

KIC 011714150

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})
011714150-01	OBS	No	1.694524	131.568784	18.0	5.780	10.9	9.1	3.06	8493	1.43	35398.43
011714150-02	OBS	No	0.588549	131.863166	17.4	4.290	9.8	12.7	3.06	8493	1.49	144989.99
011714150-03	OBS	No	2.074040	133.479216	0.2	3.064	17.8	0.1	3.06	8493	0.15	27036.99
011714150-04	OBS	No	9.140972	135.124696	78.5	1.350	12.1	3.2	3.06	8493	2.85	3741.61
011714150-05	OBS	No	11.605539	132.026703	180.5	1.517	14.6	13.3	3.06	8493	4.23	2721.62
011714150-06	OBS	No	5.955380	134.847991	53.9	6.501	13.7	7.6	3.06	8493	2.52	6624.73
011714150-07	OBS	No	19.202625	140.092455	233.9	1.279	12.4	14.3	3.06	8493	4.77	1390.70
011714150-08	OBS	No	3.983876	135.127734	52.5	3.500	9.6	-1.0	3.06	8493	2.25	11323.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011714150-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
011714150-02	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
011714150-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
011714150-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST
011714150-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

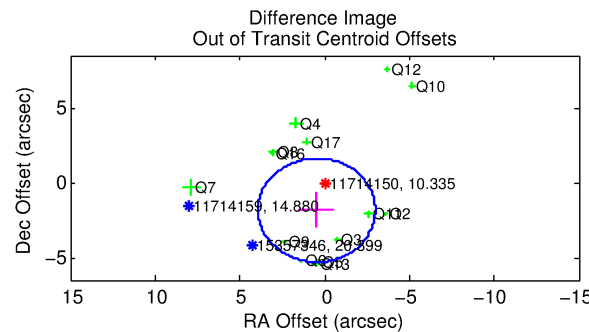
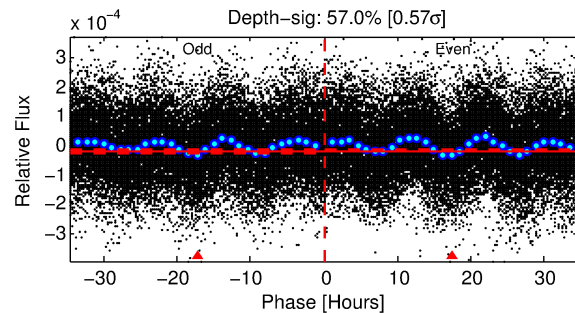
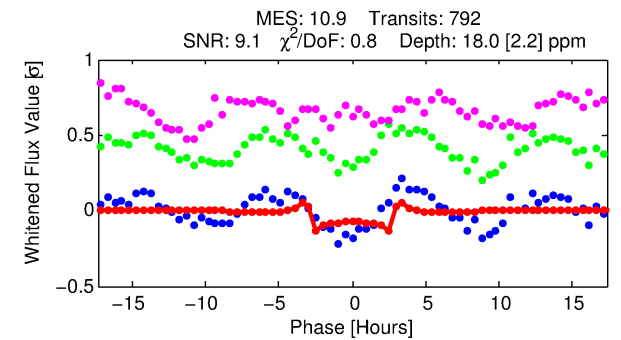
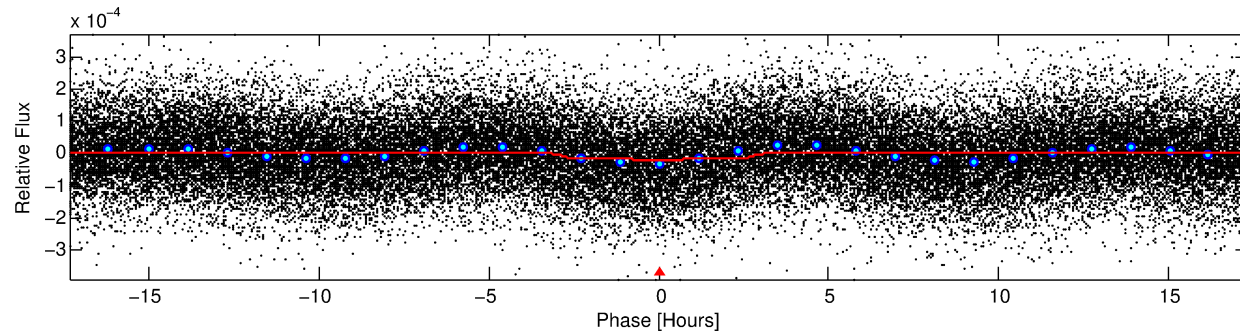
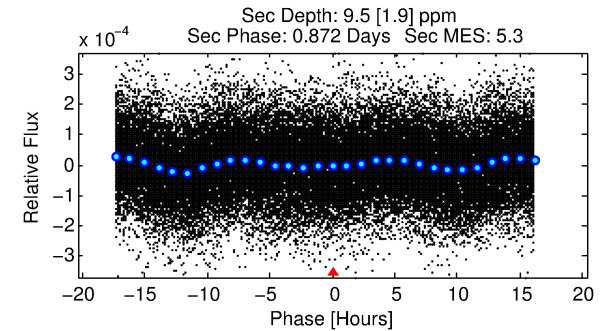
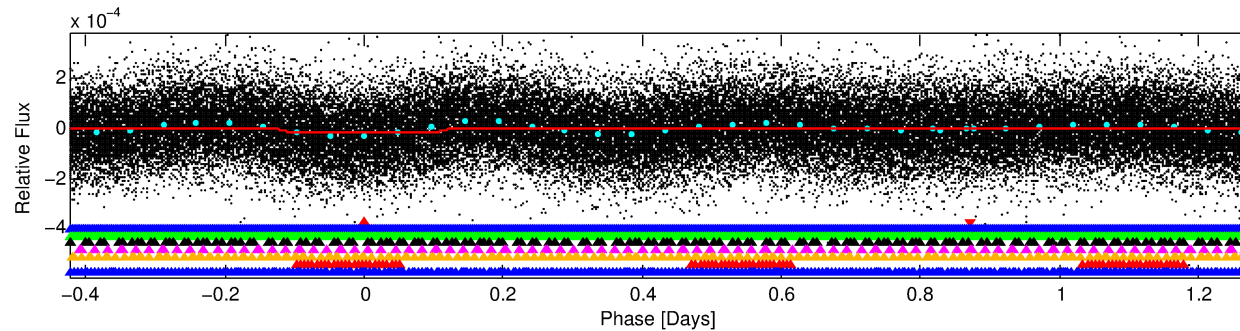
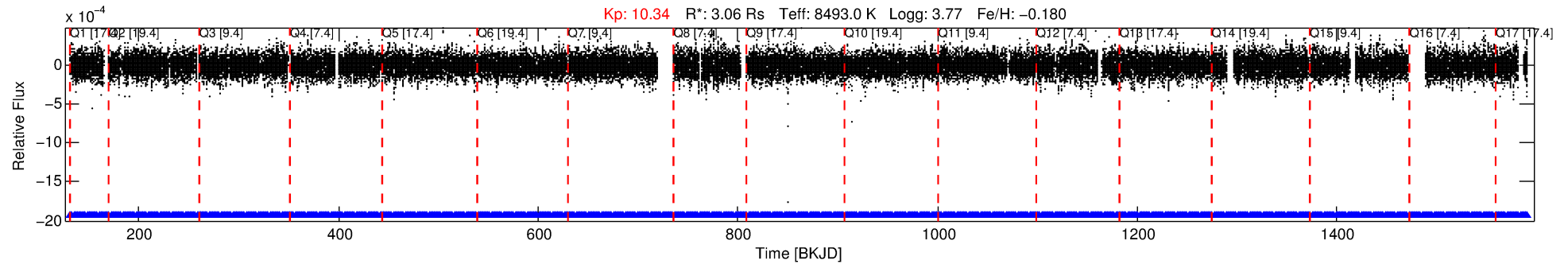
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011714150-01

No Significant Match Found

DV One-Page Summary

KIC: 11714150 Candidate: 1 of 8 Period: 1.695 d



DV Fit Results:

Period = 1.69452 [0.00001] d
Epoch = 131.5688 [0.0021] BKJD
Rp/R* = 0.0043 [0.0004]
a/R* = 1.62 [0.49]
b = 0.80 [0.22]
Seff = 35398.43 [26444.98]
Teq = 3498 [653] K
Rp = 1.43 [0.65] Re
a = 0.0351 [0.0155] AU
Ag = 3.14 [2.44] [0.88σ]
Teffp = 7196 [600] K [4.17σ]

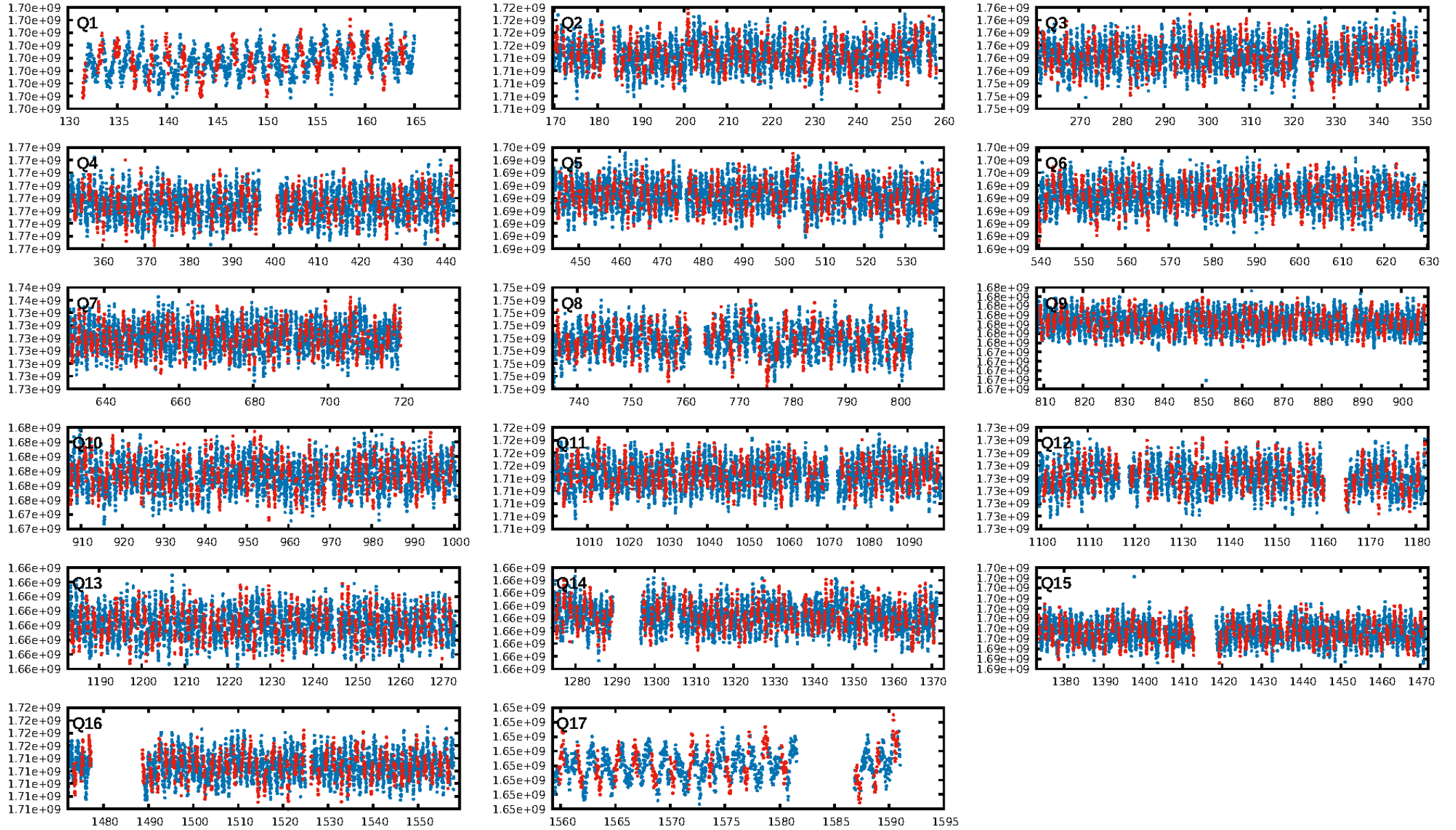
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [3.69σ]
LongPeriod-sig: 83.6% [1.39σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [756/756]
GhostDiagnostic-chr: 2.273
Centroid-sig: 31.2%
Centroid-so: 0.354 arcsec [0.66σ]
OotOffset-rm: 1.907 arcsec [1.65σ]
OotOffset-st: 3/3/4/4 [14]
KicOffset-rm: 1.762 arcsec [1.91σ]
KicOffset-st: 3/3/4/4 [14]
DiffImageQuality-fgm: 0.21 [3/14]
DiffImageOverlap-fno: 0.00 [0/17]

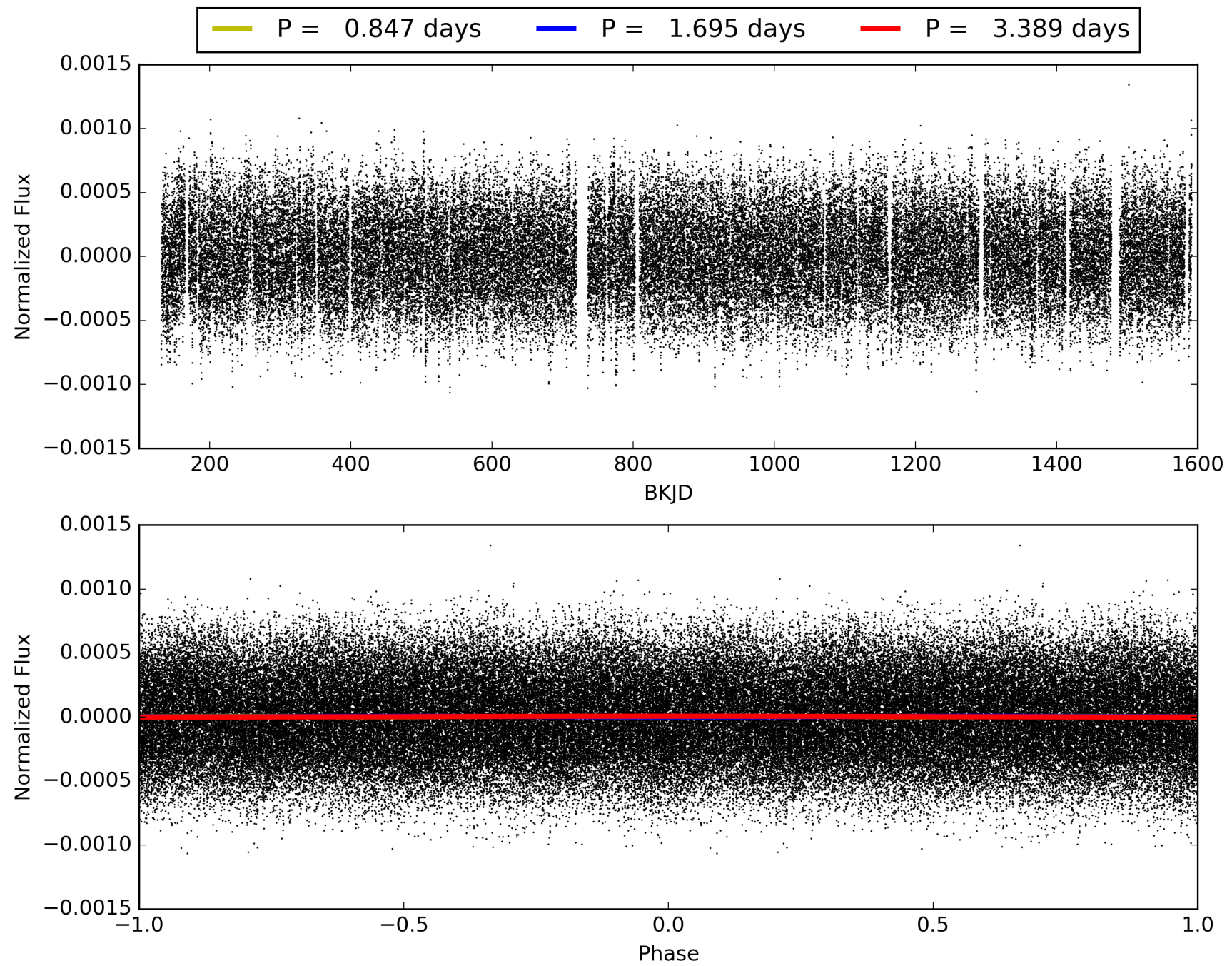
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 011714150-01, PDC Light Curves

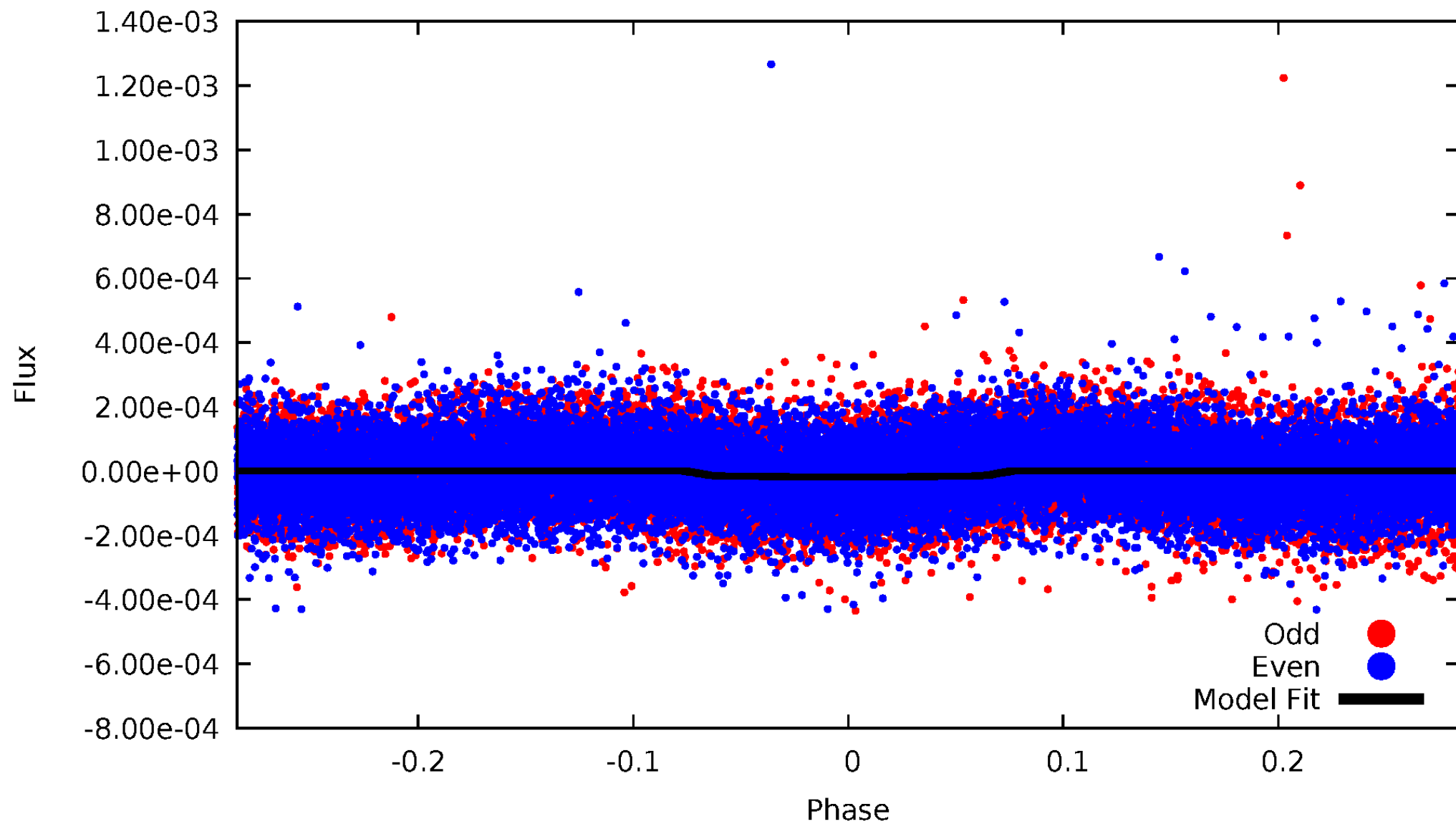


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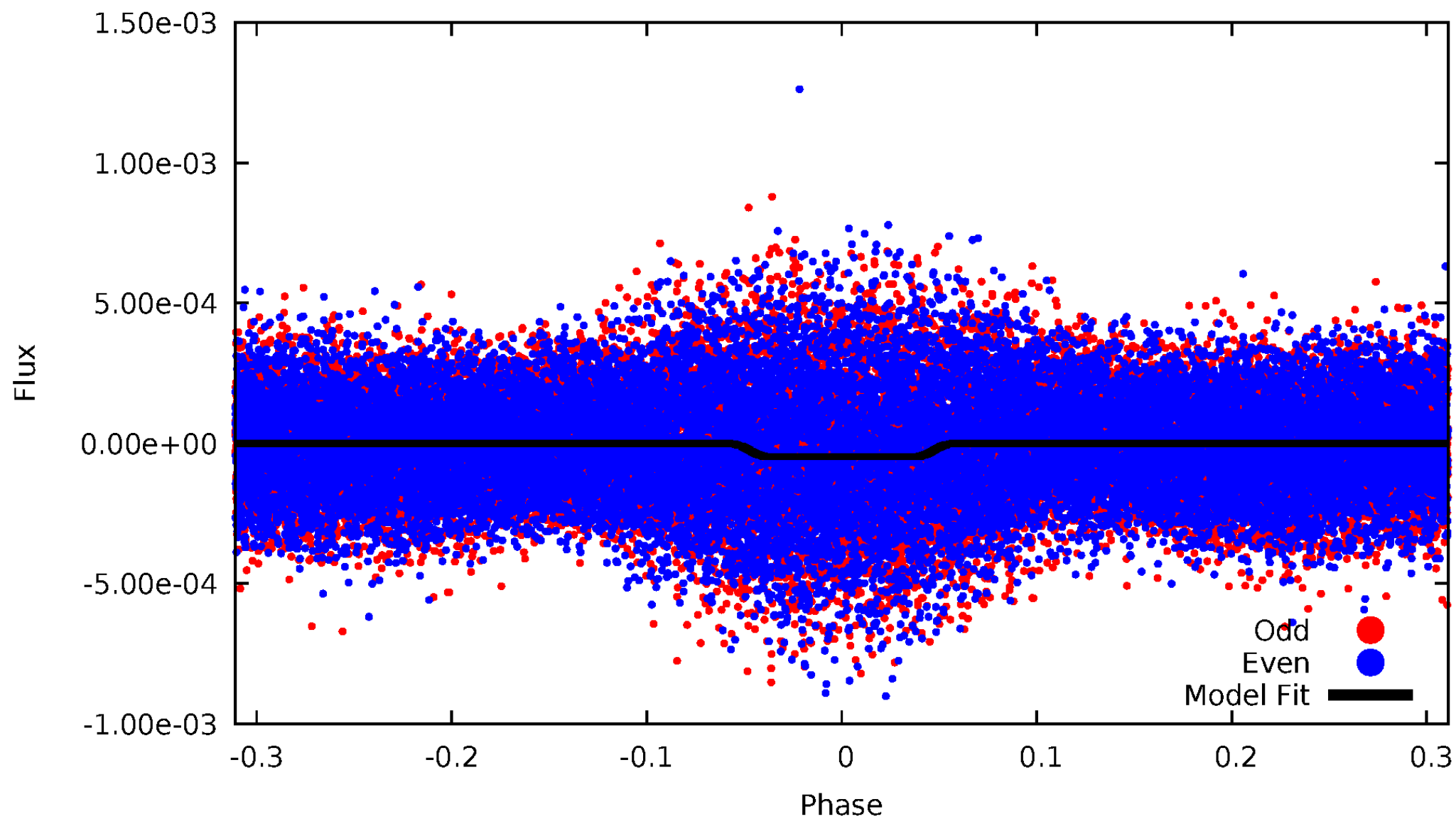
DV Odd/Even

TCE 011714150-01



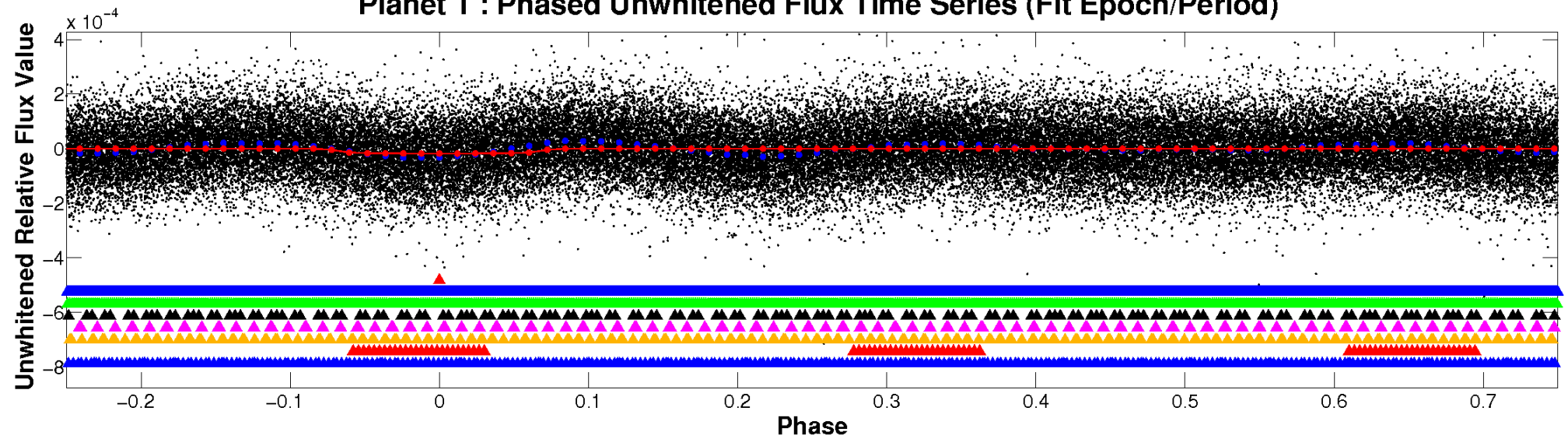
ALT Odd/Even

TCE 011714150-01

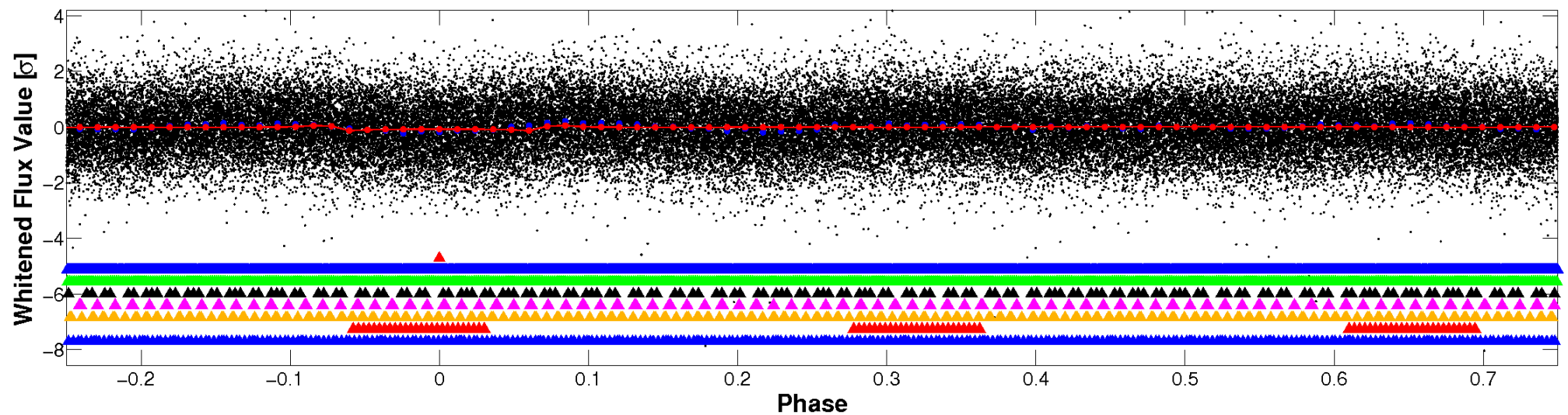


Non-Whitened Vs. Whitened Light Curve

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

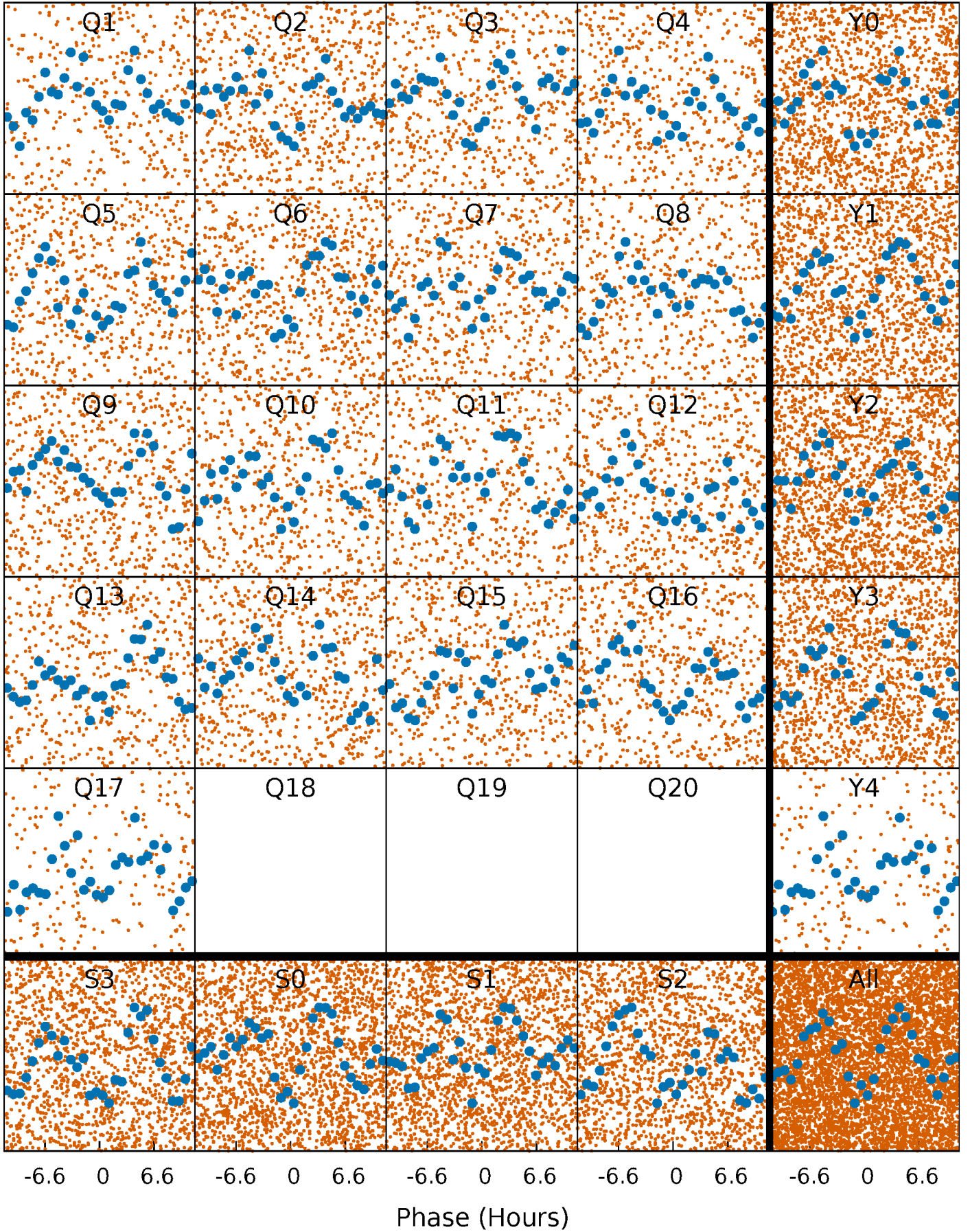


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



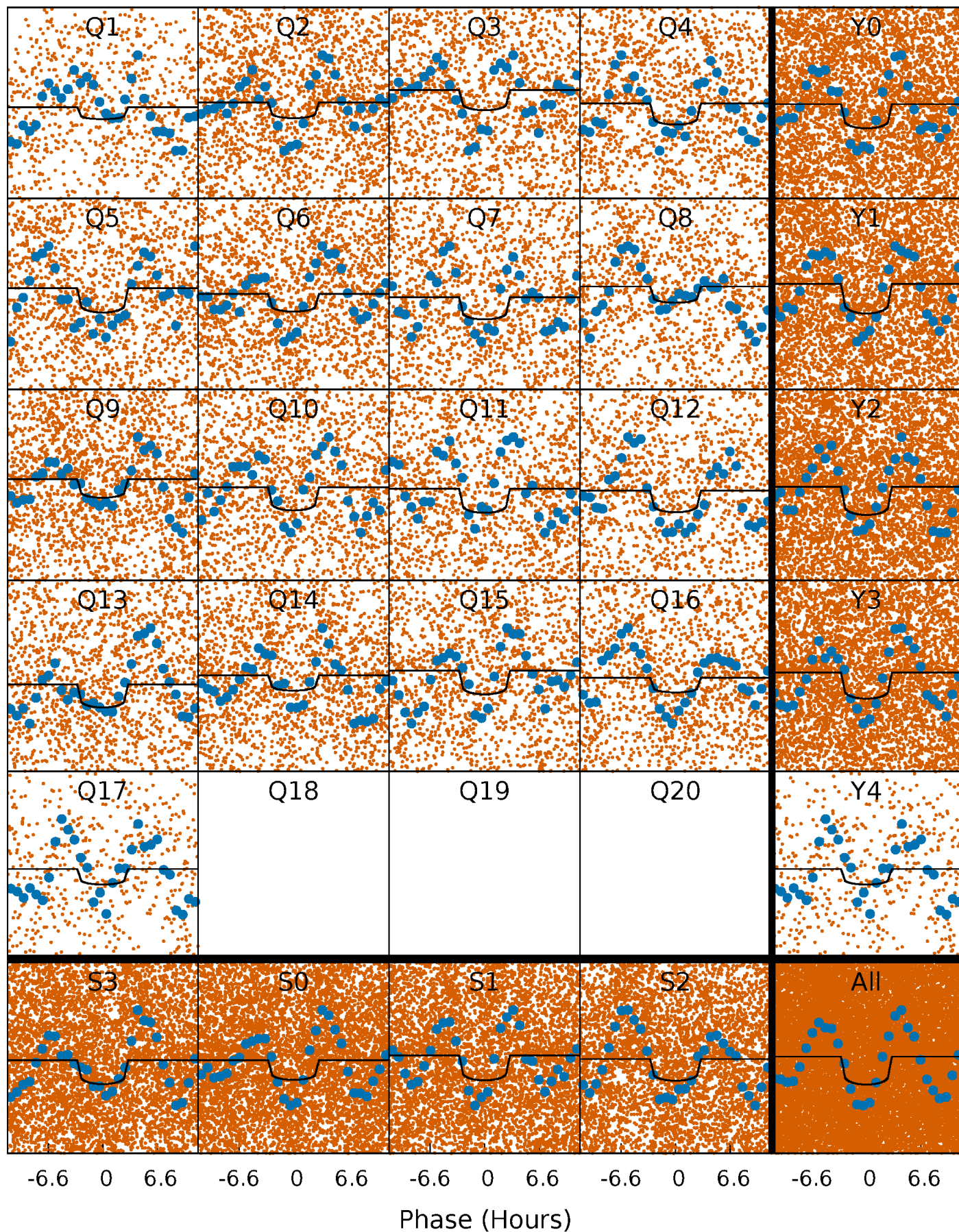
PDC Quarter-Phased Transit Curves

TCE 011714150-01 P= 1.694524 Days $T_0=131.568784$ (BKJD)



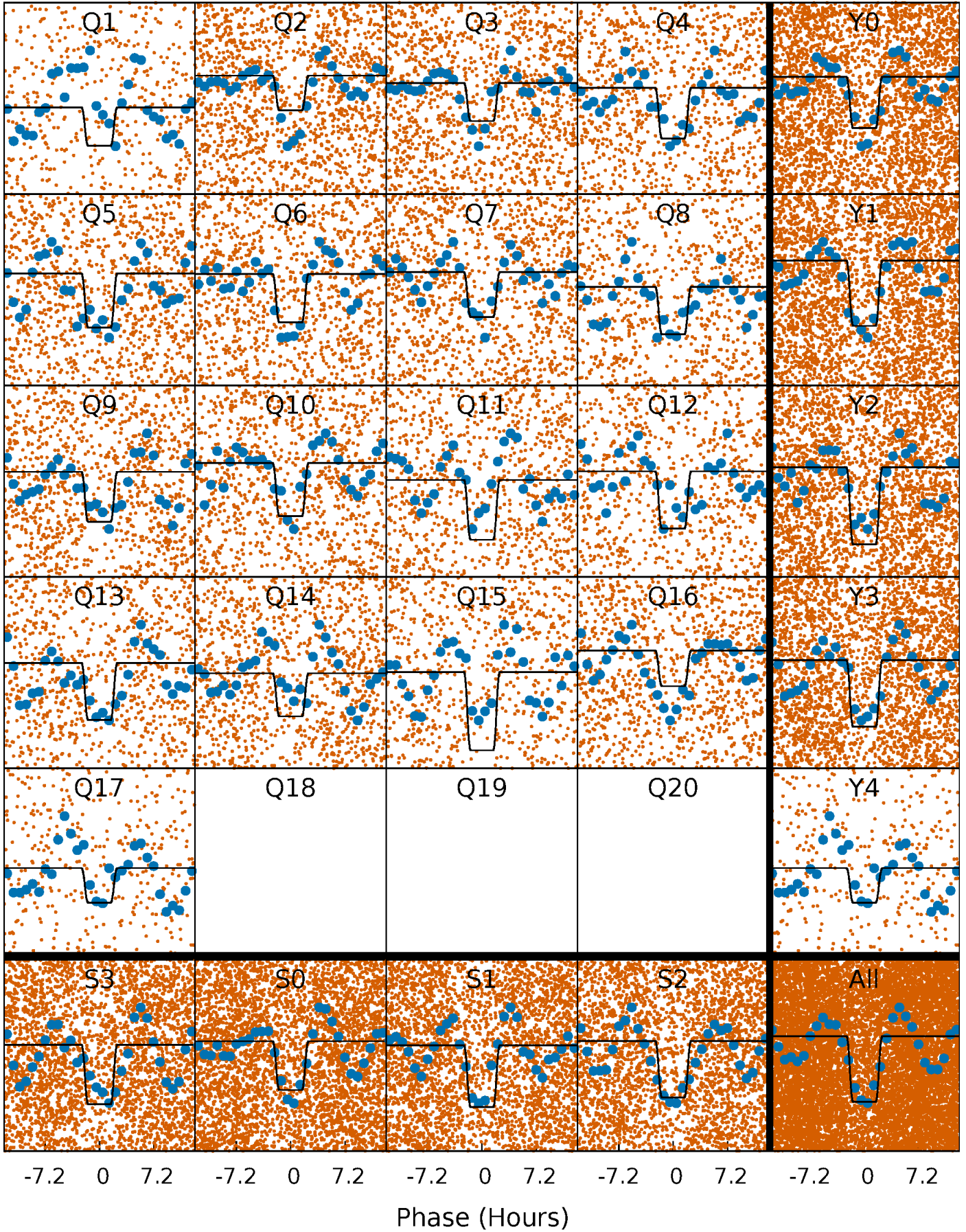
DV Quarter-Phased Transit Curves

TCE 011714150-01 P= 1.694524 Days $T_0=131.568784$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

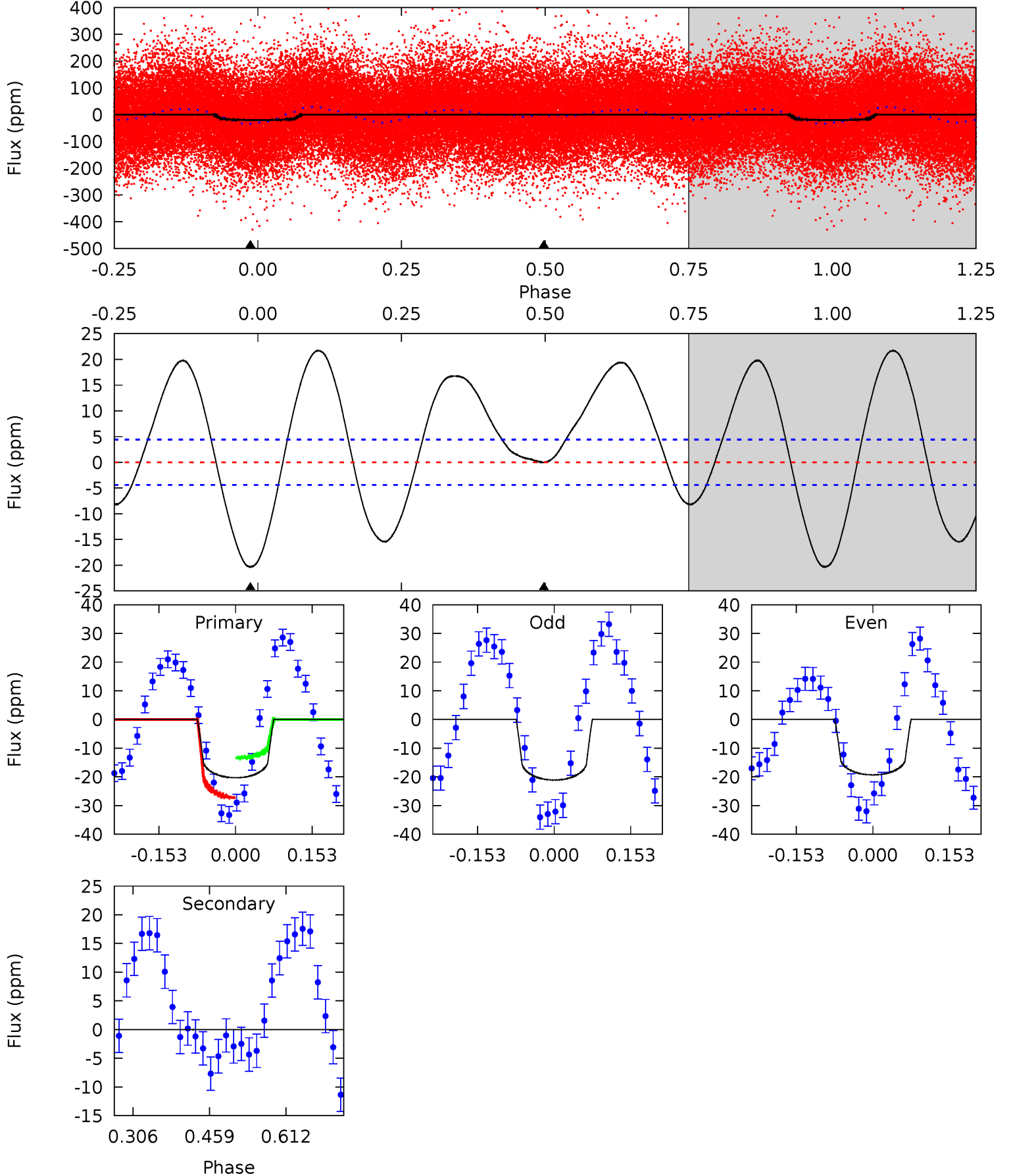
TCE 011714150-01 P= 1.694546 Days $T_0=131.541554$ (BKJD)



DV Model-Shift Uniqueness Test

011714150-01, P = 1.694524 Days, E = 129.874260 Days

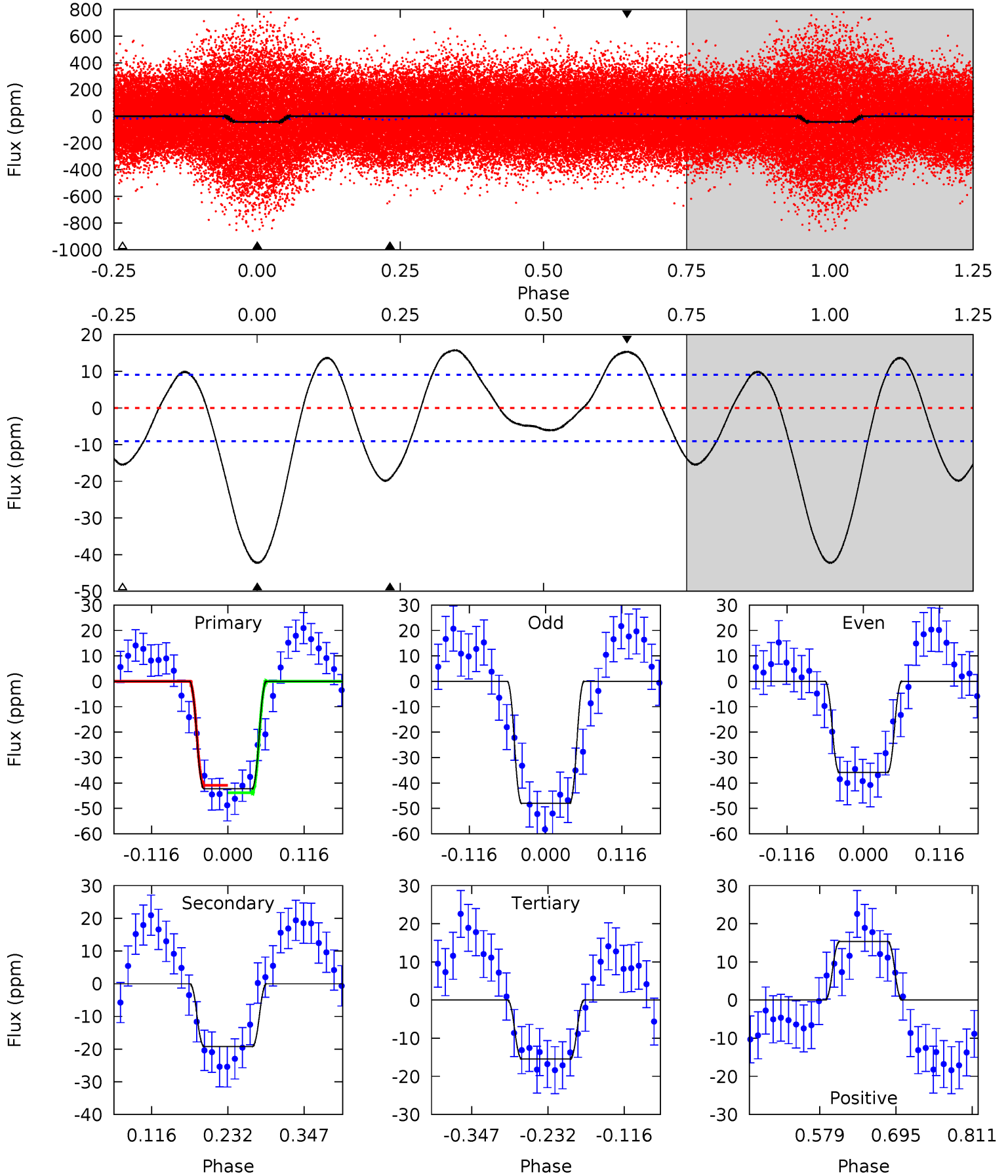
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.6	0.01	0	0	4.47	1.43	10.1	20.6	20.6	0.01	0.01	0.92	1.12	0.52	7.06



Alt Model-Shift Uniqueness Test

011714150-01, P = 1.694546 Days, E = 129.847008 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.1	9.62	7.74	7.68	4.53	1.57	4.43	13.4	13.5	1.89	1.95	3.04	0.88	0.27	0.76



Stellar Parameters For KIC 011714150

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8493^{+235}_{-383}	$3.770^{+0.432}_{-0.135}$	$-0.180^{+0.300}_{-0.350}$	$3.061^{+0.785}_{-1.345}$	$2.017^{+0.345}_{-0.474}$	$0.099^{+0.376}_{-0.041}$
	+3%/-5%	+11%/-4%	+167%/-194%	+26%/-44%	+17%/-24%	+379%/-41%
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 011714150-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-0 ± 1	$1.36^{+0.30}_{-0.32}$	4728^{+389}_{-577}	-4016^{+7423}_{-694}	$-0.002^{+0.436}_{-0.340}$
Alt.	-19 ± 2	$2.27^{+0.39}_{-0.57}$	4780^{+407}_{-569}	6276^{+357}_{-348}	$2.619^{+1.649}_{-0.732}$

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

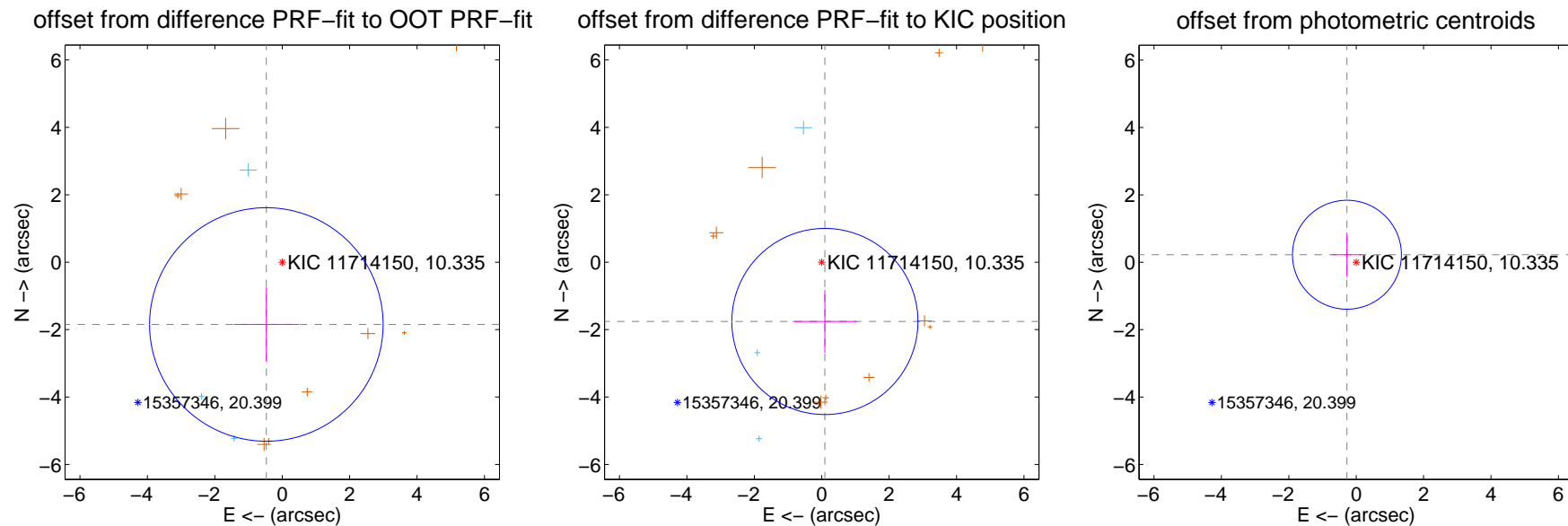
DV Centroid Data

Supplemental centroid analysis for 011714150-01. **Kepler magnitude: 10.34.** Transit SNR 9.09

There are 3 quarters with good PRF difference image offsets

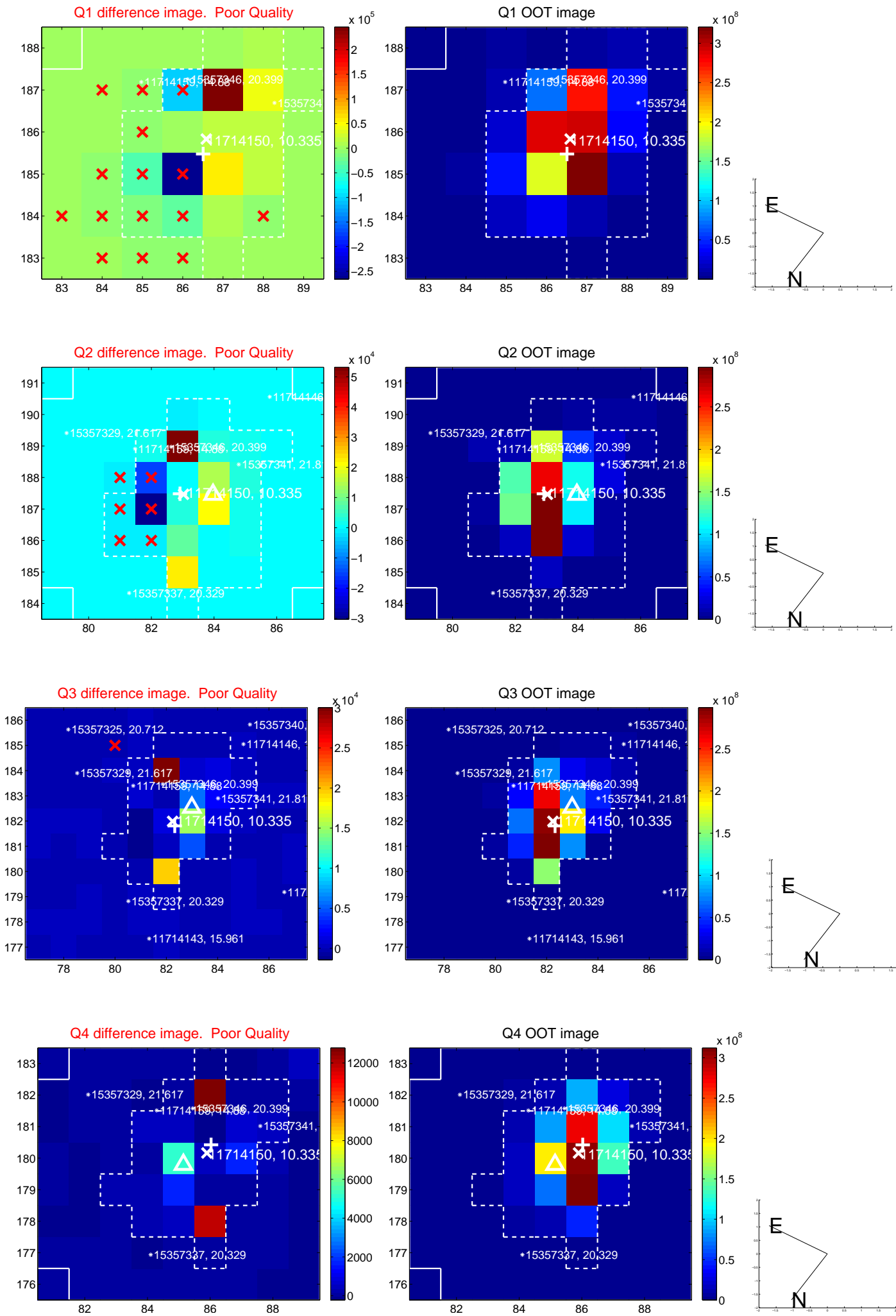
The direct PRF centroid is offset from the target star catalog position by about 1.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.907 ± 1.155	1.65	0.471 ± 0.963	-1.848 ± 1.100
PRF-fit source offset from KIC position	1.762 ± 0.920	1.91	-0.094 ± 0.951	-1.759 ± 0.934
photometric centroid source offset	0.35 ± 0.54	0.66	0.28 ± 0.45	0.22 ± 0.65

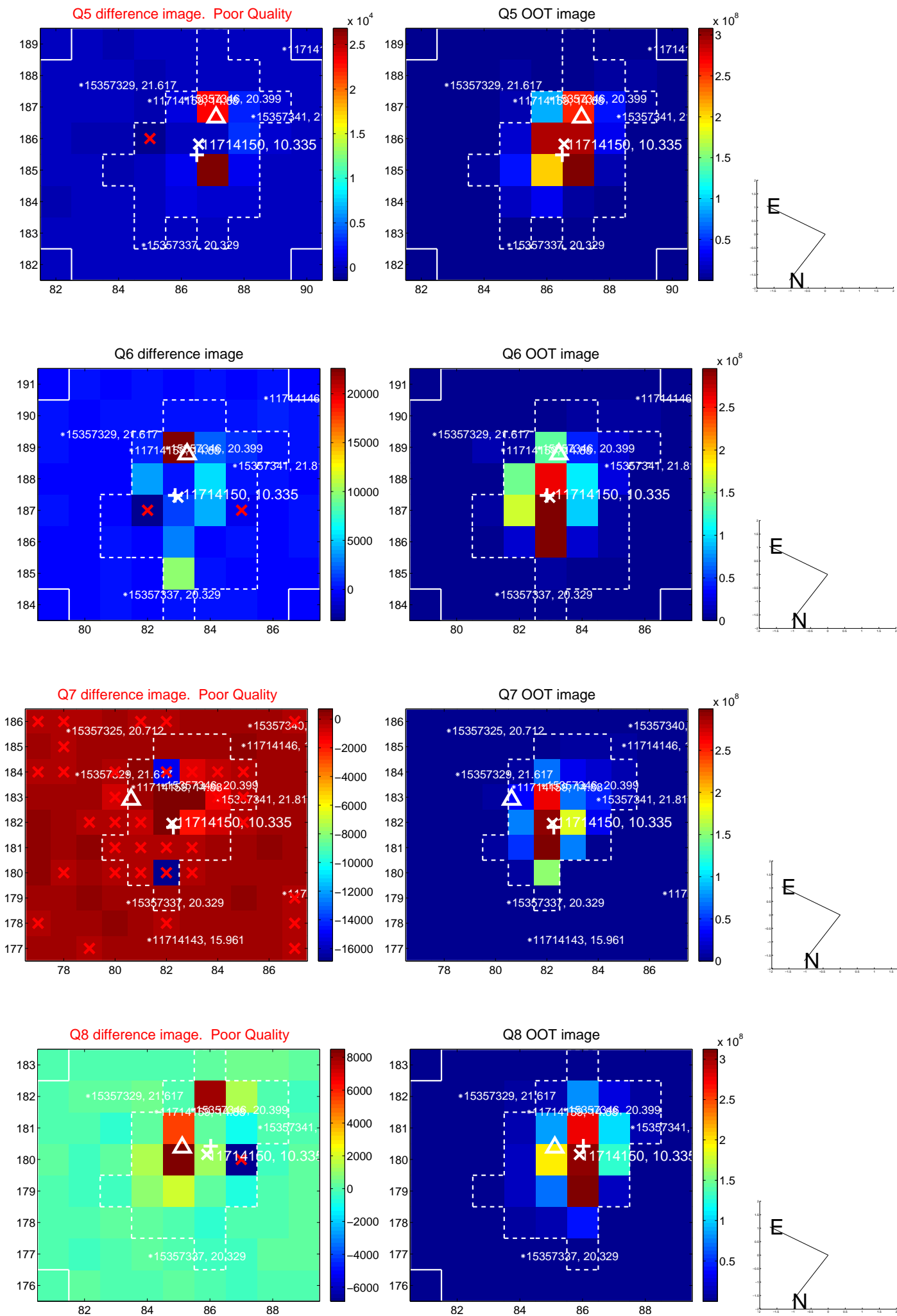


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

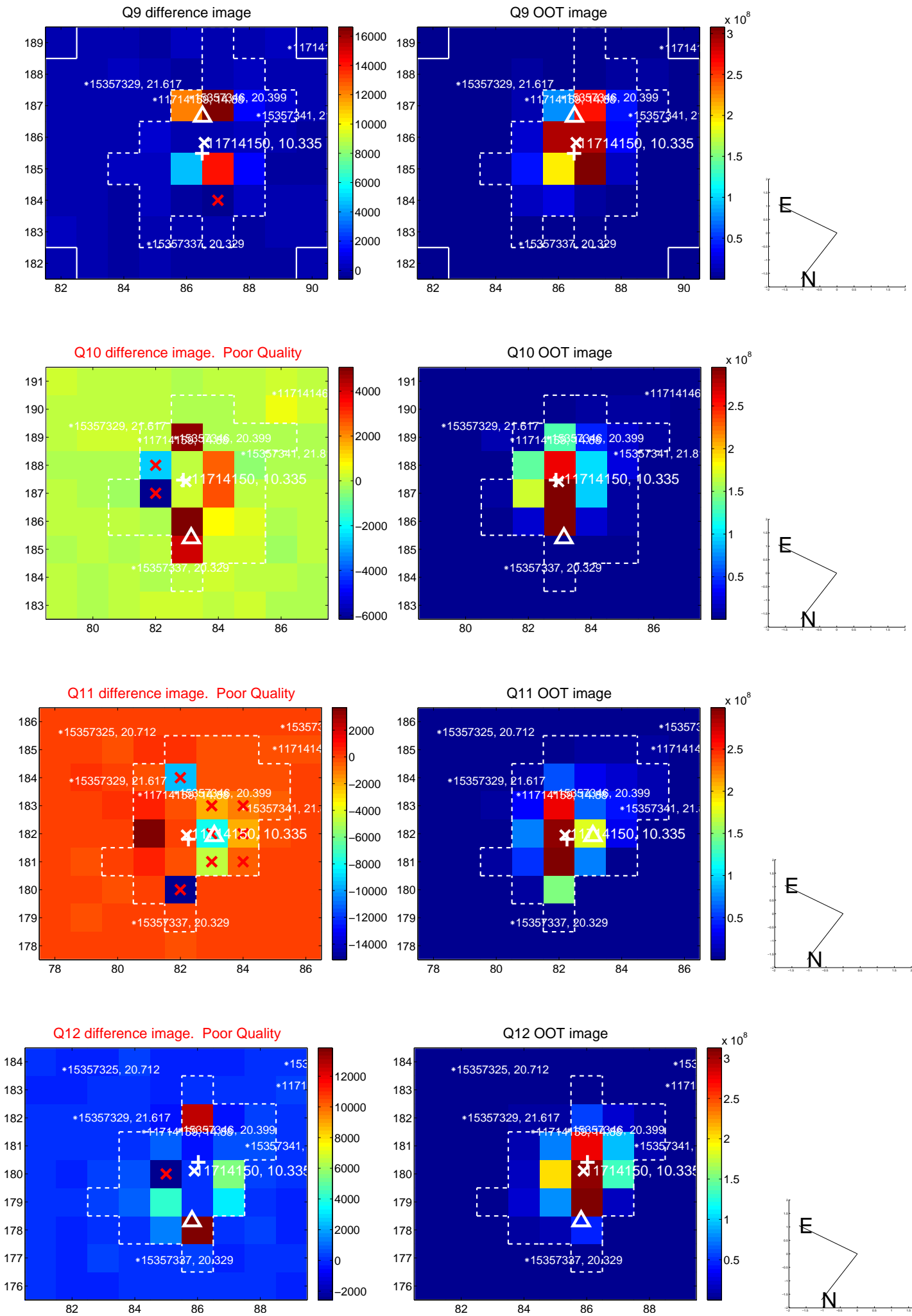
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



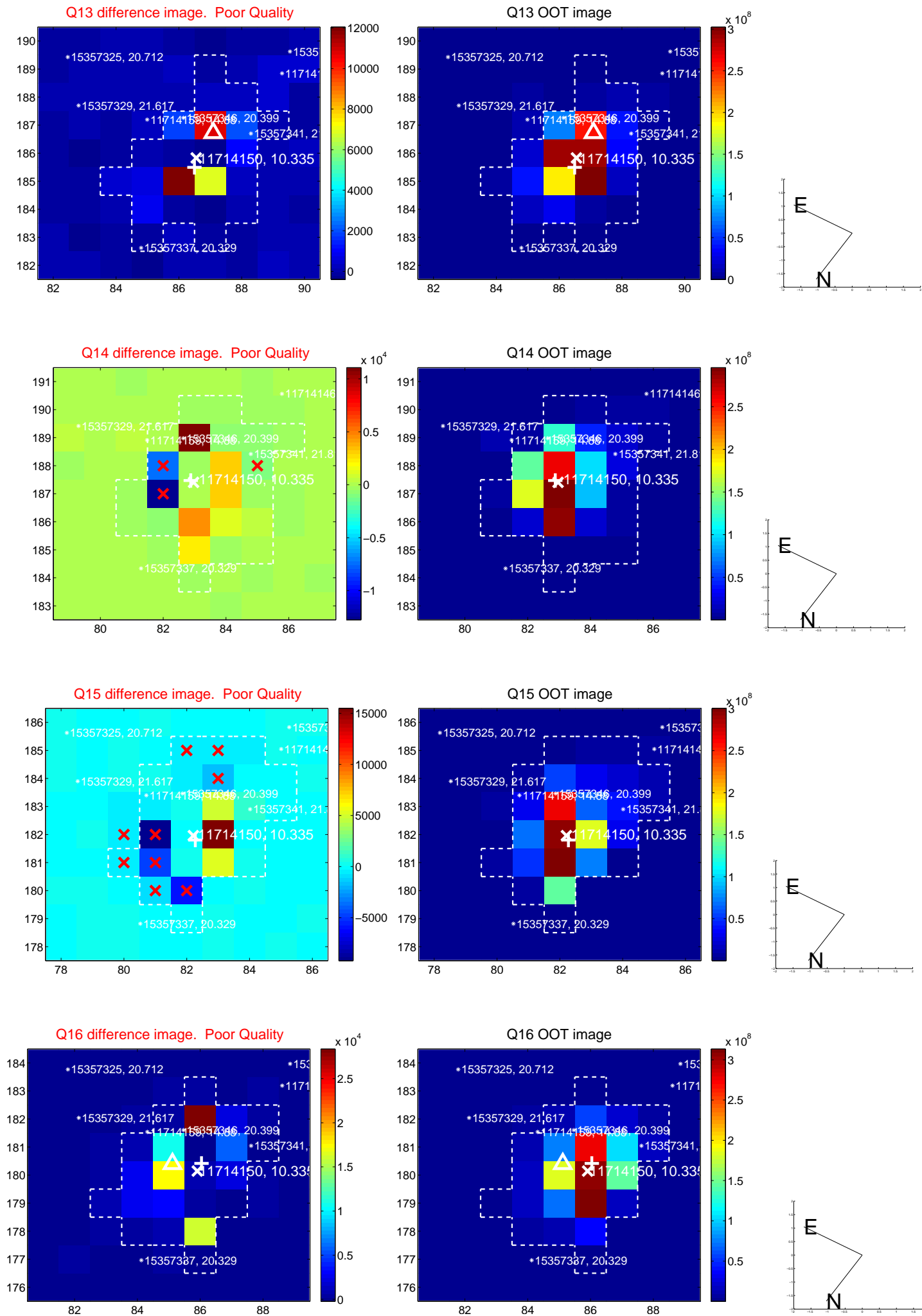
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



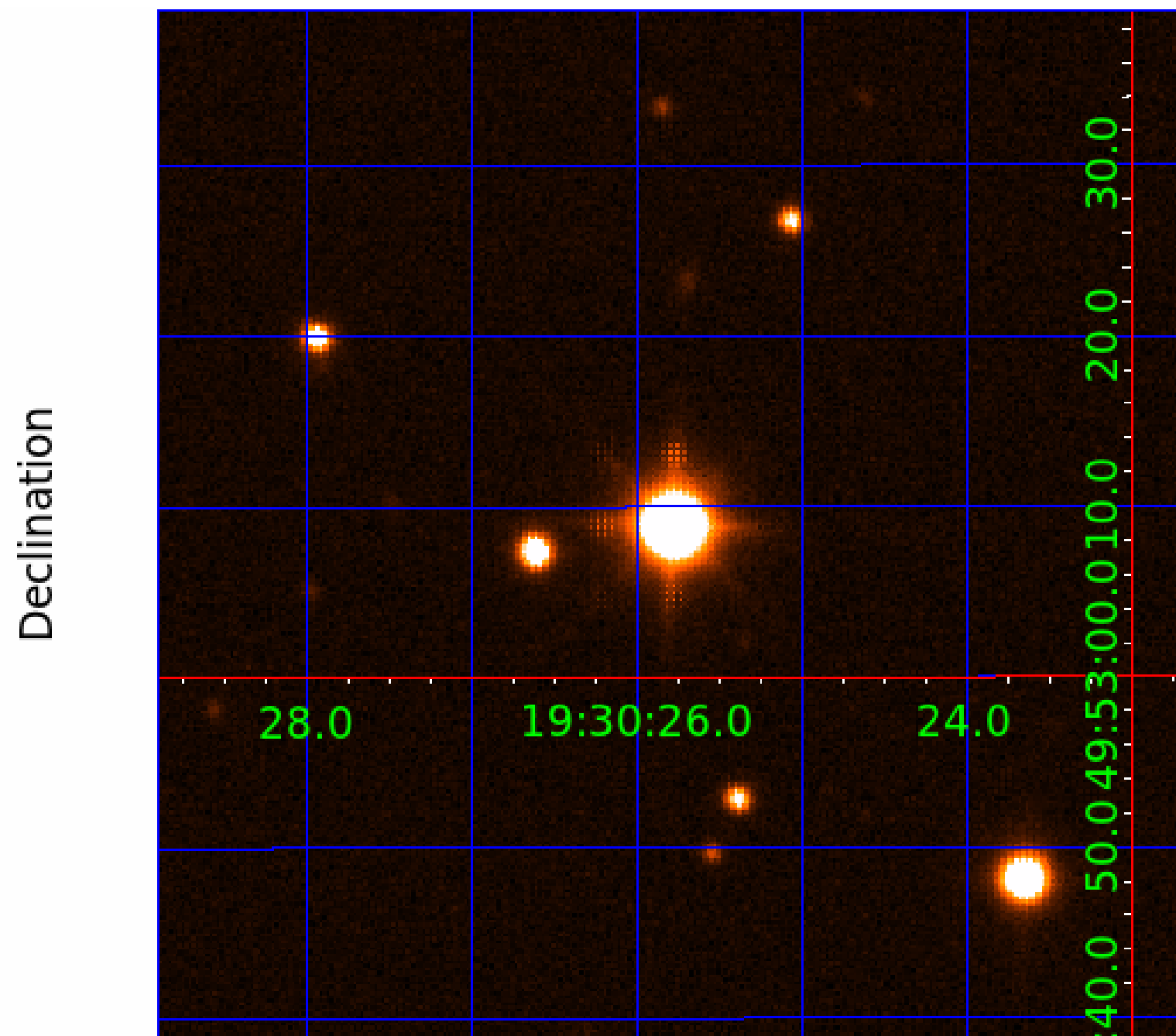
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 011714150

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})
011714150-01	OBS	No	1.694524	131.568784	18.0	5.780	10.9	9.1	3.06	8493	1.43	35398.43
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011714150-07	OBS	No	19.202625	140.092455	233.9	1.279	12.4	14.3	3.06	8493	4.77	1390.70
011714150-08	OBS	No	3.983876	135.127734	52.5	3.500	9.6	-1.0	3.06	8493	2.25	11323.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011714150-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
011714150-02	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
011714150-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
011714150-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST
011714150-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

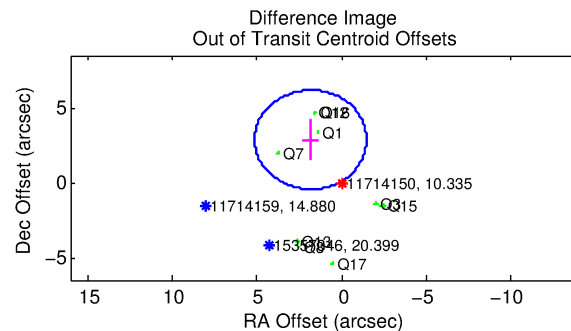
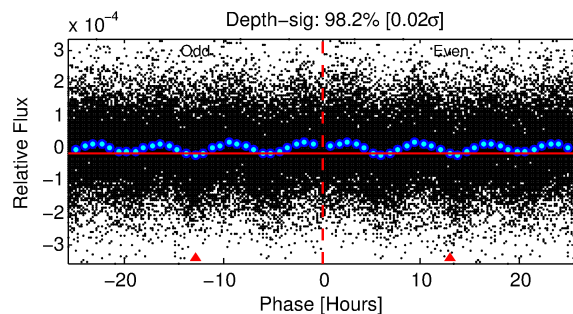
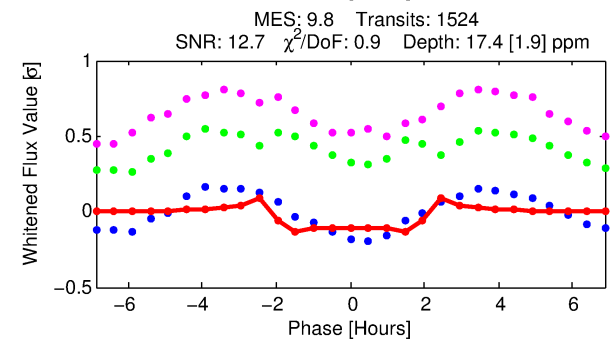
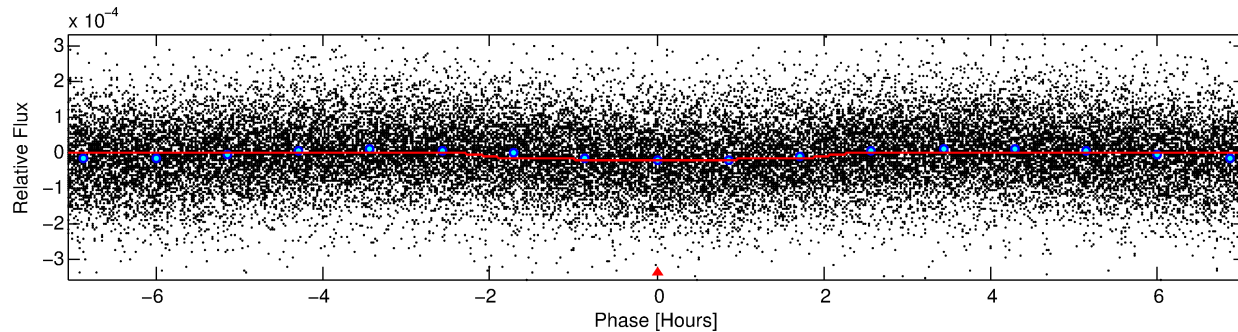
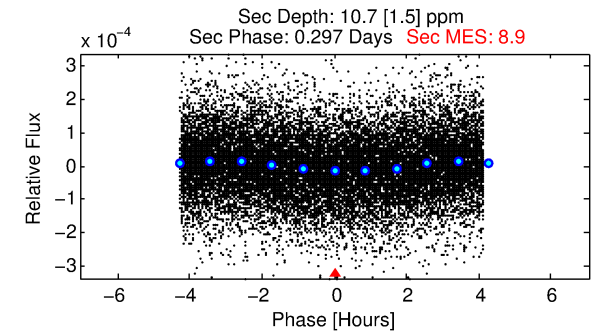
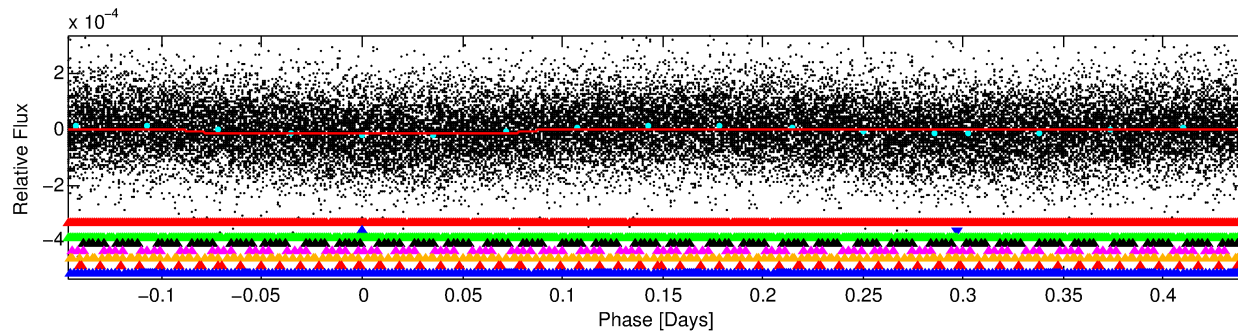
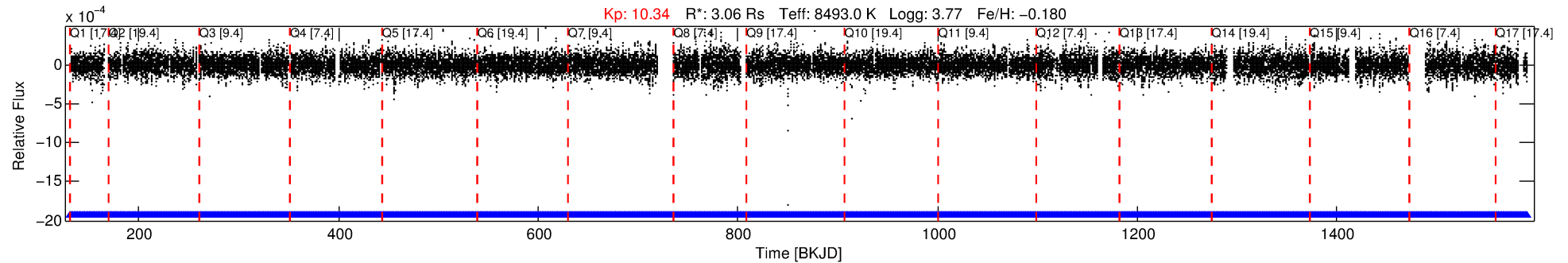
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011714150-02

No Significant Match Found

DV One-Page Summary

KIC: 11714150 Candidate: 2 of 8 Period: 0.589 d



DV Fit Results:

Period = 0.58855 [0.00001] d
Epoch = 131.8632 [0.0017] BKJD
Rp/R* = 0.0044 [0.0009]
a/R* = 1.05 [0.14]
b = 0.90 [0.29]
Seff = 144989.99 [108317.18]
Teq = 4976 [929] K
Rp = 1.48 [0.72] Re
a = 0.0174 [0.0077] AU
Ag = 0.81 [0.68] [-0.28σ]
Teffp = 7292 [858] K [1.83σ]

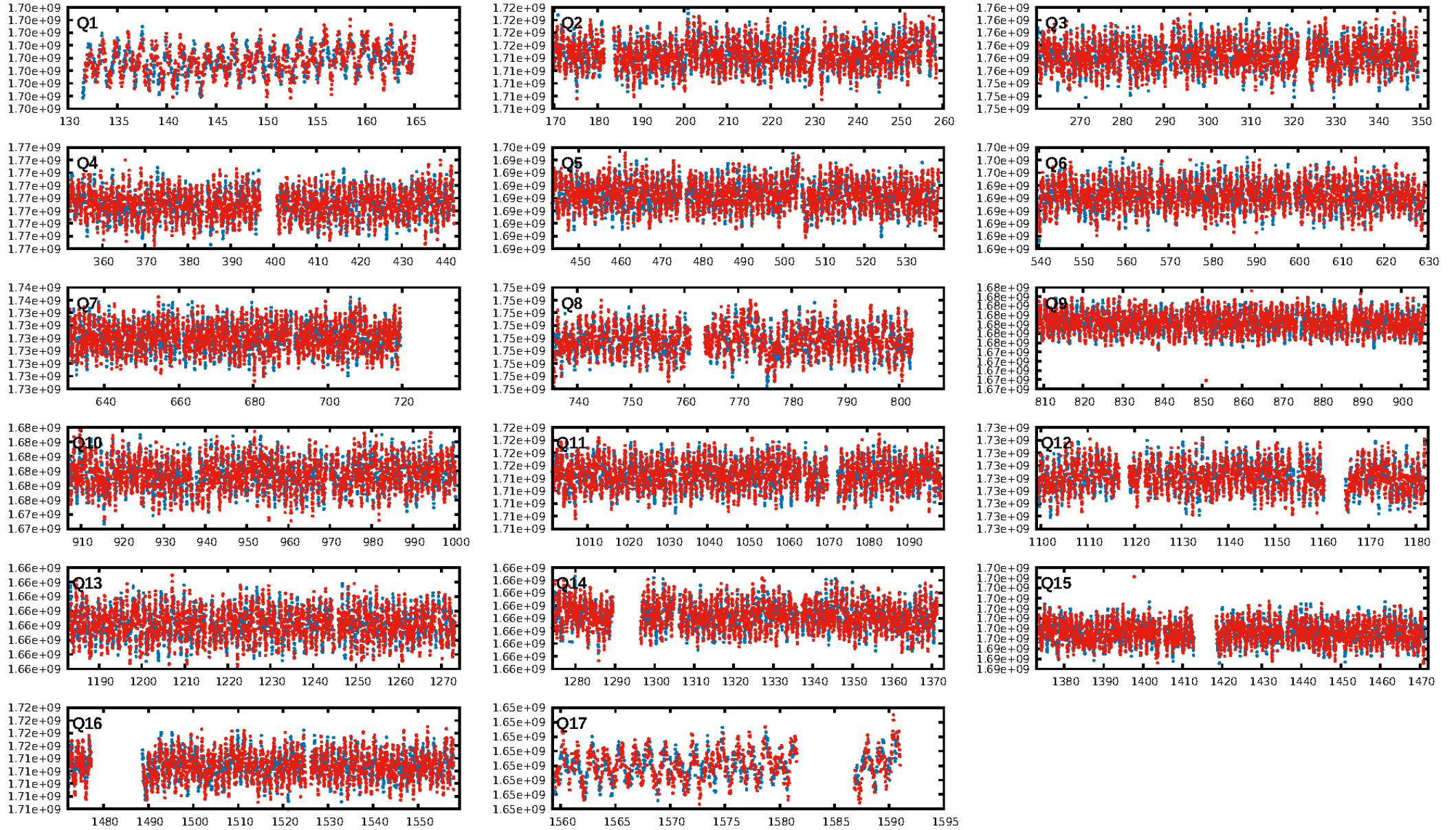
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [3.69σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1456/1456]
GhostDiagnostic-chr: 0.9133
Centroid-sig: 2.4%
Centroid-so: 0.752 arcsec [1.90σ]
OotOffset-rm: 3.402 arcsec [3.09σ]
OotOffset-st: 0/3/3 [9]
KicOffset-rm: 3.377 arcsec [2.93σ]
KicOffset-st: 0/3/3 [9]
DiffImageQuality-fgm: 0.00 [0/9]
DiffImageOverlap-fno: 1.00 [17/17]

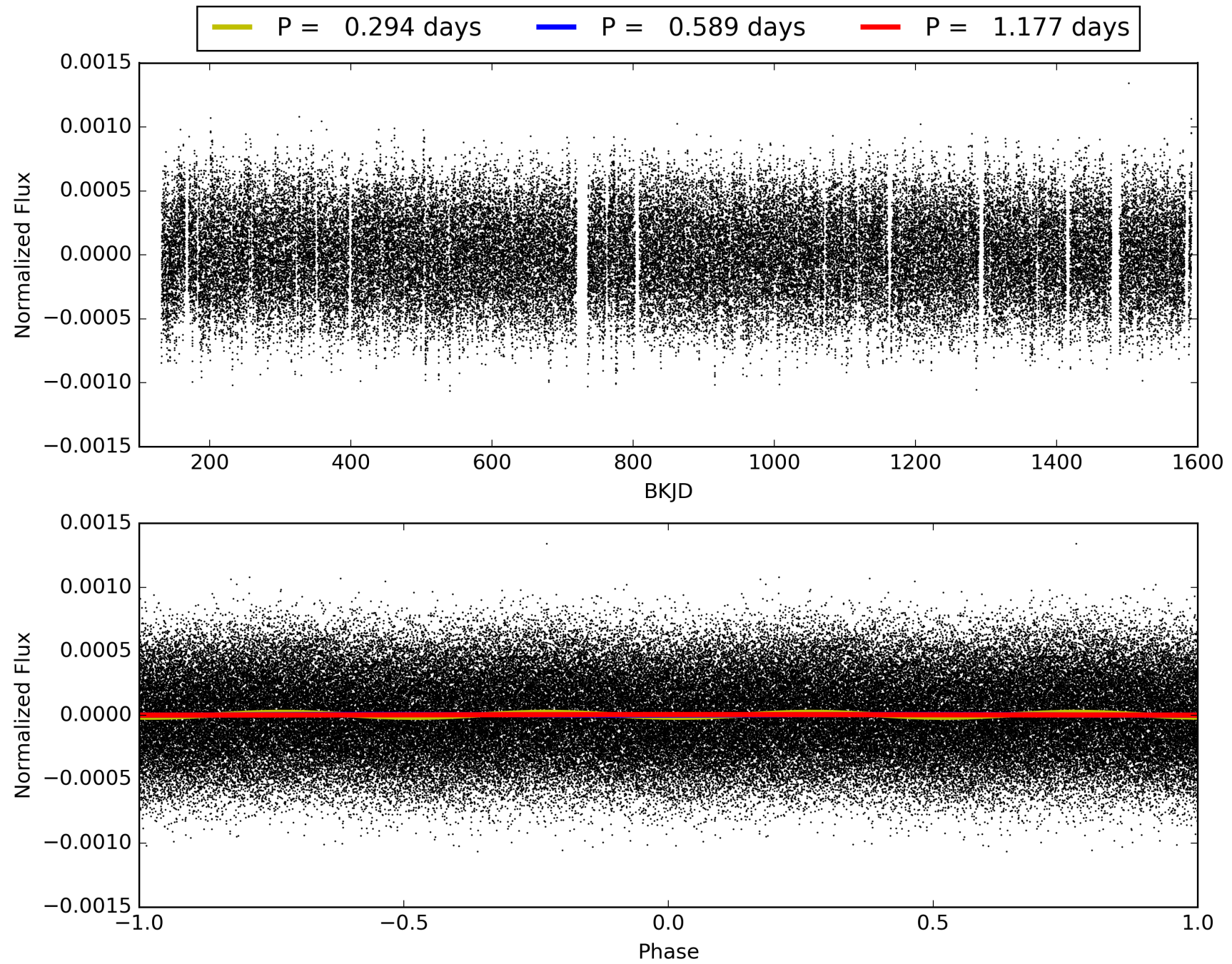
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:24:49 Z

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

TCE 011714150-02, PDC Light Curves

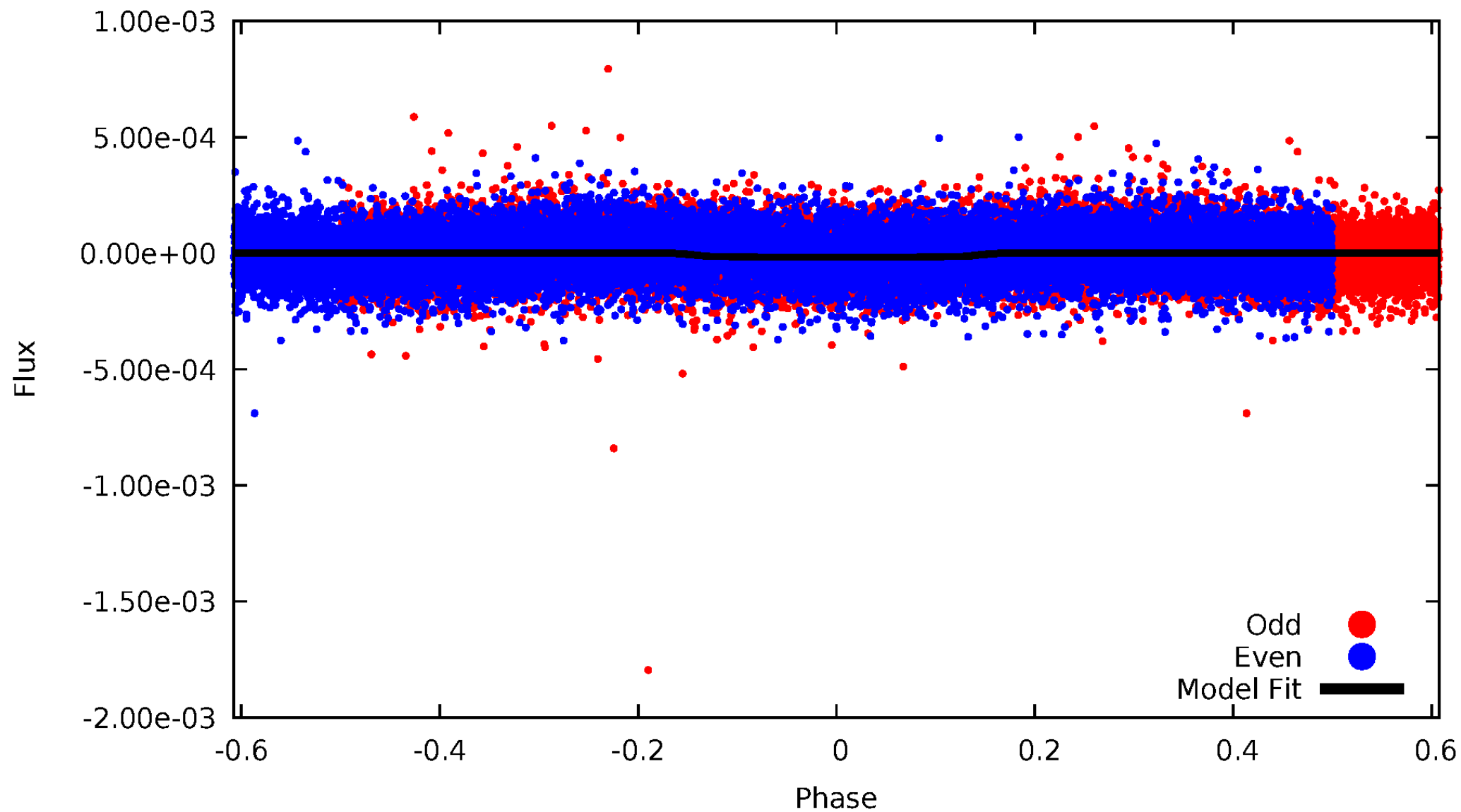


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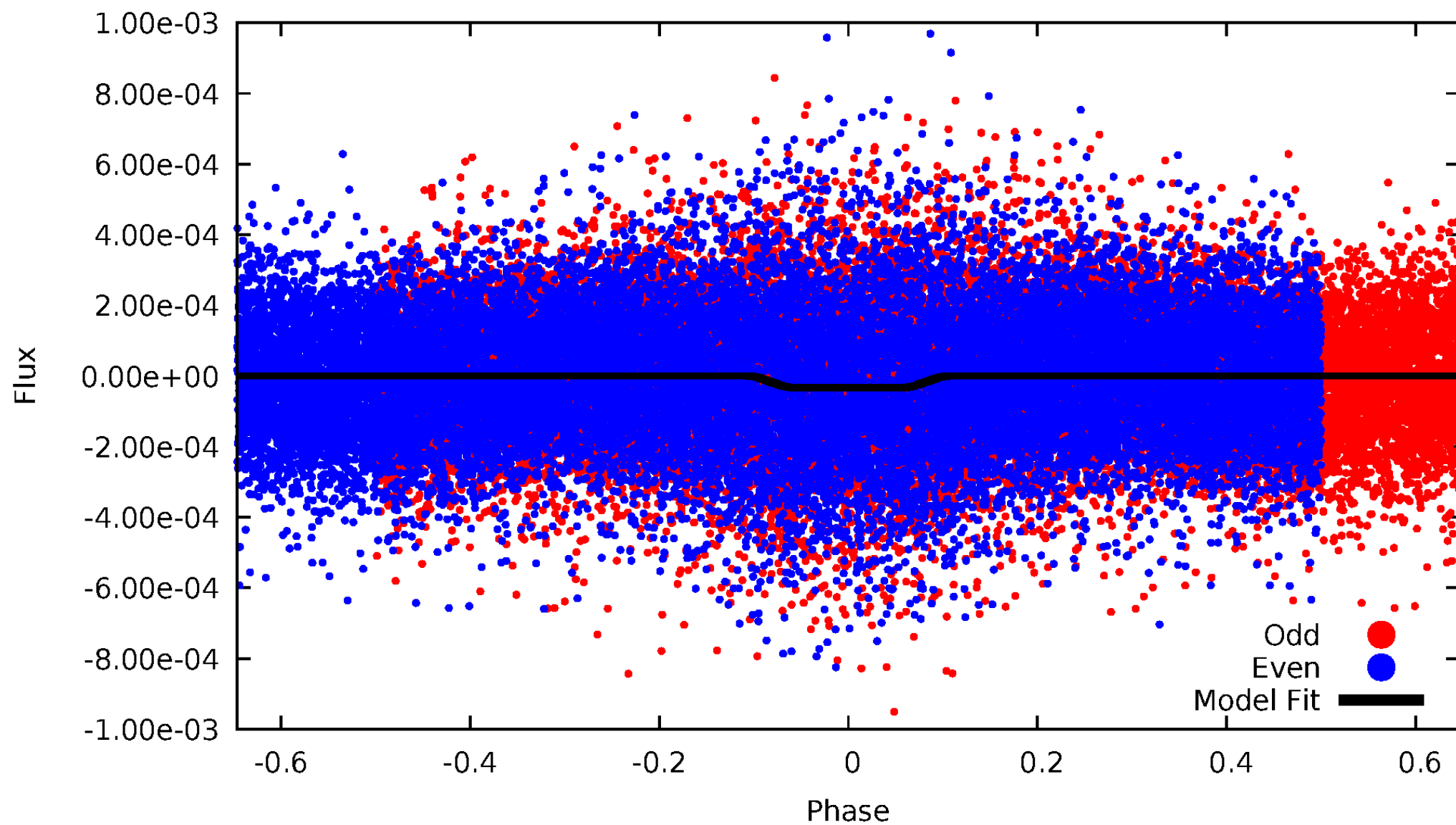
DV Odd/Even

TCE 011714150-02



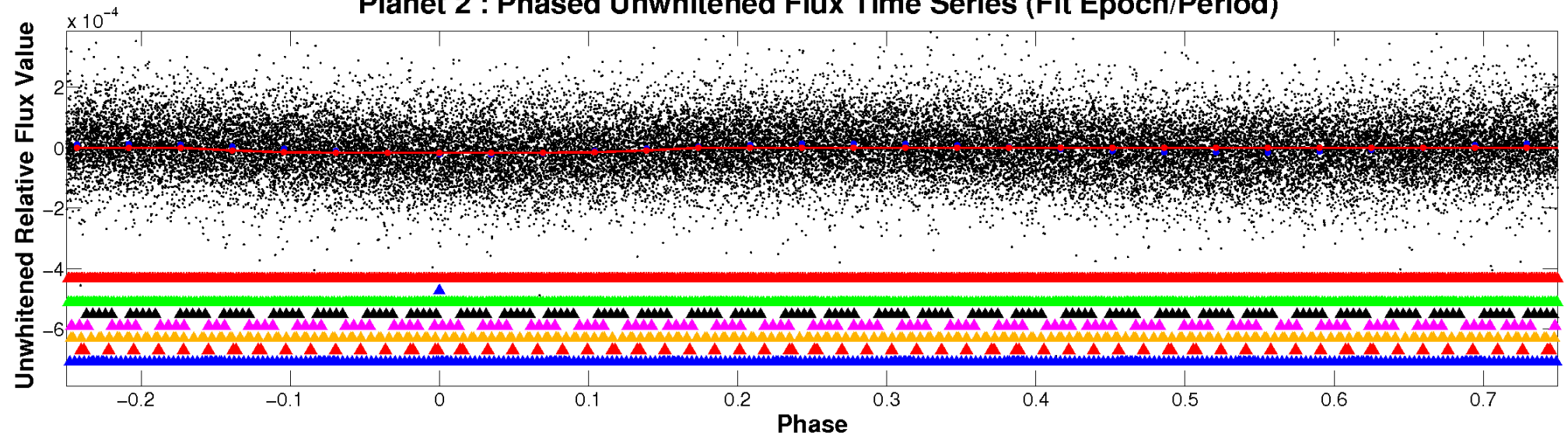
ALT Odd/Even

TCE 011714150-02

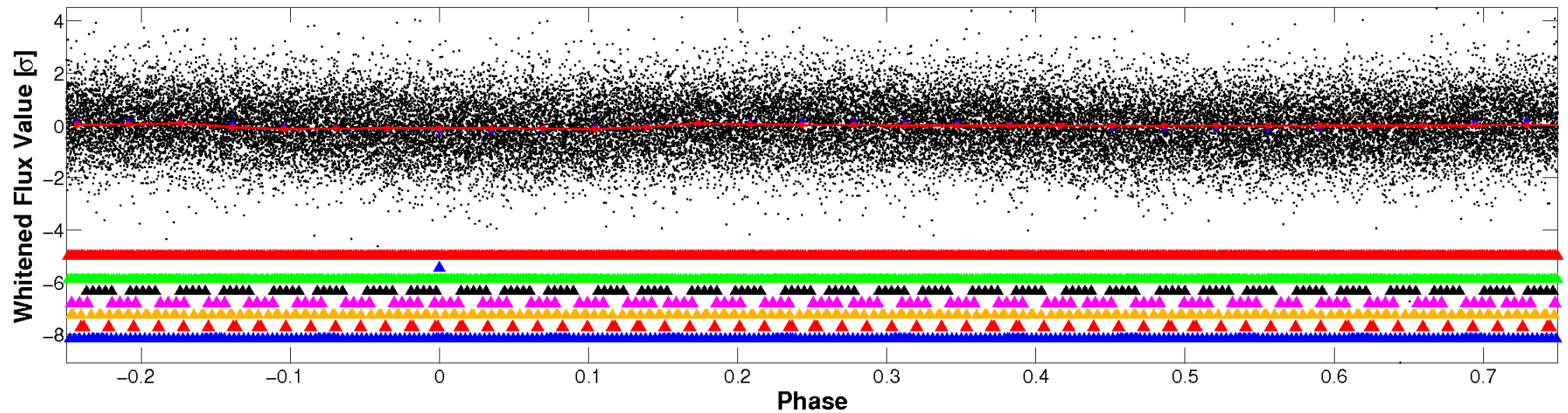


Non-Whitened Vs. Whitened Light Curve

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

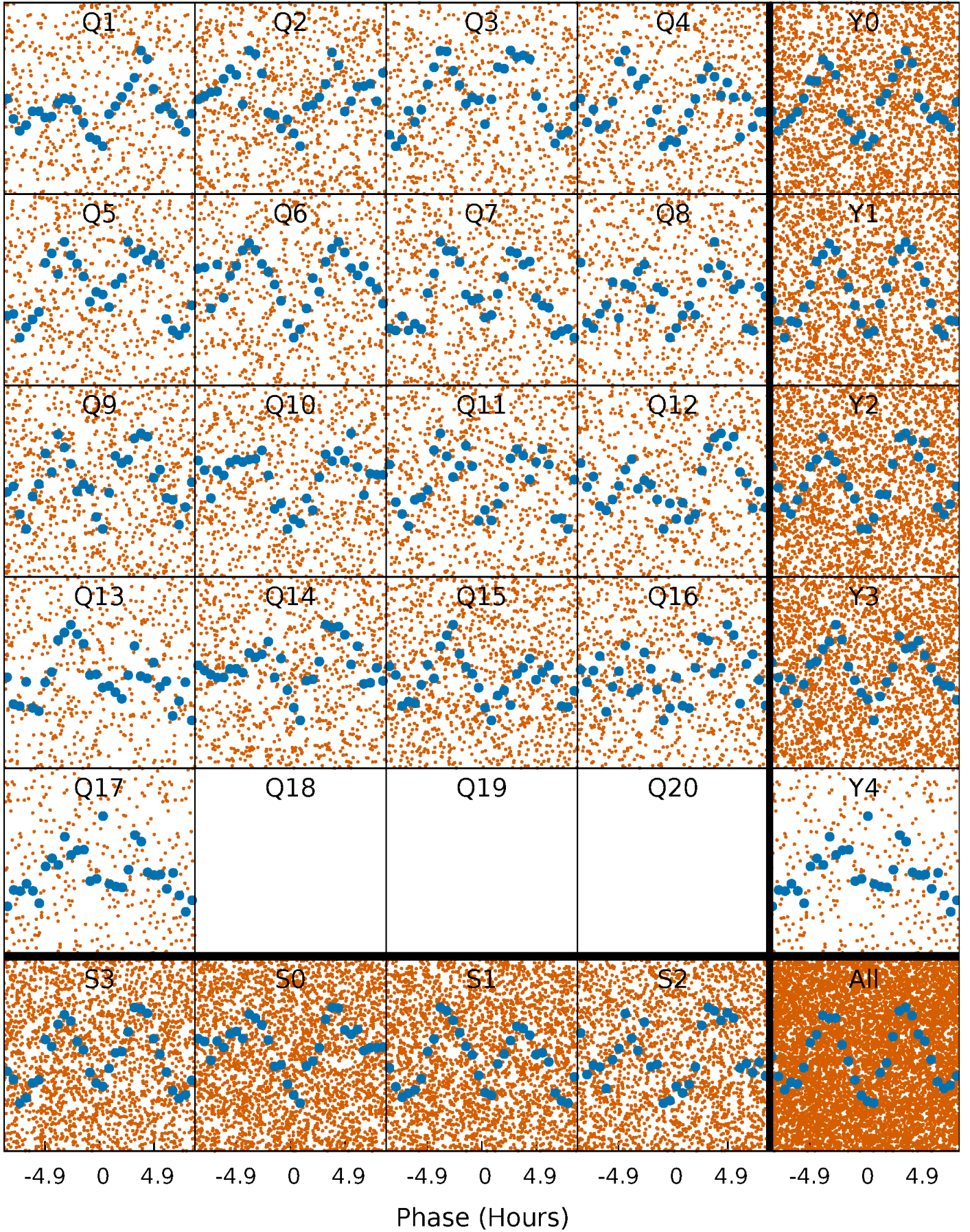


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



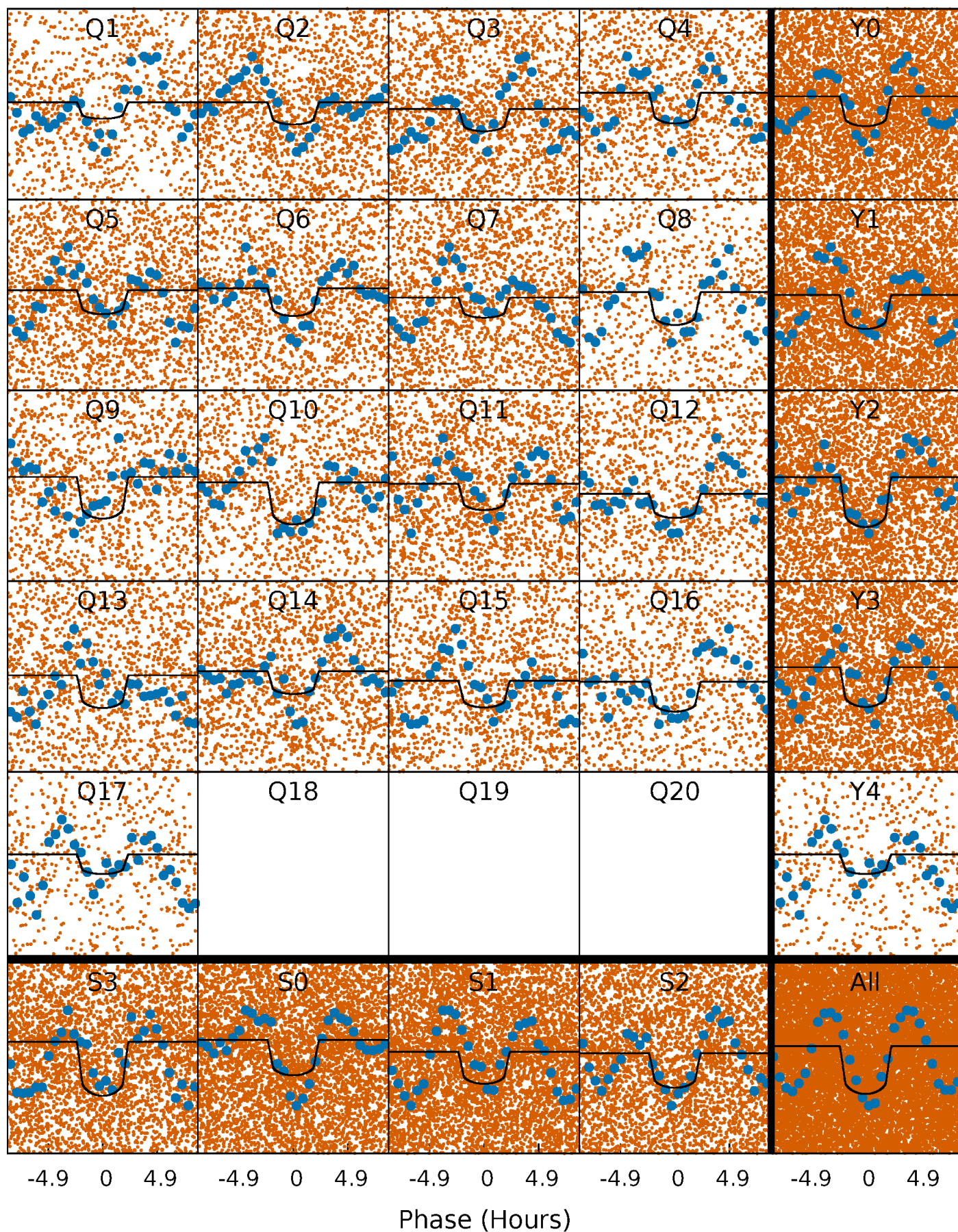
PDC Quarter-Phased Transit Curves

TCE 011714150-02 P= 0.588549 Days $T_0=131.863166$ (BKJD)



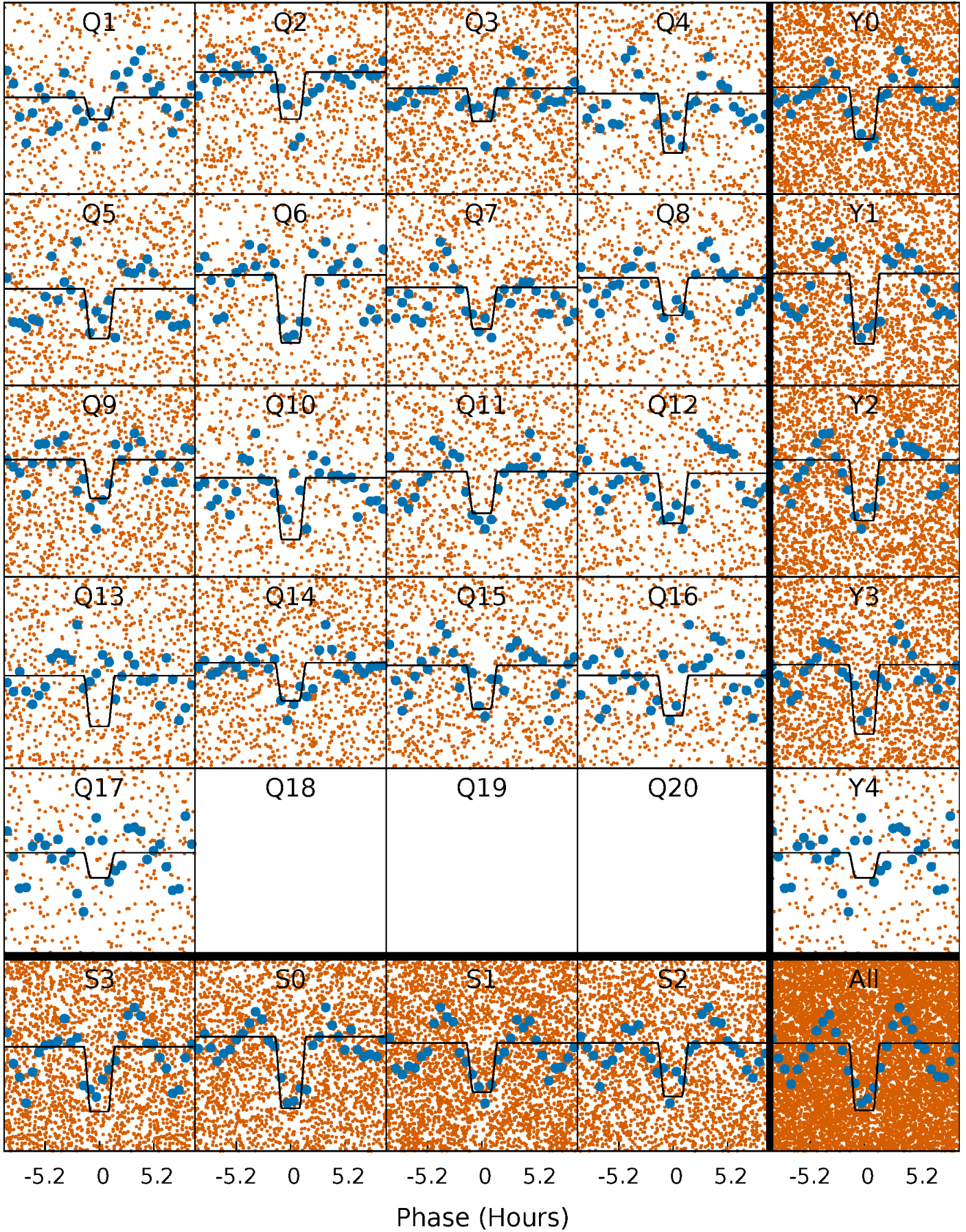
DV Quarter-Phased Transit Curves

TCE 011714150-02 P= 0.588549 Days $T_0=131.863166$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

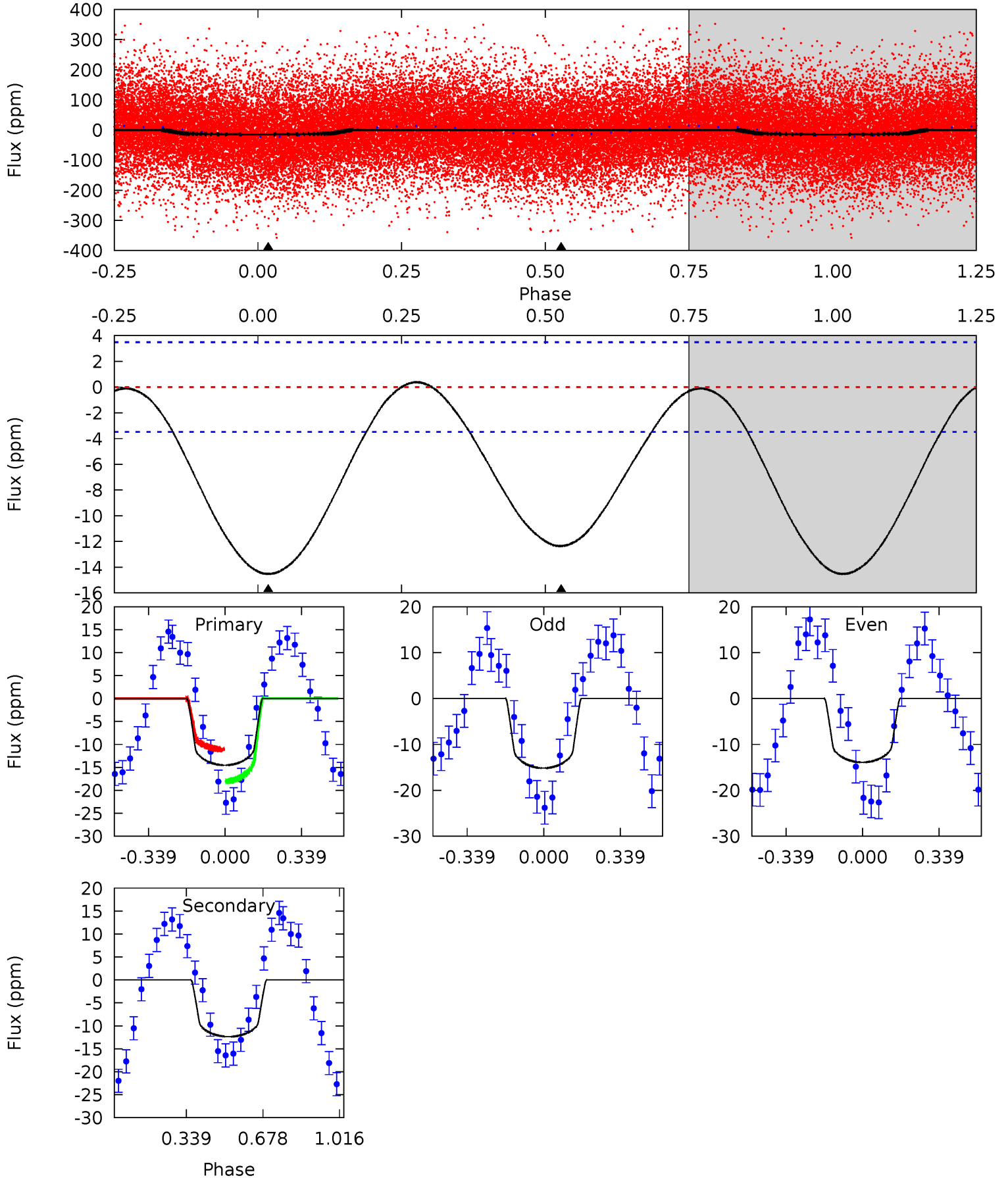
TCE 011714150-02 P= 0.588564 Days $T_0=131.857020$ (BKJD)



DV Model-Shift Uniqueness Test

011714150-02, P = 0.588549 Days, E = 131.863166 Days

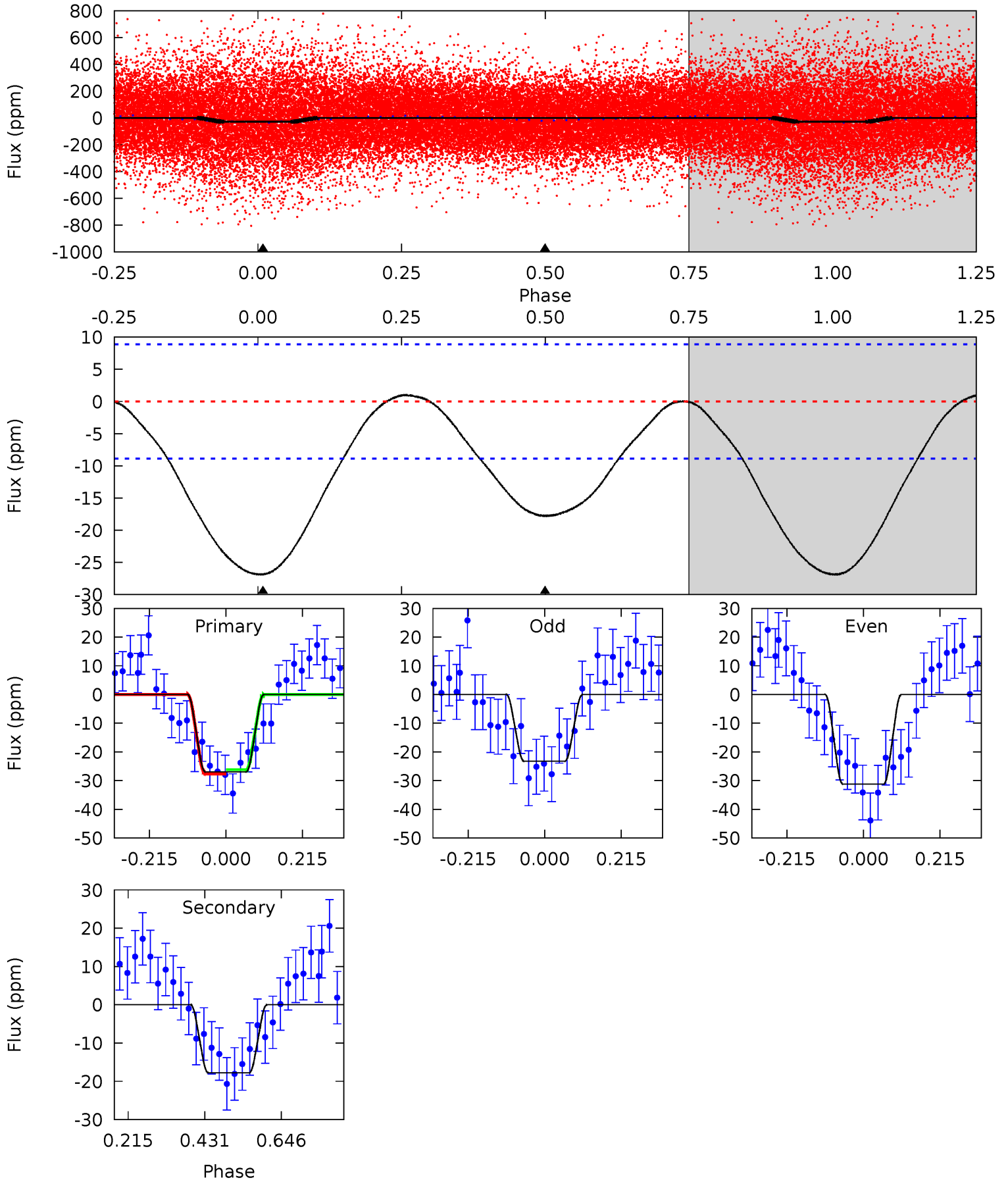
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.9	15.3	0	0	4.30	0.96	0.29	17.9	17.9	15.3	15.3	0.77	1.00	0.03	4.19



Alt Model-Shift Uniqueness Test

011714150-02, P = 0.588564 Days, E = 131.857020 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	8.82	0	0	4.40	1.24	0.51	13.3	13.3	8.82	8.82	1.96	1.04	0.04	0.36



Stellar Parameters For KIC 011714150

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8493^{+235}_{-383}	$3.770^{+0.432}_{-0.135}$	$-0.180^{+0.300}_{-0.350}$	$3.061^{+0.785}_{-1.345}$	$2.017^{+0.345}_{-0.474}$	$0.099^{+0.376}_{-0.041}$
	+3%/-5%	+11%/-4%	+167%/-194%	+26%/-44%	+17%/-24%	+379%/-41%
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 011714150-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-12 ± 1	$1.38^{+0.44}_{-0.40}$	6744^{+583}_{-757}	6707^{+1244}_{-973}	$1.119^{+0.990}_{-0.483}$
Alt.	-18 ± 2	$1.76^{+0.50}_{-0.46}$	6714^{+555}_{-788}	6387^{+916}_{-933}	$0.942^{+0.757}_{-0.351}$

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

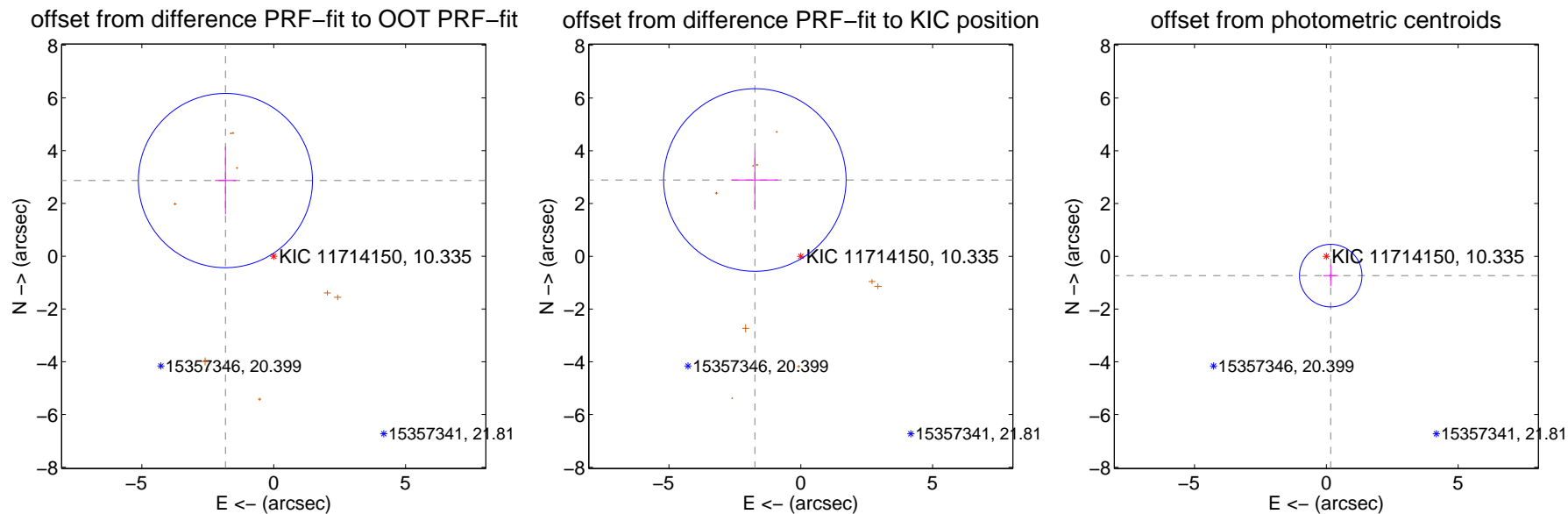
DV Centroid Data

Supplemental centroid analysis for 011714150-02. **Kepler magnitude: 10.34.** Transit SNR 12.68

There are 0 quarters with good PRF difference image offsets

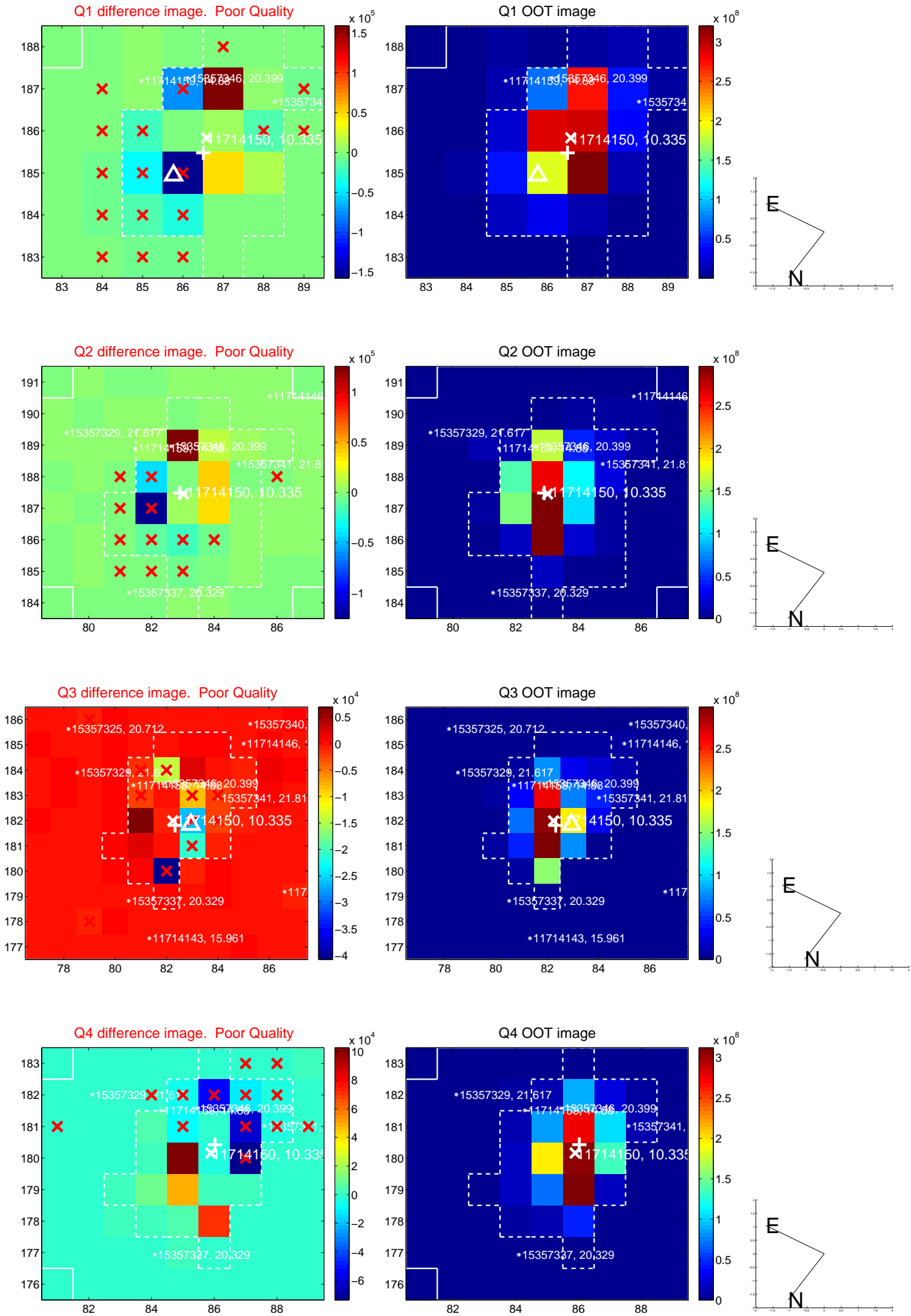
The direct PRF centroid is offset from the target star catalog position by about 1.32 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.402 ± 1.101	3.09	1.831 ± 0.397	2.868 ± 1.281
PRF-fit source offset from KIC position	3.377 ± 1.154	2.93	1.742 ± 0.877	2.893 ± 1.126
photometric centroid source offset	0.75 ± 0.40	1.90	-0.17 ± 0.28	-0.73 ± 0.40

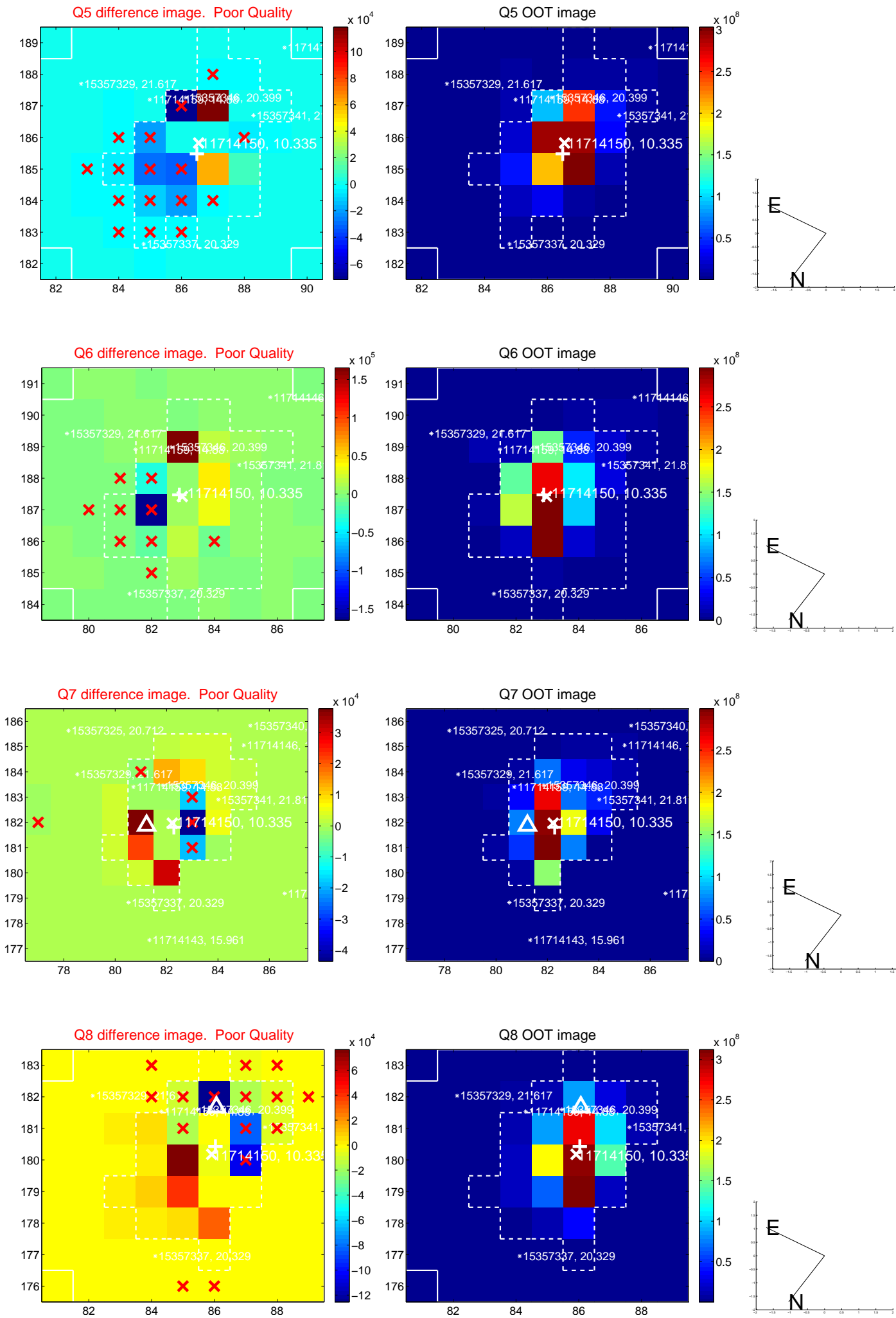


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

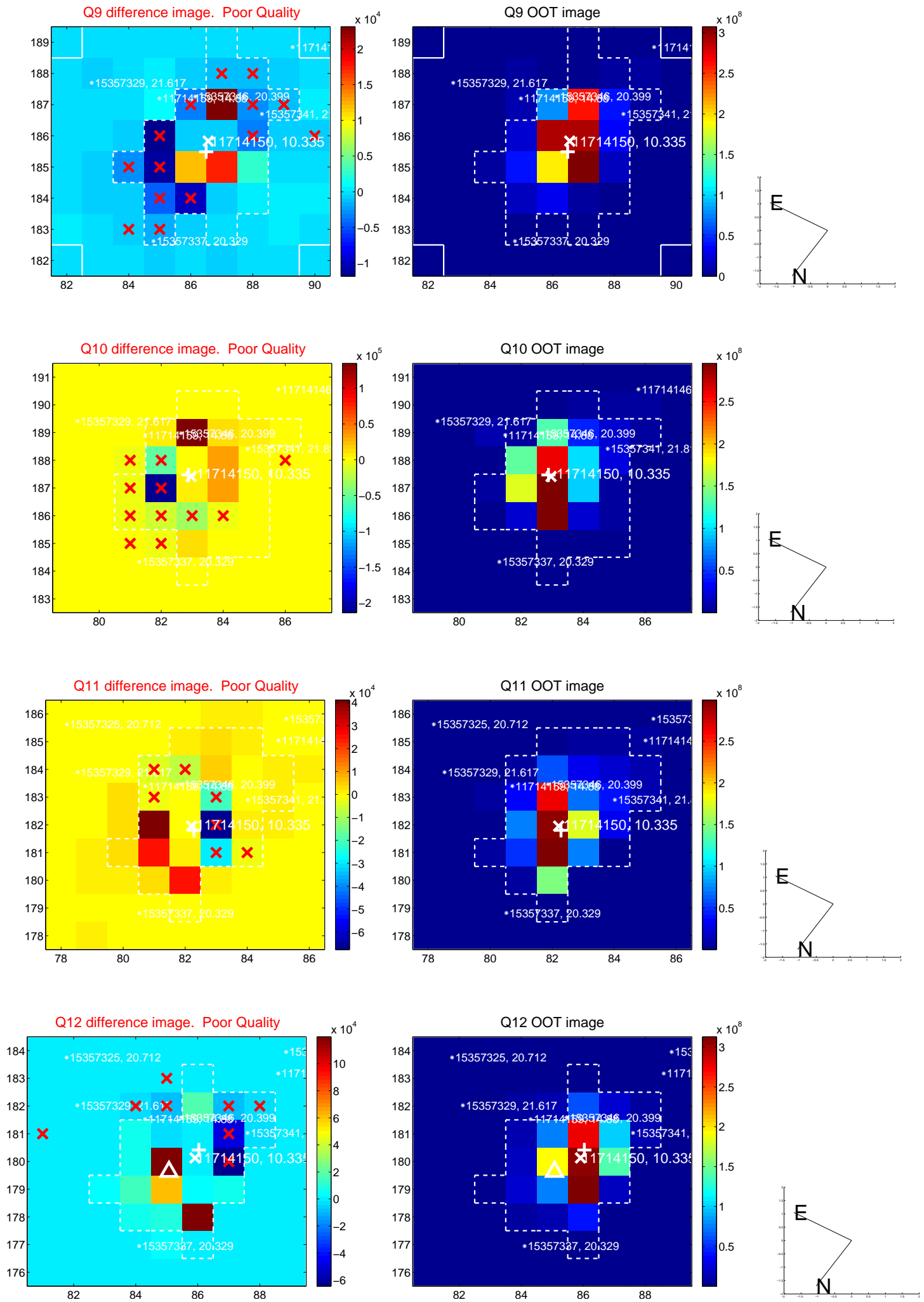
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



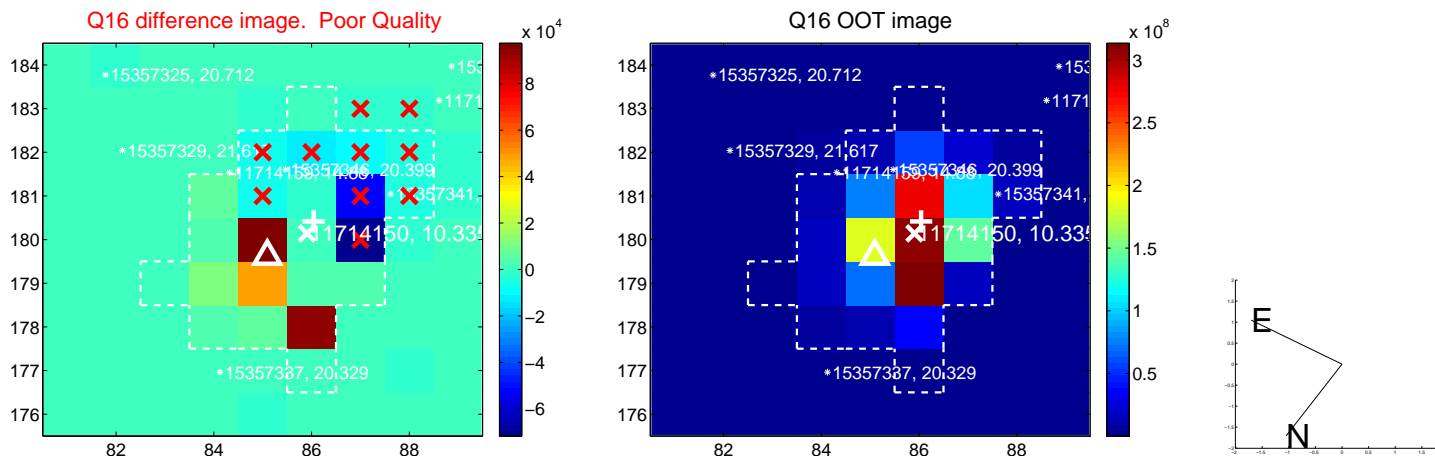
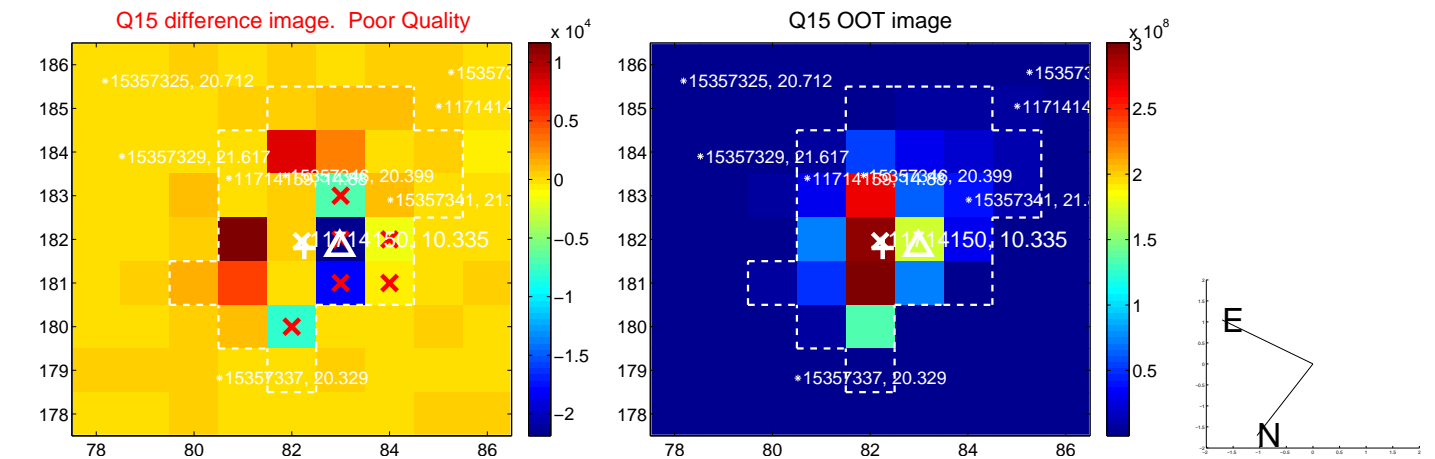
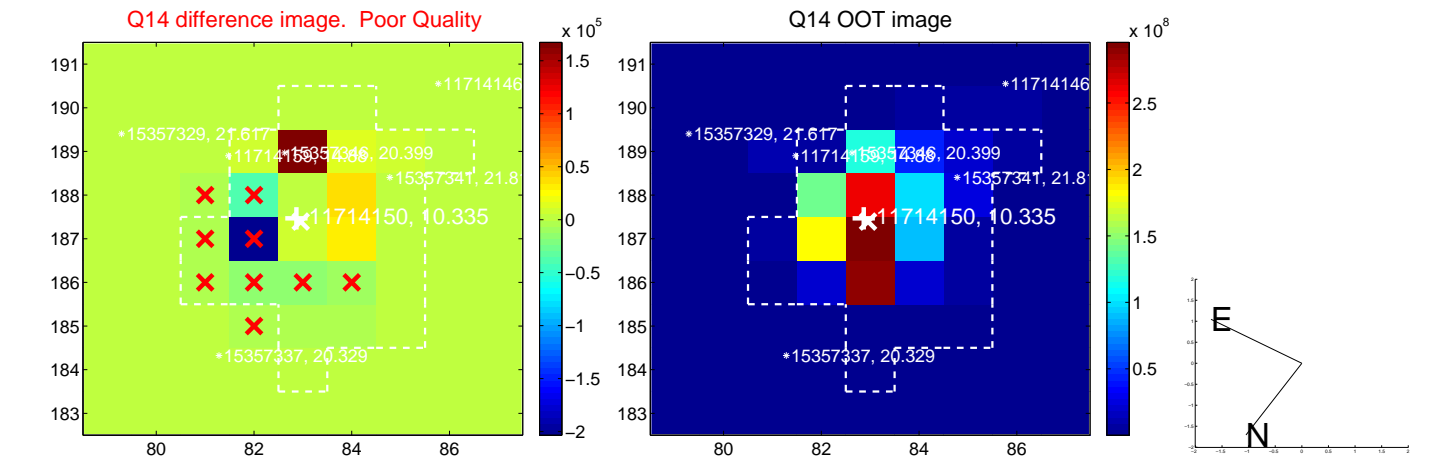
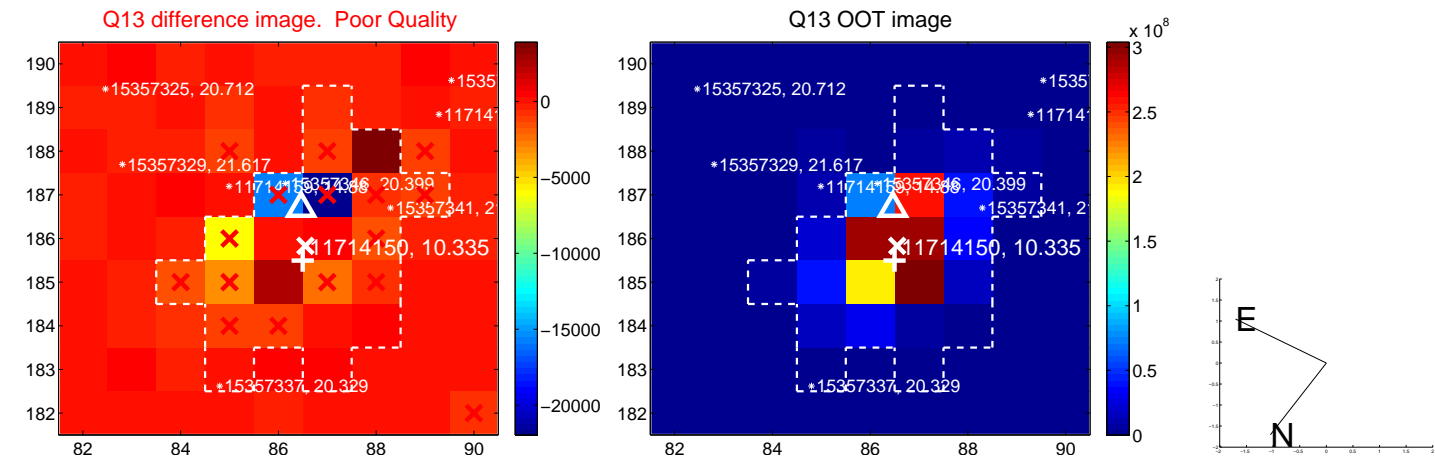
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



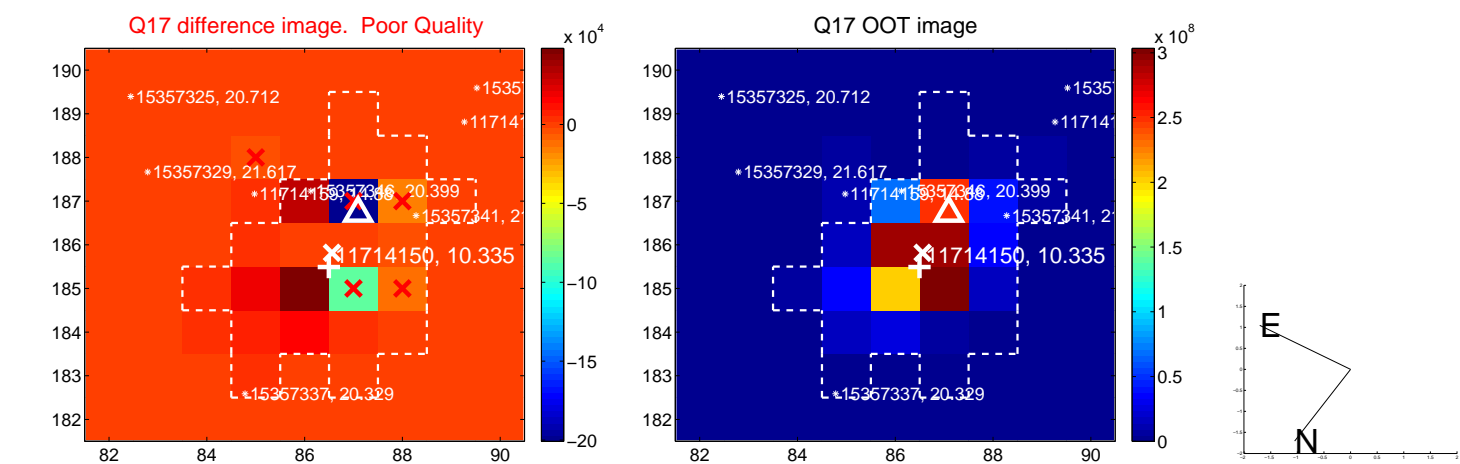
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



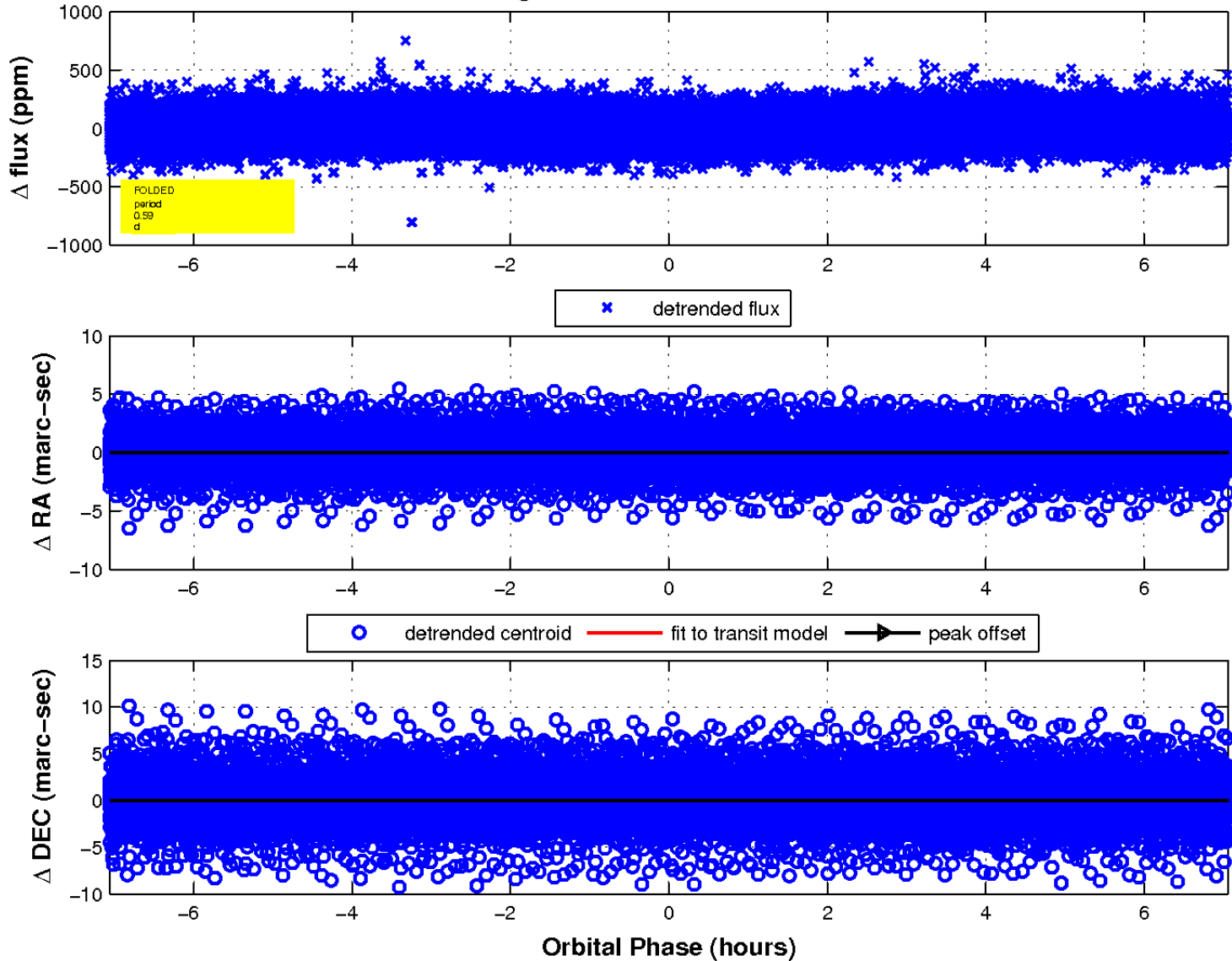
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



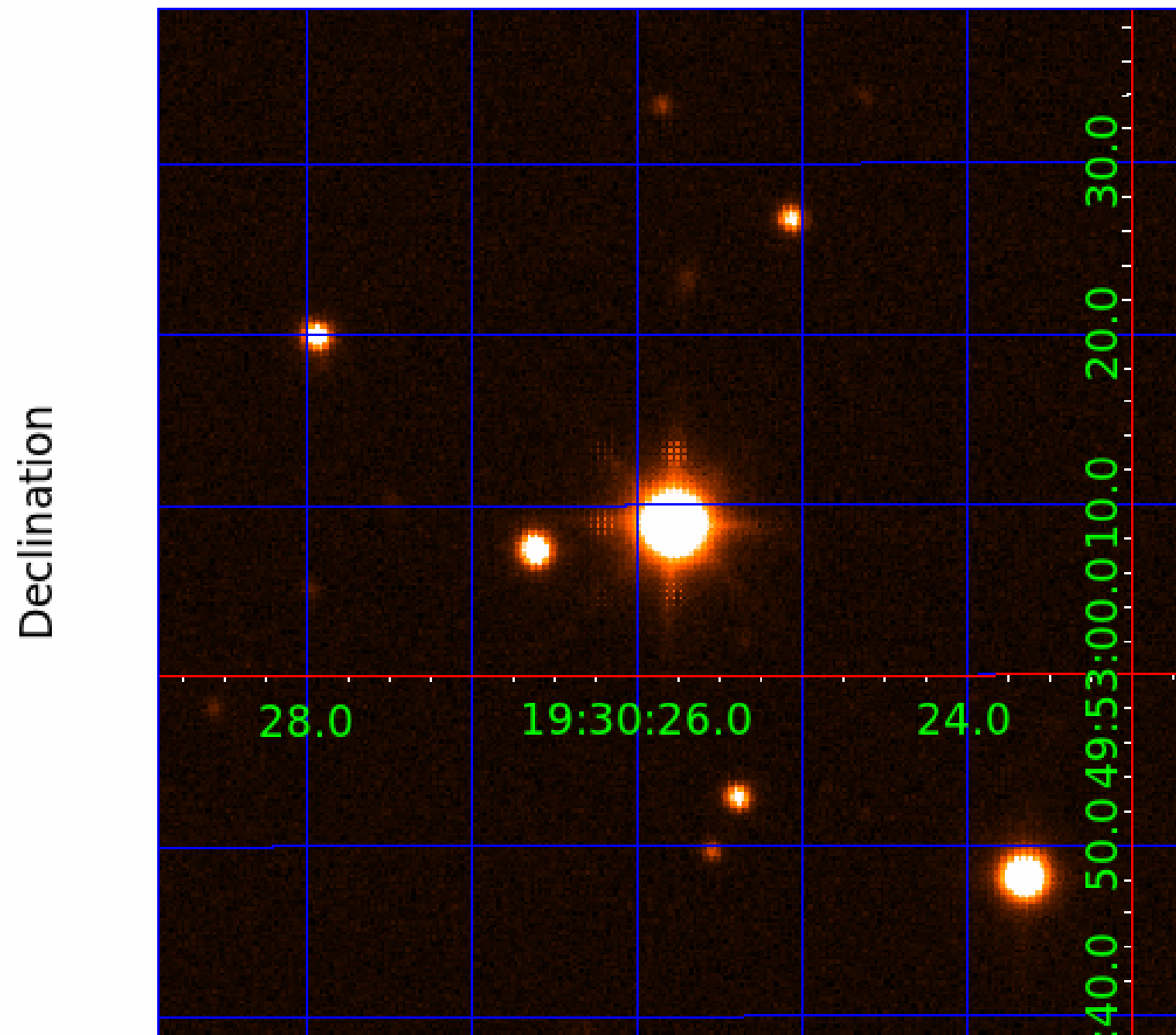
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 2 of 8



UKIRT Image



KIC 011714150

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})
011714150-01	OBS	No	1.694524	131.568784	18.0	5.780	10.9	9.1	3.06	8493	1.43	35398.43
011714150-02	OBS	No	0.588549	131.863166	17.4	4.290	9.8	12.7	3.06	8493	1.49	144989.99
011714150-03	OBS	No	2.074040	133.479216	0.2	3.064	17.8	0.1	3.06	8493	0.15	27036.99
011714150-04	OBS	No	9.140972	135.124696	78.5	1.350	12.1	3.2	3.06	8493	2.85	3741.61
011714150-05	OBS	No	11.605539	132.026703	180.5	1.517	14.6	13.3	3.06	8493	4.23	2721.62
011714150-06	OBS	No	5.955380	134.847991	53.9	6.501	13.7	7.6	3.06	8493	2.52	6624.73
011714150-07	OBS	No	19.202625	140.092455	233.9	1.279	12.4	14.3	3.06	8493	4.77	1390.70
011714150-08	OBS	No	3.983876	135.127734	52.5	3.500	9.6	-1.0	3.06	8493	2.25	11323.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011714150-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
011714150-02	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
011714150-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
011714150-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST
011714150-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

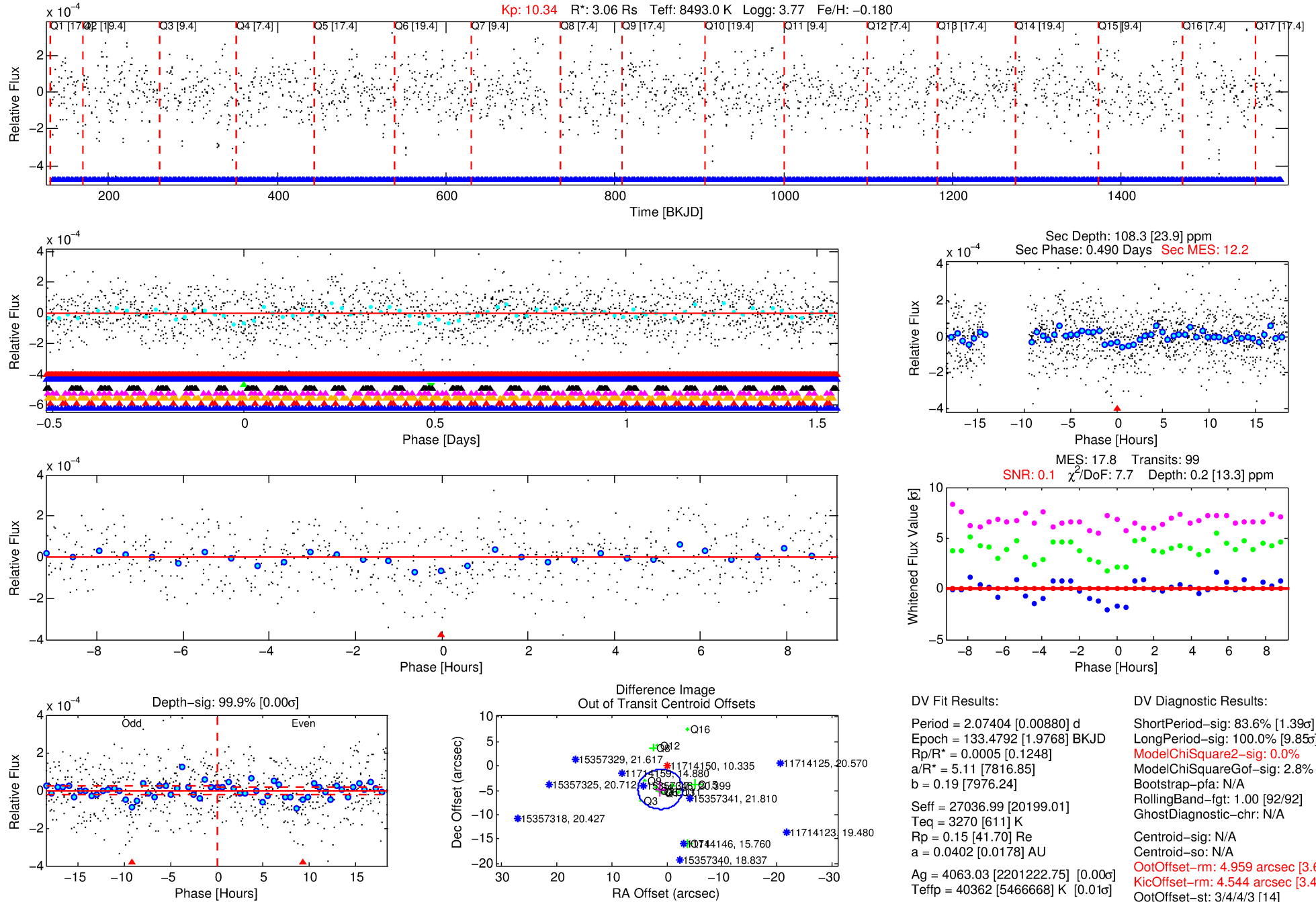
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011714150-03

No Significant Match Found

DV One-Page Summary

KIC: 11714150 Candidate: 3 of 8 Period: 2.074 d



DV Fit Results:

Period = 2.07404 [0.00880] d
Epoch = 133.4792 [1.9768] BKJD
Rp/R* = 0.0005 [0.1248]
a/R* = 5.11 [7816.85]
b = 0.19 [7976.24]
Seff = 27036.99 [20199.01]
Teff = 3270 [611] K
Rp = 0.15 [41.70] Re
a = 0.0402 [0.0178] AU
Ag = 4063.03 [2201222.75] [0.00σ]
Teffp = 40362 [5466668] K [0.01σ]

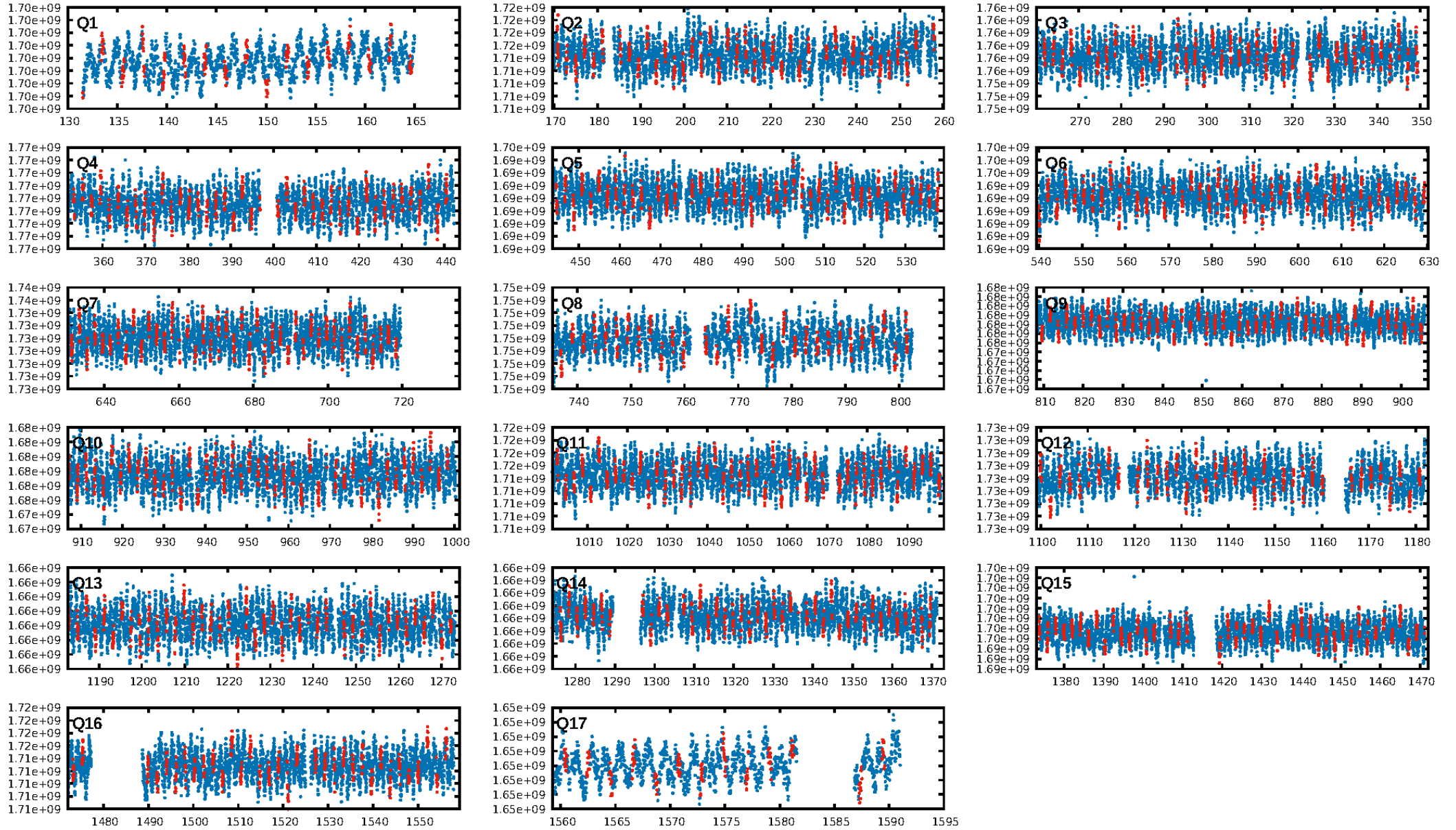
DV Diagnostic Results:

ShortPeriod-sig: 83.6% [1.39σ]
LongPeriod-sig: 100.0% [9.85σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 2.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [92/92]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 4.959 arcsec [3.65σ]
KicOffset-rm: 4.544 arcsec [3.44σ]
OotOffset-st: 3/4/4/3 [14]
KicOffset-st: 3/4/4/3 [14]
DiffImageQuality-fgm: 0.21 [3/14]
DiffImageOverlap-fno: 0.00 [0/17]

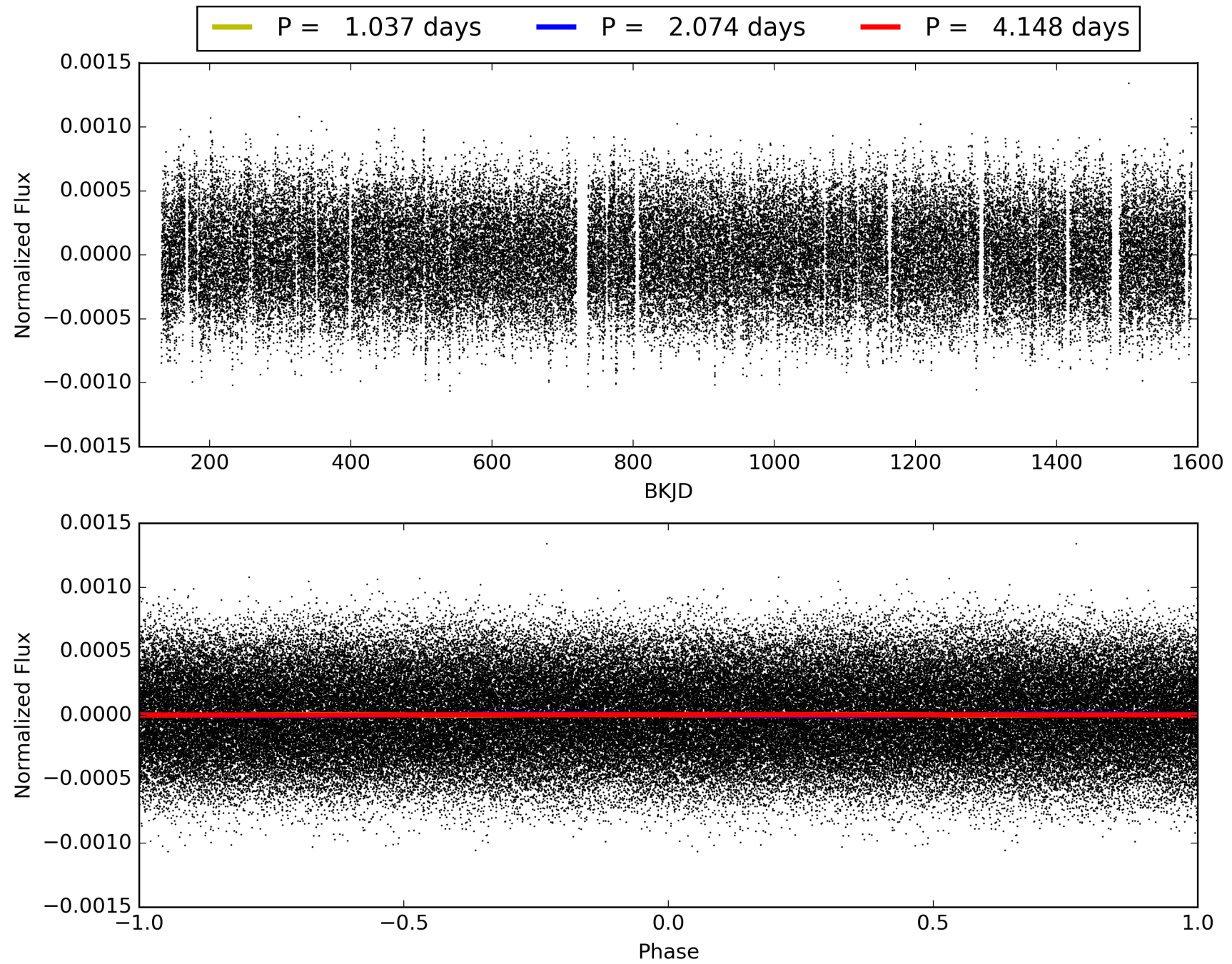
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:24:58 Z

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

TCE 011714150-03, PDC Light Curves

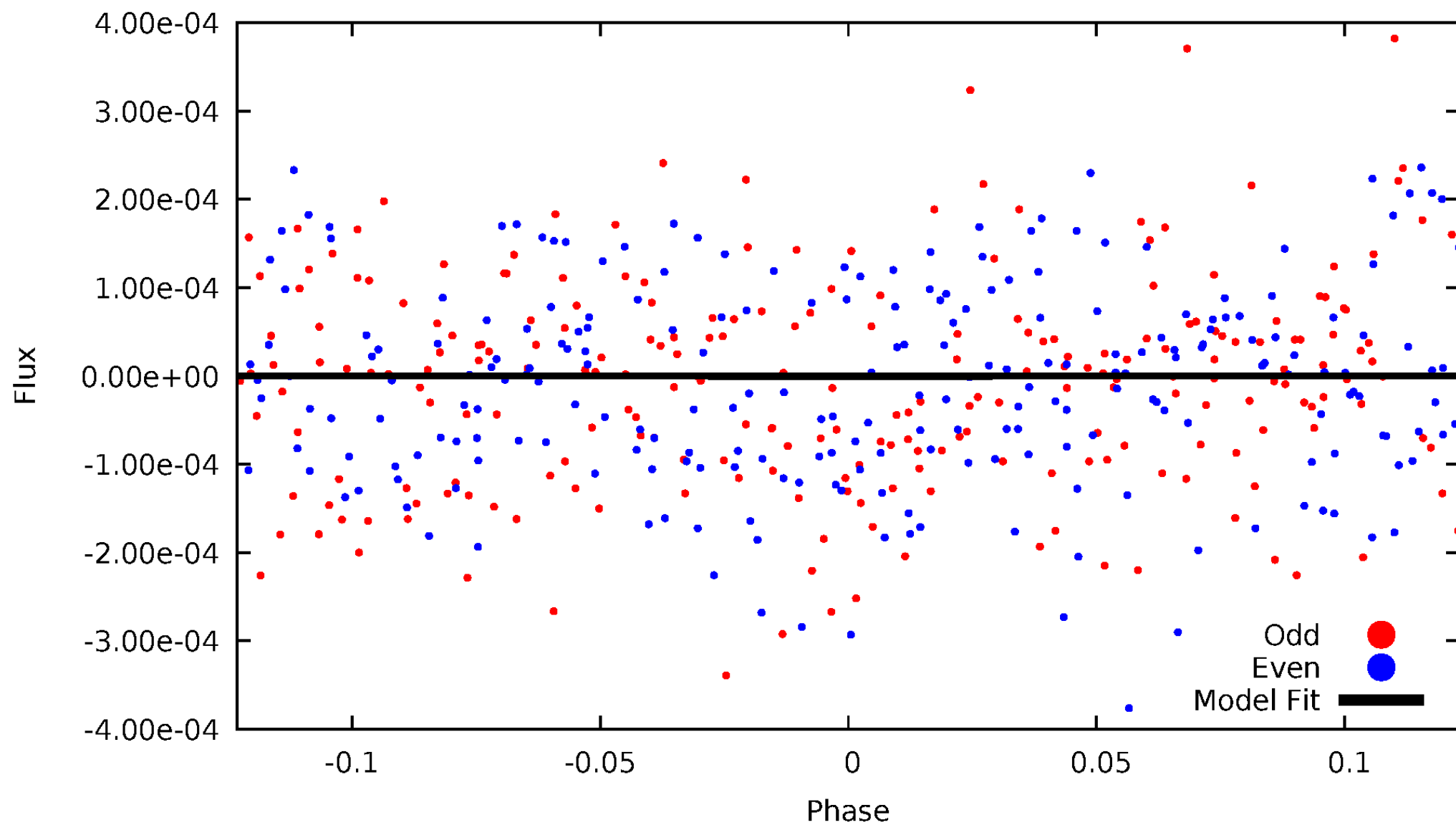


TCE 011714150-03



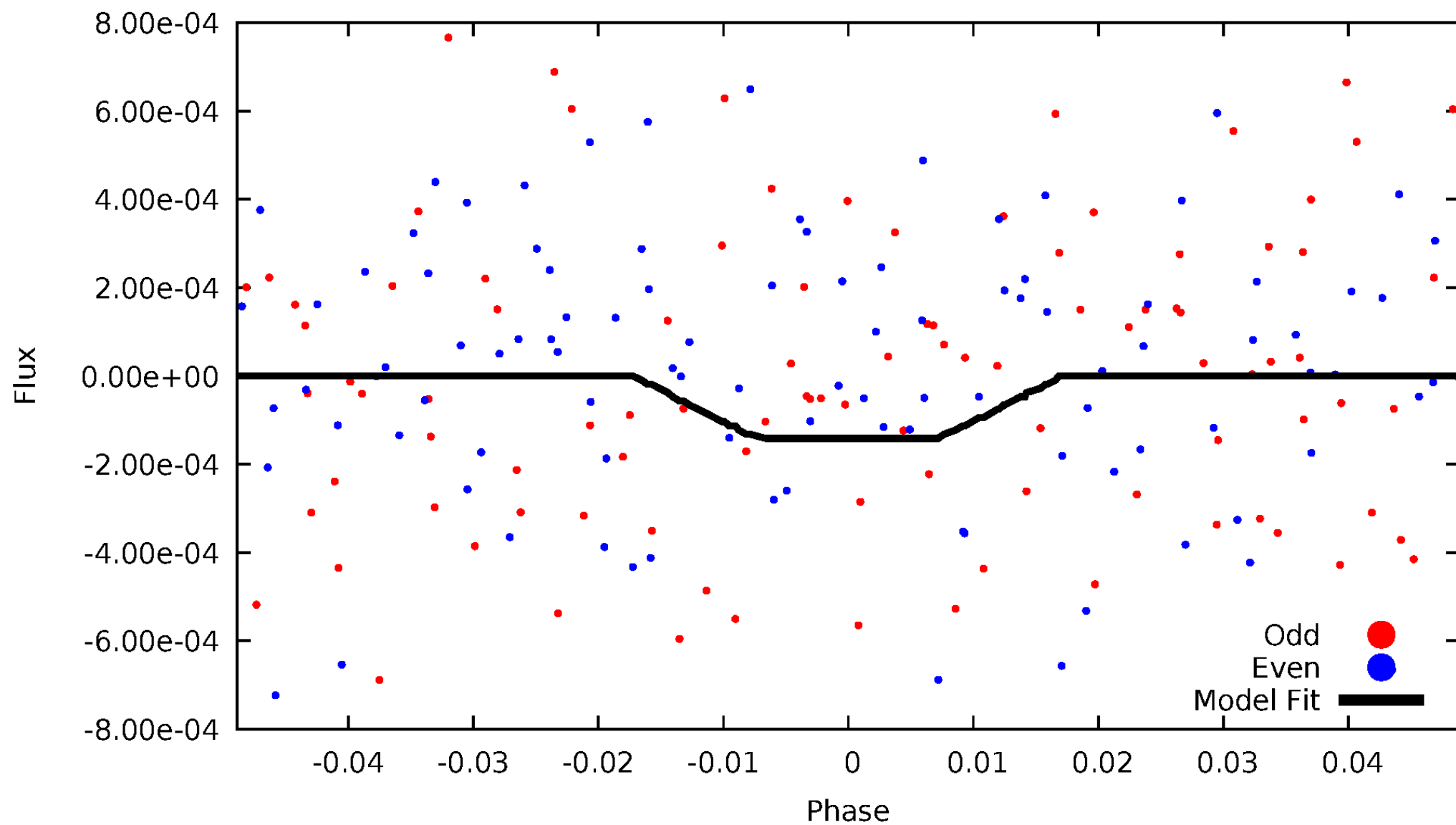
DV Odd/Even

TCE 011714150-03



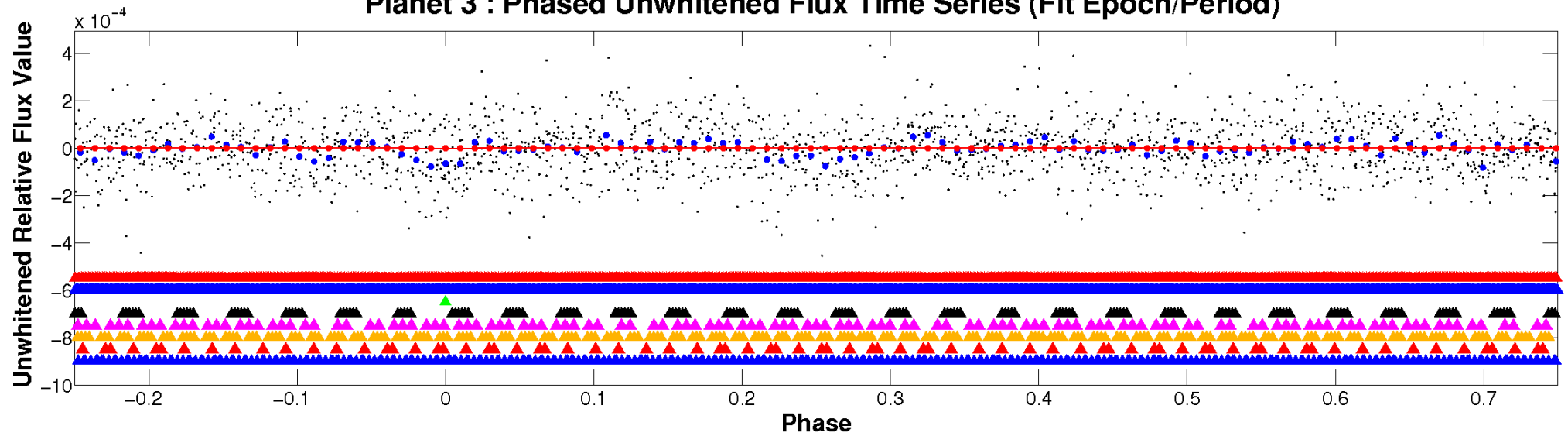
ALT Odd/Even

TCE 011714150-03

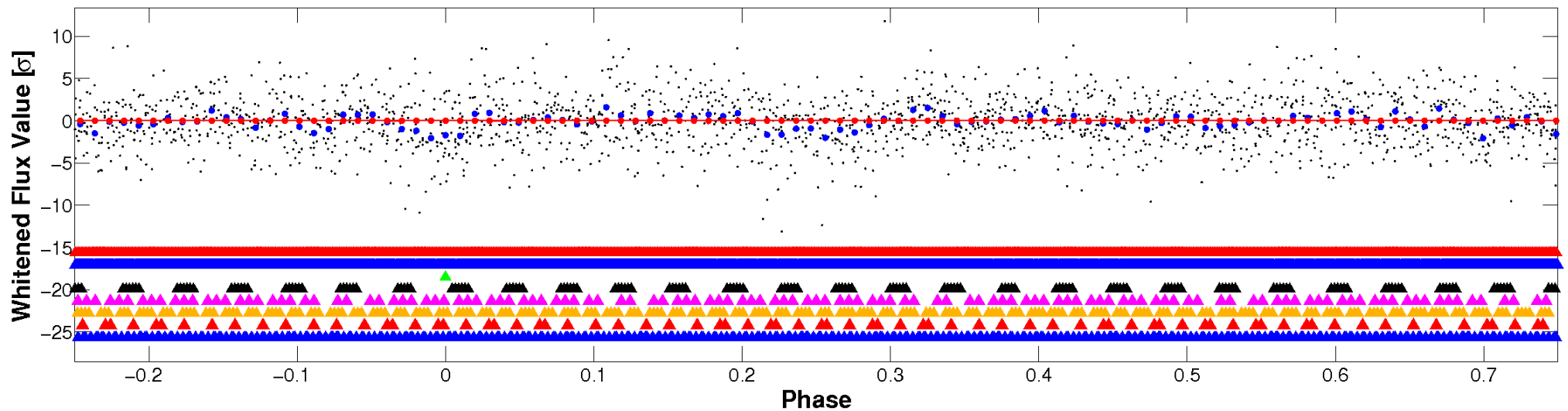


Non-Whitened Vs. Whitened Light Curve

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

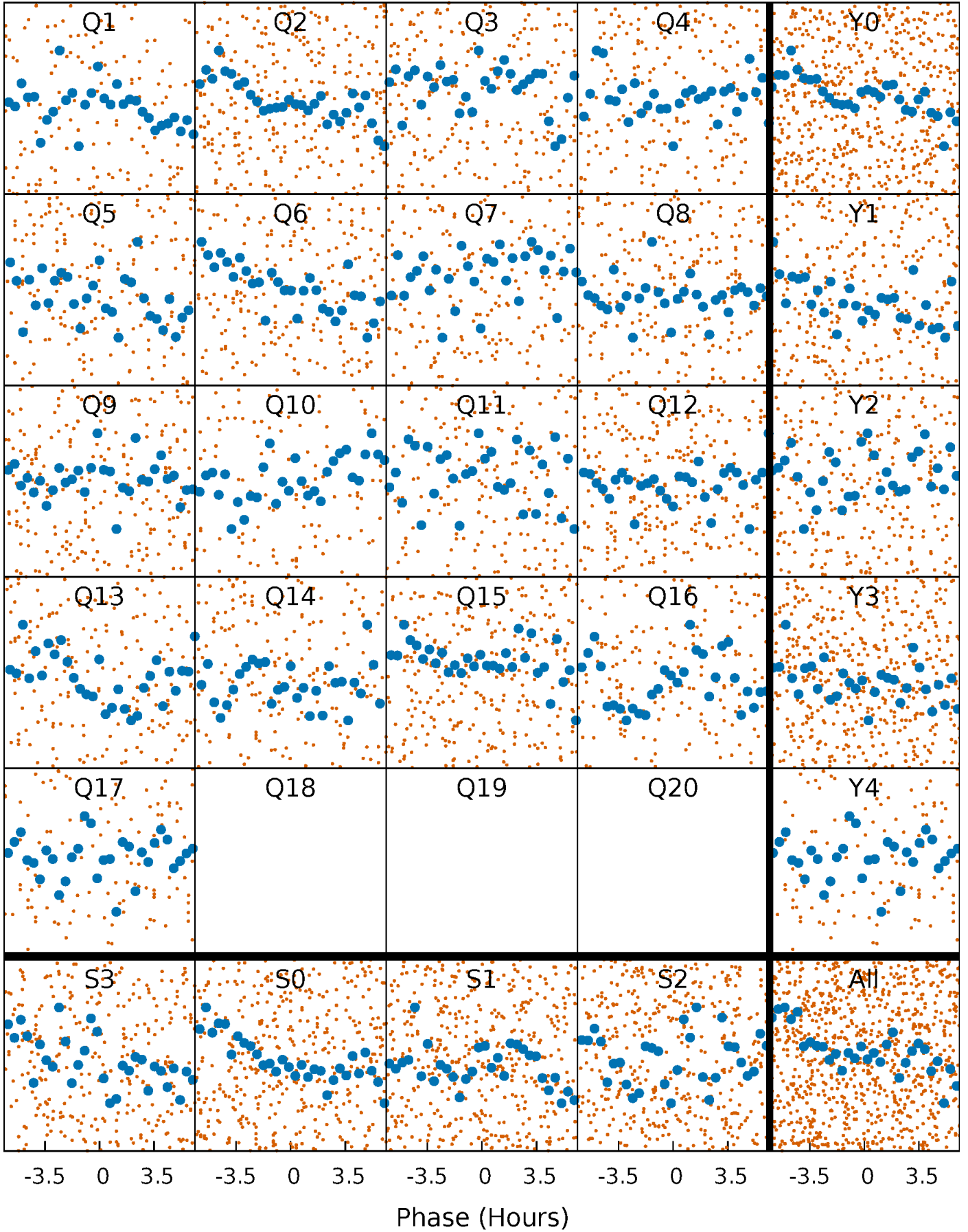


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



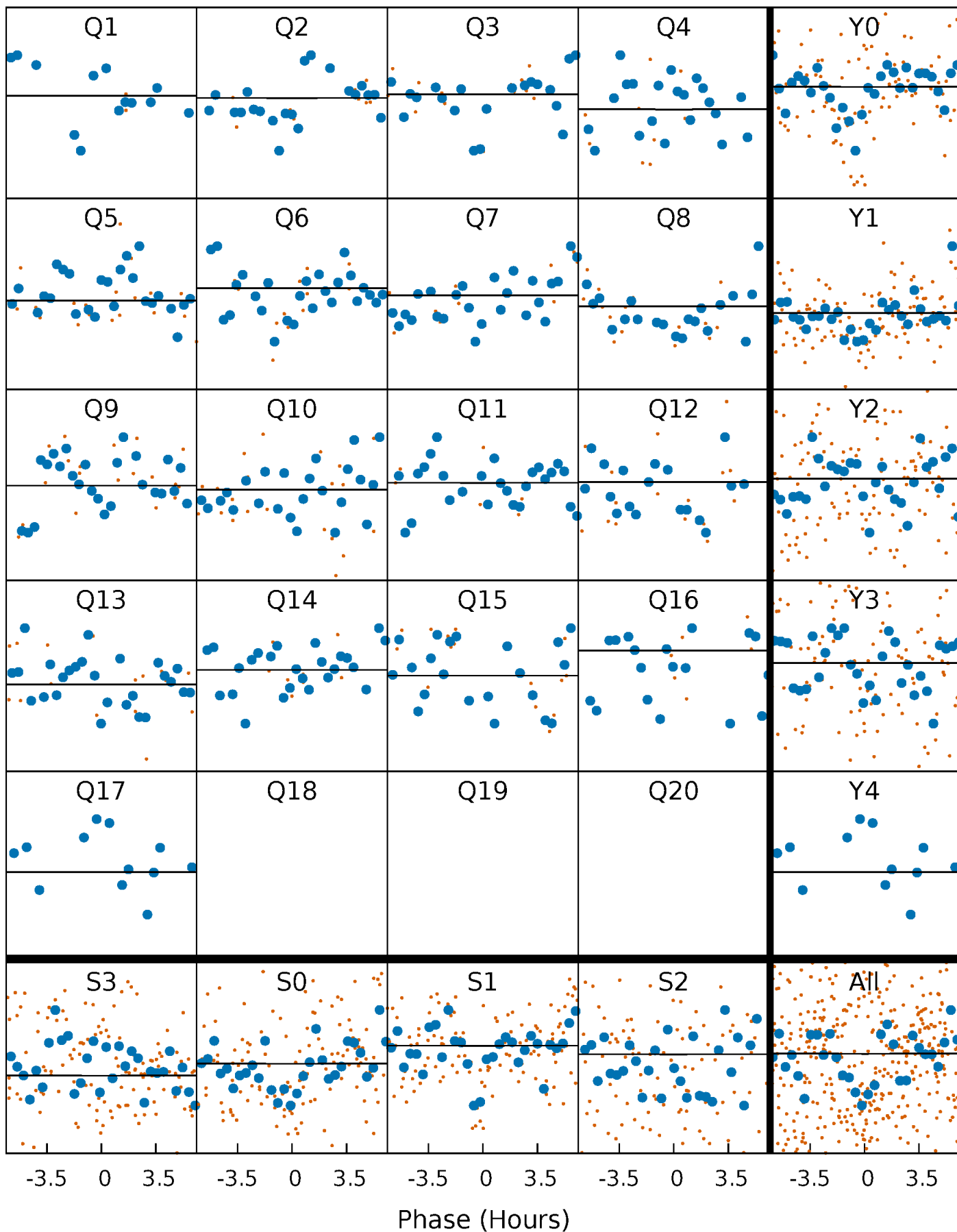
PDC Quarter-Phased Transit Curves

TCE 011714150-03 P= 2.074040 Days $T_0=133.479216$ (BKJD)



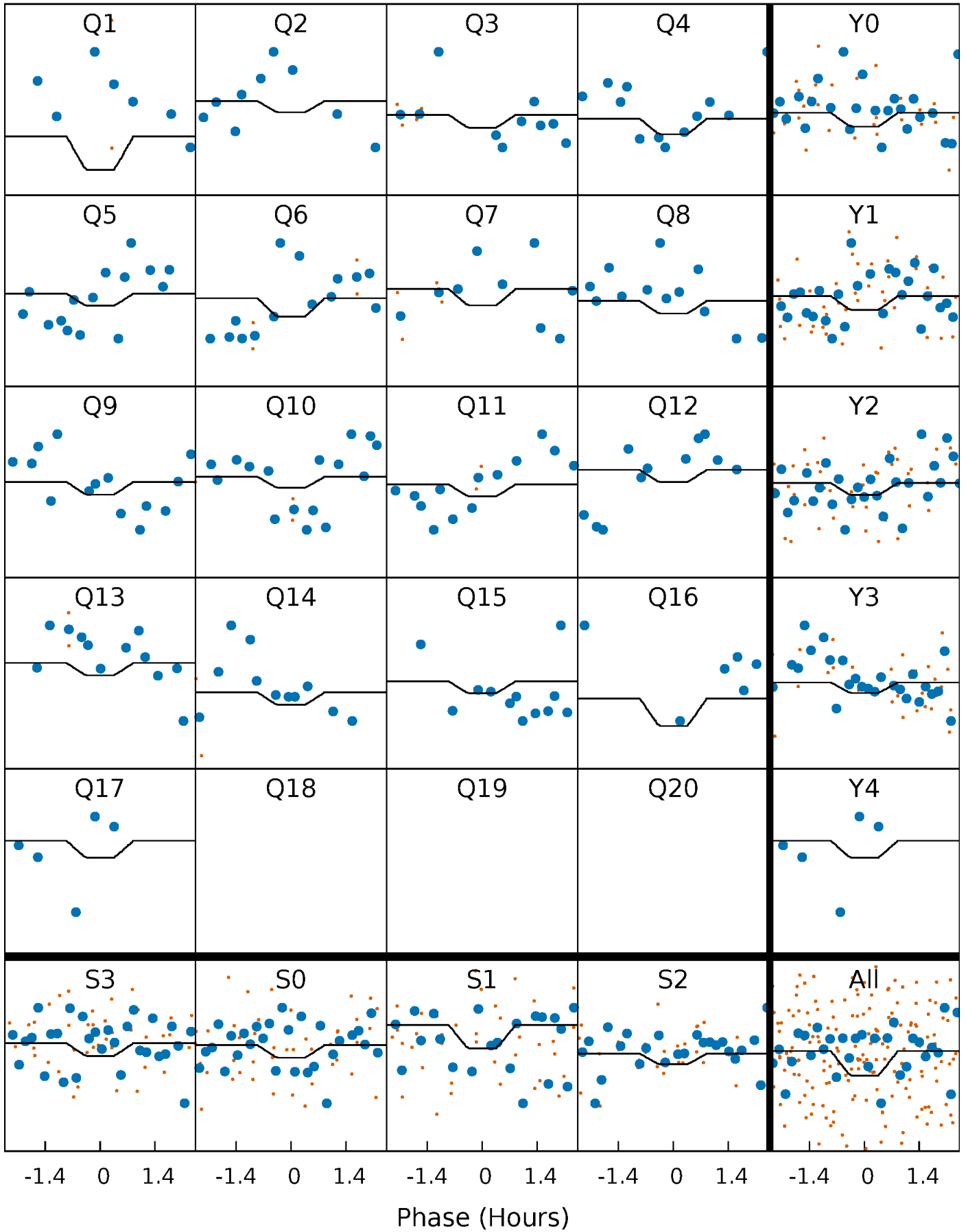
DV Quarter-Phased Transit Curves

TCE 011714150-03 P= 2.074040 Days $T_0=133.479216$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

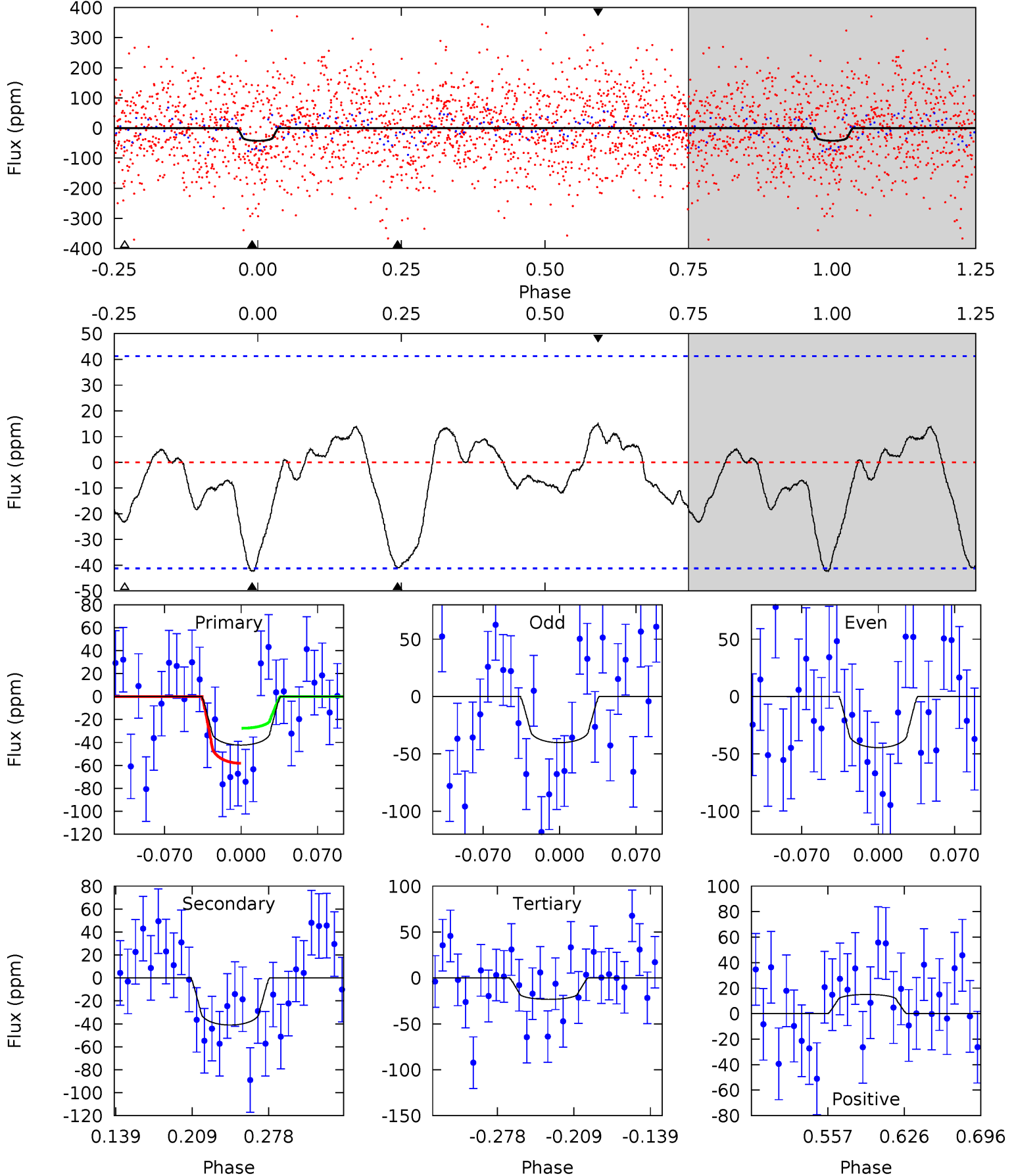
TCE 011714150-03 P= 2.074171 Days $T_0=133.532087$ (BKJD)



DV Model-Shift Uniqueness Test

011714150-03, P = 2.074040 Days, E = 131.405176 Days

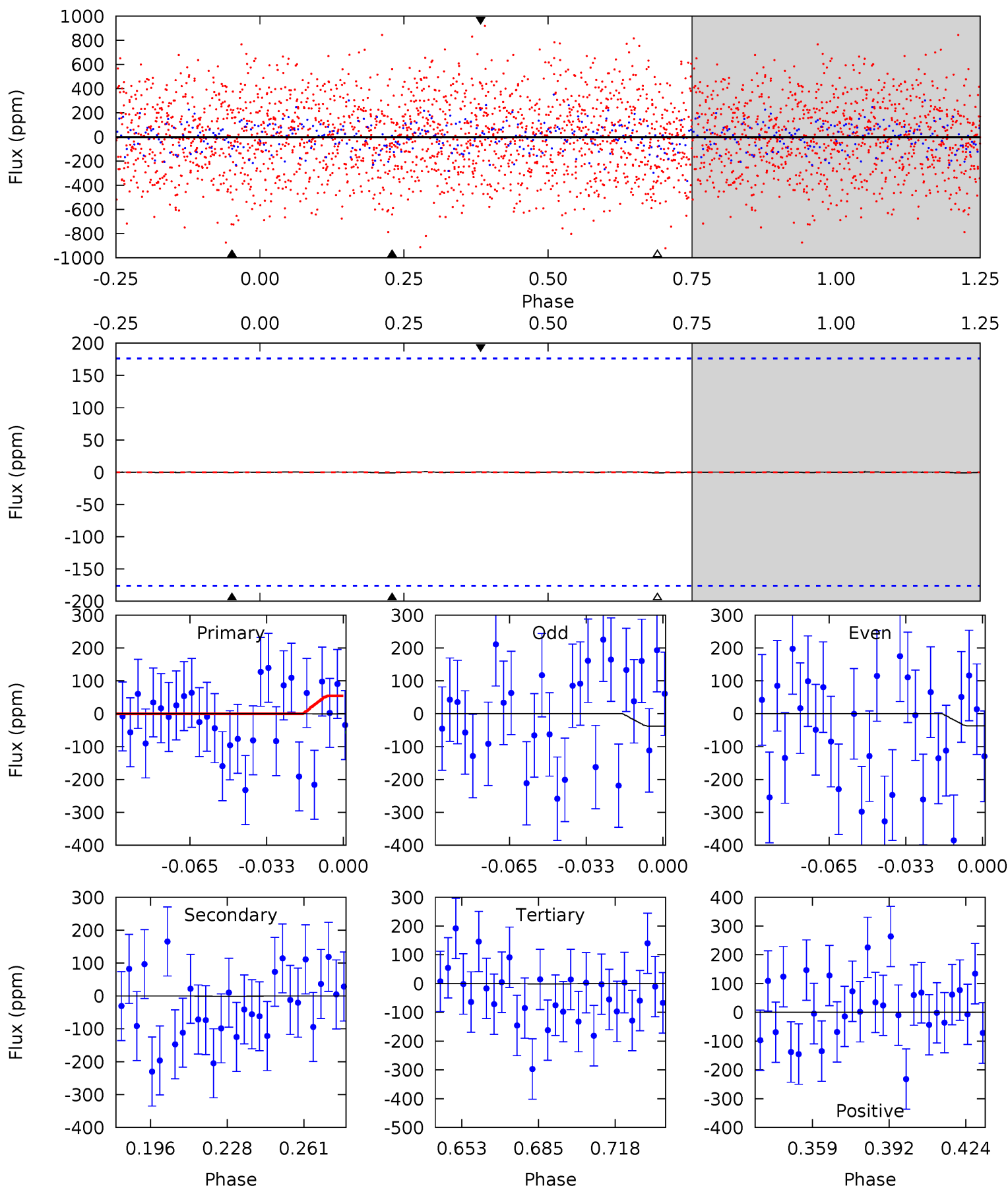
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.77	4.62	2.63	1.69	4.64	1.81	1.08	2.14	3.07	1.99	2.93	0.24	0.39	0.26	1.75



Alt Model-Shift Uniqueness Test

011714150-03, P = 2.074171 Days, E = 131.457916 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.02	0.03	0.03	0.02	4.79	2.14	0.01	-0.00	0.01	0.00	0.01	0.01	0.88	0.42	0.03



Stellar Parameters For KIC 011714150

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8493^{+235}_{-383}	$3.770^{+0.432}_{-0.135}$	$-0.180^{+0.300}_{-0.350}$	$3.061^{+0.785}_{-1.345}$	$2.017^{+0.345}_{-0.474}$	$0.099^{+0.376}_{-0.041}$
	+3%/-5%	+11%/-4%	+167%/-194%	+26%/-44%	+17%/-24%	+379%/-41%
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 011714150-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-41 ± 9	$25.73^{+29.37}_{-18.73}$	4437^{+363}_{-532}	-3590^{+7582}_{-355}	$0.057^{+0.697}_{-0.044}$
Alt.	-1 ± 37	$27.87^{+30.63}_{-20.12}$	4418^{+380}_{-492}	-3841^{+480}_{-340}	$0.002^{+0.086}_{-0.070}$

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

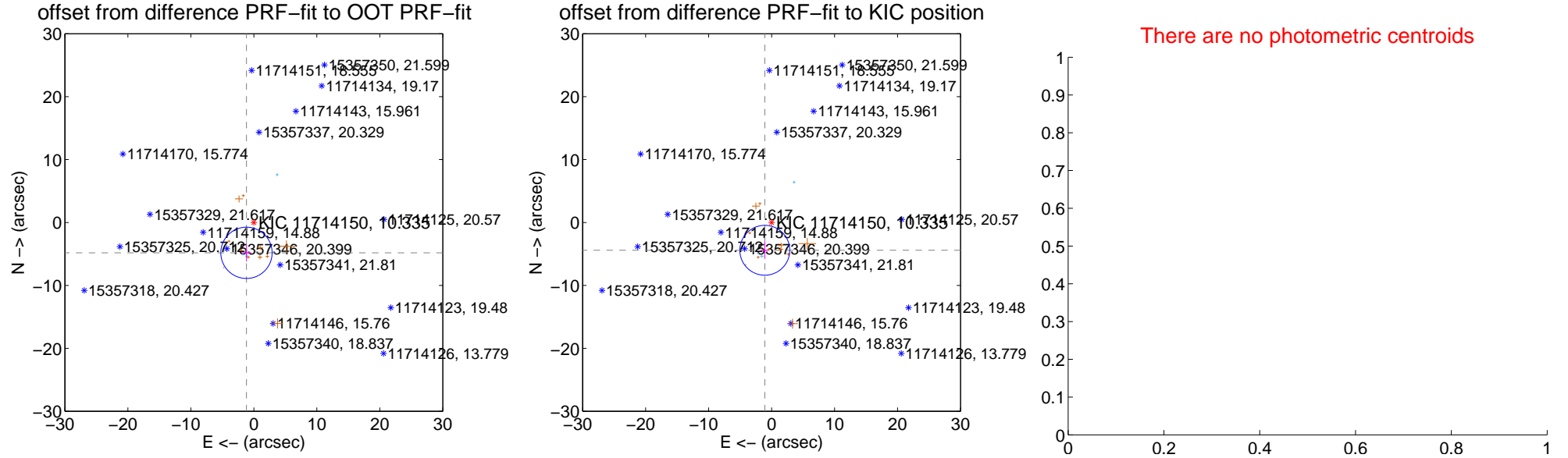
DV Centroid Data

Supplemental centroid analysis for 011714150-03. **Kepler magnitude: 10.34.** Transit SNR 0.06

There are 3 quarters with good PRF difference image offsets

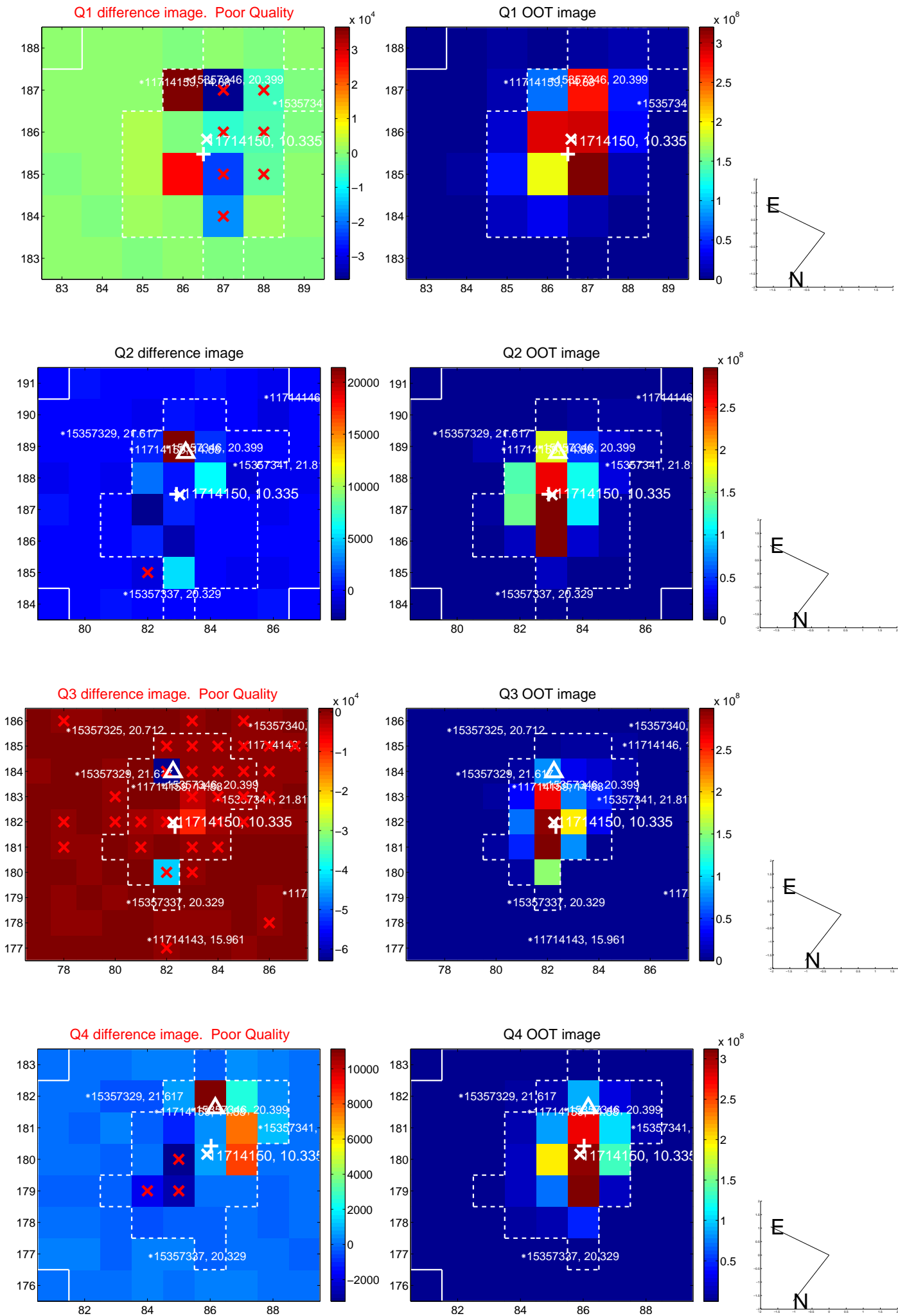
The direct PRF centroid is offset from the target star catalog position by about 1.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.959 \pm 1.358	3.65	1.172 \pm 0.806	-4.818 \pm 1.381
PRF-fit source offset from KIC position	4.544 \pm 1.321	3.44	1.078 \pm 0.708	-4.414 \pm 1.381
photometric centroid source offset	—	—	—	—

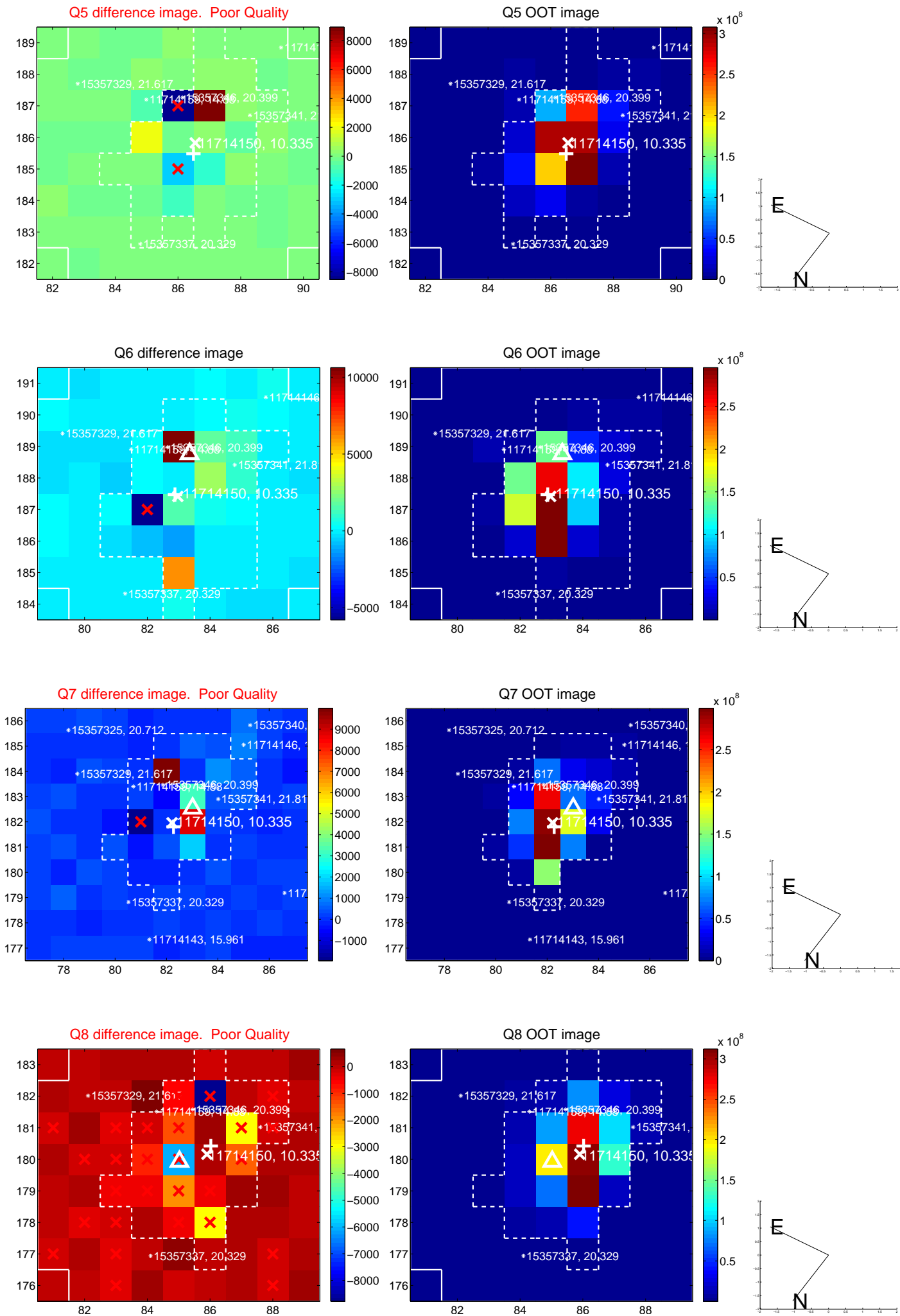


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

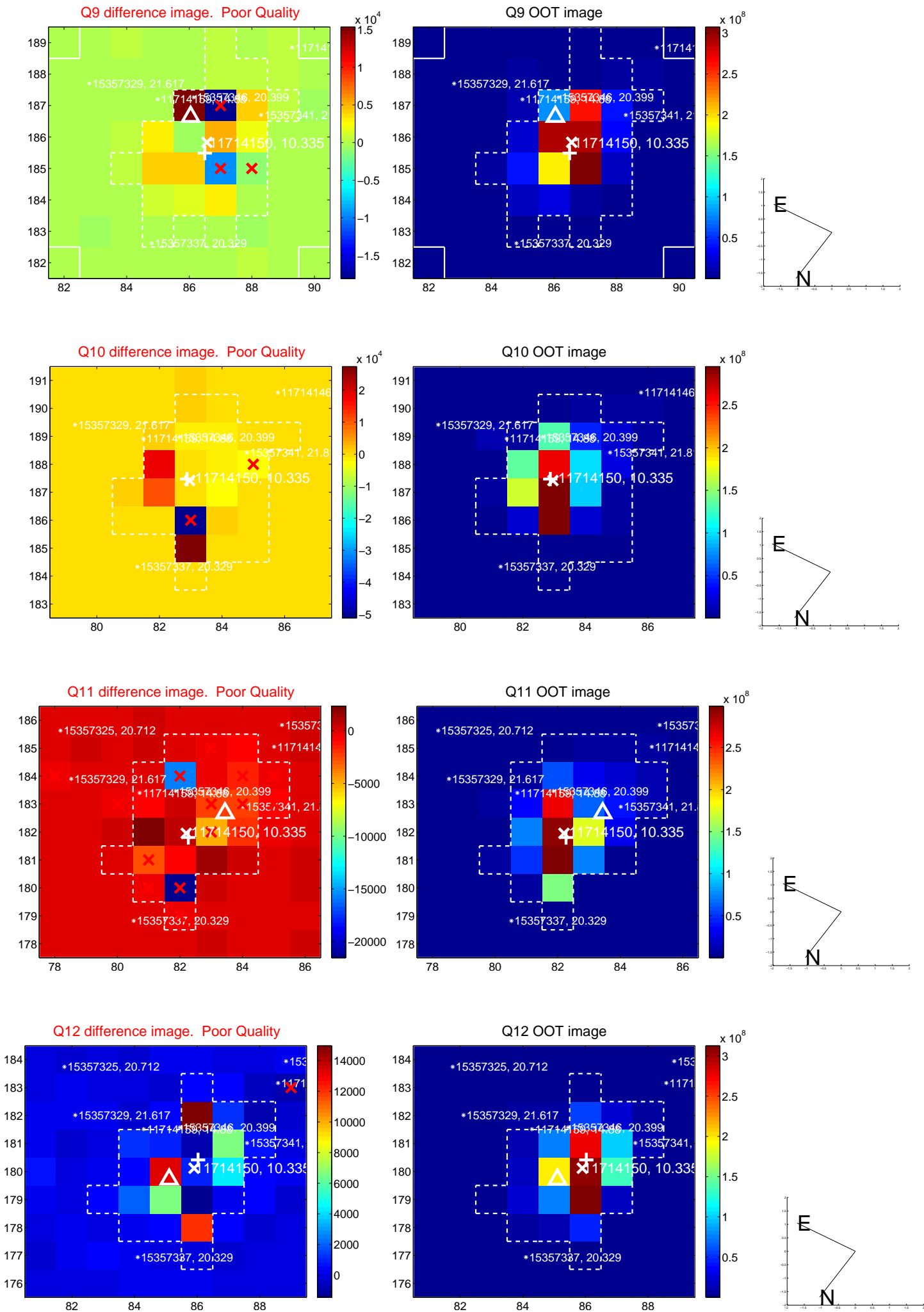
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



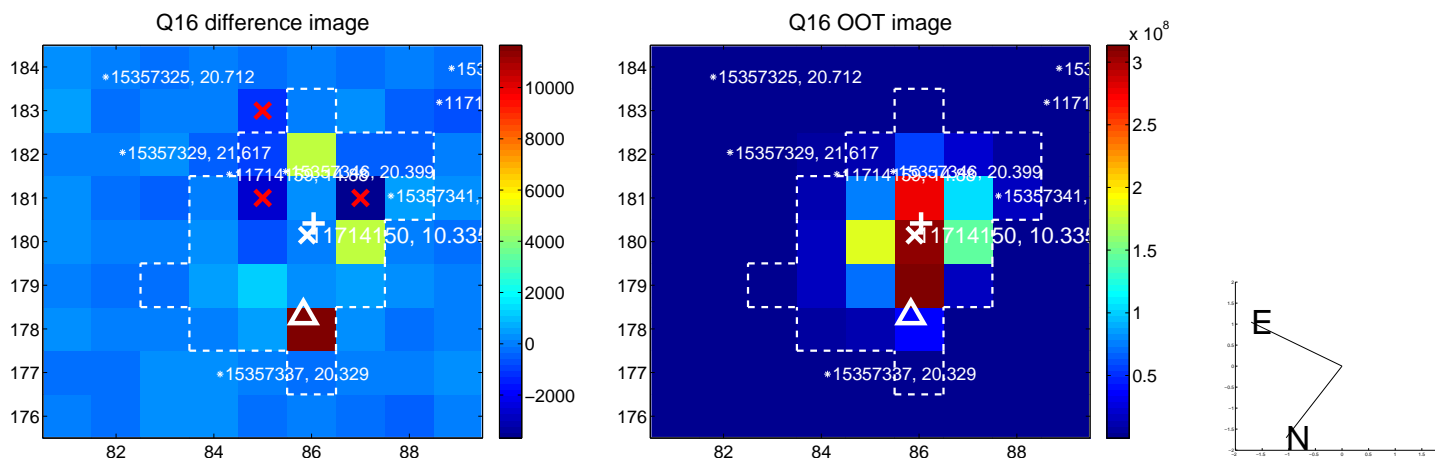
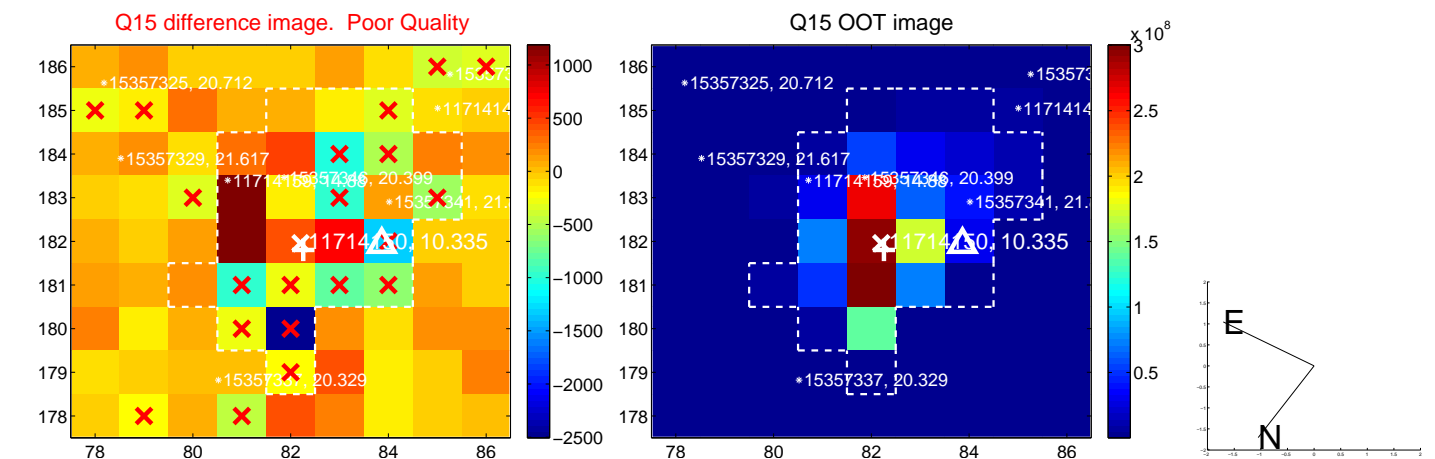
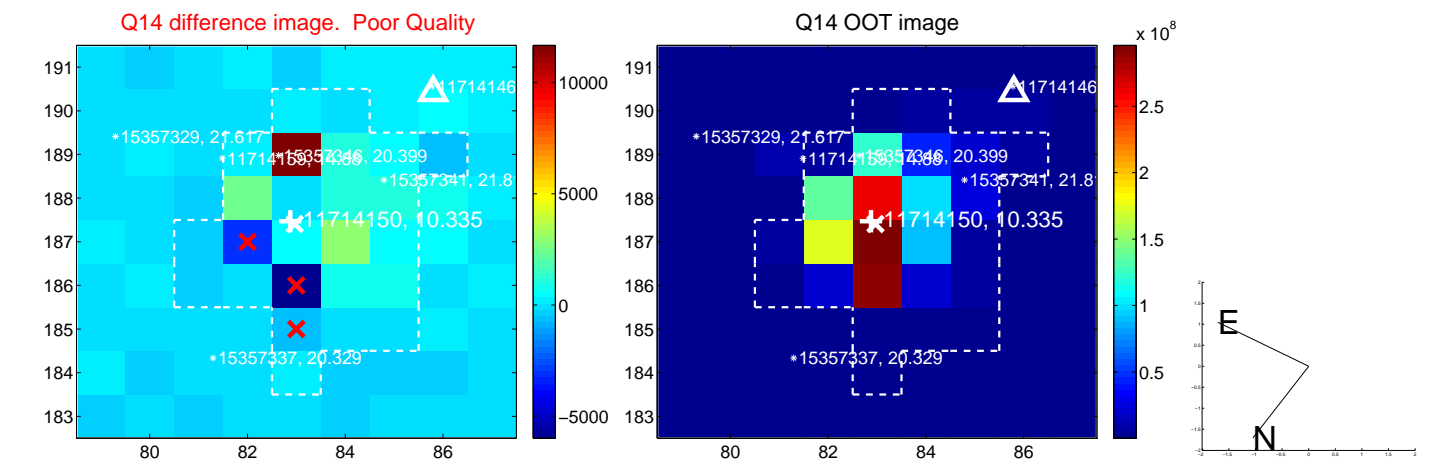
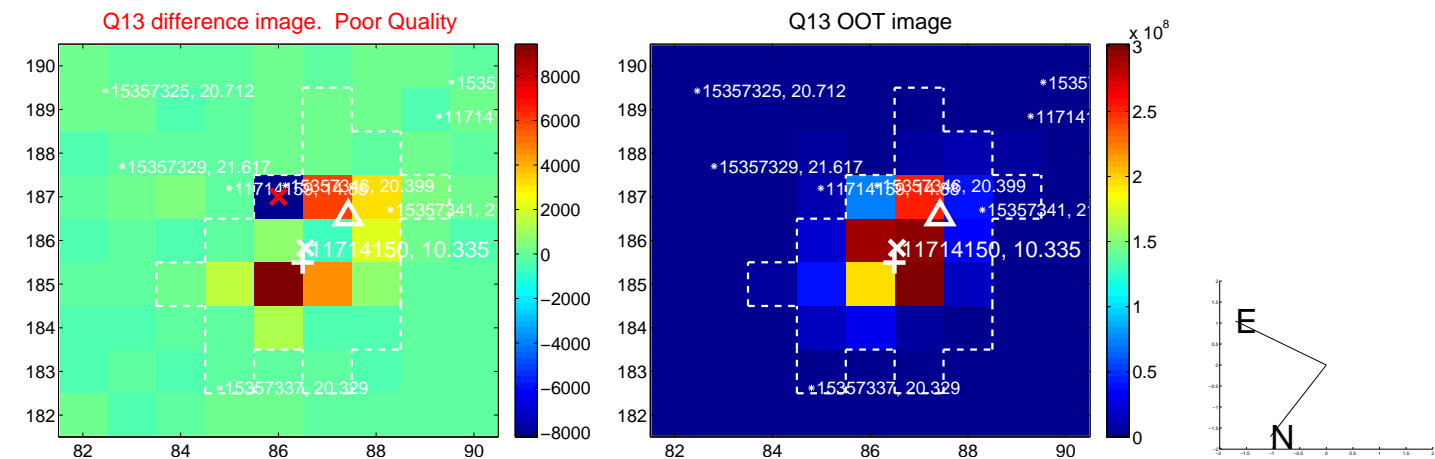
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



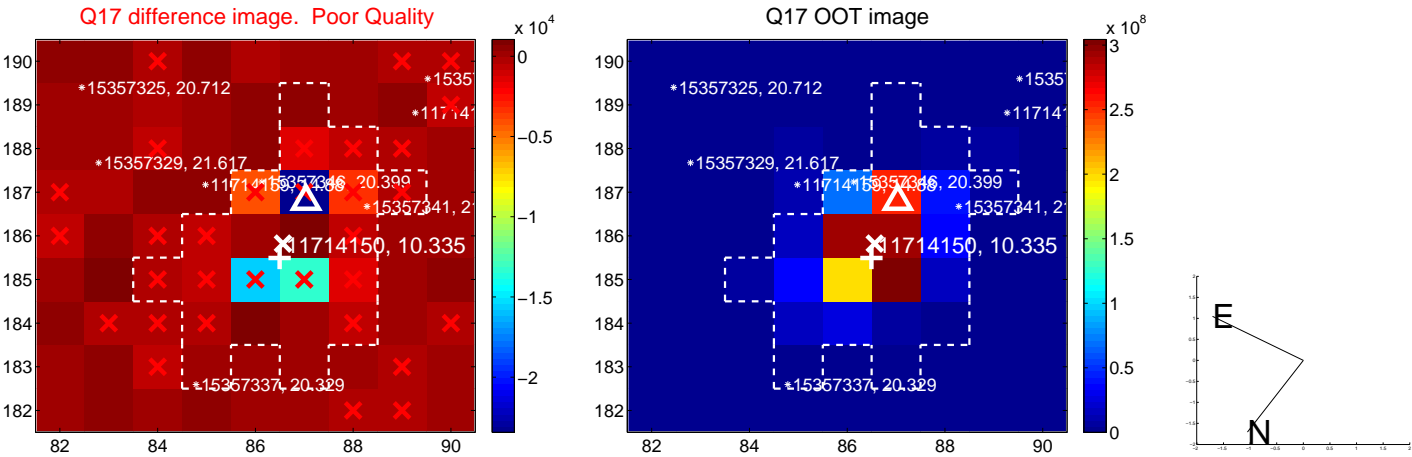
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

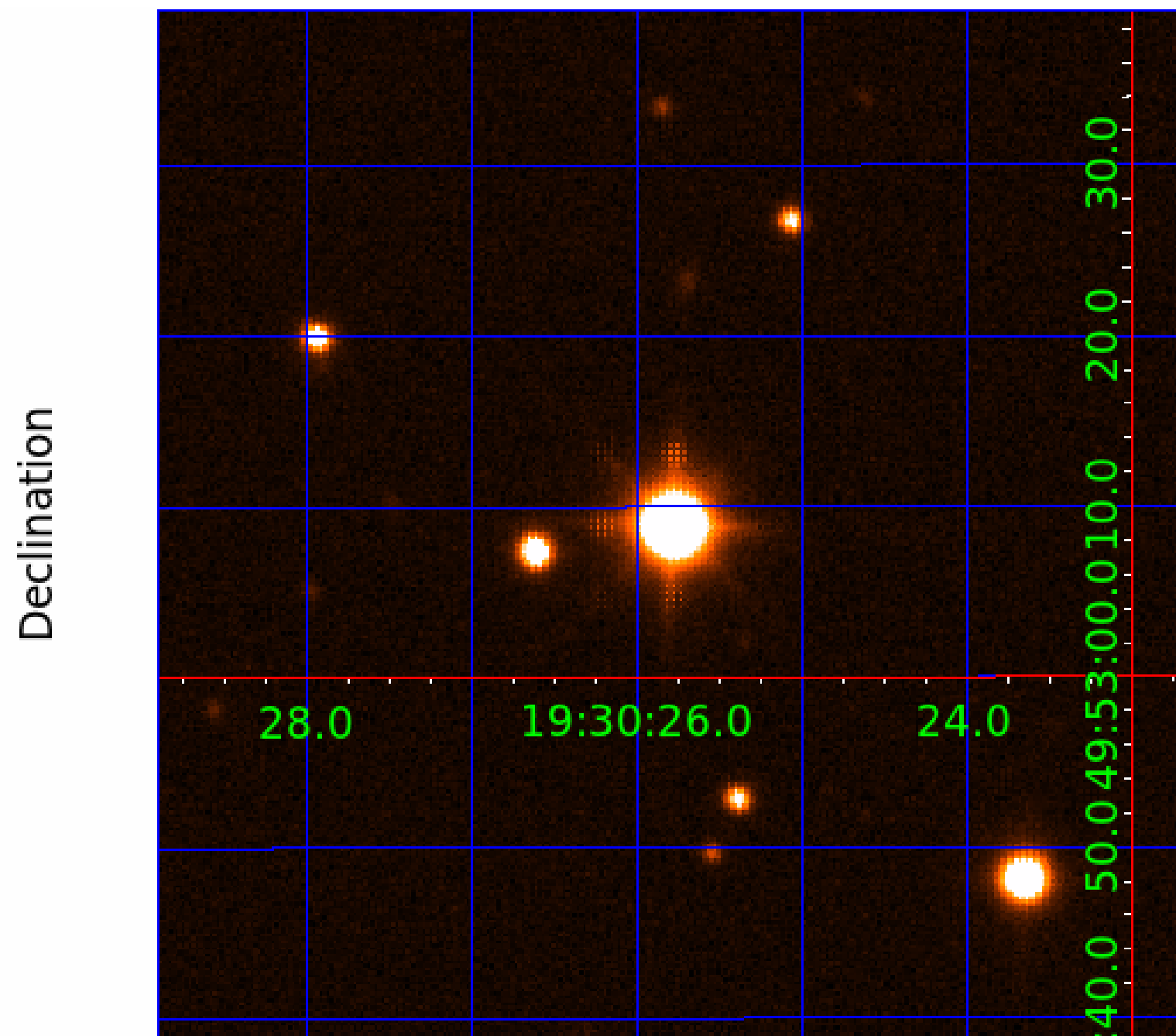


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image



KIC 011714150

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})
011714150-01	OBS	No	1.694524	131.568784	18.0	5.780	10.9	9.1	3.06	8493	1.43	35398.43
011714150-02	OBS	No	0.588549	131.863166	17.4	4.290	9.8	12.7	3.06	8493	1.49	144989.99
011714150-03	OBS	No	2.074040	133.479216	0.2	3.064	17.8	0.1	3.06	8493	0.15	27036.99
011714150-04	OBS	No	9.140972	135.124696	78.5	1.350	12.1	3.2	3.06	8493	2.85	3741.61
011714150-05	OBS	No	11.605539	132.026703	180.5	1.517	14.6	13.3	3.06	8493	4.23	2721.62
011714150-06	OBS	No	5.955380	134.847991	53.9	6.501	13.7	7.6	3.06	8493	2.52	6624.73
011714150-07	OBS	No	19.202625	140.092455	233.9	1.279	12.4	14.3	3.06	8493	4.77	1390.70
011714150-08	OBS	No	3.983876	135.127734	52.5	3.500	9.6	-1.0	3.06	8493	2.25	11323.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011714150-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
011714150-02	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
011714150-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
011714150-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST
011714150-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

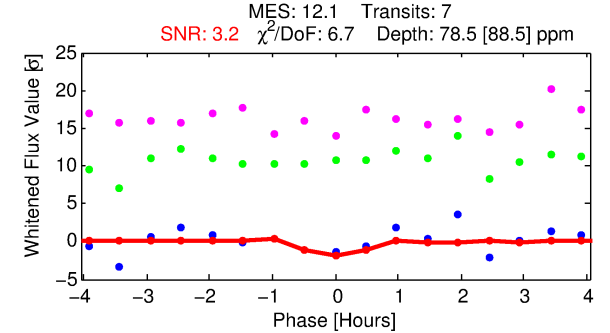
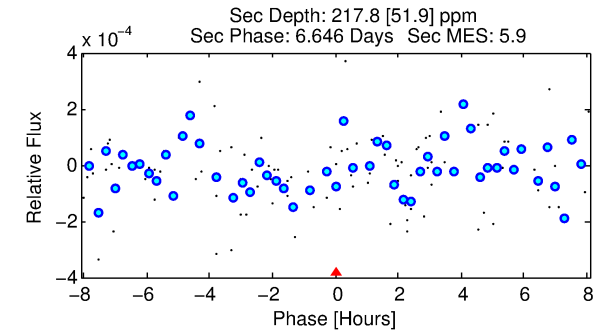
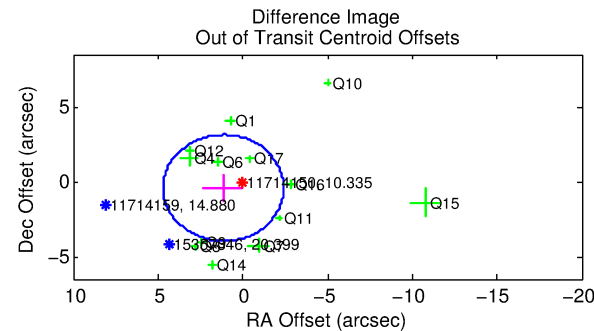
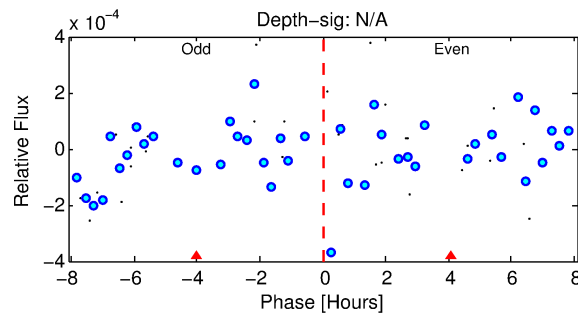
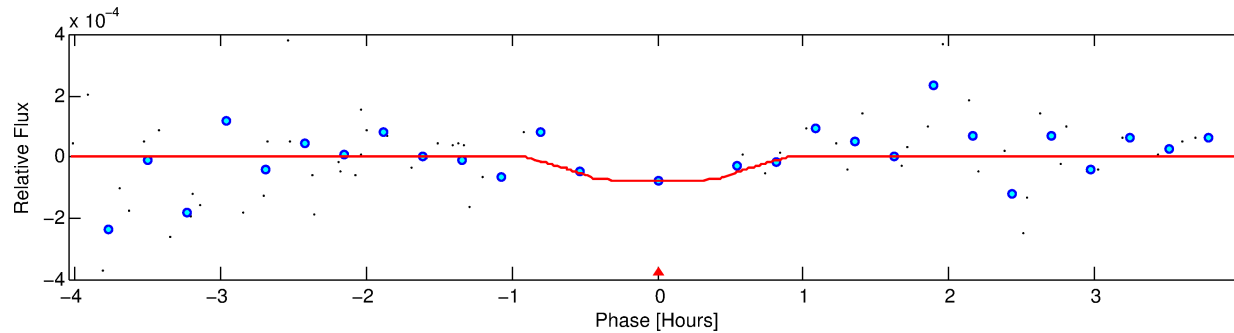
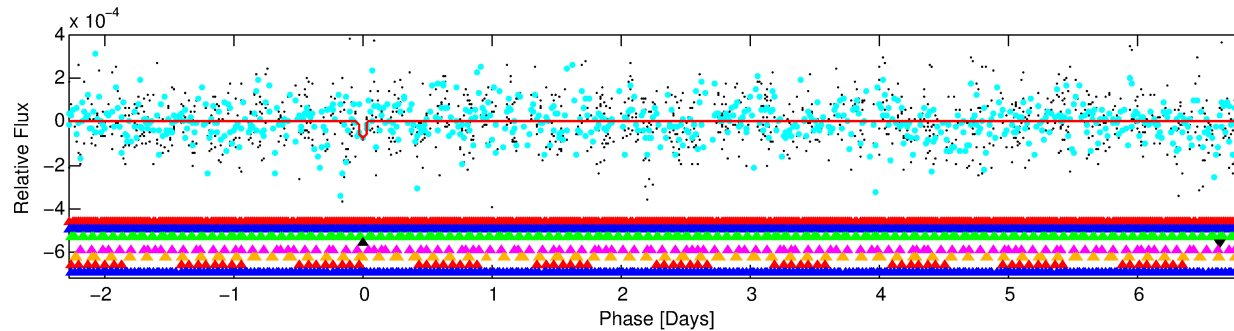
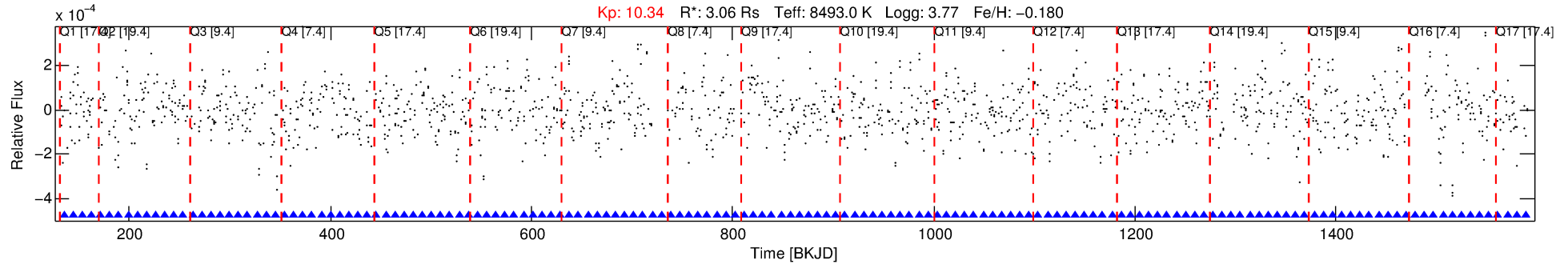
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011714150-04

No Significant Match Found

DV One-Page Summary

KIC: 11714150 Candidate: 4 of 8 Period: 9.141 d



DV Fit Results:

Period = 9.14097 [0.00036] d
Epoch = 135.1247 [0.0364] BKJD
Rp/R* = 0.0085 [0.0439]
a/R* = 42.80 [1316.42]
b = 0.58 [36.07]
Seff = 3741.60 [2795.23]
Teq = 1994 [372] K
Rp = 2.85 [14.73] Re
a = 0.1080 [0.0478] AU
Ag = 171.63 [1769.56] [0.10σ]
Teffp = 11160 [28699] K [0.32σ]

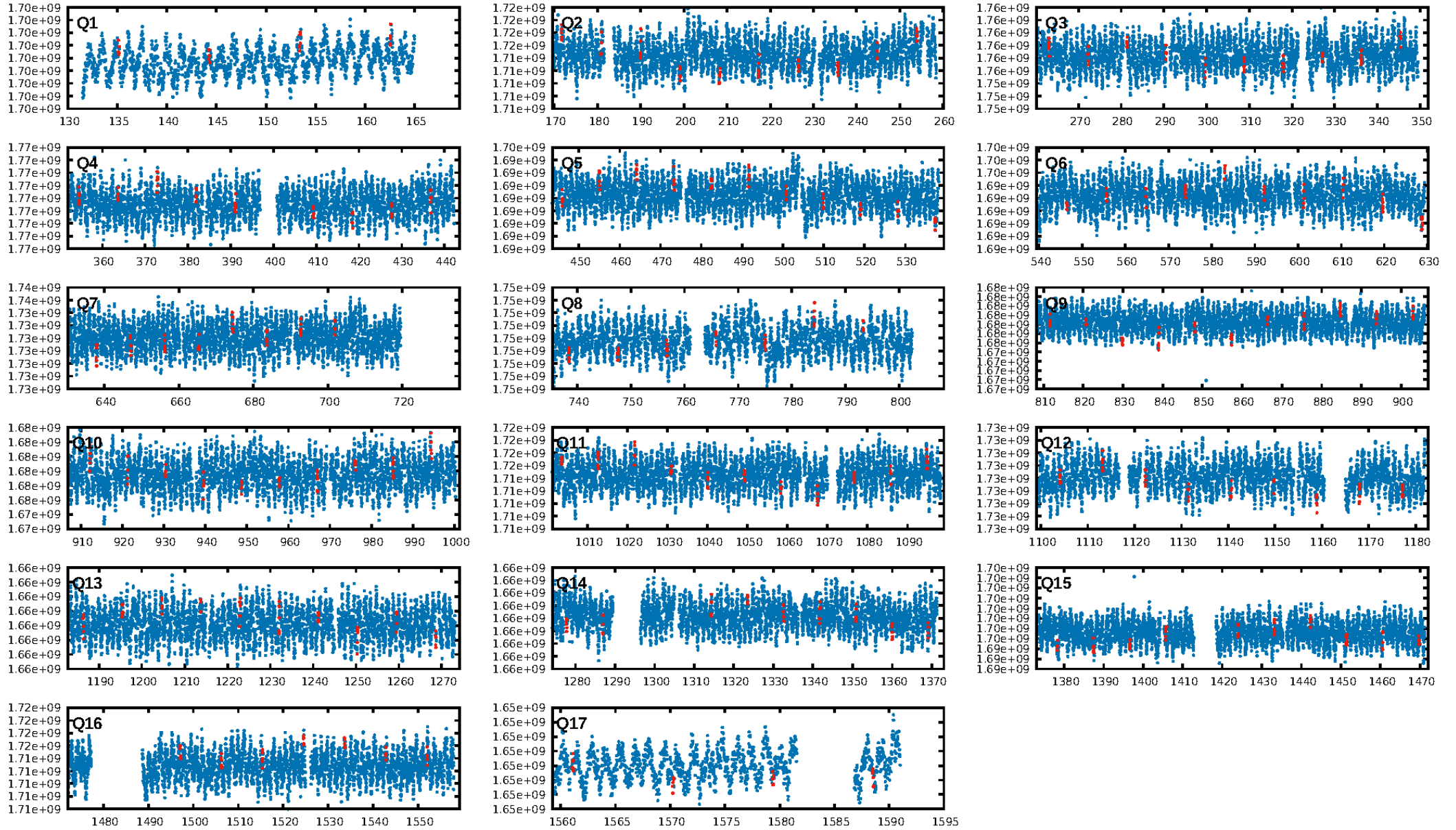
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [11.52σ]
LongPeriod-sig: 100.0% [29.13σ]
ModelChiSquare2-sig: 84.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 0.4044
Centroid-sig: 96.6%
Centroid-so: 0.249 arcsec [0.54σ]
OotOffset-rm: 1.222 arcsec [1.03σ]
KicOffset-rm: 0.964 arcsec [0.80σ]
OotOffset-st: 3/3/4/3 [13]
KicOffset-st: 3/3/4/3 [13]
DiffImageQuality-fgm: 0.23 [3/13]
DiffImageOverlap-fno: 0.00 [0/17]

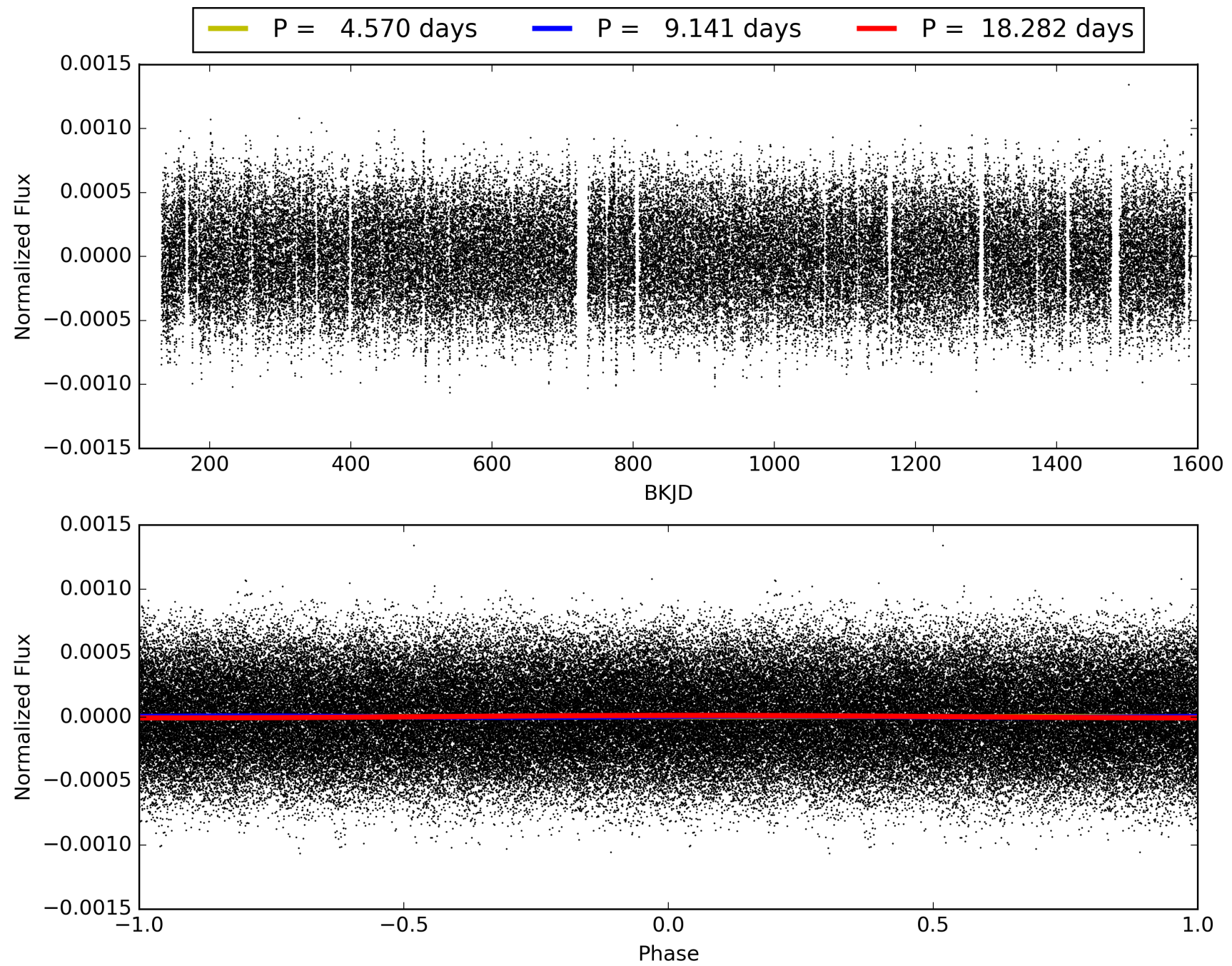
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:25:01 Z

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

TCE 011714150-04, PDC Light Curves

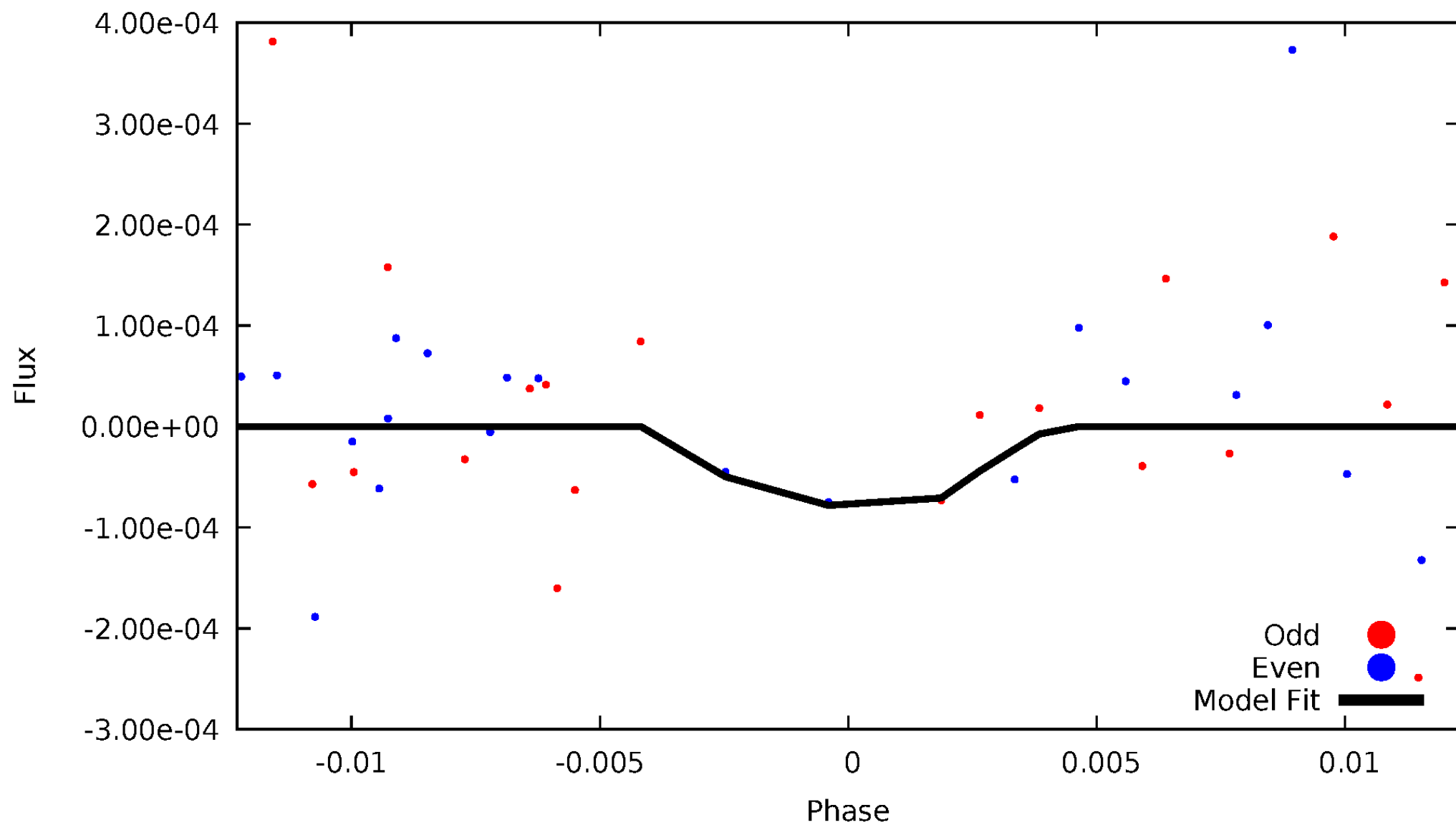


TCE 011714150-04



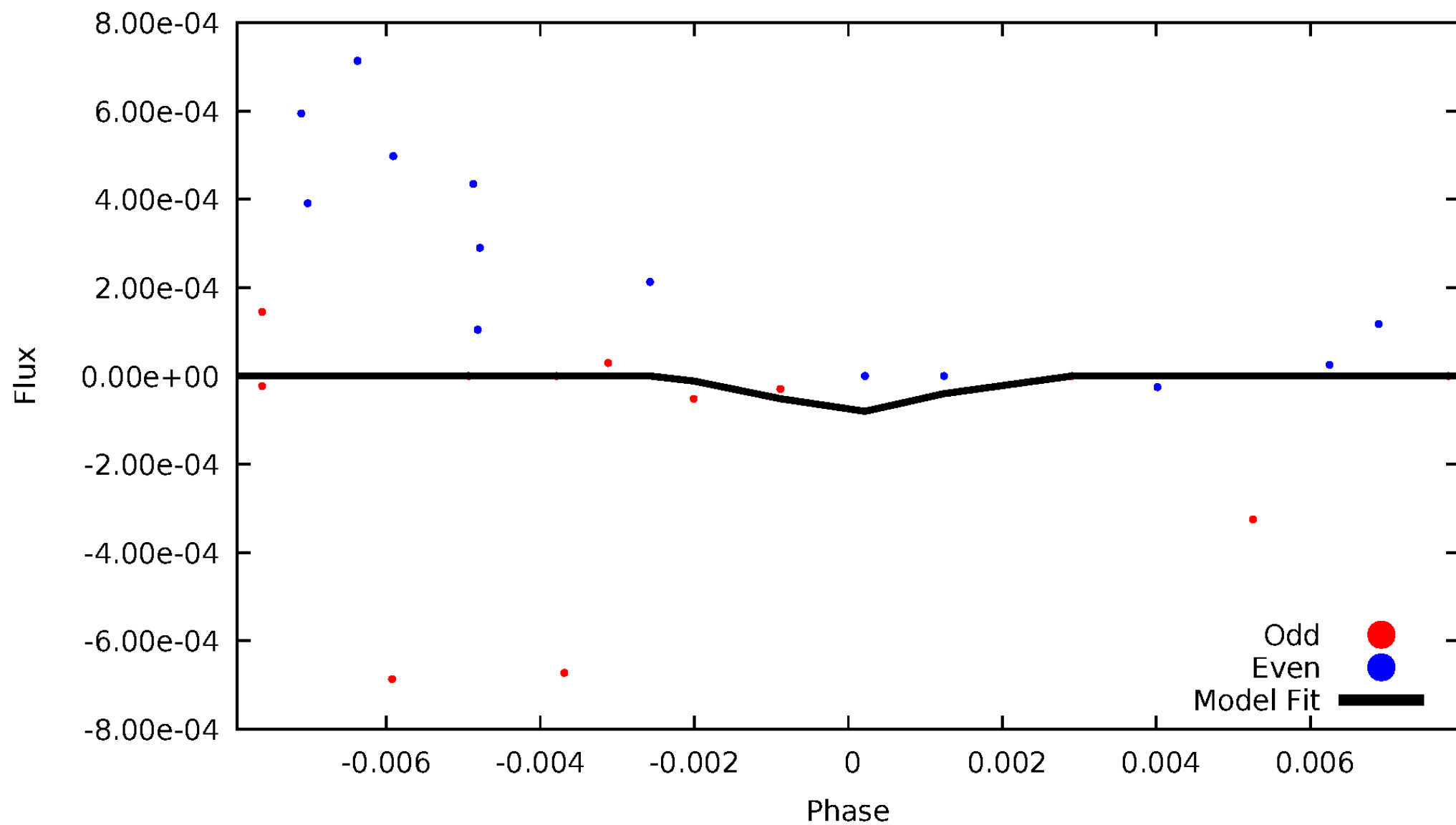
DV Odd/Even

TCE 011714150-04



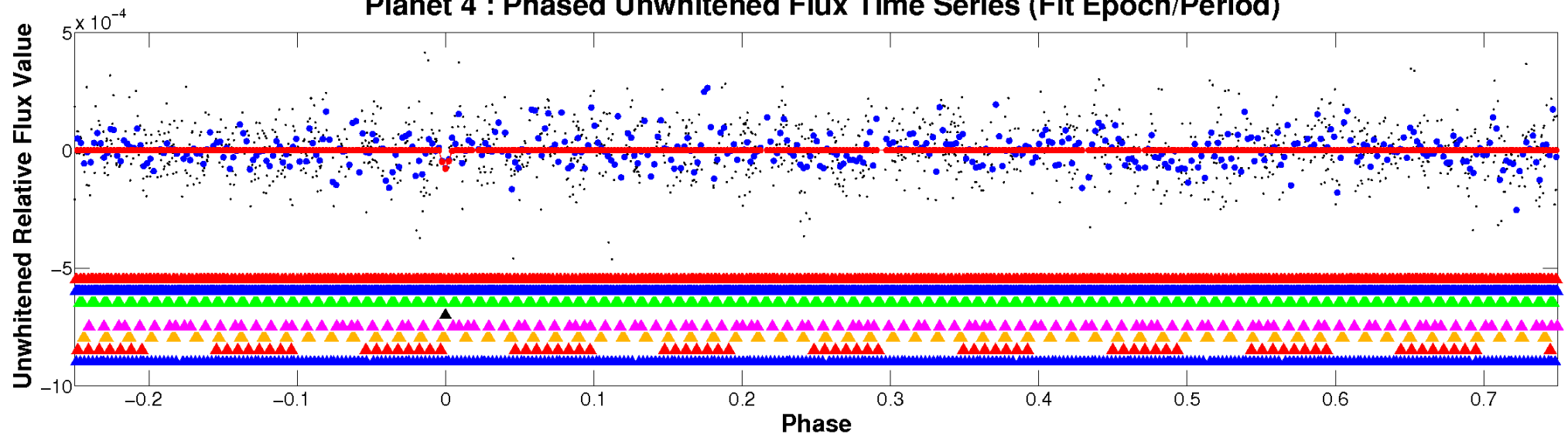
ALT Odd/Even

TCE 011714150-04

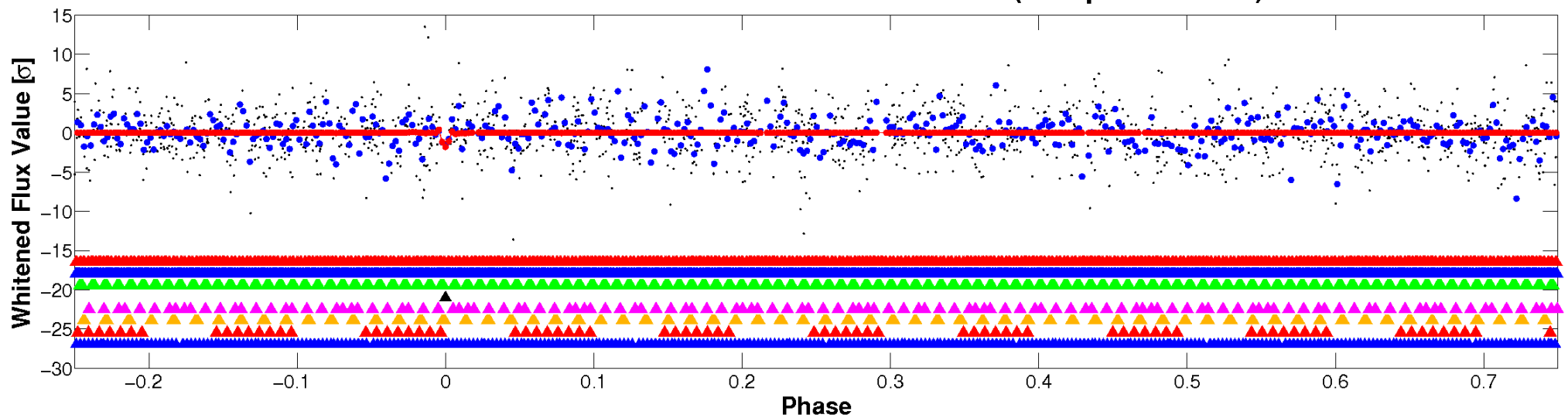


Non-Whitened Vs. Whitened Light Curve

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

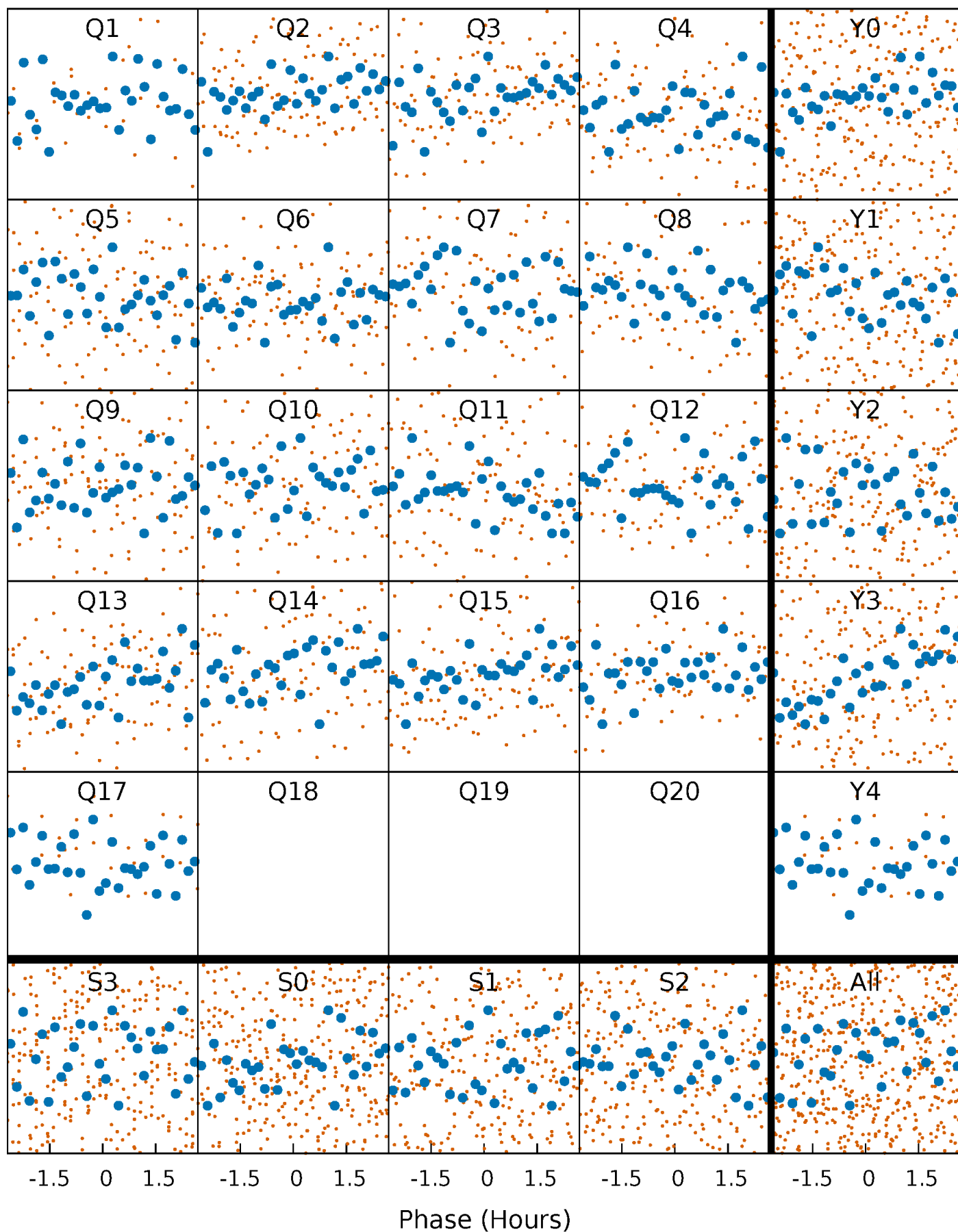


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



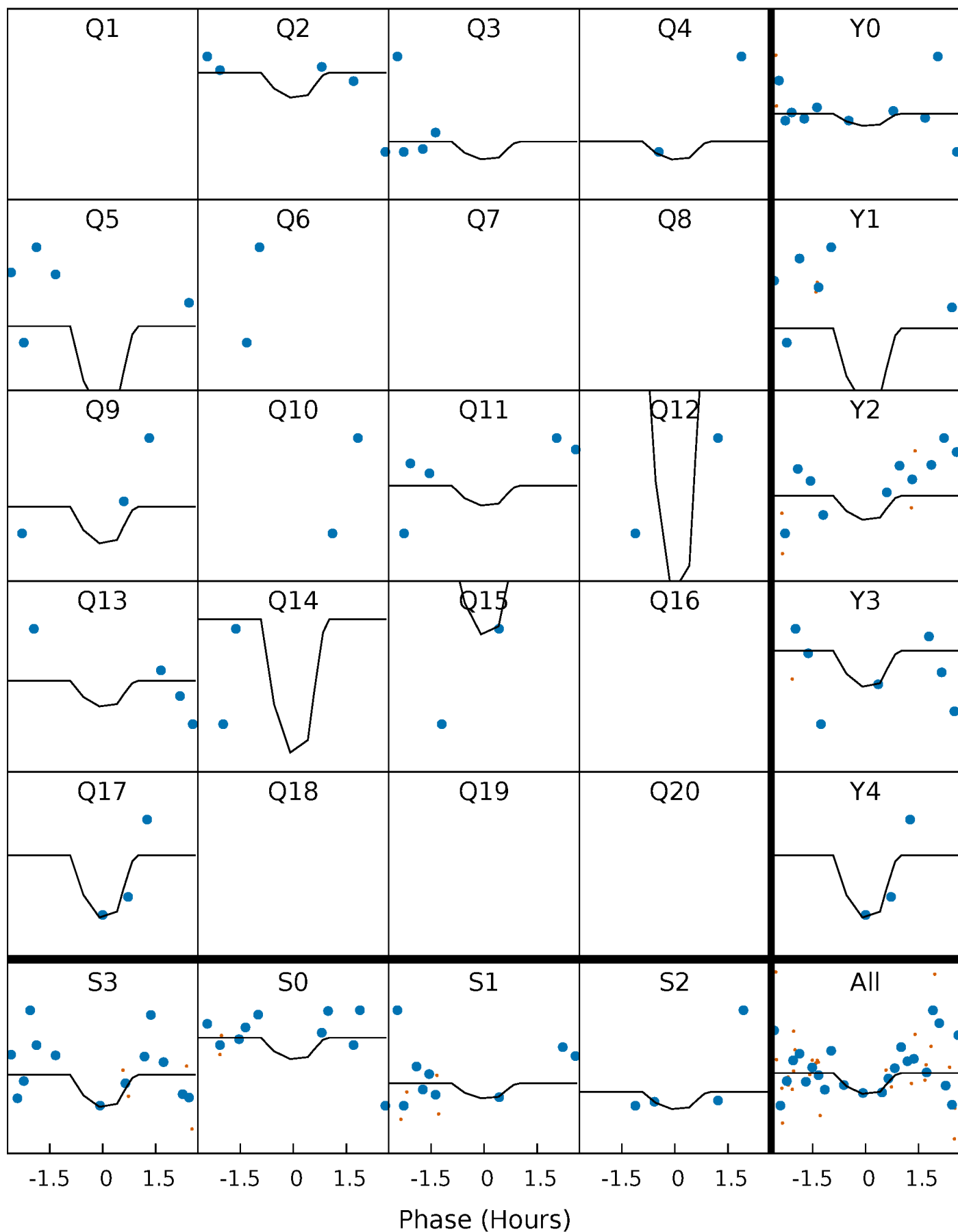
PDC Quarter-Phased Transit Curves

TCE 011714150-04 P= 9.140972 Days $T_0=135.124696$ (BKJD)



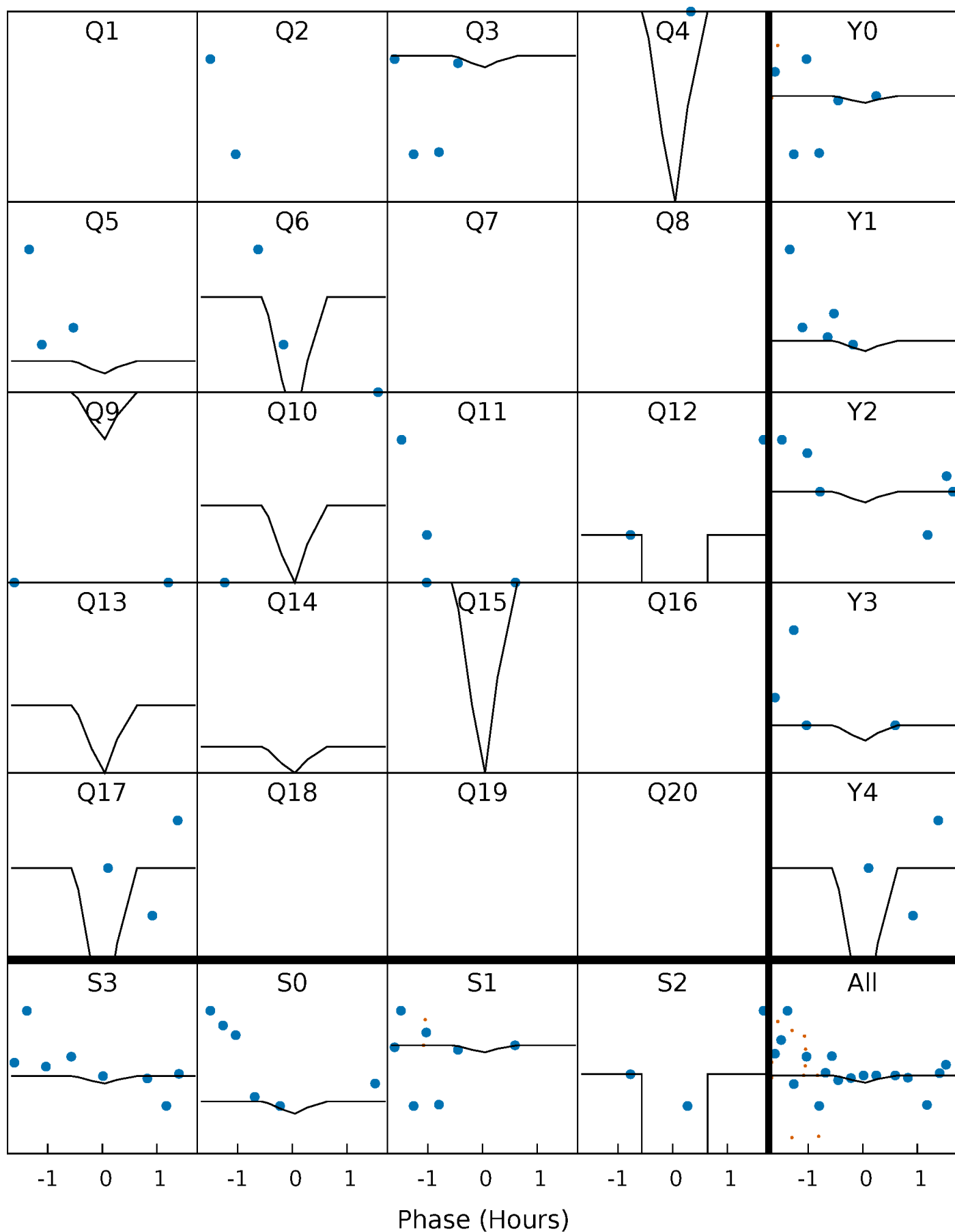
DV Quarter-Phased Transit Curves

TCE 011714150-04 P= 9.140972 Days $T_0=135.124696$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

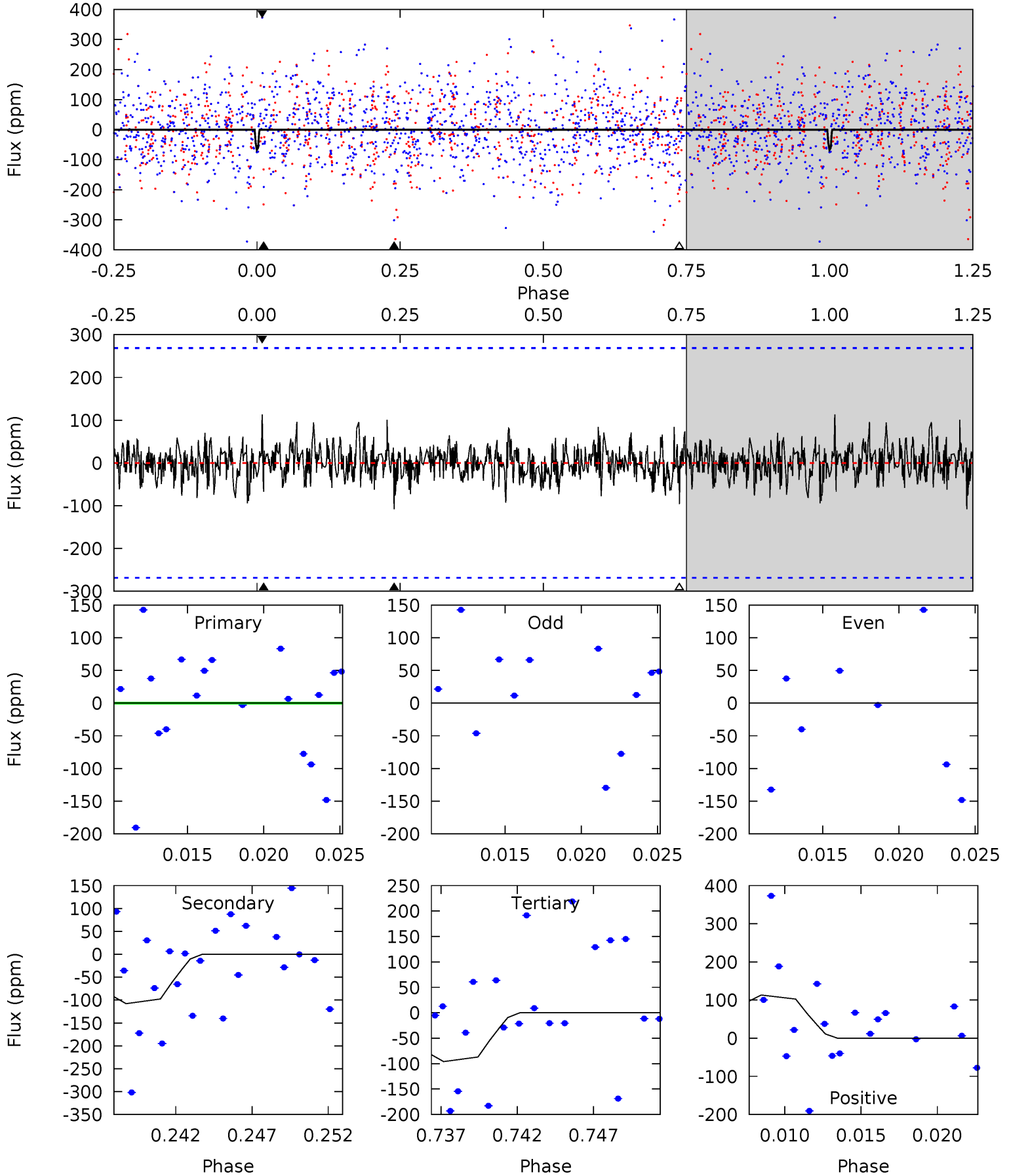
TCE 011714150-04 P= 9.141197 Days $T_0=135.083540$ (BKJD)



DV Model-Shift Uniqueness Test

011714150-04, P = 9.140972 Days, E = 125.983724 Days

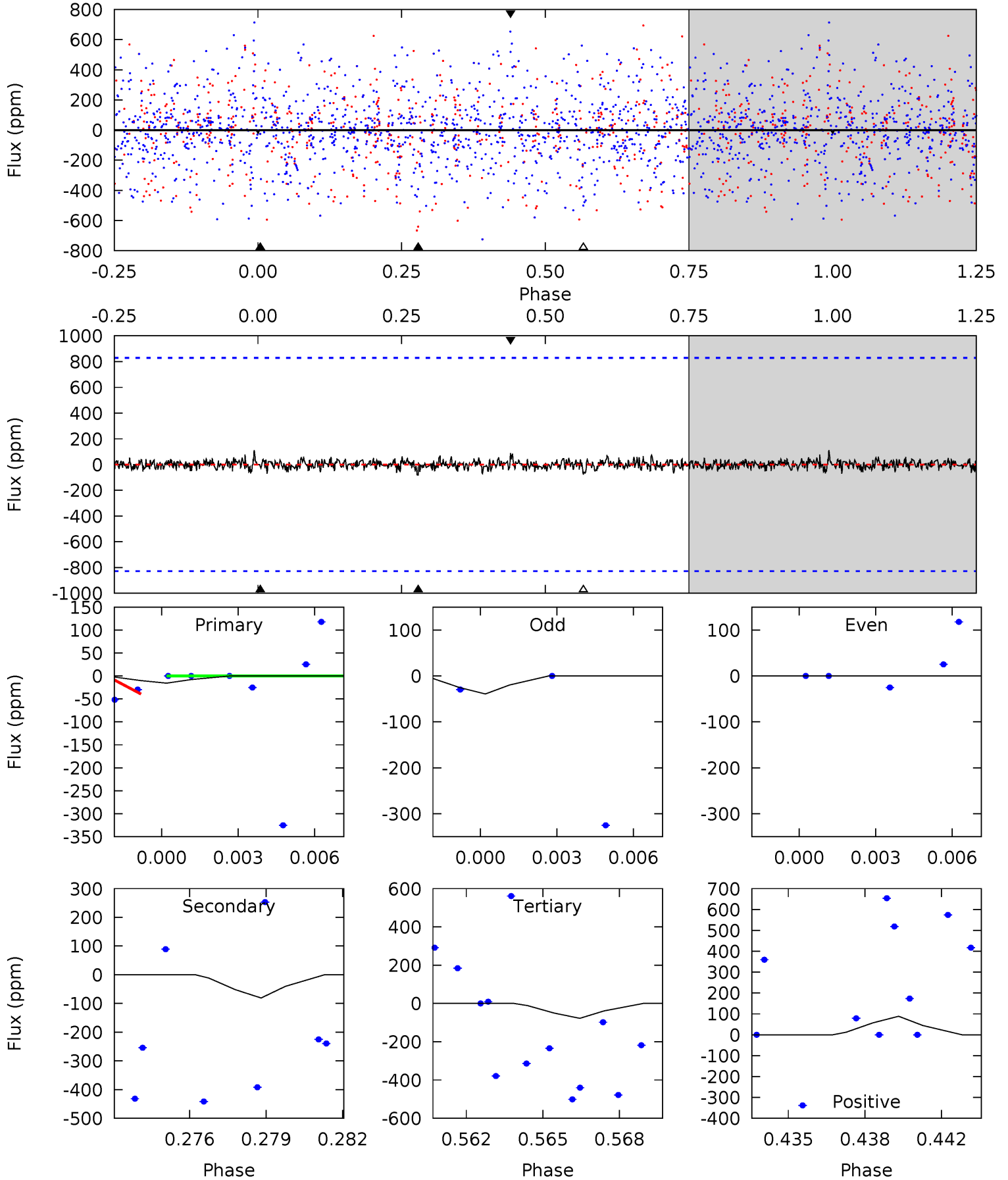
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.29	2.07	1.84	2.17	5.16	2.80	0.57	-0.55	-0.88	0.23	-0.10	0.28	0	0.51	0.00



Alt Model-Shift Uniqueness Test

011714150-04, P = 9.141197 Days, E = 125.942343 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.10	0.51	0.49	0.56	5.24	2.94	0.16	-0.39	-0.46	0.02	-0.05	0	0	0.58	0



Stellar Parameters For KIC 011714150

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8493^{+235}_{-383}	$3.770^{+0.432}_{-0.135}$	$-0.180^{+0.300}_{-0.350}$	$3.061^{+0.785}_{-1.345}$	$2.017^{+0.345}_{-0.474}$	$0.099^{+0.376}_{-0.041}$
	+3%/-5%	+11%/-4%	+167%/-194%	+26%/-44%	+17%/-24%	+379%/-41%
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 011714150-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-108 ± 52	$10.00^{+11.19}_{-7.19}$	2704^{+230}_{-341}	4477^{+3830}_{-1192}	$5.980^{+62.428}_{-4.914}$
Alt.	-81 ± 158	$10.20^{+11.21}_{-7.36}$	2698^{+219}_{-326}	3878^{+3253}_{-8293}	$2.674^{+38.047}_{-7.108}$

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

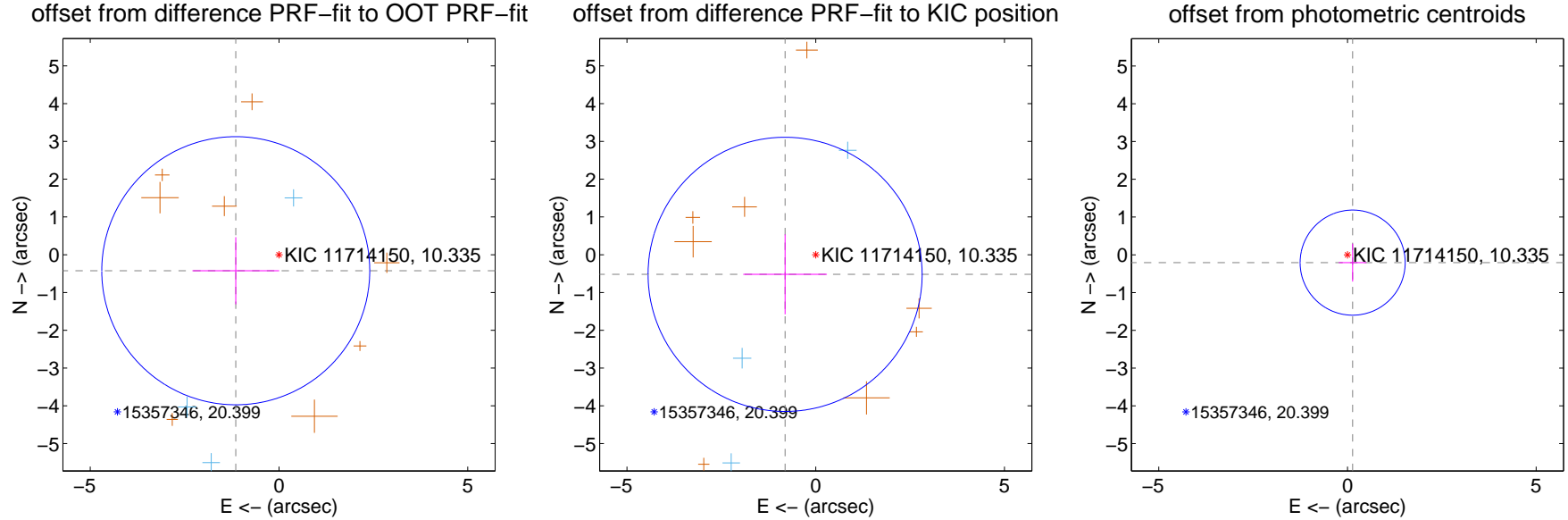
DV Centroid Data

Supplemental centroid analysis for 011714150-04. **Kepler magnitude: 10.34.** Transit SNR 3.15

There are 3 quarters with good PRF difference image offsets

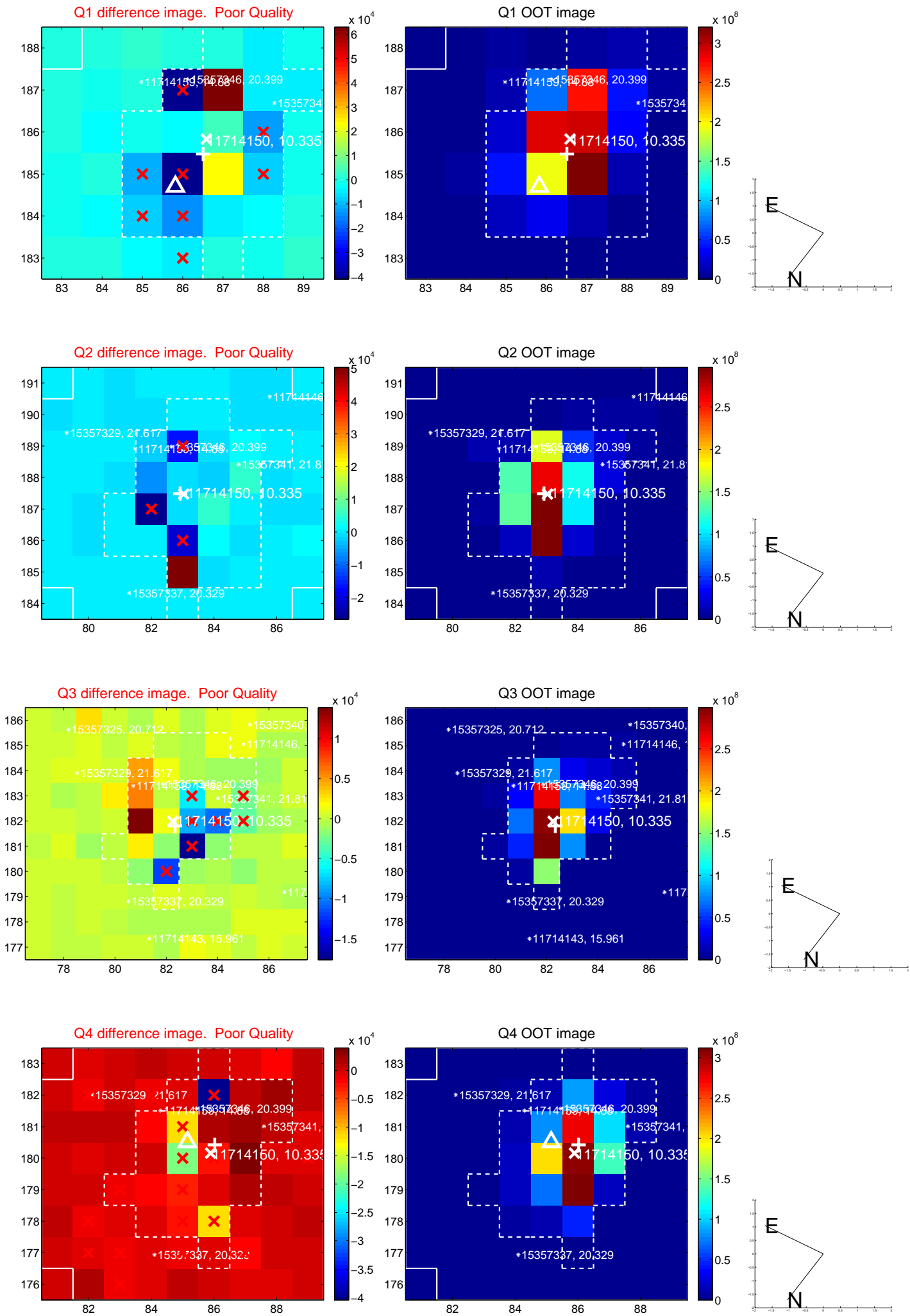
The direct PRF centroid is offset from the target star catalog position by about 1.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.222 ± 1.183	1.03	1.146 ± 1.149	-0.424 ± 0.888
PRF-fit source offset from KIC position	0.964 ± 1.210	0.80	0.811 ± 1.109	-0.520 ± 1.058
photometric centroid source offset	0.25 ± 0.46	0.54	-0.14 ± 0.37	-0.21 ± 0.50

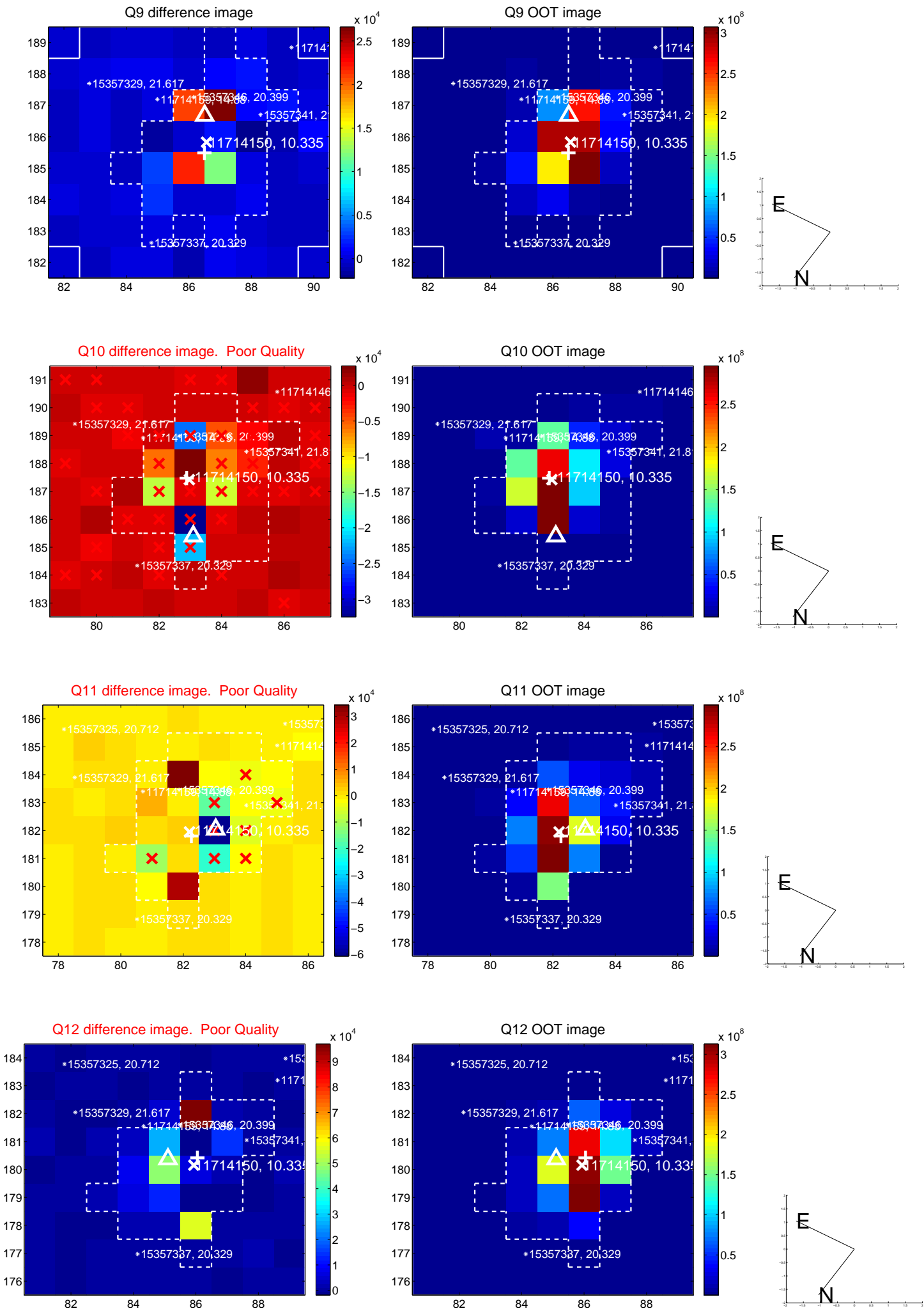


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

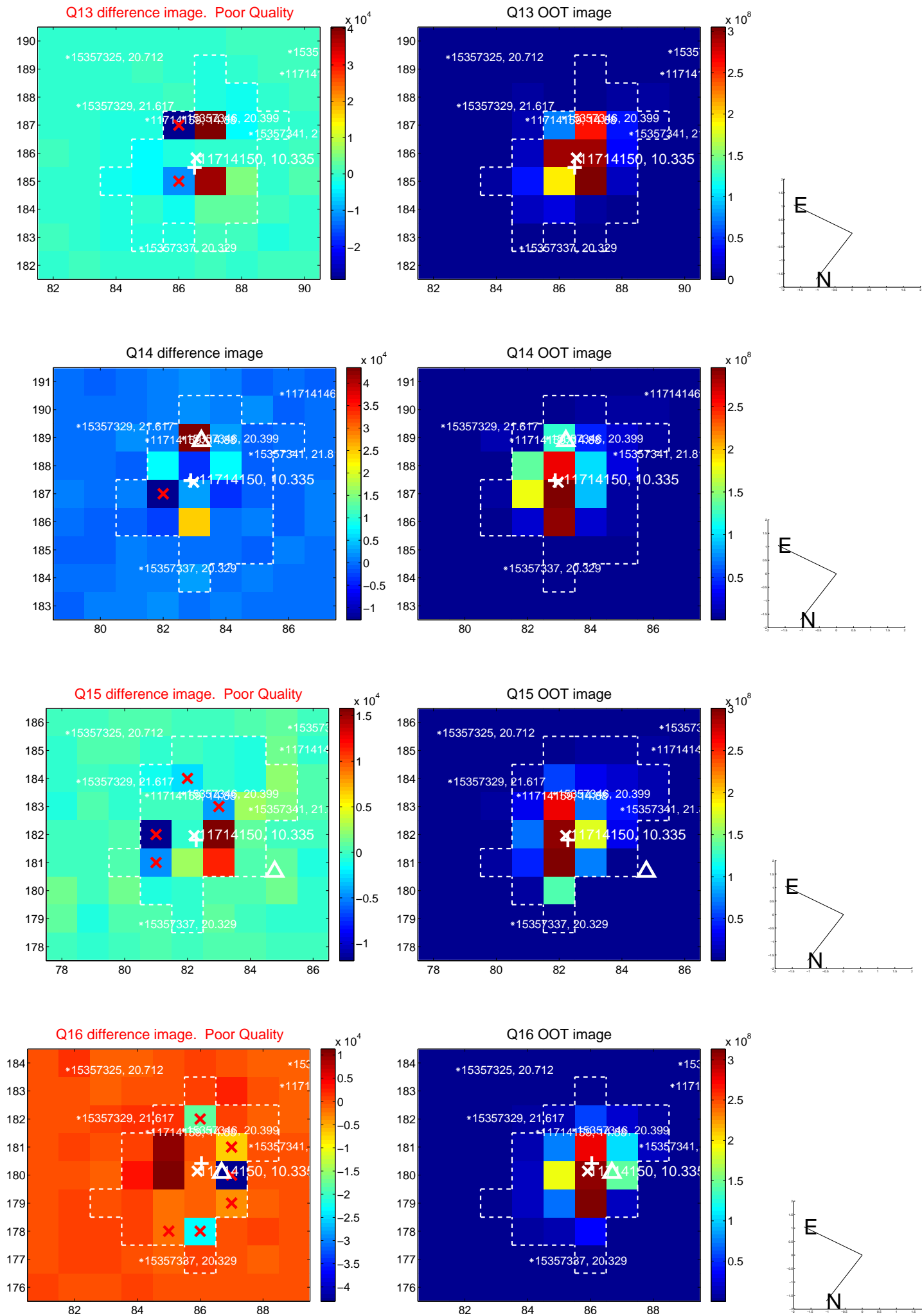
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



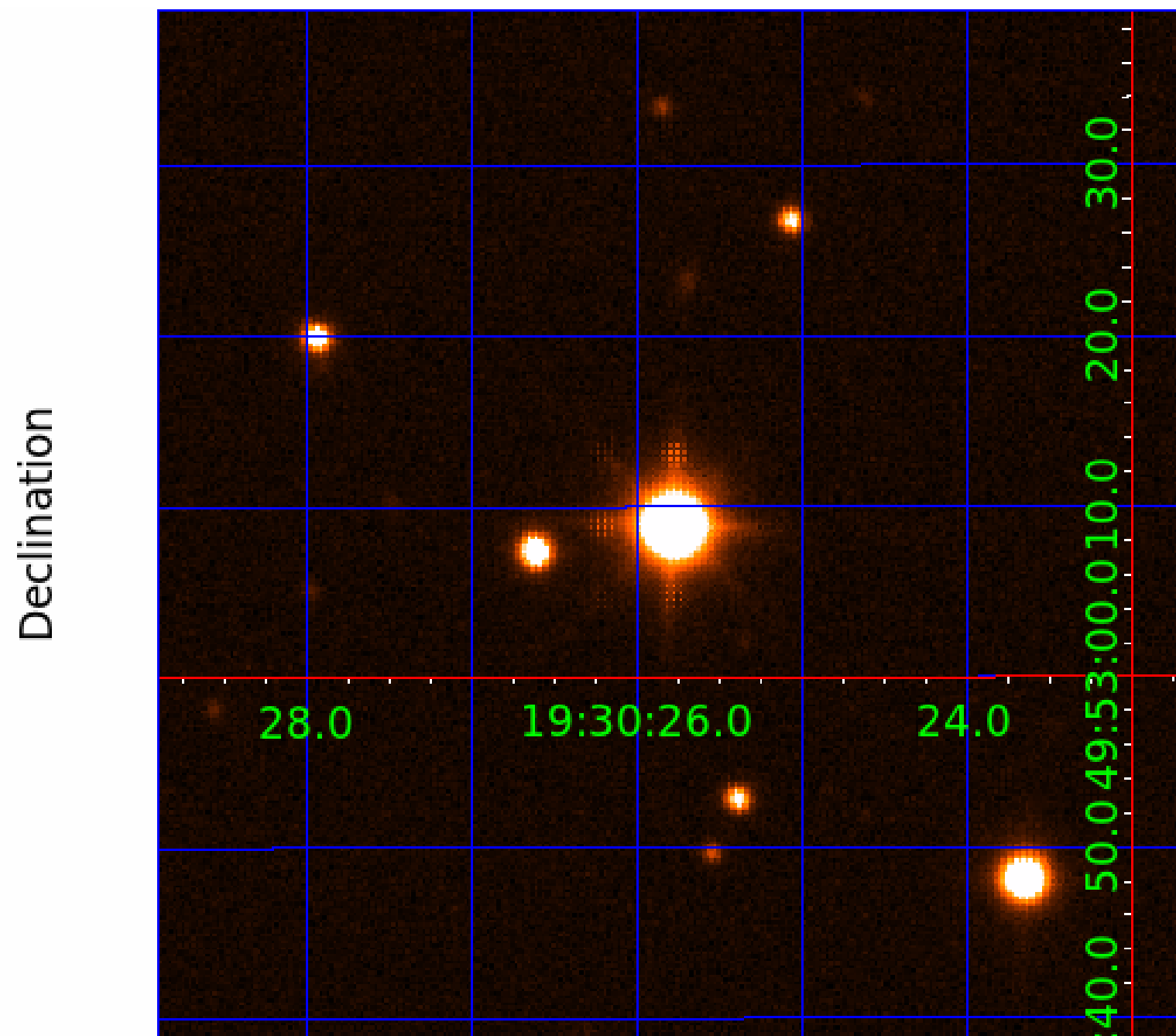
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 011714150

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})
011714150-01	OBS	No	1.694524	131.568784	18.0	5.780	10.9	9.1	3.06	8493	1.43	35398.43
011714150-02	OBS	No	0.588549	131.863166	17.4	4.290	9.8	12.7	3.06	8493	1.49	144989.99
011714150-03	OBS	No	2.074040	133.479216	0.2	3.064	17.8	0.1	3.06	8493	0.15	27036.99
011714150-04	OBS	No	9.140972	135.124696	78.5	1.350	12.1	3.2	3.06	8493	2.85	3741.61
011714150-05	OBS	No	11.605539	132.026703	180.5	1.517	14.6	13.3	3.06	8493	4.23	2721.62
011714150-06	OBS	No	5.955380	134.847991	53.9	6.501	13.7	7.6	3.06	8493	2.52	6624.73
011714150-07	OBS	No	19.202625	140.092455	233.9	1.279	12.4	14.3	3.06	8493	4.77	1390.70
011714150-08	OBS	No	3.983876	135.127734	52.5	3.500	9.6	-1.0	3.06	8493	2.25	11323.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011714150-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
011714150-02	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
011714150-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
011714150-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST
011714150-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

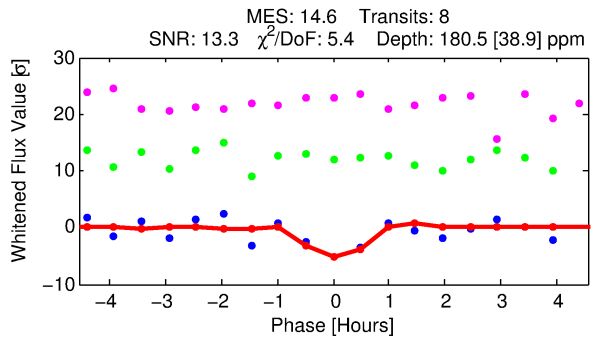
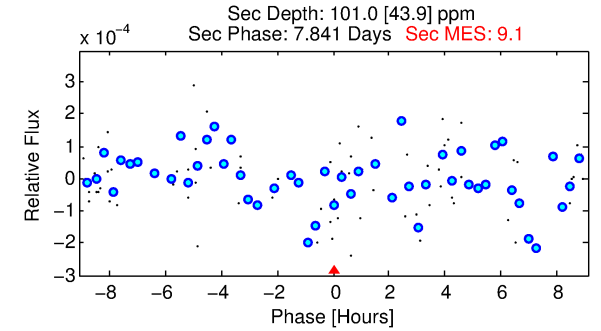
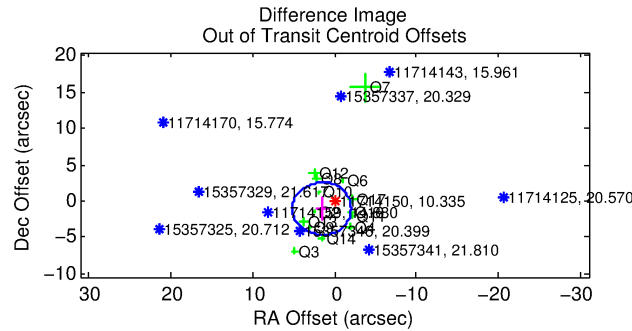
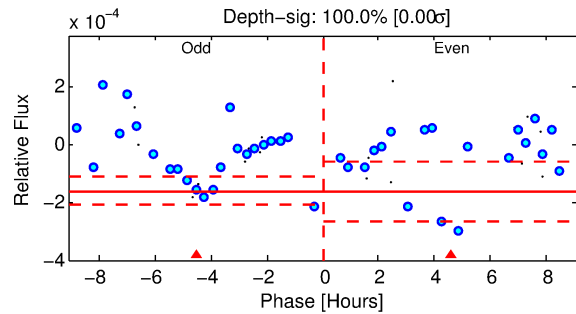
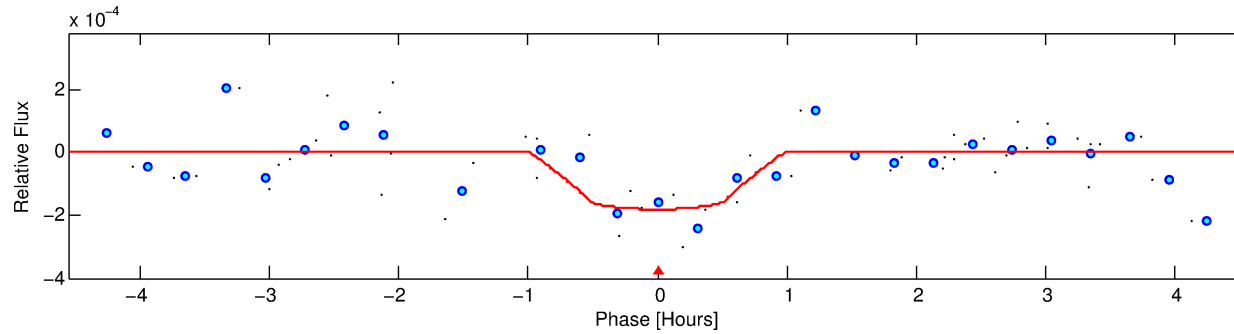
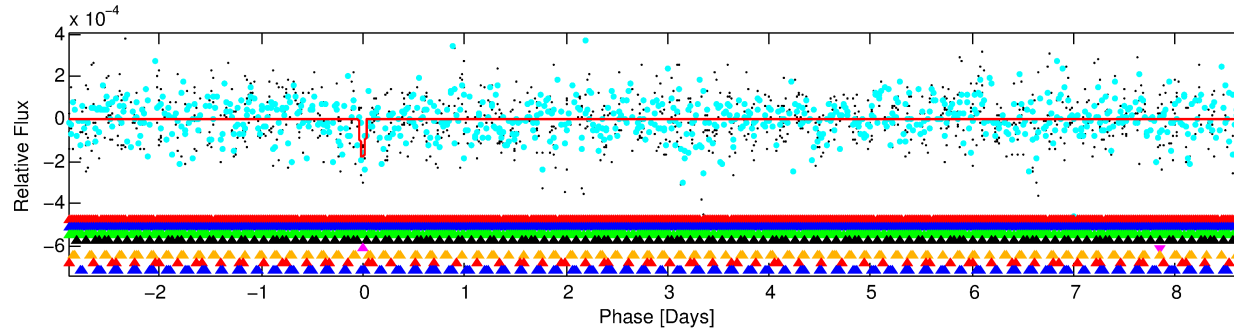
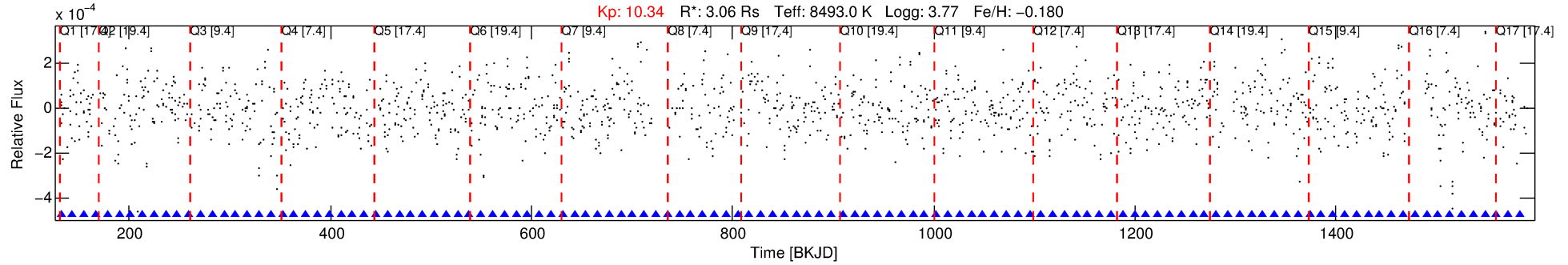
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011714150-05

No Significant Match Found

DV One-Page Summary

KIC: 11714150 Candidate: 5 of 8 Period: 11.606 d



DV Fit Results:

Period = 11.60554 [0.00013] d
Epoch = 132.0267 [0.0076] BKJD
Rp/R* = 0.0127 [0.0220]
a/R* = 54.99 [565.62]
b = 0.38 [23.72]
Seff = 2721.62 [2033.23]
Teq = 1842 [344] K
Rp = 4.23 [7.58] Re
a = 0.1267 [0.0560] AU
Ag = 49.77 [177.96] [0.27σ]
Teffp = 7563 [6629] K [0.86σ]

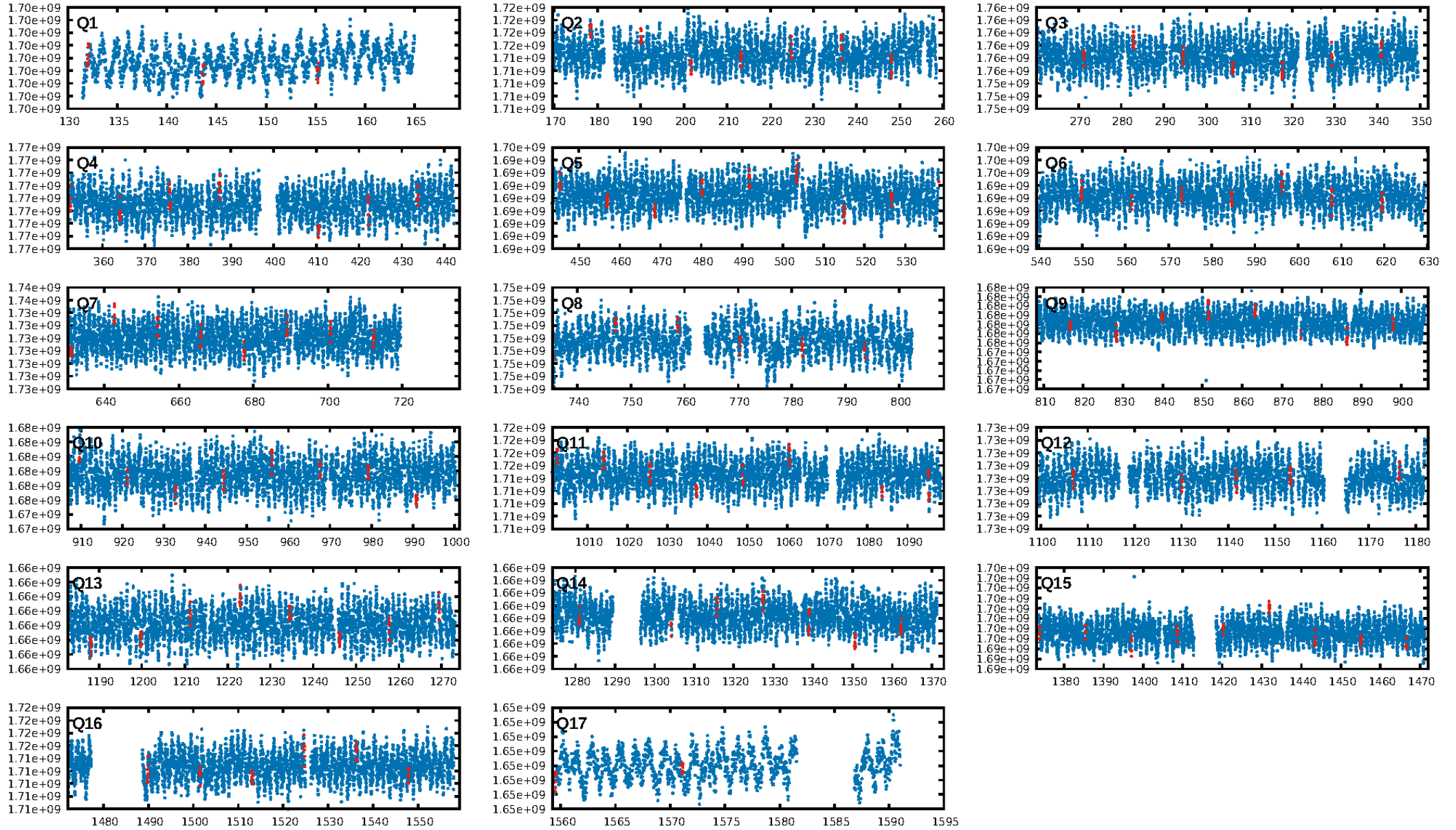
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [29.13σ]
LongPeriod-sig: 100.0% [91.90σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 64.6%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [8/8]
GhostDiagnostic-chr: -0.6843
Centroid-sig: 0.6%
Centroid-so: 0.470 arcsec [2.04σ]
OotOffset-rm: 1.874 arcsec [1.56σ]
OotOffset-st: 4/3/4/3 [14]
KicOffset-rm: 1.932 arcsec [1.77σ]
KicOffset-st: 4/3/4/3 [14]
DiffImageQuality-fgm: 0.14 [2/14]
DiffImageOverlap-fno: 0.00 [0/17]

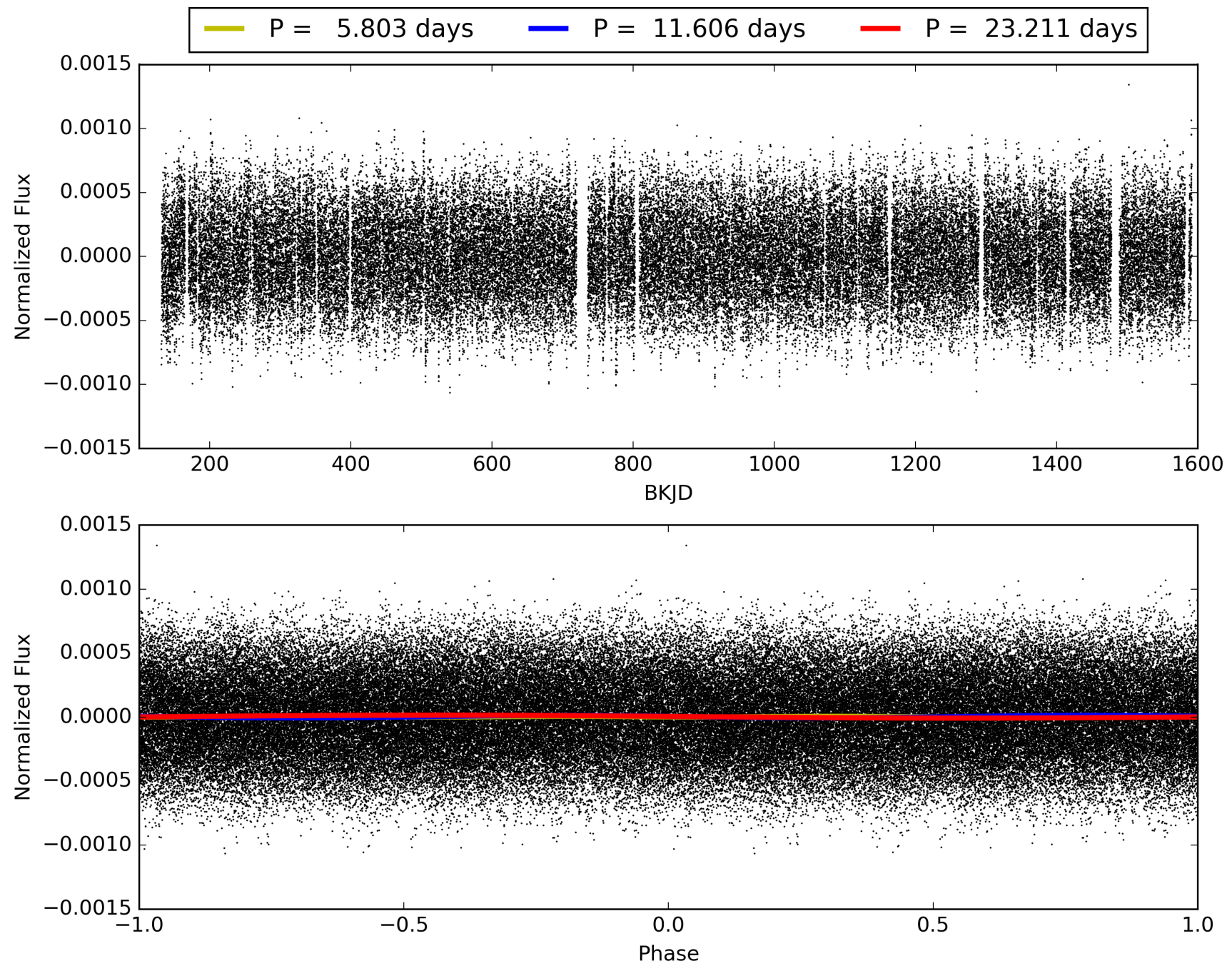
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:25:04 Z

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

TCE 011714150-05, PDC Light Curves

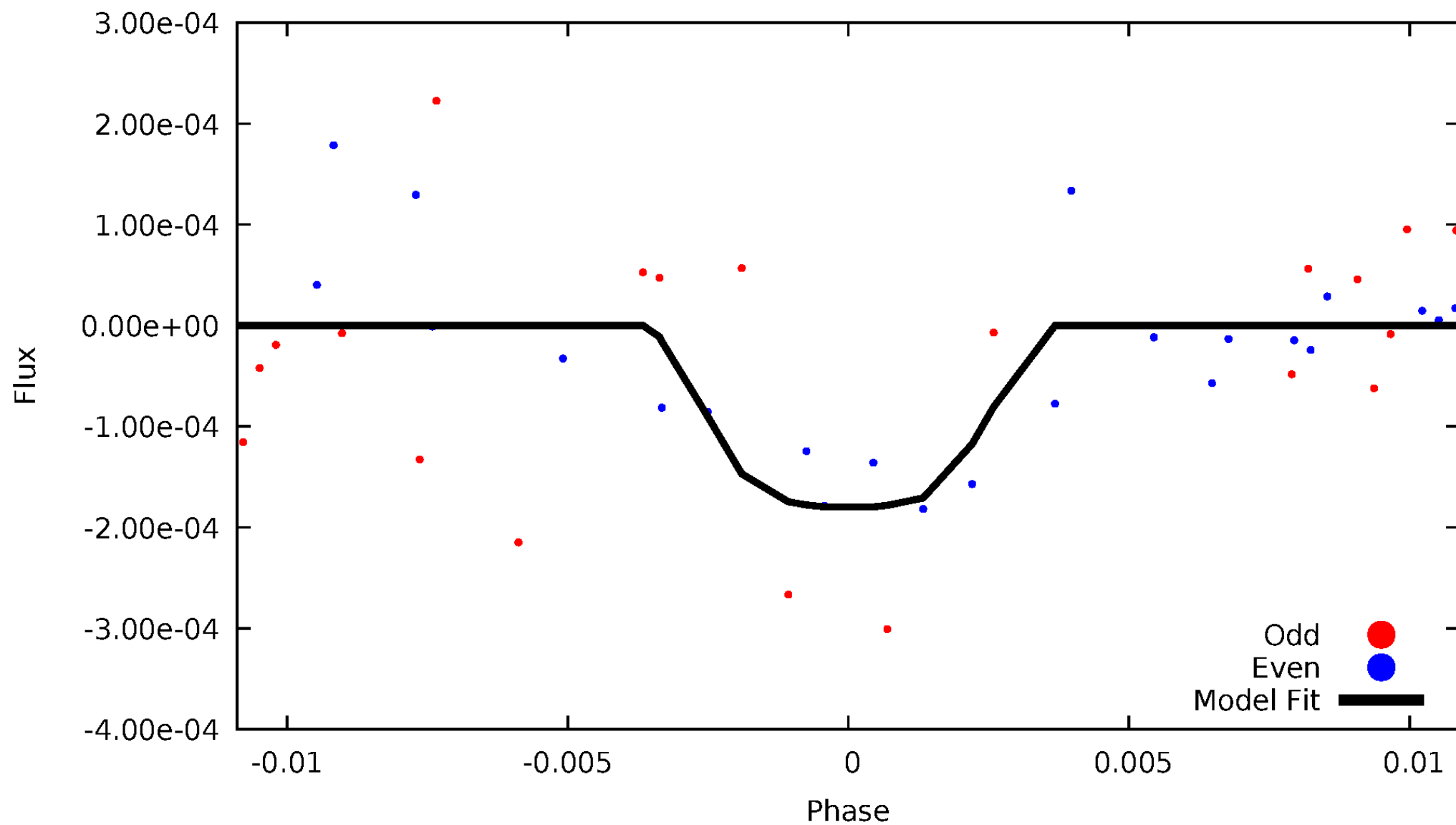


TCE 011714150-05



DV Odd/Even

TCE 011714150-05

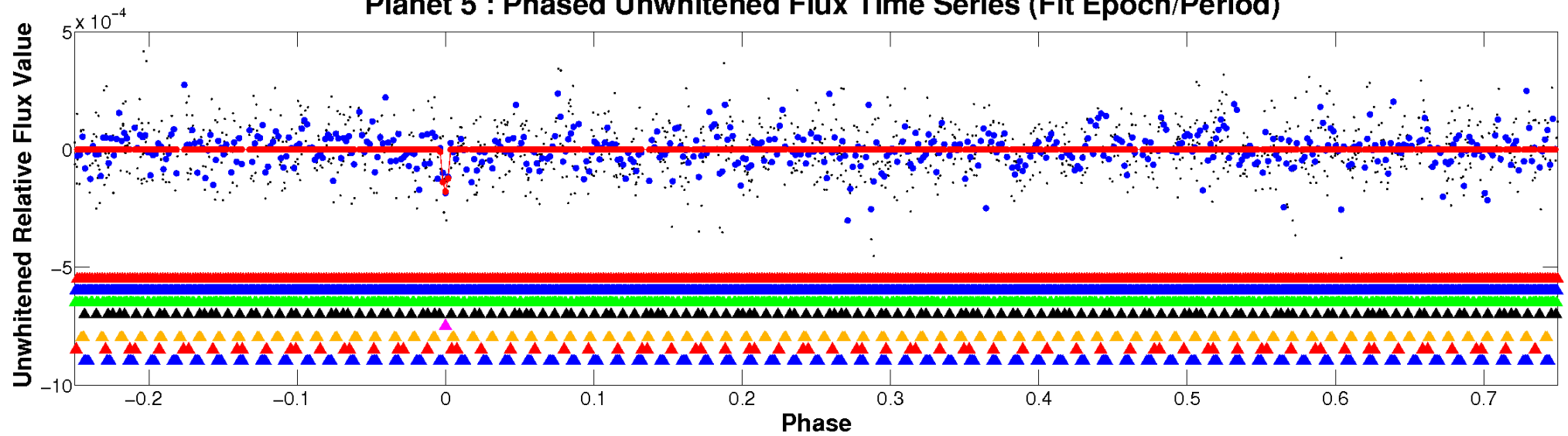


ALT Odd/Even

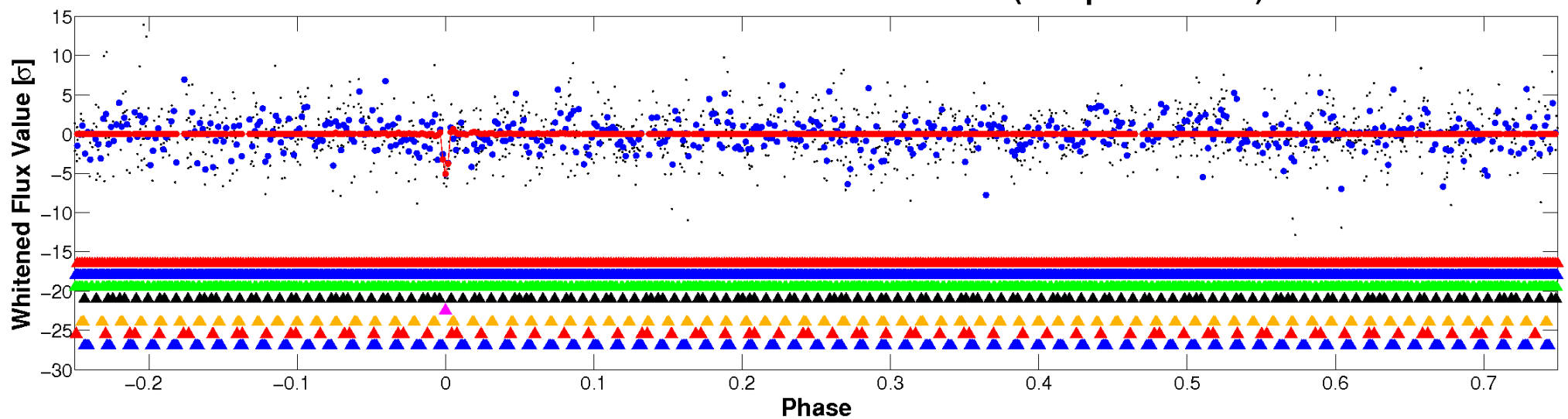
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

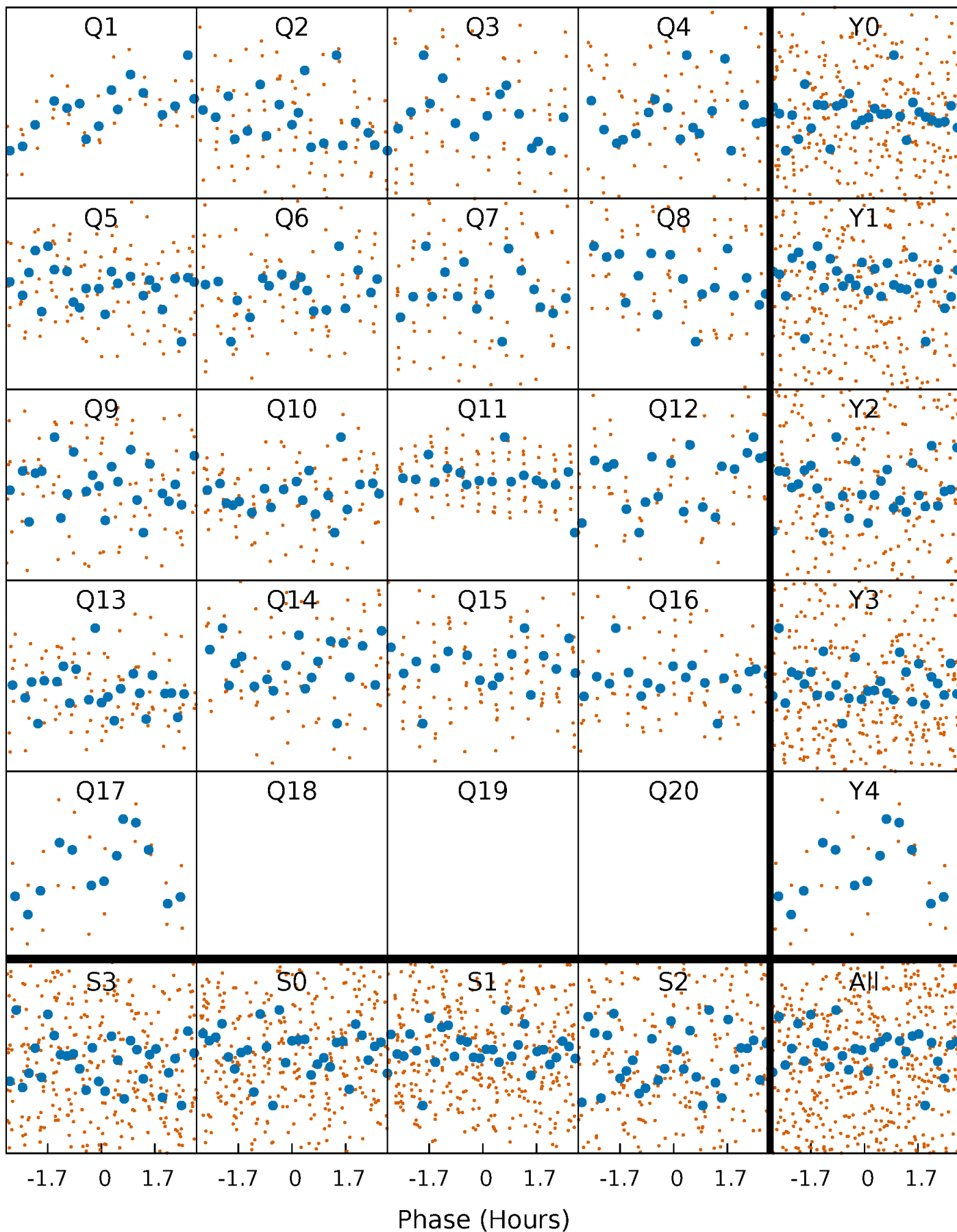


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



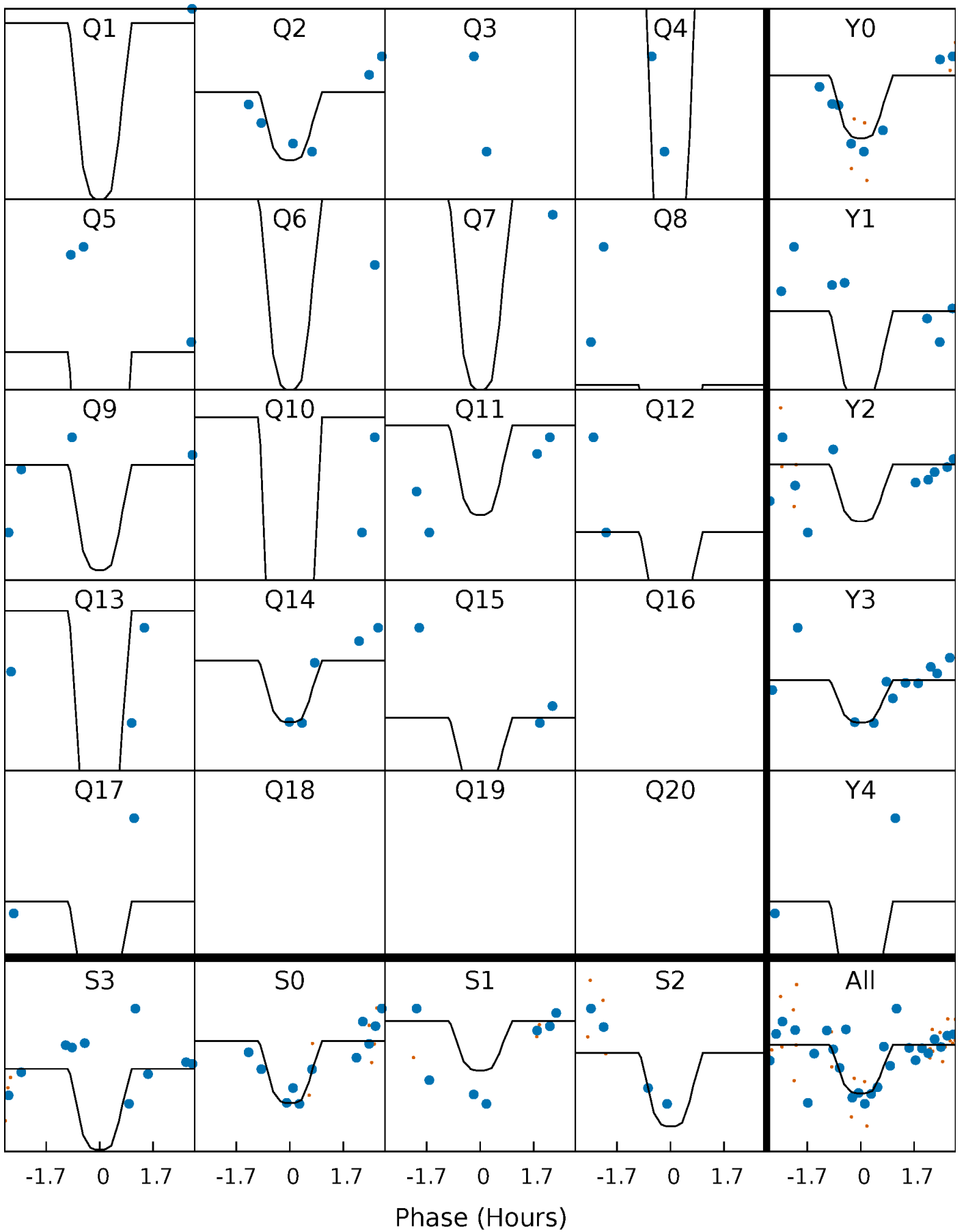
PDC Quarter-Phased Transit Curves

TCE 011714150-05 P= 11.605539 Days $T_0=132.026703$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011714150-05 P= 11.605539 Days $T_0=132.026703$ (BKJD)

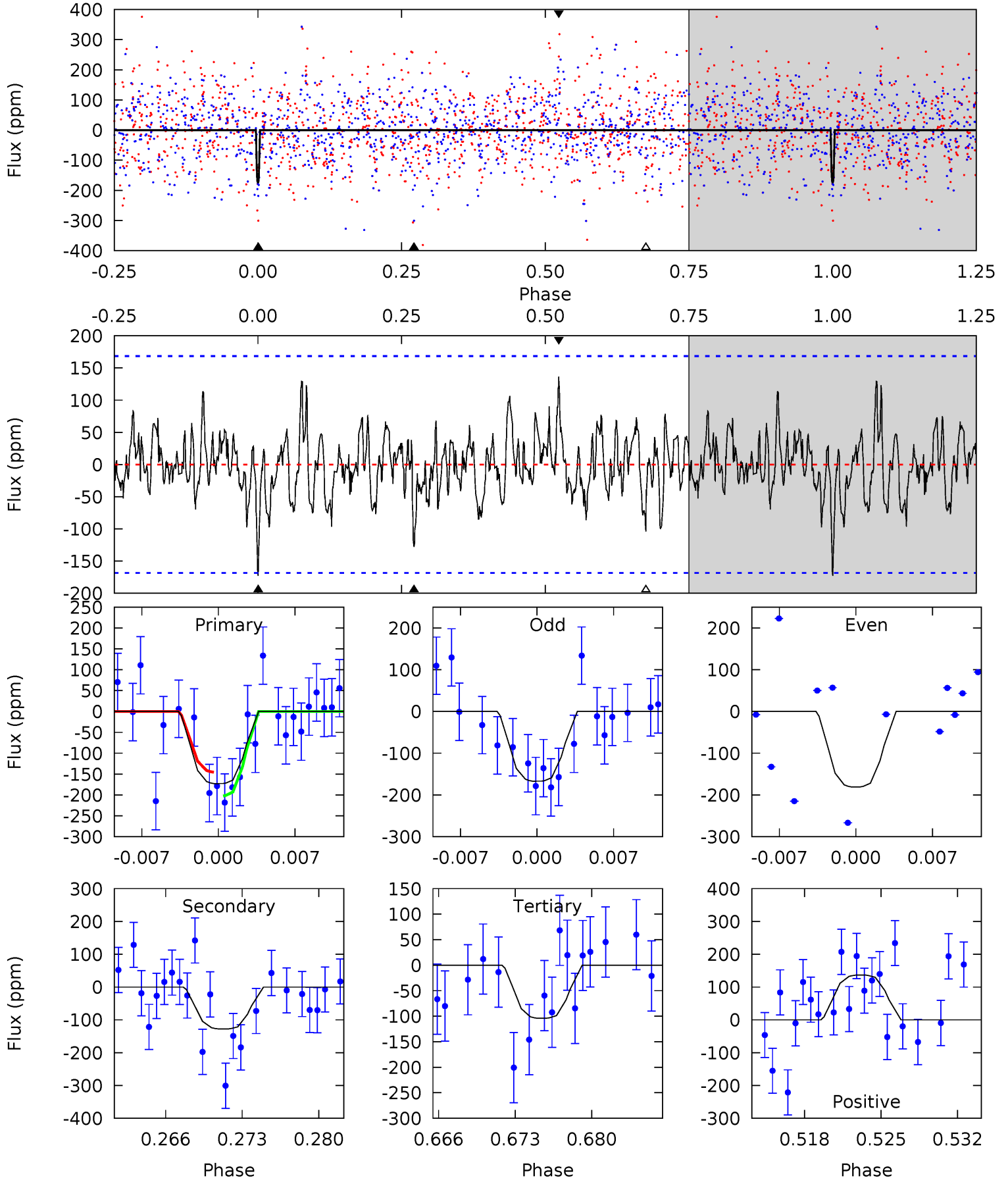


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

011714150-05, P = 11.605539 Days, E = 132.026703 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.23	3.86	3.14	4.13	5.09	2.70	1.24	2.08	1.10	0.72	-0.26	0.20	1.10	0.44	0.87



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 011714150

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8493^{+235}_{-383}	$3.770^{+0.432}_{-0.135}$	$-0.180^{+0.300}_{-0.350}$	$3.061^{+0.785}_{-1.345}$	$2.017^{+0.345}_{-0.474}$	$0.099^{+0.376}_{-0.041}$
	+3%/-5%	+11%/-4%	+167%/-194%	+26%/-44%	+17%/-24%	+379%/-41%
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 011714150-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-128 ± 33	$6.37^{+6.13}_{-4.29}$	2503^{+202}_{-298}	5945^{+6254}_{-1472}	28^{+217}_{-21}
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 $A_{\text{obs}} \gg 1.0$

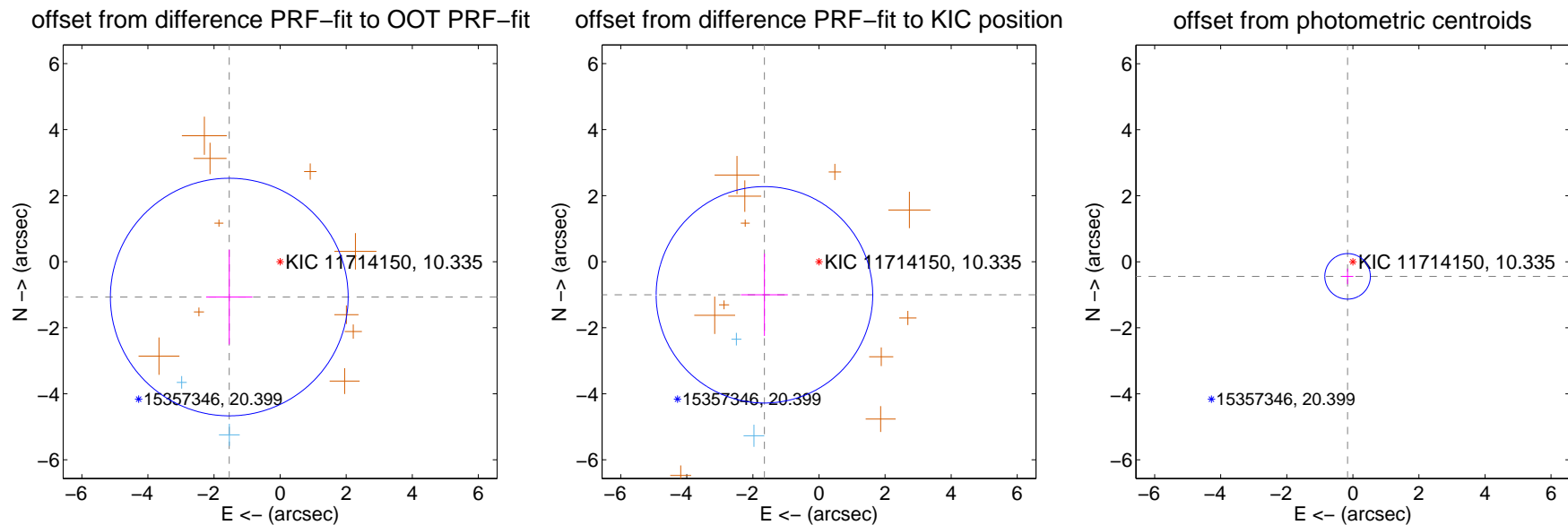
DV Centroid Data

Supplemental centroid analysis for 011714150-05. **Kepler magnitude: 10.34.** Transit SNR 13.33

There are 2 quarters with good PRF difference image offsets

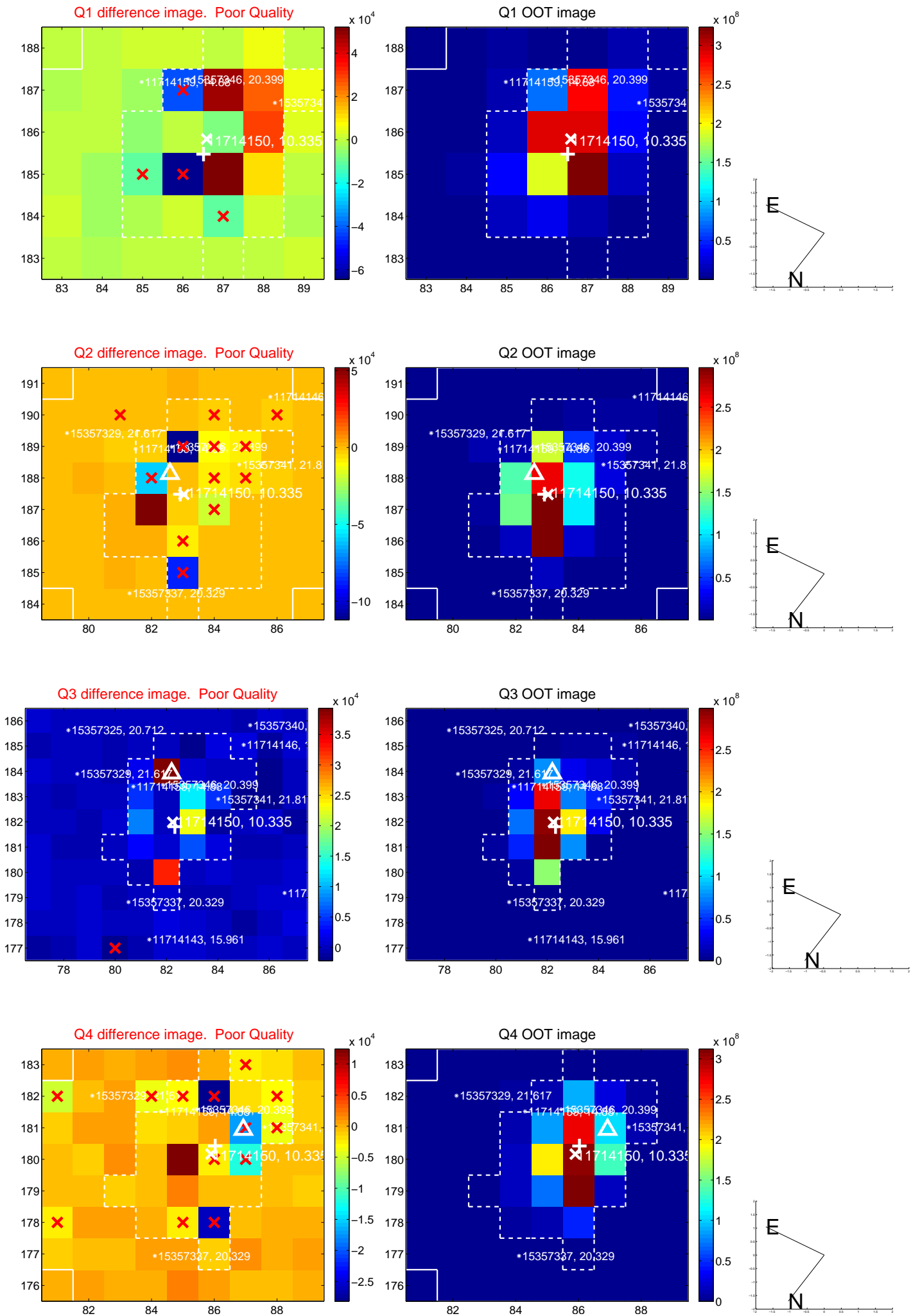
The direct PRF centroid is offset from the target star catalog position by about 1.33 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.874 ± 1.199	1.56	1.538 ± 0.702	-1.071 ± 1.431
PRF-fit source offset from KIC position	1.932 ± 1.092	1.77	1.651 ± 0.709	-1.003 ± 1.246
photometric centroid source offset	0.47 ± 0.23	2.04	0.16 ± 0.17	-0.44 ± 0.24

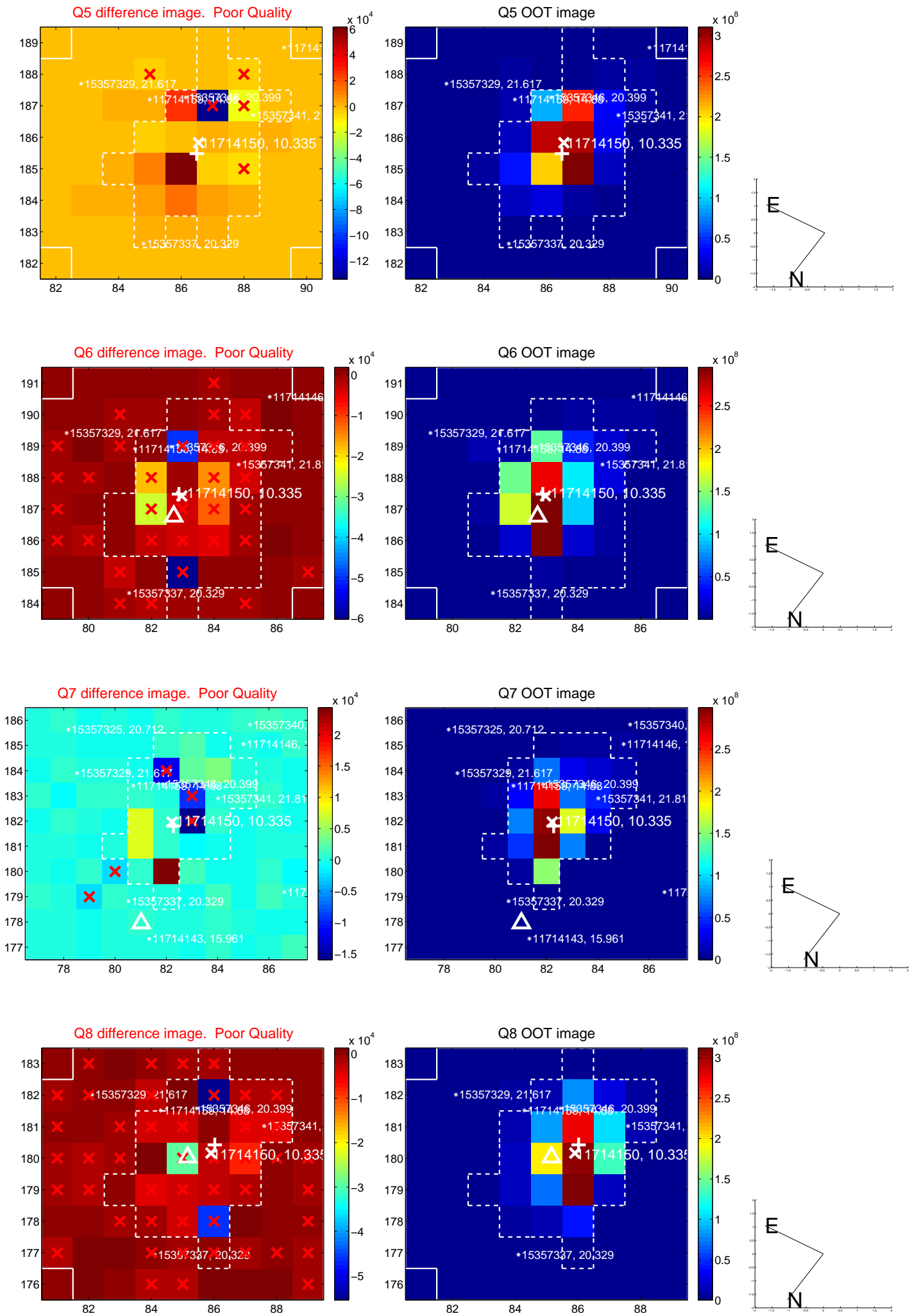


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

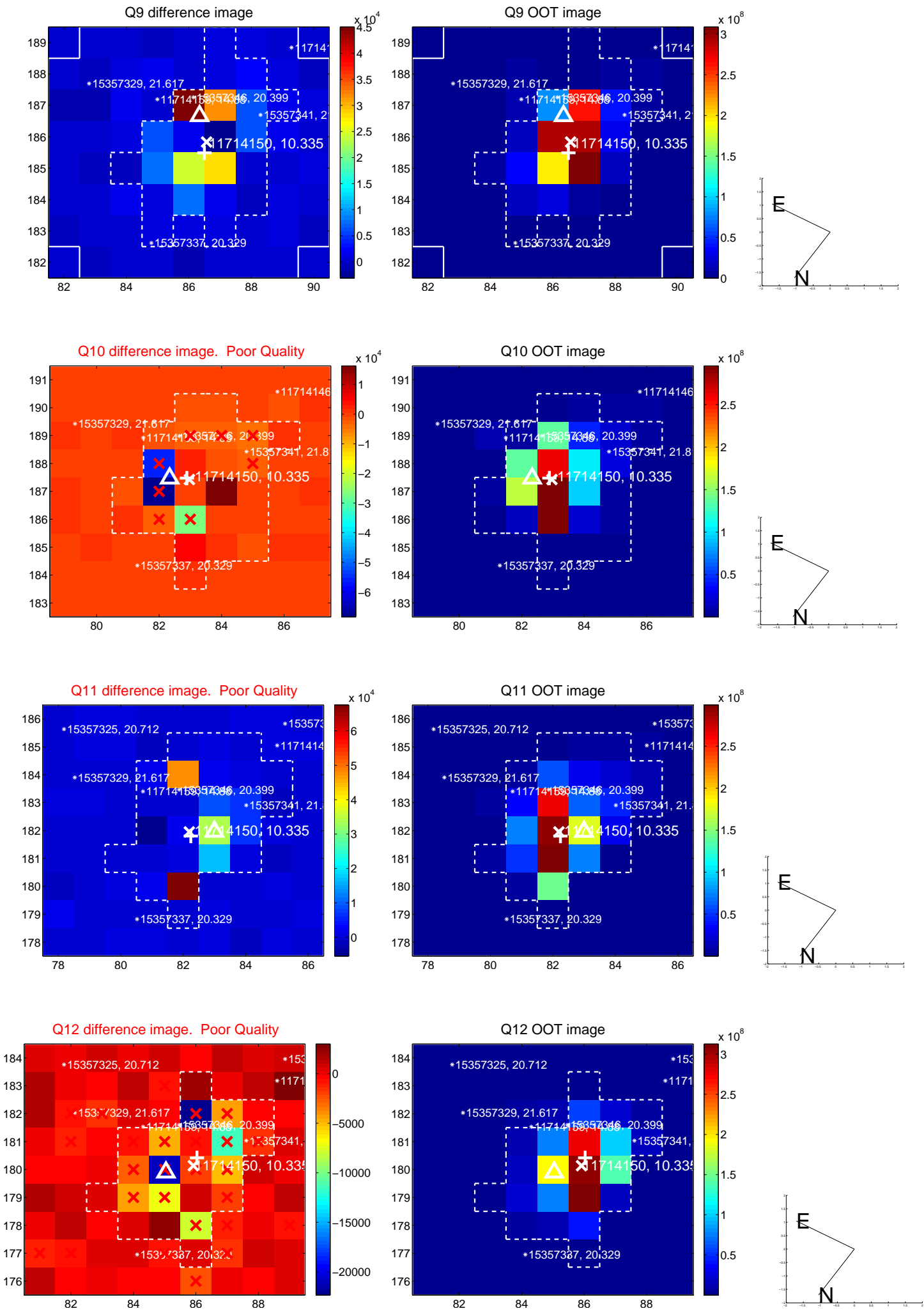
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



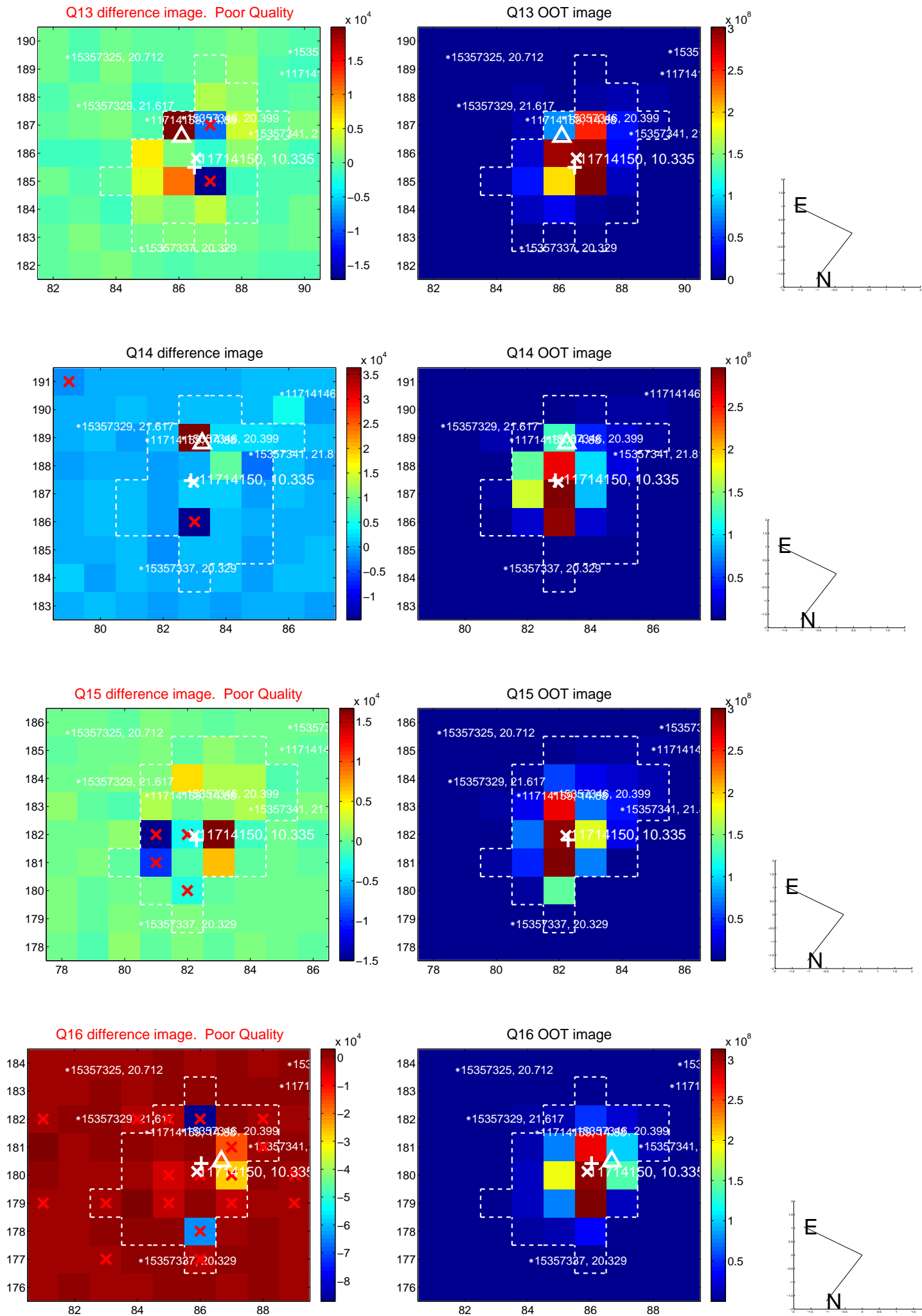
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



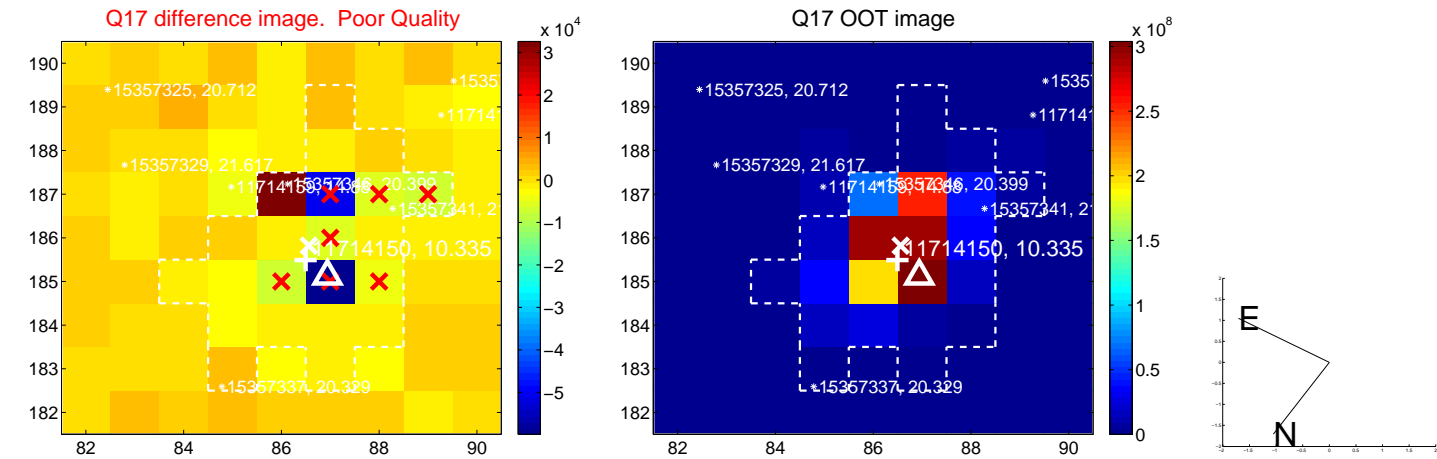
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



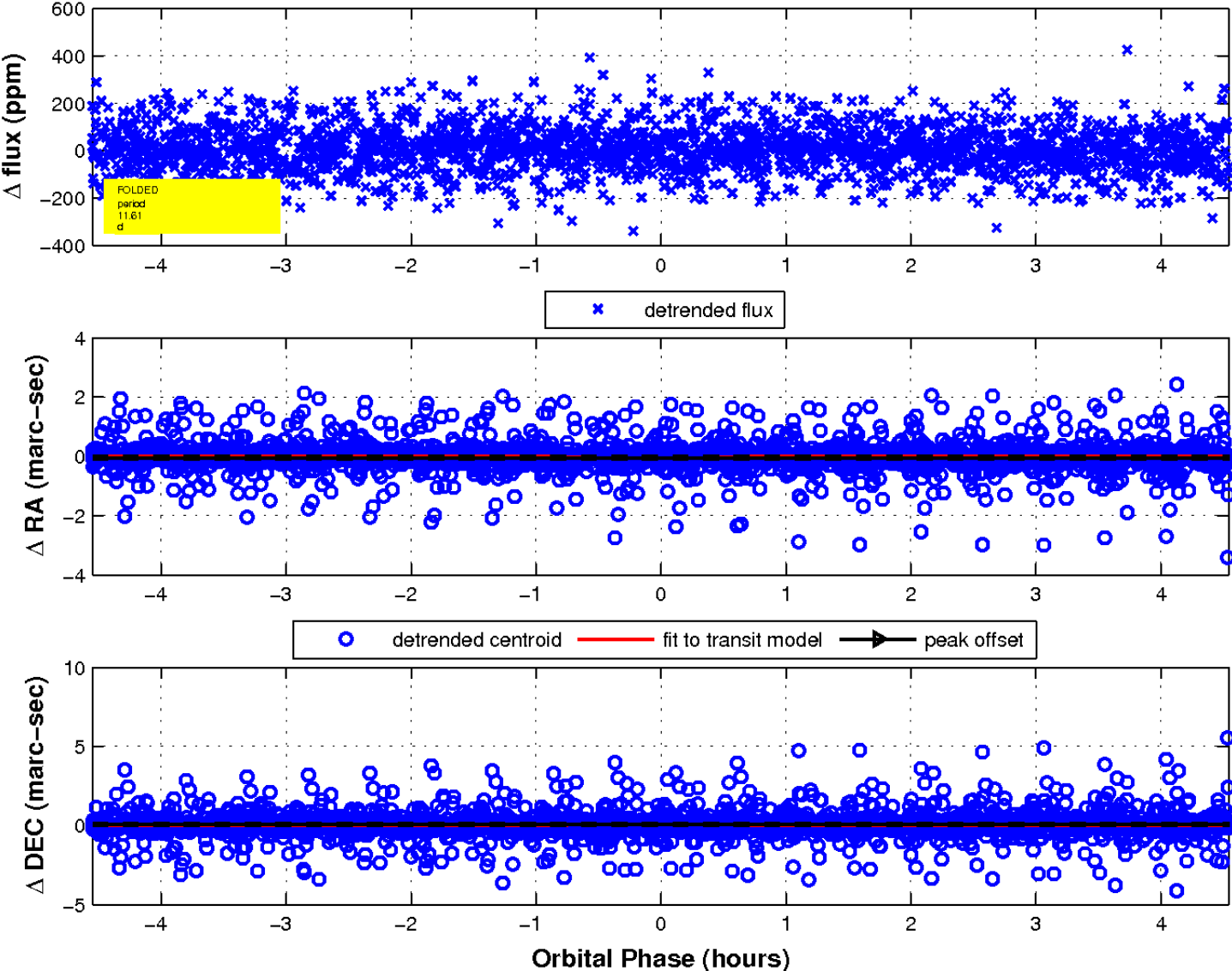
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



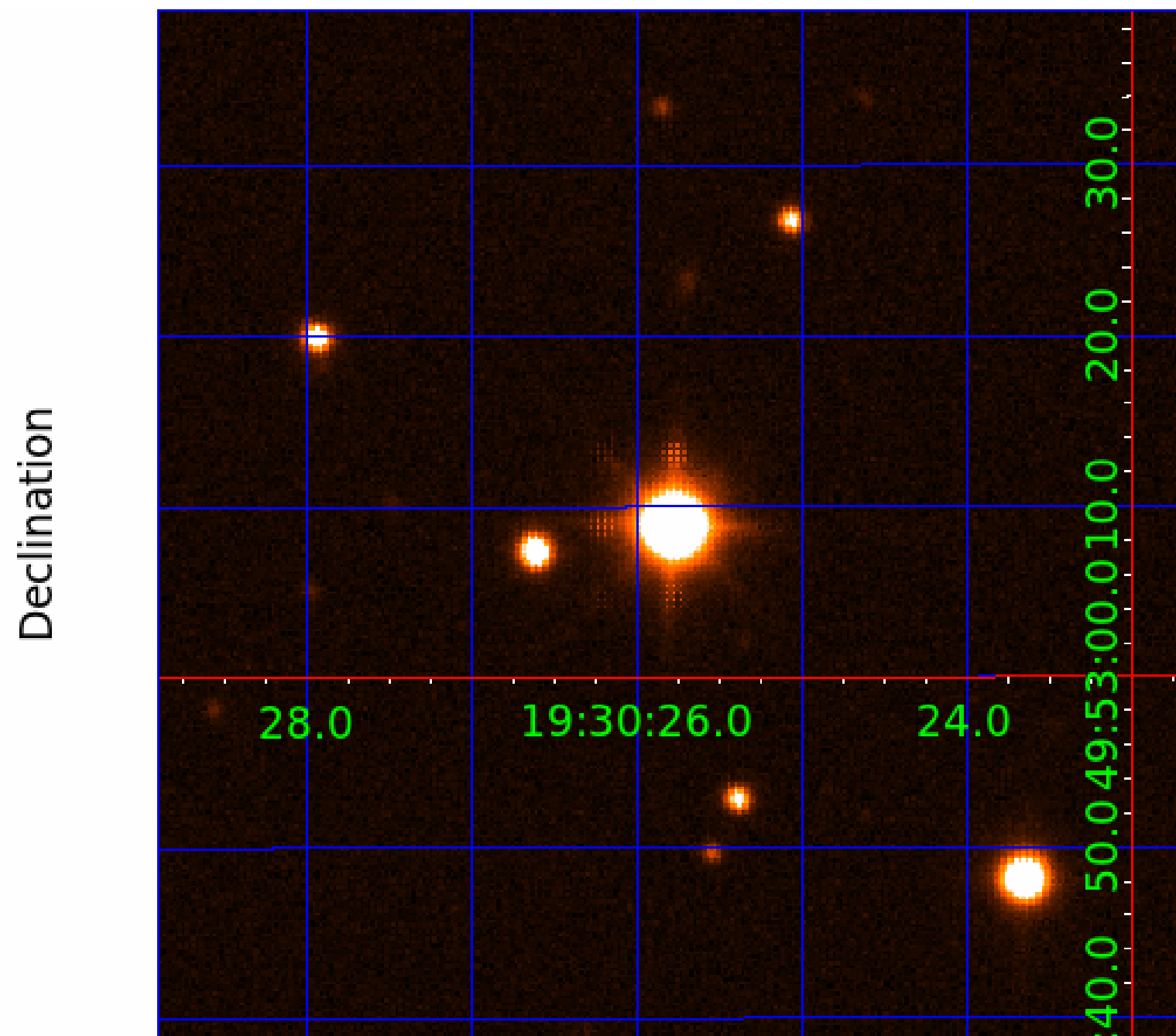
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 5 of 8



UKIRT Image



KIC 011714150

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})
011714150-01	OBS	No	1.694524	131.568784	18.0	5.780	10.9	9.1	3.06	8493	1.43	35398.43
011714150-02	OBS	No	0.588549	131.863166	17.4	4.290	9.8	12.7	3.06	8493	1.49	144989.99
011714150-03	OBS	No	2.074040	133.479216	0.2	3.064	17.8	0.1	3.06	8493	0.15	27036.99
011714150-04	OBS	No	9.140972	135.124696	78.5	1.350	12.1	3.2	3.06	8493	2.85	3741.61
011714150-05	OBS	No	11.605539	132.026703	180.5	1.517	14.6	13.3	3.06	8493	4.23	2721.62
011714150-06	OBS	No	5.955380	134.847991	53.9	6.501	13.7	7.6	3.06	8493	2.52	6624.73
011714150-07	OBS	No	19.202625	140.092455	233.9	1.279	12.4	14.3	3.06	8493	4.77	1390.70
011714150-08	OBS	No	3.983876	135.127734	52.5	3.500	9.6	-1.0	3.06	8493	2.25	11323.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011714150-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
011714150-02	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
011714150-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
011714150-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST
011714150-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

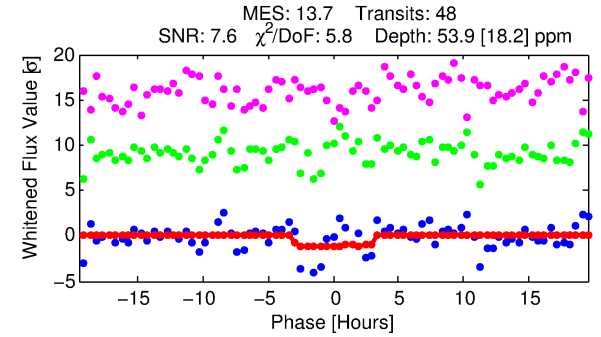
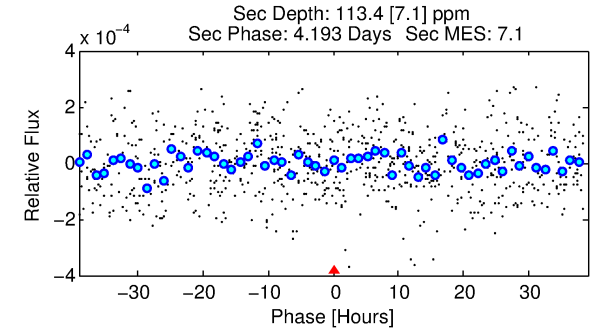
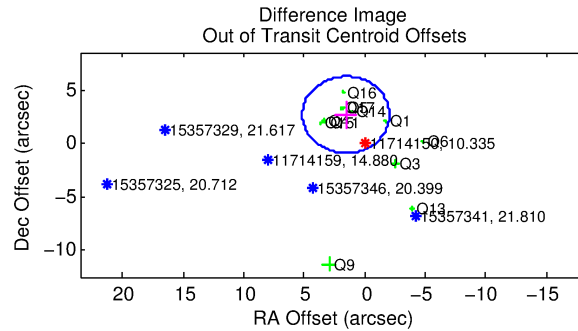
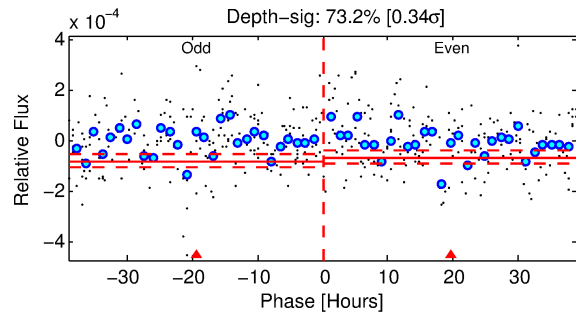
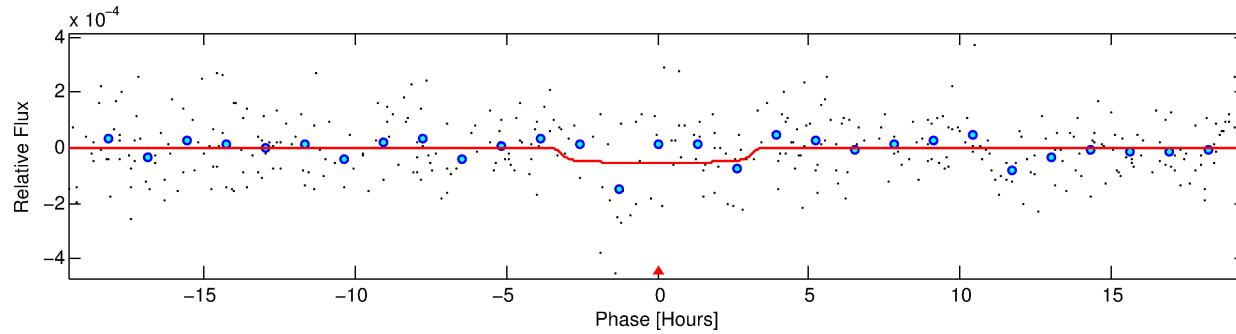
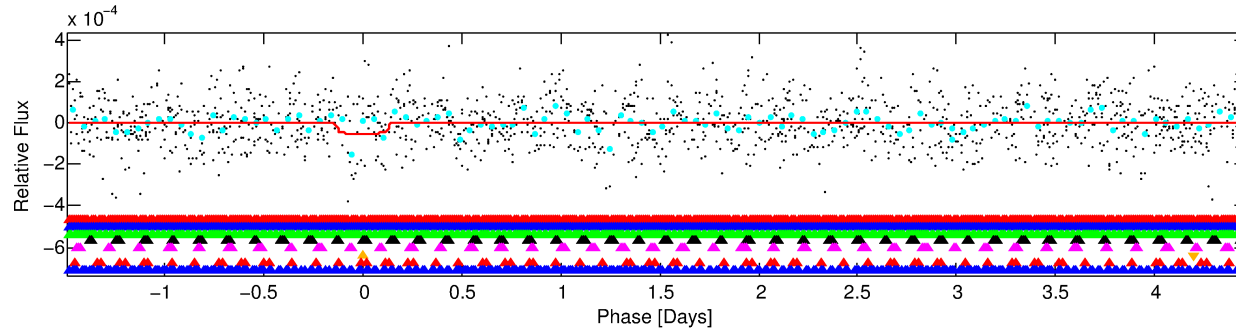
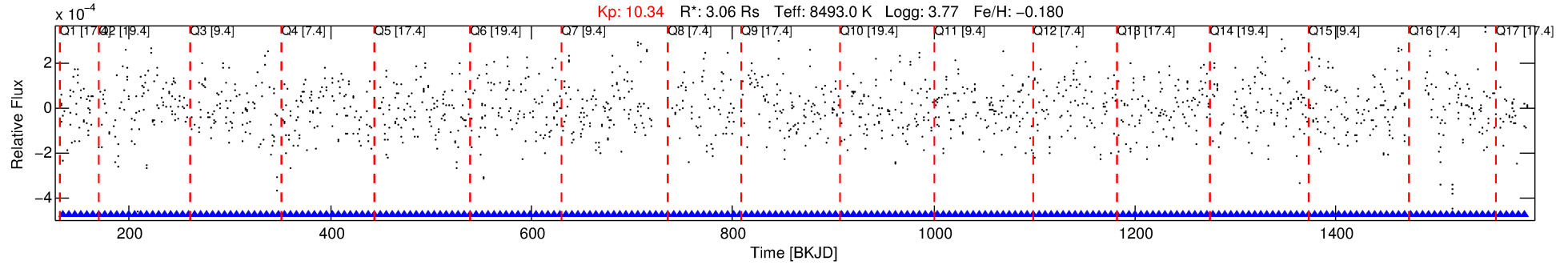
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011714150-06

No Significant Match Found

DV One-Page Summary

KIC: 11714150 Candidate: 6 of 8 Period: 5.955 d



DV Fit Results:

Period = 5.95538 [0.00031] d
Epoch = 134.8480 [0.0311] BKJD
Rp/R* = 0.0076 [0.0113]
a/R* = 3.97 [35.96]
b = 0.84 [3.35]
Seff = 6624.73 [4949.12]
Teq = 2300 [430] K
Rp = 2.52 [3.93] Re
a = 0.0812 [0.0359] AU
Ag = 64.62 [198.81] [0.32 σ]
Teffp = 10084 [7552] K [1.03 σ]

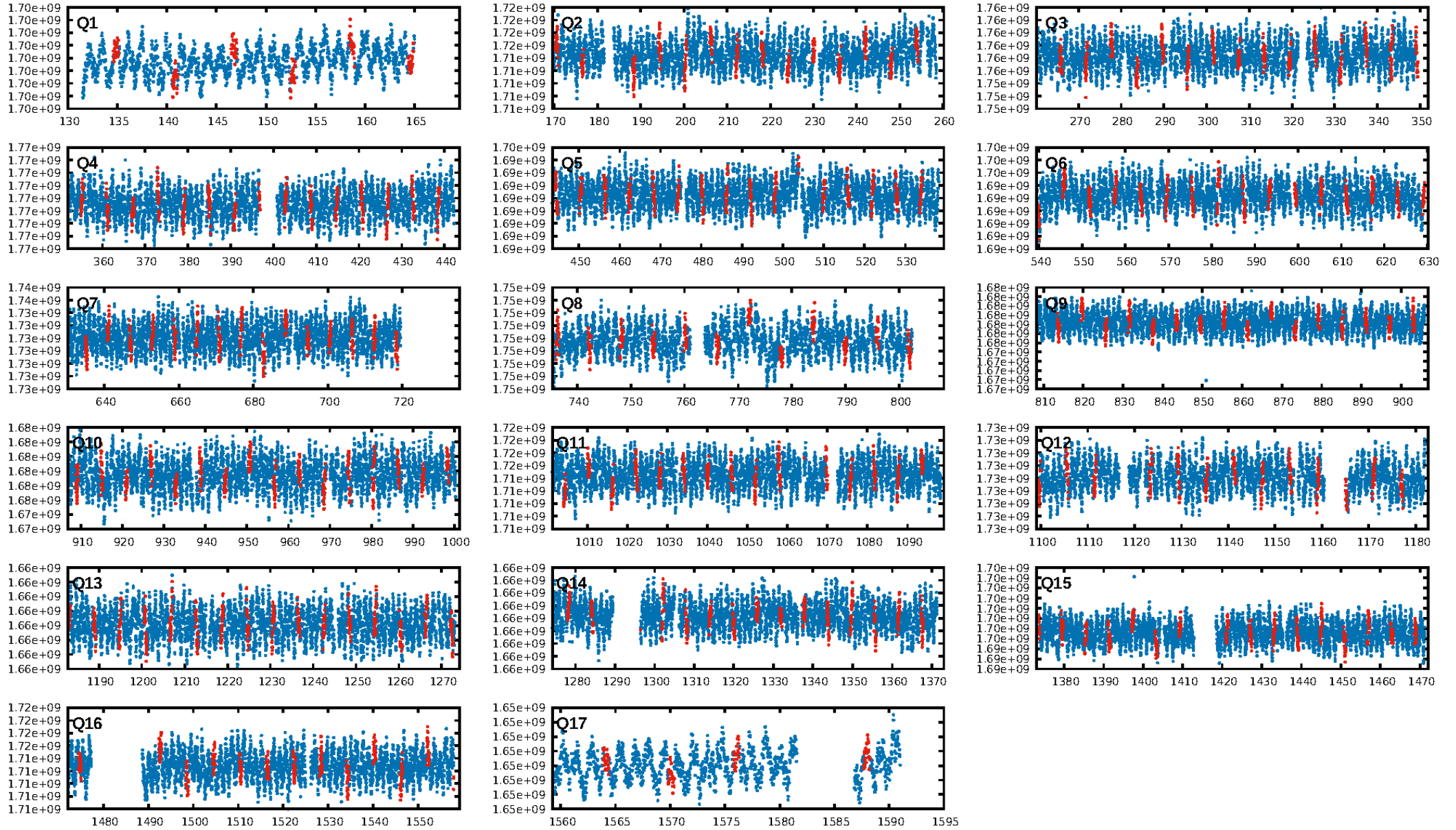
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [6.41 σ]
LongPeriod-sig: 100.0% [11.52 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [46/46]
GhostDiagnostic-chr: -1.955
Centroid-sig: 0.9%
Centroid-so: 0.746 arcsec [2.67 σ]
OotOffset-rm: 3.083 arcsec [2.58 σ]
OotOffset-st: 2/3/2/5 [12]
KicOffset-rm: 3.495 arcsec [3.12 σ]
KicOffset-st: 2/3/2/5 [12]
DiffImageQuality-fgm: 0.08 [1/12]
DiffImageOverlap-fno: 0.00 [0/17]

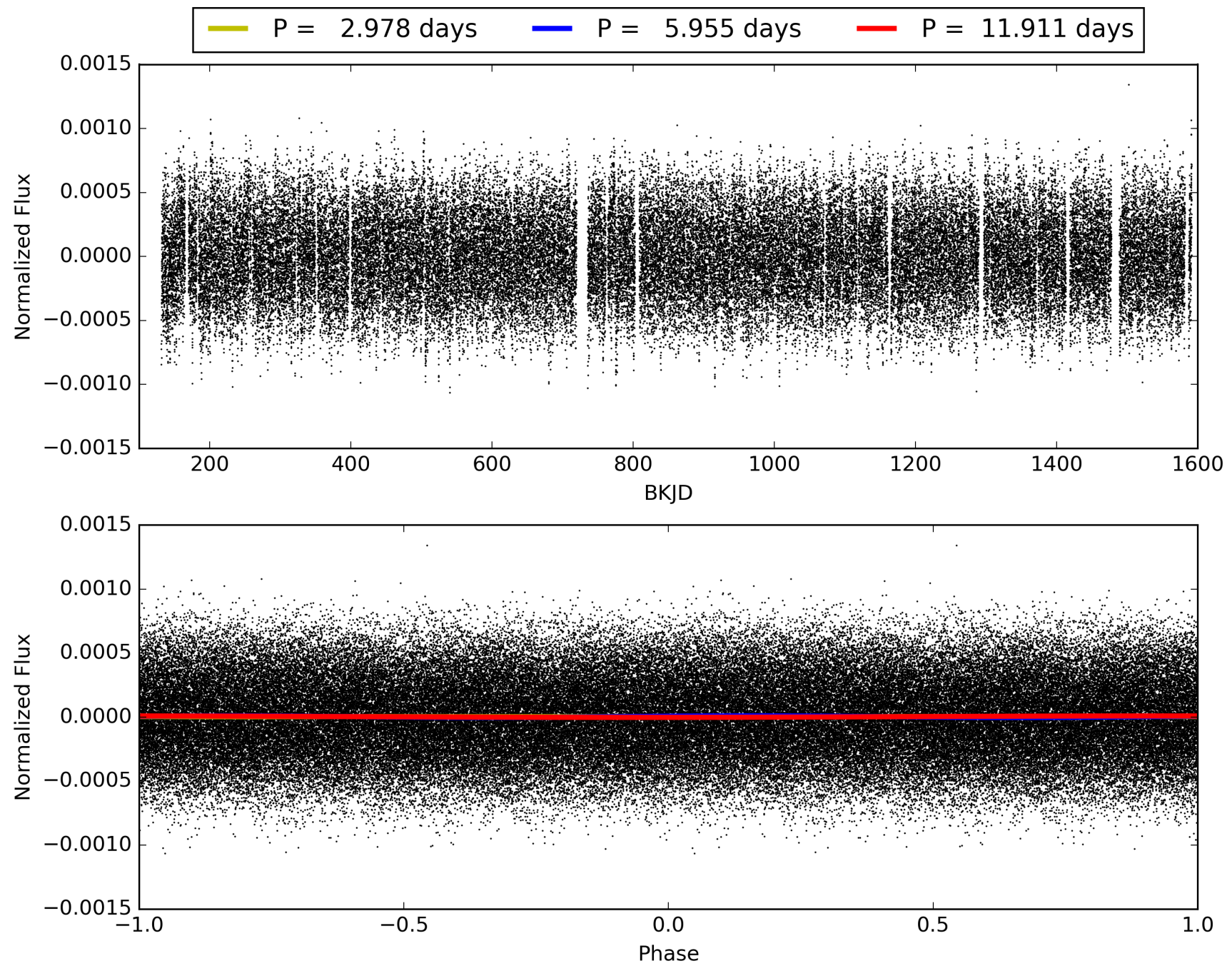
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:25:07 Z

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

TCE 011714150-06, PDC Light Curves

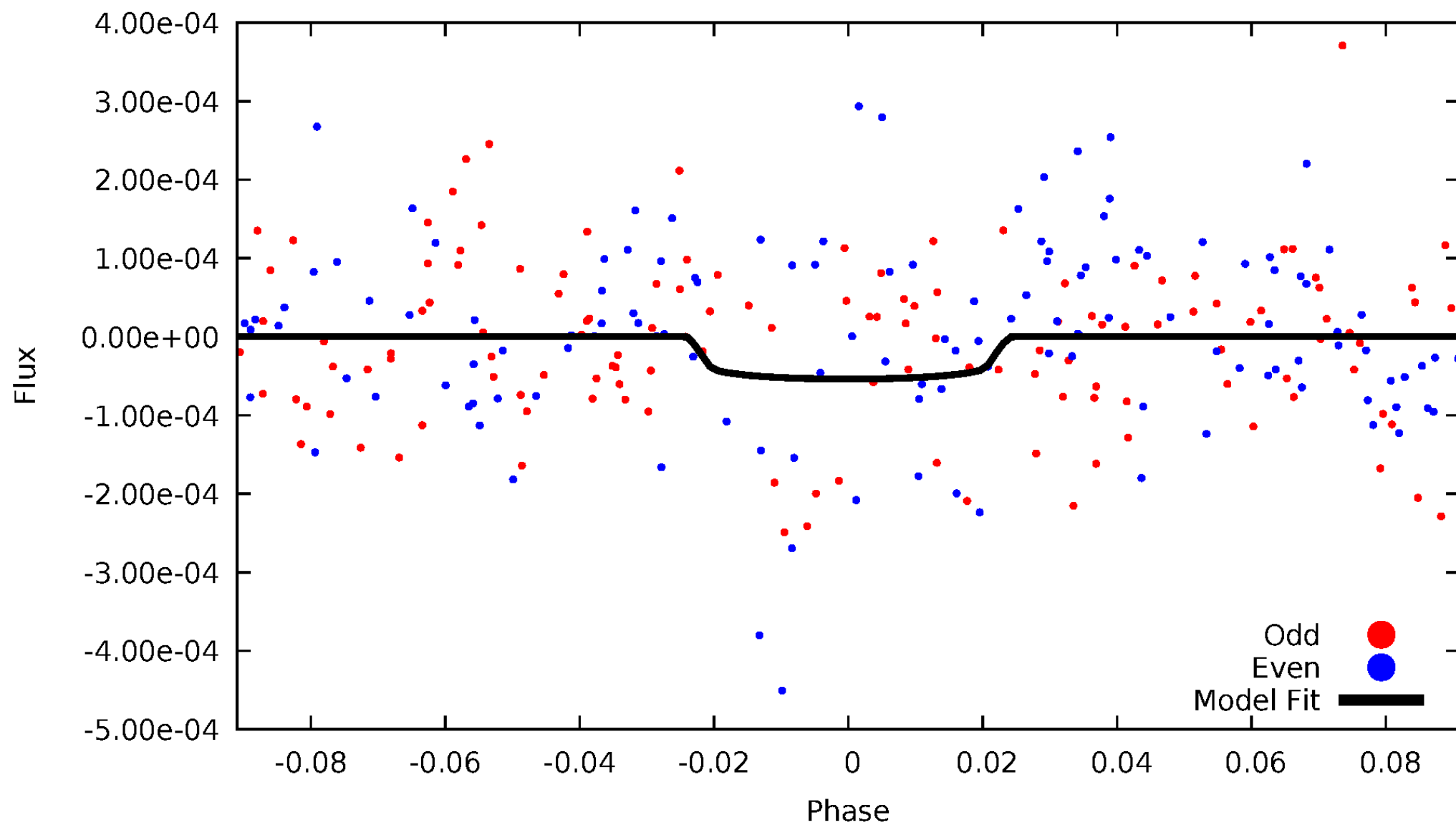


TCE 011714150-06



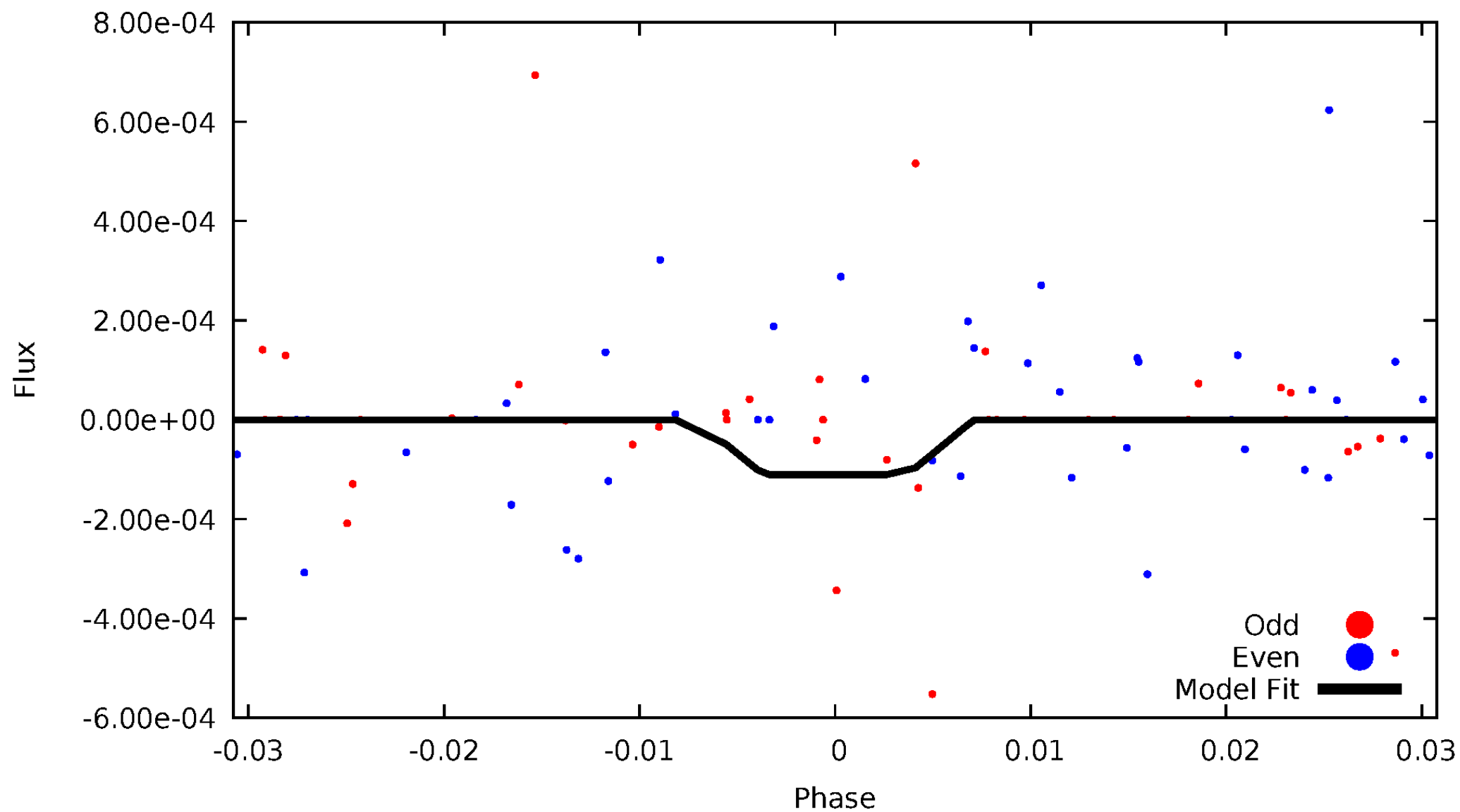
DV Odd/Even

TCE 011714150-06



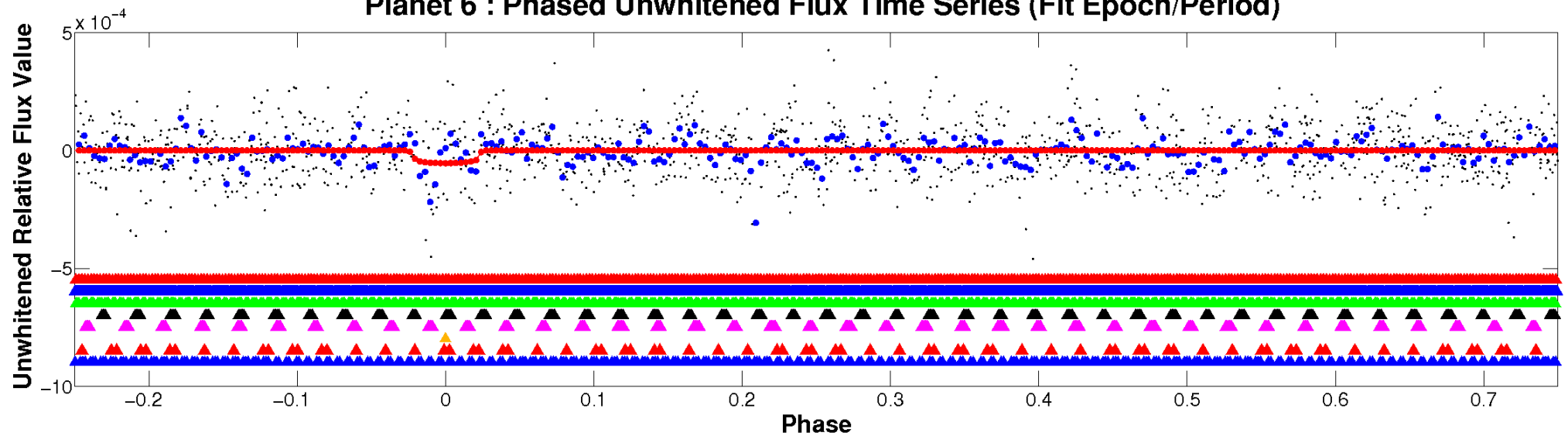
ALT Odd/Even

TCE 011714150-06

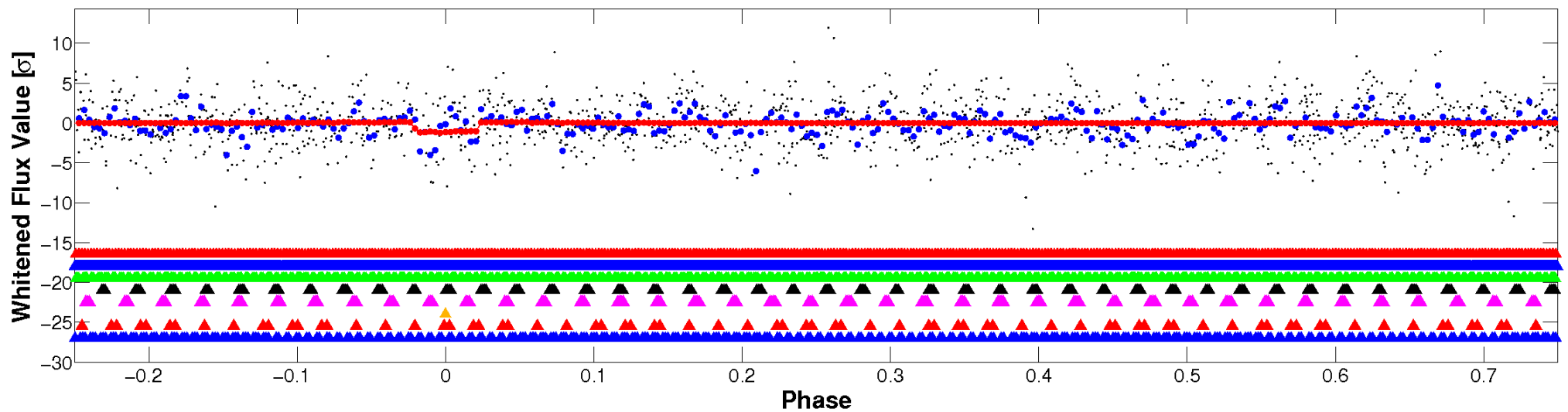


Non-Whitened Vs. Whitened Light Curve

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

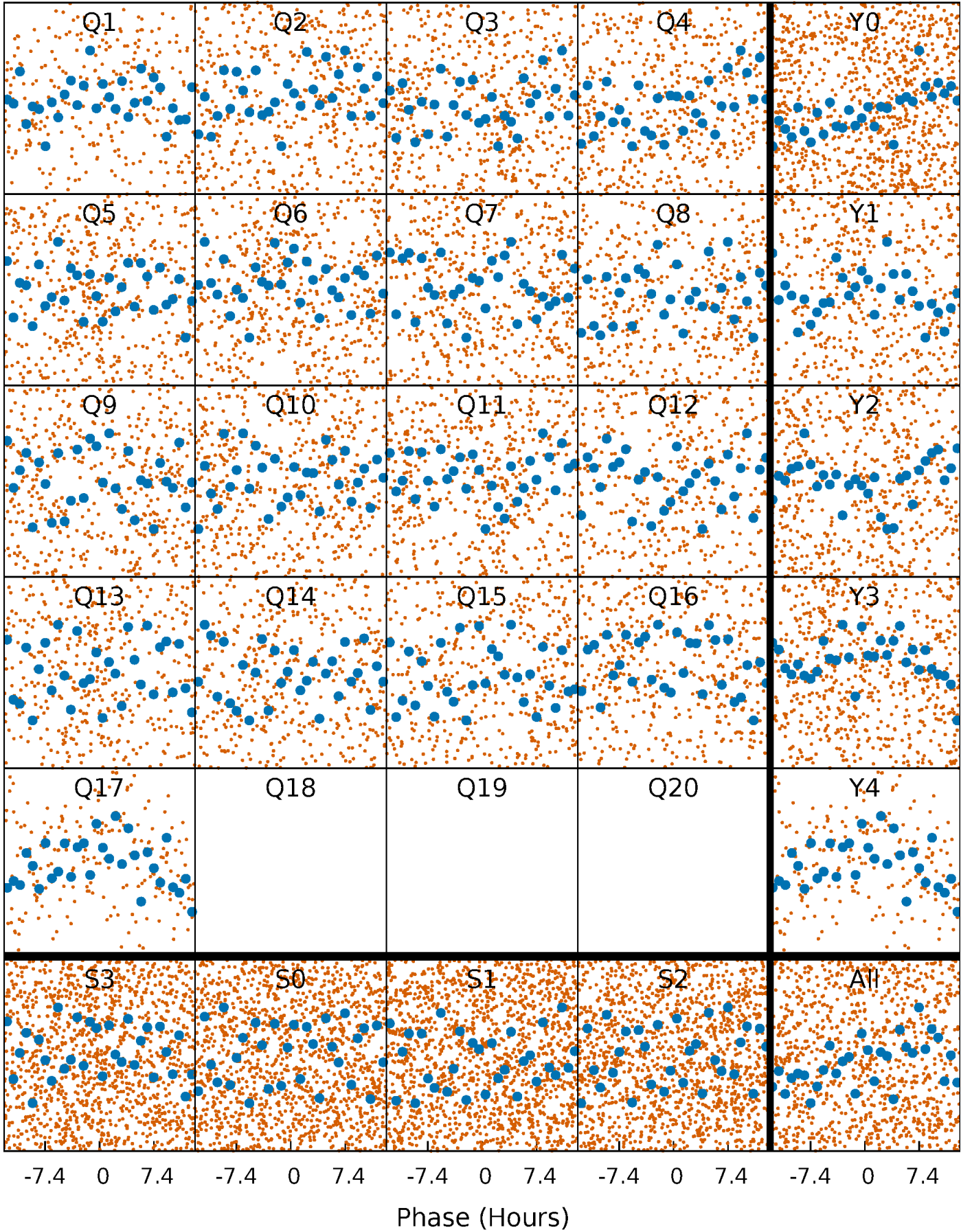


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



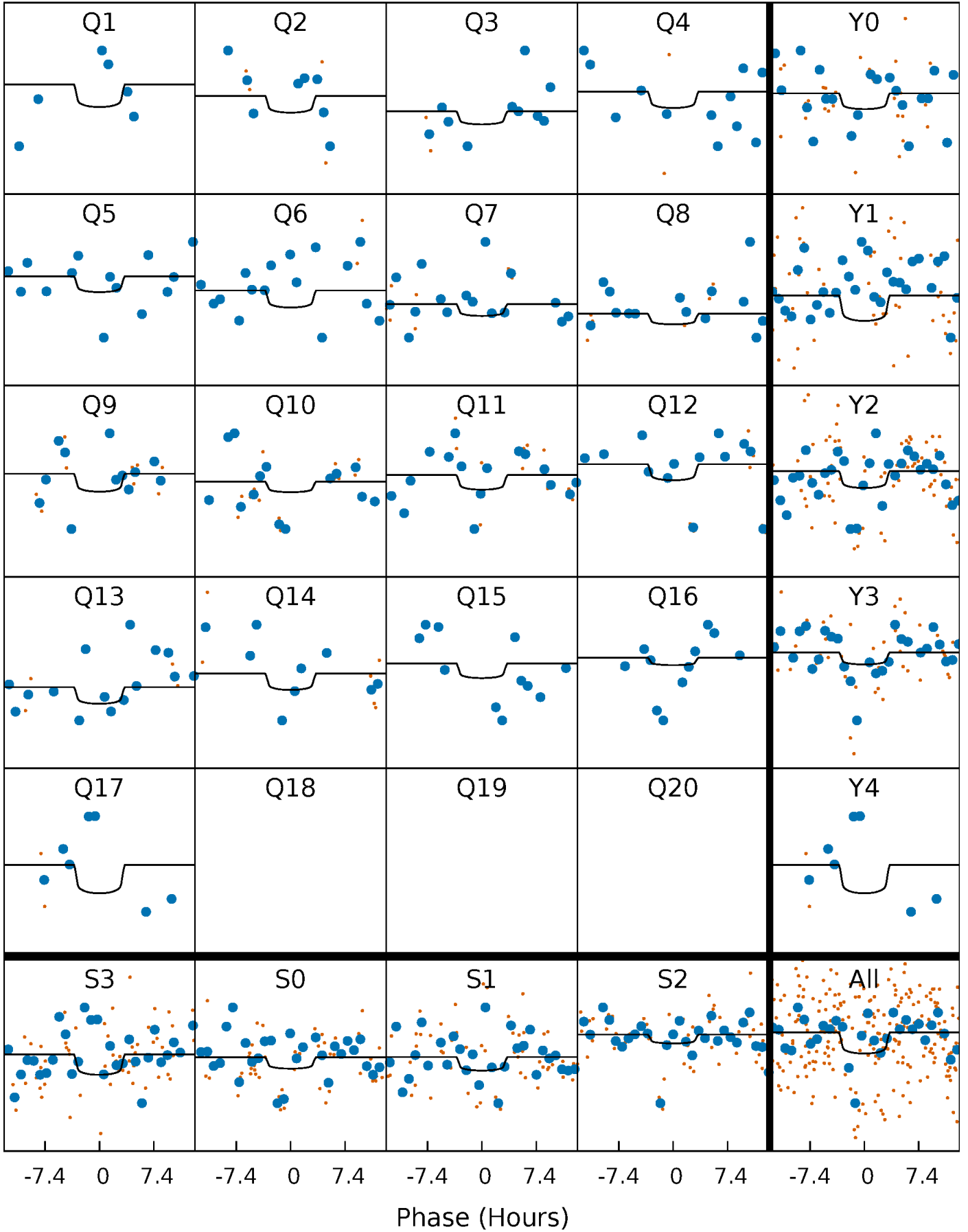
PDC Quarter-Phased Transit Curves

TCE 011714150-06 P= 5.955380 Days $T_0=134.847991$ (BKJD)



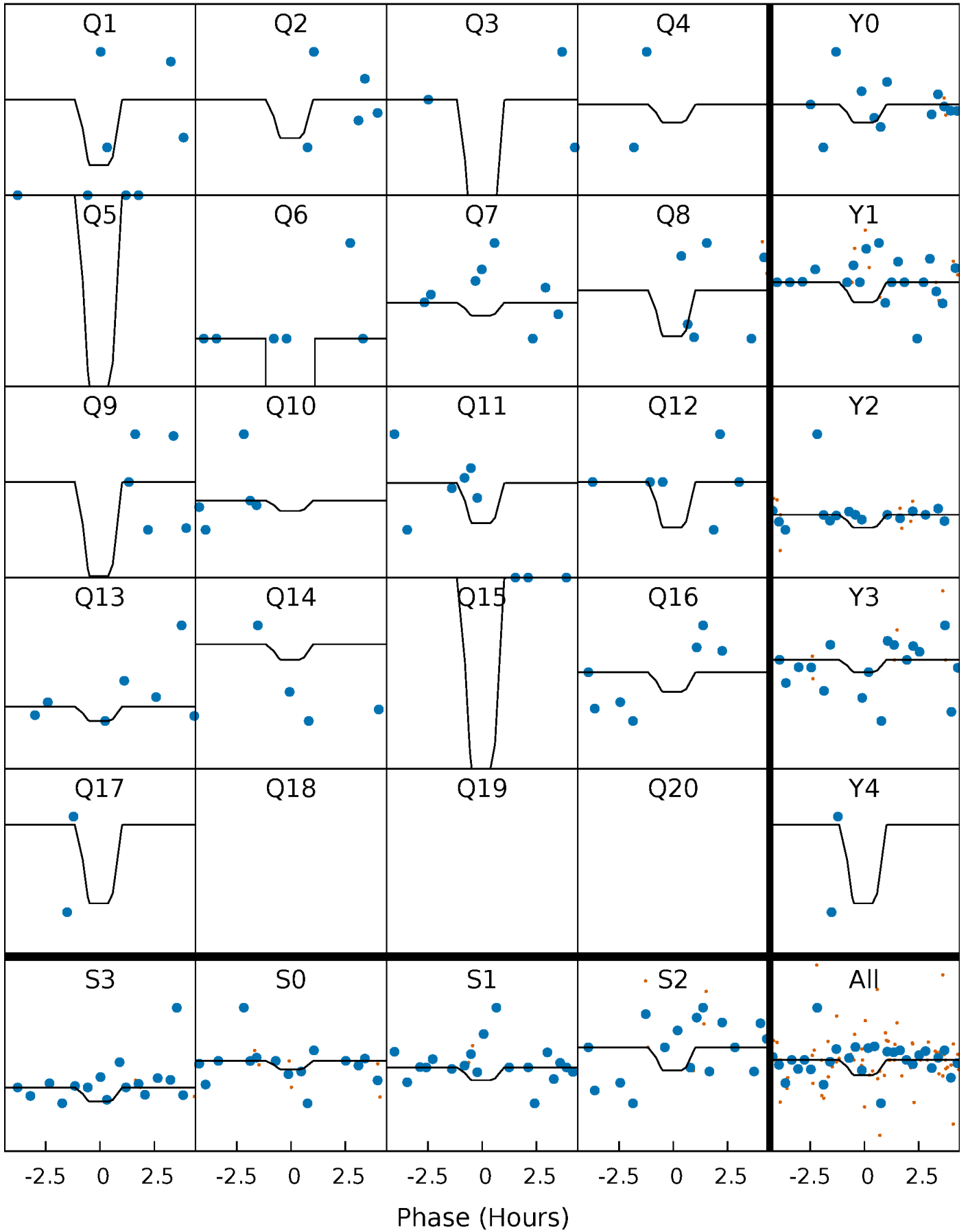
DV Quarter-Phased Transit Curves

TCE 011714150-06 P= 5.955380 Days $T_0=134.847991$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

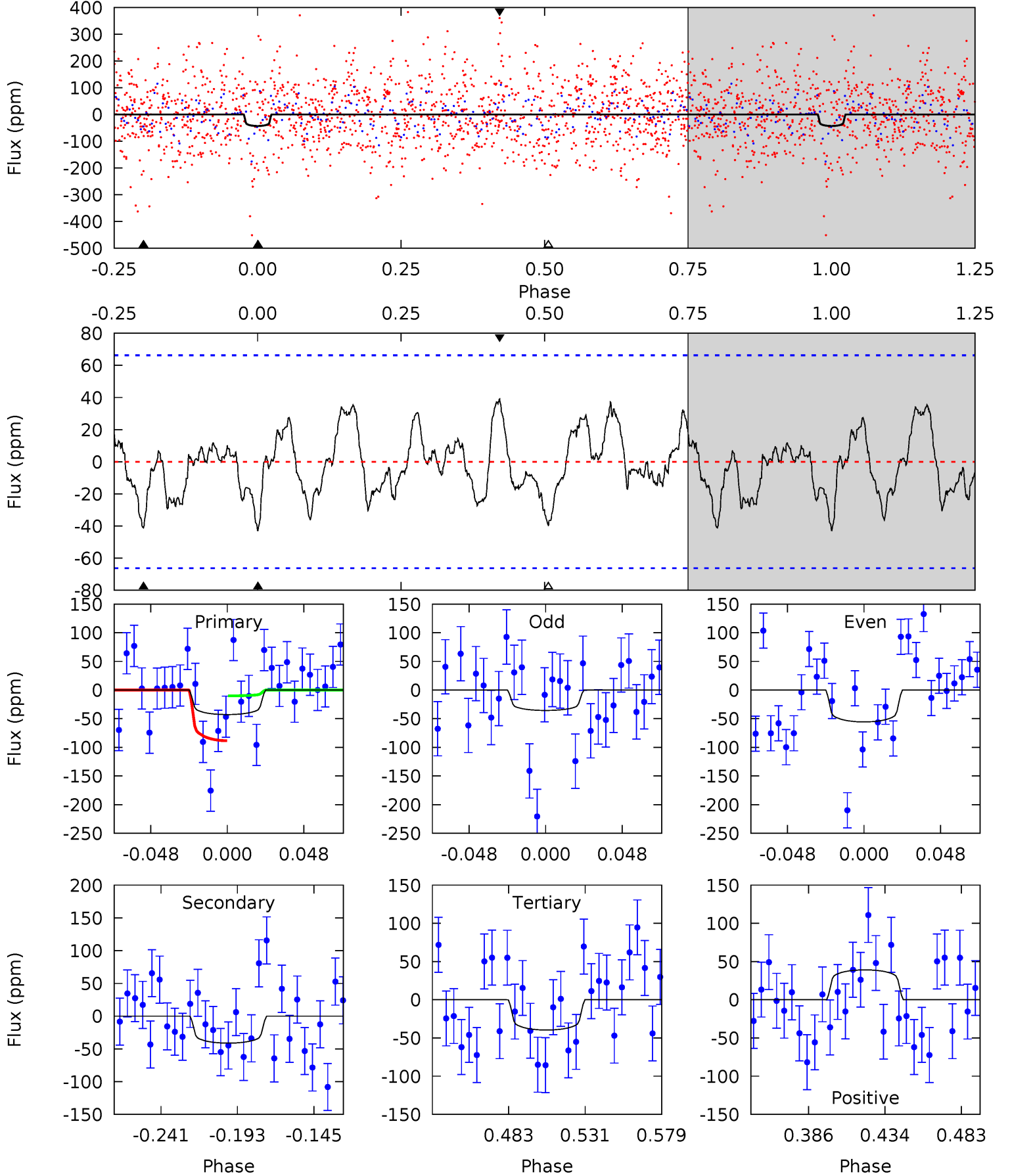
TCE 011714150-06 P= 5.955319 Days $T_0=134.881865$ (BKJD)



DV Model-Shift Uniqueness Test

011714150-06, P = 5.955380 Days, E = 128.892611 Days

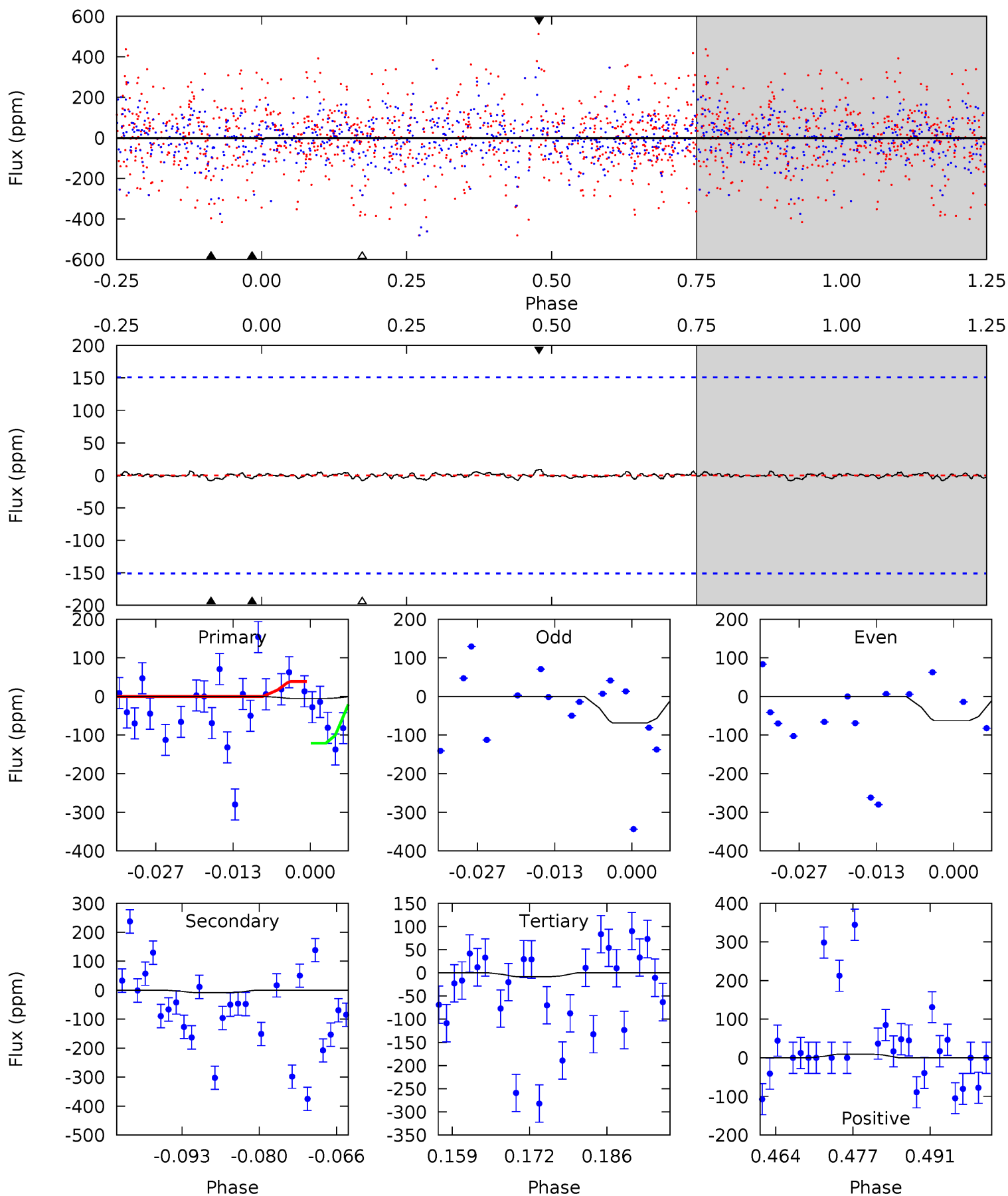
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.05	2.93	2.82	2.78	4.72	1.98	1.27	0.23	0.26	0.11	0.15	0.73	-1.51	0.48	2.75



Alt Model-Shift Uniqueness Test

011714150-06, P = 5.955319 Days, E = 128.926546 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.17	0.27	0.27	0.31	4.97	2.48	0.09	-0.10	-0.14	0.00	-0.04	0.09	5.75	0.53	1.38



Stellar Parameters For KIC 011714150

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8493^{+235}_{-383}	$3.770^{+0.432}_{-0.135}$	$-0.180^{+0.300}_{-0.350}$	$3.061^{+0.785}_{-1.345}$	$2.017^{+0.345}_{-0.474}$	$0.099^{+0.376}_{-0.041}$
	+3%/-5%	+11%/-4%	+167%/-194%	+26%/-44%	+17%/-24%	+379%/-41%
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 011714150-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-41 ± 14	$3.10^{+3.36}_{-2.12}$	3106^{+263}_{-374}	6411^{+6627}_{-1924}	15^{+129}_{-12}
Alt.	-8 ± 30	$3.91^{+3.70}_{-2.47}$	3101^{+262}_{-386}	3612^{+3108}_{-8699}	$1.258^{+17.637}_{-6.812}$

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

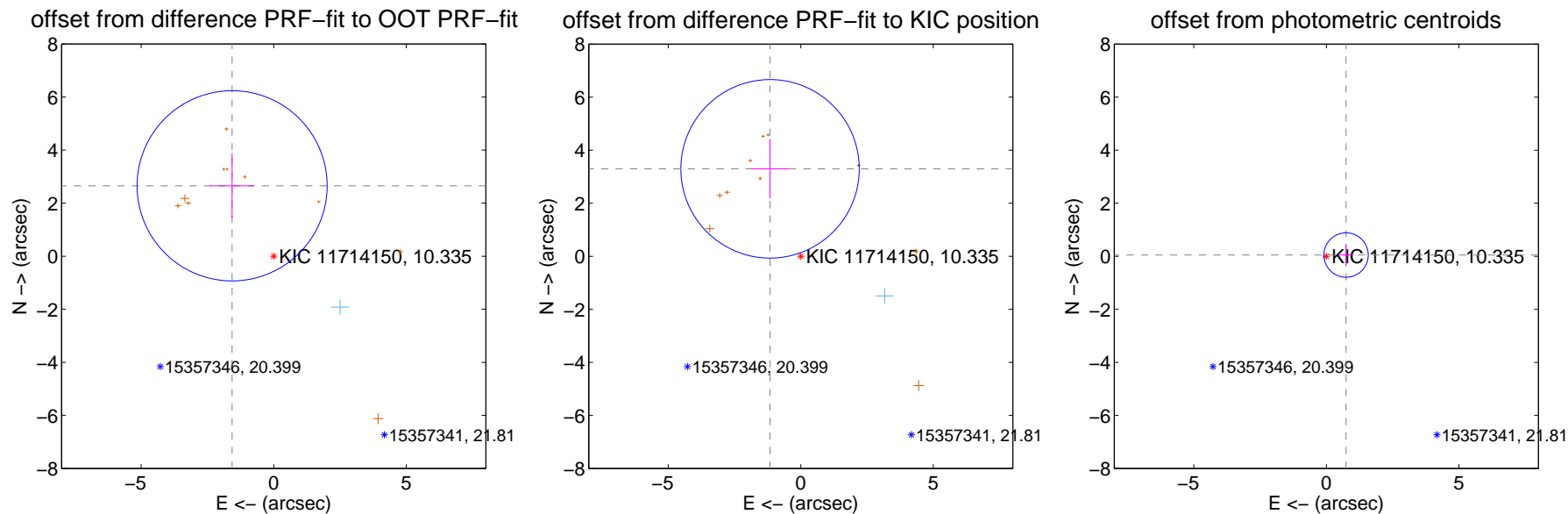
DV Centroid Data

Supplemental centroid analysis for 011714150-06. **Kepler magnitude: 10.34.** Transit SNR 7.61

There are 1 quarters with good PRF difference image offsets

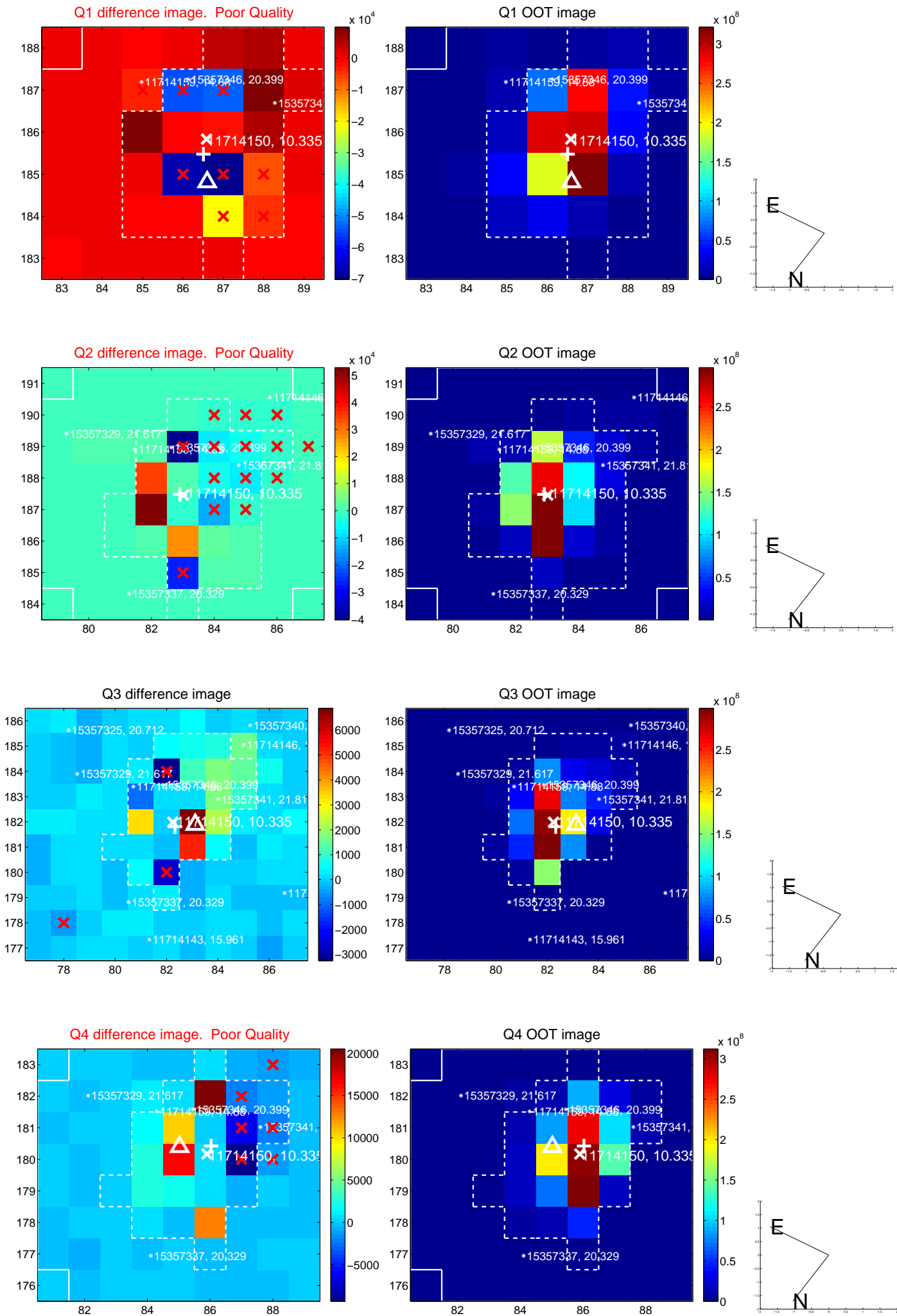
The direct PRF centroid is offset from the target star catalog position by about 1.32 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.083 ± 1.195	2.58	1.569 ± 0.833	2.654 ± 1.227
PRF-fit source offset from KIC position	3.495 ± 1.122	3.12	1.160 ± 0.709	3.297 ± 1.125
photometric centroid source offset	0.75 ± 0.28	2.67	-0.74 ± 0.28	0.05 ± 0.41

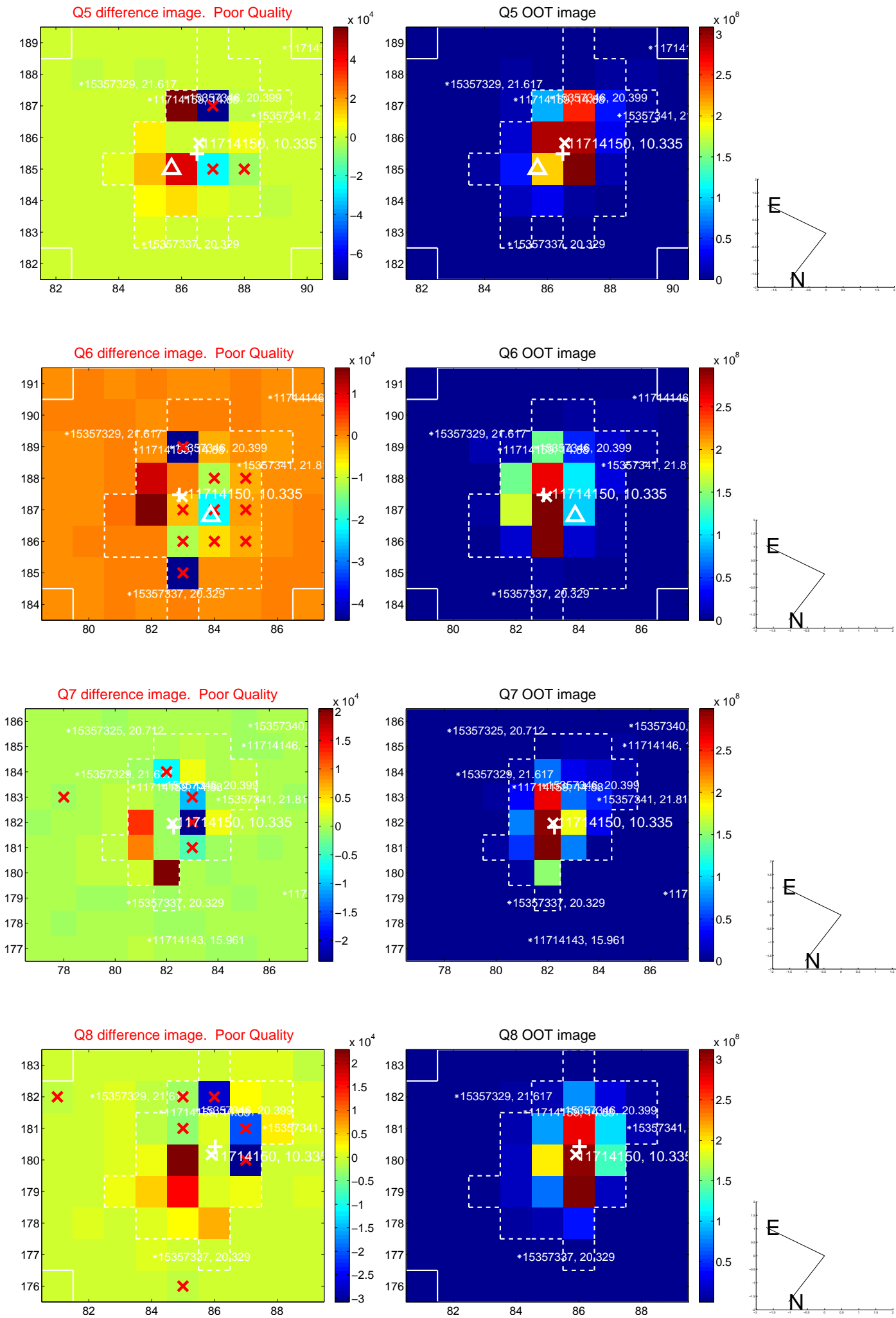


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

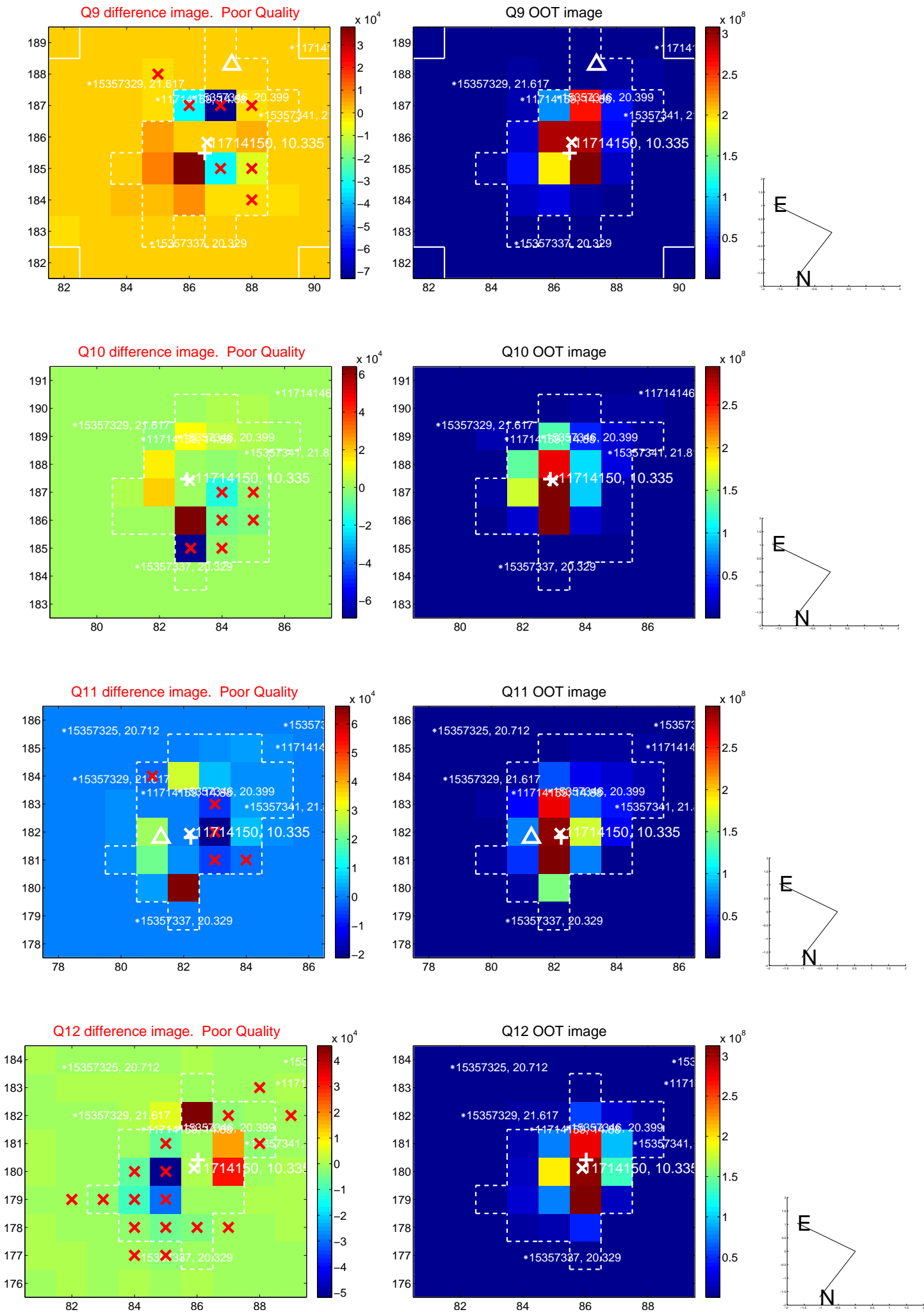
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



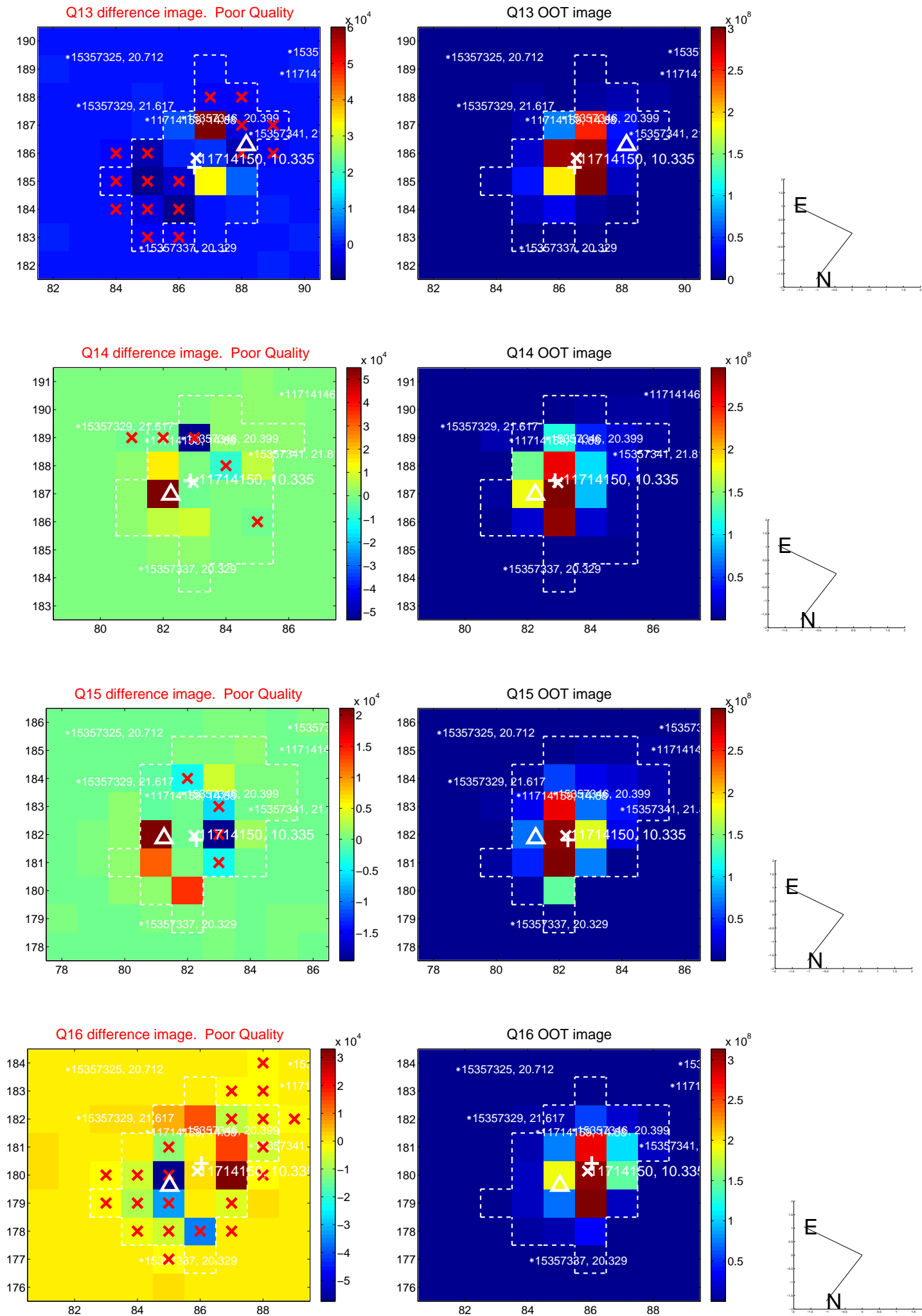
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



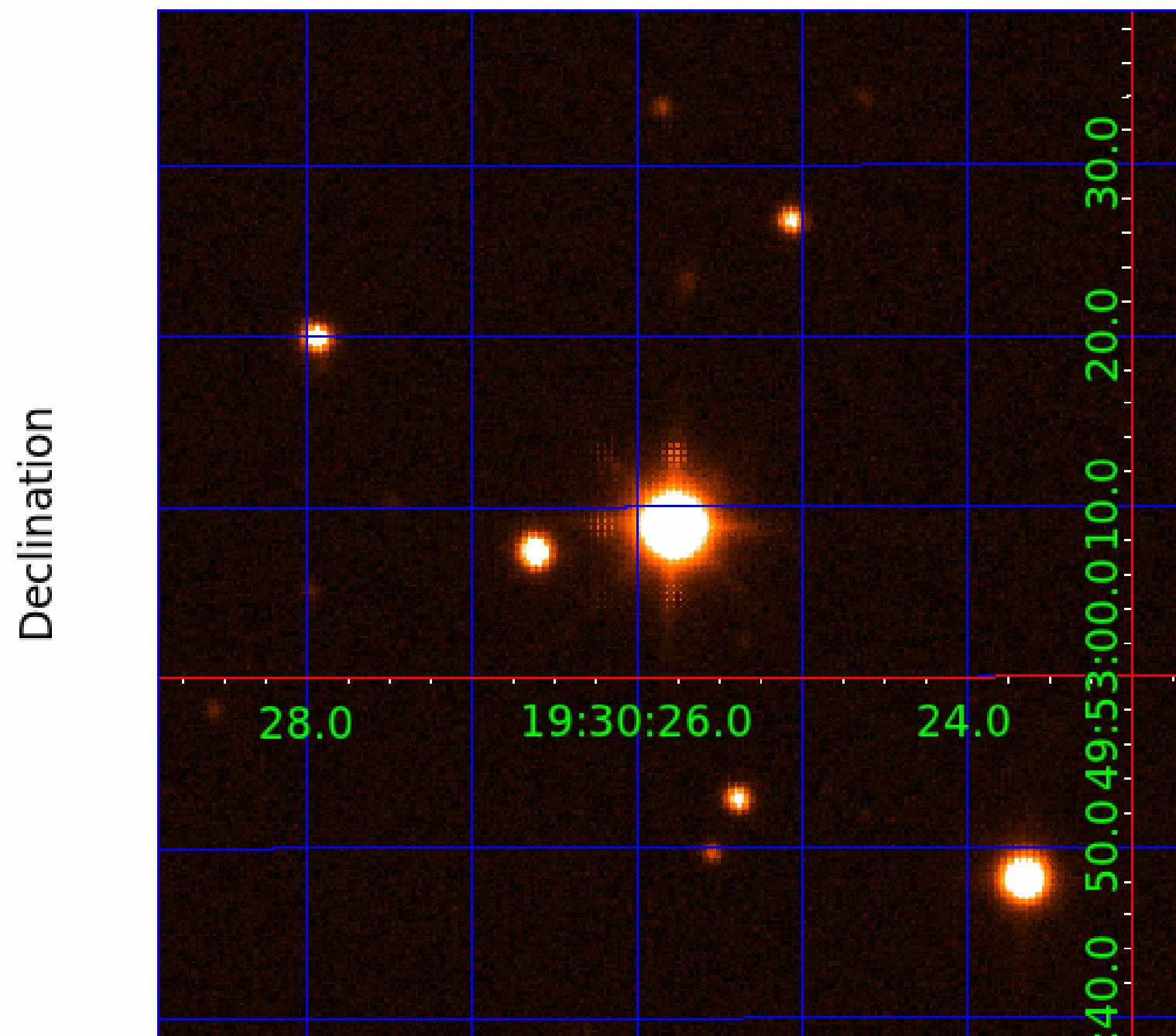
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 011714150

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})
011714150-01	OBS	No	1.694524	131.568784	18.0	5.780	10.9	9.1	3.06	8493	1.43	35398.43
011714150-02	OBS	No	0.588549	131.863166	17.4	4.290	9.8	12.7	3.06	8493	1.49	144989.99
011714150-03	OBS	No	2.074040	133.479216	0.2	3.064	17.8	0.1	3.06	8493	0.15	27036.99
011714150-04	OBS	No	9.140972	135.124696	78.5	1.350	12.1	3.2	3.06	8493	2.85	3741.61
011714150-05	OBS	No	11.605539	132.026703	180.5	1.517	14.6	13.3	3.06	8493	4.23	2721.62
011714150-06	OBS	No	5.955380	134.847991	53.9	6.501	13.7	7.6	3.06	8493	2.52	6624.73
011714150-07	OBS	No	19.202625	140.092455	233.9	1.279	12.4	14.3	3.06	8493	4.77	1390.70
011714150-08	OBS	No	3.983876	135.127734	52.5	3.500	9.6	-1.0	3.06	8493	2.25	11323.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011714150-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
011714150-02	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
011714150-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
011714150-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST
011714150-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

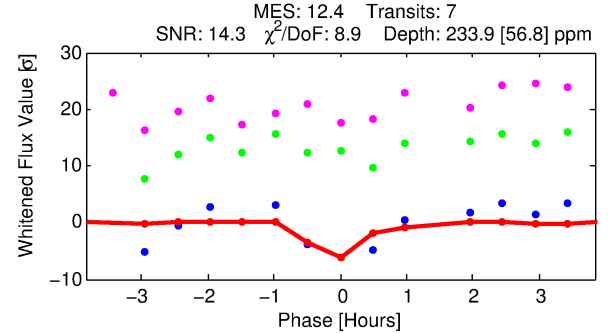
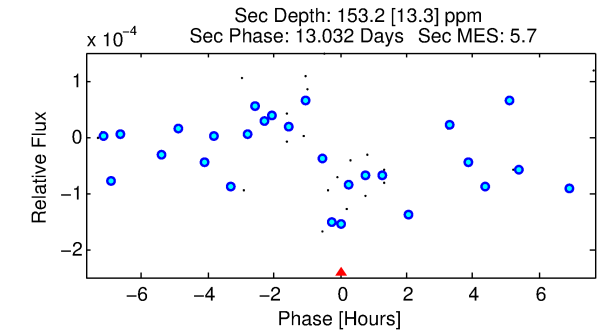
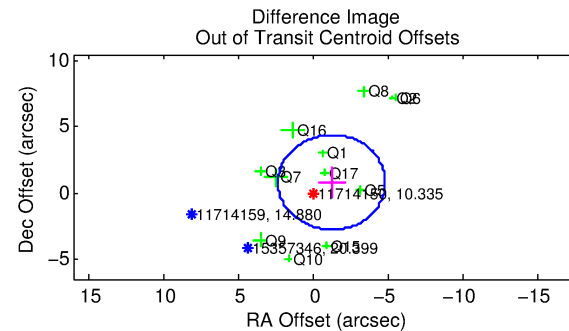
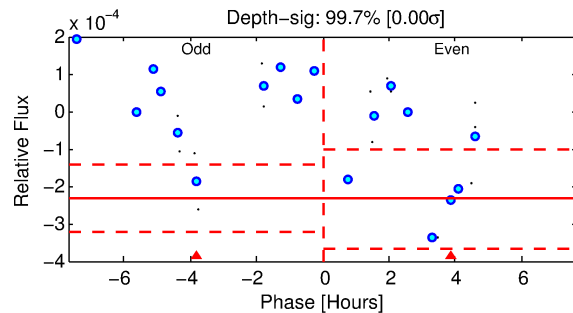
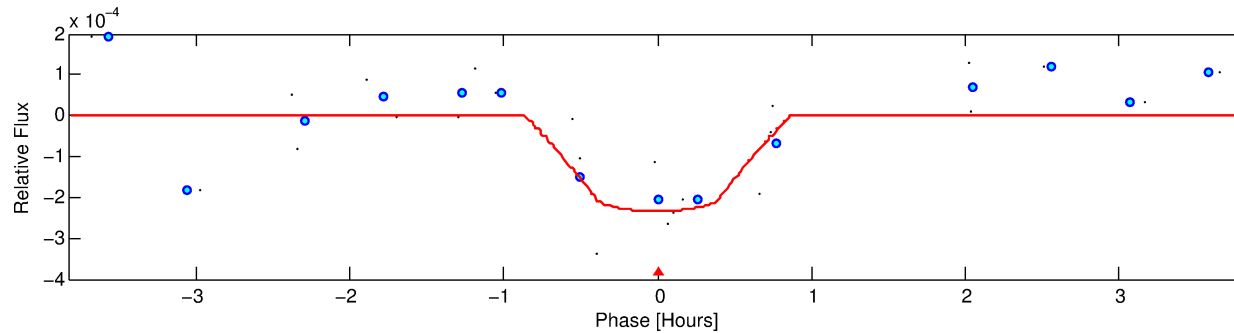
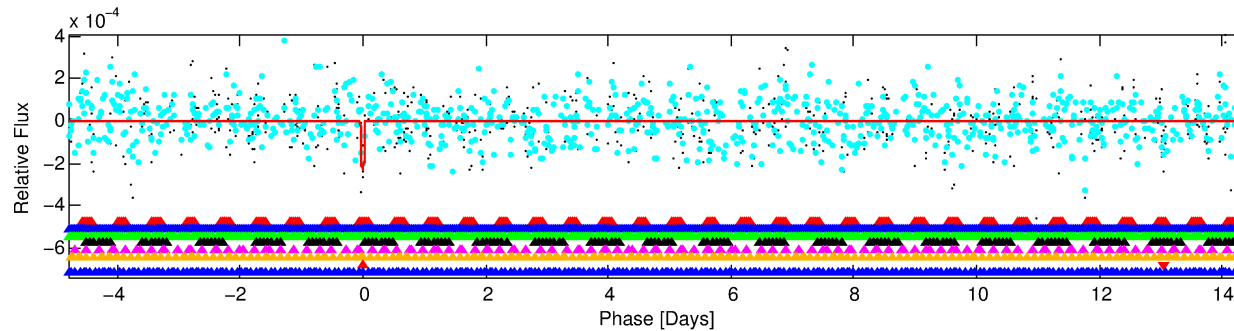
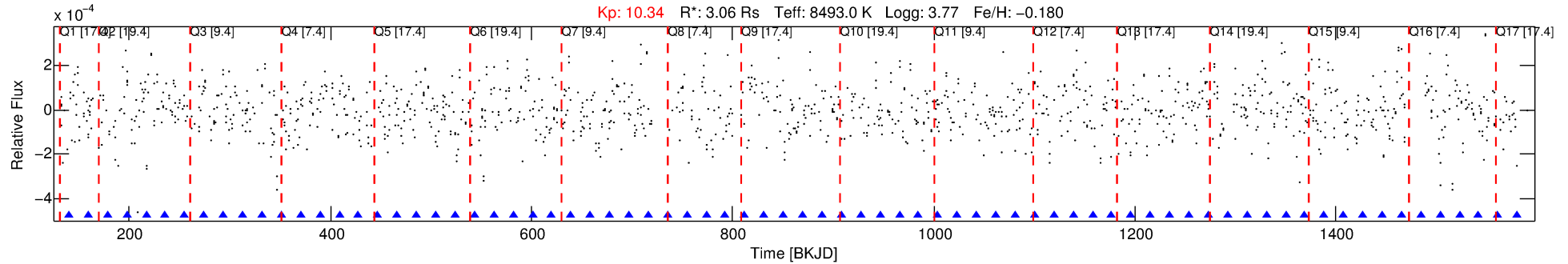
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011714150-07

No Significant Match Found

DV One-Page Summary

KIC: 11714150 Candidate: 7 of 8 Period: 19.203 d



DV Fit Results:

Period = 19.20262 [0.00031] d
Epoch = 140.0925 [0.0139] BKJD
Rp/R* = 0.0143 [0.0706]
a/R* = 115.75 [3298.09]
b = 0.10 [286.64]
Seff = 1390.70 [1038.95]
Teq = 1557 [291] K
Rp = 4.77 [23.68] Re
a = 0.1772 [0.0784] AU
Ag = 116.50 [1155.91] [0.10σ]
Teffp = 7910 [19571] K [0.32σ]

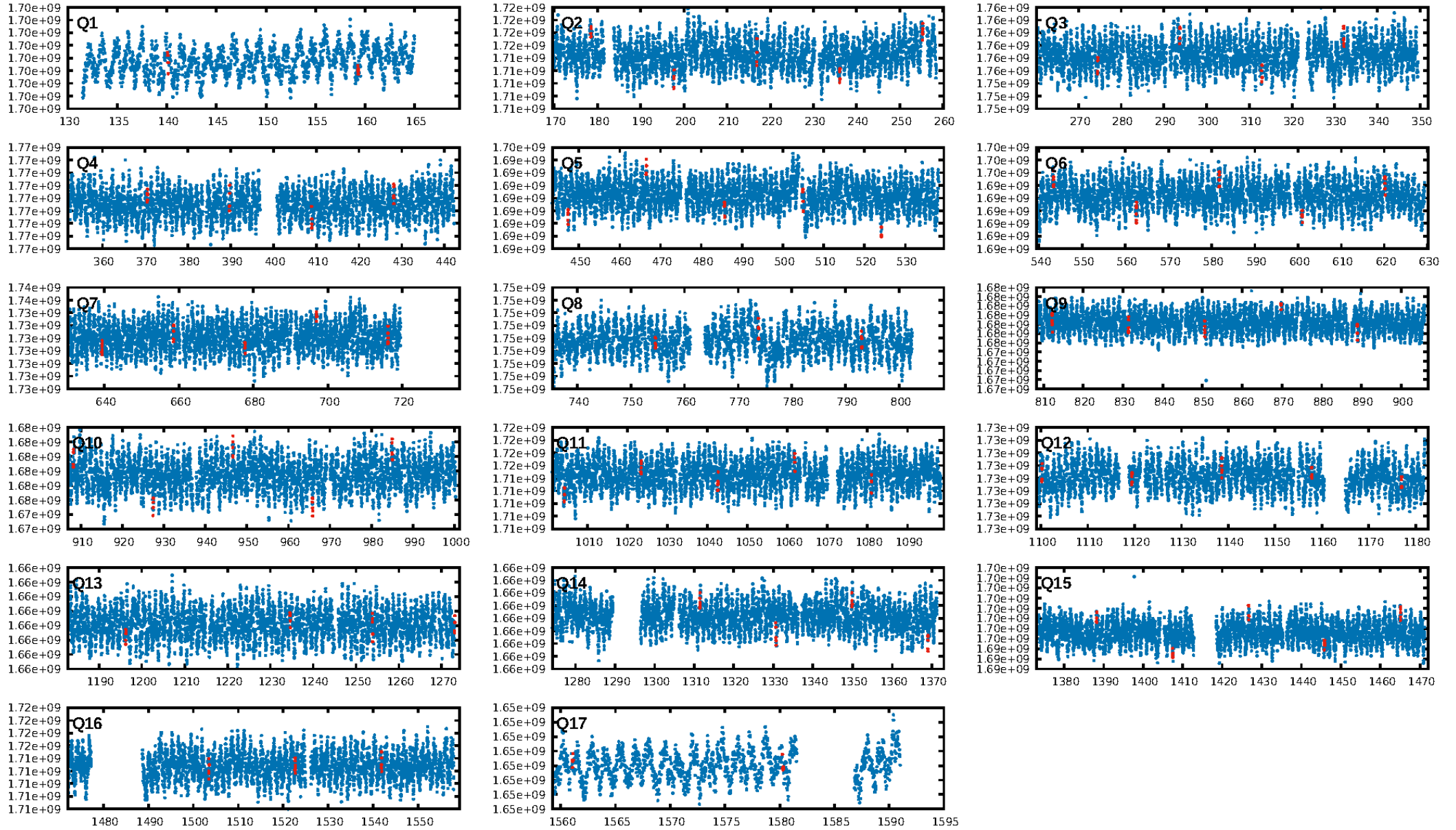
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [91.90σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.5%
ModelChiSquareGof-sig: 11.3%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: 0.1182
Centroid-sig: 24.2%
Centroid-so: 0.234 arcsec [1.03σ]
OotOffset-rm: 1.511 arcsec [1.26σ]
KicOffset-rm: 2.264 arcsec [1.79σ]
OotOffset-st: 3/3/2/4 [12]
KicOffset-st: 3/3/2/4 [12]
DiffImageQuality-fgm: 0.08 [1/12]
DiffImageOverlap-fno: 0.00 [0/17]

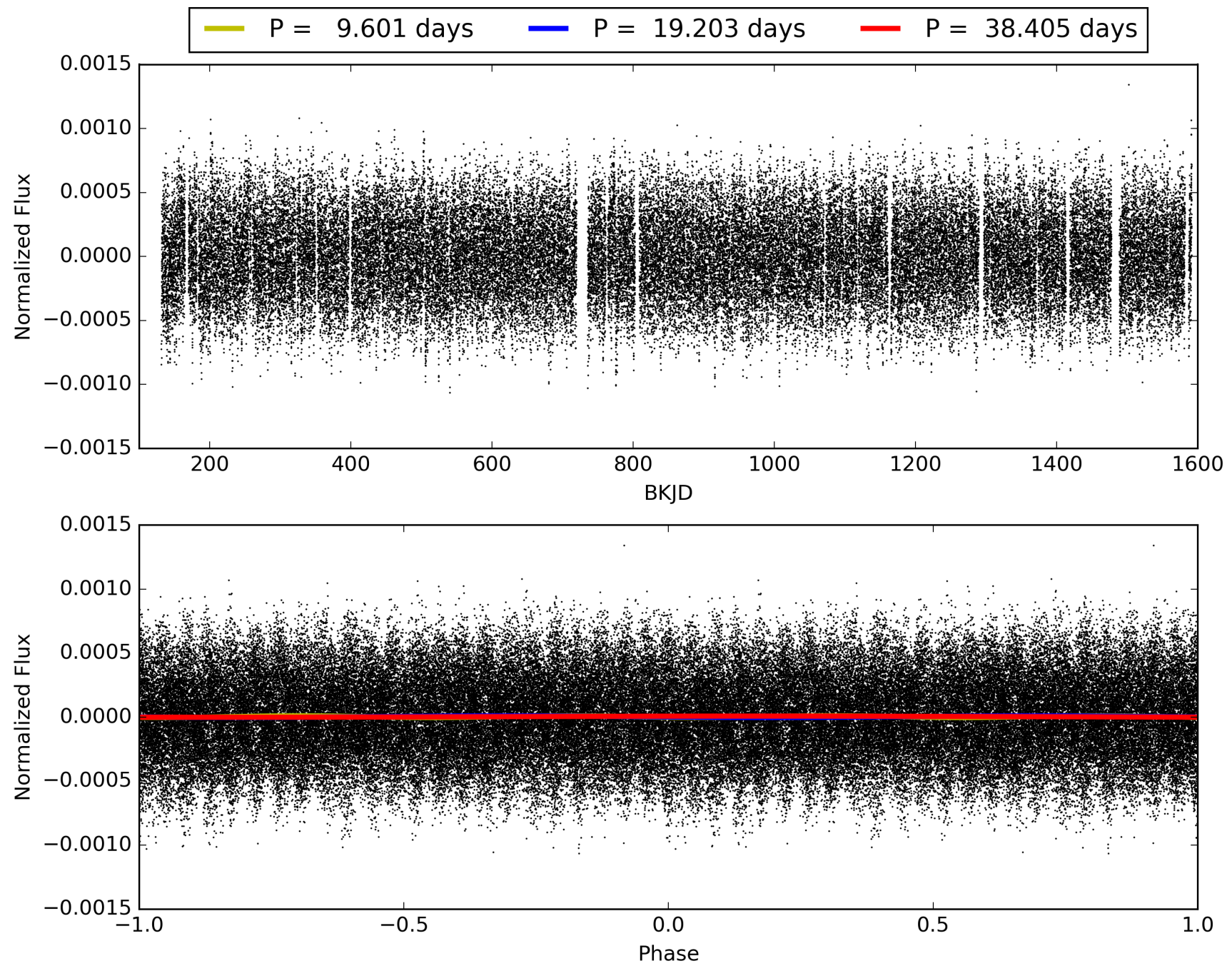
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:25:10 Z

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

TCE 011714150-07, PDC Light Curves

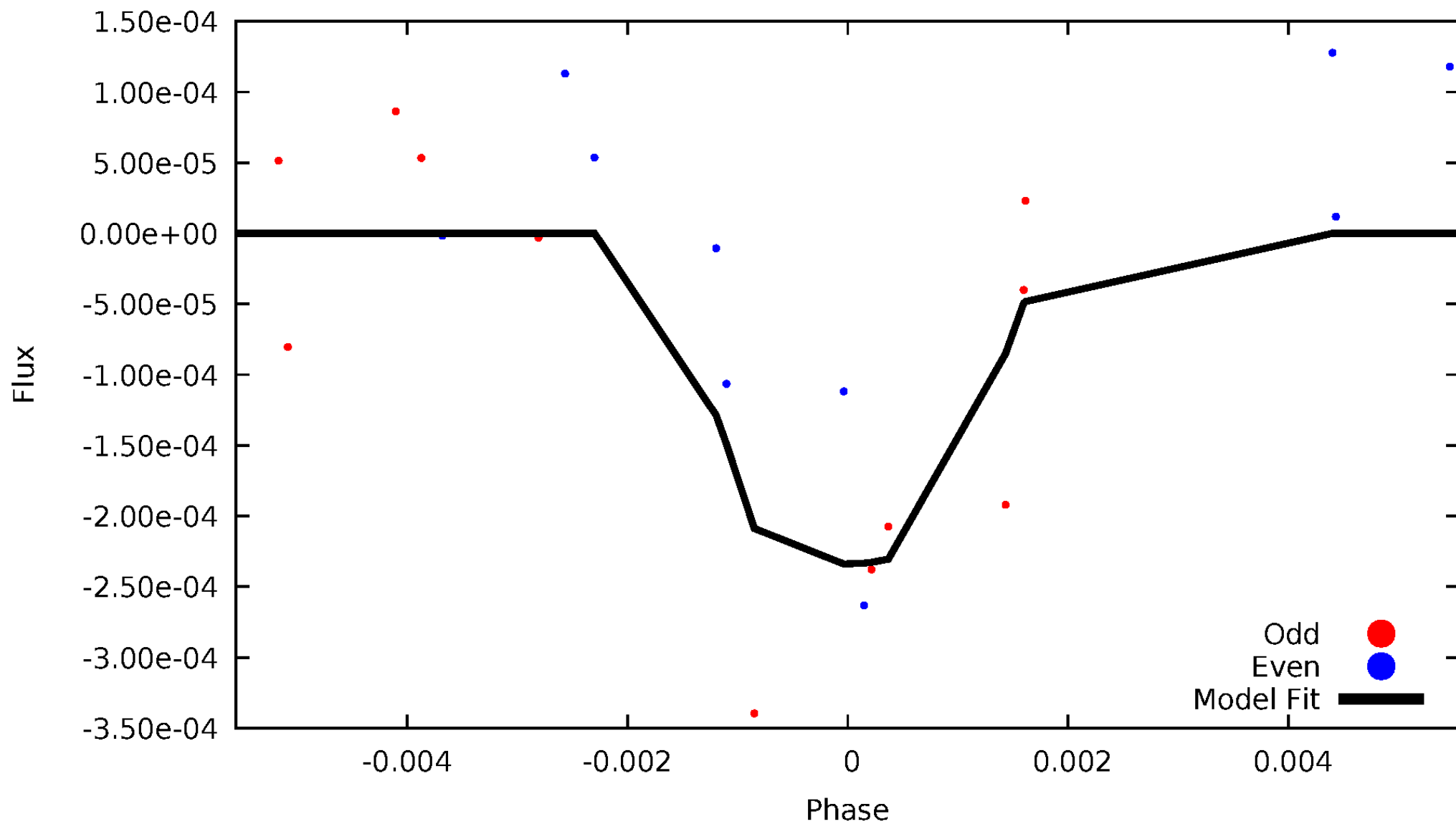


TCE 011714150-07



DV Odd/Even

TCE 011714150-07

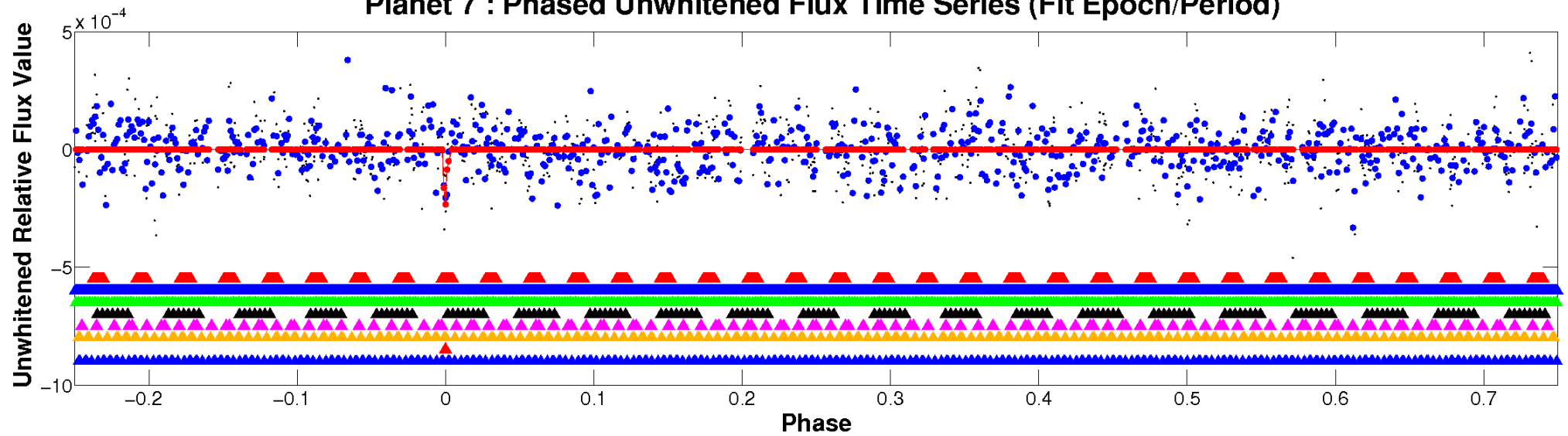


ALT Odd/Even

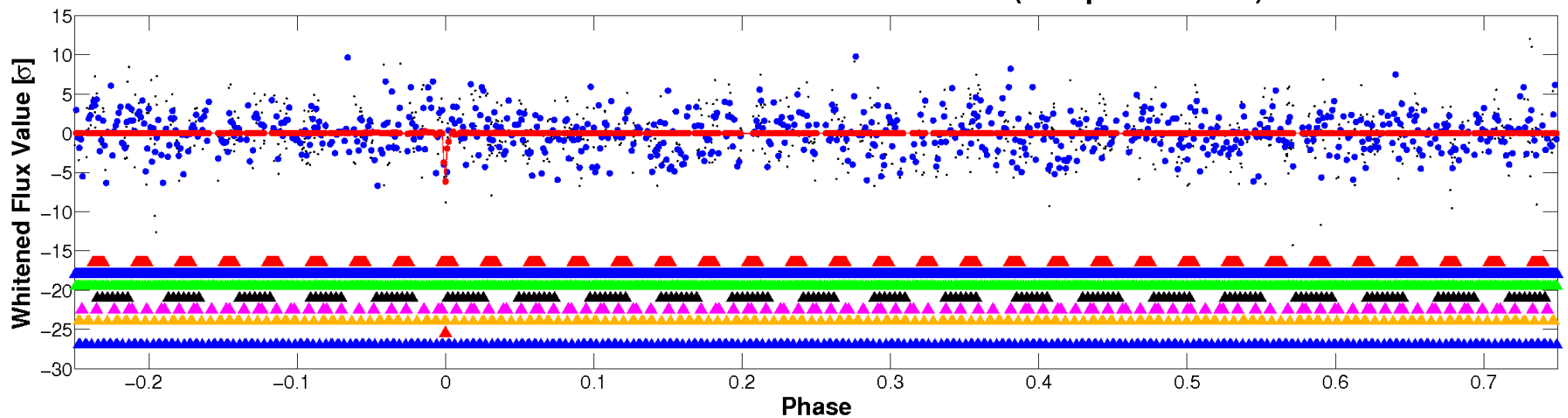
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

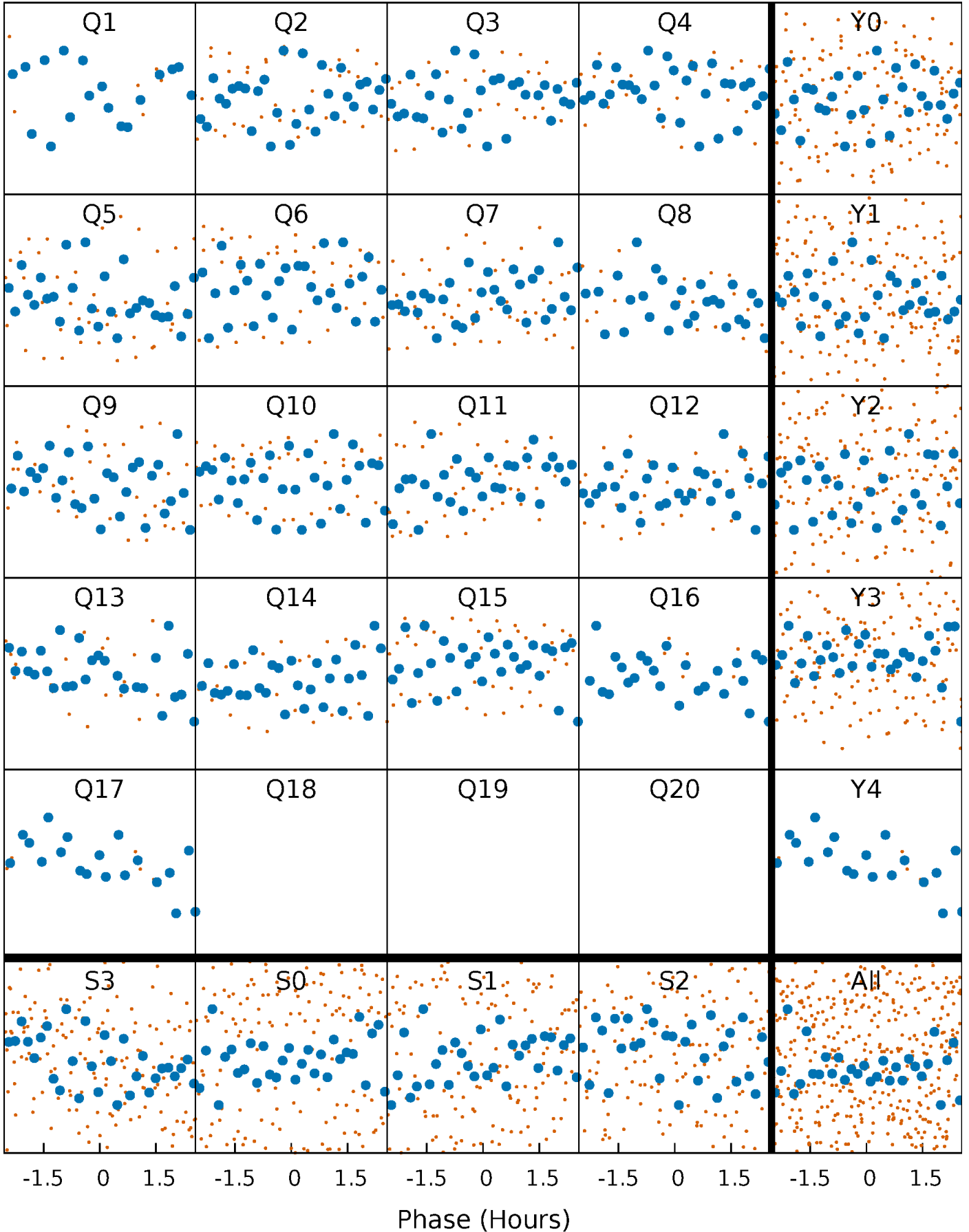


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



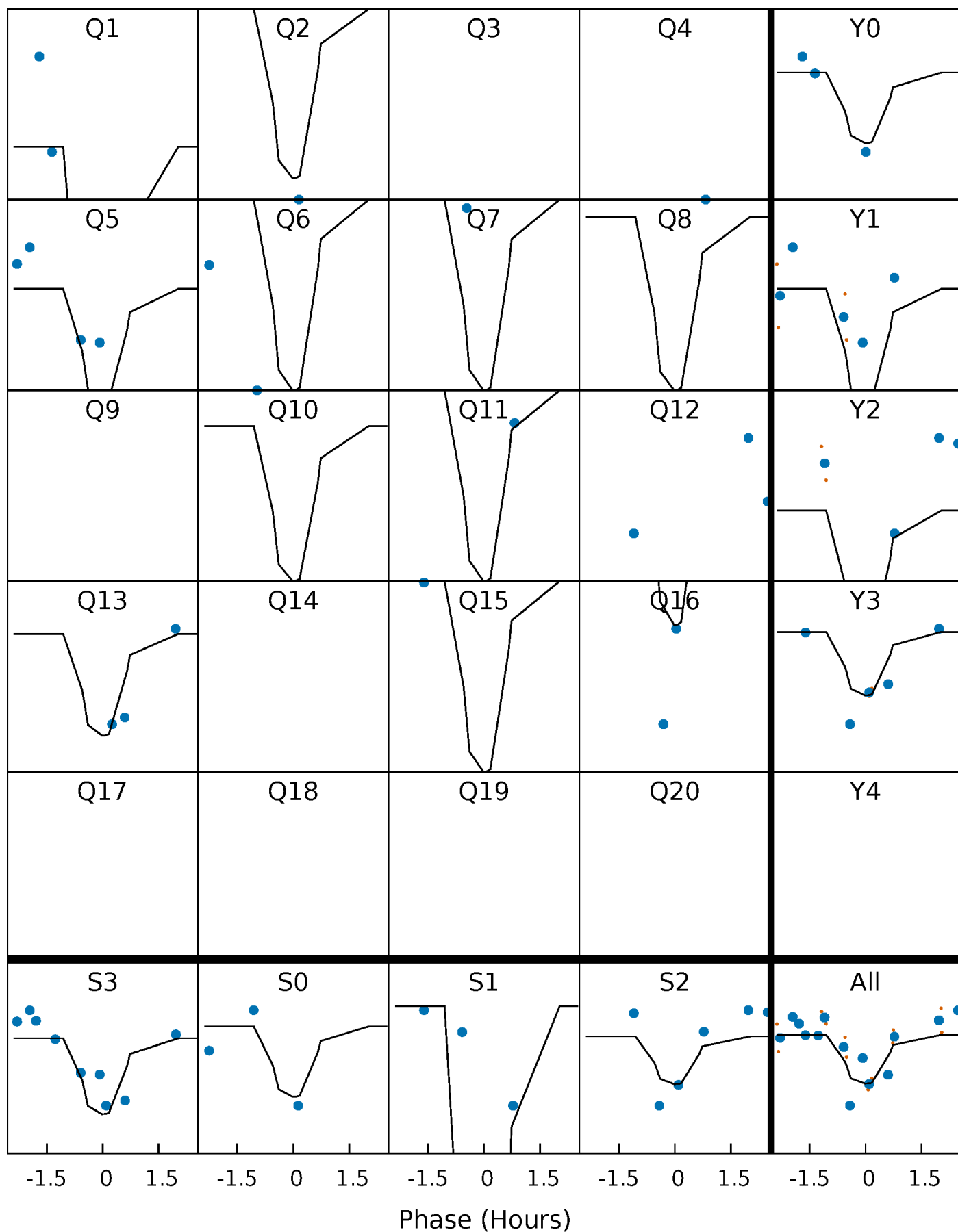
PDC Quarter-Phased Transit Curves

TCE 011714150-07 P= 19.202625 Days $T_0=140.092455$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011714150-07 P= 19.202625 Days $T_0=140.092455$ (BKJD)

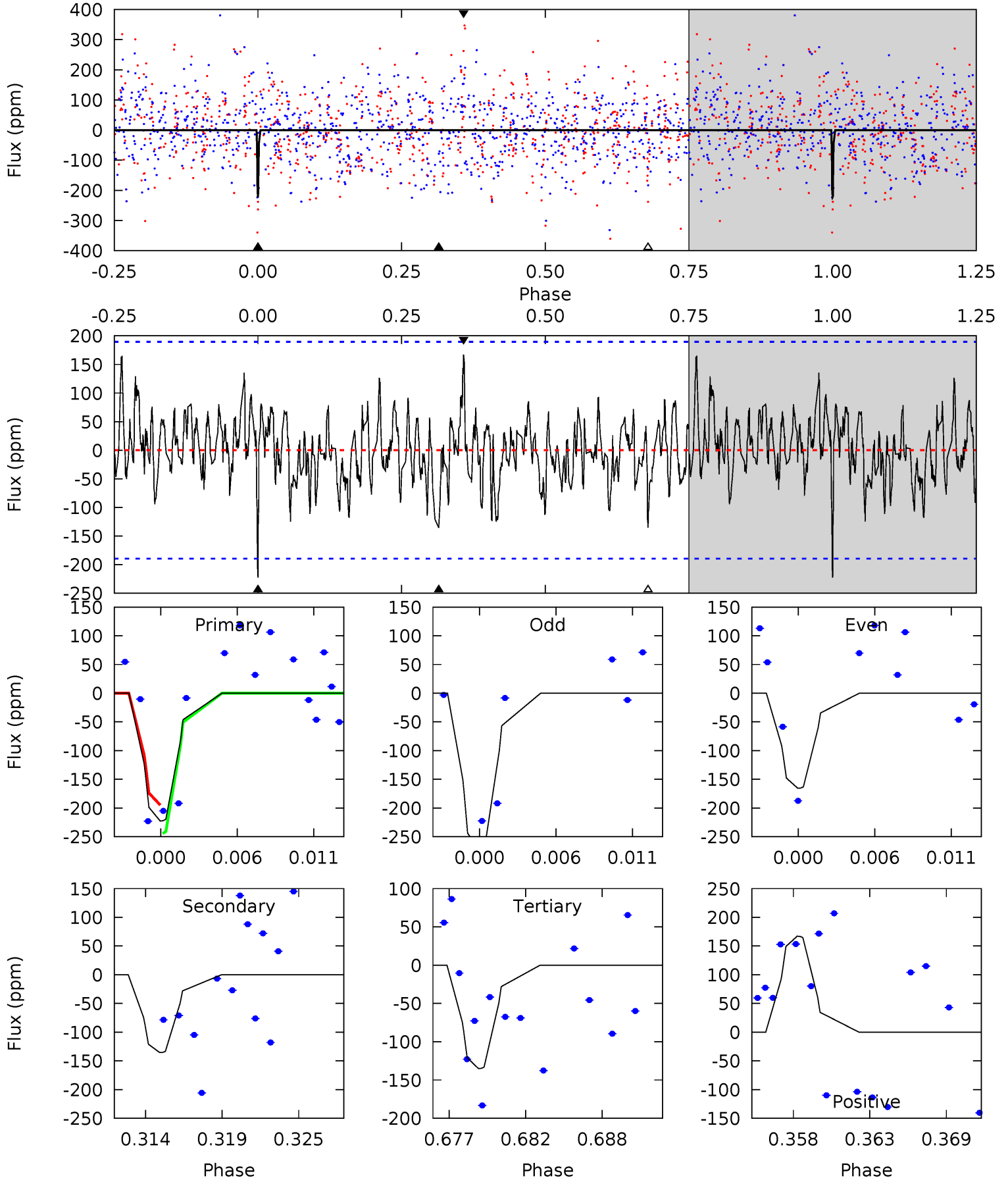


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

011714150-07, P = 19.202625 Days, E = 120.889830 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.04	3.67	3.66	4.53	5.14	2.78	1.37	2.38	1.51	0.01	-0.86	1.25	0.91	0.43	0.59



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 011714150

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8493^{+235}_{-383}	$3.770^{+0.432}_{-0.135}$	$-0.180^{+0.300}_{-0.350}$	$3.061^{+0.785}_{-1.345}$	$2.017^{+0.345}_{-0.474}$	$0.099^{+0.376}_{-0.041}$
	+3%/-5%	+11%/-4%	+167%/-194%	+26%/-44%	+17%/-24%	+379%/-41%
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 011714150-07 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-136 ± 37	$15.36^{+19.10}_{-10.65}$	2116^{+176}_{-246}	4126^{+3043}_{-981}	$9.250^{+97.517}_{-7.327}$
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 $A_{\text{obs}} \gg 1.0$

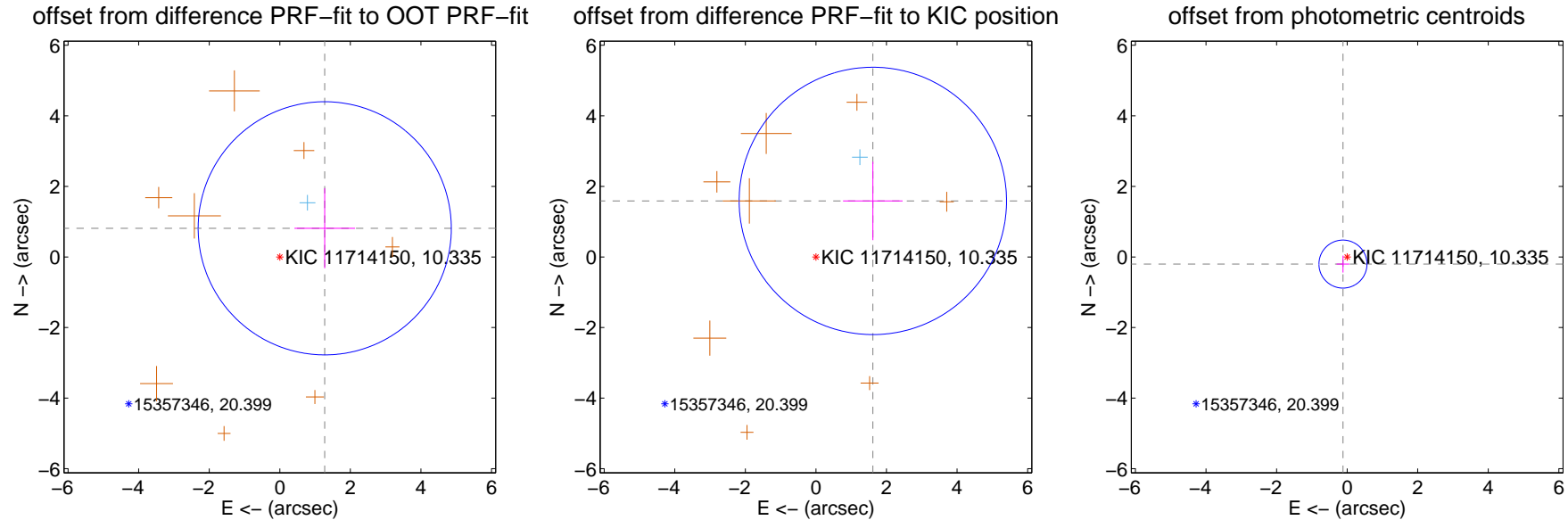
DV Centroid Data

Supplemental centroid analysis for 011714150-07. **Kepler magnitude: 10.34.** Transit SNR 14.28

There are 1 quarters with good PRF difference image offsets

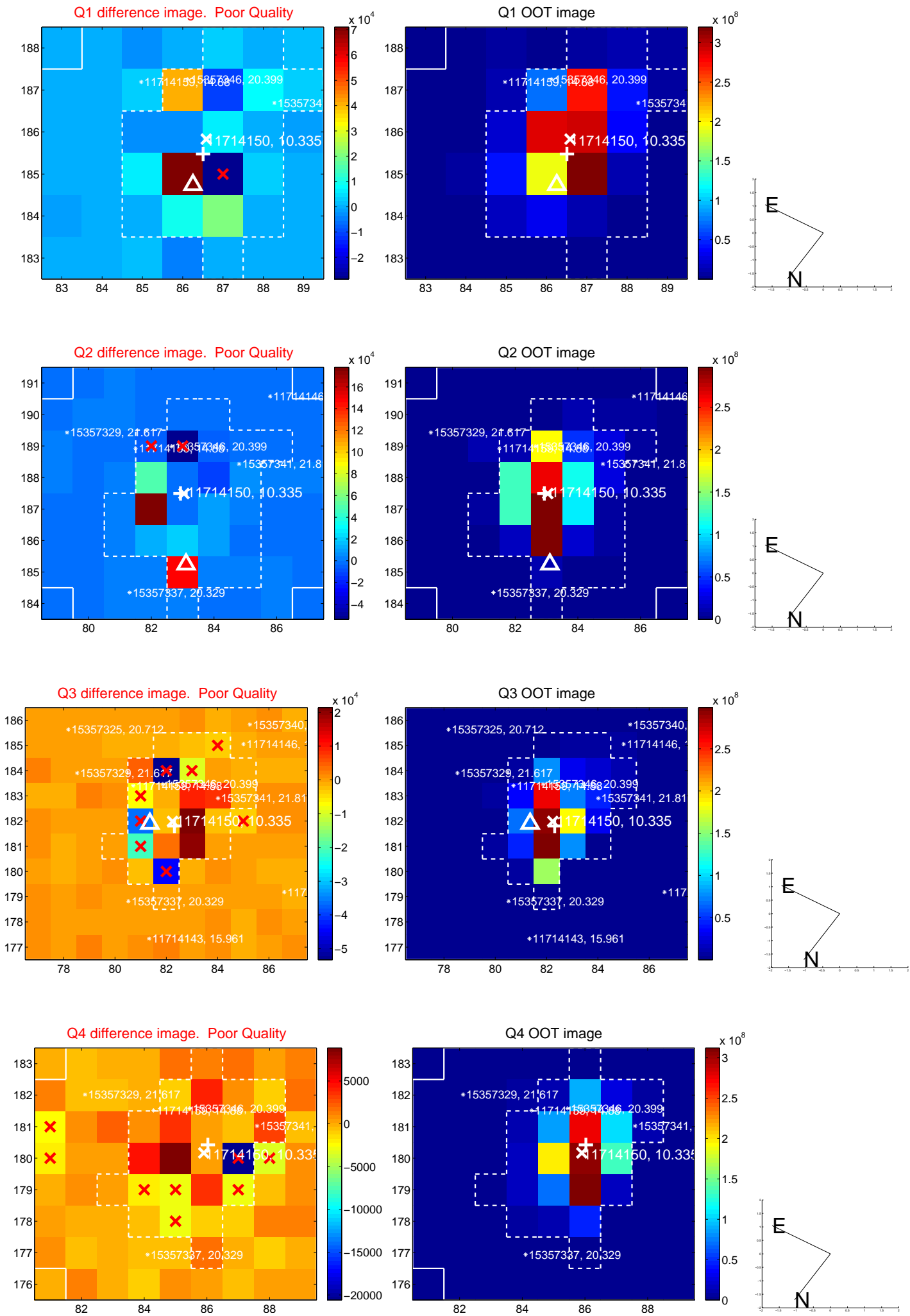
The direct PRF centroid is offset from the target star catalog position by about 1.37 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.511 ± 1.196	1.26	-1.274 ± 0.857	0.812 ± 1.134
PRF-fit source offset from KIC position	2.264 ± 1.263	1.79	-1.613 ± 0.843	1.589 ± 1.111
photometric centroid source offset	0.23 ± 0.23	1.03	0.12 ± 0.18	-0.20 ± 0.24

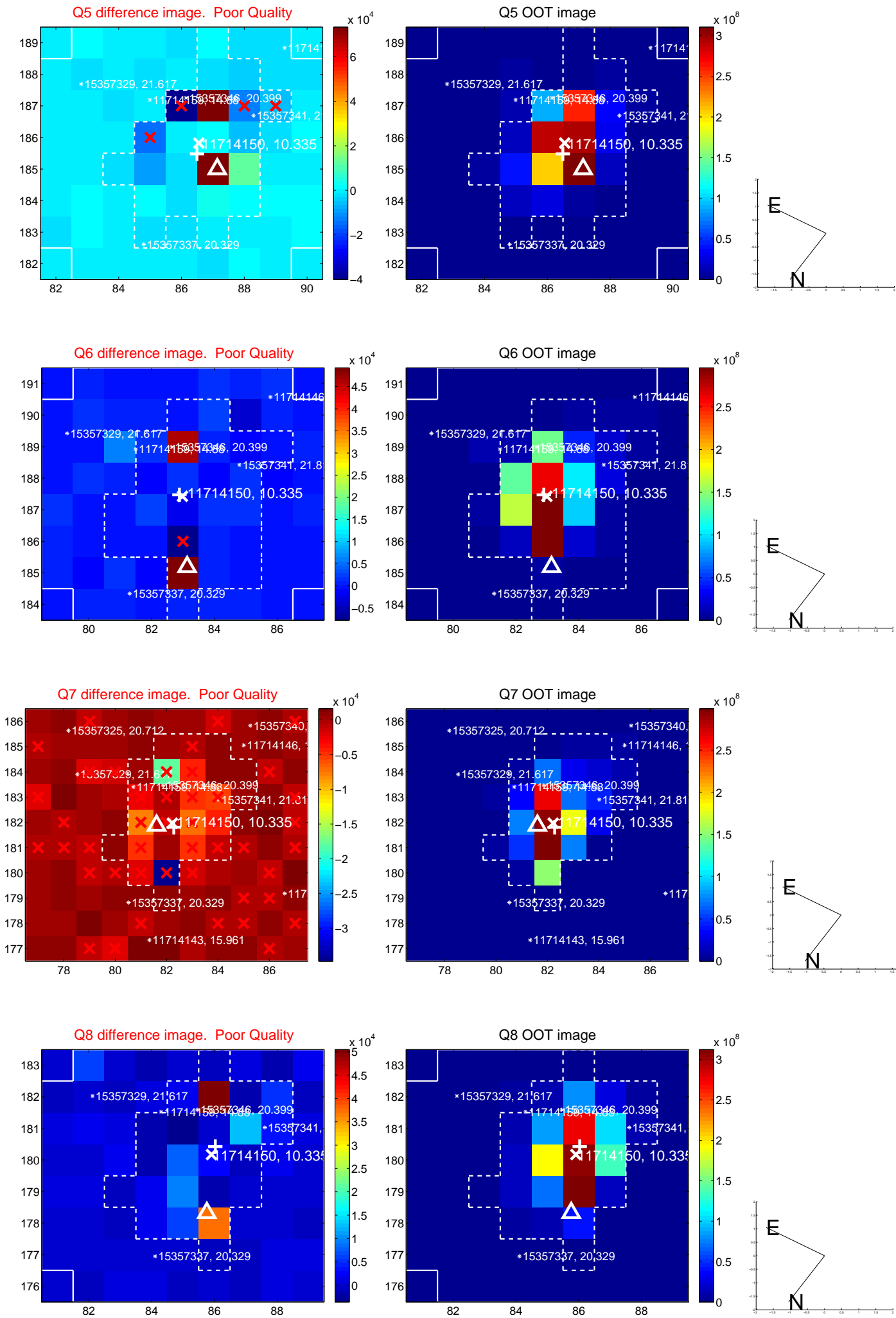


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

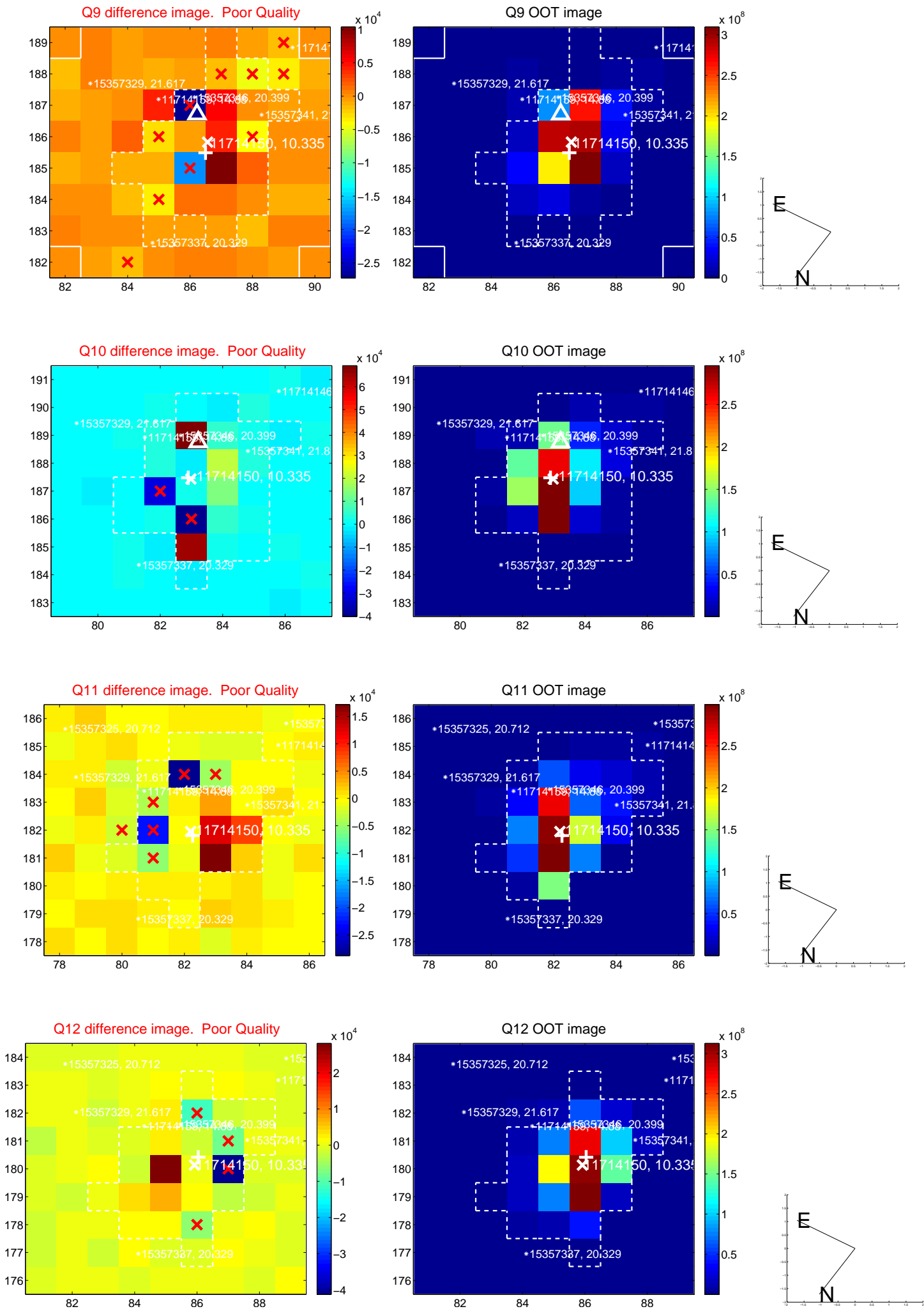
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



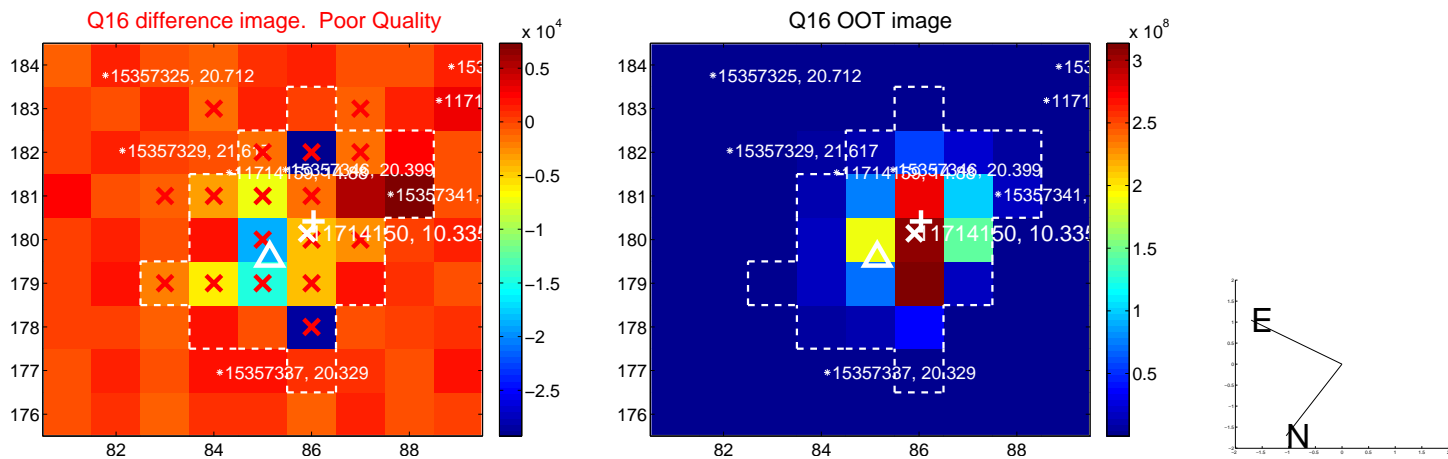
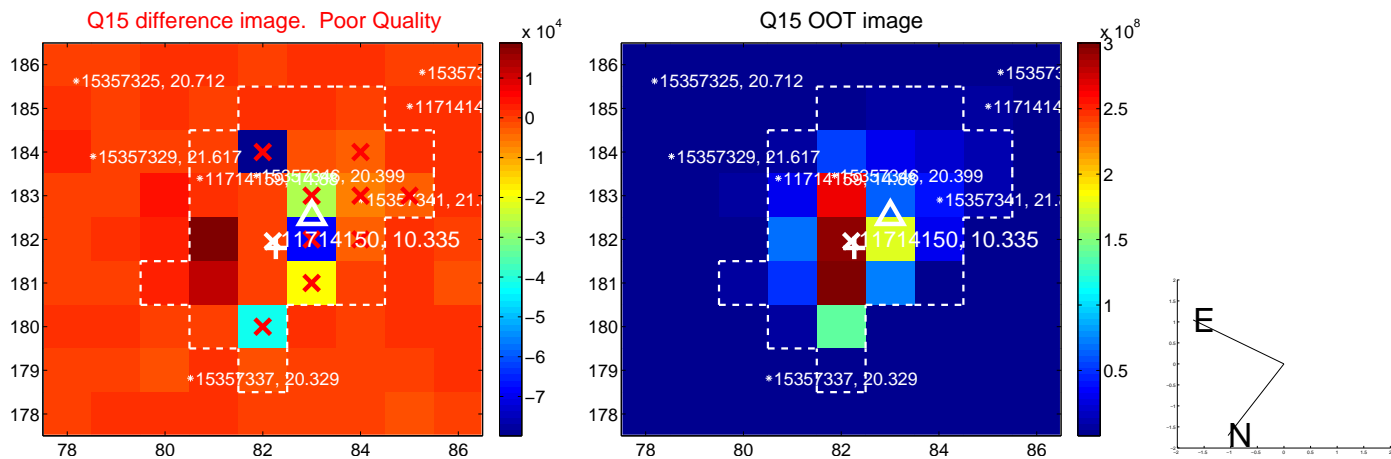
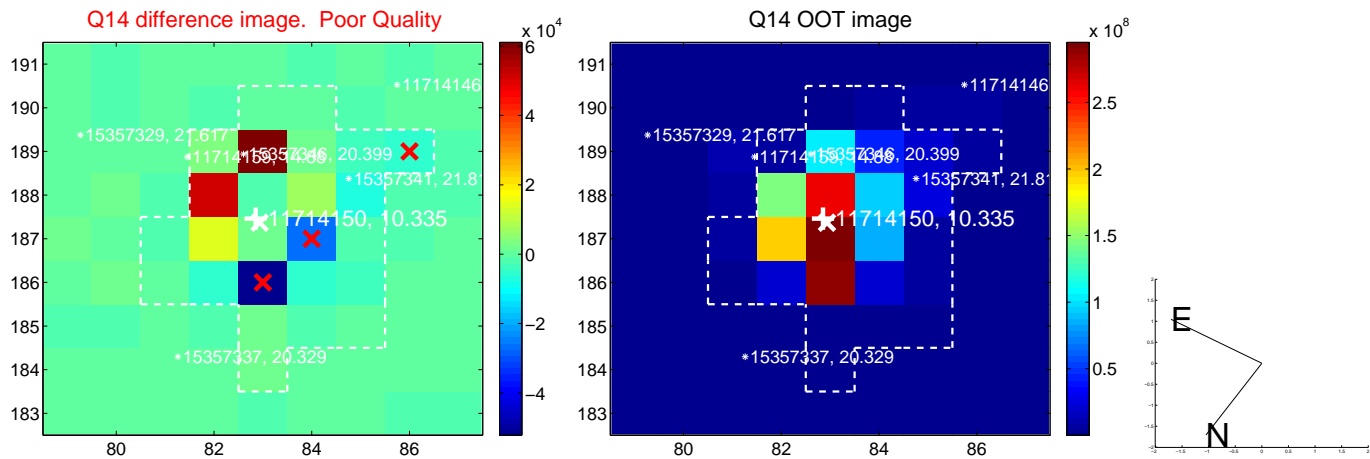
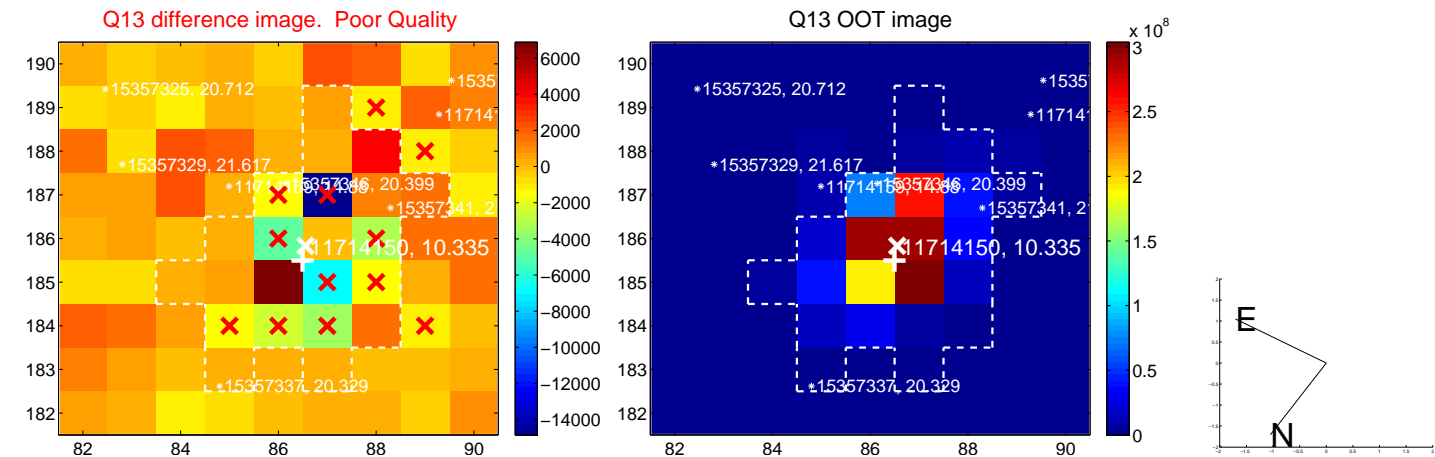
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



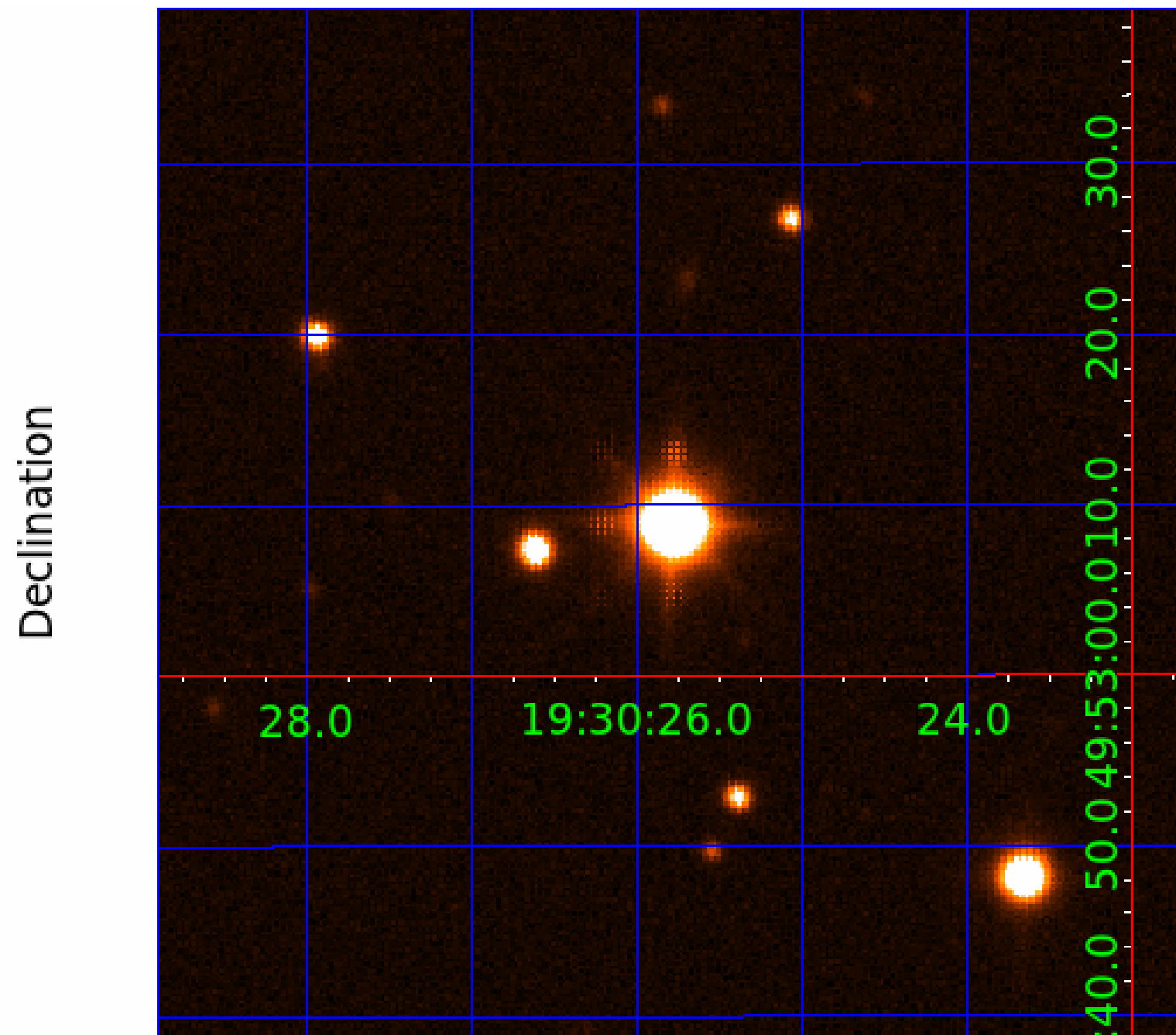
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 011714150

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})
011714150-01	OBS	No	1.694524	131.568784	18.0	5.780	10.9	9.1	3.06	8493	1.43	35398.43
011714150-02	OBS	No	0.588549	131.863166	17.4	4.290	9.8	12.7	3.06	8493	1.49	144989.99
011714150-03	OBS	No	2.074040	133.479216	0.2	3.064	17.8	0.1	3.06	8493	0.15	27036.99
011714150-04	OBS	No	9.140972	135.124696	78.5	1.350	12.1	3.2	3.06	8493	2.85	3741.61
011714150-05	OBS	No	11.605539	132.026703	180.5	1.517	14.6	13.3	3.06	8493	4.23	2721.62
011714150-06	OBS	No	5.955380	134.847991	53.9	6.501	13.7	7.6	3.06	8493	2.52	6624.73
011714150-07	OBS	No	19.202625	140.092455	233.9	1.279	12.4	14.3	3.06	8493	4.77	1390.70
011714150-08	OBS	No	3.983876	135.127734	52.5	3.500	9.6	-1.0	3.06	8493	2.25	11323.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011714150-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
011714150-02	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
011714150-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
011714150-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
011714150-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST
011714150-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

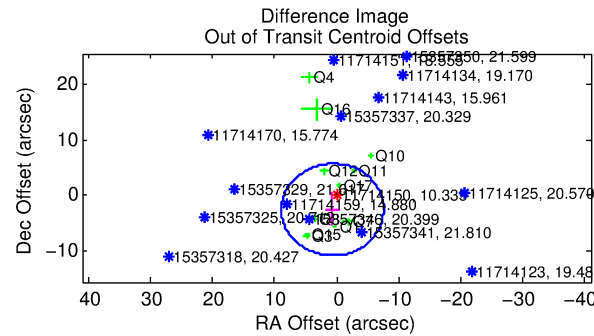
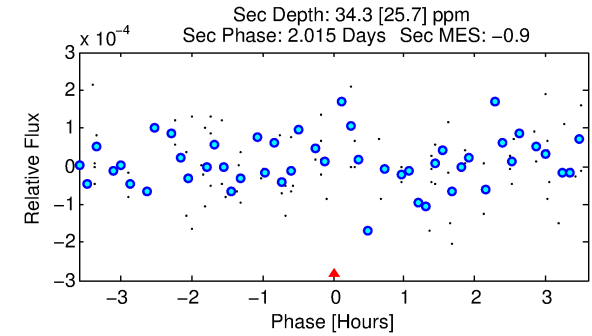
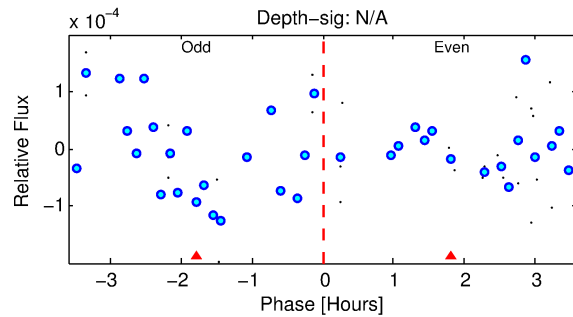
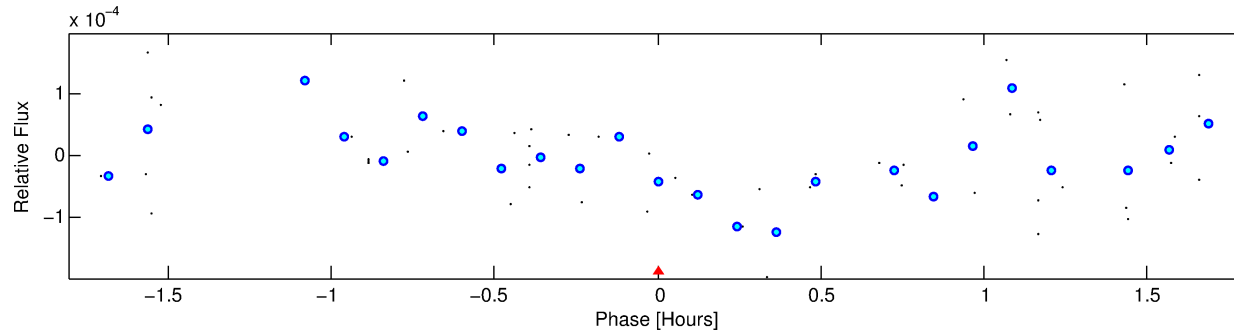
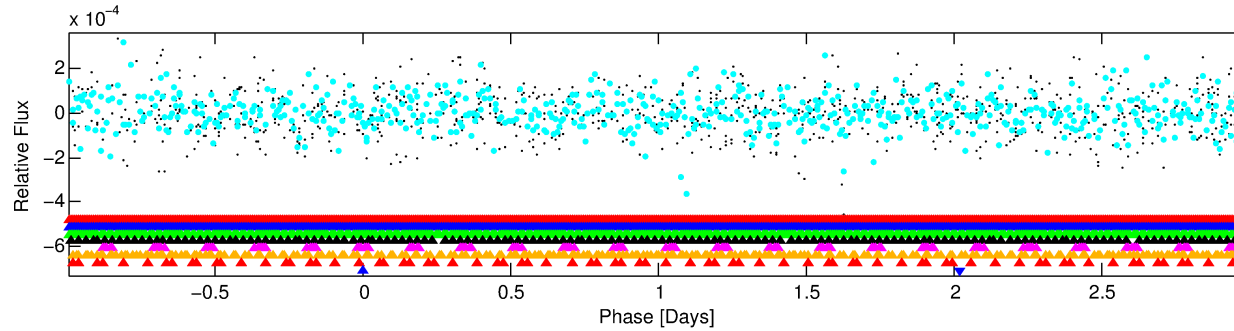
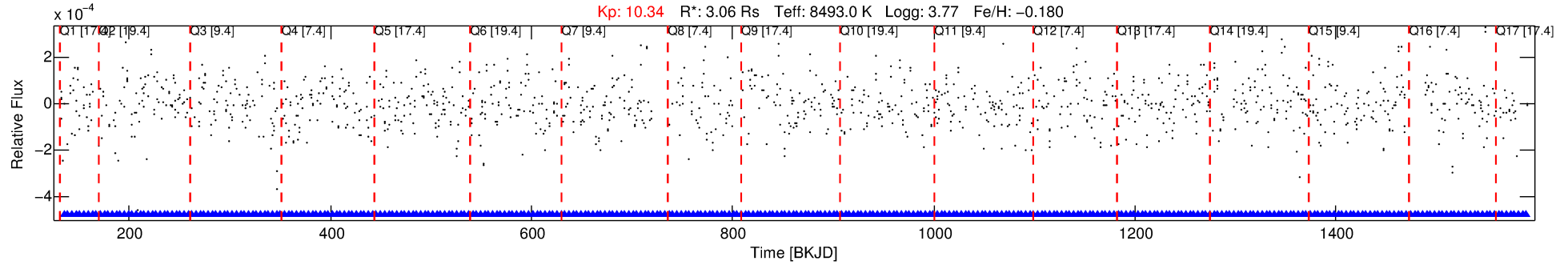
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011714150-08

No Significant Match Found

DV One-Page Summary

KIC: 11714150 Candidate: 8 of 8 Period: 3.984 d



TPS TCE Results:

Period = 3.98388 d
Epoch = 135.1277 BKJD

DV fit results are unavailable

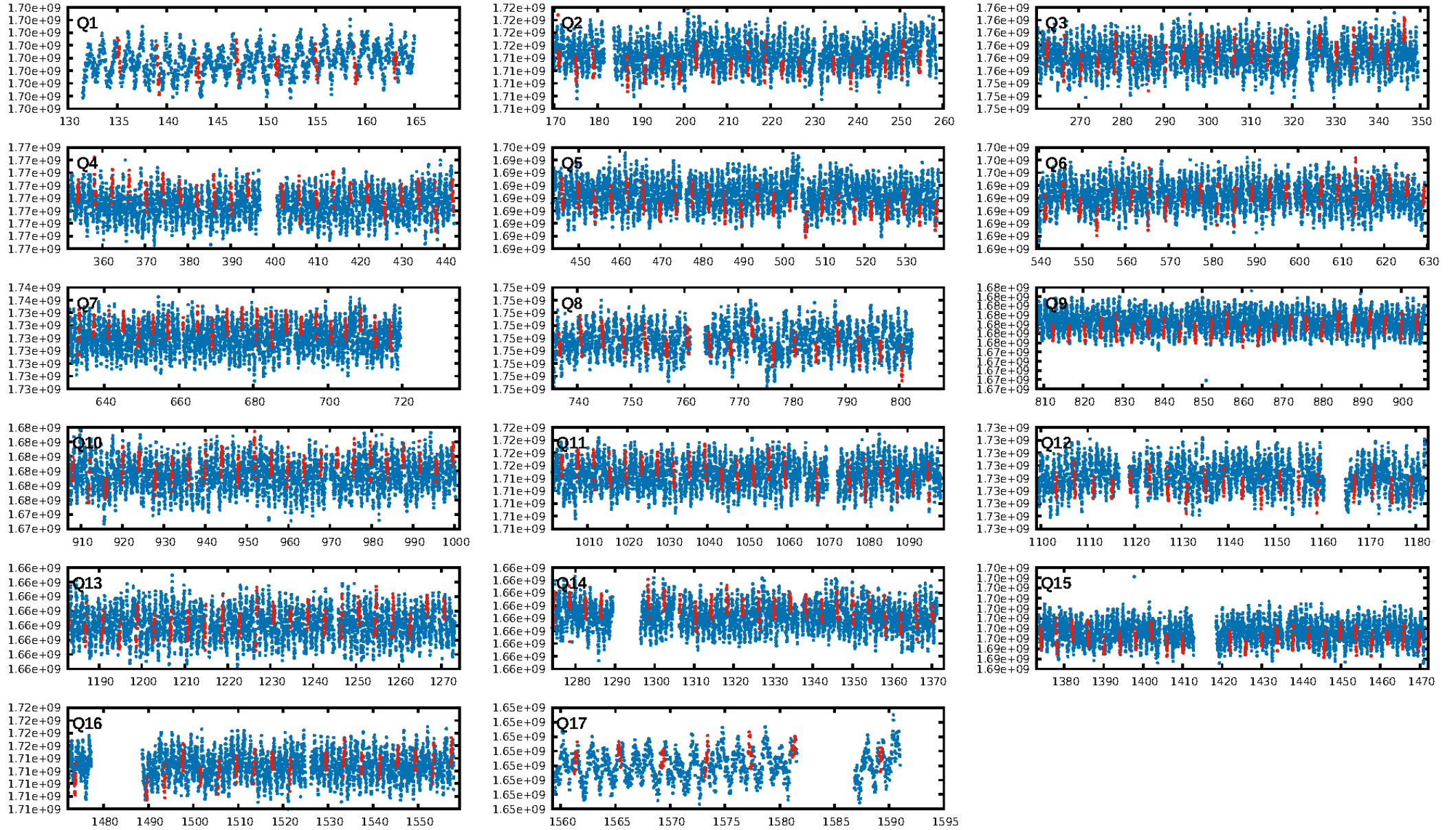
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [9.85 σ]
LongPeriod-sig: 100.0% [6.41 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [21/21]
GhostDiagnostic-chr: 0.8172
Centroid-sig: 5.4%
Centroid-so: 0.284 arcsec [1.51 σ]
OotOffset-rm: 2.614 arcsec [0.95 σ]
KicOffset-rm: 1.791 arcsec [0.67 σ]
OotOffset-st: 1/4/4/2 [11]
KicOffset-st: 1/4/4/2 [11]
DiffImageQuality-fgm: 0.27 [3/11]
DiffImageOverlap-fno: 0.00 [0/17]

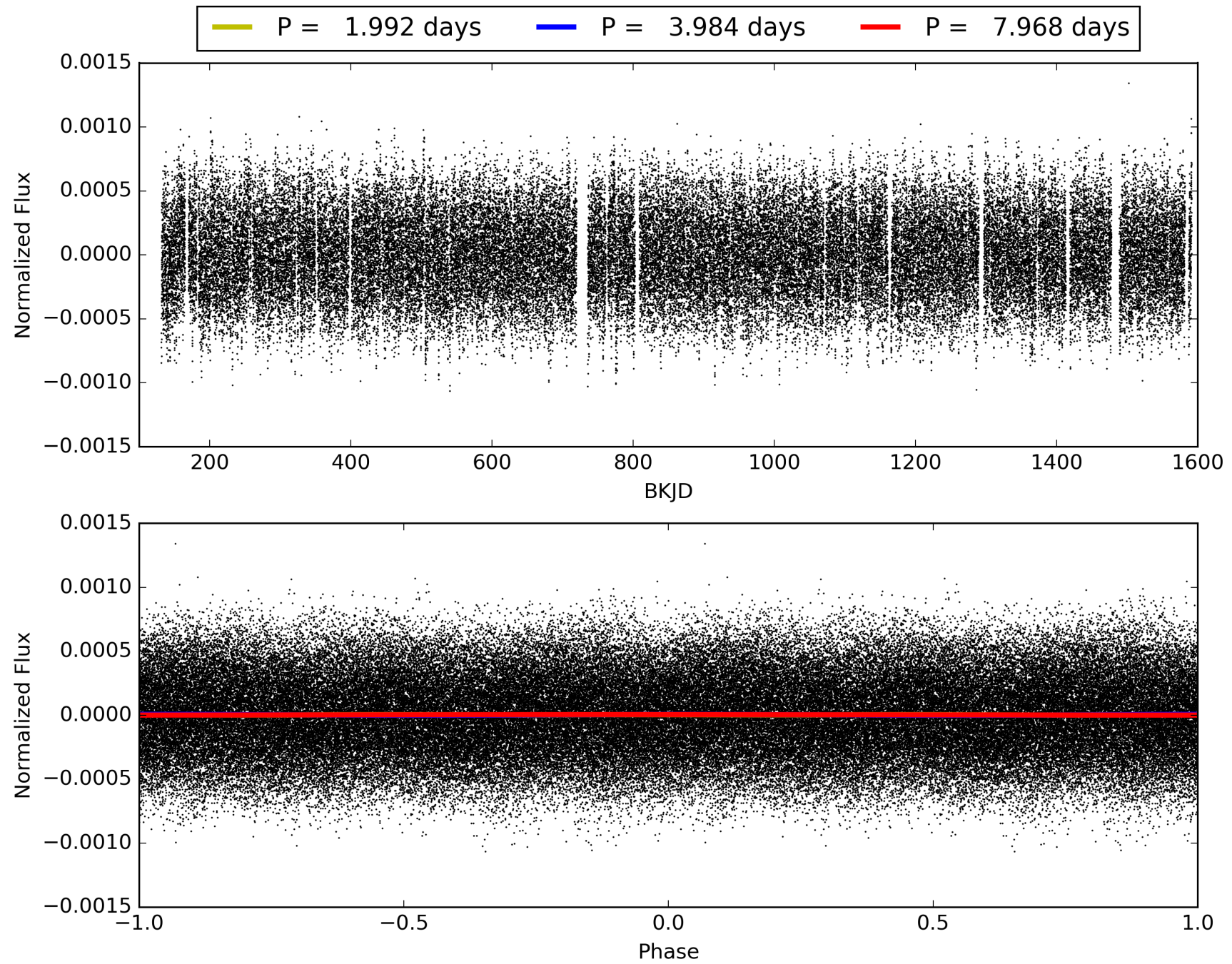
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:25:13 Z

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

TCE 011714150-08, PDC Light Curves

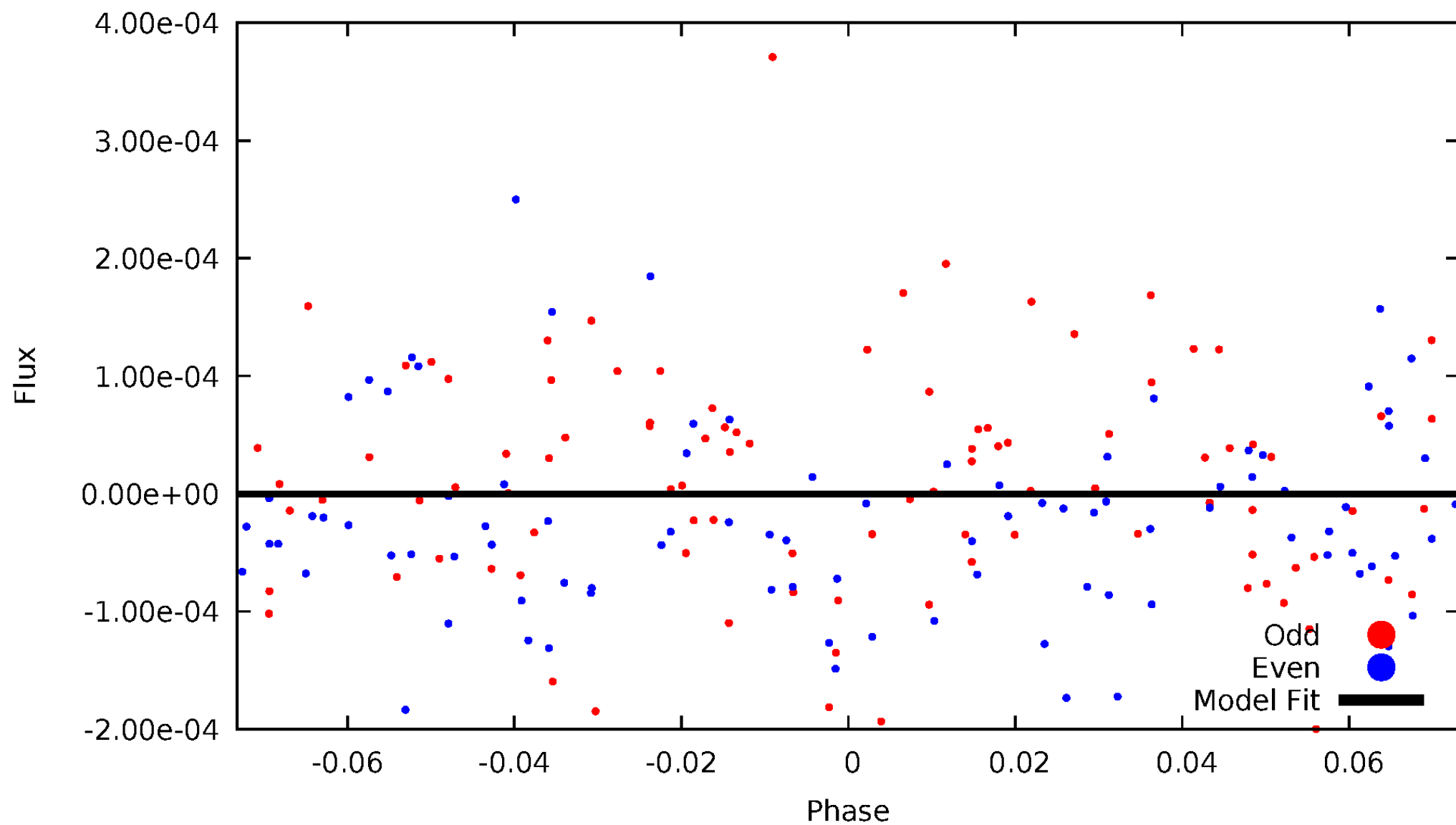


TCE 011714150-08



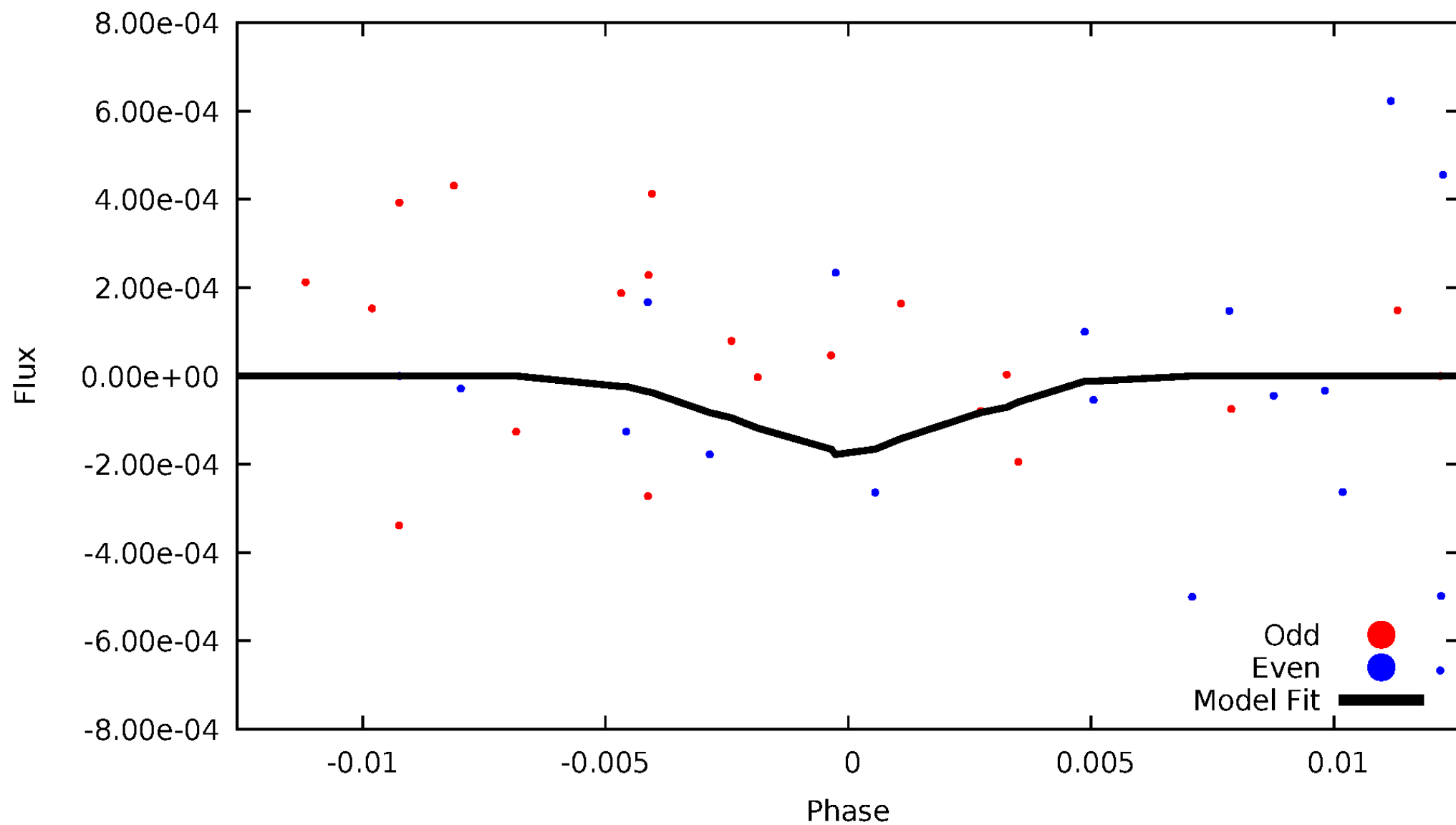
DV Odd/Even

TCE 011714150-08



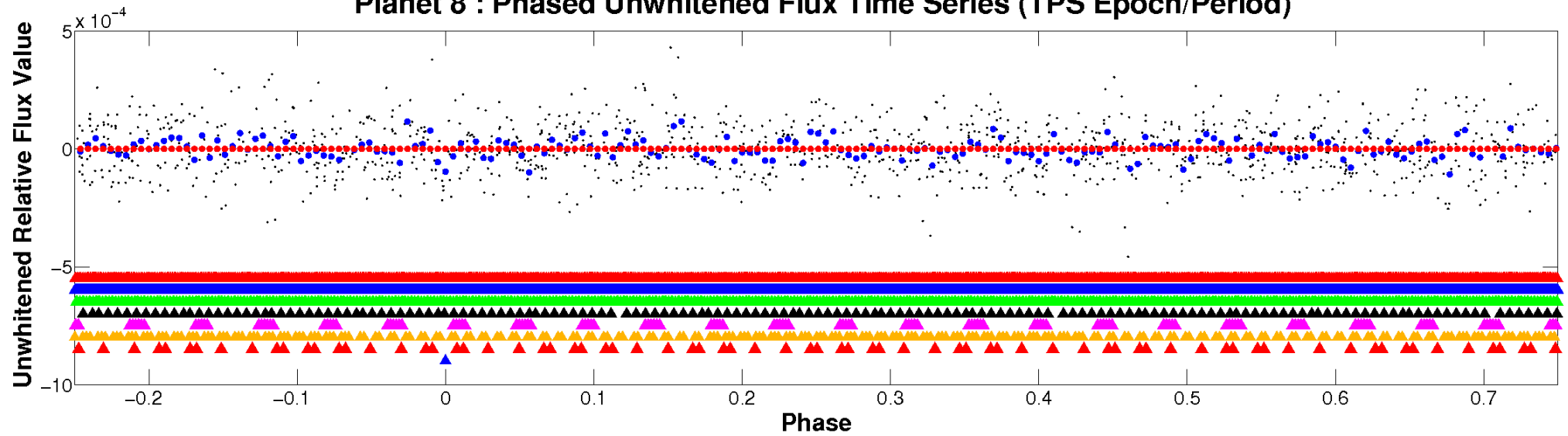
ALT Odd/Even

TCE 011714150-08

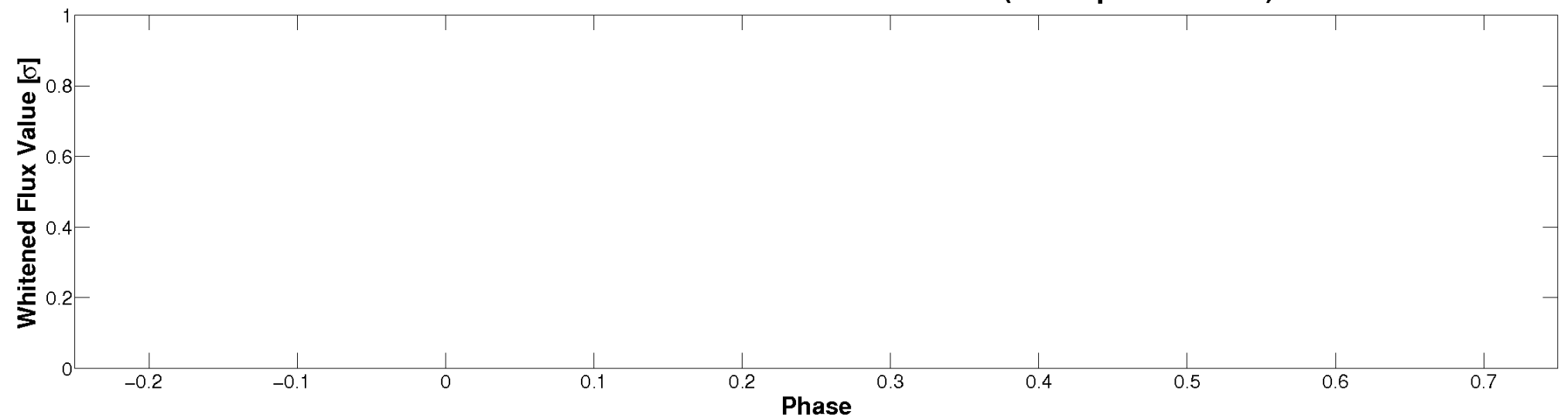


Non-Whitened Vs. Whitened Light Curve

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

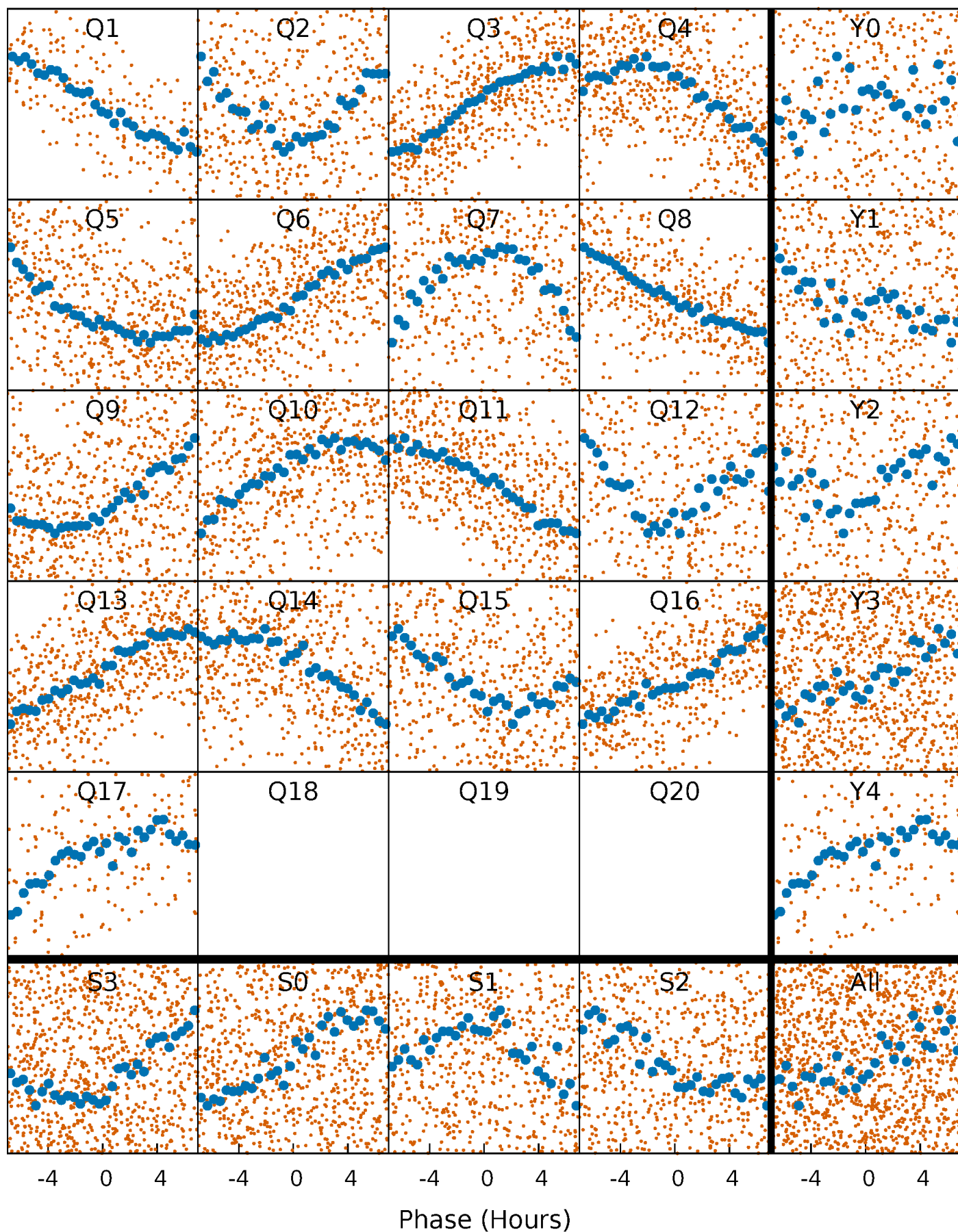


Planet 8 : Phased Whitened Flux Time Series (TPS Epoch/Period)



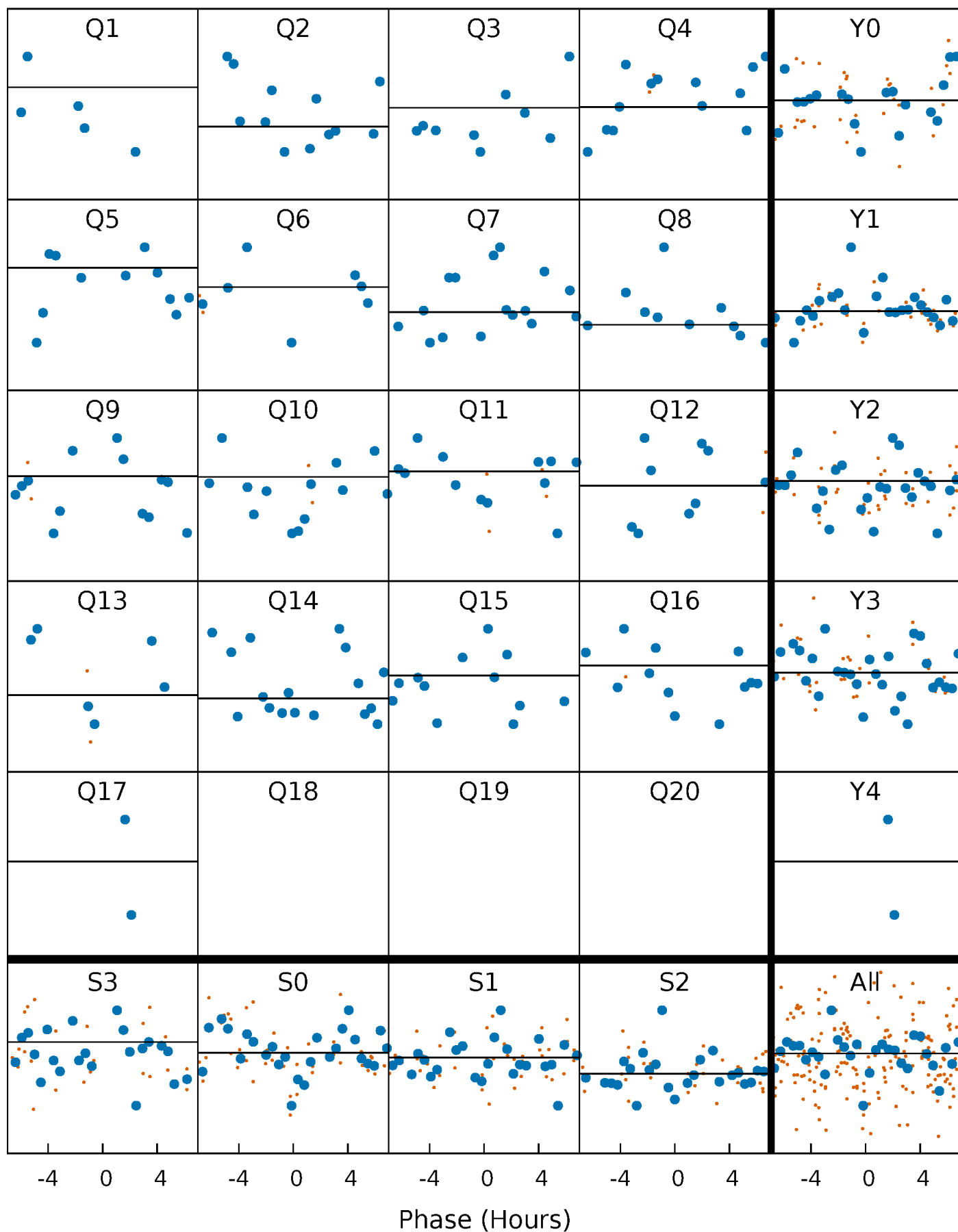
PDC Quarter-Phased Transit Curves

TCE 011714150-08 P= 3.983876 Days $T_0=135.127734$ (BKJD)



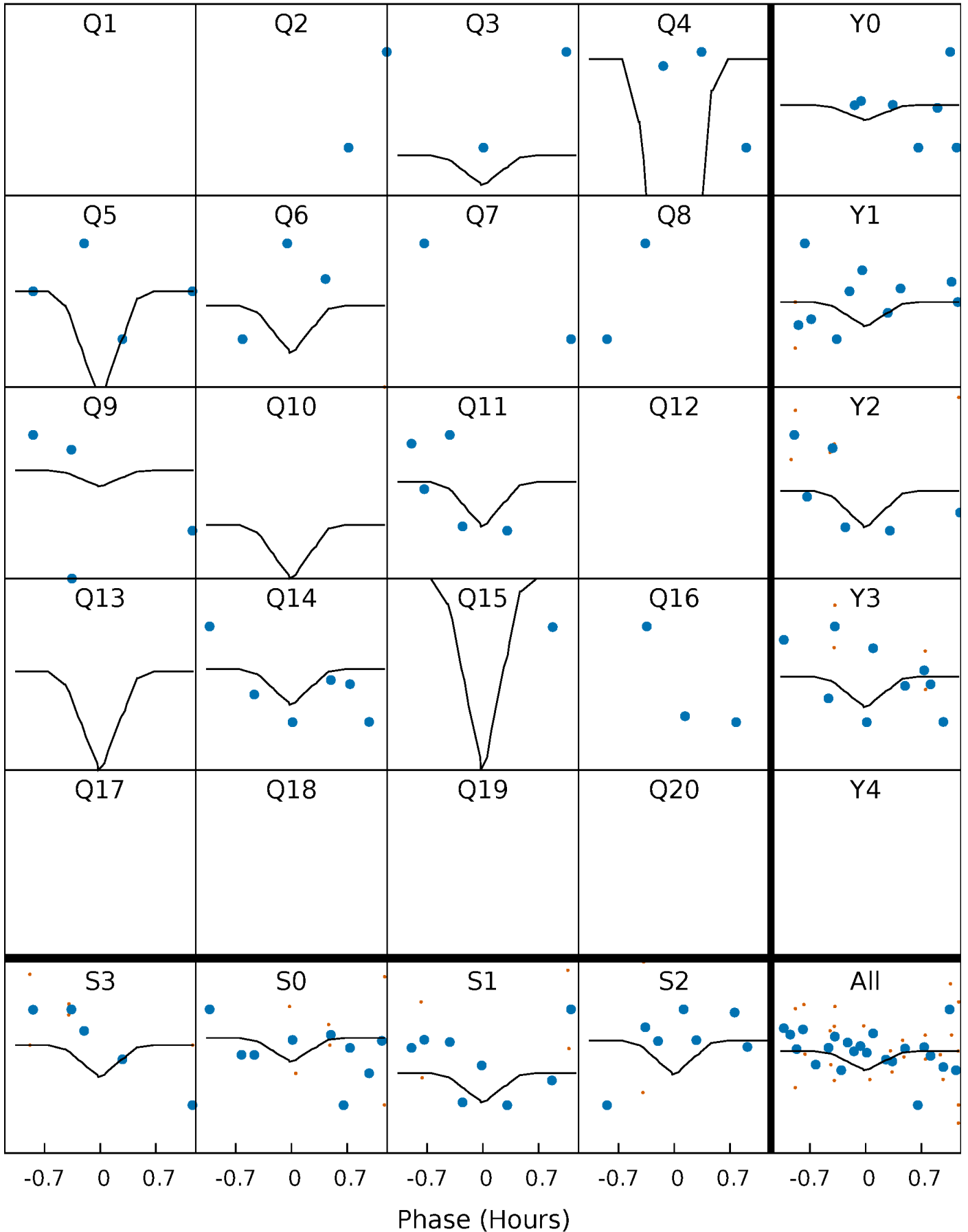
DV Quarter-Phased Transit Curves

TCE 011714150-08 P= 3.983876 Days $T_0=135.127734$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

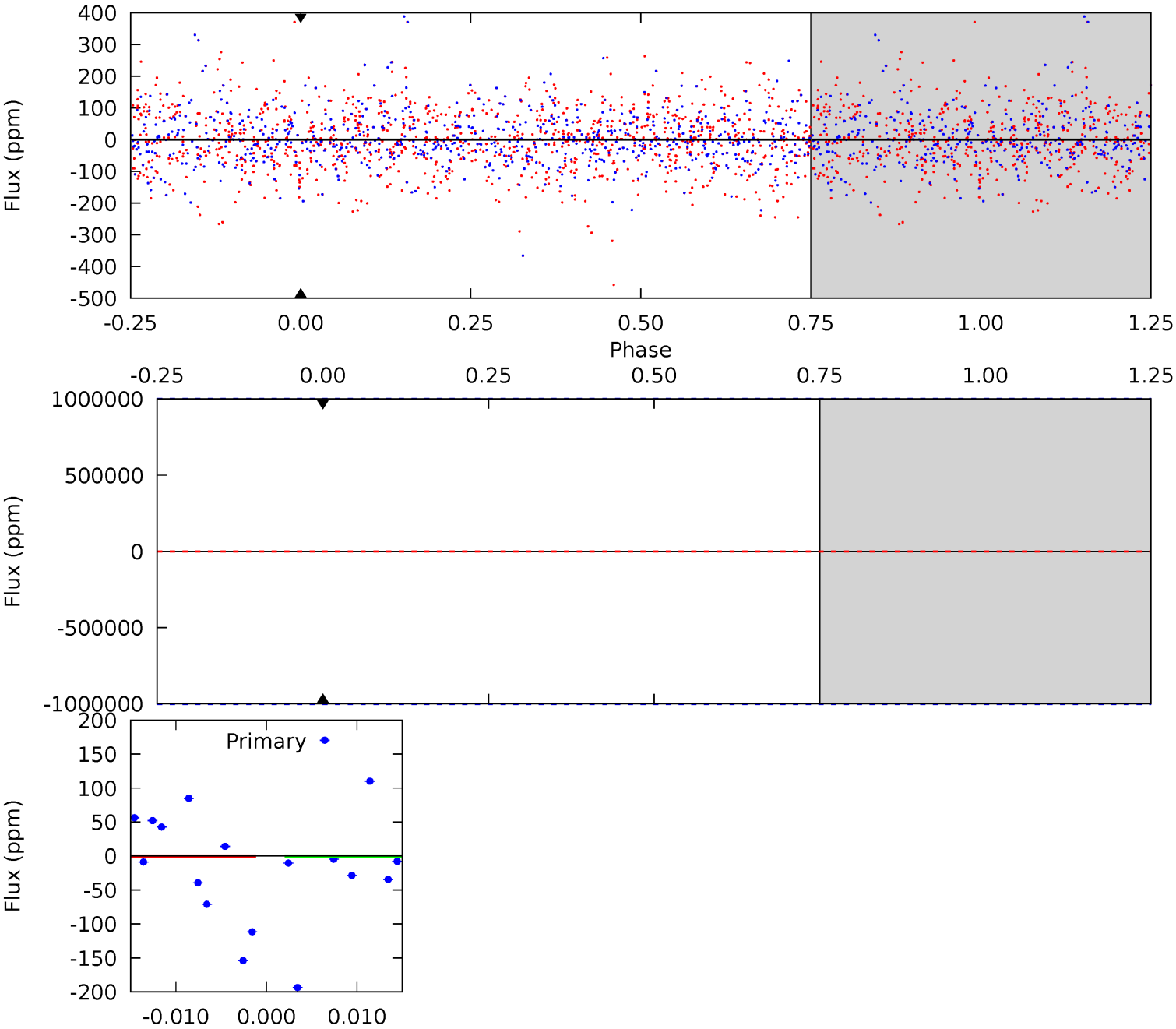
TCE 011714150-08 P= 3.983876 Days $T_0=135.337041$ (BKJD)



DV Model-Shift Uniqueness Test

011714150-08, P = 3.983876 Days, E = 131.143858 Days

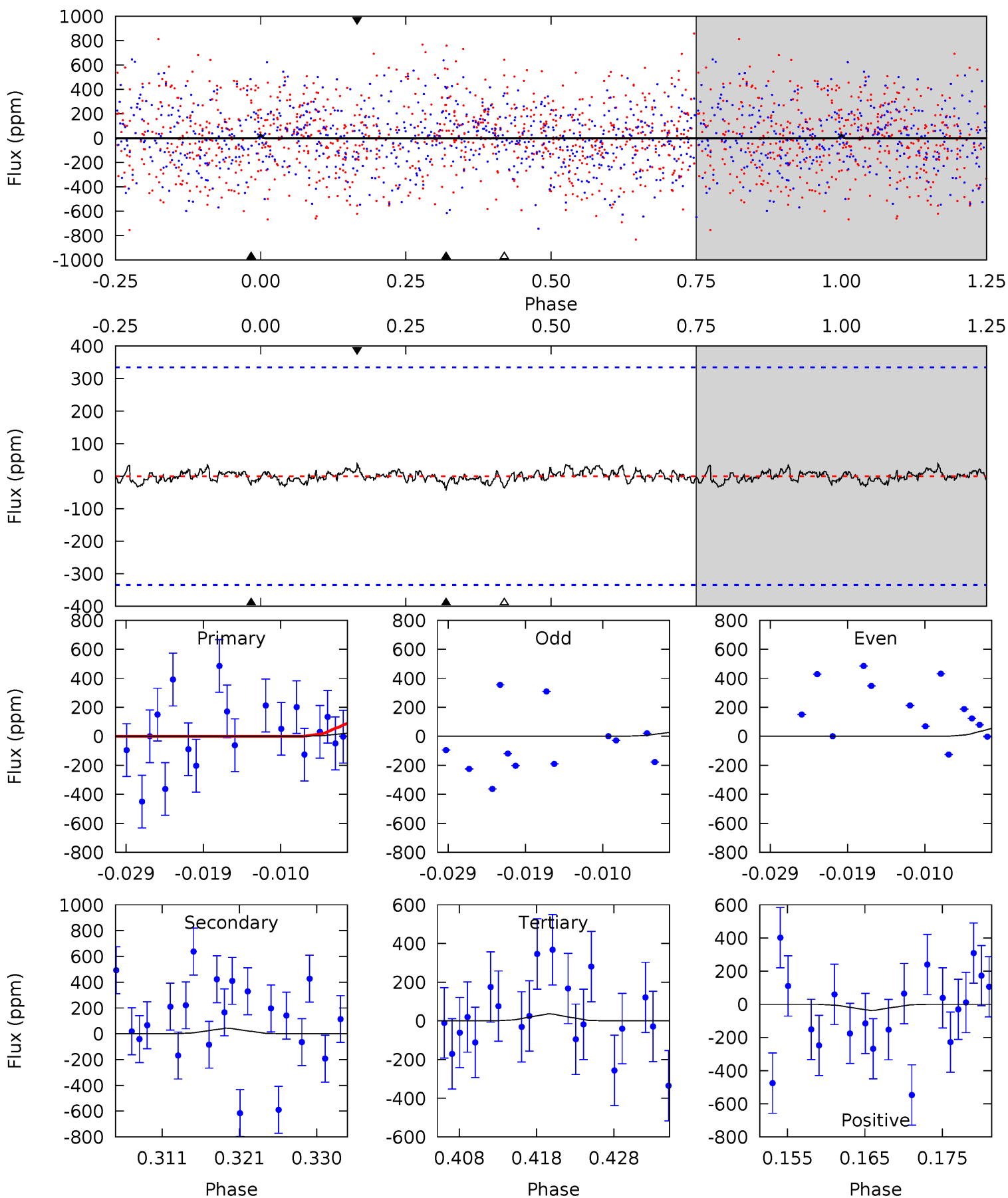
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011714150-08, P = 3.983876 Days, E = 131.353165 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.42	0.66	0.56	0.57	5.03	2.59	0.21	-0.14	-0.15	0.10	0.09	0.26	5.17	0.46	0.14



Stellar Parameters For KIC 011714150

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8493^{+235}_{-383}	$3.770^{+0.432}_{-0.135}$	$-0.180^{+0.300}_{-0.350}$	$3.061^{+0.785}_{-1.345}$	$2.017^{+0.345}_{-0.474}$	$0.099^{+0.376}_{-0.041}$
	+3%/-5%	+11%/-4%	+167%/-194%	+26%/-44%	+17%/-24%	+379%/-41%
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 011714150-08 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$21.59^{+24.09}_{-16.10}$	3566^{+314}_{-422}	6091^{+63872}_{-61493}	$7.597^{+991.095}_{-813.477}$
Alt.	-44 ± 66	$21.95^{+25.29}_{-15.08}$	3577^{+298}_{-433}	-3063^{+7353}_{-474}	$0.110^{+1.766}_{-0.163}$

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

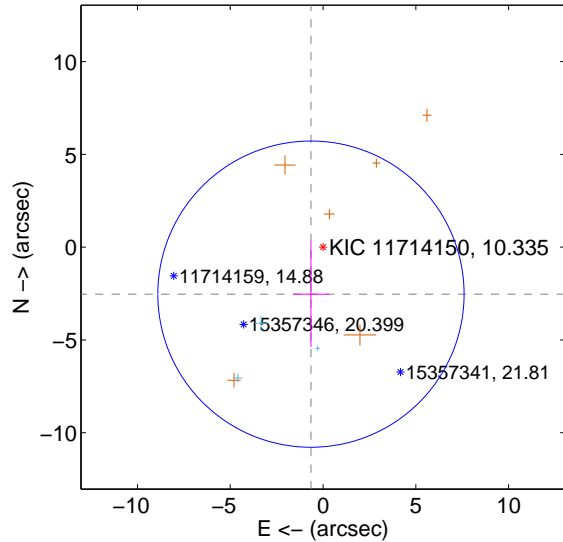
Supplemental centroid analysis for 011714150-08. **Kepler magnitude: 10.34.** Transit SNR -1.00

There are 3 quarters with good PRF difference image offsets

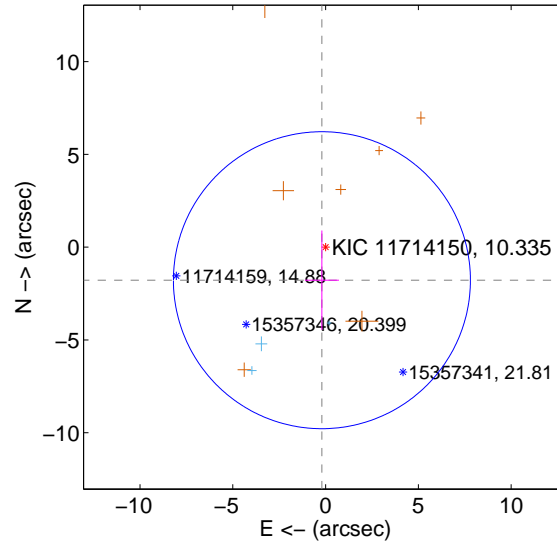
The direct PRF centroid is offset from the target star catalog position by about 1.40 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.614 ± 2.751	0.95	0.651 ± 0.971	-2.532 ± 2.848
PRF-fit source offset from KIC position	1.791 ± 2.668	0.67	0.198 ± 0.916	-1.781 ± 2.677
photometric centroid source offset	0.28 ± 0.19	1.51	-0.24 ± 0.17	0.15 ± 0.23

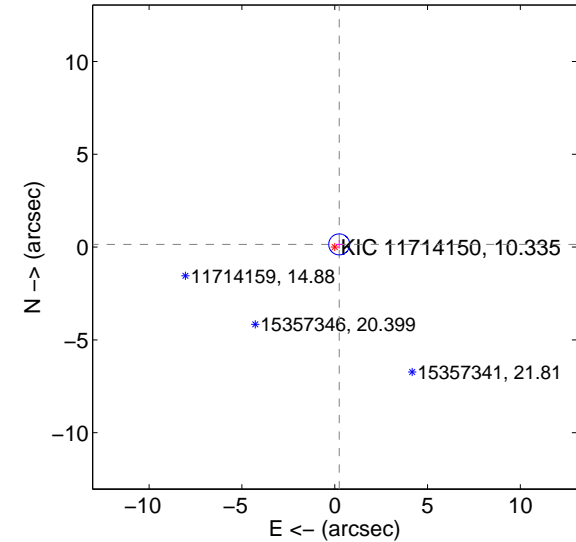
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

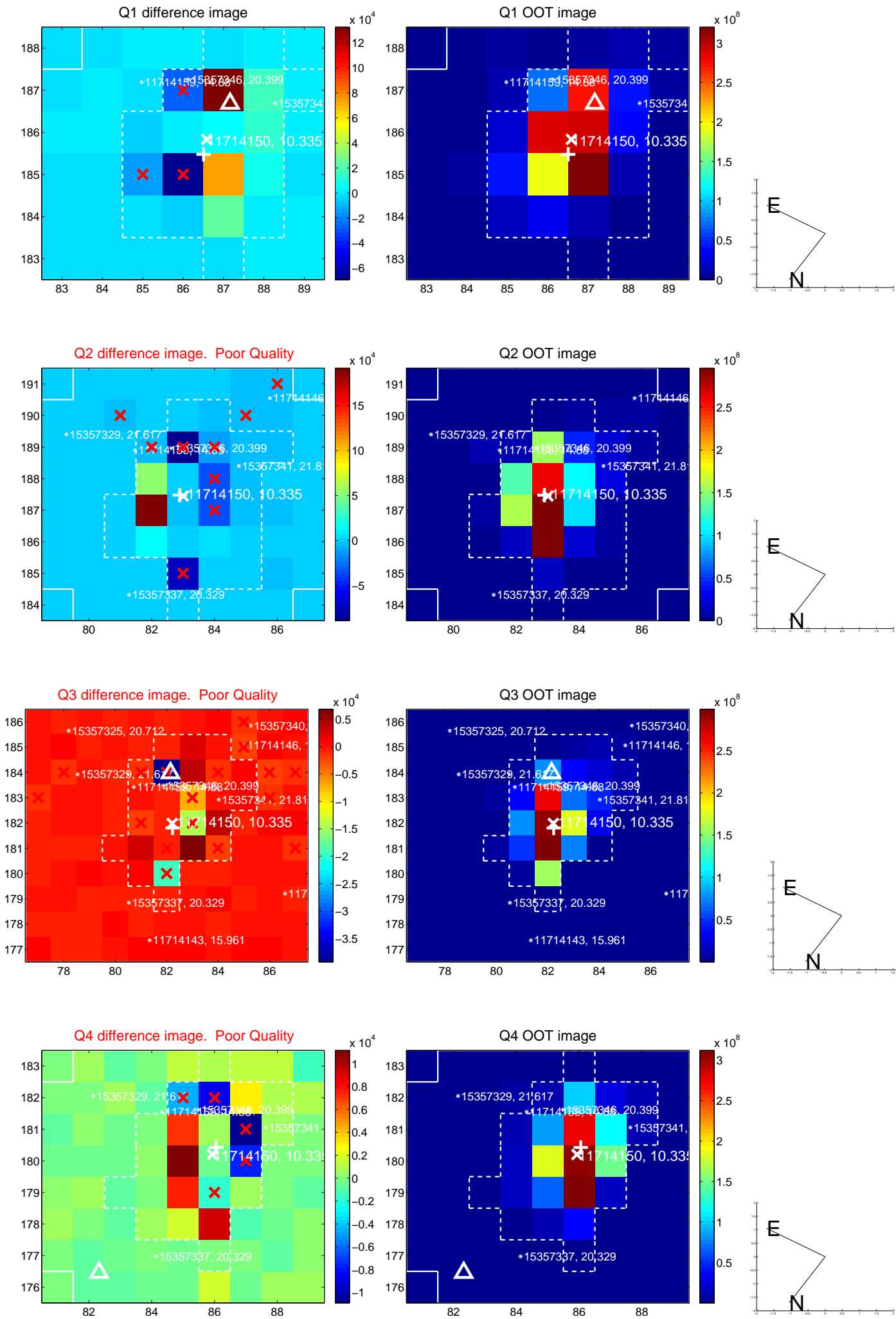


offset from photometric centroids

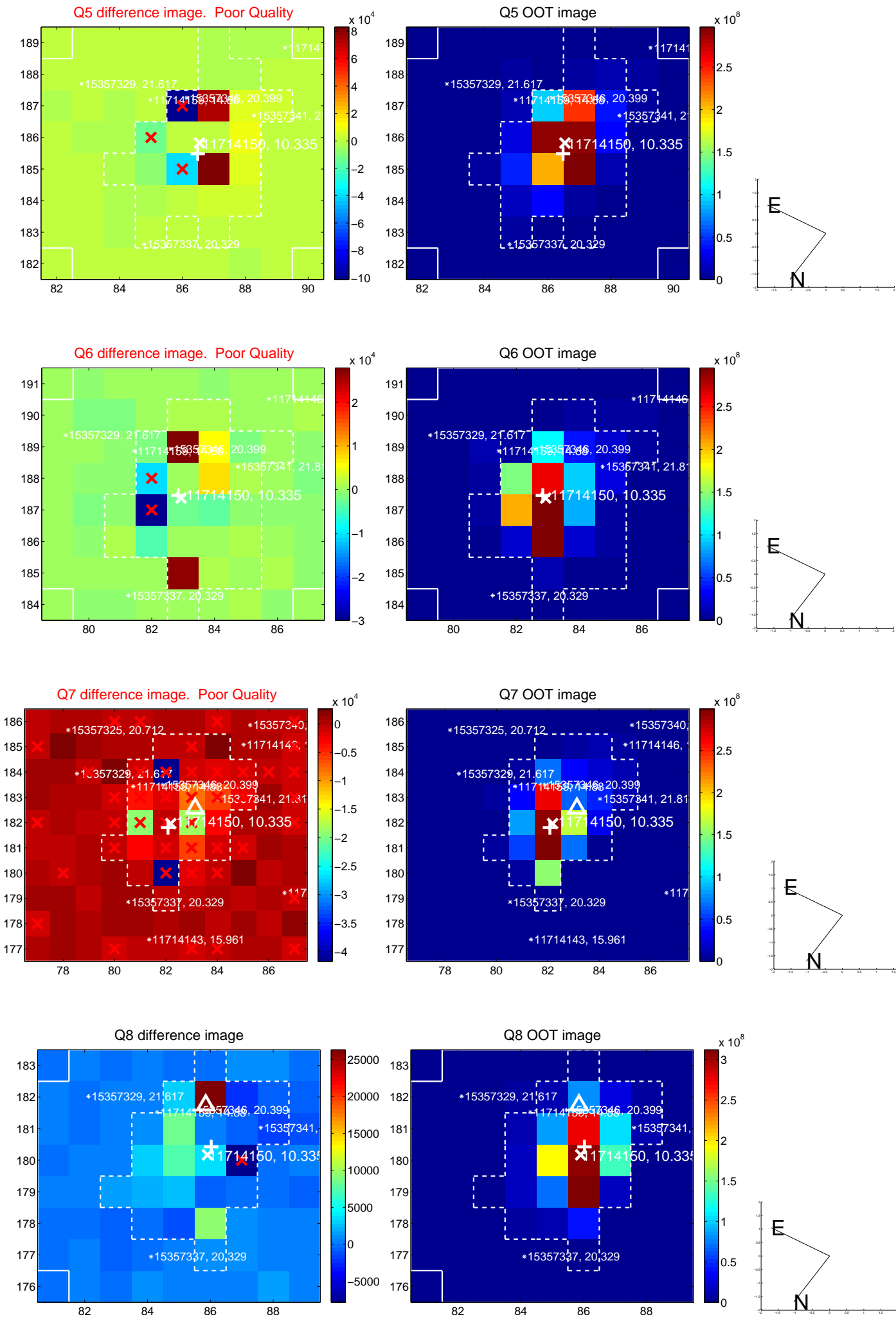


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

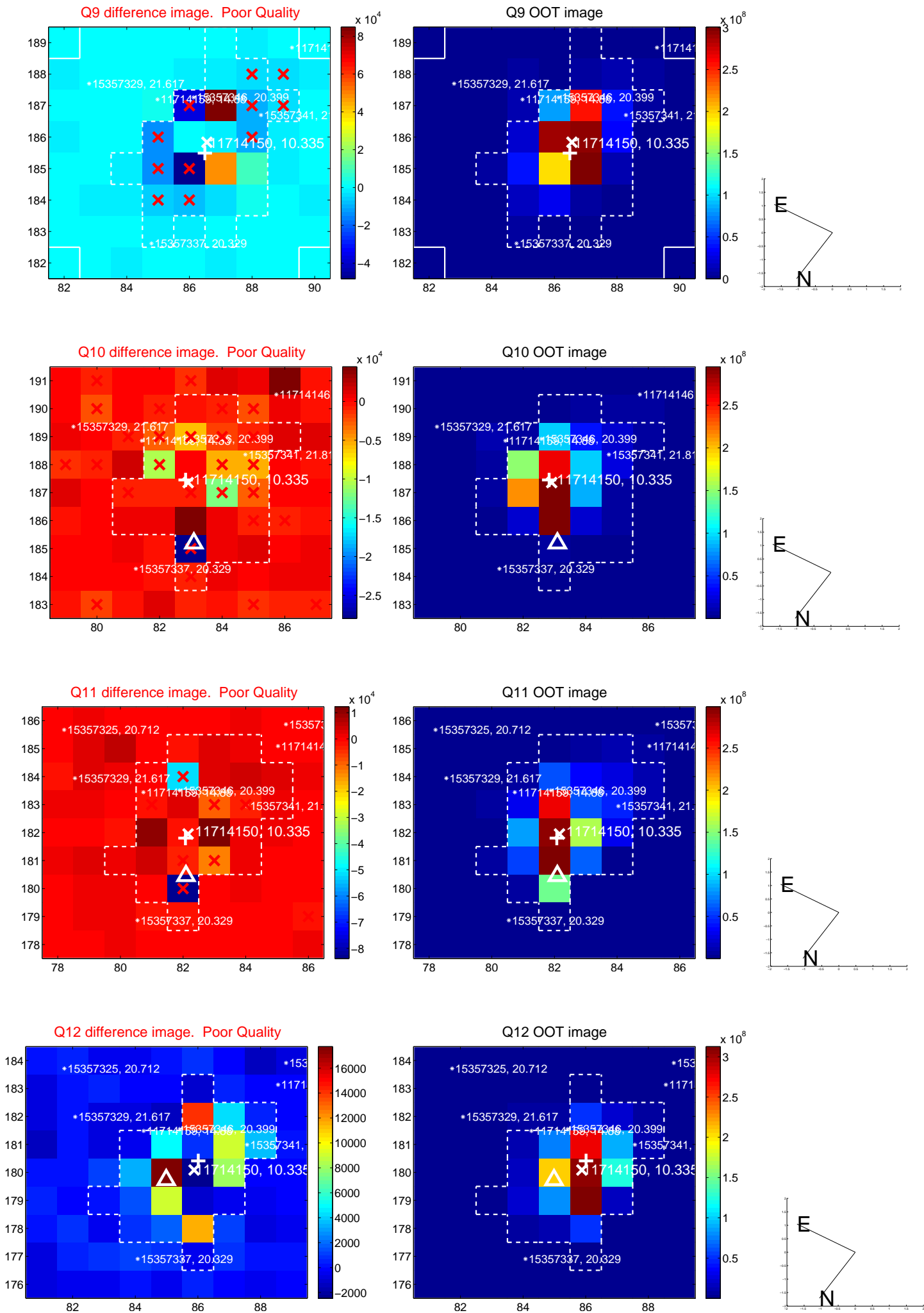
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



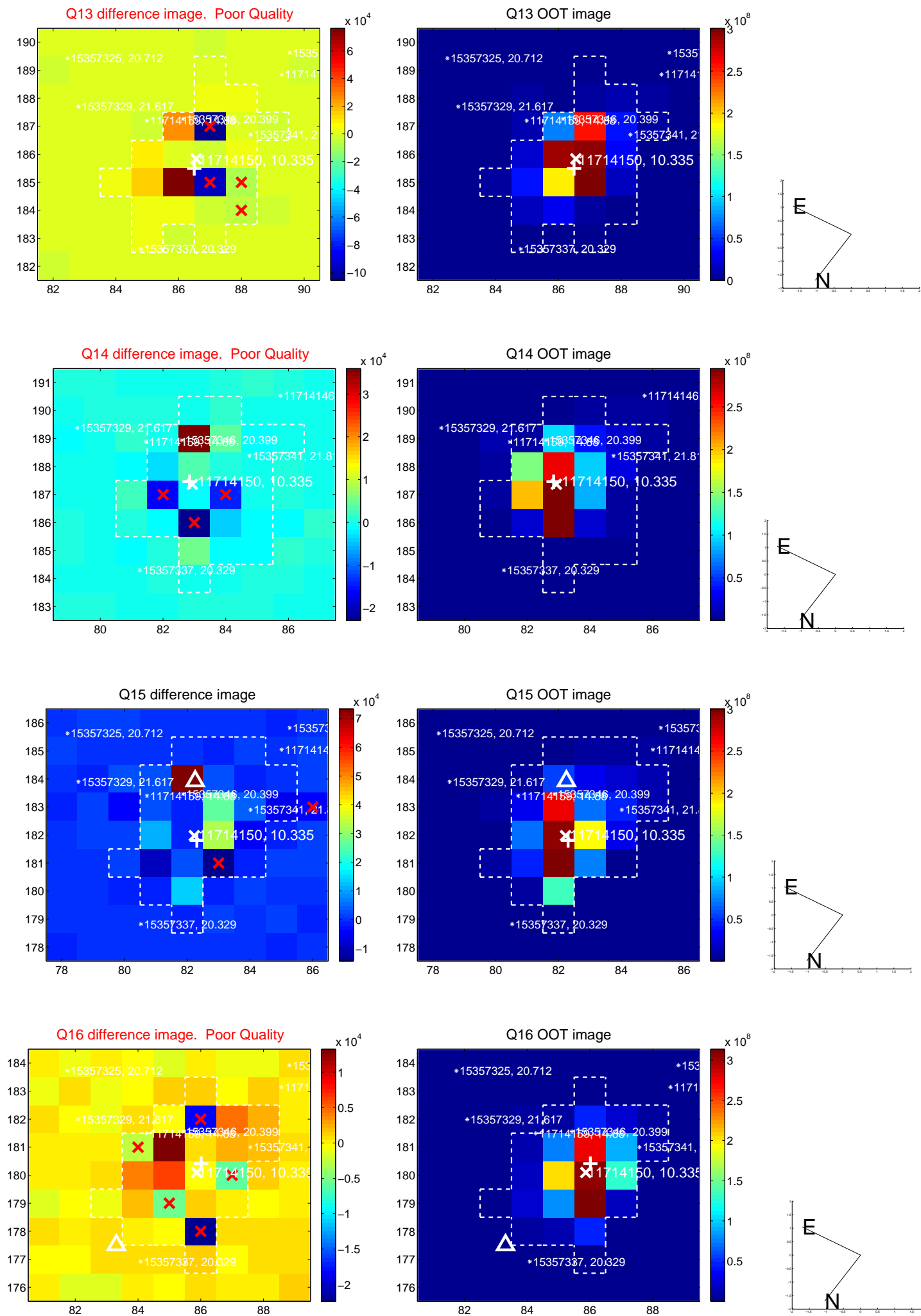
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



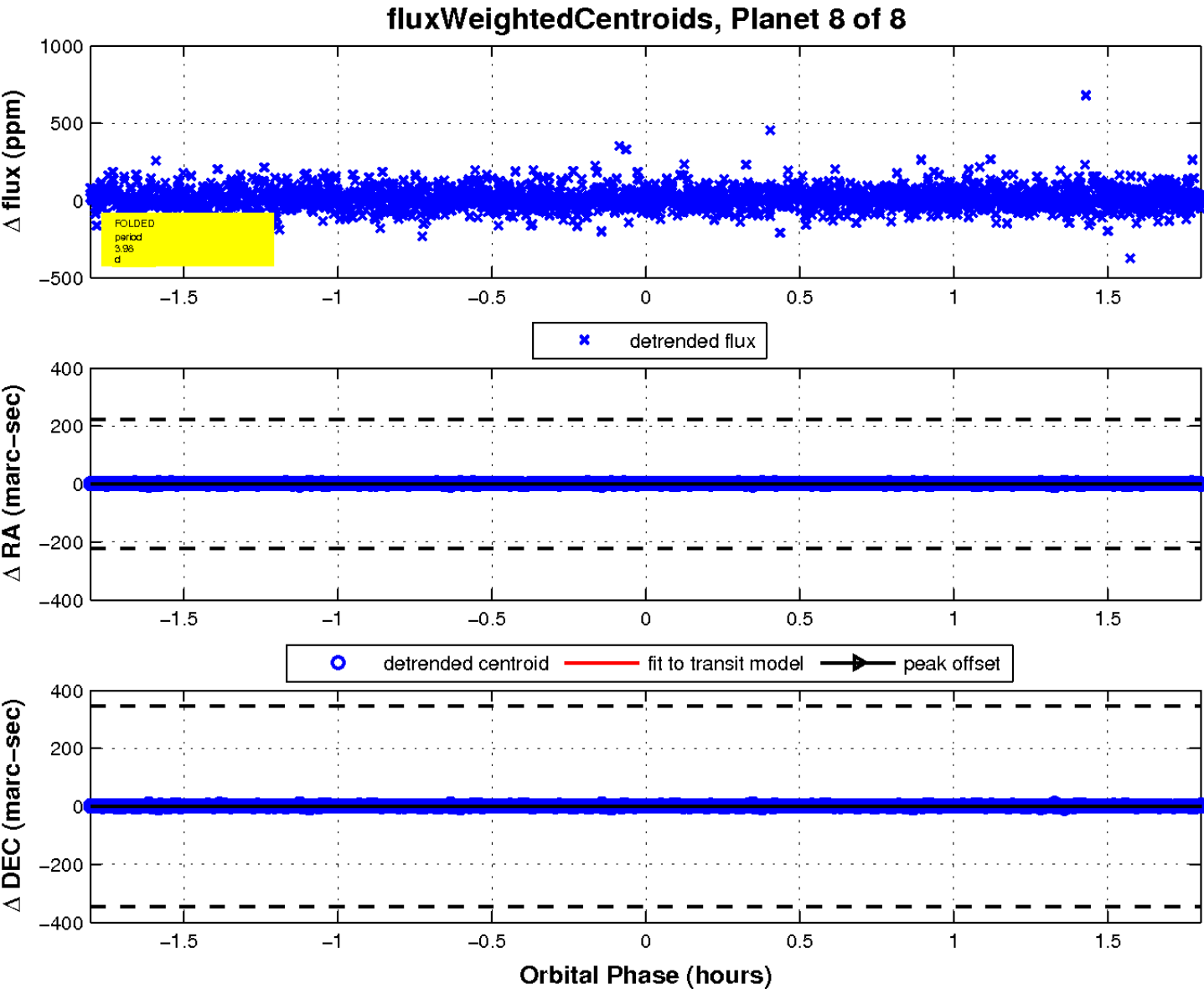
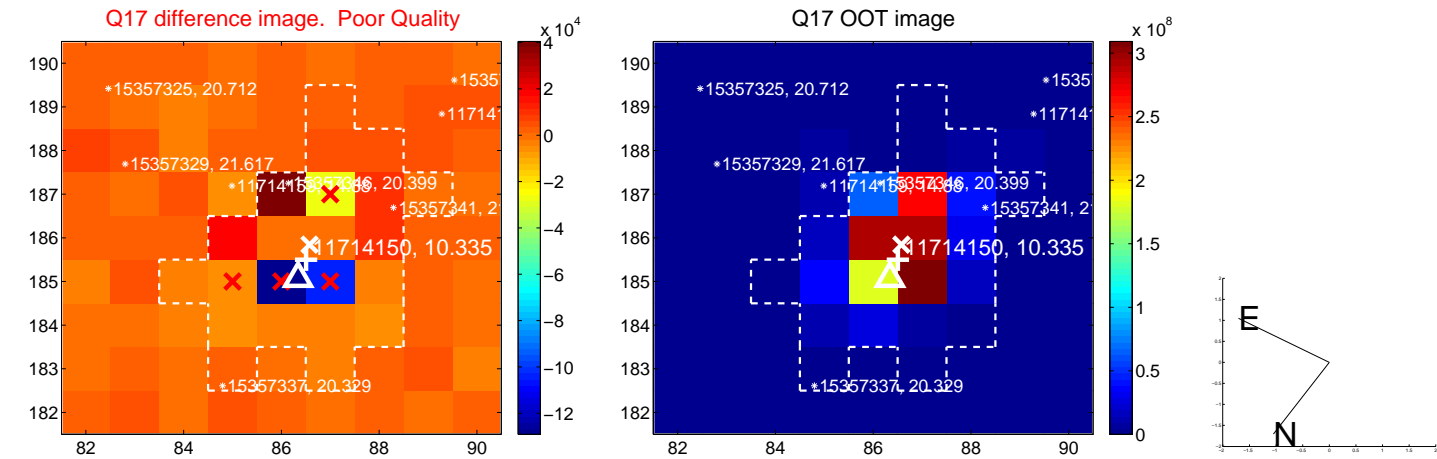
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

