

KIC 008379283

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})
008379283-01	OBS	No	0.754324	131.552899	0.0	5.963	8.6	0.0	4.51	6993	0.00	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008379283-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT

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

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

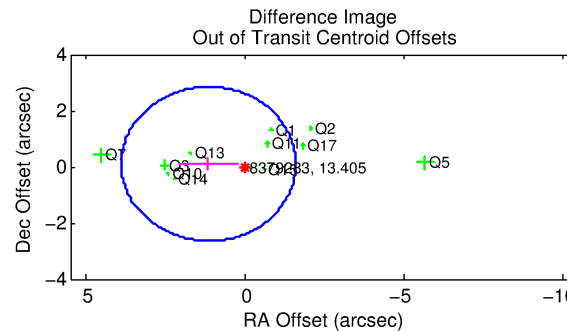
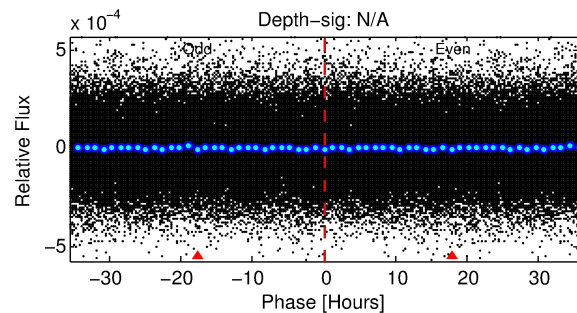
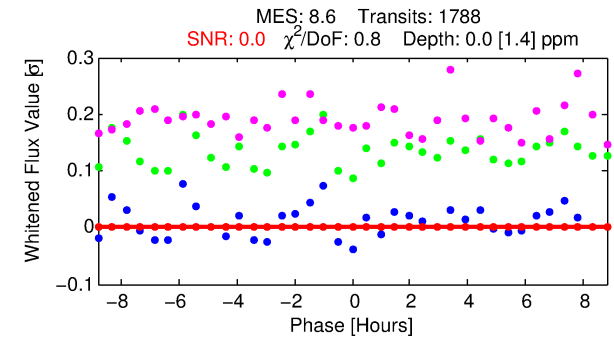
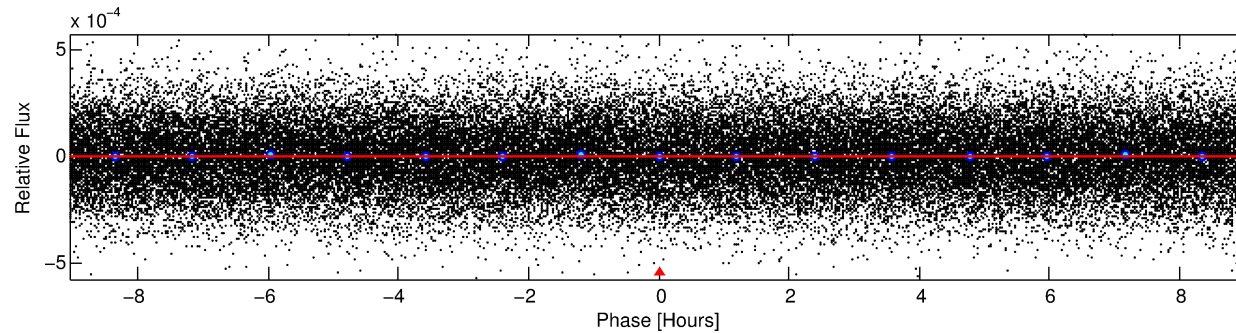
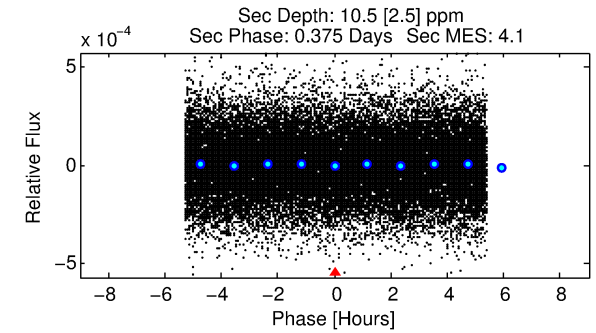
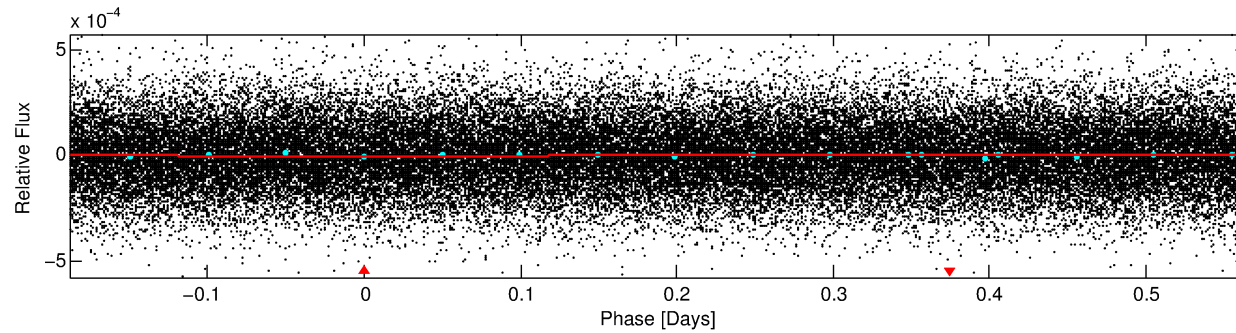
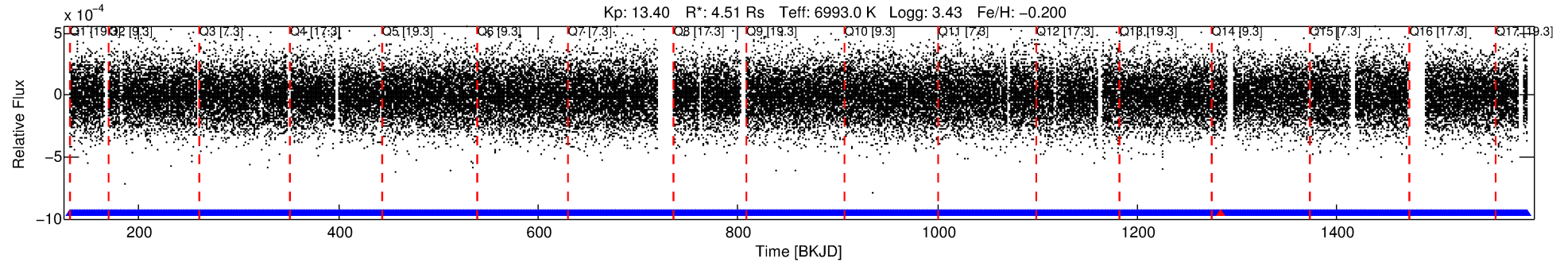
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008379283-01

No Significant Match Found

DV One-Page Summary

KIC: 8379283 Candidate: 1 of 1 Period: 0.754 d



DV Fit Results:

Period = 0.75432 [2.66287] d
Epoch = 131.5529 [1062.5442] BKJD
Rp/R* = 0.0000 [0.0892]
a/R* = 1.06 [323.59]
b = 0.80 [2915.69]
Seff = N/A
Teq = N/A
Rp = 0.00 [43.96] Re
a = N/A
Ag = N/A
Teffp = N/A

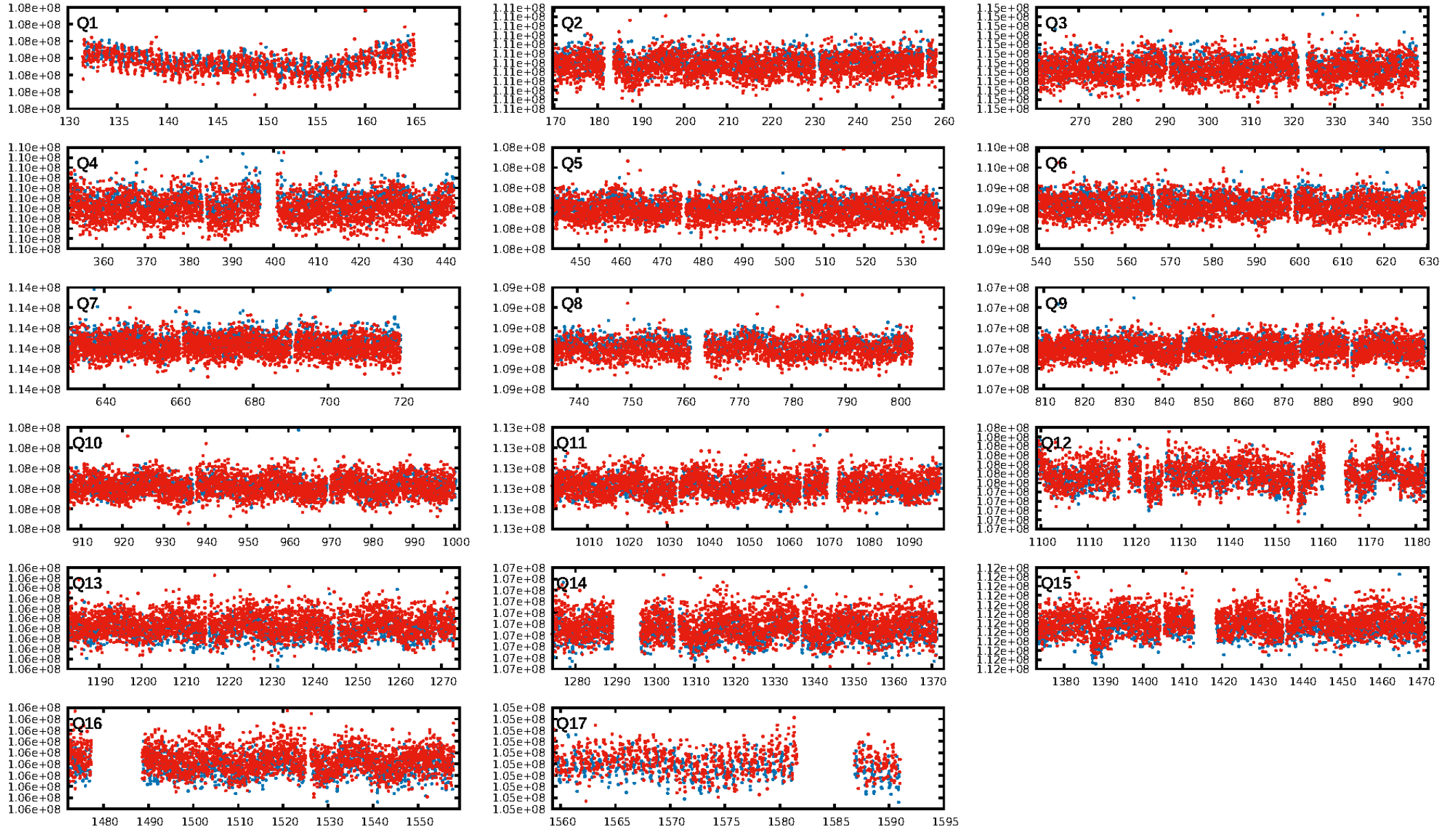
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1707/1708]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 1.157 arcsec [1.26σ]
KicOffset-rm: 1.091 arcsec [1.29σ]
OotOffset-st: 3/4/0/4 [11]
KicOffset-st: 3/4/0/4 [11]
DiffImageQuality-fgm: 0.27 [3/11]
DiffImageOverlap-fno: 1.00 [17/17]

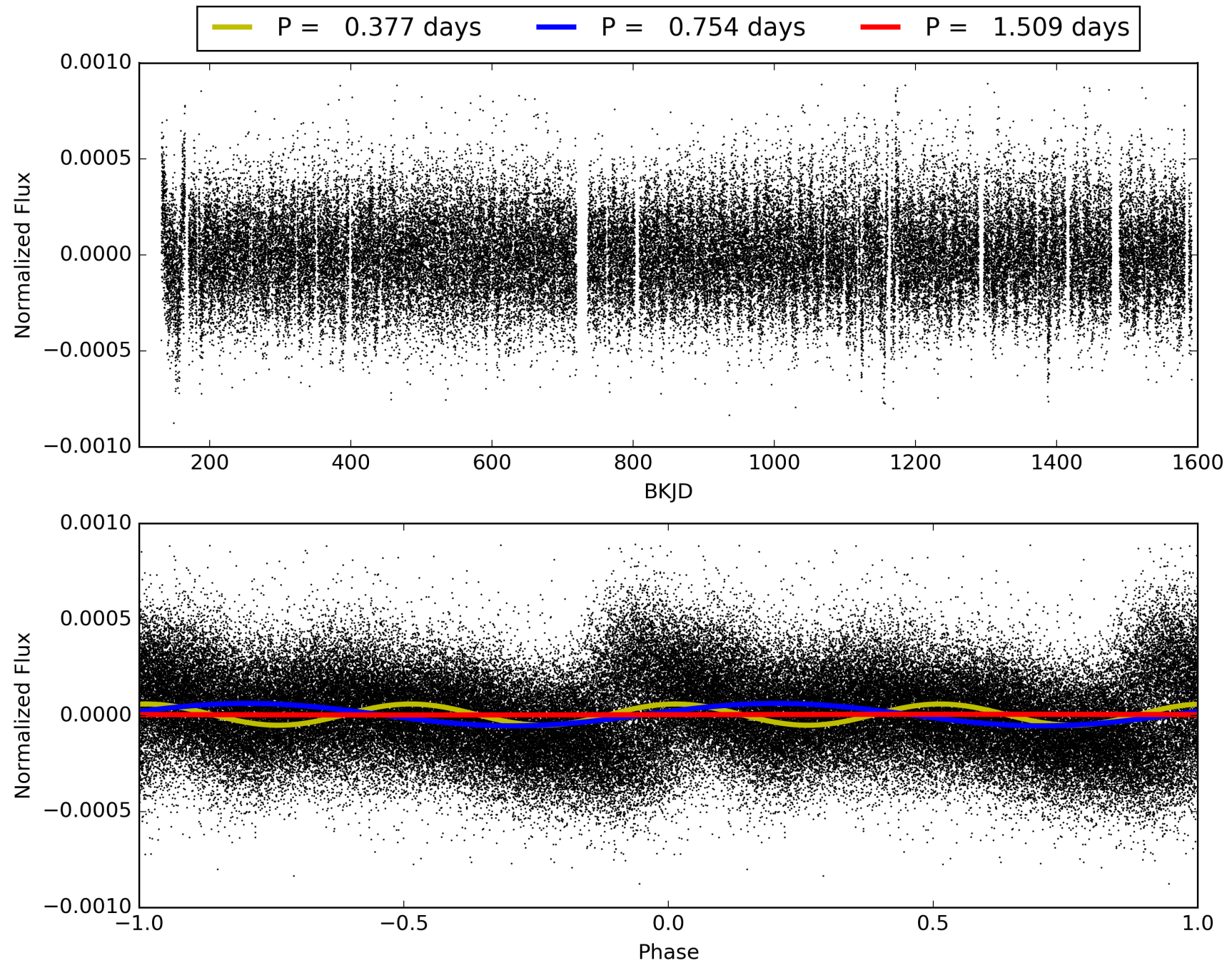
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 16:37:10 Z

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

TCE 008379283-01, PDC Light Curves

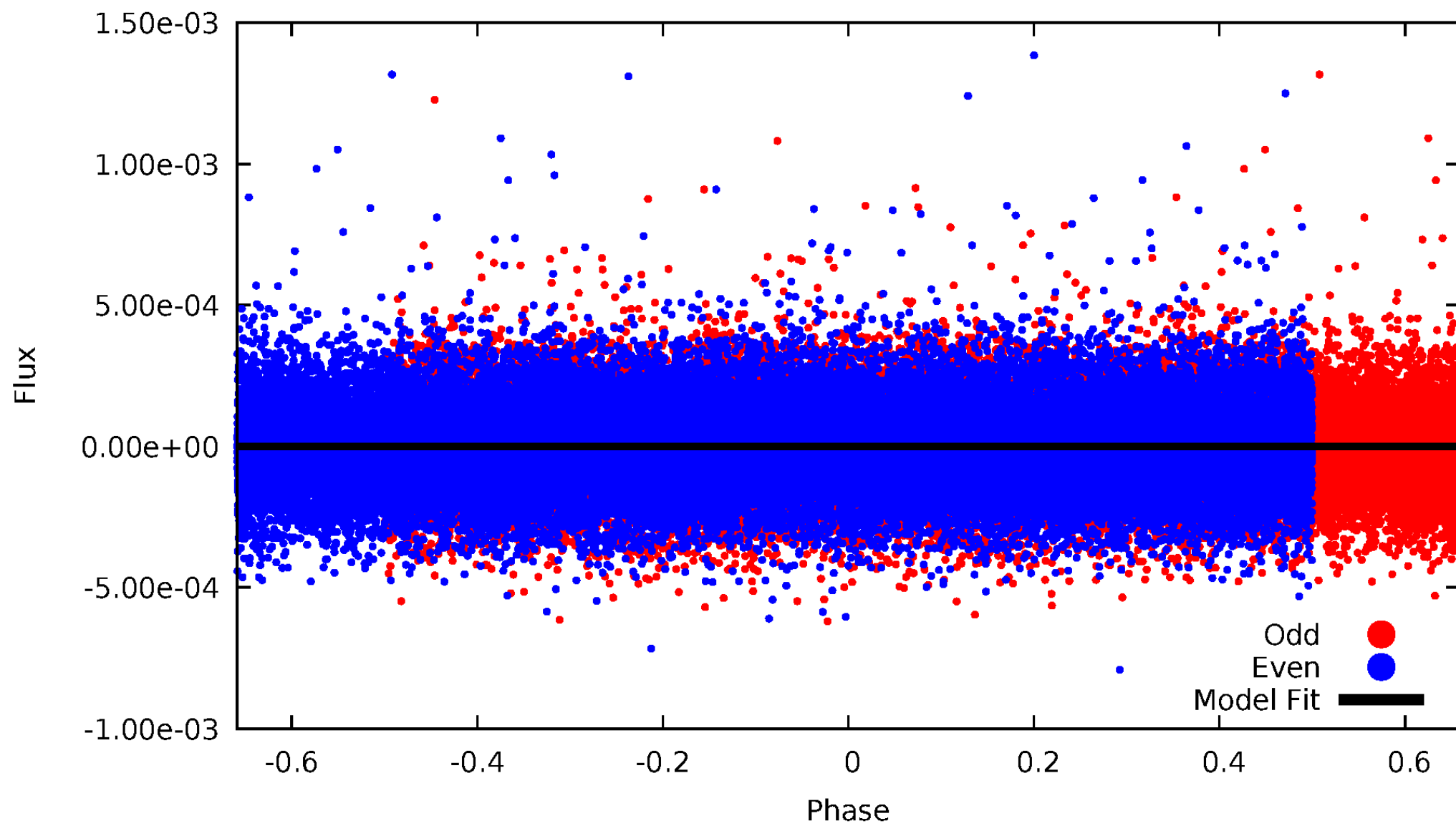


TCE 008379283-01



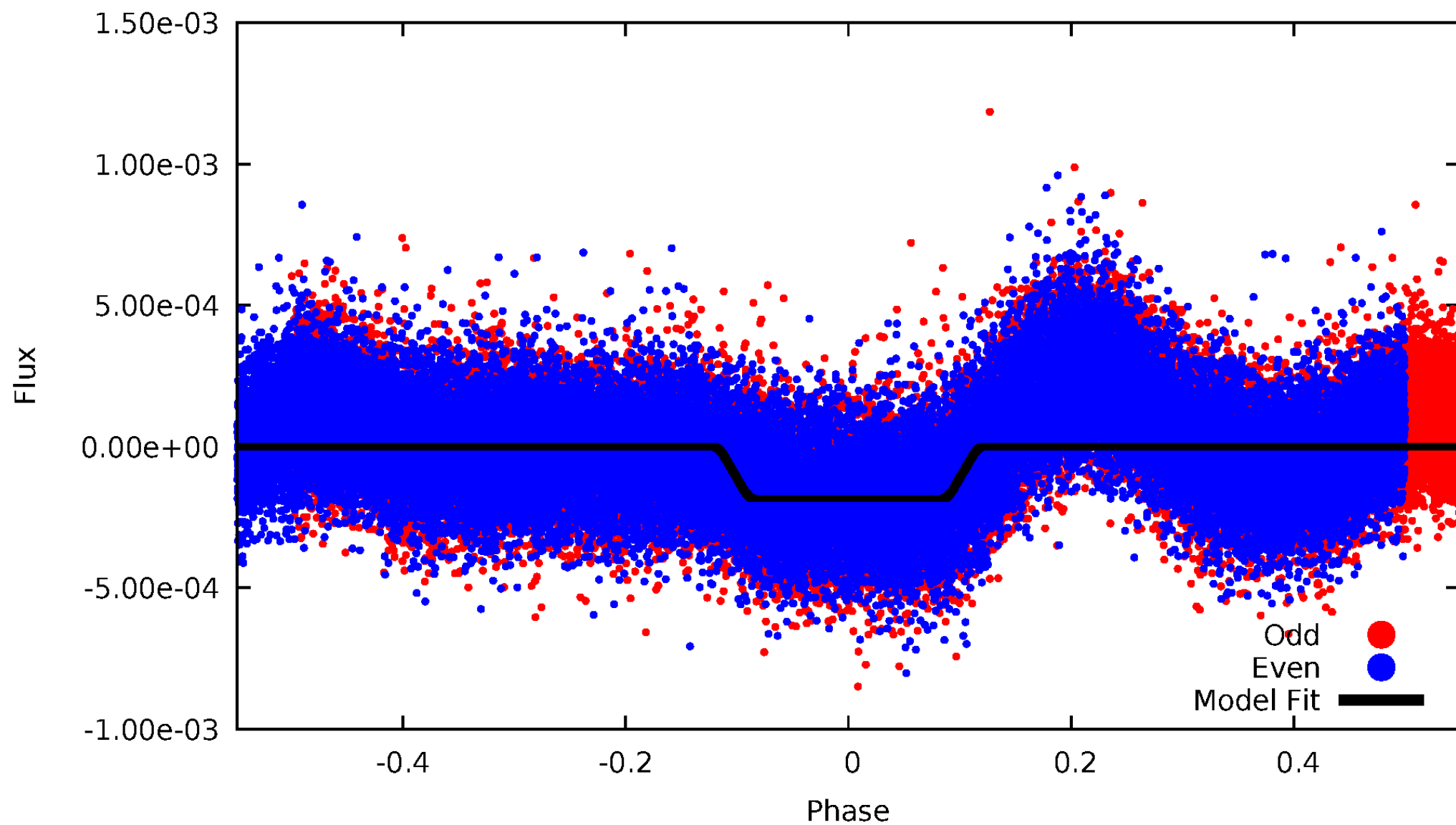
DV Odd/Even

TCE 008379283-01



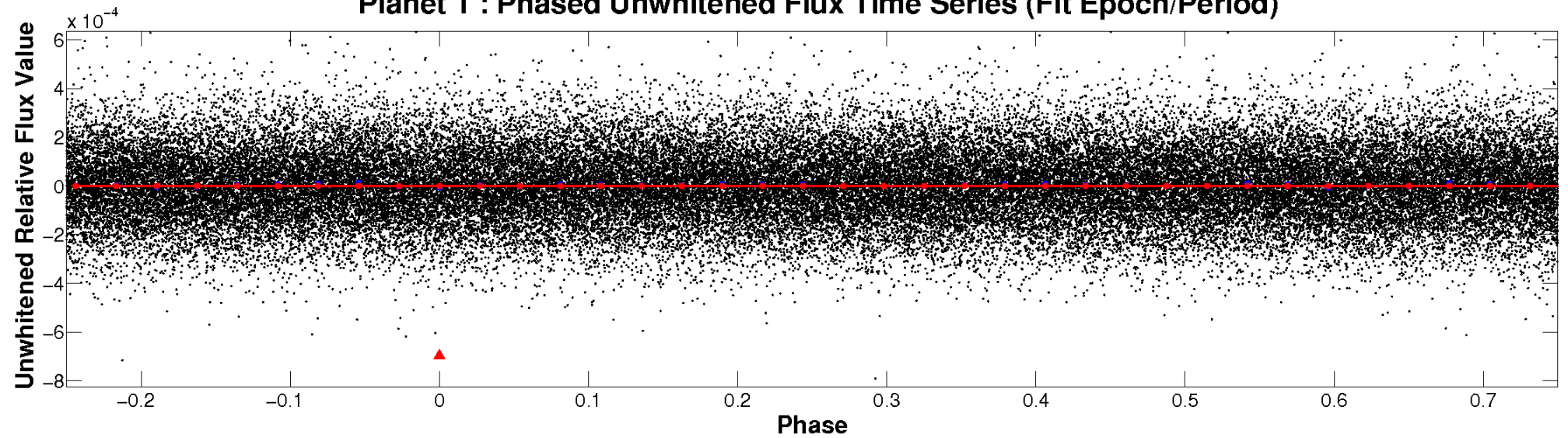
ALT Odd/Even

TCE 008379283-01

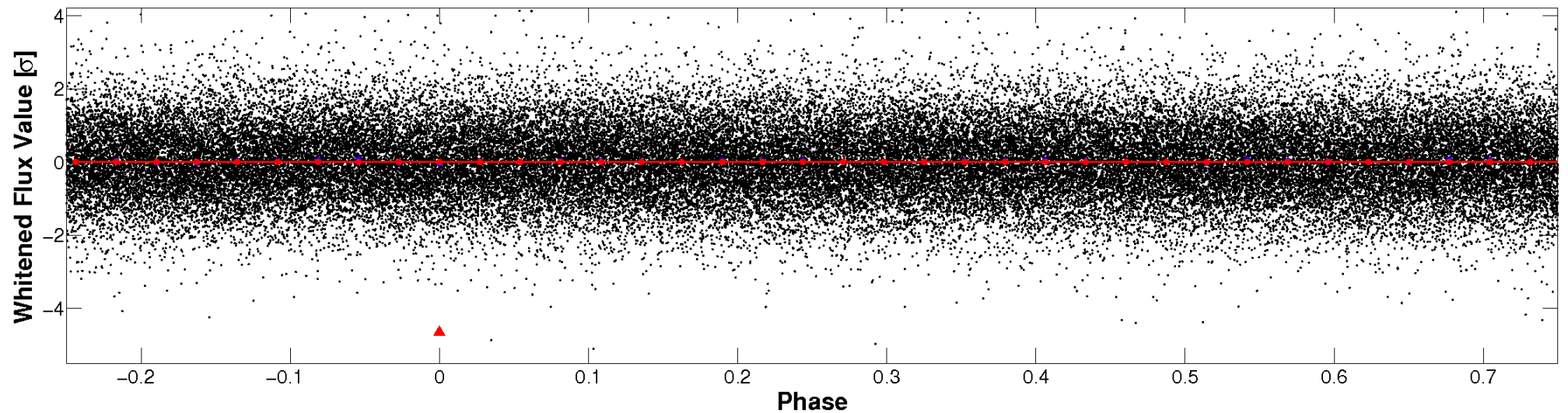


Non-Whitened Vs. Whitened Light Curve

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

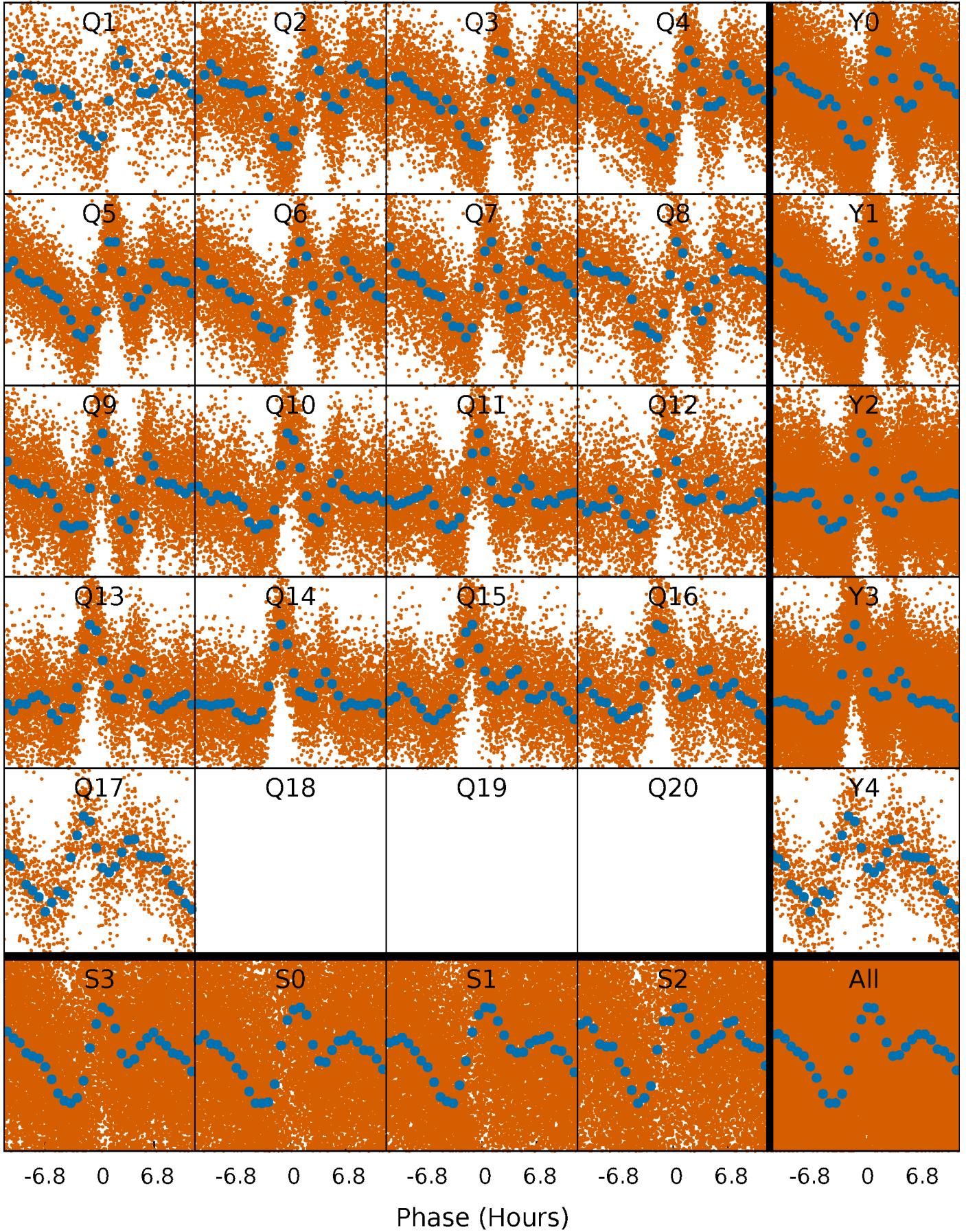


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



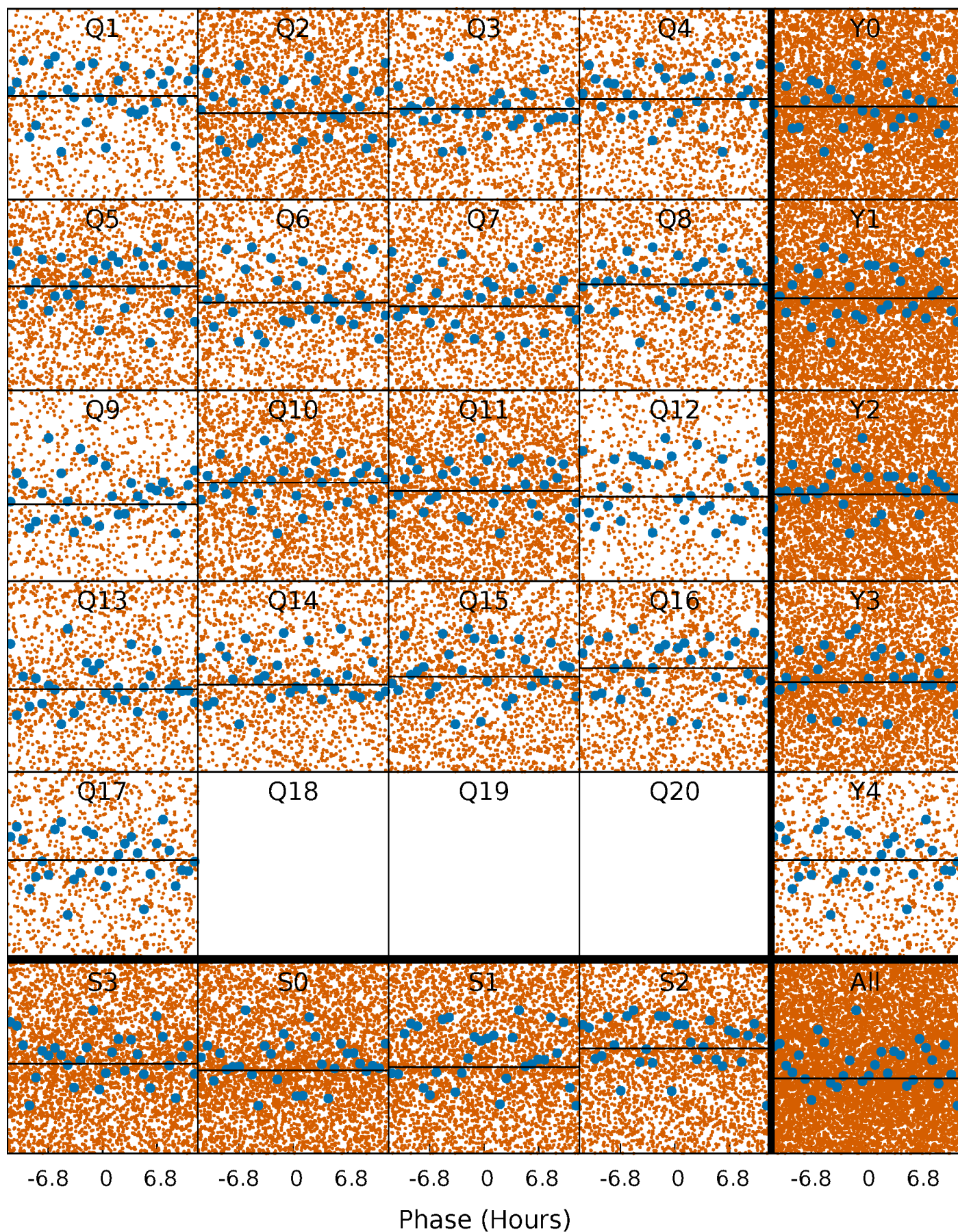
PDC Quarter-Phased Transit Curves

TCE 008379283-01 P= 0.754324 Days $T_0=131.552899$ (BKJD)



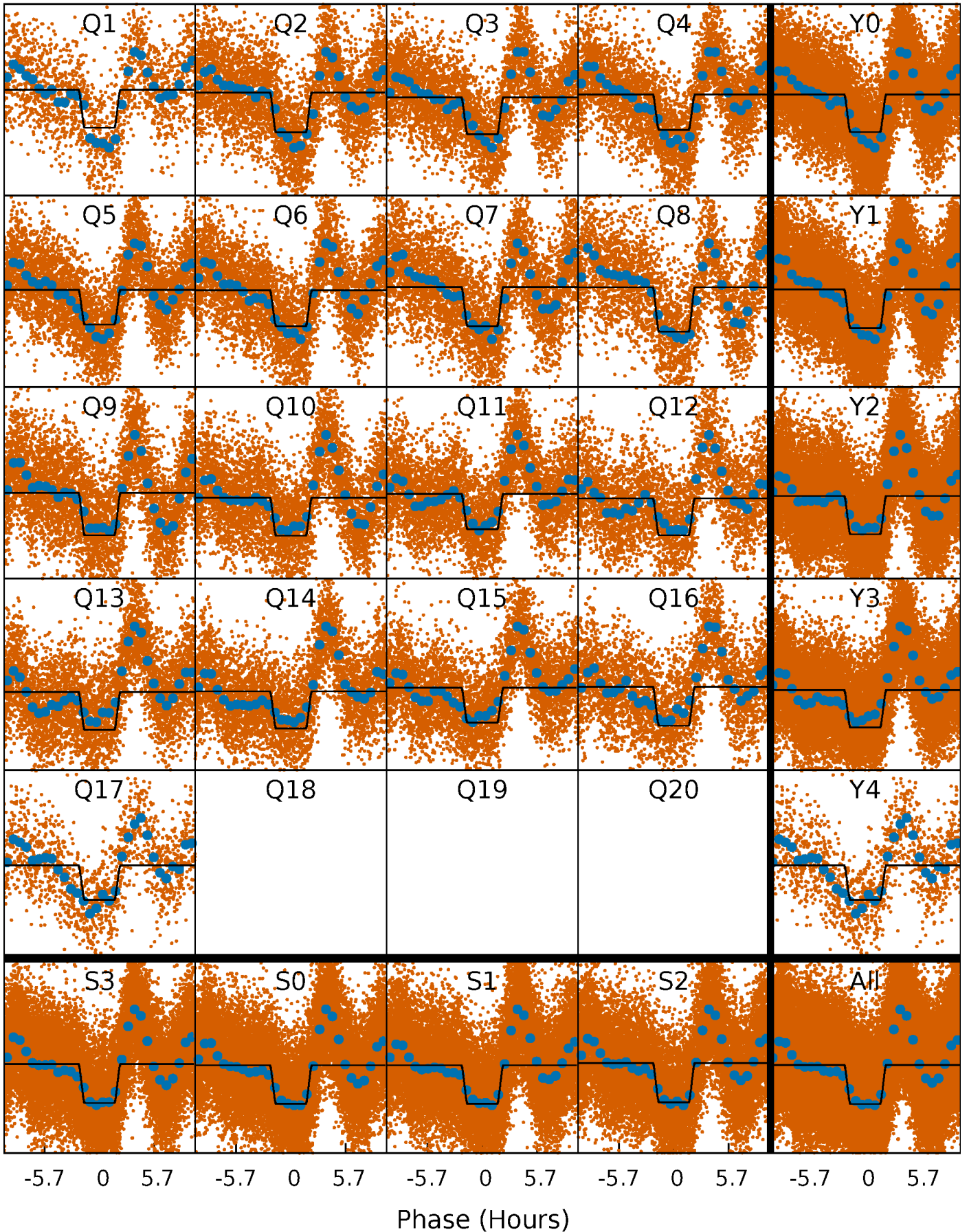
DV Quarter-Phased Transit Curves

TCE 008379283-01 P= 0.754324 Days $T_0=131.552899$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

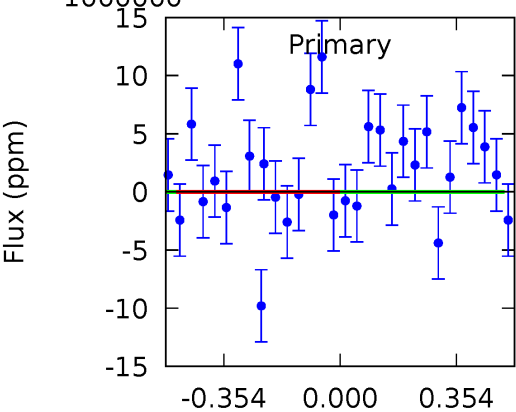
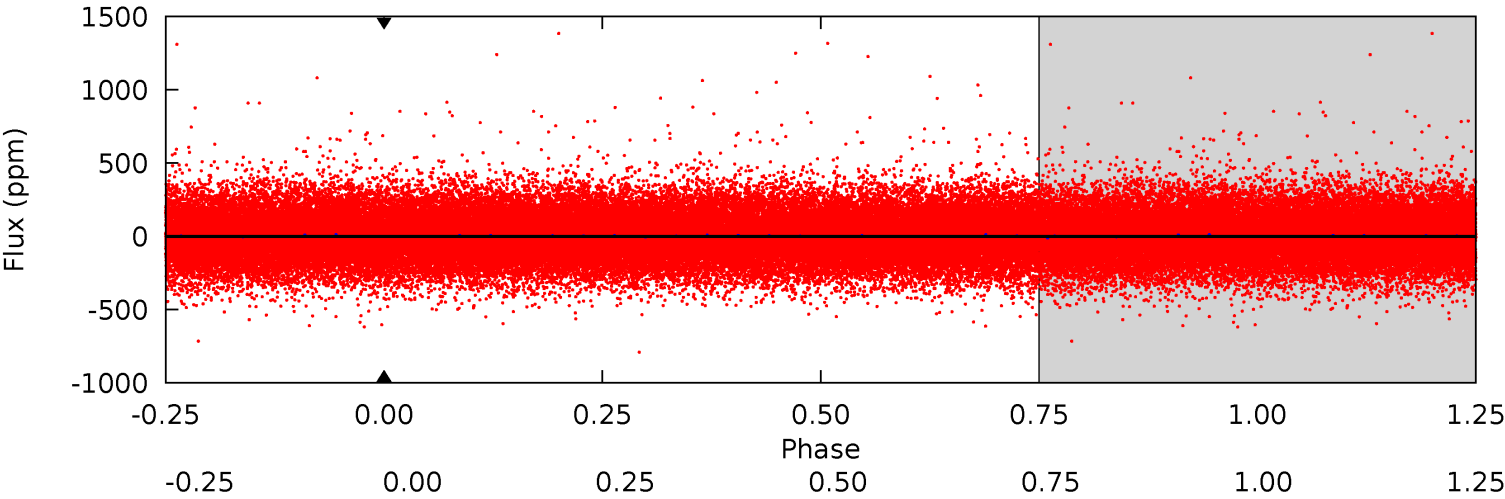
TCE 008379283-01 P= 0.754221 Days $T_0=131.507141$ (BKJD)



DV Model-Shift Uniqueness Test

008379283-01, P = 0.754324 Days, E = 130.798575 Days

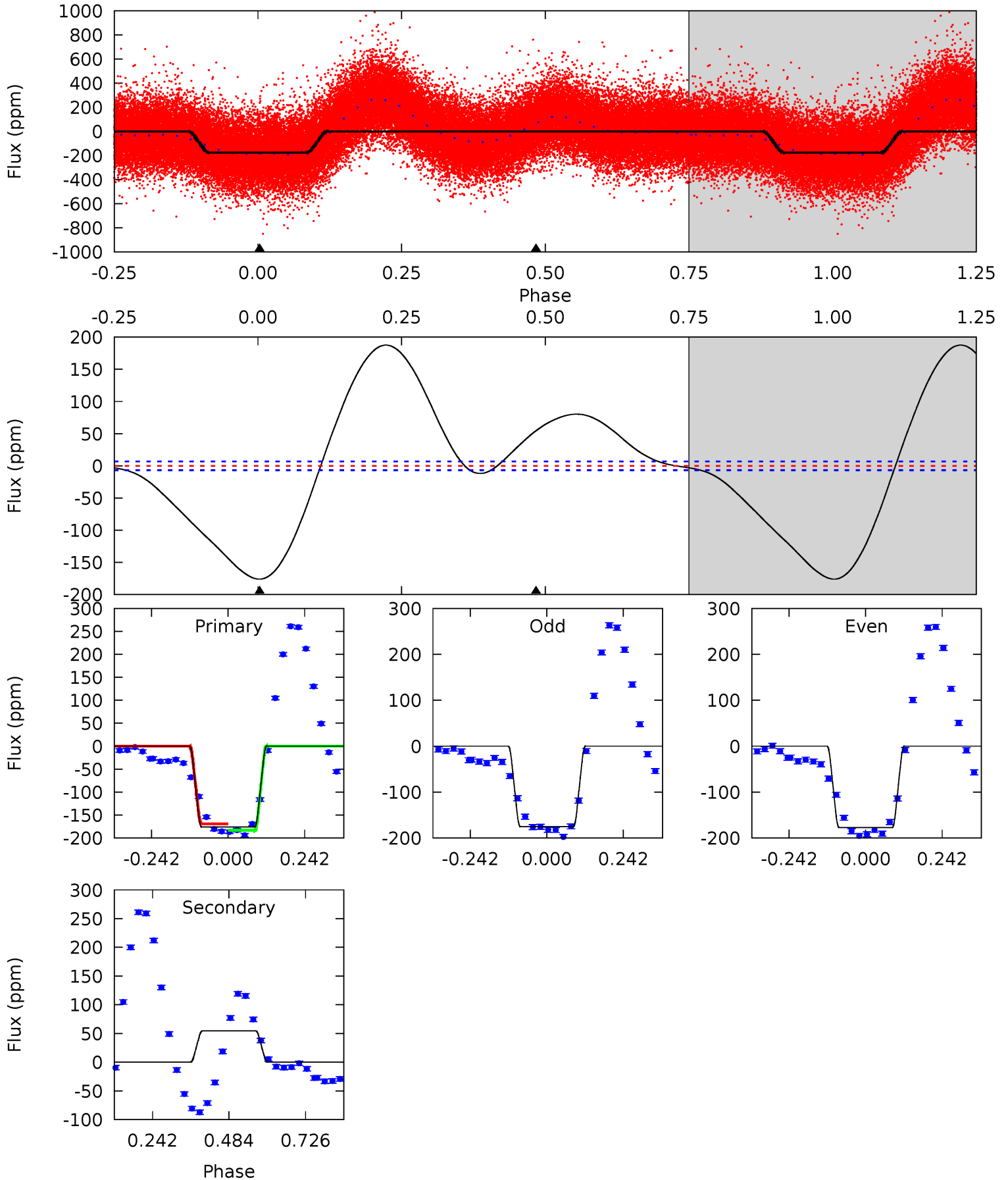
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

008379283-01, P = 0.754221 Days, E = 131.507141 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
112.5	-34.8	0	0	4.38	1.17	53.5	112.5	112.5	-34.8	-34.8	0.65	1.00	0.52	4.18



Stellar Parameters For KIC 008379283

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6993^{+169}_{-266}	$3.432^{+0.357}_{-0.063}$	$-0.200^{+0.300}_{-0.250}$	$4.514^{+0.316}_{-1.792}$	$2.012^{+0.089}_{-0.402}$	$0.031^{+0.081}_{-0.006}$
	+2%/-4%	+10%/-2%	+150%/-125%	+7%/-40%	+4%/-20%	+263%/-20%
Source	PHO1	FLK73	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 008379283-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$26.27^{+31.58}_{-18.42}$	4353^{+2063}_{-984}	-5923^{+55600}_{-37314}	$-0.034^{+219.952}_{-229.711}$
Alt.	54 ± 2	$30.69^{+32.25}_{-20.94}$	4412^{+2085}_{-1001}	-4298^{+730}_{-1879}	$-0.047^{+0.041}_{-0.449}$

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

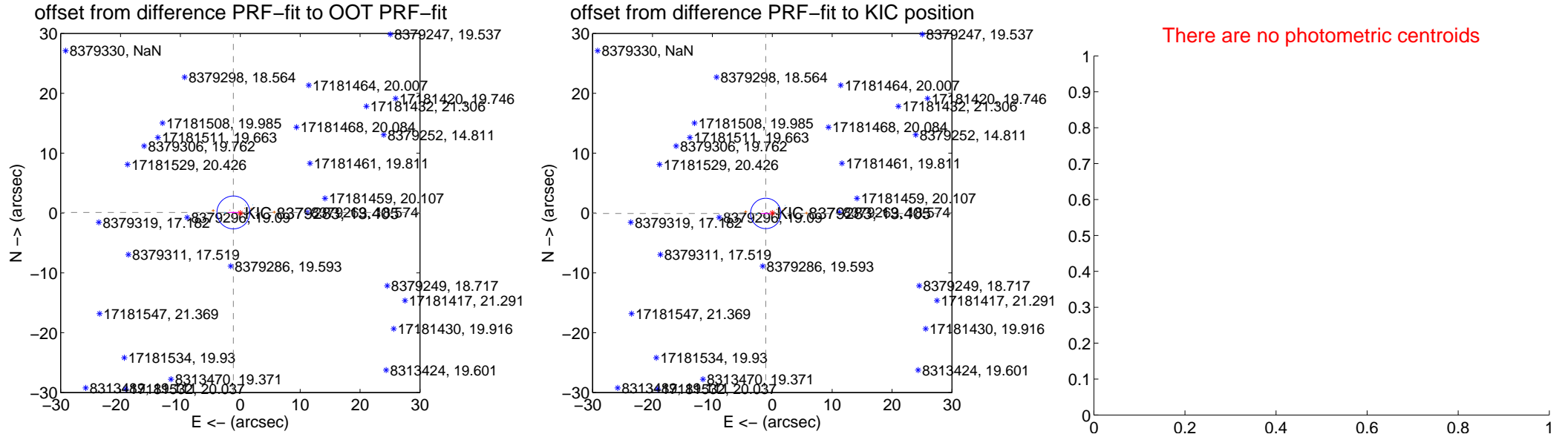
DV Centroid Data

Supplemental centroid analysis for 008379283-01. Kepler magnitude: 13.40. Transit SNR 0.00

There are 3 quarters with good PRF difference image offsets

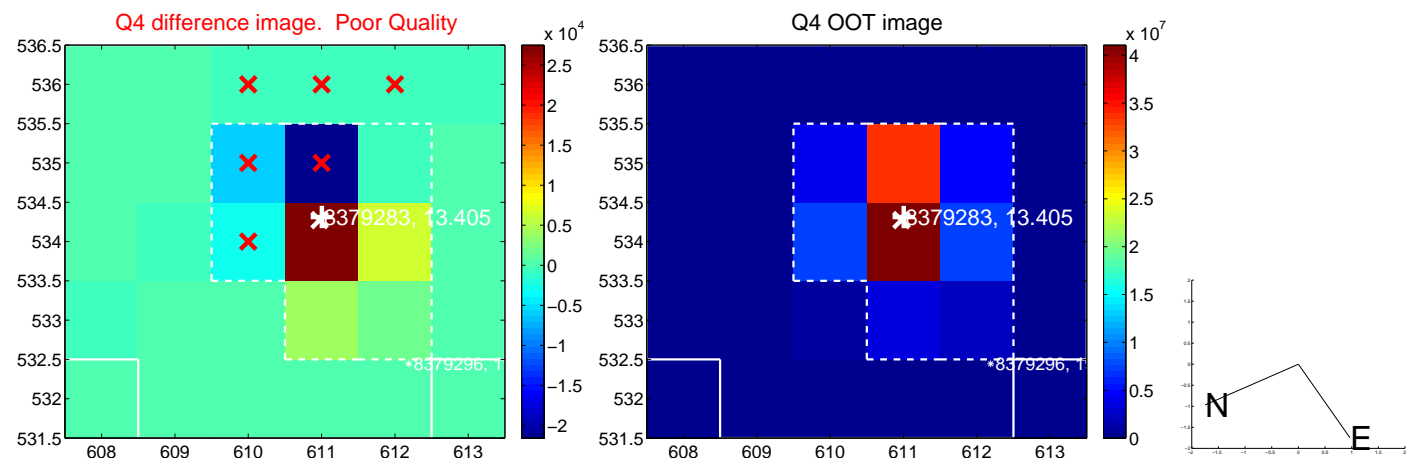
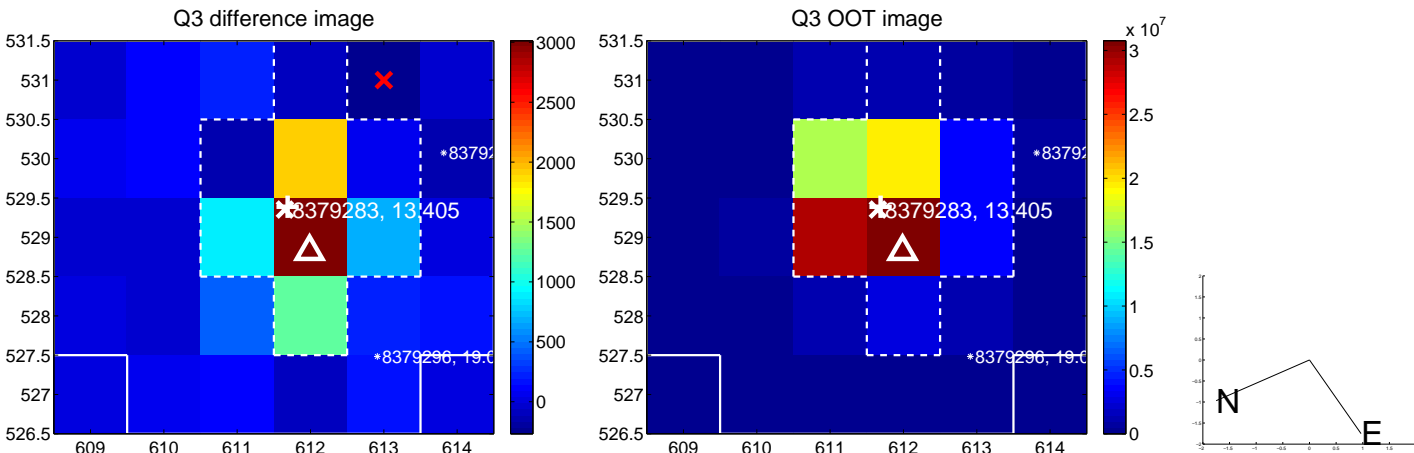
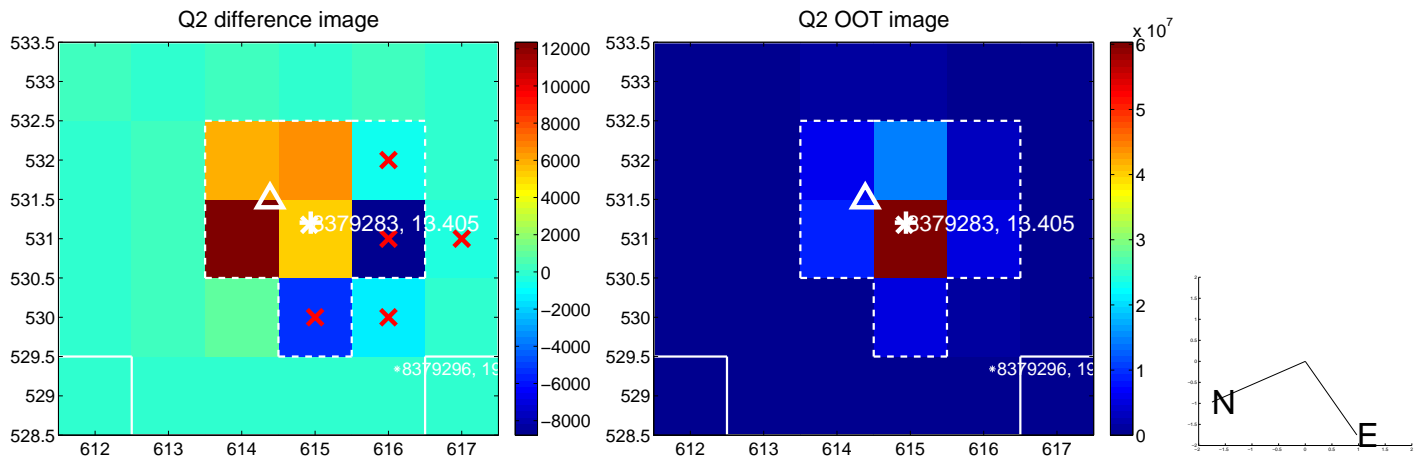
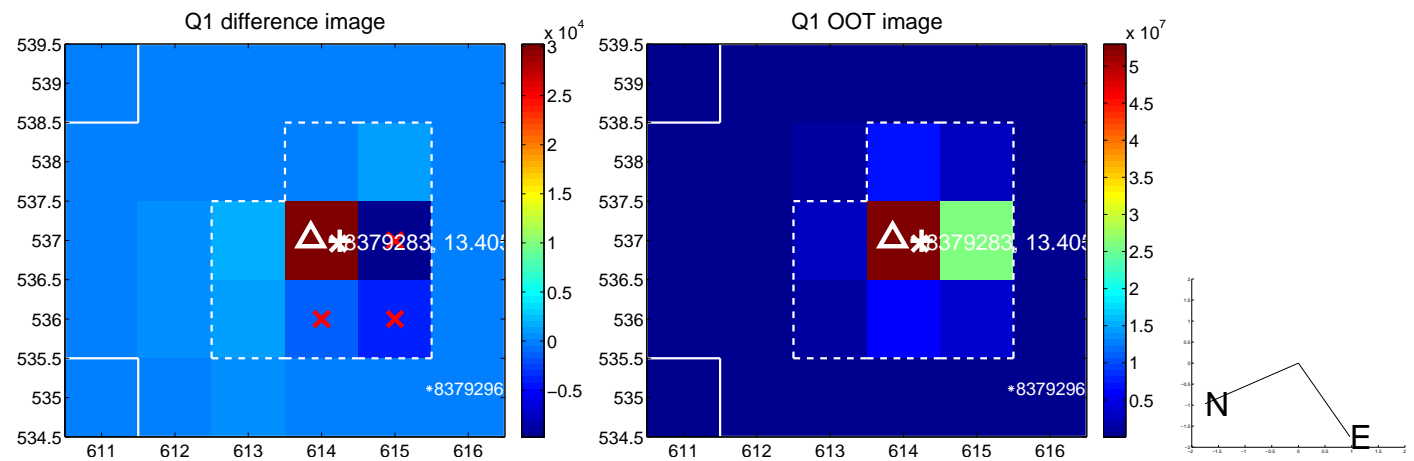
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.157 ± 0.915	1.26	1.153 ± 0.923	0.096 ± 0.181
PRF-fit source offset from KIC position	1.091 ± 0.846	1.29	1.089 ± 0.841	-0.072 ± 0.186
photometric centroid source offset	—	—	—	—

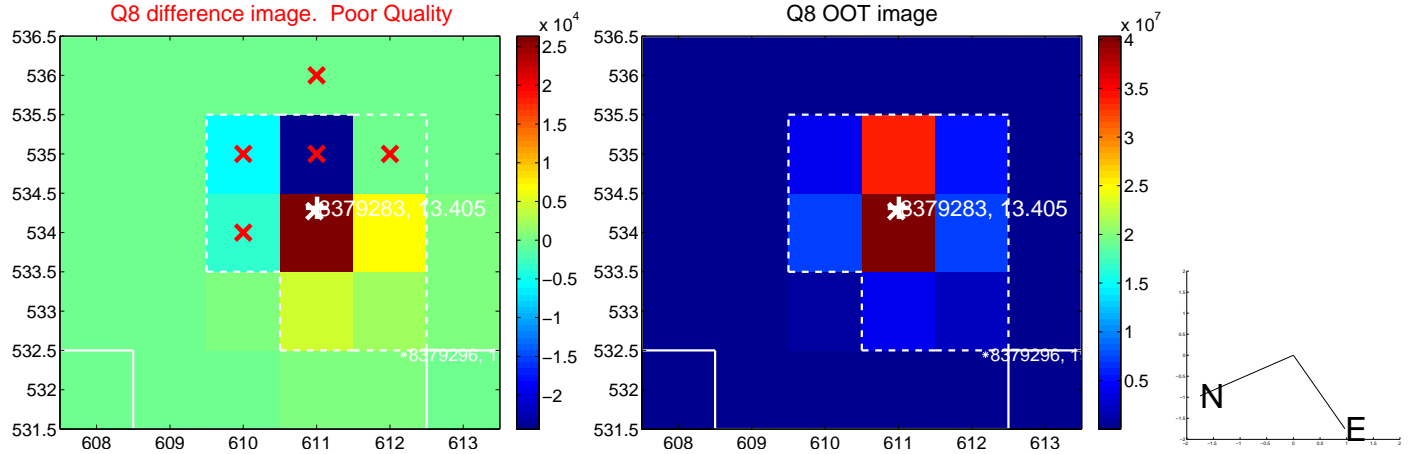
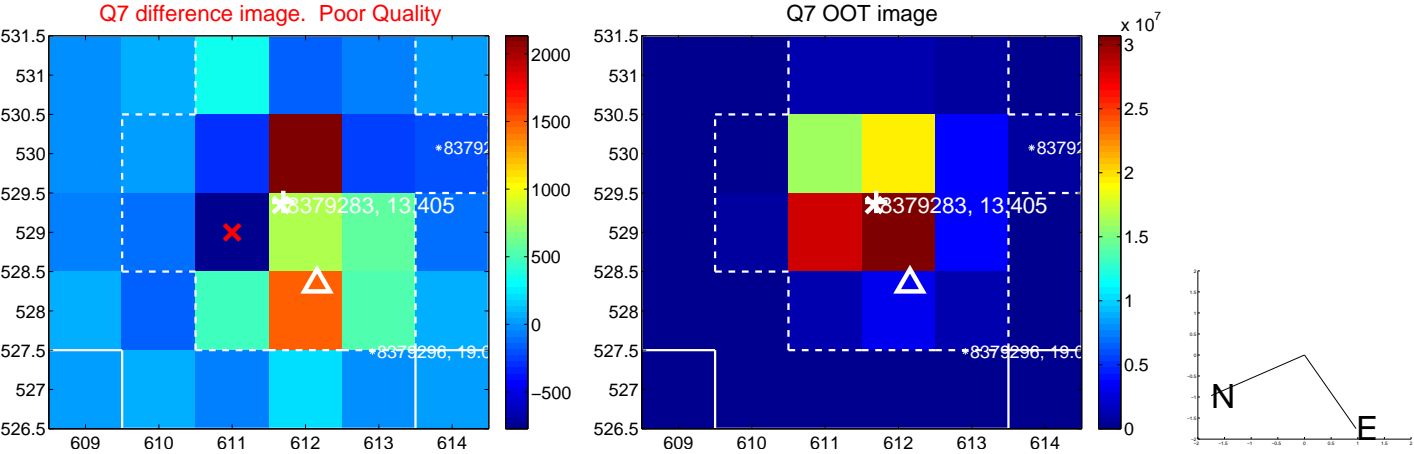
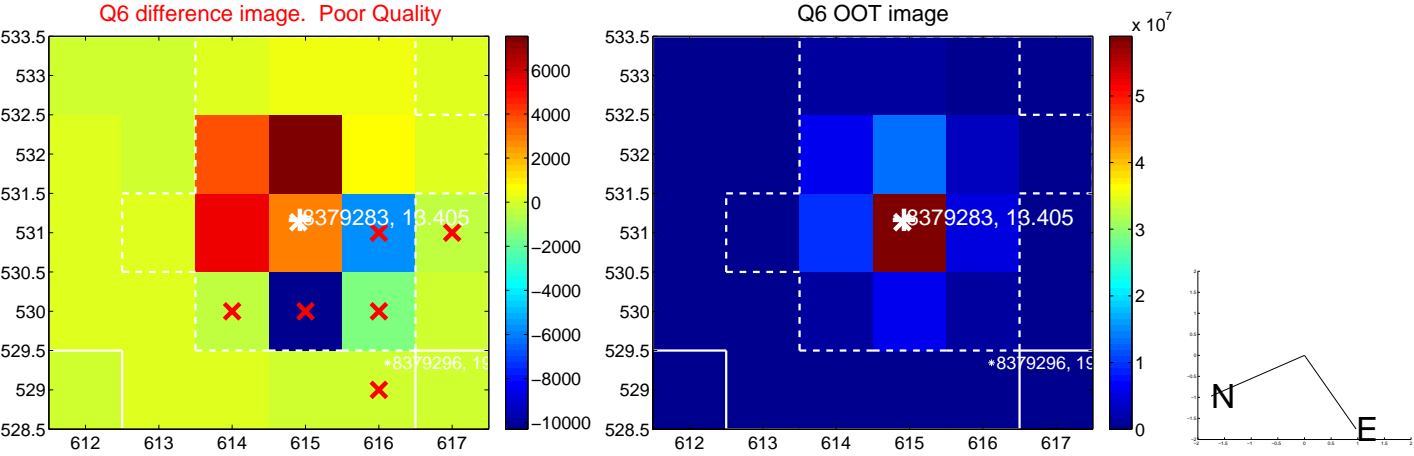
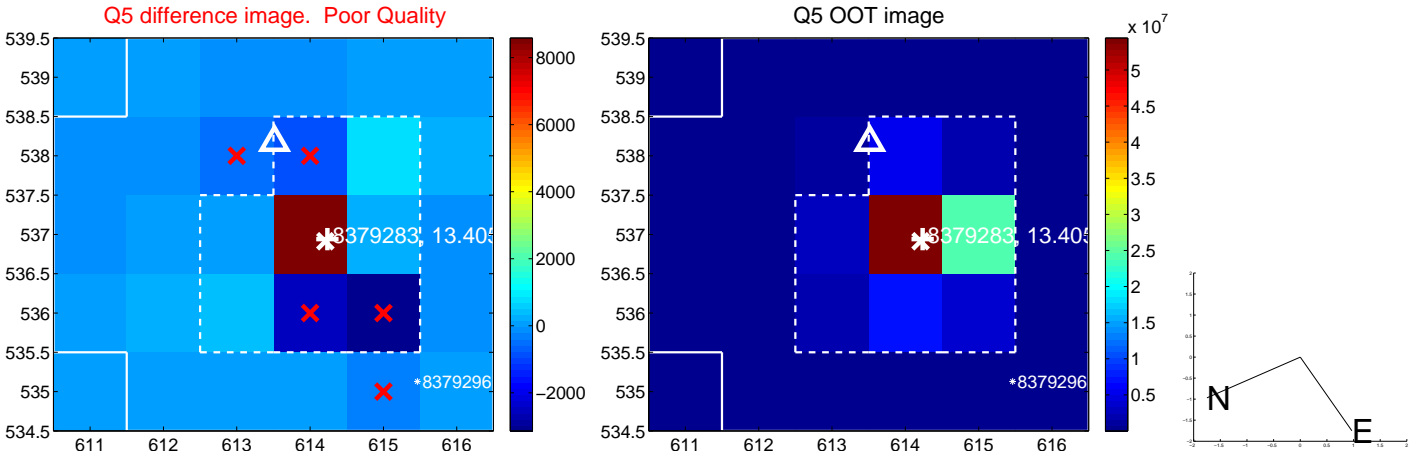


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

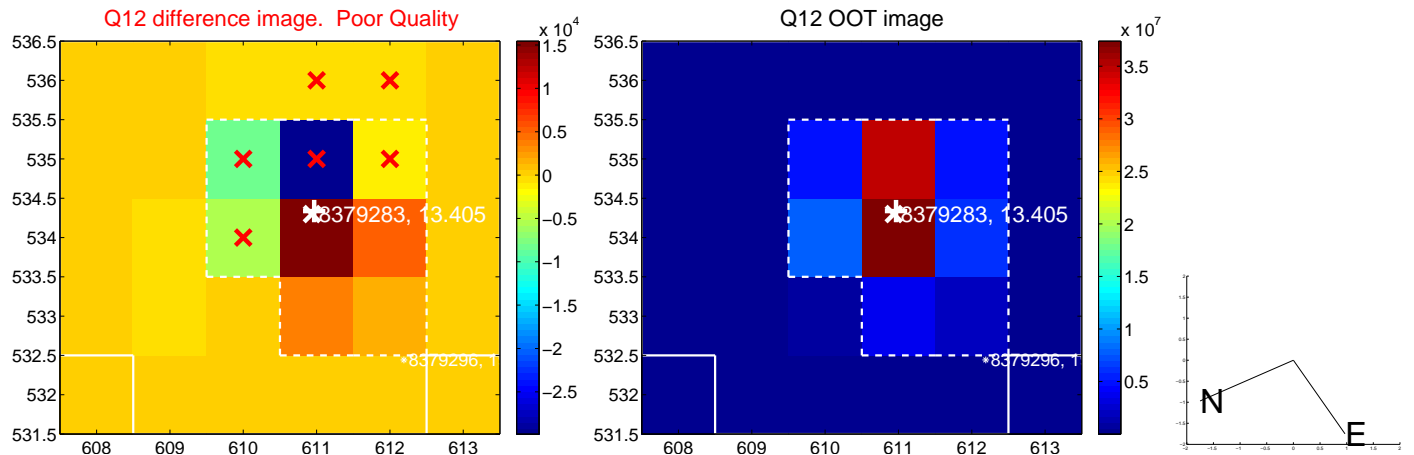
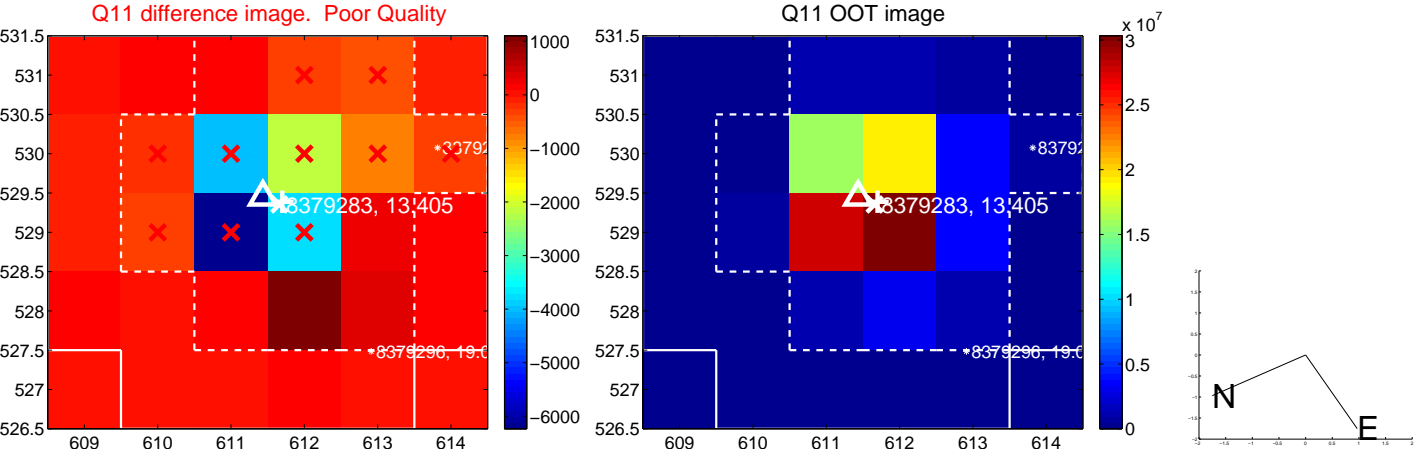
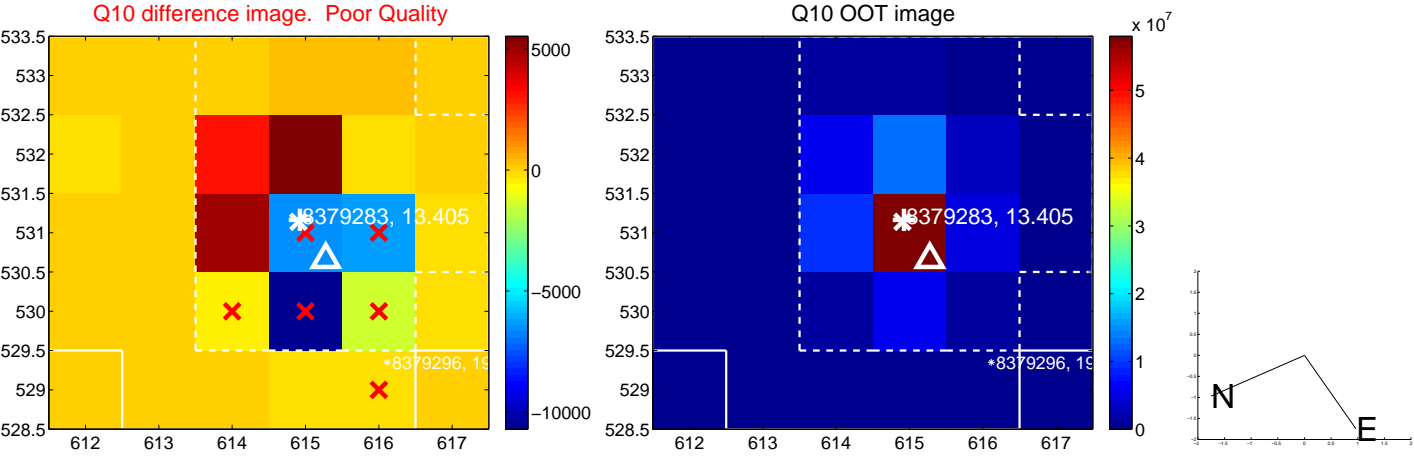
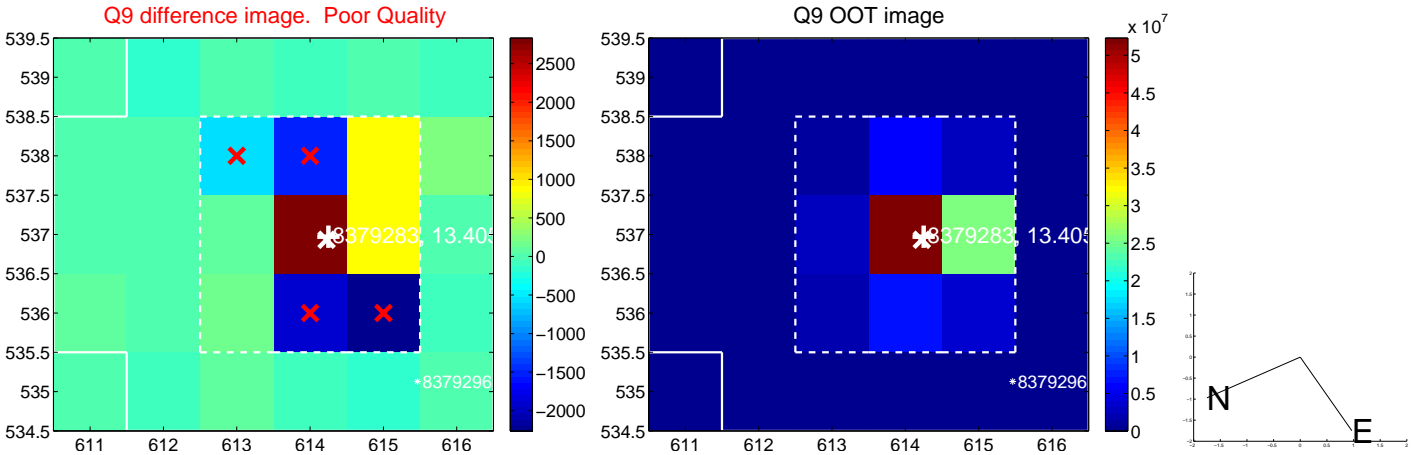
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



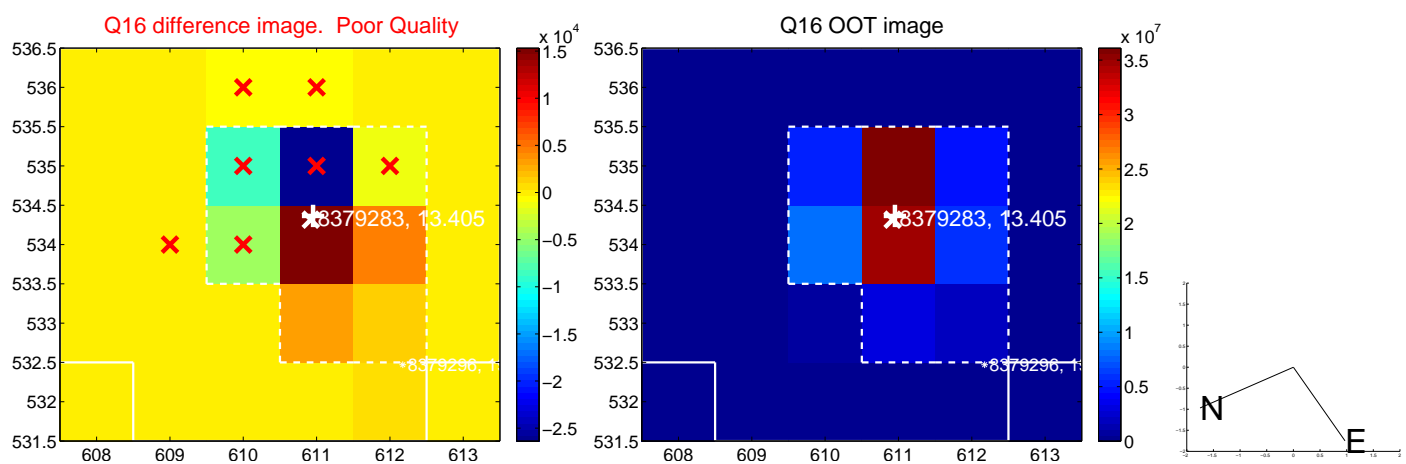
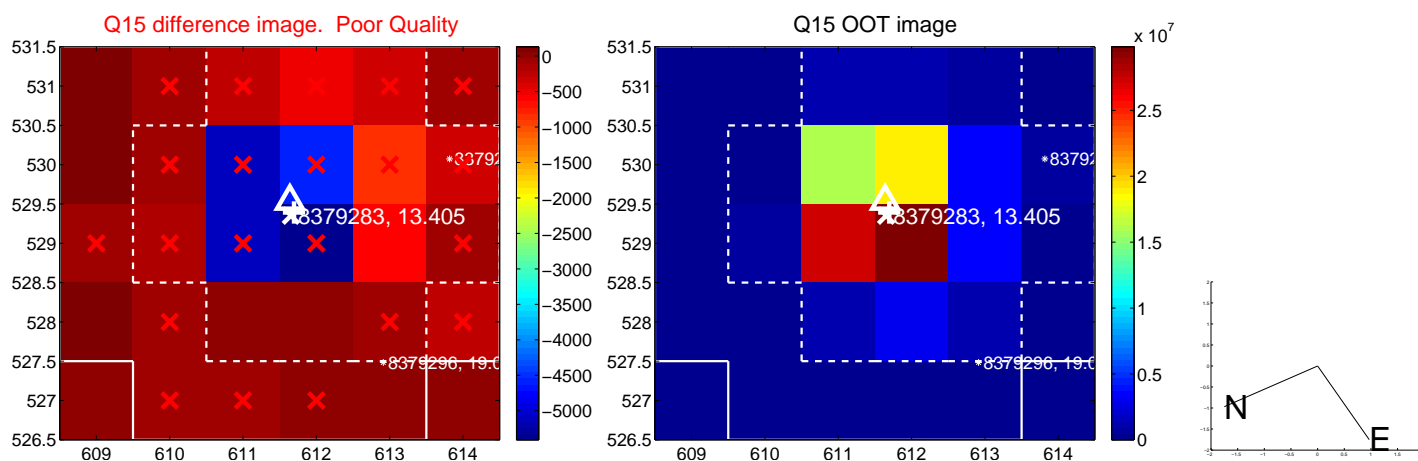
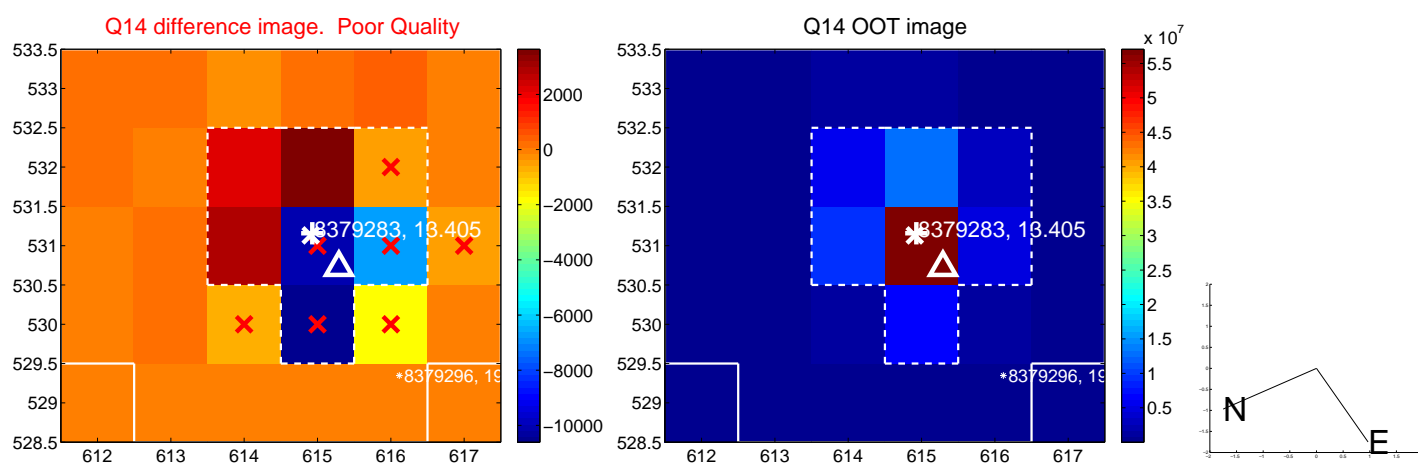
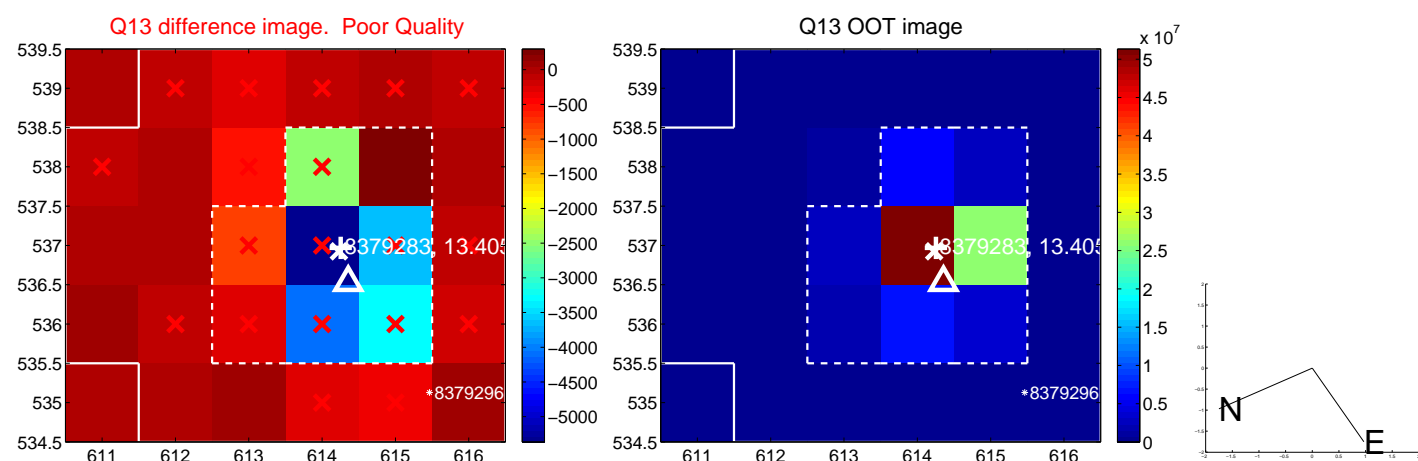
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



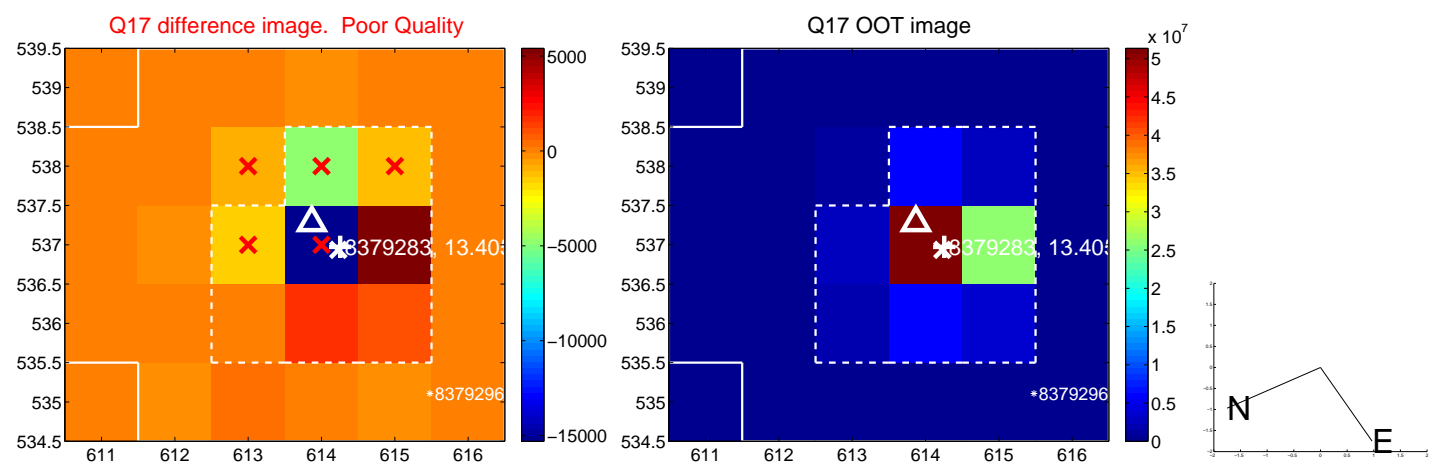
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



folded centroid time series figure for this object.

UKIRT Image

Declination

