

KIC 011013608

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})
011013608-01	OBS	No	472.226020	279.982511	6988.5	3.835	31.9	22.9	1.35	6453	12.52	1.98
011013608-02	OBS	No	277.428166	164.538285	741.4	3.000	18.9	-1.0	1.35	6453	3.71	4.02
011013608-03	OBS	No	0.635325	131.729744	1199.6	1.500	8.8	-1.0	1.35	6453	4.73	13329.44

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011013608-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
011013608-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
011013608-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_NOFITS

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

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

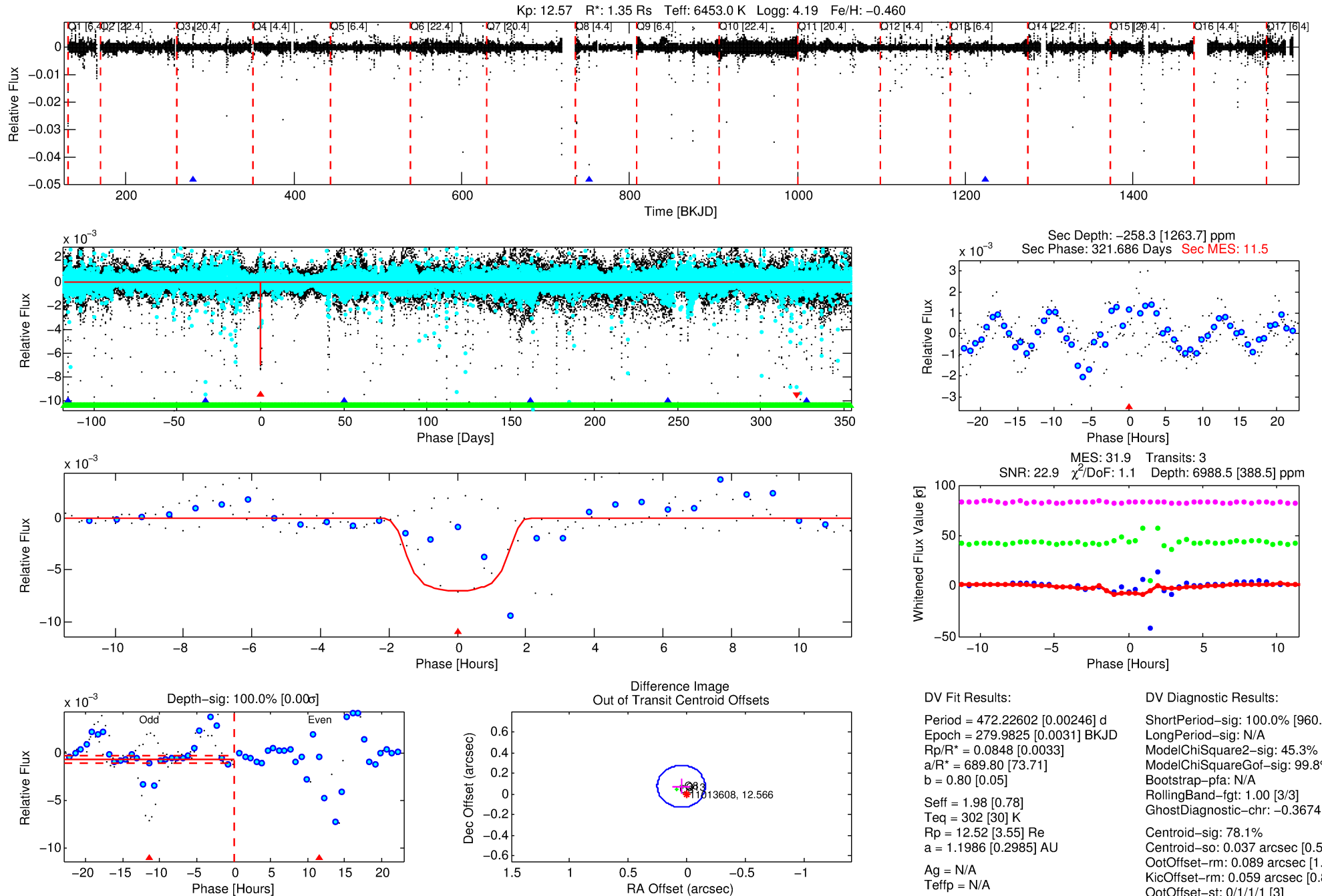
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011013608-01

No Significant Match Found

DV One-Page Summary

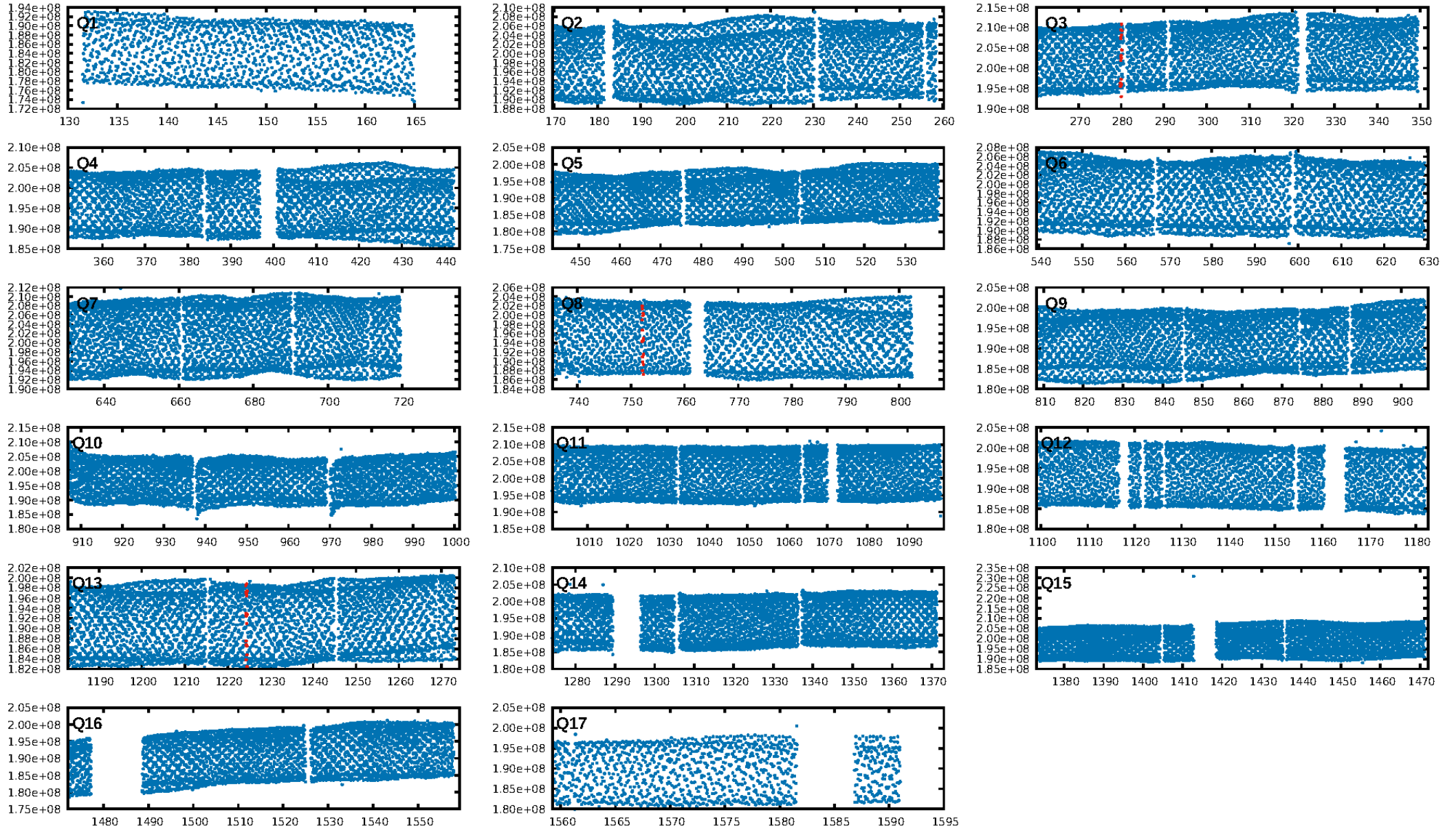
KIC: 11013608 Candidate: 1 of 3 Period: 472.226 d



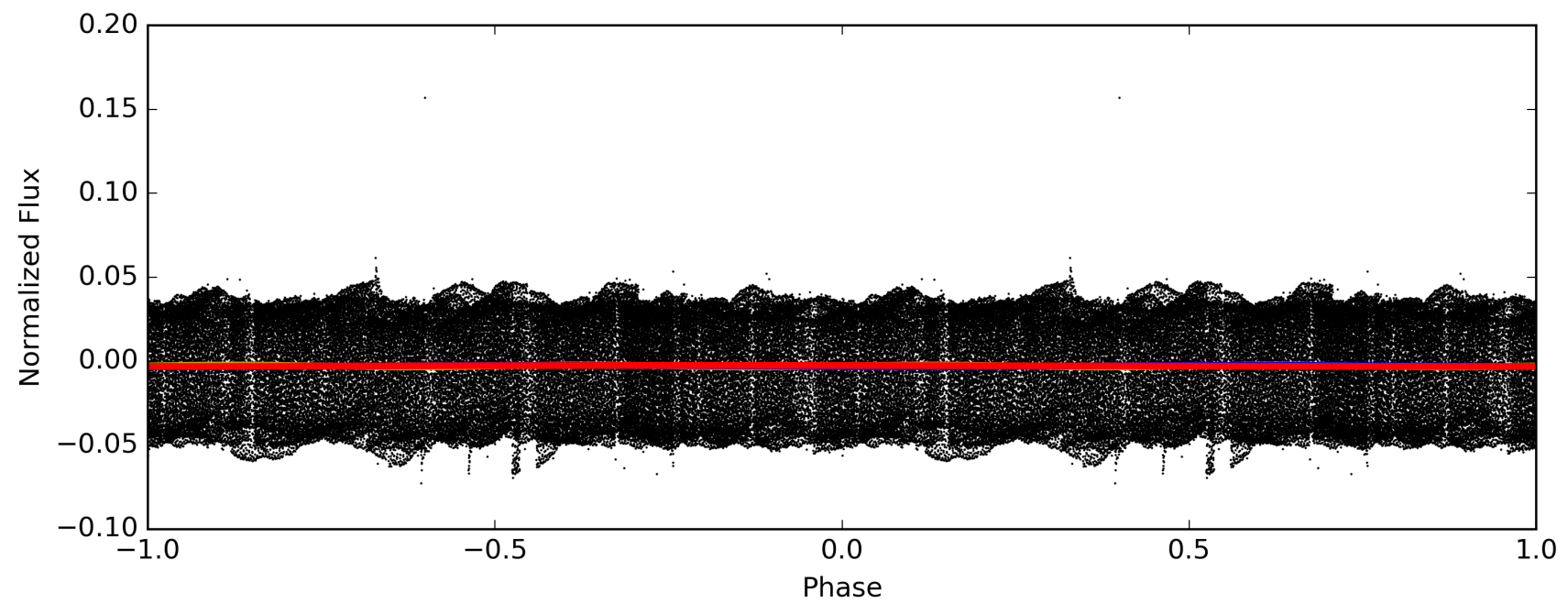
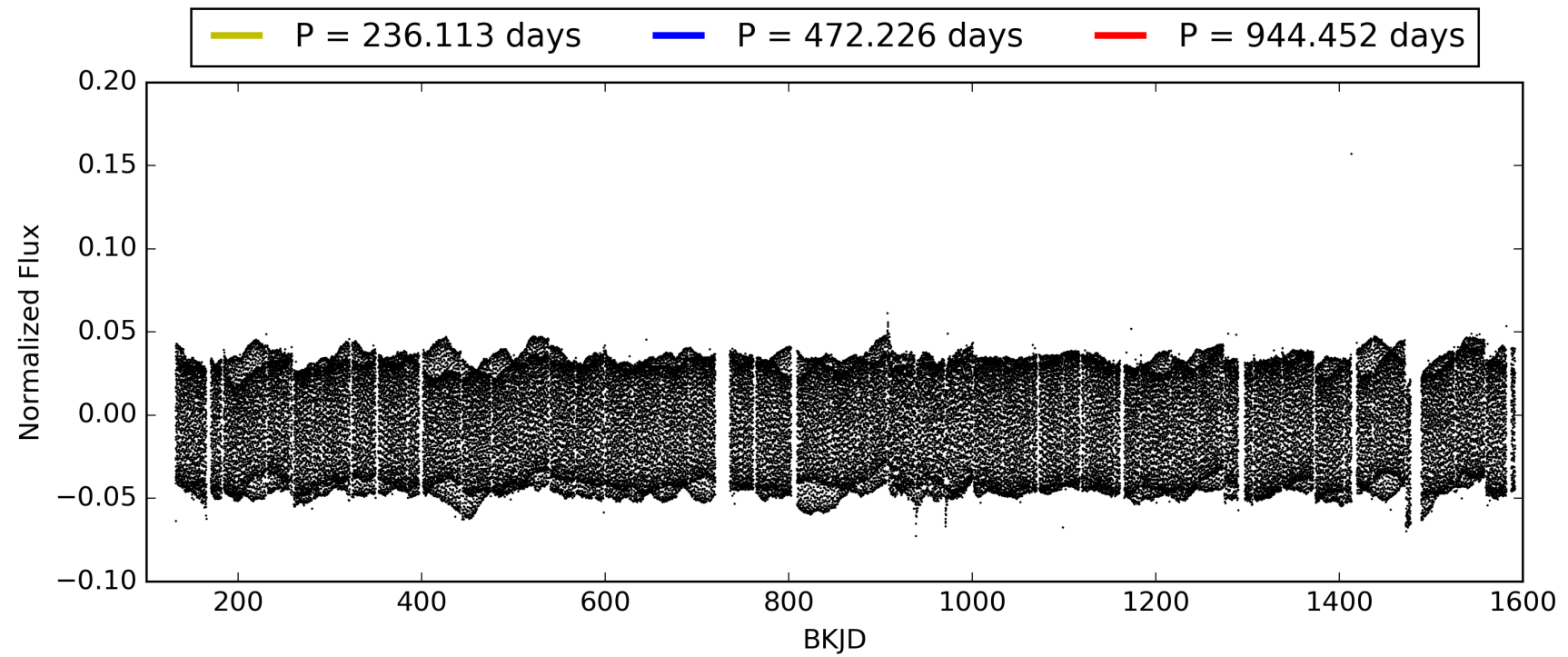
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 10:02:05 Z

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

TCE 011013608-01, PDC Light Curves

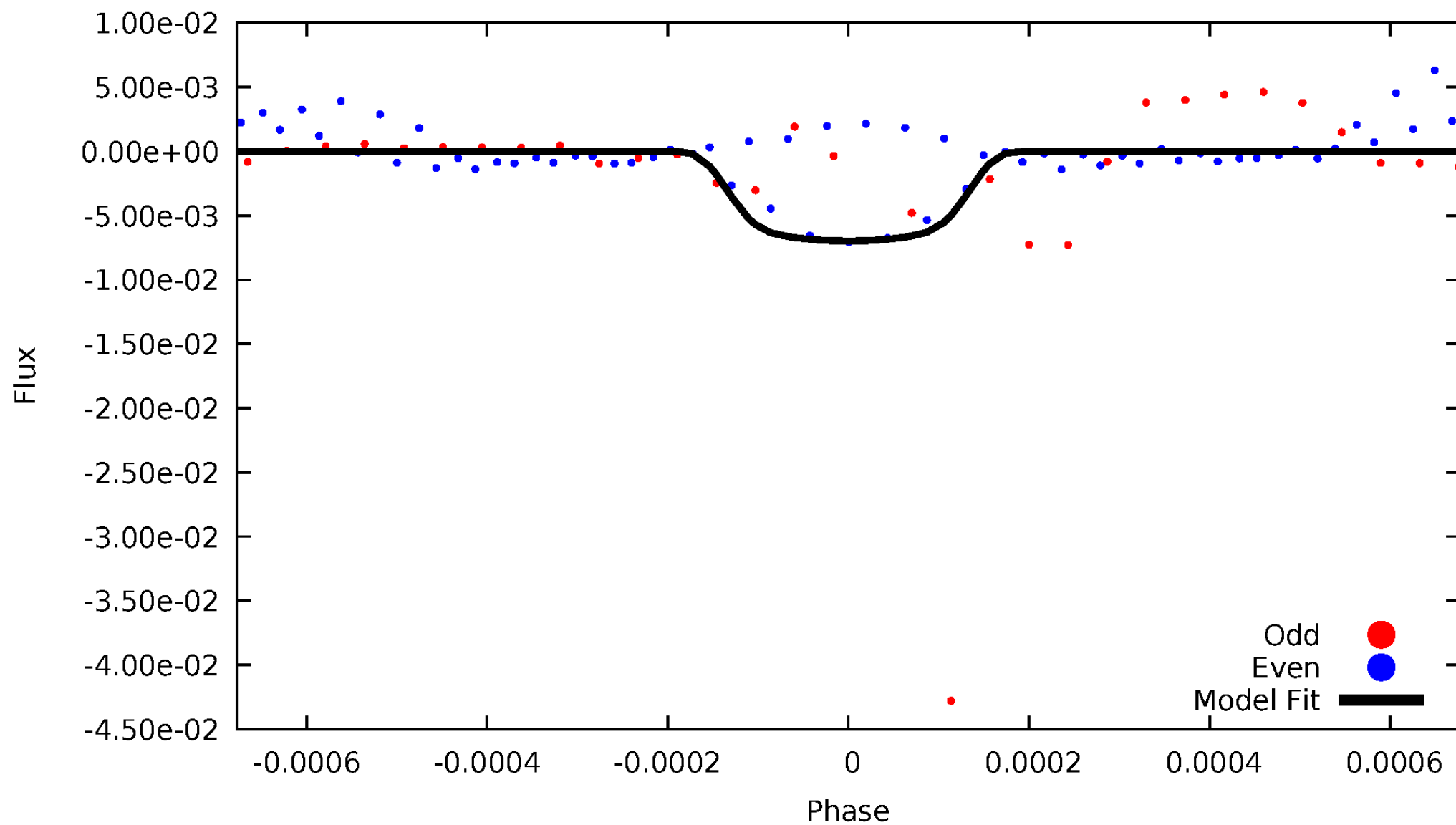


TCE 011013608-01



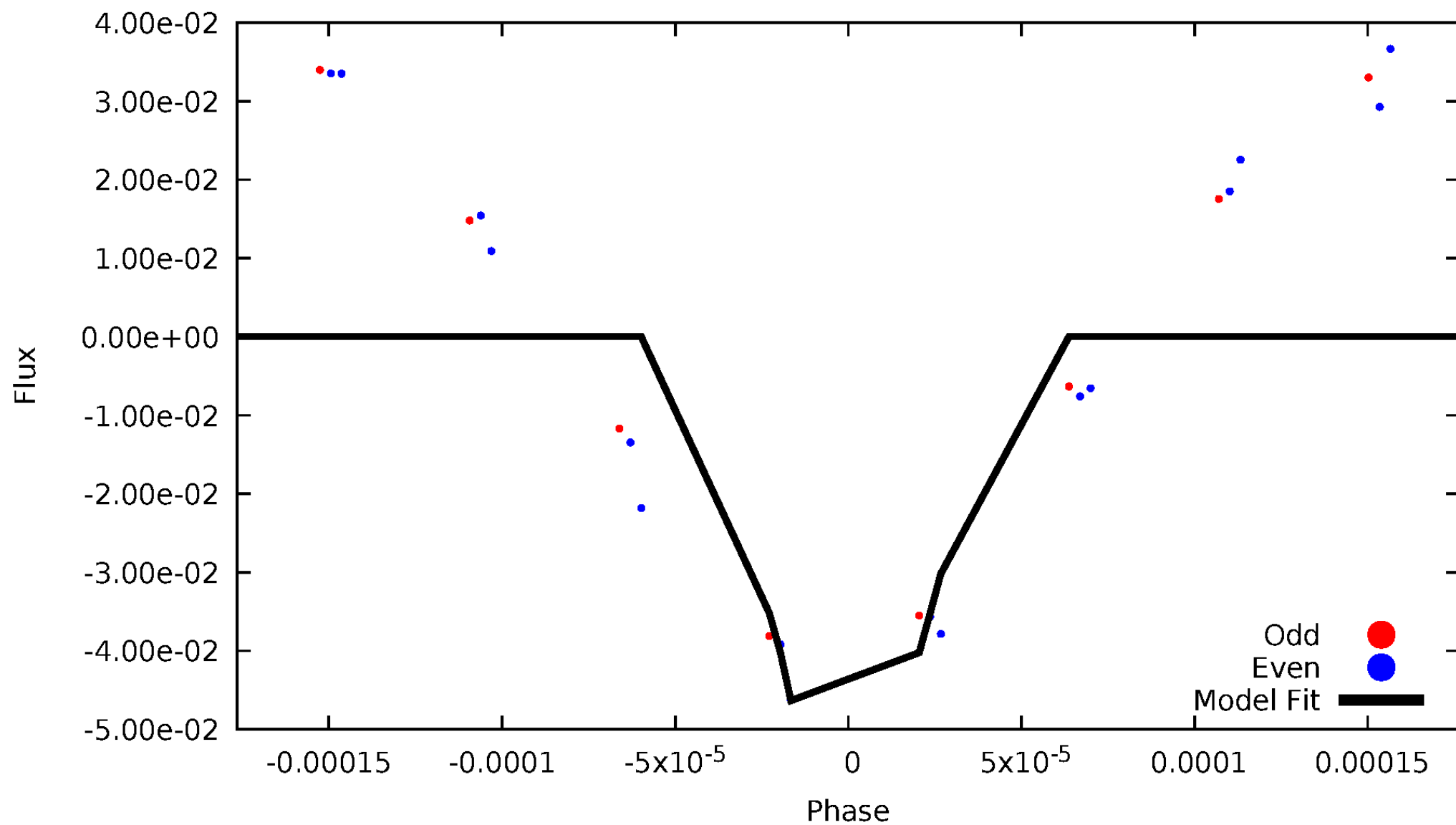
DV Odd/Even

TCE 011013608-01



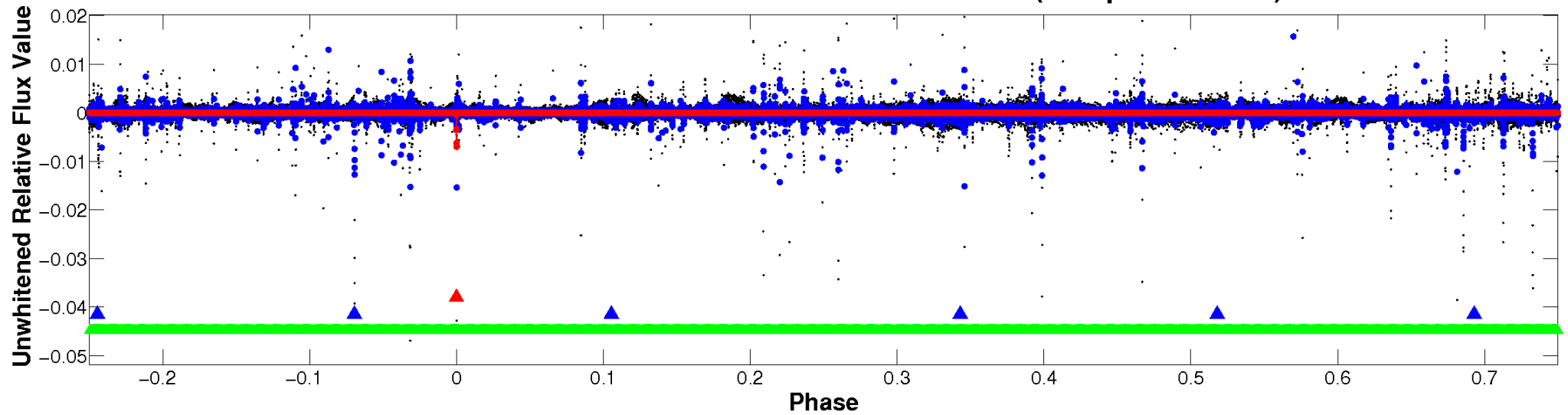
ALT Odd/Even

TCE 011013608-01

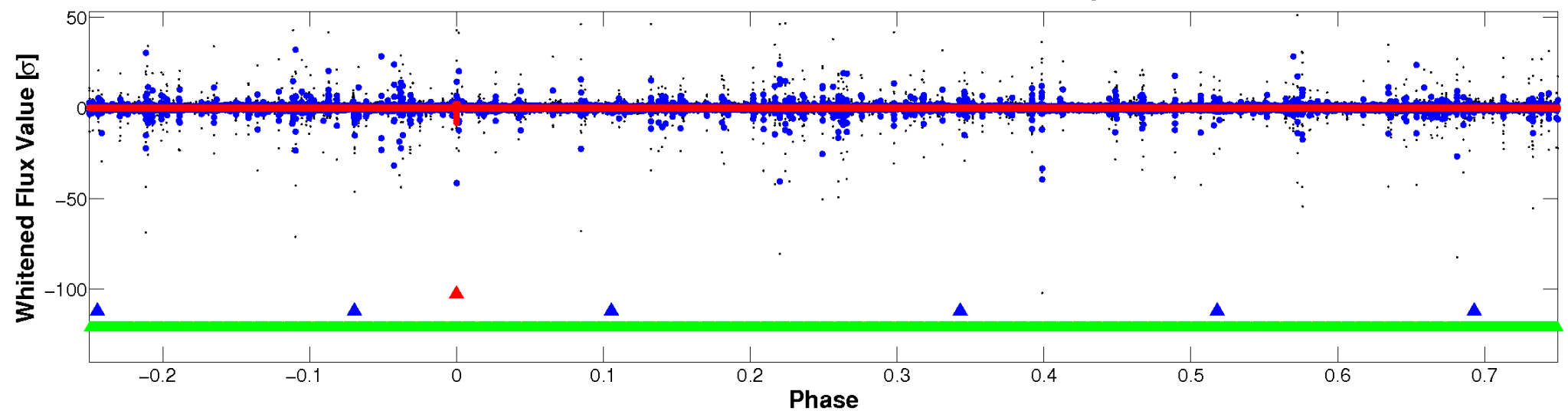


Non-Whitened Vs. Whitened Light Curve

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

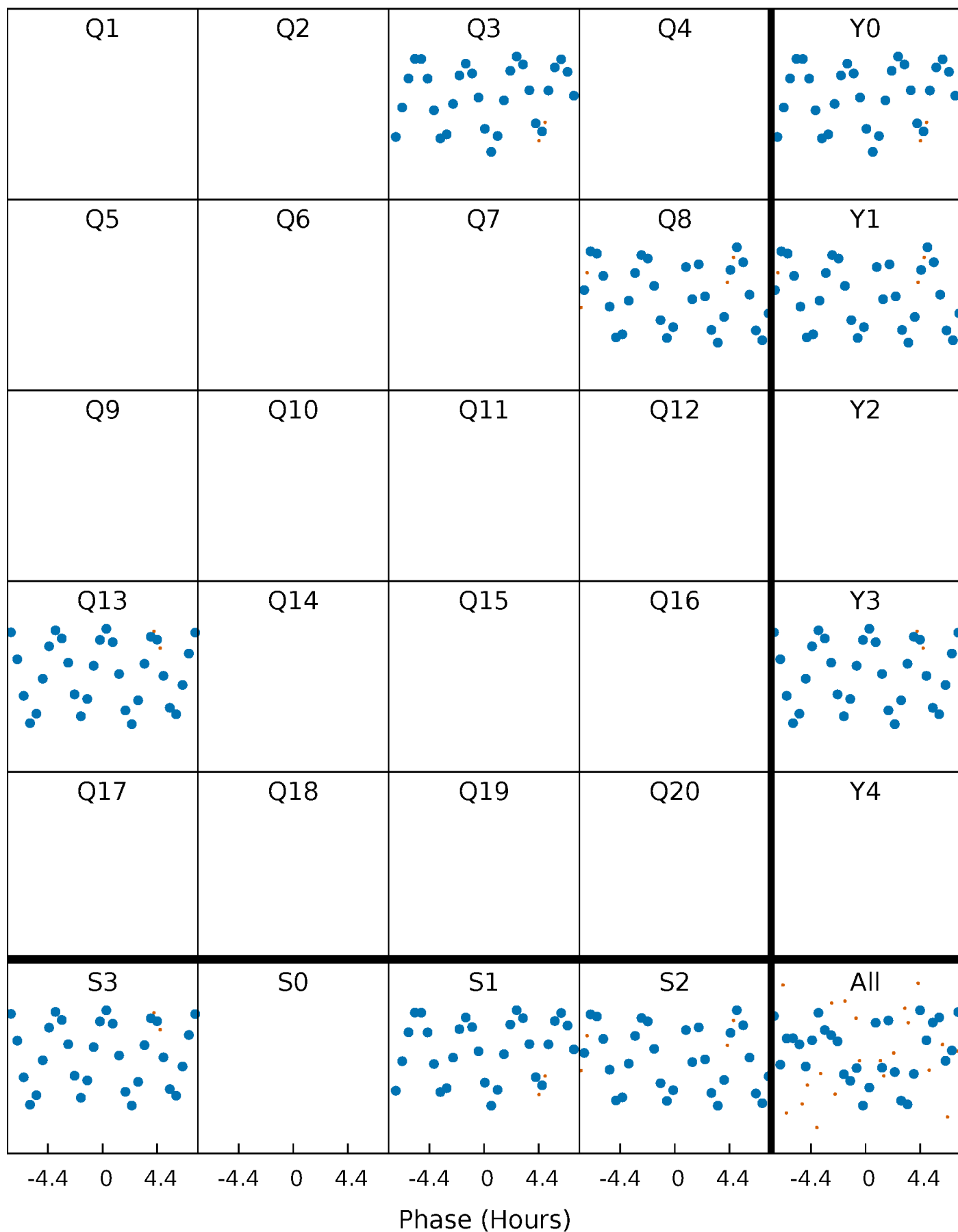


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



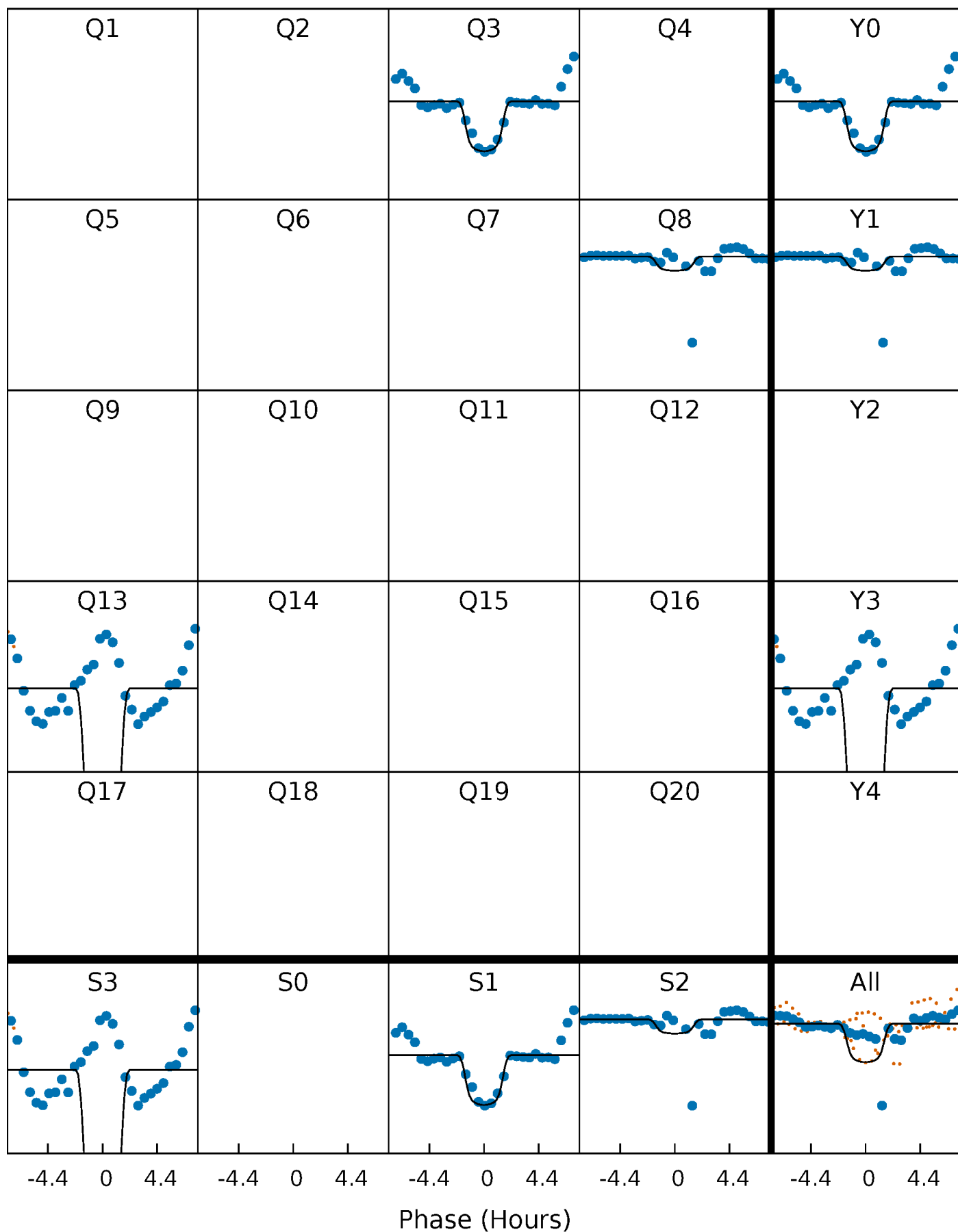
PDC Quarter-Phased Transit Curves

TCE 011013608-01 P=472.226020 Days $T_0=279.982511$ (BKJD)



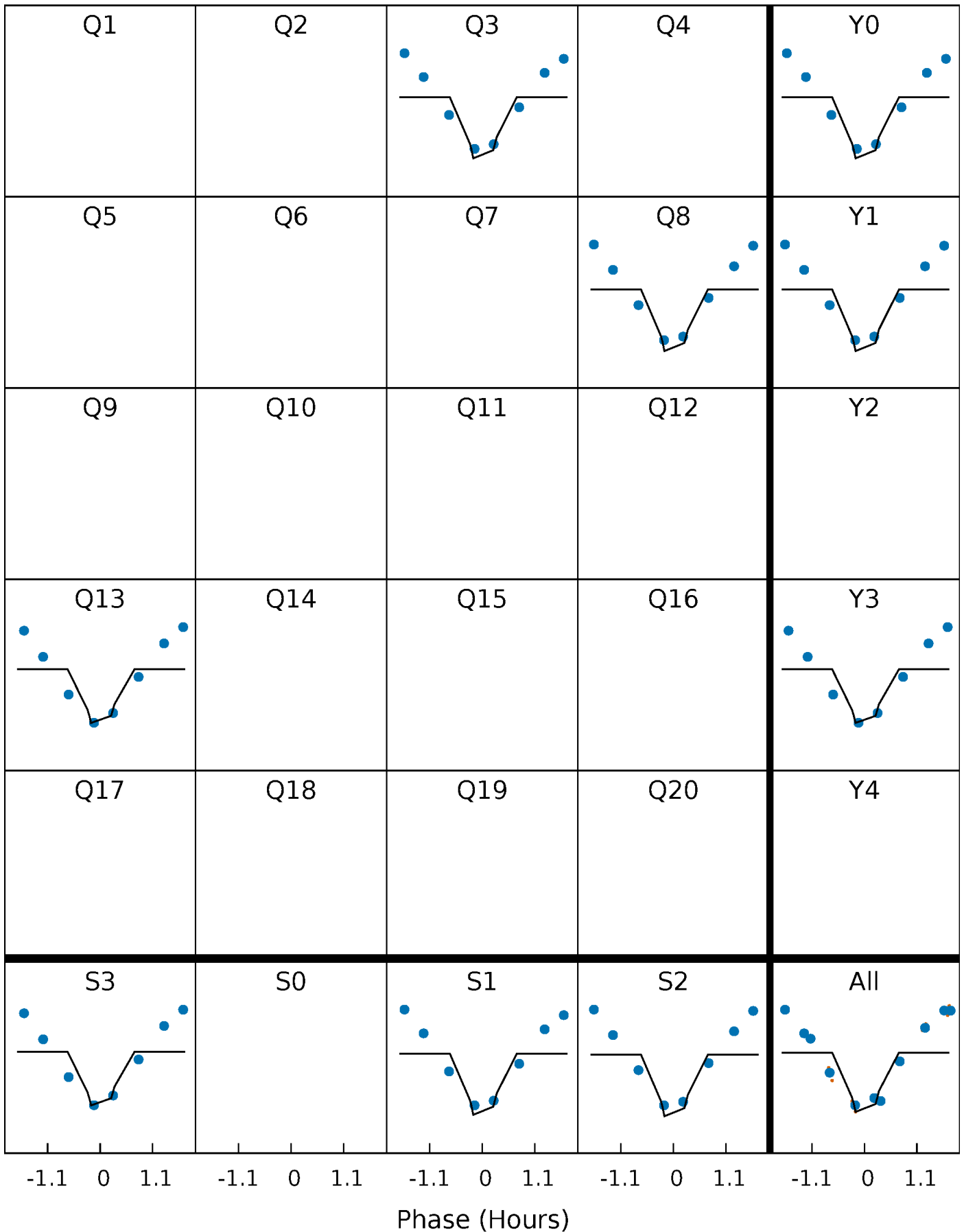
DV Quarter-Phased Transit Curves

TCE 011013608-01 P=472.226020 Days $T_0=279.982511$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

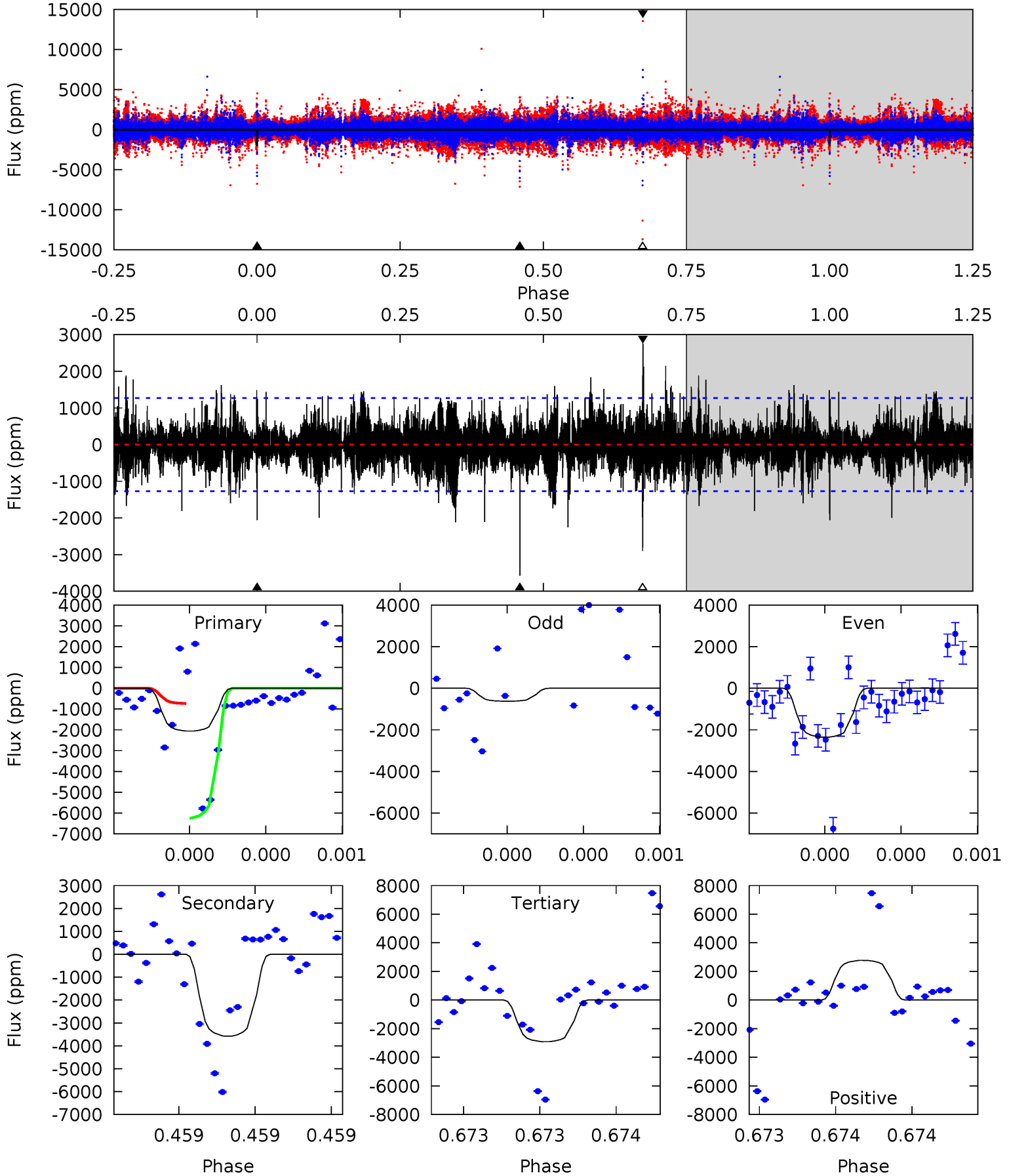
TCE 011013608-01 P=472.178704 Days $T_0=279.849014$ (BKJD)



DV Model-Shift Uniqueness Test

011013608-01, P = 472.226020 Days, E = 279.982511 Days

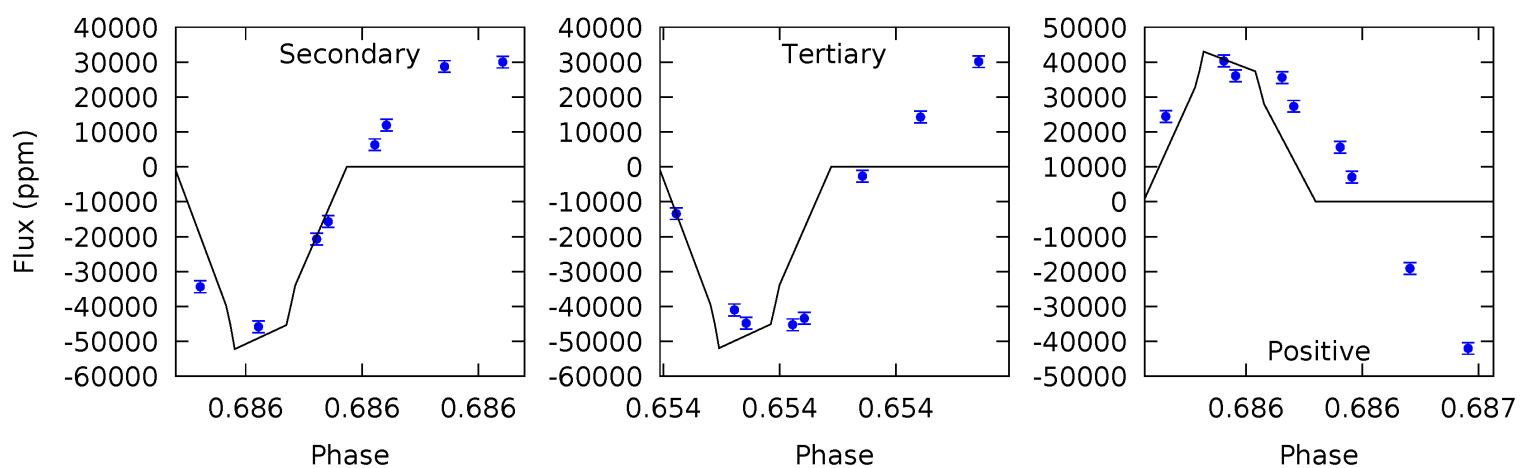
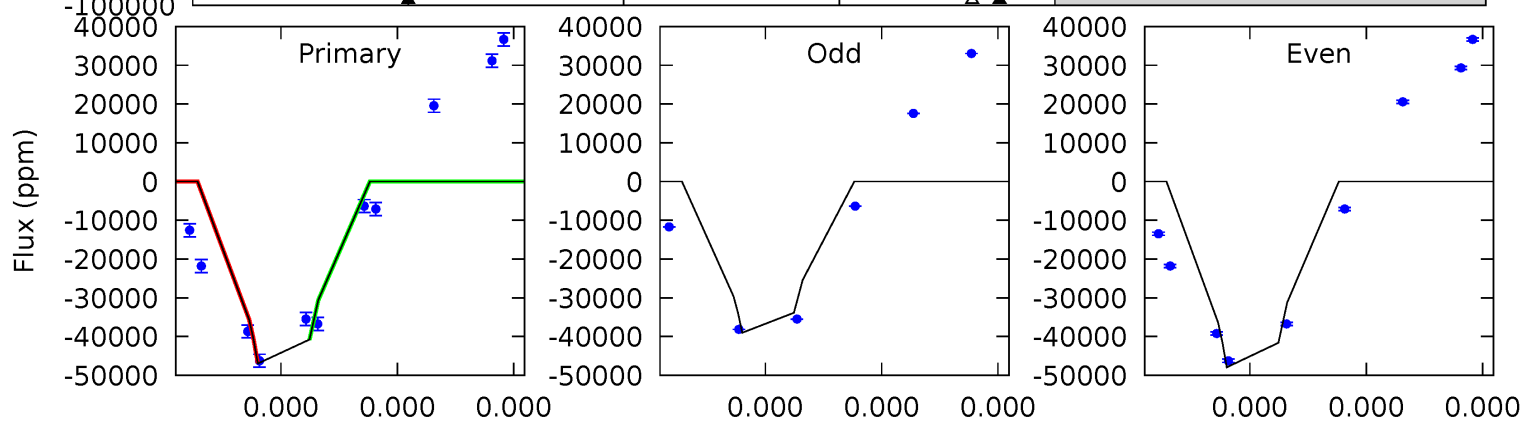
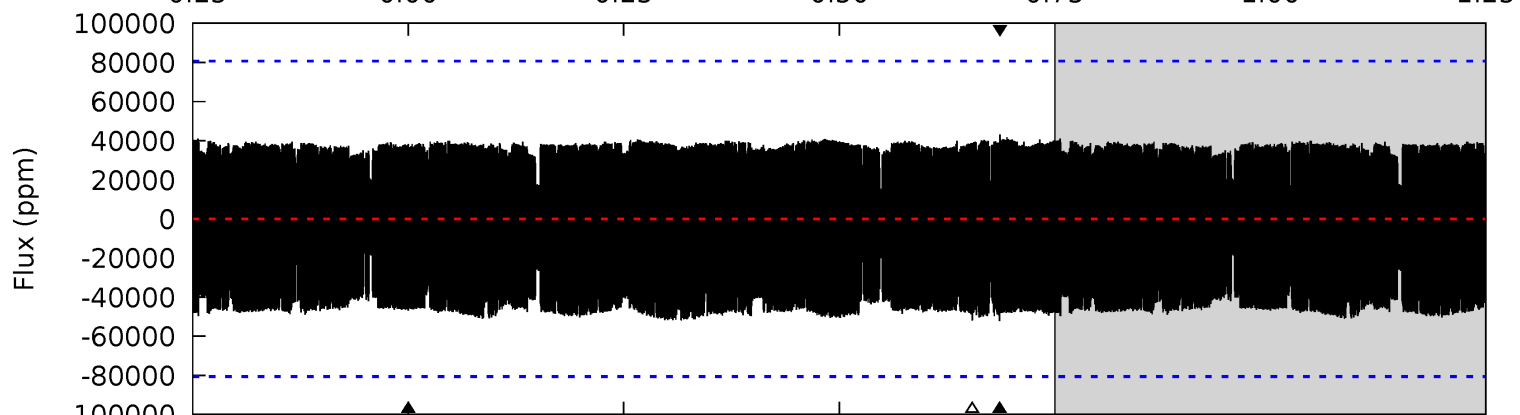
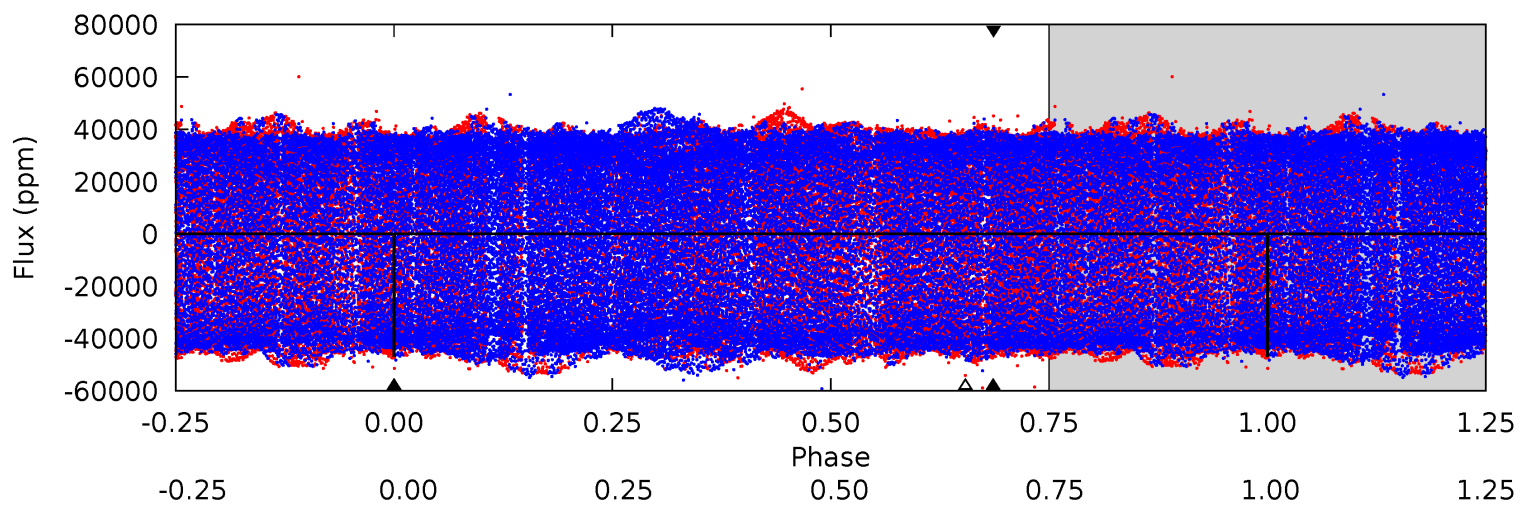
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.12	15.9	12.9	12.3	5.64	3.58	1.91	-3.76	-3.17	2.97	3.56	2.72	0.73	0.44	12.3



Alt Model-Shift Uniqueness Test

011013608-01, P = 472.178704 Days, E = 279.849014 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.42	3.81	3.79	3.14	5.88	3.93	2.01	-0.36	0.29	0.02	0.67	0.28	1.02	0.45	0.19



Stellar Parameters For KIC 011013608

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6453^{+146}_{-178}	$4.188^{+0.214}_{-0.175}$	$-0.460^{+0.300}_{-0.300}$	$1.353^{+0.380}_{-0.346}$	$1.029^{+0.162}_{-0.108}$	$0.586^{+0.683}_{-0.278}$
	+2%/-3%	+5%/-4%	+65%/-65%	+28%/-26%	+16%/-10%	+117%/-47%
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 011013608-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-3573 ± 225	$12.57^{+2.01}_{-1.95}$	422^{+31}_{-34}	5442^{+168}_{-169}	18221^{+6638}_{-4681}
Alt.	-52237 ± 13720	$40.72^{+6.23}_{-5.74}$	420^{+32}_{-30}	5966^{+388}_{-465}	26290^{+12080}_{-8719}

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 $A_{obs} \gg 1.0$

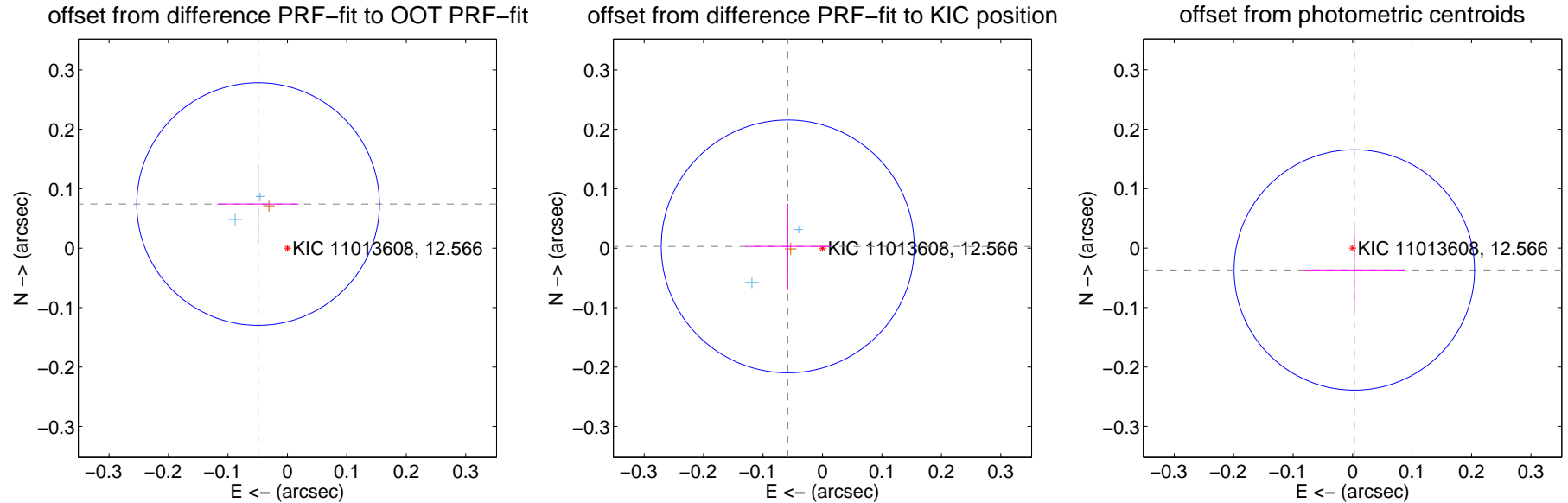
DV Centroid Data

Supplemental centroid analysis for 011013608-01. Kepler magnitude: 12.57. Transit SNR 22.85

There are 2 quarters with good PRF difference image offsets

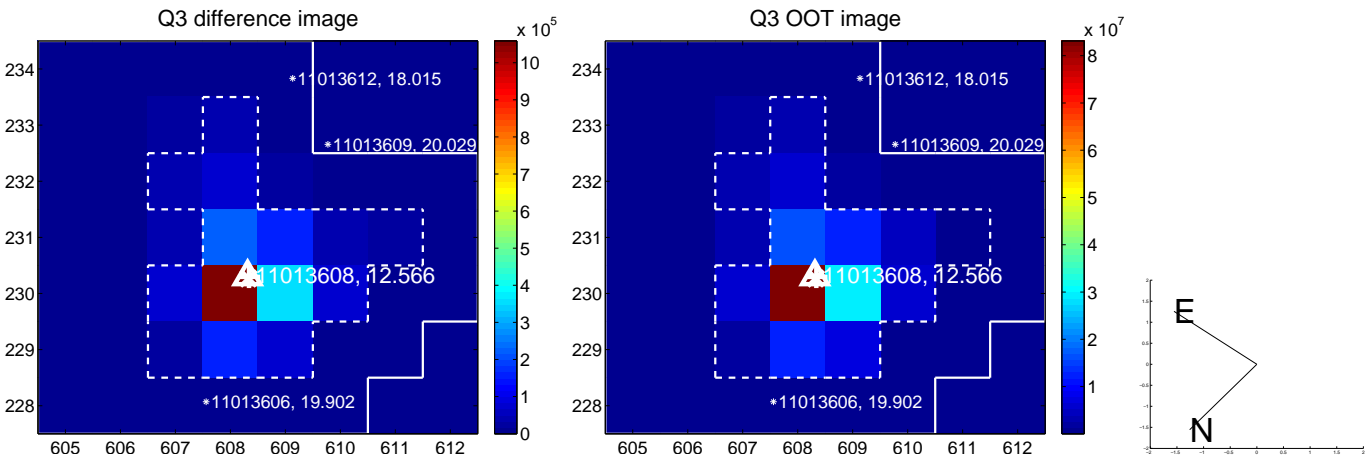
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.089 ± 0.068	1.31	0.049 ± 0.069	0.074 ± 0.068
PRF-fit source offset from KIC position	0.059 ± 0.071	0.83	0.058 ± 0.071	0.003 ± 0.072
photometric centroid source offset	0.04 ± 0.07	0.55	-0.00 ± 0.08	-0.04 ± 0.07

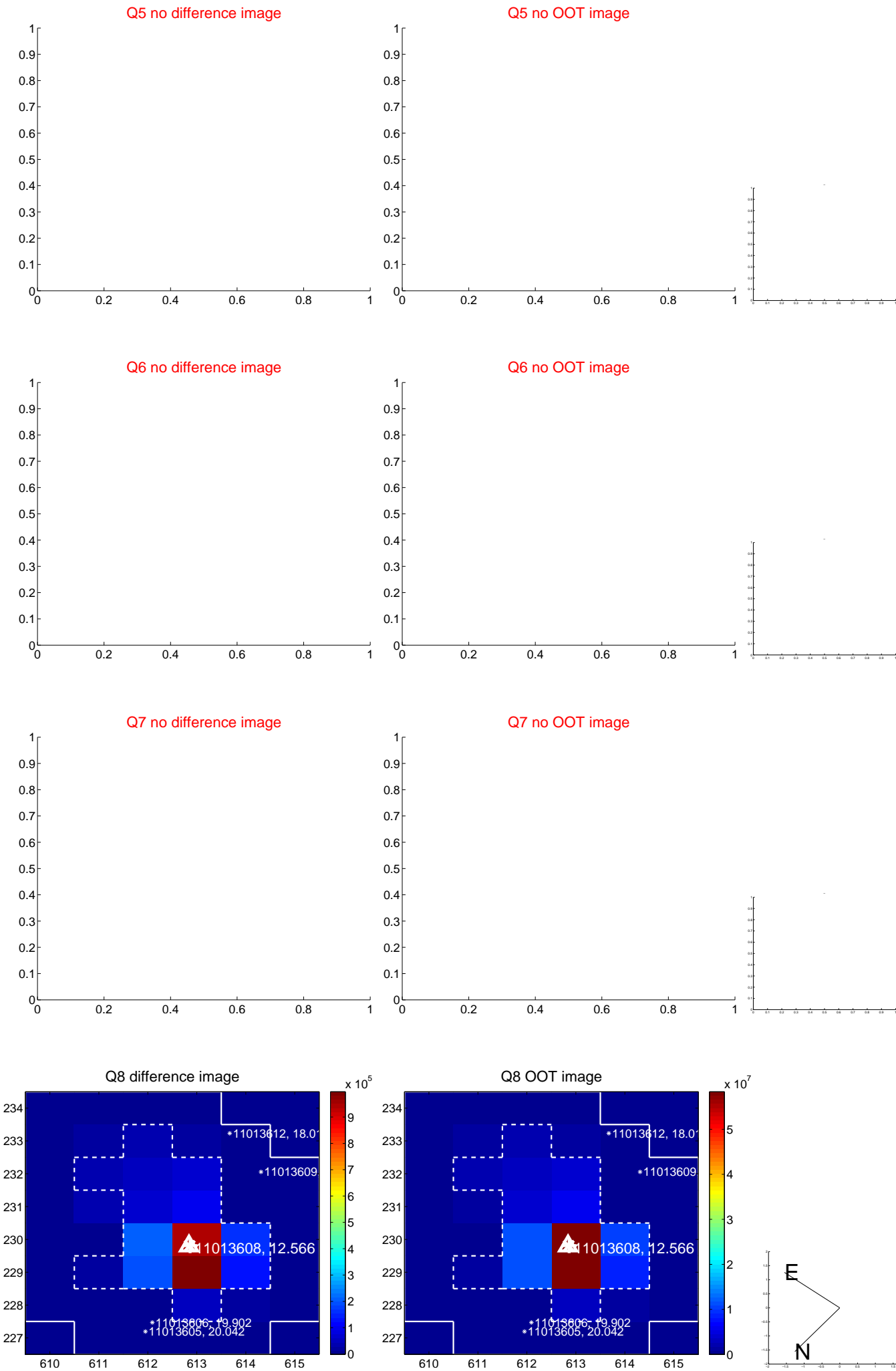


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

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



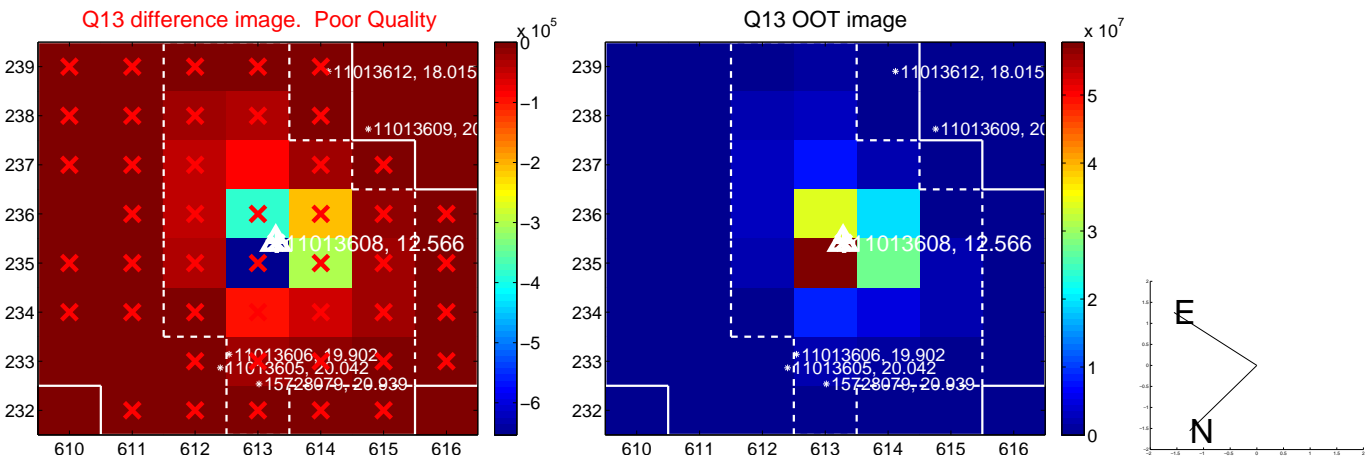
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



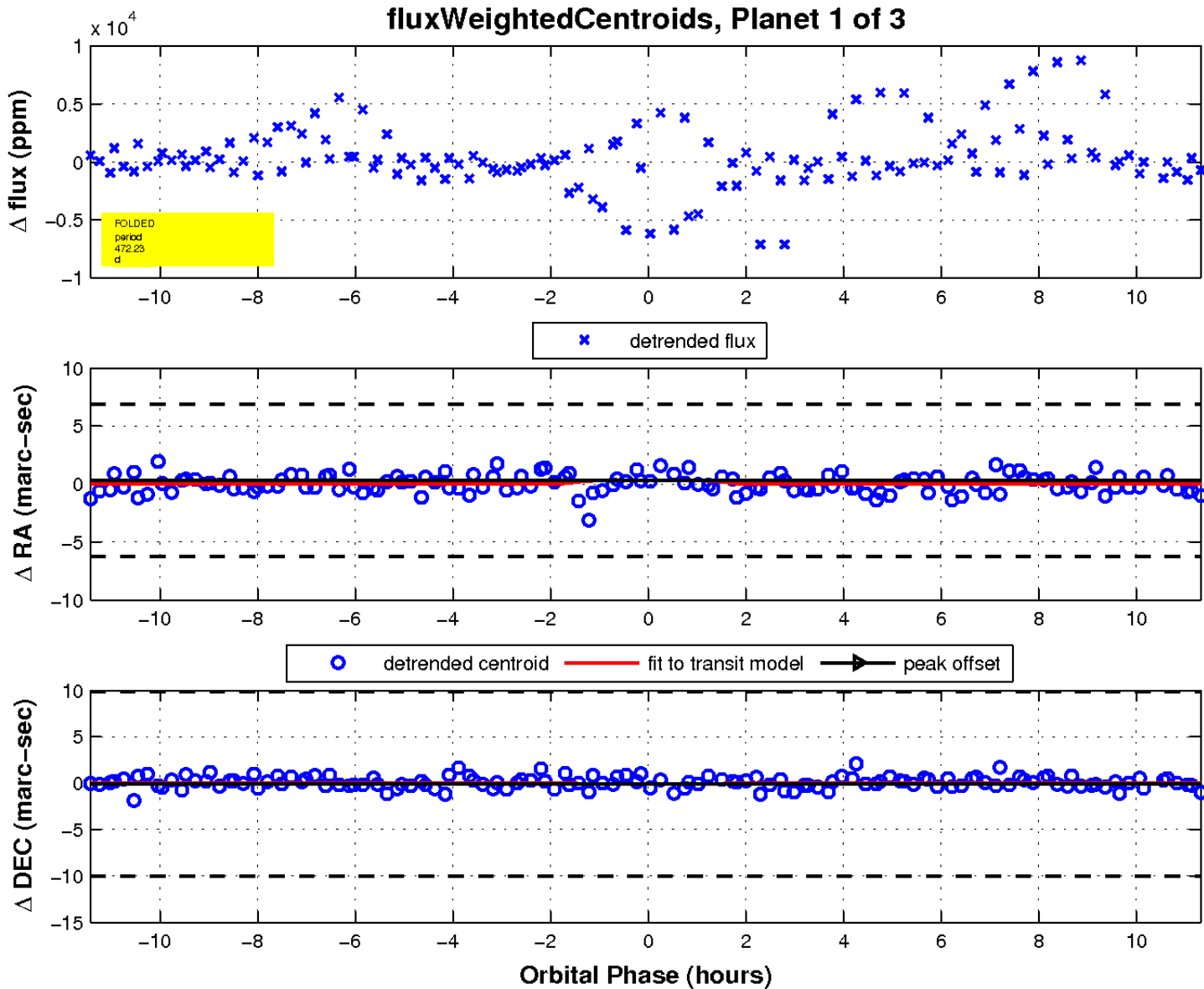
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



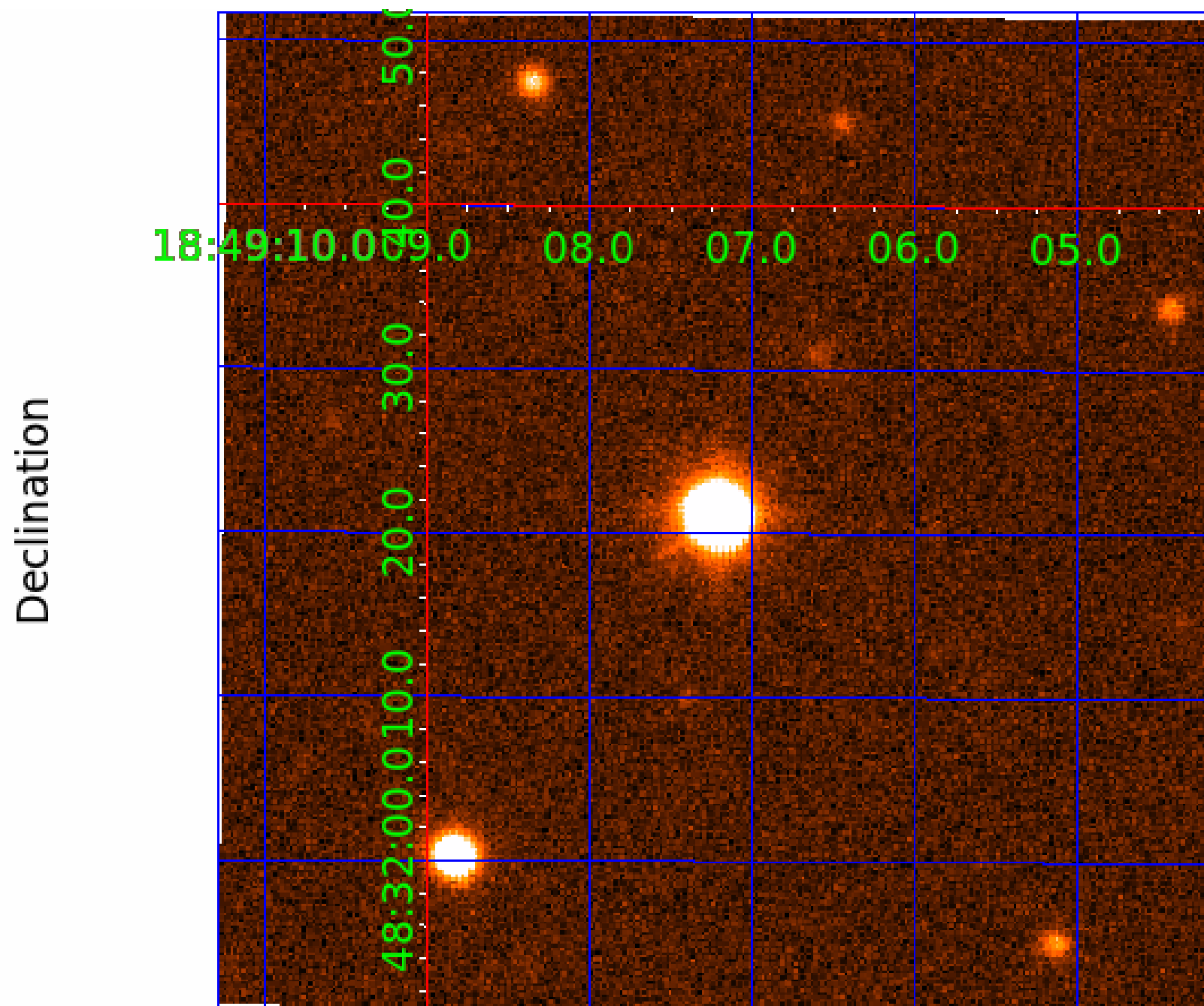
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

Q17 no difference image

Q17 no OOT image



UKIRT Image



KIC 011013608

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})
011013608-01	OBS	No	472.226020	279.982511	6988.5	3.835	31.9	22.9	1.35	6453	12.52	1.98
011013608-02	OBS	No	277.428166	164.538285	741.4	3.000	18.9	-1.0	1.35	6453	3.71	4.02
011013608-03	OBS	No	0.635325	131.729744	1199.6	1.500	8.8	-1.0	1.35	6453	4.73	13329.44

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011013608-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011013608-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
011013608-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_NOFITS

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

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

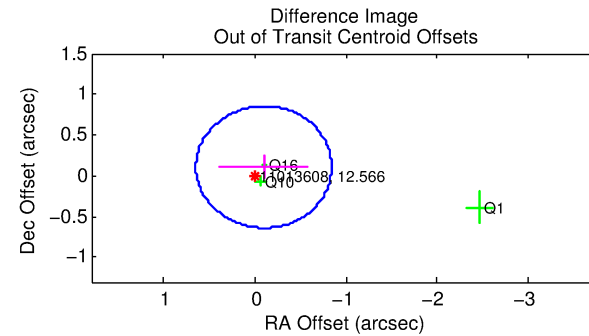
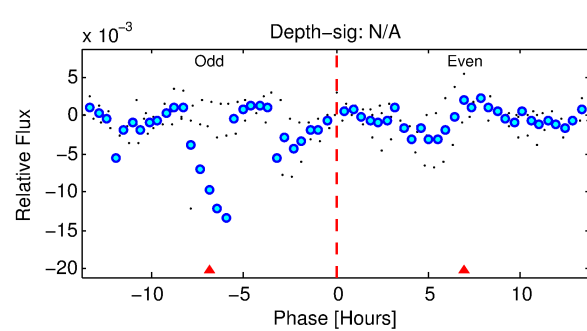
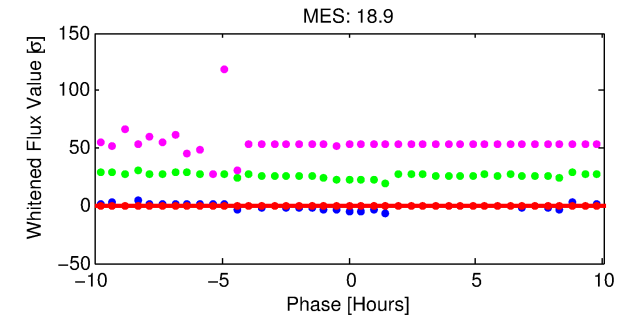
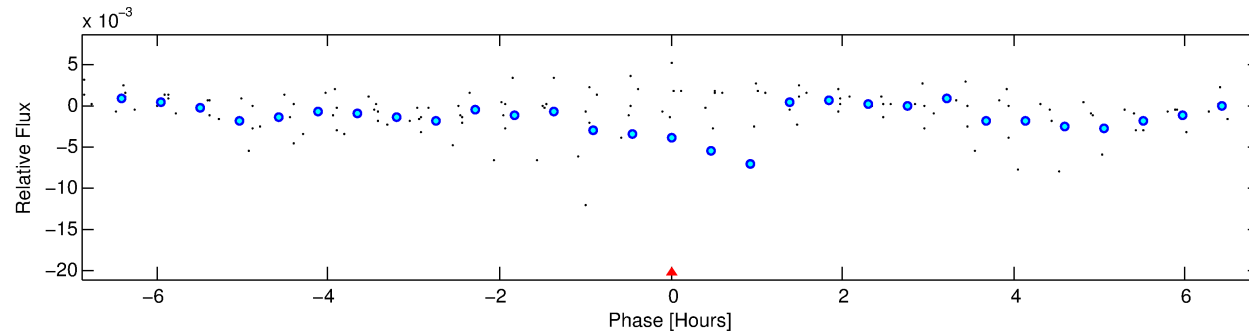
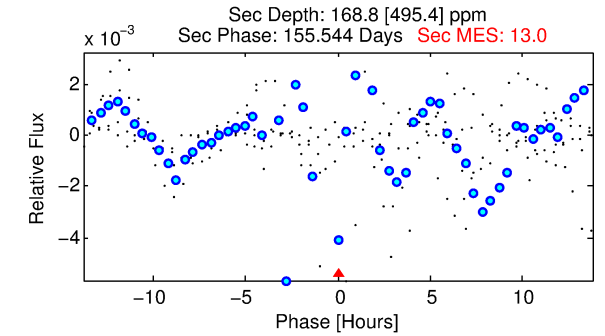
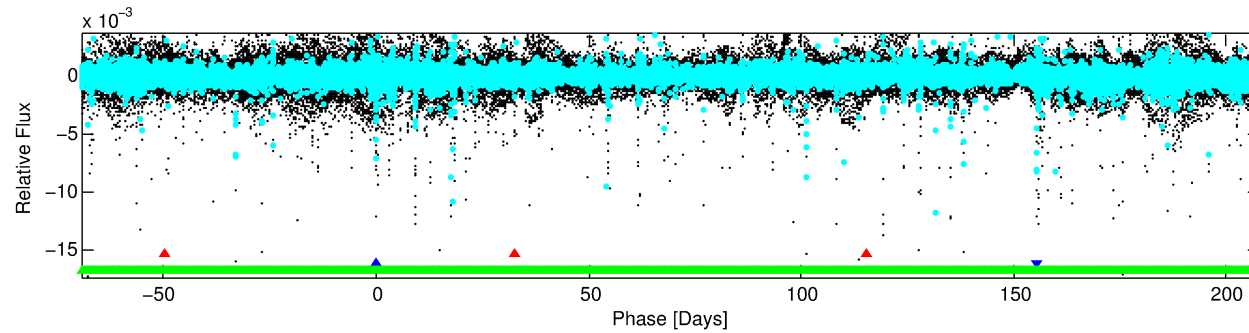
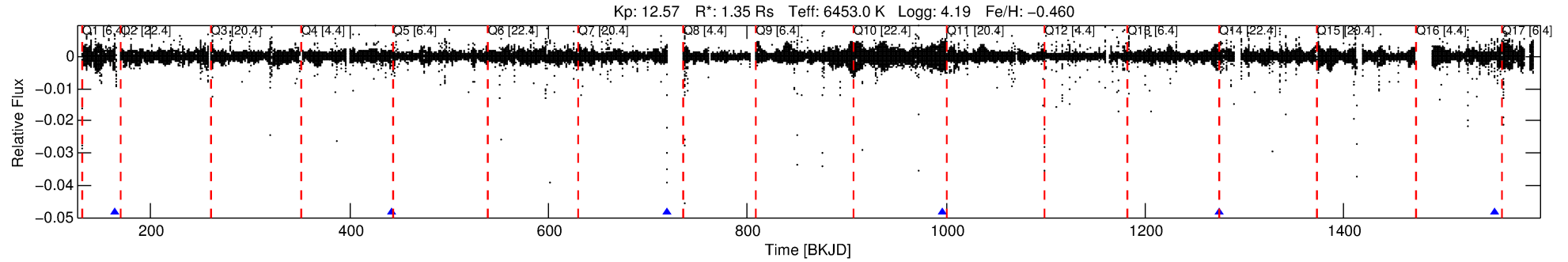
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011013608-02

No Significant Match Found

DV One-Page Summary

KIC: 11013608 Candidate: 2 of 3 Period: 277.428 d



TPS TCE Results:

Period = 277.42817 d
Epoch = 164.5383 BKJD

DV fit results are unavailable

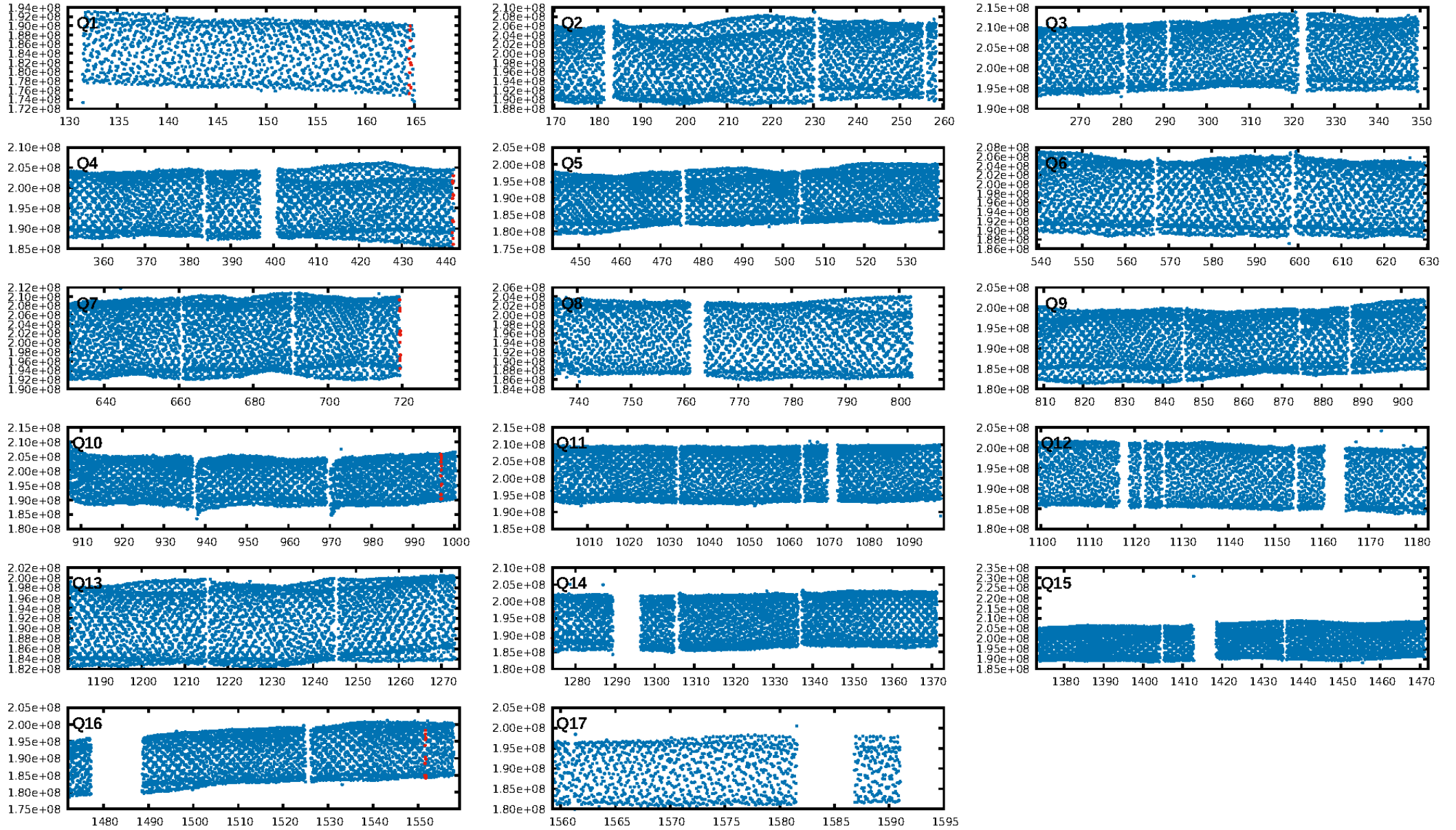
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [1980.57σ]
LongPeriod-sig: 100.0% [960.20σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 28.71
Centroid-sig: 5.1%
Centroid-so: 0.045 arcsec [1.55σ]
OotOffset-rm: 0.146 arcsec [0.59σ]
KicOffset-rm: 0.076 arcsec [0.27σ]
OotOffset-st: 1/0/1/1 [3]
KicOffset-st: 1/0/1/1 [3]
DiffImageQuality-fgm: 0.33 [1/3]
DiffImageOverlap-fno: 0.00 [0/3]

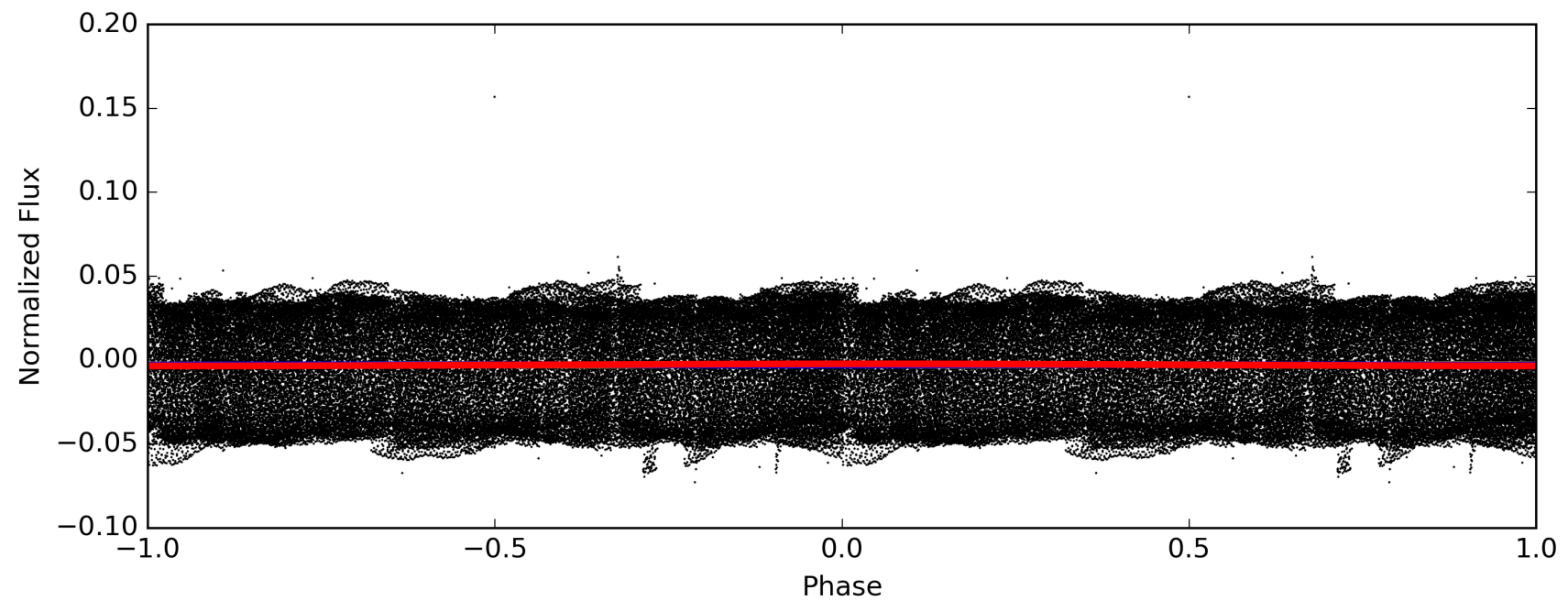
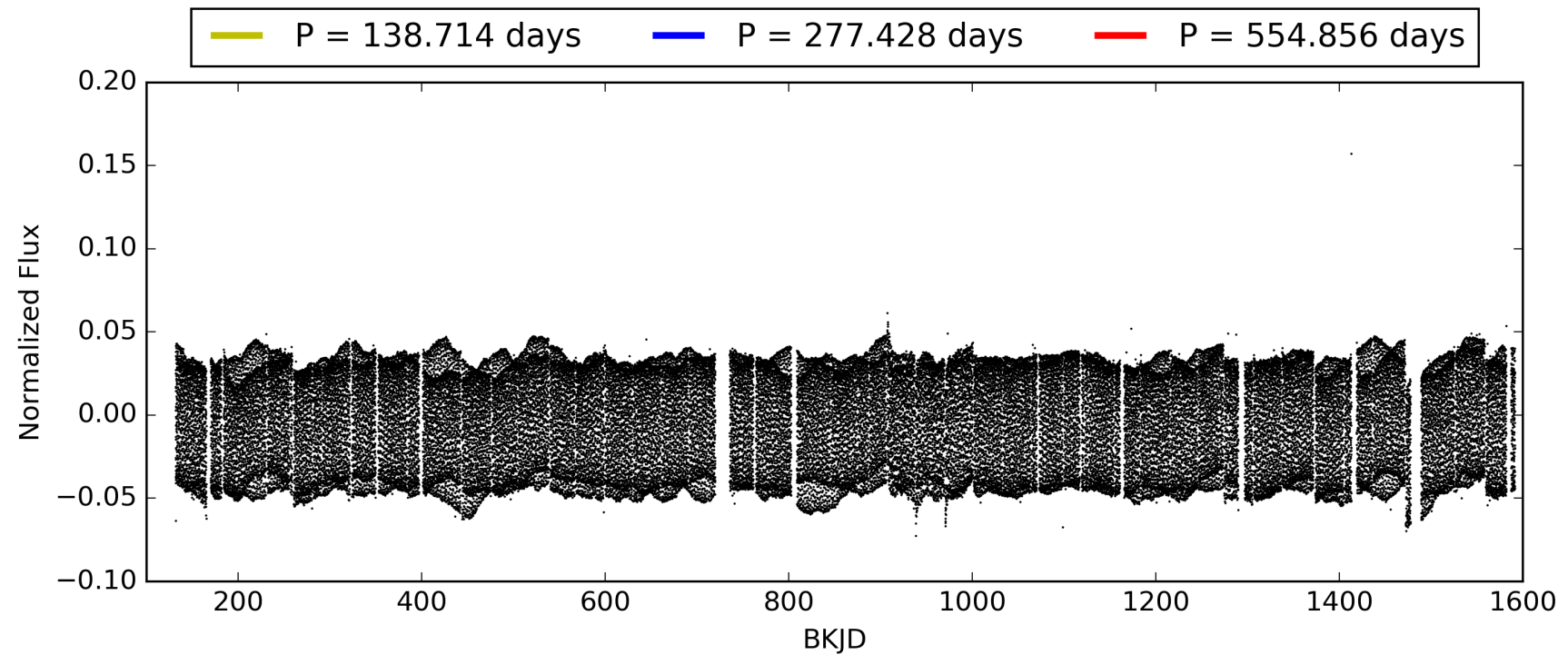
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 011013608-02, PDC Light Curves

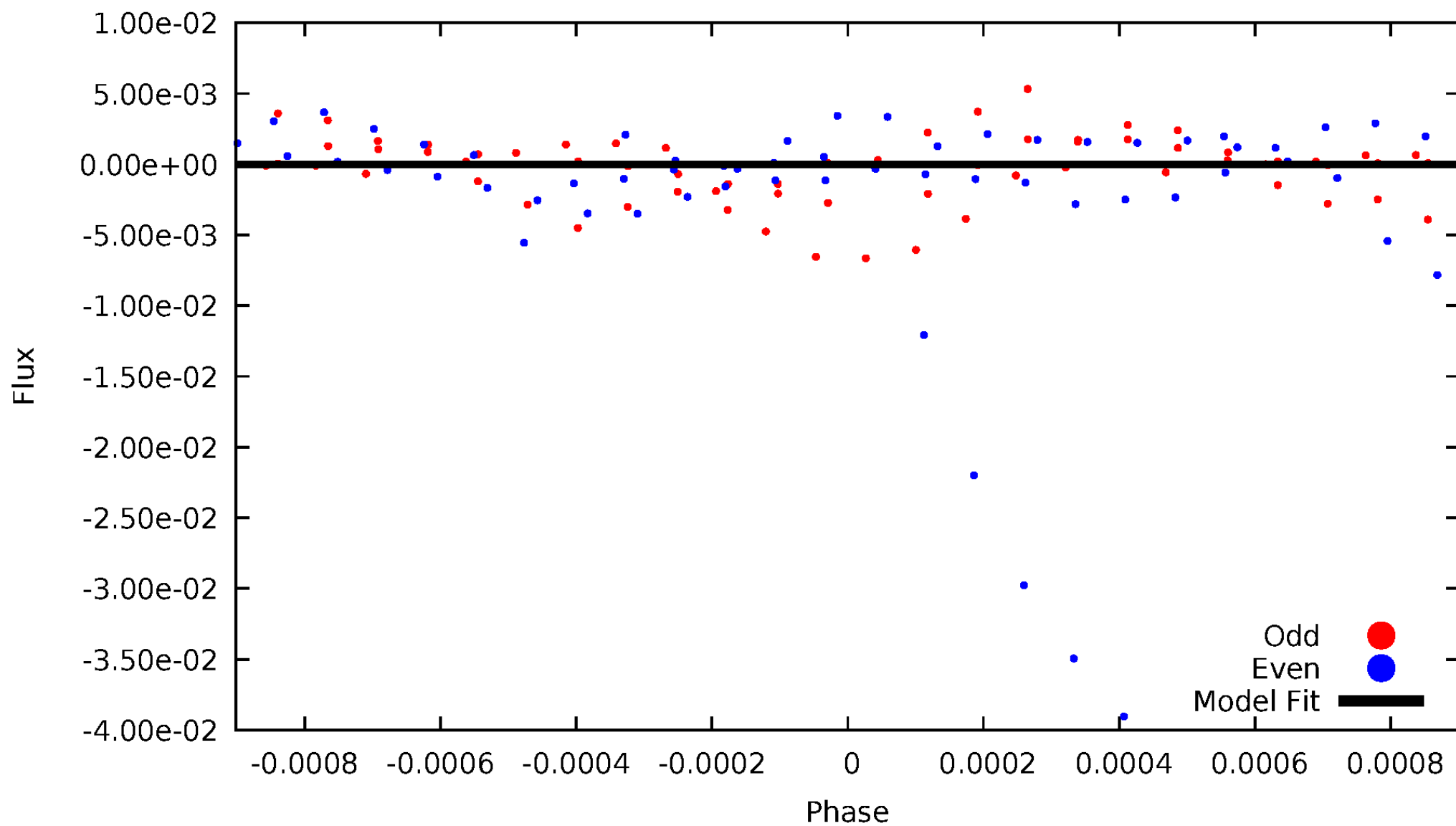


TCE 011013608-02



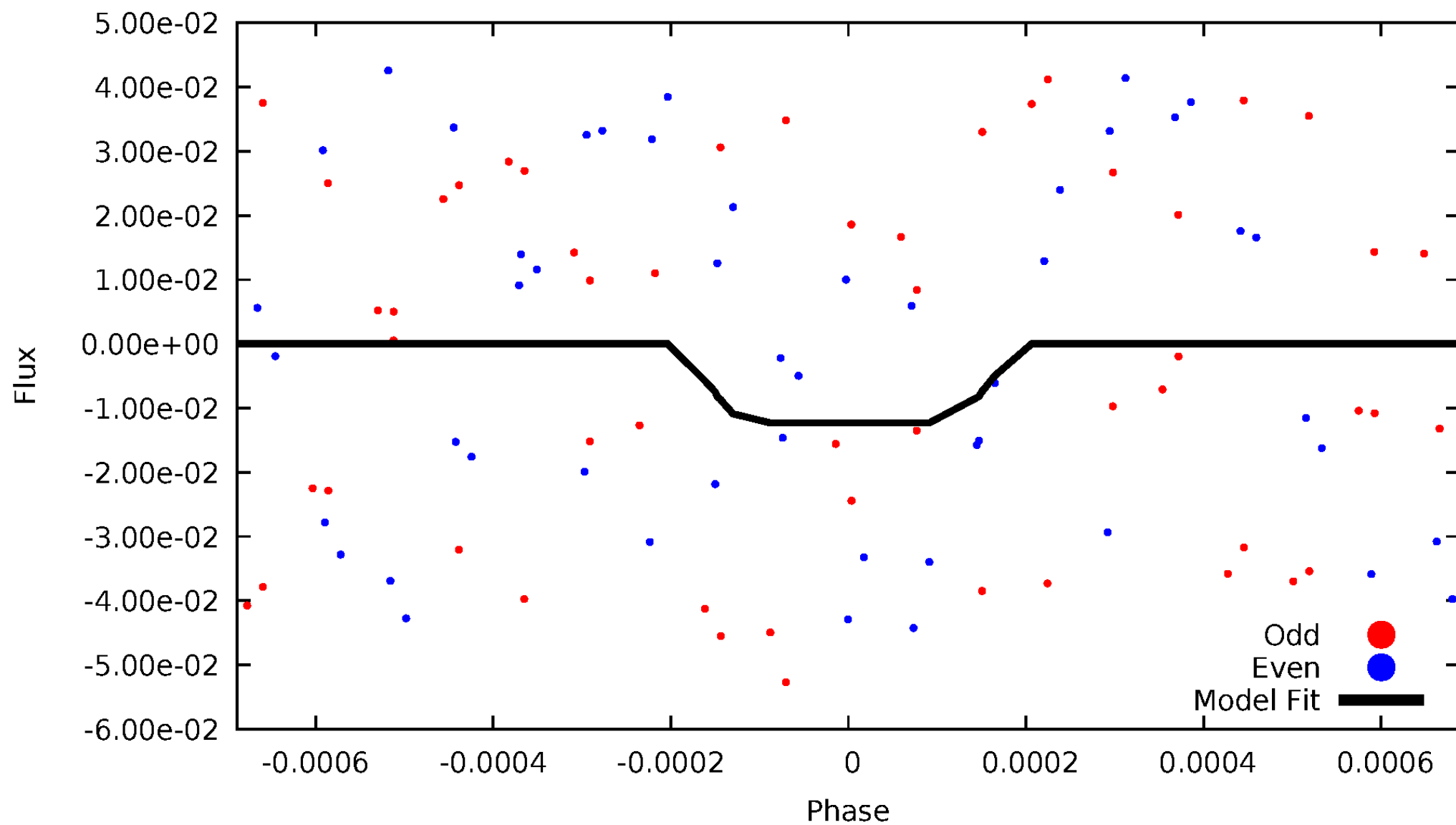
DV Odd/Even

TCE 011013608-02



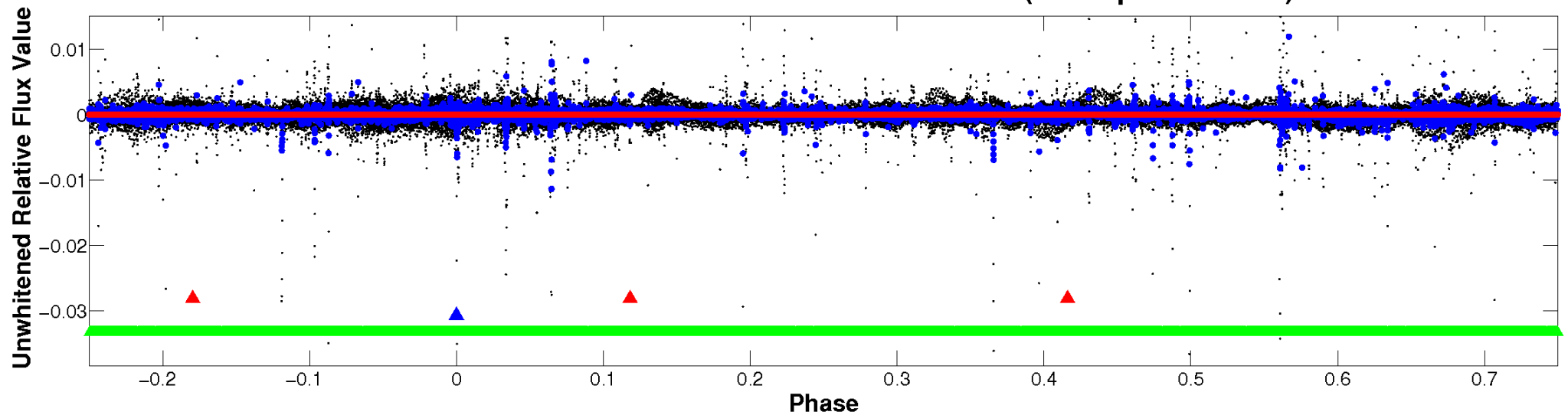
ALT Odd/Even

TCE 011013608-02



Non-Whitened Vs. Whitened Light Curve

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

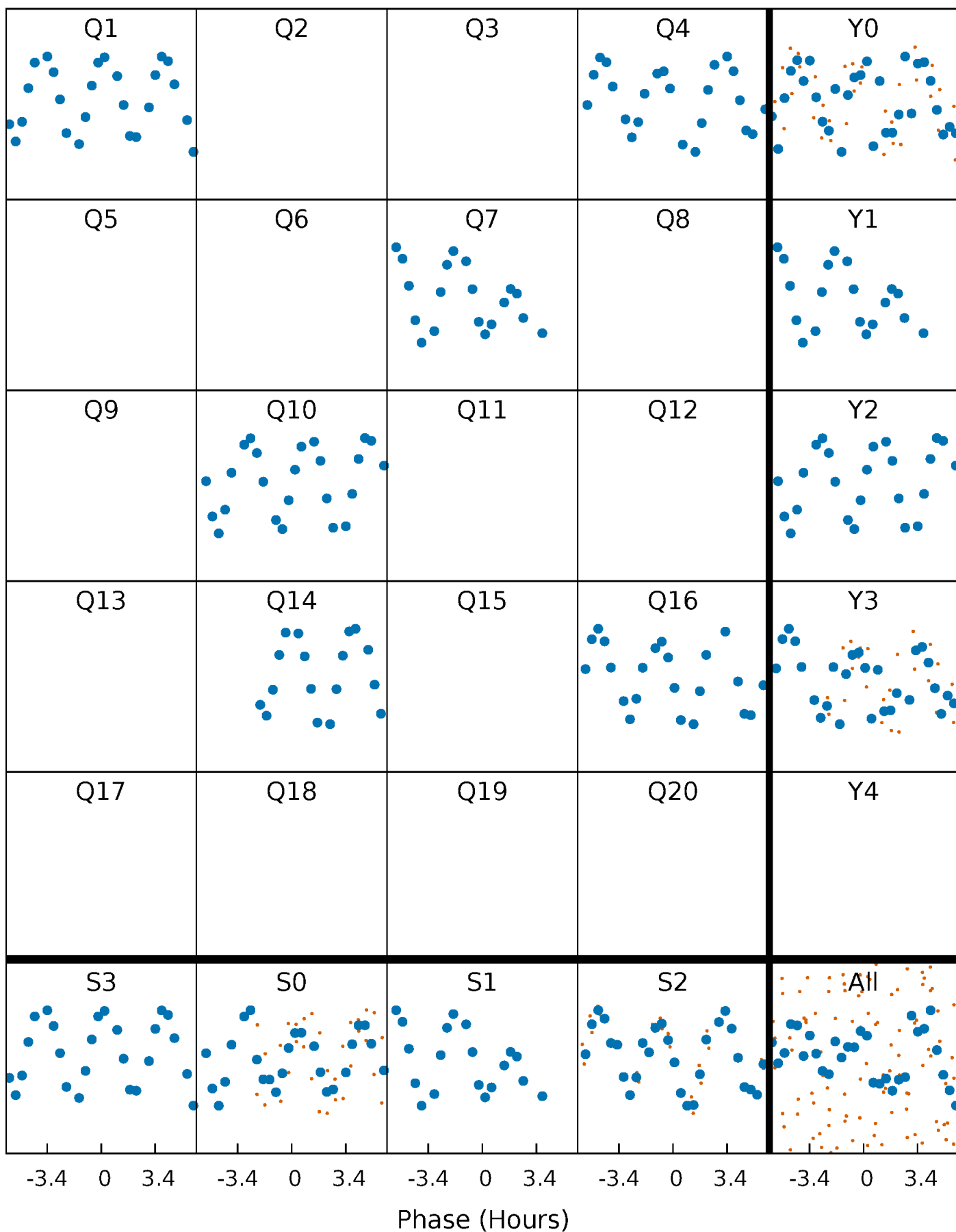


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



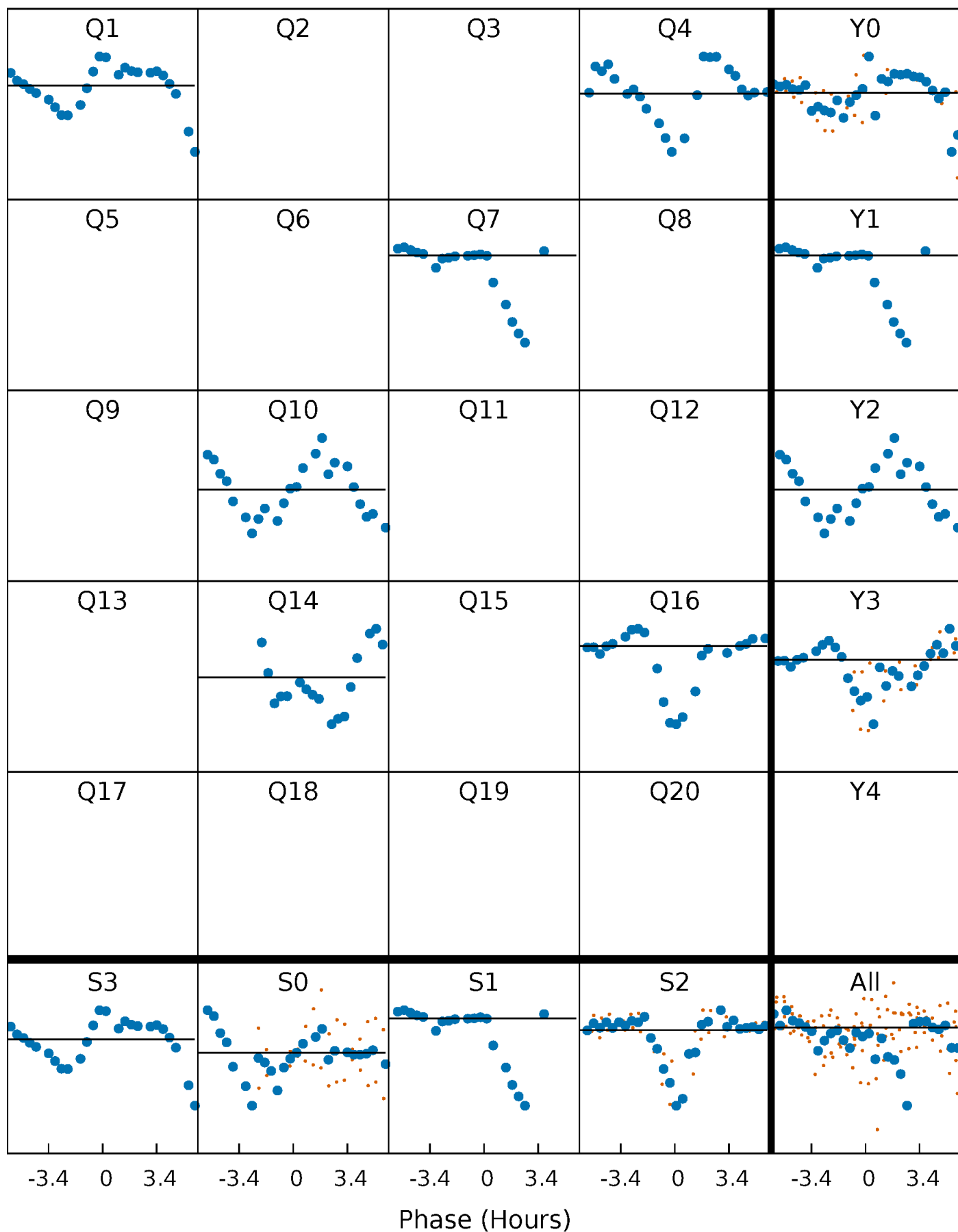
PDC Quarter-Phased Transit Curves

TCE 011013608-02 P=277.428166 Days $T_0=164.538285$ (BKJD)



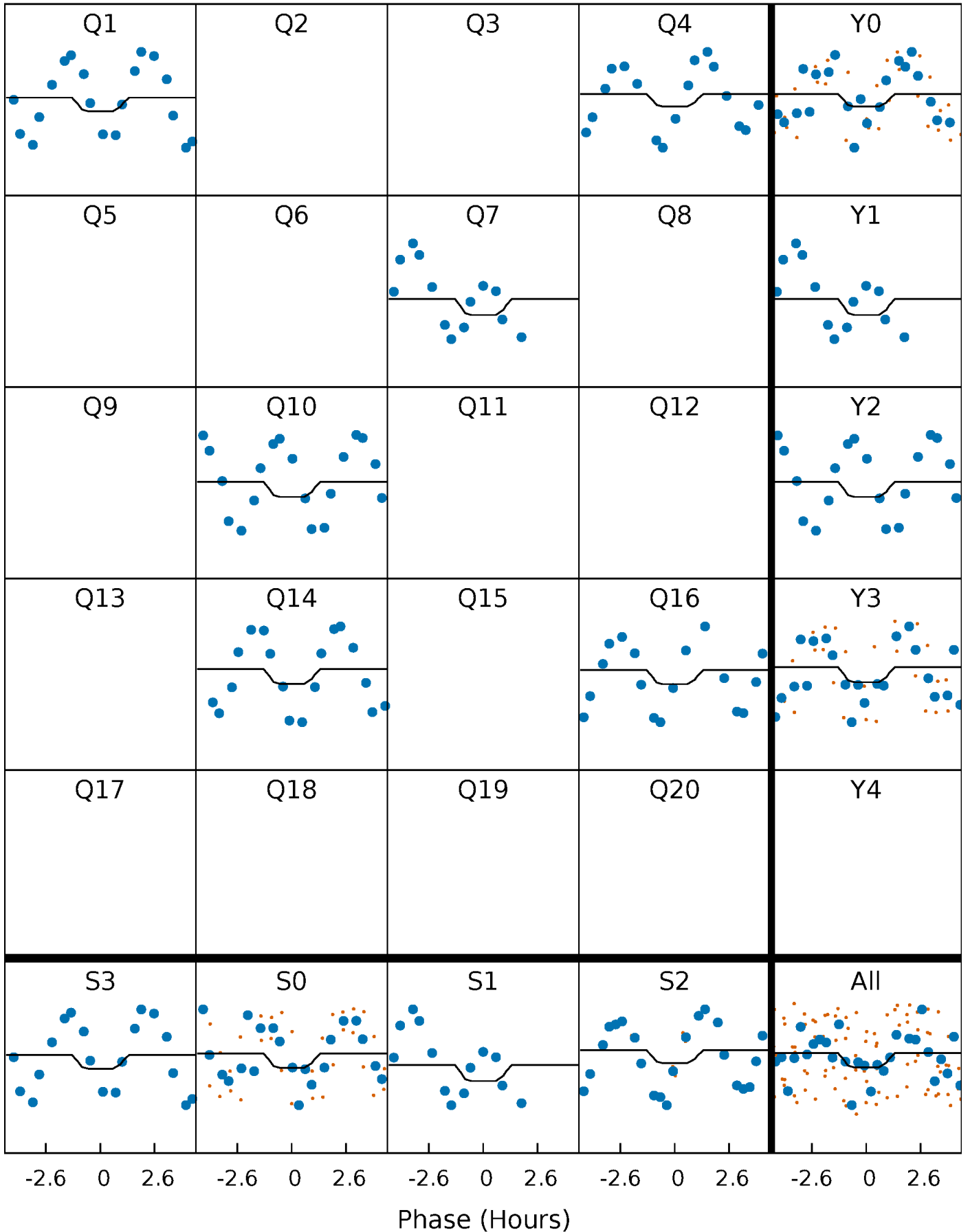
DV Quarter-Phased Transit Curves

TCE 011013608-02 P=277.428166 Days $T_0=164.538285$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

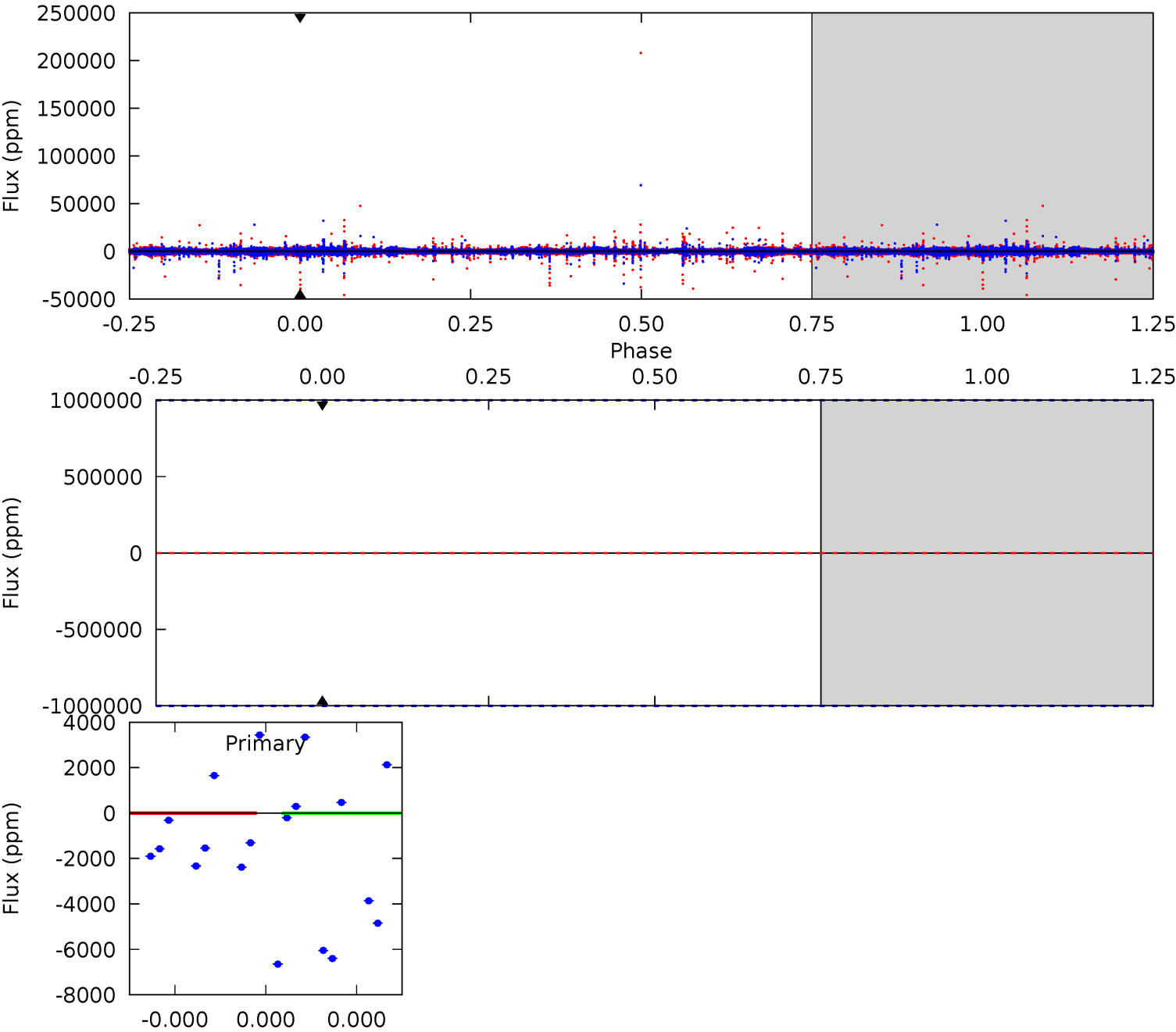
TCE 011013608-02 P=277.428166 Days $T_0=164.610978$ (BKJD)



DV Model-Shift Uniqueness Test

011013608-02, P = 277.428166 Days, E = 164.538285 Days

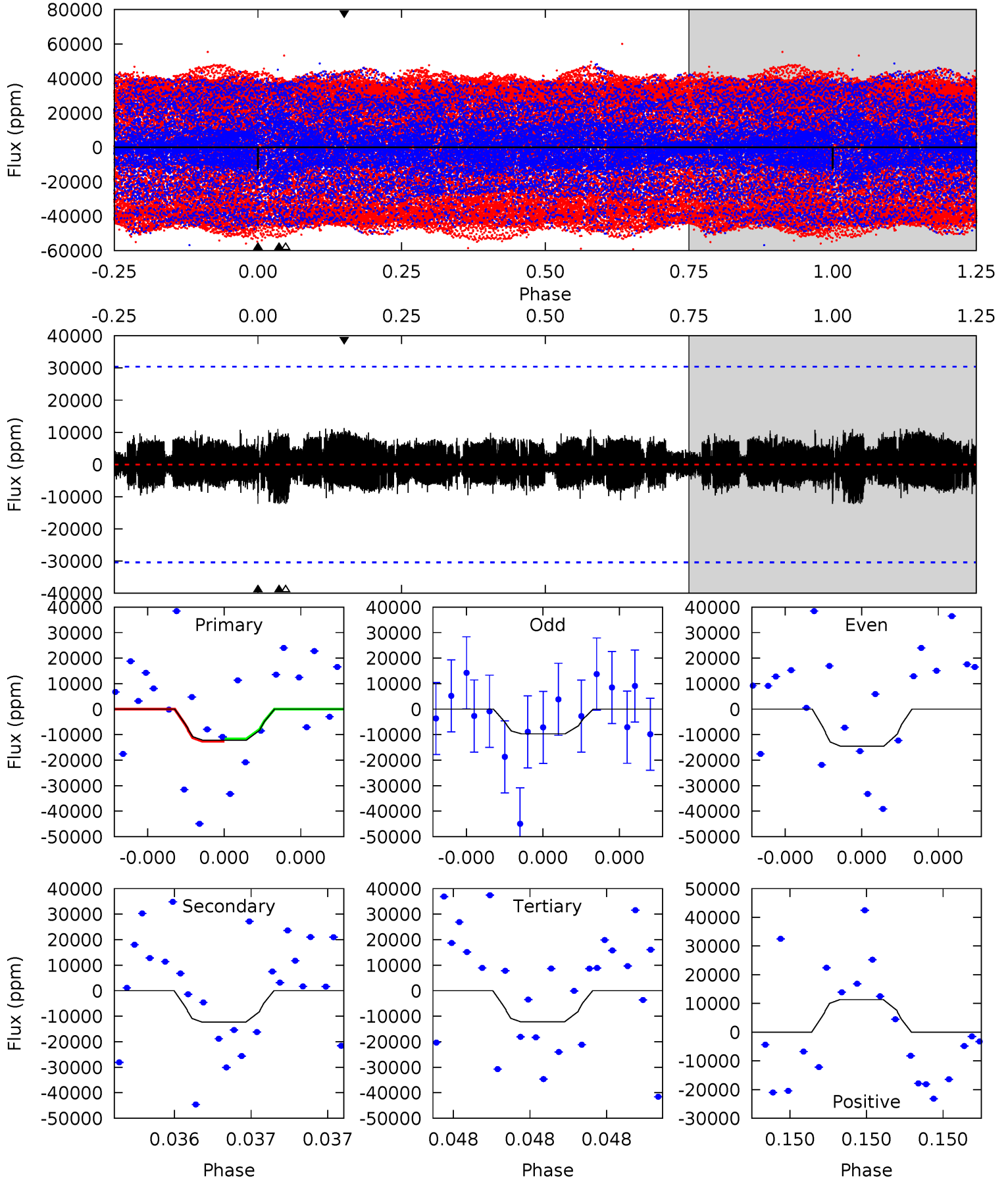
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011013608-02, P = 277.428166 Days, E = 164.610978 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.26	2.29	2.27	2.10	5.65	3.60	0.68	-0.00	0.16	0.02	0.18	0.45	0.73	0.48	0.08



Stellar Parameters For KIC 011013608

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6453^{+146}_{-178}	$4.188^{+0.214}_{-0.175}$	$-0.460^{+0.300}_{-0.300}$	$1.353^{+0.380}_{-0.346}$	$1.029^{+0.162}_{-0.108}$	$0.586^{+0.683}_{-0.278}$
	+2%/-3%	+5%/-4%	+65%/-65%	+28%/-26%	+16%/-10%	+117%/-47%
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 011013608-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$11.26^{+12.61}_{-7.54}$	500^{+38}_{-37}	-3919^{+31312}_{-18751}	$-1938.569^{+562663.420}_{-458270.052}$
Alt.	-12306 ± 5381	$18.88^{+13.24}_{-12.17}$	504^{+36}_{-39}	6022^{+5456}_{-1537}	13687^{+93394}_{-10110}

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 $A_{obs} \gg 1.0$

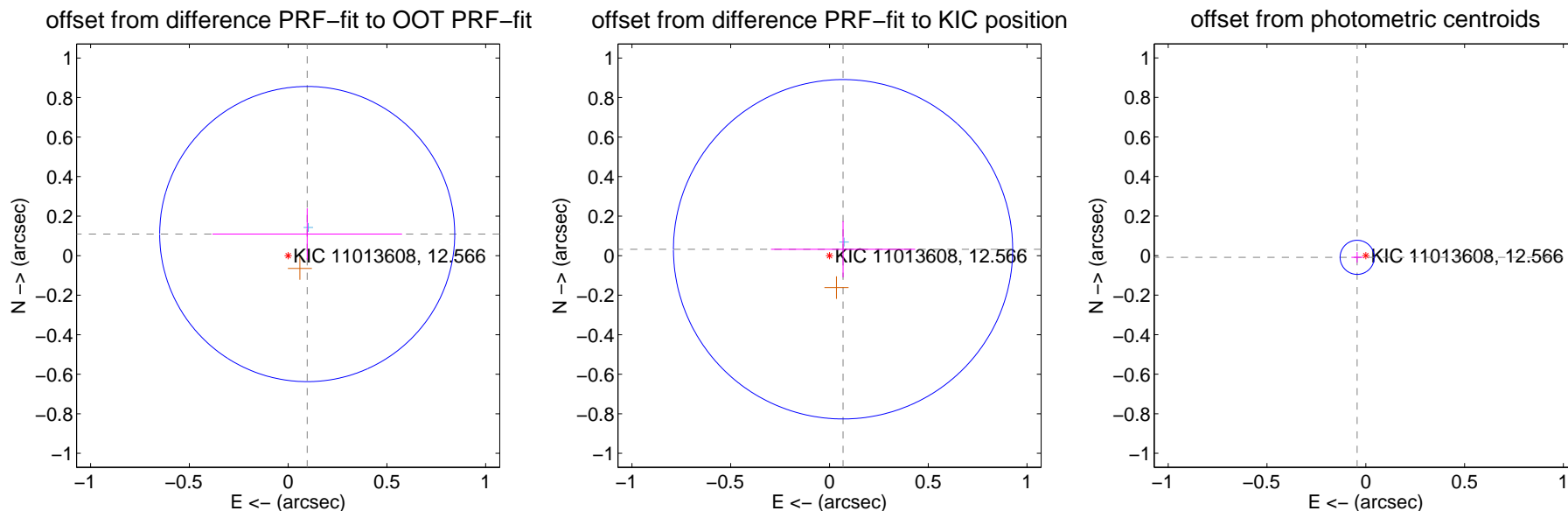
DV Centroid Data

Supplemental centroid analysis for 011013608-02. Kepler magnitude: 12.57. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

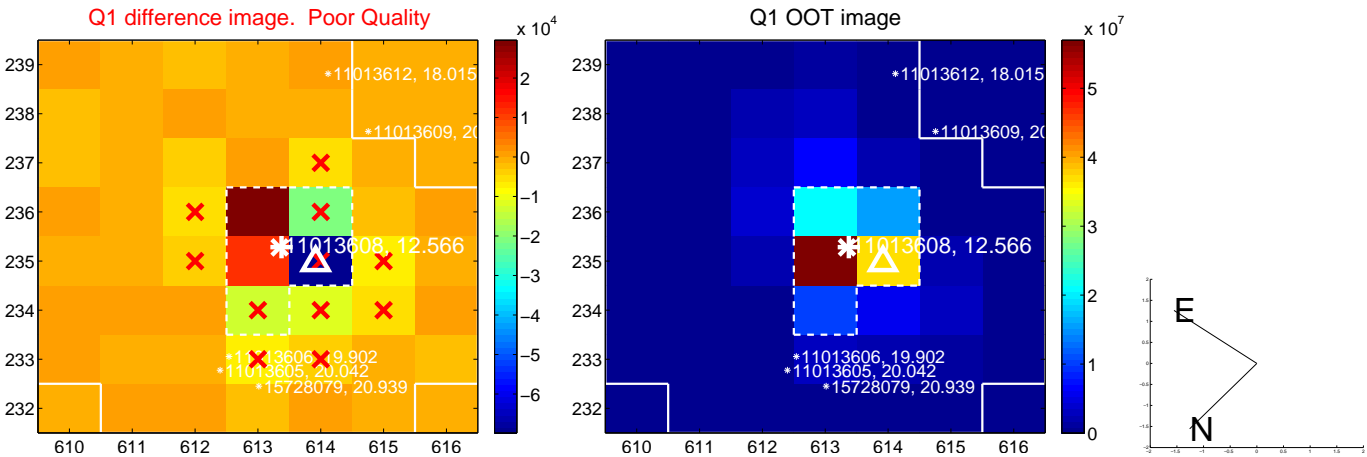
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.146 ± 0.249	0.59	-0.097 ± 0.480	0.109 ± 0.130
PRF-fit source offset from KIC position	0.076 ± 0.286	0.27	-0.069 ± 0.365	0.032 ± 0.142
photometric centroid source offset	0.04 ± 0.03	1.55	0.04 ± 0.03	-0.01 ± 0.03



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.

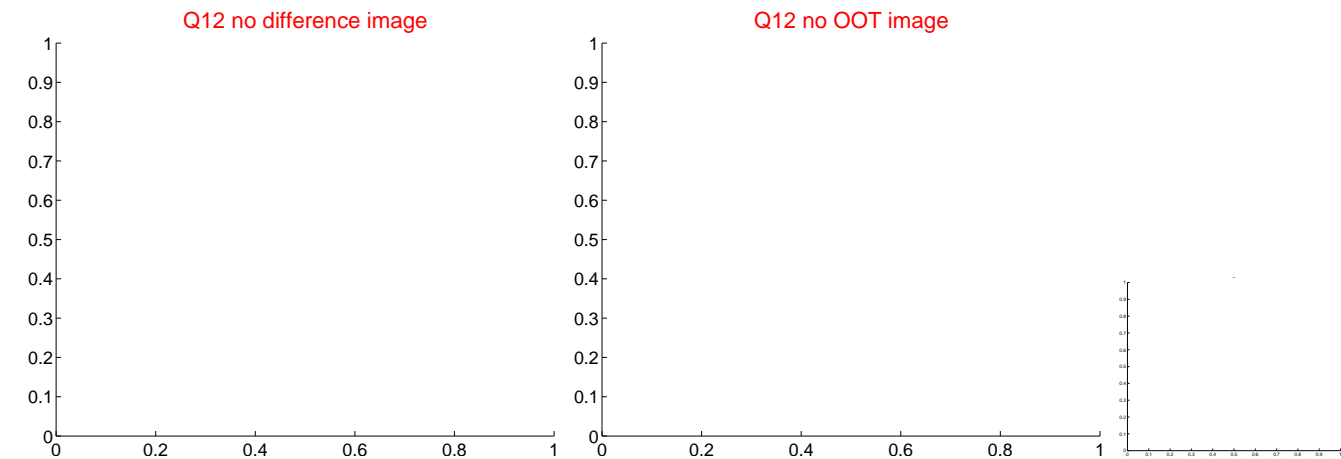
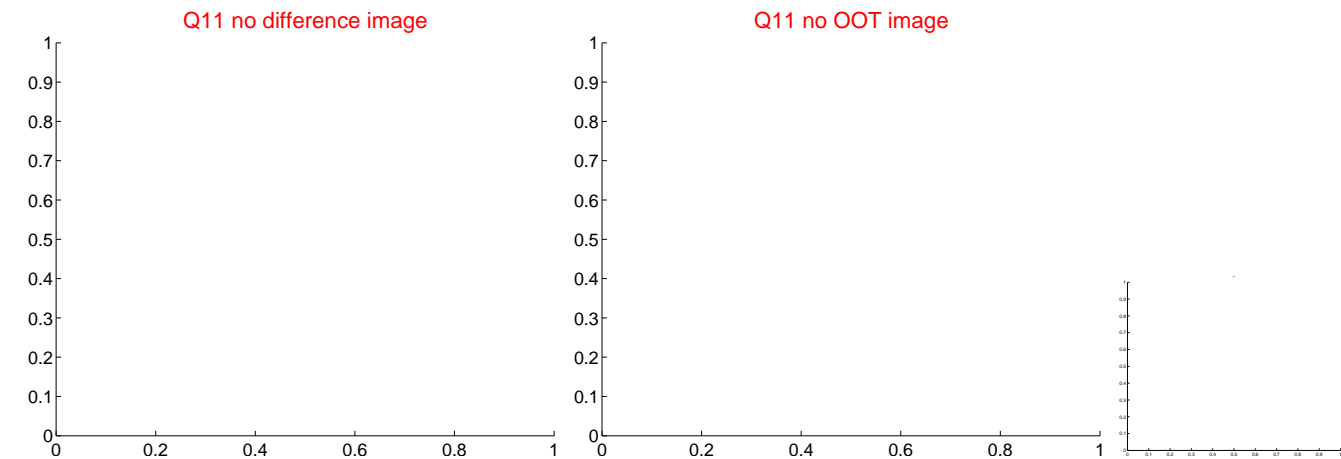
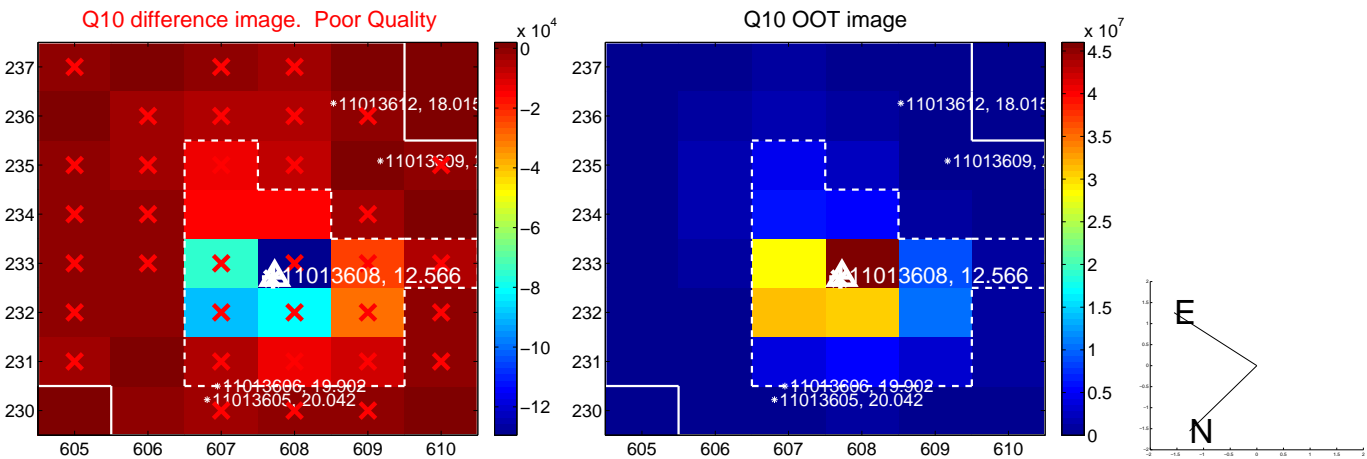
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



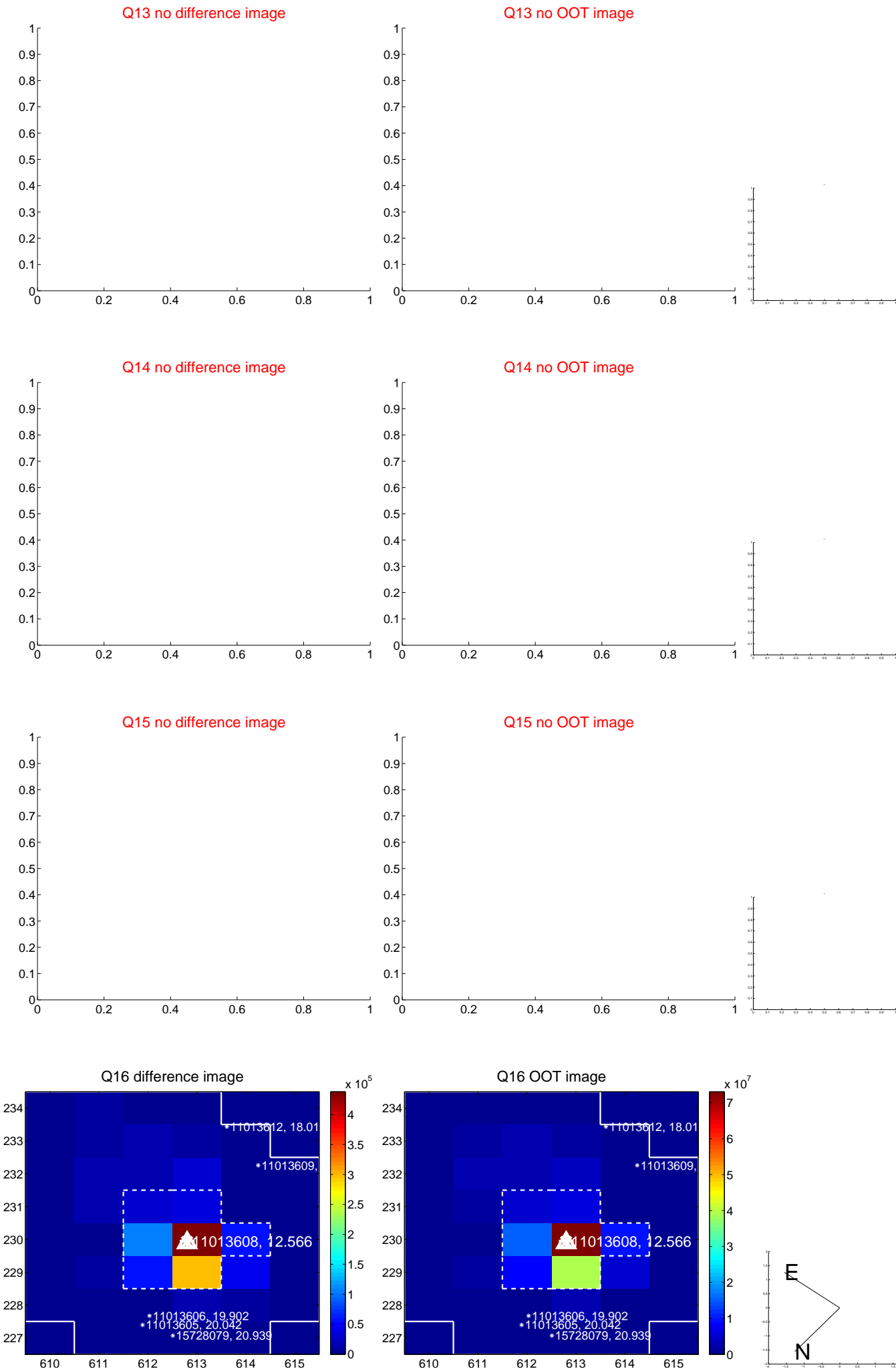
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



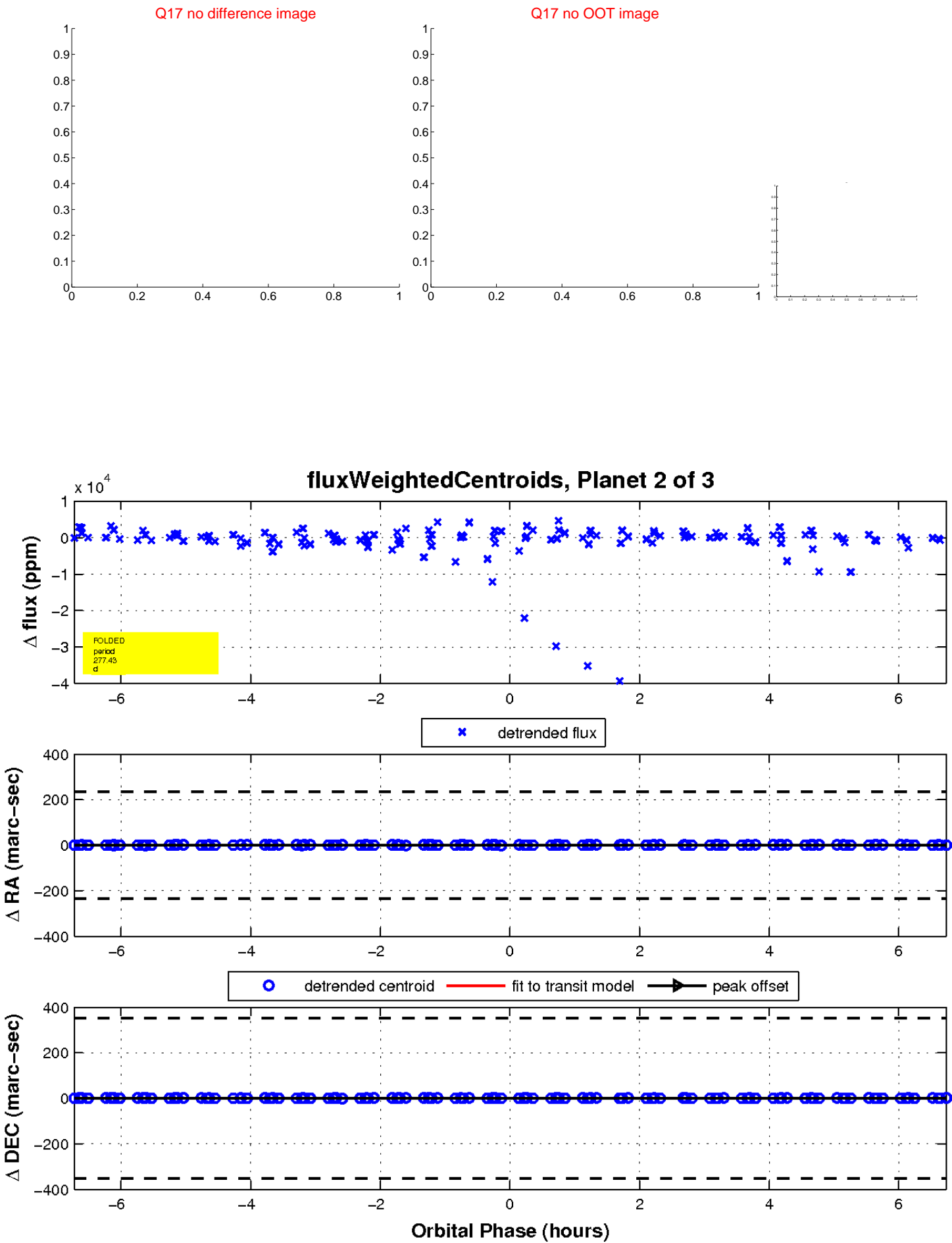
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



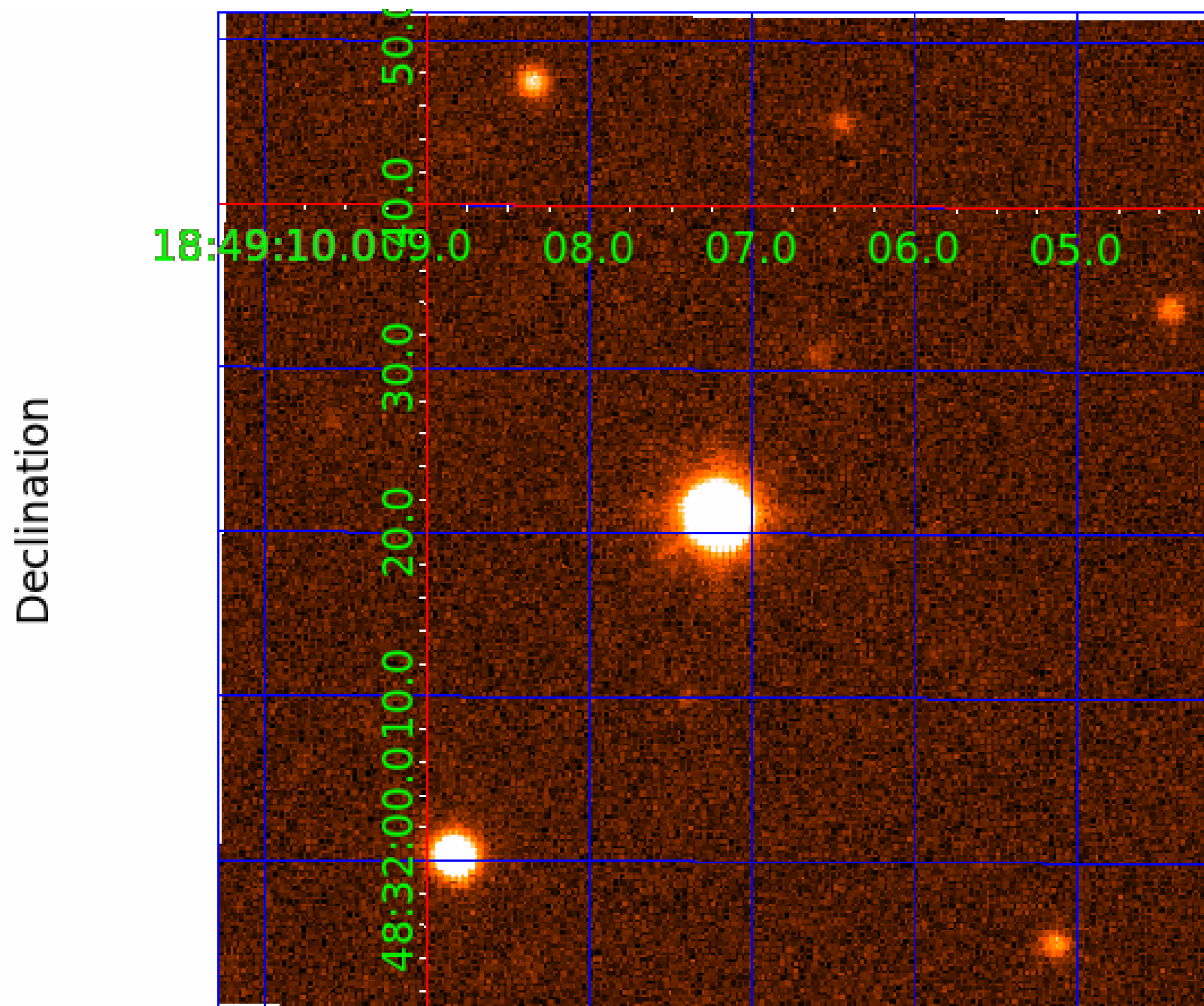
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 011013608

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})
011013608-01	OBS	No	472.226020	279.982511	6988.5	3.835	31.9	22.9	1.35	6453	12.52	1.98
011013608-02	OBS	No	277.428166	164.538285	741.4	3.000	18.9	-1.0	1.35	6453	3.71	4.02
011013608-03	OBS	No	0.635325	131.729744	1199.6	1.500	8.8	-1.0	1.35	6453	4.73	13329.44

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011013608-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
011013608-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
011013608-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_NOFITS

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

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

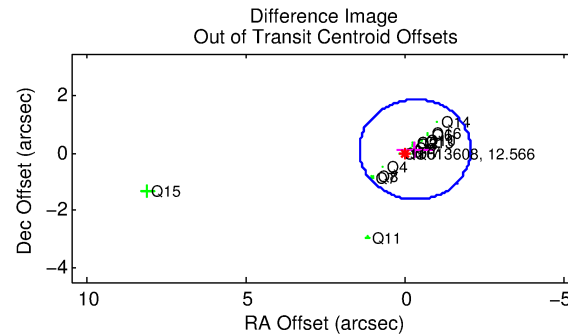
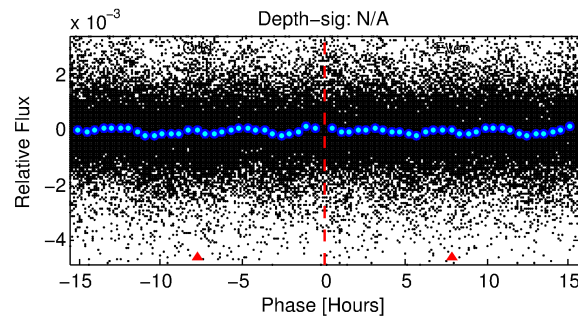
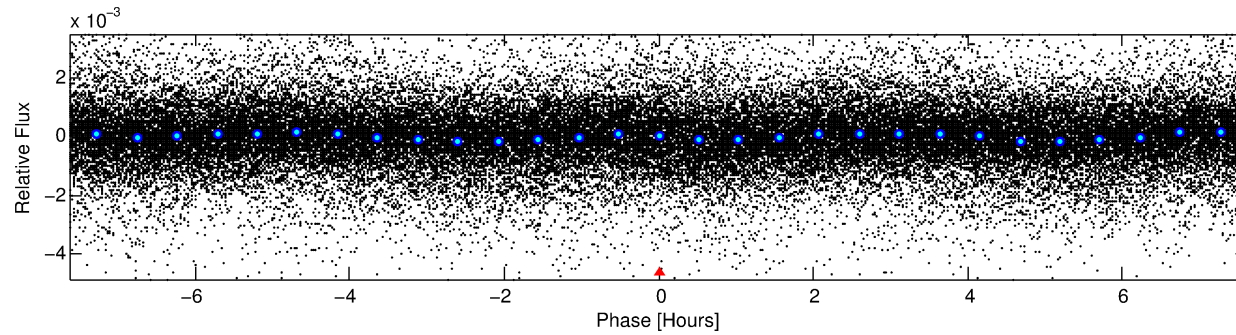
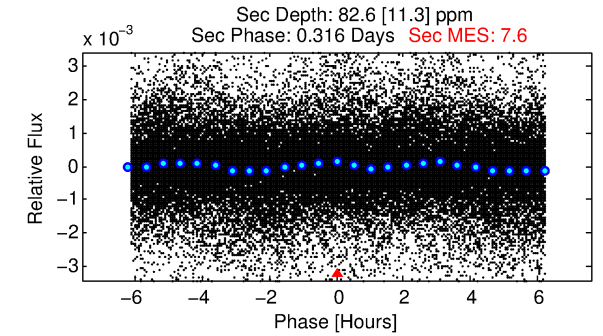
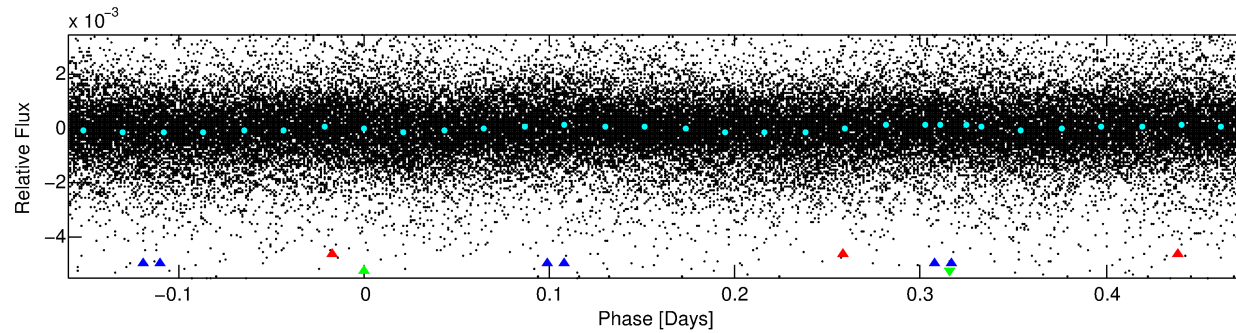
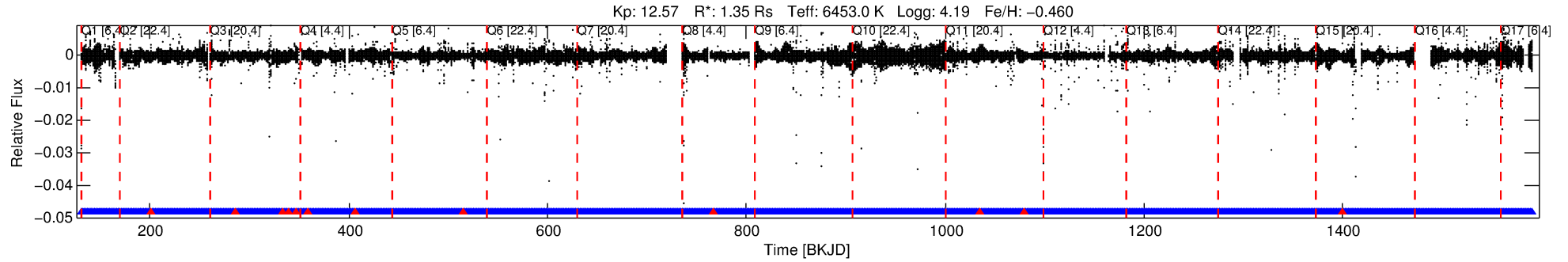
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011013608-03

No Significant Match Found

DV One-Page Summary

KIC: 11013608 Candidate: 3 of 3 Period: 0.635 d



TPS TCE Results:

Period = 0.63532 d
Epoch = 131.7297 BKJD

DV fit results are unavailable

DV Diagnostic Results:

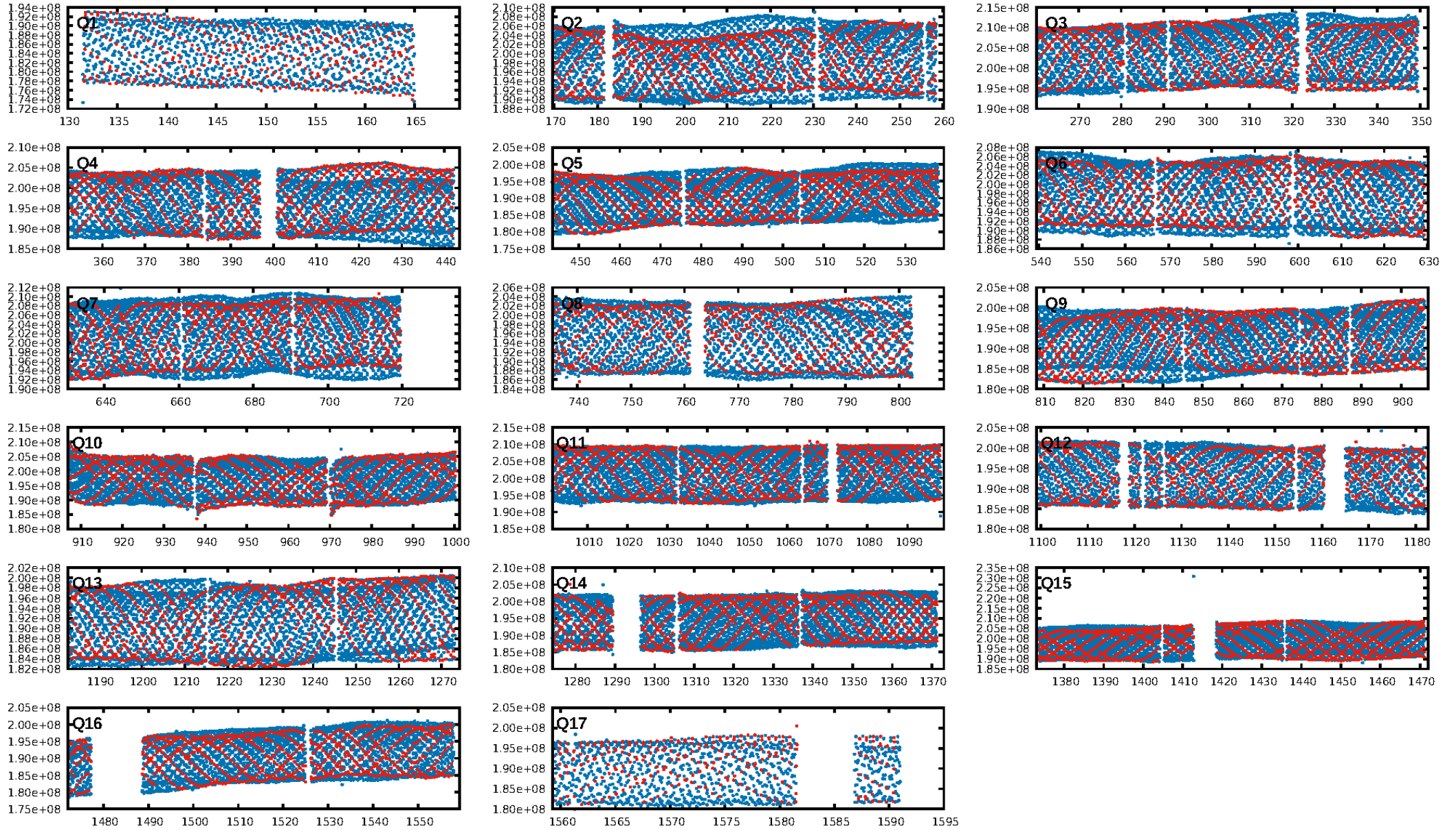
ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [1980.57σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.99 [2000/2012]
GhostDiagnostic-chr: 1.638

Centroid-sig: 78.8%
Centroid-so: 0.062 arcsec [3.43σ]
OotOffset-rm: 0.341 arcsec [0.58σ]
KicOffset-rm: 0.347 arcsec [0.62σ]
OotOffset-st: 4/4/3/5 [16]
KicOffset-st: 4/4/3/5 [16]
DiffImageQuality-fgm: 0.56 [9/16]
DiffImageOverlap-fno: 1.00 [17/17]

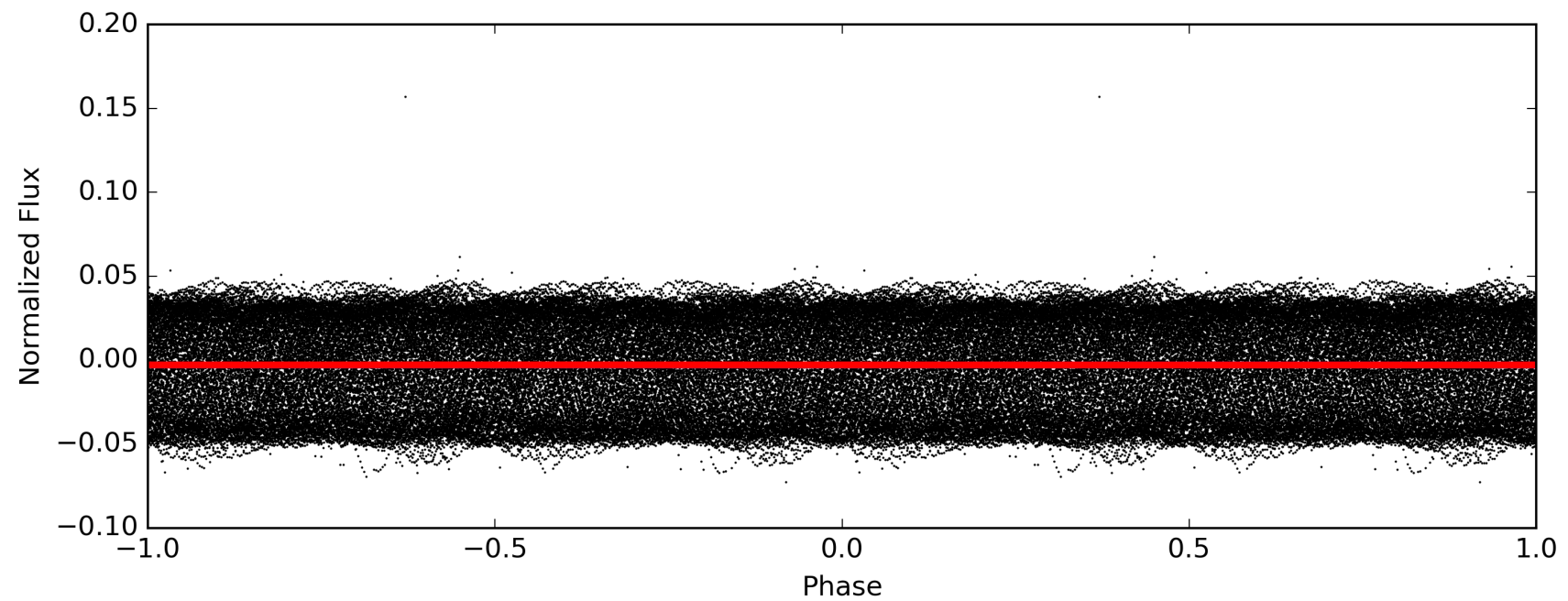
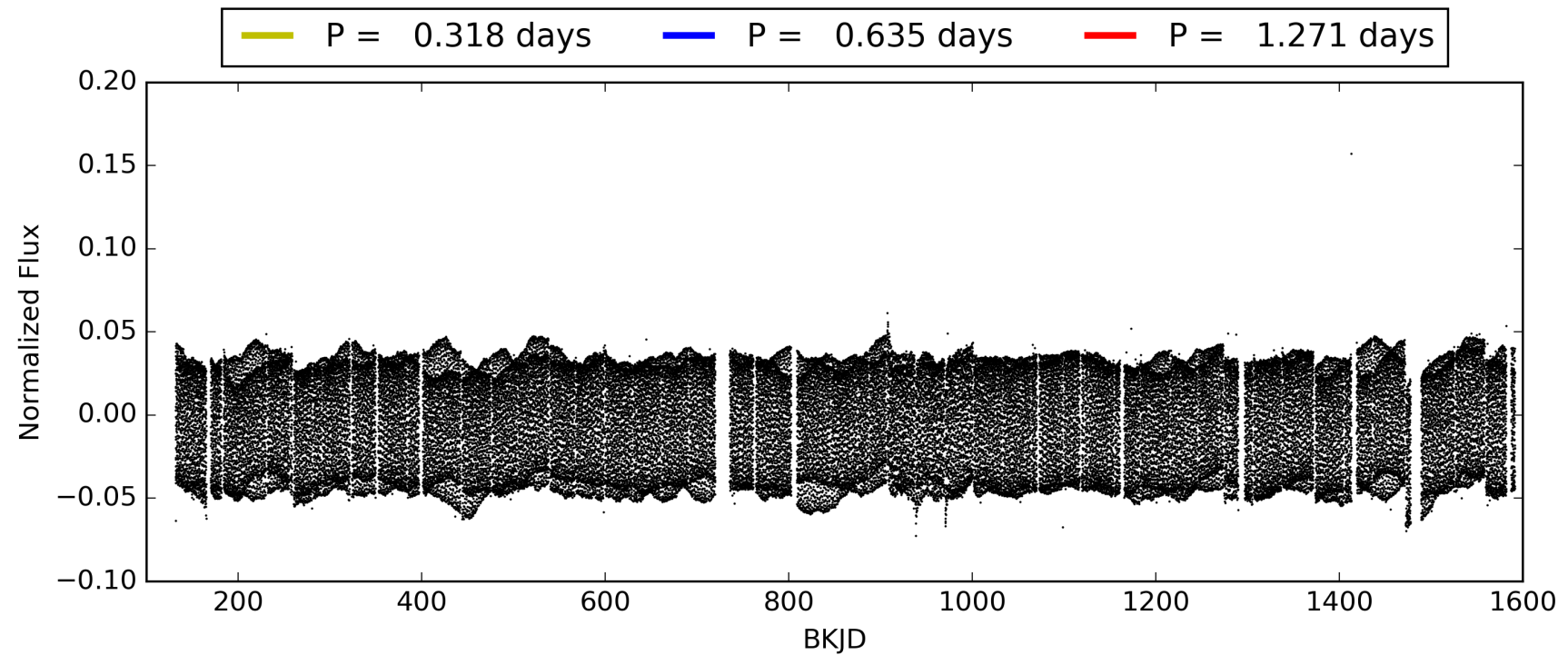
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 10:02:30 Z

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

TCE 011013608-03, PDC Light Curves

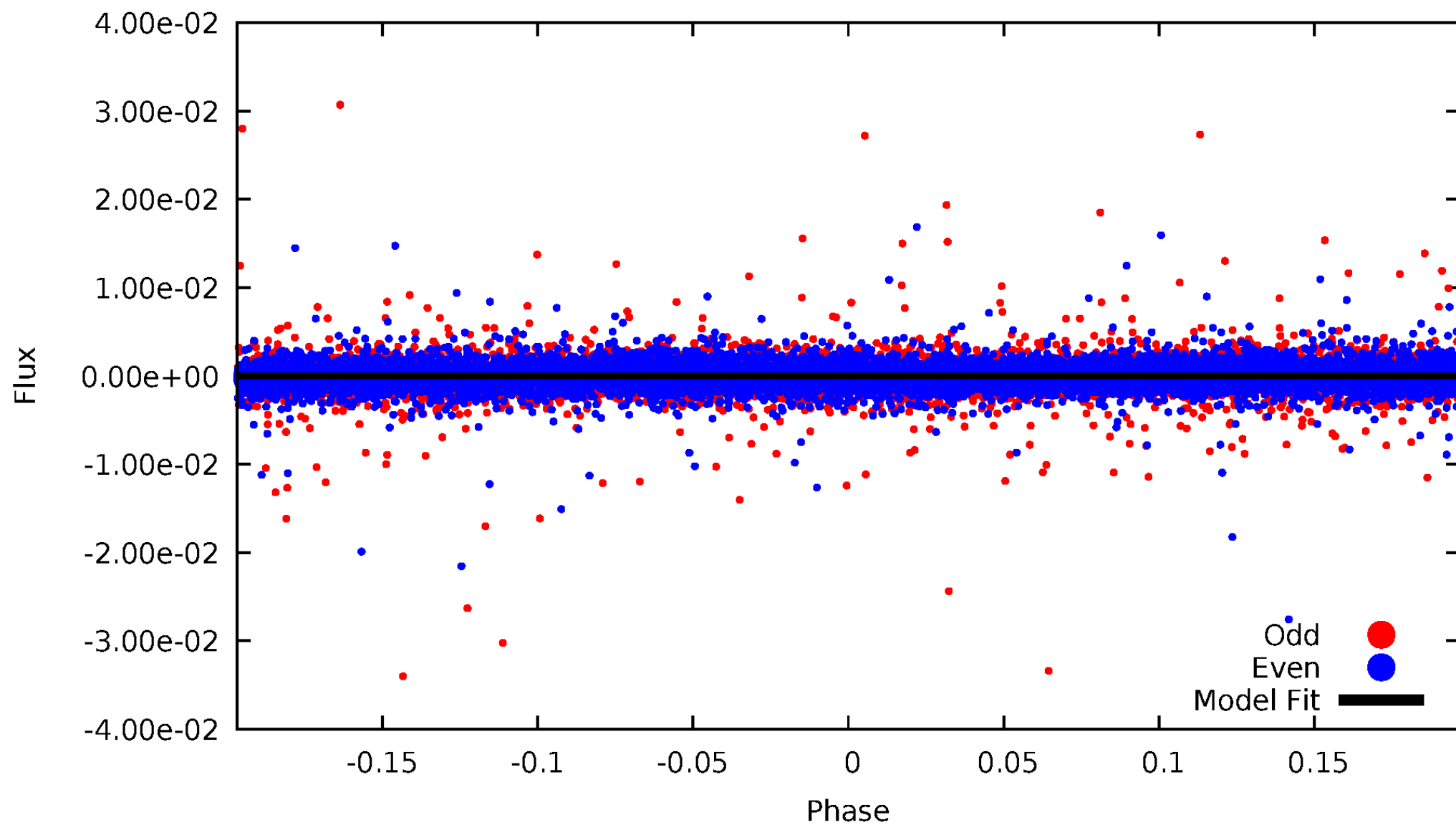


TCE 011013608-03



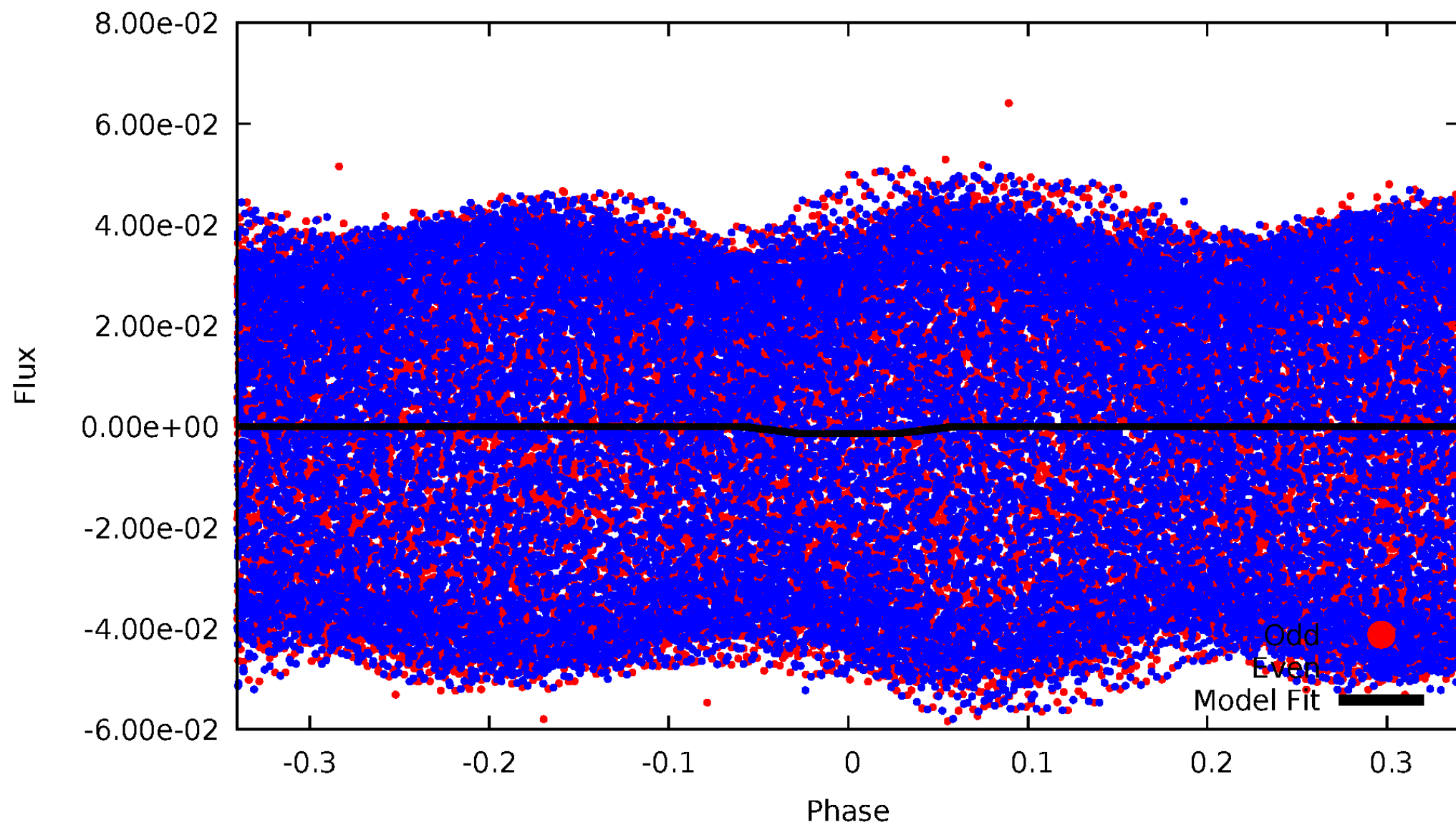
DV Odd/Even

TCE 011013608-03



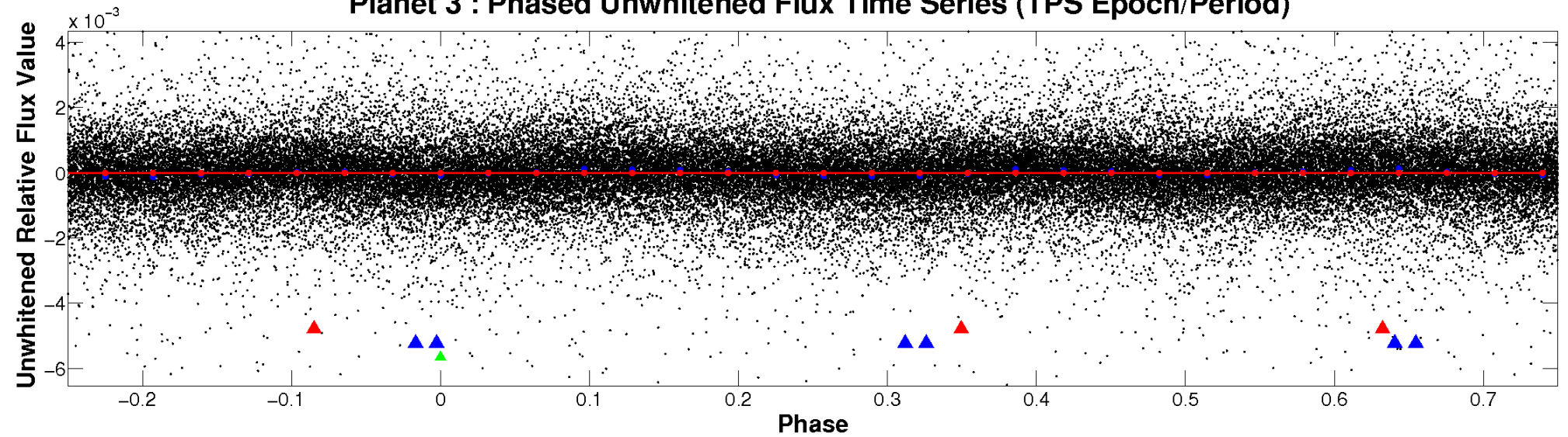
ALT Odd/Even

TCE 011013608-03



Non-Whitened Vs. Whitened Light Curve

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

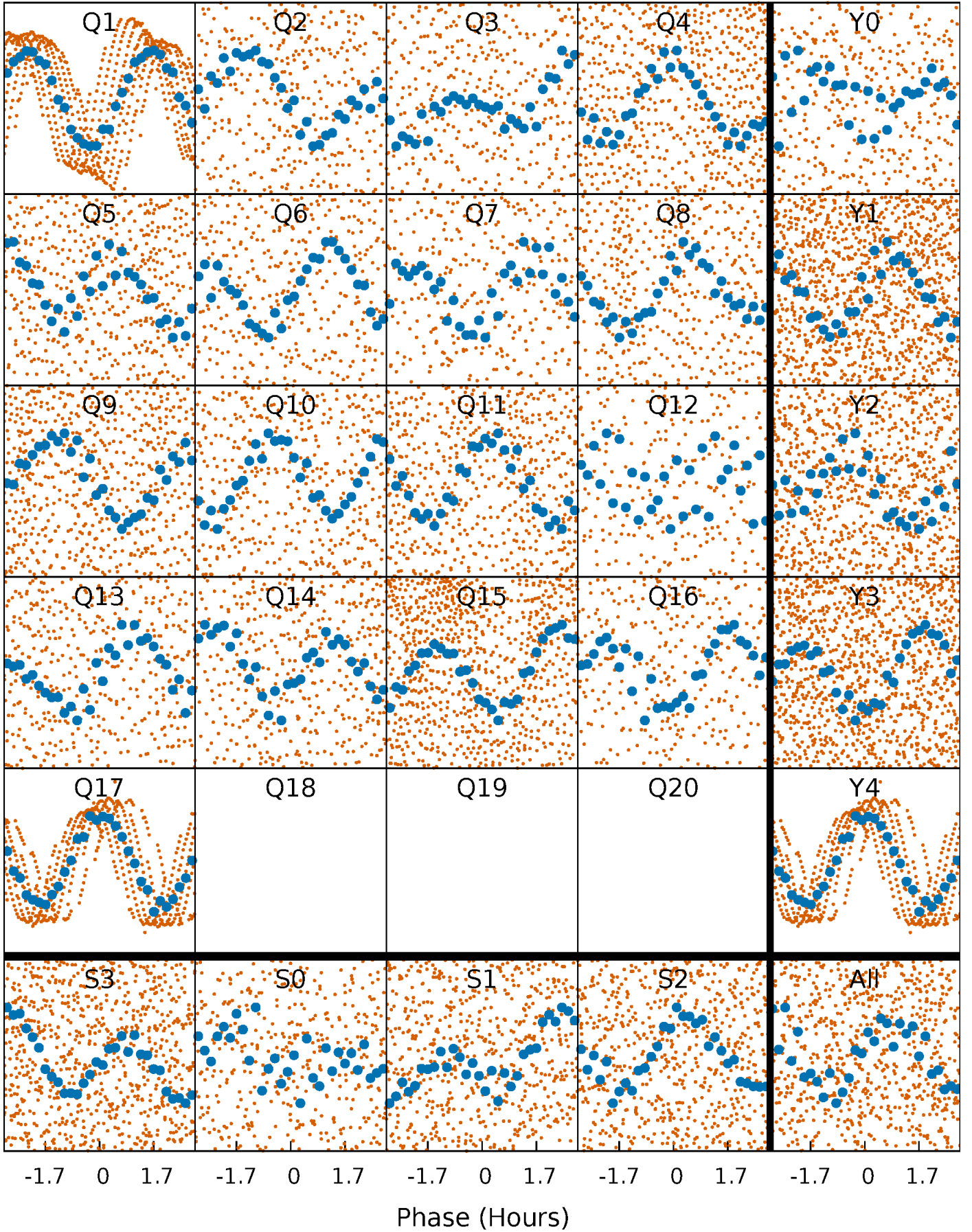


Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)



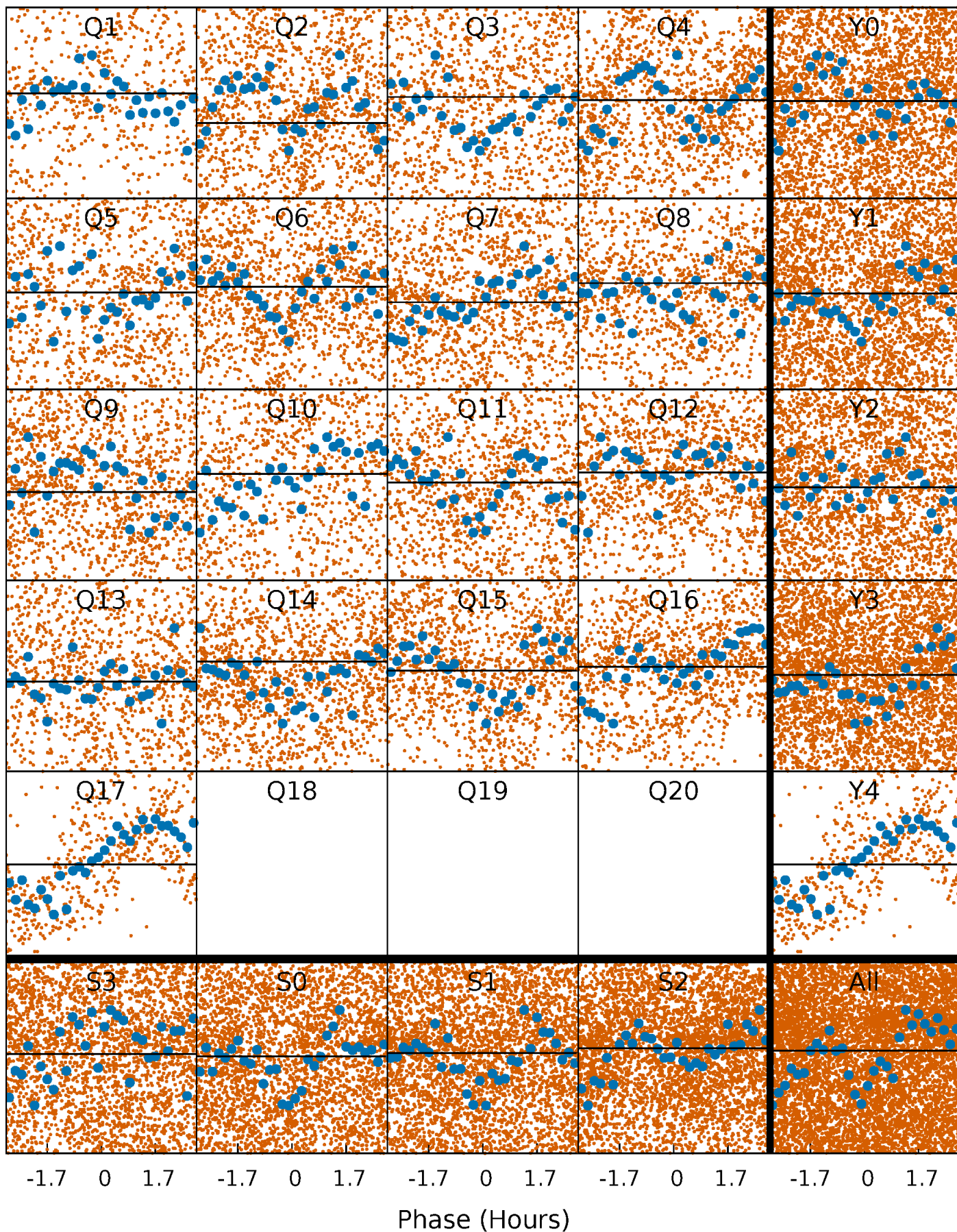
PDC Quarter-Phased Transit Curves

TCE 011013608-03 P= 0.635325 Days $T_0=131.729744$ (BKJD)



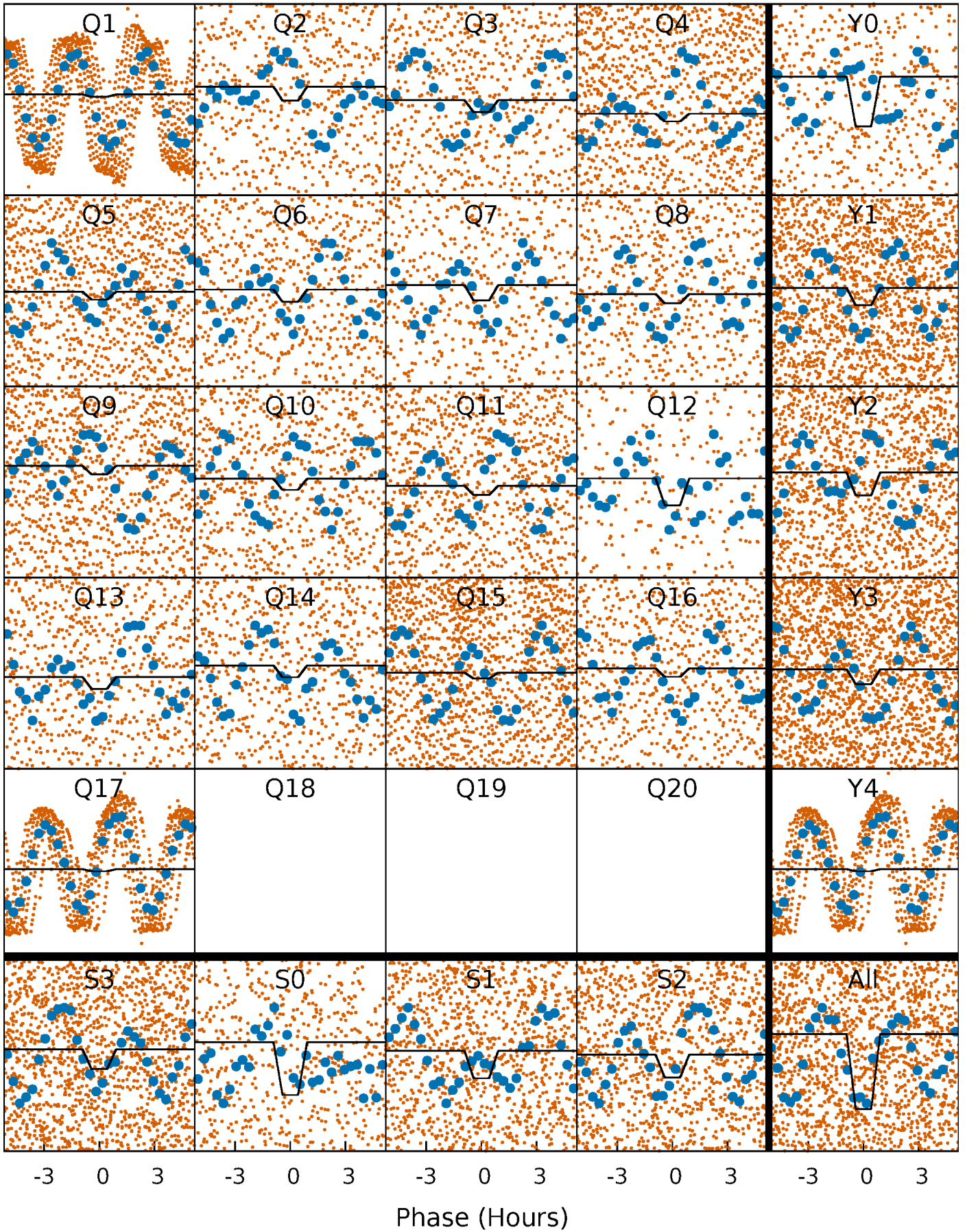
DV Quarter-Phased Transit Curves

TCE 011013608-03 P= 0.635325 Days $T_0=131.729744$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

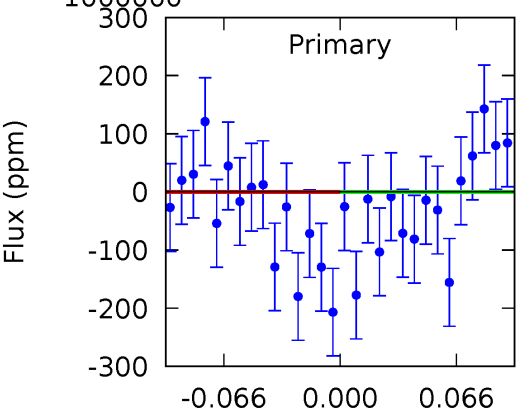
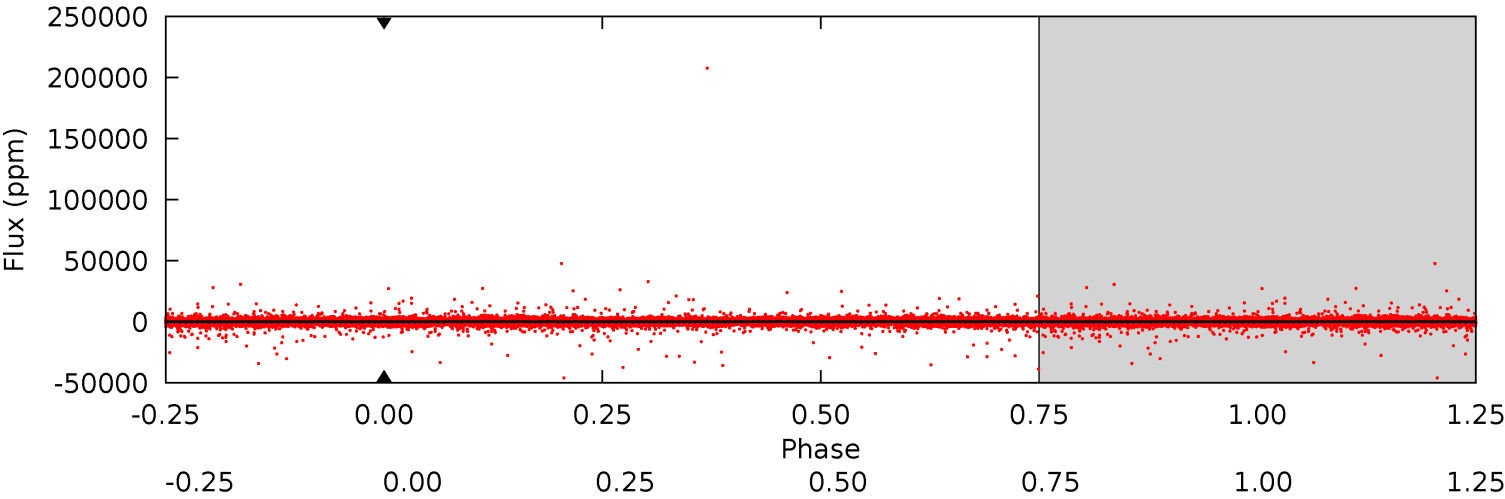
TCE 011013608-03 P= 0.635325 Days $T_0=131.693248$ (BKJD)



DV Model-Shift Uniqueness Test

011013608-03, P = 0.635325 Days, E = 131.094419 Days

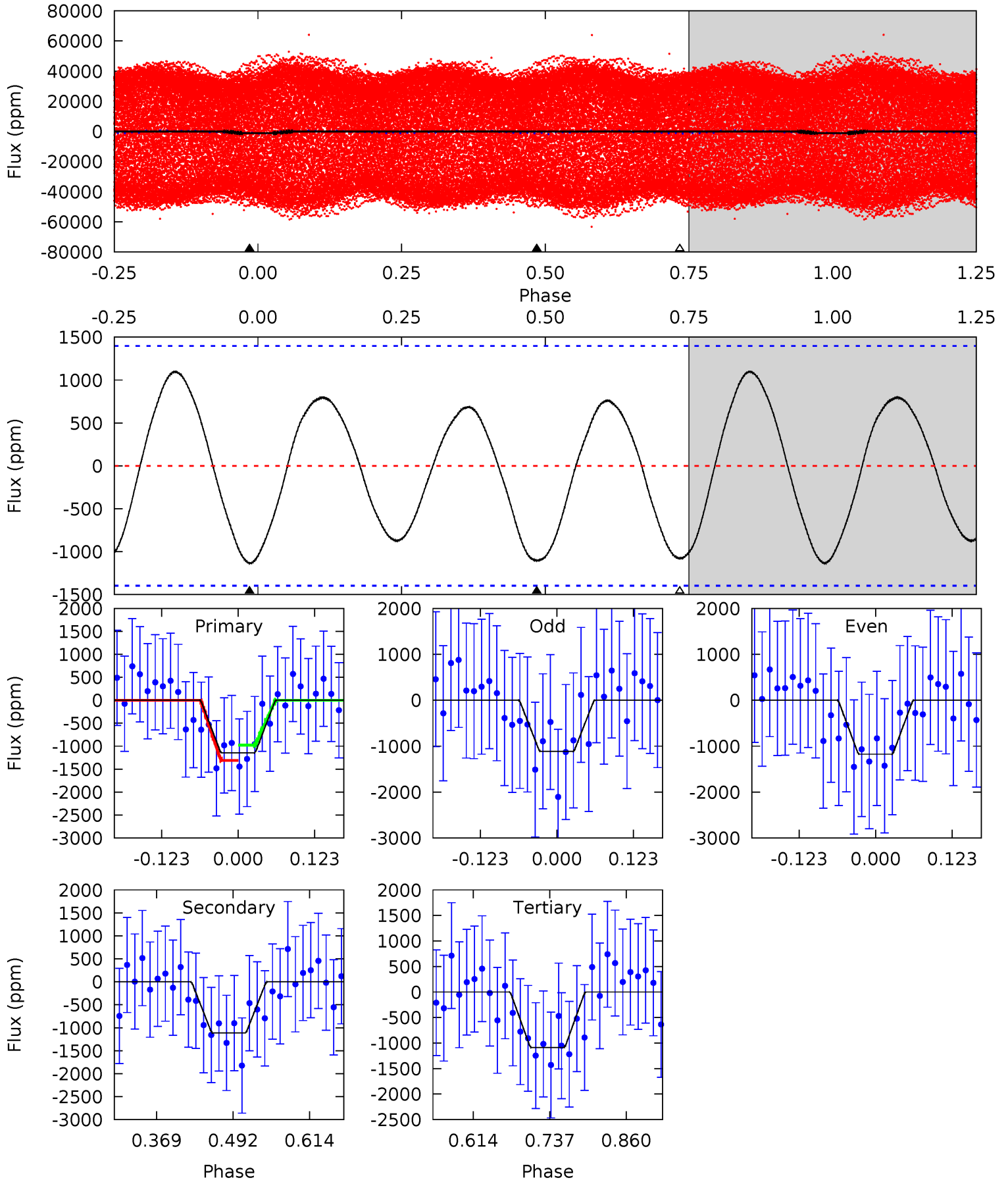
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011013608-03, P = 0.635325 Days, E = 131.057923 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.71	3.60	3.53	0	4.52	1.54	2.12	0.18	3.71	0.08	3.60	0.10	1.64	0.49	0.54



Stellar Parameters For KIC 011013608

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6453^{+146}_{-178}	$4.188^{+0.214}_{-0.175}$	$-0.460^{+0.300}_{-0.300}$	$1.353^{+0.380}_{-0.346}$	$1.029^{+0.162}_{-0.108}$	$0.586^{+0.683}_{-0.278}$
	+2%/-3%	+5%/-4%	+65%/-65%	+28%/-26%	+16%/-10%	+117%/-47%
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 011013608-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$11.75^{+12.74}_{-8.07}$	3811^{+309}_{-276}	-3845^{+29468}_{-18263}	$-0.153^{+163.983}_{-126.420}$
Alt.	-1113 ± 309	$11.81^{+11.58}_{-7.52}$	3826^{+277}_{-285}	3983^{+2802}_{-6891}	$0.879^{+5.729}_{-0.654}$

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 $A_{obs} \gg 1.0$

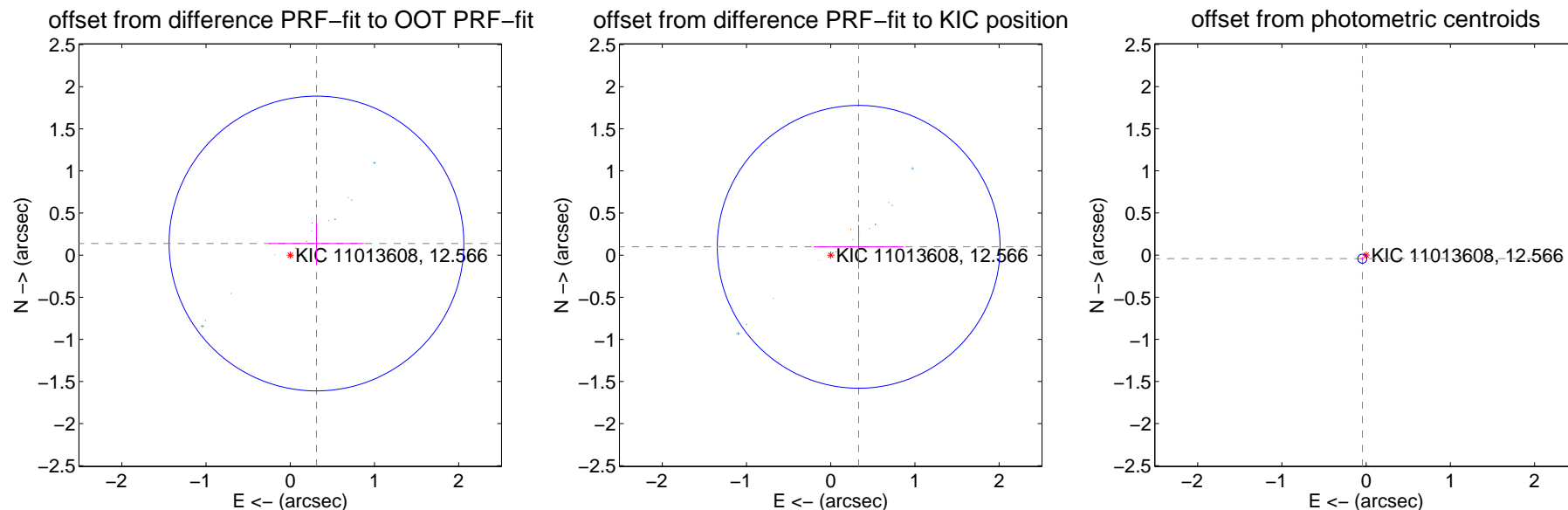
DV Centroid Data

Supplemental centroid analysis for 011013608-03. Kepler magnitude: 12.57. Transit SNR -1.00

There are 9 quarters with good PRF difference image offsets

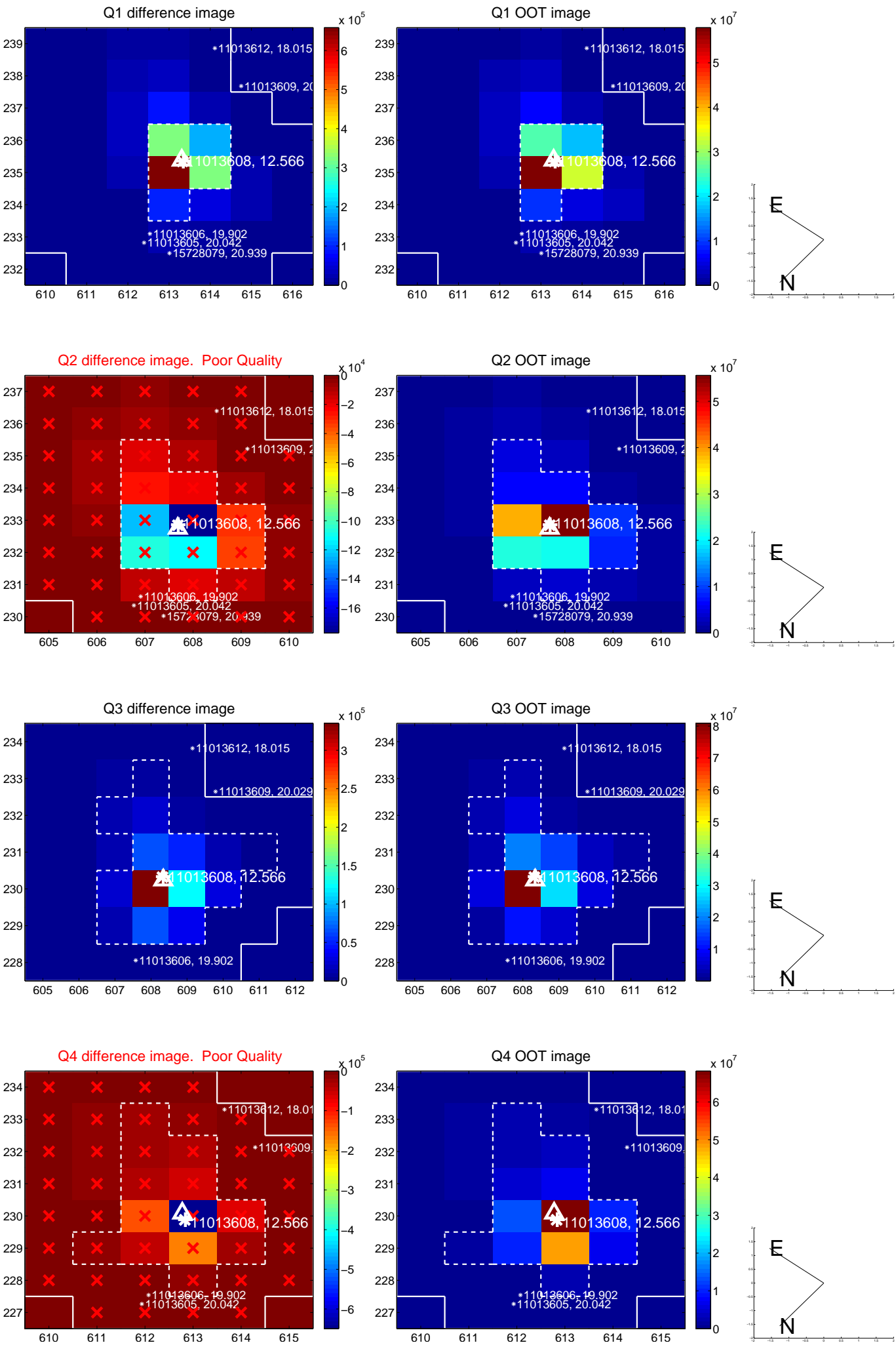
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.341 ± 0.583	0.58	-0.311 ± 0.564	0.138 ± 0.255
PRF-fit source offset from KIC position	0.347 ± 0.560	0.62	-0.332 ± 0.533	0.099 ± 0.260
photometric centroid source offset	0.06 ± 0.02	3.43	0.04 ± 0.02	-0.04 ± 0.02

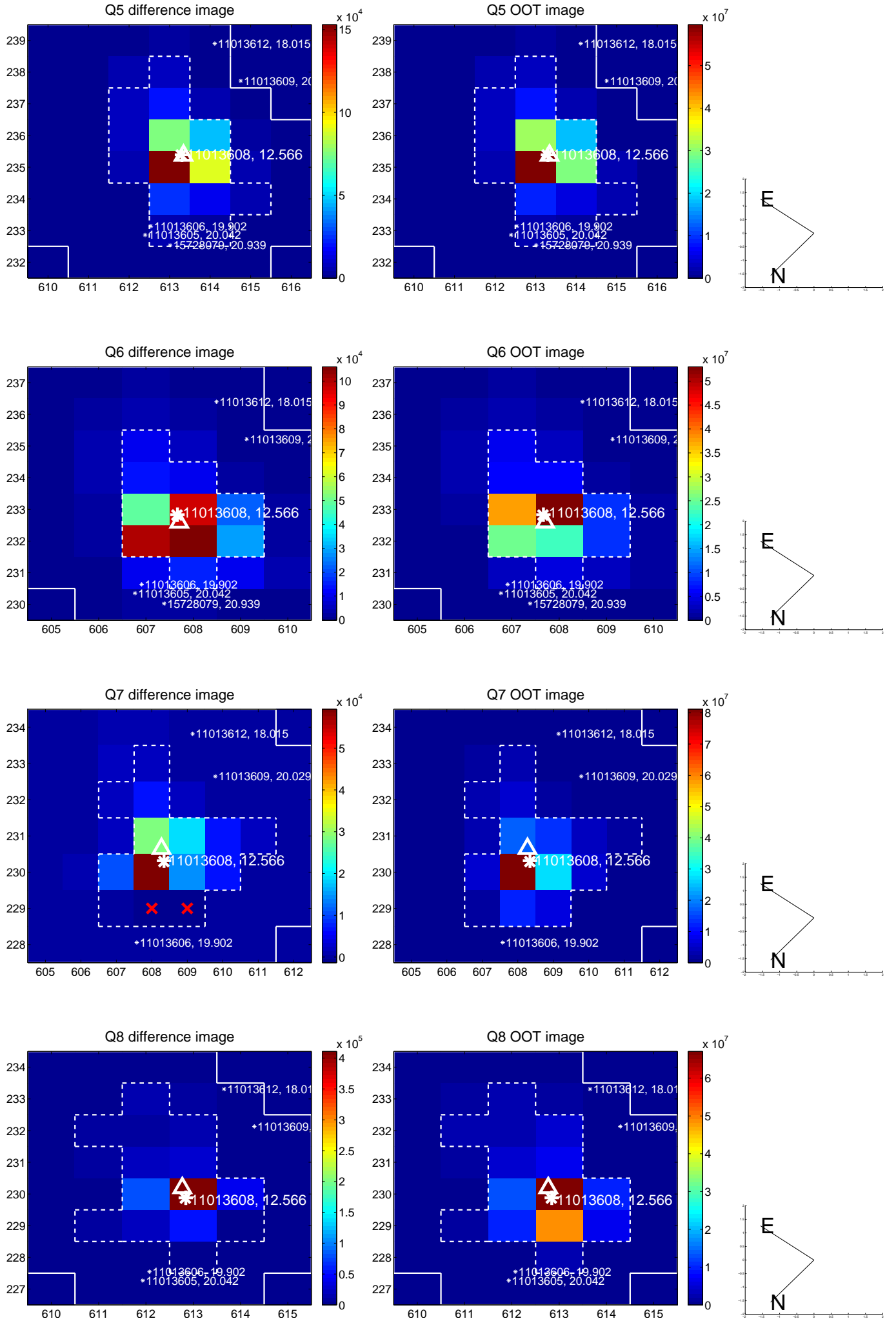


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

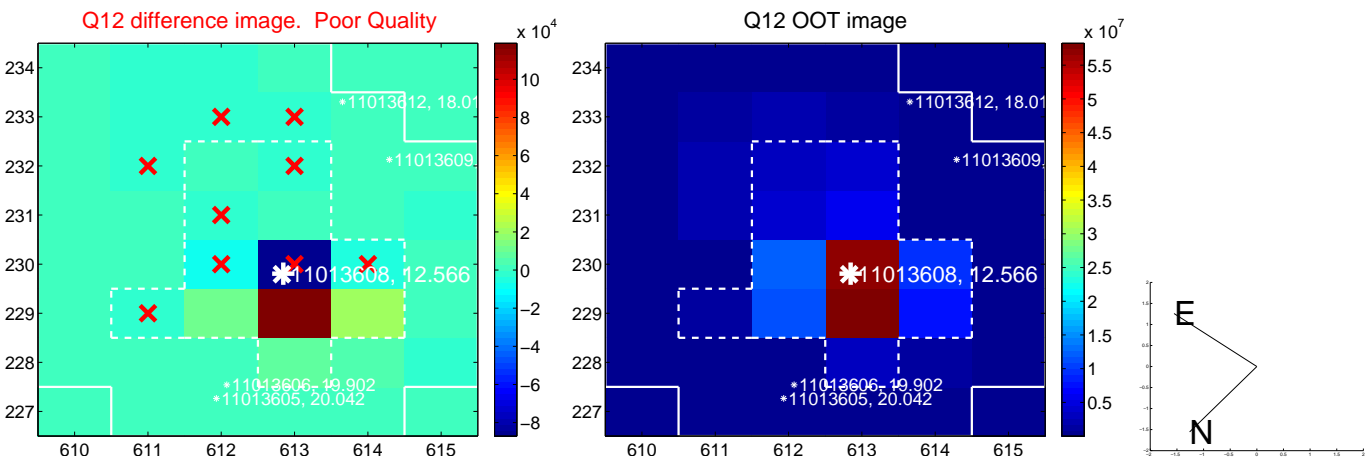
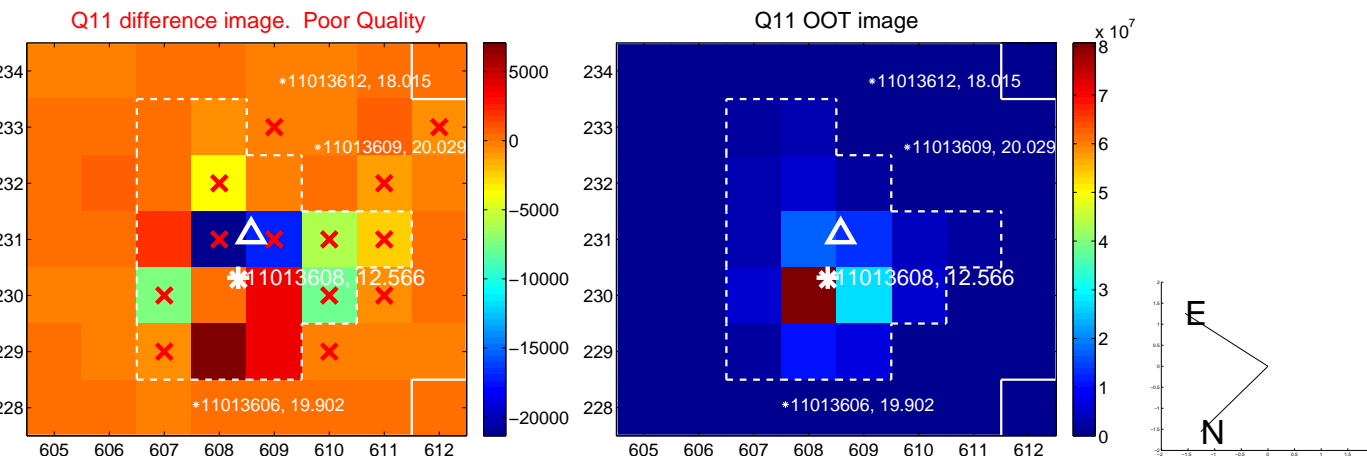
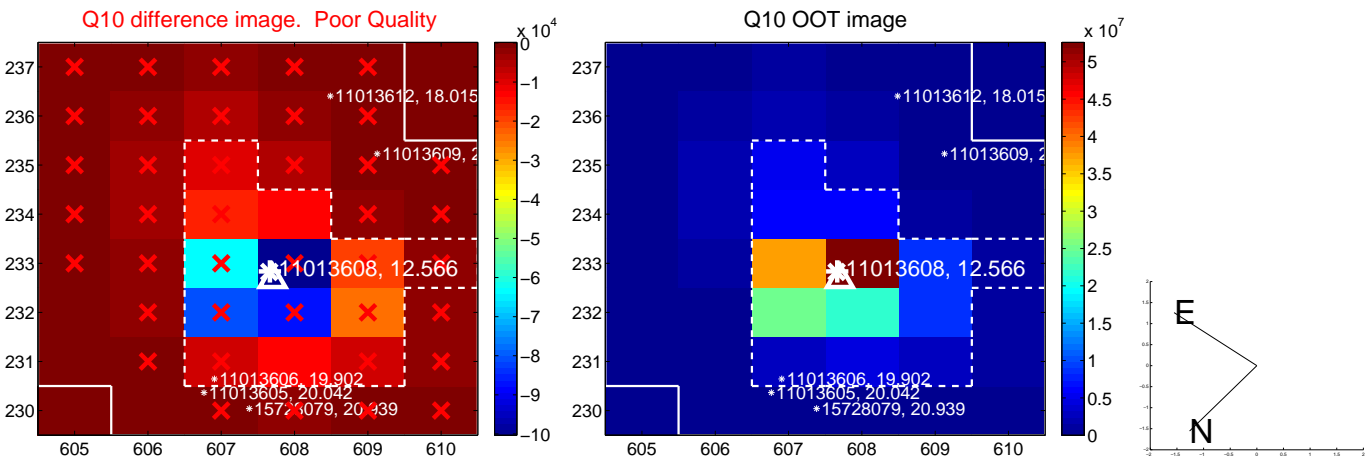
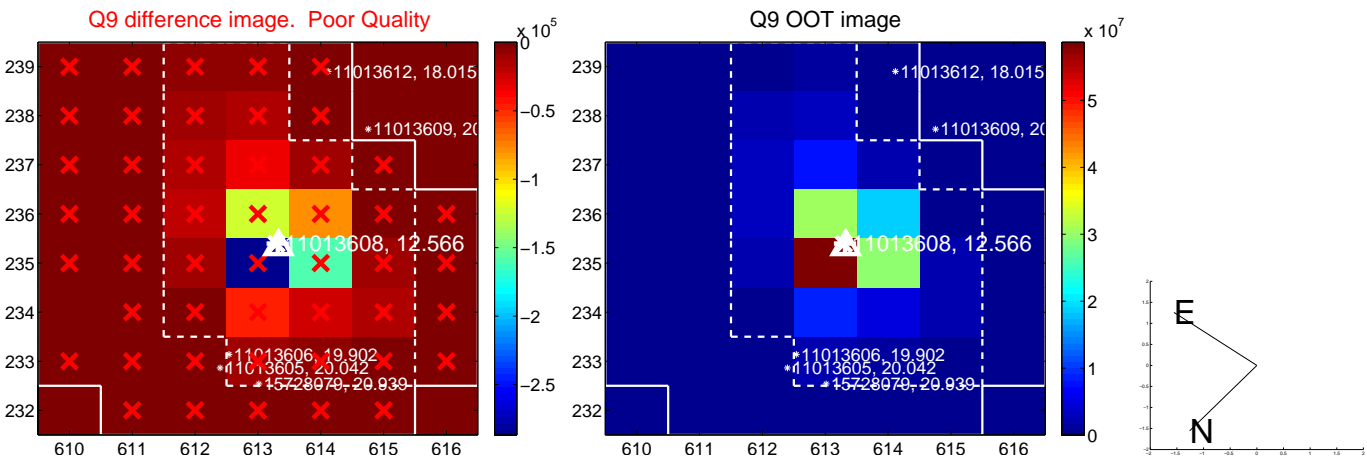
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



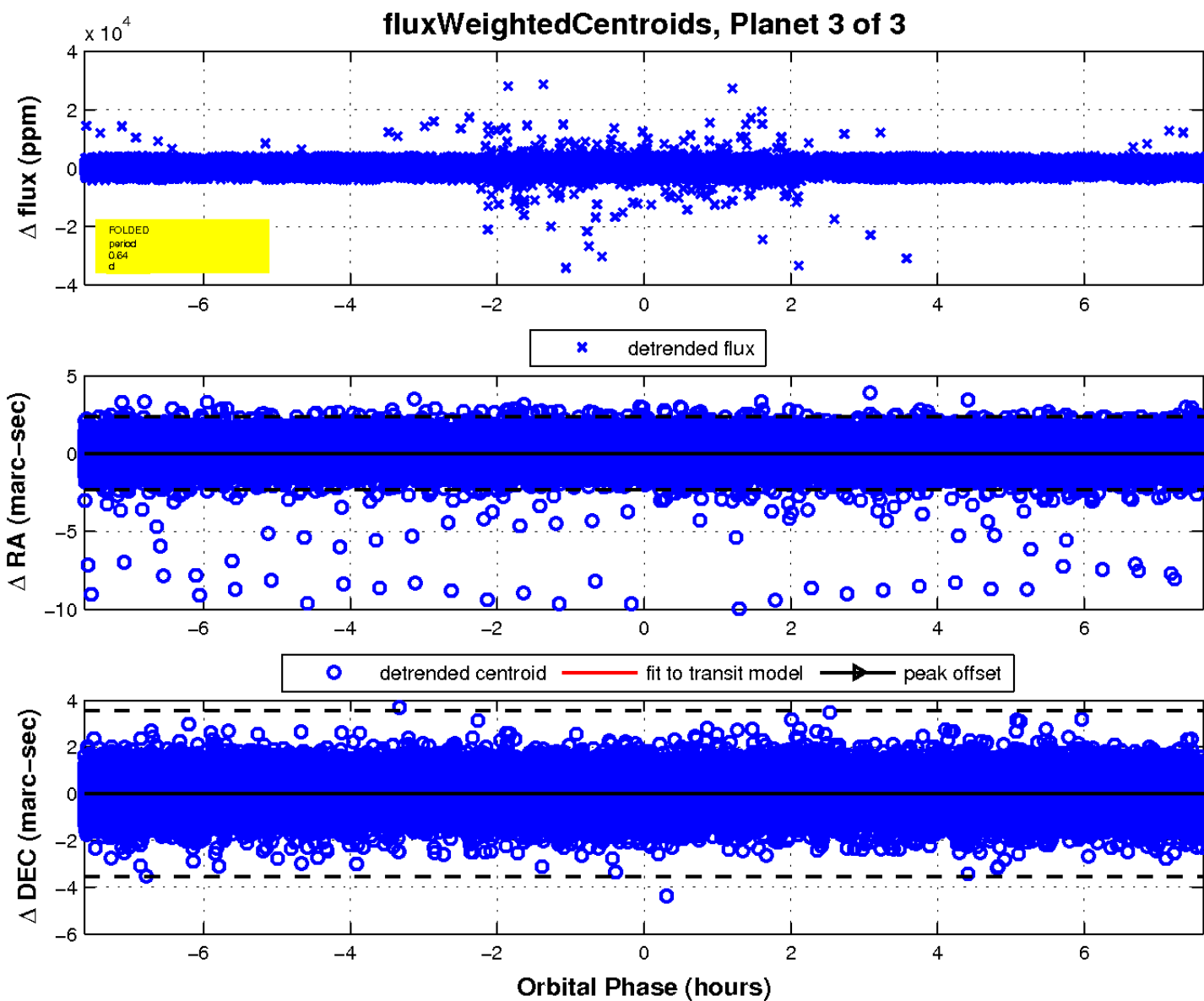
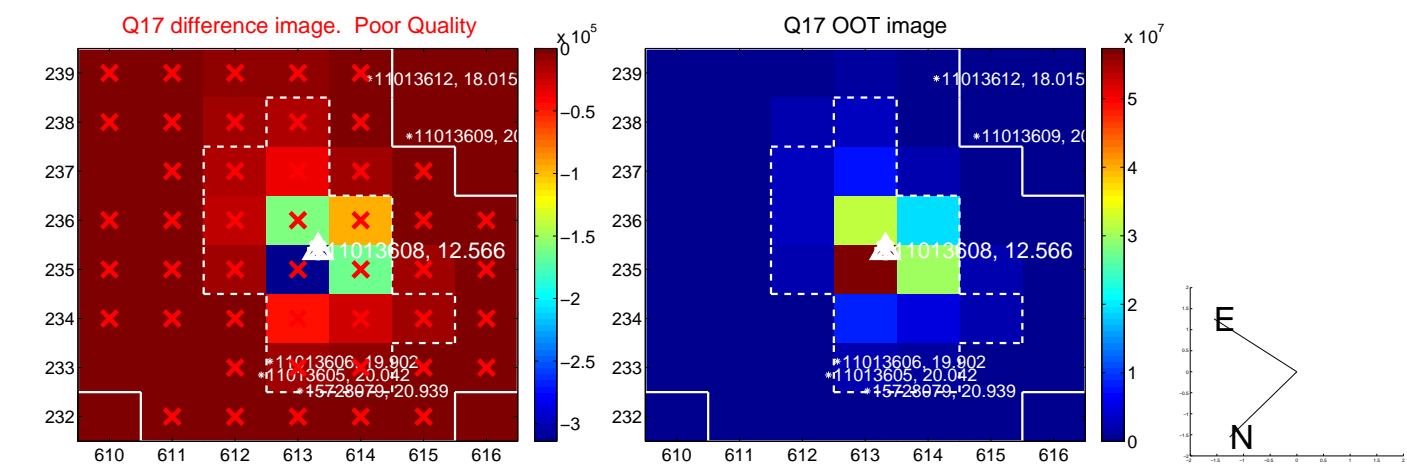
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

