

KIC 007919763

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})
007919763-01	OBS	No	273.757919	390.070694	945.7	4.361	16.2	6.3	0.97	5470	2.98	1.26
007919763-02	OBS	No	474.481443	545.037849	963.6	12.546	12.3	4.0	0.97	5470	3.03	0.60
007919763-03	OBS	No	476.162932	405.218182	574.1	15.159	11.5	2.6	0.97	5470	2.35	0.60
007919763-04	OBS	No	417.955389	275.969817	710.3	2.953	11.3	6.5	0.97	5470	2.67	0.72
007919763-05	OBS	No	0.521530	131.904944	455.0	2.000	11.1	-1.0	0.97	5470	2.04	5333.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007919763-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007919763-02	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007919763-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS
007919763-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007919763-05	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS

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

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

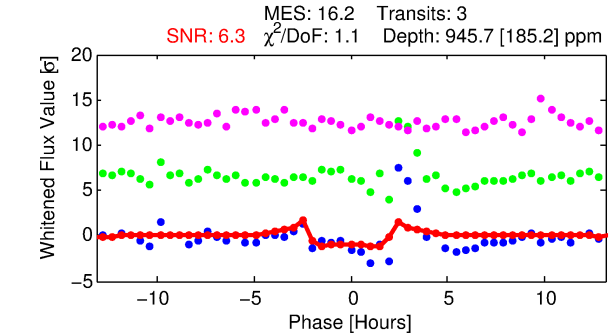
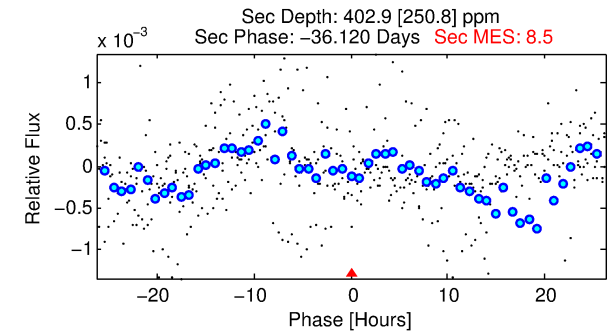
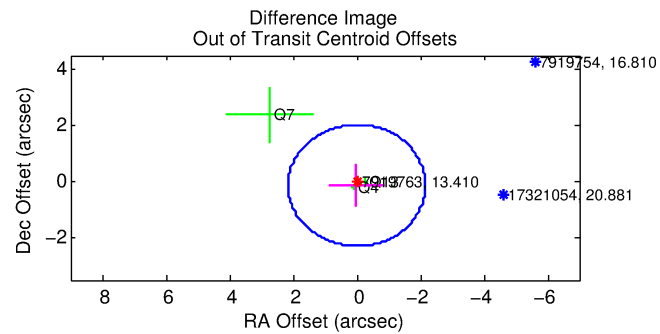
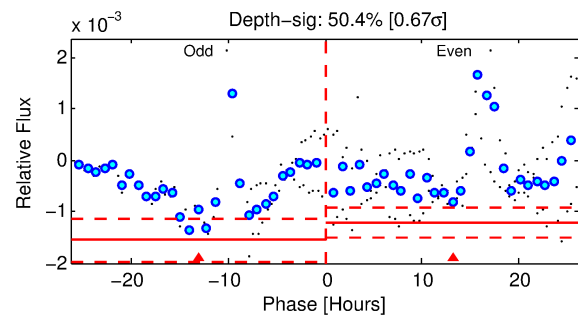
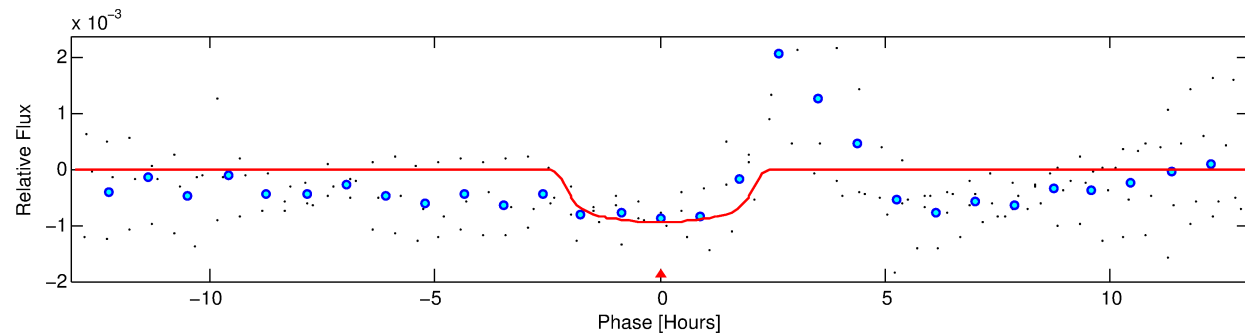
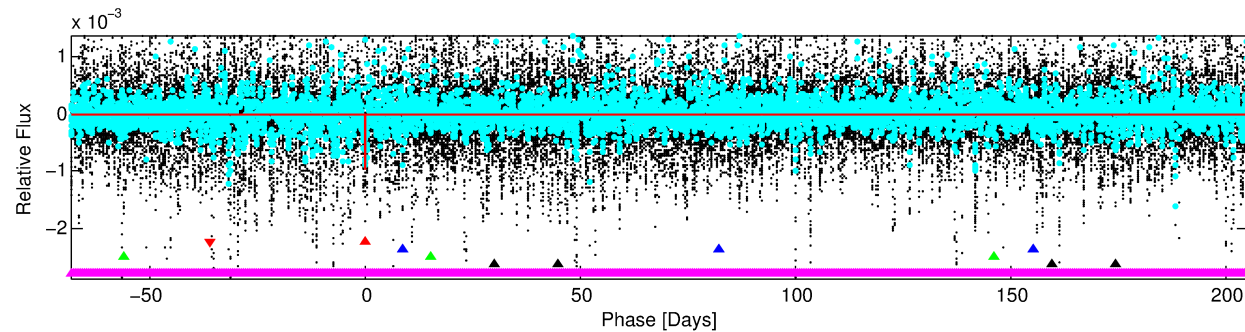
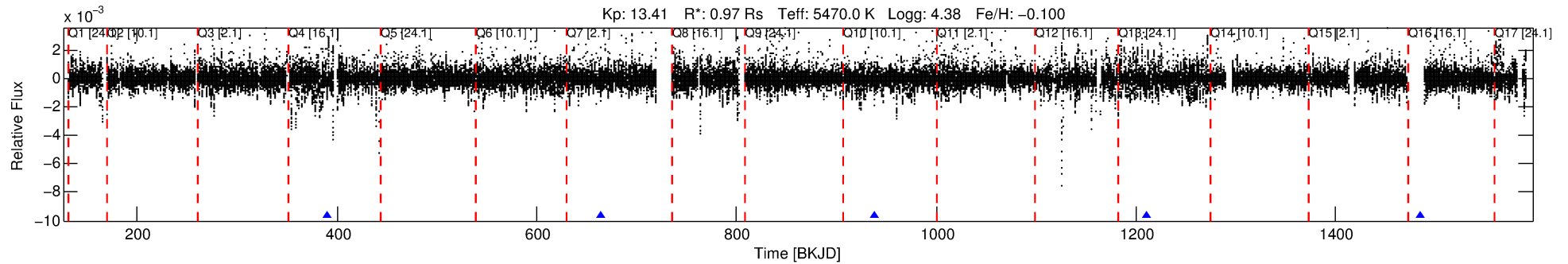
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007919763-01

No Significant Match Found

DV One-Page Summary

KIC: 7919763 Candidate: 1 of 5 Period: 273.758 d



DV Fit Results:

Period = 273.75792 [0.00261] d
Epoch = 390.0707 [0.0060] BKJD
Rp/R* = 0.0282 [0.0588]
a/R* = 459.45 [3832.04]
b = 0.37 [19.42]
Seff = 1.26 [0.59]
Teq = 270 [32] K
Rp = 2.99 [6.32] Re
a = 0.7741 [0.2389] AU
Ag = 14905.37 [63257.58] [0.24 σ]
Teffp = 4615 [4870] K [0.89 σ]

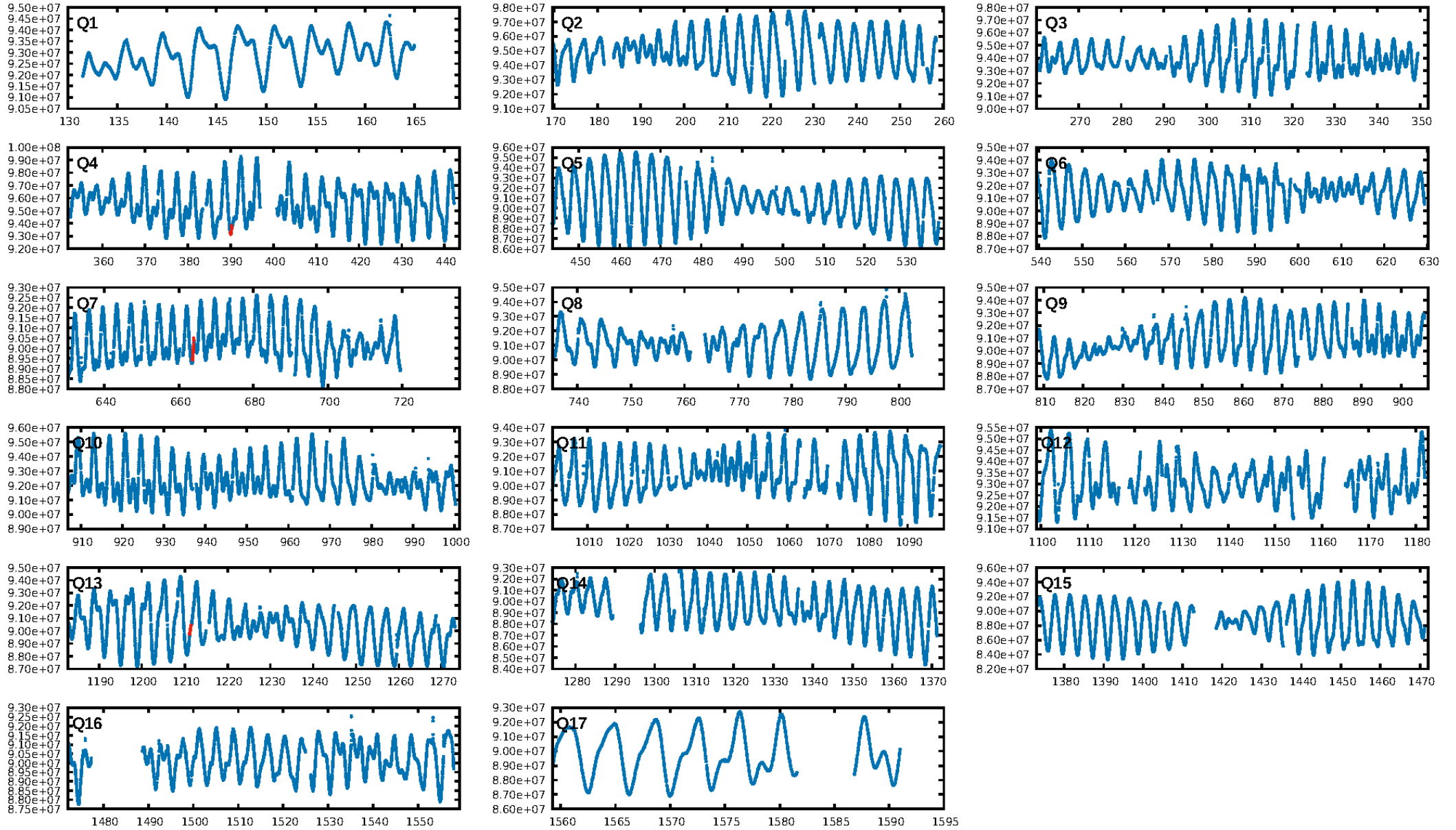
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [1366.82 σ]
LongPeriod-sig: 100.0% [657.12 σ]
ModelChiSquare2-sig: 27.3%
ModelChiSquareGof-sig: 69.6%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.152
Centroid-sig: 2.2%
Centroid-so: 0.988 arcsec [1.07 σ]
OotOffset-rm: 0.135 arcsec [0.19 σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-rm: 0.069 arcsec [0.07 σ]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 0.33 [1/3]
DiffImageOverlap-fno: 0.00 [0/3]

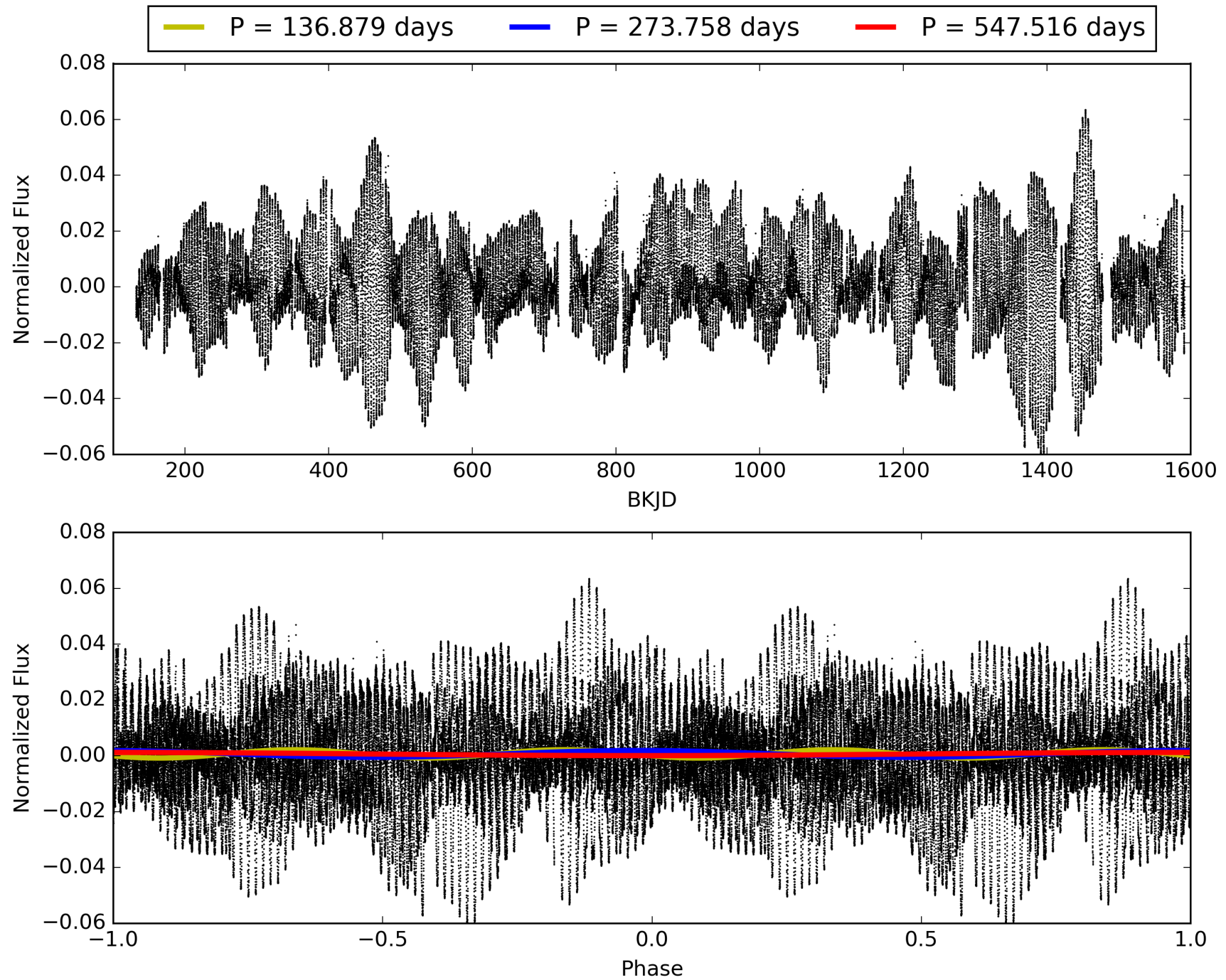
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:24:49 Z

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

TCE 007919763-01, PDC Light Curves

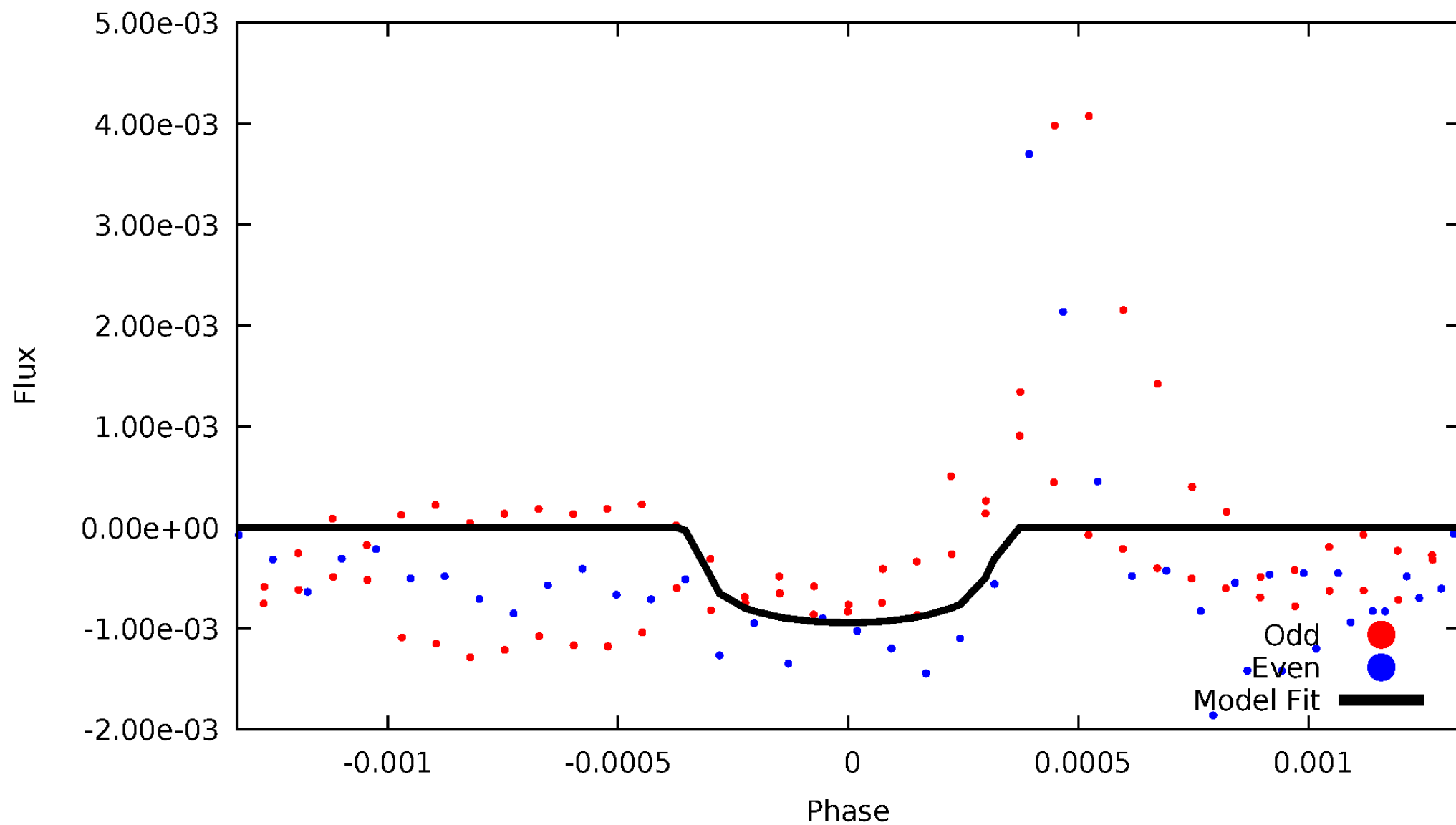


TCE 007919763-01



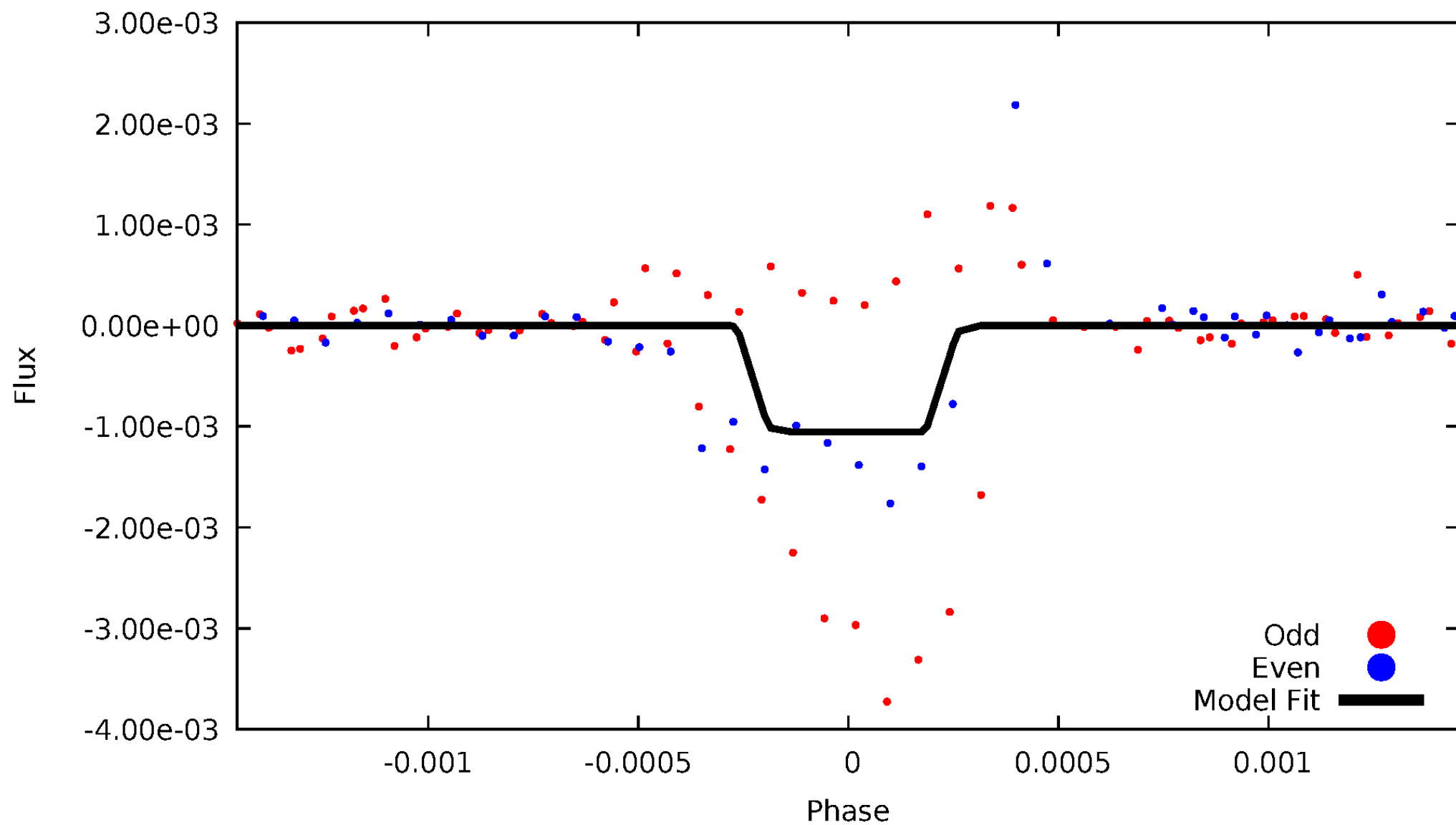
DV Odd/Even

TCE 007919763-01



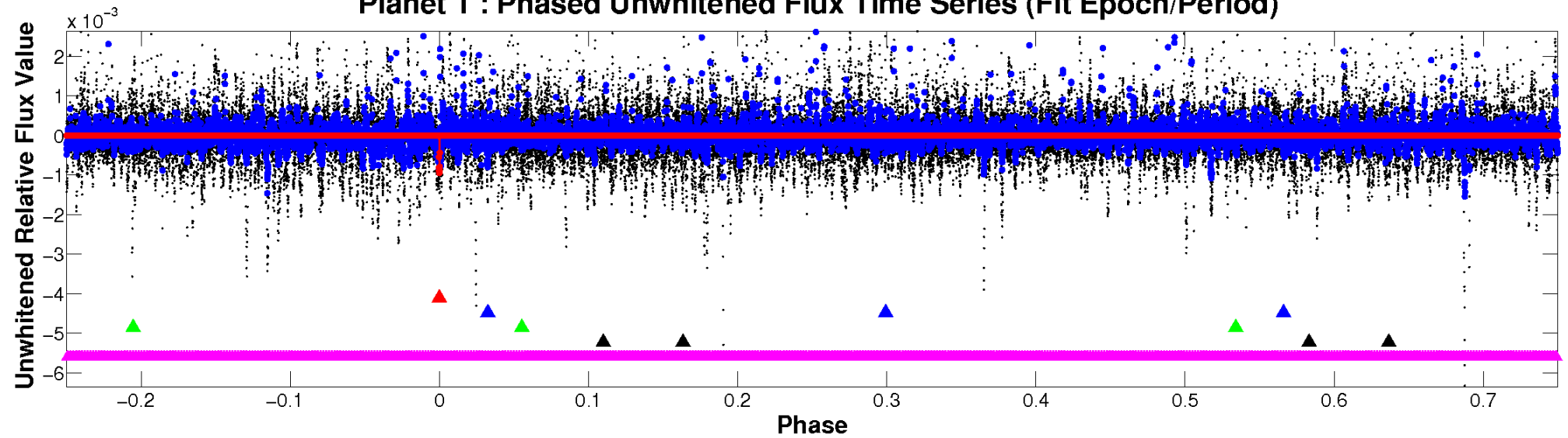
ALT Odd/Even

TCE 007919763-01

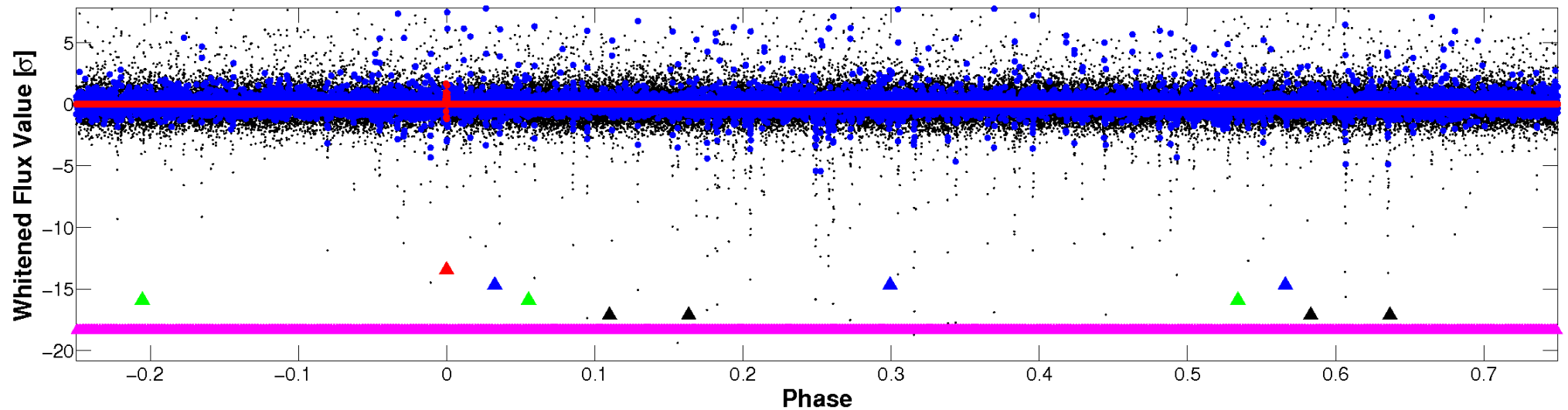


Non-Whitened Vs. Whitened Light Curve

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

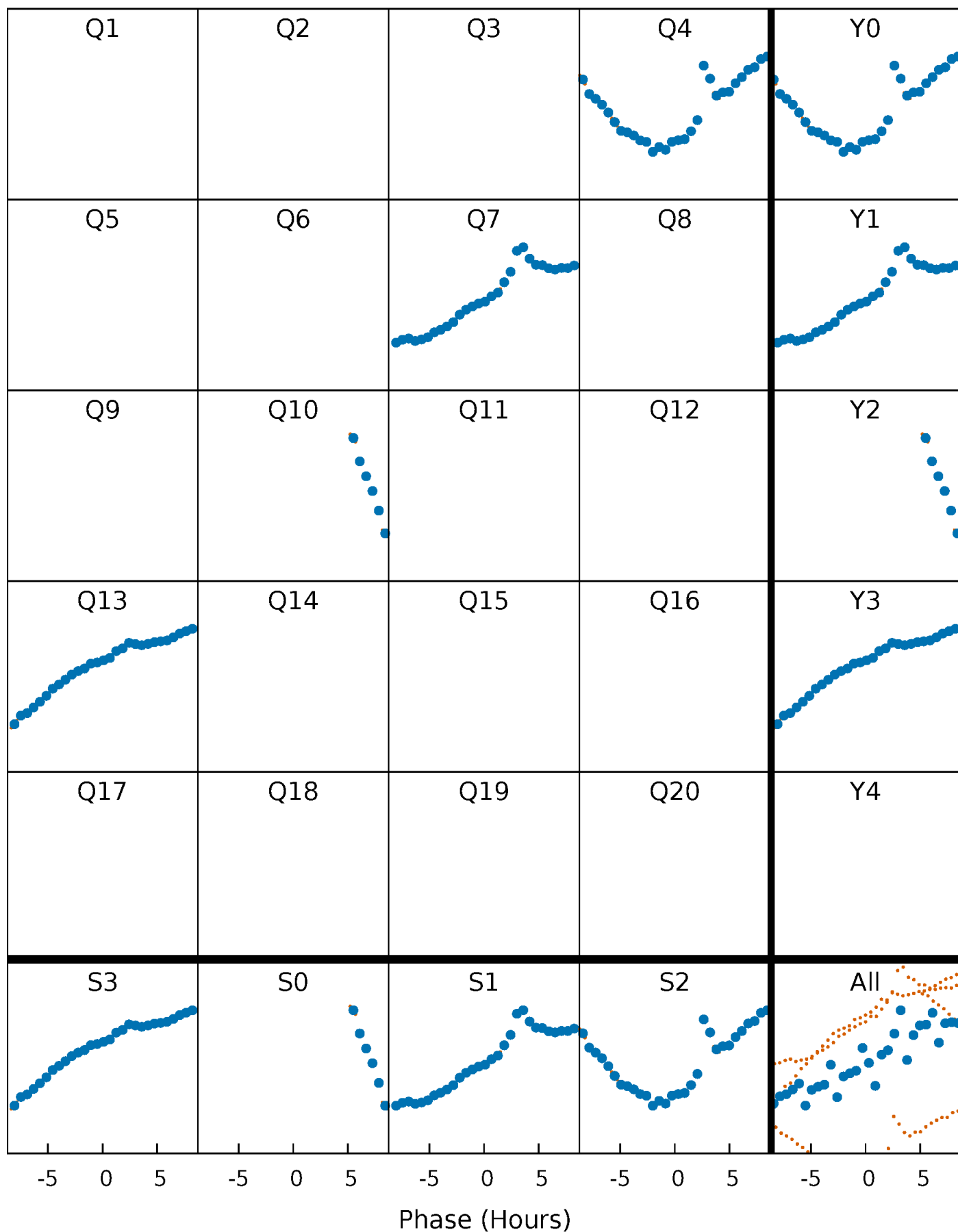


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



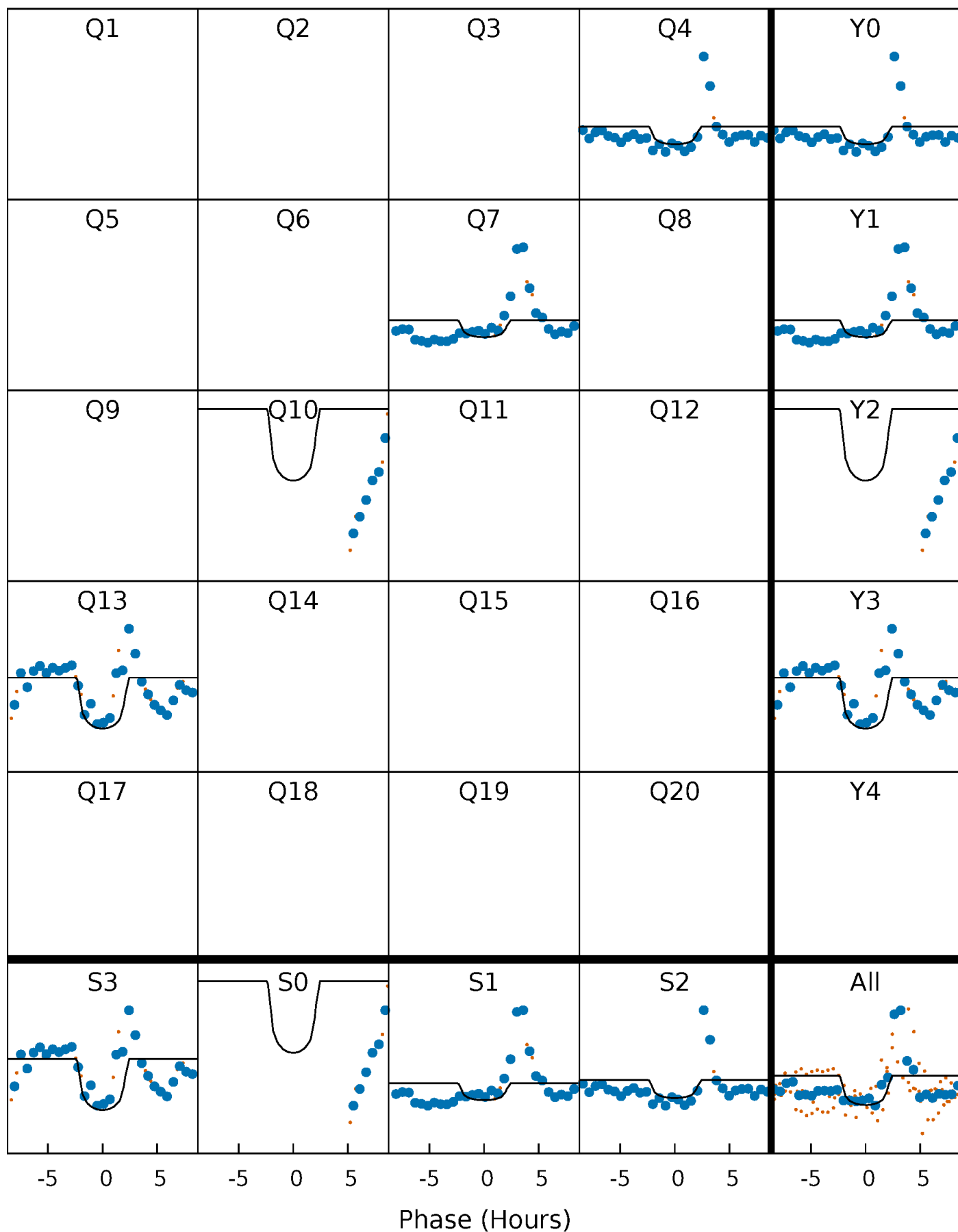
PDC Quarter-Phased Transit Curves

TCE 007919763-01 P=273.757920 Days $T_0=390.070694$ (BKJD)



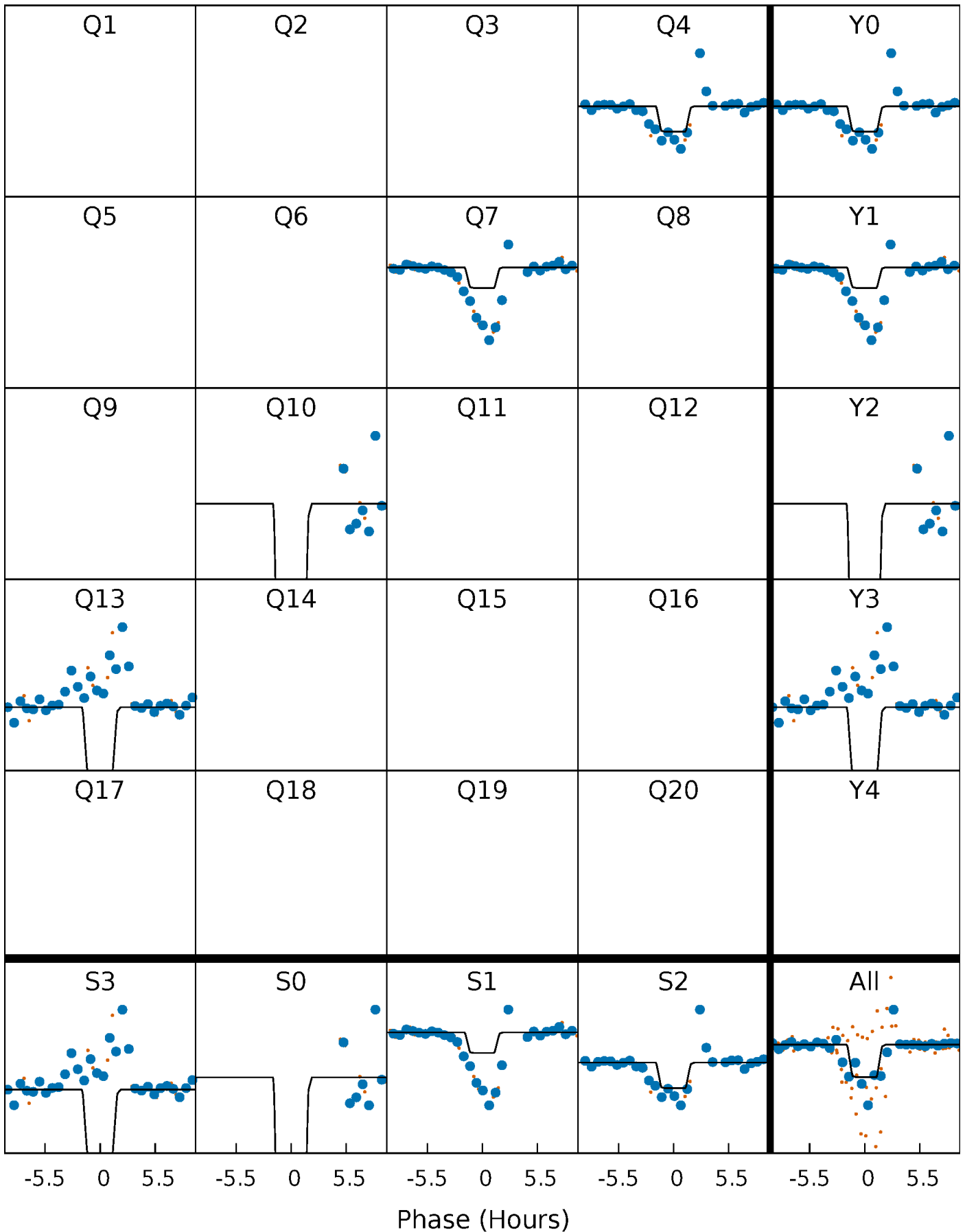
DV Quarter-Phased Transit Curves

TCE 007919763-01 P=273.757920 Days $T_0=390.070694$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

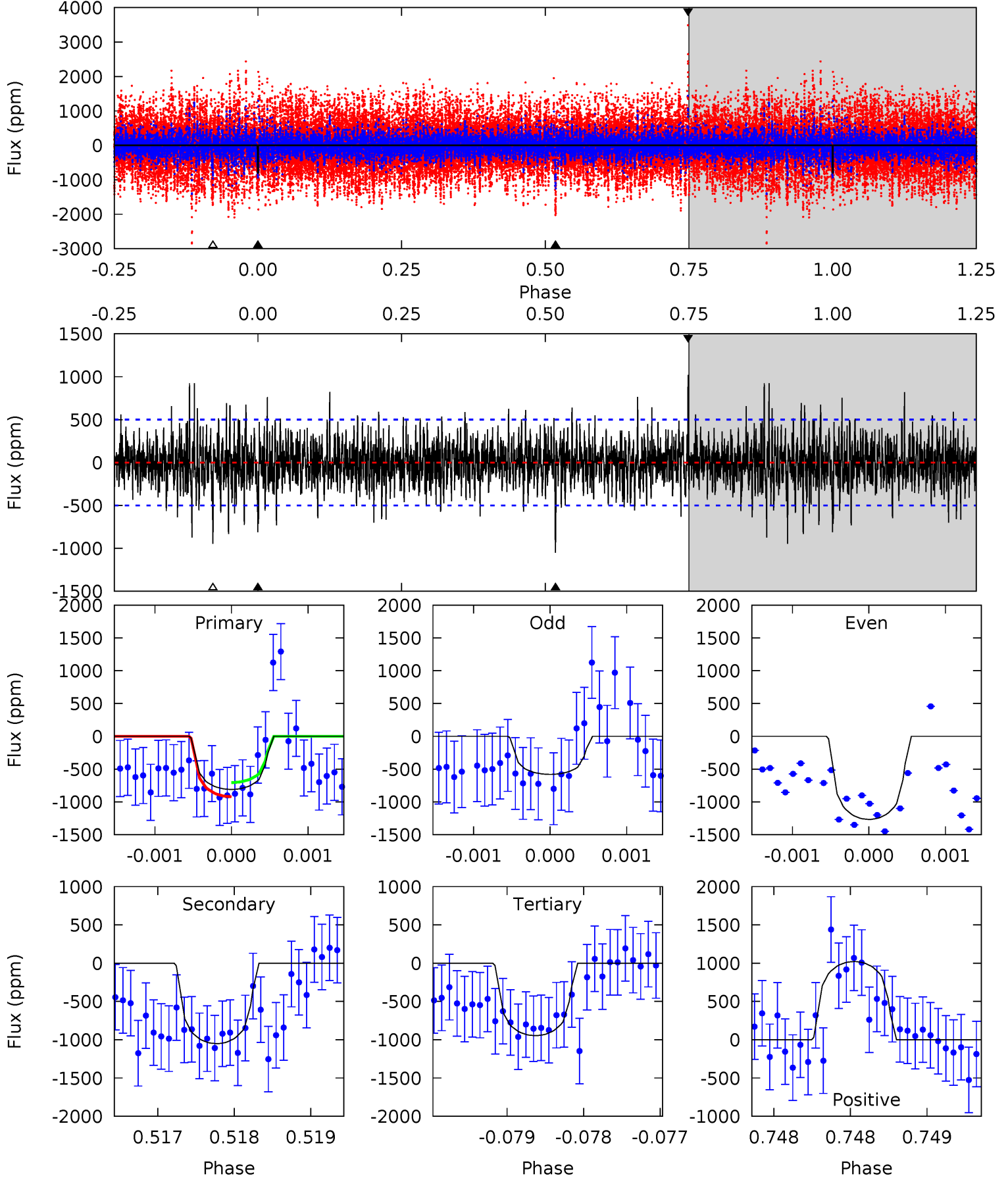
TCE 007919763-01 P=273.754801 Days $T_0=390.089547$ (BKJD)



DV Model-Shift Uniqueness Test

007919763-01, P = 273.757920 Days, E = 116.312774 Days

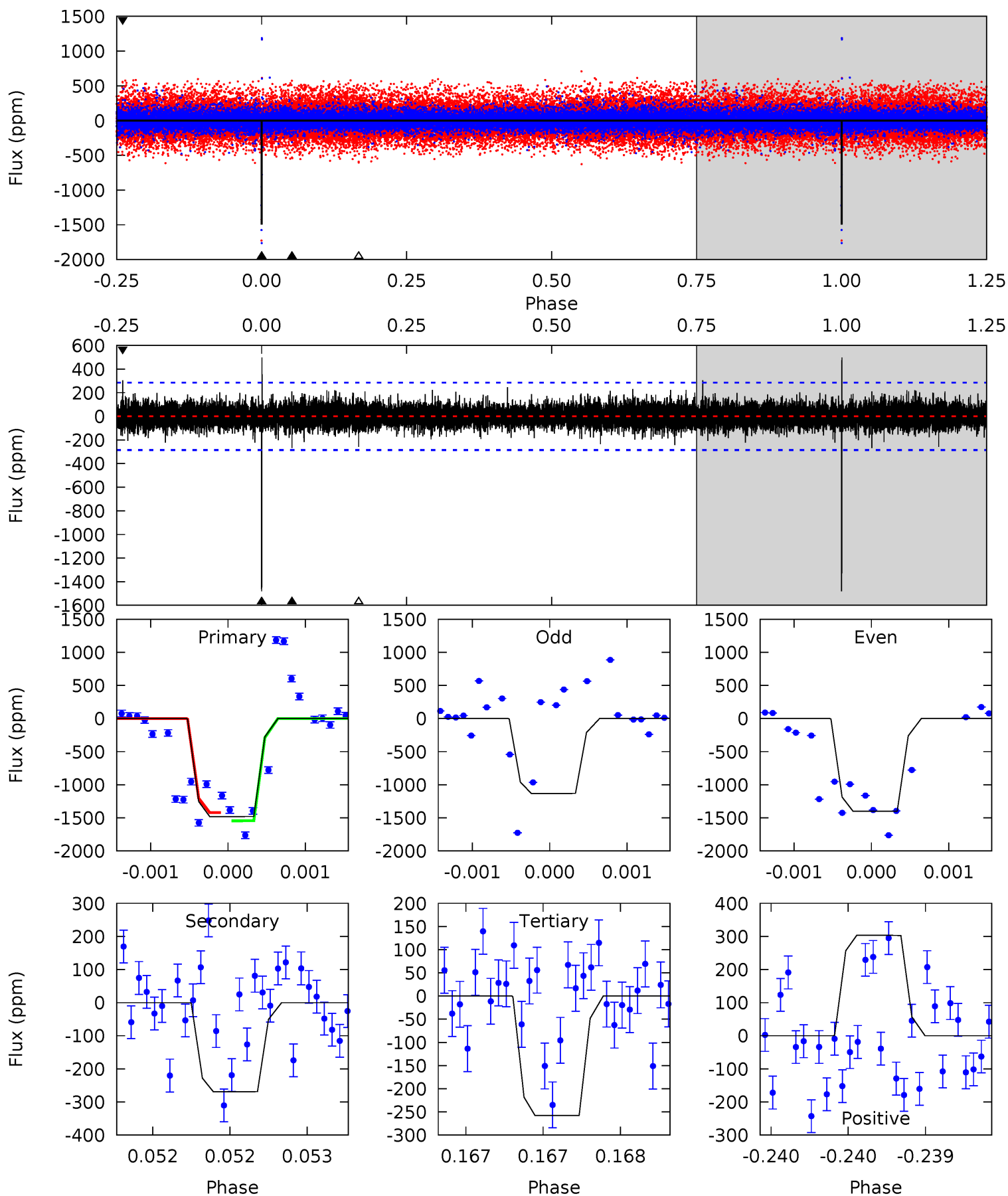
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.96	11.6	10.5	11.3	5.52	3.40	2.26	-1.51	-2.33	1.15	0.33	3.36	1.25	0.49	1.20



Alt Model-Shift Uniqueness Test

007919763-01, P = 273.754801 Days, E = 116.334746 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.9	5.26	5.04	5.92	5.57	3.47	1.05	23.9	23.0	0.22	-0.66	3.58	0.94	0.25	0



Stellar Parameters For KIC 007919763

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5470^{+164}_{-147}	$4.381^{+0.168}_{-0.252}$	$-0.100^{+0.300}_{-0.250}$	$0.970^{+0.350}_{-0.175}$	$0.825^{+0.121}_{-0.070}$	$1.273^{+1.014}_{-0.749}$
	+3%/-3%	+4%/-6%	+300%/-250%	+36%/-18%	+15%/-8%	+80%/-59%
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 007919763-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1051 ± 91	$5.35^{+5.78}_{-3.59}$	381^{+37}_{-27}	4568^{+3341}_{-1025}	$12128^{+105731}_{-9307}$
Alt.	-269 ± 51	$6.21^{+5.19}_{-4.10}$	381^{+38}_{-26}	3412^{+1619}_{-548}	2221^{+17158}_{-1532}

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 $A_{obs} \gg 1.0$

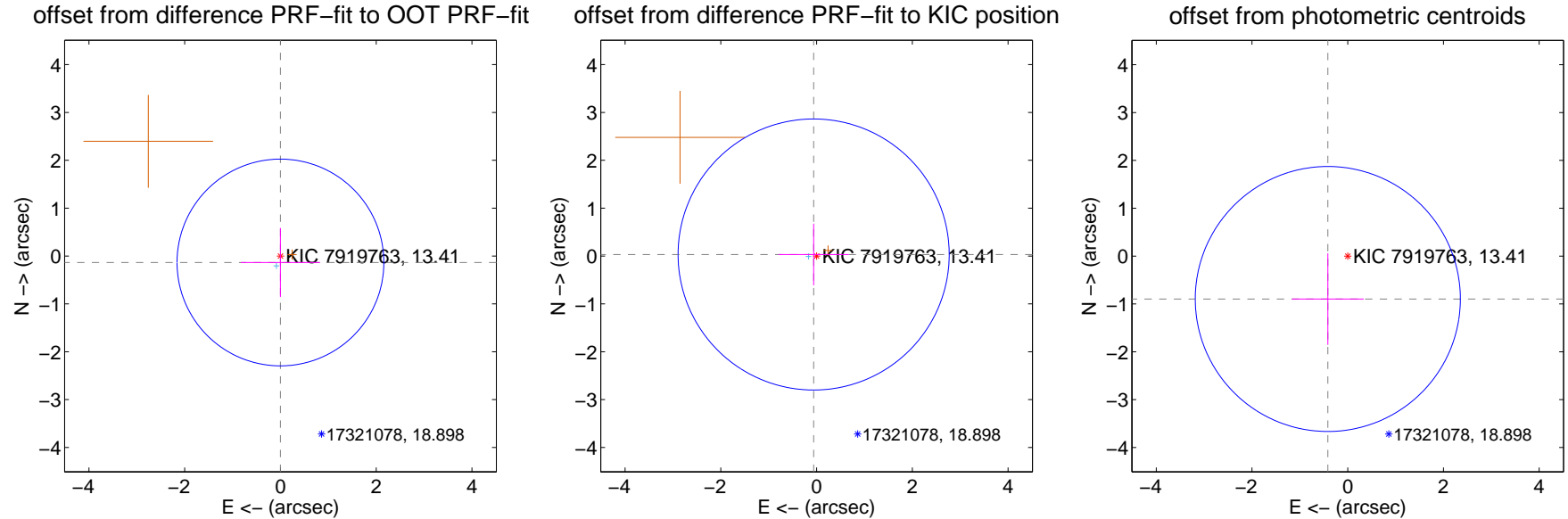
DV Centroid Data

Supplemental centroid analysis for 007919763-01. Kepler magnitude: 13.41. Transit SNR 6.25

There are 1 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.135 ± 0.720	0.19	0.000 ± 0.825	-0.135 ± 0.722
PRF-fit source offset from KIC position	0.069 ± 0.944	0.07	0.061 ± 0.734	0.032 ± 0.644
photometric centroid source offset	0.99 ± 0.92	1.07	0.42 ± 0.75	-0.90 ± 0.96



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.

Q1 no difference image



Q1 no OOT image



Q2 no difference image



Q2 no OOT image



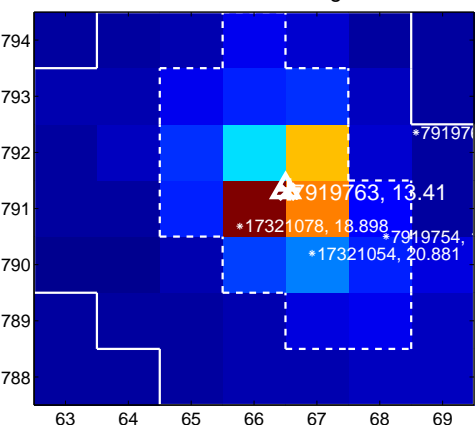
Q3 no difference image



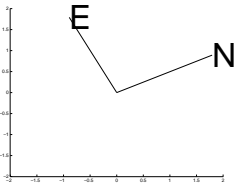
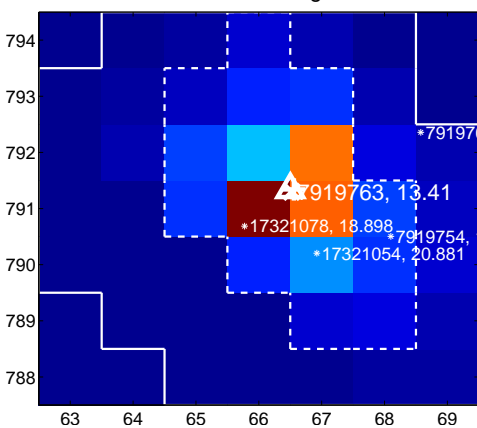
Q3 no OOT image



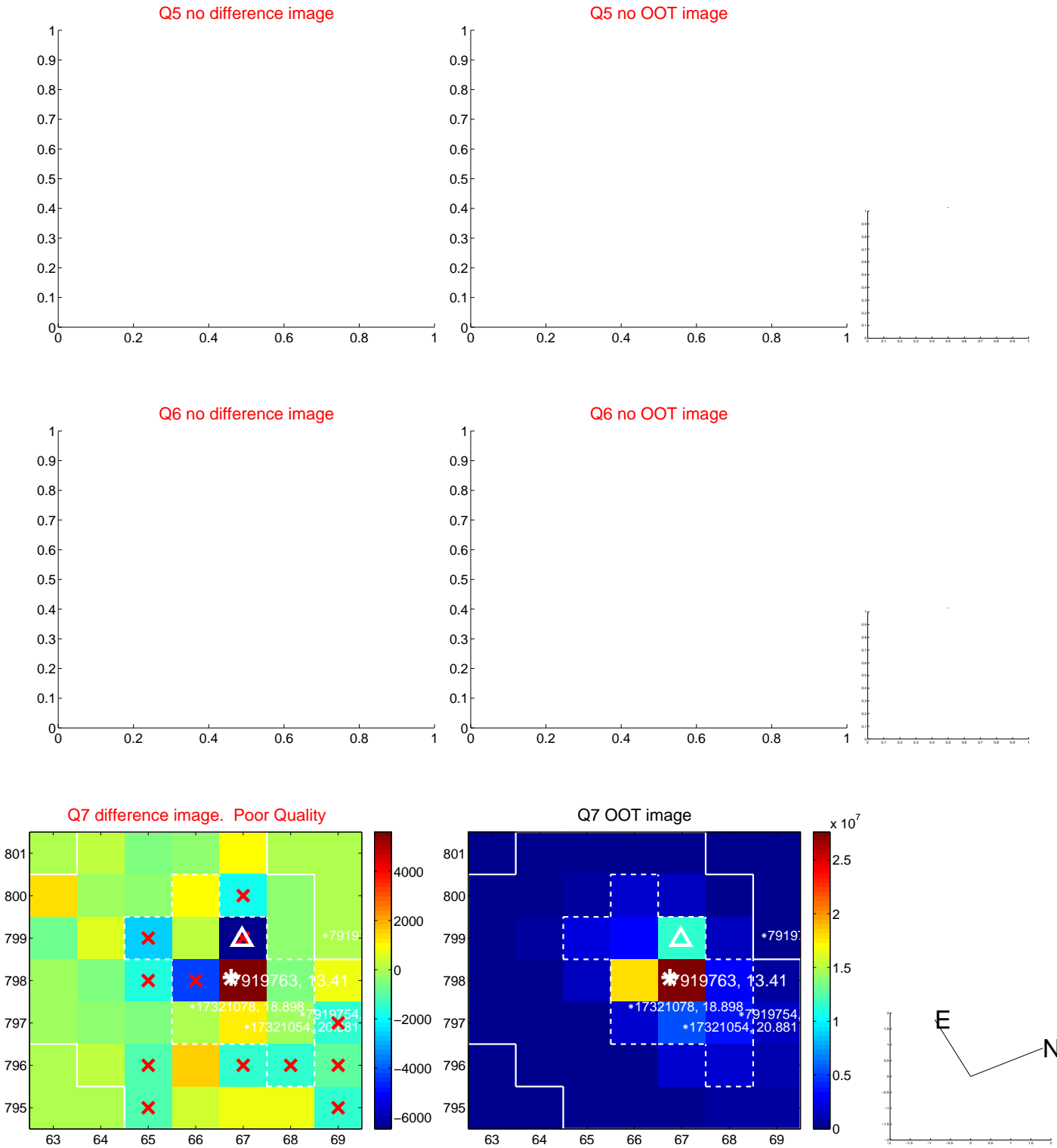
Q4 difference image



Q4 OOT image



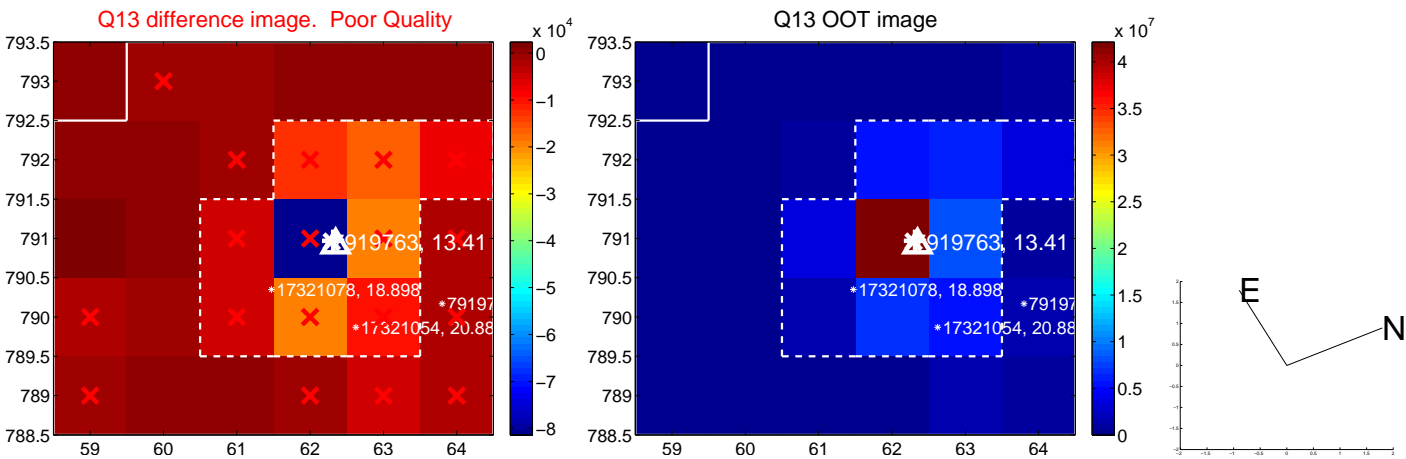
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



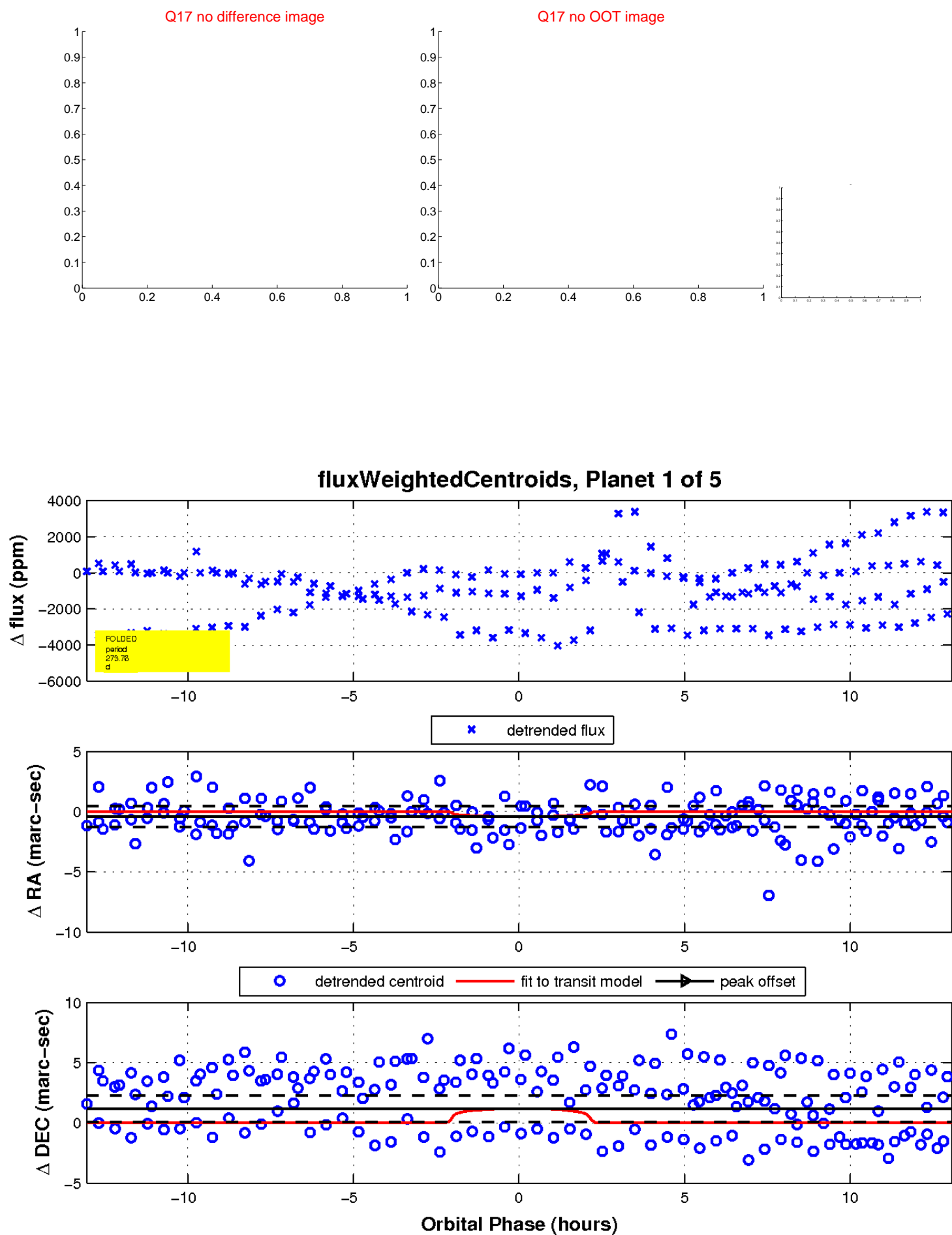
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

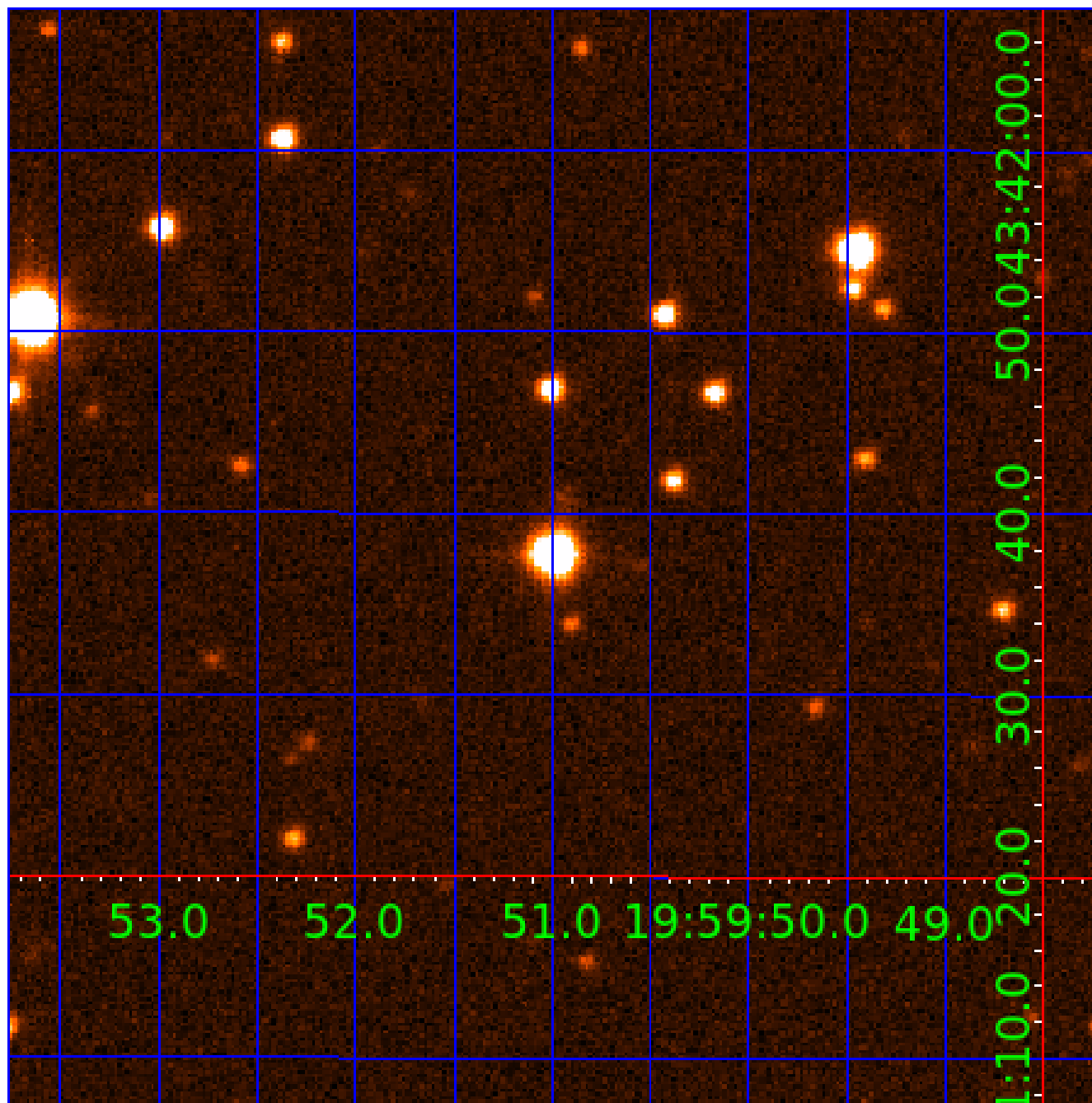


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007919763

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})
007919763-01	OBS	No	273.757919	390.070694	945.7	4.361	16.2	6.3	0.97	5470	2.98	1.26
007919763-02	OBS	No	474.481443	545.037849	963.6	12.546	12.3	4.0	0.97	5470	3.03	0.60
007919763-03	OBS	No	476.162932	405.218182	574.1	15.159	11.5	2.6	0.97	5470	2.35	0.60
007919763-04	OBS	No	417.955389	275.969817	710.3	2.953	11.3	6.5	0.97	5470	2.67	0.72
007919763-05	OBS	No	0.521530	131.904944	455.0	2.000	11.1	-1.0	0.97	5470	2.04	5333.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007919763-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007919763-02	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007919763-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS
007919763-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007919763-05	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS

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

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

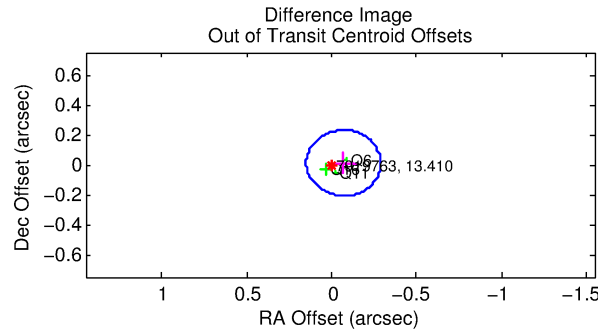
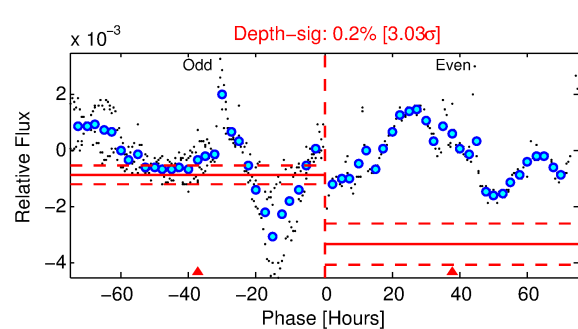
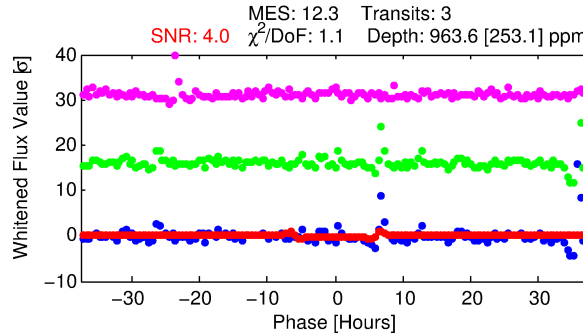
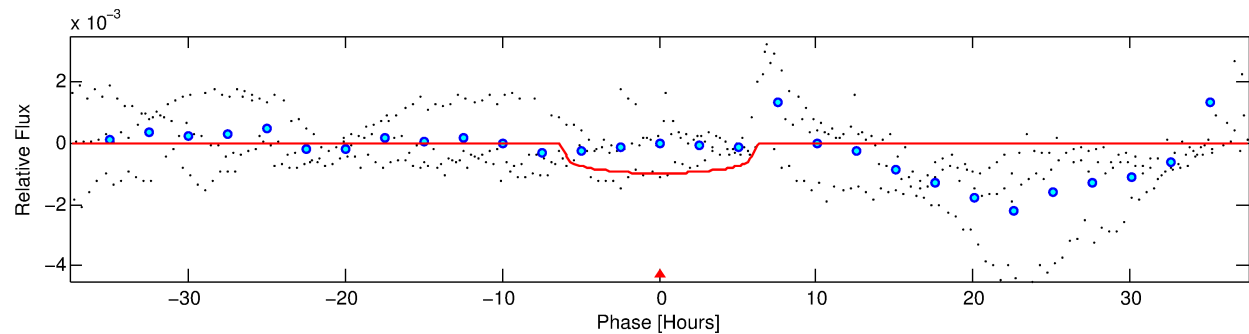
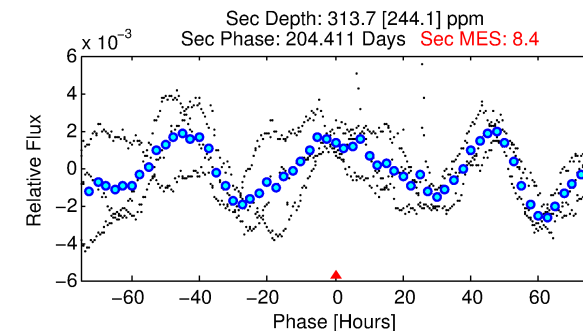
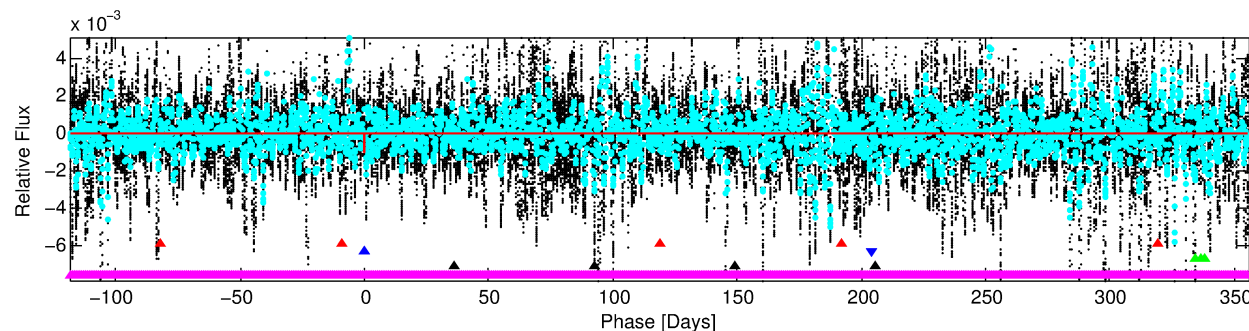
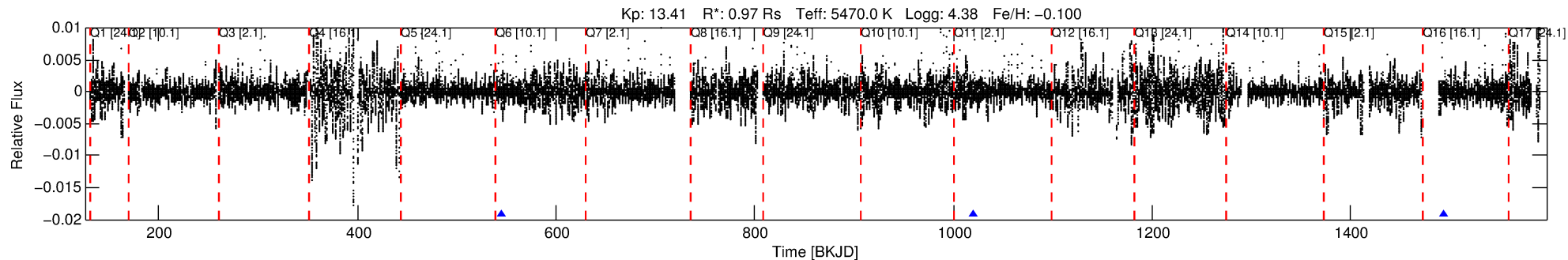
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007919763-02

No Significant Match Found

DV One-Page Summary

KIC: 7919763 Candidate: 2 of 5 Period: 474.481 d



DV Fit Results:

Period = 474.48144 [0.00654] d
Epoch = 545.0378 [0.0078] BKJD
Rp/R* = 0.0286 [0.0109]
a/R* = 270.61 [360.29]
b = 0.43 [2.57]
Seff = 0.60 [0.28]
Teq = 225 [26] K
Rp = 3.03 [1.59] Re
a = 1.1169 [0.3448] AU
Ag = 23448.62 [27632.59] [0.85σ]
Teffp = 4303 [1176] K [3.47σ]

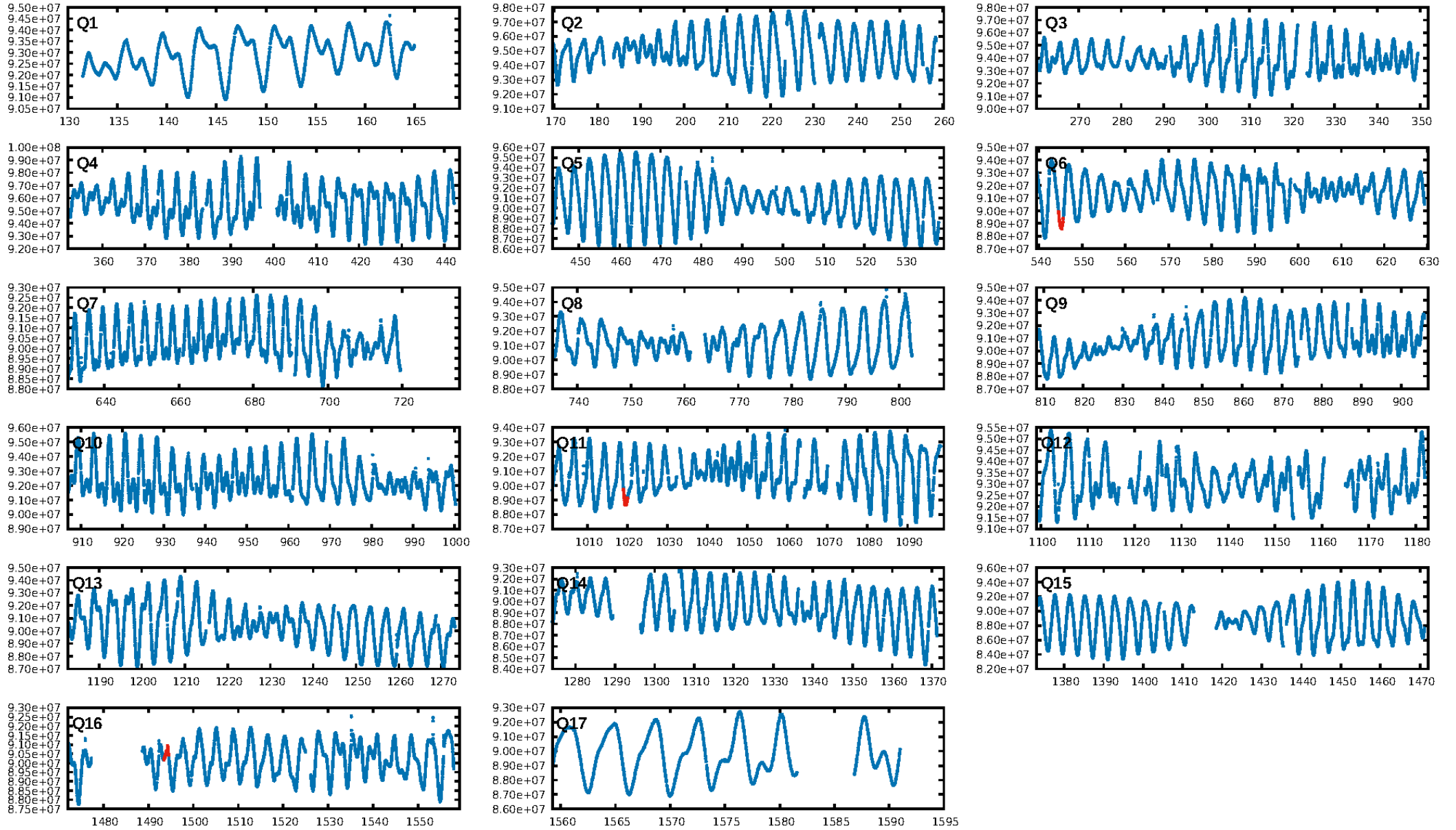
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [105.26σ]
LongPeriod-sig: 96.0% [2.05σ]
ModelChiSquare2-sig: 62.8%
ModelChiSquareGof-sig: 98.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 3.37
Centroid-sig: 27.7%
Centroid-so: 1.097 arcsec [1.18σ]
OotOffset-rm: 0.070 arcsec [0.96σ]
KicOffset-rm: 0.173 arcsec [2.39σ]
OotOffset-st: 1/1/1/0 [3]
KicOffset-st: 1/1/1/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 0.00 [0/3]

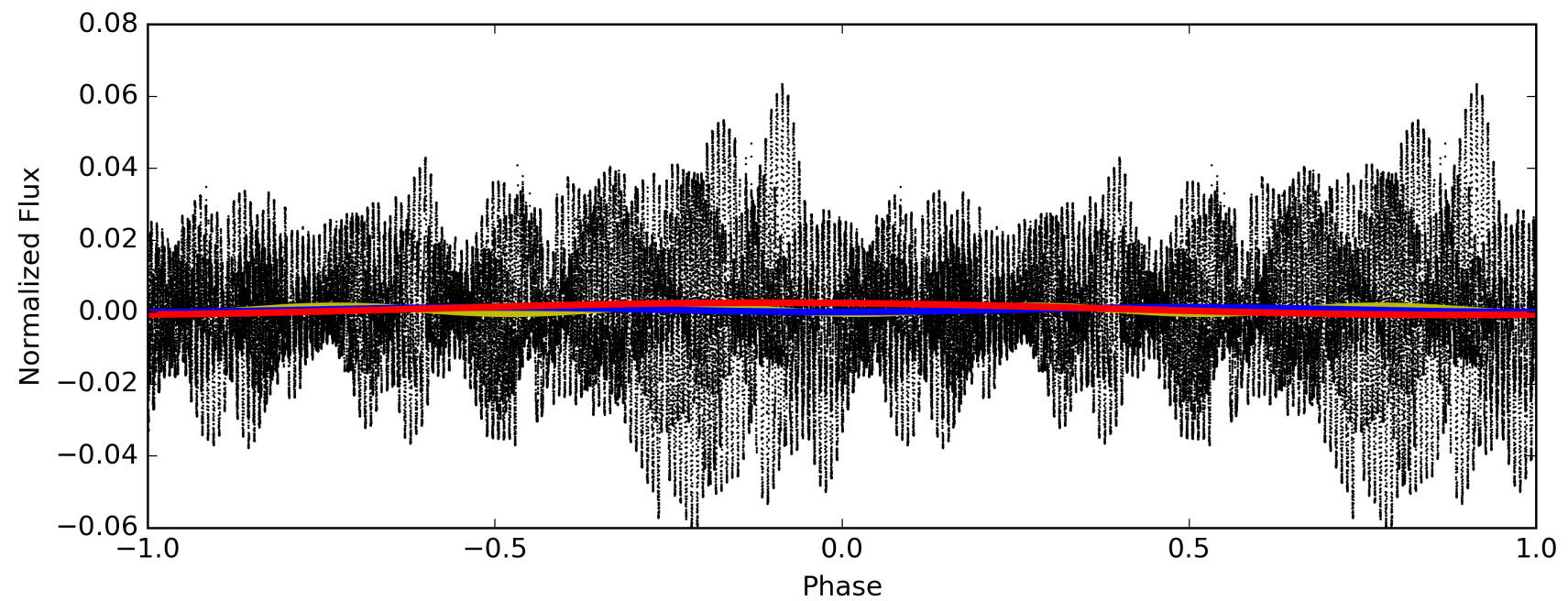
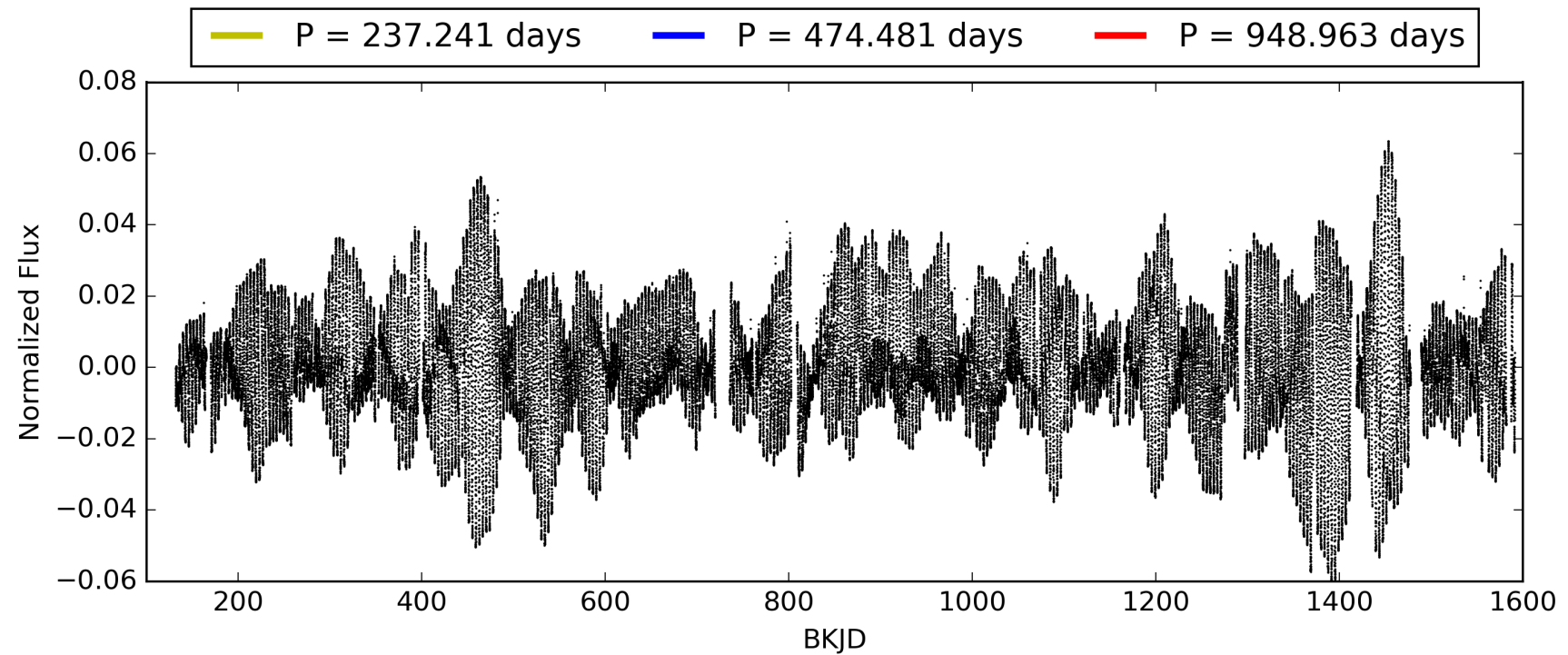
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:24:59 Z

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

TCE 007919763-02, PDC Light Curves

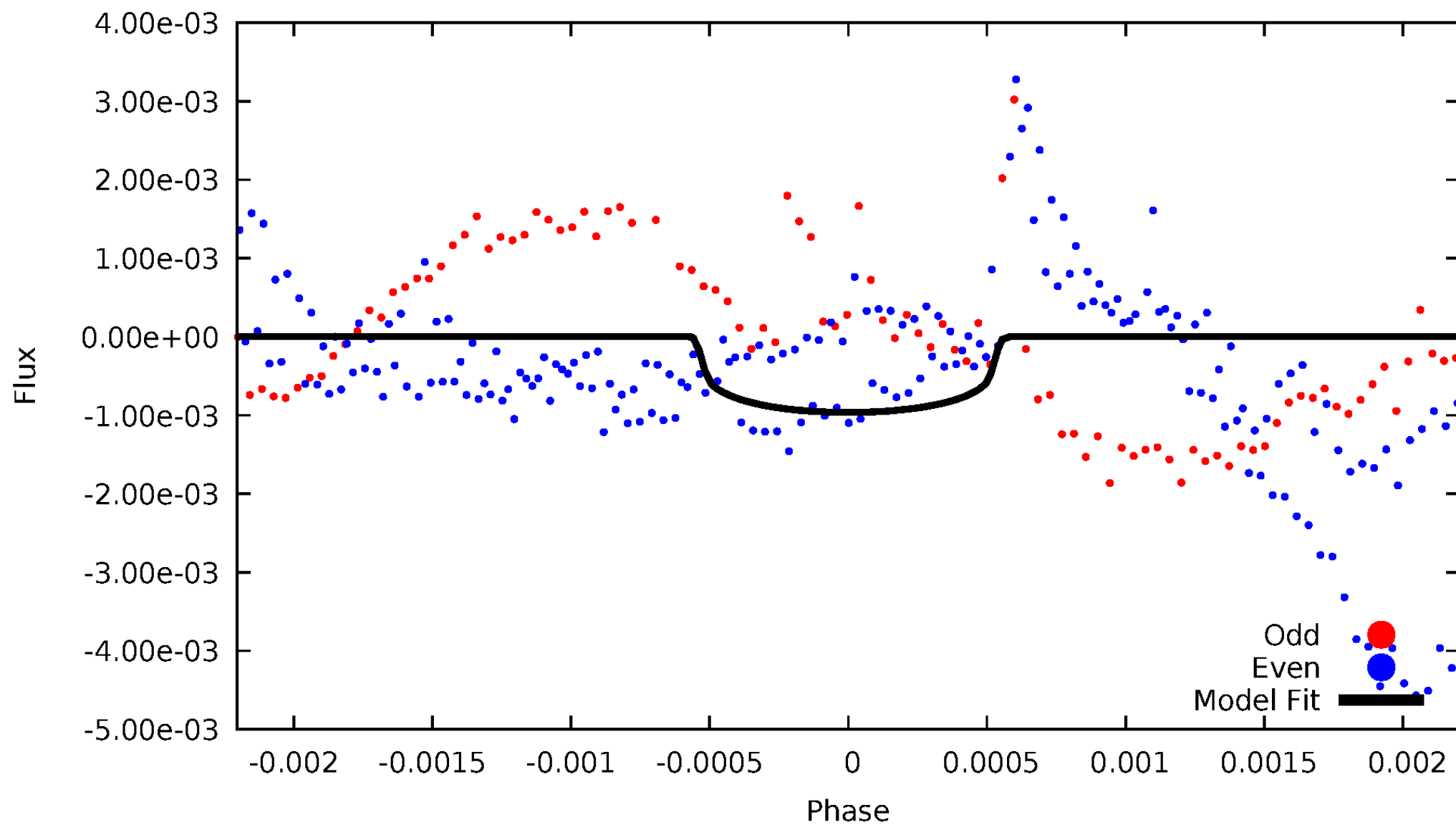


TCE 007919763-02



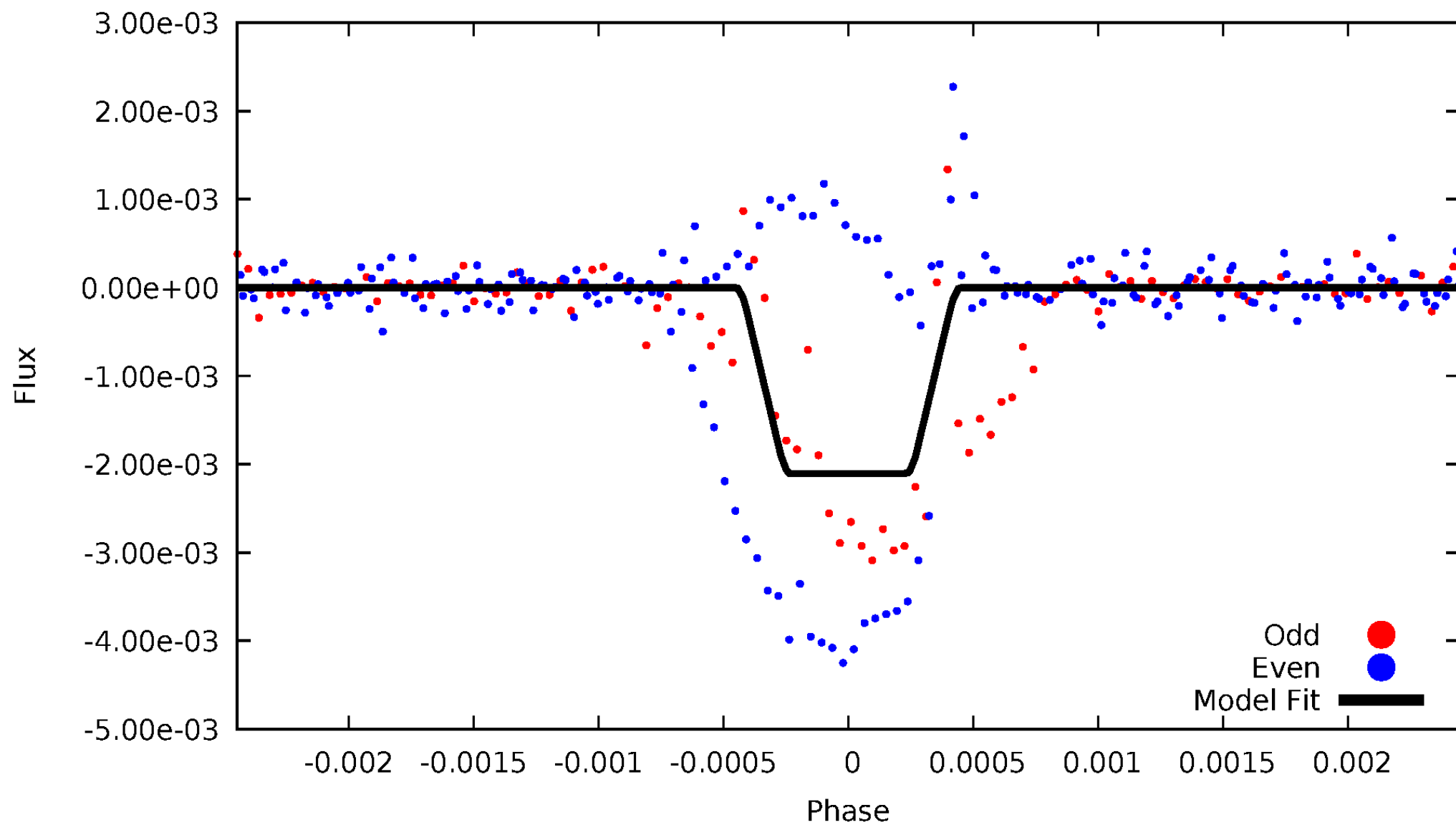
DV Odd/Even

TCE 007919763-02



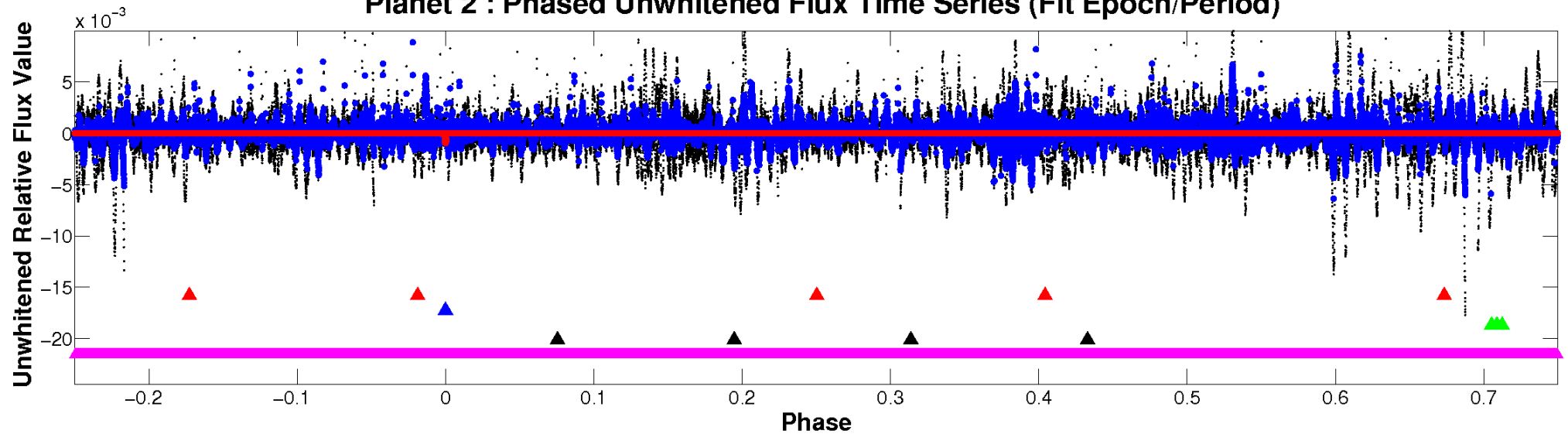
ALT Odd/Even

TCE 007919763-02

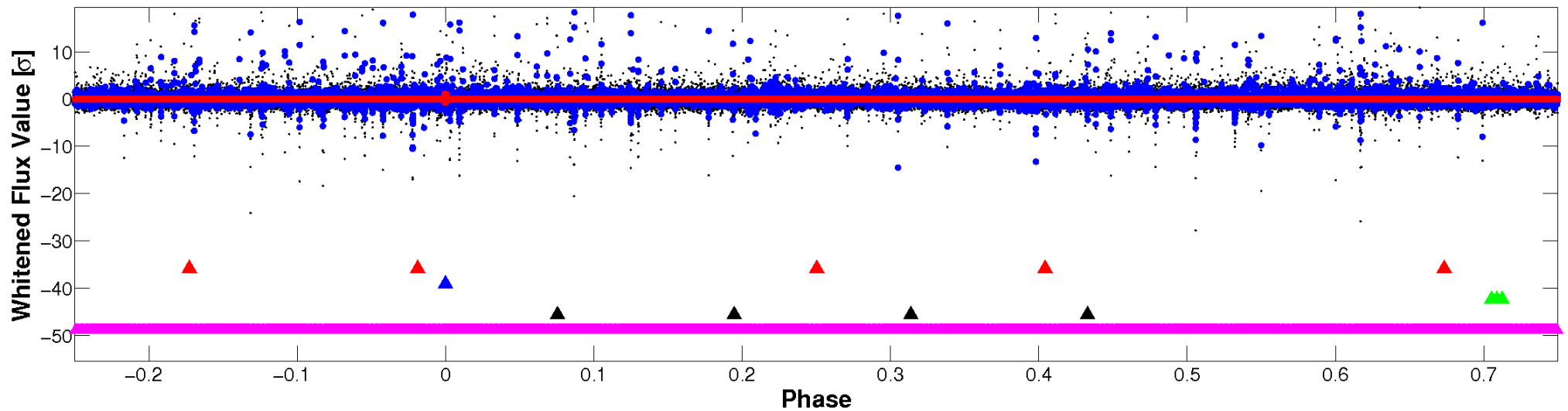


Non-Whitened Vs. Whitened Light Curve

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

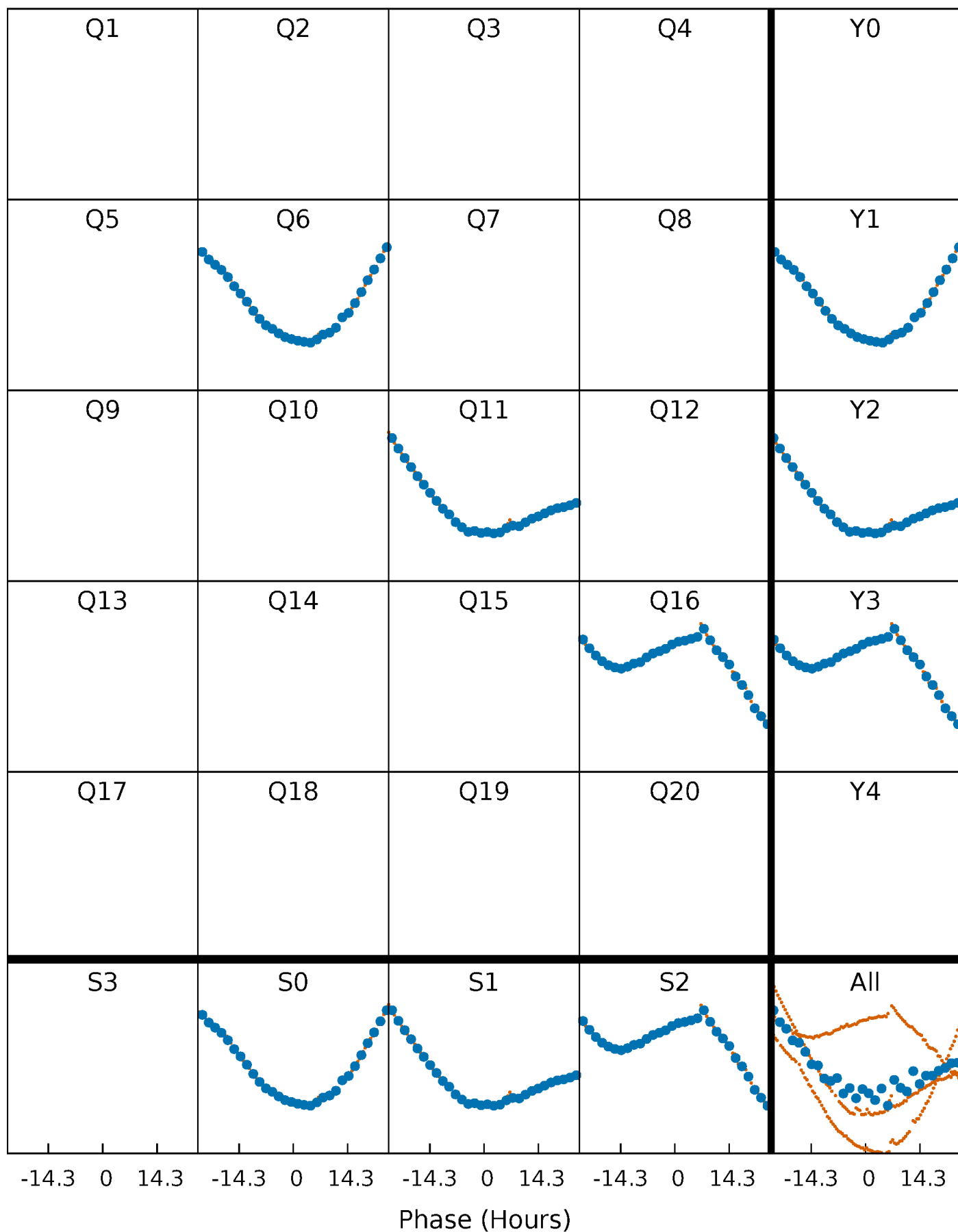


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



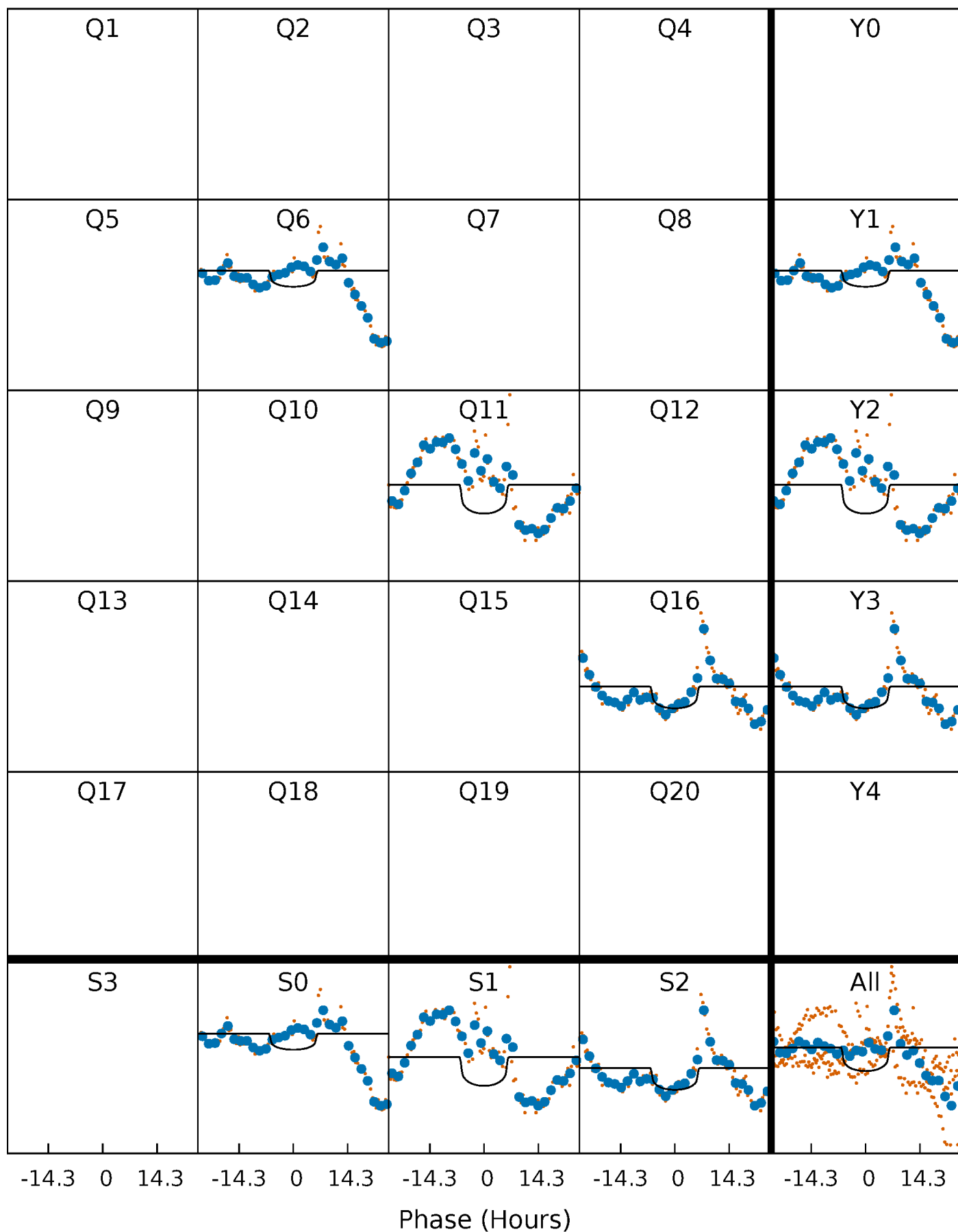
PDC Quarter-Phased Transit Curves

TCE 007919763-02 P=474.481443 Days $T_0=545.037848$ (BKJD)



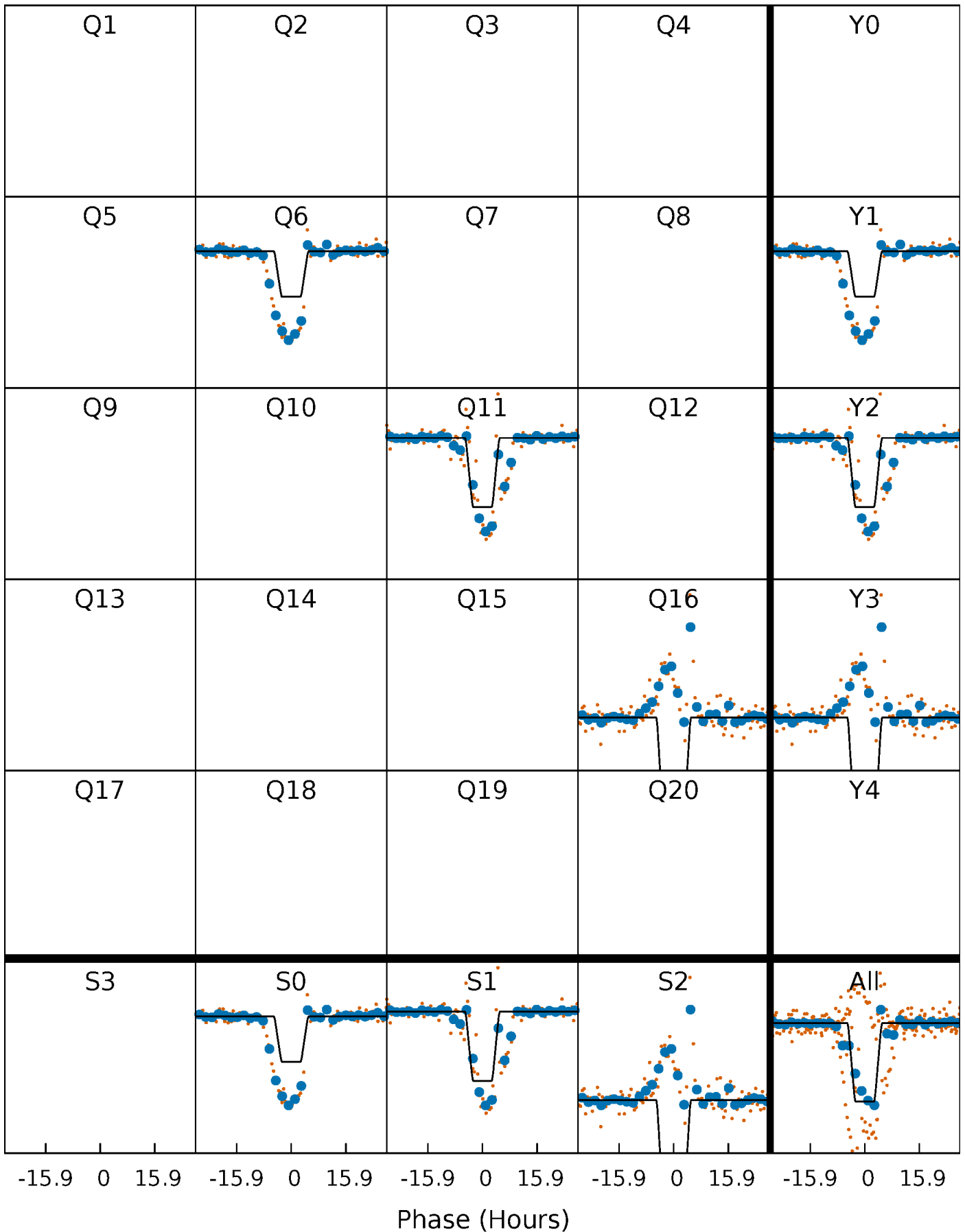
DV Quarter-Phased Transit Curves

TCE 007919763-02 P=474.481443 Days $T_0=545.037848$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

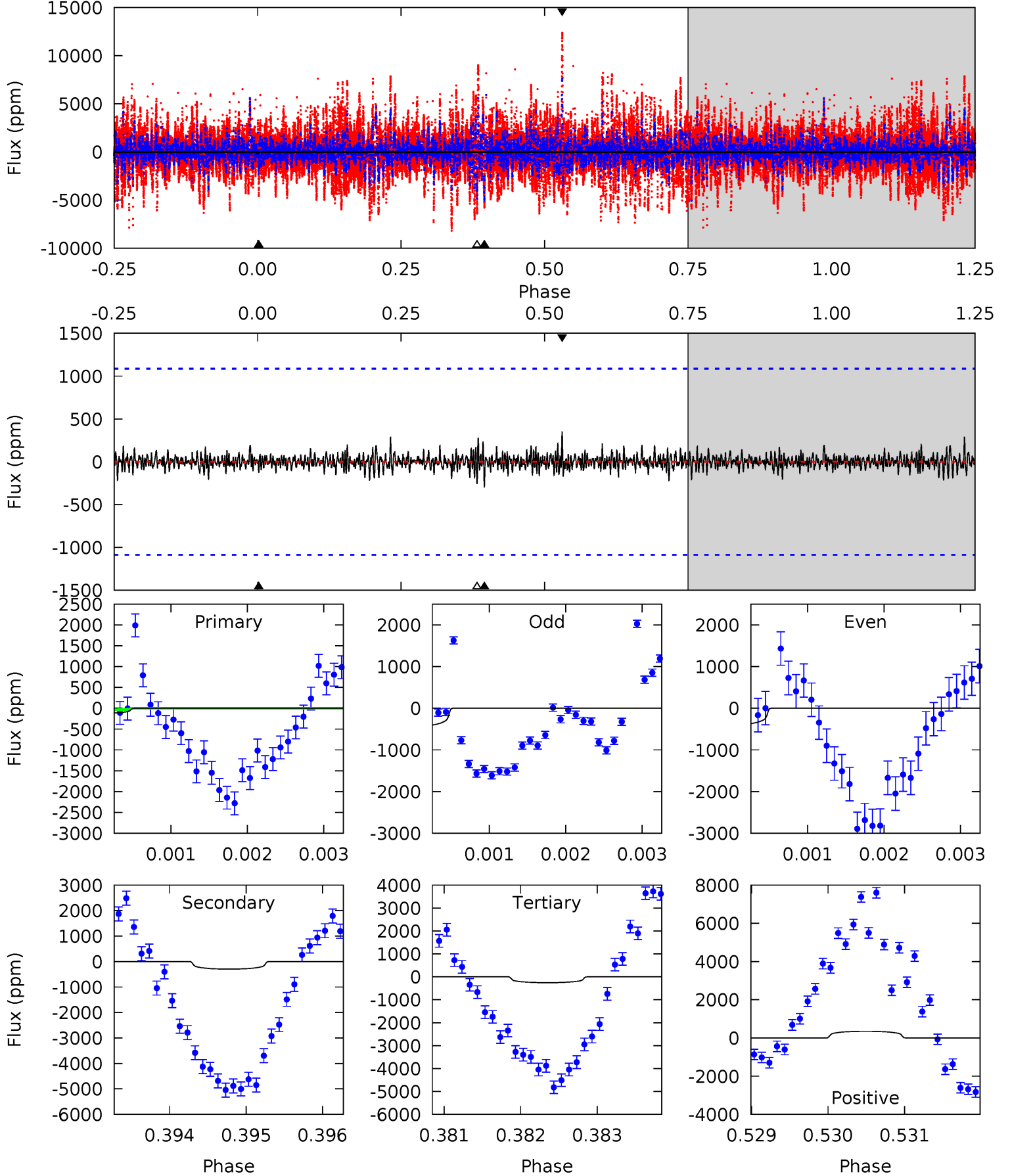
TCE 007919763-02 P=474.474074 Days $T_0=545.140439$ (BKJD)



DV Model-Shift Uniqueness Test

007919763-02, $P = 474.481443$ Days, $E = 70.556405$ Days

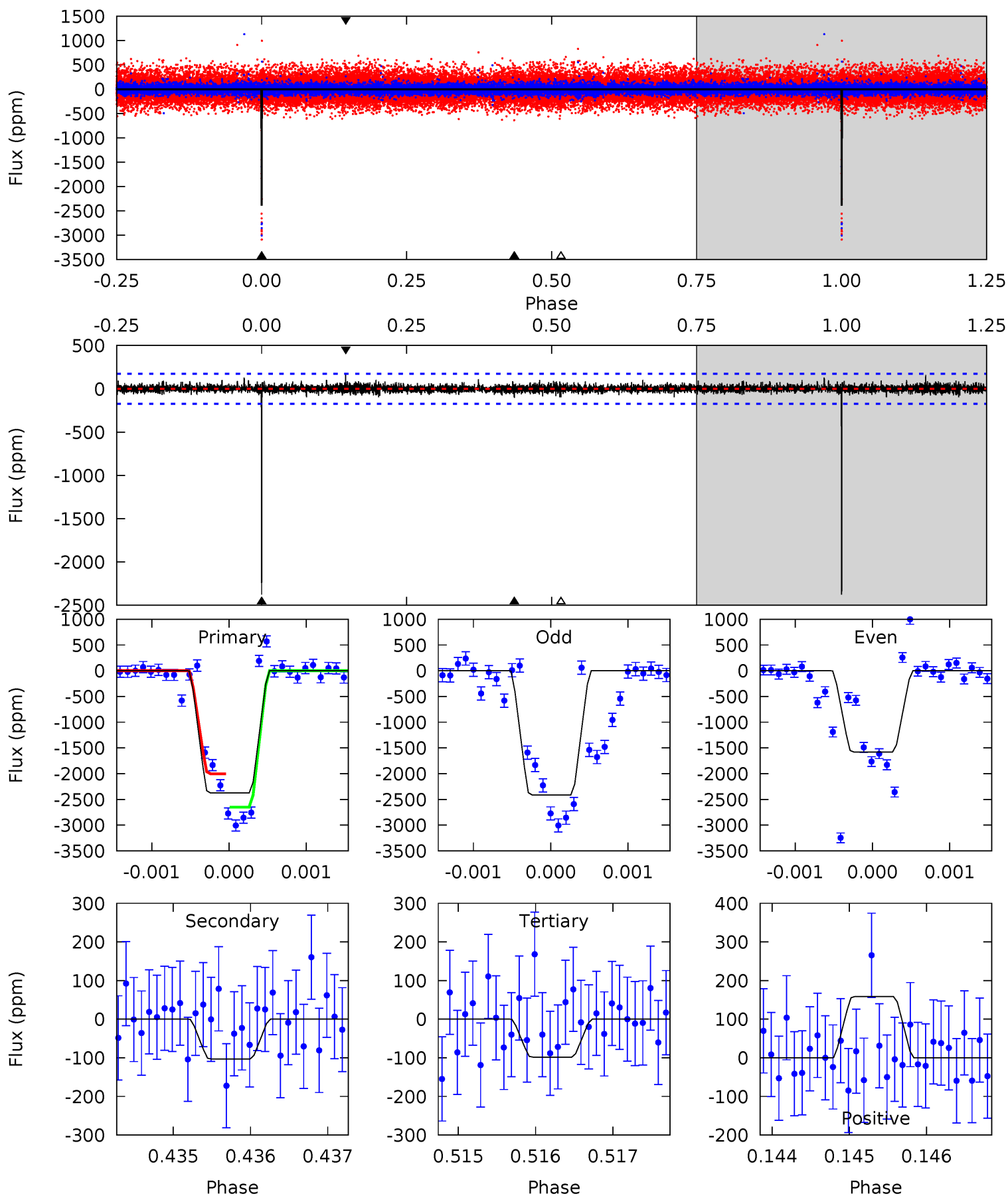
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.61	1.48	1.27	1.75	5.43	3.26	0.32	-0.67	-1.15	0.21	-0.27	0.08	-3.90	0.54	0.42



Alt Model-Shift Uniqueness Test

007919763-02, P = 474.474074 Days, E = 70.666365 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
75.1	3.26	3.11	5.01	5.48	3.33	0.69	72.0	70.1	0.15	-1.76	18.3	0.81	0.06	0



Stellar Parameters For KIC 007919763

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5470^{+164}_{-147}	$4.381^{+0.168}_{-0.252}$	$-0.100^{+0.300}_{-0.250}$	$0.970^{+0.350}_{-0.175}$	$0.825^{+0.121}_{-0.070}$	$1.273^{+1.014}_{-0.749}$
	+3%/-3%	+4%/-6%	+300%/-250%	+36%/-18%	+15%/-8%	+80%/-59%
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 007919763-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-297 ± 200	$3.12^{+1.40}_{-1.16}$	317^{+30}_{-22}	4368^{+1088}_{-911}	19860^{+37405}_{-14904}
Alt.	-103 ± 32	$4.86^{+1.57}_{-1.23}$	316^{+30}_{-20}	3166^{+311}_{-241}	2819^{+2651}_{-1295}

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 $A_{obs} \gg 1.0$

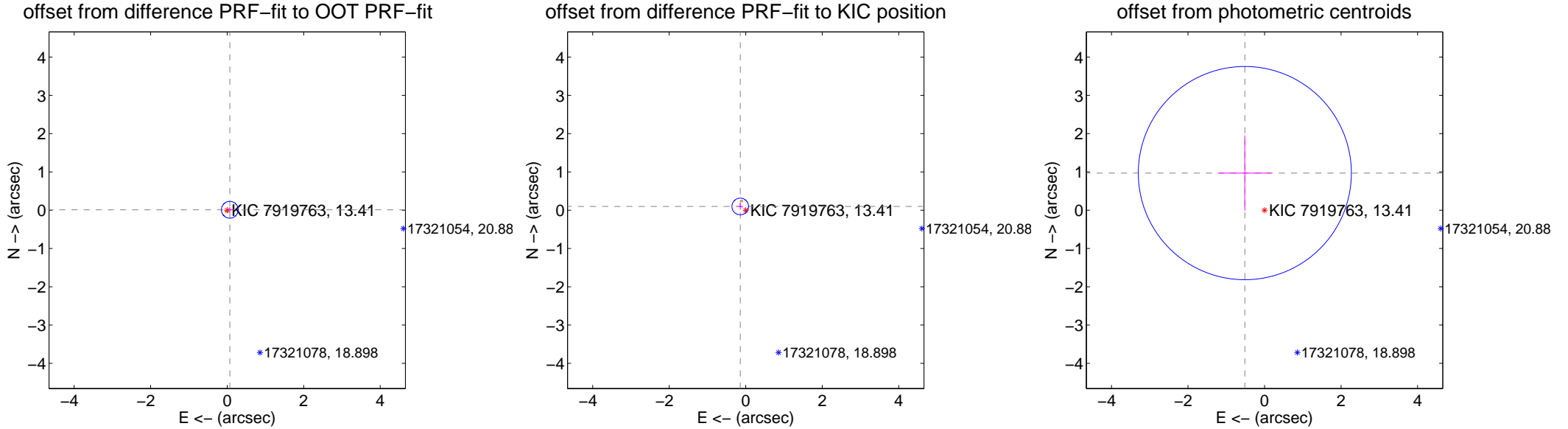
DV Centroid Data

Supplemental centroid analysis for 007919763-02. Kepler magnitude: 13.41. Transit SNR 3.96

There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.28 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.070 ± 0.073	0.96	-0.069 ± 0.072	0.011 ± 0.071
PRF-fit source offset from KIC position	0.173 ± 0.073	2.39	0.143 ± 0.070	0.098 ± 0.083
photometric centroid source offset	1.10 ± 0.93	1.18	0.51 ± 0.69	0.97 ± 0.98

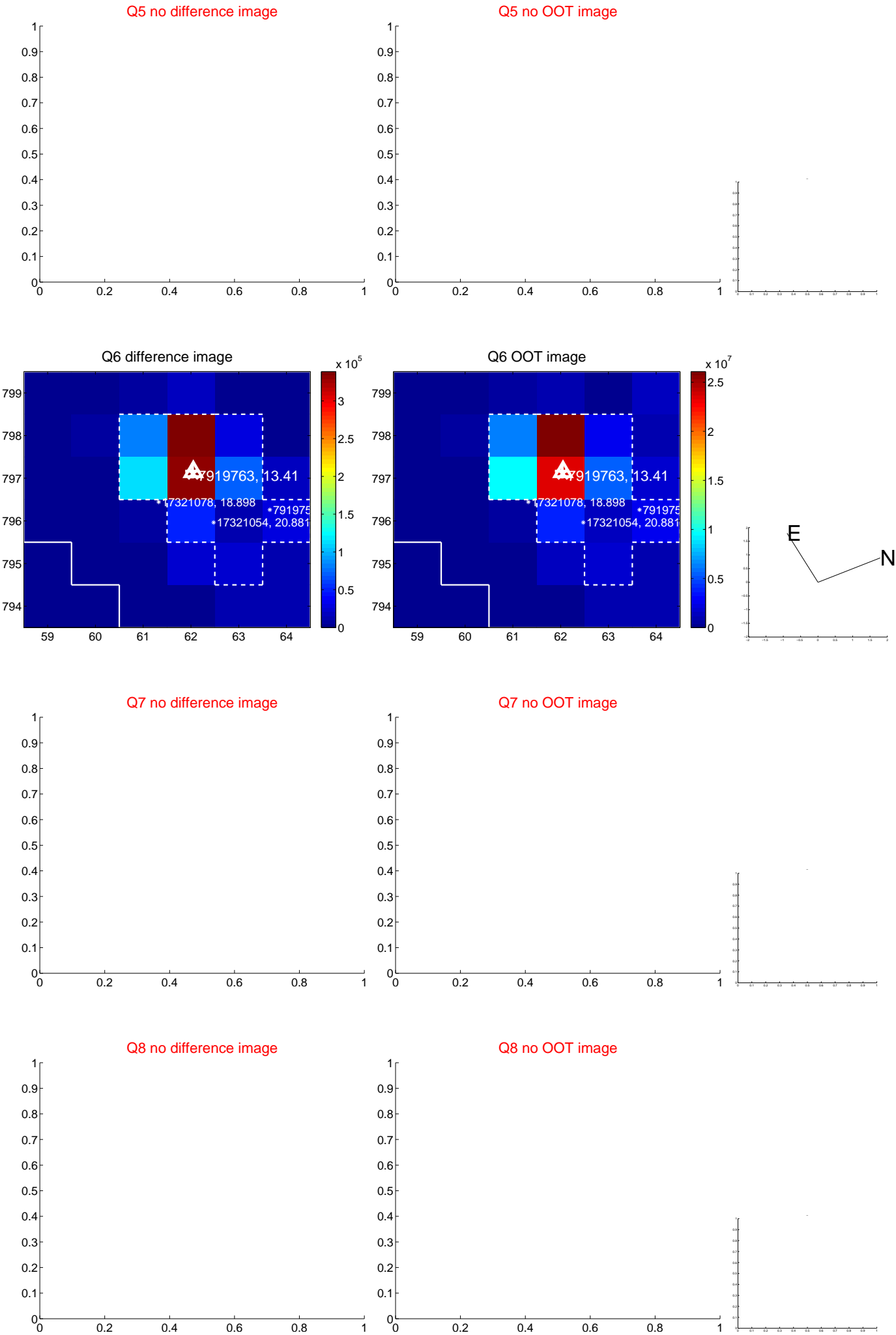


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

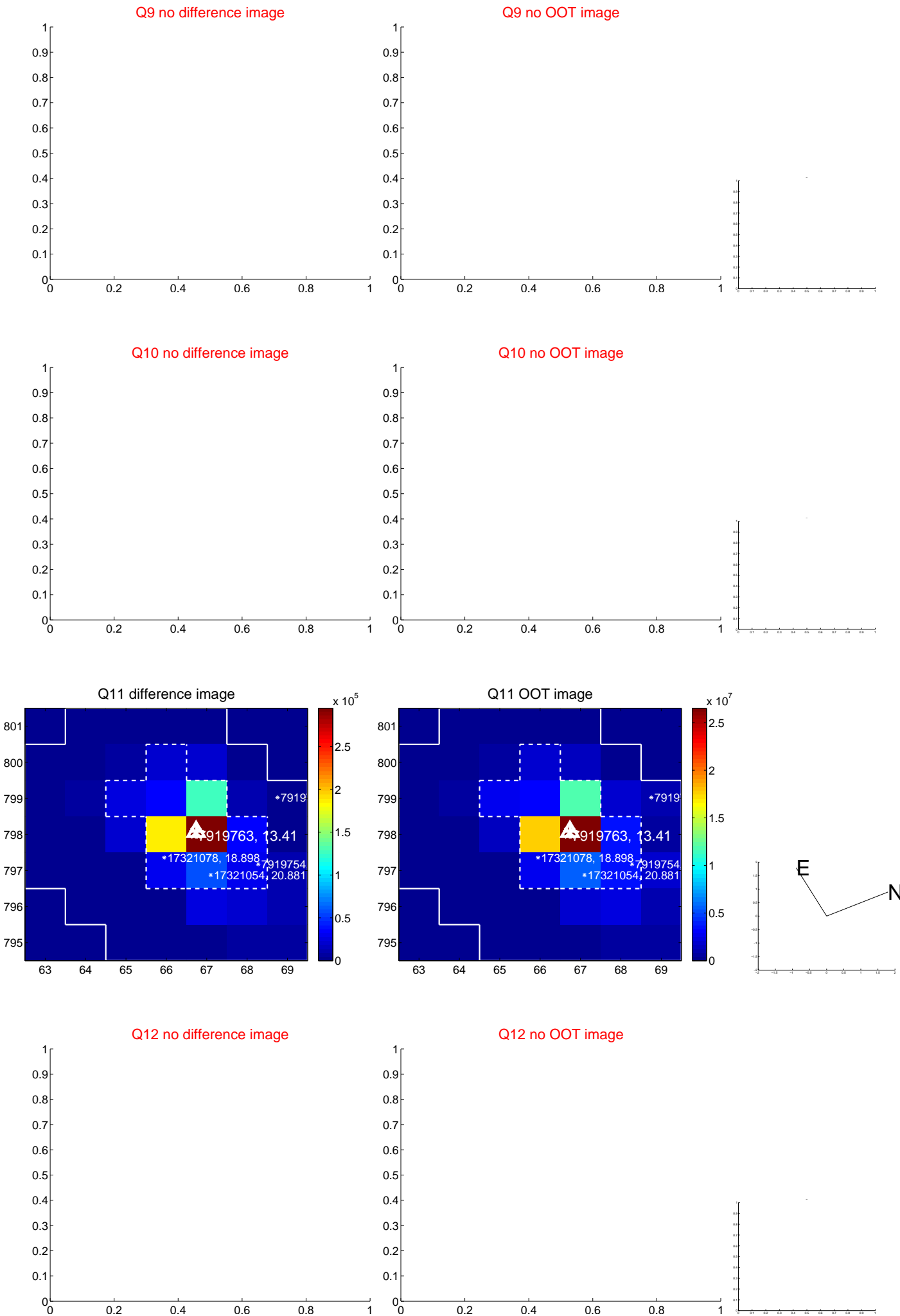
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



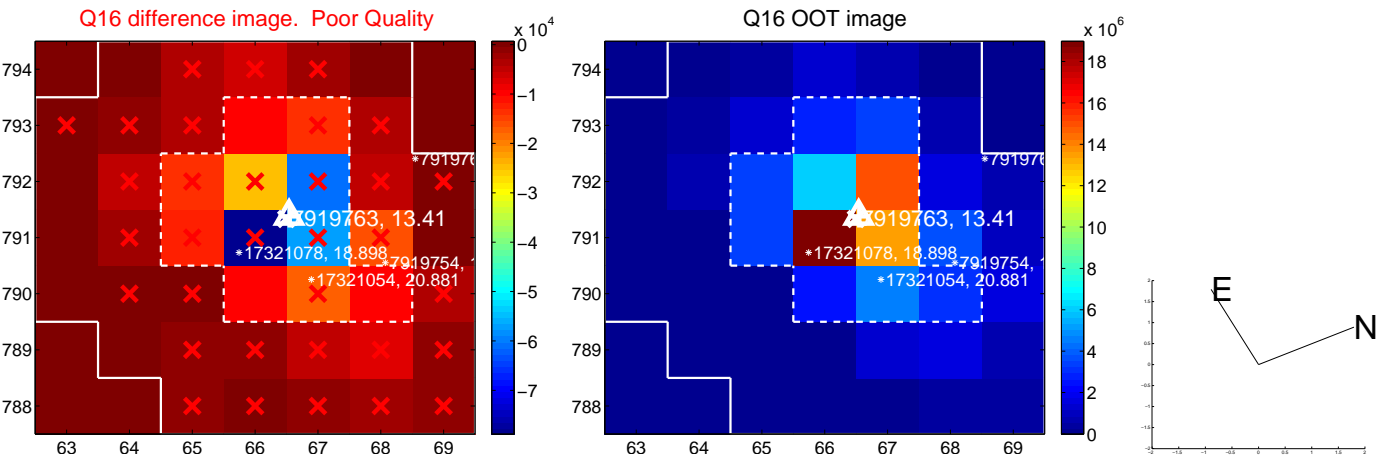
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



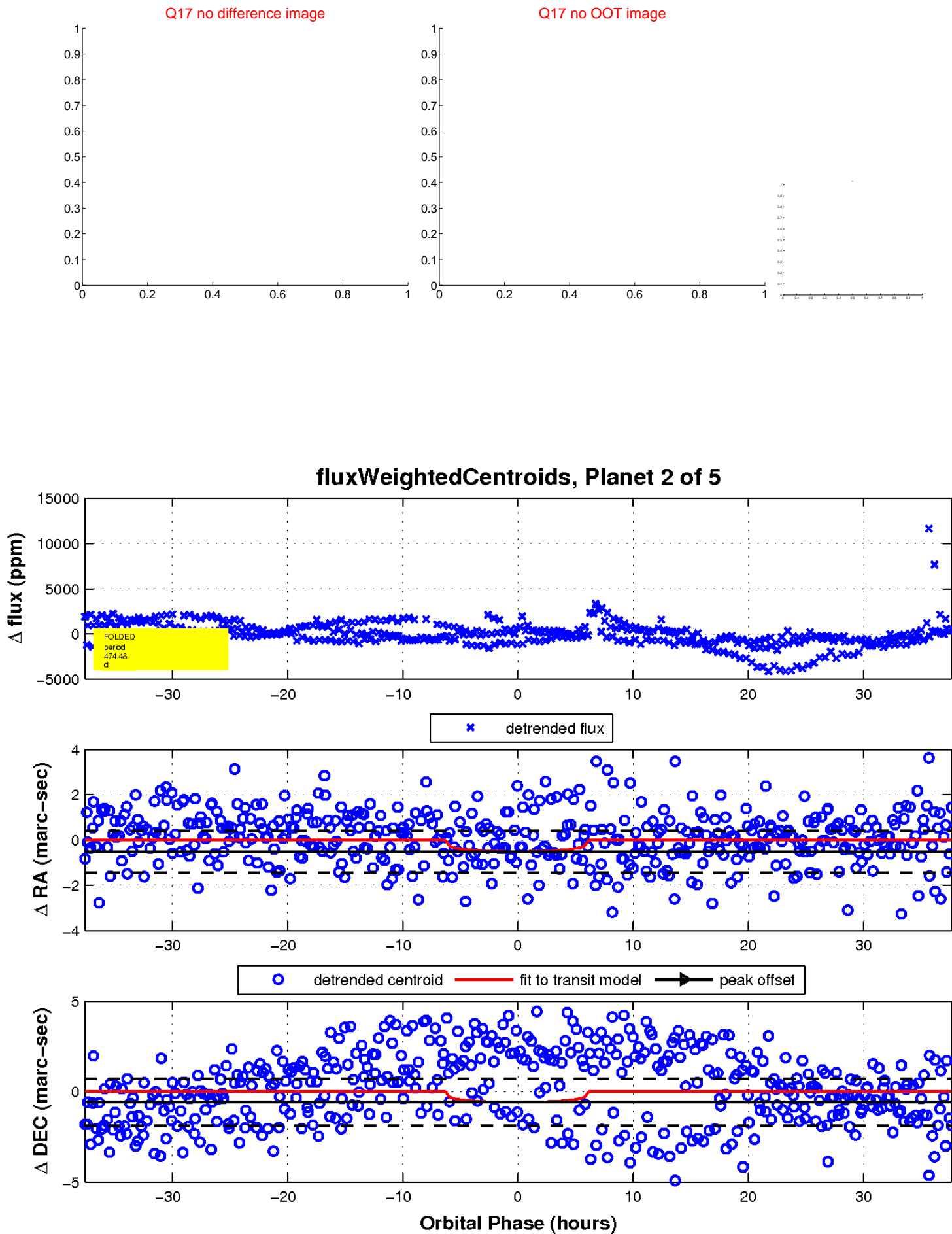
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

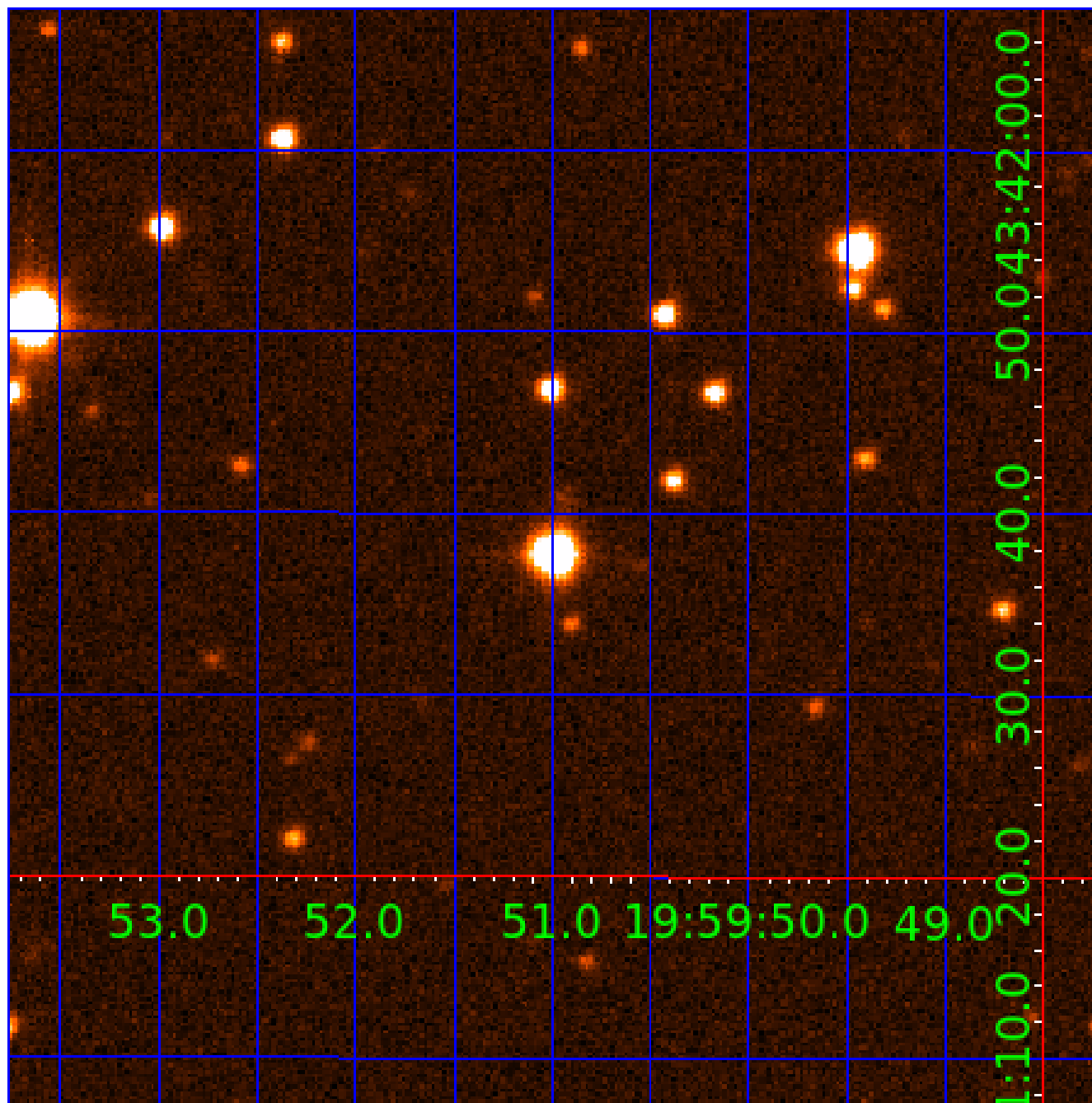


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007919763

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})
007919763-01	OBS	No	273.757919	390.070694	945.7	4.361	16.2	6.3	0.97	5470	2.98	1.26
007919763-02	OBS	No	474.481443	545.037849	963.6	12.546	12.3	4.0	0.97	5470	3.03	0.60
007919763-03	OBS	No	476.162932	405.218182	574.1	15.159	11.5	2.6	0.97	5470	2.35	0.60
007919763-04	OBS	No	417.955389	275.969817	710.3	2.953	11.3	6.5	0.97	5470	2.67	0.72
007919763-05	OBS	No	0.521530	131.904944	455.0	2.000	11.1	-1.0	0.97	5470	2.04	5333.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007919763-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007919763-02	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007919763-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS
007919763-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007919763-05	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS

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

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

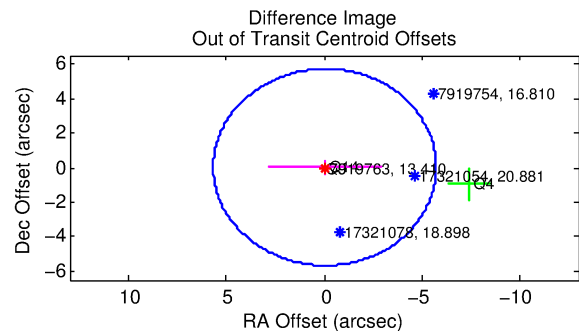
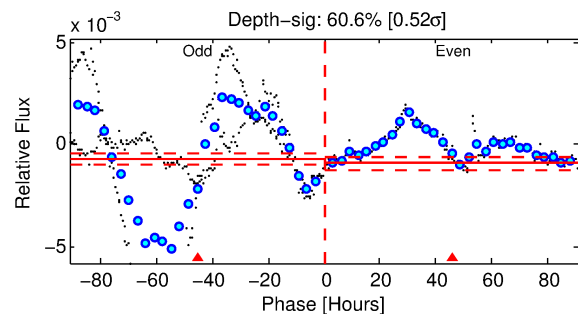
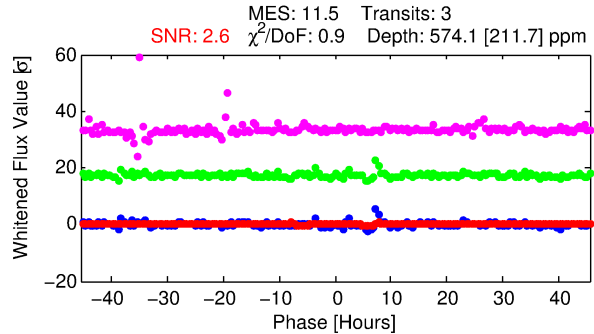
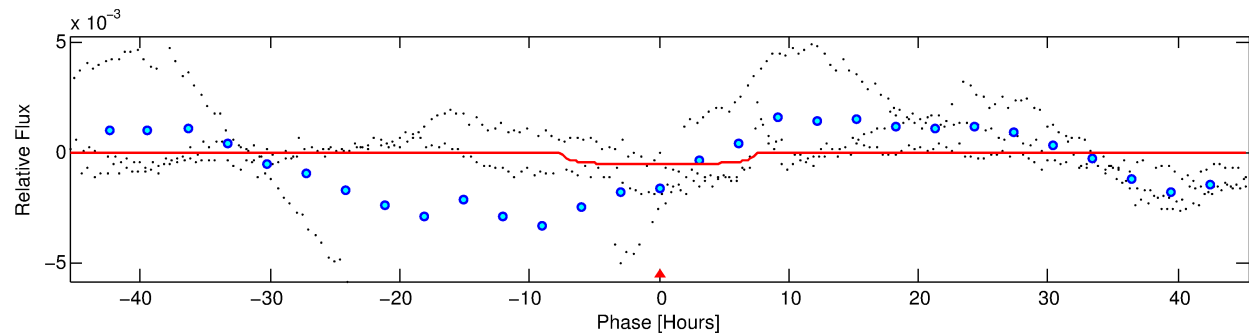
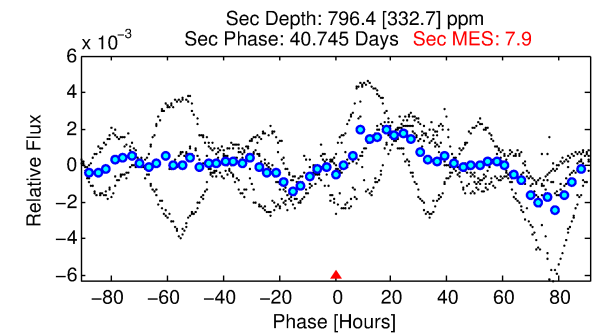
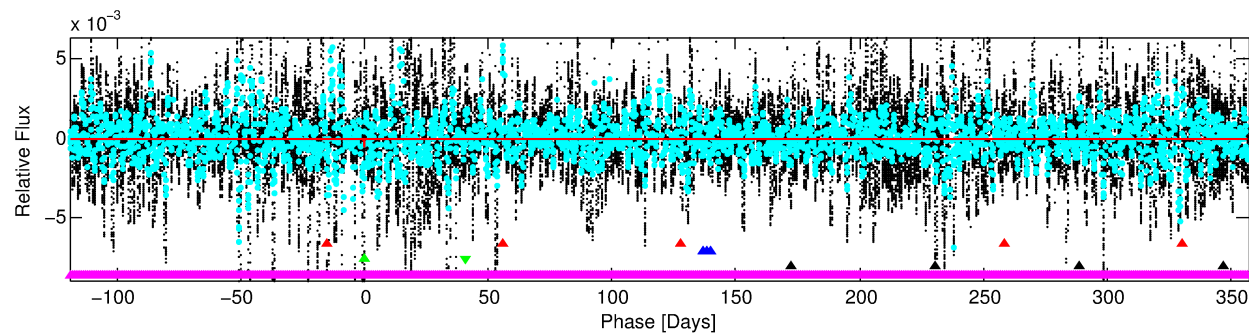
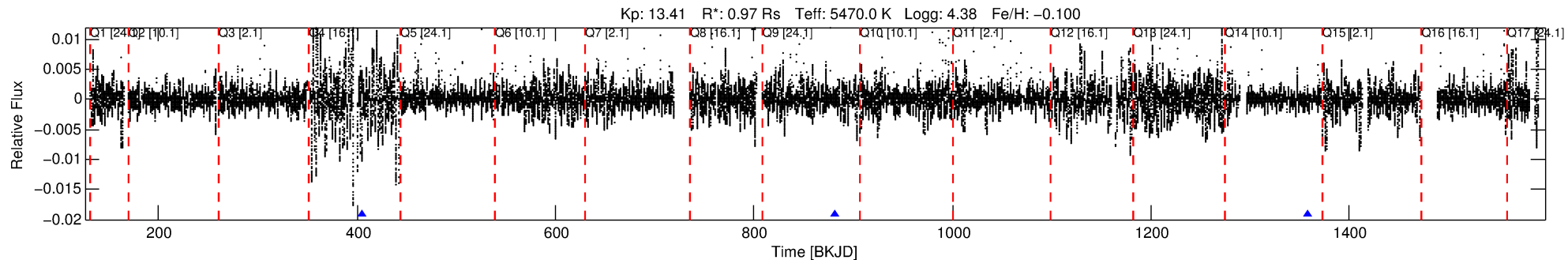
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007919763-03

No Significant Match Found

DV One-Page Summary

KIC: 7919763 Candidate: 3 of 5 Period: 476.163 d



DV Fit Results:

Period = 476.16293 [0.01038] d
Epoch = 405.2182 [0.0125] BKJD
Rp/R* = 0.0222 [0.0161]
a/R* = 217.48 [629.01]
b = 0.47 [4.78]
Seff = 0.60 [0.28]
Teq = 225 [26] K
Rp = 2.35 [1.91] Re
a = 1.1196 [0.3456] AU
Ag = 99086.73 [156124.24] [0.63σ]
Teffp = 6162 [2331] K [2.55σ]

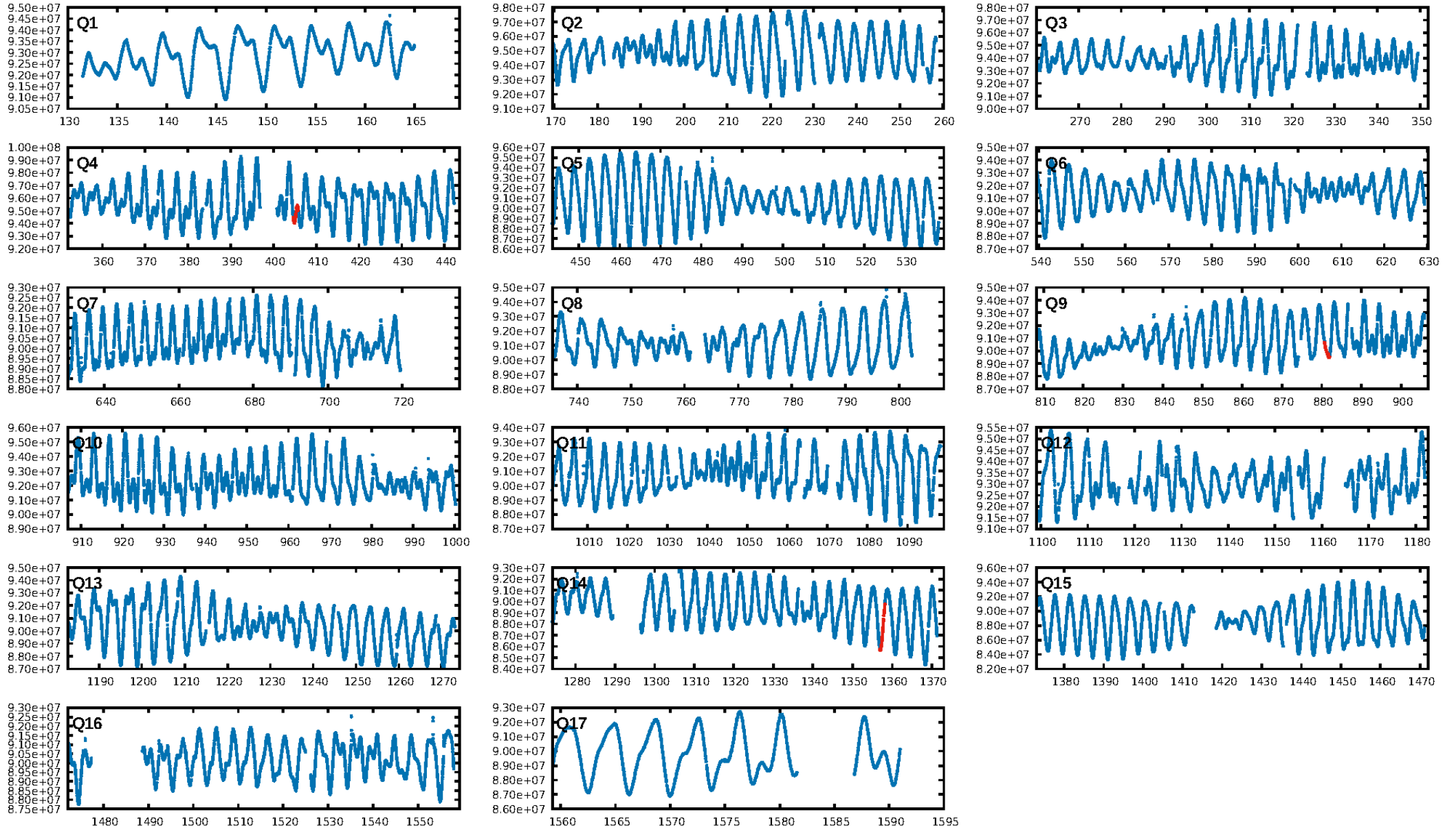
DV Diagnostic Results:

ShortPeriod-sig: 96.0% [2.05σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 40.7%
ModelChiSquareGof-sig: 98.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.8697
Centroid-sig: 73.2%
Centroid-so: 0.996 arcsec [0.59σ]
OotOffset-rm: 0.038 arcsec [0.02σ]
KicOffset-rm: 0.067 arcsec [0.05σ]
OotOffset-st: 1/0/1/1 [3]
KicOffset-st: 1/0/1/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 0.00 [0/3]

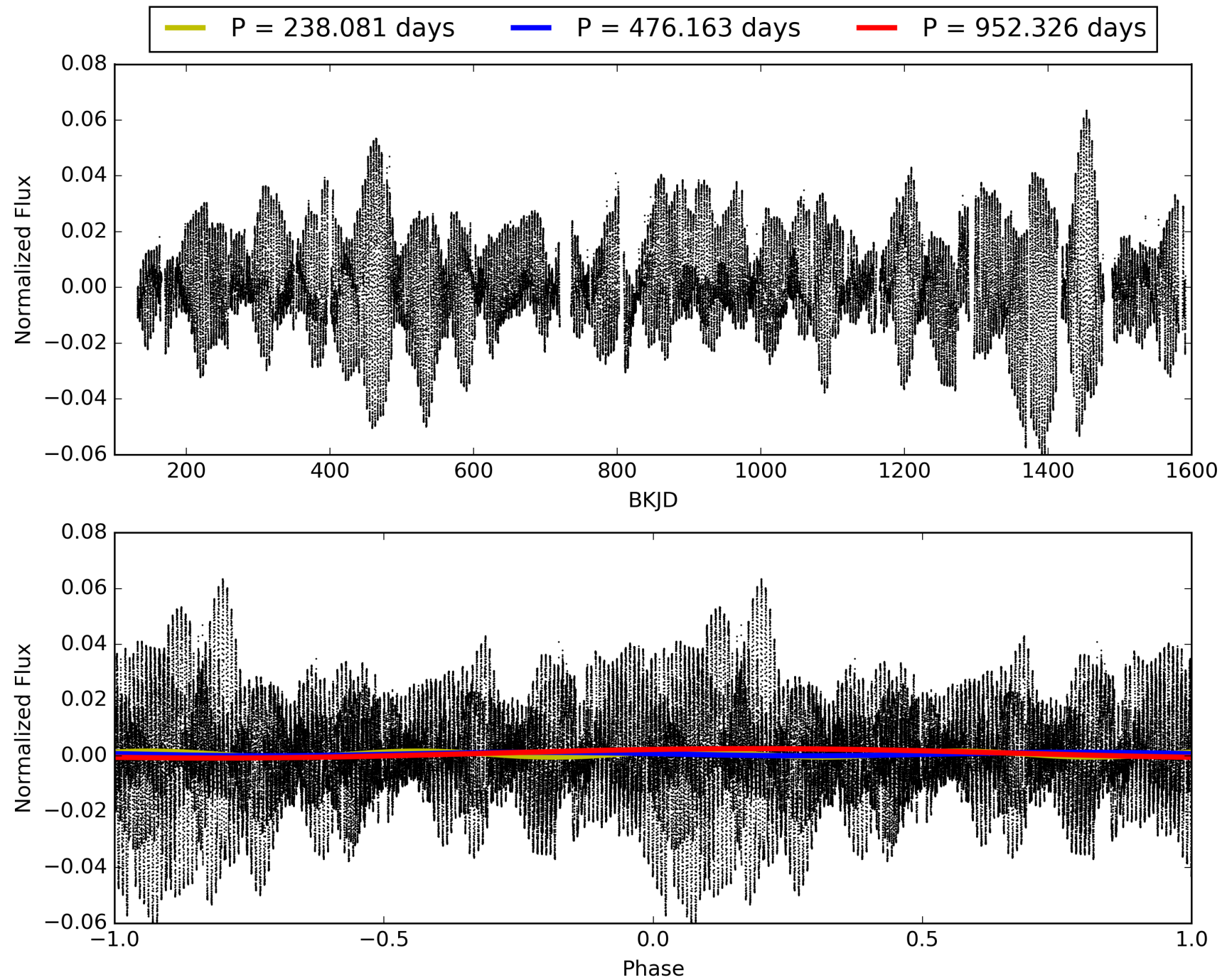
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:25:08 Z

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

TCE 007919763-03, PDC Light Curves

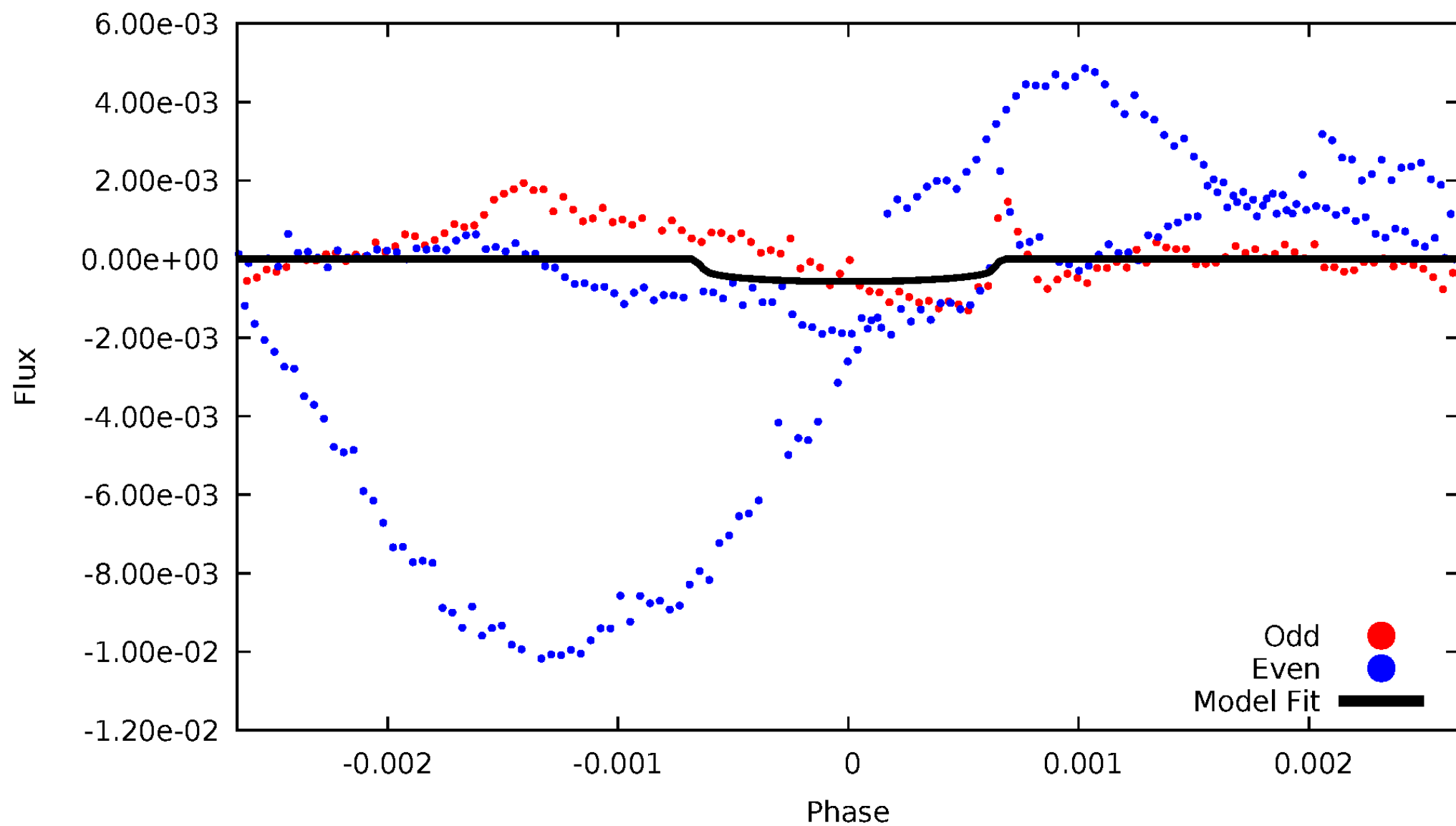


TCE 007919763-03



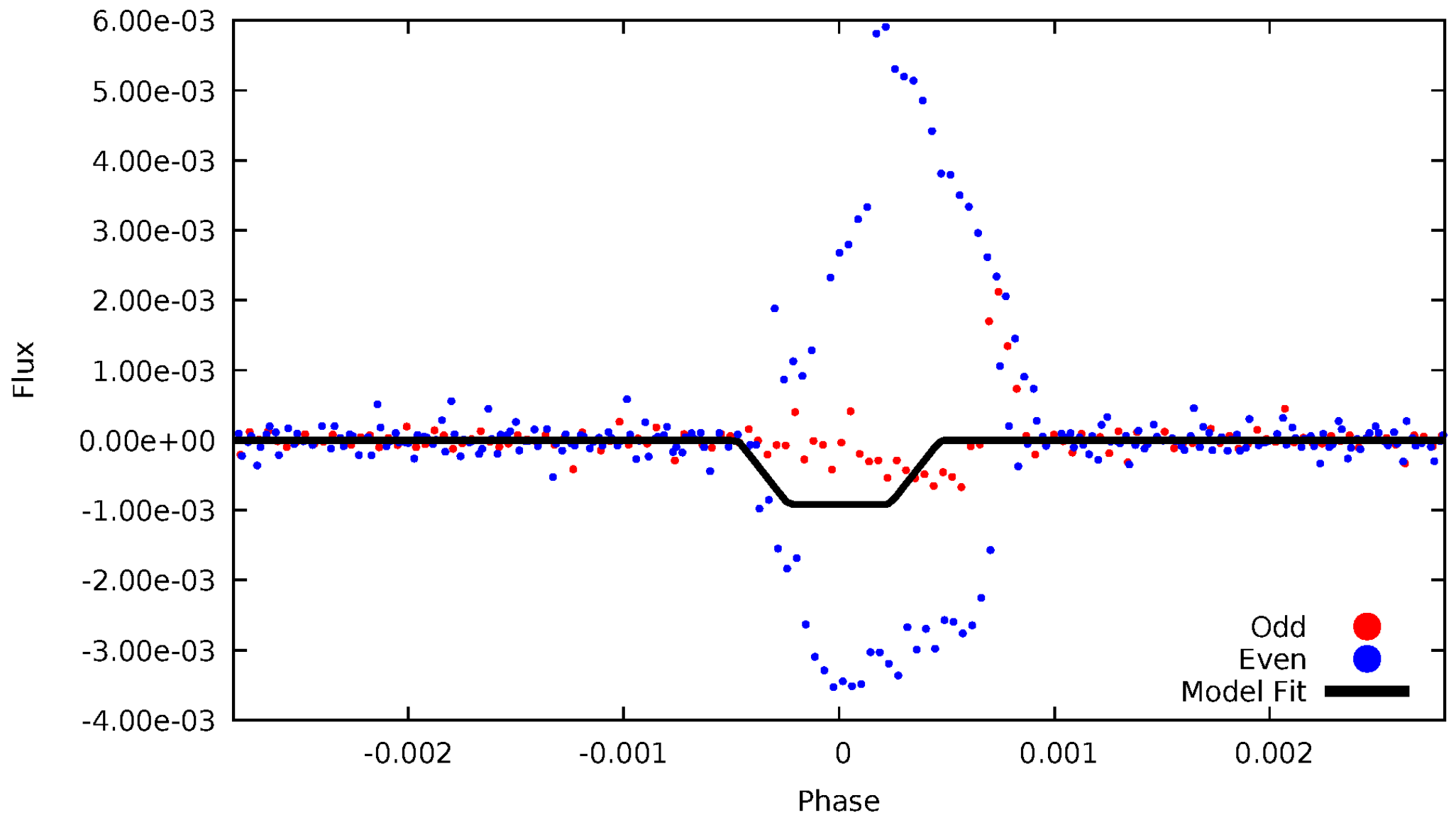
DV Odd/Even

TCE 007919763-03



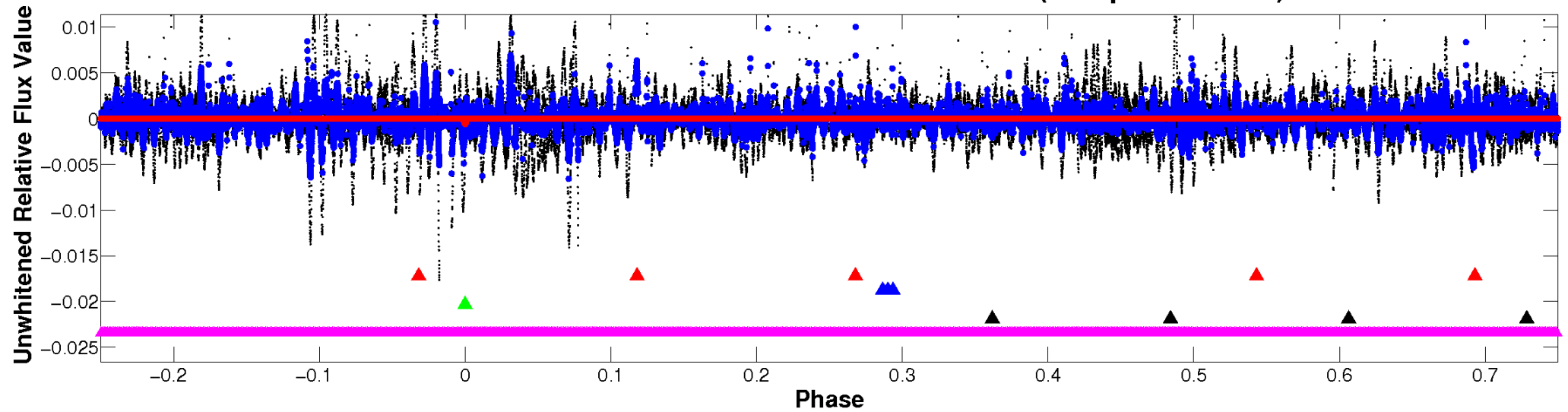
ALT Odd/Even

TCE 007919763-03

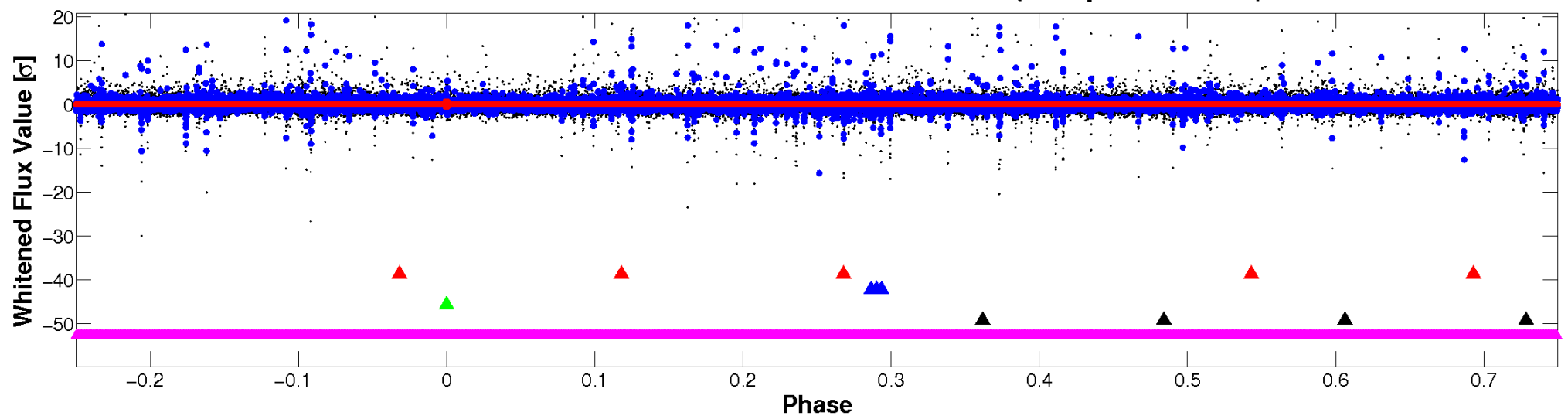


Non-Whitened Vs. Whitened Light Curve

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

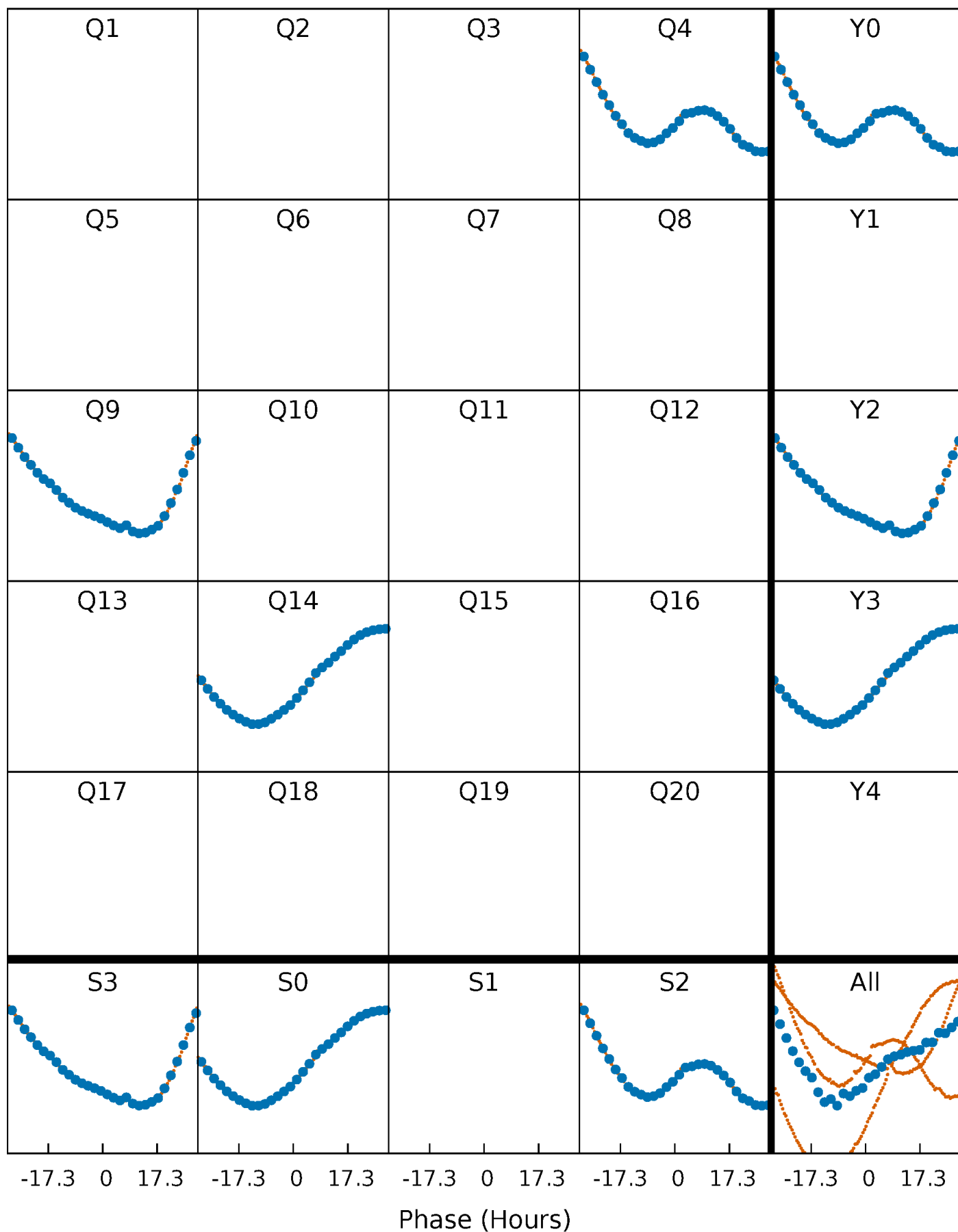


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



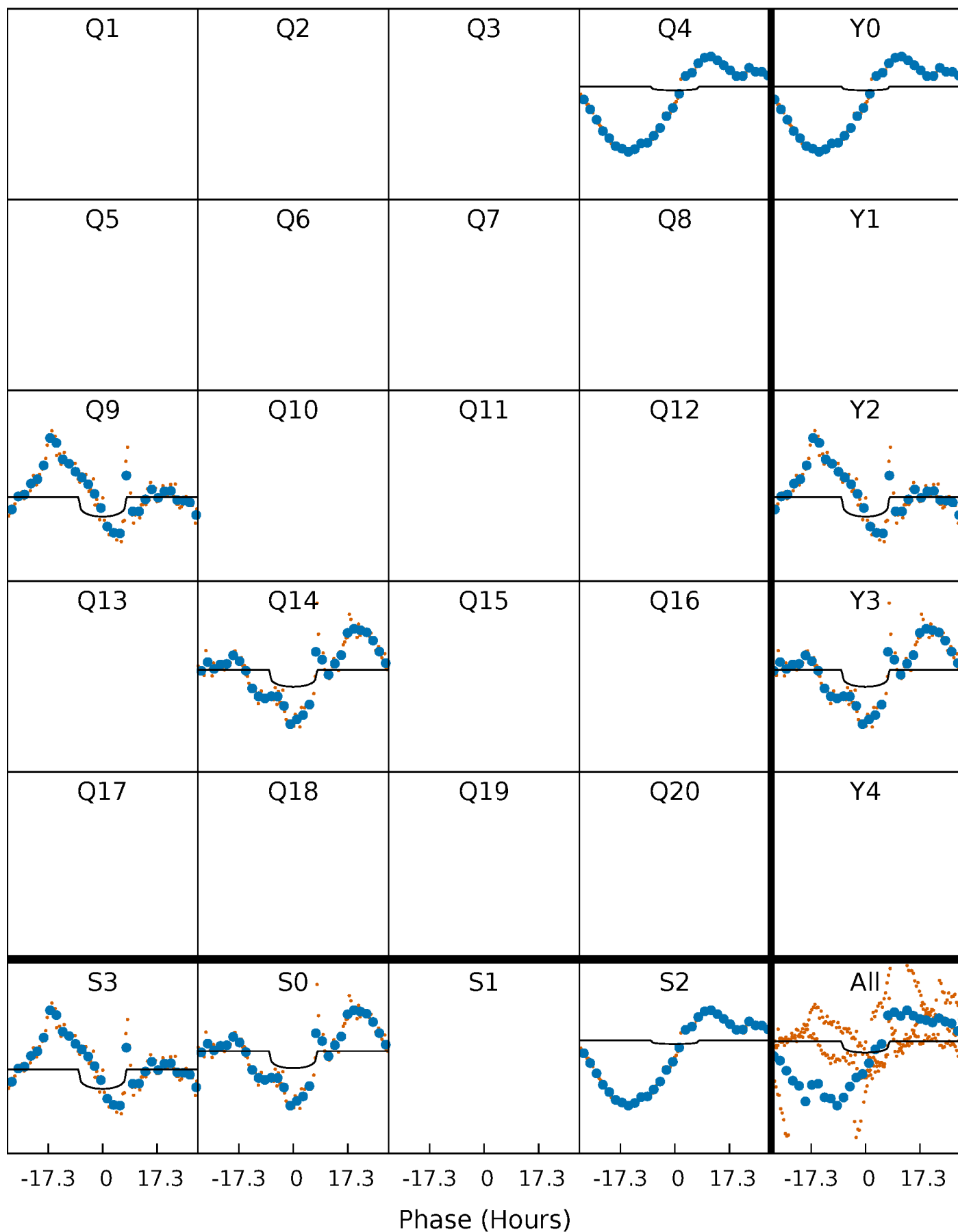
PDC Quarter-Phased Transit Curves

TCE 007919763-03 P=476.162932 Days $T_0=405.218182$ (BKJD)



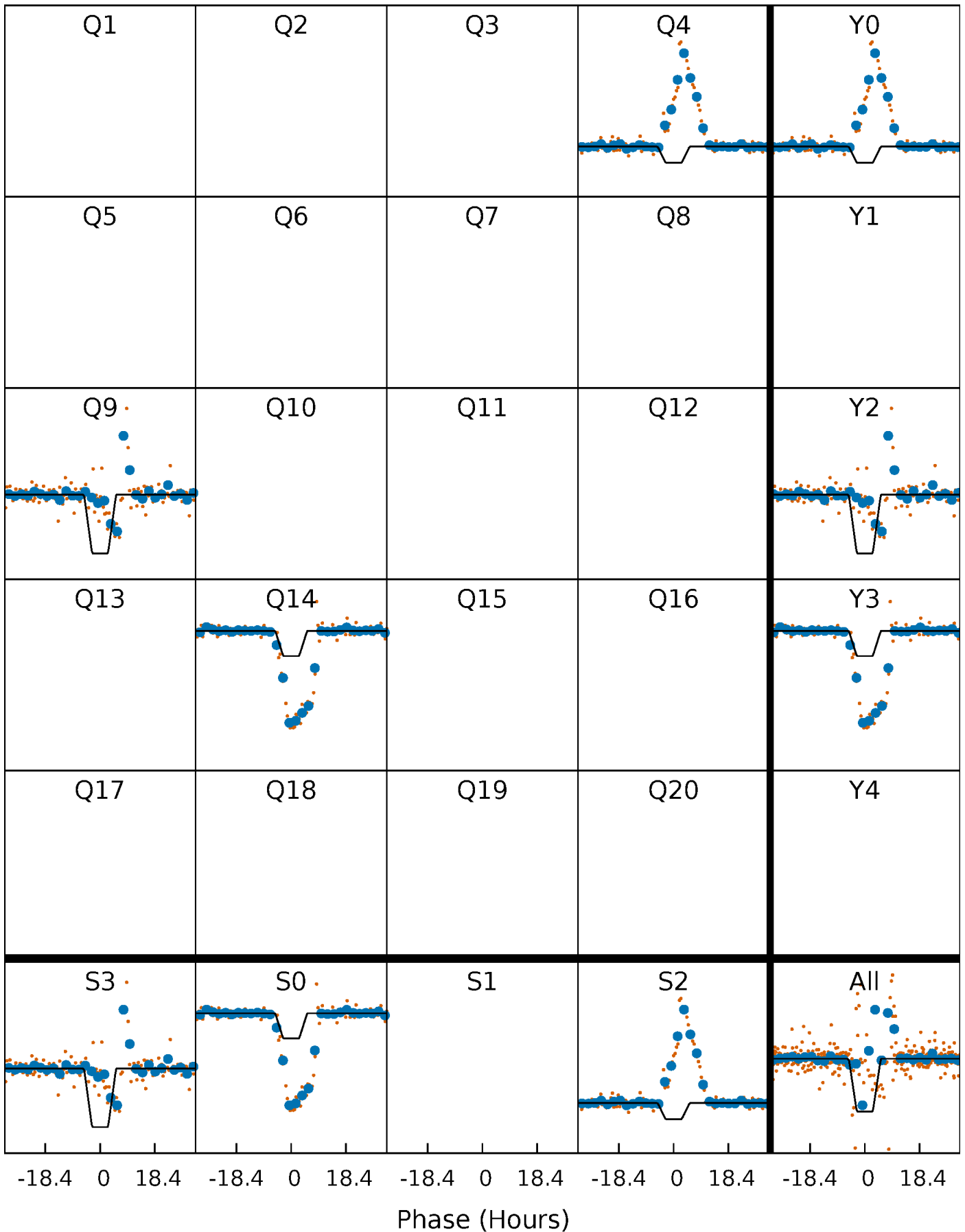
DV Quarter-Phased Transit Curves

TCE 007919763-03 $P=476.162932$ Days $T_0=405.218182$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

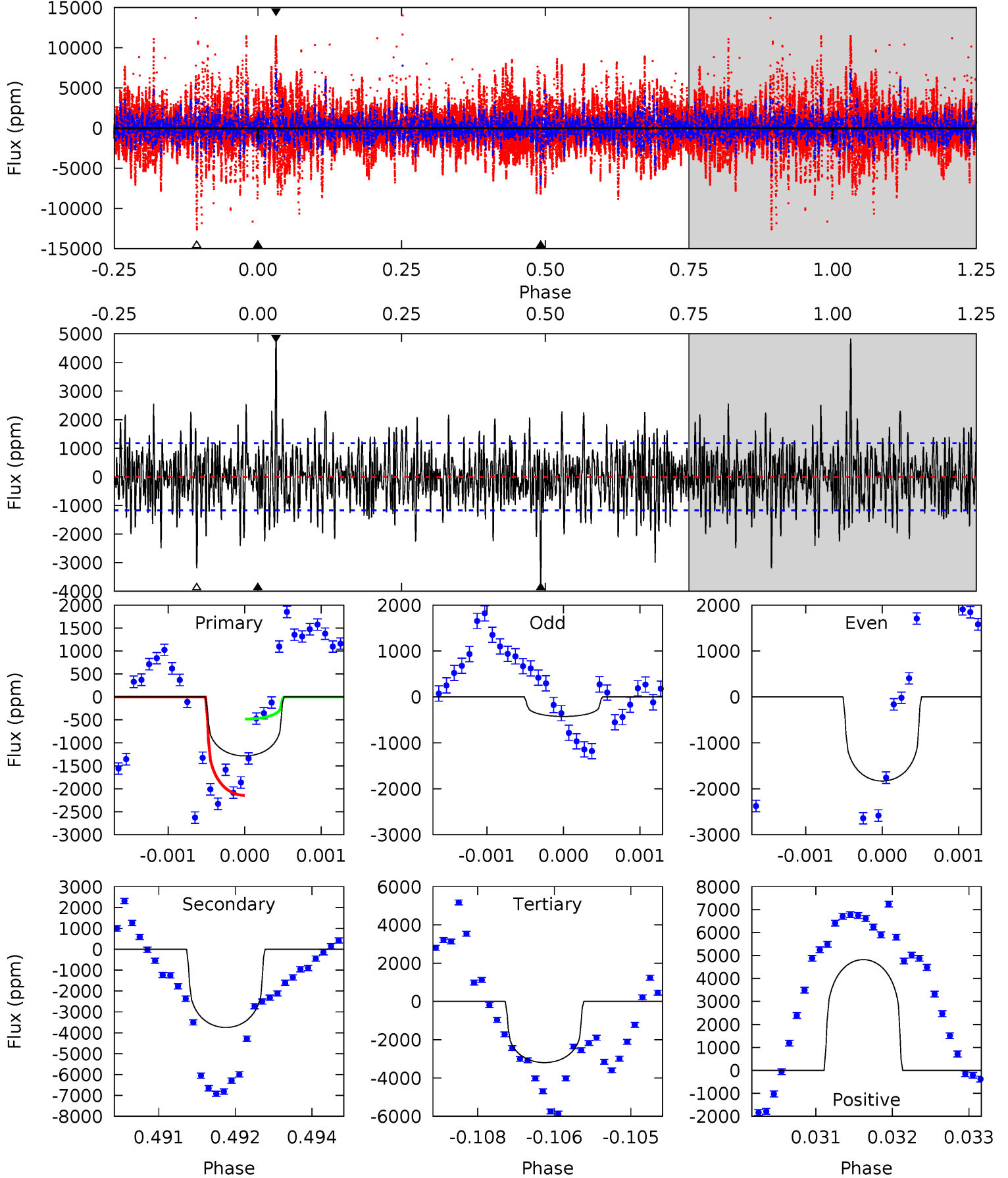
TCE 007919763-03 P=476.142815 Days $T_0=405.216214$ (BKJD)



DV Model-Shift Uniqueness Test

007919763-03, P = 476.162932 Days, E = 405.218182 Days

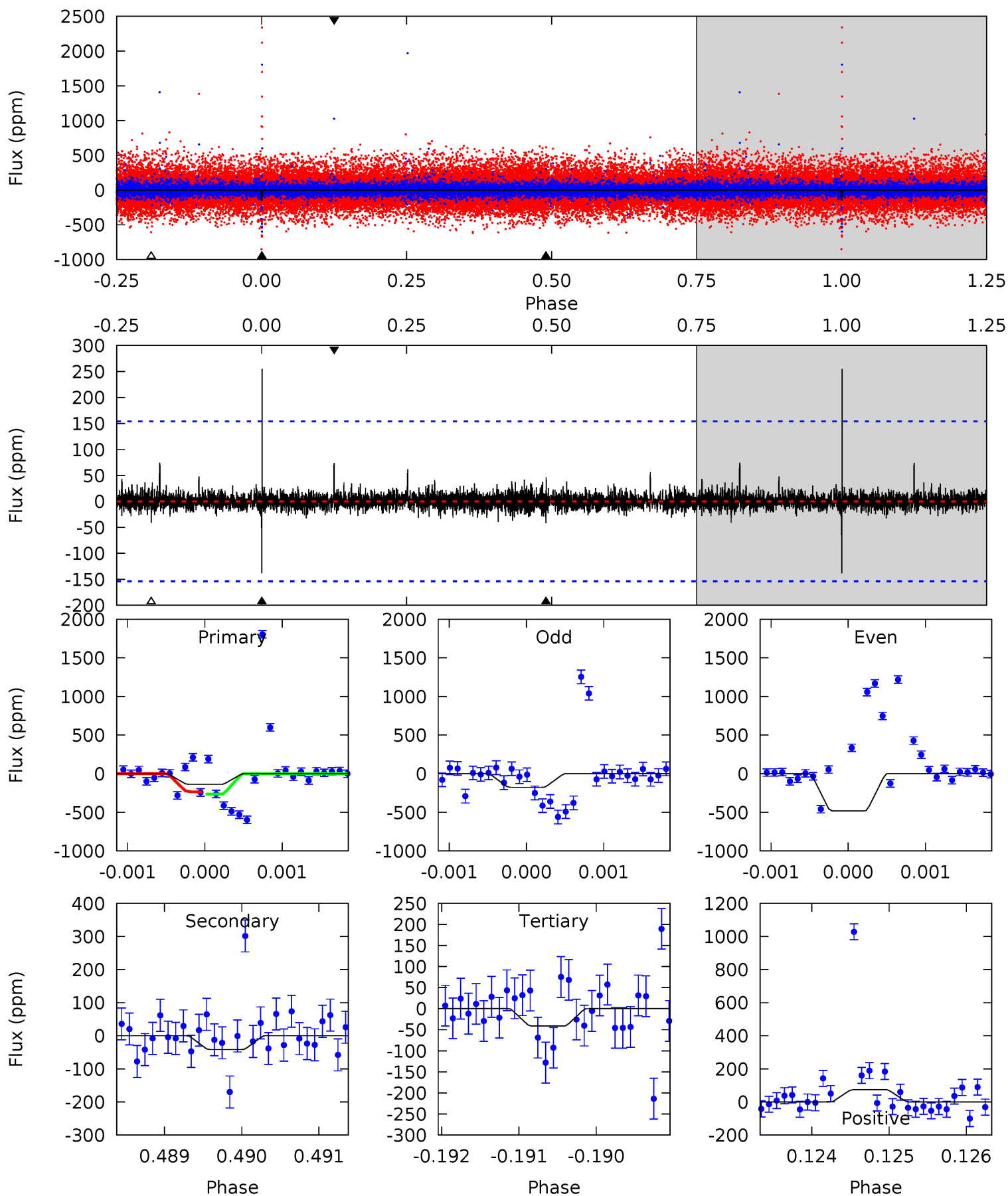
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.92	17.3	14.7	22.2	5.40	3.21	3.76	-8.80	-16.3	2.54	-4.96	3.02	0.93	0.56	3.86



Alt Model-Shift Uniqueness Test

007919763-03, P = 476.142815 Days, E = 405.216214 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.91	1.48	1.46	2.63	5.46	3.30	0.32	3.45	2.28	0.02	-1.15	7.27	-0.28	0.65	0



Stellar Parameters For KIC 007919763

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5470^{+164}_{-147}	$4.381^{+0.168}_{-0.252}$	$-0.100^{+0.300}_{-0.250}$	$0.970^{+0.350}_{-0.175}$	$0.825^{+0.121}_{-0.070}$	$1.273^{+1.014}_{-0.749}$
	+3%/-3%	+4%/-6%	+300%/-250%	+36%/-18%	+15%/-8%	+80%/-59%
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 007919763-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-3745 ± 217	$2.61^{+1.86}_{-1.56}$	317^{+28}_{-20}	9237^{+11141}_{-2440}	$387982^{+1971391}_{-252997}$
Alt.	-42 ± 28	$3.36^{+1.90}_{-1.60}$	316^{+28}_{-20}	3035^{+732}_{-433}	2234^{+6350}_{-1610}

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

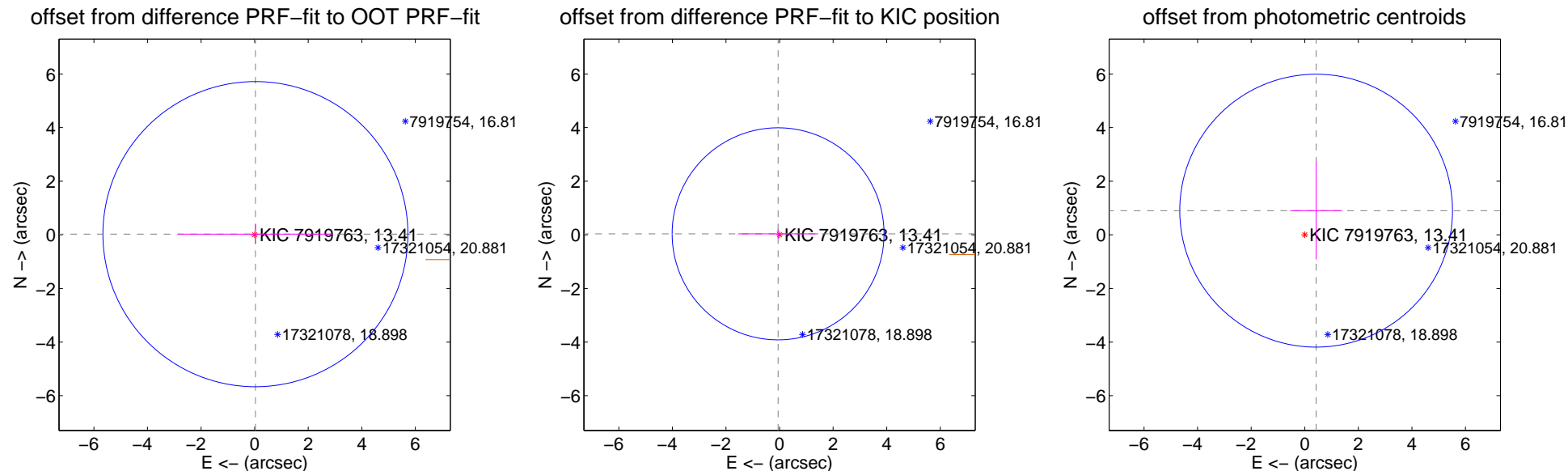
DV Centroid Data

Supplemental centroid analysis for 007919763-03. Kepler magnitude: 13.41. Transit SNR 2.59

There are 2 quarters with good PRF difference image offsets

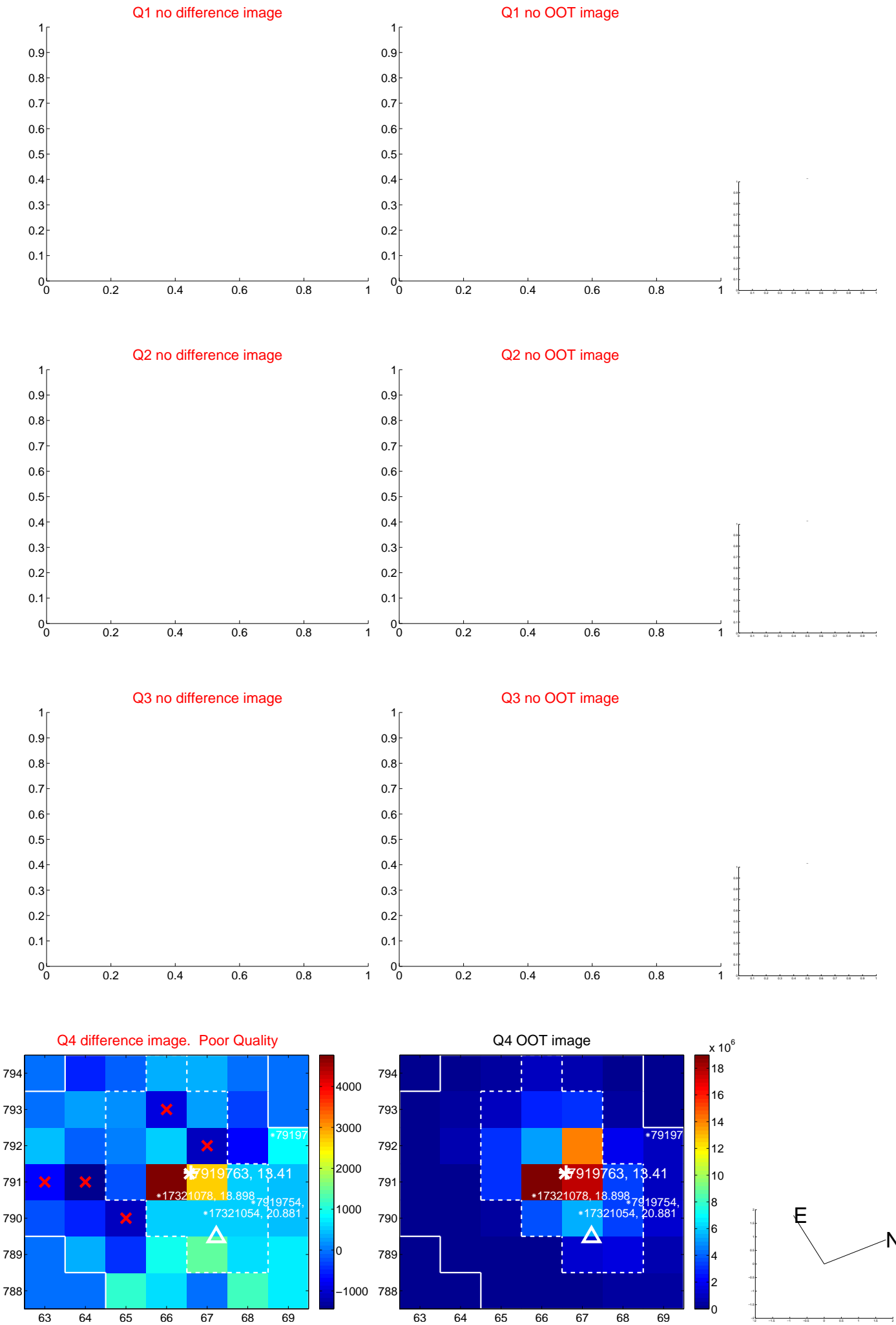
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.038 ± 1.897	0.02	-0.028 ± 2.884	0.025 ± 0.376
PRF-fit source offset from KIC position	0.067 ± 1.318	0.05	0.055 ± 1.494	0.038 ± 0.174
photometric centroid source offset	1.00 ± 1.70	0.59	-0.42 ± 0.97	0.90 ± 1.82



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.

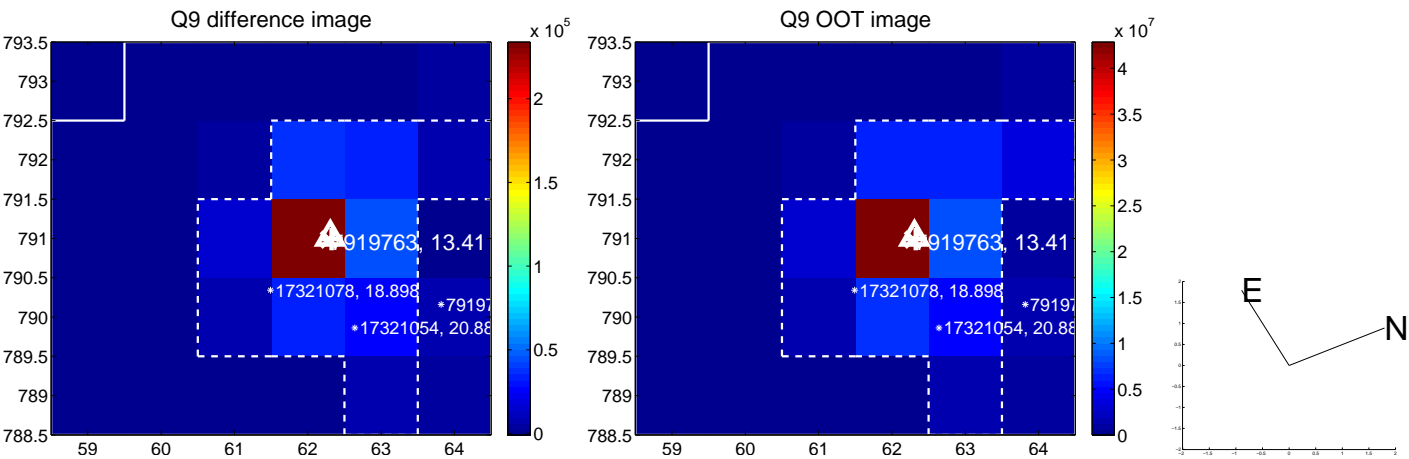
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.

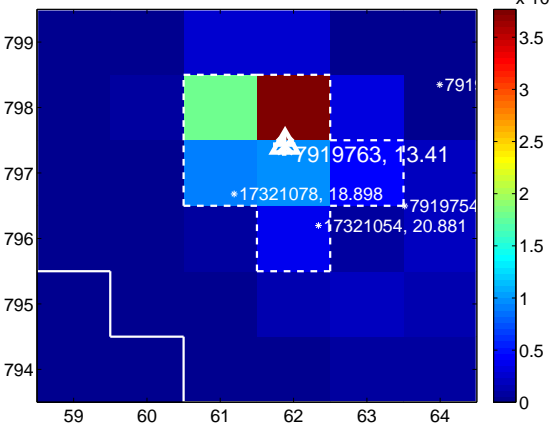
Q13 no difference image



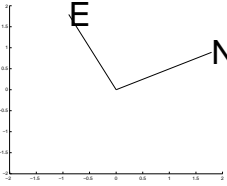
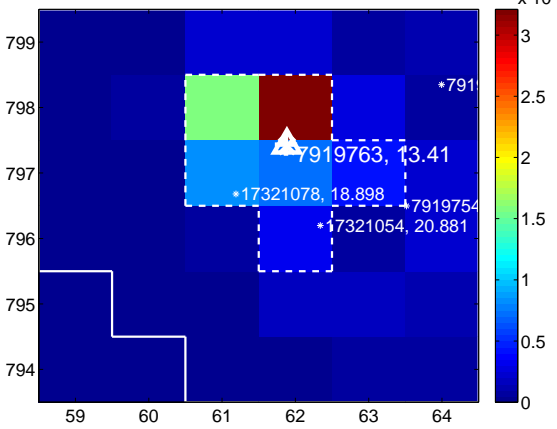
Q13 no OOT image



Q14 difference image



Q14 OOT image



Q15 no difference image



Q15 no OOT image



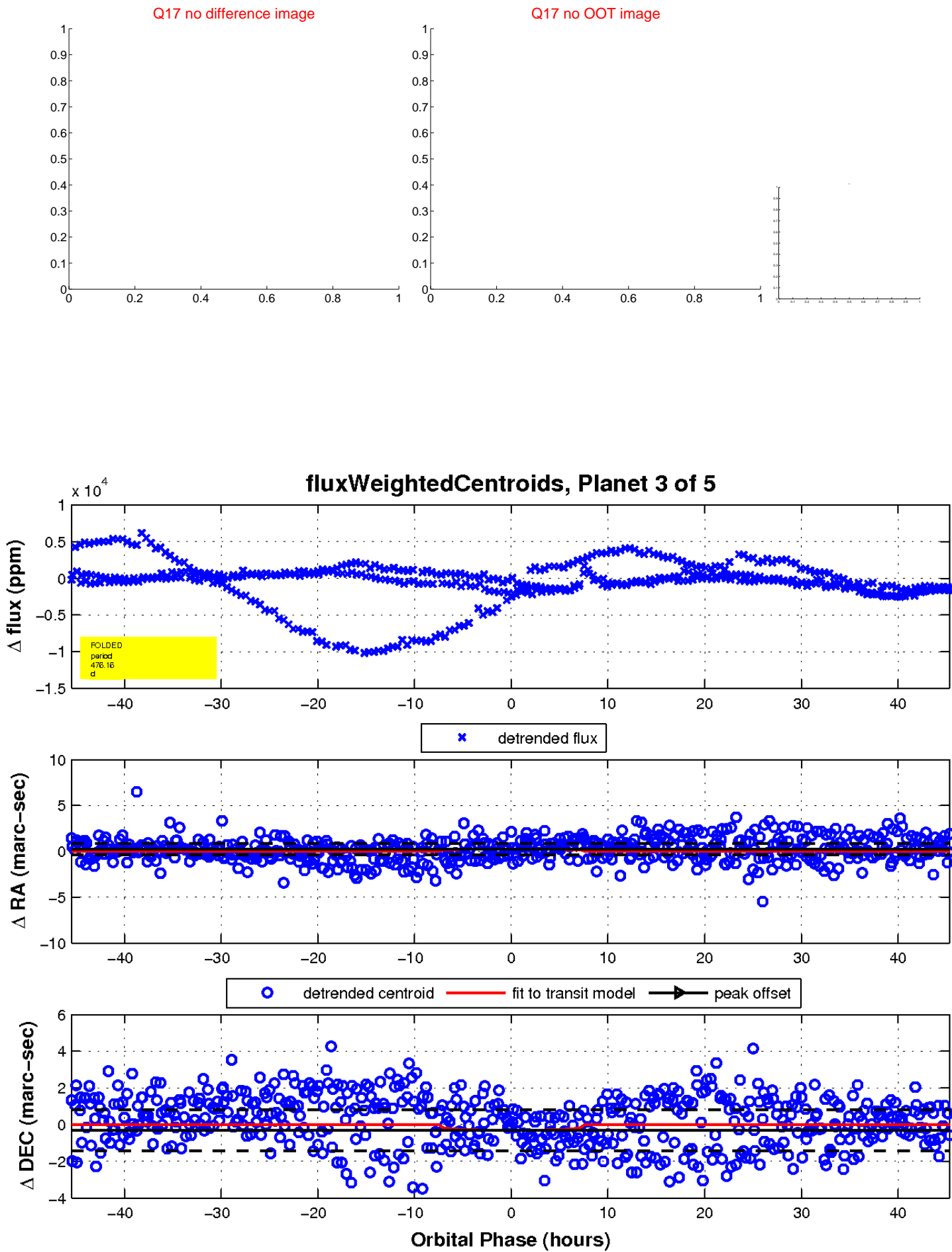
Q16 no difference image



Q16 no OOT image

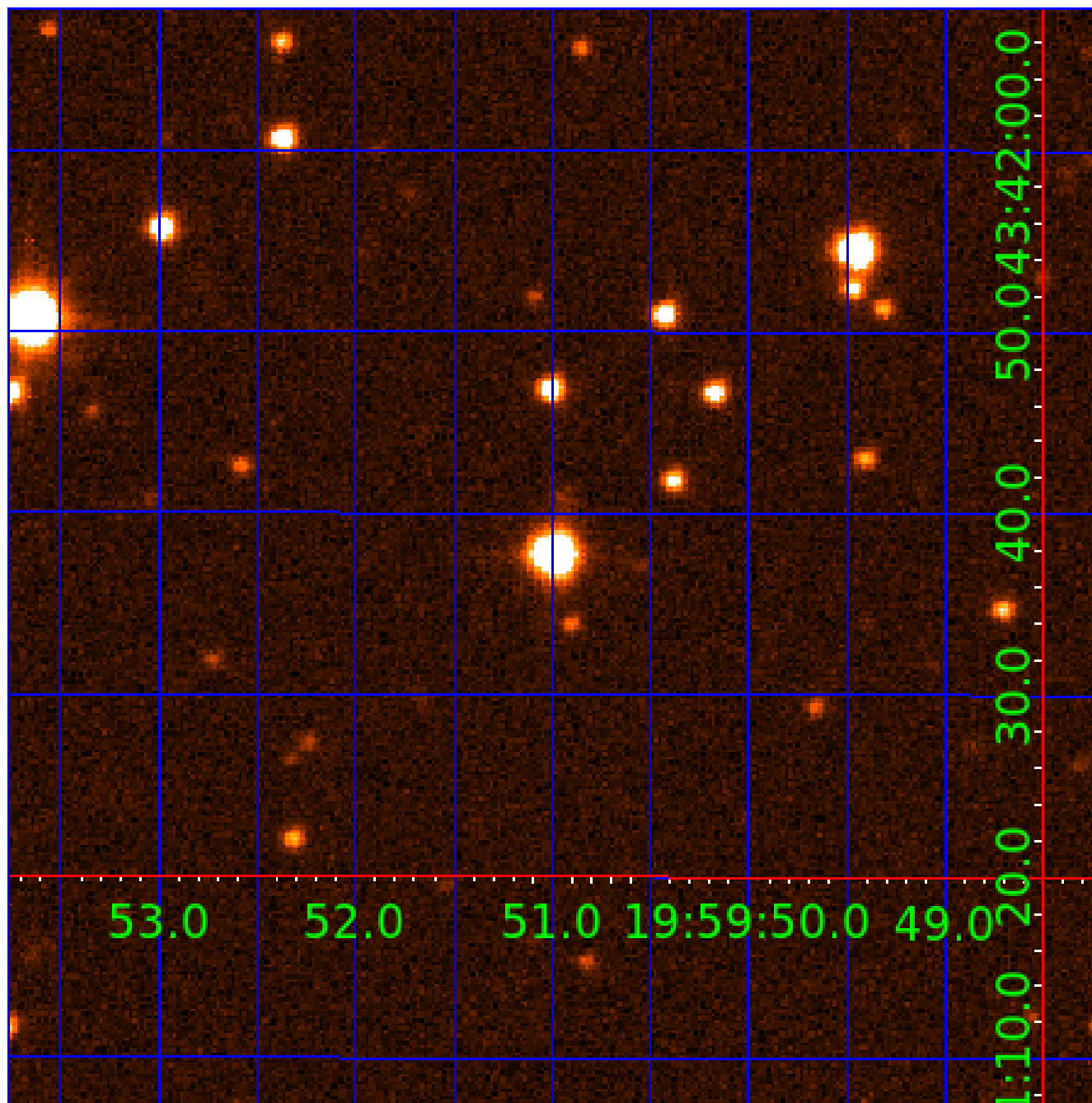


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007919763

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})
007919763-01	OBS	No	273.757919	390.070694	945.7	4.361	16.2	6.3	0.97	5470	2.98	1.26
007919763-02	OBS	No	474.481443	545.037849	963.6	12.546	12.3	4.0	0.97	5470	3.03	0.60
007919763-03	OBS	No	476.162932	405.218182	574.1	15.159	11.5	2.6	0.97	5470	2.35	0.60
007919763-04	OBS	No	417.955389	275.969817	710.3	2.953	11.3	6.5	0.97	5470	2.67	0.72
007919763-05	OBS	No	0.521530	131.904944	455.0	2.000	11.1	-1.0	0.97	5470	2.04	5333.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007919763-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007919763-02	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007919763-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS
007919763-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007919763-05	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS

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

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

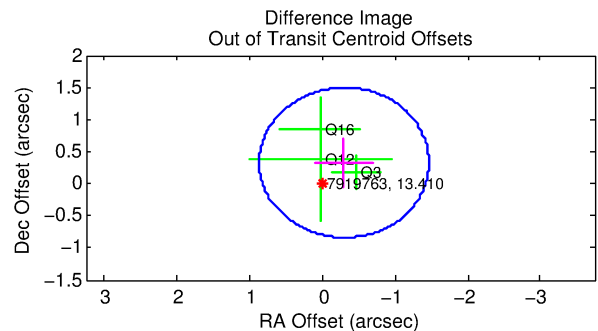
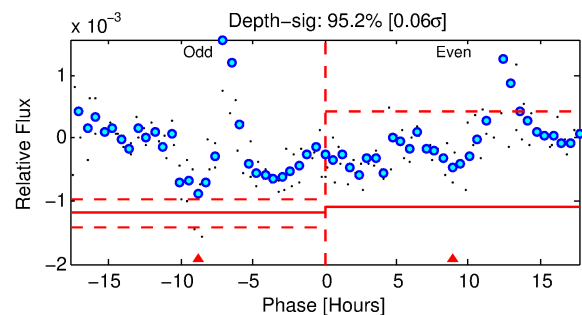
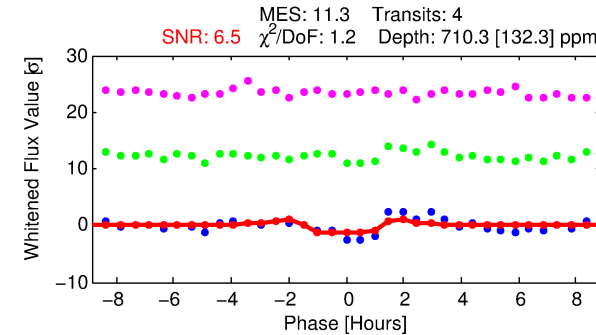
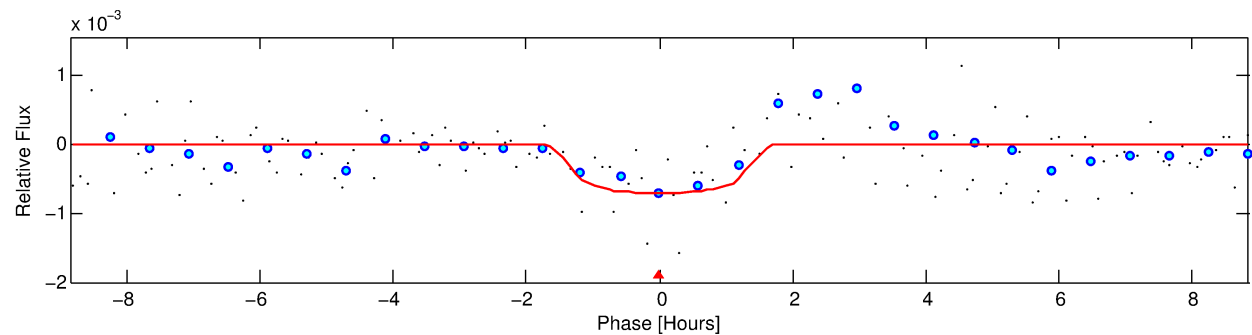
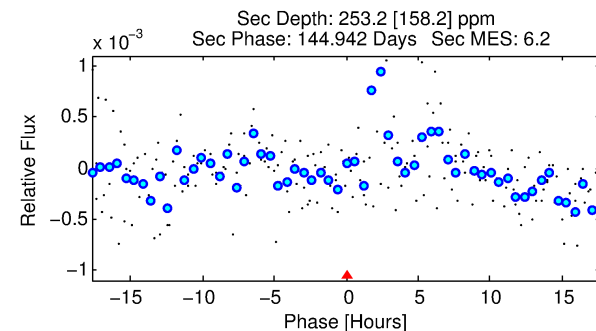
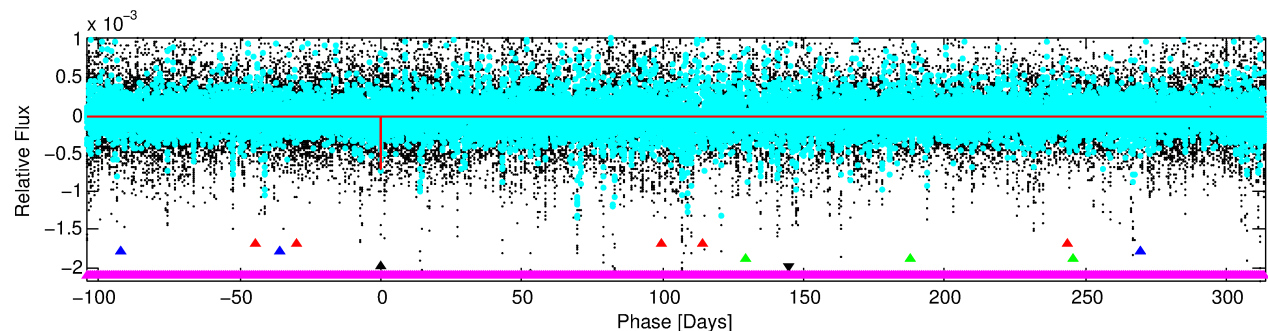
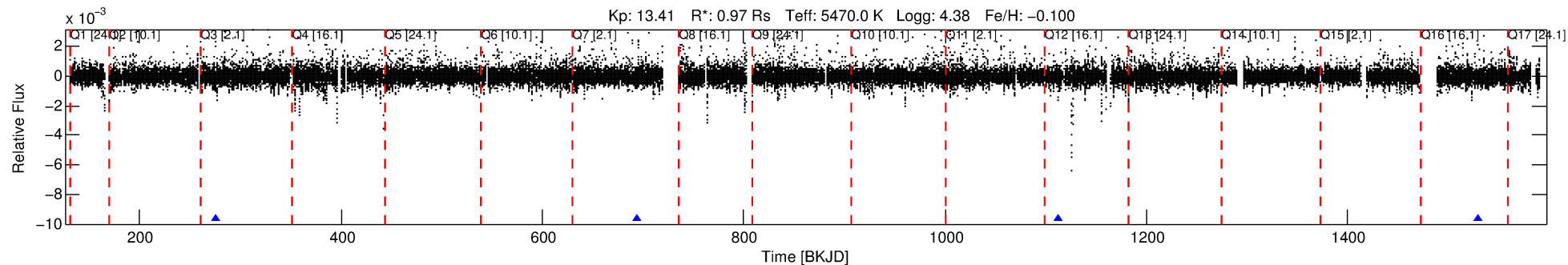
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007919763-04

No Significant Match Found

DV One-Page Summary

KIC: 7919763 Candidate: 4 of 5 Period: 417.955 d



DV Fit Results:

Period = 417.95539 [0.00377] d
Epoch = 275.9698 [0.0071] BKJD
Rp/R* = 0.0252 [0.0551]
a/R* = 923.49 [8047.60]
b = 0.57 [10.57]
Seff = 0.72 [0.34]
Teq = 235 [28] K
Rp = 2.67 [5.91] Re
a = 1.0264 [0.3168] AU
Ag = 20645.37 [91688.20] [0.23σ]
Teffp = 4348 [4804] K [0.86σ]

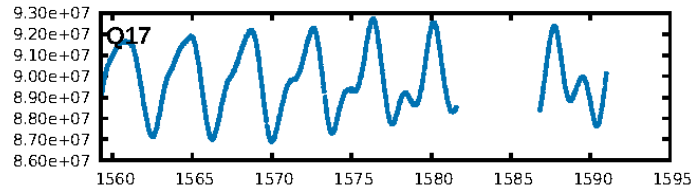
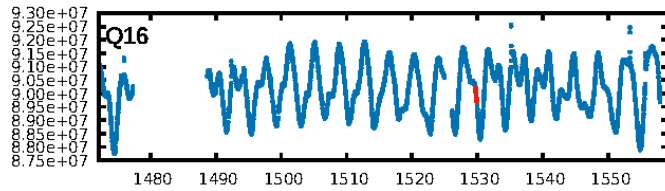
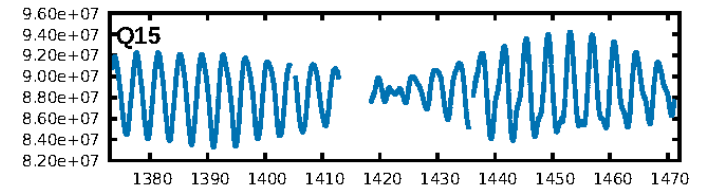
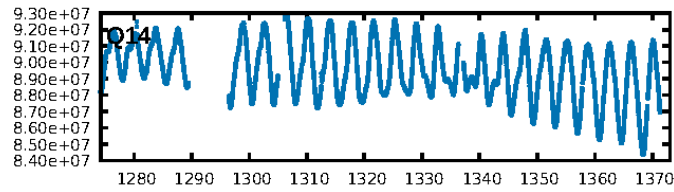
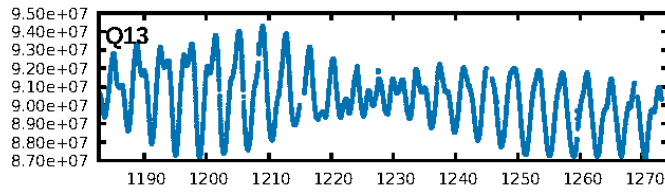
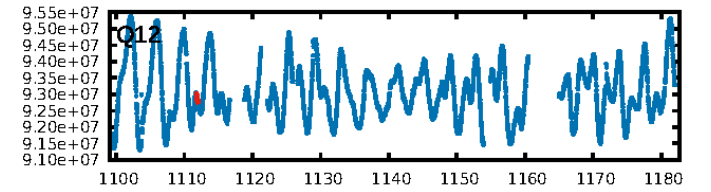
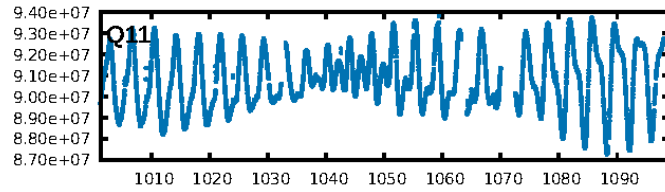
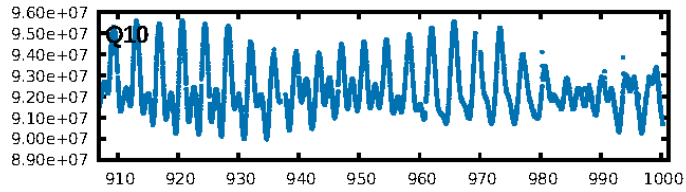
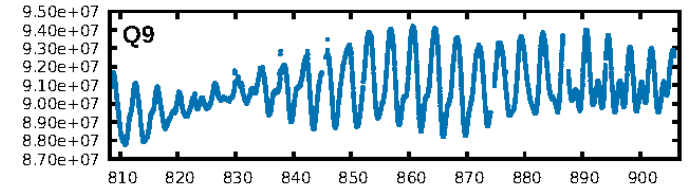
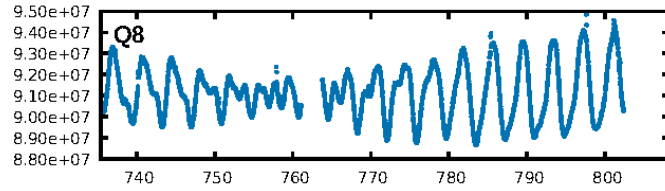
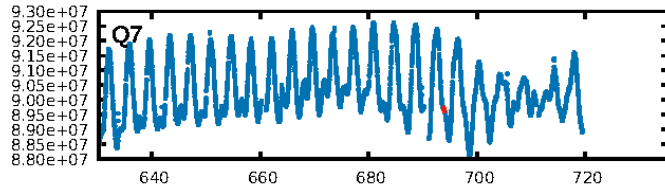
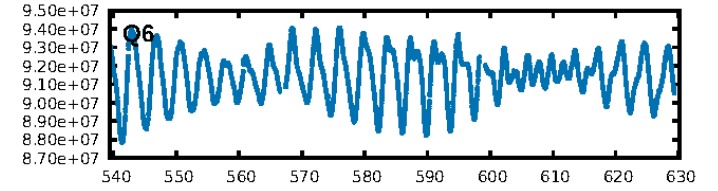
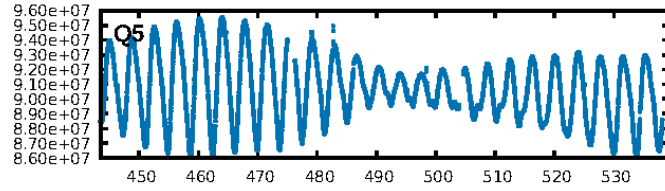
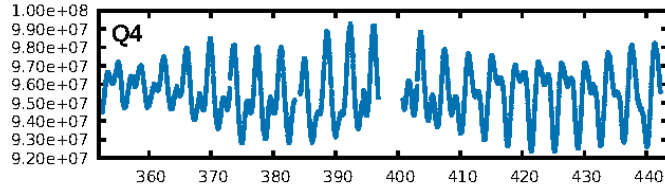
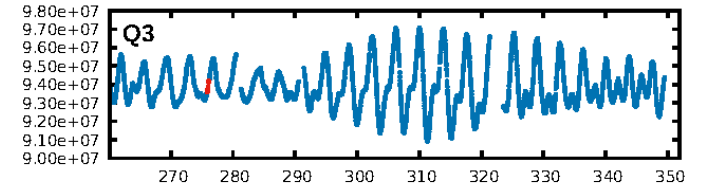
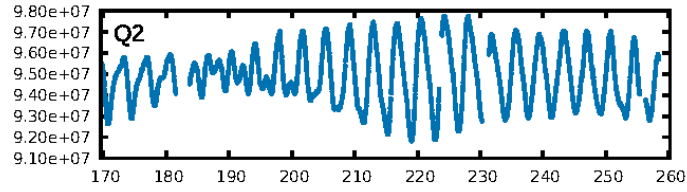
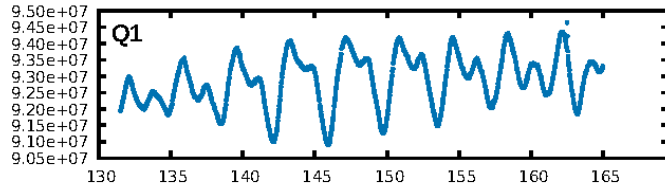
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [657.12σ]
LongPeriod-sig: 100.0% [105.26σ]
ModelChiSquare2-sig: 31.8%
ModelChiSquareGof-sig: 74.5%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.704
Centroid-sig: 70.6%
Centroid-so: 0.426 arcsec [0.34σ]
OotOffset-rm: 0.445 arcsec [1.14σ]
OotOffset-st: 0/1/2/0 [3]
KicOffset-rm: 0.562 arcsec [1.46σ]
KicOffset-st: 0/1/2/0 [3]
DiffImageQuality-fgm: 0.33 [1/3]
DiffImageOverlap-fno: 0.00 [0/4]

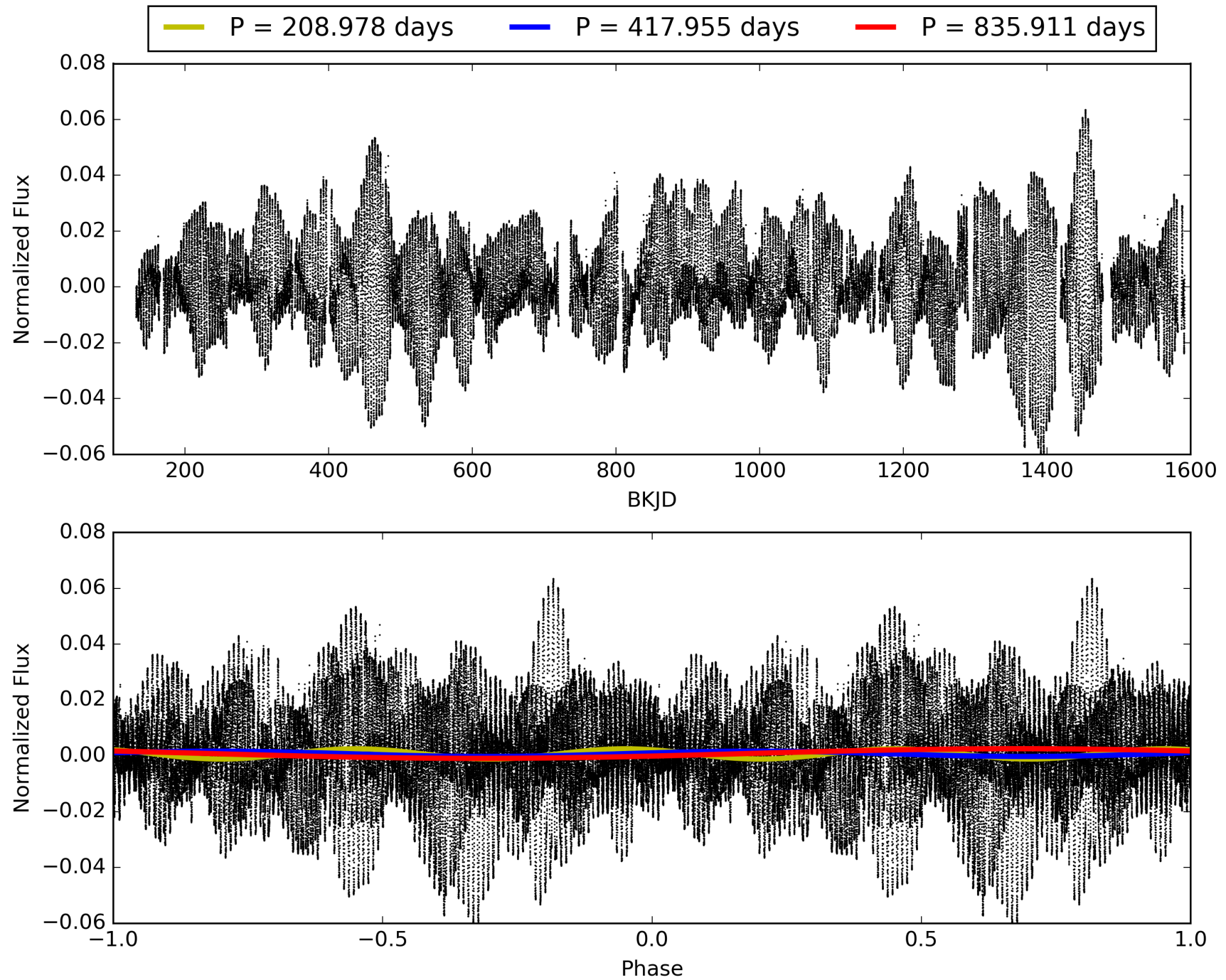
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:25:27 Z

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

TCE 007919763-04, PDC Light Curves

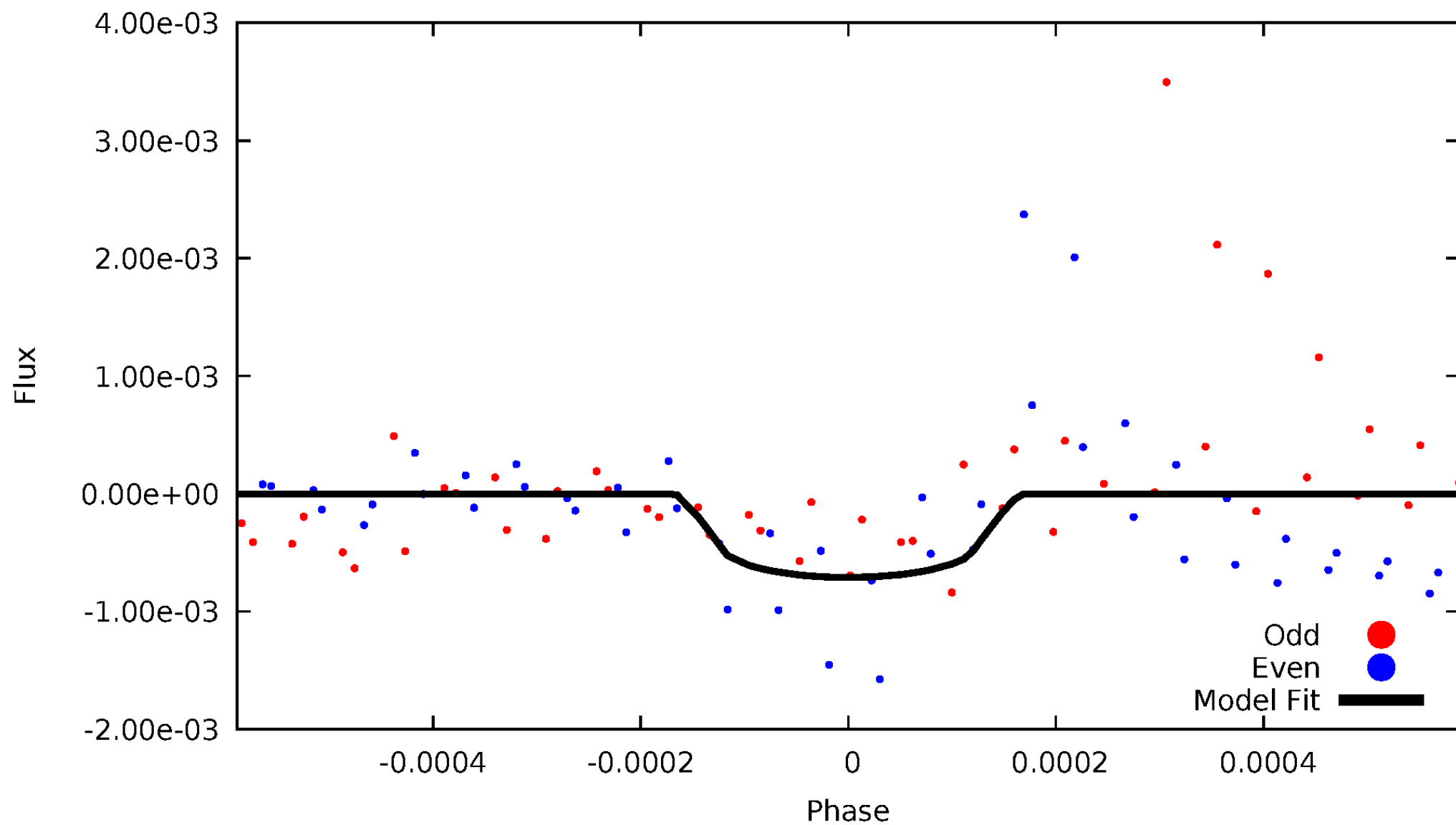


TCE 007919763-04



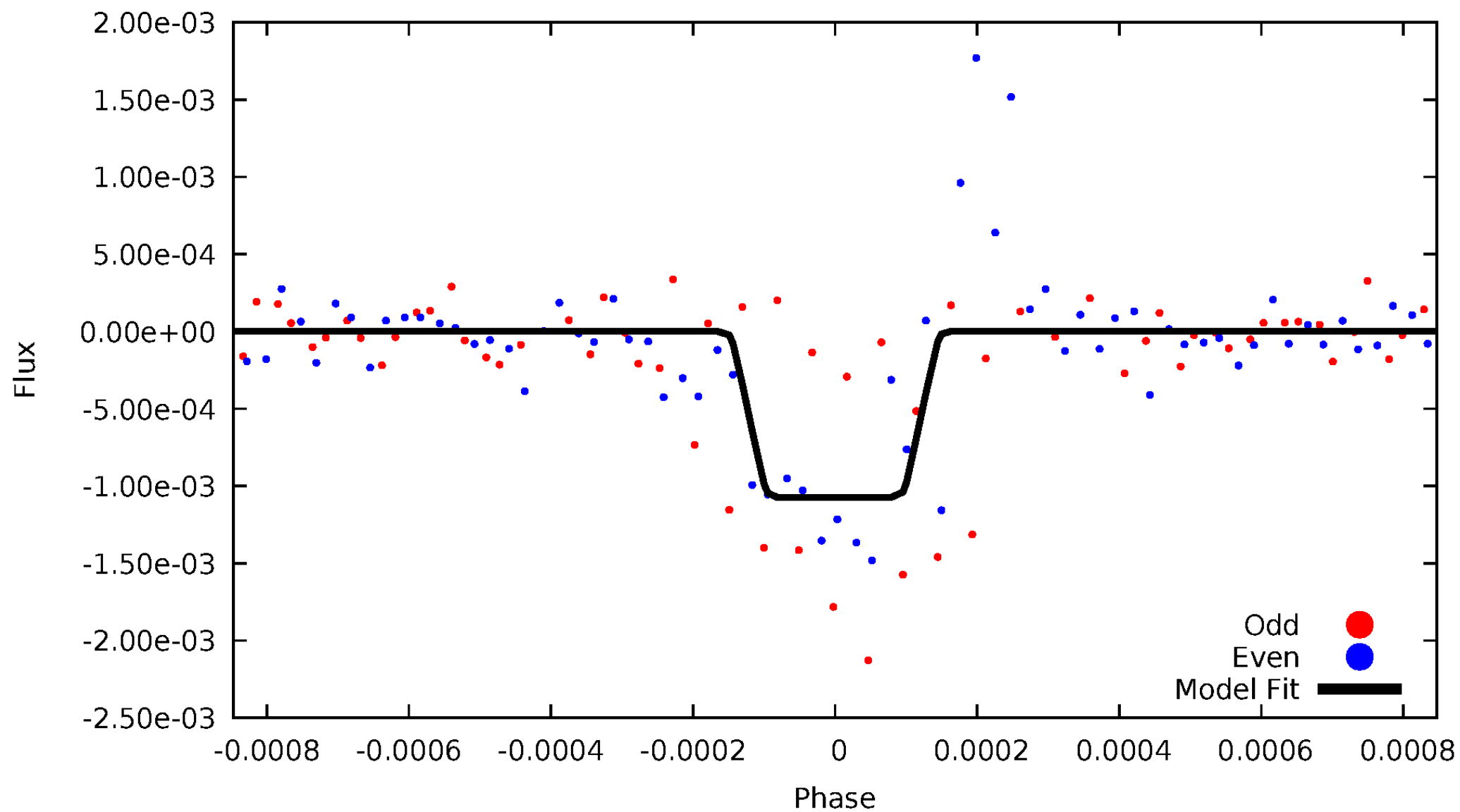
DV Odd/Even

TCE 007919763-04



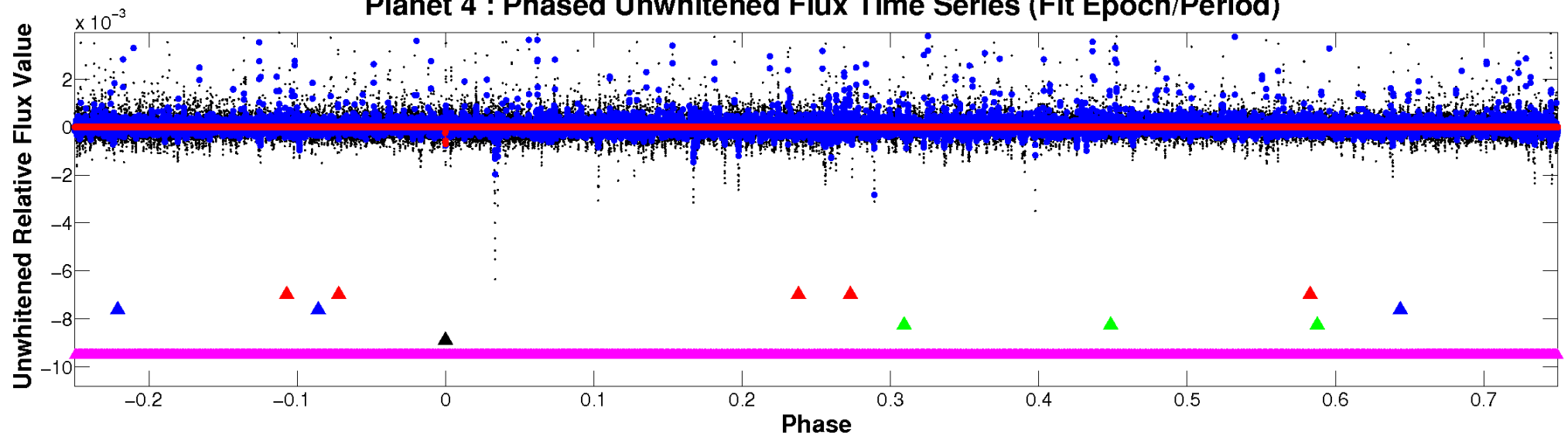
ALT Odd/Even

TCE 007919763-04

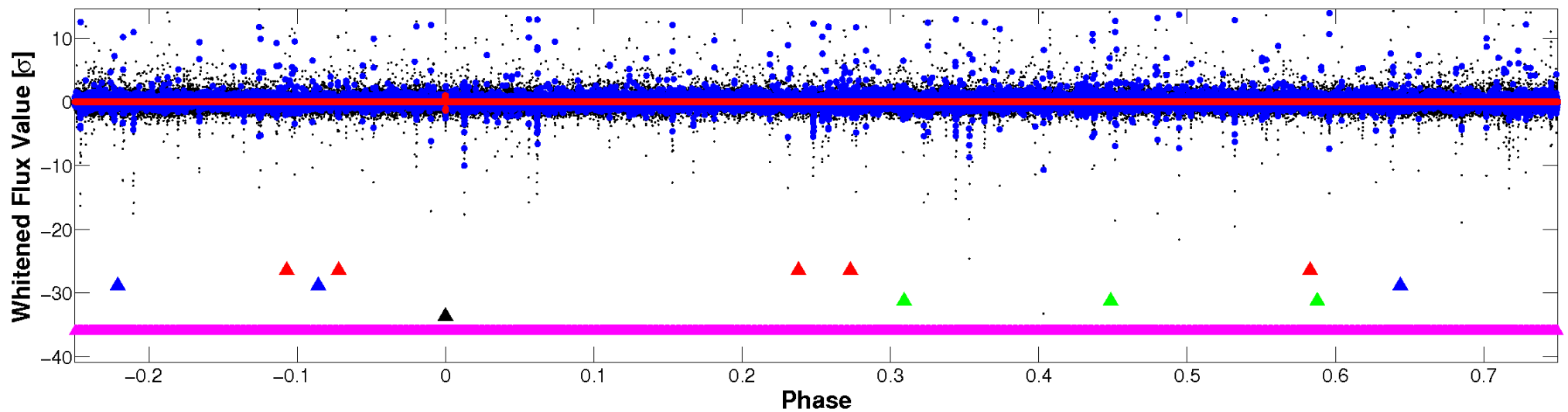


Non-Whitened Vs. Whitened Light Curve

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

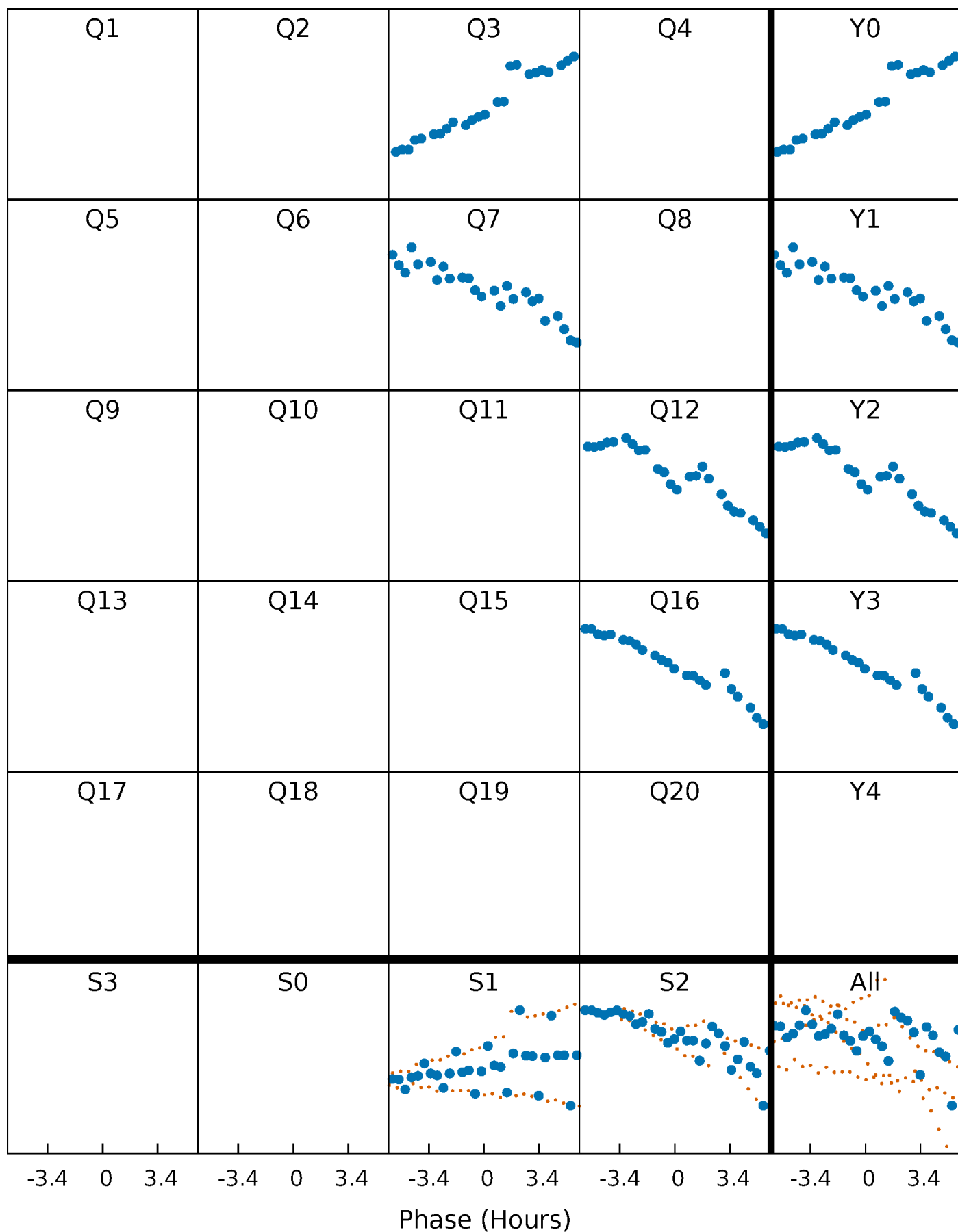


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



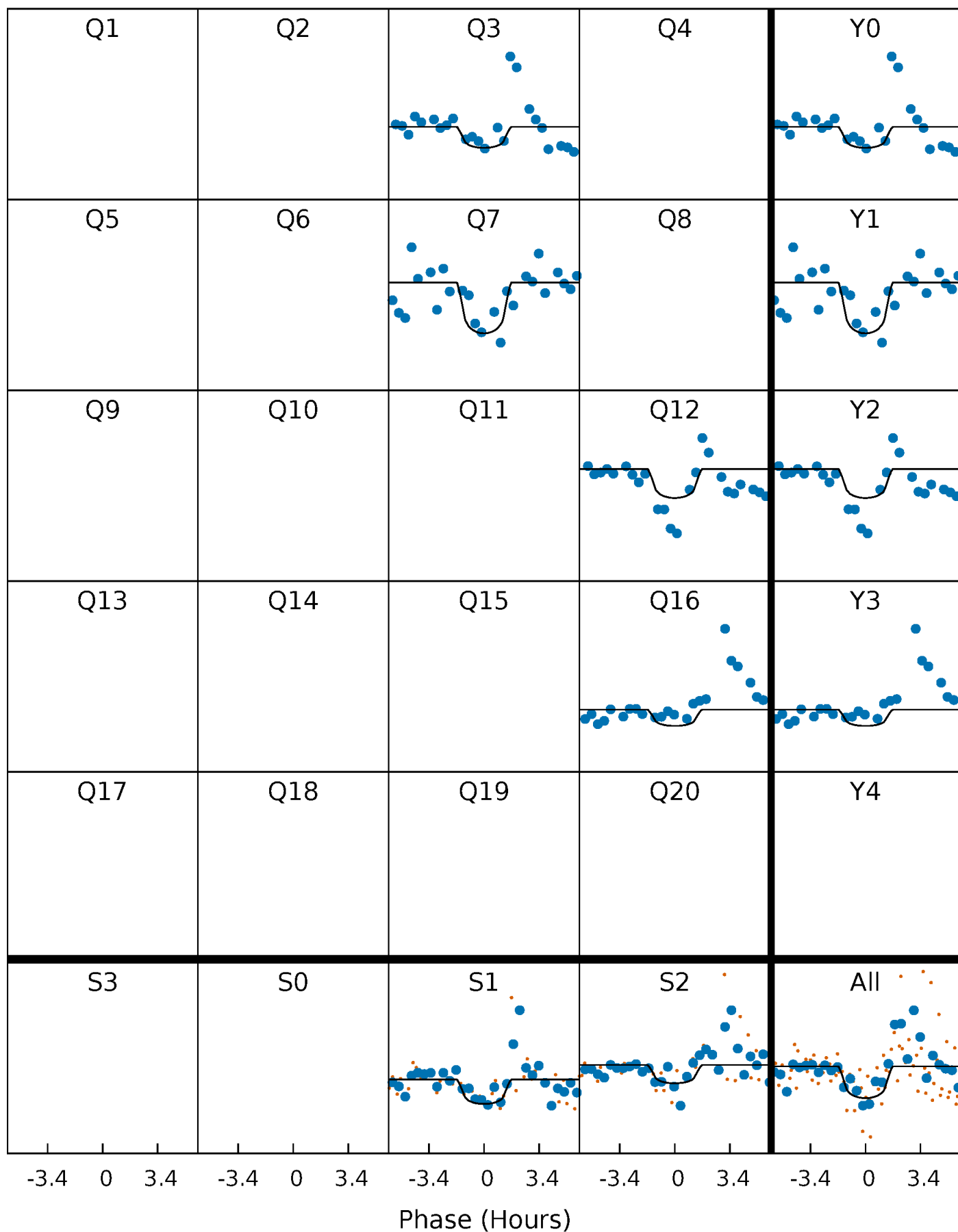
PDC Quarter-Phased Transit Curves

TCE 007919763-04 P=417.955389 Days $T_0=275.969817$ (BKJD)



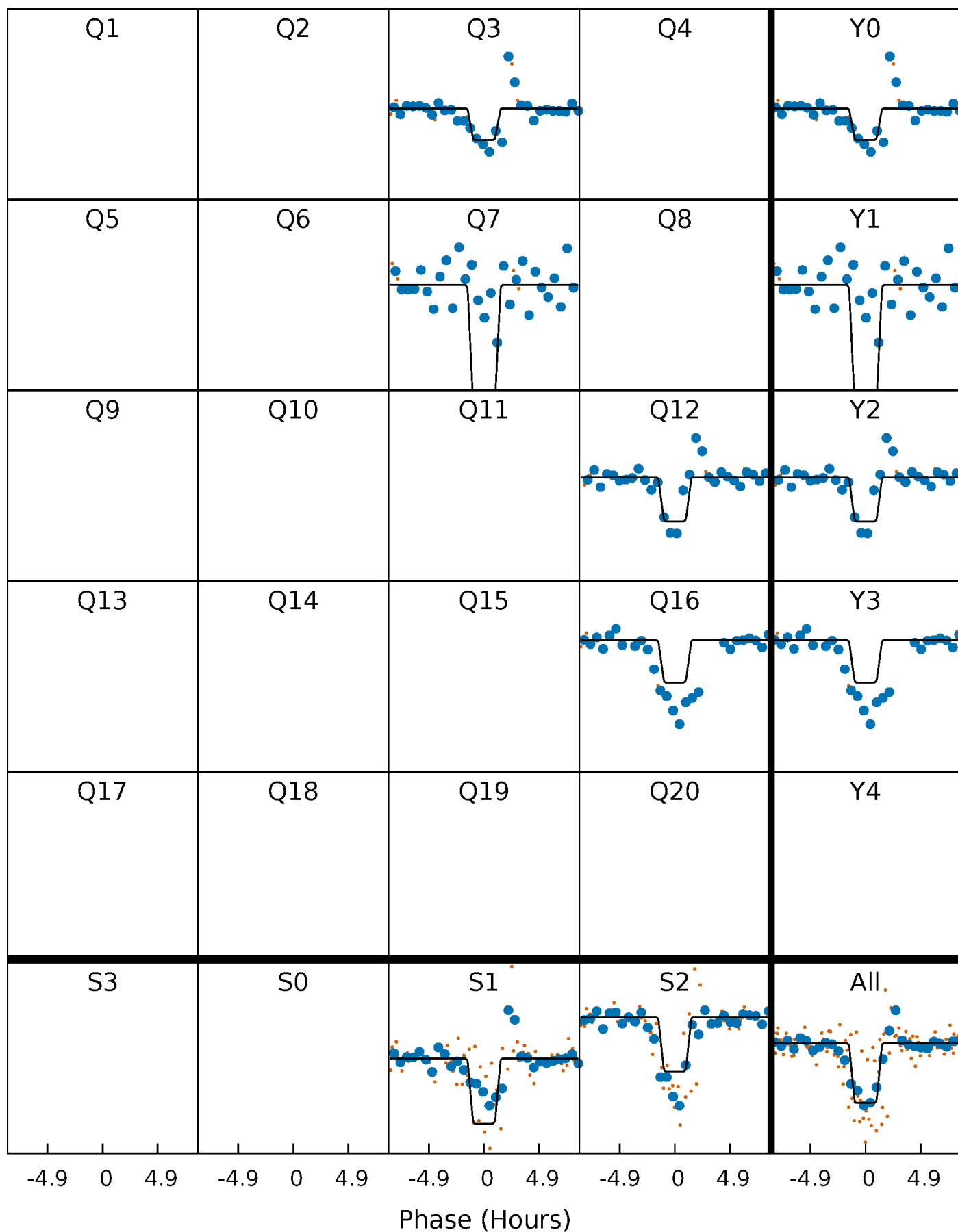
DV Quarter-Phased Transit Curves

TCE 007919763-04 $P=417.955389$ Days $T_0=275.969817$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

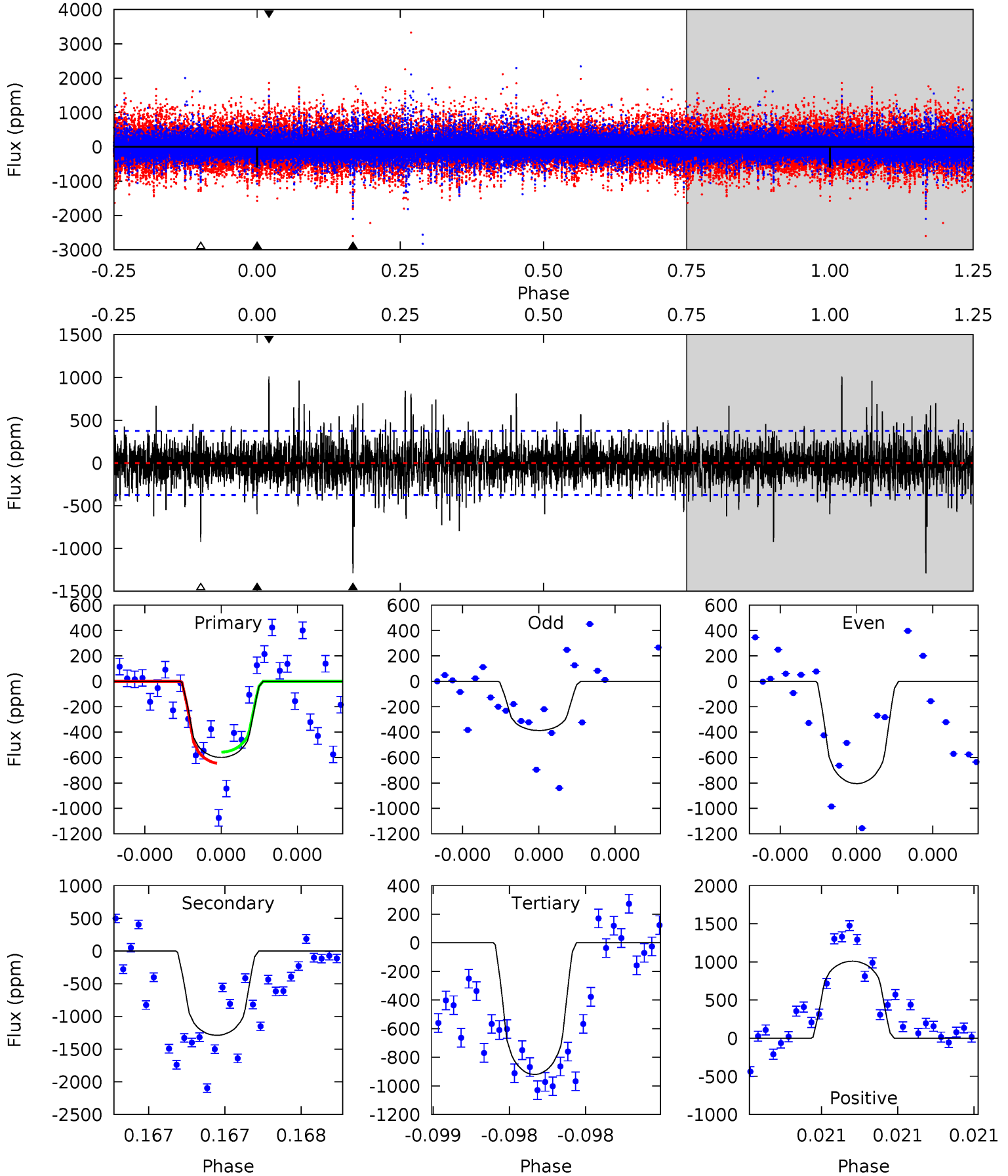
TCE 007919763-04 P=417.961659 Days $T_0=275.957453$ (BKJD)



DV Model-Shift Uniqueness Test

007919763-04, P = 417.955389 Days, E = 275.969817 Days

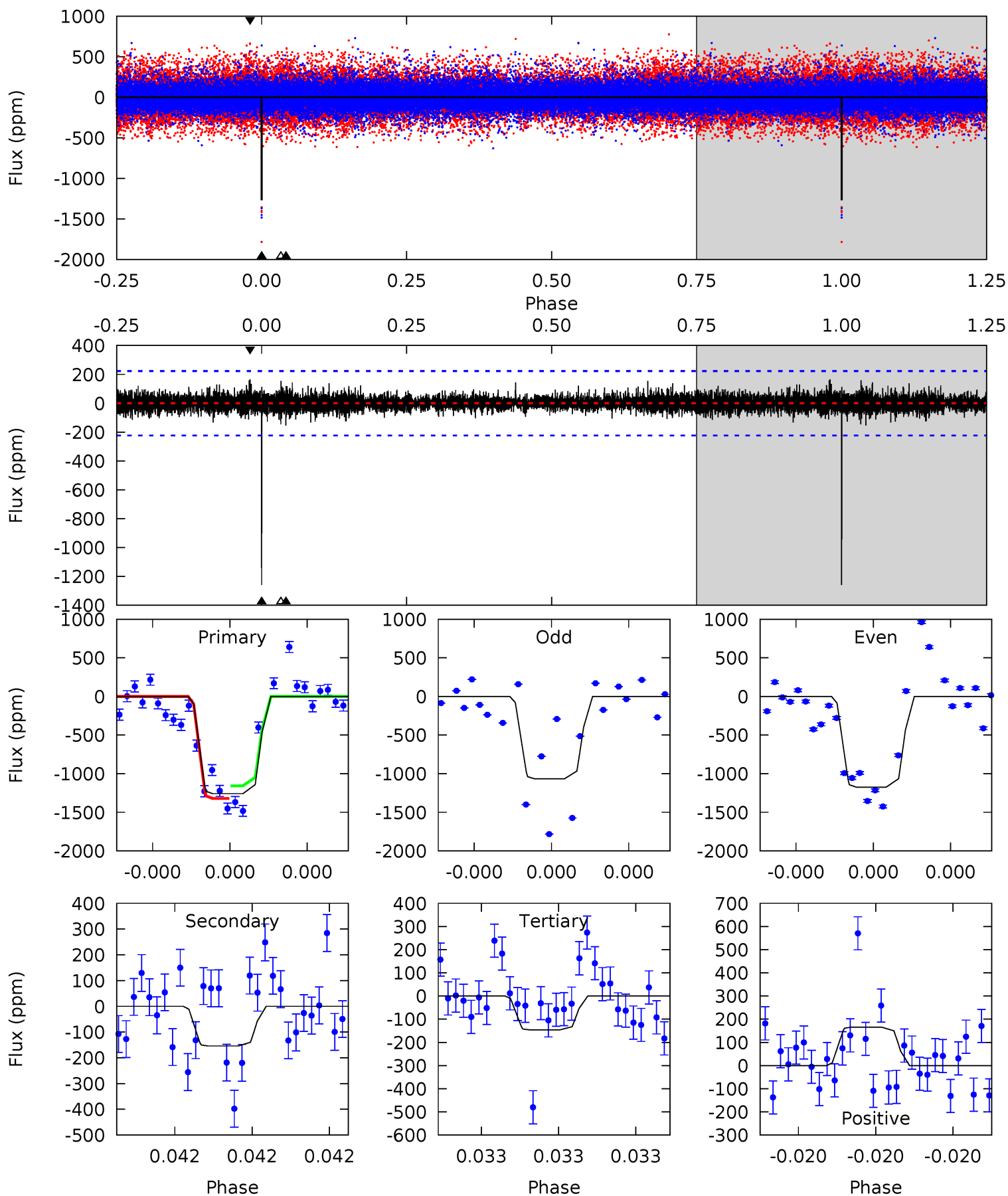
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.05	19.5	13.9	15.2	5.65	3.60	2.42	-4.86	-6.19	5.57	4.23	2.69	1.14	0.44	0.66



Alt Model-Shift Uniqueness Test

007919763-04, P = 417.961659 Days, E = 275.957453 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
31.9	3.91	3.71	4.20	5.66	3.61	0.77	28.2	27.7	0.20	-0.29	1.53	0.93	0.12	2.08



Stellar Parameters For KIC 007919763

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5470^{+164}_{-147}	$4.381^{+0.168}_{-0.252}$	$-0.100^{+0.300}_{-0.250}$	$0.970^{+0.350}_{-0.175}$	$0.825^{+0.121}_{-0.070}$	$1.273^{+1.014}_{-0.749}$
	+3%/-3%	+4%/-6%	+300%/-250%	+36%/-18%	+15%/-8%	+80%/-59%
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 007919763-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1290 ± 66	$5.05^{+5.09}_{-3.33}$	330^{+31}_{-22}	4824^{+3814}_{-1055}	$30128^{+228240}_{-23055}$
Alt.	-154 ± 39	$6.03^{+5.02}_{-4.24}$	330^{+30}_{-22}	3184^{+1558}_{-490}	2518^{+24657}_{-1782}

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 $A_{obs} \gg 1.0$

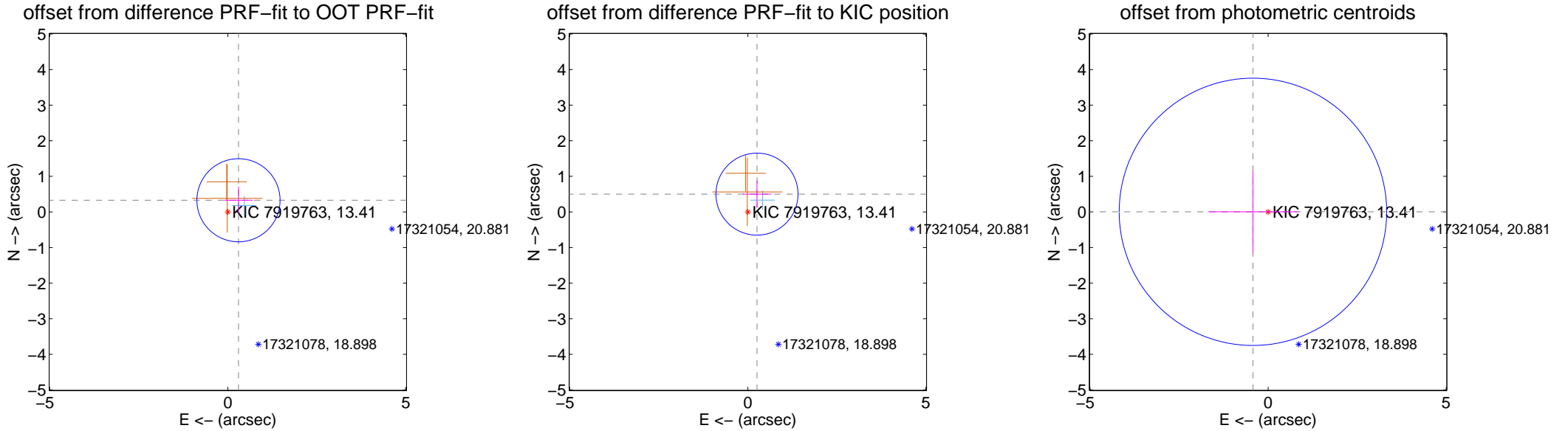
DV Centroid Data

Supplemental centroid analysis for 007919763-04. Kepler magnitude: 13.41. Transit SNR 6.55

There are 1 quarters with good PRF difference image offsets

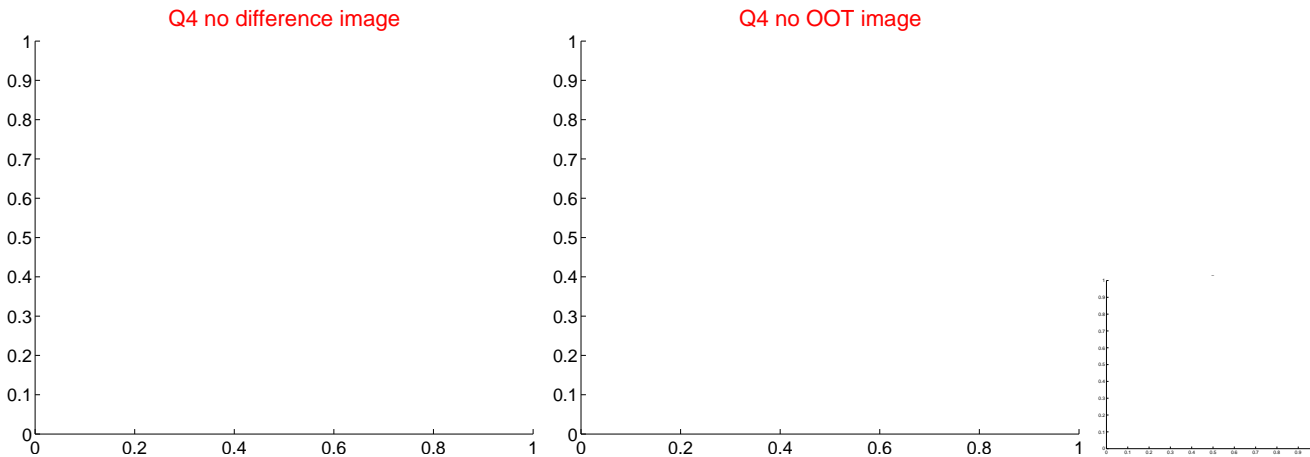
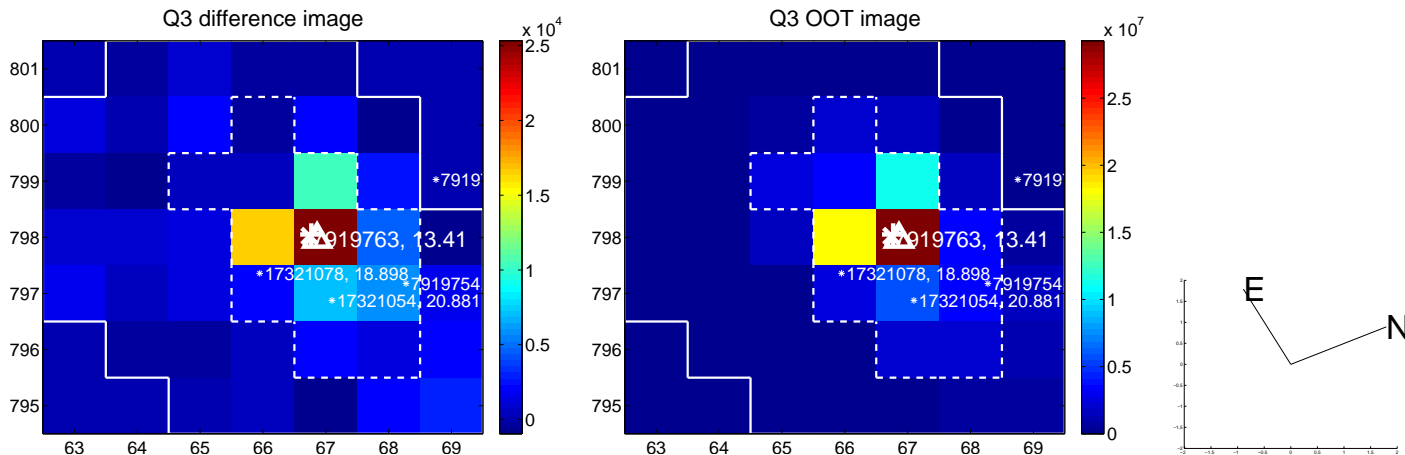
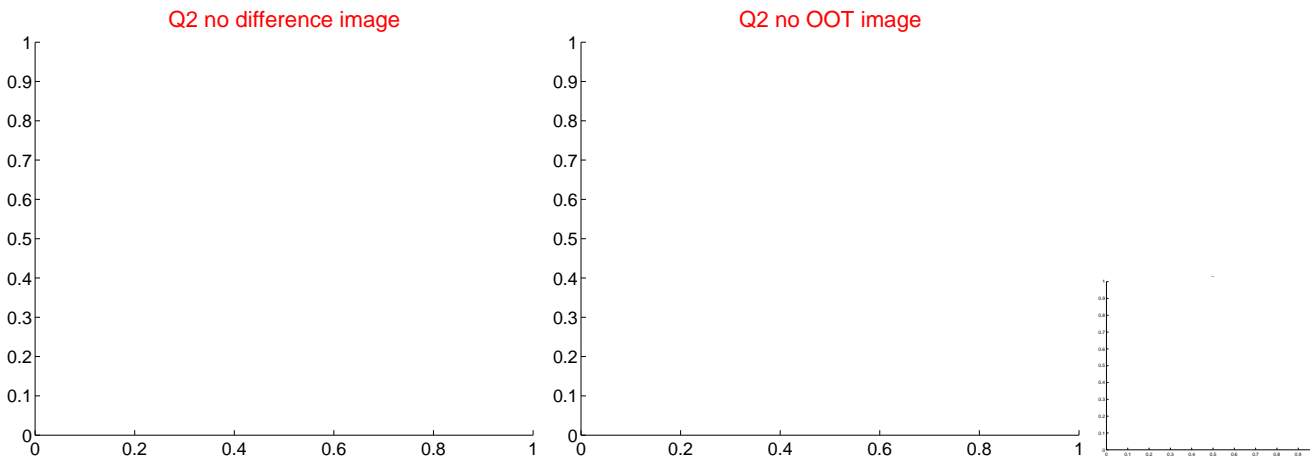
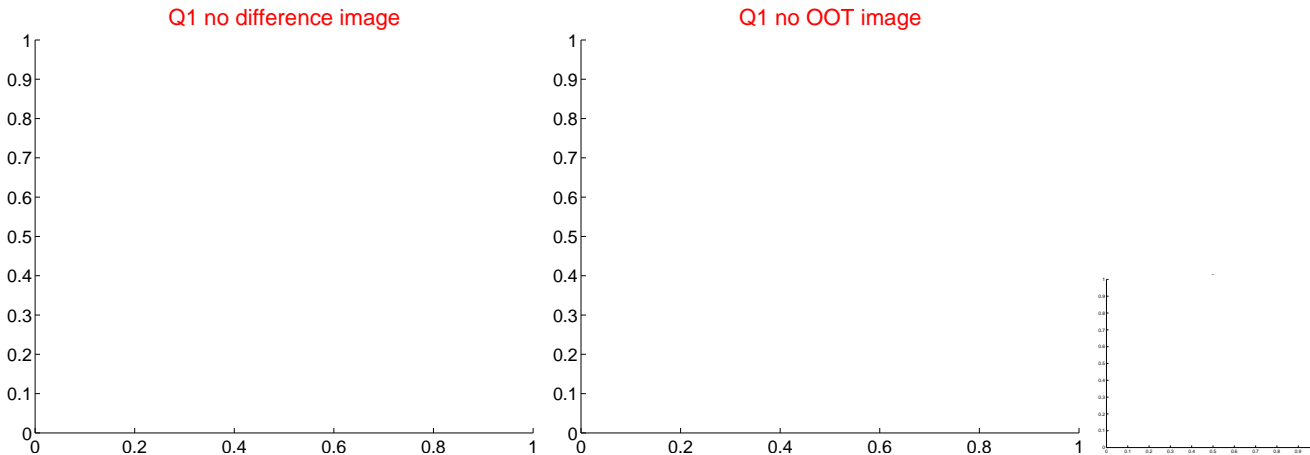
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.445 ± 0.389	1.14	-0.300 ± 0.401	0.328 ± 0.380
PRF-fit source offset from KIC position	0.562 ± 0.384	1.46	-0.257 ± 0.401	0.500 ± 0.380
photometric centroid source offset	0.43 ± 1.25	0.34	0.43 ± 1.25	0.00 ± 1.14

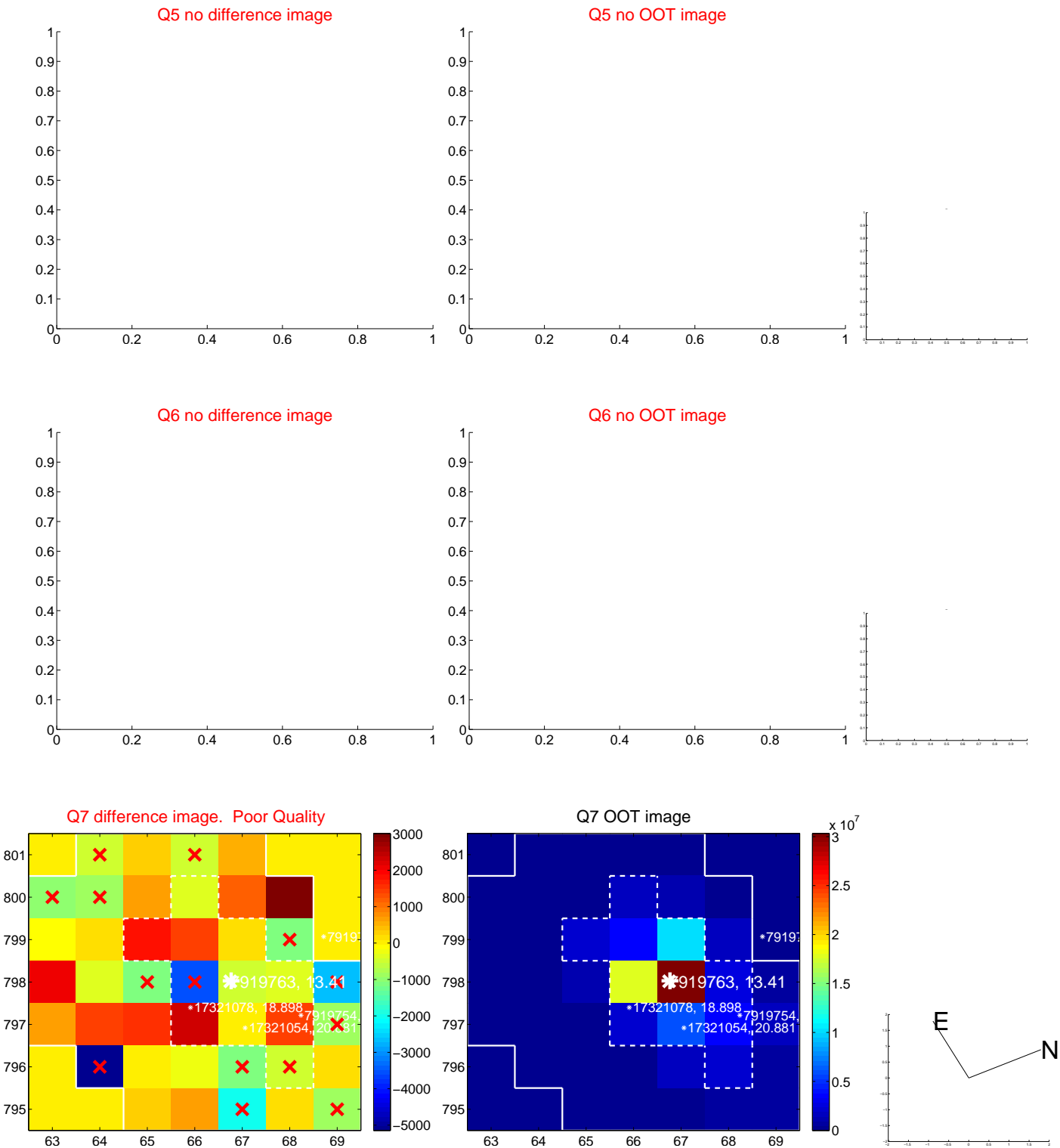


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

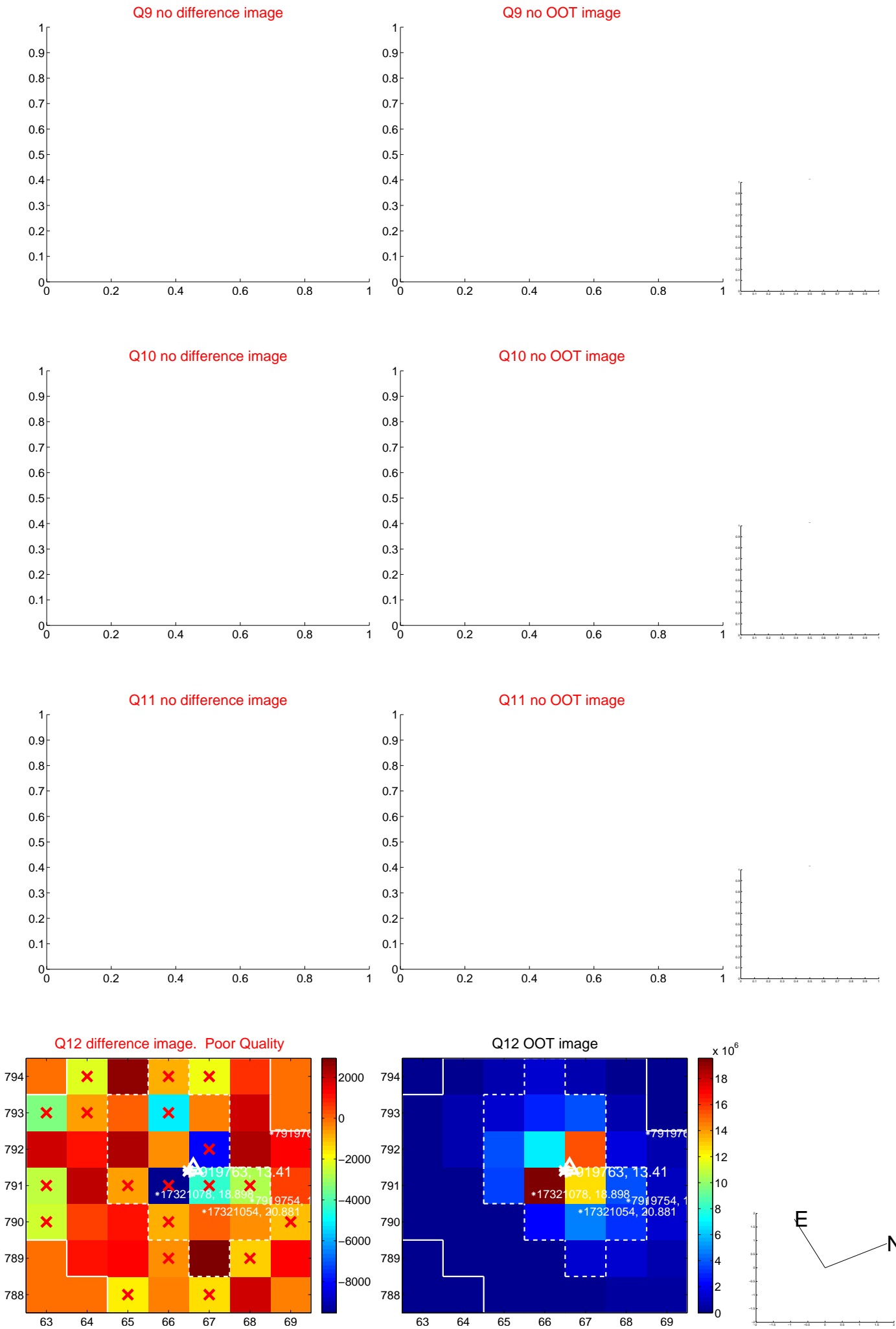
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



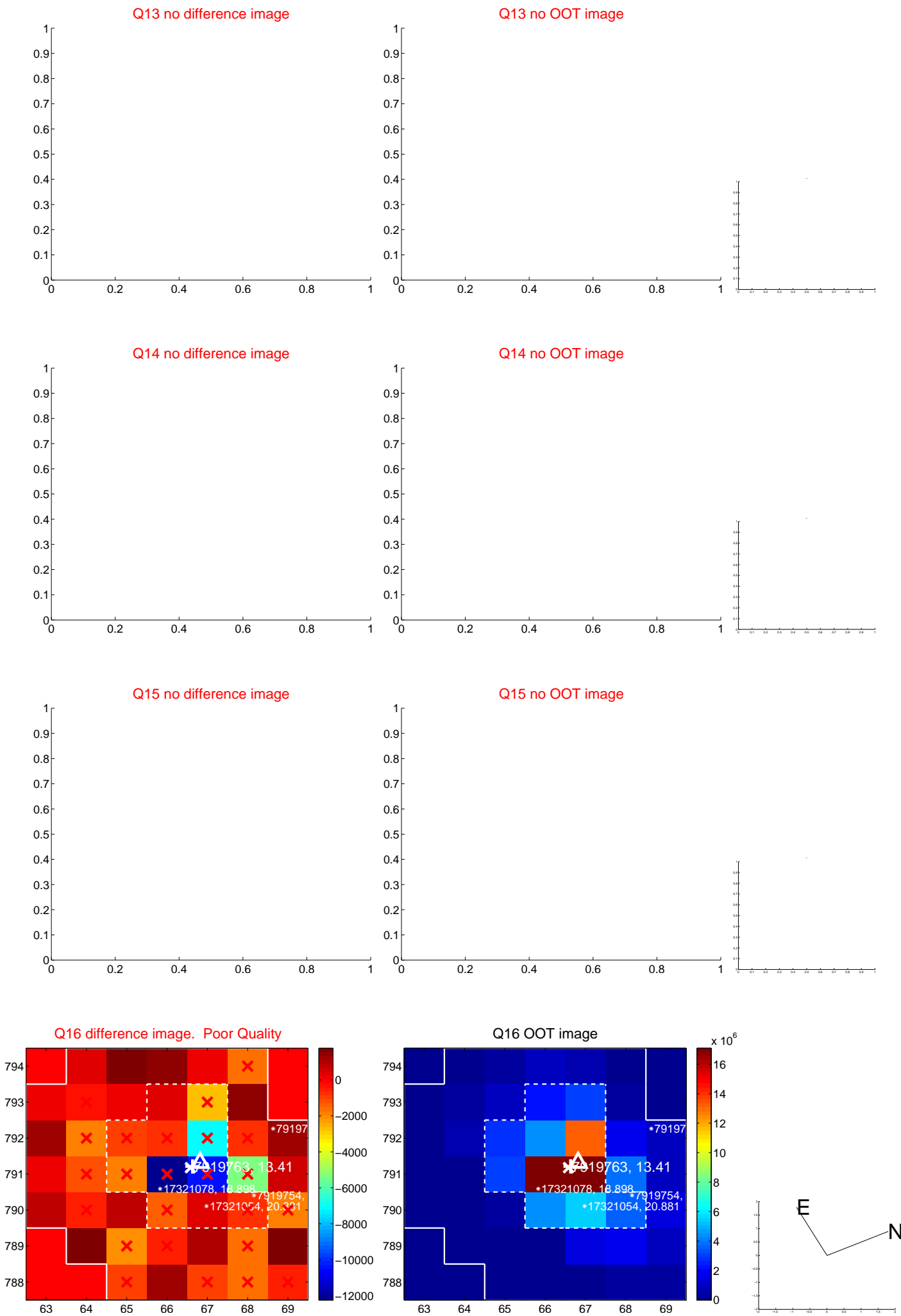
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



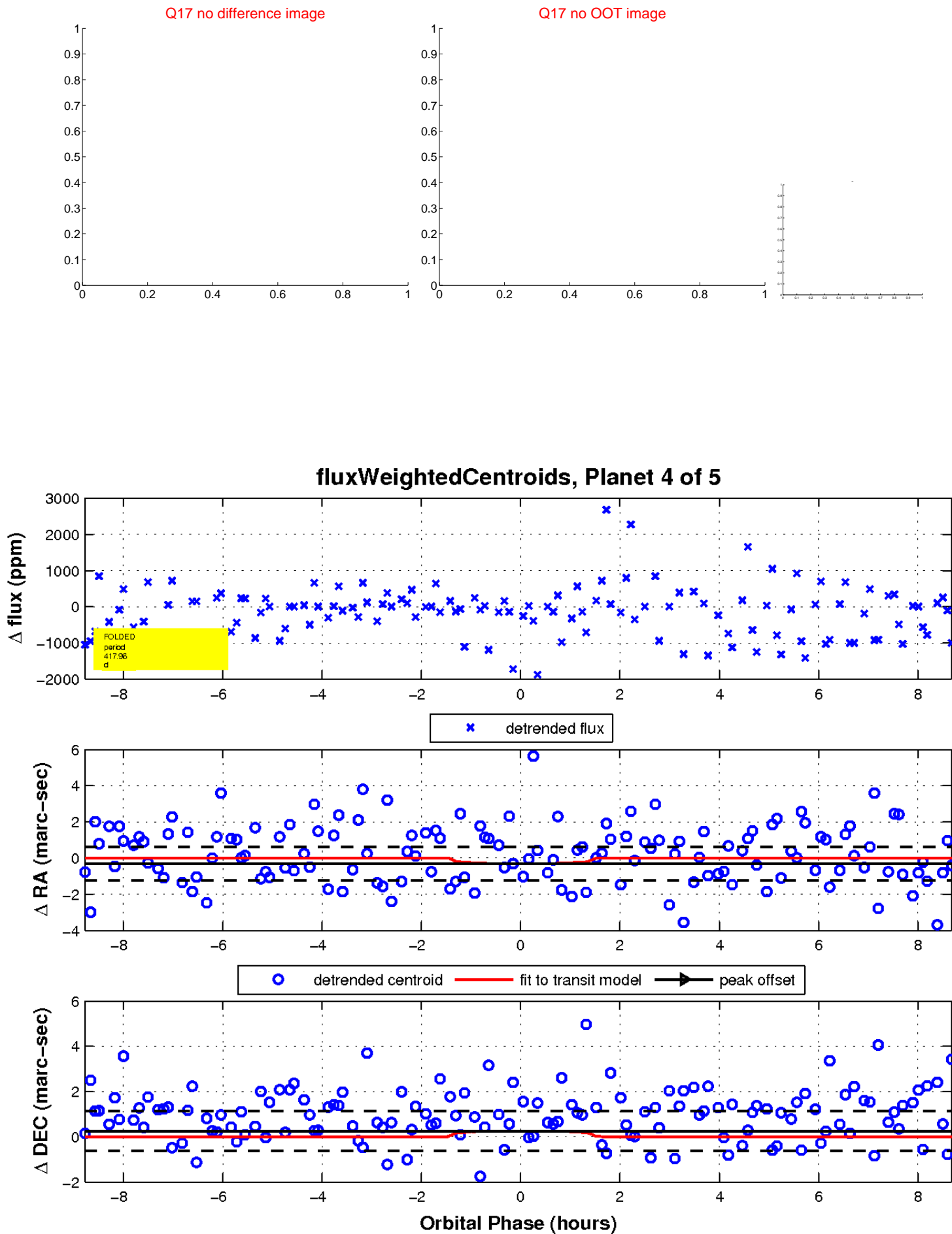
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

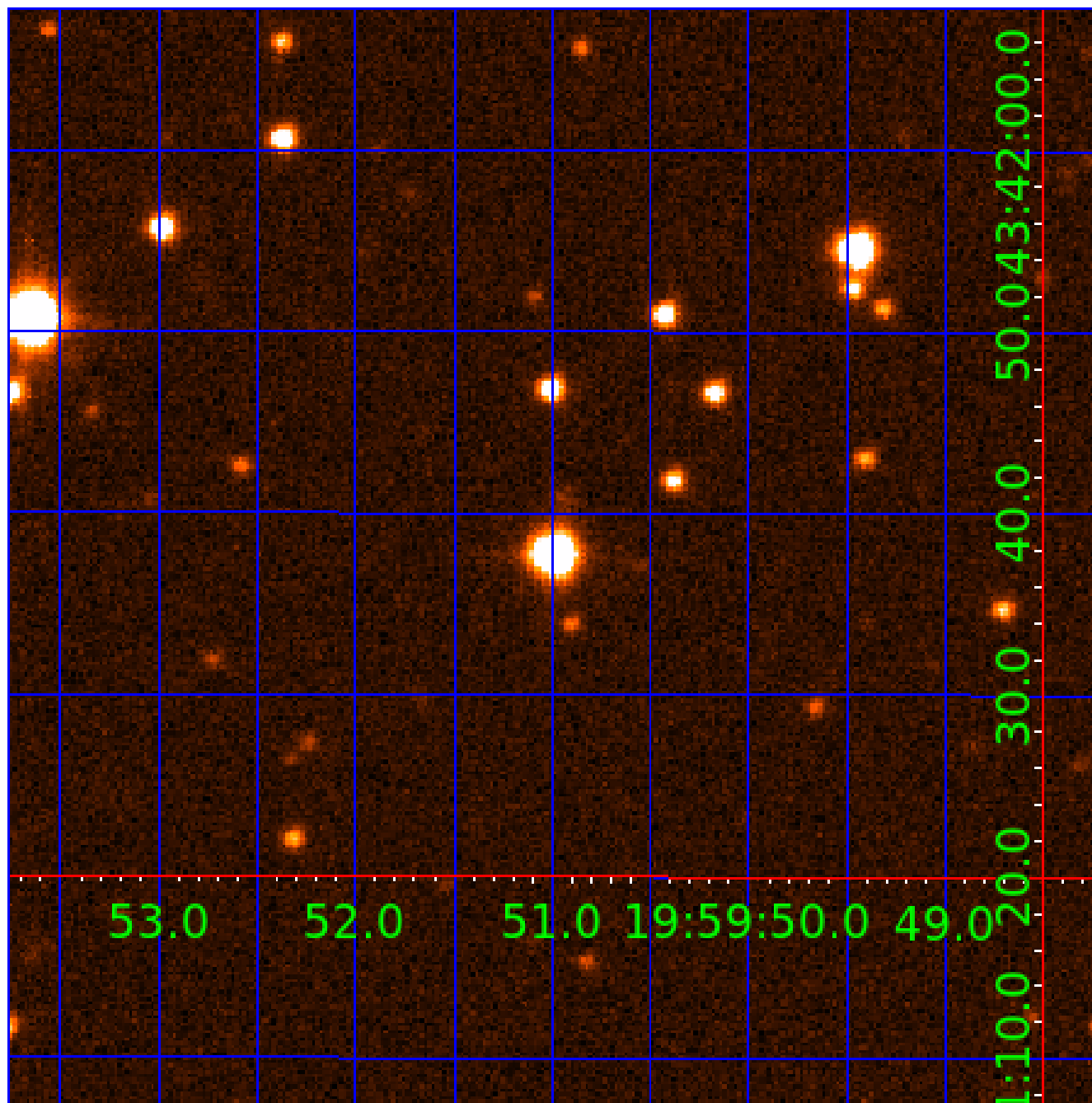


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007919763

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})
007919763-01	OBS	No	273.757919	390.070694	945.7	4.361	16.2	6.3	0.97	5470	2.98	1.26
007919763-02	OBS	No	474.481443	545.037849	963.6	12.546	12.3	4.0	0.97	5470	3.03	0.60
007919763-03	OBS	No	476.162932	405.218182	574.1	15.159	11.5	2.6	0.97	5470	2.35	0.60
007919763-04	OBS	No	417.955389	275.969817	710.3	2.953	11.3	6.5	0.97	5470	2.67	0.72
007919763-05	OBS	No	0.521530	131.904944	455.0	2.000	11.1	-1.0	0.97	5470	2.04	5333.18

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007919763-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007919763-02	OBS	FP	0.00	1	0	0	0	LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007919763-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS
007919763-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007919763-05	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS

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

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

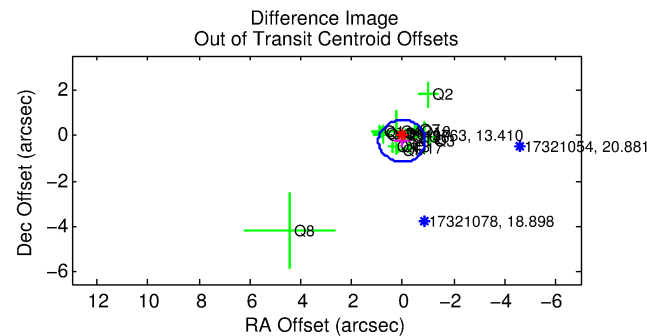
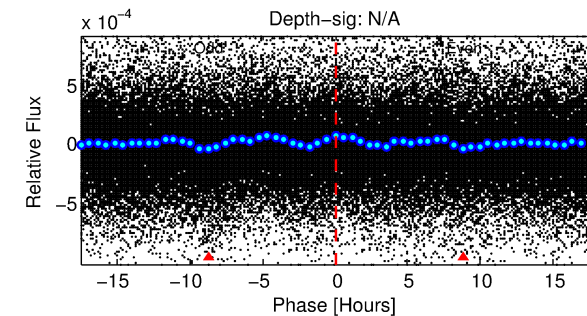
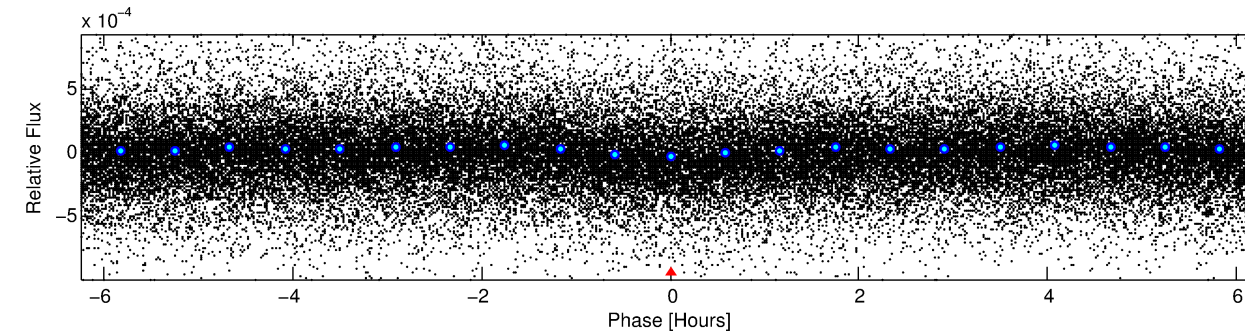
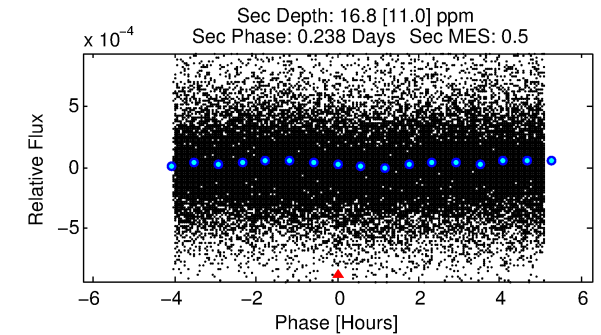
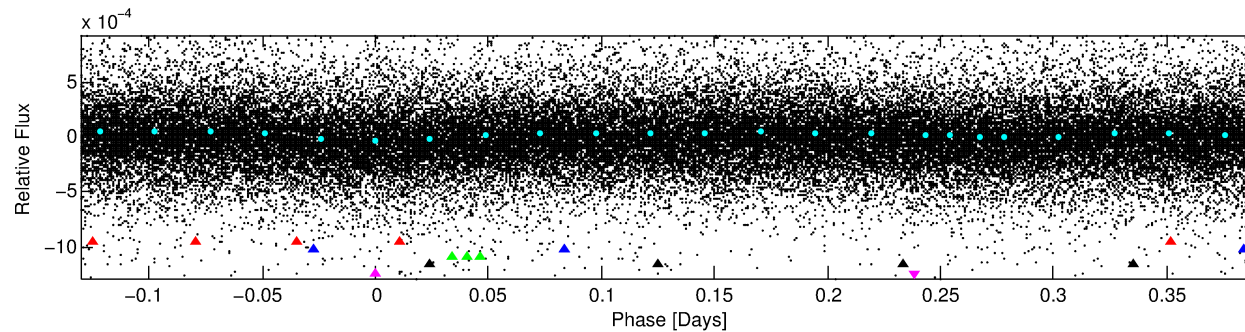
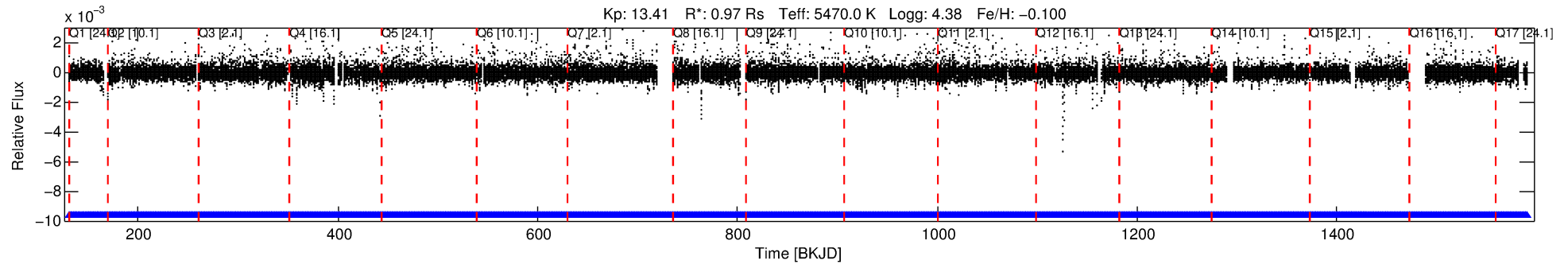
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007919763-05

No Significant Match Found

DV One-Page Summary

KIC: 7919763 Candidate: 5 of 5 Period: 0.522 d



TPS TCE Results:

Period = 0.52153 d
Epoch = 131.9049 BKJD

DV fit results are unavailable

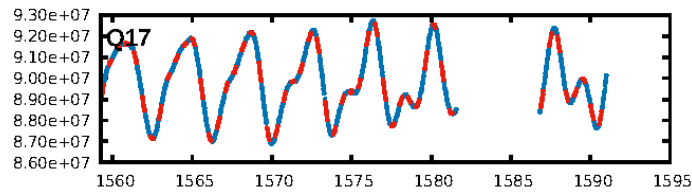
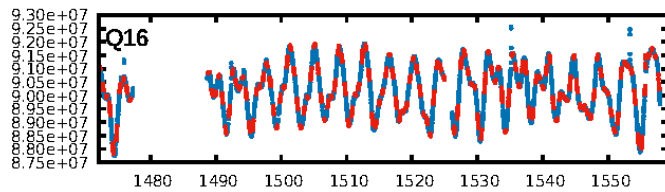
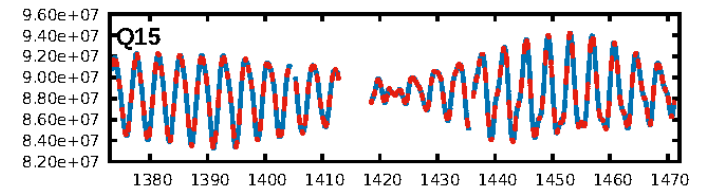
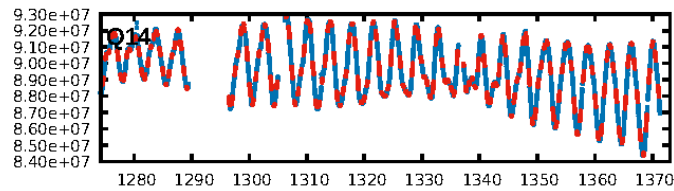
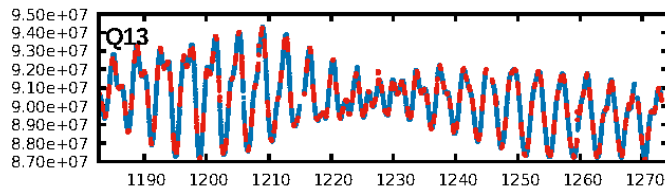
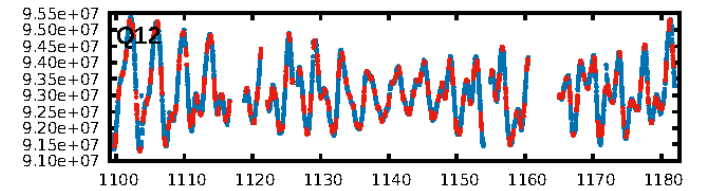
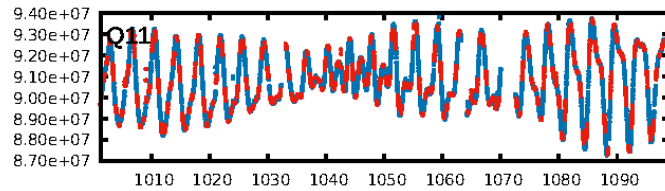
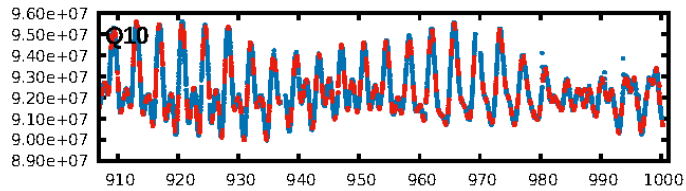
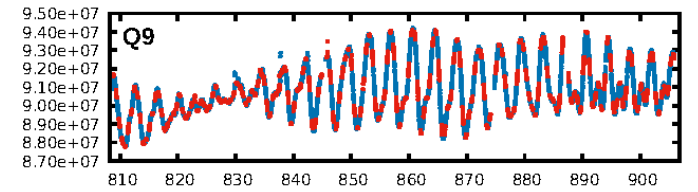
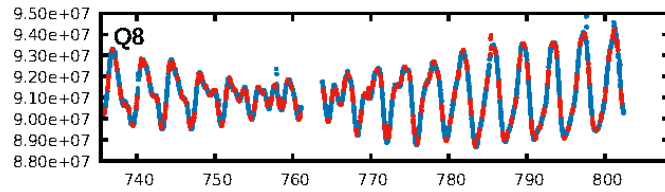
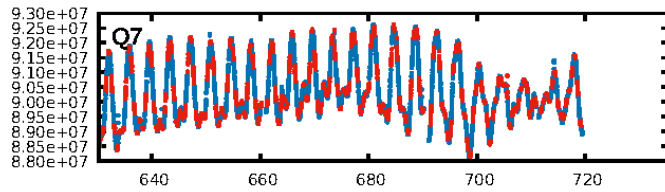
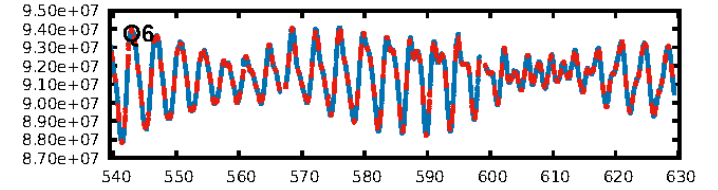
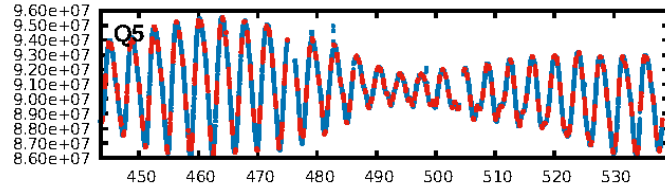
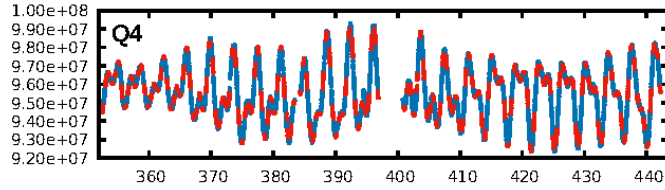
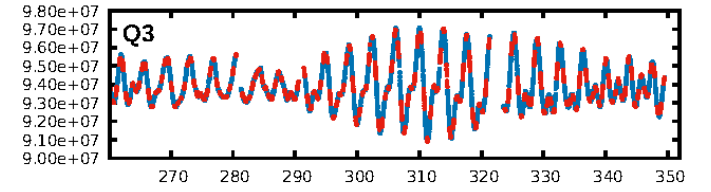
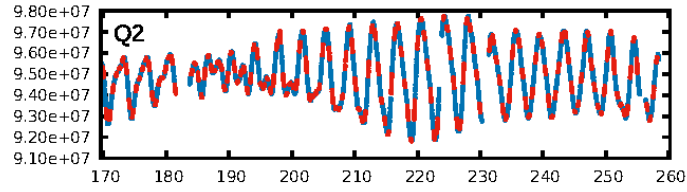
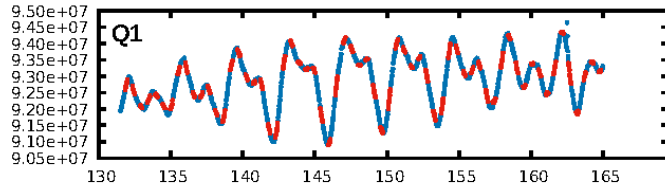
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [1366.82 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2434/2434]
GhostDiagnostic-chr: 5.041
Centroid-sig: 1.9%
Centroid-so: 0.686 arcsec [1.52 σ]
OotOffset-rm: 0.239 arcsec [0.78 σ]
KicOffset-rm: 0.117 arcsec [0.32 σ]
OotOffset-st: 4/3/4/5 [16]
KicOffset-st: 4/3/4/5 [16]
DiffImageQuality-fgm: 0.81 [13/16]
DiffImageOverlap-fno: 1.00 [17/17]

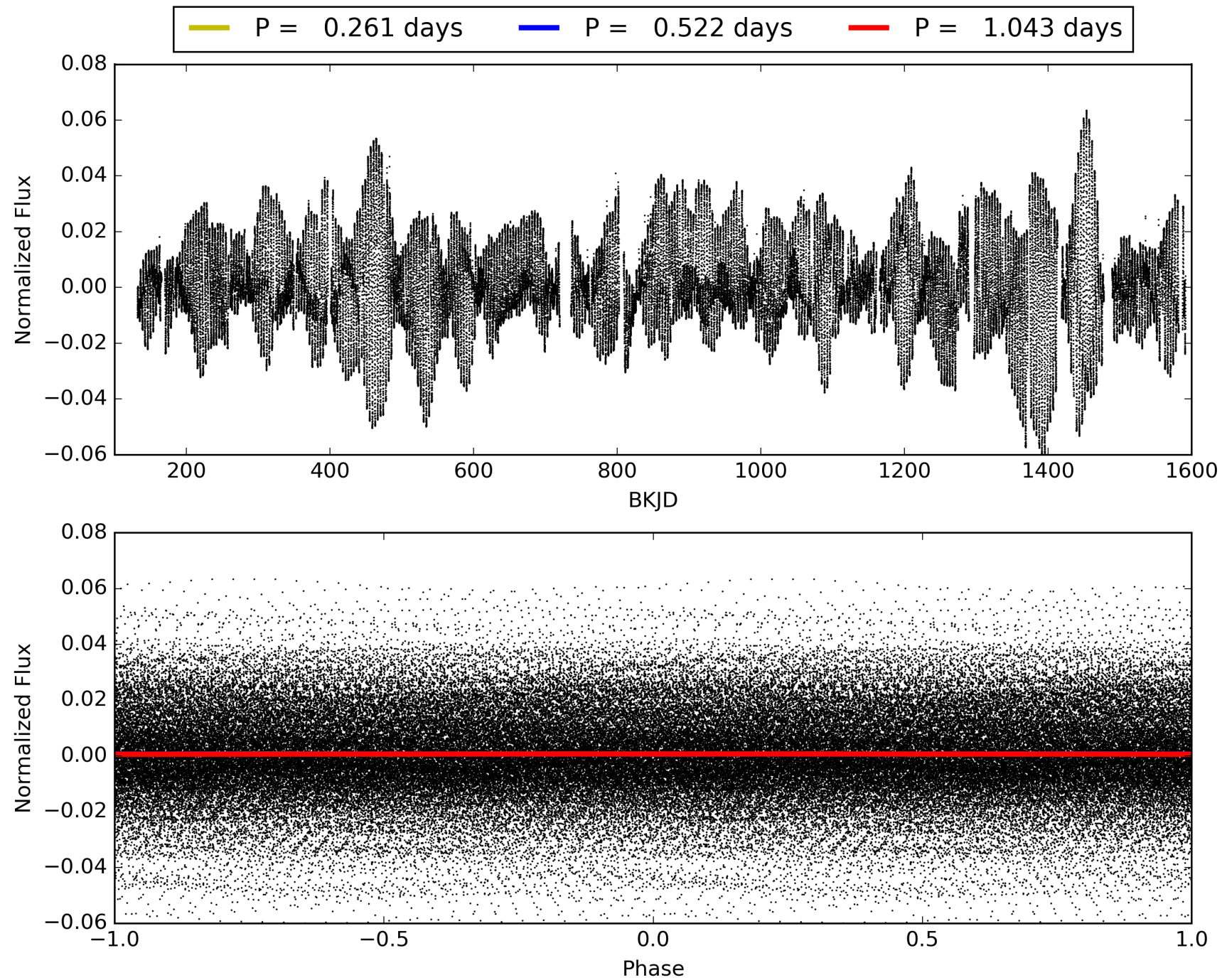
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:25:36 Z

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

TCE 007919763-05, PDC Light Curves

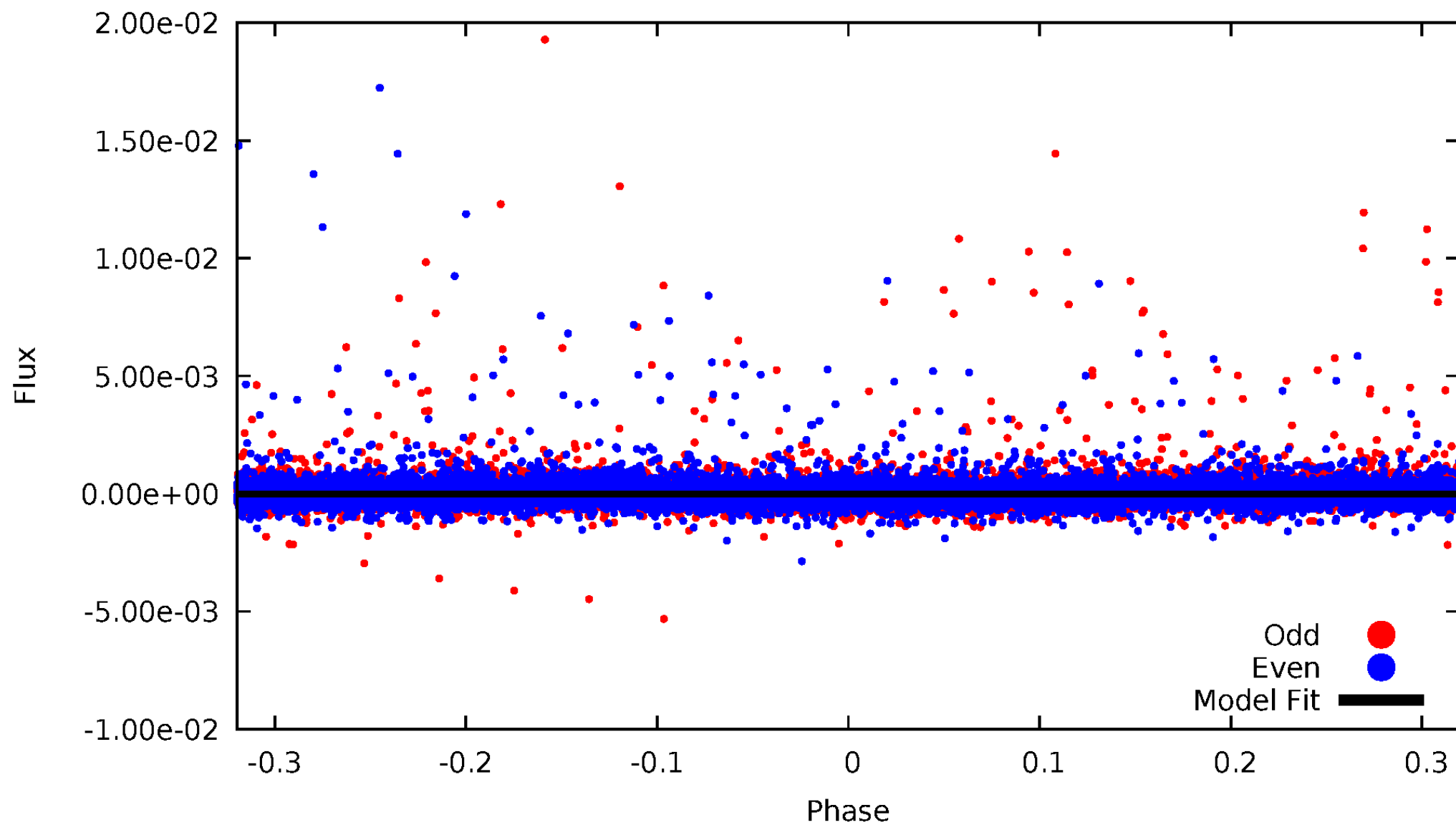


TCE 007919763-05



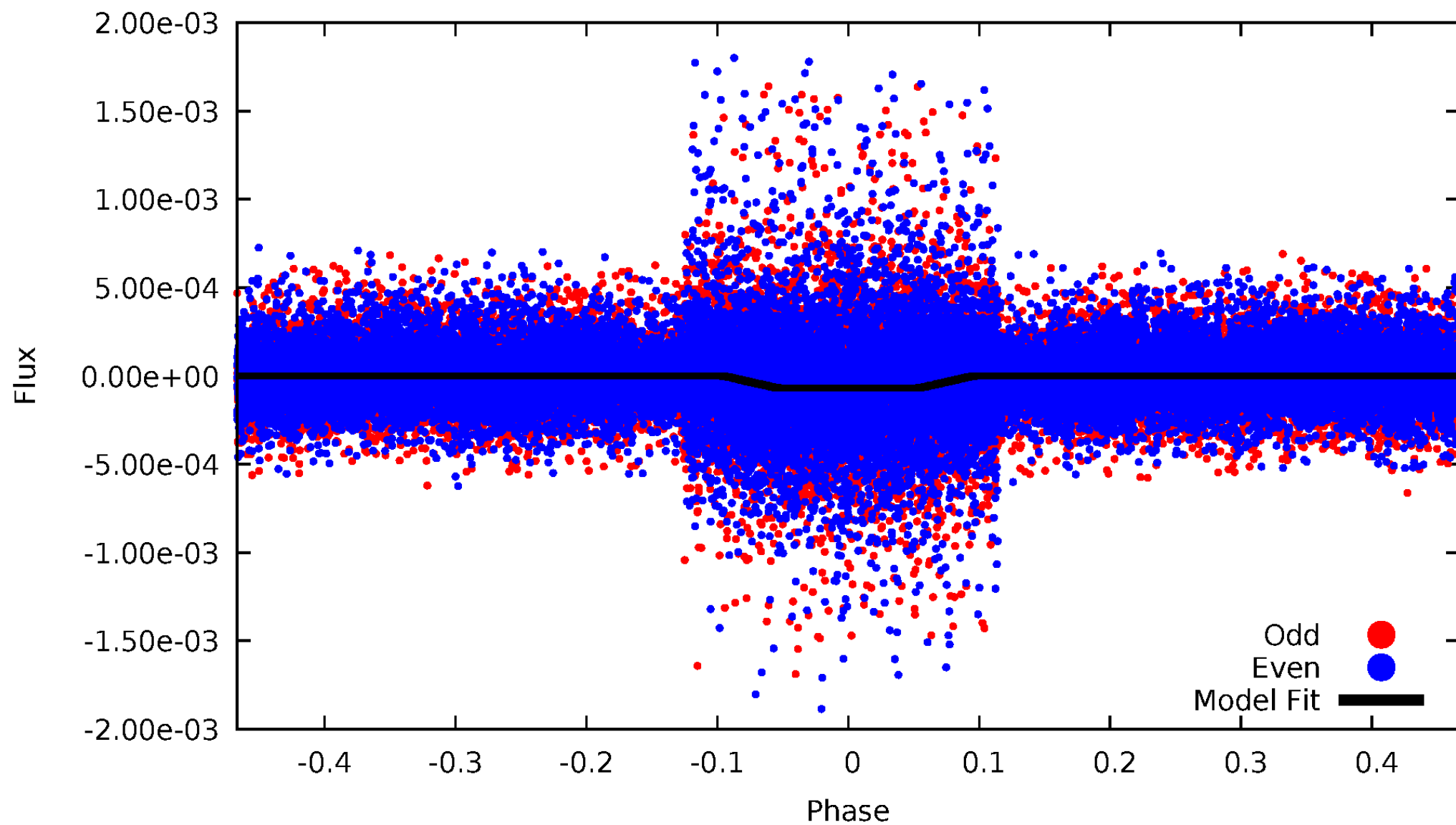
DV Odd/Even

TCE 007919763-05

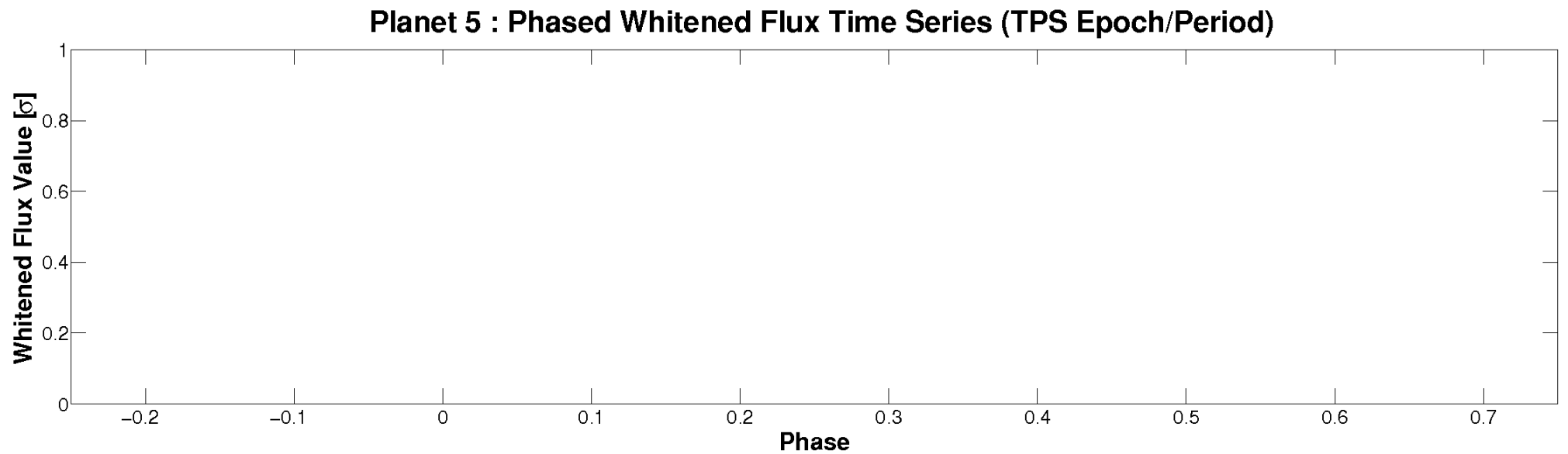
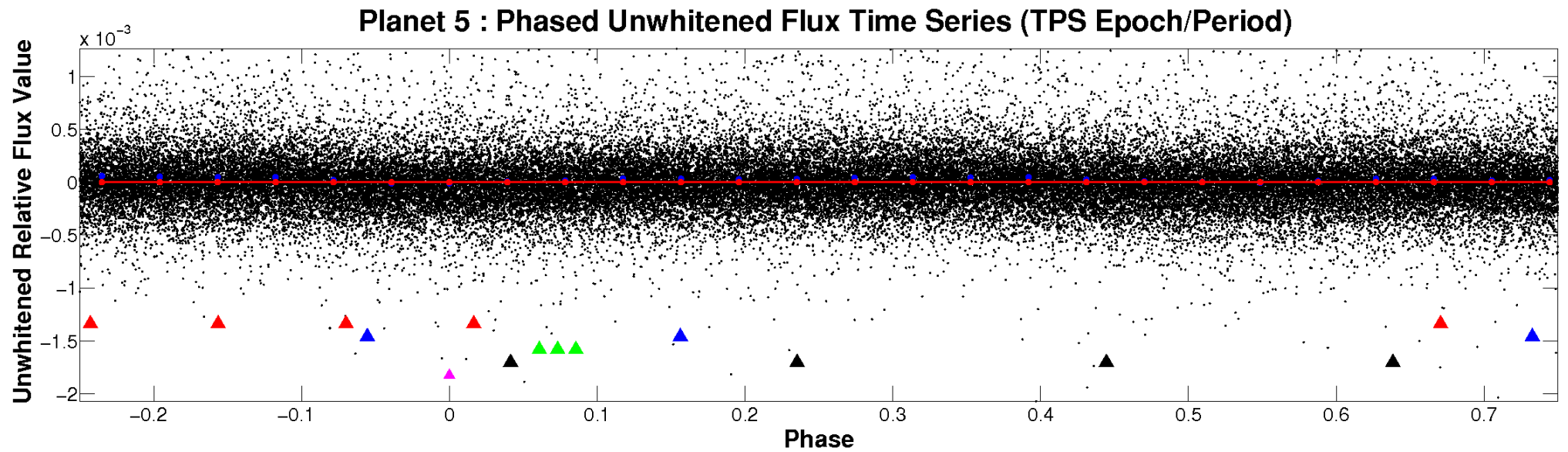


ALT Odd/Even

TCE 007919763-05

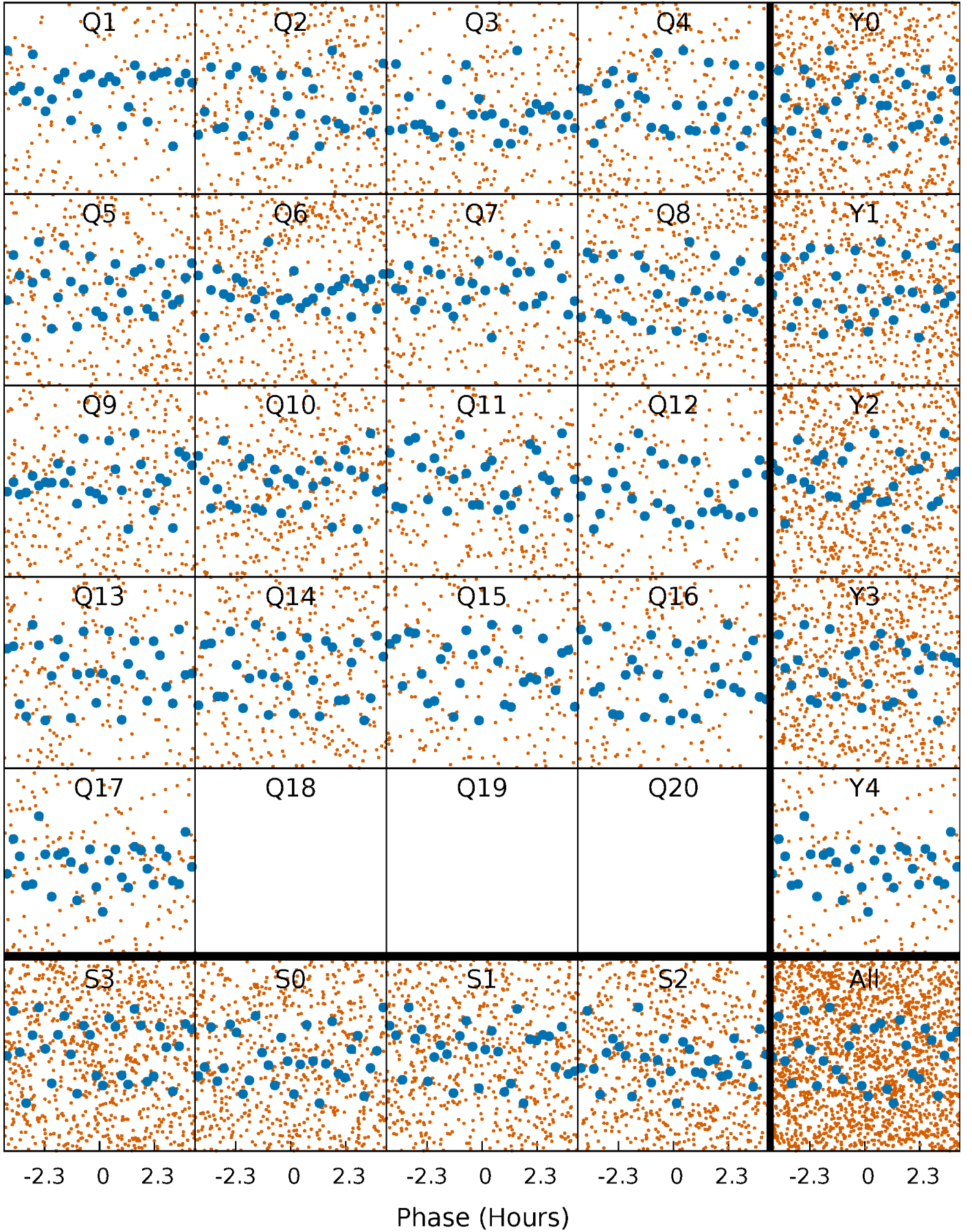


Non-Whitened Vs. Whitened Light Curve



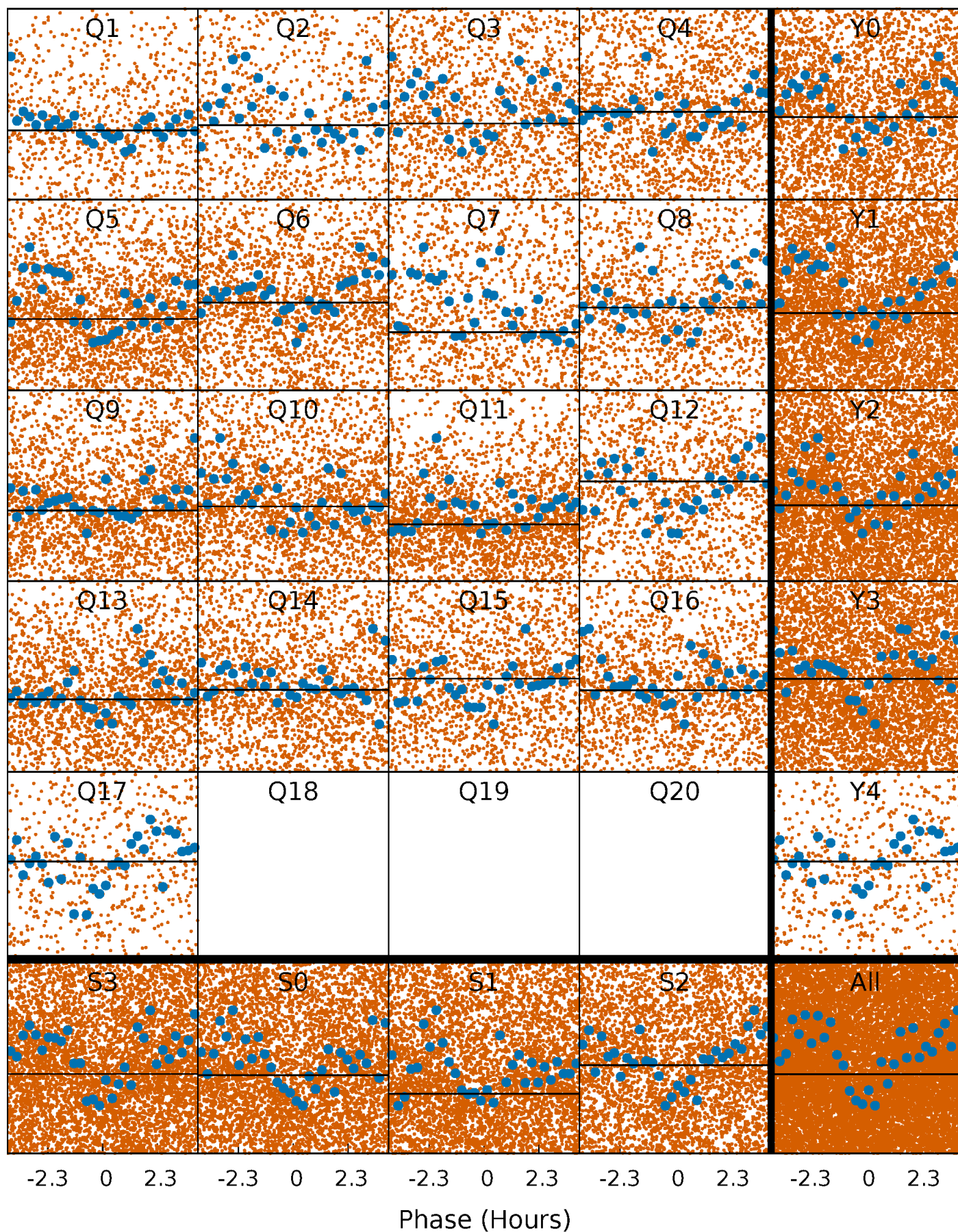
PDC Quarter-Phased Transit Curves

TCE 007919763-05 P= 0.521530 Days $T_0=131.904944$ (BKJD)



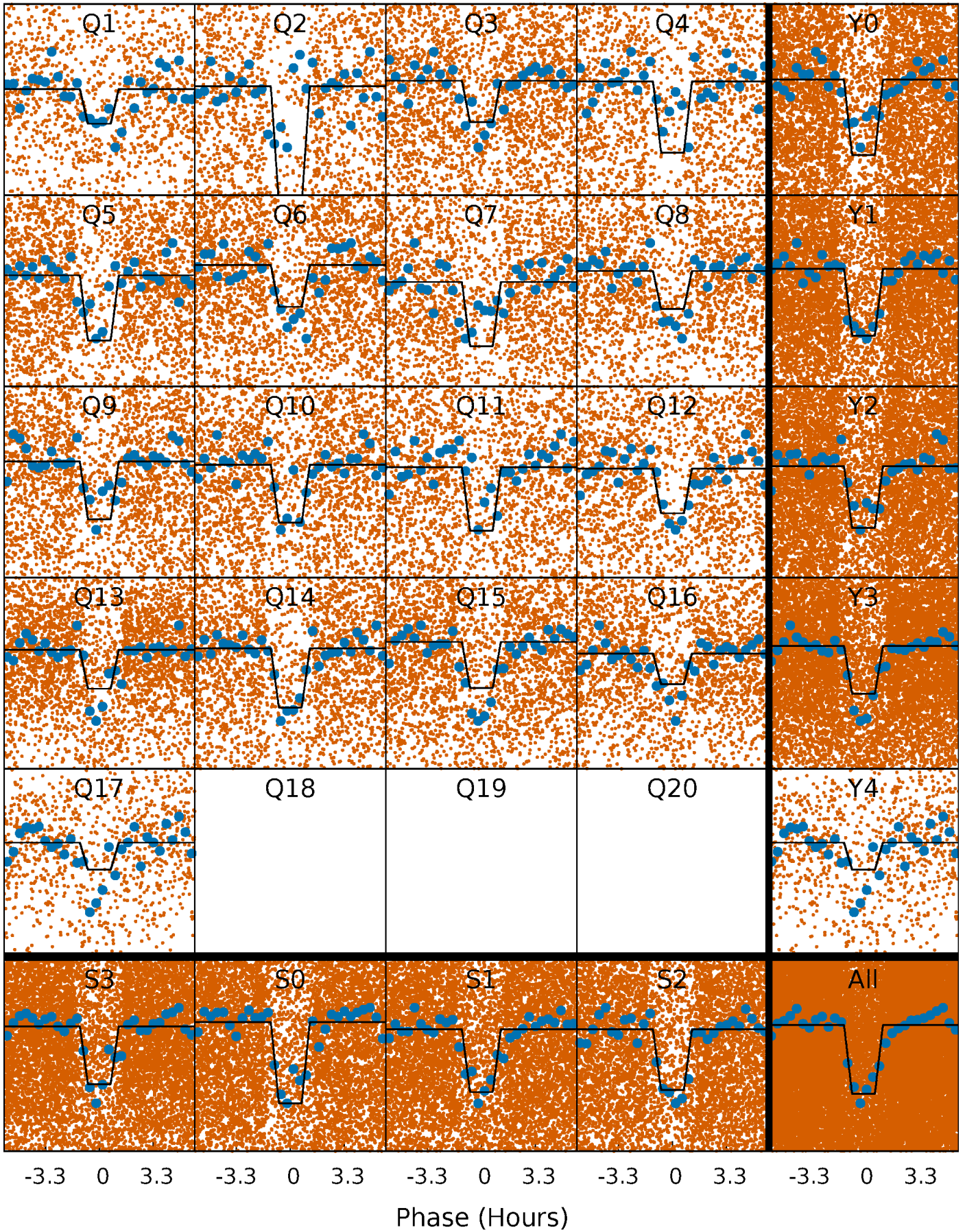
DV Quarter-Phased Transit Curves

TCE 007919763-05 P= 0.521530 Days $T_0=131.904944$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

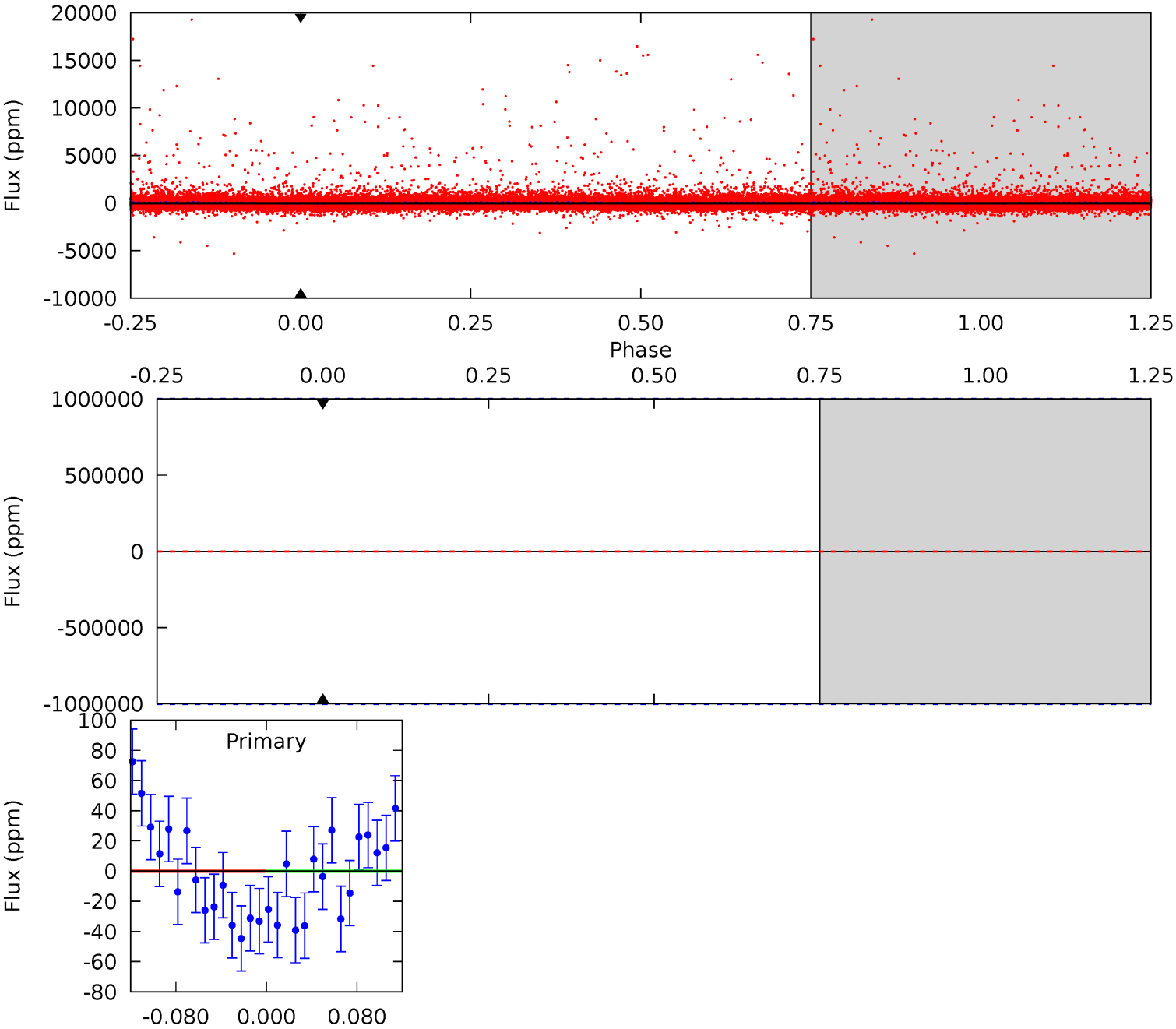
TCE 007919763-05 $P = 0.521530$ Days $T_0 = 131.902932$ (BKJD)



DV Model-Shift Uniqueness Test

007919763-05, P = 0.521530 Days, E = 131.383414 Days

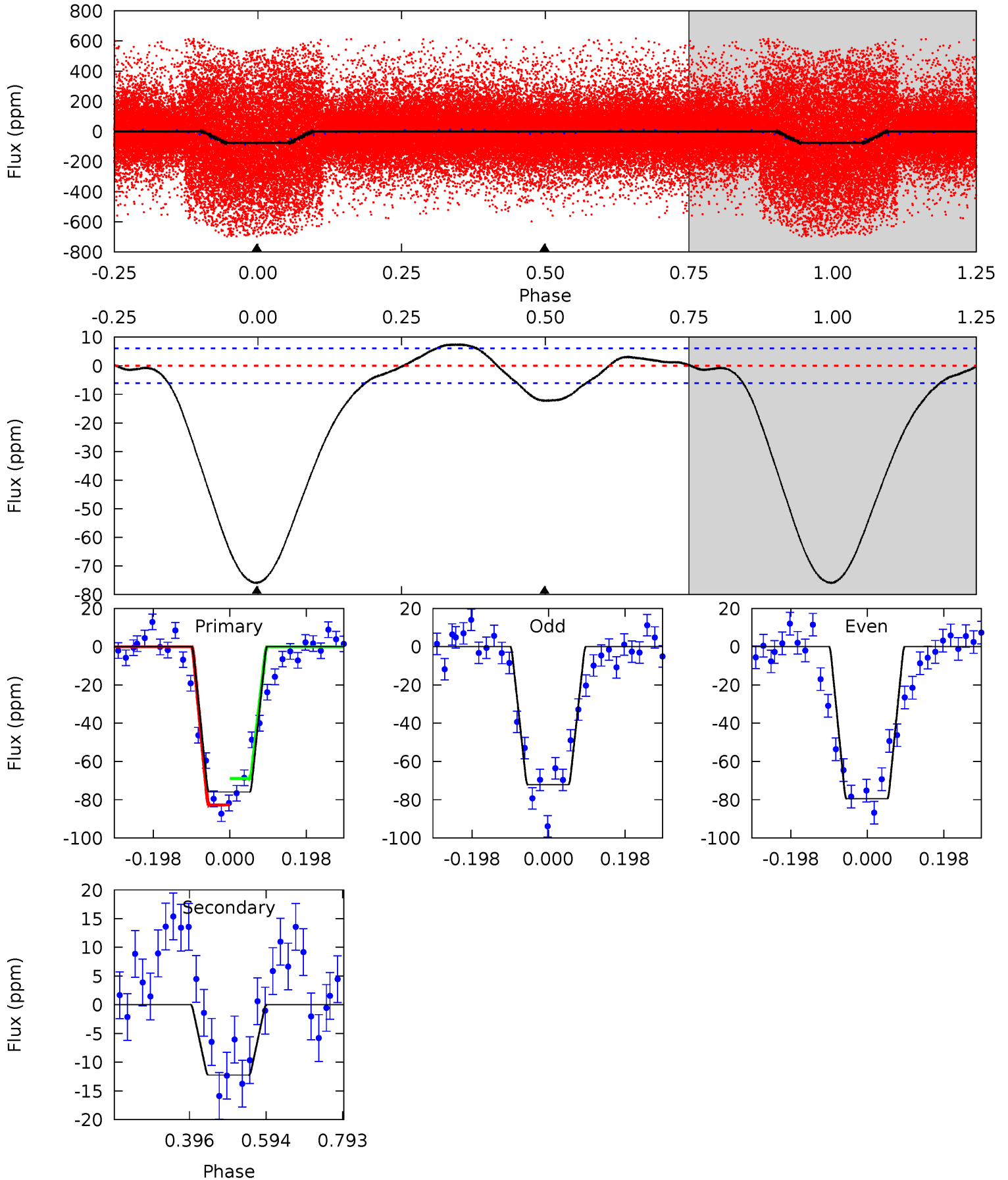
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007919763-05, P = 0.521530 Days, E = 131.381402 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
55.3	8.91	0	0	4.42	1.29	1.58	55.3	55.3	8.91	8.91	2.68	1.03	0.09	5.03



Stellar Parameters For KIC 007919763

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5470^{+164}_{-147}	$4.381^{+0.168}_{-0.252}$	$-0.100^{+0.300}_{-0.250}$	$0.970^{+0.350}_{-0.175}$	$0.825^{+0.121}_{-0.070}$	$1.273^{+1.014}_{-0.749}$
	+3%/-3%	+4%/-6%	+300%/-250%	+36%/-18%	+15%/-8%	+80%/-59%
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 007919763-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$8.24^{+8.53}_{-5.67}$	3073^{+293}_{-190}	4598^{+13643}_{-20832}	$2.982^{+204.306}_{-153.166}$
Alt.	-12 ± 1	$7.60^{+8.08}_{-5.49}$	3058^{+259}_{-206}	-3045^{+494}_{-177}	$0.017^{+0.195}_{-0.013}$

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

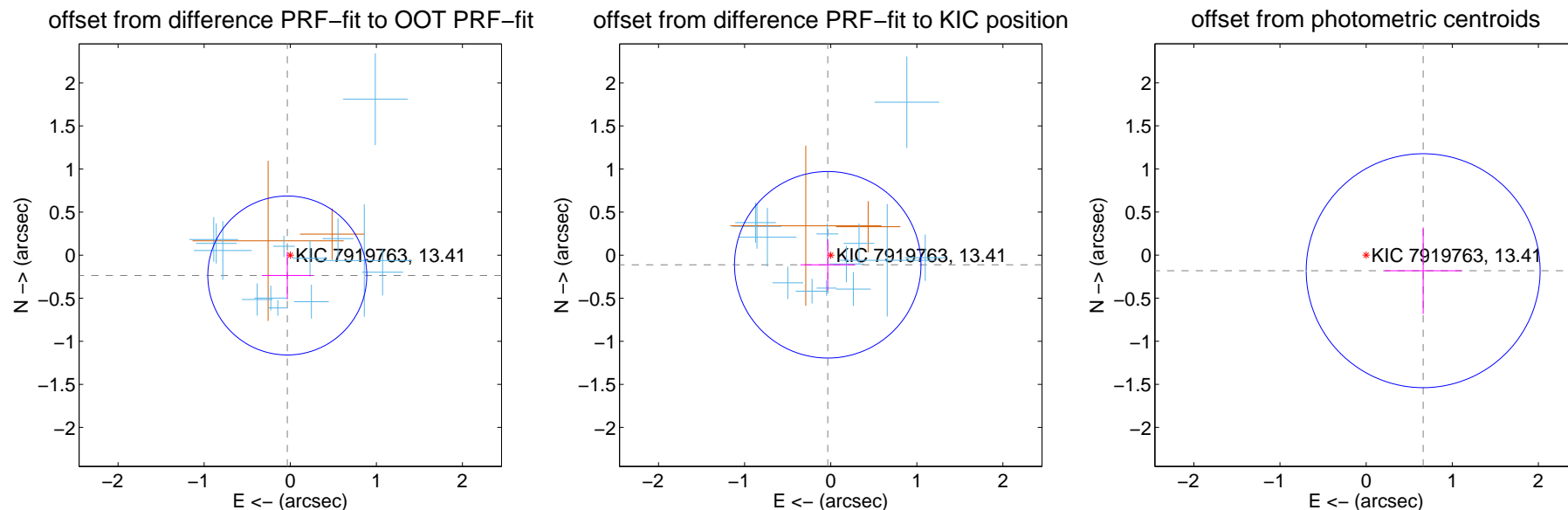
DV Centroid Data

Supplemental centroid analysis for 007919763-05. Kepler magnitude: 13.41. Transit SNR -1.00

There are 13 quarters with good PRF difference image offsets

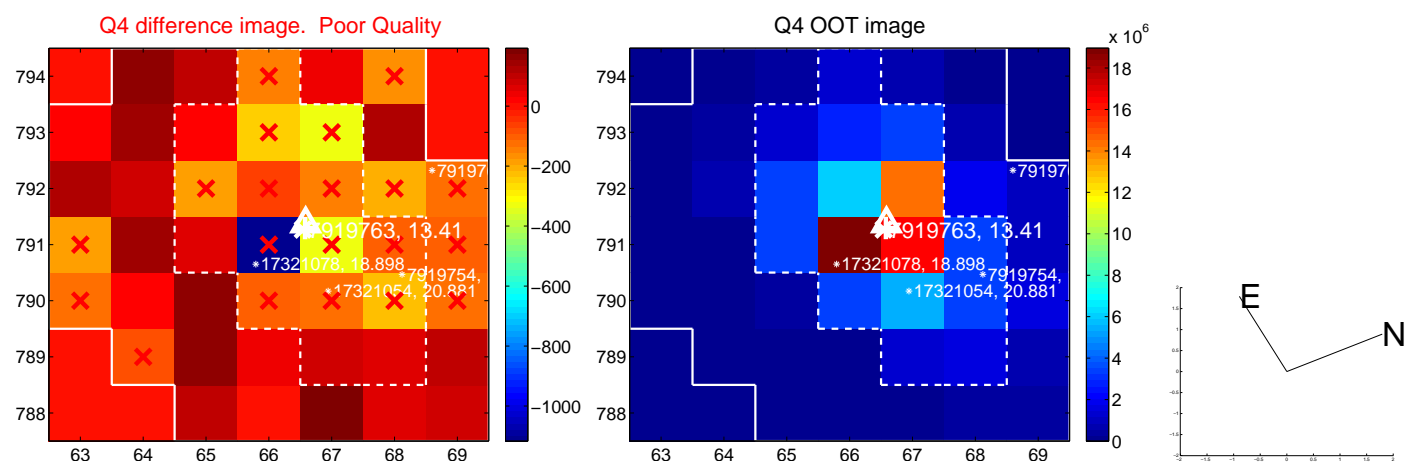
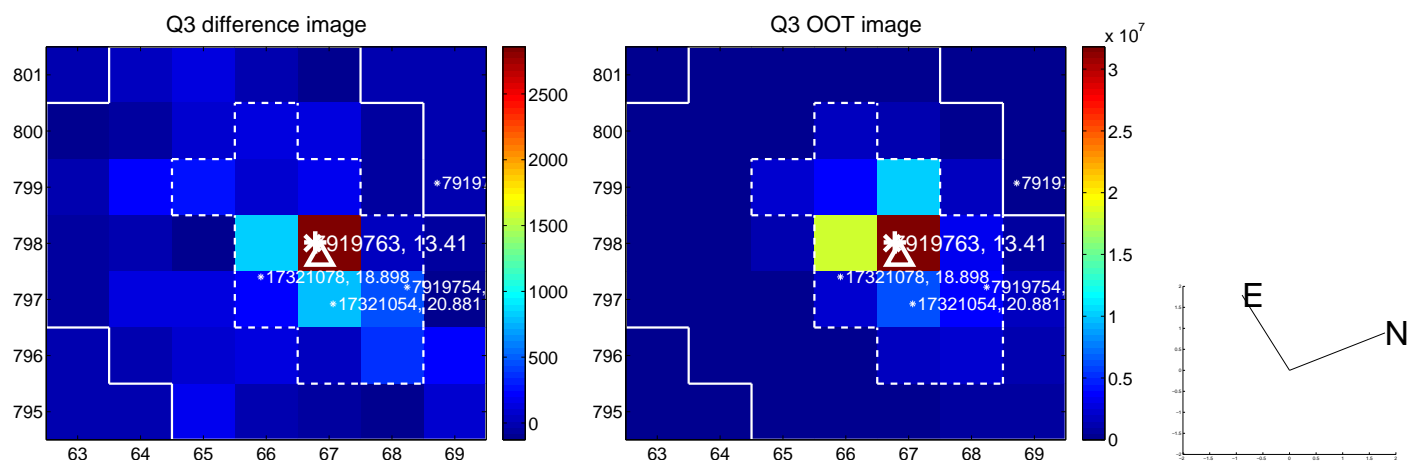
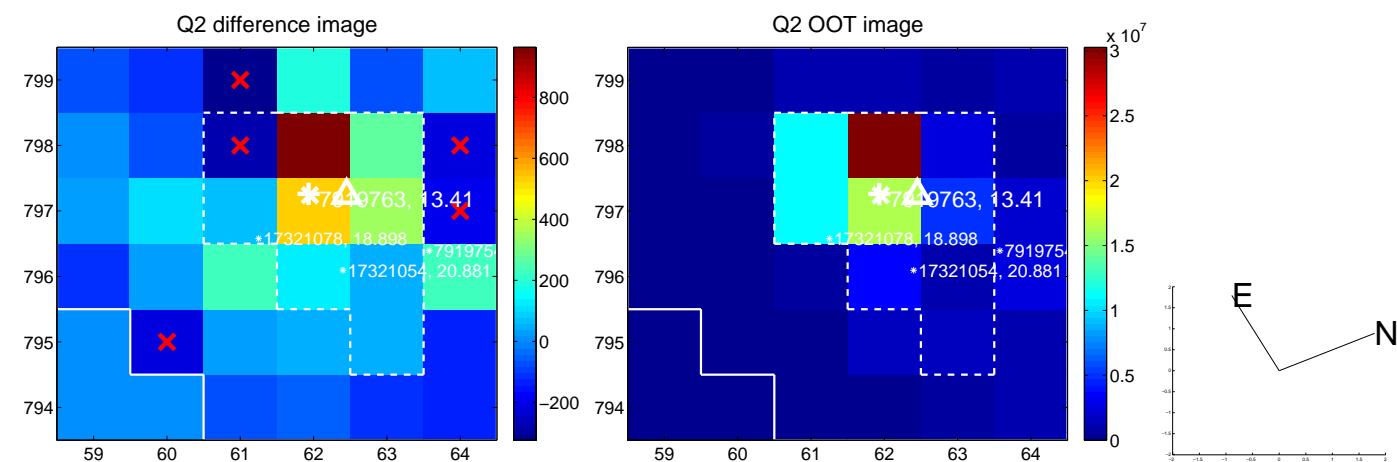
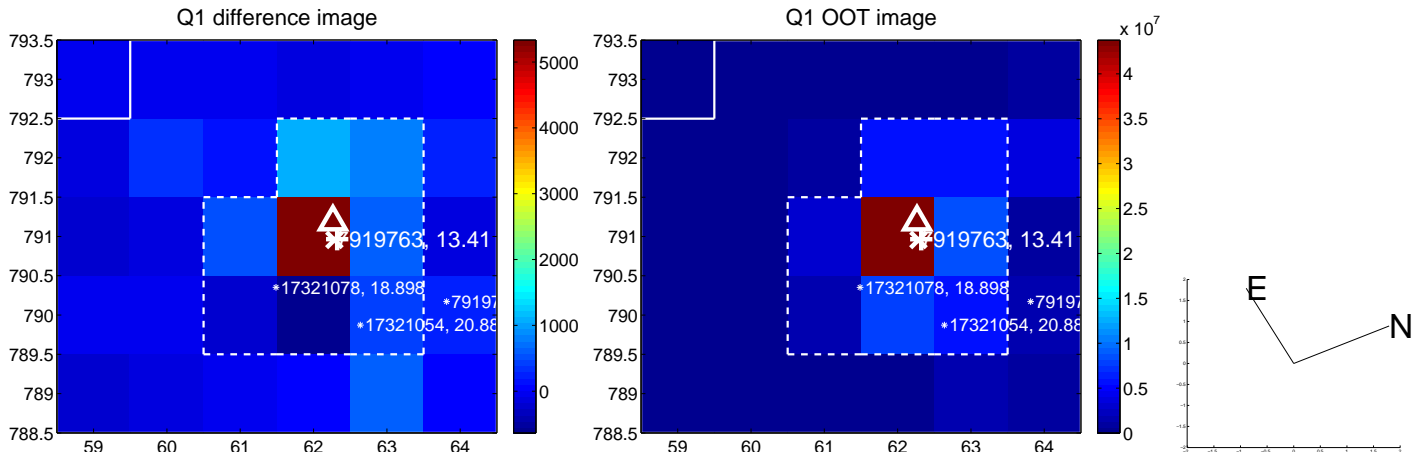
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.239 ± 0.308	0.78	0.034 ± 0.296	-0.236 ± 0.276
PRF-fit source offset from KIC position	0.117 ± 0.361	0.32	0.034 ± 0.318	-0.112 ± 0.295
photometric centroid source offset	0.69 ± 0.45	1.52	-0.66 ± 0.45	-0.18 ± 0.50

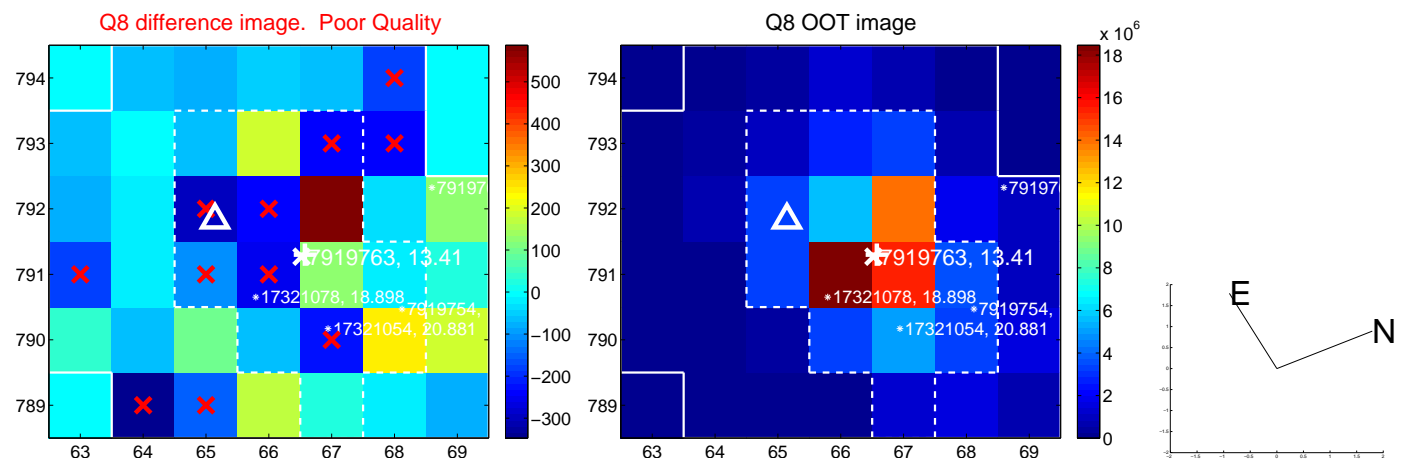
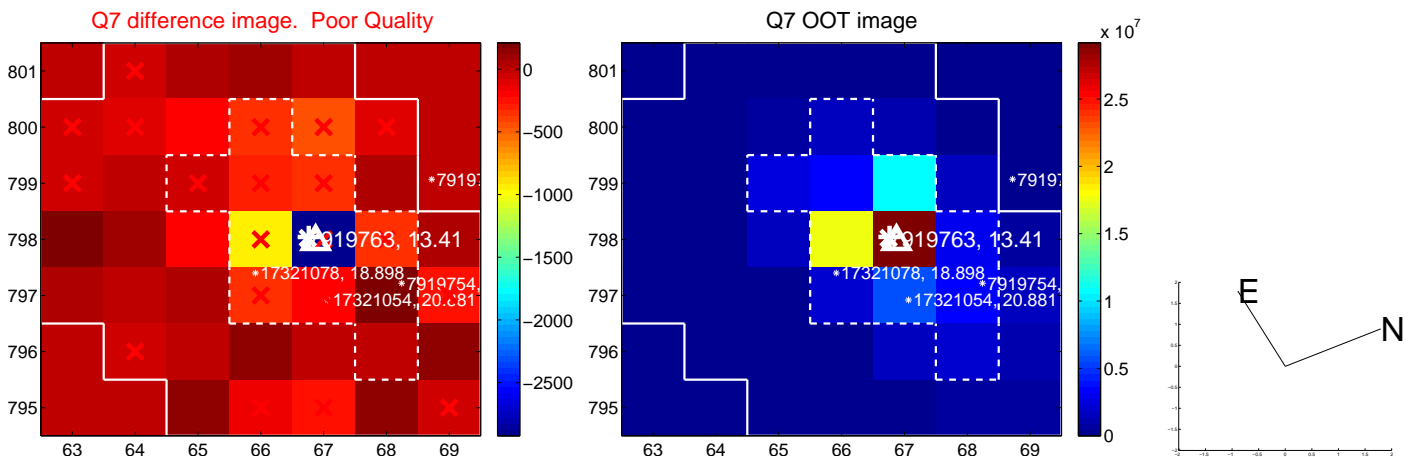
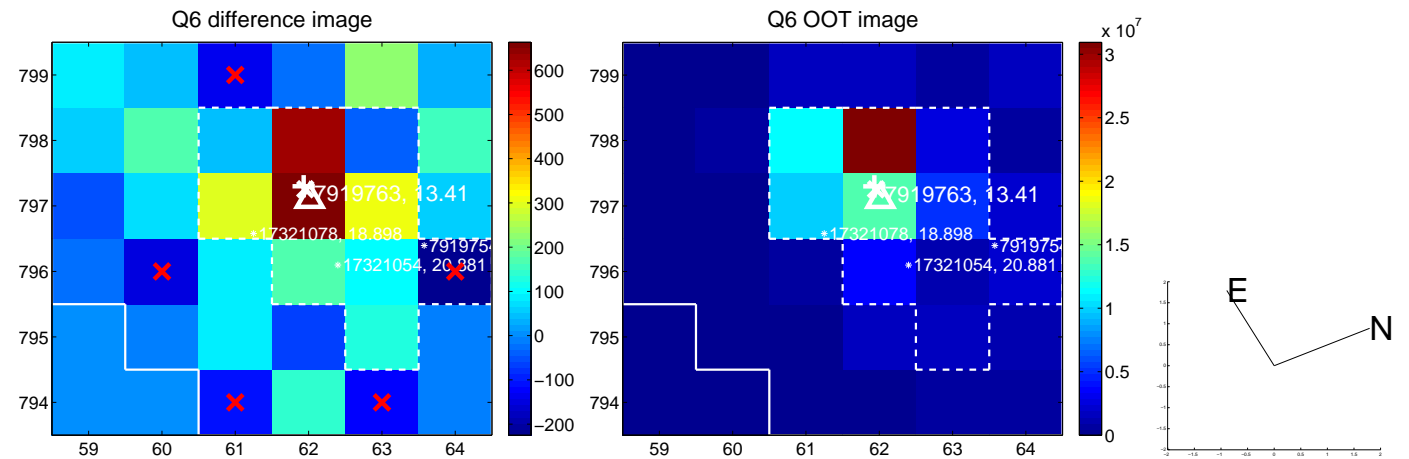
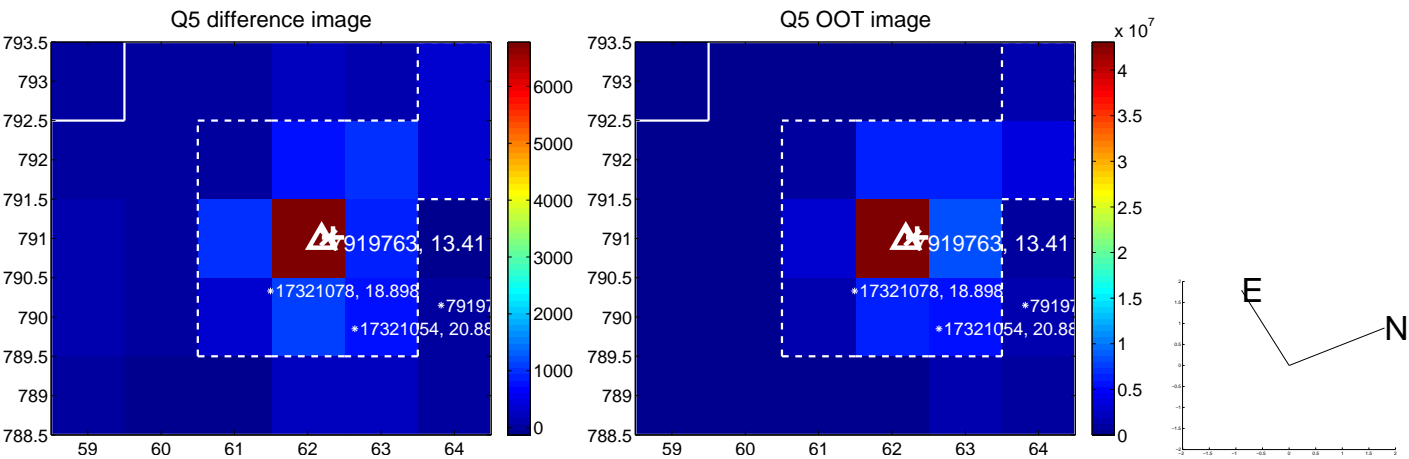


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

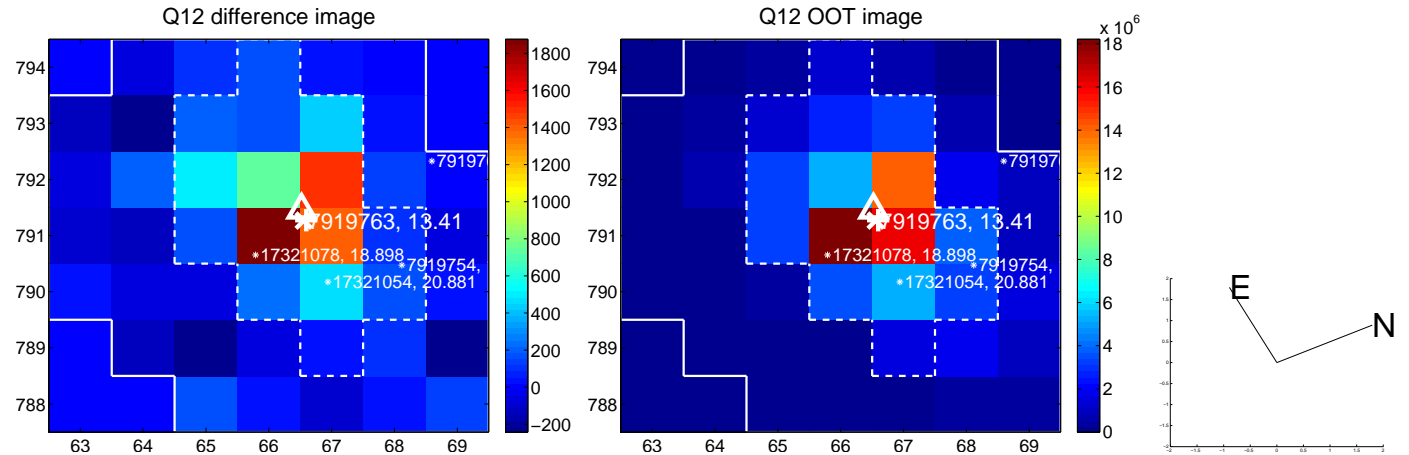
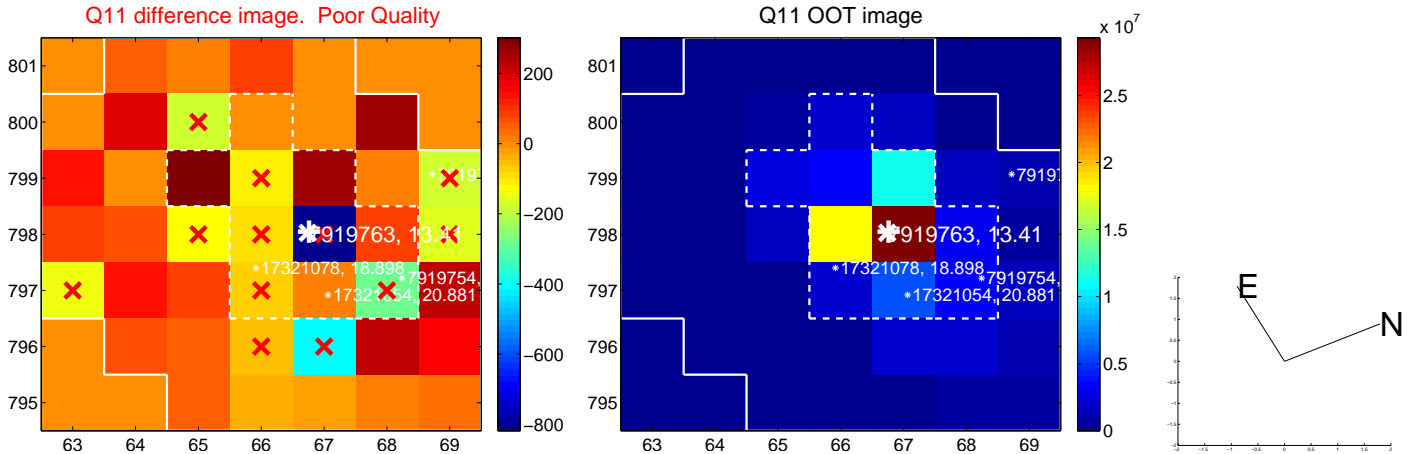
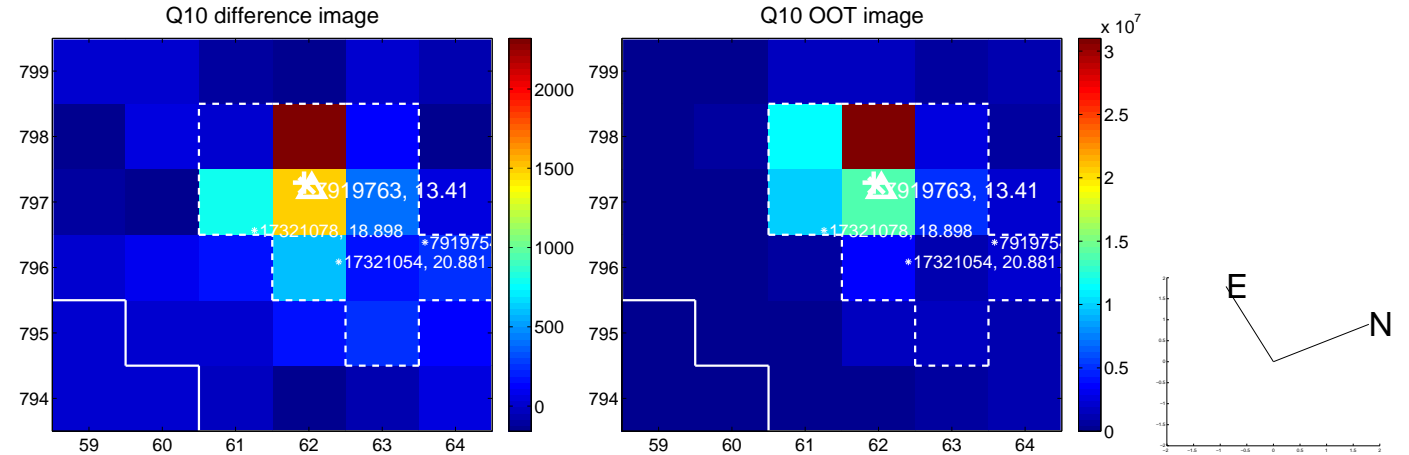
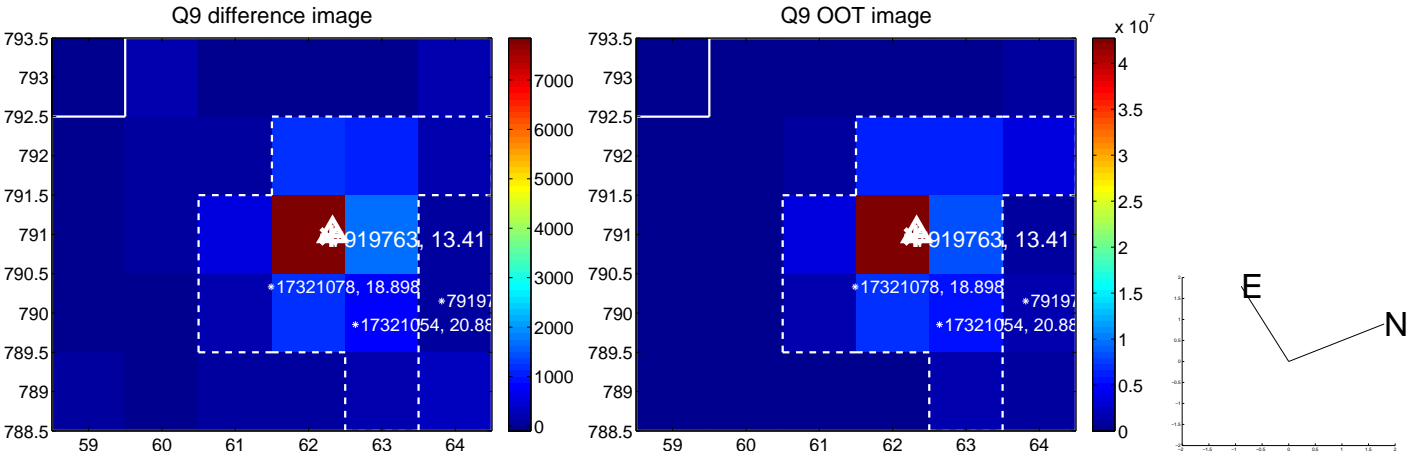
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



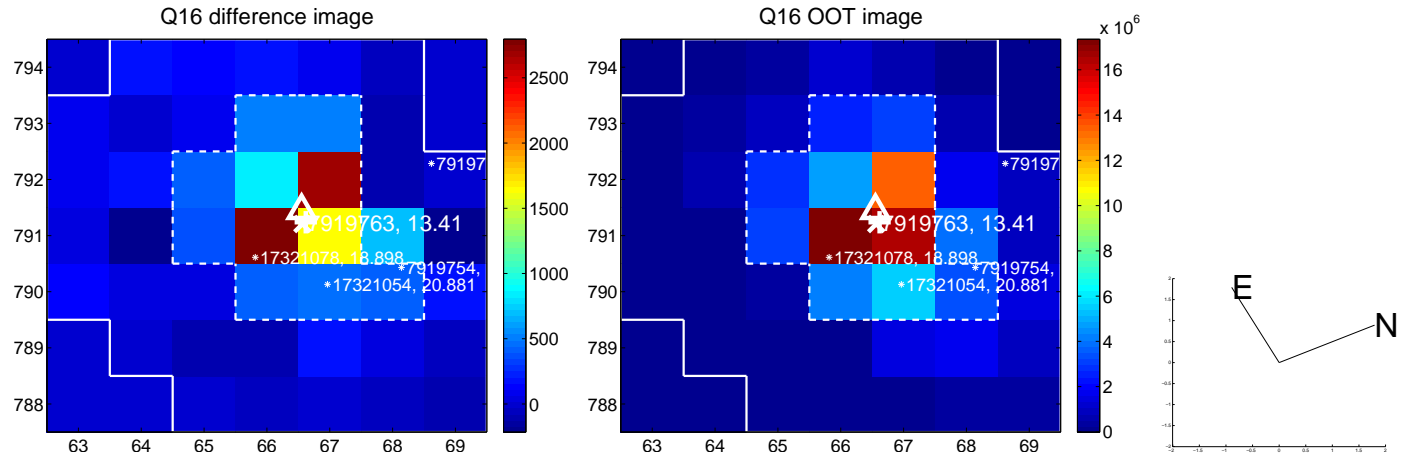
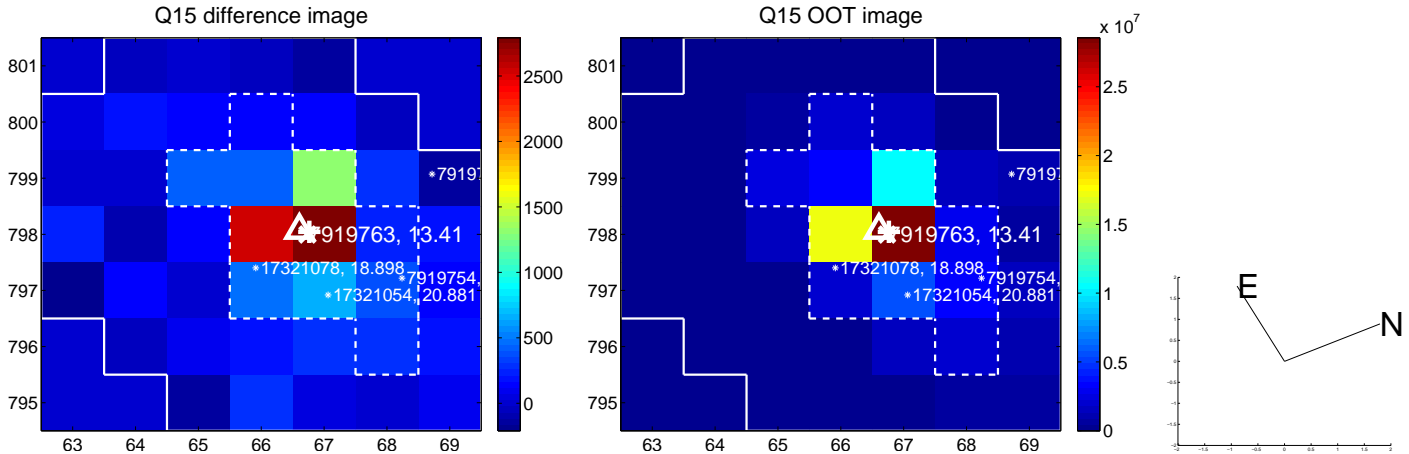
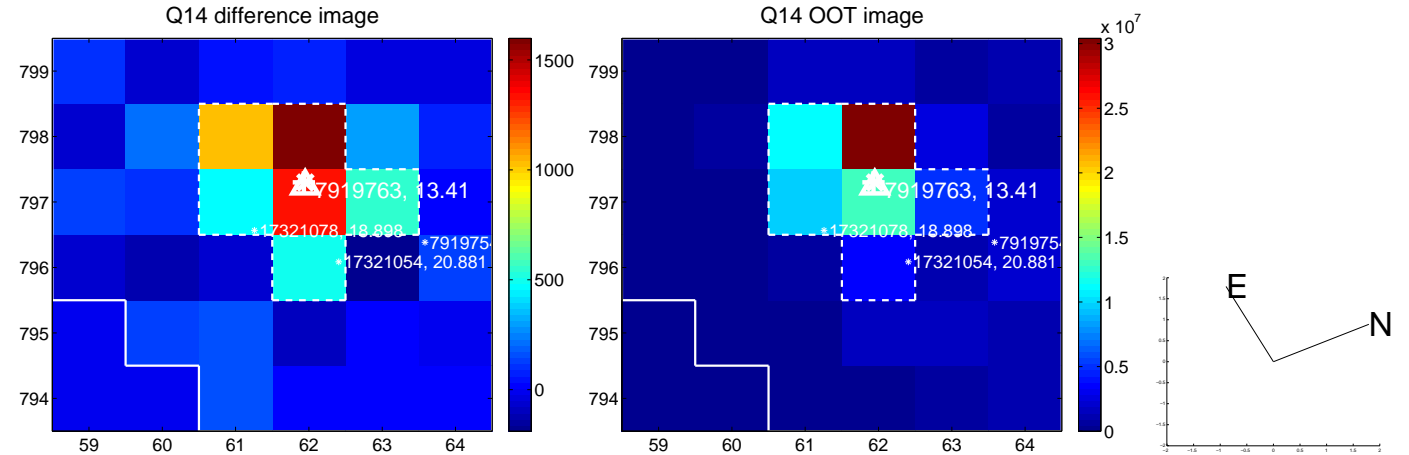
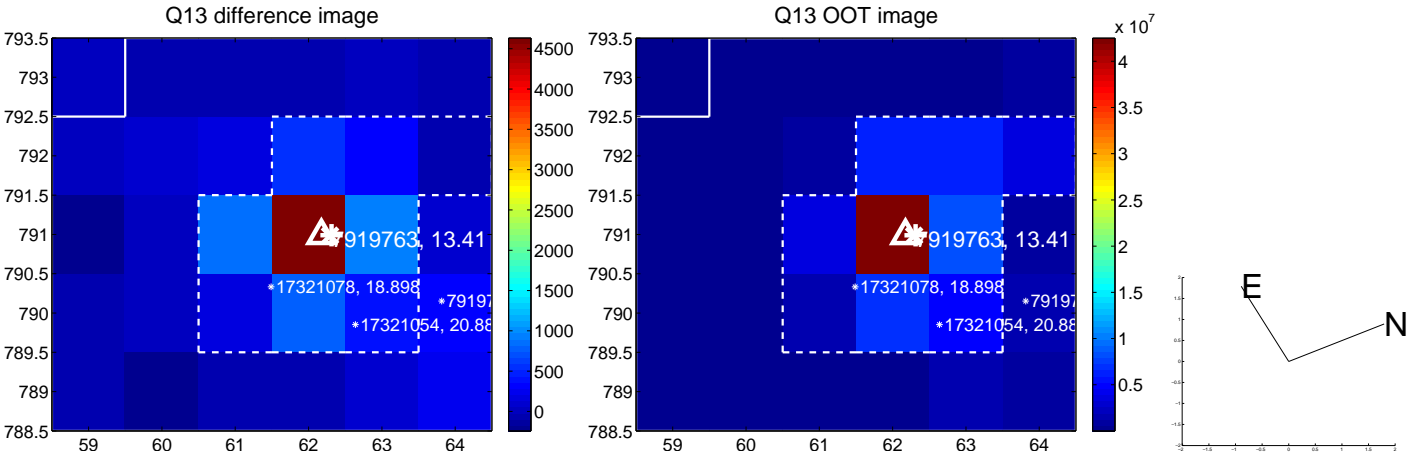
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



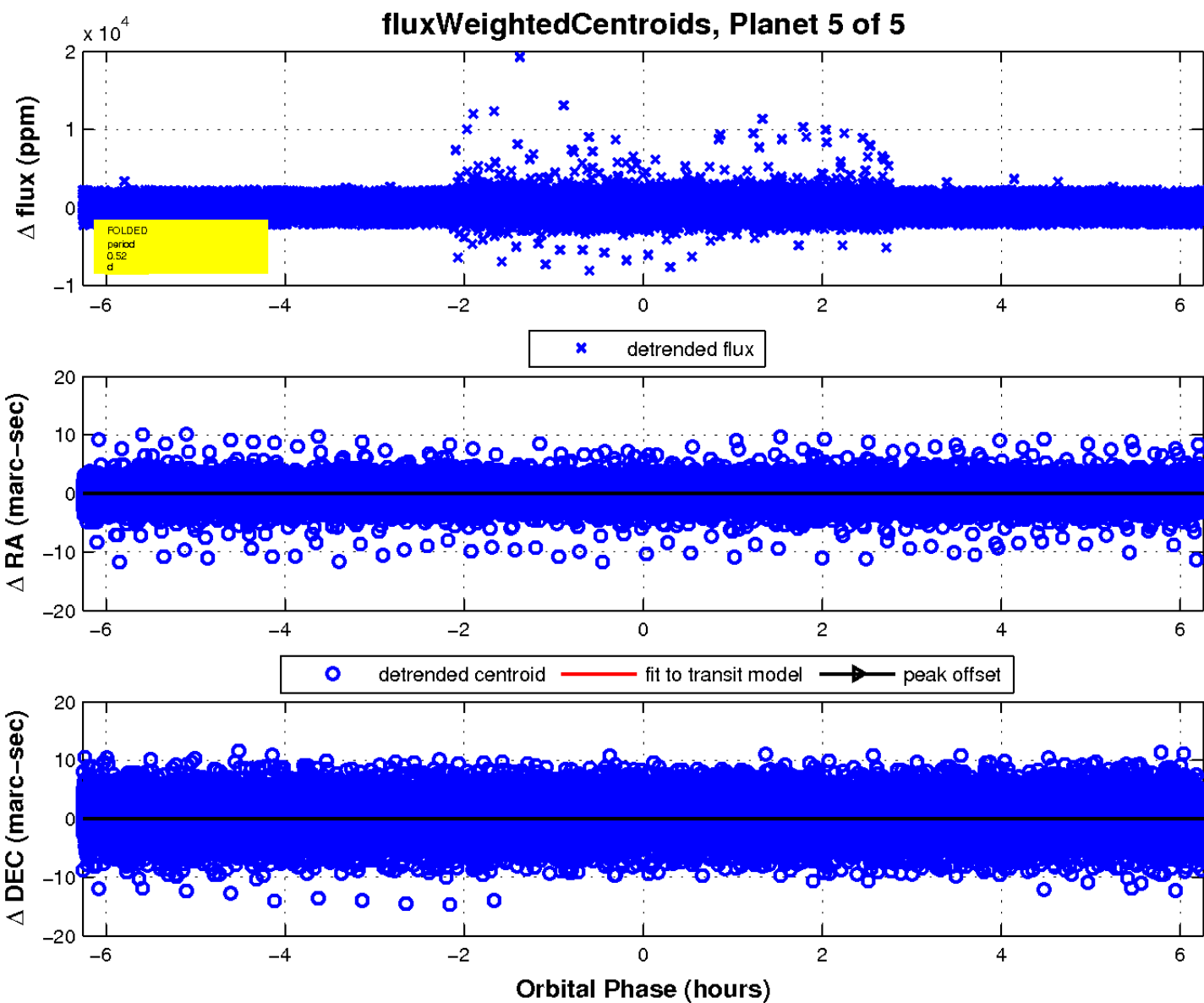
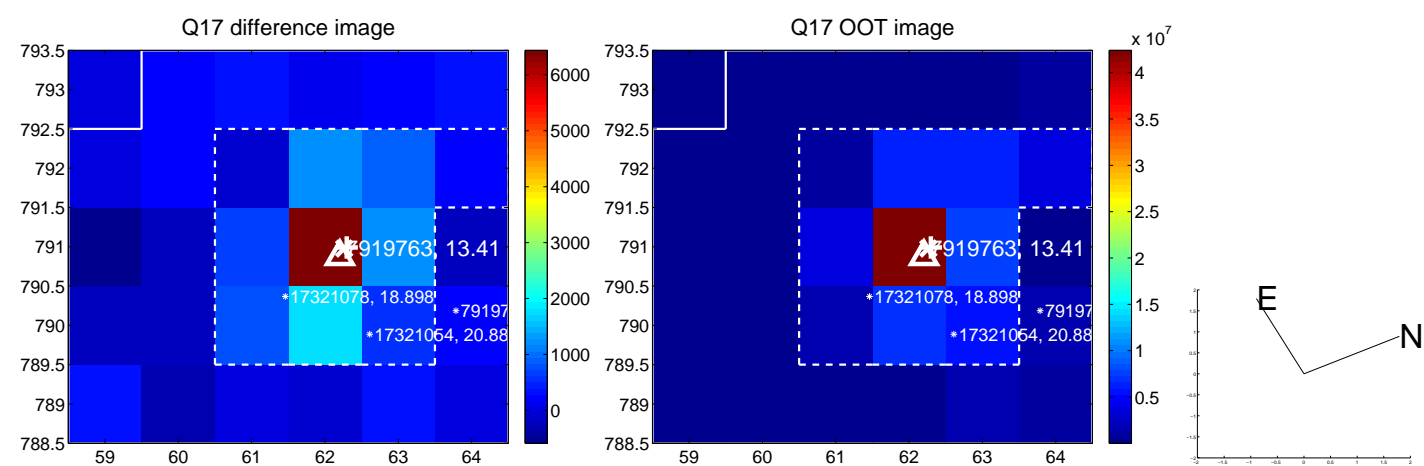
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

