

KIC 011769146

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})
011769146-01	OBS	6089.01	282.963939	193.513226	477287.9	12.500	11276.9	-1.0	0.96	5999	49.88	1.46
011769146-02	OBS	No	282.963939	350.439561	281865.6	6.000	2023.5	-1.0	0.96	5999	29.32	1.46
011769146-03	OBS	No	280.045019	355.528220	657.1	22.595	28.7	8.9	0.96	5999	2.50	1.48

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011769146-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_ALT—HAS_SEC_TCE—CENT_NOFITS
011769146-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_NOFITS
011769146-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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.

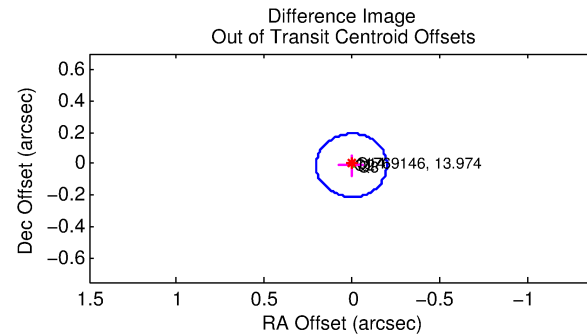
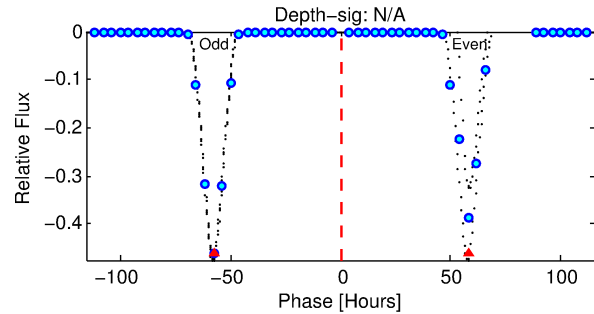
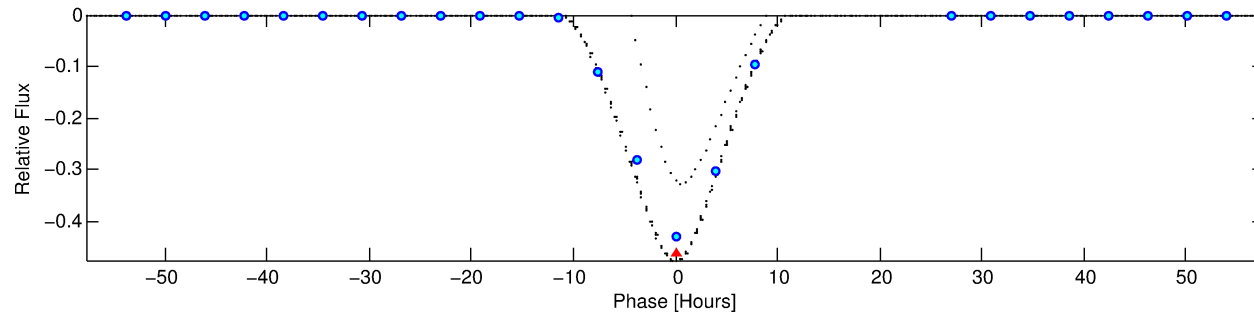
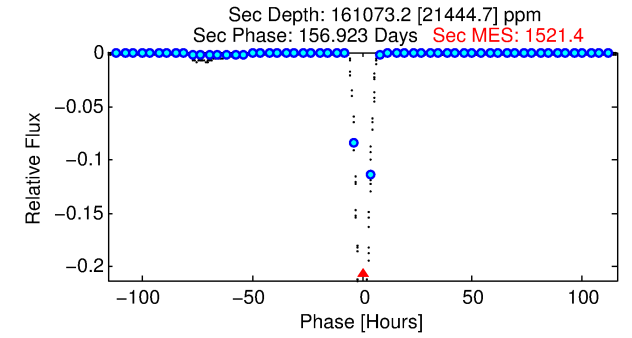
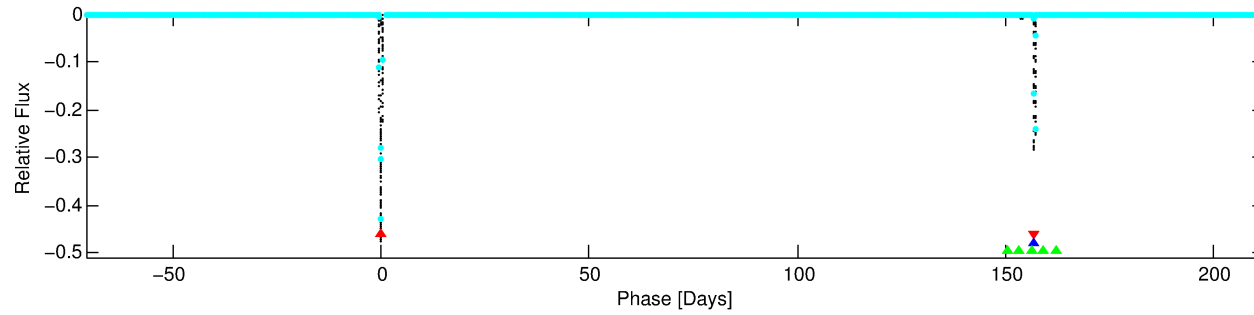
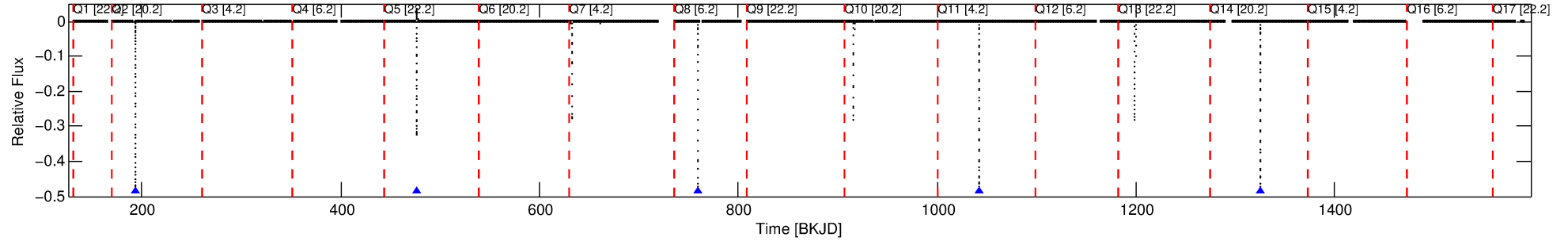
Ephemeris Match Information For 011769146-01

No Significant Match Found

DV One-Page Summary

KIC: 11769146 Candidate: 1 of 3 Period: 282.964 d
KOI: K06089.01 Corr: 0.761

Kp: 13.97 R*: 0.96 Rs Teff: 5999.0 K Logg: 4.49 Fe/H: -0.060



TPS TCE Results:

Period = 282.96394 d
Epoch = 193.5132 BKJD

DV fit results are unavailable

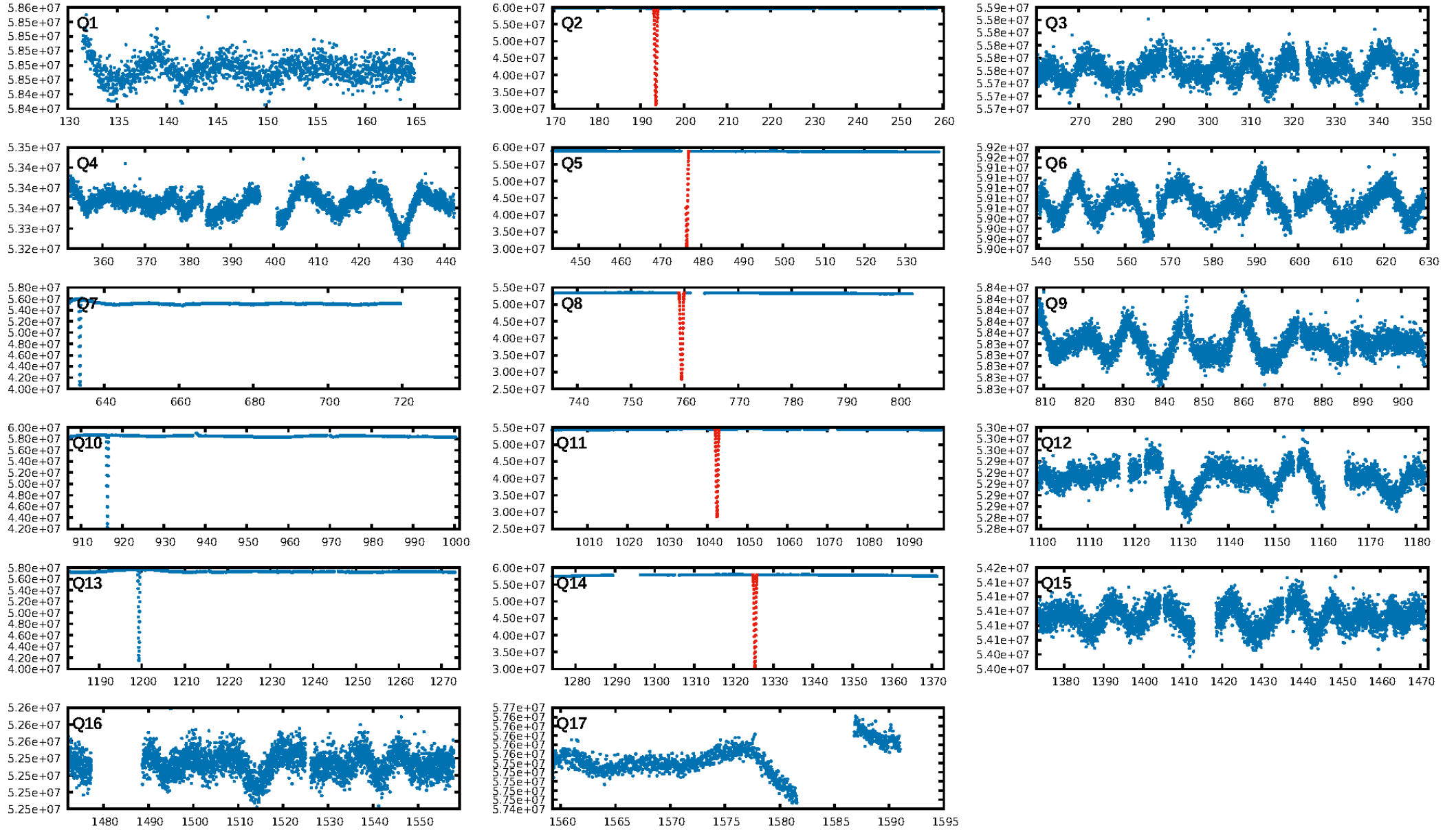
DV Diagnostic Results:

ShortPeriod-sig: 99.3% [2.71 σ]
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 5.141
Centroid-sig: 0.0%
Centroid-so: 0.029 arcsec [25.49 σ]
OotOffset-rm: 0.011 arcsec [0.16 σ]
KicOffset-rm: 0.055 arcsec [0.74 σ]
OotOffset-st: 2/0/1/0 [3]
KicOffset-st: 2/0/1/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

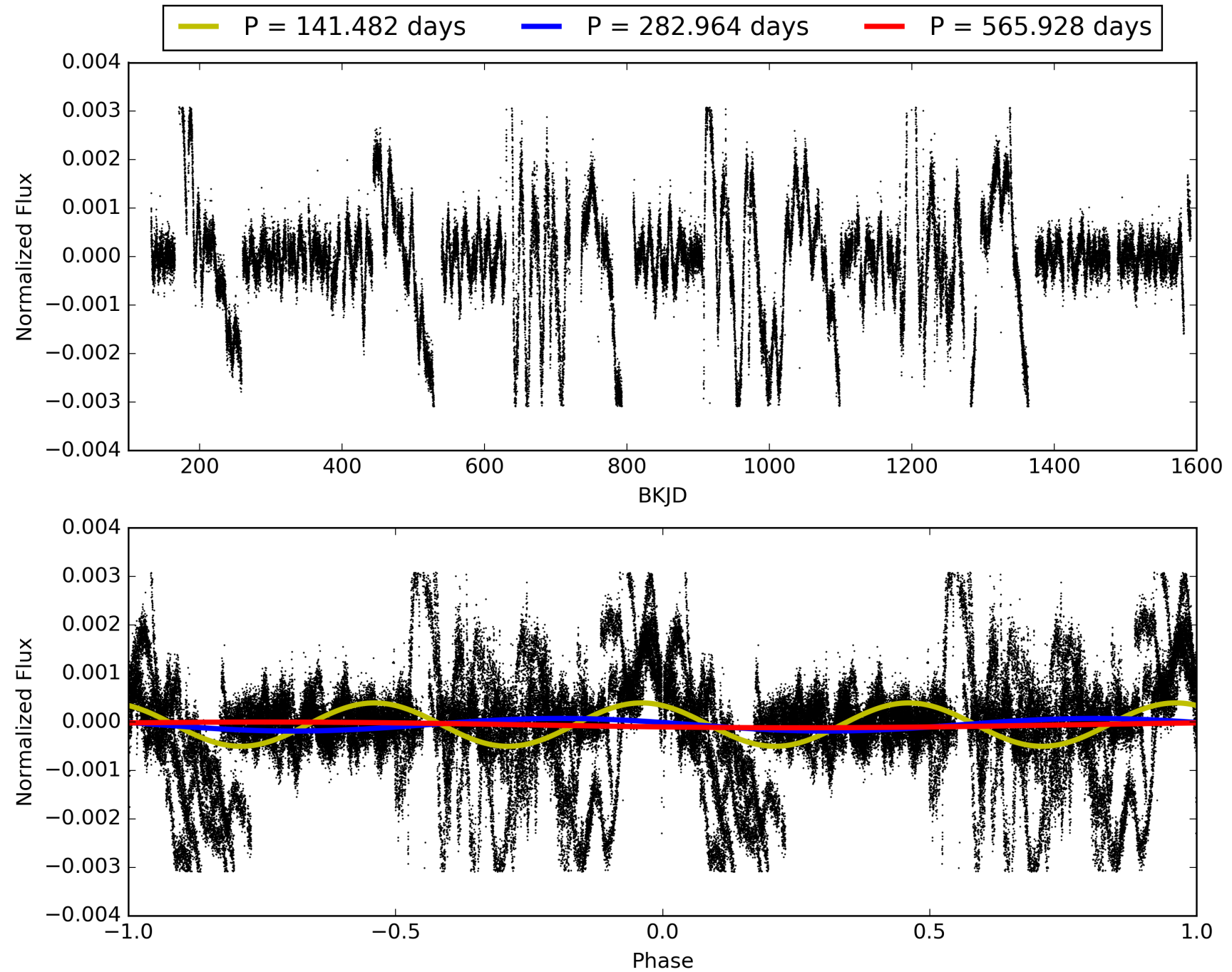
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 09:15:11 Z

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

TCE 011769146-01, PDC Light Curves

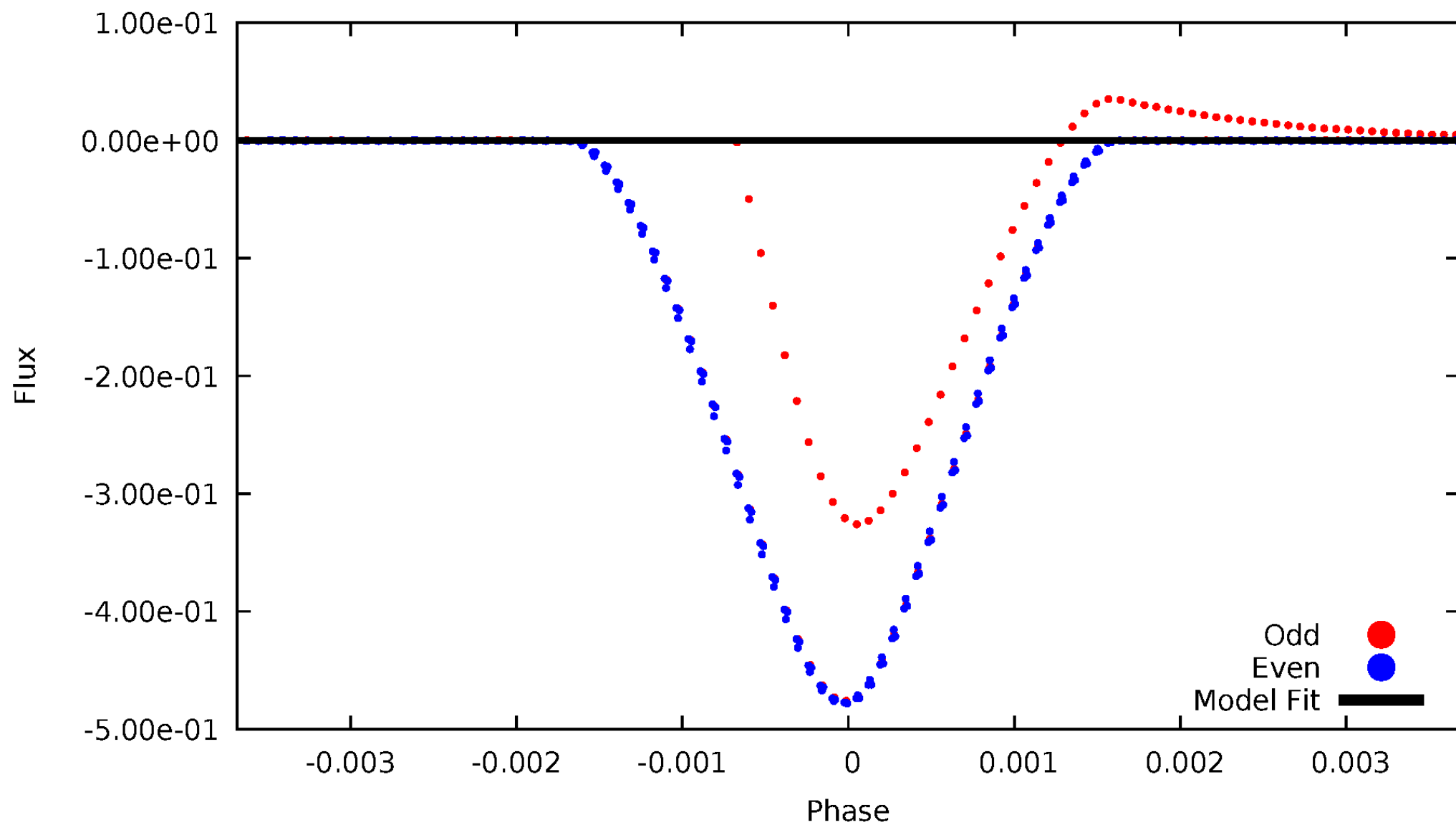


TCE 011769146-01



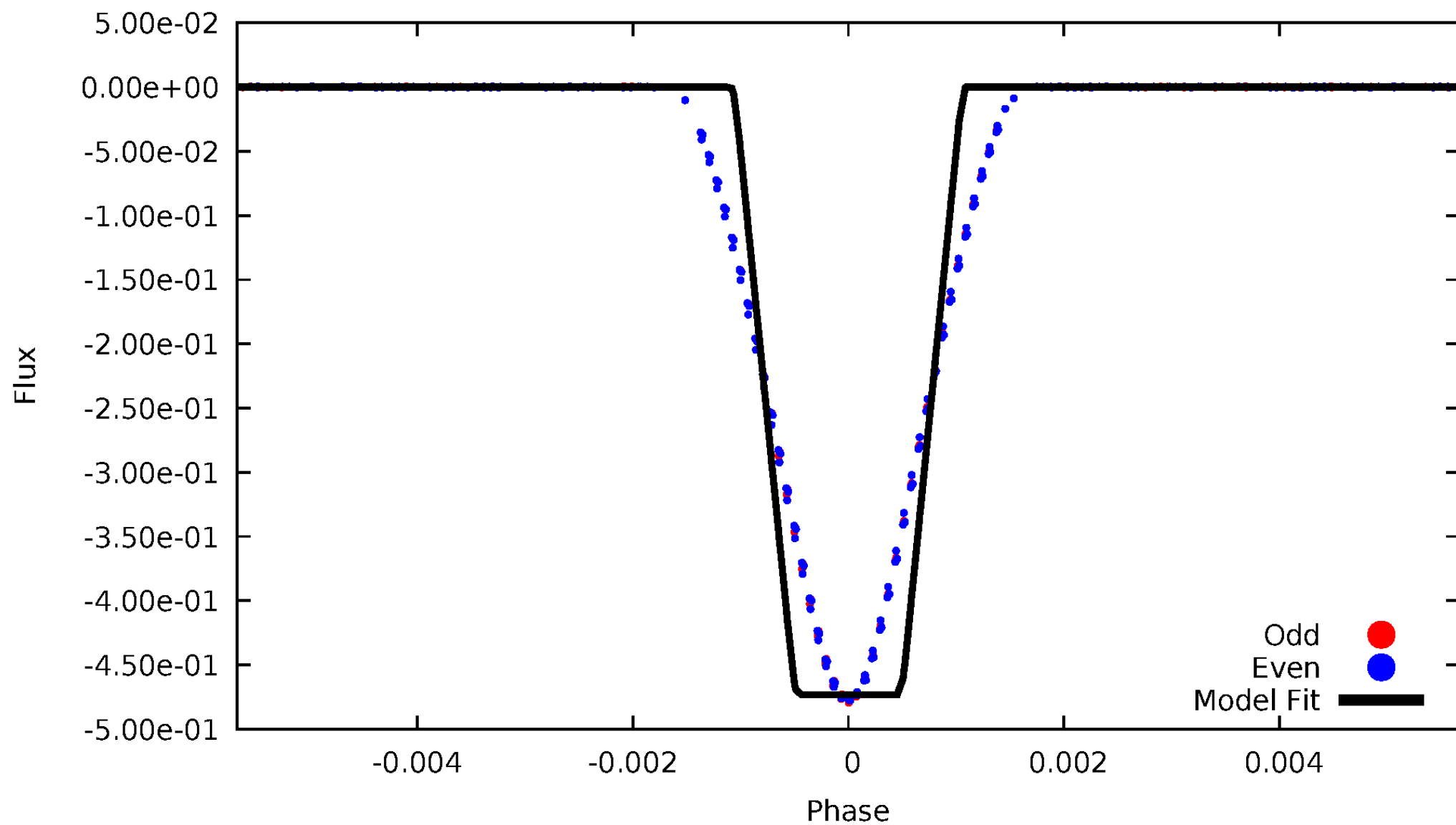
DV Odd/Even

TCE 011769146-01



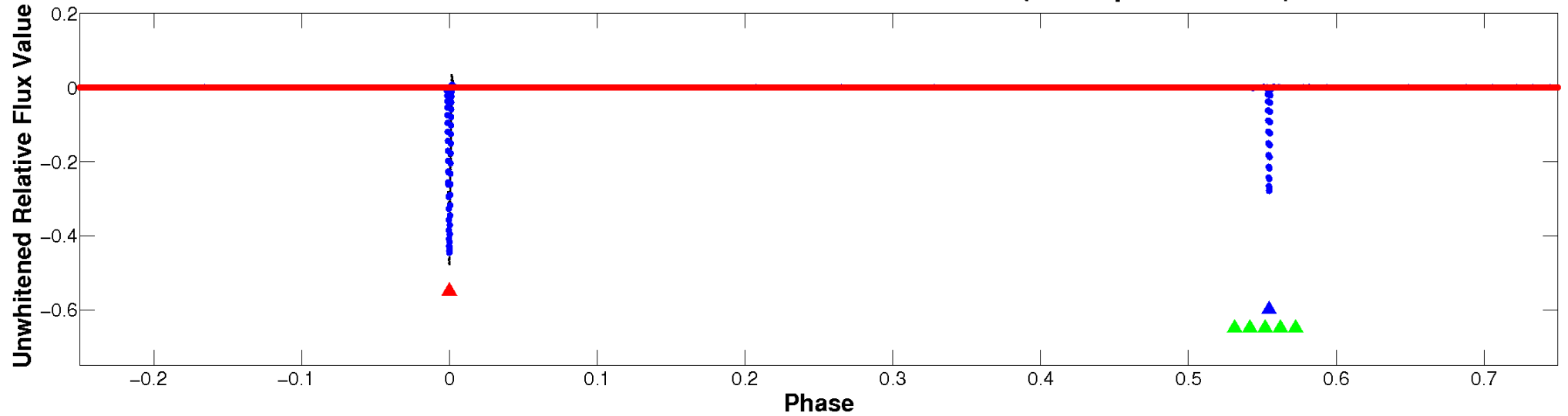
ALT Odd/Even

TCE 011769146-01

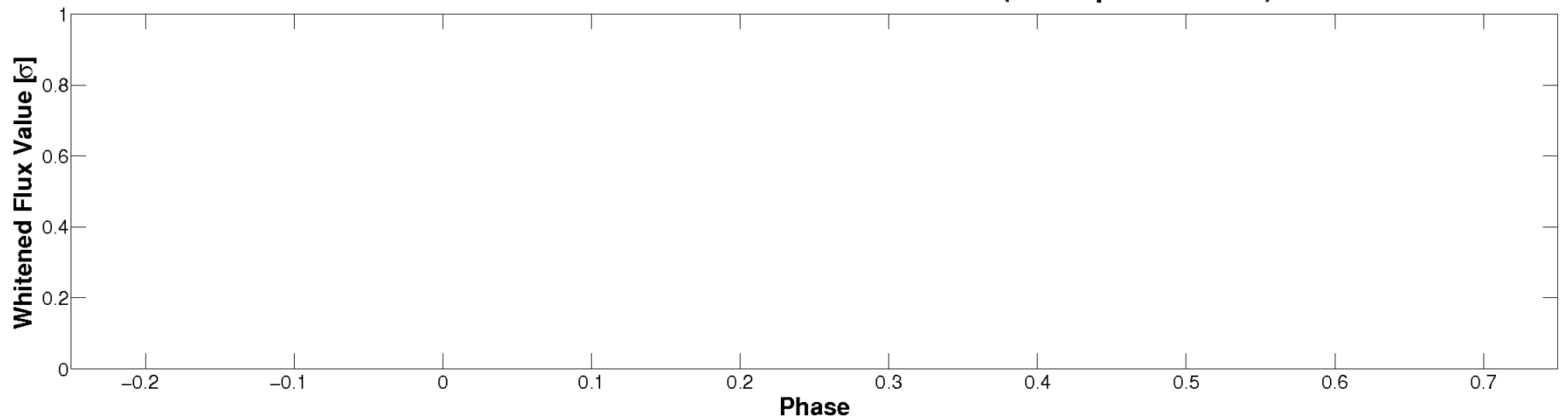


Non-Whitened Vs. Whitened Light Curve

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

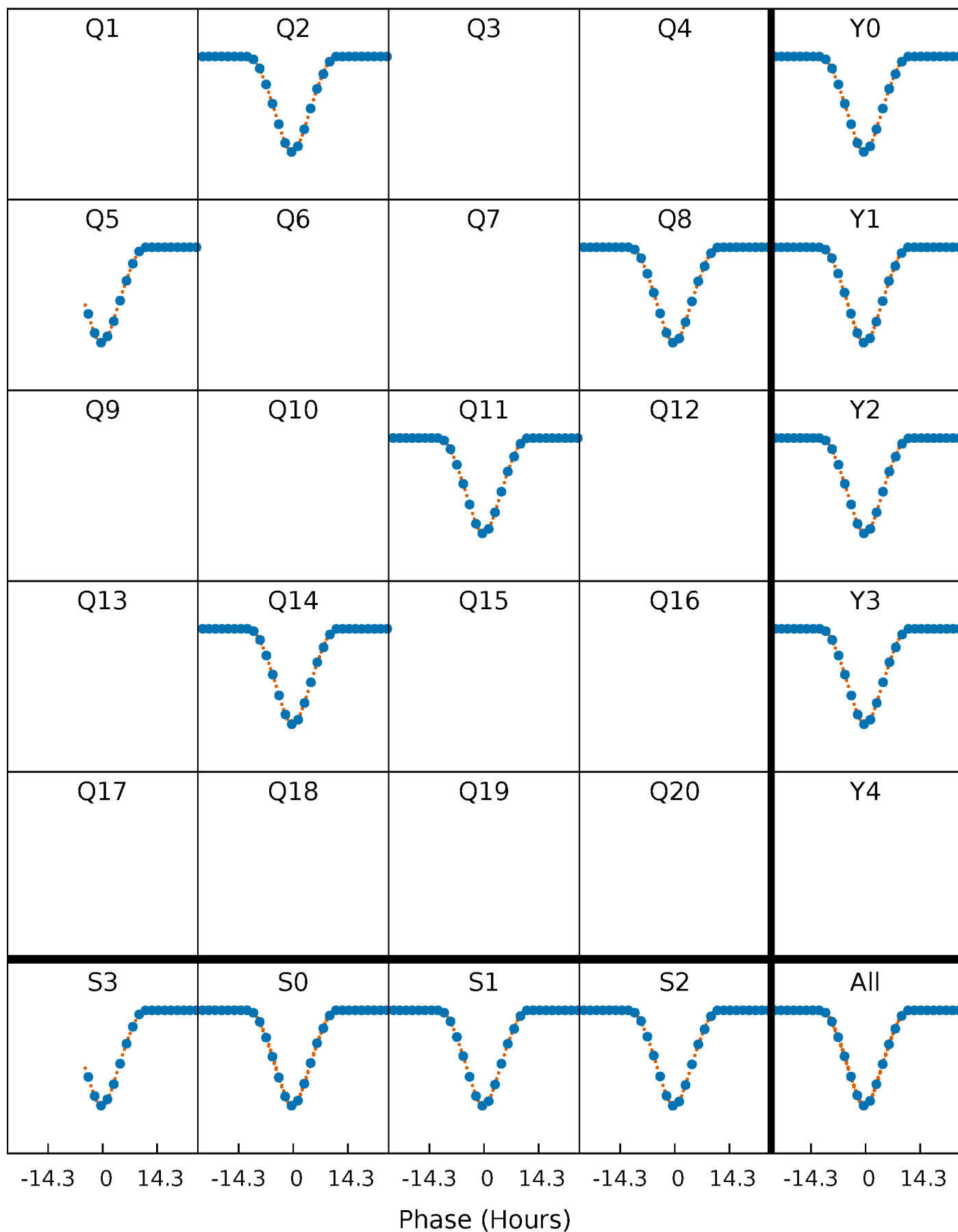


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



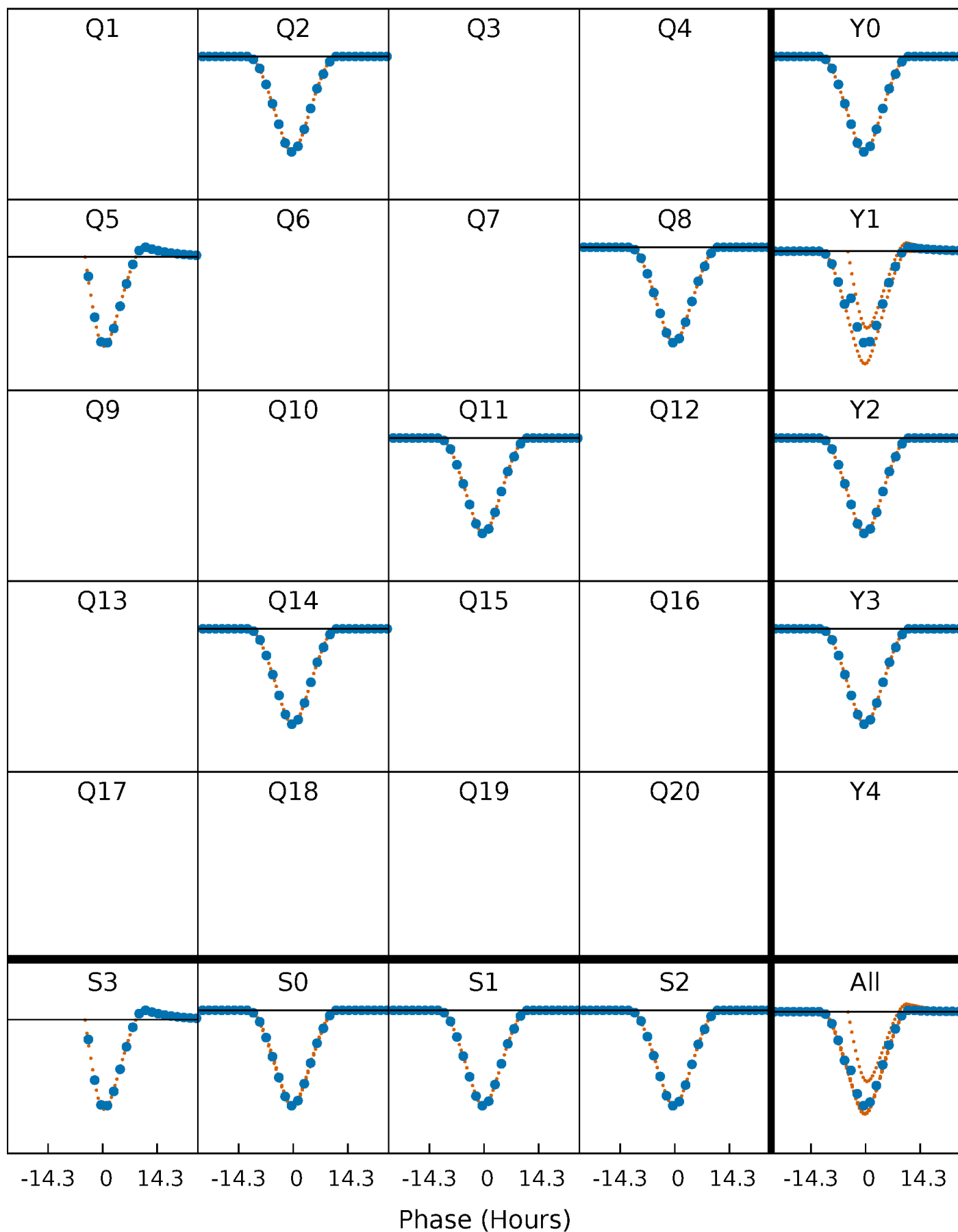
PDC Quarter-Phased Transit Curves

TCE 011769146-01 P=282.963939 Days $T_0=193.513226$ (BKJD)



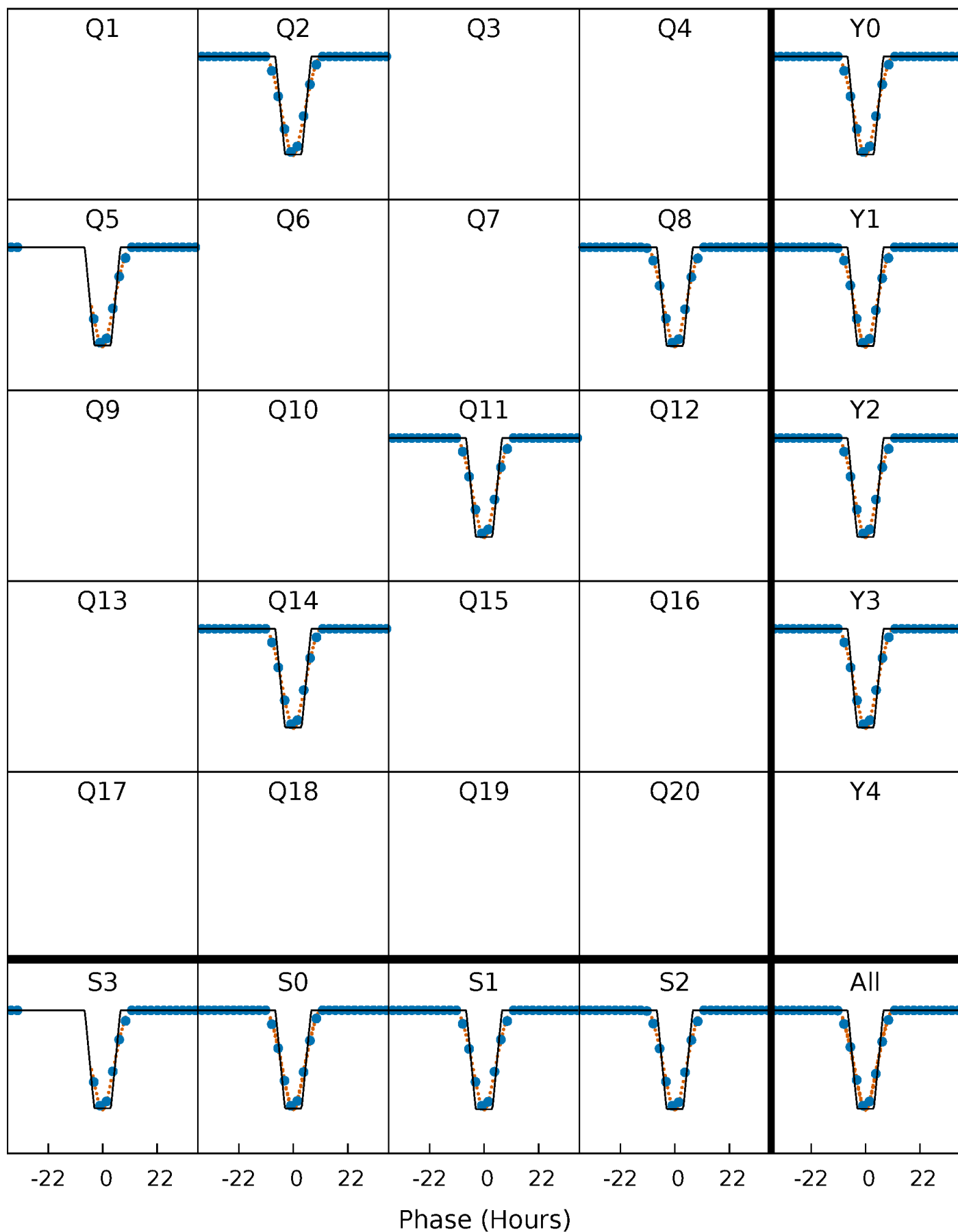
DV Quarter-Phased Transit Curves

TCE 011769146-01 P=282.963939 Days $T_0=193.513226$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

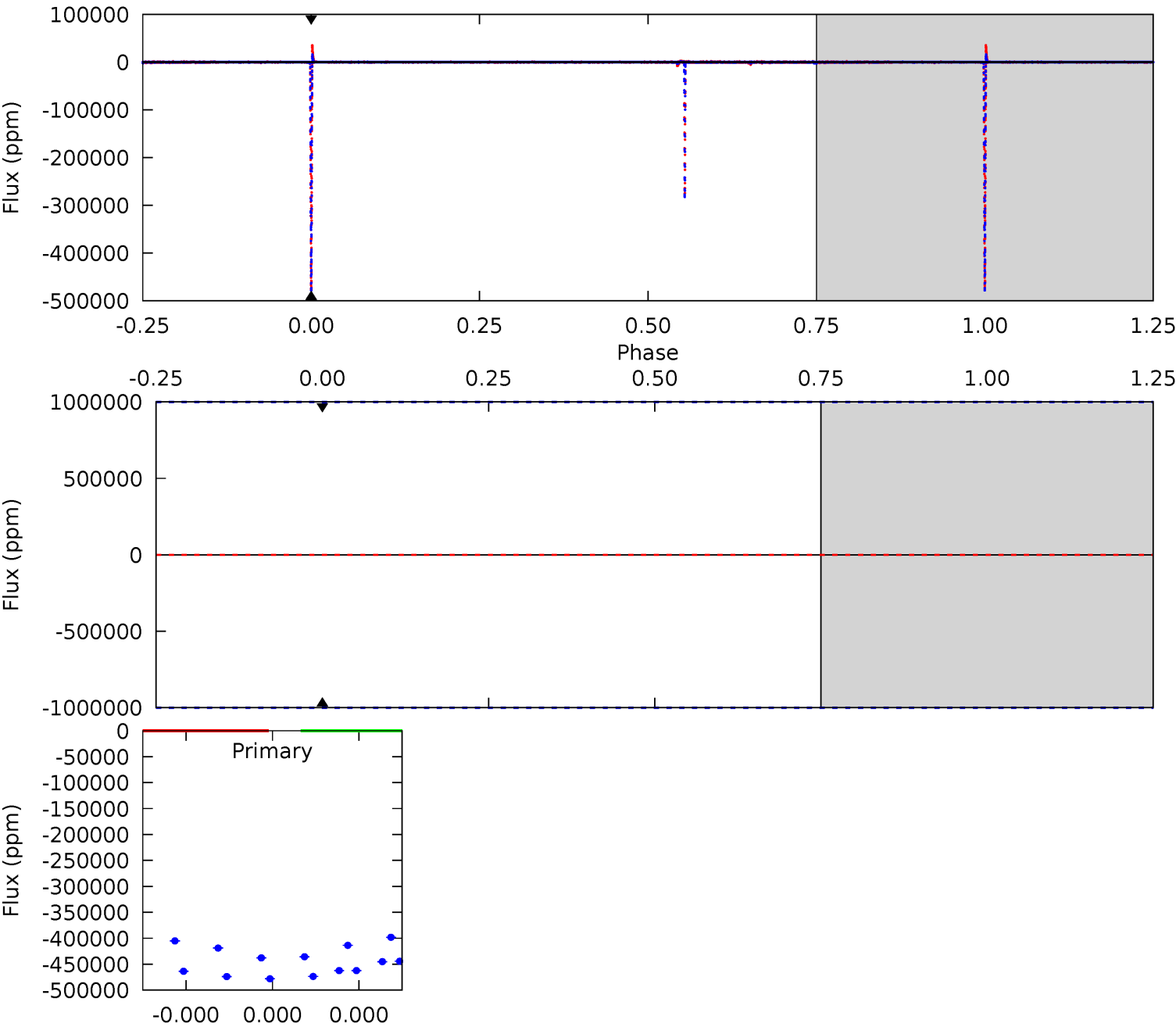
TCE 011769146-01 P=282.963939 Days $T_0=193.506057$ (BKJD)



DV Model-Shift Uniqueness Test

011769146-01, P = 282.963939 Days, E = 193.513226 Days

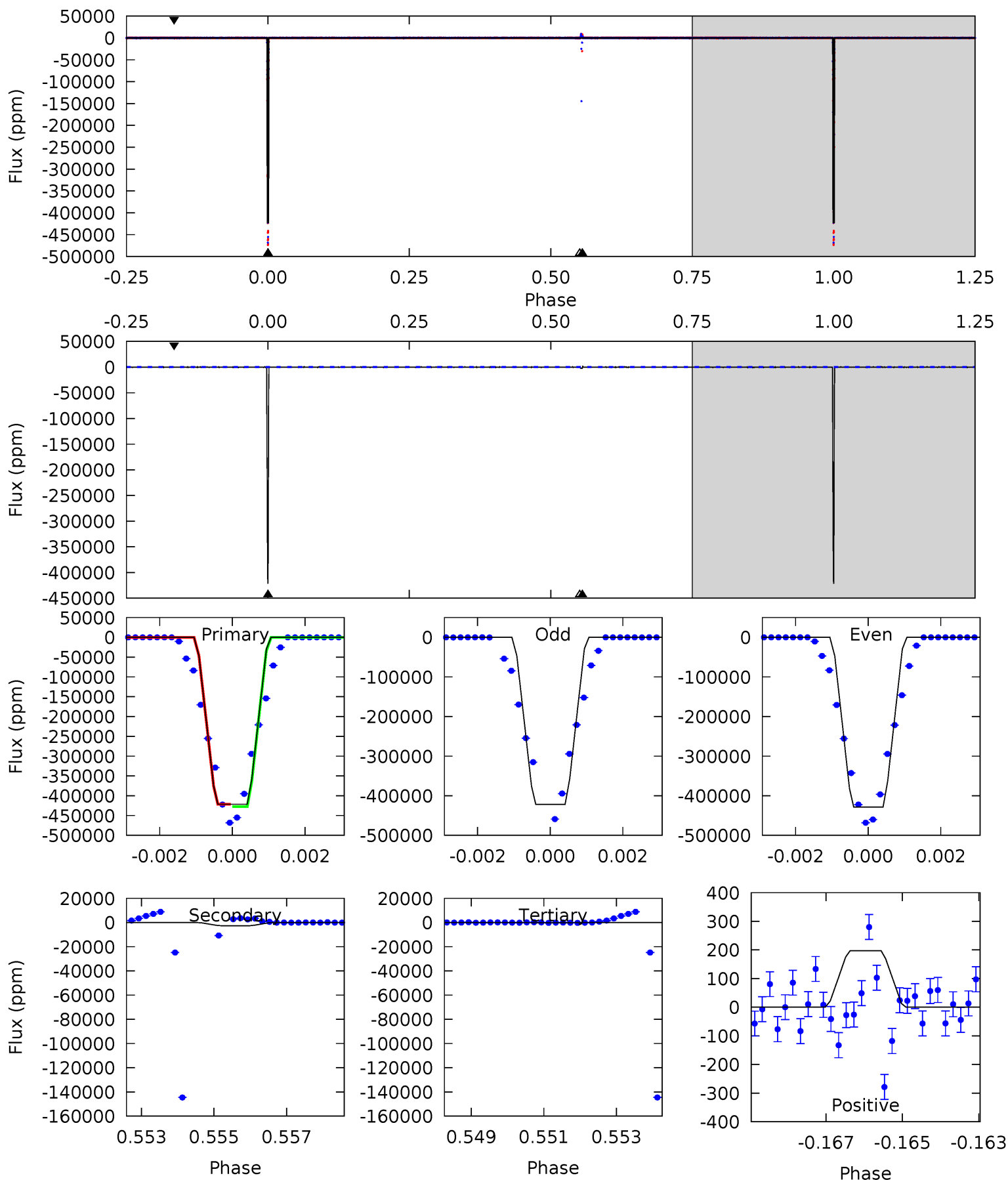
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011769146-01, P = 282.963939 Days, E = 193.506057 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13748	84.8	5.95	6.44	5.31	3.07	3.85	13742	13741	78.9	78.4	77.7	1.00	0.00	28.8



Stellar Parameters For KIC 011769146

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5999^{+162}_{-217}	$4.494^{+0.054}_{-0.216}$	$-0.060^{+0.250}_{-0.300}$	$0.959^{+0.300}_{-0.100}$	$1.045^{+0.129}_{-0.142}$	$1.670^{+0.461}_{-0.861}$
	+3%/-4%	+1%/-5%	+417%/-500%	+31%/-10%	+12%/-14%	+28%/-52%
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 011769146-01 / KOI 6089.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$52.33^{+12.36}_{-12.21}$	398^{+27}_{-20}	2650^{+2474}_{-7558}	315^{+16255}_{-14395}
Alt.	-2601 ± 31	$75.69^{+15.69}_{-13.26}$	399^{+29}_{-21}	2488^{+104}_{-91}	180^{+79}_{-54}

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 $A_{obs} \gg 1.0$

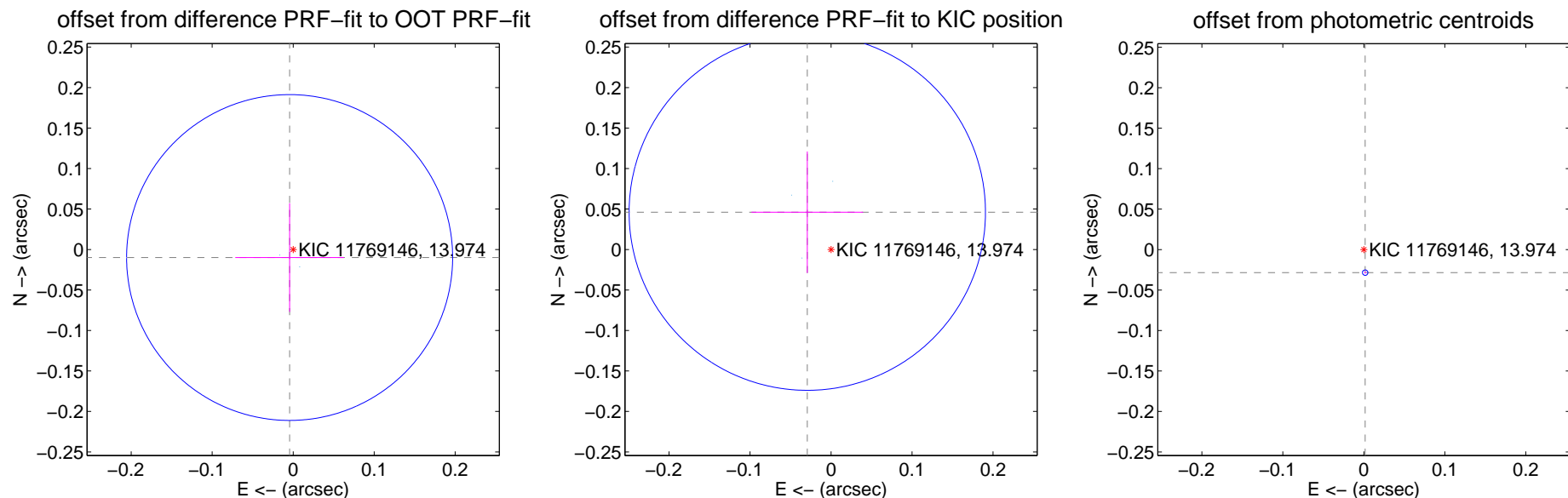
DV Centroid Data

Supplemental centroid analysis for 011769146-01. Kepler magnitude: 13.97. Transit SNR -1.00

There are 3 quarters with good PRF difference image offsets

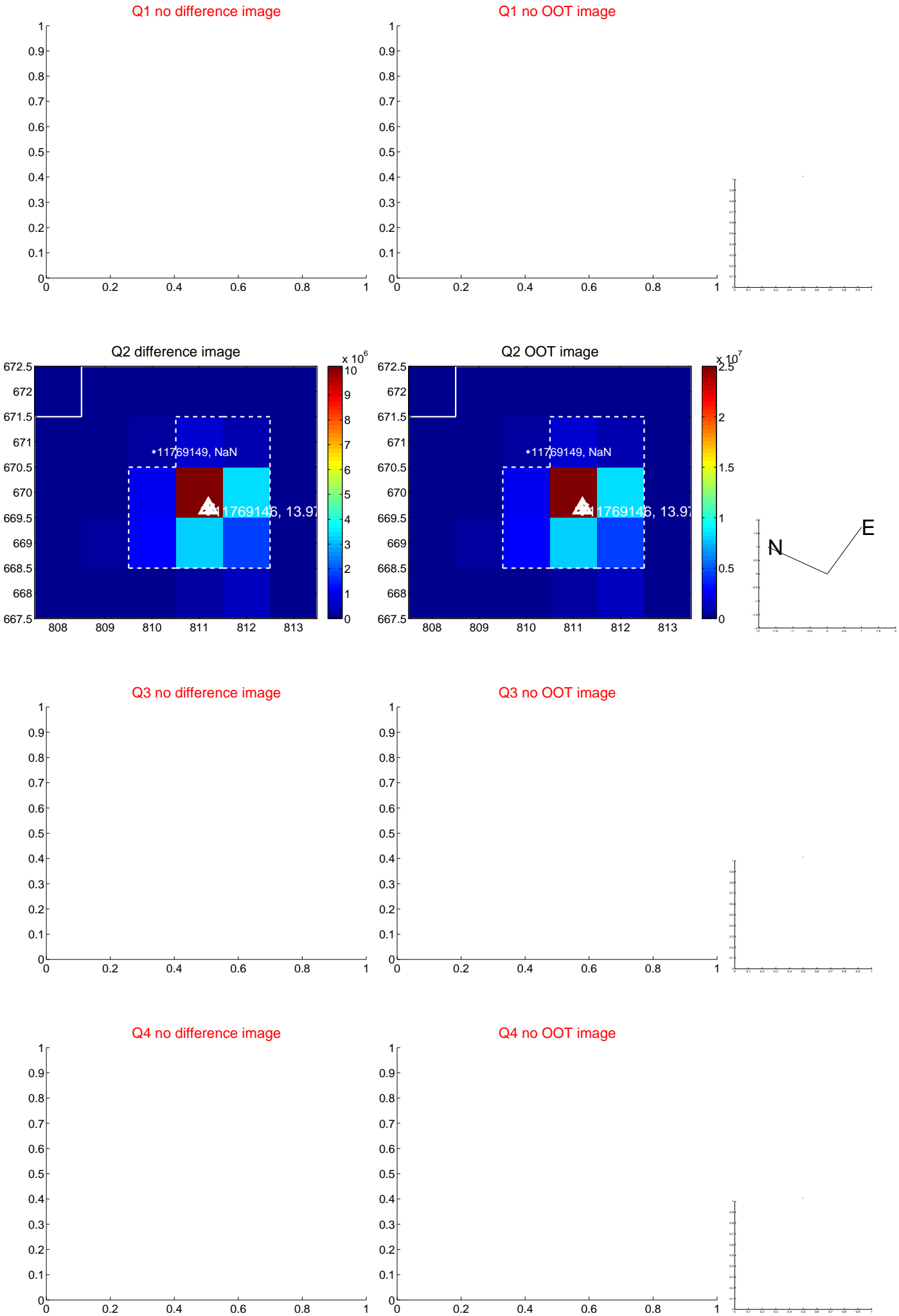
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.011 ± 0.067	0.16	0.004 ± 0.067	-0.010 ± 0.067
PRF-fit source offset from KIC position	0.055 ± 0.073	0.74	0.029 ± 0.069	0.046 ± 0.075
photometric centroid source offset	0.03 ± 0.00	25.49	-0.00 ± 0.00	-0.03 ± 0.00

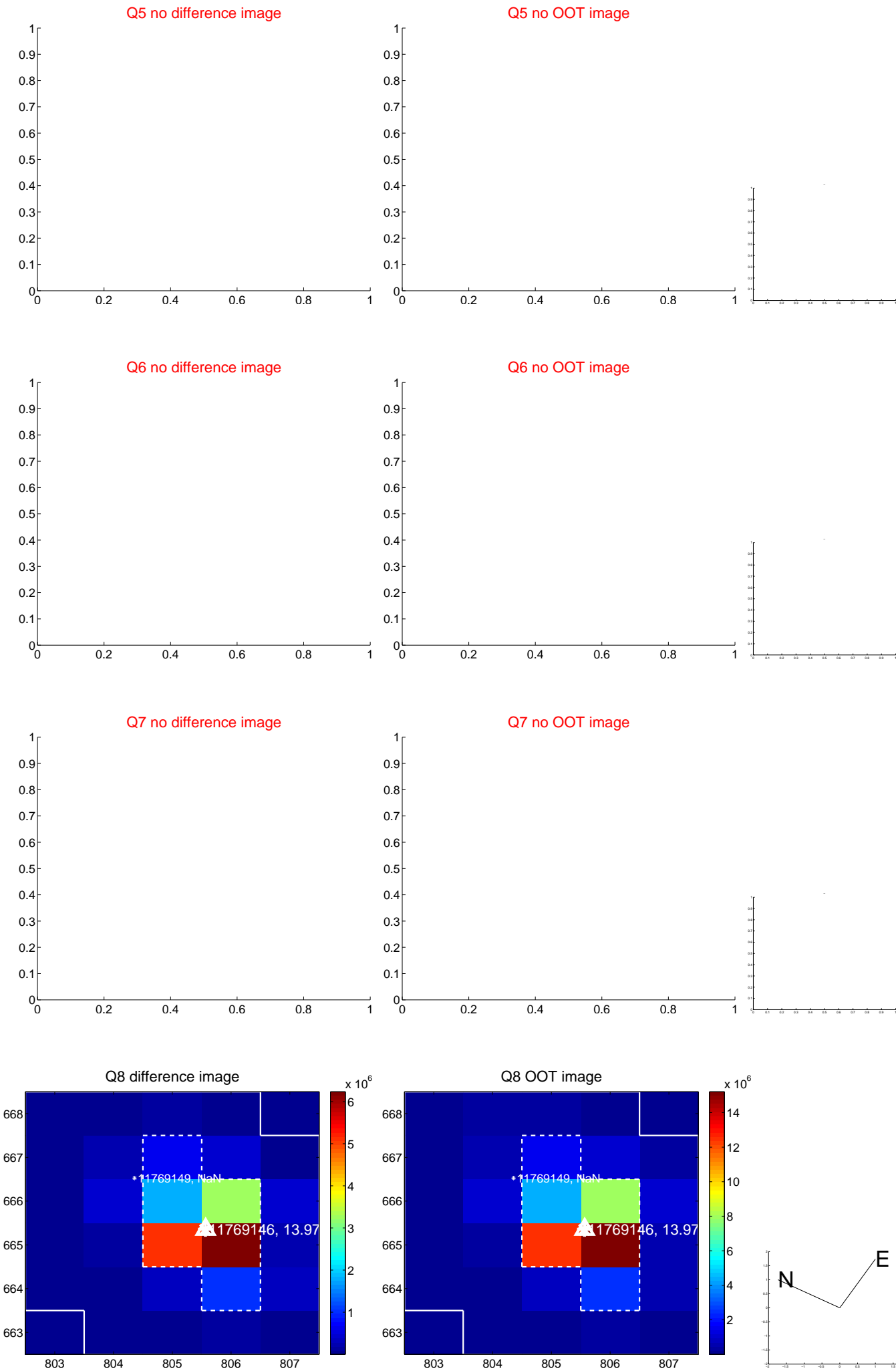


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

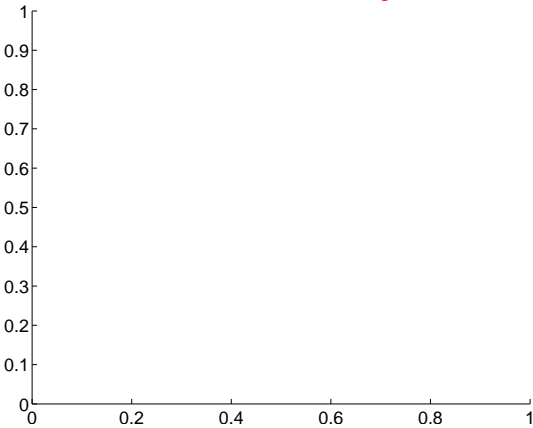


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

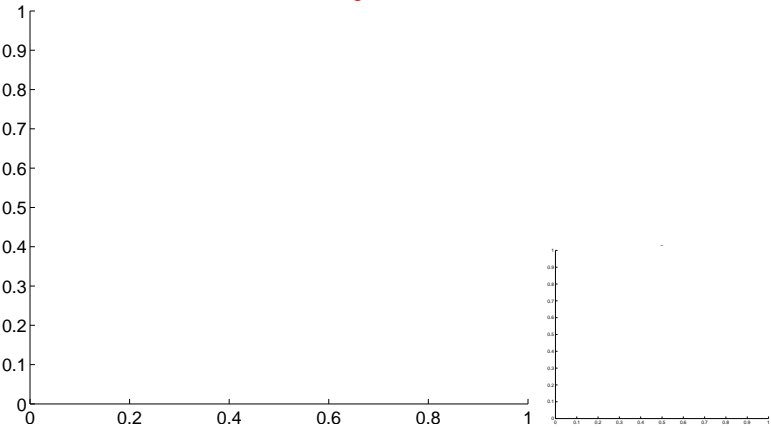


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

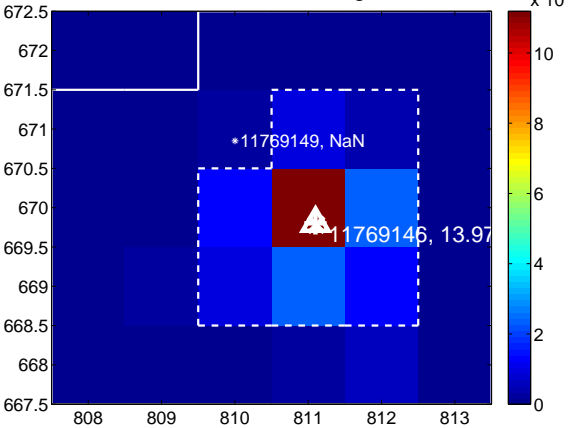
Q13 no difference image



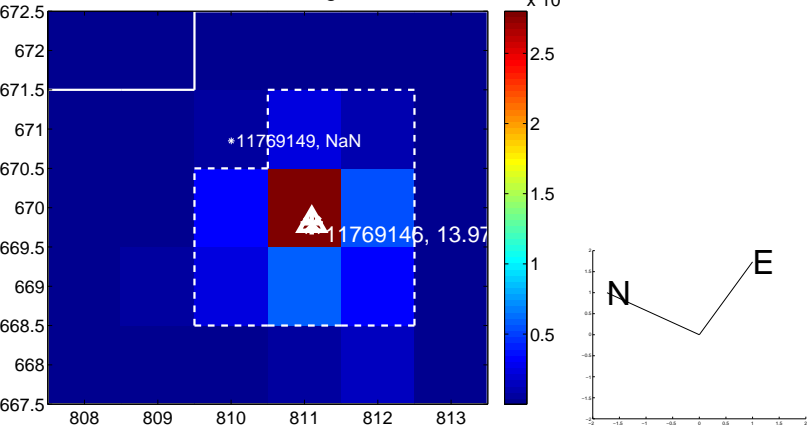
Q13 no OOT image



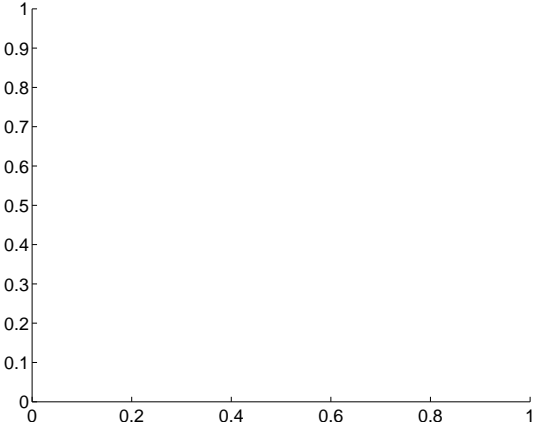
Q14 difference image



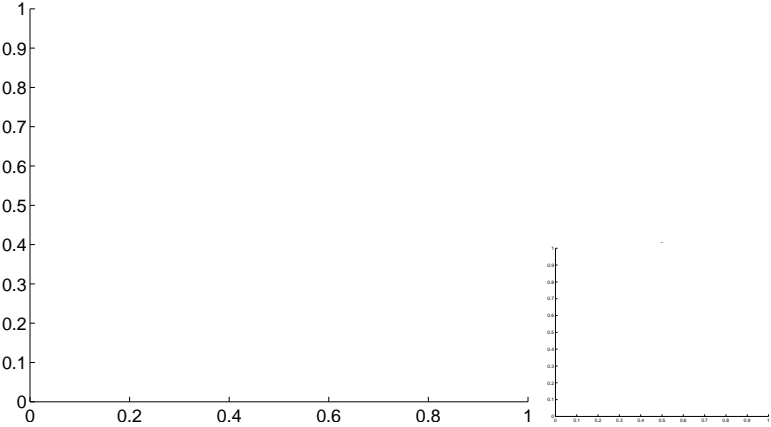
Q14 OOT image



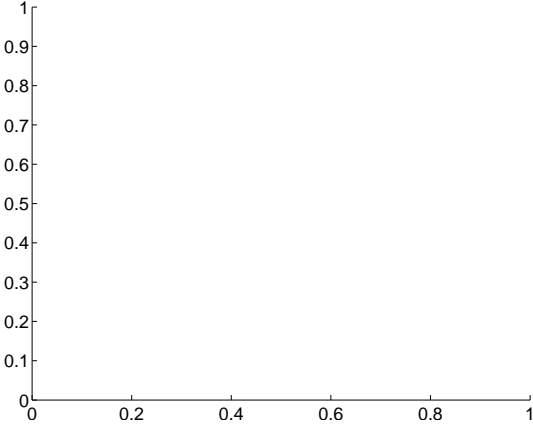
Q15 no difference image



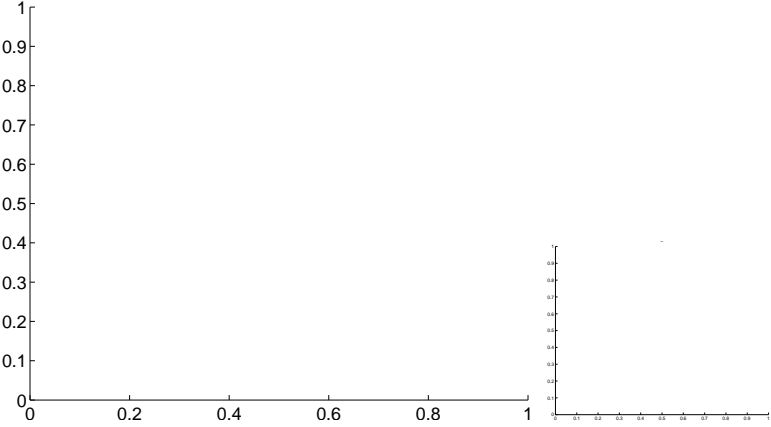
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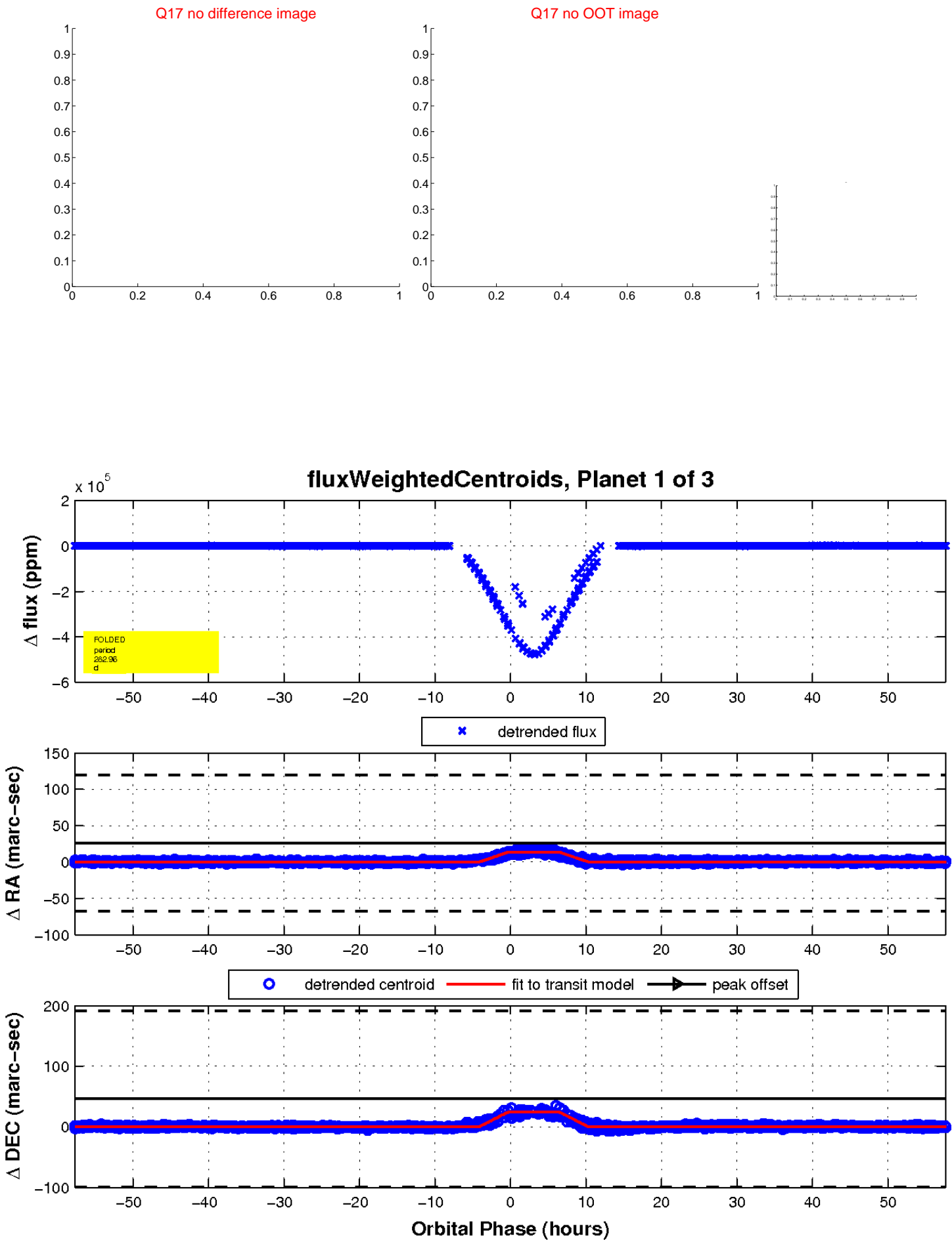
Q16 no difference image



Q16 no OOT image

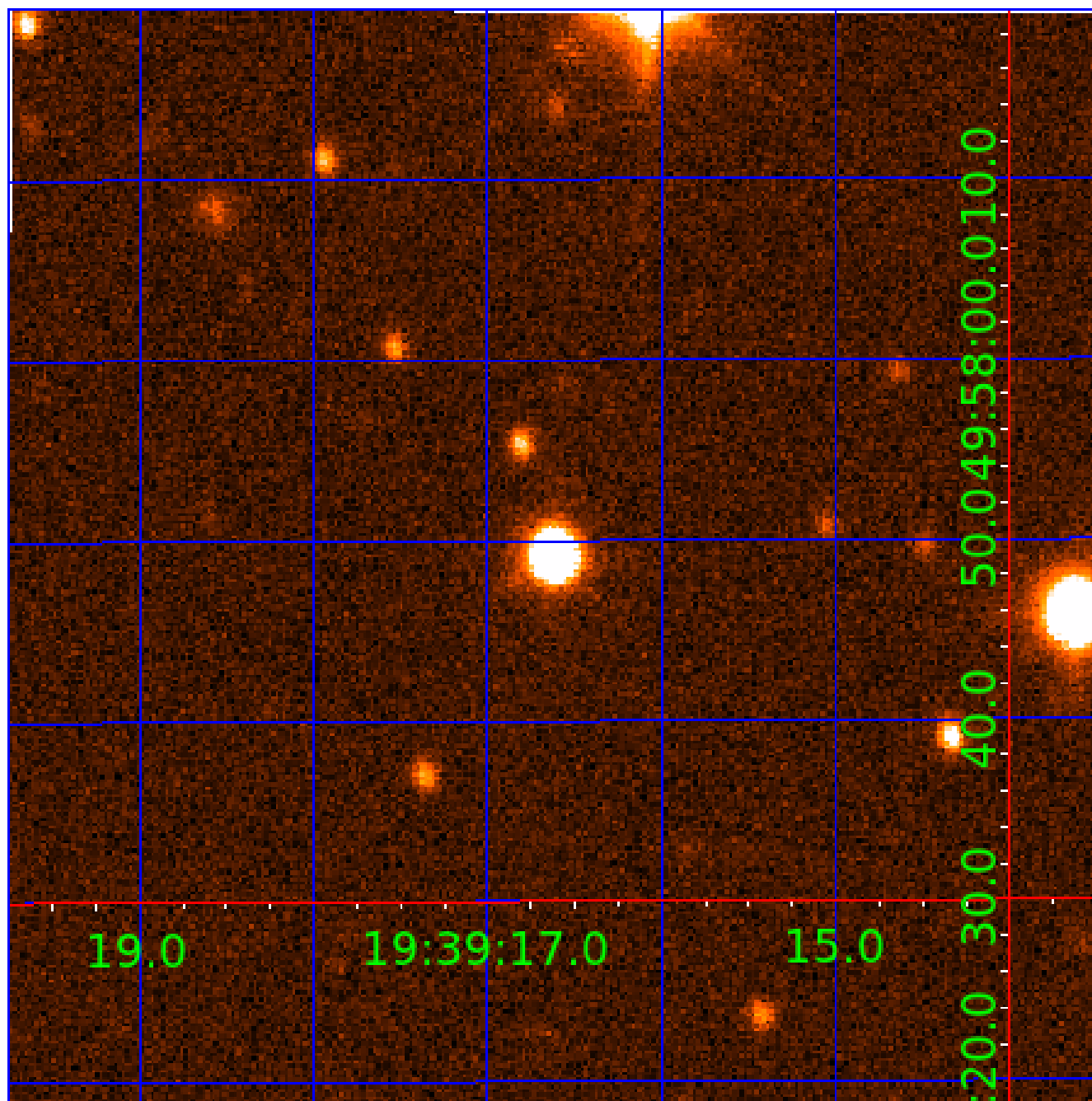


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011769146

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})
011769146-01	OBS	6089.01	282.963939	193.513226	477287.9	12.500	11276.9	-1.0	0.96	5999	49.88	1.46
011769146-02	OBS	No	282.963939	350.439561	281865.6	6.000	2023.5	-1.0	0.96	5999	29.32	1.46
011769146-03	OBS	No	280.045019	355.528220	657.1	22.595	28.7	8.9	0.96	5999	2.50	1.48

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011769146-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_ALT—HAS_SEC_TCE—CENT_NOFITS
011769146-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_NOFITS
011769146-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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.

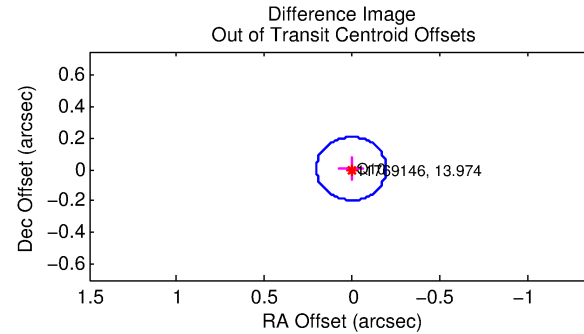
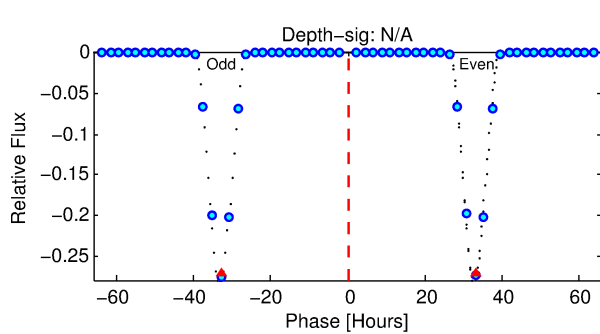
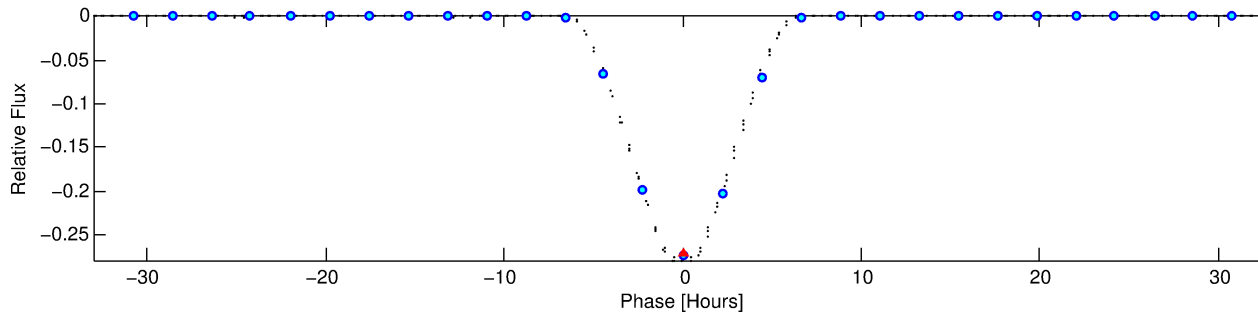
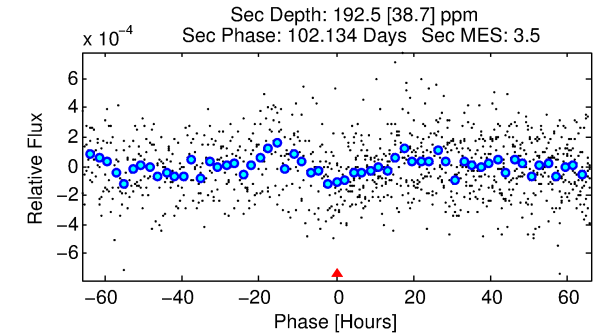
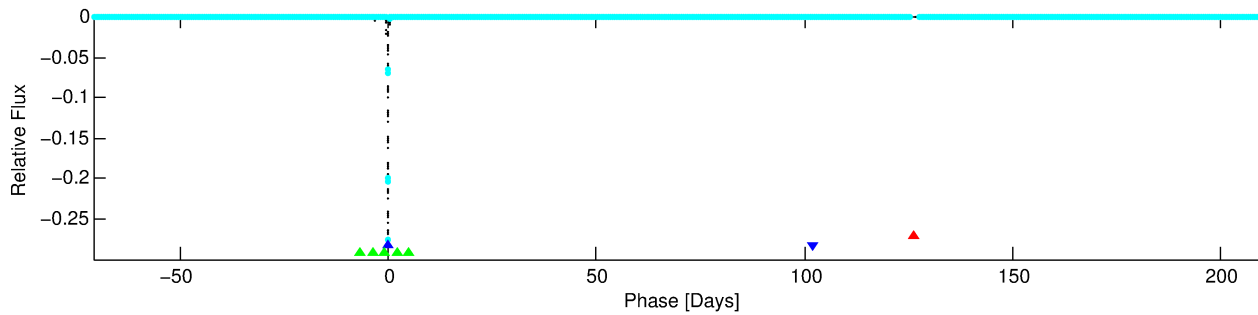
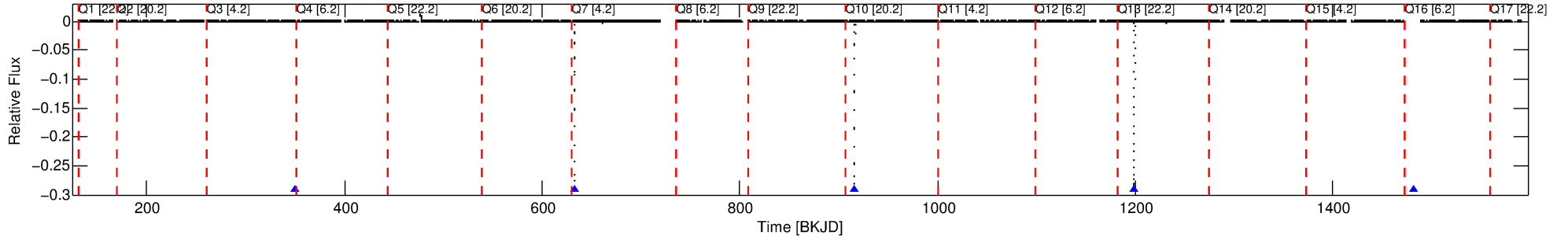
Ephemeris Match Information For 011769146-02

No Significant Match Found

DV One-Page Summary

KIC: 11769146 Candidate: 2 of 3 Period: 282.964 d
KOI: K06089 Corr: No Ephemeris Match

Kp: 13.97 R*: 0.96 Rs Teff: 5999.0 K Logg: 4.49 Fe/H: -0.060



TPS TCE Results:

Period = 282.96394 d
Epoch = 350.4396 BKJD

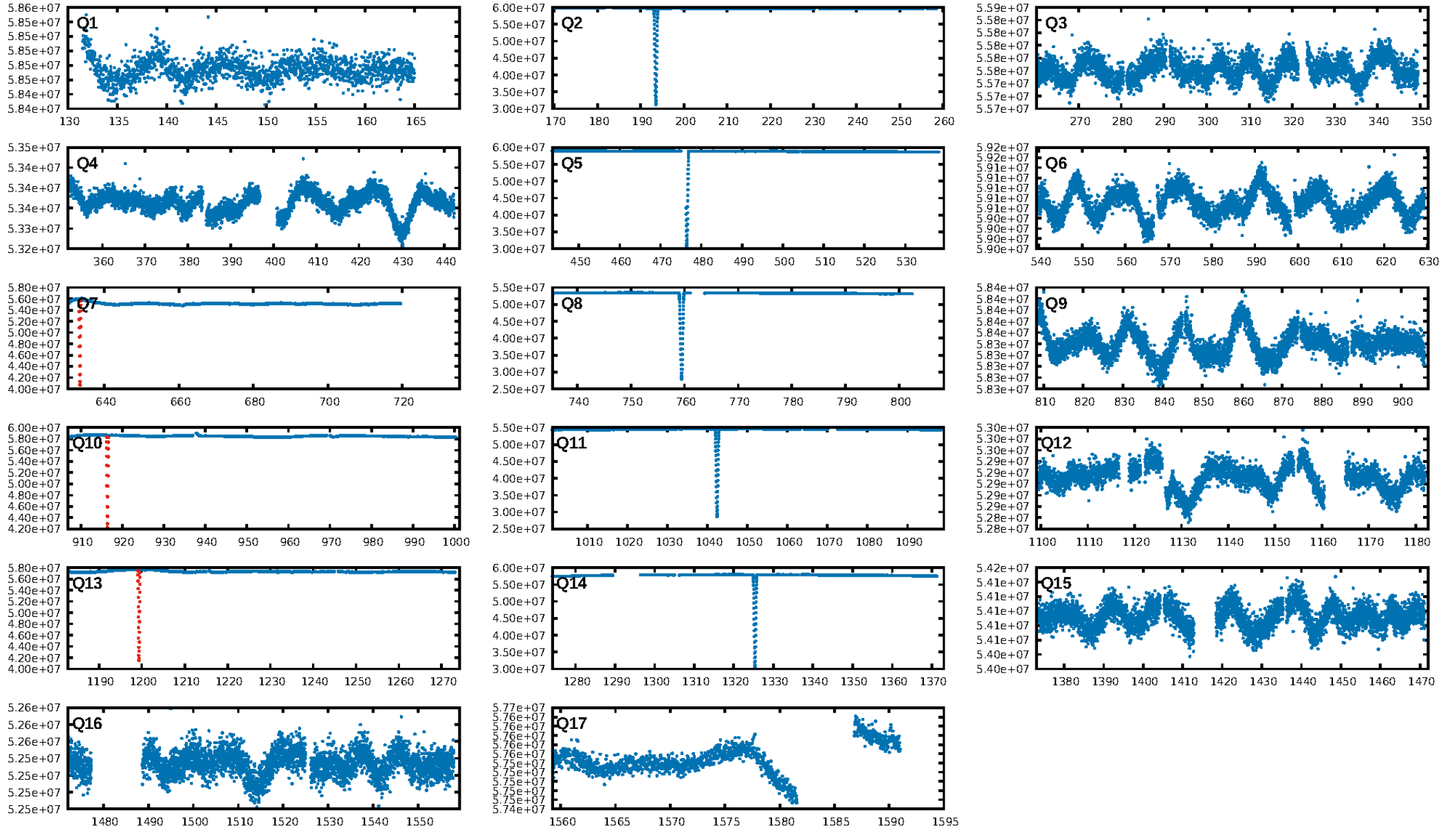
DV fit results are unavailable

DV Diagnostic Results:

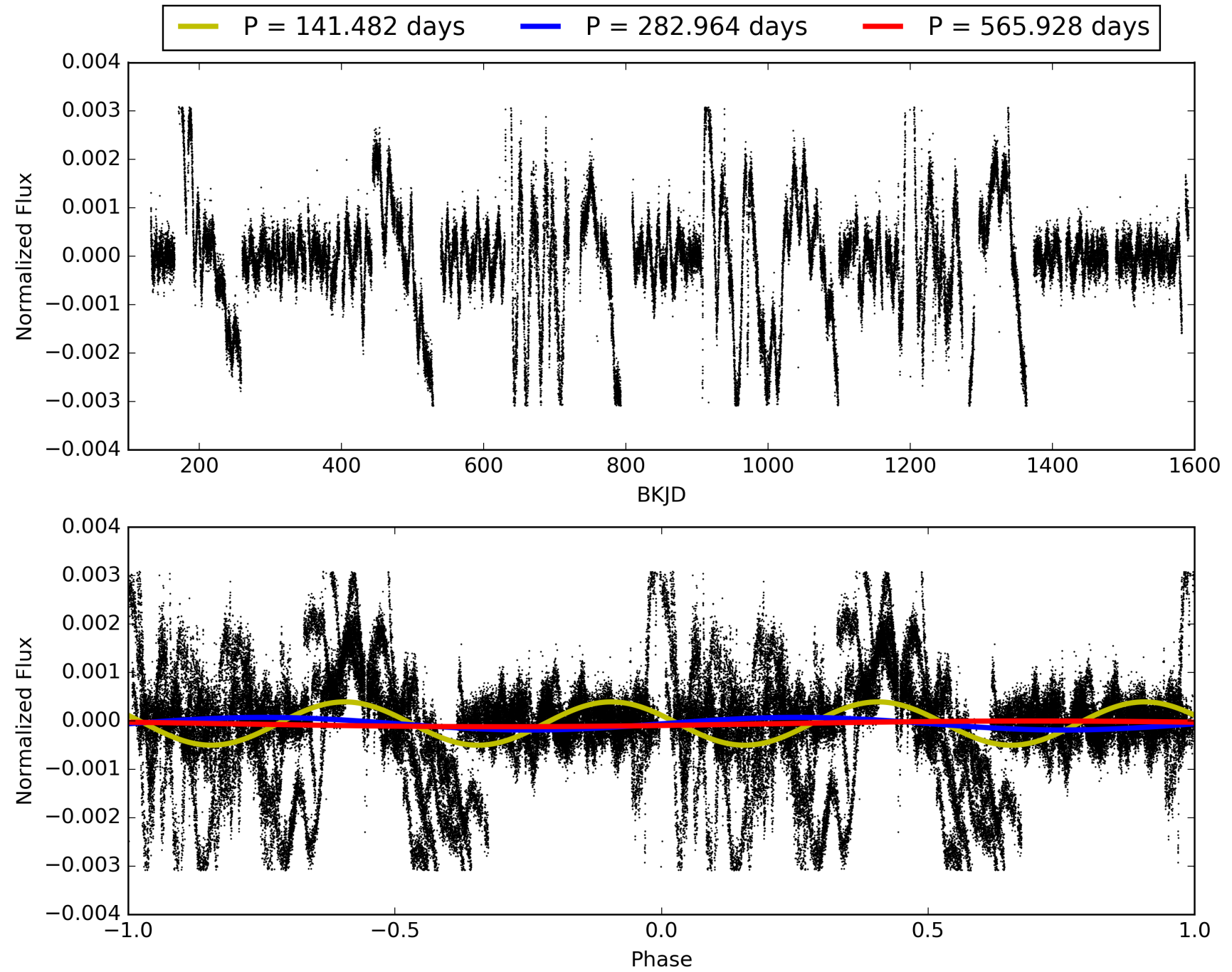
ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 2.589

Centroid-sig: 2.1%
Centroid-so: 0.028 arcsec [13.65 σ]
OotOffset-rm: 0.009 arcsec [0.13 σ]
KicOffset-rm: 0.104 arcsec [1.56 σ]
OotOffset-st: 1/0/0/0 [1]
KicOffset-st: 1/0/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 0.00 [0/1]

TCE 011769146-02, PDC Light Curves

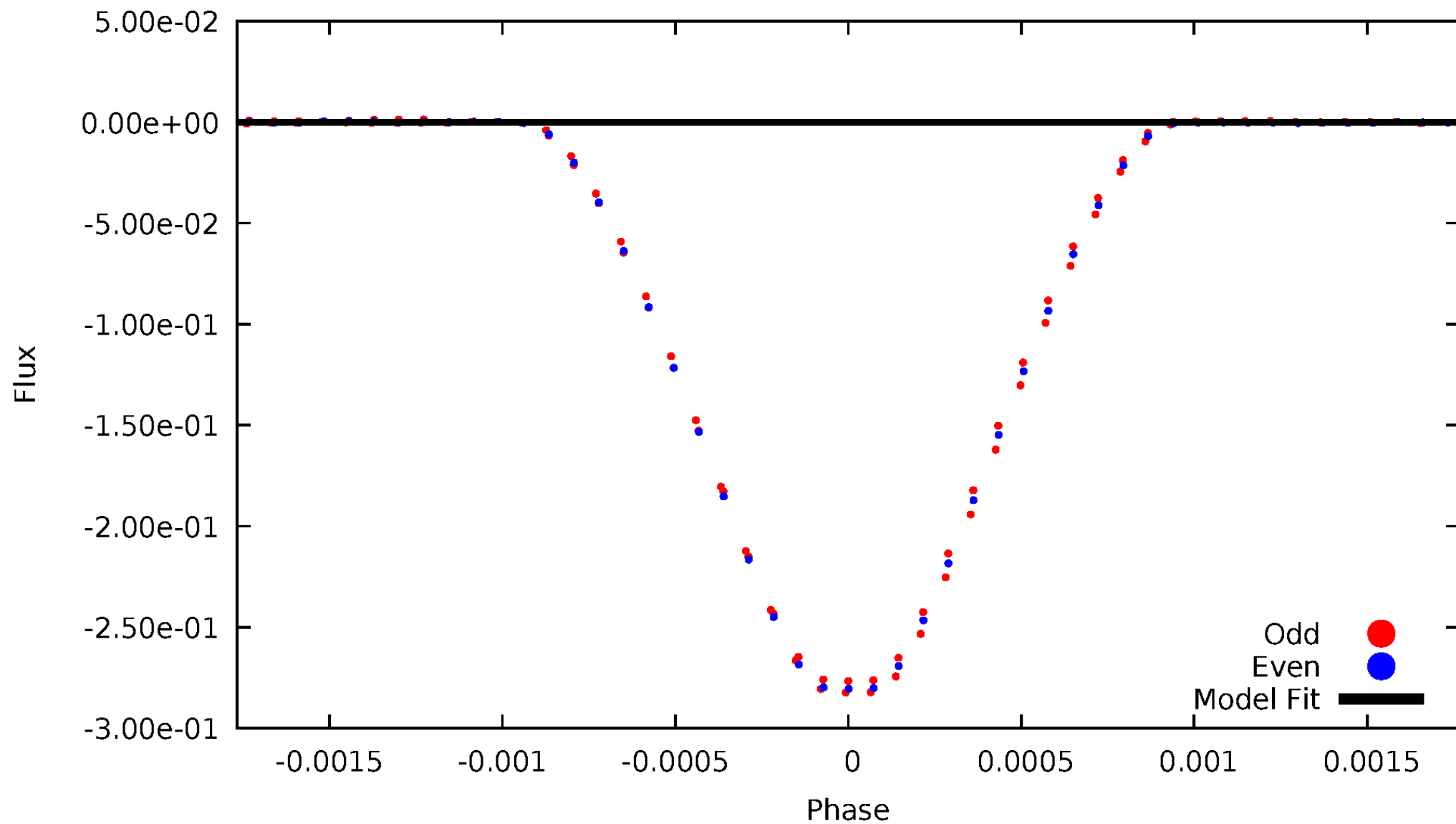


TCE 011769146-02



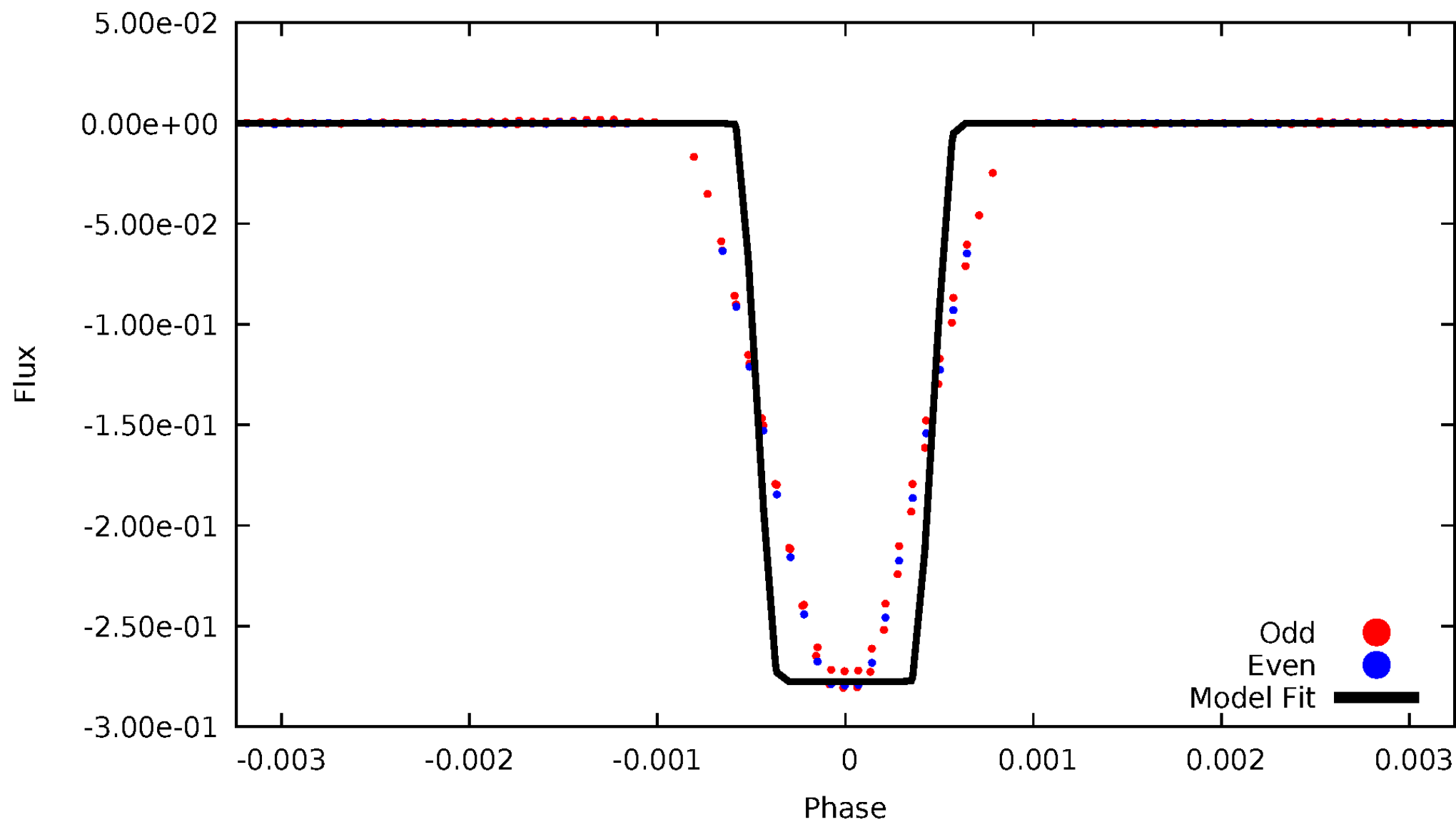
DV Odd/Even

TCE 011769146-02



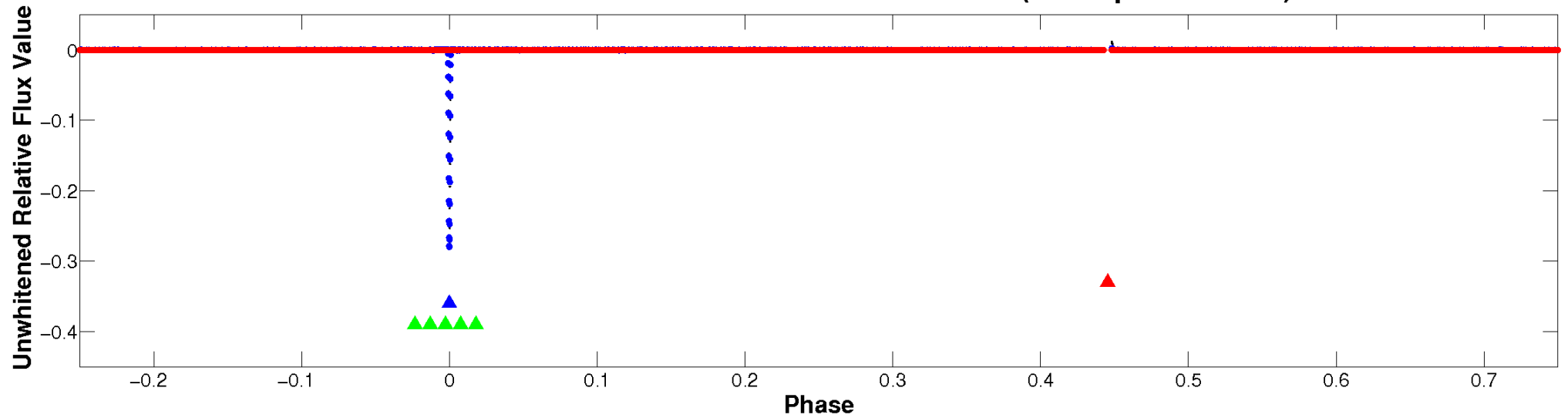
ALT Odd/Even

TCE 011769146-02

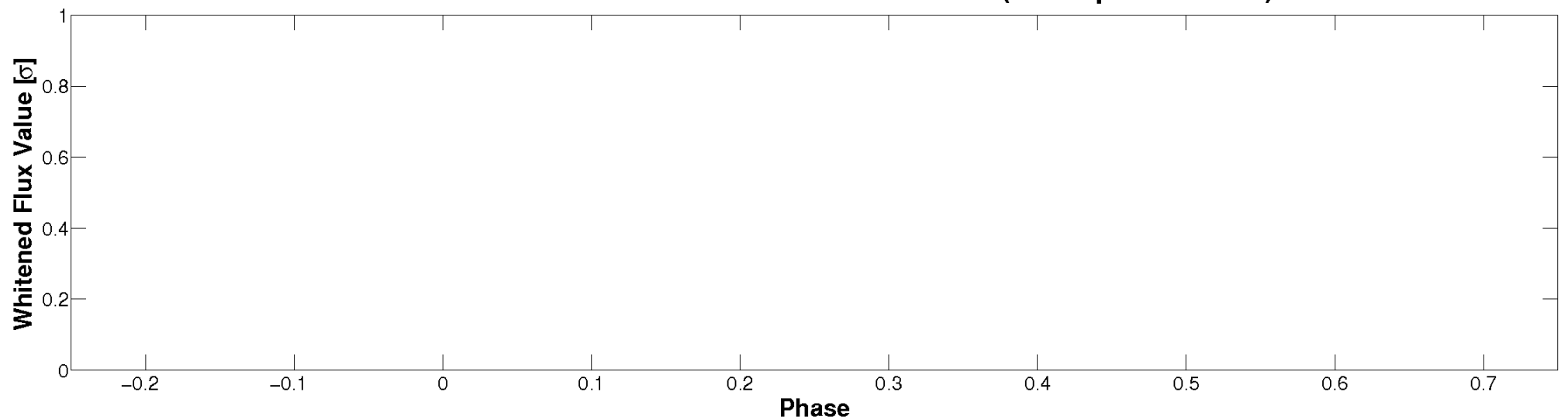


Non-Whitened Vs. Whitened Light Curve

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

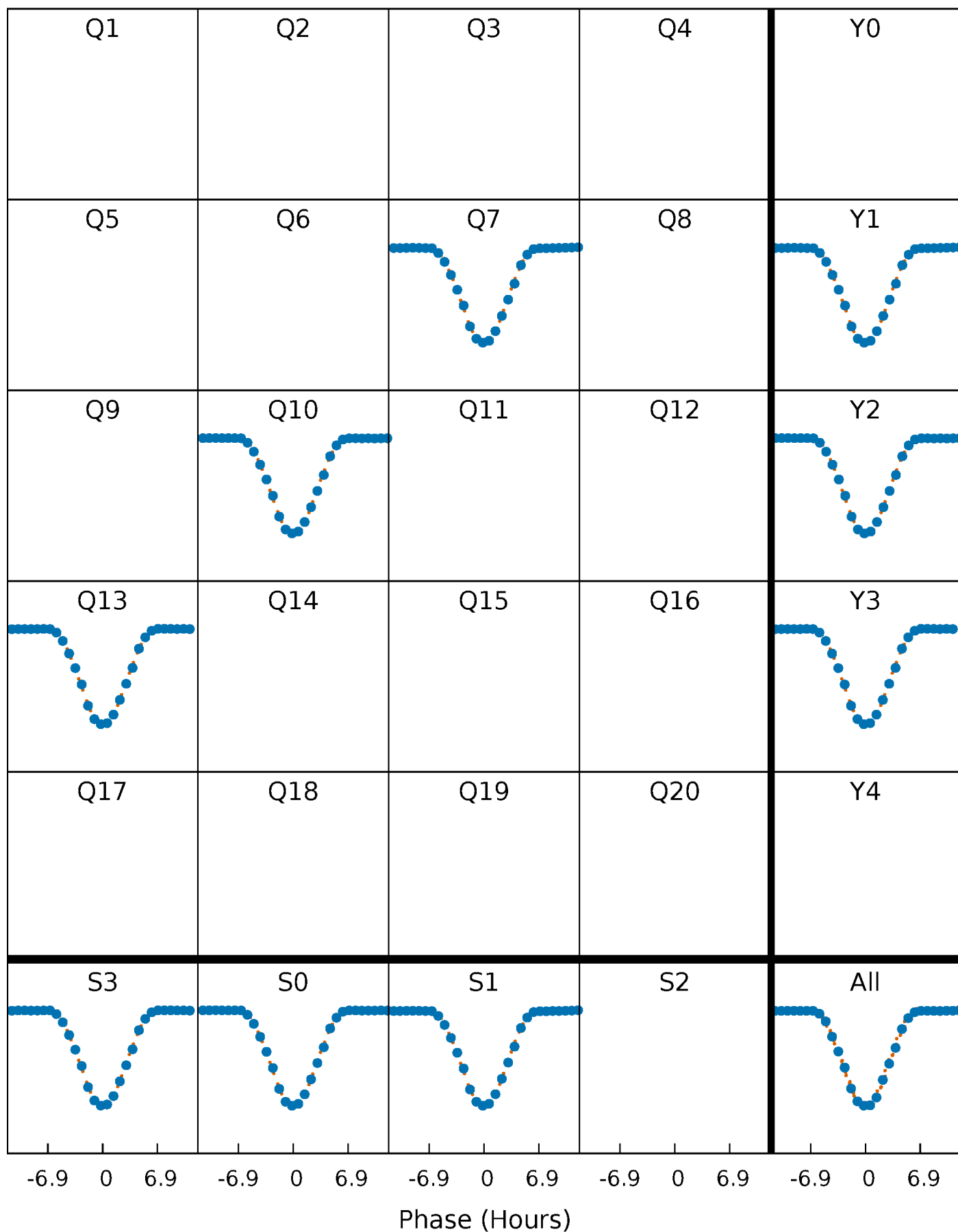


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



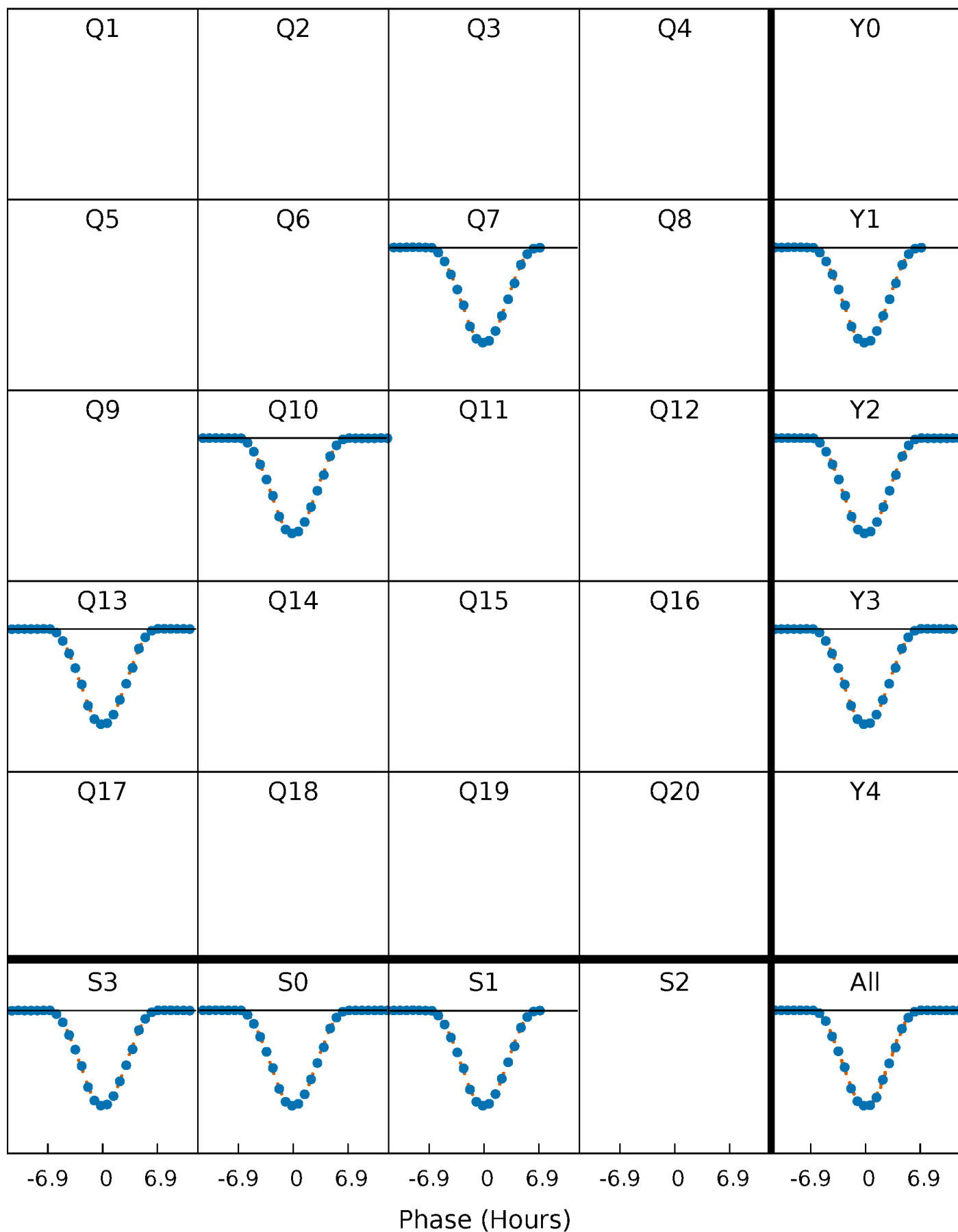
PDC Quarter-Phased Transit Curves

TCE 011769146-02 P=282.963939 Days $T_0=350.439561$ (BKJD)



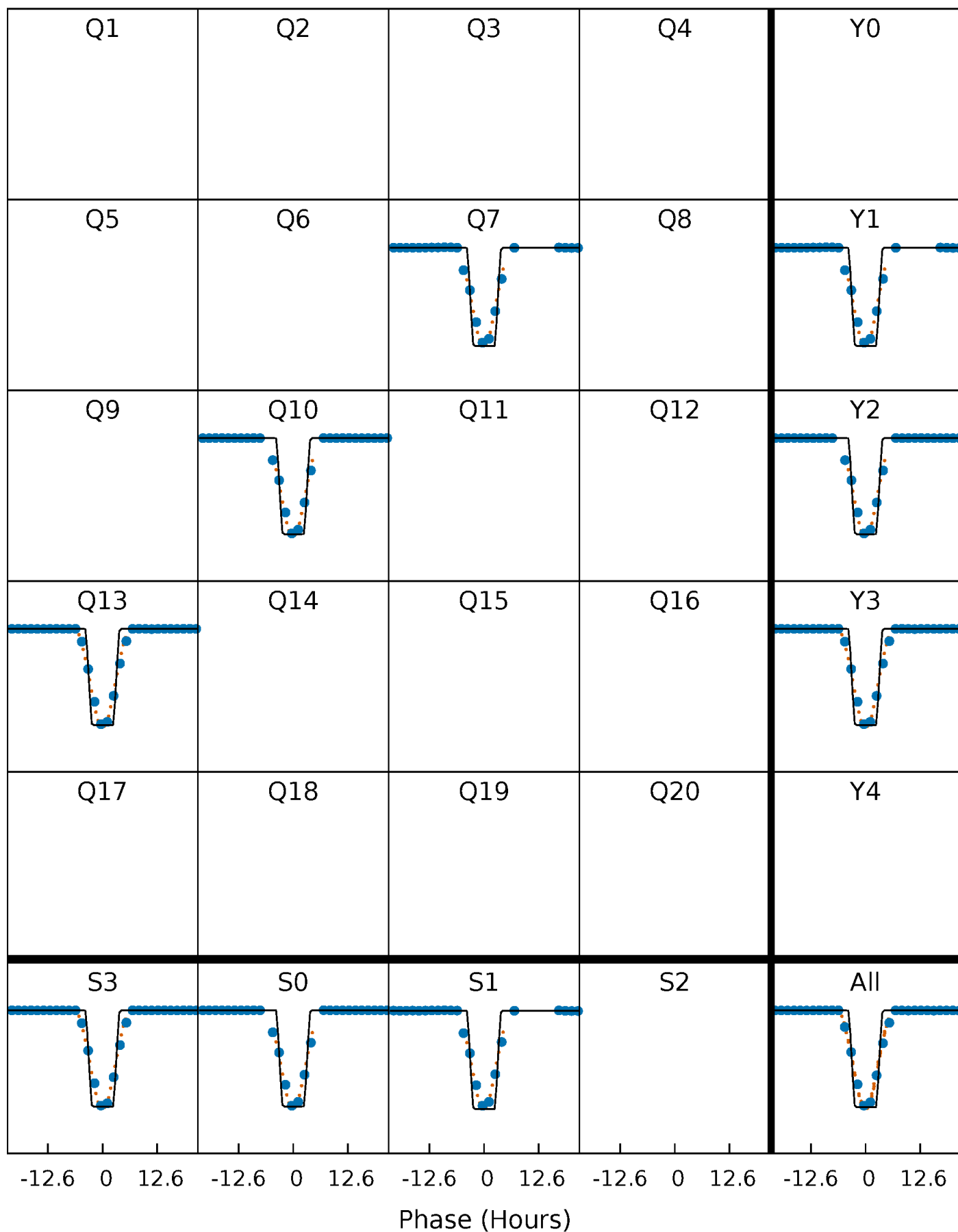
DV Quarter-Phased Transit Curves

TCE 011769146-02 P=282.963939 Days $T_0=350.439561$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

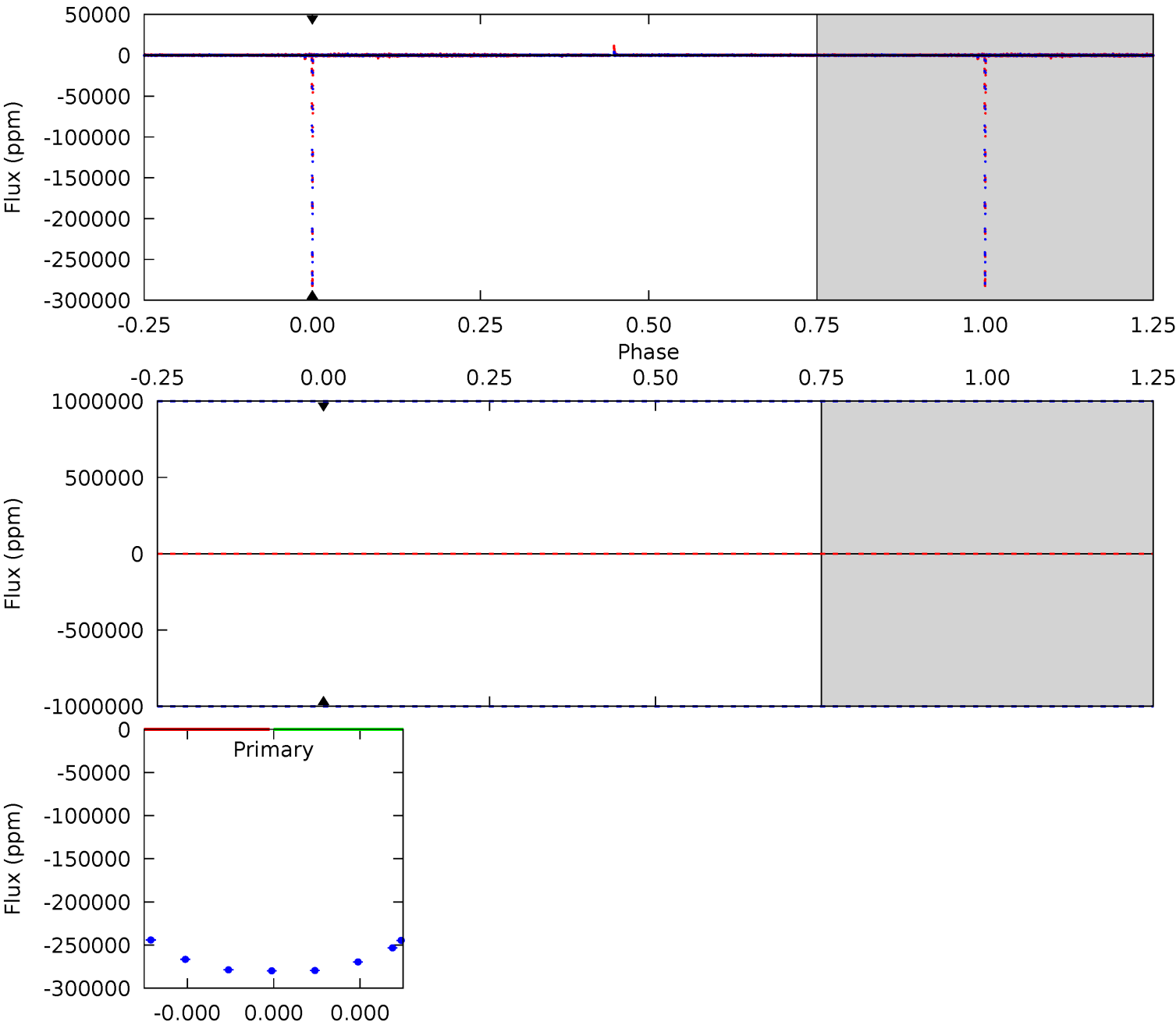
TCE 011769146-02 $P=282.963939$ Days $T_0=350.440707$ (BKJD)



DV Model-Shift Uniqueness Test

011769146-02, P = 282.963939 Days, E = 67.475622 Days

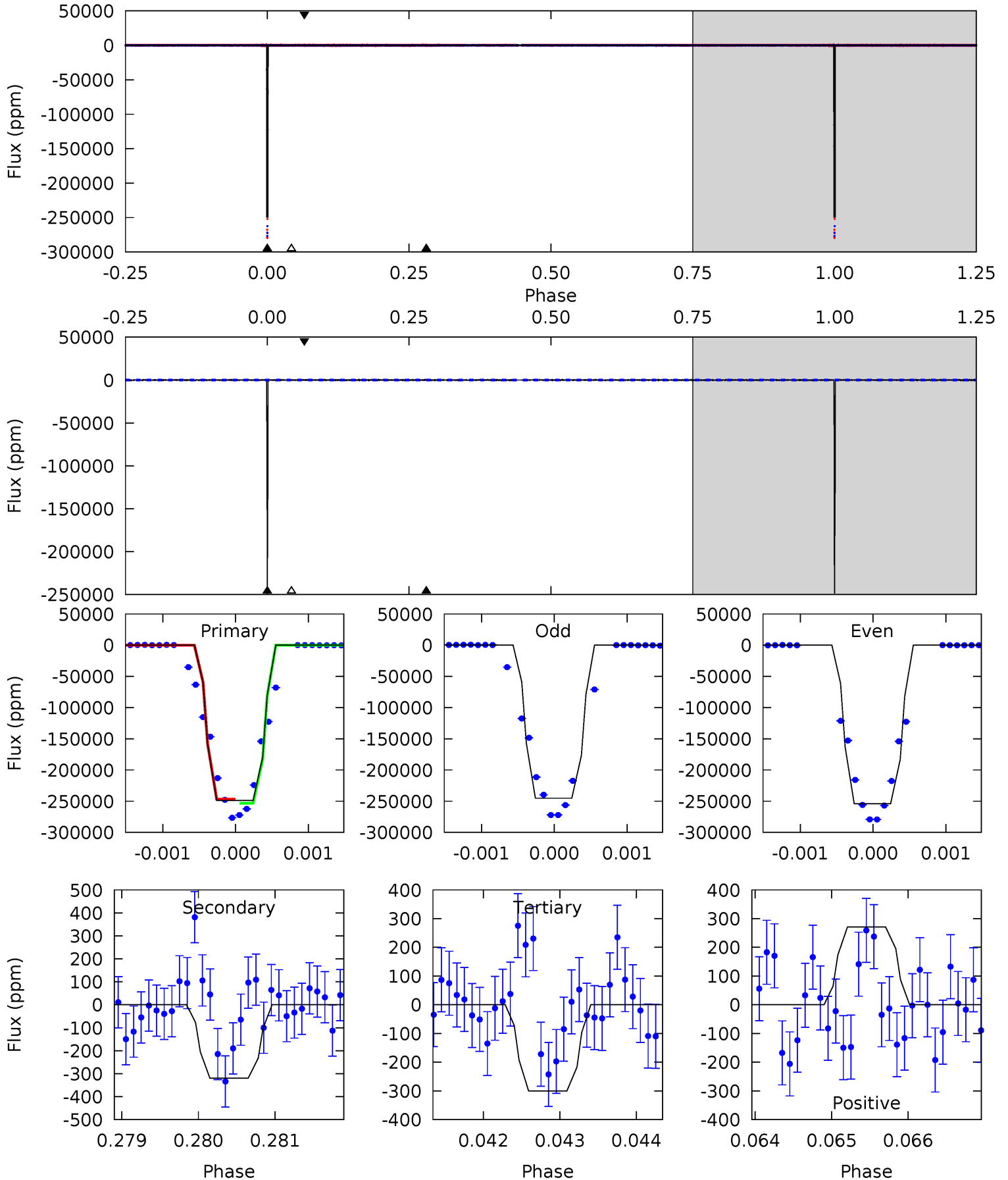
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011769146-02, P = 282.963939 Days, E = 67.476768 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5003	6.44	6.05	5.45	5.43	3.25	4.38	4997	4998	0.39	0.99	115.4	0.99	0.00	62.7



Stellar Parameters For KIC 011769146

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5999^{+162}_{-217}	$4.494^{+0.054}_{-0.216}$	$-0.060^{+0.250}_{-0.300}$	$0.959^{+0.300}_{-0.100}$	$1.045^{+0.129}_{-0.142}$	$1.670^{+0.461}_{-0.861}$
	+3%/-4%	+1%/-5%	+417%/-500%	+31%/-10%	+12%/-14%	+28%/-52%
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 011769146-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$30.95^{+12.14}_{-10.99}$	399^{+30}_{-18}	-3001^{+9669}_{-3359}	$-884.618^{+50784.983}_{-42413.309}$
Alt.	-320 ± 50	$57.72^{+13.35}_{-12.90}$	399^{+27}_{-19}	2083^{+116}_{-88}	38^{+25}_{-14}

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

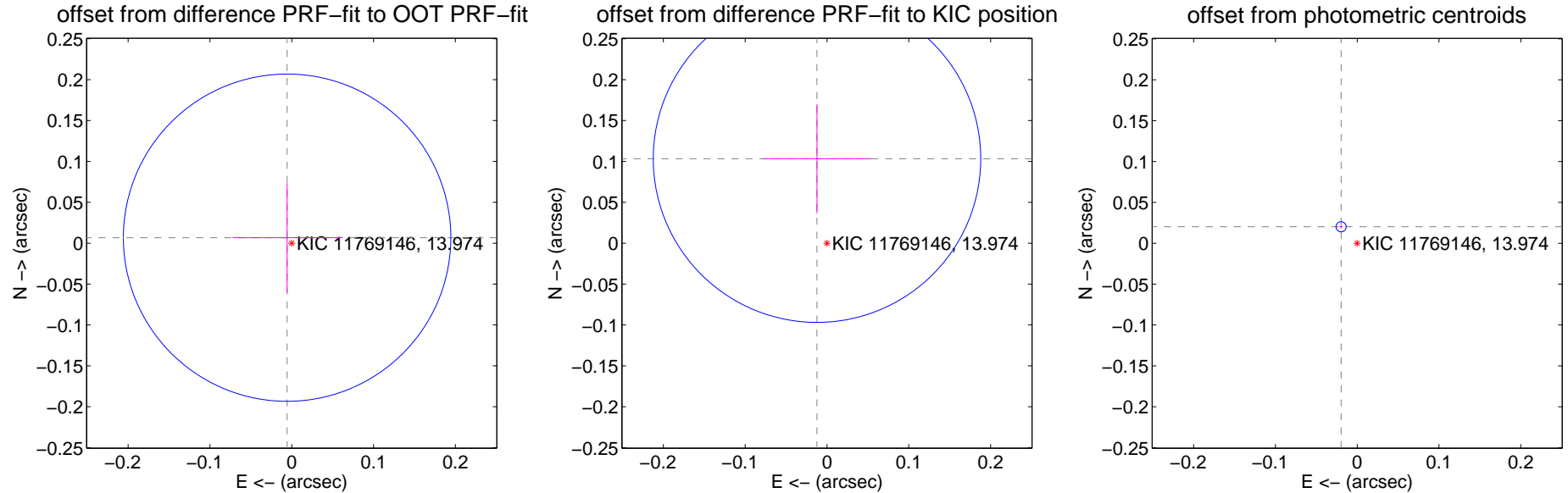
DV Centroid Data

Supplemental centroid analysis for 011769146-02. Kepler magnitude: 13.97. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

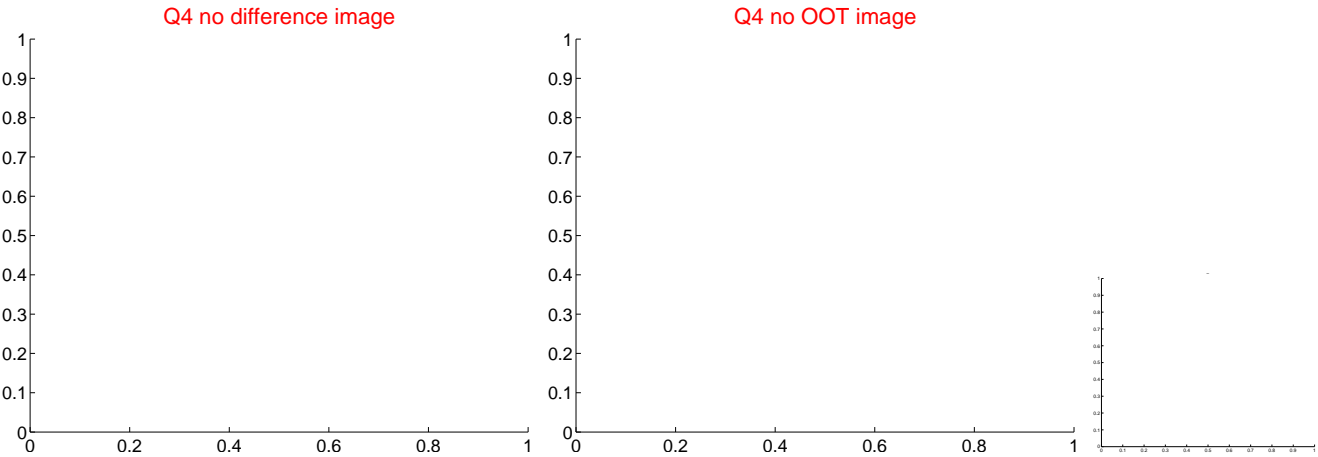
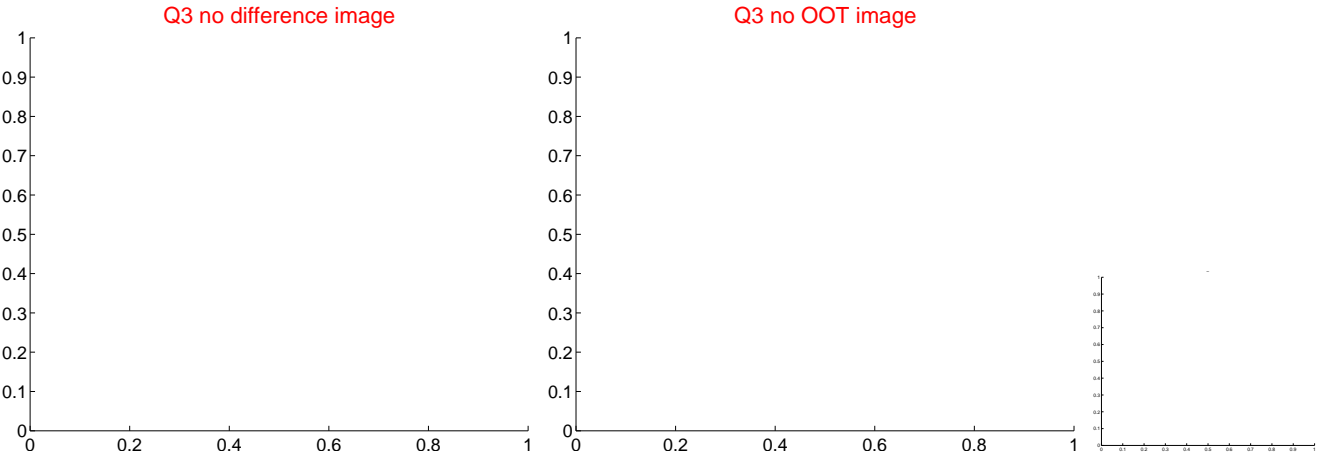
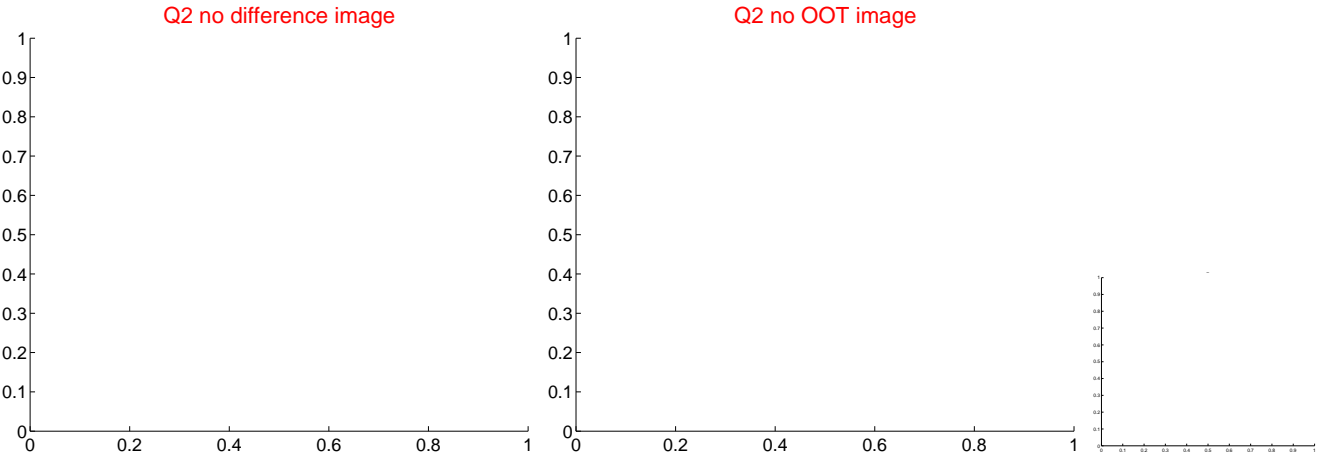
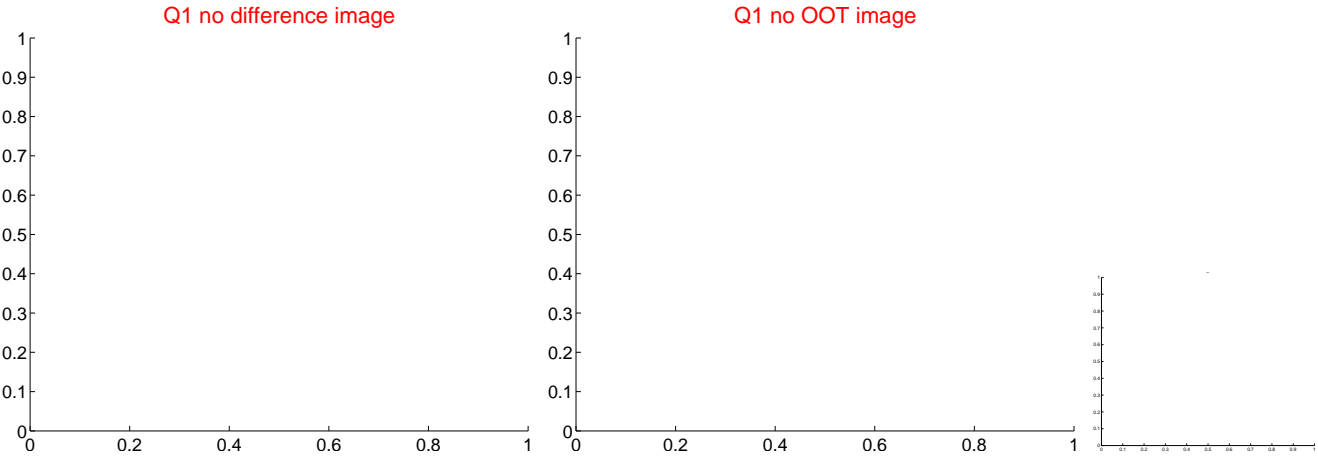
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.009 ± 0.067	0.13	0.006 ± 0.067	0.007 ± 0.067
PRF-fit source offset from KIC position	0.104 ± 0.067	1.56	0.012 ± 0.067	0.103 ± 0.067
photometric centroid source offset	0.03 ± 0.00	13.65	0.02 ± 0.00	0.02 ± 0.00

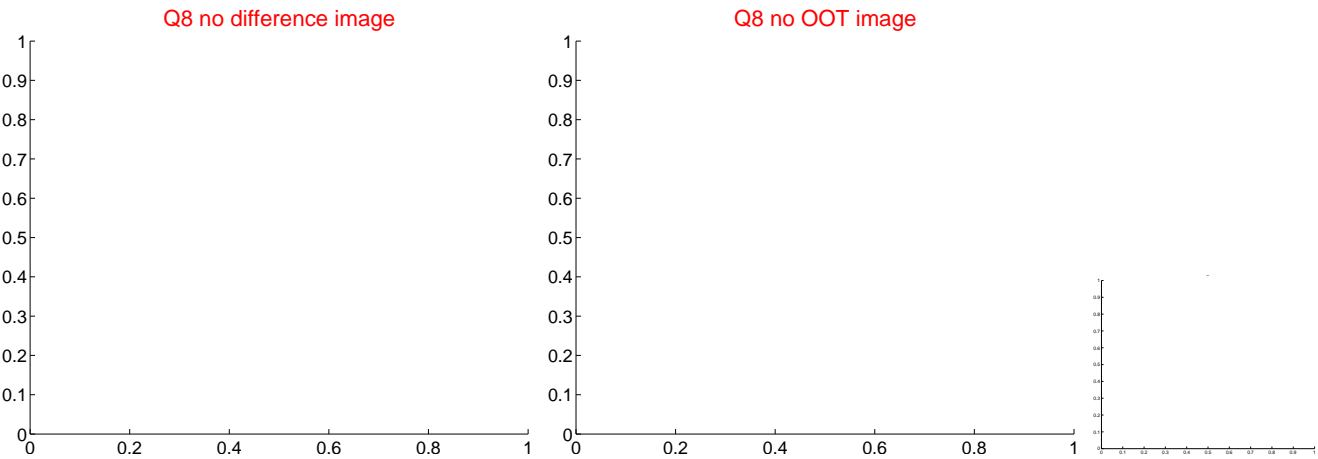
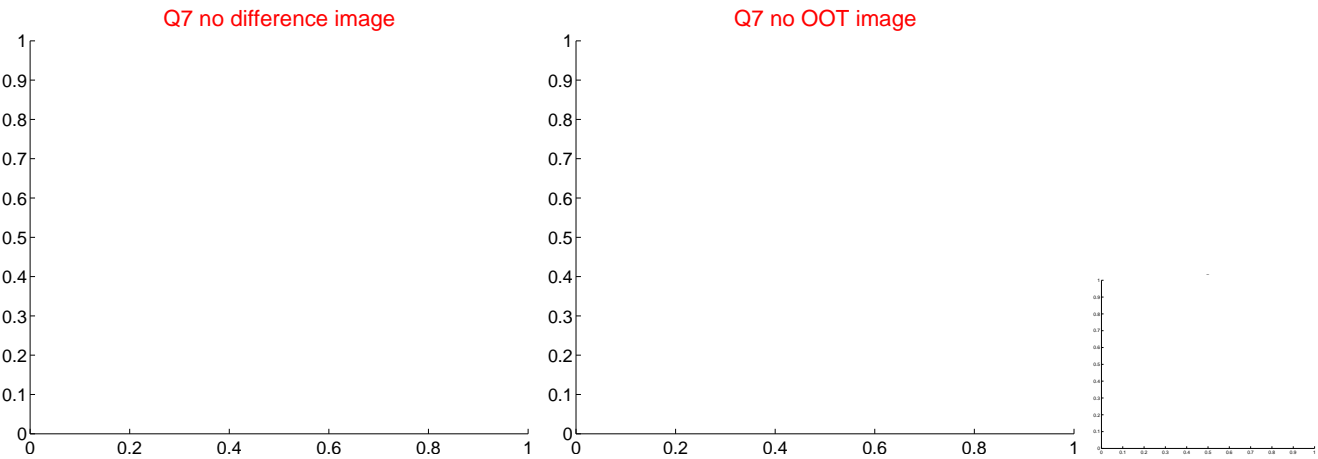
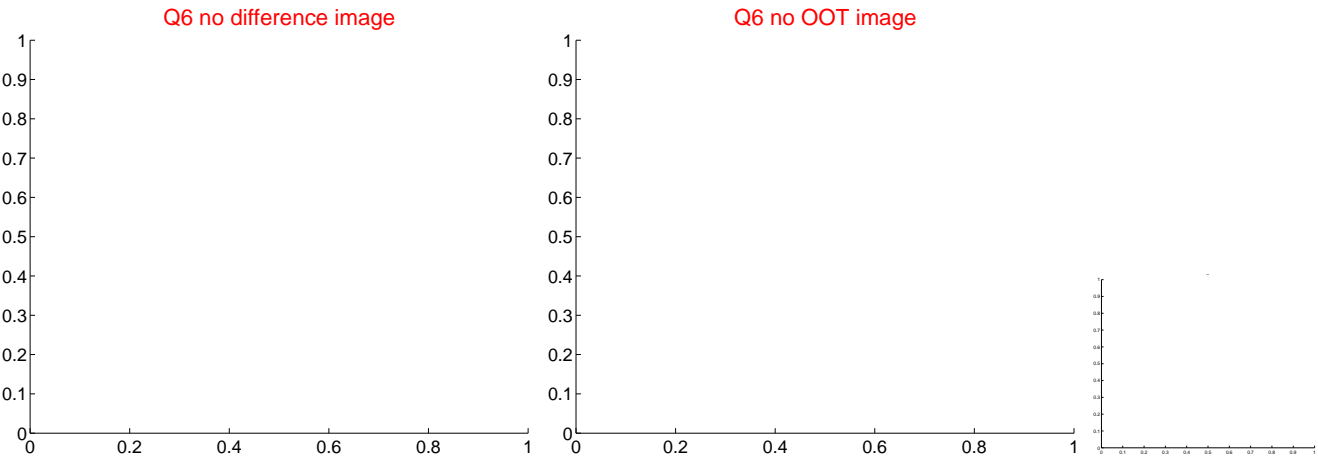
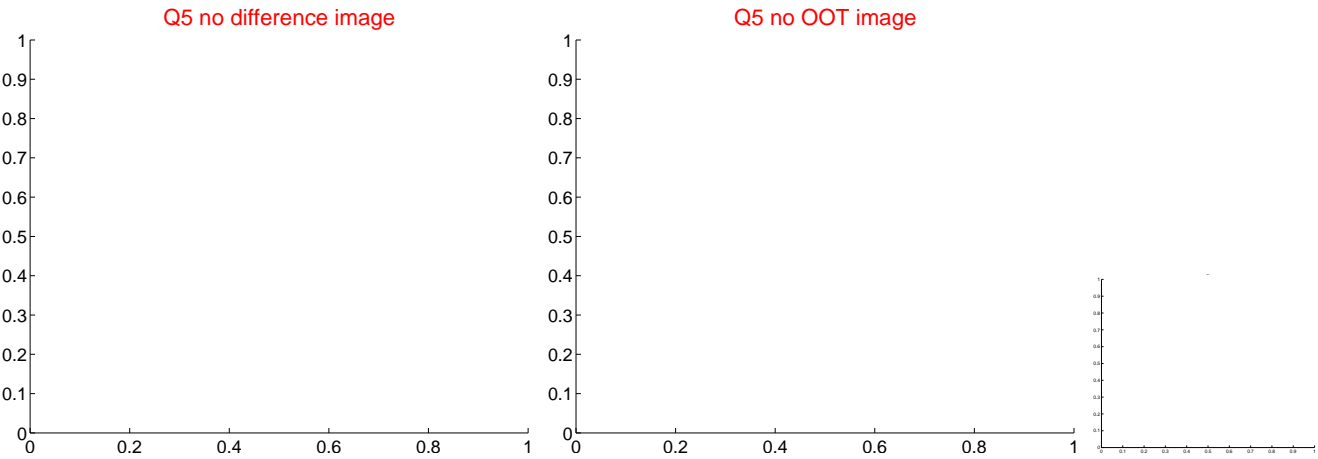


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

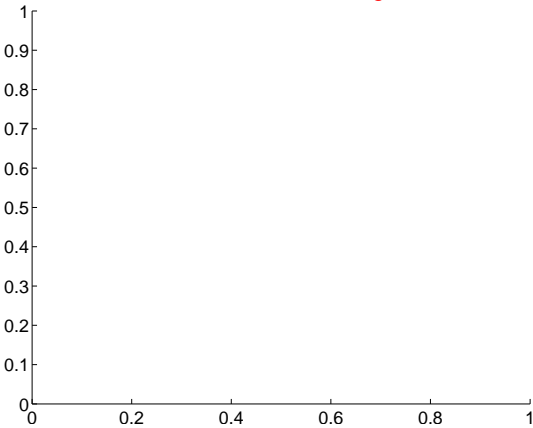


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

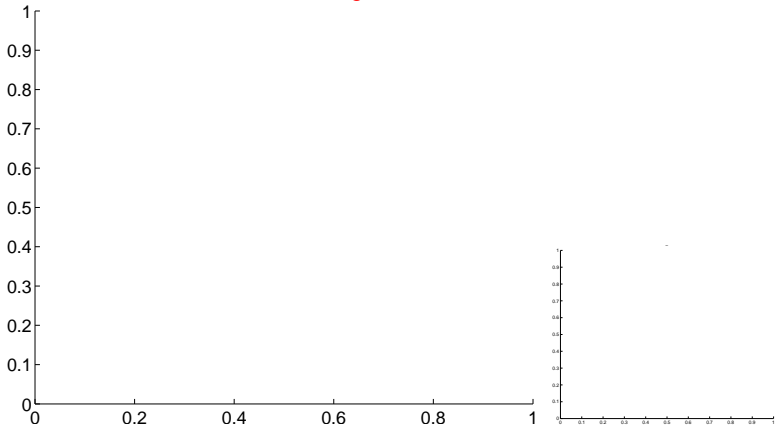


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

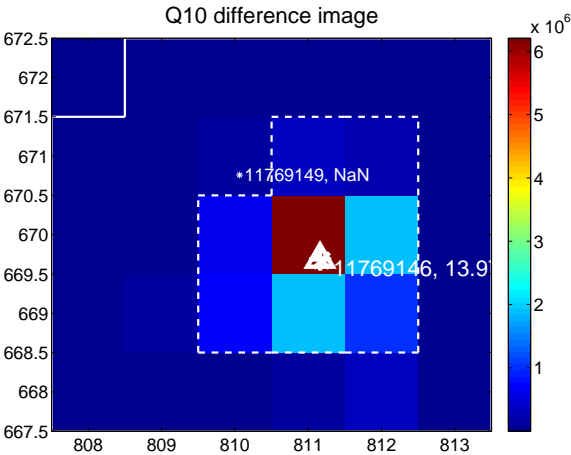
Q9 no difference image



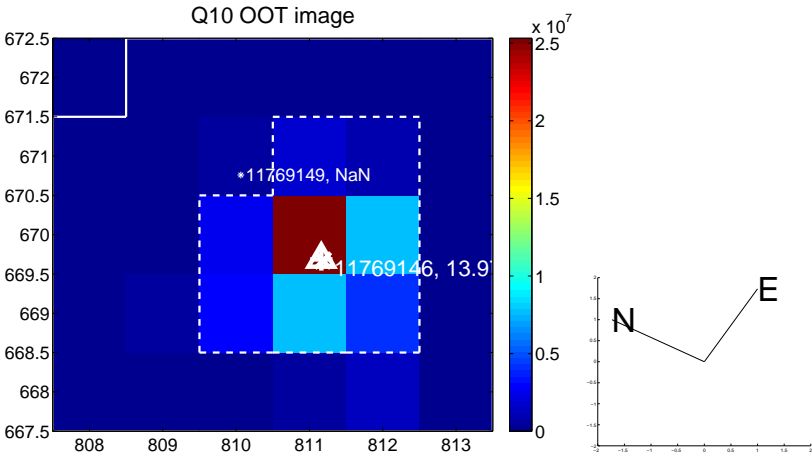
Q9 no OOT image



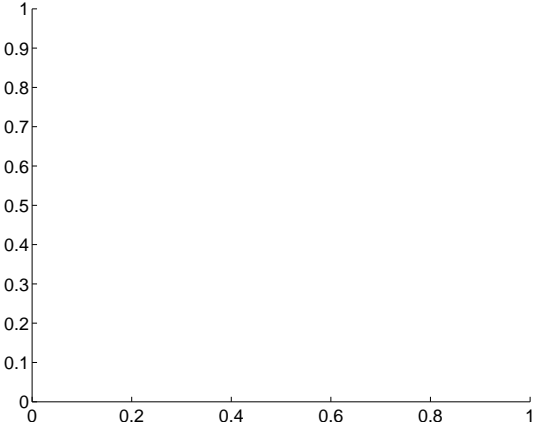
Q10 difference image



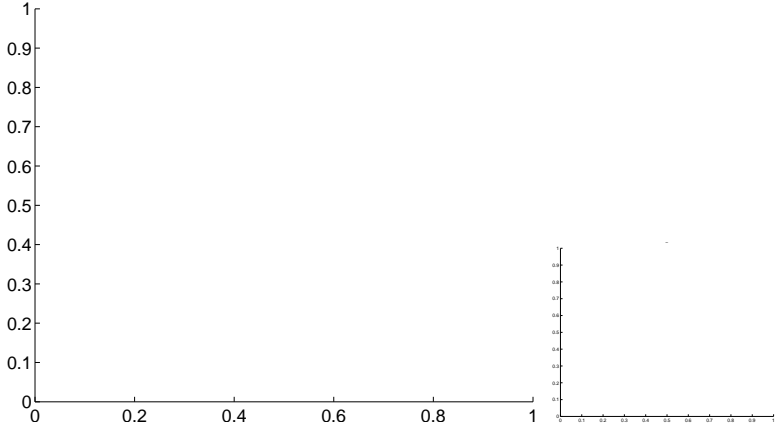
Q10 OOT image



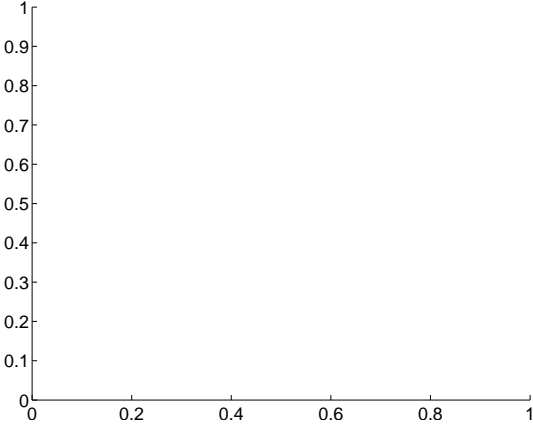
Q11 no difference image



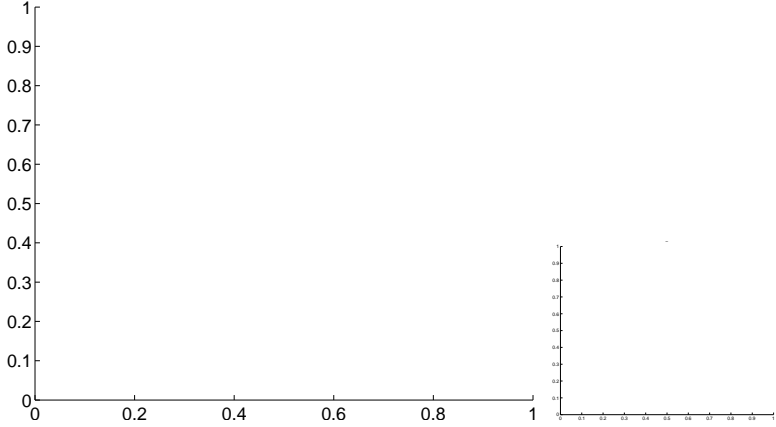
Q11 no OOT image



Q12 no difference image



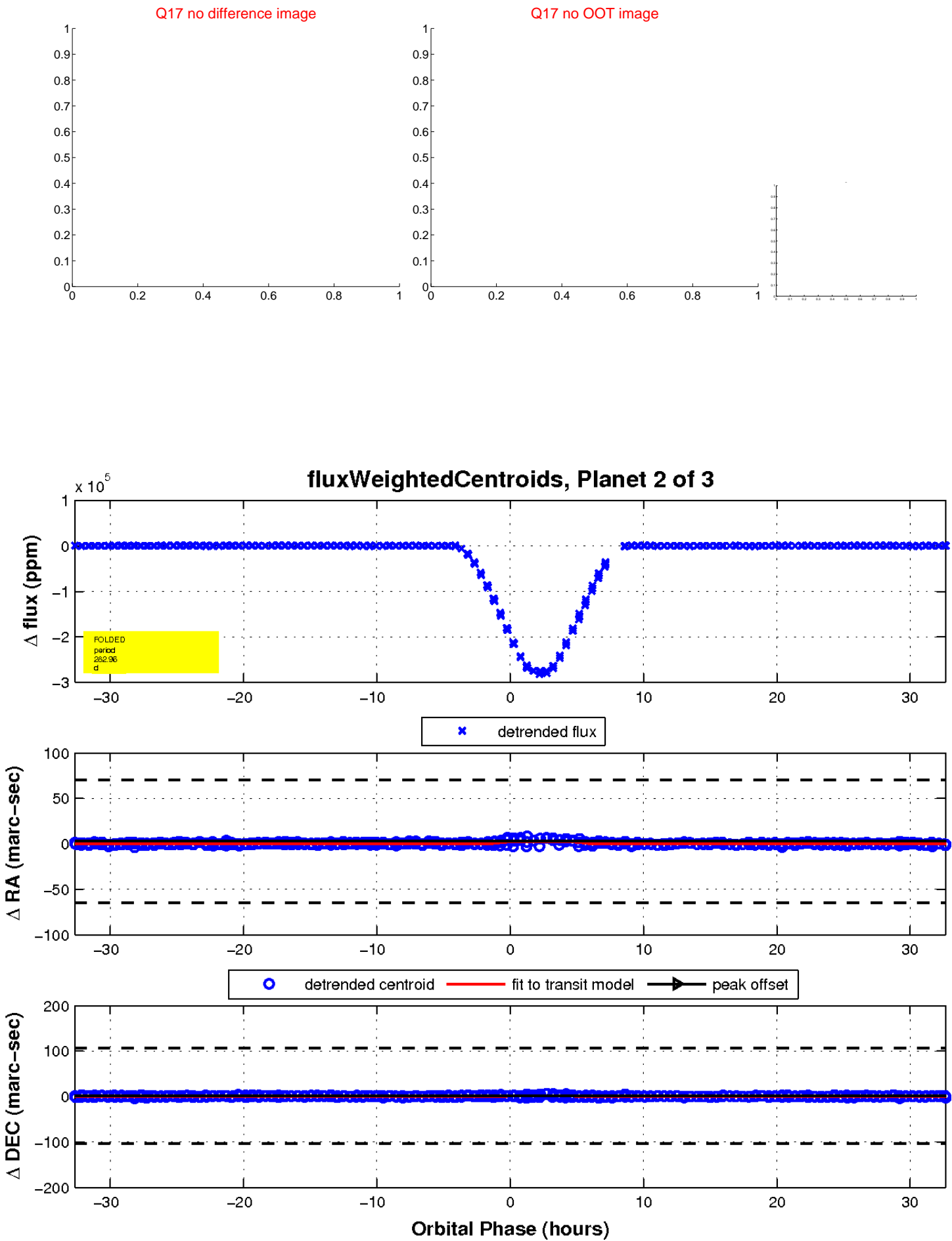
Q12 no OOT image



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

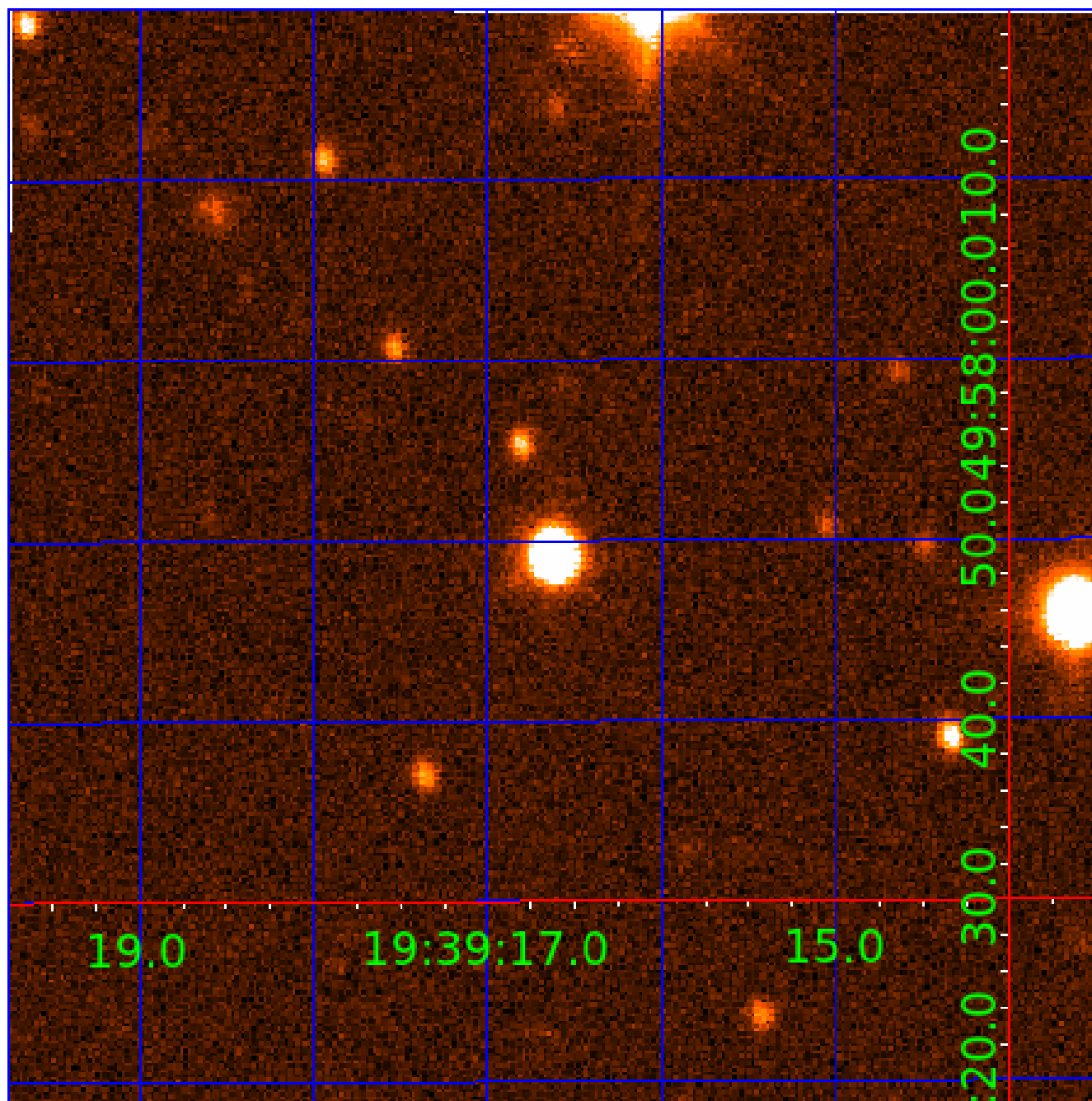


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011769146

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})
011769146-01	OBS	6089.01	282.963939	193.513226	477287.9	12.500	11276.9	-1.0	0.96	5999	49.88	1.46
011769146-02	OBS	No	282.963939	350.439561	281865.6	6.000	2023.5	-1.0	0.96	5999	29.32	1.46
011769146-03	OBS	No	280.045019	355.528220	657.1	22.595	28.7	8.9	0.96	5999	2.50	1.48

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011769146-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_ALT—HAS_SEC_TCE—CENT_NOFITS
011769146-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_NOFITS
011769146-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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 011769146-03

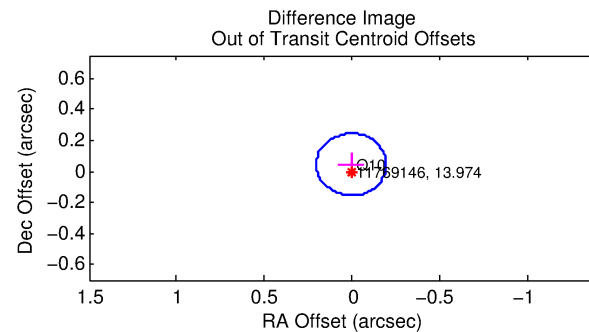
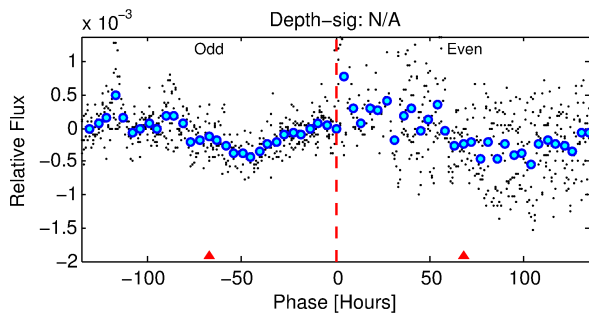
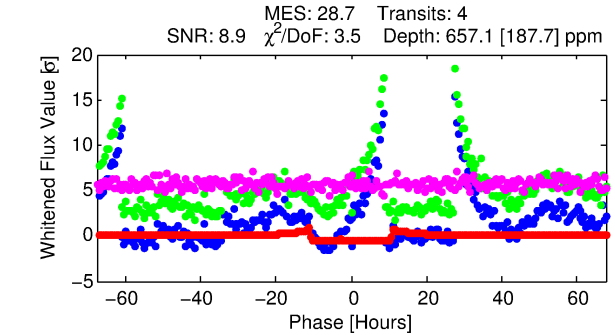
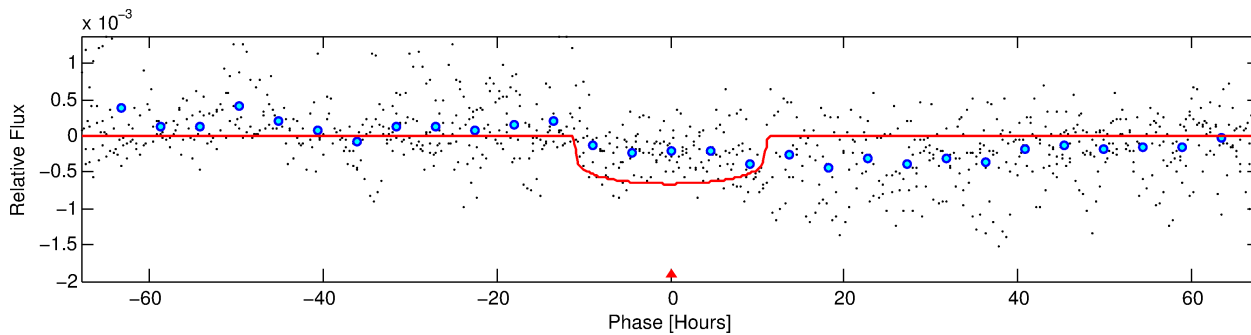
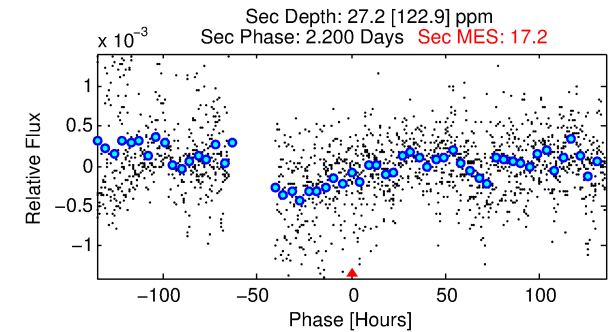
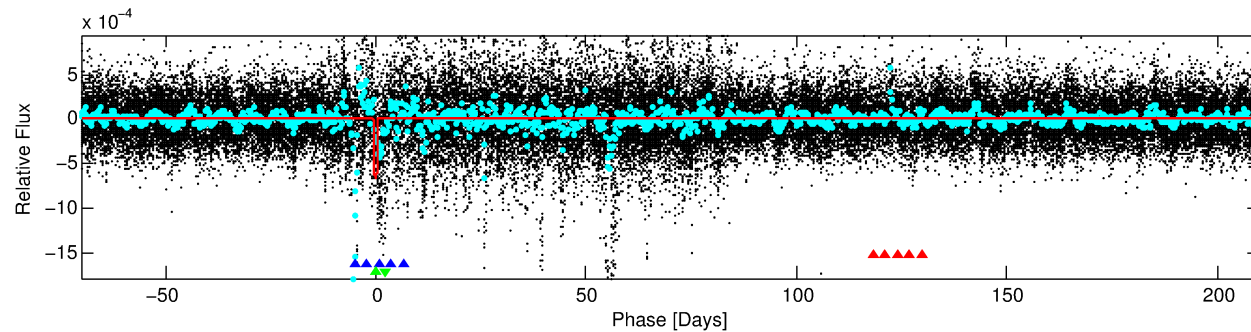
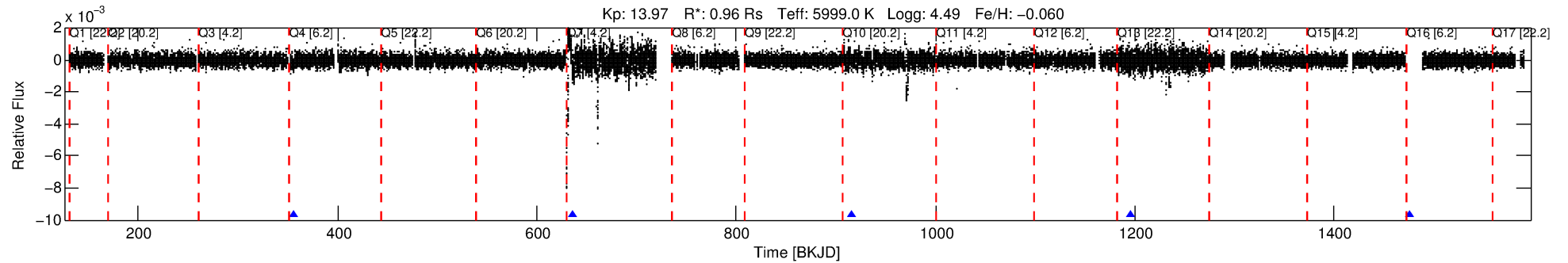
No Significant Match Found

DV One-Page Summary

KIC: 11769146 Candidate: 3 of 3 Period: 280.045 d

KOI: K06089 Corr: No Ephemeris Match

Kp: 13.97 R*: 0.96 Rs Teff: 5999.0 K Logg: 4.49 Fe/H: -0.060



DV Fit Results:

Period = 280.04502 [0.01303] d
Epoch = 355.5282 [0.0242] BKJD
Rp/R* = 0.0238 [0.0117]
a/R* = 88.62 [191.20]
b = 0.41 [4.32]
Seff = 1.47 [0.62]
Teff = 281 [29] K
Rp = 2.50 [1.46] Re
a = 0.8506 [0.2266] AU
Ag = 1739.80 [8069.31] [0.22σ]
Teffp = 2806 [3244] K [0.78σ]

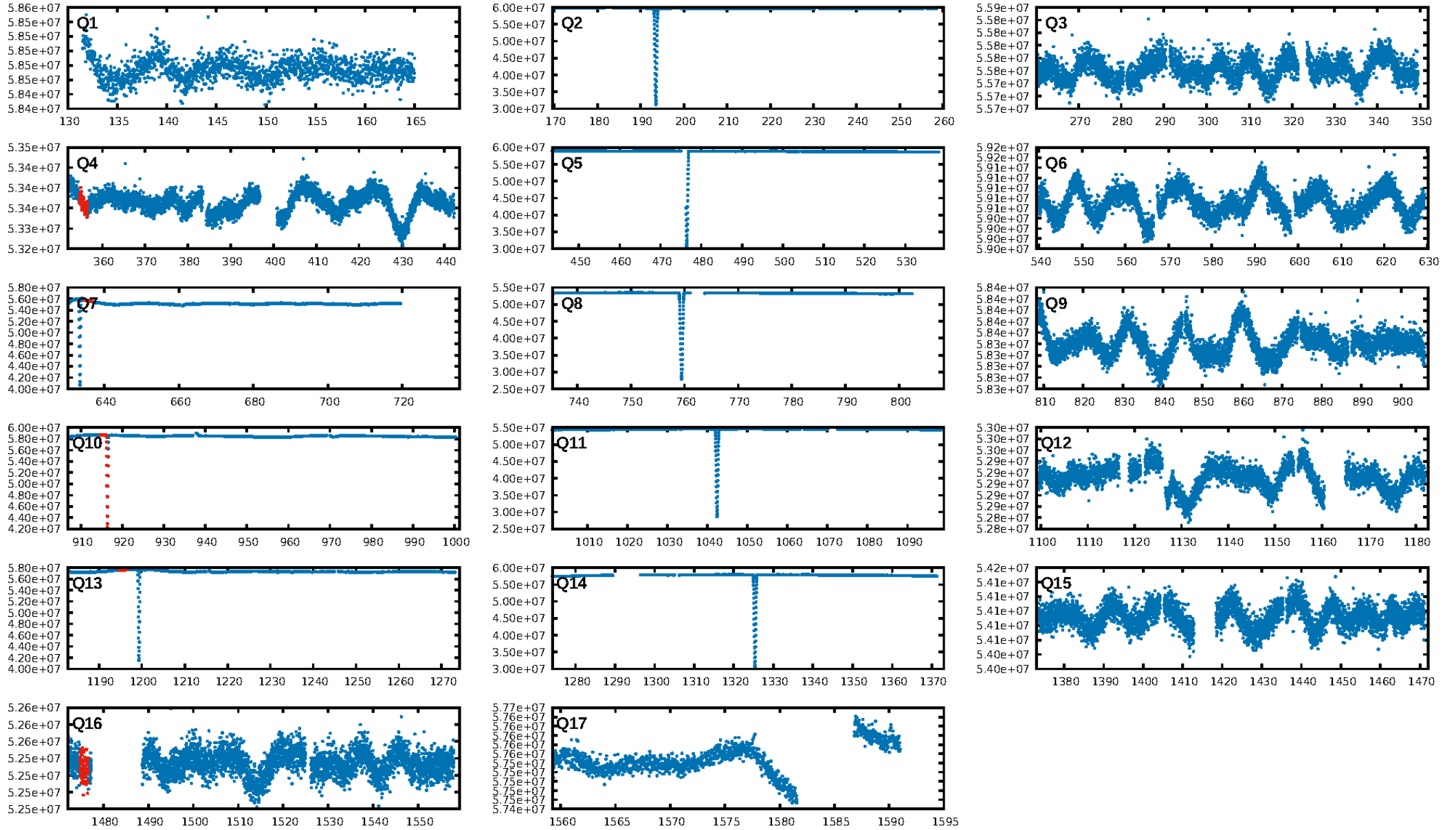
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 99.3% [2.71σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 1.96e-80
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -27.47
Centroid-sig: 21.8%
Centroid-so: 0.599 arcsec [1.08σ]
OotOffset-rm: 0.046 arcsec [0.68σ]
KicOffset-rm: 0.148 arcsec [2.21σ]
OotOffset-st: 1/0/0/0 [1]
KicOffset-st: 1/0/0/0 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 0.50 [1/2]

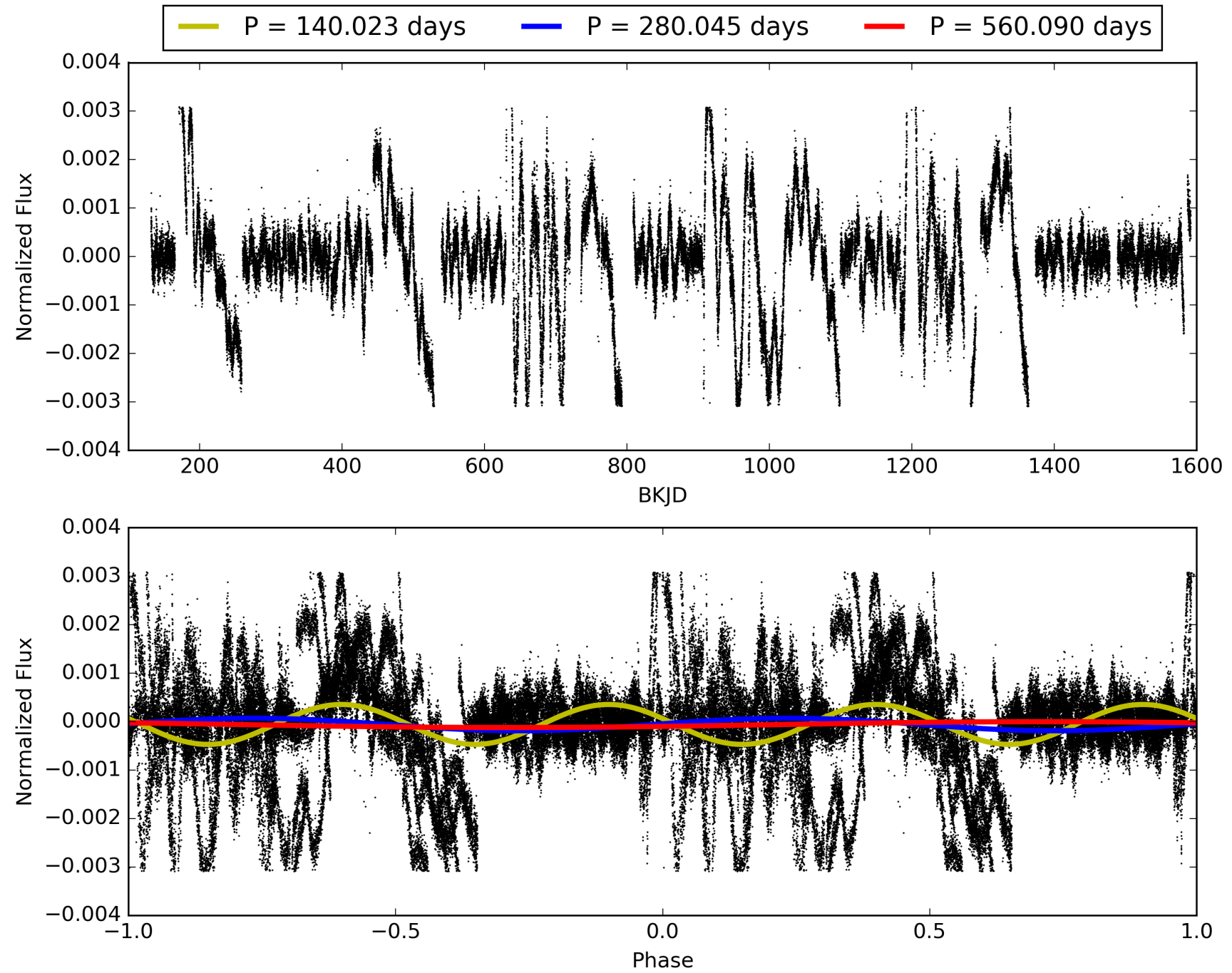
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 09:15:21 Z

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

TCE 011769146-03, PDC Light Curves

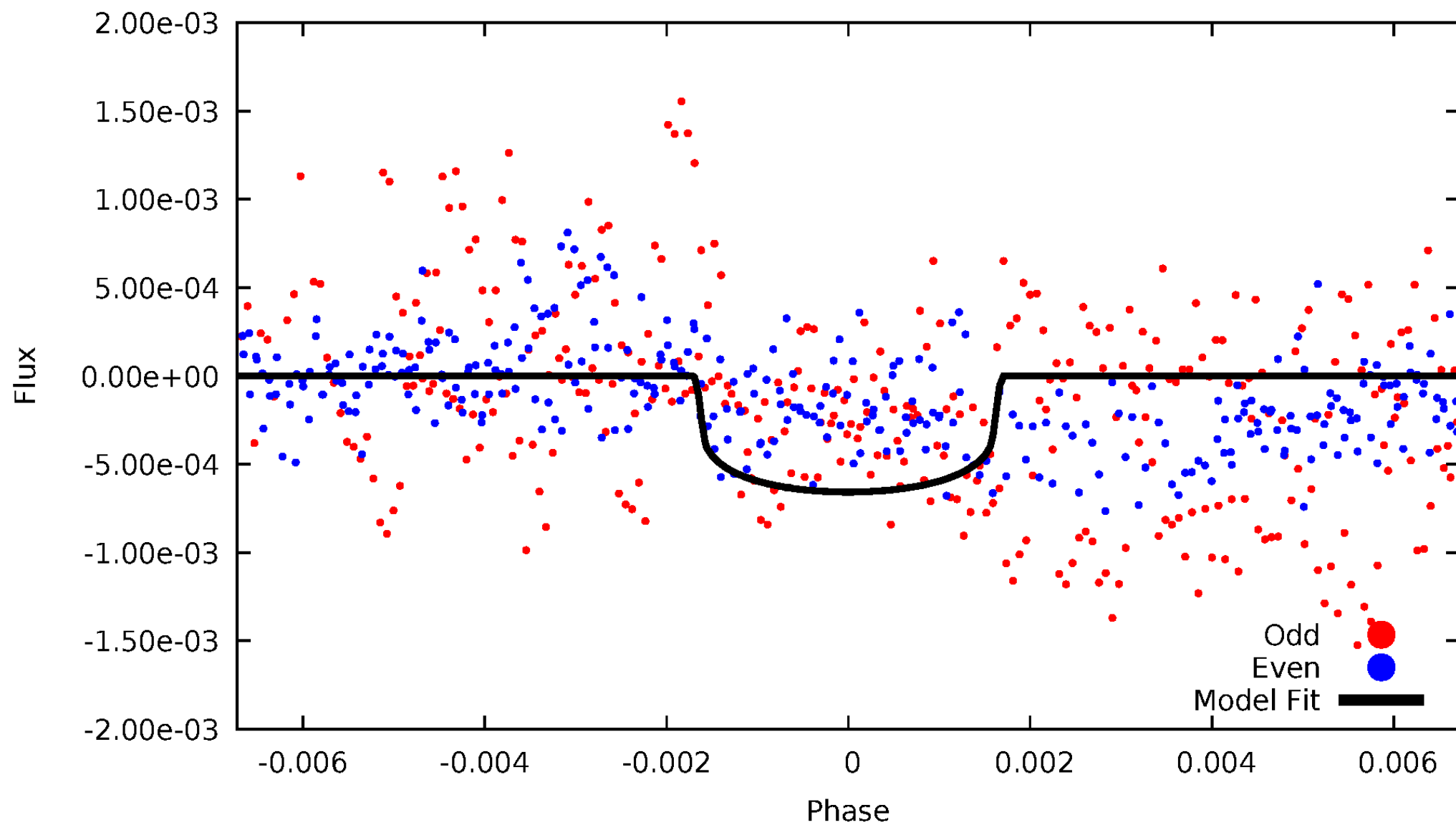


TCE 011769146-03



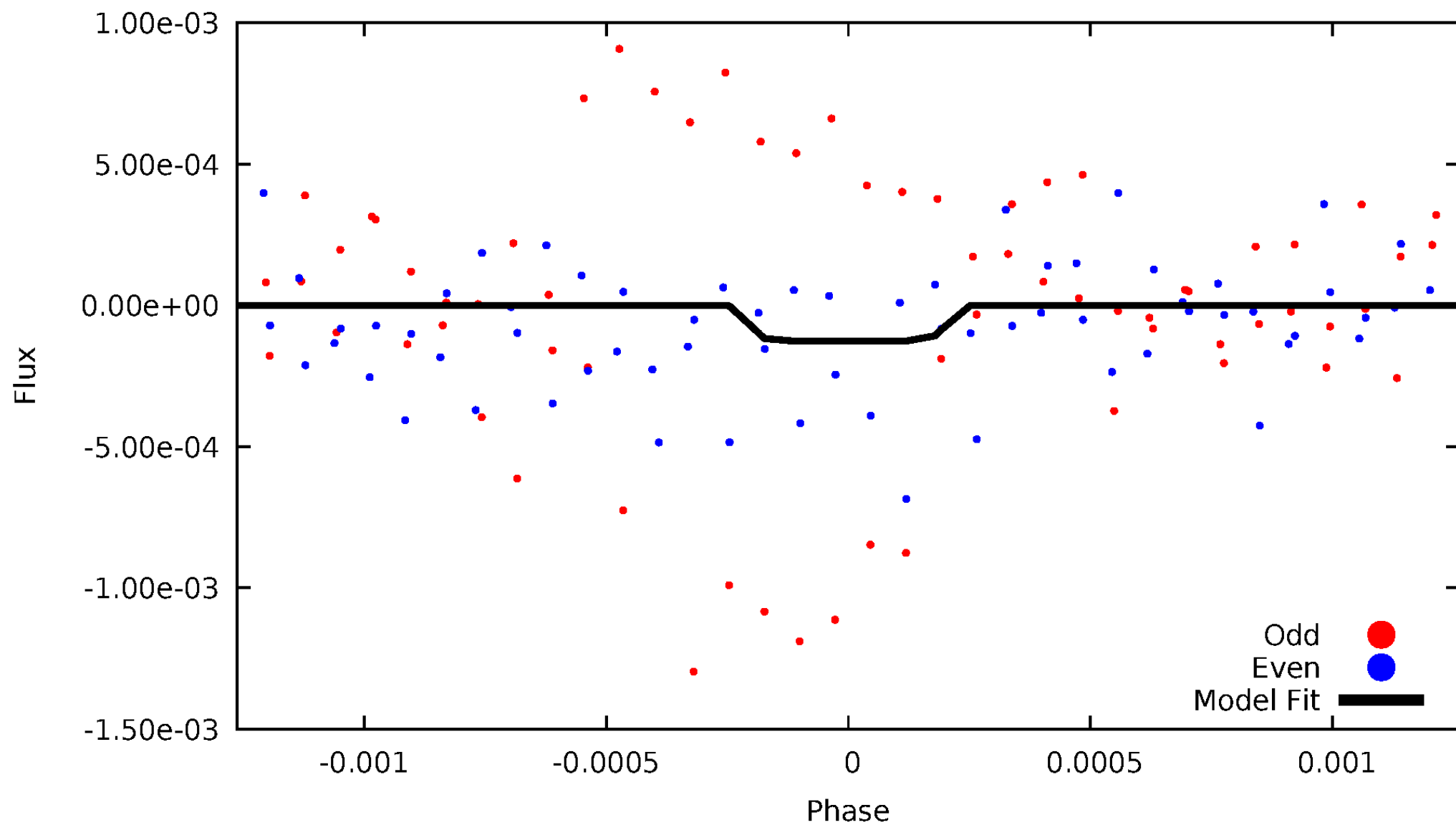
DV Odd/Even

TCE 011769146-03



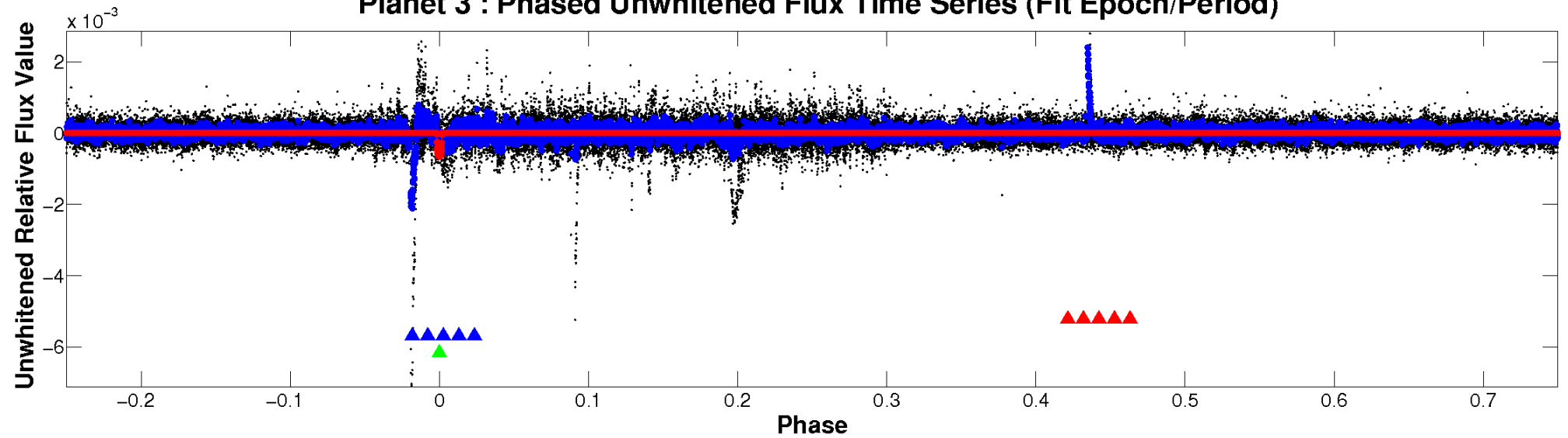
ALT Odd/Even

TCE 011769146-03

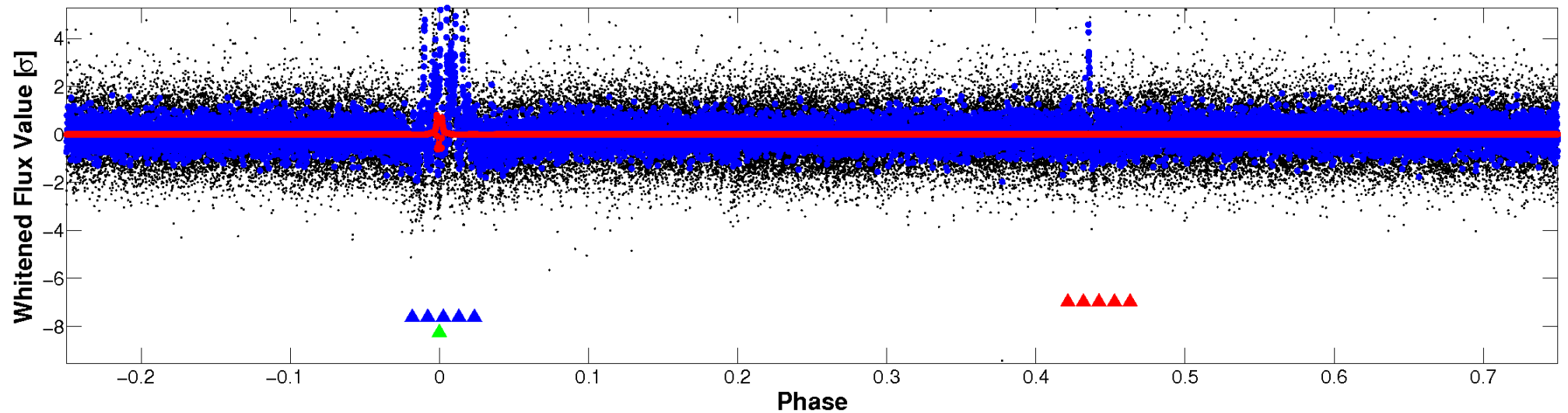


Non-Whitened Vs. Whitened Light Curve

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

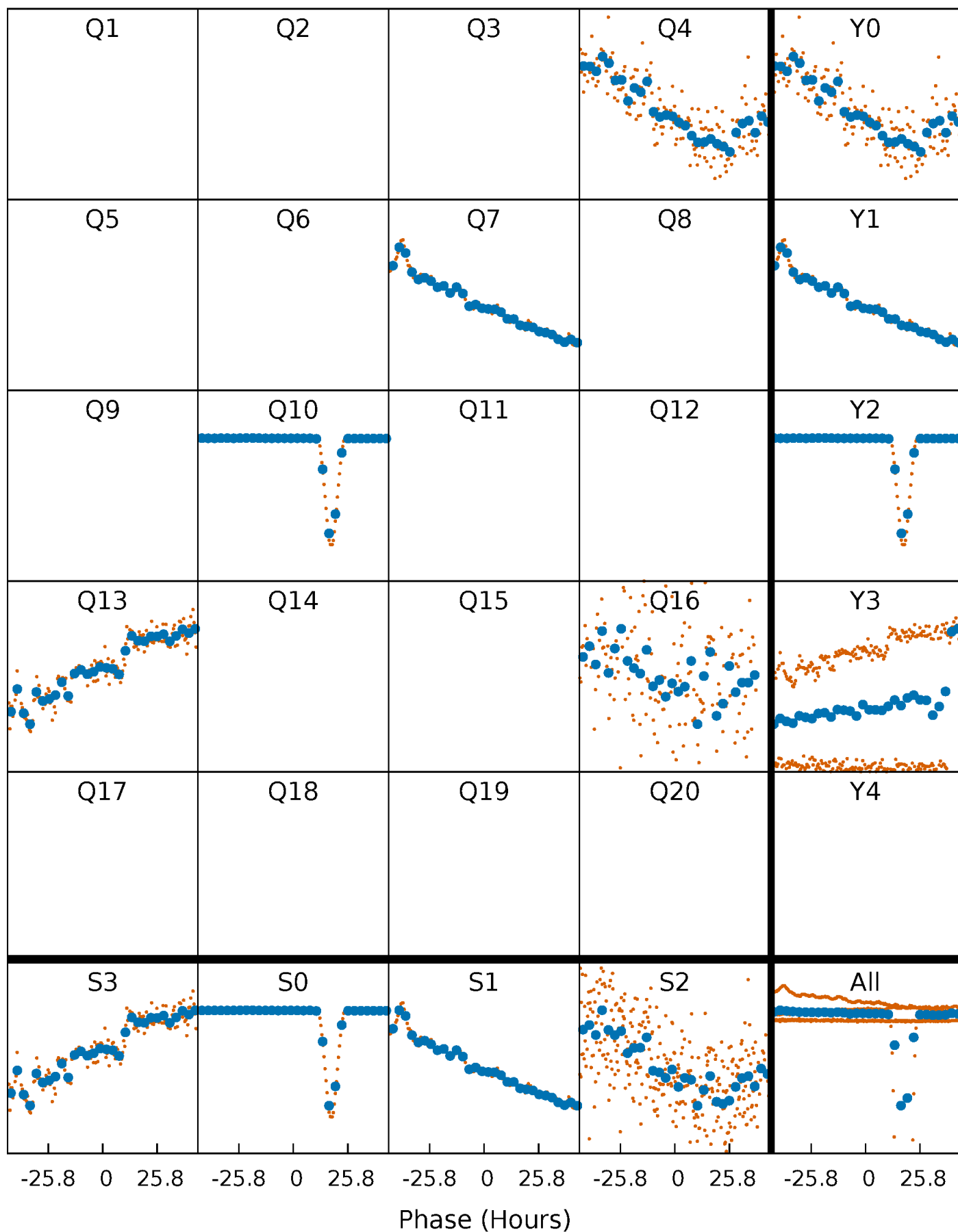


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



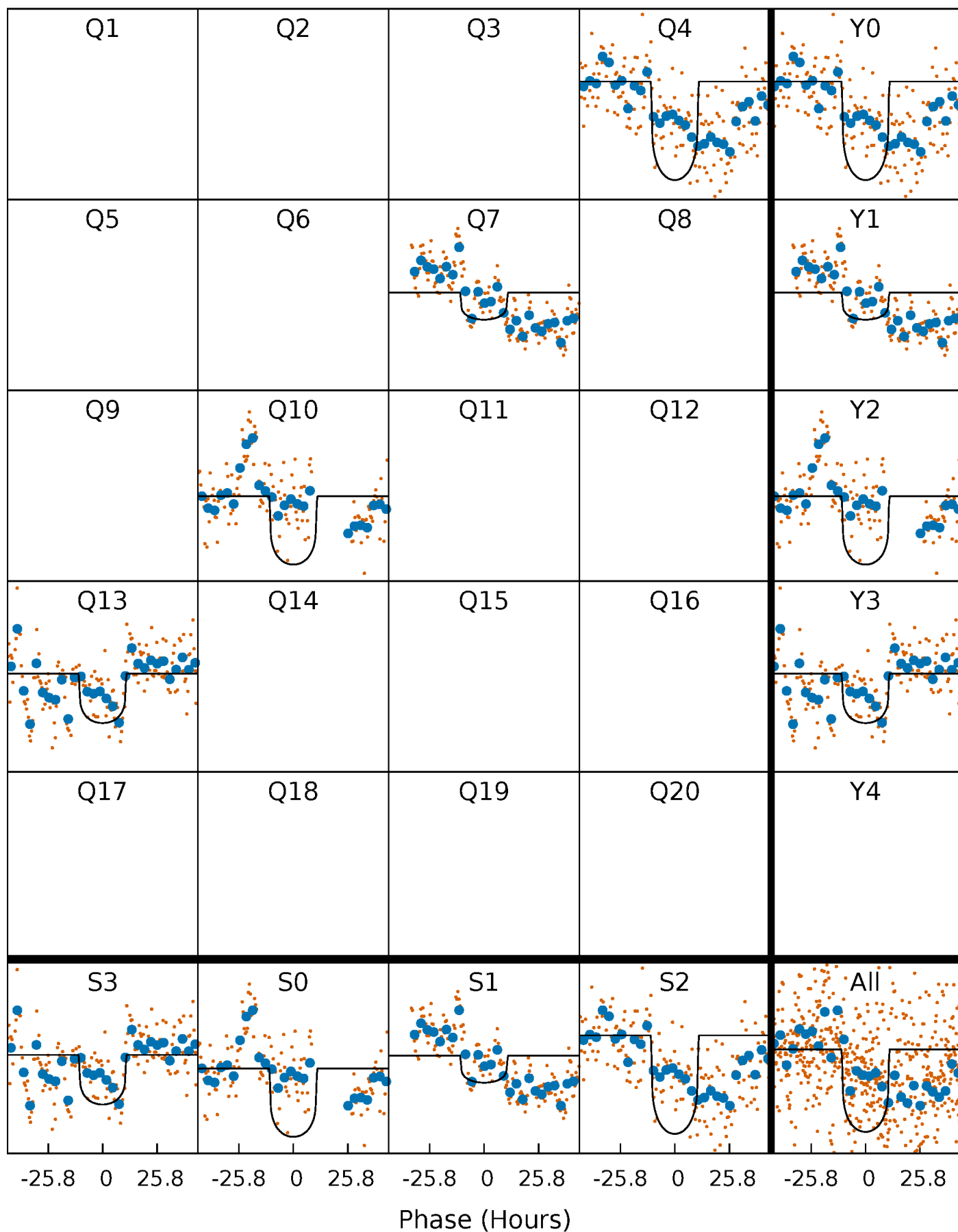
PDC Quarter-Phased Transit Curves

TCE 011769146-03 $P=280.045019$ Days $T_0=355.528220$ (BKJD)



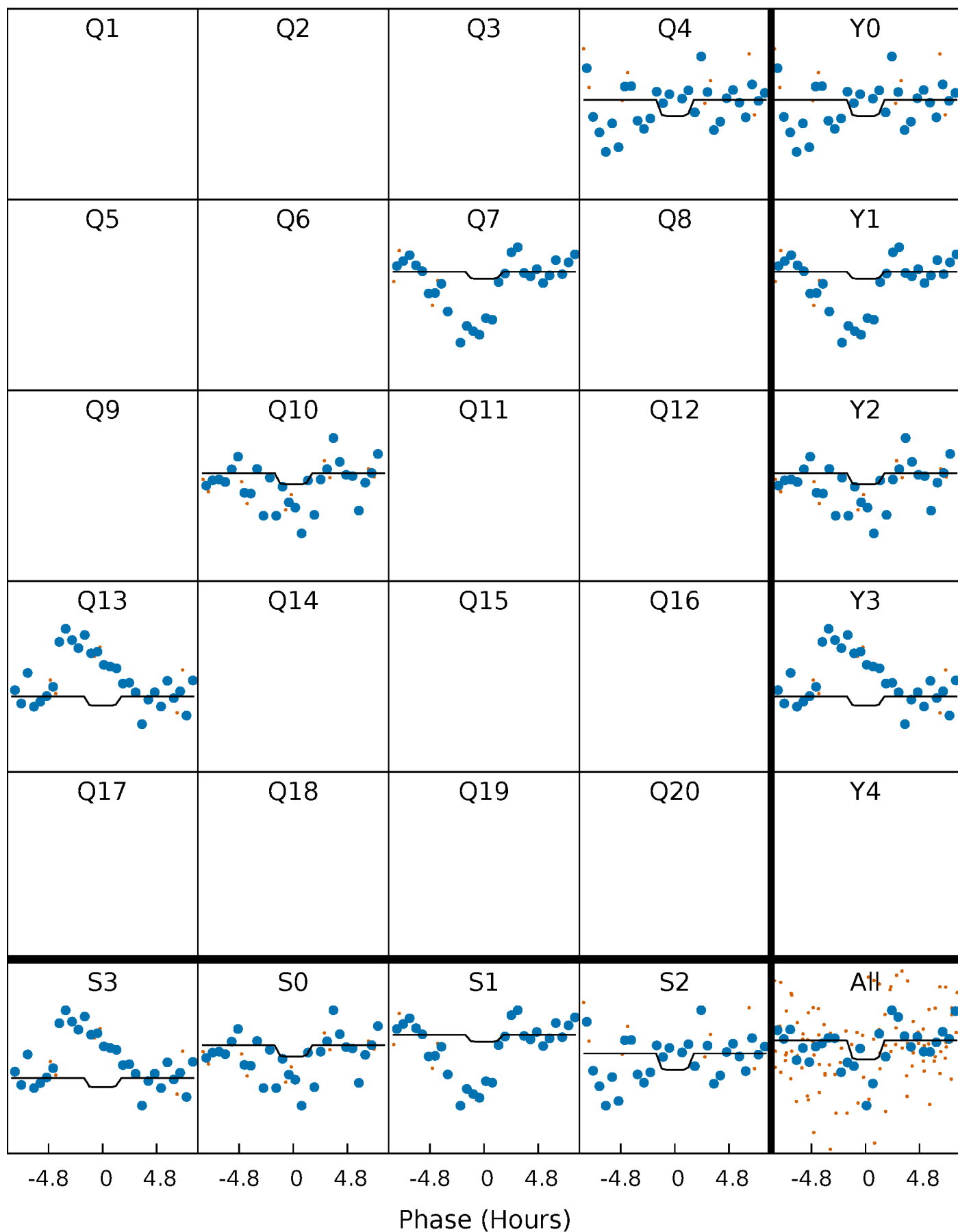
DV Quarter-Phased Transit Curves

TCE 011769146-03 $P=280.045019$ Days $T_0=355.528220$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

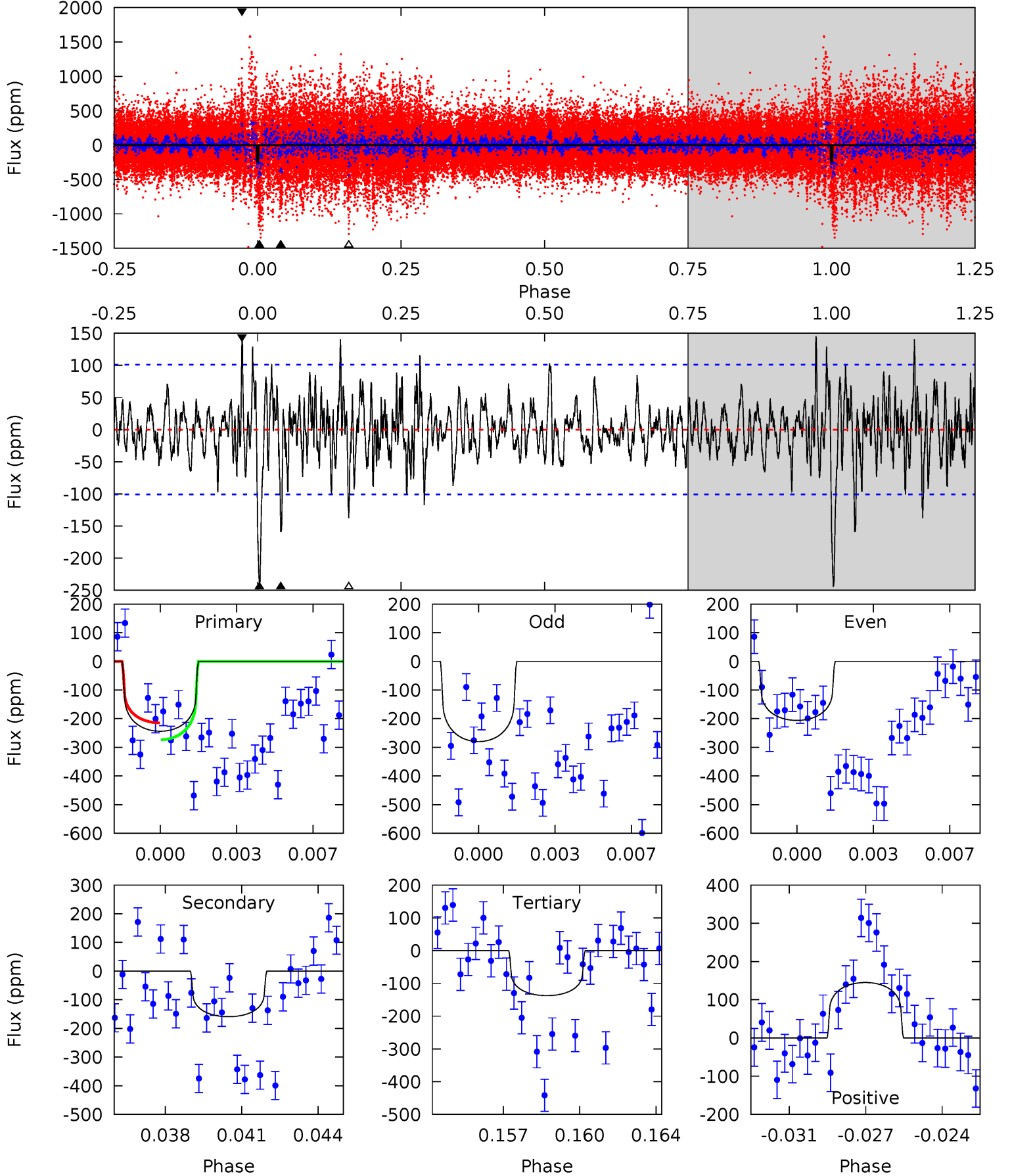
TCE 011769146-03 P=279.939772 Days $T_0=355.392074$ (BKJD)



DV Model-Shift Uniqueness Test

011769146-03, $P = 280.045019$ Days, $E = 75.483201$ Days

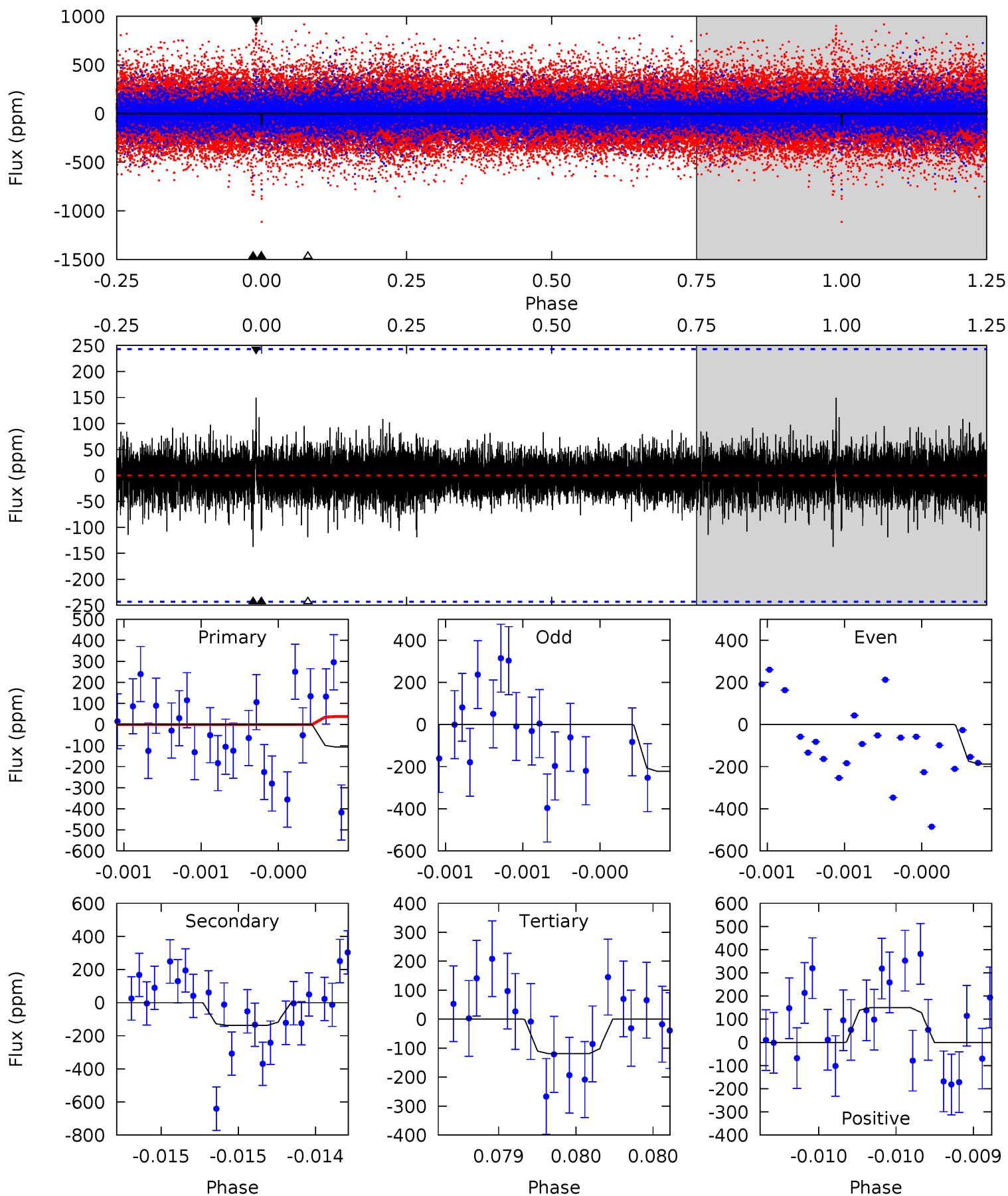
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.6	8.24	7.11	7.51	5.23	2.93	1.85	5.51	5.11	1.12	0.72	1.63	0.93	0.37	1.52



Alt Model-Shift Uniqueness Test

011769146-03, P = 279.939772 Days, E = 75.452302 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.46	3.16	2.74	3.44	5.60	3.52	0.61	-0.28	-0.98	0.42	-0.28	0.43	1.17	0.52	1.68



Stellar Parameters For KIC 011769146

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5999^{+162}_{-217}	$4.494^{+0.054}_{-0.216}$	$-0.060^{+0.250}_{-0.300}$	$0.959^{+0.300}_{-0.100}$	$1.045^{+0.129}_{-0.142}$	$1.670^{+0.461}_{-0.861}$
	+3%/-4%	+1%/-5%	+417%/-500%	+31%/-10%	+12%/-14%	+28%/-52%
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 011769146-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-159 ± 19	$2.54^{+1.37}_{-1.13}$	398^{+28}_{-20}	4549^{+1339}_{-657}	9478^{+22294}_{-5423}
Alt.	-137 ± 43	$1.51^{+1.19}_{-0.93}$	401^{+30}_{-19}	5519^{+3807}_{-1228}	$22826^{+128901}_{-16373}$

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

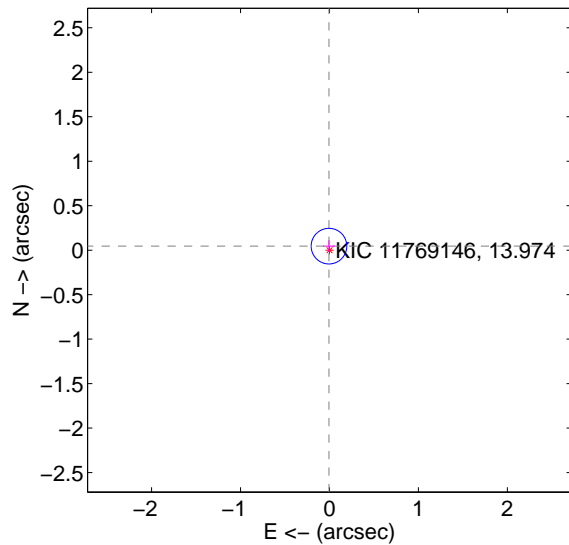
Supplemental centroid analysis for 011769146-03. Kepler magnitude: 13.97. Transit SNR 8.88

There are 0 quarters with good PRF difference image offsets

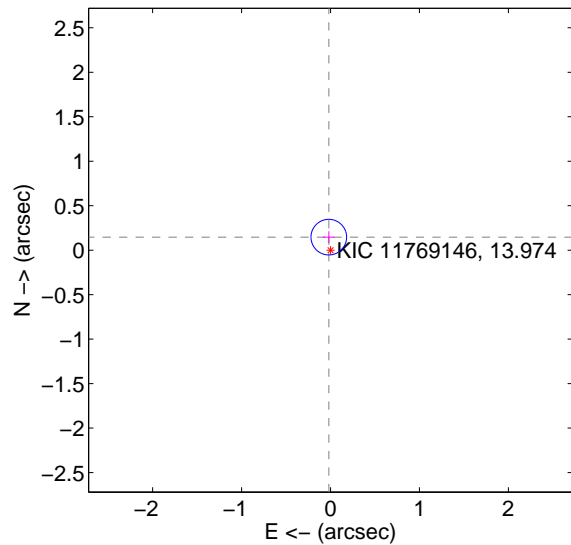
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.046 ± 0.067	0.68	0.006 ± 0.067	0.045 ± 0.067
PRF-fit source offset from KIC position	0.148 ± 0.067	2.21	0.019 ± 0.067	0.147 ± 0.067
photometric centroid source offset	0.60 ± 0.56	1.08	0.23 ± 0.45	0.55 ± 0.57

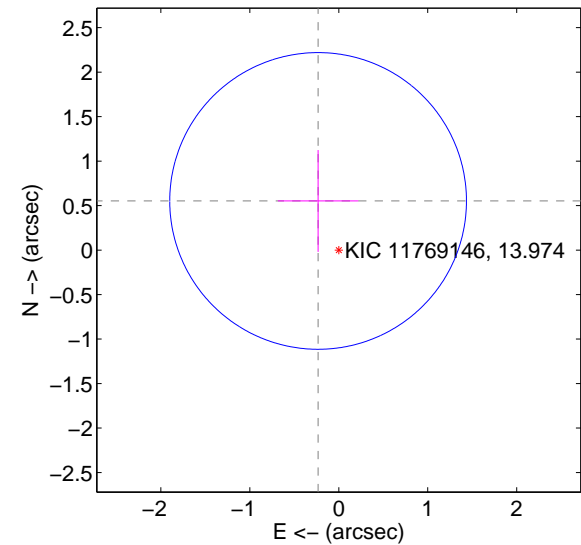
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

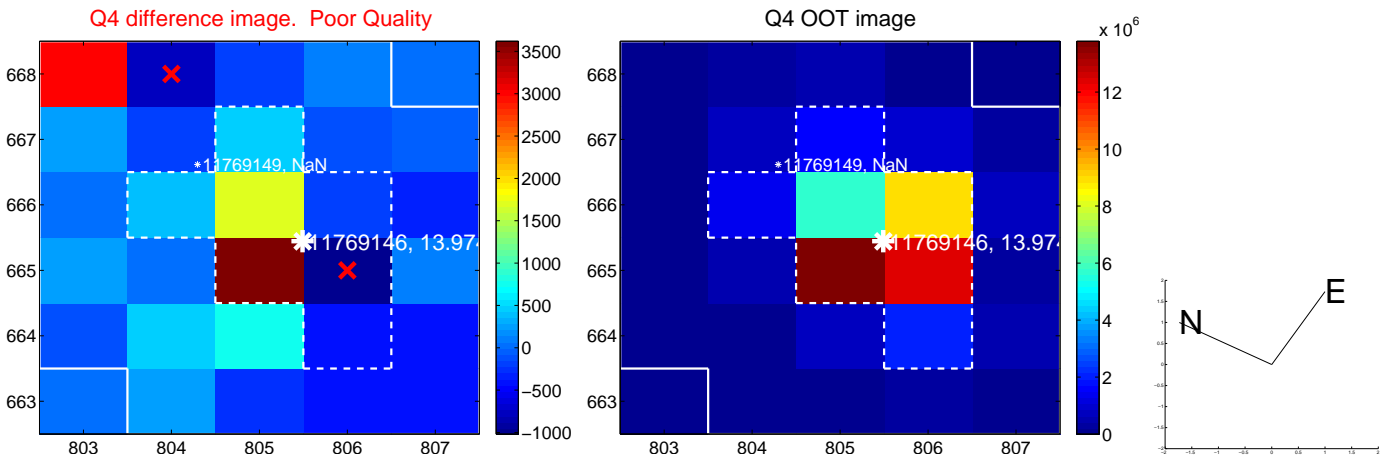
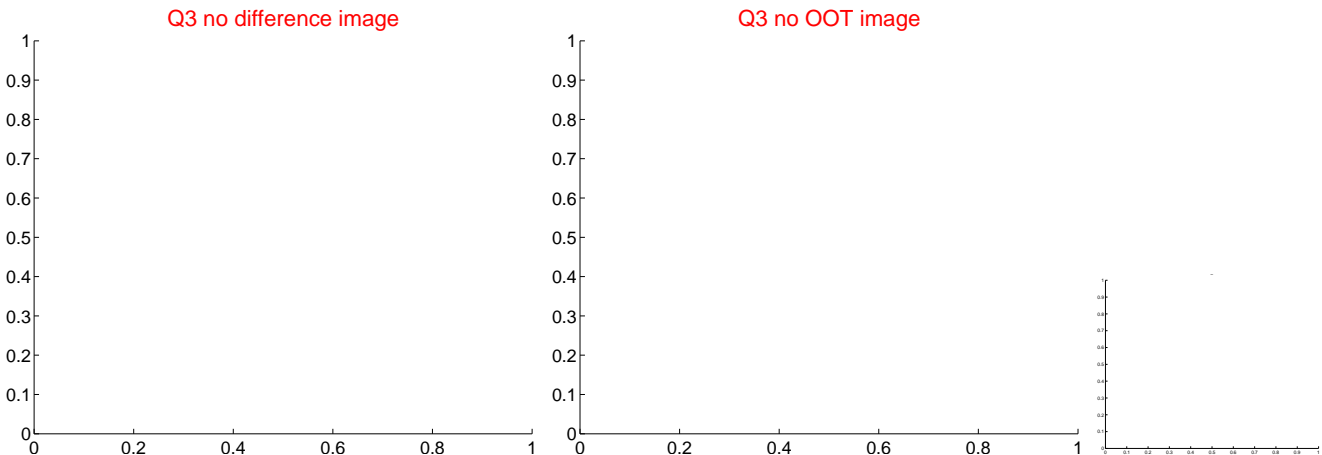
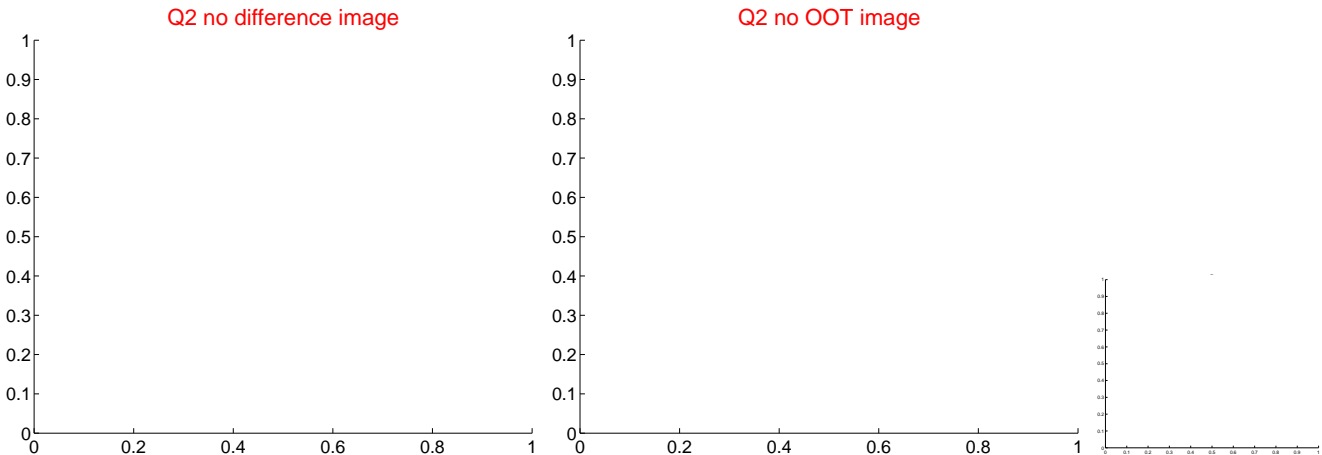
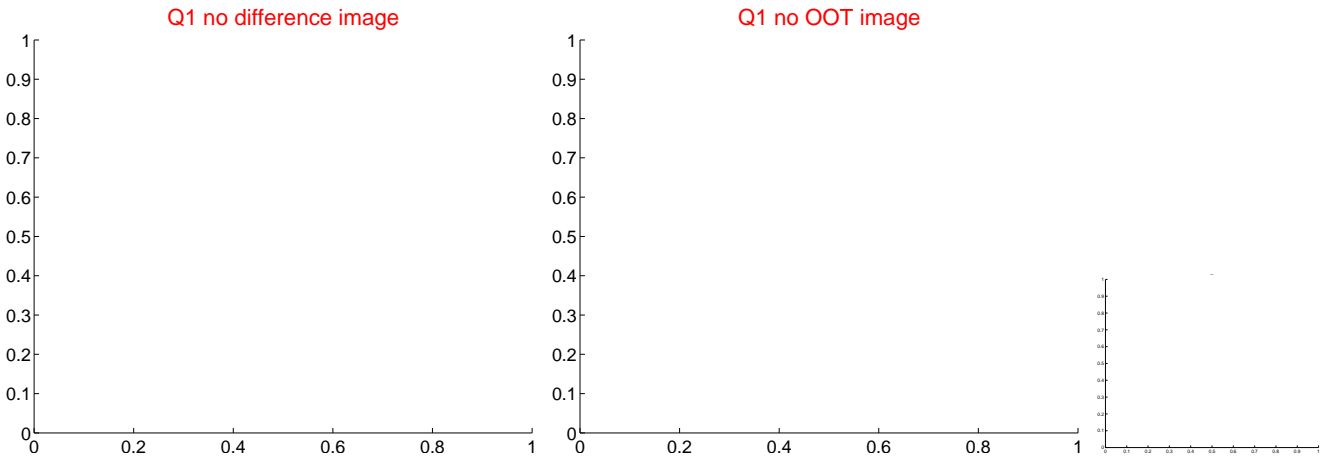


offset from photometric centroids

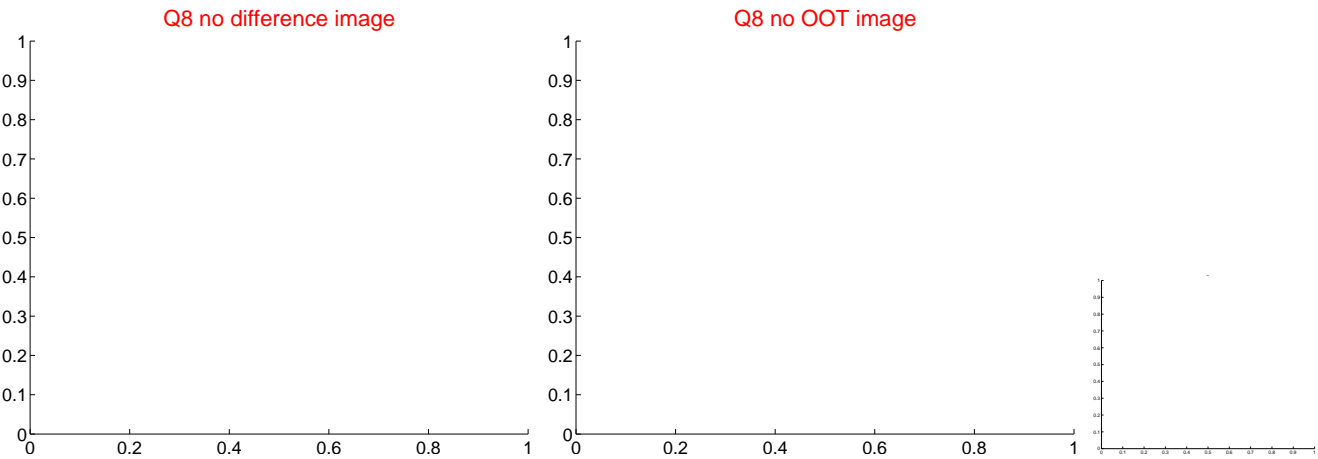
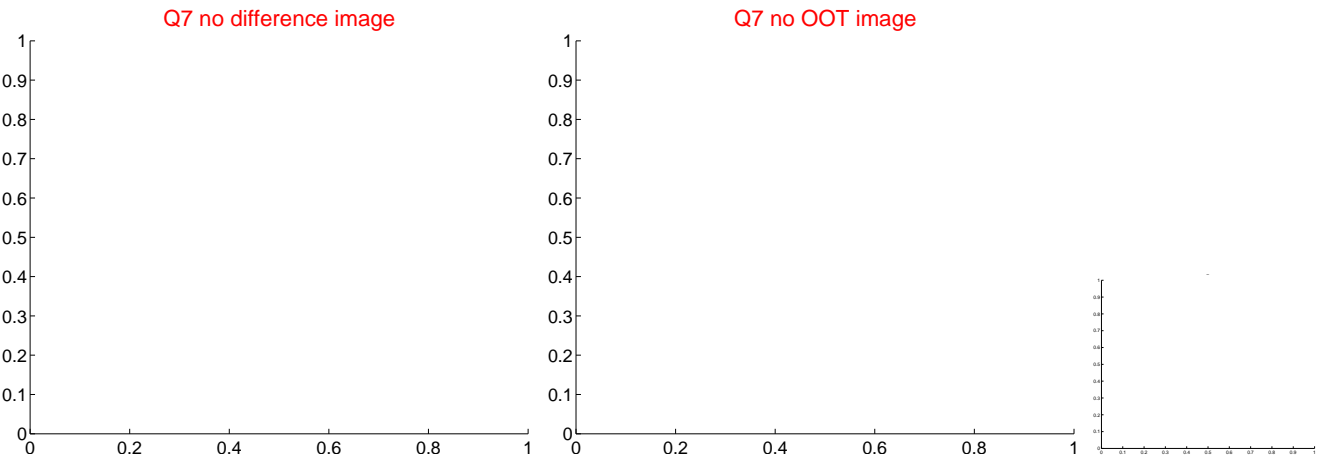
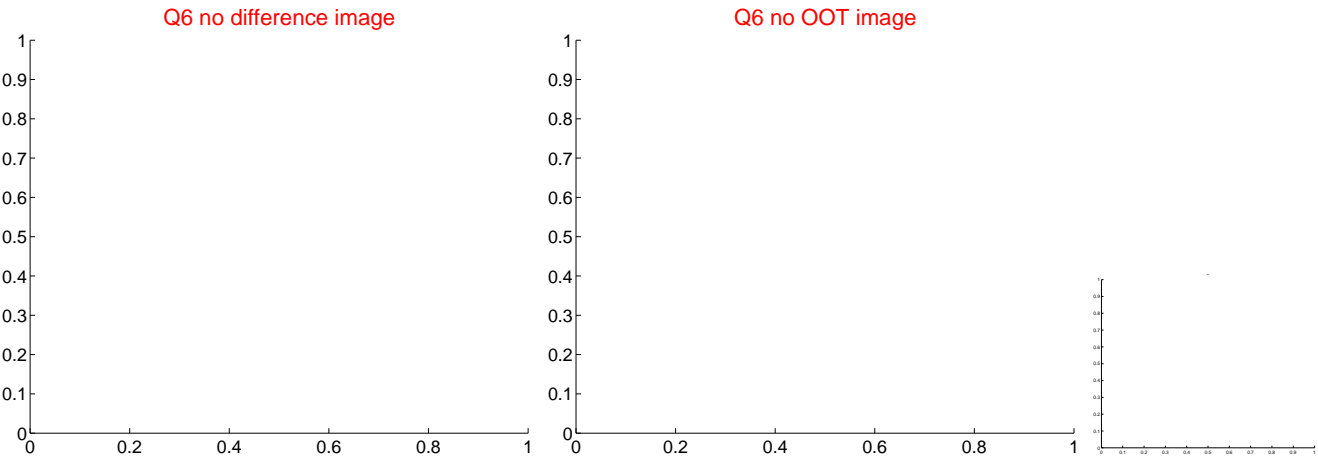
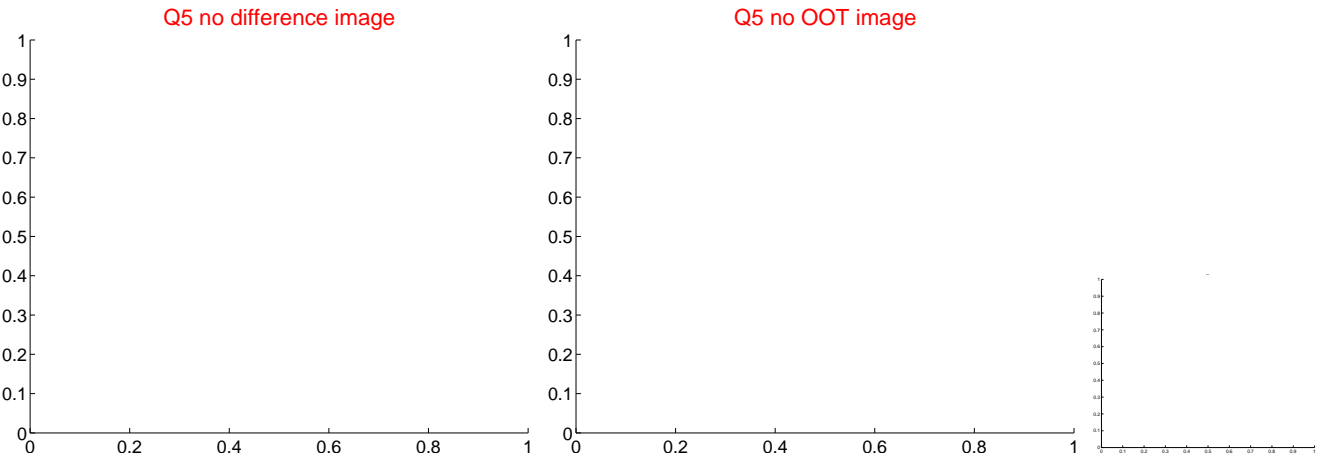


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

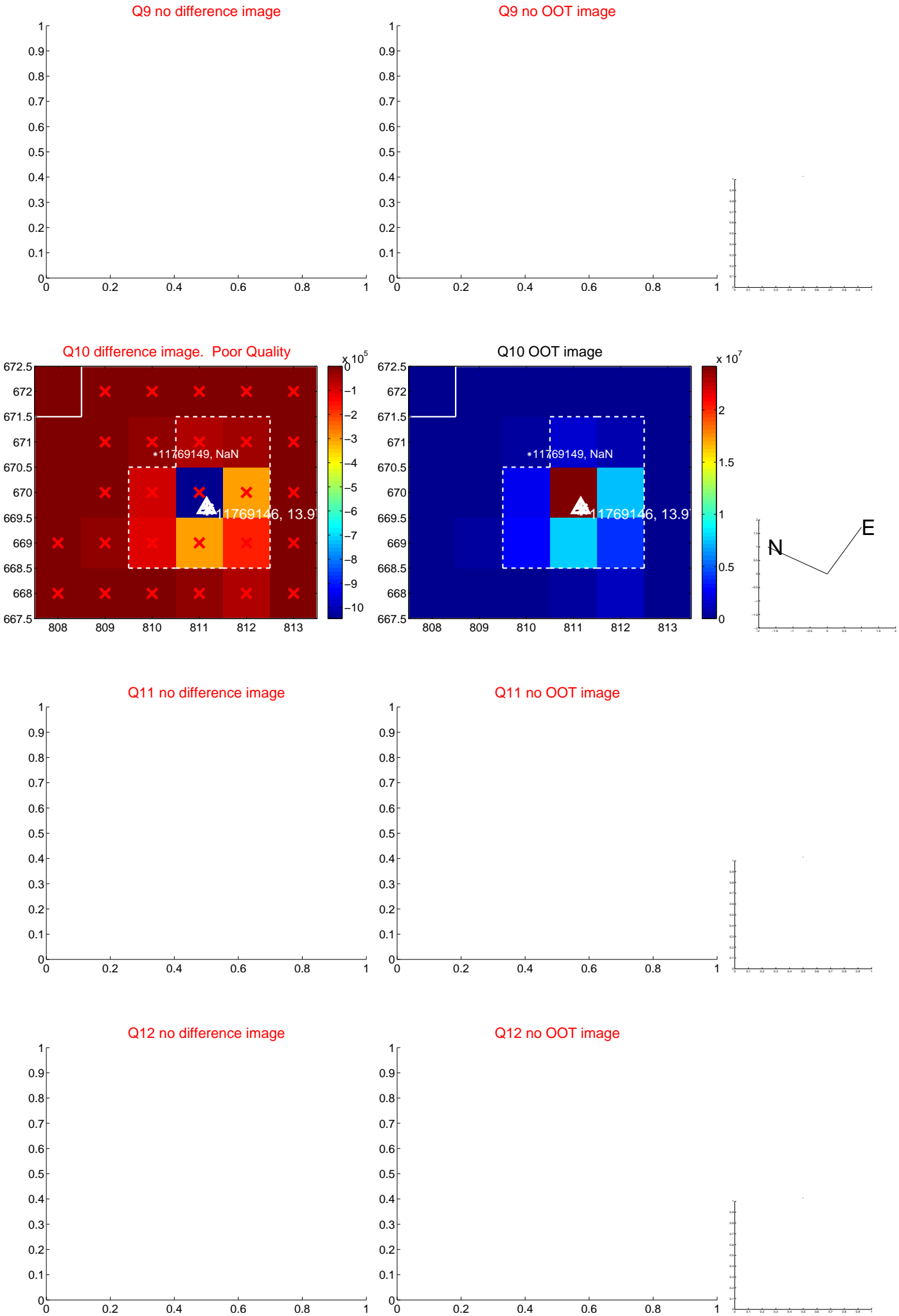
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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



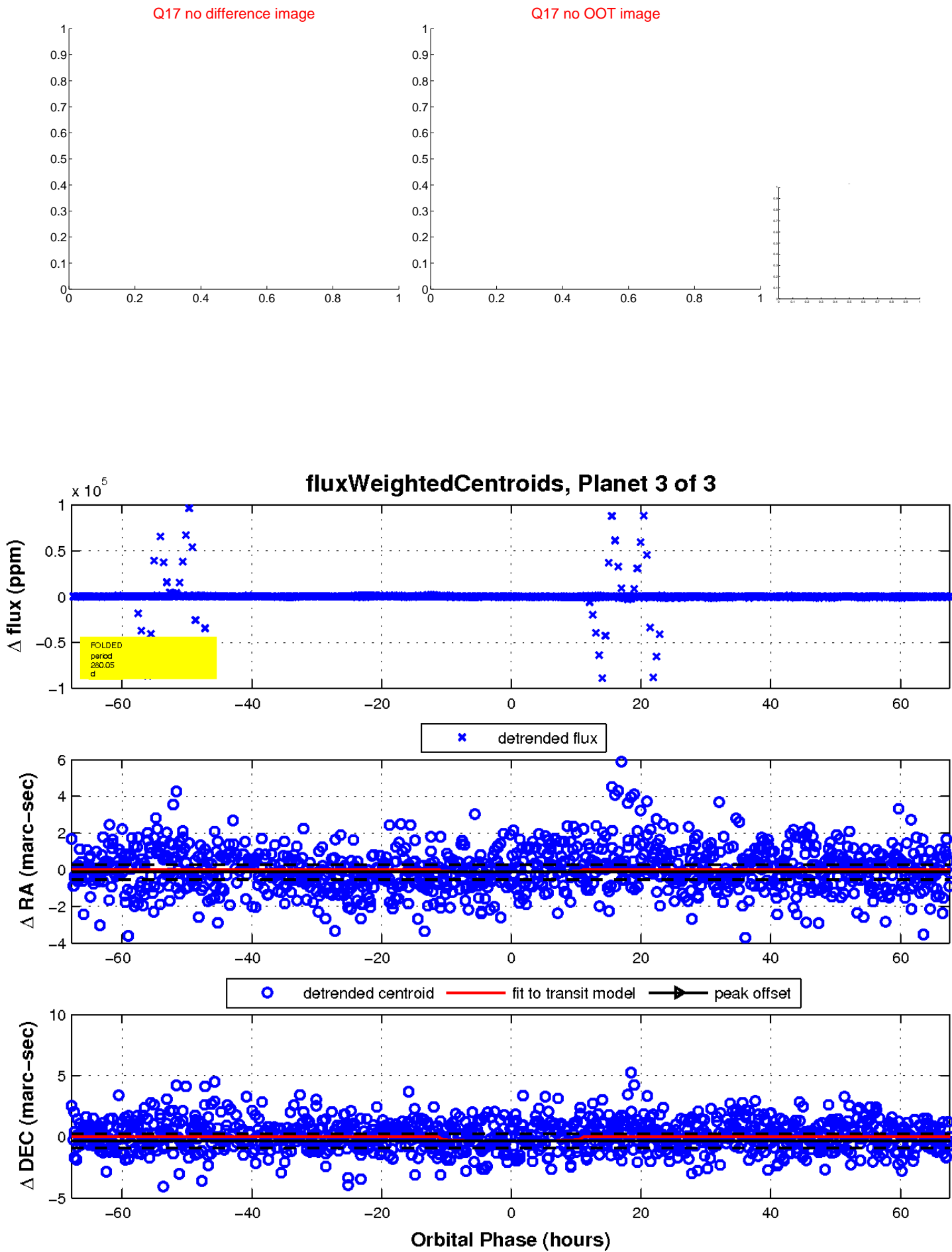
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

