

KIC 007199906

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})
007199906-01	OBS	No	0.566735	131.875128	0.6	3.048	12.1	0.2	1.47	5596	0.11	10519.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007199906-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_UNRESOLVED_OFFSET—EPHEM_MATCH

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 007199906-01

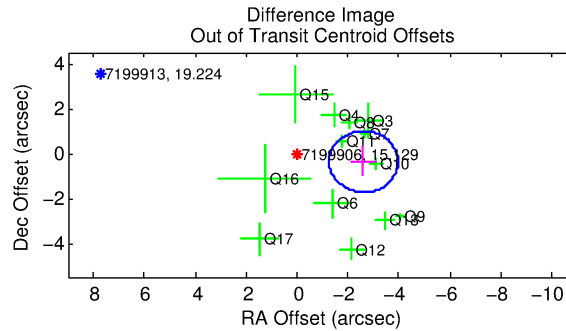
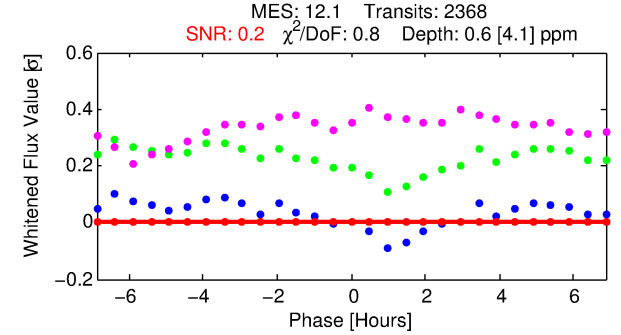
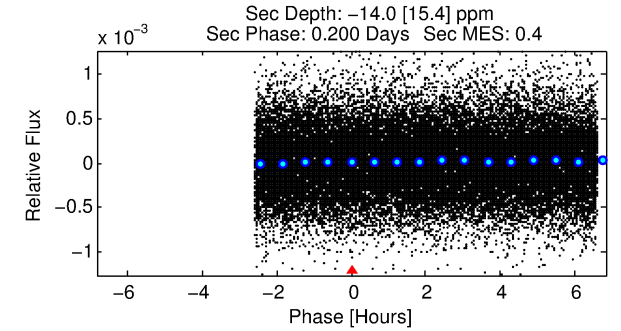
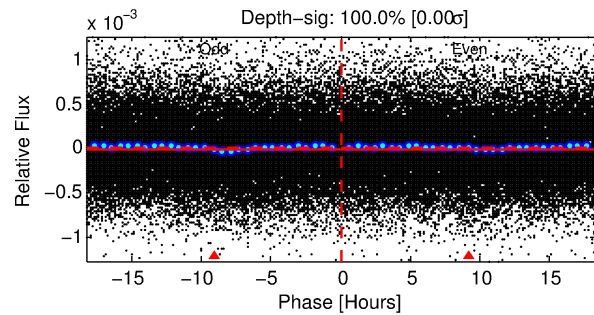
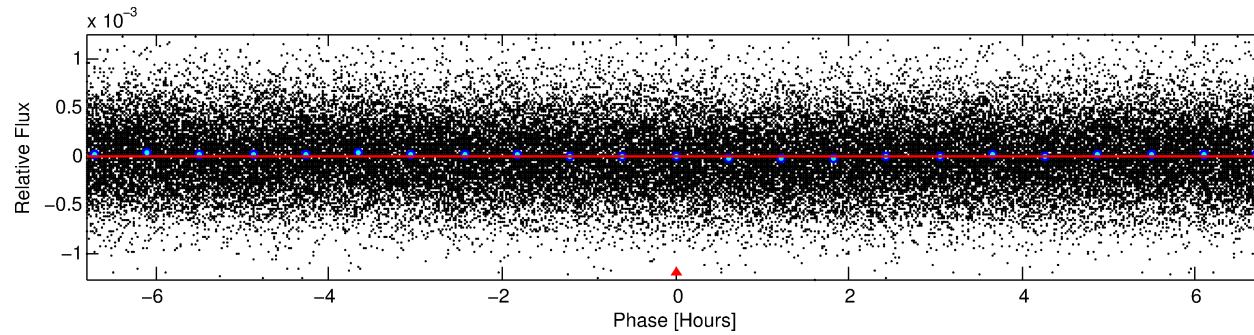
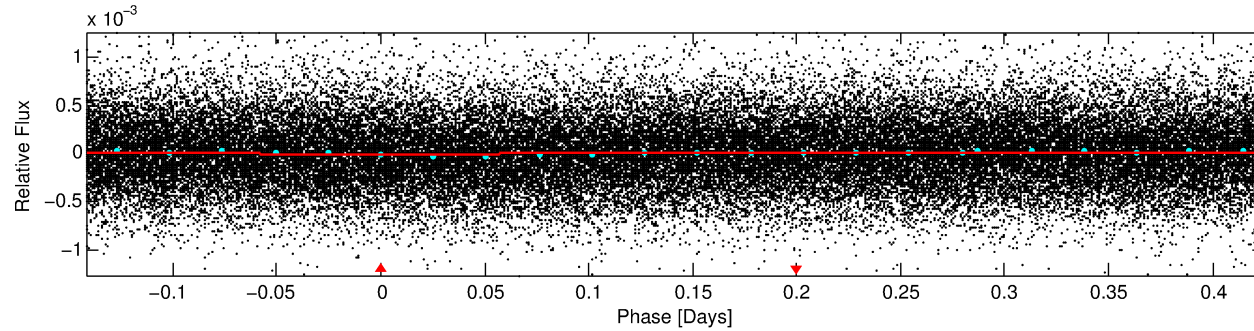
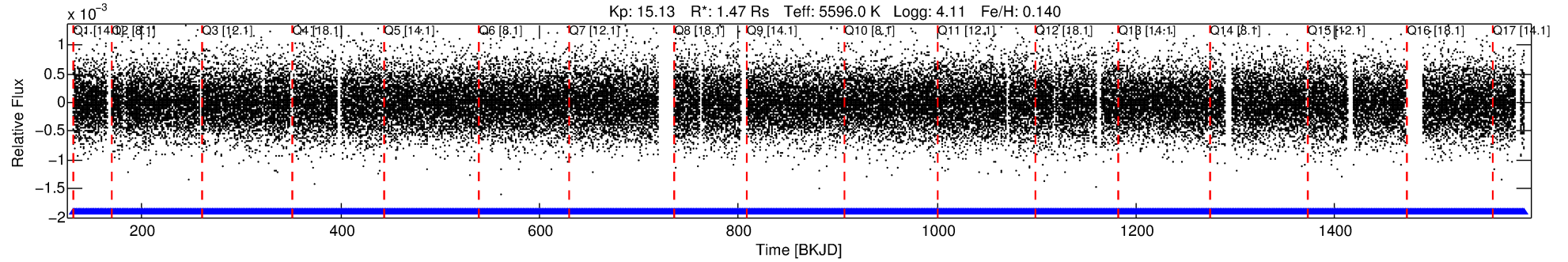
TCE (1)	KIC	Parent (2)	Parent KIC	$P_1:P_2$	Dist ($''$)	Δ Row	Δ Col	m_2	m_1	D_2/D_1	Mechanism	Flag	σ_P	σ_T
007199906-01	7199906	RR-Lyr-pri	7198959	1:1	808.4	165	118	7.86	15.13	623300.00	Direct-PRF	0	2.52	20.89

Notes: $P_1:P_2$ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m_2 and m_1 are the magnitudes of the parent and child. D_2/D_1 is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

KIC: 7199906 Candidate: 1 of 1 Period: 0.567 d

KOI: K01739 Corr: No Ephemeris Match



DV Fit Results:

Period = 0.56674 [0.00061] d
Epoch = 131.8751 [0.2409] BKJD
Rp/R* = 0.0007 [0.0460]
a/R* = 1.54 [253.76]
b = 0.10 [2821.14]
Seff = 10519.31 [3693.52]
Teff = 2582 [227] K
Rp = 0.11 [7.35] Re
a = 0.0134 [0.0029] AU
Ag = N/A
Teffp = N/A

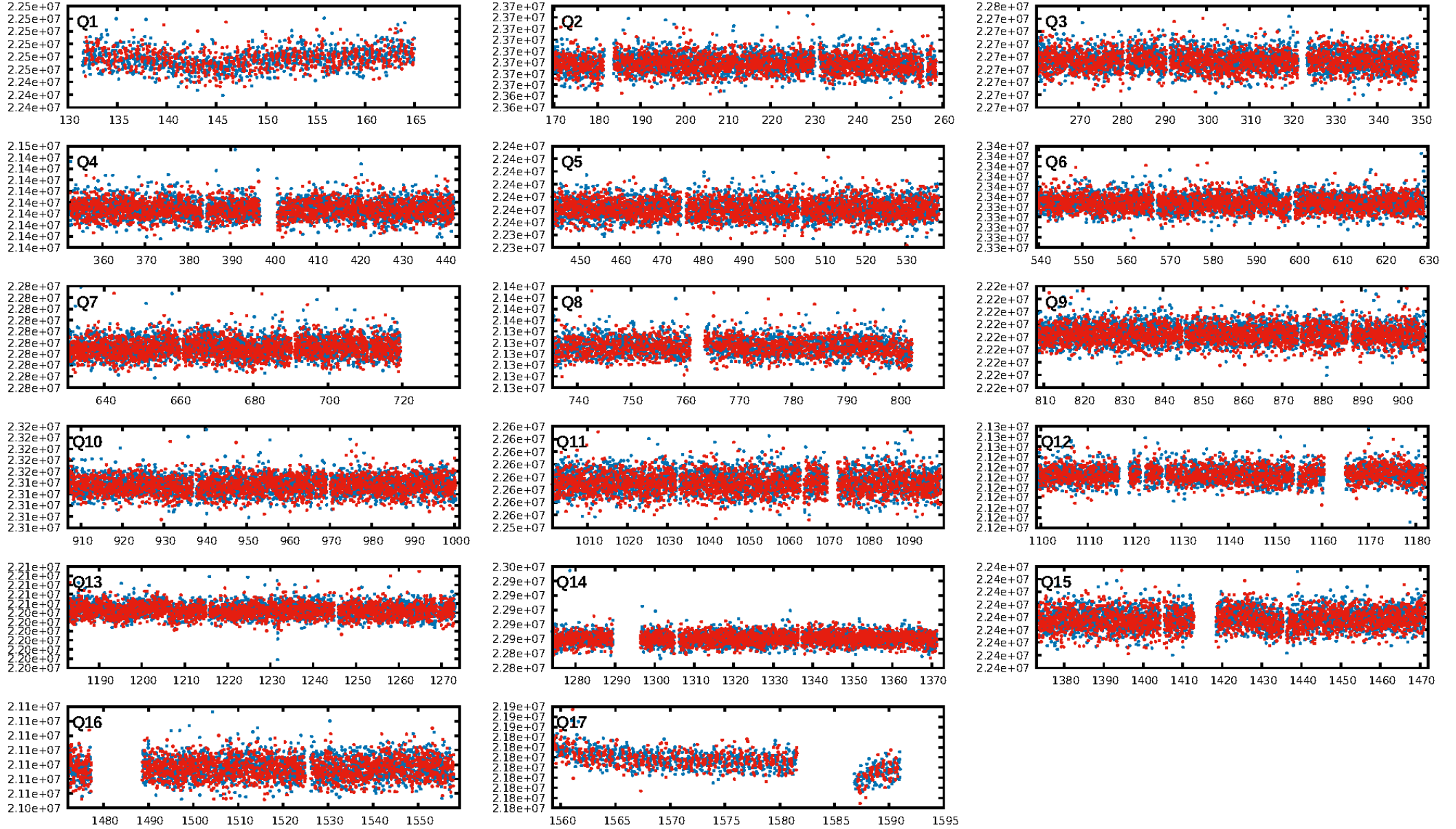
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.75e-27
RollingBand-fgt: 1.00 [2262/2262]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 2.638 arcsec [5.83σ]
KicOffset-rm: 2.732 arcsec [5.97σ]
OotOffset-st: 2/4/4/3 [13]
KicOffset-st: 2/4/4/3 [13]
DiffImageQuality-fgm: 0.08 [1/13]
DiffImageOverlap-fno: 1.00 [17/17]

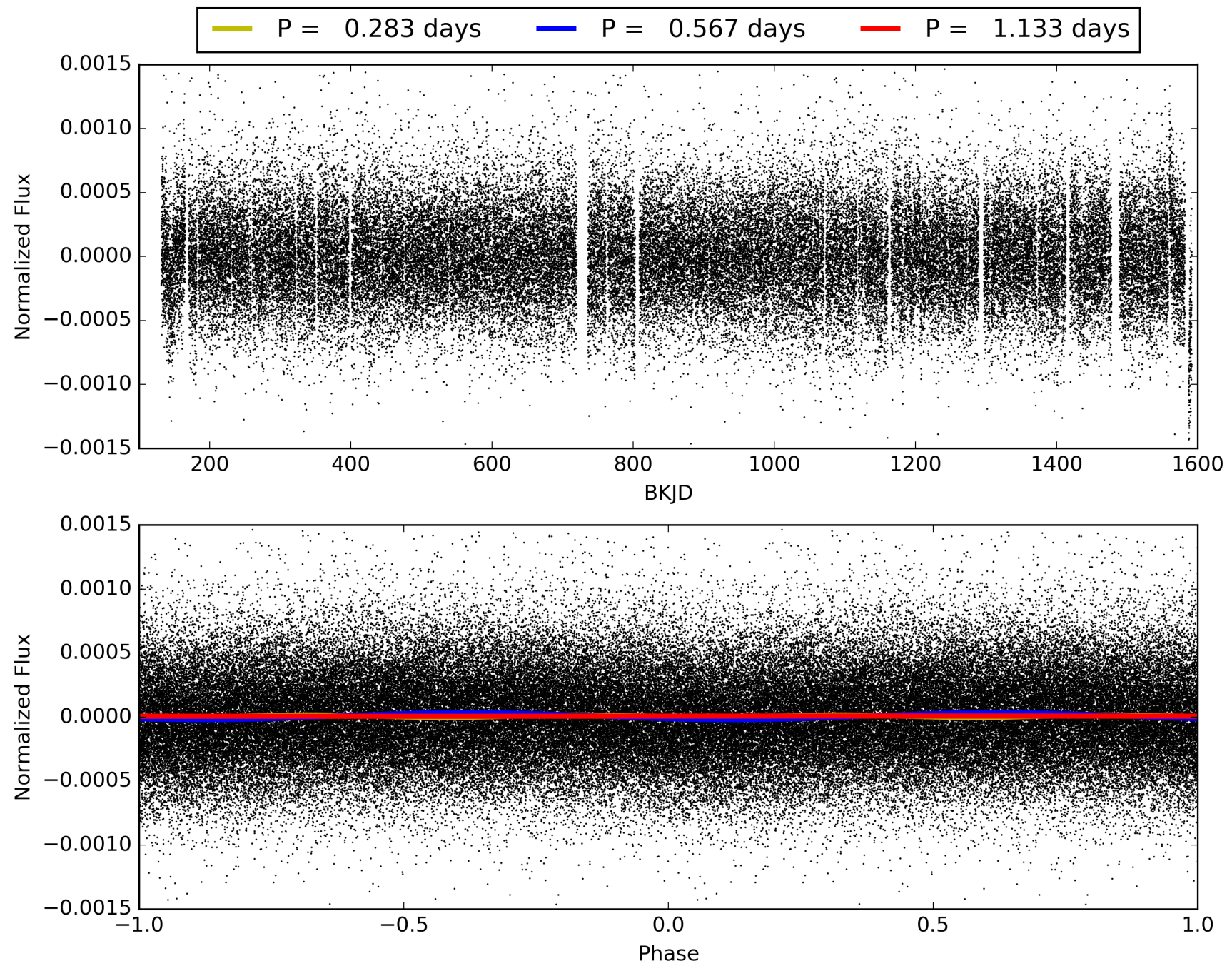
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 10:01:30 Z

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

TCE 007199906-01, PDC Light Curves

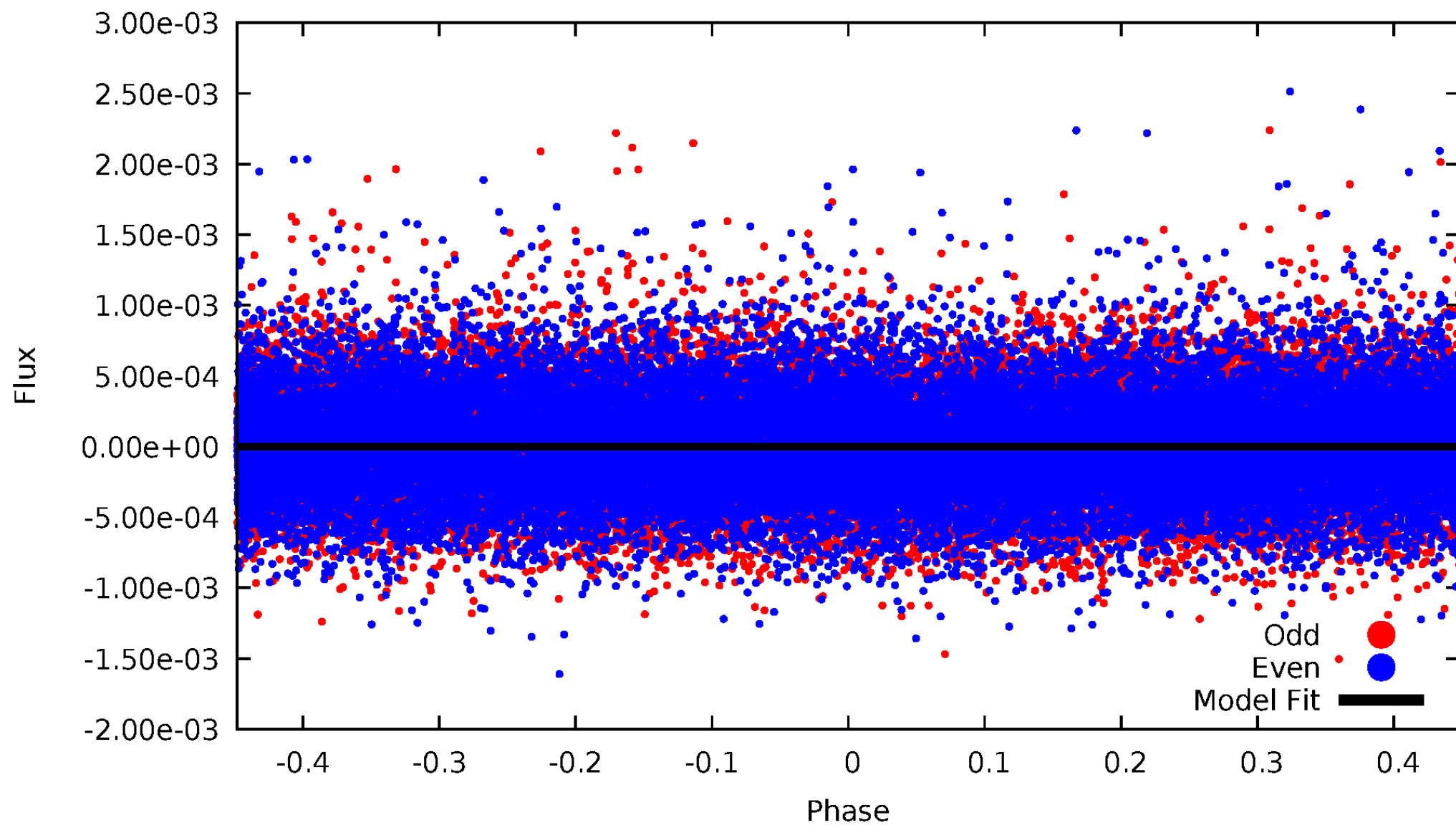


TCE 007199906-01



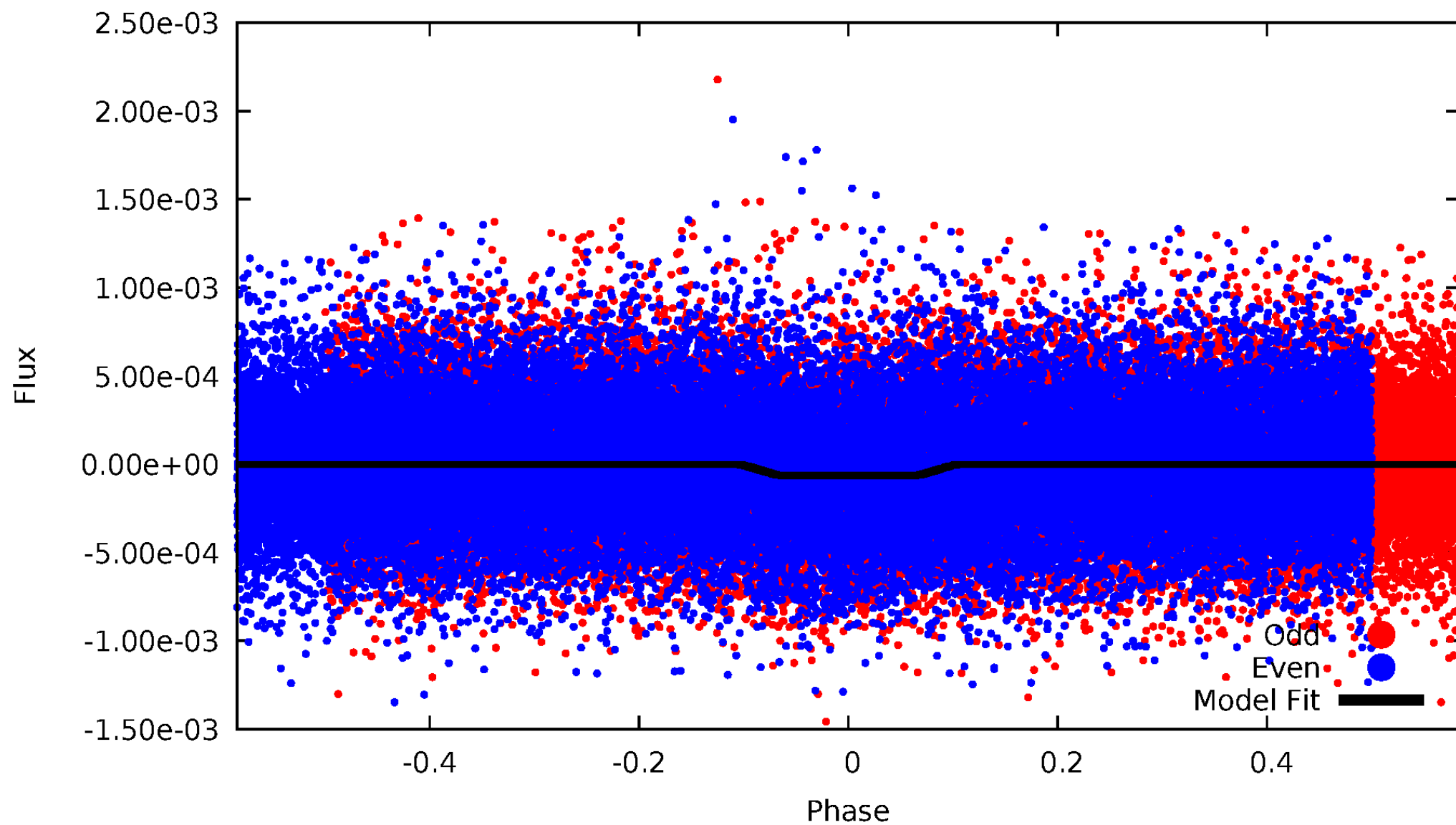
DV Odd/Even

TCE 007199906-01

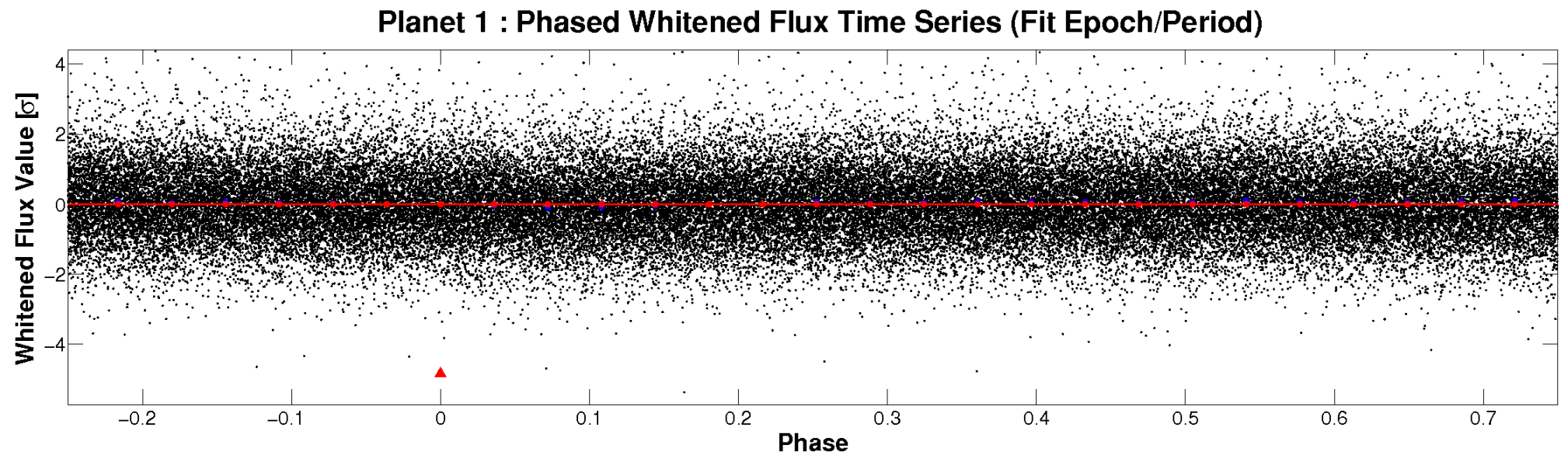
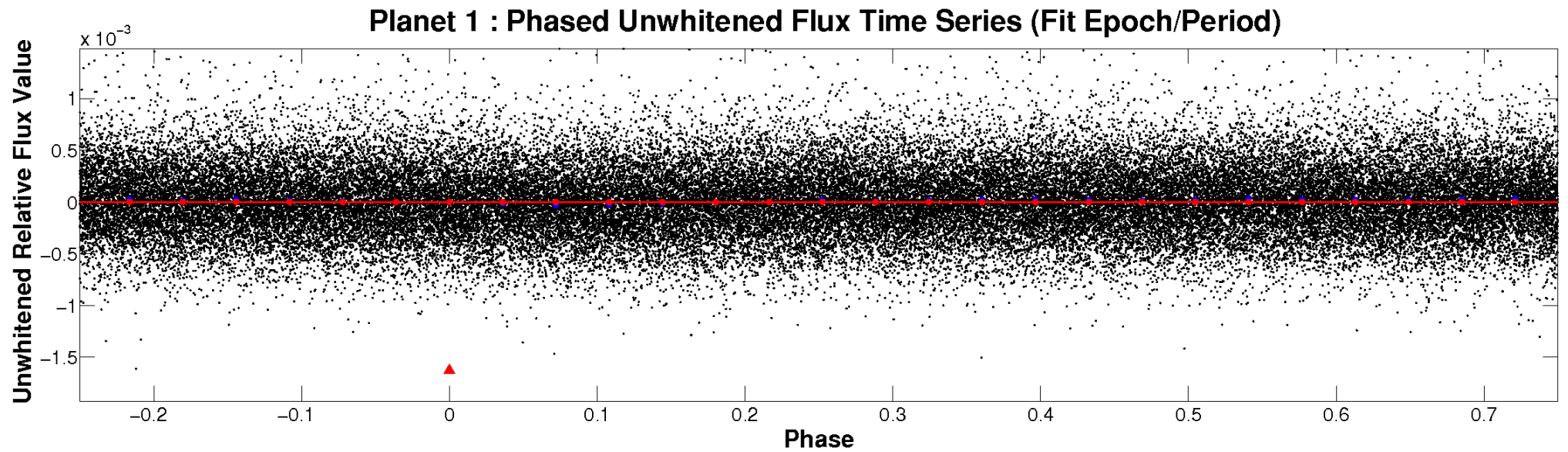


ALT Odd/Even

TCE 007199906-01

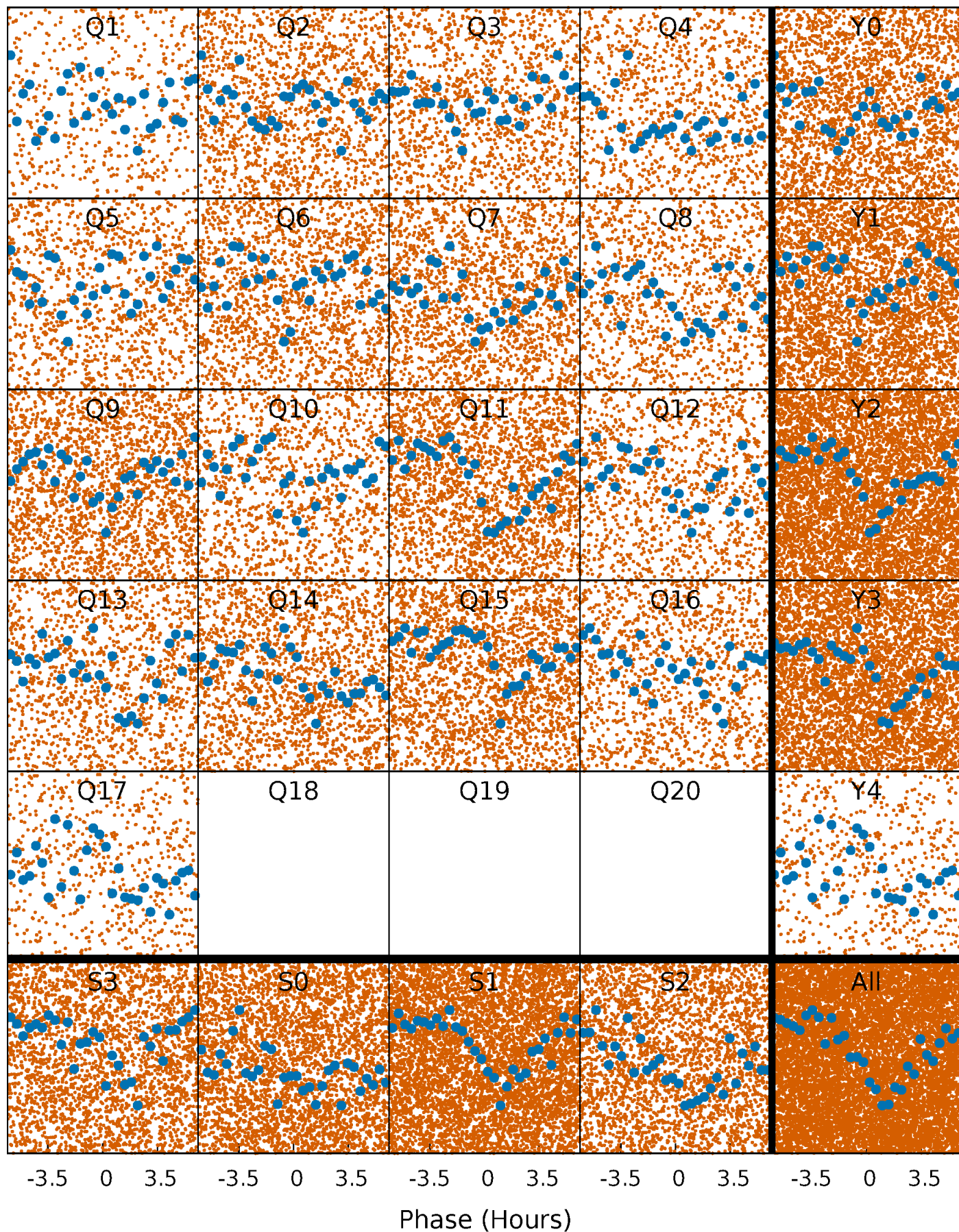


Non-Whitened Vs. Whitened Light Curve



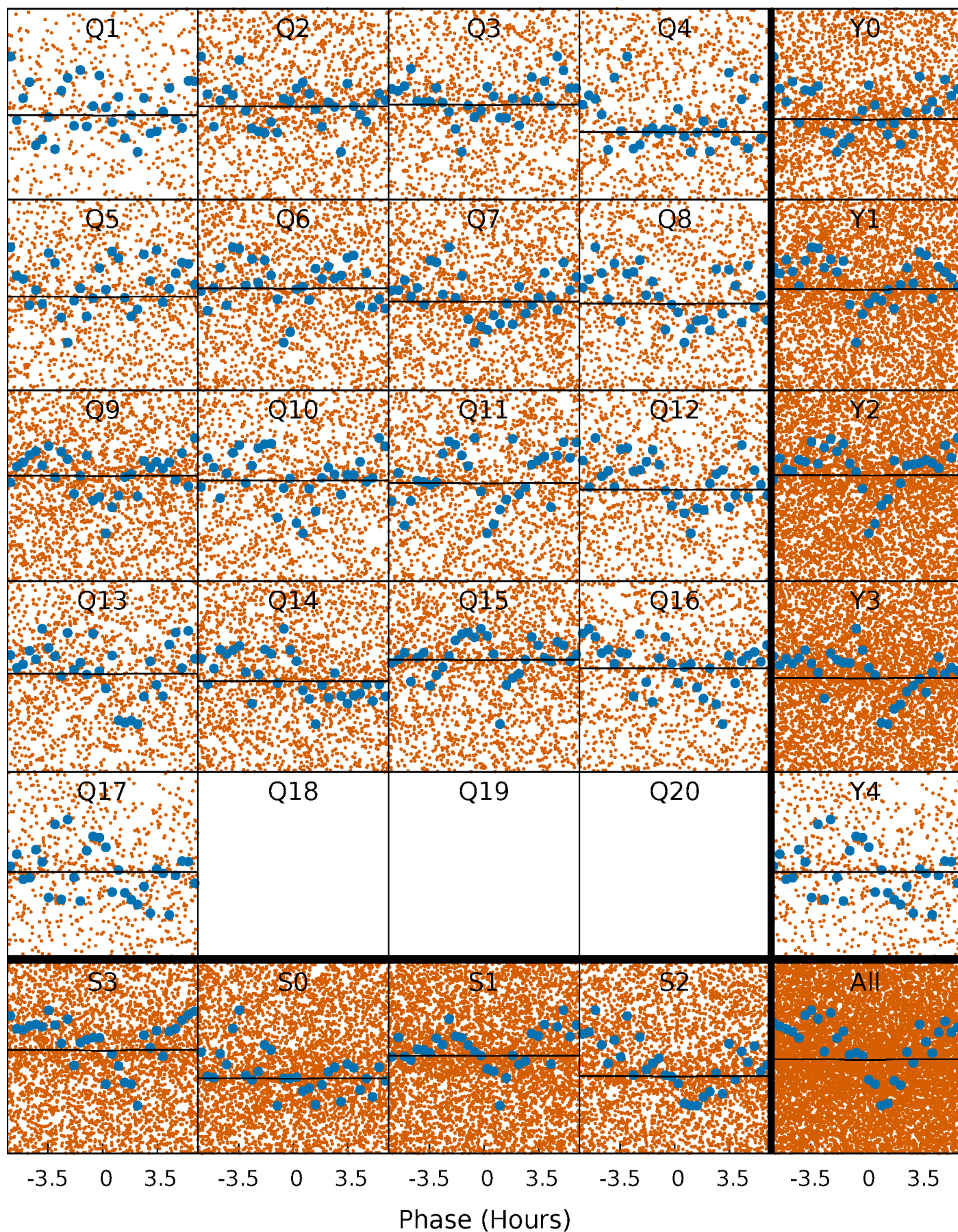
PDC Quarter-Phased Transit Curves

TCE 007199906-01 P= 0.566735 Days $T_0=131.875128$ (BKJD)



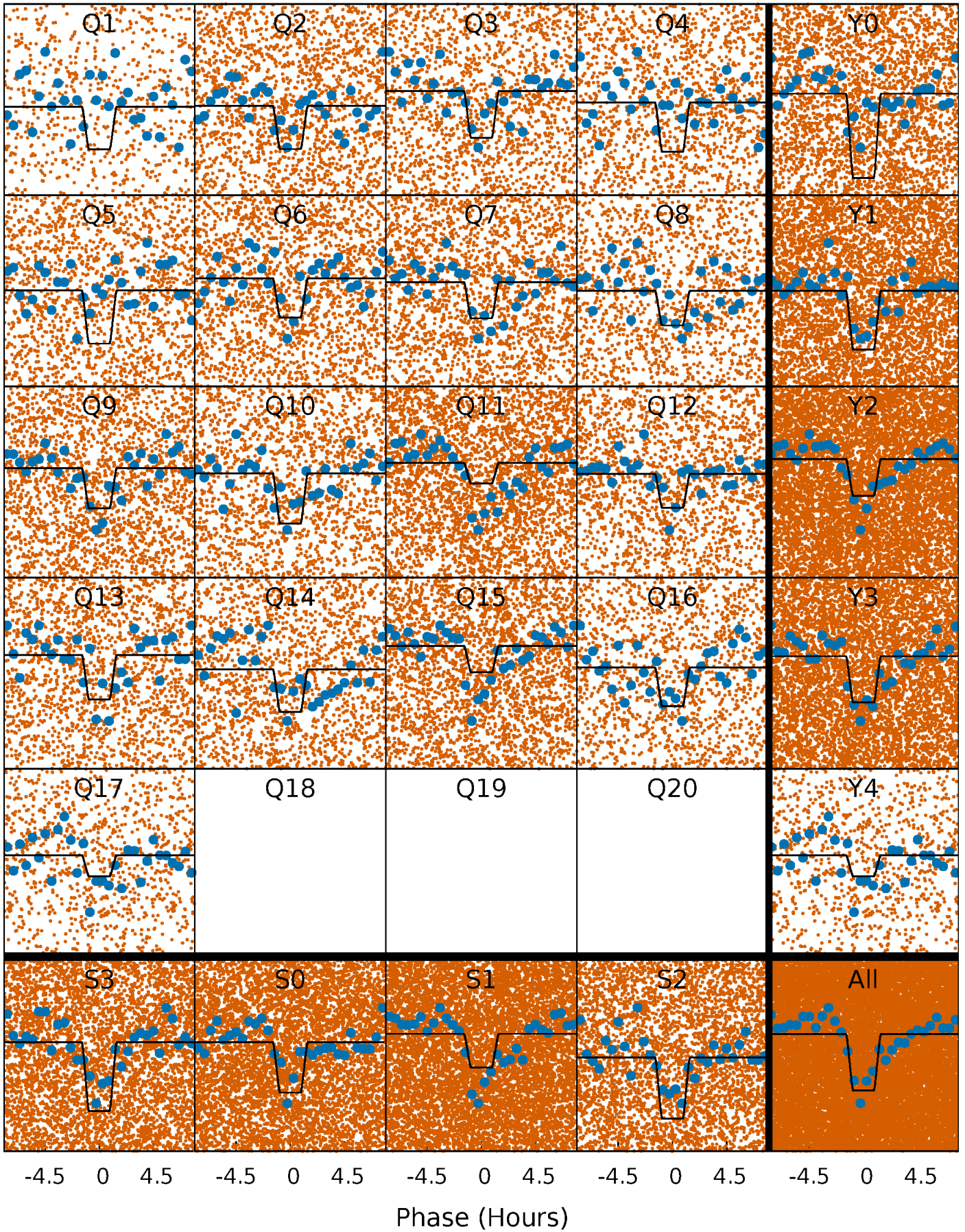
DV Quarter-Phased Transit Curves

TCE 007199906-01 P= 0.566735 Days $T_0=131.875128$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

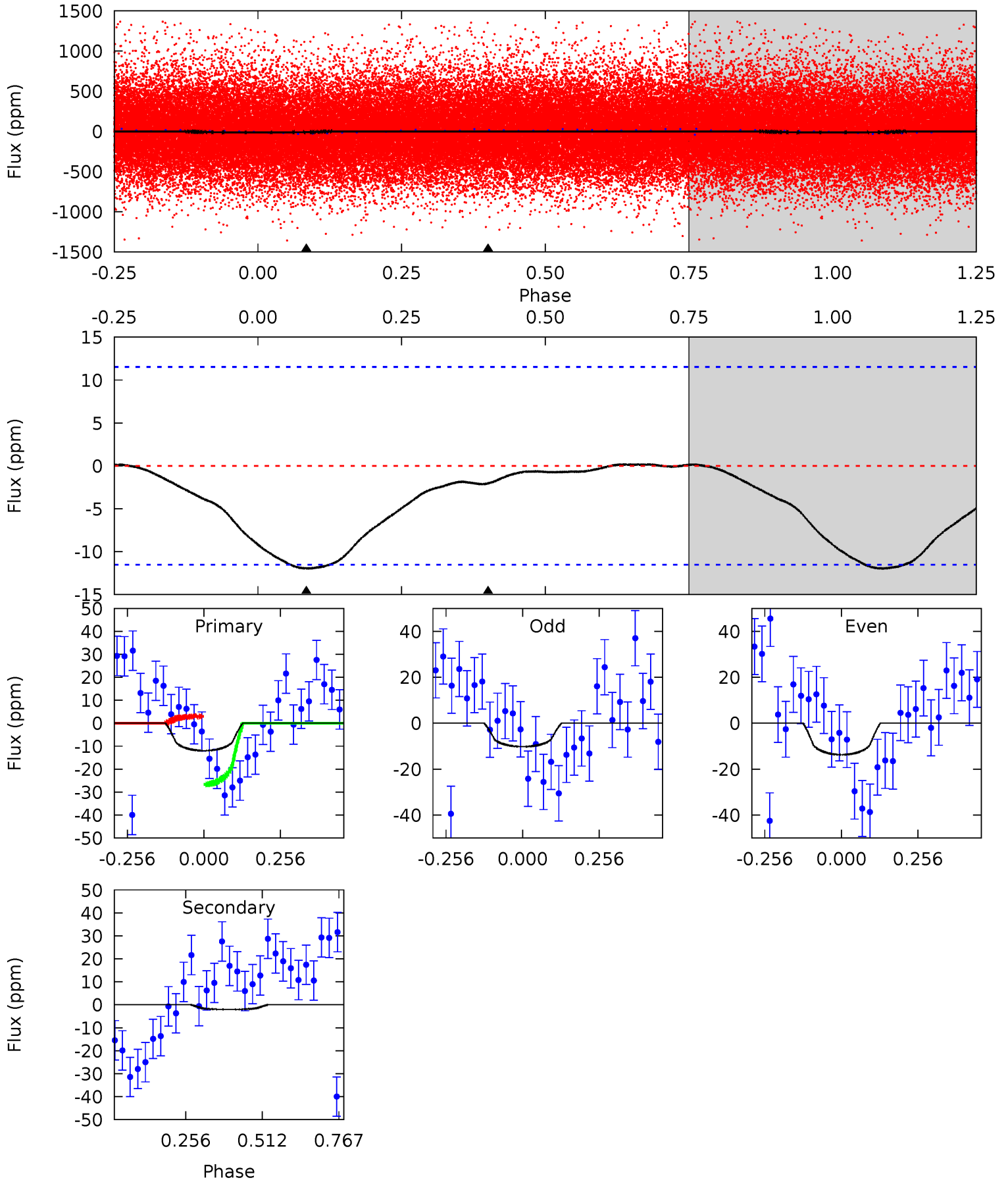
TCE 007199906-01 P= 0.566801 Days $T_0=131.807841$ (BKJD)



DV Model-Shift Uniqueness Test

007199906-01, P = 0.566735 Days, E = 131.308393 Days

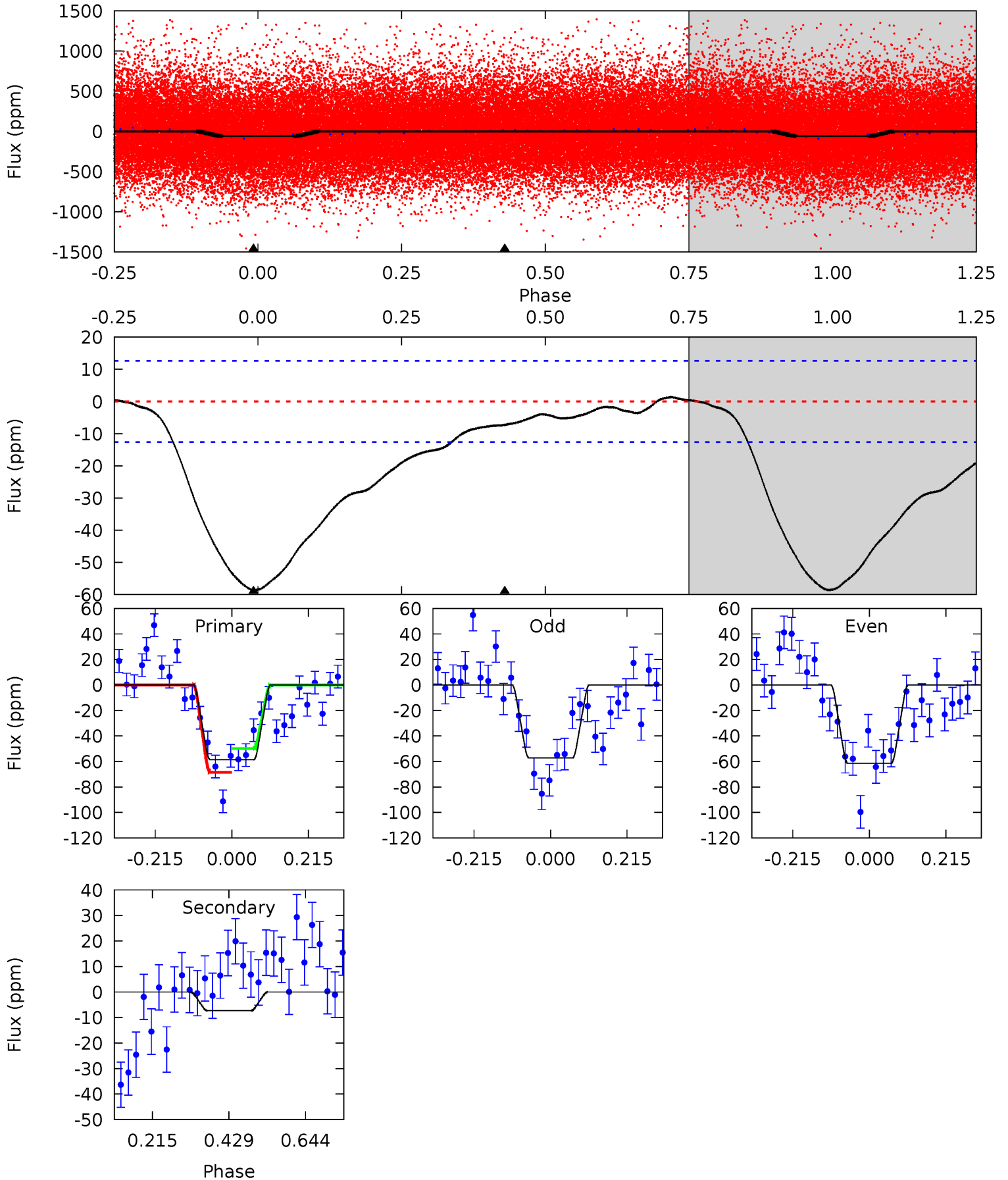
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.53	0.78	0	0	4.36	1.14	0.12	4.53	4.53	0.78	0.78	0.67	1.18	0.02	4.53



Alt Model-Shift Uniqueness Test

007199906-01, P = 0.566801 Days, E = 131.241040 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.4	2.54	0	0	4.40	1.24	1.99	20.4	20.4	2.54	2.54	0.73	0.93	0.02	3.24



Stellar Parameters For KIC 007199906

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5596^{+83}_{-75}	$4.105^{+0.203}_{-0.101}$	$0.140^{+0.150}_{-0.150}$	$1.466^{+0.220}_{-0.331}$	$0.998^{+0.081}_{-0.066}$	$0.446^{+0.453}_{-0.140}$
	+1%/-1%	+5%/-2%	+107%/-107%	+15%/-23%	+8%/-7%	+102%/-31%
Source	SPE90	SPE90	SPE90	DSEP		

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

Secondary Eclipse Parameters for KIC 007199906-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-2 ± 3	$4.63^{+5.29}_{-3.29}$	3590^{+155}_{-223}	-3397^{+255}_{-123}	$0.005^{+0.086}_{-0.008}$
Alt.	-7 ± 3	$5.62^{+5.27}_{-3.93}$	3585^{+159}_{-247}	-3348^{+732}_{-139}	$0.022^{+0.219}_{-0.017}$

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 $A_{obs} \gg 1.0$

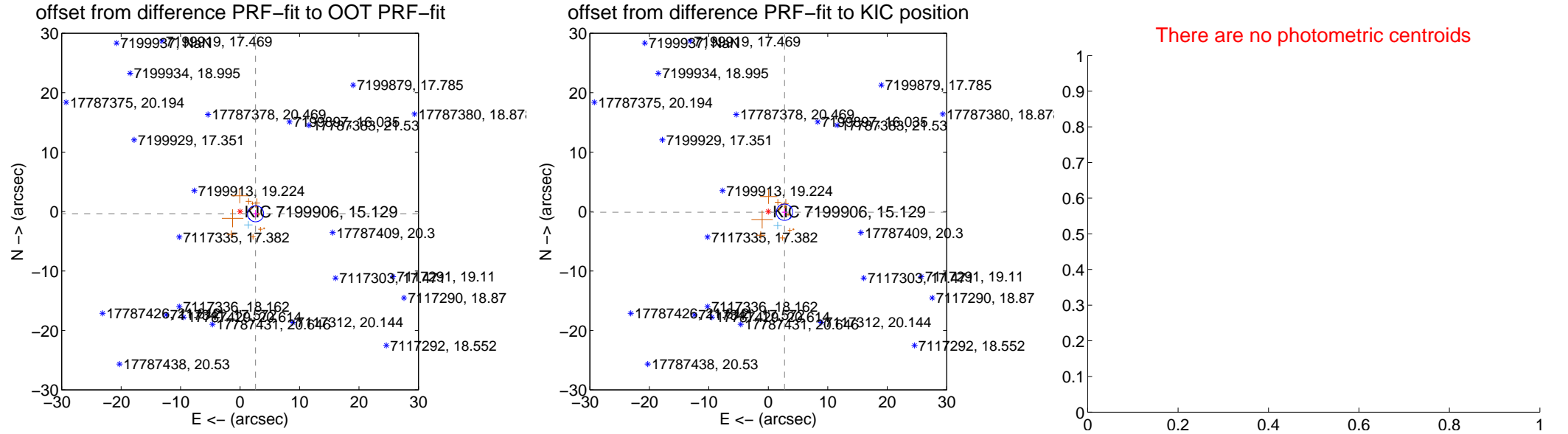
DV Centroid Data

Supplemental centroid analysis for 007199906-01. Kepler magnitude: 15.13. Transit SNR 0.17

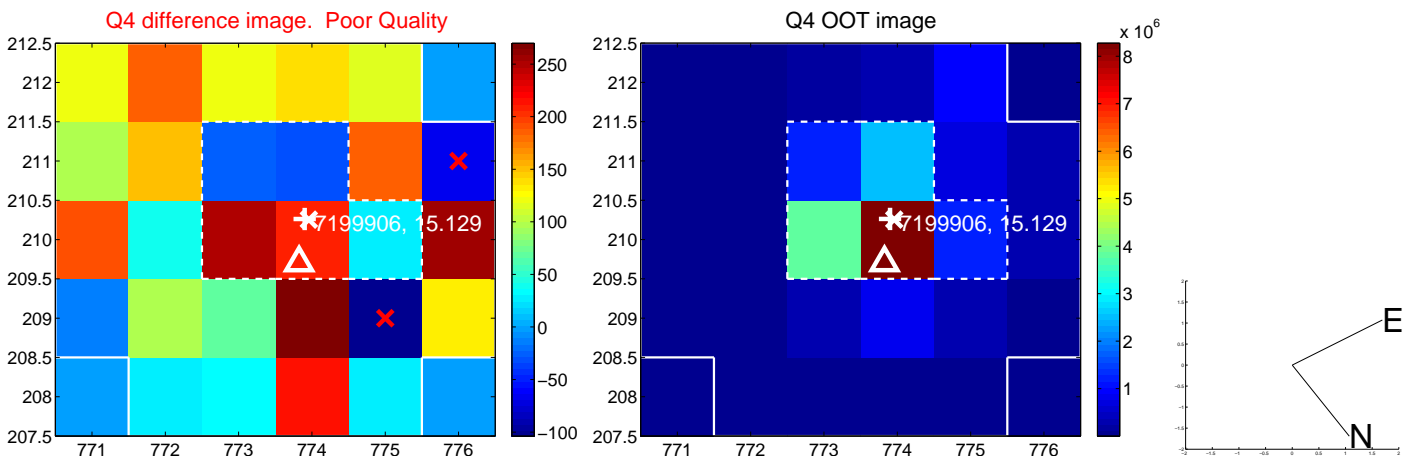
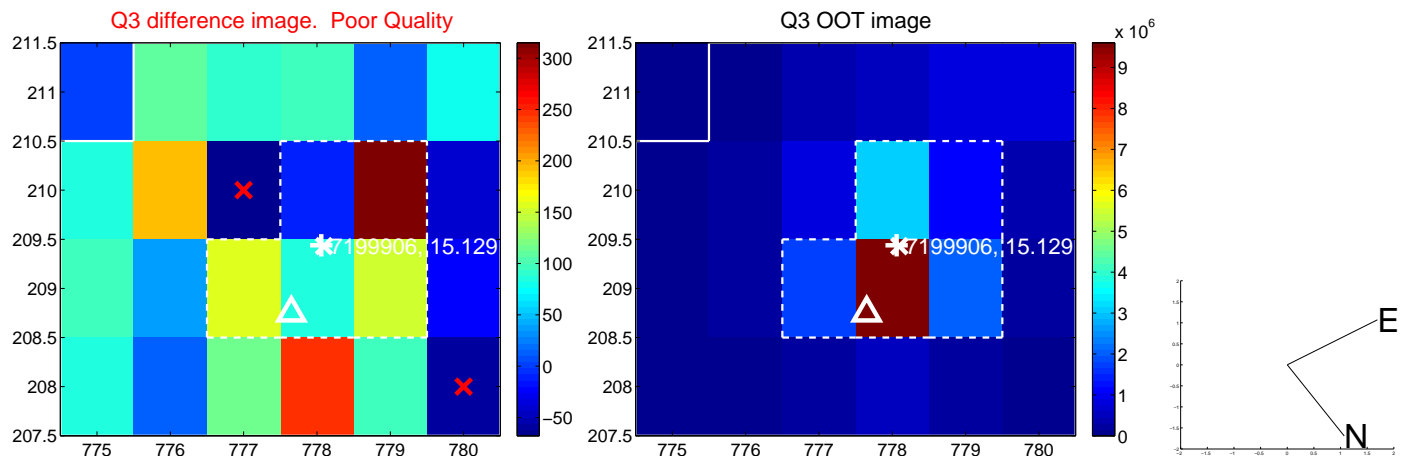
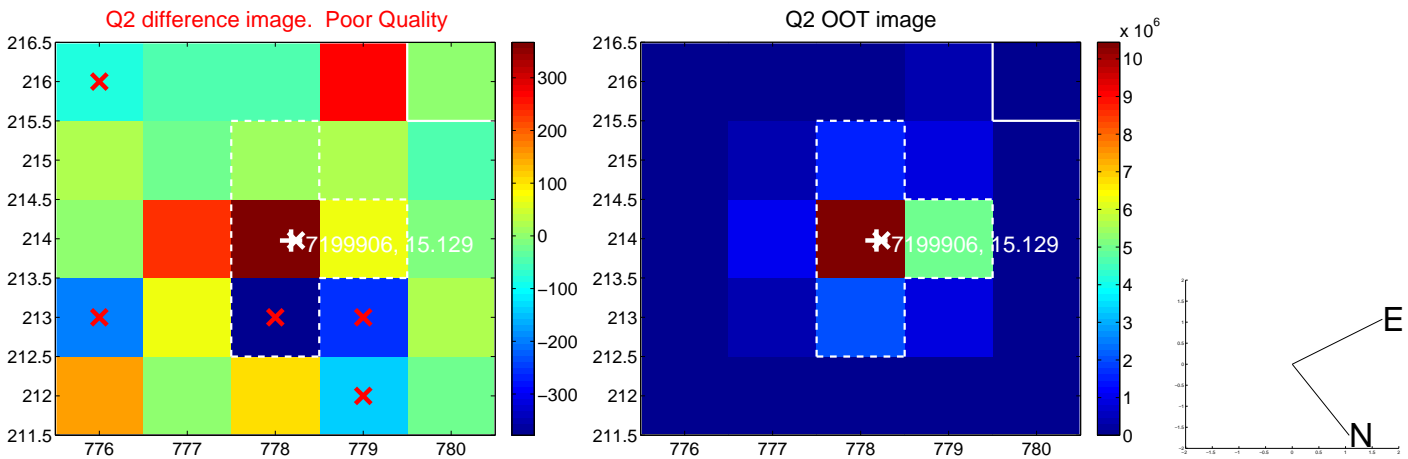
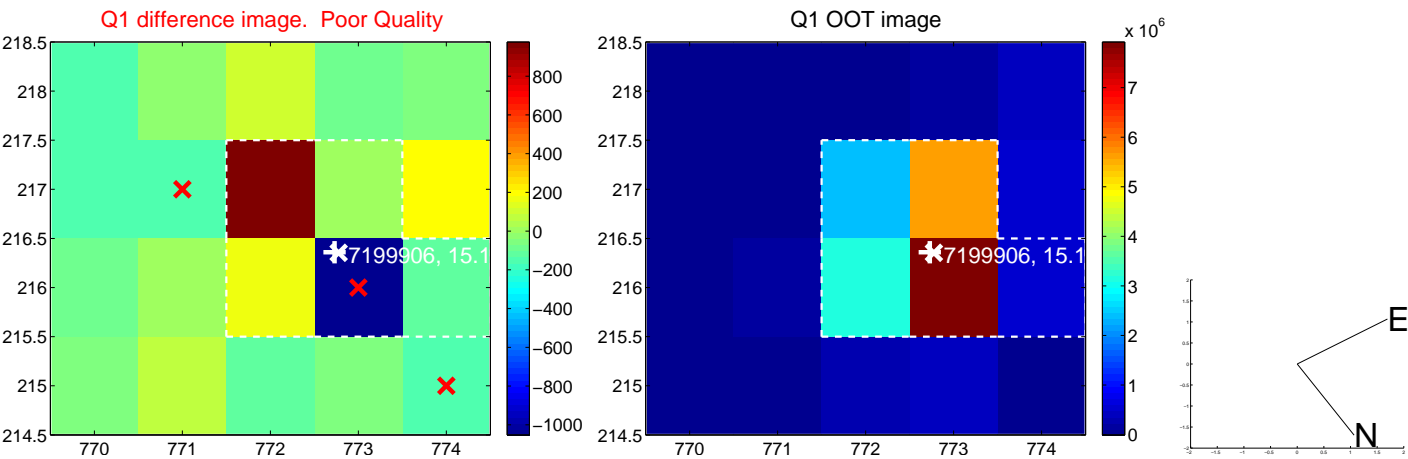
There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.25 arcsec

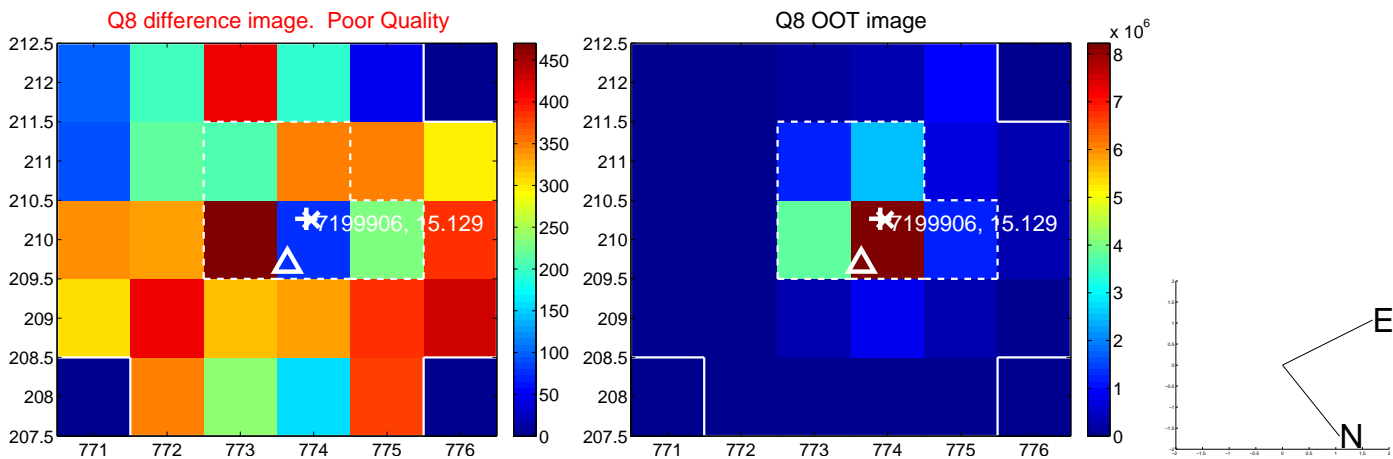
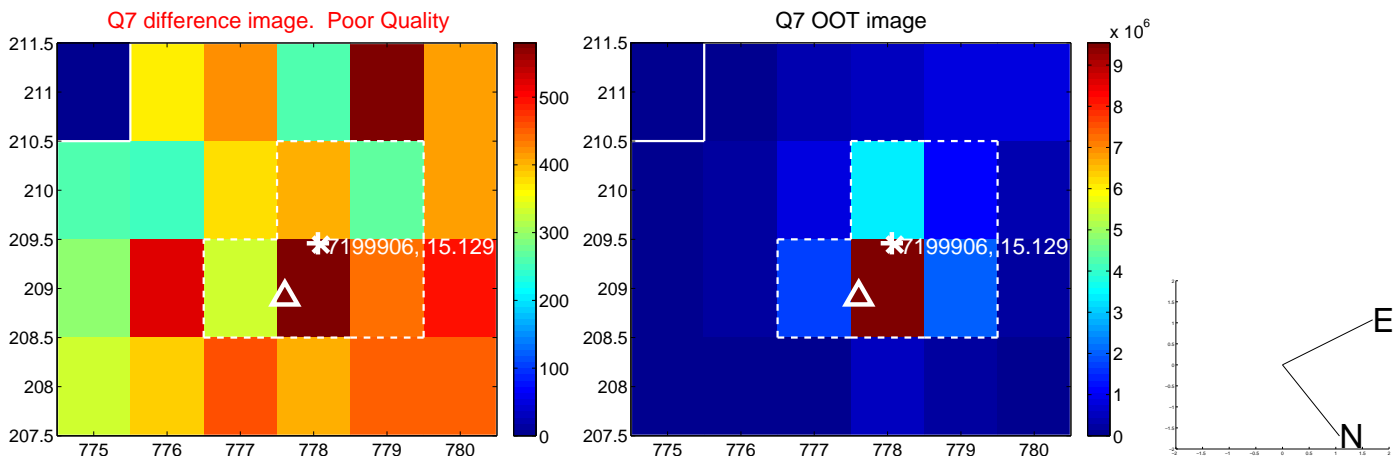
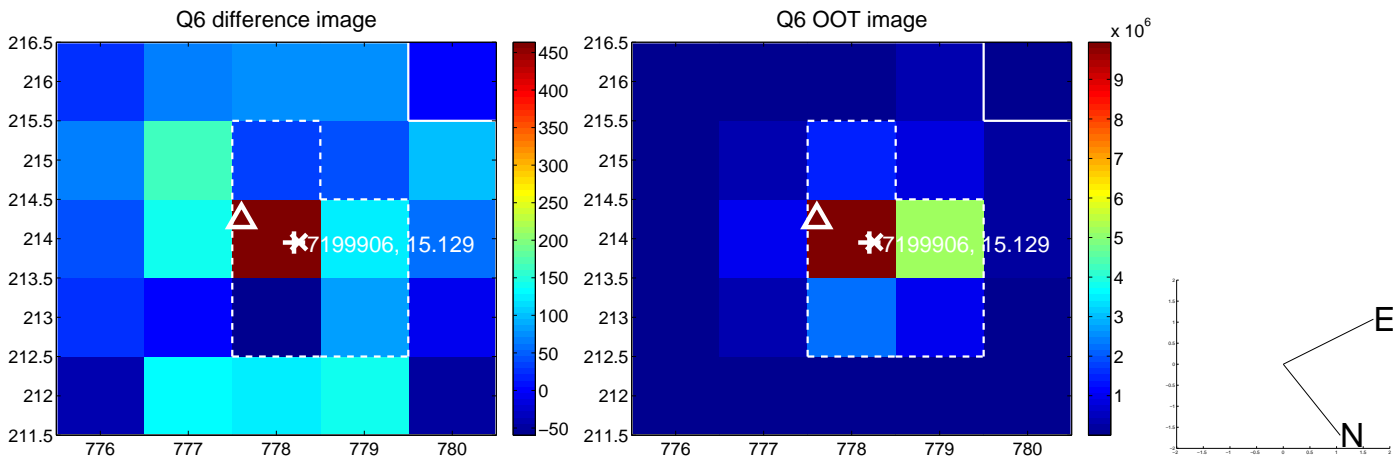
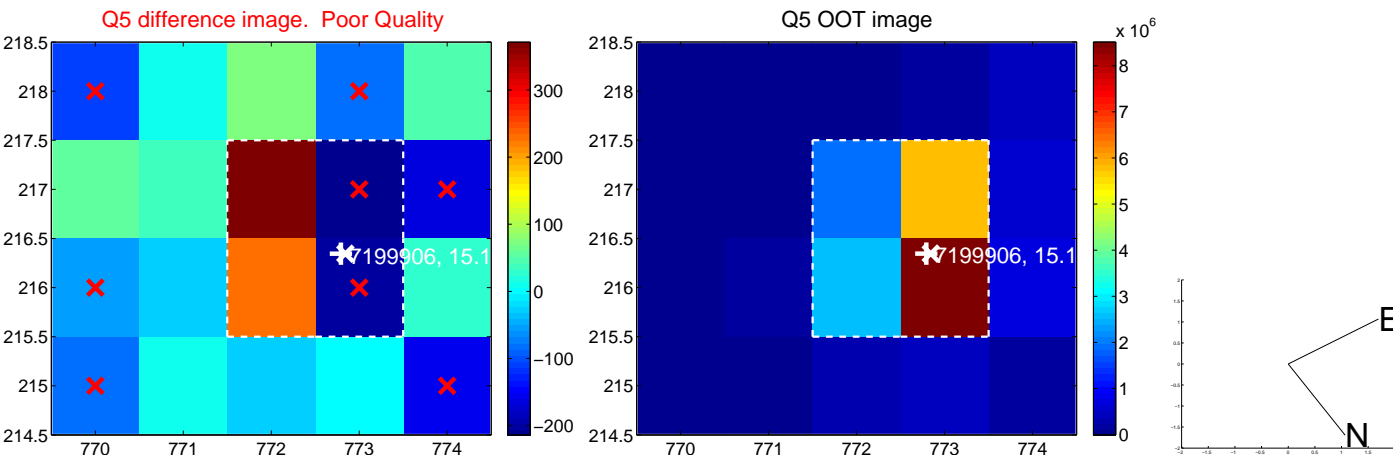
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.638 ± 0.452	5.83	-2.612 ± 0.455	-0.368 ± 0.621
PRF-fit source offset from KIC position	2.732 ± 0.457	5.97	-2.730 ± 0.456	-0.116 ± 0.649
photometric centroid source offset	—	—	—	—



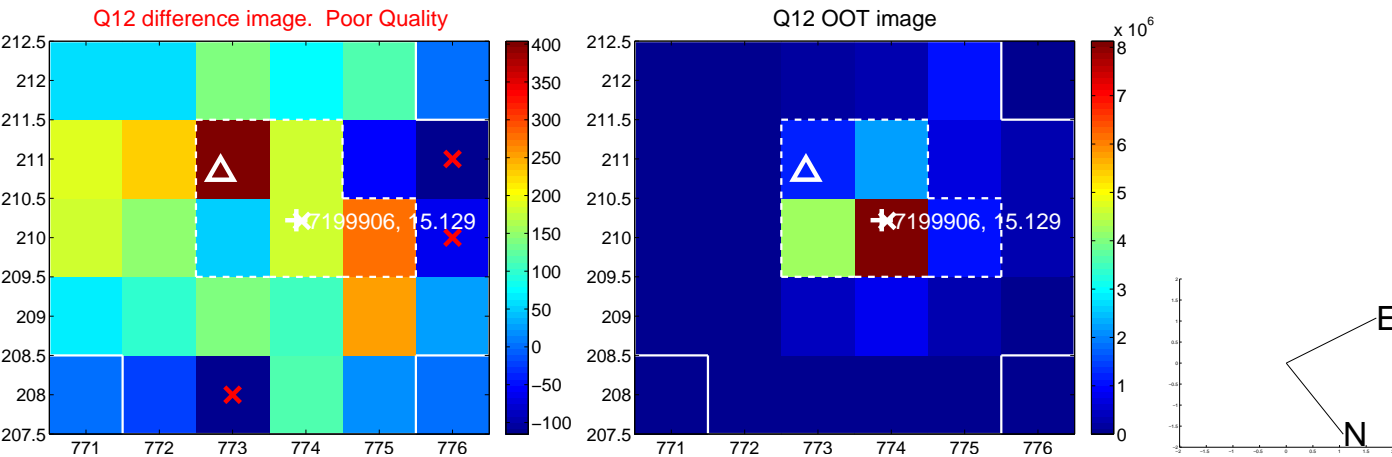
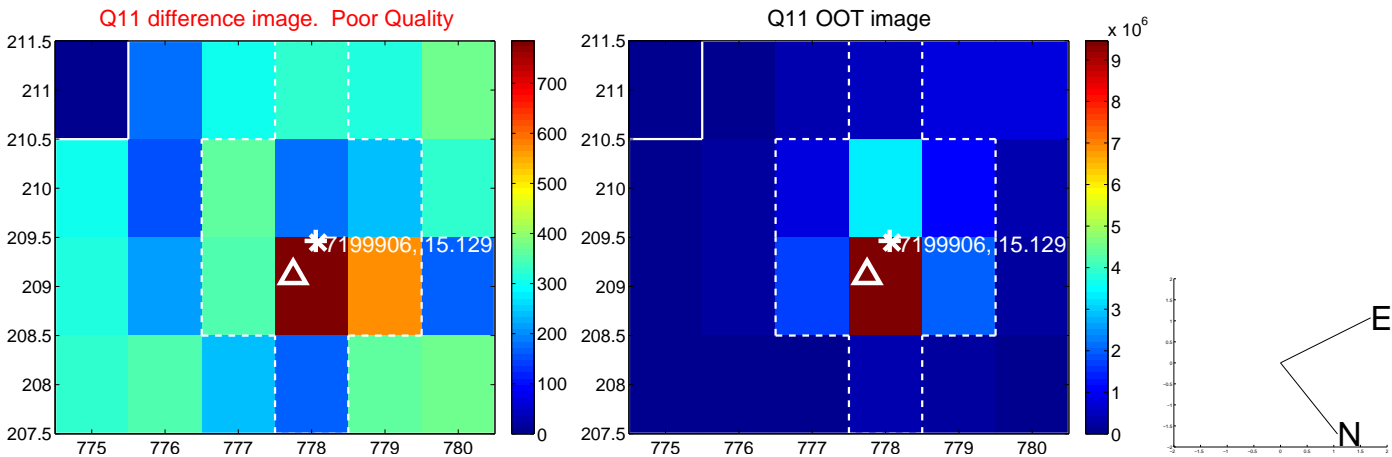
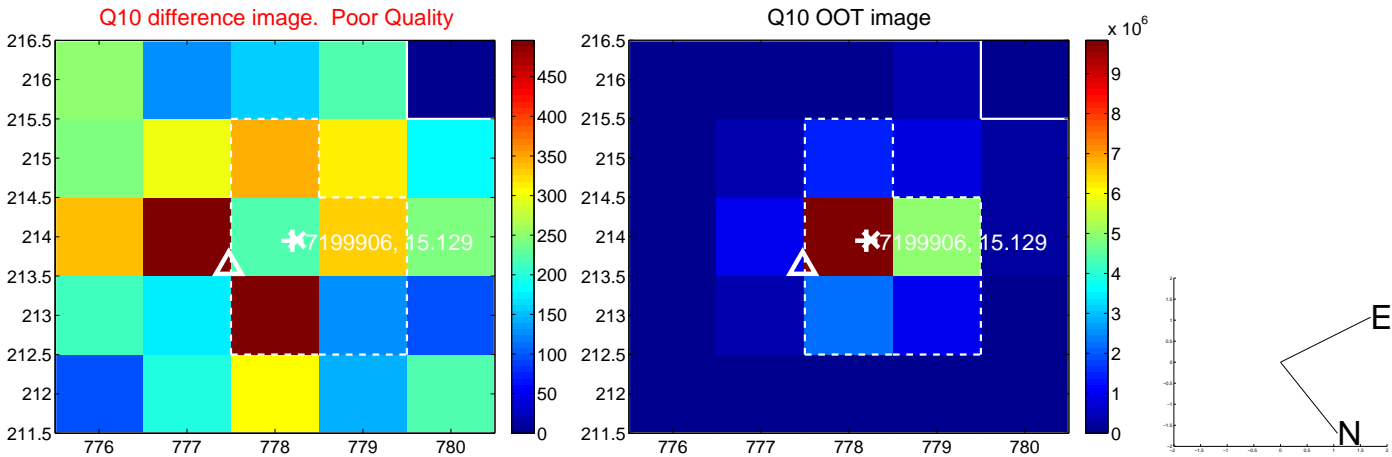
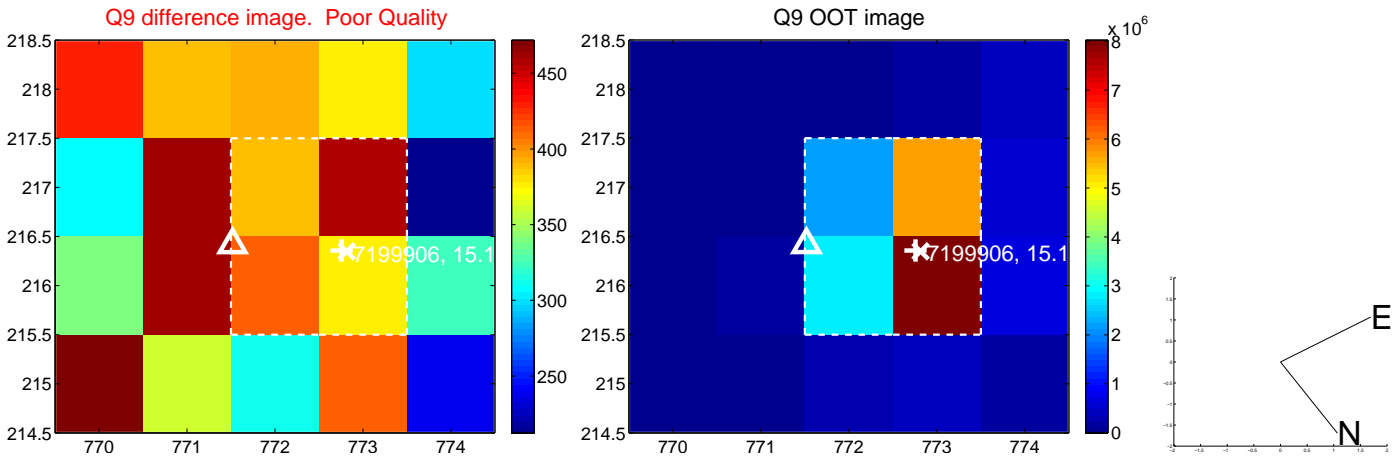
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



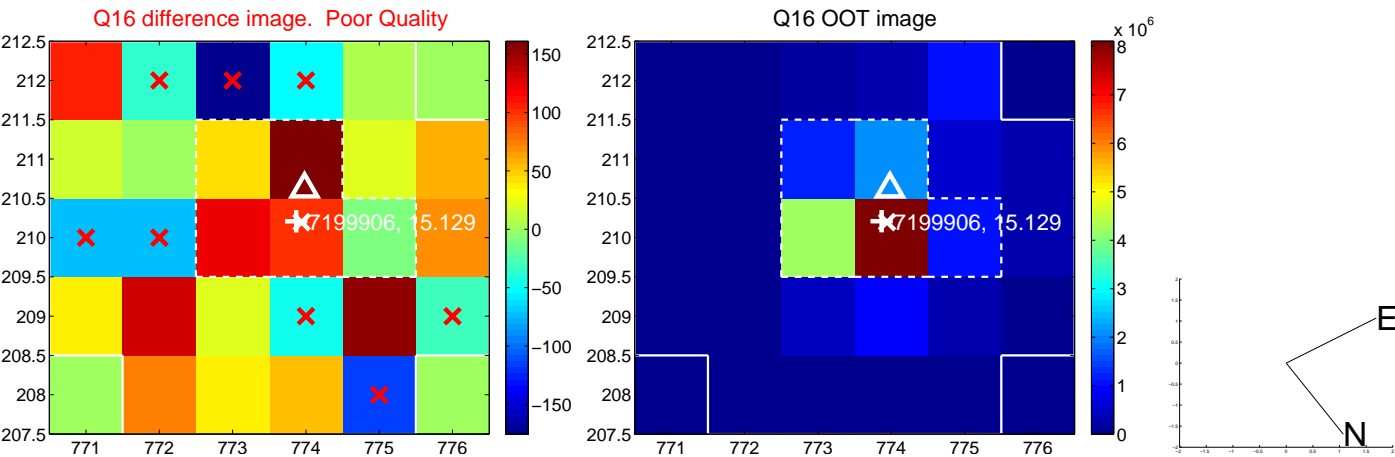
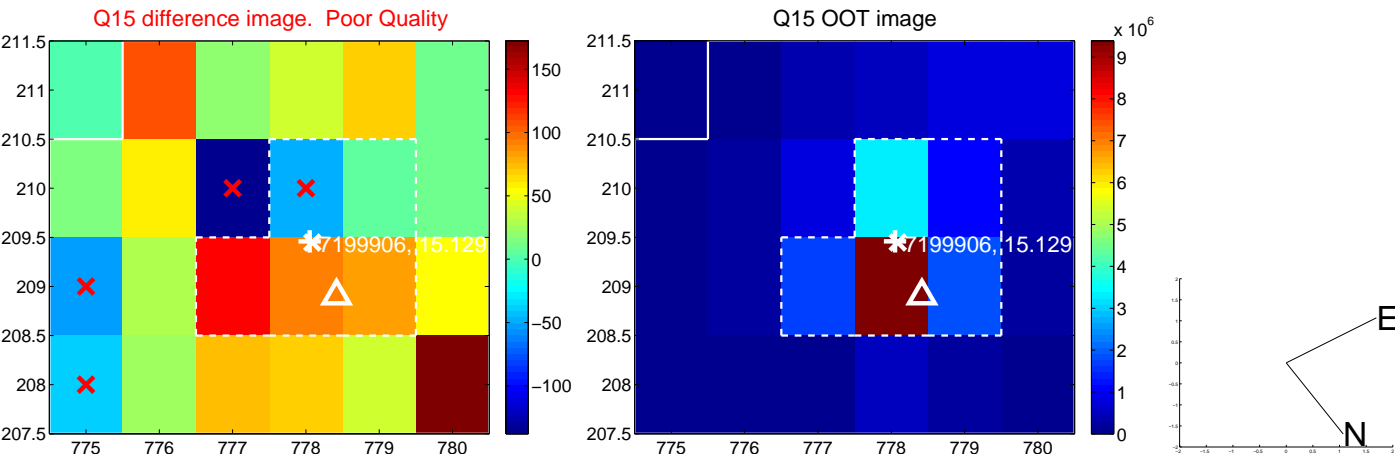
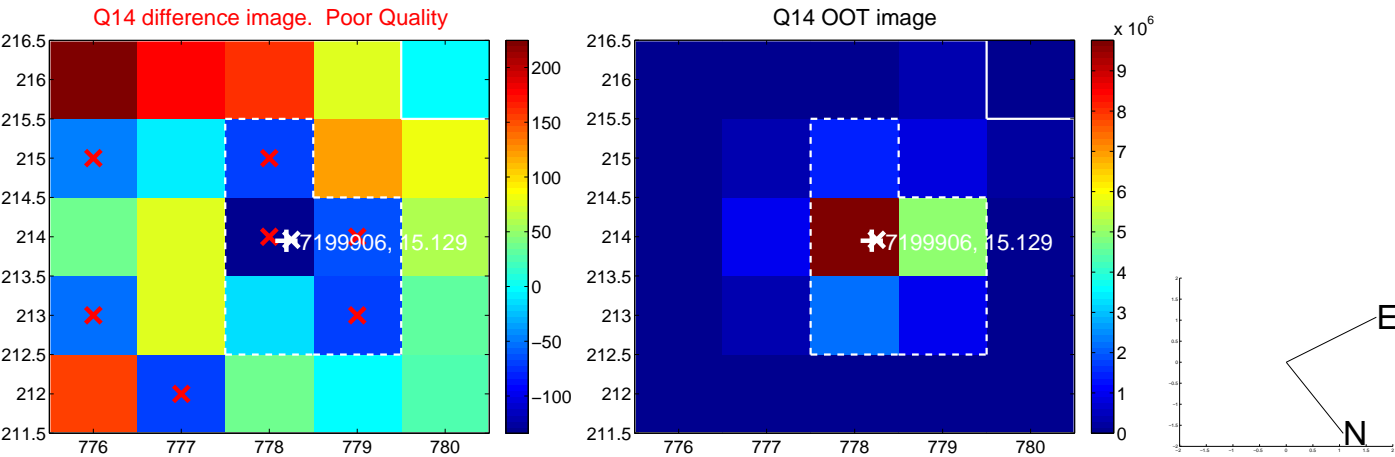
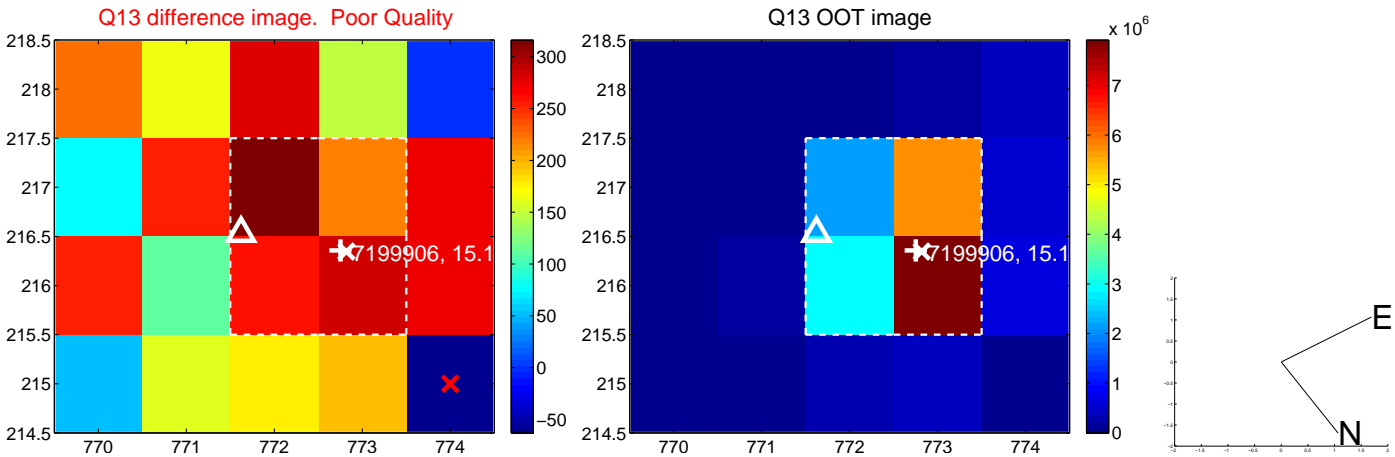
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



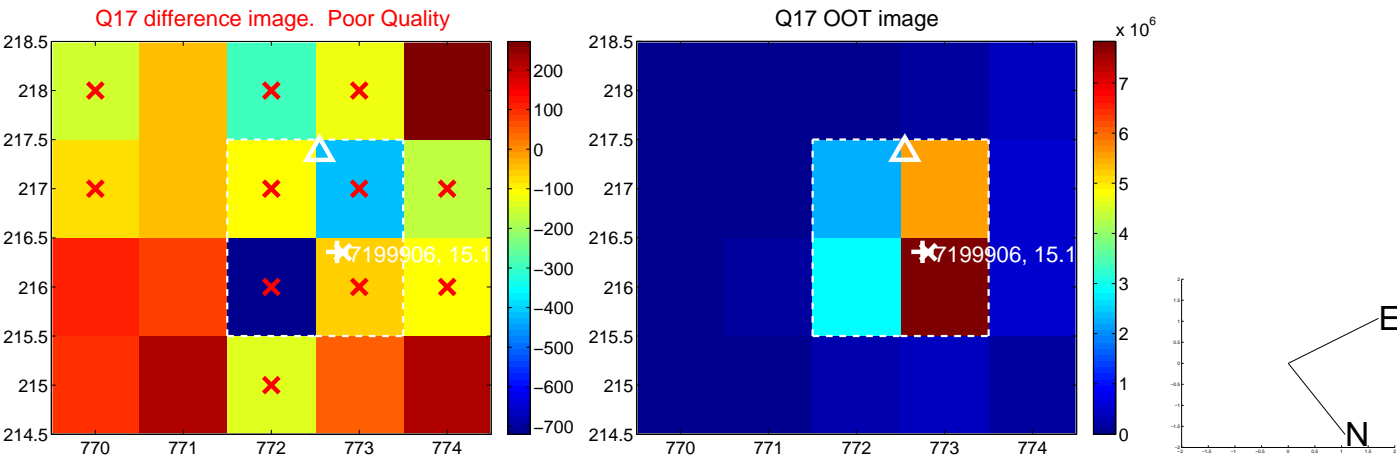
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



folded centroid time series figure for this object.

UKIRT Image

Declination

