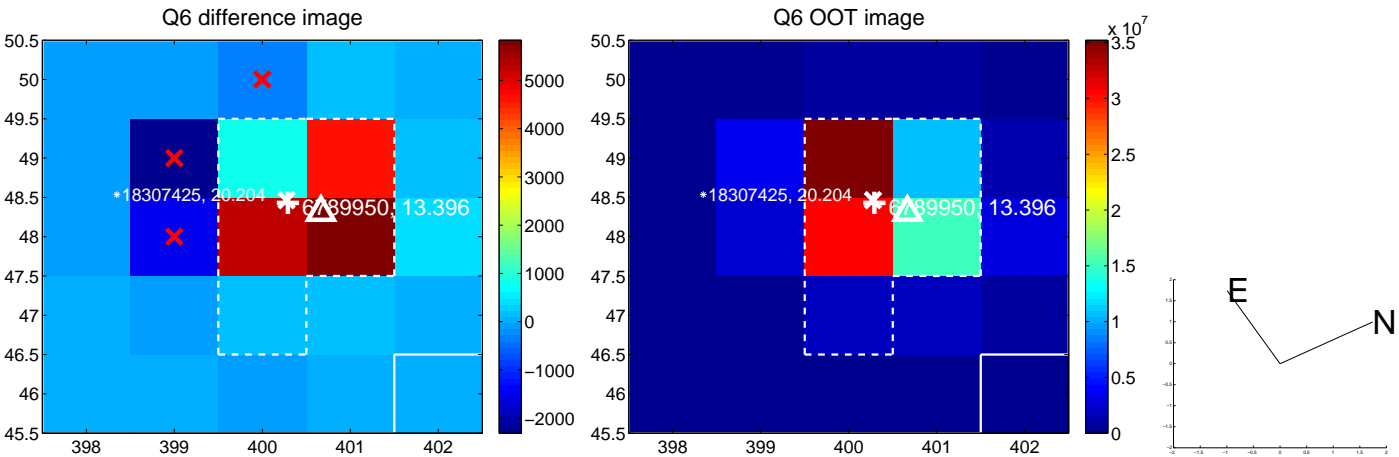
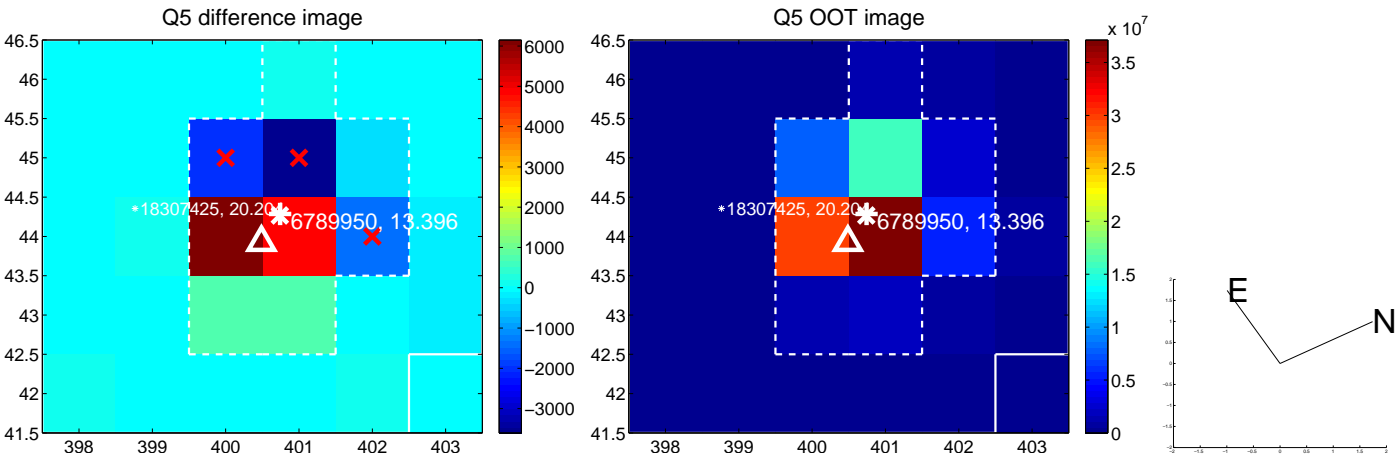


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

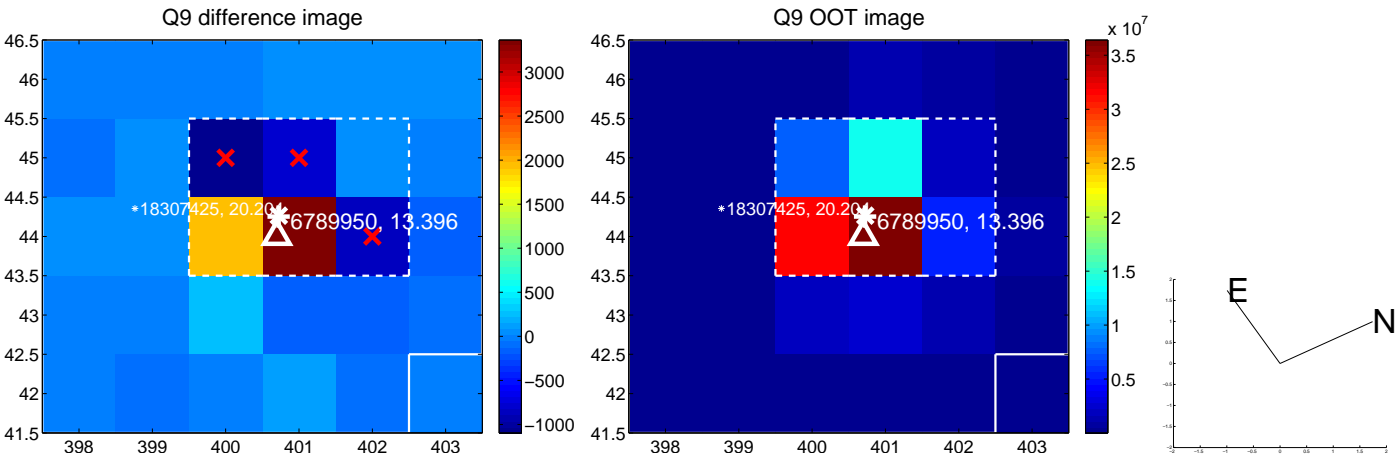
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



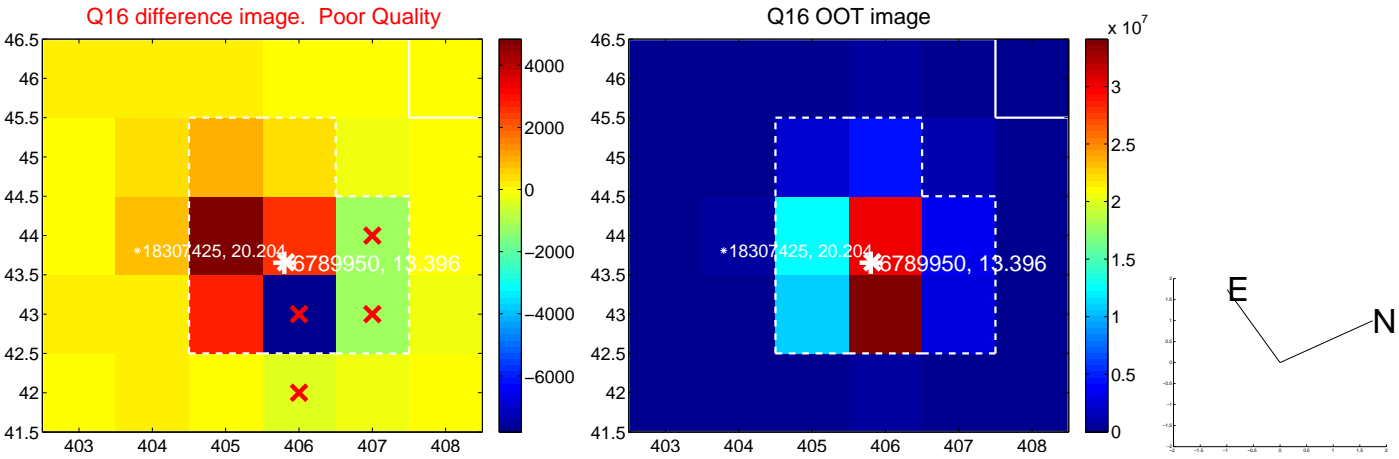
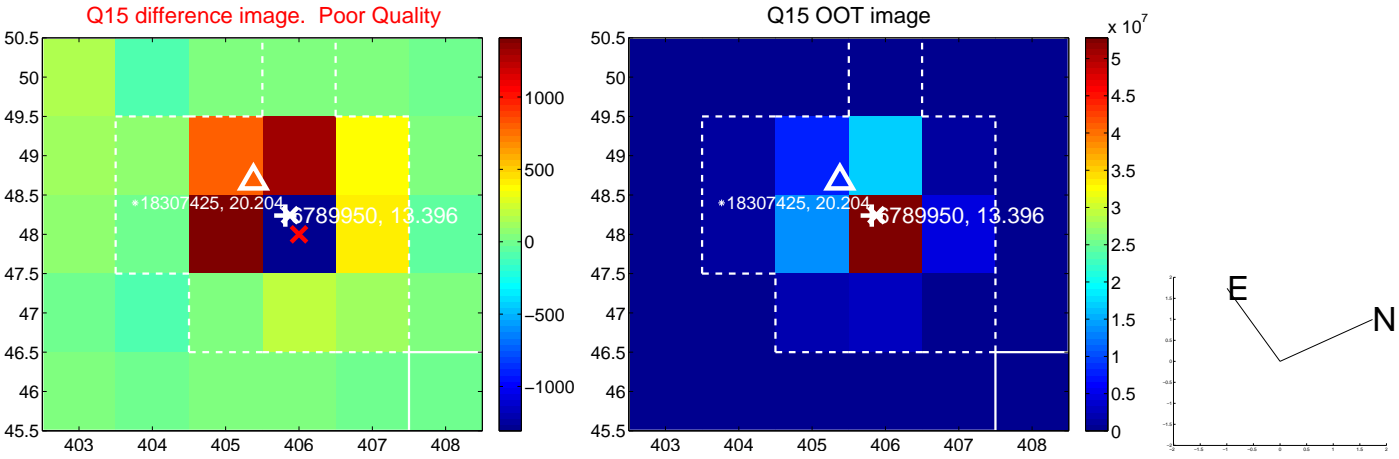
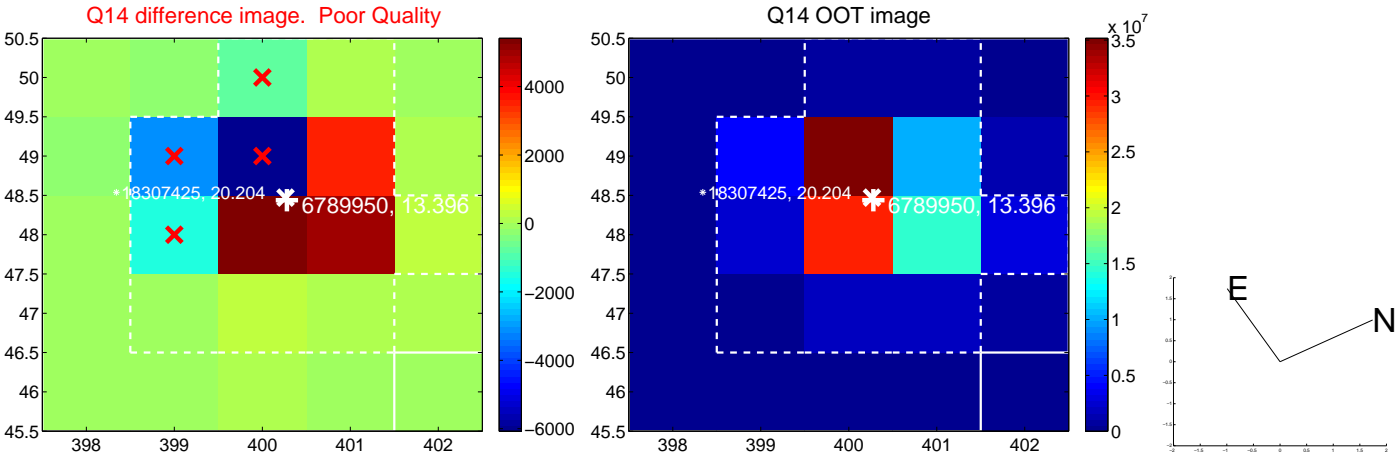
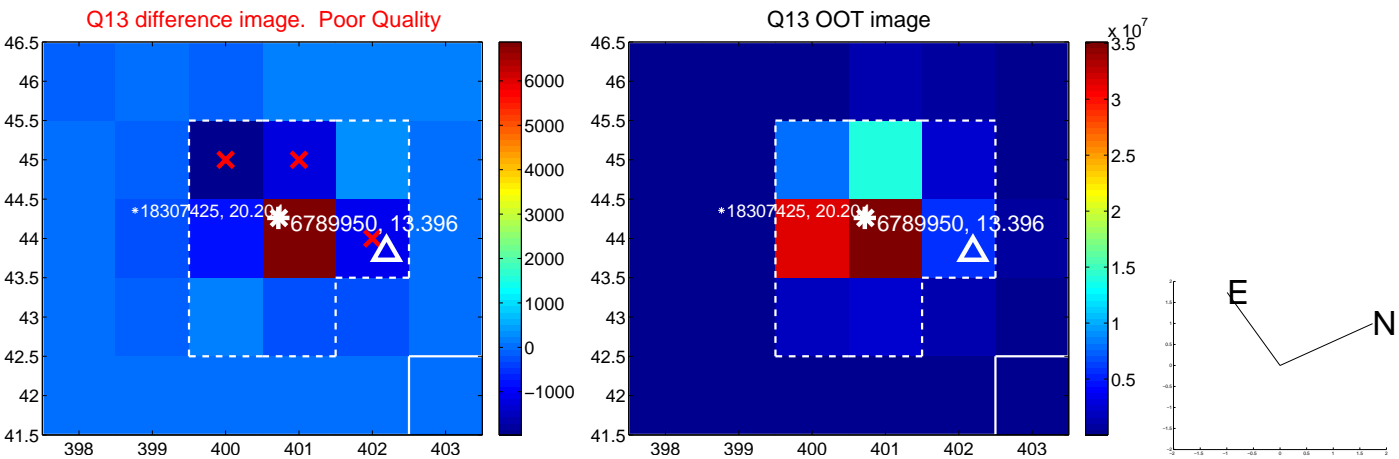
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



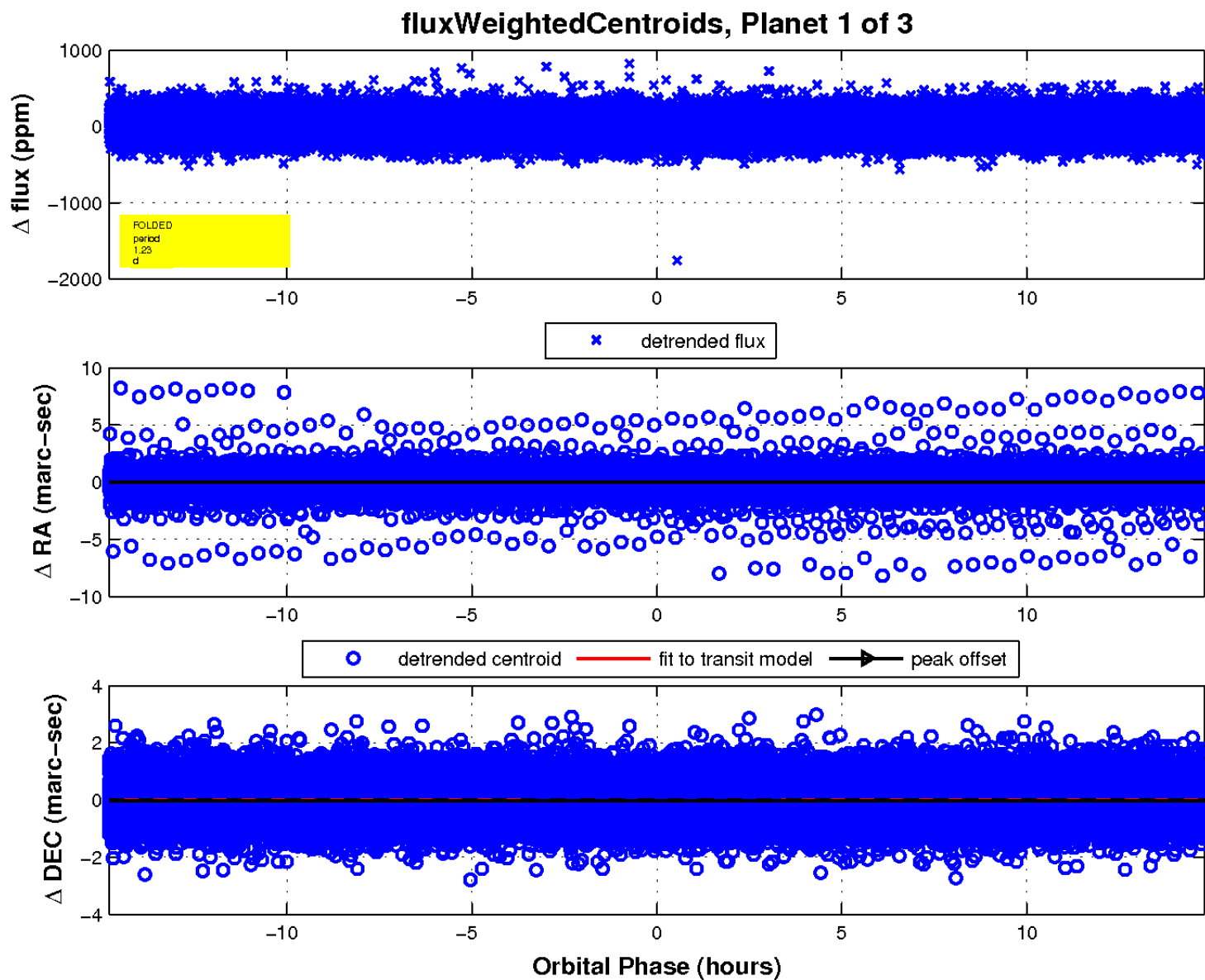
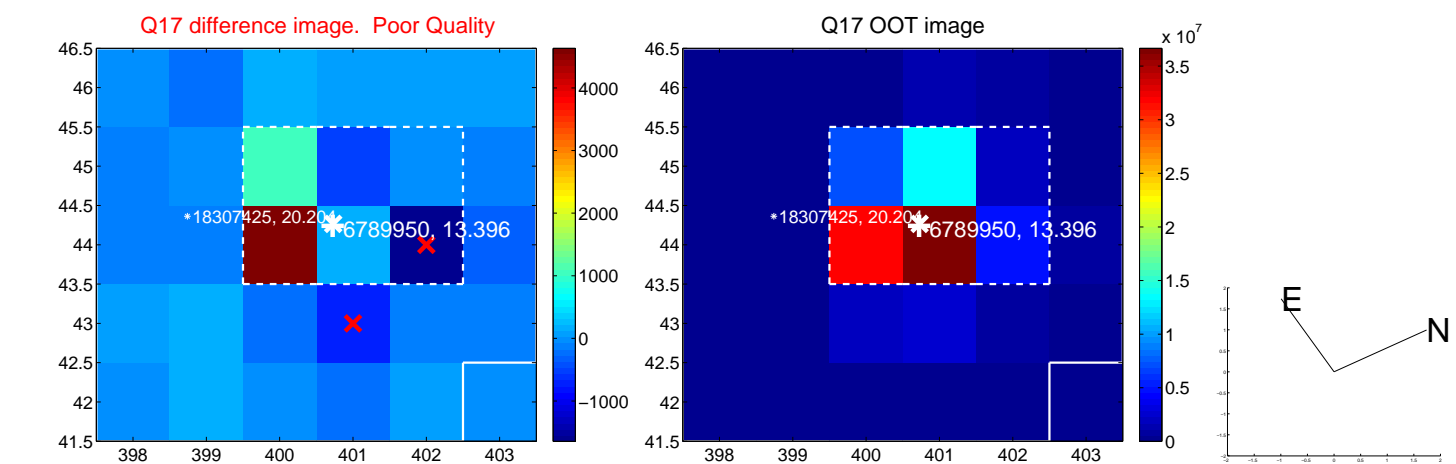
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

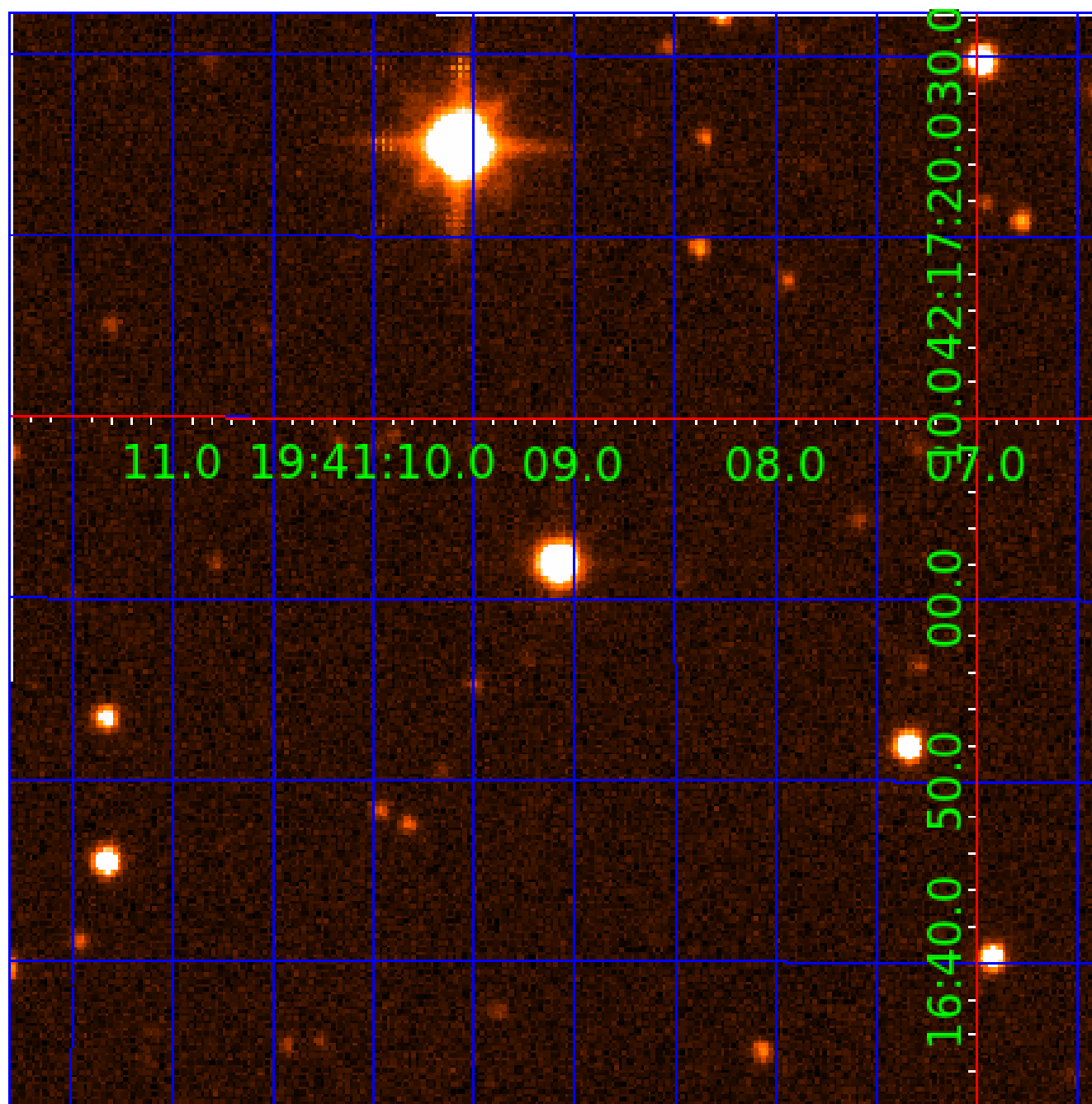


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



UKIRT Image

Declination



KIC 006789950

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})
006789950-01	OBS	No	1.234524	131.751596	10.9	9.255	7.9	9.9	2.19	7670	0.82	19713.74
006789950-02	OBS	No	18.319619	144.914696	217.8	1.588	14.0	15.0	2.19	7670	3.29	540.60
006789950-03	OBS	No	44.433707	165.770788	129.7	2.176	13.6	14.3	2.19	7670	2.79	165.89

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006789950-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS
006789950-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
006789950-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

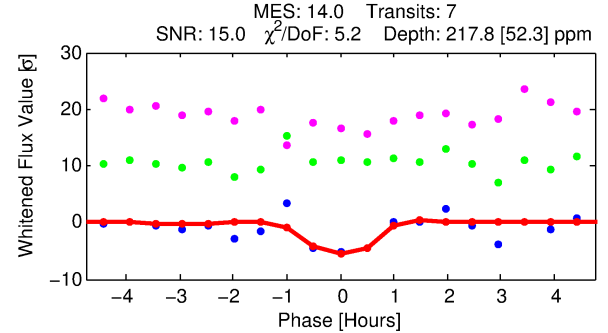
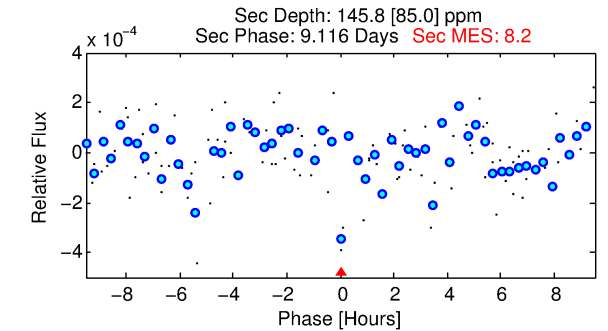
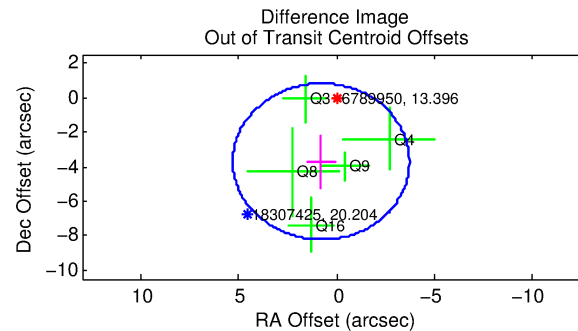
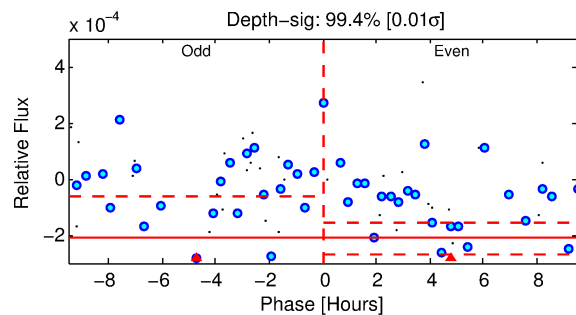
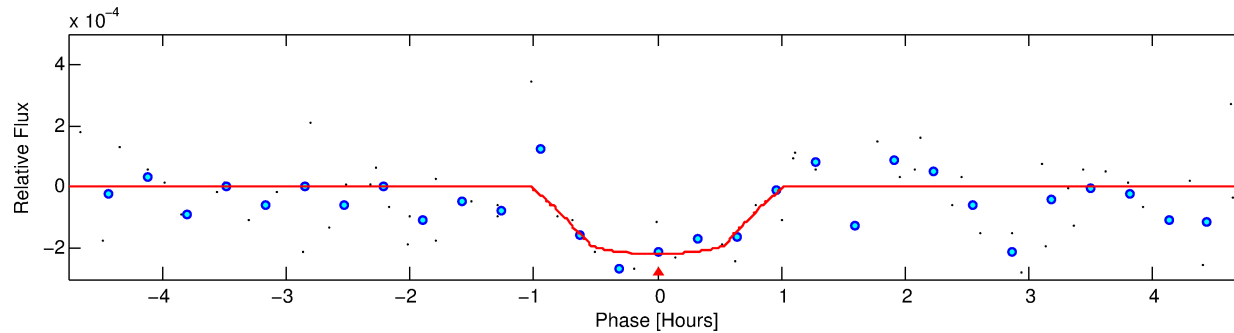
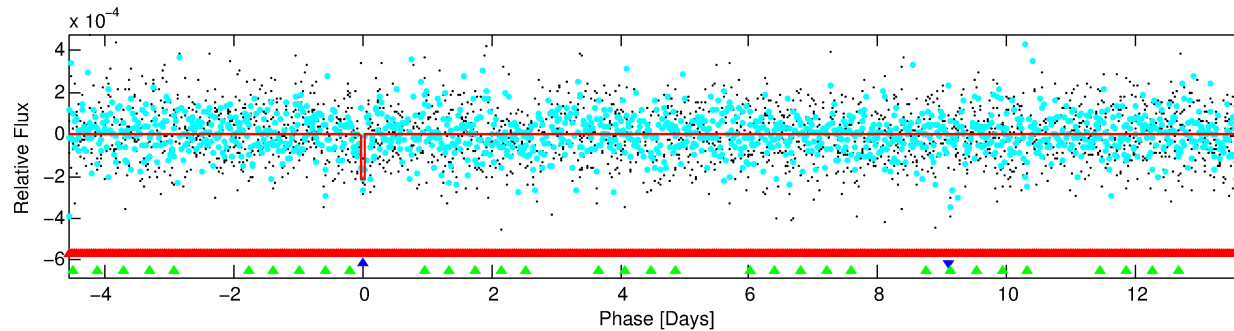
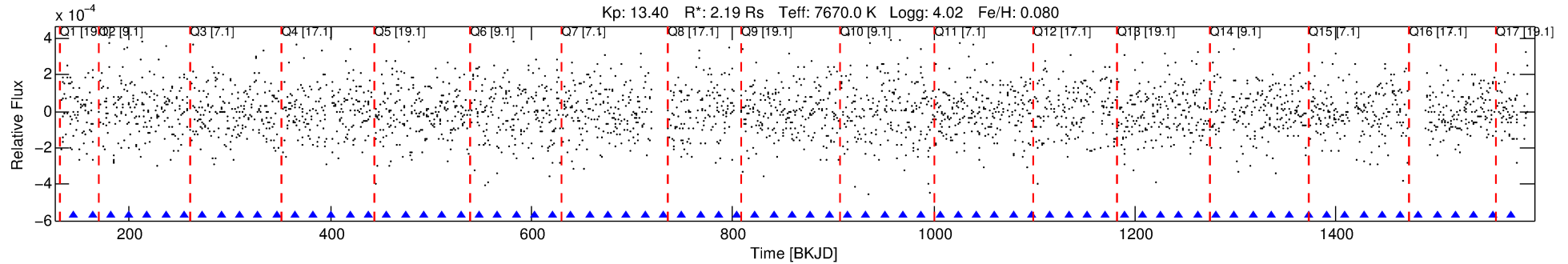
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006789950-02

No Significant Match Found

DV One-Page Summary

KIC: 6789950 Candidate: 2 of 3 Period: 18.320 d



DV Fit Results:

Period = 18.31962 [0.00024] d
Epoch = 144.9147 [0.0088] BKJD
Rp/R* = 0.0138 [0.0517]
a/R* = 88.77 [1981.44]
b = 0.11 [193.62]
Seff = 540.60 [197.01]
Teq = 1230 [112] K
Rp = 3.29 [12.40] Re
a = 0.1661 [0.0356] AU
Ag = 203.85 [1537.24] [0.13 σ]
Teff = 7183 [13533] K [0.44 σ]

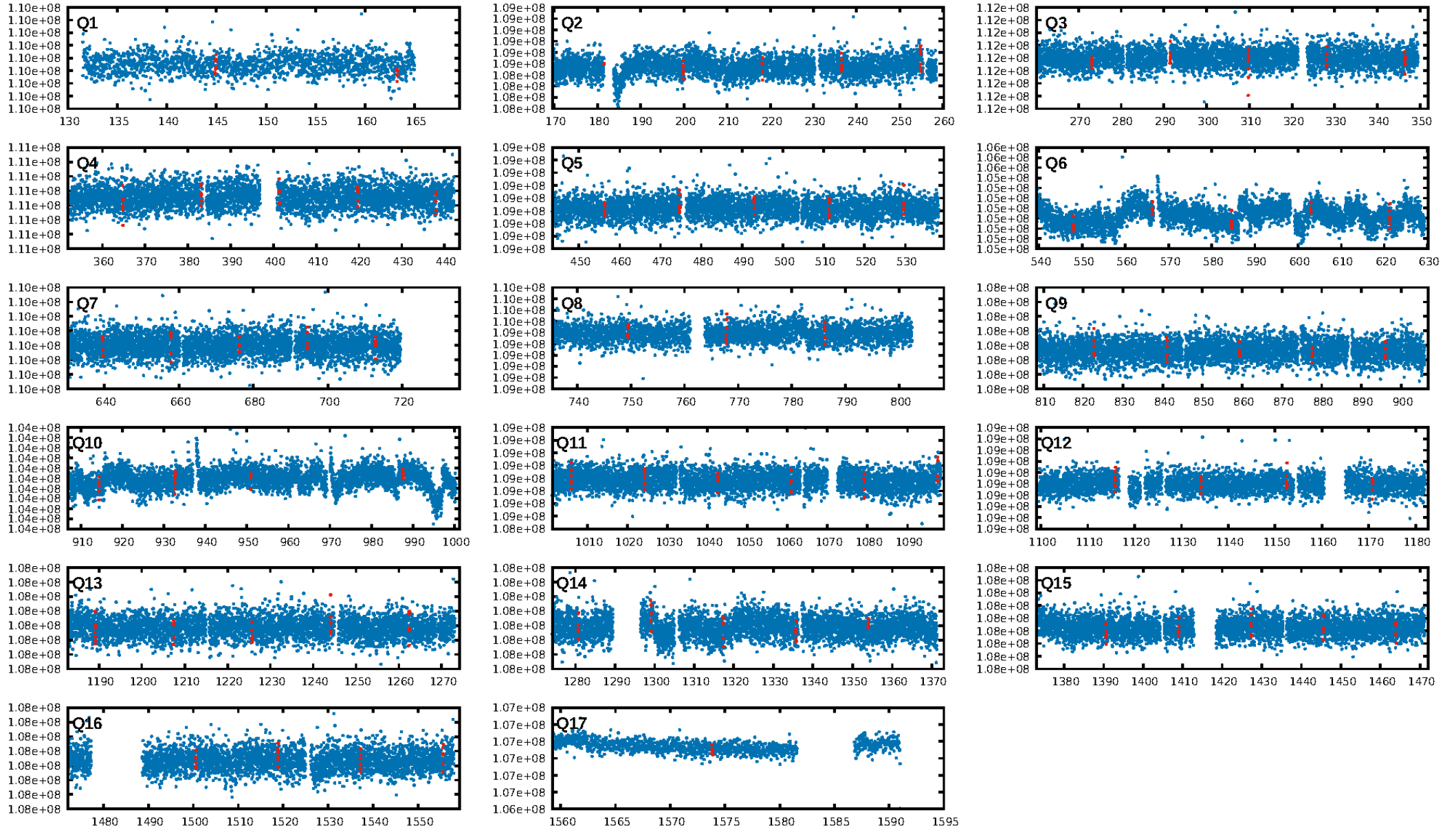
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [43.67 σ]
LongPeriod-sig: 100.0% [232.62 σ]
ModelChiSquare2-sig: 41.3%
ModelChiSquareGof-sig: 97.6%
Bootstrap-pfa: 3.01e-15
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: -0.6564
Centroid-sig: 4.7%
Centroid-so: 0.643 arcsec [1.18 σ]
OotOffset-rm: 3.785 arcsec [2.51 σ]
KicOffset-rm: 3.846 arcsec [2.51 σ]
OotOffset-st: 0/1/3/1 [5]
KicOffset-st: 0/1/3/1 [5]
DiffImageQuality-fgm: 0.20 [1/5]
DiffImageOverlap-fno: 0.76 [13/17]

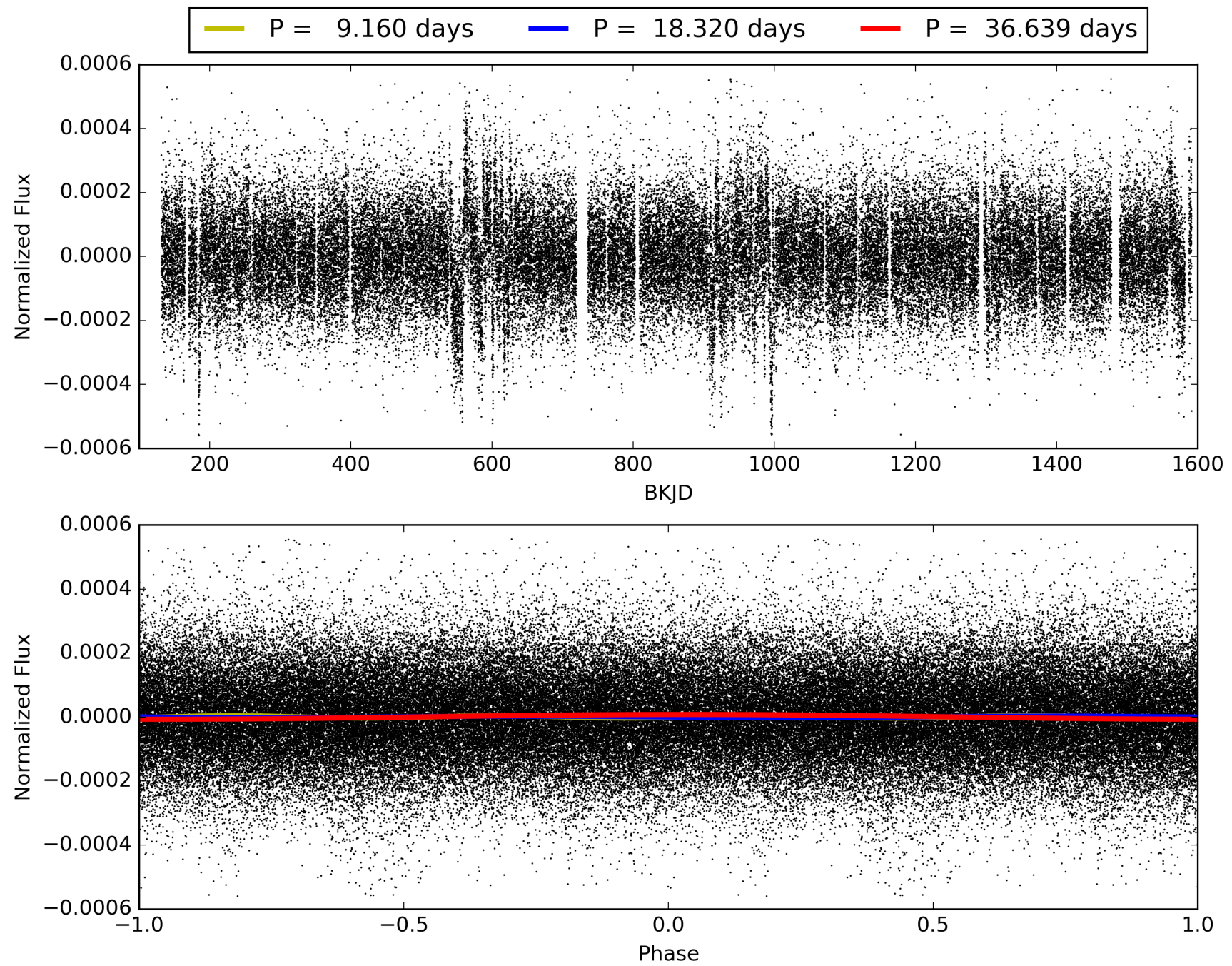
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 21:35:05 Z

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

TCE 006789950-02, PDC Light Curves

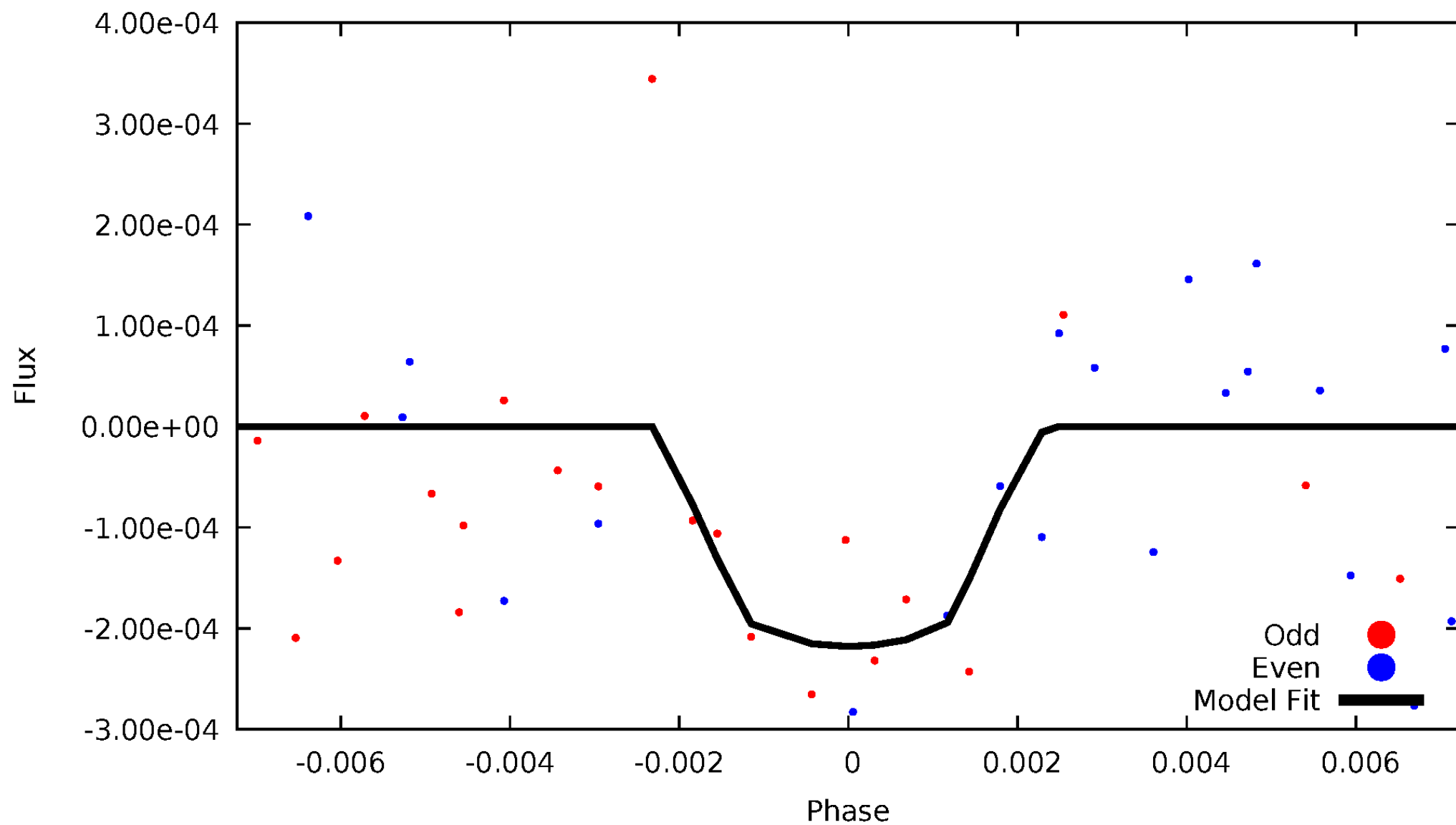


TCE 006789950-02



DV Odd/Even

TCE 006789950-02

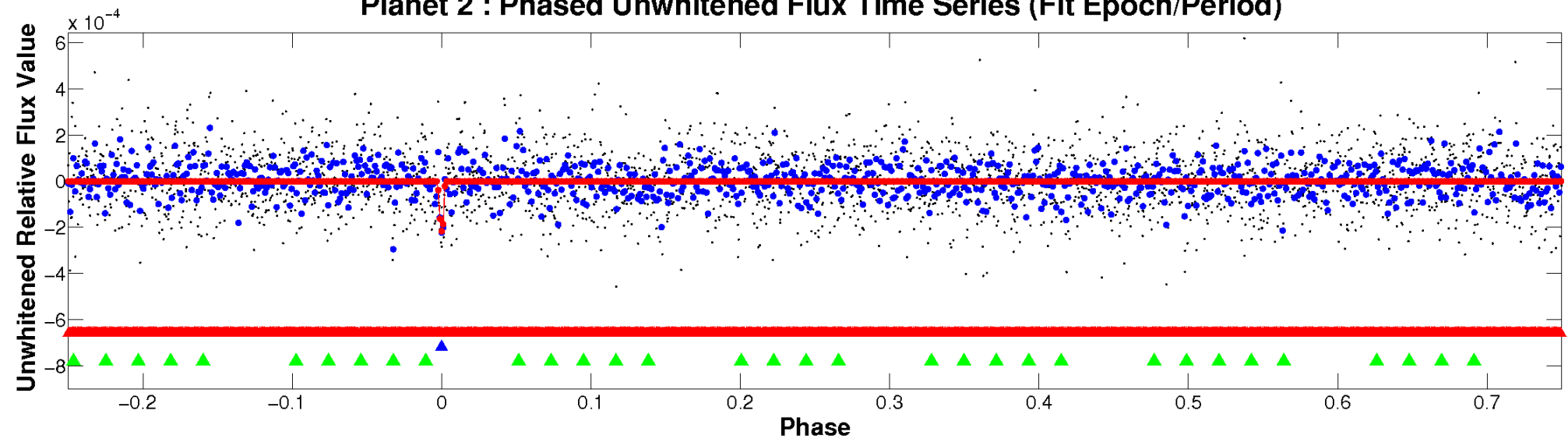


ALT Odd/Even

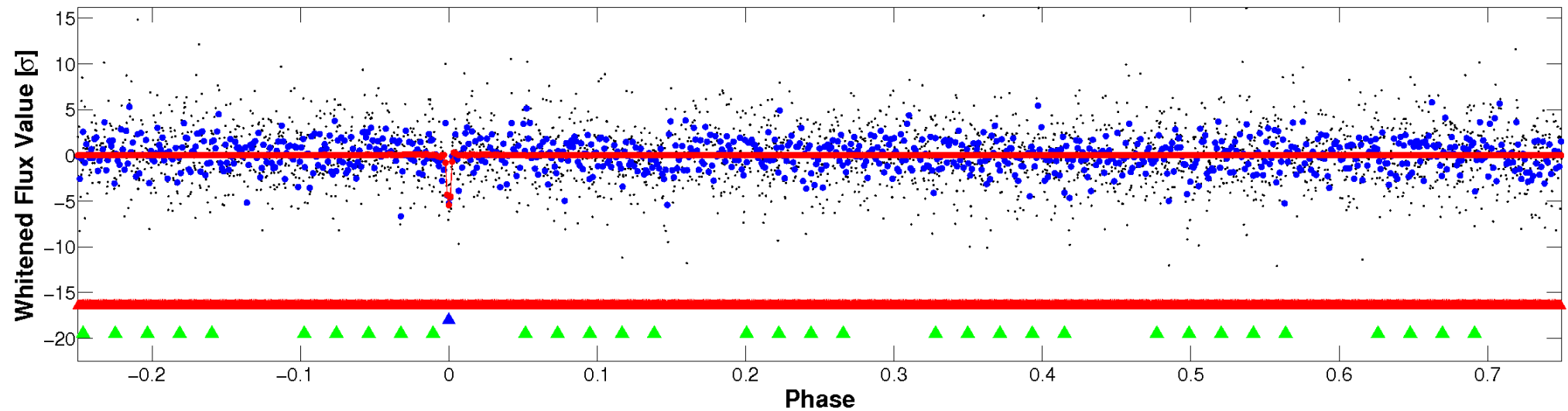
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

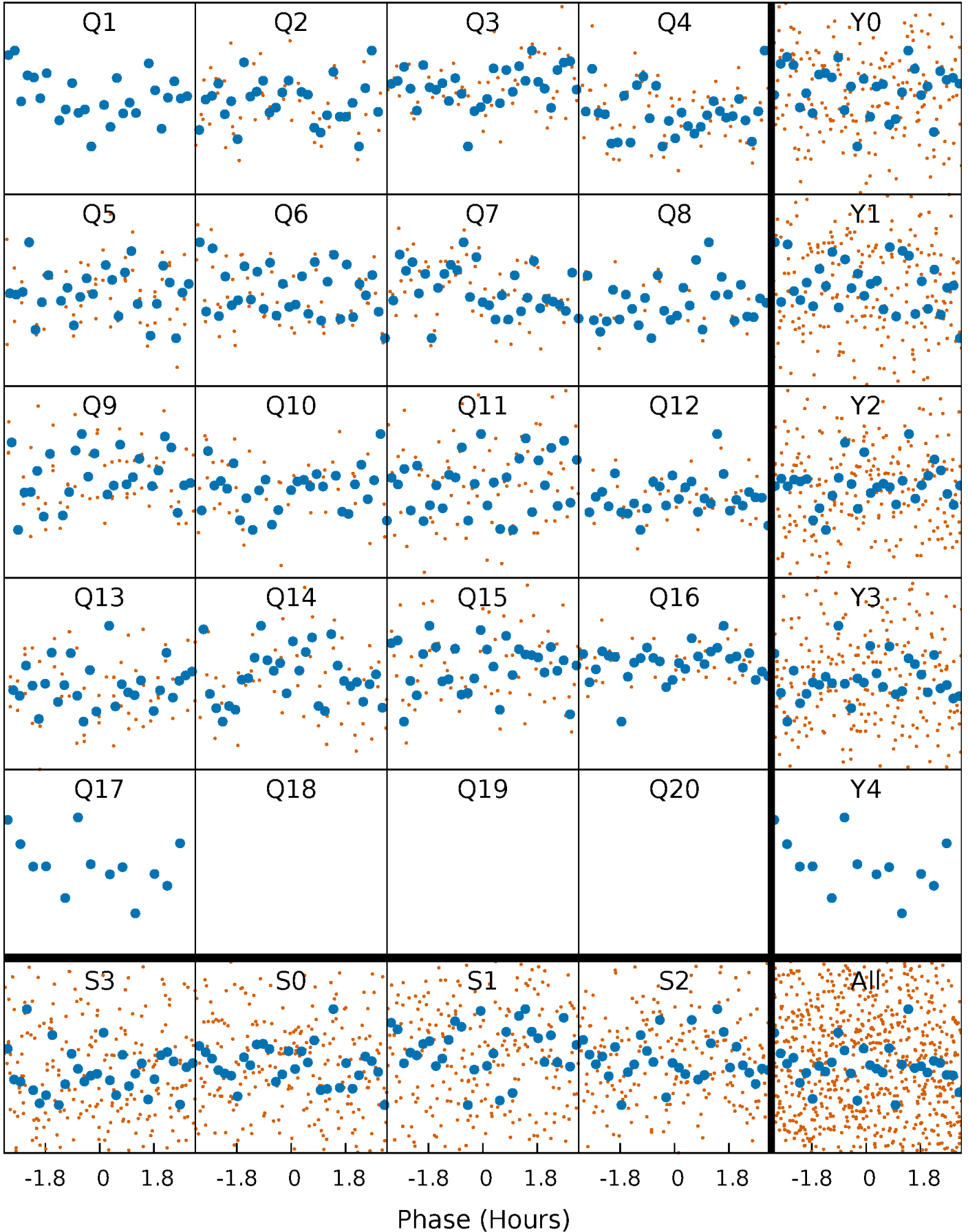


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



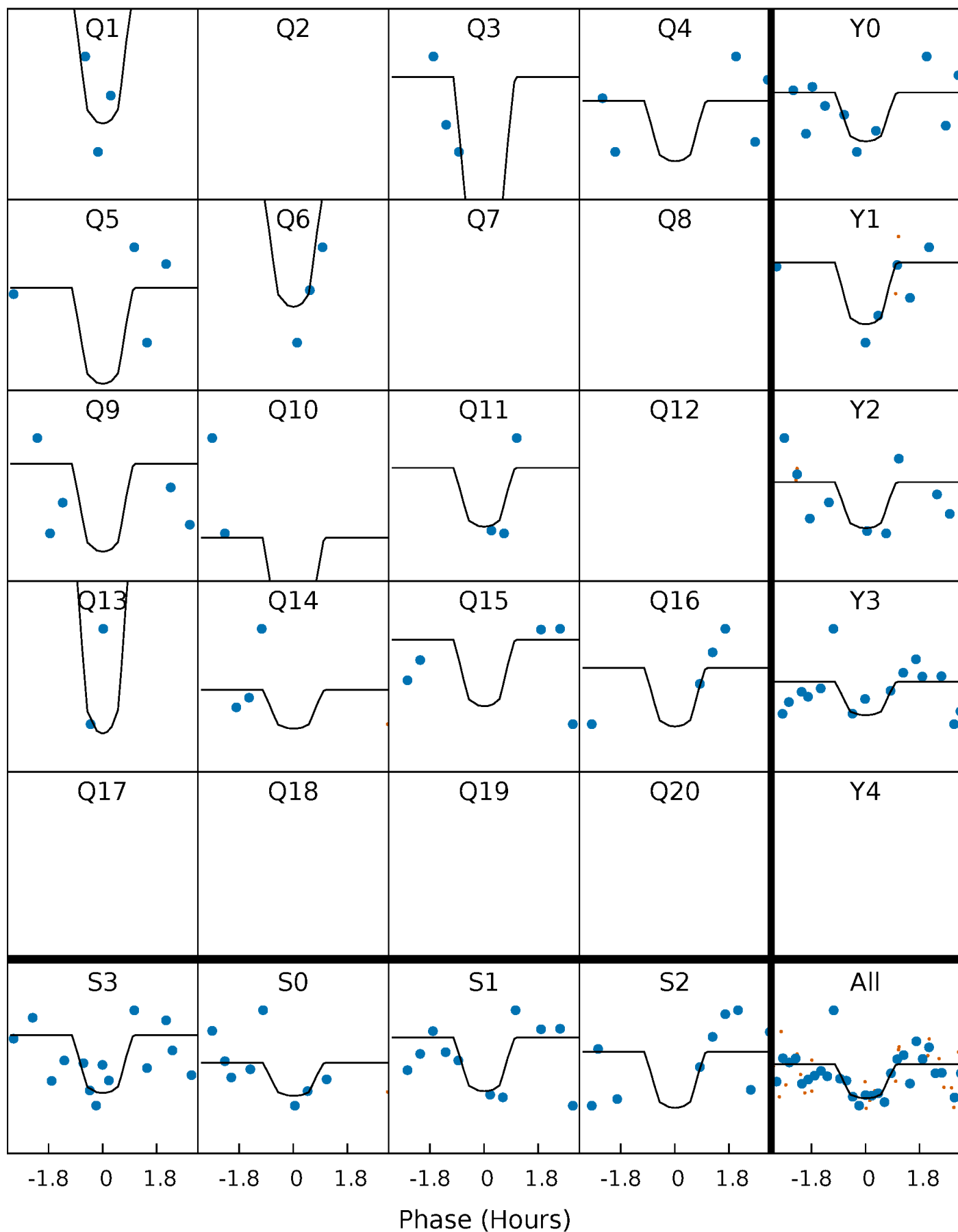
PDC Quarter-Phased Transit Curves

TCE 006789950-02 P= 18.319619 Days $T_0=144.914696$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006789950-02 P= 18.319619 Days $T_0=144.914696$ (BKJD)

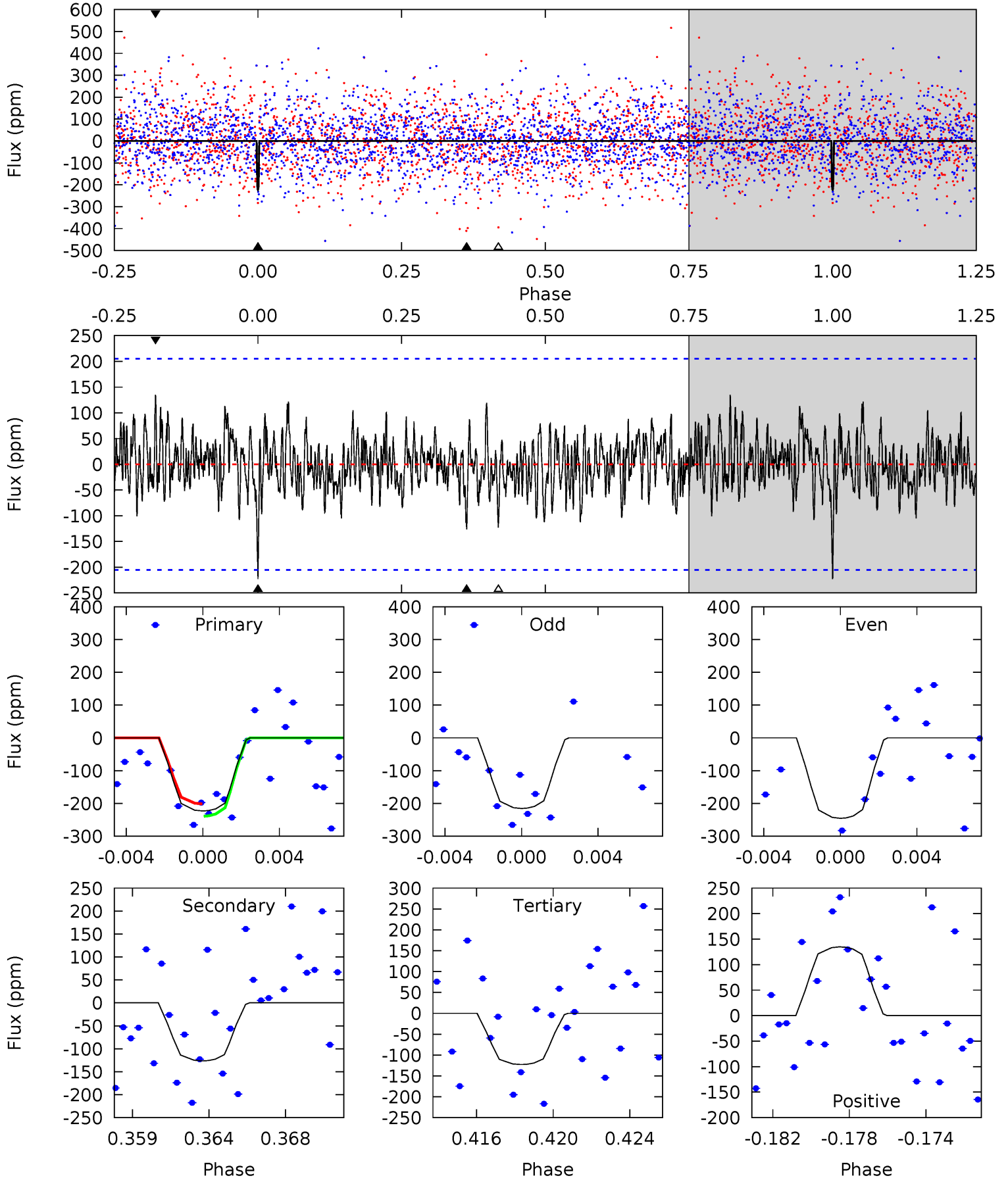


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006789950-02, P = 18.319619 Days, E = 126.595077 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.65	3.20	3.11	3.41	5.20	2.88	1.09	2.54	2.23	0.09	-0.21	0.37	0.97	0.38	0.44



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006789950

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7670^{+214}_{-322}	$4.016^{+0.182}_{-0.149}$	$0.080^{+0.150}_{-0.350}$	$2.193^{+0.536}_{-0.536}$	$1.818^{+0.170}_{-0.315}$	$0.243^{+0.239}_{-0.104}$
	+3%/-4%	+5%/-4%	+188%/-438%	+24%/-24%	+9%/-17%	+99%/-43%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006789950-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-126 ± 39	$9.18^{+9.84}_{-6.20}$	1704^{+123}_{-125}	4223^{+2937}_{-970}	21^{+195}_{-17}
Alt.	N/A	N/A	N/A	N/A	N/A

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

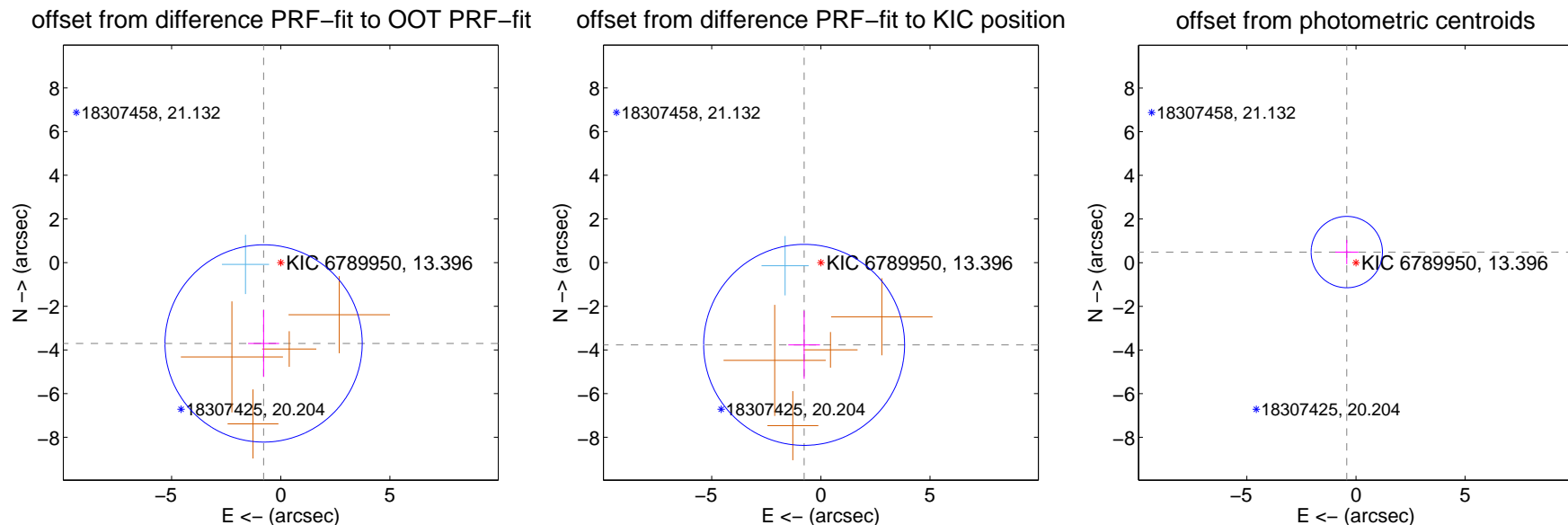
DV Centroid Data

Supplemental centroid analysis for 006789950-02. Kepler magnitude: 13.40. Transit SNR 15.02

There are 1 quarters with good PRF difference image offsets

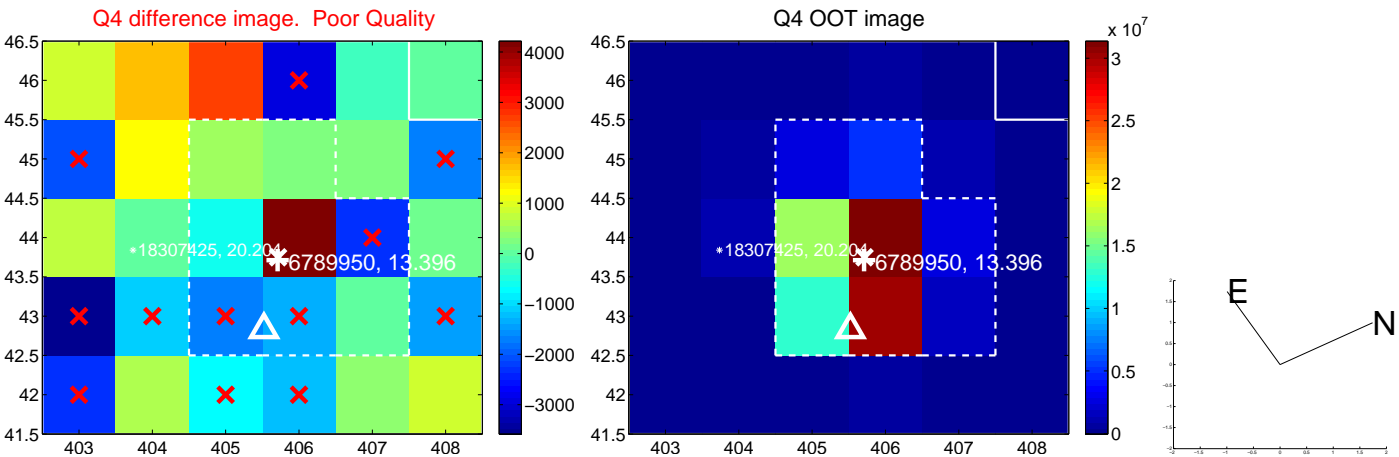
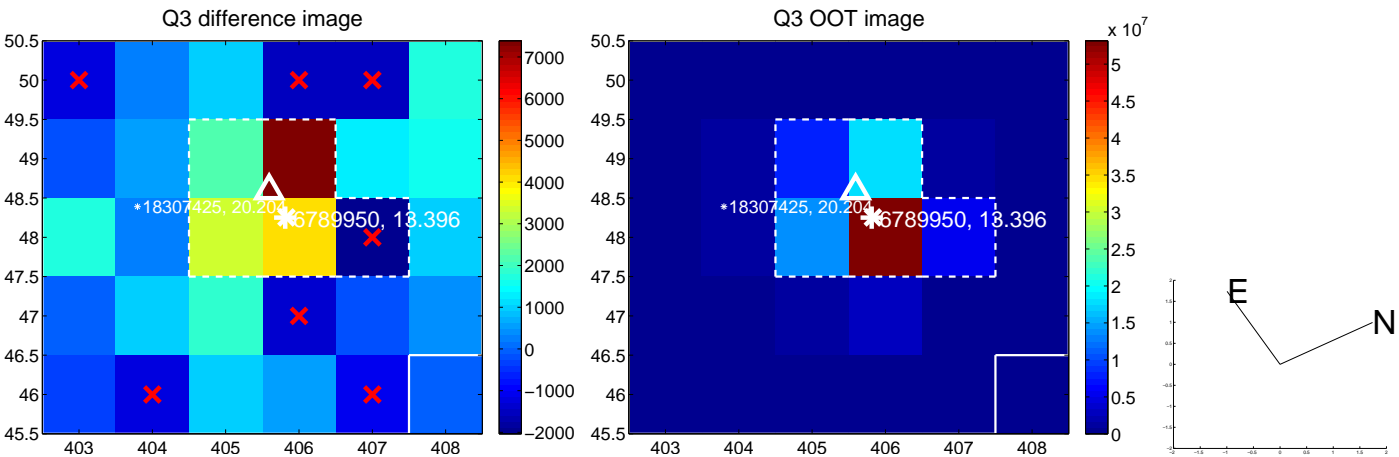
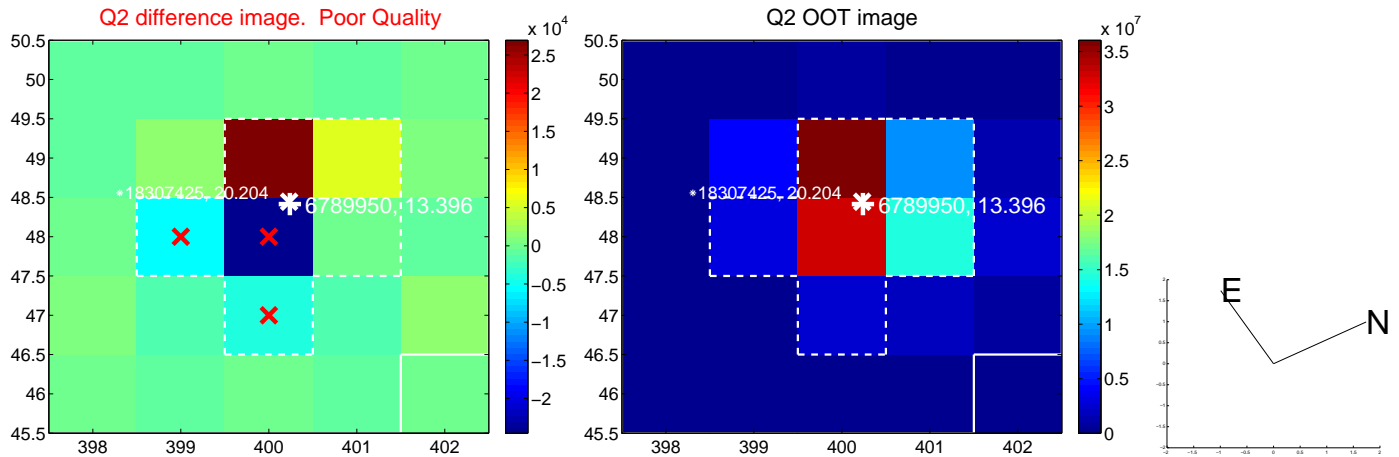
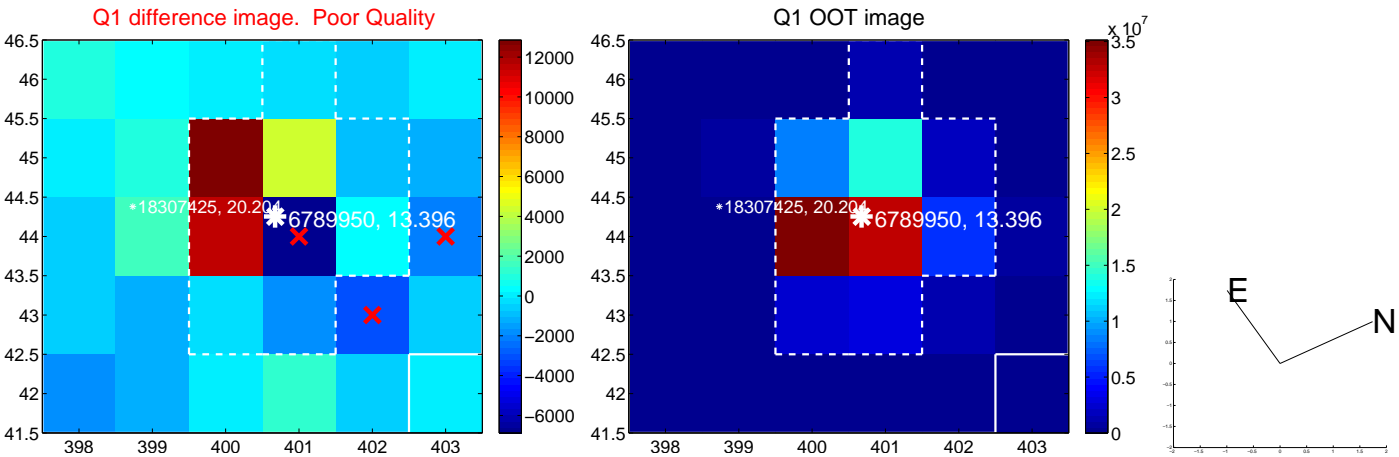
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.785 ± 1.506	2.51	0.786 ± 0.713	-3.703 ± 1.532
PRF-fit source offset from KIC position	3.846 ± 1.534	2.51	0.767 ± 0.726	-3.768 ± 1.559
photometric centroid source offset	0.64 ± 0.54	1.18	0.42 ± 0.53	0.49 ± 0.56

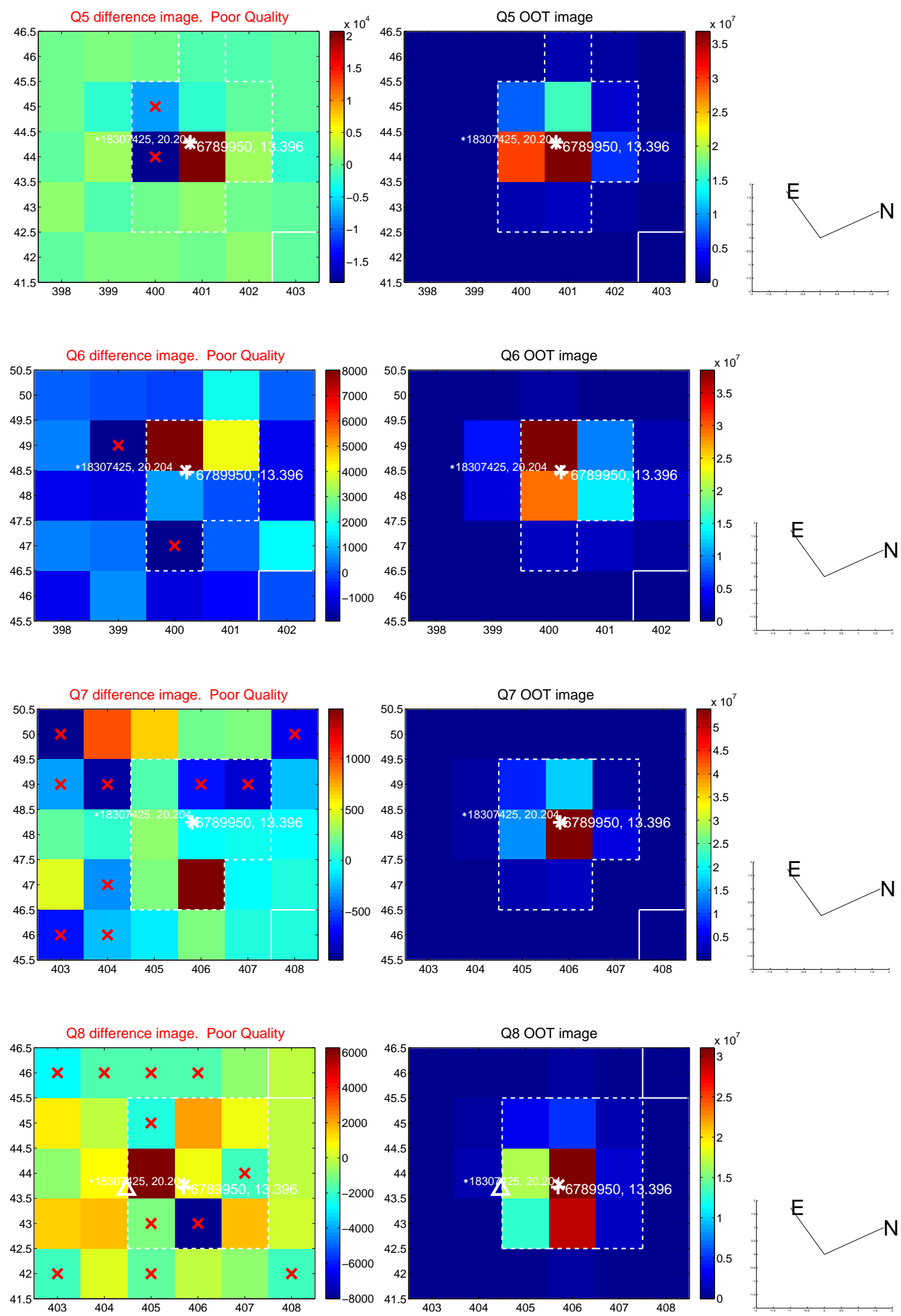


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

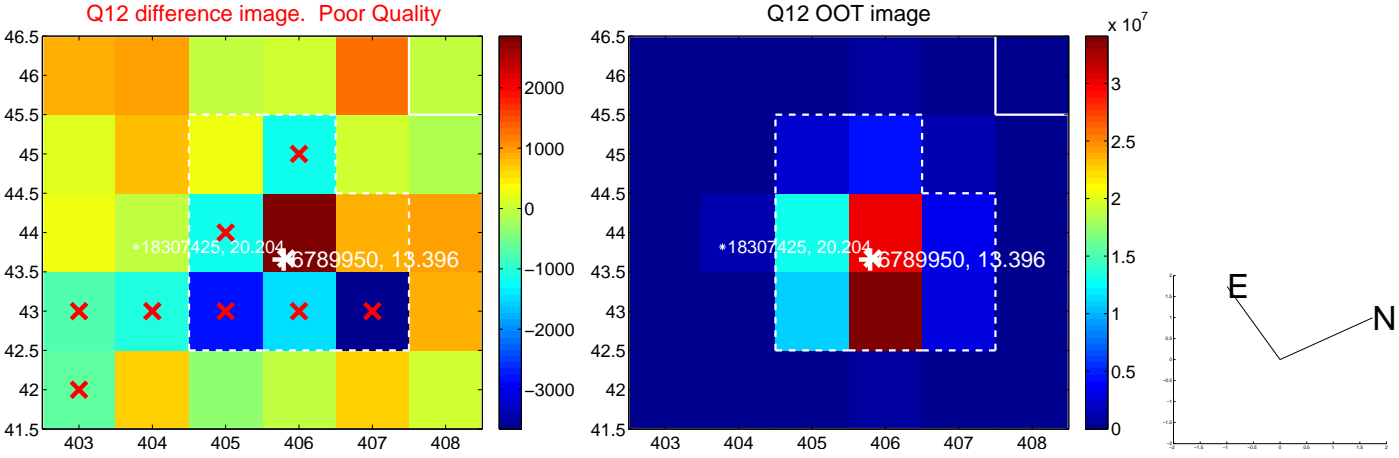
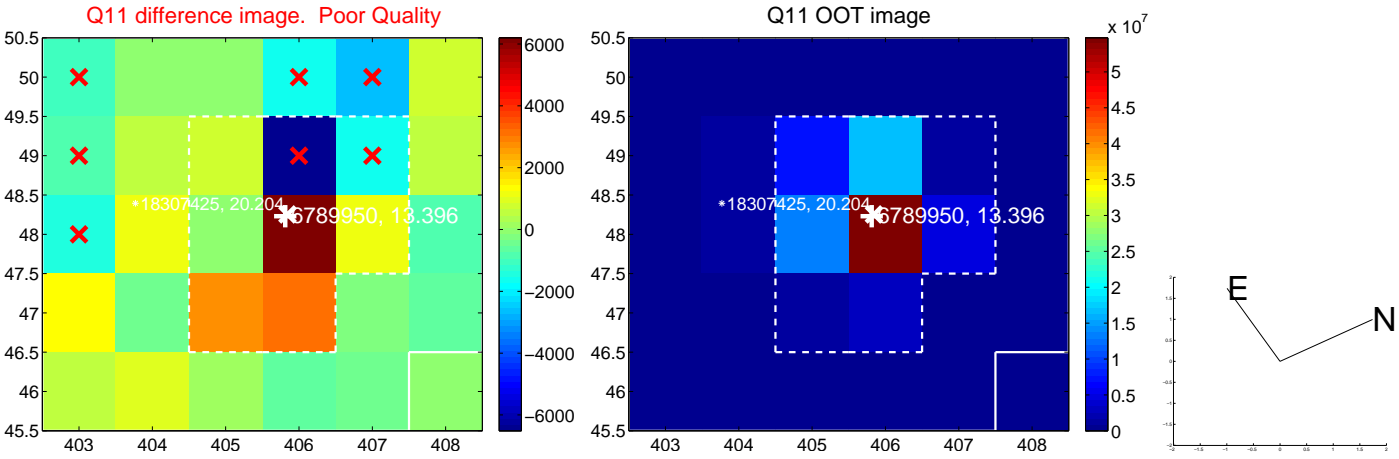
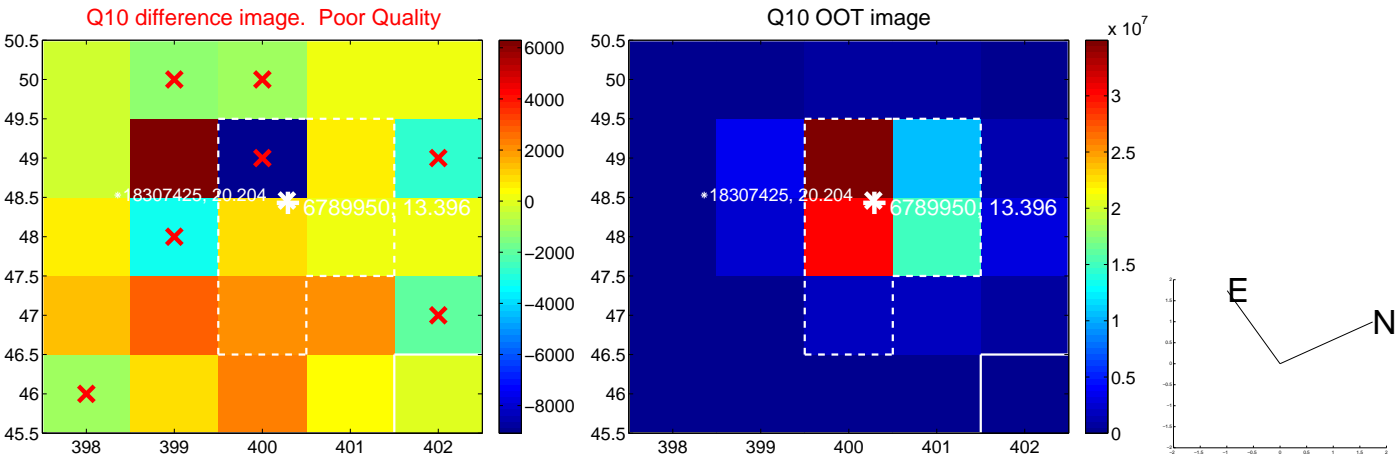
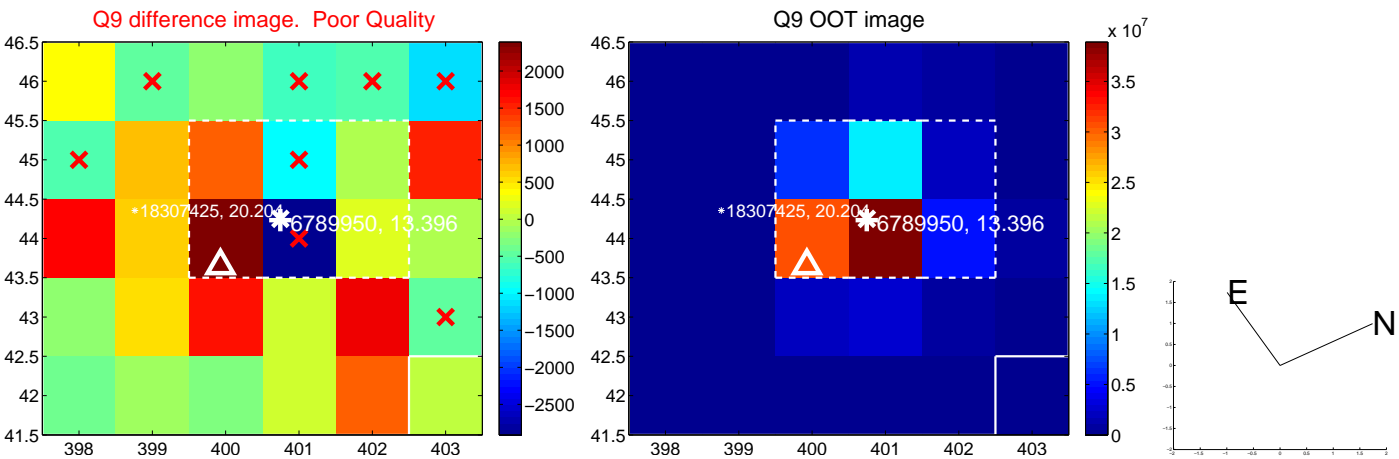
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



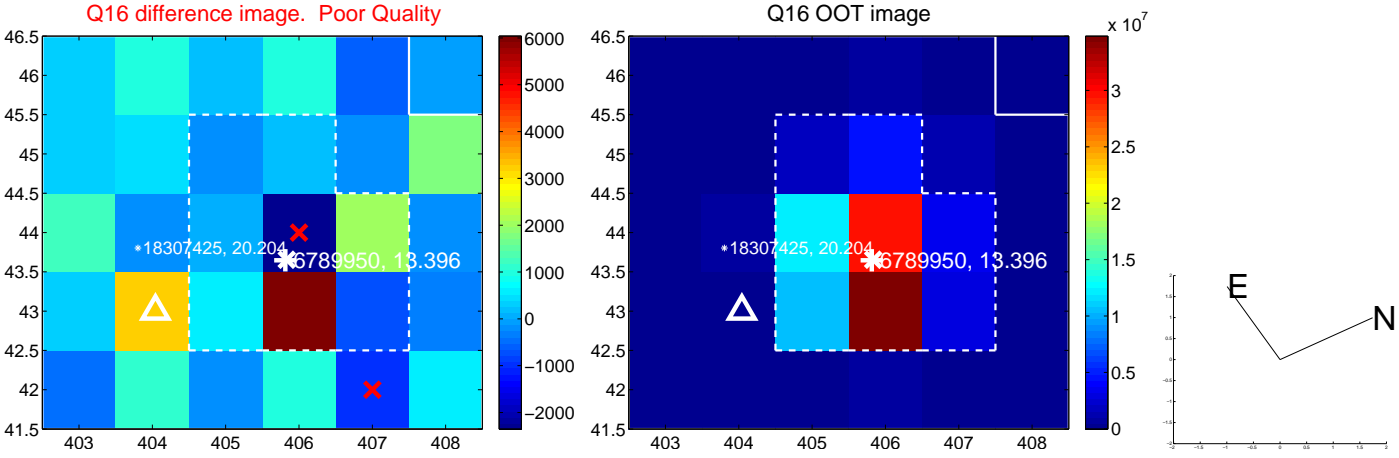
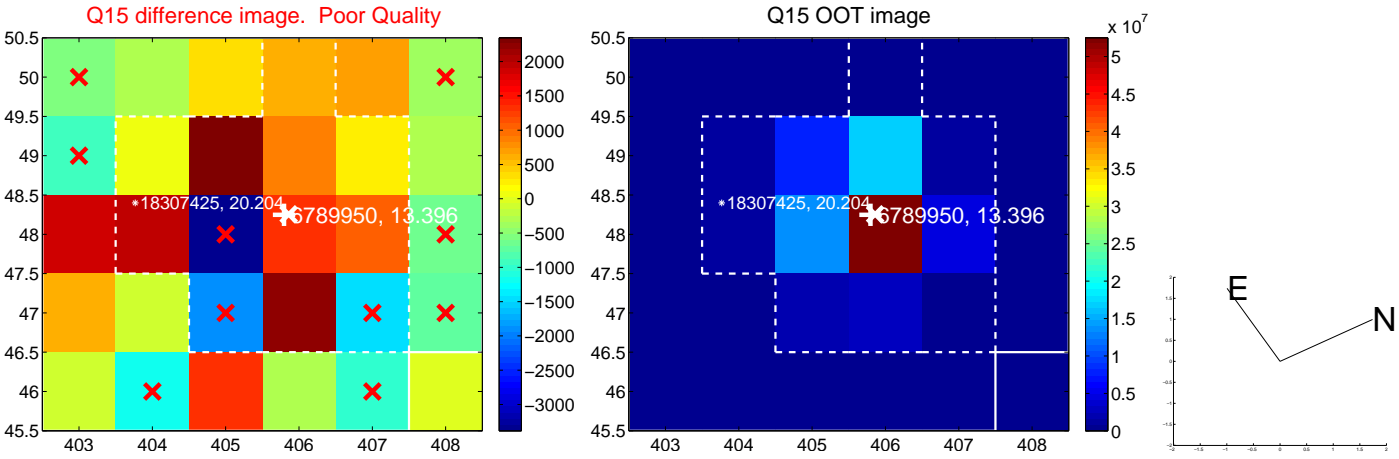
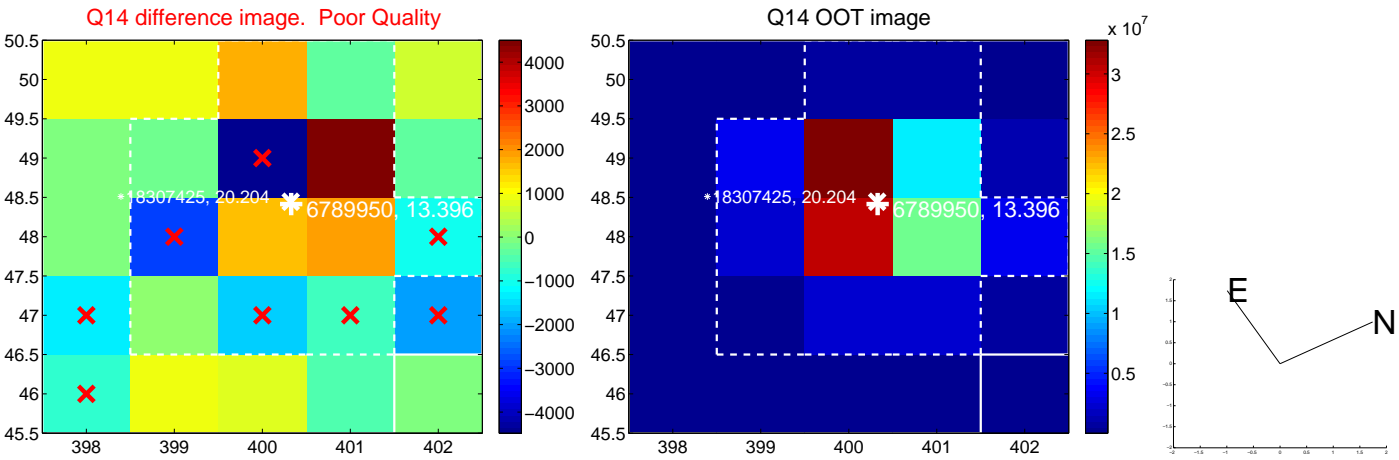
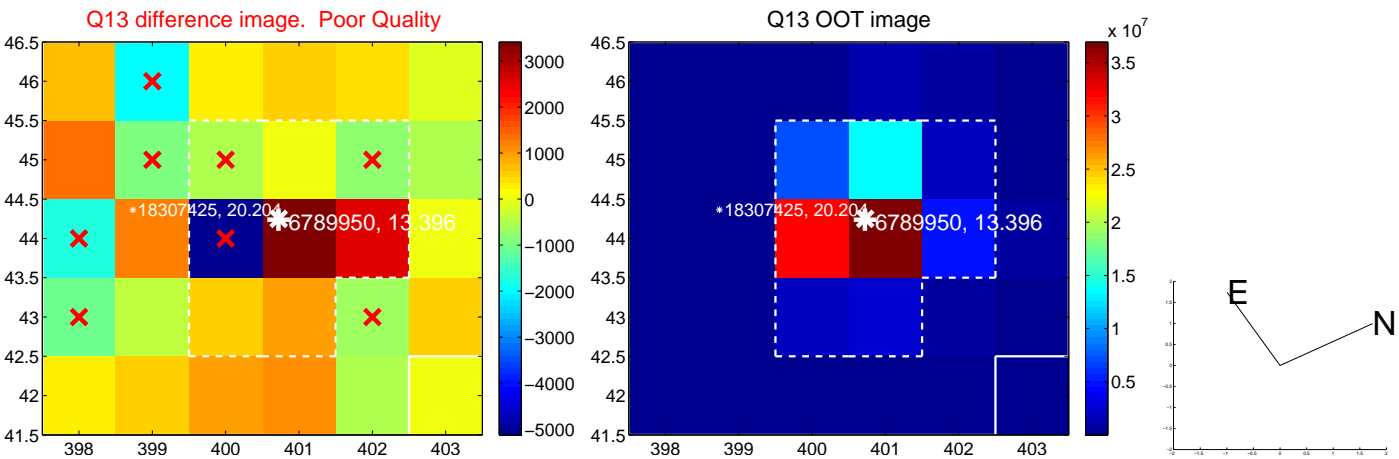
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



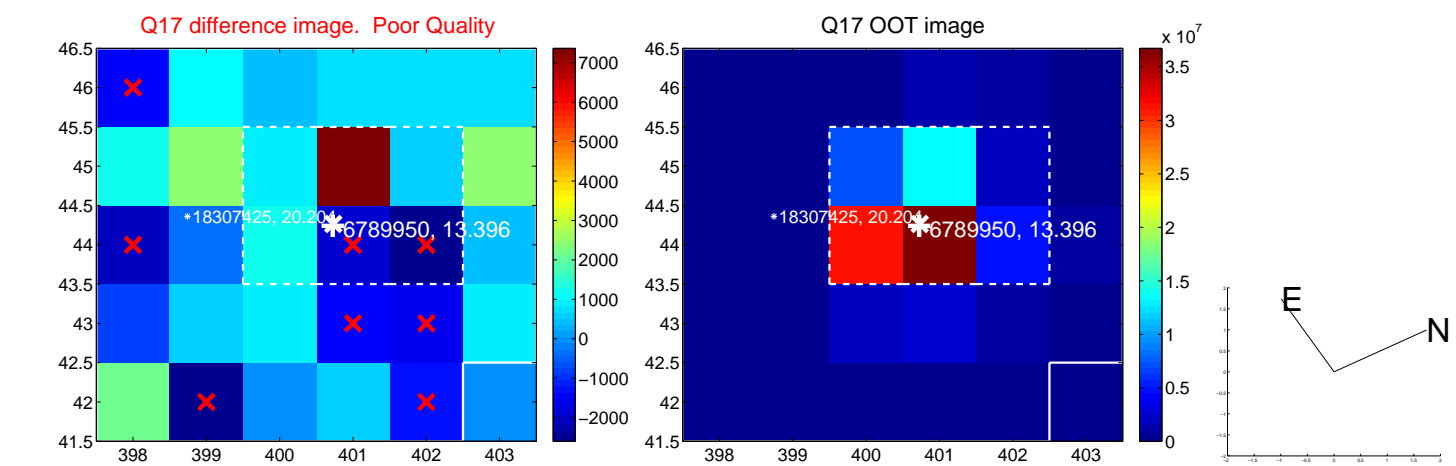
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



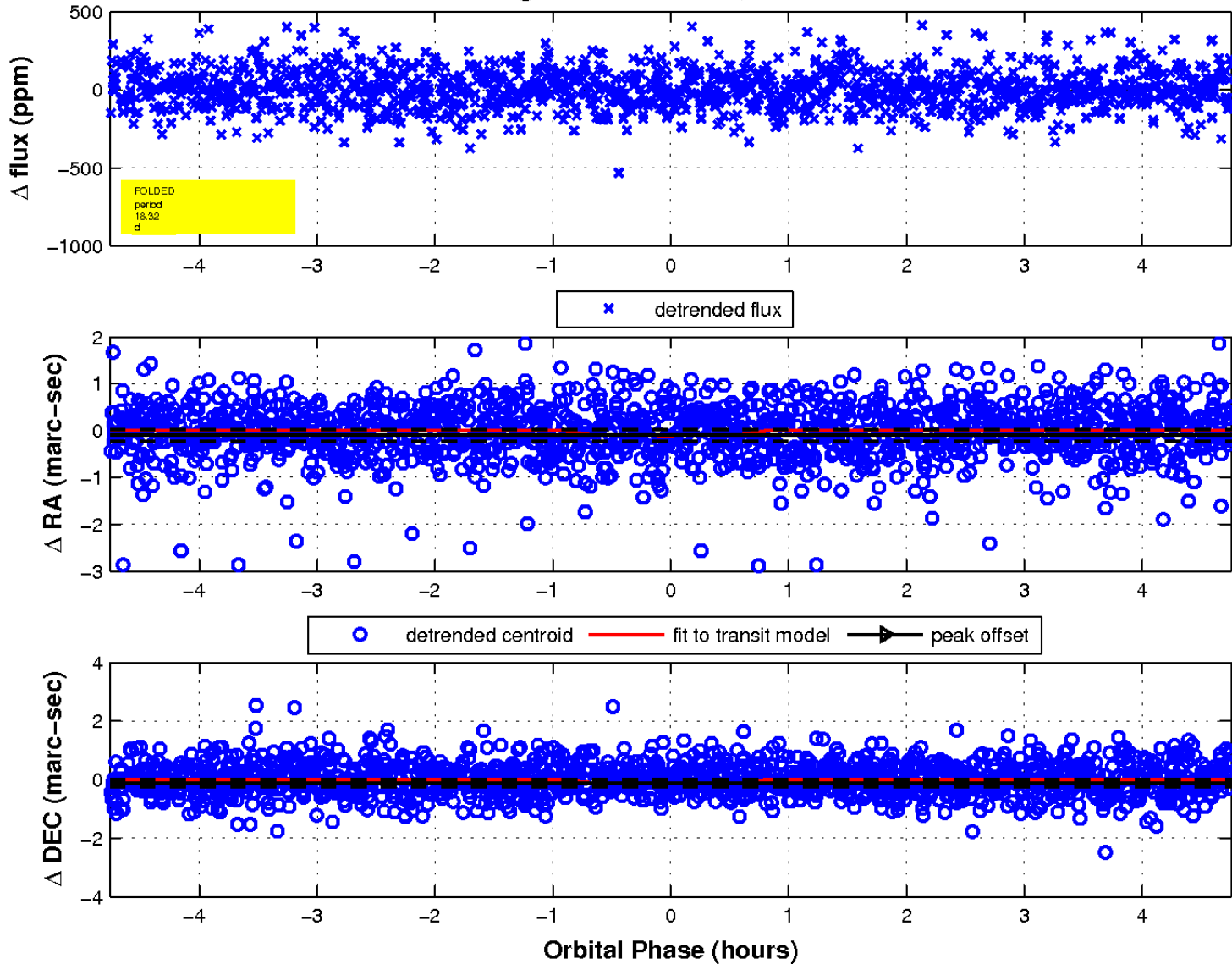
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

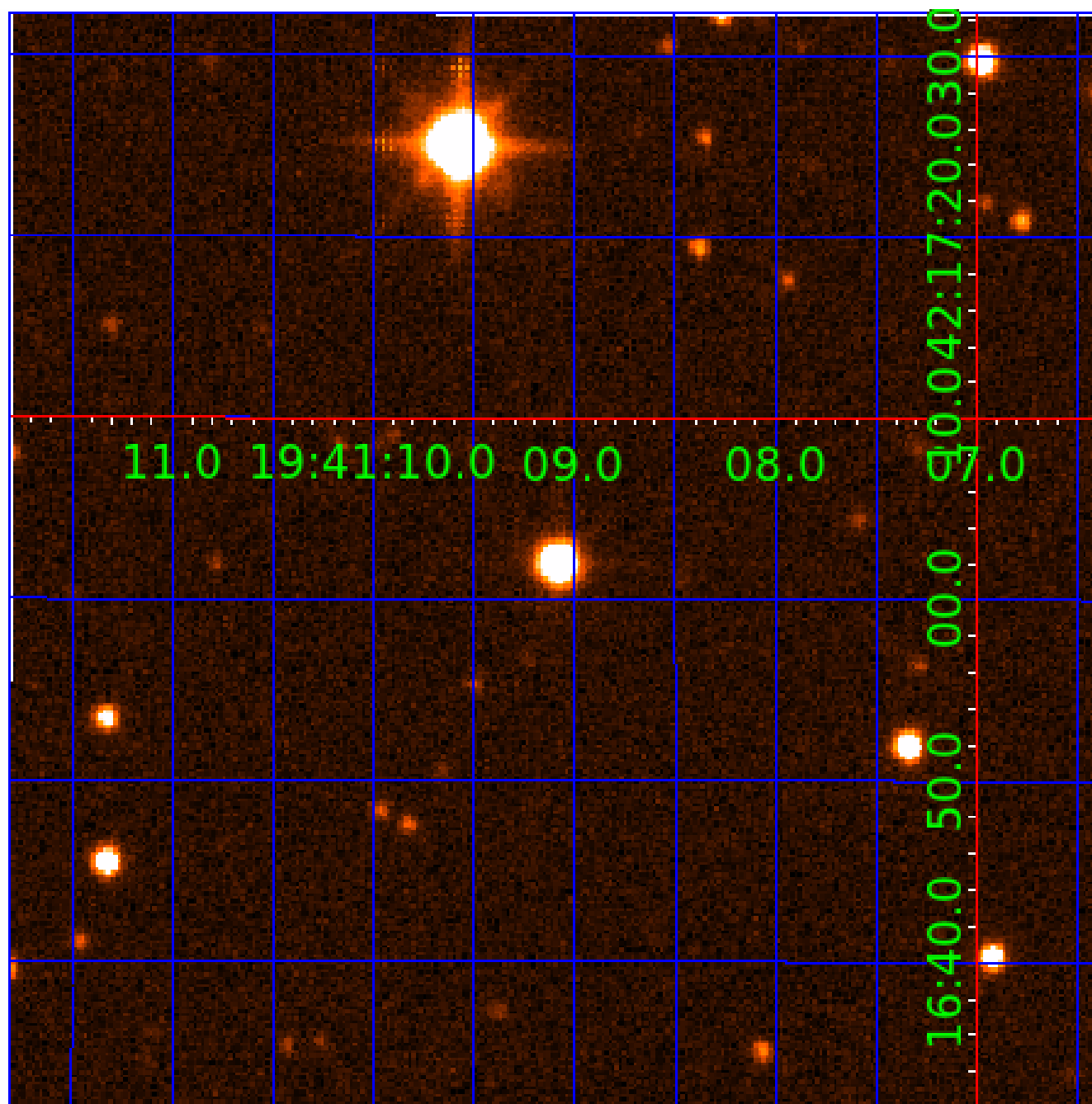


fluxWeightedCentroids, Planet 2 of 3



UKIRT Image

Declination



KIC 006789950

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})
006789950-01	OBS	No	1.234524	131.751596	10.9	9.255	7.9	9.9	2.19	7670	0.82	19713.74
006789950-02	OBS	No	18.319619	144.914696	217.8	1.588	14.0	15.0	2.19	7670	3.29	540.60
006789950-03	OBS	No	44.433707	165.770788	129.7	2.176	13.6	14.3	2.19	7670	2.79	165.89

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006789950-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS
006789950-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
006789950-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

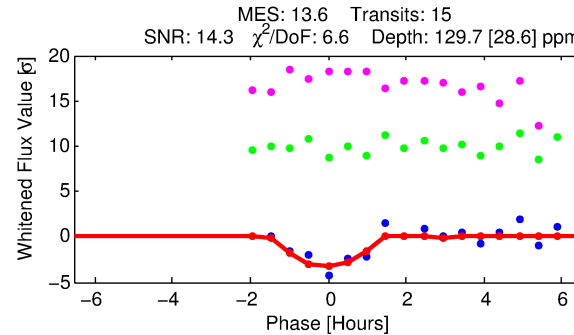
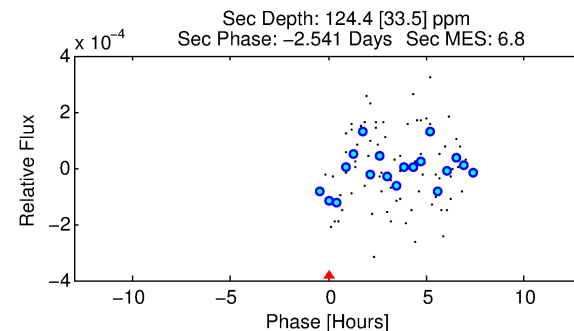
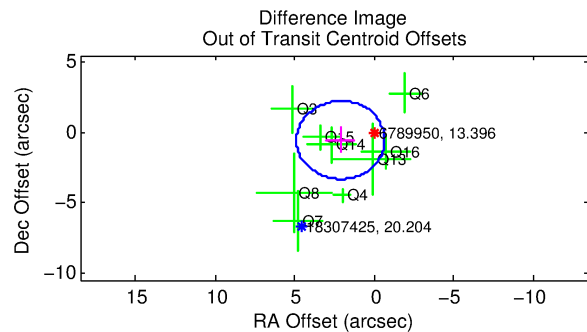
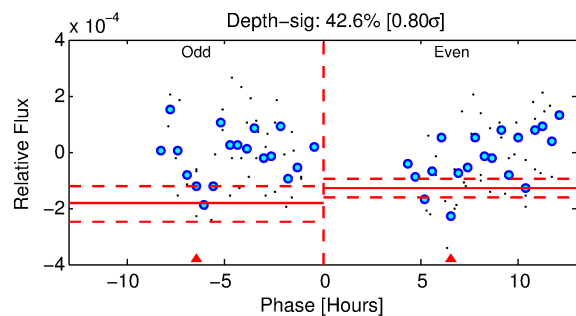
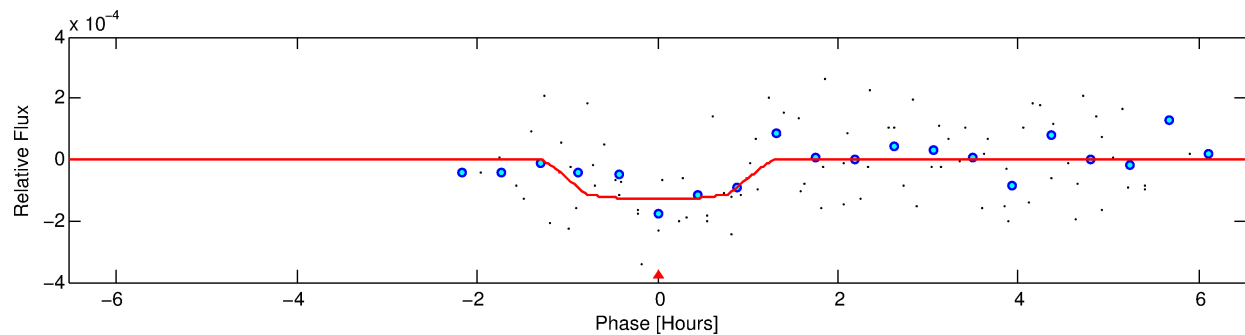
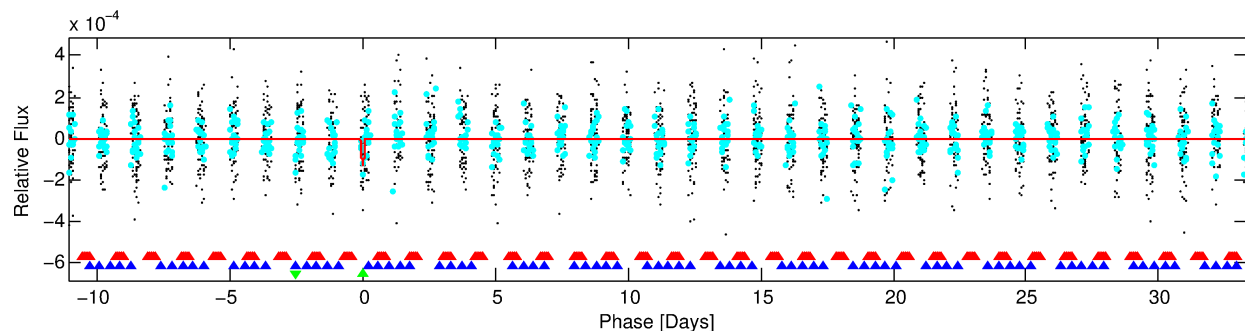
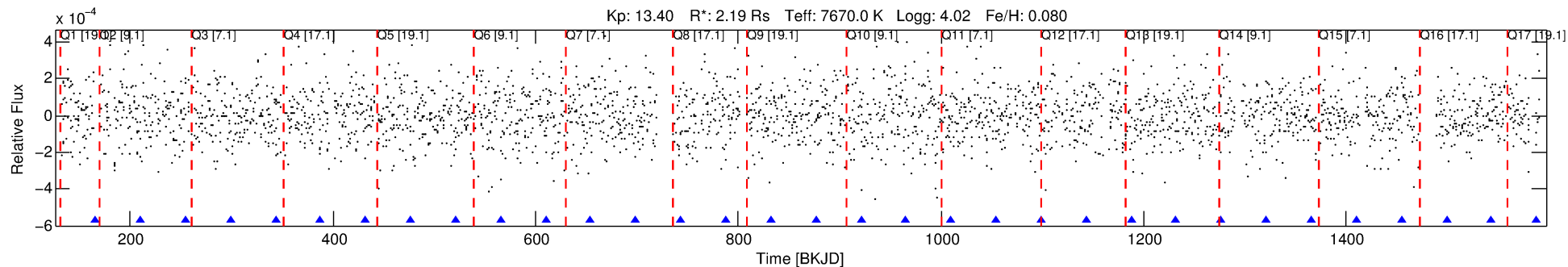
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006789950-03

No Significant Match Found

DV One-Page Summary

KIC: 6789950 Candidate: 3 of 3 Period: 44.434 d



DV Fit Results:

Period = 44.43371 [0.00271] d
Epoch = 165.7708 [0.0235] BKJD
Rp/R* = 0.0117 [0.0157]
a/R* = 89.18 [776.02]
b = 0.83 [3.16]
Seff = 165.89 [60.45]
Teq = 915 [83] K
Rp = 2.79 [3.82] Re
a = 0.2998 [0.0643] AU
Ag = 788.82 [2148.00] [0.37 σ]
Teffp = 7498 [5078] K [1.30 σ]

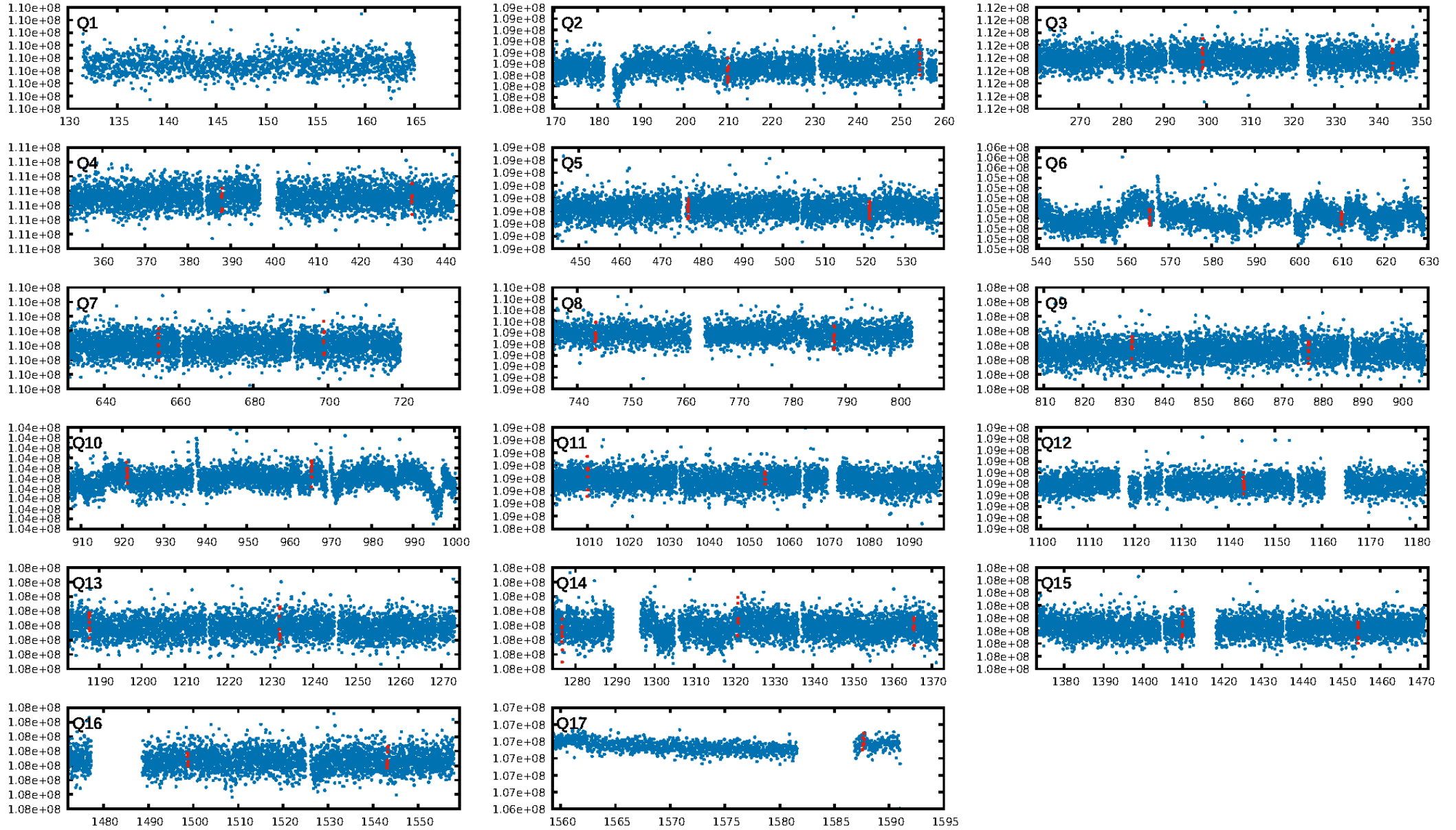
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [232.62 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 4.85e-09
RollingBand-fgt: 1.00 [15/15]
GhostDiagnostic-chr: 2.727
Centroid-sig: 4.7%
Centroid-so: 1.665 arcsec [1.37 σ]
OotOffset-rm: 2.184 arcsec [2.35 σ]
KicOffset-rm: 2.116 arcsec [2.05 σ]
OotOffset-st: 2/3/3/1 [9]
KicOffset-st: 2/3/3/1 [9]
DiffImageQuality-fgm: 0.00 [0/9]
DiffImageOverlap-fno: 0.80 [12/15]

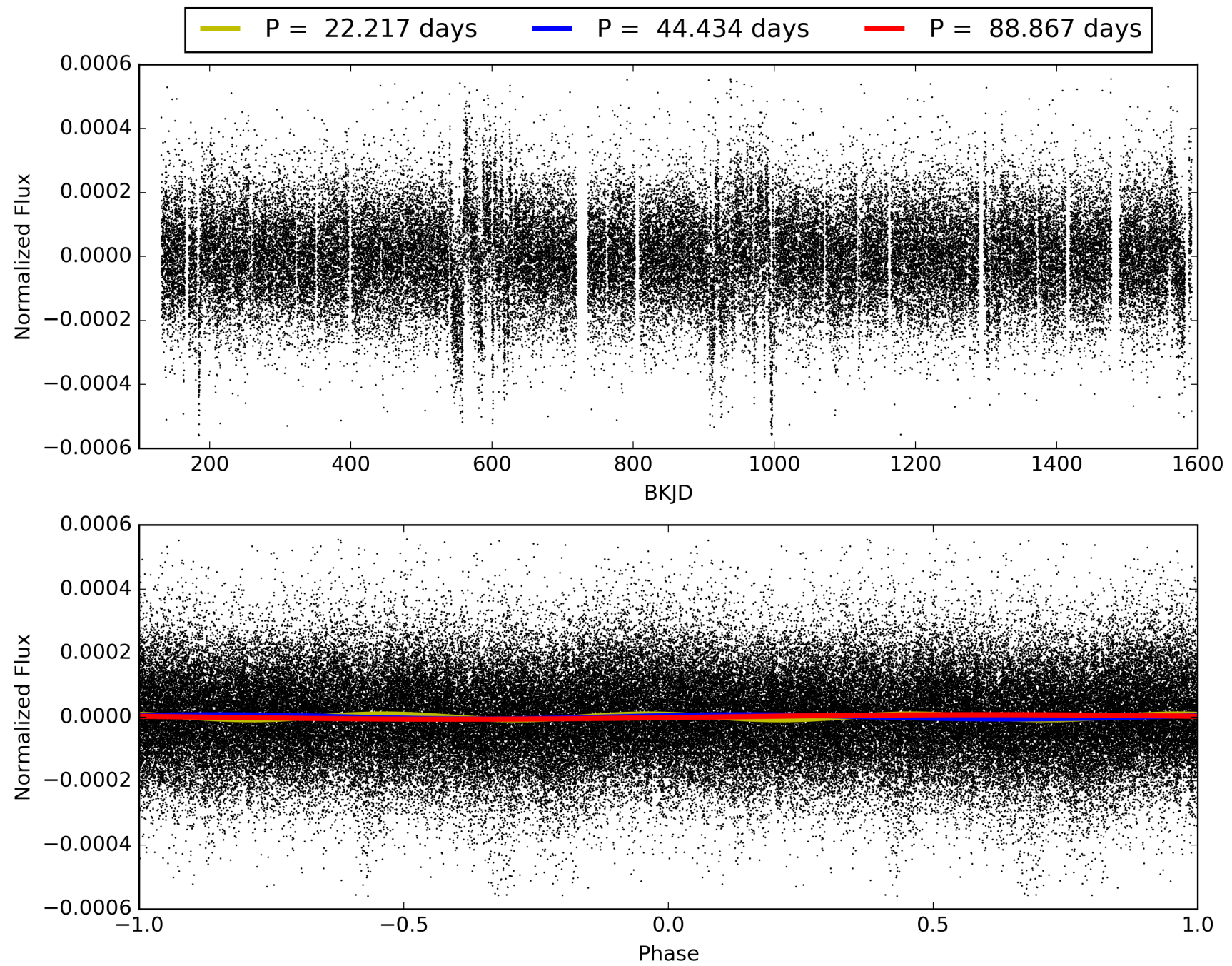
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 21:35:08 Z

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

TCE 006789950-03, PDC Light Curves

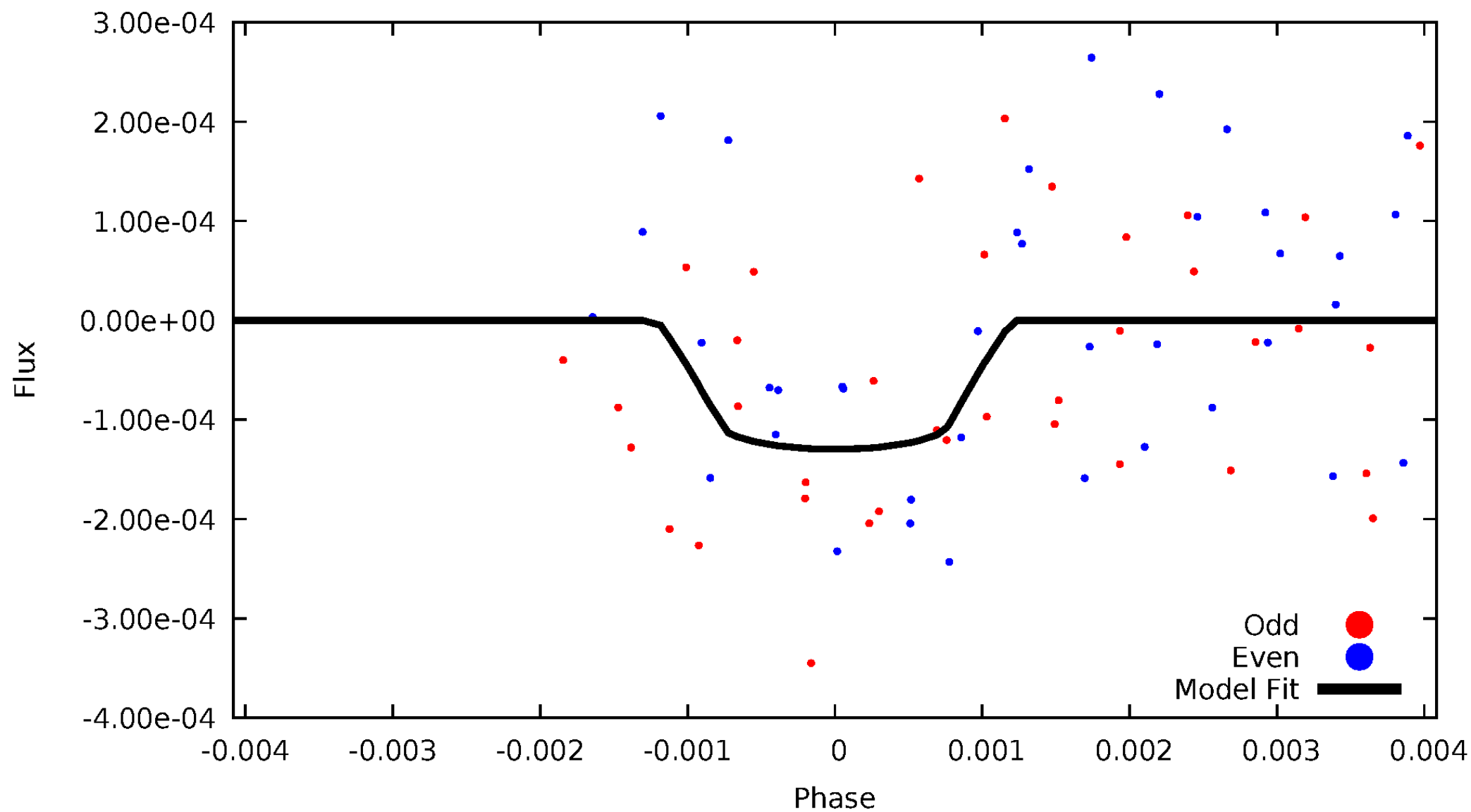


TCE 006789950-03



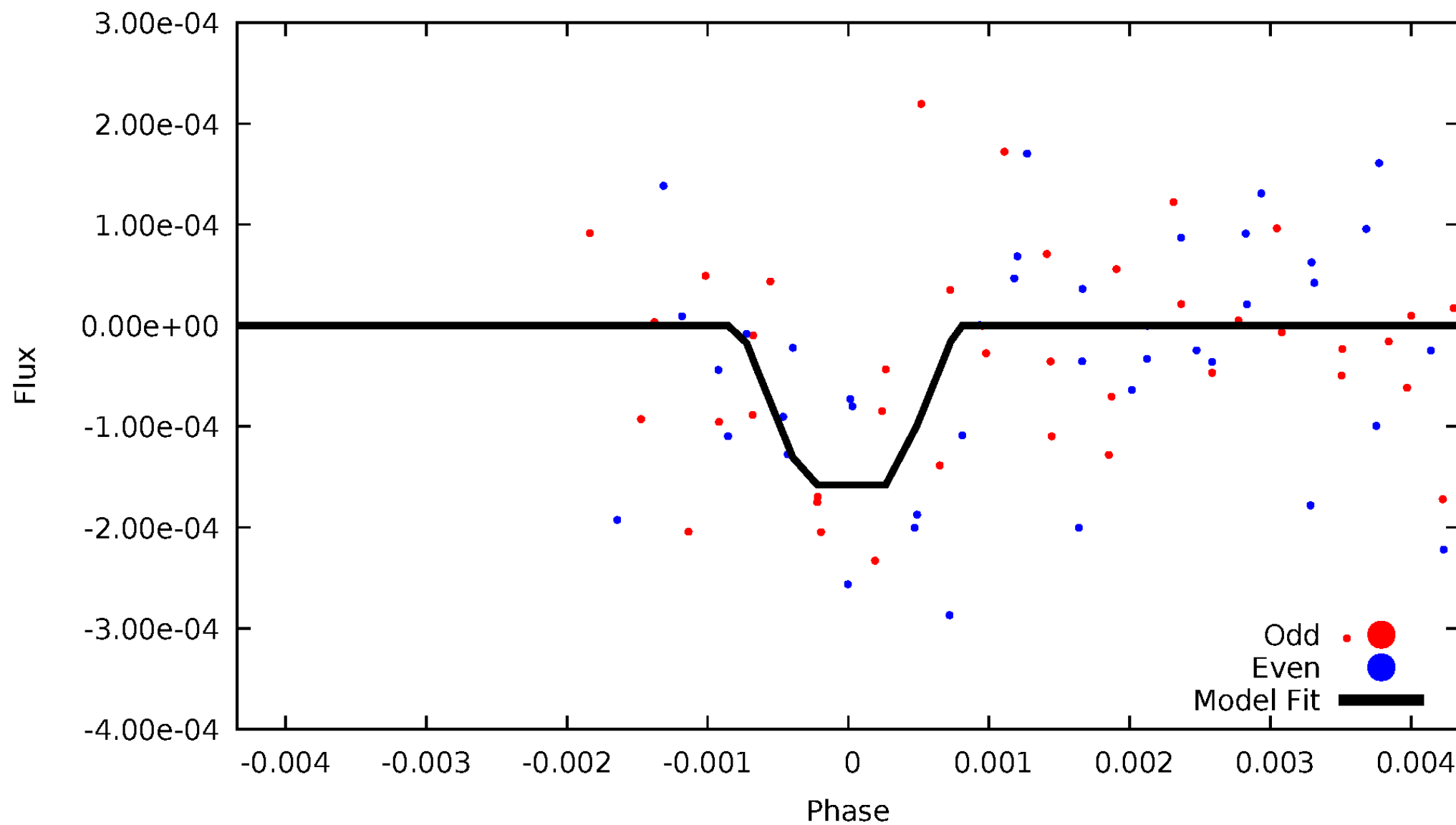
DV Odd/Even

TCE 006789950-03



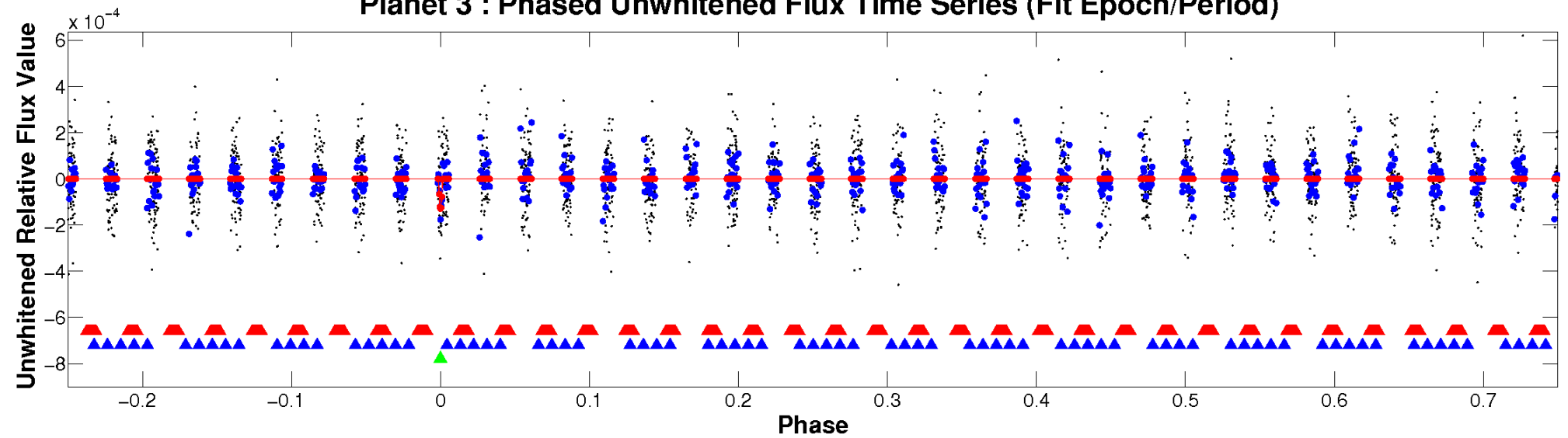
ALT Odd/Even

TCE 006789950-03

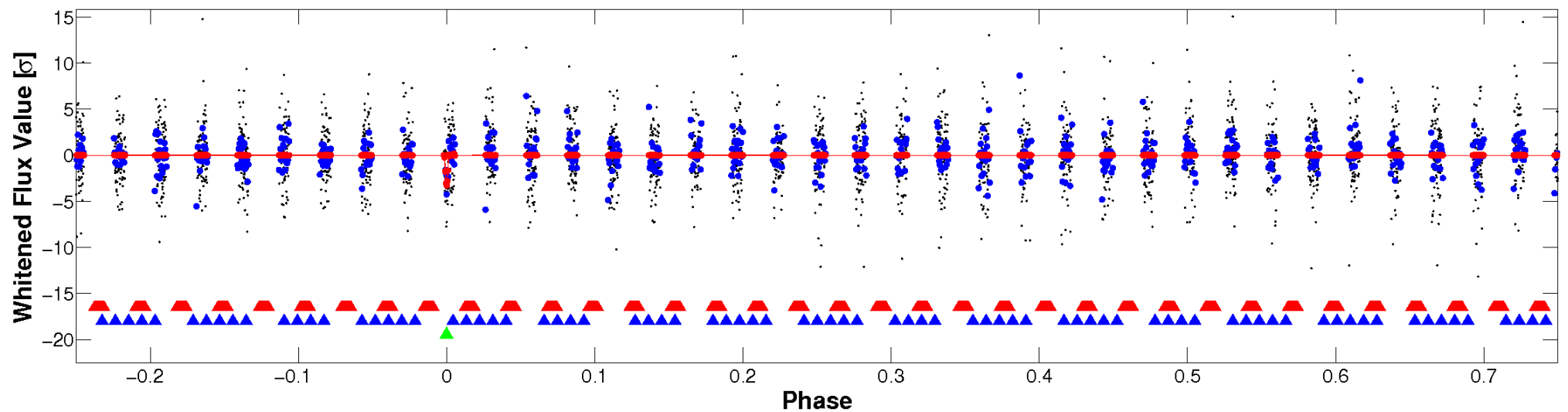


Non-Whitened Vs. Whitened Light Curve

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

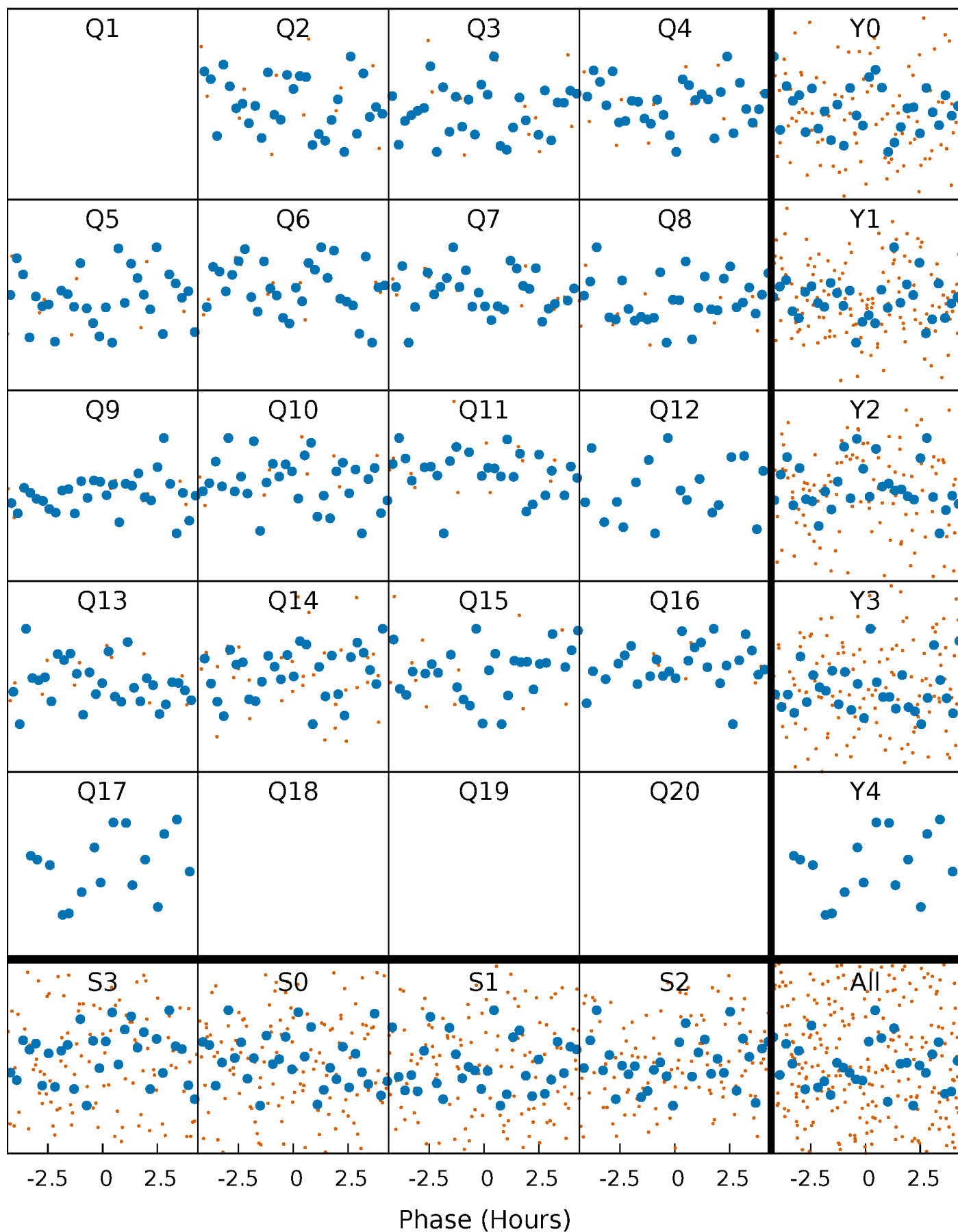


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



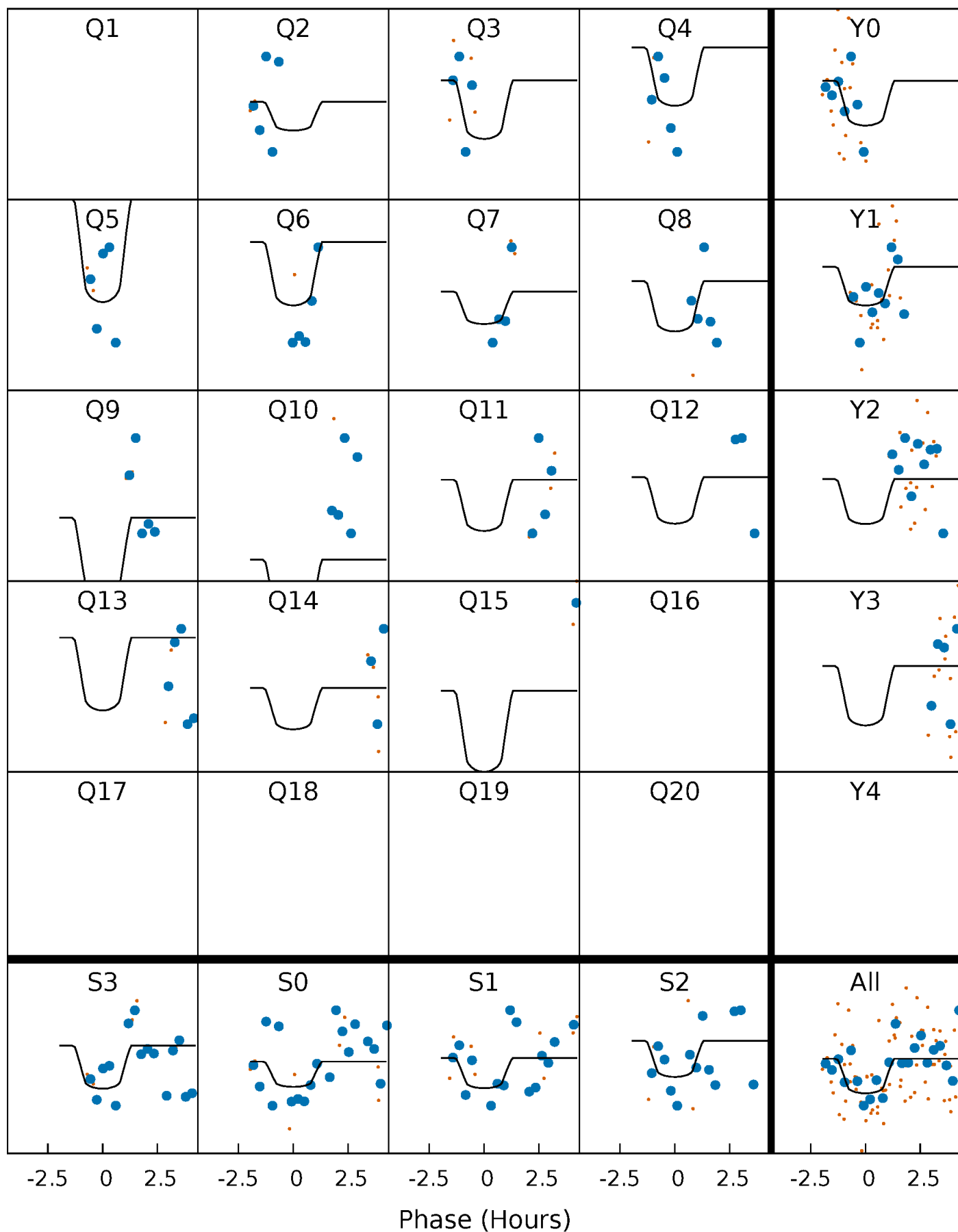
PDC Quarter-Phased Transit Curves

TCE 006789950-03 P= 44.433707 Days $T_0=165.770788$ (BKJD)



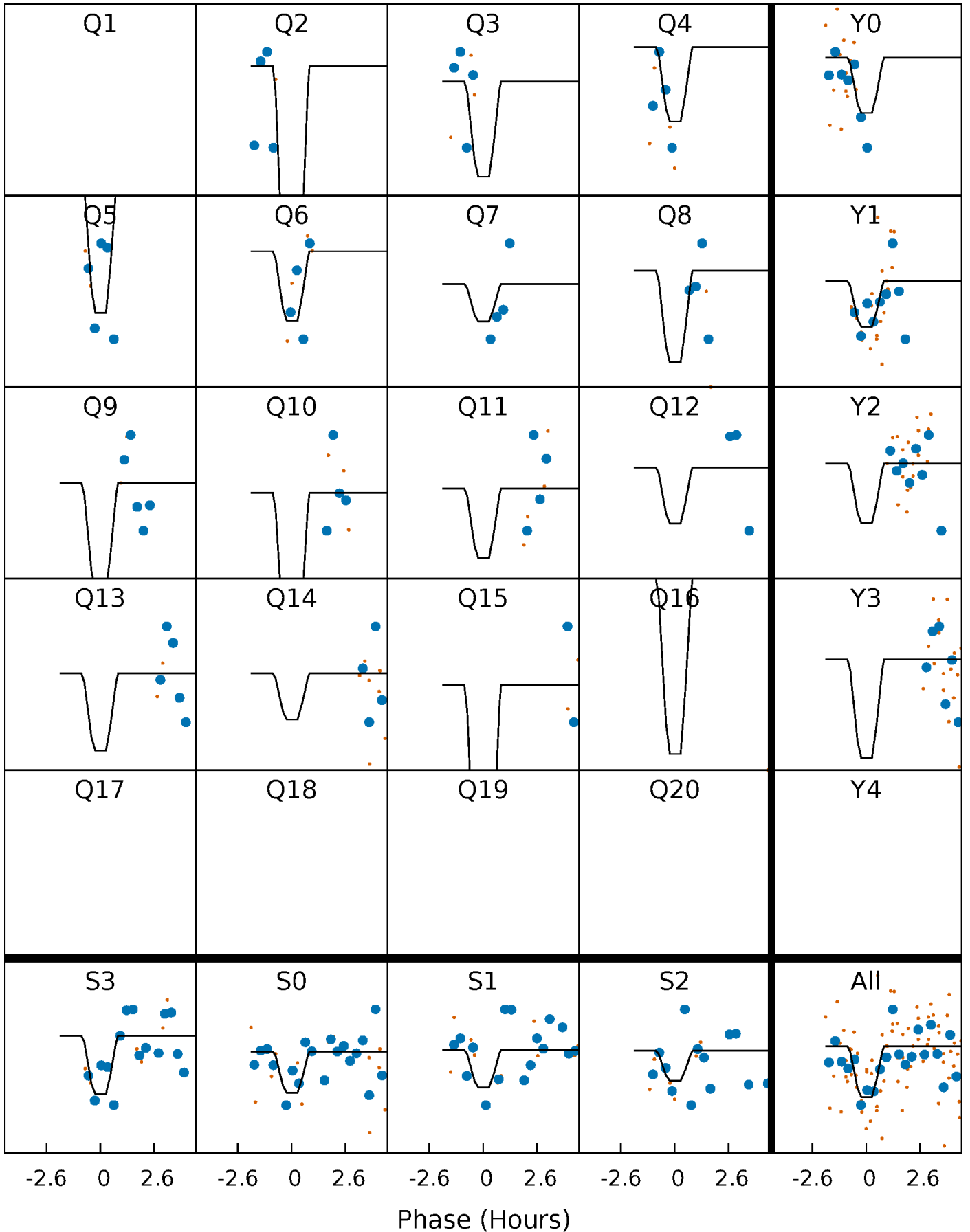
DV Quarter-Phased Transit Curves

TCE 006789950-03 P= 44.433707 Days $T_0=165.770788$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

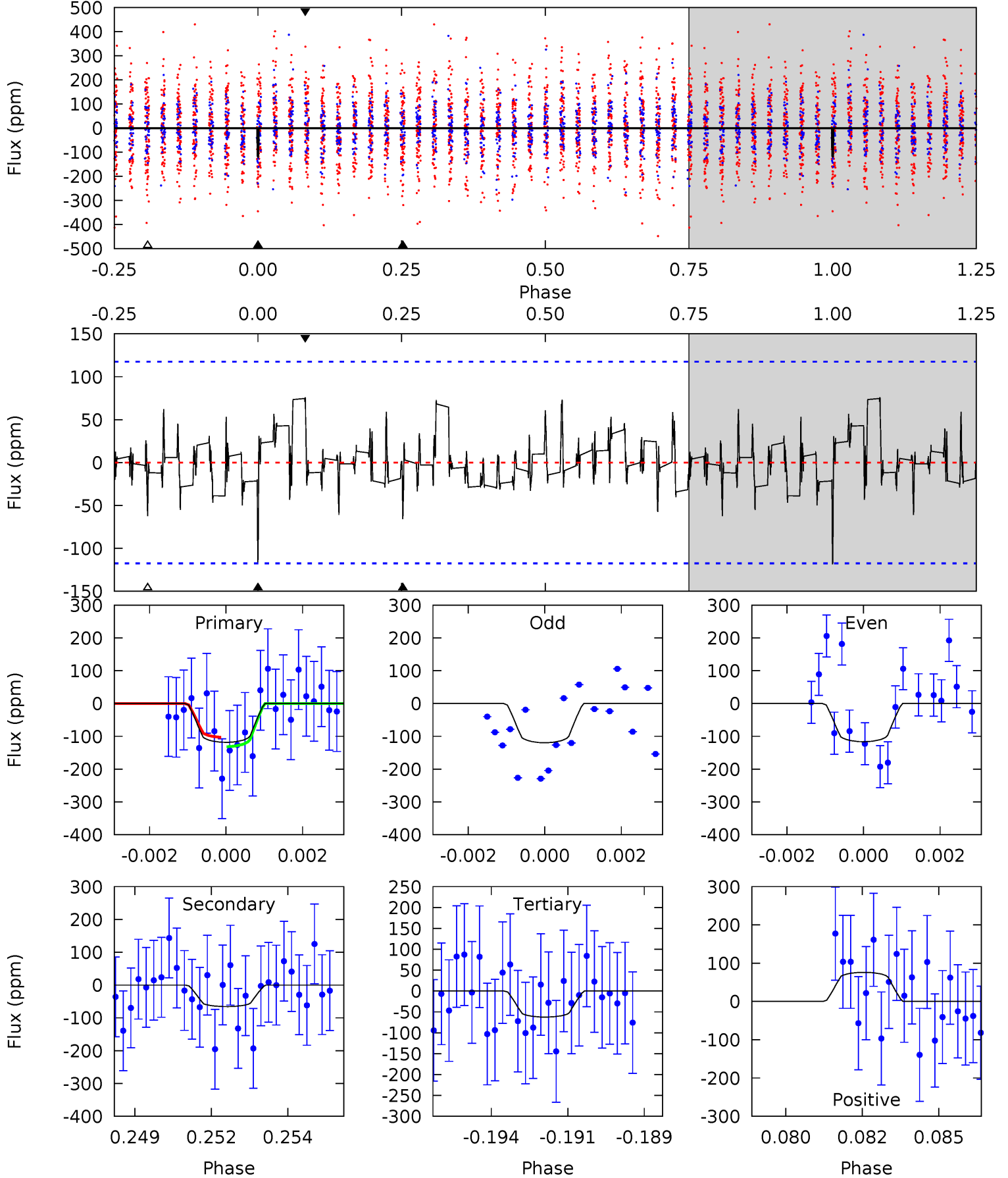
TCE 006789950-03 P= 44.433924 Days $T_0=165.770317$ (BKJD)



DV Model-Shift Uniqueness Test

006789950-03, P = 44.433707 Days, E = 121.337081 Days

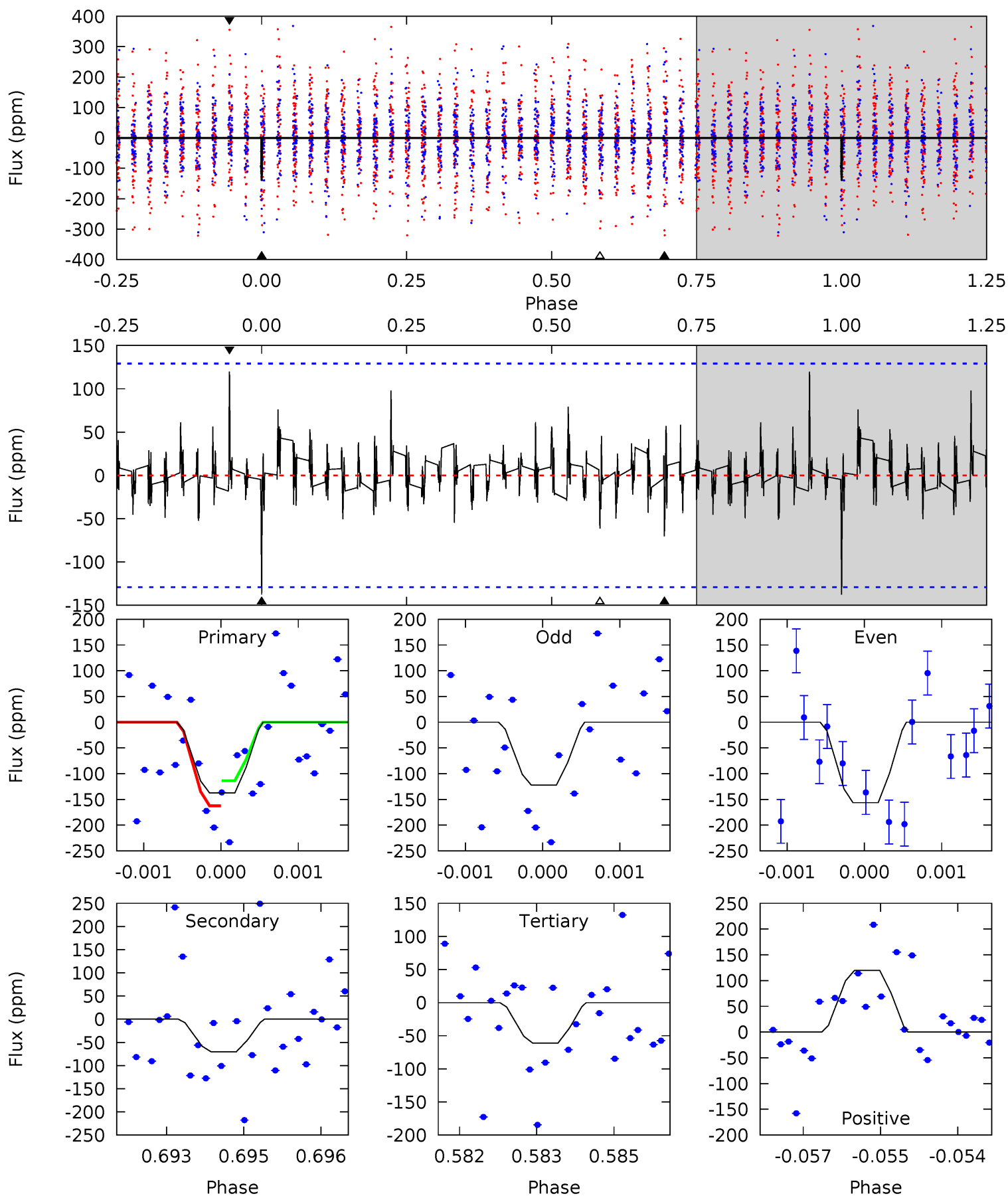
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.34	2.96	2.81	3.43	5.29	3.03	1.11	2.52	1.91	0.14	-0.47	0.07	0.55	0.39	0.64



Alt Model-Shift Uniqueness Test

006789950-03, P = 44.433924 Days, E = 121.336393 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.74	2.93	2.55	4.99	5.38	3.18	0.99	3.19	0.74	0.38	-2.06	0.71	1.13	0.47	1.02



Stellar Parameters For KIC 006789950

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7670^{+214}_{-322}	$4.016^{+0.182}_{-0.149}$	$0.080^{+0.150}_{-0.350}$	$2.193^{+0.536}_{-0.536}$	$1.818^{+0.170}_{-0.315}$	$0.243^{+0.239}_{-0.104}$
	+3%/-4%	+5%/-4%	+188%/-438%	+24%/-24%	+9%/-17%	+99%/-43%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006789950-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-66 ± 22	$3.77^{+3.25}_{-2.61}$	1266^{+92}_{-92}	5350^{+4653}_{-1332}	222^{+1876}_{-170}
Alt.	-70 ± 24	$4.01^{+3.43}_{-2.55}$	1271^{+90}_{-91}	5187^{+4136}_{-1092}	202^{+1426}_{-146}

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 $A_{obs} \gg 1.0$

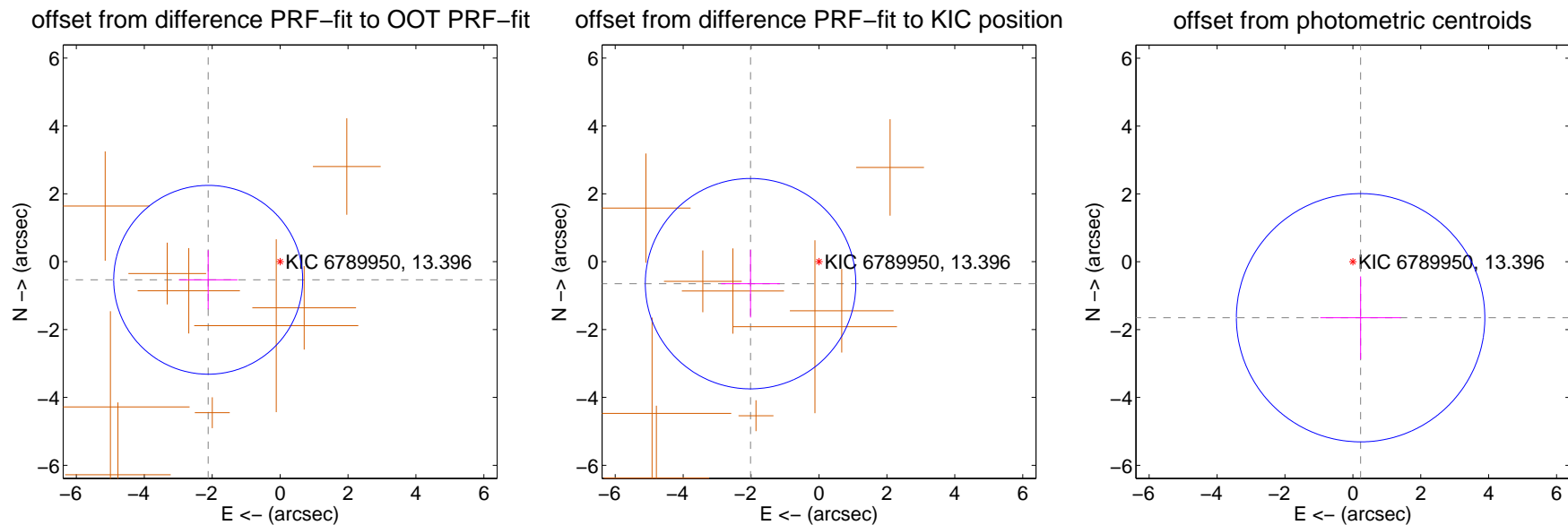
DV Centroid Data

Supplemental centroid analysis for 006789950-03. Kepler magnitude: 13.40. Transit SNR 14.30

There are 0 quarters with good PRF difference image offsets

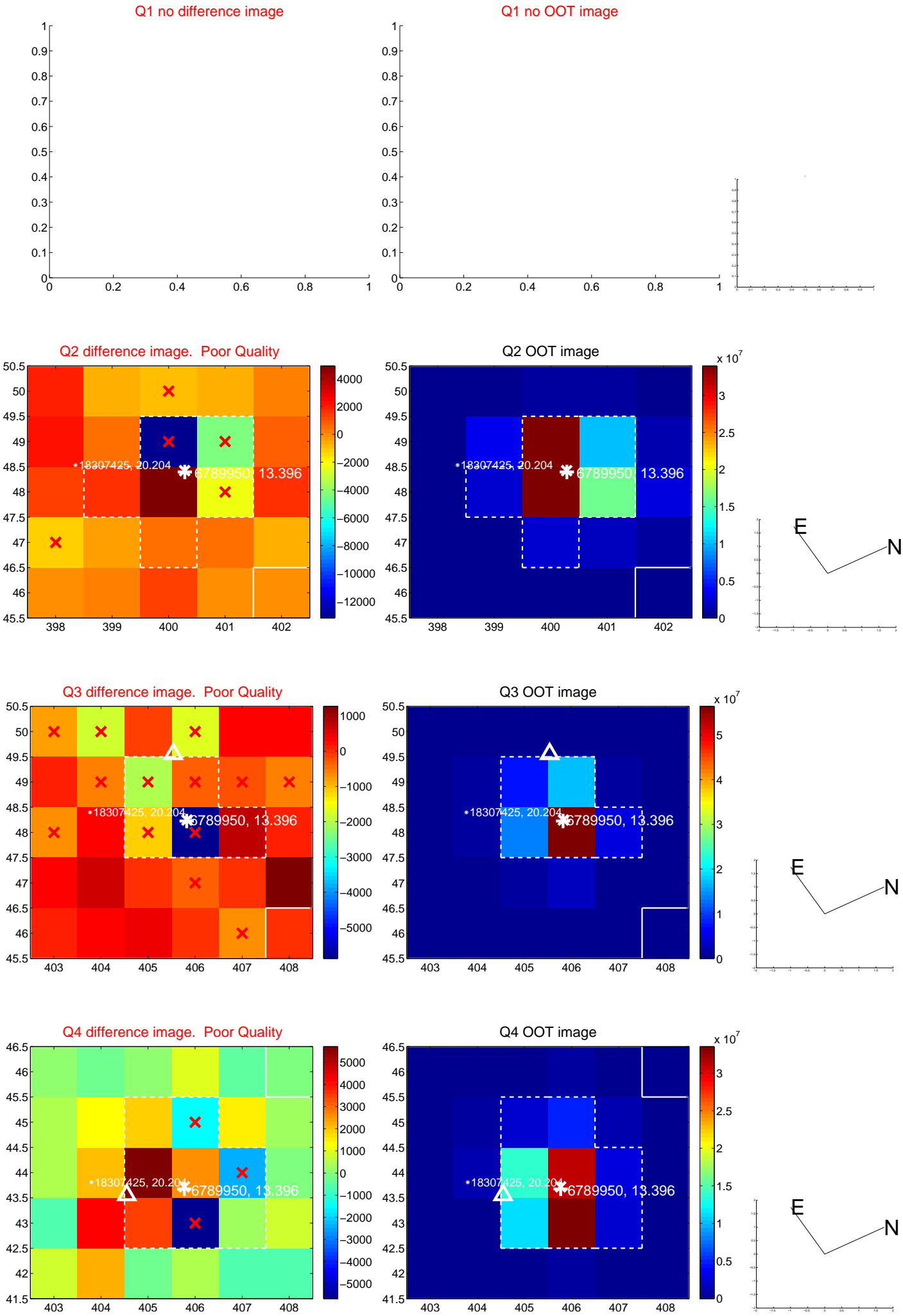
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.184 ± 0.927	2.35	2.117 ± 0.861	-0.533 ± 0.869
PRF-fit source offset from KIC position	2.116 ± 1.033	2.05	2.015 ± 0.865	-0.648 ± 0.996
photometric centroid source offset	1.67 ± 1.22	1.37	-0.23 ± 1.19	-1.65 ± 1.22

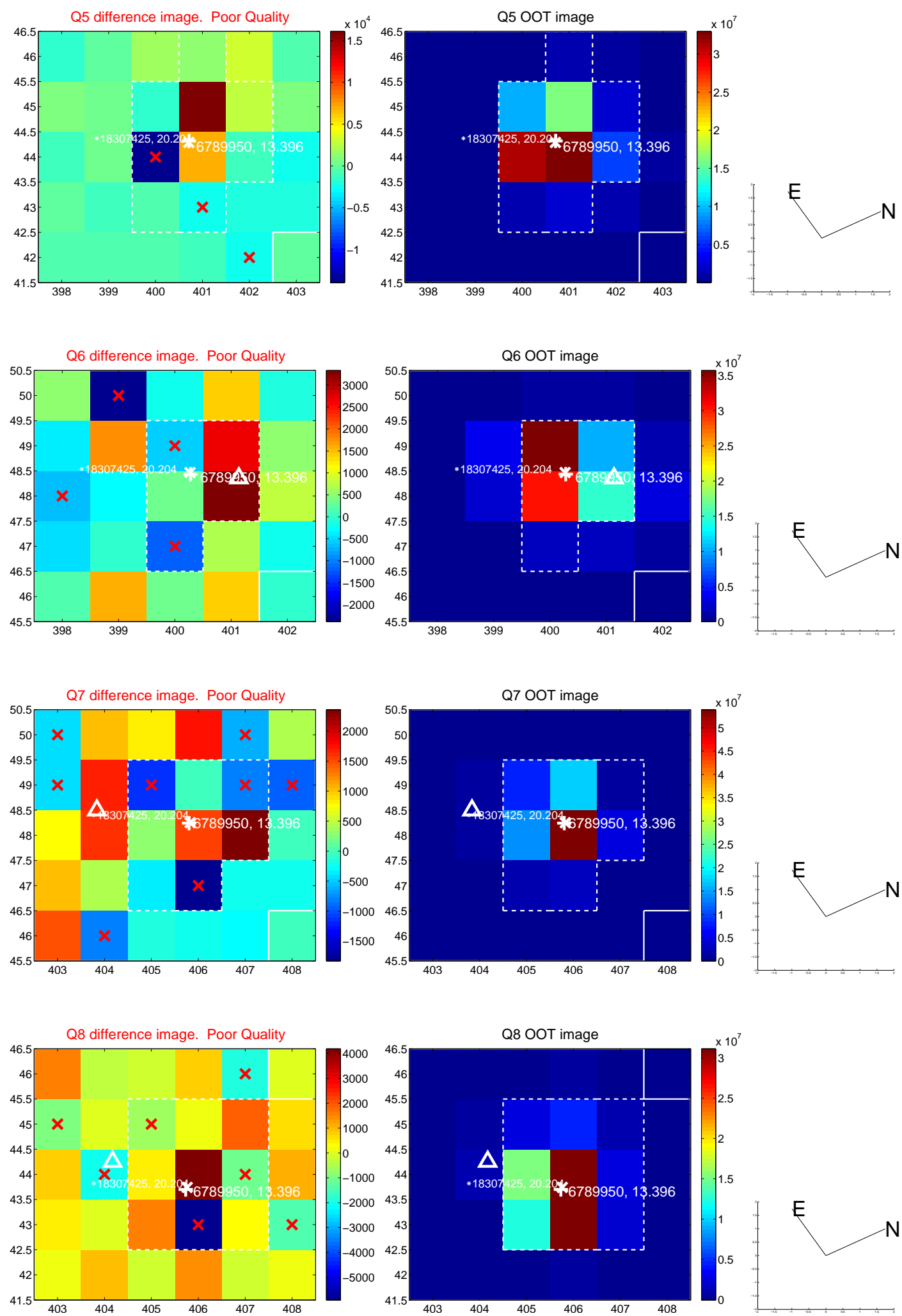


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

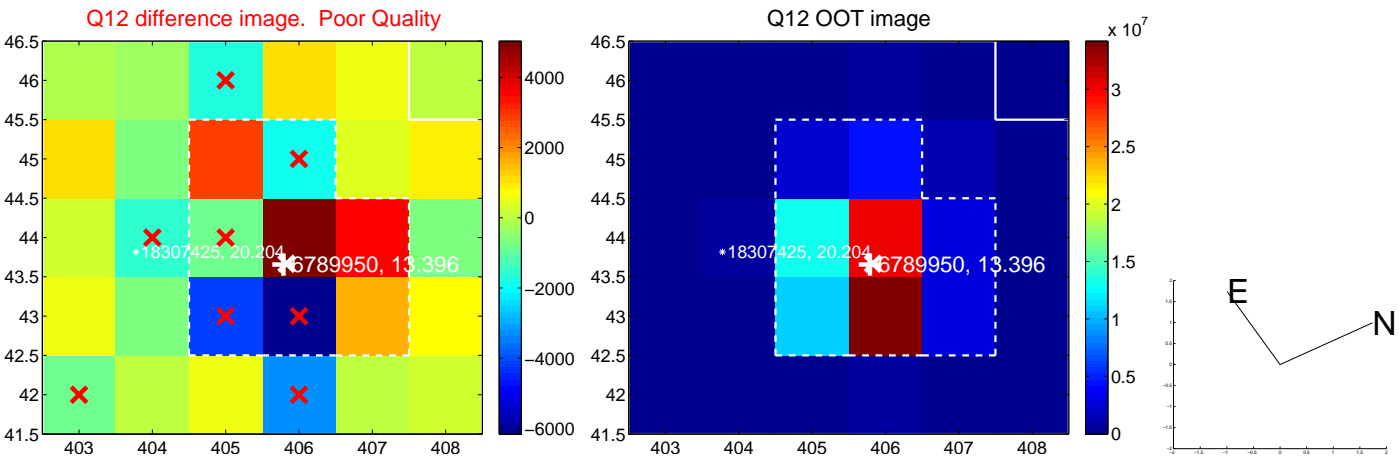
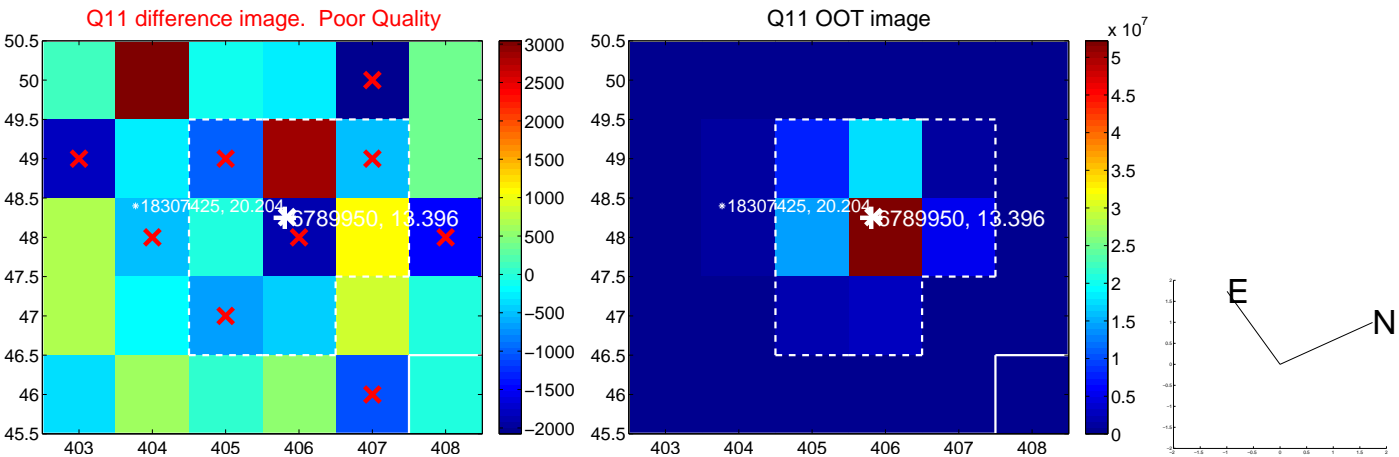
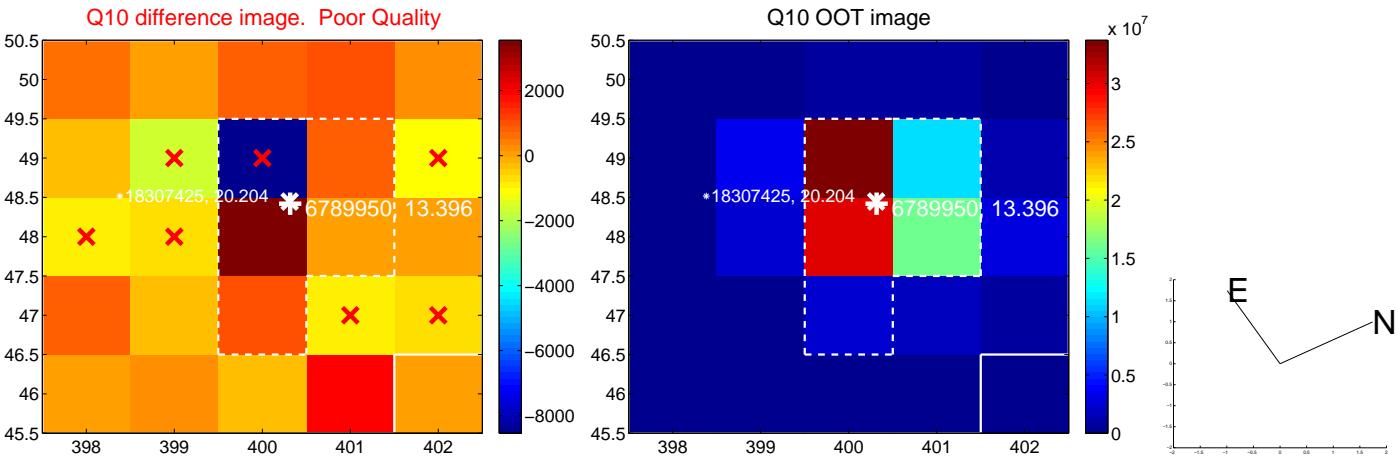
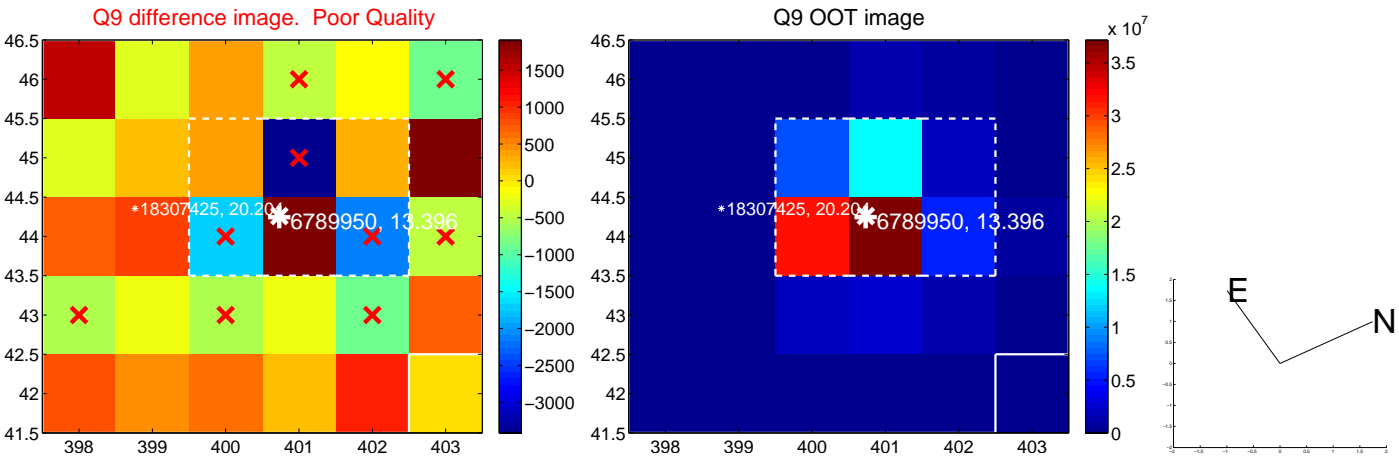
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



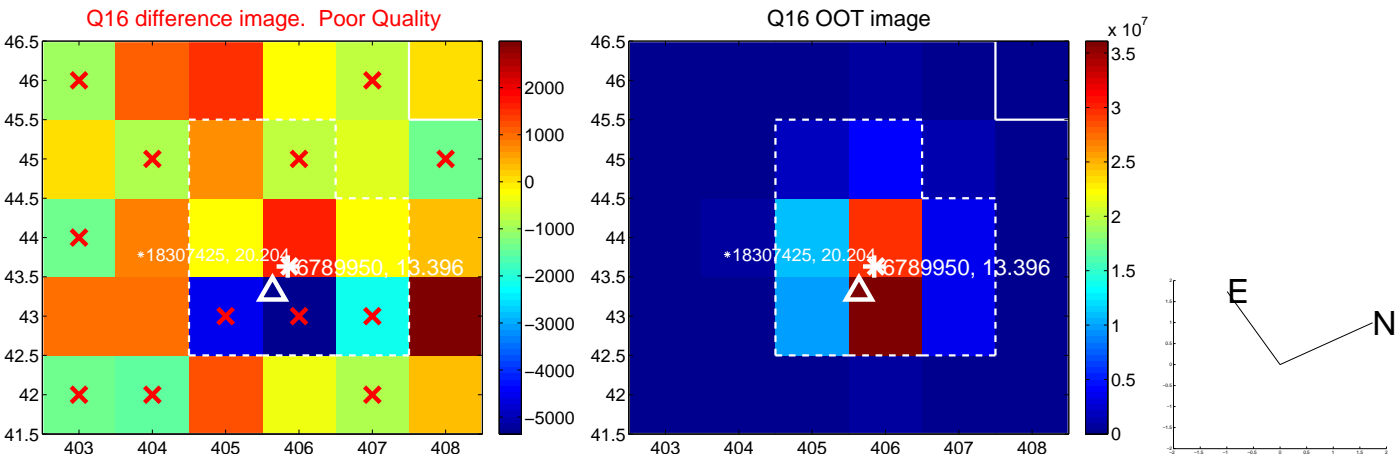
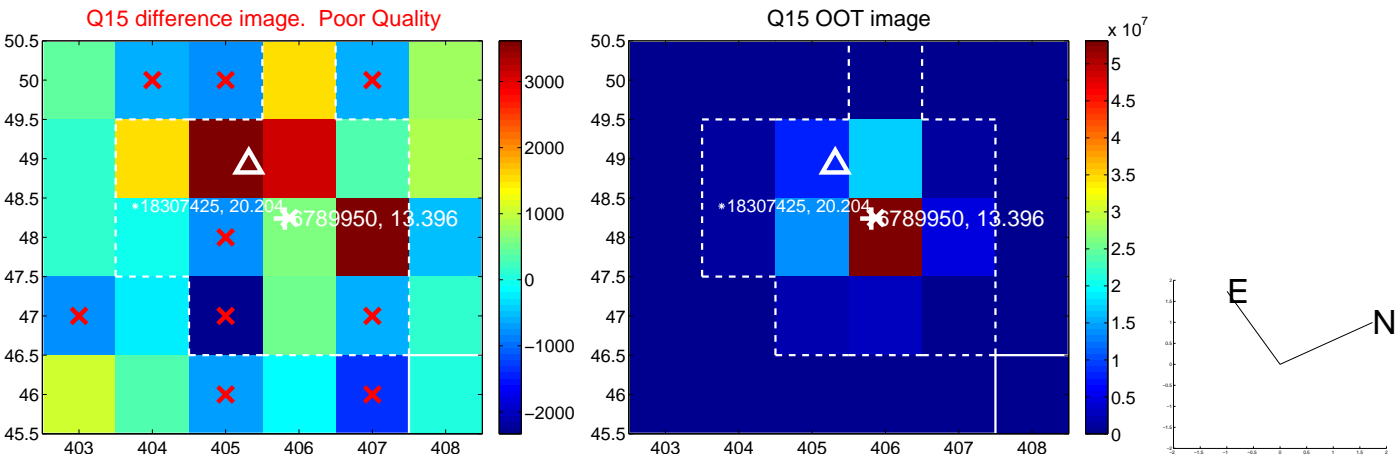
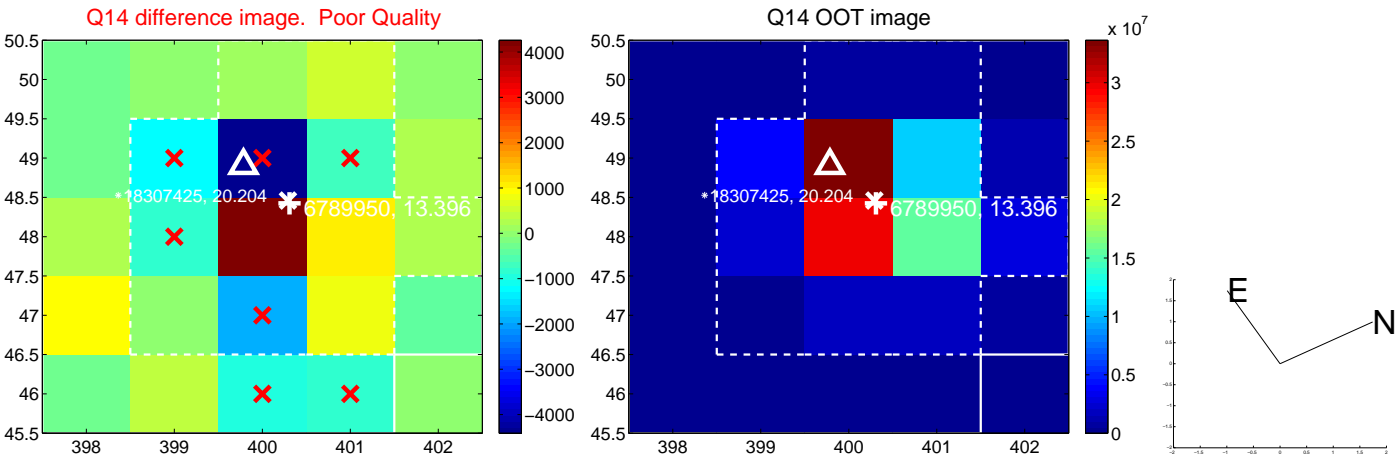
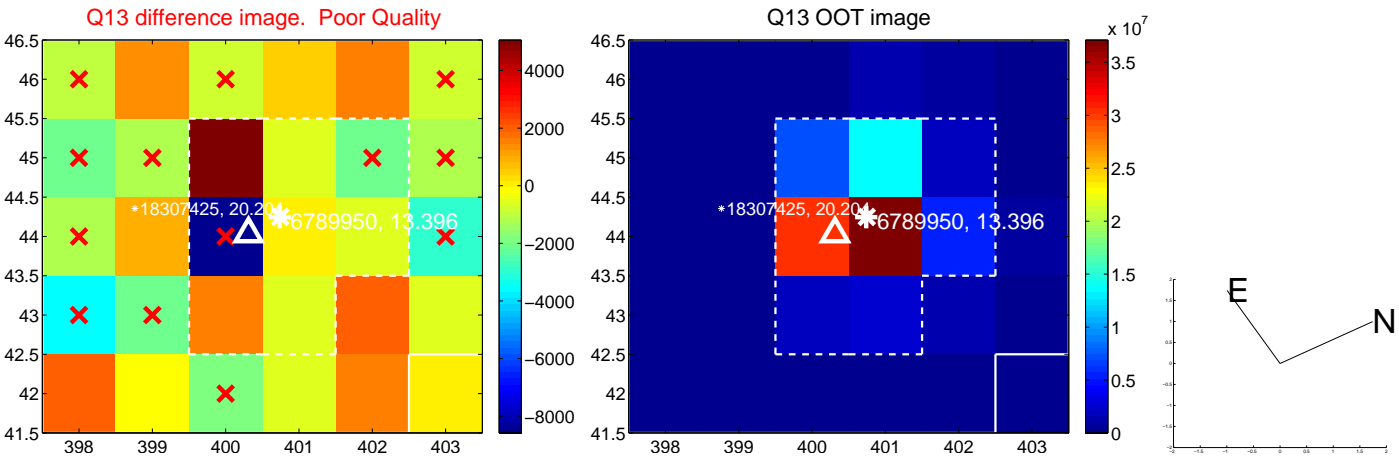
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



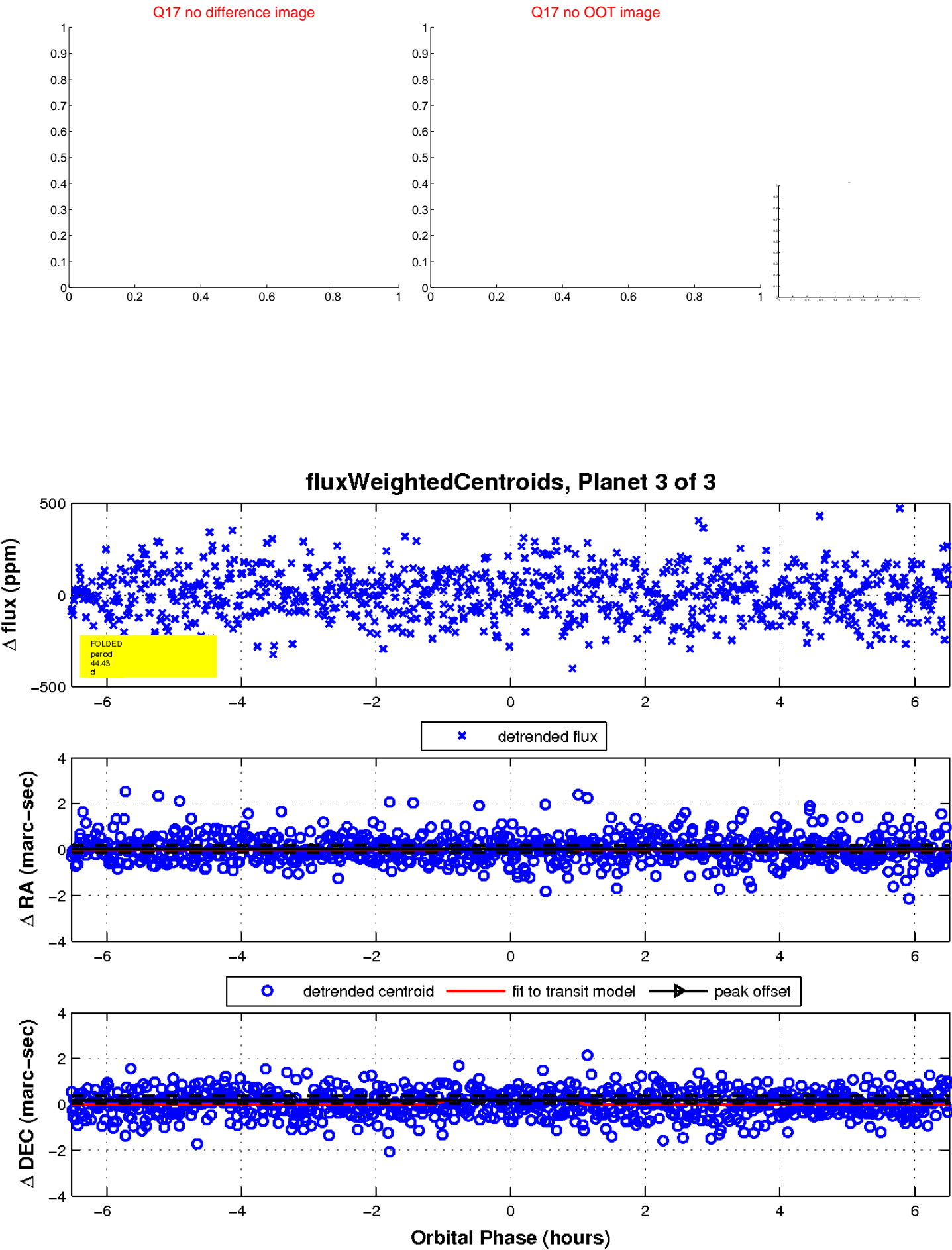
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

