

KIC 011920526

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})
011920526-01	OBS	No	1.668210	133.168987	641.2	6.000	8.0	-1.0	0.84	4816	2.04	518.18
011920526-02	OBS	No	194.500328	193.512161	691.0	18.471	12.3	6.3	0.84	4816	3.31	0.91
011920526-03	OBS	No	1.668191	132.366868	69.6	12.315	8.1	11.3	0.84	4816	0.67	518.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011920526-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_NOFITS—HALO_GHOST
011920526-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
011920526-03	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_RESOLVED_OFFSET—HALO_GHOST

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

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

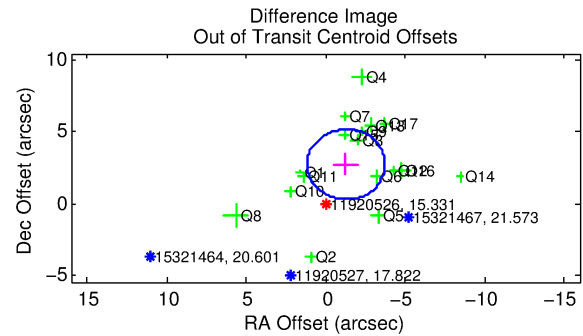
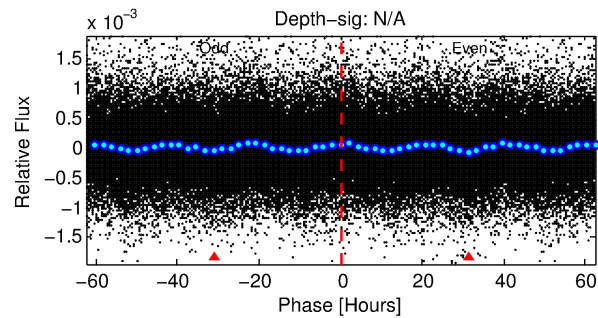
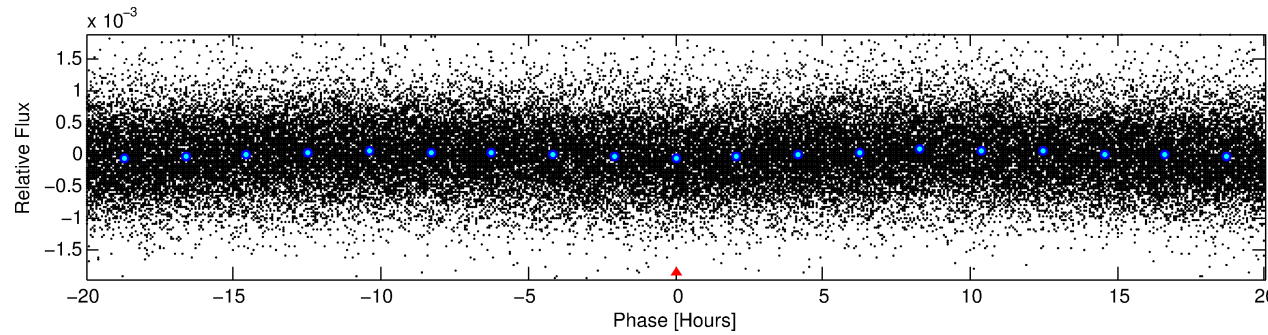
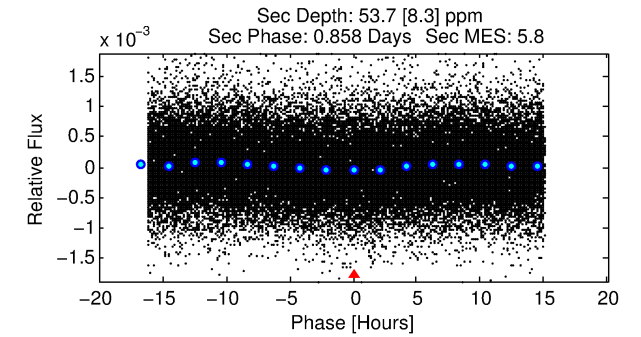
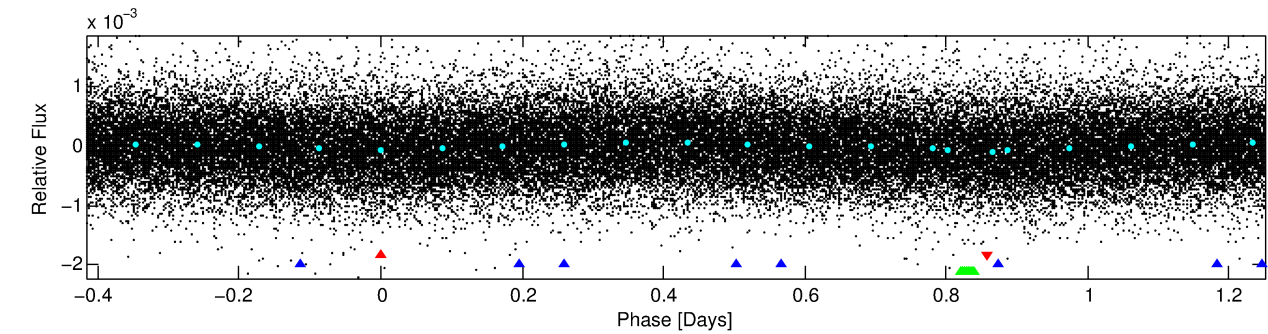
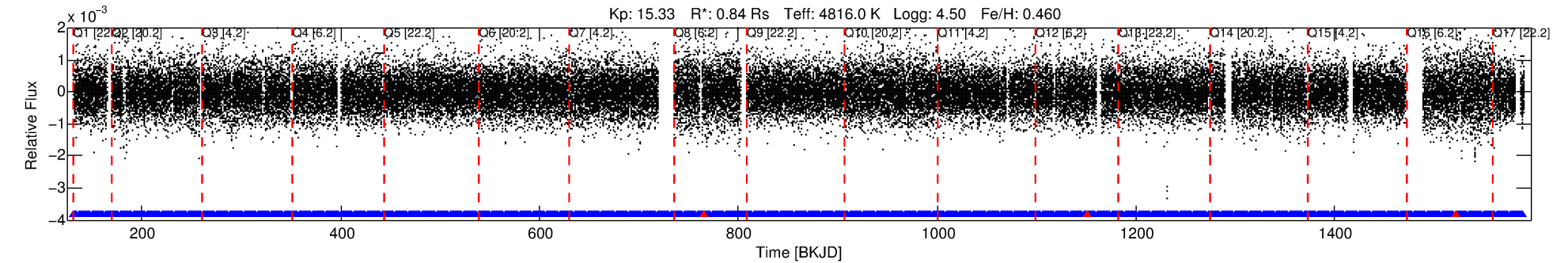
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011920526-01

No Significant Match Found

DV One-Page Summary

KIC: 11920526 Candidate: 1 of 3 Period: 1.668 d



TPS TCE Results:

Period = 1.66821 d
Epoch = 133.1690 BKJD

DV fit results are unavailable

DV Diagnostic Results:

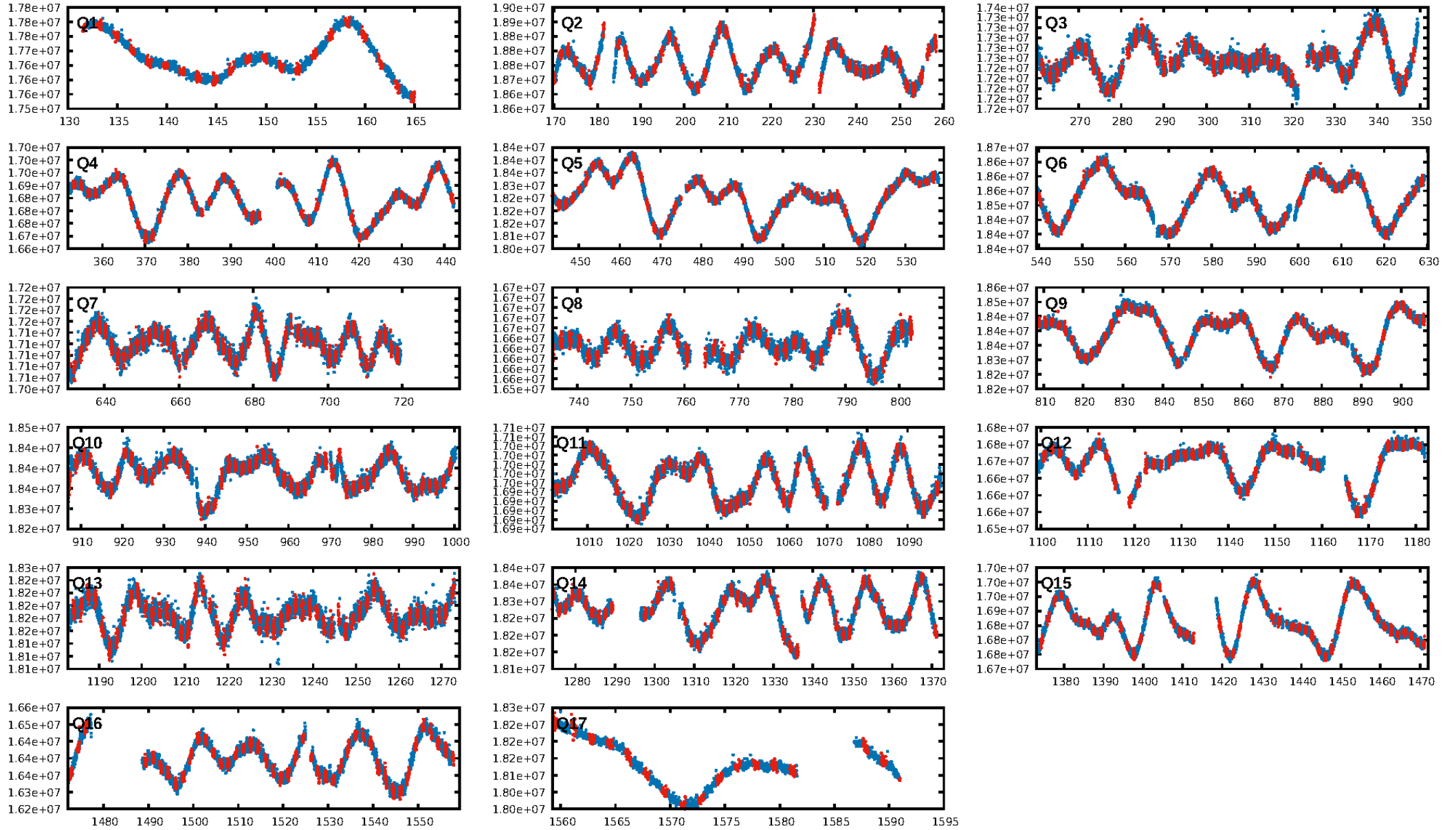
ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 100.0% [238.30 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [778/781]
GhostDiagnostic-chr: -0.05321

Centroid-sig: 4.7%
Centroid-so: 2.047 arcsec [1.34 σ]
OotOffset-rm: 3.020 arcsec [3.69 σ]
KicOffset-rm: 3.226 arcsec [4.06 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.00 [0/17]
DiffImageOverlap-fno: 0.00 [0/17]

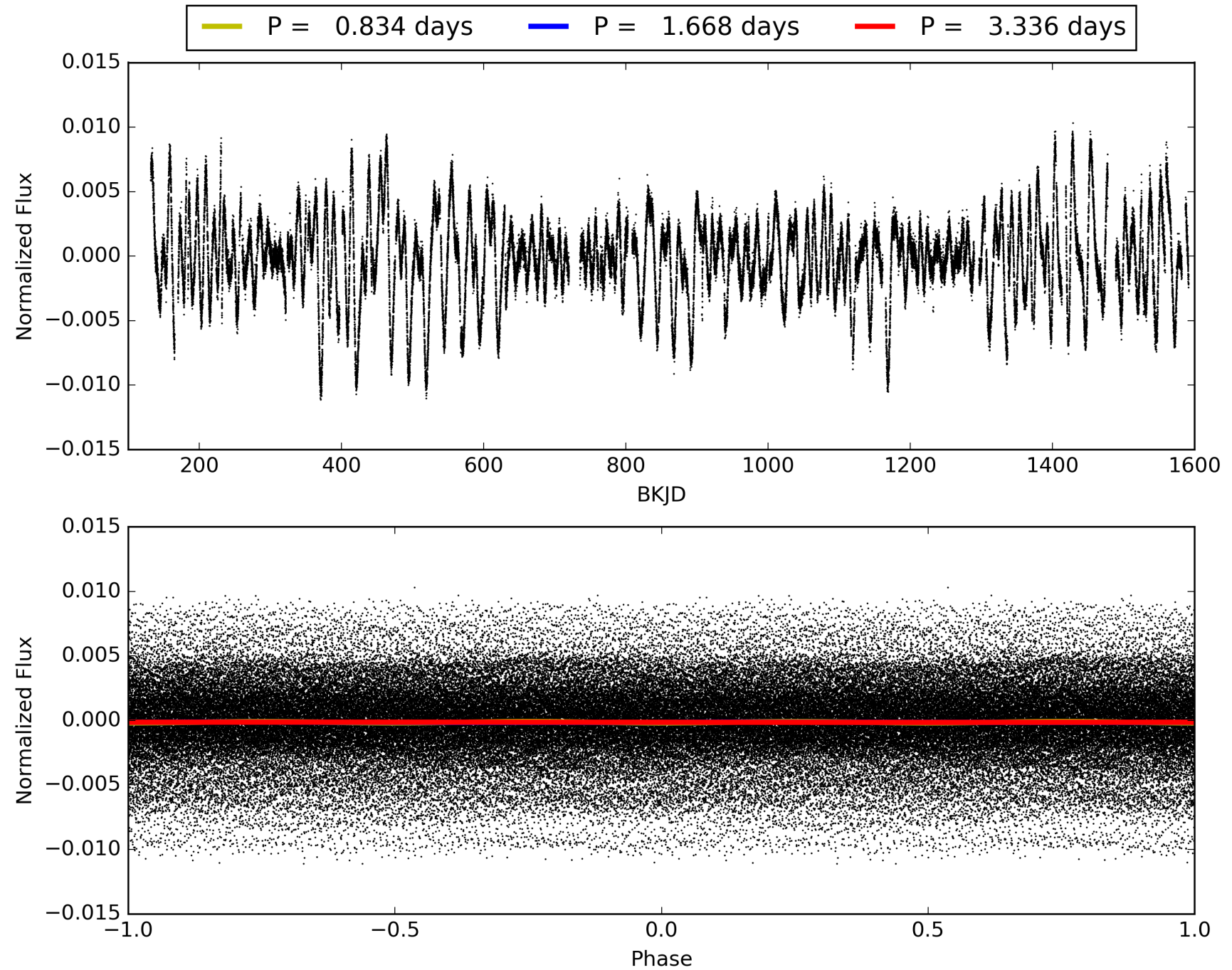
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 03:02:49 Z

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

TCE 011920526-01, PDC Light Curves

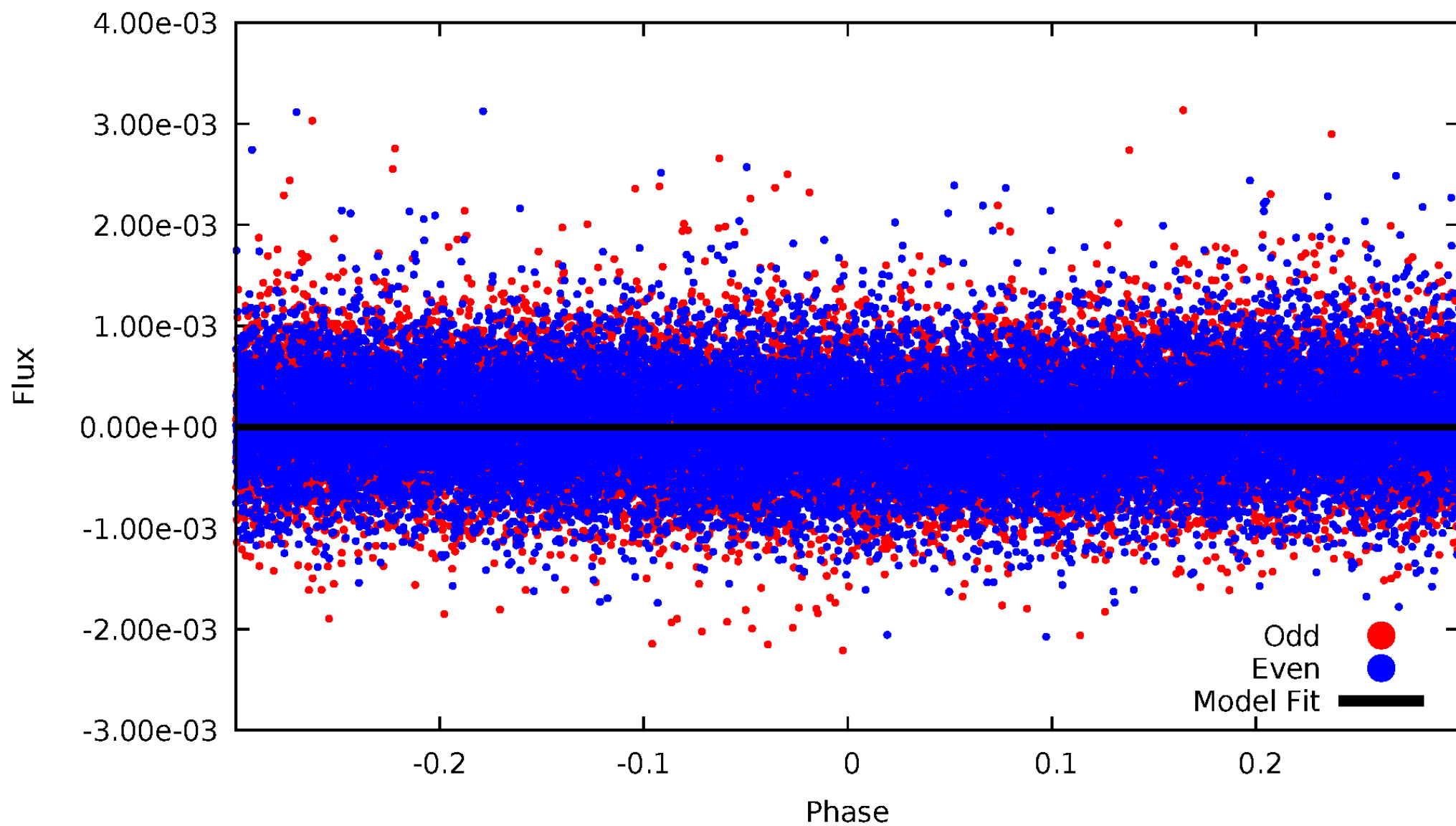


TCE 011920526-01



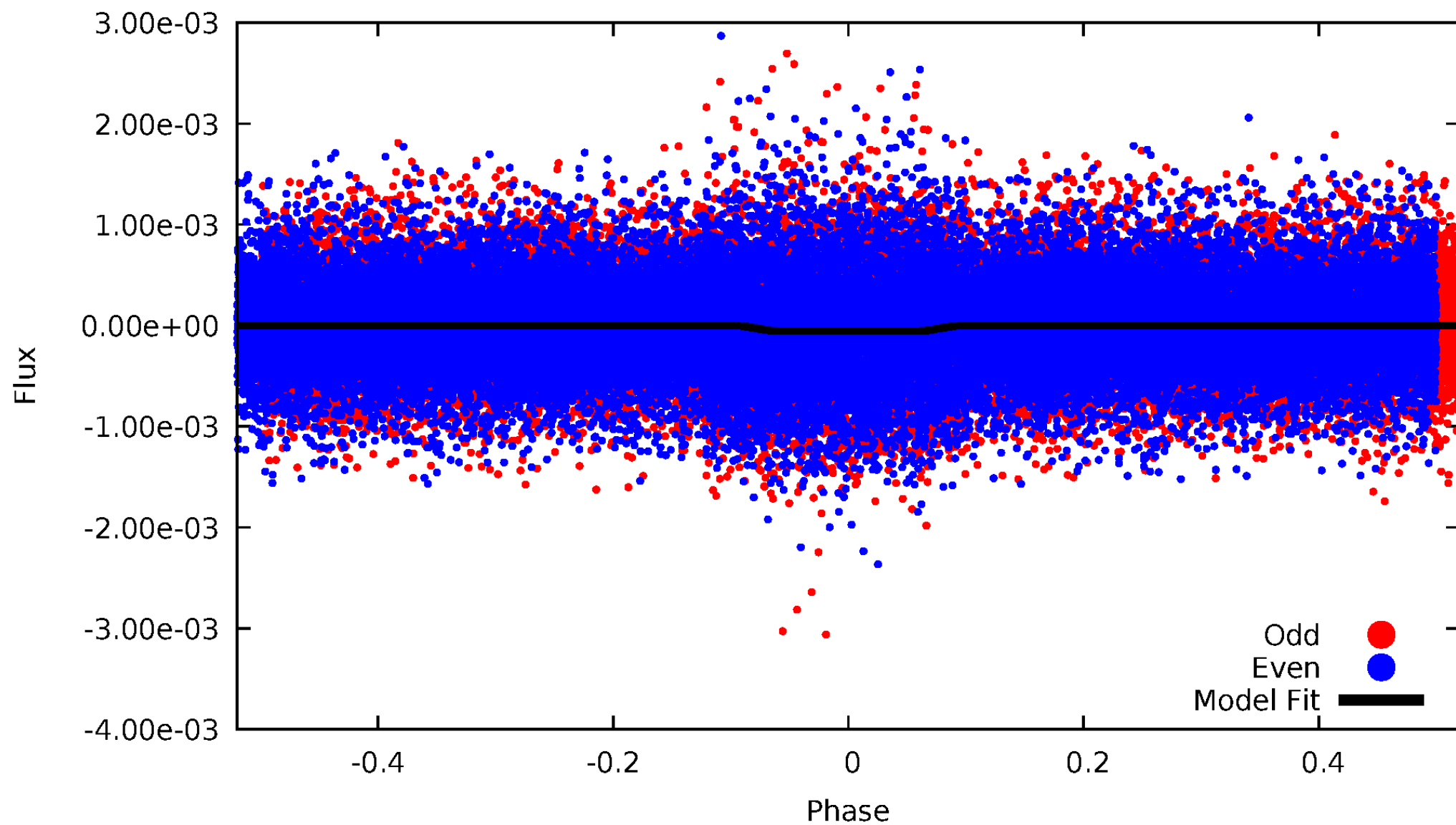
DV Odd/Even

TCE 011920526-01

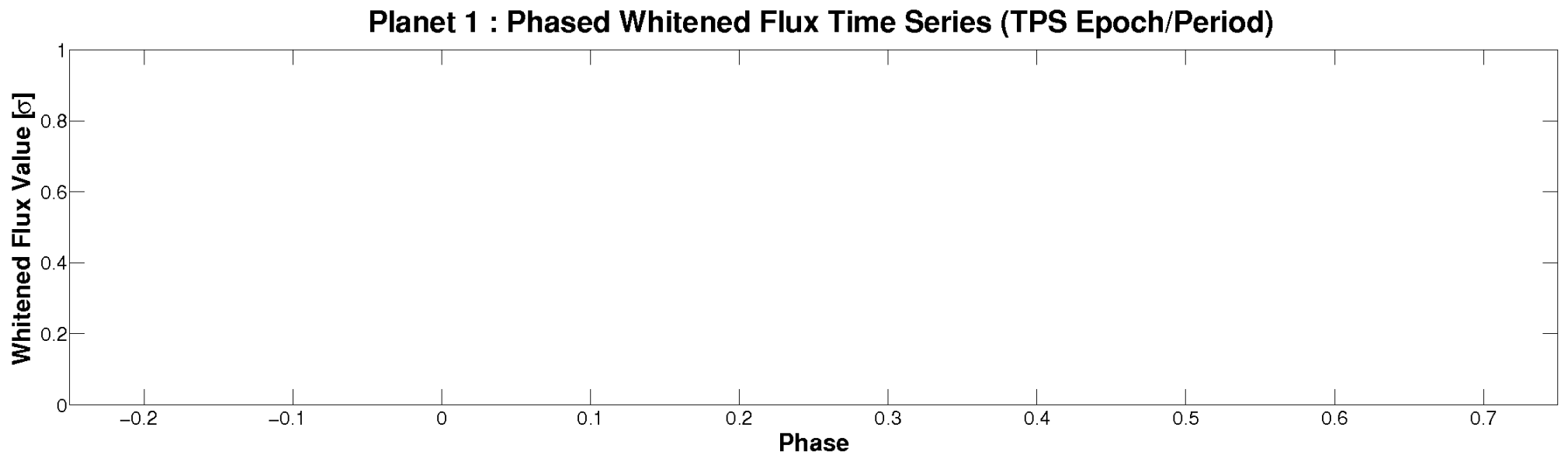
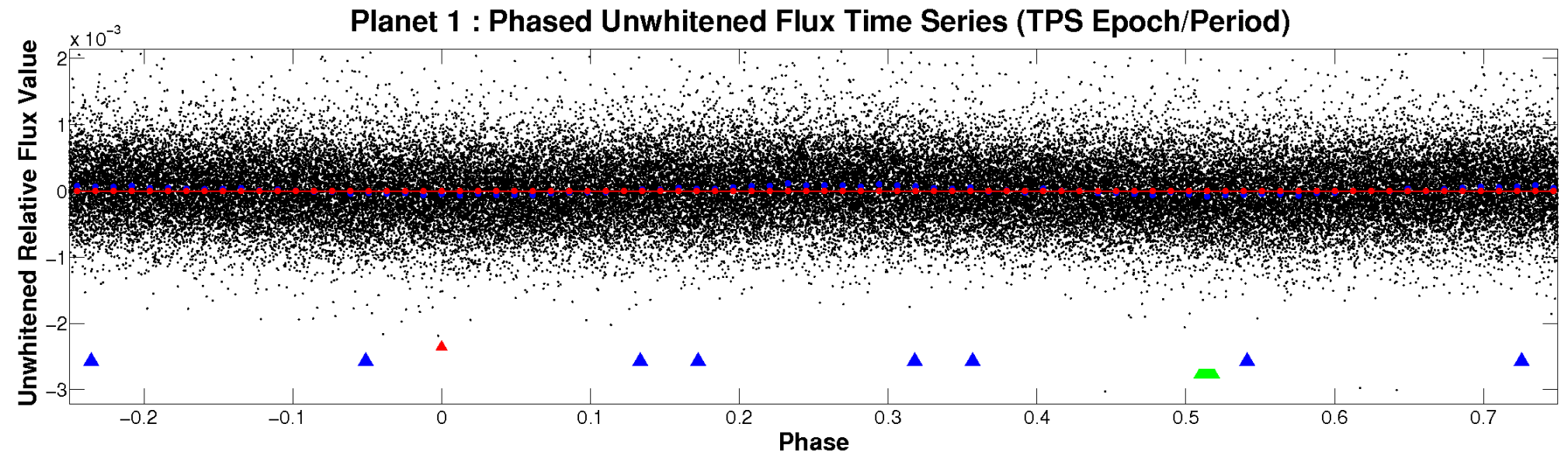


ALT Odd/Even

TCE 011920526-01

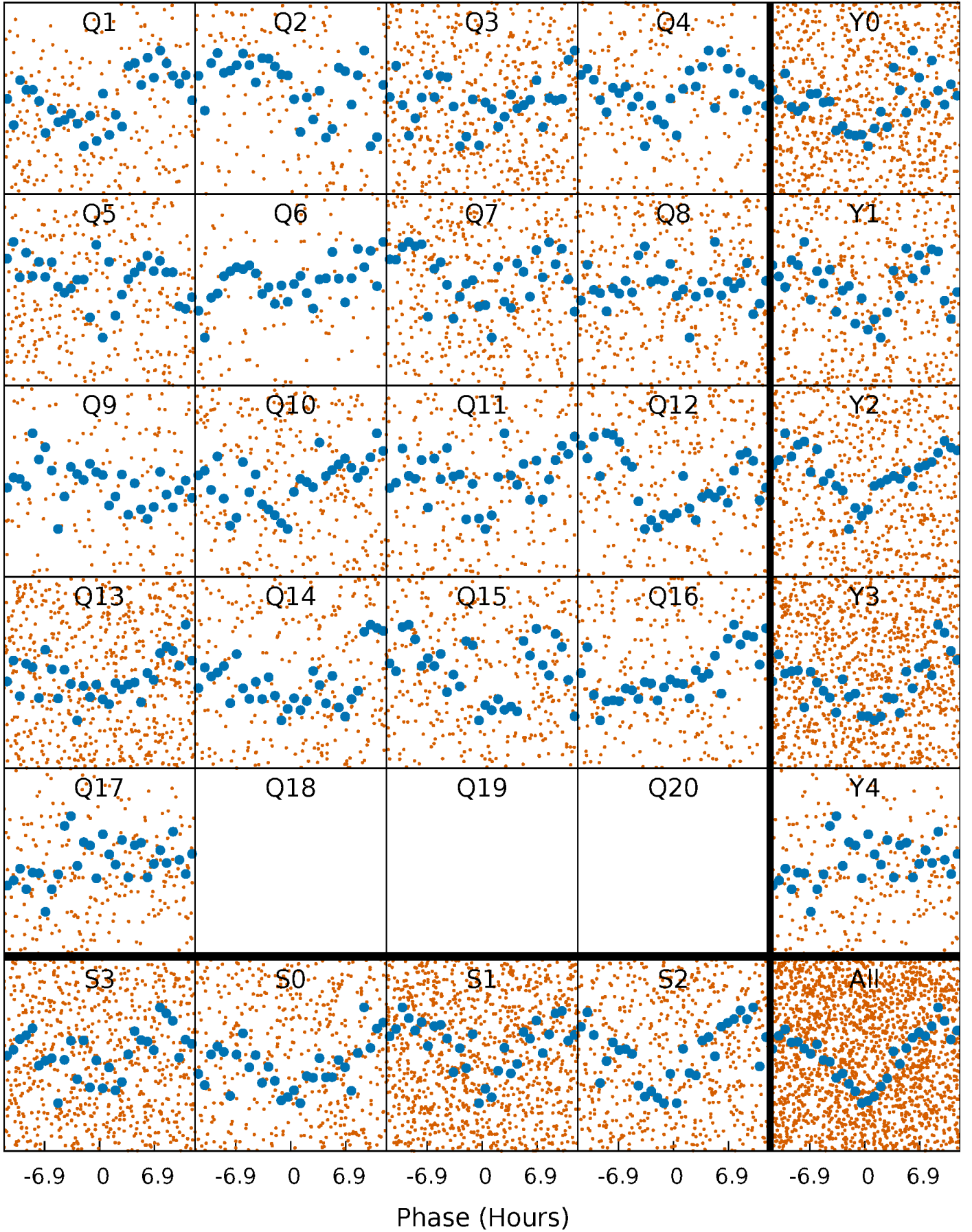


Non-Whitened Vs. Whitened Light Curve



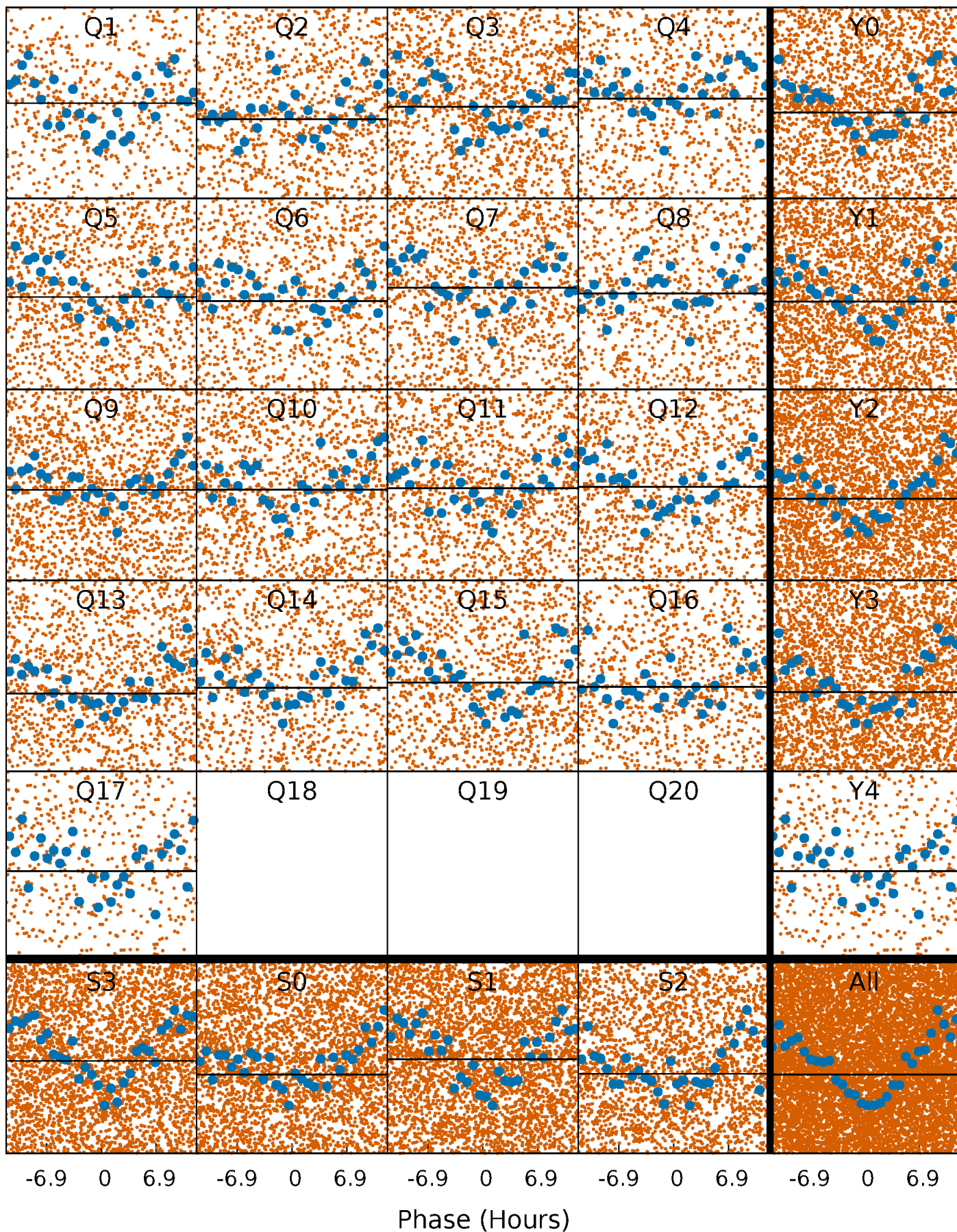
PDC Quarter-Phased Transit Curves

TCE 011920526-01 P= 1.668210 Days $T_0=133.168987$ (BKJD)



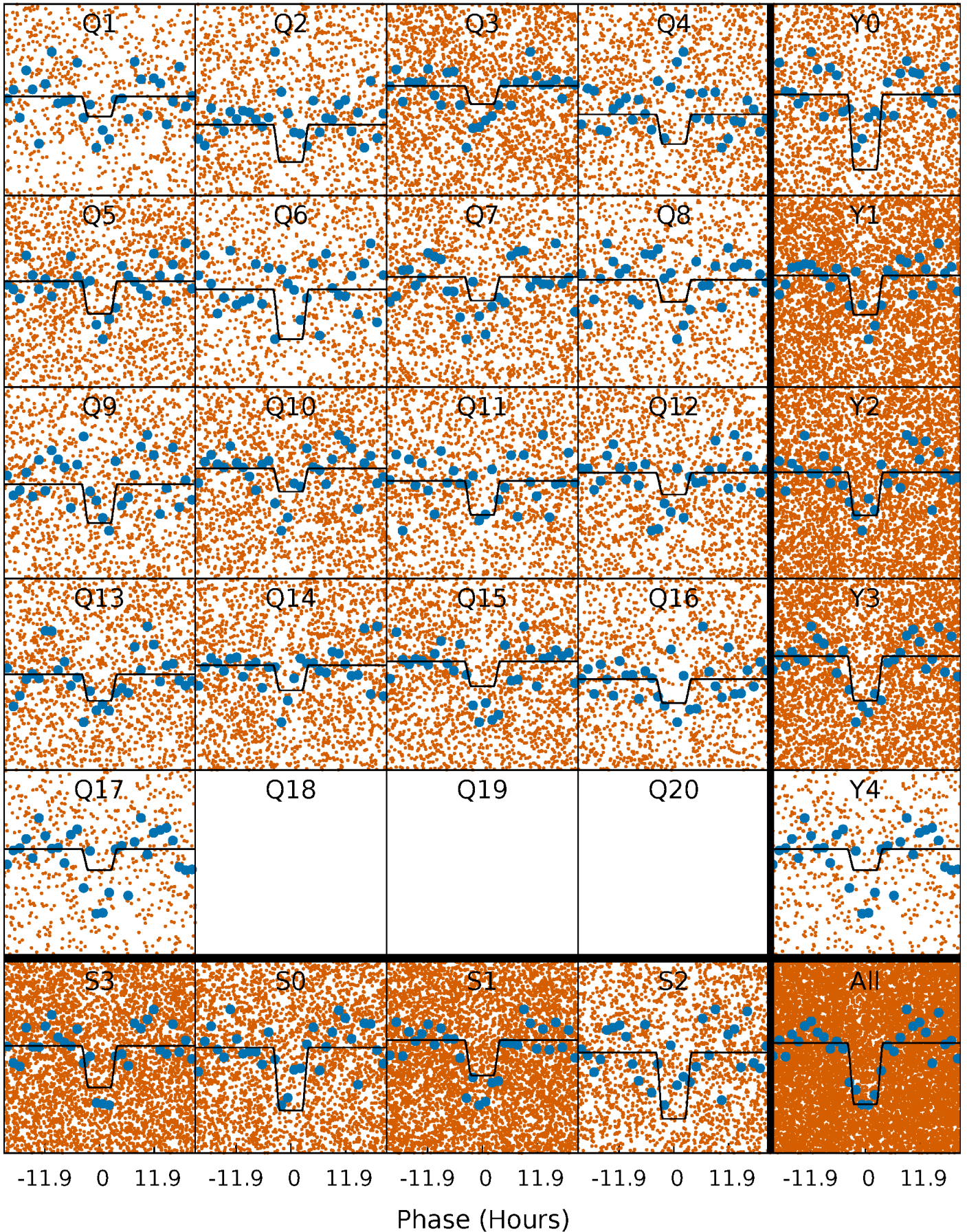
DV Quarter-Phased Transit Curves

TCE 011920526-01 P= 1.668210 Days $T_0=133.168987$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

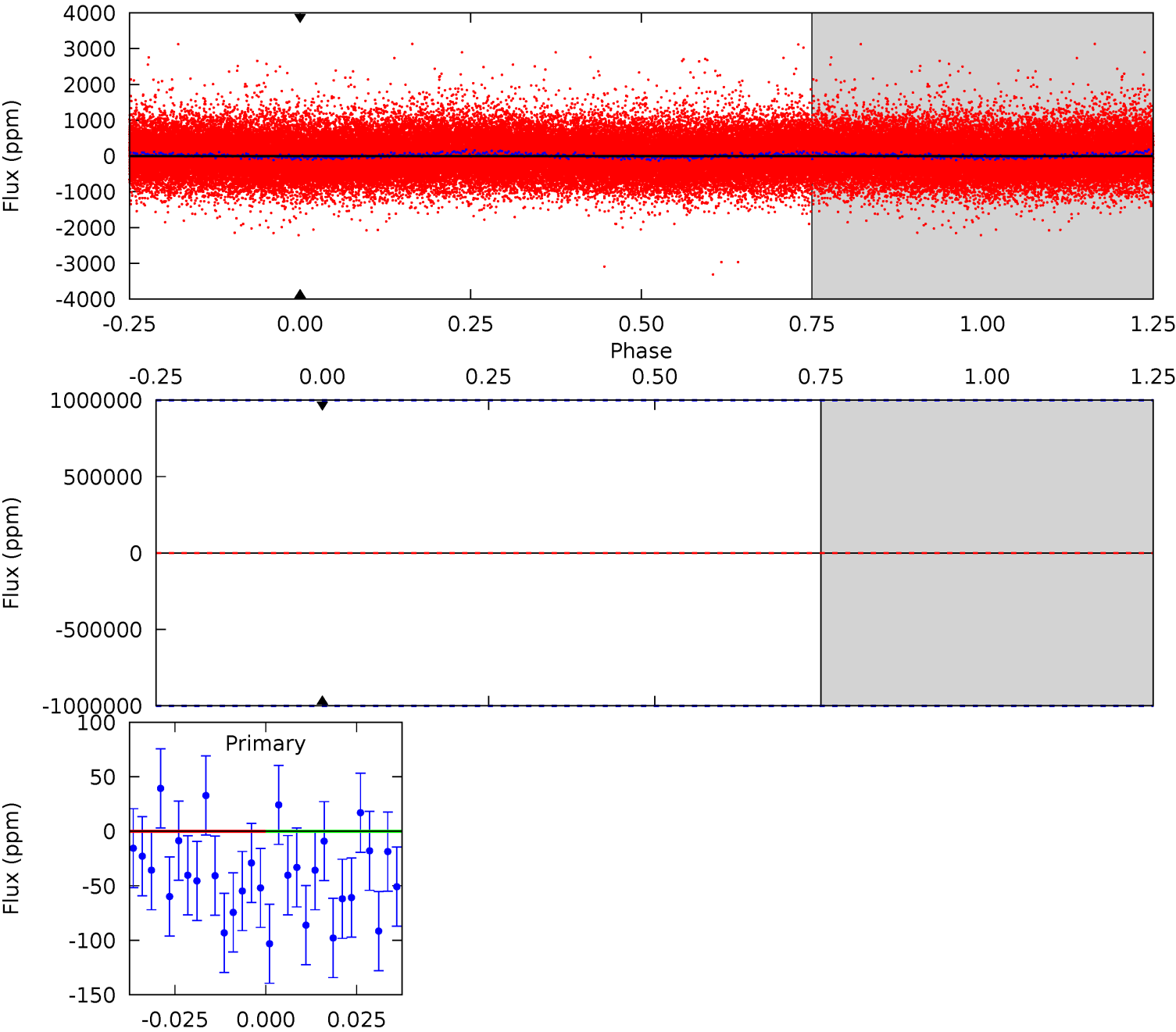
TCE 011920526-01 P= 1.668210 Days $T_0=131.528607$ (BKJD)



DV Model-Shift Uniqueness Test

011920526-01, P = 1.668210 Days, E = 131.500777 Days

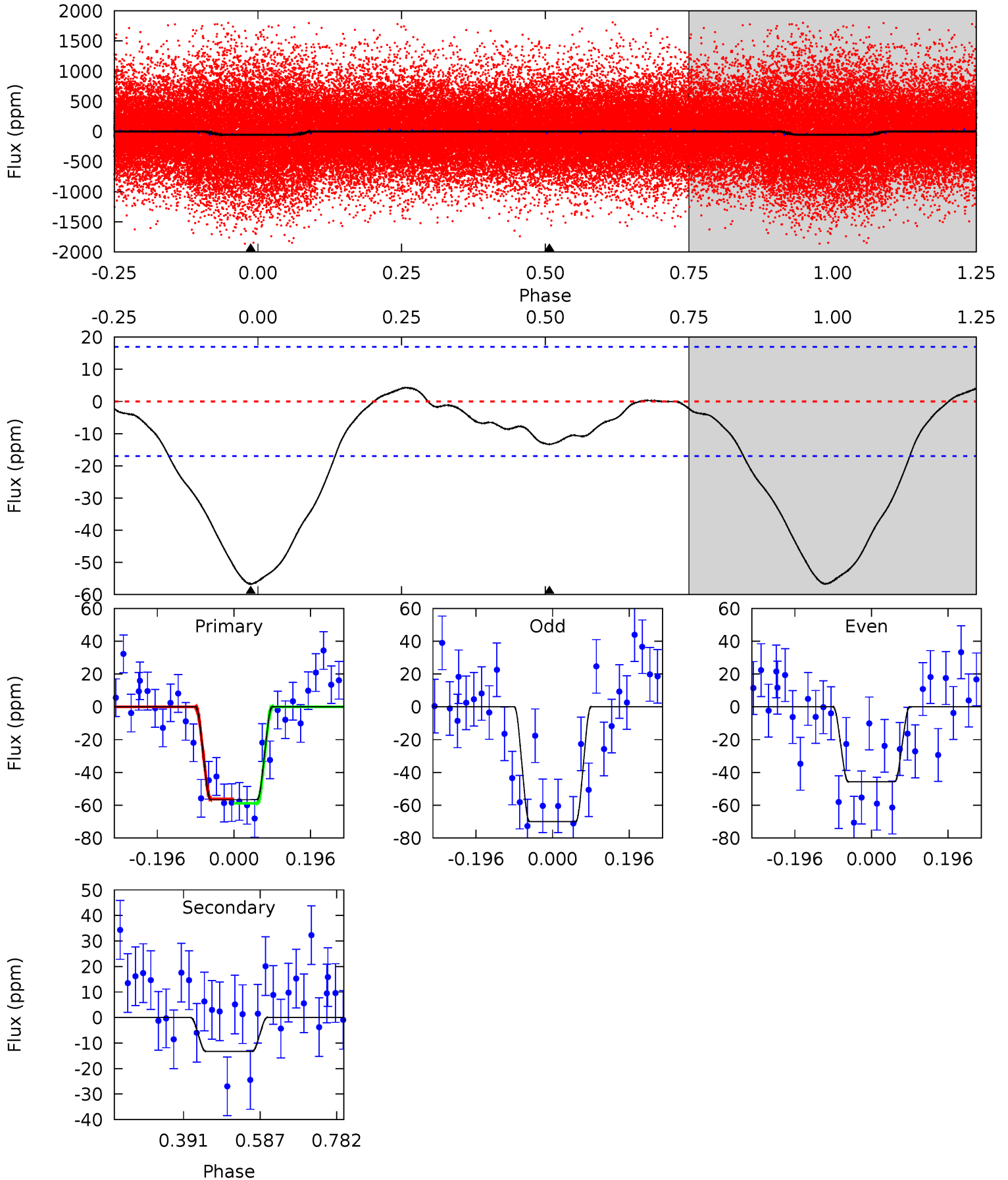
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011920526-01, P = 1.668210 Days, E = 129.860397 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.8	3.45	0	0	4.42	1.29	0.69	14.8	14.8	3.45	3.45	3.19	0.92	0.07	0.35



Stellar Parameters For KIC 011920526

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4816^{+157}_{-143}	$4.495^{+0.090}_{-0.110}$	$0.460^{+0.050}_{-0.300}$	$0.839^{+0.076}_{-0.093}$	$0.802^{+0.051}_{-0.046}$	$1.911^{+0.729}_{-0.529}$
	+3%/-3%	+2%/-2%	+11%/-65%	+9%/-11%	+6%/-6%	+38%/-28%
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 011920526-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$7.15^{+6.87}_{-4.85}$	1708^{+74}_{-73}	3767^{+9024}_{-16184}	12^{+1143}_{-1156}
Alt.	-13 ± 4	$6.37^{+7.83}_{-4.44}$	1711^{+72}_{-78}	-2151^{+4795}_{-134}	$0.114^{+1.169}_{-0.092}$

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

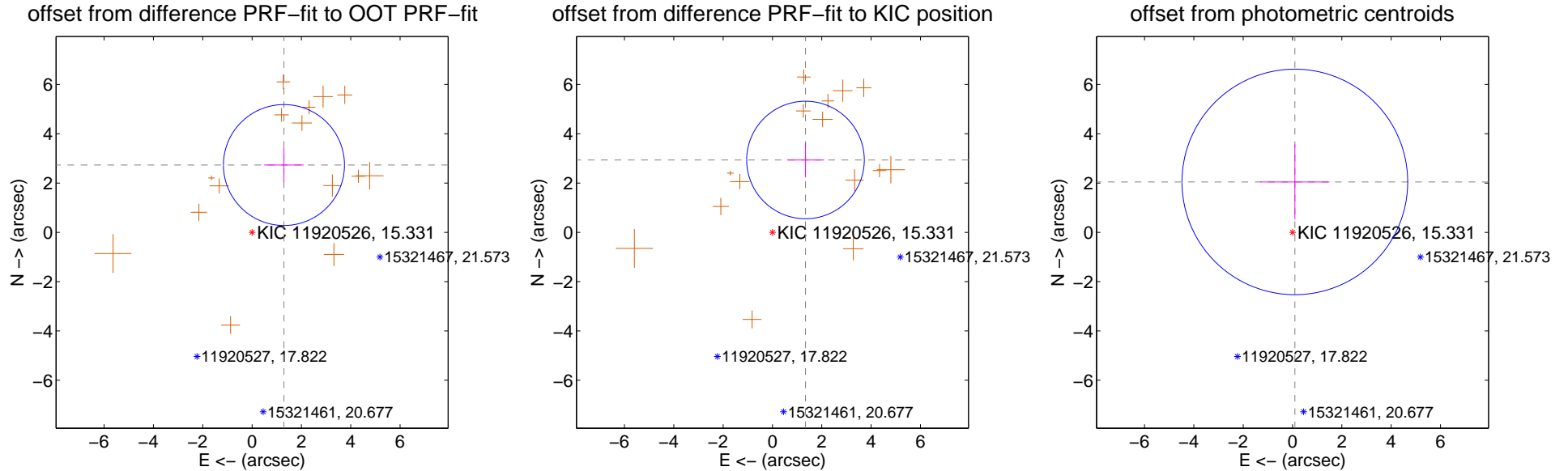
DV Centroid Data

Supplemental centroid analysis for 011920526-01. Kepler magnitude: 15.33. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

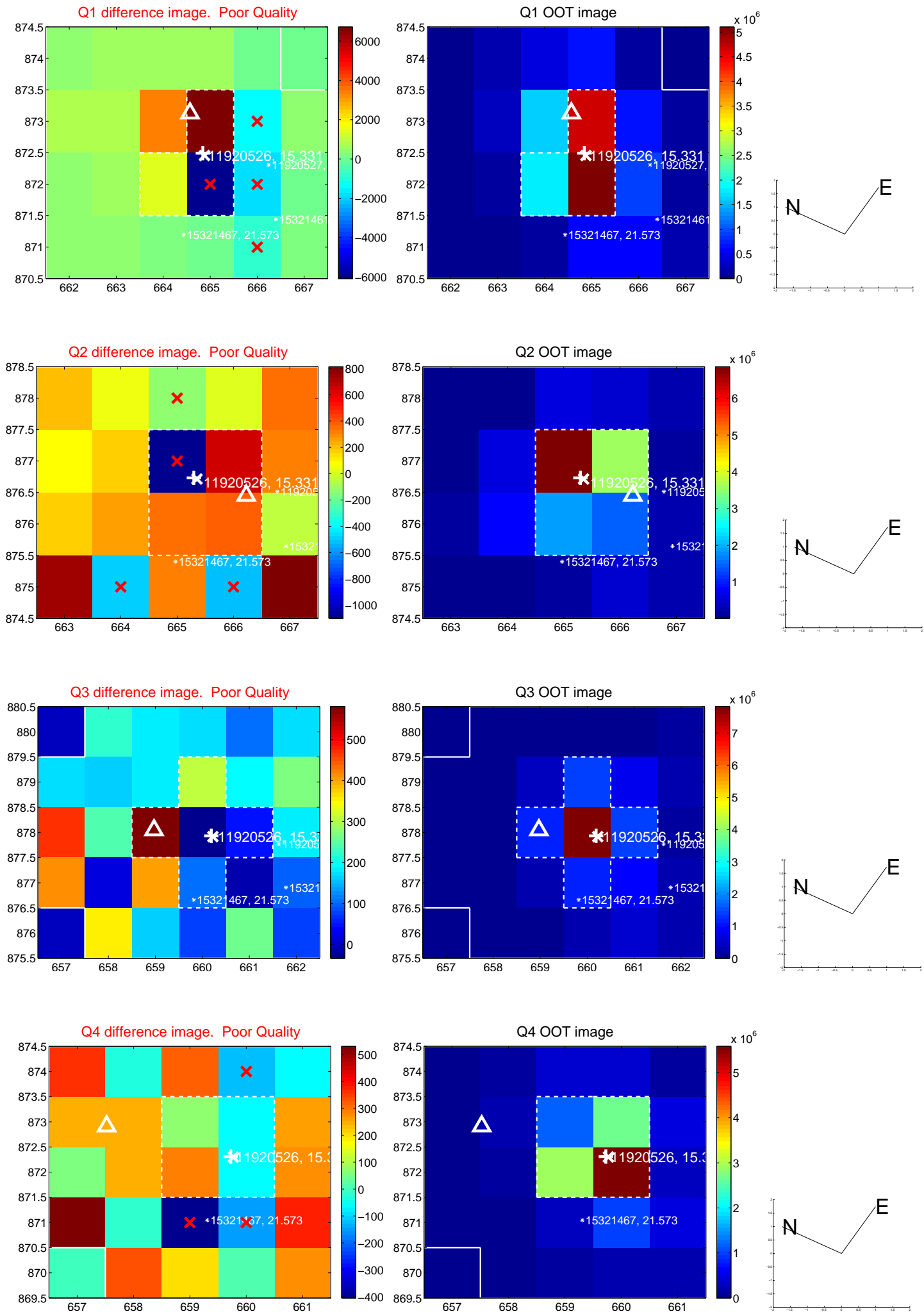
The direct PRF centroid is offset from the target star catalog position by about 0.29 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.020 ± 0.818	3.69	-1.292 ± 0.802	2.730 ± 0.694
PRF-fit source offset from KIC position	3.226 ± 0.794	4.06	-1.339 ± 0.752	2.935 ± 0.708
photometric centroid source offset	2.05 ± 1.52	1.34	-0.09 ± 1.41	2.04 ± 1.52

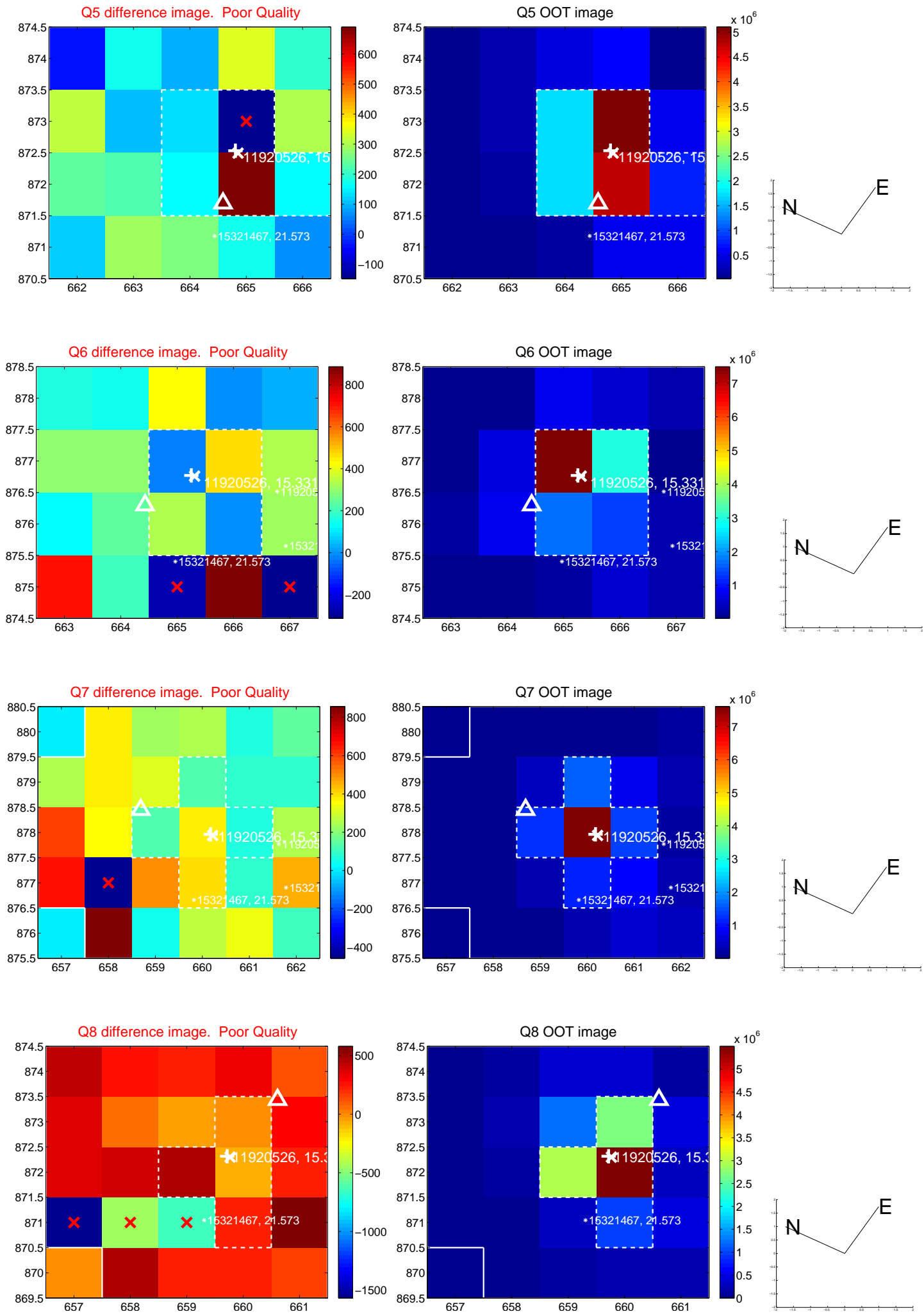


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

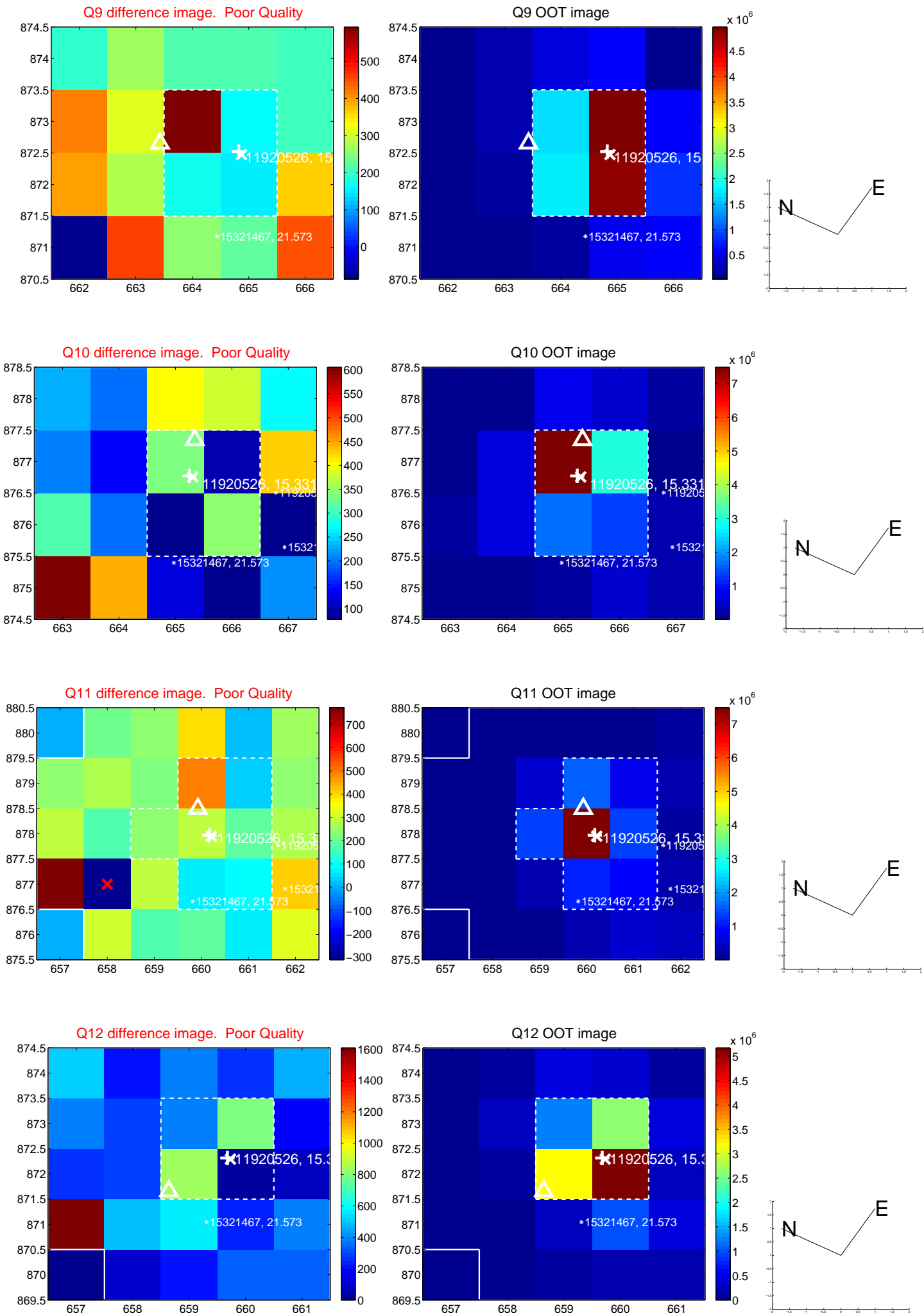
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



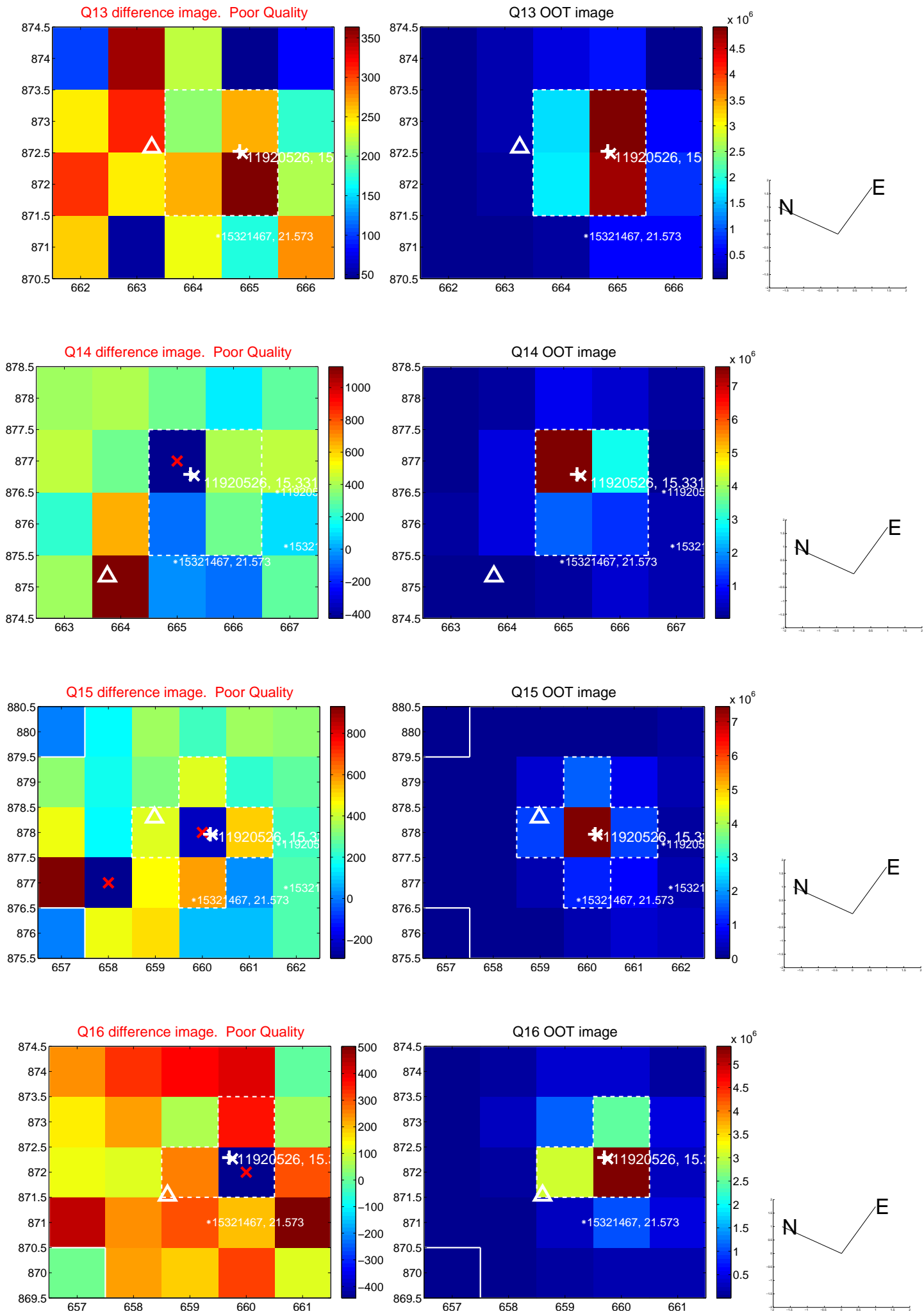
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



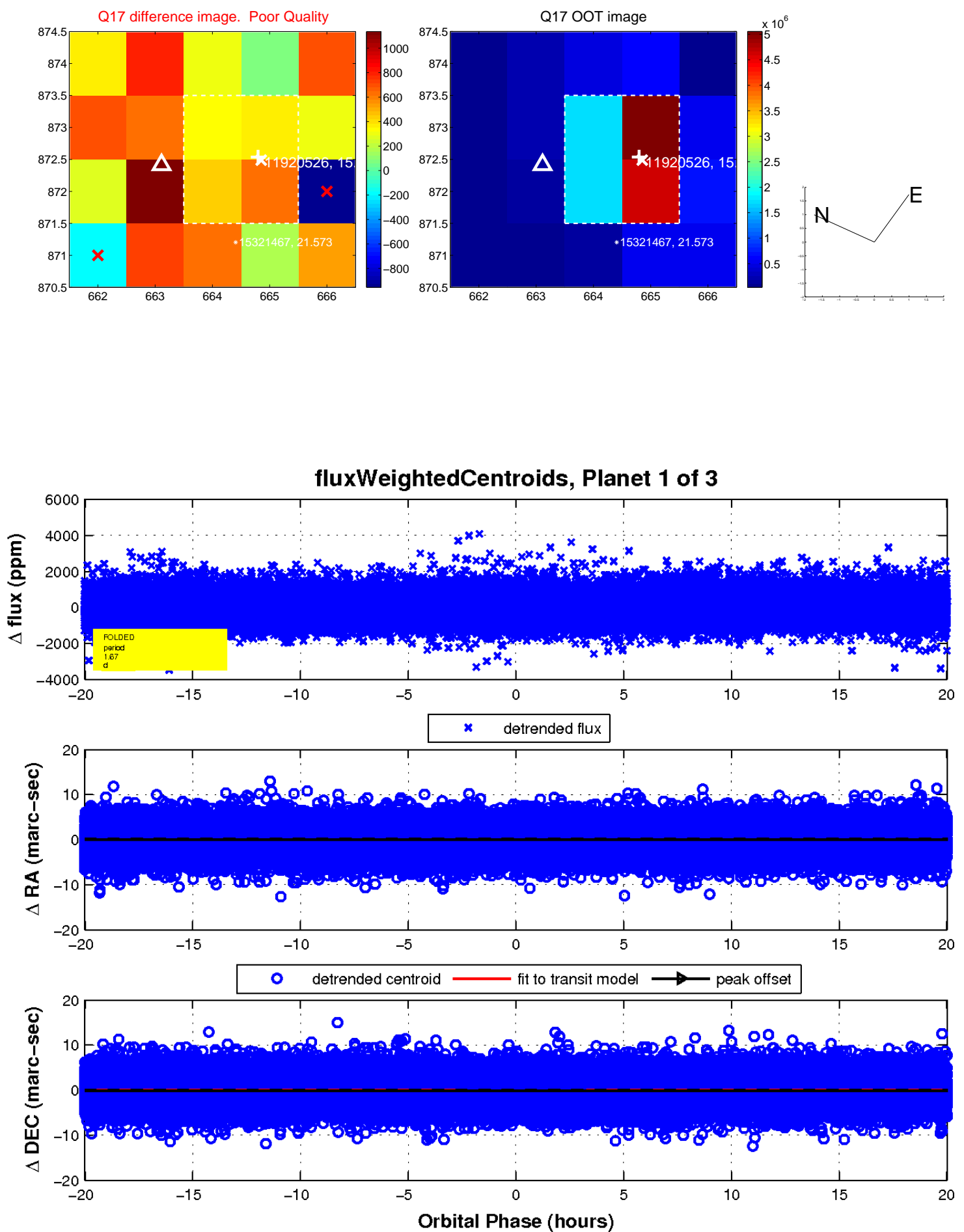
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



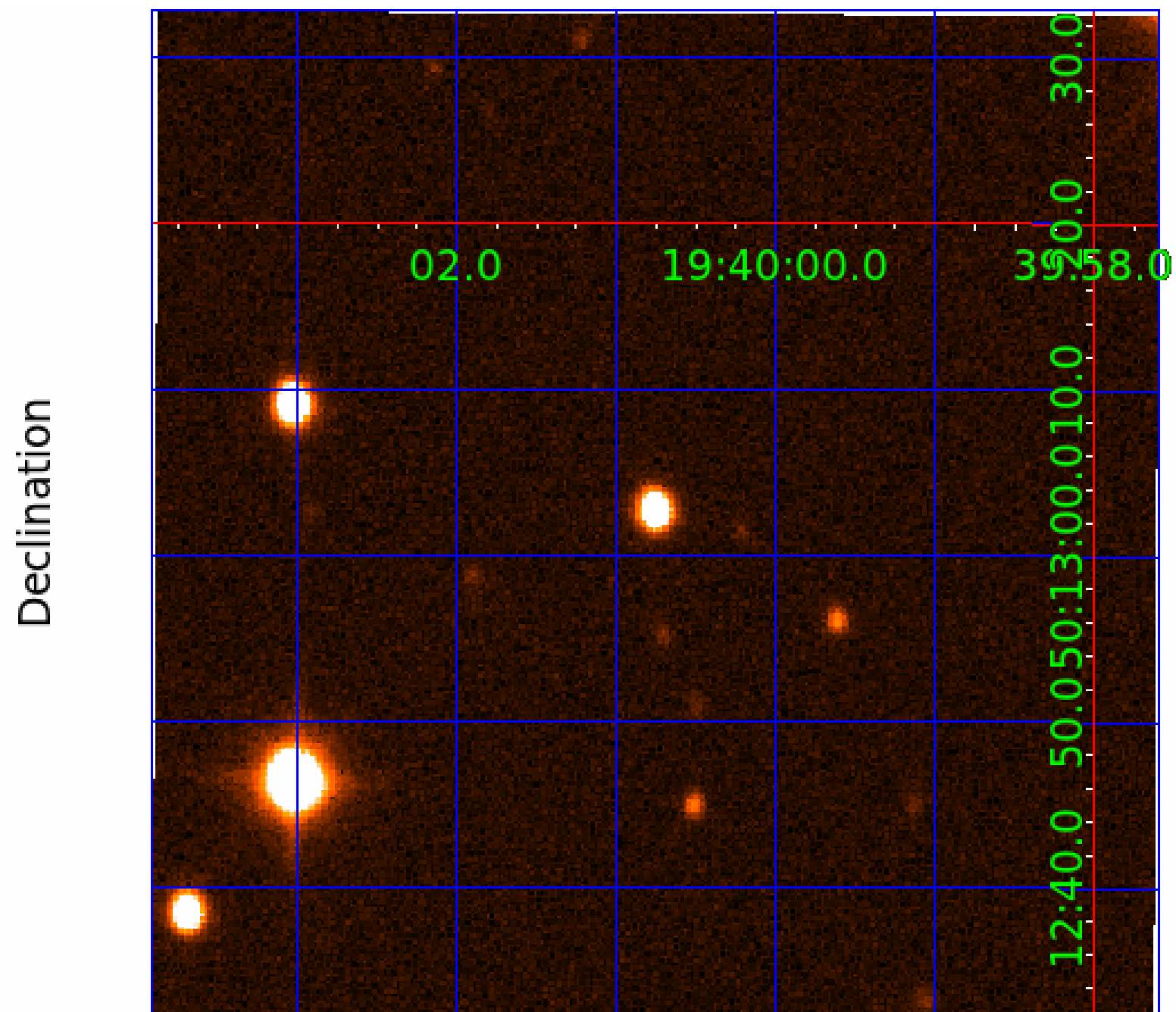
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 011920526

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})
011920526-01	OBS	No	1.668210	133.168987	641.2	6.000	8.0	-1.0	0.84	4816	2.04	518.18
011920526-02	OBS	No	194.500328	193.512161	691.0	18.471	12.3	6.3	0.84	4816	3.31	0.91
011920526-03	OBS	No	1.668191	132.366868	69.6	12.315	8.1	11.3	0.84	4816	0.67	518.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011920526-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_NOFITS—HALO_GHOST
011920526-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
011920526-03	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_RESOLVED_OFFSET—HALO_GHOST

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

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

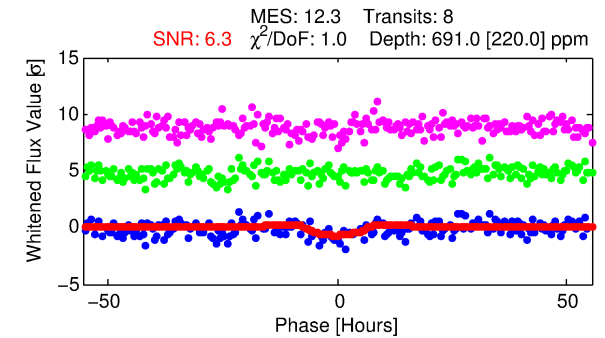
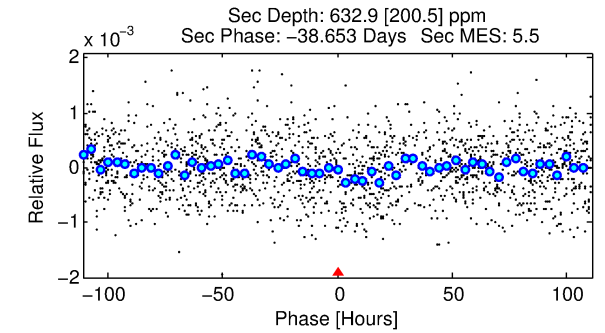
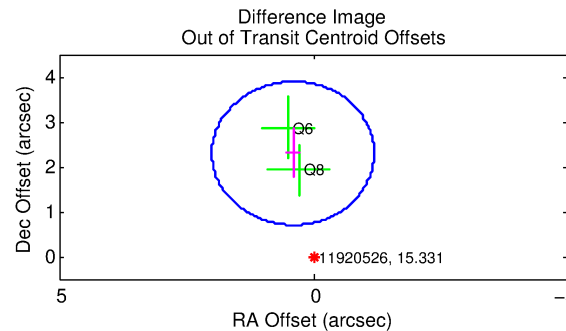
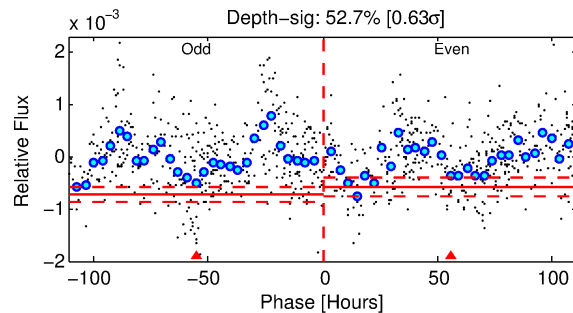
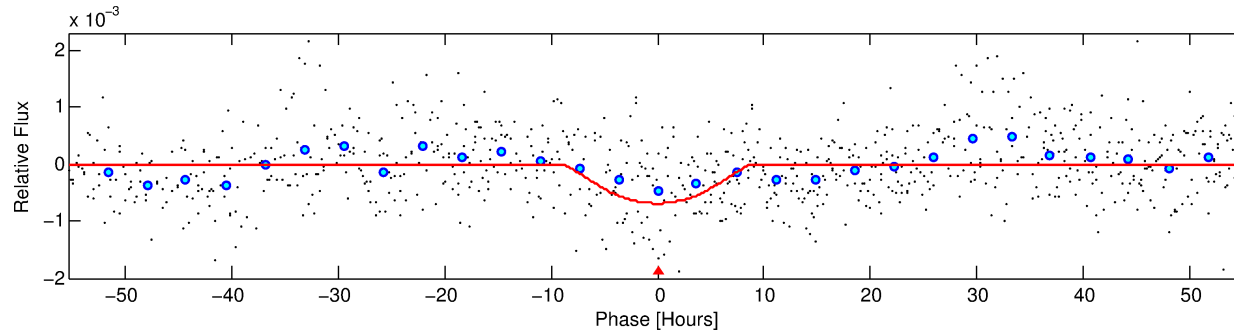
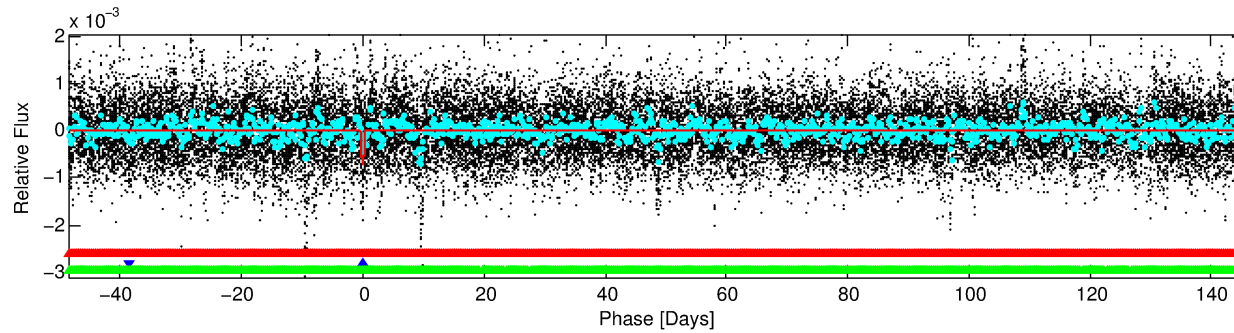
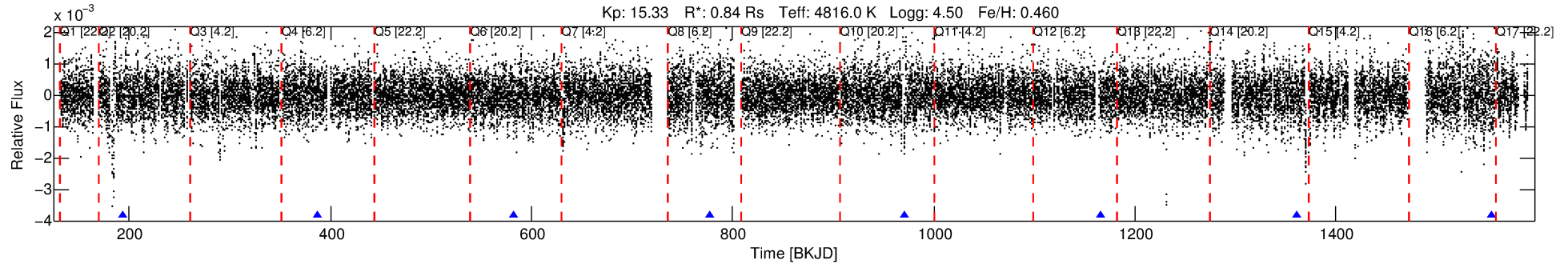
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011920526-02

No Significant Match Found

DV One-Page Summary

KIC: 11920526 Candidate: 2 of 3 Period: 194.500 d



DV Fit Results:

Period = 194.50033 [0.01399] d
Epoch = 193.5122 [0.0529] BKJD
Rp/R* = 0.0361 [0.0263]
a/R* = 28.40 [11.51]
b = 0.97 [0.06]
Seff = 0.91 [0.21]
Teq = 249 [14] K
Rp = 3.31 [2.43] Re
a = 0.6107 [0.0685] AU
Ag = 11881.83 [17818.29] [0.67 σ]
Teffp = 4020 [1501] K [2.51 σ]

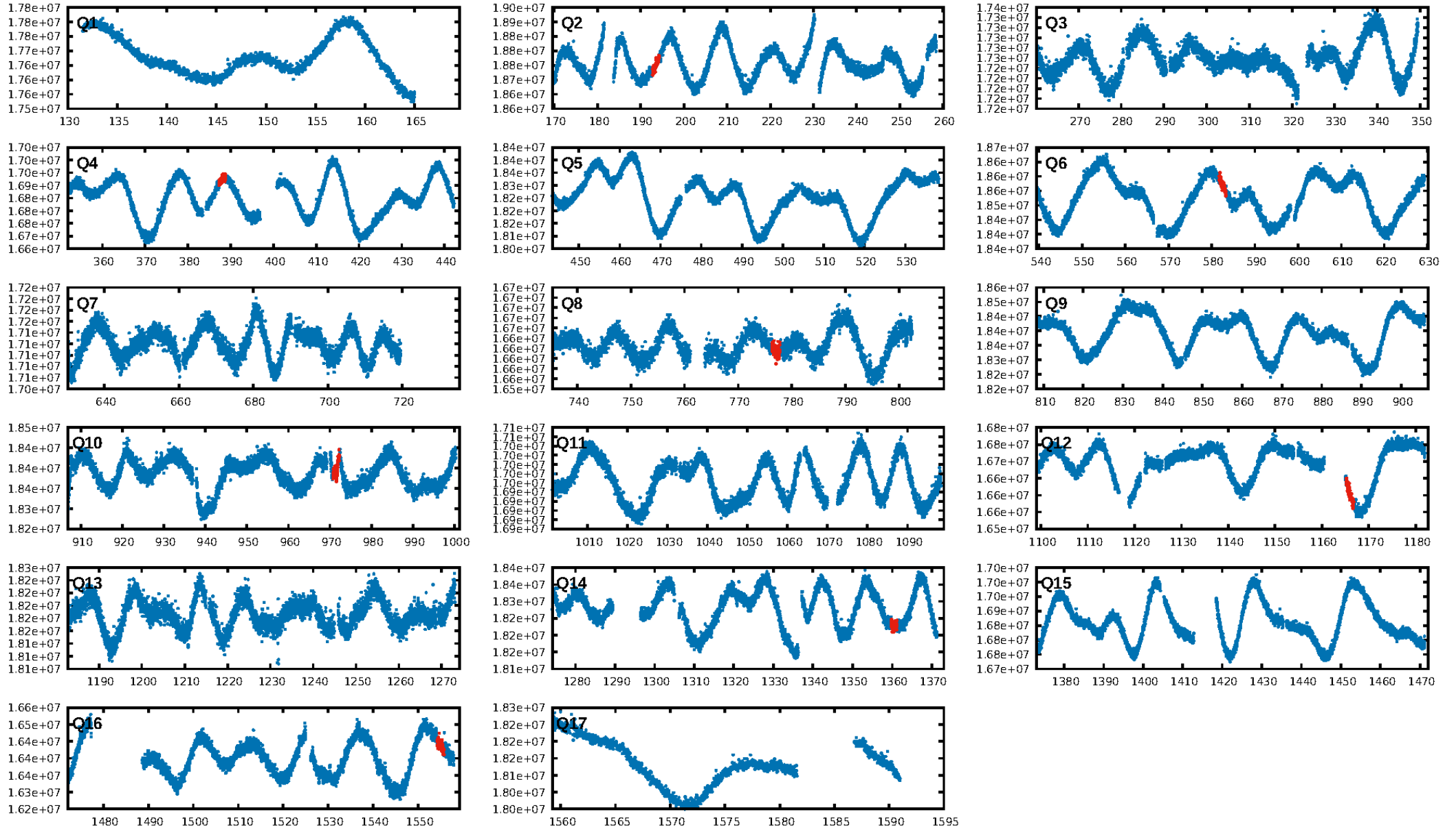
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [238.30 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [8/8]
GhostDiagnostic-chr: -1.602
Centroid-sig: 0.0%
Centroid-so: 3.039 arcsec [2.70 σ]
OotOffset-rm: 2.332 arcsec [4.39 σ]
KicOffset-rm: 2.532 arcsec [4.53 σ]
OotOffset-st: 1/0/1/0 [2]
KicOffset-st: 1/0/1/0 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 0.00 [0/6]

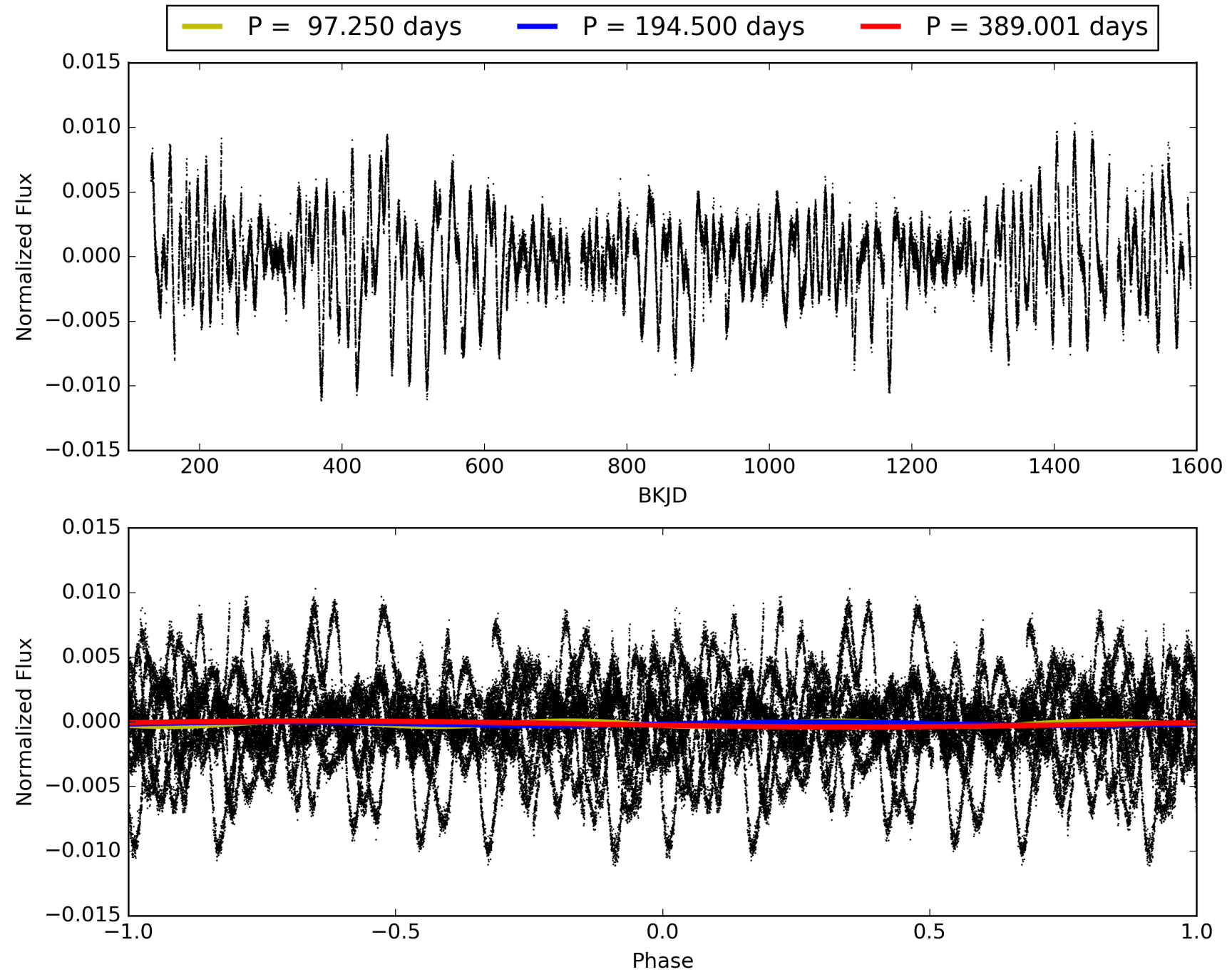
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 03:03:00 Z

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

TCE 011920526-02, PDC Light Curves

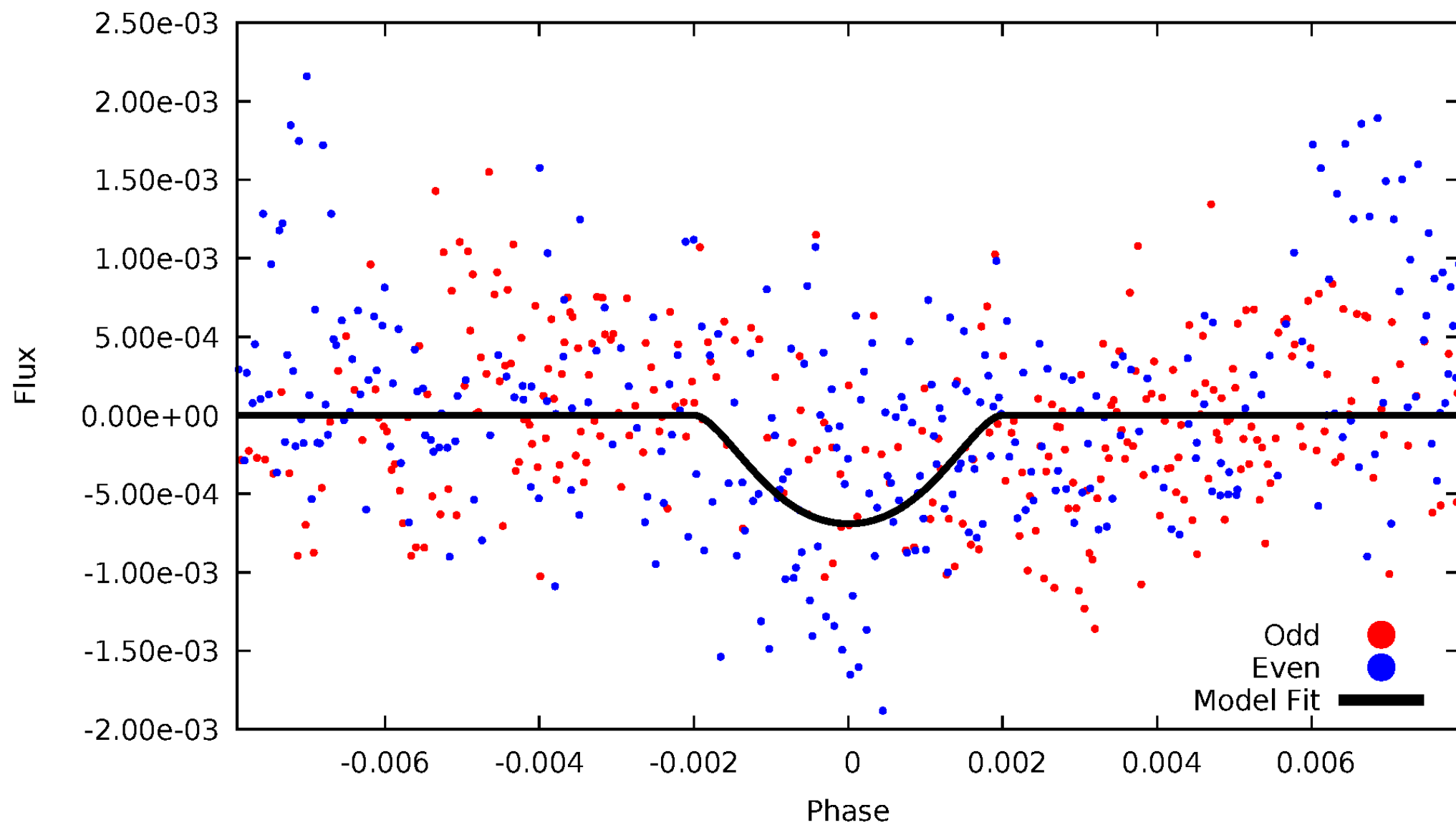


TCE 011920526-02



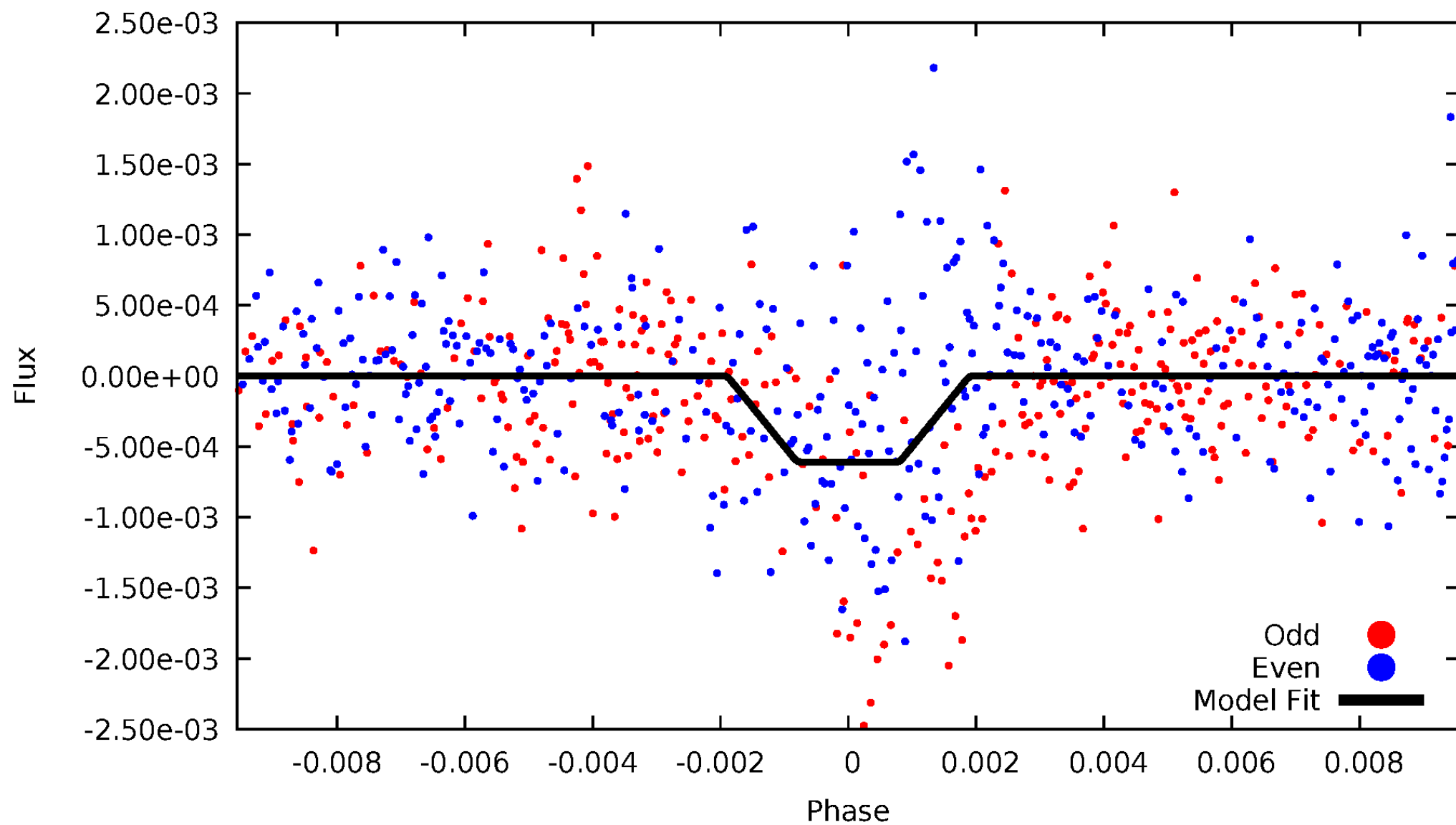
DV Odd/Even

TCE 011920526-02



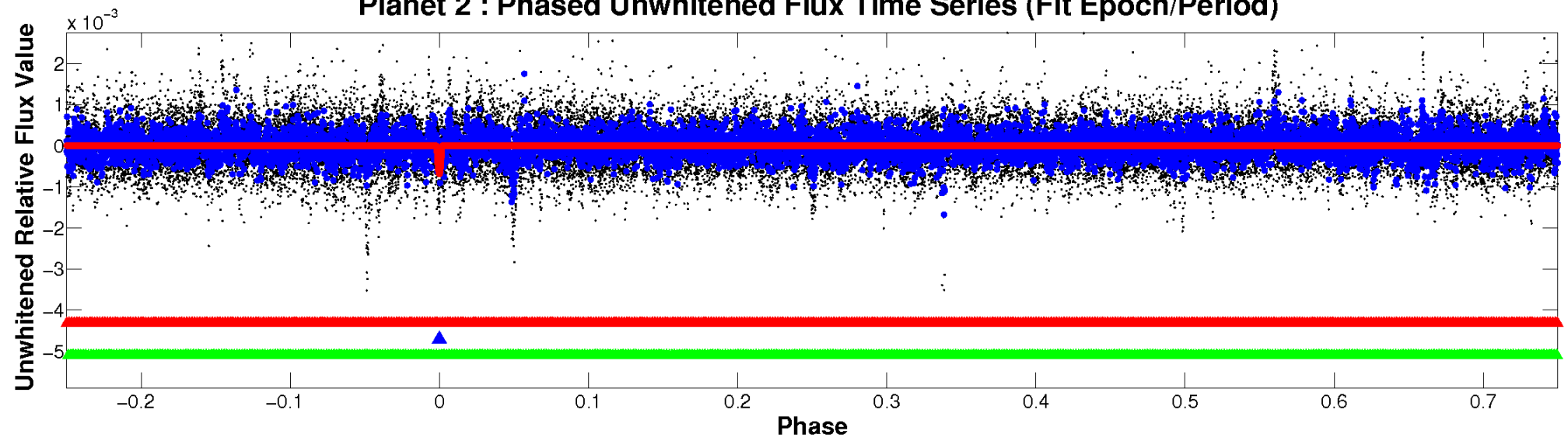
ALT Odd/Even

TCE 011920526-02

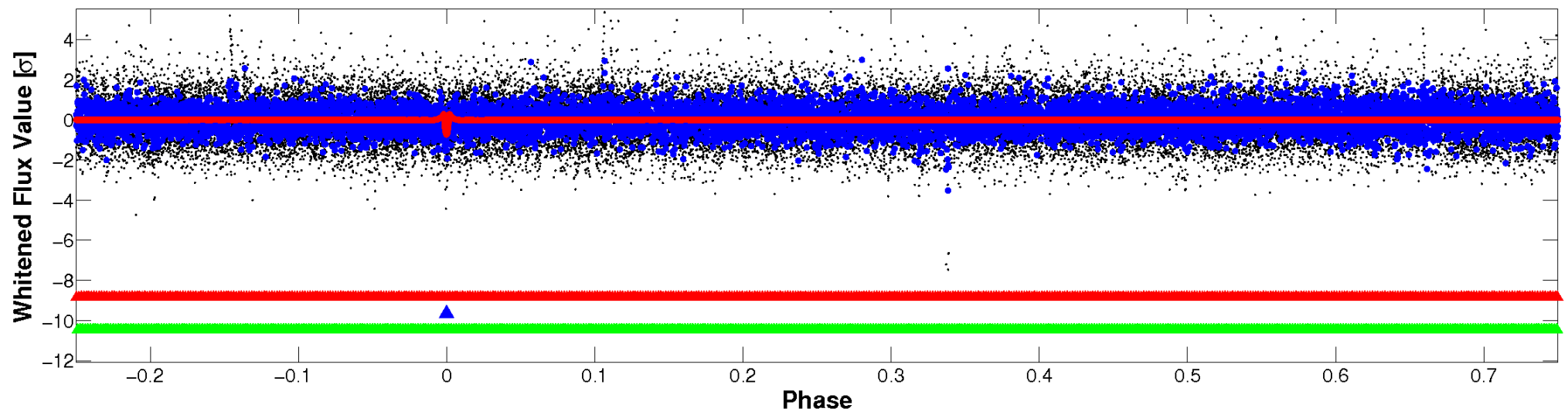


Non-Whitened Vs. Whitened Light Curve

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

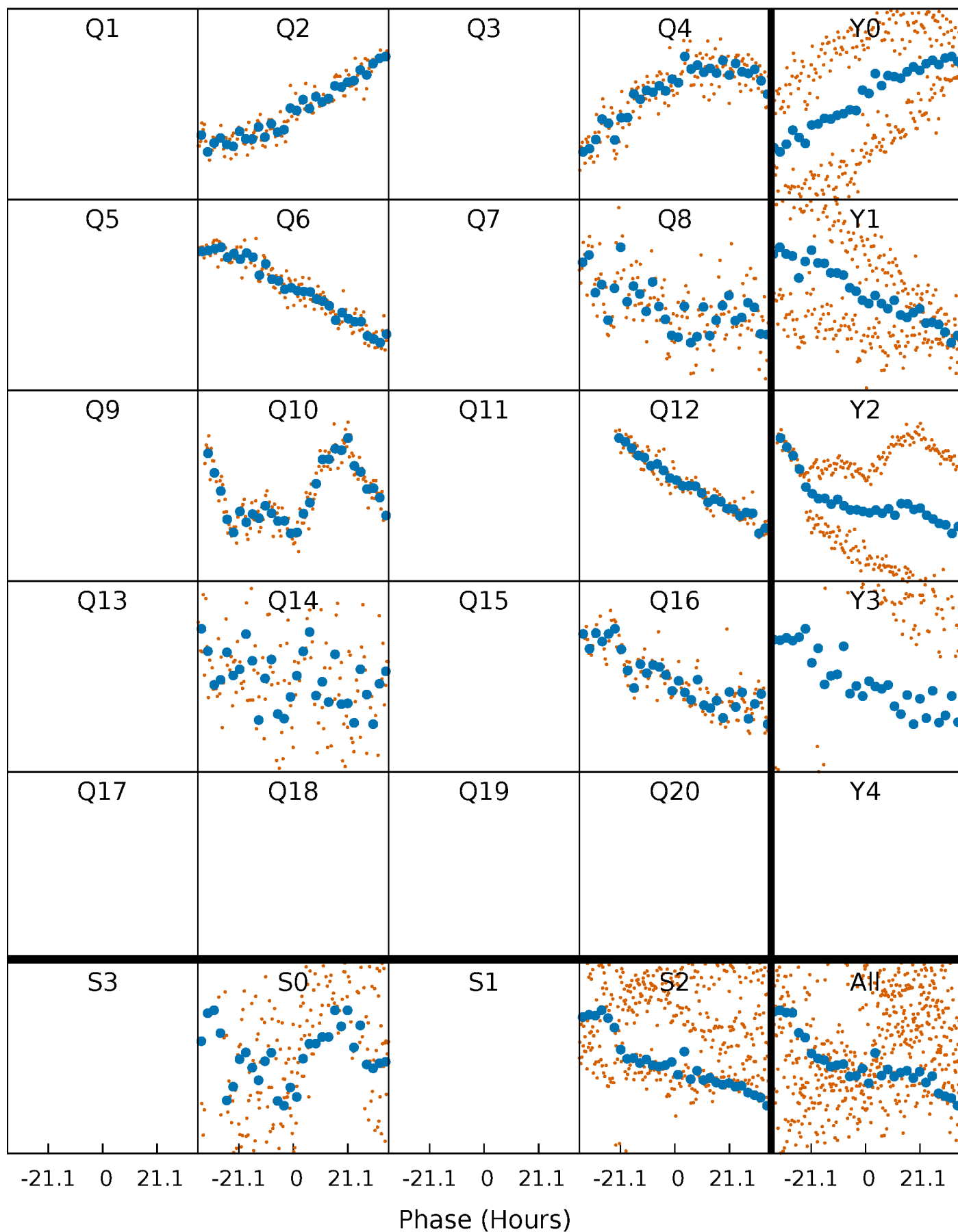


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 011920526-02 P=194.500328 Days $T_0=193.512161$ (BKJD)



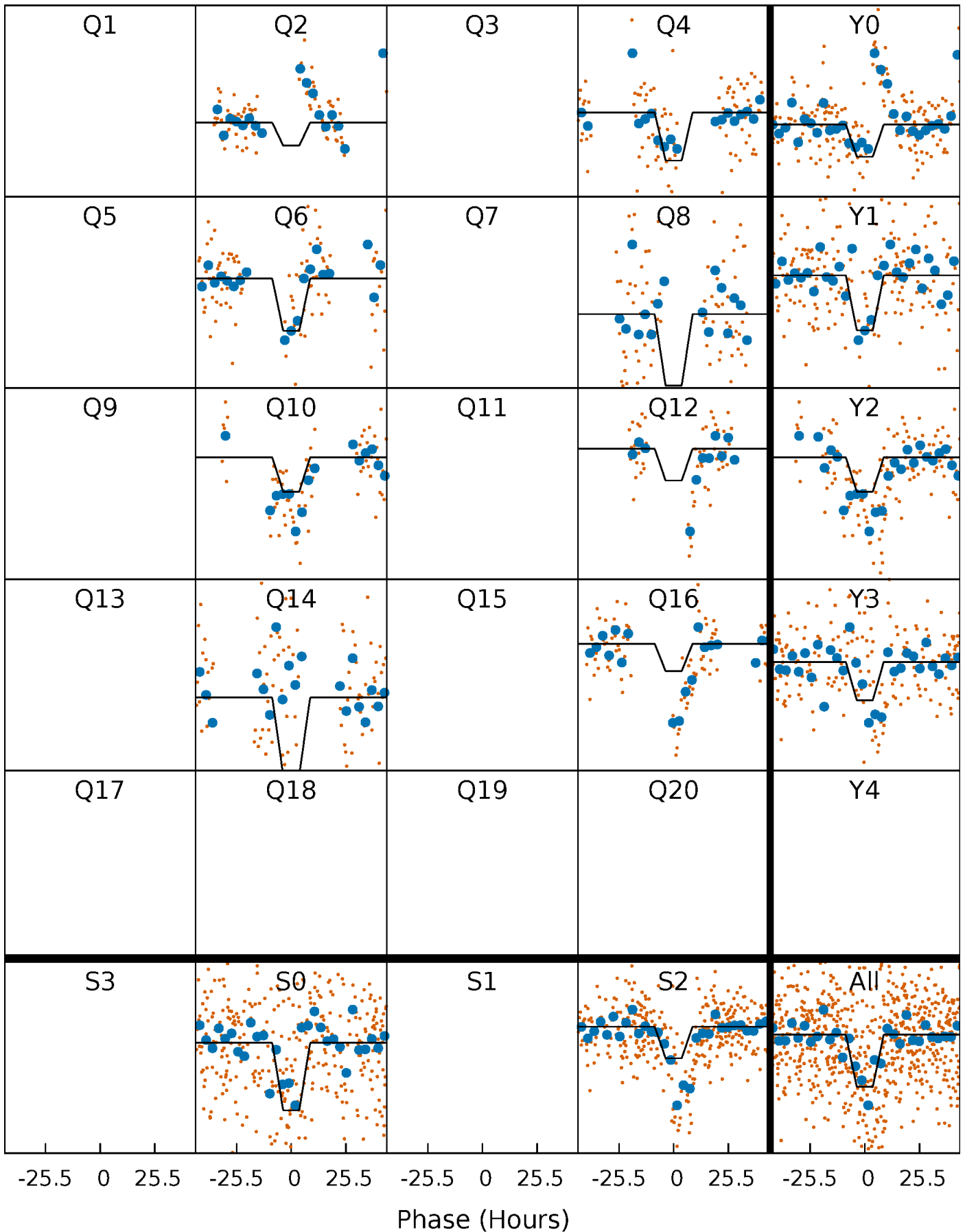
DV Quarter-Phased Transit Curves

TCE 011920526-02 P=194.500328 Days $T_0=193.512161$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

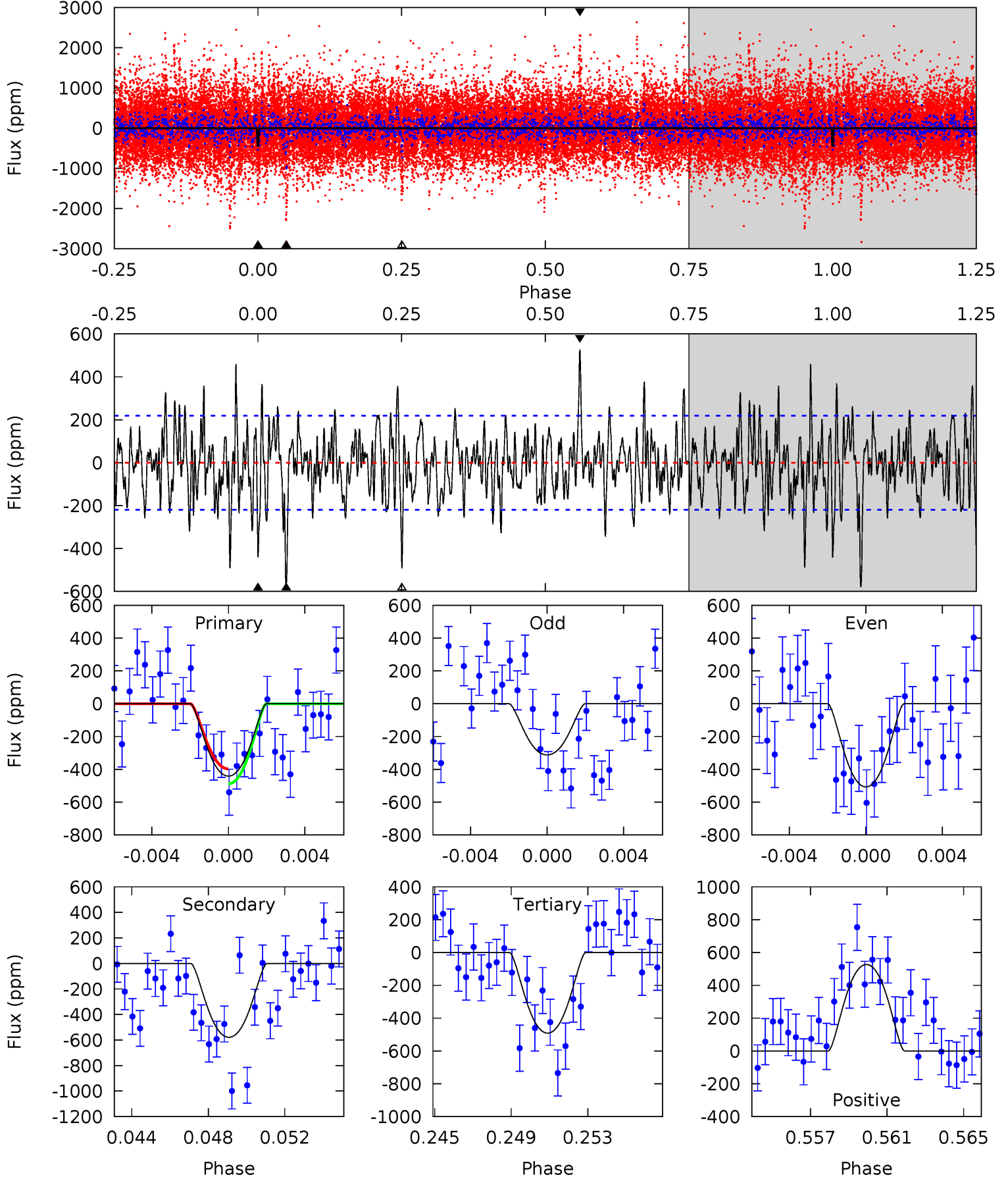
TCE 011920526-02 P=194.493435 Days $T_0=193.453878$ (BKJD)



DV Model-Shift Uniqueness Test

011920526-02, P = 194.500328 Days, E = 193.512161 Days

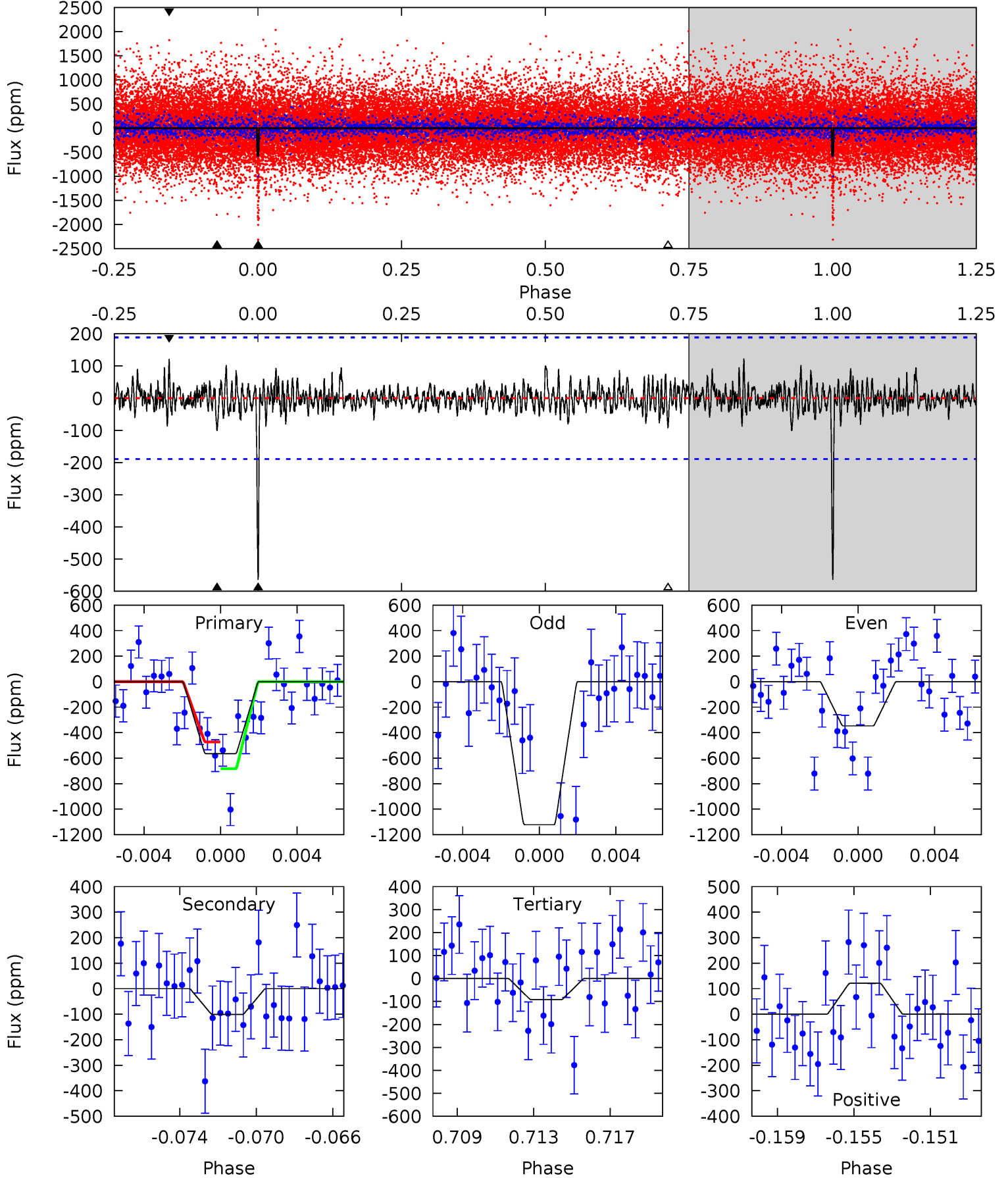
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.5	13.7	11.7	12.5	5.20	2.88	3.06	-1.19	-2.03	2.07	1.23	2.23	-0.24	0.48	1.08



Alt Model-Shift Uniqueness Test

011920526-02, P = 194.493435 Days, E = 193.453878 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.5	2.79	2.54	3.34	5.21	2.89	0.82	13.0	12.2	0.25	-0.55	10.3	1.86	0.18	2.87



Stellar Parameters For KIC 011920526

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4816^{+157}_{-143}	$4.495^{+0.090}_{-0.110}$	$0.460^{+0.050}_{-0.300}$	$0.839^{+0.076}_{-0.093}$	$0.802^{+0.051}_{-0.046}$	$1.911^{+0.729}_{-0.529}$
	+3%/-3%	+2%/-2%	+11%/-65%	+9%/-11%	+6%/-6%	+38%/-28%
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 011920526-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-579 ± 42	$3.64^{+2.30}_{-2.10}$	349^{+15}_{-15}	3957^{+1776}_{-561}	8991^{+43592}_{-5690}
Alt.	-101 ± 36	$2.93^{+2.27}_{-1.87}$	350^{+15}_{-14}	3210^{+1308}_{-507}	2288^{+15406}_{-1613}

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

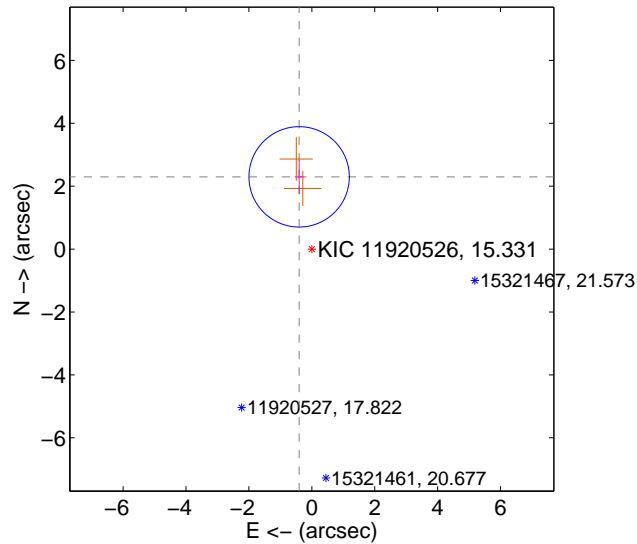
Supplemental centroid analysis for 011920526-02. Kepler magnitude: 15.33. Transit SNR 6.31

There are 0 quarters with good PRF difference image offsets

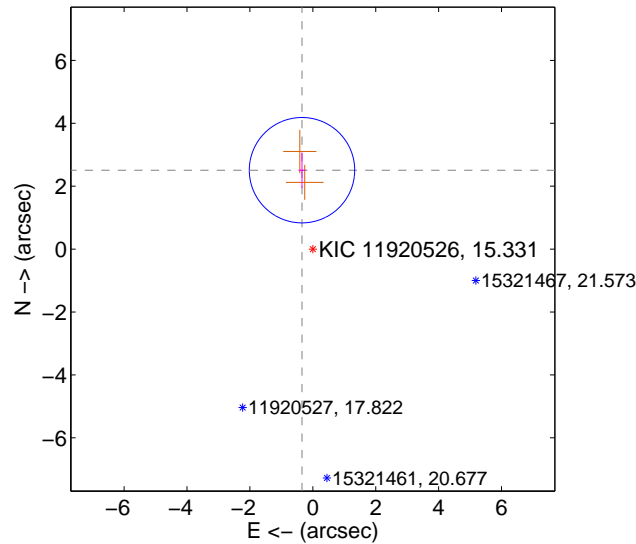
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.332 \pm 0.532	4.39	0.403 \pm 0.138	2.297 \pm 0.539
PRF-fit source offset from KIC position	2.532 \pm 0.558	4.53	0.344 \pm 0.114	2.509 \pm 0.563
photometric centroid source offset	3.04 \pm 1.12	2.70	1.69 \pm 1.05	2.53 \pm 1.16

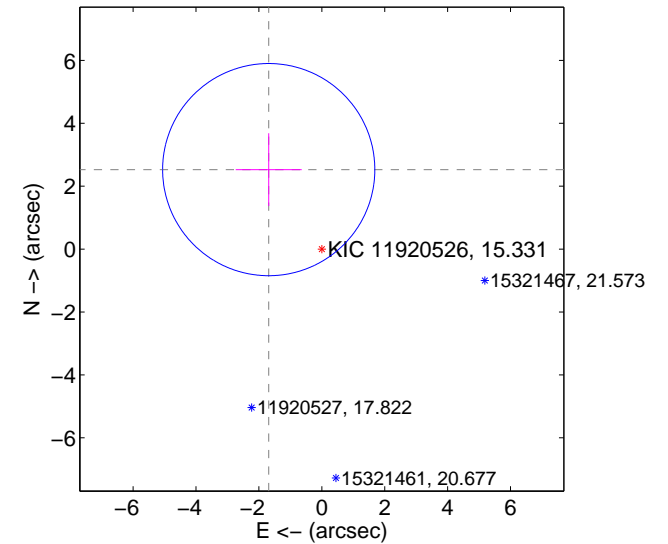
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids



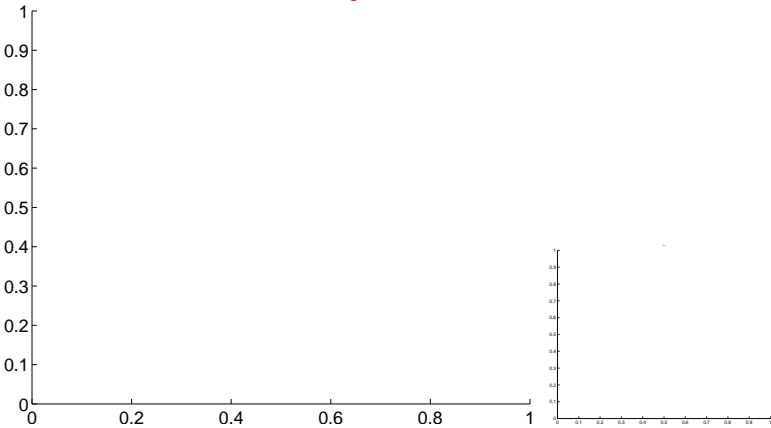
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

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

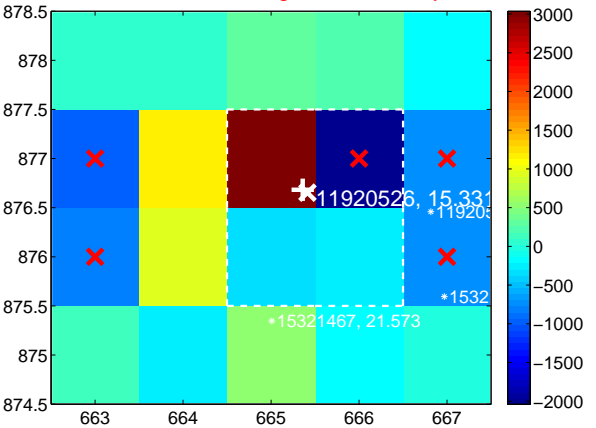
Q1 no difference image



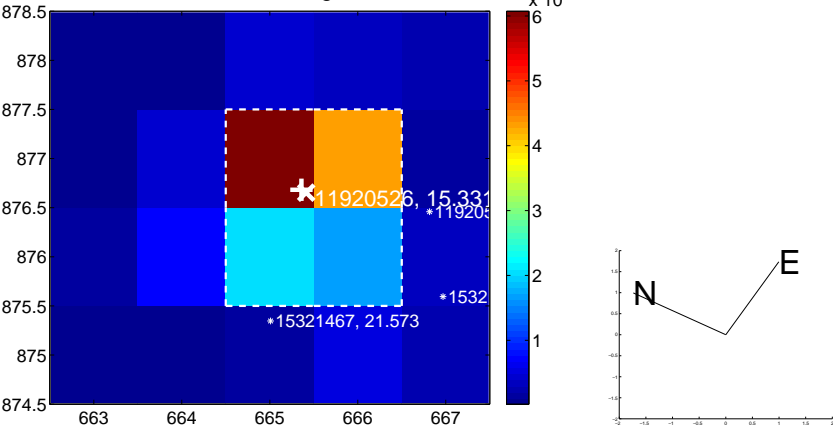
Q1 no OOT image



Q2 difference image. Poor Quality



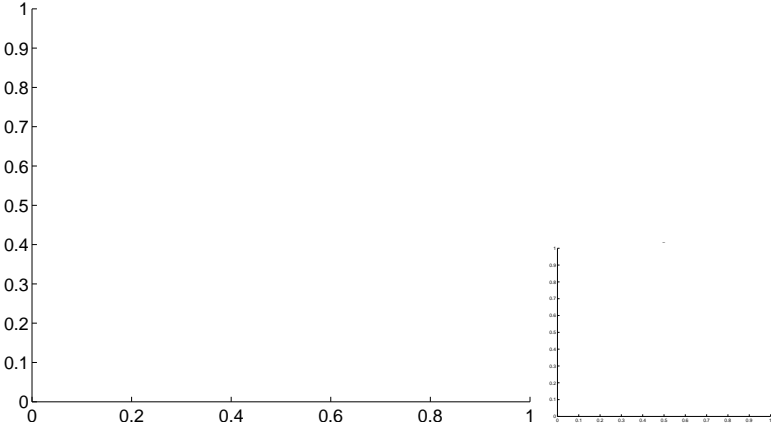
Q2 OOT image



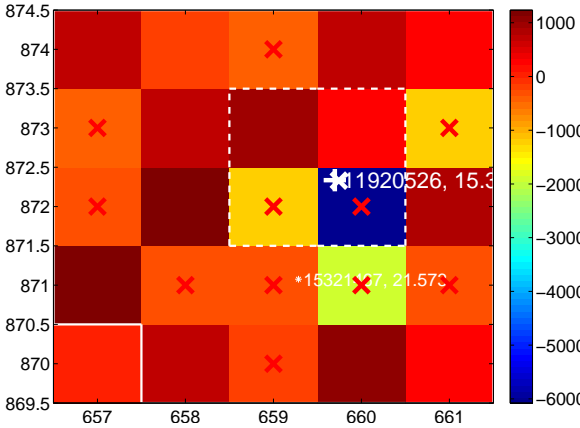
Q3 no difference image



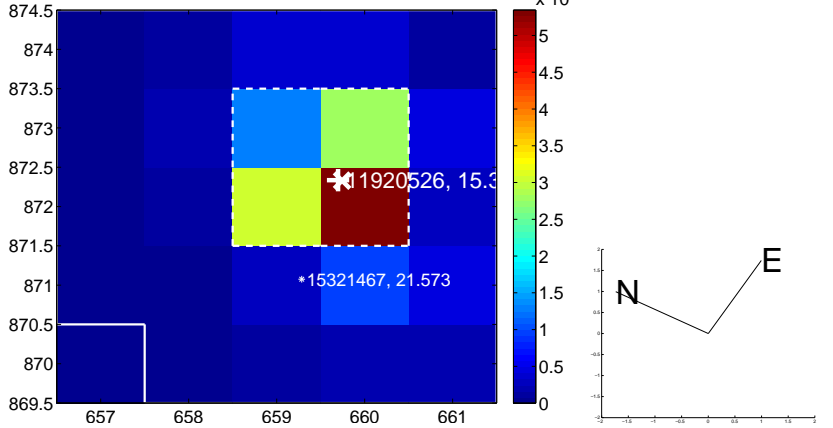
Q3 no OOT image



Q4 difference image. Poor Quality



Q4 OOT image



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

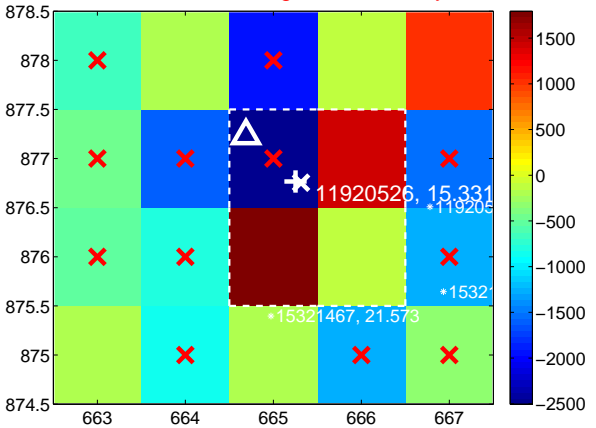
Q5 no difference image



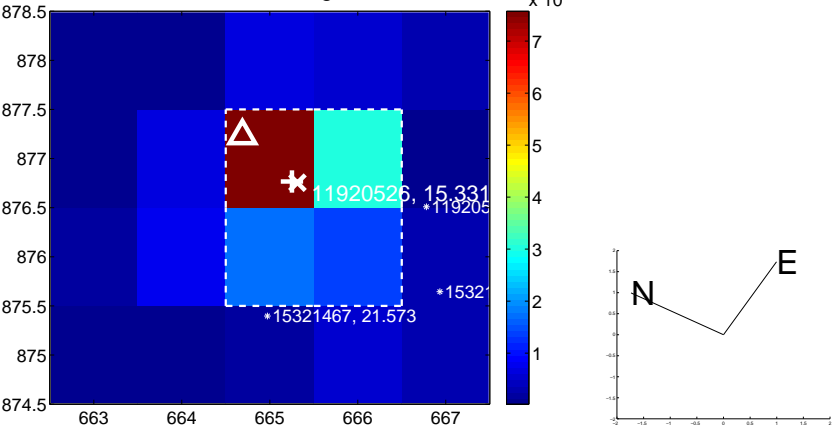
Q5 no OOT image



Q6 difference image. Poor Quality



Q6 OOT image



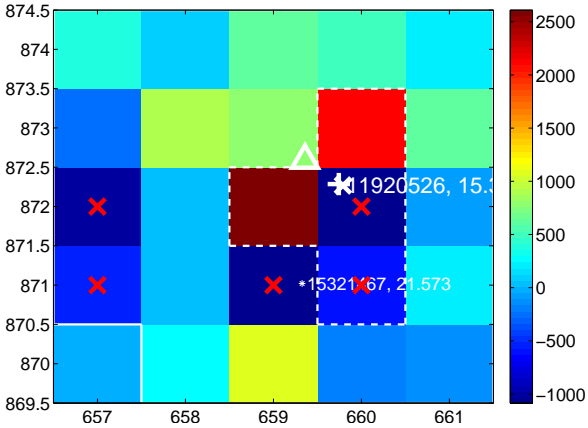
Q7 no difference image



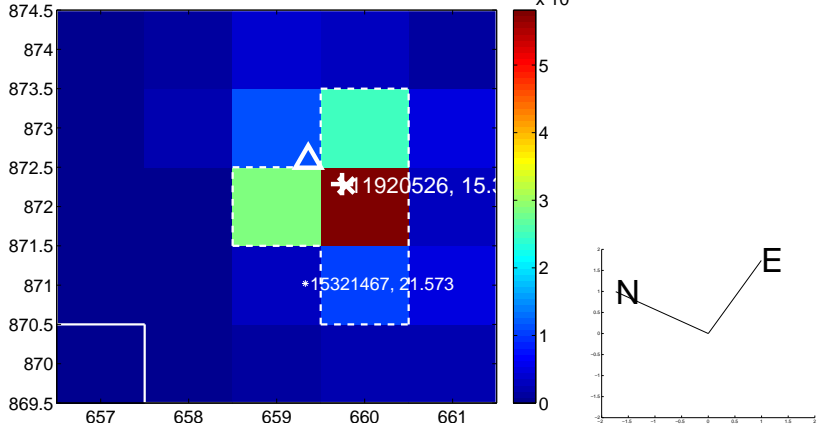
Q7 no OOT image



Q8 difference image. Poor Quality



Q8 OOT image



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.

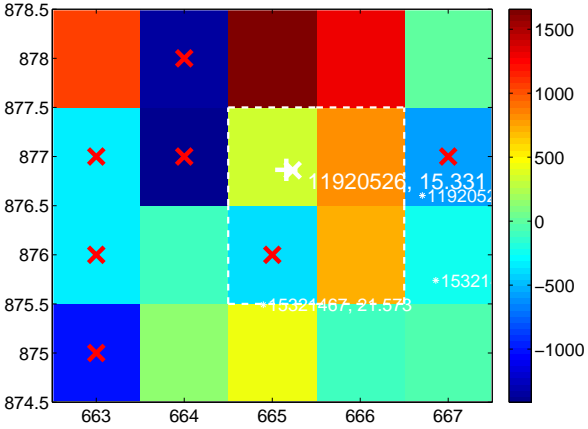
Q13 no difference image



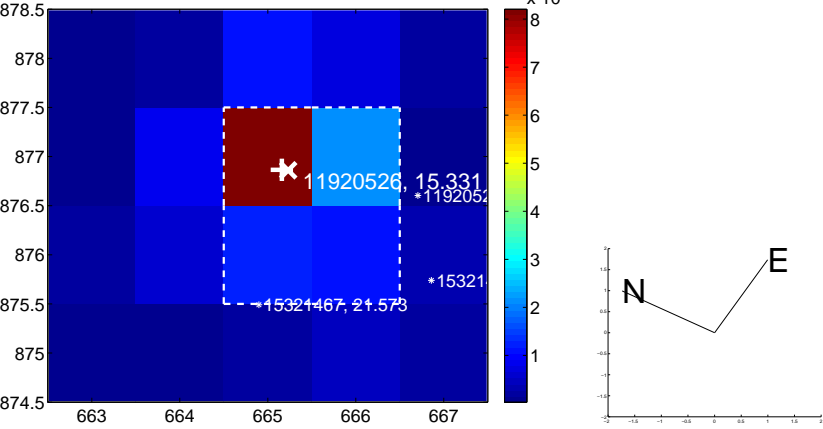
Q13 no OOT image



Q14 difference image. Poor Quality



Q14 OOT image



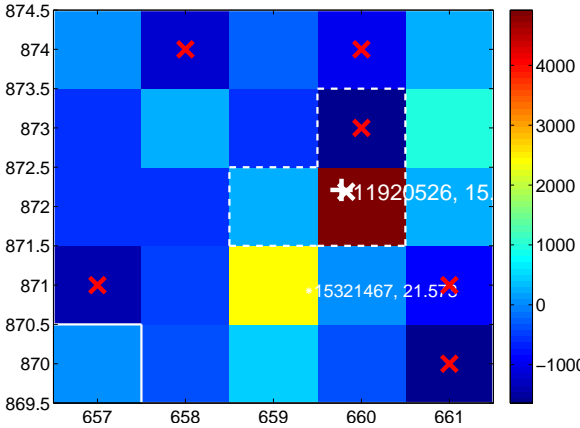
Q15 no difference image



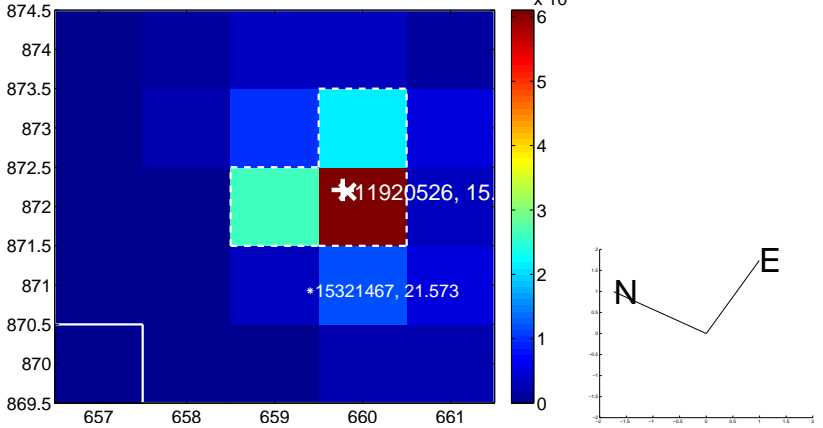
Q15 no OOT image



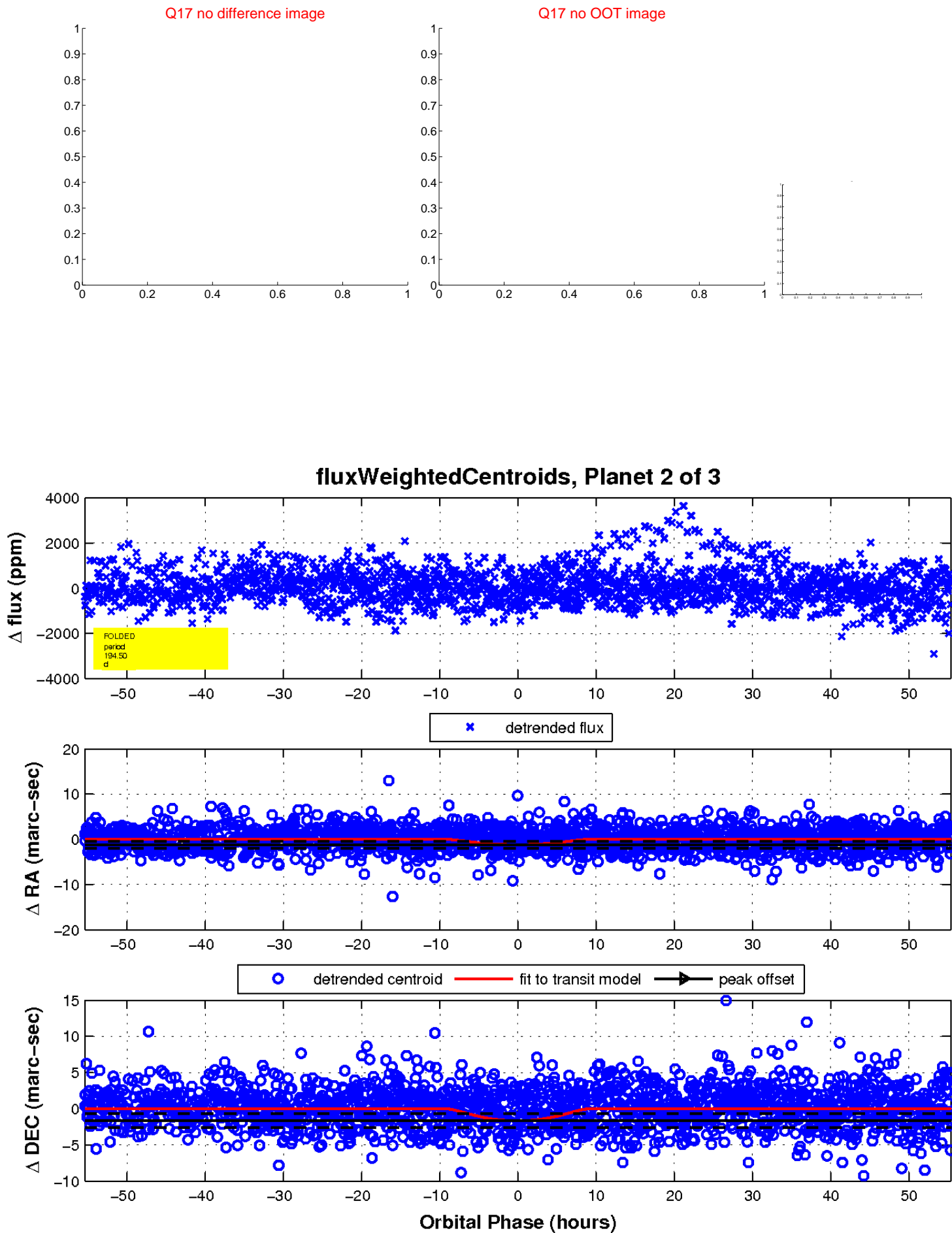
Q16 difference image. Poor Quality



Q16 OOT image

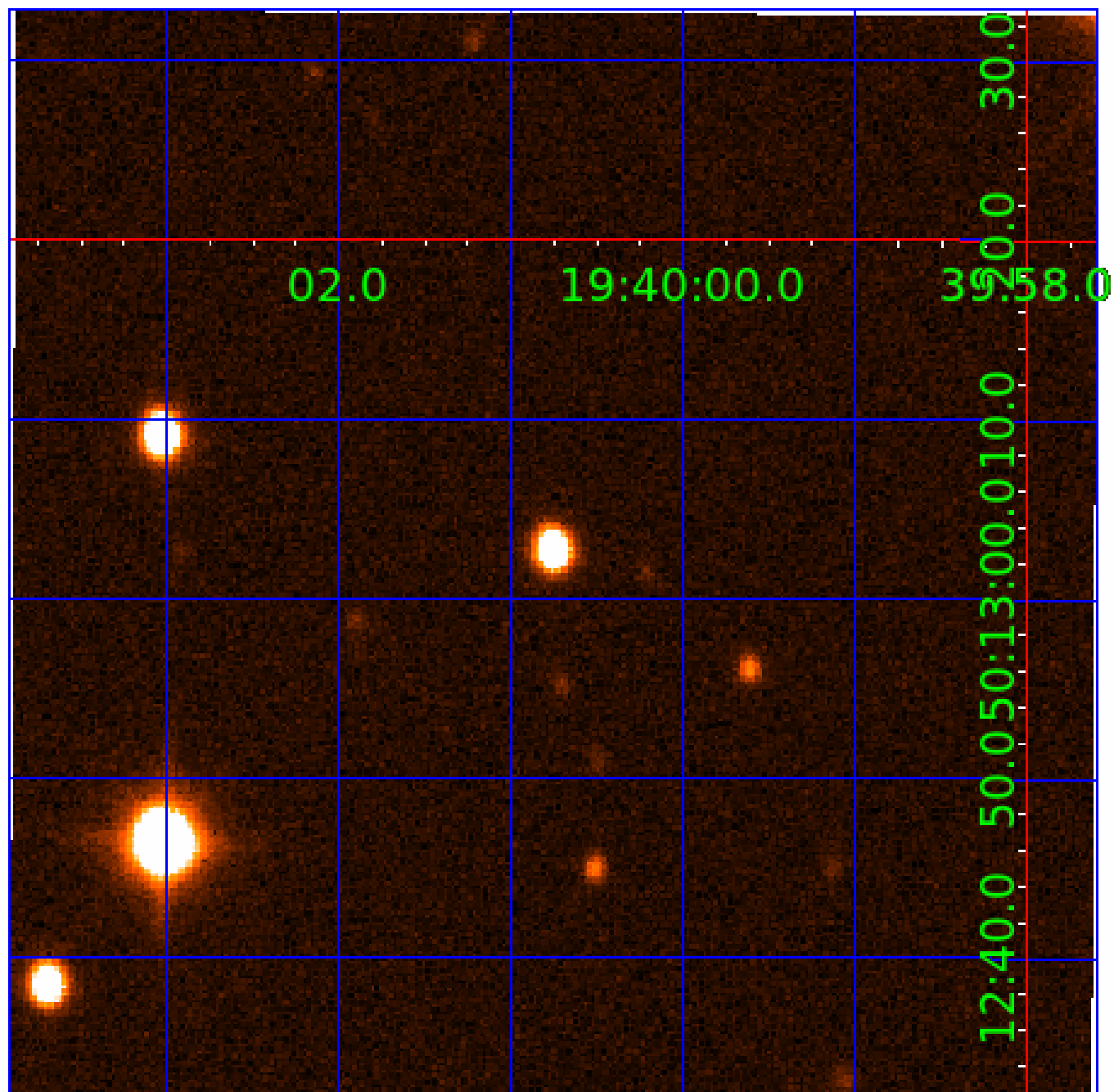


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011920526

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})
011920526-01	OBS	No	1.668210	133.168987	641.2	6.000	8.0	-1.0	0.84	4816	2.04	518.18
011920526-02	OBS	No	194.500328	193.512161	691.0	18.471	12.3	6.3	0.84	4816	3.31	0.91
011920526-03	OBS	No	1.668191	132.366868	69.6	12.315	8.1	11.3	0.84	4816	0.67	518.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011920526-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_NOFITS—HALO_GHOST
011920526-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
011920526-03	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_RESOLVED_OFFSET—HALO_GHOST

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

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

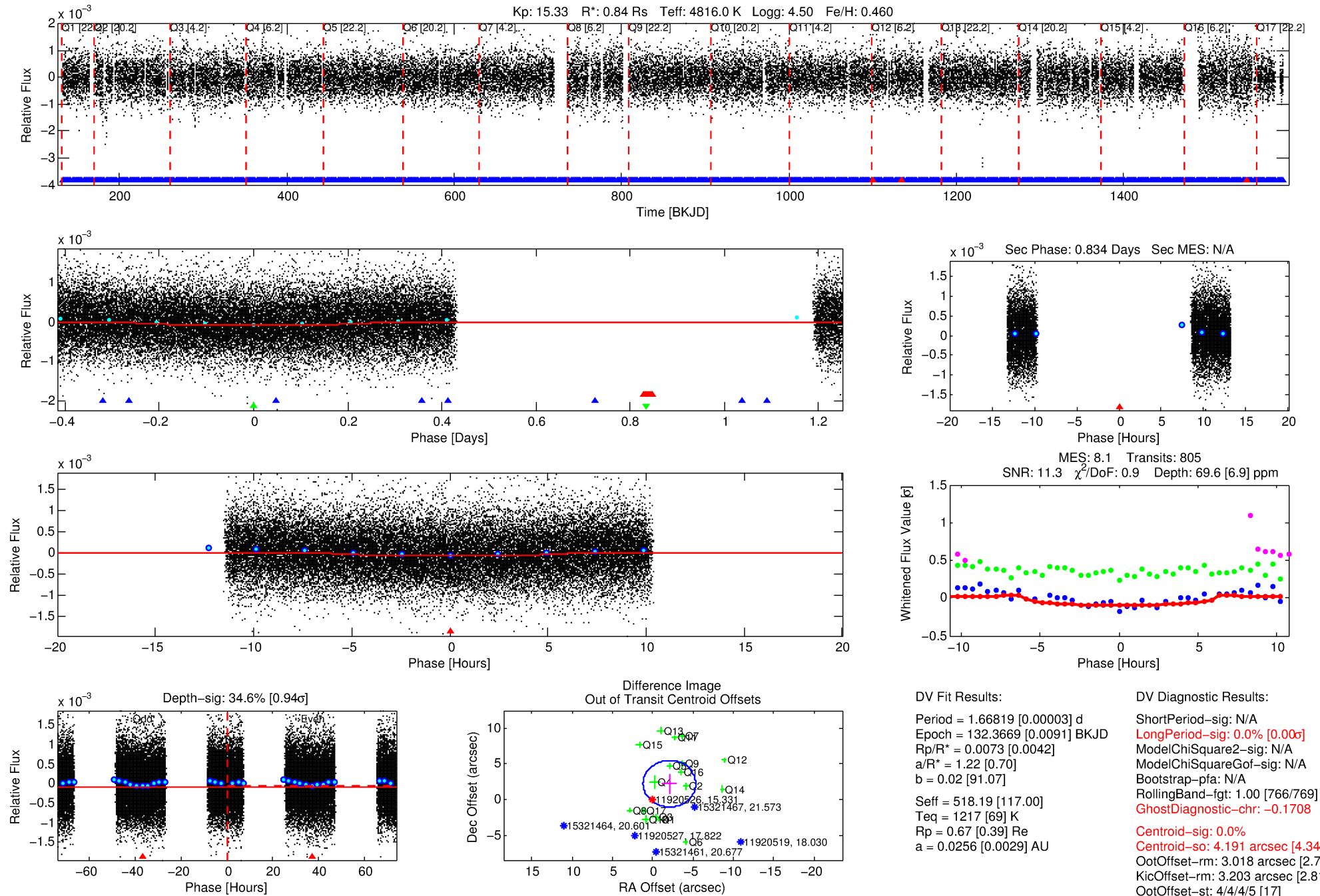
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011920526-03

No Significant Match Found

DV One-Page Summary

KIC: 11920526 Candidate: 3 of 3 Period: 1.668 d



DV Fit Results:

Period = 1.66819 [0.00003] d
Epoch = 132.3669 [0.0091] BKJD
Rp/R* = 0.0073 [0.0042]
a/R* = 1.22 [0.70]
b = 0.02 [91.07]
Seff = 518.19 [117.00]
Teq = 1217 [69] K
Rp = 0.67 [0.39] Re
a = 0.0256 [0.0029] AU

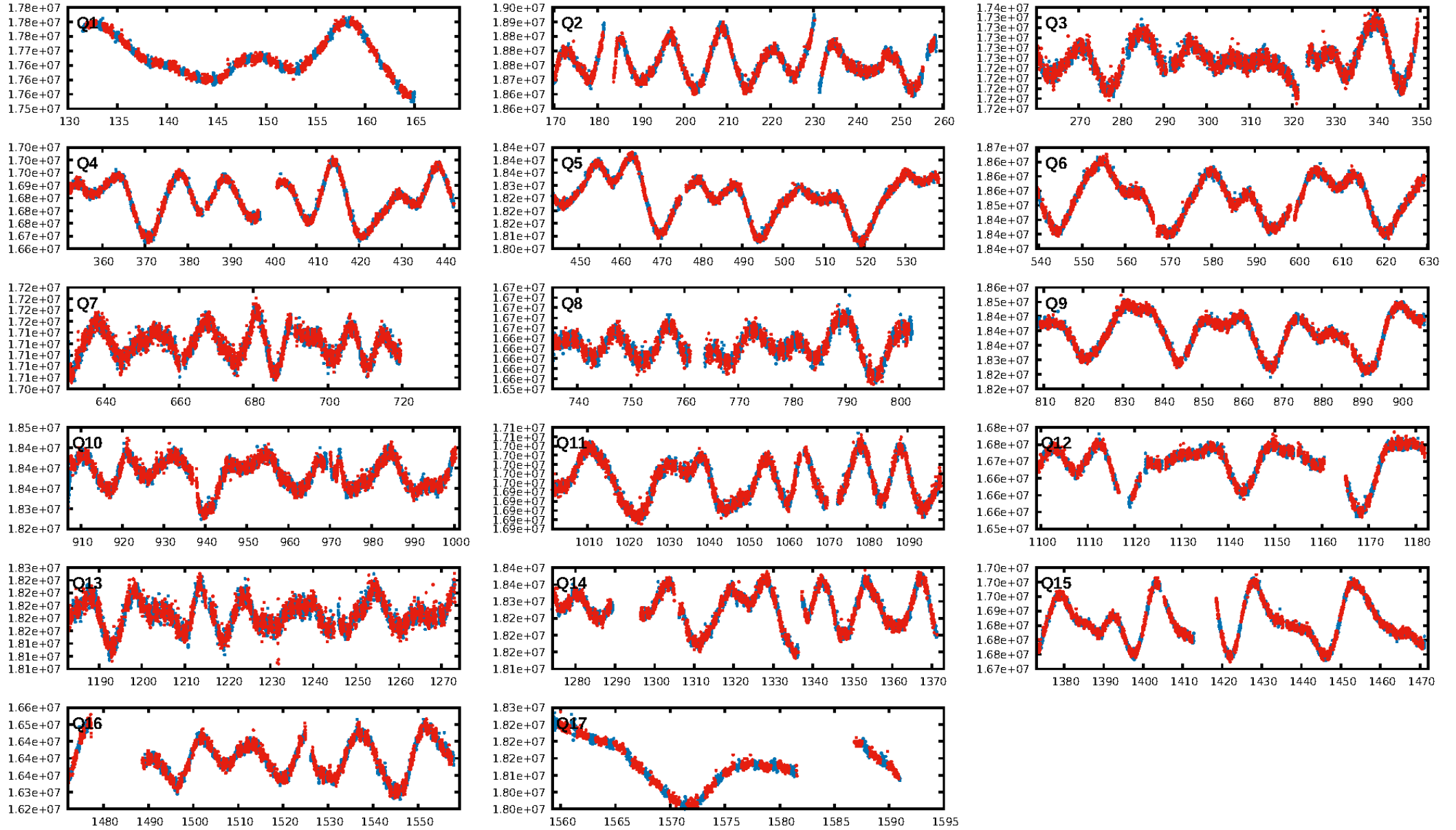
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [766/769]
GhostDiagnostic-chr: -0.1708
Centroid-sig: 0.0%
Centroid-so: 4.191 arcsec [4.34 σ]
OotOffset-rm: 3.018 arcsec [2.77 σ]
KicOffset-rm: 3.203 arcsec [2.81 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.00 [0/17]
DiffImageOverlap-fno: 0.00 [0/17]

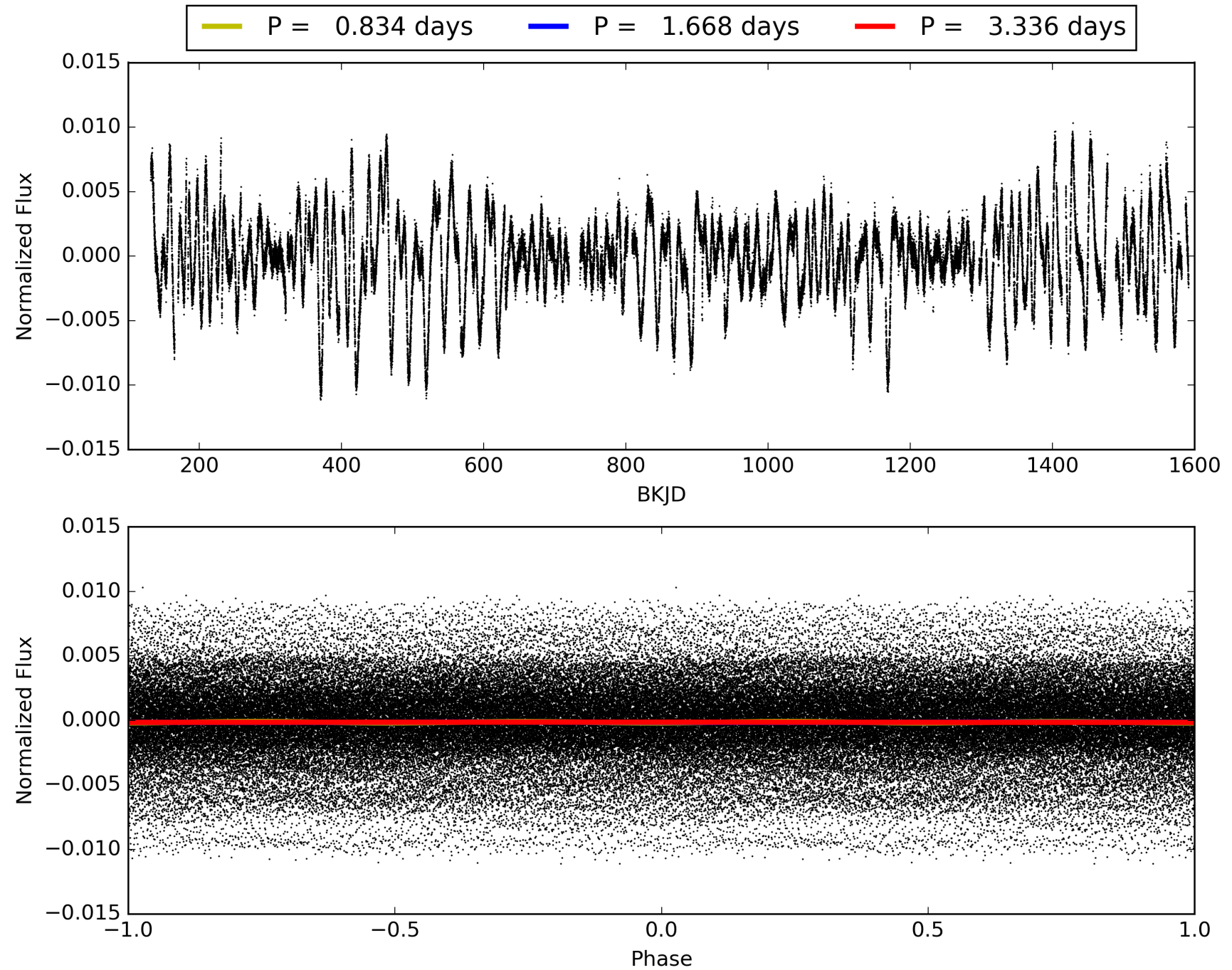
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 03:03:09 Z

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

TCE 011920526-03, PDC Light Curves

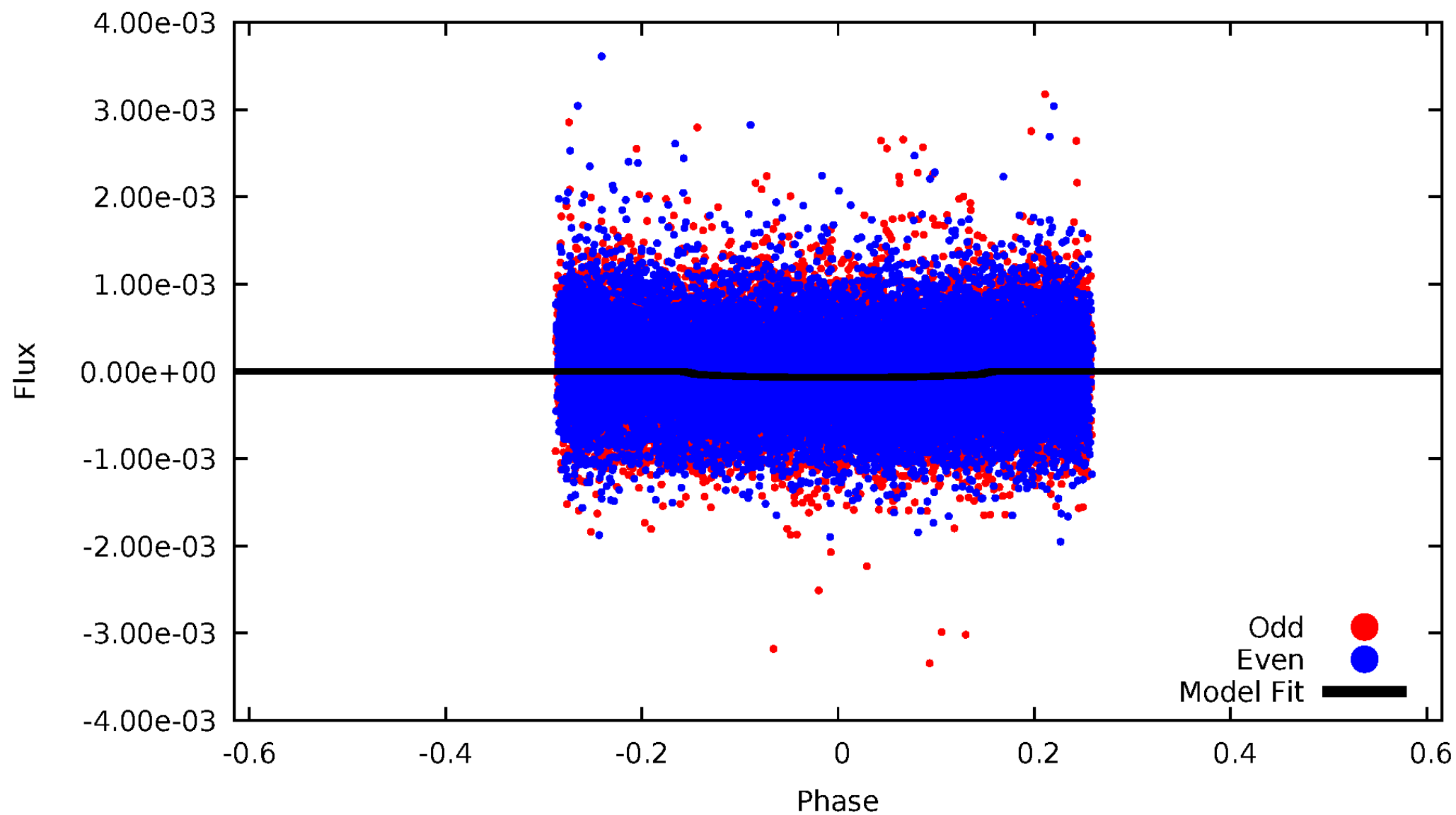


TCE 011920526-03



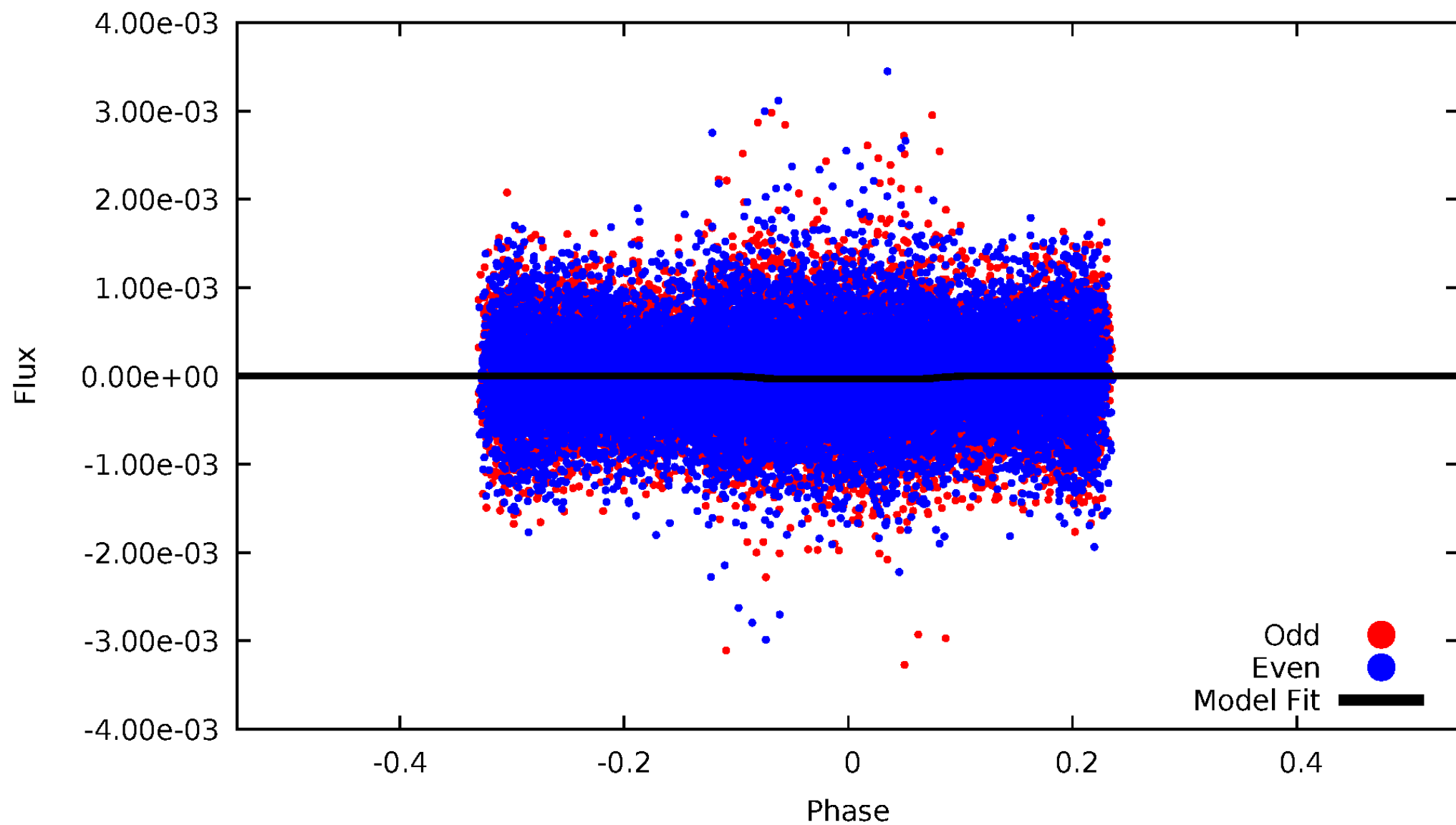
DV Odd/Even

TCE 011920526-03



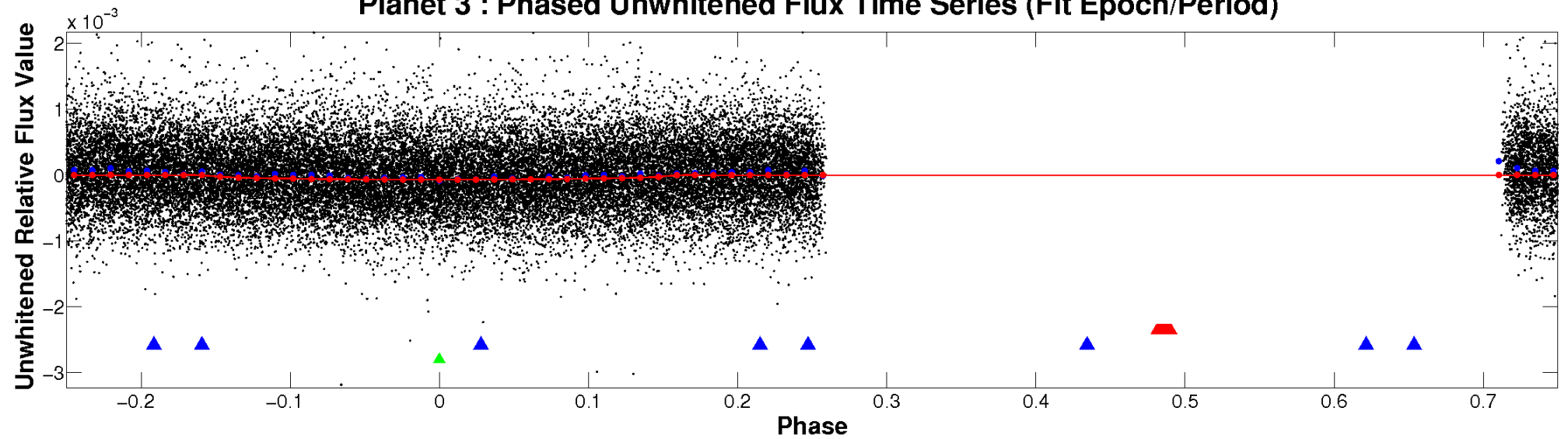
ALT Odd/Even

TCE 011920526-03

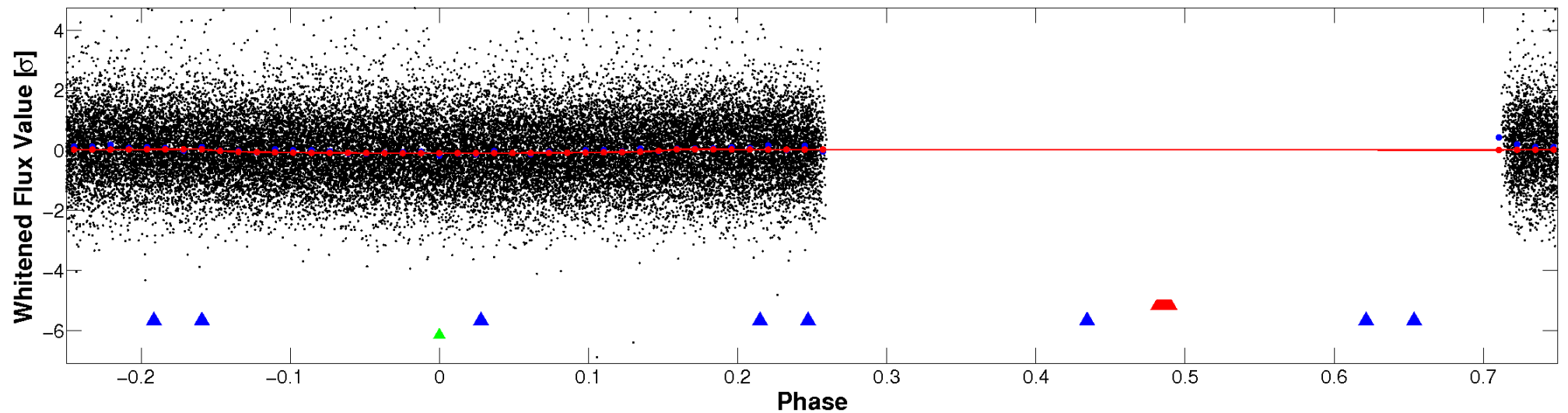


Non-Whitened Vs. Whitened Light Curve

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

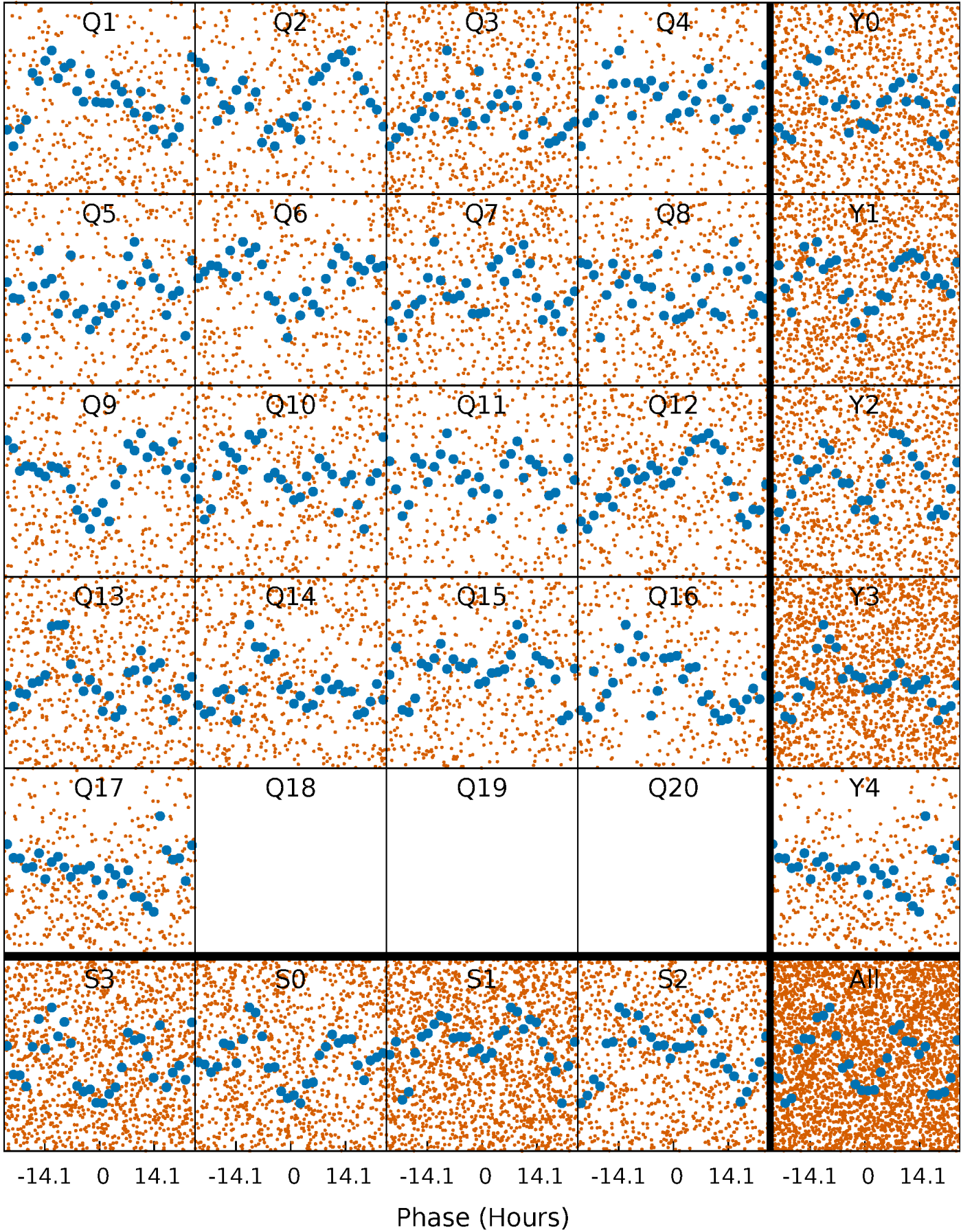


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



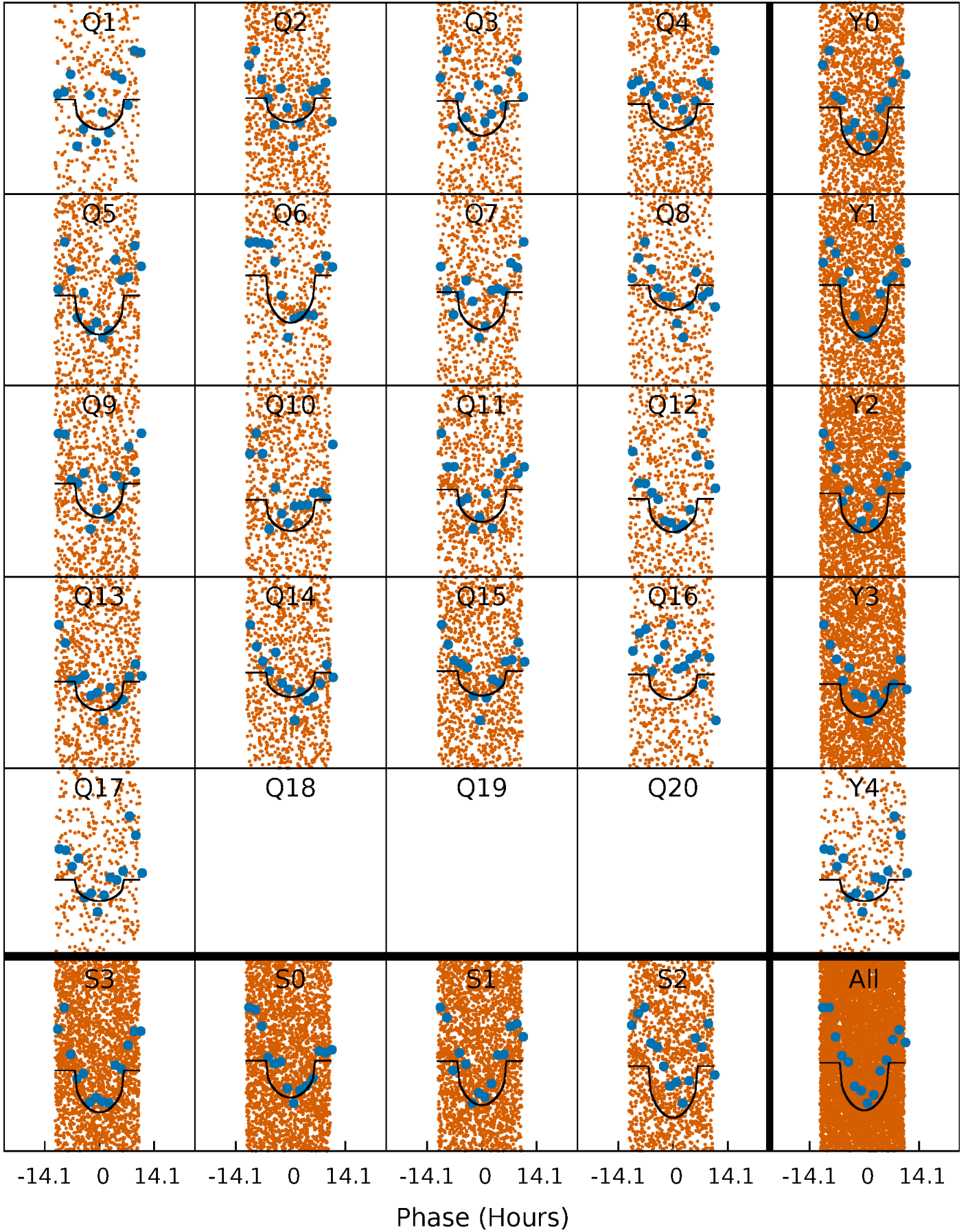
PDC Quarter-Phased Transit Curves

TCE 011920526-03 P= 1.668191 Days $T_0=132.366868$ (BKJD)



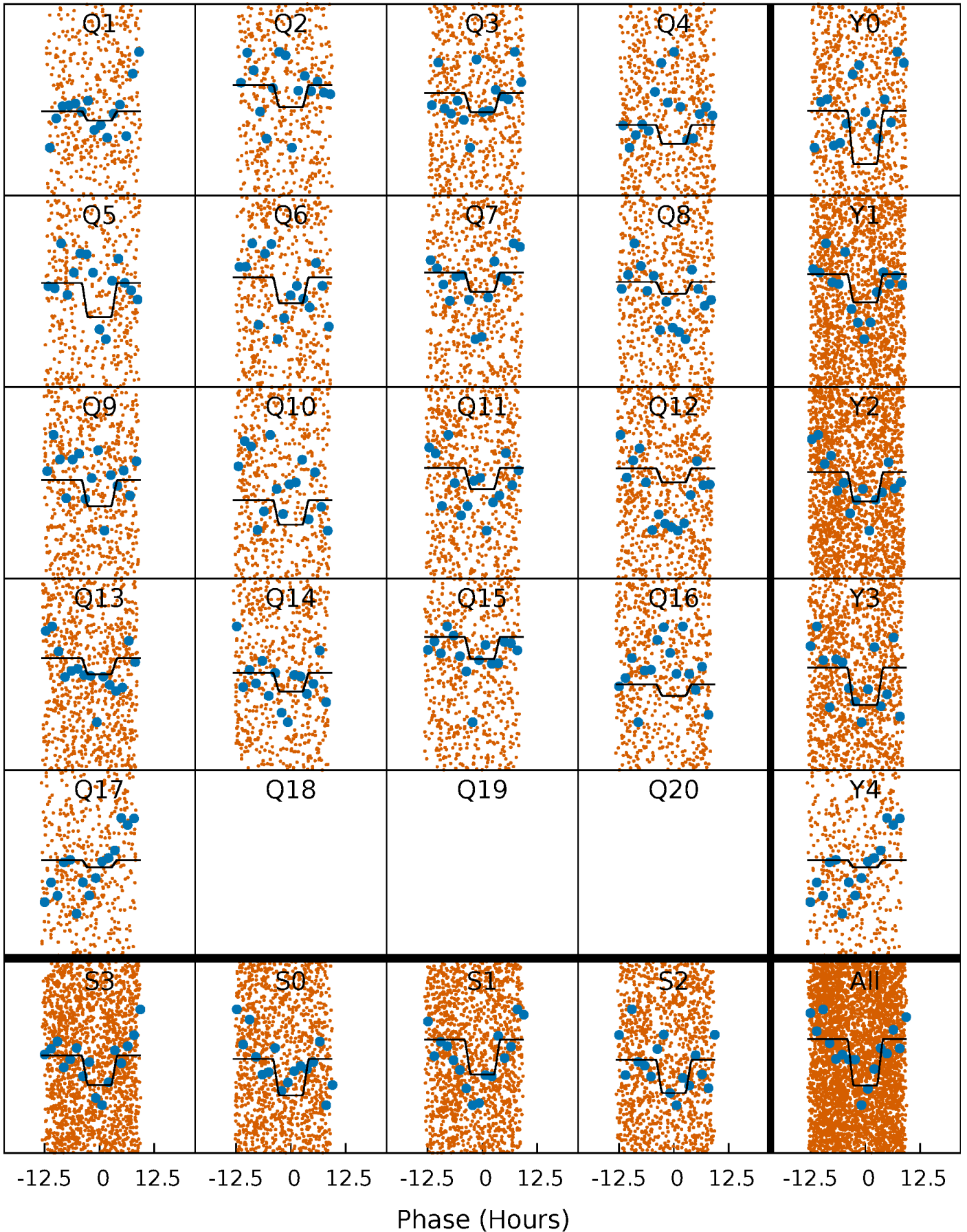
DV Quarter-Phased Transit Curves

TCE 011920526-03 $P = 1.668191$ Days $T_0 = 132.366868$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

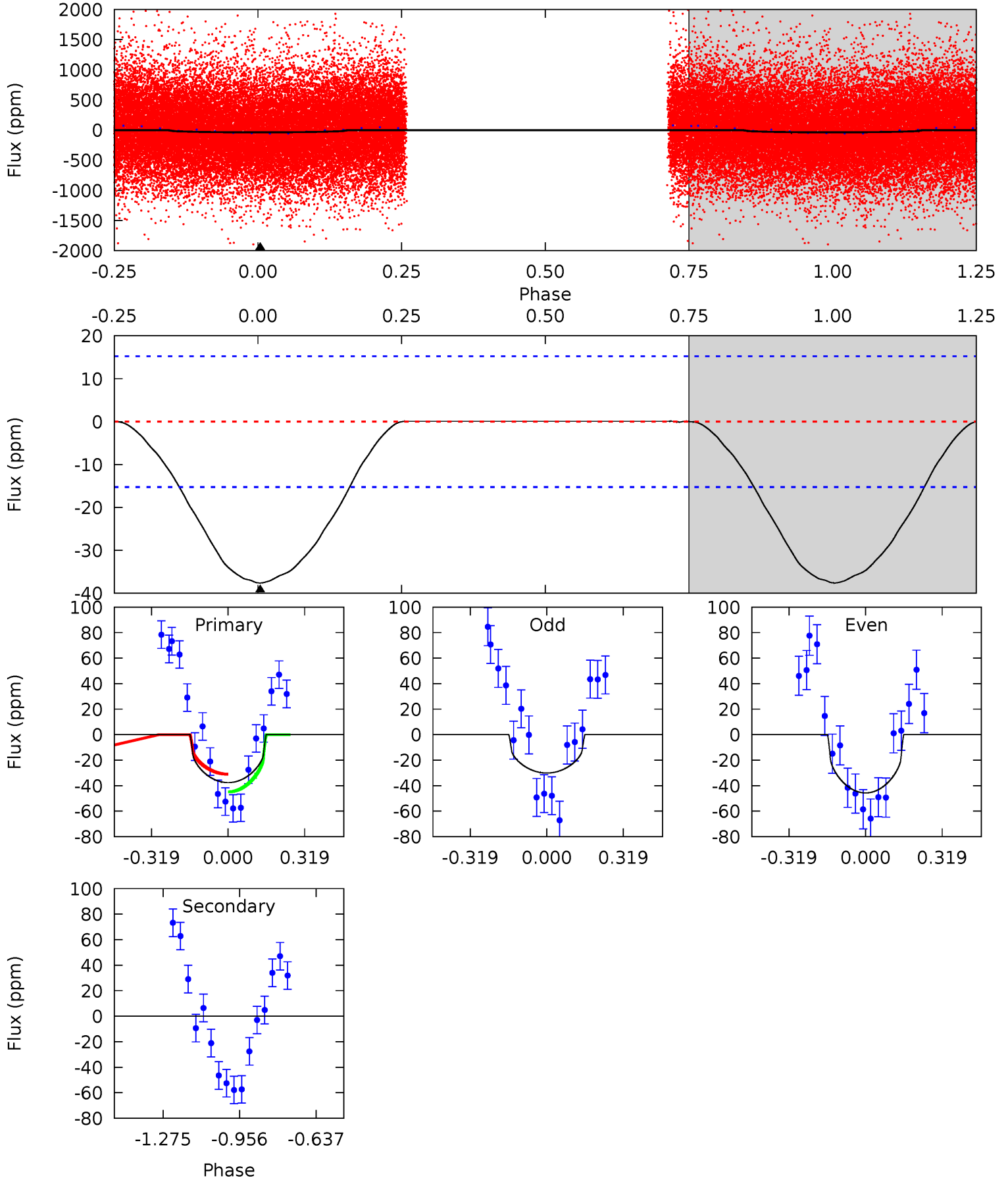
TCE 011920526-03 P= 1.668267 Days $T_0=132.388883$ (BKJD)



DV Model-Shift Uniqueness Test

011920526-03, P = 1.668191 Days, E = 130.698677 Days

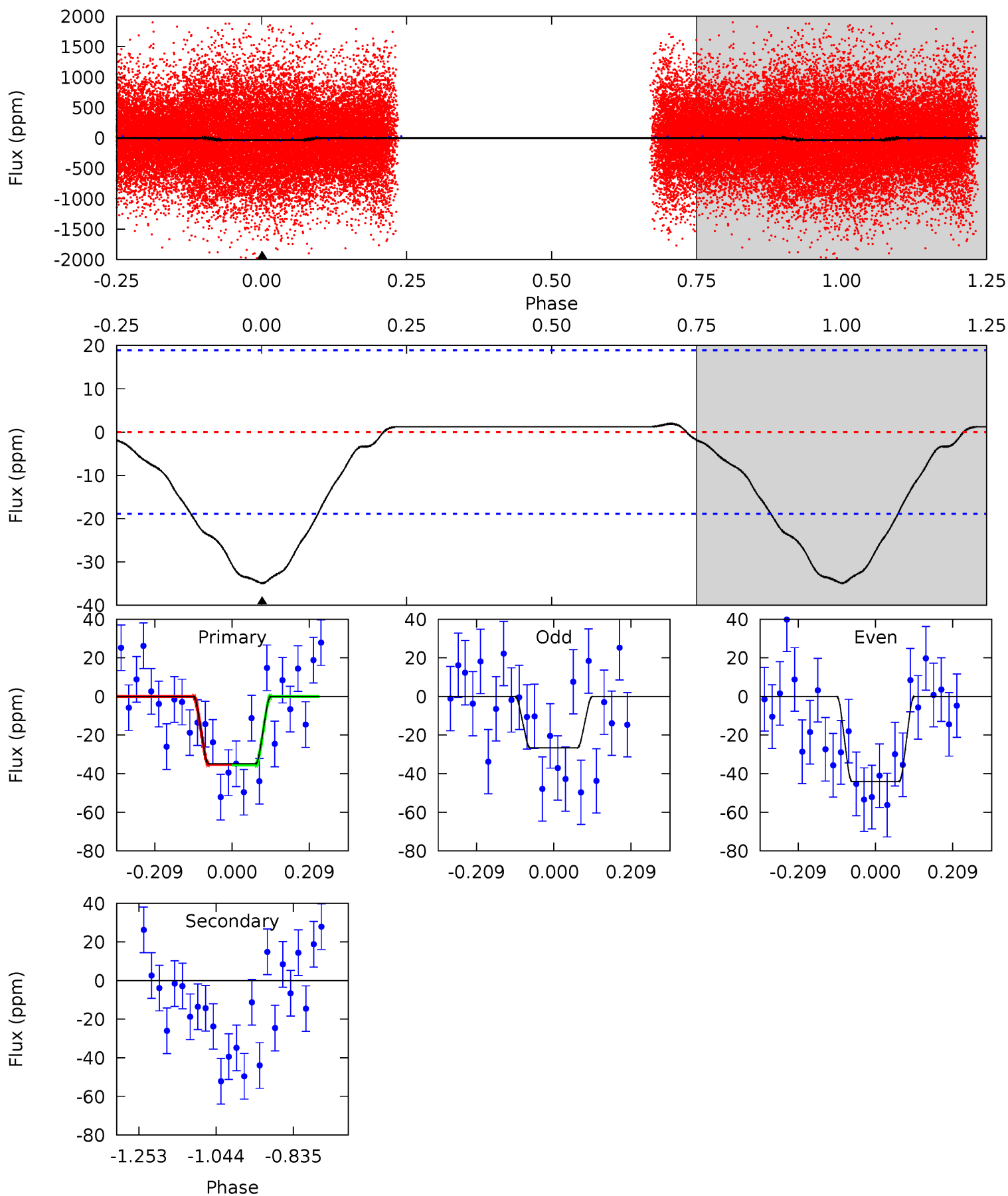
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.7	0	0	0	4.32	1.00	0.02	10.7	10.7	0	0	2.24	0.96	0.00	2.05



Alt Model-Shift Uniqueness Test

011920526-03, P = 1.668267 Days, E = 130.720616 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.15	0	0	0	4.41	1.26	0.56	8.15	8.15	0	0	2.02	1.32	0.05	0.03



Stellar Parameters For KIC 011920526

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4816^{+157}_{-143}	$4.495^{+0.090}_{-0.110}$	$0.460^{+0.050}_{-0.300}$	$0.839^{+0.076}_{-0.093}$	$0.802^{+0.051}_{-0.046}$	$1.911^{+0.729}_{-0.529}$
	+3%/-3%	+2%/-2%	+11%/-65%	+9%/-11%	+6%/-6%	+38%/-28%
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 011920526-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 4	$0.66^{+0.41}_{-0.36}$	1704^{+77}_{-72}	-2229^{+5349}_{-981}	$0.074^{+3.443}_{-4.113}$
Alt.	0 ± 4	$0.57^{+0.38}_{-0.32}$	1712^{+71}_{-80}	1584^{+1896}_{-5022}	$0.306^{+6.690}_{-6.256}$

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 $A_{obs} \gg 1.0$

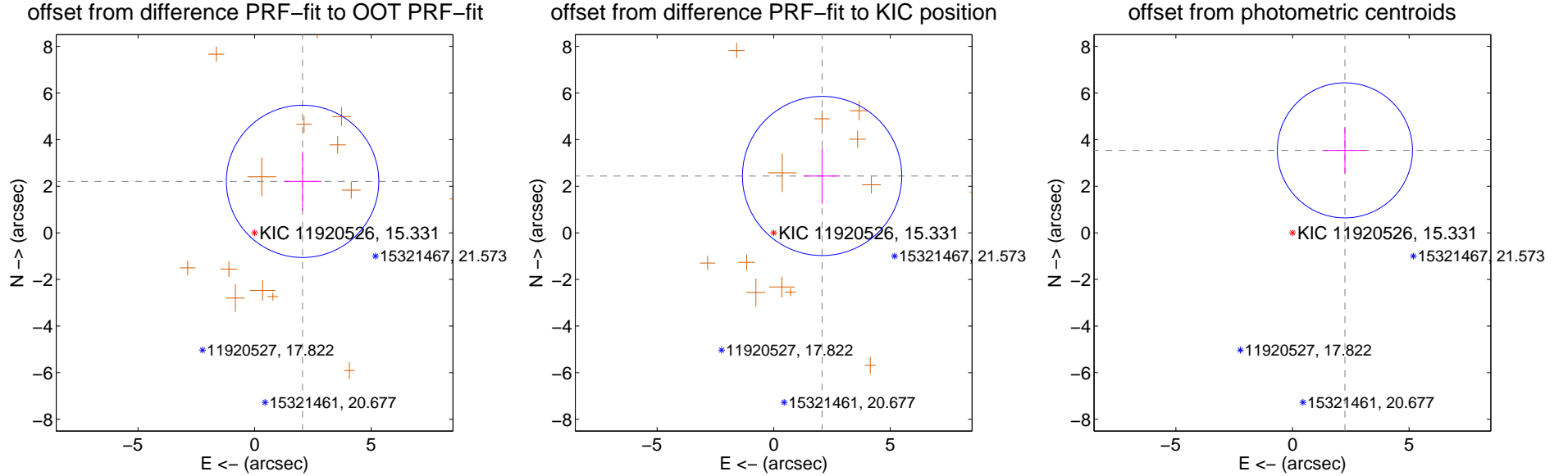
DV Centroid Data

Supplemental centroid analysis for 011920526-03. Kepler magnitude: 15.33. Transit SNR 11.26

There are 0 quarters with good PRF difference image offsets

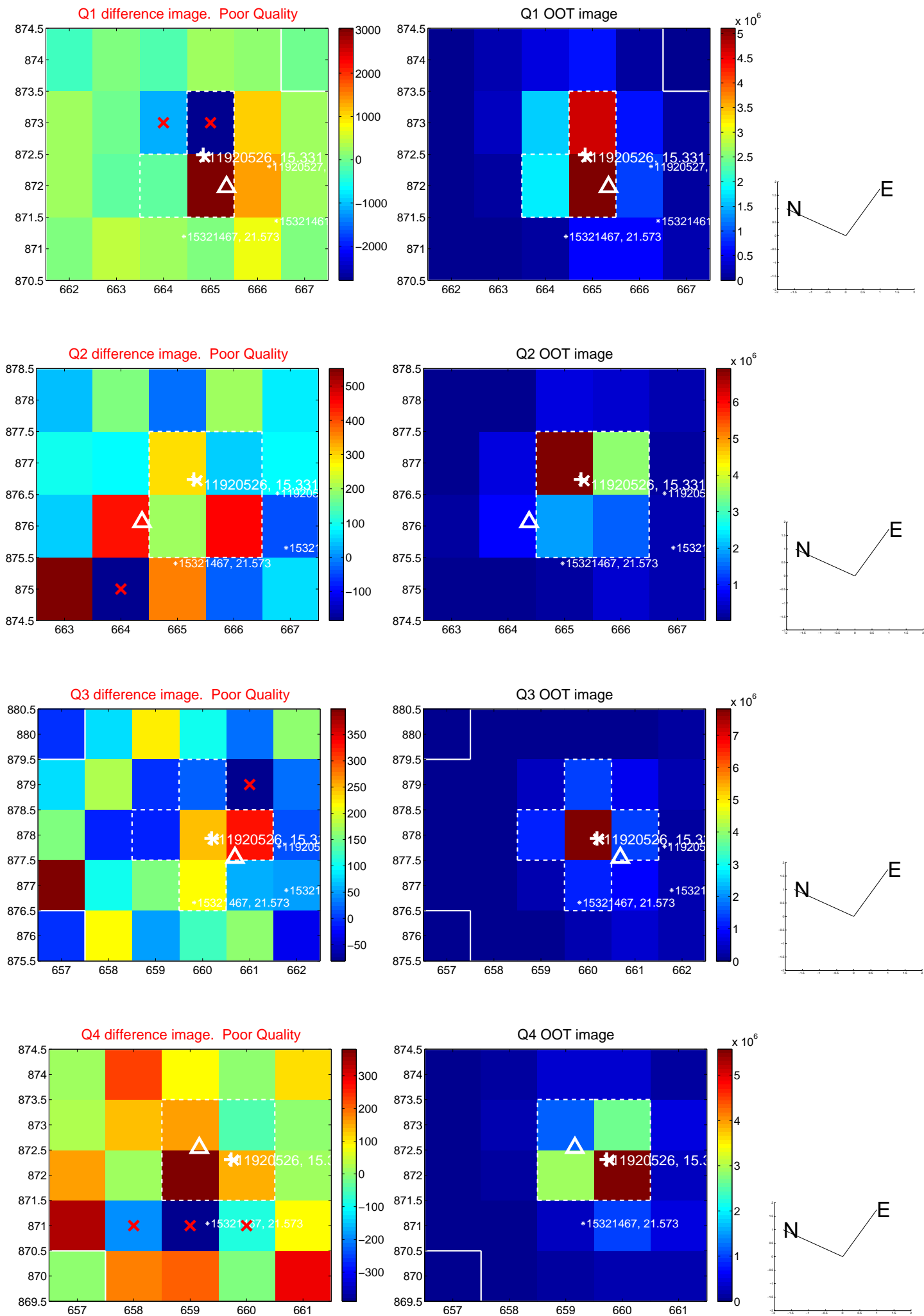
The direct PRF centroid is offset from the target star catalog position by about 0.29 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.018 ± 1.089	2.77	-2.057 ± 0.803	2.208 ± 1.287
PRF-fit source offset from KIC position	3.203 ± 1.138	2.81	-2.075 ± 0.762	2.440 ± 1.202
photometric centroid source offset	4.19 ± 0.97	4.34	-2.25 ± 0.91	3.54 ± 0.99

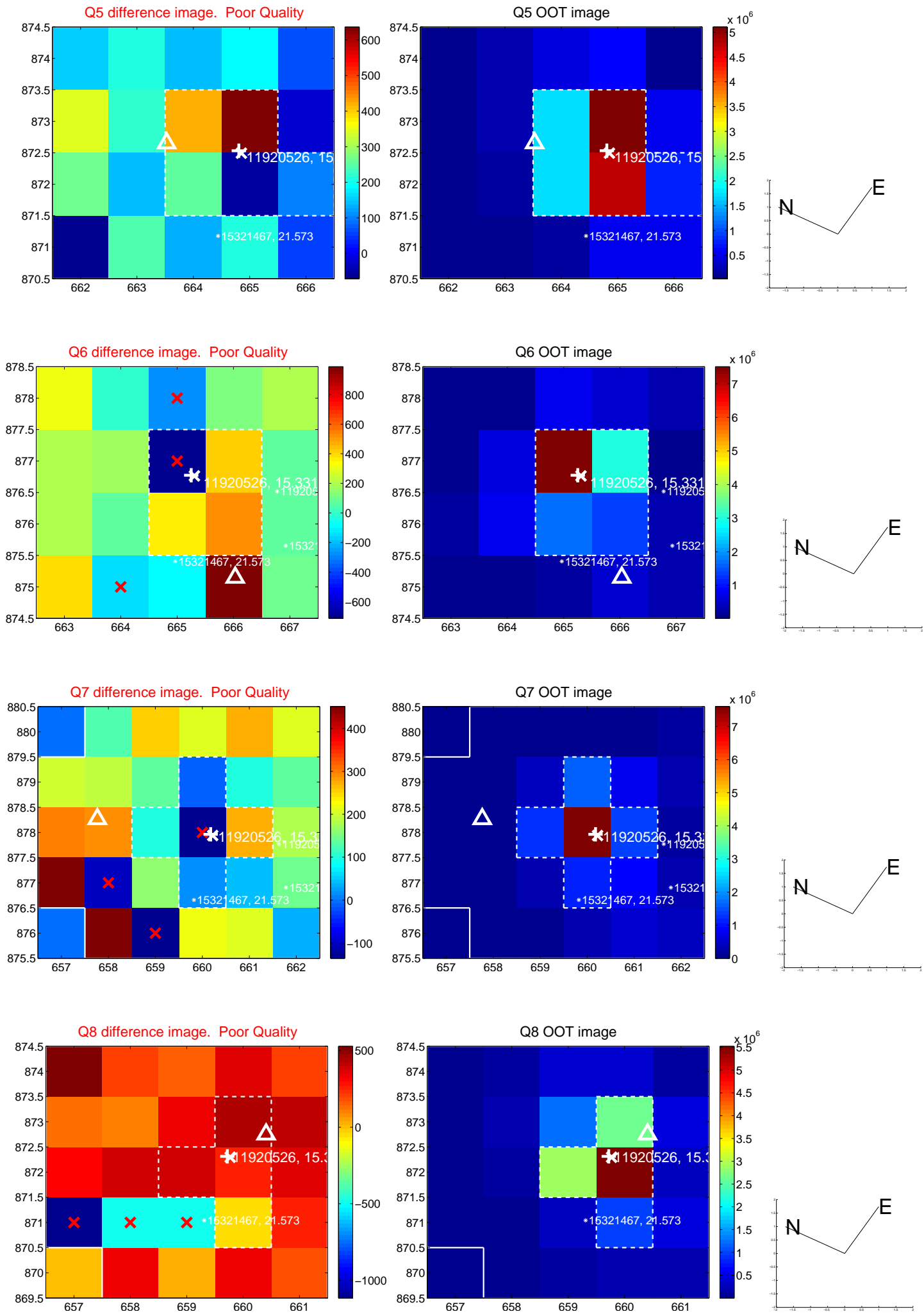


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

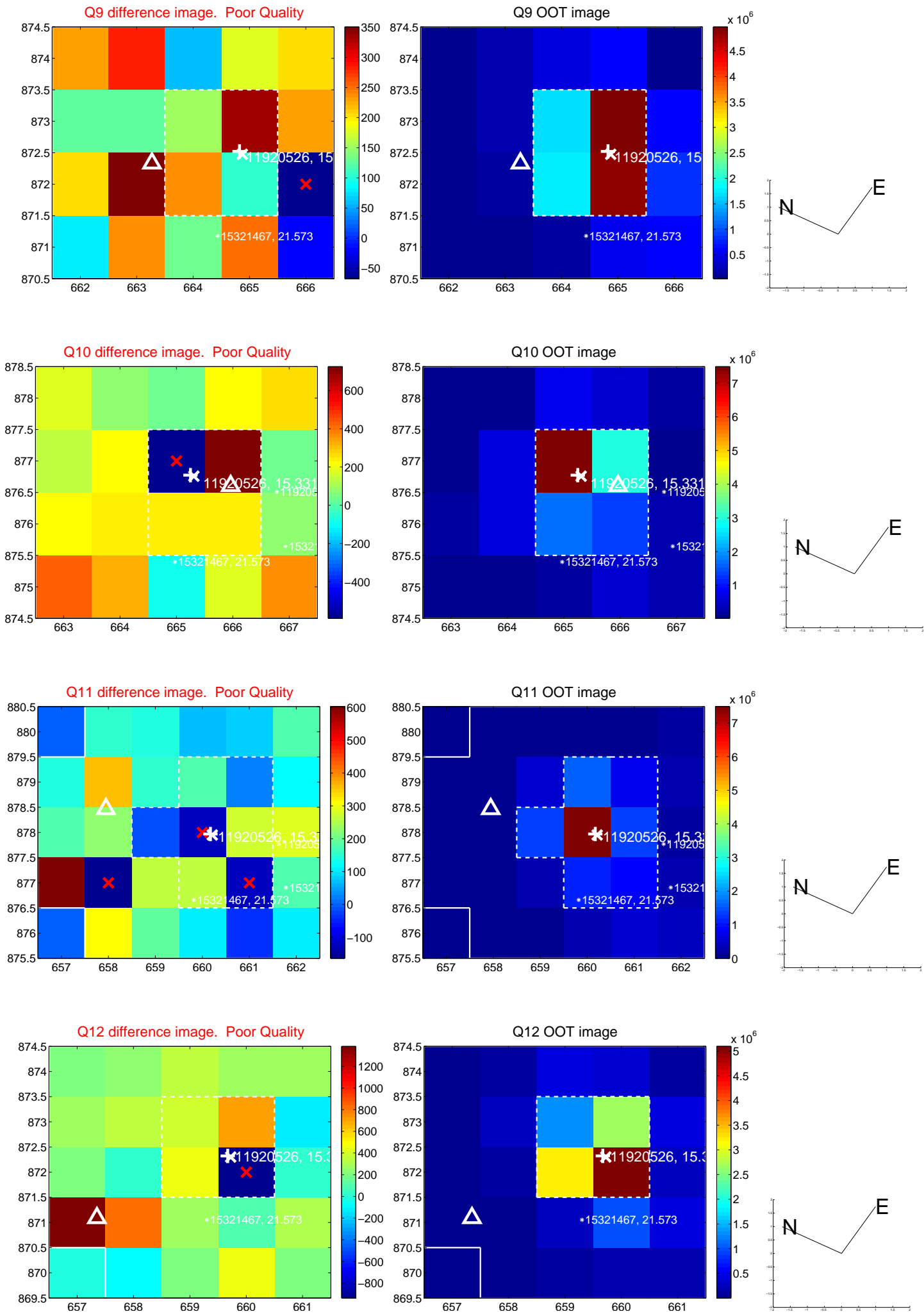
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



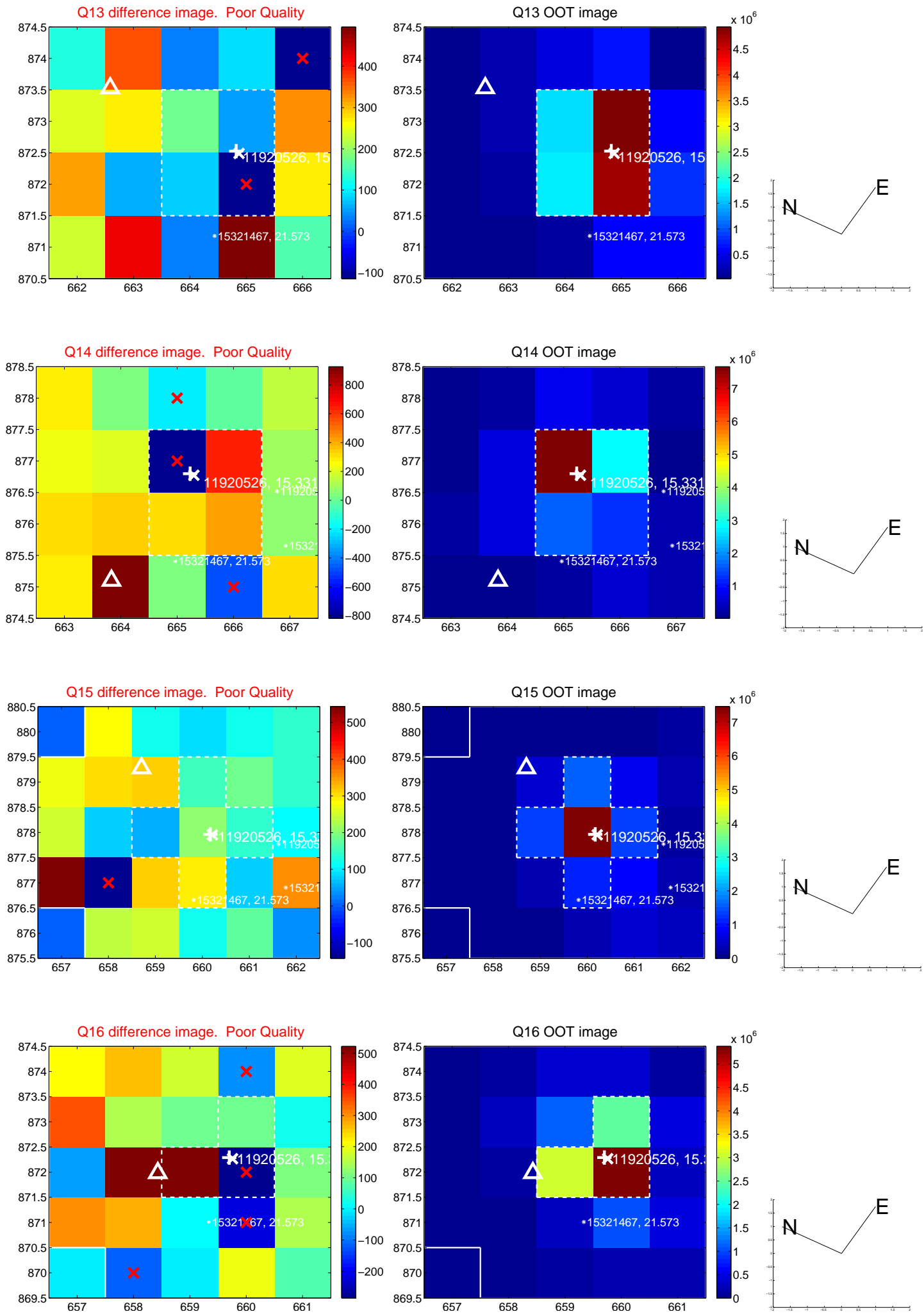
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



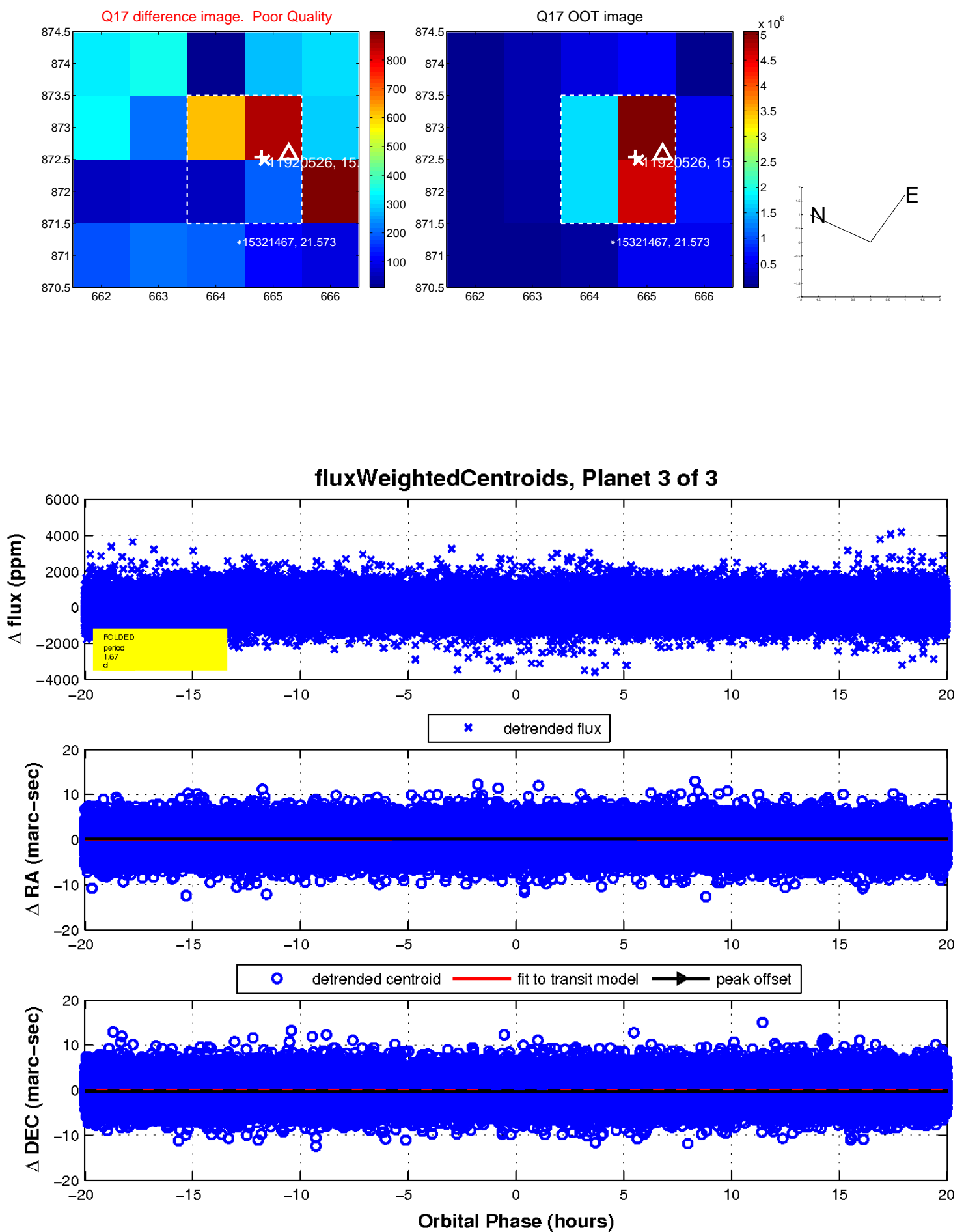
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

