

KIC 005770769

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})
005770769-01	OBS	No	186.368702	297.509088	2384.2	2.314	13.3	6.7	0.53	4623	2.52	0.42
005770769-02	OBS	No	1.212398	132.123866	432.5	5.815	9.2	12.5	0.53	4623	2.27	349.63
005770769-03	OBS	No	52.292579	134.084111	2625.4	2.000	10.4	-1.0	0.53	4623	2.65	2.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005770769-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
005770769-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005770769-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_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.

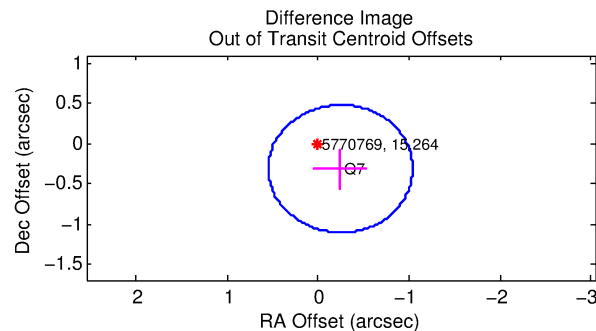
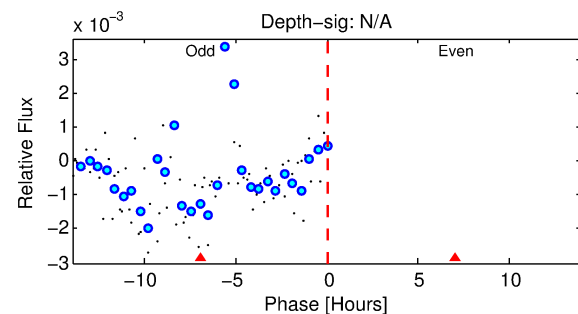
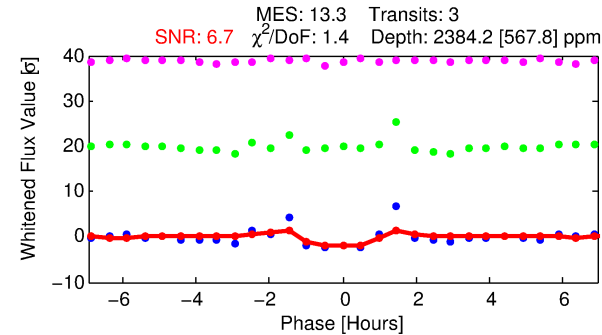
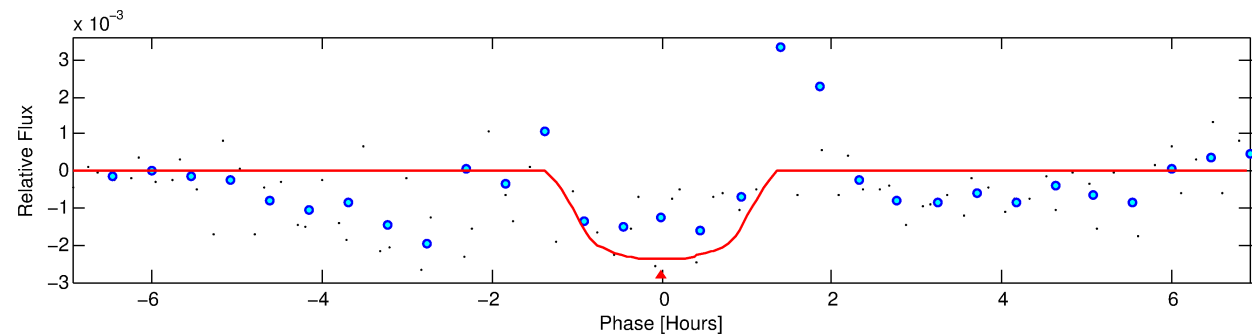
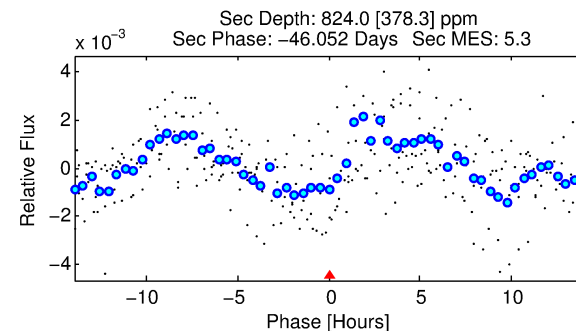
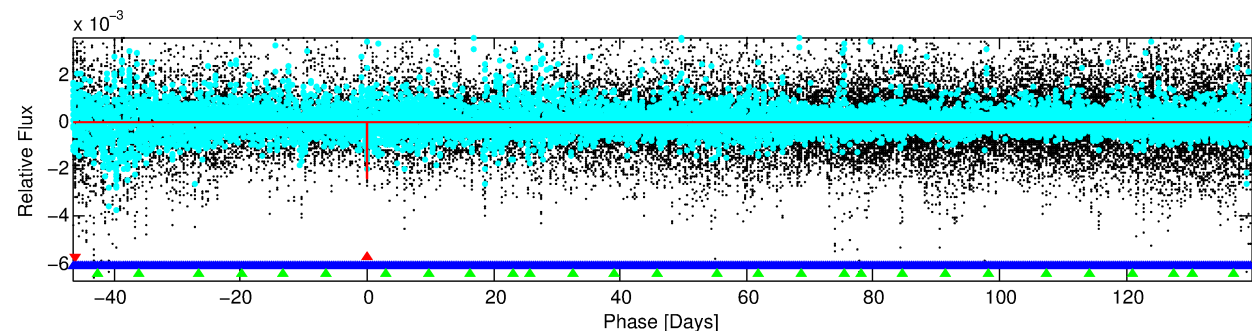
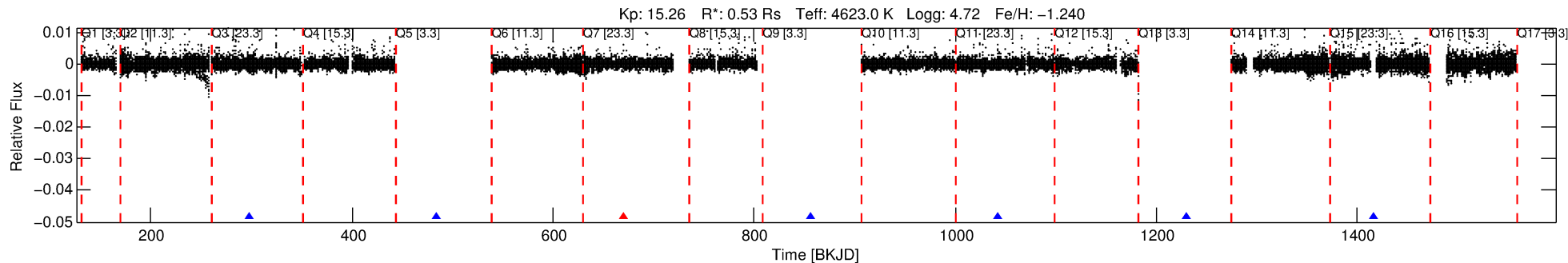
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005770769-01

No Significant Match Found

DV One-Page Summary

KIC: 5770769 Candidate: 1 of 3 Period: 186.369 d



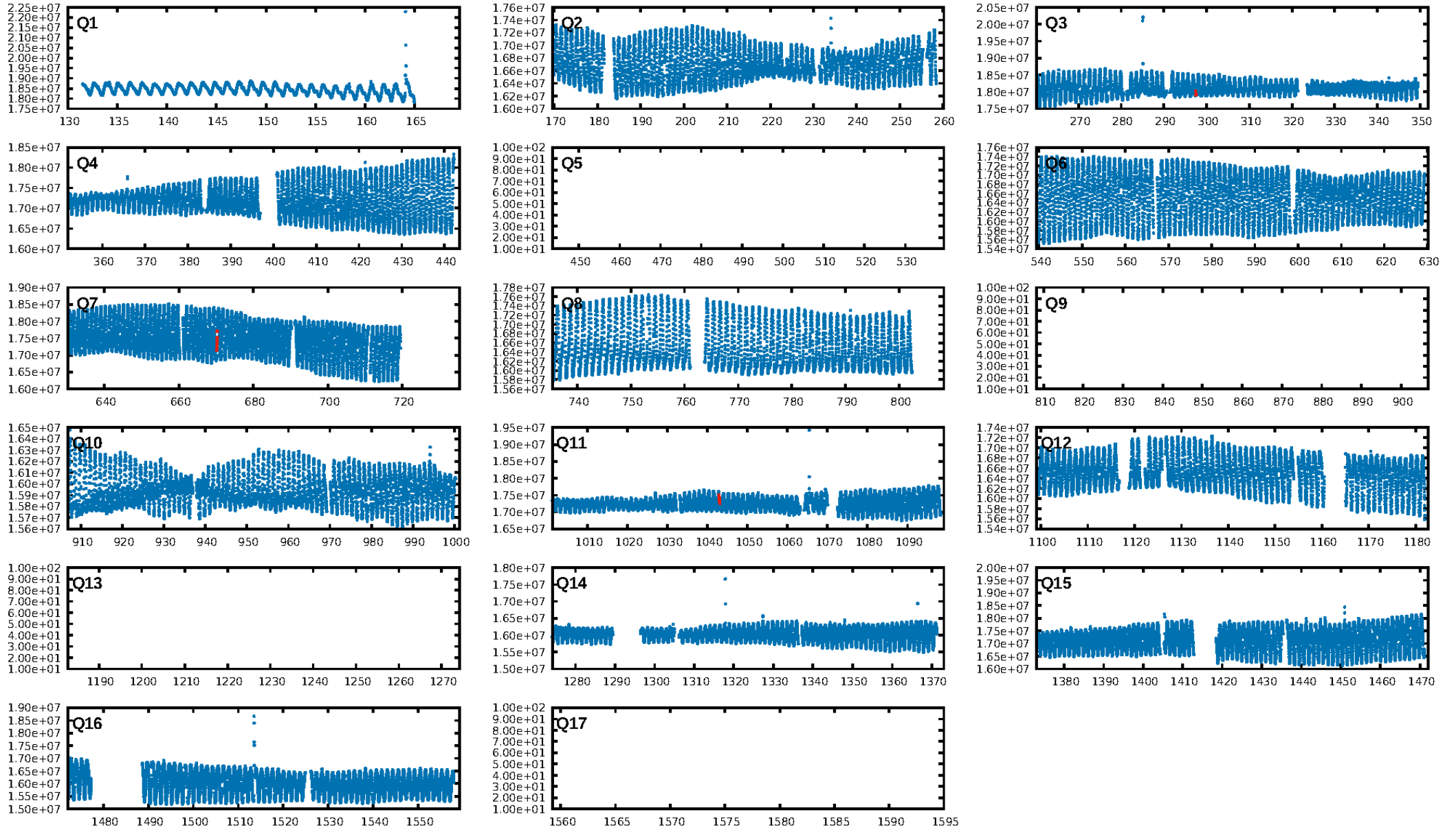
DV Fit Results:

Period = 186.36870 [0.00324] d
Epoch = 297.5091 [0.0075] BKJD
Rp/R* = 0.0438 [0.1053]
a/R* = 642.35 [5942.34]
b = 0.01 [1152.36]
Seff = 0.42 [0.06]
Teq = 206 [8] K
Rp = 2.52 [6.06] Re
a = 0.5174 [0.0308] AU
Ag = 19097.15 [92215.05] [0.21σ]
Teffp = 3741 [4517] K [0.78σ]

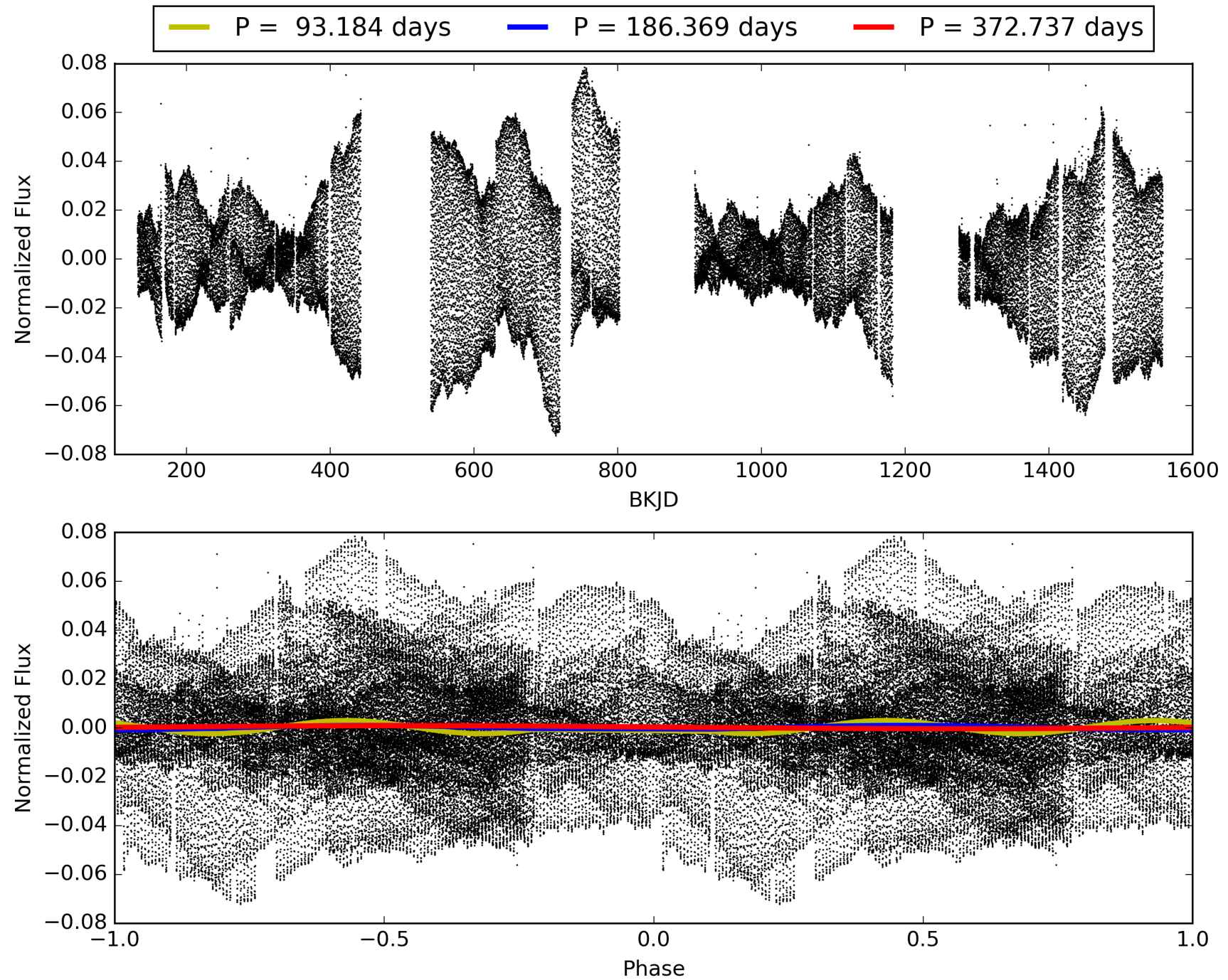
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [1052.20σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 4.6%
ModelChiSquareGof-sig: 63.3%
Bootstrap-pfa: 4.25e-16
RollingBand-fgt: 0.67 [2/3]
GhostDiagnostic-chr: -0.1207
Centroid-sig: 81.0%
Centroid-so: 0.342 arcsec [0.30σ]
OotOffset-rm: 0.399 arcsec [1.50σ]
KicOffset-rm: 0.424 arcsec [1.62σ]
OotOffset-st: 0/1/0/0 [1]
KicOffset-st: 0/1/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 0.33 [1/3]

TCE 005770769-01, PDC Light Curves

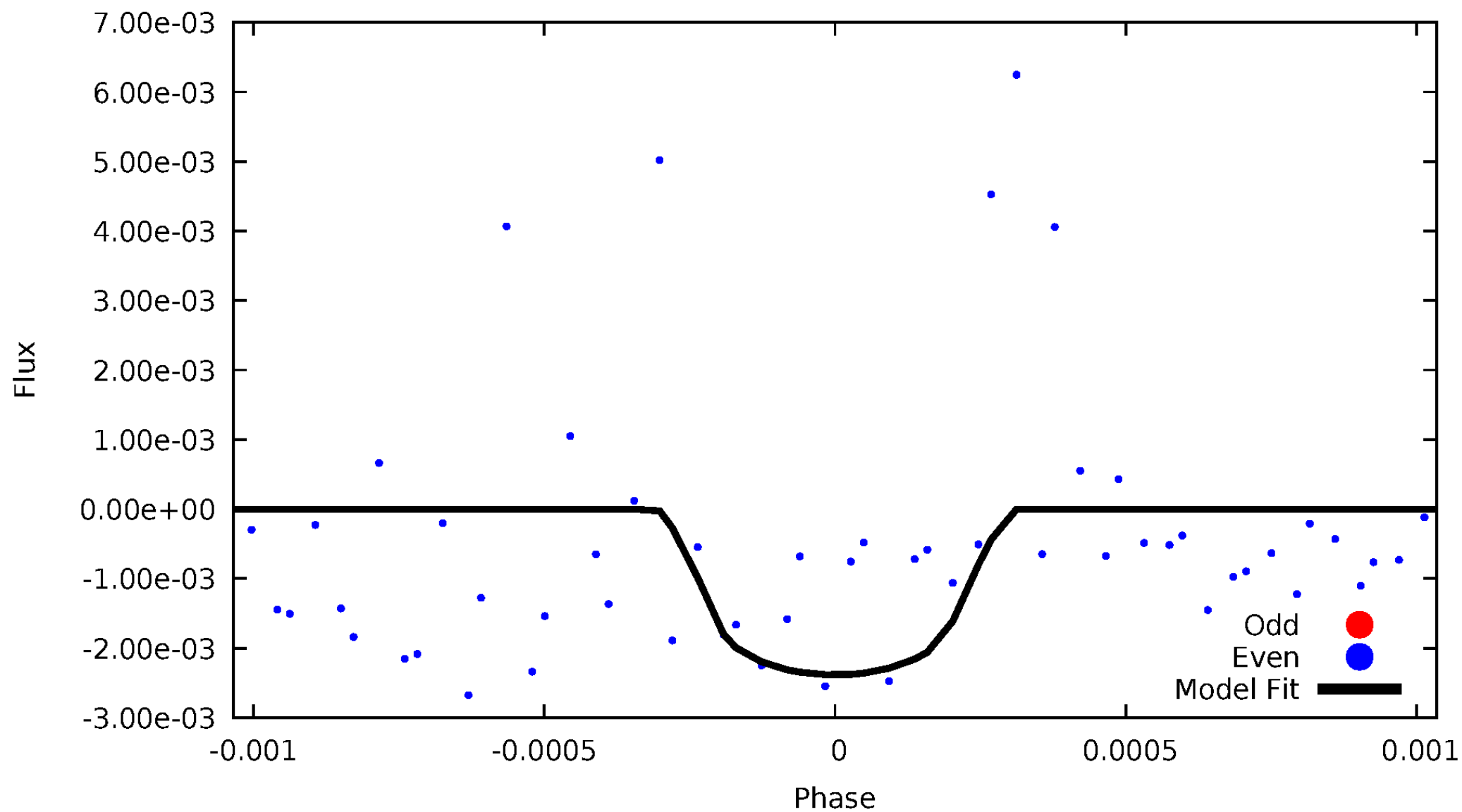


TCE 005770769-01



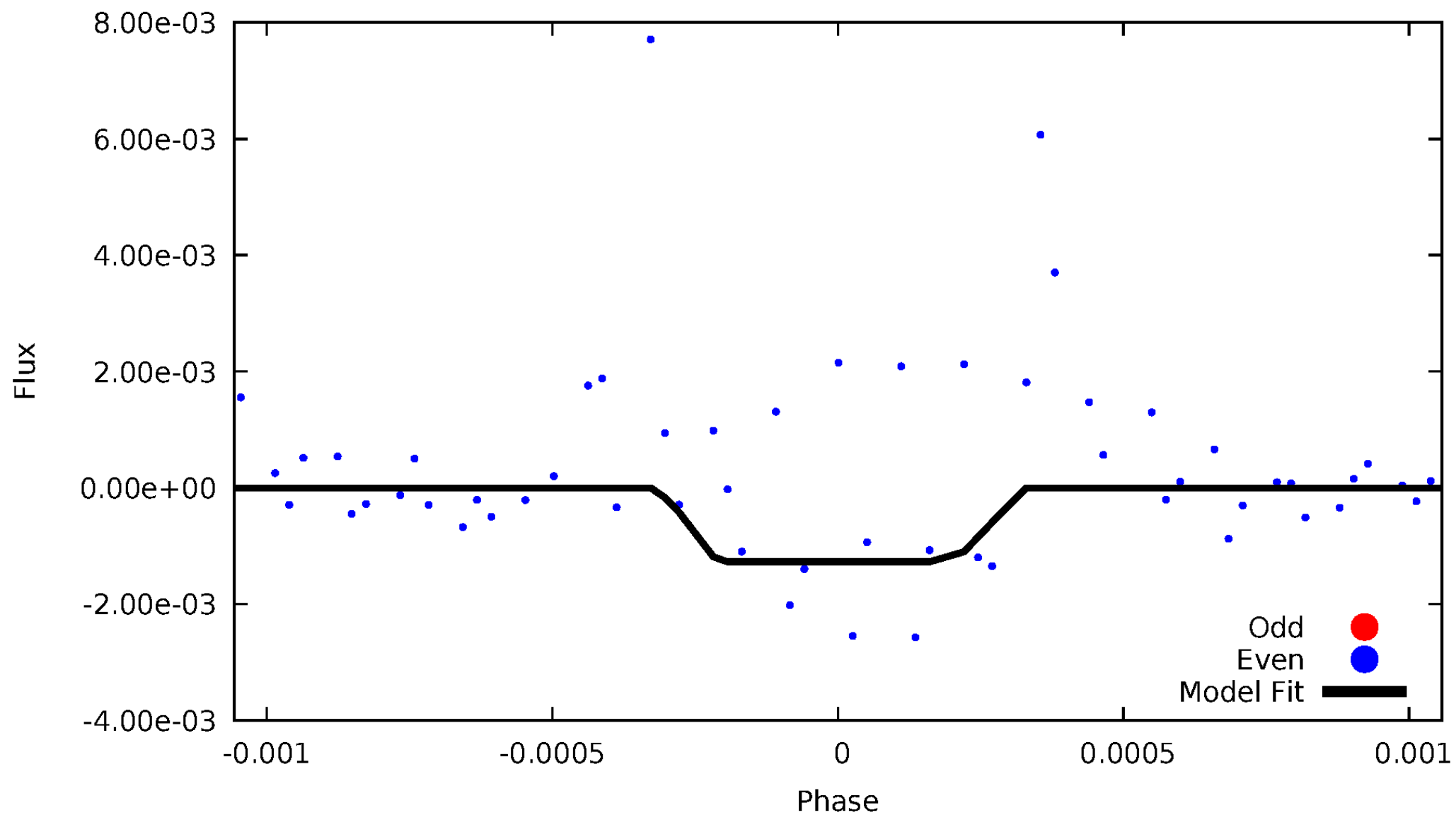
DV Odd/Even

TCE 005770769-01



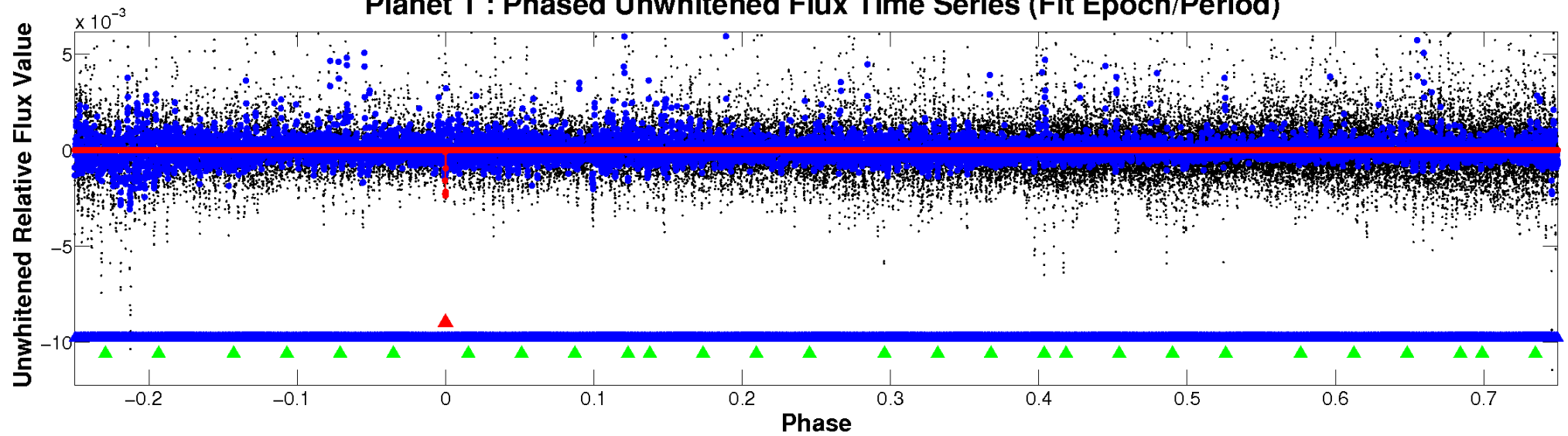
ALT Odd/Even

TCE 005770769-01

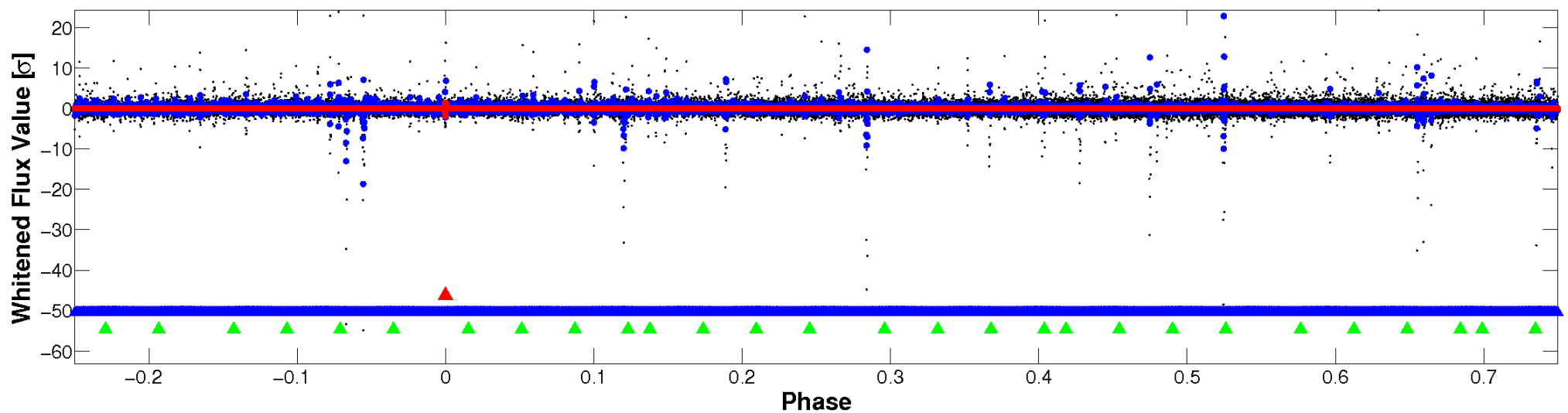


Non-Whitened Vs. Whitened Light Curve

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

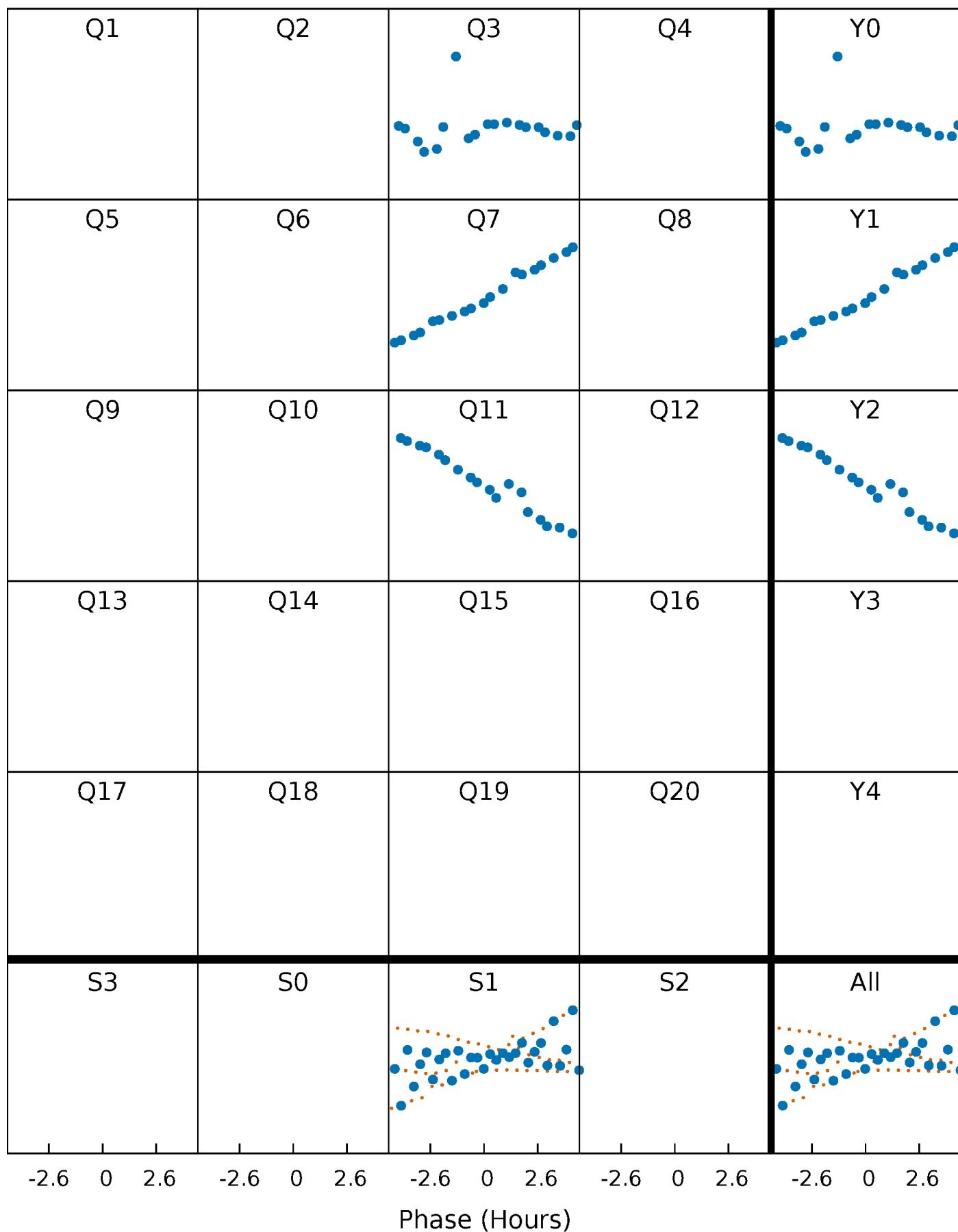


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



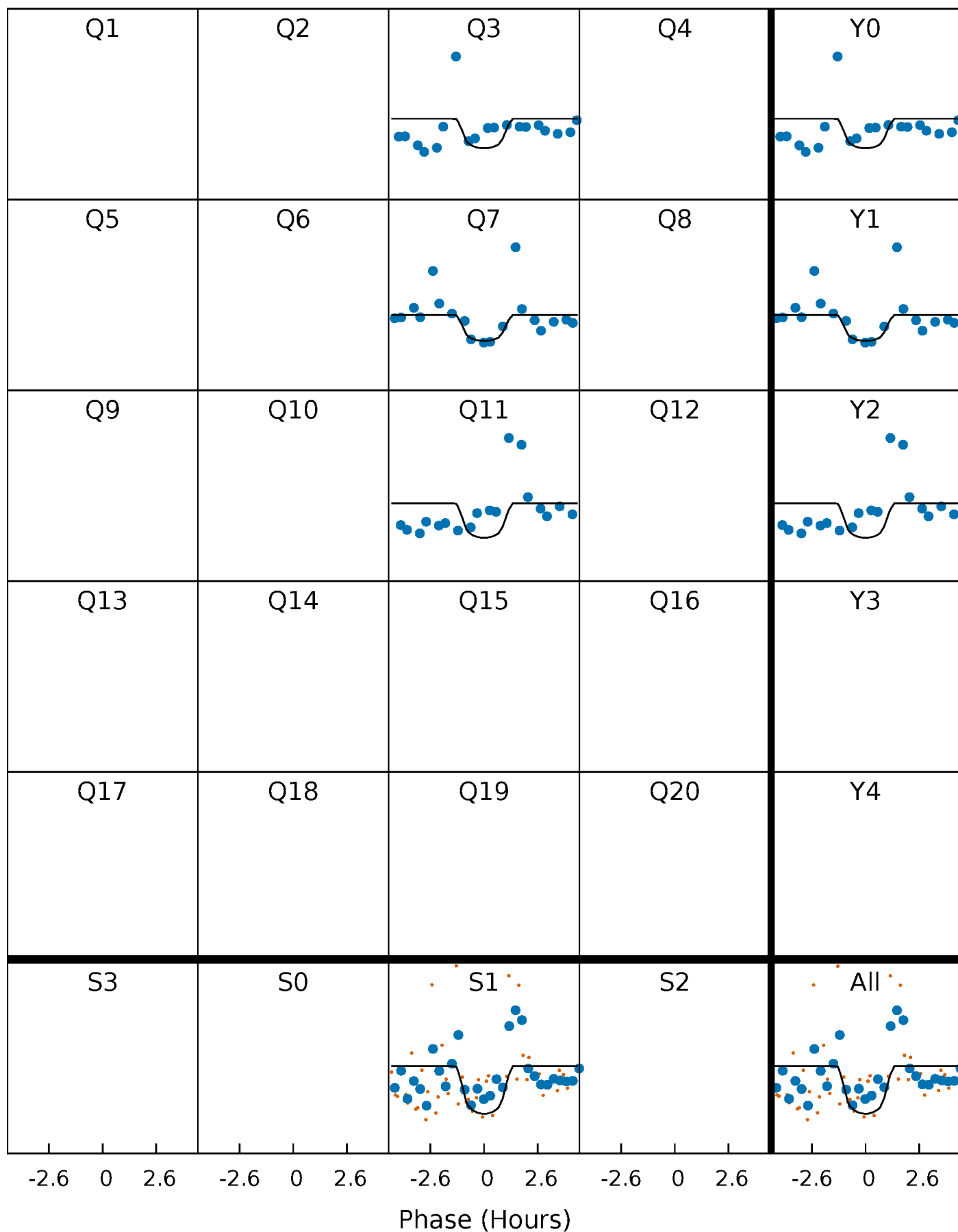
PDC Quarter-Phased Transit Curves

TCE 005770769-01 P=186.368702 Days $T_0=297.509088$ (BKJD)



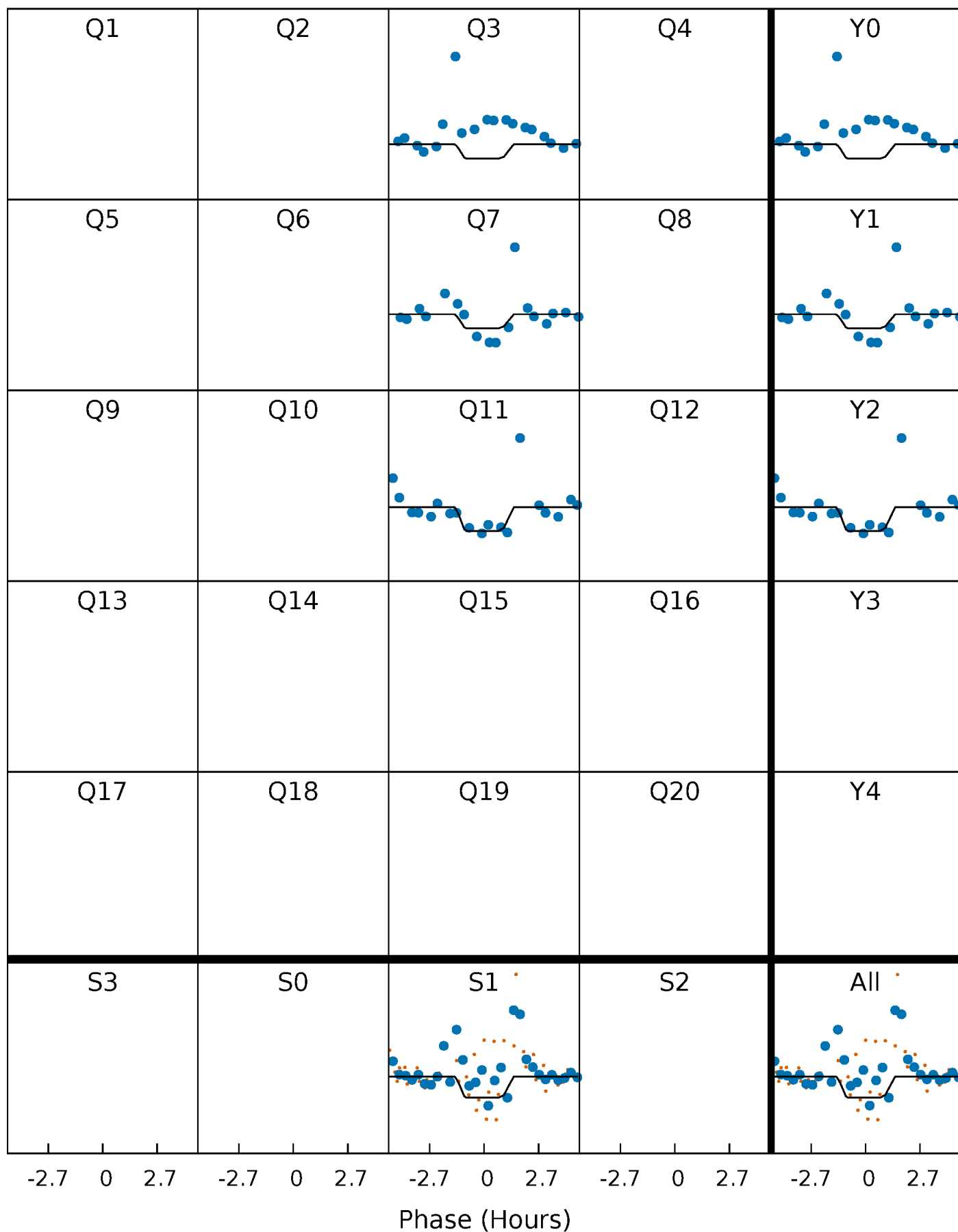
DV Quarter-Phased Transit Curves

TCE 005770769-01 P=186.368702 Days $T_0=297.509088$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

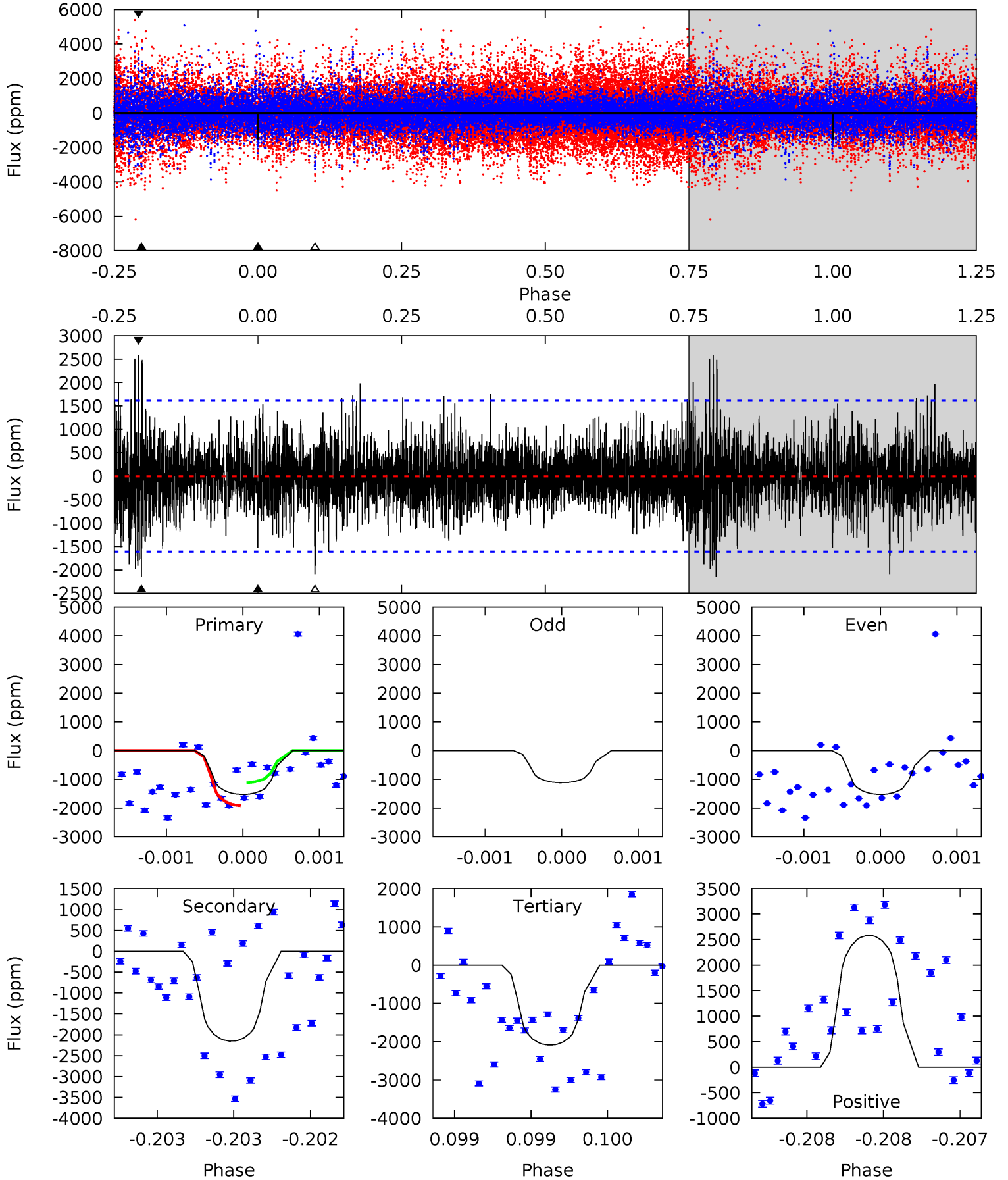
TCE 005770769-01 P=186.362301 Days $T_0=297.513978$ (BKJD)



DV Model-Shift Uniqueness Test

005770769-01, P = 186.368702 Days, E = 111.140386 Days

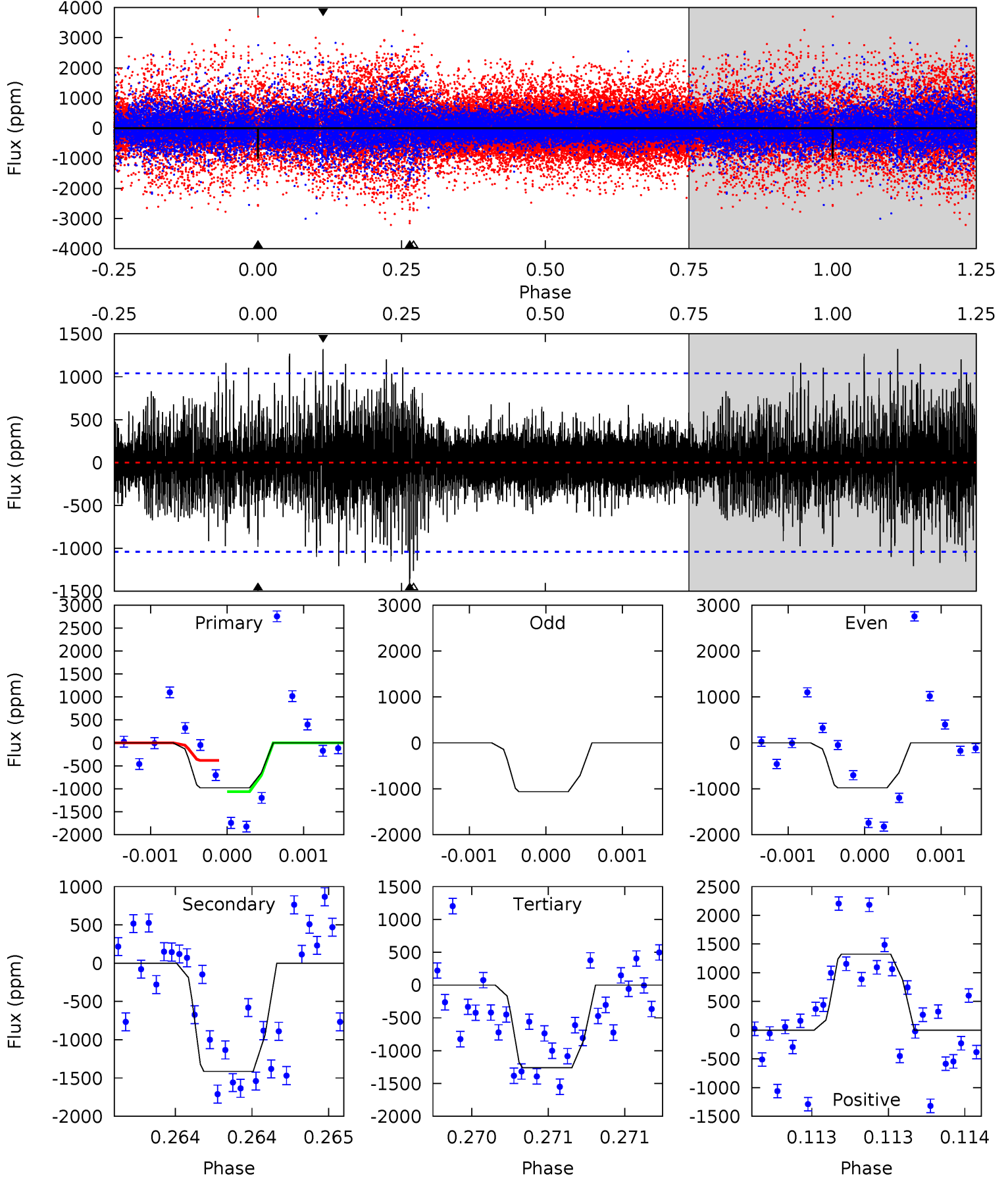
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.27	7.42	7.20	8.90	5.56	3.46	1.59	-1.93	-3.63	0.22	-1.48	0.83	1.12	0.55	1.39



Alt Model-Shift Uniqueness Test

005770769-01, P = 186.362301 Days, E = 111.151677 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.24	7.56	6.74	7.08	5.56	3.46	1.31	-1.50	-1.84	0.82	0.48	0.25	0.32	0.48	1.91



Stellar Parameters For KIC 005770769

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4623^{+139}_{-139}	$4.720^{+0.048}_{-0.028}$	$-1.240^{+0.300}_{-0.300}$	$0.527^{+0.033}_{-0.037}$	$0.531^{+0.039}_{-0.022}$	$5.112^{+1.009}_{-0.579}$
	+3%/-3%	+1%/-1%	+24%/-24%	+6%/-7%	+7%/-4%	+20%/-11%
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 005770769-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-2152 ± 290	$5.00^{+4.87}_{-3.45}$	287^{+9}_{-9}	3689^{+2123}_{-696}	$12756^{+117038}_{-9500}$
Alt.	-1413 ± 187	$4.78^{+4.65}_{-3.39}$	287^{+11}_{-10}	3488^{+2134}_{-620}	$9318^{+104533}_{-6860}$

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

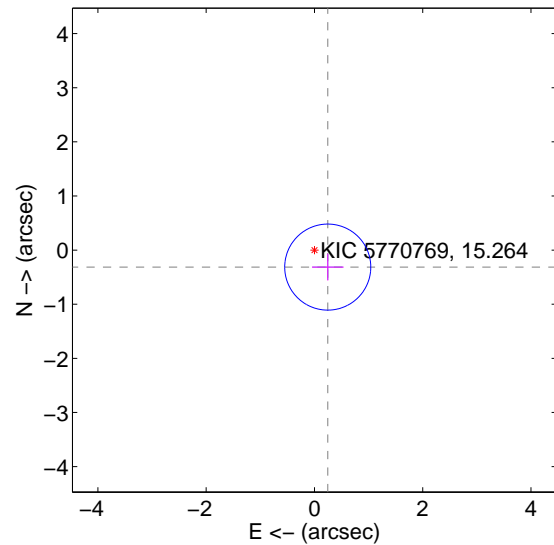
Supplemental centroid analysis for 005770769-01. Kepler magnitude: 15.26. Transit SNR 6.70

There are 1 quarters with good PRF difference image offsets

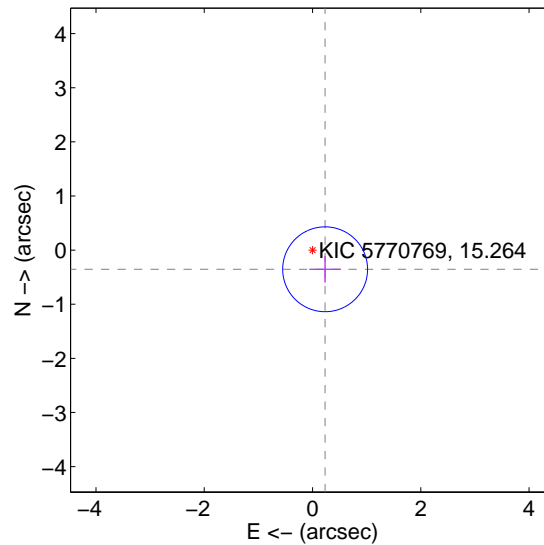
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.399 ± 0.265	1.50	-0.246 ± 0.292	-0.314 ± 0.247
PRF-fit source offset from KIC position	0.424 ± 0.261	1.62	-0.233 ± 0.292	-0.354 ± 0.247
photometric centroid source offset	0.34 ± 1.13	0.30	0.28 ± 1.17	0.19 ± 1.04

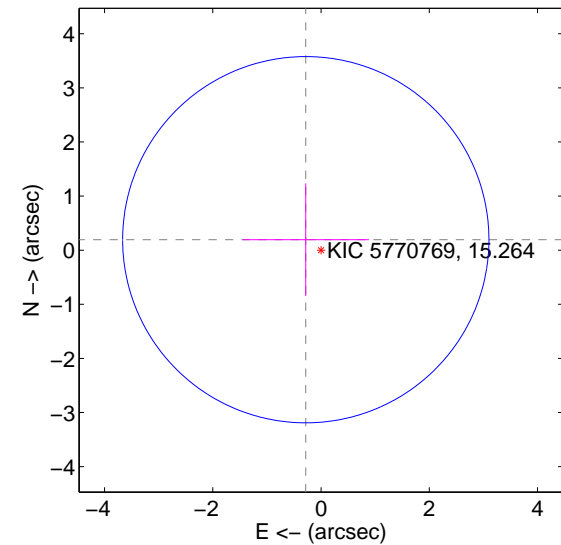
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

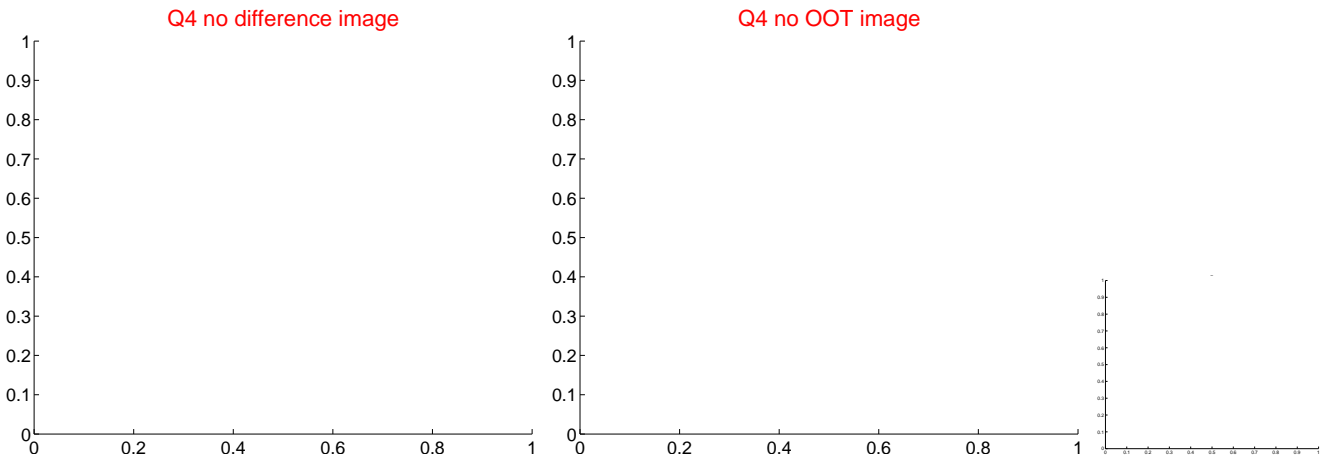
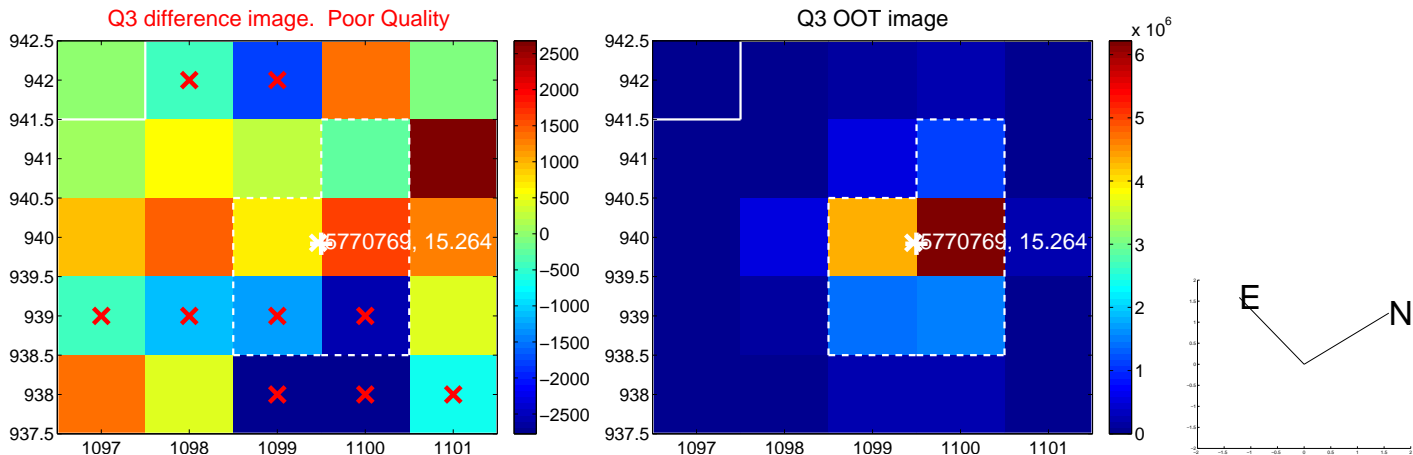


offset from photometric centroids

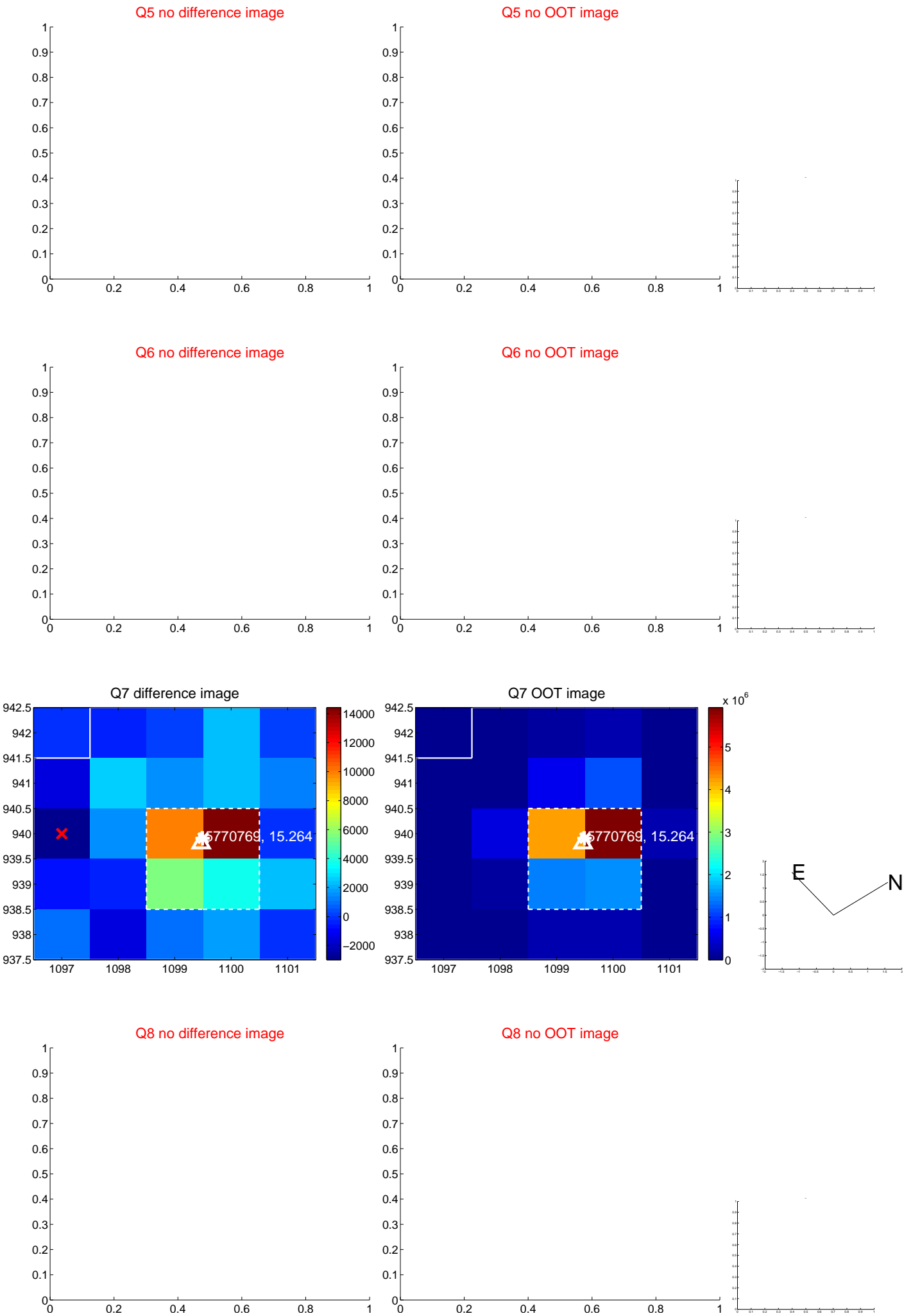


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

Q9 no difference image



Q9 no OOT image



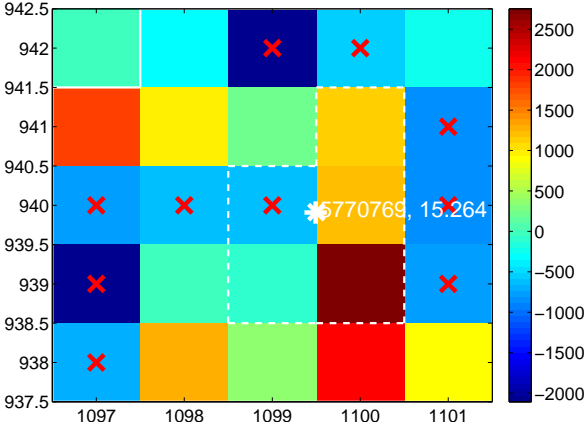
Q10 no difference image



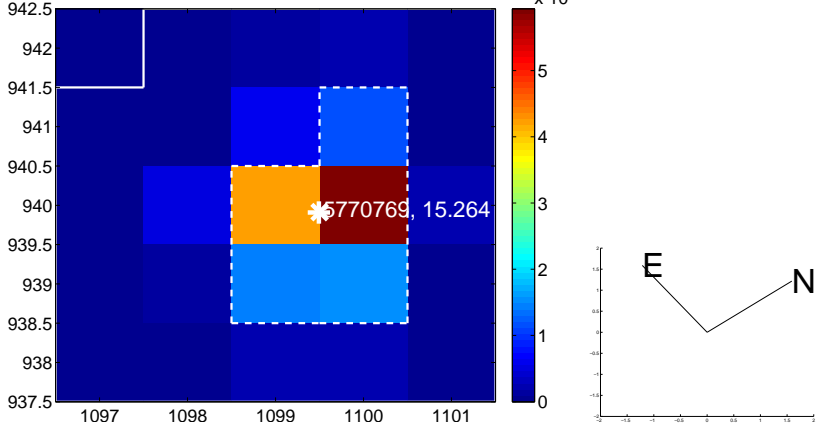
Q10 no OOT image



Q11 difference image. Poor Quality



Q11 OOT image



Q12 no difference image



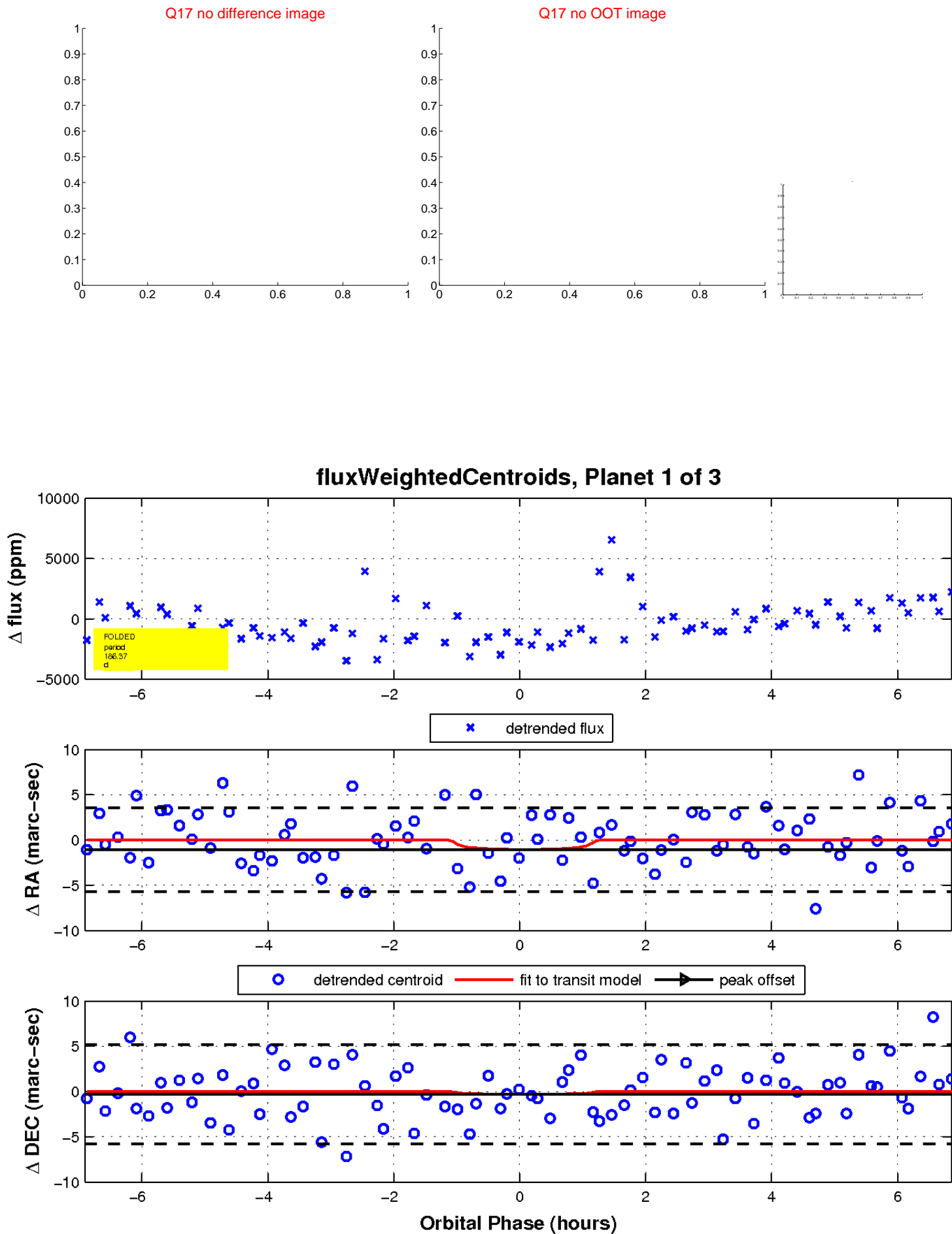
Q12 no OOT image



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

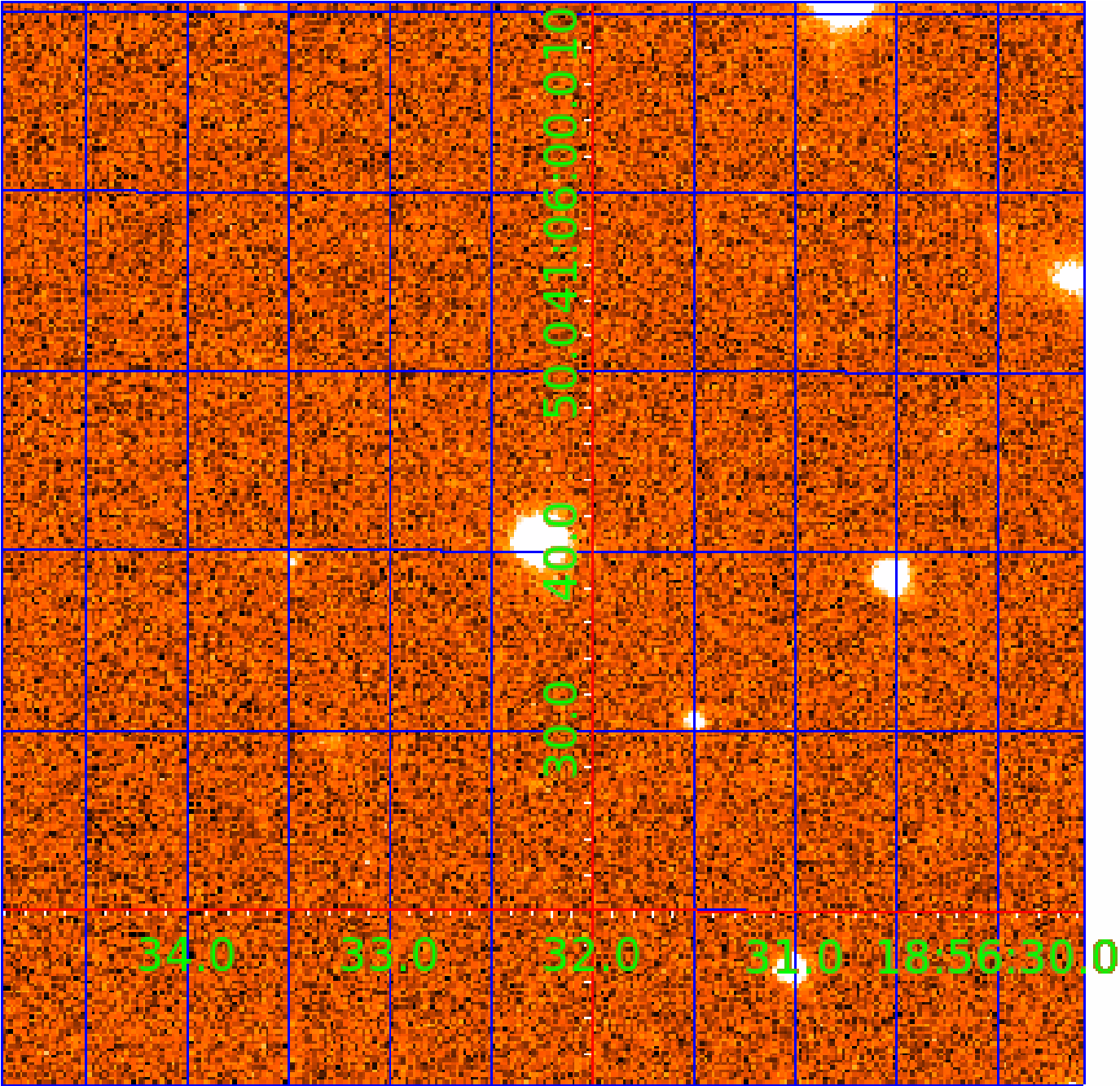


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005770769

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})
005770769-01	OBS	No	186.368702	297.509088	2384.2	2.314	13.3	6.7	0.53	4623	2.52	0.42
005770769-02	OBS	No	1.212398	132.123866	432.5	5.815	9.2	12.5	0.53	4623	2.27	349.63
005770769-03	OBS	No	52.292579	134.084111	2625.4	2.000	10.4	-1.0	0.53	4623	2.65	2.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005770769-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
005770769-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005770769-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_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.

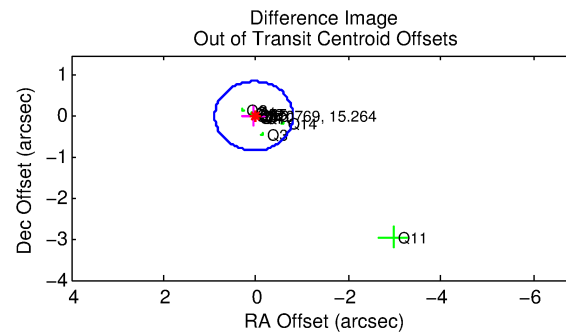
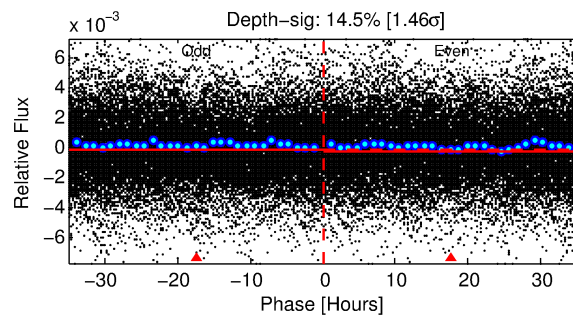
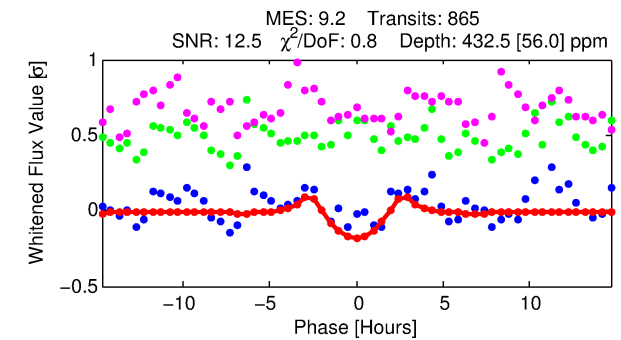
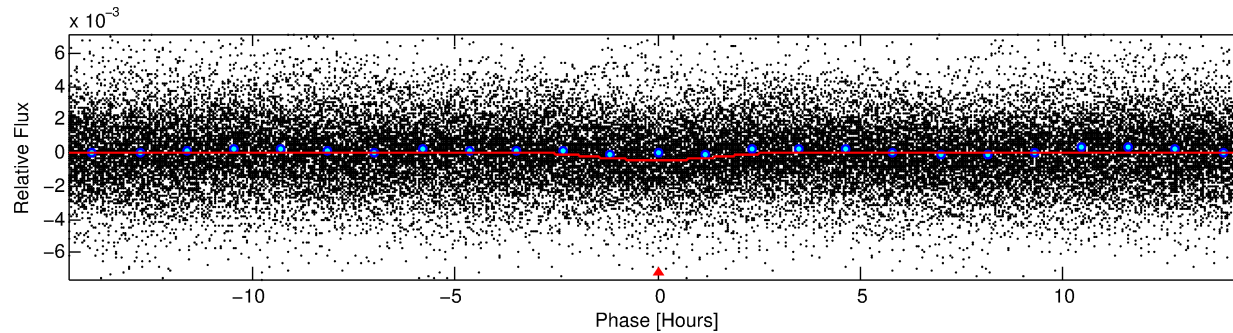
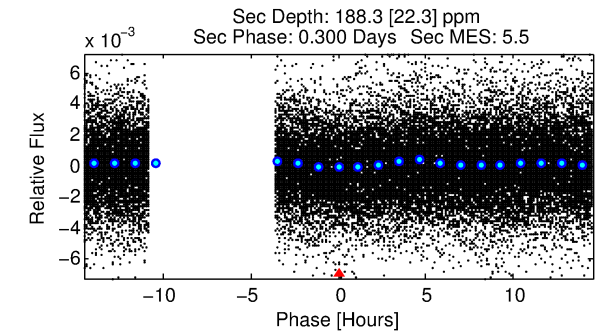
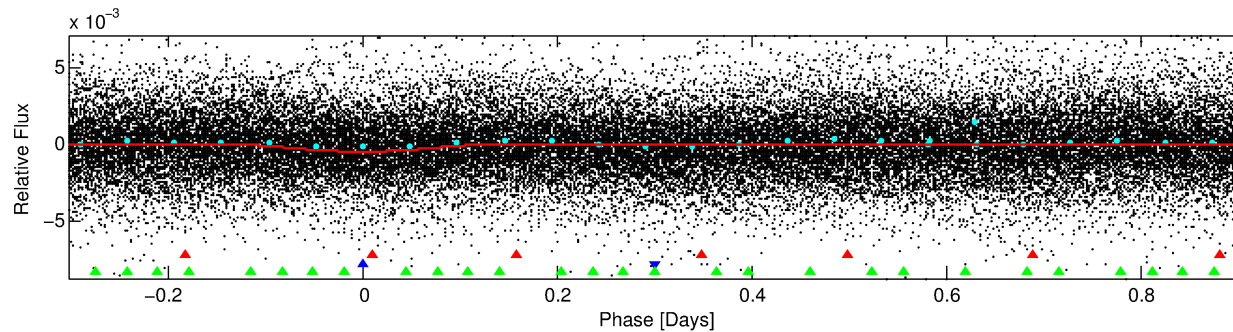
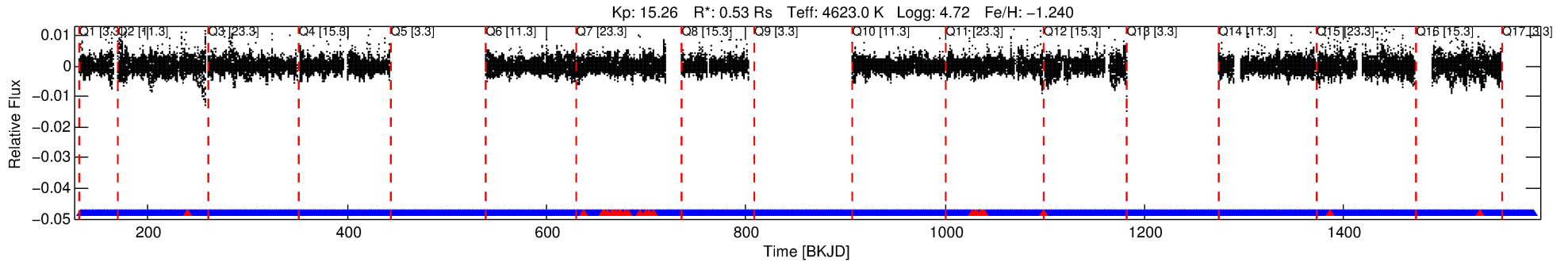
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005770769-02

No Significant Match Found

DV One-Page Summary

KIC: 5770769 Candidate: 2 of 3 Period: 1.212 d



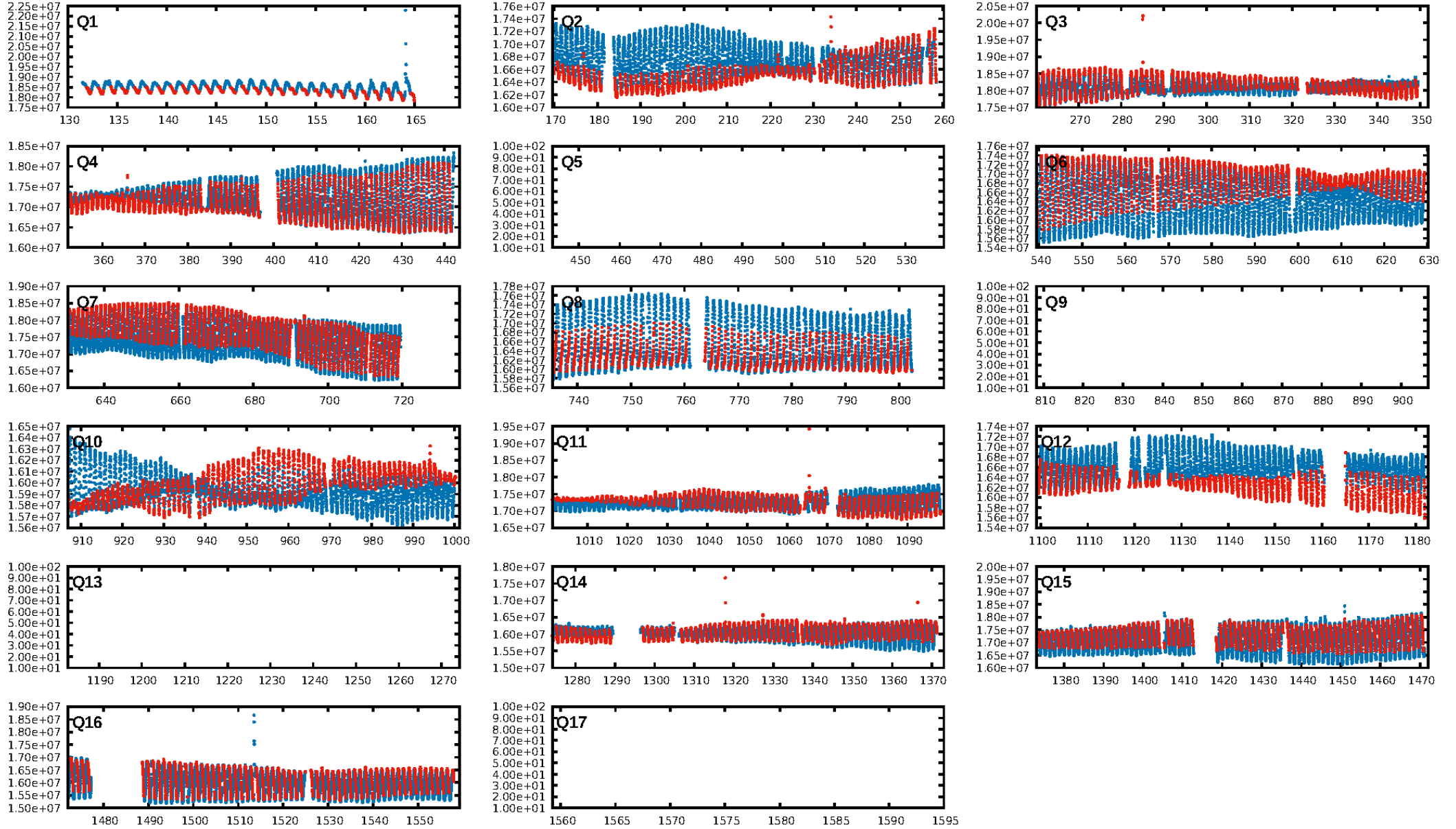
DV Fit Results:

Period = 1.21240 [0.00001] d
Epoch = 132.1239 [0.0040] BKJD
Rp/R* = 0.0394 [0.0363]
a/R* = 1.11 [0.01]
b = 1.00 [0.05]
Seff = 349.63 [51.96]
Teff = 1103 [41] K
Rp = 2.27 [2.10] Re
a = 0.0180 [0.0011] AU
Ag = 6.54 [12.10] [0.46σ]
Teffp = 2727 [1261] K [1.29σ]

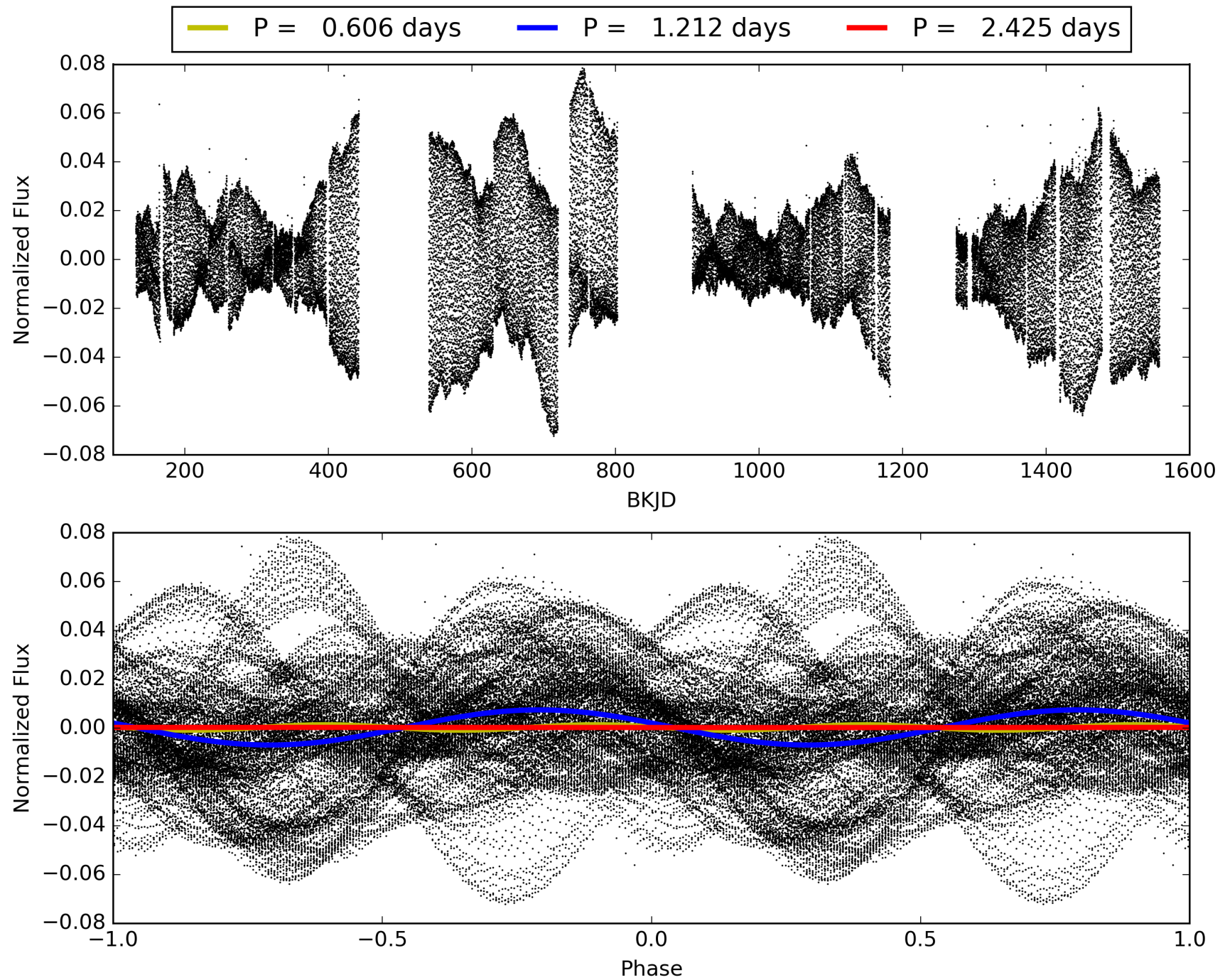
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [199.37σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 8.65e-18
RollingBand-fgt: 0.97 [812/837]
GhostDiagnostic-chr: 0.6148
Centroid-sig: 4.1%
Centroid-so: 0.322 arcsec [1.07σ]
OotOffset-rm: 0.054 arcsec [0.19σ]
KicOffset-rm: 0.149 arcsec [0.59σ]
OotOffset-st: 4/4/4/1 [13]
KicOffset-st: 4/4/4/1 [13]
DiffImageQuality-fgm: 0.38 [5/13]
DiffImageOverlap-fno: 1.00 [13/13]

TCE 005770769-02, PDC Light Curves

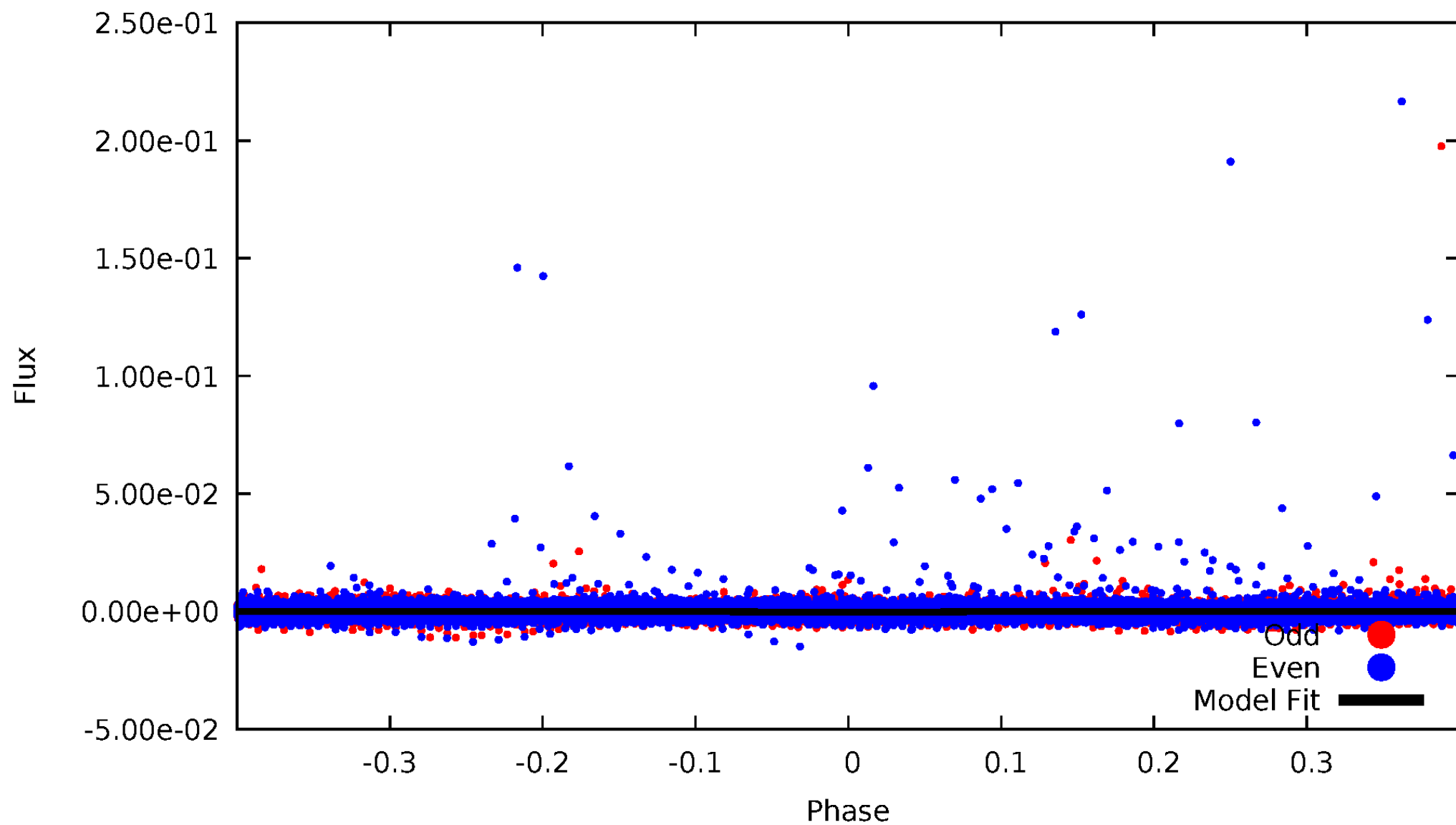


TCE 005770769-02



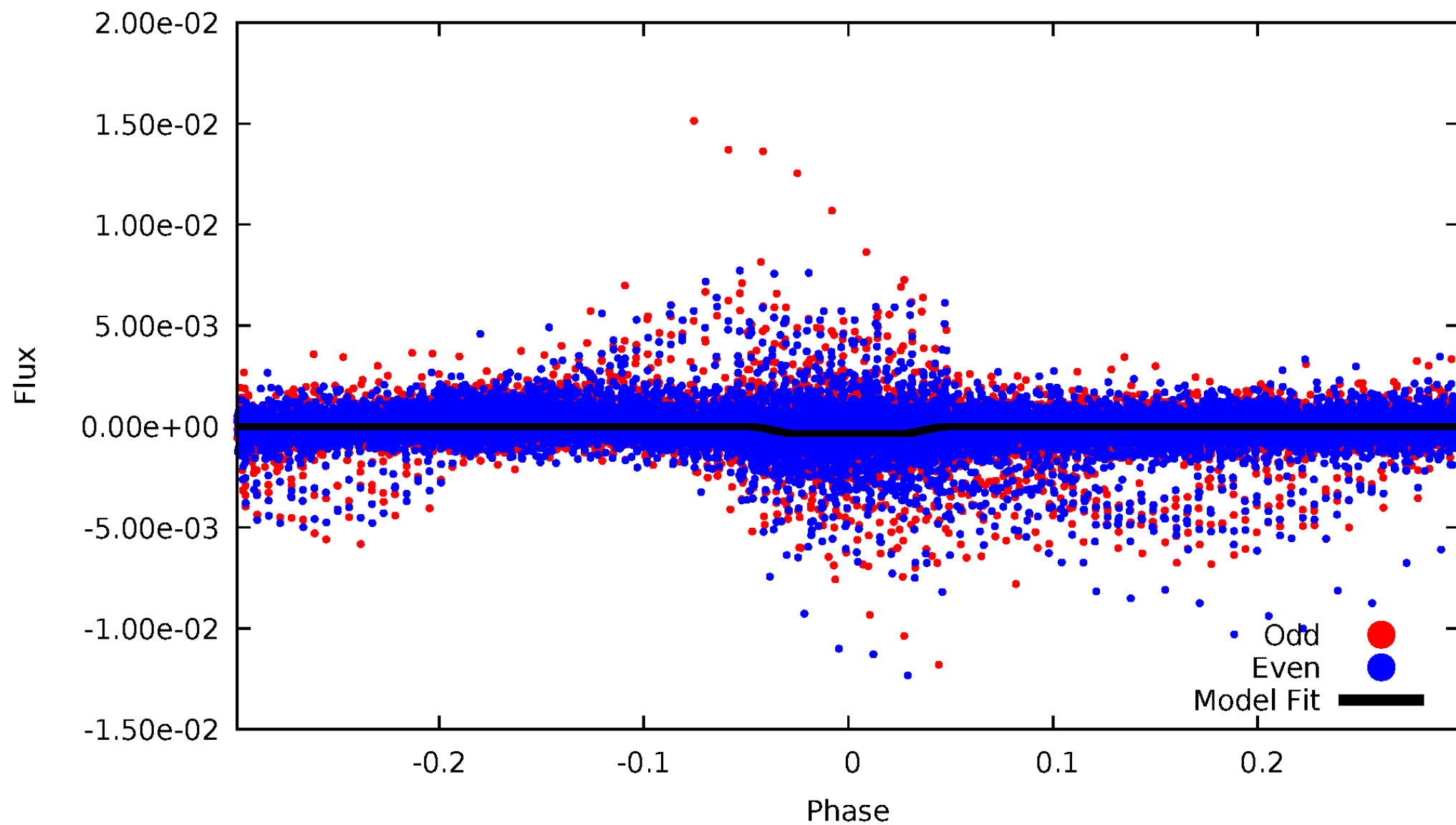
DV Odd/Even

TCE 005770769-02



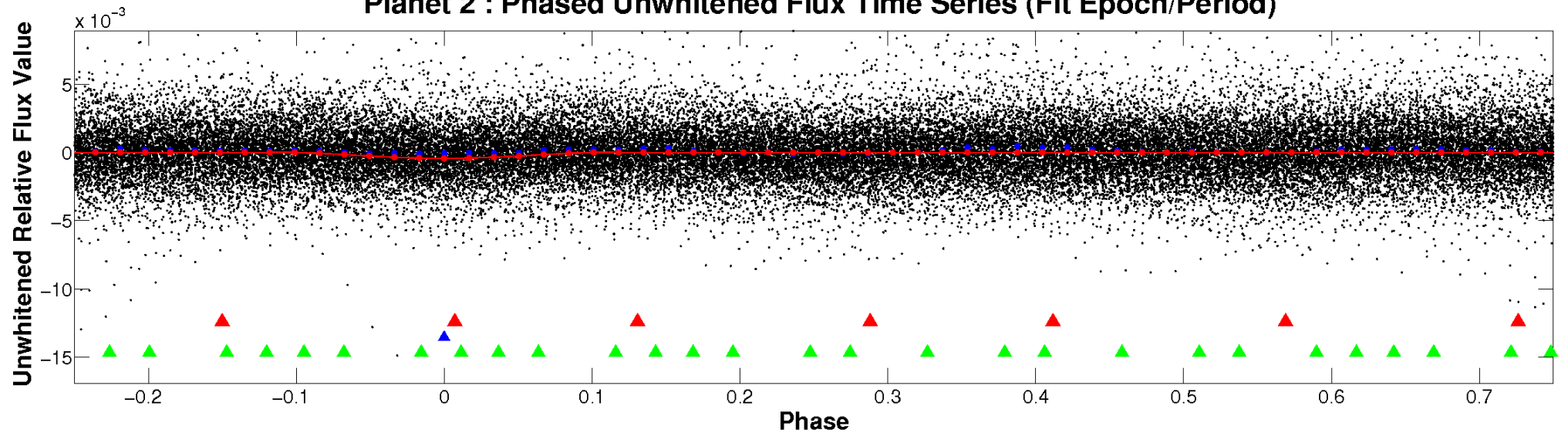
ALT Odd/Even

TCE 005770769-02

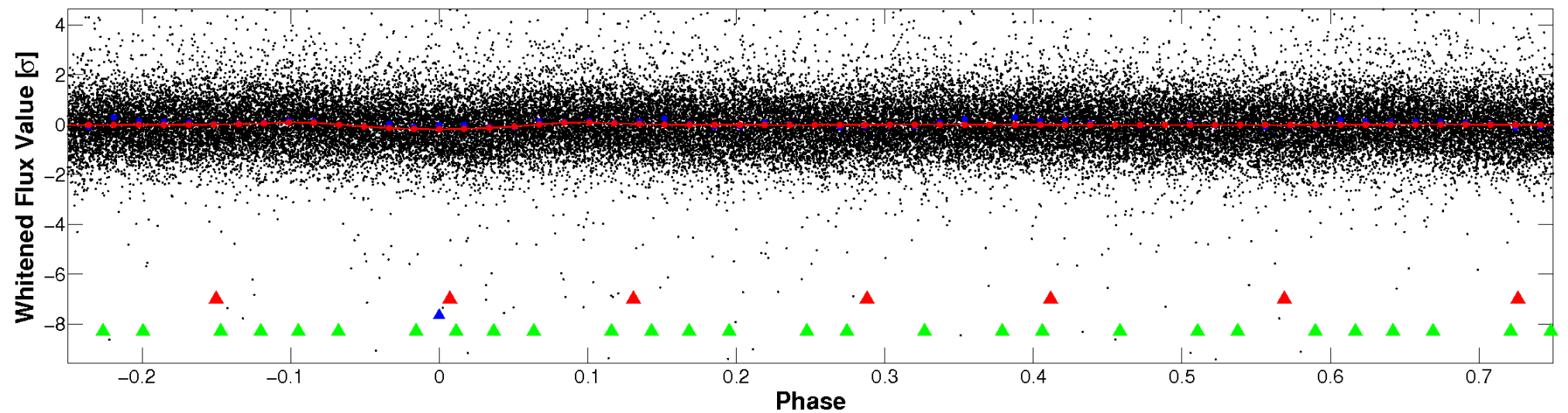


Non-Whitened Vs. Whitened Light Curve

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

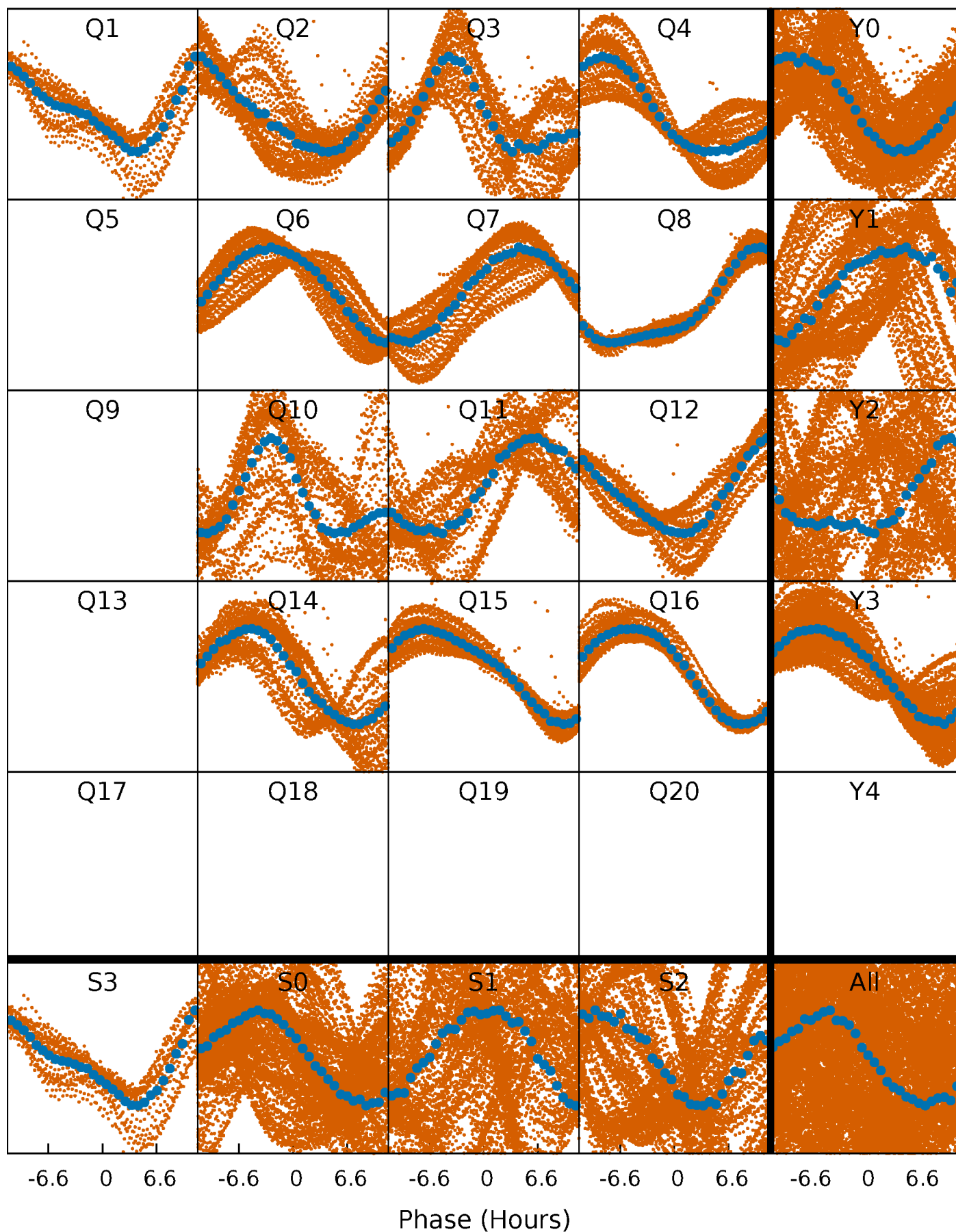


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



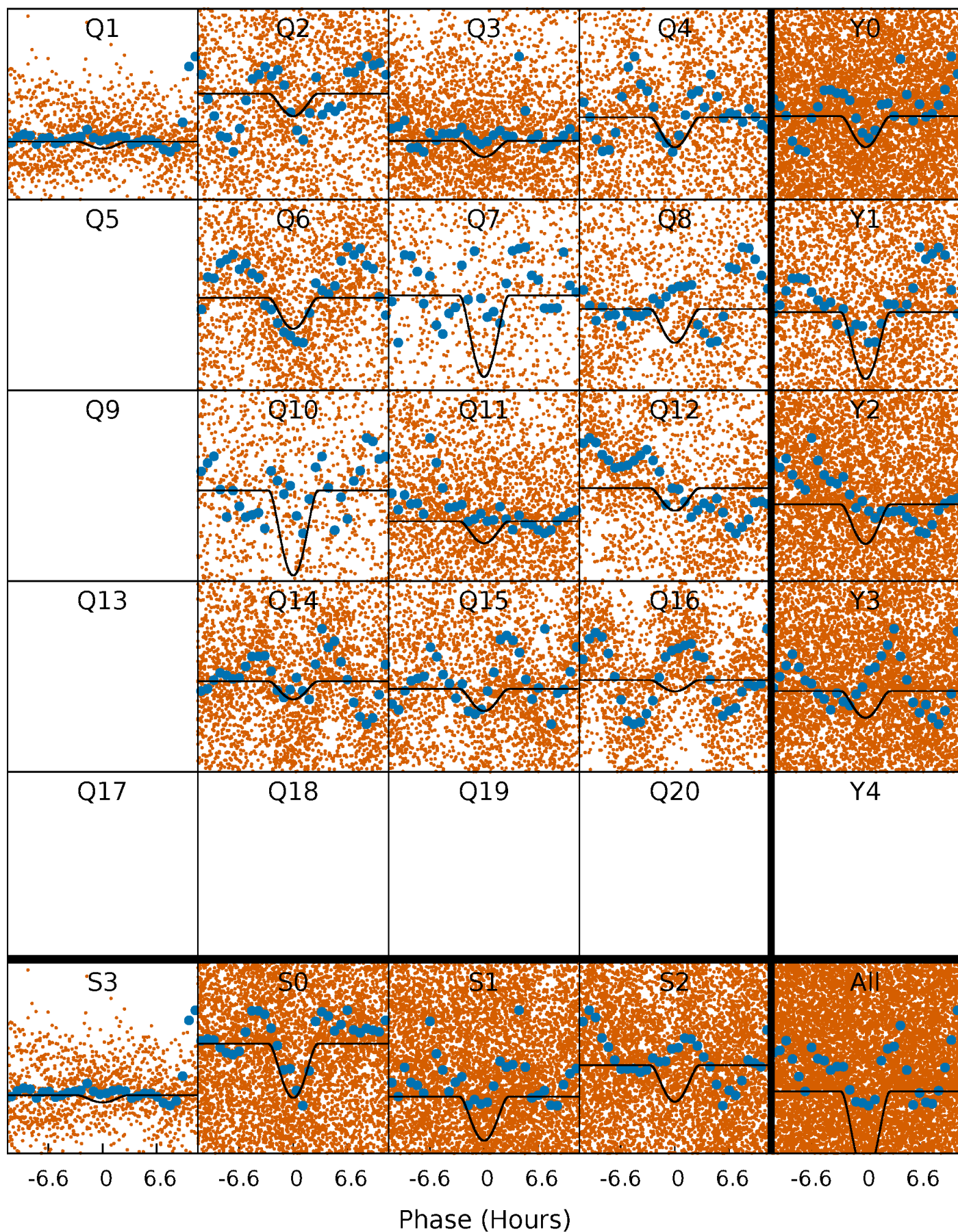
PDC Quarter-Phased Transit Curves

TCE 005770769-02 P= 1.212398 Days $T_0=132.123866$ (BKJD)



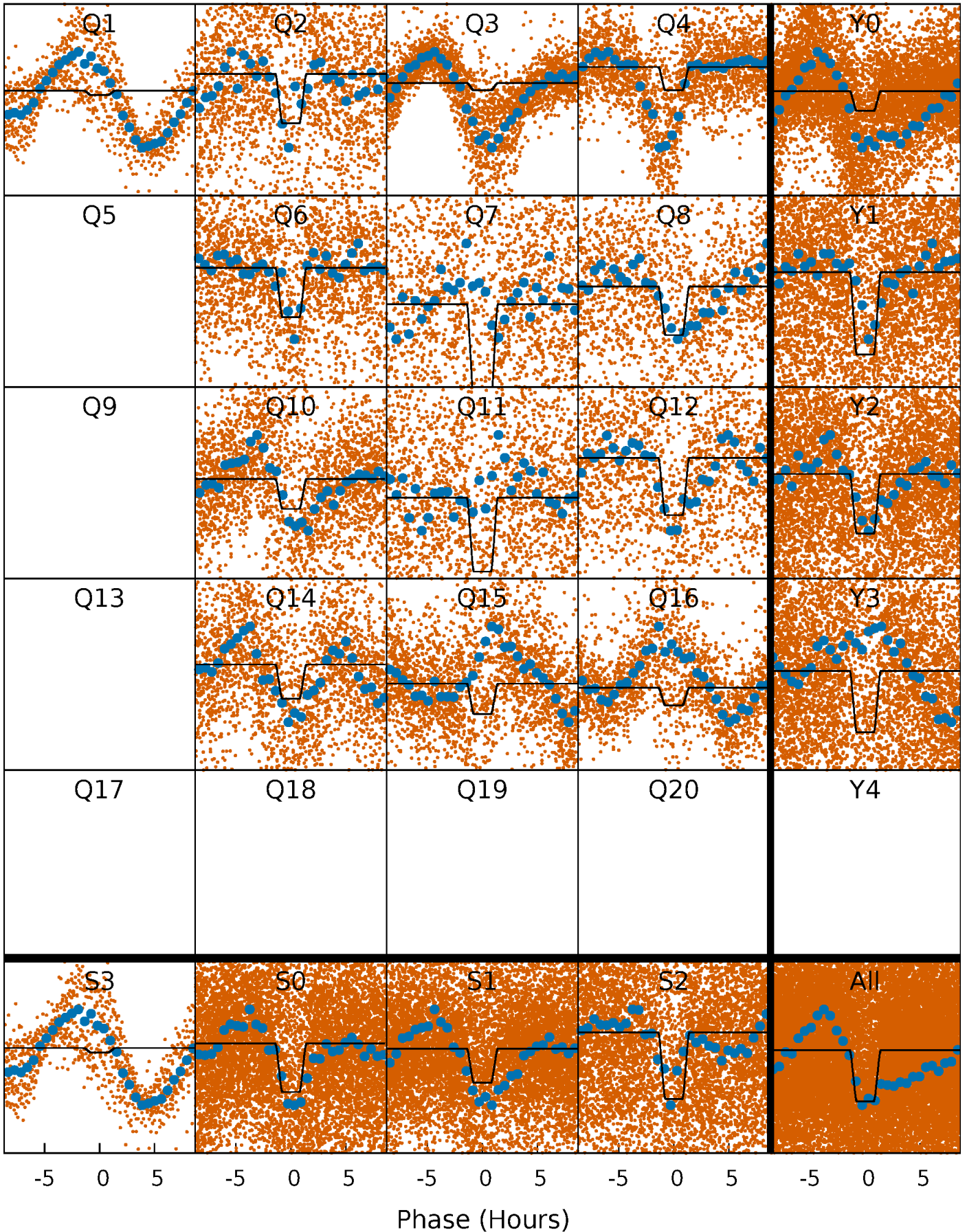
DV Quarter-Phased Transit Curves

TCE 005770769-02 $P = 1.212398$ Days $T_0 = 132.123866$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

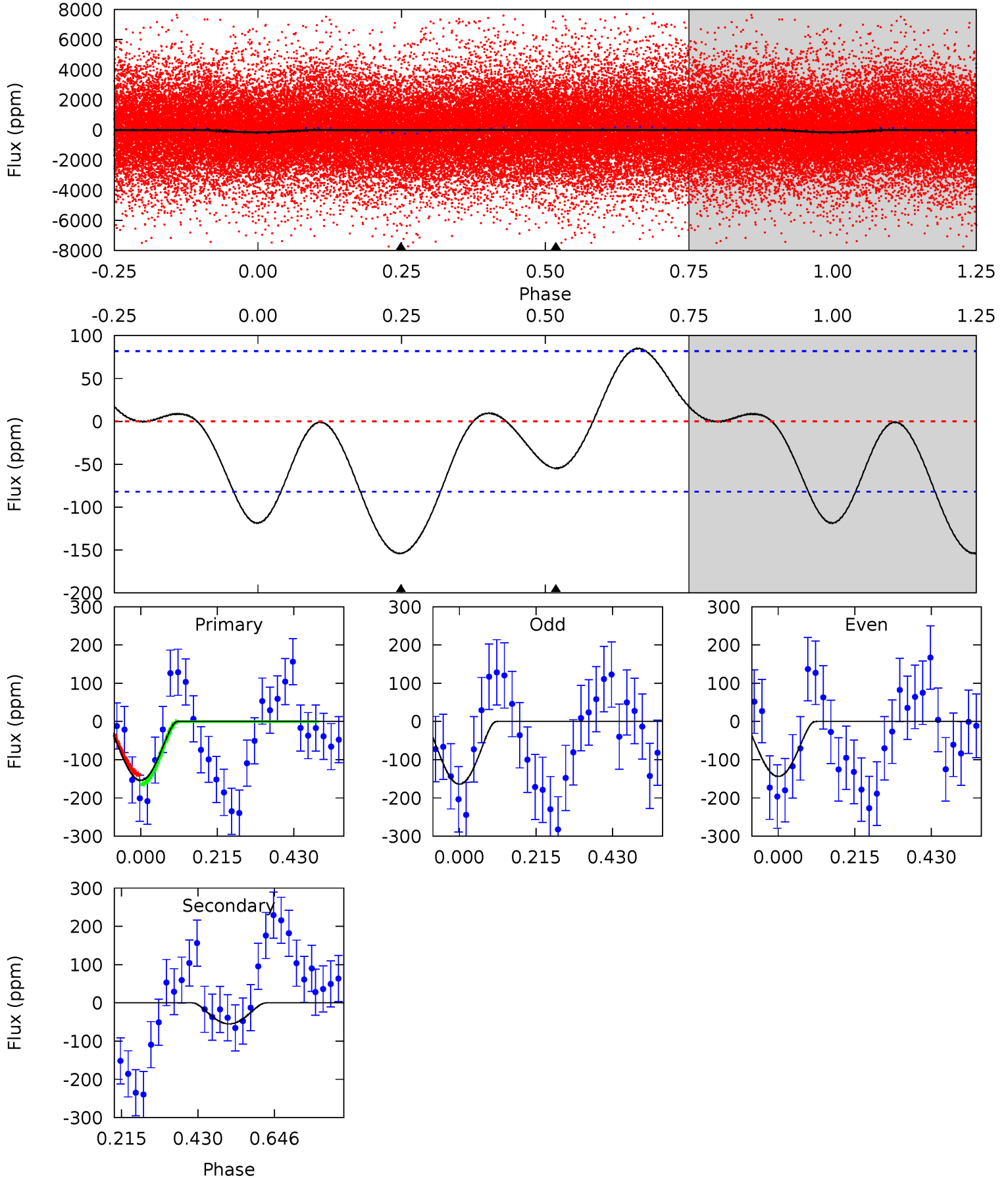
TCE 005770769-02 $P = 1.212403$ Days $T_0 = 132.150084$ (BKJD)



DV Model-Shift Uniqueness Test

005770769-02, P = 1.212398 Days, E = 130.911468 Days

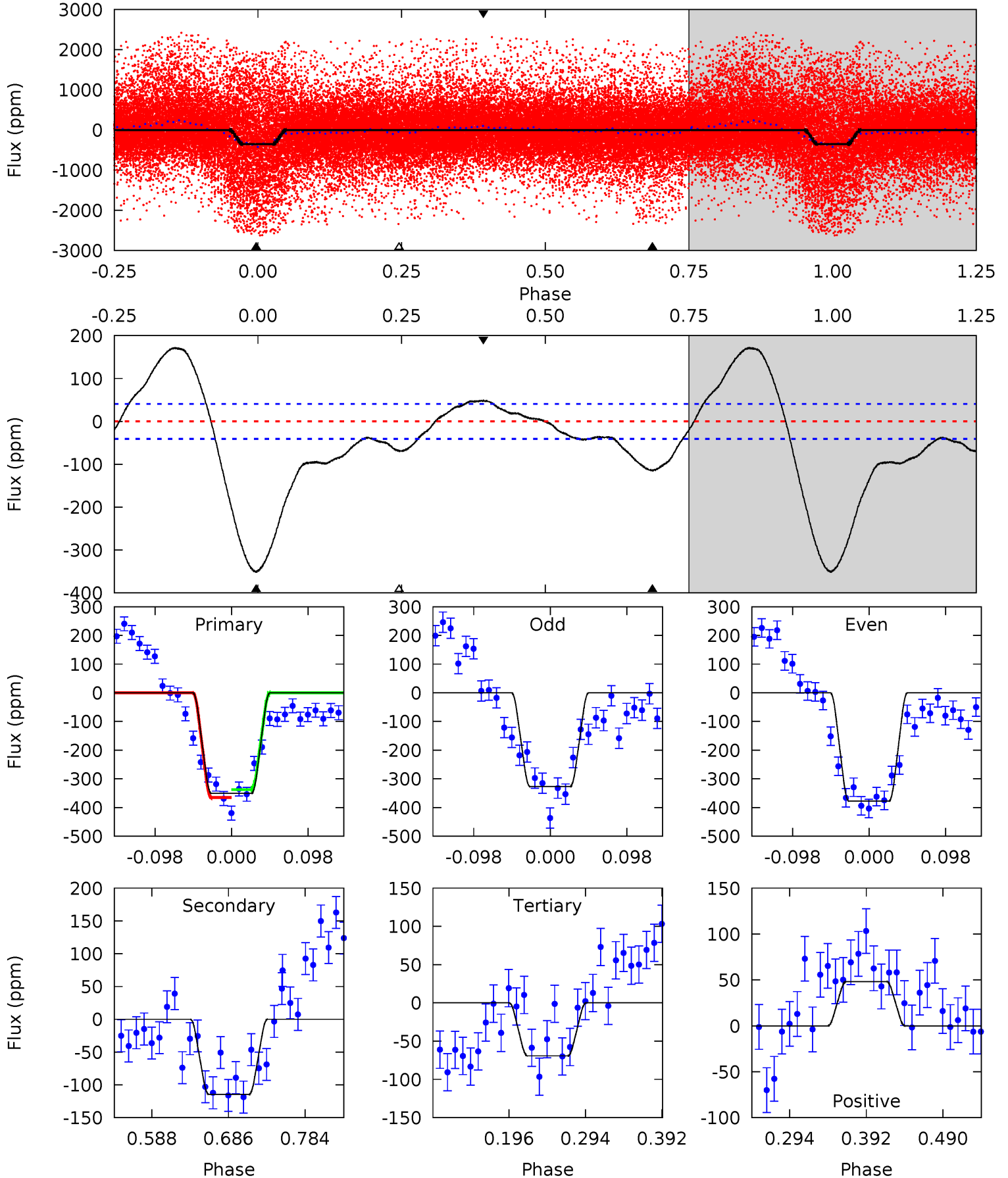
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.28	2.95	0	0	4.40	1.24	2.65	8.28	8.28	2.95	2.95	0.54	1.00	0.36	0.68



Alt Model-Shift Uniqueness Test

005770769-02, P = 1.212403 Days, E = 130.937681 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
39.4	12.9	7.78	5.42	4.57	1.65	8.16	31.6	34.0	5.10	7.45	2.84	1.11	0.33	1.55



Stellar Parameters For KIC 005770769

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4623^{+139}_{-139}	$4.720^{+0.048}_{-0.028}$	$-1.240^{+0.300}_{-0.300}$	$0.527^{+0.033}_{-0.037}$	$0.531^{+0.039}_{-0.022}$	$5.112^{+1.009}_{-0.579}$
	+3%/-3%	+1%/-1%	+24%/-24%	+6%/-7%	+7%/-4%	+20%/-11%
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 005770769-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-55 ± 19	$2.72^{+1.82}_{-1.63}$	1536^{+53}_{-55}	2503^{+795}_{-531}	$1.328^{+6.952}_{-0.902}$
Alt.	-115 ± 9	$1.86^{+1.76}_{-1.29}$	1535^{+53}_{-55}	3153^{+1564}_{-577}	$6.070^{+56.273}_{-4.467}$

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

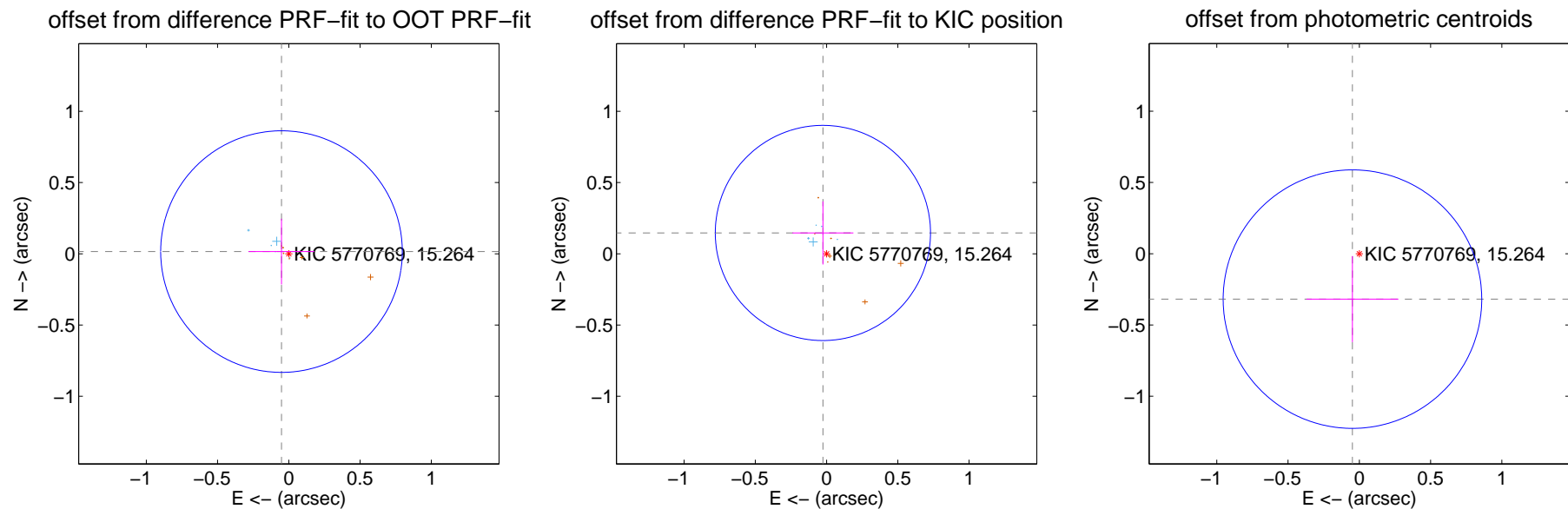
DV Centroid Data

Supplemental centroid analysis for 005770769-02. Kepler magnitude: 15.26. Transit SNR 12.45

There are 5 quarters with good PRF difference image offsets

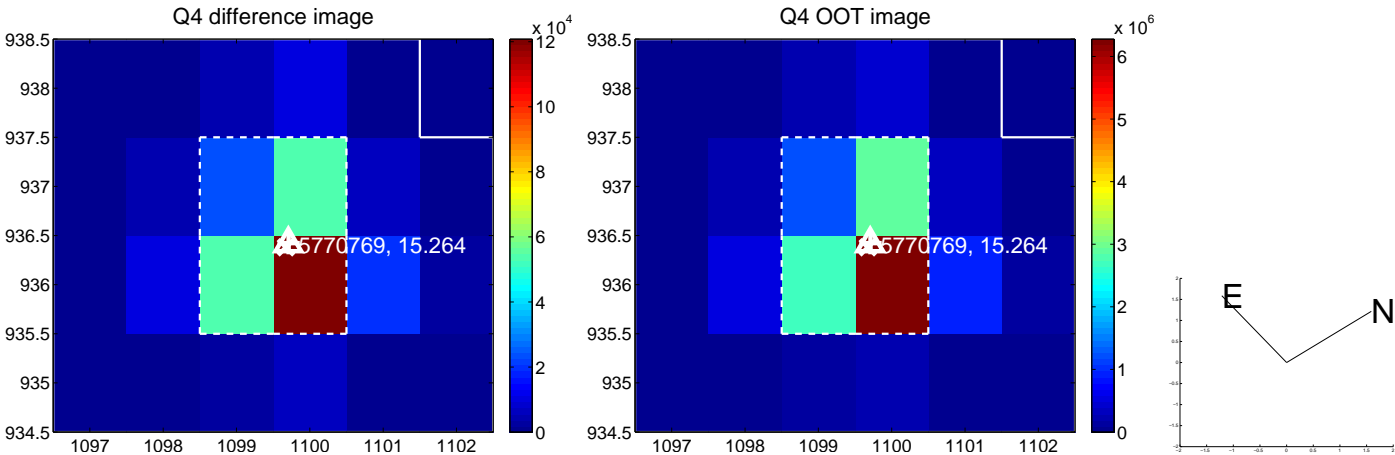
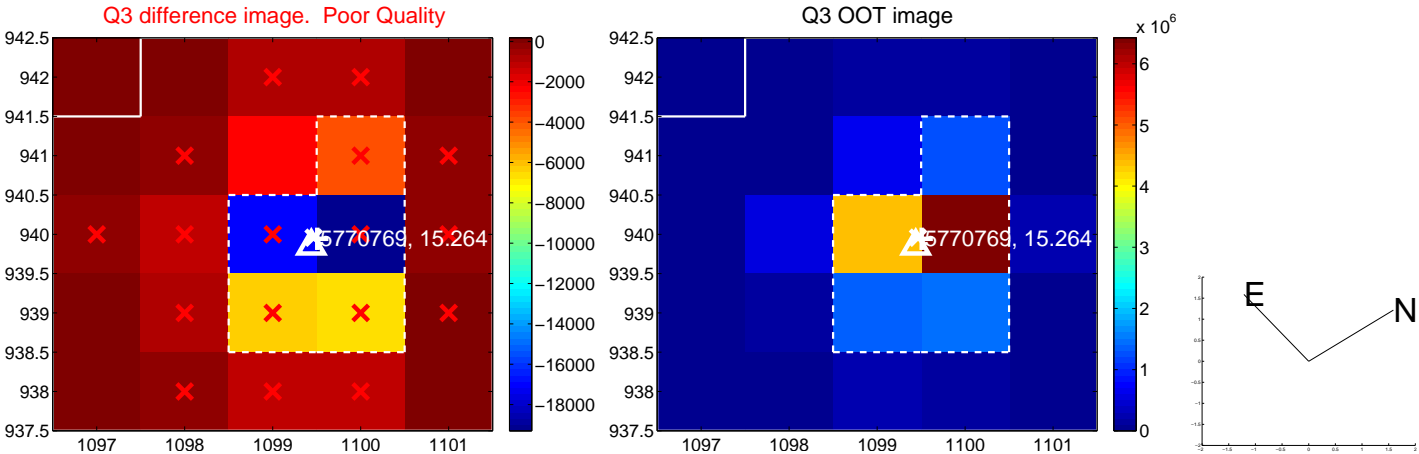
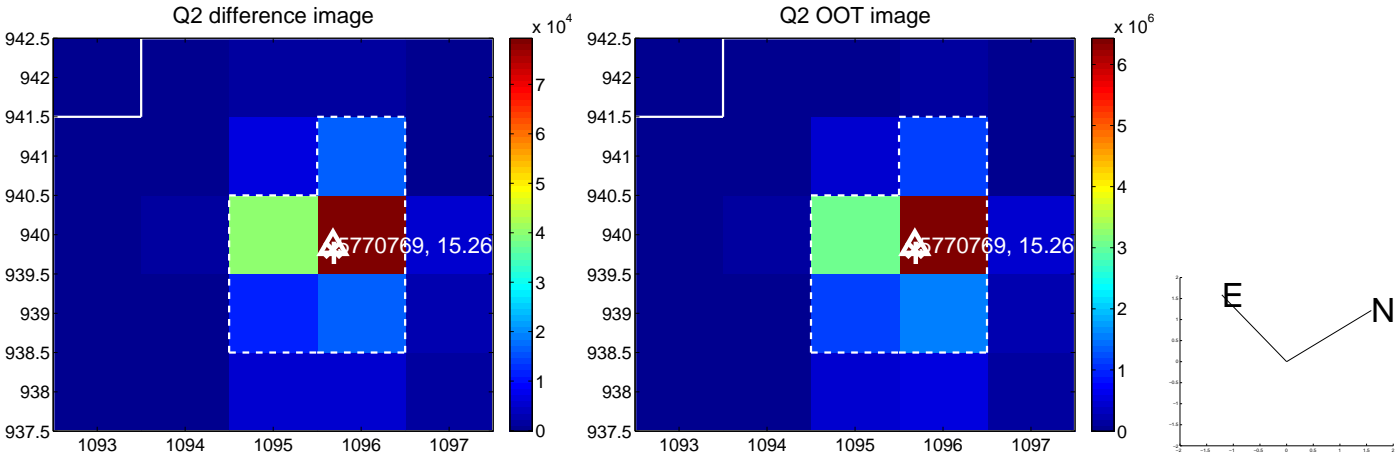
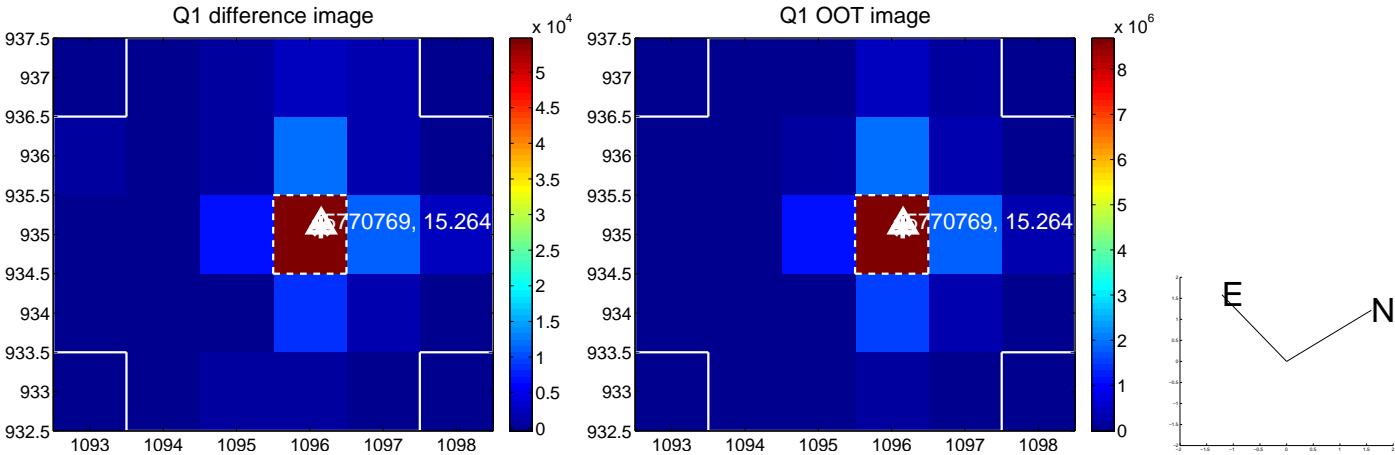
The direct PRF centroid is offset from the target star catalog position by about 0.39 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.054 ± 0.283	0.19	0.051 ± 0.231	0.015 ± 0.231
PRF-fit source offset from KIC position	0.149 ± 0.252	0.59	0.026 ± 0.214	0.146 ± 0.221
photometric centroid source offset	0.32 ± 0.30	1.07	0.05 ± 0.32	-0.32 ± 0.30

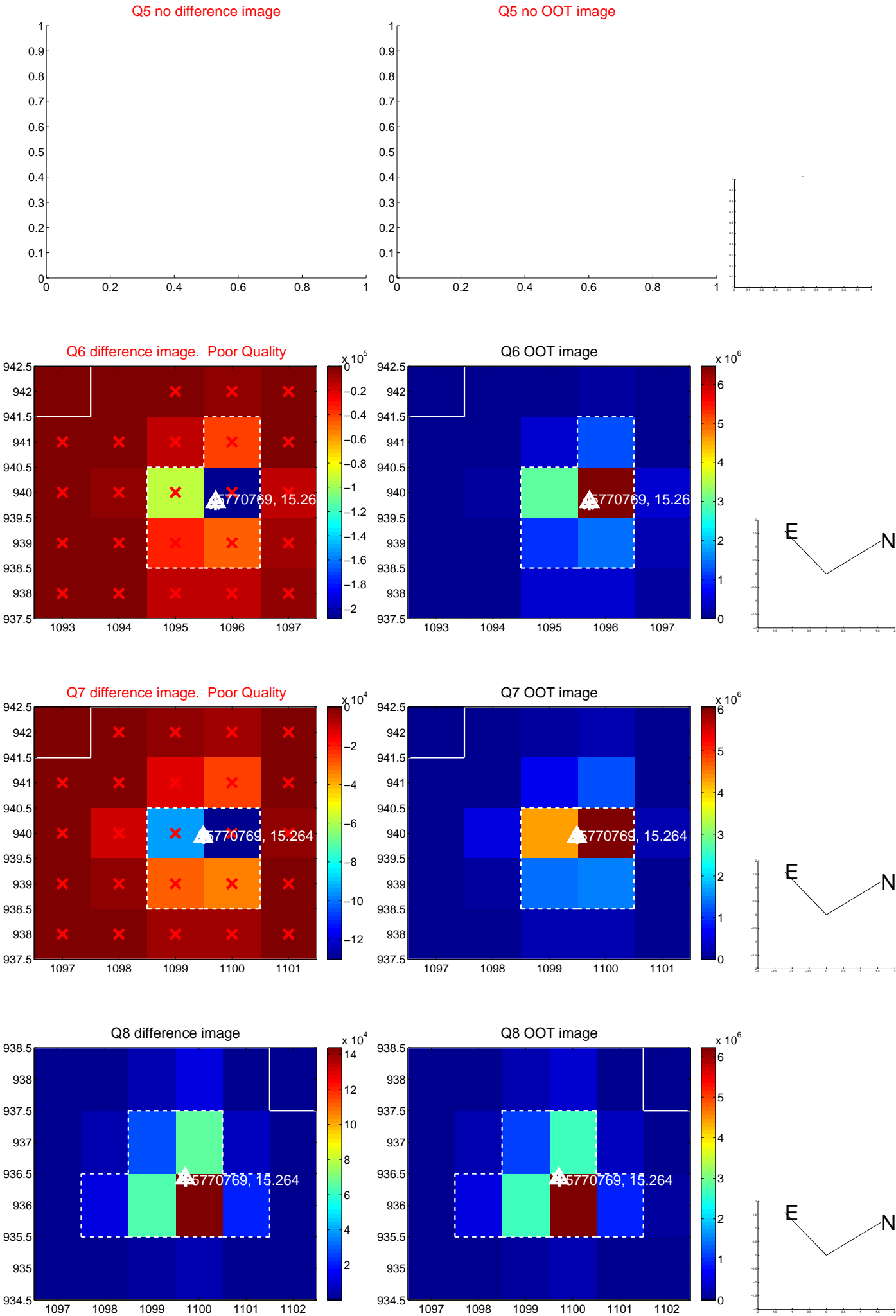


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

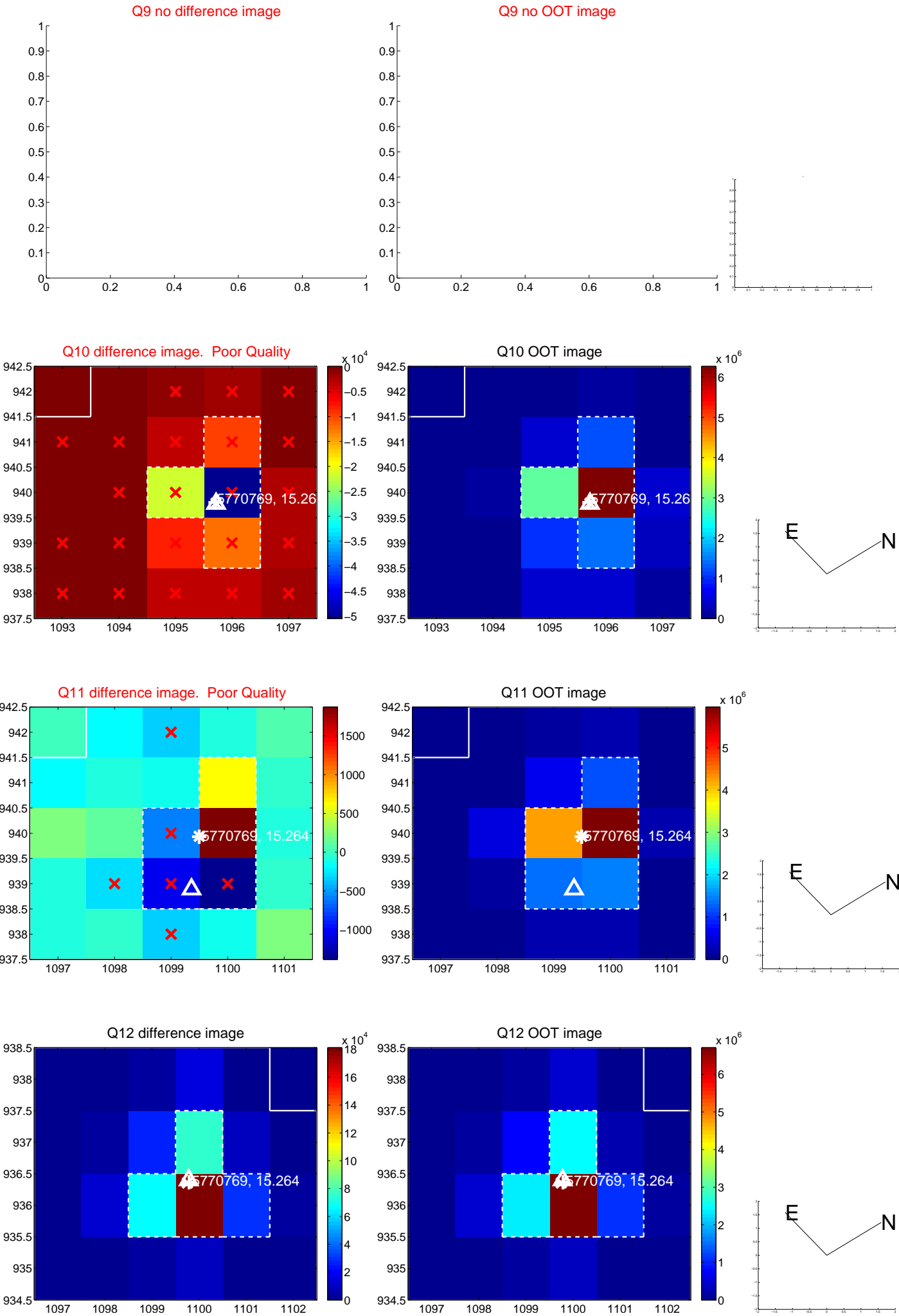
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



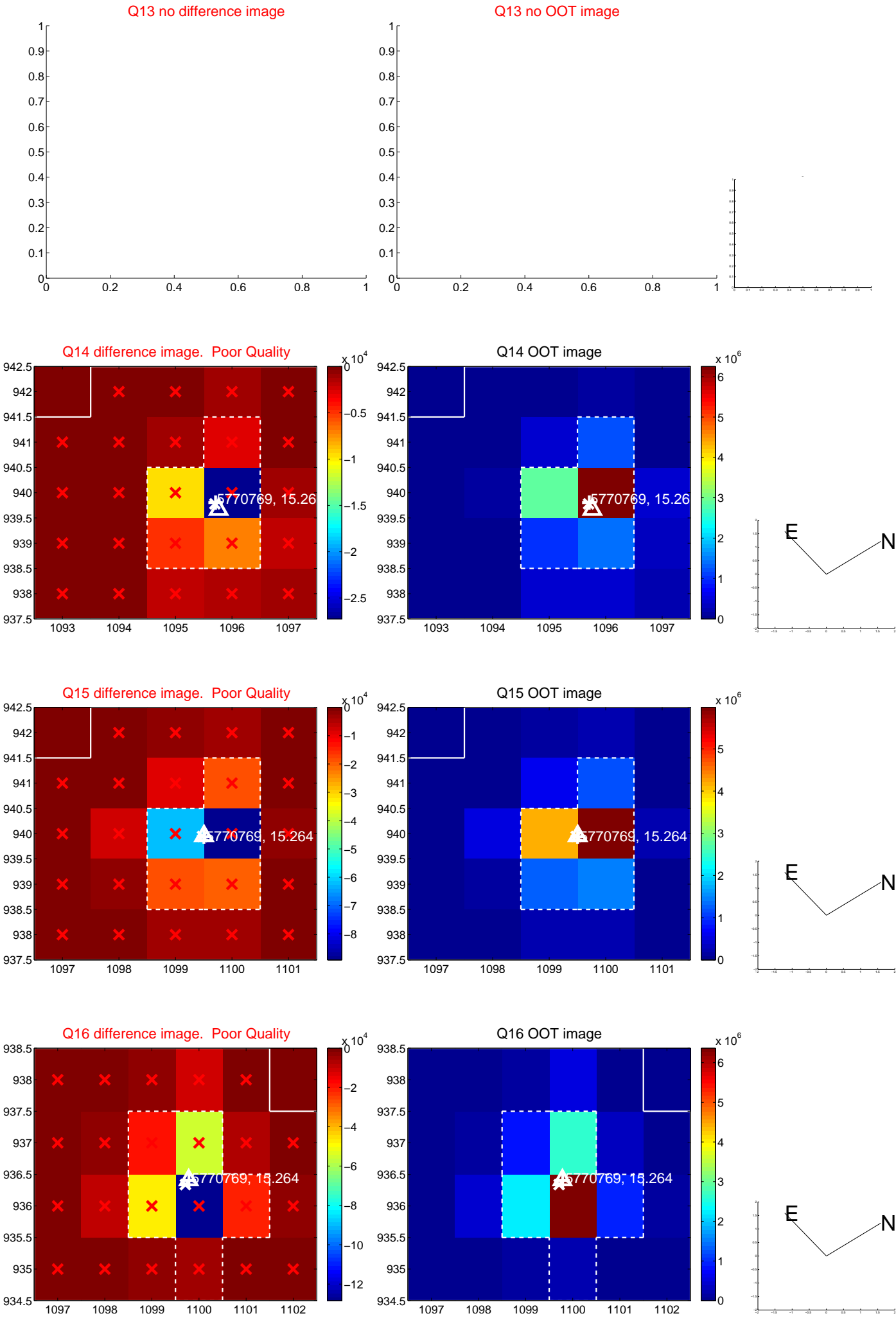
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



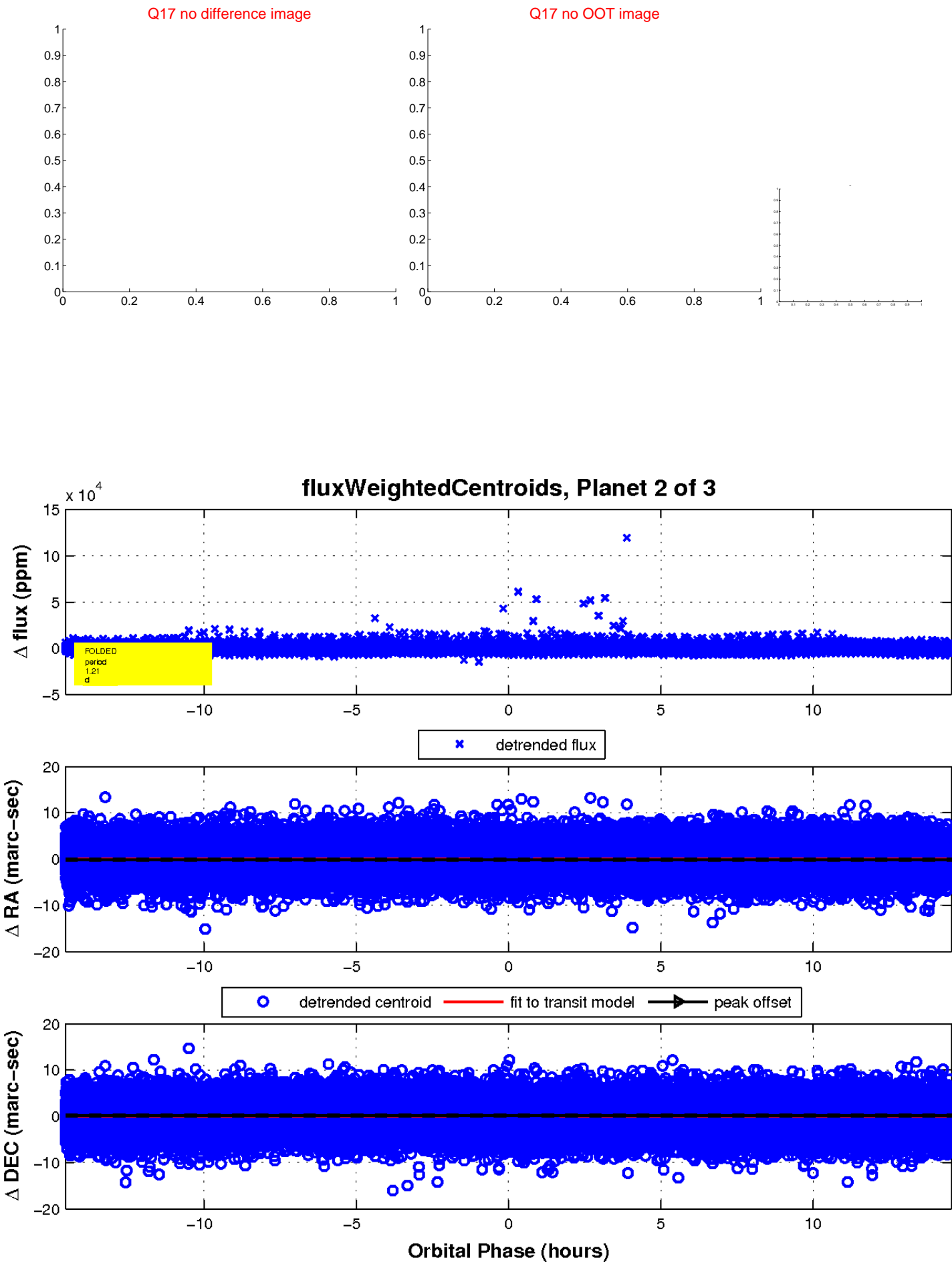
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

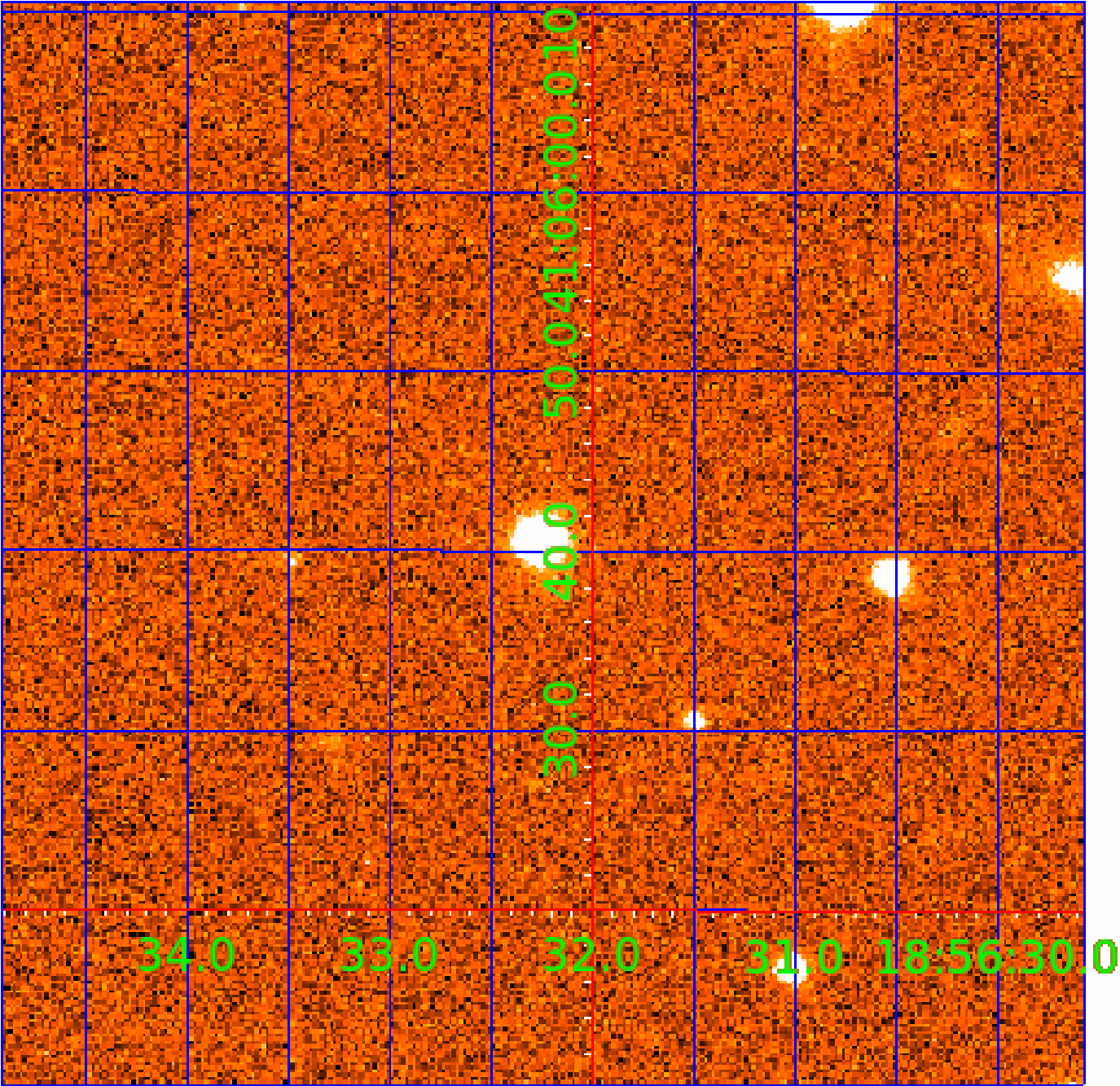


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005770769

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})
005770769-01	OBS	No	186.368702	297.509088	2384.2	2.314	13.3	6.7	0.53	4623	2.52	0.42
005770769-02	OBS	No	1.212398	132.123866	432.5	5.815	9.2	12.5	0.53	4623	2.27	349.63
005770769-03	OBS	No	52.292579	134.084111	2625.4	2.000	10.4	-1.0	0.53	4623	2.65	2.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005770769-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
005770769-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005770769-03	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_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.

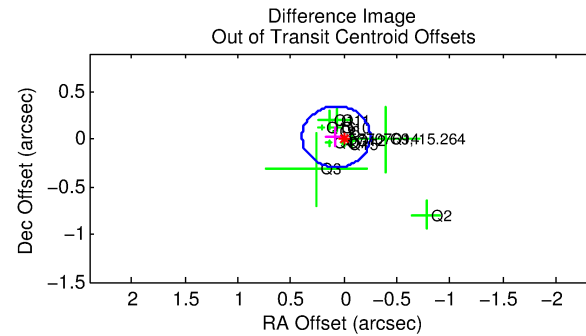
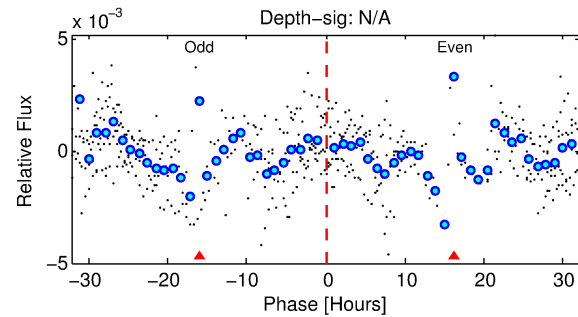
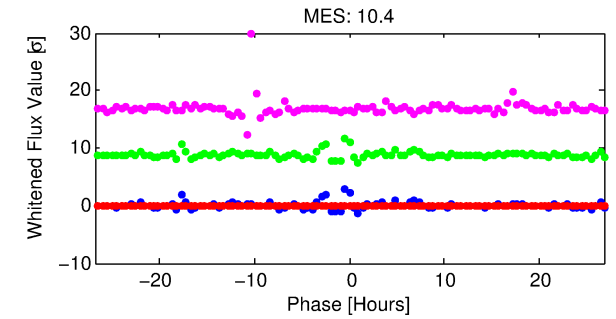
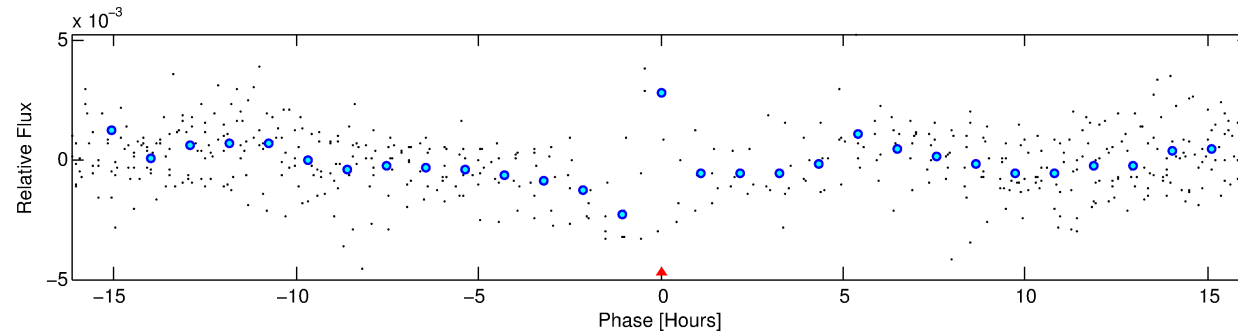
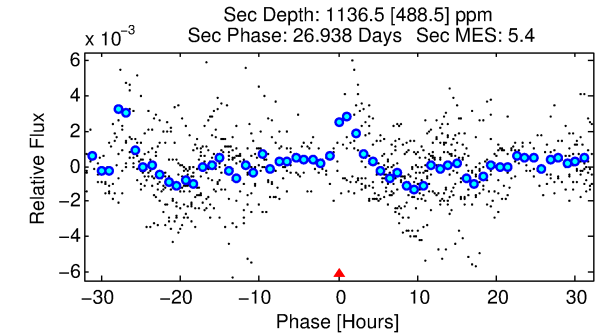
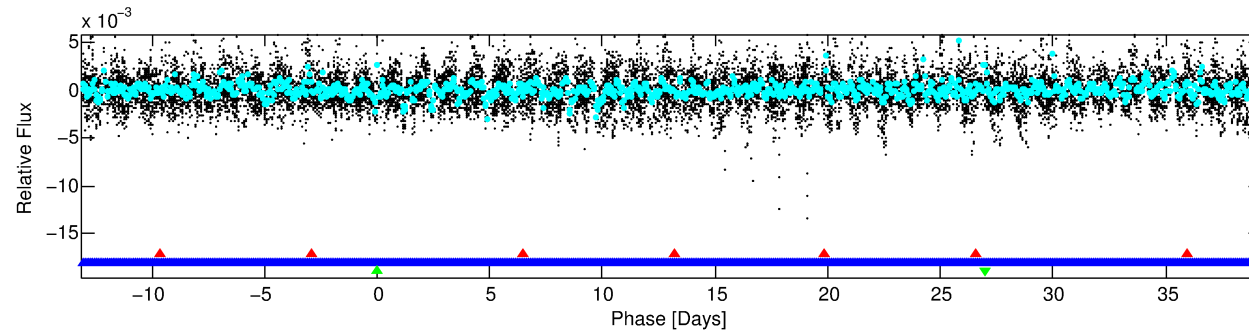
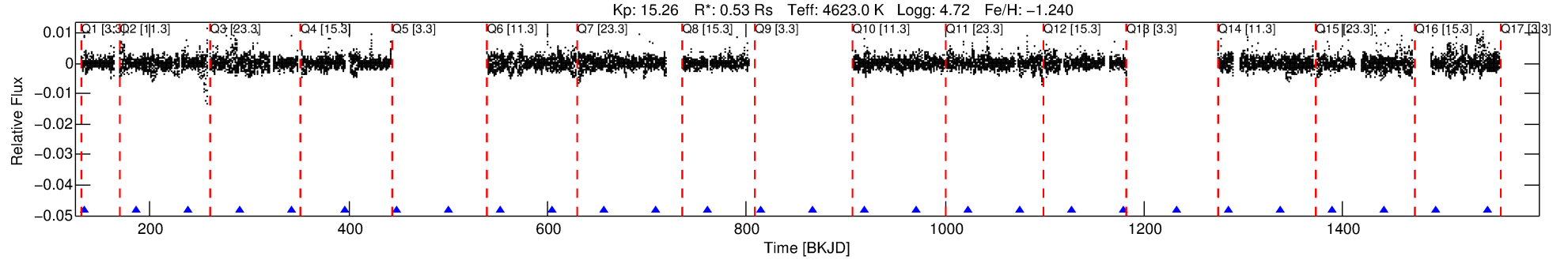
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005770769-03

No Significant Match Found

DV One-Page Summary

KIC: 5770769 Candidate: 3 of 3 Period: 52.293 d



TPS TCE Results:

Period = 52.29258 d

Epoch = 134.0841 BKJD

DV fit results are unavailable

DV Diagnostic Results:

ShortPeriod-sig: 100.0% [199.37σ]

LongPeriod-sig: 100.0% [1052.20σ]

ModelChiSquare2-sig: N/A

ModelChiSquareGoF-sig: N/A

Bootstrap-pfa: 1.93e-16

RollingBand-fgt: 1.00 [7/7]

GhostDiagnostic-chr: -41.07

Centroid-sig: 82.3%

Centroid-so: 0.181 arcsec [3.02σ]

OotOffset-rm: 0.076 arcsec [0.71σ]

KicOffset-rm: 0.185 arcsec [1.27σ]

OotOffset-st: 4/4/3/1 [12]

KicOffset-st: 4/4/3/1 [12]

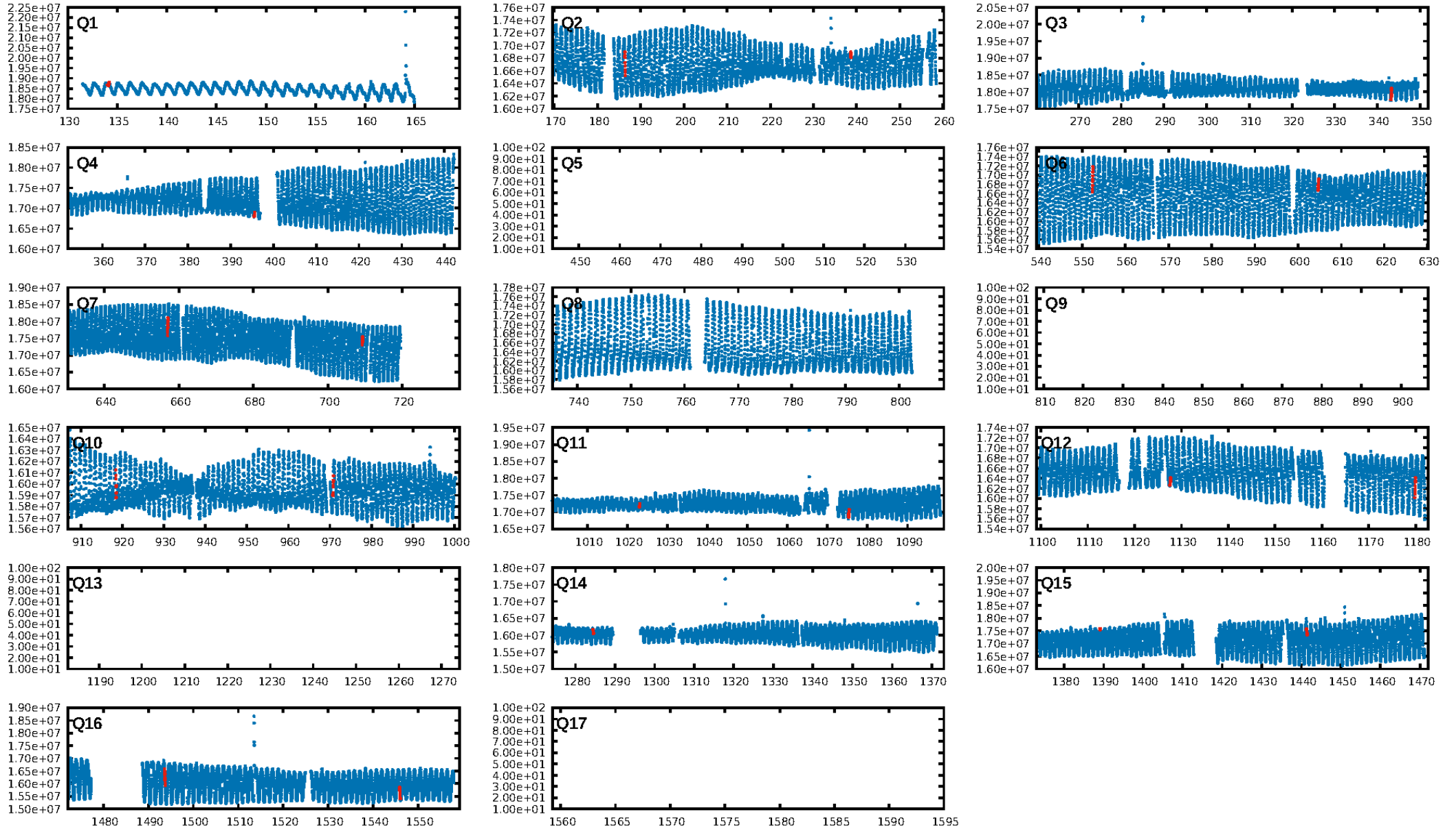
DiffImageQuality-fgm: 0.50 [6/12]

DiffImageOverlap-fno: 0.00 [0/12]

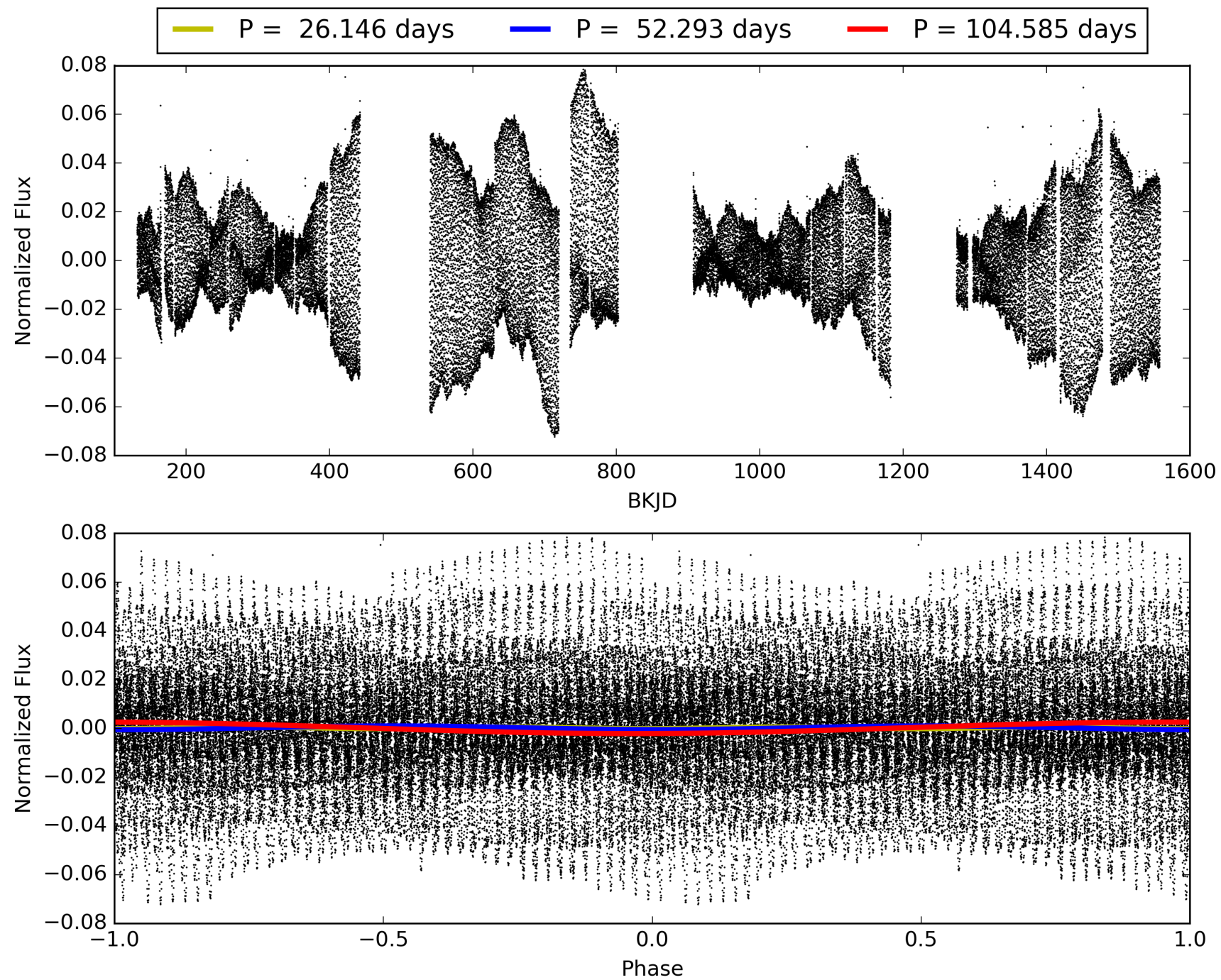
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 15:56:43 Z

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

TCE 005770769-03, PDC Light Curves

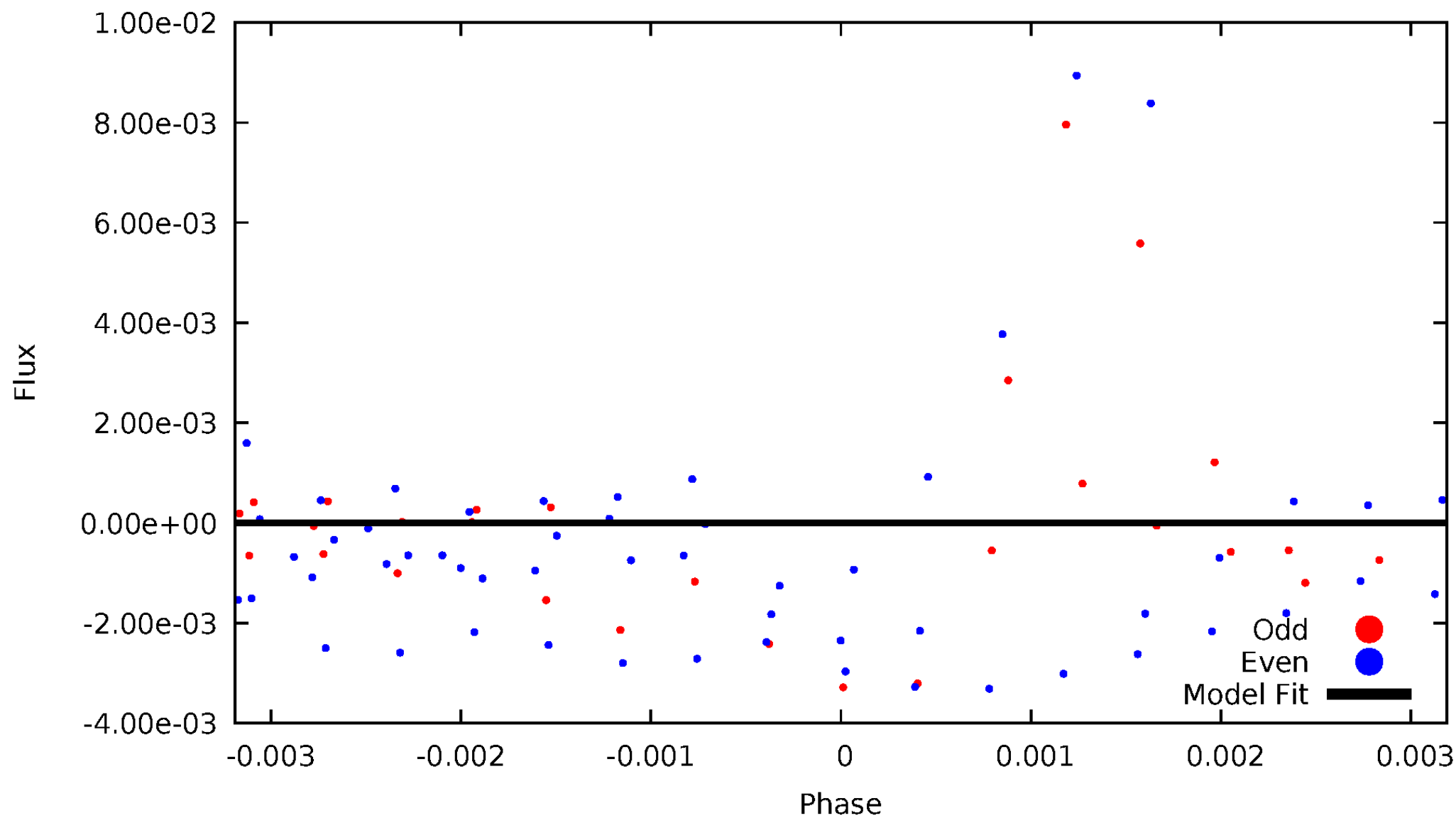


TCE 005770769-03



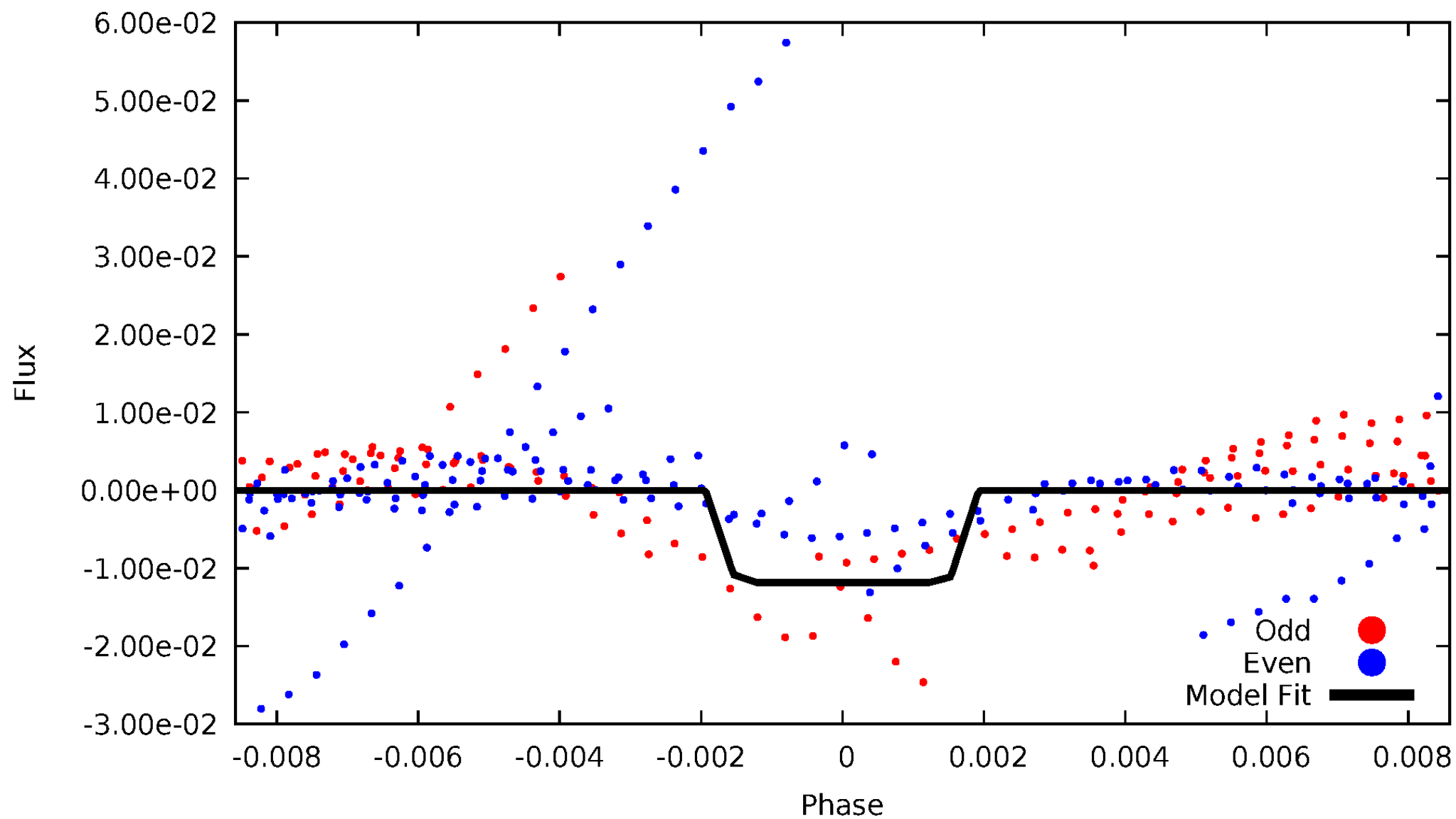
DV Odd/Even

TCE 005770769-03

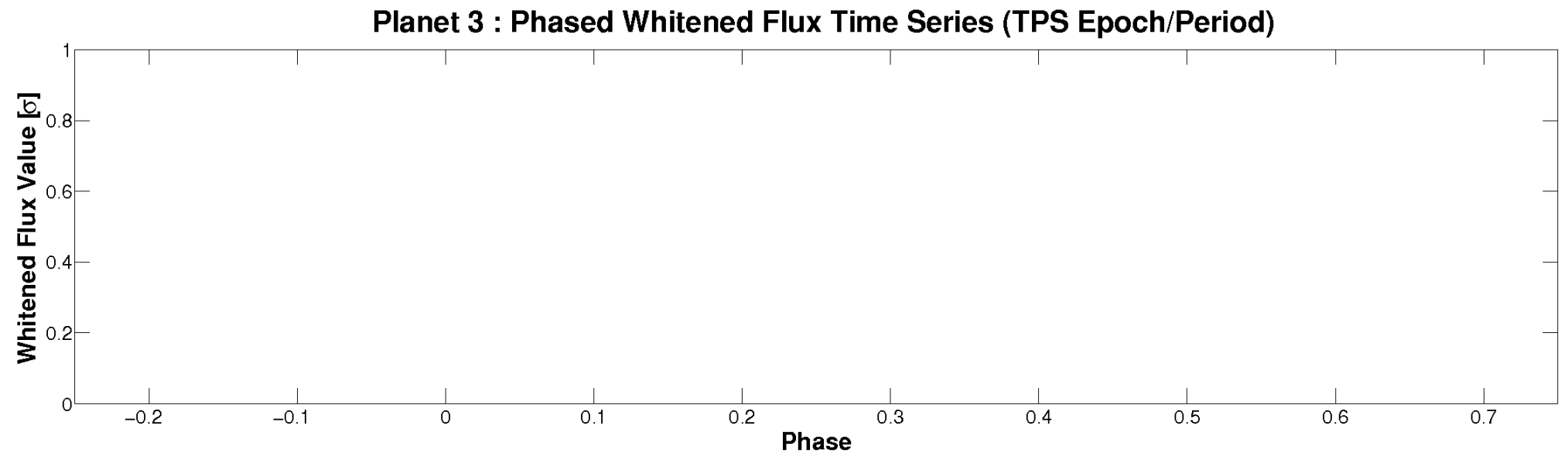
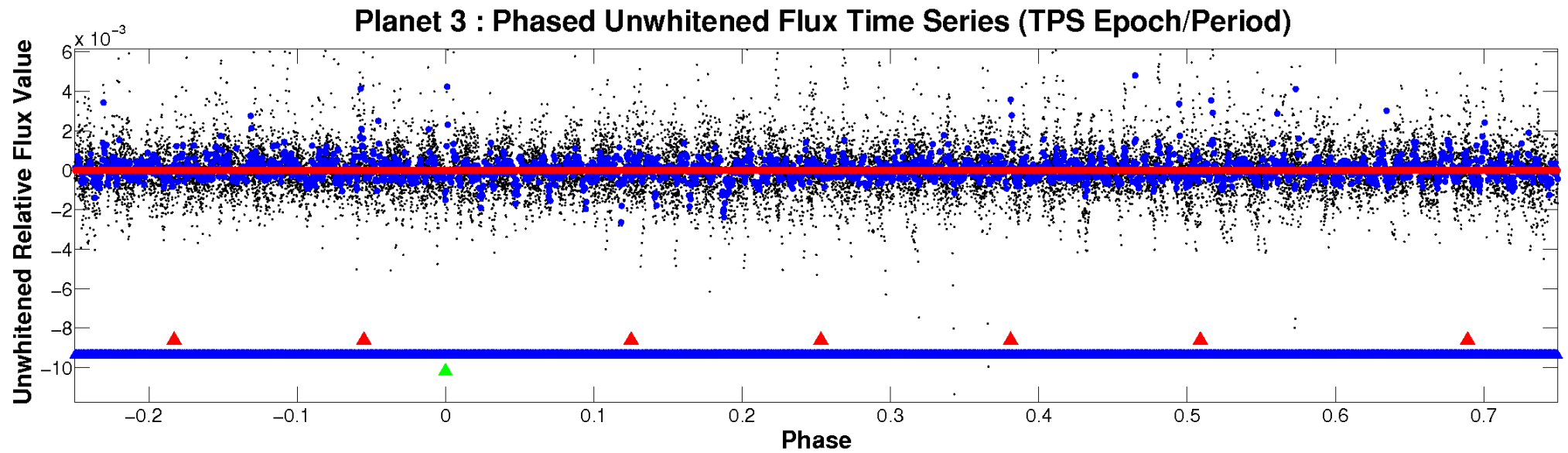


ALT Odd/Even

TCE 005770769-03

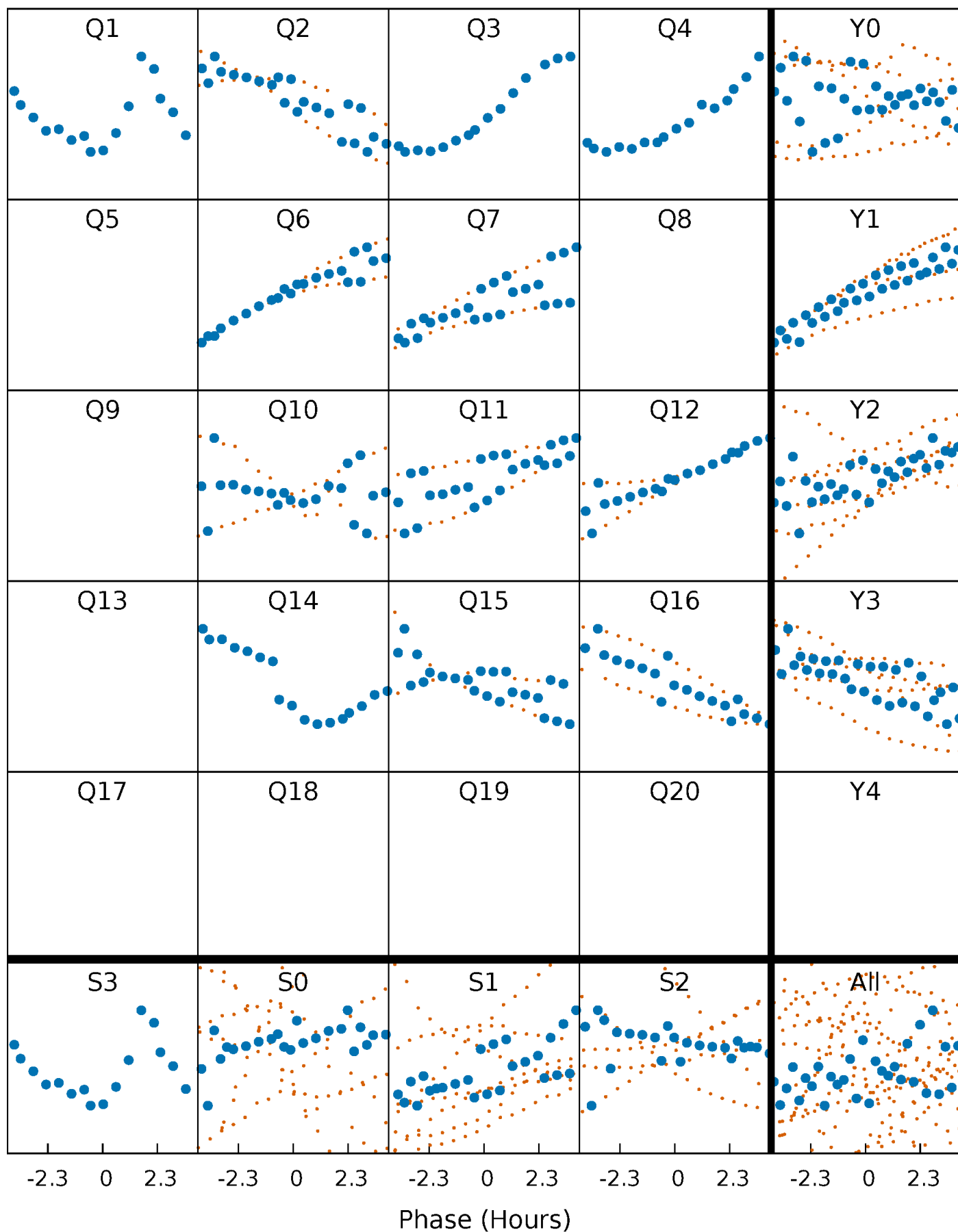


Non-Whitened Vs. Whitened Light Curve



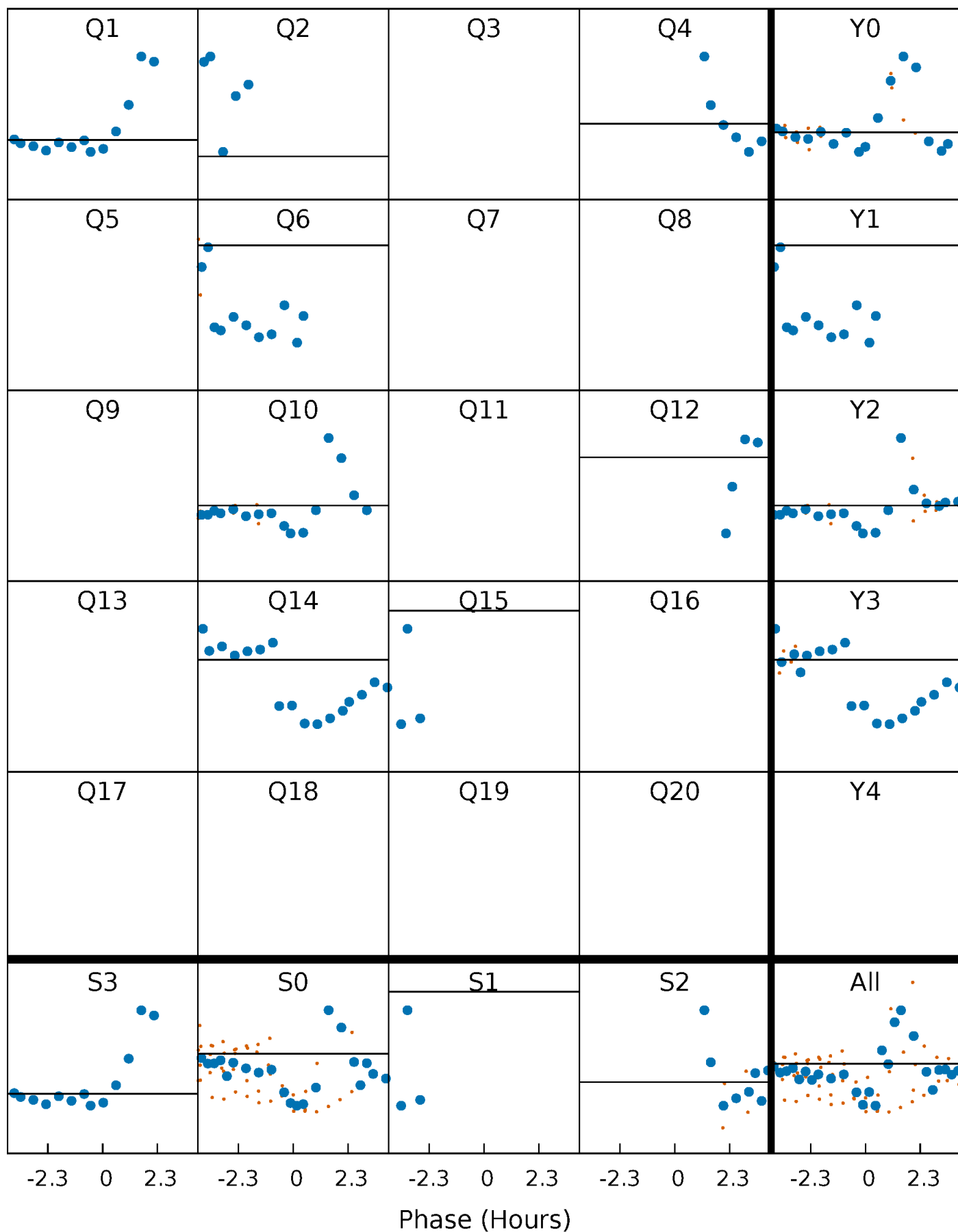
PDC Quarter-Phased Transit Curves

TCE 005770769-03 $P = 52.292579$ Days $T_0 = 134.084111$ (BKJD)



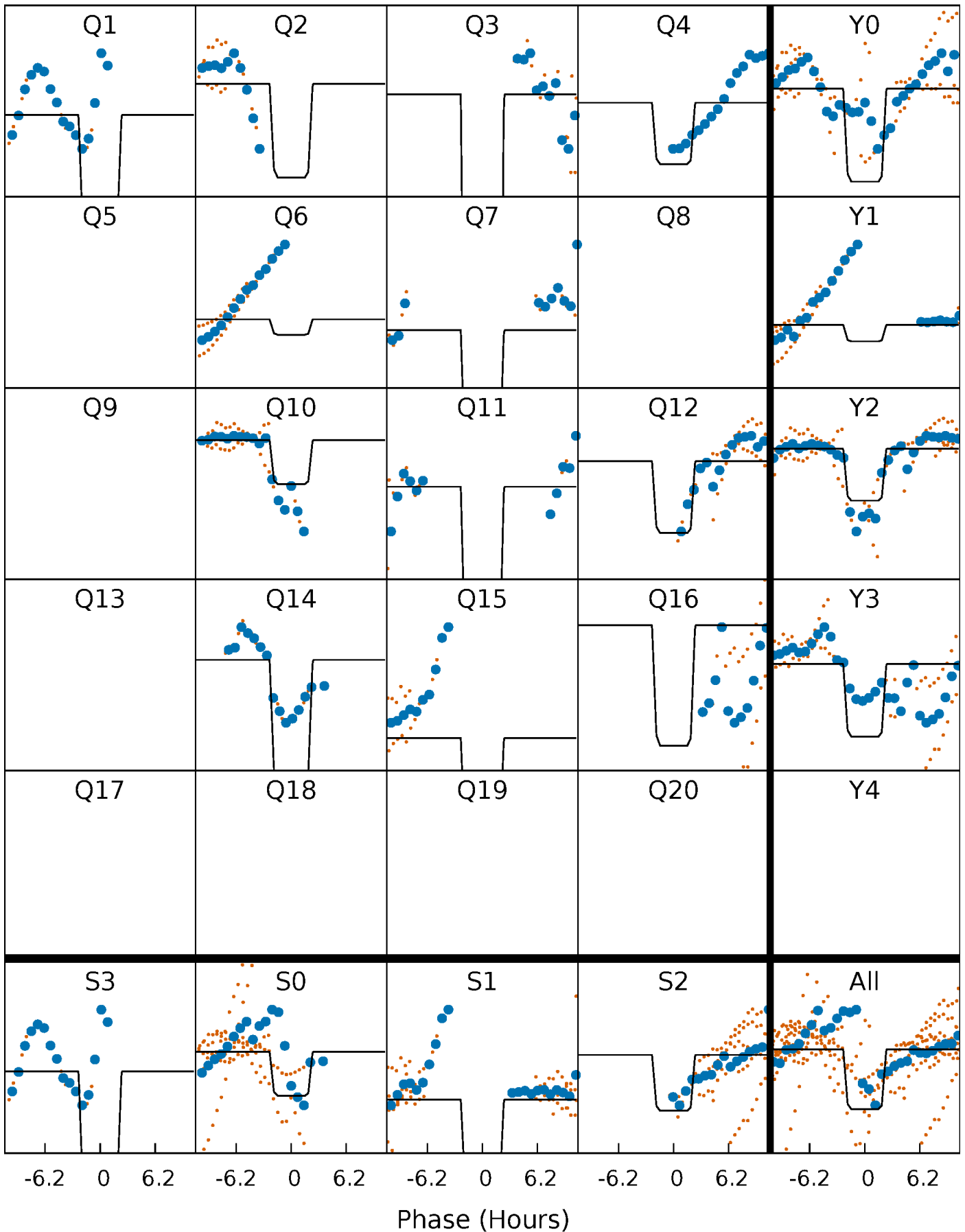
DV Quarter-Phased Transit Curves

TCE 005770769-03 $P = 52.292579$ Days $T_0 = 134.084111$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

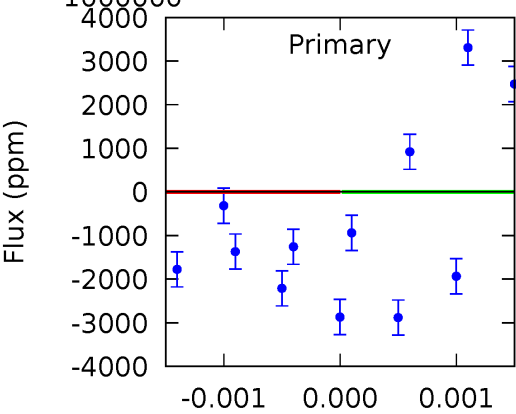
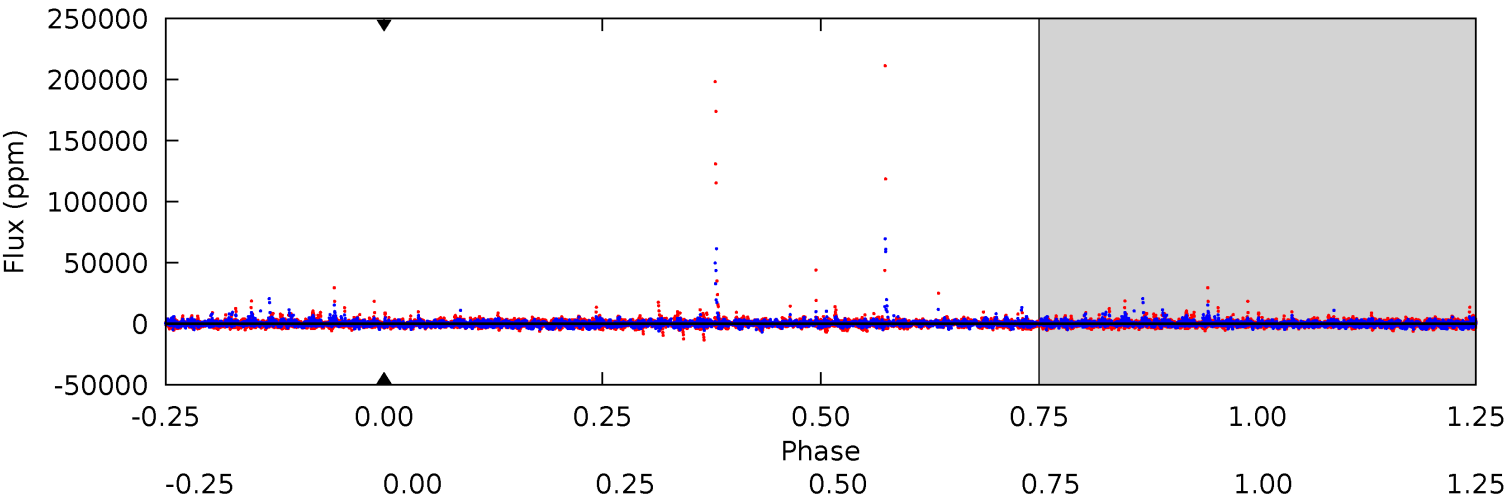
TCE 005770769-03 P= 52.292579 Days $T_0=134.147605$ (BKJD)



DV Model-Shift Uniqueness Test

005770769-03, P = 52.292579 Days, E = 81.791532 Days

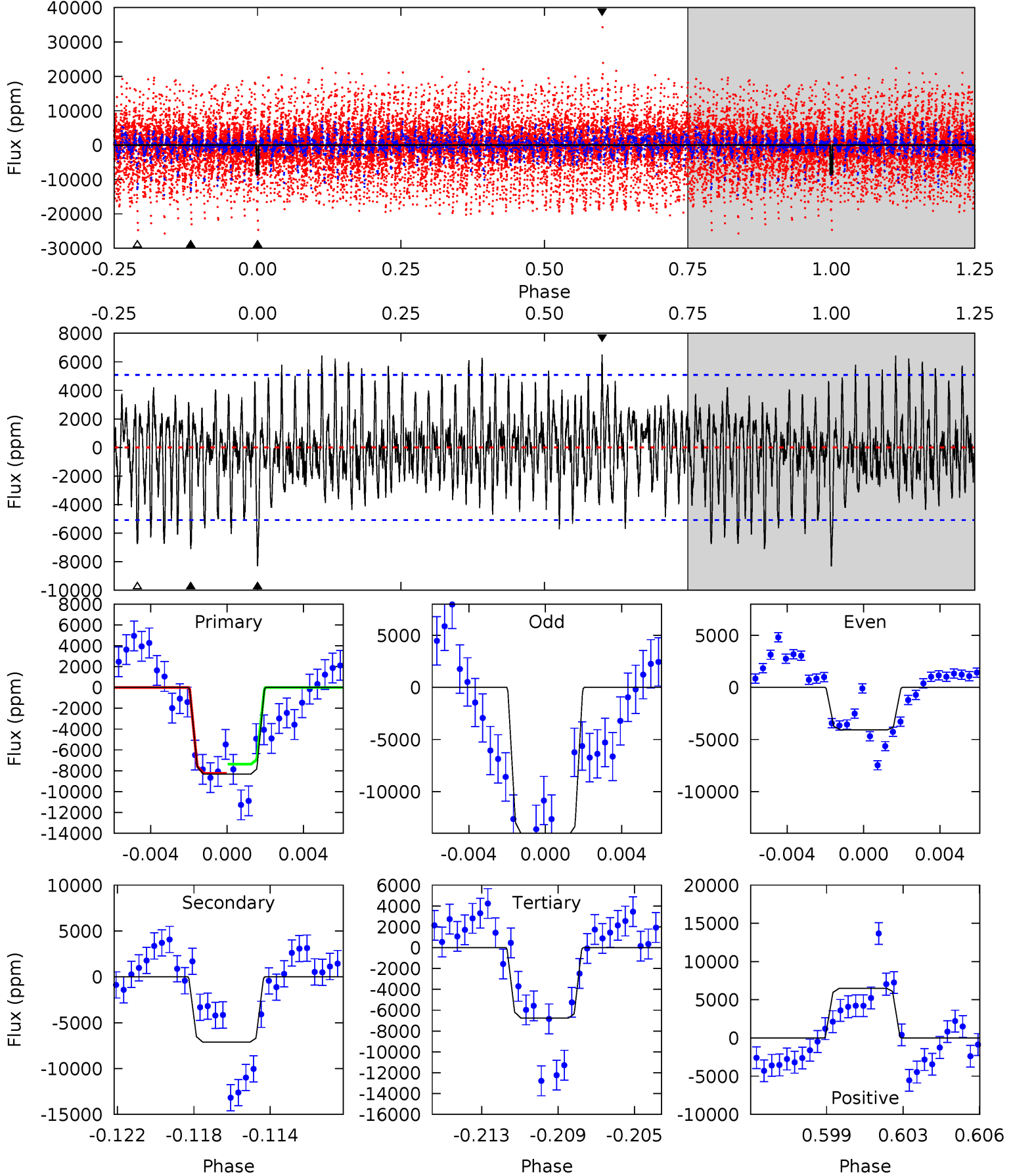
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005770769-03, P = 52.292579 Days, E = 81.855026 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.51	7.28	6.91	6.65	5.20	2.88	2.08	1.60	1.86	0.37	0.63	4.84	-0.39	0.44	0.46



Stellar Parameters For KIC 005770769

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4623^{+139}_{-139}	$4.720^{+0.048}_{-0.028}$	$-1.240^{+0.300}_{-0.300}$	$0.527^{+0.033}_{-0.037}$	$0.531^{+0.039}_{-0.022}$	$5.112^{+1.009}_{-0.579}$
	+3%/-3%	+1%/-1%	+24%/-24%	+6%/-7%	+7%/-4%	+20%/-11%
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 005770769-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$4.86^{+4.81}_{-3.37}$	438^{+15}_{-15}	3576^{+8179}_{-13796}	$2087^{+230513}_{-162309}$
Alt.	-7116 ± 978	$7.24^{+5.40}_{-4.27}$	438^{+15}_{-14}	3971^{+1772}_{-640}	3630^{+18630}_{-2352}

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

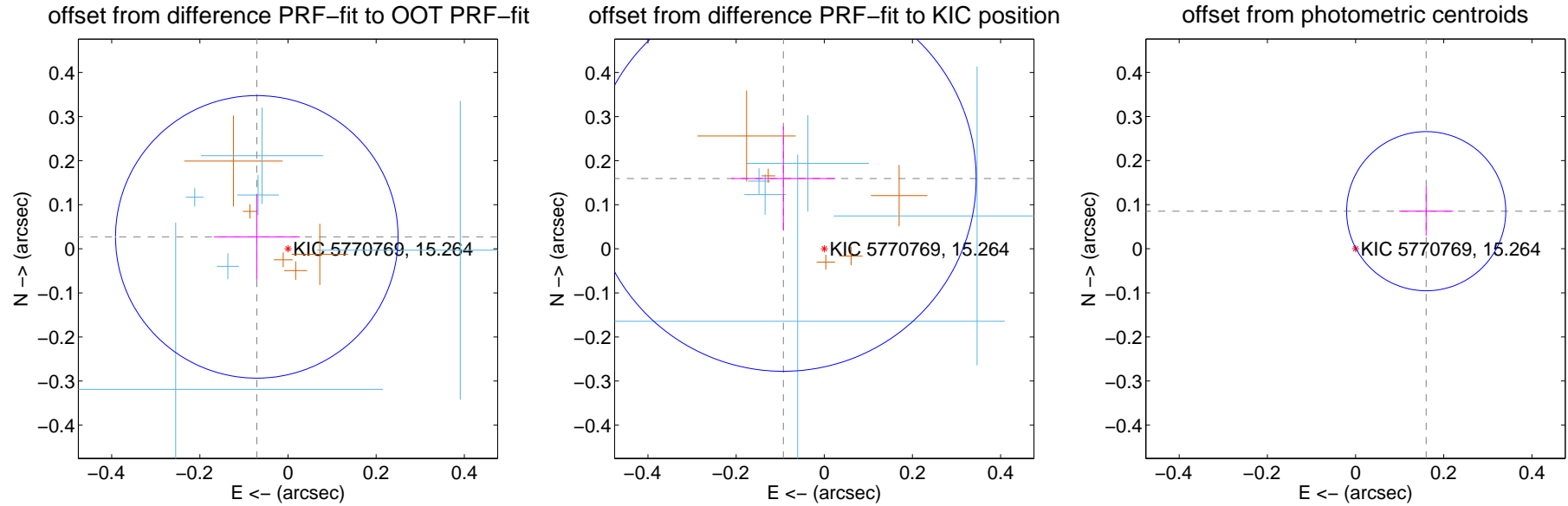
DV Centroid Data

Supplemental centroid analysis for 005770769-03. Kepler magnitude: 15.26. Transit SNR -1.00

There are 6 quarters with good PRF difference image offsets

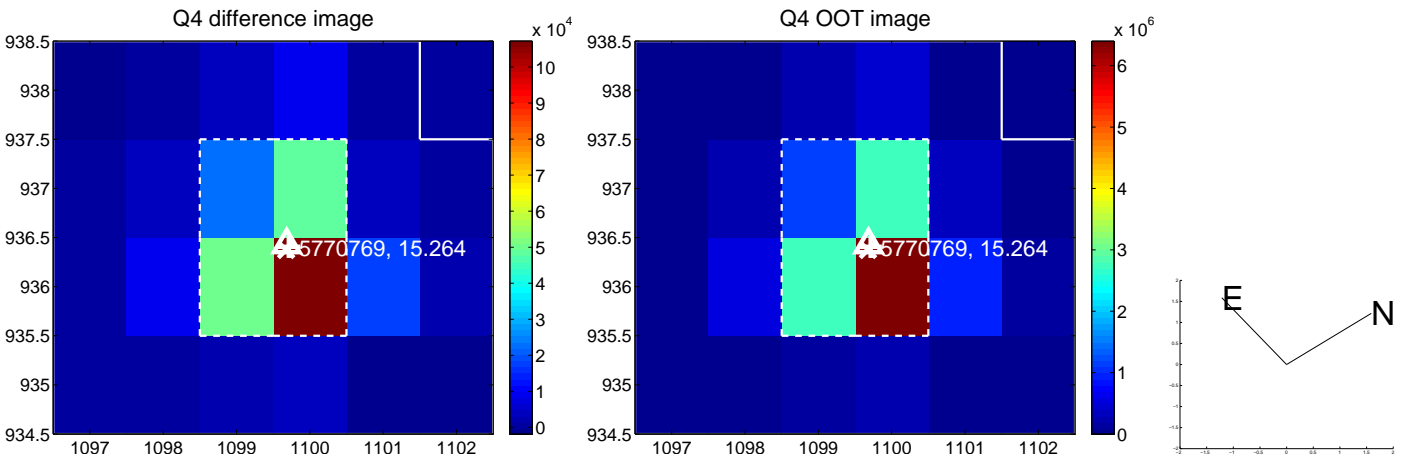
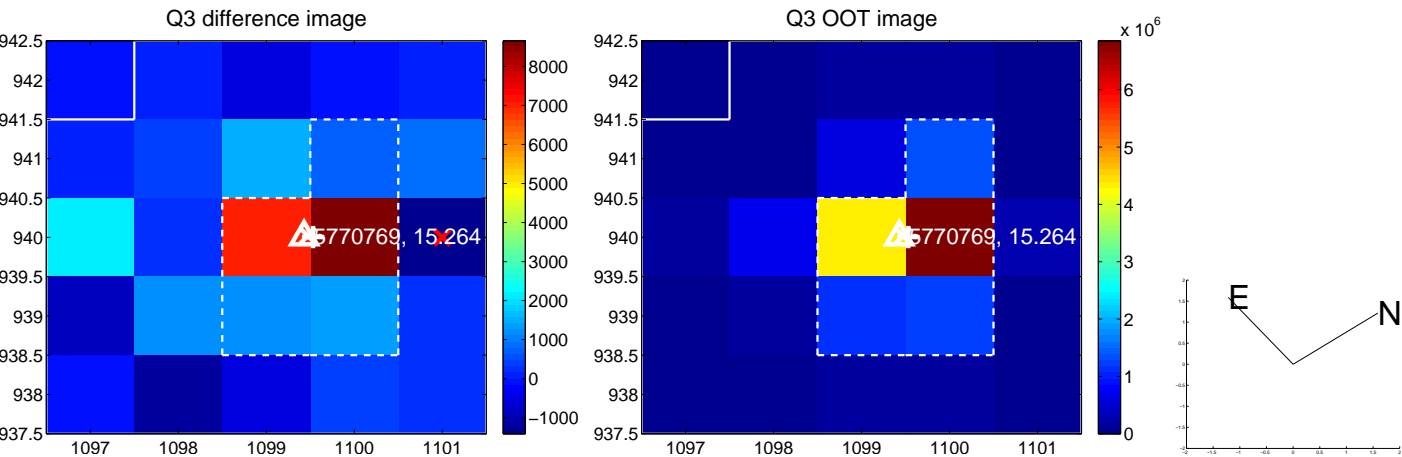
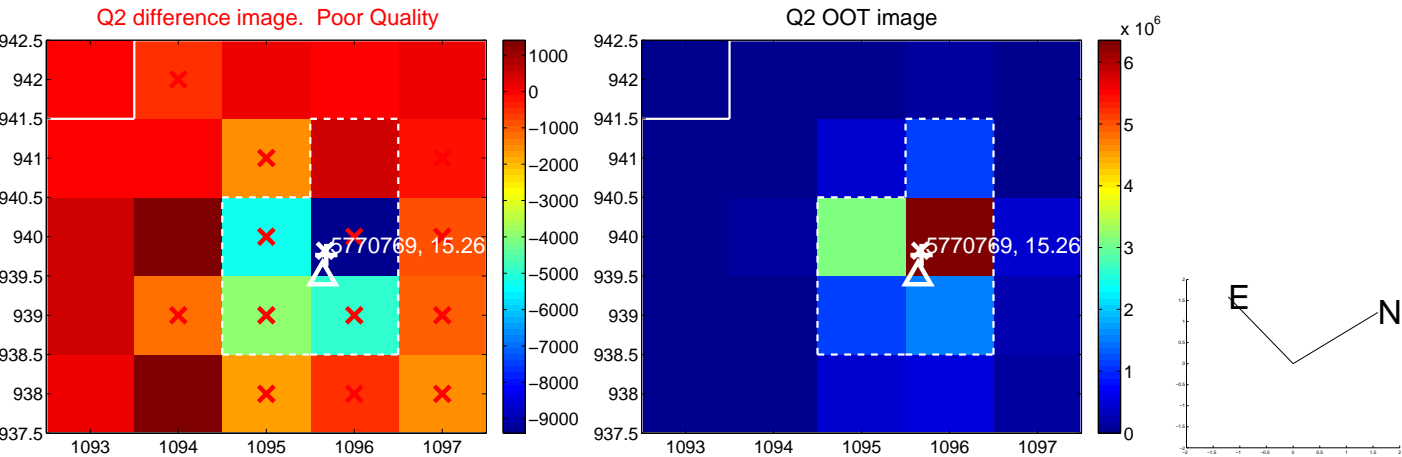
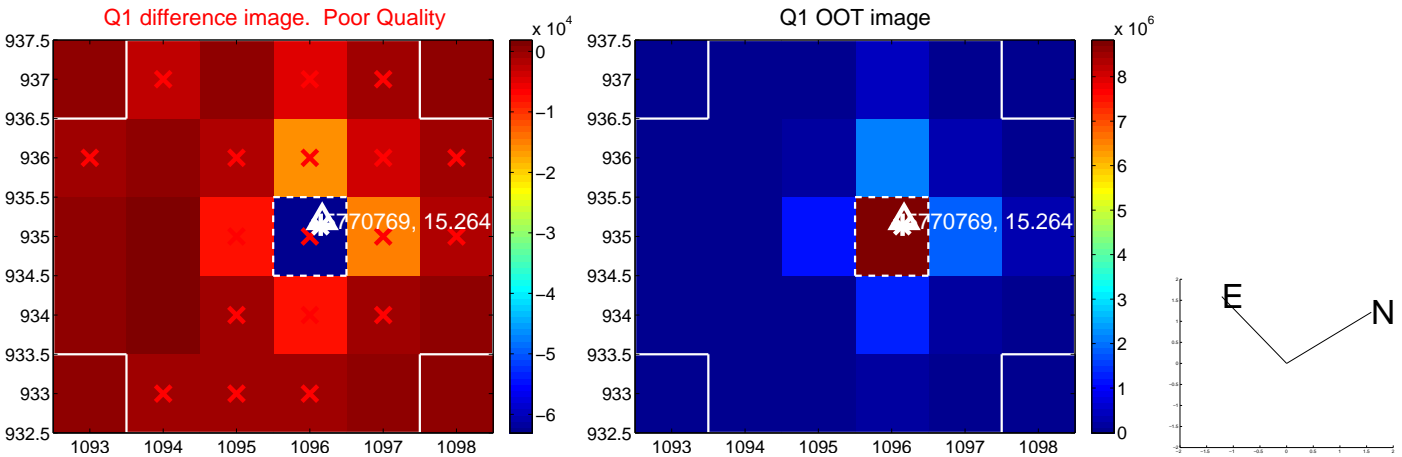
The direct PRF centroid is offset from the target star catalog position by about 0.41 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.076 ± 0.107	0.71	0.071 ± 0.097	0.027 ± 0.097
PRF-fit source offset from KIC position	0.185 ± 0.146	1.27	0.093 ± 0.118	0.160 ± 0.118
photometric centroid source offset	0.18 ± 0.06	3.02	-0.16 ± 0.06	0.09 ± 0.06

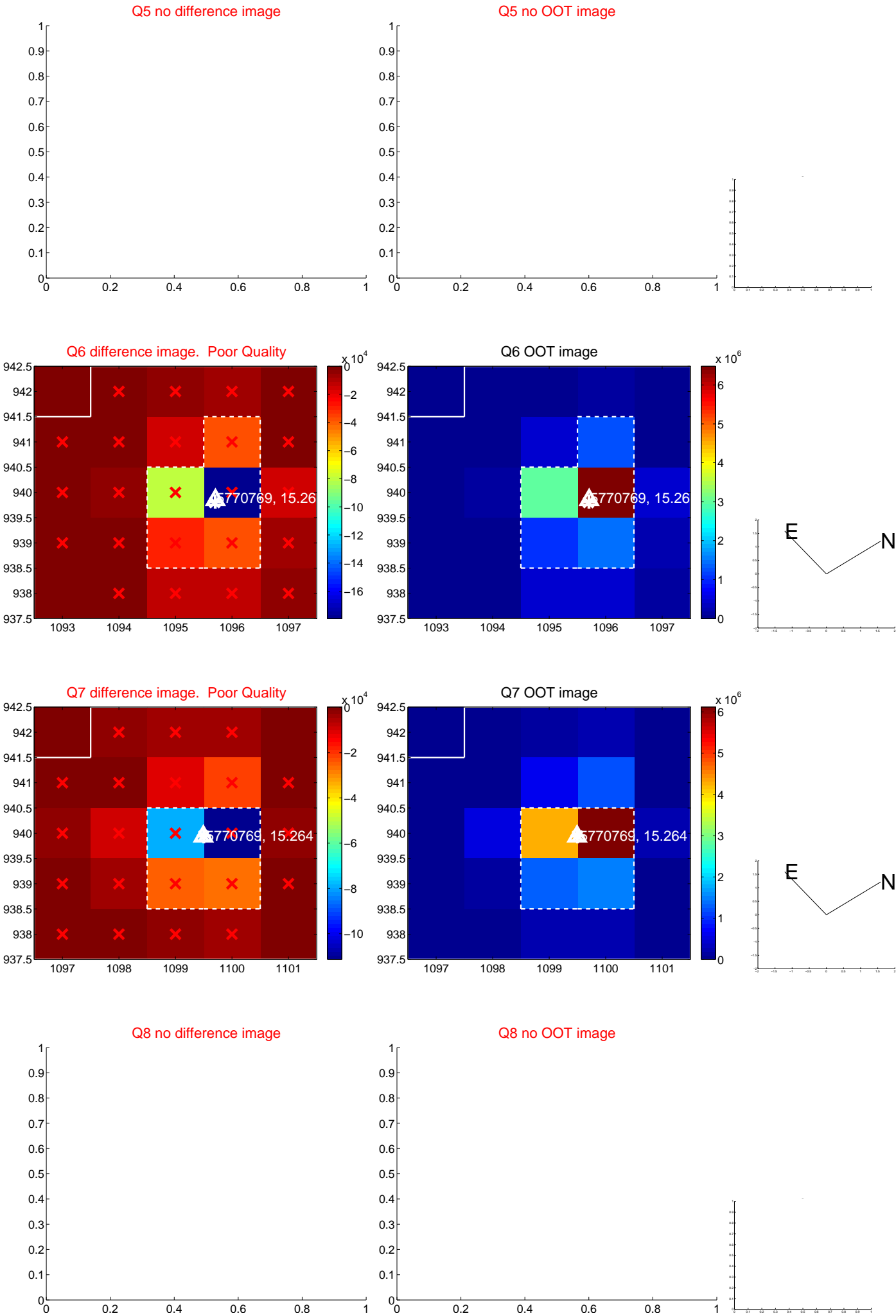


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

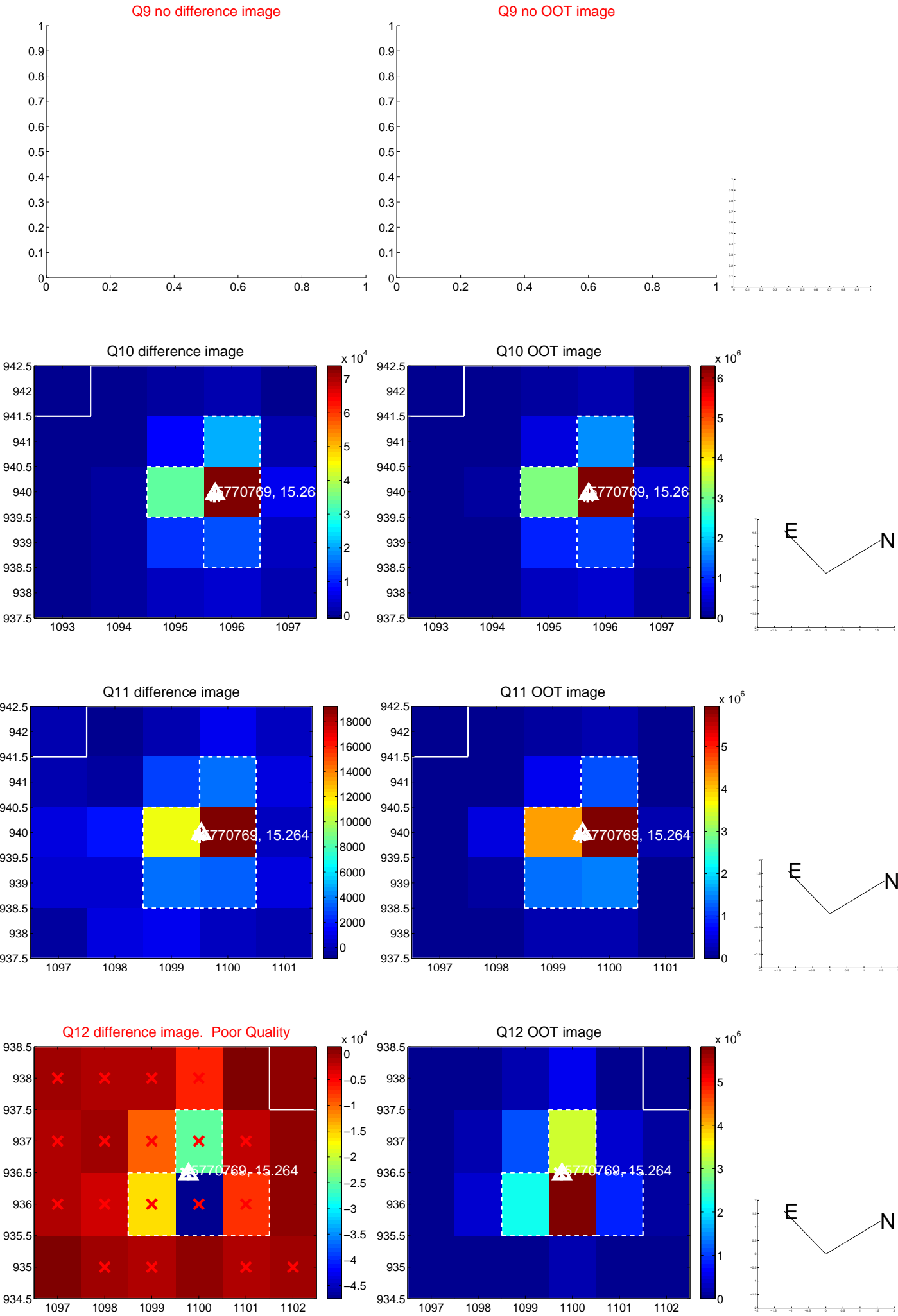
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



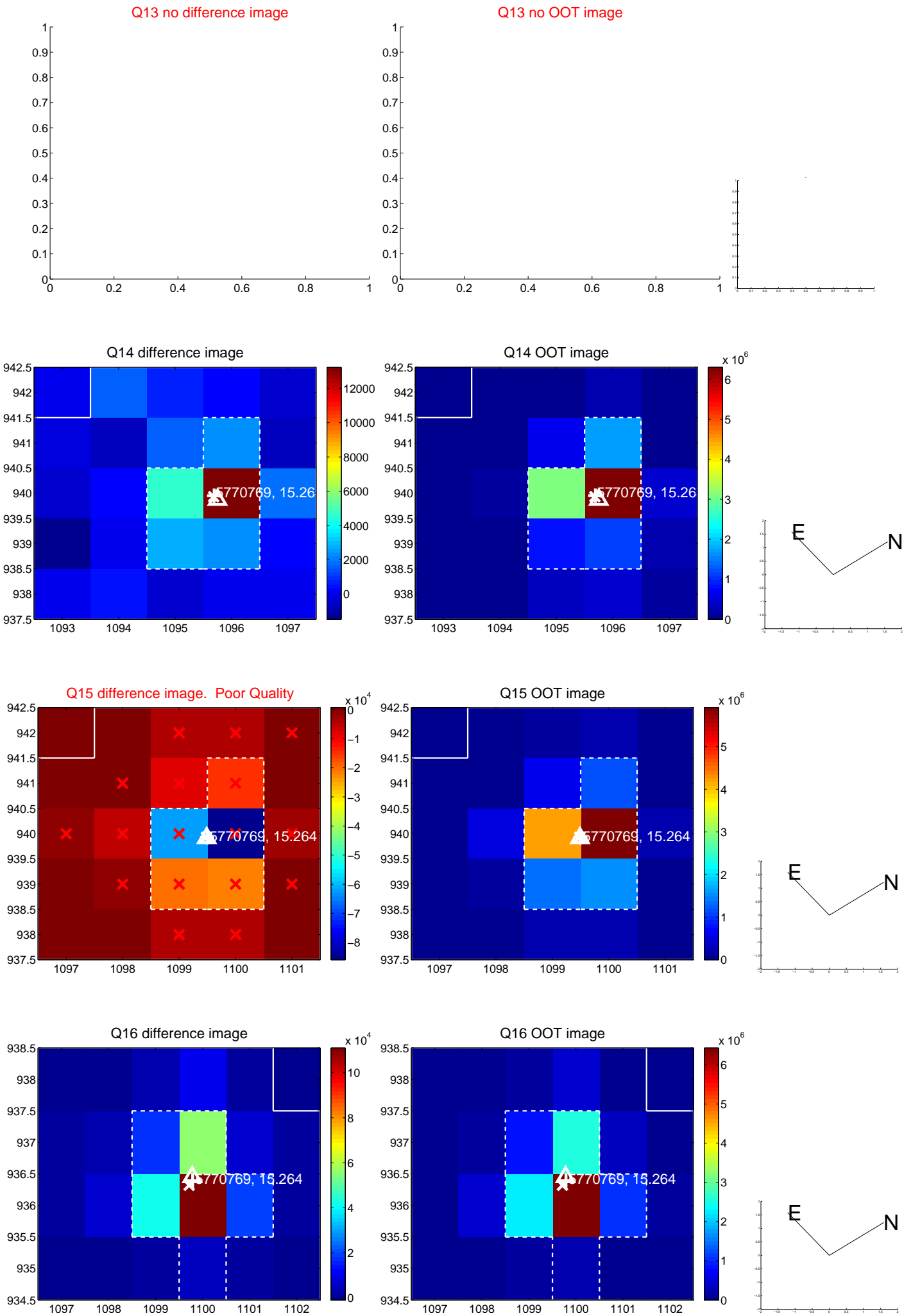
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



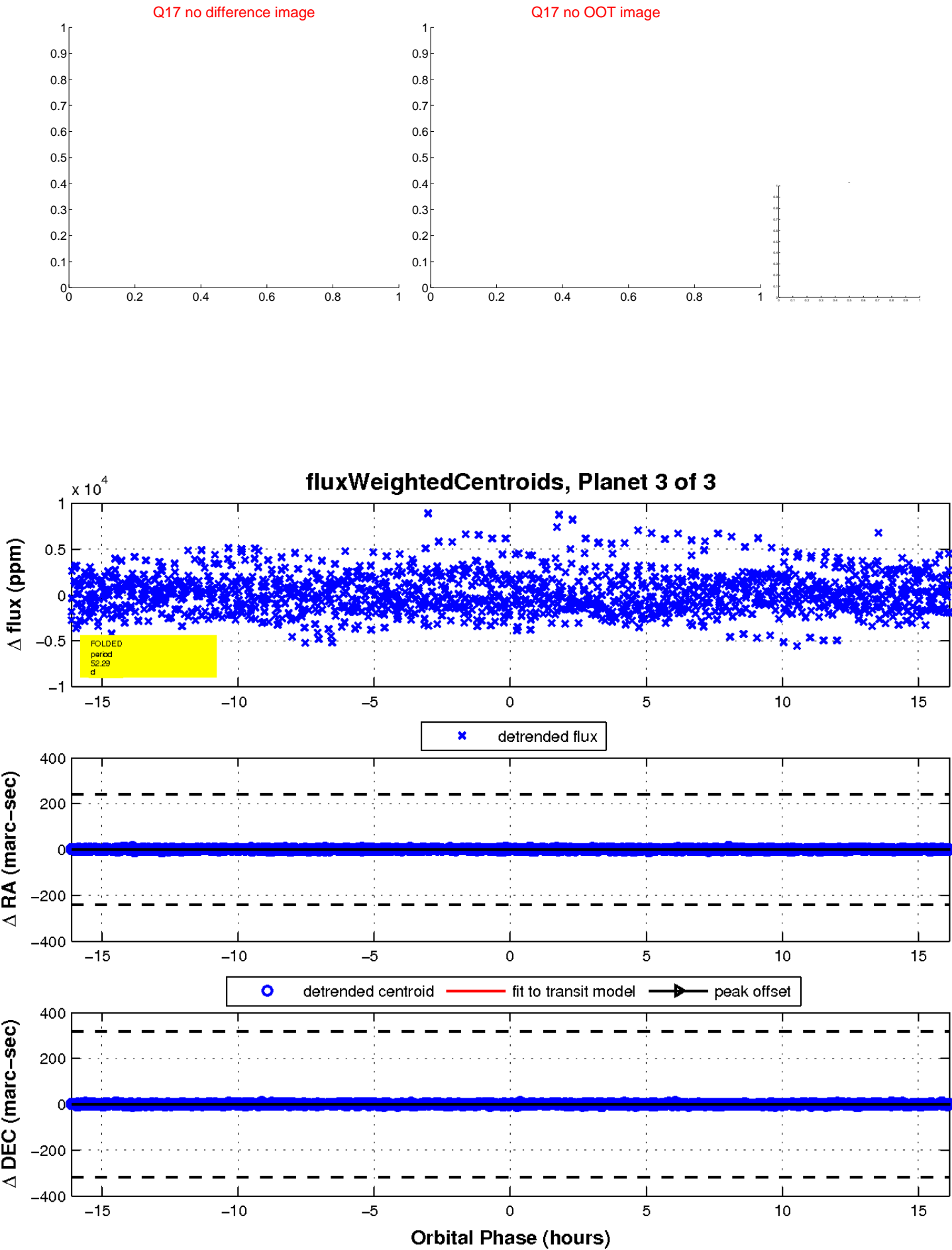
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

