

KIC 011260303

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})
011260303-01	OBS	No	414.100014	311.121120	130.1	15.980	12.5	12.0	2.85	10169	3.62	36.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011260303-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_SATURATED

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

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

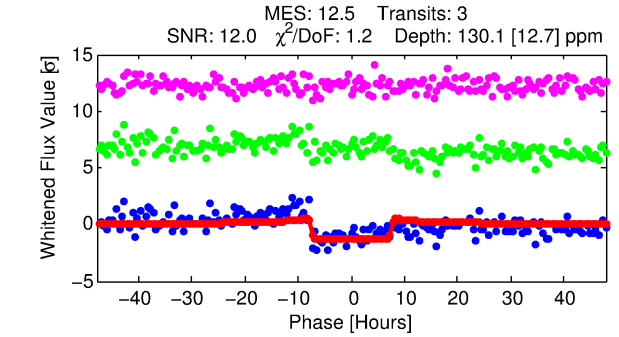
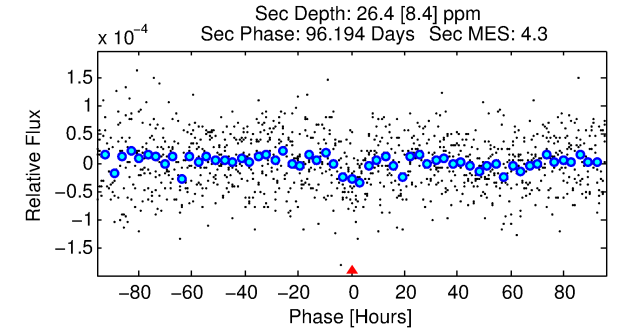
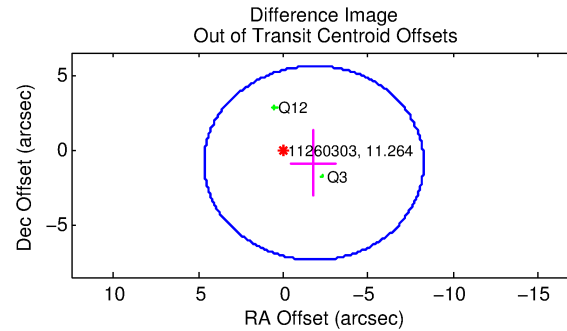
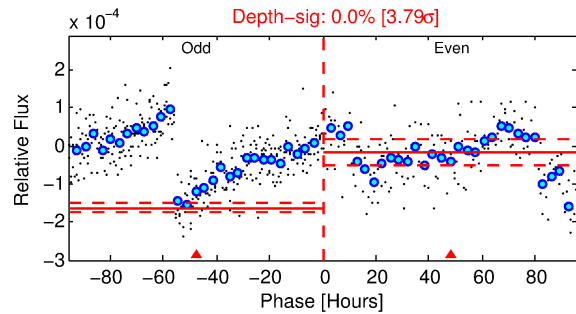
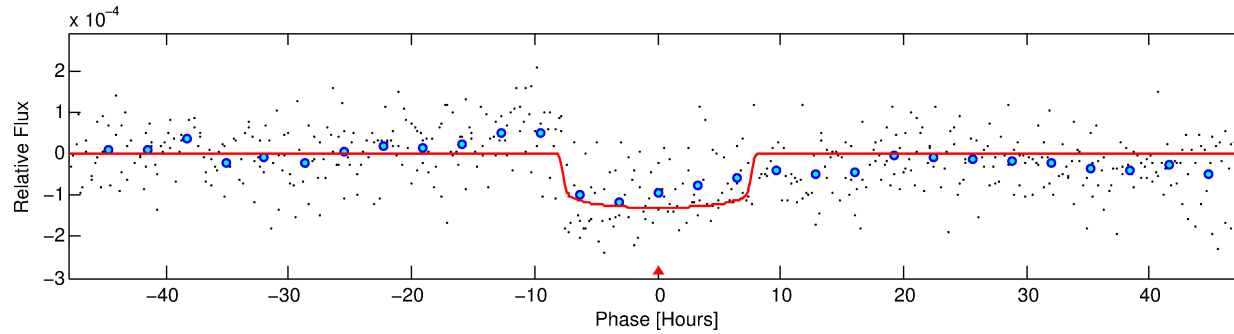
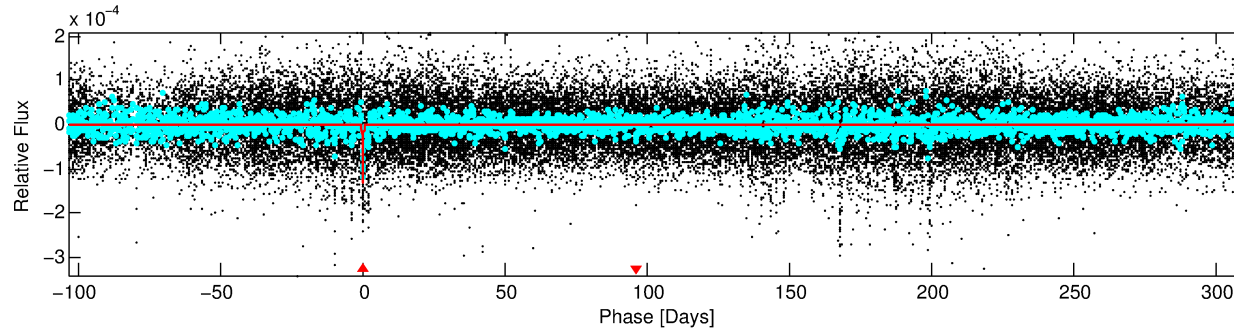
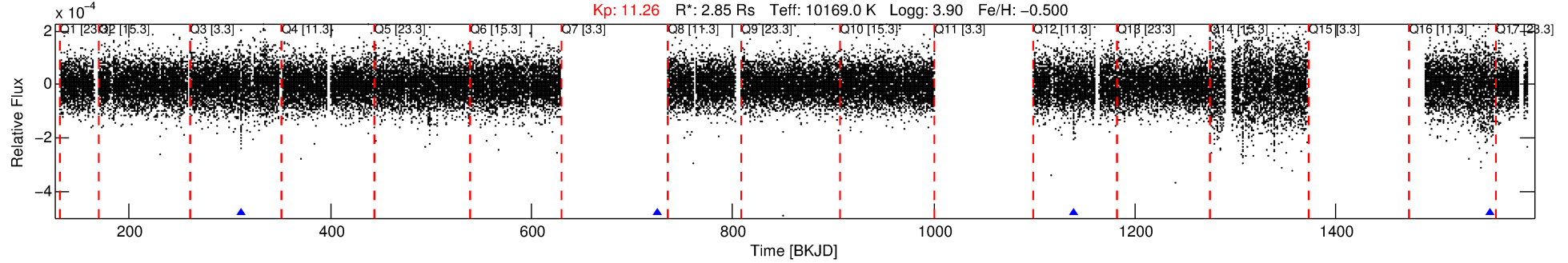
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011260303-01

No Significant Match Found

DV One-Page Summary

KIC: 11260303 Candidate: 1 of 1 Period: 414.100 d



DV Fit Results:

Period = 414.10001 [0.00595] d
Epoch = 311.1211 [0.0116] BKJD
Rp/R* = 0.0117 [0.0010]
a/R* = 110.13 [55.68]
b = 0.85 [0.17]
Seff = 36.98 [23.99]
Teq = 629 [102] K
Rp = 3.62 [1.65] Re
a = 1.4485 [0.5871] AU
Ag = 2319.86 [1670.63] [1.39 σ]
Teffp = 6747 [675] K [8.96 σ]

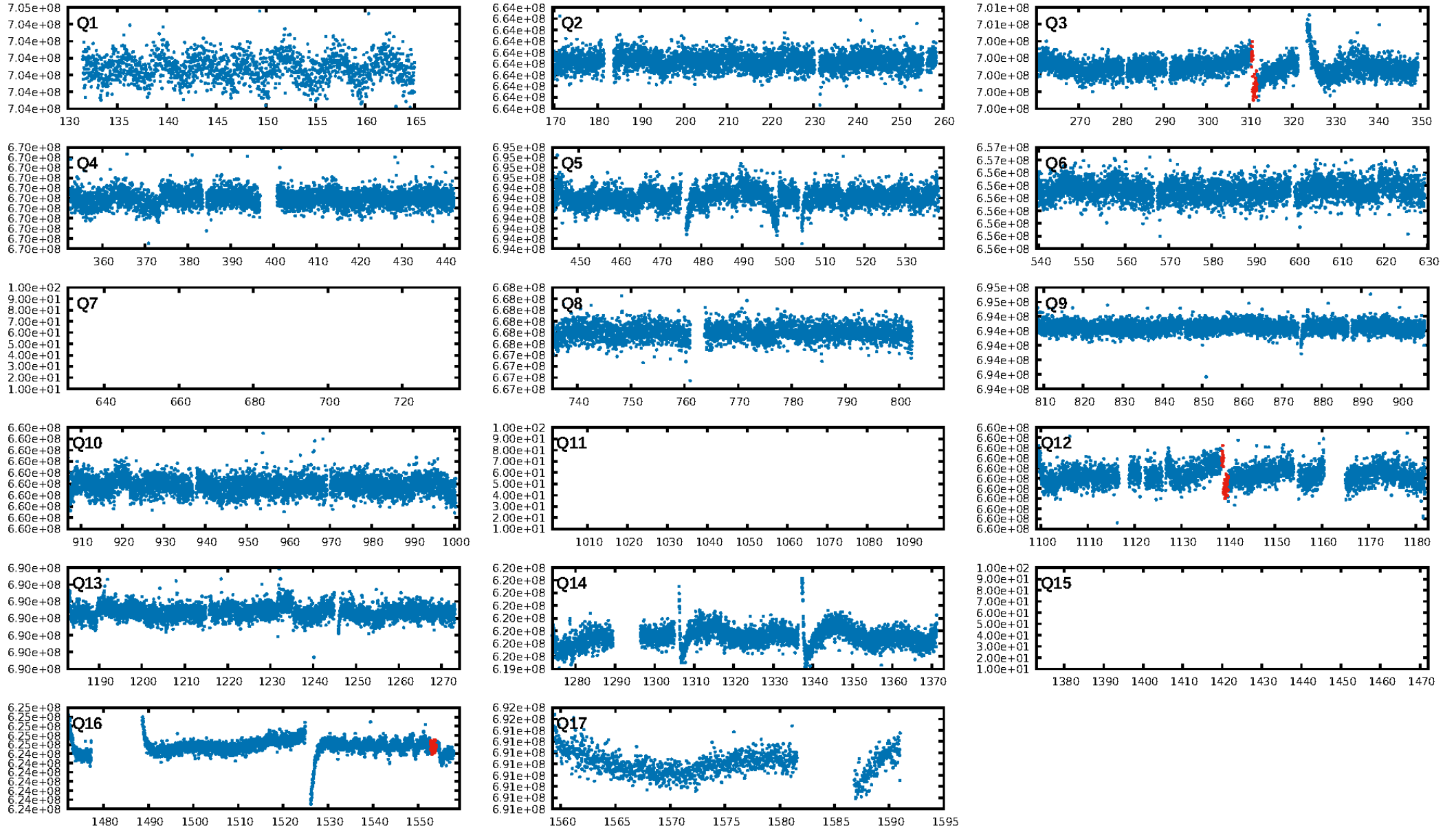
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 86.1%
Bootstrap-pfa: 8.32e-17
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -11.07
Centroid-sig: 1.4%
Centroid-so: 2.223 arcsec [1.90 σ]
OotOffset-rm: 2.024 arcsec [0.94 σ]
KicOffset-rm: 2.115 arcsec [0.96 σ]
OotOffset-st: 0/1/1/0 [2]
KicOffset-st: 0/1/1/0 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 1.00 [3/3]

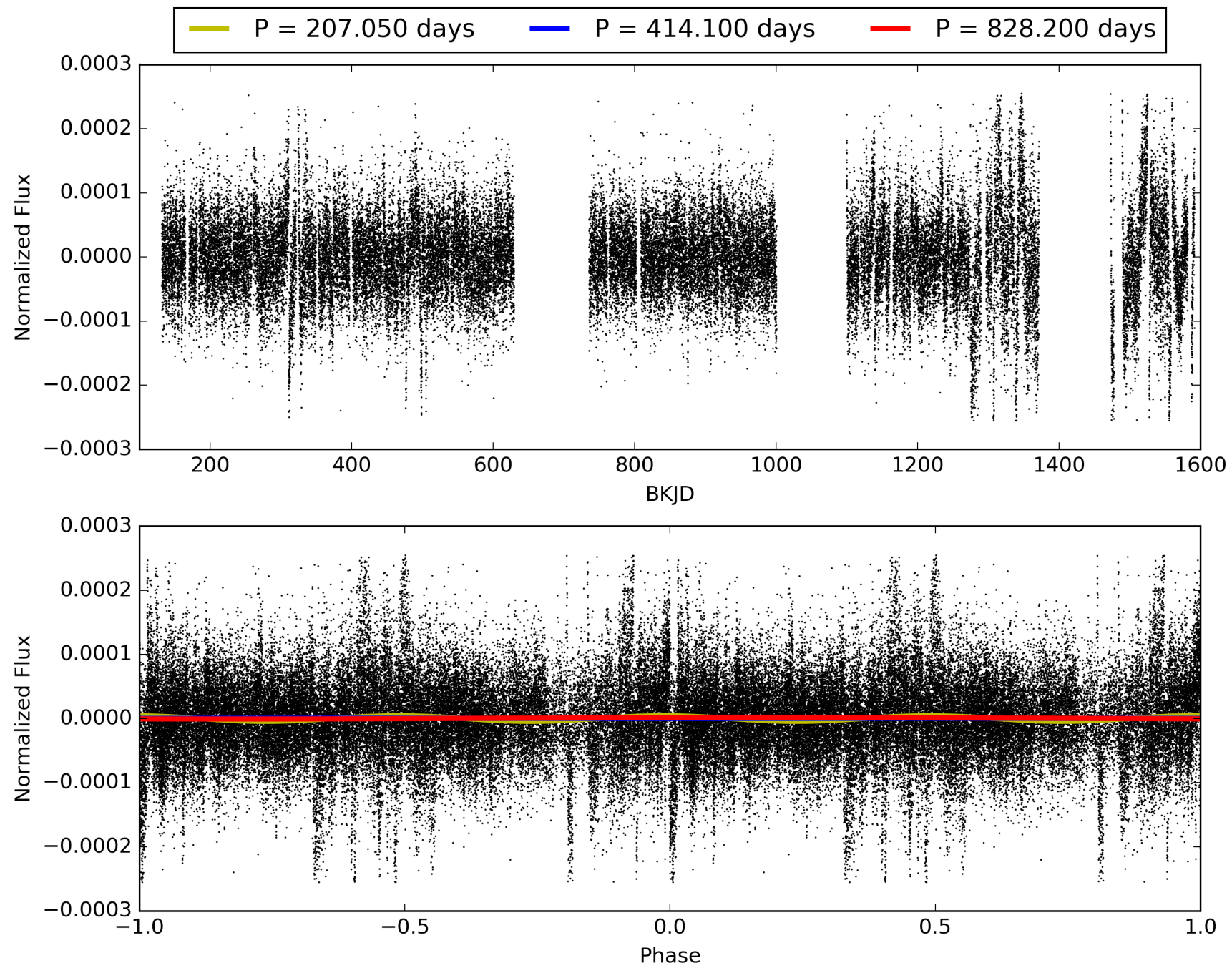
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 00:33:22 Z

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

TCE 011260303-01, PDC Light Curves

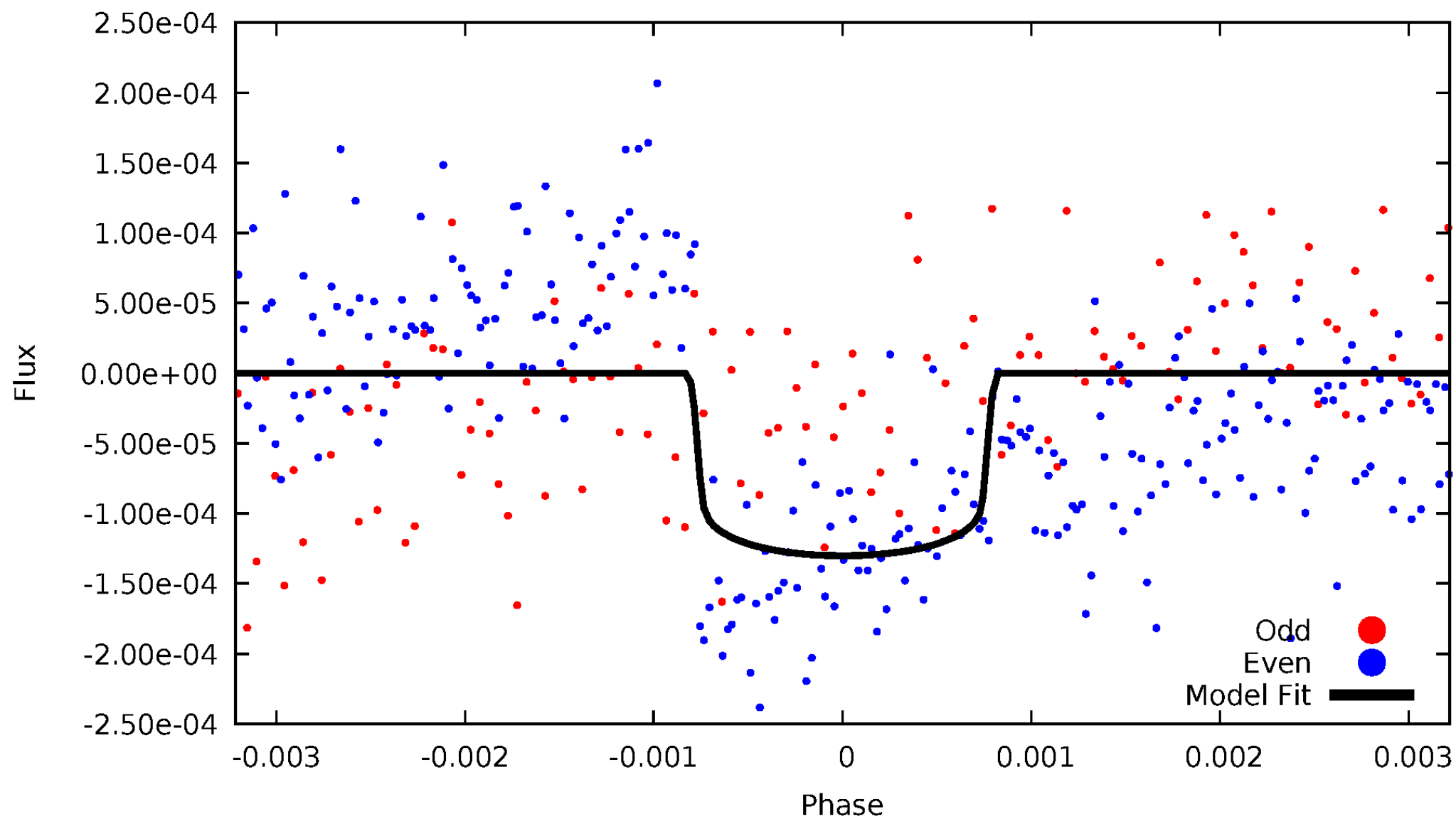


TCE 011260303-01



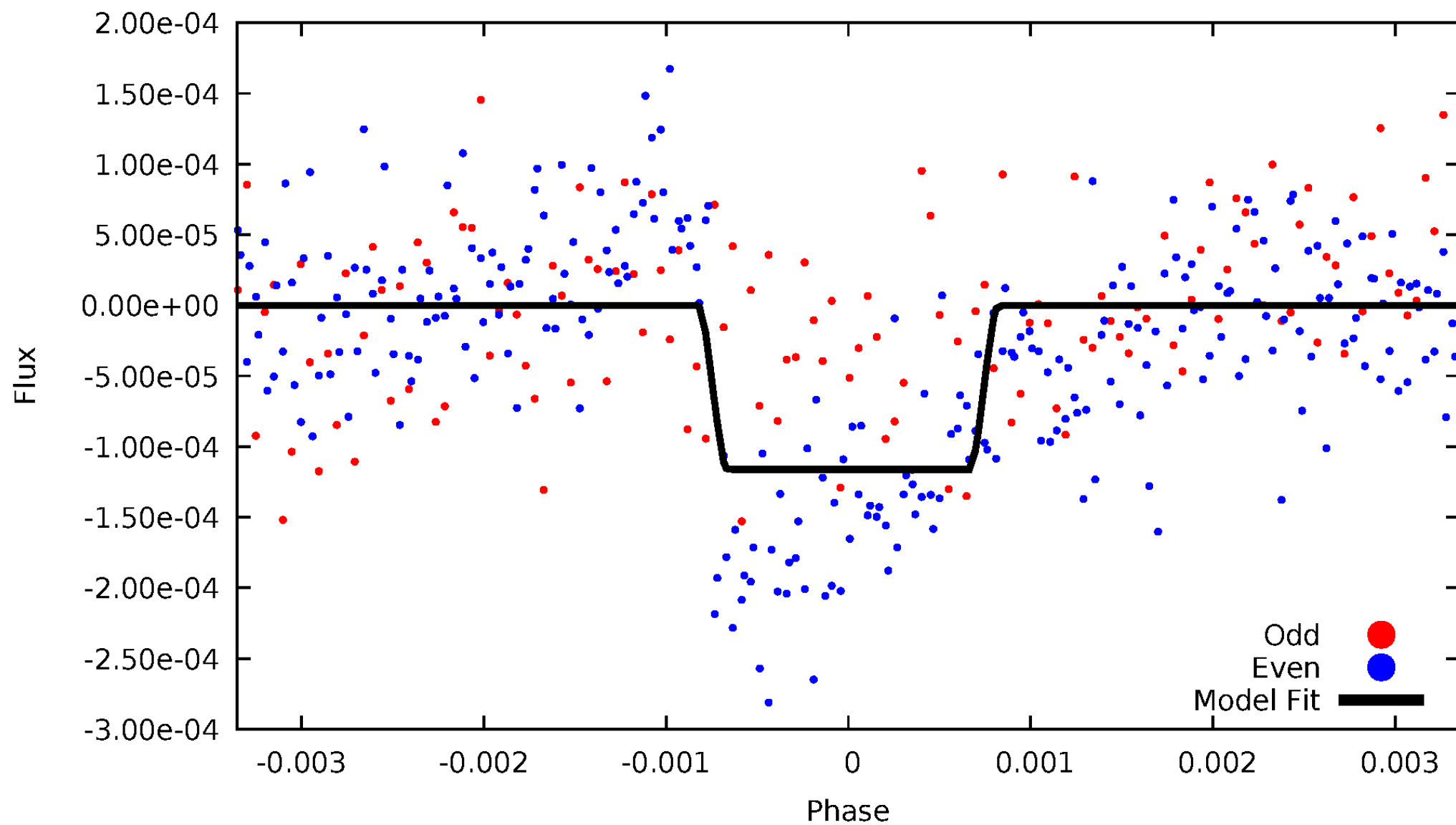
DV Odd/Even

TCE 011260303-01



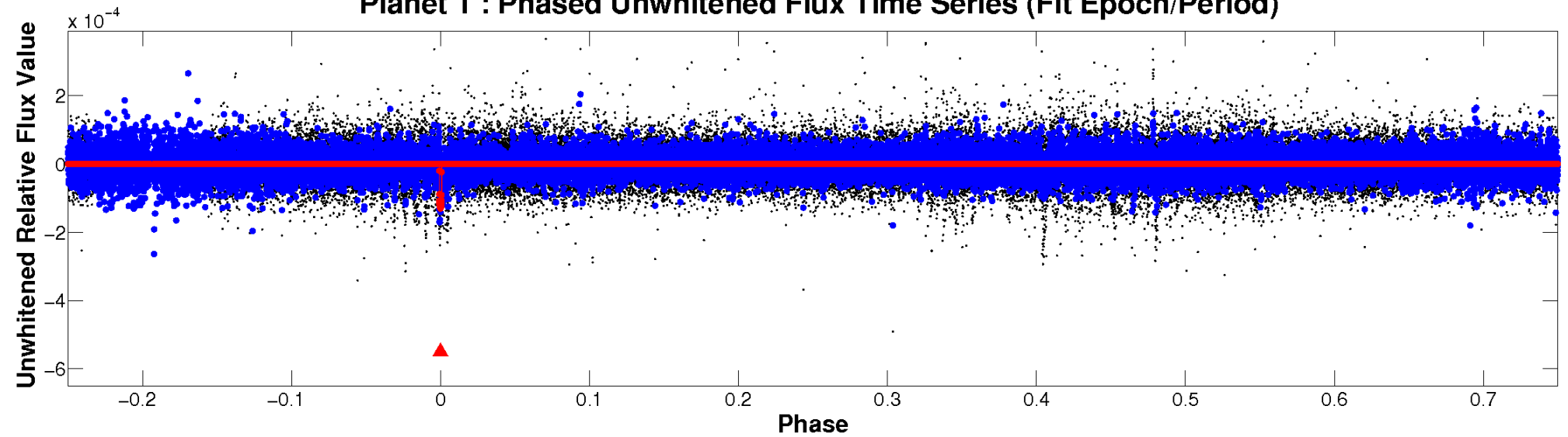
ALT Odd/Even

TCE 011260303-01

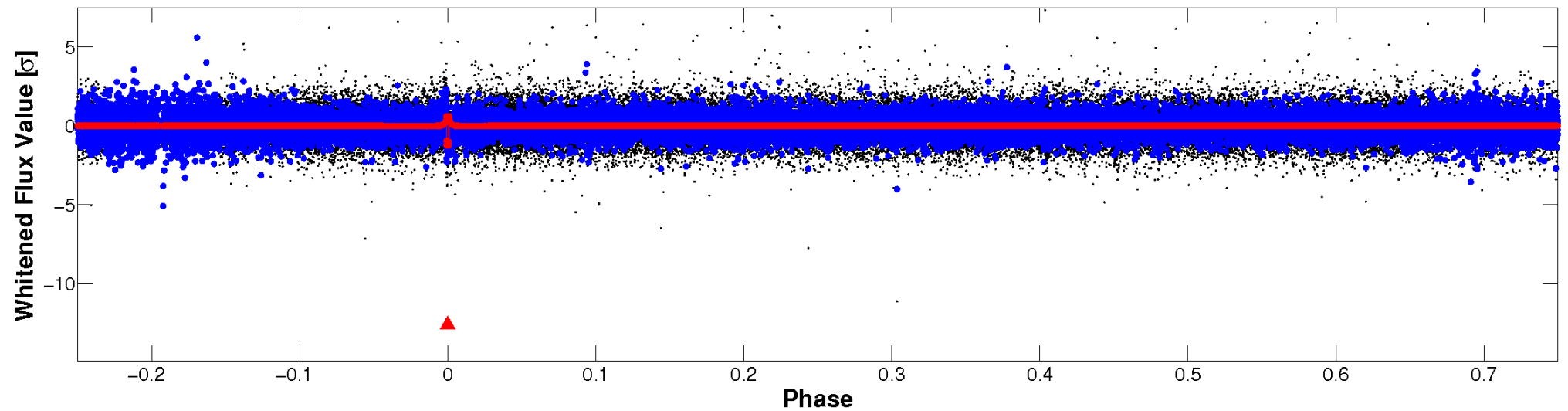


Non-Whitened Vs. Whitened Light Curve

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

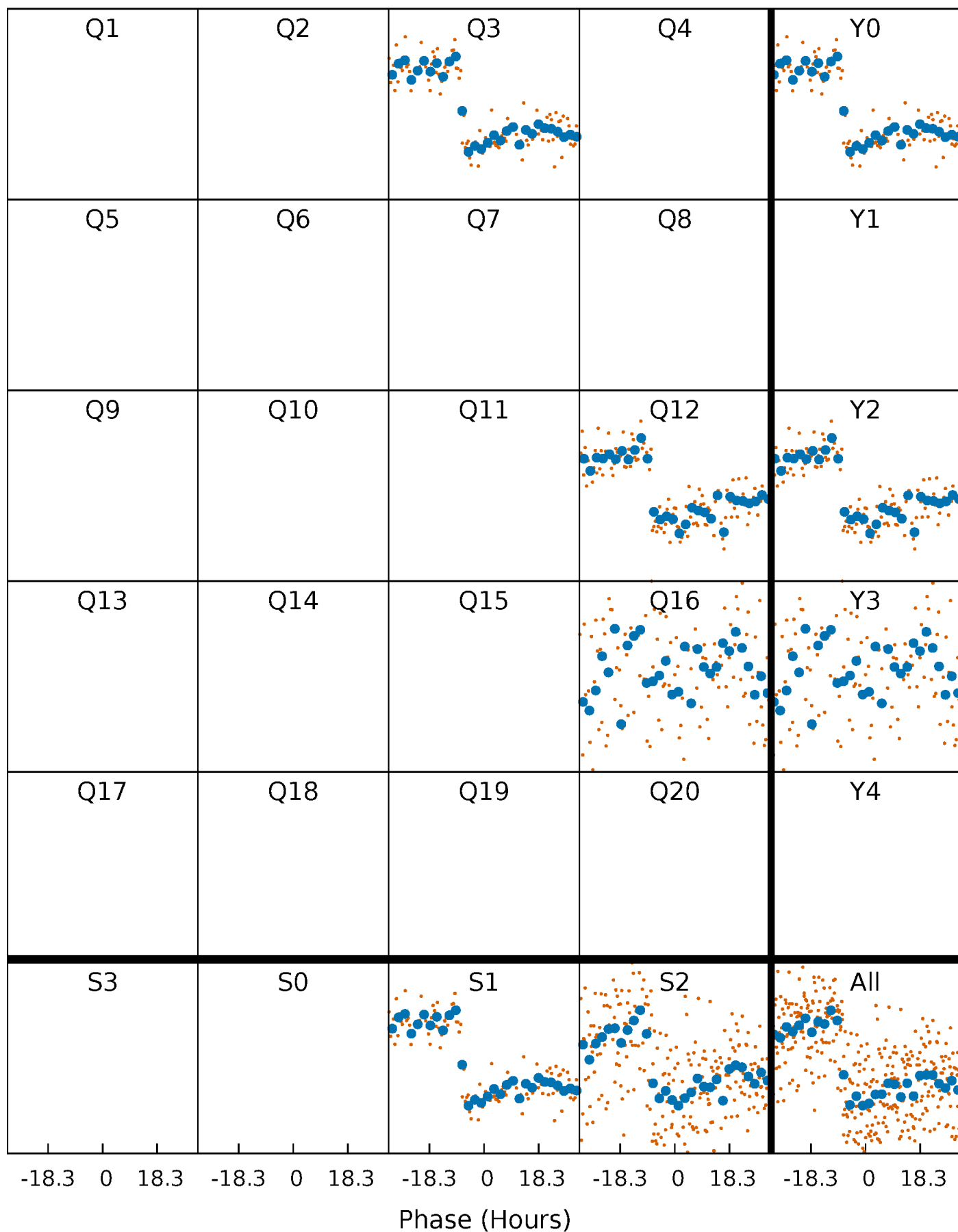


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



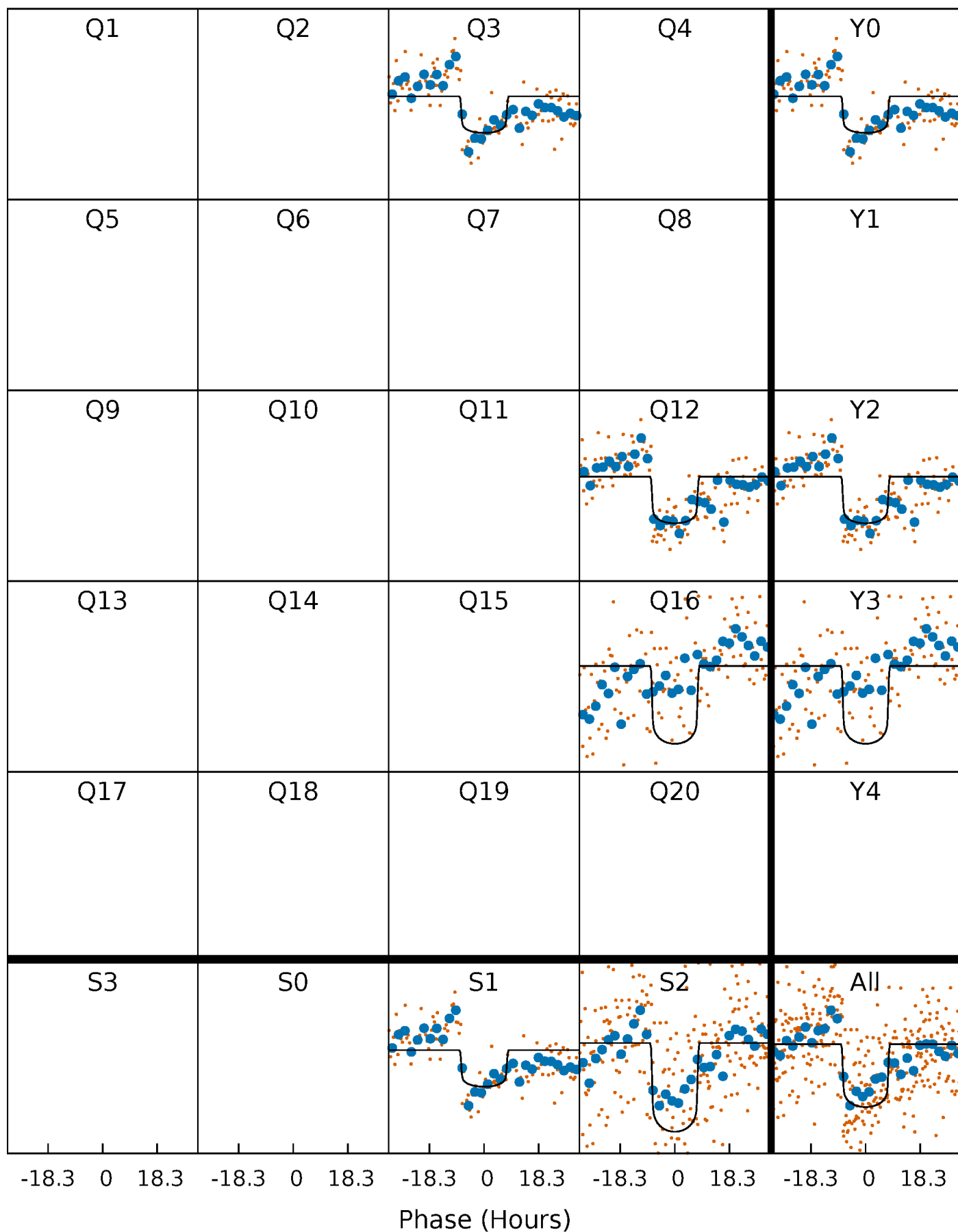
PDC Quarter-Phased Transit Curves

TCE 011260303-01 P=414.100014 Days $T_0=311.121120$ (BKJD)



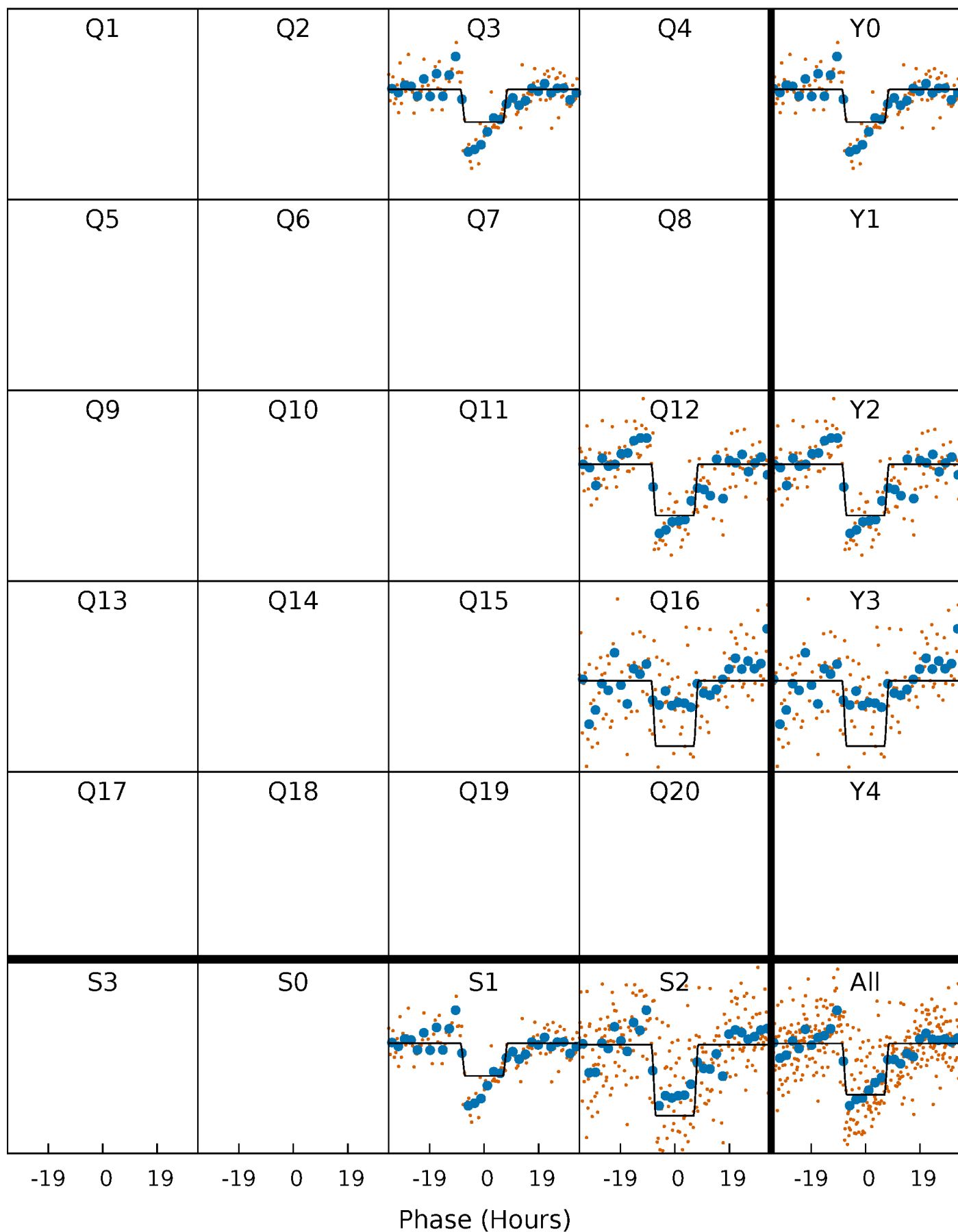
DV Quarter-Phased Transit Curves

TCE 011260303-01 P=414.100014 Days $T_0=311.121120$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

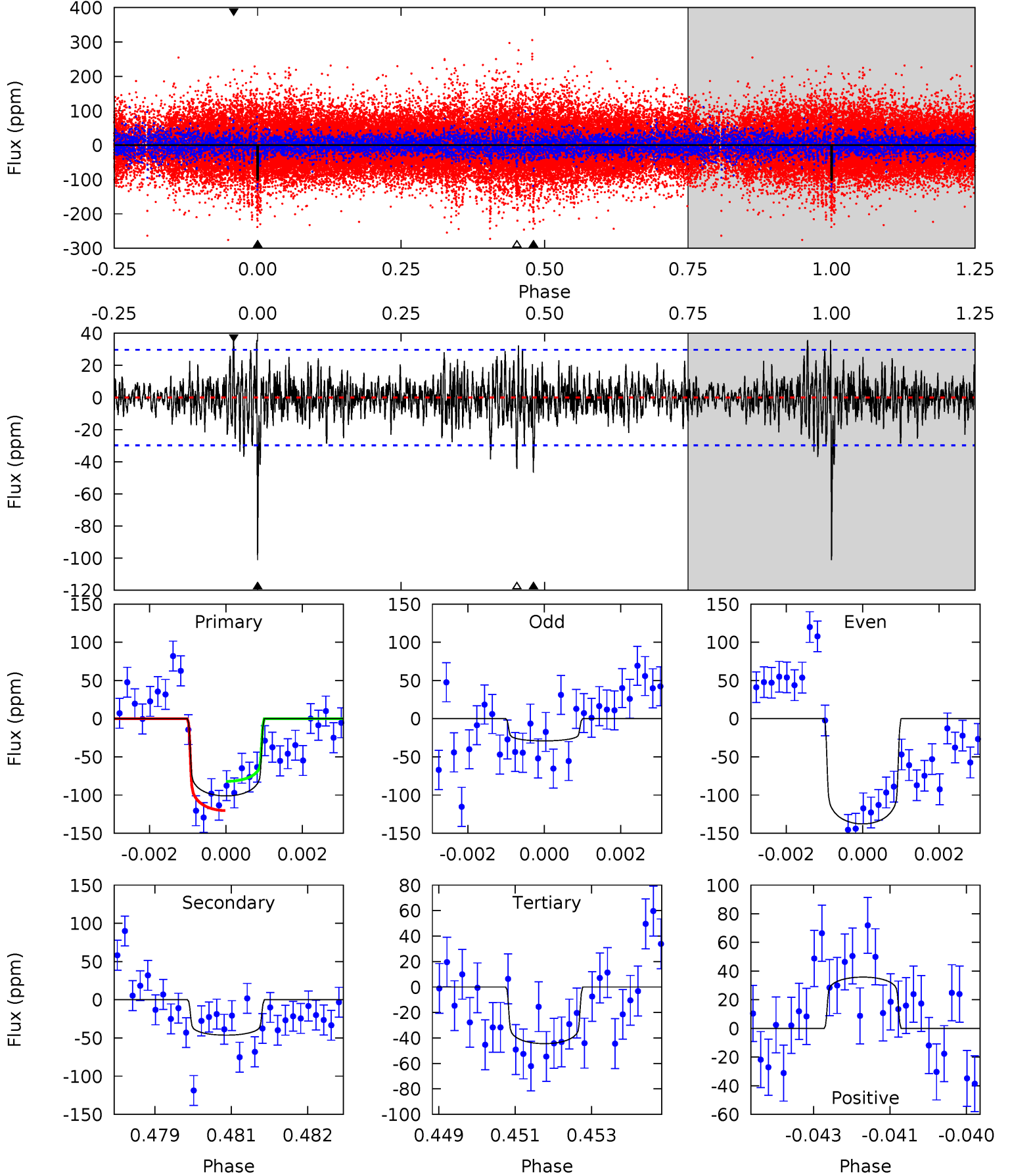
TCE 011260303-01 P=414.092905 Days $T_0=311.120407$ (BKJD)



DV Model-Shift Uniqueness Test

011260303-01, P = 414.100014 Days, E = 311.121120 Days

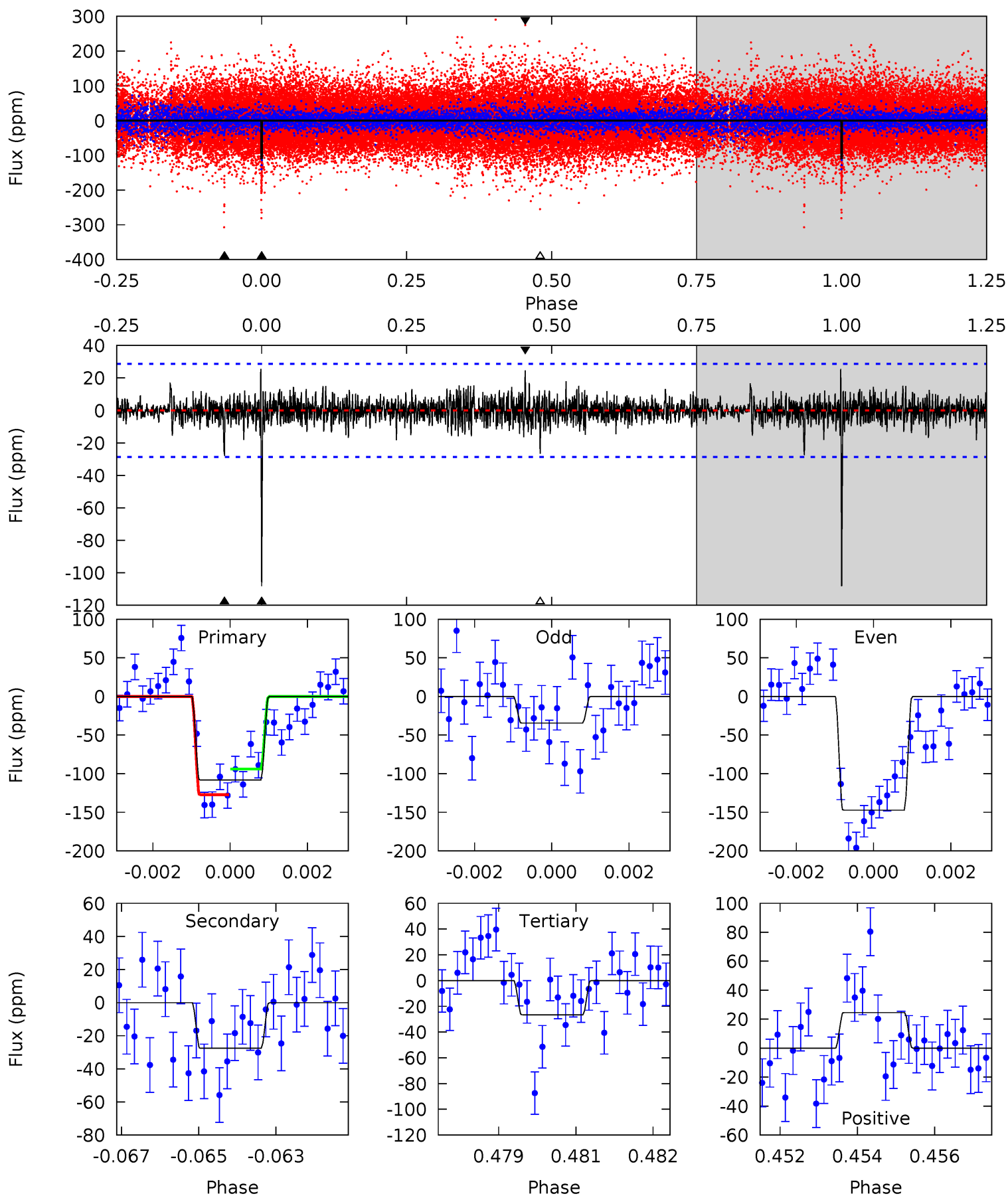
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.2	8.36	8.02	6.46	5.36	3.15	1.73	10.2	11.8	0.33	1.89	9.33	0.76	0.26	3.46



Alt Model-Shift Uniqueness Test

011260303-01, P = 414.092905 Days, E = 311.120407 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.3	5.15	4.98	4.60	5.36	3.14	0.97	15.3	15.7	0.17	0.55	9.98	0.85	0.19	3.09



Stellar Parameters For KIC 011260303

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	10169^{+327}_{-449}	$3.903^{+0.357}_{-0.153}$	$-0.500^{+0.600}_{-0.050}$	$2.846^{+0.785}_{-1.275}$	$2.360^{+0.465}_{-0.568}$	$0.144^{+0.450}_{-0.067}$
	+3%/-4%	+9%/-4%	+120%/-10%	+28%/-45%	+20%/-24%	+312%/-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 011260303-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-46 ± 6	$3.51^{+0.68}_{-0.79}$	864^{+71}_{-94}	7153^{+521}_{-413}	4422^{+2751}_{-1420}
Alt.	-28 ± 5	$3.29^{+0.67}_{-0.69}$	866^{+71}_{-87}	6477^{+511}_{-489}	2908^{+1753}_{-945}

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 $A_{obs} \gg 1.0$

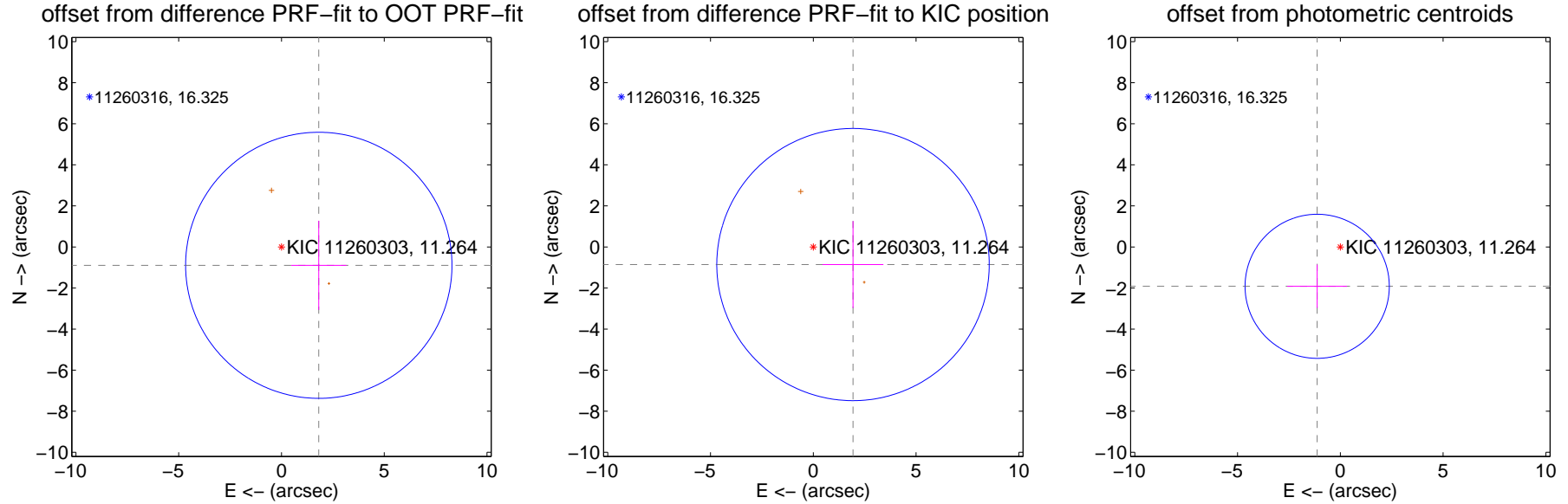
DV Centroid Data

Supplemental centroid analysis for 011260303-01. **Kepler magnitude: 11.26.** Transit SNR 12.00

There are 0 quarters with good PRF difference image offsets

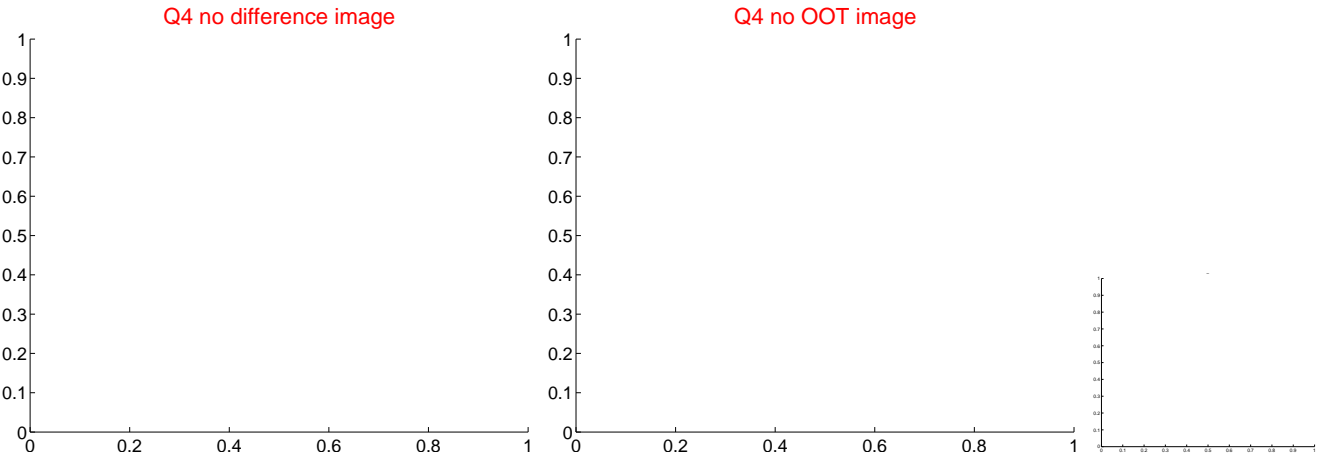
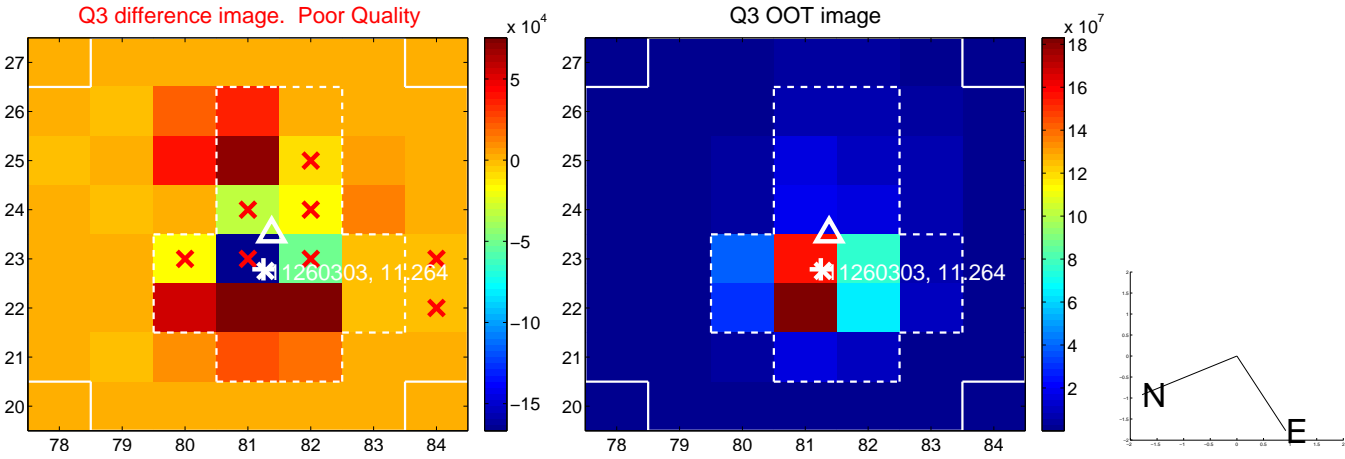
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.024 ± 2.160	0.94	-1.815 ± 1.339	-0.894 ± 2.171
PRF-fit source offset from KIC position	2.115 ± 2.209	0.96	-1.933 ± 1.479	-0.857 ± 2.116
photometric centroid source offset	2.22 ± 1.17	1.90	1.13 ± 1.45	-1.92 ± 1.05



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.

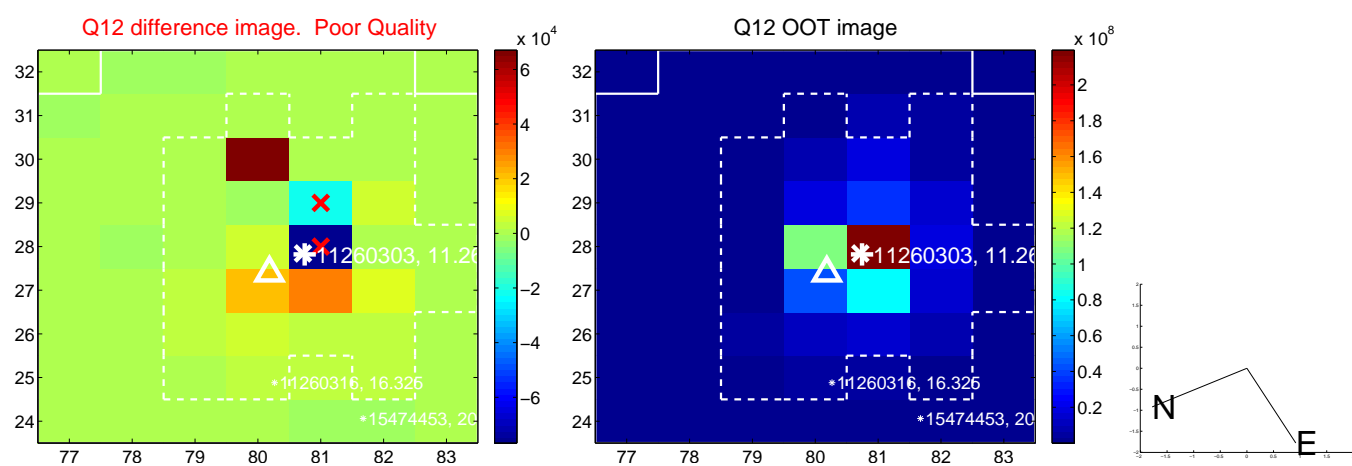
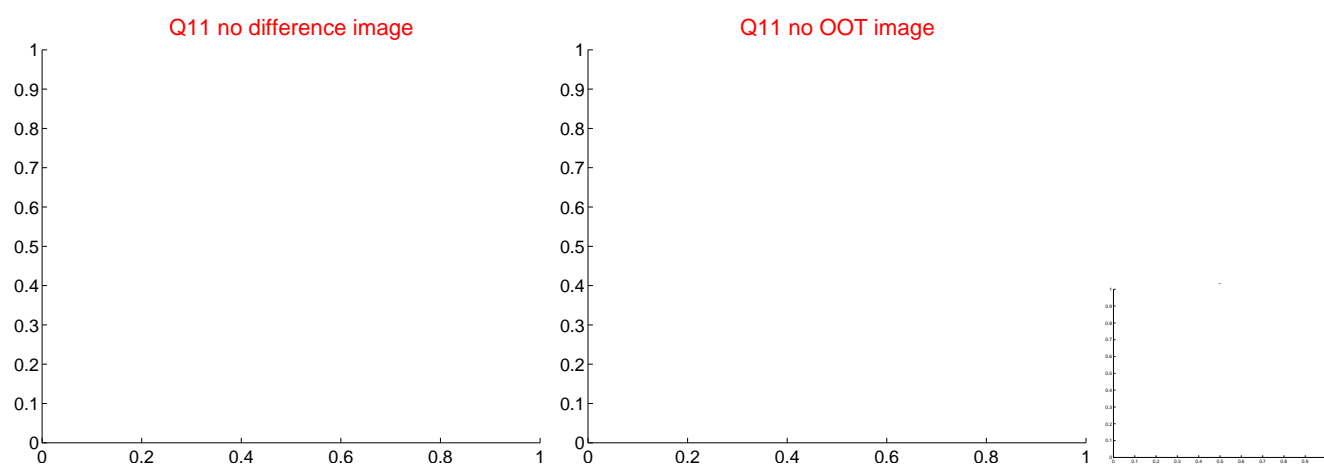
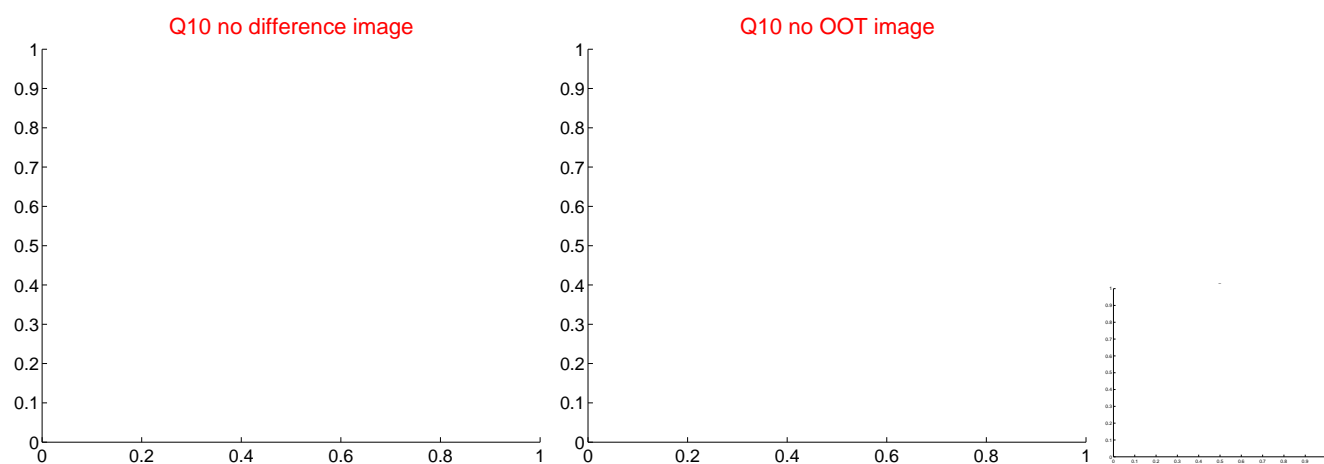
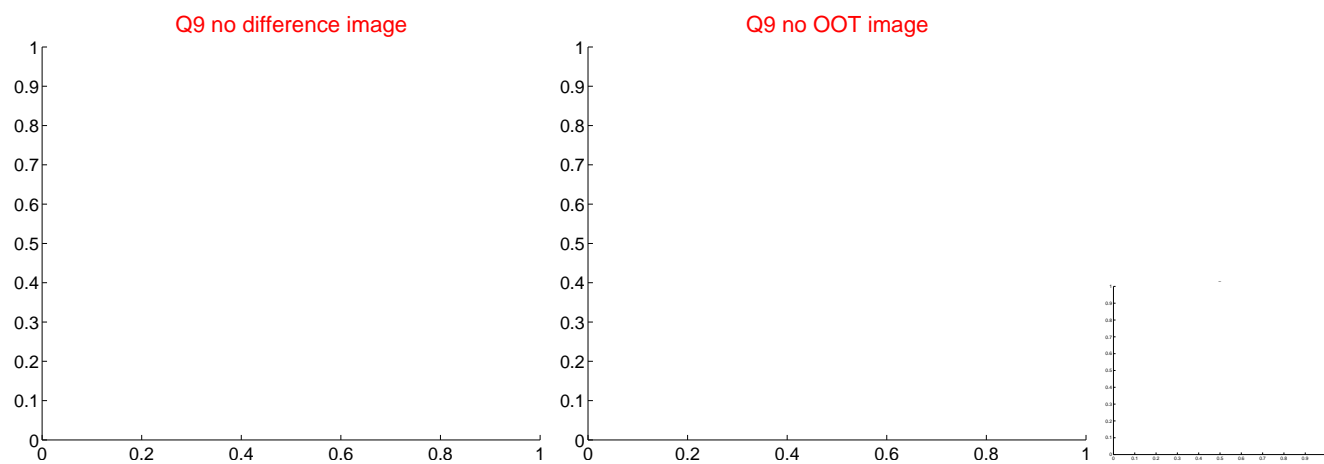
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



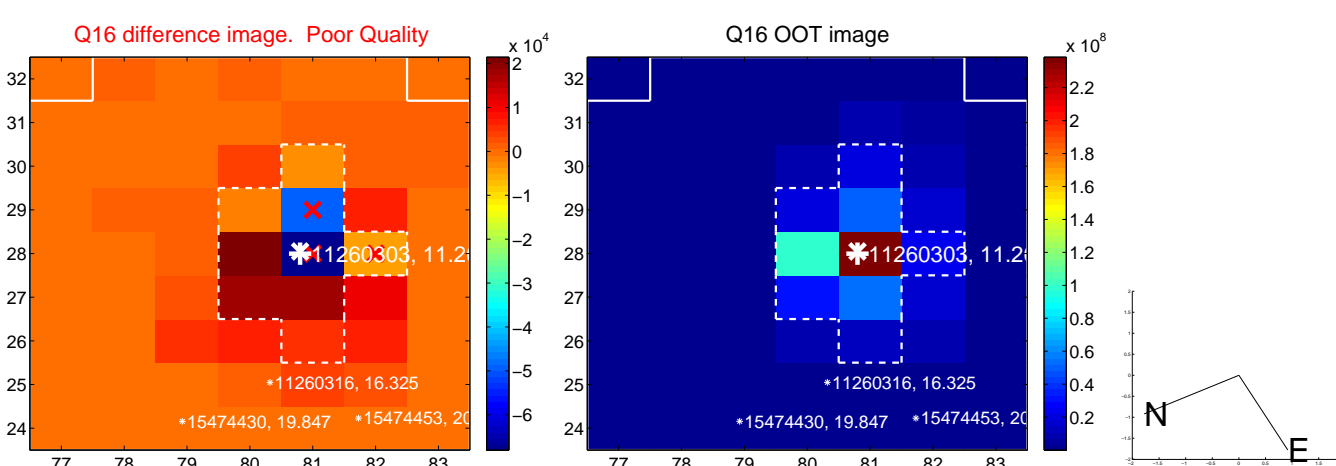
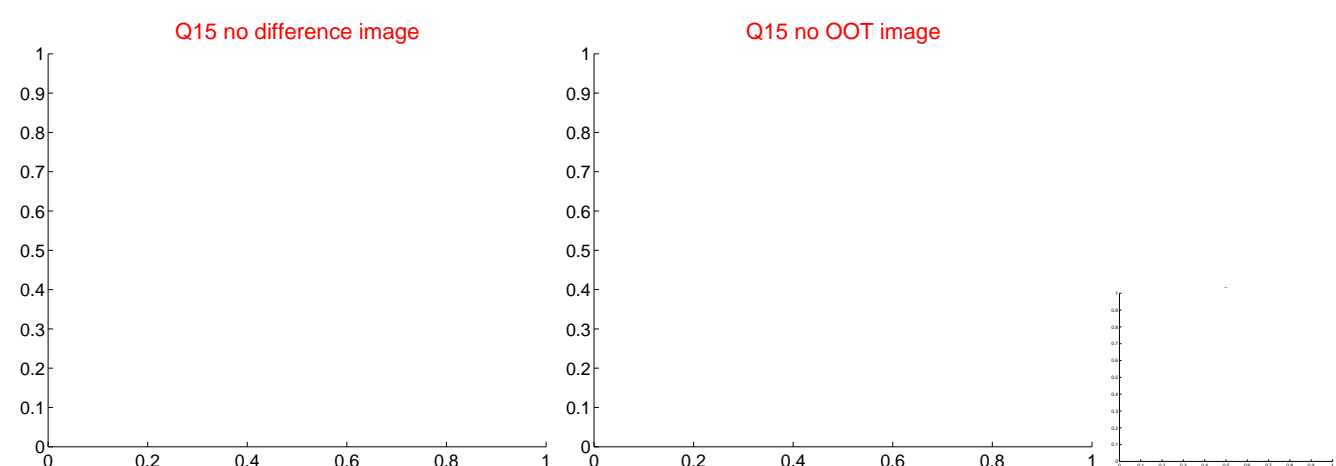
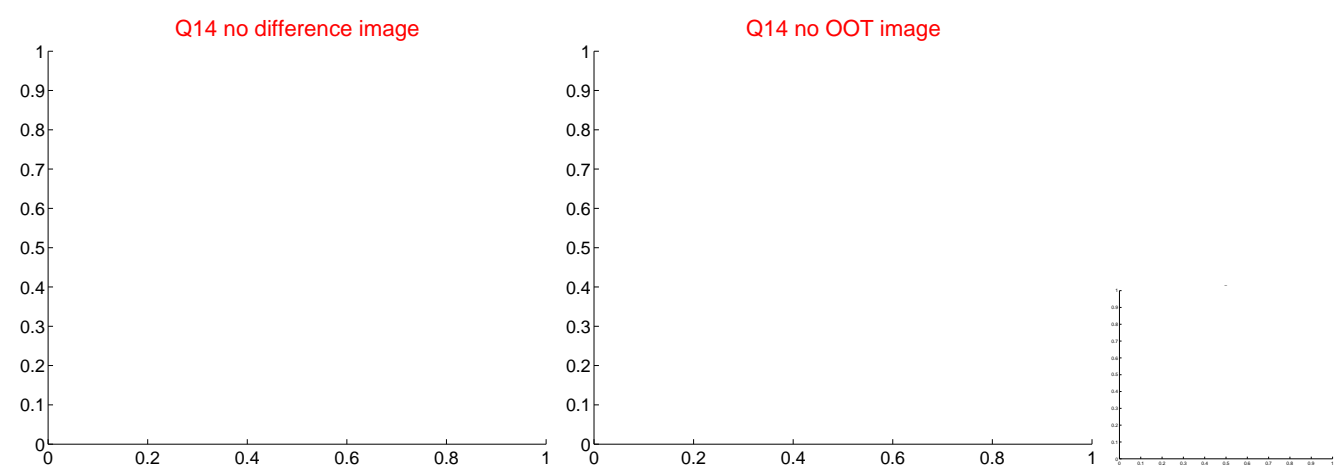
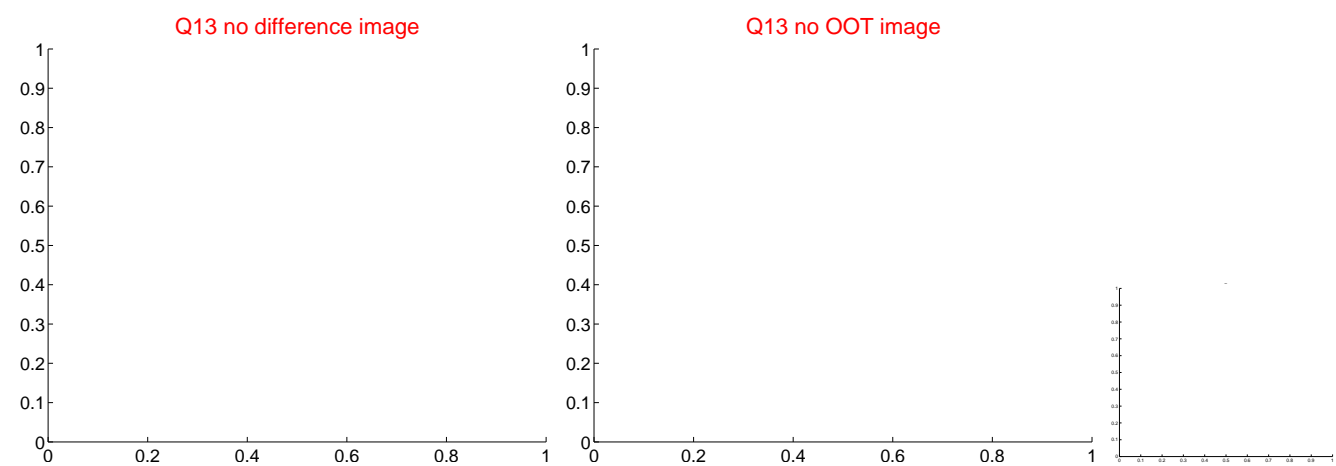
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



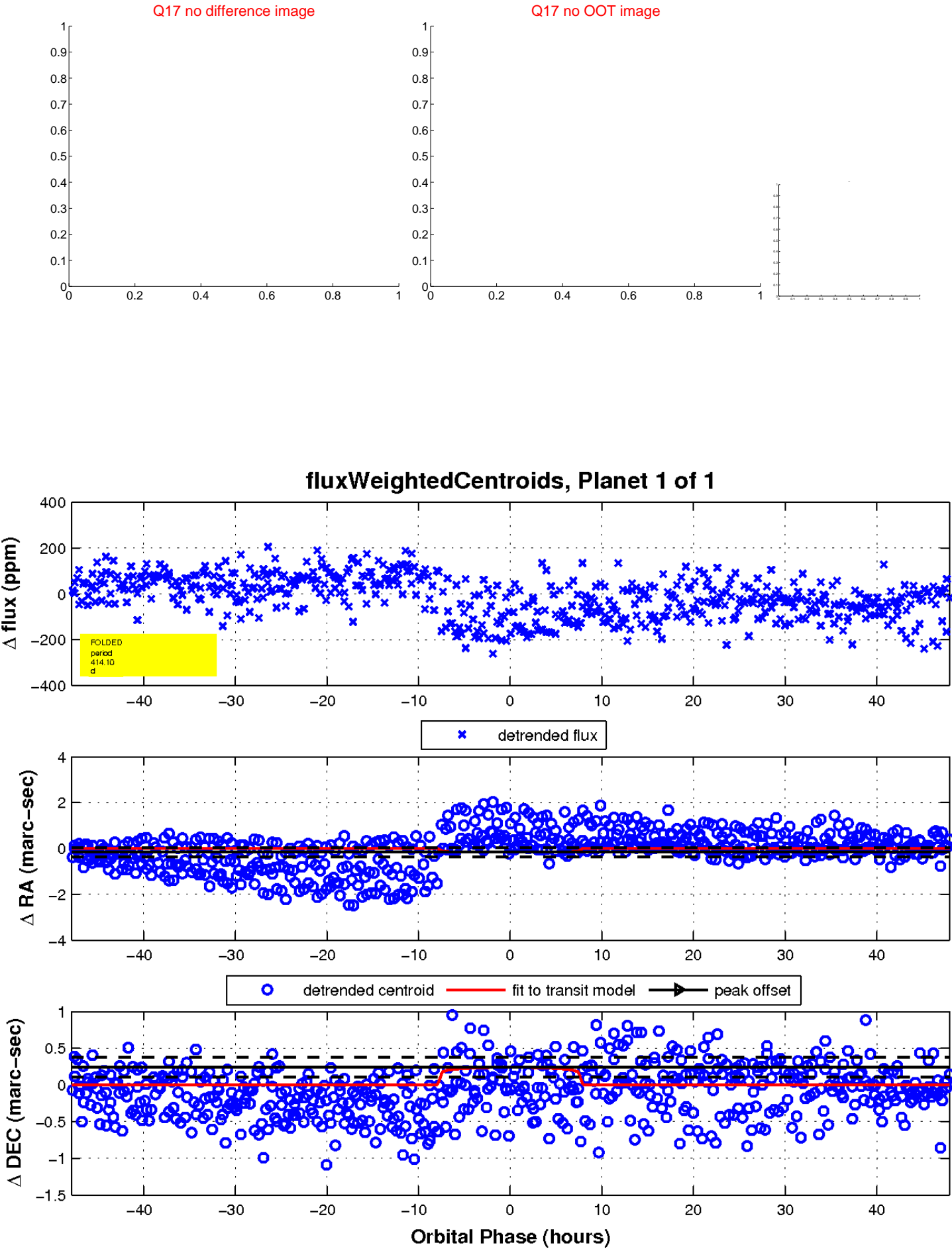
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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UKIRT Image

Declination

