

KIC 005629353

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})
005629353-01	OBS	6132.01	33.318756	150.101256	6283.4	6.710	59.2	57.8	1.65	6264	13.31	74.91
005629353-02	OBS	6132.02	7.584452	137.842060	1081.7	4.150	22.2	24.3	1.65	6264	6.34	538.97
005629353-03	OBS	6132.03	11.866839	143.024463	653.7	4.882	12.1	12.3	1.65	6264	4.72	296.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005629353-01	OBS	PC	1.00	0	0	0	0	CENT_FEW_DIFFS
005629353-02	OBS	PC	1.00	0	0	0	0	CENT_FEW_DIFFS
005629353-03	OBS	PC	1.00	0	0	0	0	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.

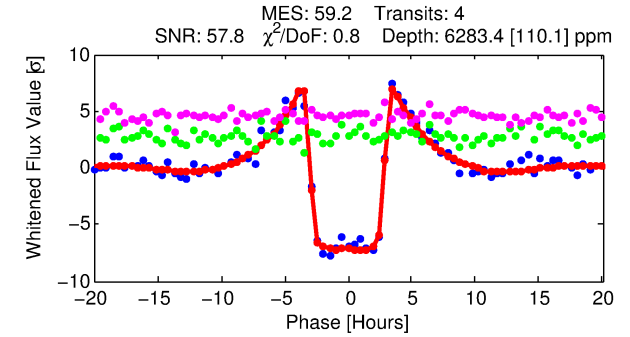
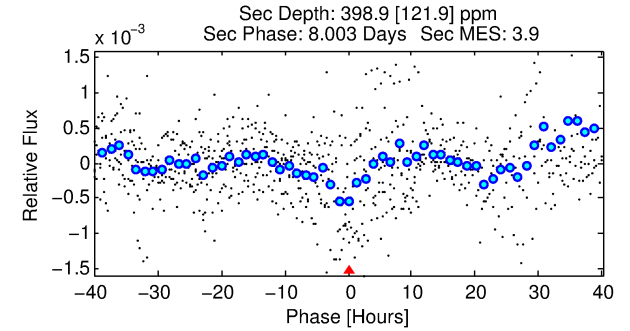
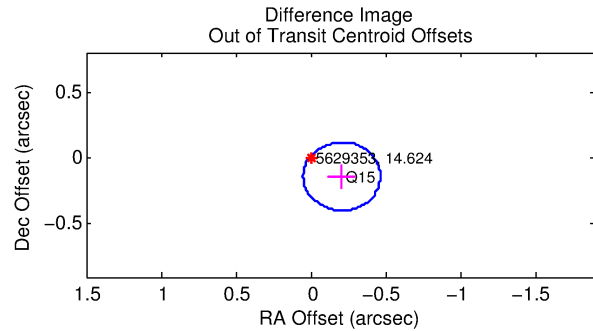
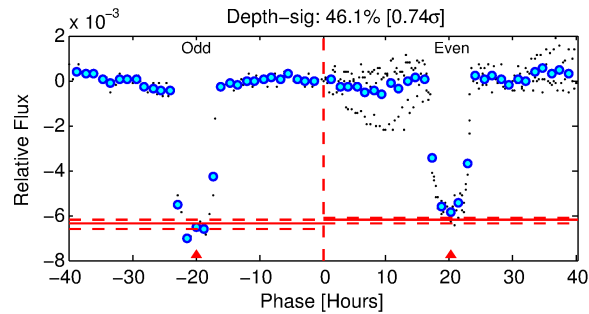
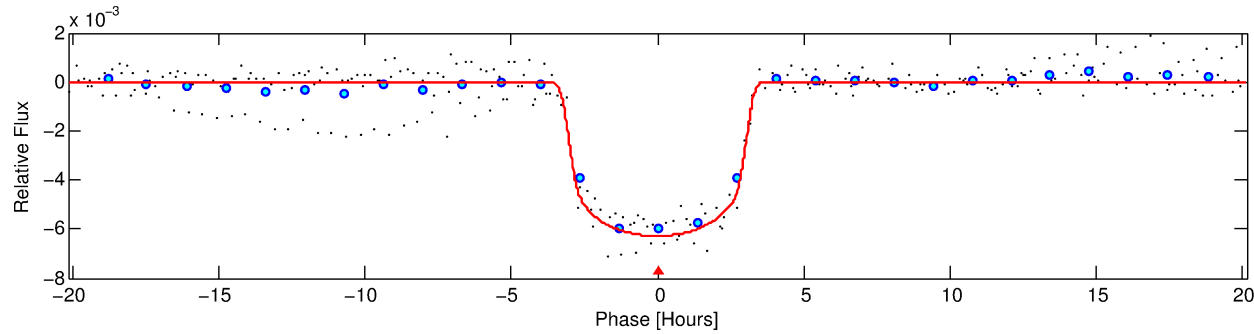
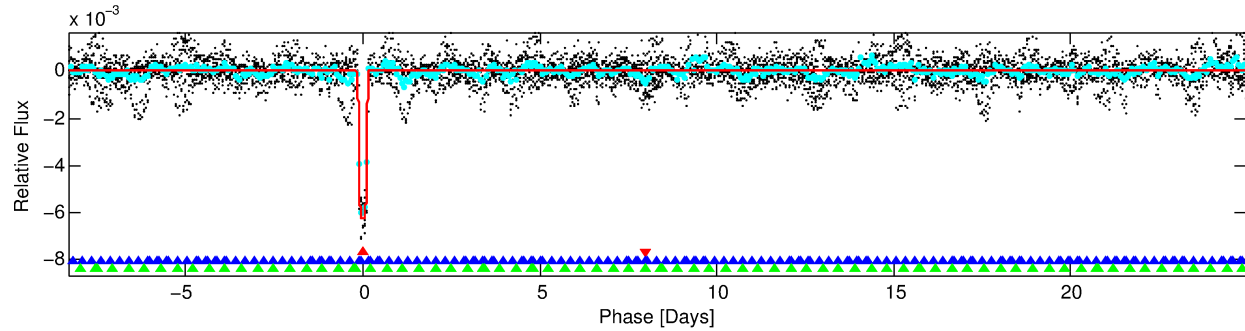
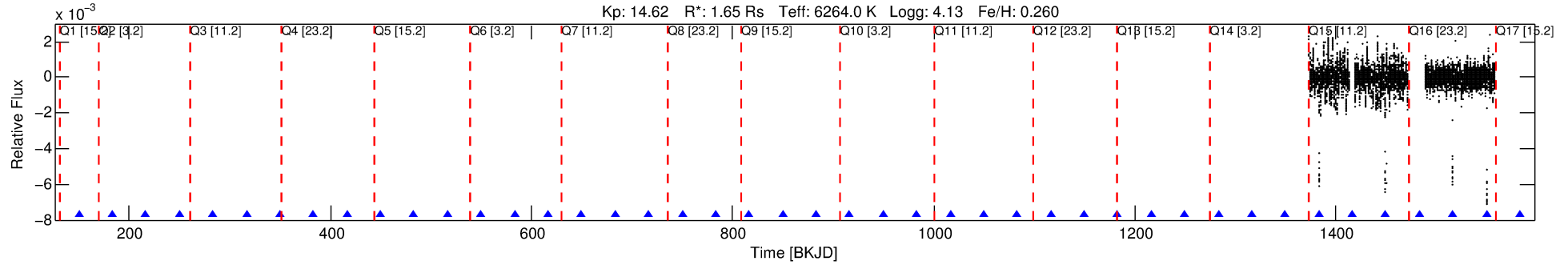
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005629353-01

No Significant Match Found

DV One-Page Summary

KIC: 5629353 Candidate: 1 of 3 Period: 33.319 d
KOI: K06132.01 Corr: 0.922



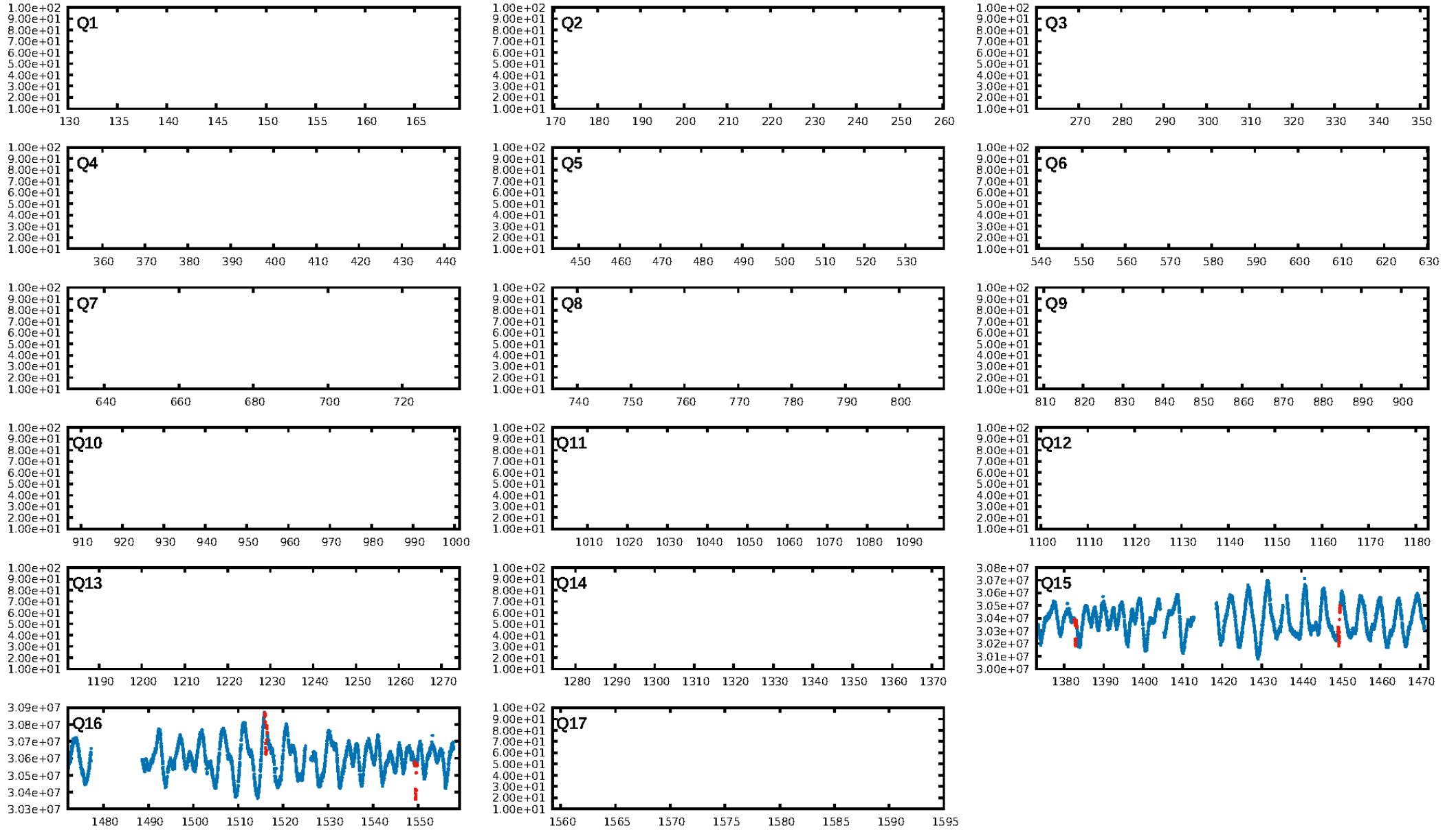
DV Fit Results:

Period = 33.31876 [0.00037] d
Epoch = 150.1013 [0.0145] BKJD
Rp/R* = 0.0739 [0.0020]
a/R* = 37.64 [4.35]
b = 0.41 [0.24]
Seff = 74.91 [30.34]
Teq = 750 [76] K
Rp = 13.31 [4.06] Re
a = 0.2240 [0.0570] AU
Ag = 62.15 [29.92] [2.04 σ]
Teffp = 3257 [288] K [8.42 σ]

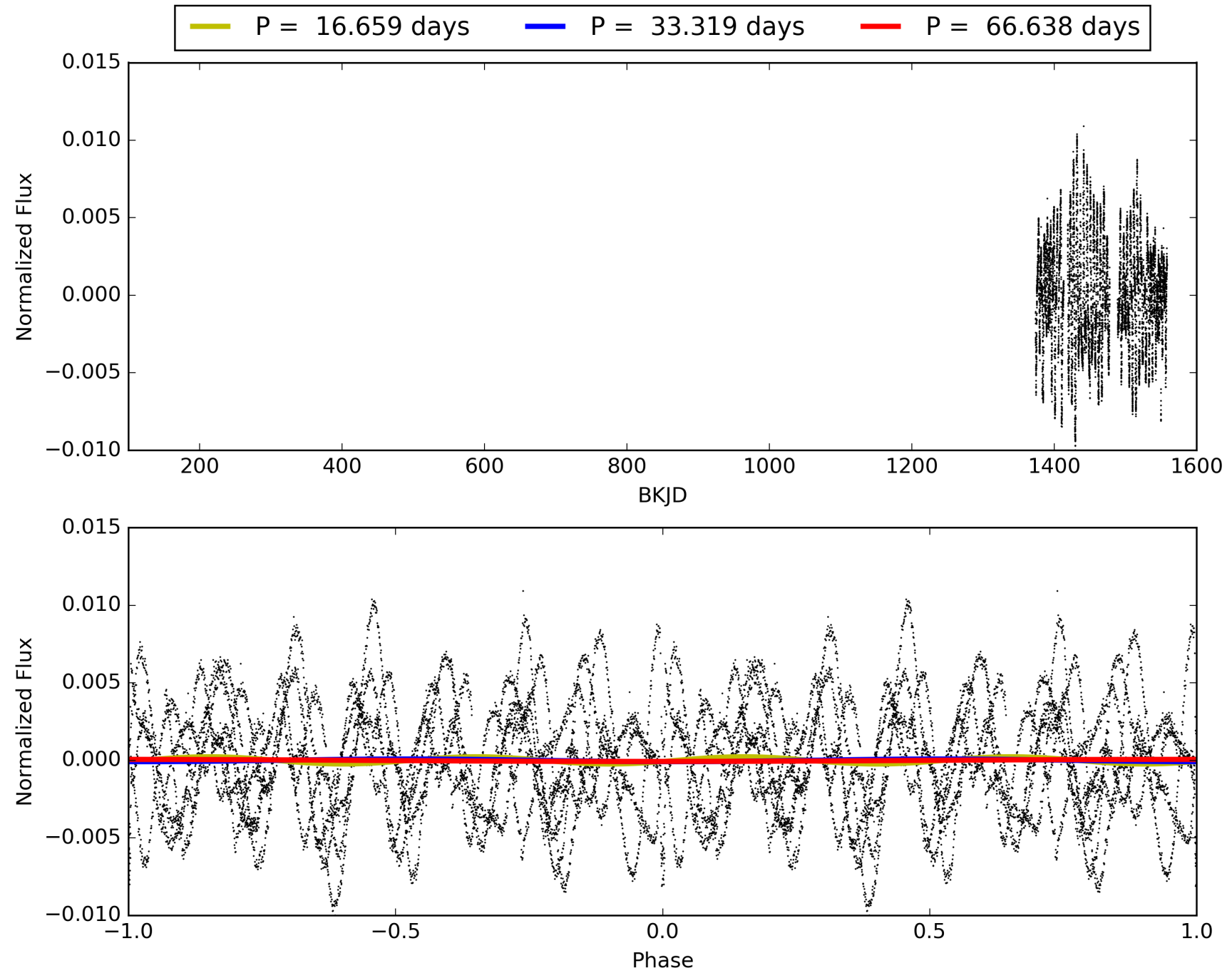
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [62.04 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 82.3%
ModelChiSquareGof-sig: 99.8%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 2.145
Centroid-sig: 0.0%
Centroid-so: 0.431 arcsec [3.55 σ]
OotOffset-rm: 0.250 arcsec [2.90 σ]
KicOffset-rm: 0.209 arcsec [2.43 σ]
OotOffset-st: 0/1/0/0 [1]
KicOffset-st: 0/1/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [1/1]

TCE 005629353-01, PDC Light Curves

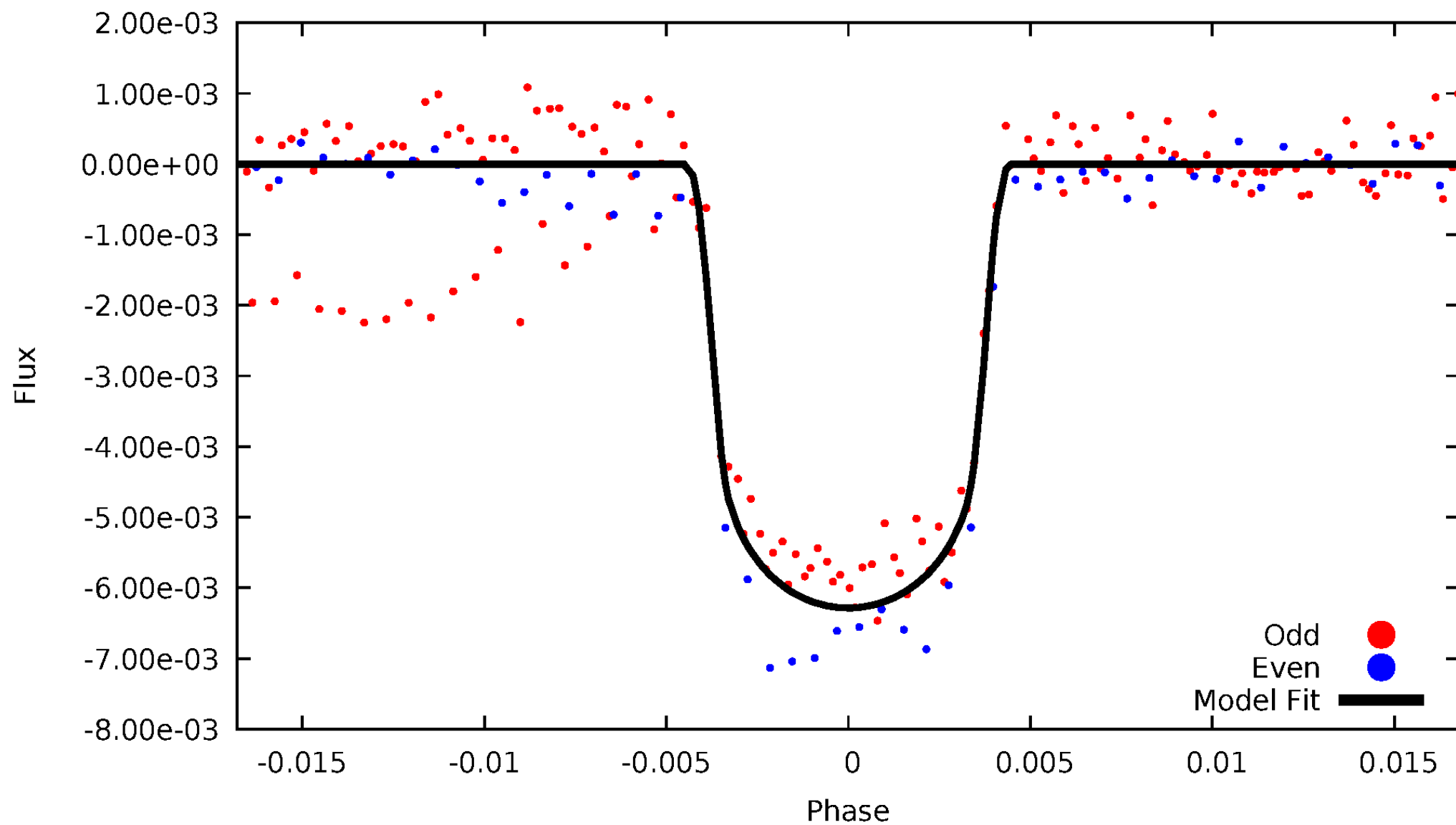


TCE 005629353-01



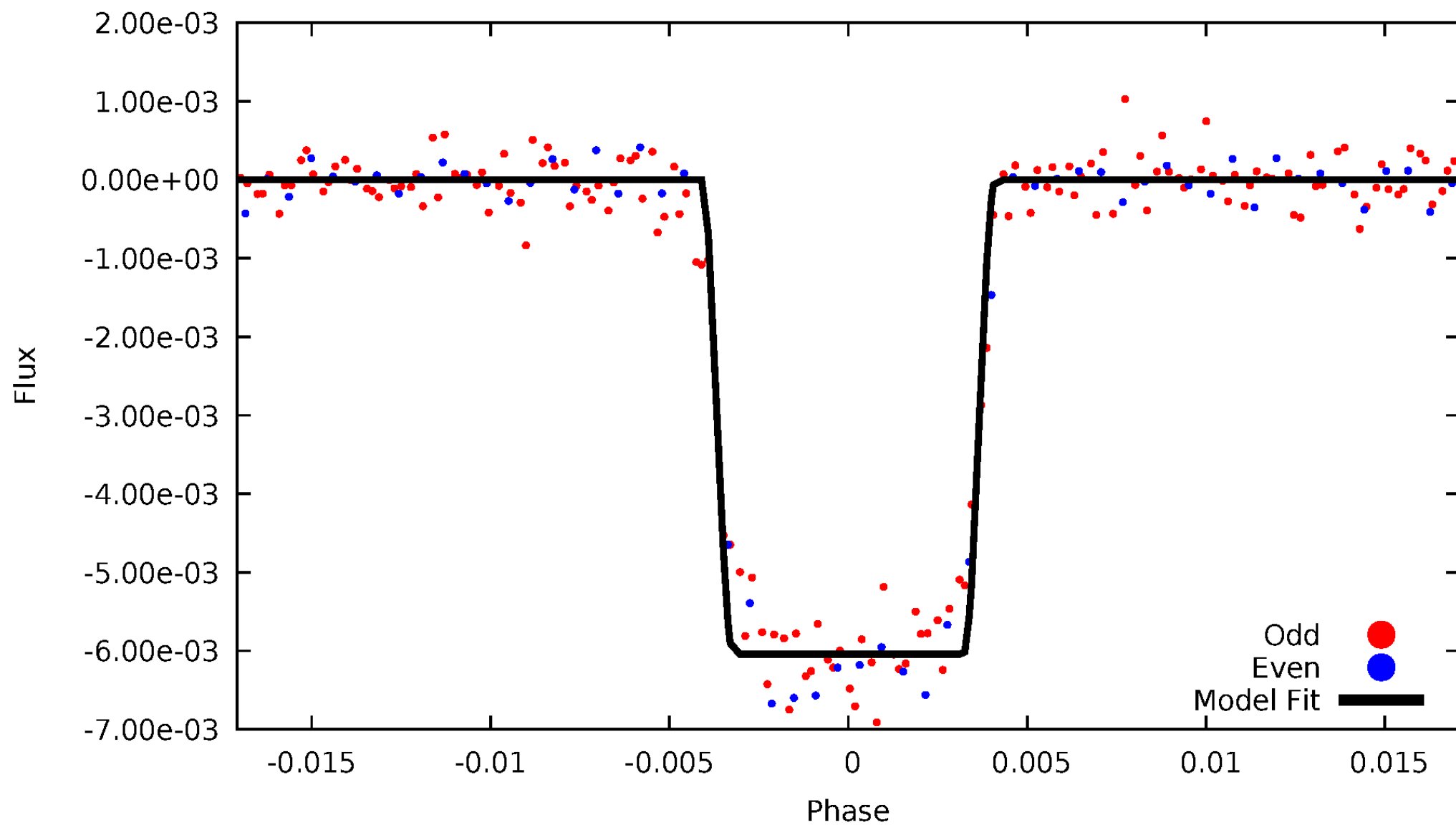
DV Odd/Even

TCE 005629353-01

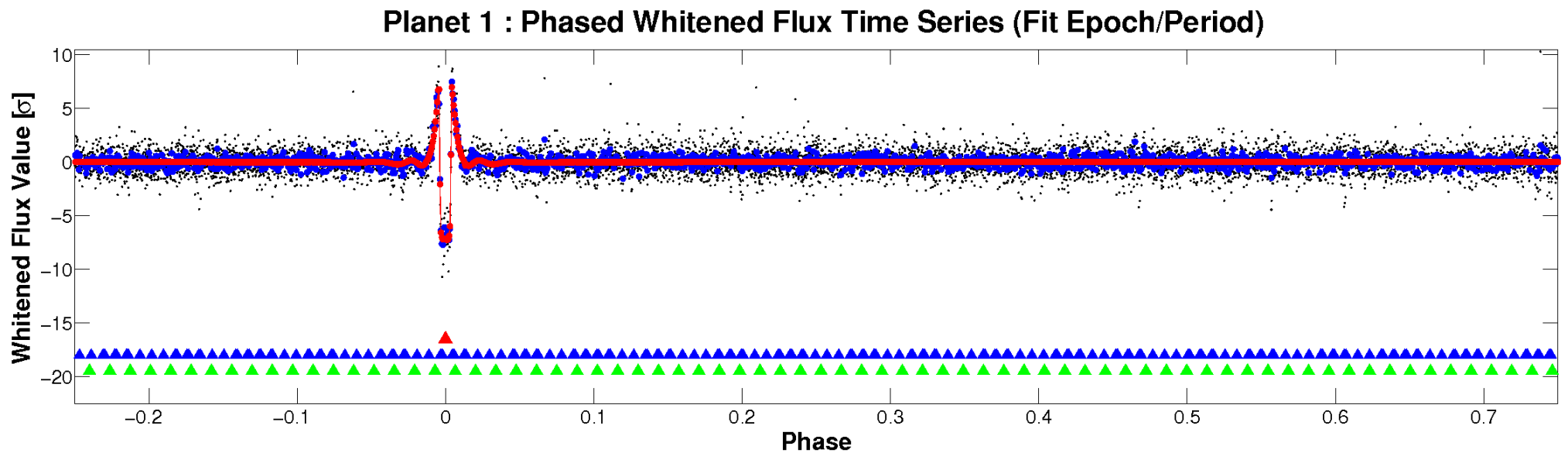
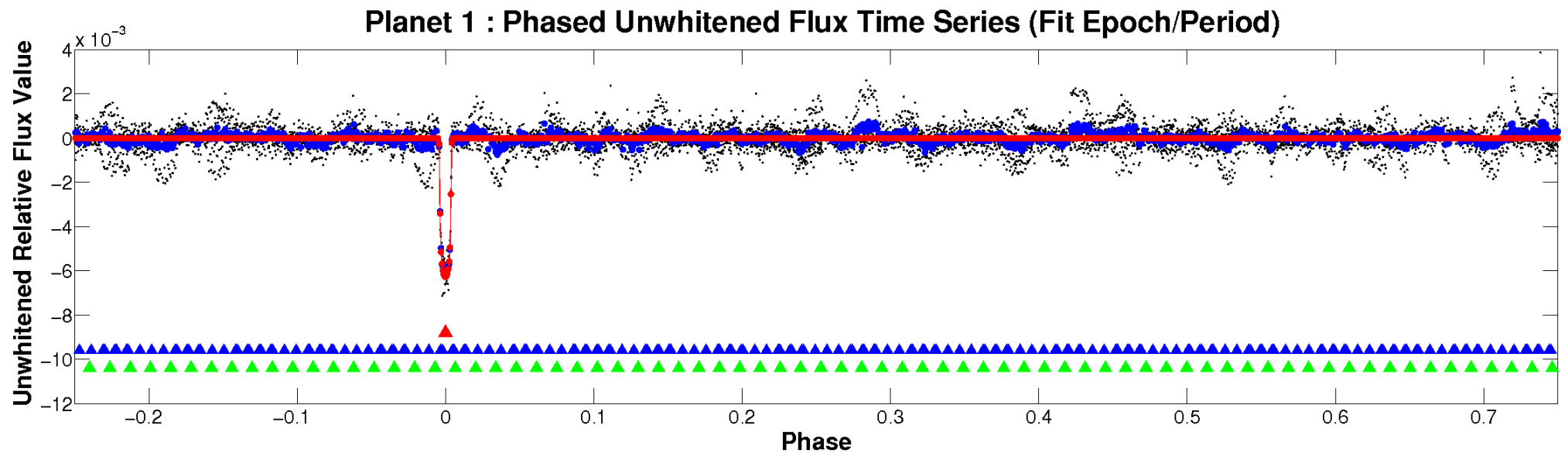


ALT Odd/Even

TCE 005629353-01

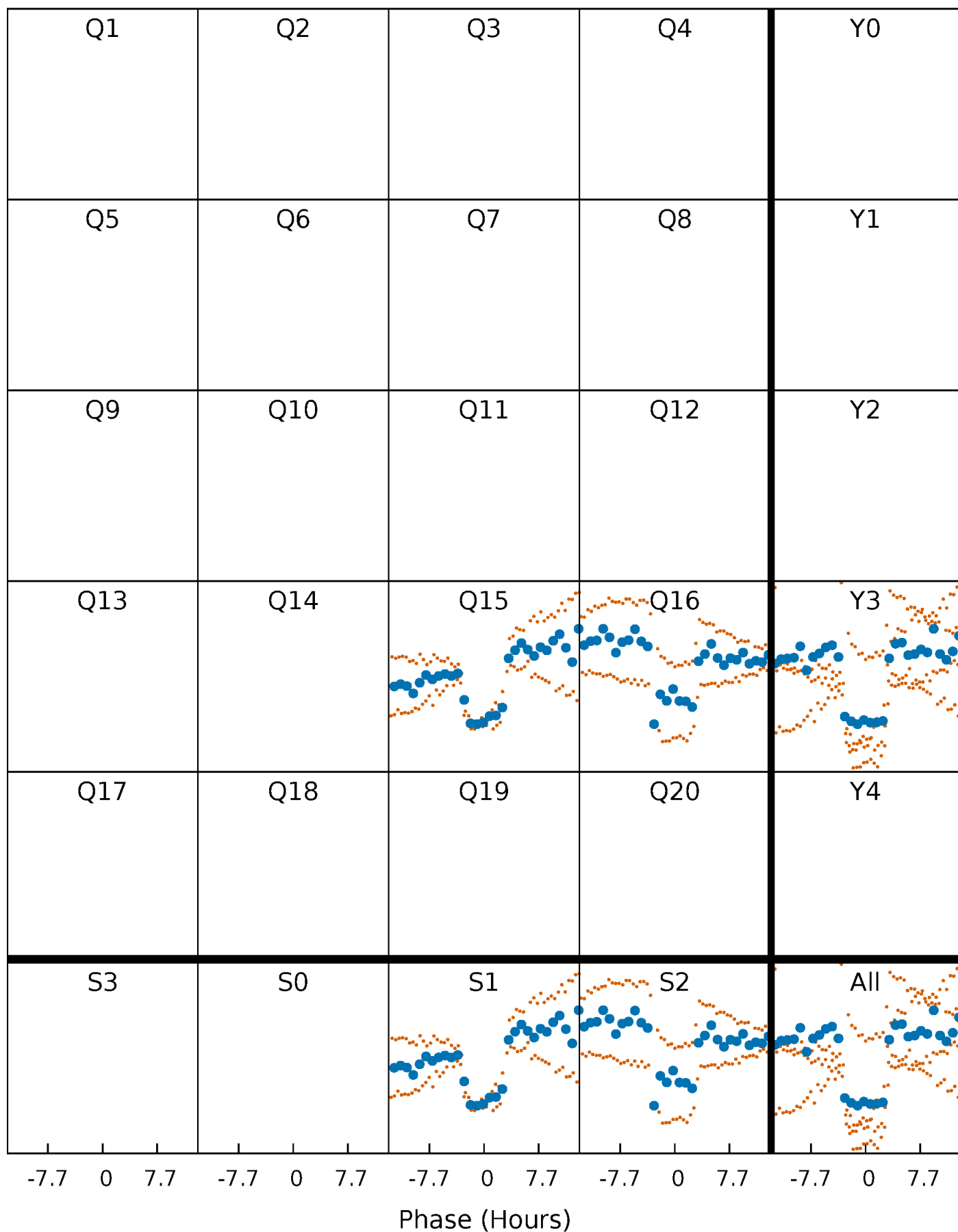


Non-Whitened Vs. Whitened Light Curve



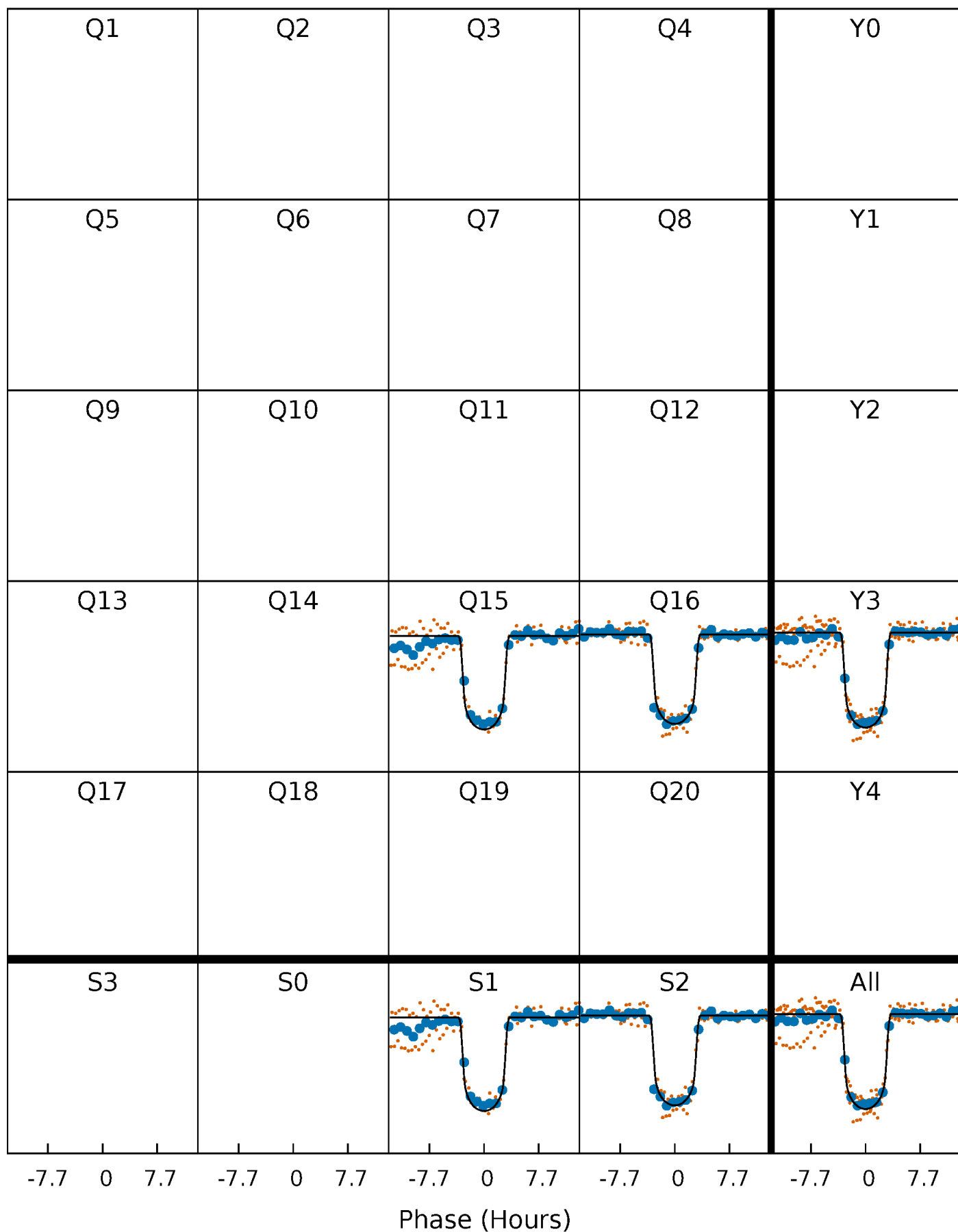
PDC Quarter-Phased Transit Curves

TCE 005629353-01 P= 33.318756 Days $T_0=150.101256$ (BKJD)



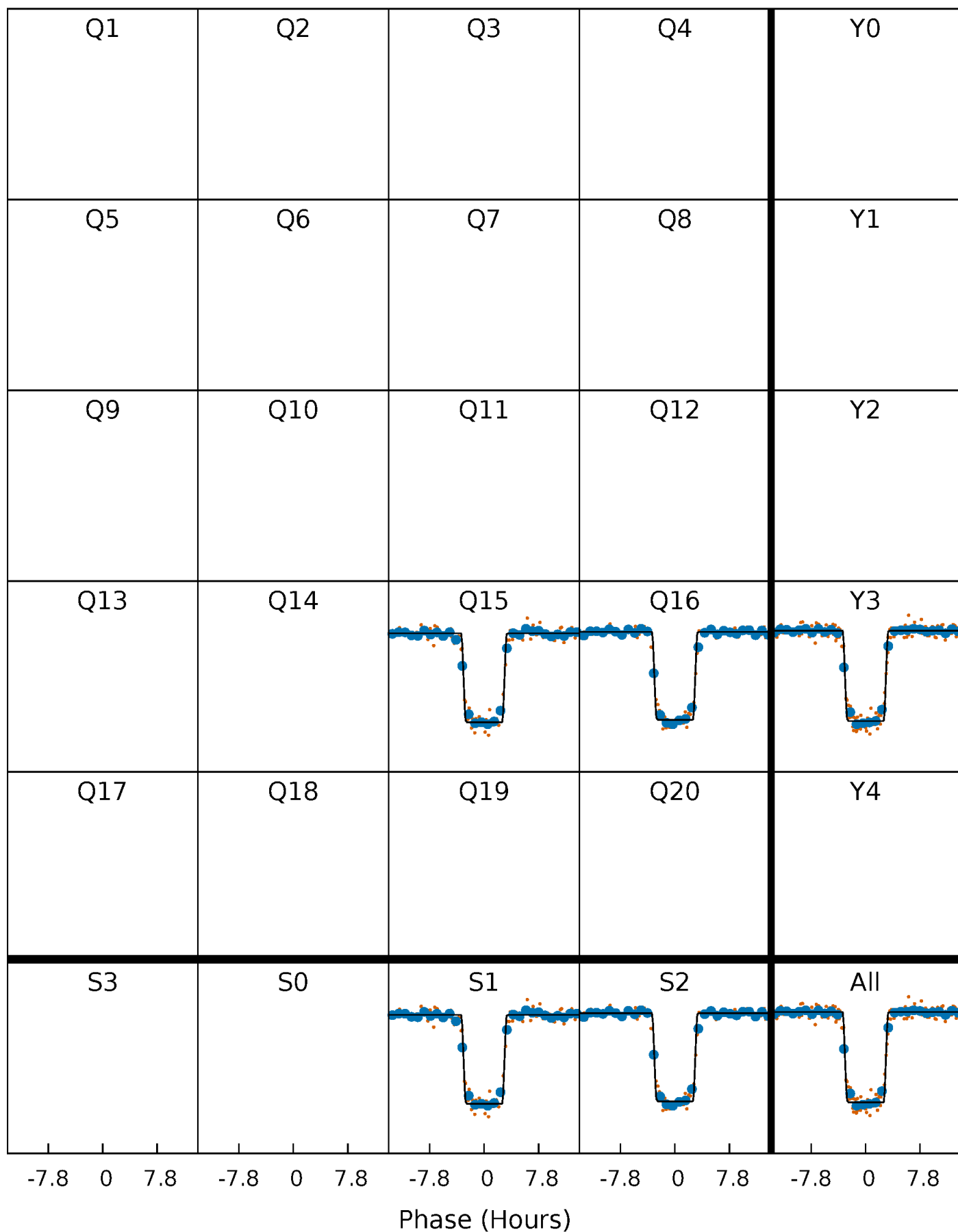
DV Quarter-Phased Transit Curves

TCE 005629353-01 P= 33.318756 Days $T_0=150.101256$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

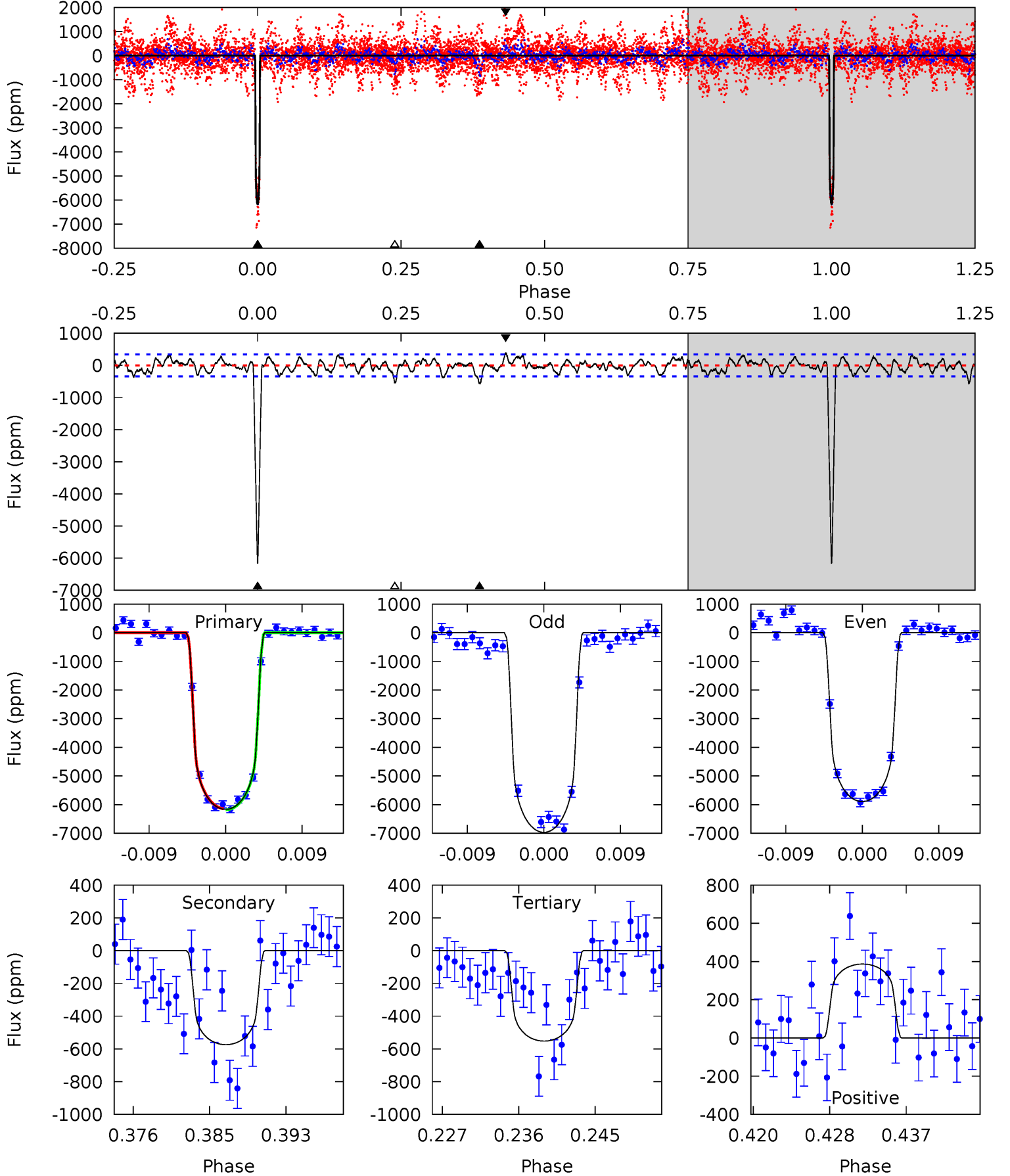
TCE 005629353-01 P= 33.318580 Days $T_0=150.108146$ (BKJD)



DV Model-Shift Uniqueness Test

005629353-01, P = 33.318756 Days, E = 150.101256 Days

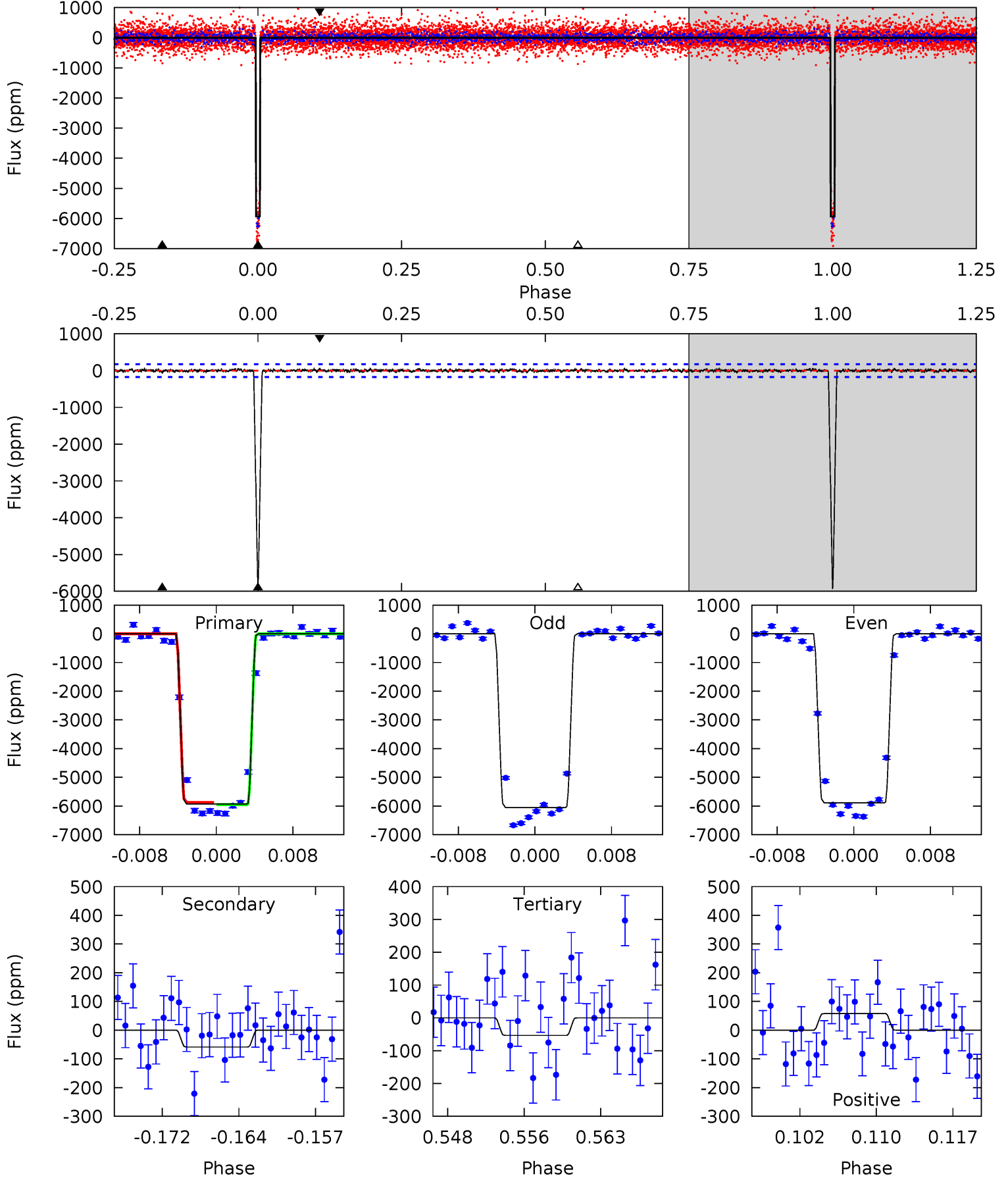
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
90.9	8.46	8.14	5.70	5.05	2.62	2.19	82.8	85.2	0.32	2.76	6.95	1.03	0.06	0.25



Alt Model-Shift Uniqueness Test

005629353-01, P = 33.318580 Days, E = 150.108146 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
171.1	1.69	1.55	1.67	5.07	2.66	0.54	169.6	169.5	0.14	0.02	2.04	1.00	0.01	1.01



Stellar Parameters For KIC 005629353

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6264^{+177}_{-265}	$4.133^{+0.200}_{-0.180}$	$0.260^{+0.150}_{-0.350}$	$1.651^{+0.502}_{-0.451}$	$1.352^{+0.189}_{-0.230}$	$0.423^{+0.509}_{-0.198}$
	+3%/-4%	+5%/-4%	+58%/-135%	+30%/-27%	+14%/-17%	+120%/-47%
Source	KIC0	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 005629353-01 / KOI 6132.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-574±68	$13.31^{+2.12}_{-1.82}$	1043^{+85}_{-78}	3892^{+135}_{-143}	87^{+31}_{-22}
Alt.	-59±35	$14.12^{+2.27}_{-2.17}$	1044^{+93}_{-83}	2720^{+189}_{-284}	$7.986^{+6.366}_{-4.717}$

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

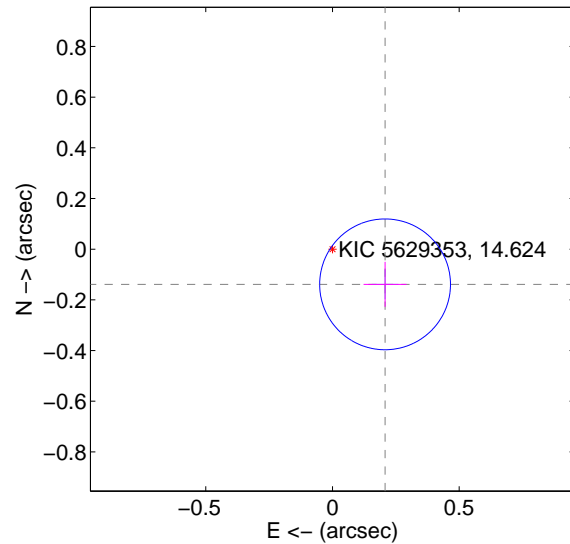
Supplemental centroid analysis for 005629353-01. Kepler magnitude: 14.62. Transit SNR 57.82

There are 1 quarters with good PRF difference image offsets

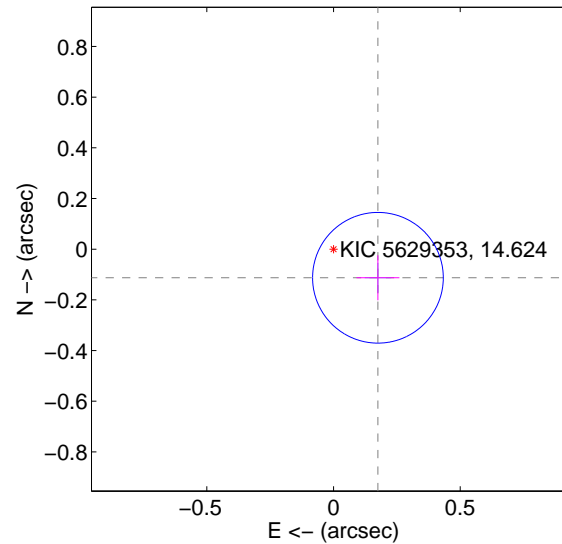
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.250 ± 0.086	2.90	-0.208 ± 0.085	-0.139 ± 0.089
PRF-fit source offset from KIC position	0.209 ± 0.086	2.43	-0.175 ± 0.085	-0.113 ± 0.089
photometric centroid source offset	0.43 ± 0.12	3.55	-0.43 ± 0.12	0.05 ± 0.09

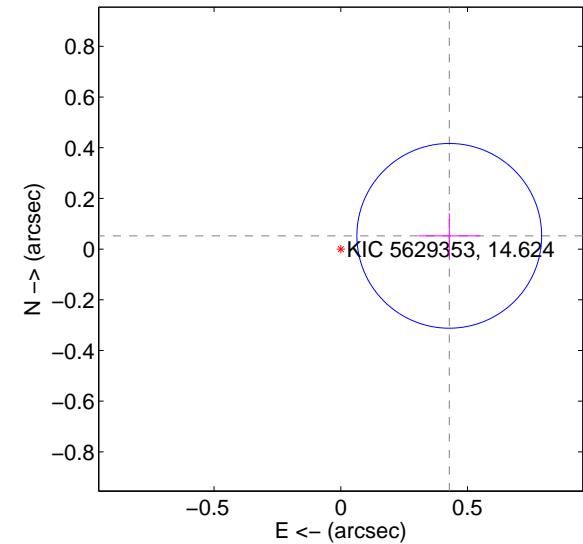
offset from difference PRF-fit to OOT PRF-fit



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.



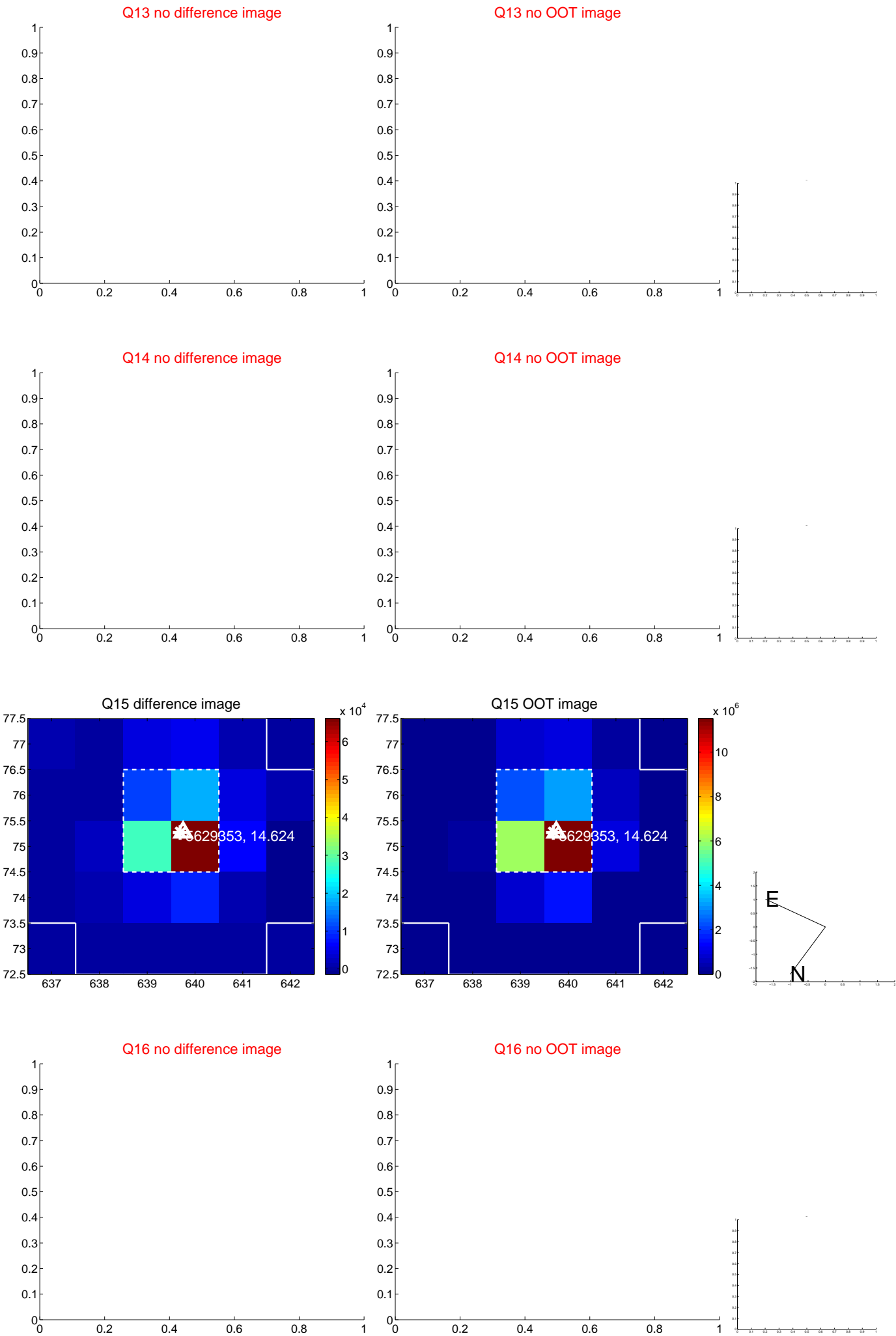
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



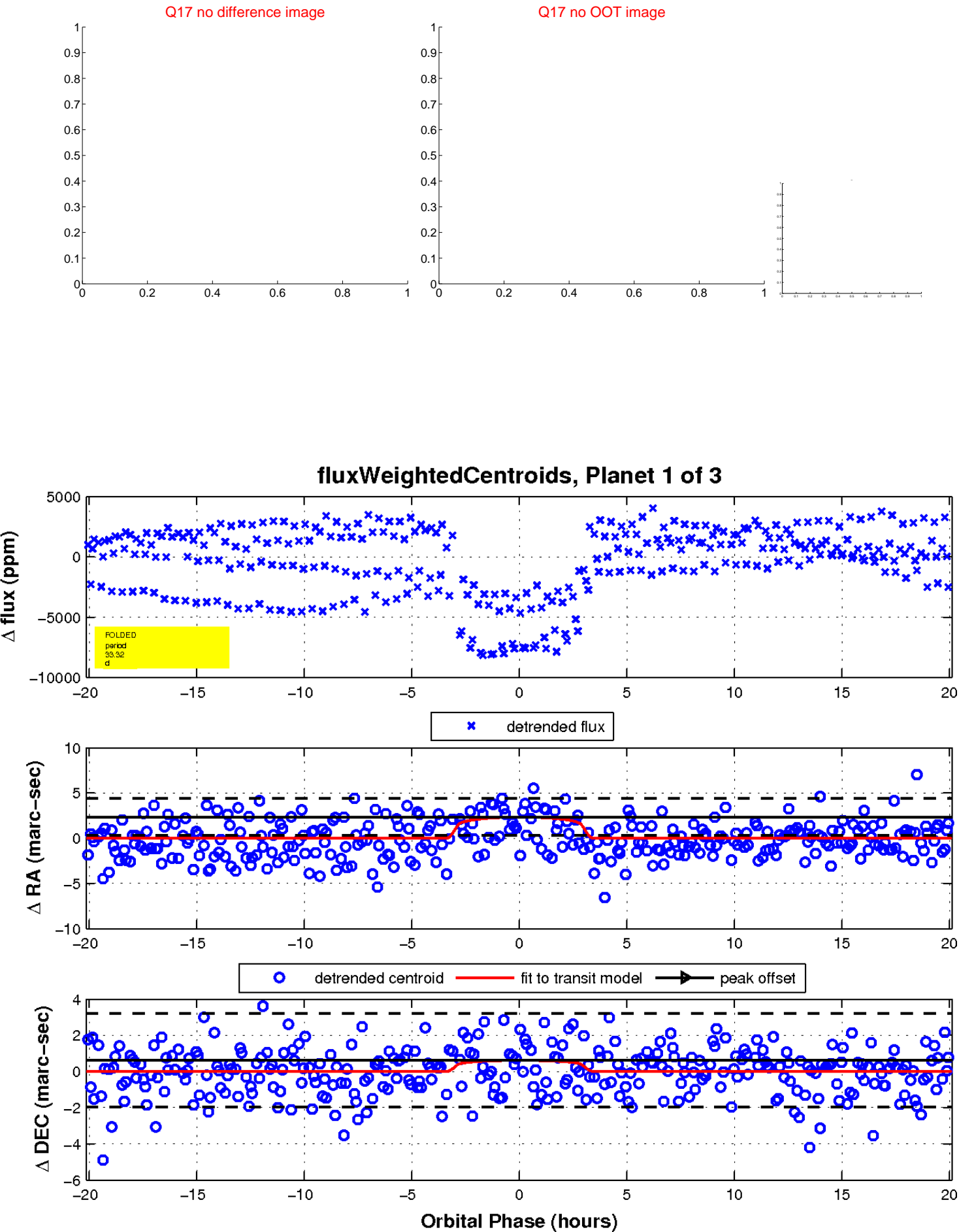
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

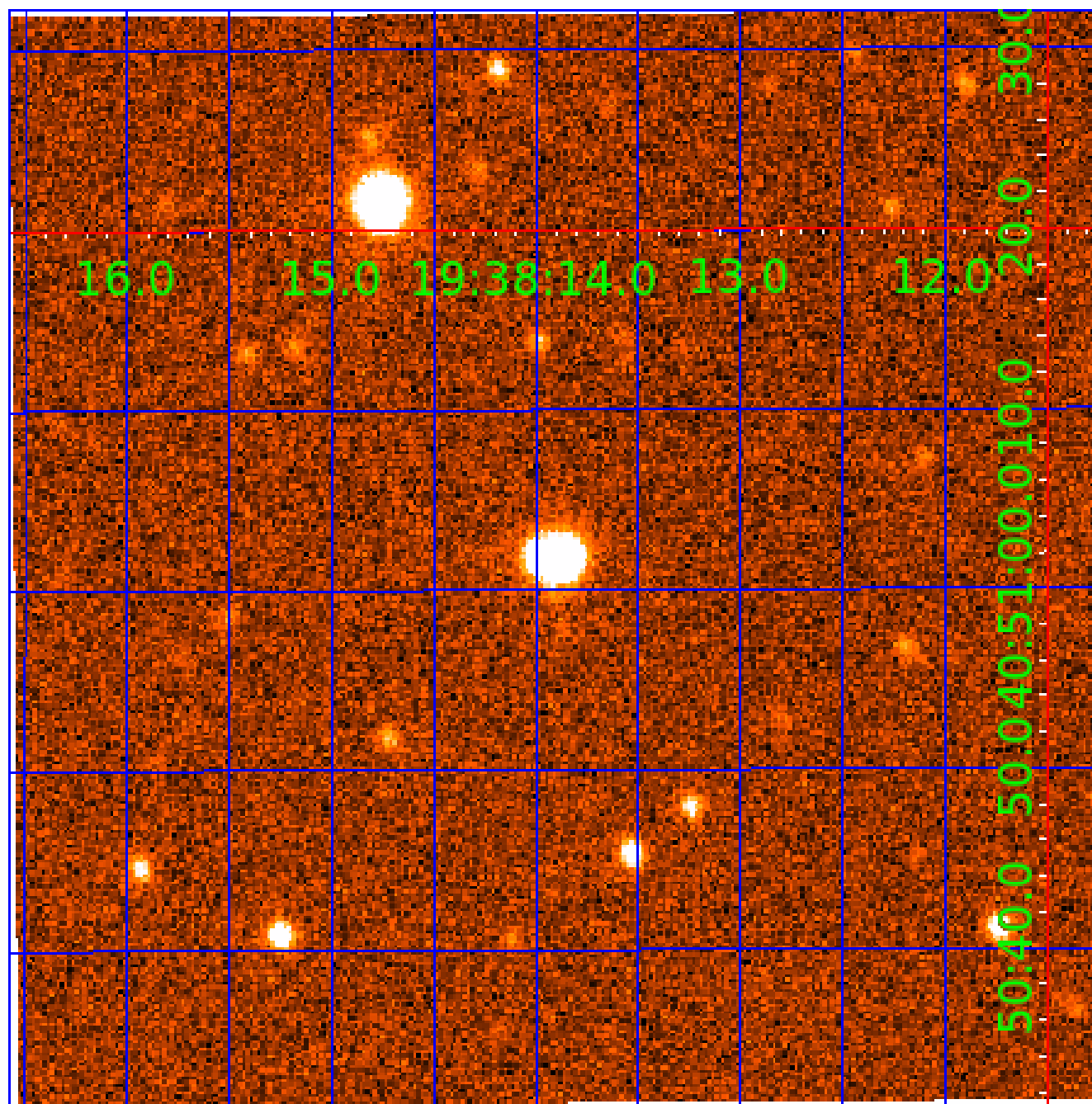


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005629353

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})
005629353-01	OBS	6132.01	33.318756	150.101256	6283.4	6.710	59.2	57.8	1.65	6264	13.31	74.91
005629353-02	OBS	6132.02	7.584452	137.842060	1081.7	4.150	22.2	24.3	1.65	6264	6.34	538.97
005629353-03	OBS	6132.03	11.866839	143.024463	653.7	4.882	12.1	12.3	1.65	6264	4.72	296.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005629353-01	OBS	PC	1.00	0	0	0	0	CENT_FEW_DIFFS
005629353-02	OBS	PC	1.00	0	0	0	0	CENT_FEW_DIFFS
005629353-03	OBS	PC	1.00	0	0	0	0	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.

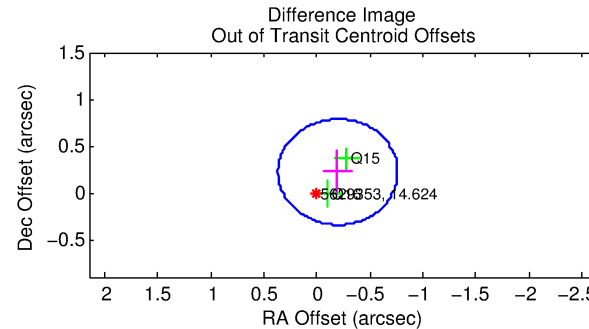
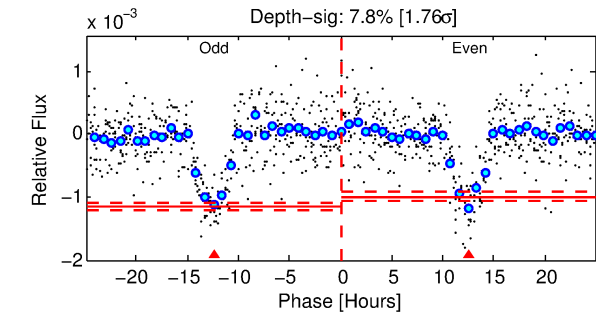
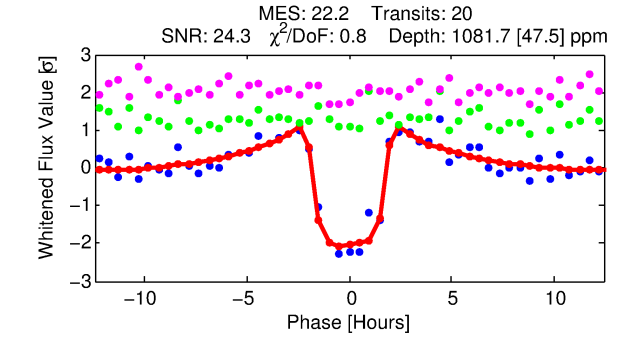
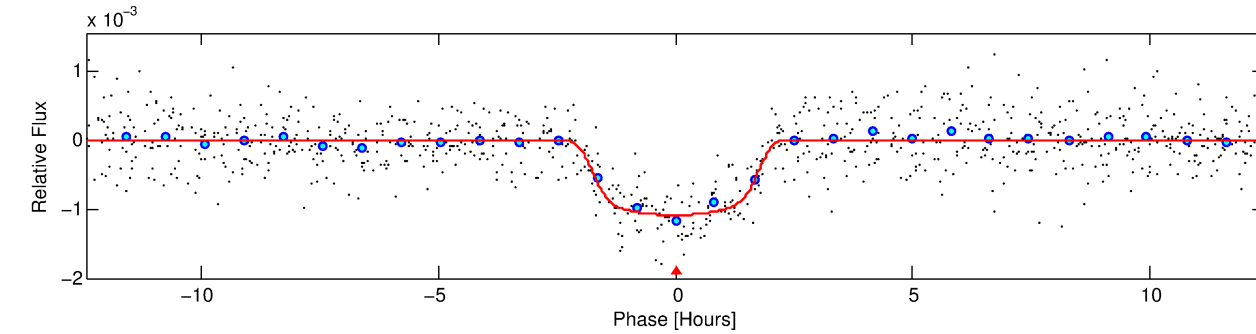
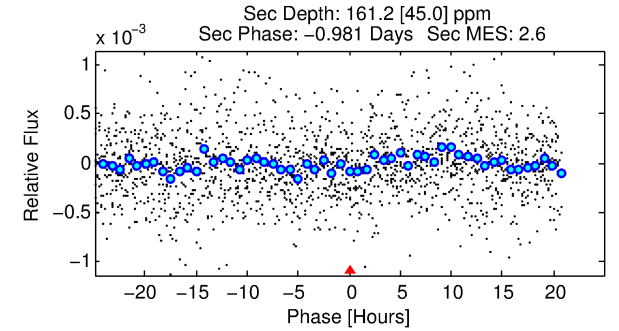
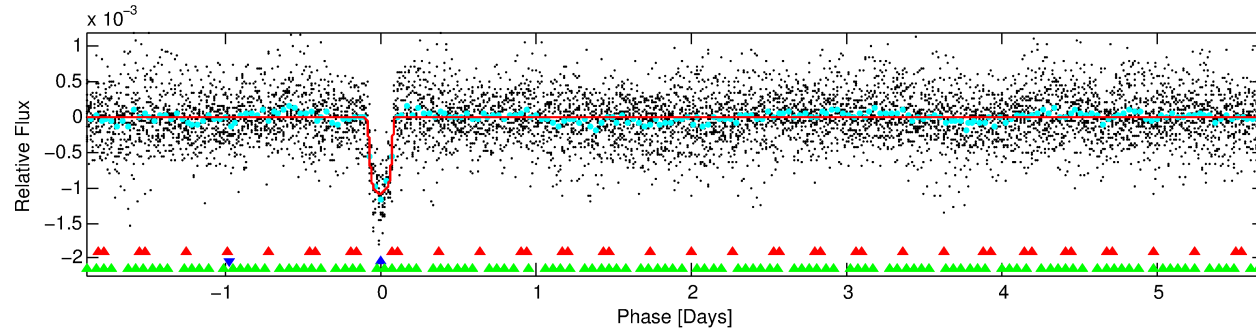
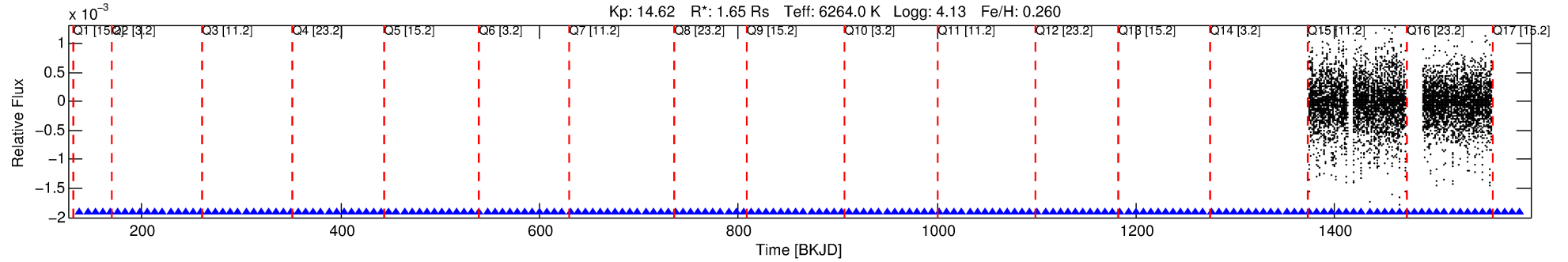
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005629353-02

No Significant Match Found

DV One-Page Summary

KIC: 5629353 Candidate: 2 of 3 Period: 7.584 d
KOI: K06132.02 Corr: 0.958



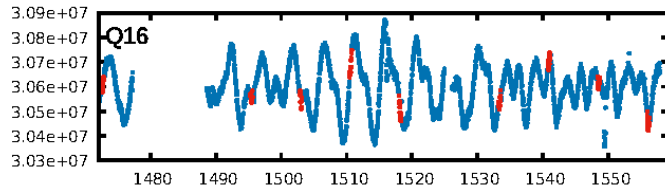
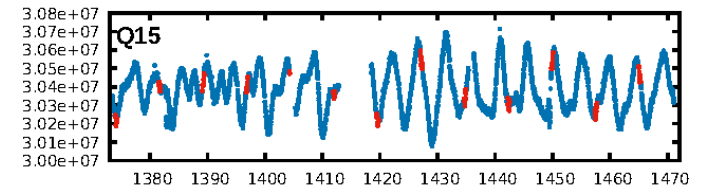
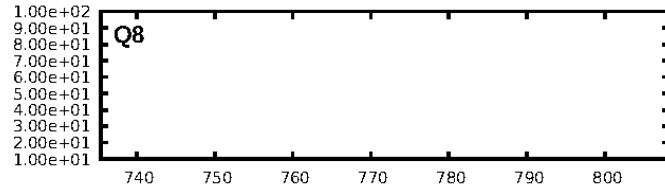
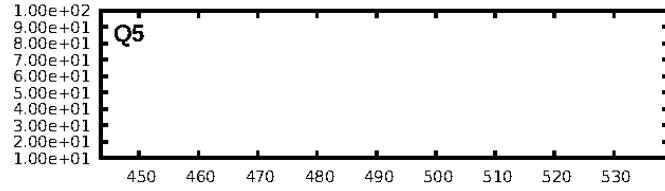
DV Fit Results:

Period = 7.58445 [0.00003] d
Epoch = 137.8421 [0.0037] BKJD
Rp/R* = 0.0352 [0.0021]
a/R* = 7.45 [2.11]
b = 0.89 [0.07]
Seff = 538.97 [218.25]
Teff = 1229 [124] K
Rp = 6.34 [1.97] Re
a = 0.0835 [0.0212] AU
Ag = 15.38 [7.34] [1.96 σ]
Teffp = 3762 [327] K [7.24 σ]

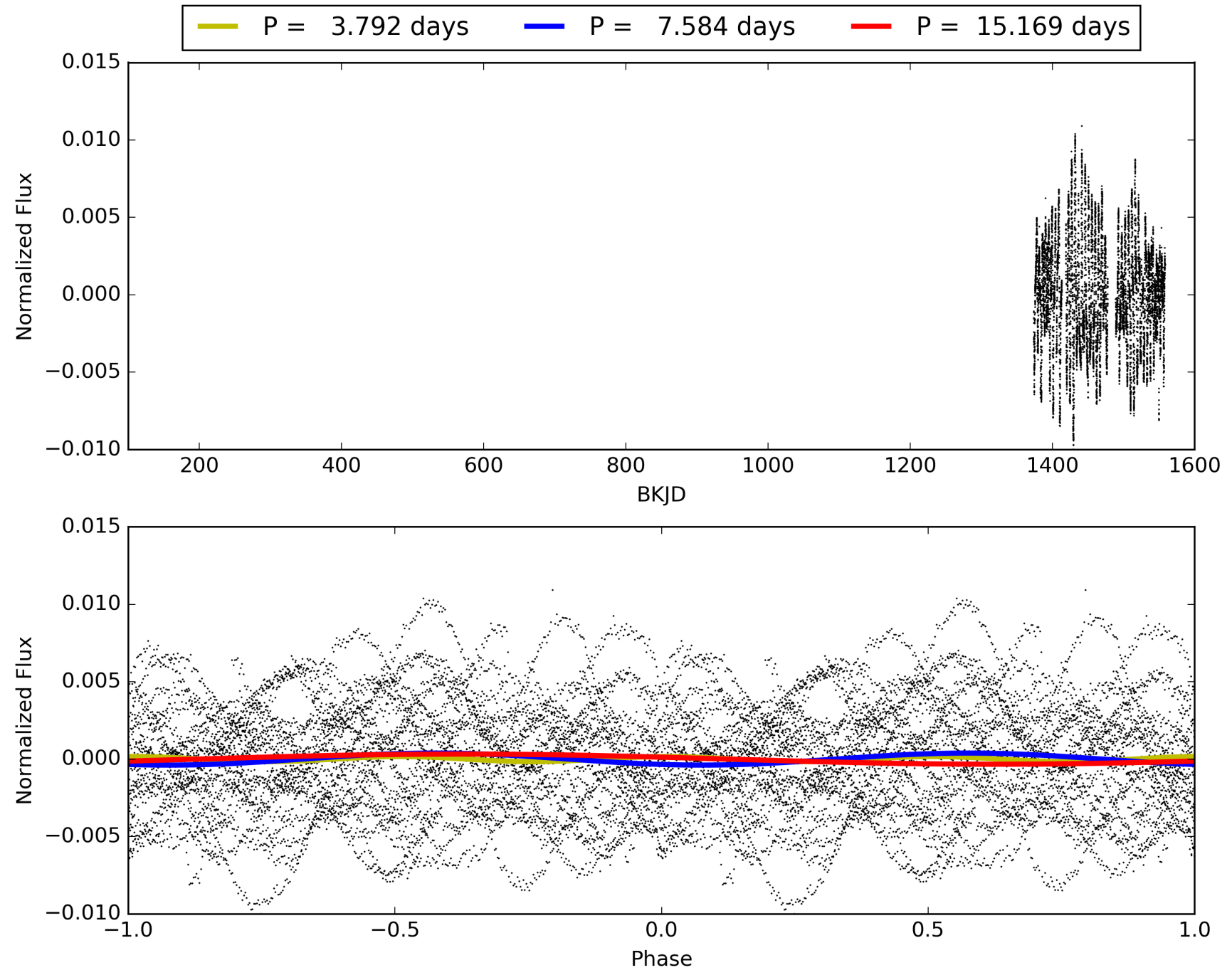
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [16.04 σ]
ModelChiSquare2-sig: 92.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.81e-102
RollingBand-fgt: 1.00 [20/20]
GhostDiagnostic-chr: 2.53
Centroid-sig: 4.5%
Centroid-so: 0.509 arcsec [1.37 σ]
OotOffset-rm: 0.297 arcsec [1.58 σ]
KicOffset-rm: 0.319 arcsec [1.32 σ]
OotOffset-st: 0/1/1/0 [2]
KicOffset-st: 0/1/1/0 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [2/2]

TCE 005629353-02, PDC Light Curves

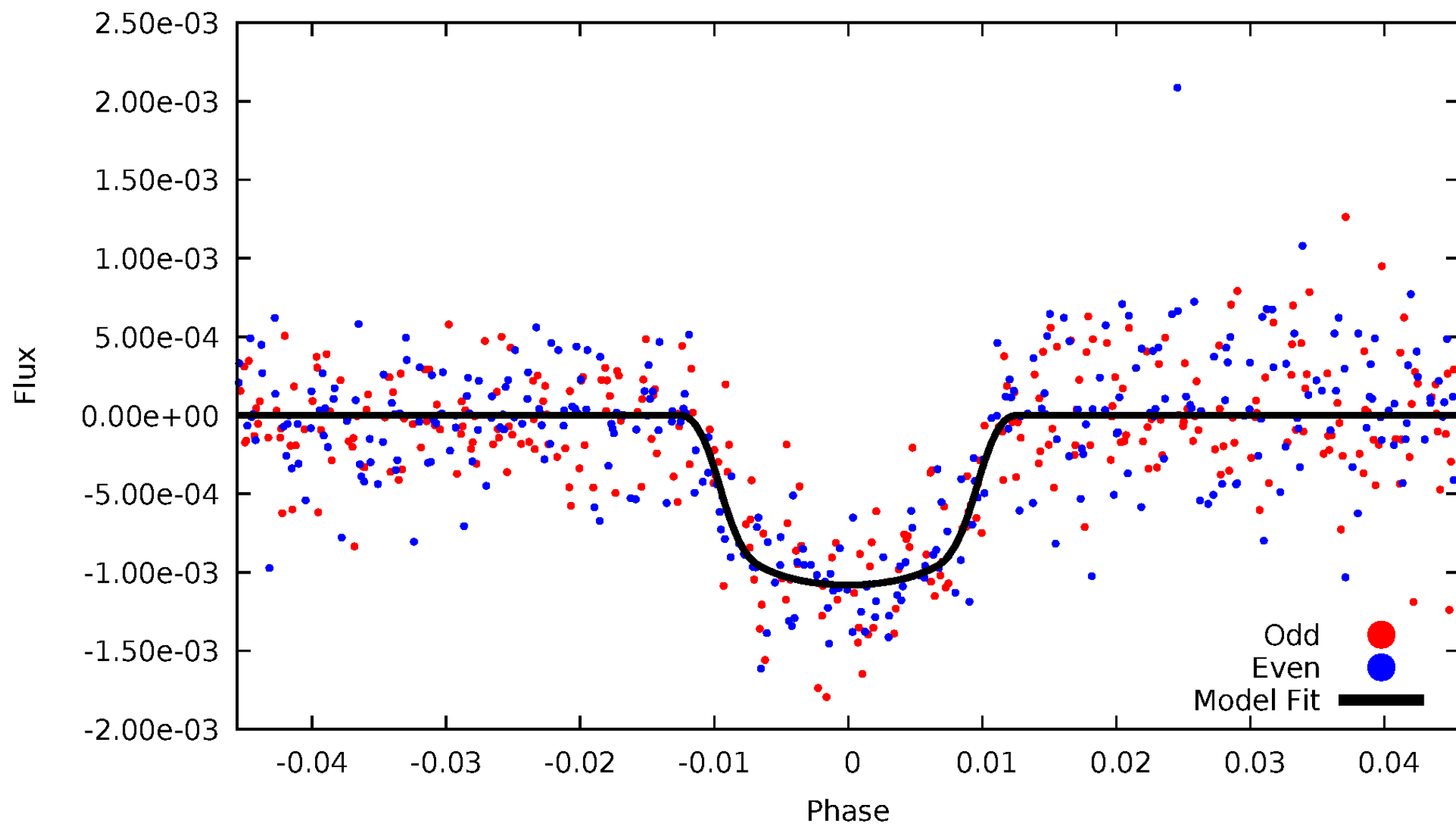


TCE 005629353-02



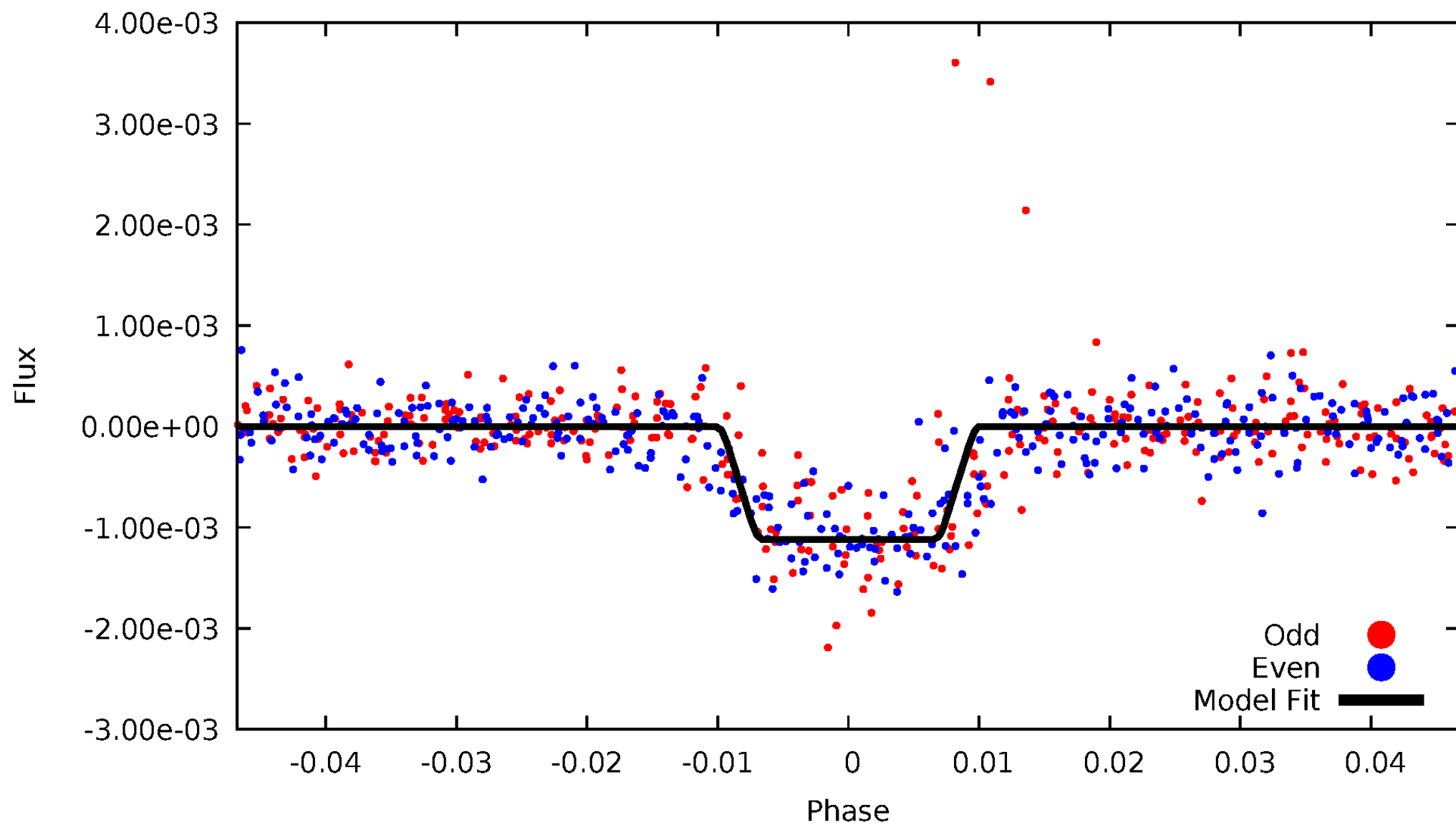
DV Odd/Even

TCE 005629353-02



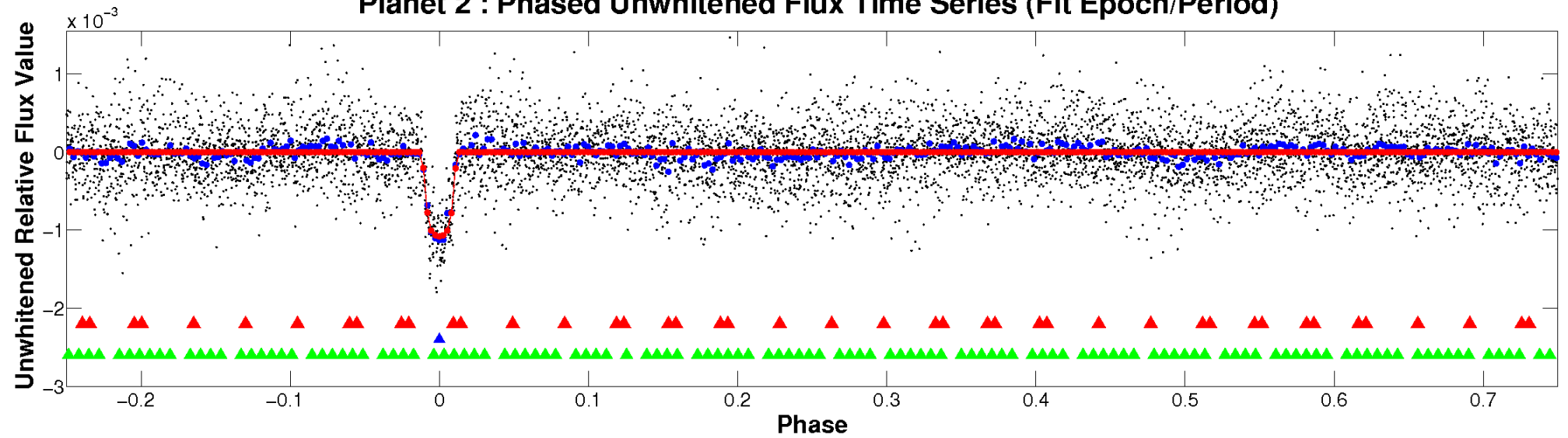
ALT Odd/Even

TCE 005629353-02

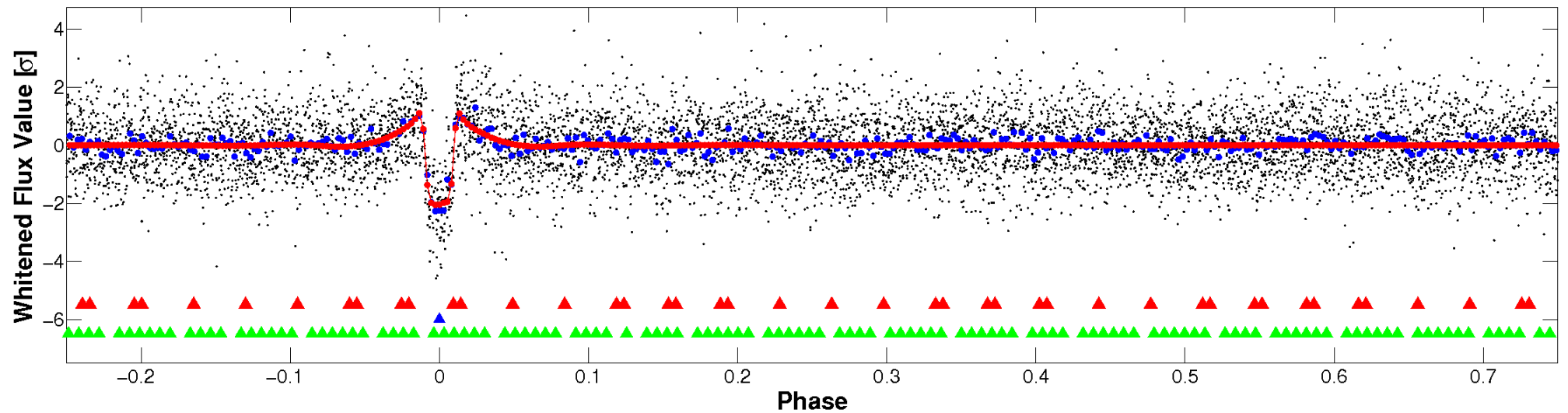


Non-Whitened Vs. Whitened Light Curve

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

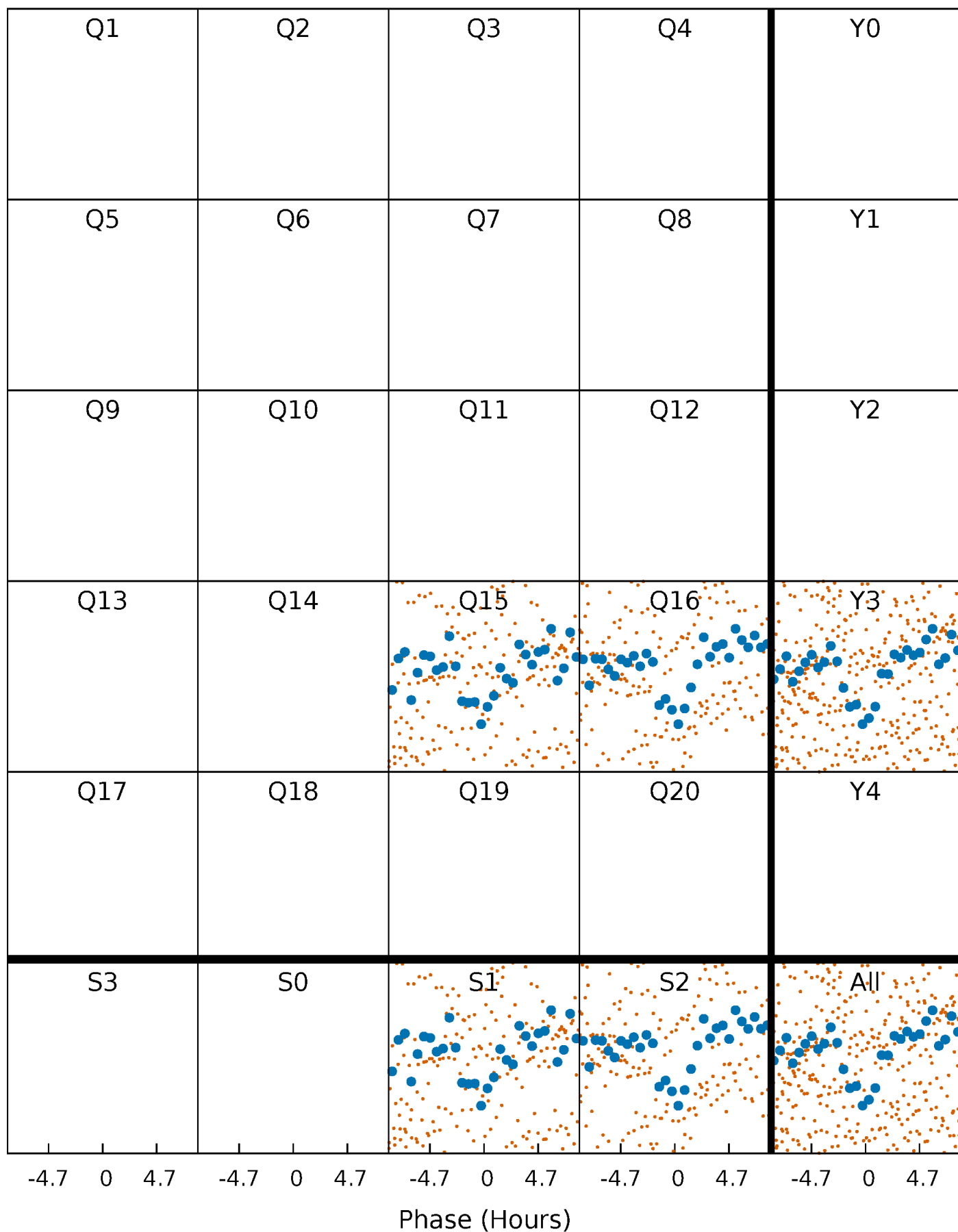


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



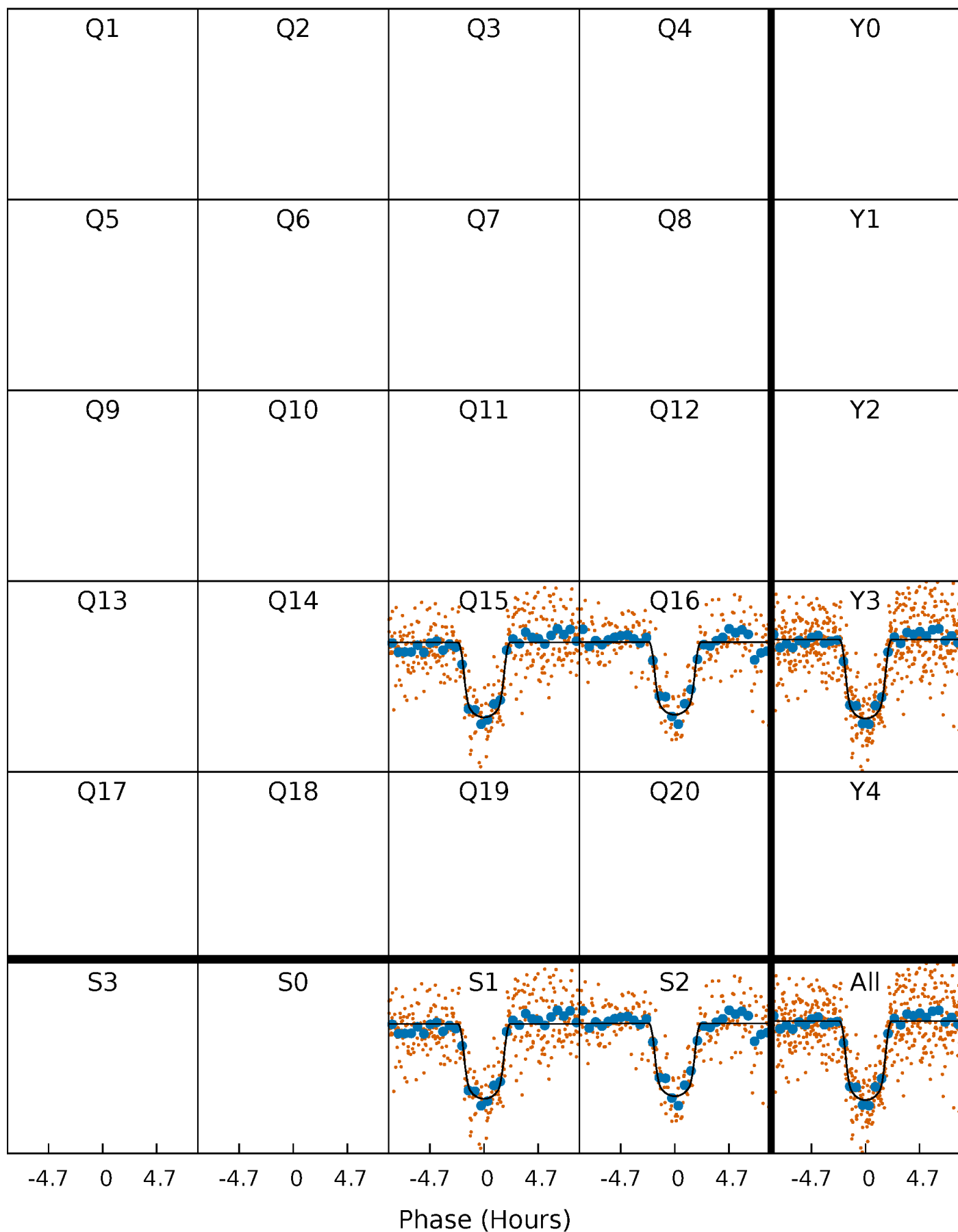
PDC Quarter-Phased Transit Curves

TCE 005629353-02 P= 7.584452 Days $T_0=137.842060$ (BKJD)



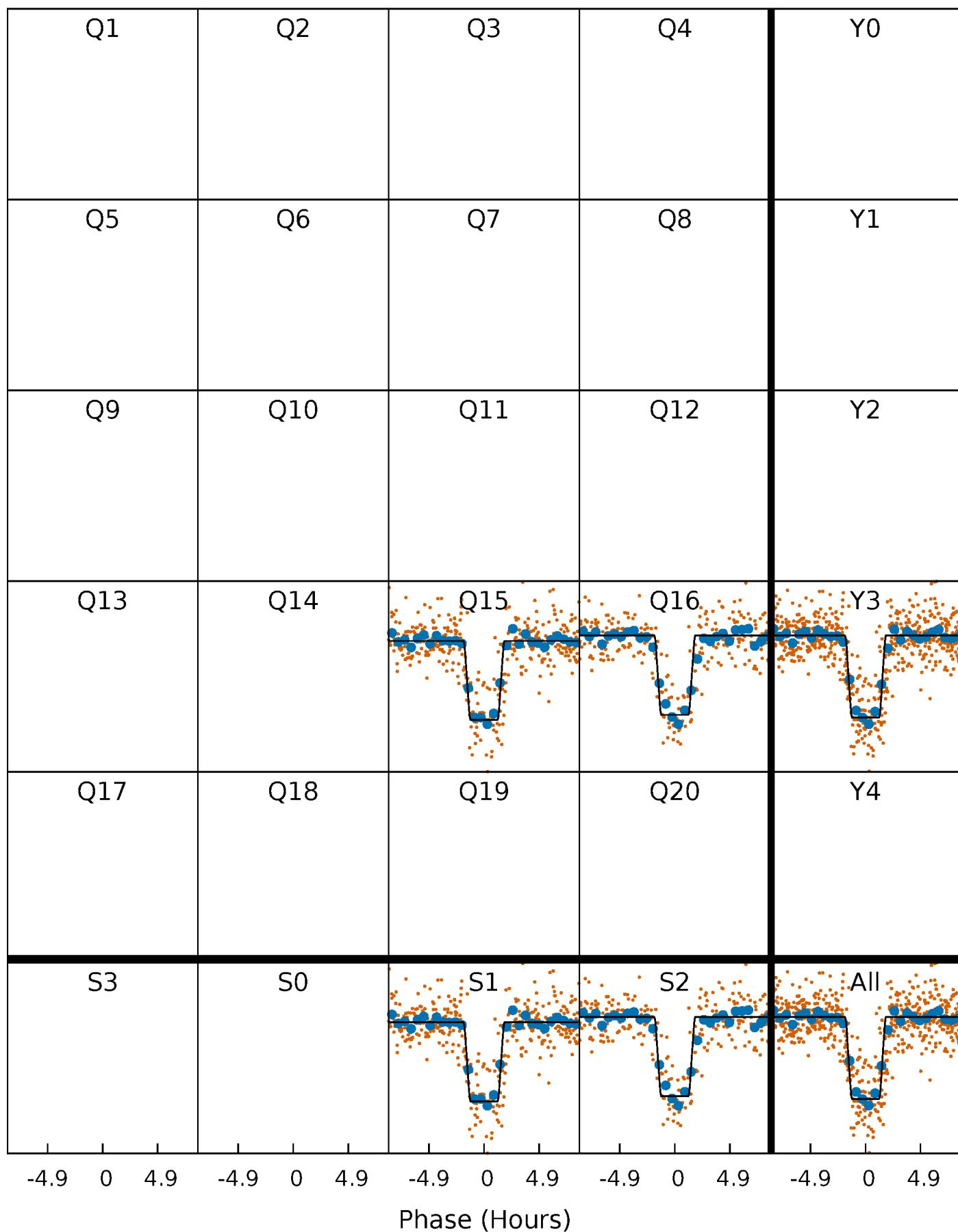
DV Quarter-Phased Transit Curves

TCE 005629353-02 P= 7.584452 Days $T_0=137.842060$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

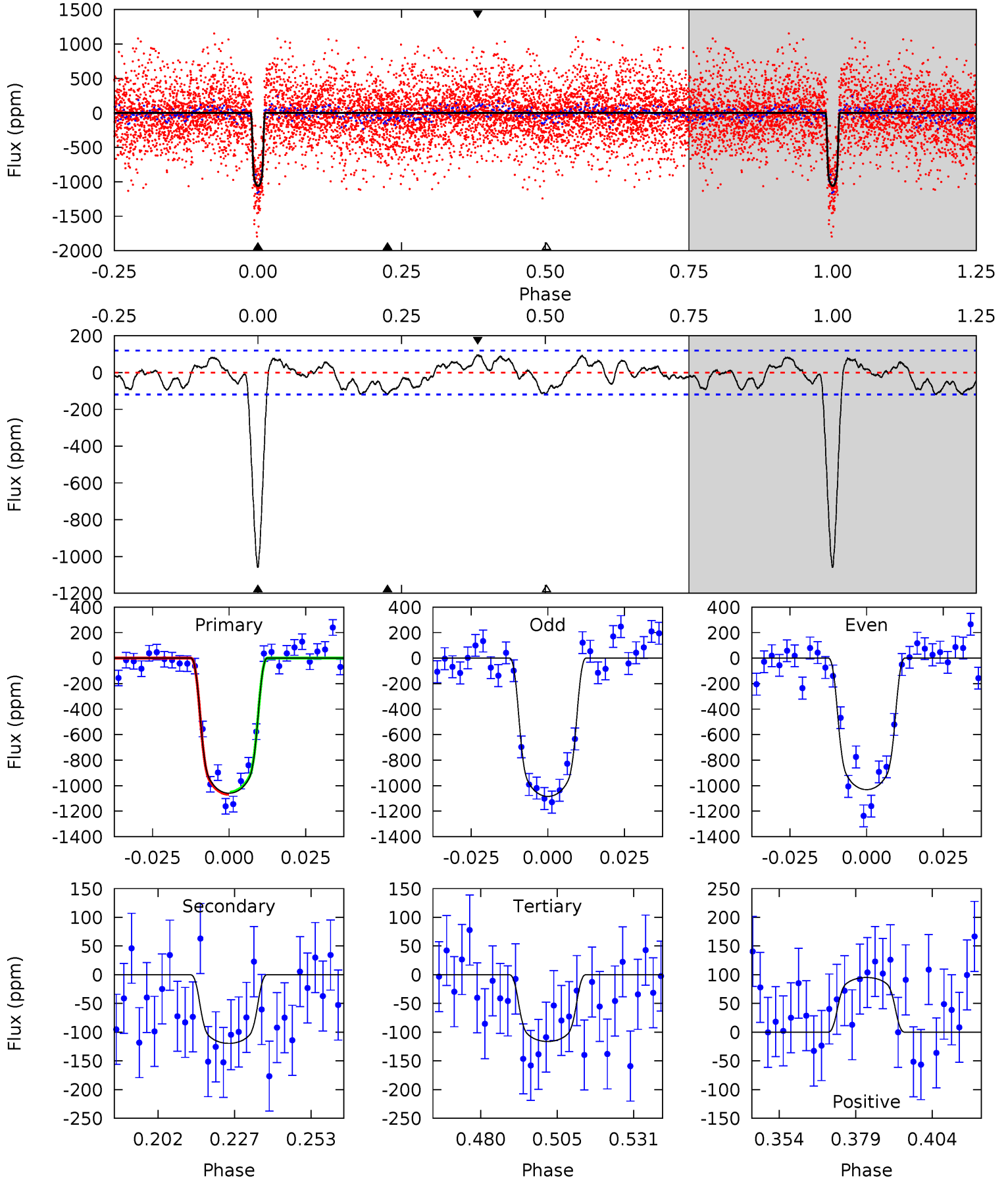
TCE 005629353-02 P= 7.584427 Days $T_0=137.840931$ (BKJD)



DV Model-Shift Uniqueness Test

005629353-02, P = 7.584452 Days, E = 137.842060 Days

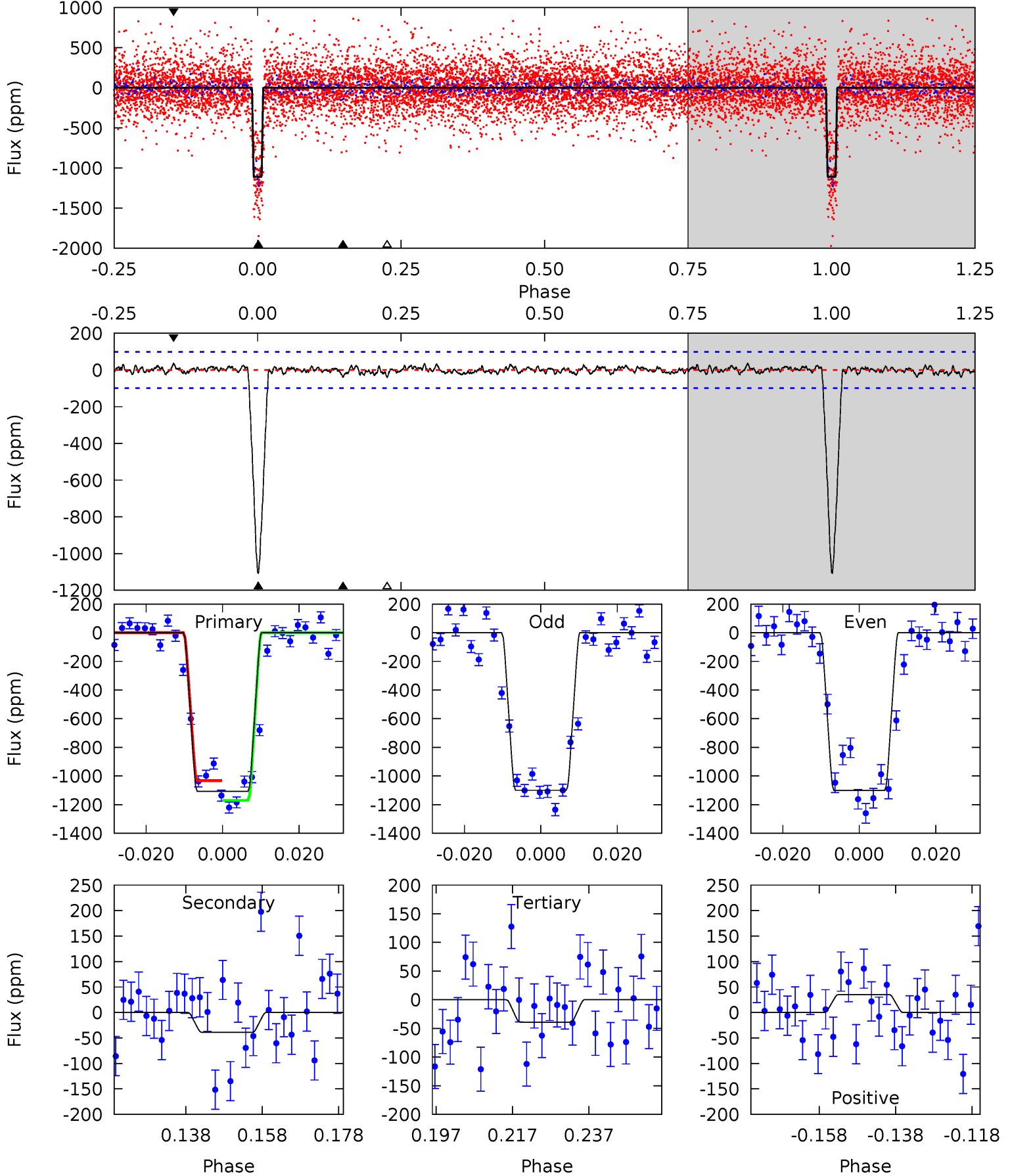
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
43.0	4.85	4.72	3.87	4.85	2.24	2.07	38.3	39.1	0.13	0.99	1.10	0.96	0.08	0.36



Alt Model-Shift Uniqueness Test

005629353-02, P = 7.584427 Days, E = 137.840931 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
54.8	1.93	1.93	1.74	4.89	2.33	0.62	52.8	53.0	0.00	0.19	0.02	0.95	0.03	3.43



Stellar Parameters For KIC 005629353

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6264^{+177}_{-265}	$4.133^{+0.200}_{-0.180}$	$0.260^{+0.150}_{-0.350}$	$1.651^{+0.502}_{-0.451}$	$1.352^{+0.189}_{-0.230}$	$0.423^{+0.509}_{-0.198}$
	+3%/-4%	+5%/-4%	+58%/-135%	+30%/-27%	+14%/-17%	+120%/-47%
Source	KIC0	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 005629353-02 / KOI 6132.02

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-120 ± 25	$6.37^{+1.08}_{-0.95}$	1706^{+142}_{-128}	3807^{+190}_{-178}	11^{+5}_{-4}
Alt.	-39 ± 20	$5.97^{+1.05}_{-0.86}$	1703^{+145}_{-124}	3224^{+256}_{-353}	$4.083^{+2.895}_{-2.211}$

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

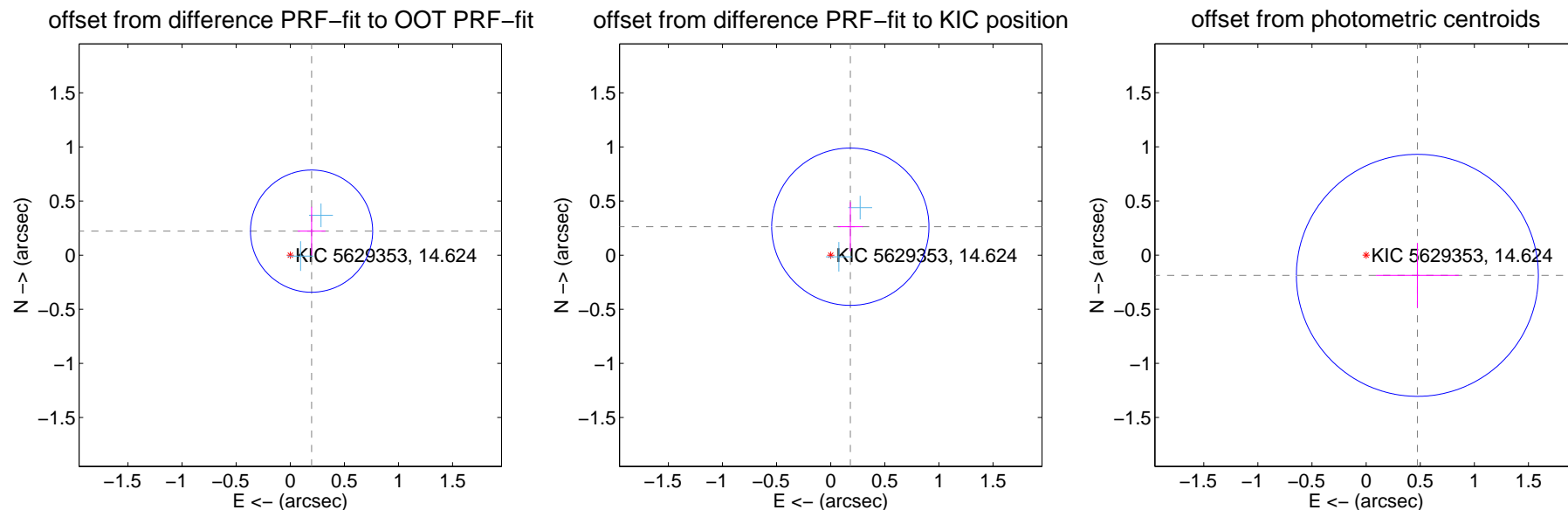
DV Centroid Data

Supplemental centroid analysis for 005629353-02. Kepler magnitude: 14.62. Transit SNR 24.32

There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.297 ± 0.188	1.58	-0.197 ± 0.128	0.222 ± 0.225
PRF-fit source offset from KIC position	0.319 ± 0.242	1.32	-0.181 ± 0.116	0.263 ± 0.228
photometric centroid source offset	0.51 ± 0.37	1.37	-0.47 ± 0.38	-0.19 ± 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.



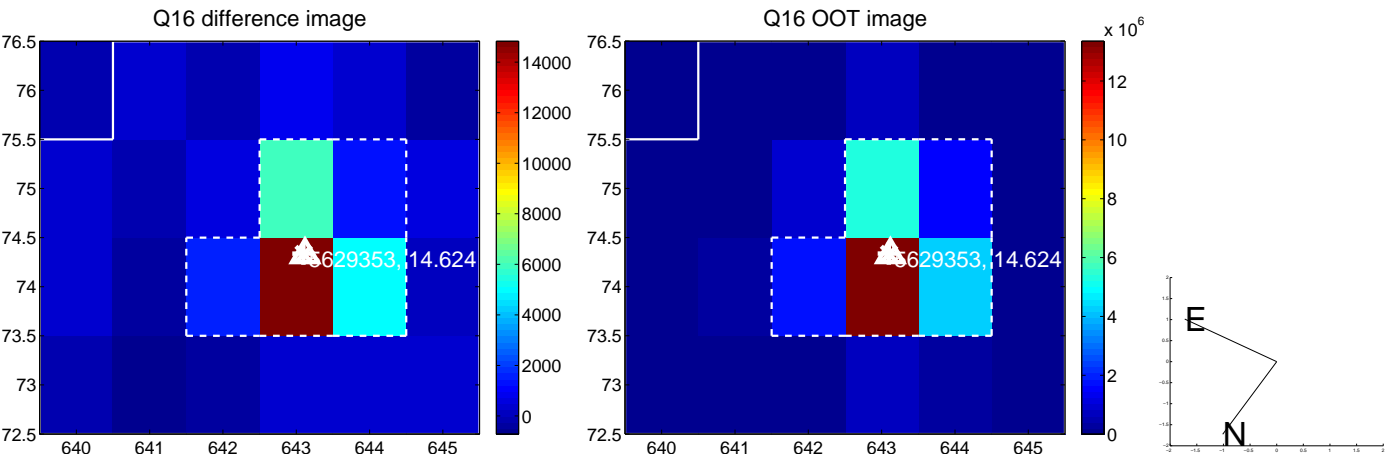
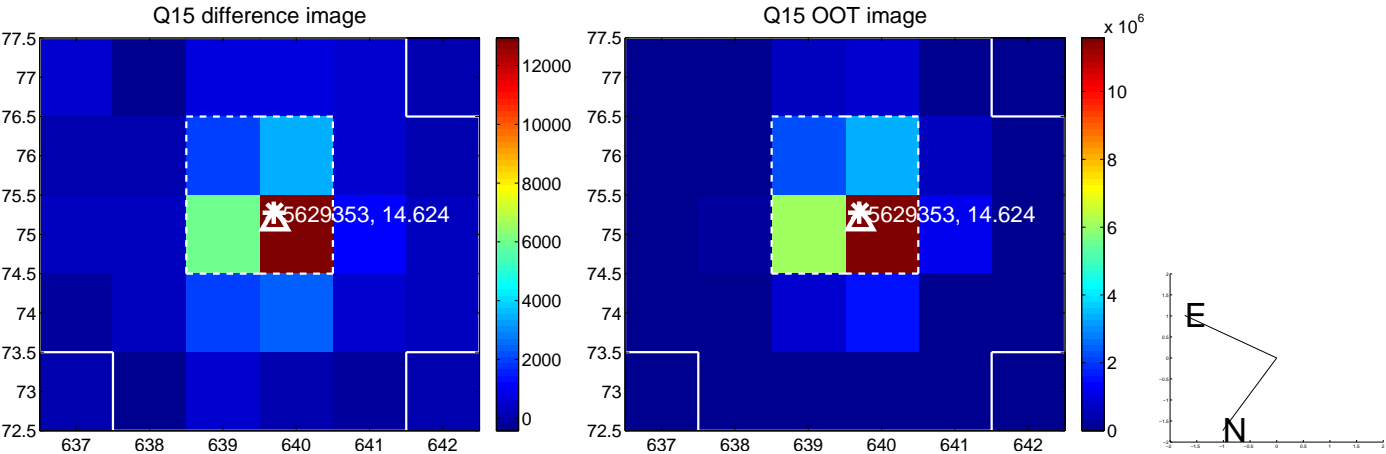
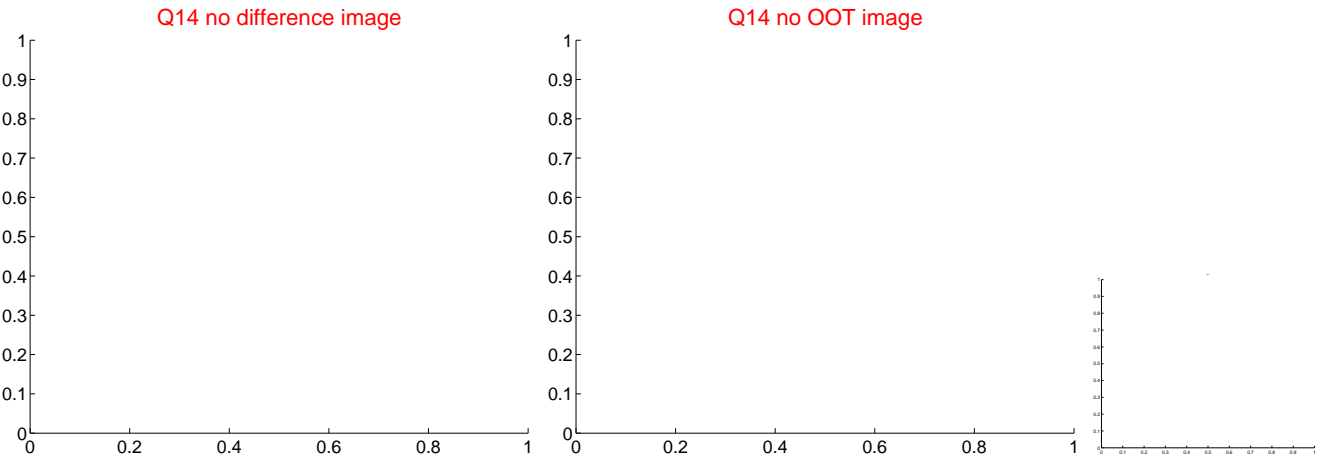
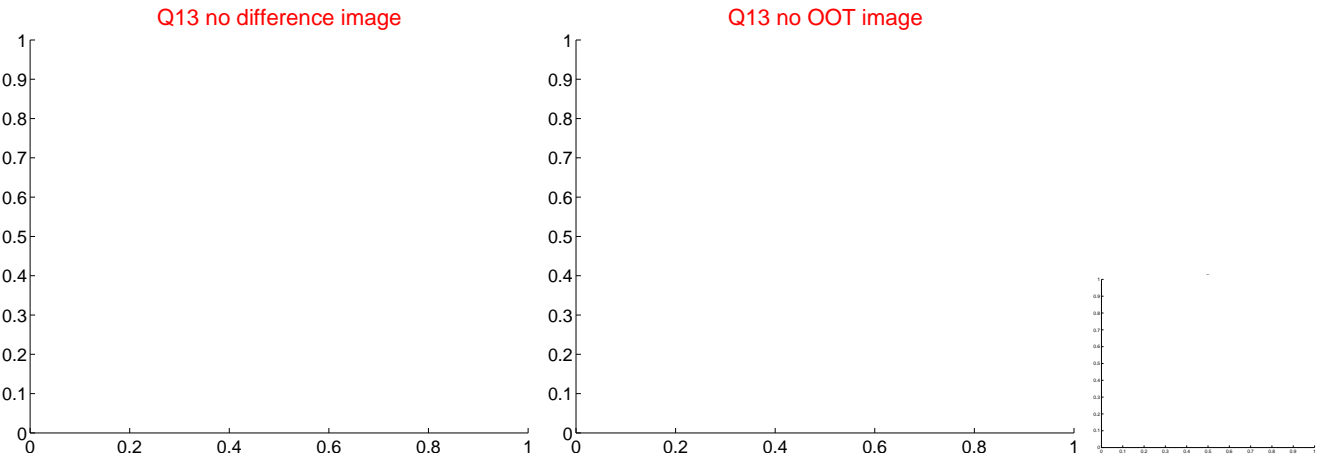
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



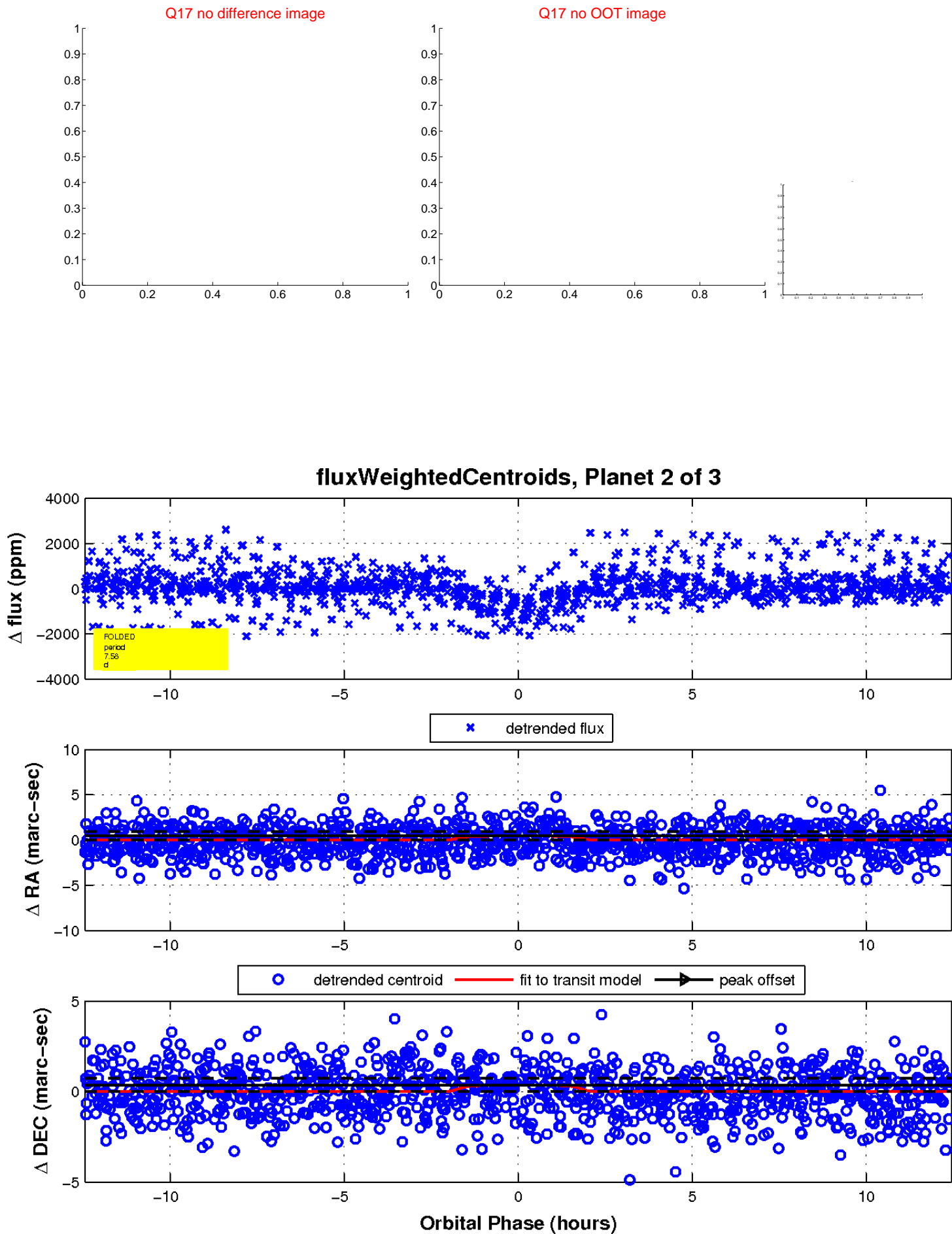
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

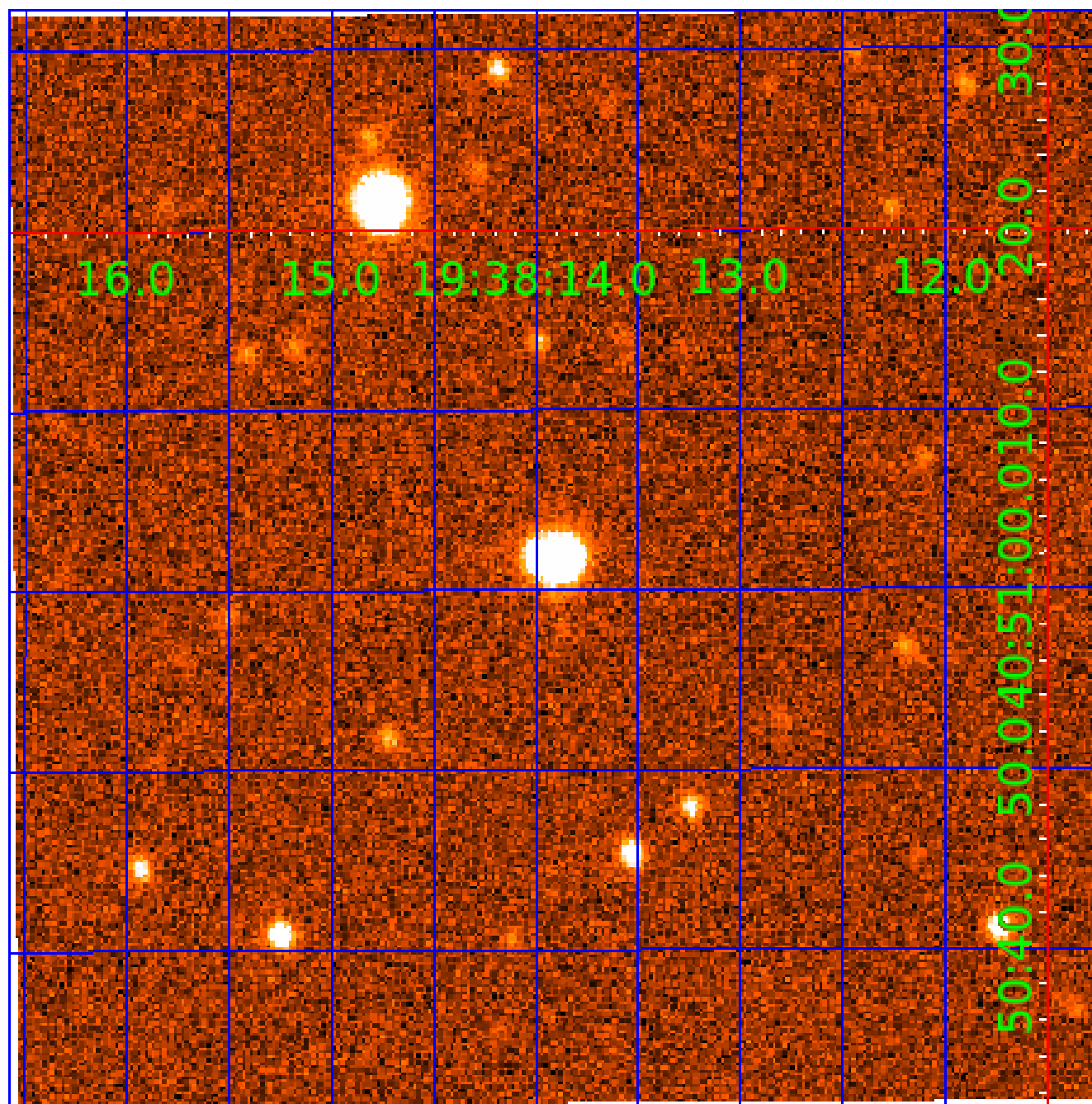


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005629353

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})
005629353-01	OBS	6132.01	33.318756	150.101256	6283.4	6.710	59.2	57.8	1.65	6264	13.31	74.91
005629353-02	OBS	6132.02	7.584452	137.842060	1081.7	4.150	22.2	24.3	1.65	6264	6.34	538.97
005629353-03	OBS	6132.03	11.866839	143.024463	653.7	4.882	12.1	12.3	1.65	6264	4.72	296.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005629353-01	OBS	PC	1.00	0	0	0	0	CENT_FEW_DIFFS
005629353-02	OBS	PC	1.00	0	0	0	0	CENT_FEW_DIFFS
005629353-03	OBS	PC	1.00	0	0	0	0	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.

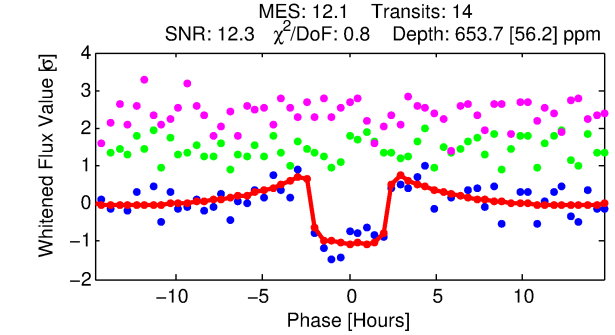
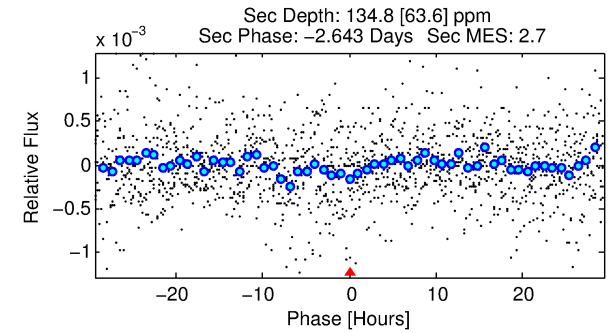
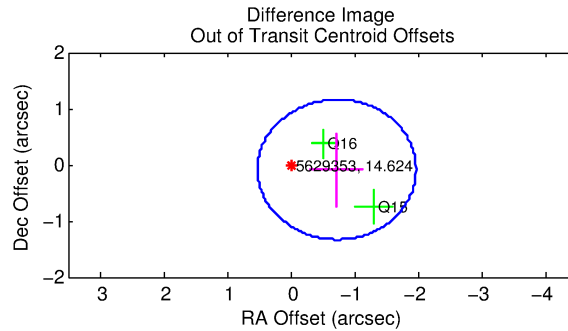
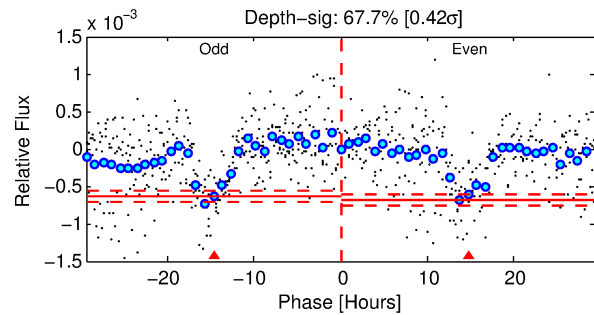
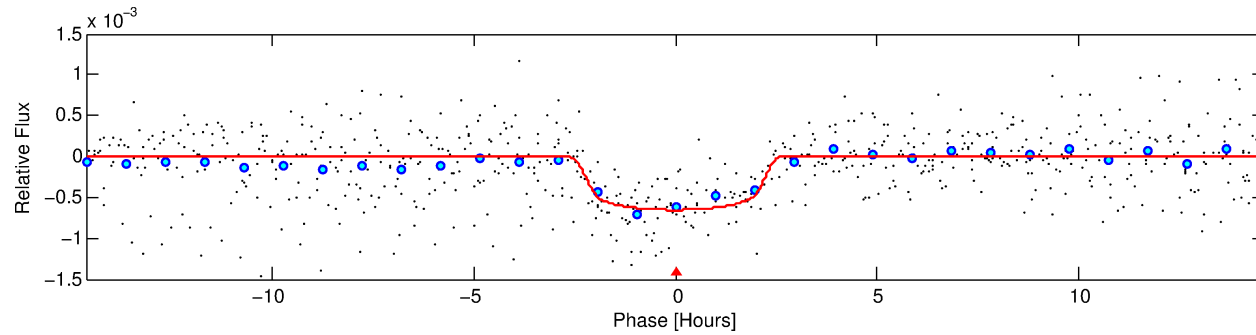
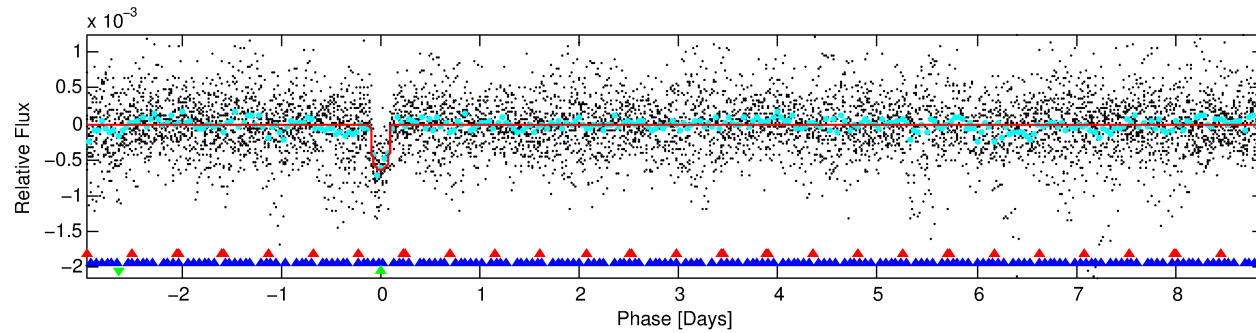
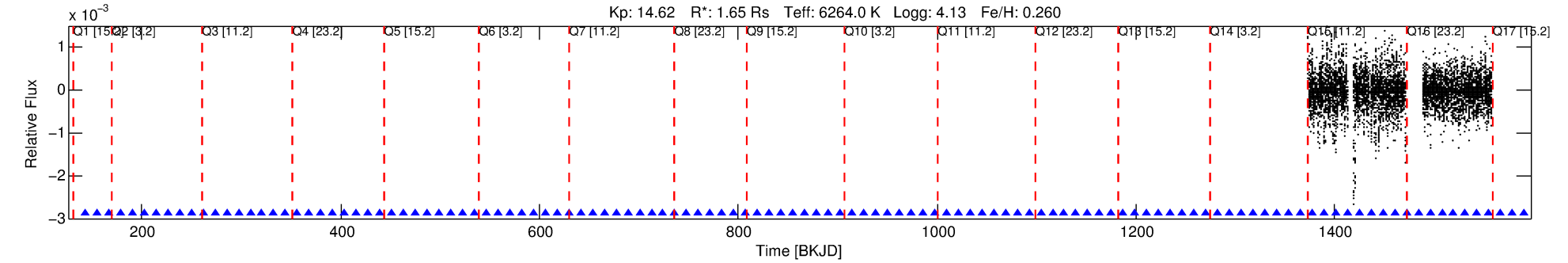
Ephemeris Match Information For 005629353-03

No Significant Match Found

DV One-Page Summary

KIC: 5629353 Candidate: 3 of 3 Period: 11.867 d

KOI: K06132.03 Corr: 0.828



DV Fit Results:

Period = 11.86684 [0.00012] d
Epoch = 143.0245 [0.0123] BKJD
Rp/R* = 0.0262 [0.0062]
a/R* = 11.49 [13.32]
b = 0.82 [0.47]
Seff = 296.72 [120.16]
Teff = 1058 [107] K
Rp = 4.72 [1.81] Re
a = 0.1126 [0.0286] AU
Ag = 42.26 [32.16] [1.28σ]
Teffp = 4172 [717] K [4.29σ]

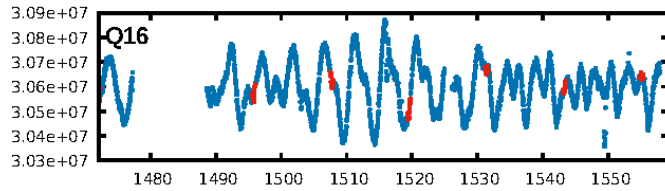
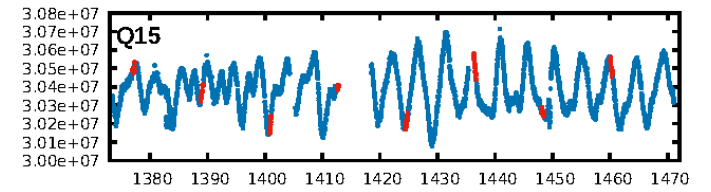
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [16.04σ]
LongPeriod-sig: 100.0% [62.04σ]
ModelChiSquare2-sig: 86.8%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.33e-33
RollingBand-fgt: 1.00 [14/14]
GhostDiagnostic-chr: 1.902
Centroid-sig: 5.1%
Centroid-so: 0.700 arcsec [1.30σ]
OotOffset-rm: 0.732 arcsec [1.76σ]
KicOffset-rm: 0.707 arcsec [1.70σ]
OotOffset-st: 0/1/1/0 [2]
KicOffset-st: 0/1/1/0 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [2/2]

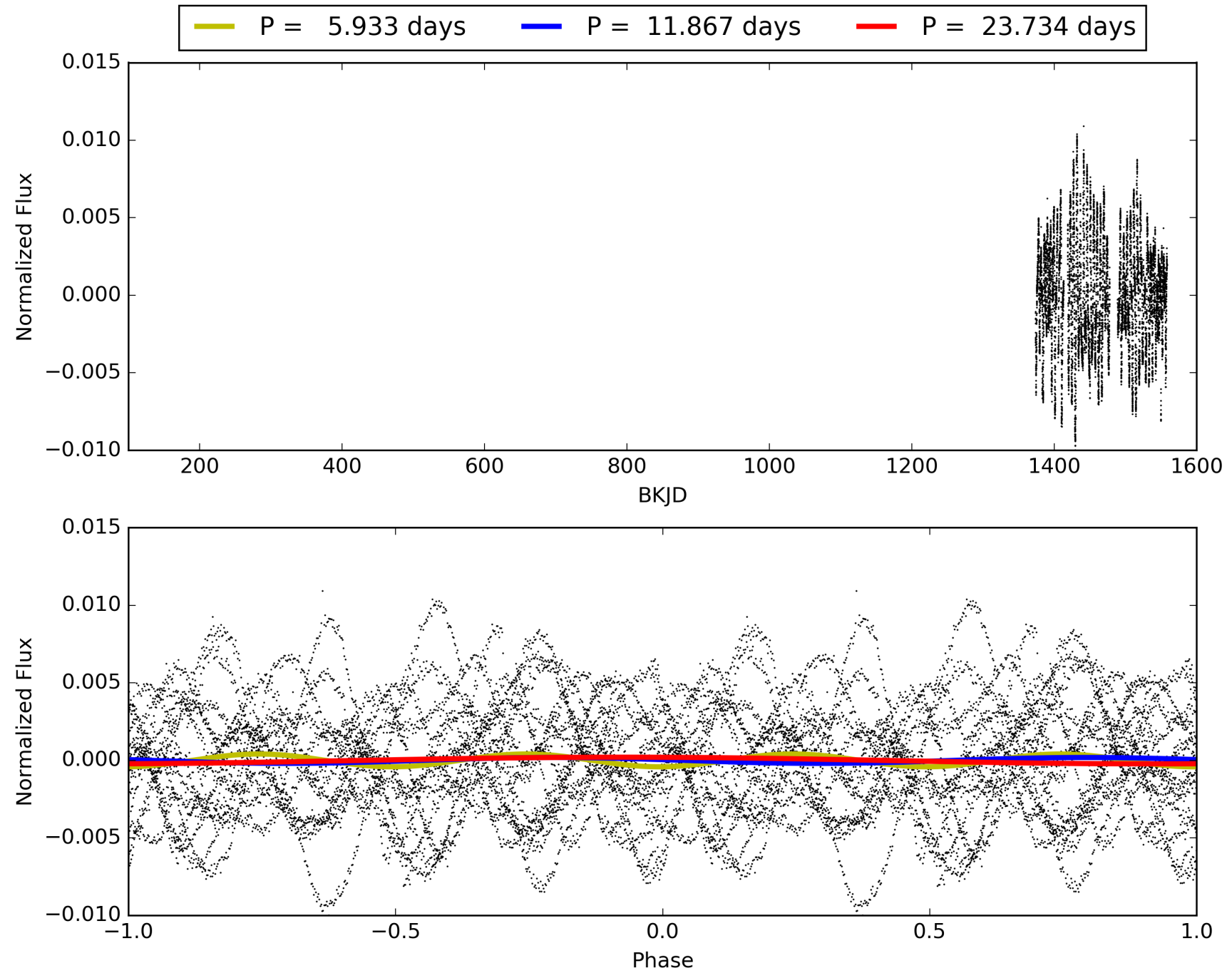
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 04:25:28 Z

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

TCE 005629353-03, PDC Light Curves

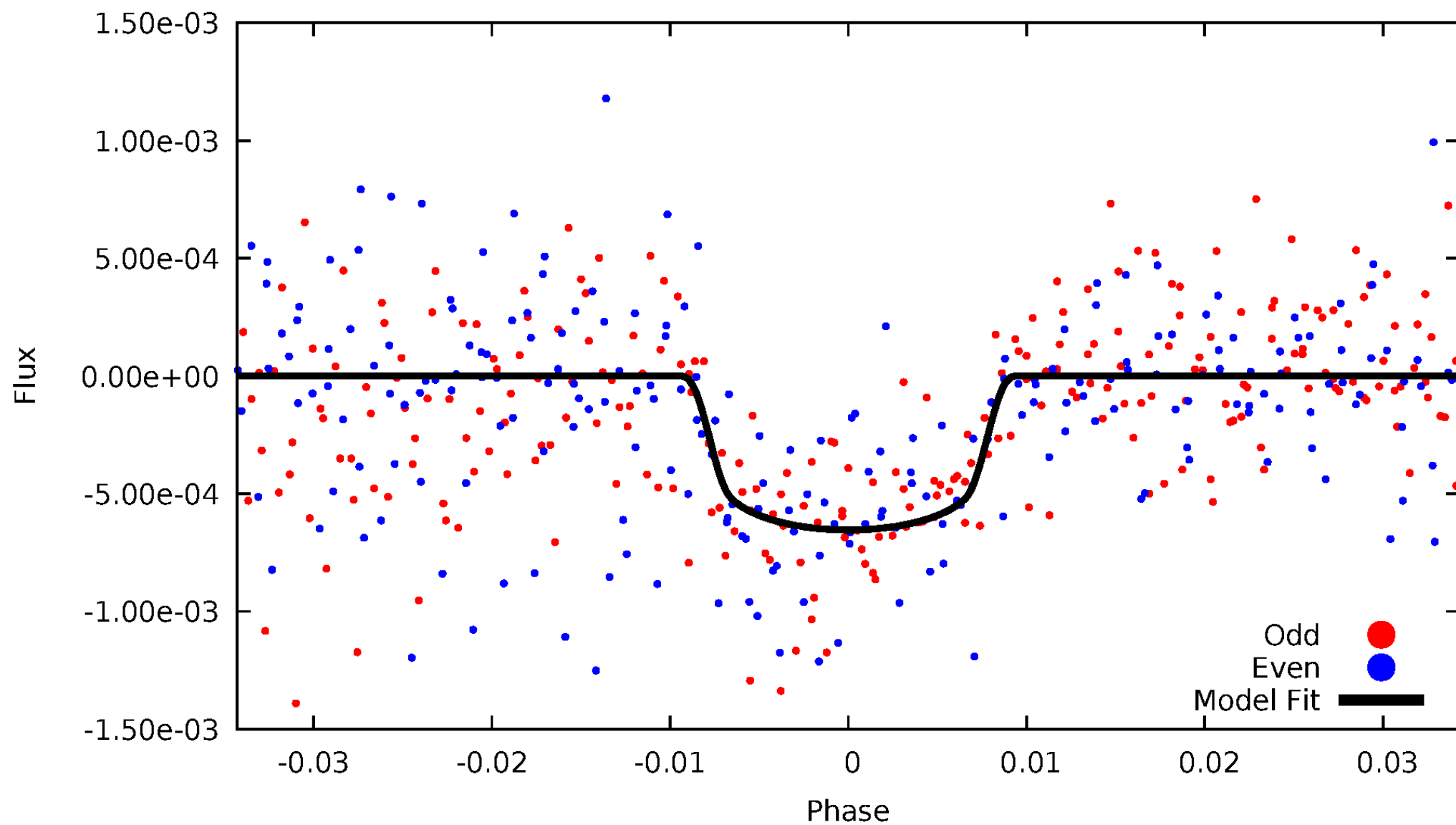


TCE 005629353-03



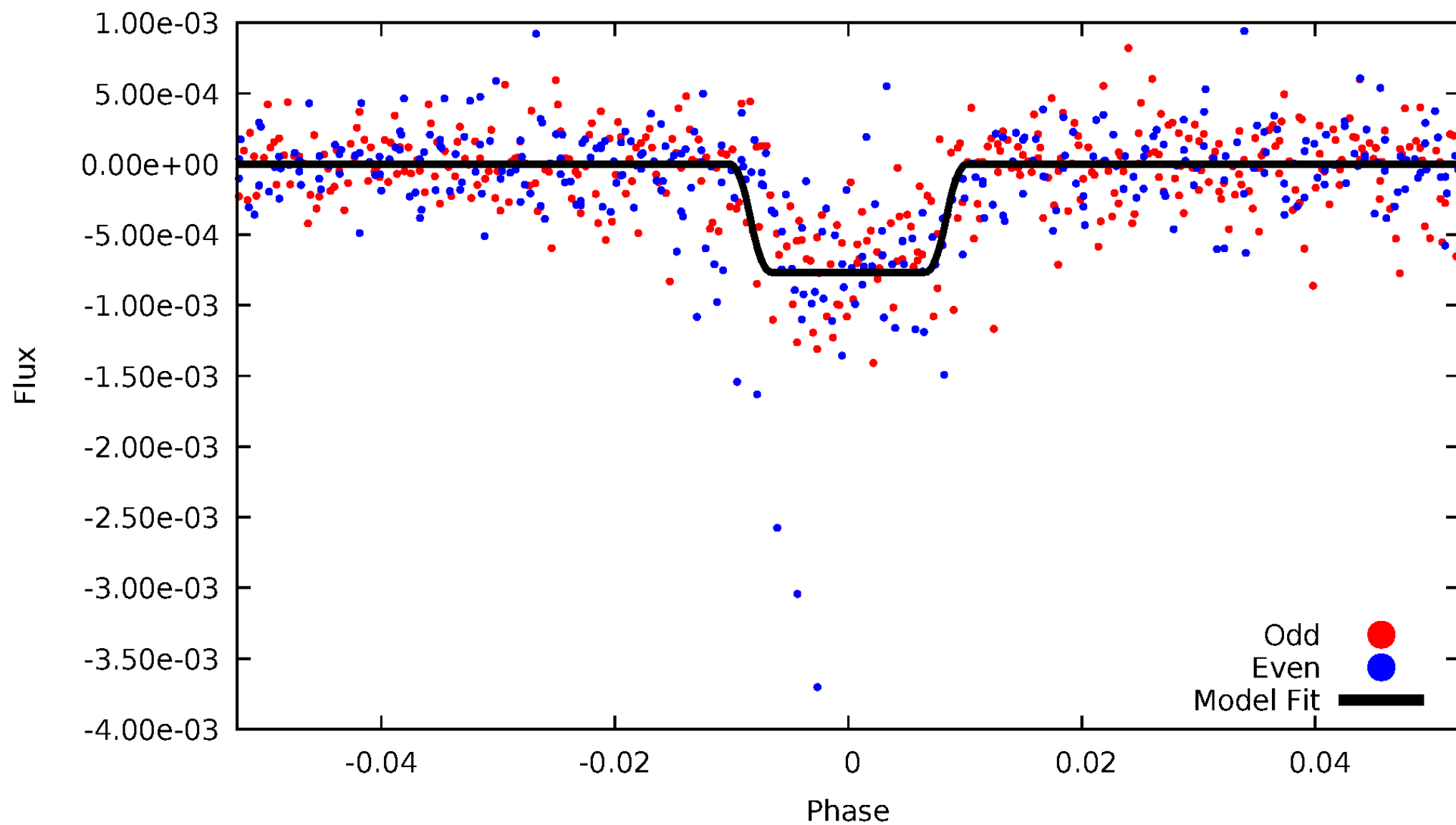
DV Odd/Even

TCE 005629353-03

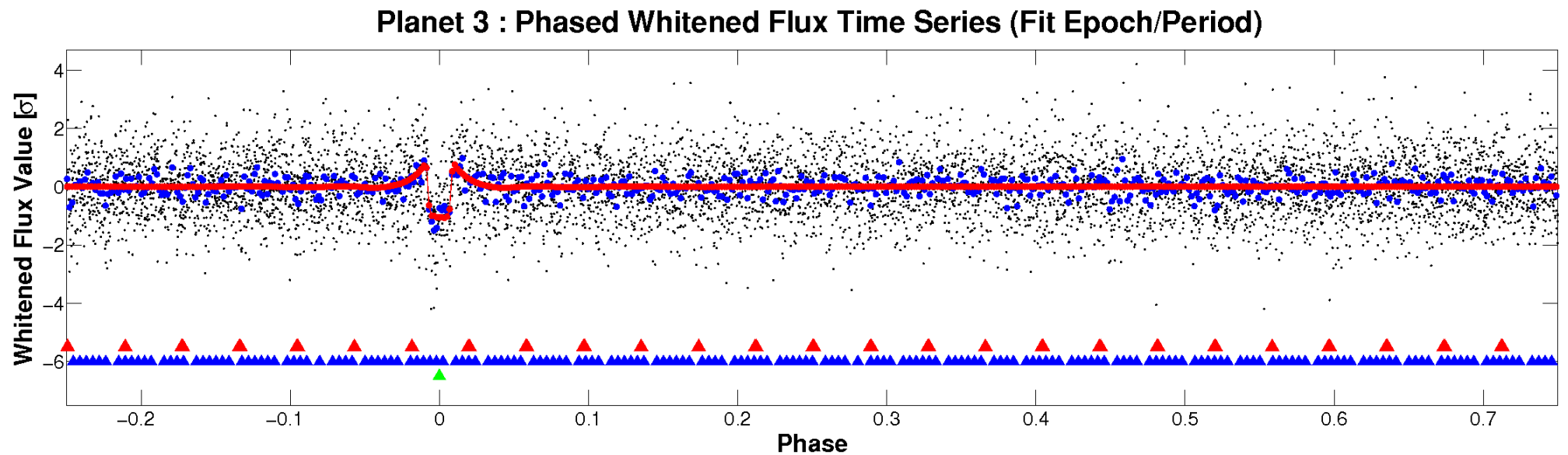
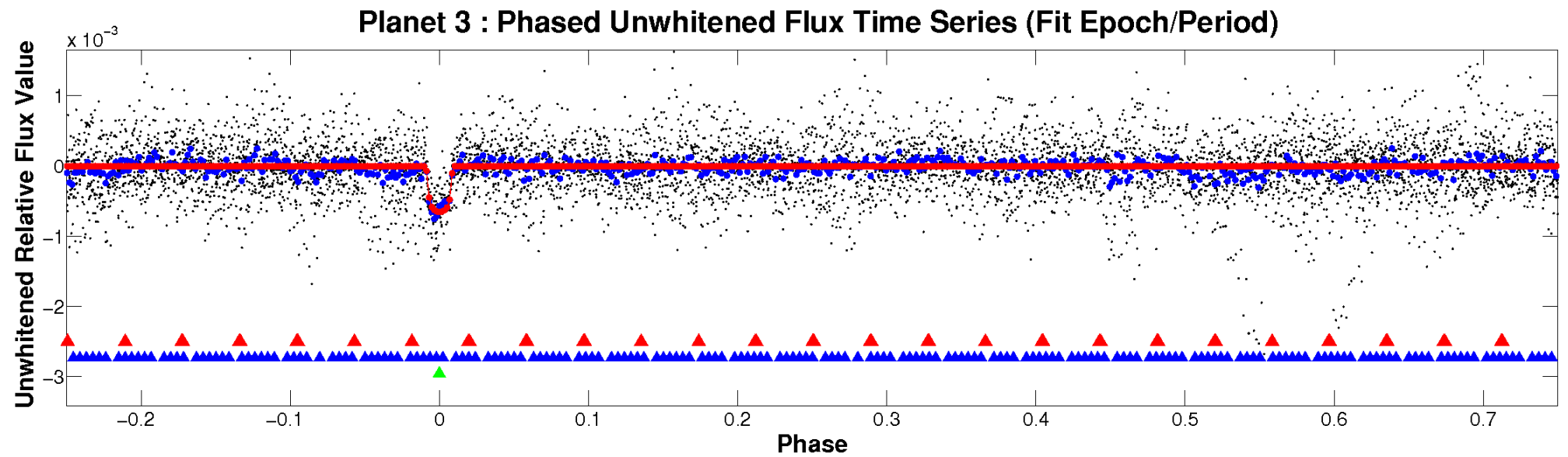


ALT Odd/Even

TCE 005629353-03

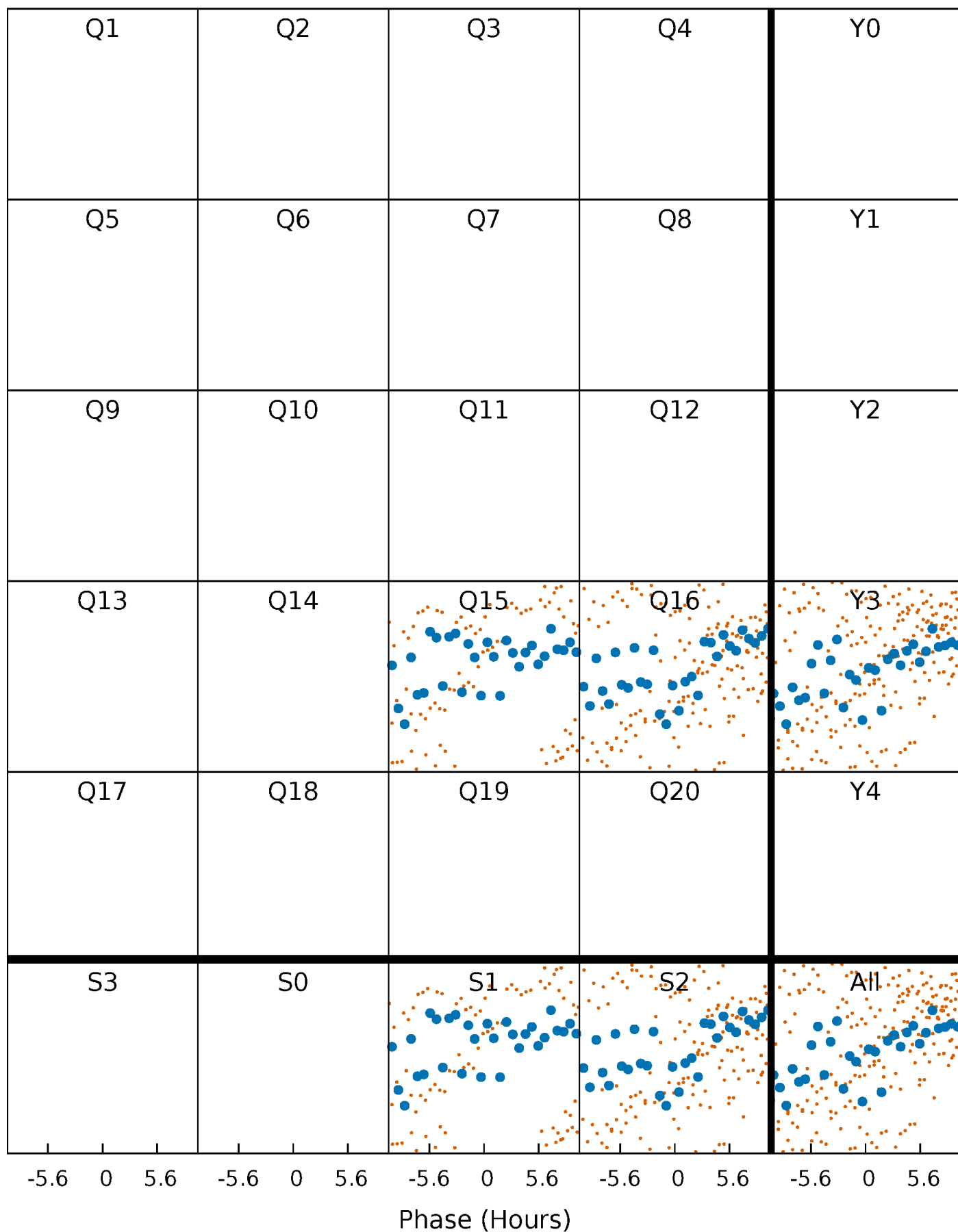


Non-Whitened Vs. Whitened Light Curve



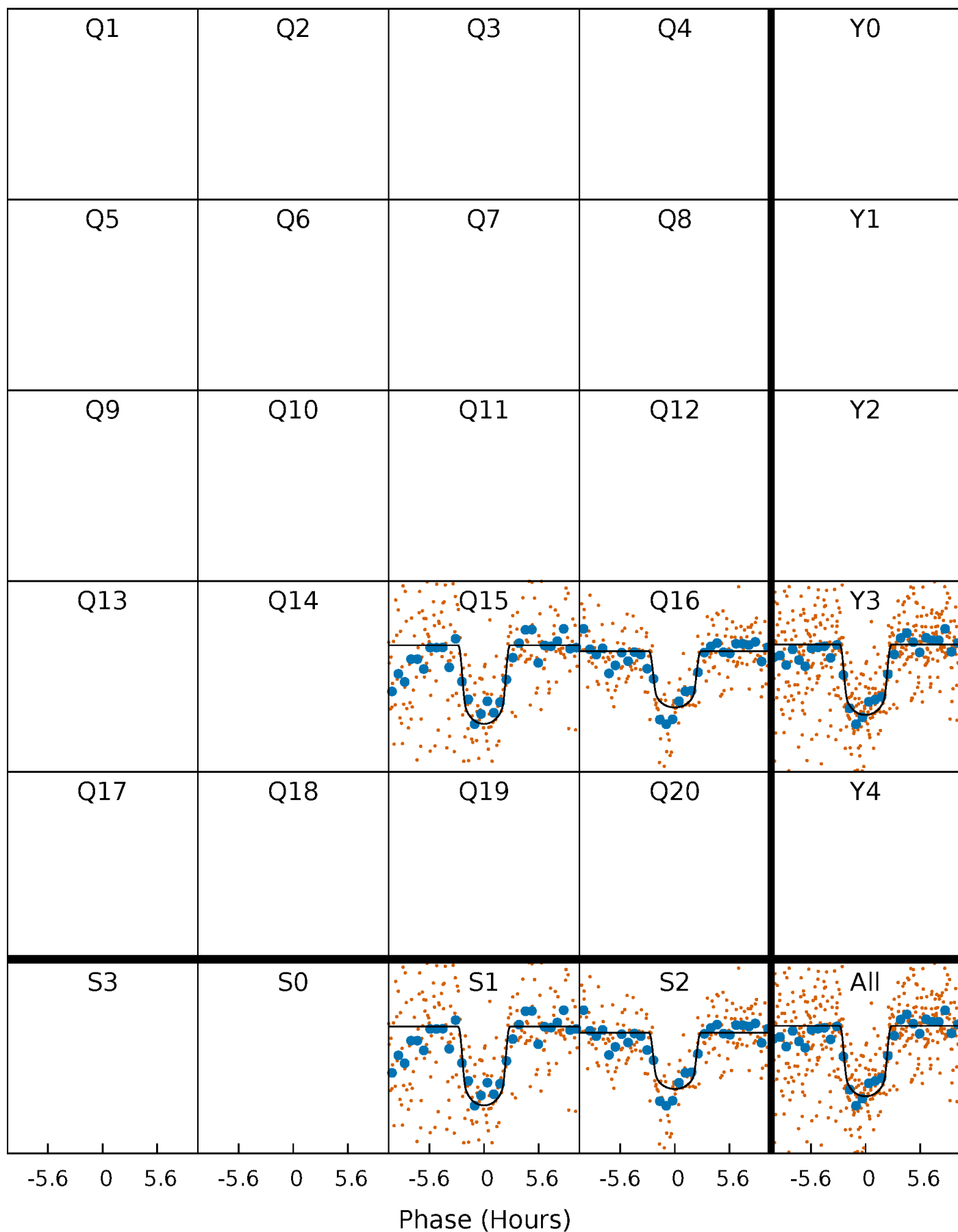
PDC Quarter-Phased Transit Curves

TCE 005629353-03 P= 11.866839 Days $T_0=143.024463$ (BKJD)



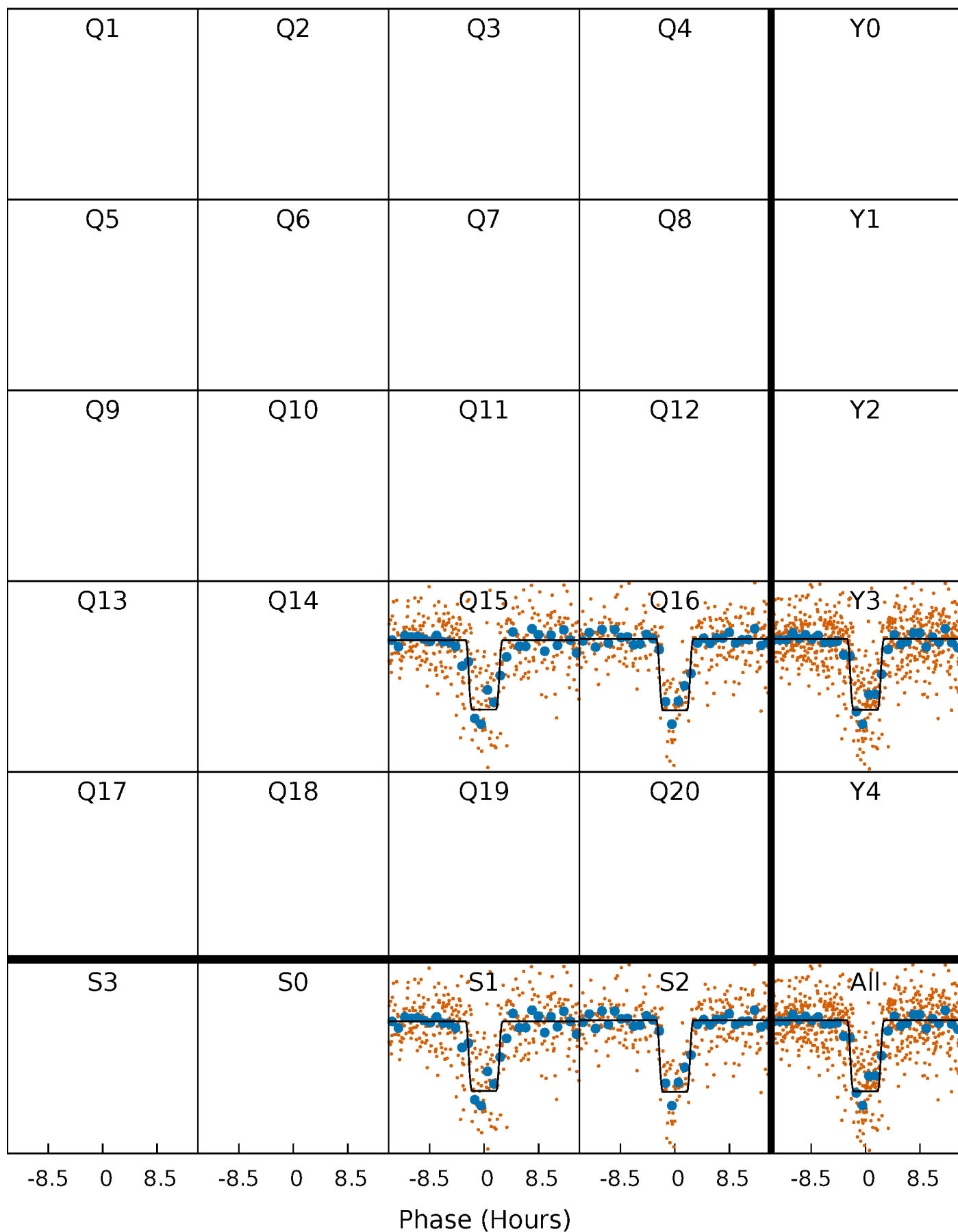
DV Quarter-Phased Transit Curves

TCE 005629353-03 P= 11.866839 Days $T_0=143.024463$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

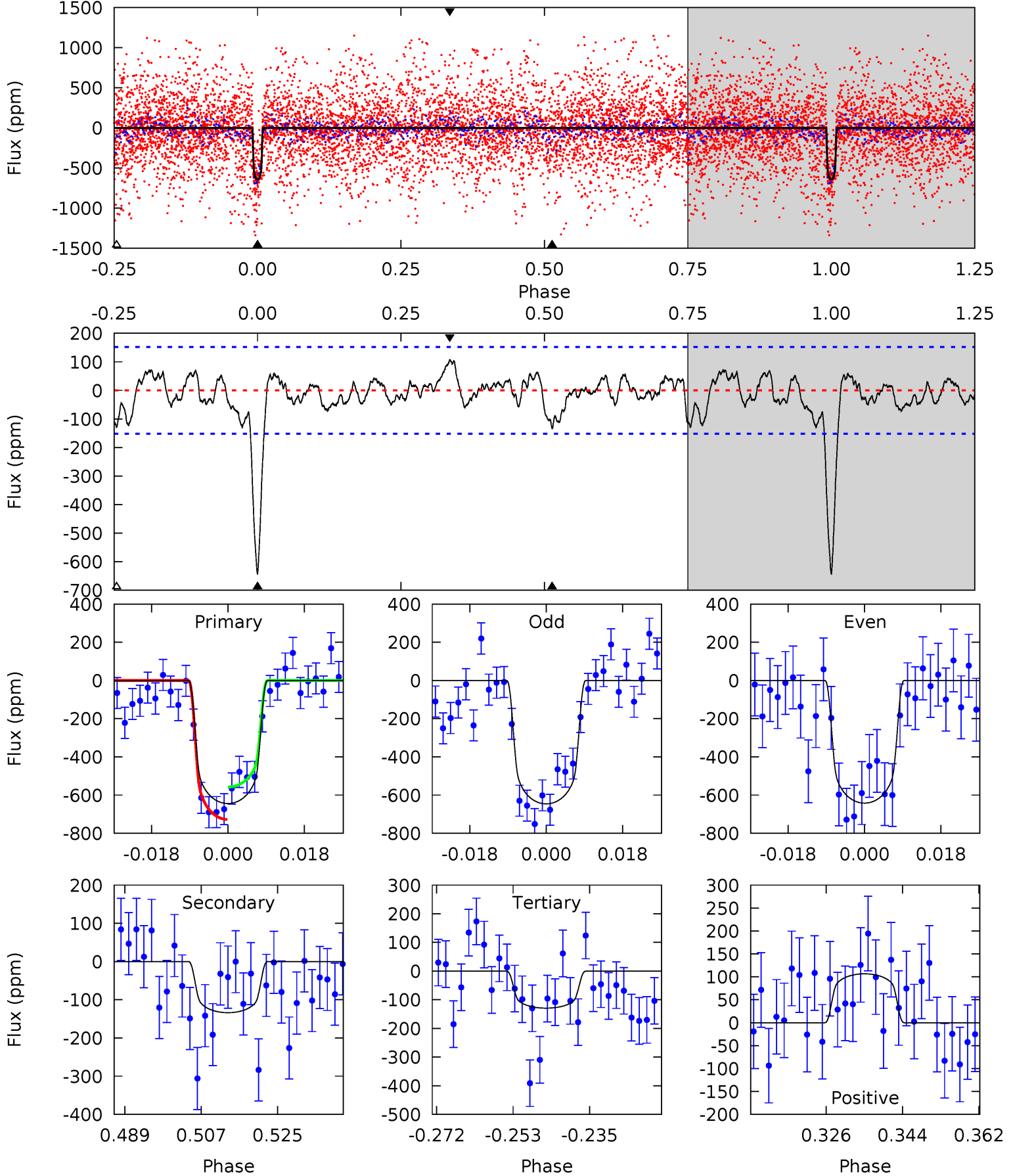
TCE 005629353-03 P= 11.866929 Days $T_0=143.000981$ (BKJD)



DV Model-Shift Uniqueness Test

005629353-03, $P = 11.866839$ Days, $E = 143.024463$ Days

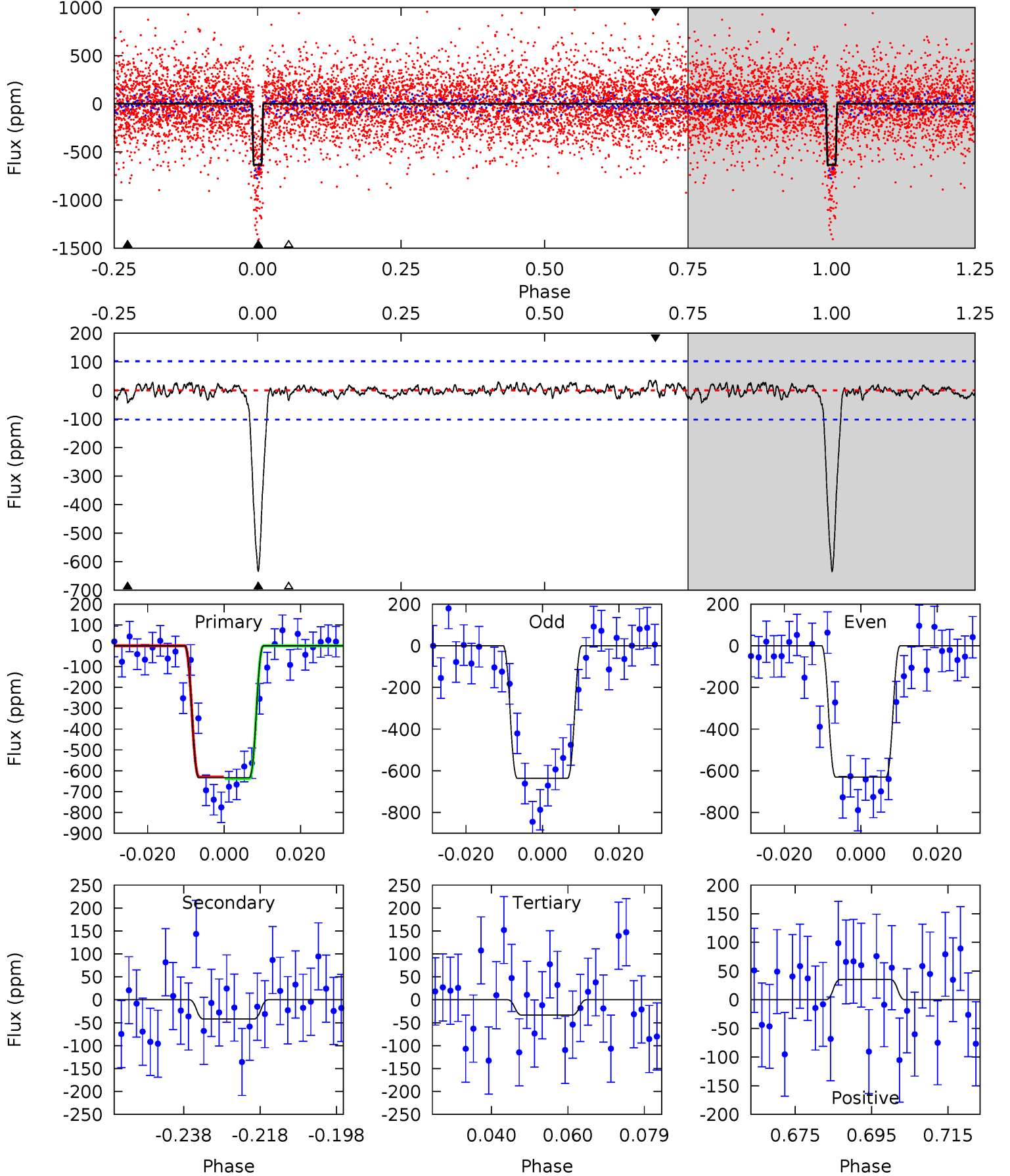
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.8	4.32	4.18	3.44	4.91	2.36	1.39	16.6	17.4	0.15	0.88	0.06	1.06	0.14	2.79



Alt Model-Shift Uniqueness Test

005629353-03, P = 11.866929 Days, E = 143.000981 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
30.3	2.01	1.61	1.69	4.89	2.33	0.62	28.7	28.6	0.40	0.32	0.14	1.23	0.05	0.20



Stellar Parameters For KIC 005629353

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6264^{+177}_{-265}	$4.133^{+0.200}_{-0.180}$	$0.260^{+0.150}_{-0.350}$	$1.651^{+0.502}_{-0.451}$	$1.352^{+0.189}_{-0.230}$	$0.423^{+0.509}_{-0.198}$
	+3%/-4%	+5%/-4%	+58%/-135%	+30%/-27%	+14%/-17%	+120%/-47%
Source	KIC0	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 005629353-03 / KOI 6132.03

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-134 ± 31	$4.63^{+1.39}_{-1.22}$	1469^{+114}_{-112}	4354^{+541}_{-382}	43^{+37}_{-18}
Alt.	-42 ± 21	$4.90^{+1.48}_{-1.23}$	1472^{+124}_{-107}	3499^{+390}_{-417}	12^{+11}_{-7}

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 $A_{obs} \gg 1.0$

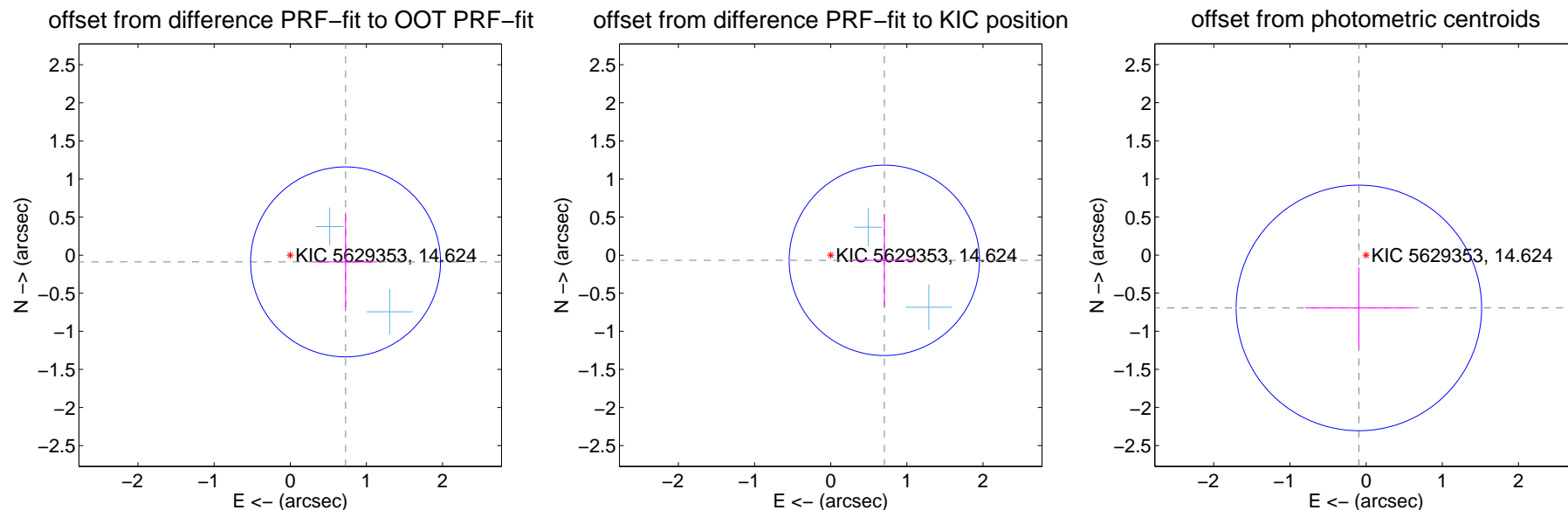
DV Centroid Data

Supplemental centroid analysis for 005629353-03. Kepler magnitude: 14.62. Transit SNR 12.29

There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.732 ± 0.416	1.76	-0.726 ± 0.411	-0.088 ± 0.648
PRF-fit source offset from KIC position	0.707 ± 0.417	1.70	-0.704 ± 0.414	-0.068 ± 0.608
photometric centroid source offset	0.70 ± 0.54	1.30	0.10 ± 0.71	-0.69 ± 0.53



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.



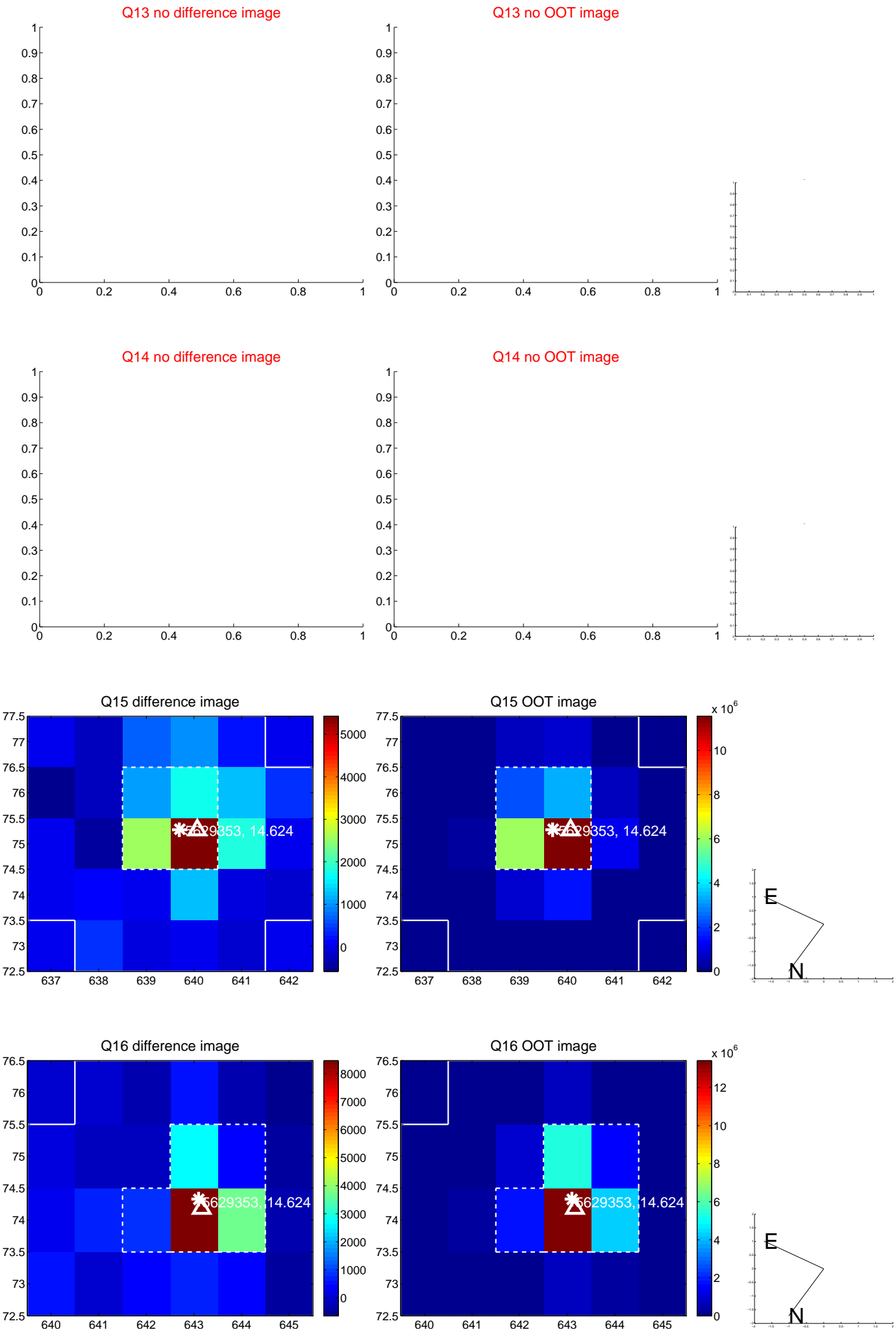
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



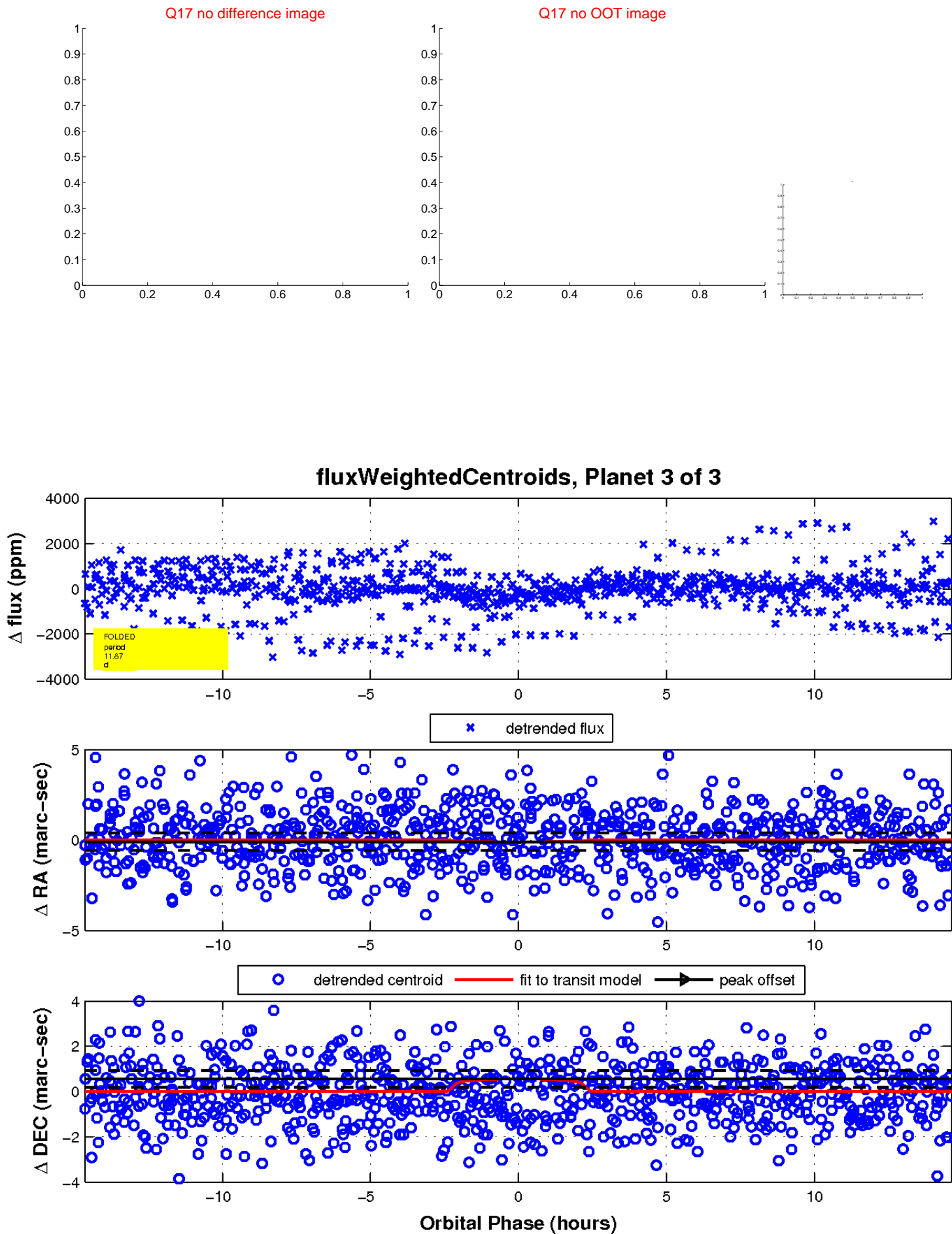
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

