

KIC 011193263

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})
011193263-01	OBS	1438.01	6.911352	136.647732	197.0	5.963	33.1	36.0	1.35	5685	2.26	329.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011193263-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT

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

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

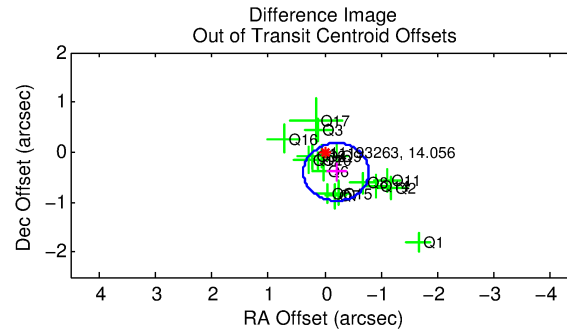
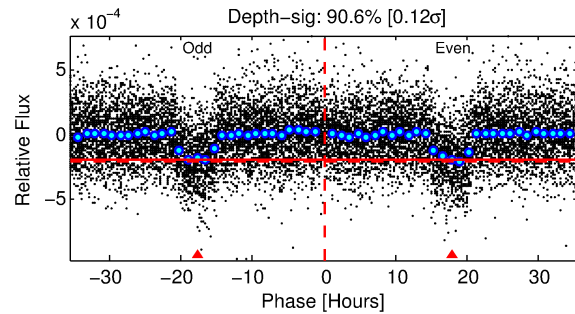
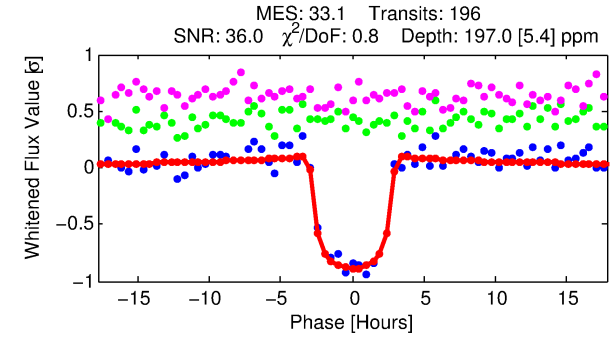
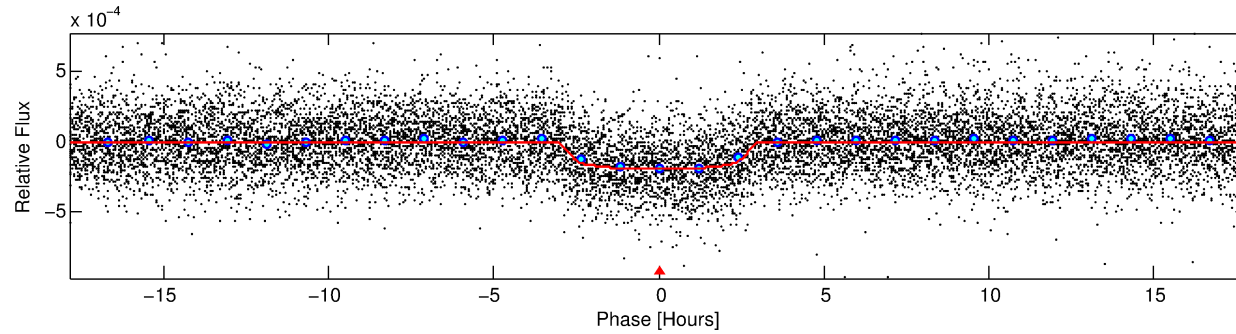
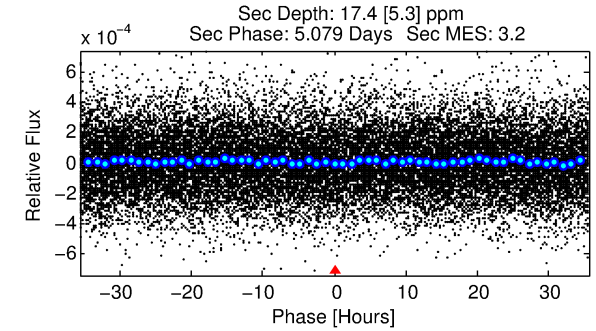
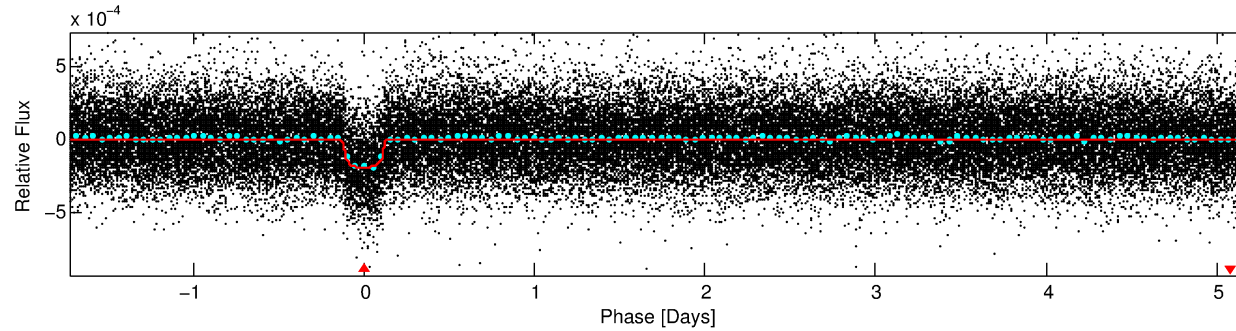
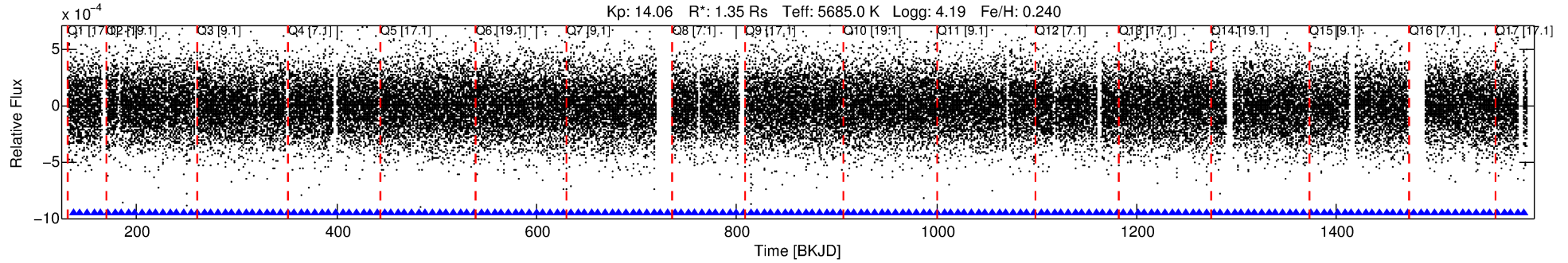
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011193263-01

No Significant Match Found

DV One-Page Summary

KIC: 11193263 Candidate: 1 of 1 Period: 6.911 d
KOI: K01438.01 Corr: 0.974



DV Fit Results:

Period = 6.91135 [0.00002] d
Epoch = 136.6477 [0.0027] BKJD
Rp/R* = 0.0154 [0.0012]
a/R* = 4.26 [1.45]
b = 0.90 [0.08]
Seff = 329.58 [96.39]
Teq = 1086 [79] K
Rp = 2.26 [0.48] Re
a = 0.0719 [0.0130] AU
Ag = 9.66 [4.29] [2.02σ]
Teffp = 2961 [261] K [6.87σ]

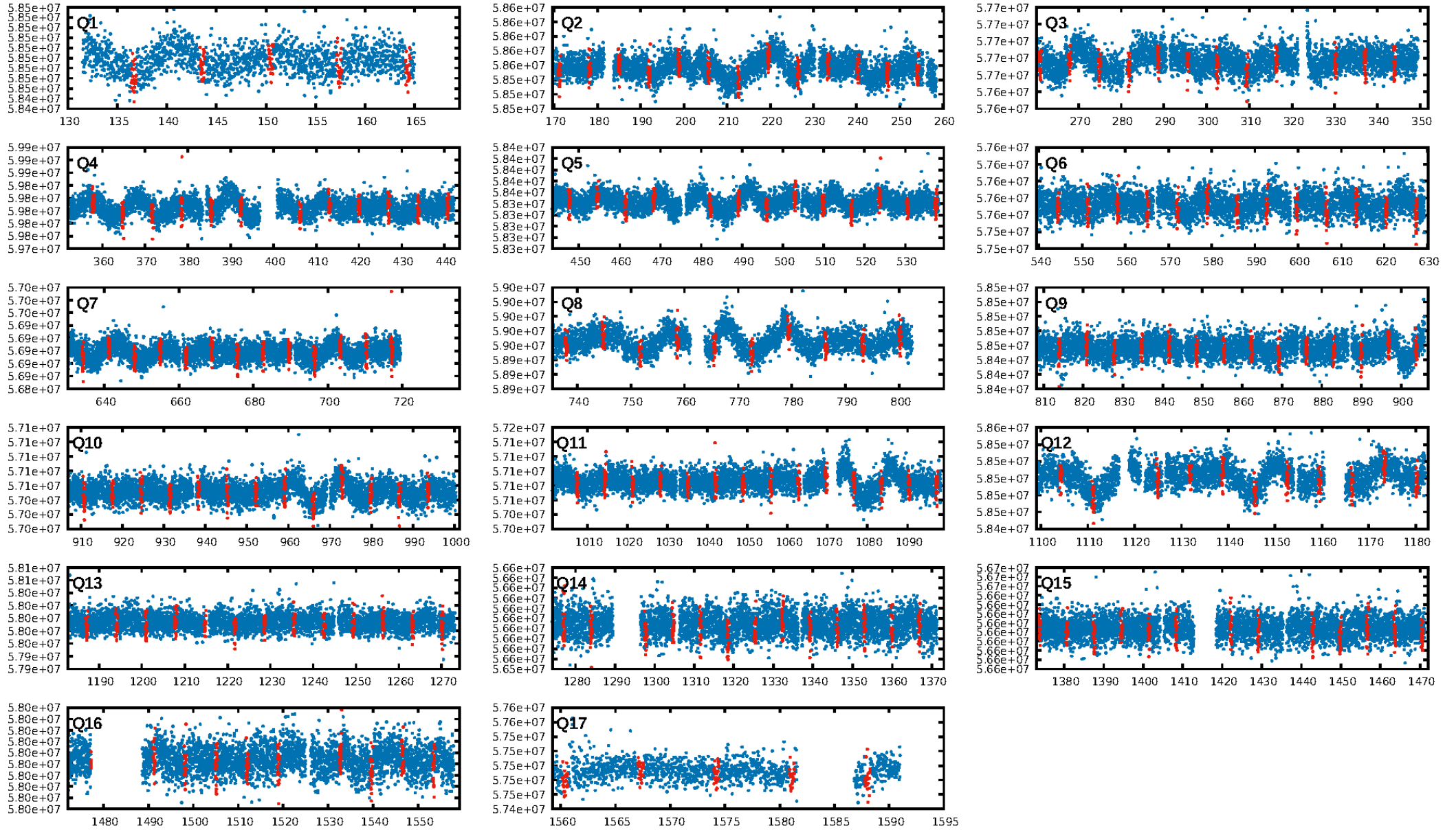
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 100.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.68e-232
RollingBand-fgt: 1.00 [186/186]
GhostDiagnostic-chr: 4.344
Centroid-sig: 15.4%
Centroid-so: 0.171 arcsec [0.56σ]
OotOffset-rm: 0.446 arcsec [2.32σ]
KicOffset-rm: 0.390 arcsec [2.42σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

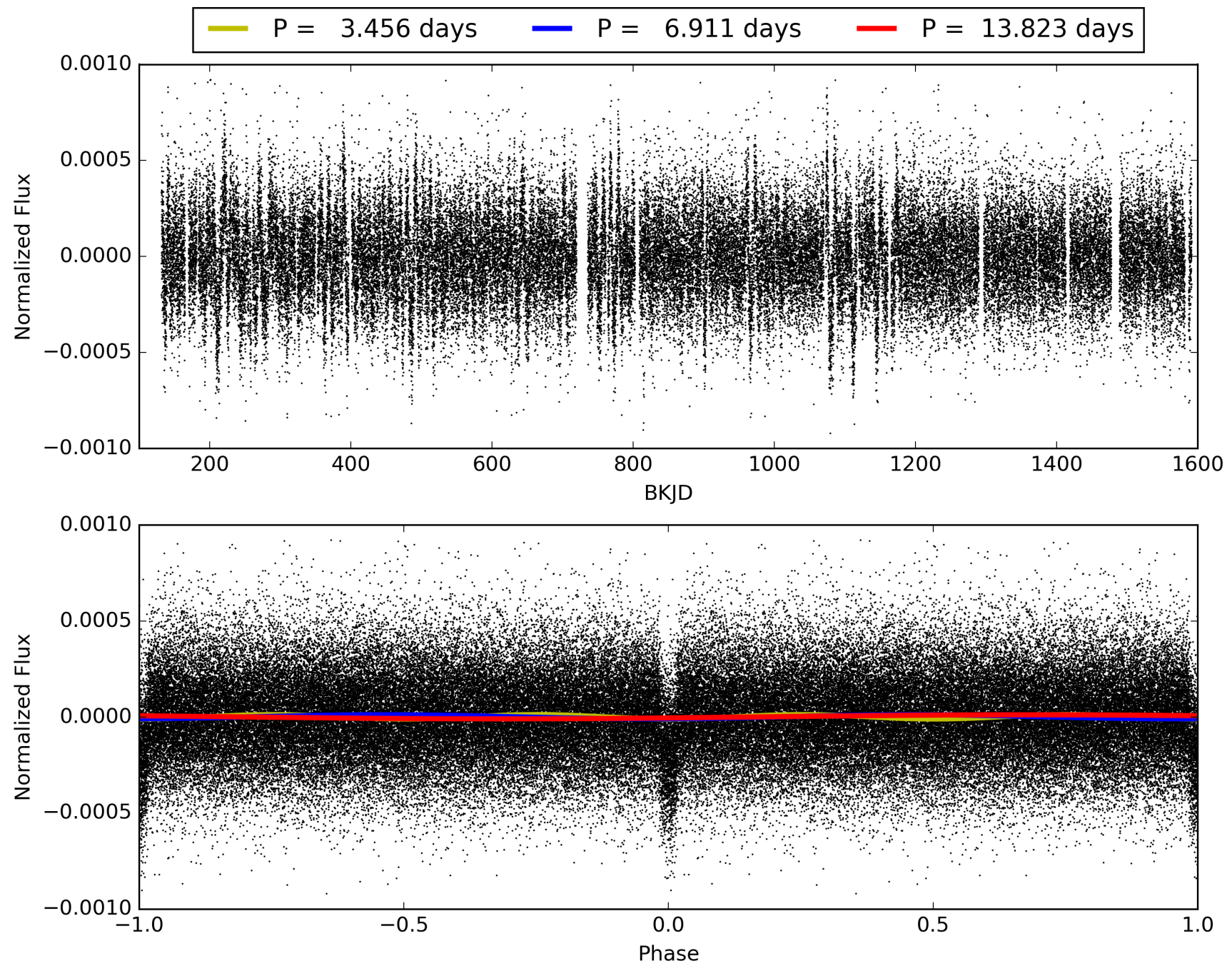
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 21:23:24 Z

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

TCE 011193263-01, PDC Light Curves

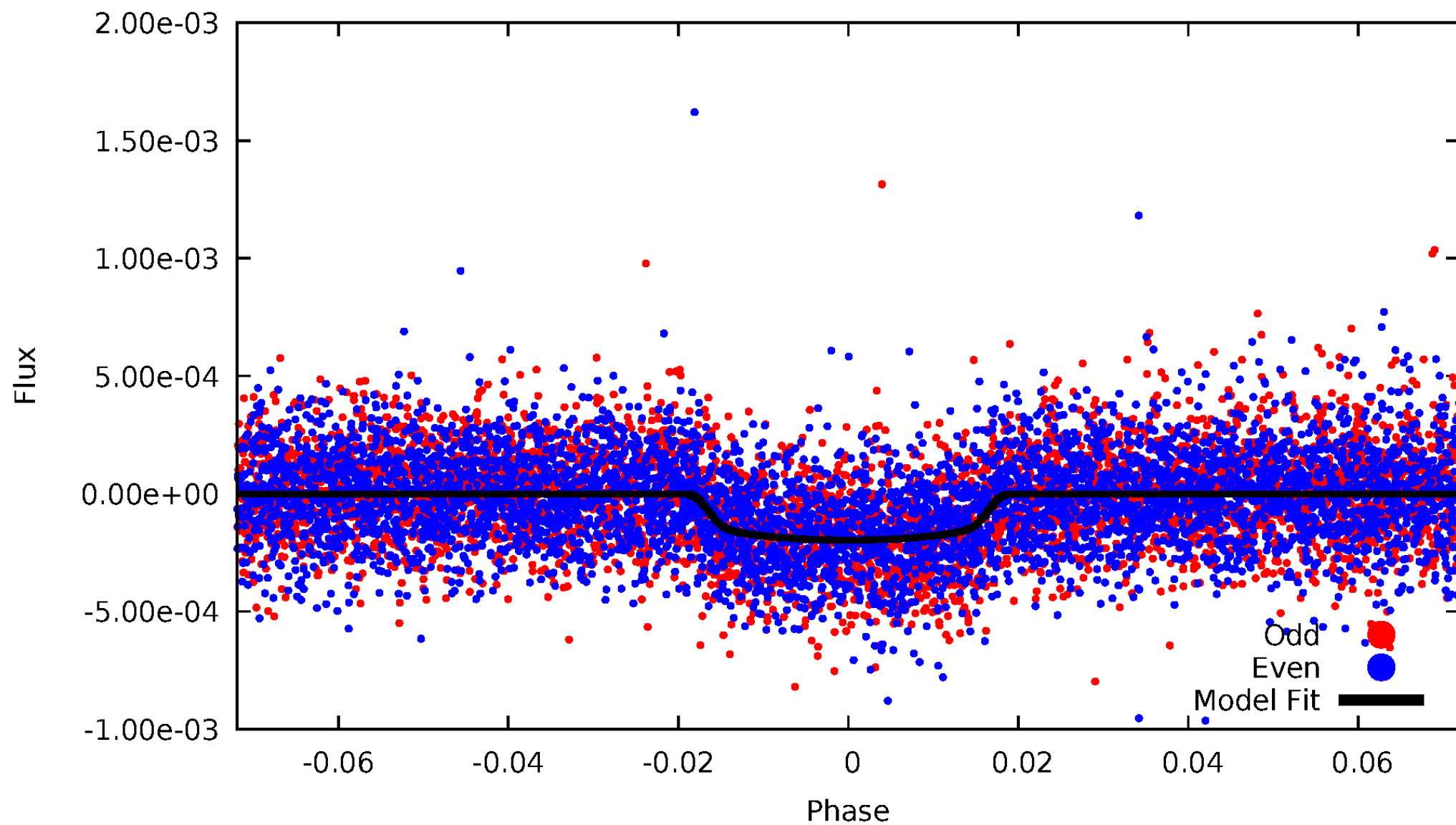


TCE 011193263-01



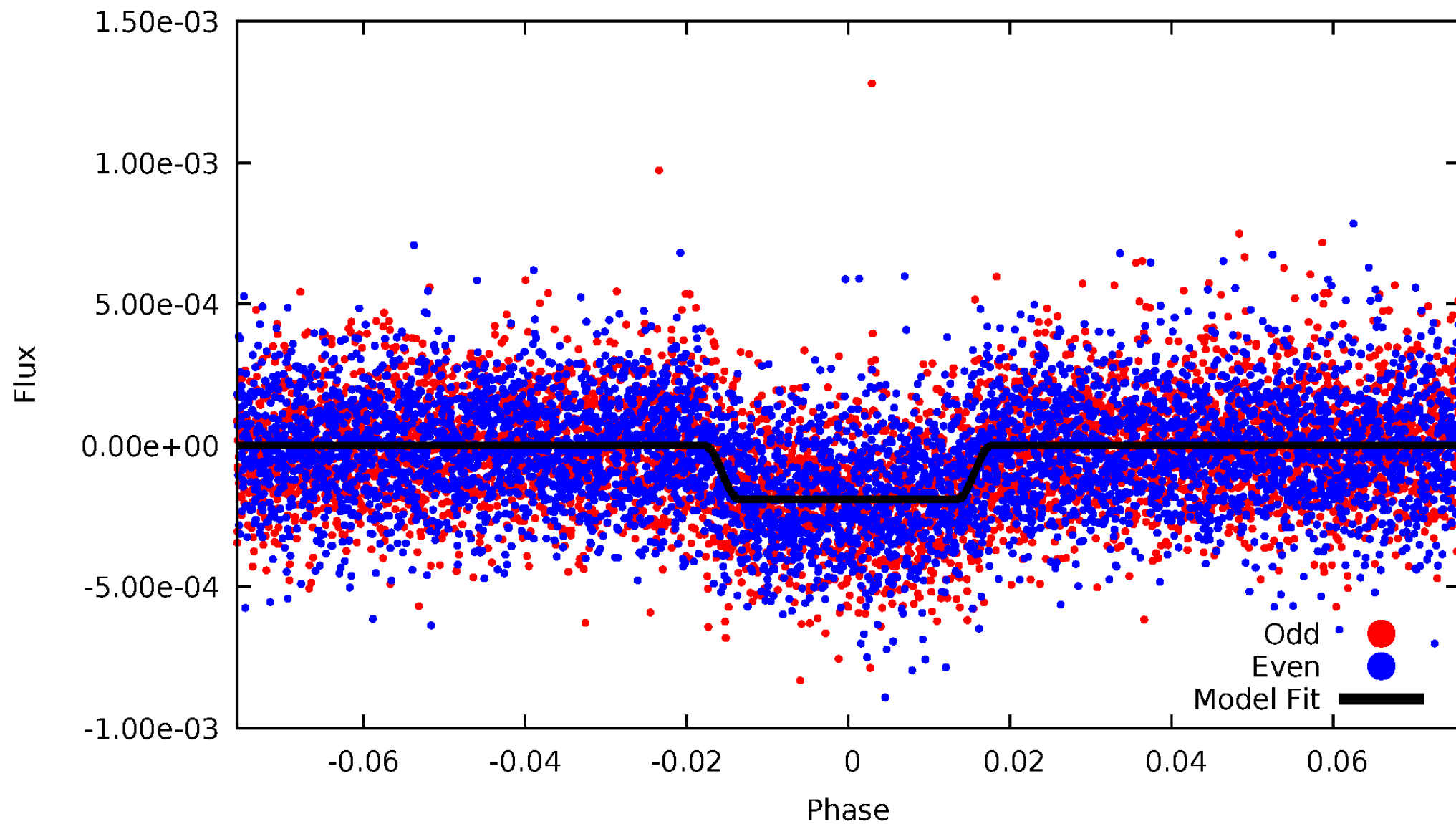
DV Odd/Even

TCE 011193263-01

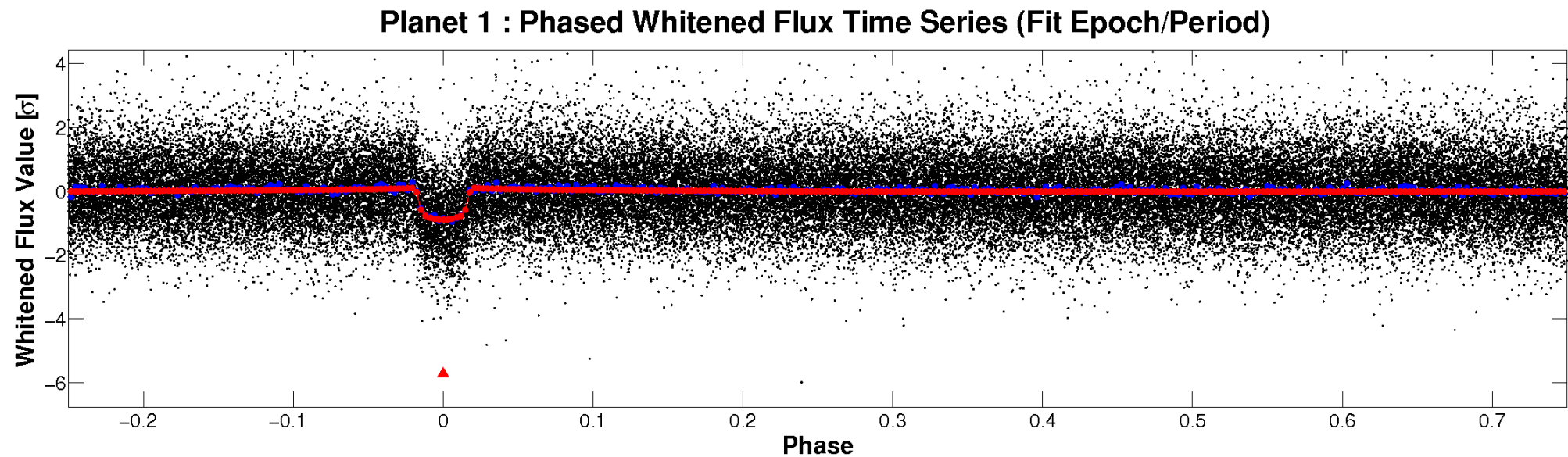
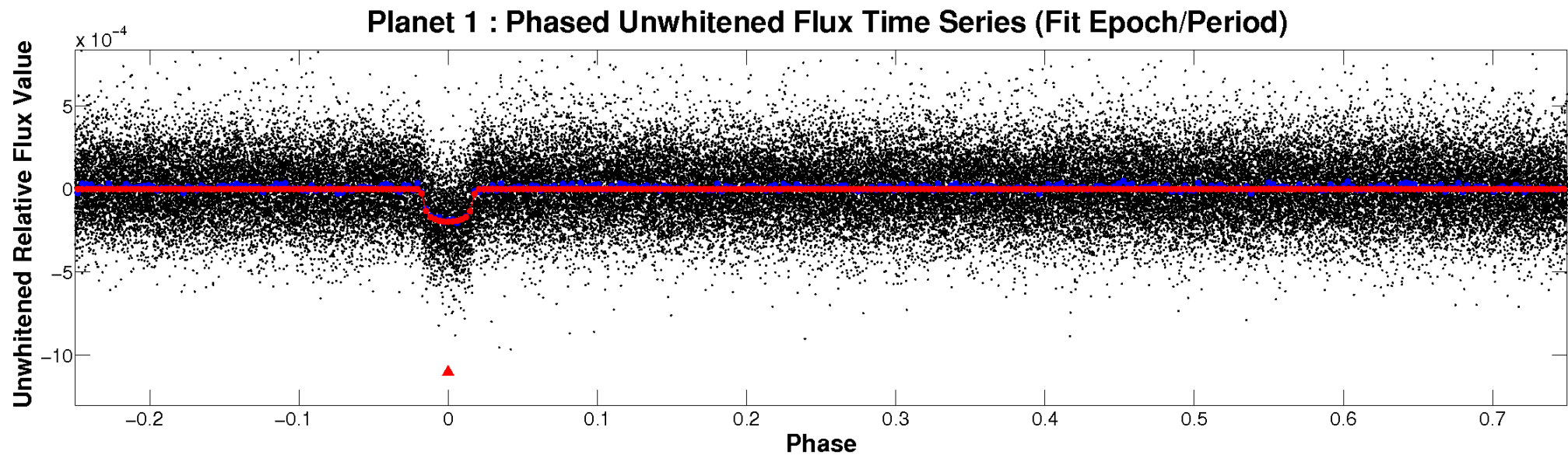


ALT Odd/Even

TCE 011193263-01

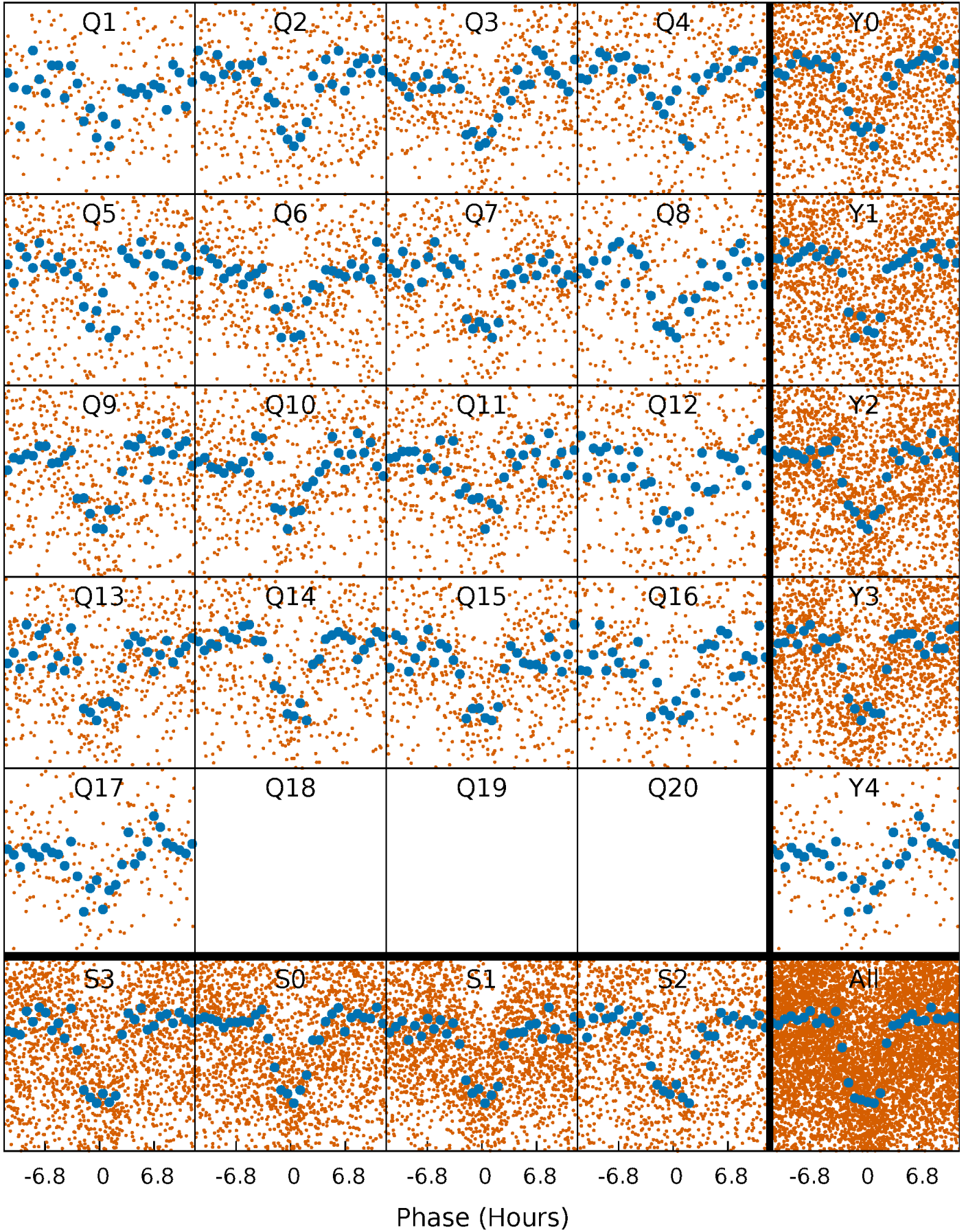


Non-Whitened Vs. Whitened Light Curve



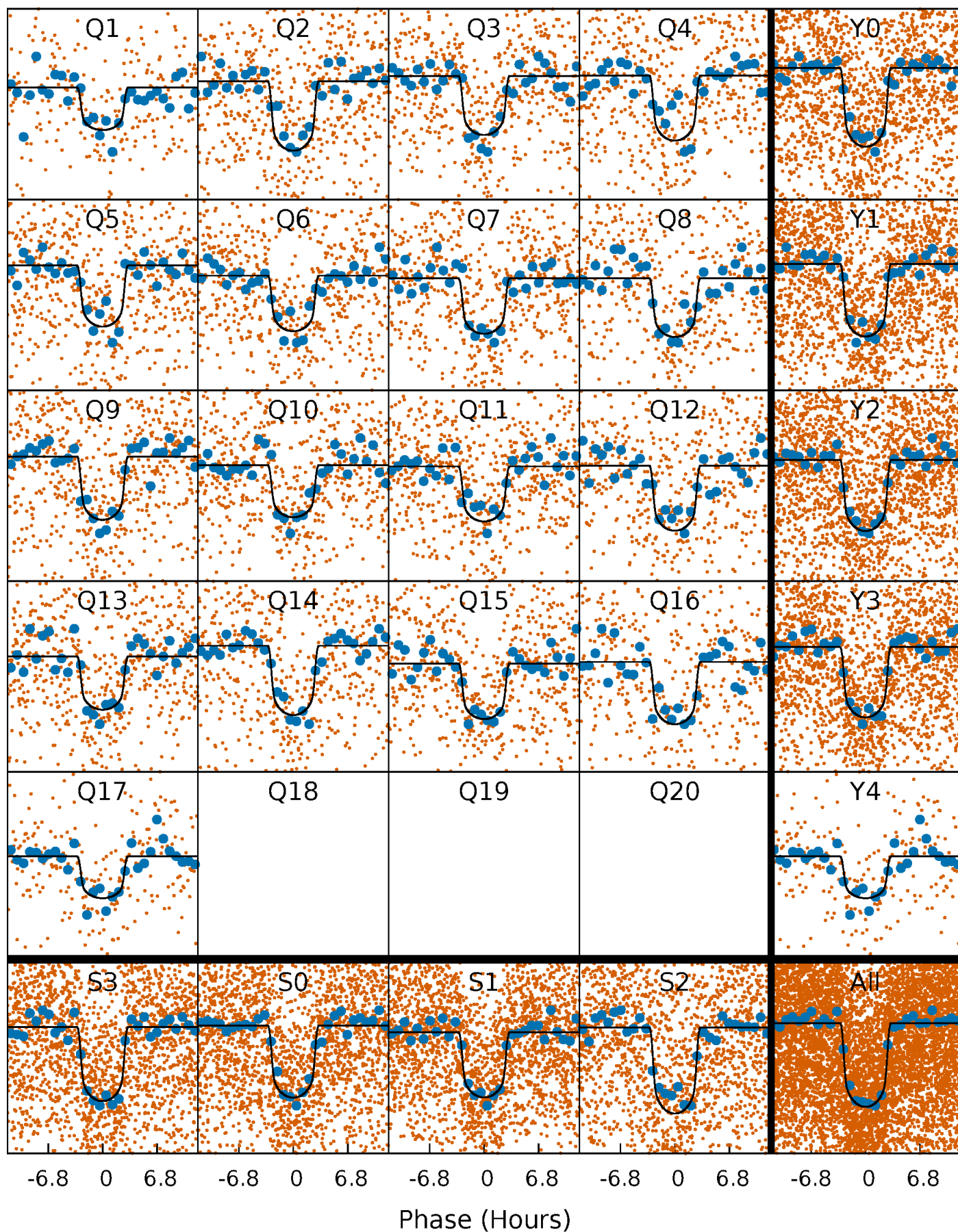
PDC Quarter-Phased Transit Curves

TCE 011193263-01 P= 6.911352 Days $T_0=136.647732$ (BKJD)



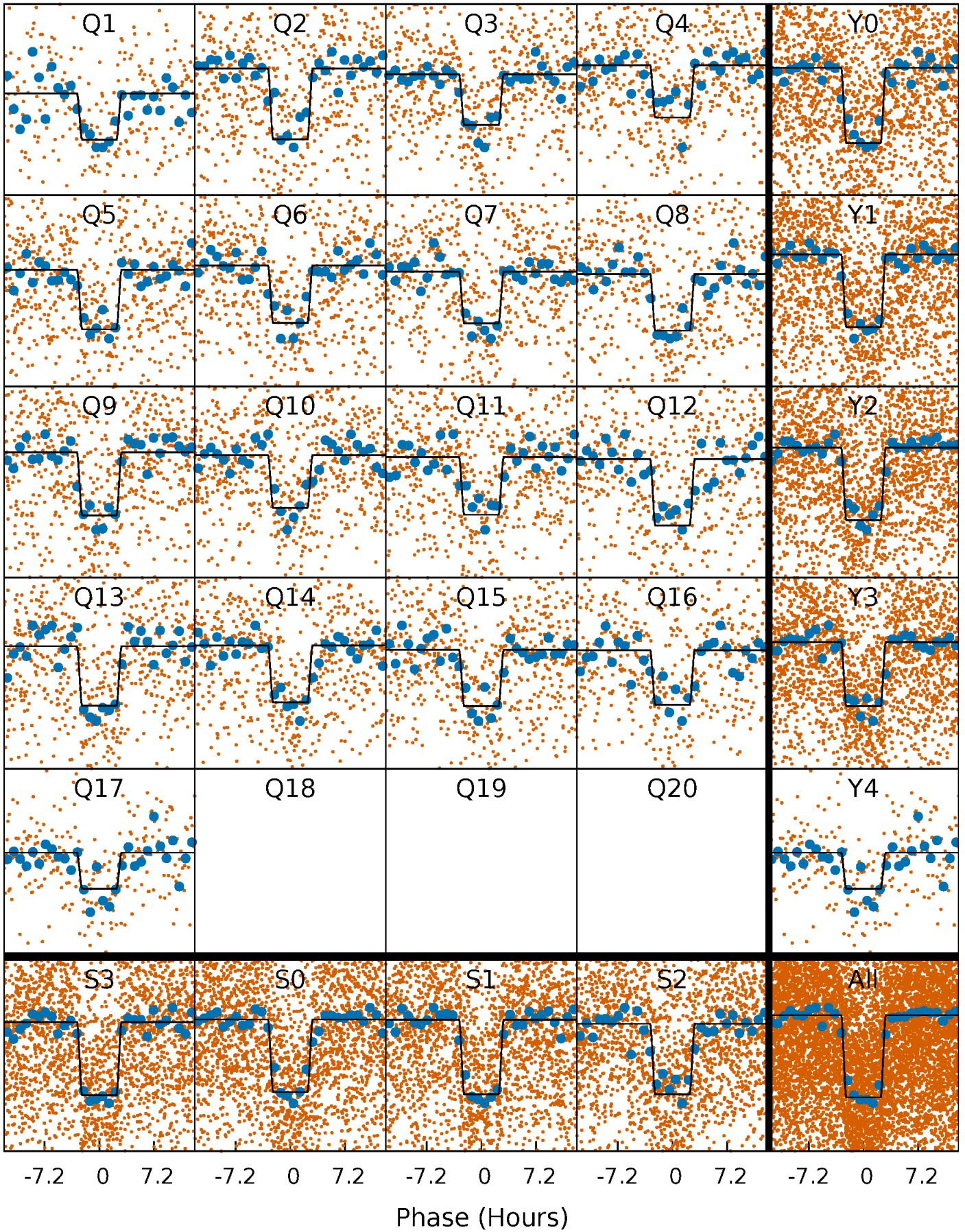
DV Quarter-Phased Transit Curves

TCE 011193263-01 P= 6.911352 Days $T_0=136.647732$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

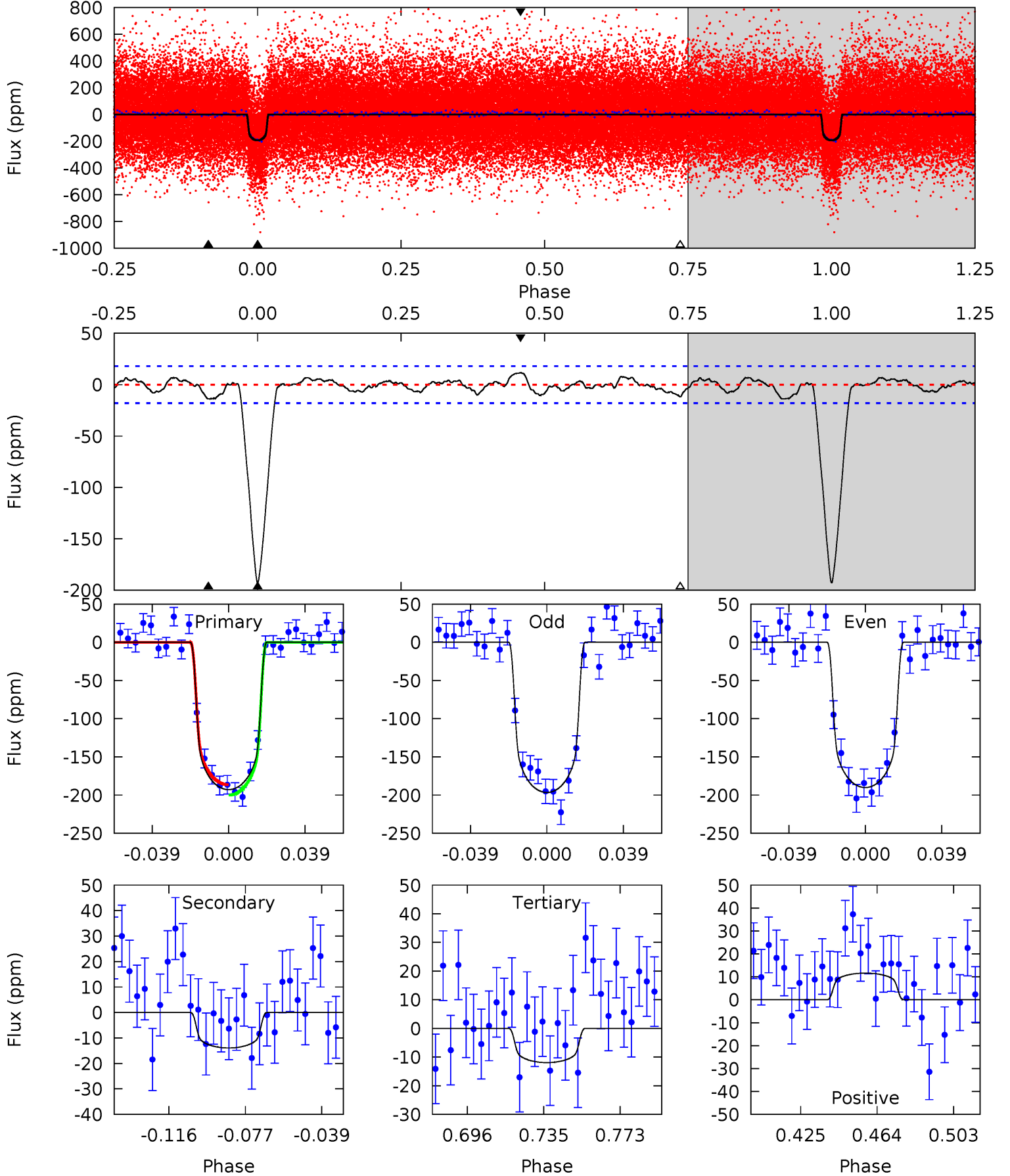
TCE 011193263-01 P= 6.911245 Days $T_0=136.658693$ (BKJD)



DV Model-Shift Uniqueness Test

011193263-01, P = 6.911352 Days, E = 129.736380 Days

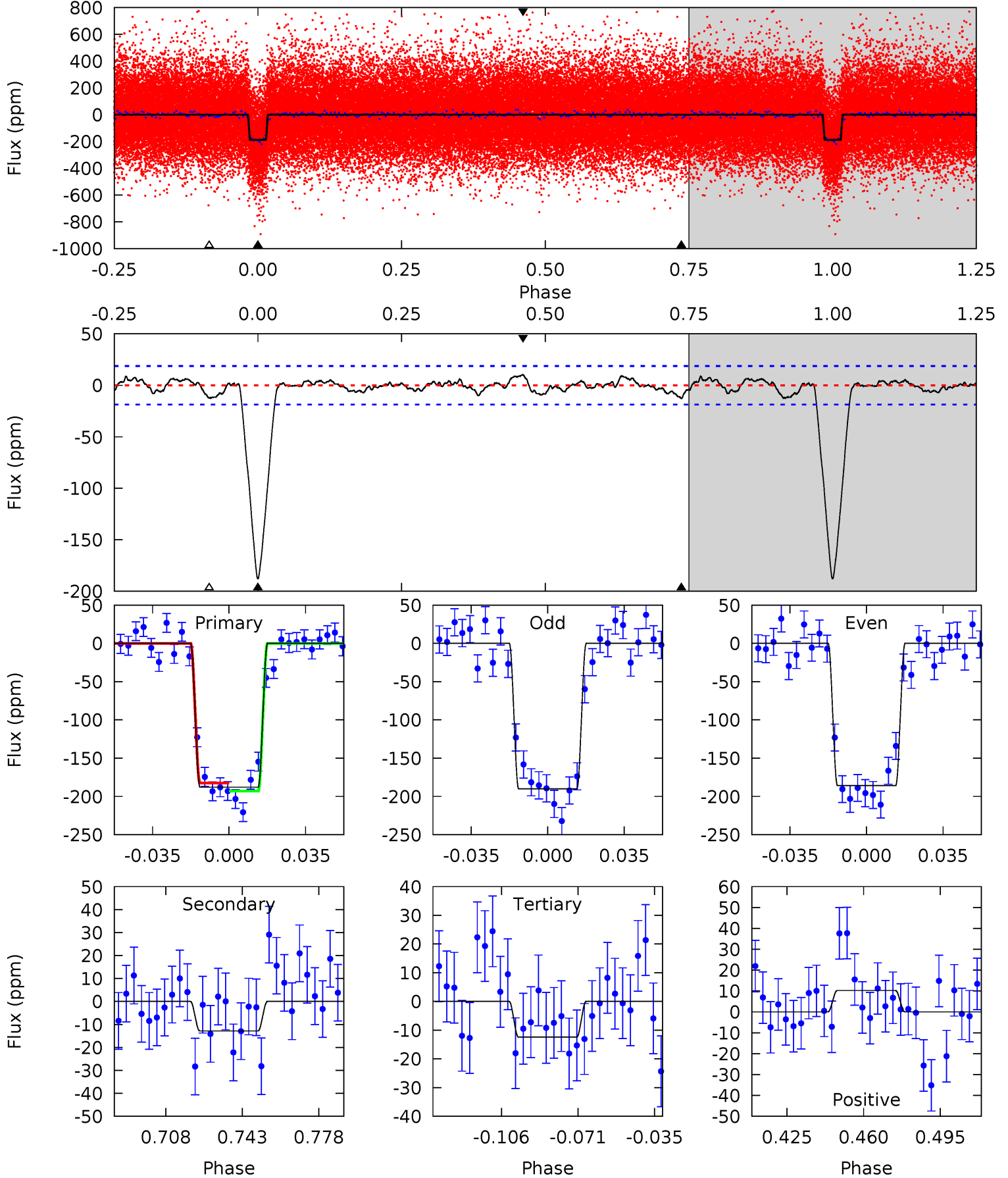
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
50.9	3.67	3.15	3.06	4.76	2.07	1.25	47.7	47.8	0.53	0.61	0.86	1.01	0.06	1.80



Alt Model-Shift Uniqueness Test

011193263-01, P = 6.911245 Days, E = 129.747448 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
48.0	3.29	3.18	2.62	4.78	2.10	1.14	44.9	45.4	0.11	0.67	0.53	1.00	0.05	1.33



Stellar Parameters For KIC 011193263

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5685^{+114}_{-103}	$4.194^{+0.162}_{-0.108}$	$0.240^{+0.150}_{-0.150}$	$1.350^{+0.242}_{-0.266}$	$1.039^{+0.100}_{-0.067}$	$0.594^{+0.481}_{-0.194}$
	+2%/-2%	+4%/-3%	+62%/-62%	+18%/-20%	+10%/-6%	+81%/-33%
Source	SPE59	SPE59	SPE59	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 011193263-01 / KOI 1438.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-14 ± 4	$2.24^{+0.30}_{-0.29}$	1510^{+84}_{-90}	3322^{+165}_{-182}	$7.942^{+3.376}_{-2.595}$
Alt.	-13 ± 4	$2.03^{+0.26}_{-0.27}$	1511^{+77}_{-81}	3373^{+204}_{-210}	$8.888^{+4.200}_{-3.276}$

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 $A_{obs} \gg 1.0$

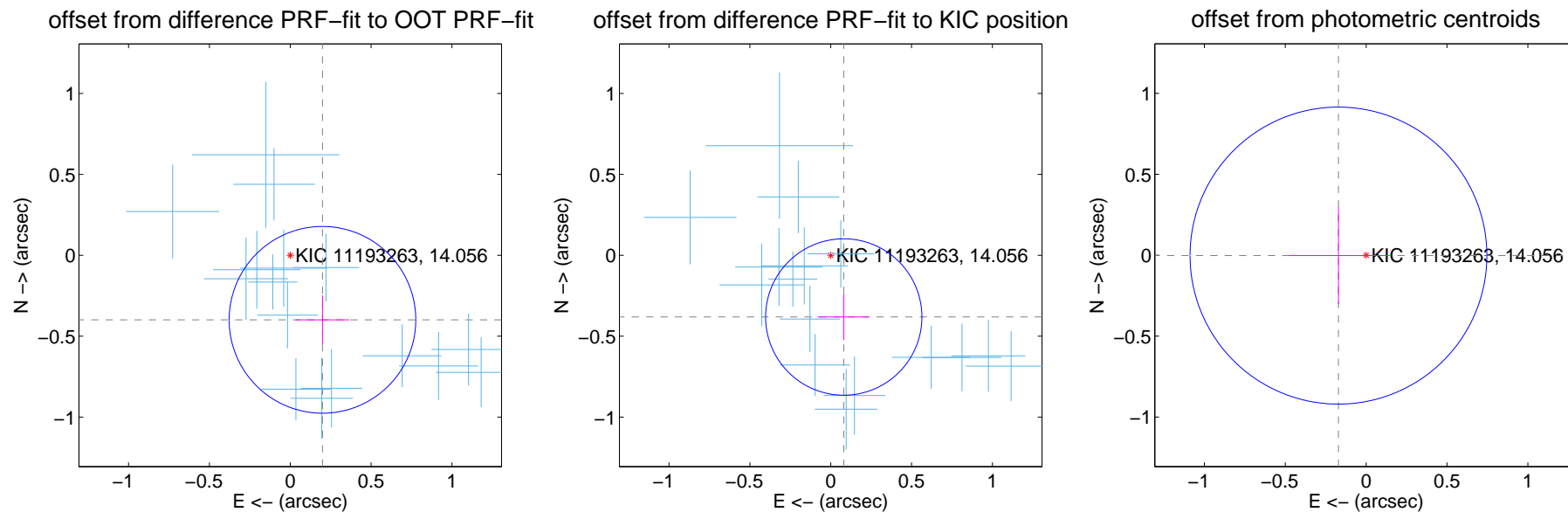
DV Centroid Data

Supplemental centroid analysis for 011193263-01. Kepler magnitude: 14.06. Transit SNR 36.02

There are 17 quarters with good PRF difference image offsets

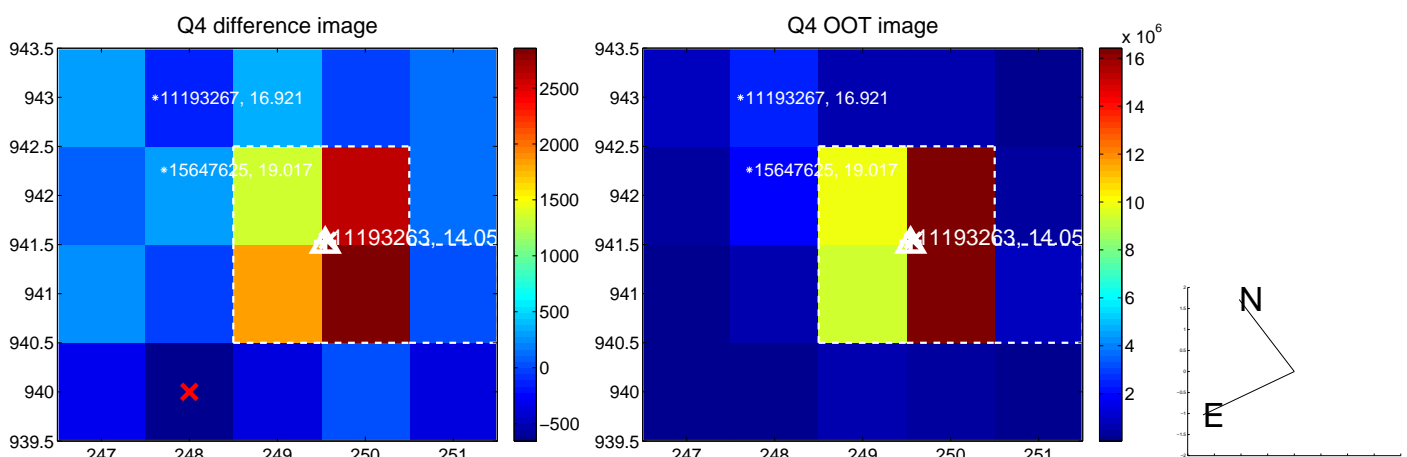
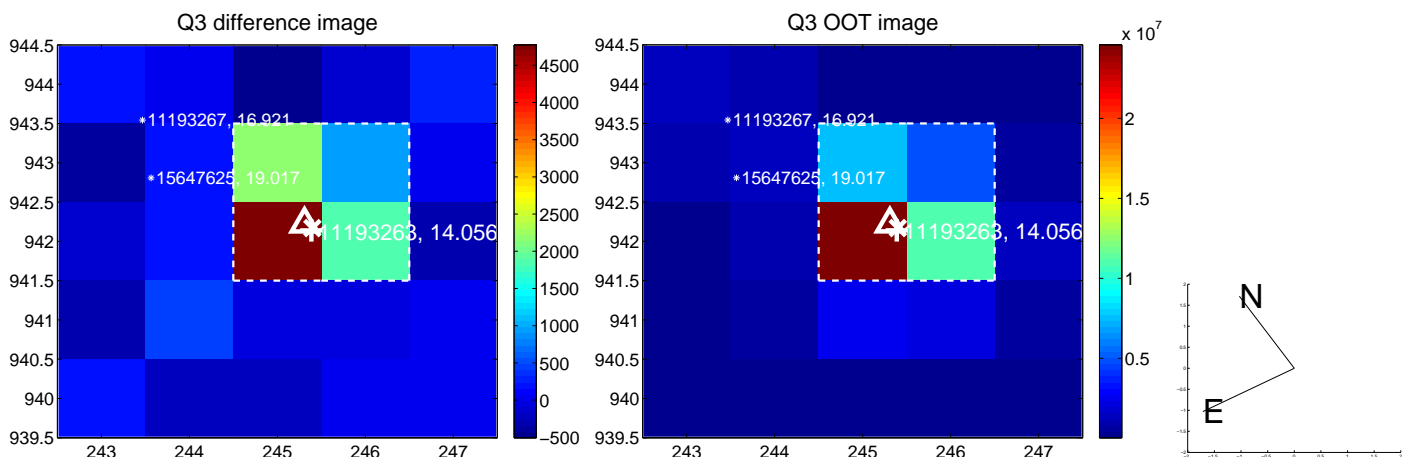
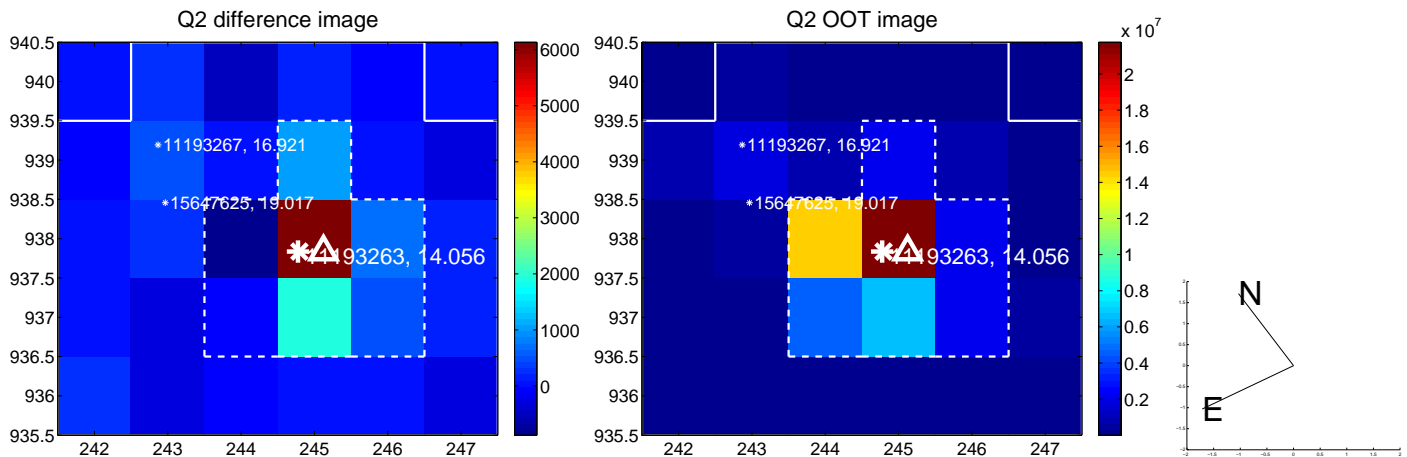
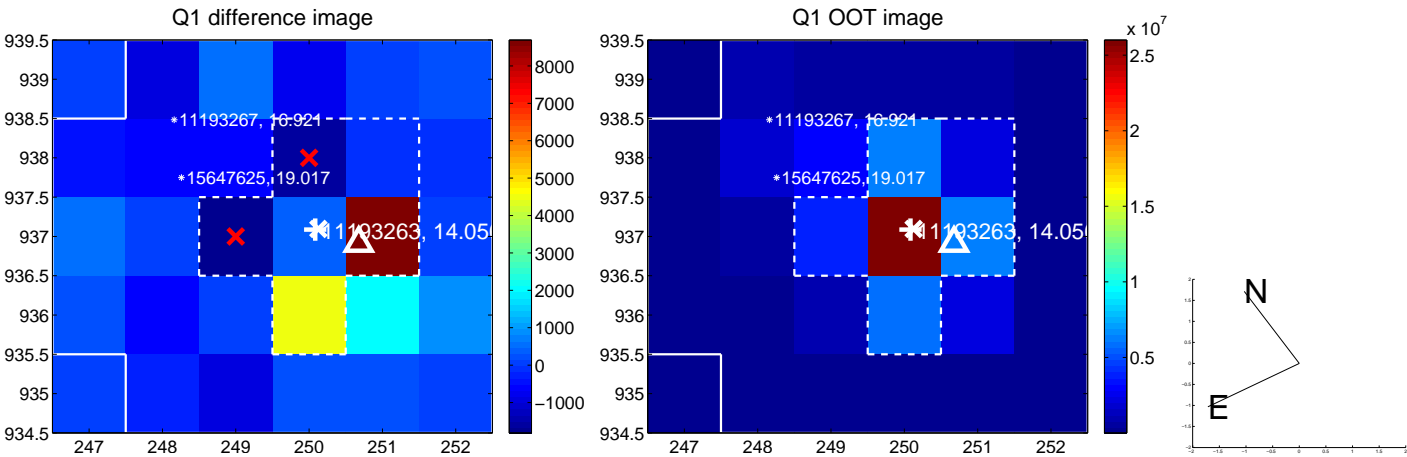
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.446 ± 0.192	2.32	-0.199 ± 0.166	-0.399 ± 0.152
PRF-fit source offset from KIC position	0.390 ± 0.161	2.42	-0.081 ± 0.159	-0.381 ± 0.143
photometric centroid source offset	0.17 ± 0.31	0.56	0.17 ± 0.31	-0.00 ± 0.30

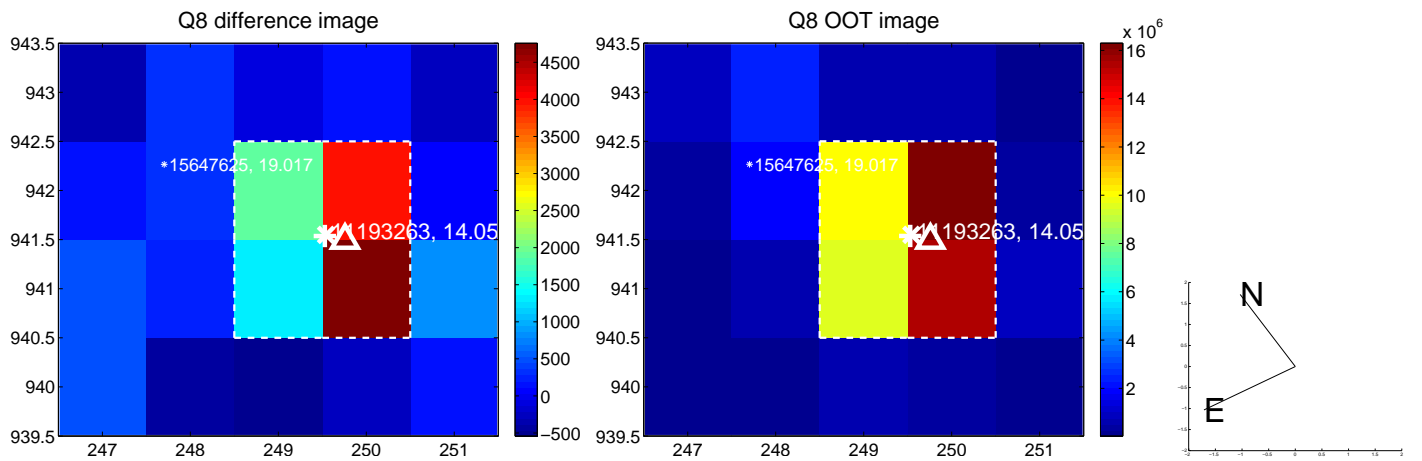
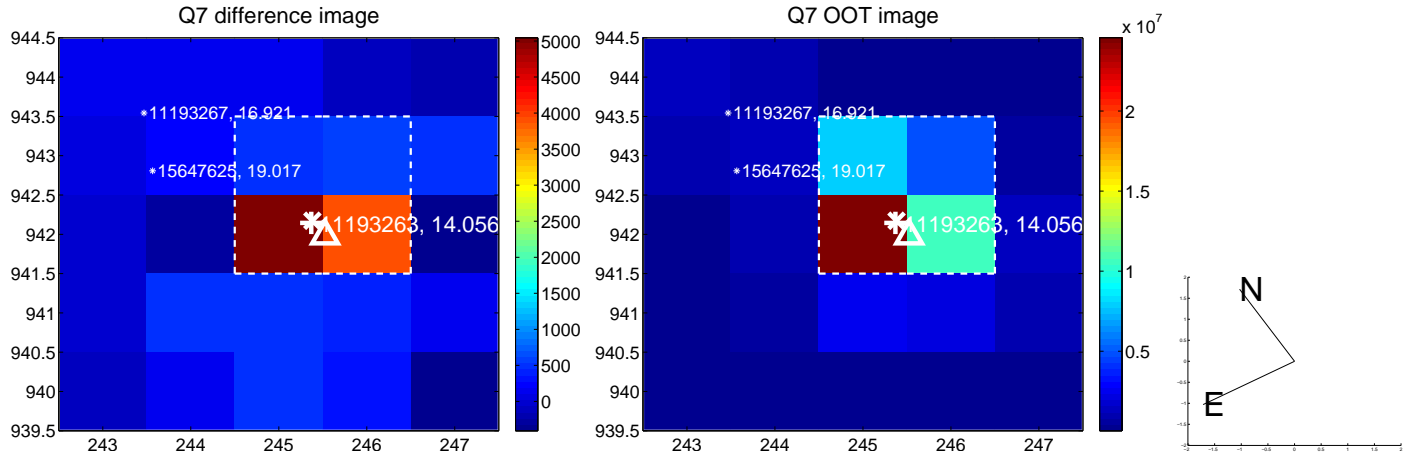
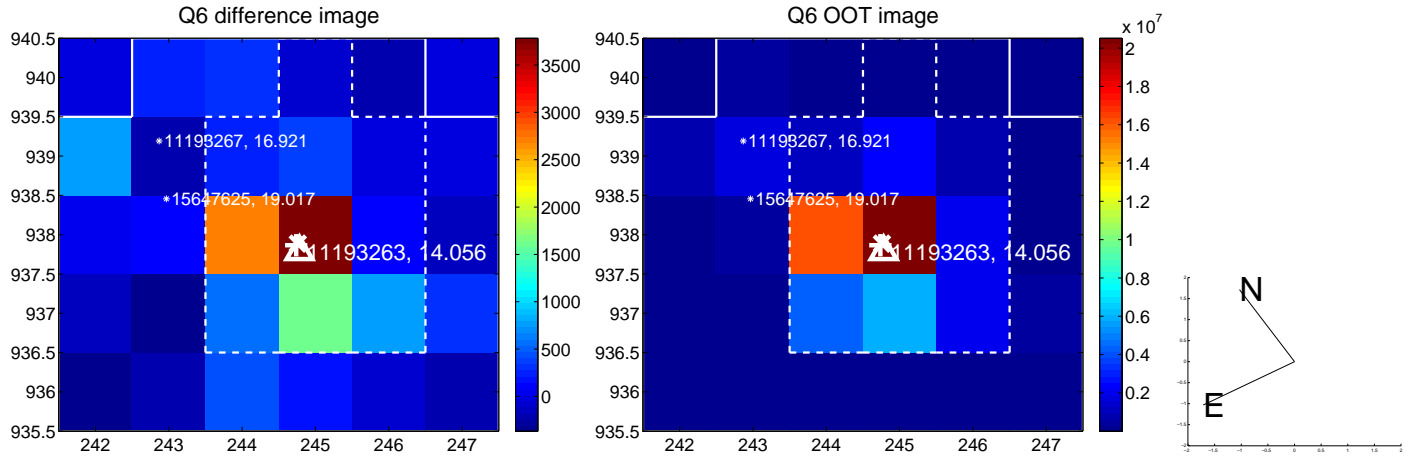
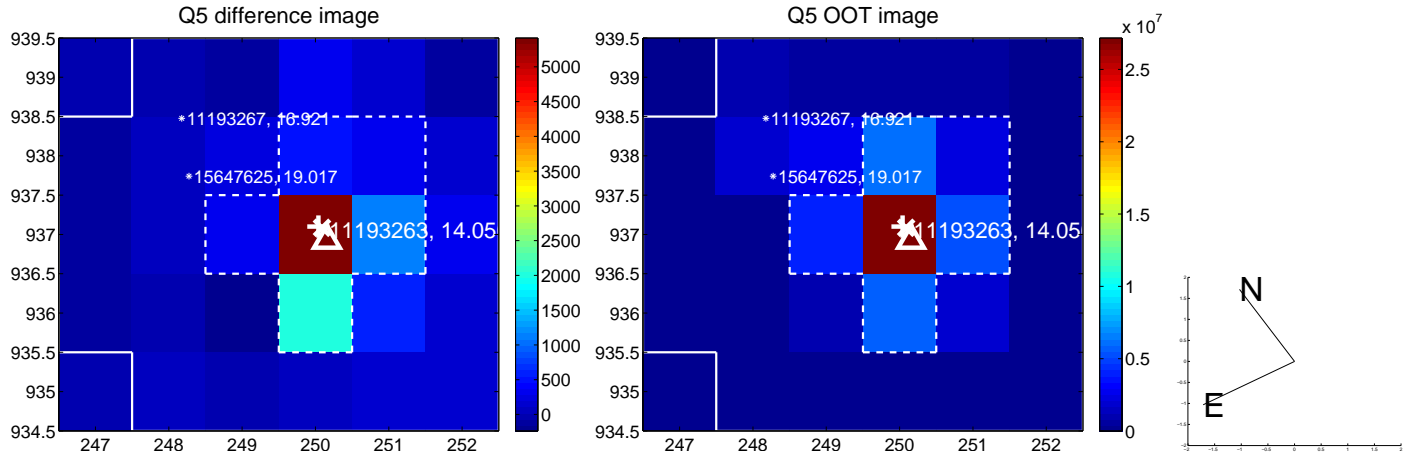


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

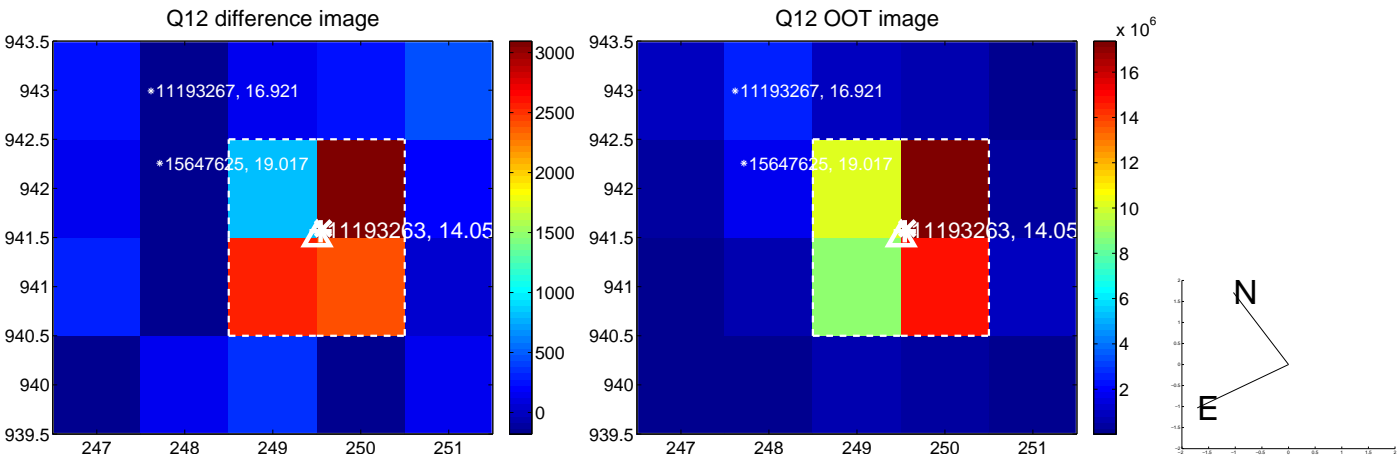
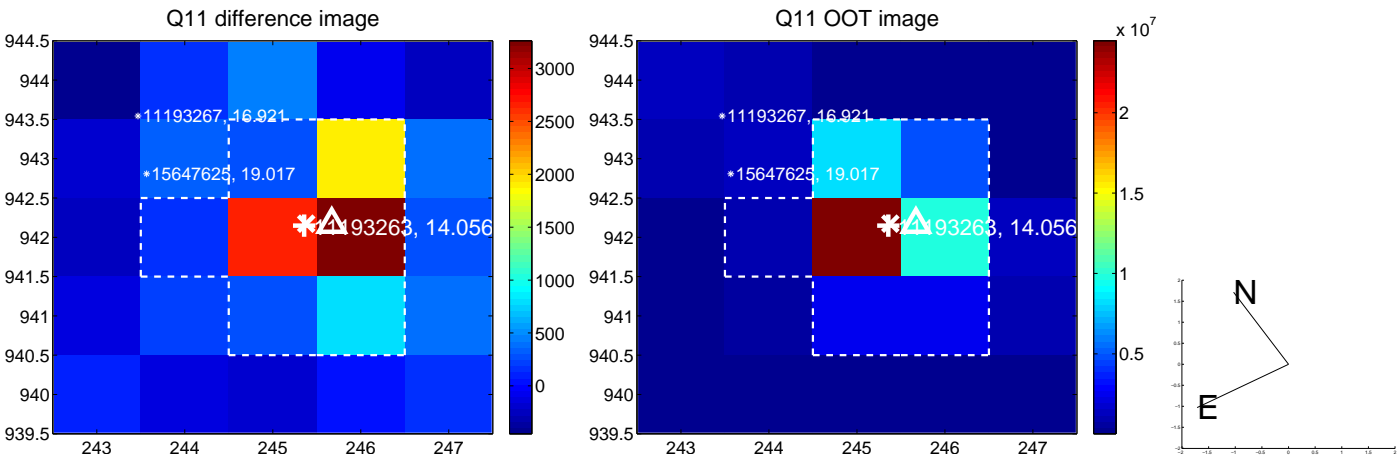
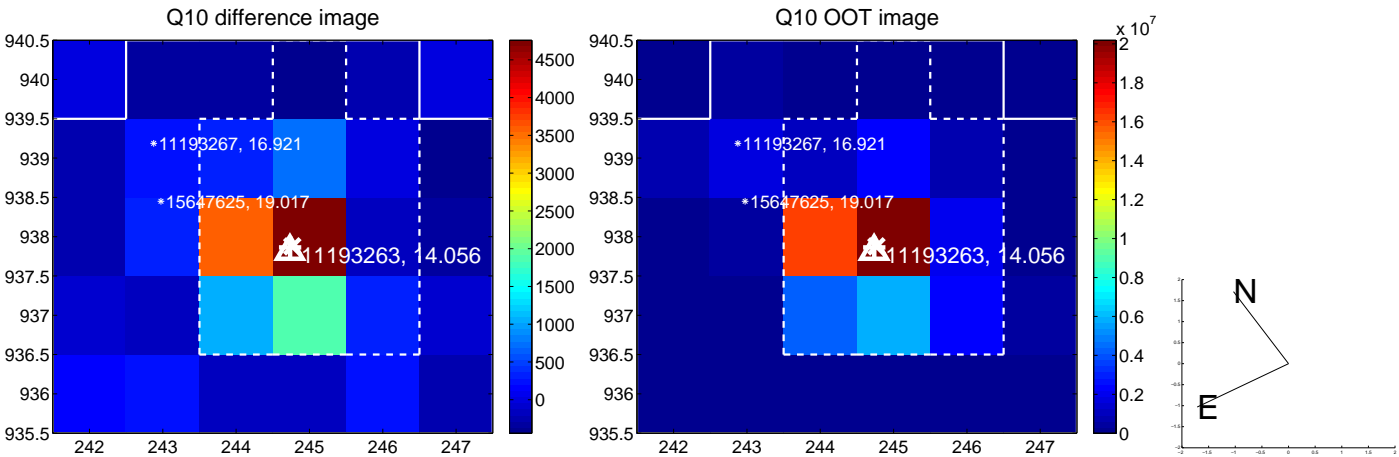
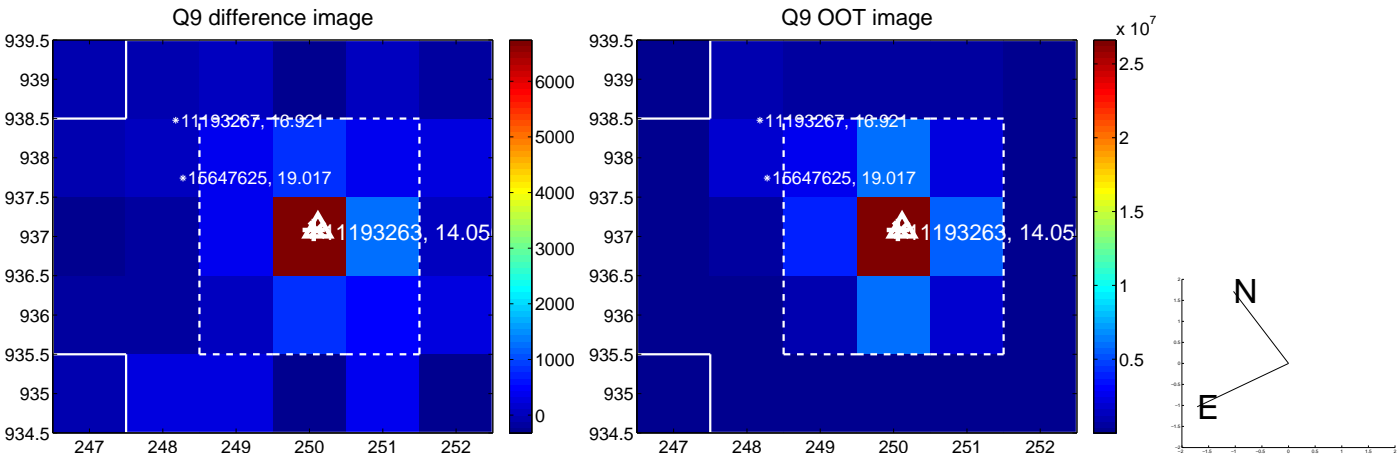
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



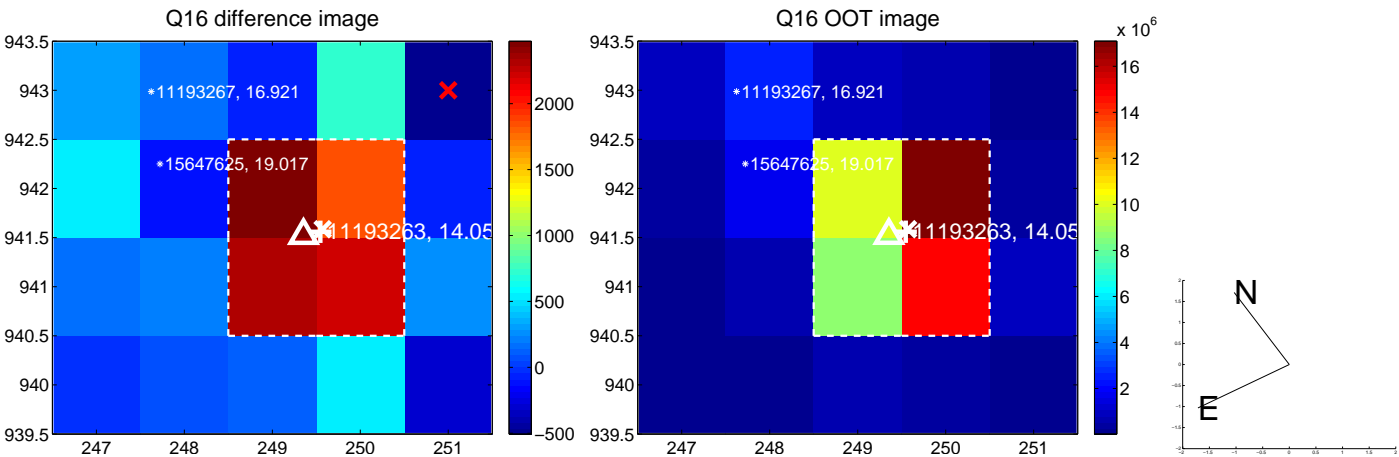
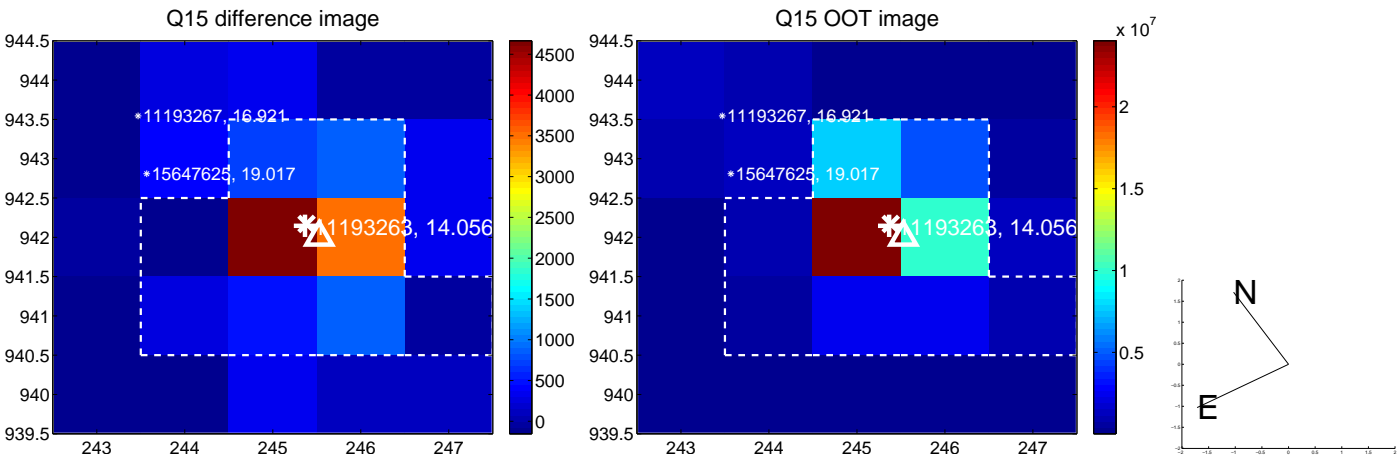
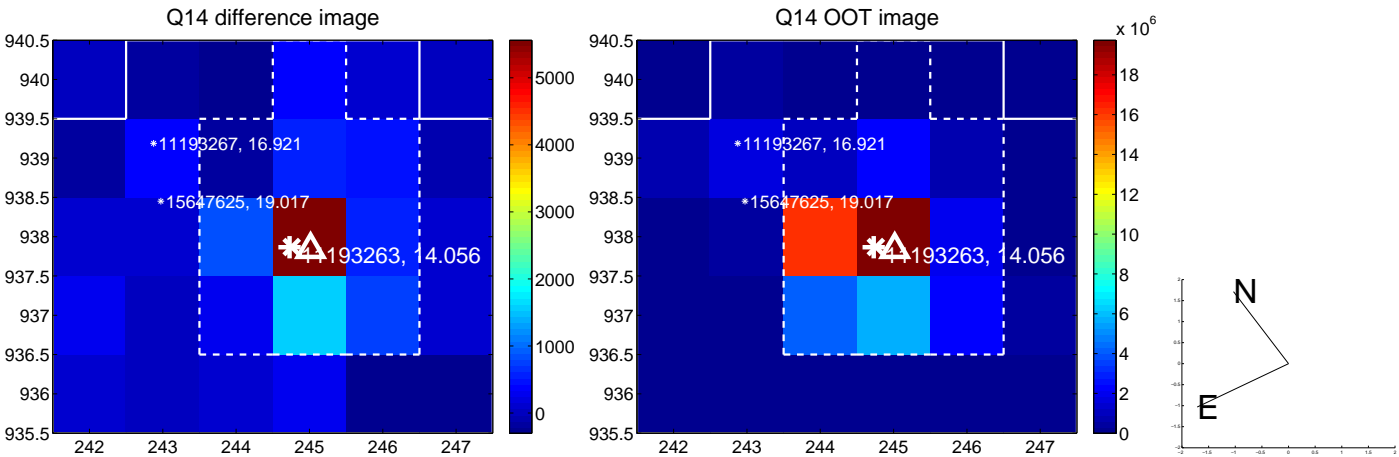
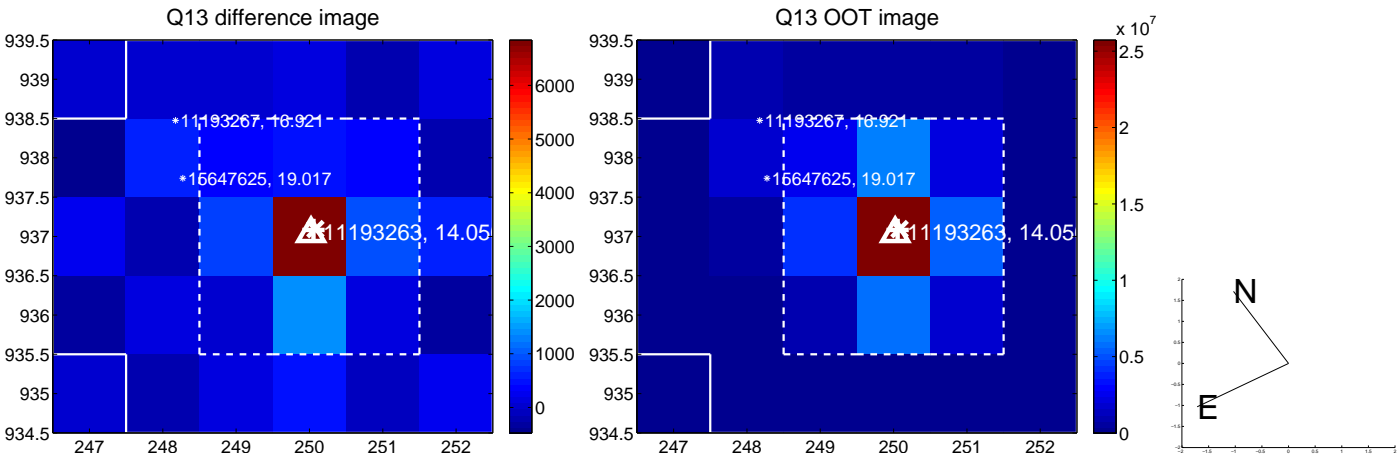
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



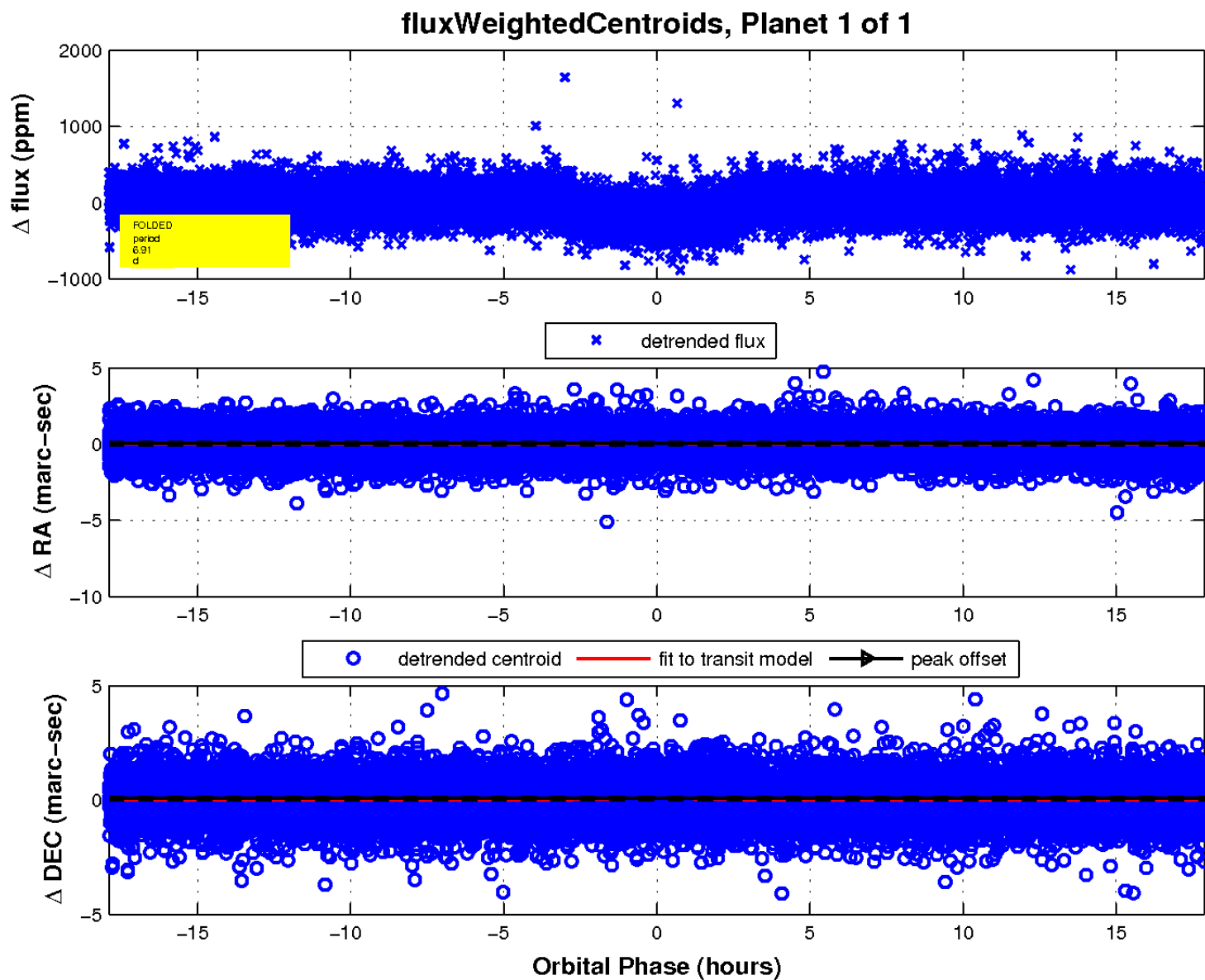
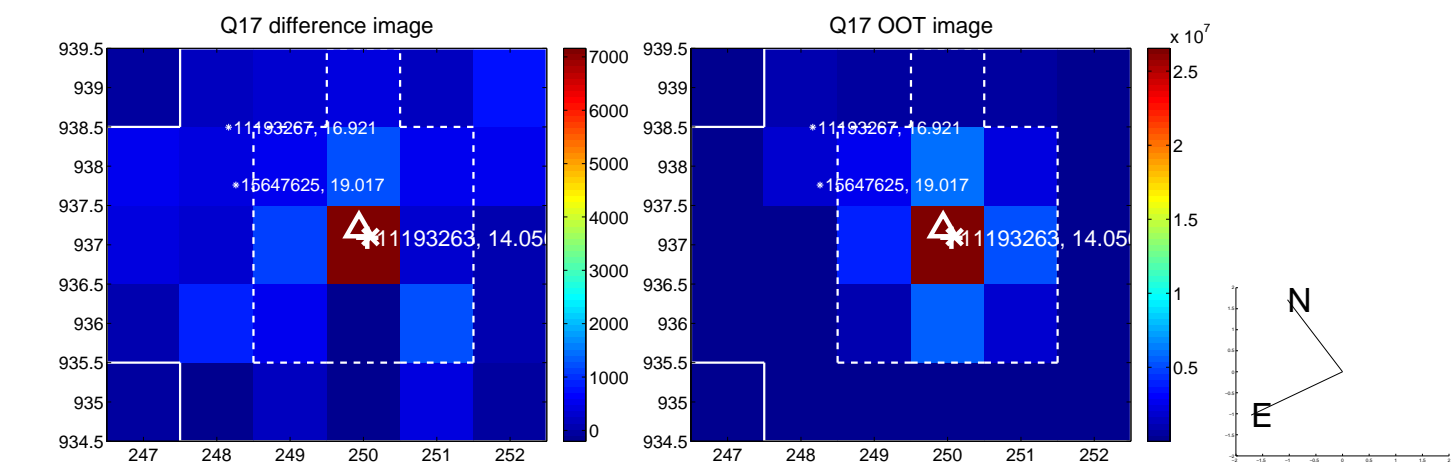
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UKIRT Image

Declination

