

KIC 007915824

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})
007915824-01	OBS	No	0.730035	131.949210	76.1	5.355	8.1	5.7	0.89	6230	0.91	4487.09
007915824-02	OBS	No	8.781913	133.846237	2504.7	0.836	10.5	7.8	0.89	6230	4.58	162.79
007915824-03	OBS	No	57.230318	177.873764	4620.7	5.298	11.6	10.8	0.89	6230	10.70	13.37
007915824-04	OBS	No	7.941824	135.335995	1018.3	1.500	11.2	-1.0	0.89	6230	2.87	186.15
007915824-06	OBS	No	9.341086	132.542699	675.5	0.571	8.0	1.6	0.89	6230	2.44	149.93

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007915824-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV
007915824-02	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
007915824-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES
007915824-04	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_NOFITS
007915824-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST

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

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

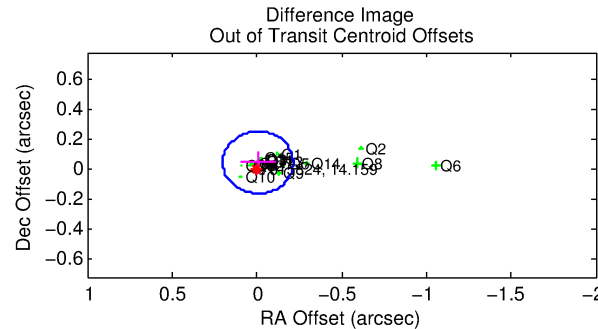
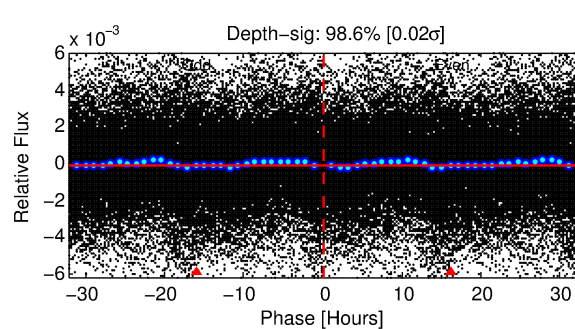
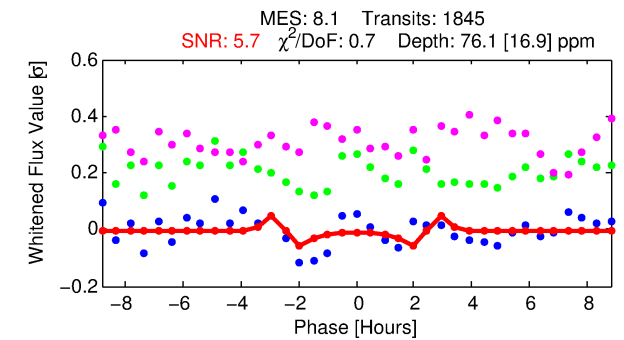
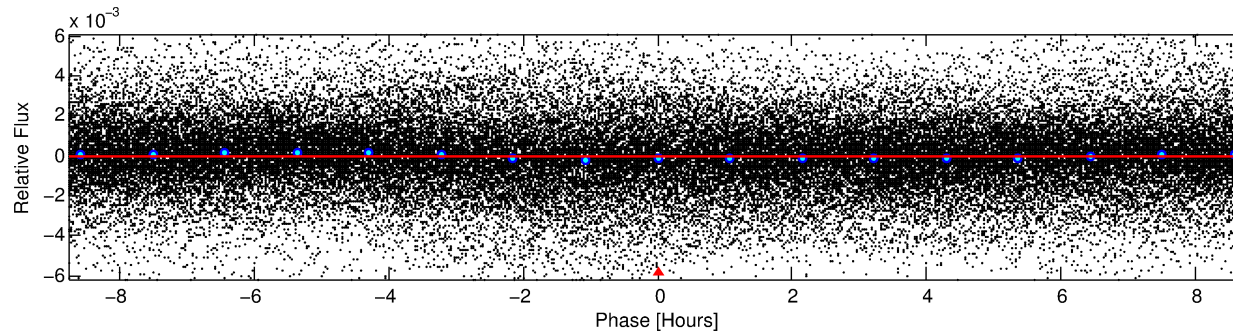
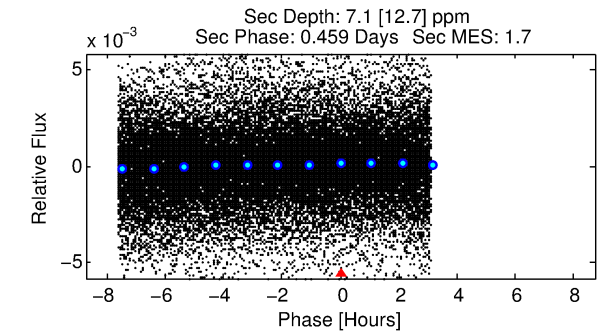
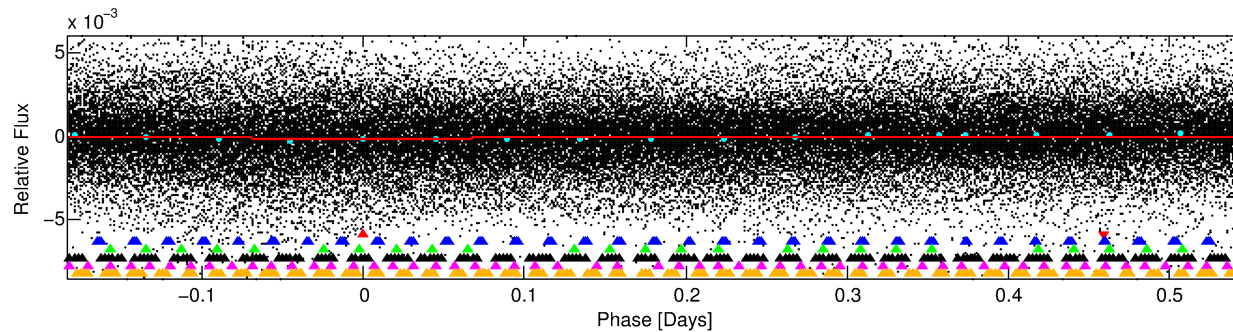
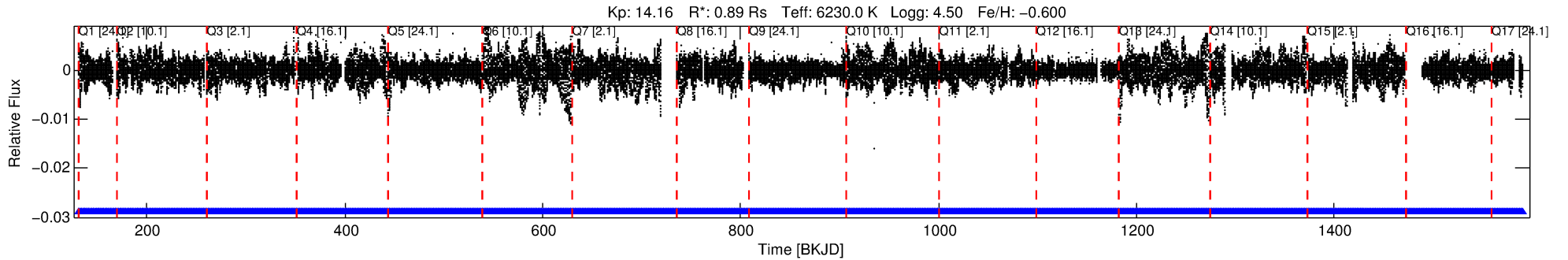
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007915824-01

No Significant Match Found

DV One-Page Summary

KIC: 7915824 Candidate: 1 of 6 Period: 0.730 d



DV Fit Results:

Period = 0.73004 [0.00002] d
Epoch = 131.9492 [0.0024] BKJD
Rp/R* = 0.0094 [0.0018]
a/R* = 1.06 [0.08]
b = 0.90 [0.15]
Seff = 4487.09 [1694.24]
Teff = 2087 [197] K
Rp = 0.91 [0.31] Re
a = 0.0155 [0.0037] AU
Ag = 1.13 [2.10] [0.06σ]
Teffp = 3324 [1523] K [0.81σ]

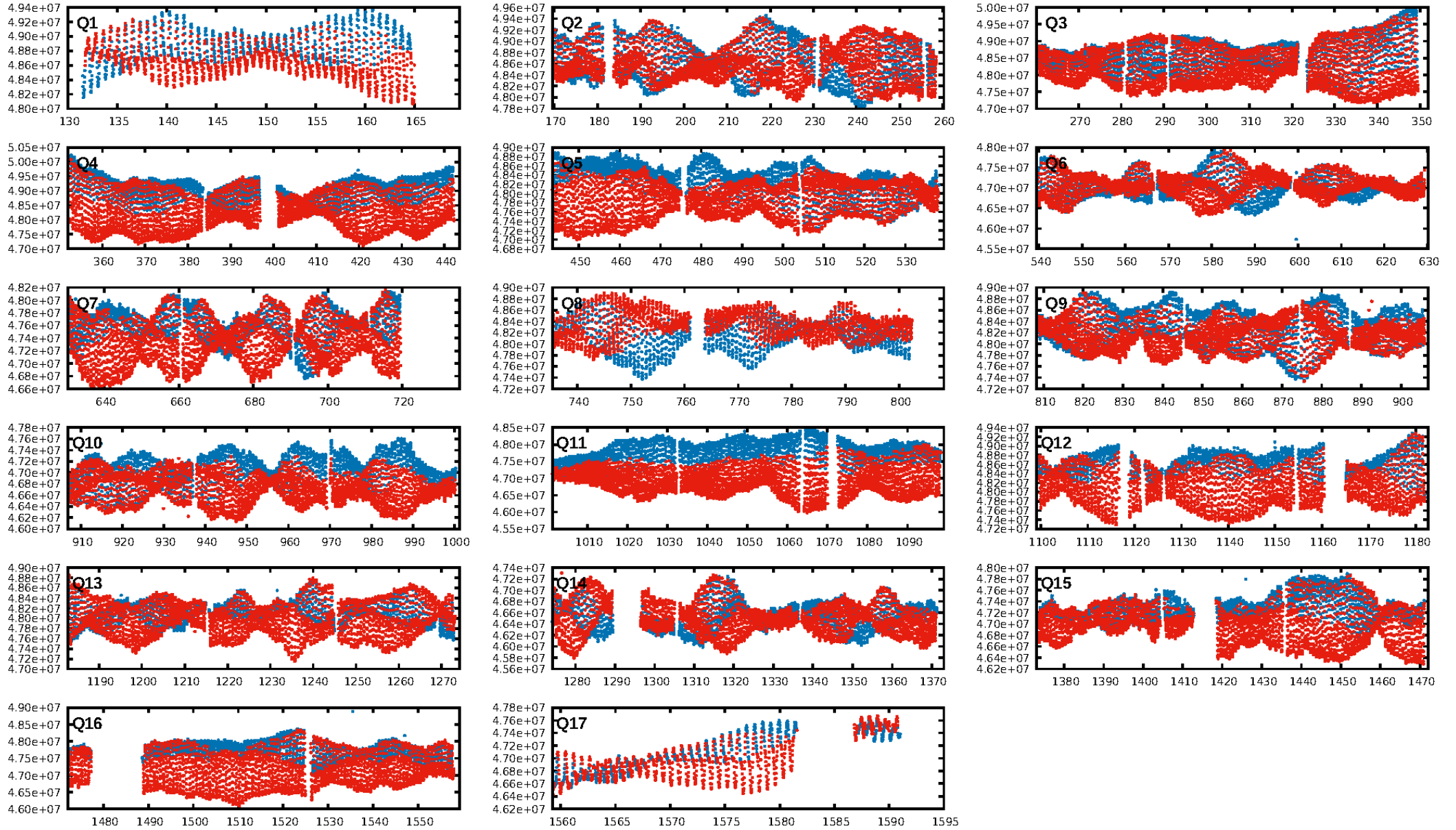
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [31.13σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.95e-09
RollingBand-fgt: 1.00 [1762/1762]
GhostDiagnostic-chr: 1.374
Centroid-sig: 0.6%
Centroid-so: 0.593 arcsec [1.36σ]
OotOffset-rm: 0.040 arcsec [0.58σ]
KicOffset-rm: 0.079 arcsec [0.83σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.94 [16/17]
DiffImageOverlap-fno: 1.00 [17/17]

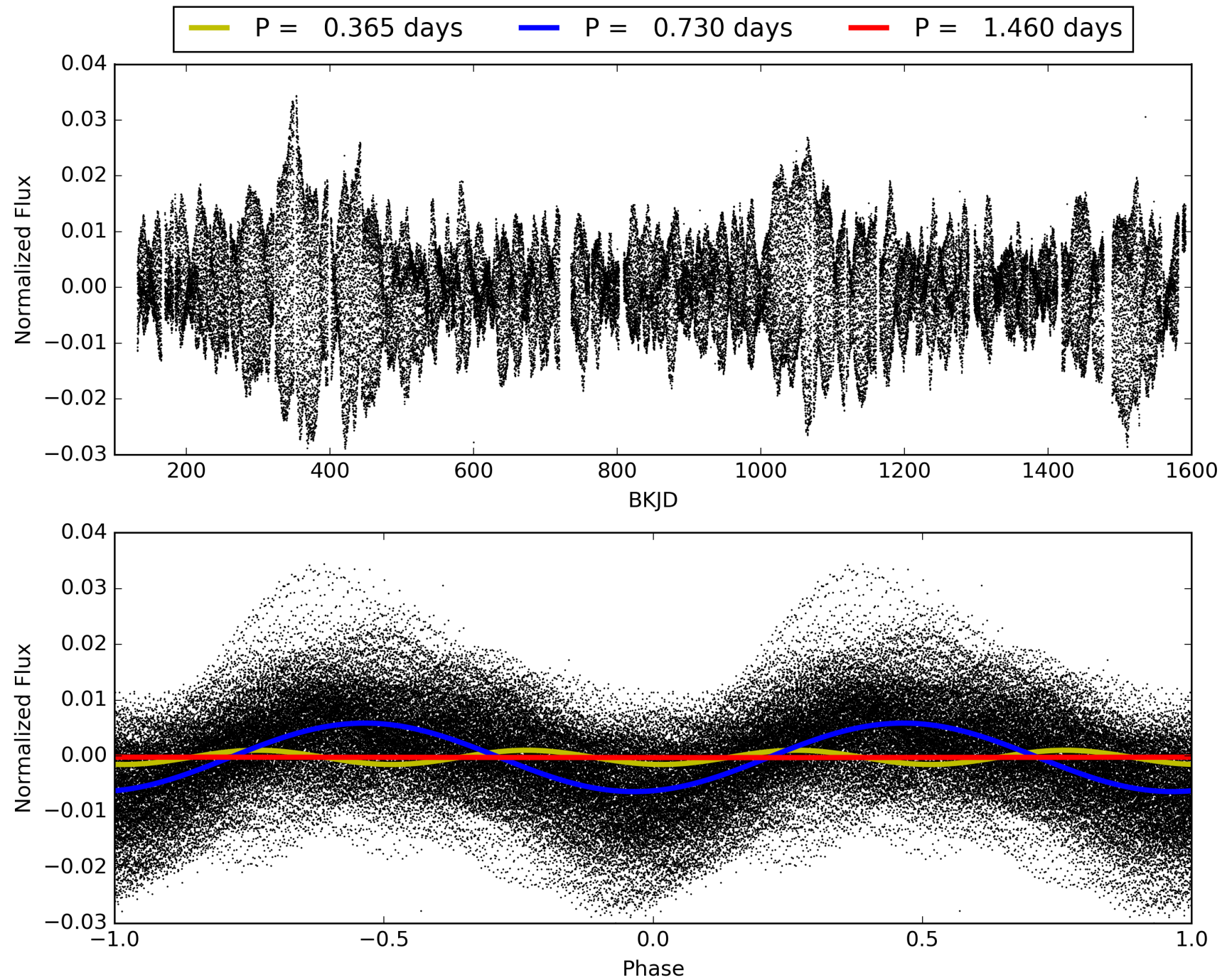
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007915824-01, PDC Light Curves

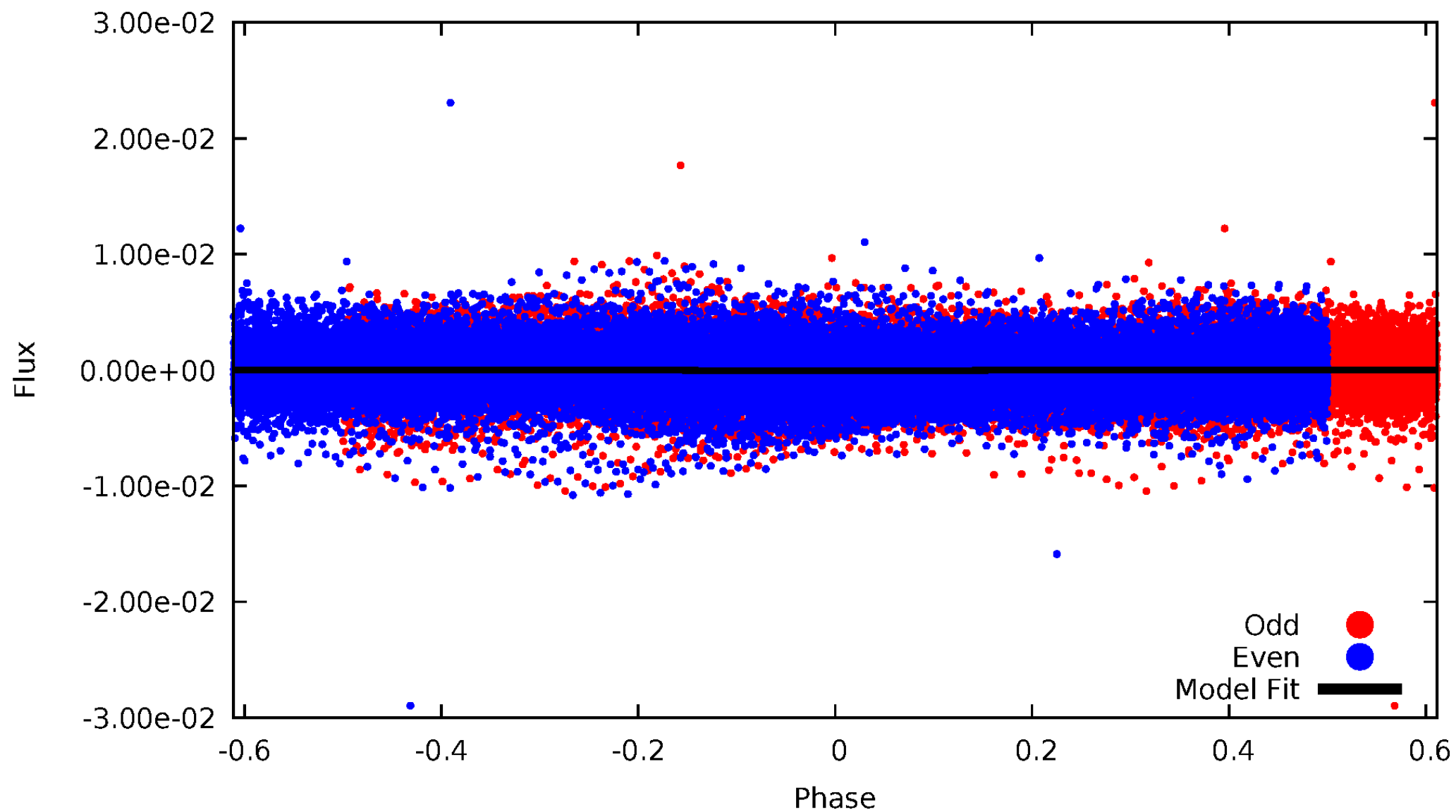


TCE 007915824-01



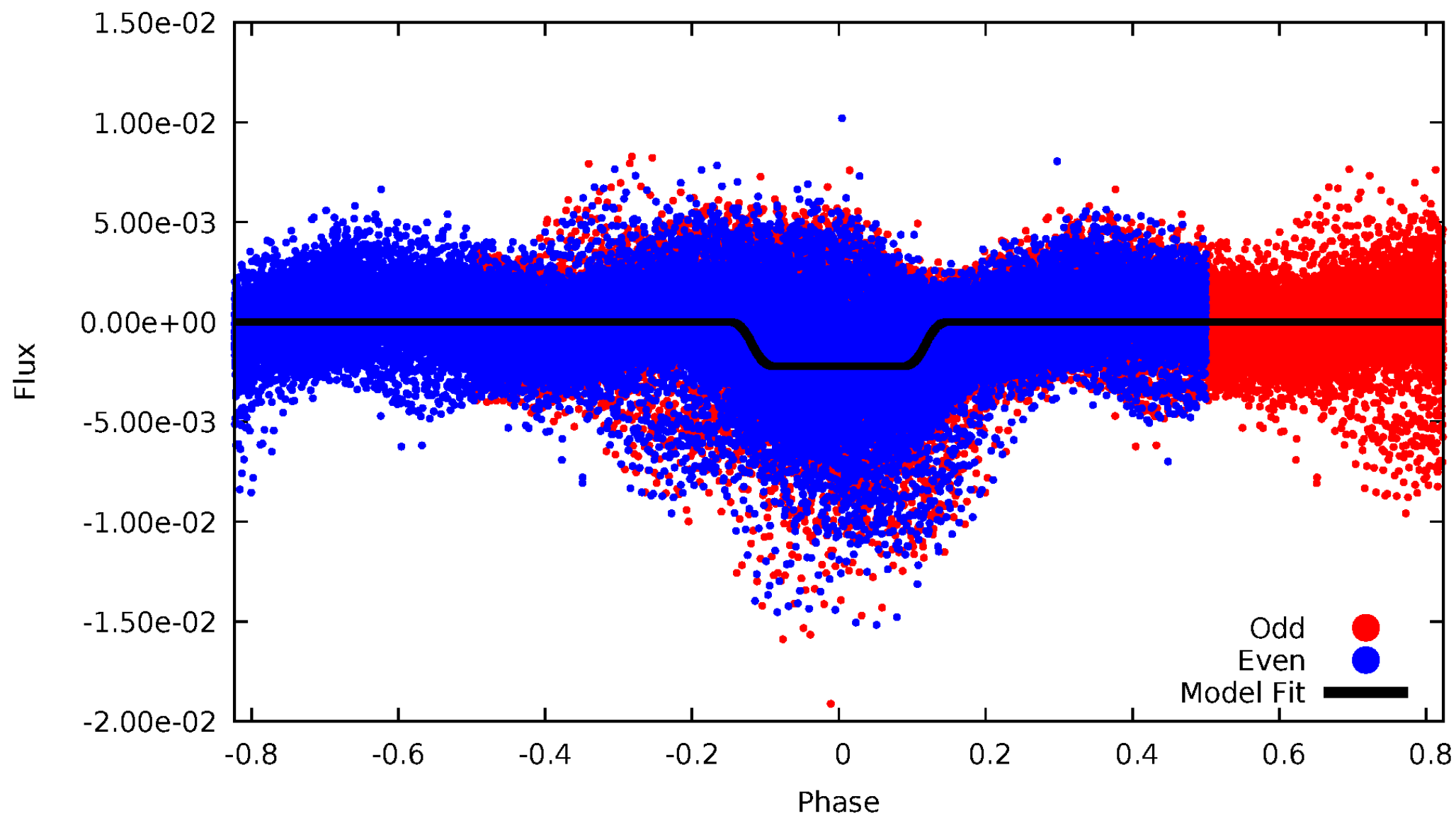
DV Odd/Even

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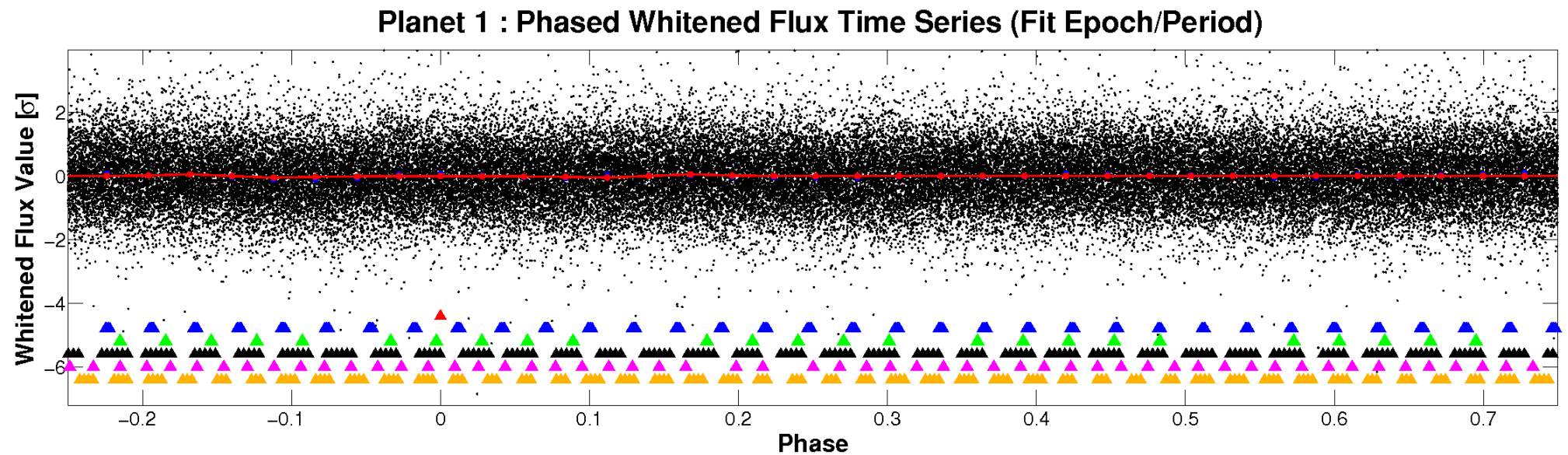
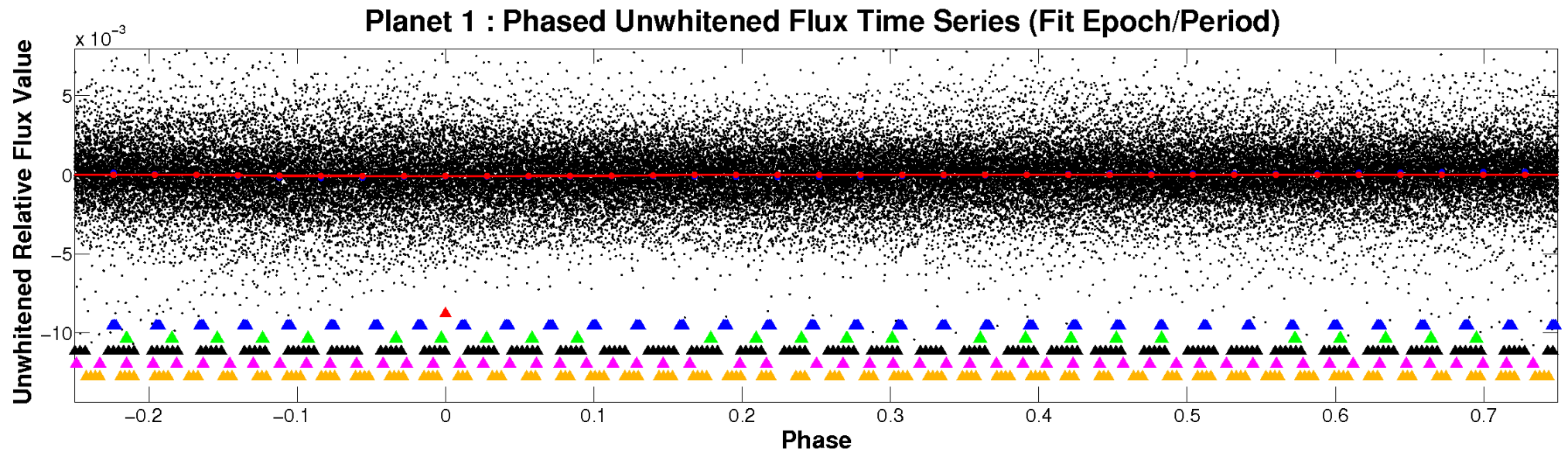


ALT Odd/Even

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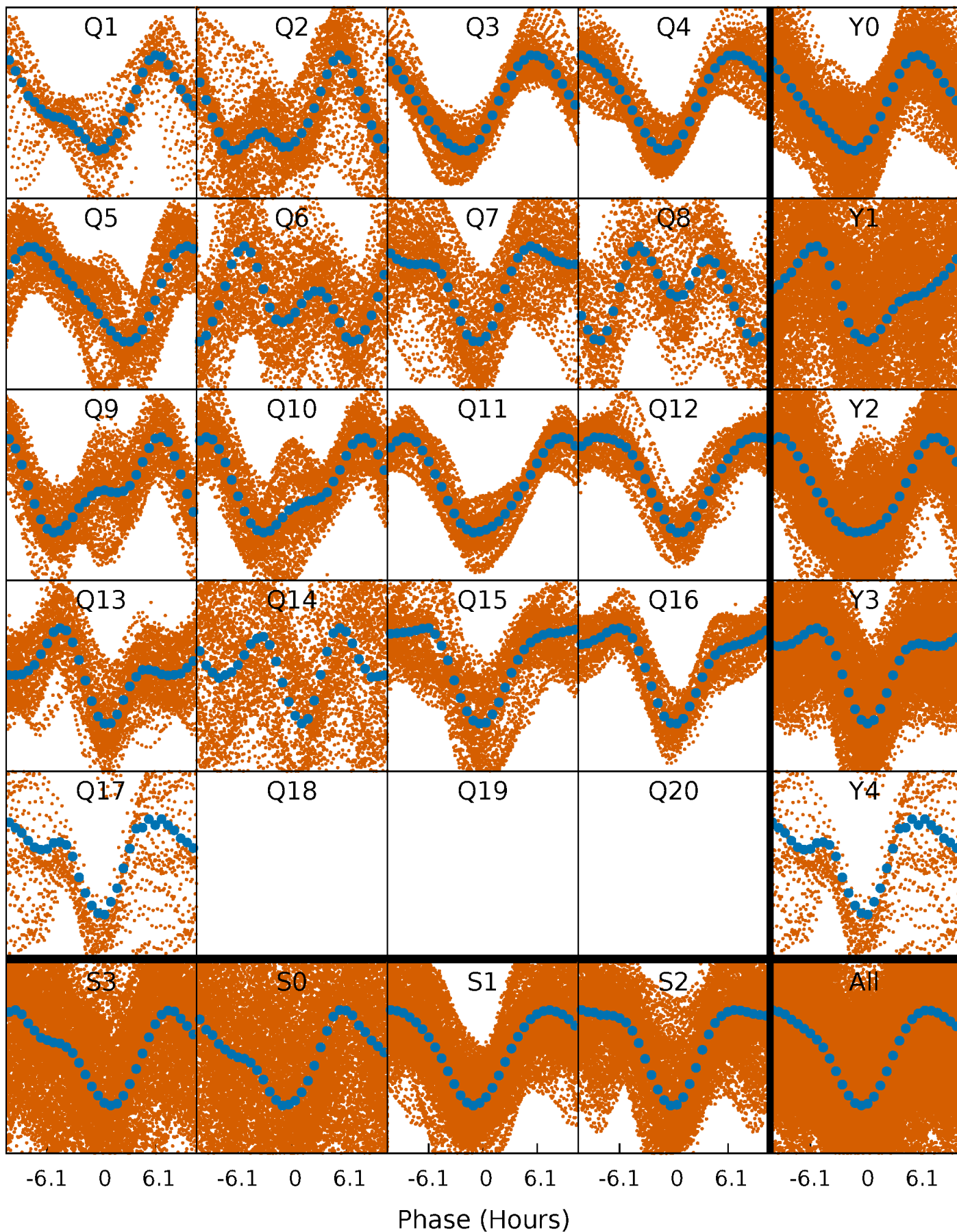


Non-Whitened Vs. Whitened Light Curve



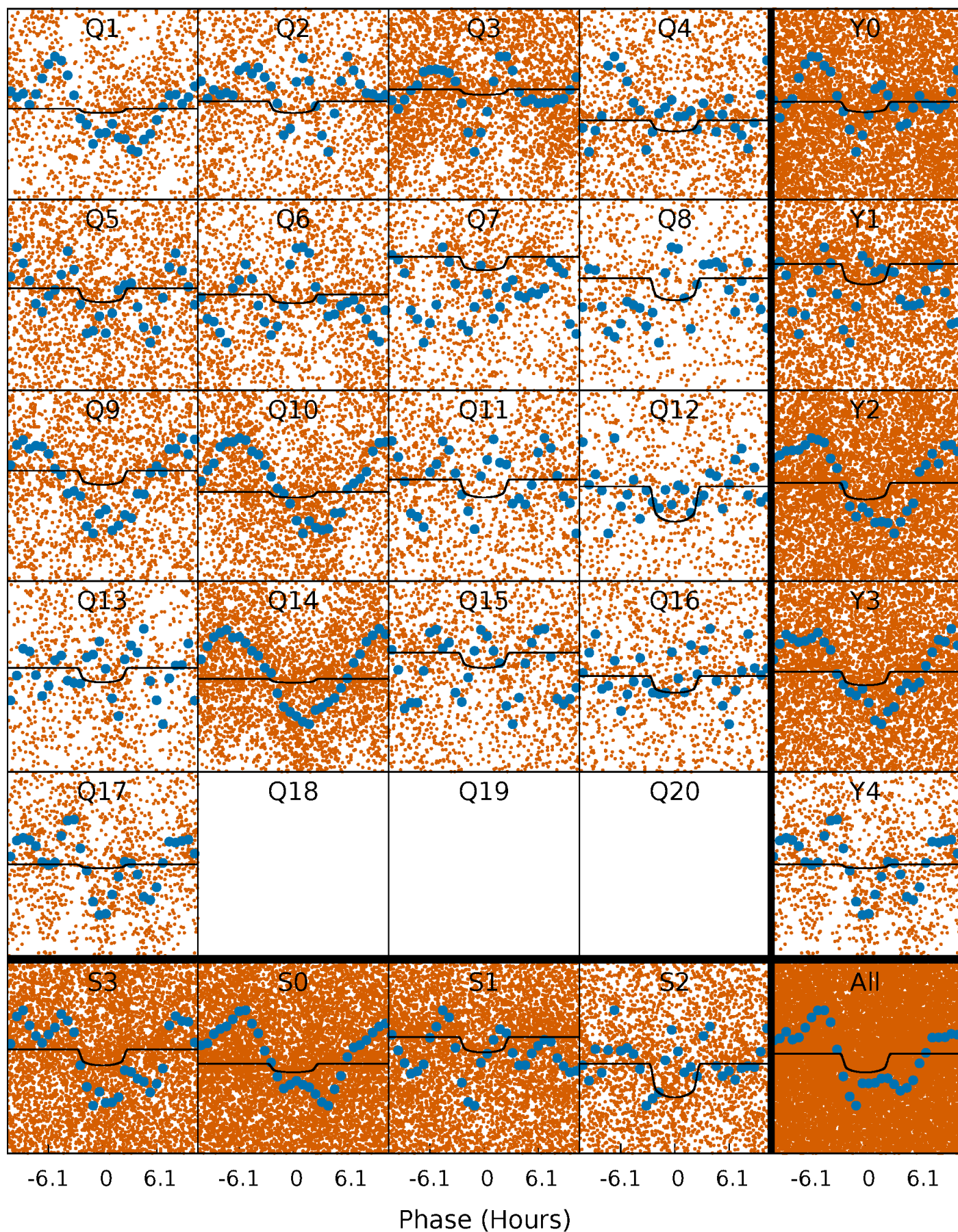
PDC Quarter-Phased Transit Curves

TCE 007915824-01 P= 0.730035 Days $T_0=131.949210$ (BKJD)



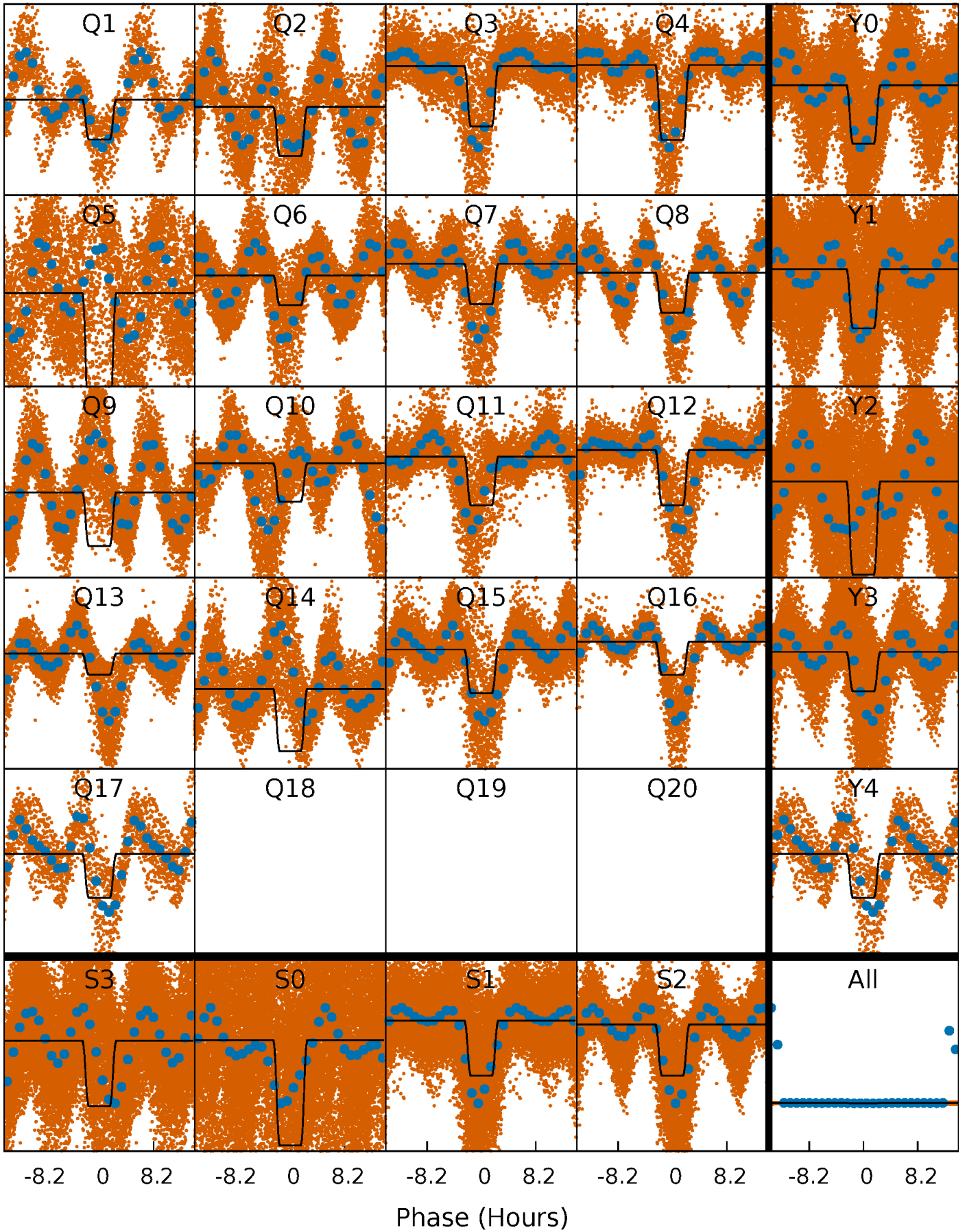
DV Quarter-Phased Transit Curves

TCE 007915824-01 P= 0.730035 Days $T_0=131.949210$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

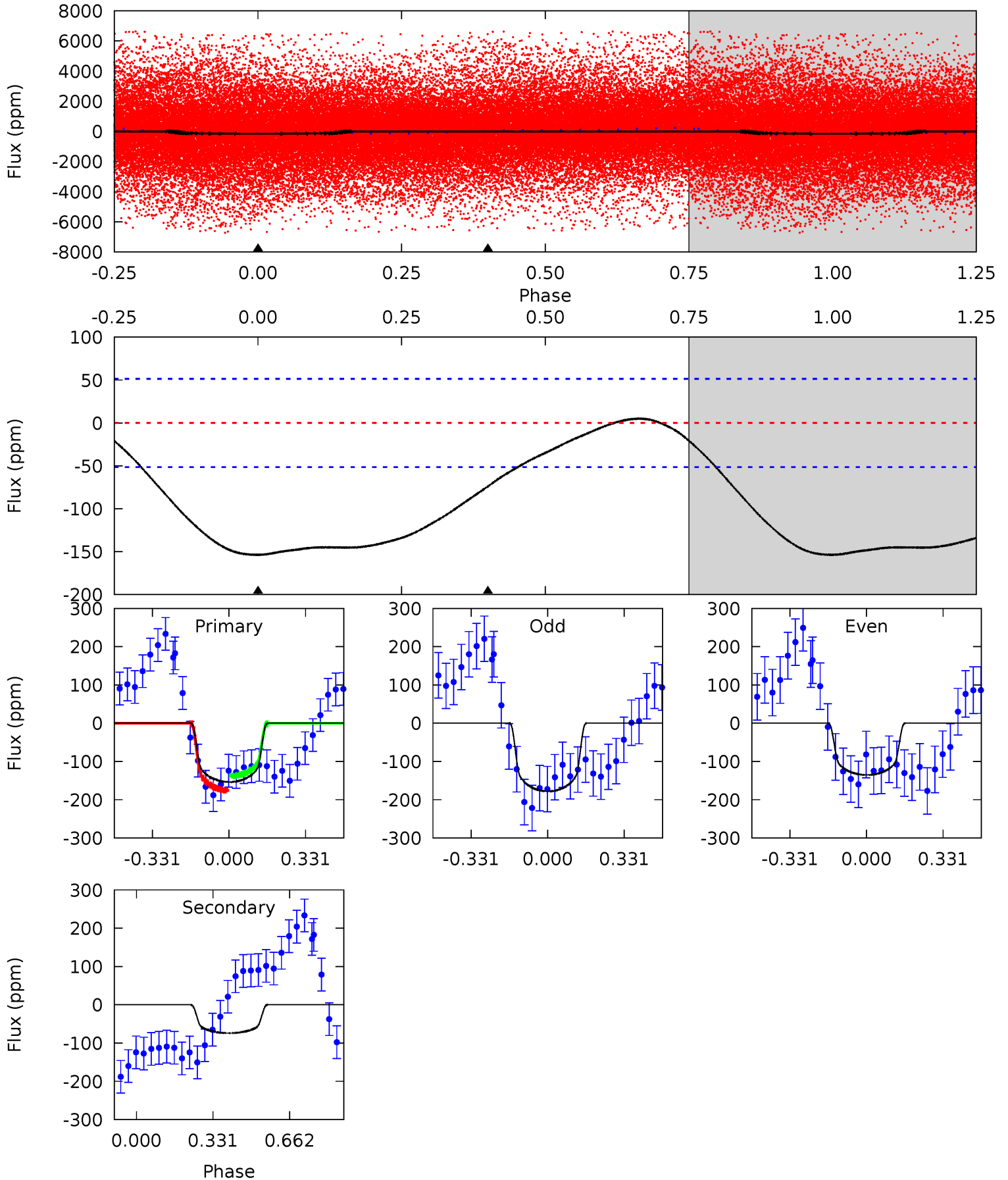
TCE 007915824-01 P= 0.730013 Days $T_0=131.941442$ (BKJD)



DV Model-Shift Uniqueness Test

007915824-01, P = 0.730035 Days, E = 131.219175 Days

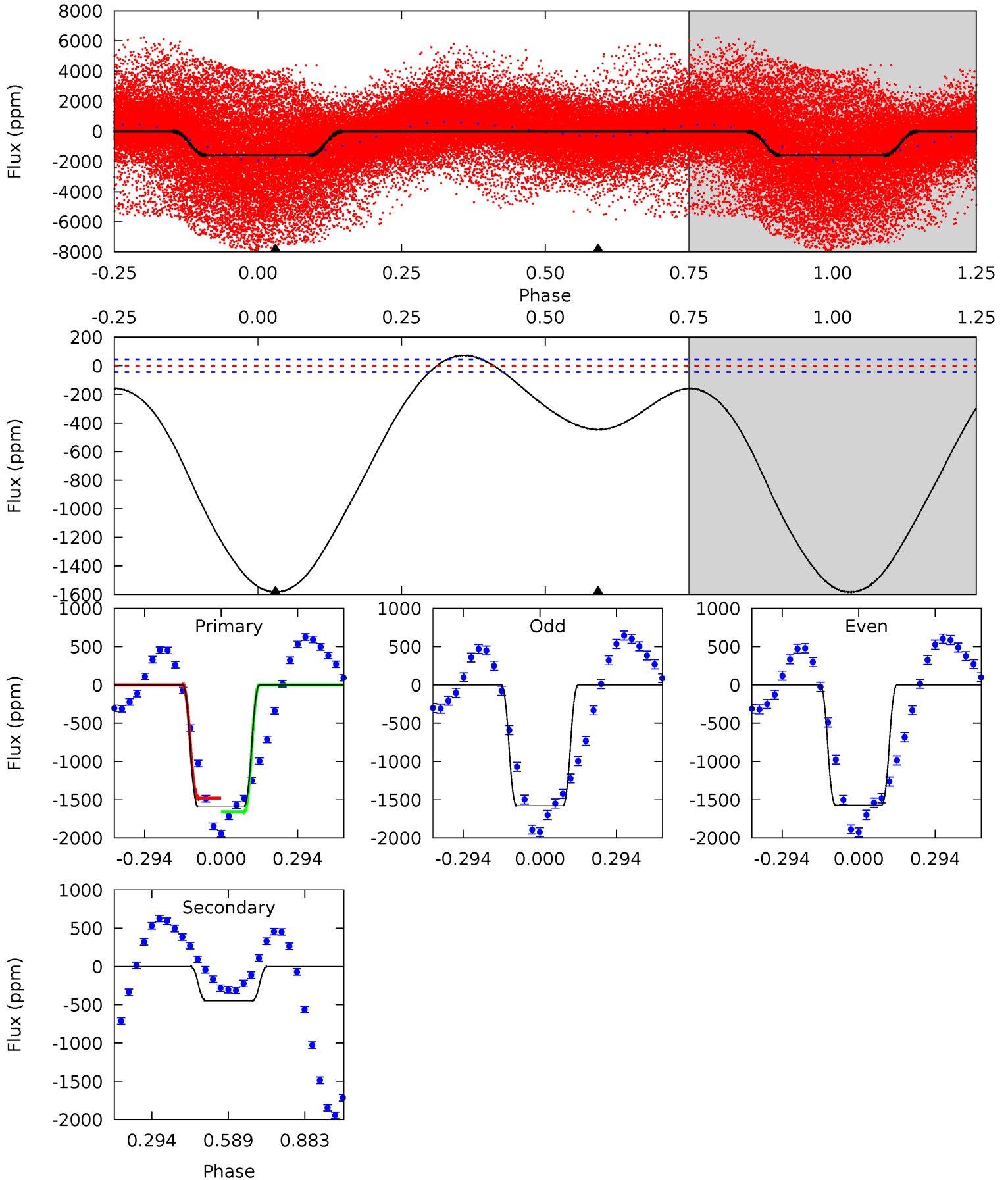
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.9	6.20	0	0	4.31	0.97	0.65	12.9	12.9	6.20	6.20	1.74	1.34	0.03	1.55



Alt Model-Shift Uniqueness Test

007915824-01, P = 0.730013 Days, E = 131.211429 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
151.7	42.8	0	0	4.33	1.05	8.51	151.7	151.7	42.8	42.8	0.40	1.11	0.04	6.68



Stellar Parameters For KIC 007915824

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6230^{+169}_{-206}	$4.504^{+0.065}_{-0.195}$	$-0.600^{+0.300}_{-0.300}$	$0.892^{+0.252}_{-0.084}$	$0.926^{+0.104}_{-0.104}$	$1.838^{+0.478}_{-0.921}$
	+3%/-3%	+1%/-4%	+50%/-50%	+28%/-9%	+11%/-11%	+26%/-50%
Source	PHO1	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 007915824-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-74 ± 12	$0.93^{+0.23}_{-0.18}$	2963^{+200}_{-139}	5943^{+764}_{-602}	11^{+7}_{-4}
Alt.	-447 ± 10	$4.68^{+0.70}_{-0.40}$	2966^{+185}_{-138}	4290^{+111}_{-120}	$2.639^{+0.483}_{-0.575}$

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

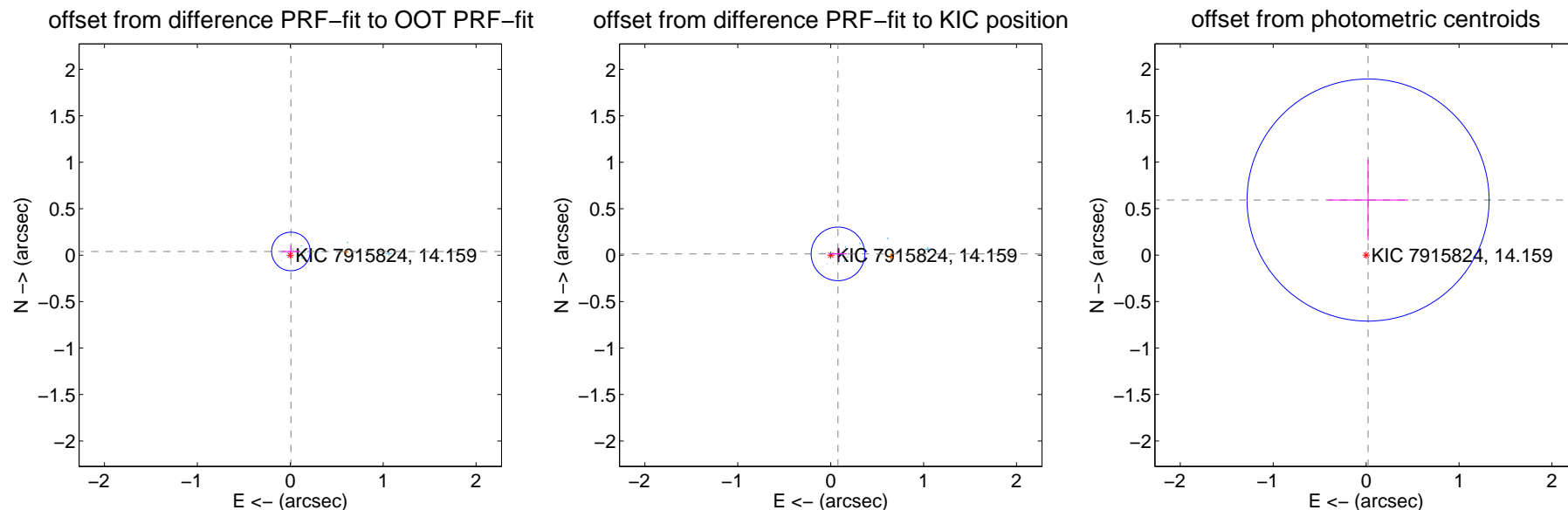
DV Centroid Data

Supplemental centroid analysis for 007915824-01. Kepler magnitude: 14.16. Transit SNR 5.74

There are 16 quarters with good PRF difference image offsets

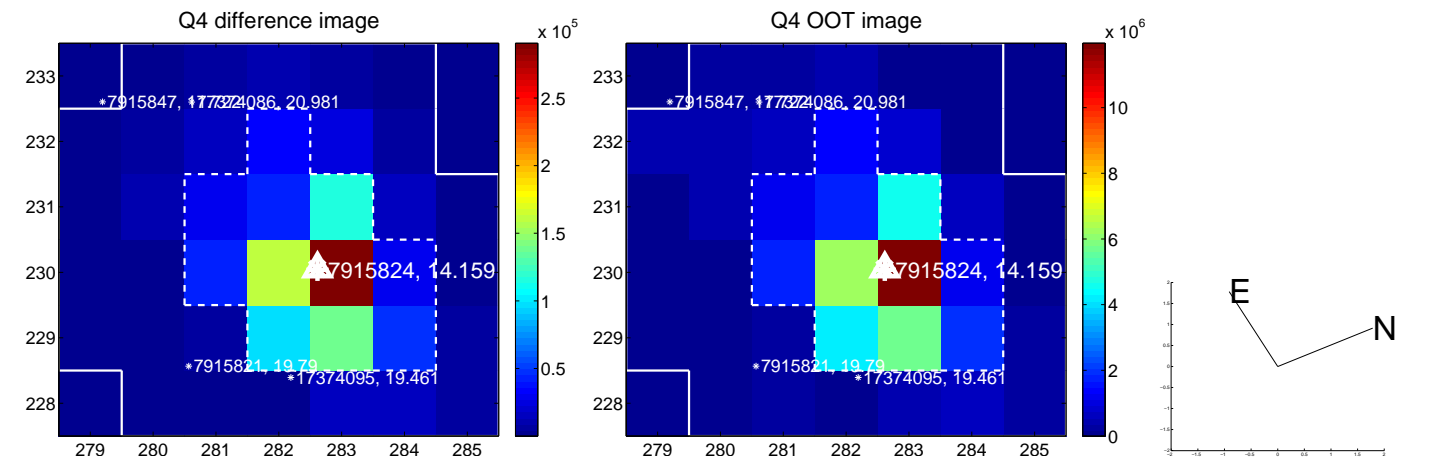
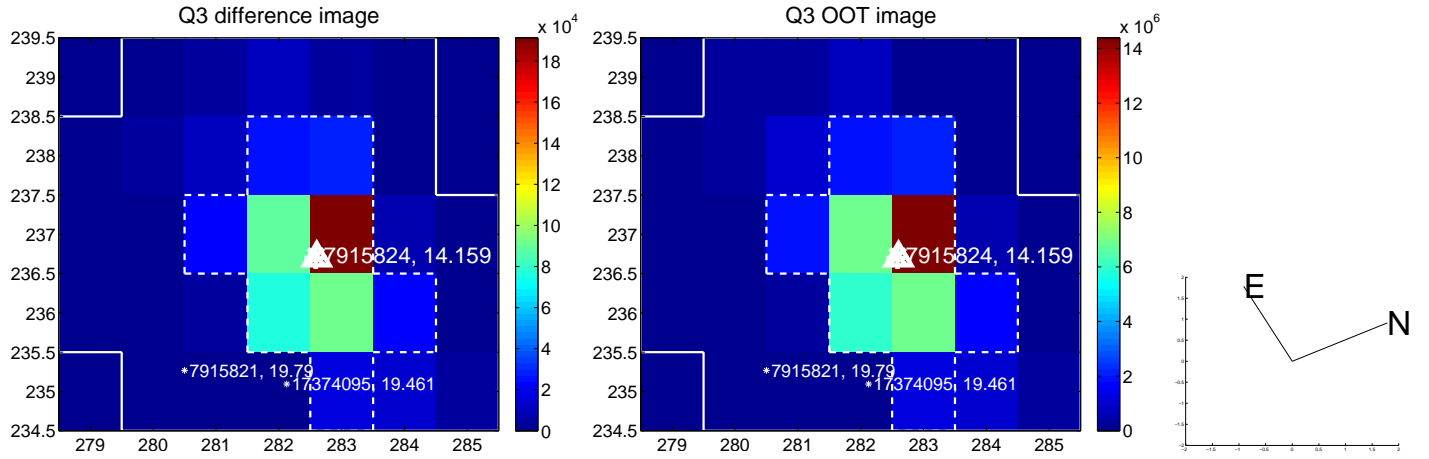
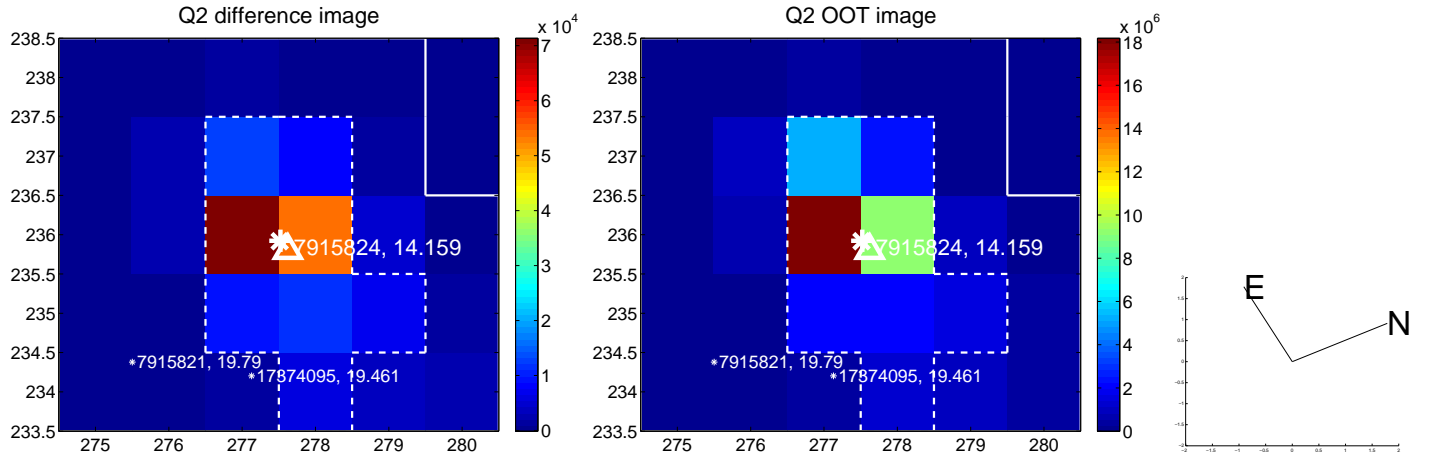
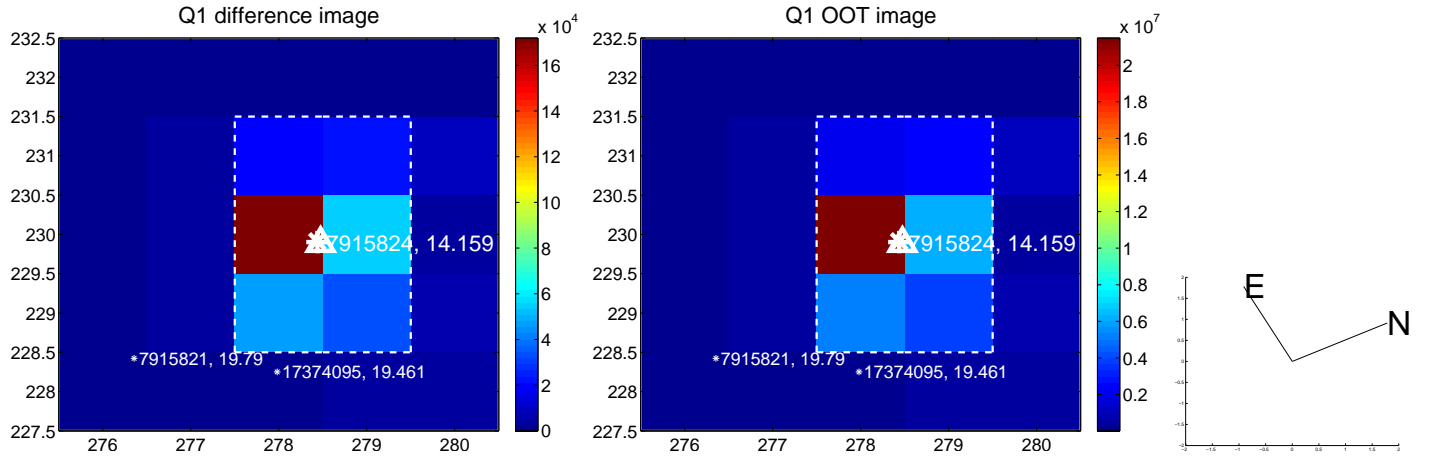
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.040 ± 0.069	0.58	-0.007 ± 0.099	0.040 ± 0.068
PRF-fit source offset from KIC position	0.079 ± 0.096	0.83	-0.078 ± 0.096	0.014 ± 0.069
photometric centroid source offset	0.59 ± 0.43	1.36	-0.02 ± 0.43	0.59 ± 0.43

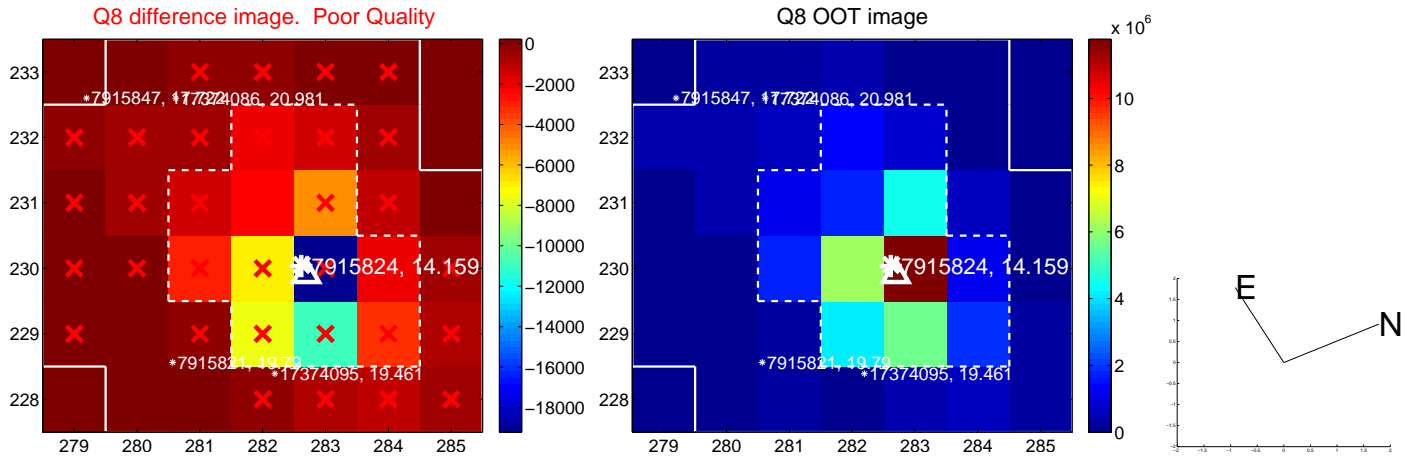
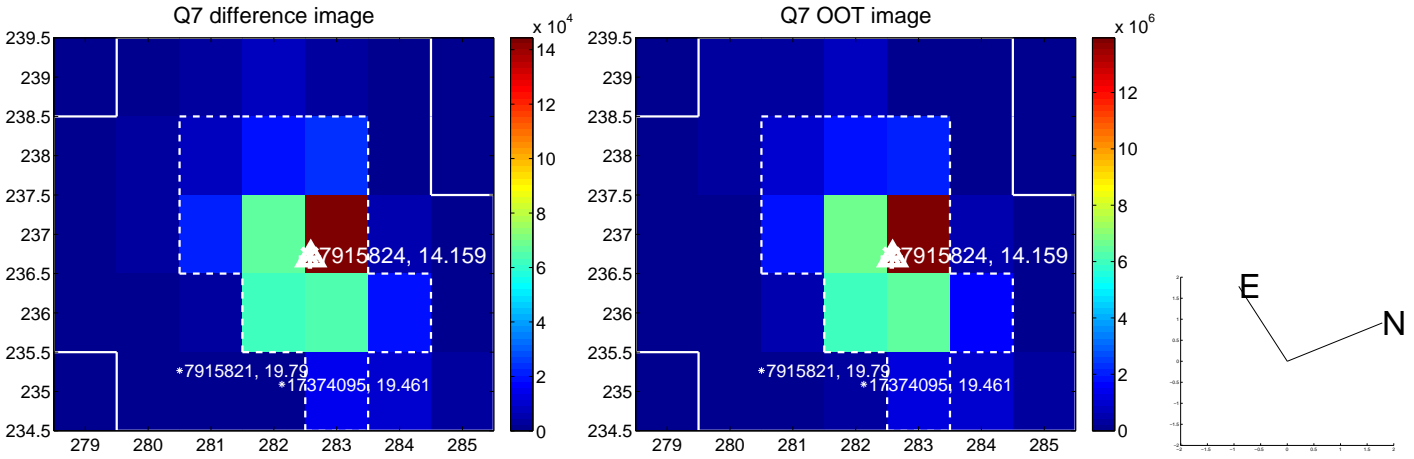
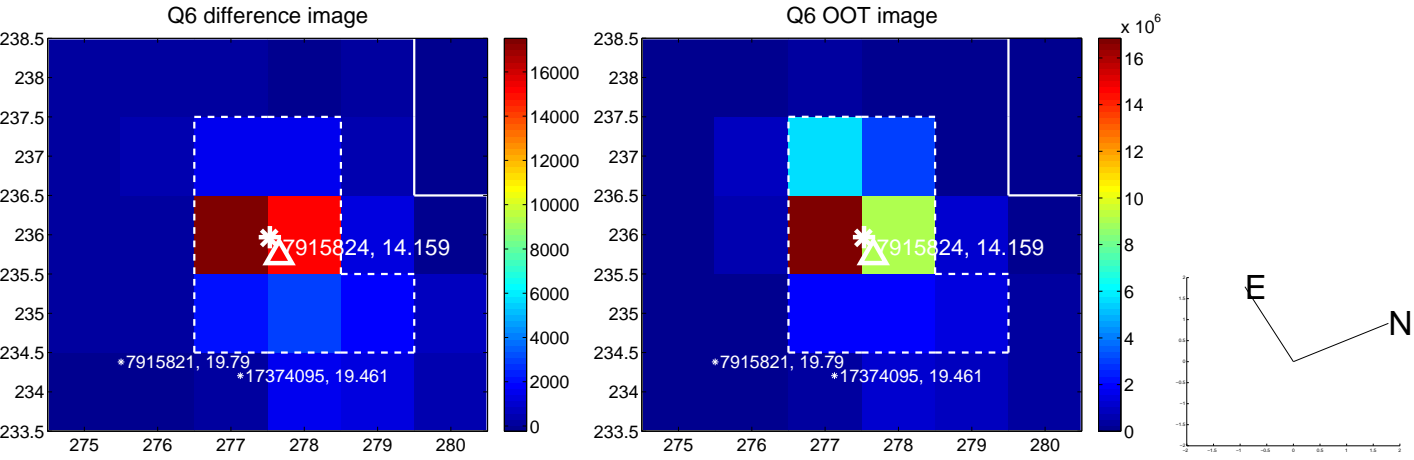
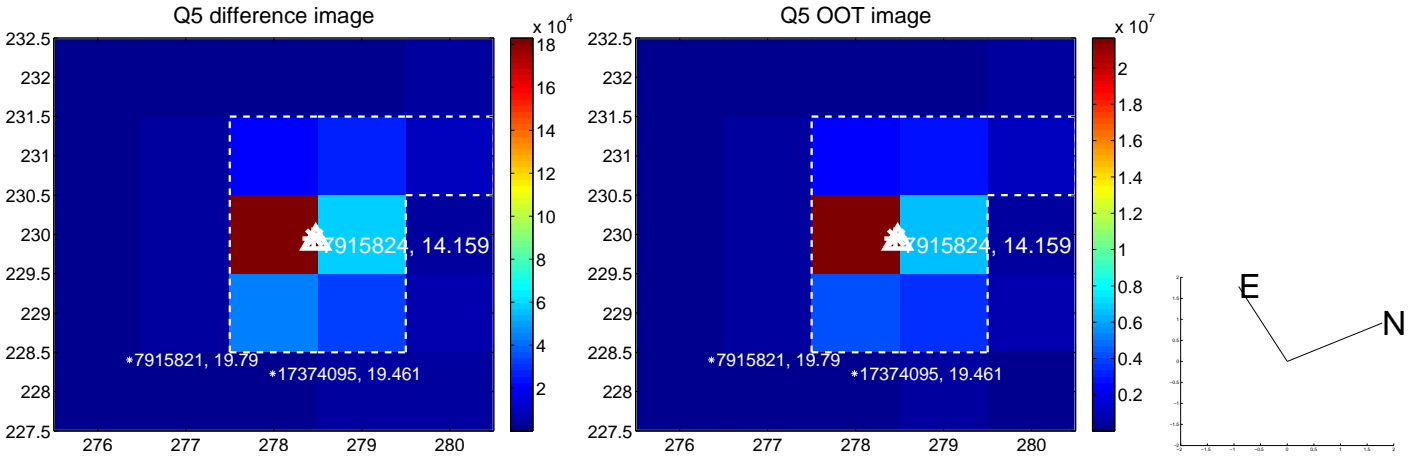


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

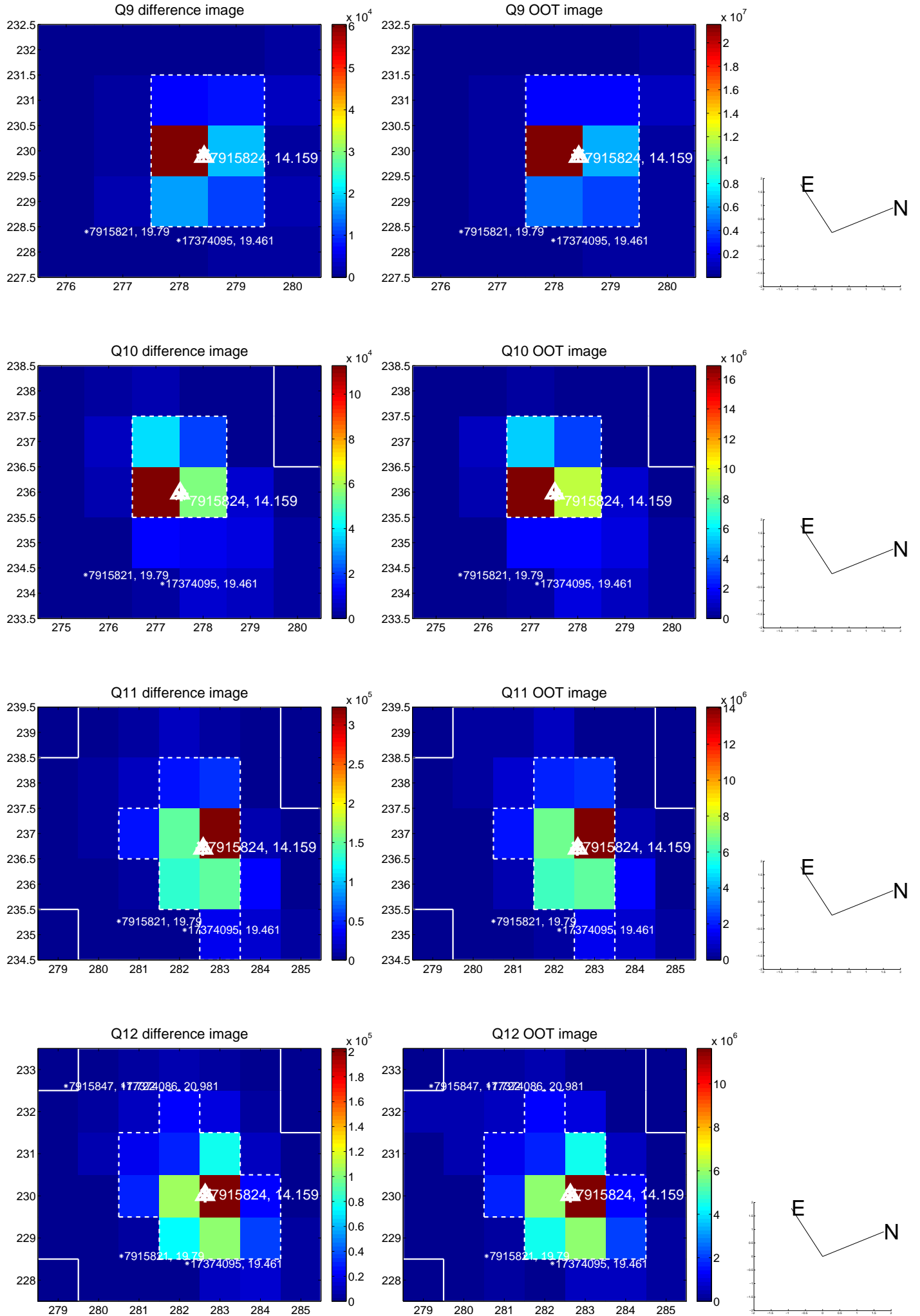
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



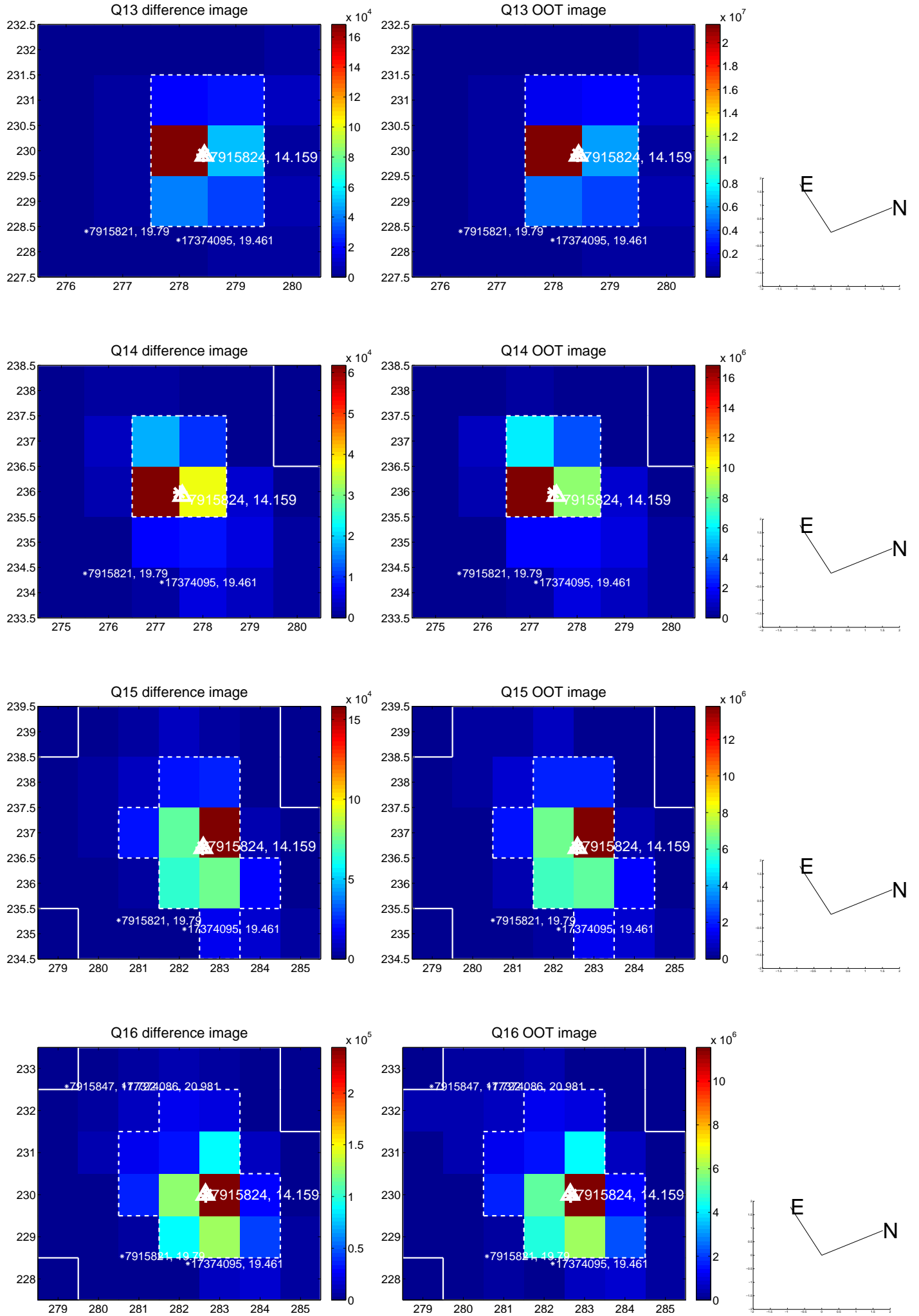
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



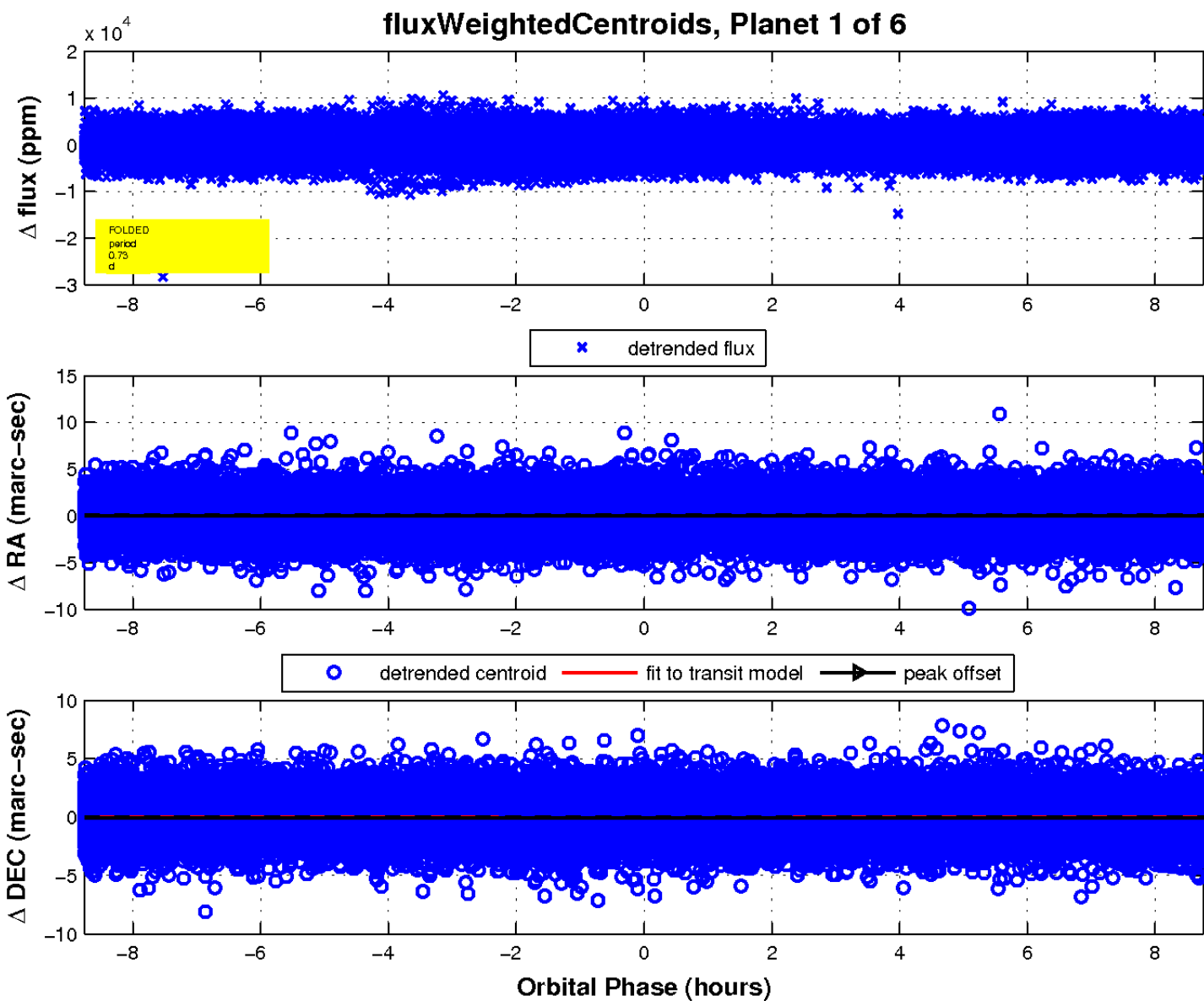
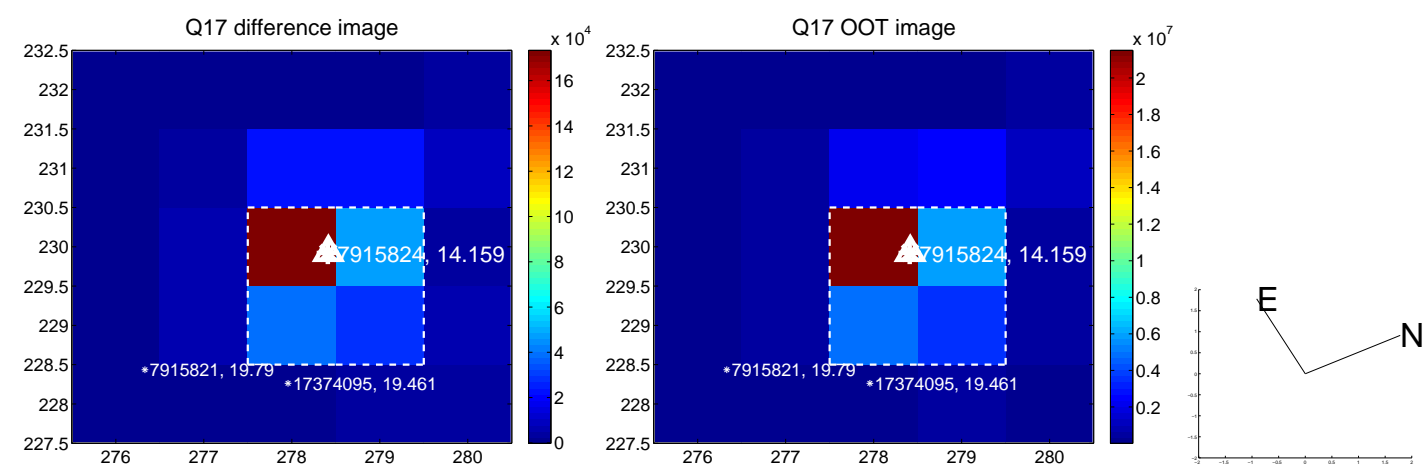
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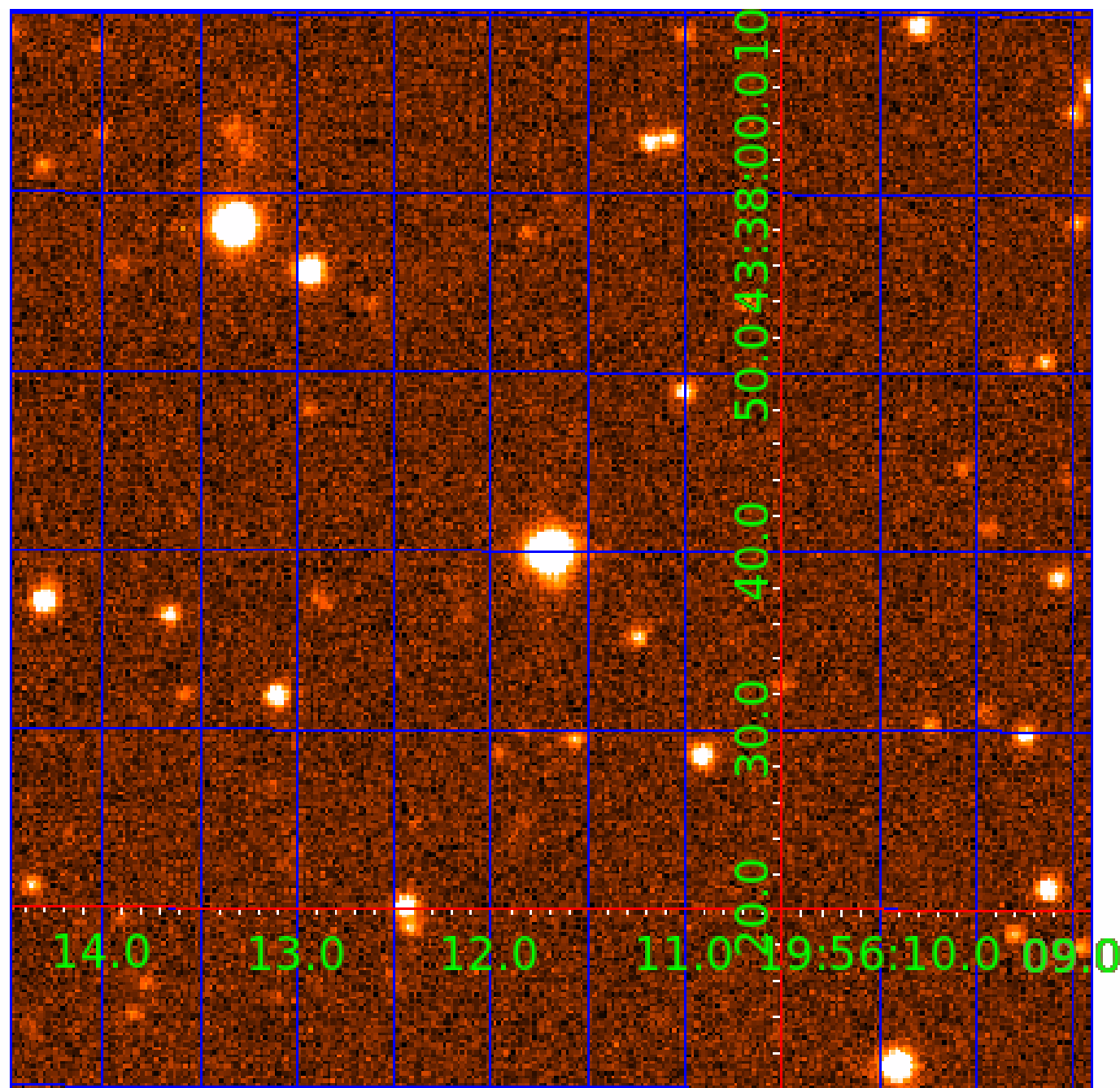


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007915824

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})
007915824-01	OBS	No	0.730035	131.949210	76.1	5.355	8.1	5.7	0.89	6230	0.91	4487.09
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007915824-03	OBS	No	57.230318	177.873764	4620.7	5.298	11.6	10.8	0.89	6230	10.70	13.37
007915824-04	OBS	No	7.941824	135.335995	1018.3	1.500	11.2	-1.0	0.89	6230	2.87	186.15
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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007915824-02	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
007915824-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES
007915824-04	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_NOFITS
007915824-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST

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

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

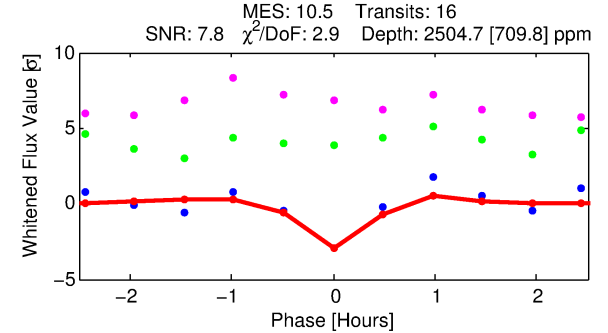
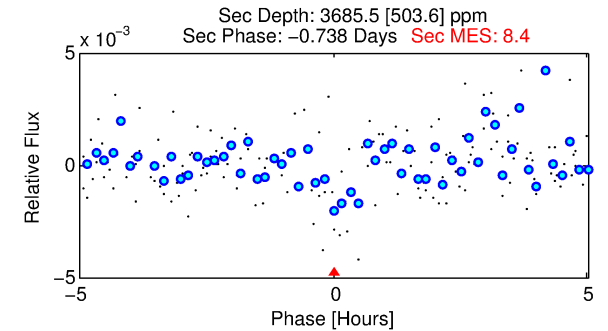
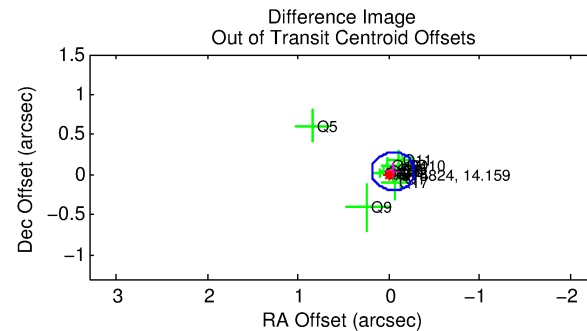
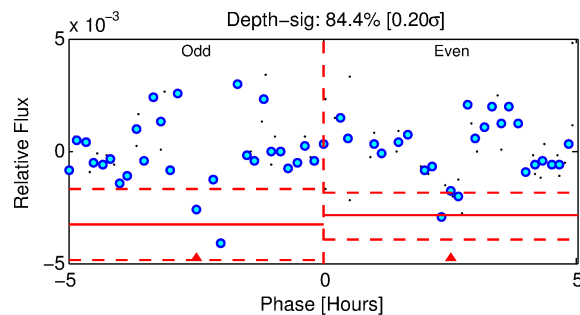
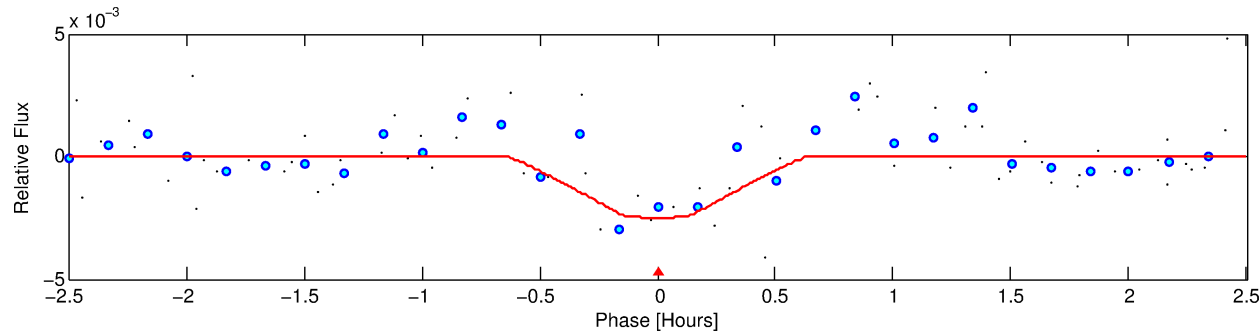
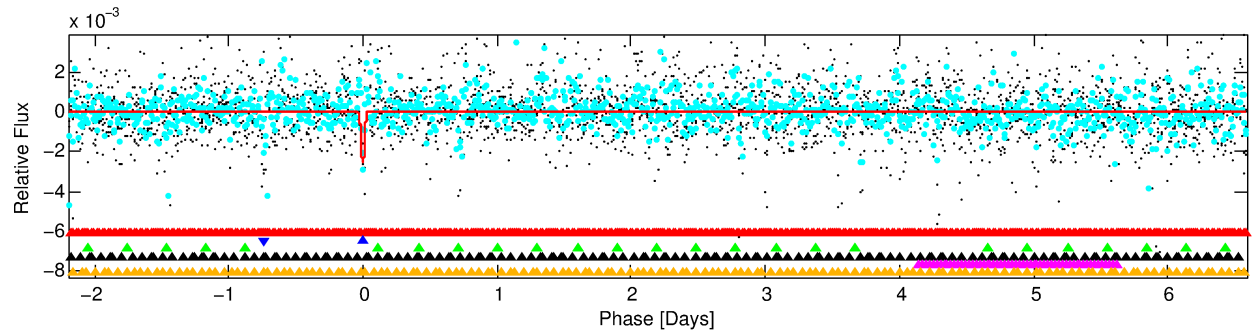
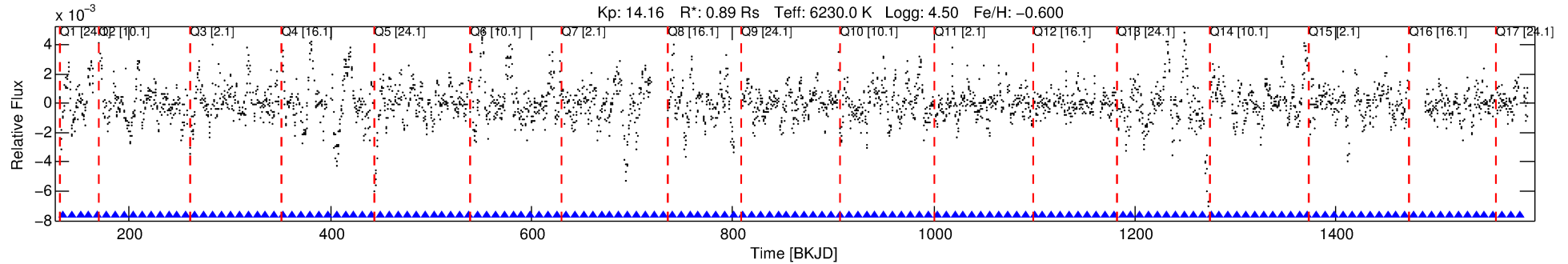
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007915824-02

No Significant Match Found

DV One-Page Summary

KIC: 7915824 Candidate: 2 of 6 Period: 8.782 d



DV Fit Results:

Period = 8.78191 [0.00009] d
Epoch = 133.8462 [0.0070] BKJD
Rp/R* = 0.0471 [0.0576]
a/R* = 80.64 [512.90]
b = 0.30 [19.78]
Seff = 162.79 [61.47]
Teq = 911 [86] K
Rp = 4.58 [5.75] Re
a = 0.0812 [0.0195] AU
Ag = 636.92 [1575.85] [0.40 σ]
Teffp = 7075 [4337] K [1.42 σ]

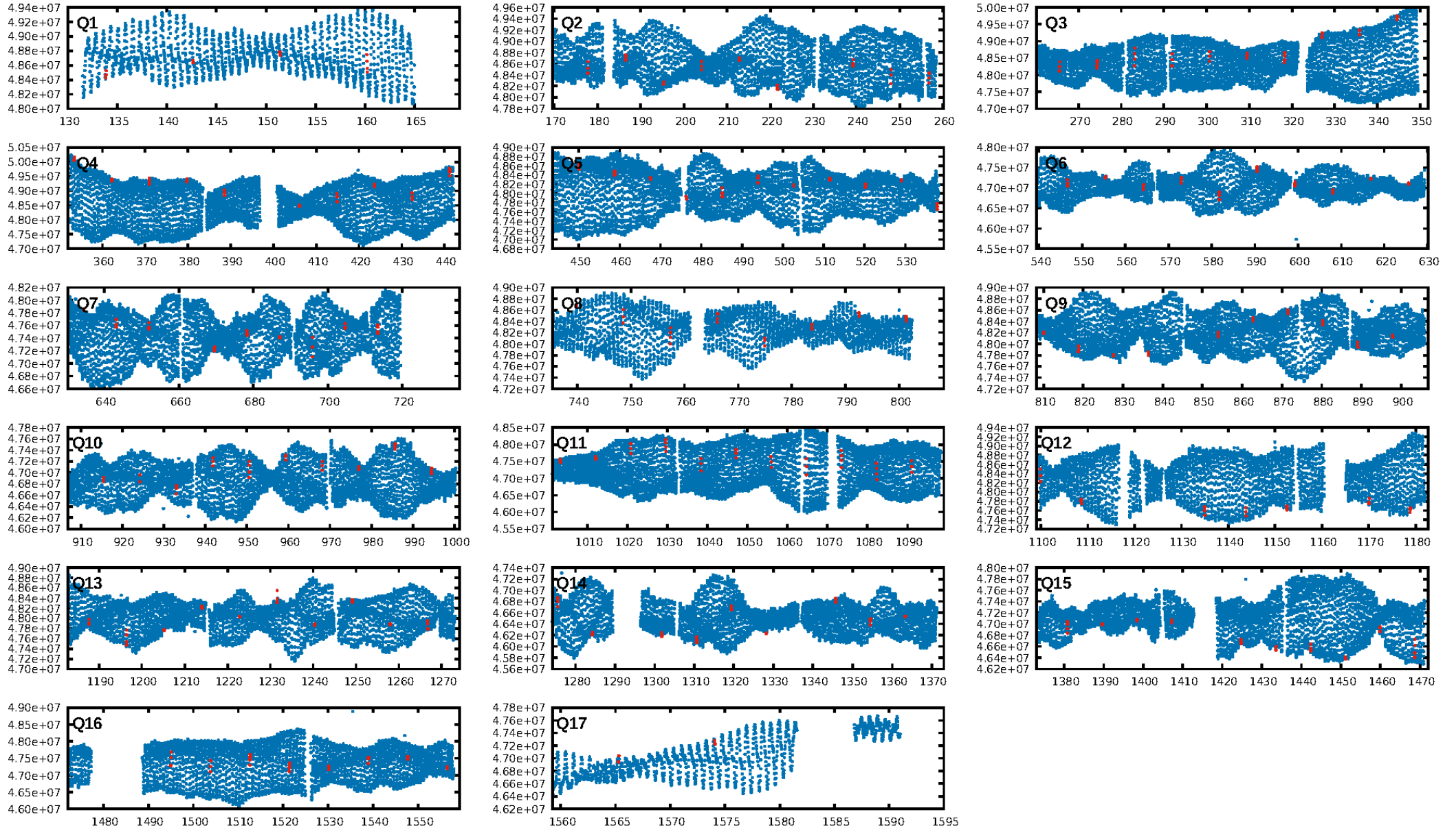
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [11.74 σ]
LongPeriod-sig: 100.0% [13.26 σ]
ModelChiSquare2-sig: 0.4%
ModelChiSquareGof-sig: 88.8%
Bootstrap-pfa: 3.37e-17
RollingBand-fgt: 1.00 [16/16]
GhostDiagnostic-chr: -1.145
Centroid-sig: 3.7%
Centroid-so: 0.243 arcsec [2.07 σ]
OotOffset-rm: 0.063 arcsec [0.80 σ]
OotOffset-st: 3/4/4/4 [15]
KicOffset-rm: 0.085 arcsec [0.93 σ]
KicOffset-st: 3/4/4/4 [15]
DiffImageQuality-fgm: 0.47 [7/15]
DiffImageOverlap-fno: 0.29 [5/17]

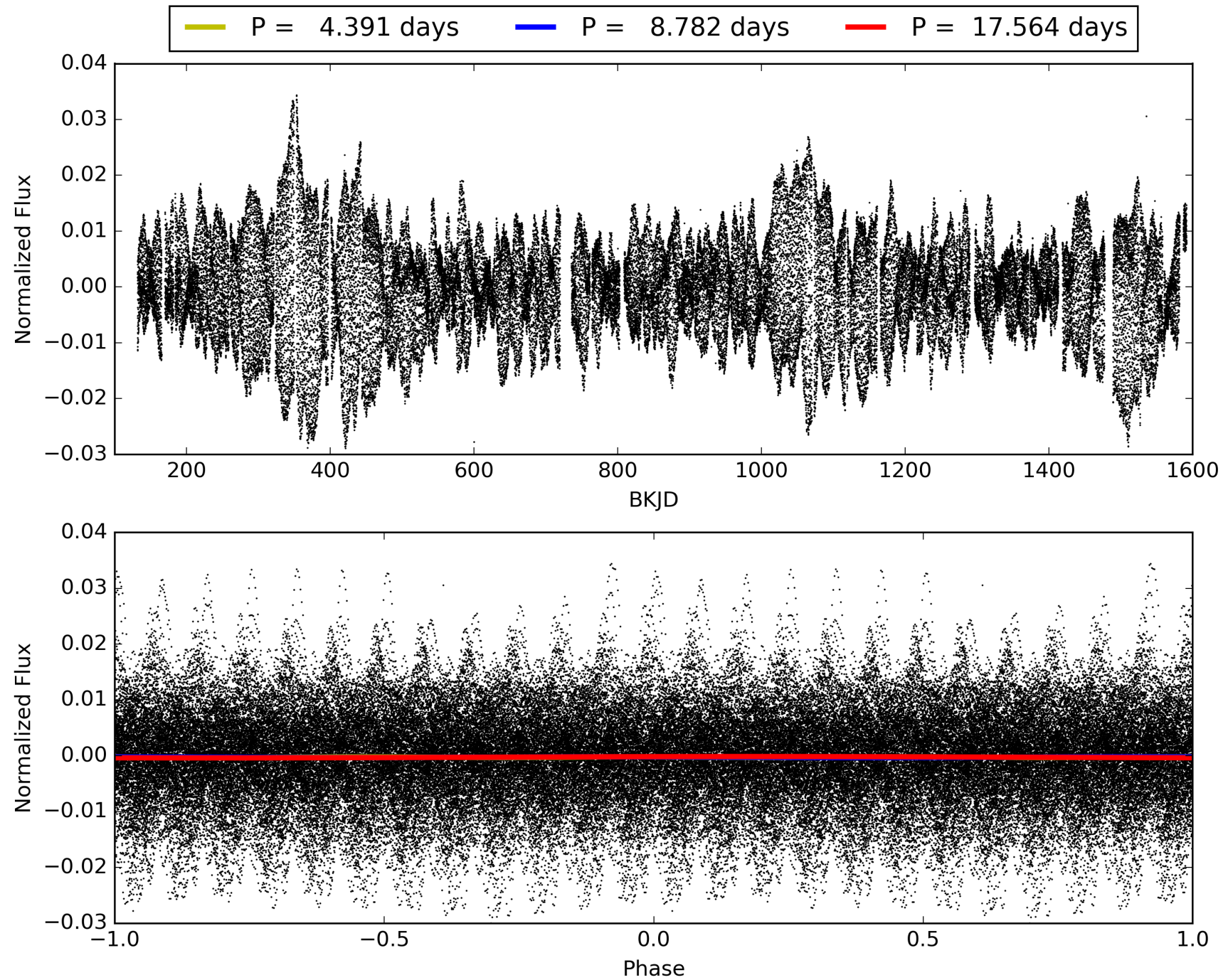
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:54:41 Z

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

TCE 007915824-02, PDC Light Curves

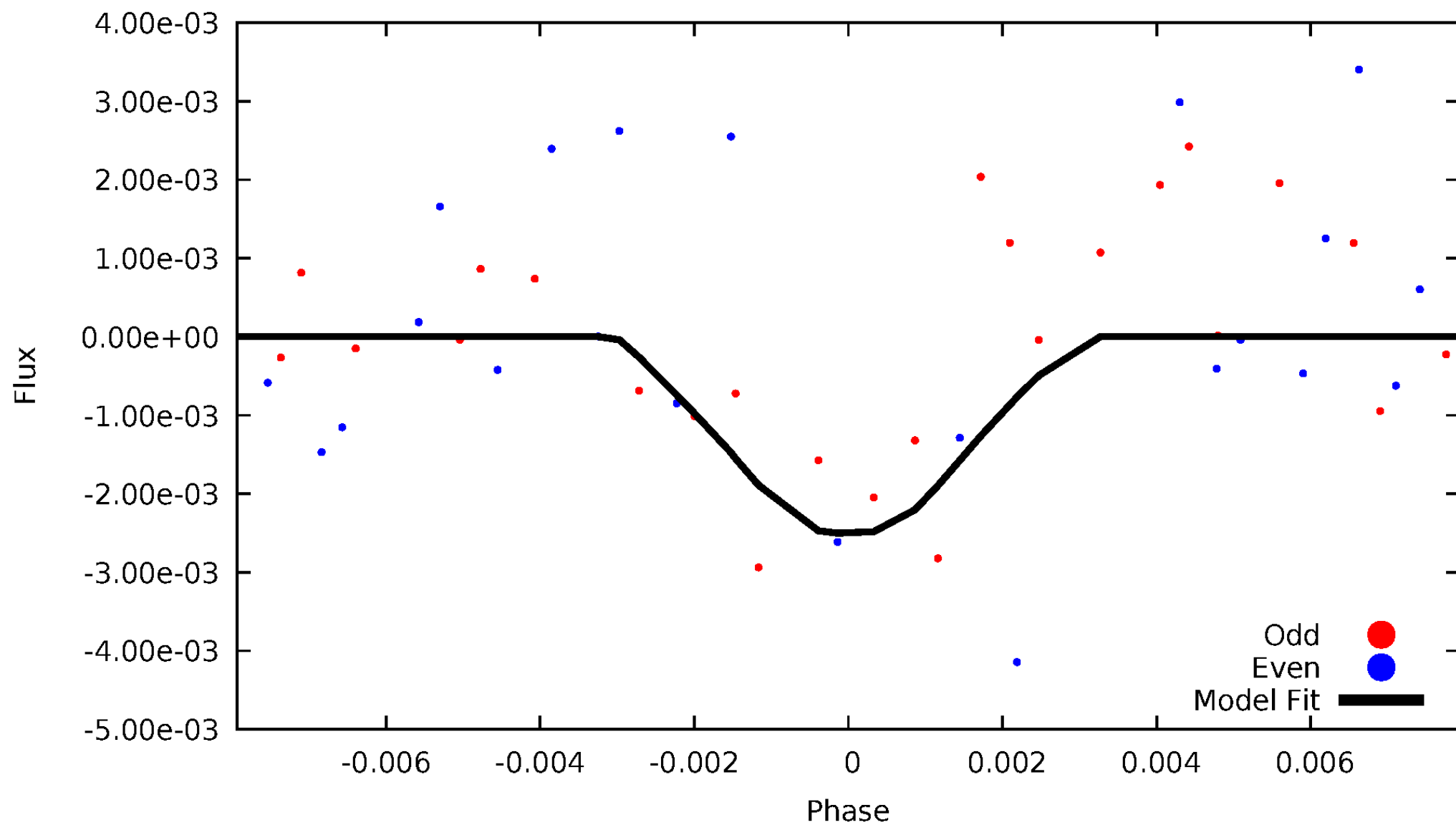


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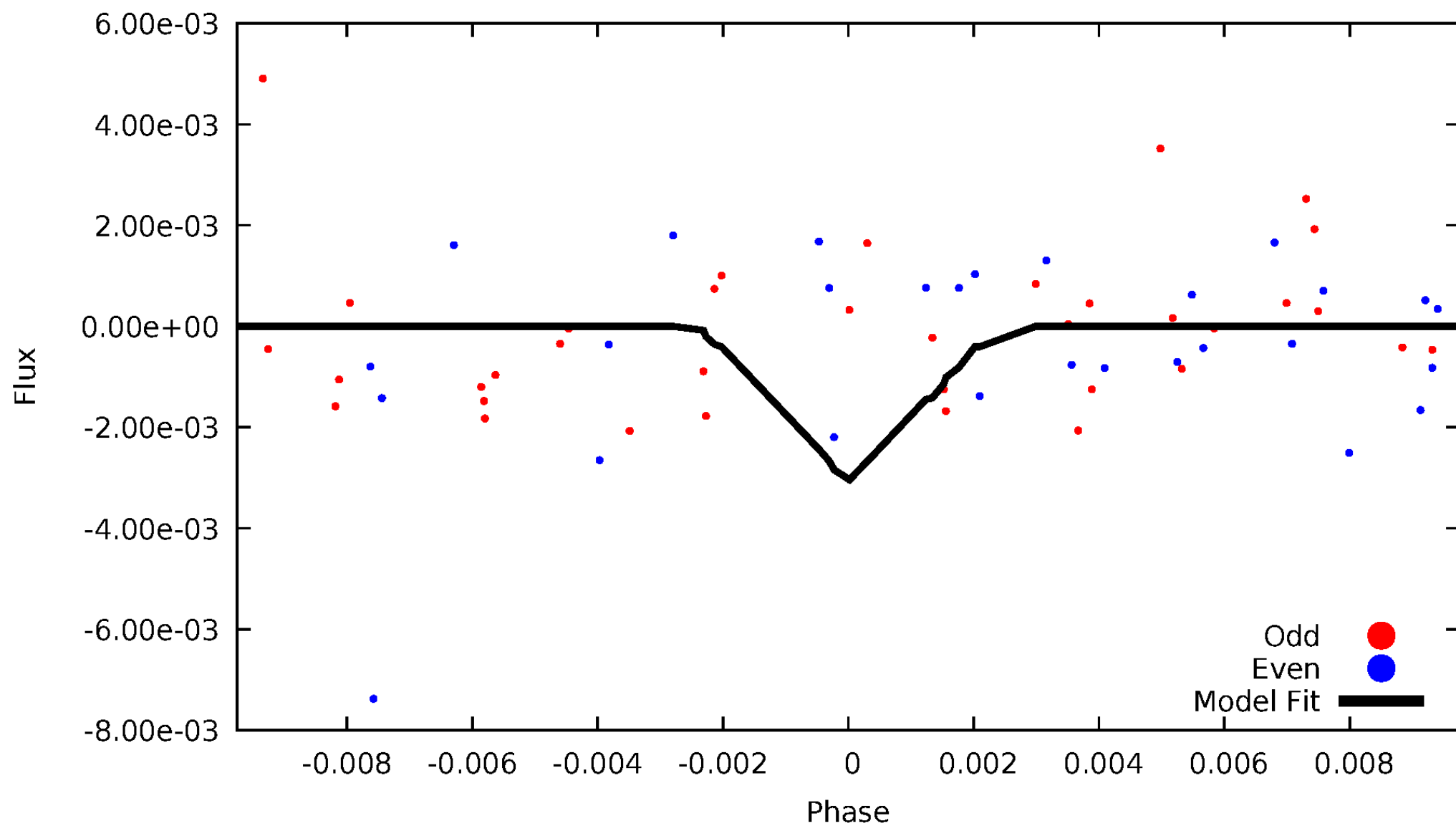
DV Odd/Even

TCE 007915824-02



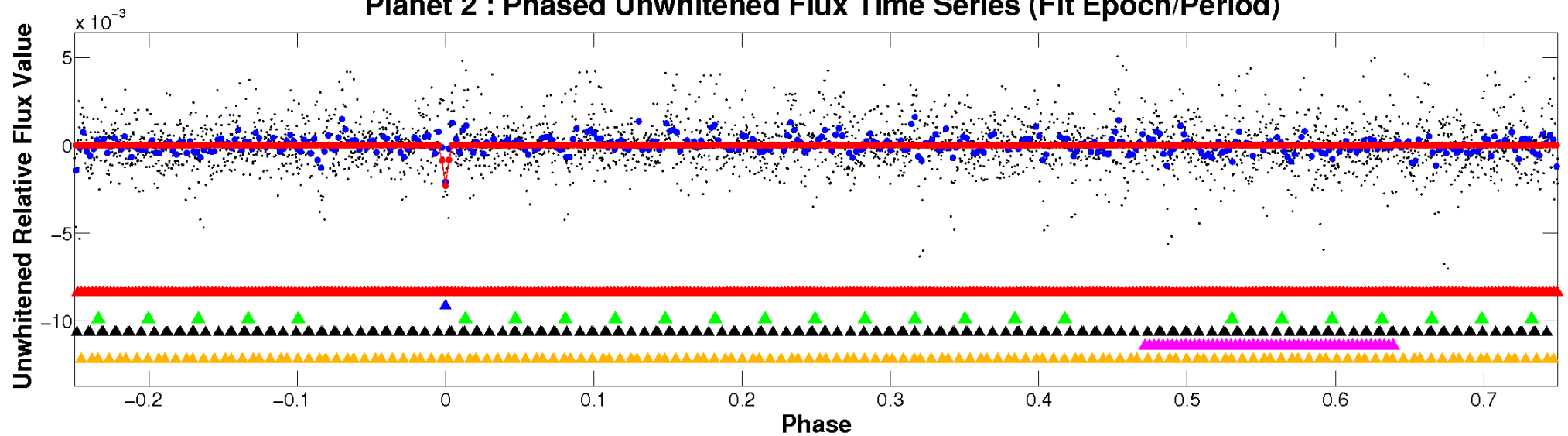
ALT Odd/Even

TCE 007915824-02

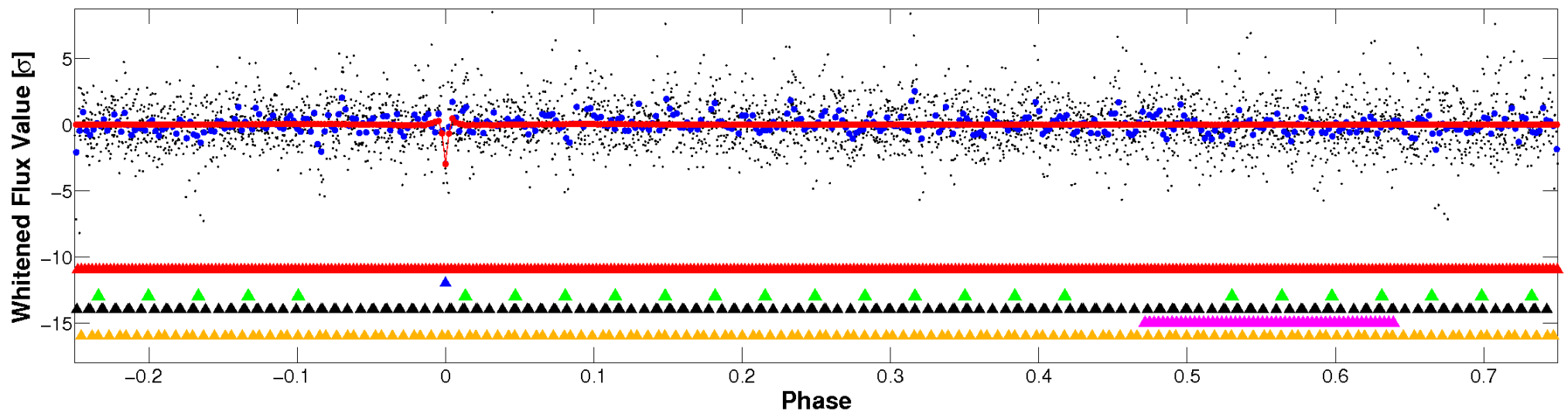


Non-Whitened Vs. Whitened Light Curve

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

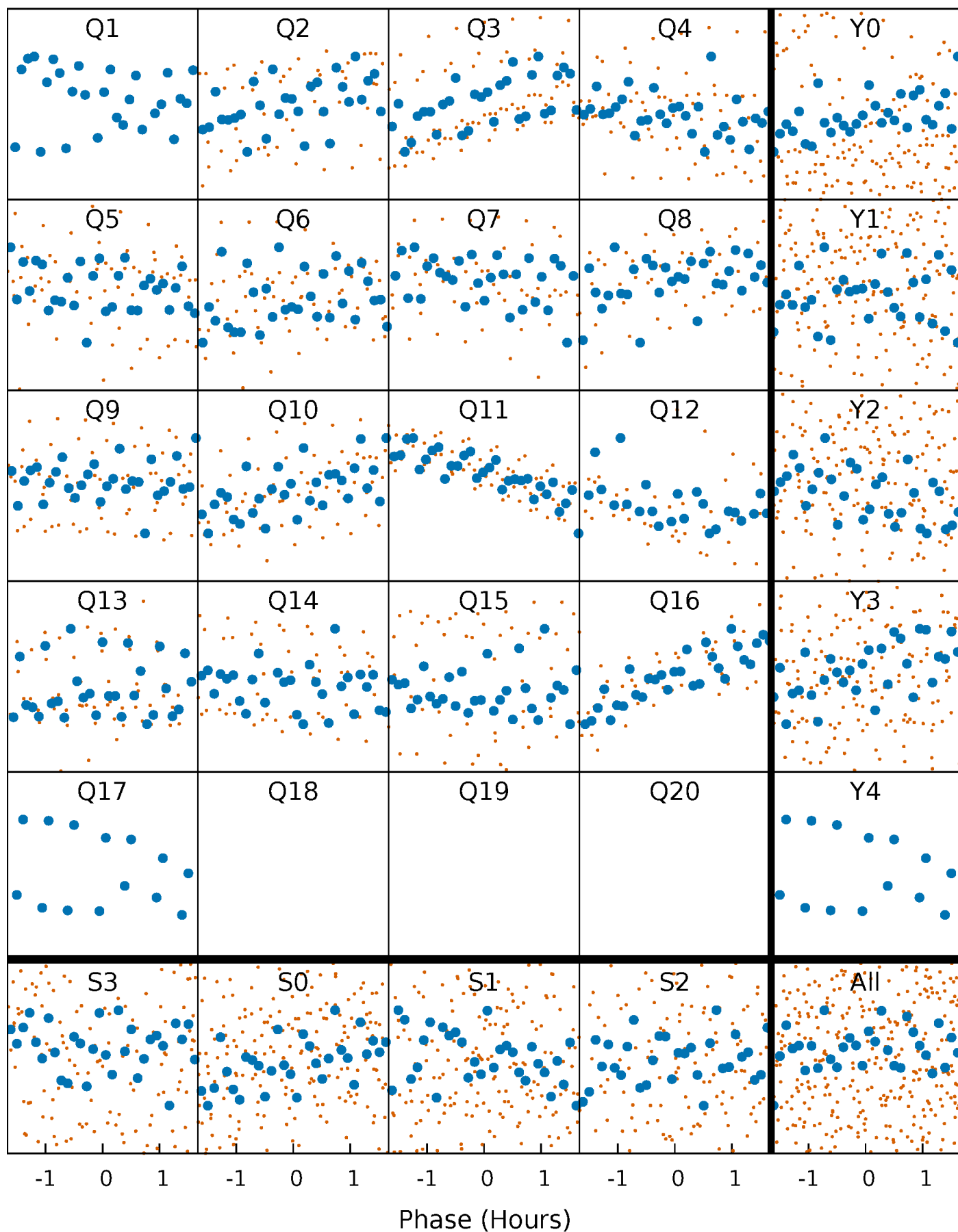


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



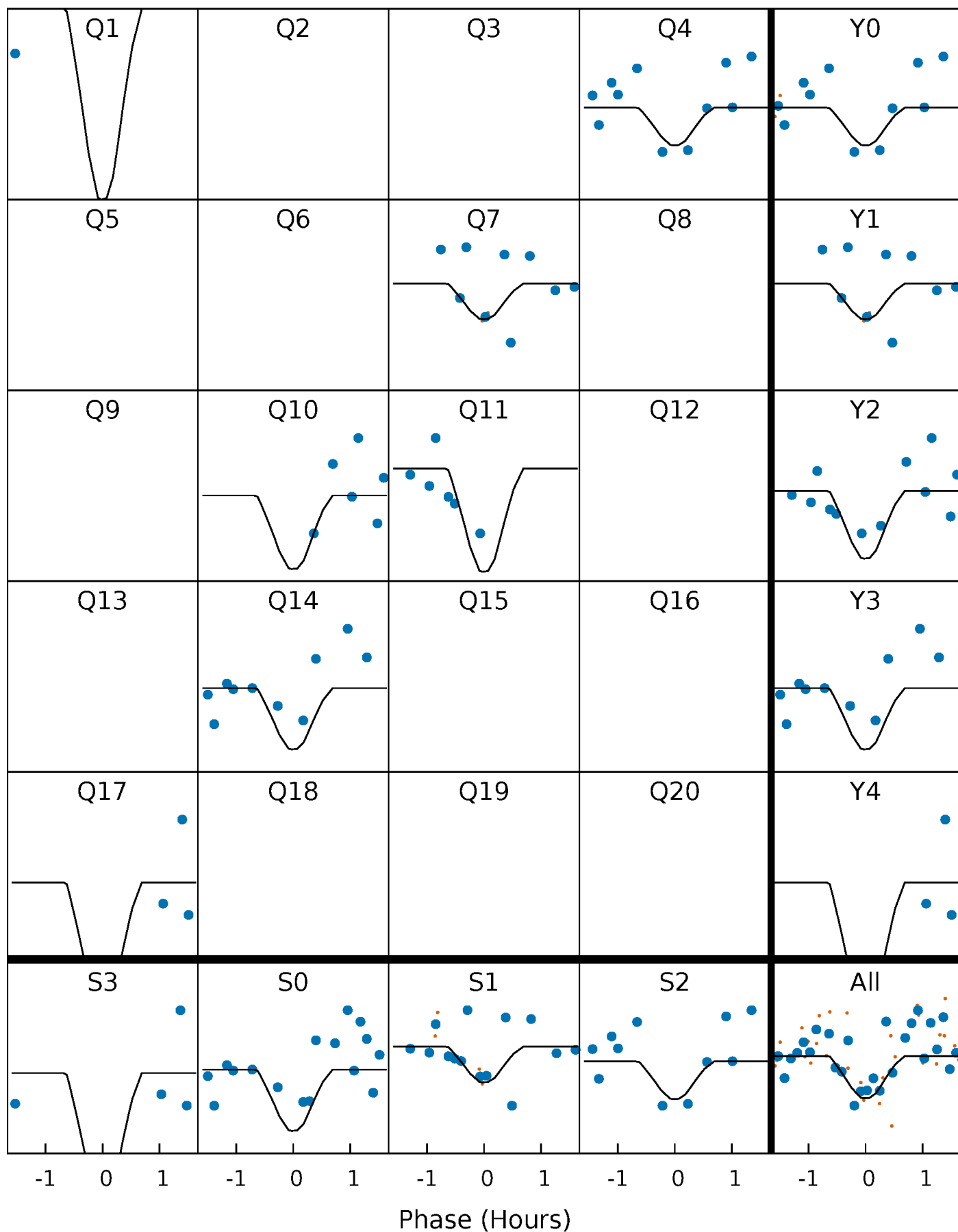
PDC Quarter-Phased Transit Curves

TCE 007915824-02 P= 8.781913 Days $T_0=133.846237$ (BKJD)



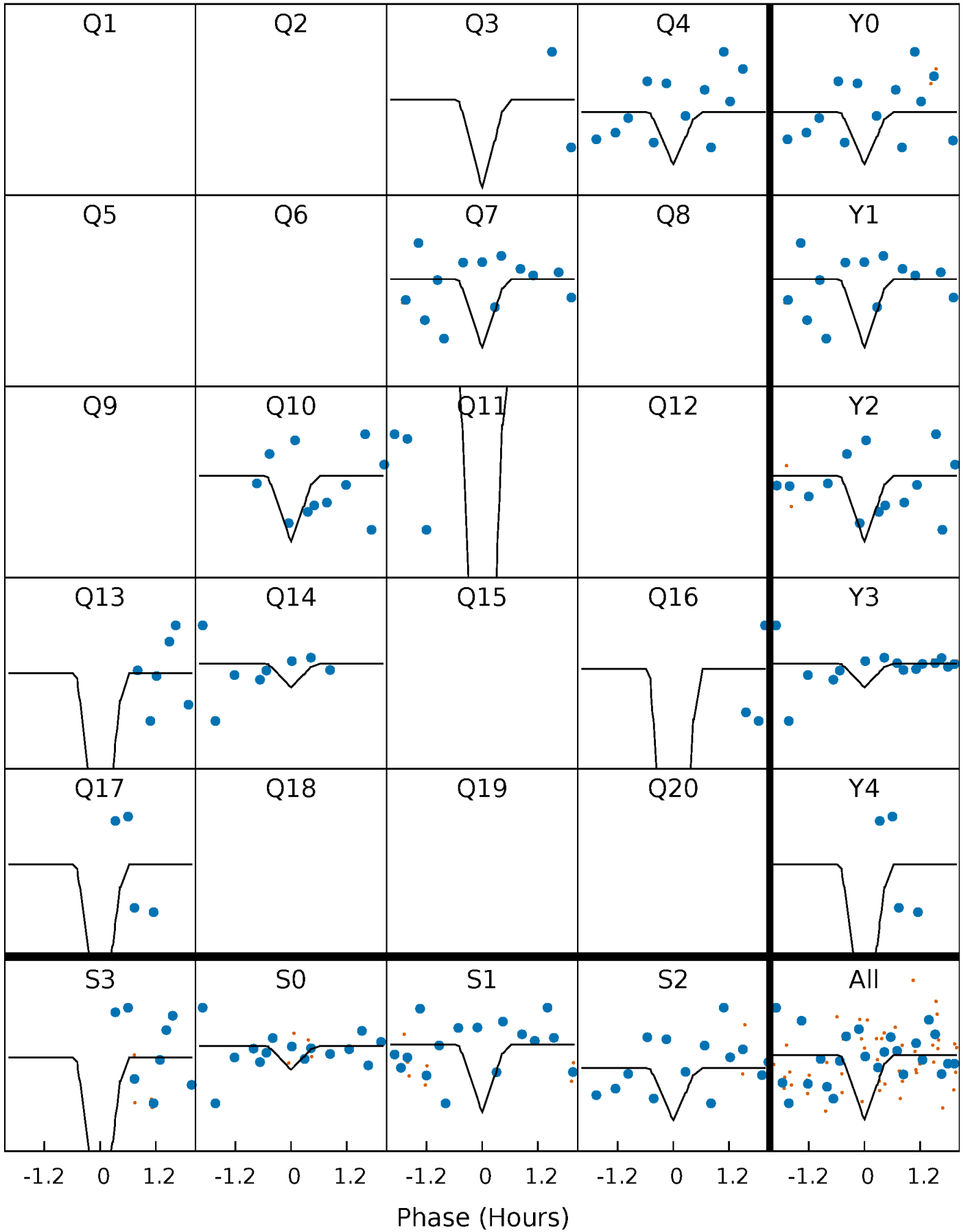
DV Quarter-Phased Transit Curves

TCE 007915824-02 P= 8.781913 Days $T_0=133.846237$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

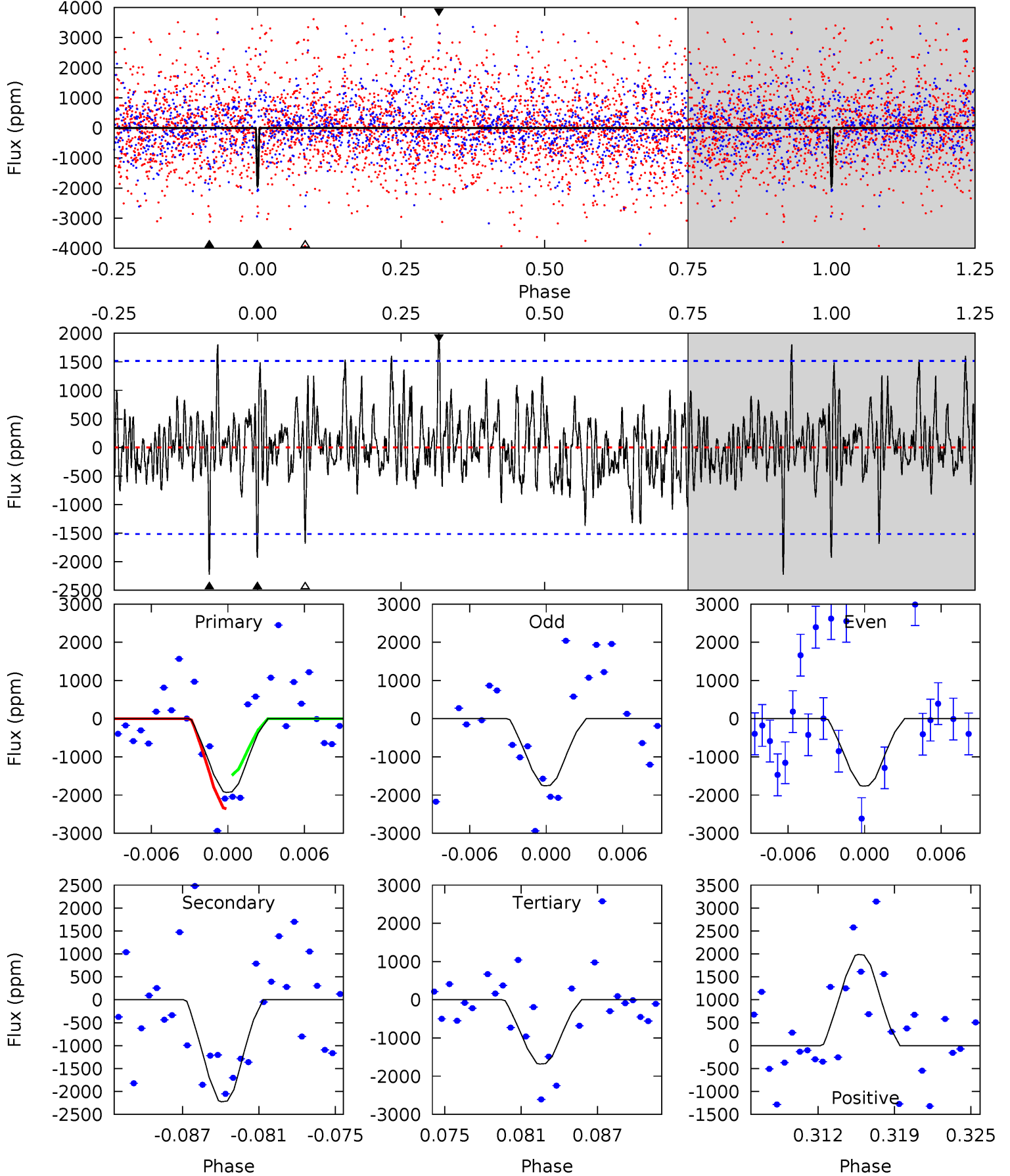
TCE 007915824-02 P= 8.781684 Days $T_0=133.914993$ (BKJD)



DV Model-Shift Uniqueness Test

007915824-02, P = 8.781913 Days, E = 125.064324 Days

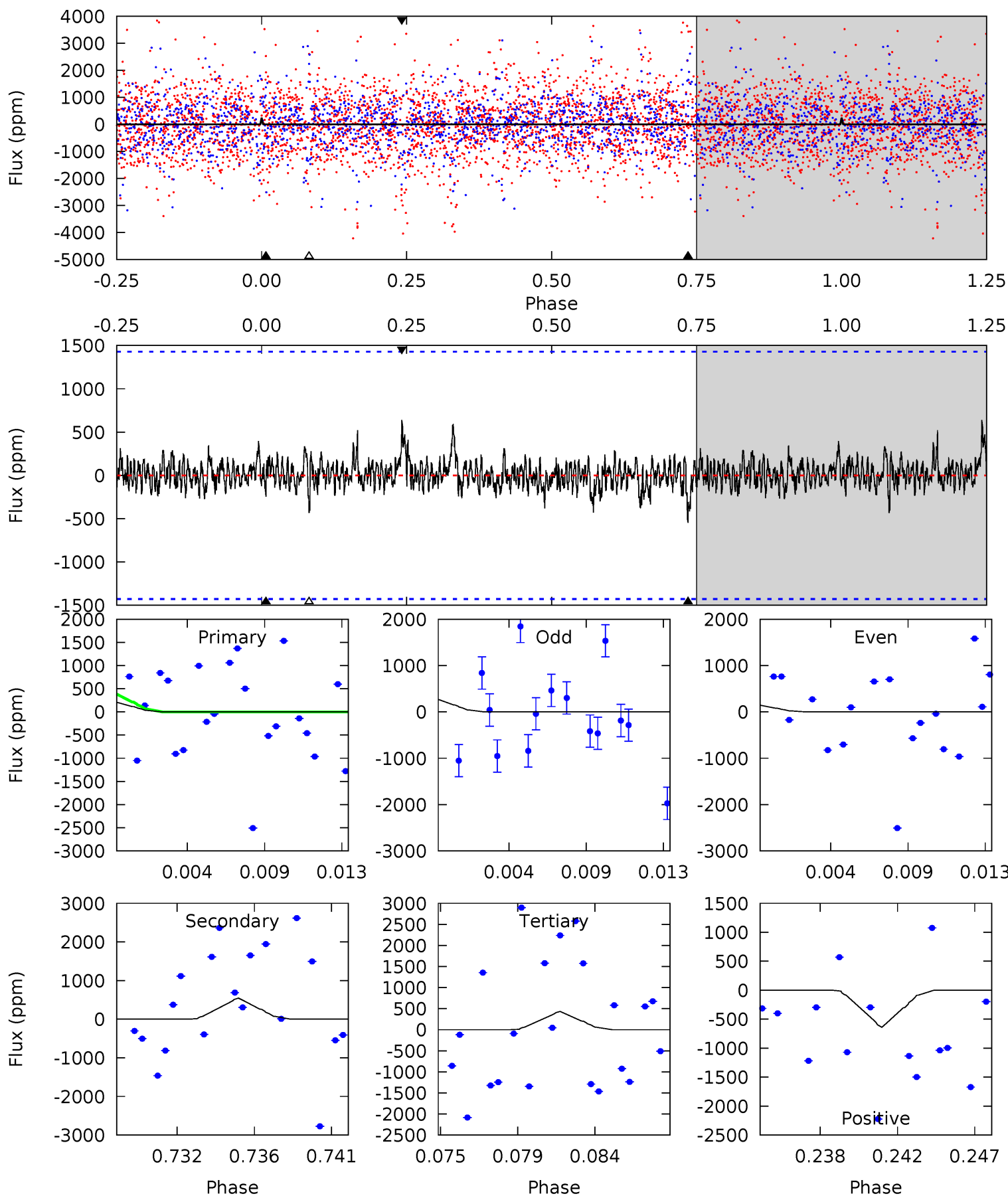
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.52	7.51	5.68	6.71	5.12	2.73	1.64	0.83	-0.20	1.83	0.80	0.02	1.17	0.47	1.51



Alt Model-Shift Uniqueness Test

007915824-02, P = 8.781684 Days, E = 125.133309 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.89	1.98	1.57	2.32	5.18	2.85	0.48	-0.68	-1.43	0.41	-0.34	0.26	0.30	0.54	0.80



Stellar Parameters For KIC 007915824

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6230^{+169}_{-206}	$4.504^{+0.065}_{-0.195}$	$-0.600^{+0.300}_{-0.300}$	$0.892^{+0.252}_{-0.084}$	$0.926^{+0.104}_{-0.104}$	$1.838^{+0.478}_{-0.921}$
	+3%/-3%	+1%/-4%	+50%/-50%	+28%/-9%	+11%/-11%	+26%/-50%
Source	PHO1	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 007915824-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-2225 ± 296	$6.25^{+5.43}_{-4.08}$	1290^{+89}_{-62}	5480^{+4529}_{-1224}	205^{+1516}_{-147}
Alt.	-547 ± 276	$6.72^{+5.52}_{-4.18}$	1291^{+84}_{-62}	3931^{+1805}_{-782}	39^{+217}_{-29}

T_{max} = Theoretical Maximum Planetary Temperature

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

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

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

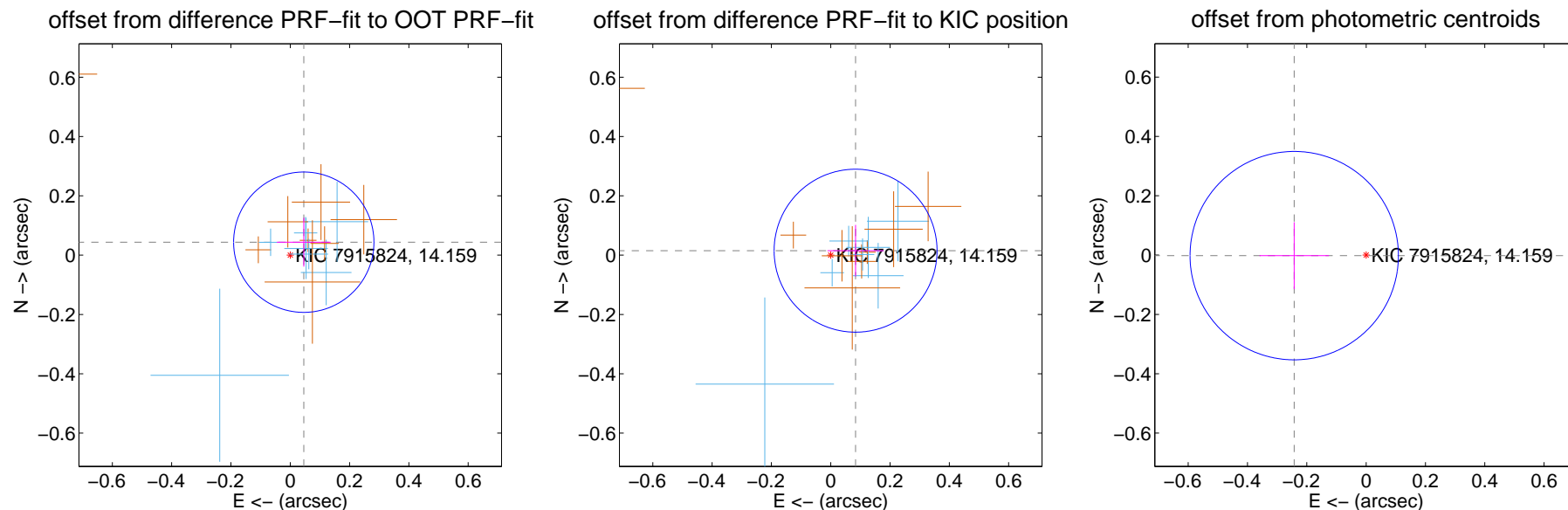
DV Centroid Data

Supplemental centroid analysis for 007915824-02. Kepler magnitude: 14.16. Transit SNR 7.84

There are 7 quarters with good PRF difference image offsets

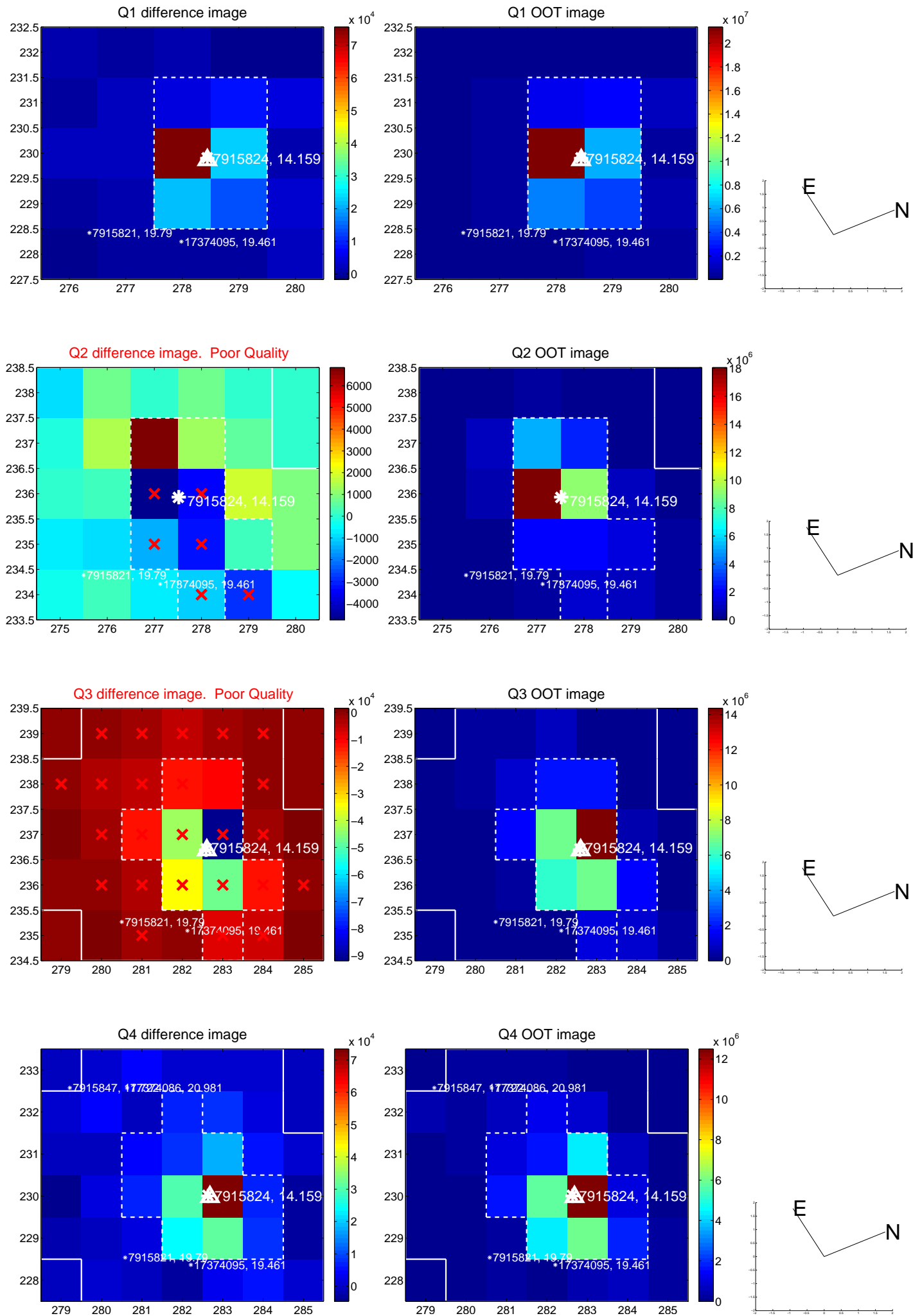
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.063 ± 0.079	0.80	-0.046 ± 0.091	0.044 ± 0.082
PRF-fit source offset from KIC position	0.085 ± 0.092	0.93	-0.084 ± 0.095	0.015 ± 0.087
photometric centroid source offset	0.24 ± 0.12	2.07	0.24 ± 0.12	-0.00 ± 0.11

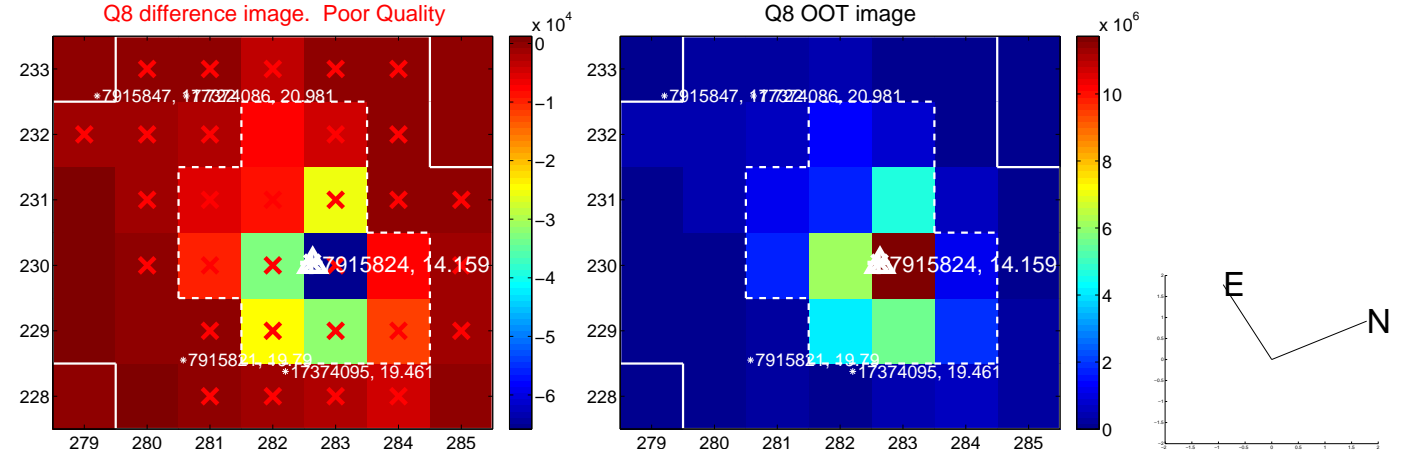
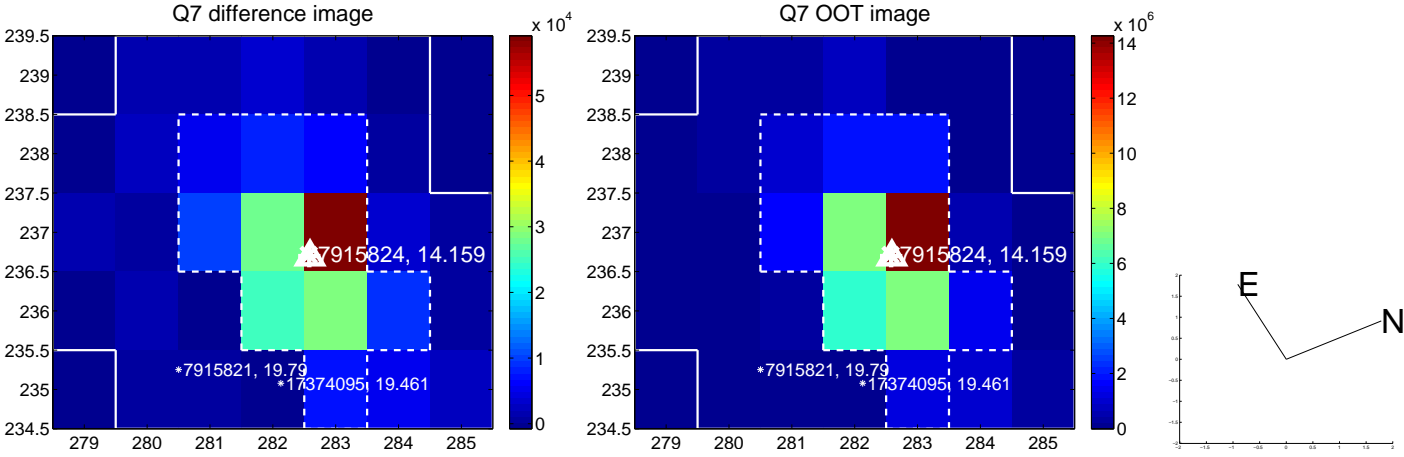
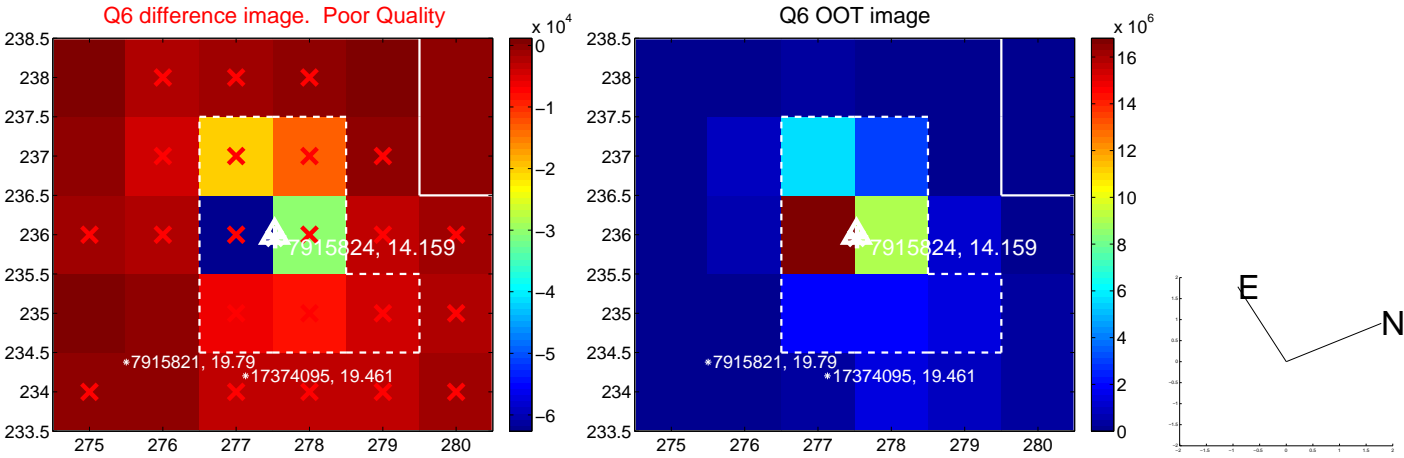
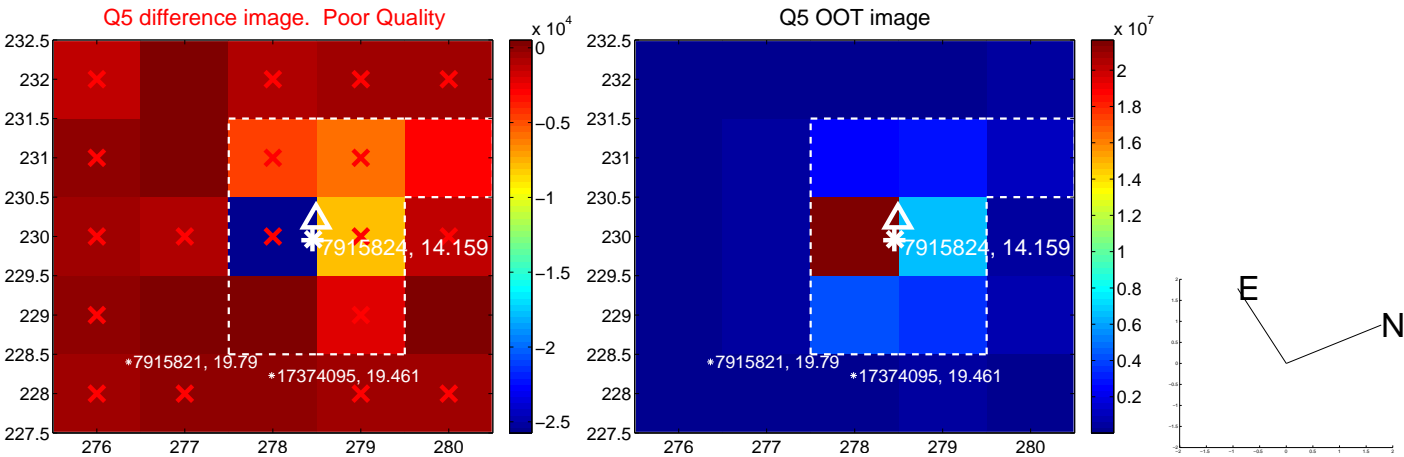


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

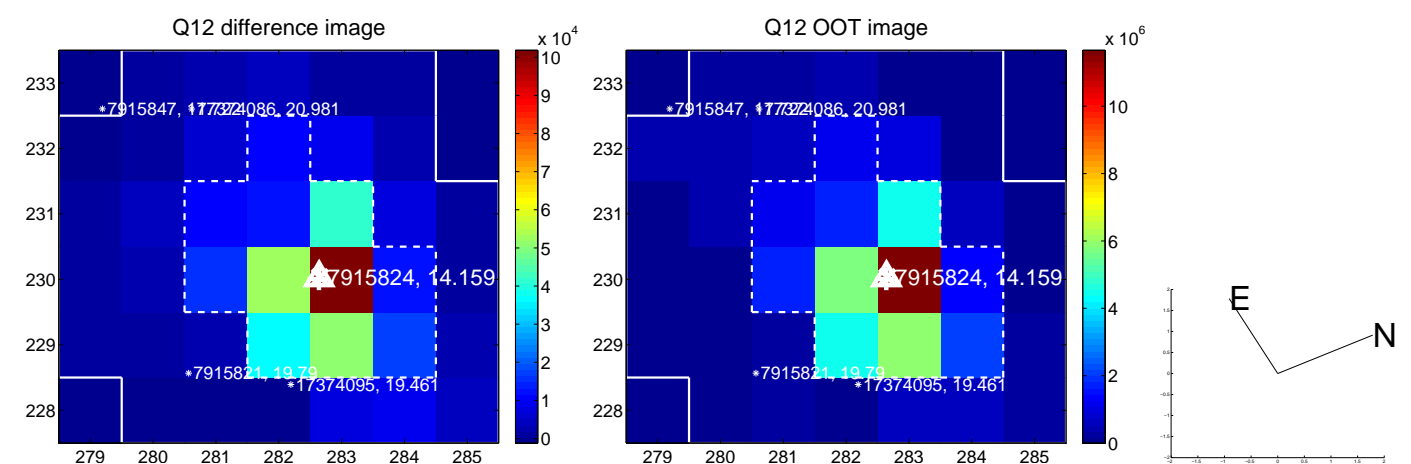
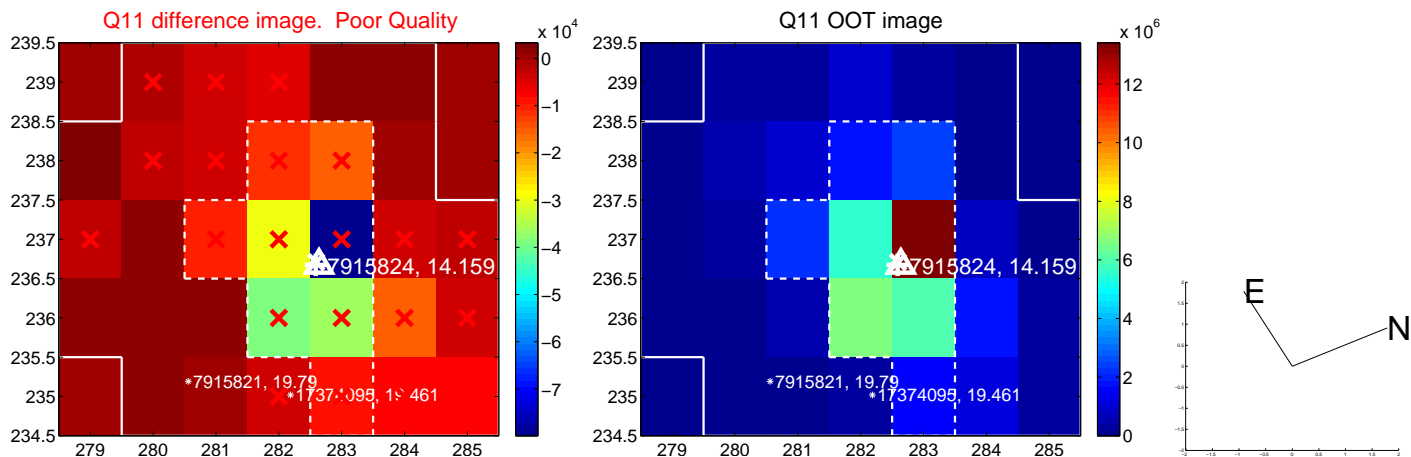
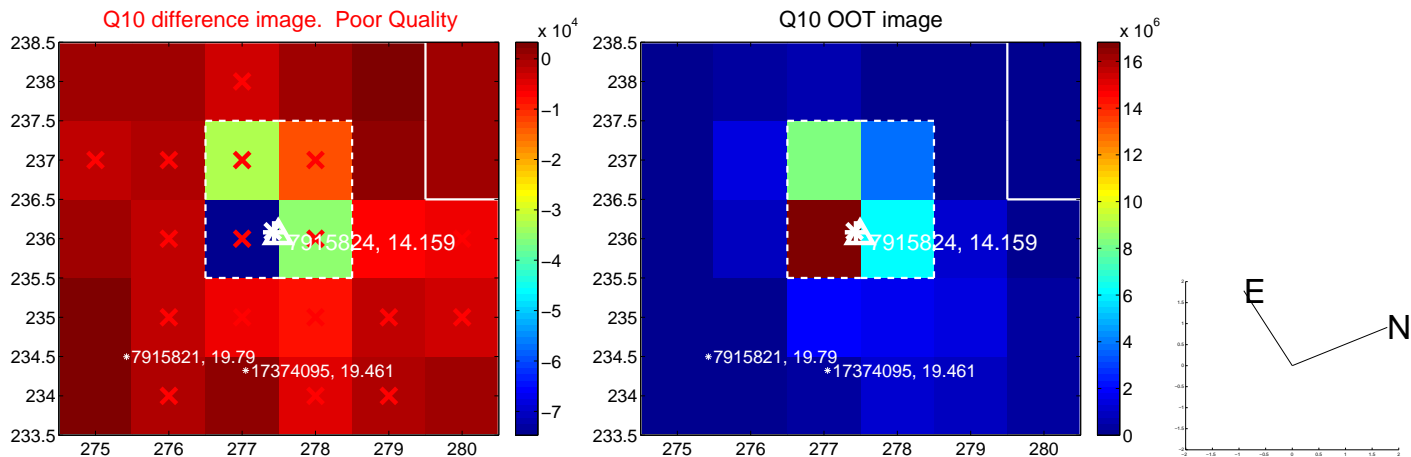
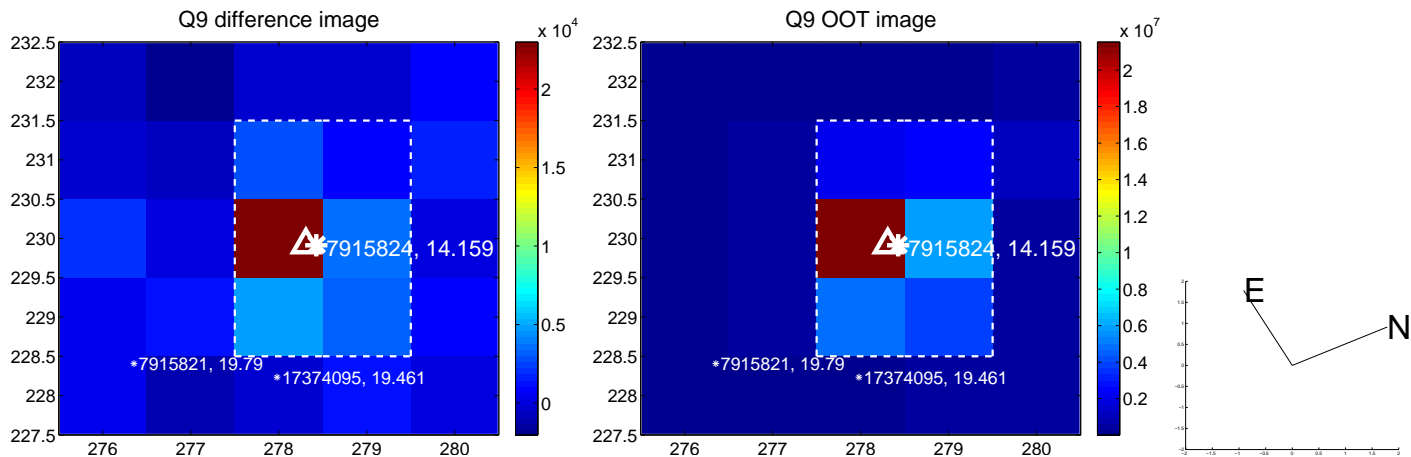
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



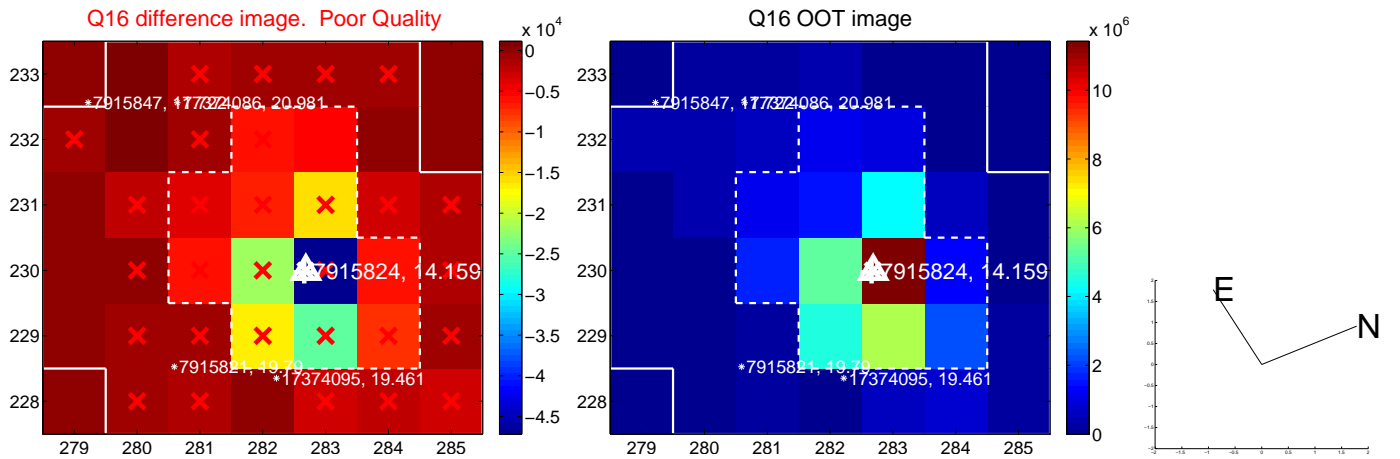
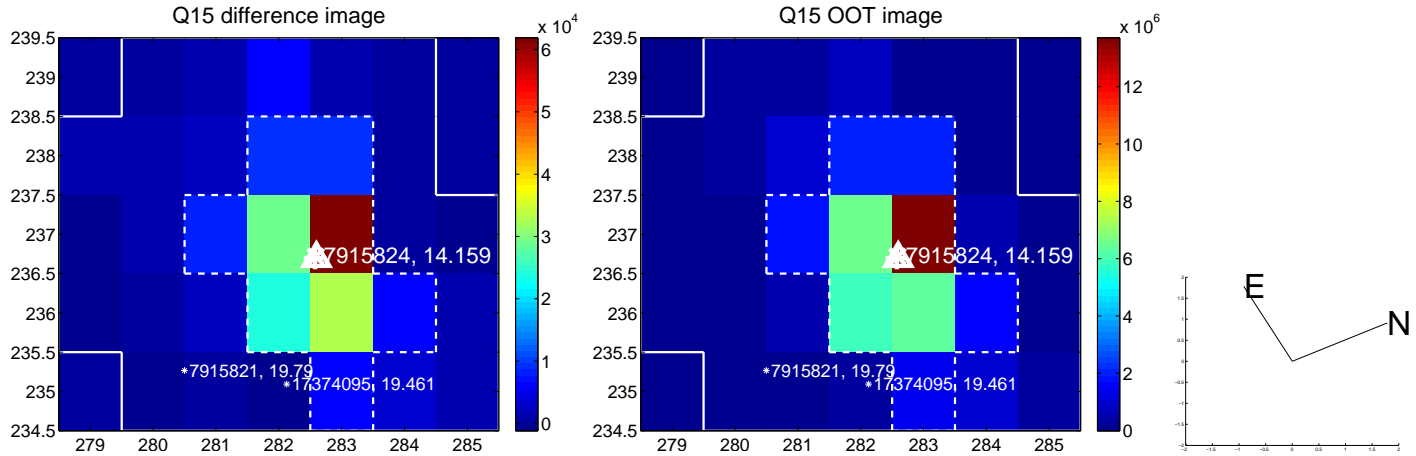
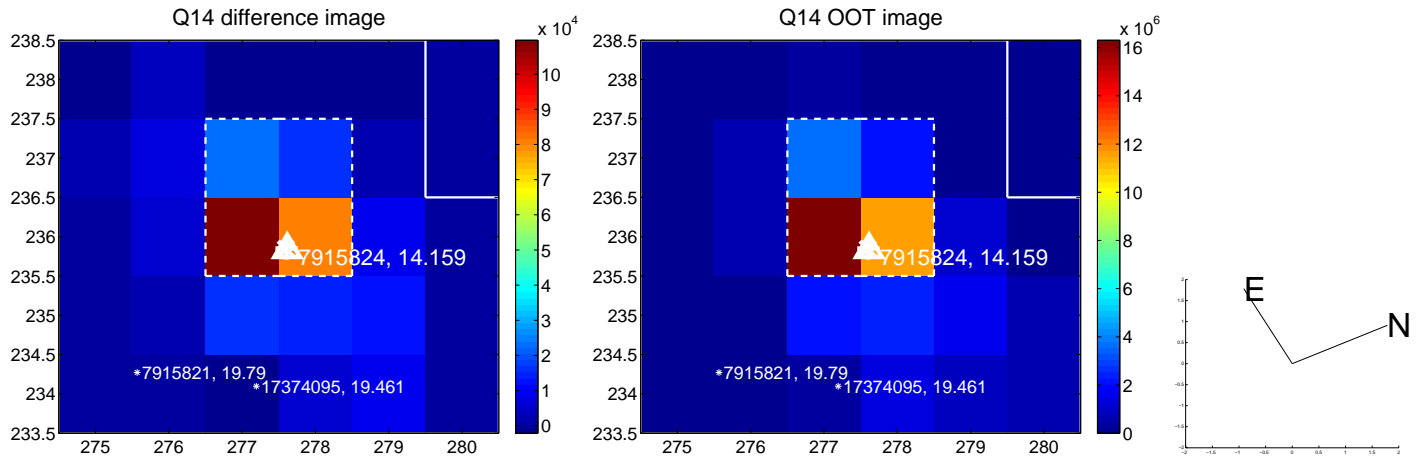
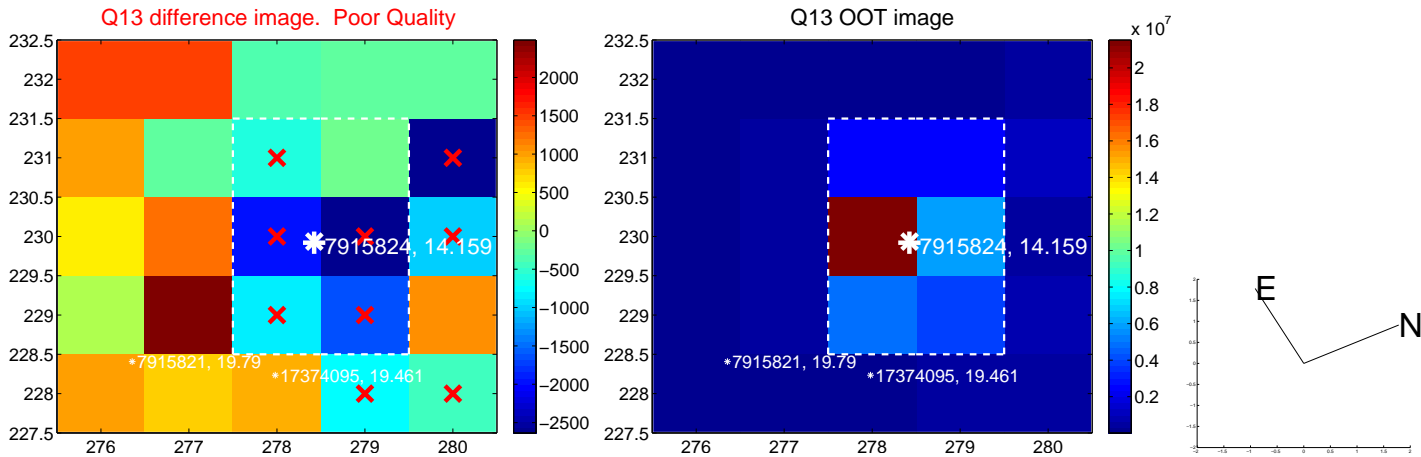
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



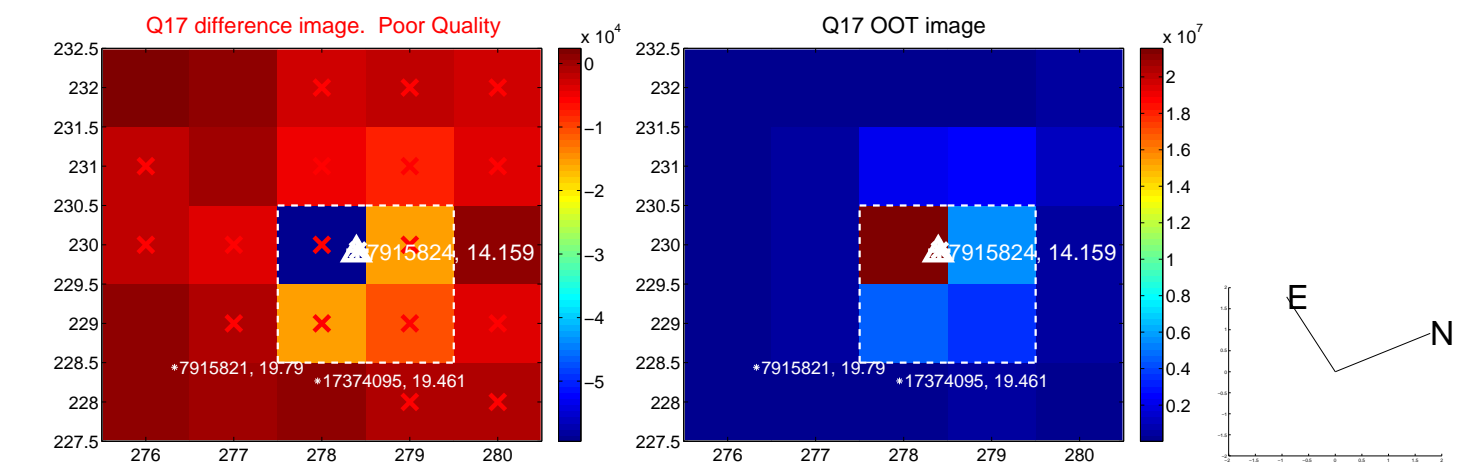
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



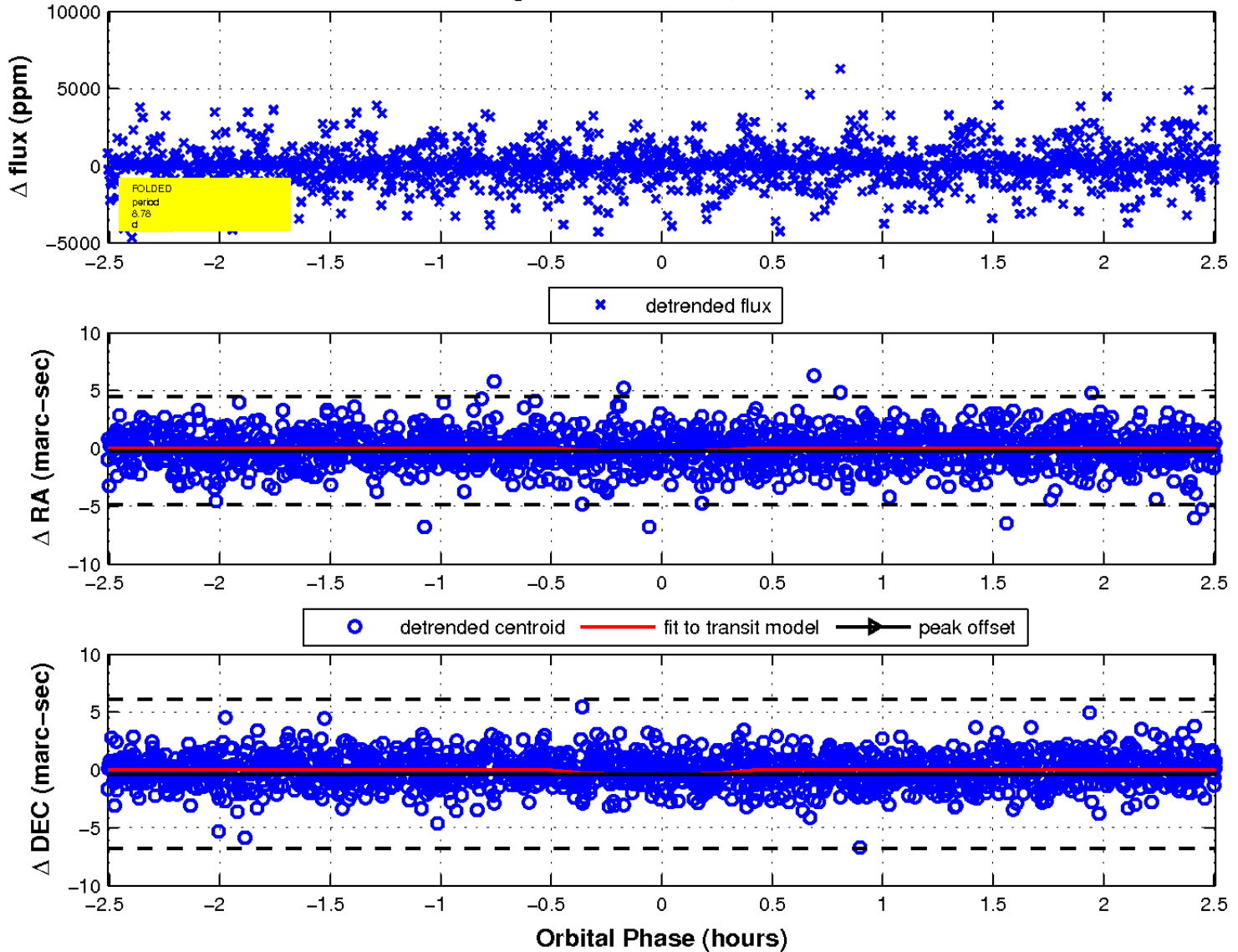
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

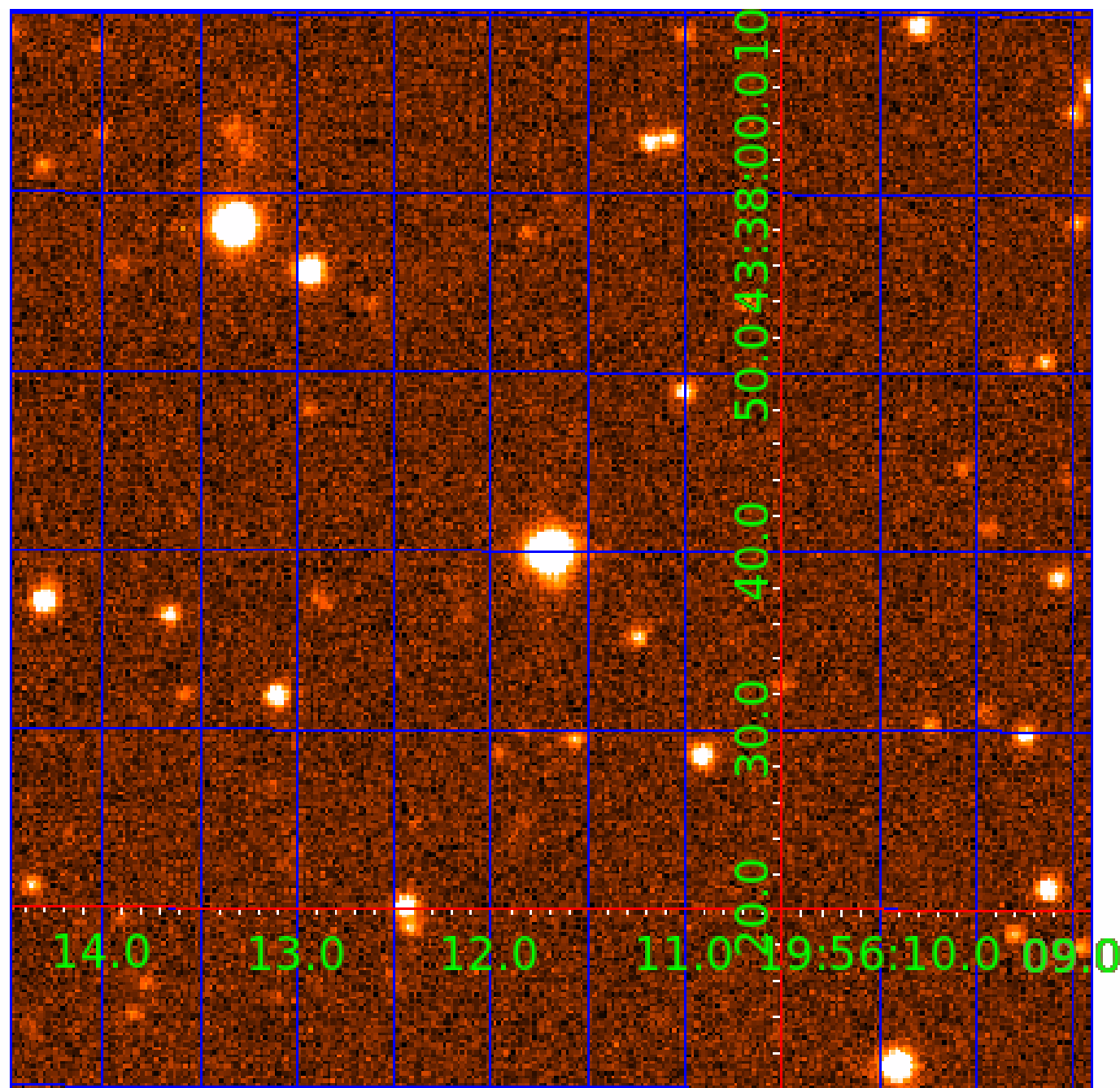


fluxWeightedCentroids, Planet 2 of 6



UKIRT Image

Declination



KIC 007915824

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})
007915824-01	OBS	No	0.730035	131.949210	76.1	5.355	8.1	5.7	0.89	6230	0.91	4487.09
007915824-02	OBS	No	8.781913	133.846237	2504.7	0.836	10.5	7.8	0.89	6230	4.58	162.79
007915824-03	OBS	No	57.230318	177.873764	4620.7	5.298	11.6	10.8	0.89	6230	10.70	13.37
007915824-04	OBS	No	7.941824	135.335995	1018.3	1.500	11.2	-1.0	0.89	6230	2.87	186.15
007915824-06	OBS	No	9.341086	132.542699	675.5	0.571	8.0	1.6	0.89	6230	2.44	149.93

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007915824-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV
007915824-02	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
007915824-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES
007915824-04	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_NOFITS
007915824-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST

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

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

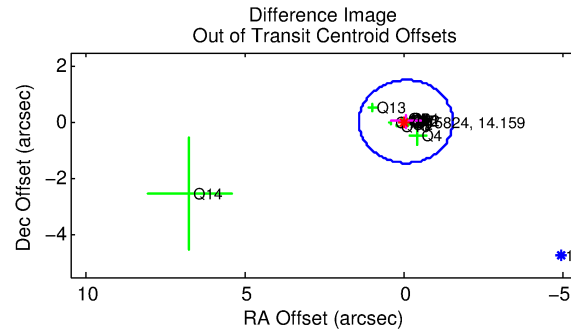
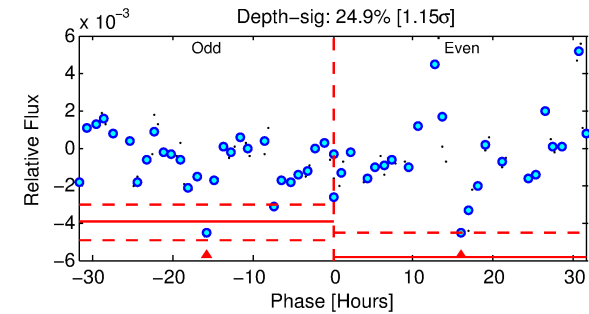
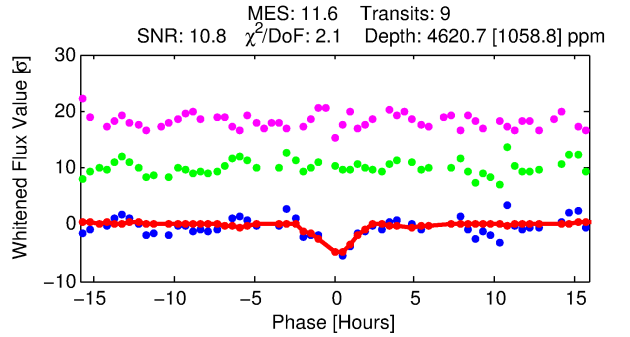
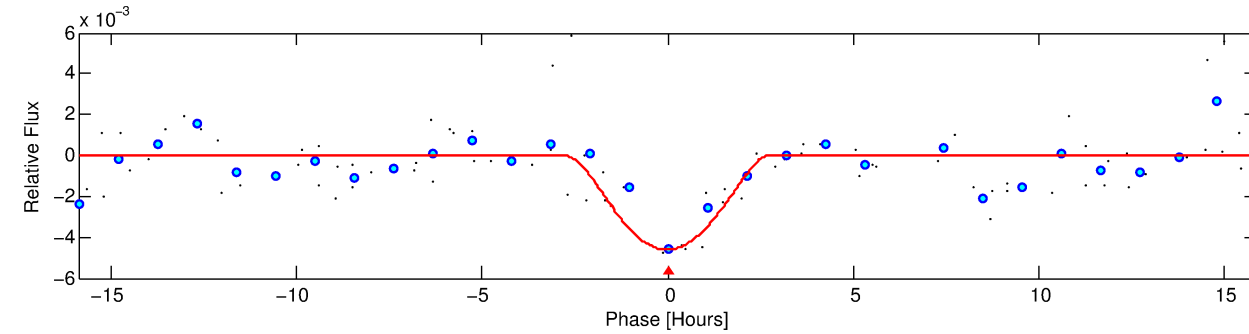
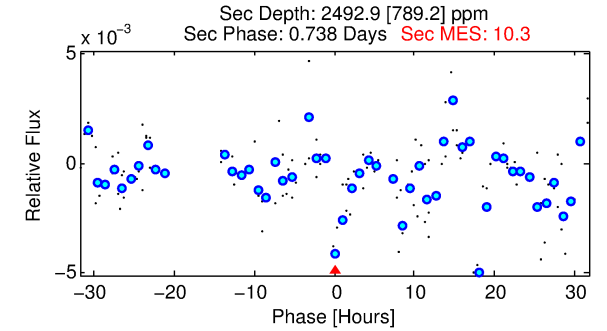
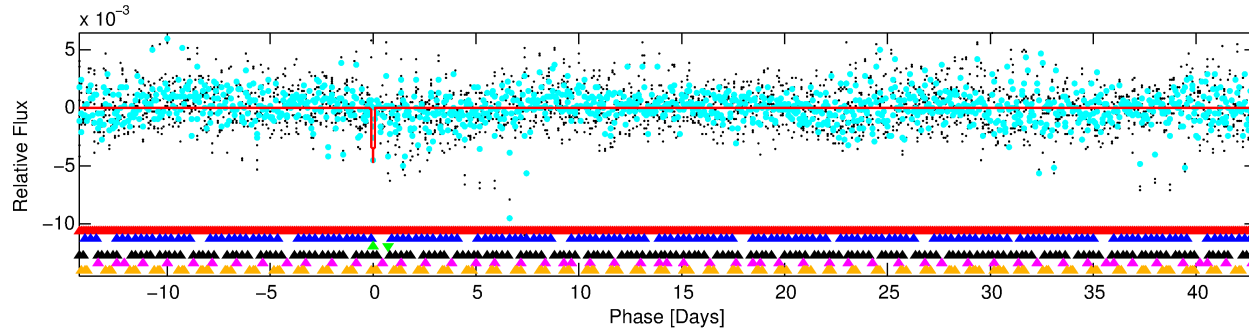
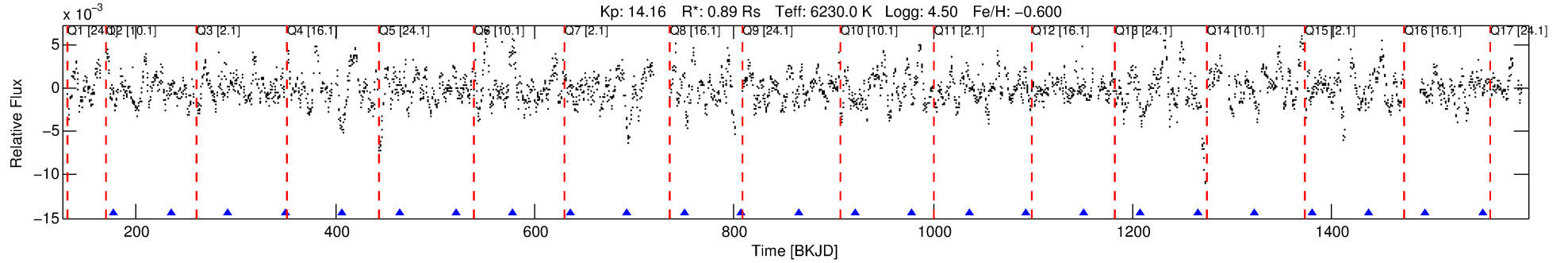
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007915824-03

No Significant Match Found

DV One-Page Summary

KIC: 7915824 Candidate: 3 of 6 Period: 57.230 d



DV Fit Results:

Period = 57.23032 [0.00230] d
Epoch = 177.8738 [0.0403] BKJD
Rp/R* = 0.1099 [0.4537]
a/R* = 40.45 [33.17]
b = 1.00 [0.67]
Seff = 13.37 [5.05]
Teq = 488 [46] K
Rp = 10.70 [44.26] Re
1a = 0.2834 [0.0682] AU
Ag = 962.01 [7953.86] [0.12 σ]
Teffp = 4199 [8672] K [0.43 σ]

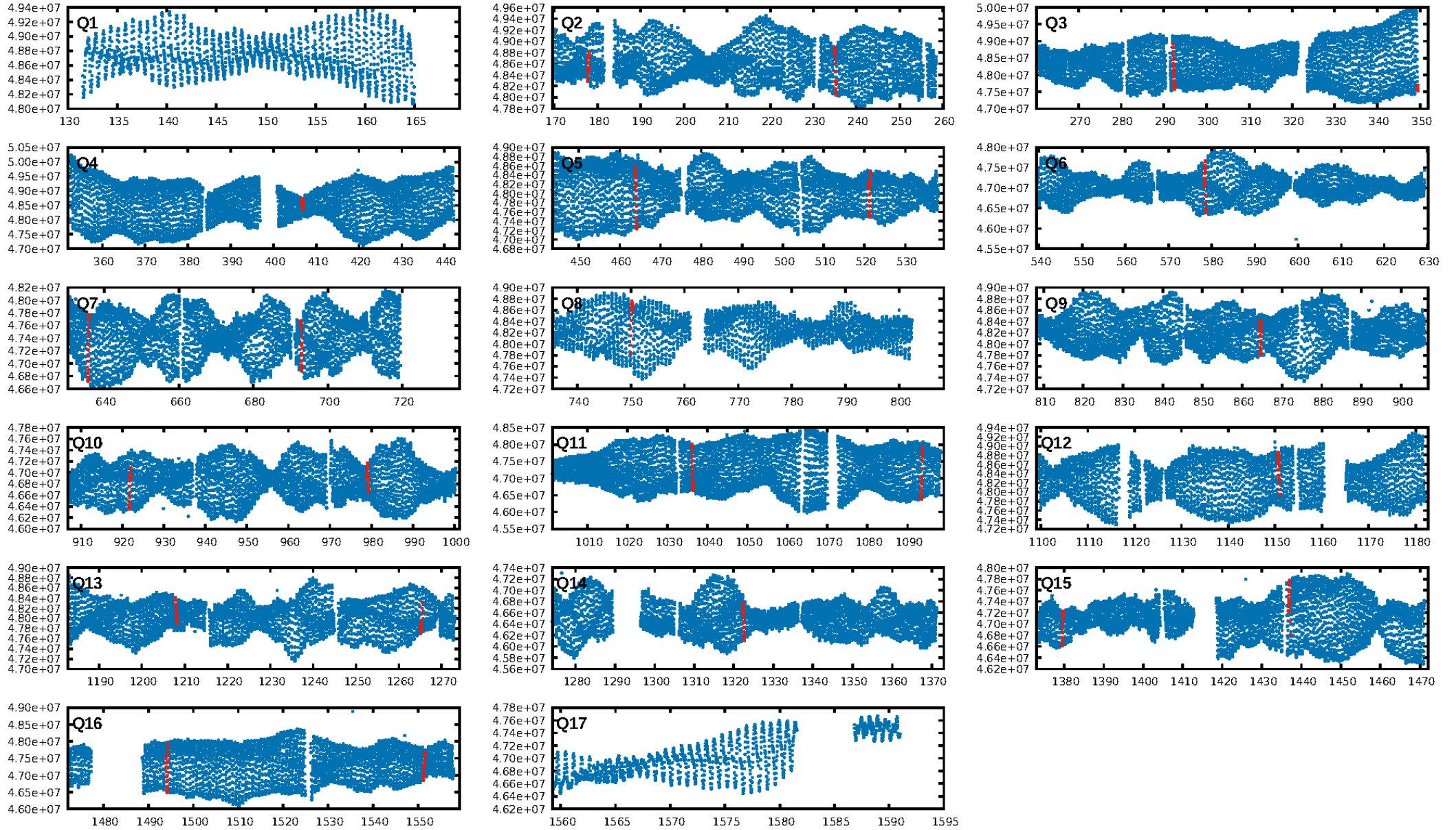
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [131.42 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 7.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 5.78e-15
RollingBand-fgt: 1.00 [9/9]
GhostDiagnostic-chr: 0.3602
Centroid-sig: 2.4%
Centroid-so: 0.241 arcsec [2.75 σ]
OotOffset-rm: 0.061 arcsec [0.12 σ]
KicOffset-rm: 0.086 arcsec [0.18 σ]
OotOffset-st: 4/3/4/3 [14]
KicOffset-st: 4/3/4/3 [14]
DiffImageQuality-fgm: 0.50 [7/14]
DiffImageOverlap-fno: 0.00 [0/14]

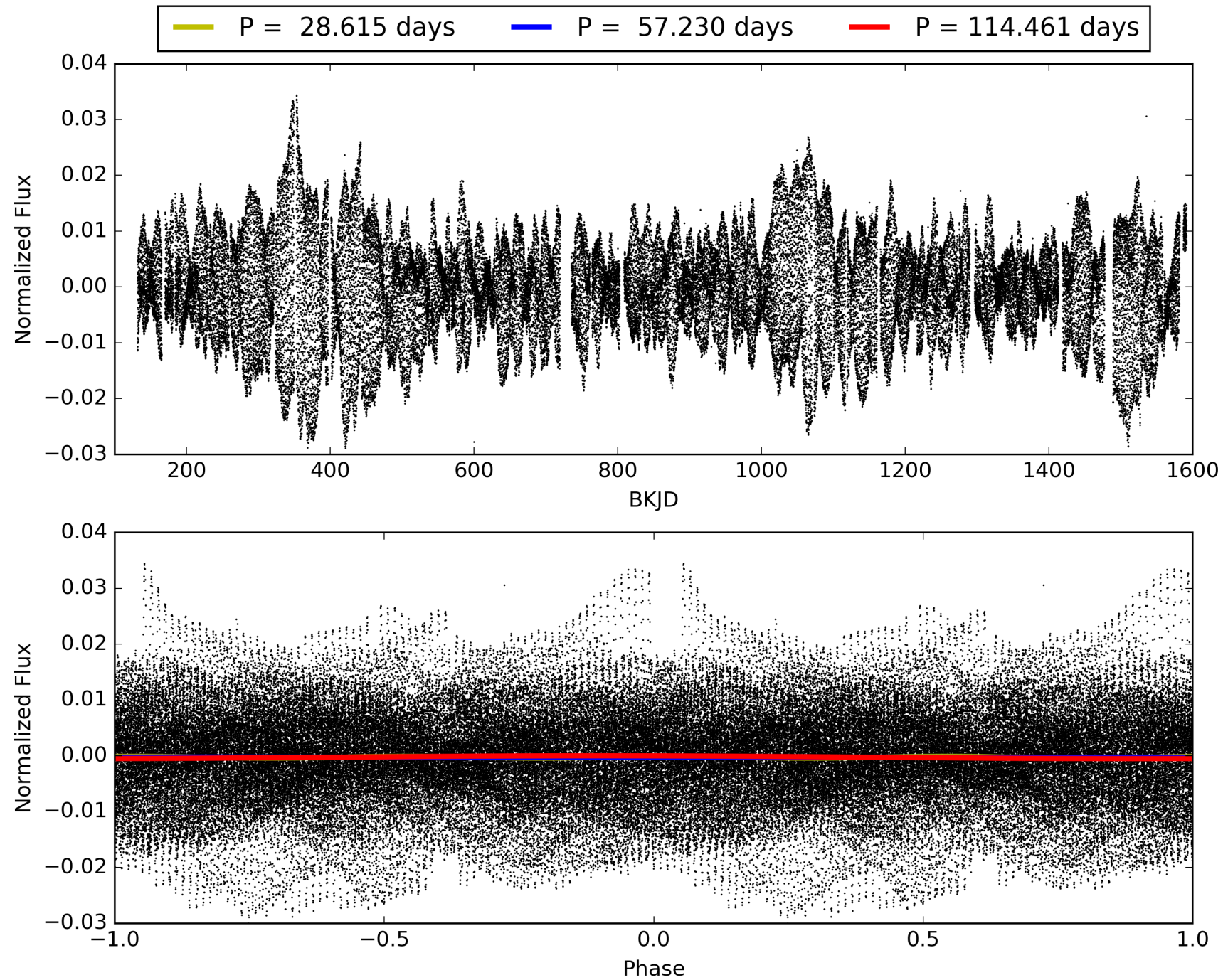
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:54:44 Z

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

TCE 007915824-03, PDC Light Curves

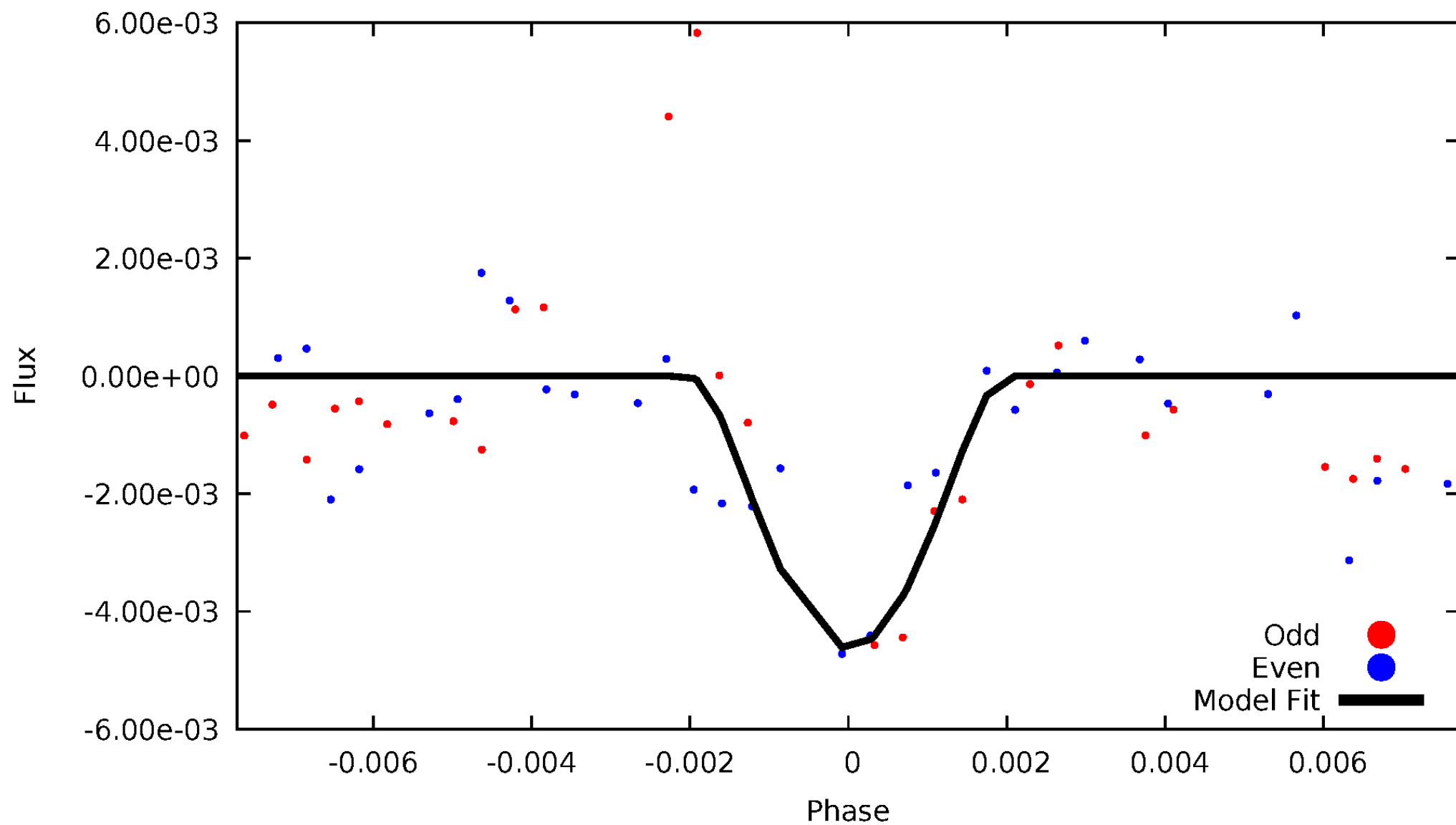


TCE 007915824-03



DV Odd/Even

TCE 007915824-03

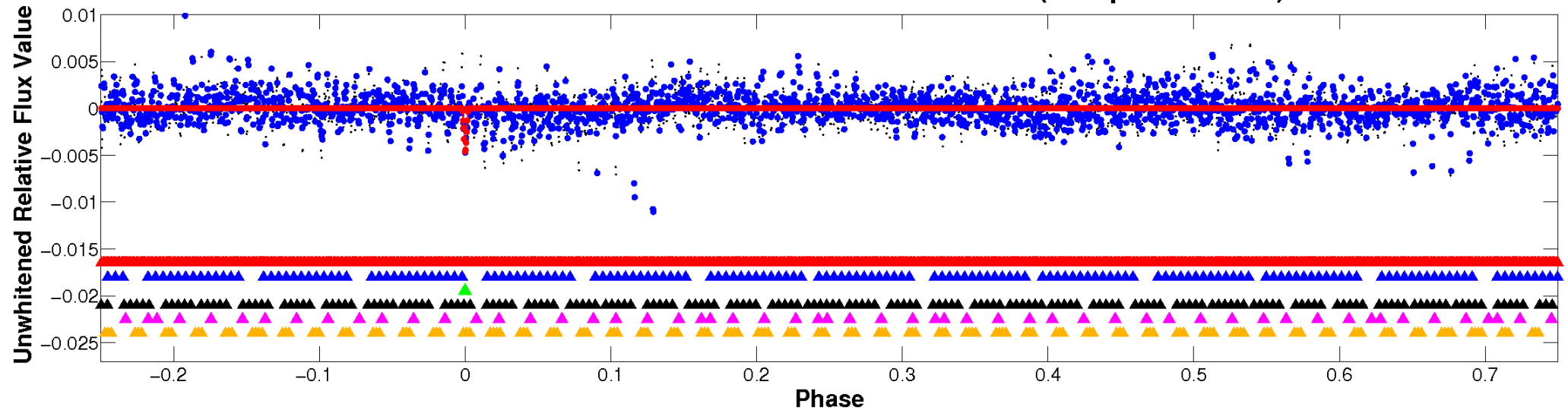


ALT Odd/Even

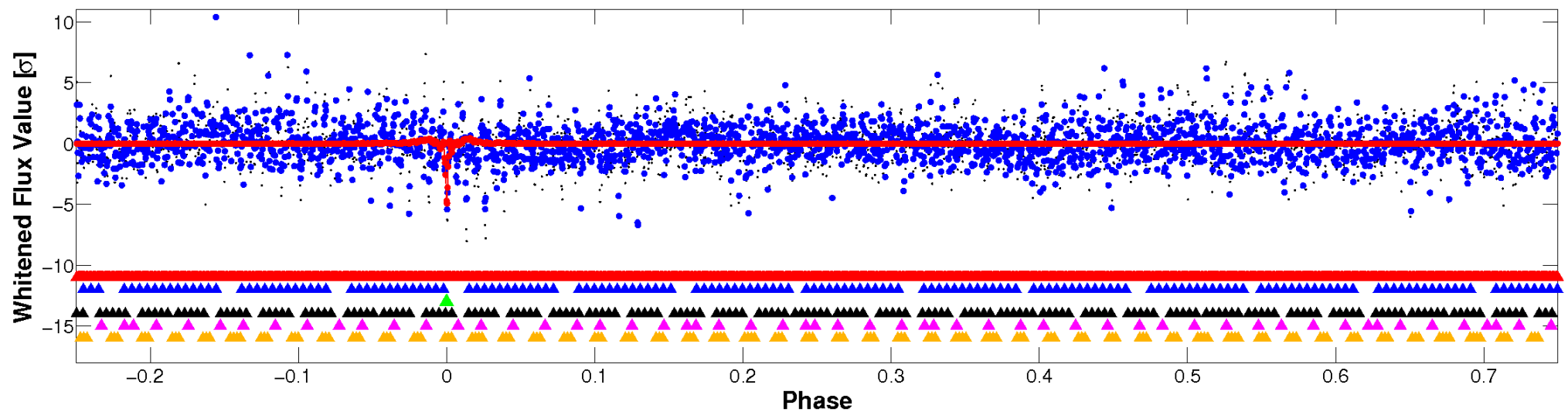
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

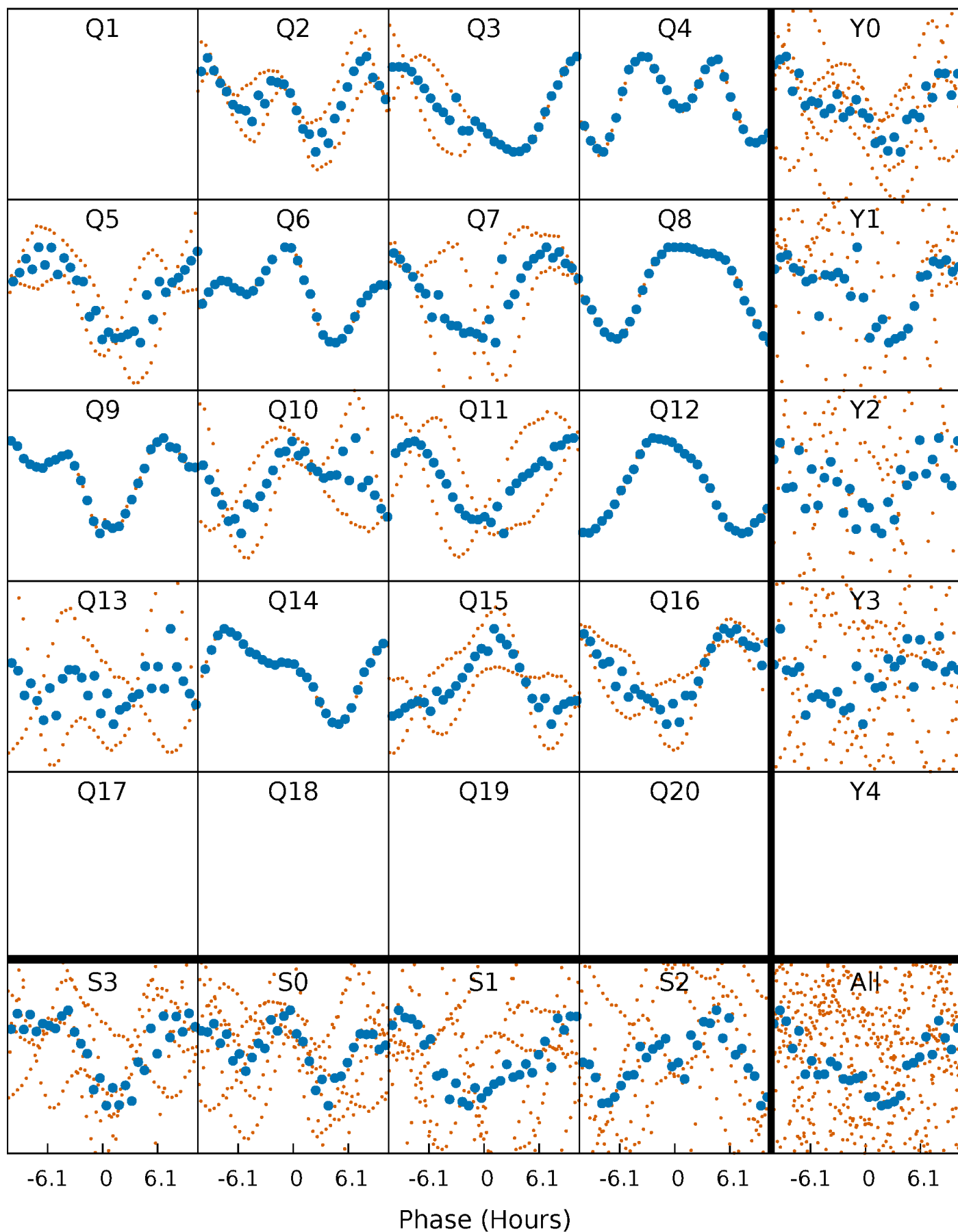


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



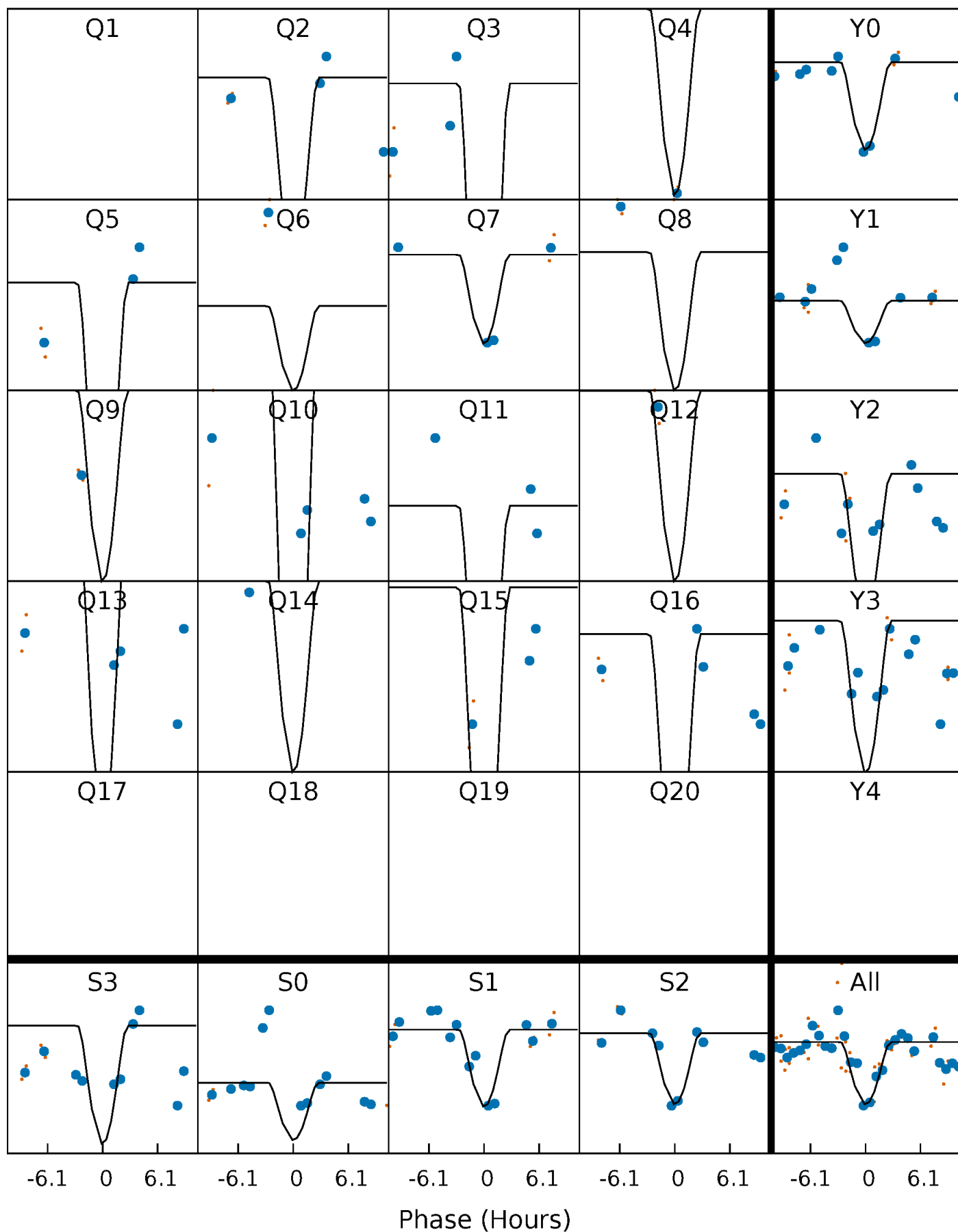
PDC Quarter-Phased Transit Curves

TCE 007915824-03 P= 57.230318 Days $T_0=177.873764$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007915824-03 P= 57.230318 Days $T_0=177.873764$ (BKJD)

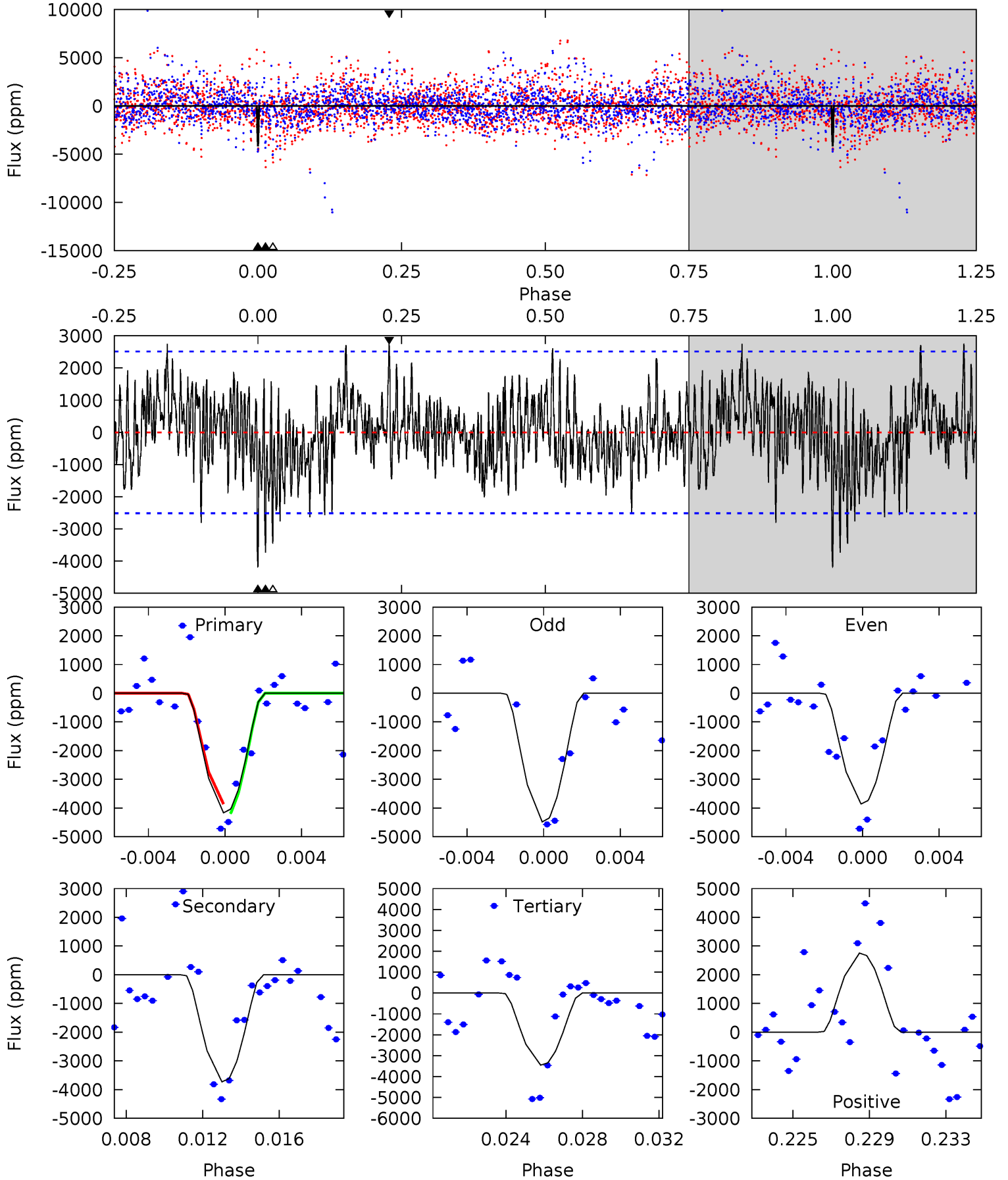


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007915824-03, P = 57.230318 Days, E = 120.643446 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.62	7.71	7.14	5.69	5.20	2.88	1.89	1.48	2.92	0.58	2.02	0.64	1.10	0.40	0.34



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007915824

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6230^{+169}_{-206}	$4.504^{+0.065}_{-0.195}$	$-0.600^{+0.300}_{-0.300}$	$0.892^{+0.252}_{-0.084}$	$0.926^{+0.104}_{-0.104}$	$1.838^{+0.478}_{-0.921}$
	+3%/-3%	+1%/-4%	+50%/-50%	+28%/-9%	+11%/-11%	+26%/-50%
Source	PHO1	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 007915824-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-3731 ± 484	$34.30^{+39.23}_{-24.23}$	688^{+47}_{-32}	3194^{+1775}_{-587}	134^{+1490}_{-105}
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 $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

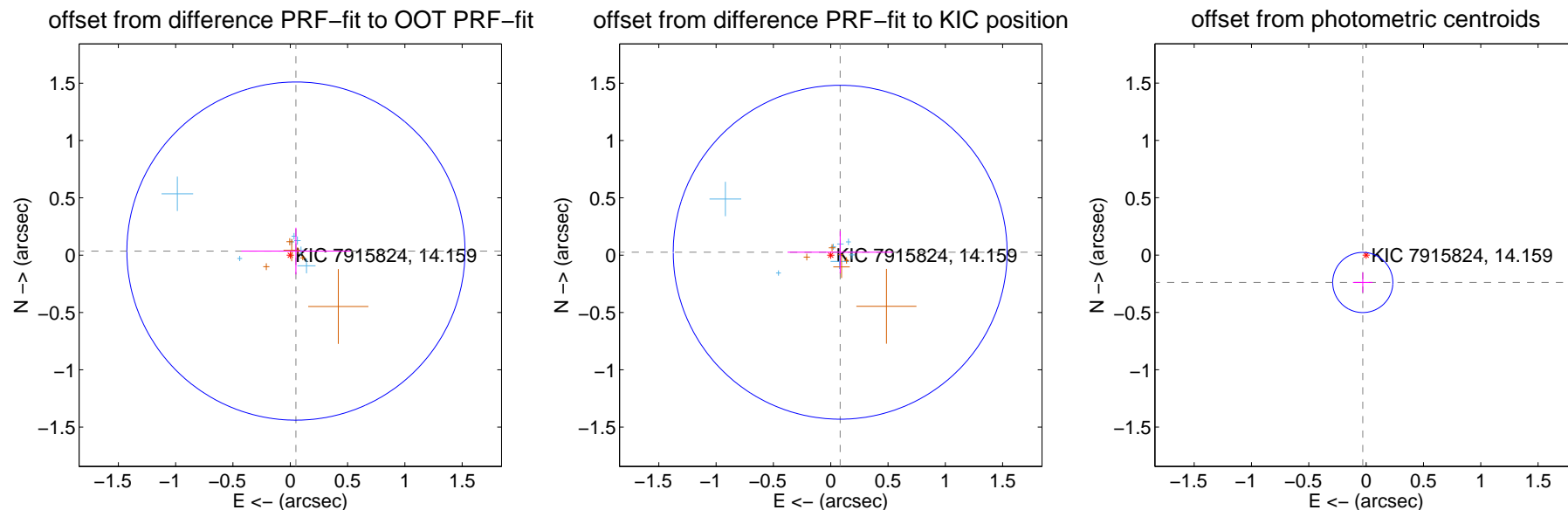
DV Centroid Data

Supplemental centroid analysis for 007915824-03. Kepler magnitude: 14.16. Transit SNR 10.85

There are 7 quarters with good PRF difference image offsets

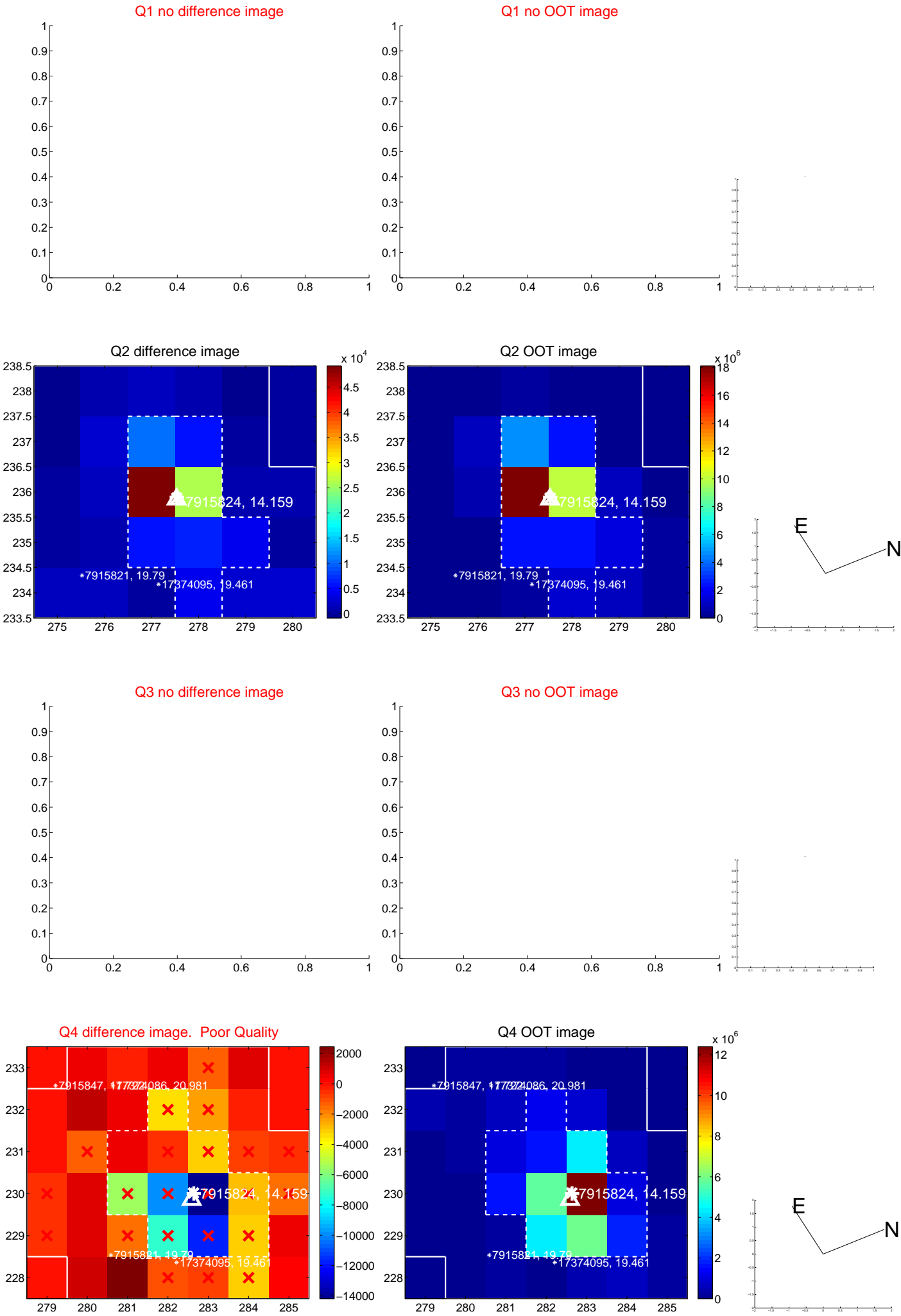
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.061 ± 0.492	0.12	-0.050 ± 0.477	0.036 ± 0.203
PRF-fit source offset from KIC position	0.086 ± 0.486	0.18	-0.082 ± 0.459	0.026 ± 0.185
photometric centroid source offset	0.24 ± 0.09	2.75	0.03 ± 0.09	-0.24 ± 0.09

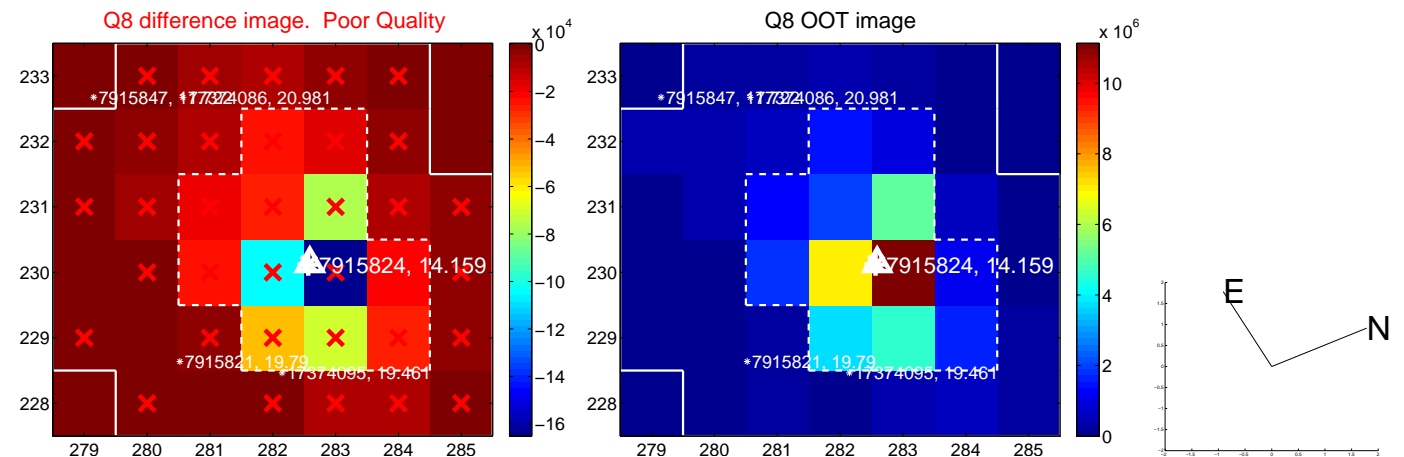
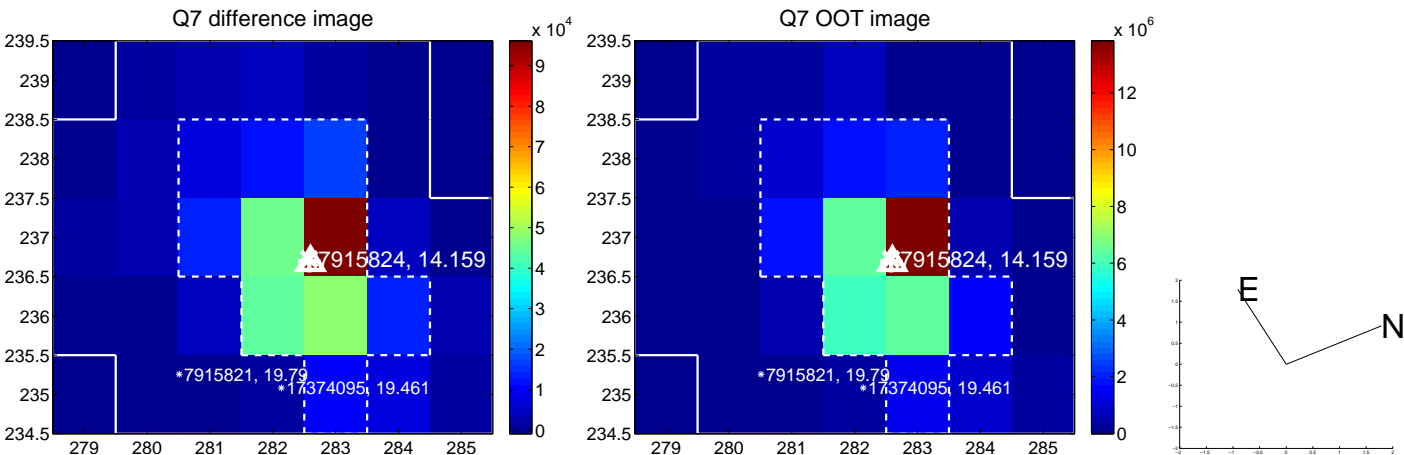
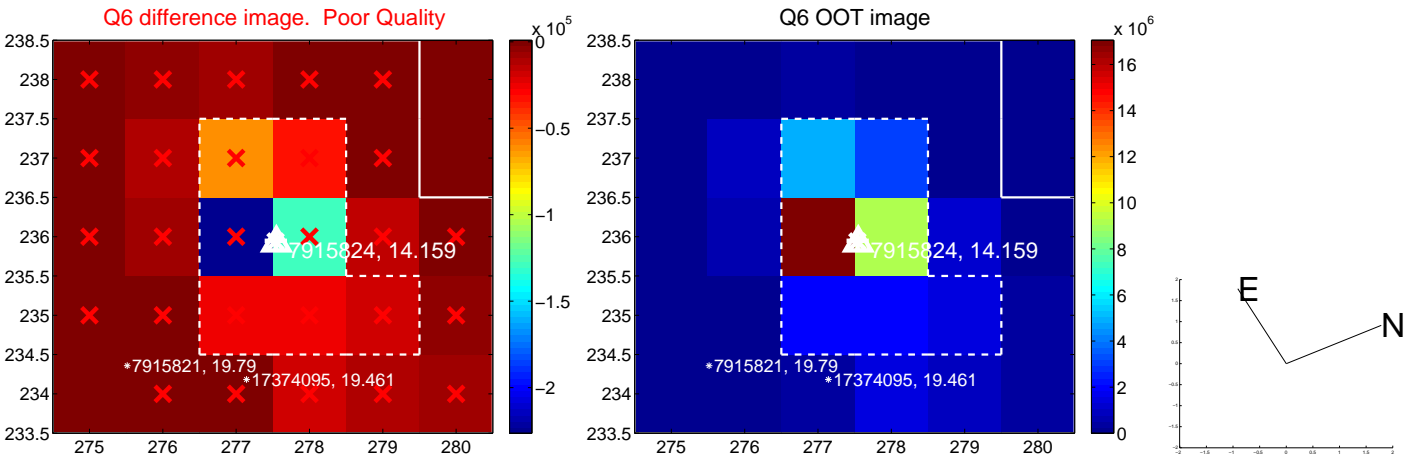
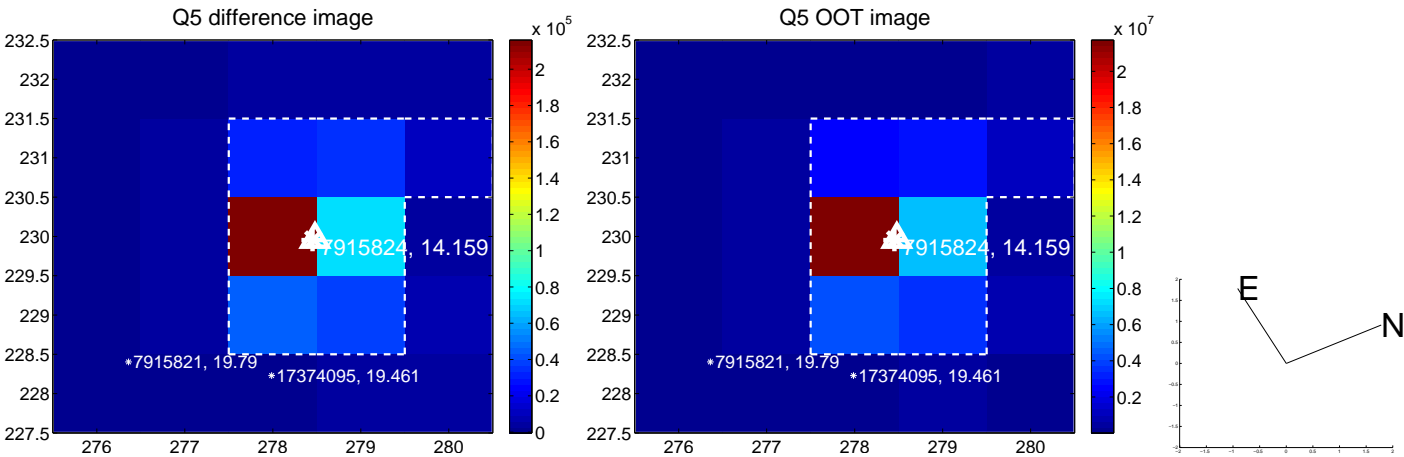


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

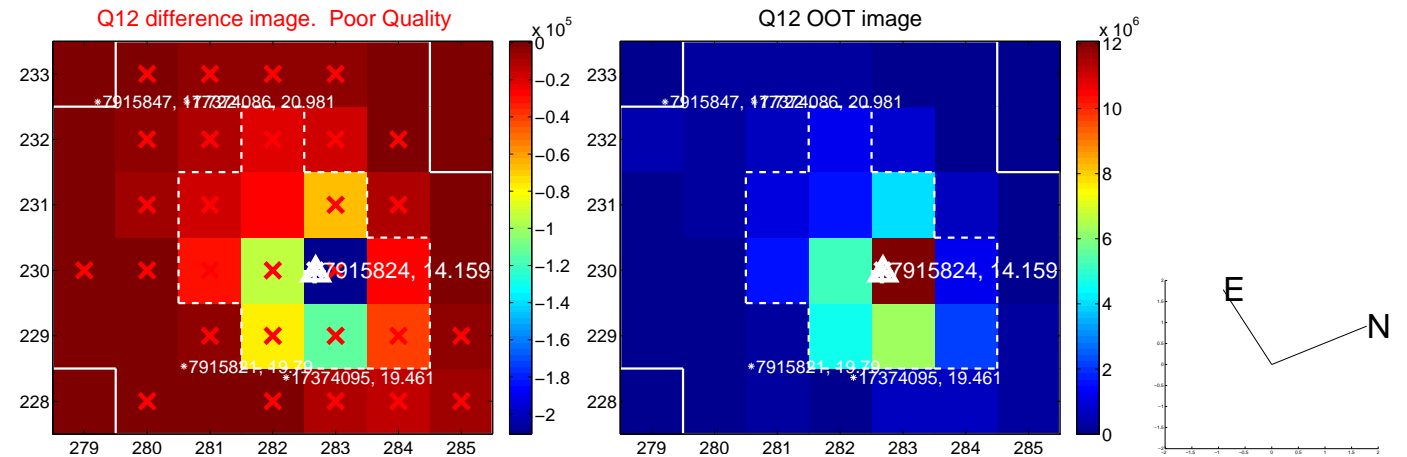
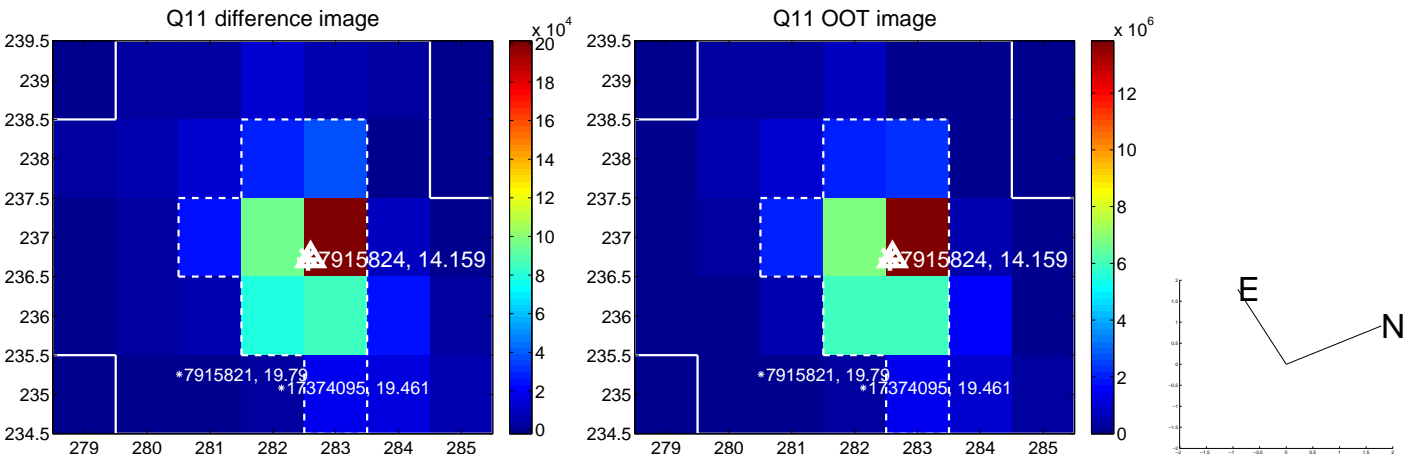
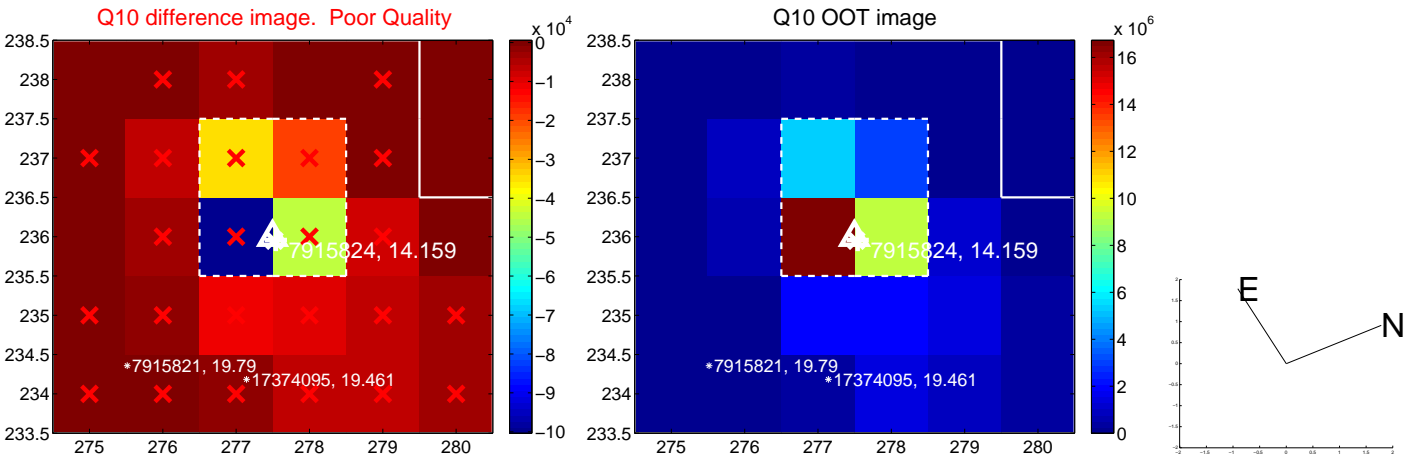
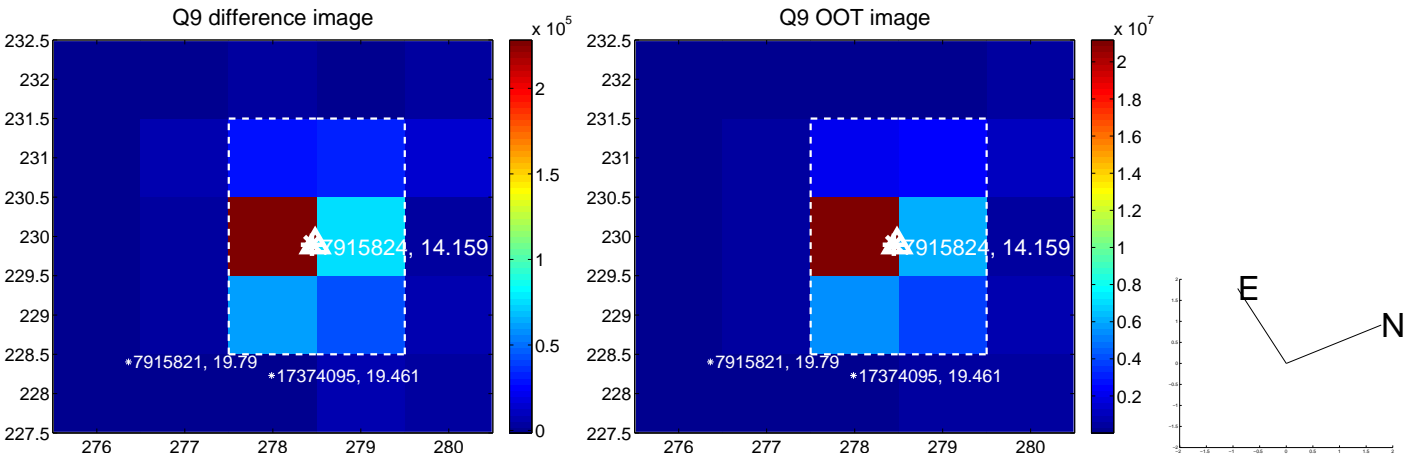
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



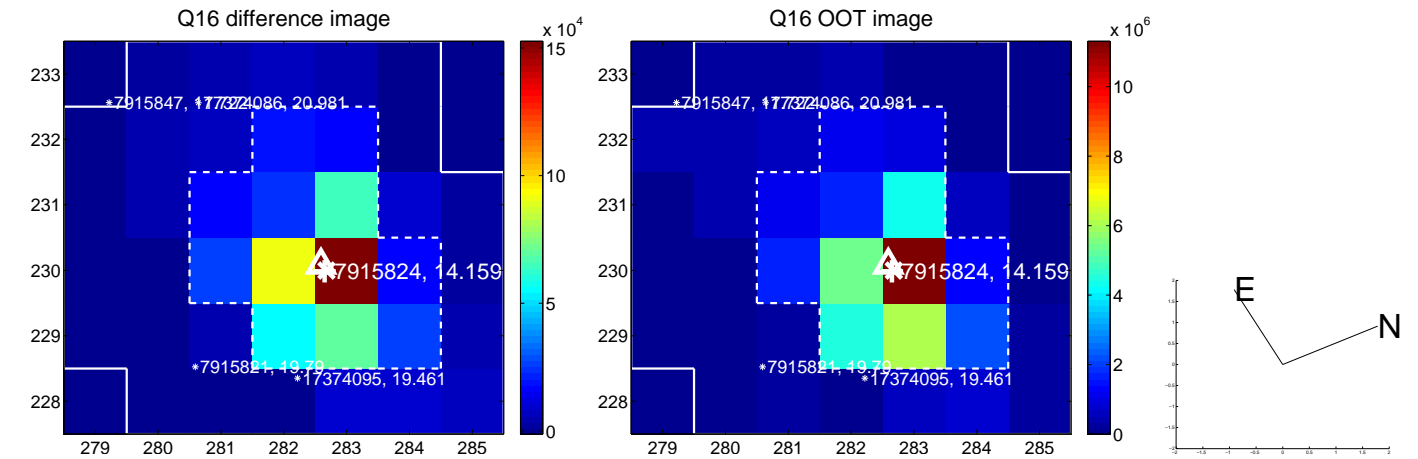
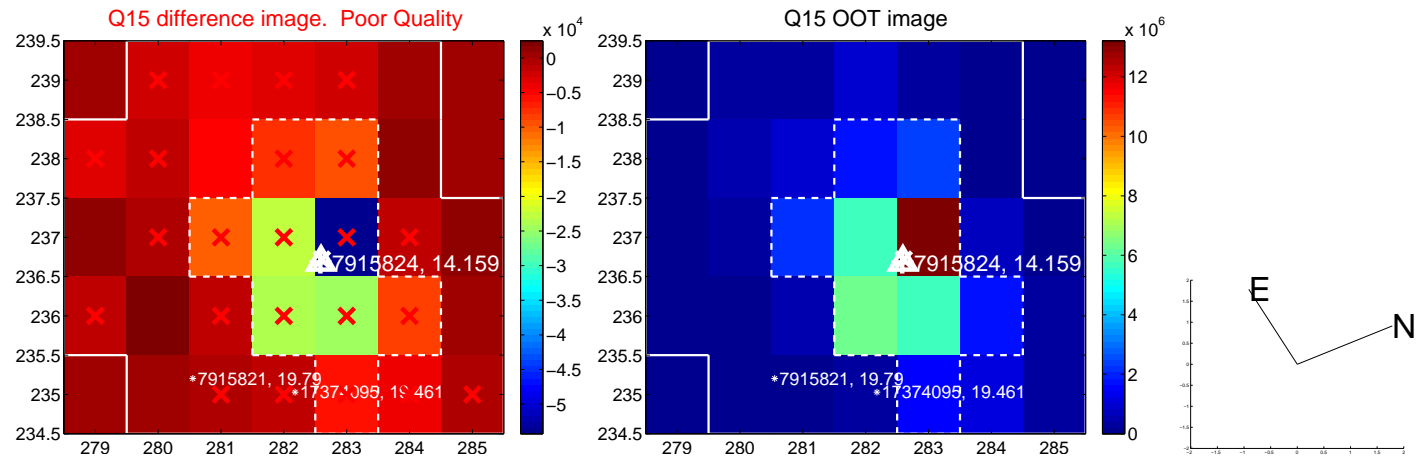
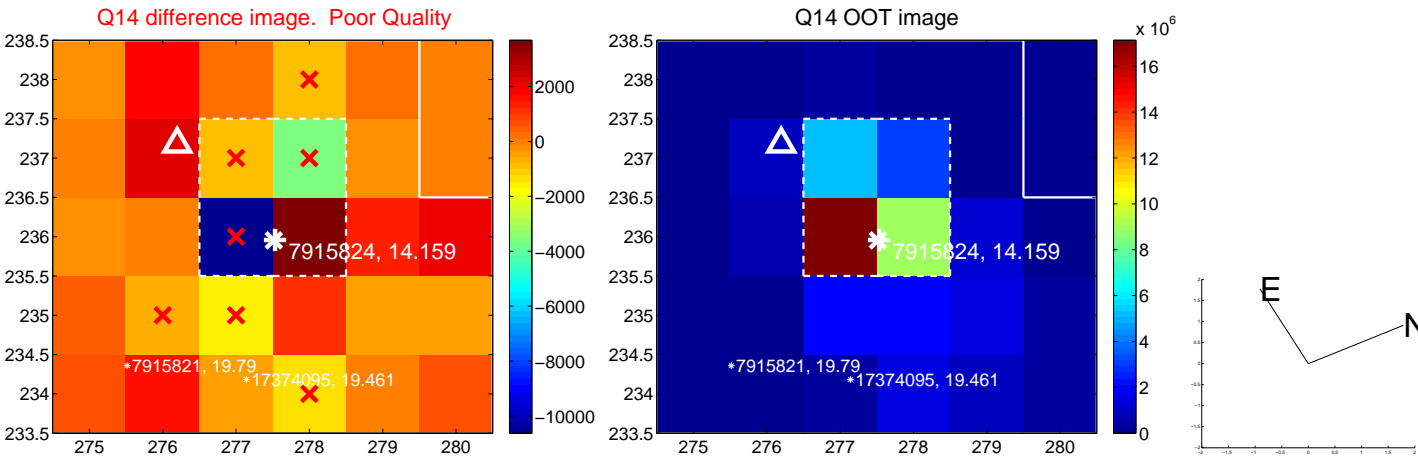
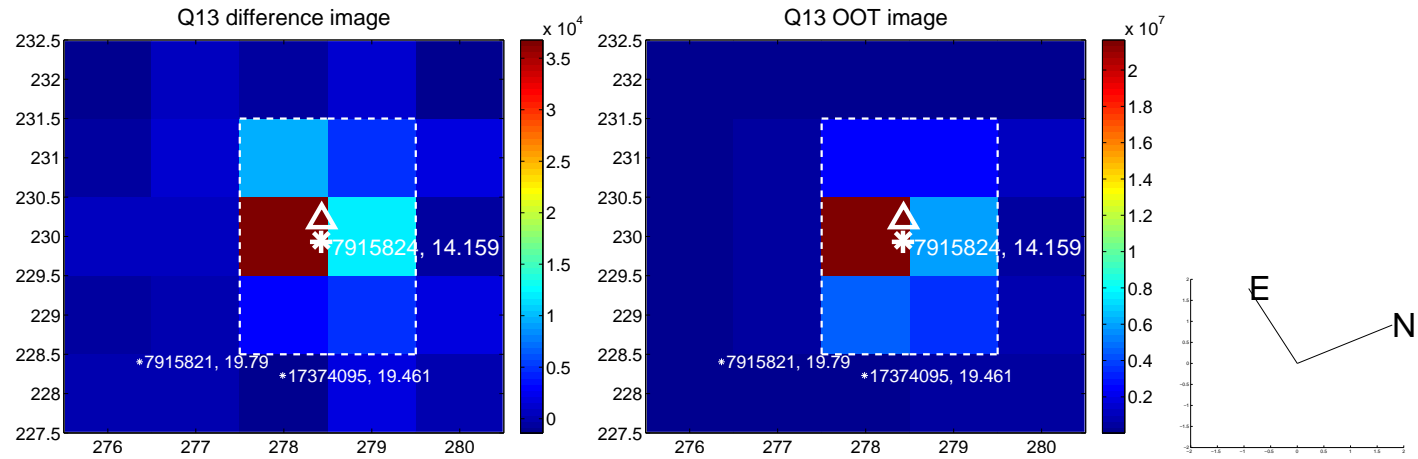
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



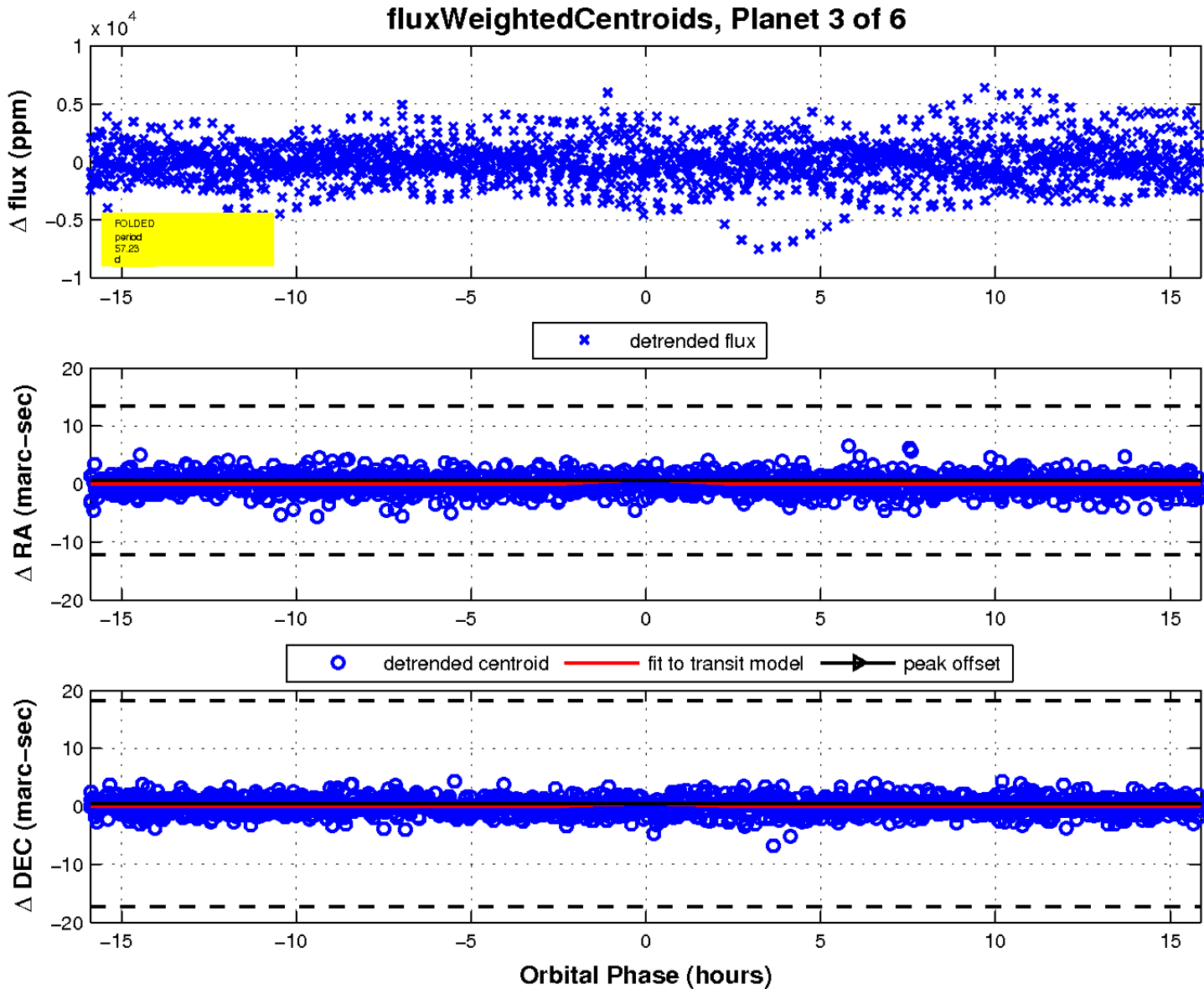
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

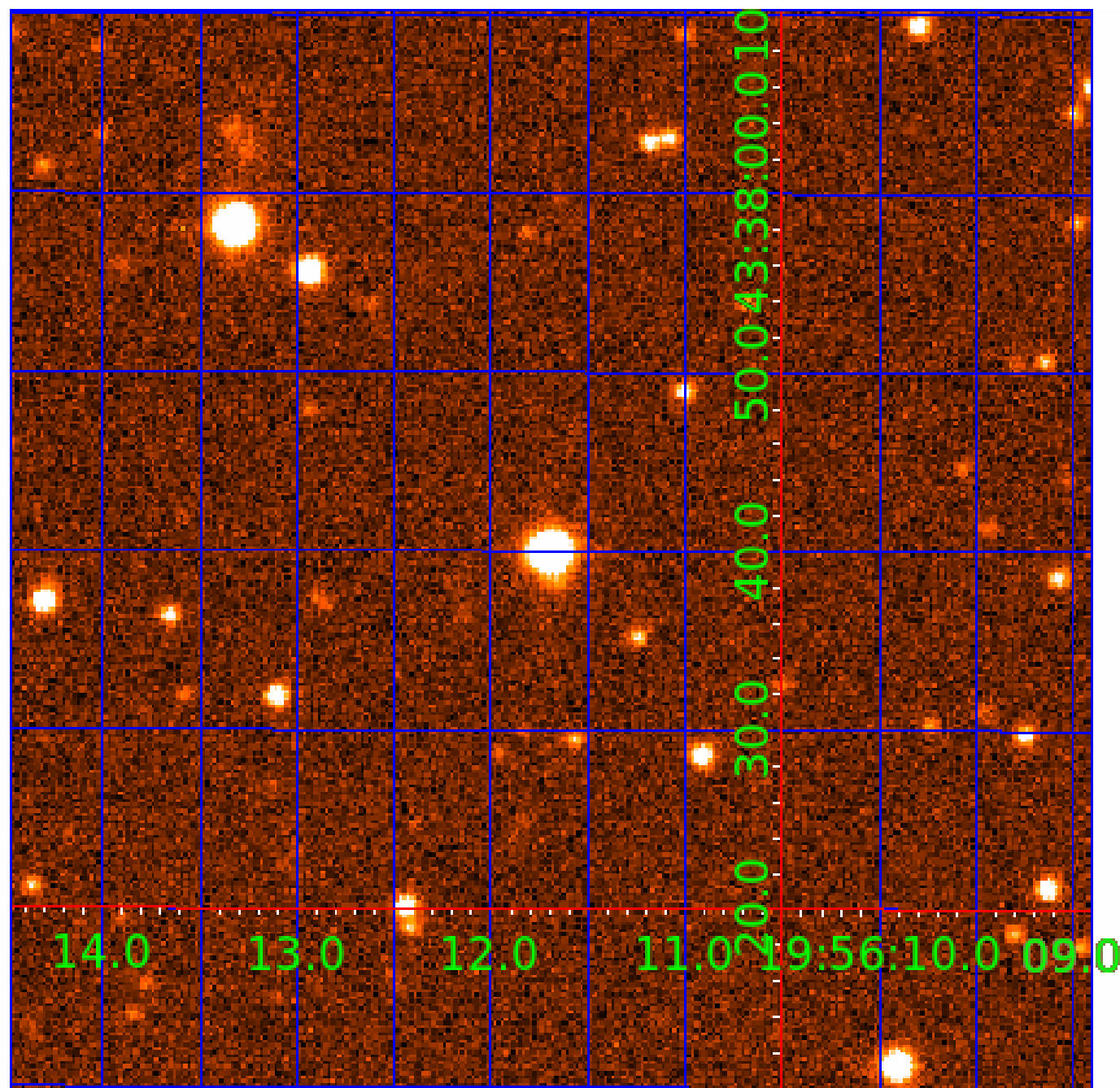
Q17 no difference image

Q17 no OOT image



UKIRT Image

Declination



KIC 007915824

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})
007915824-01	OBS	No	0.730035	131.949210	76.1	5.355	8.1	5.7	0.89	6230	0.91	4487.09
007915824-02	OBS	No	8.781913	133.846237	2504.7	0.836	10.5	7.8	0.89	6230	4.58	162.79
007915824-03	OBS	No	57.230318	177.873764	4620.7	5.298	11.6	10.8	0.89	6230	10.70	13.37
007915824-04	OBS	No	7.941824	135.335995	1018.3	1.500	11.2	-1.0	0.89	6230	2.87	186.15
007915824-06	OBS	No	9.341086	132.542699	675.5	0.571	8.0	1.6	0.89	6230	2.44	149.93

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007915824-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV
007915824-02	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
007915824-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES
007915824-04	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_NOFITS
007915824-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST

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

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

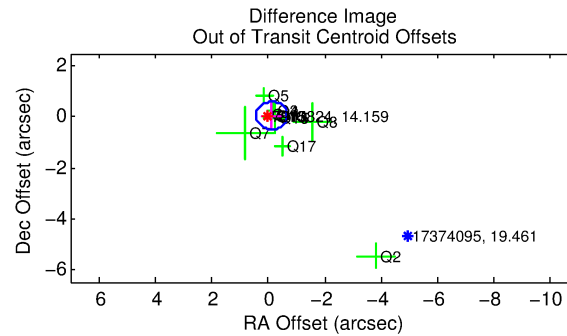
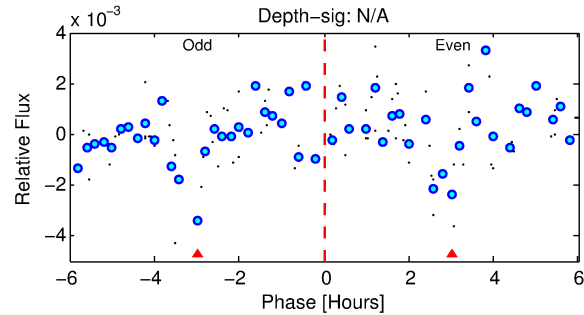
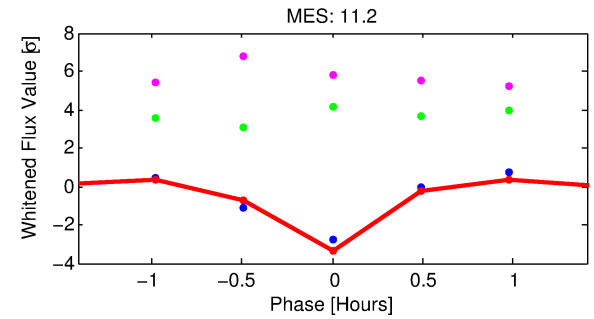
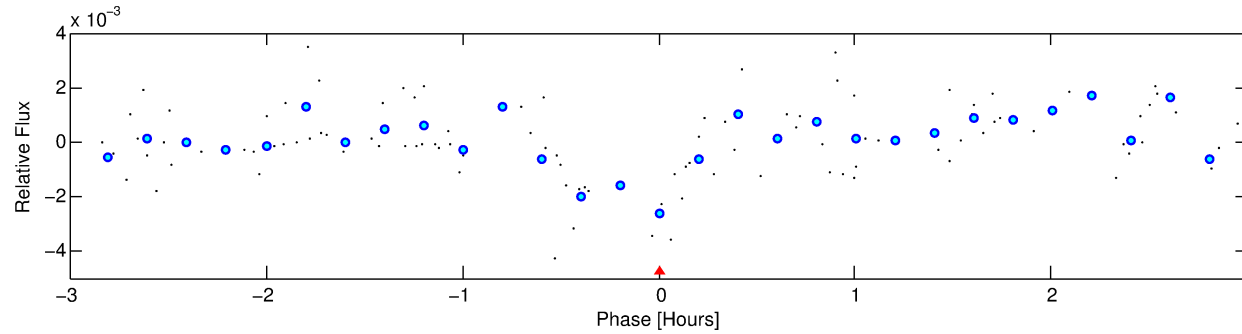
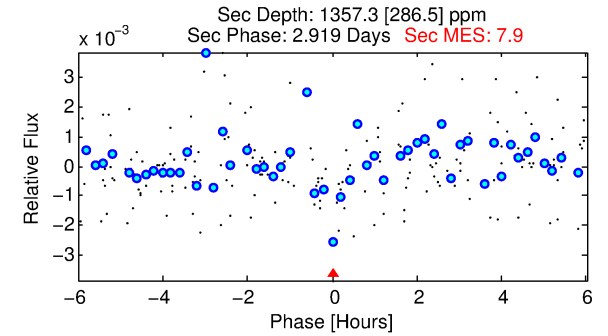
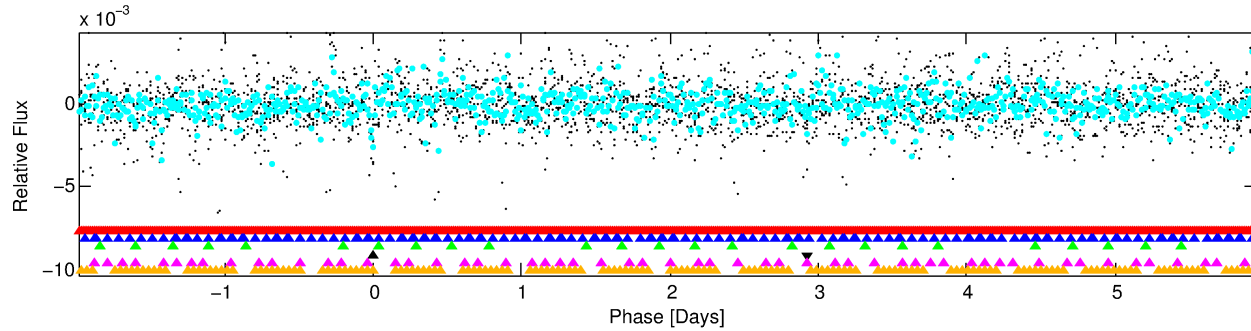
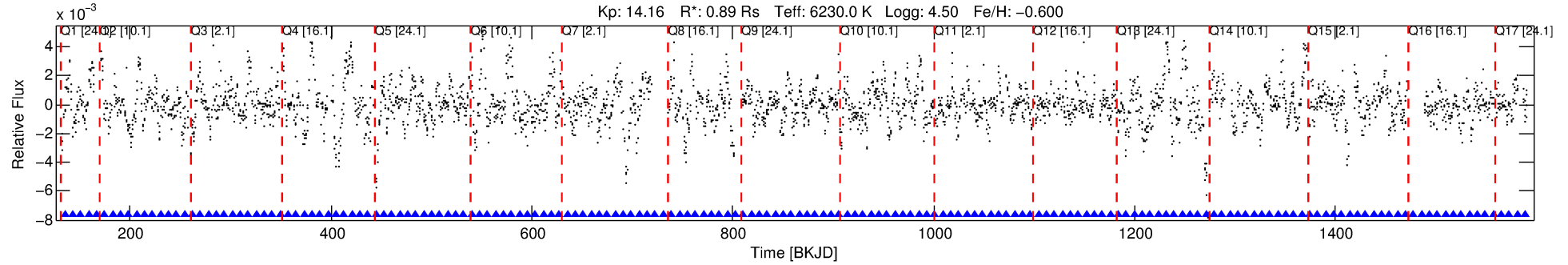
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007915824-04

No Significant Match Found

DV One-Page Summary

KIC: 7915824 Candidate: 4 of 6 Period: 7.942 d



TPS TCE Results:

Period = 7.94182 d
Epoch = 135.3360 BKJD

DV fit results are unavailable

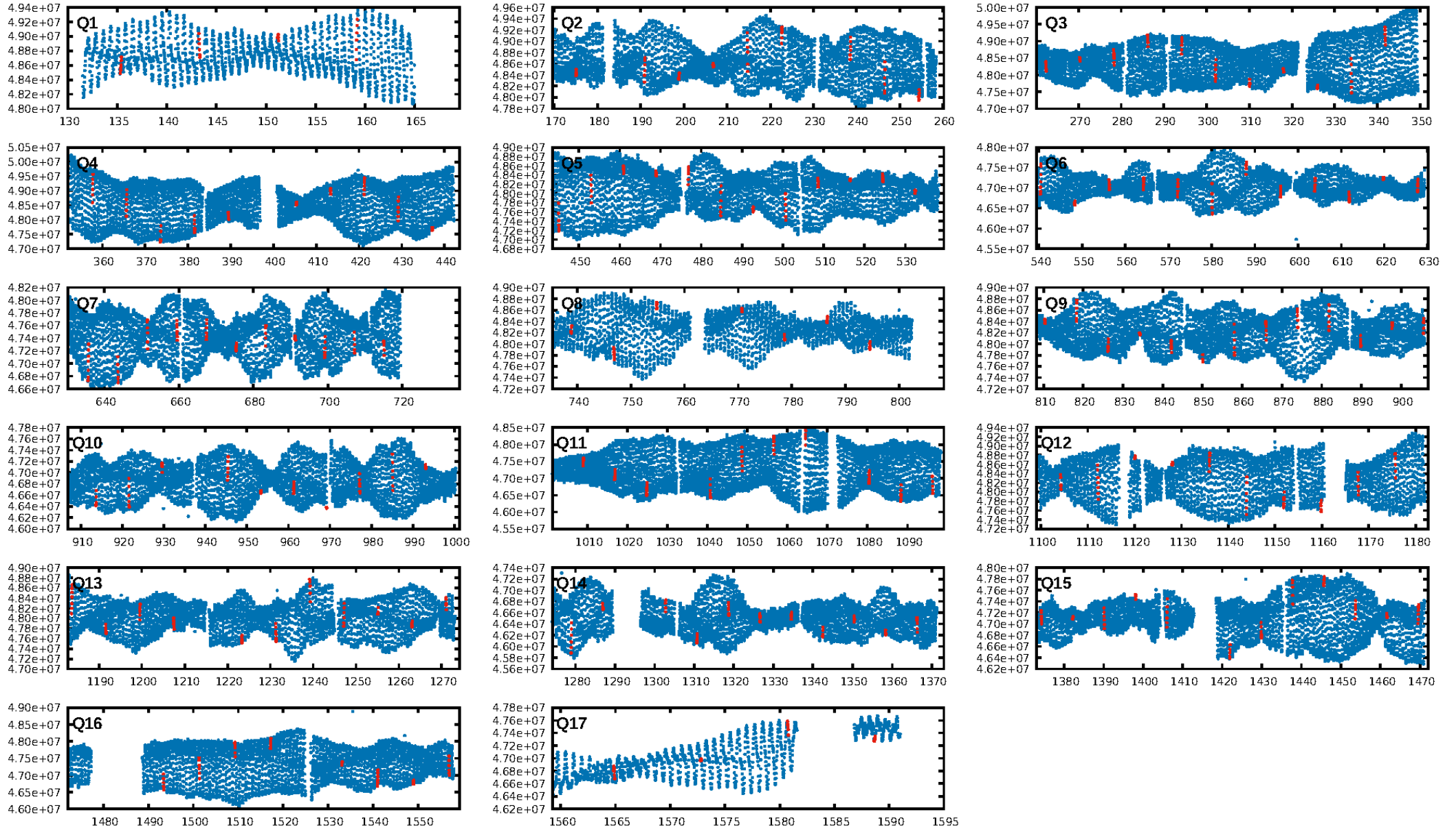
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [31.13σ]
LongPeriod-sig: 100.0% [11.74σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.17e-14
RollingBand-fgt: 1.00 [20/20]
GhostDiagnostic-chr: 0.3932
Centroid-sig: 14.1%
Centroid-so: 0.271 arcsec [5.33σ]
OotOffset-rm: 0.131 arcsec [0.72σ]
KicOffset-rm: 0.163 arcsec [0.62σ]
OotOffset-st: 2/4/3/3 [12]
KicOffset-st: 2/4/3/3 [12]
DiffImageQuality-fgm: 0.33 [4/12]
DiffImageOverlap-fno: 0.46 [6/13]

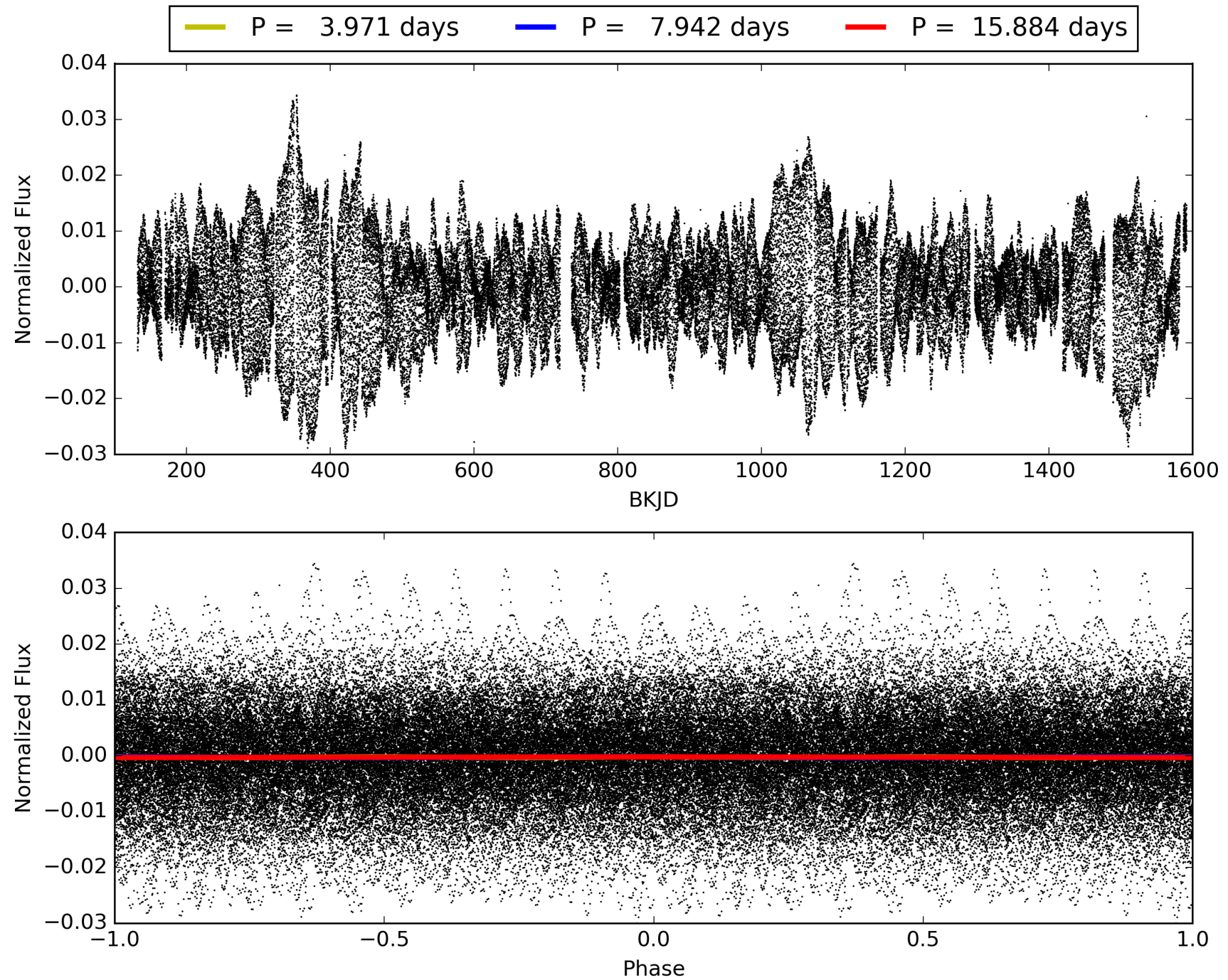
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:54:47 Z

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

TCE 007915824-04, PDC Light Curves

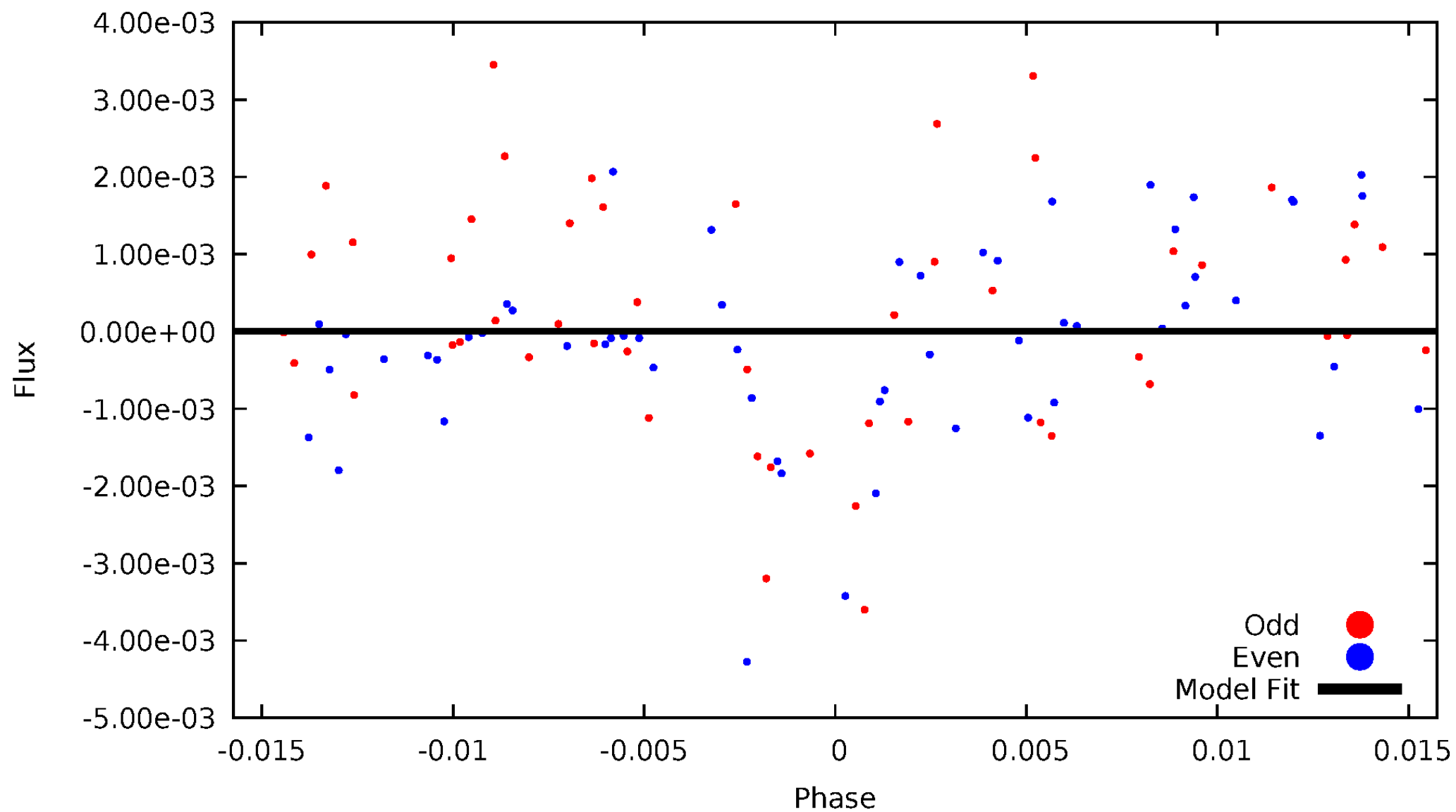


TCE 007915824-04



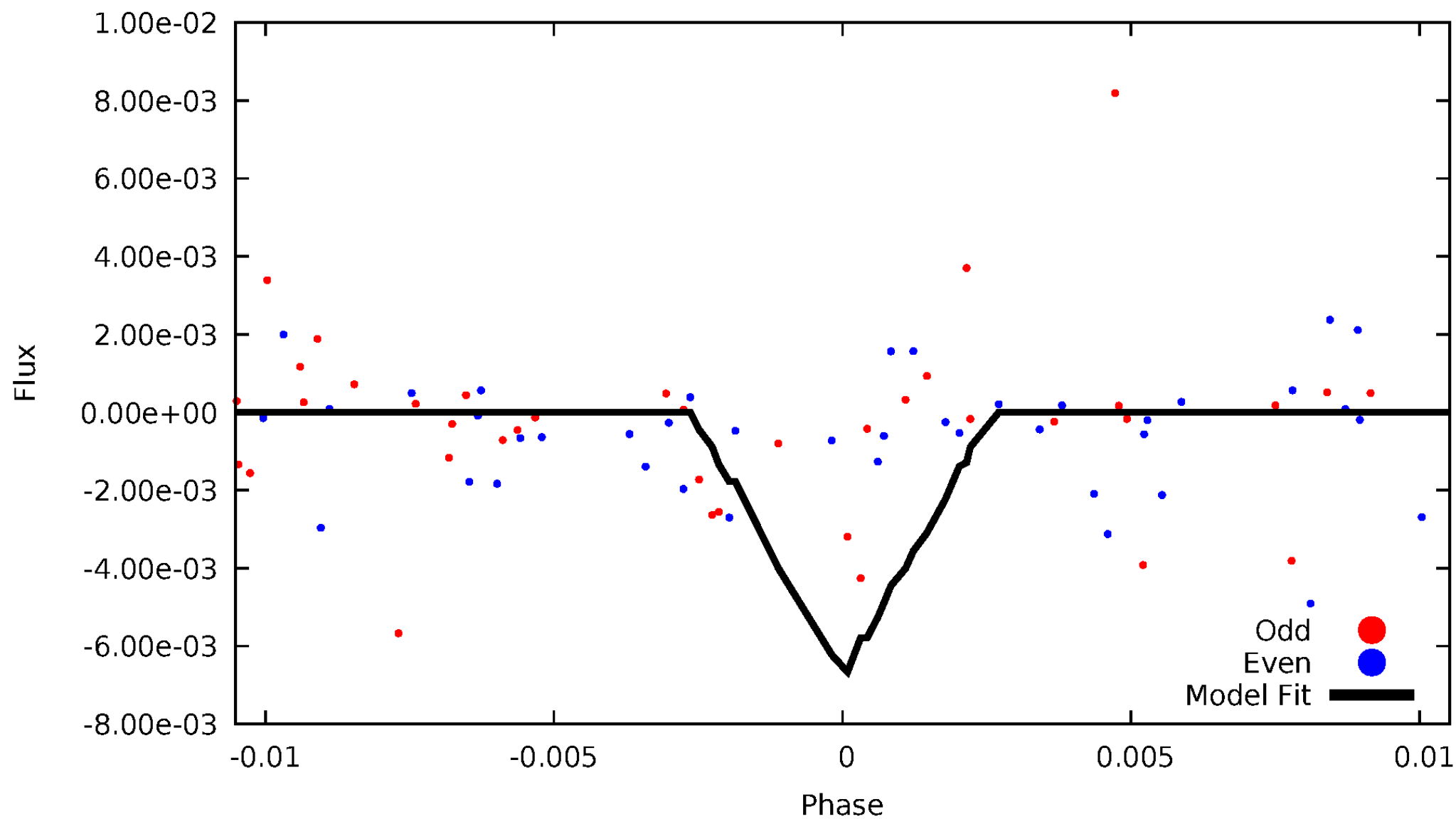
DV Odd/Even

TCE 007915824-04



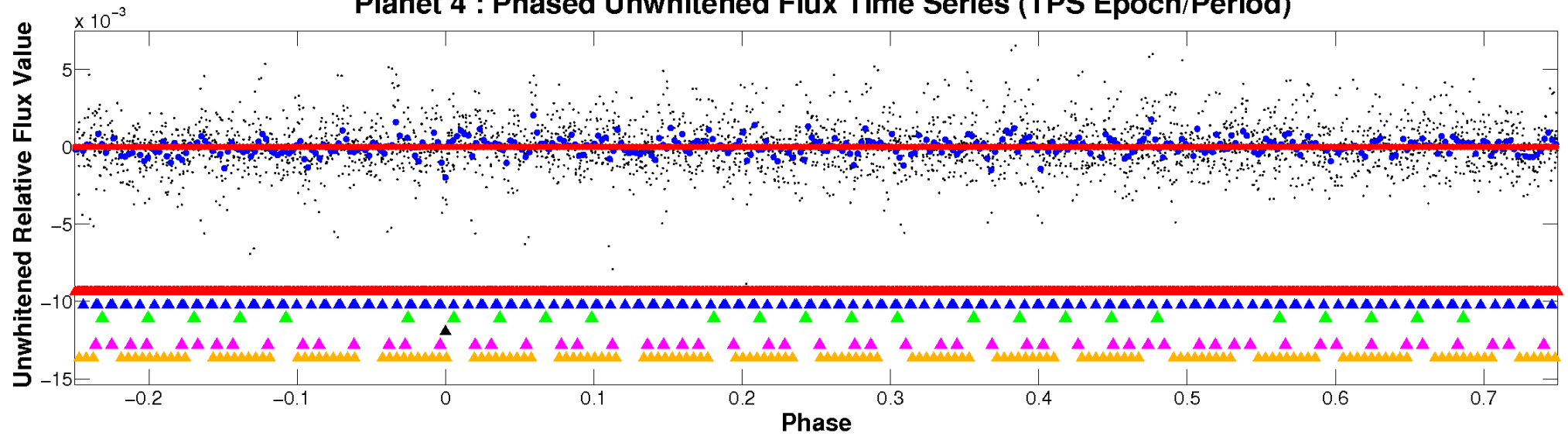
ALT Odd/Even

TCE 007915824-04

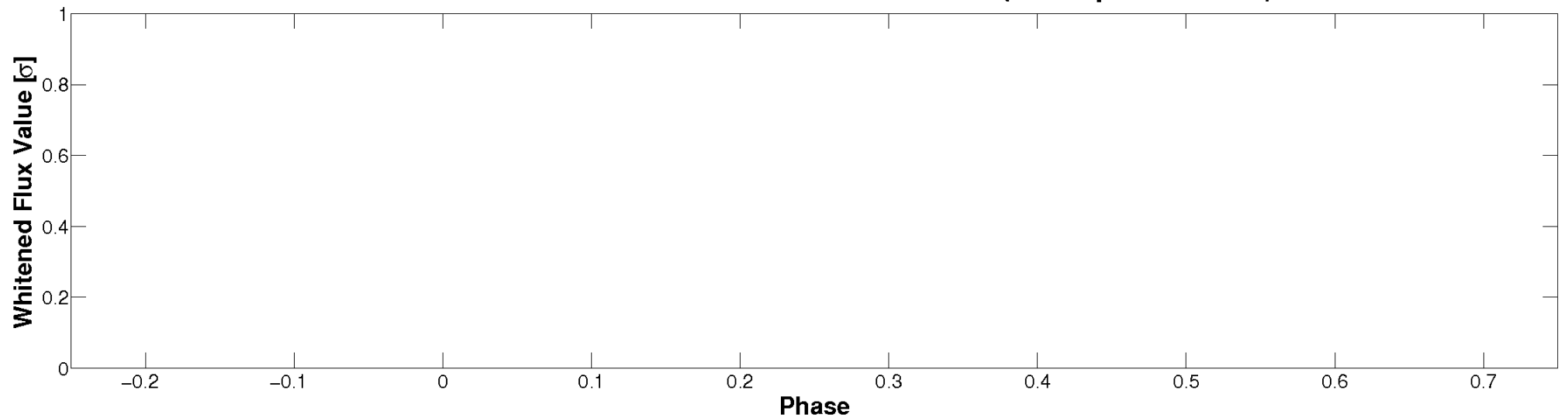


Non-Whitened Vs. Whitened Light Curve

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

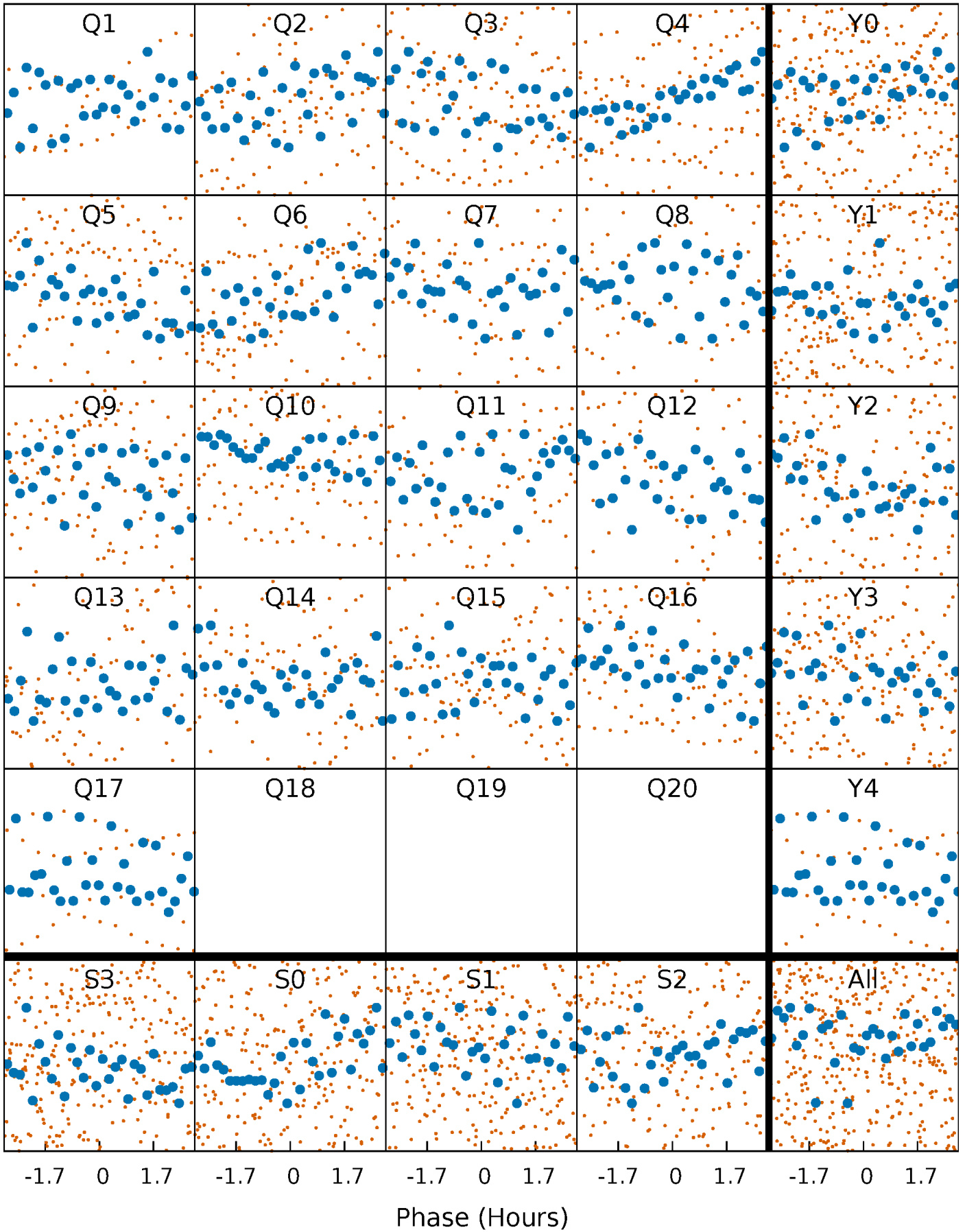


Planet 4 : Phased Whitened Flux Time Series (TPS Epoch/Period)



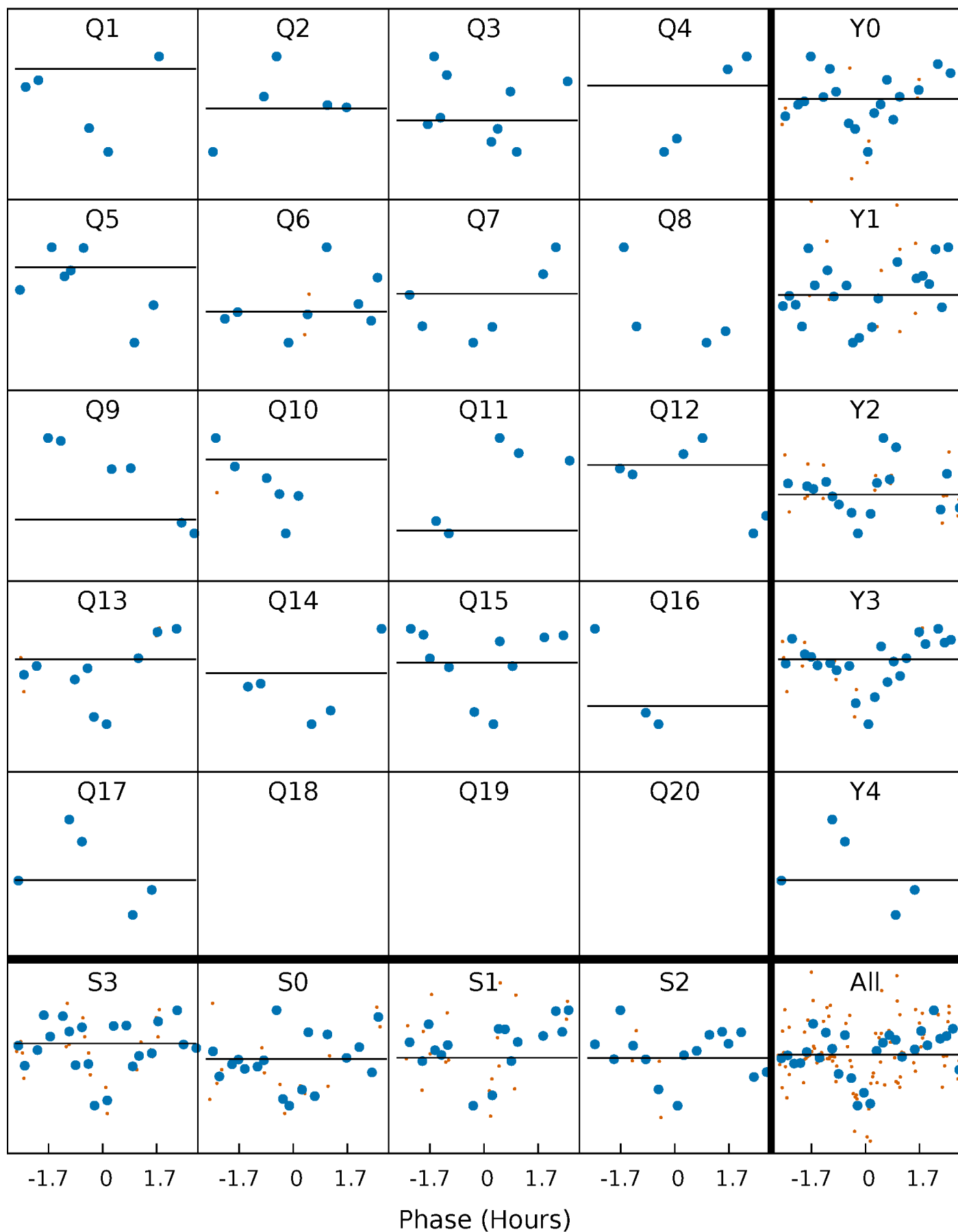
PDC Quarter-Phased Transit Curves

TCE 007915824-04 P= 7.941824 Days $T_0=135.335995$ (BKJD)



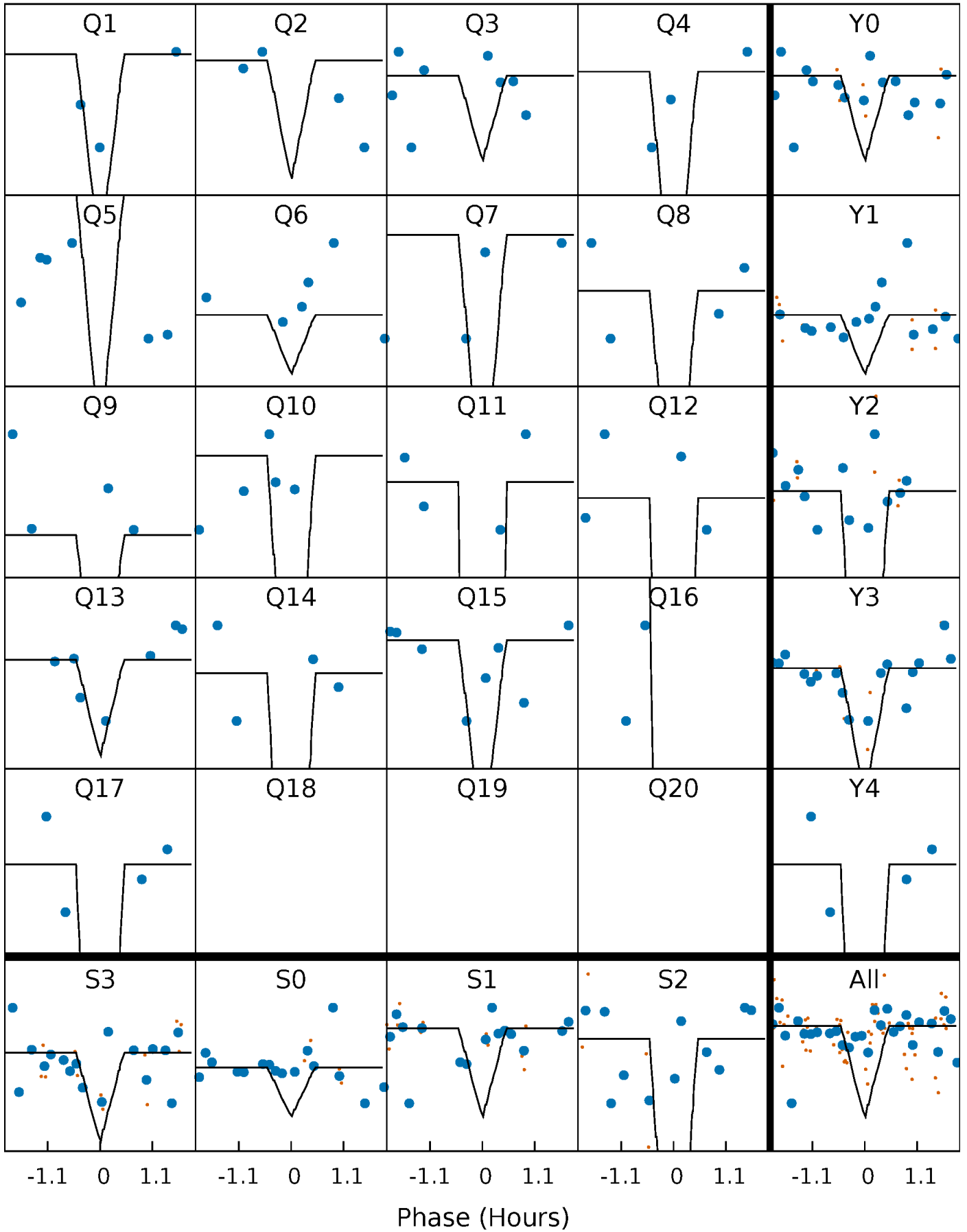
DV Quarter-Phased Transit Curves

TCE 007915824-04 P= 7.941824 Days $T_0=135.335995$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

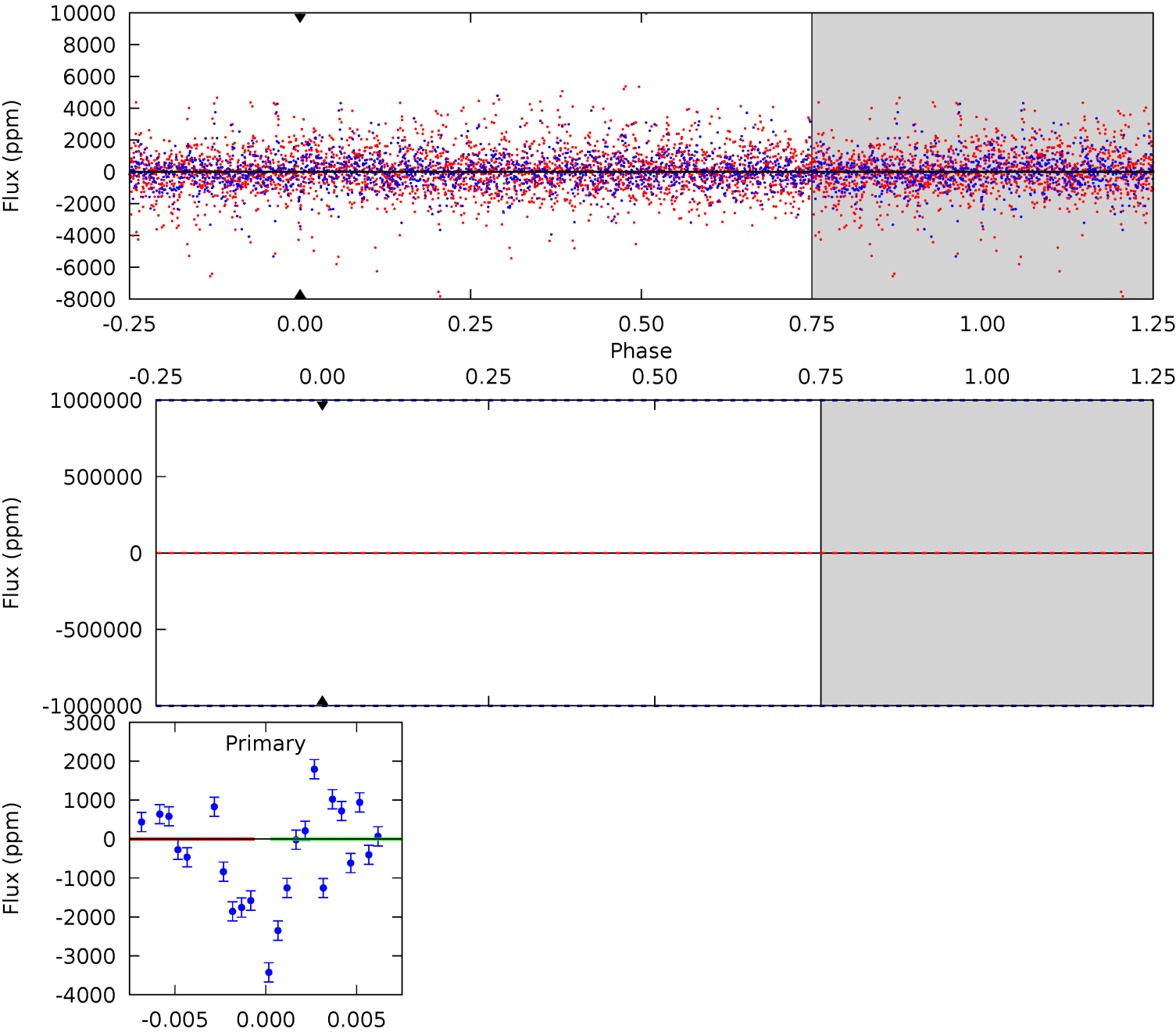
TCE 007915824-04 P= 7.941824 Days $T_0=135.339583$ (BKJD)



DV Model-Shift Uniqueness Test

007915824-04, P = 7.941824 Days, E = 127.394171 Days

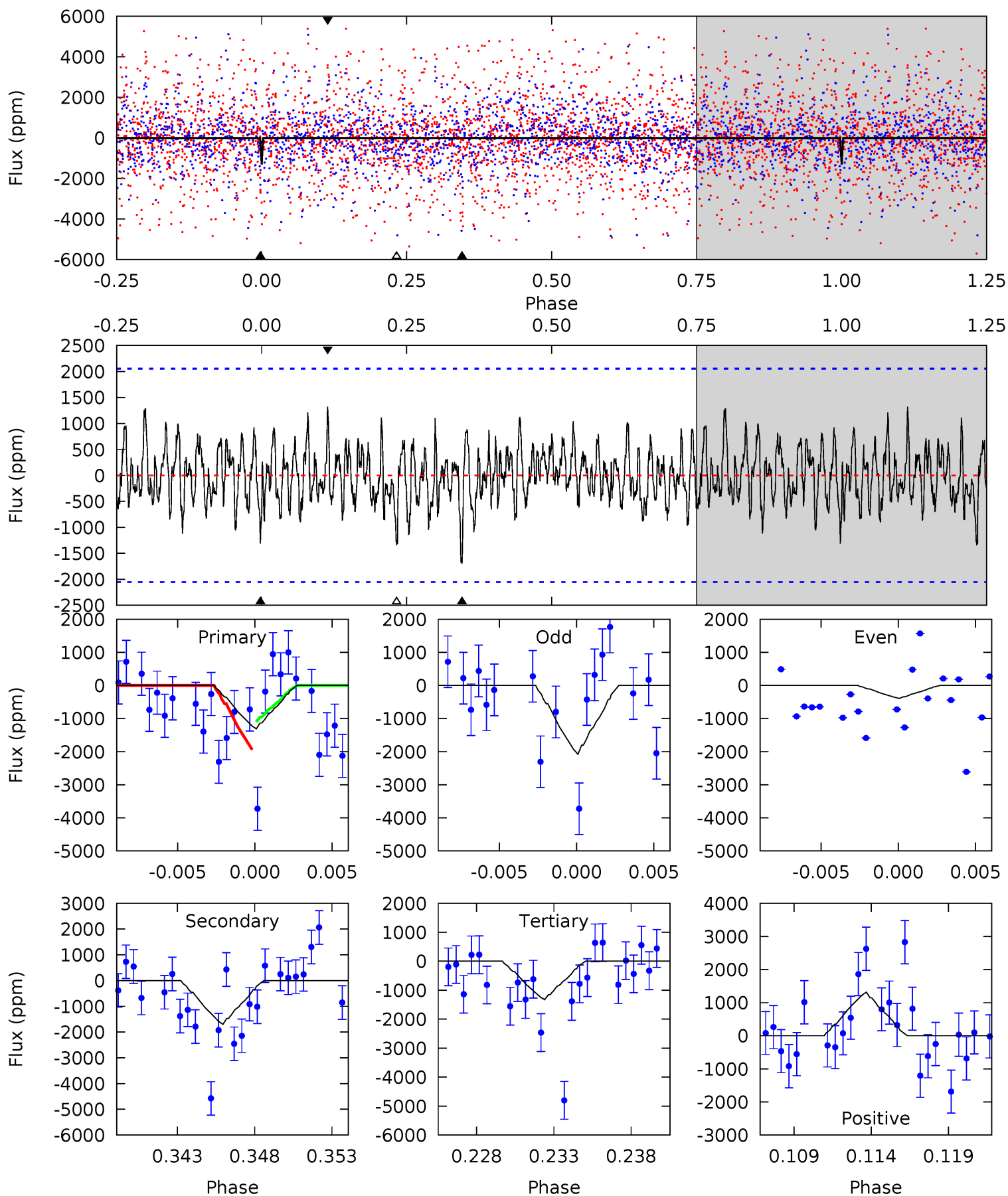
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007915824-04, P = 7.941824 Days, E = 127.397759 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.29	4.26	3.33	3.31	5.16	2.81	1.15	-0.04	-0.01	0.93	0.95	2.14	1.22	0.44	0.97



Stellar Parameters For KIC 007915824

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6230^{+169}_{-206}	$4.504^{+0.065}_{-0.195}$	$-0.600^{+0.300}_{-0.300}$	$0.892^{+0.252}_{-0.084}$	$0.926^{+0.104}_{-0.104}$	$1.838^{+0.478}_{-0.921}$
	+3%/-3%	+1%/-4%	+50%/-50%	+28%/-9%	+11%/-11%	+26%/-50%
Source	PHO1	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 007915824-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$7.44^{+7.75}_{-5.29}$	1332^{+95}_{-62}	4578^{+23152}_{-29048}	63^{+11657}_{-10038}
Alt.	-1697 ± 398	$10.45^{+9.78}_{-6.77}$	1336^{+85}_{-61}	4161^{+2409}_{-831}	48^{+309}_{-35}

T_{max} = Theoretical Maximum Planetary Temperature

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

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

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

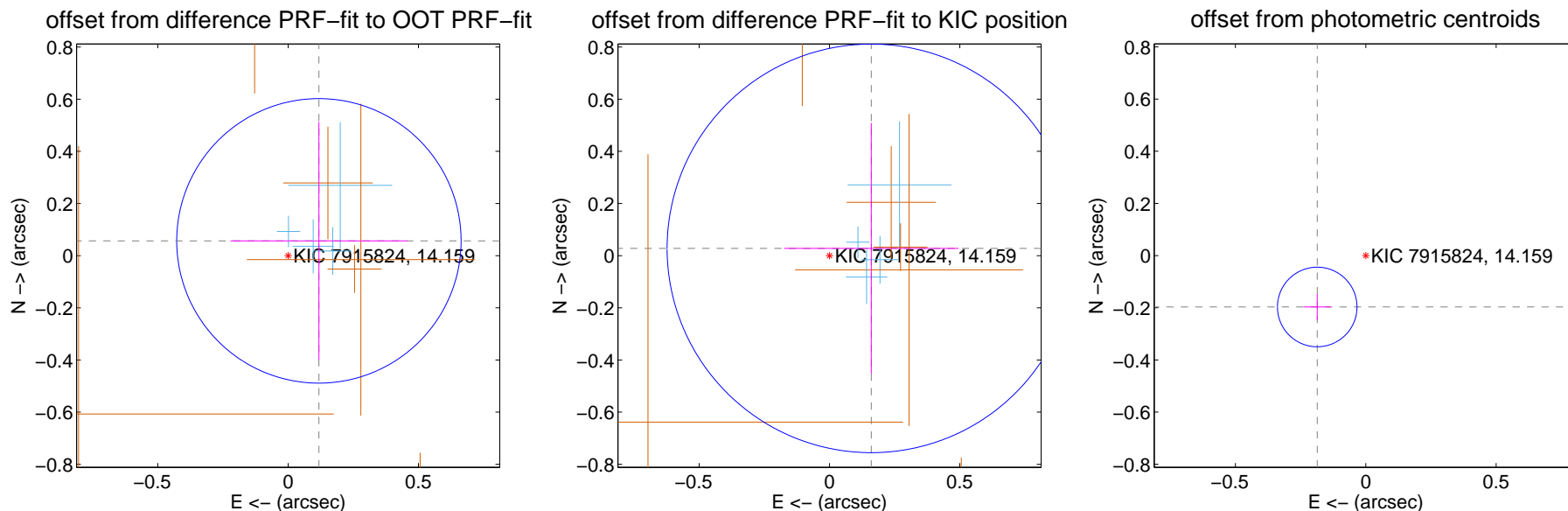
DV Centroid Data

Supplemental centroid analysis for 007915824-04. Kepler magnitude: 14.16. Transit SNR -1.00

There are 4 quarters with good PRF difference image offsets

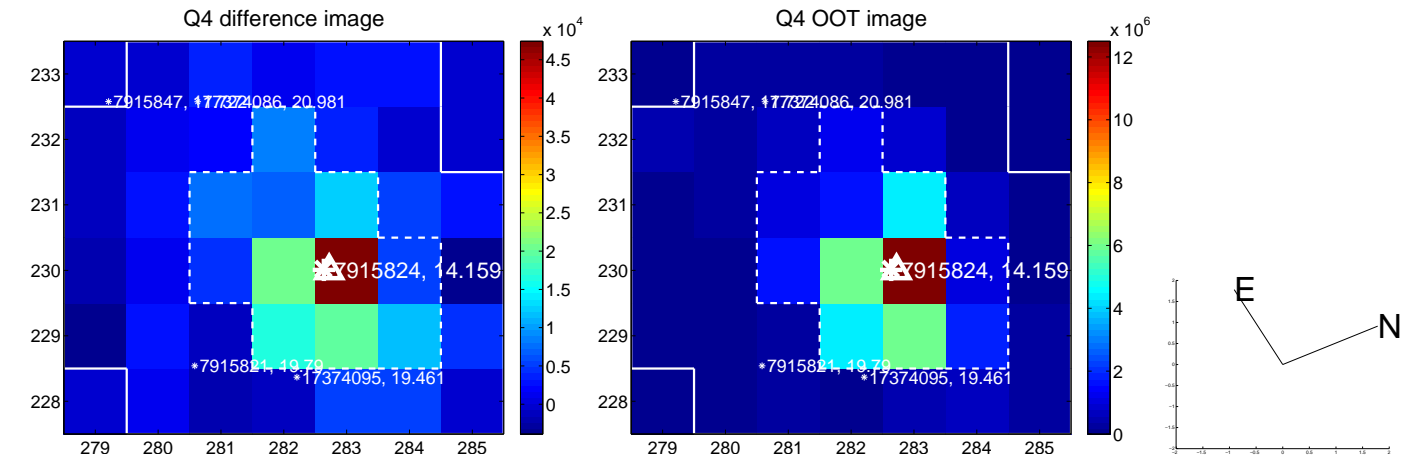
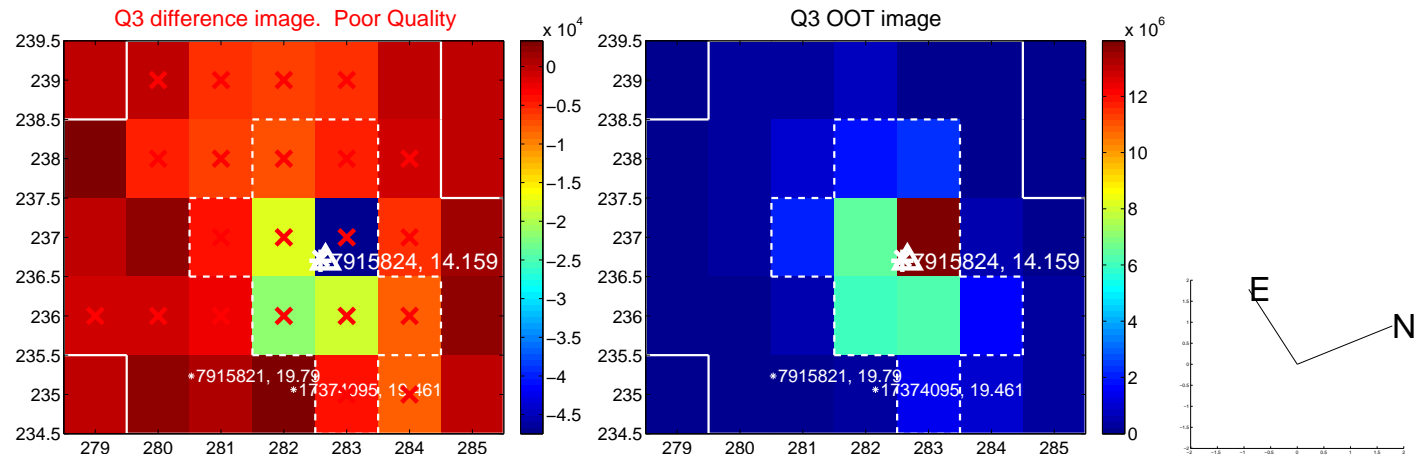
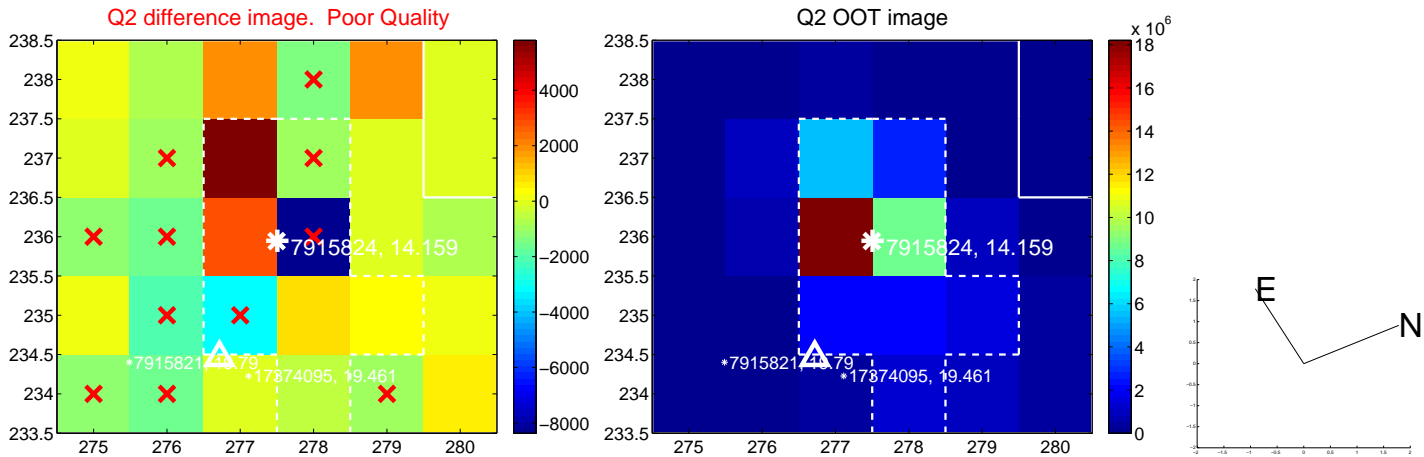
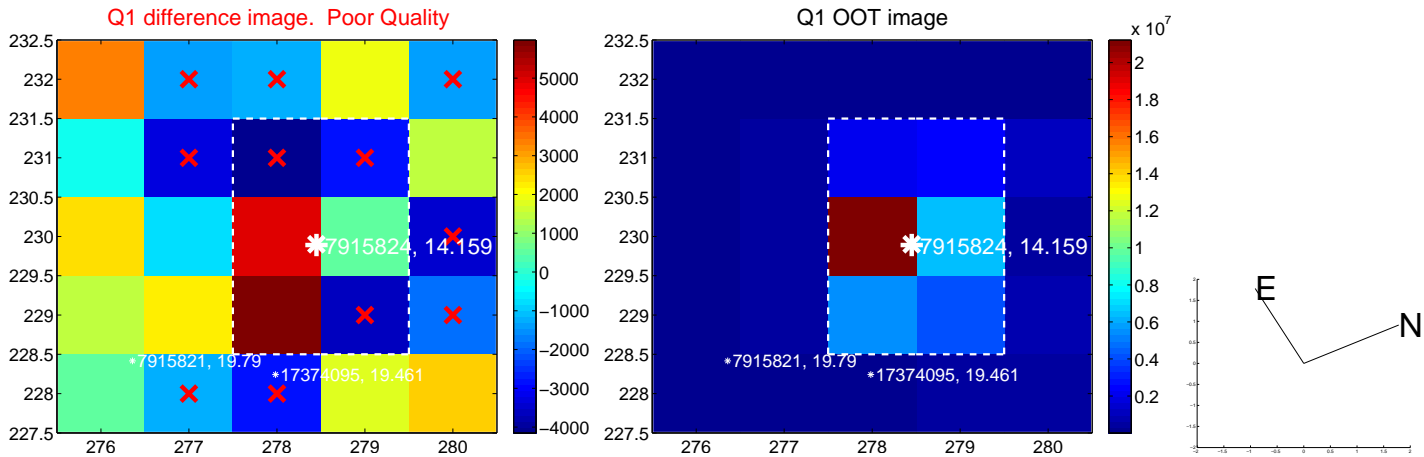
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.131 ± 0.182	0.72	-0.118 ± 0.339	0.057 ± 0.456
PRF-fit source offset from KIC position	0.163 ± 0.261	0.62	-0.160 ± 0.335	0.028 ± 0.481
photometric centroid source offset	0.27 ± 0.05	5.33	0.19 ± 0.05	-0.20 ± 0.05

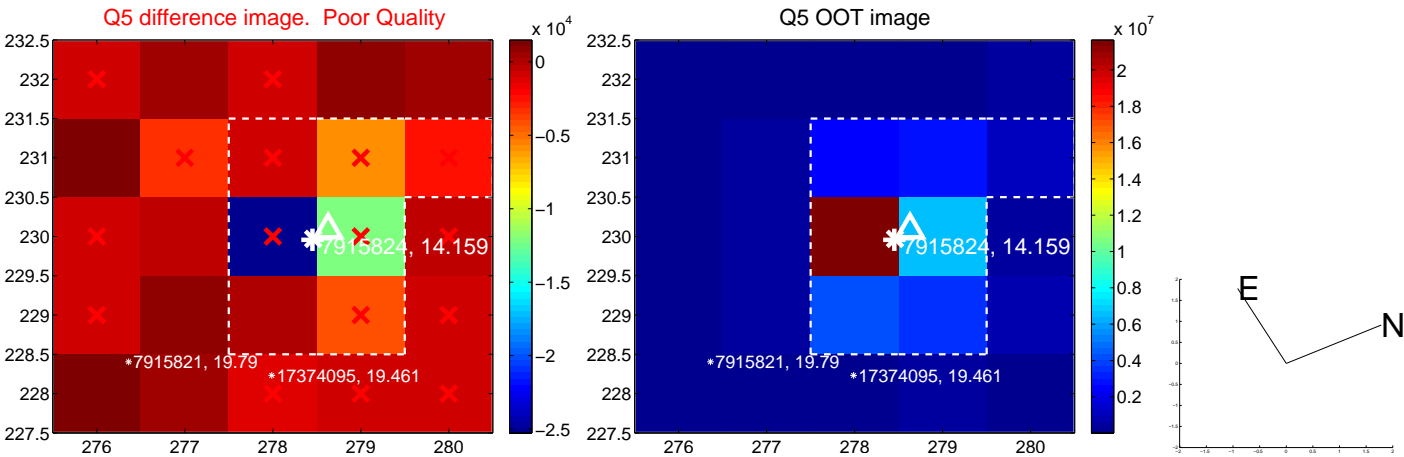


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

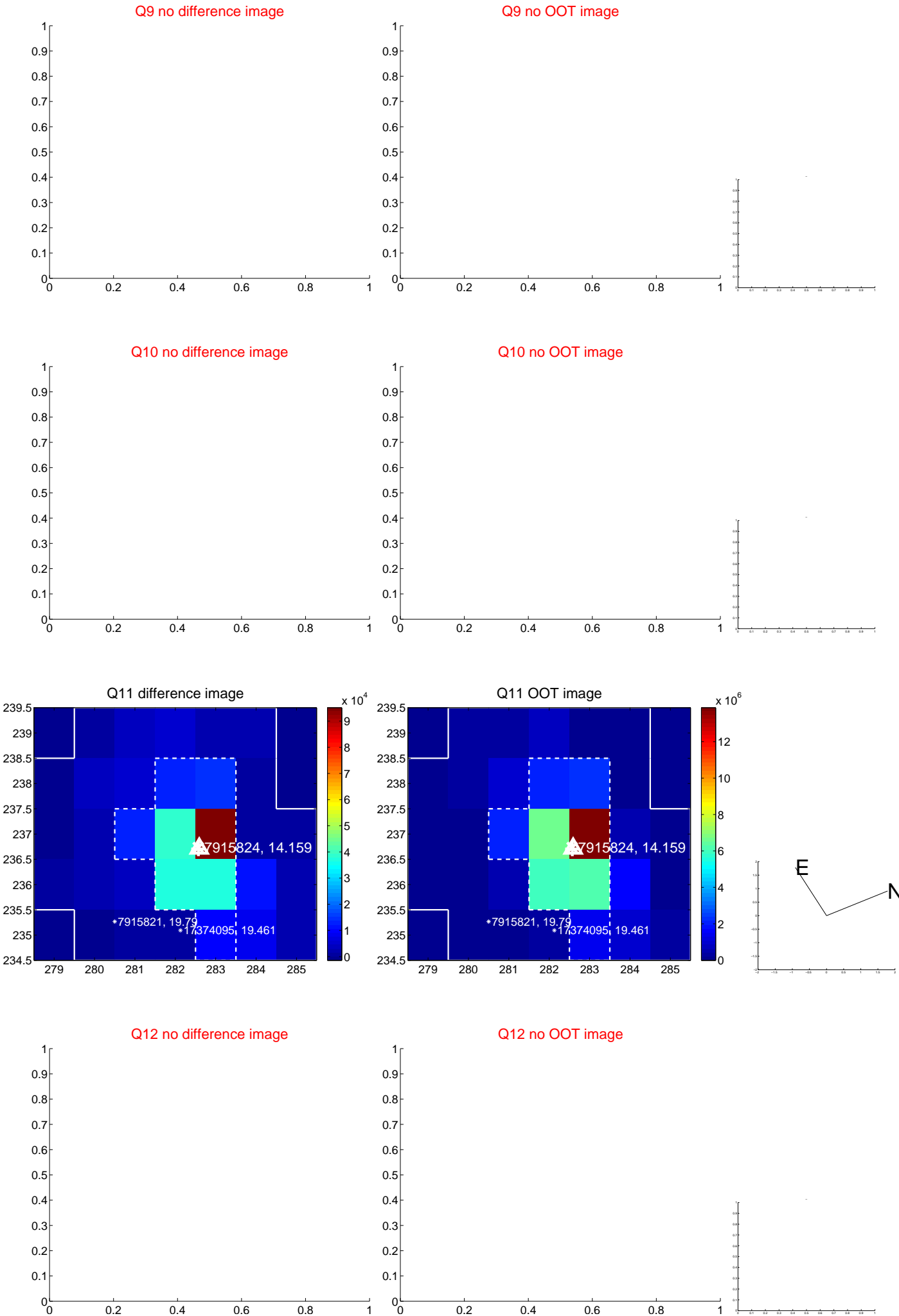
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



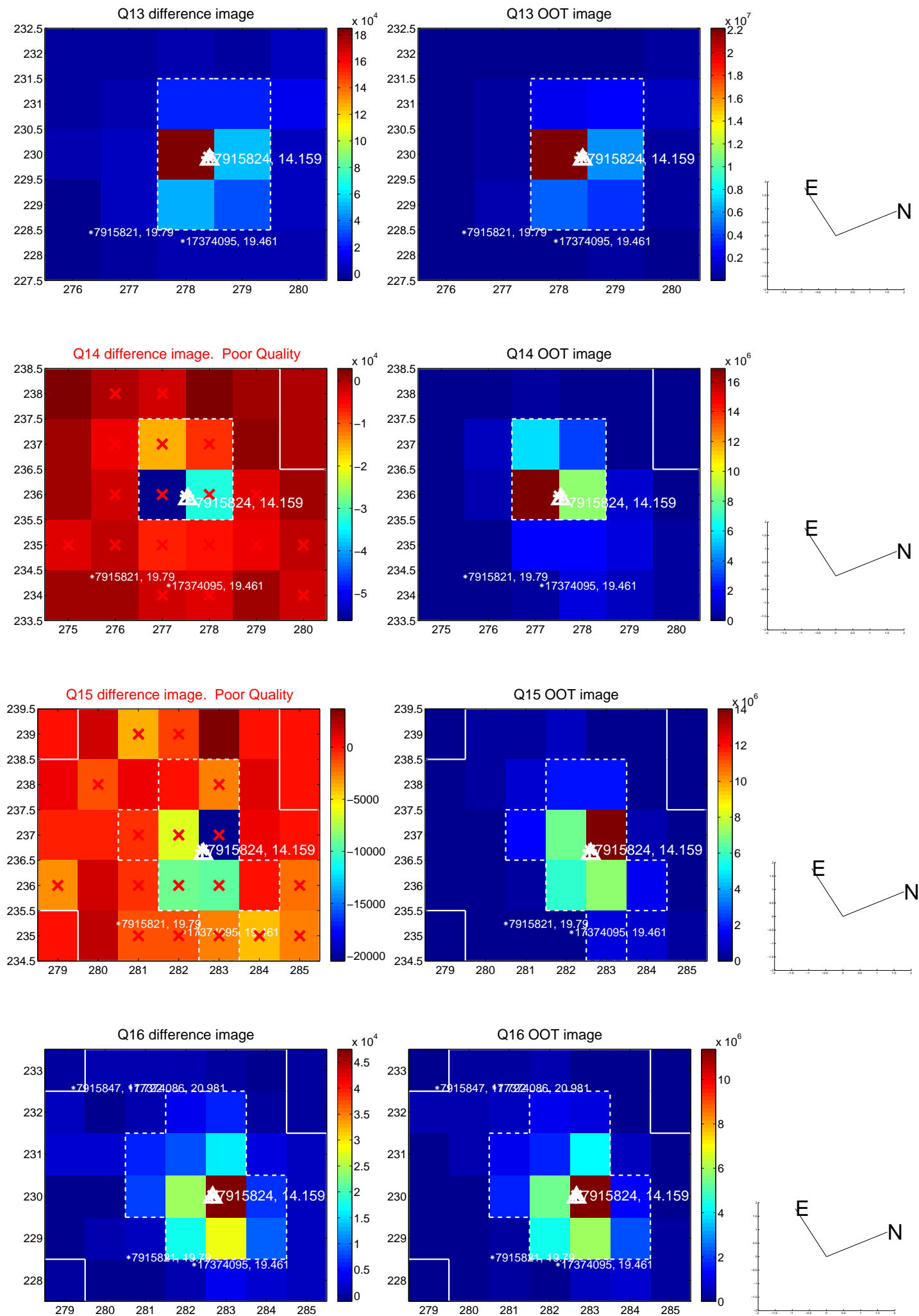
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



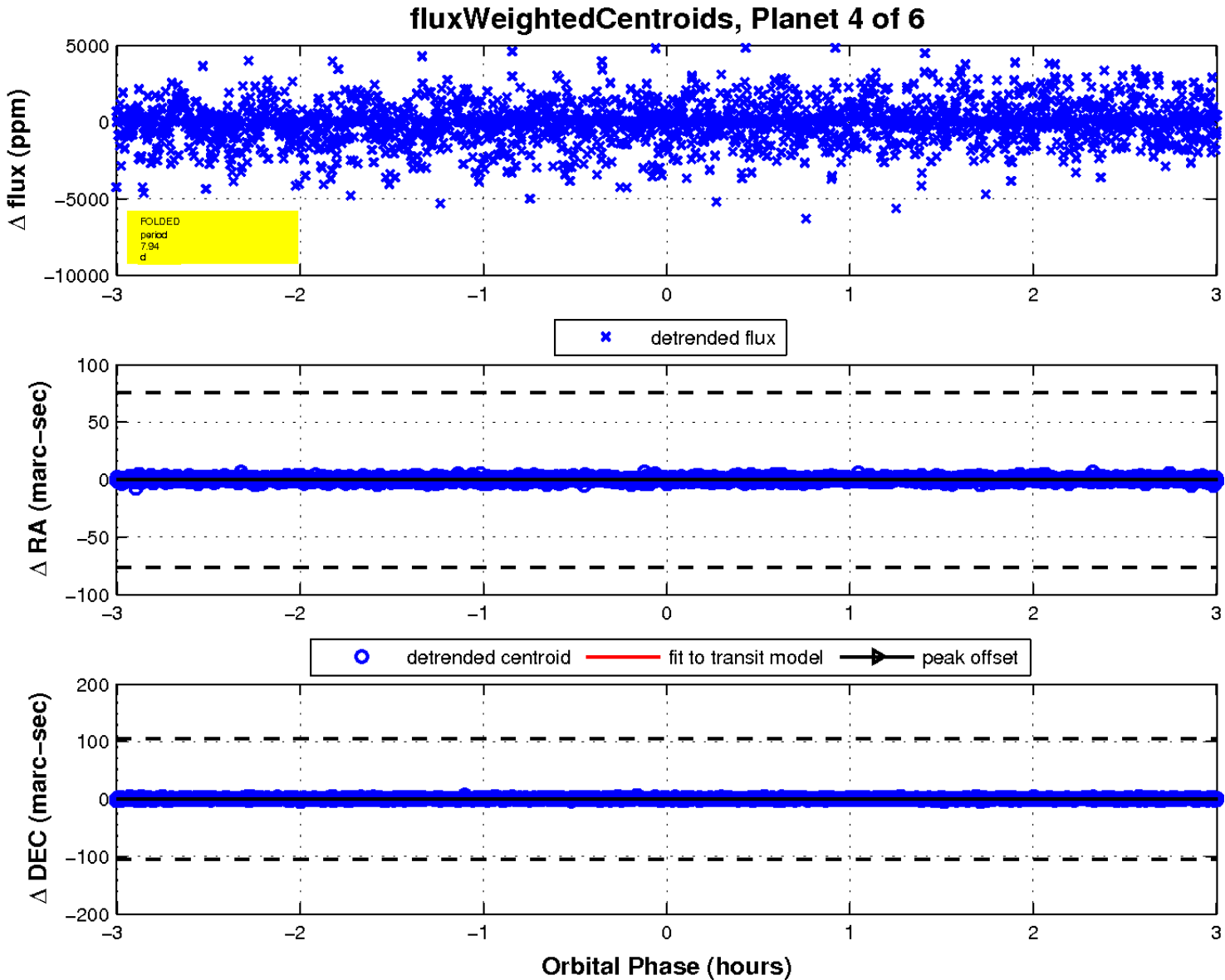
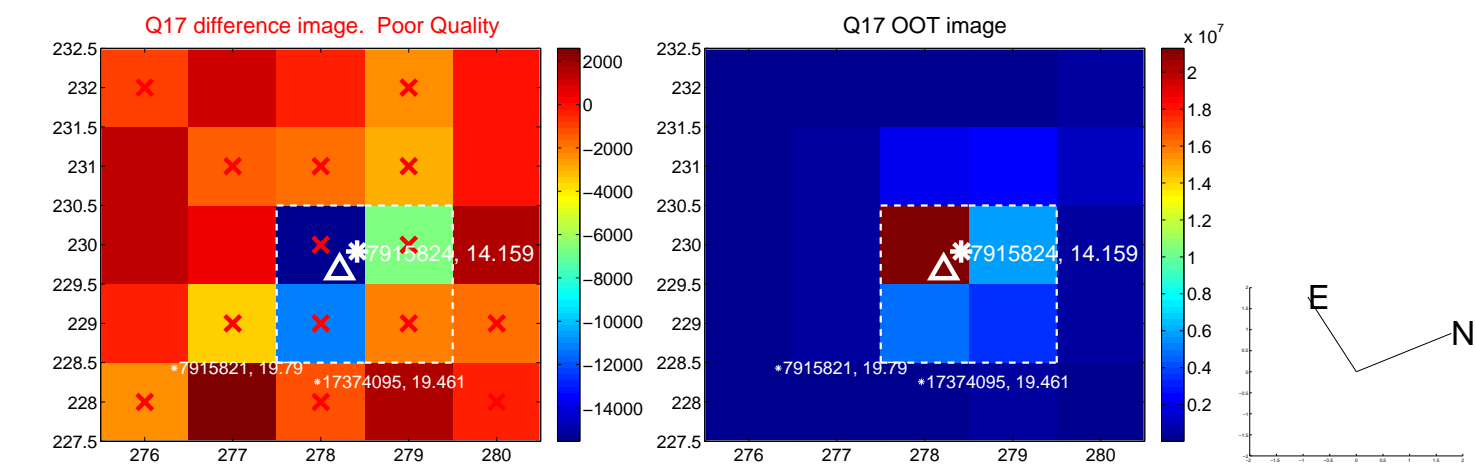
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

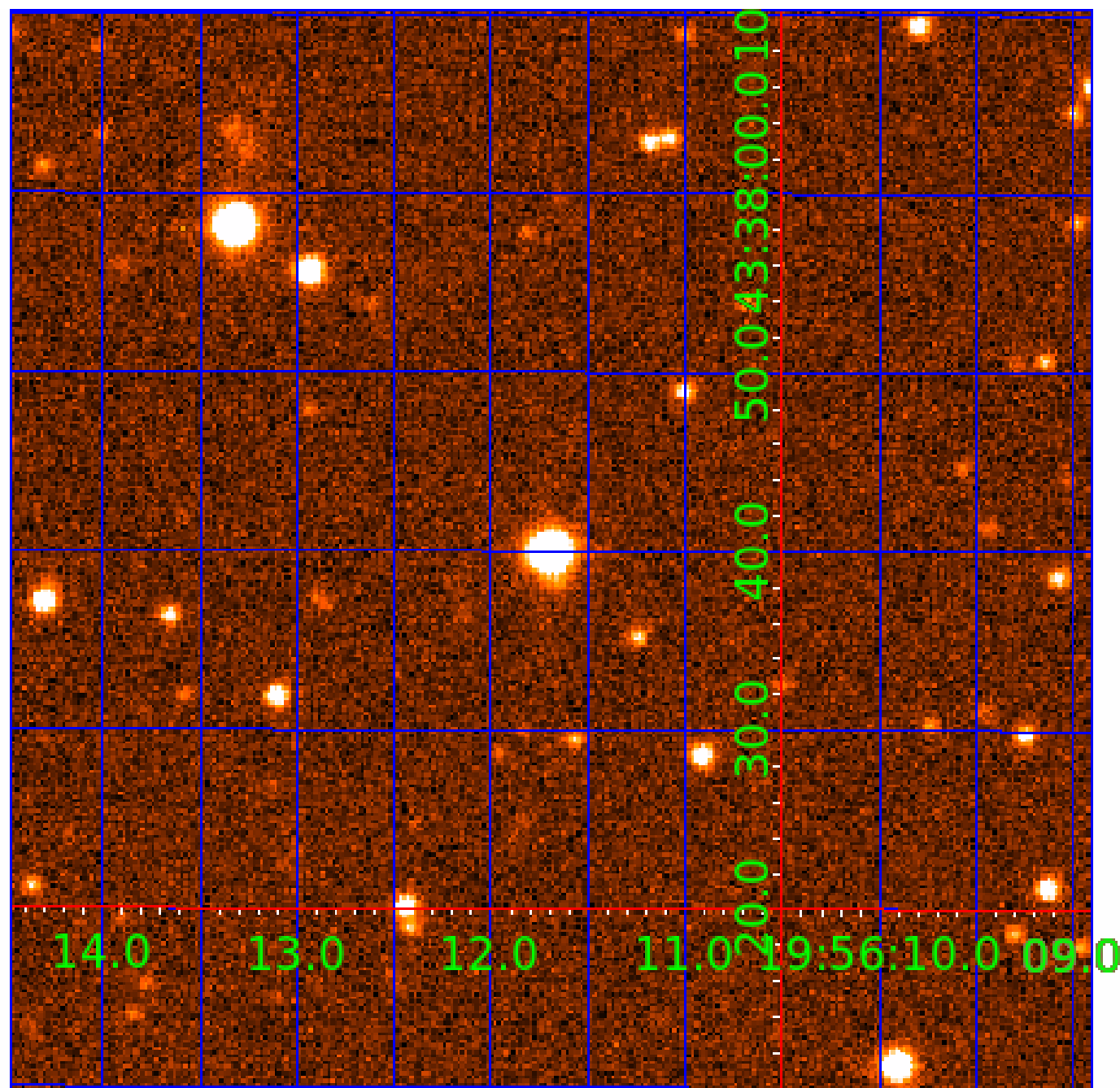


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007915824

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})
007915824-01	OBS	No	0.730035	131.949210	76.1	5.355	8.1	5.7	0.89	6230	0.91	4487.09
007915824-02	OBS	No	8.781913	133.846237	2504.7	0.836	10.5	7.8	0.89	6230	4.58	162.79
007915824-03	OBS	No	57.230318	177.873764	4620.7	5.298	11.6	10.8	0.89	6230	10.70	13.37
007915824-04	OBS	No	7.941824	135.335995	1018.3	1.500	11.2	-1.0	0.89	6230	2.87	186.15
007915824-06	OBS	No	9.341086	132.542699	675.5	0.571	8.0	1.6	0.89	6230	2.44	149.93

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007915824-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV
007915824-02	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
007915824-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES
007915824-04	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_NOFITS
007915824-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—HALO_GHOST

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

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

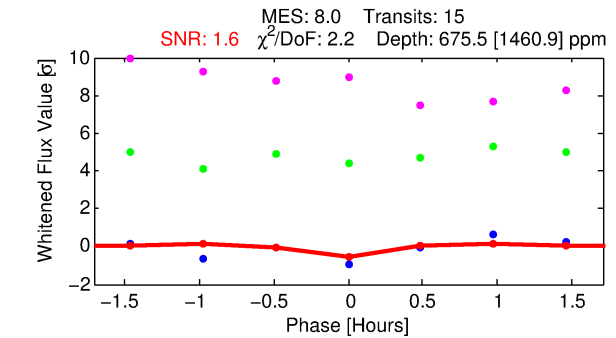
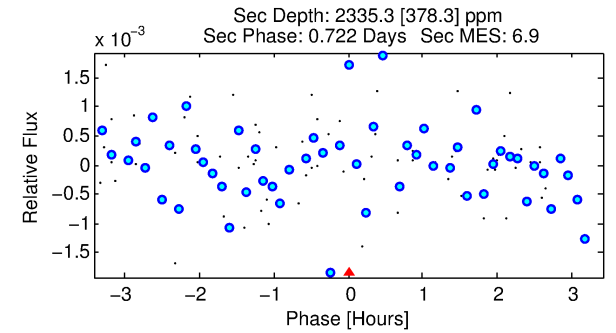
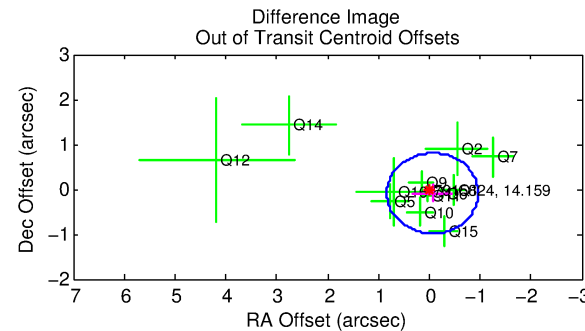
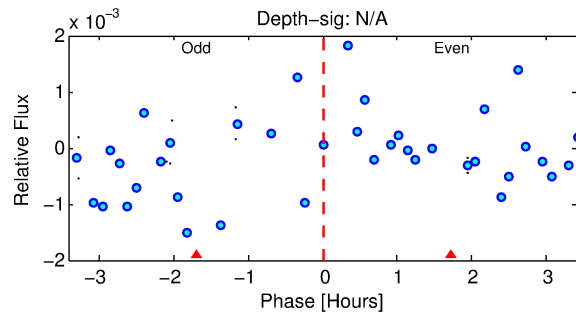
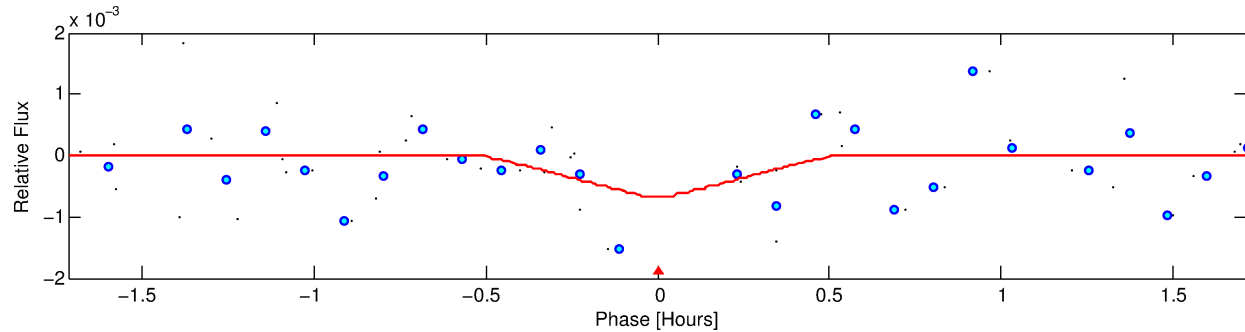
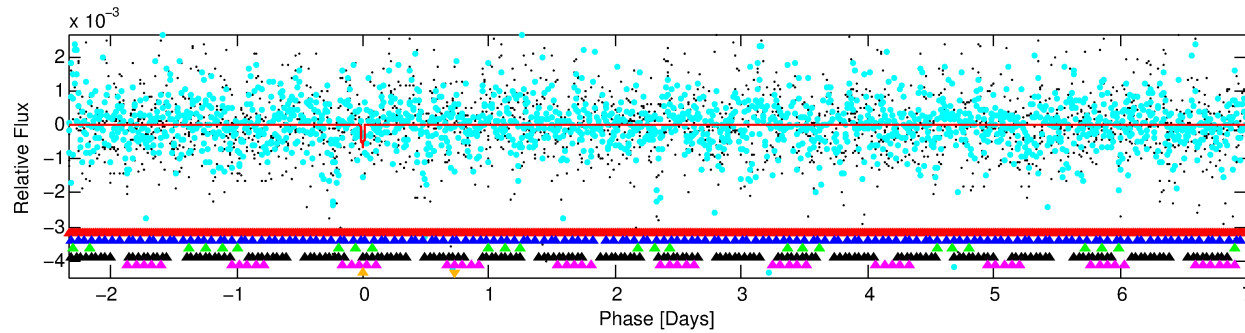
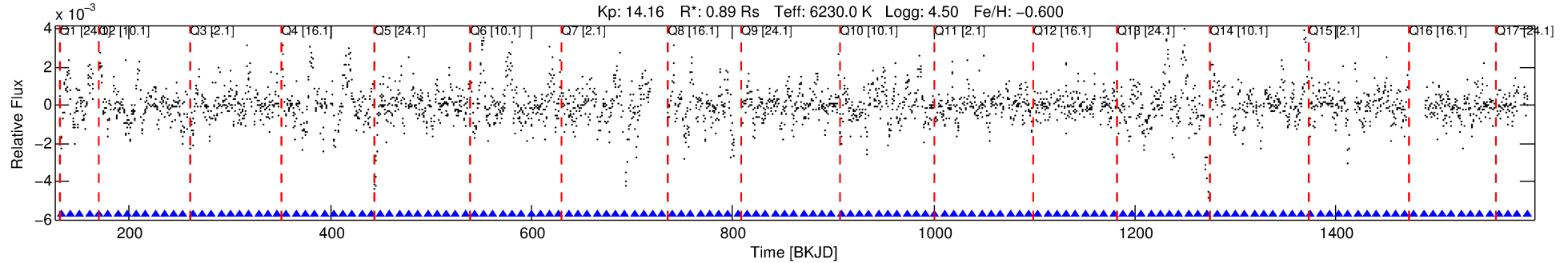
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007915824-06

No Significant Match Found

DV One-Page Summary

KIC: 7915824 Candidate: 6 of 6 Period: 9.341 d



DV Fit Results:

Period = 9.34109 [0.00028] d
Epoch = 132.5427 [0.0179] BKJD
Rp/R* = 0.0251 [0.1219]
a/R* = 118.95 [3405.73]
b = 0.38 [63.30]
Seff = 149.93 [56.61]
Teq = 892 [84] K
Rp = 2.44 [11.88] Re
a = 0.0846 [0.0204] AU
Ag = 1545.29 [15034.35] [0.10σ]
Teffp = 8650 [21026] K [0.37σ]

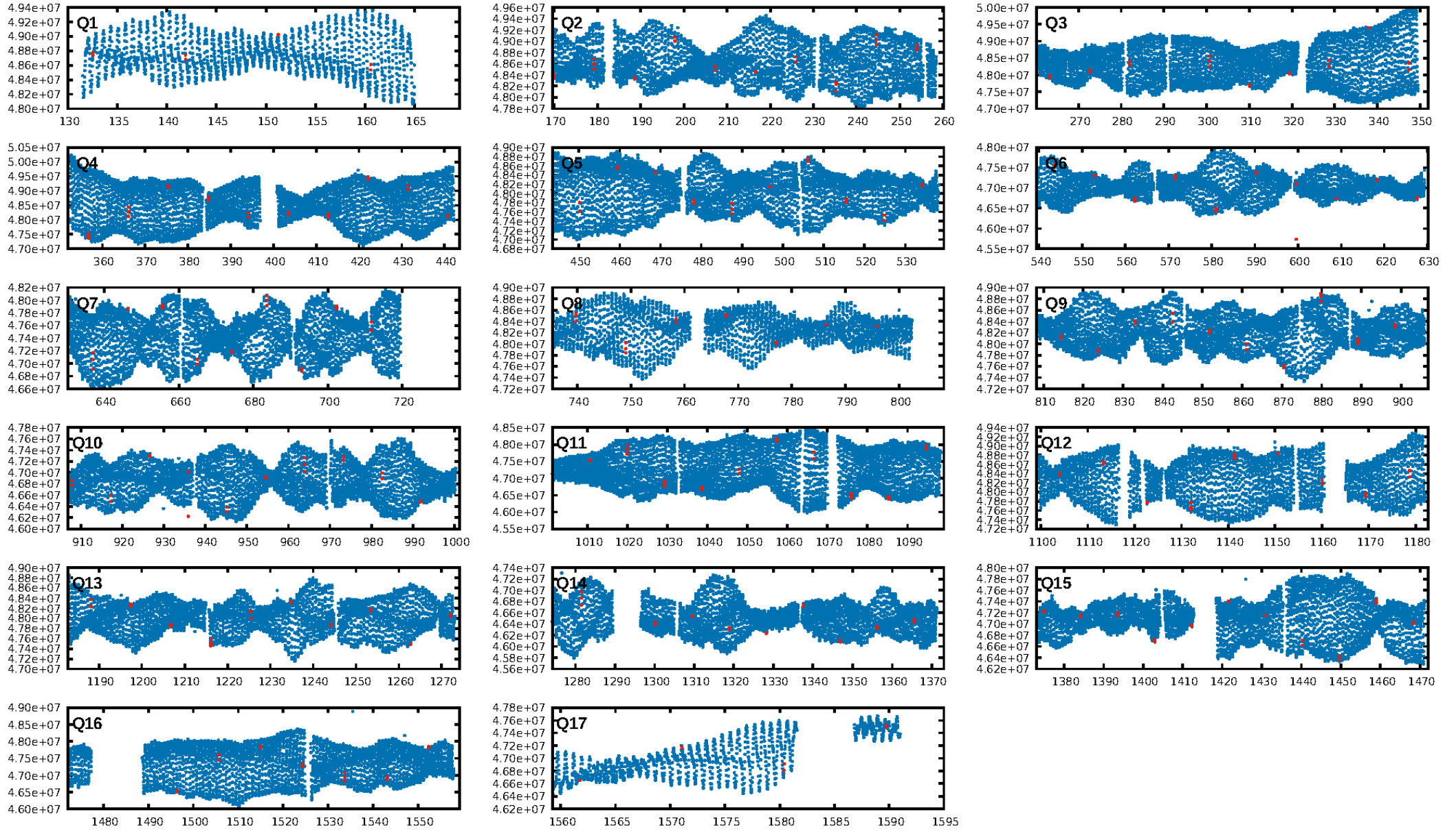
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [13.26σ]
LongPeriod-sig: 100.0% [200.63σ]
ModelChiSquare2-sig: 21.4%
ModelChiSquareGof-sig: 89.4%
Bootstrap-pfa: 1.13e-08
RollingBand-fgt: 1.00 [14/14]
GhostDiagnostic-chr: 0.07754
Centroid-sig: 3.7%
Centroid-so: 0.854 arcsec [1.66σ]
OotOffset-rm: 0.111 arcsec [0.37σ]
KicOffset-rm: 0.136 arcsec [0.37σ]
OotOffset-st: 4/3/3/3 [13]
KicOffset-st: 4/3/3/3 [13]
DiffImageQuality-fgm: 0.31 [4/13]
DiffImageOverlap-fno: 0.21 [3/14]

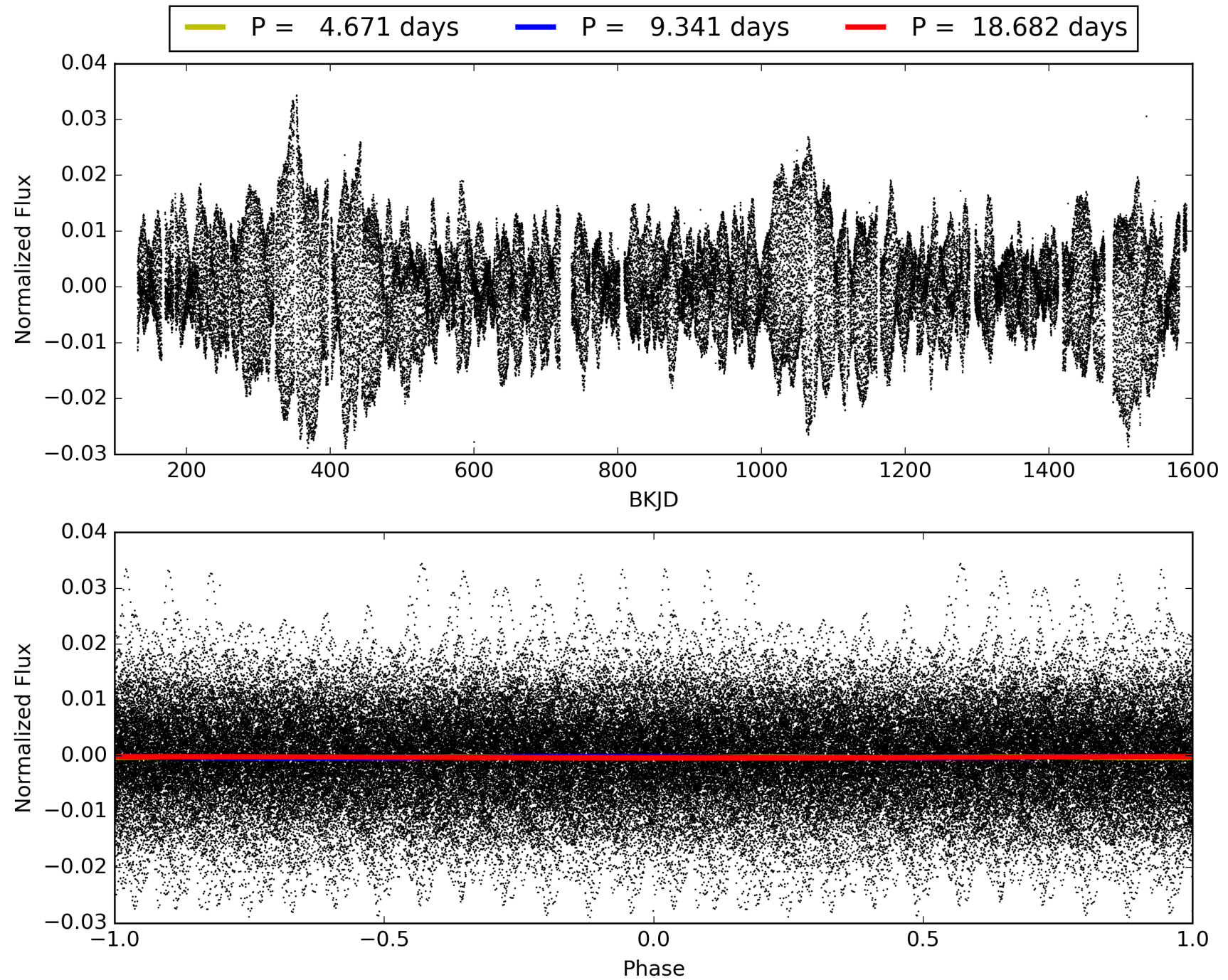
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 22:54:53 Z

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

TCE 007915824-06, PDC Light Curves

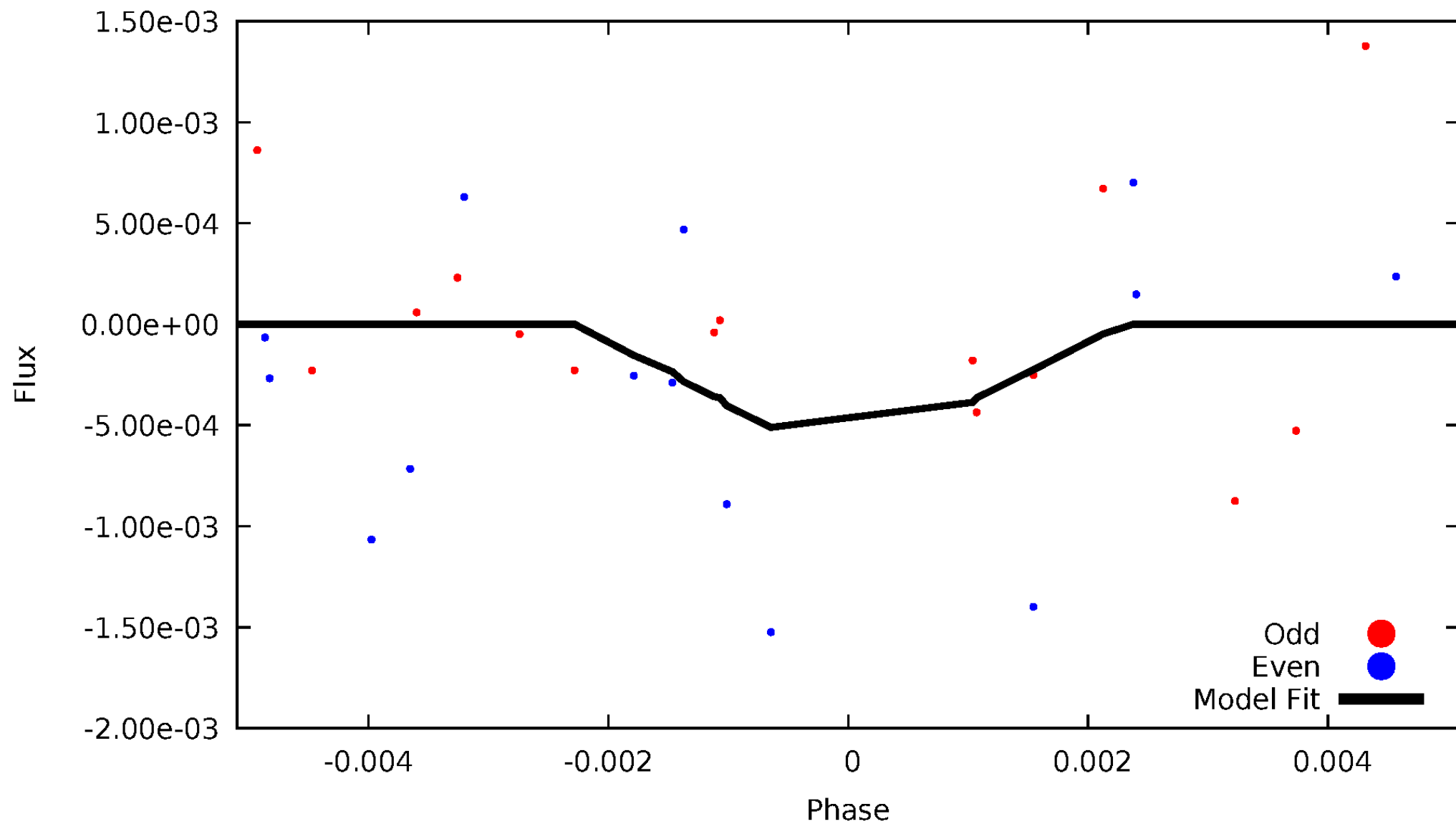


TCE 007915824-06



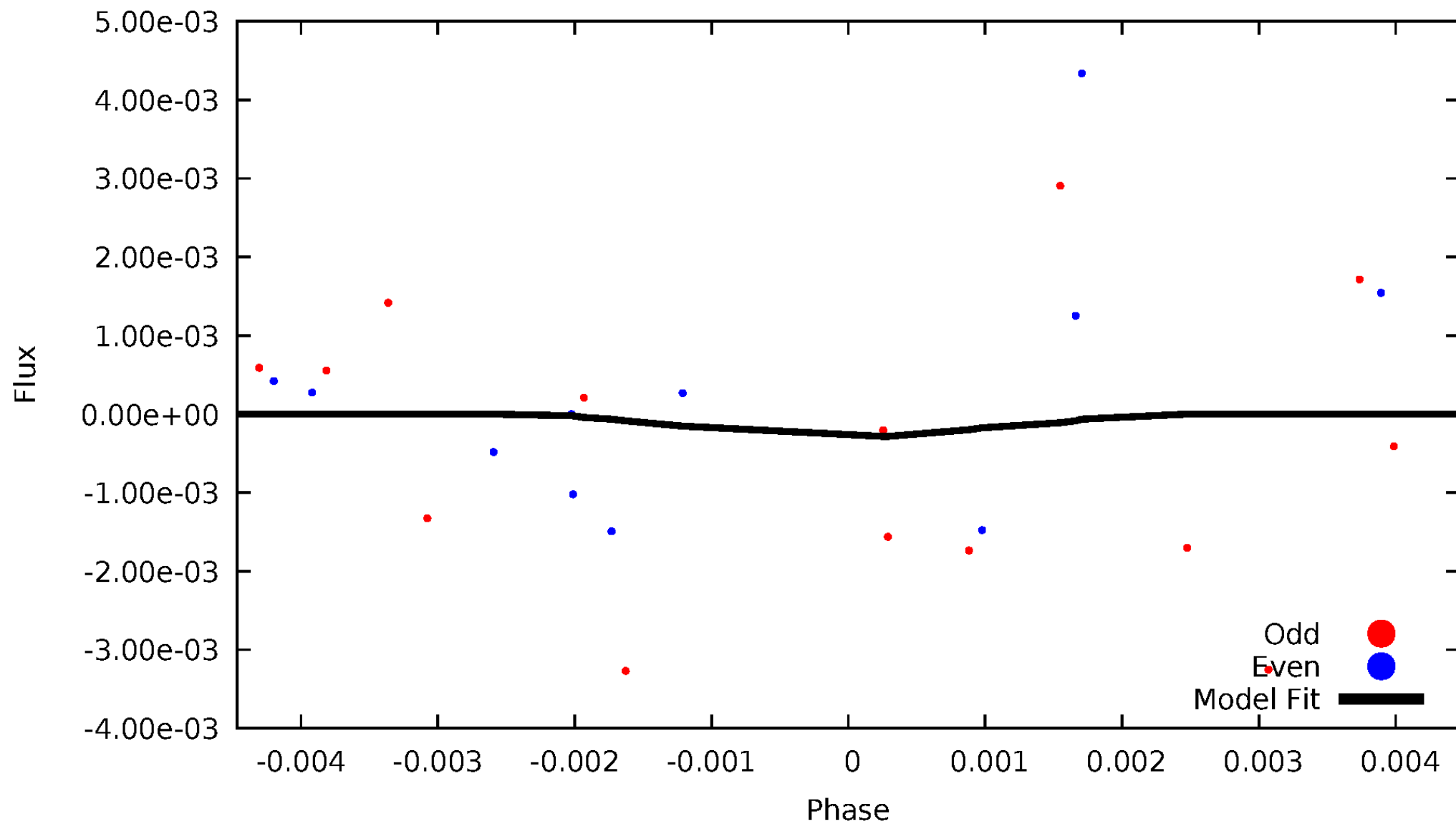
DV Odd/Even

TCE 007915824-06



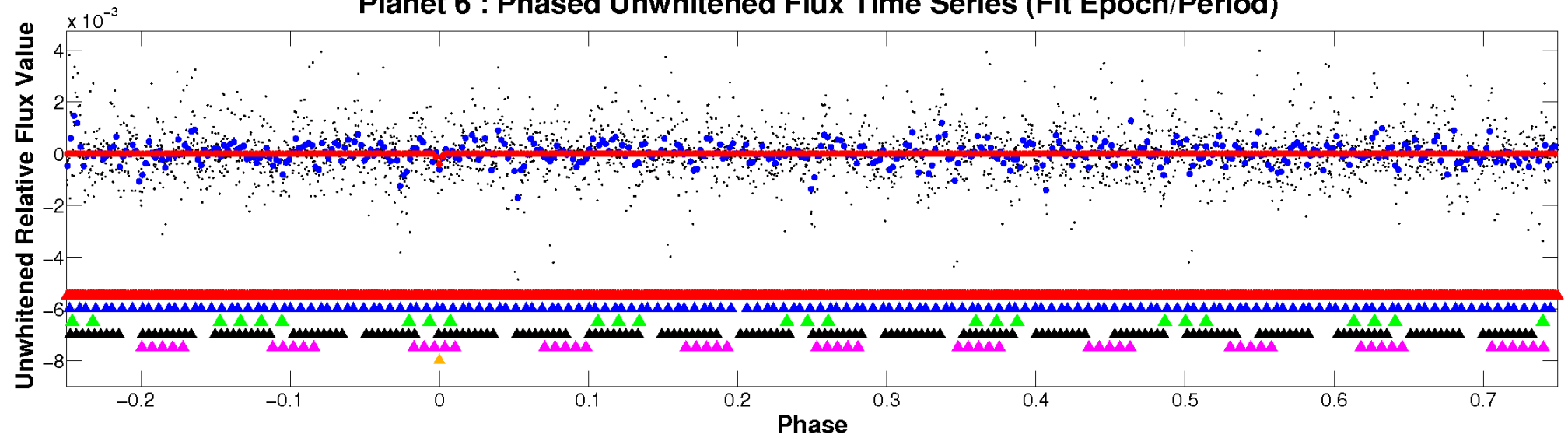
ALT Odd/Even

TCE 007915824-06

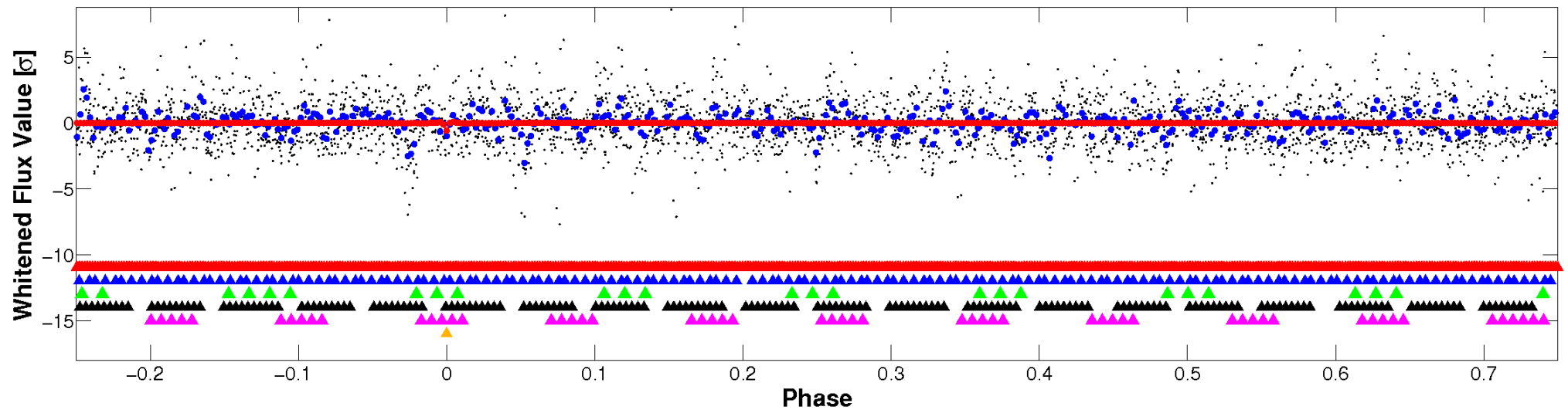


Non-Whitened Vs. Whitened Light Curve

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

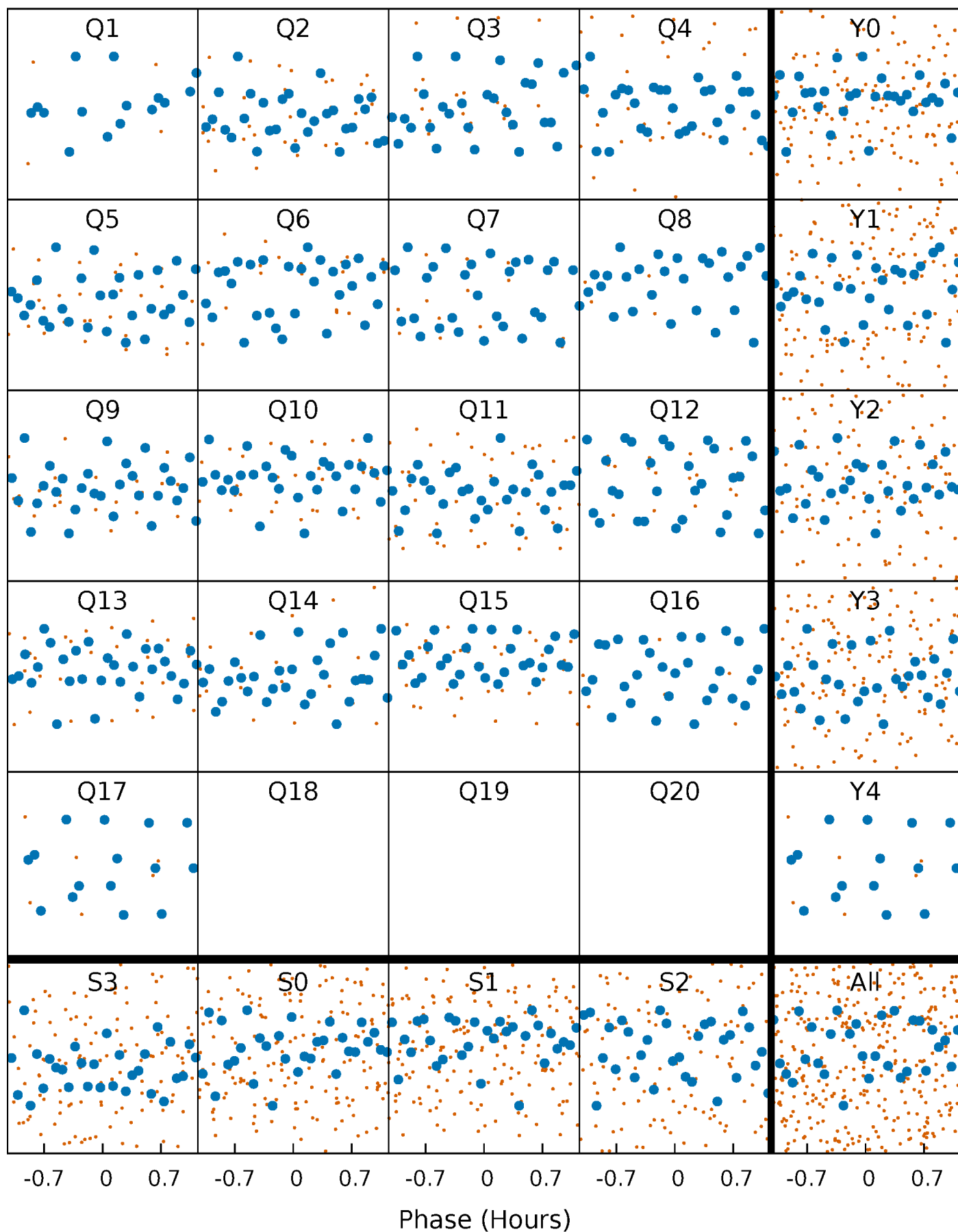


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



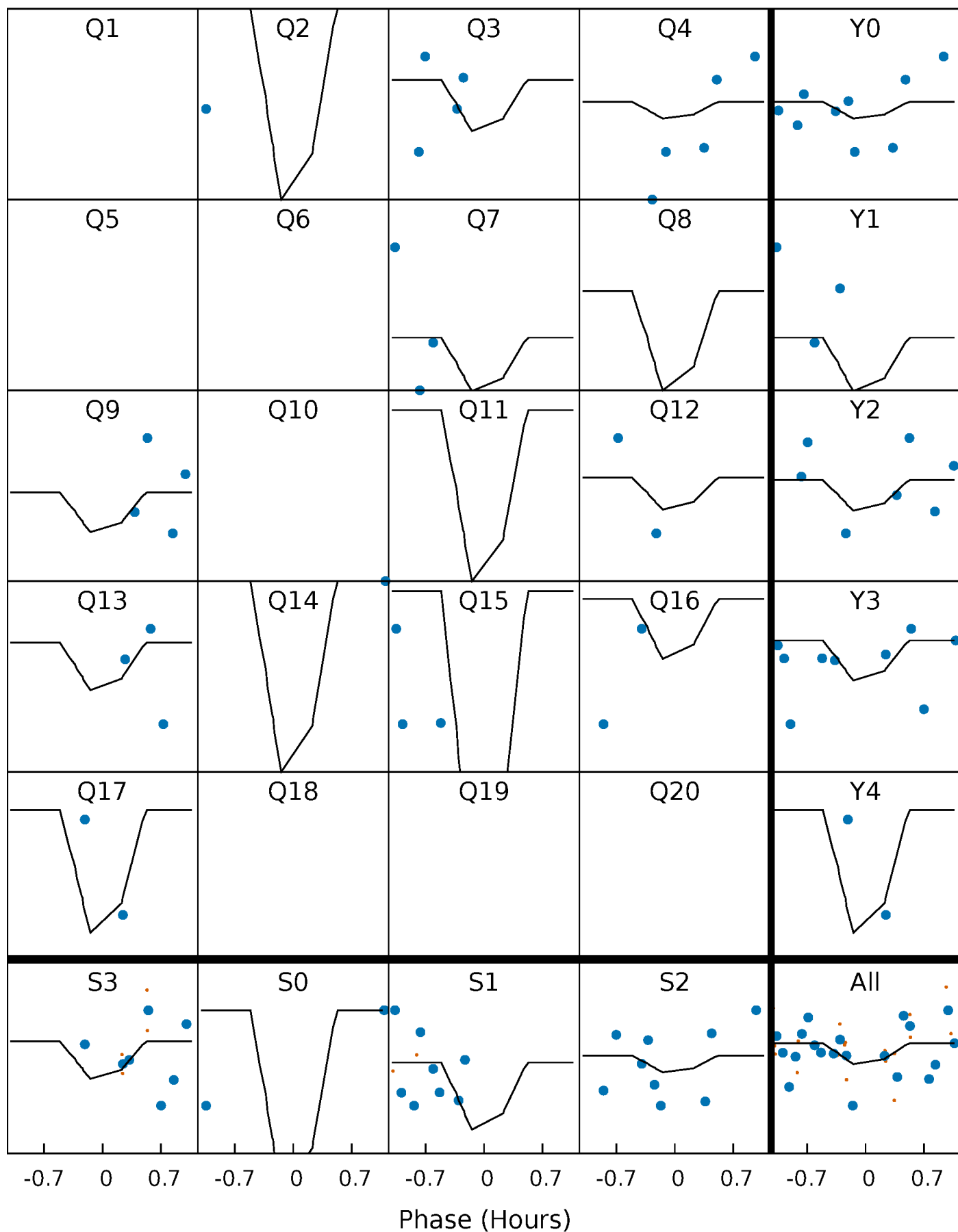
PDC Quarter-Phased Transit Curves

TCE 007915824-06 P= 9.341086 Days $T_0=132.542699$ (BKJD)



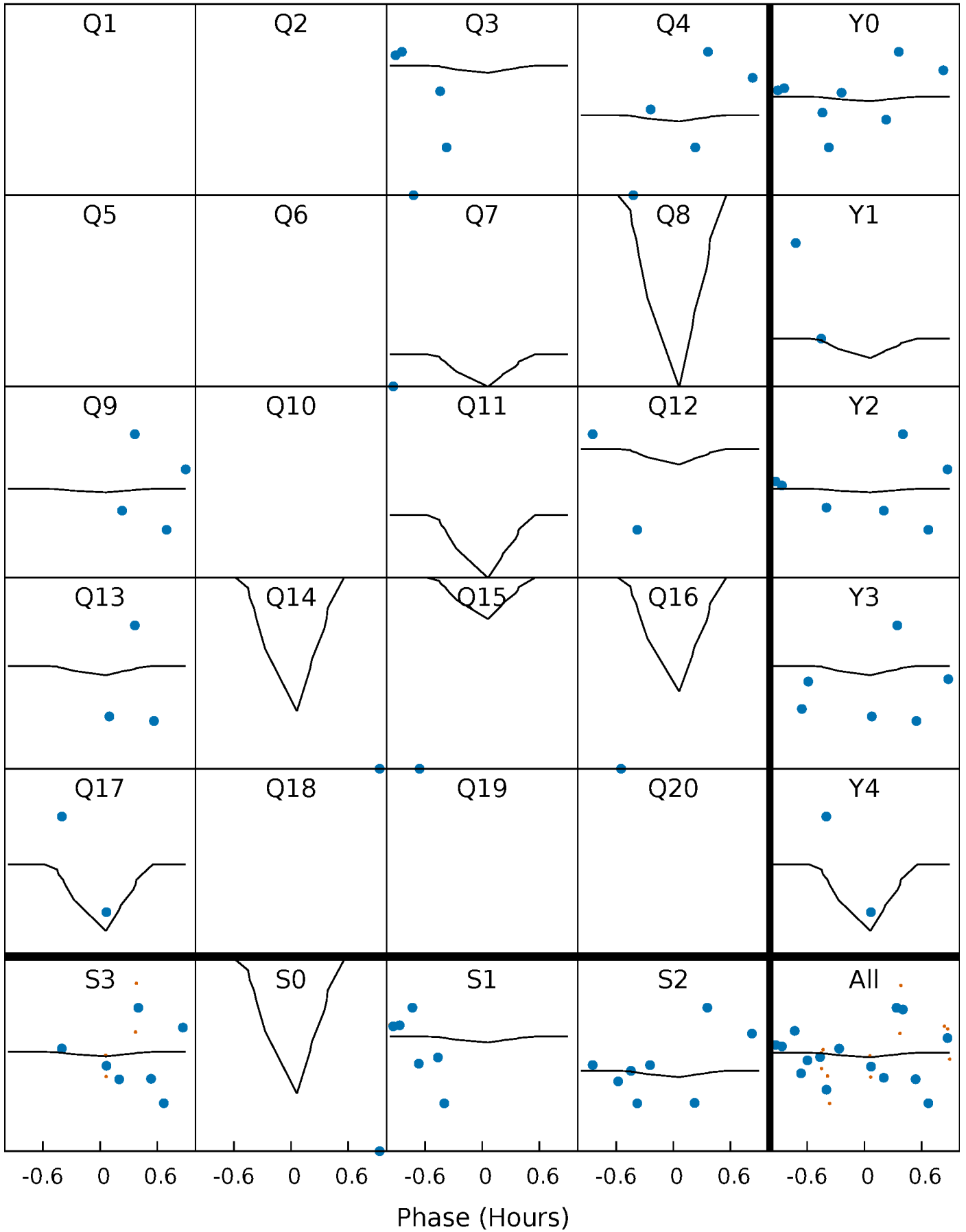
DV Quarter-Phased Transit Curves

TCE 007915824-06 P= 9.341086 Days $T_0=132.542699$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

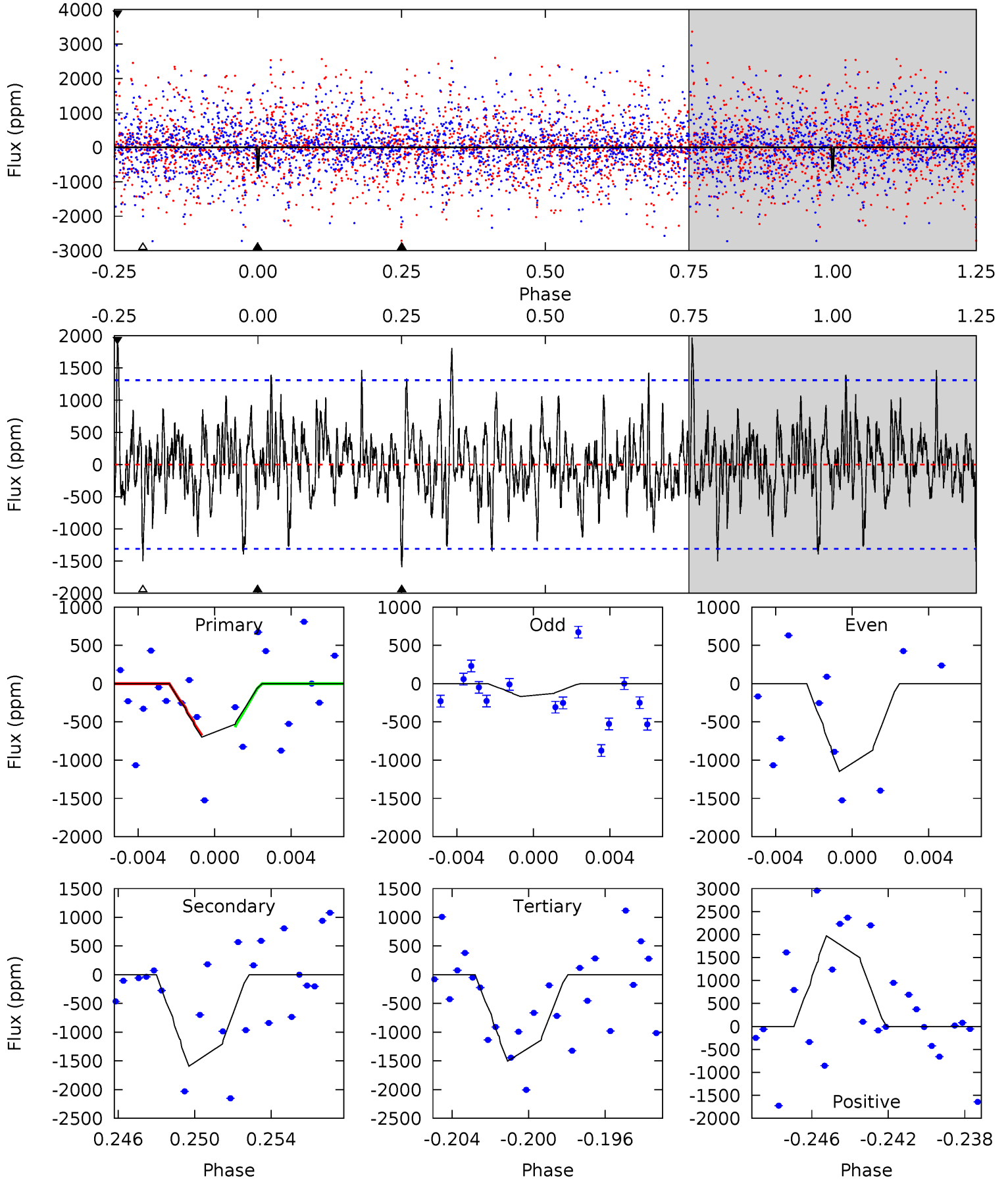
TCE 007915824-06 P= 9.341104 Days $T_0=132.547500$ (BKJD)



DV Model-Shift Uniqueness Test

007915824-06, P = 9.341086 Days, E = 123.201613 Days

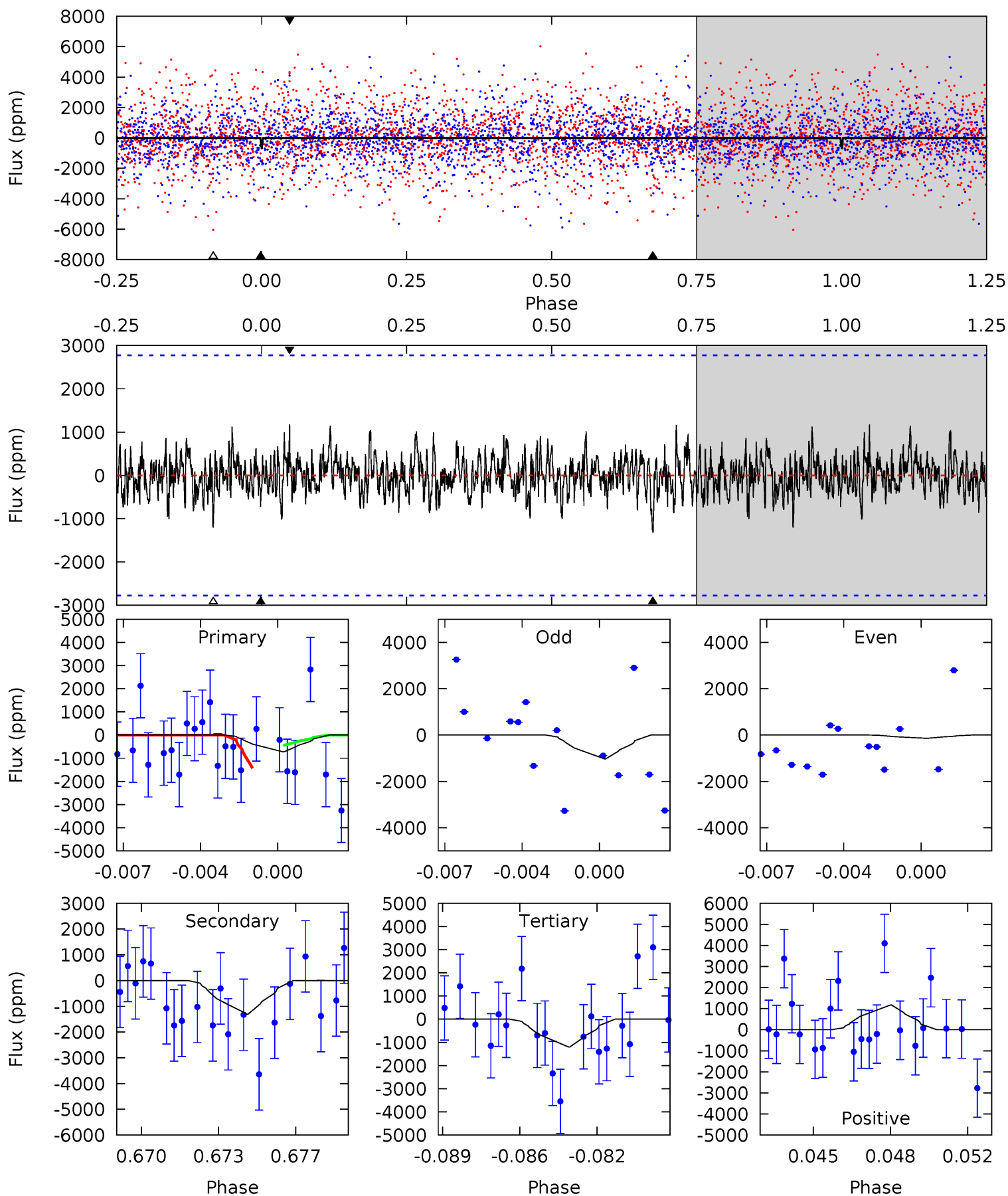
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.78	6.33	5.98	7.84	5.21	2.89	1.83	-3.19	-5.06	0.36	-1.51	2.13	1.00	0.55	0.22



Alt Model-Shift Uniqueness Test

007915824-06, P = 9.341104 Days, E = 123.206396 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.36	2.46	2.26	2.21	5.21	2.90	0.69	-0.90	-0.85	0.20	0.25	0.82	1.00	0.47	0.95



Stellar Parameters For KIC 007915824

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6230^{+169}_{-206}	$4.504^{+0.065}_{-0.195}$	$-0.600^{+0.300}_{-0.300}$	$0.892^{+0.252}_{-0.084}$	$0.926^{+0.104}_{-0.104}$	$1.838^{+0.478}_{-0.921}$
	+3%/-3%	+1%/-4%	+50%/-50%	+28%/-9%	+11%/-11%	+26%/-50%
Source	PHO1	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 007915824-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1593 ± 252	$8.79^{+9.46}_{-5.99}$	1260^{+82}_{-60}	4398^{+3139}_{-1007}	79^{+717}_{-62}
Alt.	-1309 ± 532	$8.82^{+10.25}_{-5.94}$	1270^{+84}_{-64}	4150^{+2946}_{-950}	58^{+561}_{-46}

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

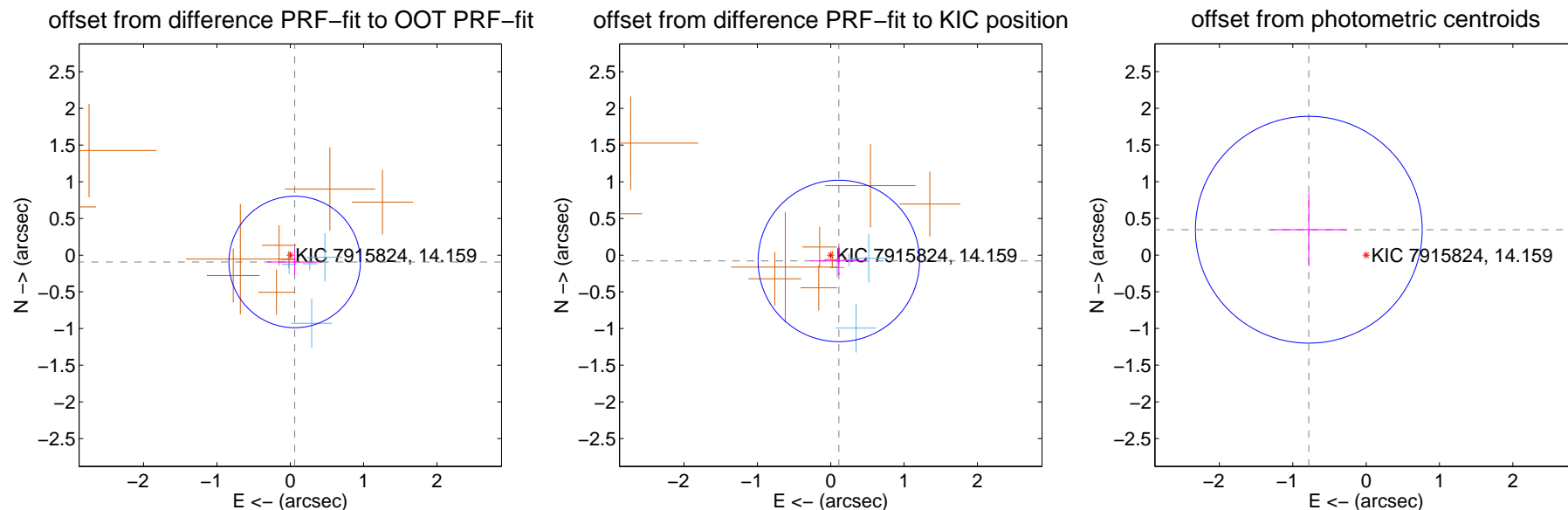
DV Centroid Data

Supplemental centroid analysis for 007915824-06. Kepler magnitude: 14.16. Transit SNR 1.59

There are 4 quarters with good PRF difference image offsets

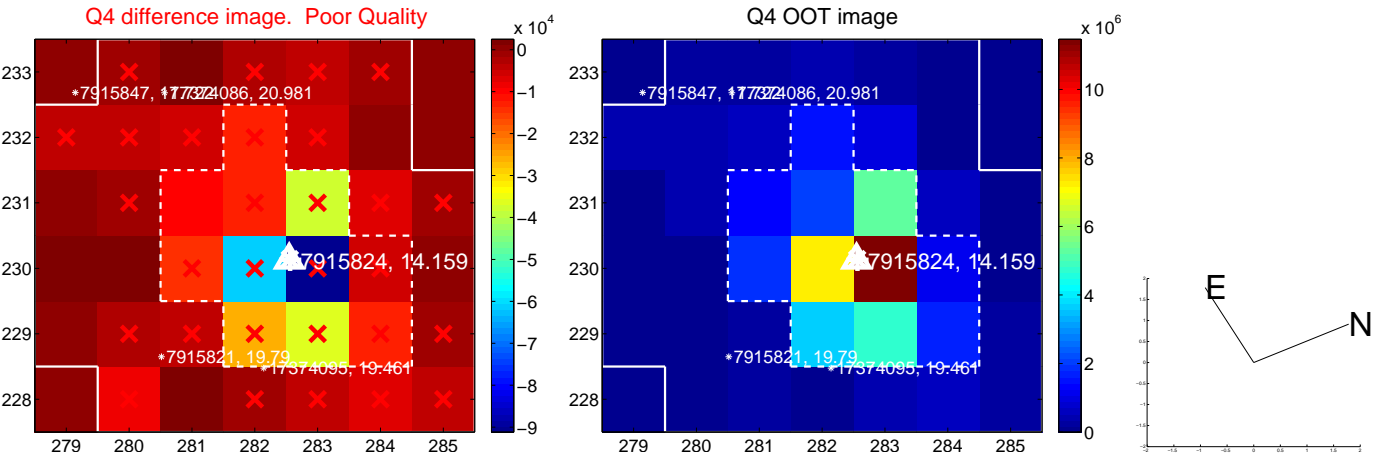
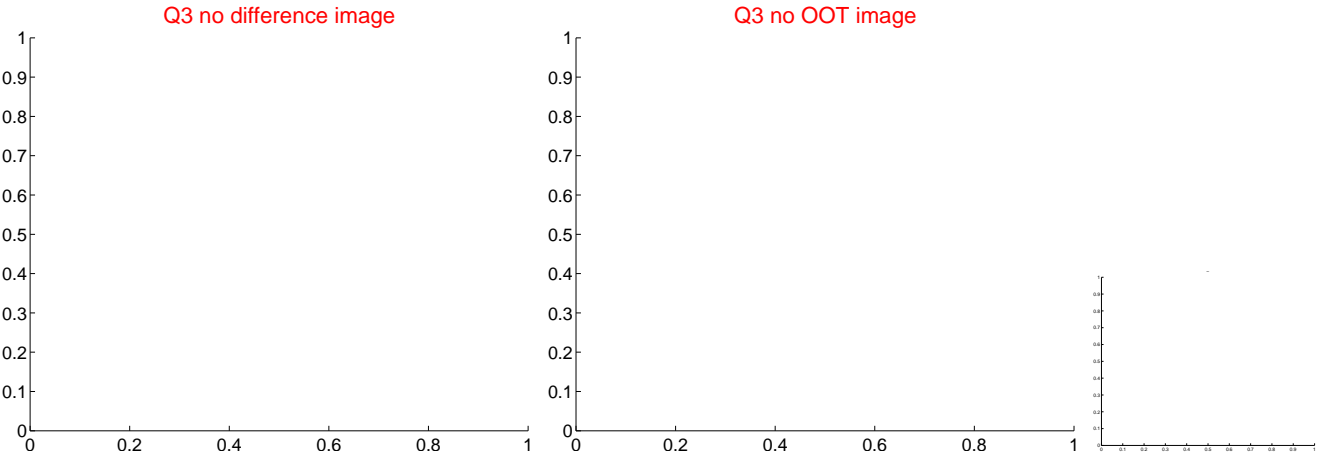
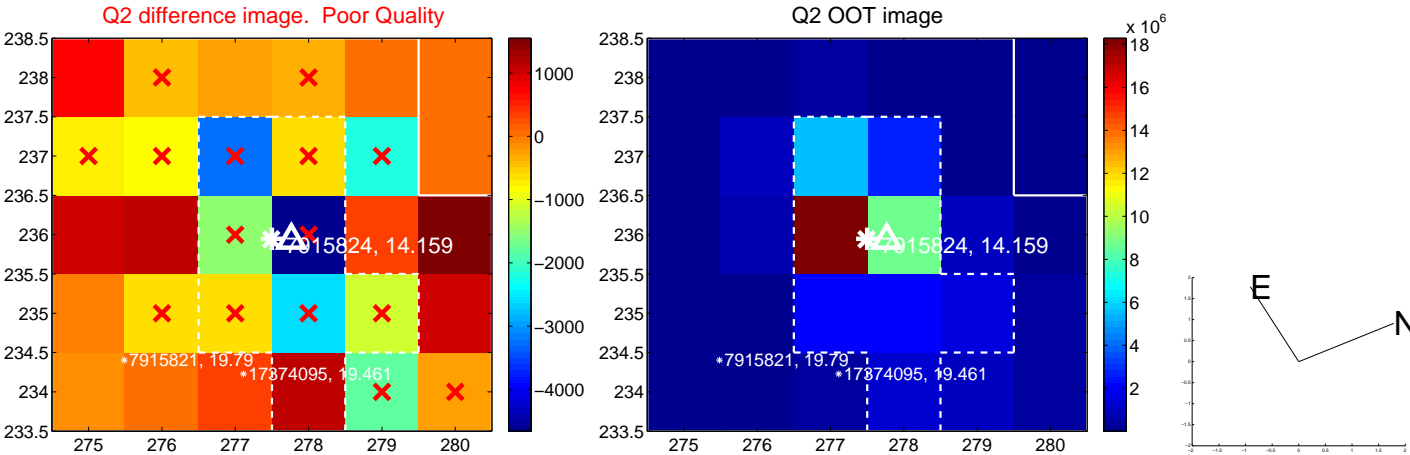
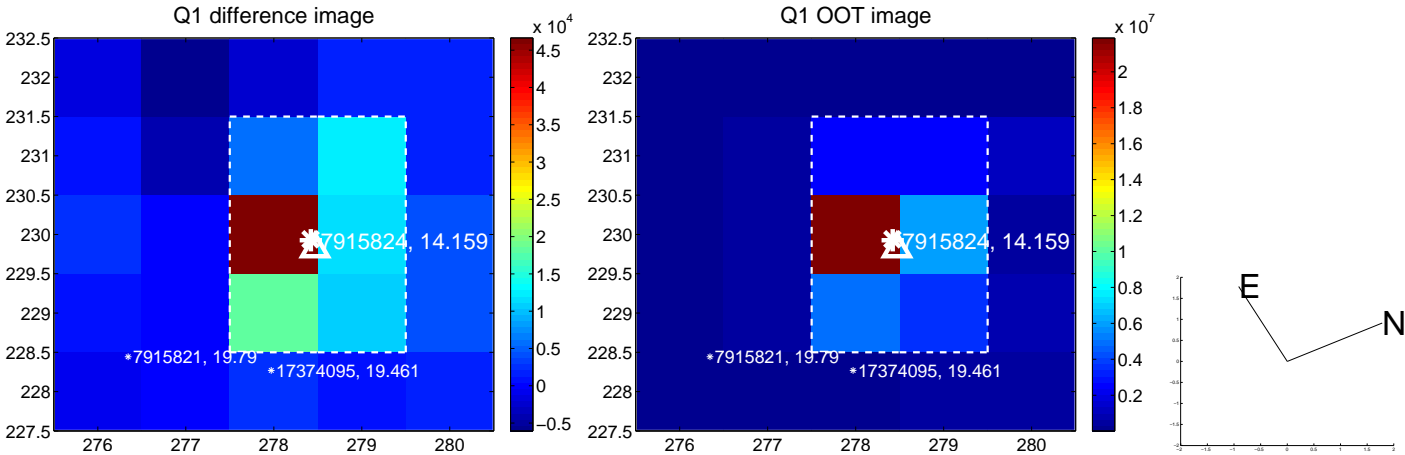
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.111 ± 0.299	0.37	-0.060 ± 0.374	-0.093 ± 0.181
PRF-fit source offset from KIC position	0.136 ± 0.367	0.37	-0.110 ± 0.383	-0.079 ± 0.194
photometric centroid source offset	0.85 ± 0.52	1.66	0.78 ± 0.52	0.35 ± 0.49

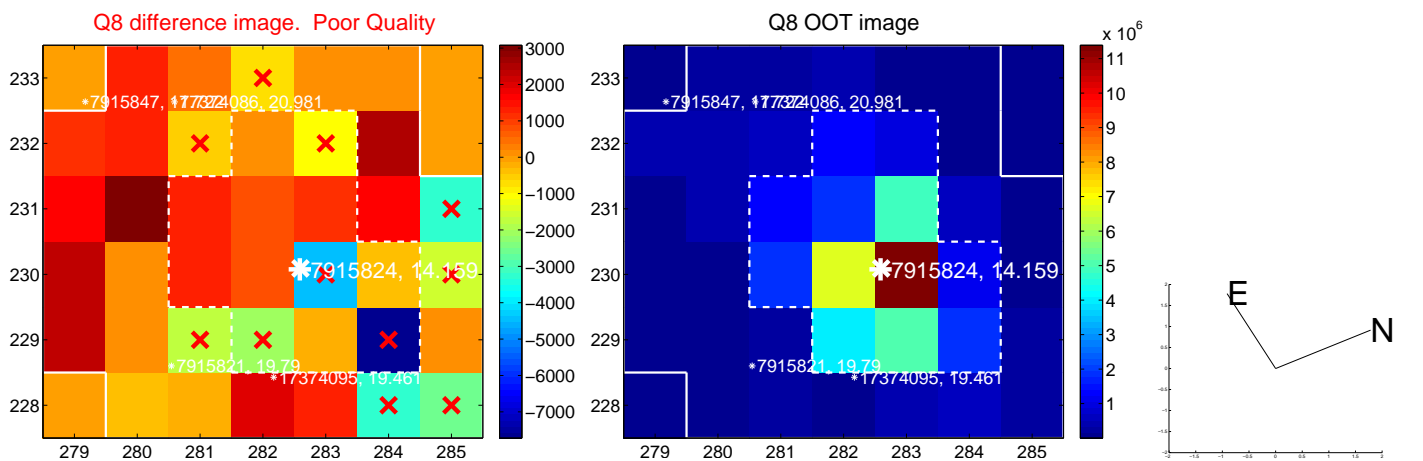
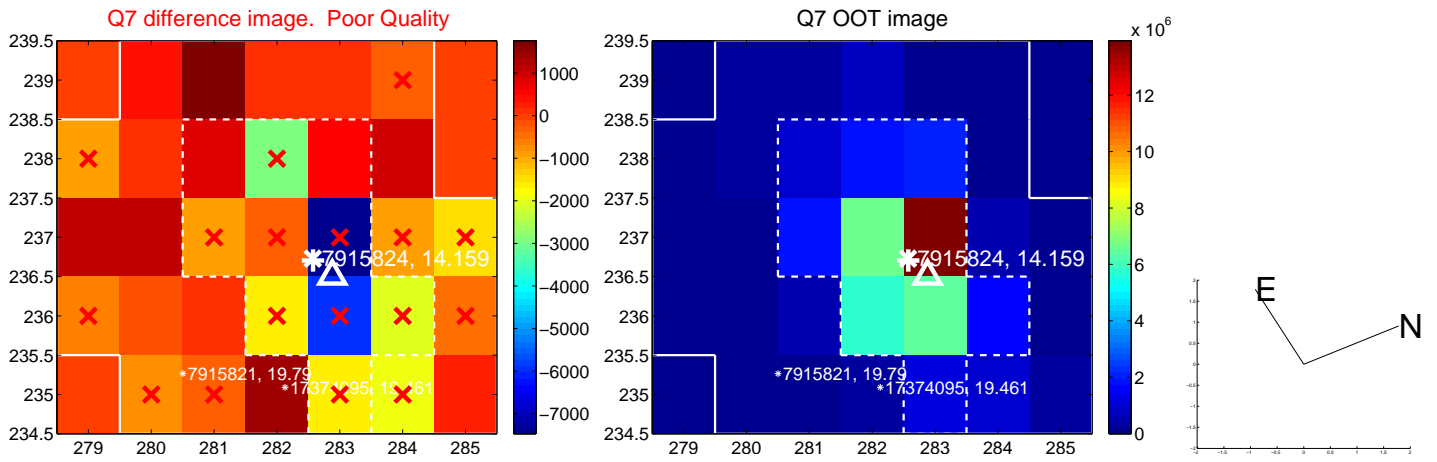
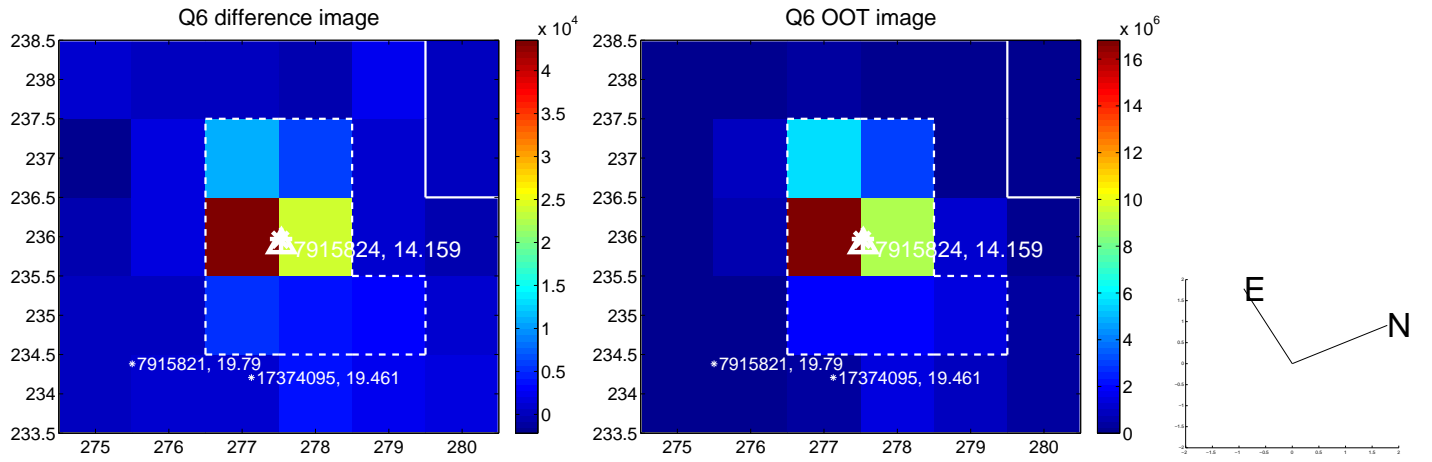
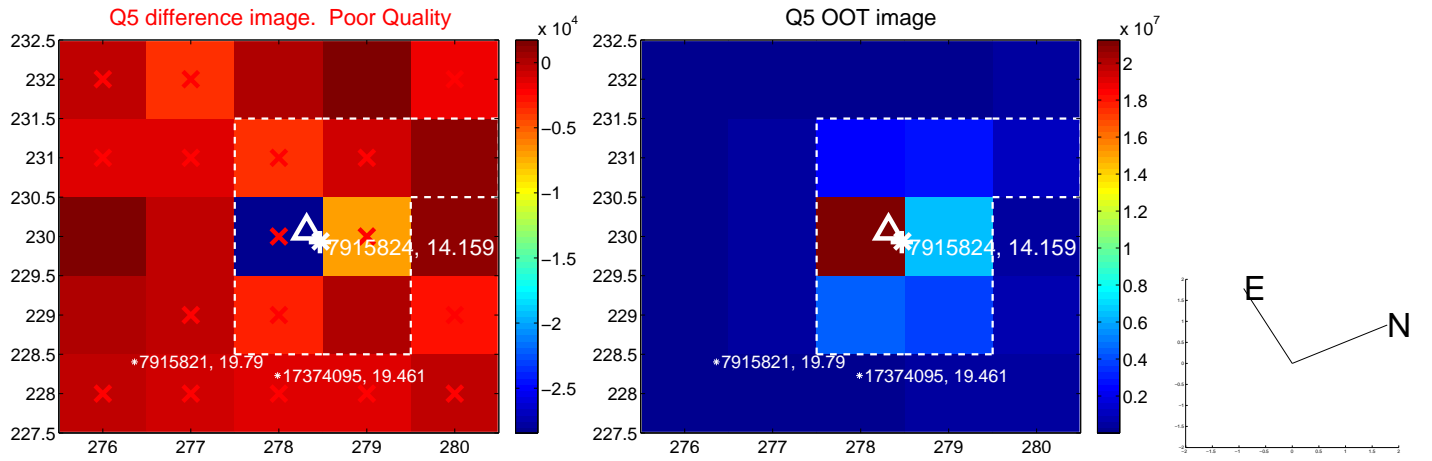


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

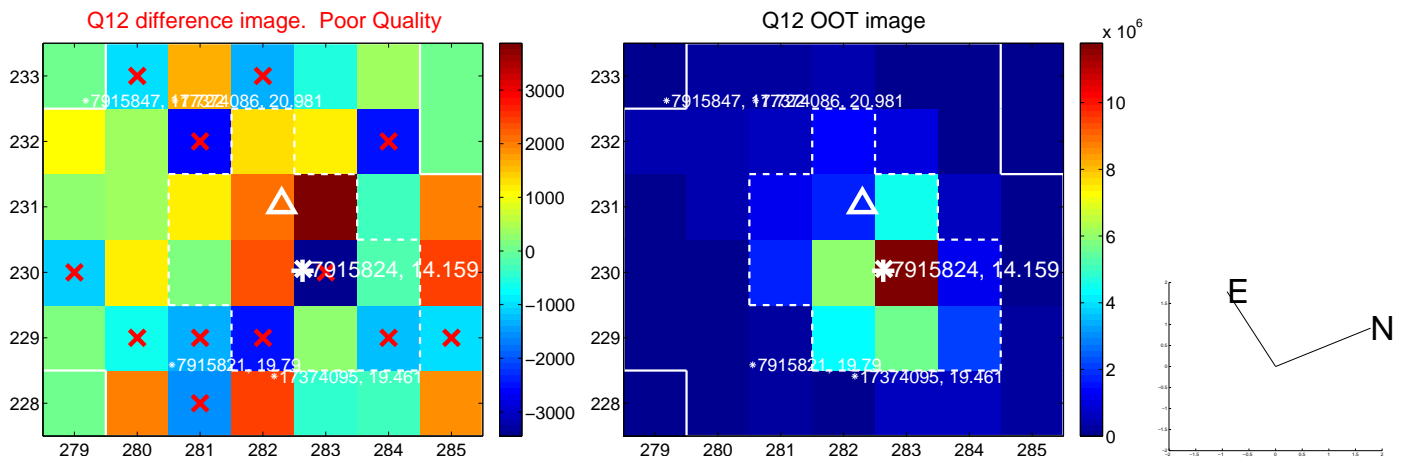
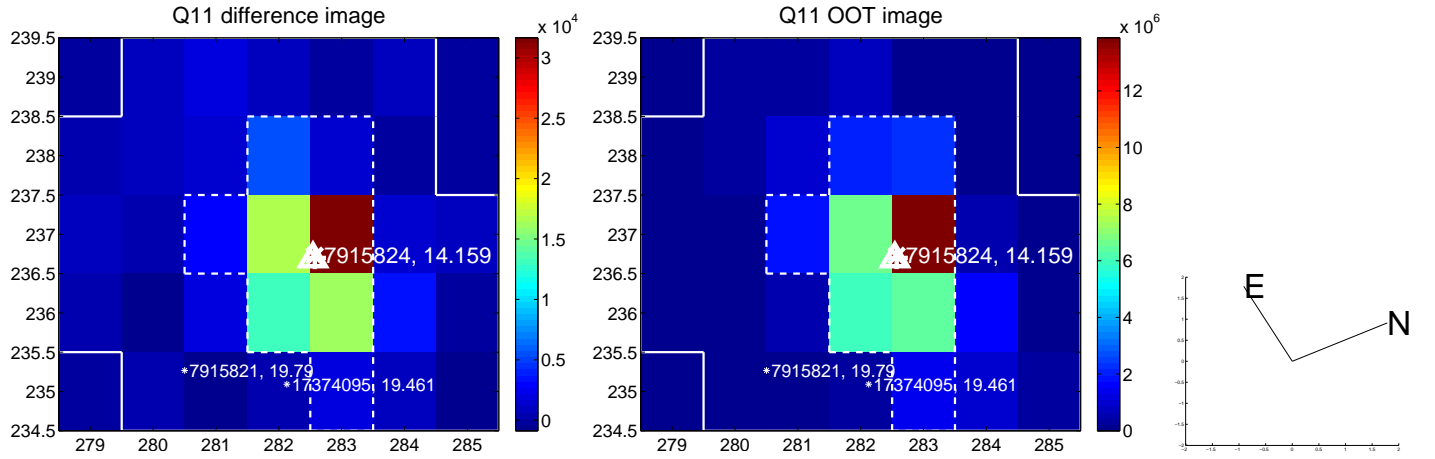
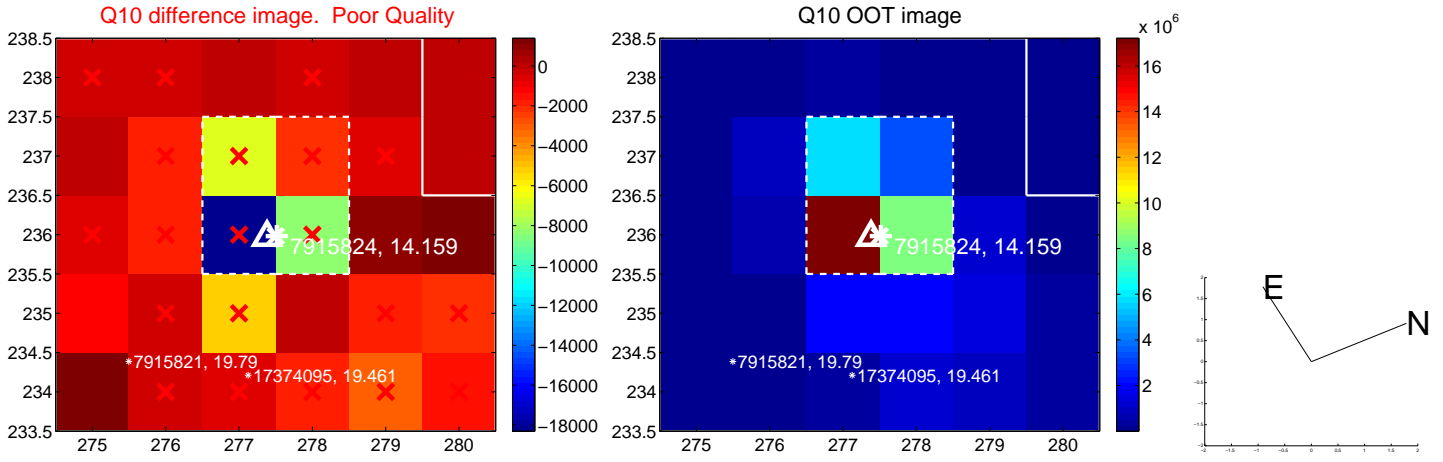
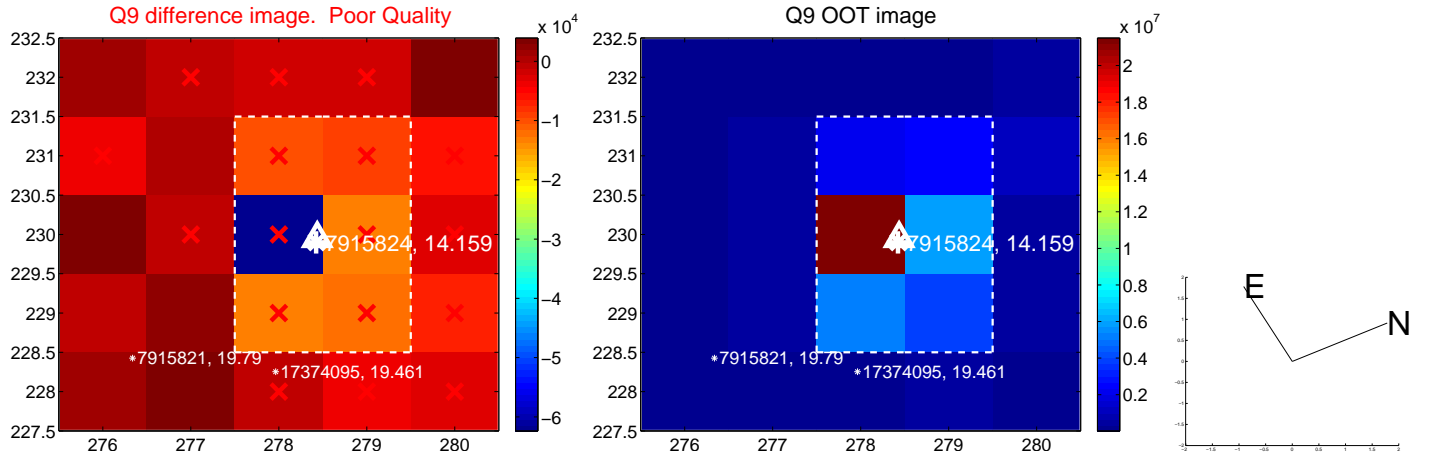
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



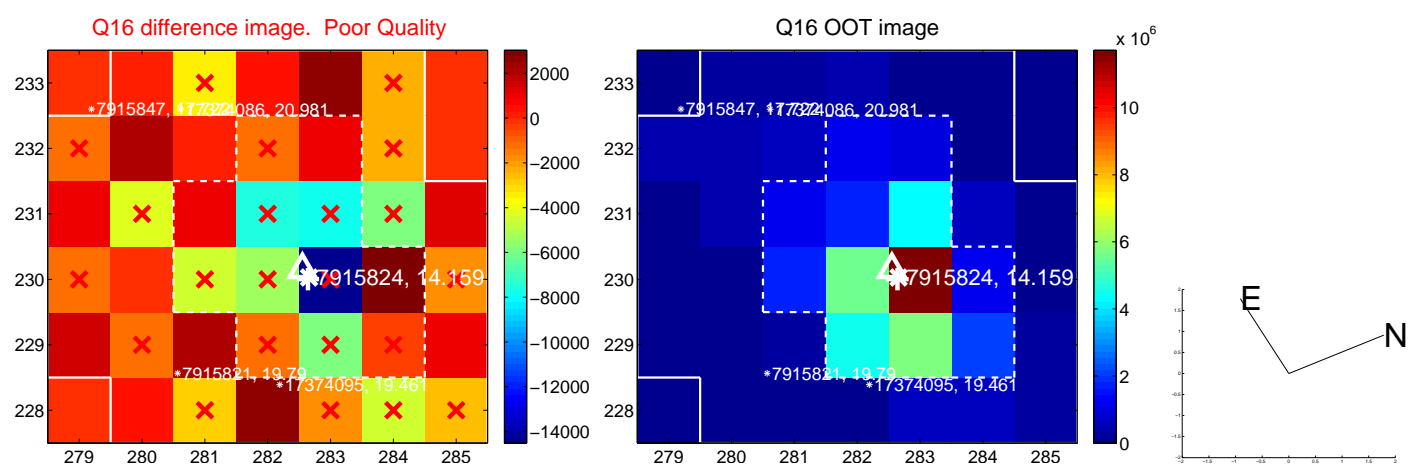
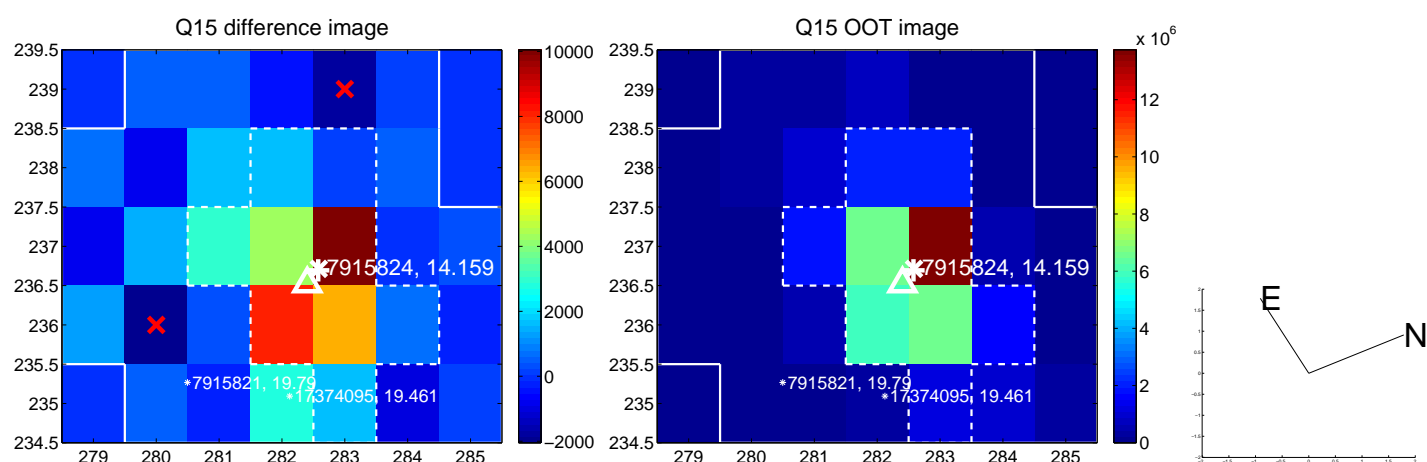
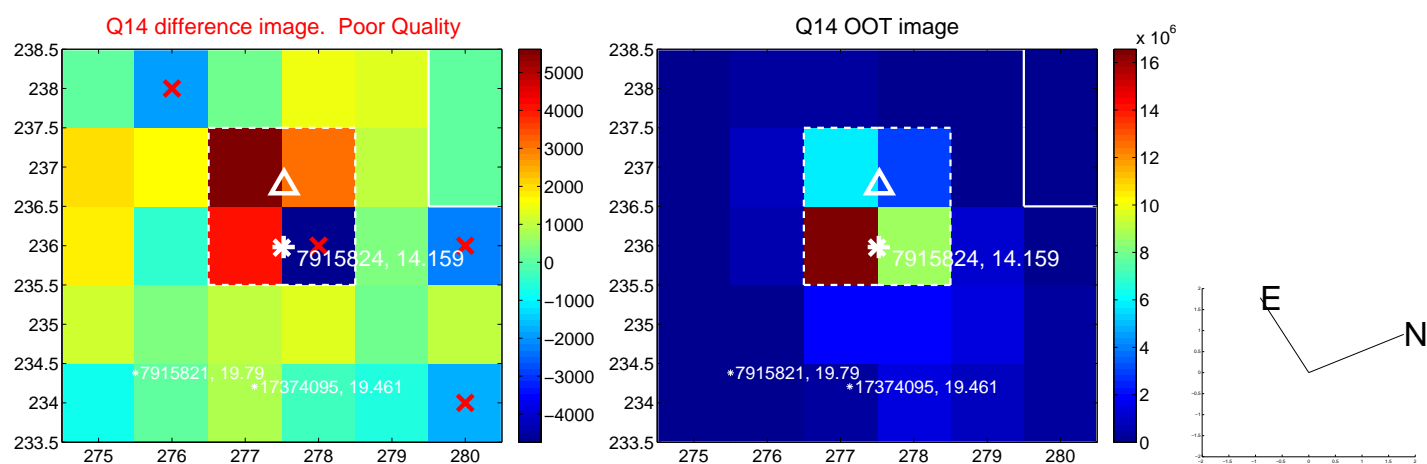
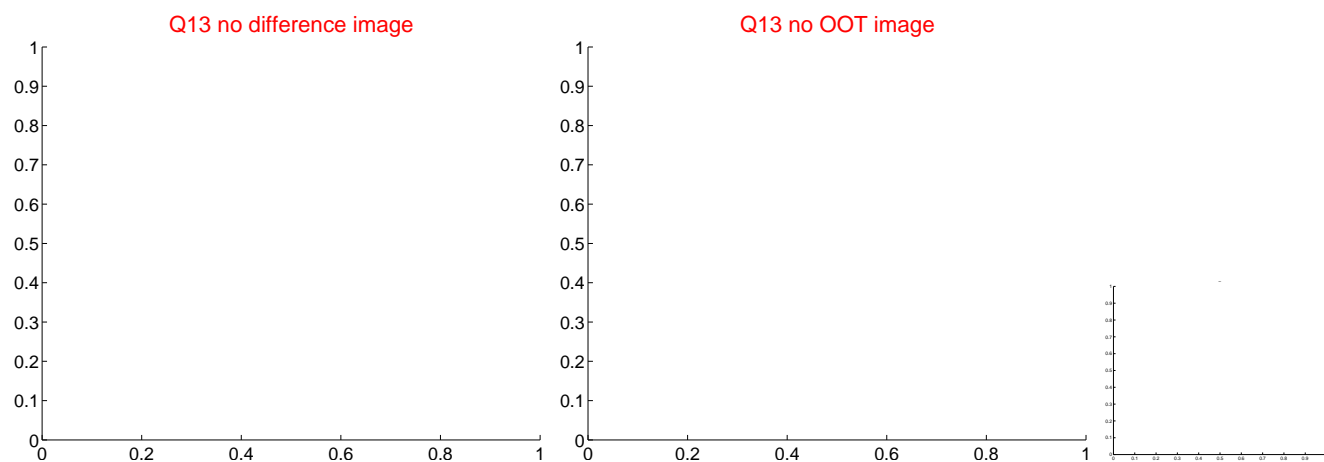
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



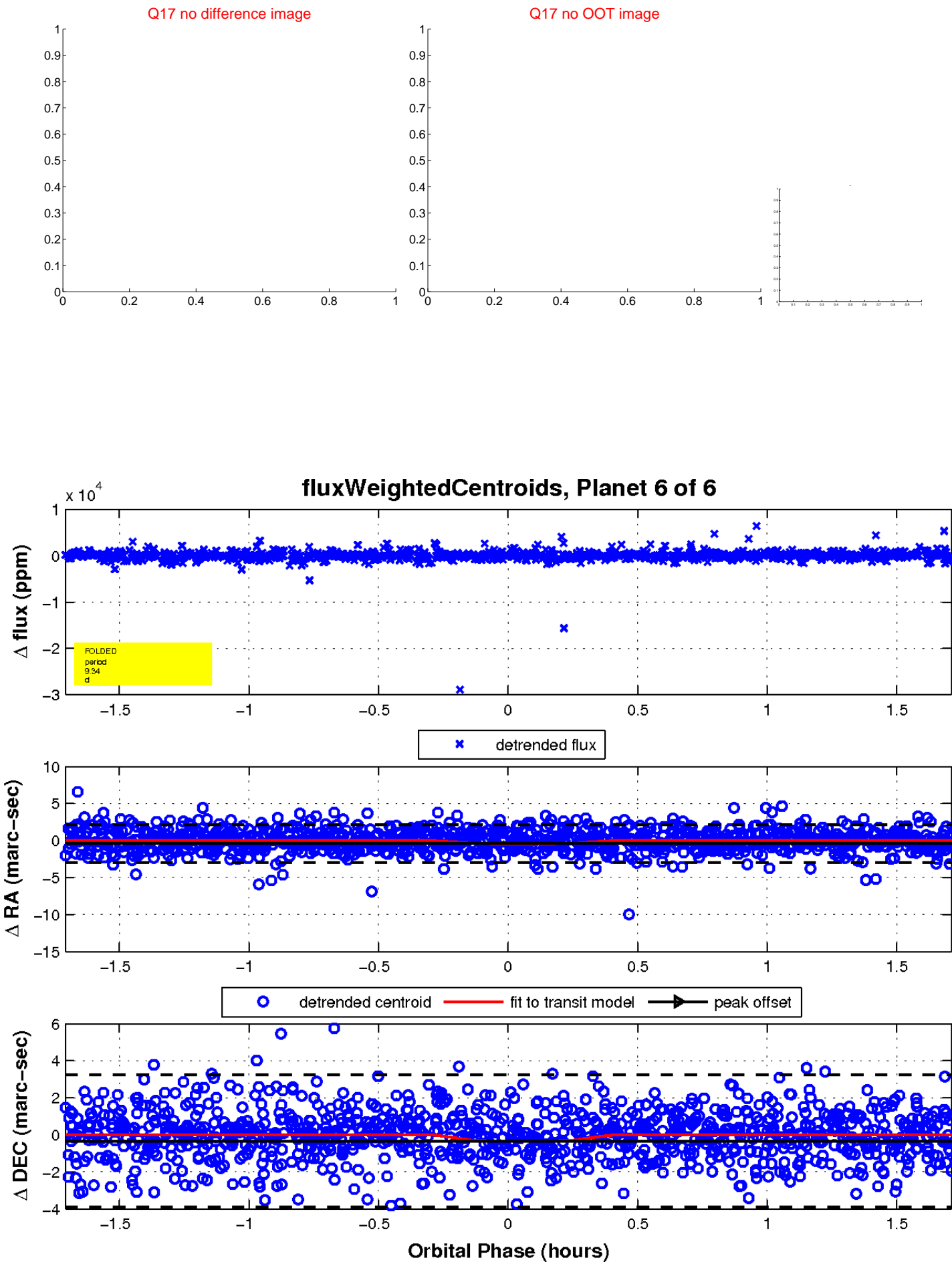
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

