

KIC 004755450

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})
004755450-01	OBS	No	0.507703	131.633551	21.0	3.720	7.9	9.1	1.05	6459	0.53	10550.18
004755450-02	OBS	No	19.815919	142.581805	991.3	1.250	17.0	16.5	1.05	6459	3.36	79.69
004755450-03	OBS	No	12.369838	138.856659	793.8	0.590	12.4	8.2	1.05	6459	3.26	149.37
004755450-04	OBS	No	7.125213	137.447743	721.4	0.957	12.4	14.5	1.05	6459	2.92	311.66
004755450-05	OBS	No	23.881304	131.829472	1382.3	0.701	11.7	15.3	1.05	6459	4.00	62.13
004755450-06	OBS	No	8.207509	137.955301	305.4	2.164	9.0	8.6	1.05	6459	1.85	258.10
004755450-07	OBS	No	7.947327	136.314372	477.7	1.843	11.3	10.3	1.05	6459	2.38	269.43
004755450-08	OBS	No	10.721633	139.666006	640.6	1.001	12.5	11.9	1.05	6459	2.87	180.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004755450-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS
004755450-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
004755450-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—CENT_FEW_DIFFS—HALO_GHOST
004755450-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

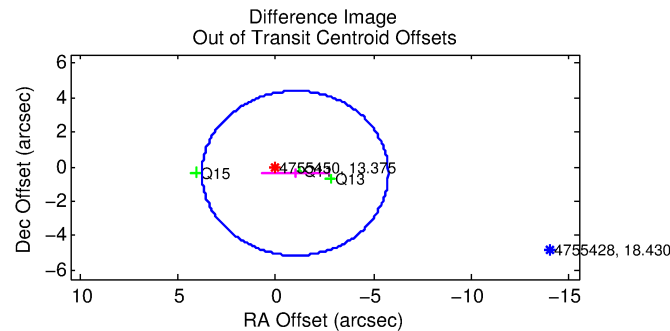
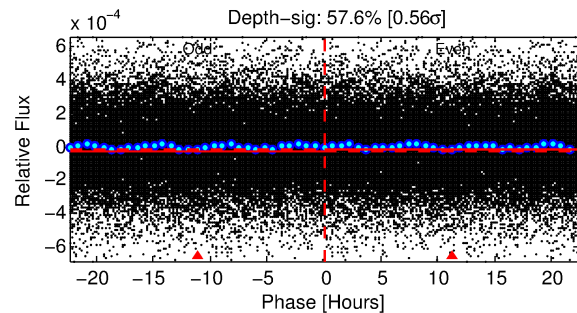
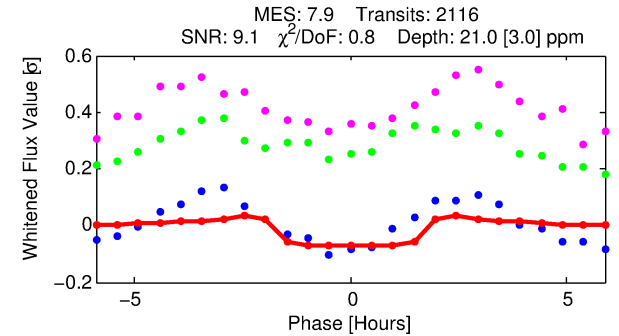
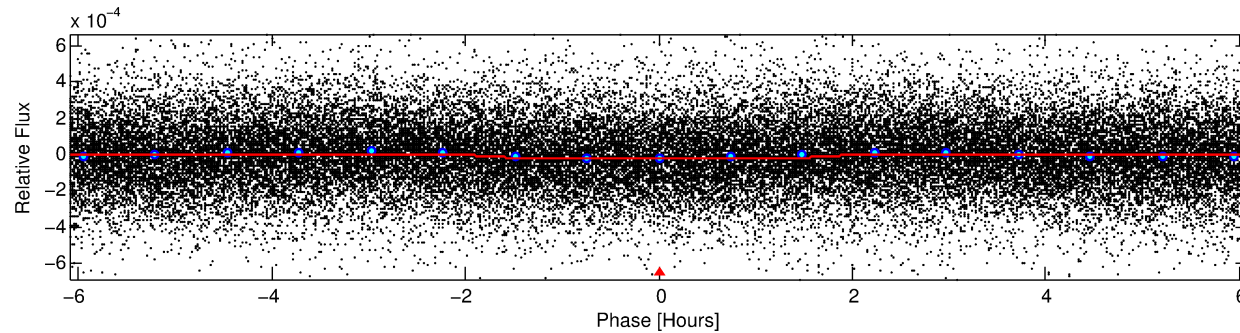
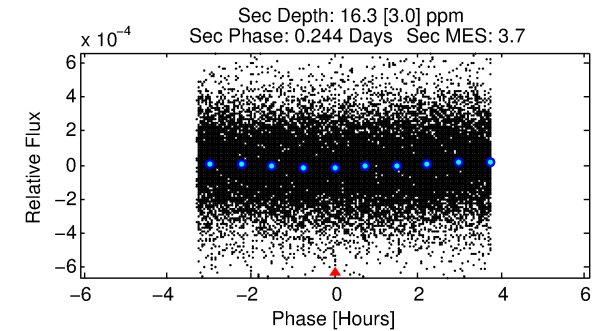
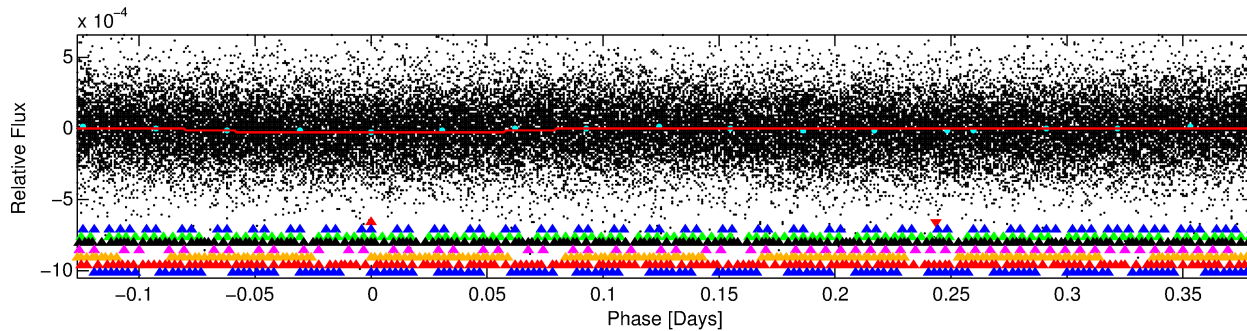
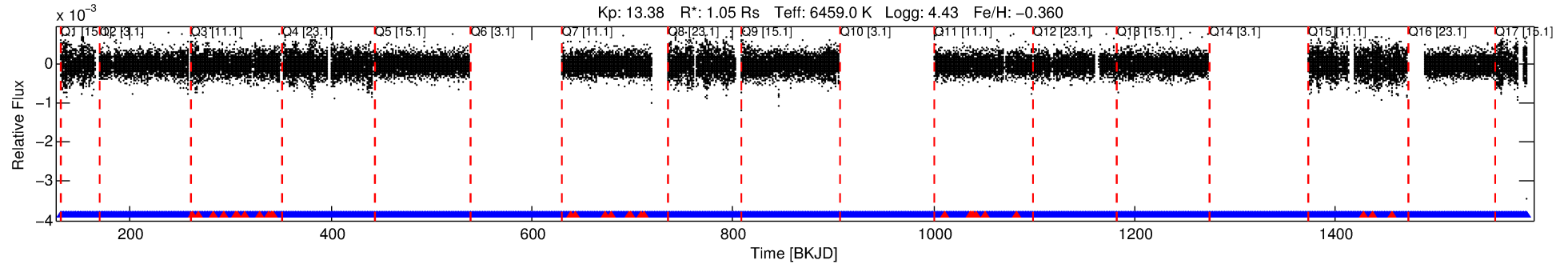
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004755450-01

No Significant Match Found

DV One-Page Summary

KIC: 4755450 Candidate: 1 of 8 Period: 0.508 d



DV Fit Results:

Period = 0.50770 [0.00001] d
Epoch = 131.6336 [0.0030] BKJD
Rp/R* = 0.0046 [0.0031]
a/R* = 1.10 [0.73]
b = 0.77 [2.02]
Seff = 10550.18 [4384.04]
Teq = 2584 [268] K
Rp = 0.53 [0.39] Re
a = 0.0128 [0.0034] AU
Ag = 5.28 [7.52] [0.57σ]
Teffp = 6056 [2091] K [1.65σ]

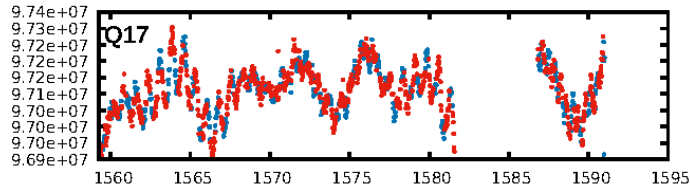
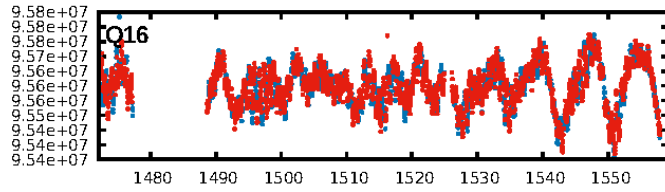
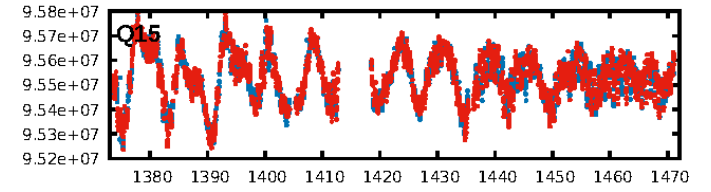
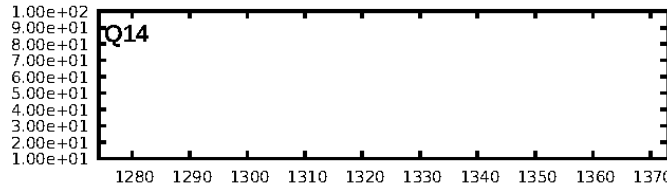
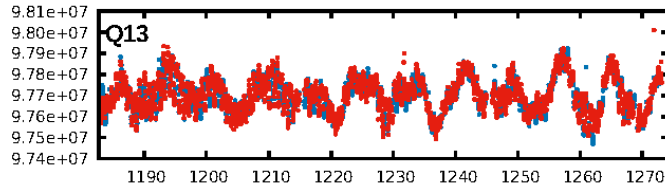
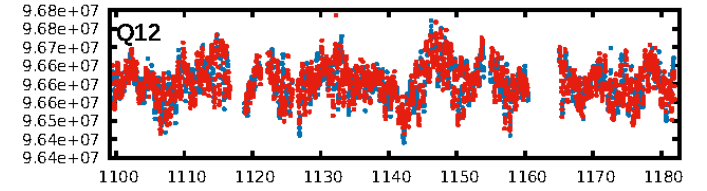
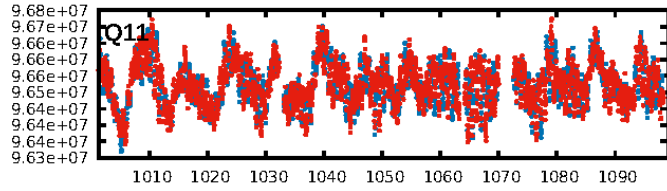
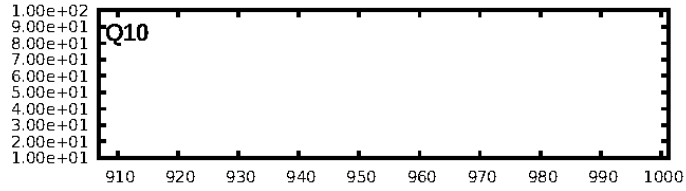
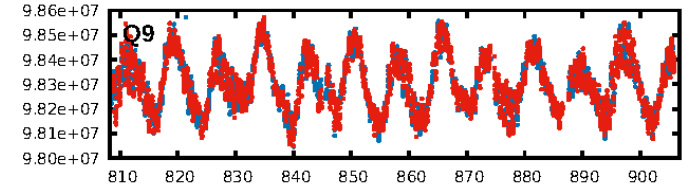
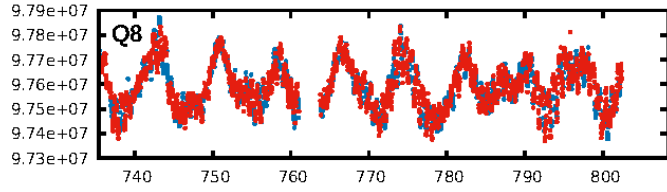
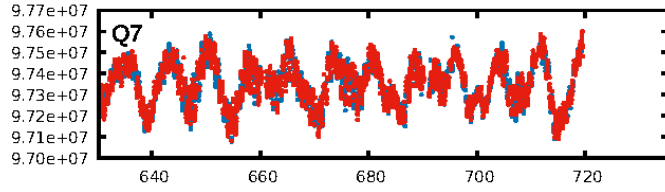
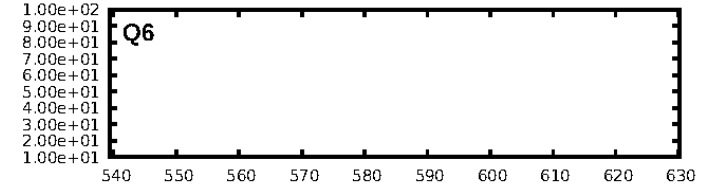
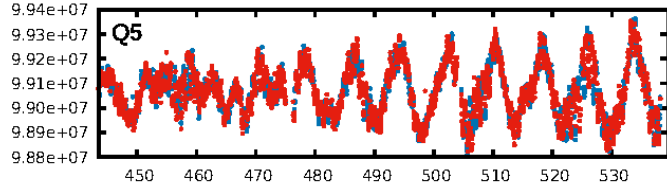
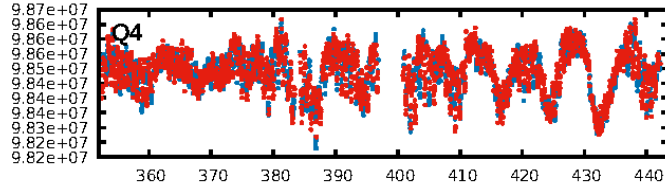
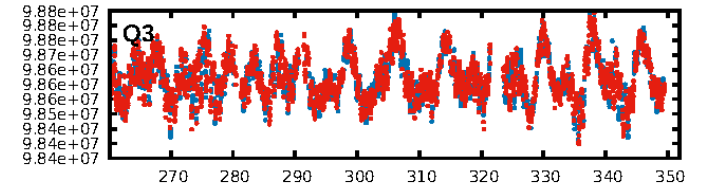
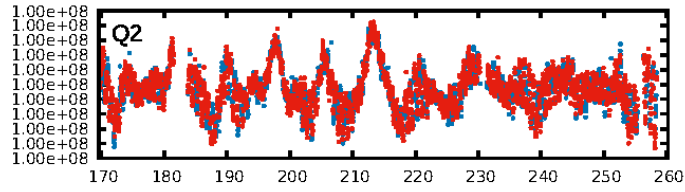
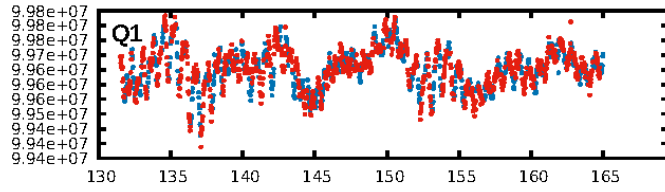
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [41.35σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.66e-09
RollingBand-fgt: 0.98 [1964/1997]
GhostDiagnostic-chr: -72.56
Centroid-sig: 0.0%
Centroid-so: 2.891 arcsec [3.53σ]
OotOffset-rm: 1.065 arcsec [0.67σ]
KicOffset-rm: 1.120 arcsec [0.67σ]
OotOffset-st: 0/2/0/1 [3]
KicOffset-st: 0/2/0/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [14/14]

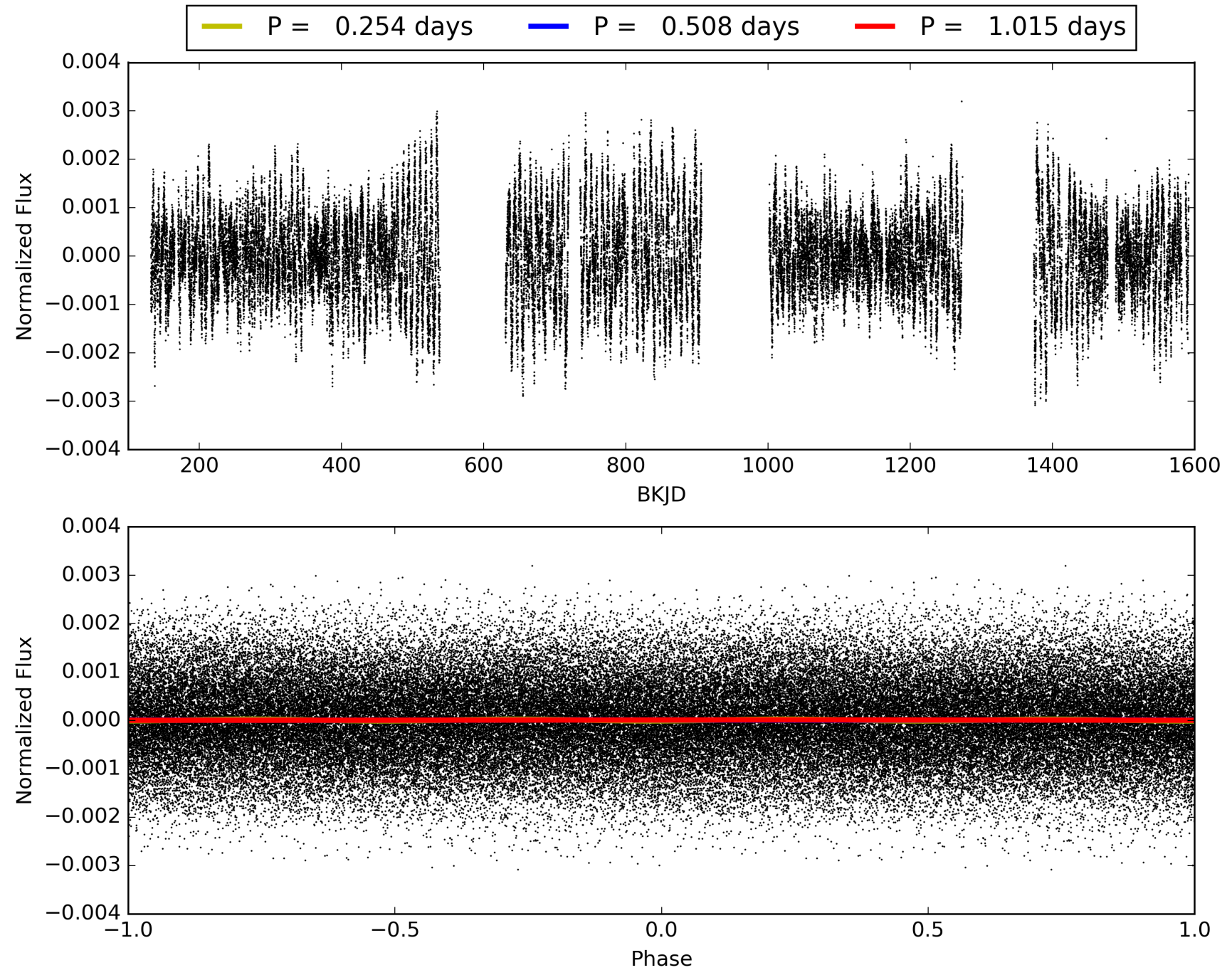
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 05:14:27 Z

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

TCE 004755450-01, PDC Light Curves

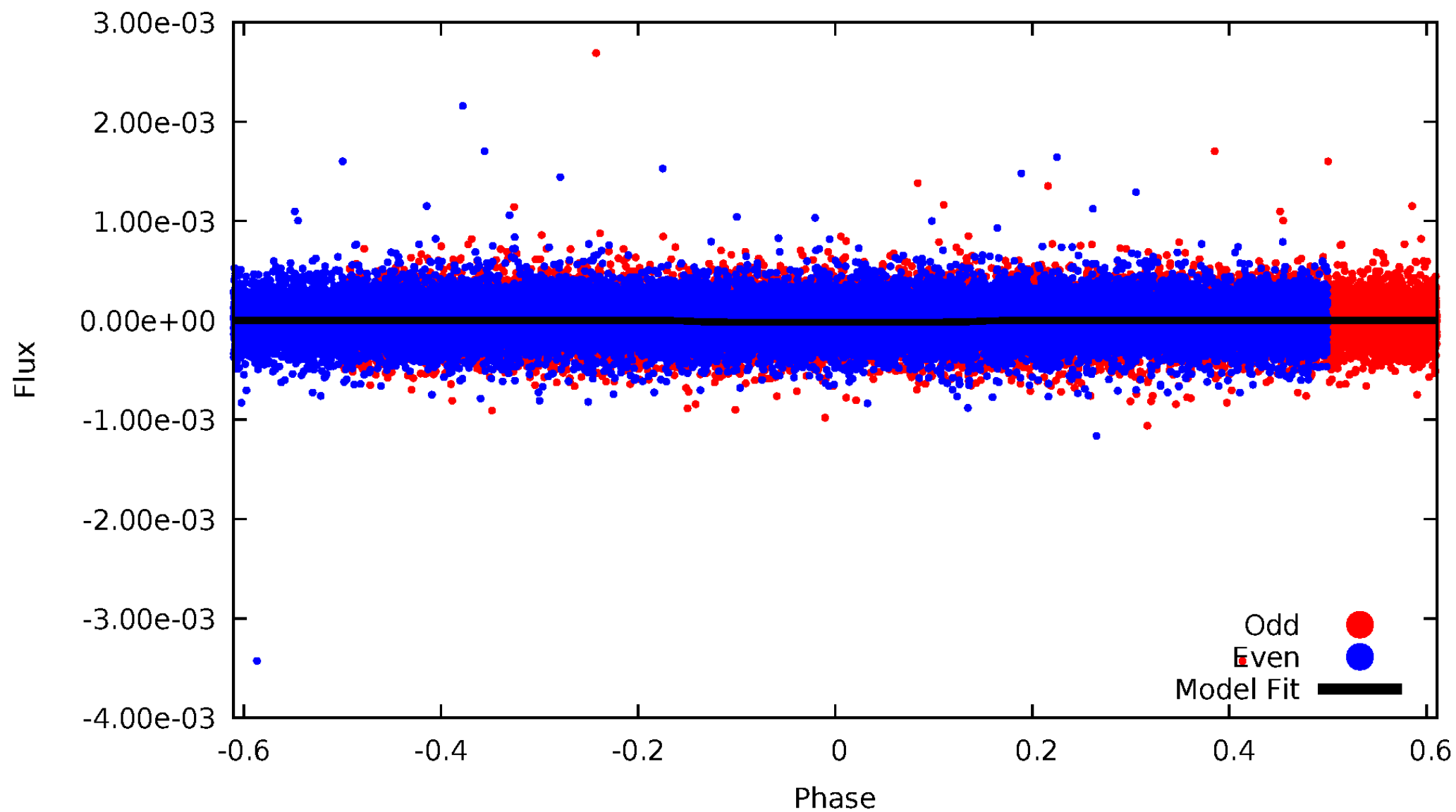


TCE 004755450-01



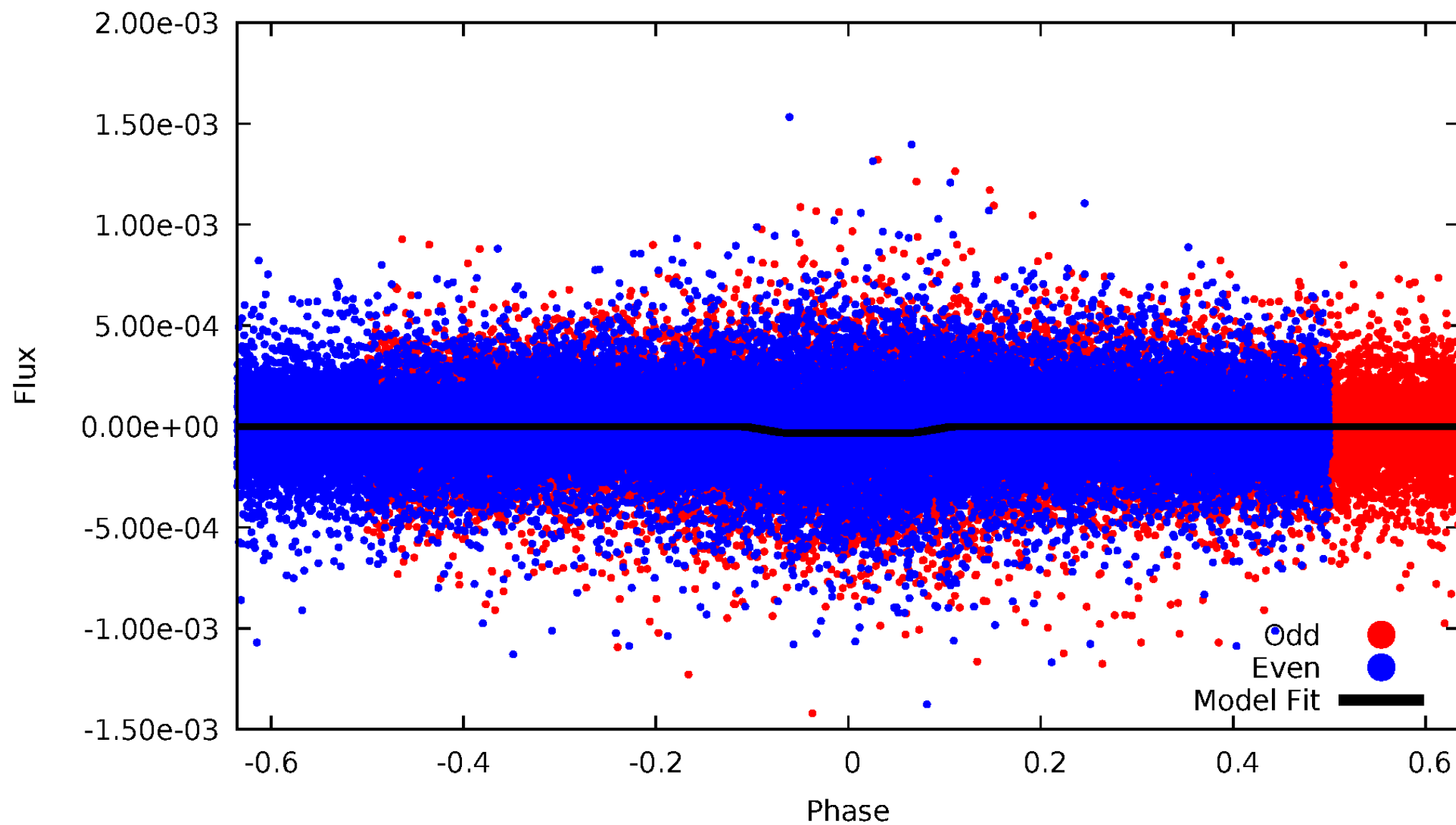
DV Odd/Even

TCE 004755450-01

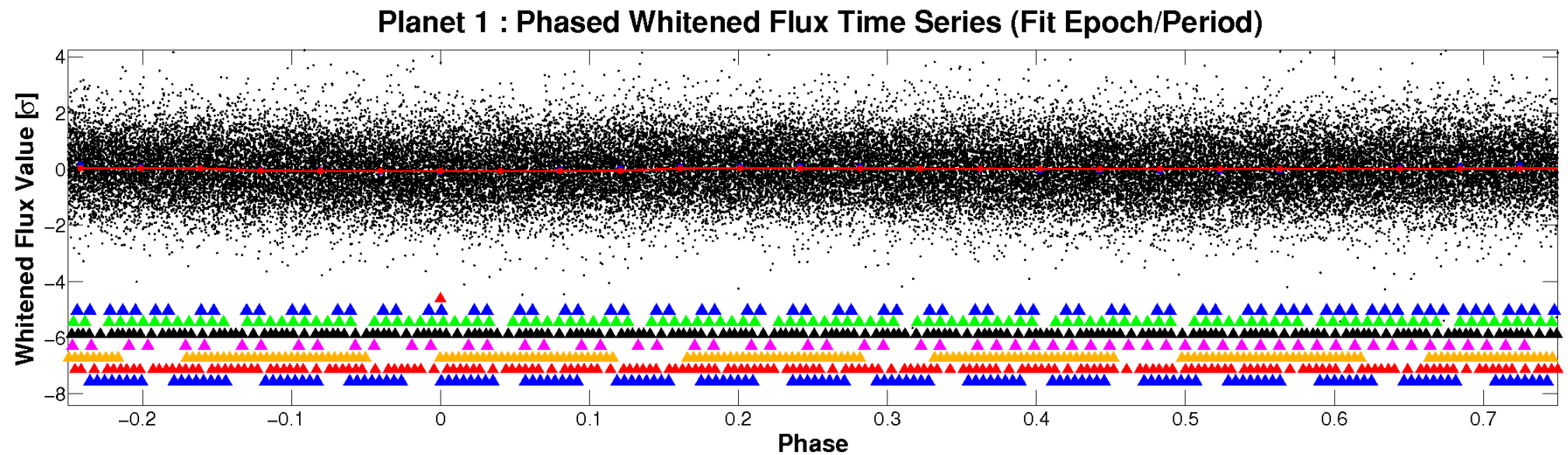
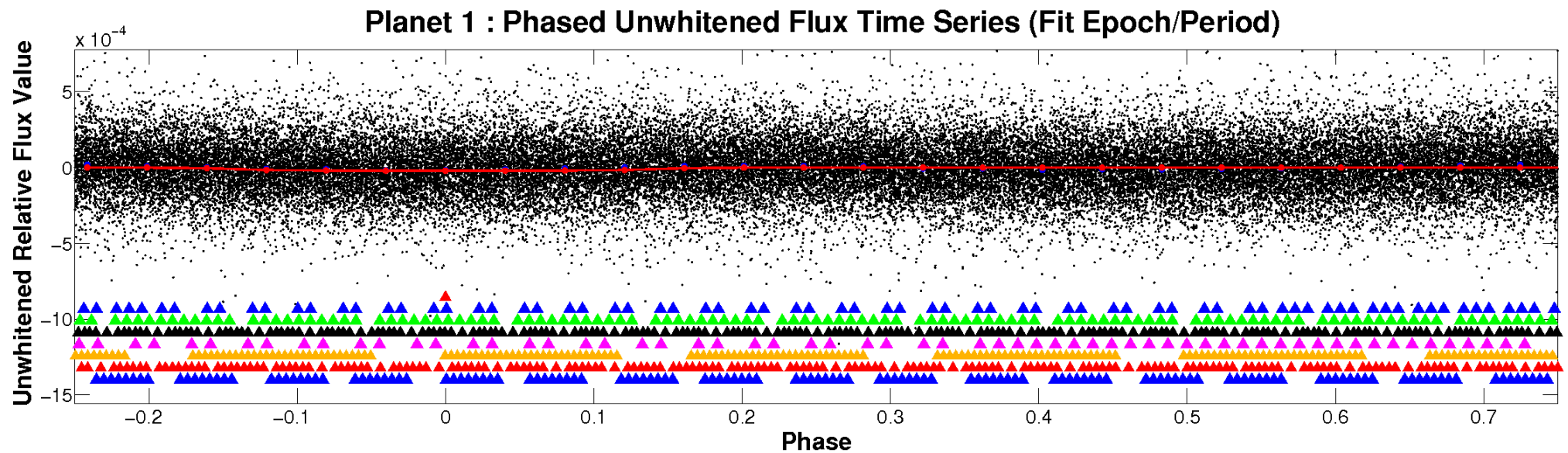


ALT Odd/Even

TCE 004755450-01

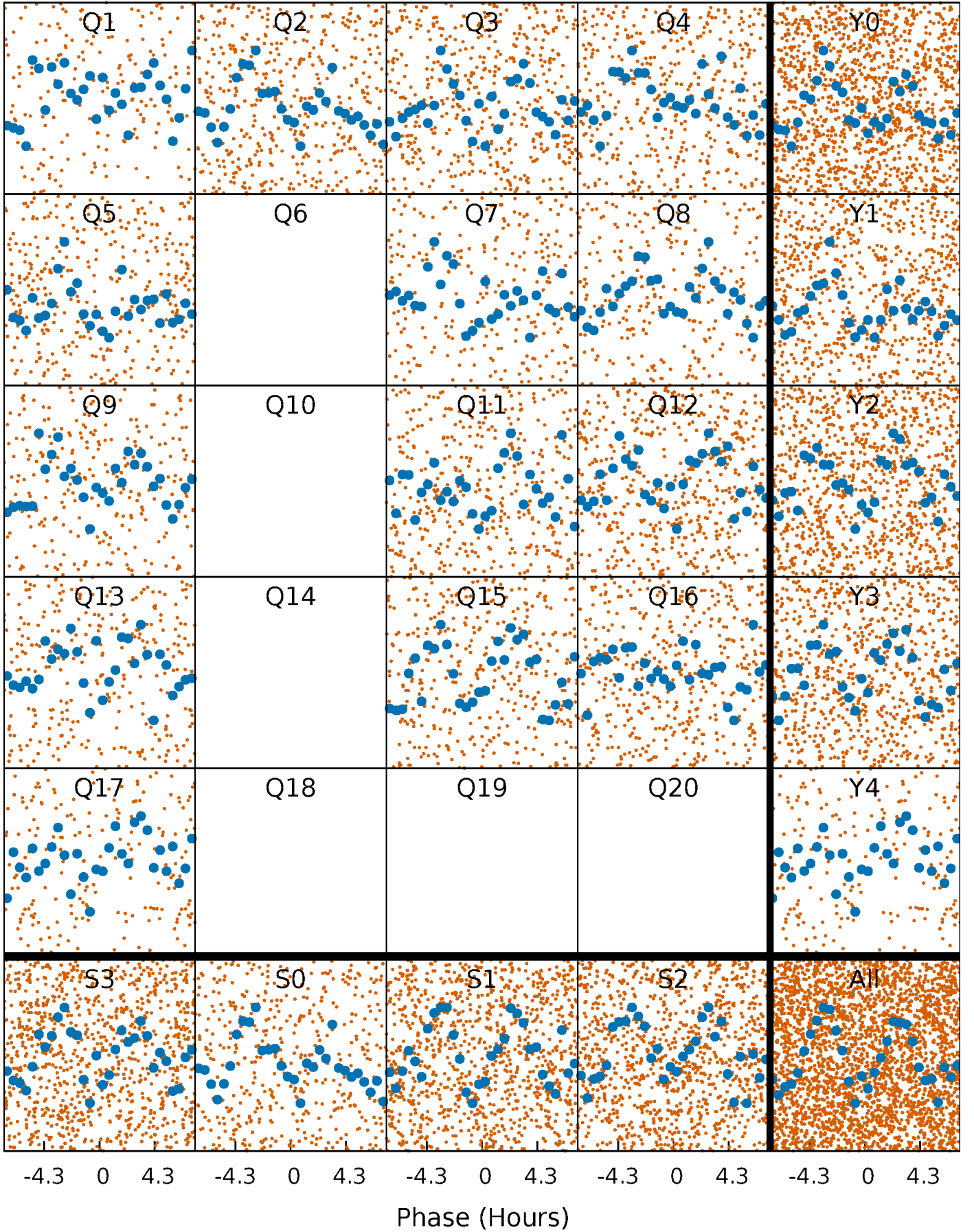


Non-Whitened Vs. Whitened Light Curve



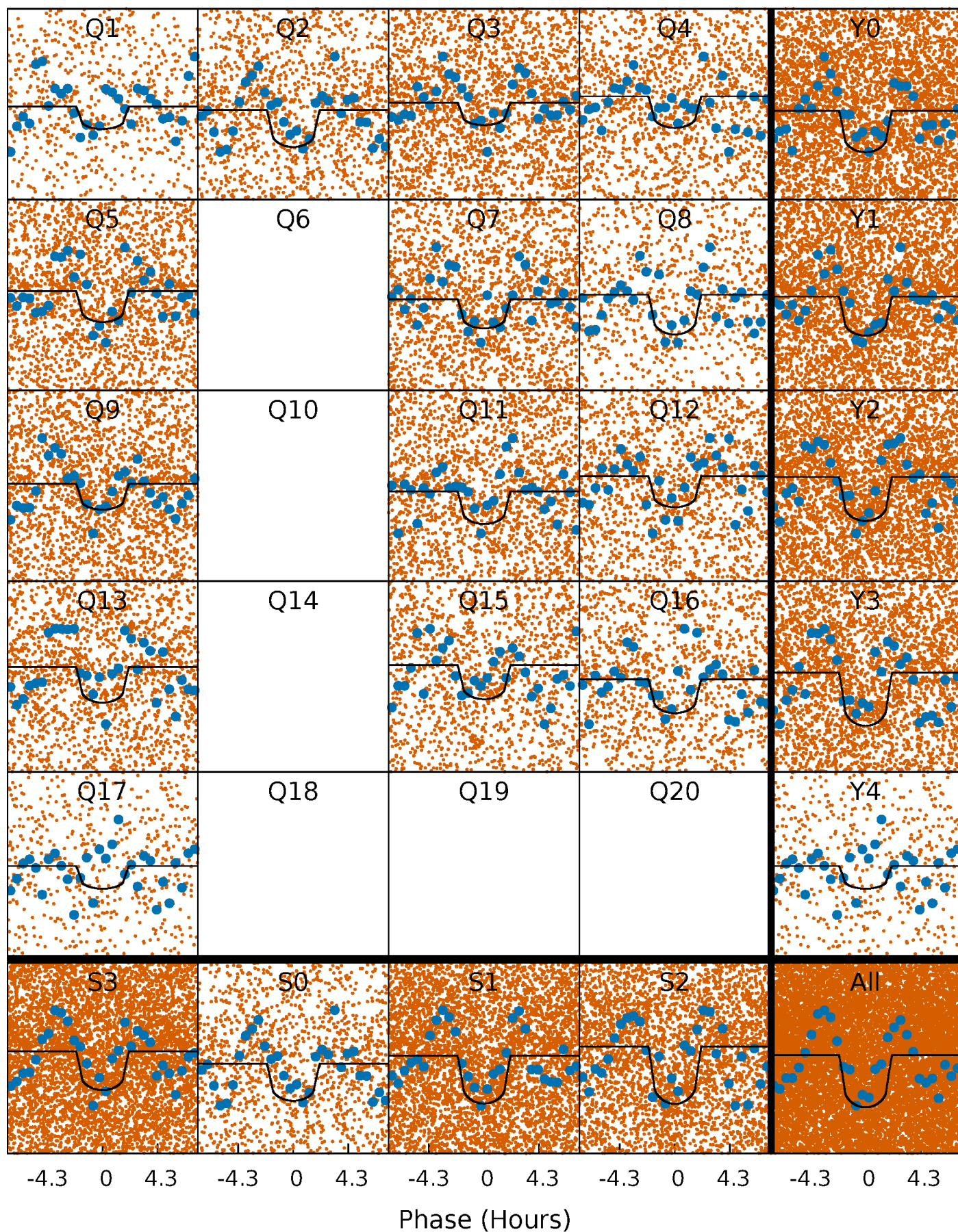
PDC Quarter-Phased Transit Curves

TCE 004755450-01 P= 0.507703 Days $T_0=131.633551$ (BKJD)



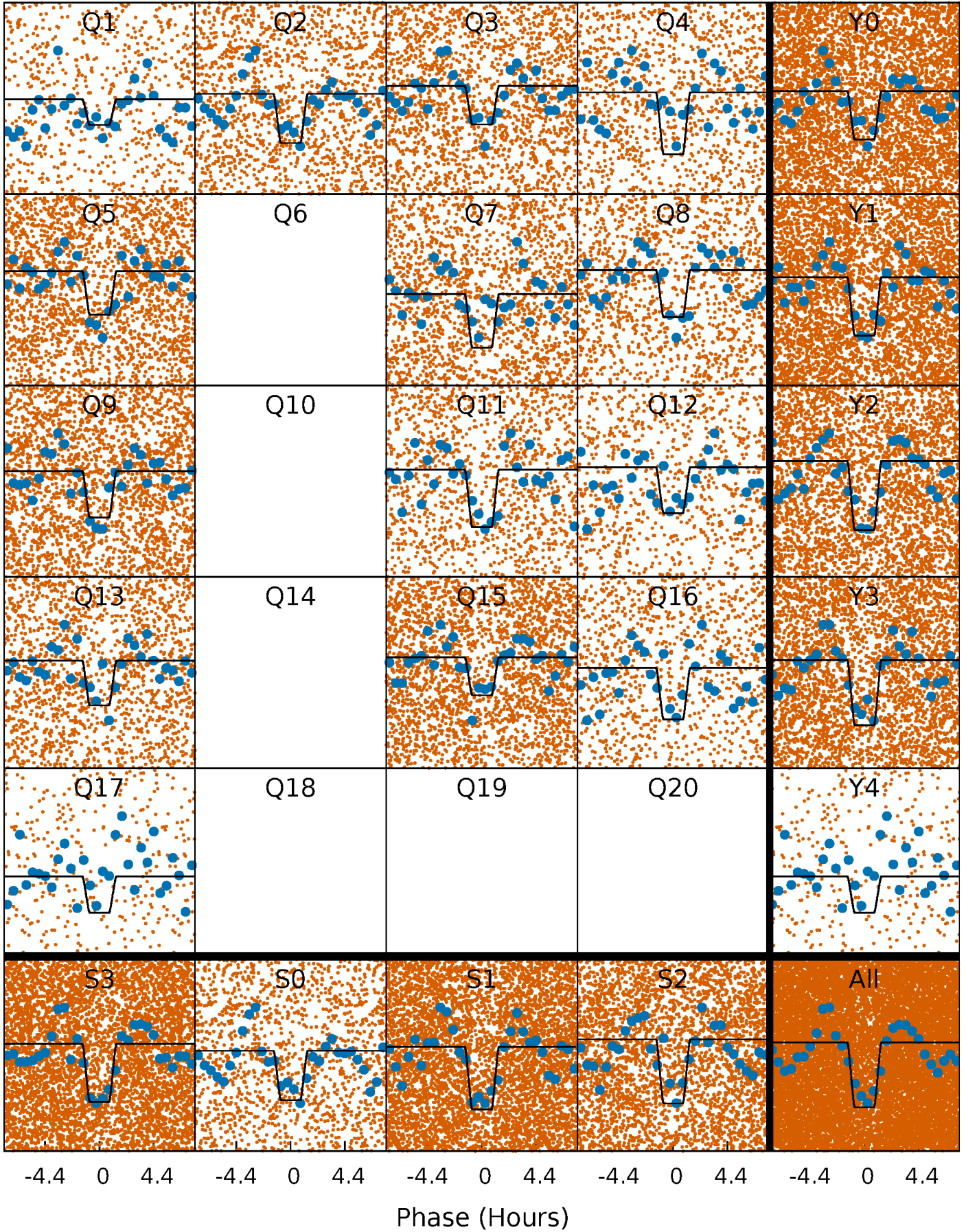
DV Quarter-Phased Transit Curves

TCE 004755450-01 P= 0.507703 Days $T_0=131.633551$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

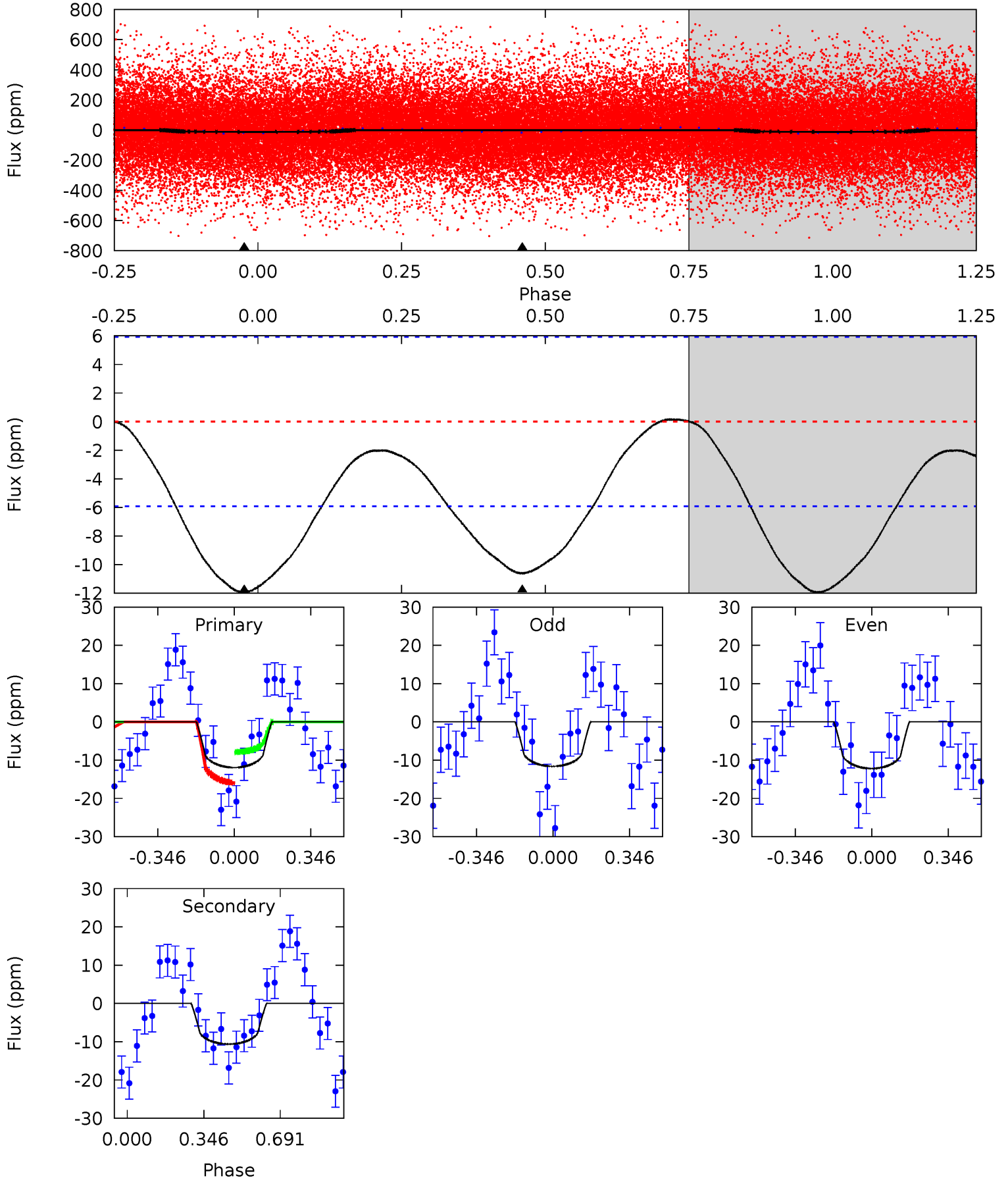
TCE 004755450-01 P= 0.507688 Days $T_0=131.642500$ (BKJD)



DV Model-Shift Uniqueness Test

004755450-01, P = 0.507703 Days, E = 131.125848 Days

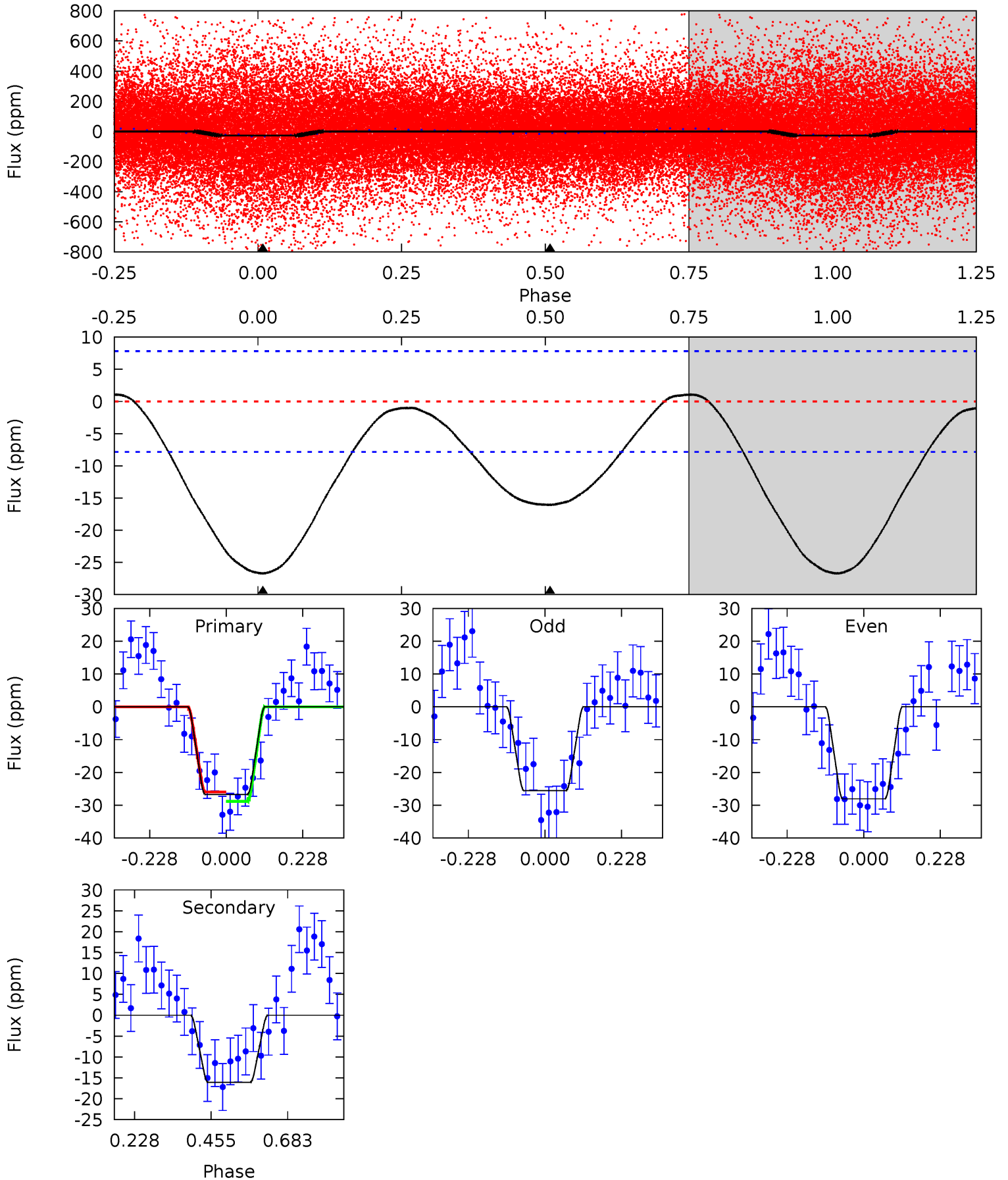
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.67	7.71	0	0	4.30	0.94	0.72	8.67	8.67	7.71	7.71	0.21	0.95	0.01	2.93



Alt Model-Shift Uniqueness Test

004755450-01, P = 0.507688 Days, E = 131.134812 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.0	9.01	0	0	4.39	1.21	0.56	15.0	15.0	9.01	9.01	0.71	0.91	0.04	0.80



Stellar Parameters For KIC 004755450

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6459^{+181}_{-250}	$4.427^{+0.070}_{-0.210}$	$-0.360^{+0.250}_{-0.350}$	$1.049^{+0.333}_{-0.133}$	$1.071^{+0.161}_{-0.146}$	$1.306^{+0.385}_{-0.710}$
	+3%/-4%	+2%/-5%	+69%/-97%	+32%/-13%	+15%/-14%	+29%/-54%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 004755450-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-11 ± 1	$0.60^{+0.38}_{-0.34}$	3694^{+282}_{-204}	5160^{+3025}_{-1116}	$2.582^{+11.815}_{-1.584}$
Alt.	-16 ± 2	$0.71^{+0.37}_{-0.39}$	3668^{+243}_{-201}	5188^{+2492}_{-969}	$2.806^{+9.082}_{-1.629}$

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

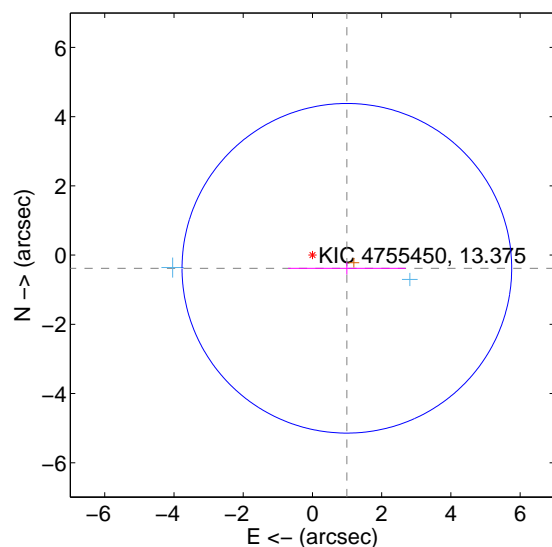
Supplemental centroid analysis for 004755450-01. Kepler magnitude: 13.38. Transit SNR 9.14

There are 2 quarters with good PRF difference image offsets

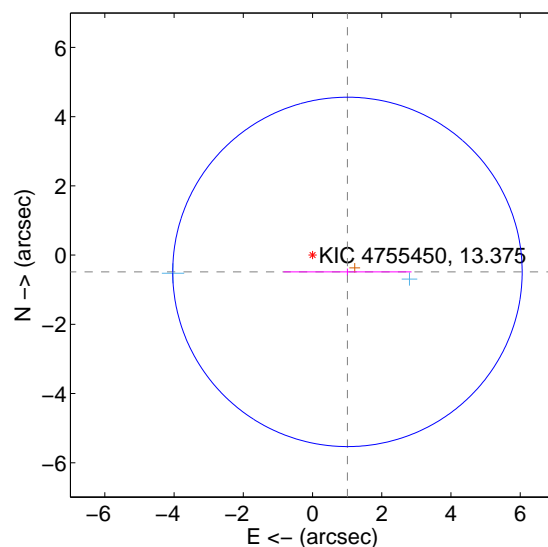
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.065 ± 1.587	0.67	-0.994 ± 1.699	-0.381 ± 0.177
PRF-fit source offset from KIC position	1.120 ± 1.682	0.67	-1.009 ± 1.852	-0.485 ± 0.098
photometric centroid source offset	2.89 ± 0.82	3.53	-2.16 ± 0.82	1.92 ± 0.82

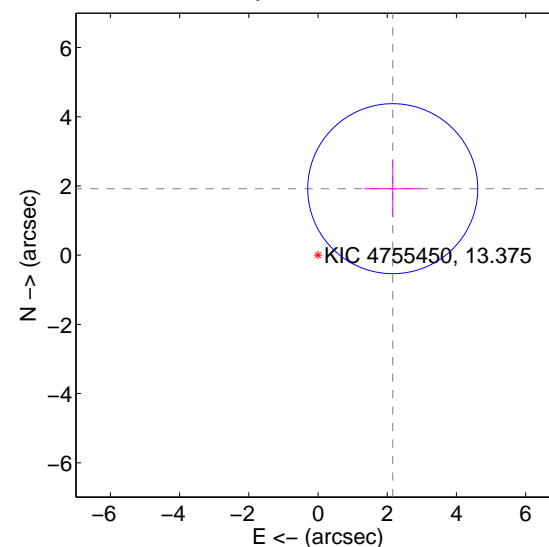
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

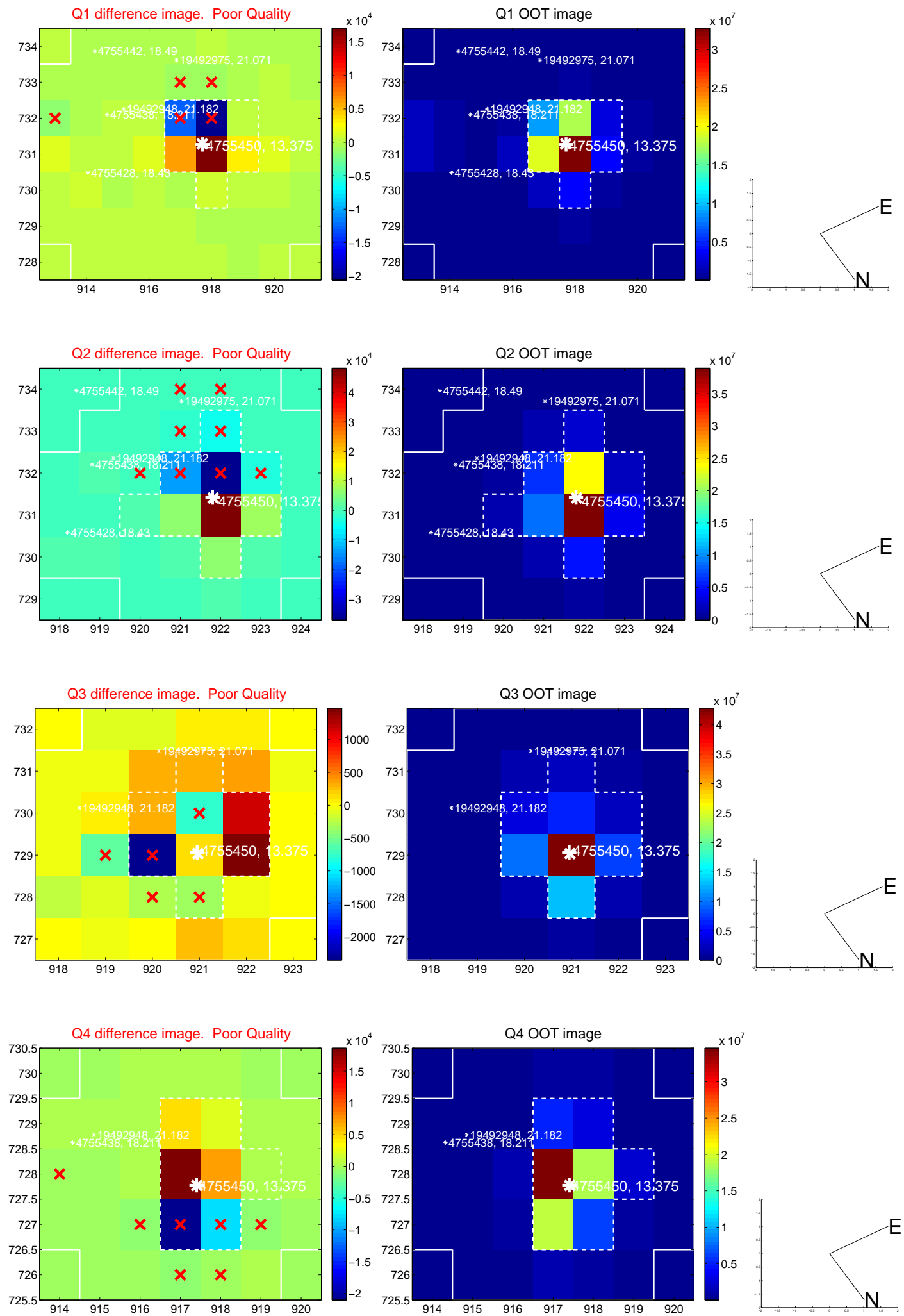


offset from photometric centroids

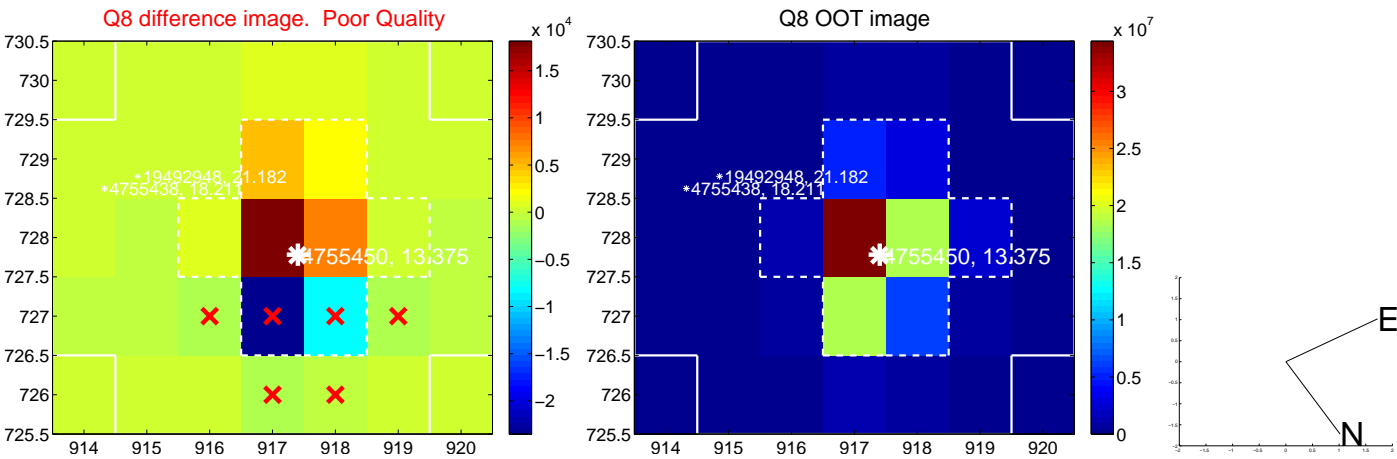
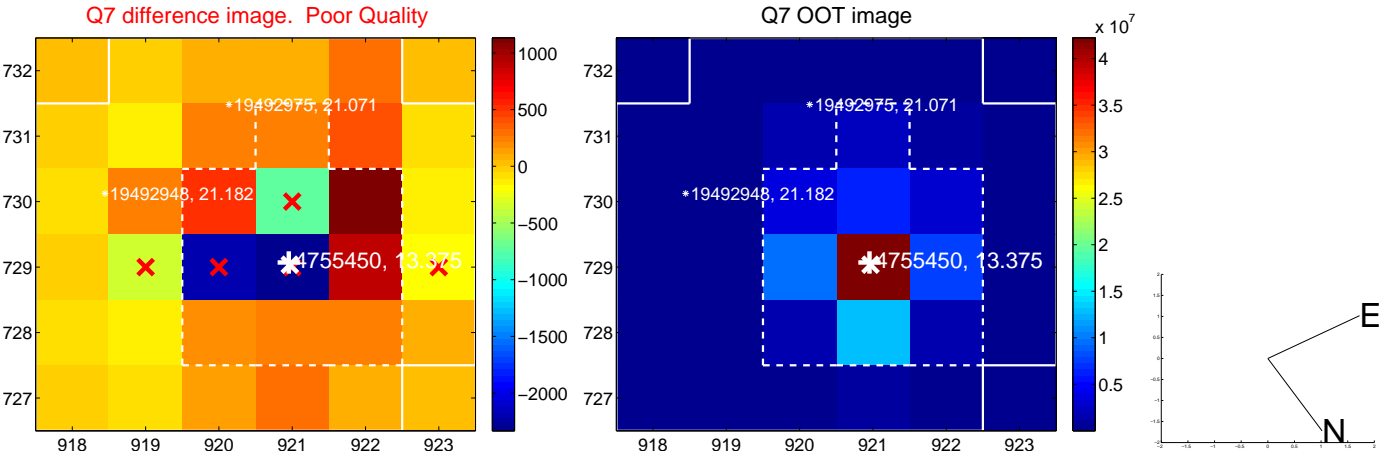
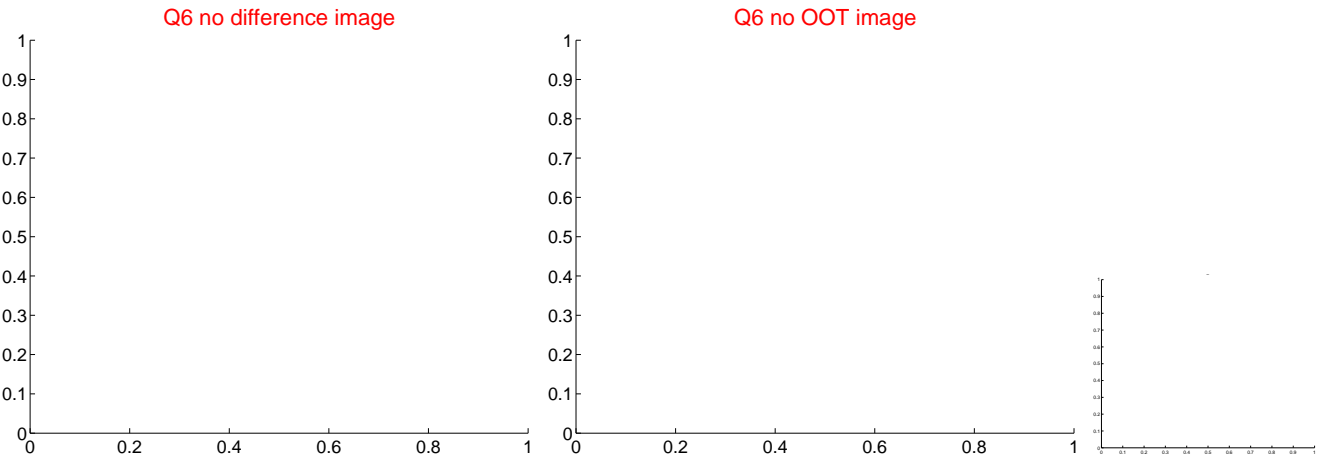
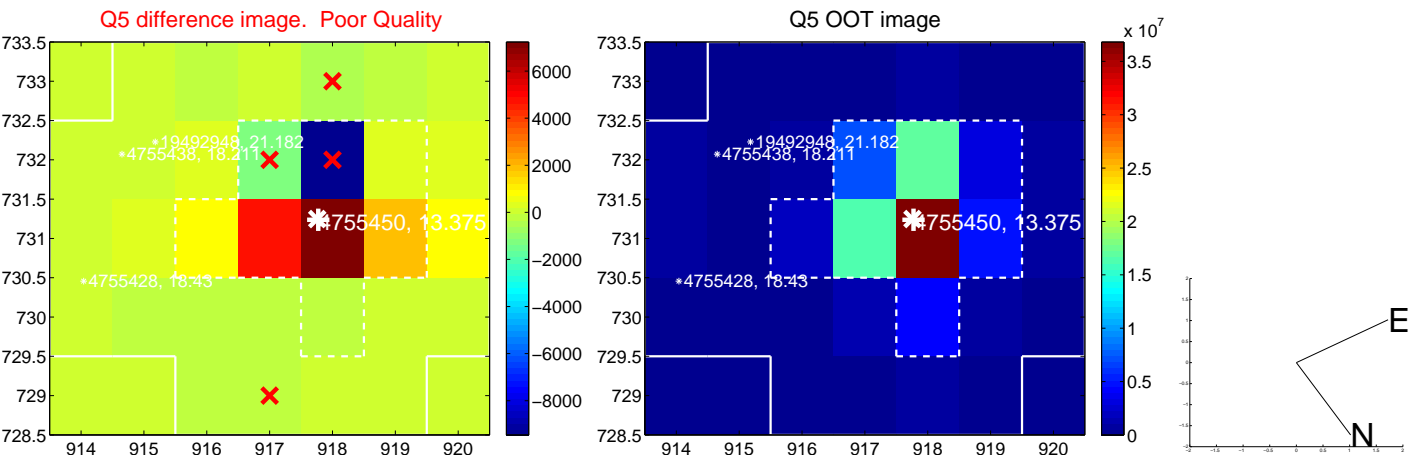


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

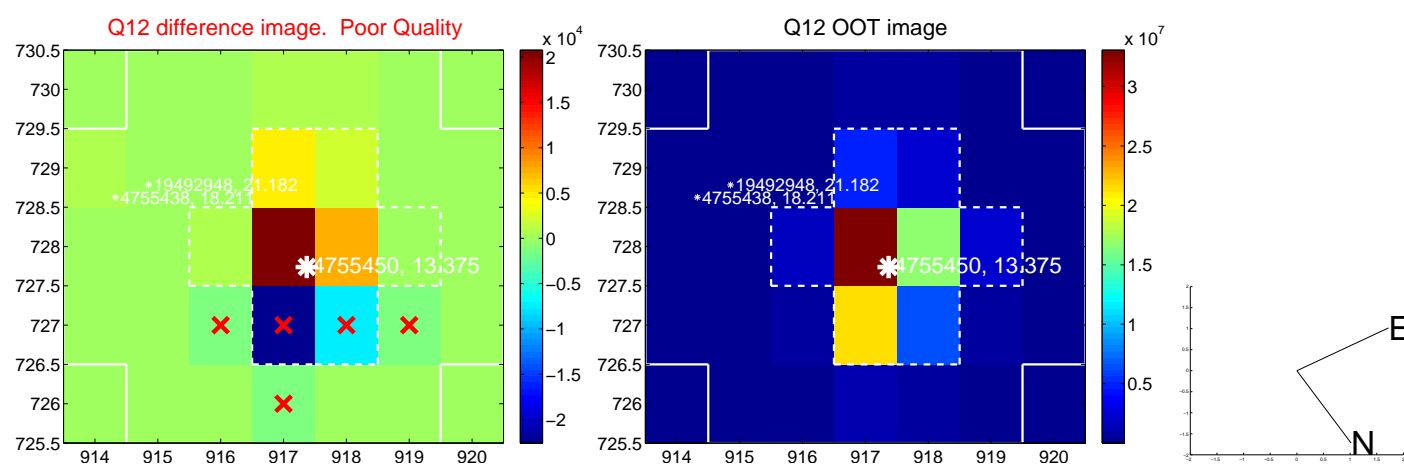
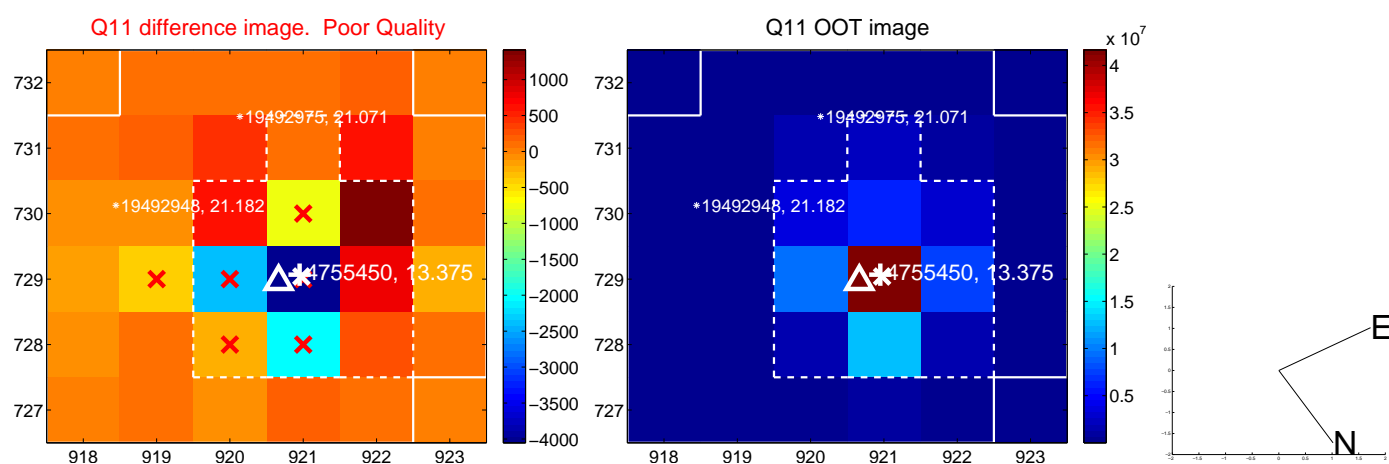
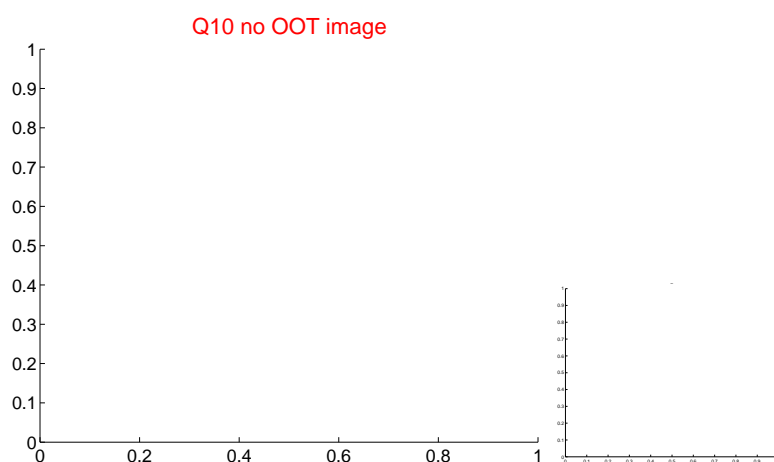
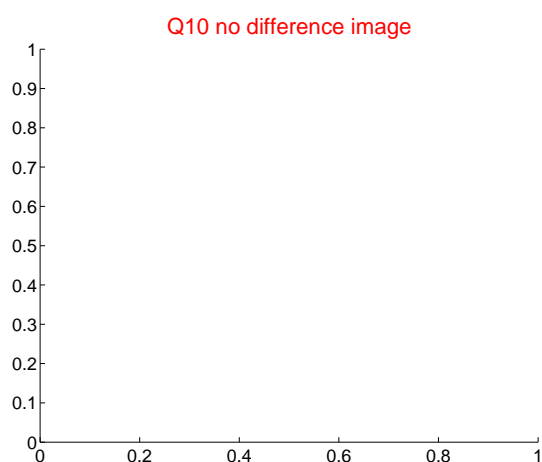
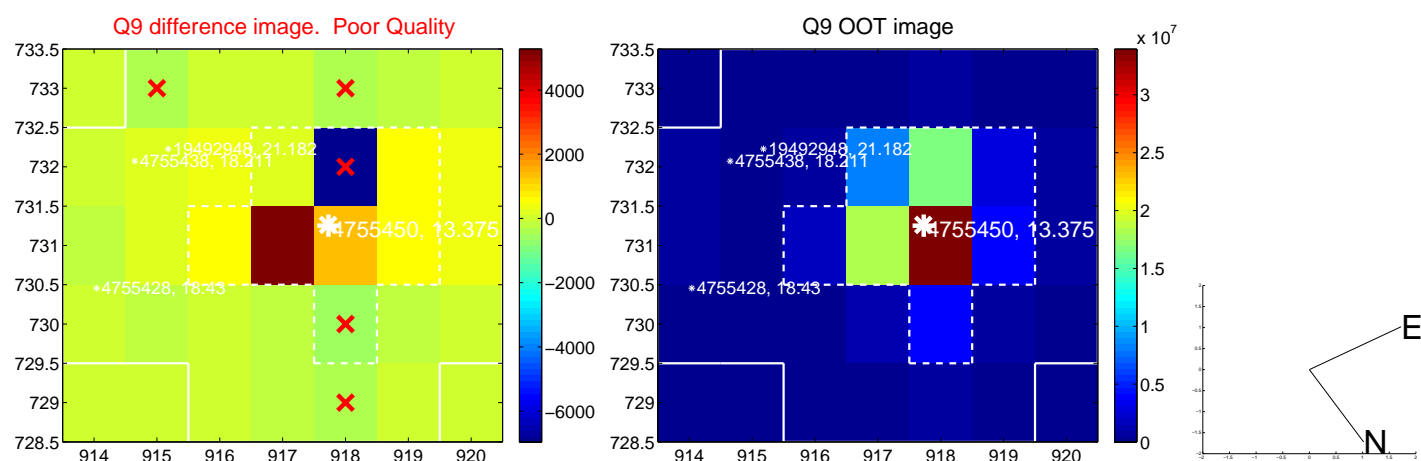
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



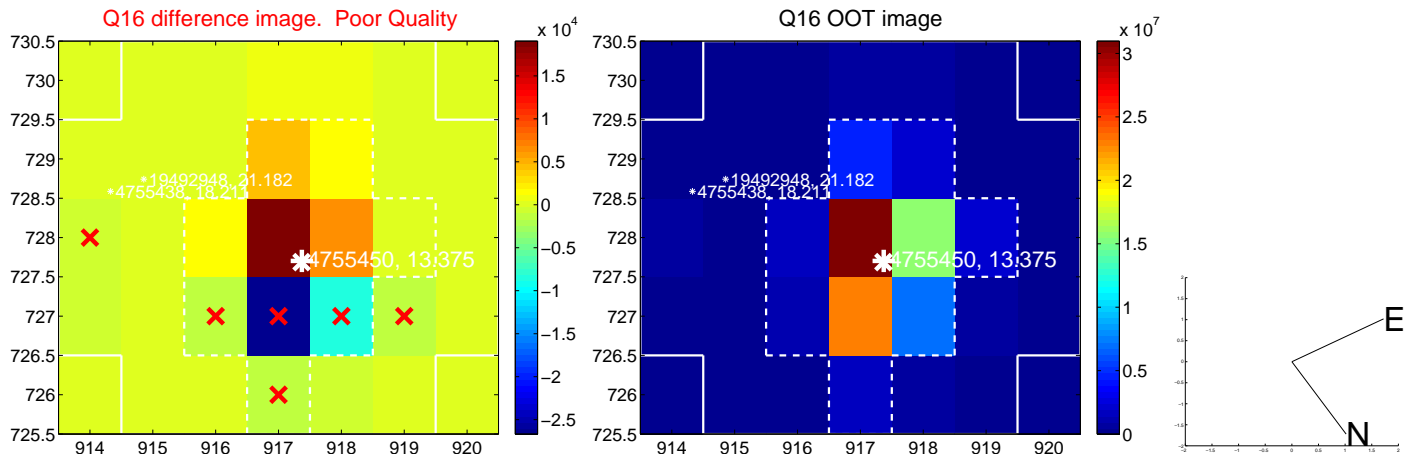
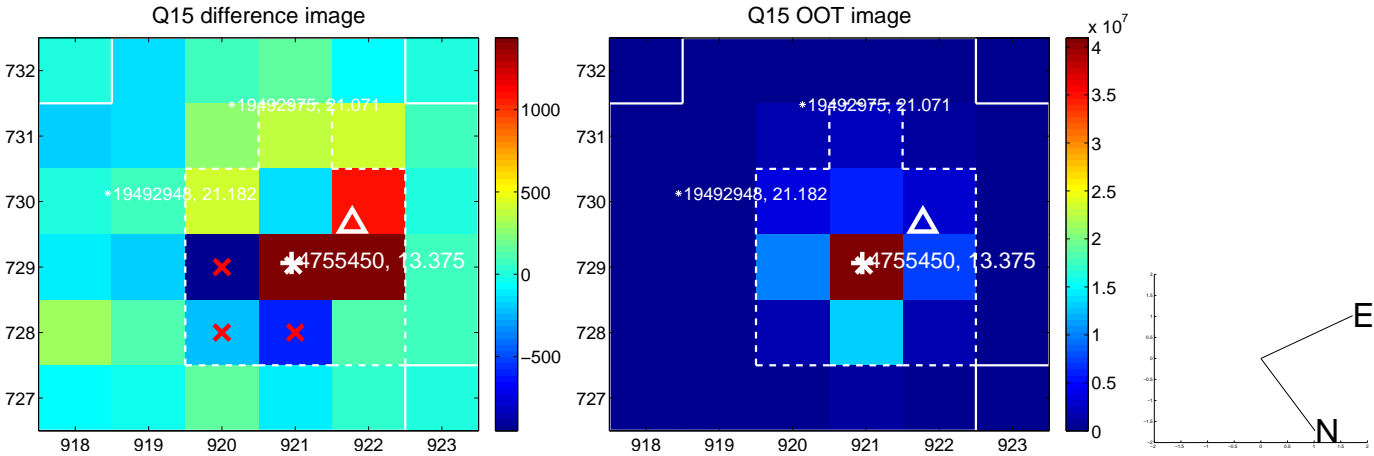
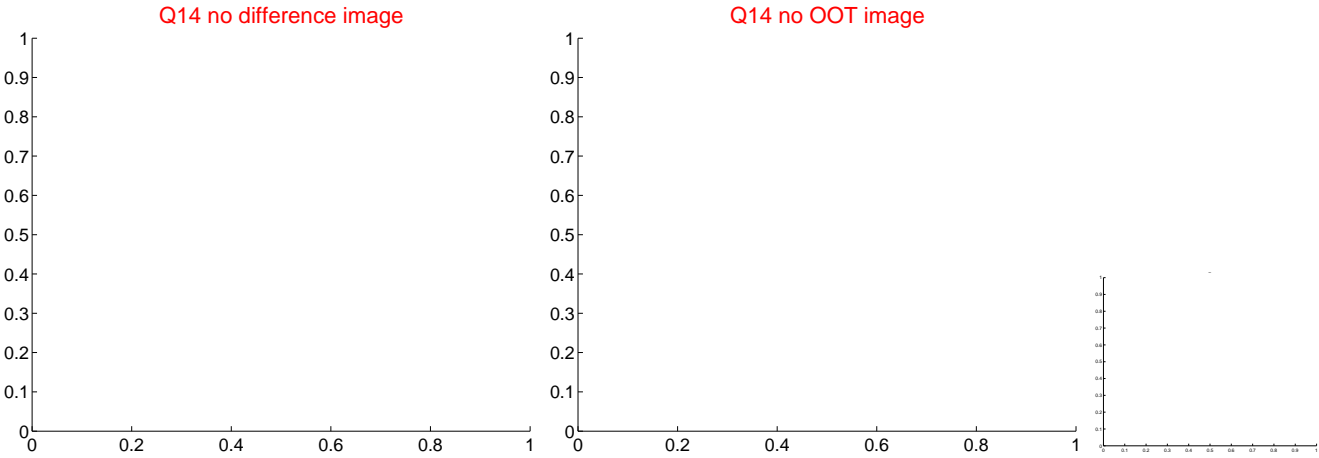
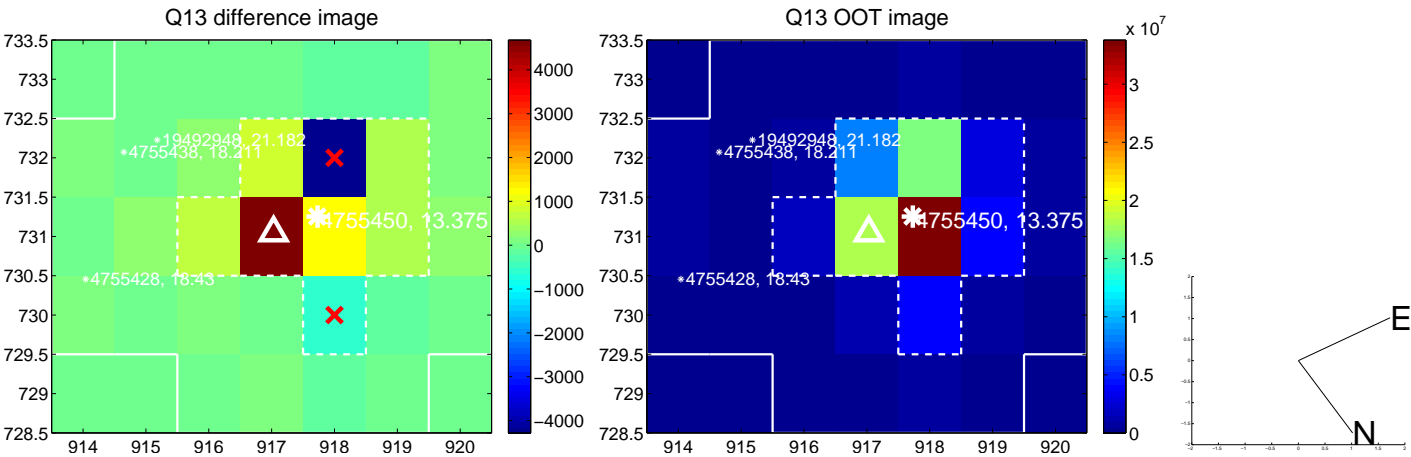
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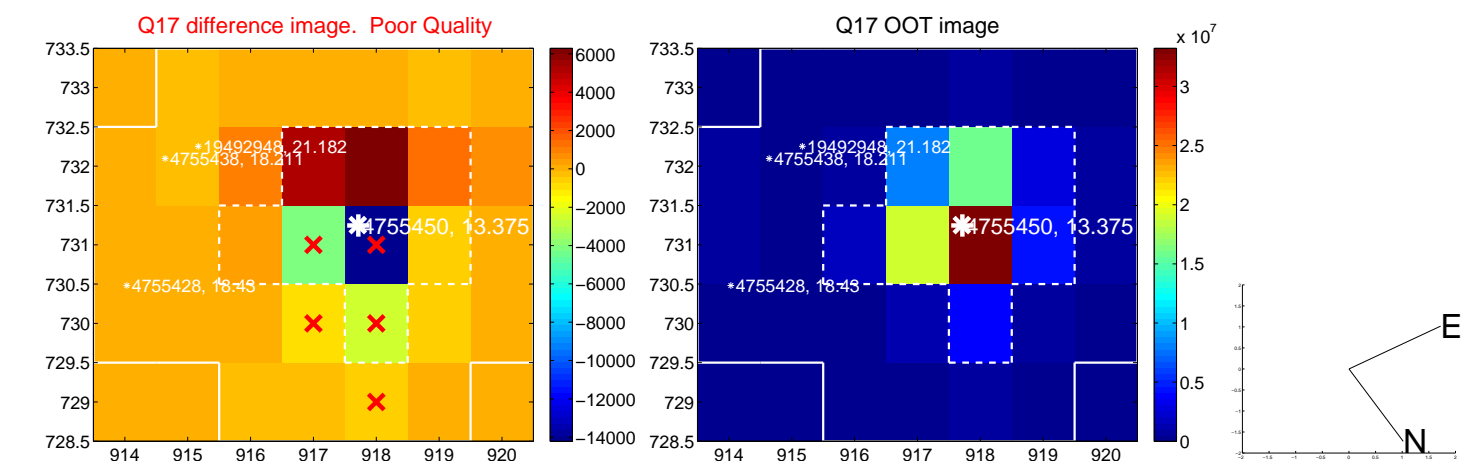
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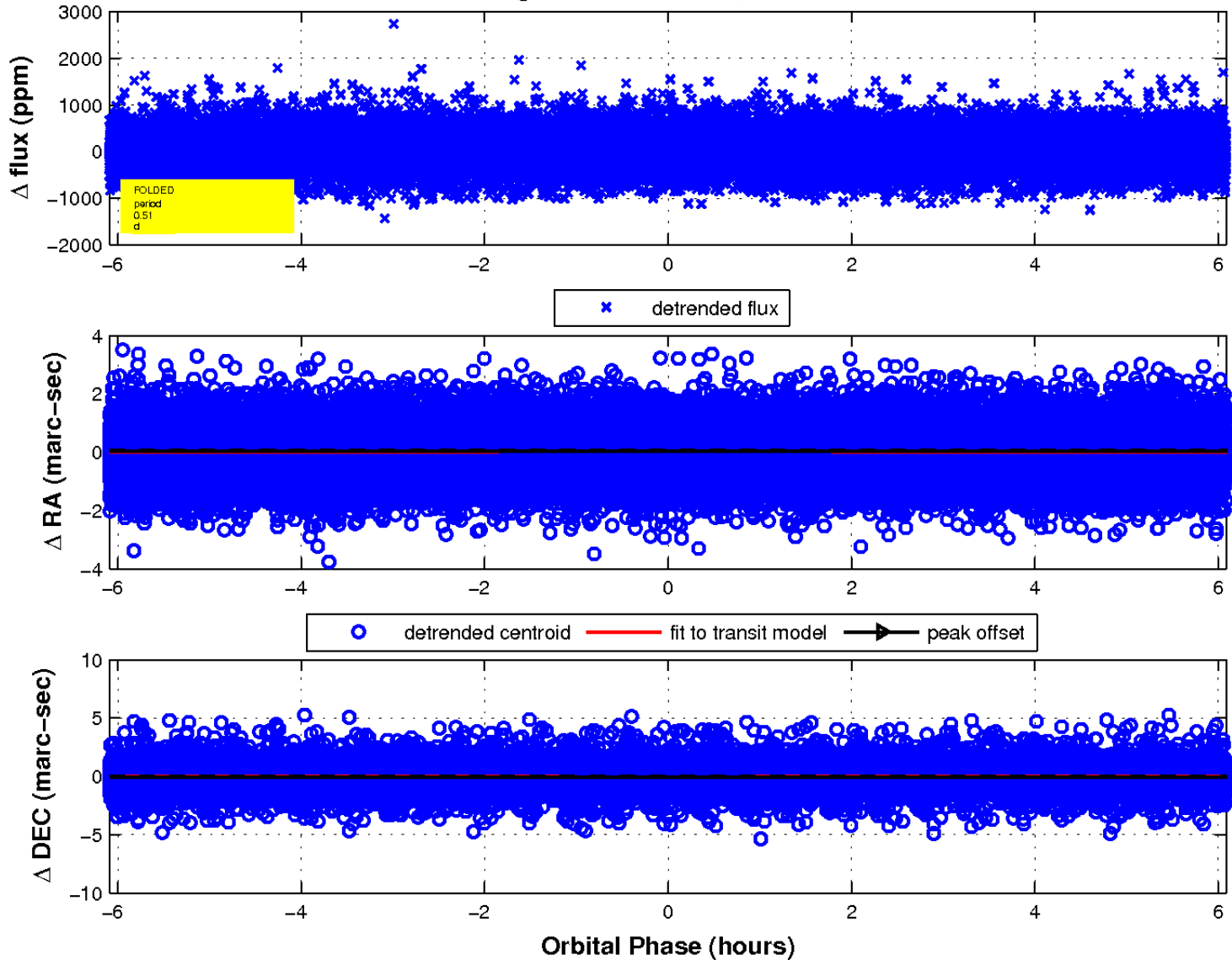
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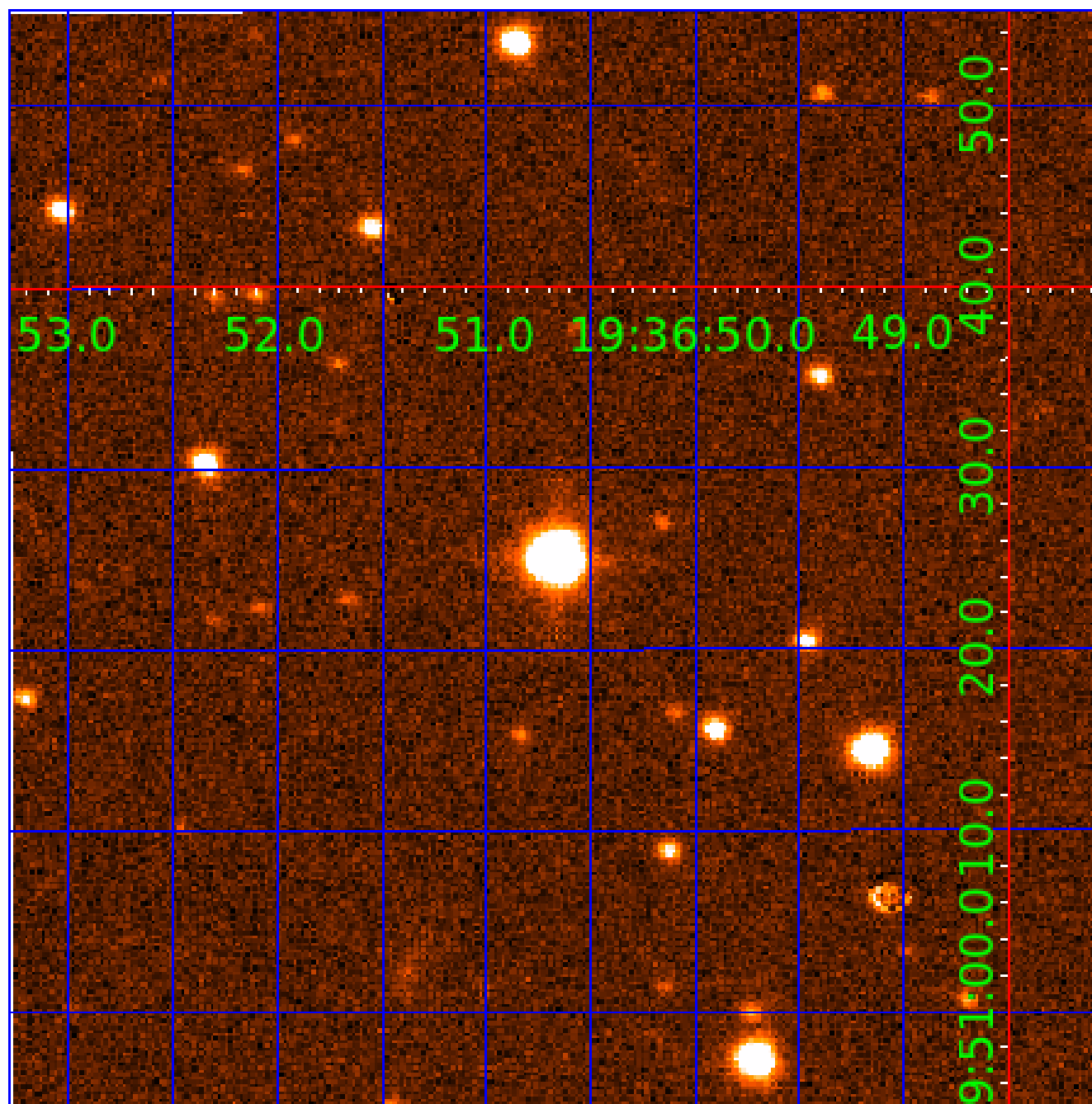


fluxWeightedCentroids, Planet 1 of 8



UKIRT Image

Declination



KIC 004755450

Q1-17 DR25 TCE Parameters

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TCE	Run Type	Disp	Score	N	S	C	E	Comments
004755450-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS
004755450-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
004755450-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—CENT_FEW_DIFFS—HALO_GHOST
004755450-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

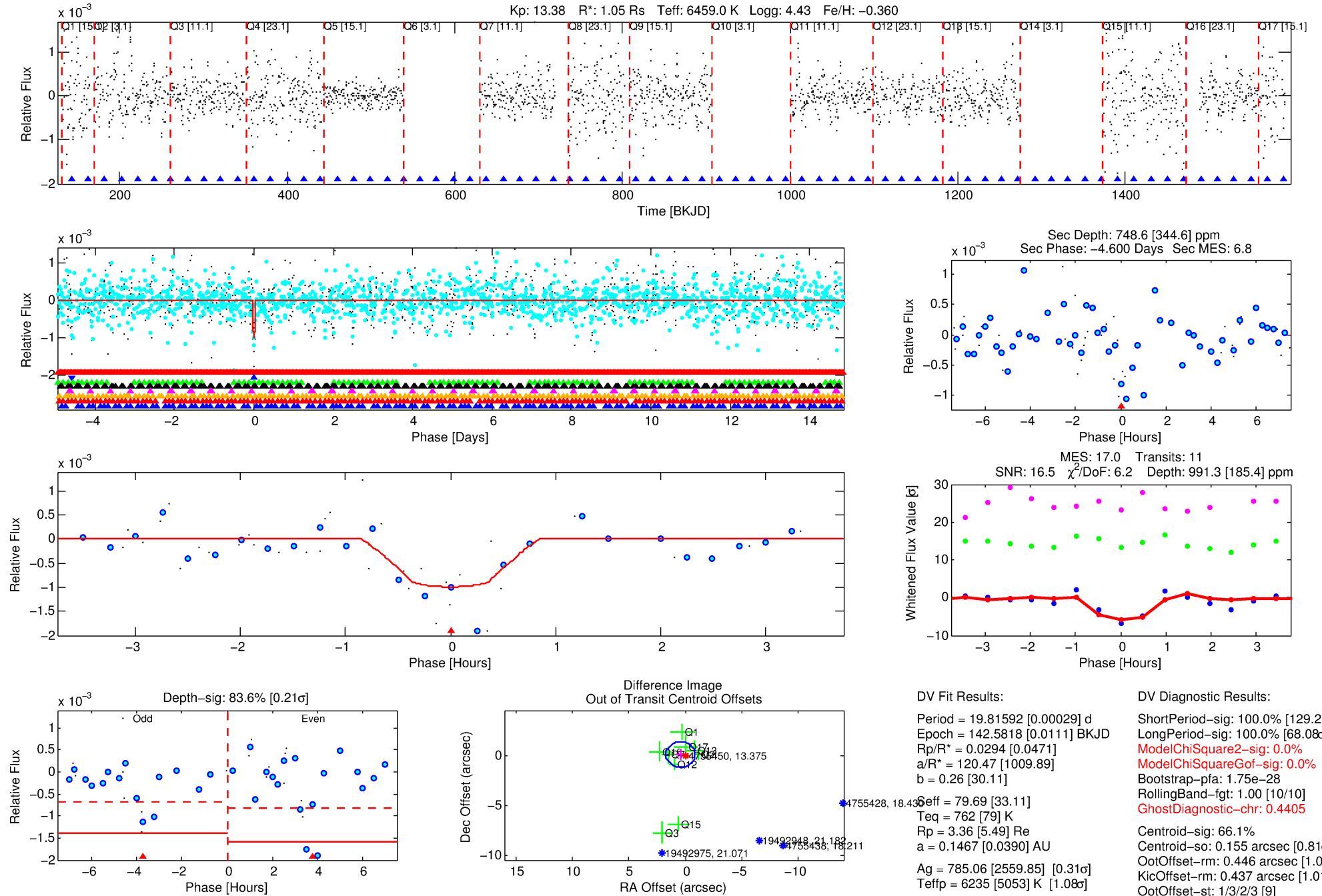
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004755450-02

No Significant Match Found

DV One-Page Summary

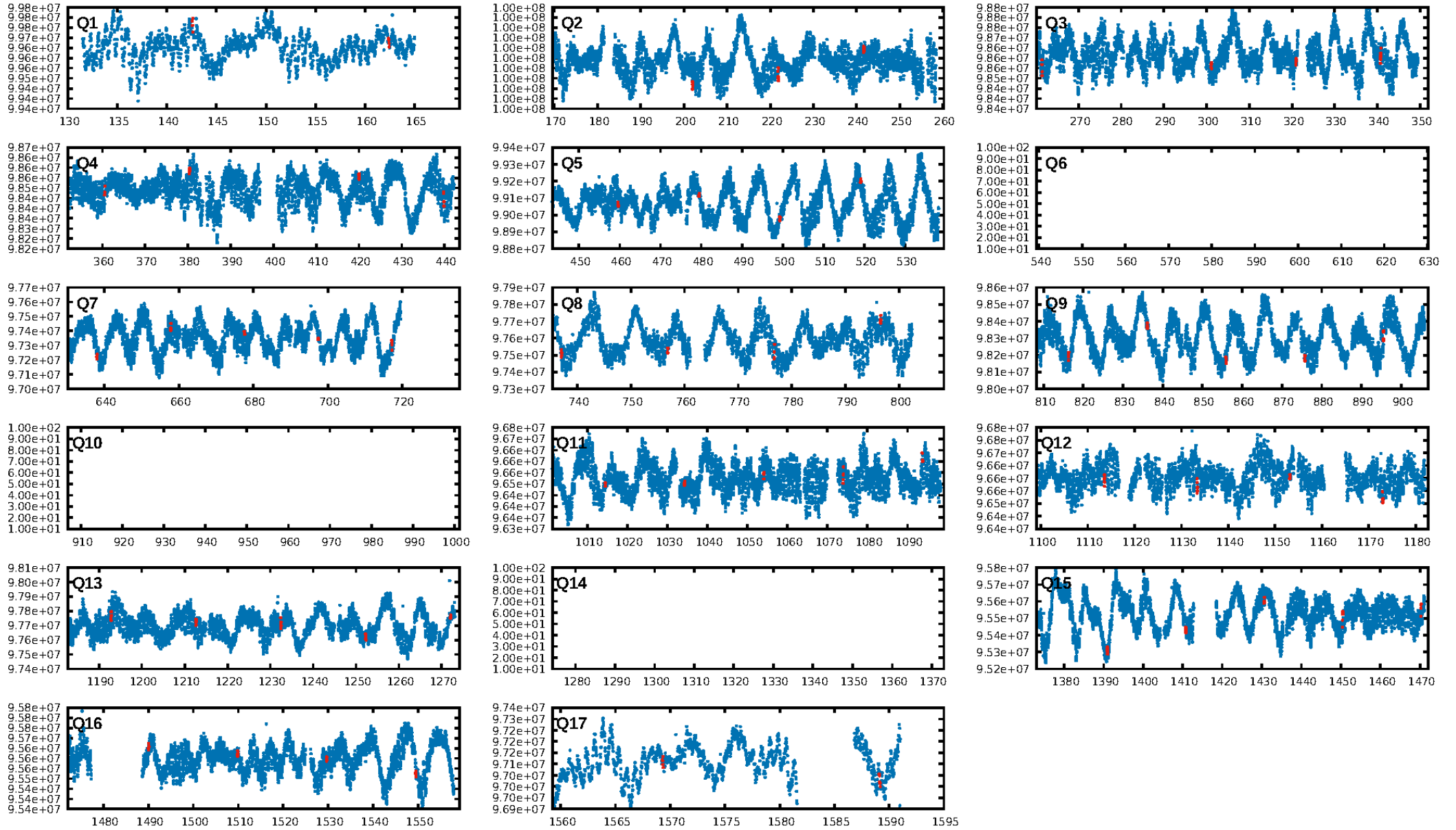
KIC: 4755450 Candidate: 2 of 8 Period: 19.816 d



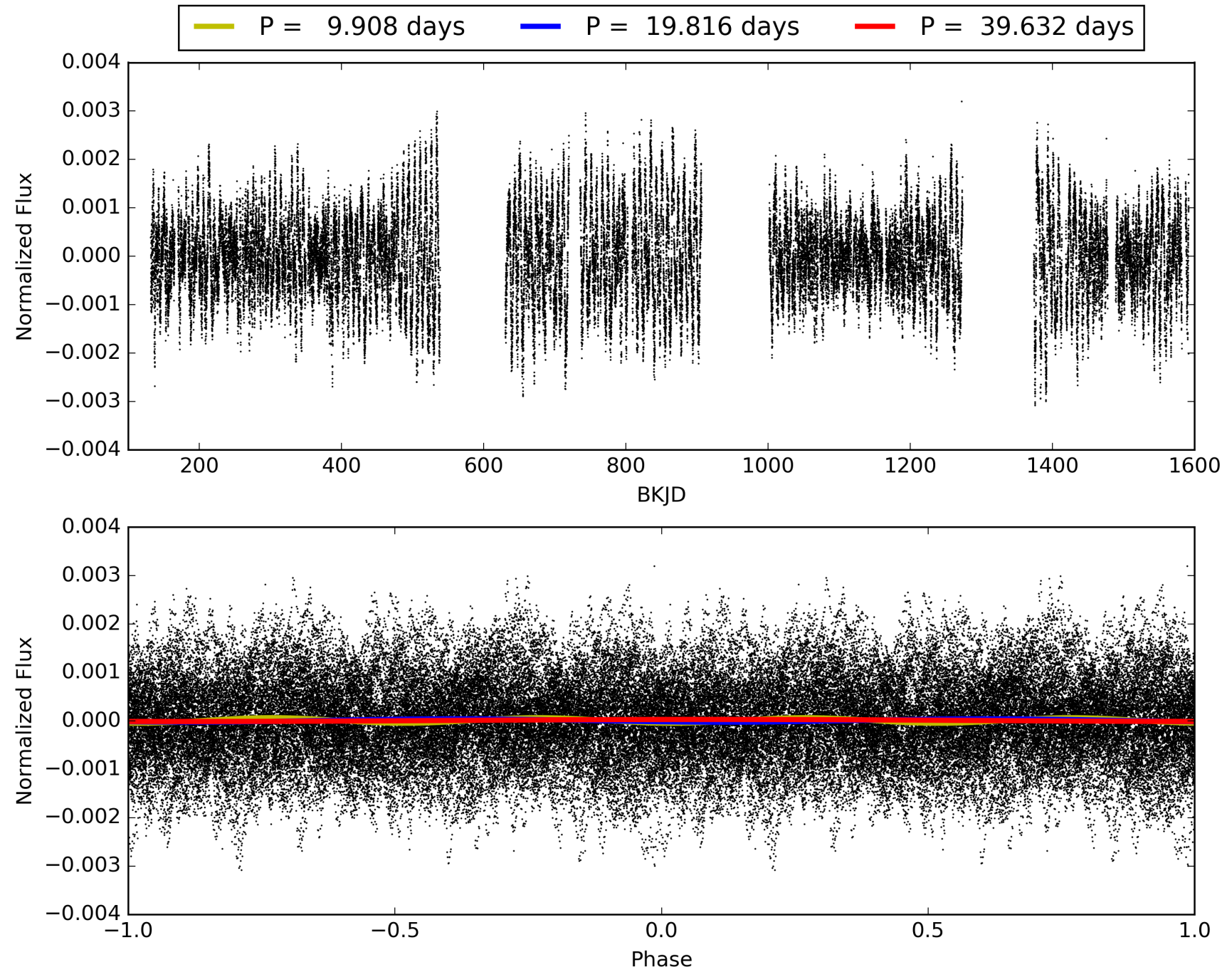
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 05:14:37 Z

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

TCE 004755450-02, PDC Light Curves

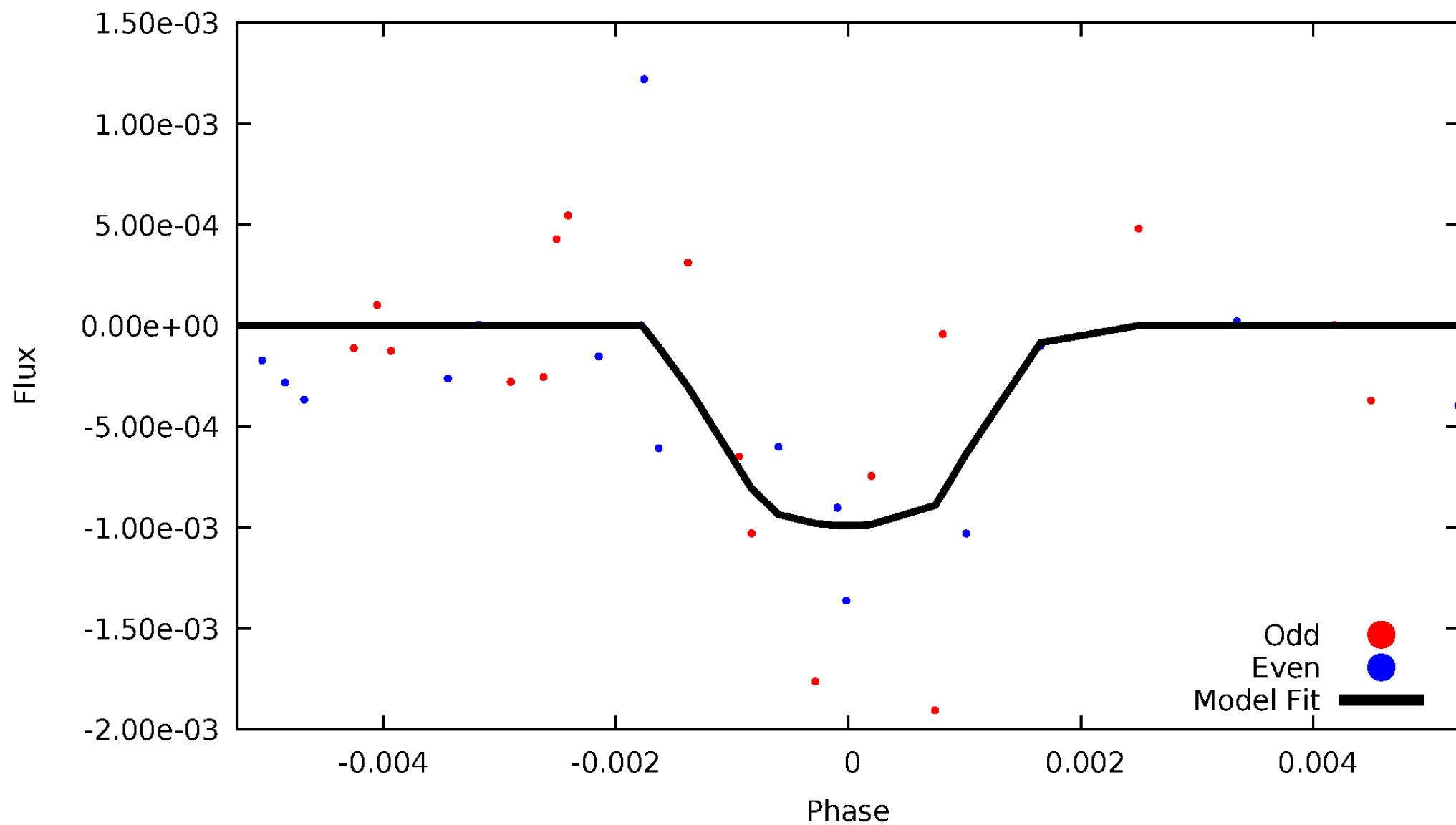


TCE 004755450-02



DV Odd/Even

TCE 004755450-02

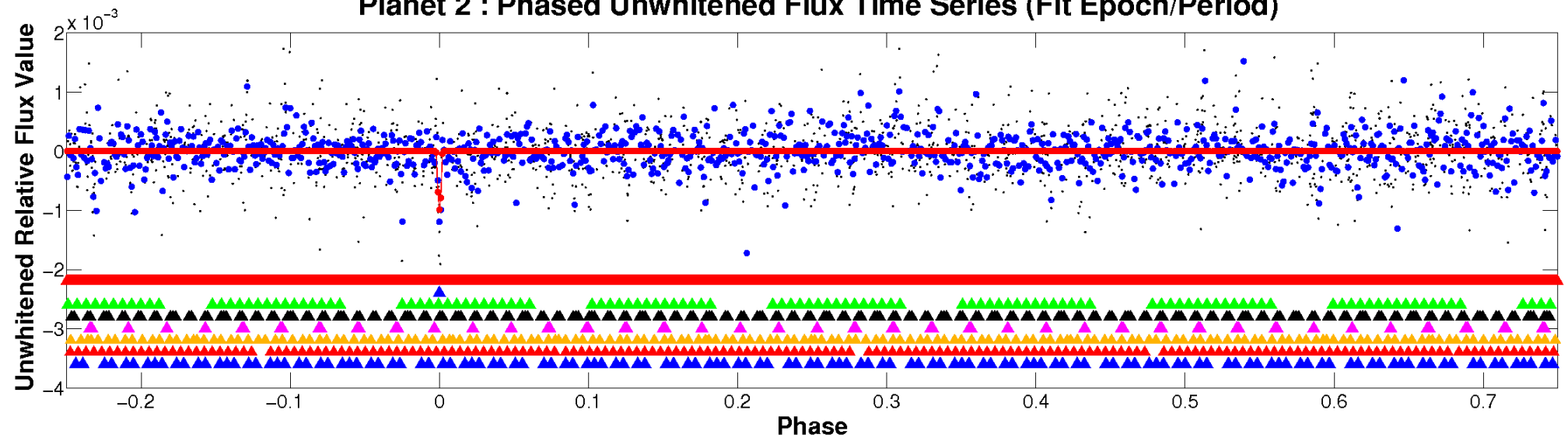


ALT Odd/Even

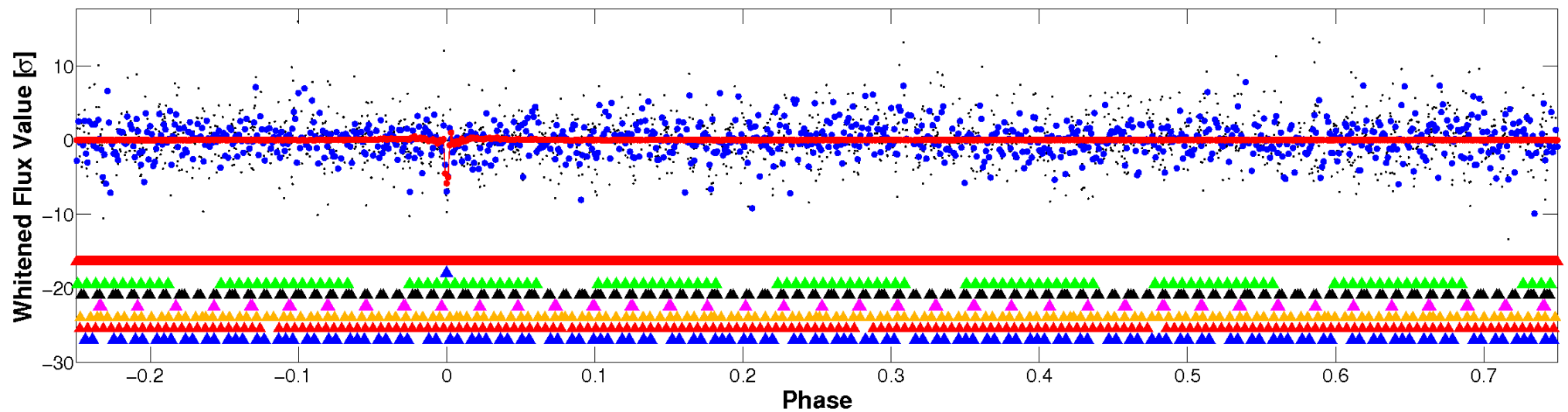
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

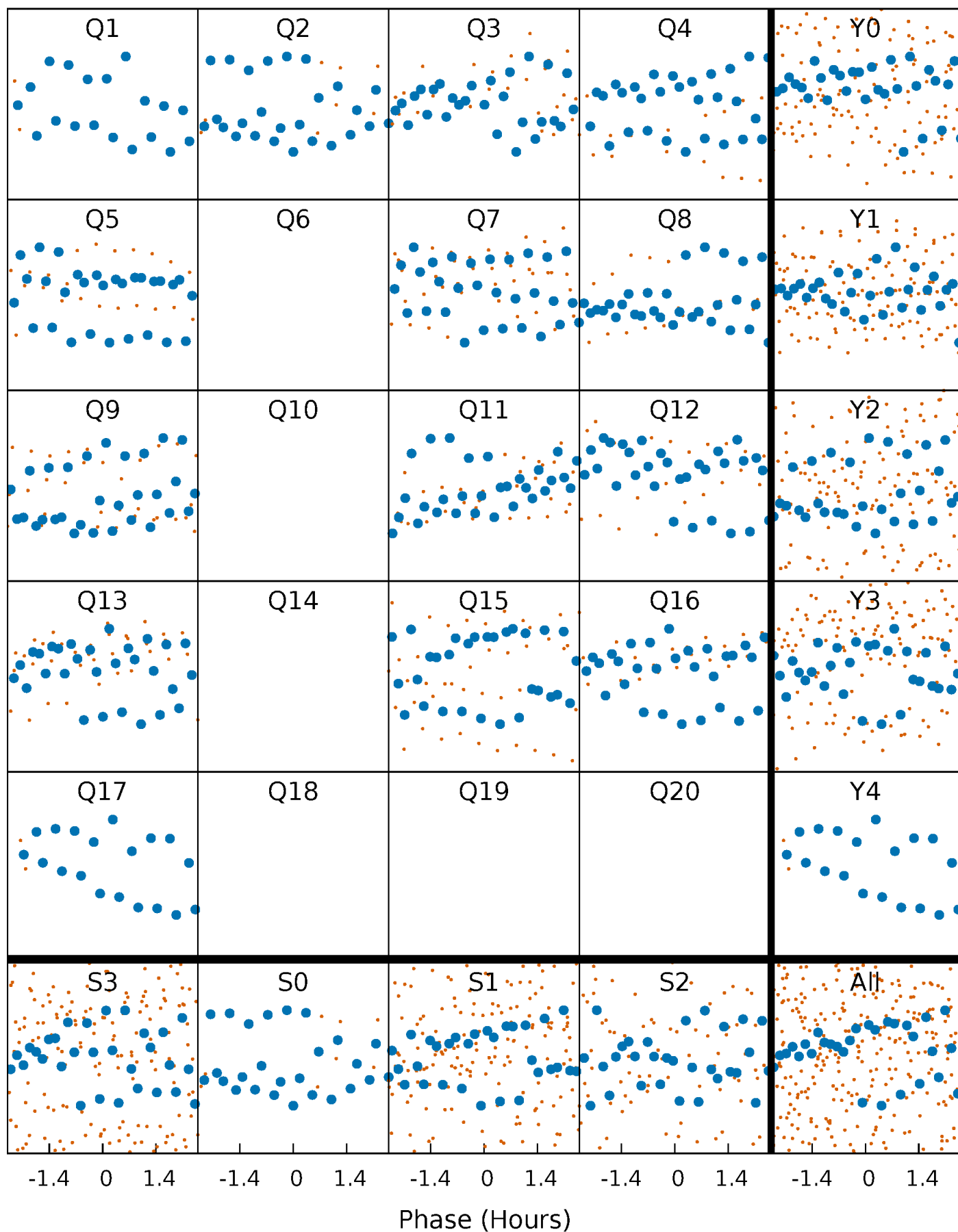


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



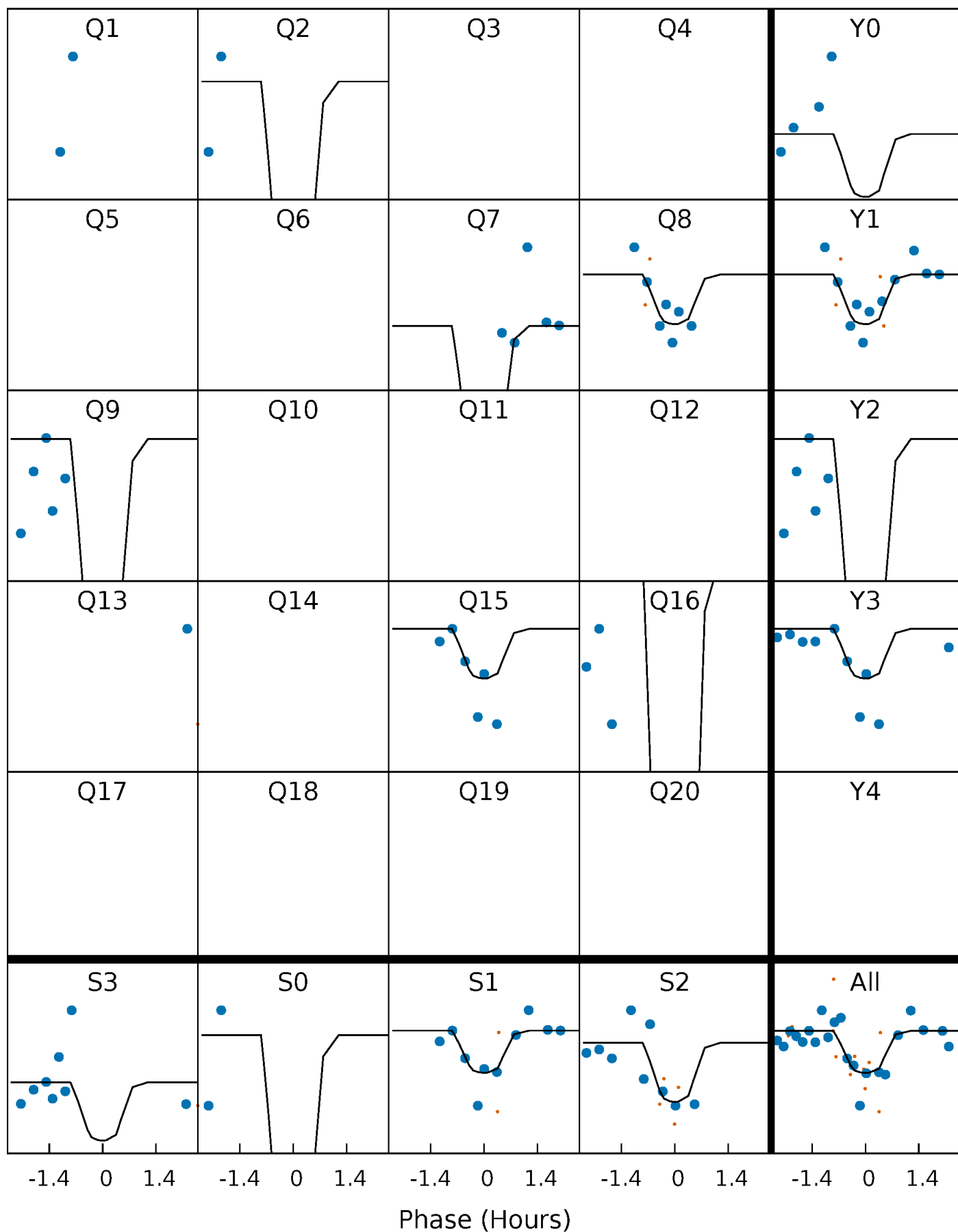
PDC Quarter-Phased Transit Curves

TCE 004755450-02 P= 19.815919 Days $T_0=142.581805$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 004755450-02 P= 19.815919 Days $T_0=142.581805$ (BKJD)

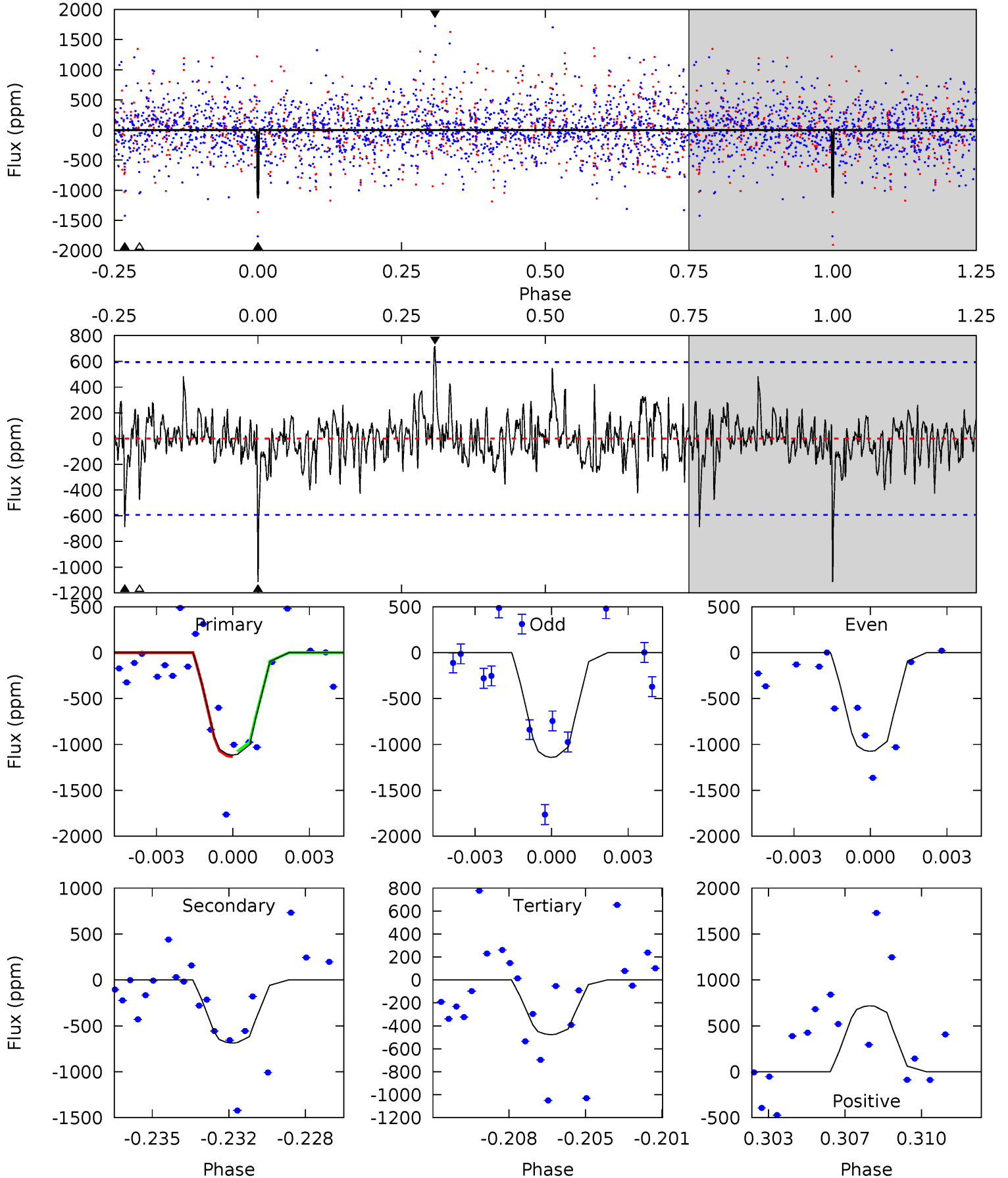


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

004755450-02, P = 19.815919 Days, E = 122.765886 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.82	6.05	4.19	6.32	5.23	2.93	1.30	5.63	3.50	1.86	-0.27	0.28	1.05	0.39	0.24



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 004755450

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6459^{+181}_{-250}	$4.427^{+0.070}_{-0.210}$	$-0.360^{+0.250}_{-0.350}$	$1.049^{+0.333}_{-0.133}$	$1.071^{+0.161}_{-0.146}$	$1.306^{+0.385}_{-0.710}$
	+3%/-4%	+2%/-5%	+69%/-97%	+32%/-13%	+15%/-14%	+29%/-54%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 004755450-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-687 ± 114	$5.43^{+4.68}_{-3.57}$	1083^{+75}_{-57}	4917^{+3861}_{-958}	264^{+1951}_{-186}
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 $A_{\text{obs}} \gg 1.0$

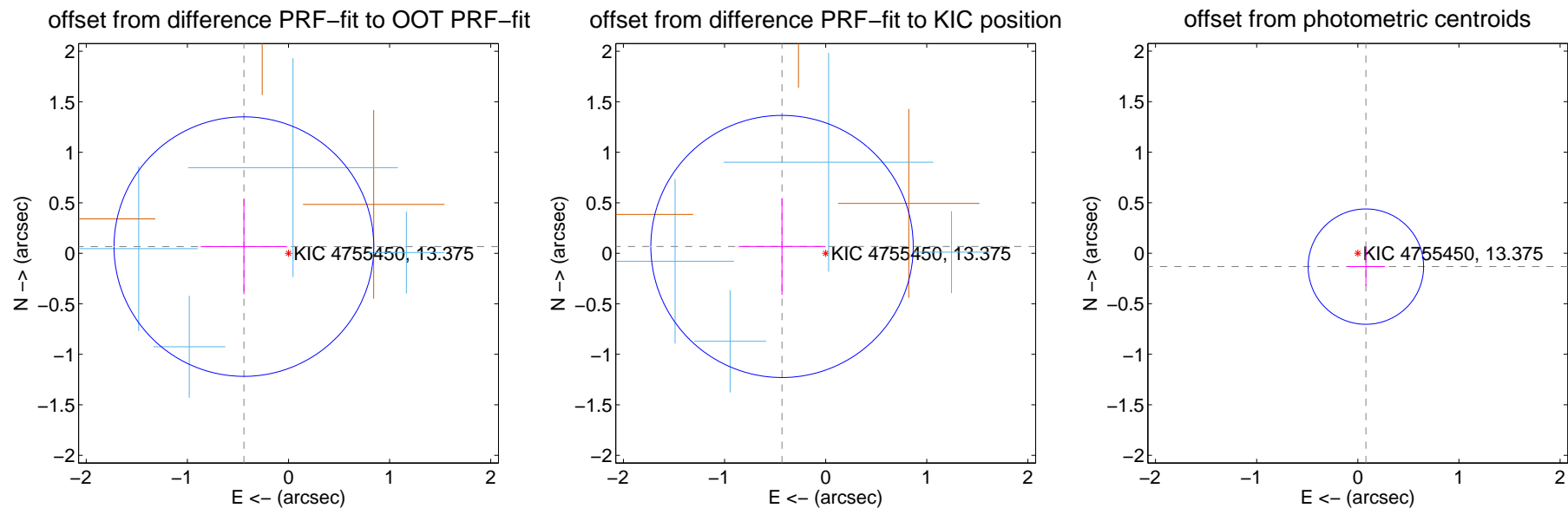
DV Centroid Data

Supplemental centroid analysis for 004755450-02. Kepler magnitude: 13.38. Transit SNR 16.51

There are 4 quarters with good PRF difference image offsets

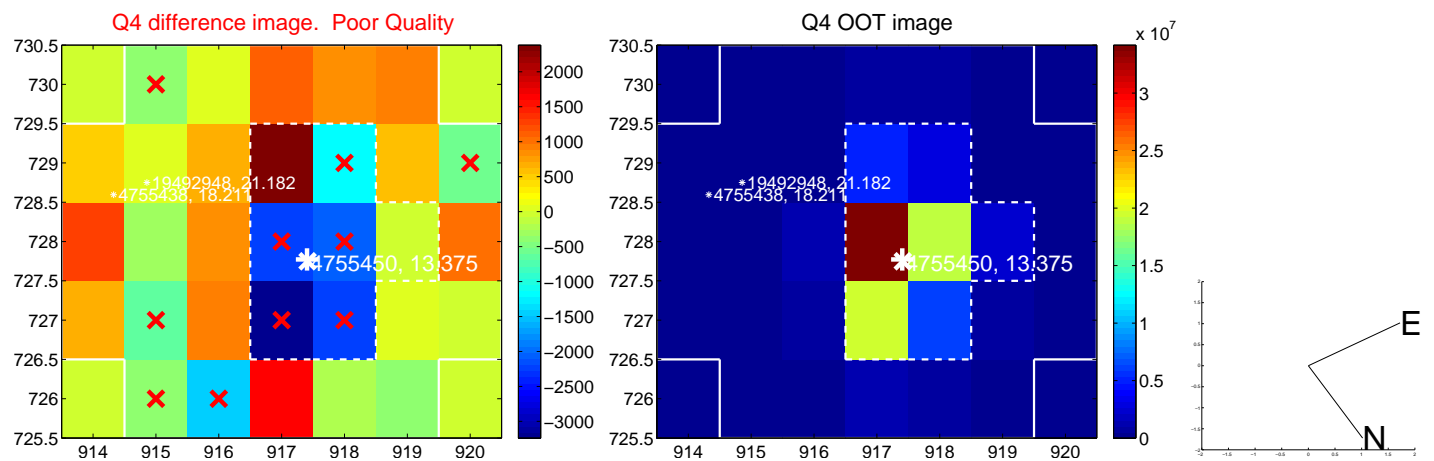
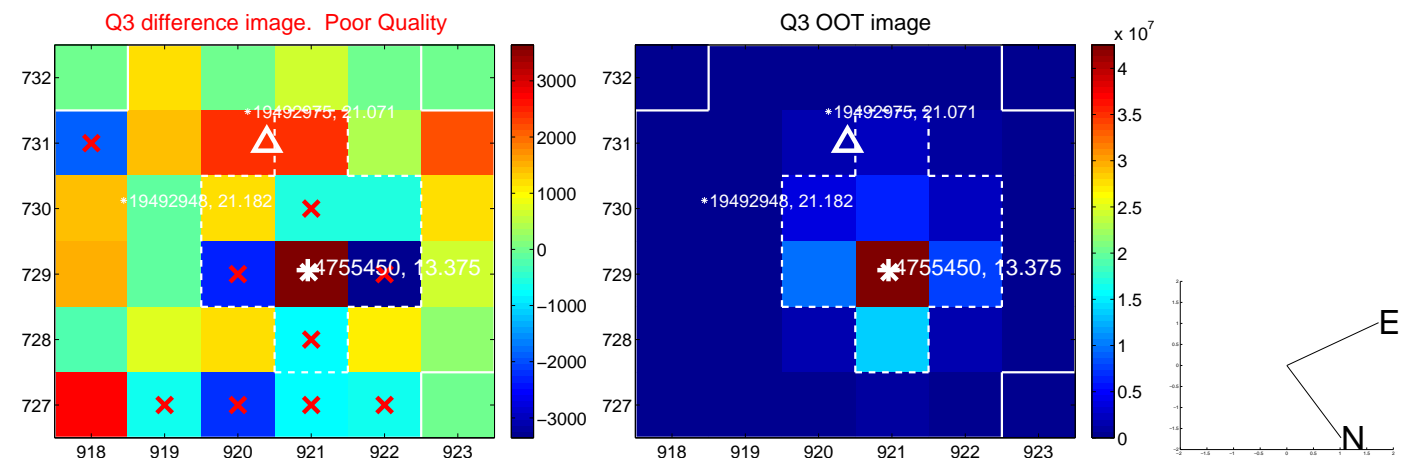
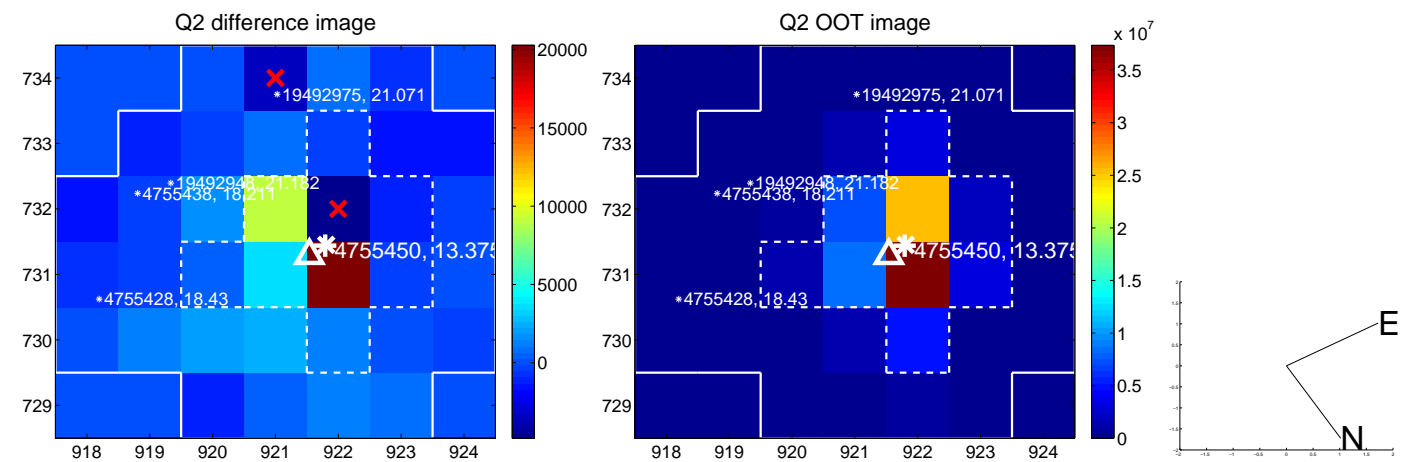
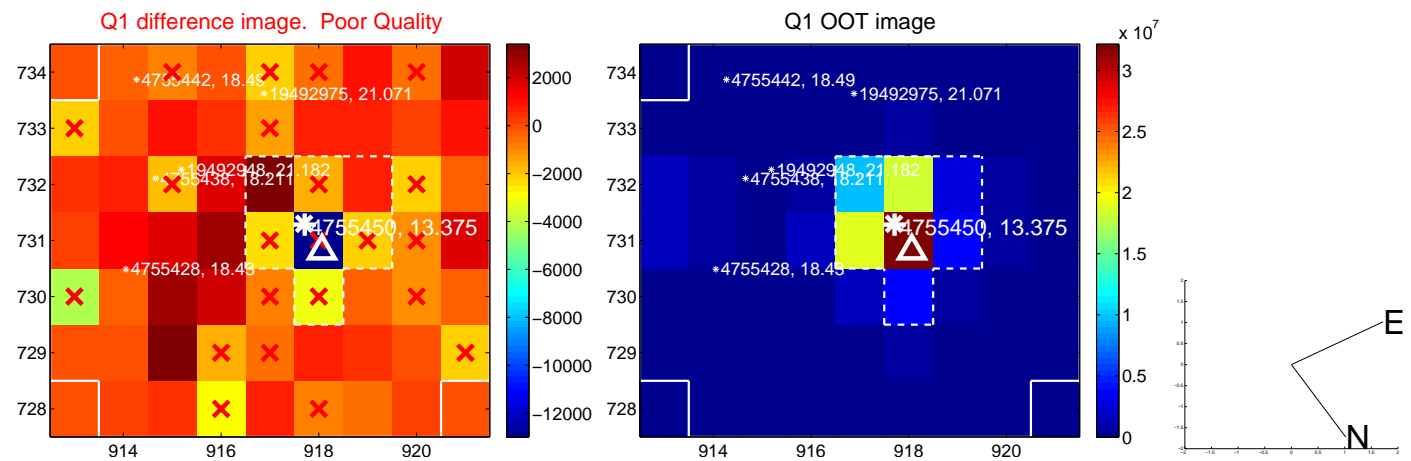
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.446 ± 0.428	1.04	0.441 ± 0.427	0.066 ± 0.471
PRF-fit source offset from KIC position	0.437 ± 0.433	1.01	0.431 ± 0.431	0.068 ± 0.479
photometric centroid source offset	0.15 ± 0.19	0.81	-0.08 ± 0.19	-0.13 ± 0.19

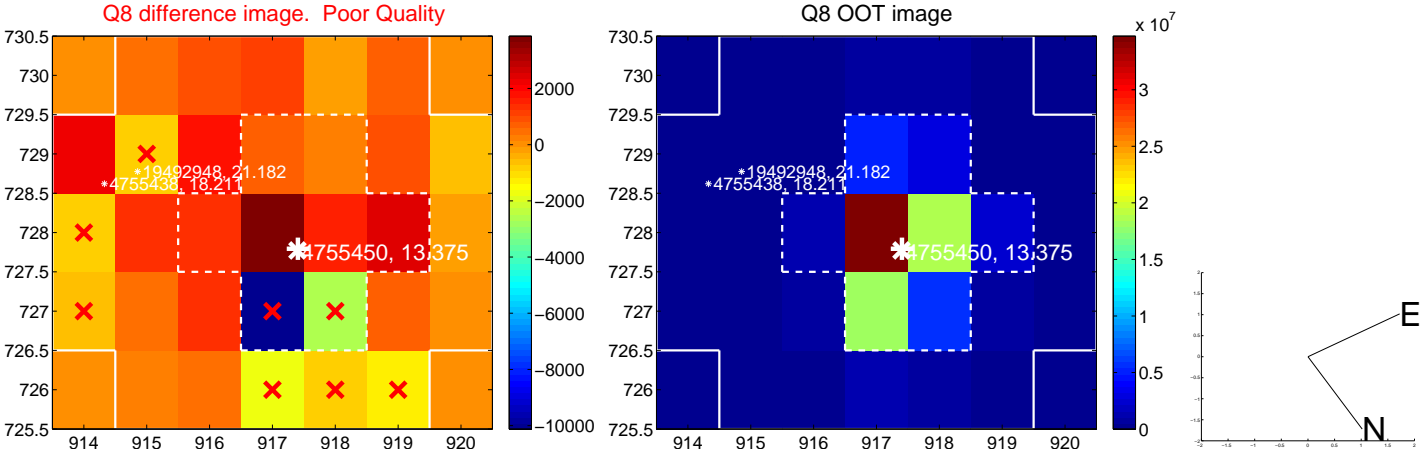
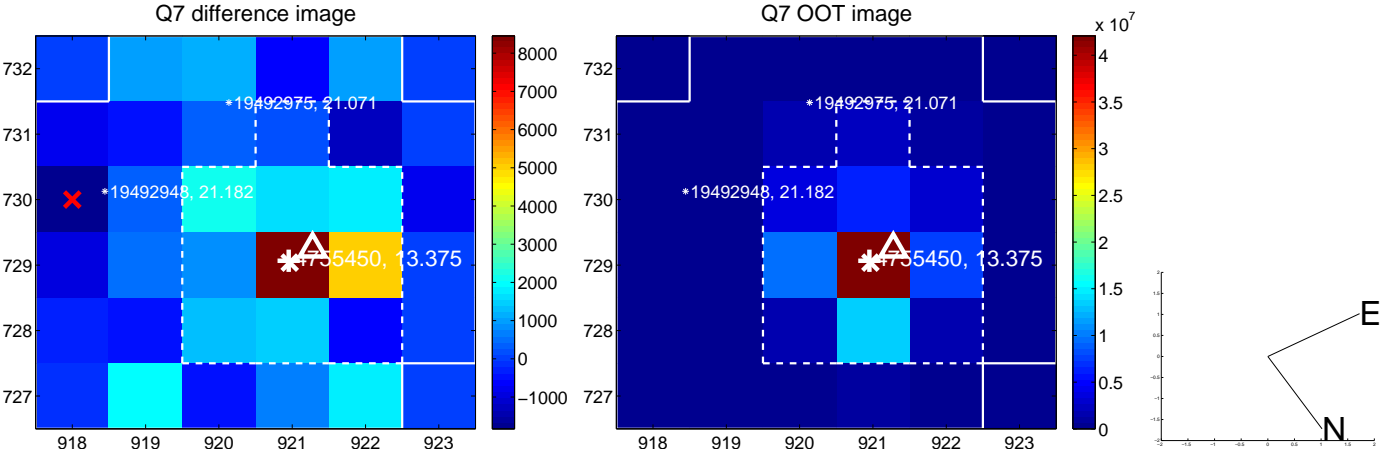
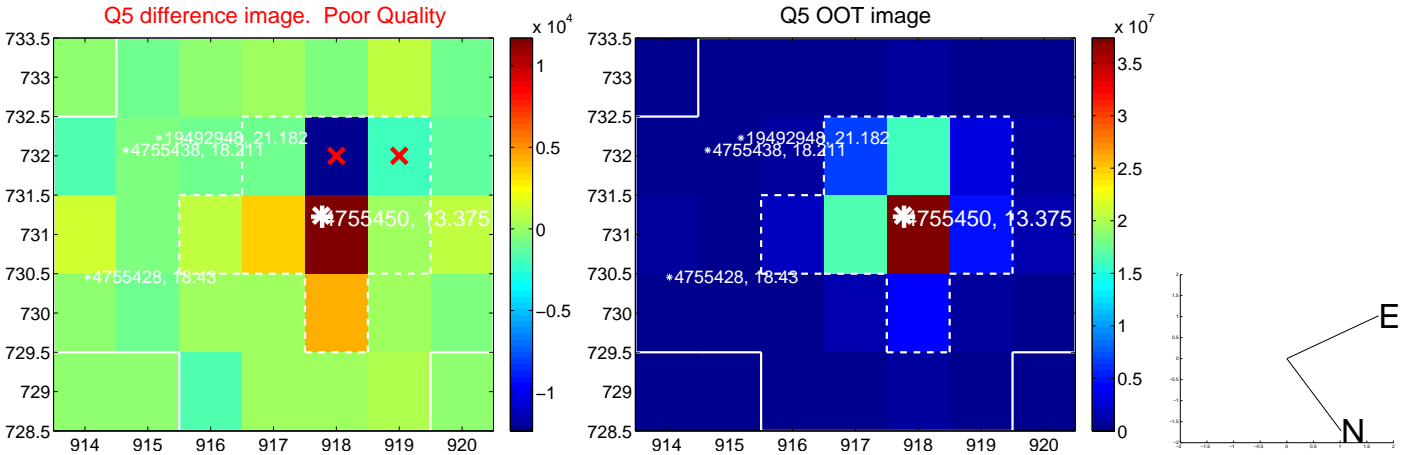


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

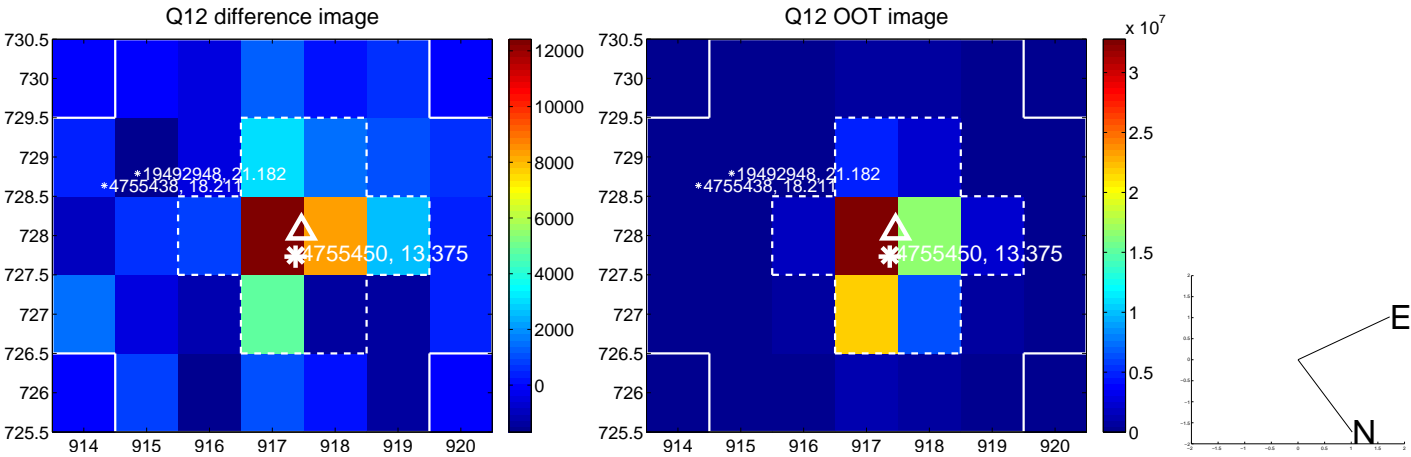
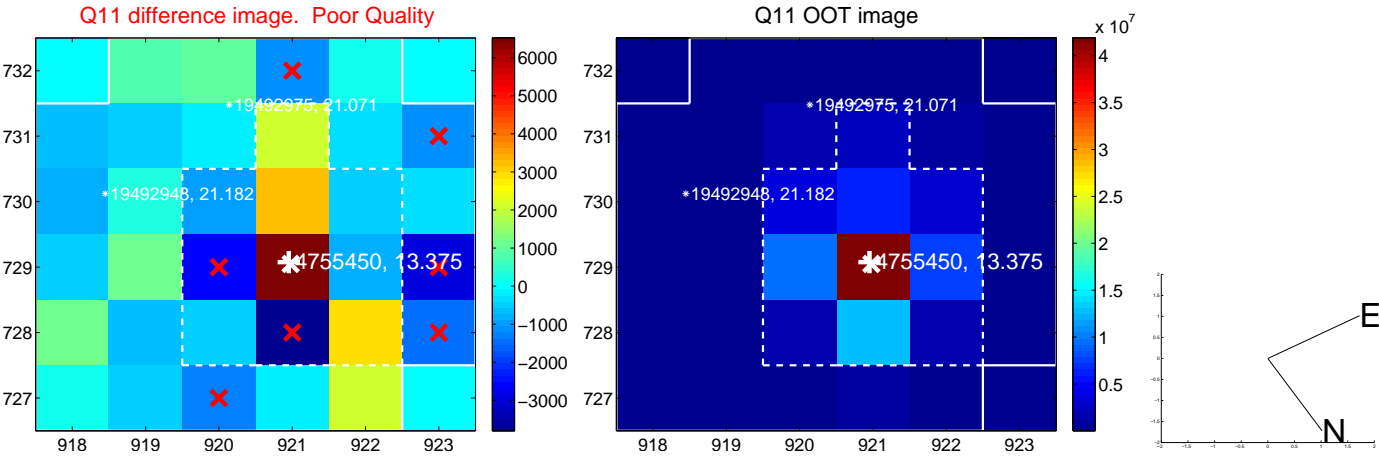
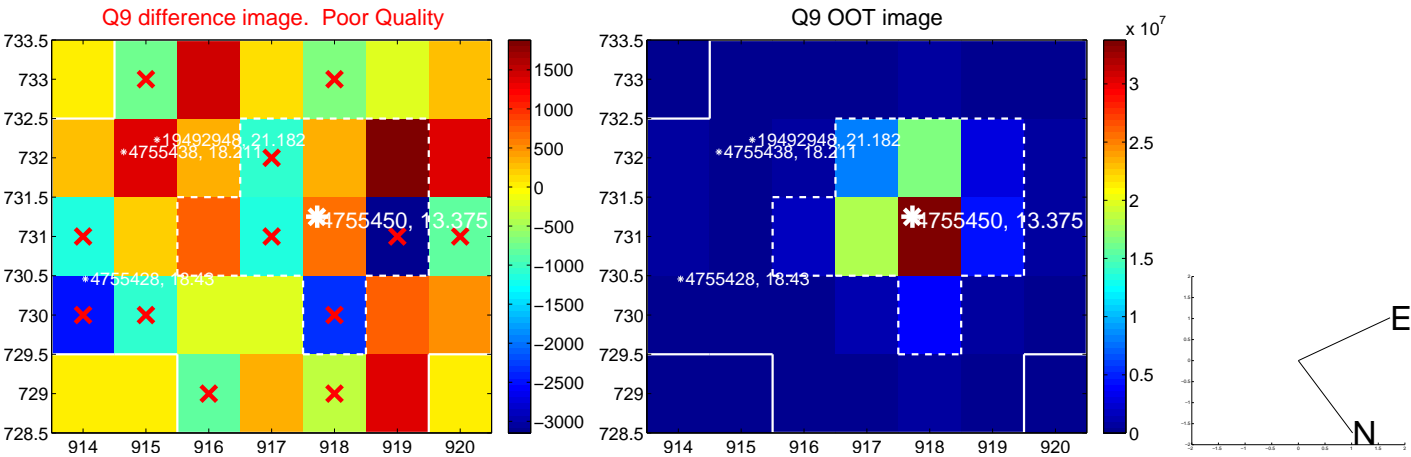
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



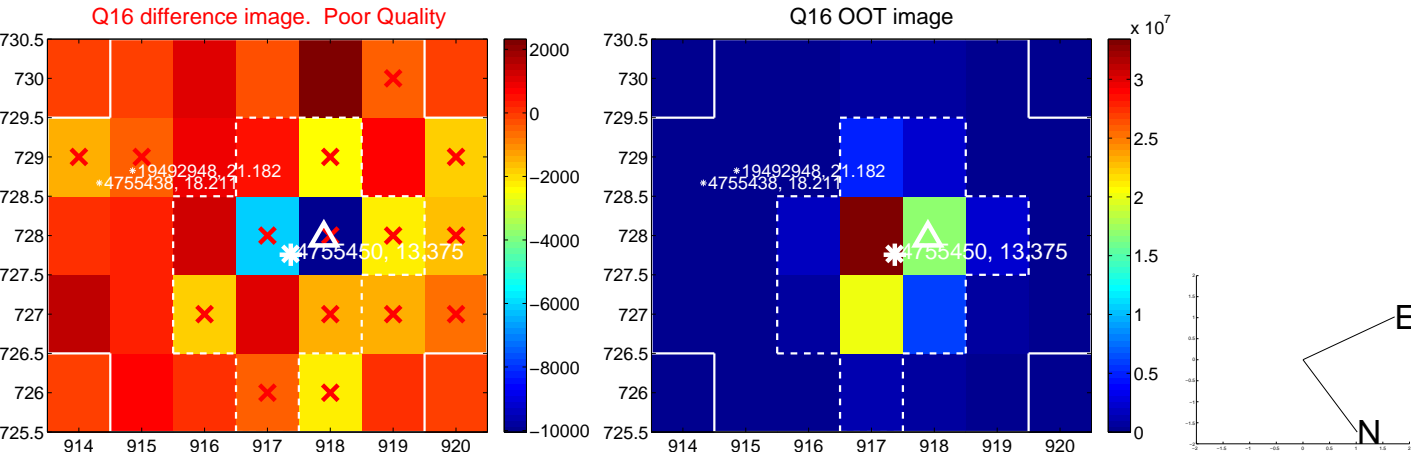
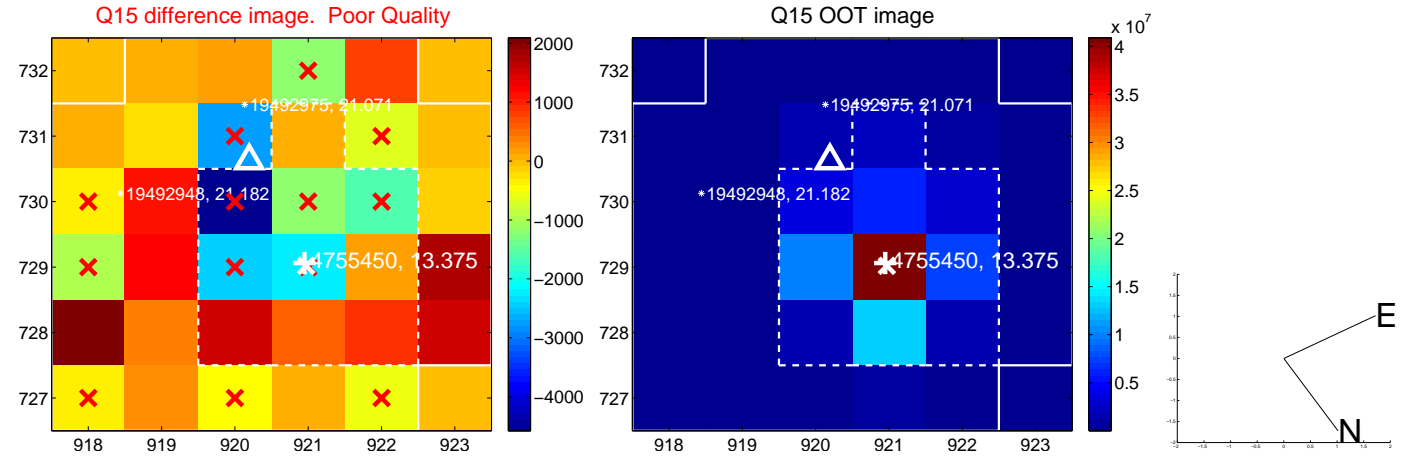
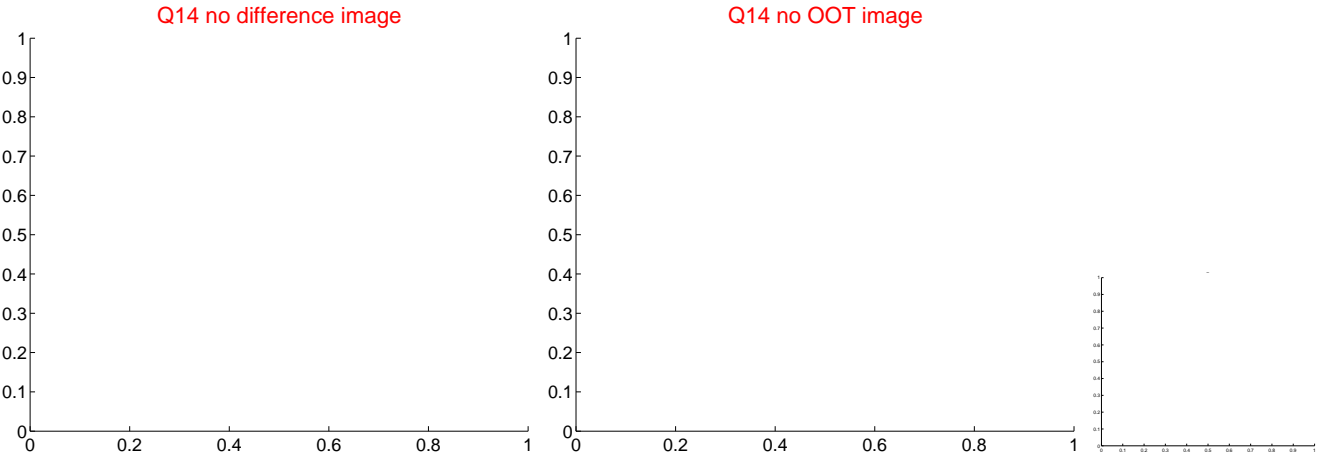
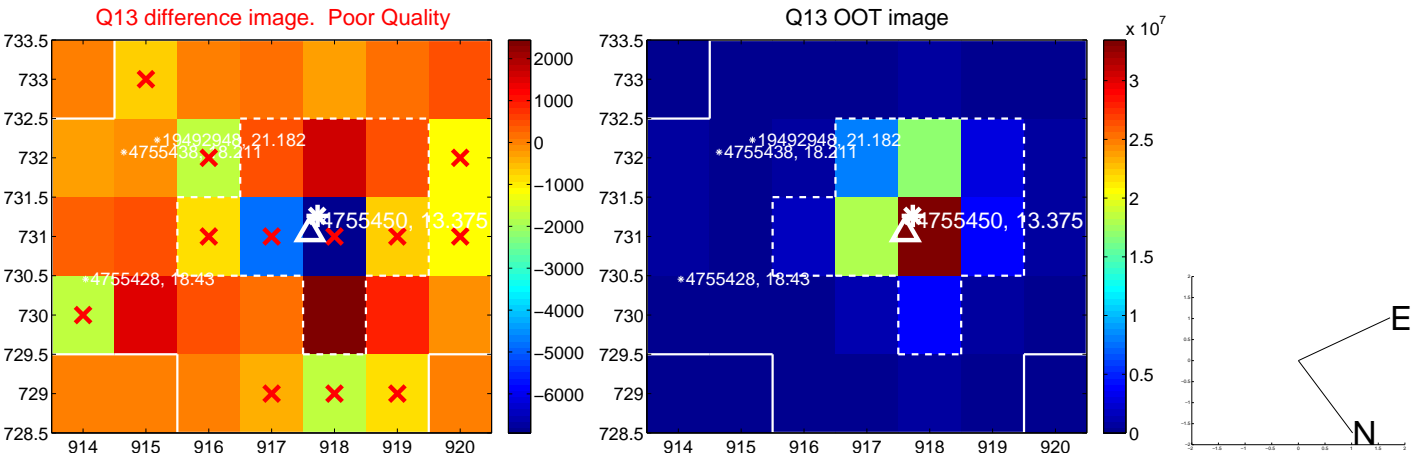
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



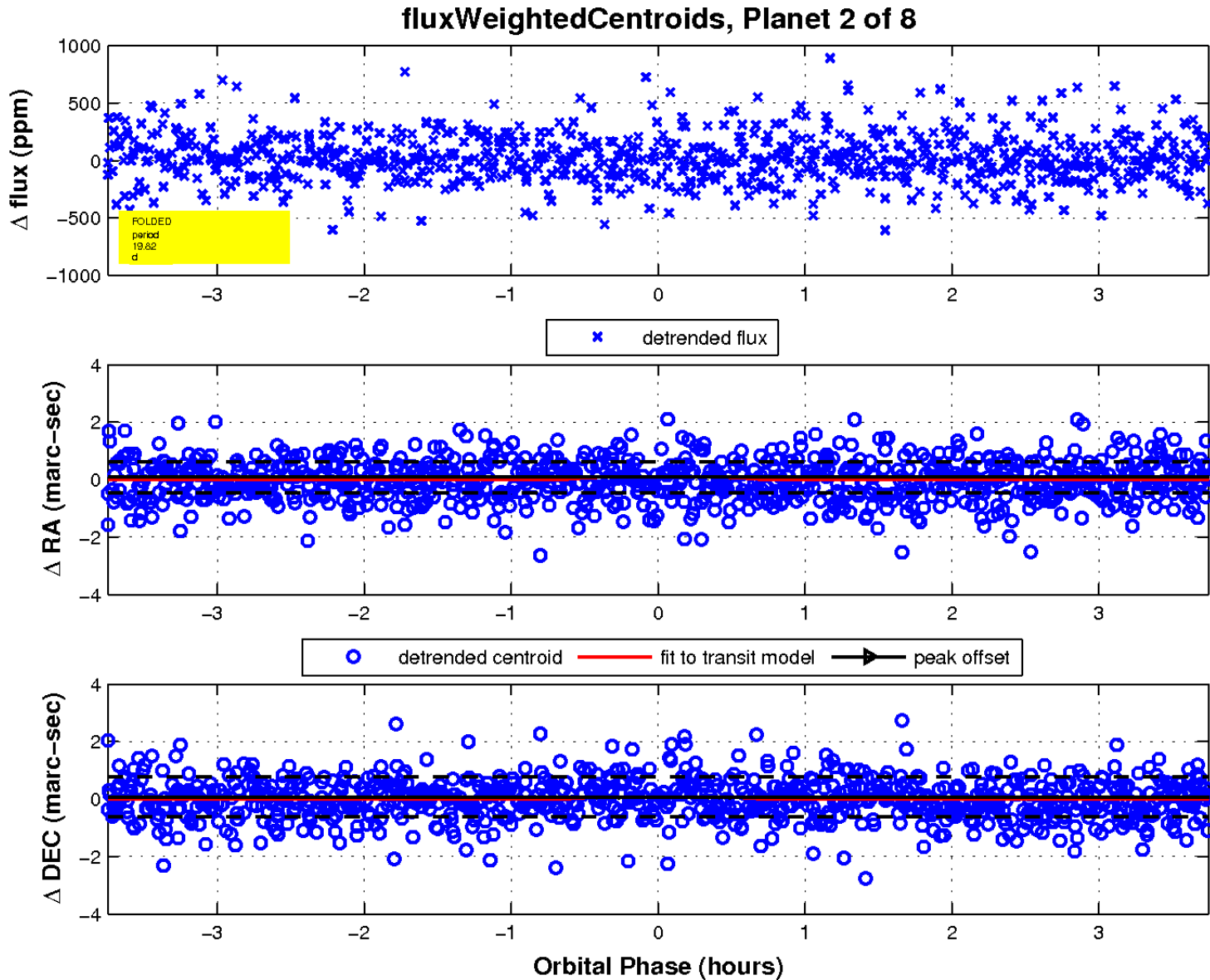
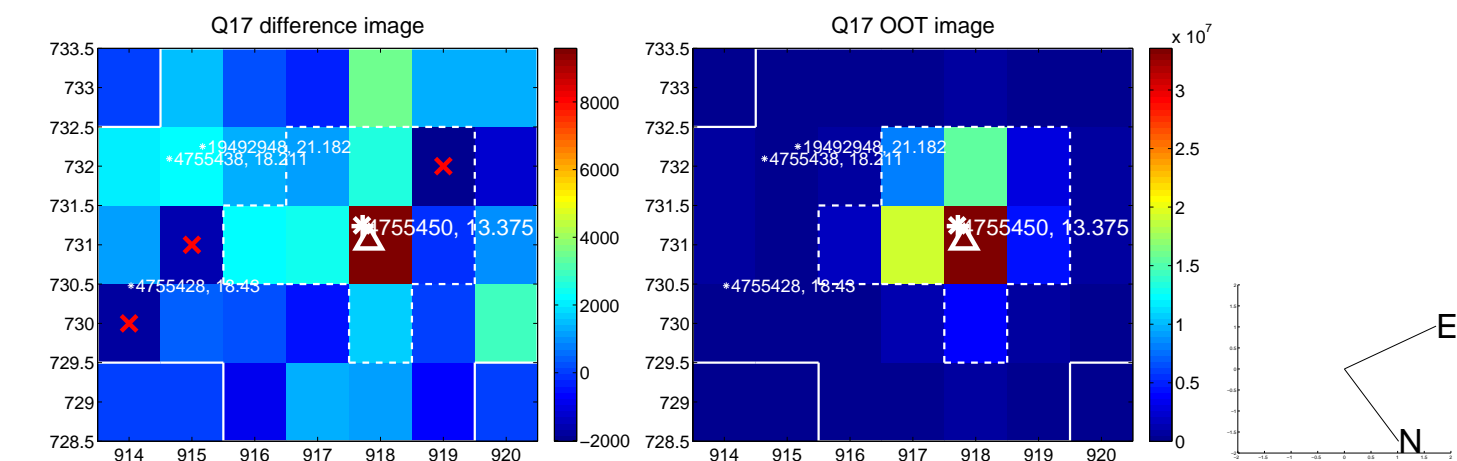
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

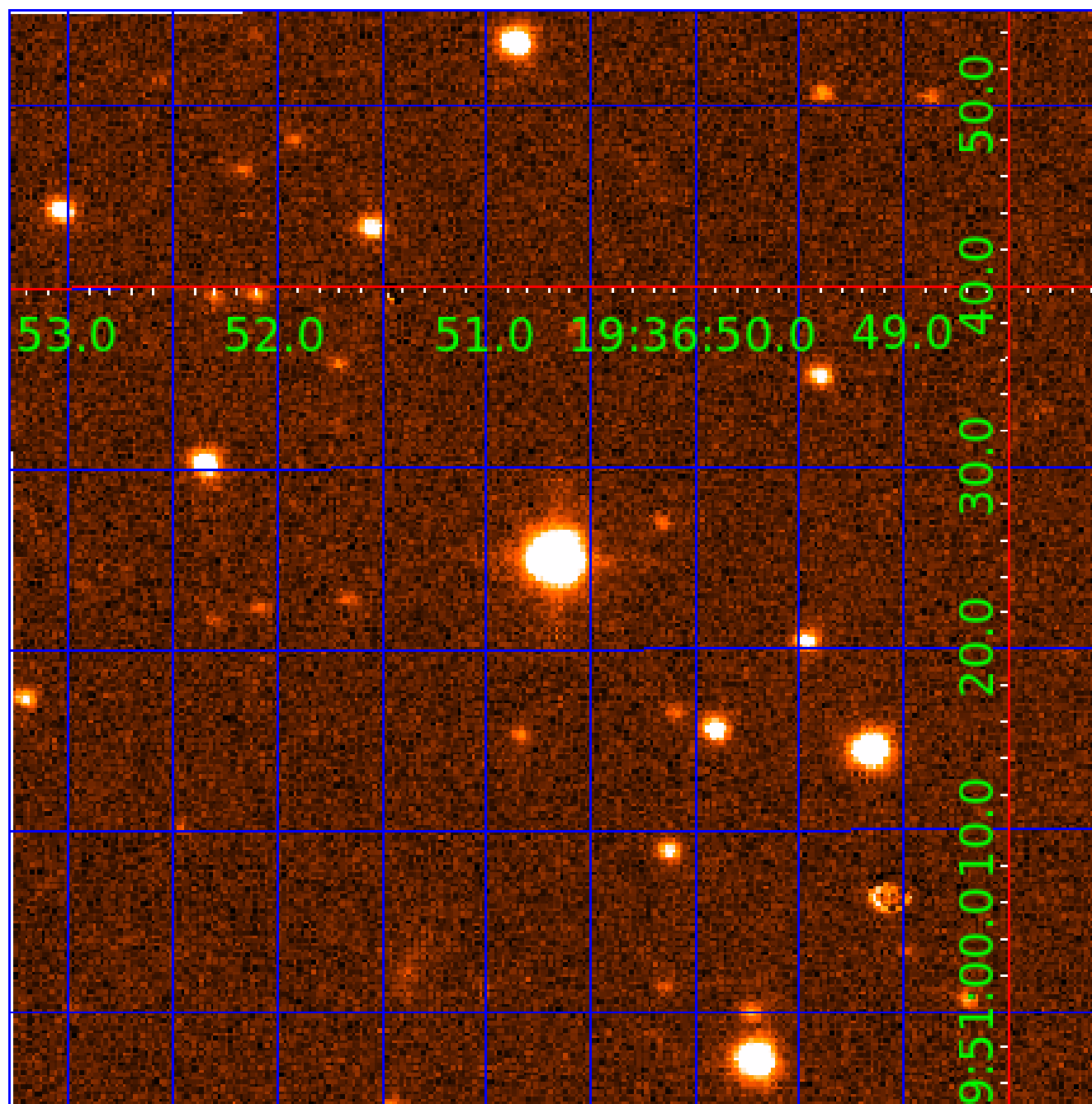


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 004755450

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})
004755450-01	OBS	No	0.507703	131.633551	21.0	3.720	7.9	9.1	1.05	6459	0.53	10550.18
004755450-02	OBS	No	19.815919	142.581805	991.3	1.250	17.0	16.5	1.05	6459	3.36	79.69
004755450-03	OBS	No	12.369838	138.856659	793.8	0.590	12.4	8.2	1.05	6459	3.26	149.37
004755450-04	OBS	No	7.125213	137.447743	721.4	0.957	12.4	14.5	1.05	6459	2.92	311.66
004755450-05	OBS	No	23.881304	131.829472	1382.3	0.701	11.7	15.3	1.05	6459	4.00	62.13
004755450-06	OBS	No	8.207509	137.955301	305.4	2.164	9.0	8.6	1.05	6459	1.85	258.10
004755450-07	OBS	No	7.947327	136.314372	477.7	1.843	11.3	10.3	1.05	6459	2.38	269.43
004755450-08	OBS	No	10.721633	139.666006	640.6	1.001	12.5	11.9	1.05	6459	2.87	180.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004755450-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS
004755450-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
004755450-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—CENT_FEW_DIFFS—HALO_GHOST
004755450-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

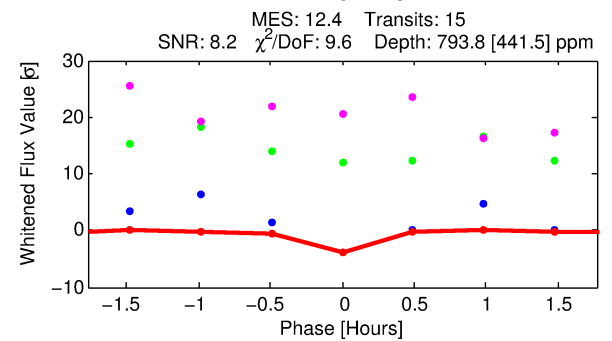
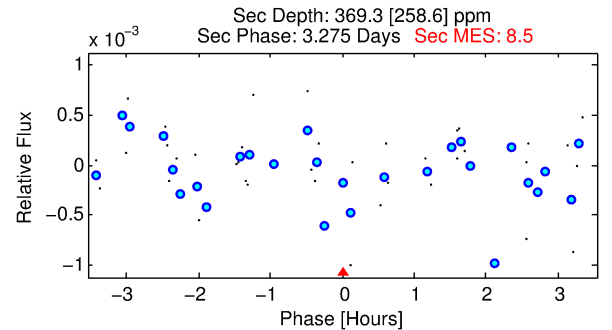
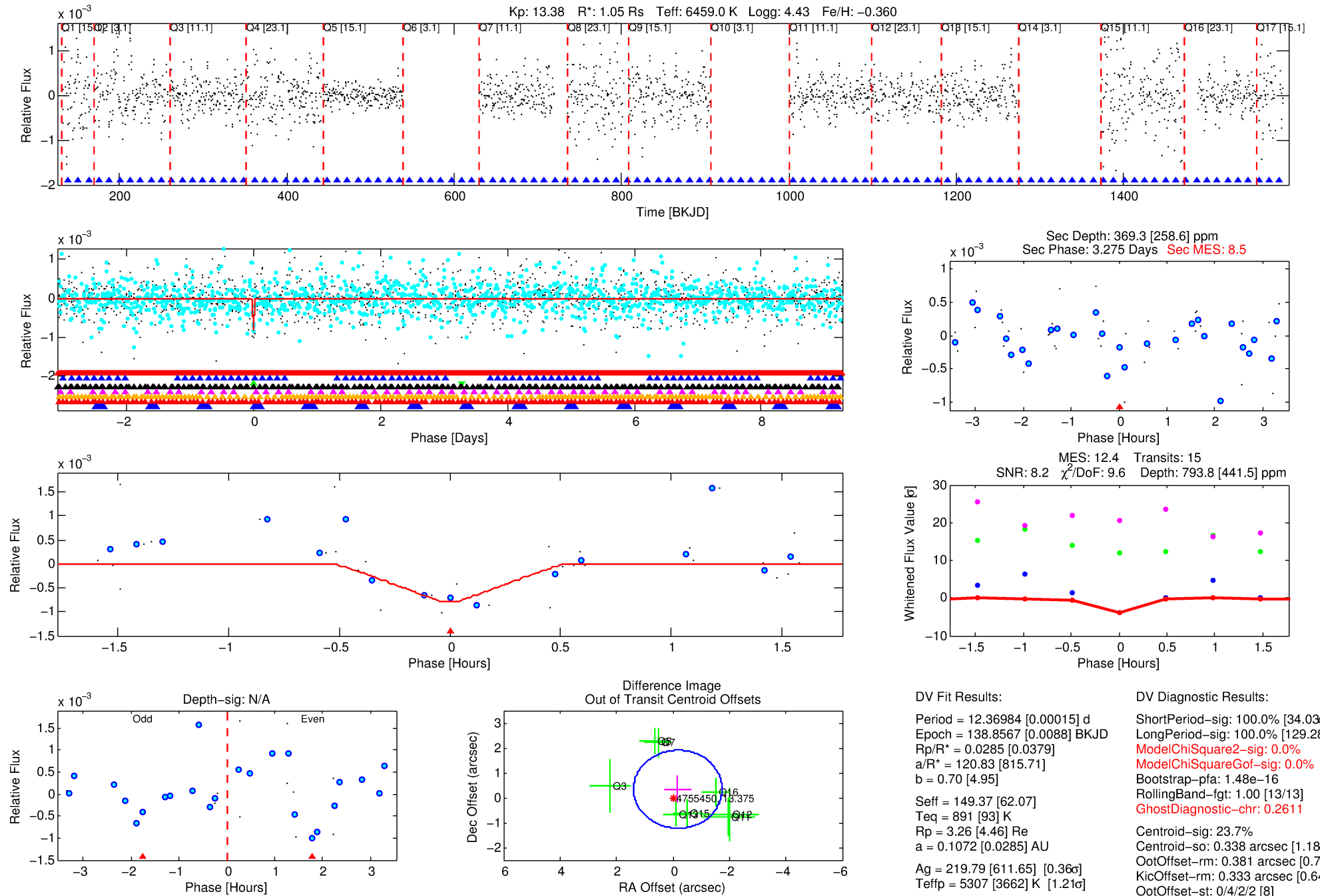
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004755450-03

No Significant Match Found

DV One-Page Summary

KIC: 4755450 Candidate: 3 of 8 Period: 12.370 d



DV Fit Results:

Period = 12.36984 [0.00015] d
Epoch = 138.8567 [0.0088] BKJD
Rp/R* = 0.0285 [0.0379]
a/R* = 120.83 [815.71]
b = 0.70 [4.95]
Seff = 149.37 [62.07]
Teff = 891 [93] K
Rp = 3.26 [4.46] Re
a = 0.1072 [0.0285] AU
Ag = 219.79 [611.65] [0.36σ]
Teffp = 5307 [3662] K [1.21σ]

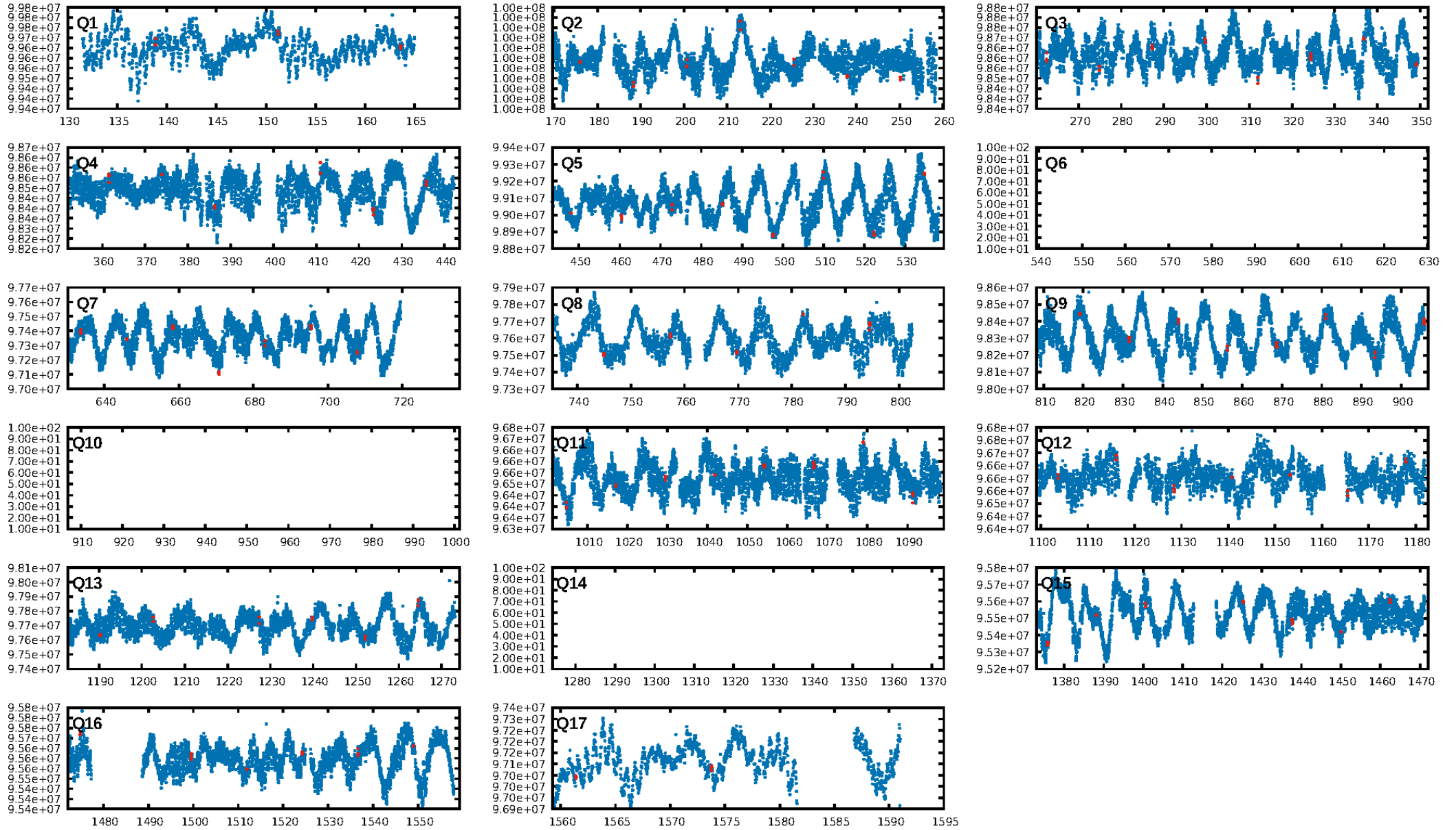
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [34.03σ]
LongPeriod-sig: 100.0% [129.28σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 1.48e-16
RollingBand-fgt: 1.00 [13/13]
GhostDiagnostic-chr: 0.2611
Centroid-sig: 23.7%
Centroid-so: 0.338 arcsec [1.18σ]
OotOffset-rm: 0.381 arcsec [0.73σ]
KicOffset-rm: 0.333 arcsec [0.64σ]
OotOffset-st: 0/4/2/2 [8]
KicOffset-st: 0/4/2/2 [8]
DiffImageQuality-fgm: 0.38 [3/8]
DiffImageOverlap-fno: 0.00 [0/14]

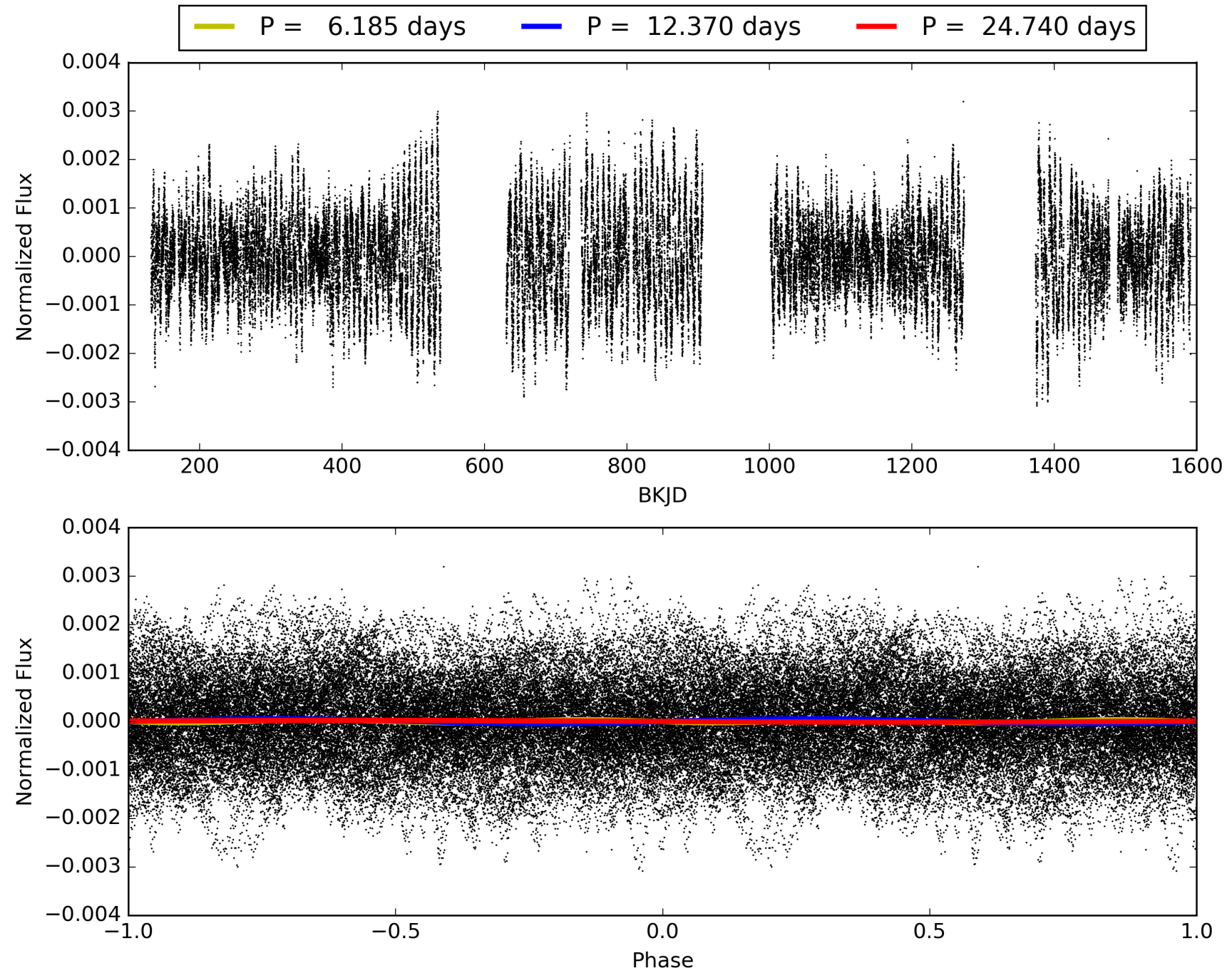
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 05:14:40 Z

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

TCE 004755450-03, PDC Light Curves

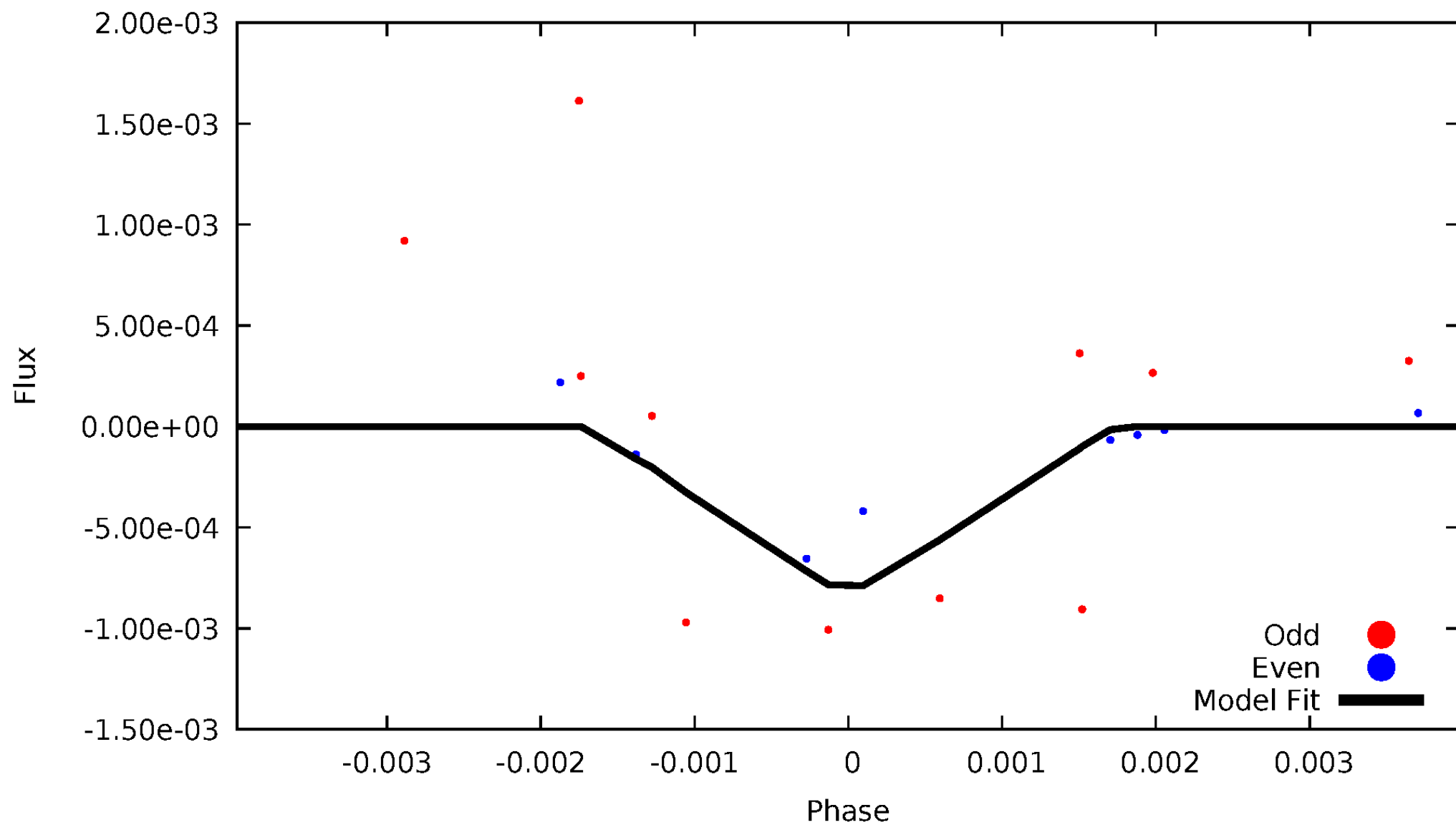


TCE 004755450-03



DV Odd/Even

TCE 004755450-03

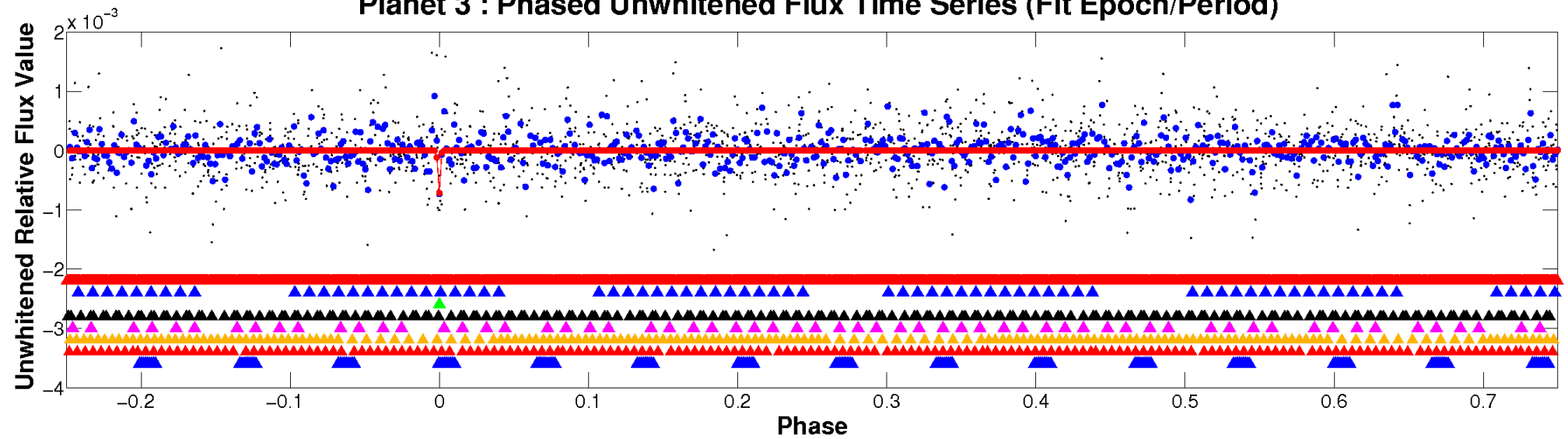


ALT Odd/Even

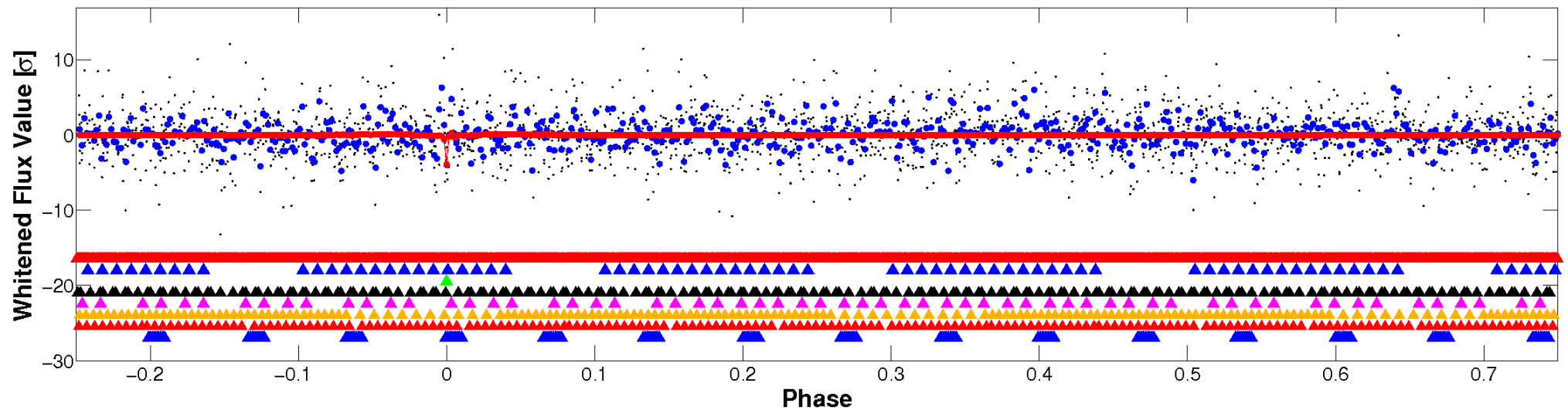
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

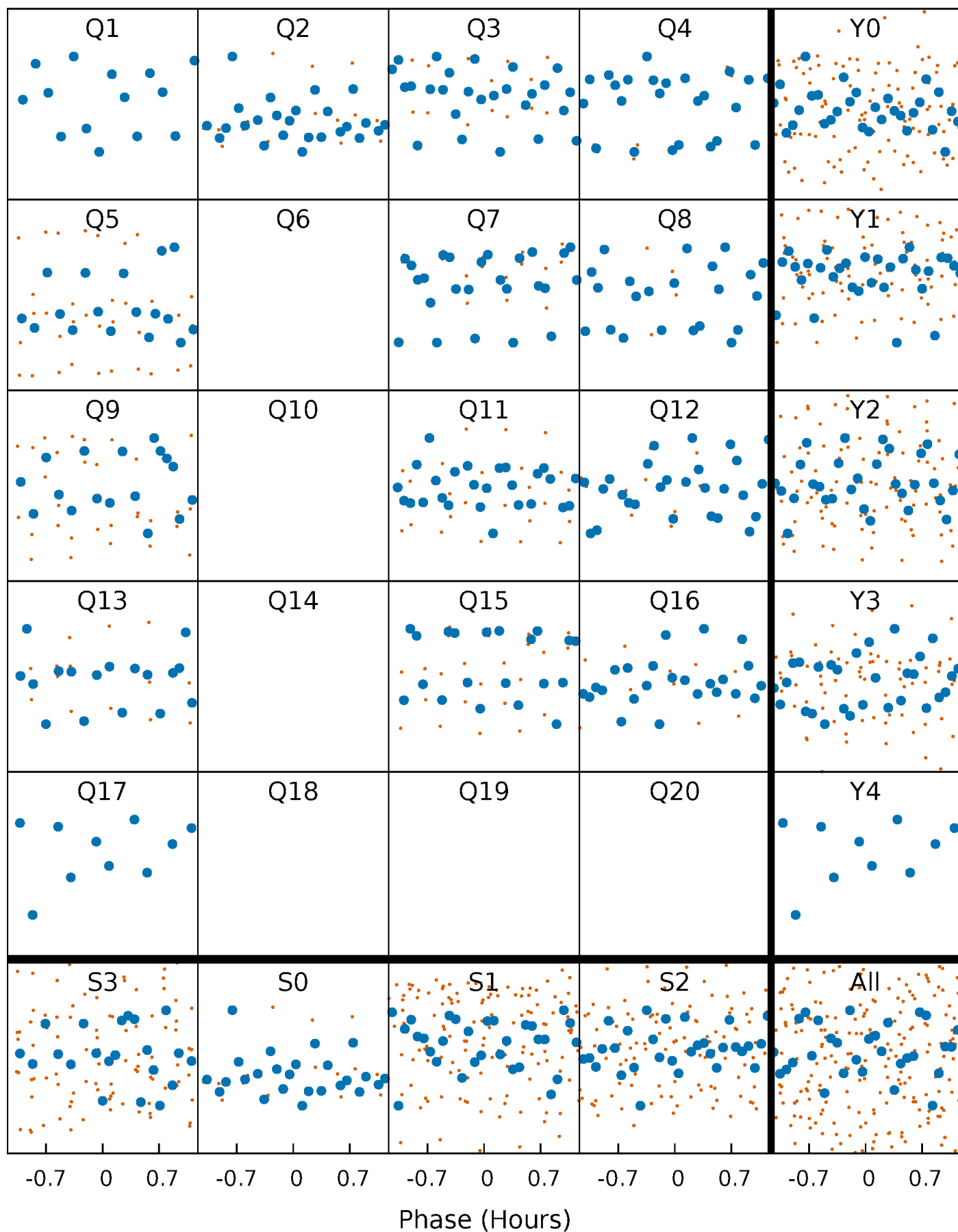


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



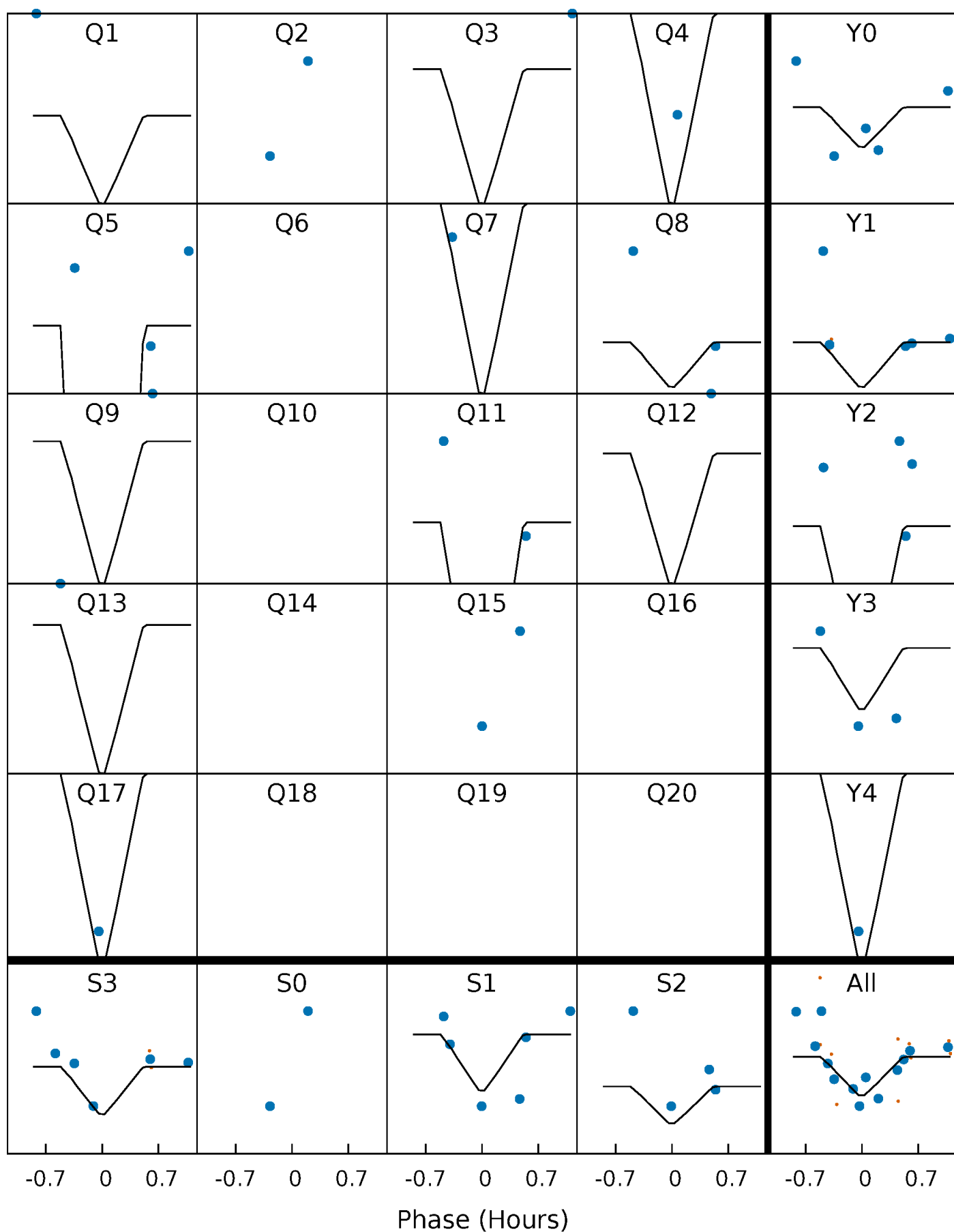
PDC Quarter-Phased Transit Curves

TCE 004755450-03 P= 12.369838 Days $T_0=138.856659$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 004755450-03 P= 12.369838 Days $T_0=138.856659$ (BKJD)

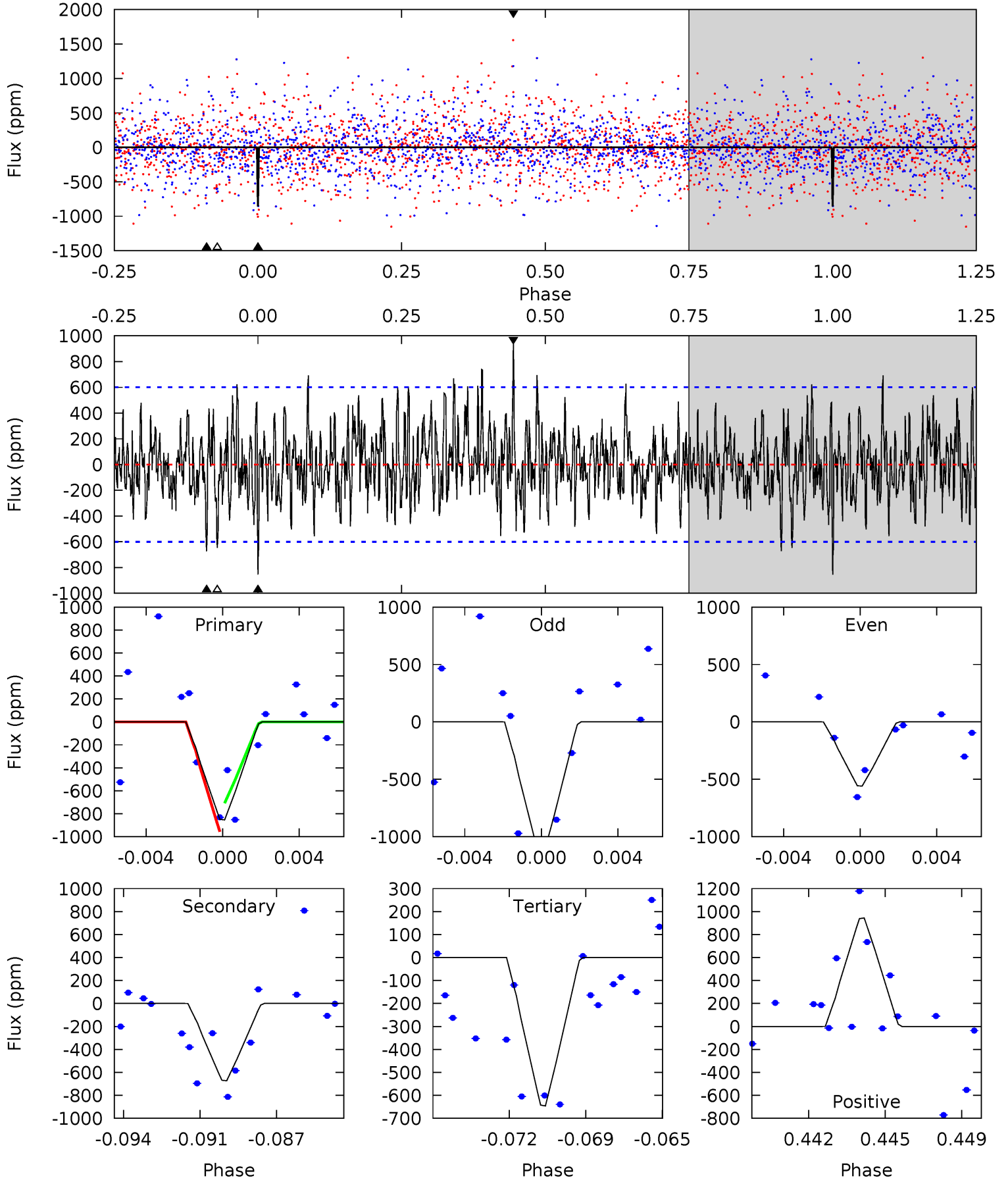


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

004755450-03, P = 12.369838 Days, E = 126.486821 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.42	5.85	5.62	8.21	5.22	2.91	1.90	1.80	-0.79	0.23	-2.36	2.52	1.00	0.53	1.09



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 004755450

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6459^{+181}_{-250}	$4.427^{+0.070}_{-0.210}$	$-0.360^{+0.250}_{-0.350}$	$1.049^{+0.333}_{-0.133}$	$1.071^{+0.161}_{-0.146}$	$1.306^{+0.385}_{-0.710}$
	+3%/-4%	+2%/-5%	+69%/-97%	+32%/-13%	+15%/-14%	+29%/-54%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 004755450-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-673 ± 115	$4.98^{+3.83}_{-3.22}$	1266^{+97}_{-67}	5130^{+3573}_{-1013}	168^{+1112}_{-116}
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 $A_{\text{obs}} \gg 1.0$

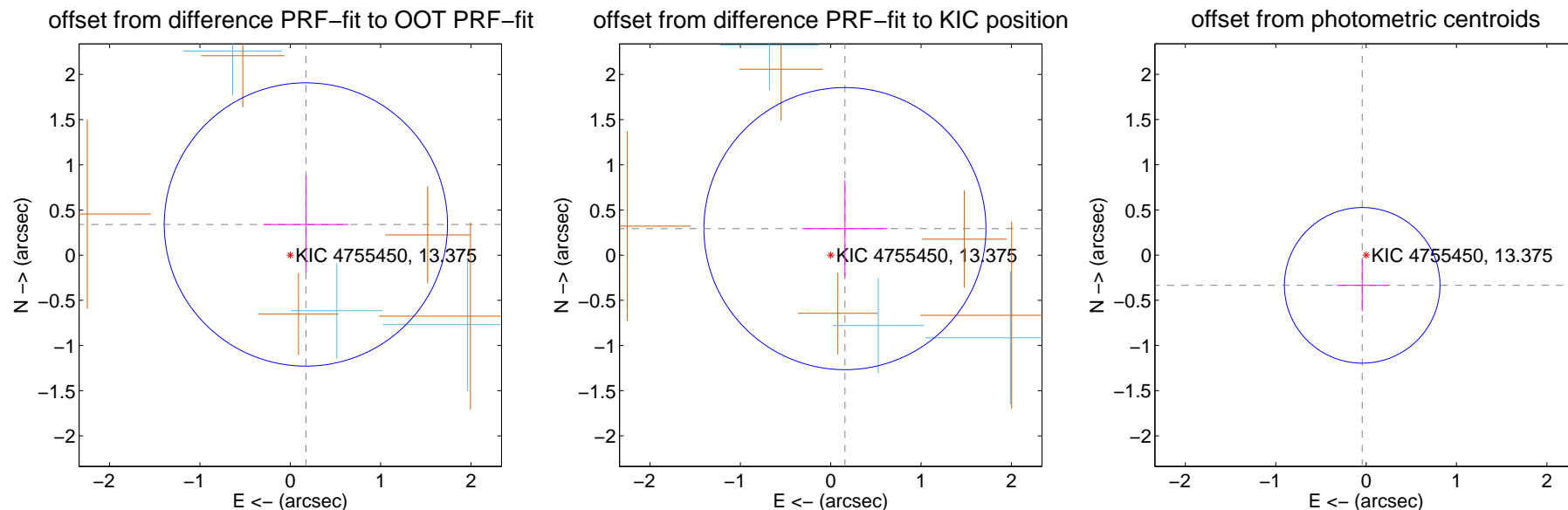
DV Centroid Data

Supplemental centroid analysis for 004755450-03. Kepler magnitude: 13.38. Transit SNR 8.24

There are 3 quarters with good PRF difference image offsets

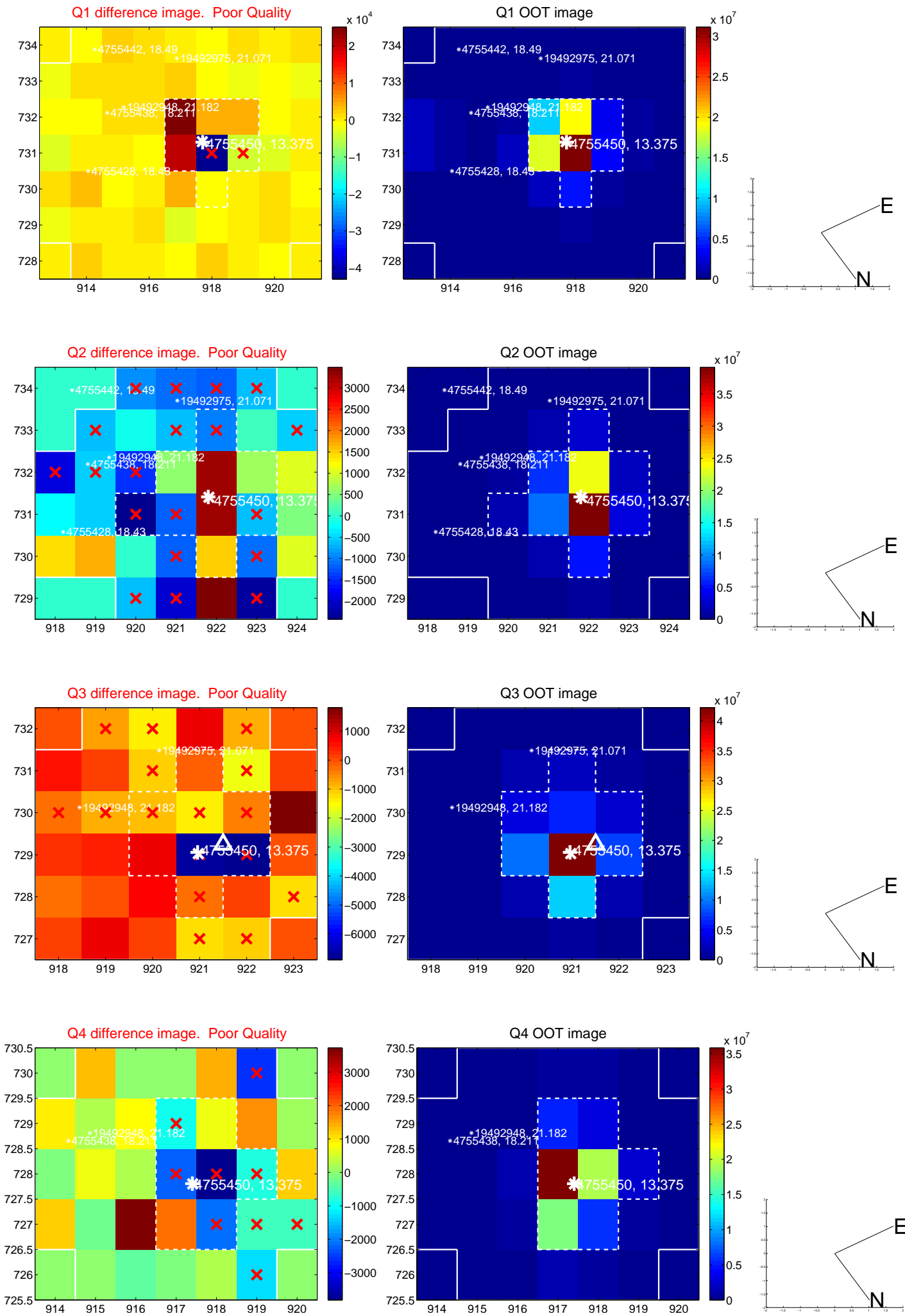
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.381 ± 0.523	0.73	-0.173 ± 0.470	0.340 ± 0.535
PRF-fit source offset from KIC position	0.333 ± 0.520	0.64	-0.157 ± 0.471	0.294 ± 0.534
photometric centroid source offset	0.34 ± 0.29	1.18	0.04 ± 0.28	-0.33 ± 0.29

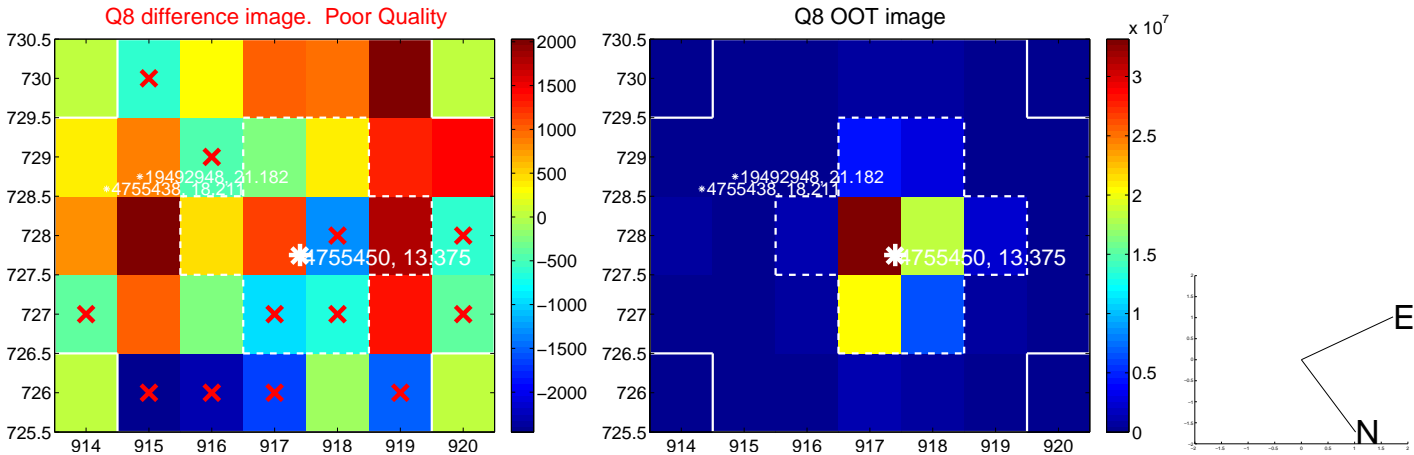
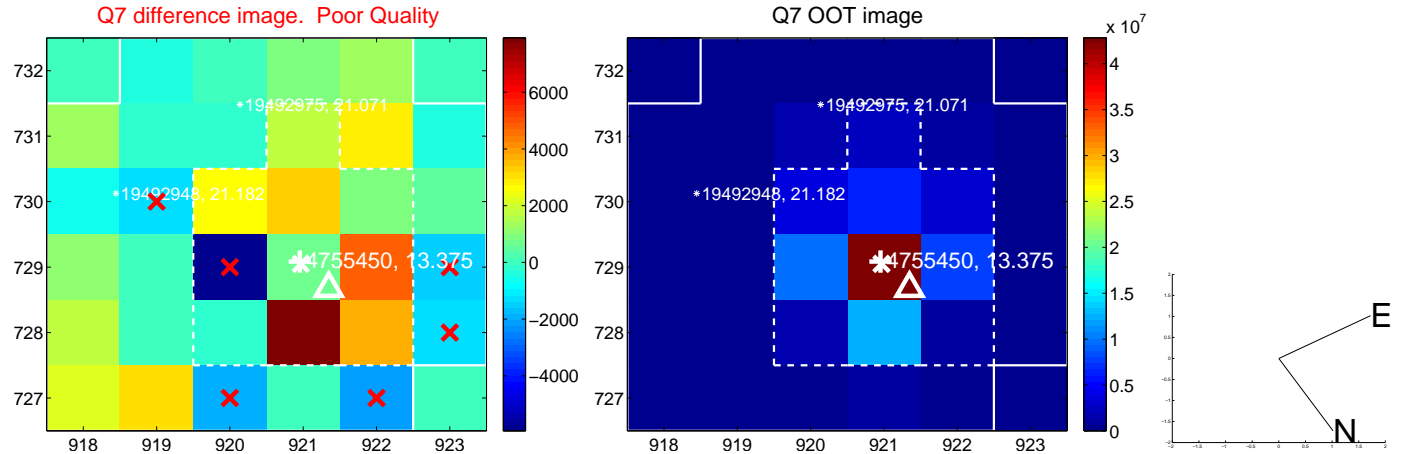
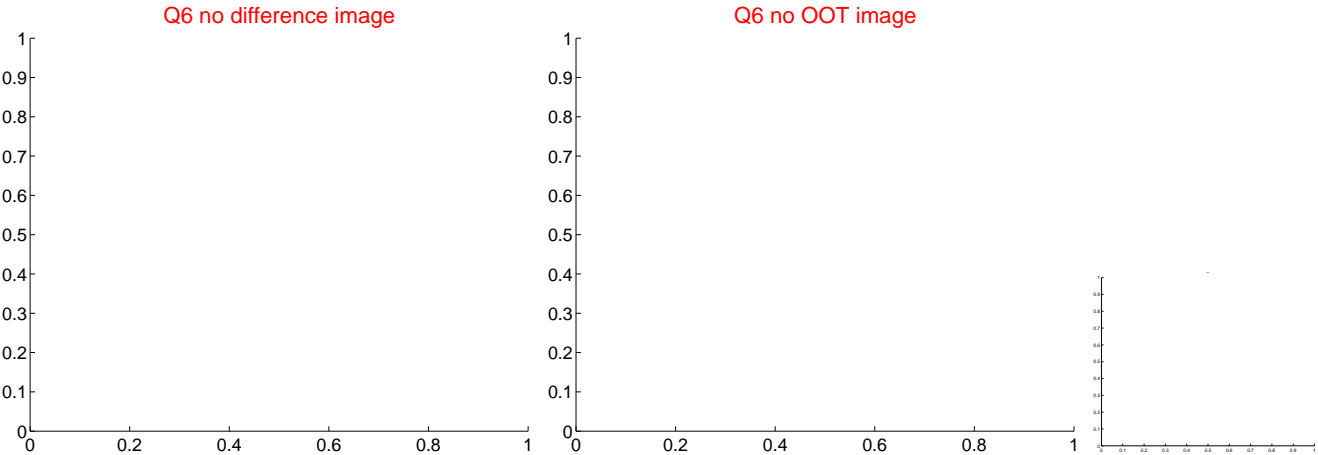
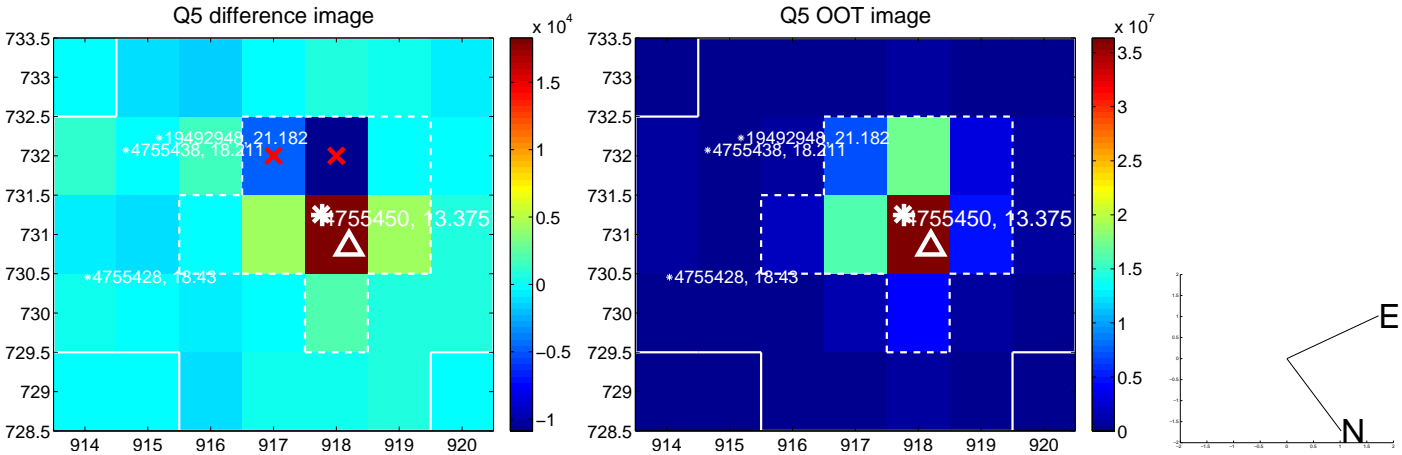


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

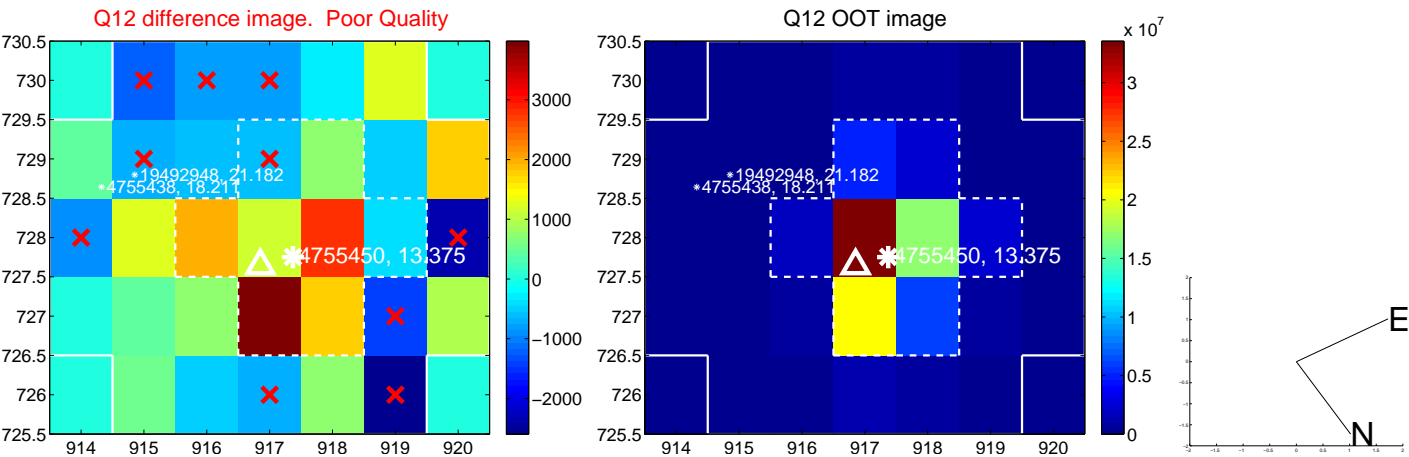
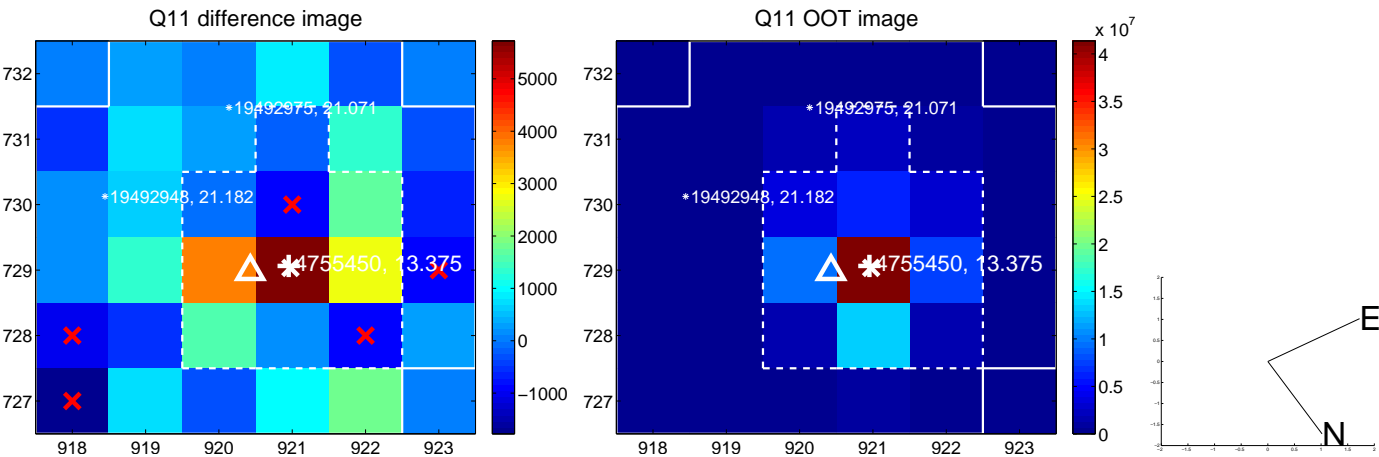
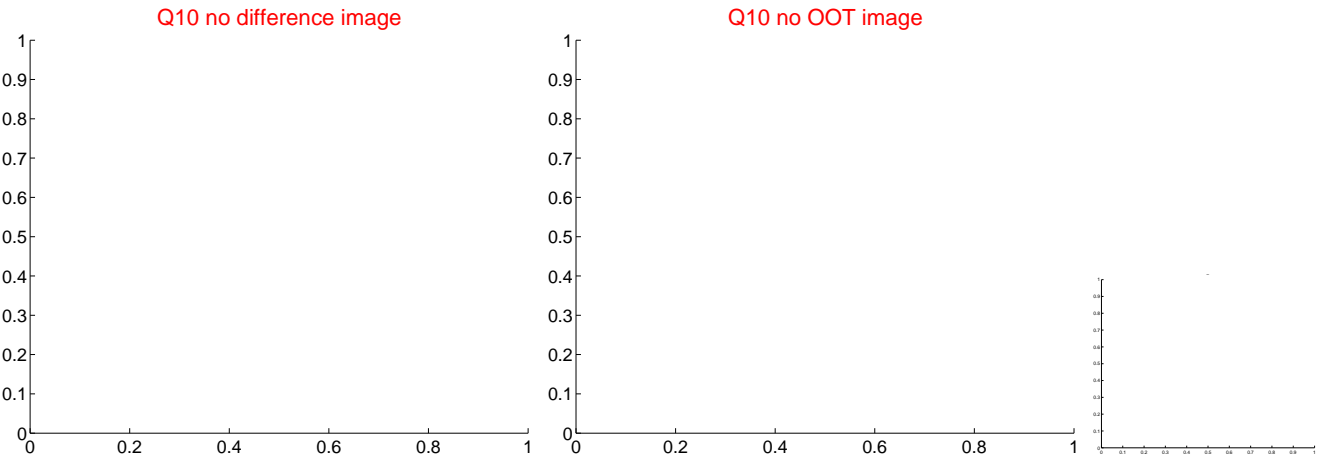
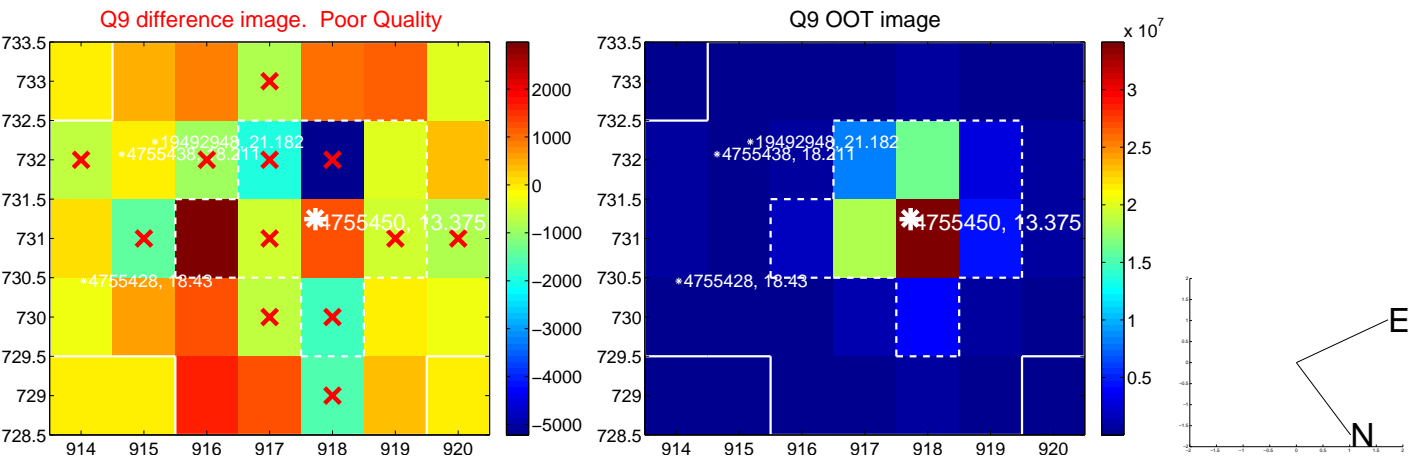
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



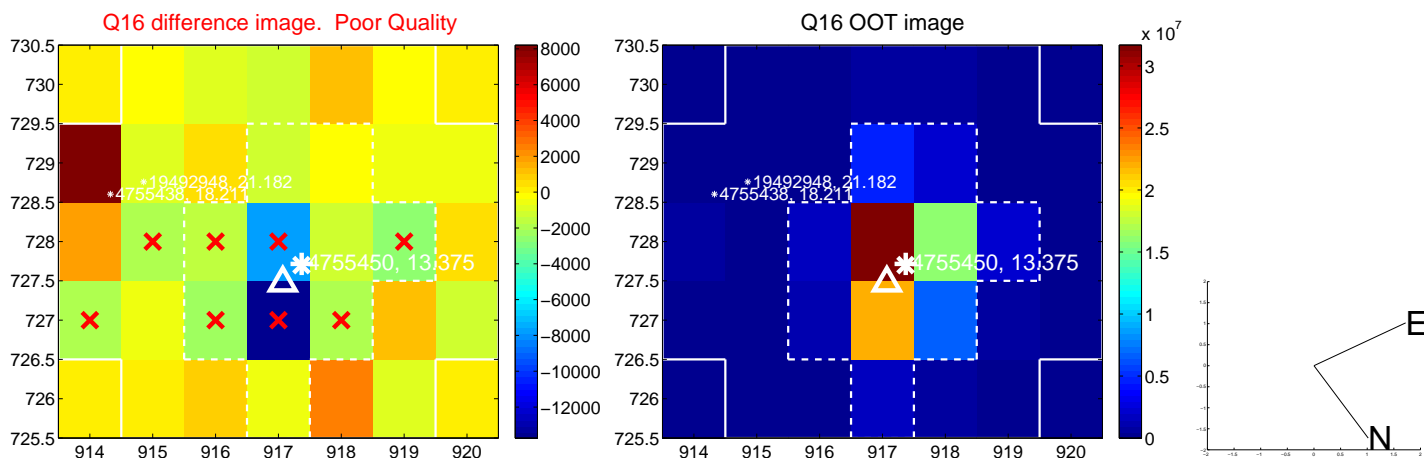
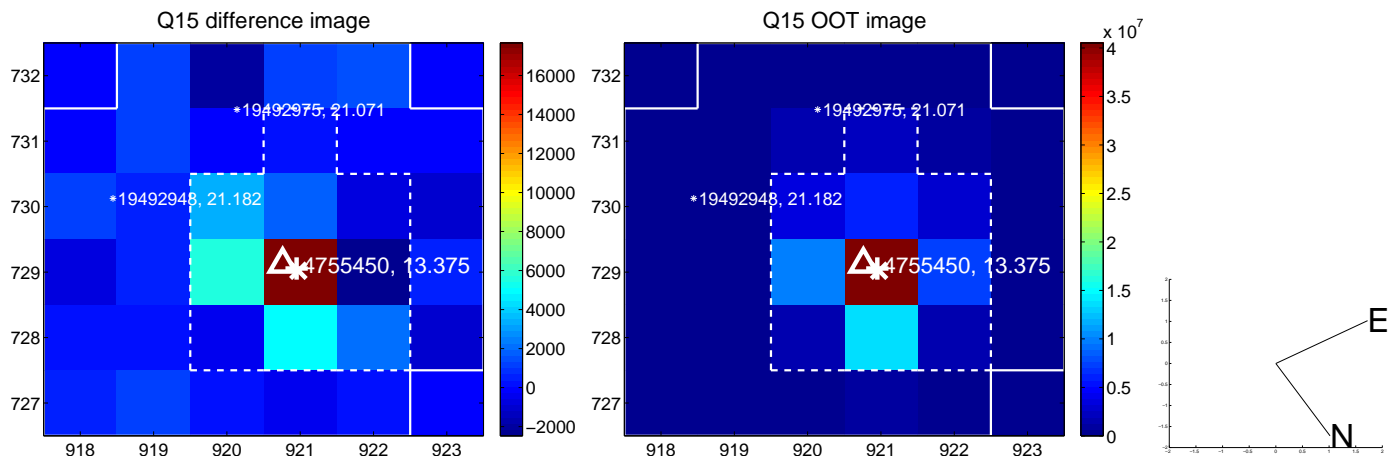
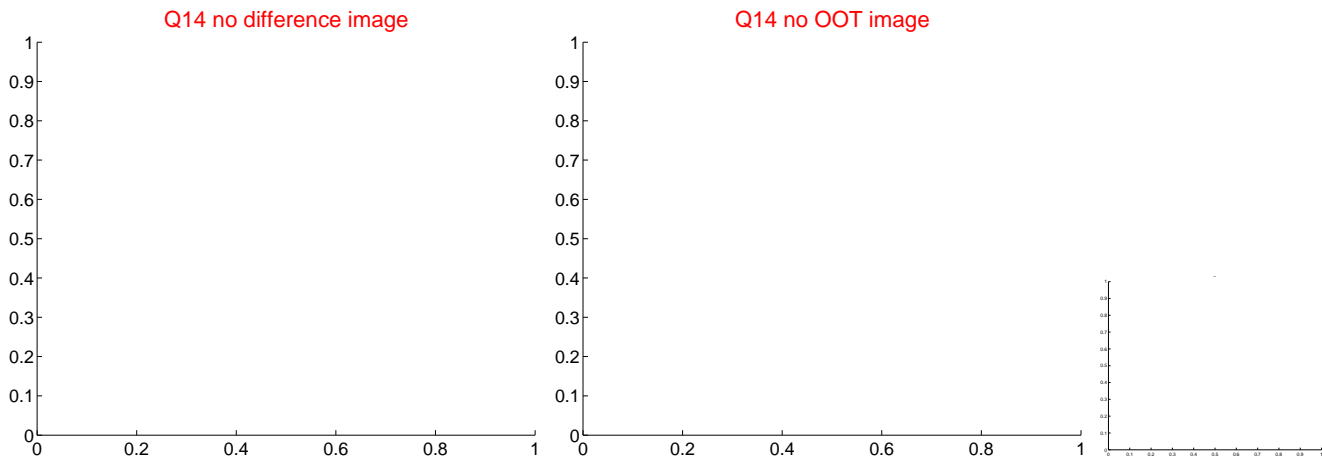
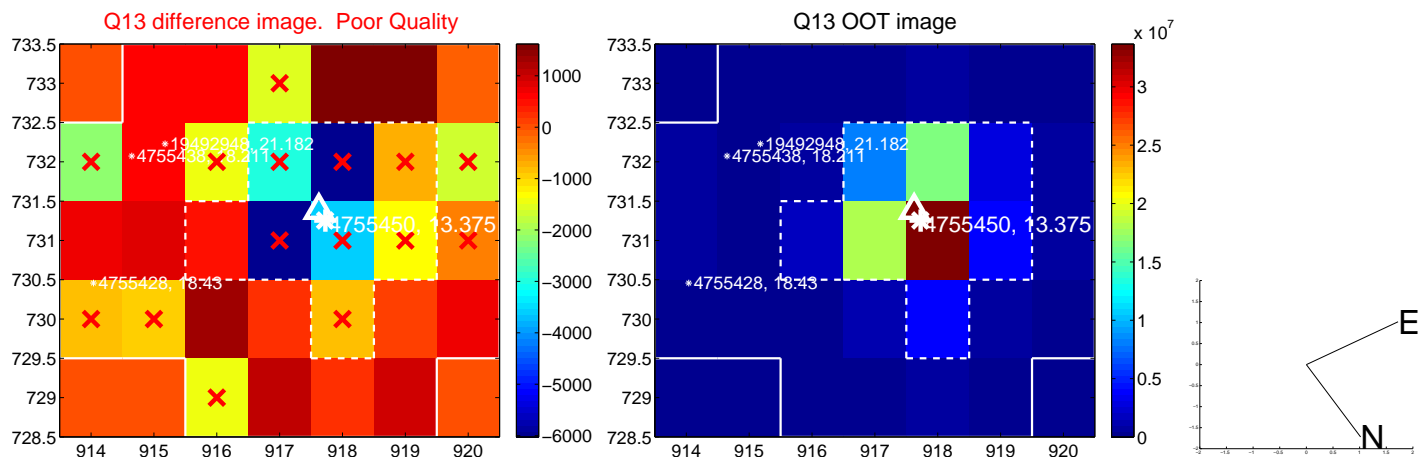
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



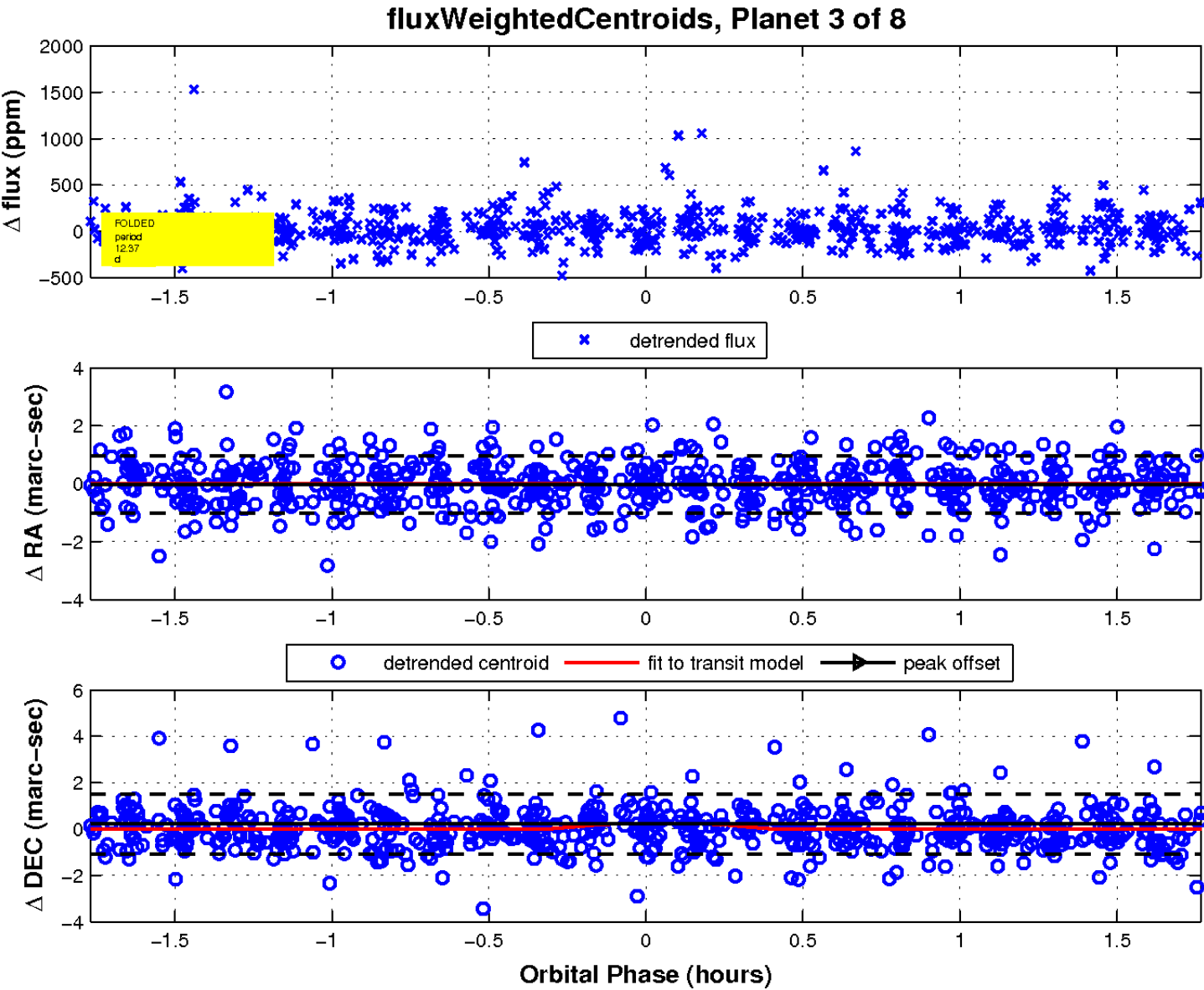
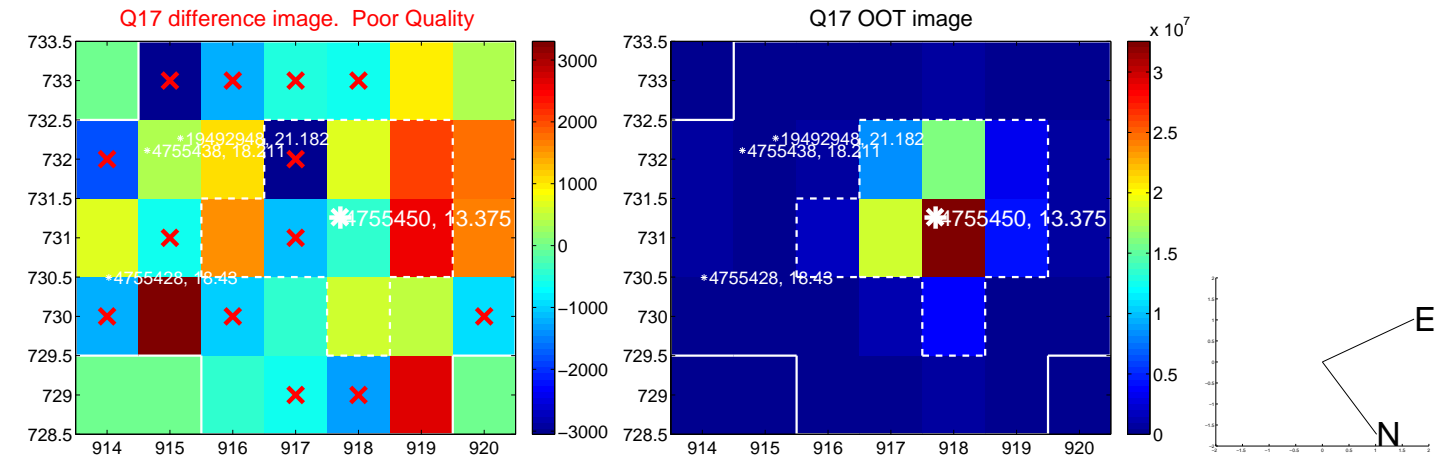
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

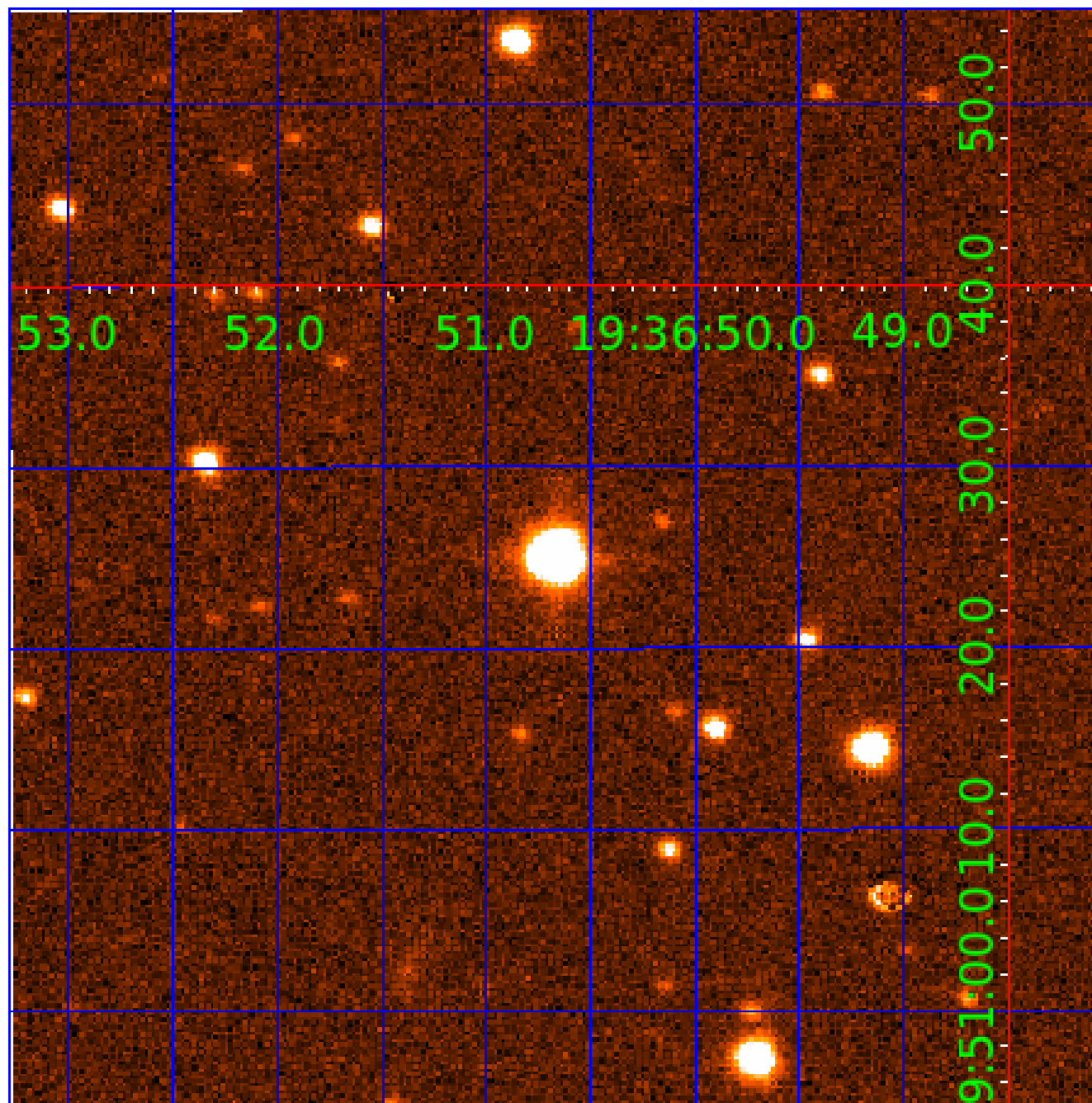


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 004755450

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})
004755450-01	OBS	No	0.507703	131.633551	21.0	3.720	7.9	9.1	1.05	6459	0.53	10550.18
004755450-02	OBS	No	19.815919	142.581805	991.3	1.250	17.0	16.5	1.05	6459	3.36	79.69
004755450-03	OBS	No	12.369838	138.856659	793.8	0.590	12.4	8.2	1.05	6459	3.26	149.37
004755450-04	OBS	No	7.125213	137.447743	721.4	0.957	12.4	14.5	1.05	6459	2.92	311.66
004755450-05	OBS	No	23.881304	131.829472	1382.3	0.701	11.7	15.3	1.05	6459	4.00	62.13
004755450-06	OBS	No	8.207509	137.955301	305.4	2.164	9.0	8.6	1.05	6459	1.85	258.10
004755450-07	OBS	No	7.947327	136.314372	477.7	1.843	11.3	10.3	1.05	6459	2.38	269.43
004755450-08	OBS	No	10.721633	139.666006	640.6	1.001	12.5	11.9	1.05	6459	2.87	180.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004755450-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS
004755450-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
004755450-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—CENT_FEW_DIFFS—HALO_GHOST
004755450-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

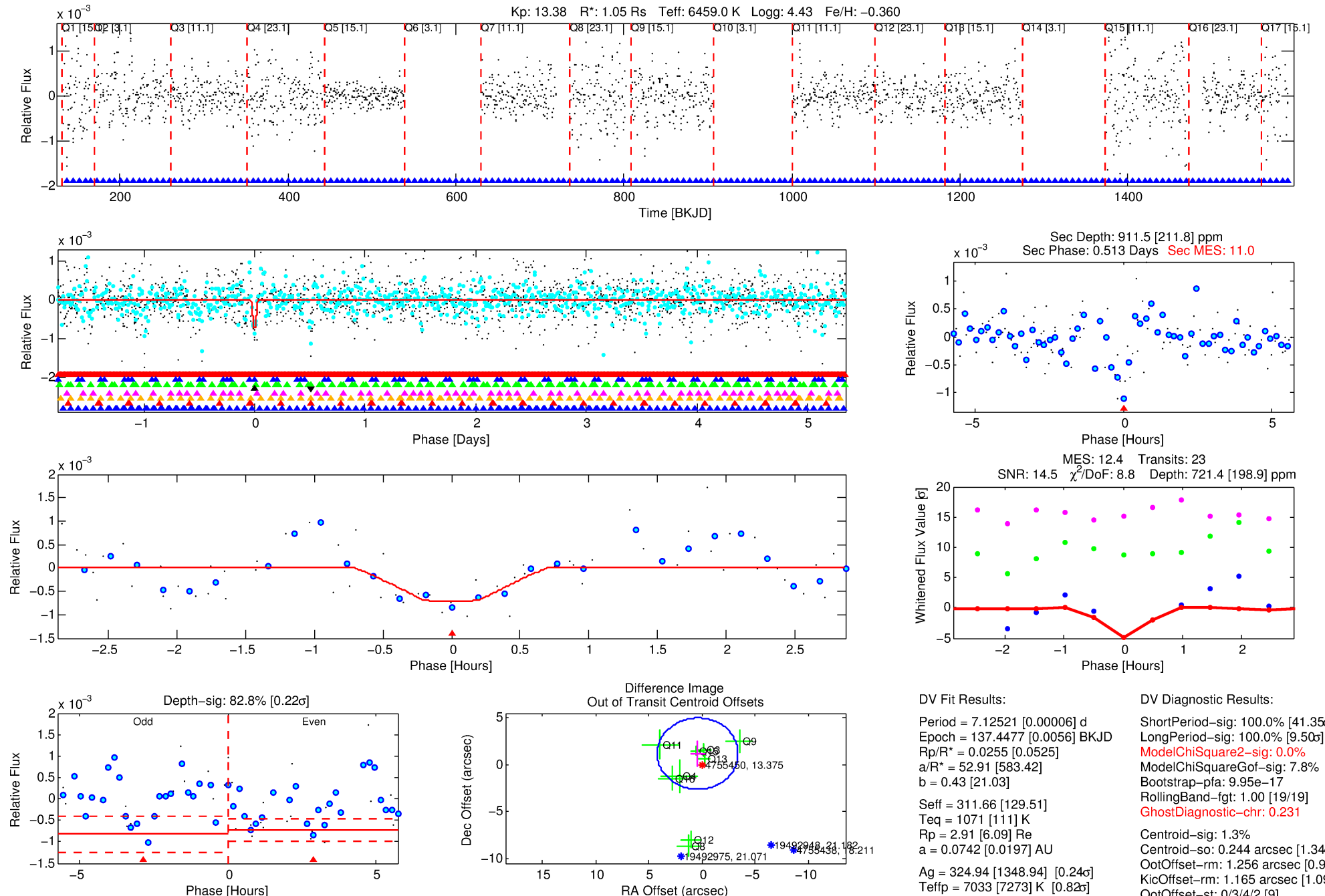
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004755450-04

No Significant Match Found

DV One-Page Summary

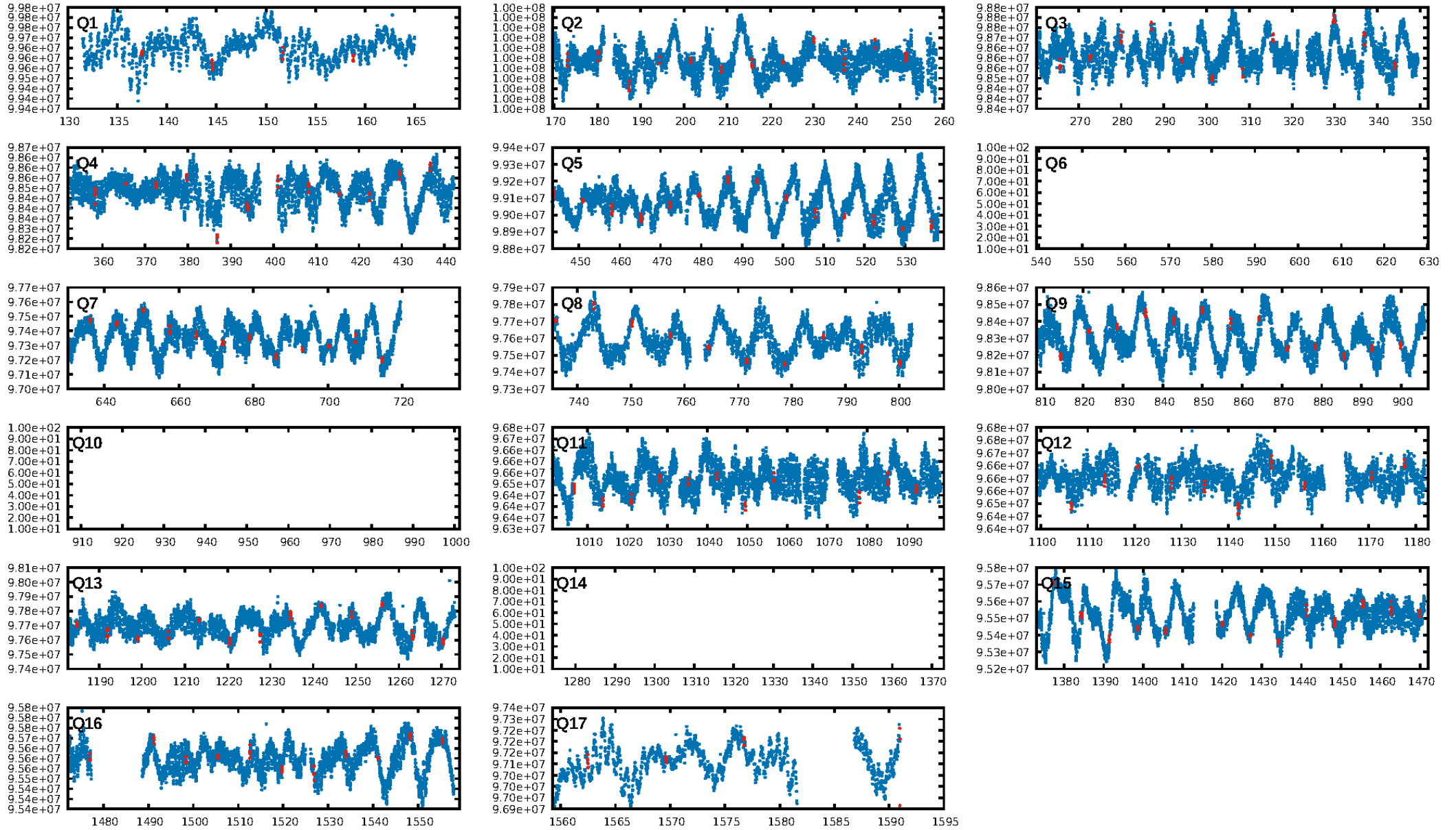
KIC: 4755450 Candidate: 4 of 8 Period: 7.125 d



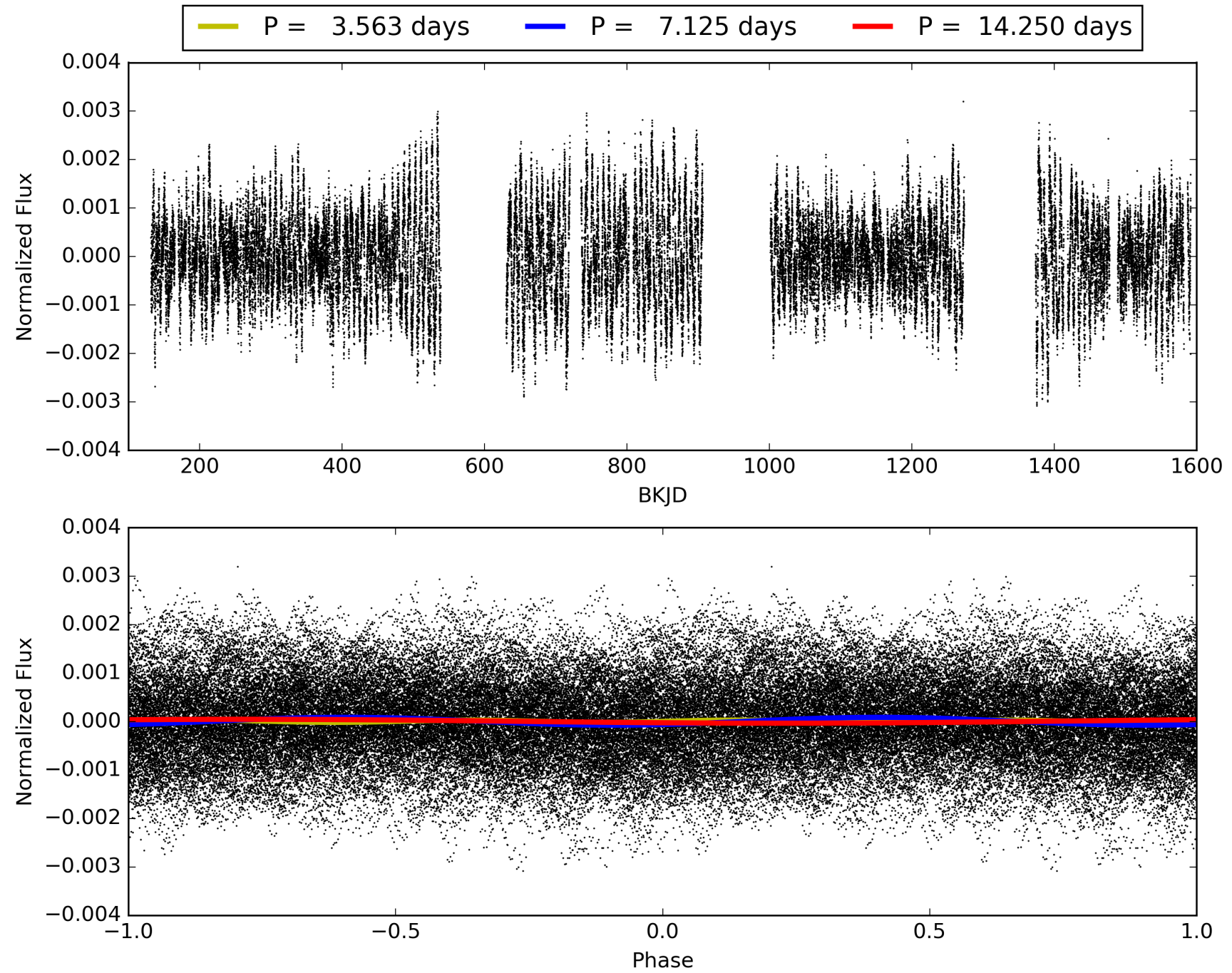
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 05:14:43 Z

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

TCE 004755450-04, PDC Light Curves

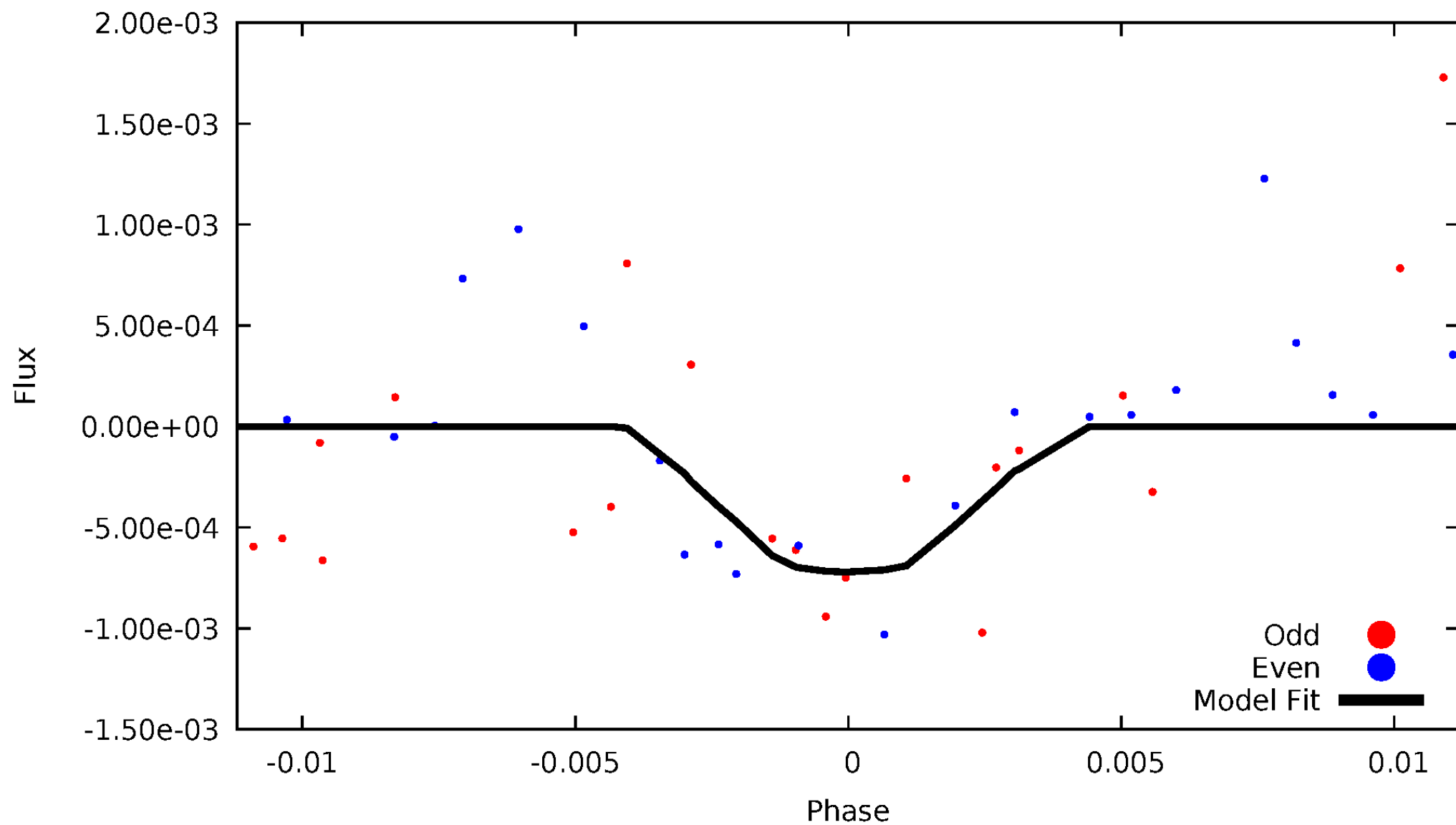


TCE 004755450-04



DV Odd/Even

TCE 004755450-04

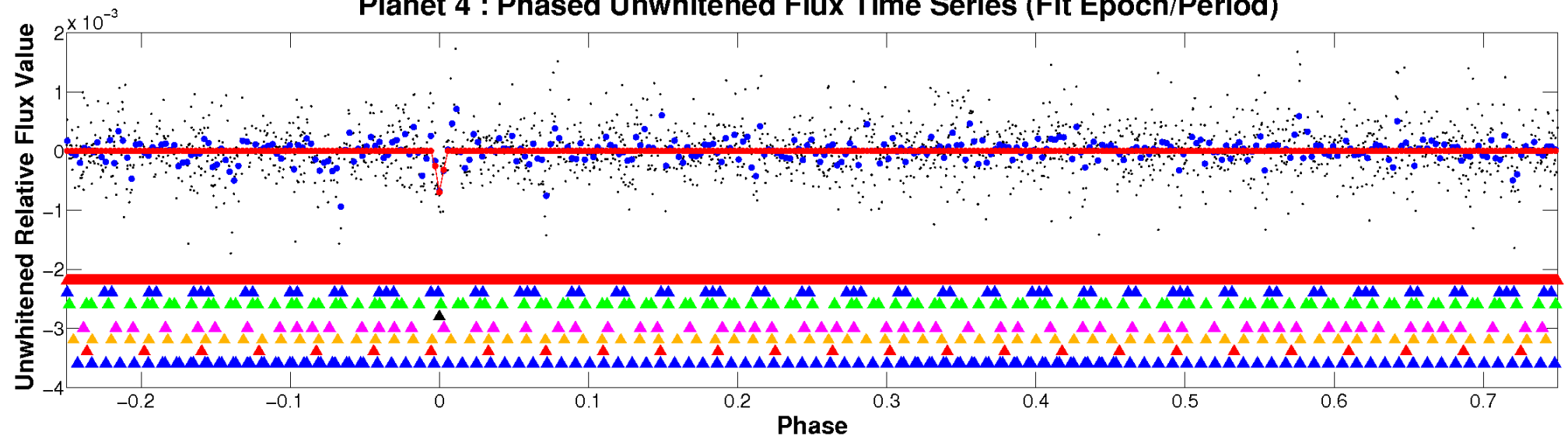


ALT Odd/Even

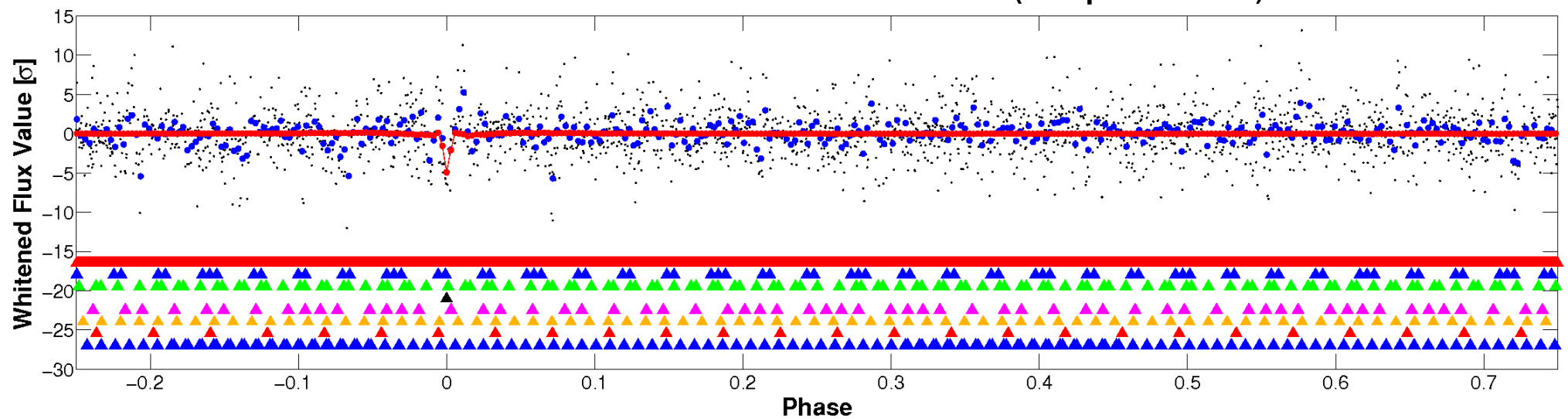
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

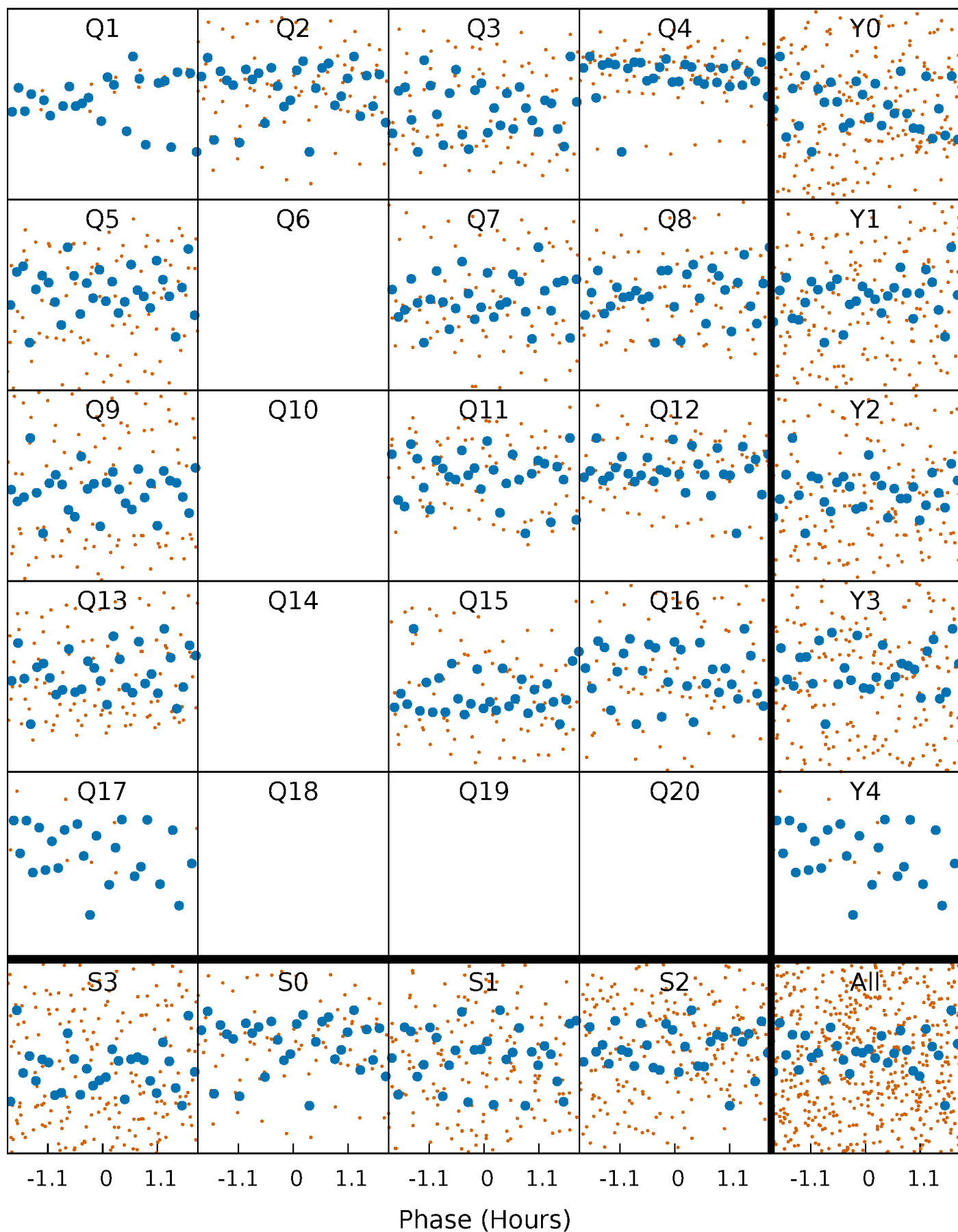


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



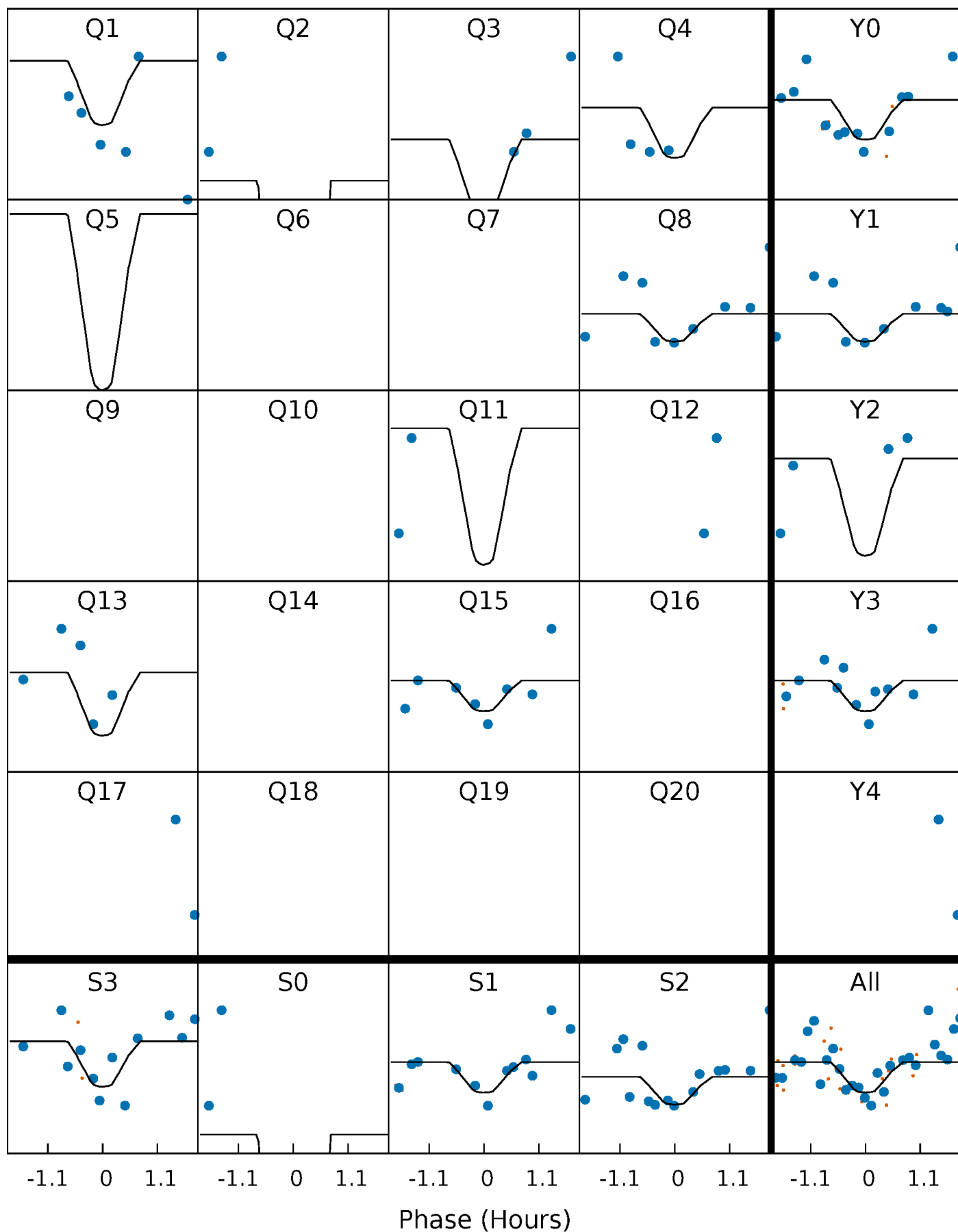
PDC Quarter-Phased Transit Curves

TCE 004755450-04 P= 7.125213 Days $T_0=137.447743$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 004755450-04 P= 7.125213 Days $T_0=137.447743$ (BKJD)

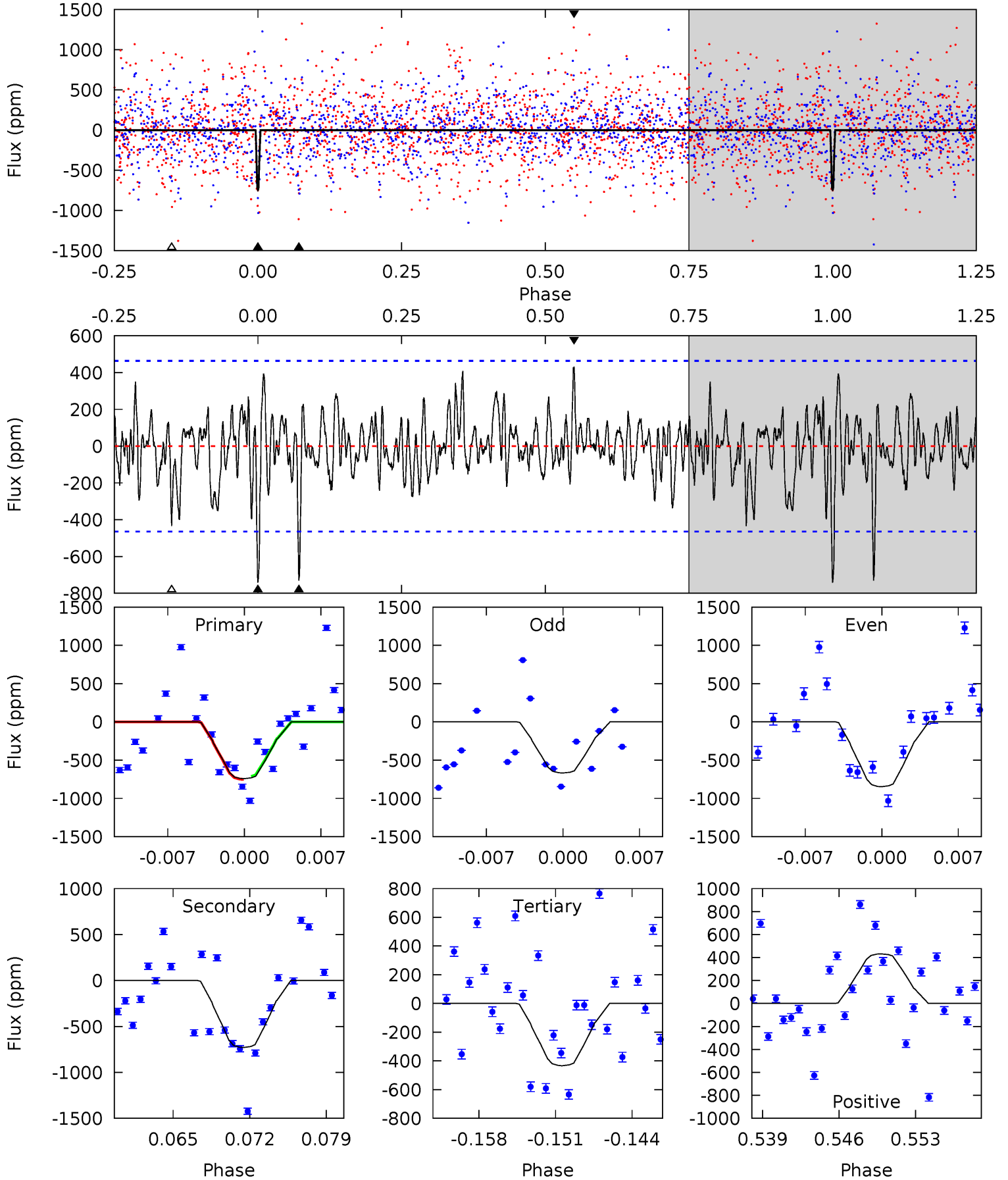


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

004755450-04, P = 7.125213 Days, E = 130.322530 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.14	8.00	4.76	4.74	5.09	2.69	1.44	3.38	3.40	3.24	3.26	0.97	1.00	0.37	0.20



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 004755450

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6459^{+181}_{-250}	$4.427^{+0.070}_{-0.210}$	$-0.360^{+0.250}_{-0.350}$	$1.049^{+0.333}_{-0.133}$	$1.071^{+0.161}_{-0.146}$	$1.306^{+0.385}_{-0.710}$
	+3%/-4%	+2%/-5%	+69%/-97%	+32%/-13%	+15%/-14%	+29%/-54%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 004755450-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-730 ± 91	$5.59^{+5.26}_{-3.86}$	1521^{+113}_{-85}	4916^{+4587}_{-1077}	70^{+689}_{-52}
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 $A_{\text{obs}} \gg 1.0$

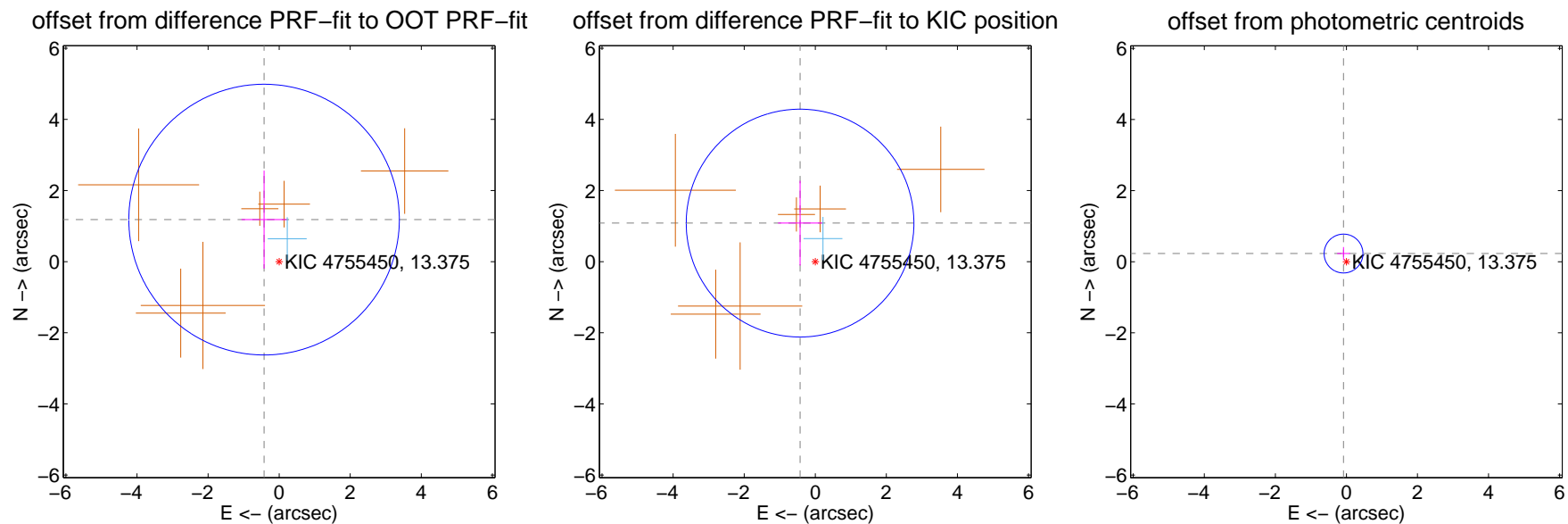
DV Centroid Data

Supplemental centroid analysis for 004755450-04. Kepler magnitude: 13.38. Transit SNR 14.53

There are 1 quarters with good PRF difference image offsets

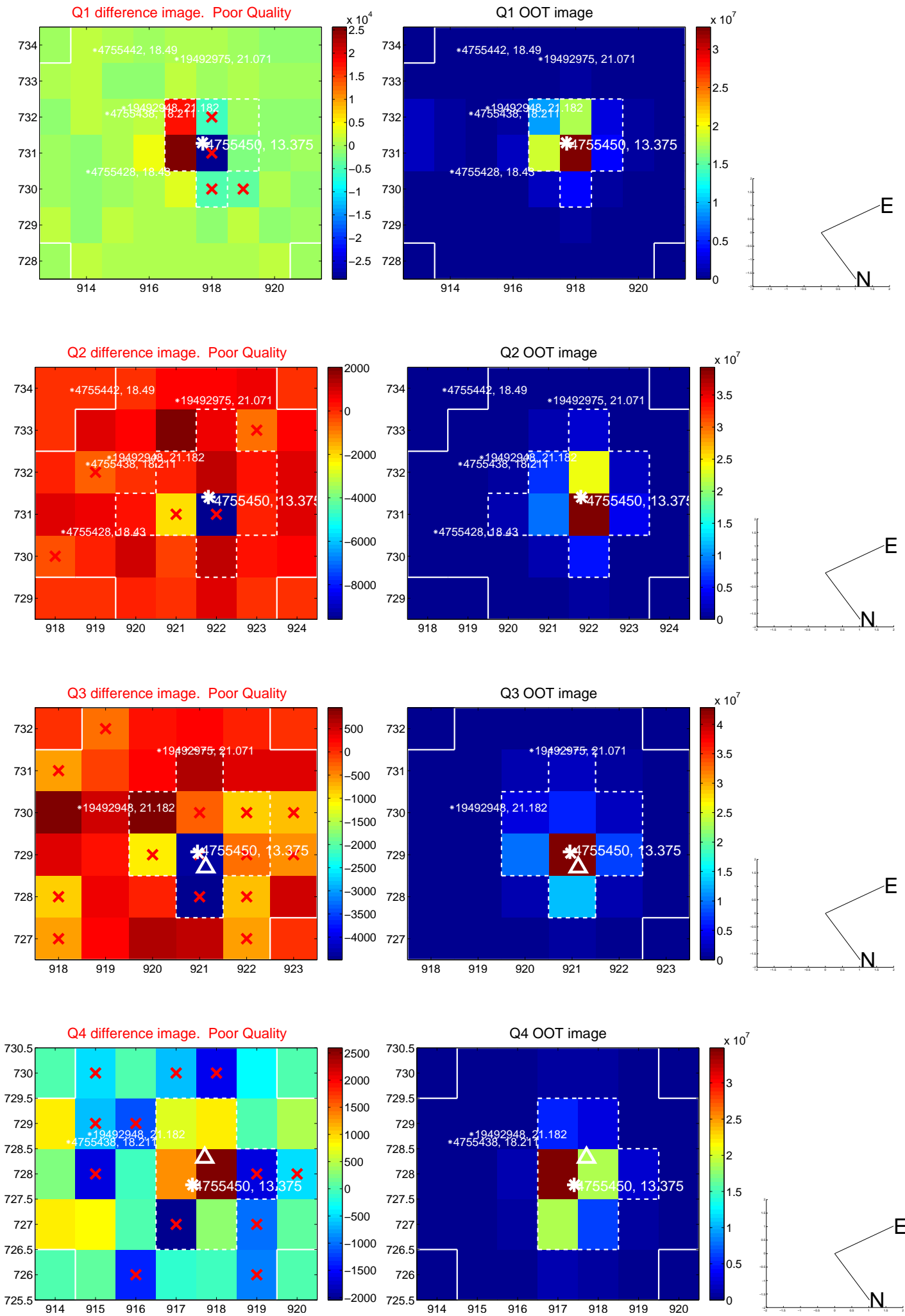
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.256 ± 1.268	0.99	0.424 ± 0.635	1.182 ± 1.378
PRF-fit source offset from KIC position	1.165 ± 1.068	1.09	0.428 ± 0.621	1.084 ± 1.192
photometric centroid source offset	0.24 ± 0.18	1.34	0.08 ± 0.18	0.23 ± 0.18

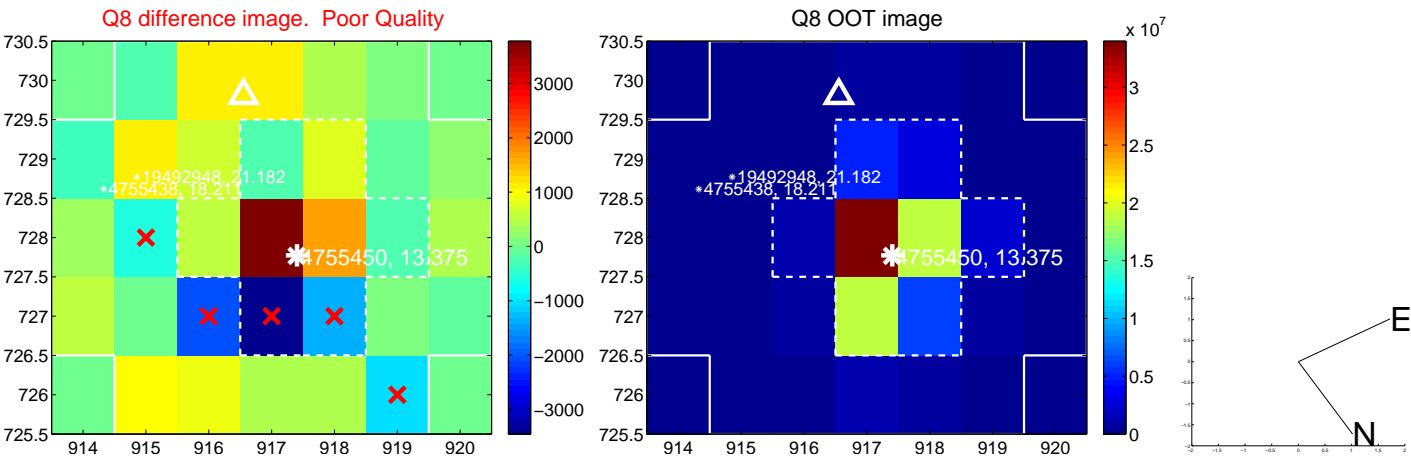
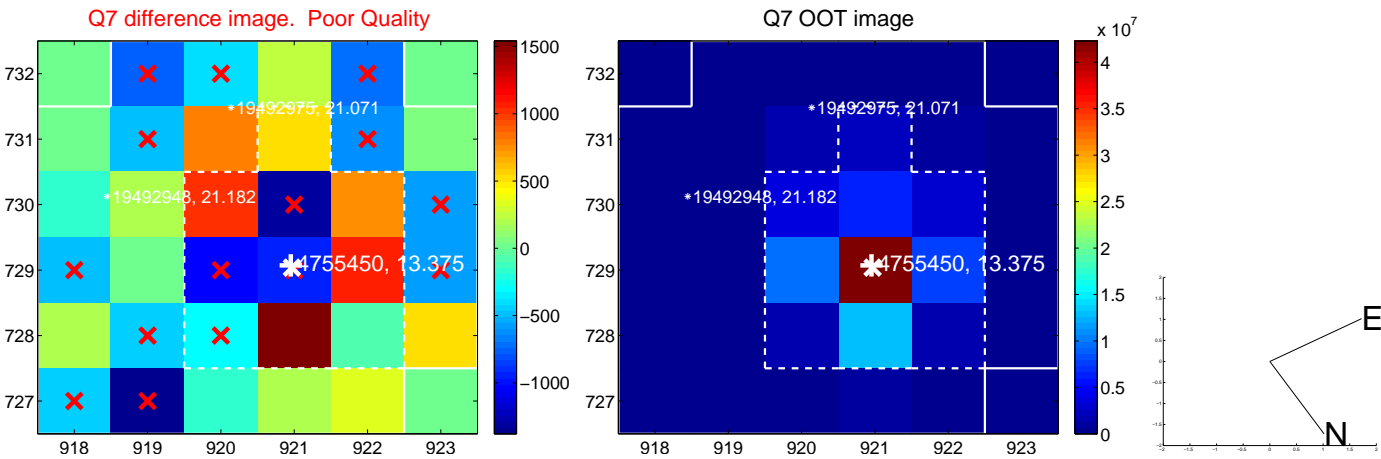
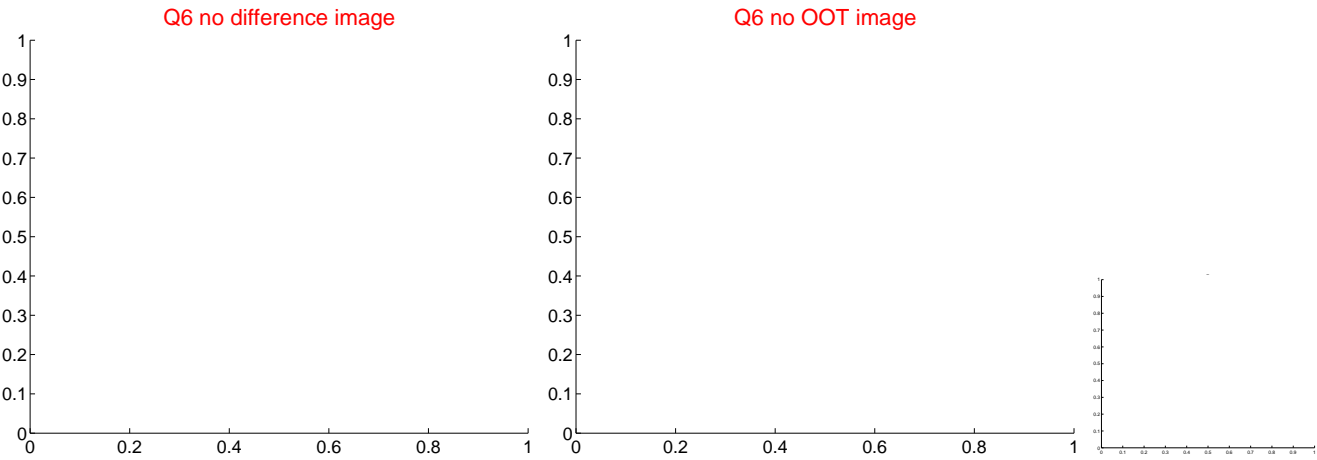
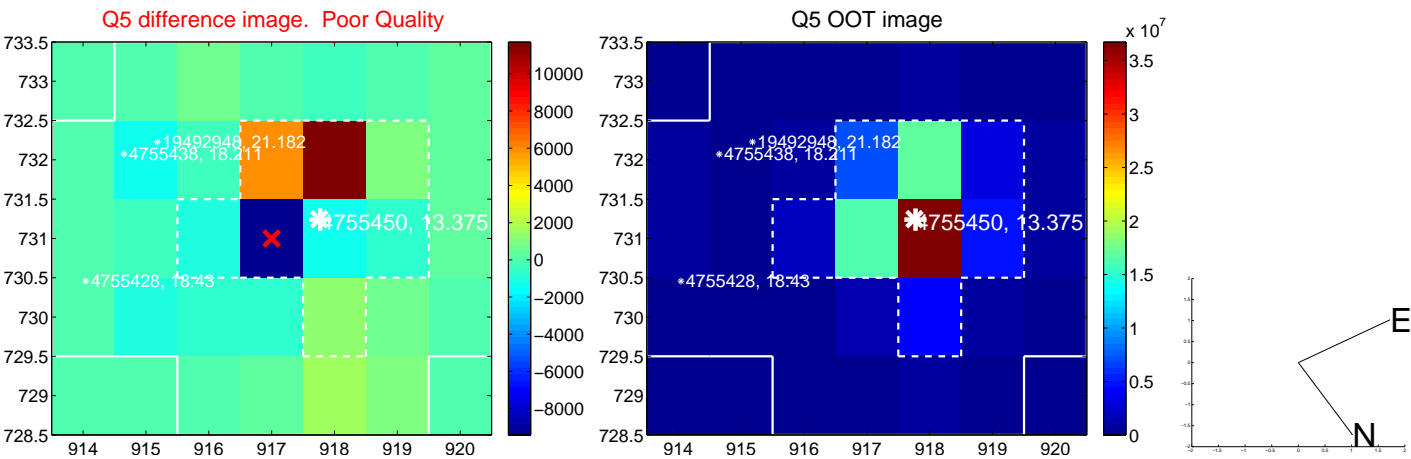


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

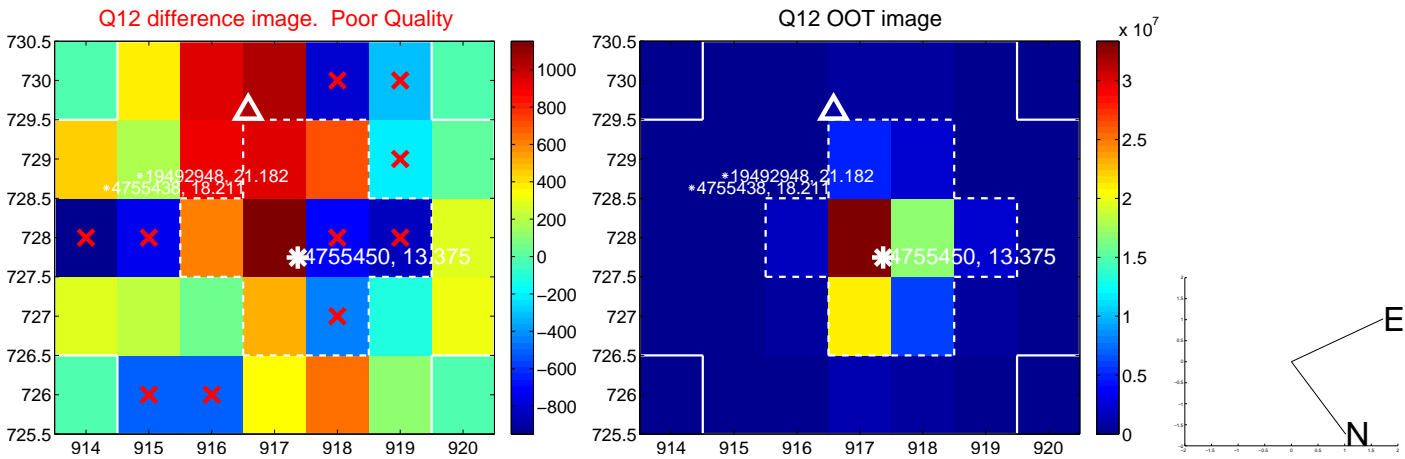
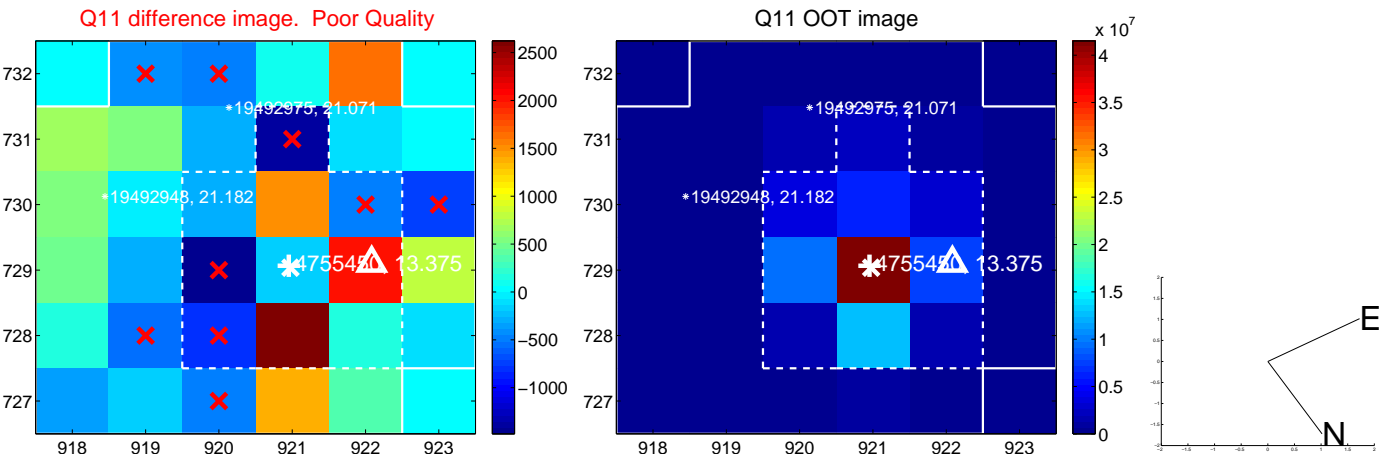
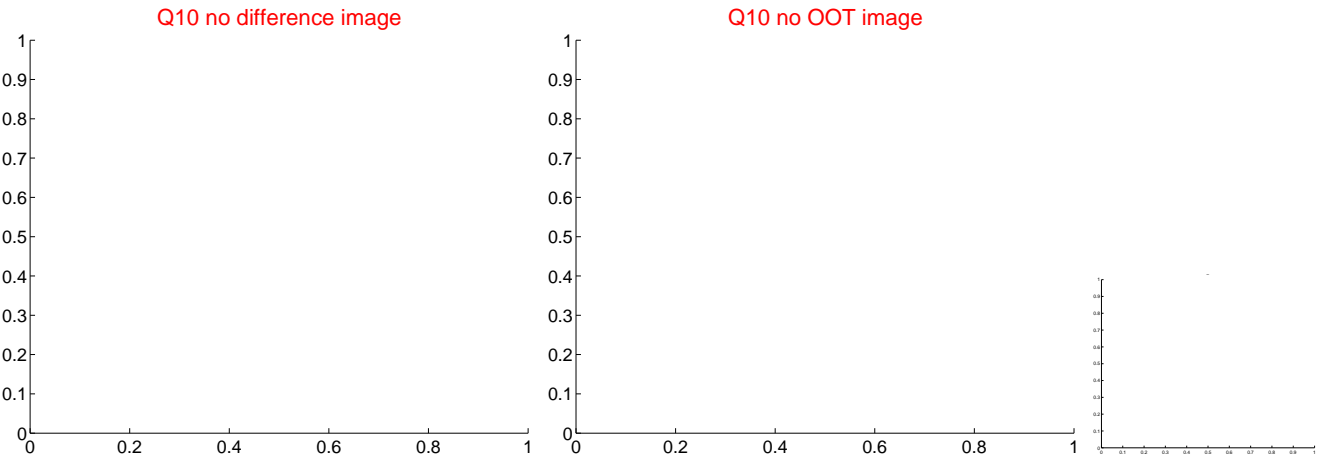
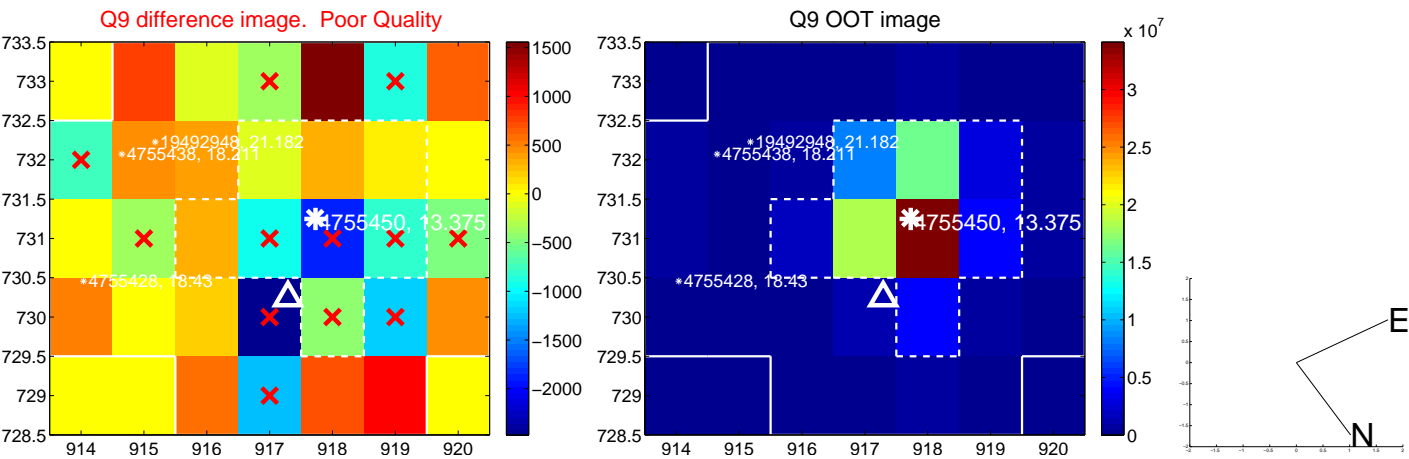
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



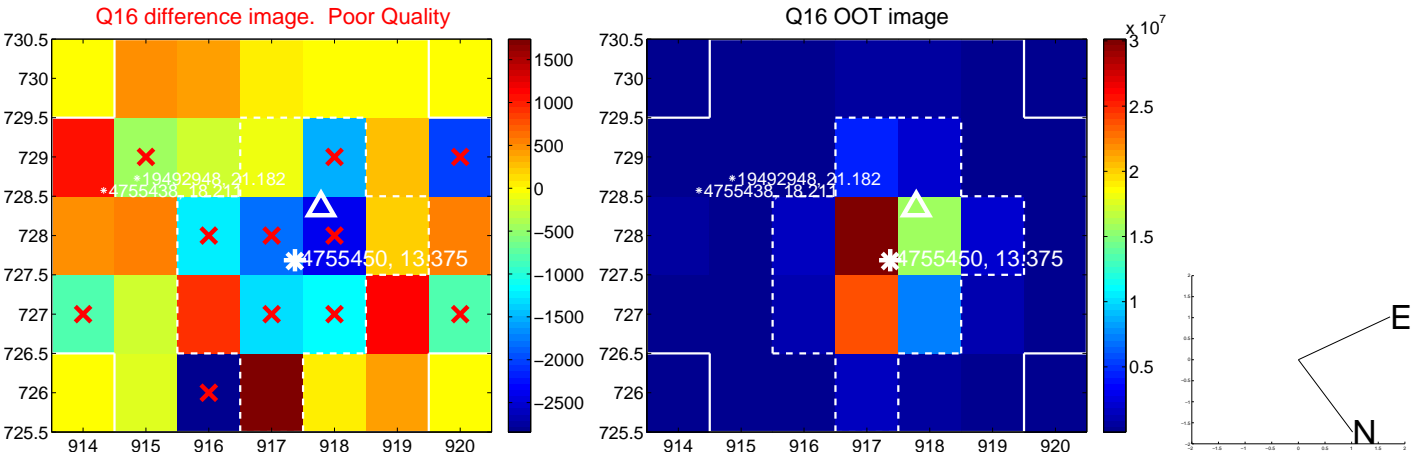
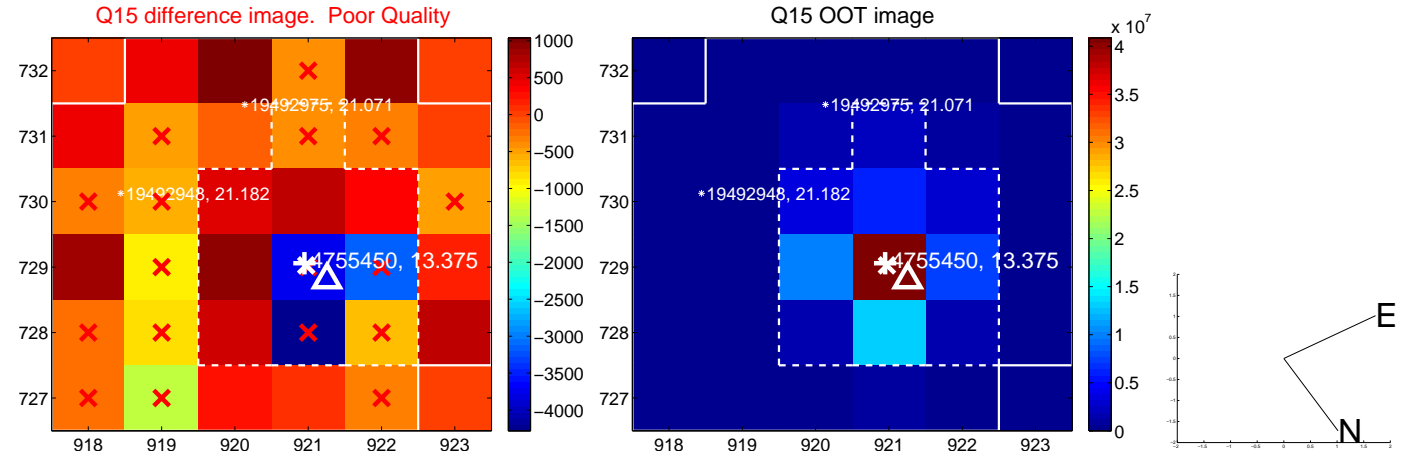
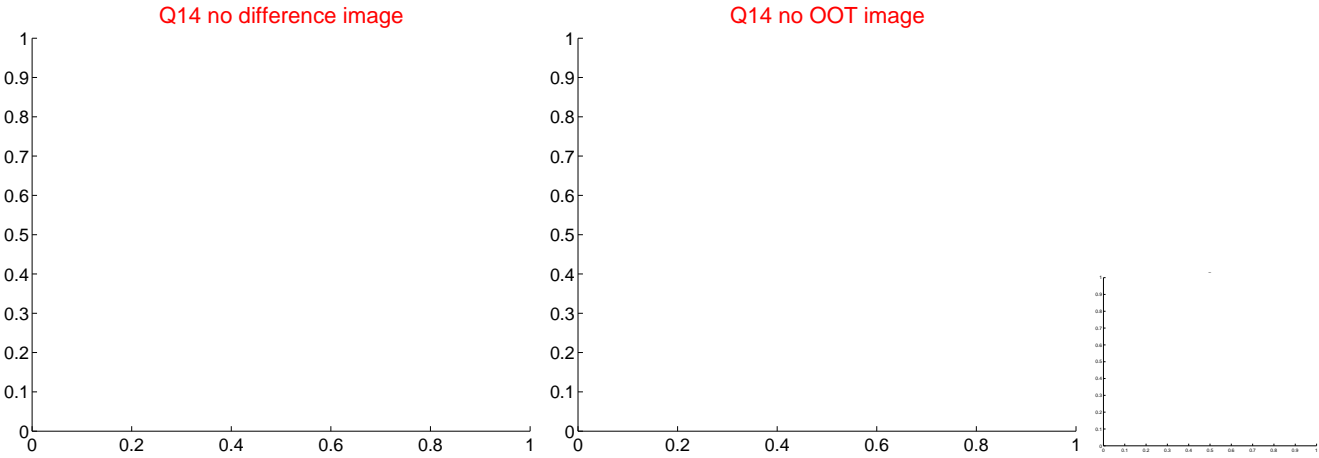
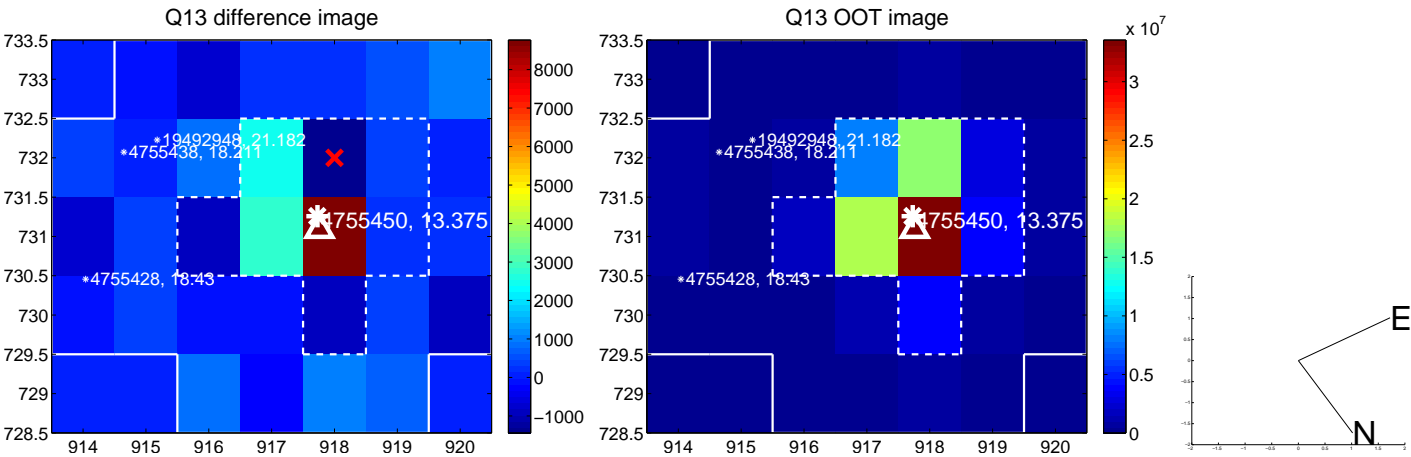
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



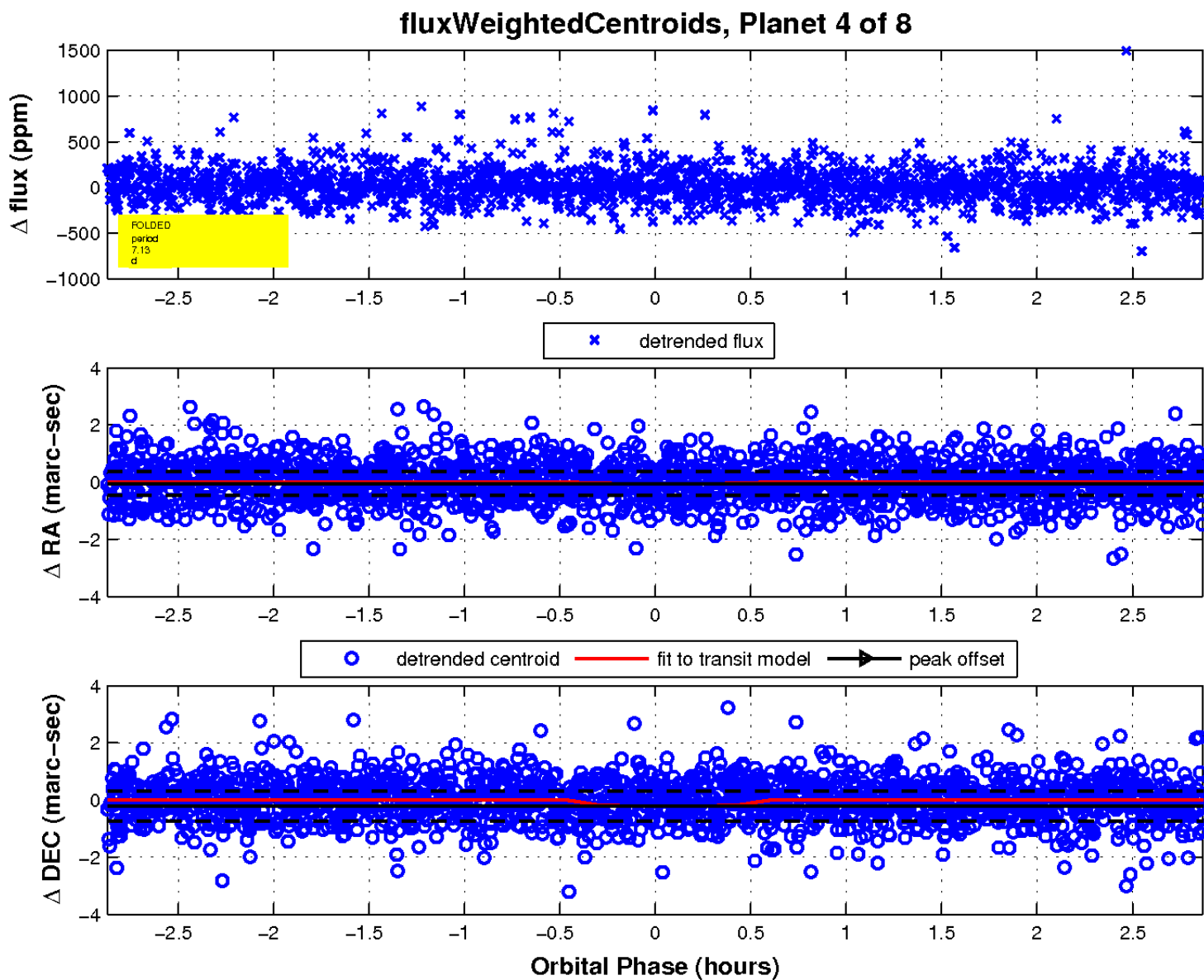
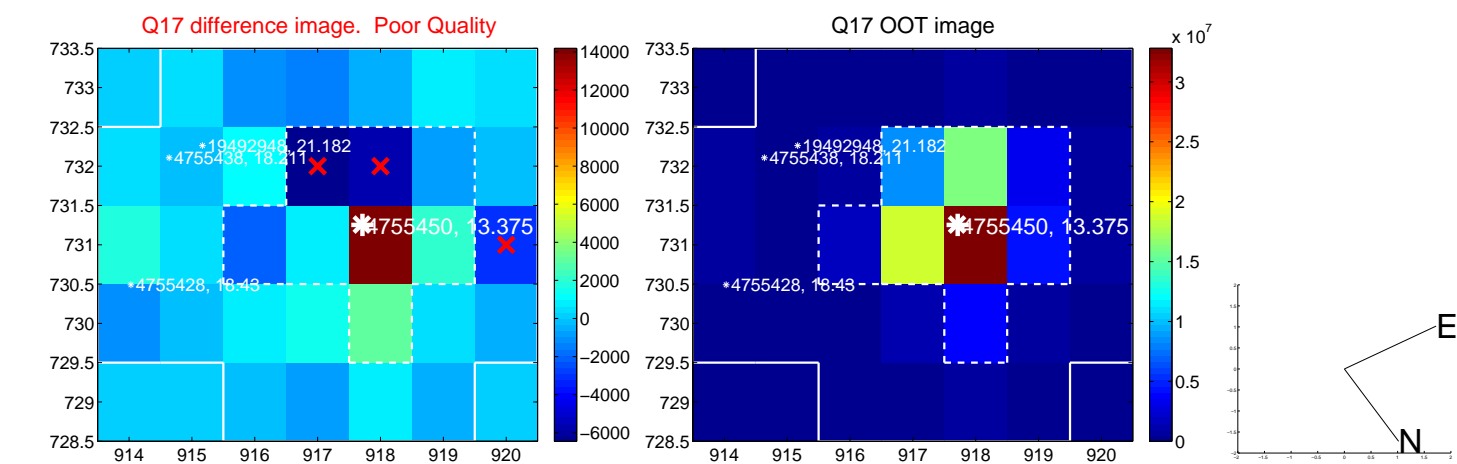
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

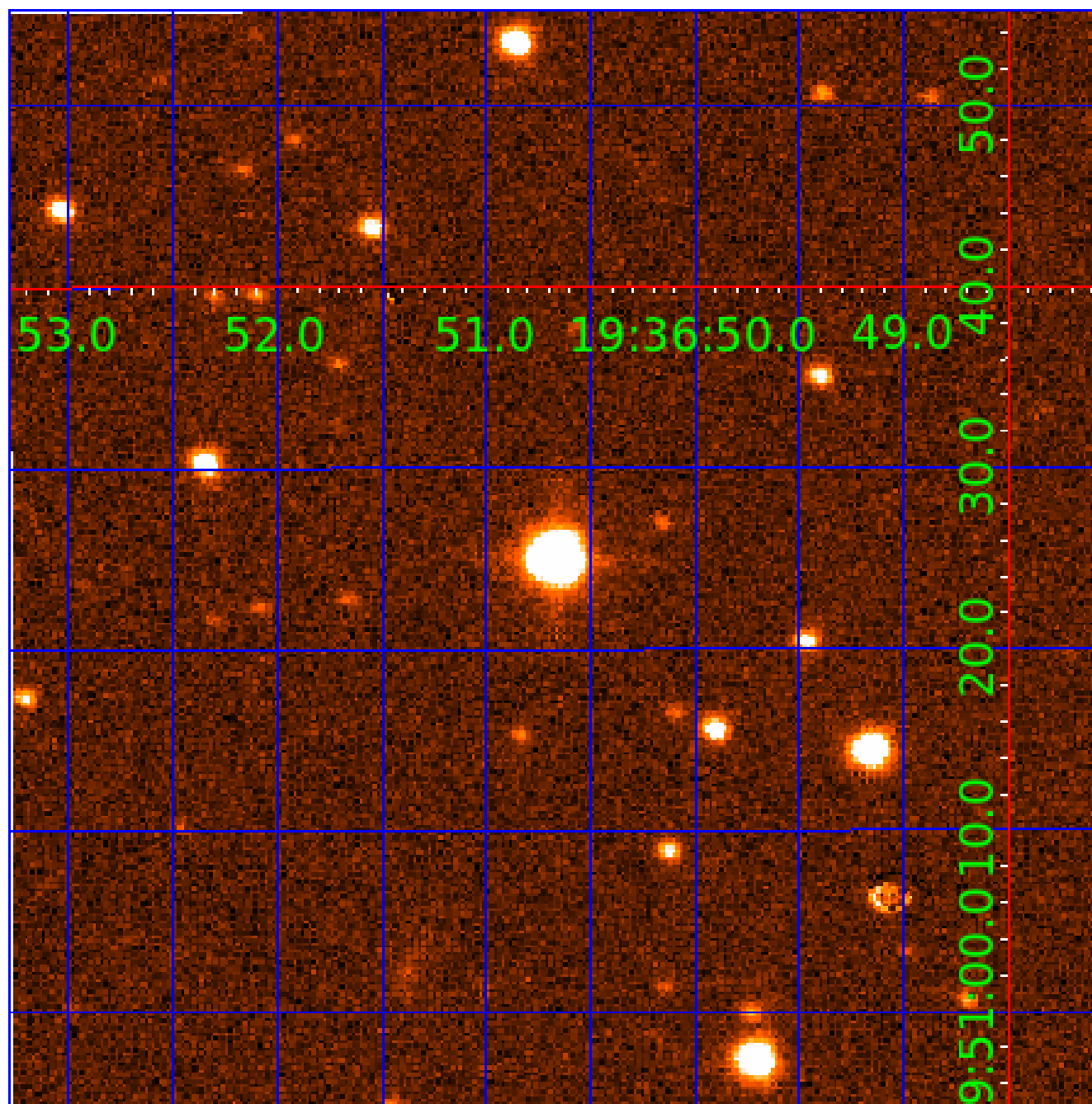


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 004755450

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})
004755450-01	OBS	No	0.507703	131.633551	21.0	3.720	7.9	9.1	1.05	6459	0.53	10550.18
004755450-02	OBS	No	19.815919	142.581805	991.3	1.250	17.0	16.5	1.05	6459	3.36	79.69
004755450-03	OBS	No	12.369838	138.856659	793.8	0.590	12.4	8.2	1.05	6459	3.26	149.37
004755450-04	OBS	No	7.125213	137.447743	721.4	0.957	12.4	14.5	1.05	6459	2.92	311.66
004755450-05	OBS	No	23.881304	131.829472	1382.3	0.701	11.7	15.3	1.05	6459	4.00	62.13
004755450-06	OBS	No	8.207509	137.955301	305.4	2.164	9.0	8.6	1.05	6459	1.85	258.10
004755450-07	OBS	No	7.947327	136.314372	477.7	1.843	11.3	10.3	1.05	6459	2.38	269.43
004755450-08	OBS	No	10.721633	139.666006	640.6	1.001	12.5	11.9	1.05	6459	2.87	180.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004755450-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS
004755450-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
004755450-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—CENT_FEW_DIFFS—HALO_GHOST
004755450-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

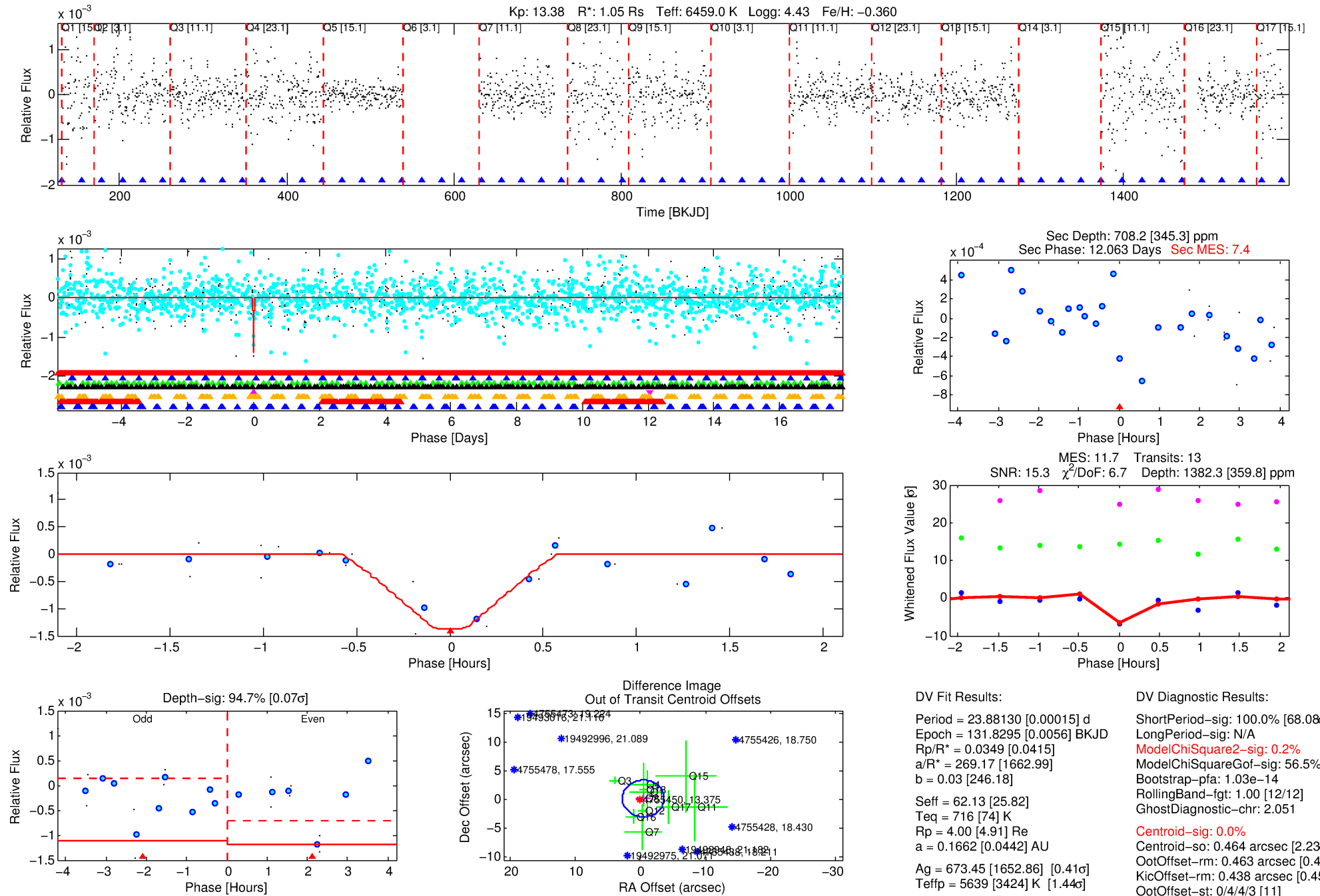
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004755450-05

No Significant Match Found

DV One-Page Summary

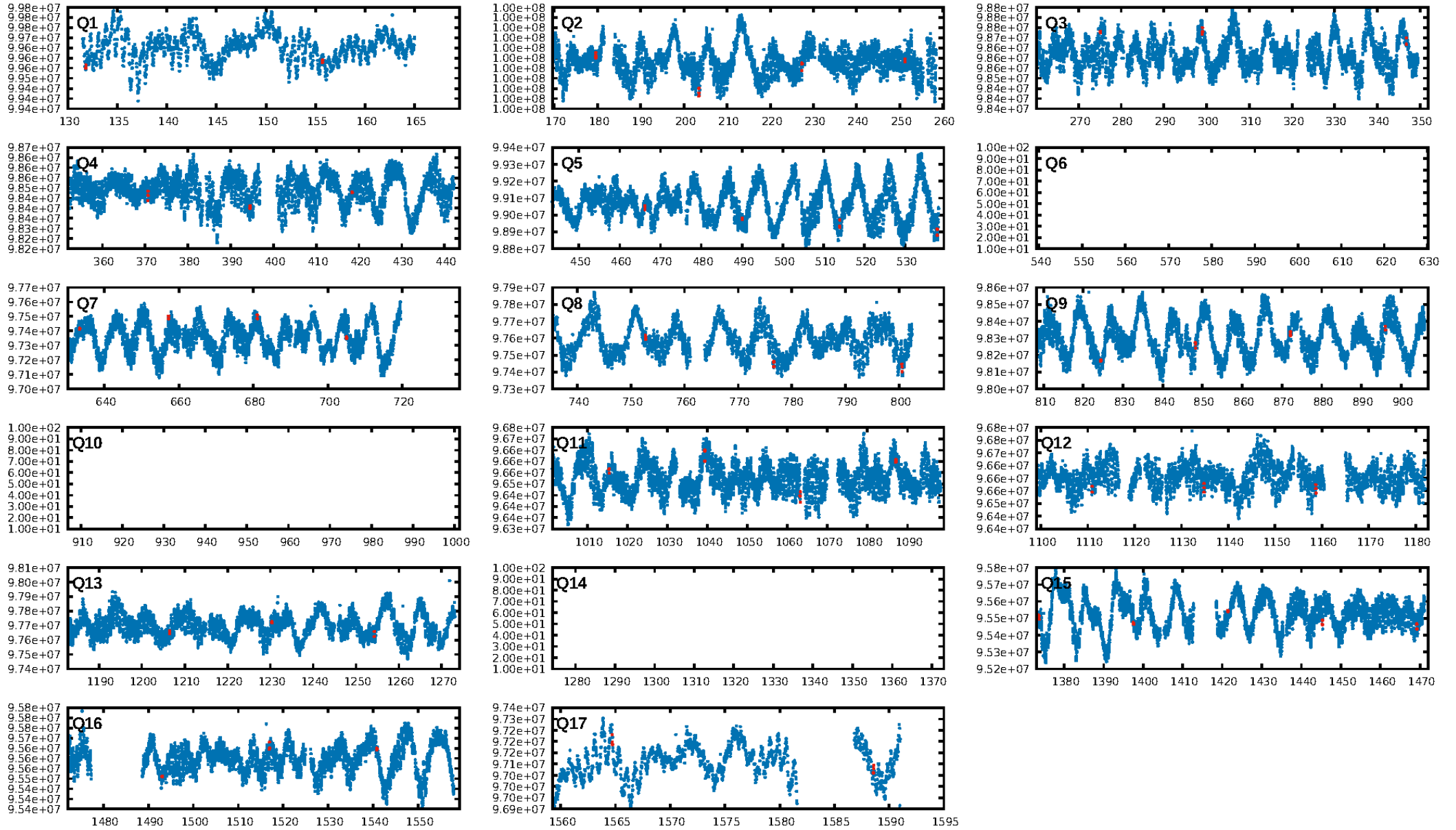
KIC: 4755450 Candidate: 5 of 8 Period: 23.881 d



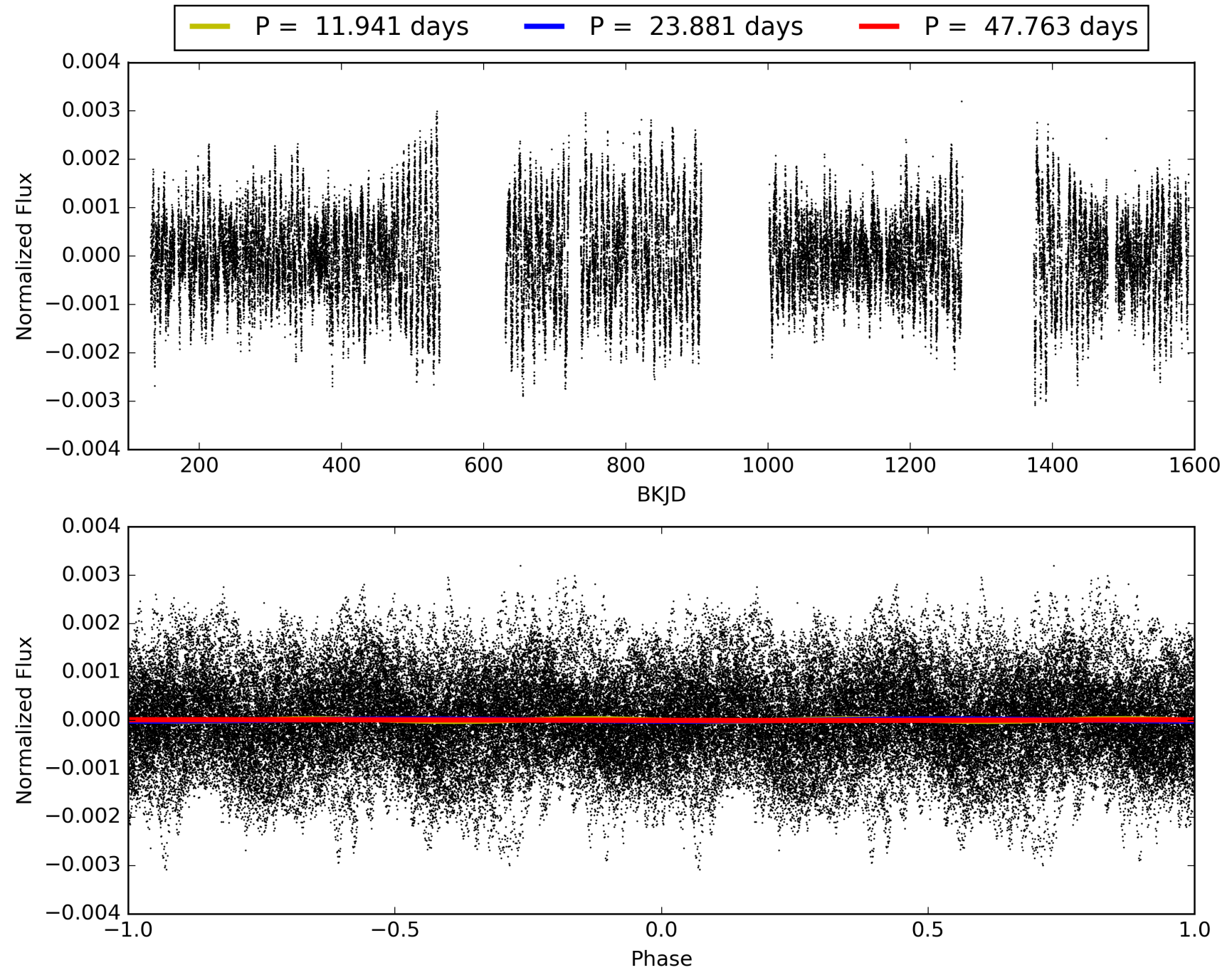
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 05:14:47 Z

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

TCE 004755450-05, PDC Light Curves

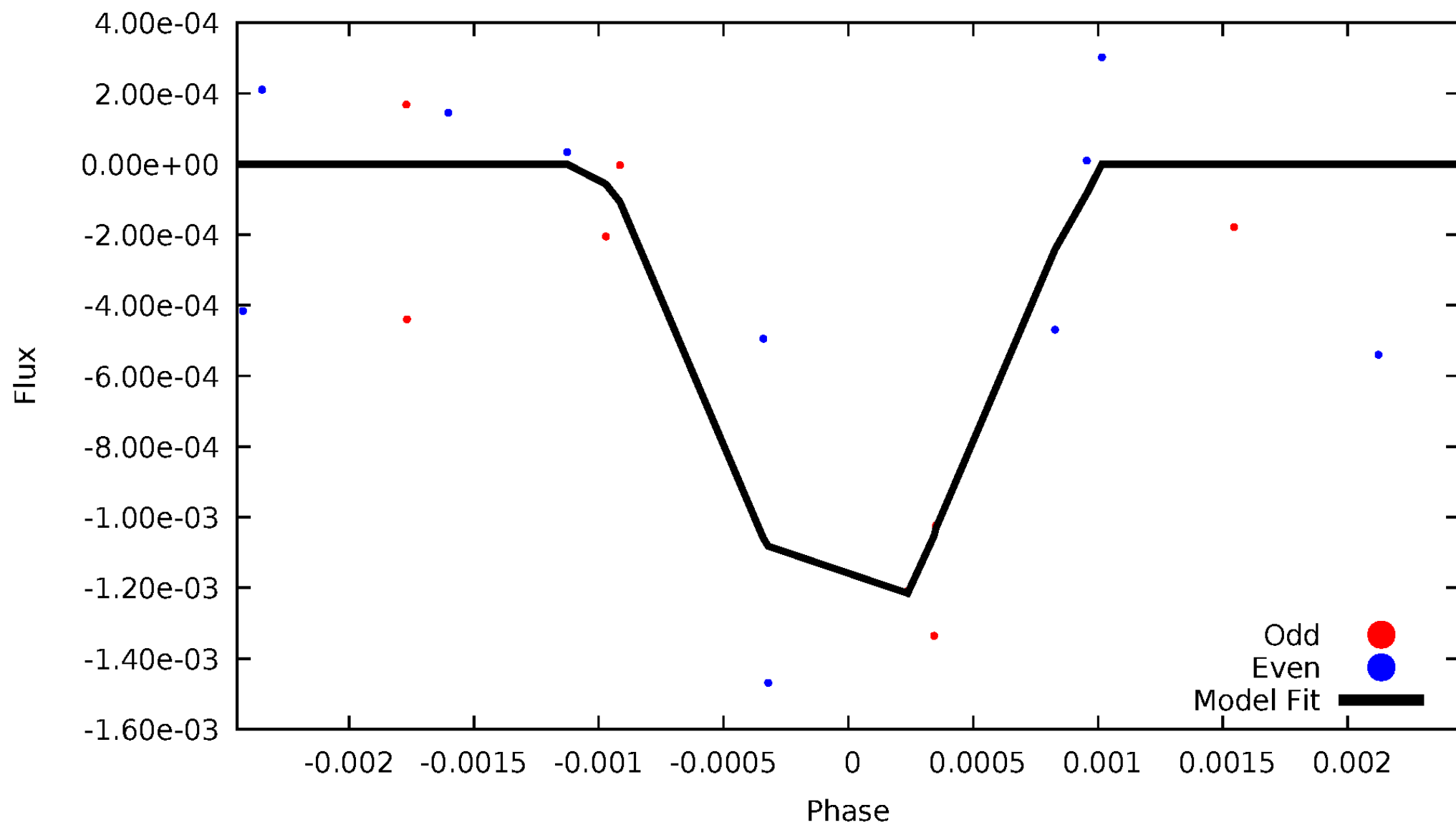


TCE 004755450-05



DV Odd/Even

TCE 004755450-05

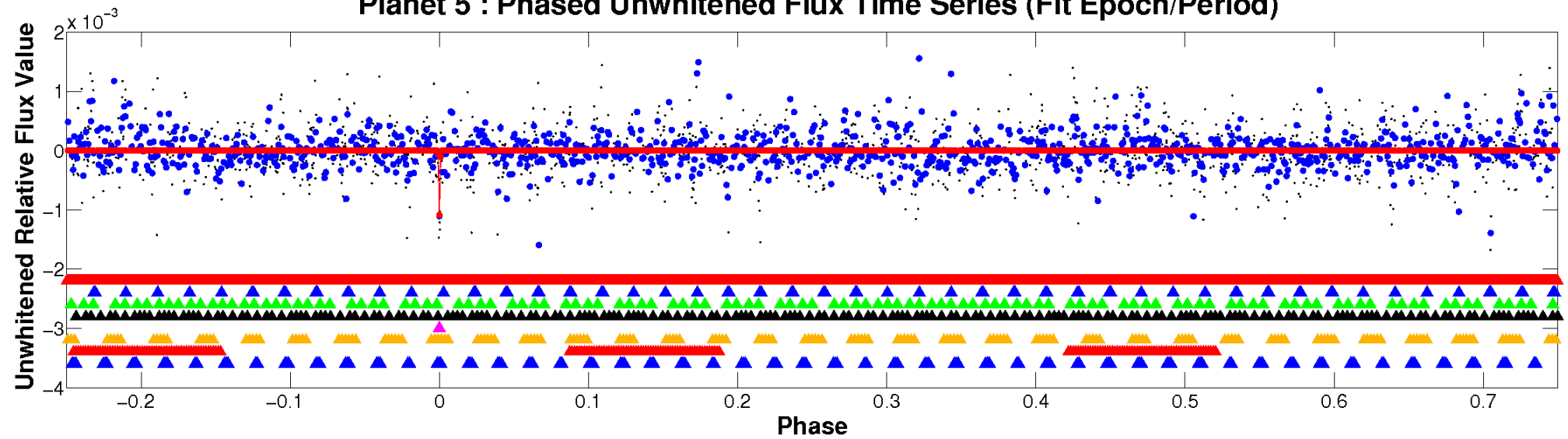


ALT Odd/Even

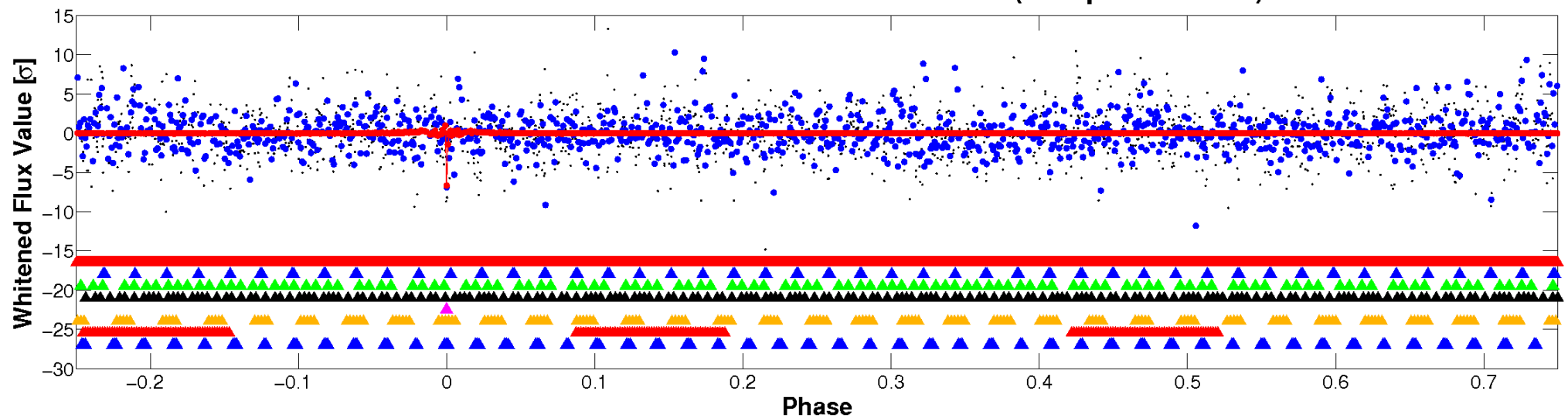
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

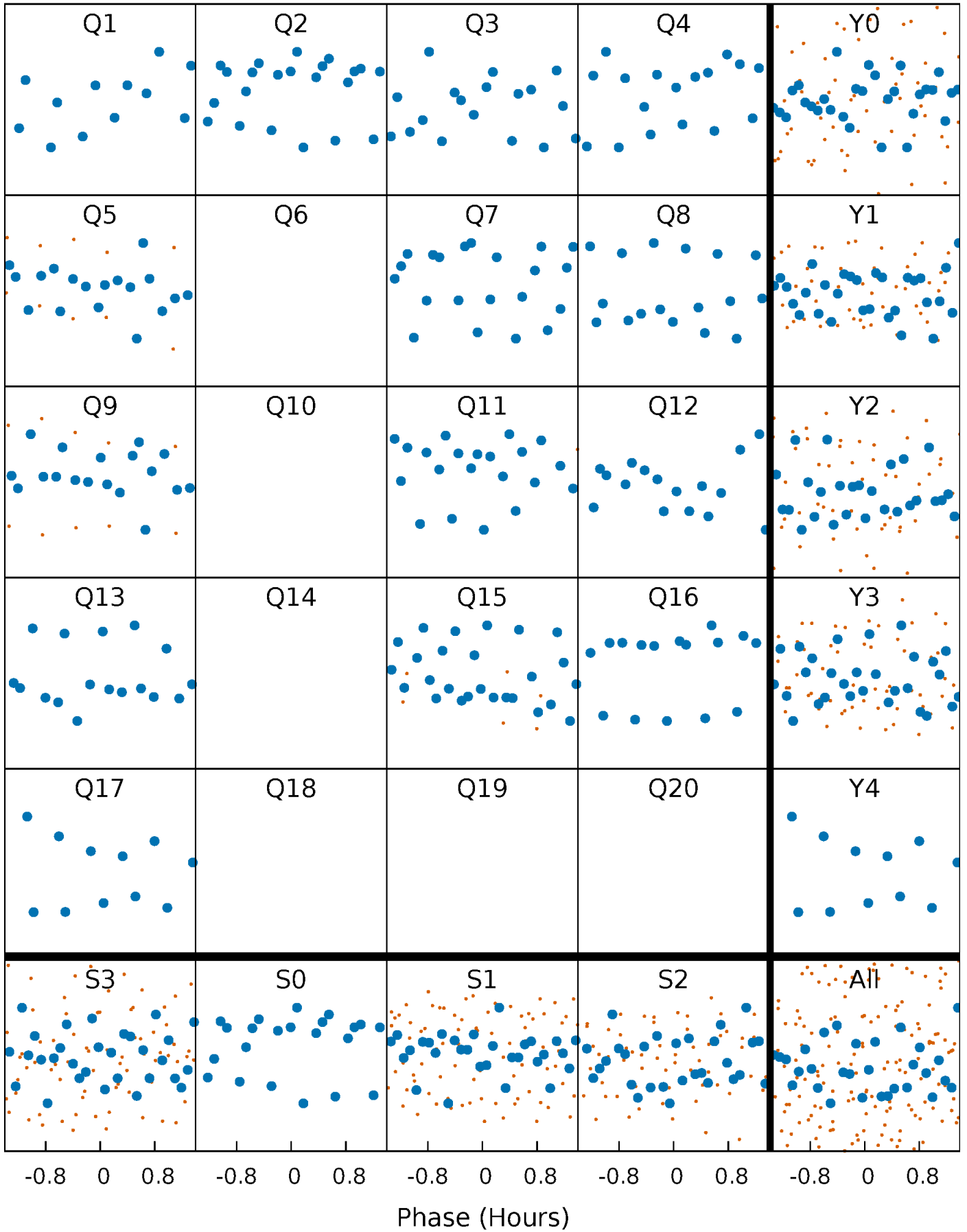


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



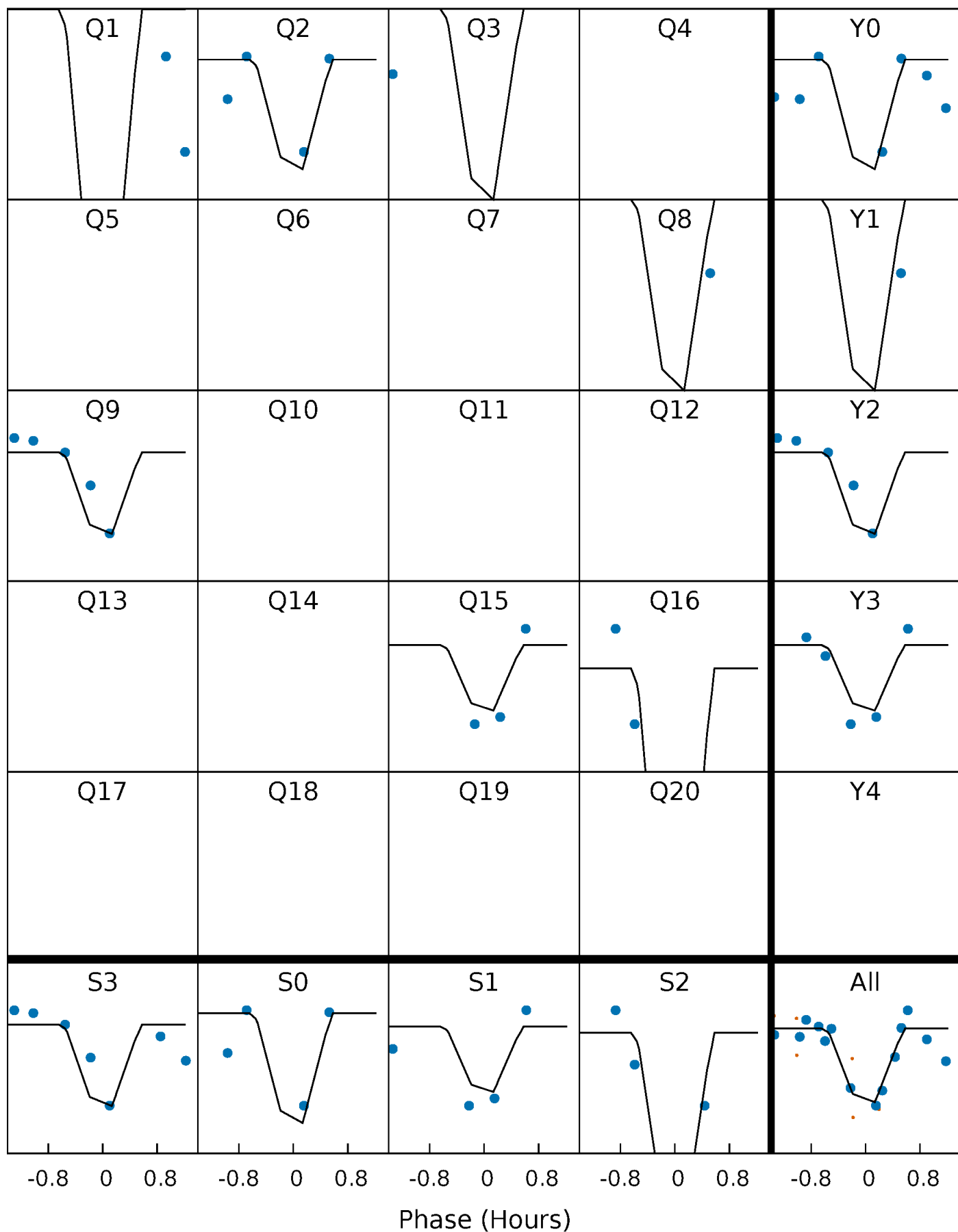
PDC Quarter-Phased Transit Curves

TCE 004755450-05 P= 23.881304 Days $T_0=131.829472$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 004755450-05 $P = 23.881304$ Days $T_0 = 131.829472$ (BKJD)

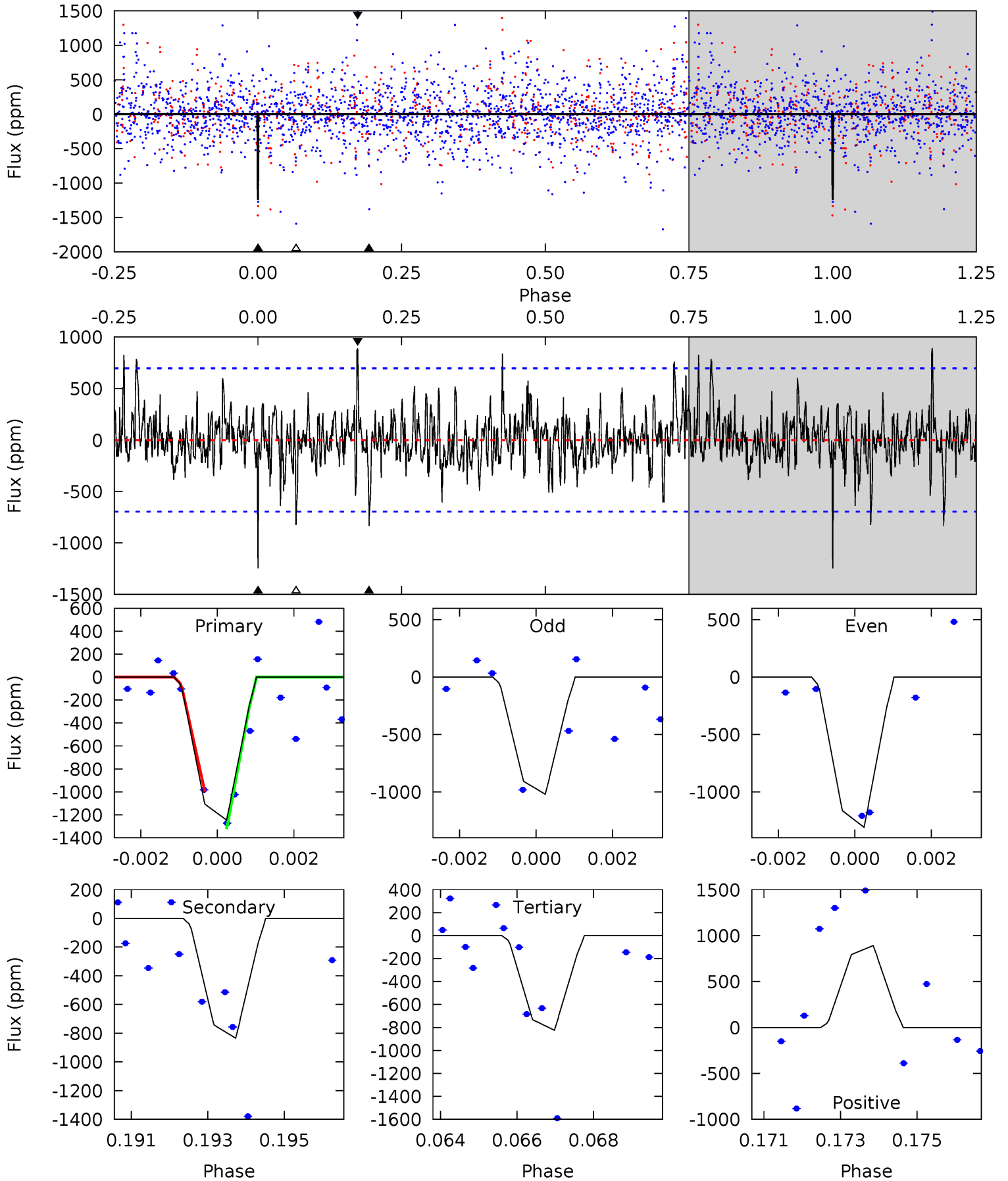


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

004755450-05, $P = 23.881304$ Days, $E = 131.829472$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.53	6.39	6.31	6.83	5.33	3.09	1.63	3.23	2.70	0.08	-0.44	1.09	0	0.42	1.24



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 004755450

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6459^{+181}_{-250}	$4.427^{+0.070}_{-0.210}$	$-0.360^{+0.250}_{-0.350}$	$1.049^{+0.333}_{-0.133}$	$1.071^{+0.161}_{-0.146}$	$1.306^{+0.385}_{-0.710}$
	+3%/-4%	+2%/-5%	+69%/-97%	+32%/-13%	+15%/-14%	+29%/-54%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 004755450-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-835 ± 131	$5.19^{+4.64}_{-3.28}$	1019^{+75}_{-53}	5256^{+3820}_{-1176}	452^{+2877}_{-326}
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

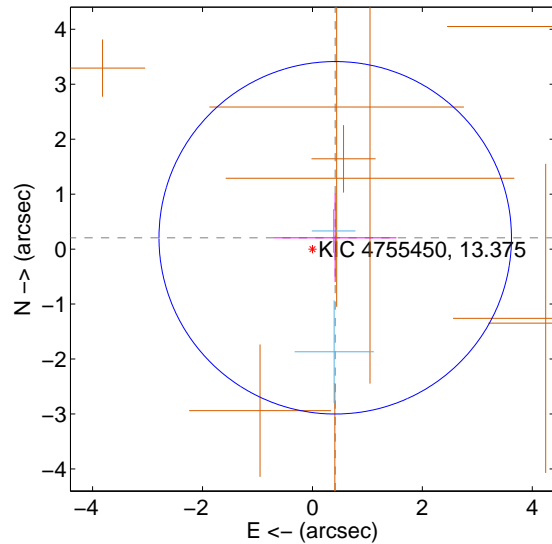
Supplemental centroid analysis for 004755450-05. Kepler magnitude: 13.38. Transit SNR 15.34

There are 2 quarters with good PRF difference image offsets

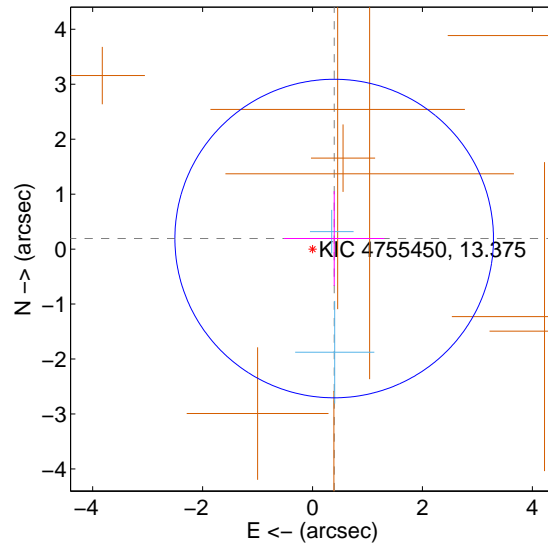
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.463 ± 1.069	0.43	-0.415 ± 1.113	0.206 ± 0.804
PRF-fit source offset from KIC position	0.438 ± 0.966	0.45	-0.394 ± 0.914	0.192 ± 0.862
photometric centroid source offset	0.46 ± 0.21	2.23	-0.25 ± 0.20	0.39 ± 0.21

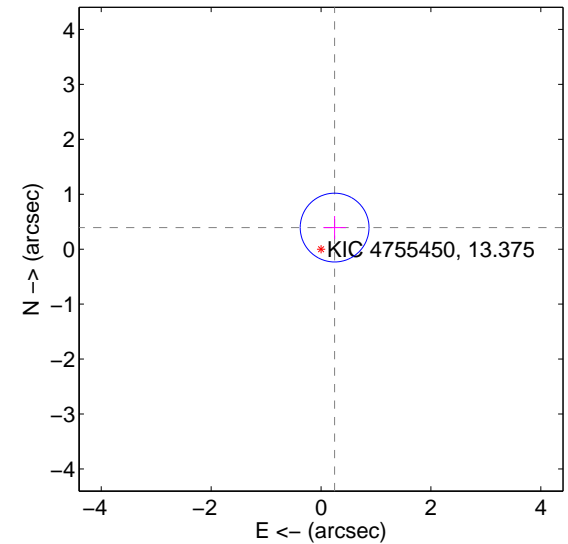
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

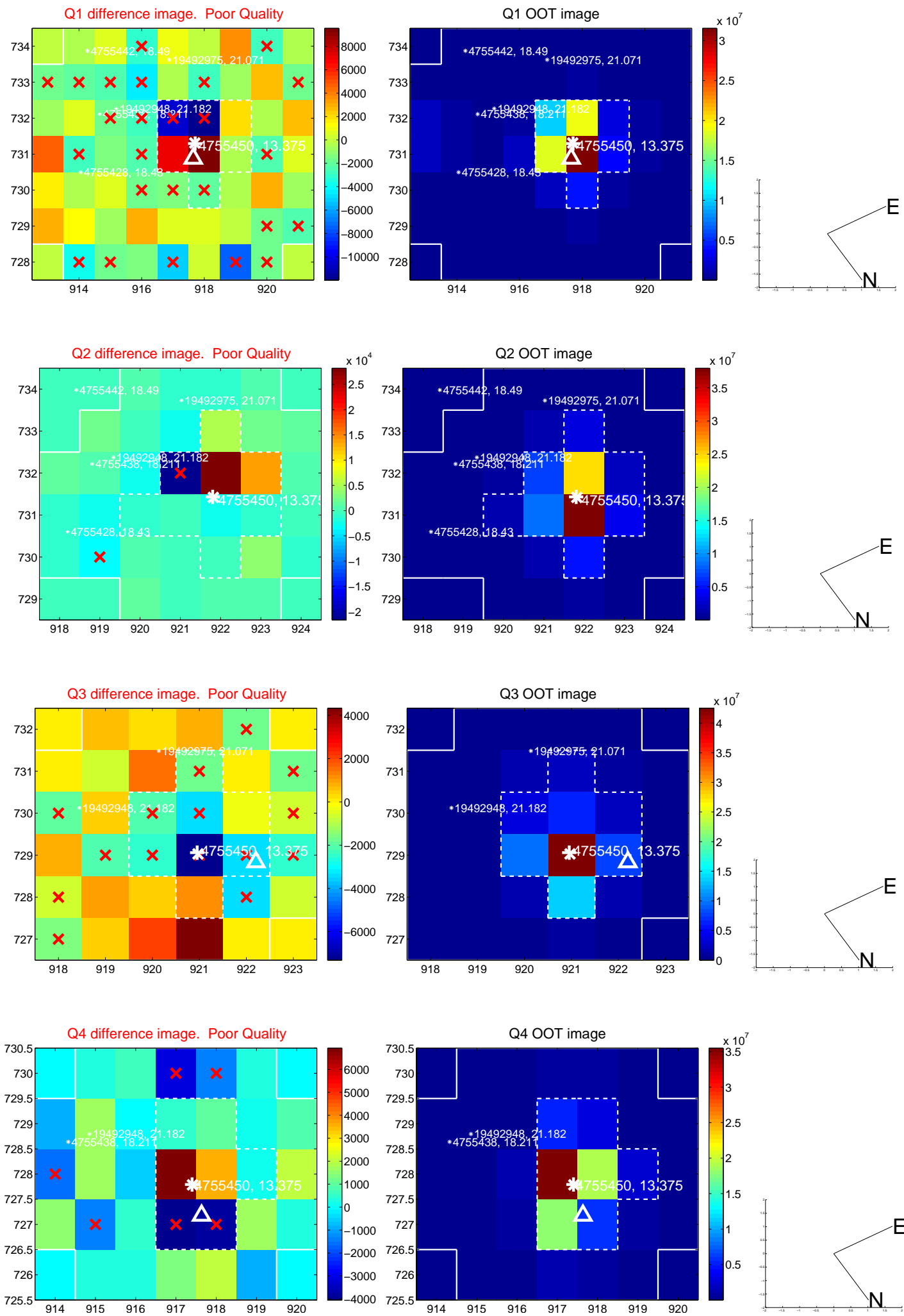


offset from photometric centroids

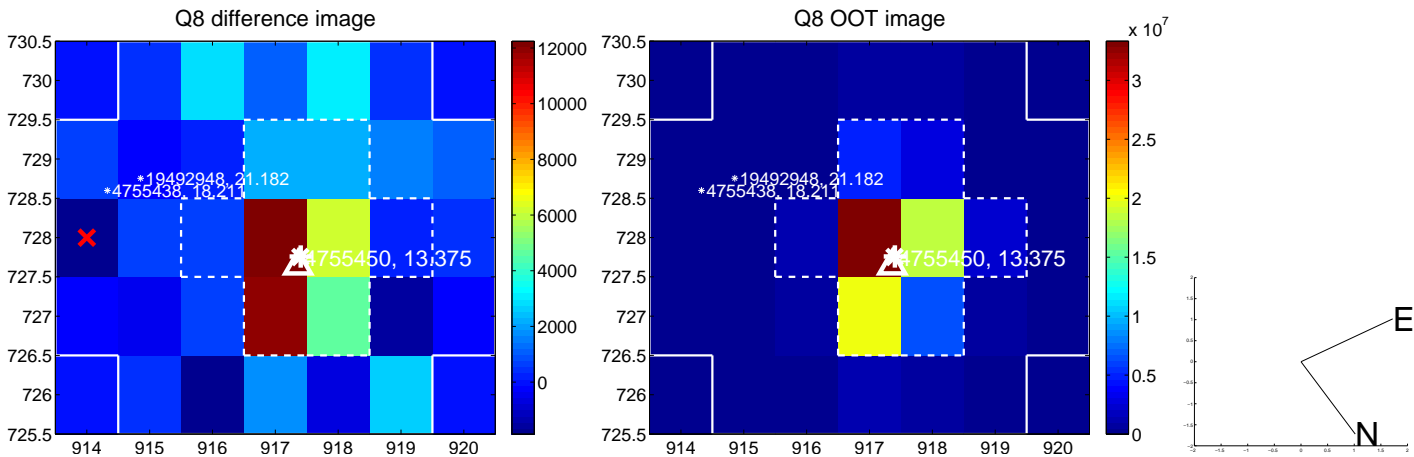
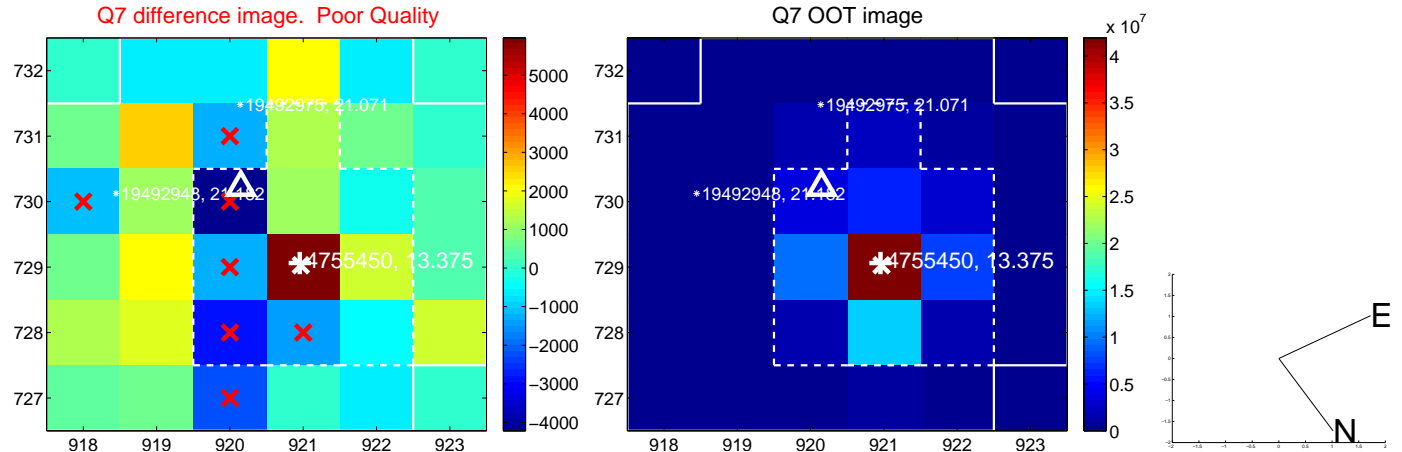
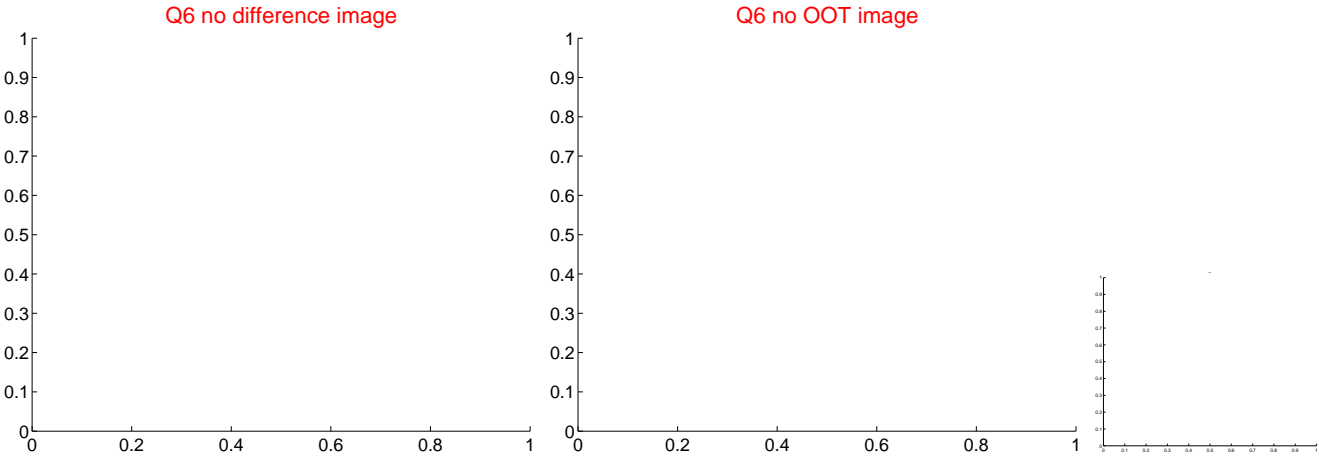
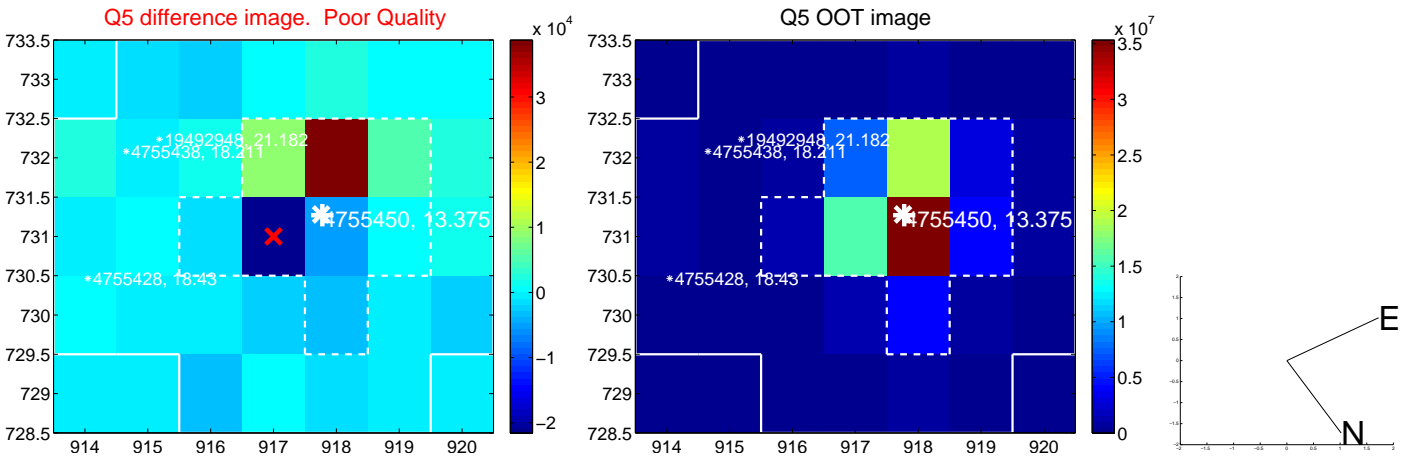


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

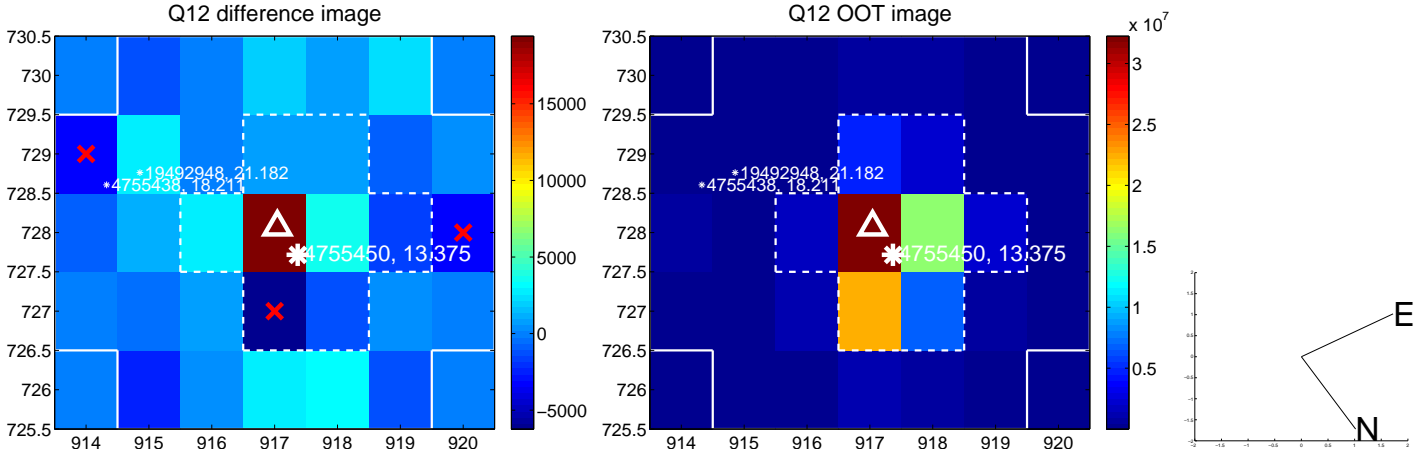
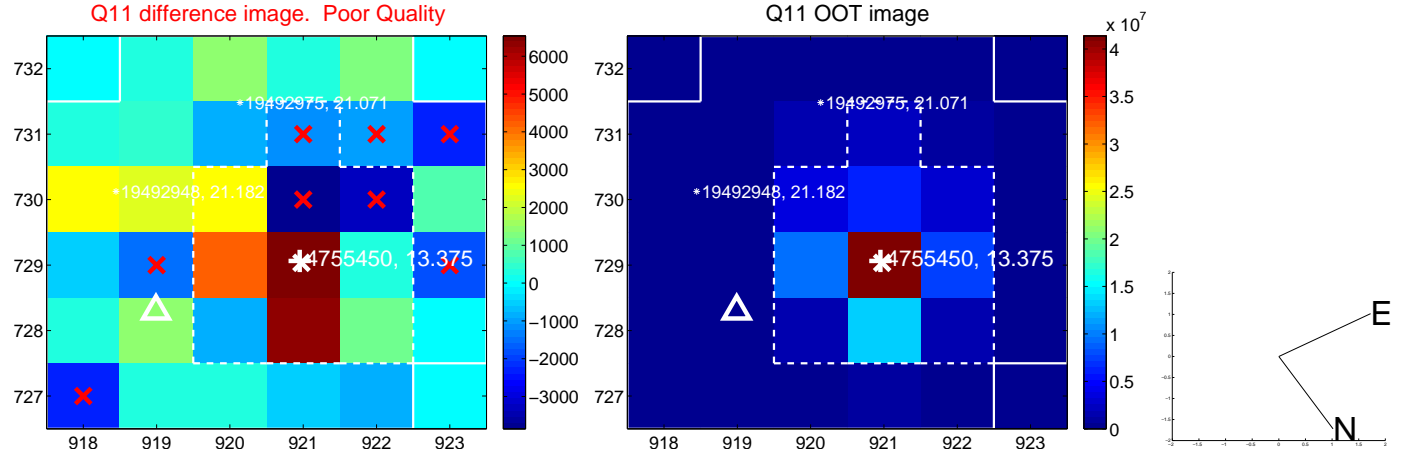
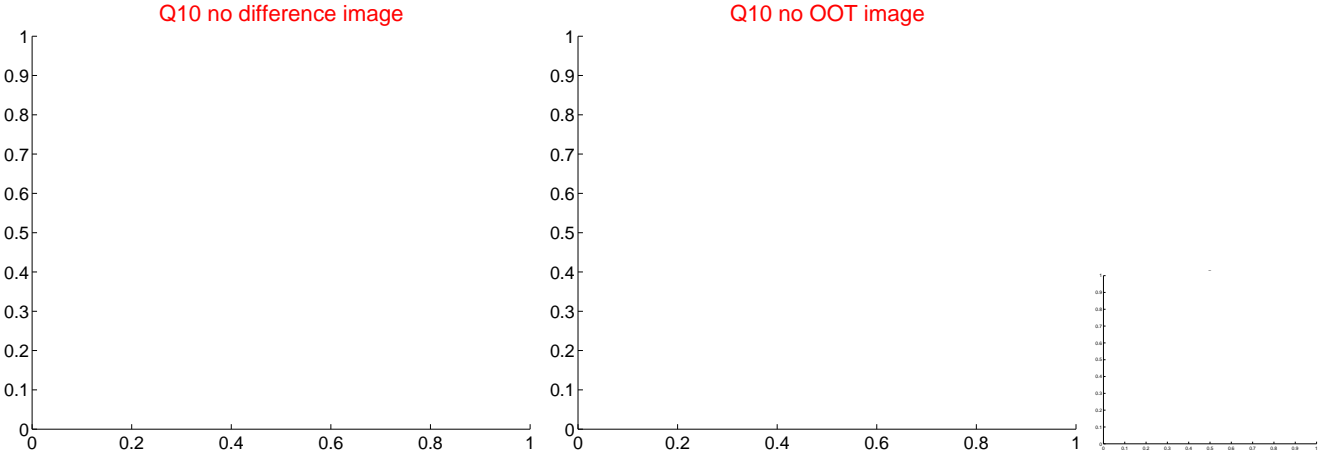
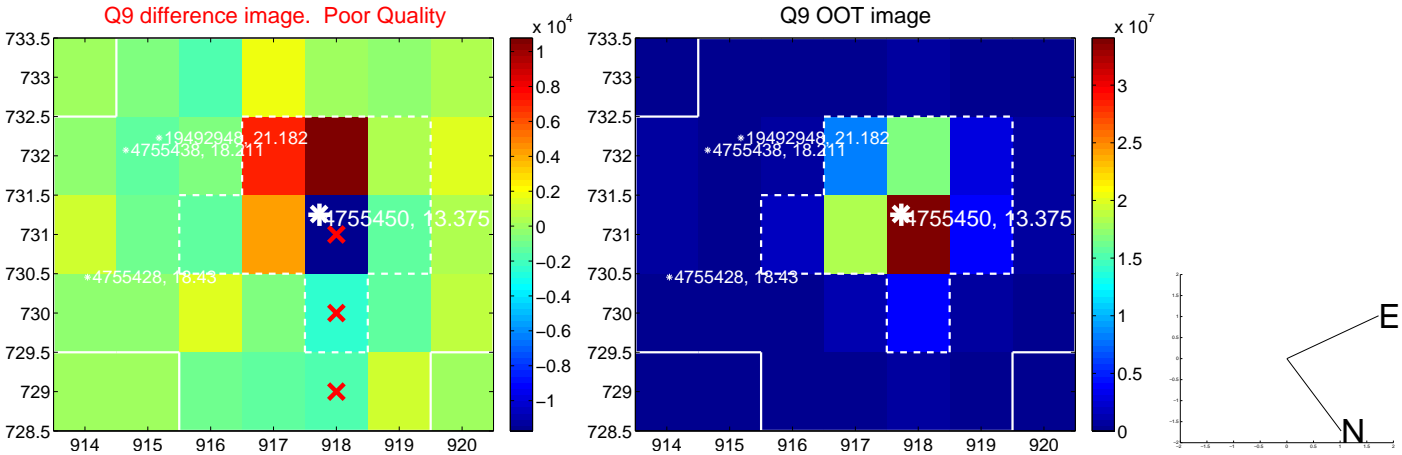
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



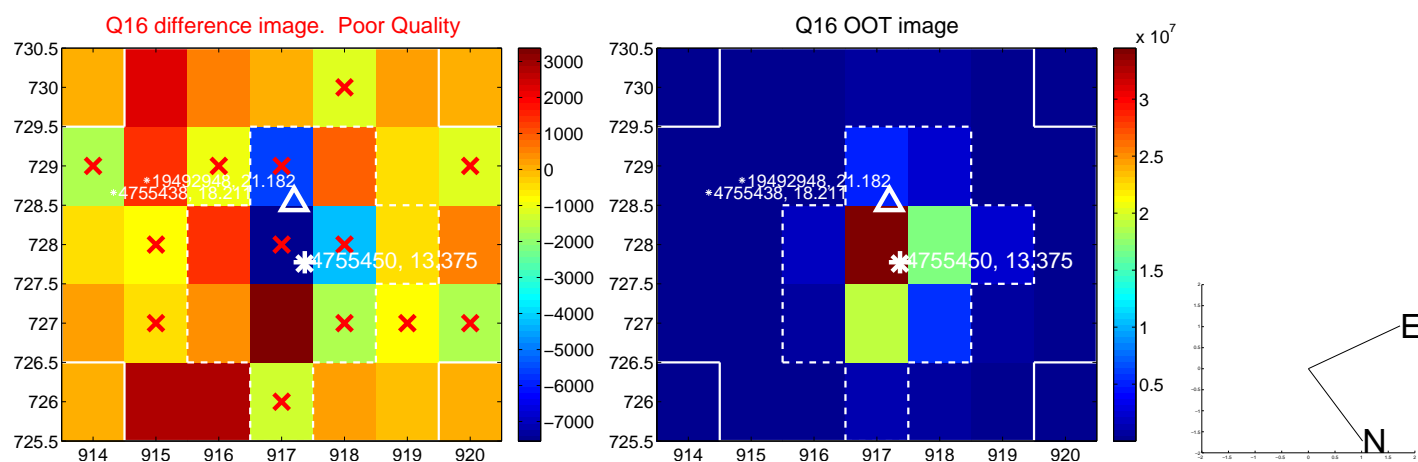
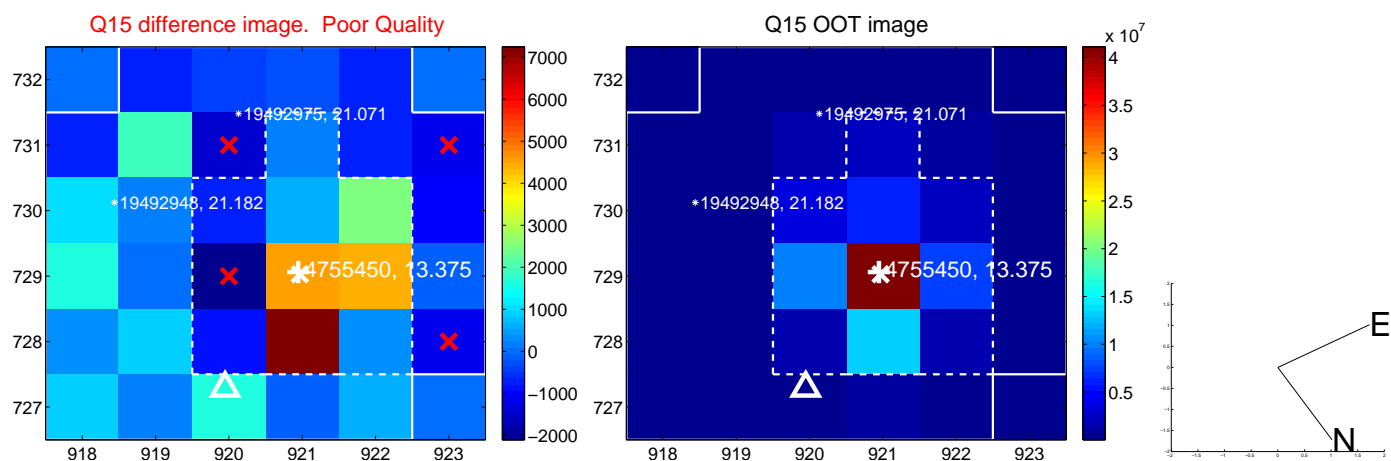
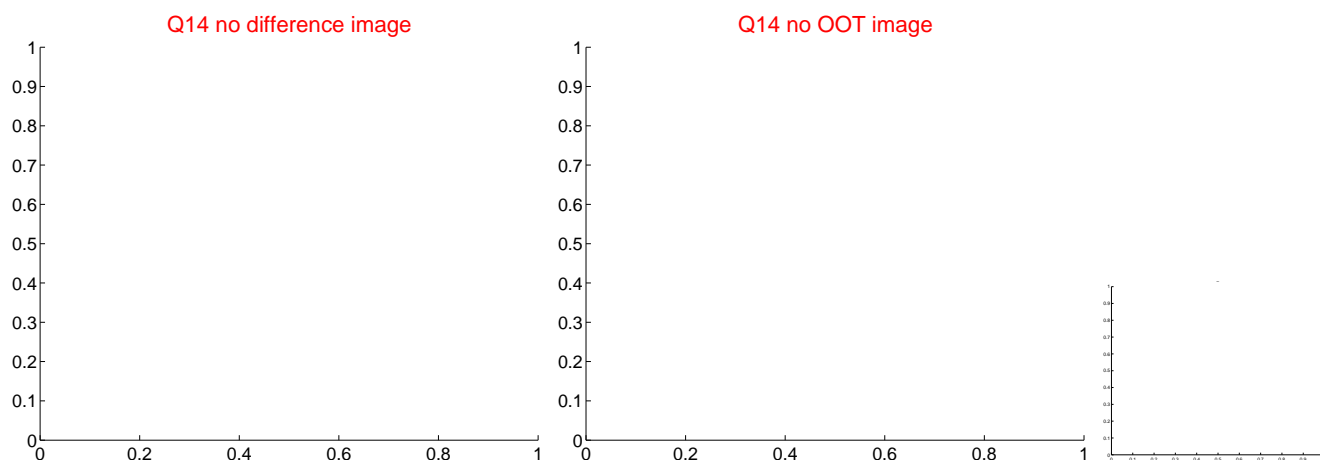
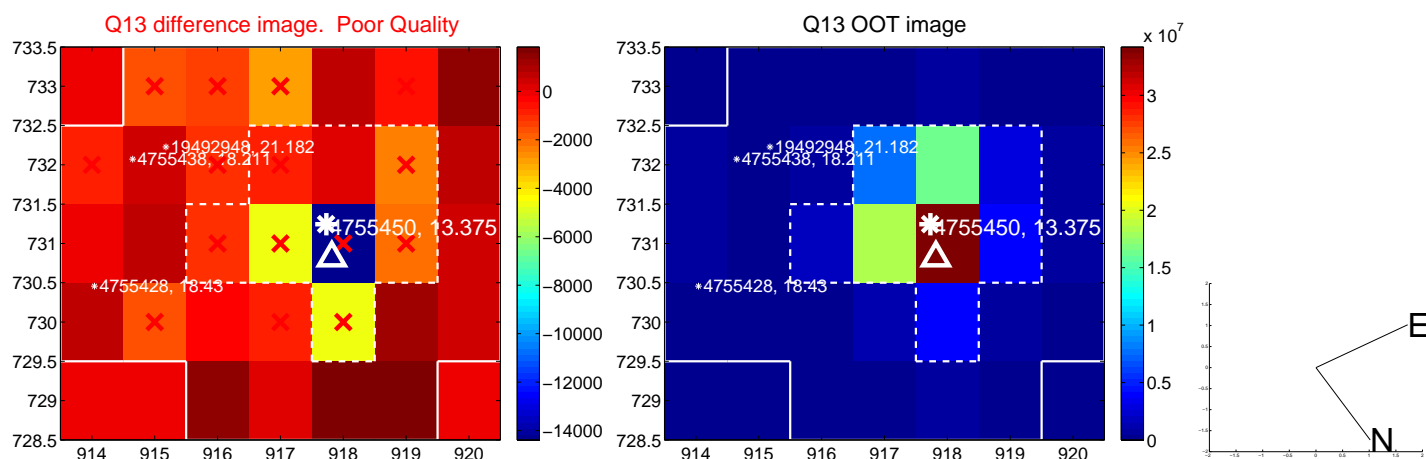
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



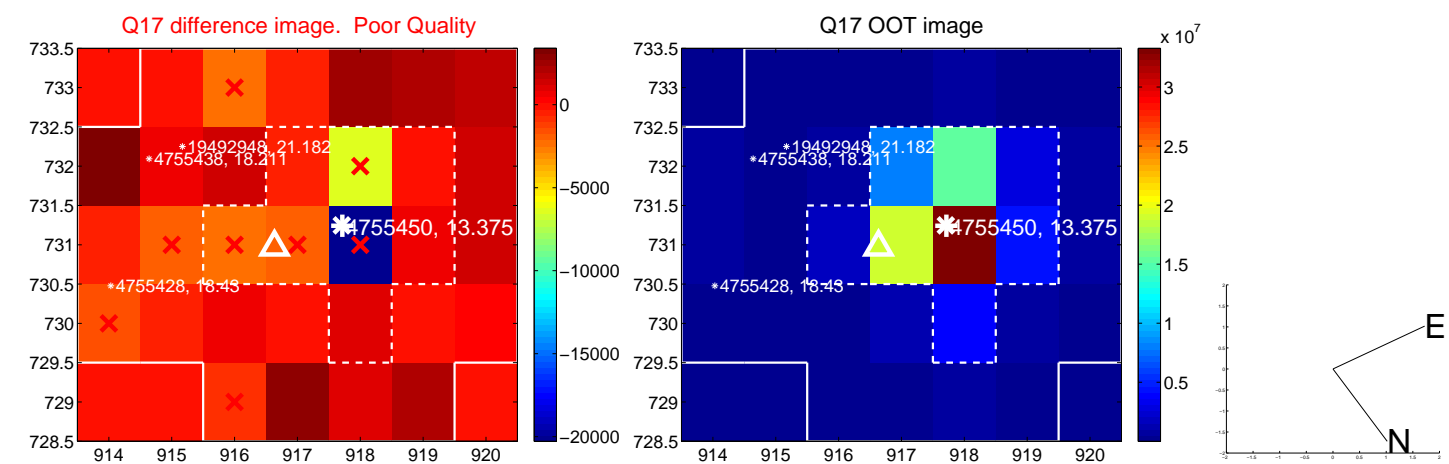
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



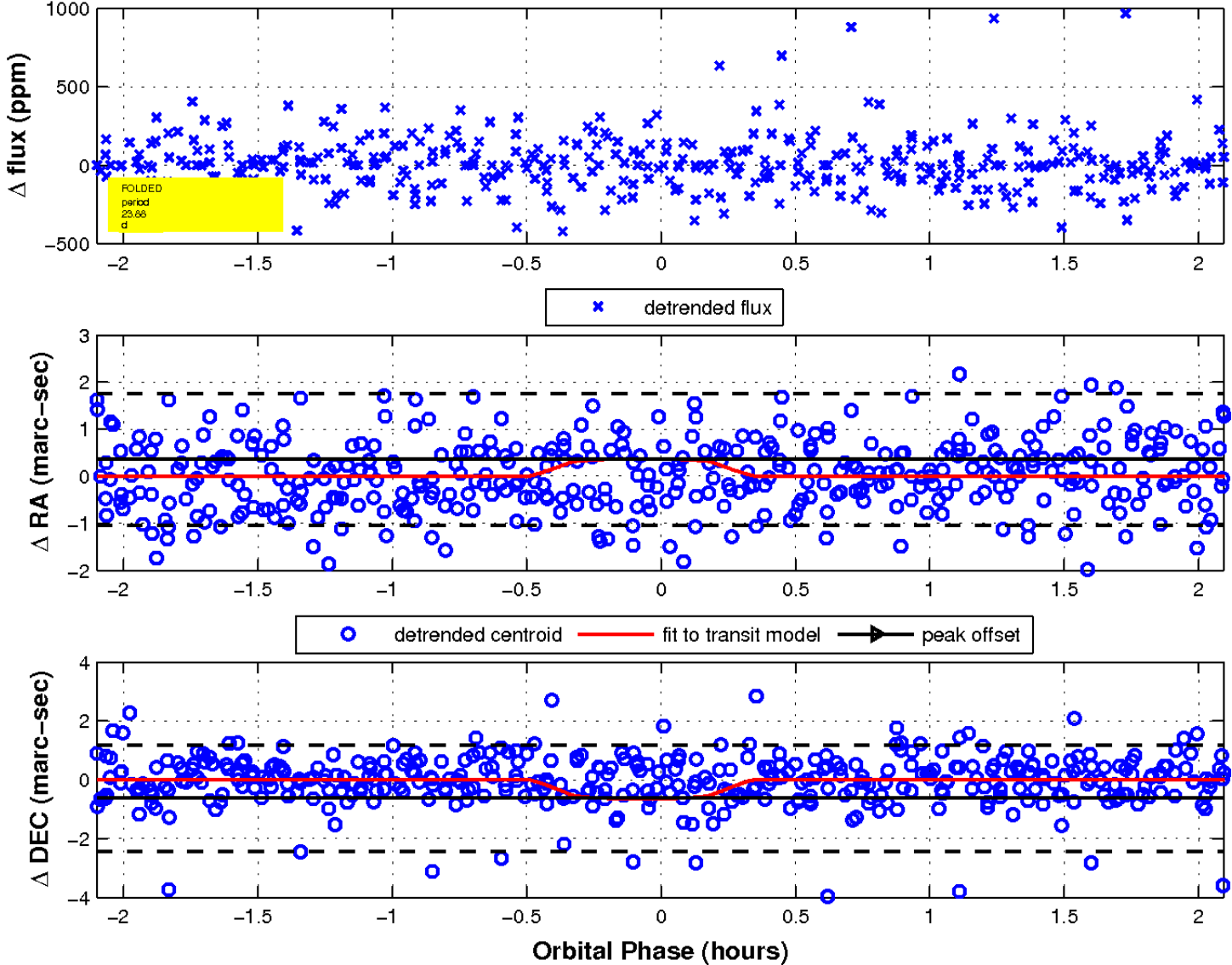
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

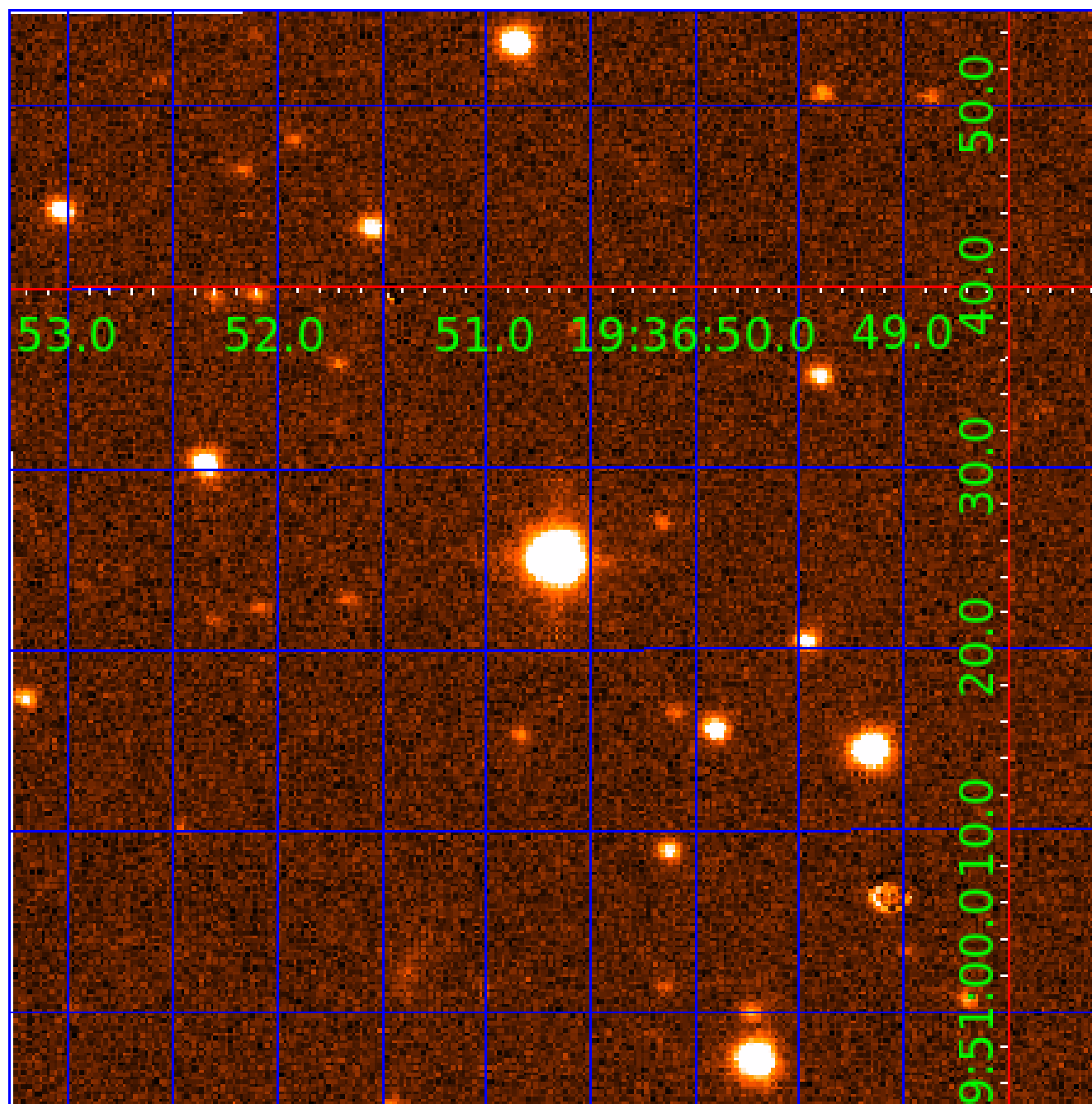


fluxWeightedCentroids, Planet 5 of 8



UKIRT Image

Declination



KIC 004755450

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})
004755450-01	OBS	No	0.507703	131.633551	21.0	3.720	7.9	9.1	1.05	6459	0.53	10550.18
004755450-02	OBS	No	19.815919	142.581805	991.3	1.250	17.0	16.5	1.05	6459	3.36	79.69
004755450-03	OBS	No	12.369838	138.856659	793.8	0.590	12.4	8.2	1.05	6459	3.26	149.37
004755450-04	OBS	No	7.125213	137.447743	721.4	0.957	12.4	14.5	1.05	6459	2.92	311.66
004755450-05	OBS	No	23.881304	131.829472	1382.3	0.701	11.7	15.3	1.05	6459	4.00	62.13
004755450-06	OBS	No	8.207509	137.955301	305.4	2.164	9.0	8.6	1.05	6459	1.85	258.10
004755450-07	OBS	No	7.947327	136.314372	477.7	1.843	11.3	10.3	1.05	6459	2.38	269.43
004755450-08	OBS	No	10.721633	139.666006	640.6	1.001	12.5	11.9	1.05	6459	2.87	180.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004755450-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS
004755450-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
004755450-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—CENT_FEW_DIFFS—HALO_GHOST
004755450-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

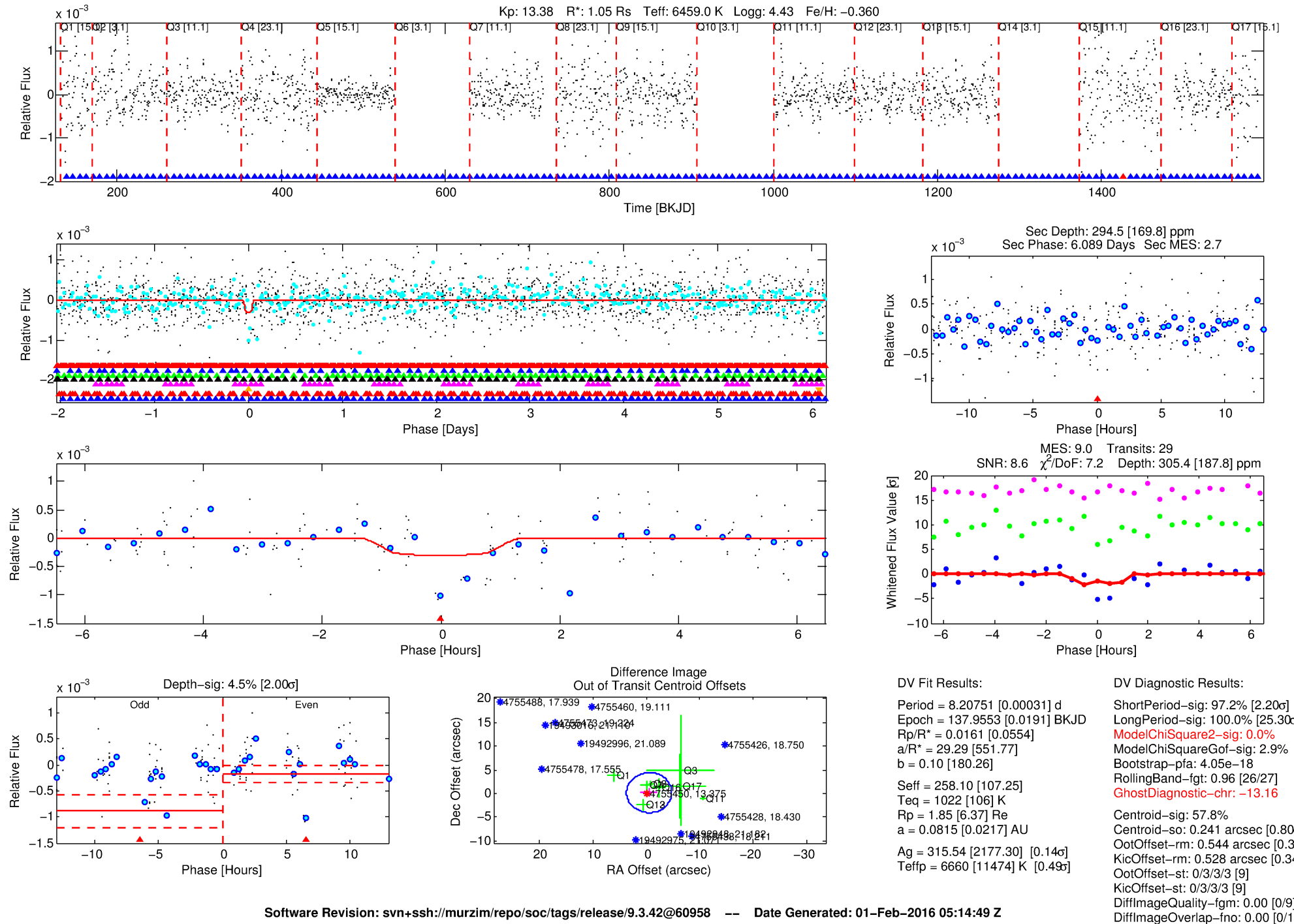
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004755450-06

No Significant Match Found

DV One-Page Summary

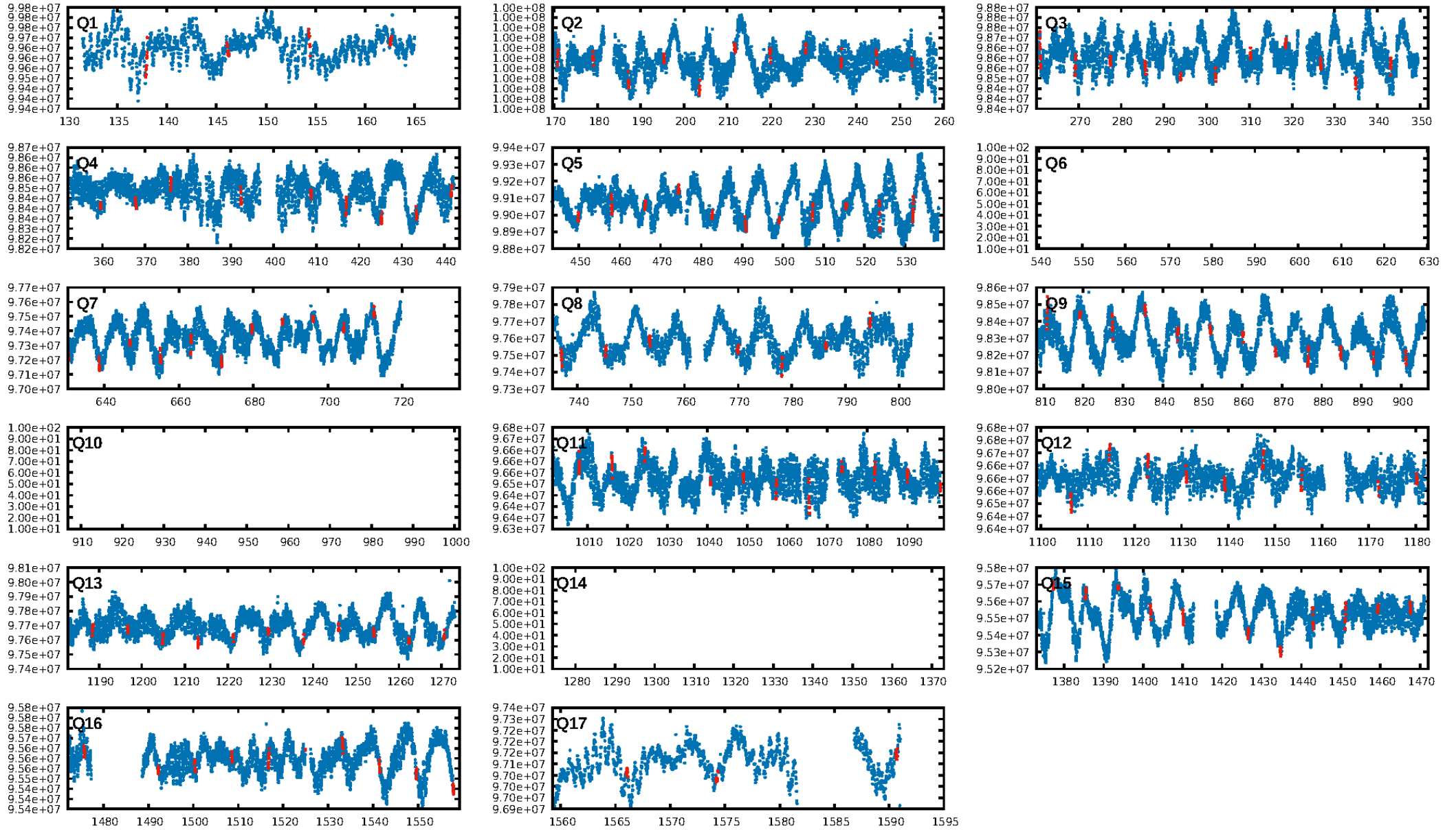
KIC: 4755450 Candidate: 6 of 8 Period: 8.208 d



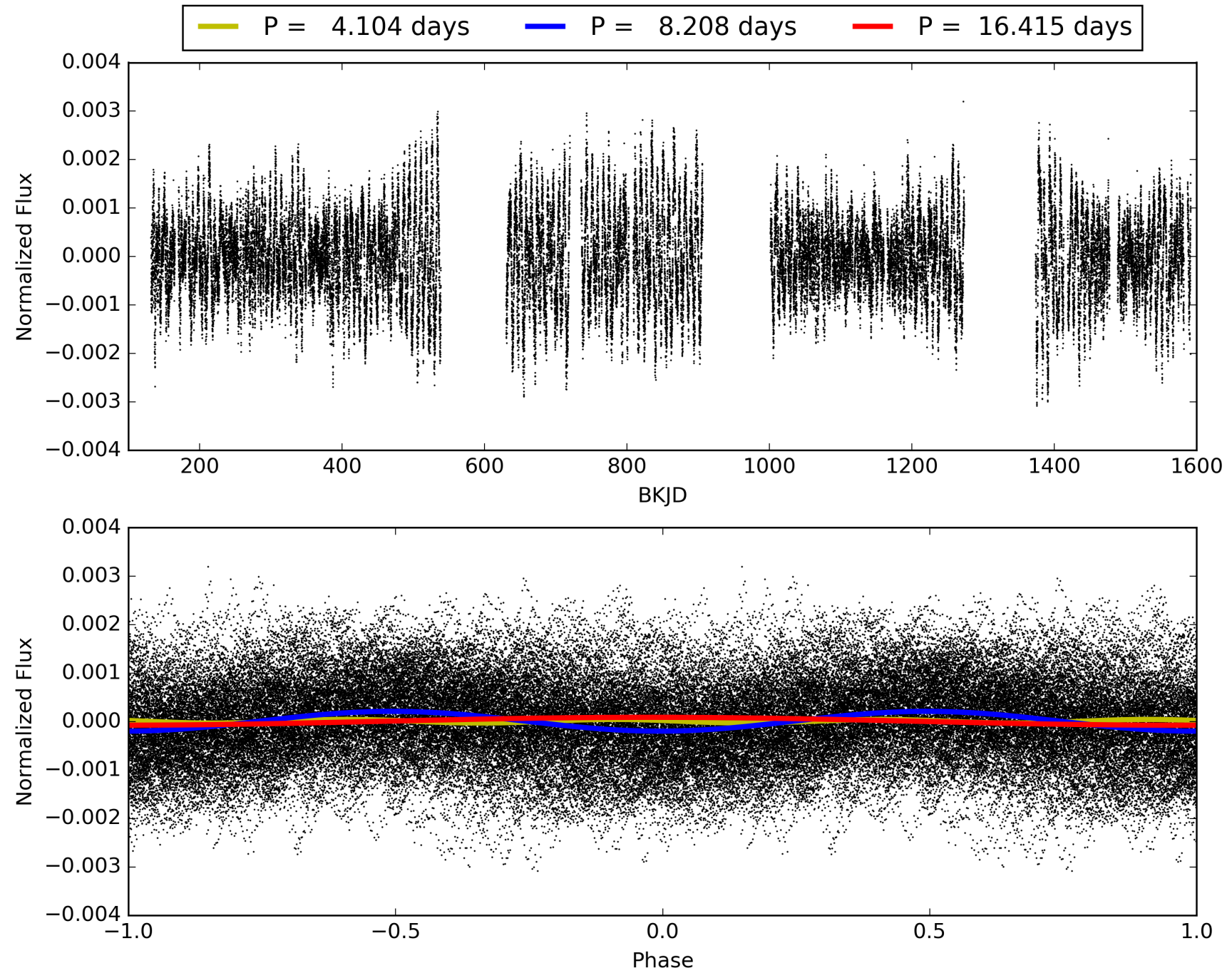
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 05:14:49 Z

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

TCE 004755450-06, PDC Light Curves

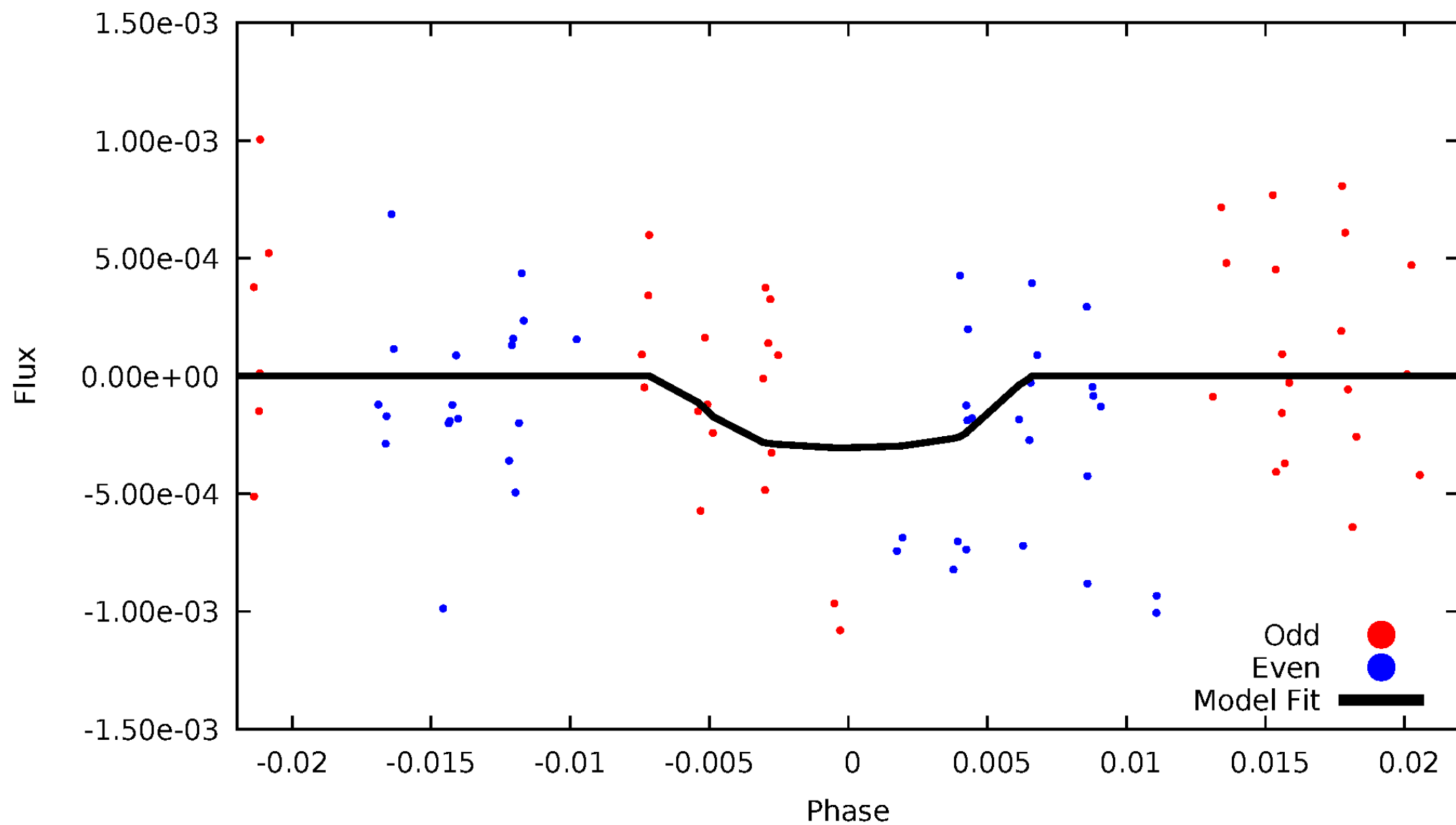


TCE 004755450-06



DV Odd/Even

TCE 004755450-06

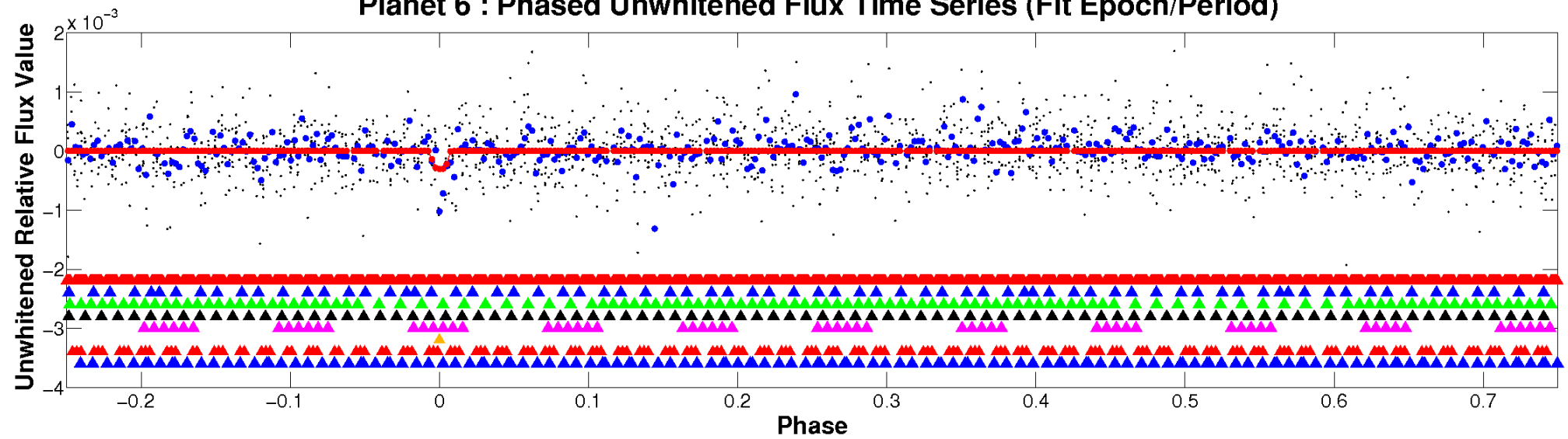


ALT Odd/Even

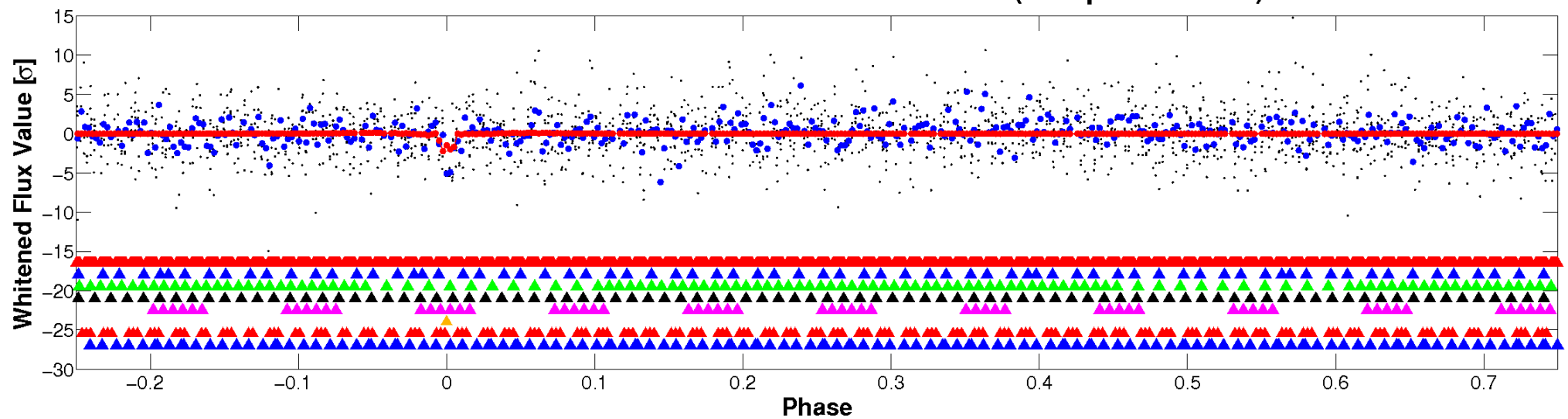
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

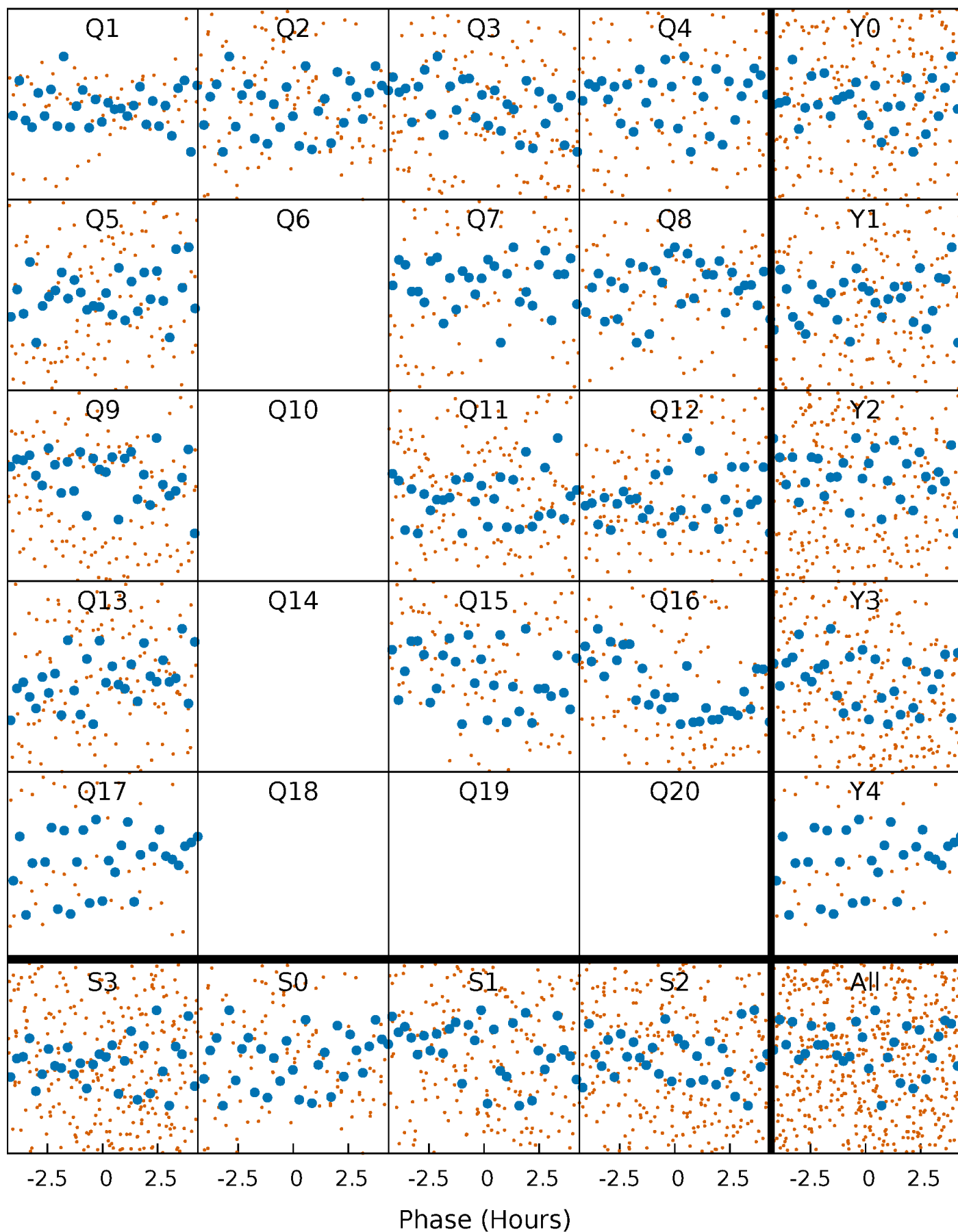


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



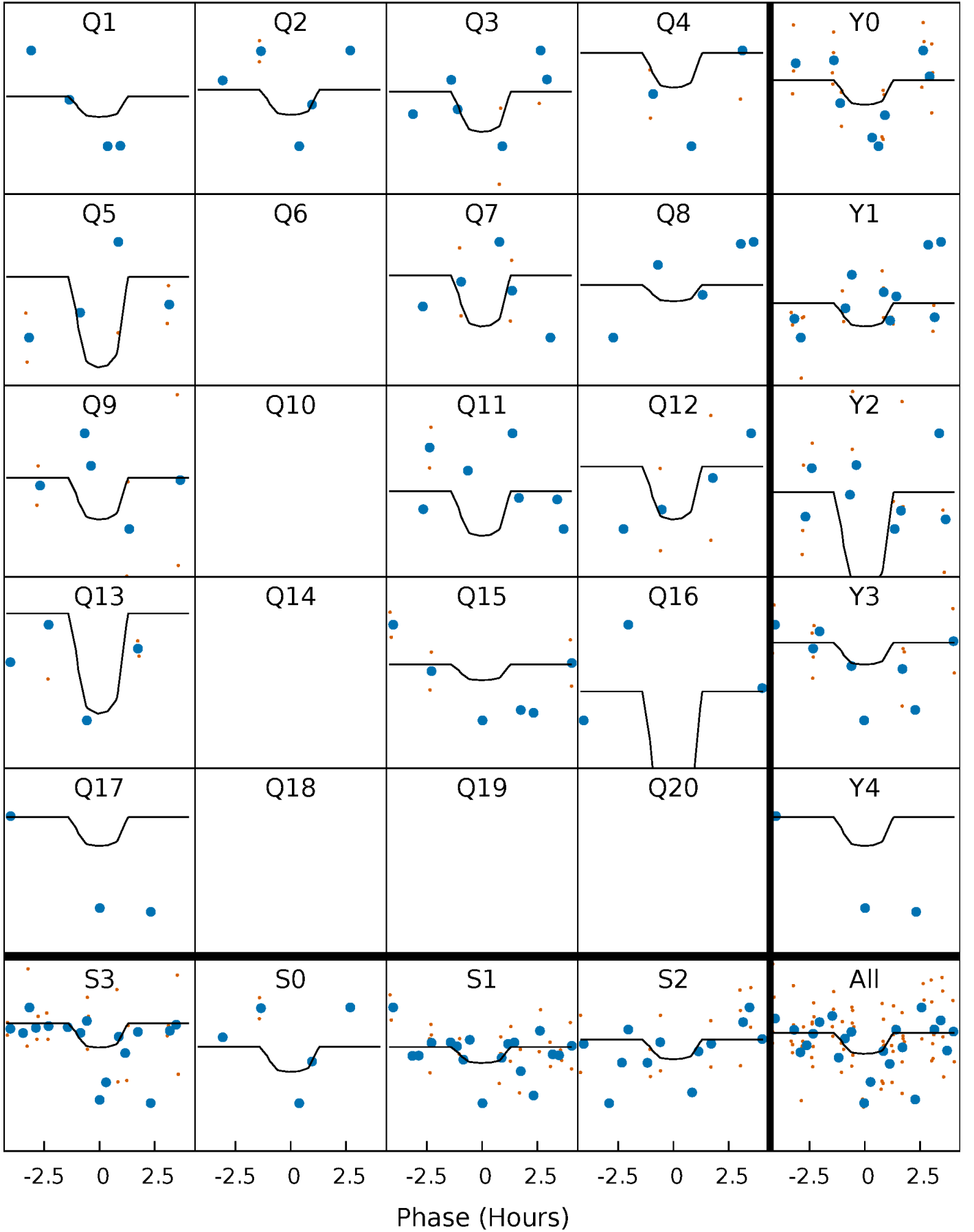
PDC Quarter-Phased Transit Curves

TCE 004755450-06 P= 8.207509 Days $T_0=137.955301$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 004755450-06 P= 8.207509 Days $T_0=137.955301$ (BKJD)

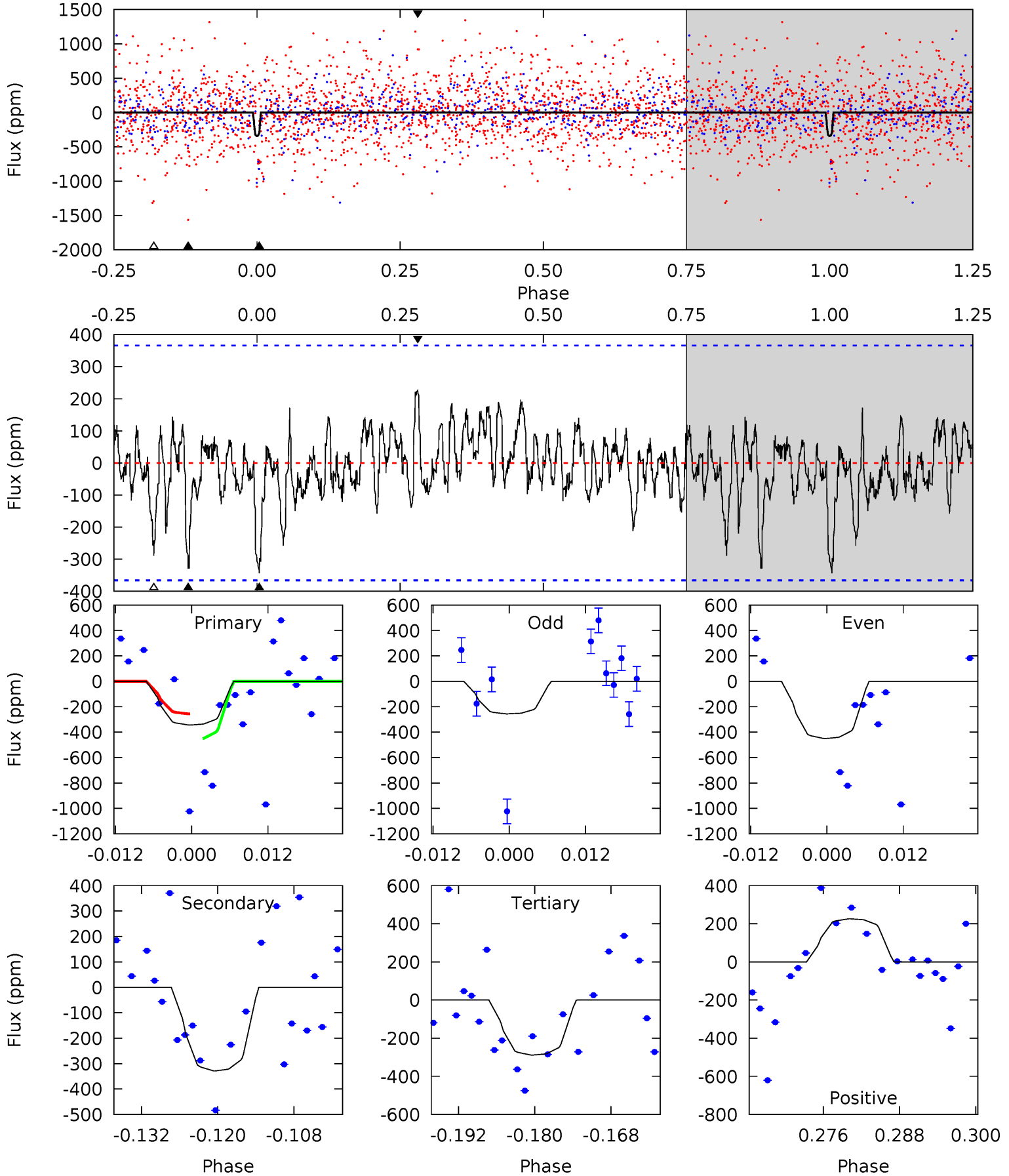


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

004755450-06, P = 8.207509 Days, E = 129.747792 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.69	4.49	3.94	3.08	4.99	2.51	1.10	0.76	1.61	0.55	1.40	1.38	1.00	0.40	1.35



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 004755450

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6459^{+181}_{-250}	$4.427^{+0.070}_{-0.210}$	$-0.360^{+0.250}_{-0.350}$	$1.049^{+0.333}_{-0.133}$	$1.071^{+0.161}_{-0.146}$	$1.306^{+0.385}_{-0.710}$
	+3%/-4%	+2%/-5%	+69%/-97%	+32%/-13%	+15%/-14%	+29%/-54%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 004755450-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-329 ± 73	$5.06^{+5.68}_{-3.42}$	1452^{+108}_{-74}	4351^{+3182}_{-950}	44^{+369}_{-33}
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 $A_{\text{obs}} \gg 1.0$

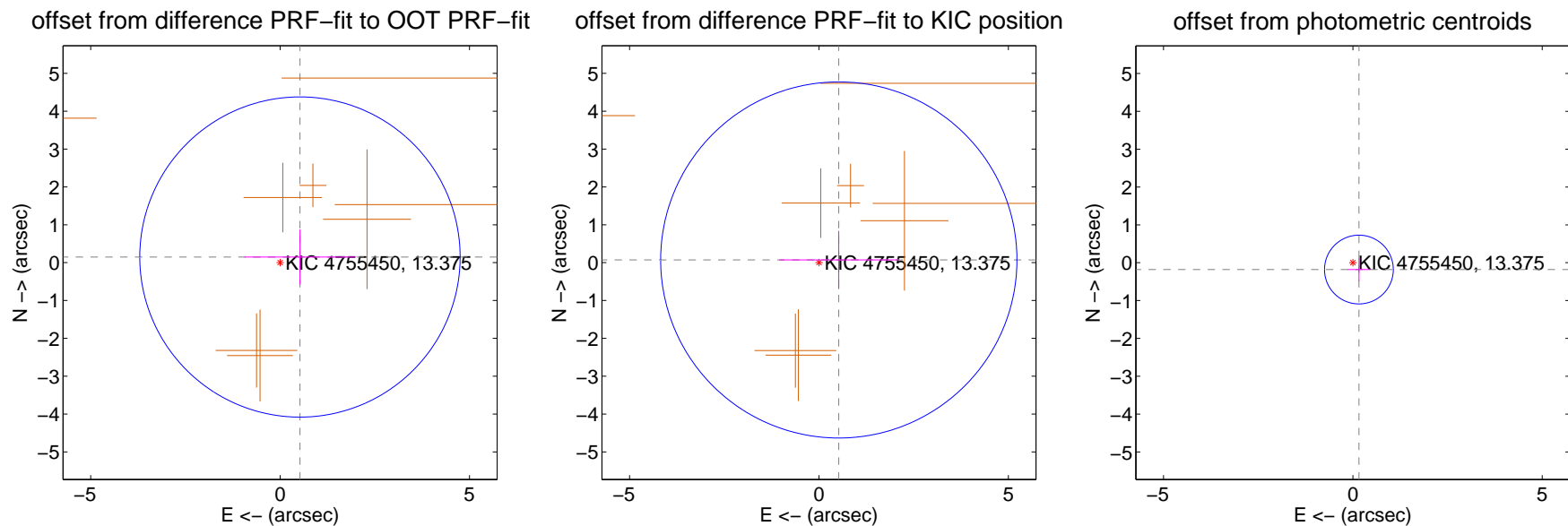
DV Centroid Data

Supplemental centroid analysis for 004755450-06. Kepler magnitude: 13.38. Transit SNR 8.63

There are 0 quarters with good PRF difference image offsets

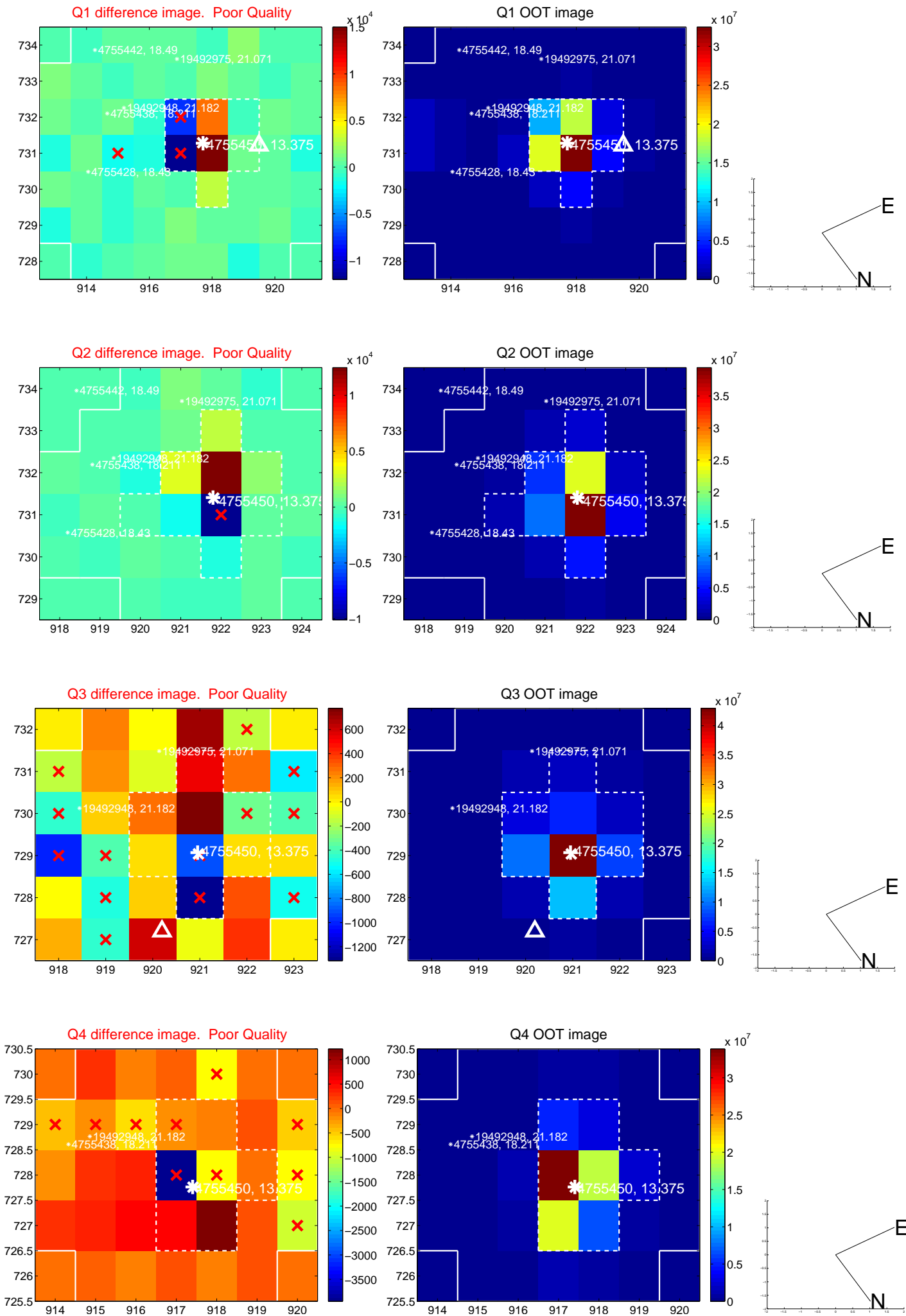
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.544 ± 1.409	0.39	-0.524 ± 1.466	0.149 ± 0.726
PRF-fit source offset from KIC position	0.528 ± 1.568	0.34	-0.523 ± 1.568	0.071 ± 0.768
photometric centroid source offset	0.24 ± 0.30	0.80	-0.16 ± 0.30	-0.18 ± 0.31

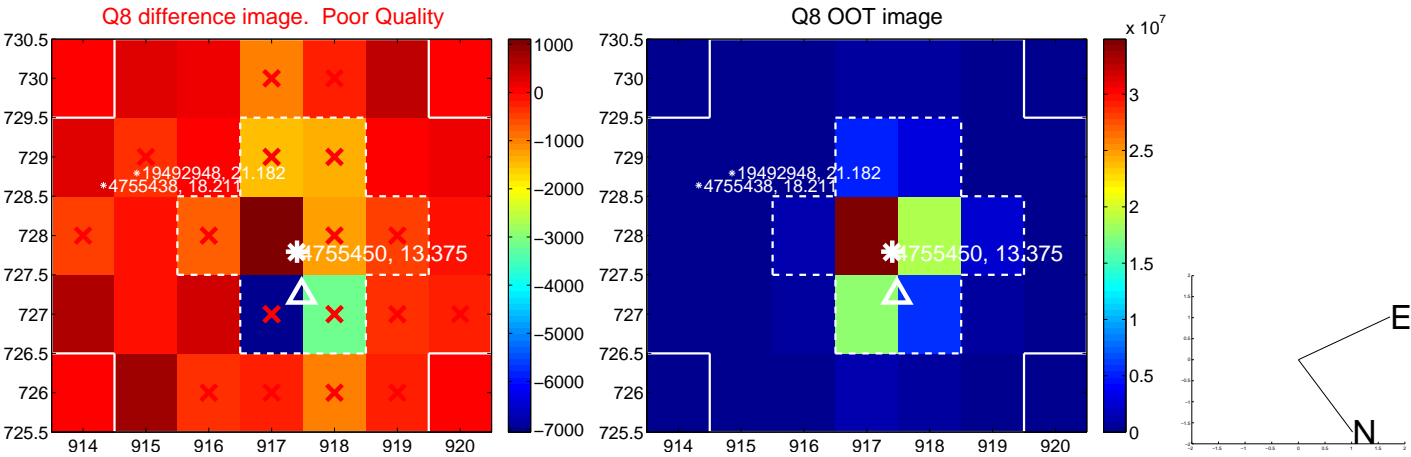
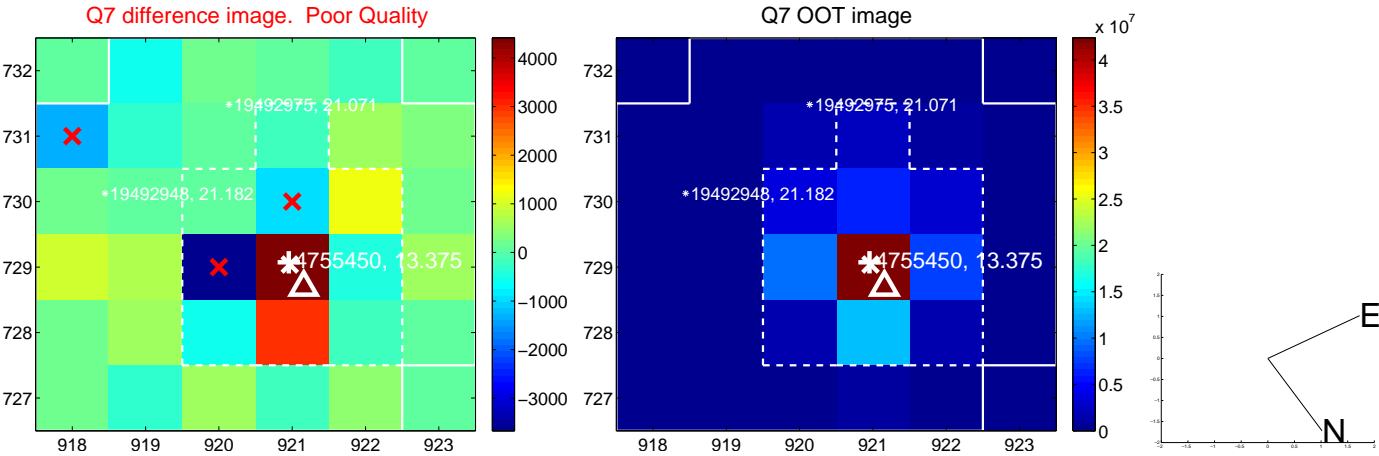
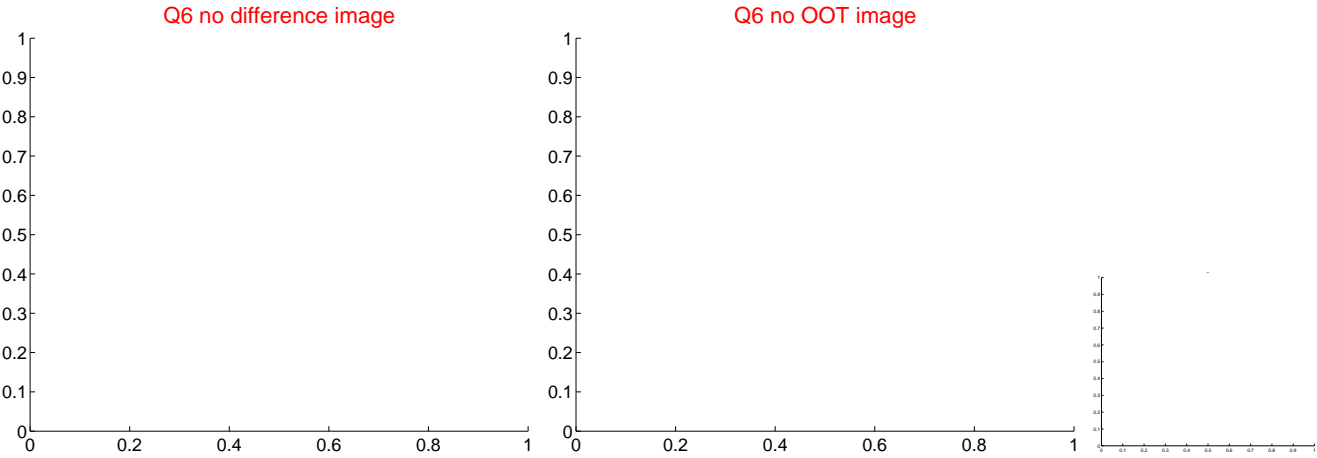
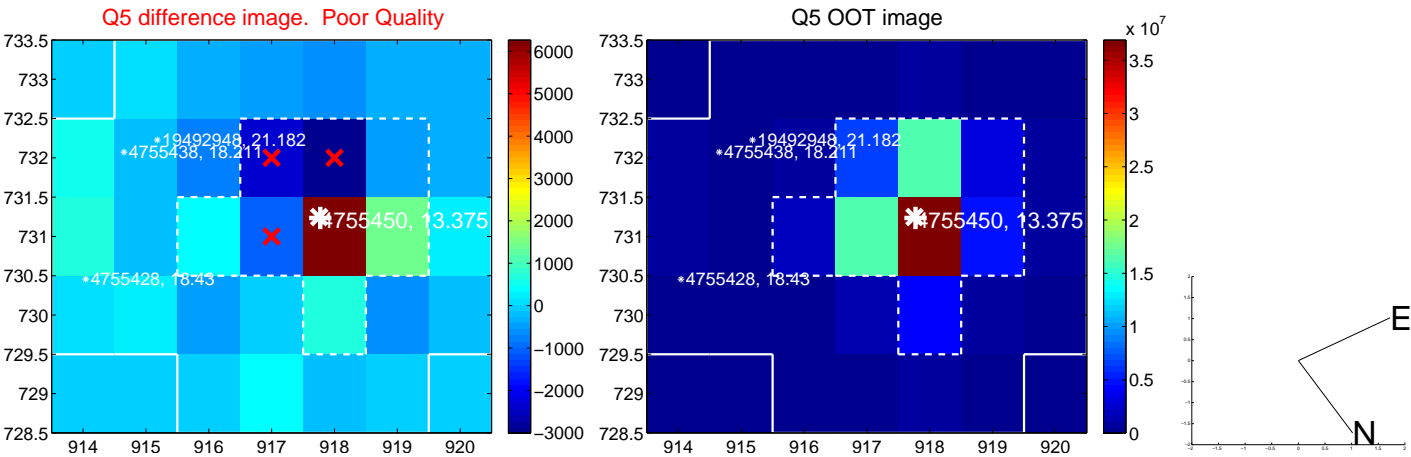


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

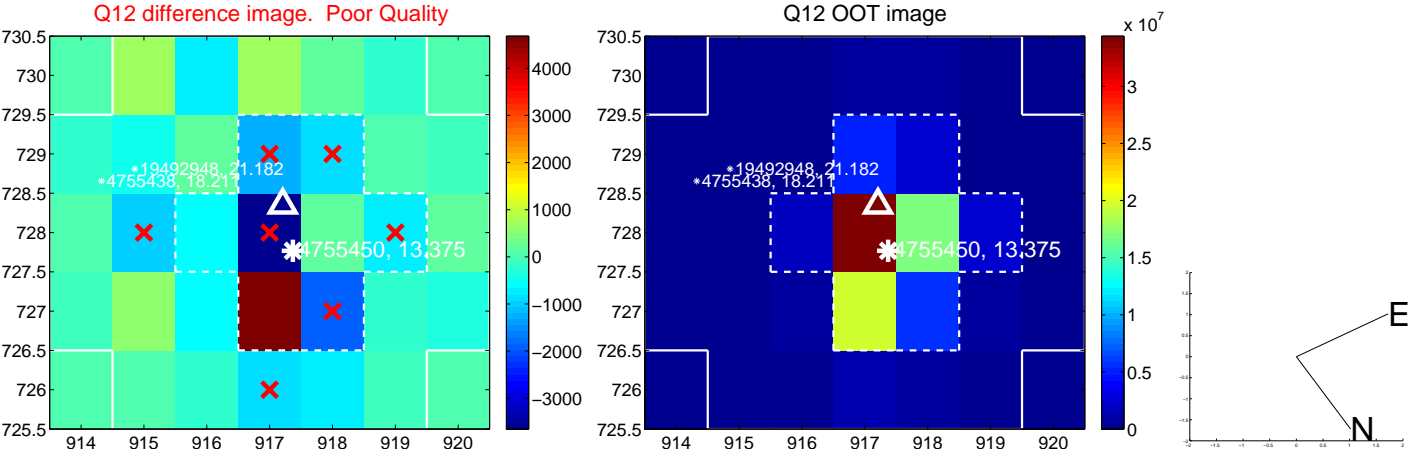
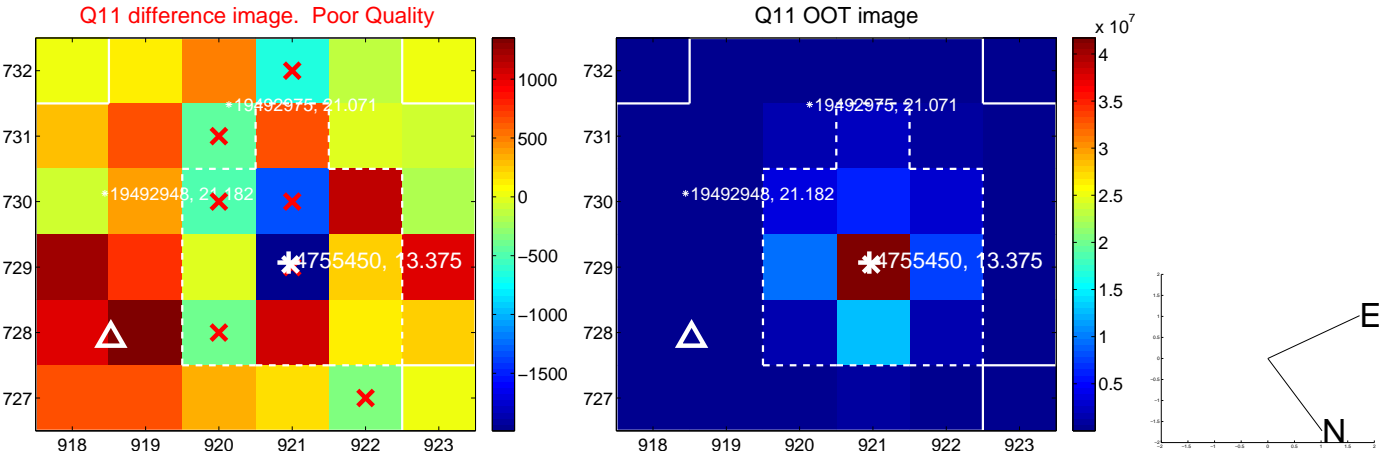
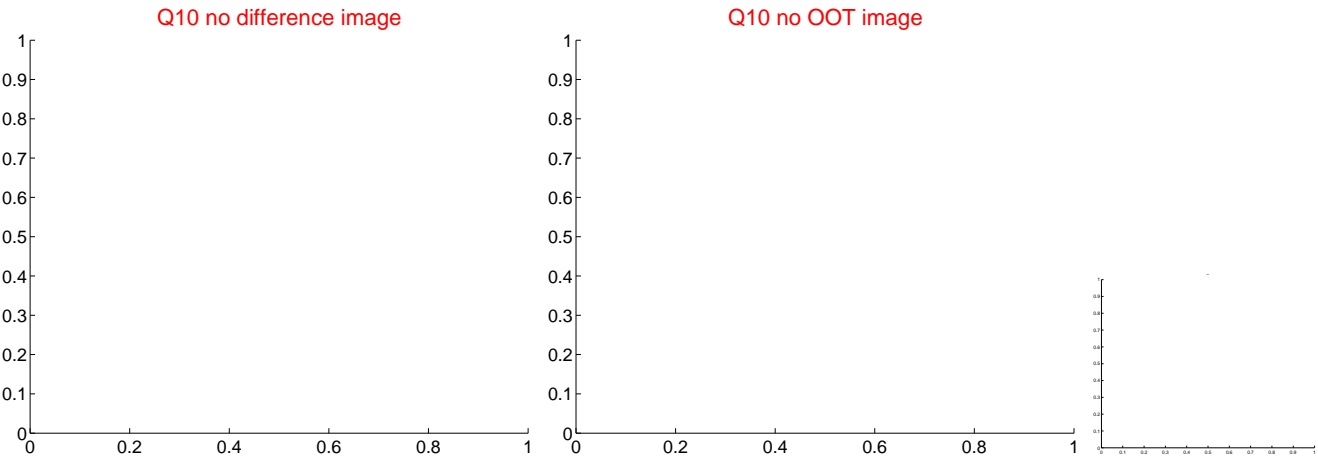
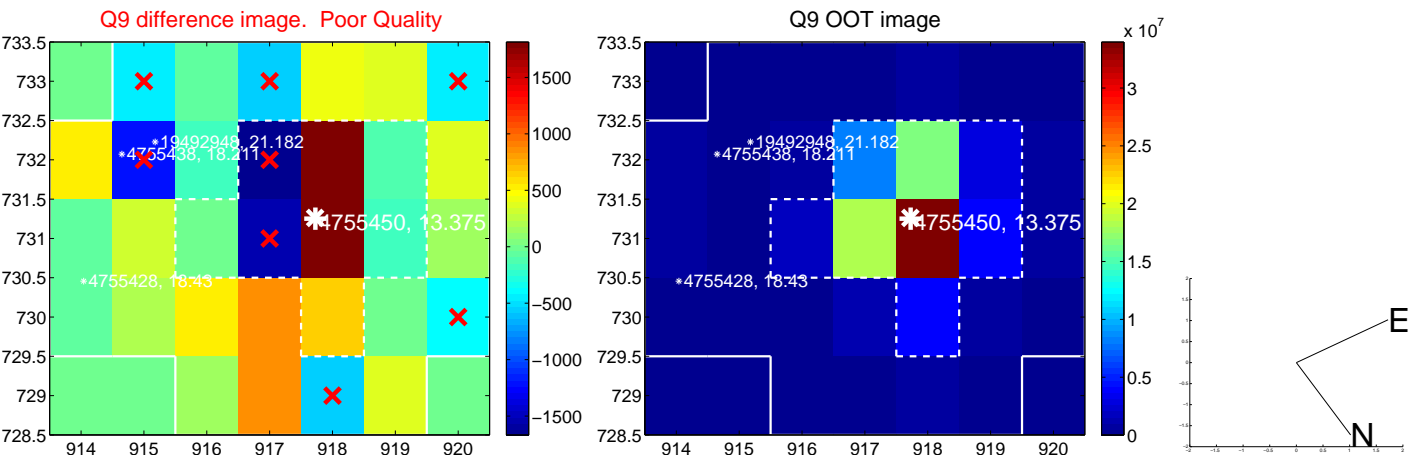
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



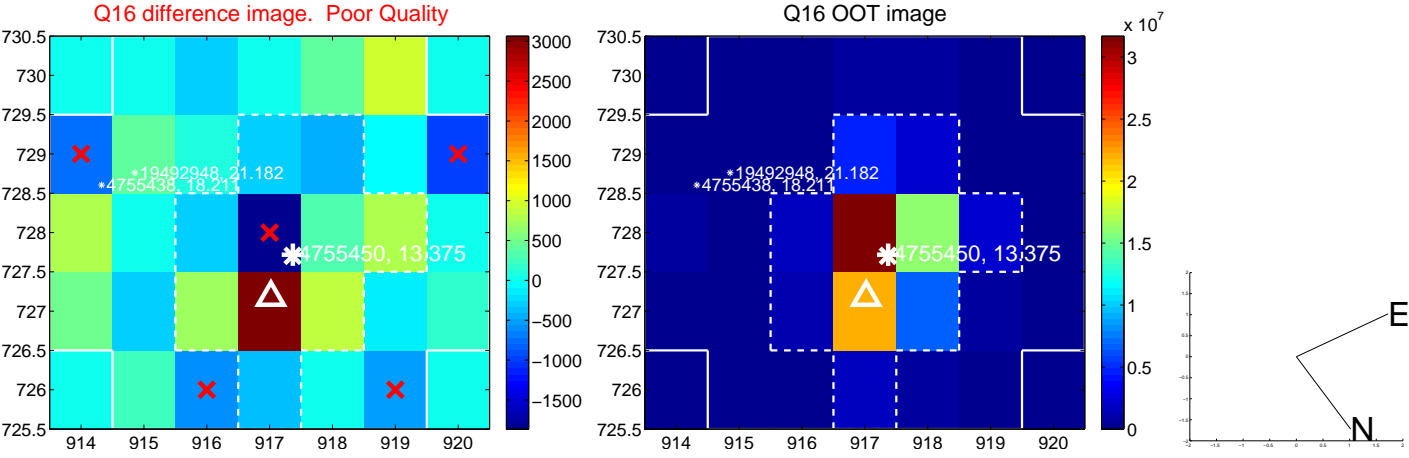
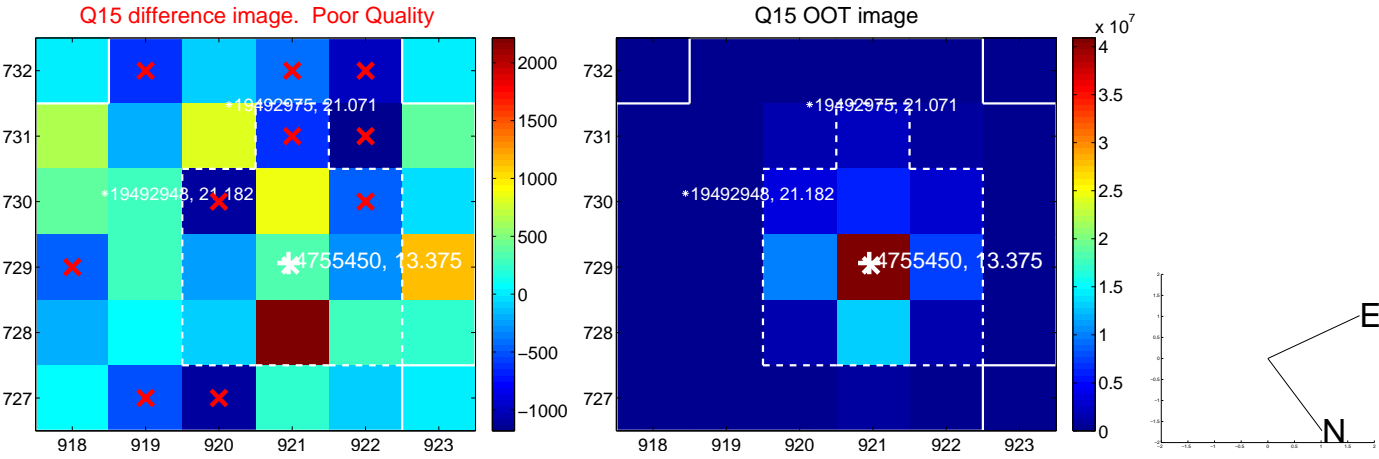
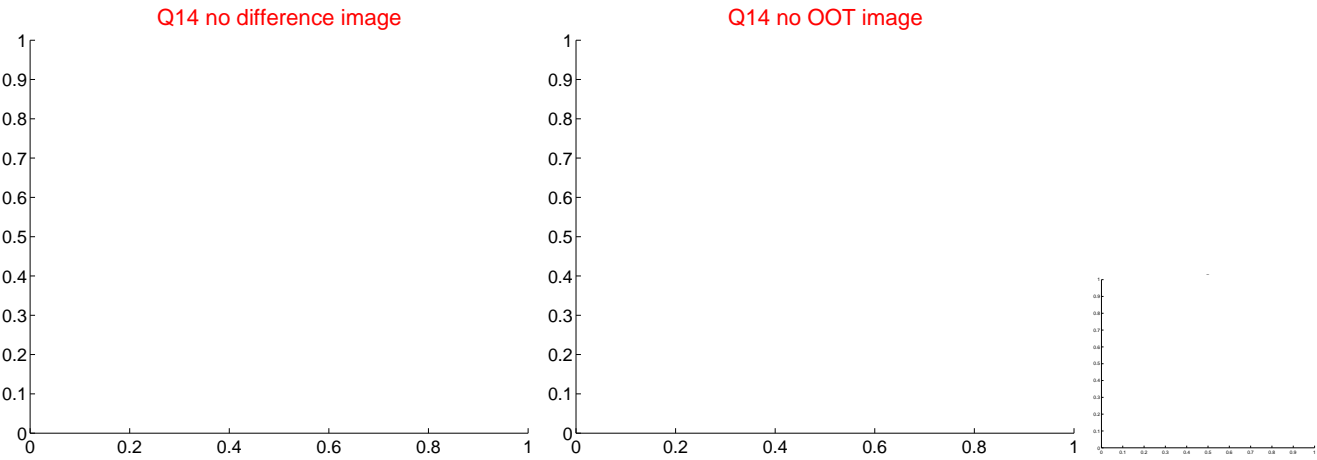
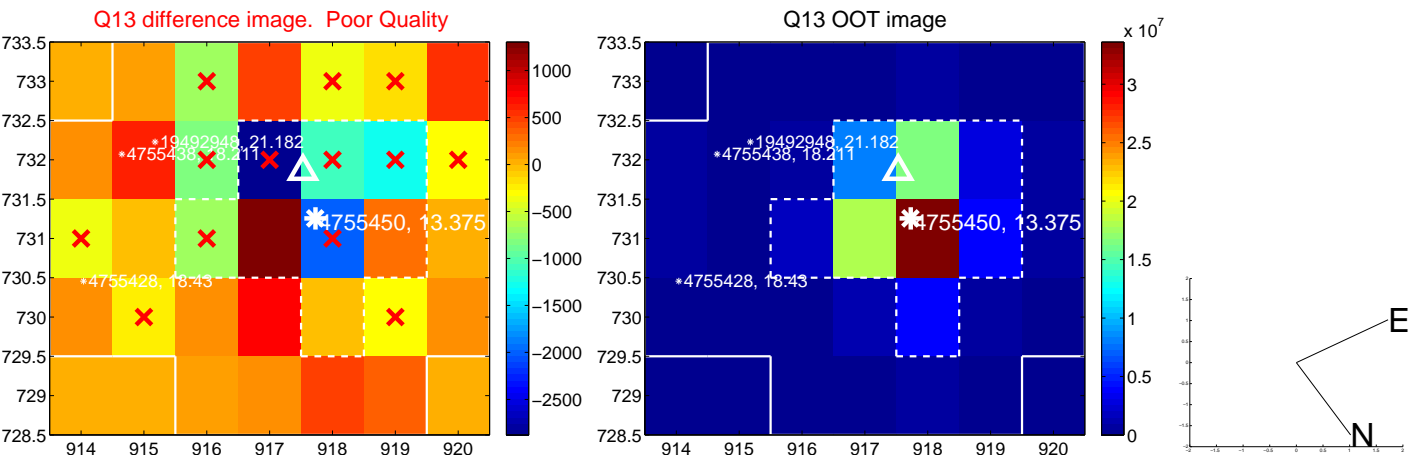
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



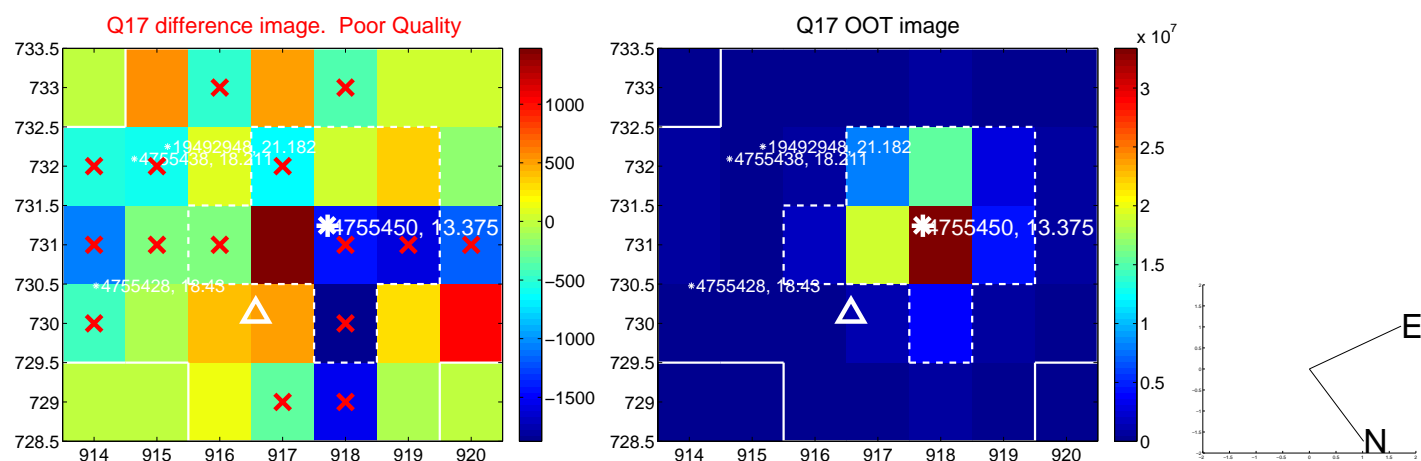
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



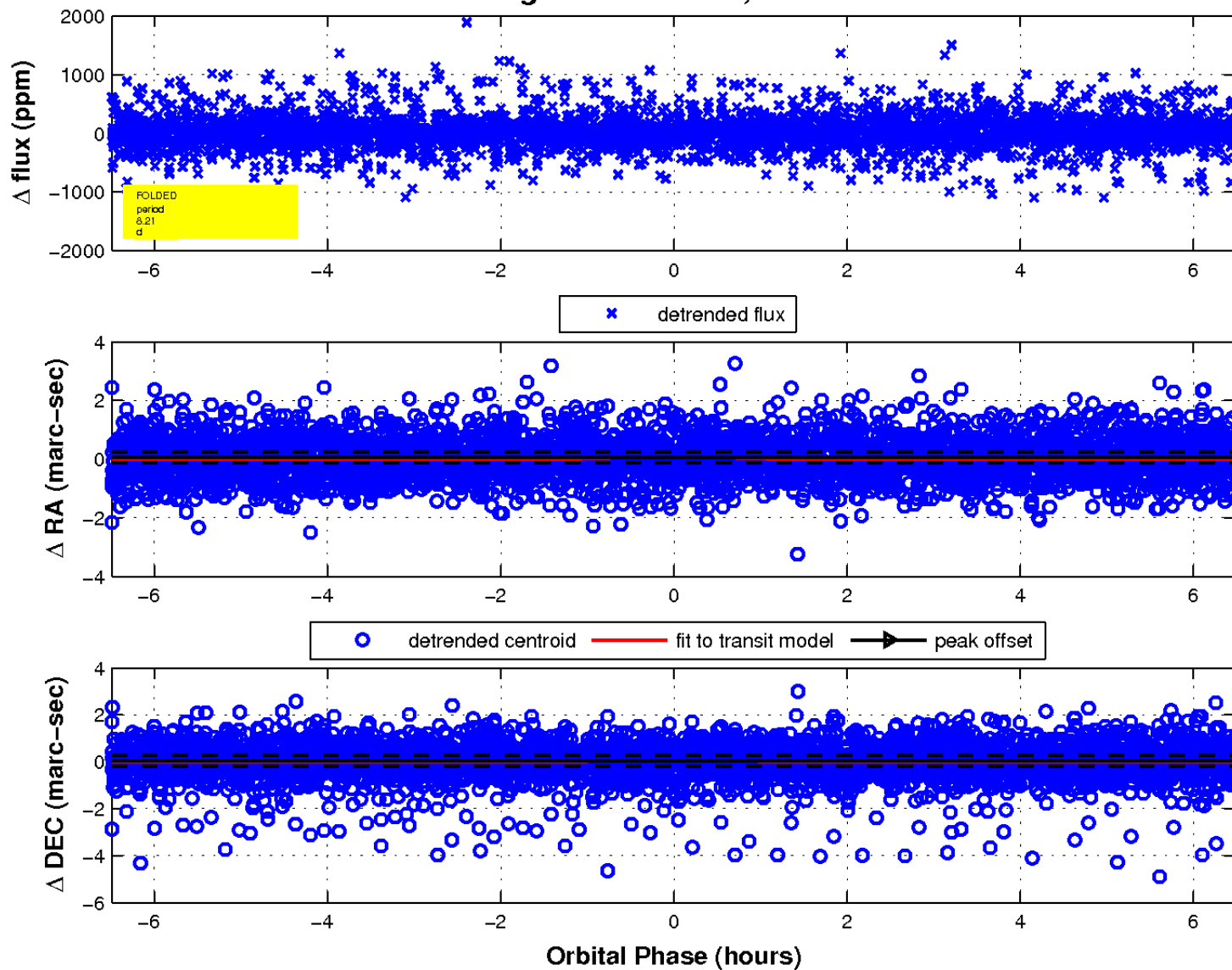
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

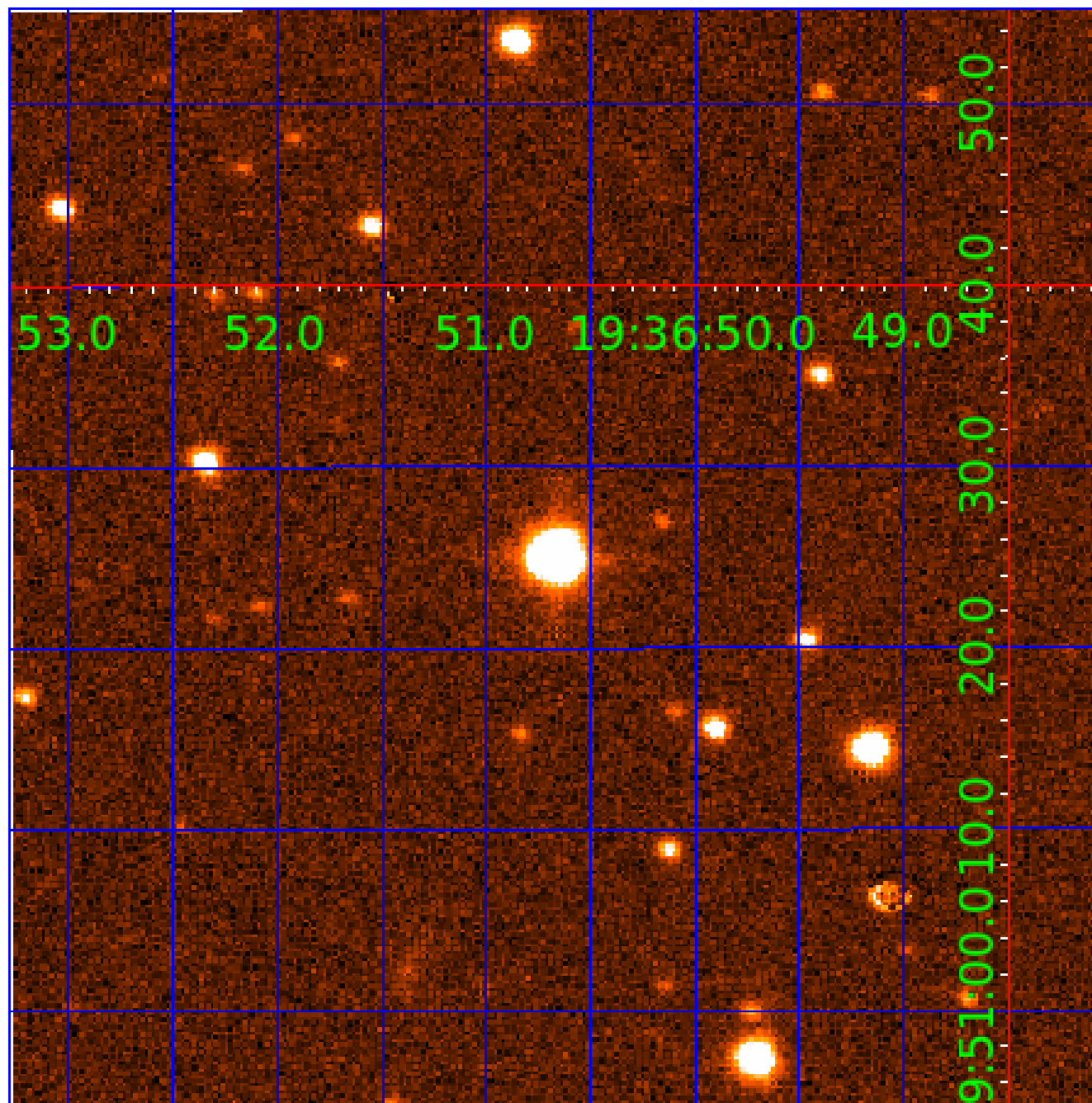


fluxWeightedCentroids, Planet 6 of 8



UKIRT Image

Declination



KIC 004755450

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})
004755450-01	OBS	No	0.507703	131.633551	21.0	3.720	7.9	9.1	1.05	6459	0.53	10550.18
004755450-02	OBS	No	19.815919	142.581805	991.3	1.250	17.0	16.5	1.05	6459	3.36	79.69
004755450-03	OBS	No	12.369838	138.856659	793.8	0.590	12.4	8.2	1.05	6459	3.26	149.37
004755450-04	OBS	No	7.125213	137.447743	721.4	0.957	12.4	14.5	1.05	6459	2.92	311.66
004755450-05	OBS	No	23.881304	131.829472	1382.3	0.701	11.7	15.3	1.05	6459	4.00	62.13
004755450-06	OBS	No	8.207509	137.955301	305.4	2.164	9.0	8.6	1.05	6459	1.85	258.10
004755450-07	OBS	No	7.947327	136.314372	477.7	1.843	11.3	10.3	1.05	6459	2.38	269.43
004755450-08	OBS	No	10.721633	139.666006	640.6	1.001	12.5	11.9	1.05	6459	2.87	180.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004755450-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS
004755450-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
004755450-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—CENT_FEW_DIFFS—HALO_GHOST
004755450-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

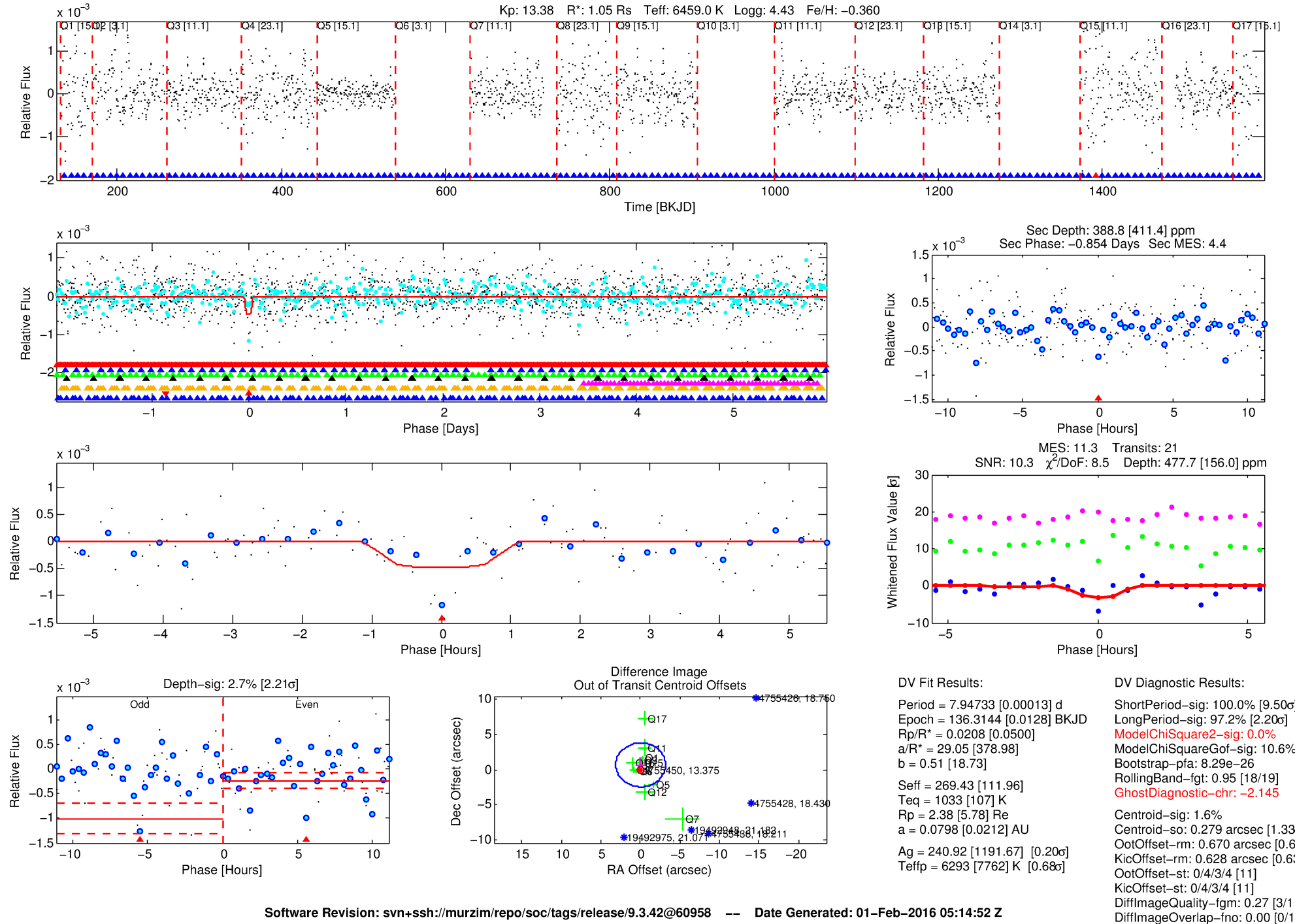
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004755450-07

No Significant Match Found

DV One-Page Summary

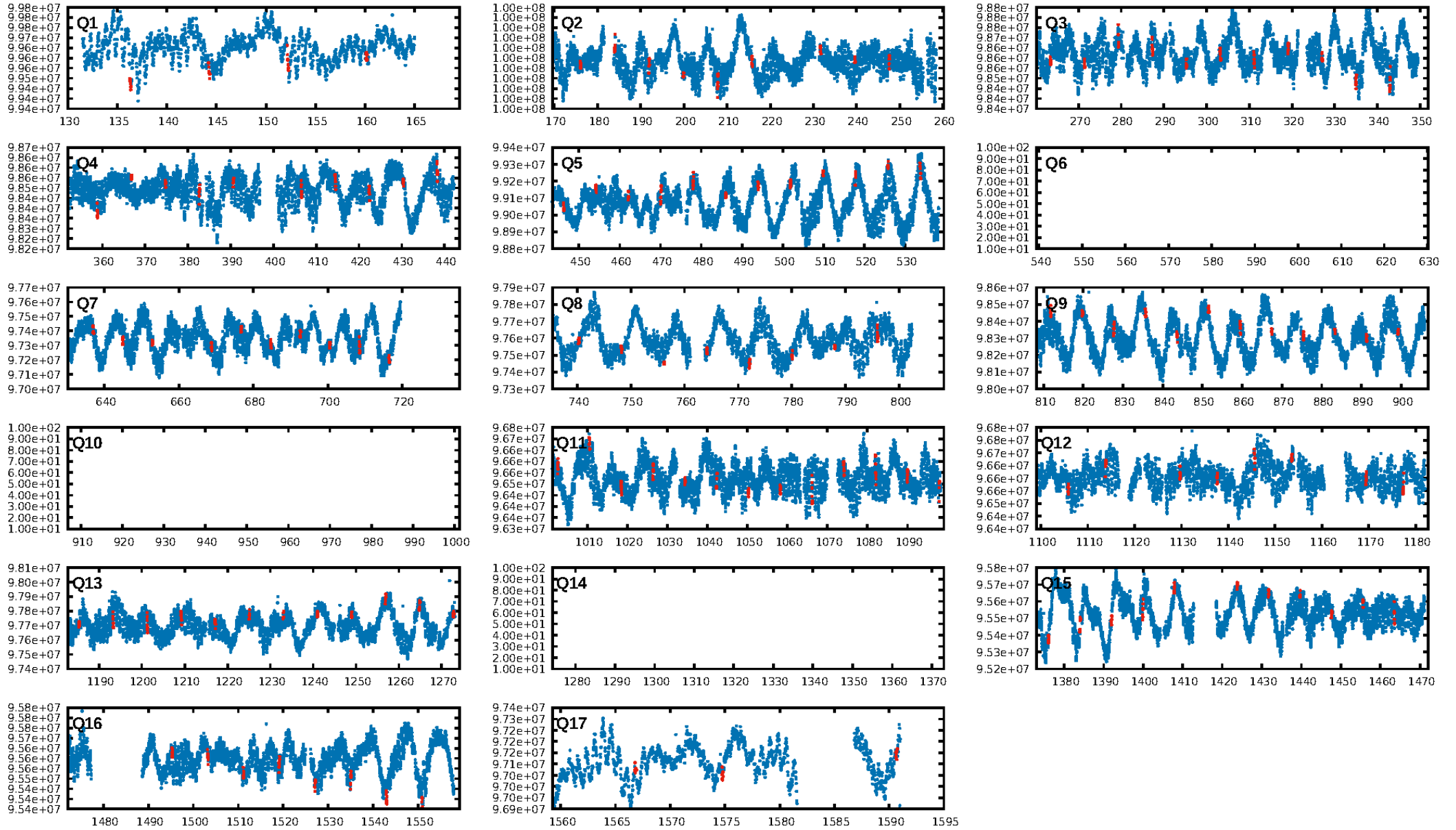
KIC: 4755450 Candidate: 7 of 8 Period: 7.947 d



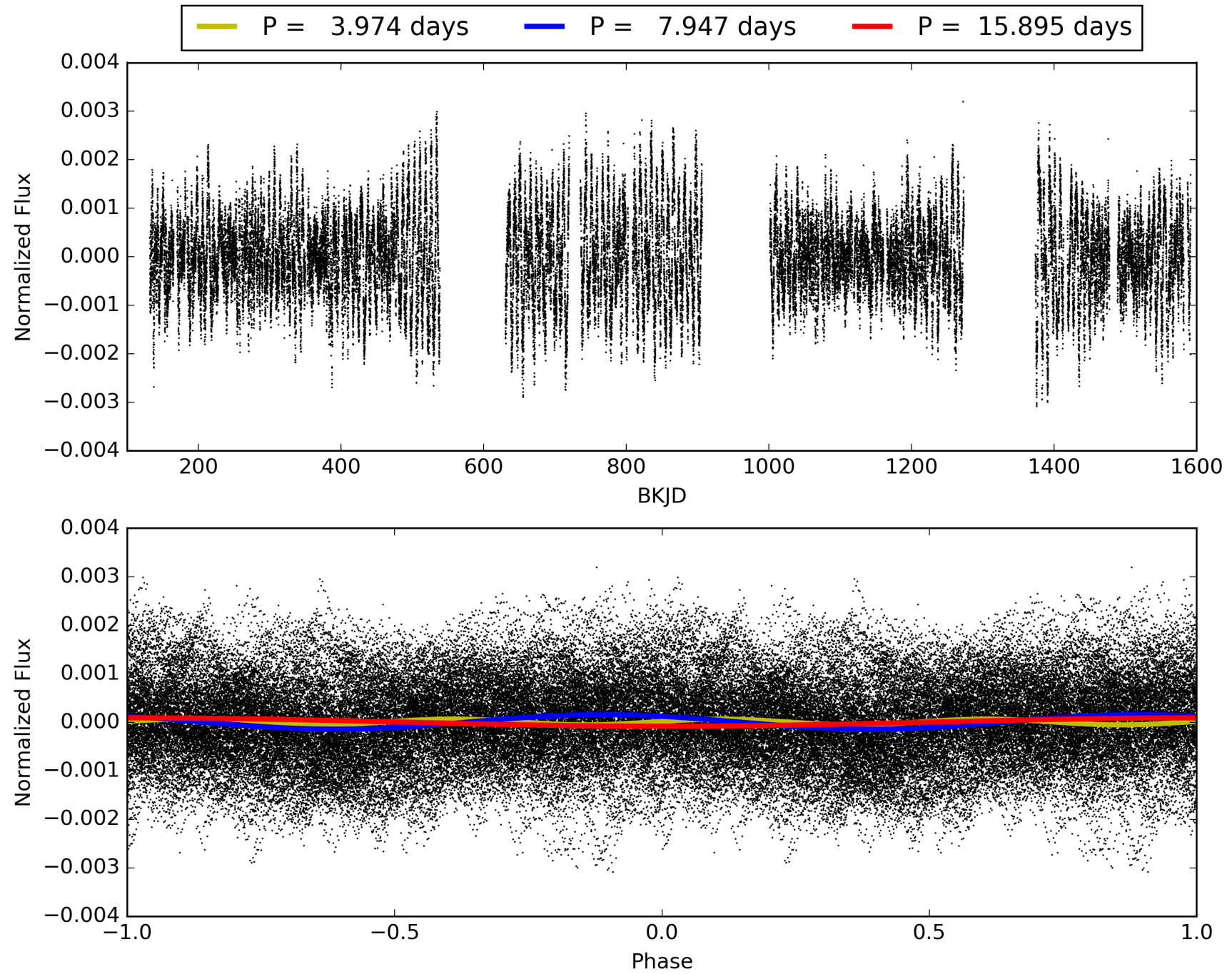
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 05:14:52 Z

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

TCE 004755450-07, PDC Light Curves

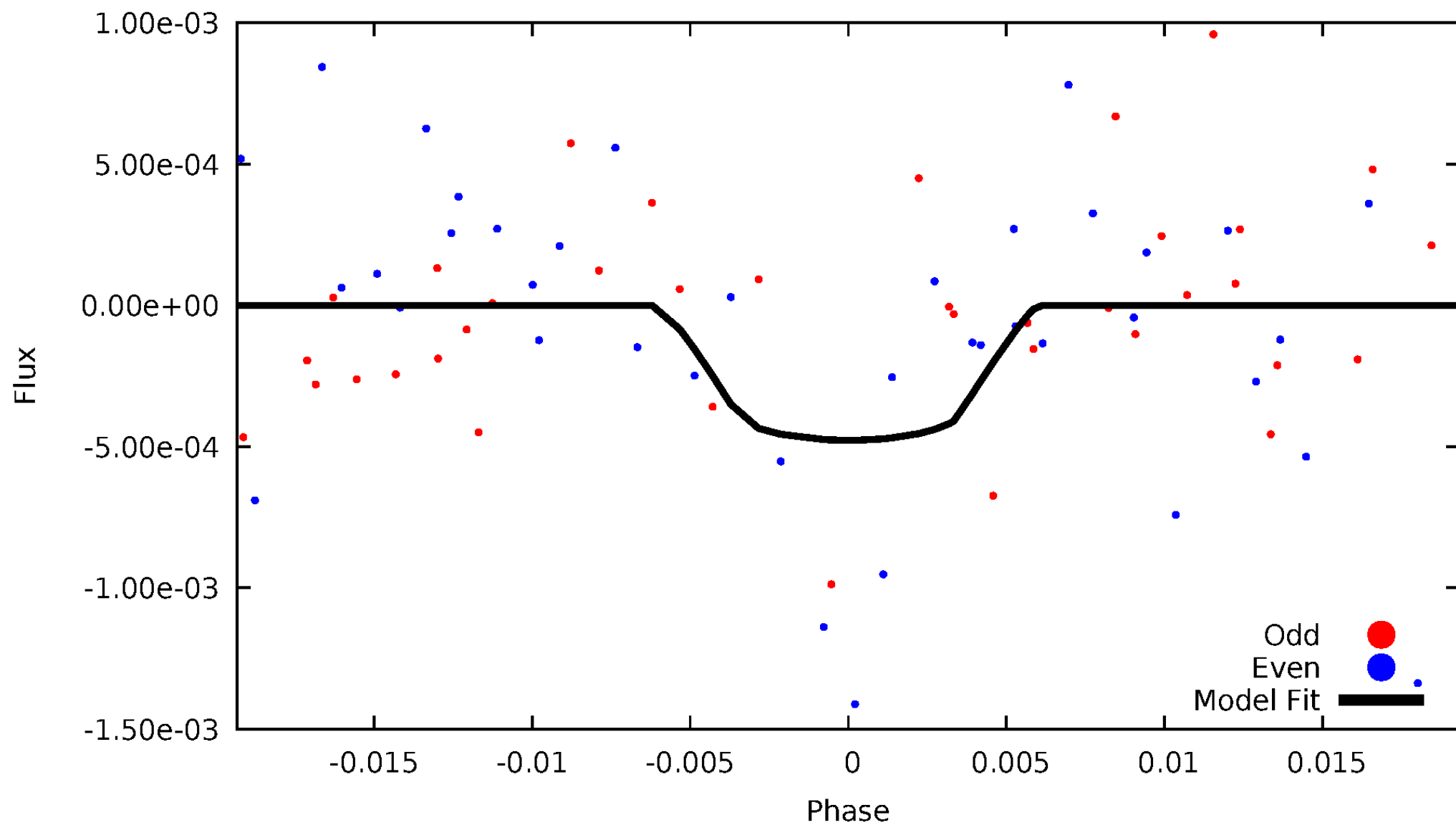


TCE 004755450-07



DV Odd/Even

TCE 004755450-07

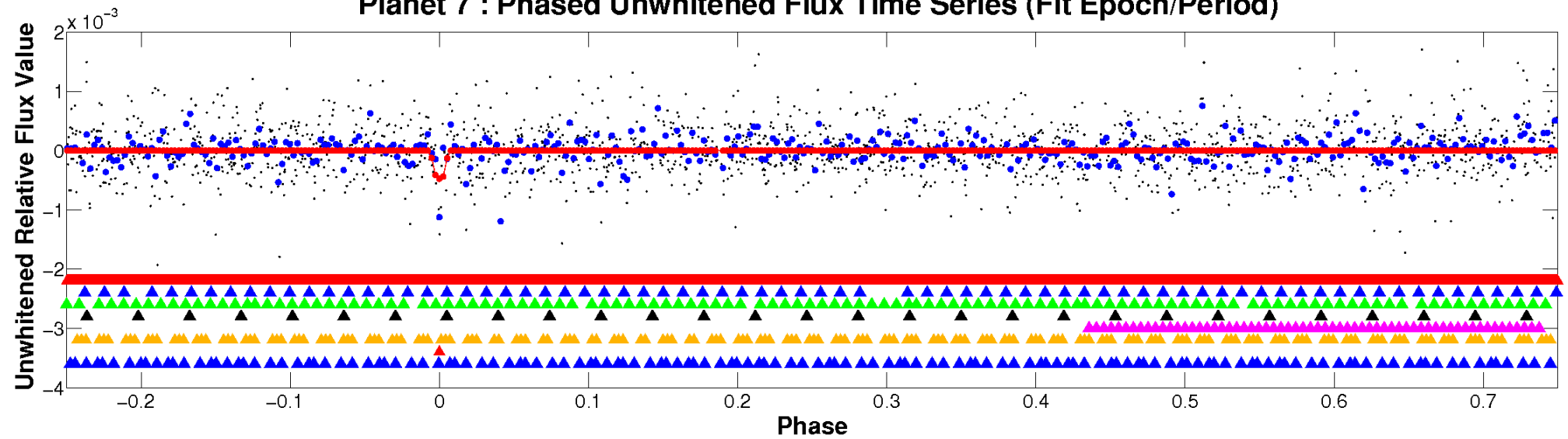


ALT Odd/Even

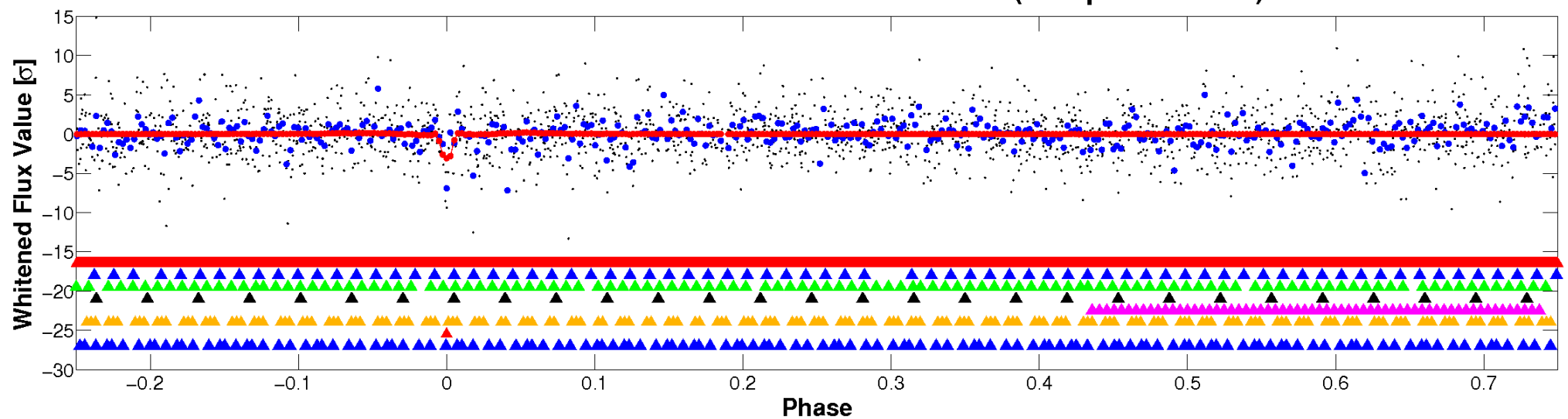
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

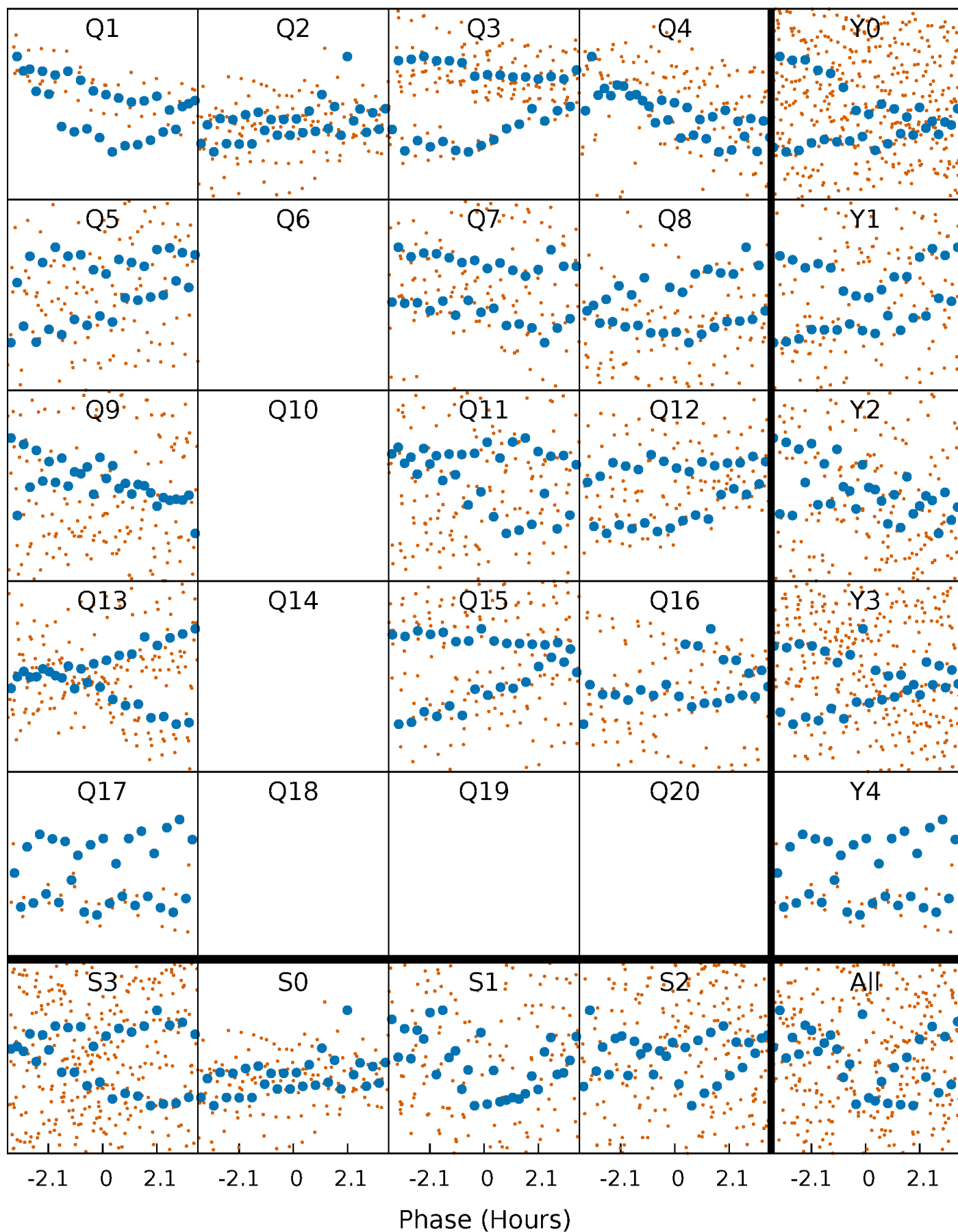


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



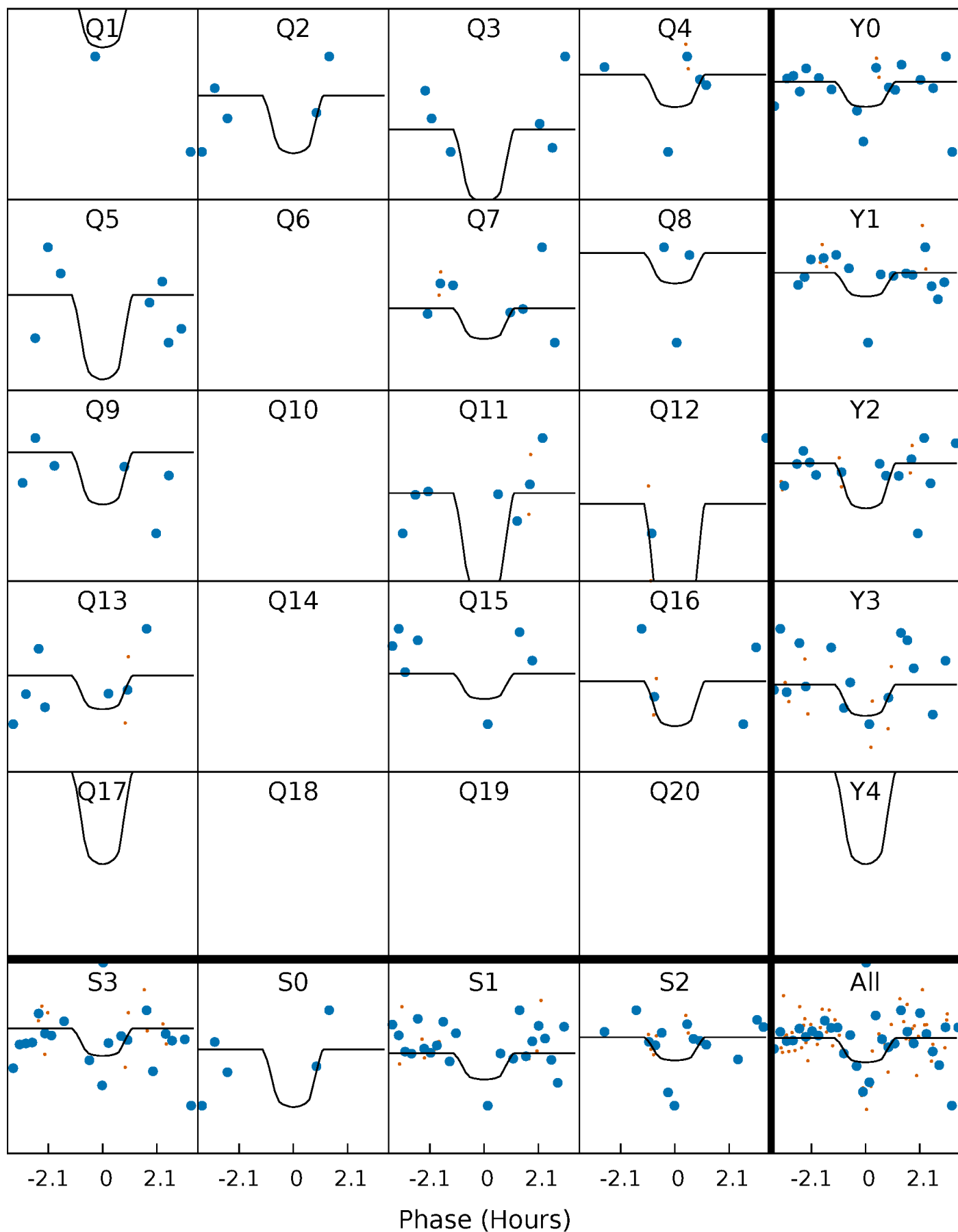
PDC Quarter-Phased Transit Curves

TCE 004755450-07 $P = 7.947327$ Days $T_0 = 136.314372$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 004755450-07 $P = 7.947327$ Days $T_0 = 136.314372$ (BKJD)

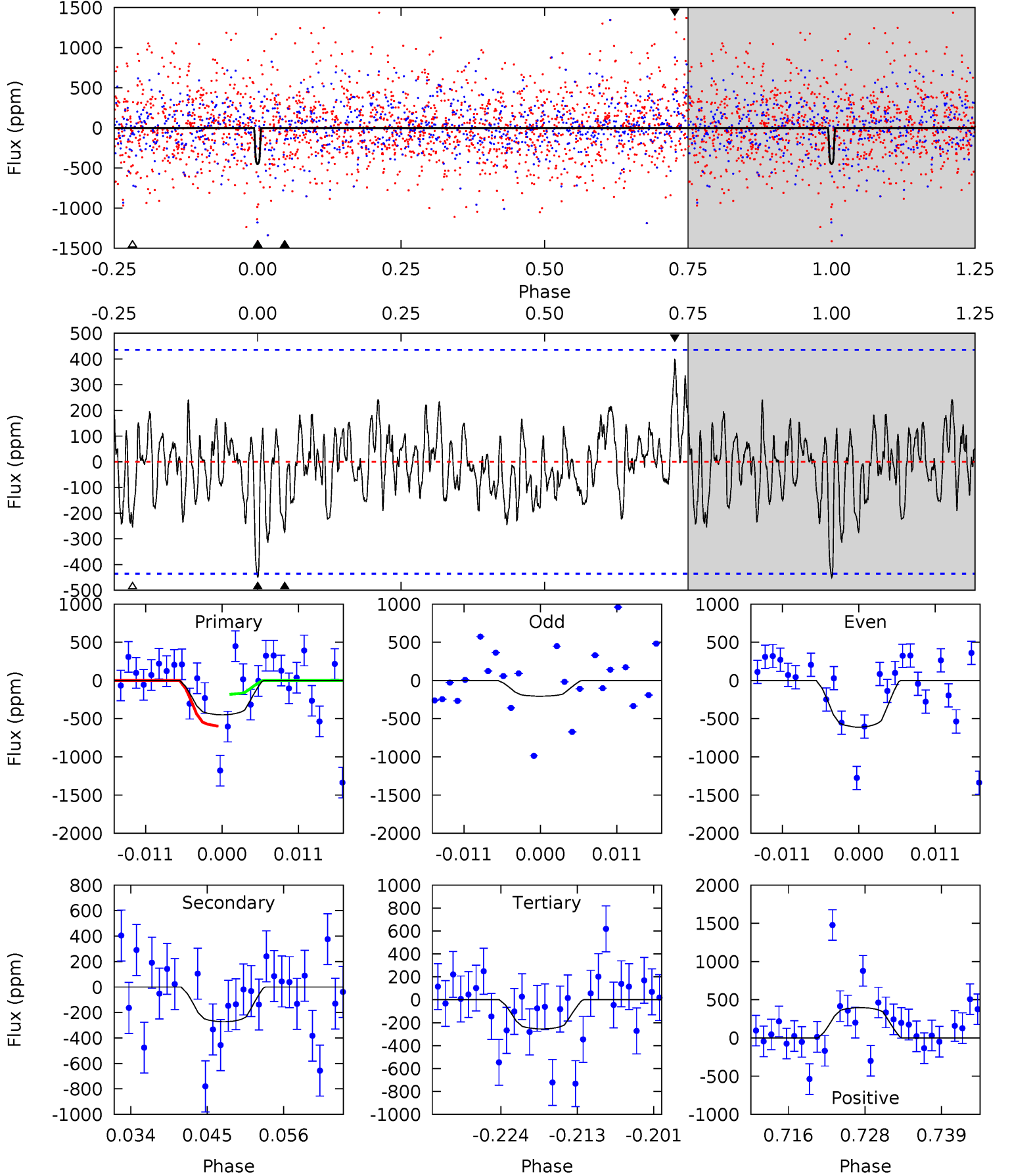


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

004755450-07, P = 7.947327 Days, E = 128.367045 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.17	3.13	2.93	4.57	5.00	2.54	1.27	2.24	0.60	0.21	-1.43	2.33	1.00	0.47	2.27



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 004755450

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6459^{+181}_{-250}	$4.427^{+0.070}_{-0.210}$	$-0.360^{+0.250}_{-0.350}$	$1.049^{+0.333}_{-0.133}$	$1.071^{+0.161}_{-0.146}$	$1.306^{+0.385}_{-0.710}$
	+3%/-4%	+2%/-5%	+69%/-97%	+32%/-13%	+15%/-14%	+29%/-54%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 004755450-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-273 ± 87	$5.03^{+5.10}_{-3.45}$	1475^{+107}_{-86}	4282^{+2842}_{-919}	37^{+303}_{-28}
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 $A_{\text{obs}} \gg 1.0$

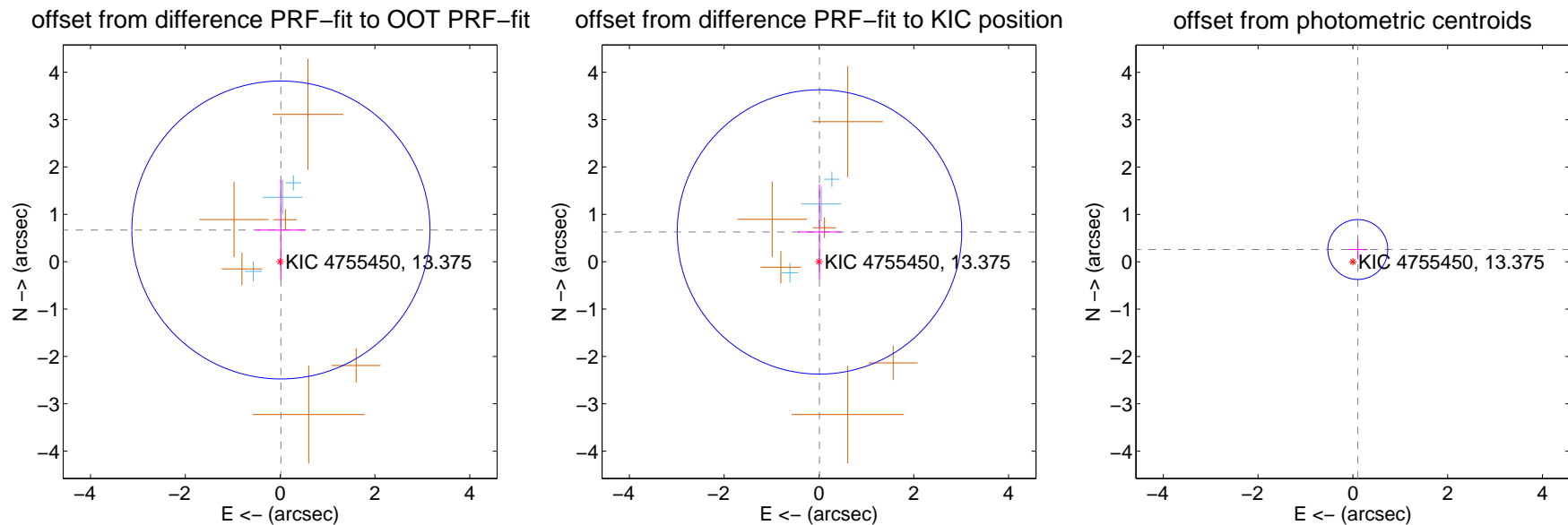
DV Centroid Data

Supplemental centroid analysis for 004755450-07. Kepler magnitude: 13.38. Transit SNR 10.33

There are 3 quarters with good PRF difference image offsets

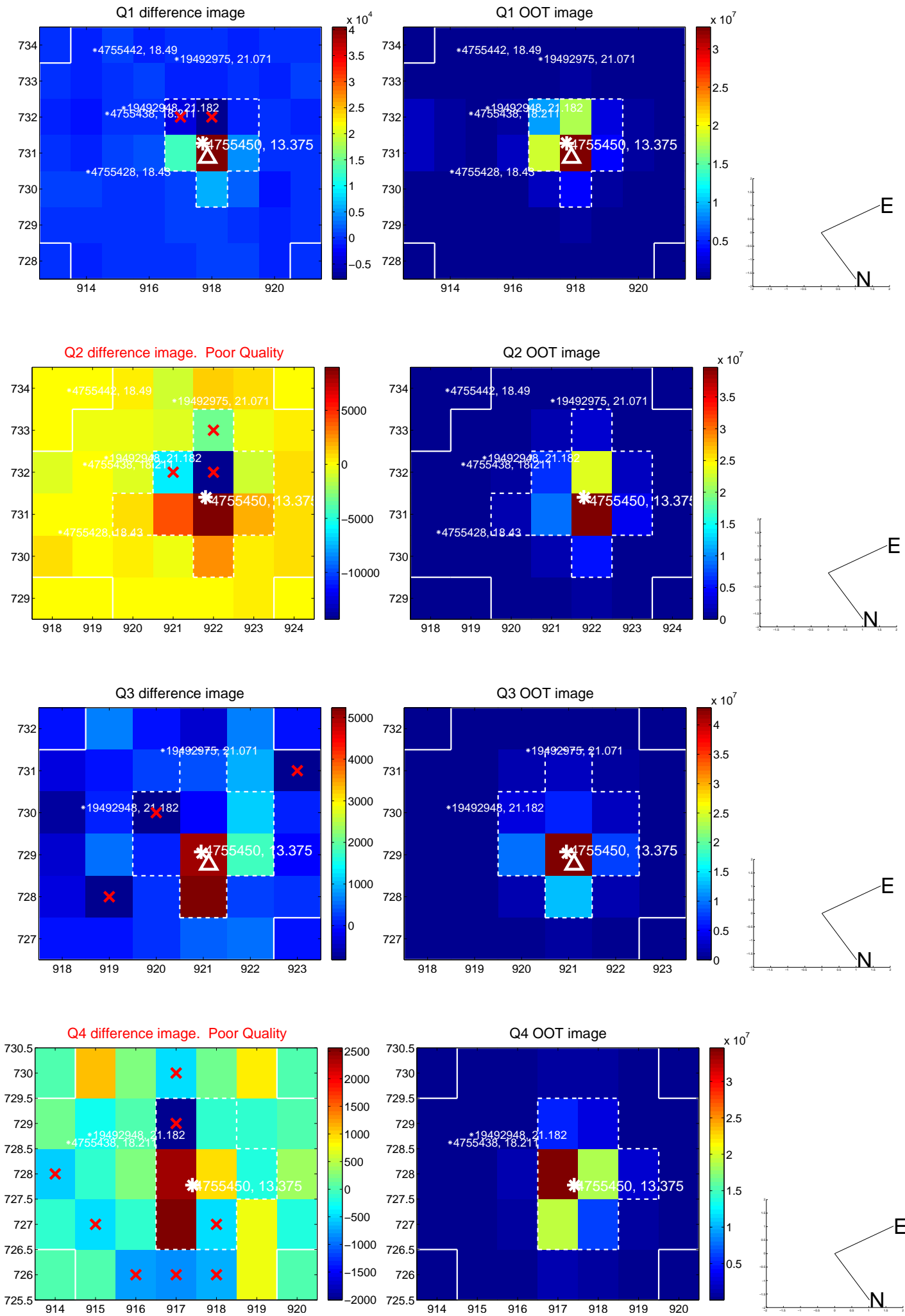
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.670 ± 1.048	0.64	-0.017 ± 0.525	0.669 ± 1.057
PRF-fit source offset from KIC position	0.628 ± 1.000	0.63	-0.010 ± 0.457	0.628 ± 1.005
photometric centroid source offset	0.28 ± 0.21	1.33	-0.10 ± 0.21	0.26 ± 0.21

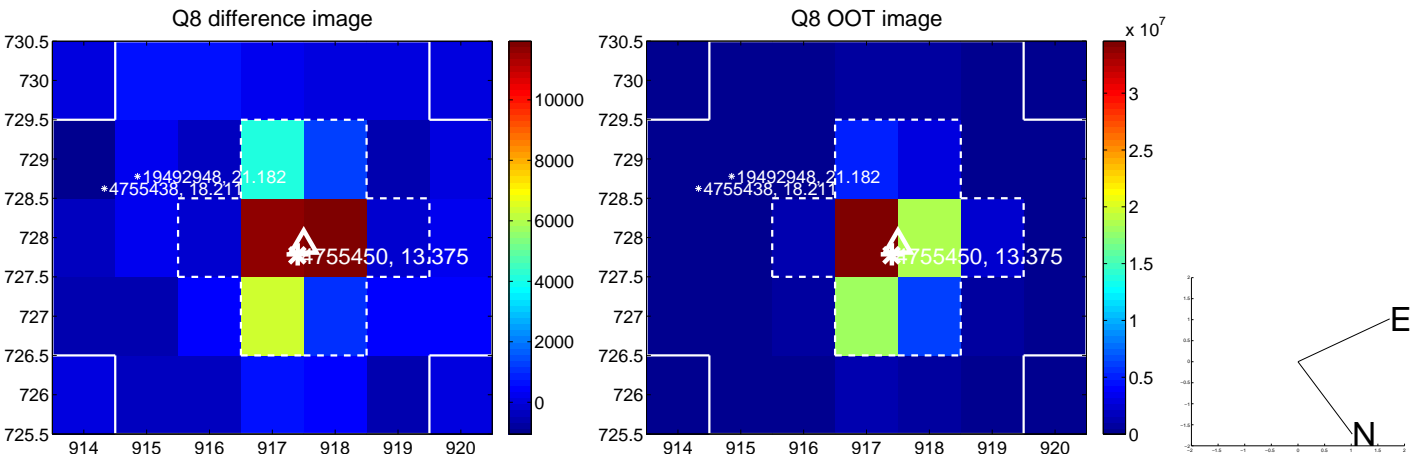
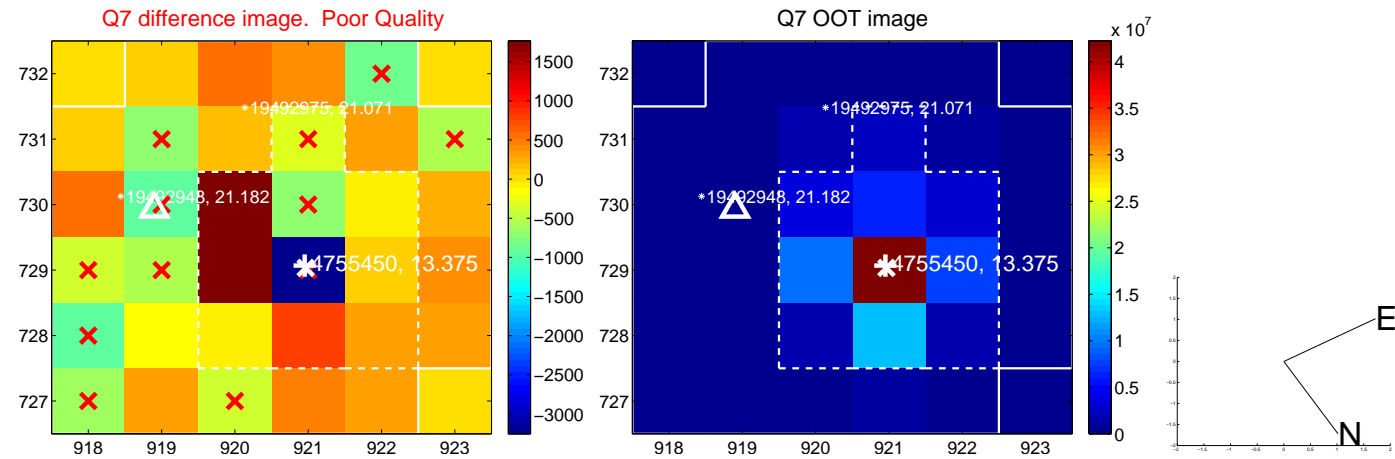
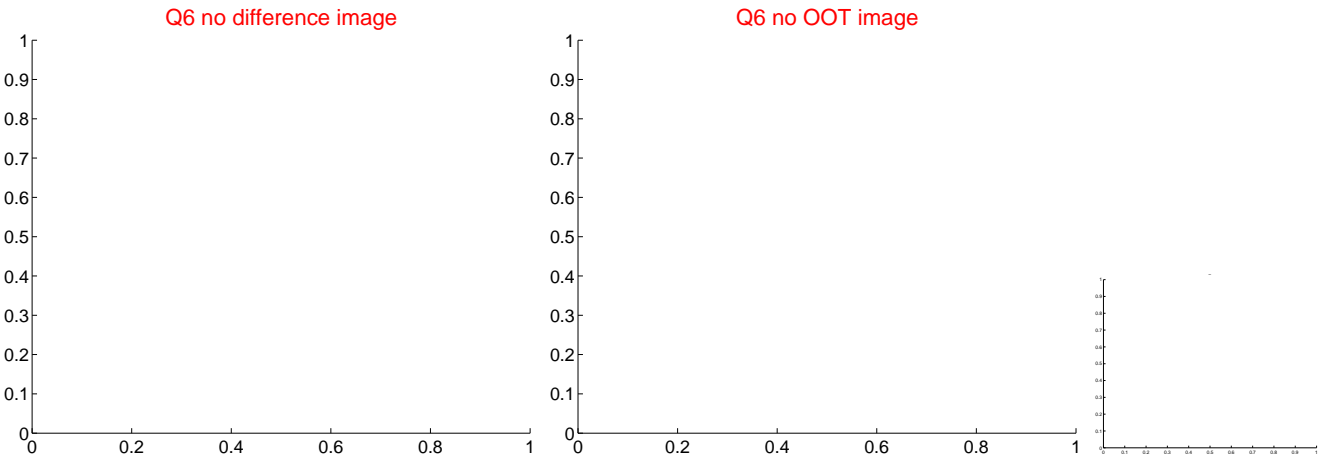
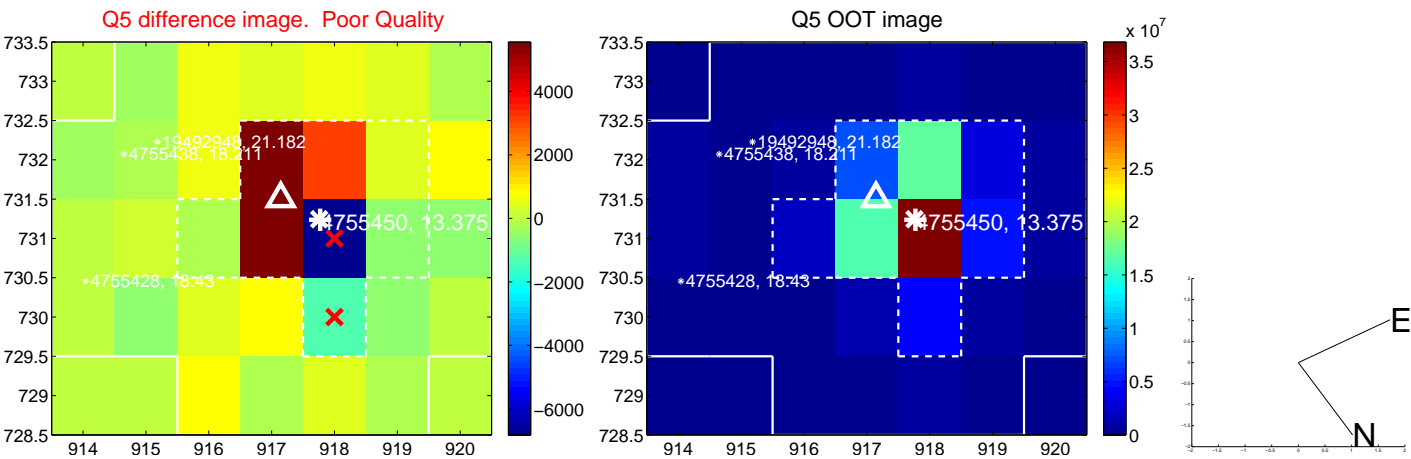


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

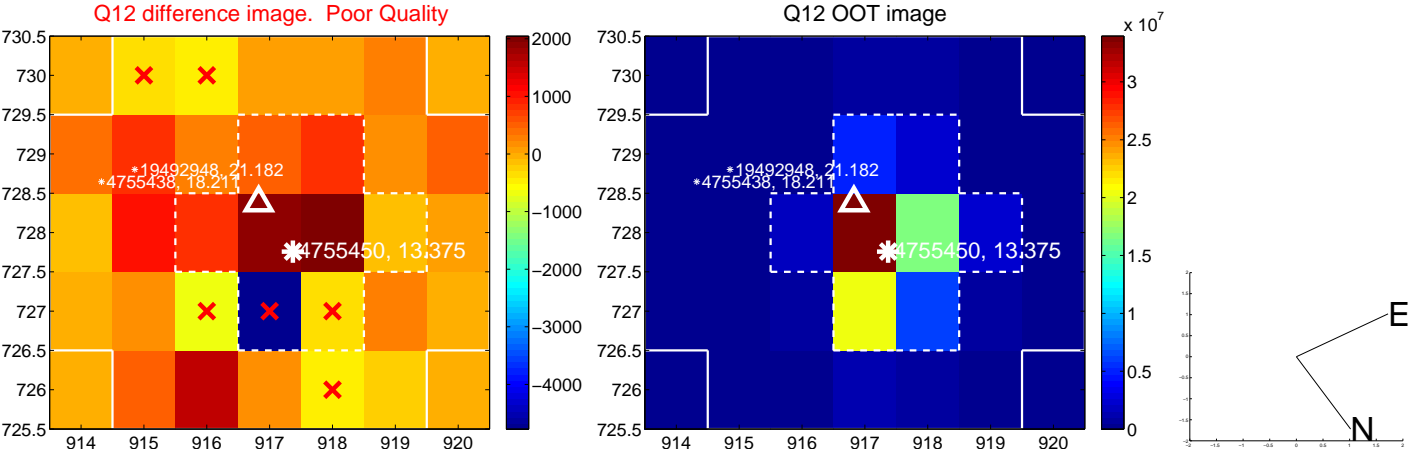
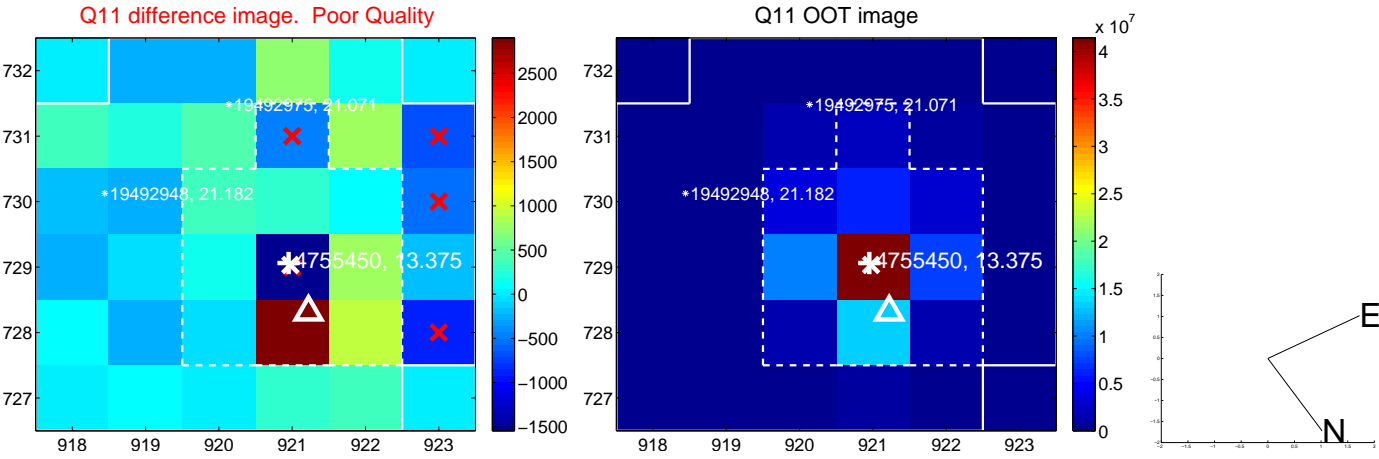
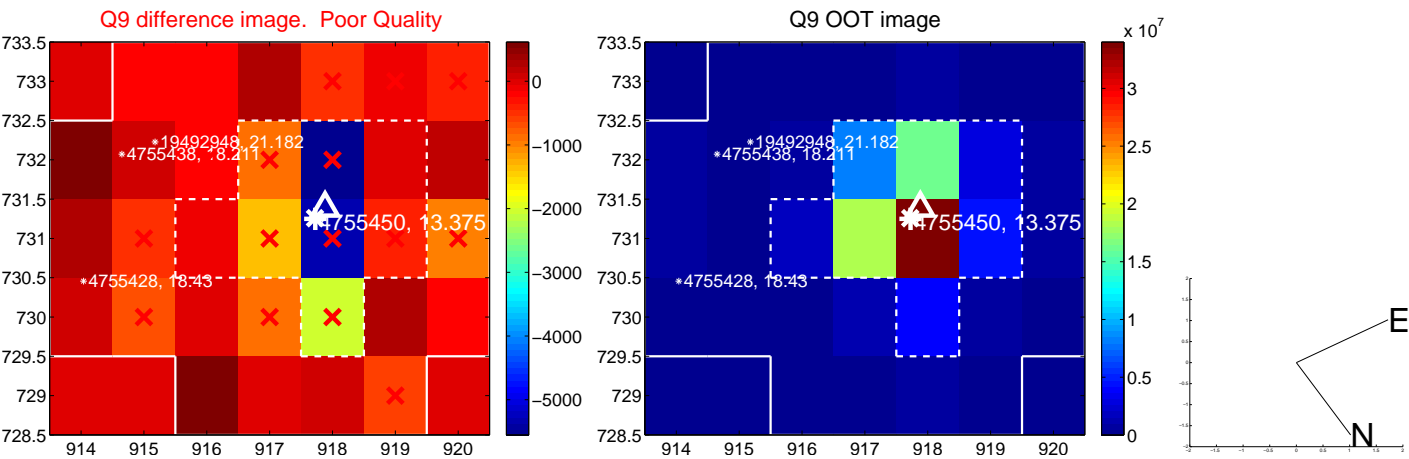
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



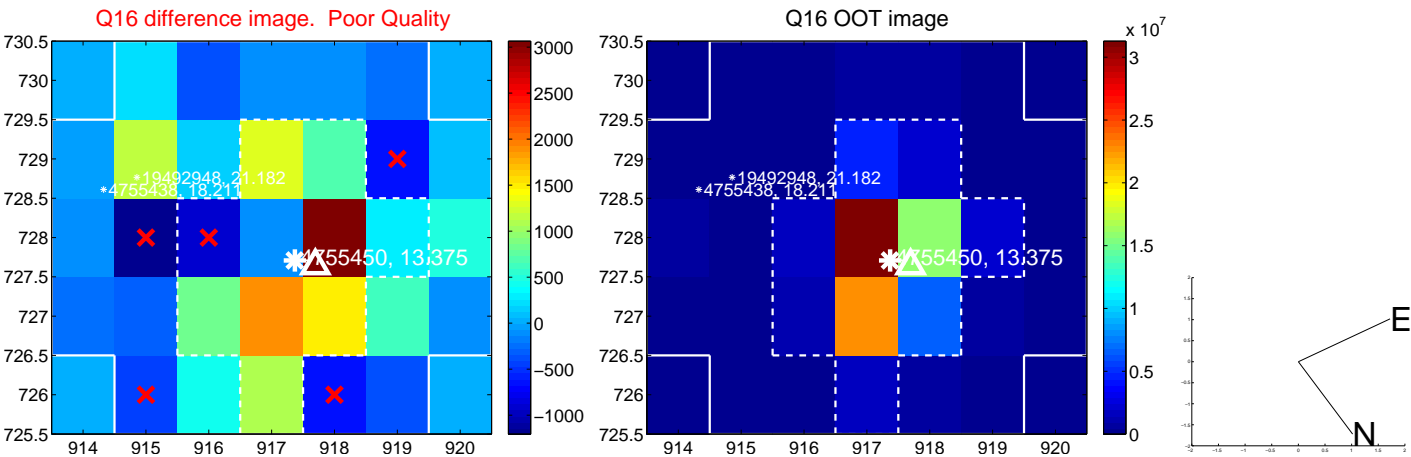
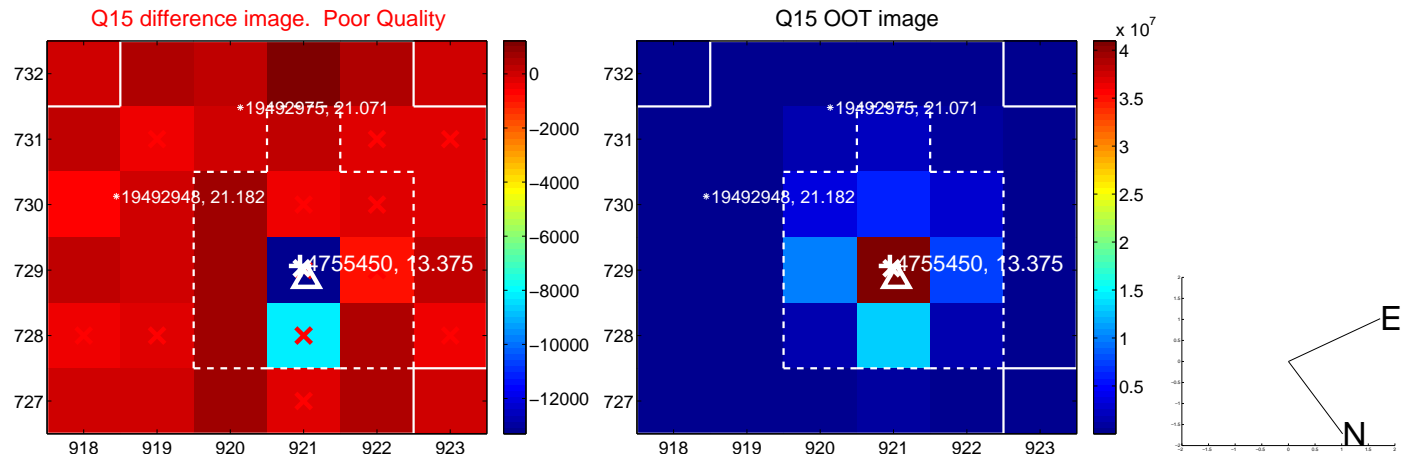
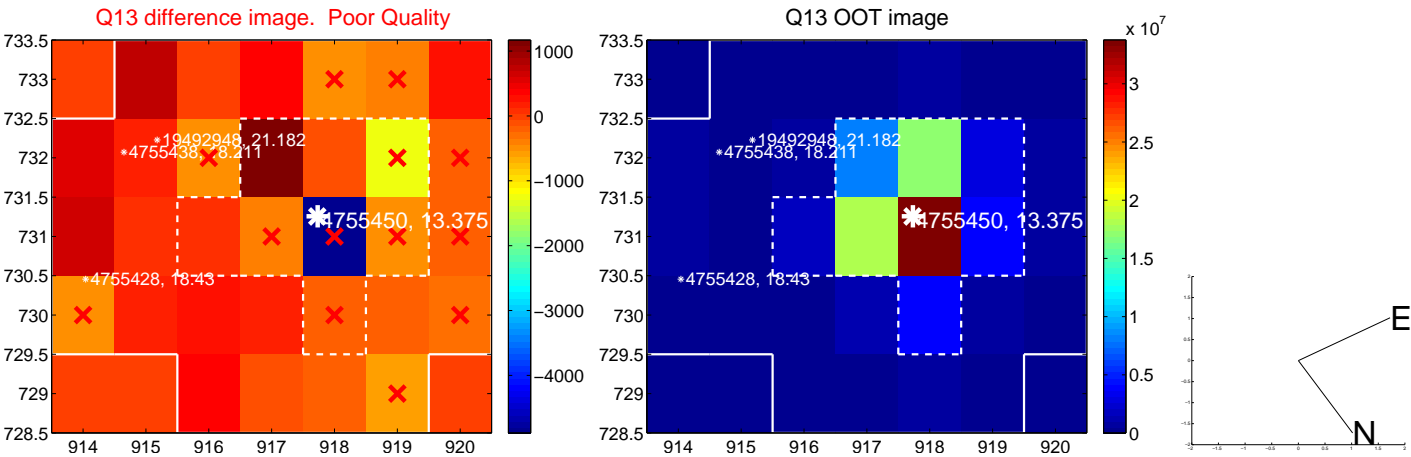
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



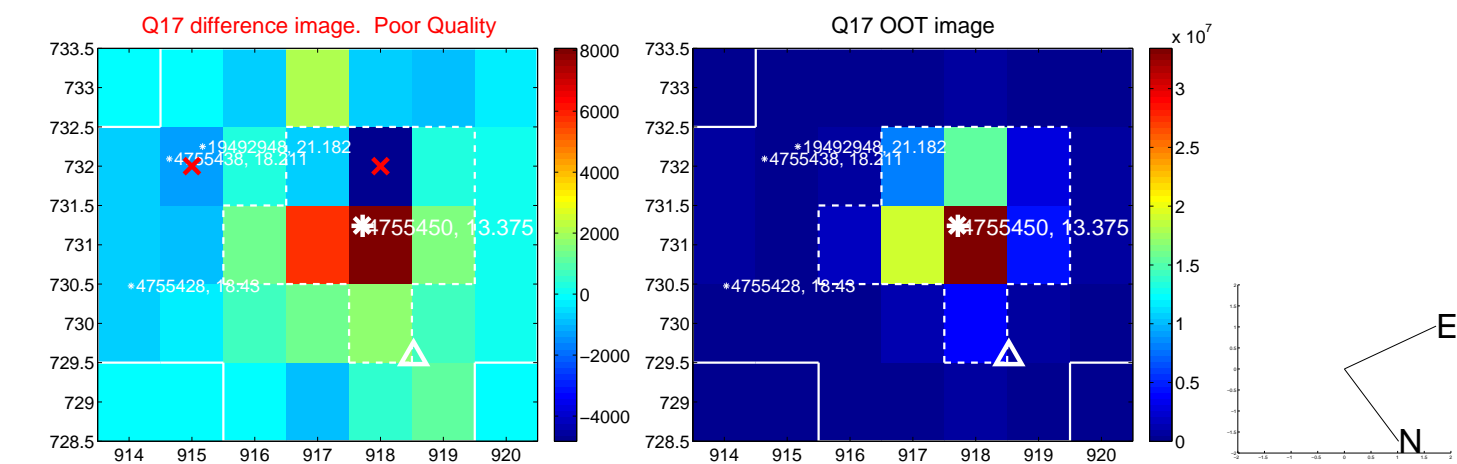
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



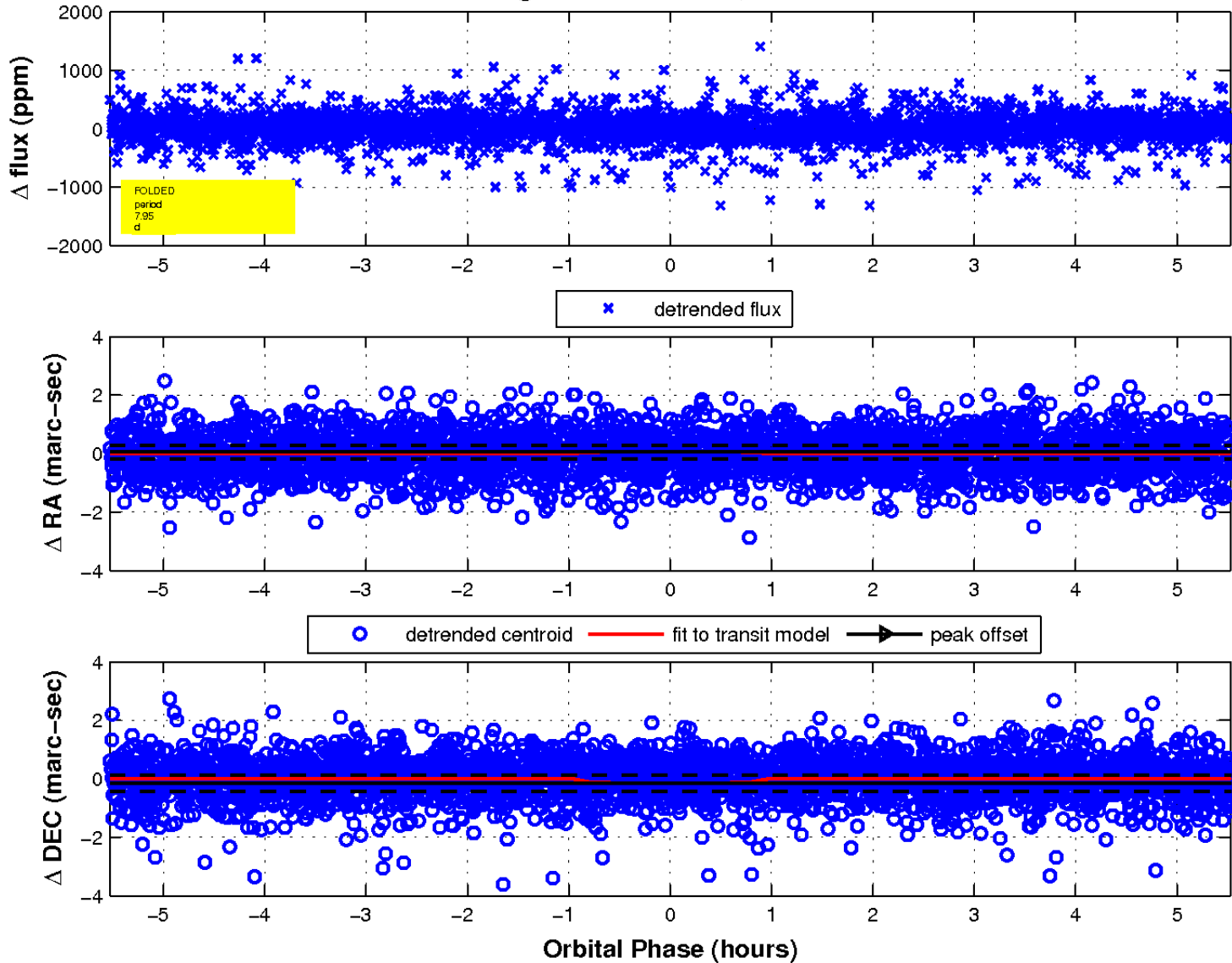
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

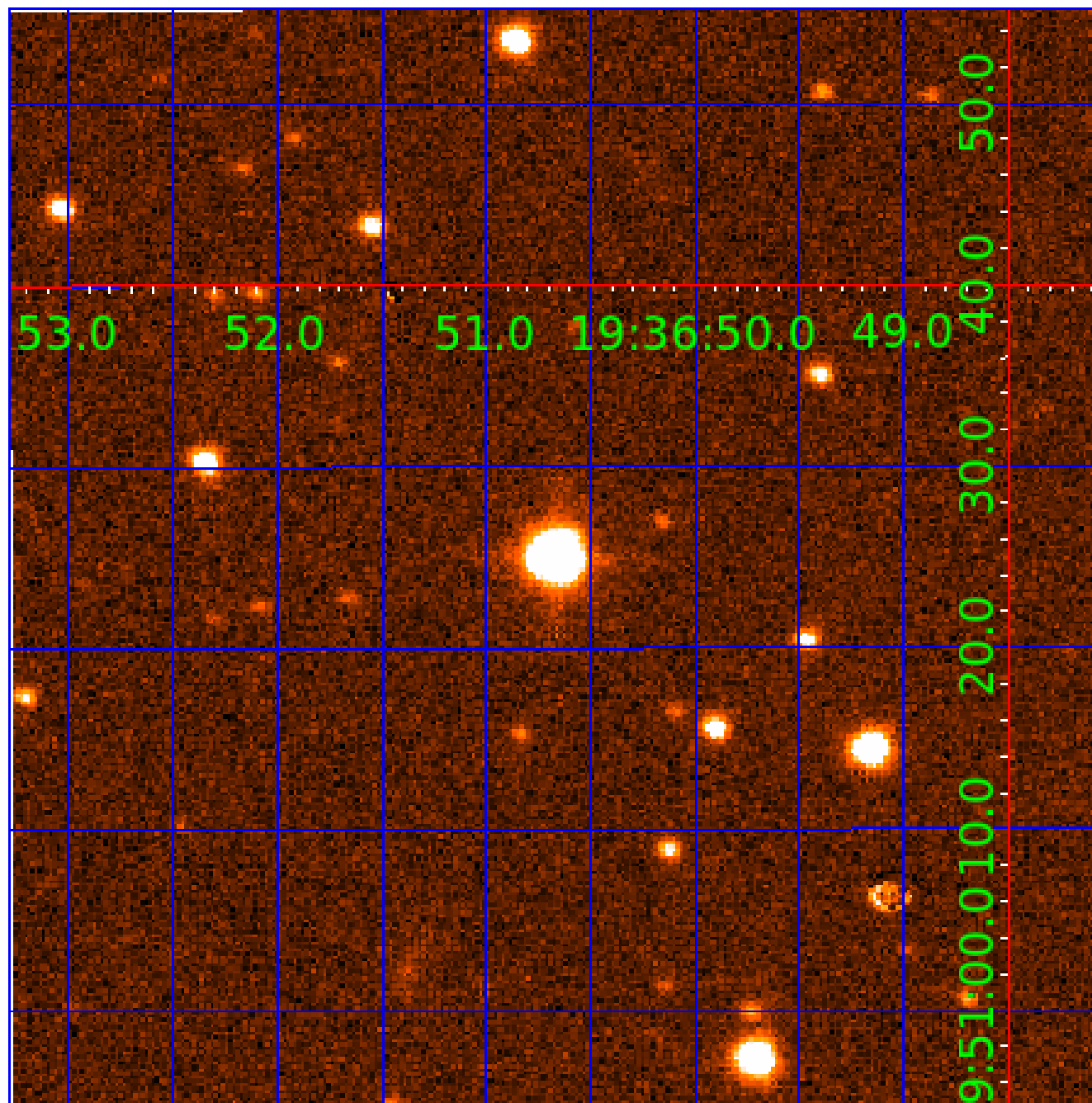


fluxWeightedCentroids, Planet 7 of 8



UKIRT Image

Declination



KIC 004755450

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})
004755450-01	OBS	No	0.507703	131.633551	21.0	3.720	7.9	9.1	1.05	6459	0.53	10550.18
004755450-02	OBS	No	19.815919	142.581805	991.3	1.250	17.0	16.5	1.05	6459	3.36	79.69
004755450-03	OBS	No	12.369838	138.856659	793.8	0.590	12.4	8.2	1.05	6459	3.26	149.37
004755450-04	OBS	No	7.125213	137.447743	721.4	0.957	12.4	14.5	1.05	6459	2.92	311.66
004755450-05	OBS	No	23.881304	131.829472	1382.3	0.701	11.7	15.3	1.05	6459	4.00	62.13
004755450-06	OBS	No	8.207509	137.955301	305.4	2.164	9.0	8.6	1.05	6459	1.85	258.10
004755450-07	OBS	No	7.947327	136.314372	477.7	1.843	11.3	10.3	1.05	6459	2.38	269.43
004755450-08	OBS	No	10.721633	139.666006	640.6	1.001	12.5	11.9	1.05	6459	2.87	180.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004755450-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS
004755450-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV
004755450-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—CENT_FEW_DIFFS—HALO_GHOST
004755450-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS
004755450-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
004755450-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

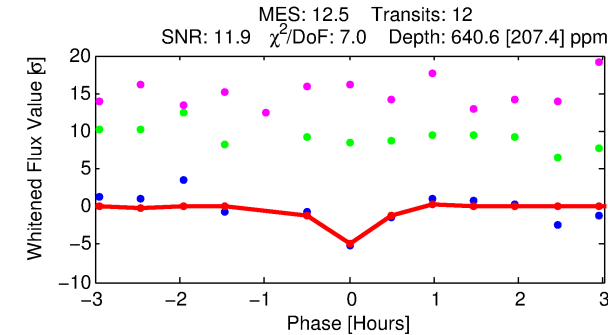
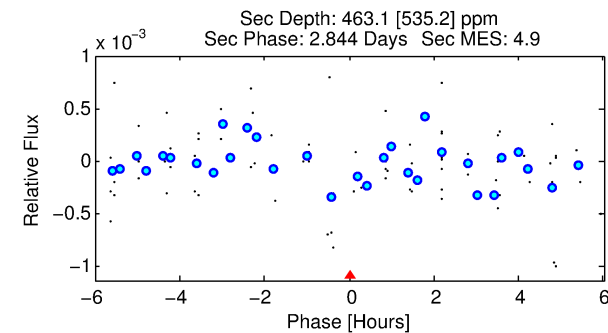
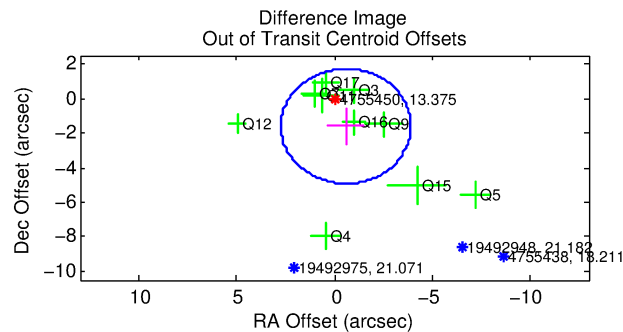
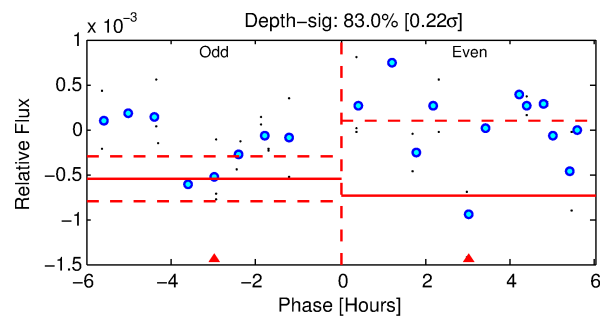
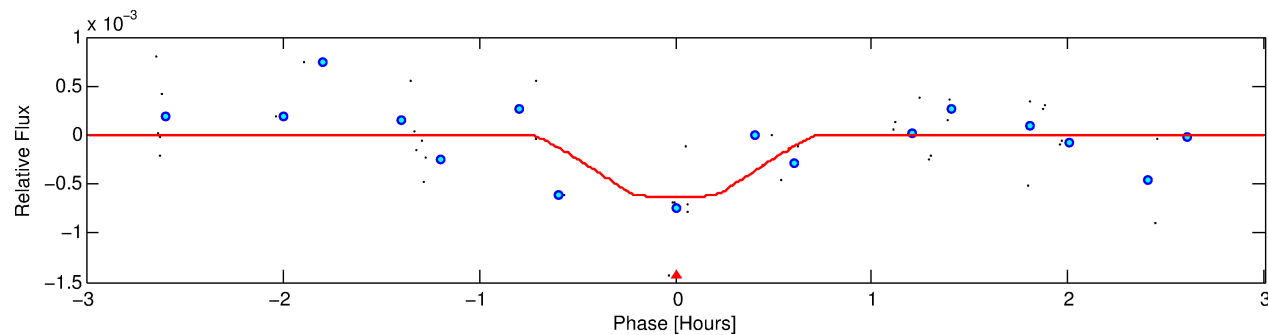
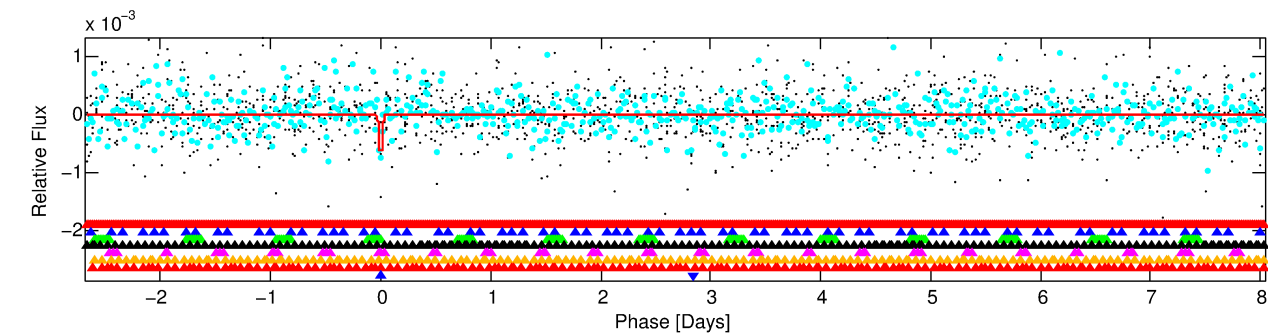
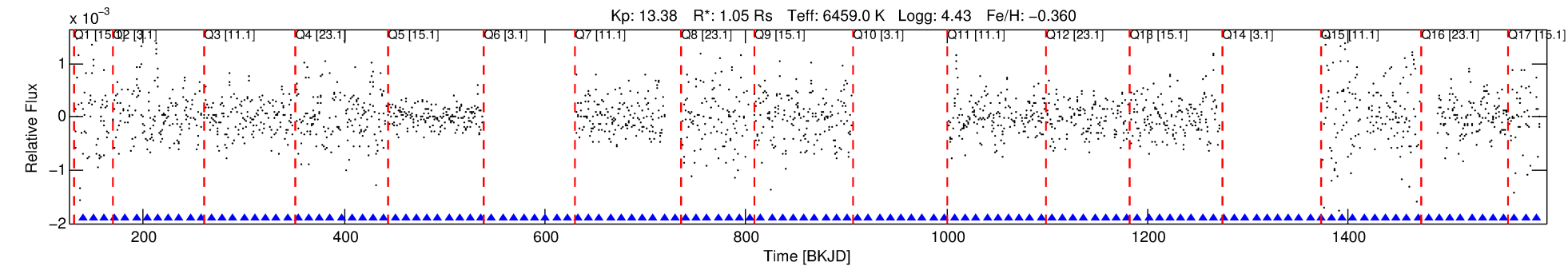
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004755450-08

No Significant Match Found

DV One-Page Summary

KIC: 4755450 Candidate: 8 of 8 Period: 10.722 d



DV Fit Results:

Period = 10.72163 [0.00017] d
Epoch = 139.6660 [0.0145] BKJD
Rp/R* = 0.0250 [0.1427]
a/R* = 61.25 [1841.17]
b = 0.70 [22.77]
Seff = 180.74 [75.11]
Teff = 935 [97] K
Rp = 2.87 [16.36] Re
a = 0.0974 [0.0259] AU
Ag = 294.60 [3377.71] [0.09 σ]
Teffp = 5989 [17158] K [0.29 σ]

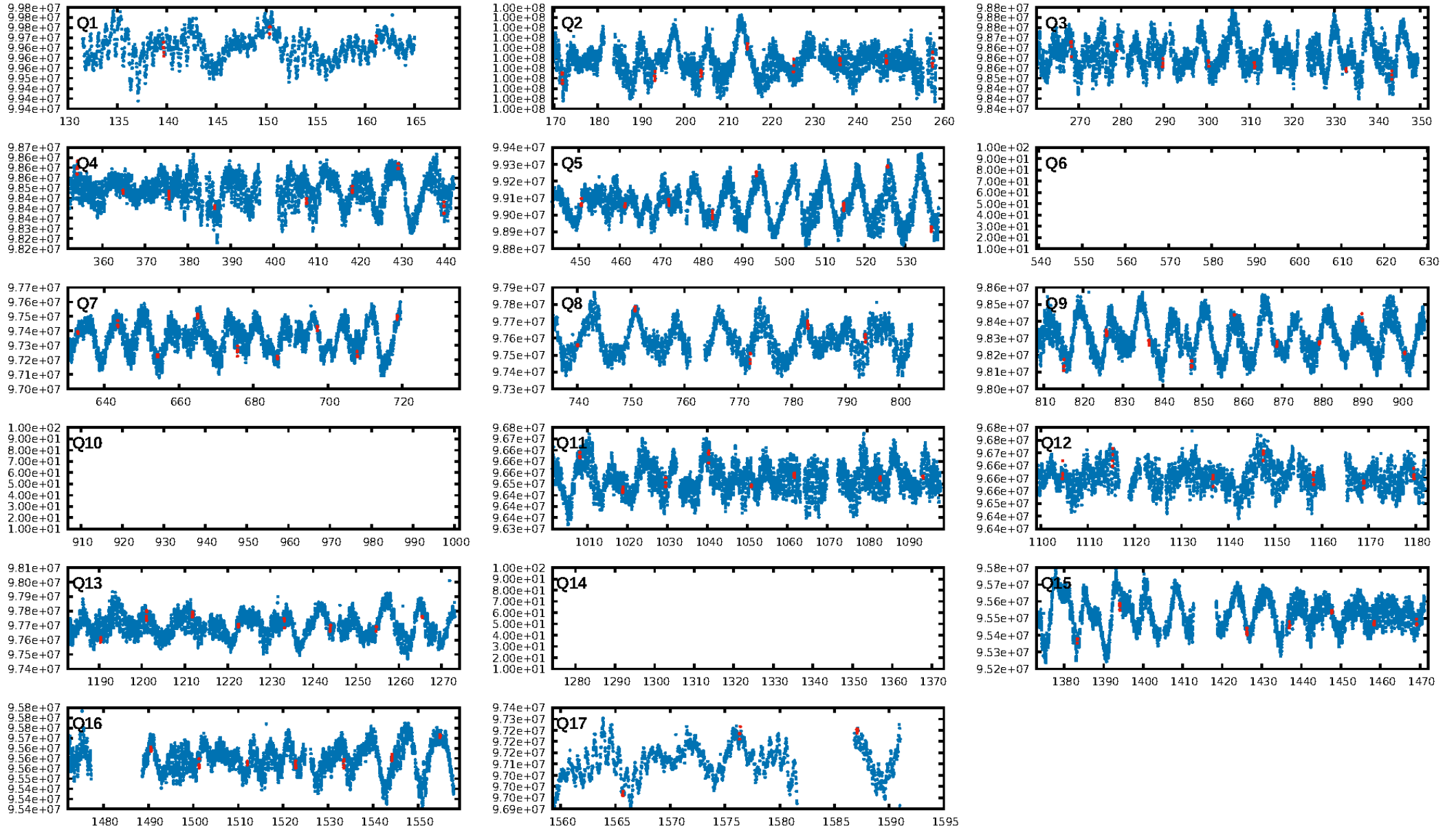
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [25.30 σ]
LongPeriod-sig: 100.0% [34.03 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 13.6%
Bootstrap-pfa: 9.07e-17
RollingBand-fgt: 1.00 [11/11]
GhostDiagnostic-chr: -0.6736
Centroid-sig: 0.6%
Centroid-so: 0.381 arcsec [1.52 σ]
OotOffset-rm: 1.705 arcsec [1.54 σ]
OotOffset-st: 0/4/3/3 [10]
KicOffset-rm: 1.676 arcsec [1.76 σ]
KicOffset-st: 0/4/3/3 [10]
DiffImageQuality-fgm: 0.40 [4/10]
DiffImageOverlap-fno: 0.00 [0/14]

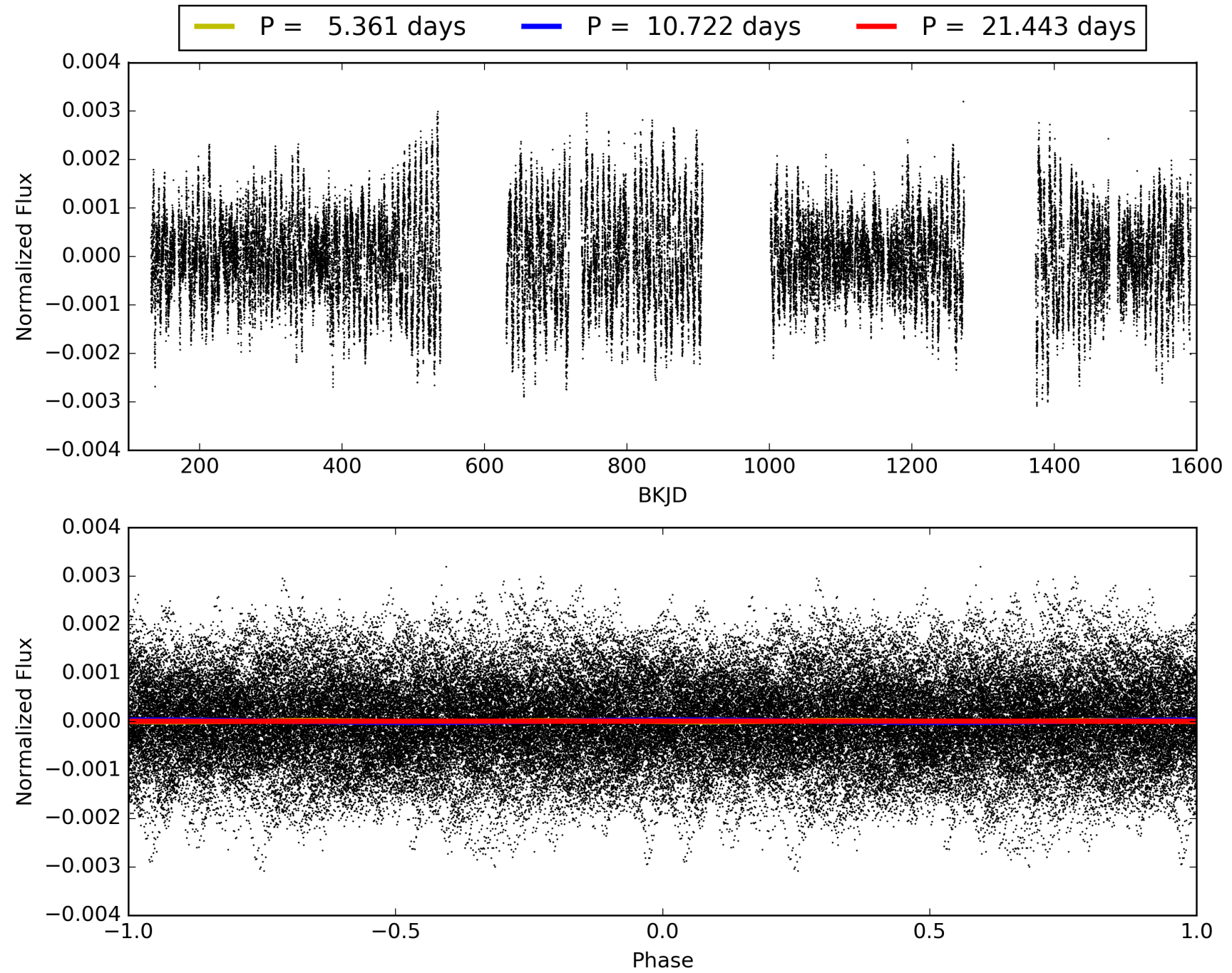
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 05:14:55 Z

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

TCE 004755450-08, PDC Light Curves

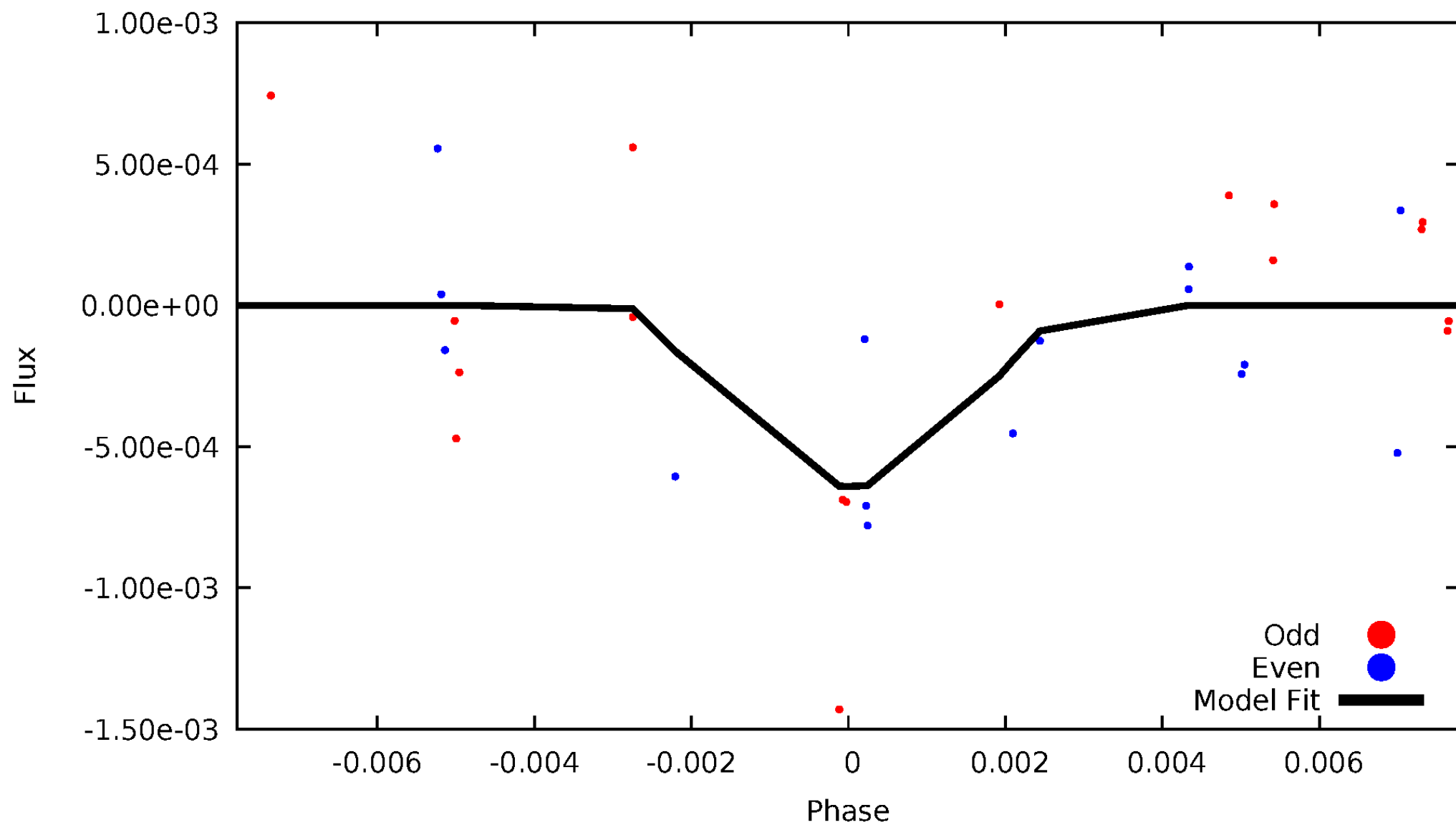


TCE 004755450-08



DV Odd/Even

TCE 004755450-08

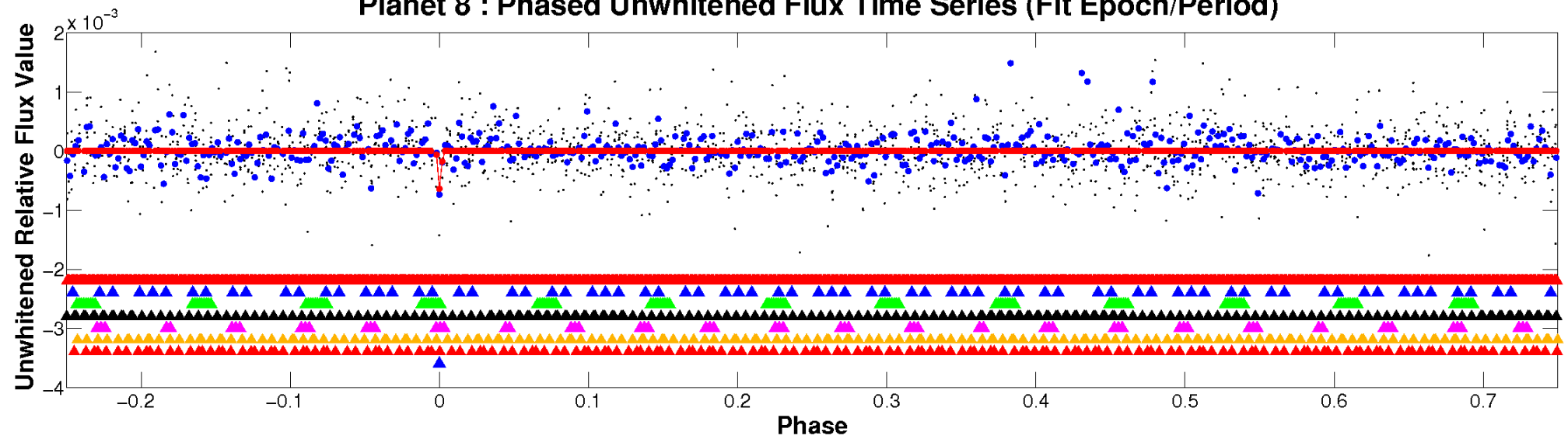


ALT Odd/Even

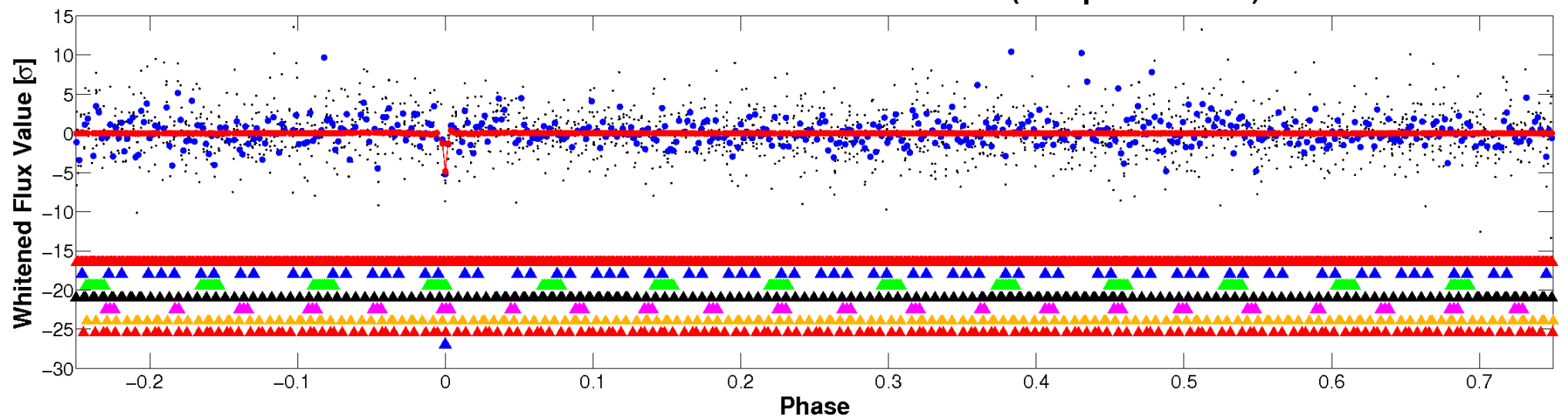
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

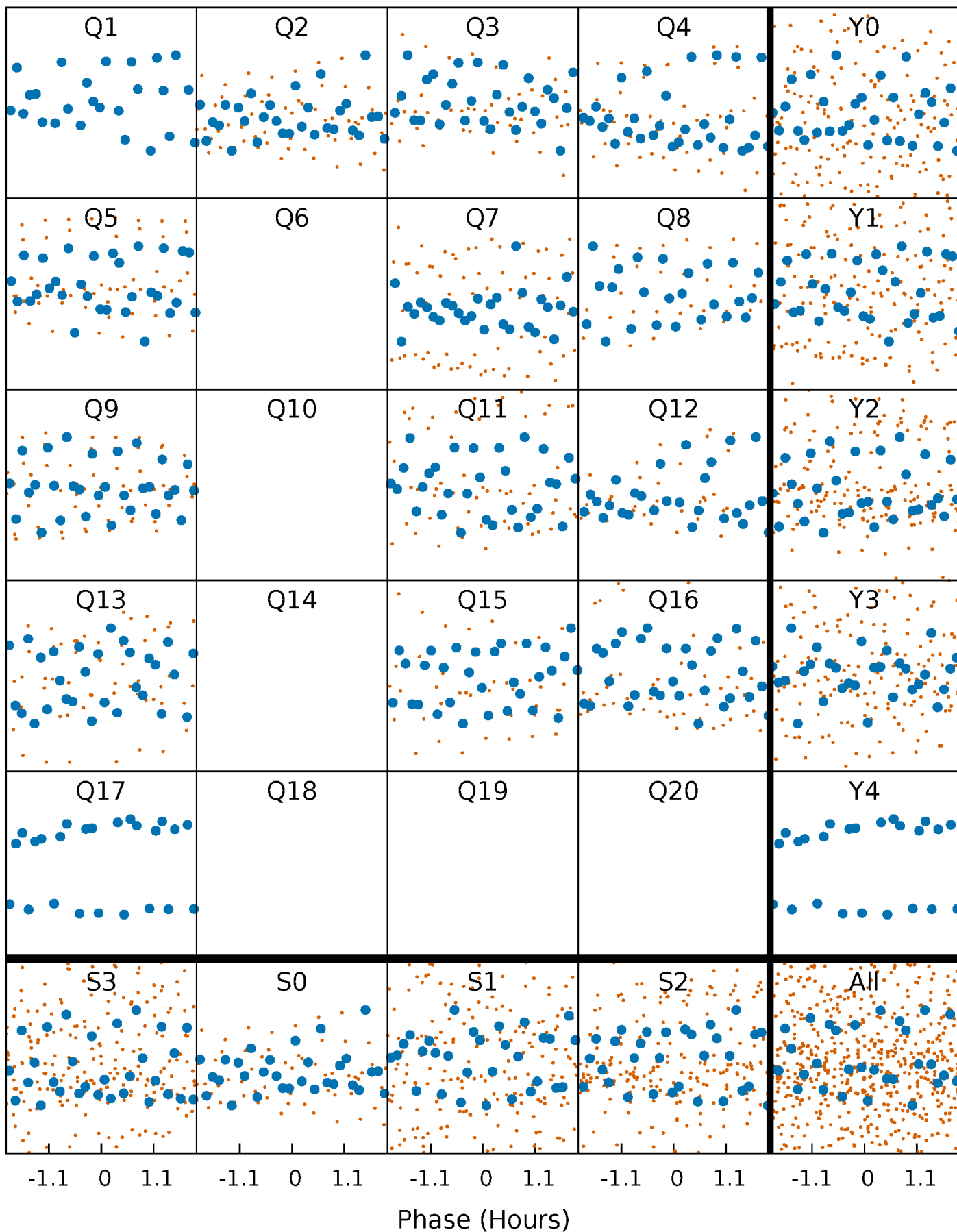


Planet 8 : Phased Whitened Flux Time Series (Fit Epoch/Period)



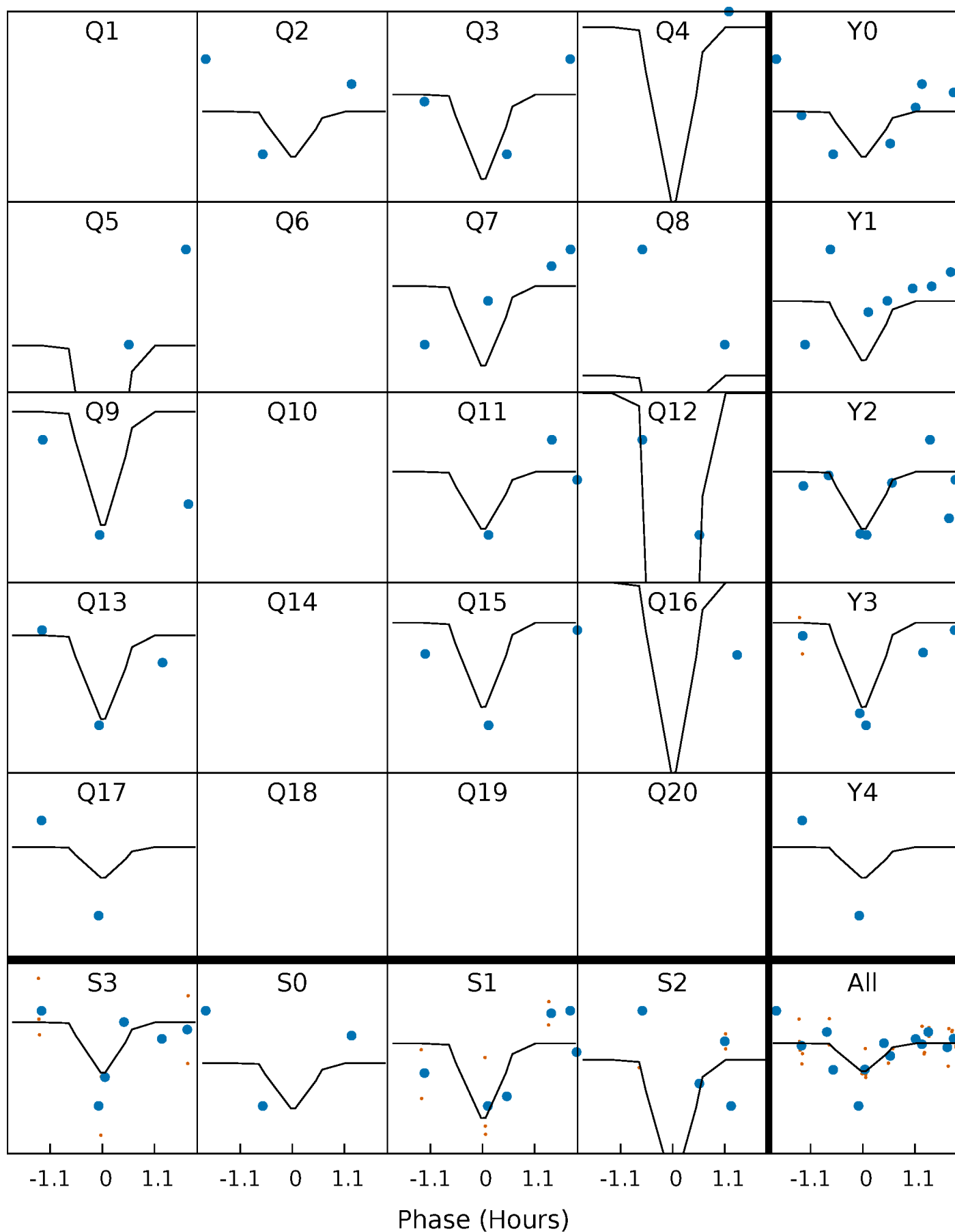
PDC Quarter-Phased Transit Curves

TCE 004755450-08 P= 10.721633 Days $T_0=139.666006$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 004755450-08 P= 10.721633 Days $T_0=139.666006$ (BKJD)

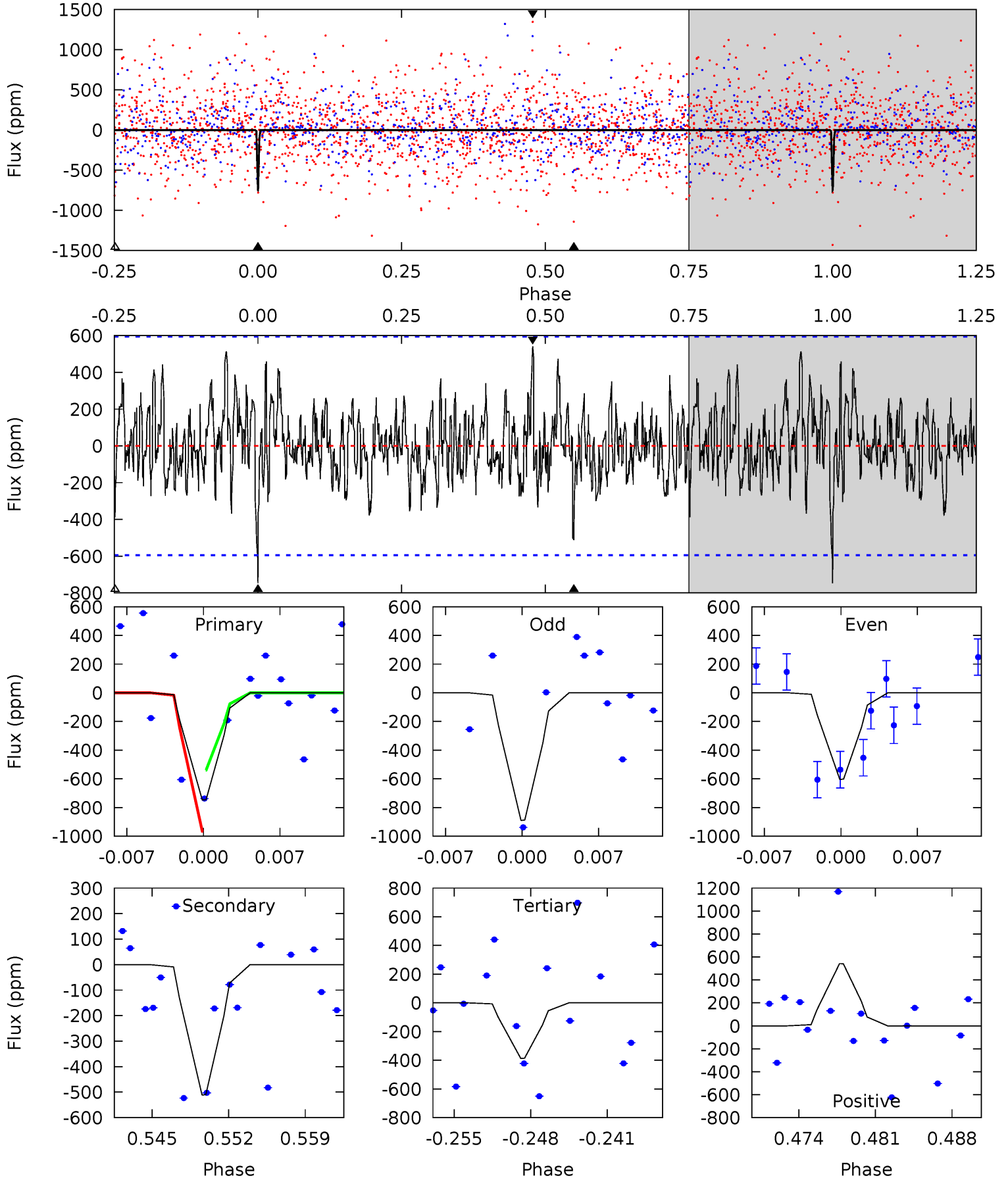


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

004755450-08, P = 10.721633 Days, E = 128.944373 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.40	4.38	3.31	4.64	5.09	2.69	1.33	3.09	1.76	1.06	-0.26	1.15	0	0.42	1.83



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 004755450

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6459^{+181}_{-250}	$4.427^{+0.070}_{-0.210}$	$-0.360^{+0.250}_{-0.350}$	$1.049^{+0.333}_{-0.133}$	$1.071^{+0.161}_{-0.146}$	$1.306^{+0.385}_{-0.710}$
	+3%/-4%	+2%/-5%	+69%/-97%	+32%/-13%	+15%/-14%	+29%/-54%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 004755450-08 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-511±117	$13.06^{+13.96}_{-9.21}$	1326^{+100}_{-67}	3412^{+2001}_{-669}	15^{+170}_{-12}
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 $A_{\text{obs}} \gg 1.0$

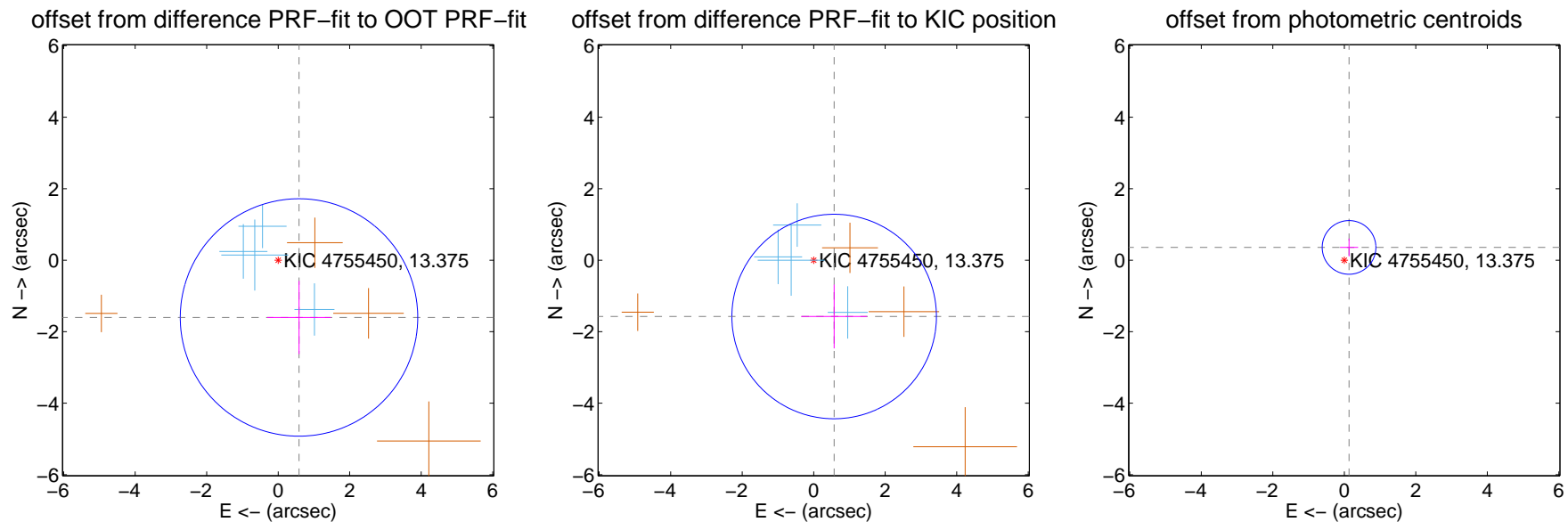
DV Centroid Data

Supplemental centroid analysis for 004755450-08. Kepler magnitude: 13.38. Transit SNR 11.94

There are 4 quarters with good PRF difference image offsets

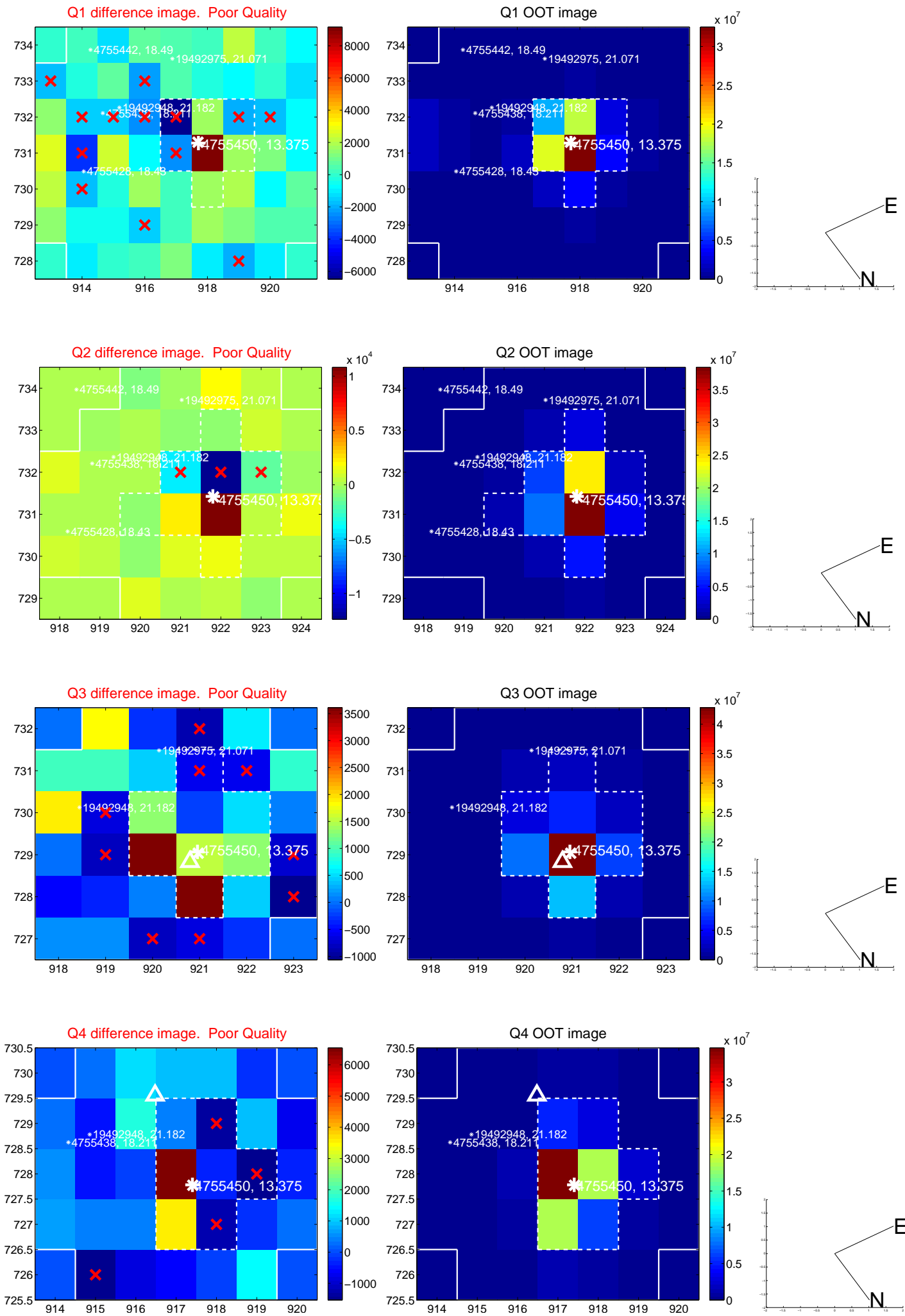
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.705 ± 1.107	1.54	-0.582 ± 0.888	-1.602 ± 1.022
PRF-fit source offset from KIC position	1.676 ± 0.953	1.76	-0.573 ± 0.922	-1.575 ± 0.891
photometric centroid source offset	0.38 ± 0.25	1.52	-0.13 ± 0.25	0.36 ± 0.25

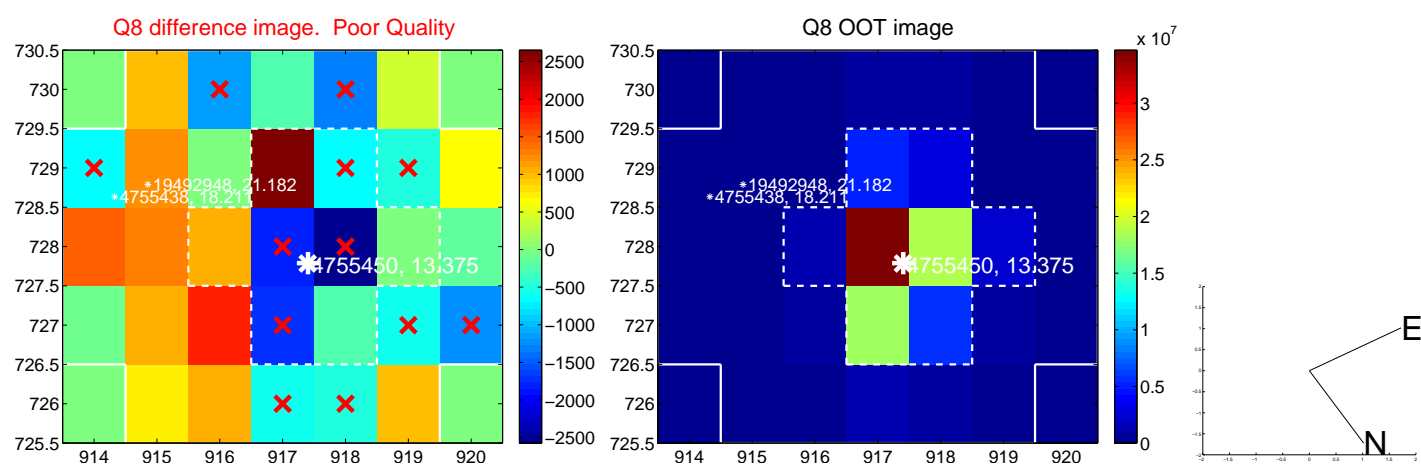
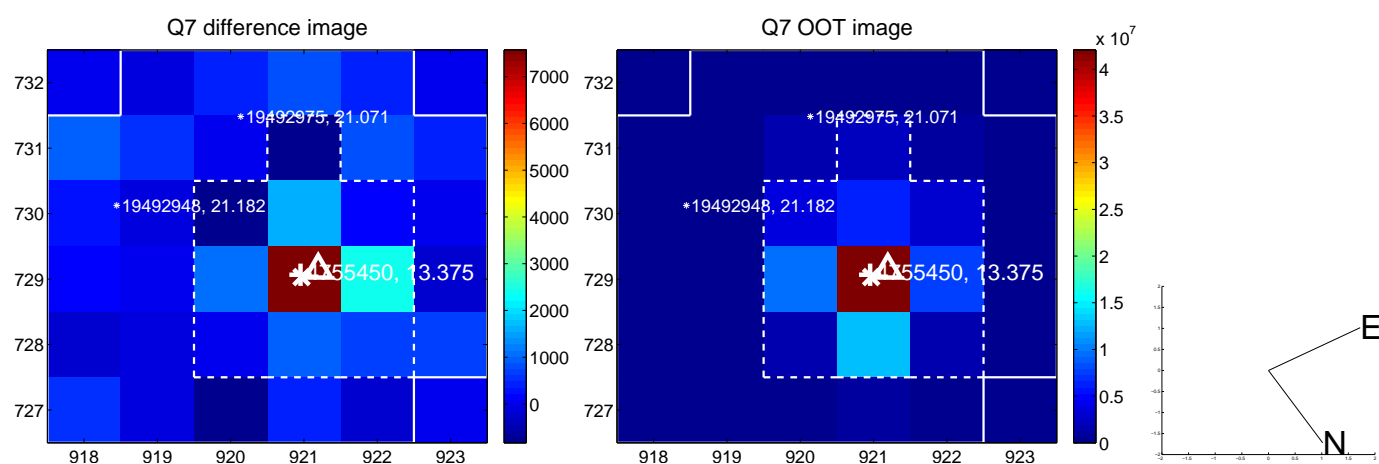
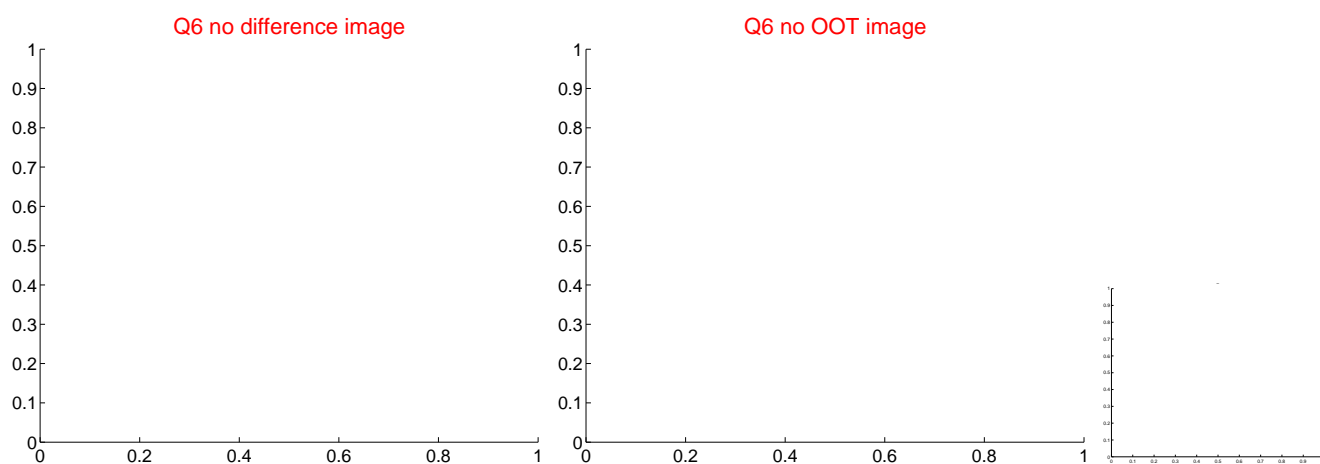
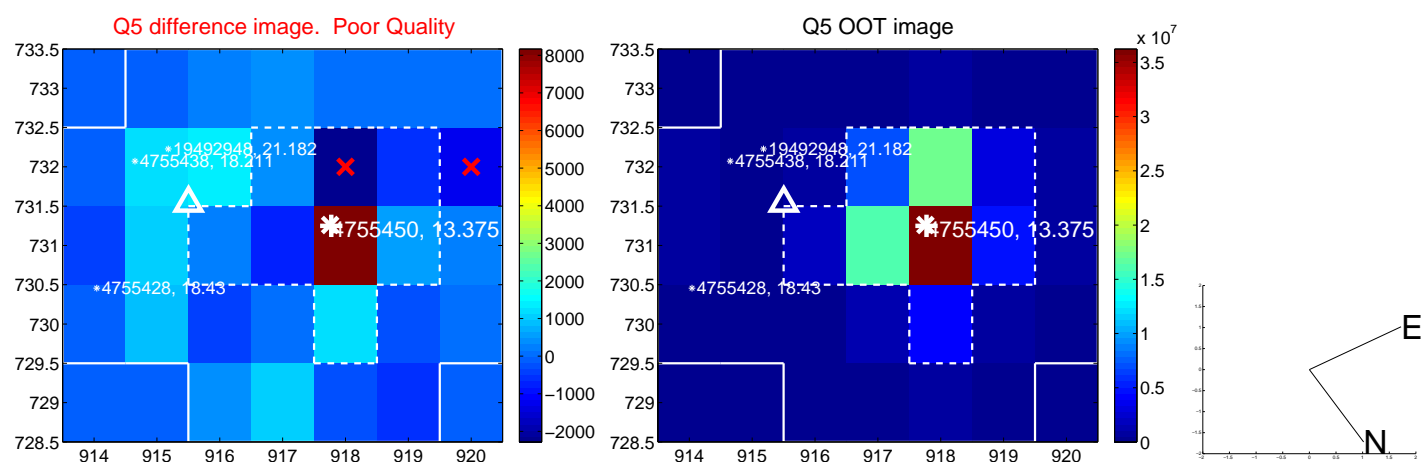


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

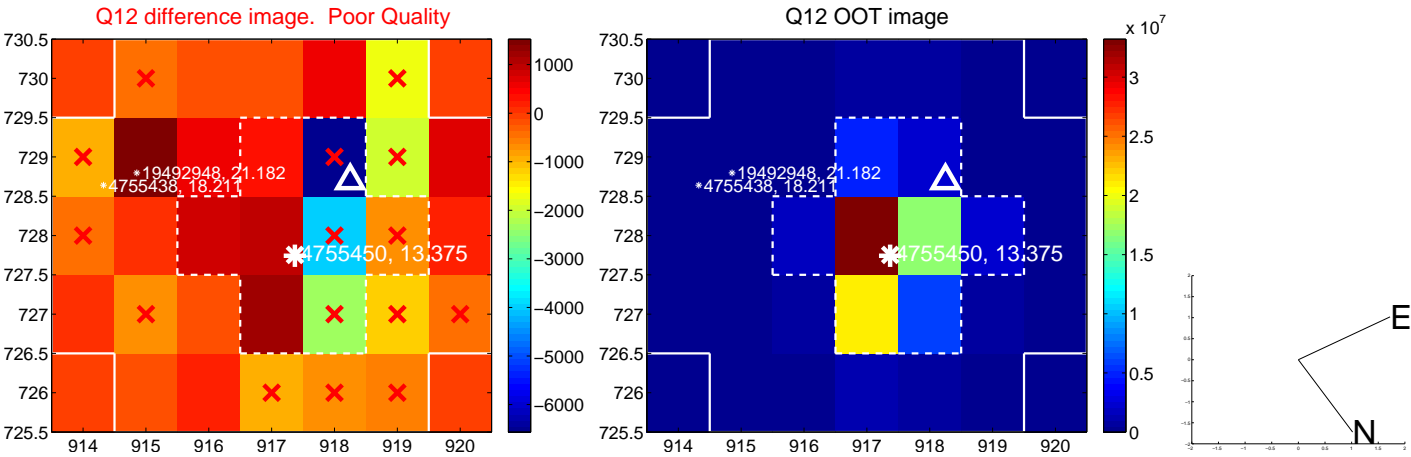
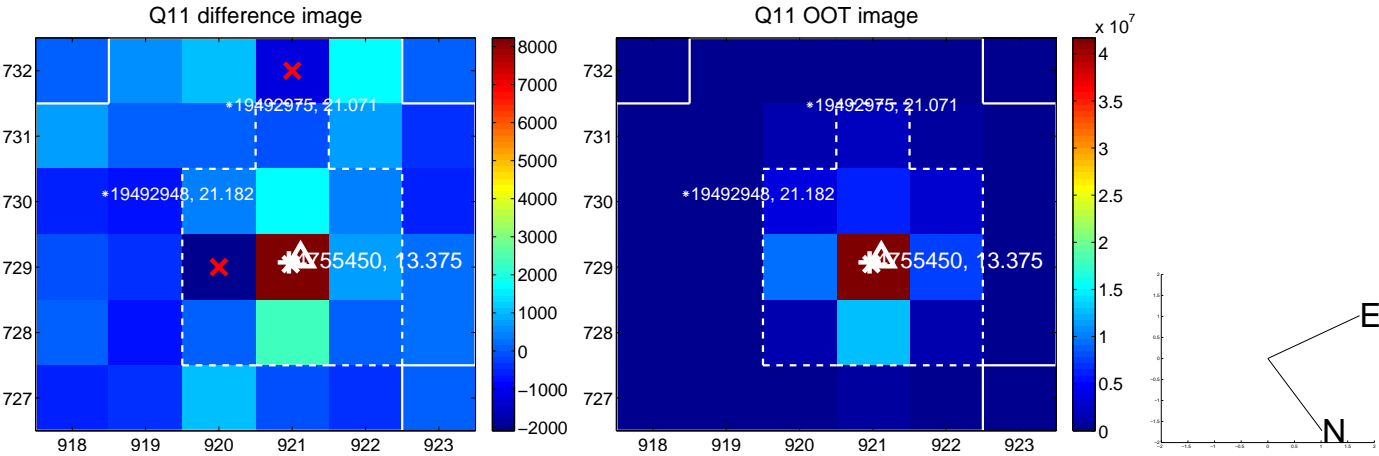
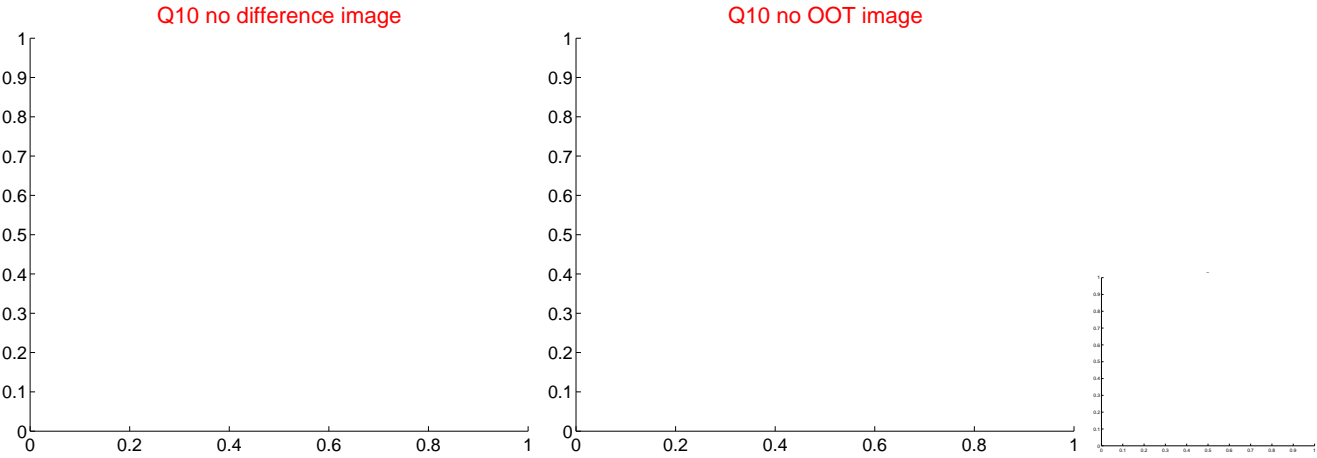
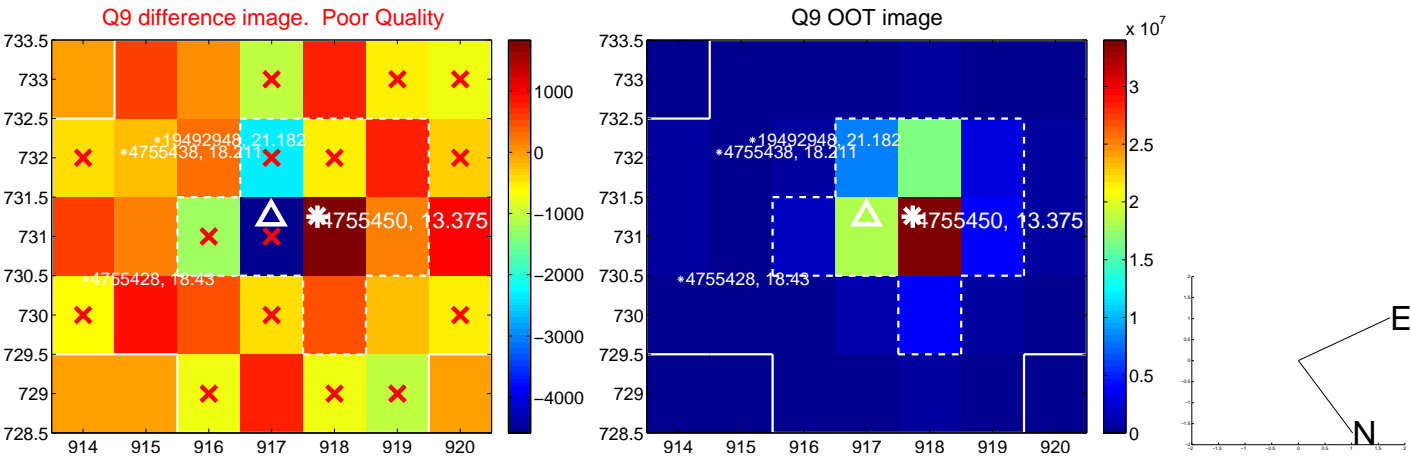
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



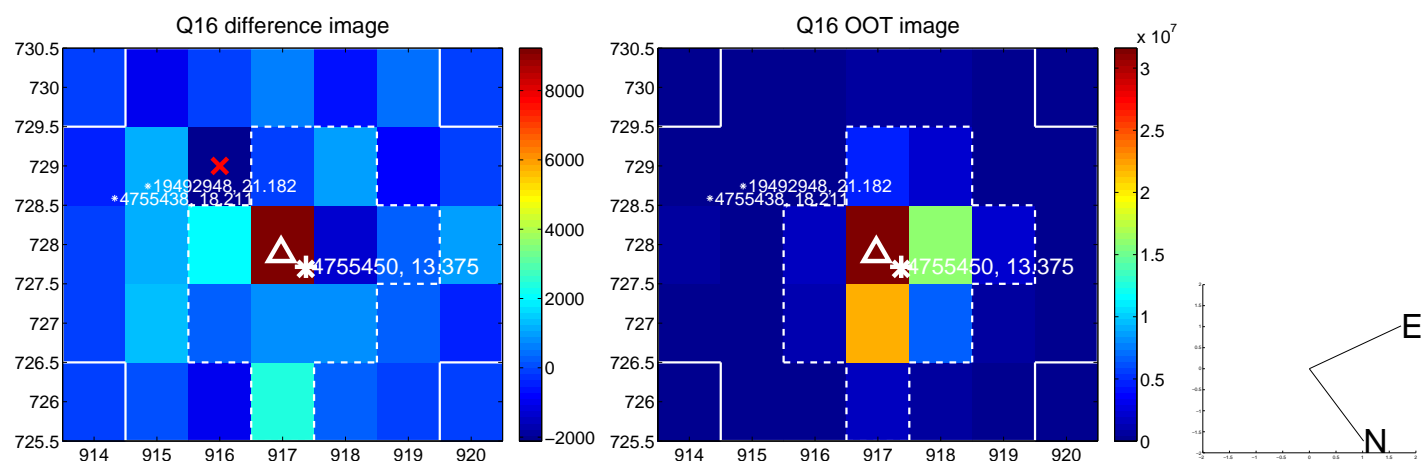
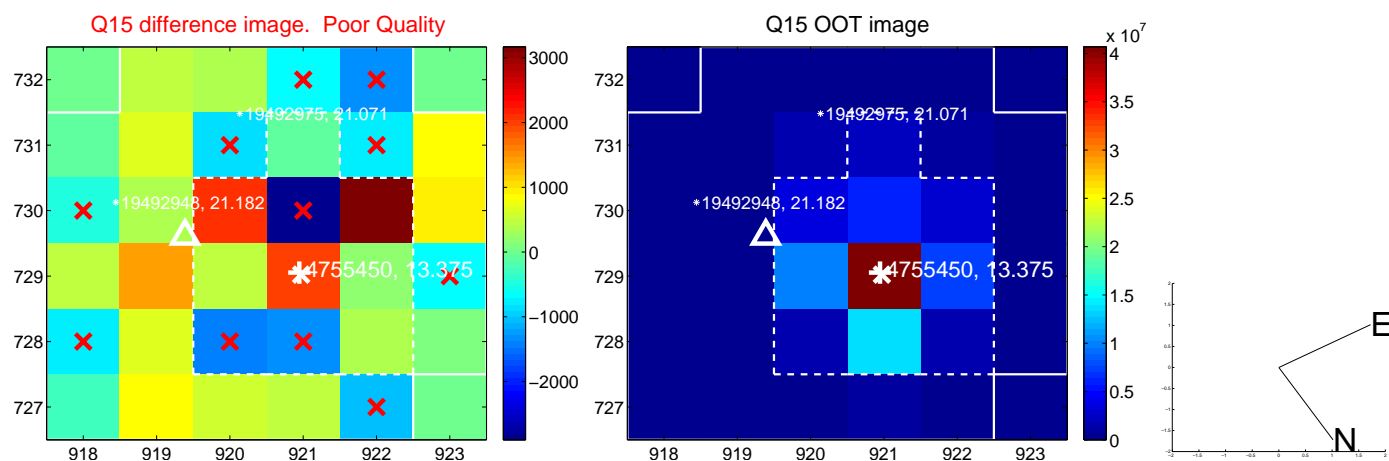
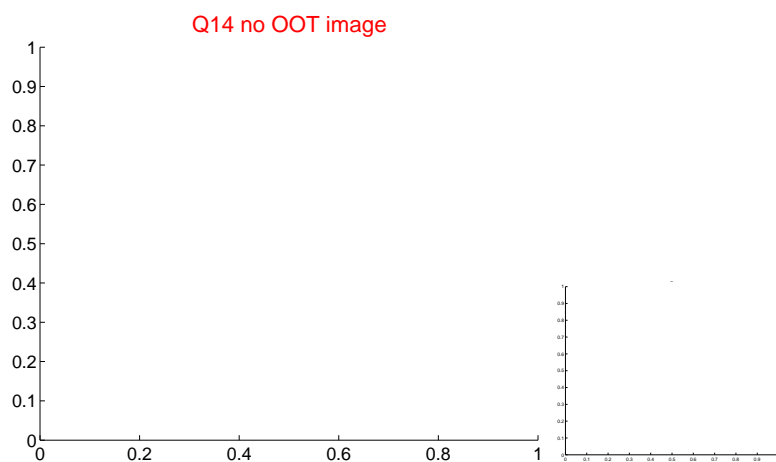
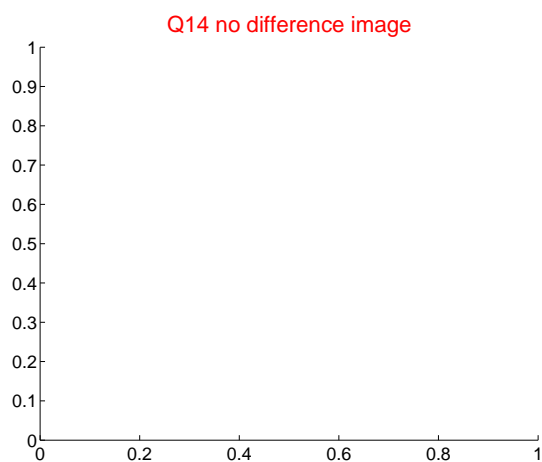
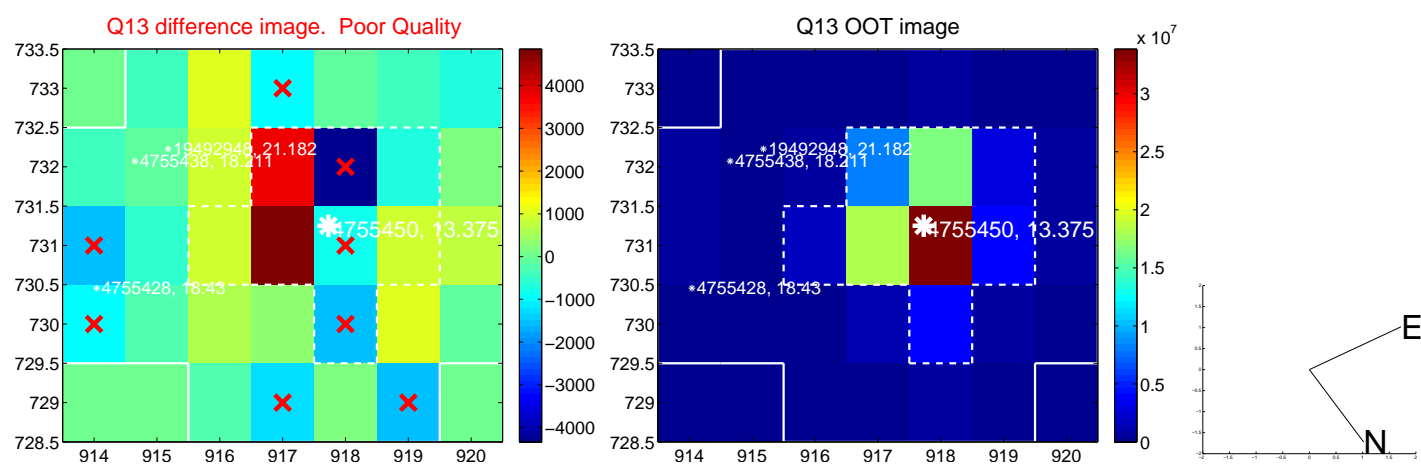
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

