

KIC 007198906

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})
007198906-01	OBS	No	0.566011	131.805153	23.2	6.792	41.4	16.4	12.69	6029	7.63	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007198906-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—CENT_UNRESOLVED_OFFSET—HALO_GHOST

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

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

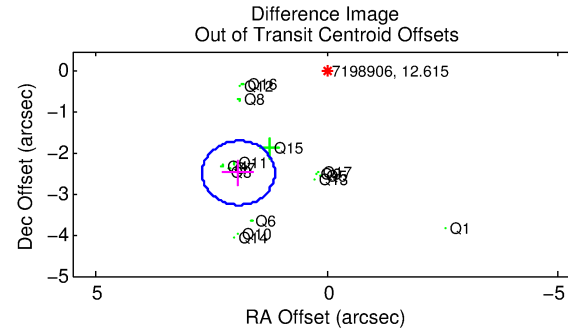
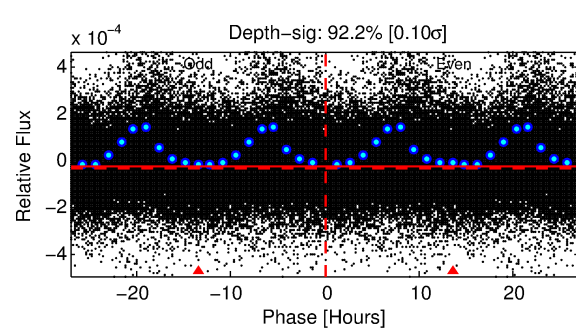
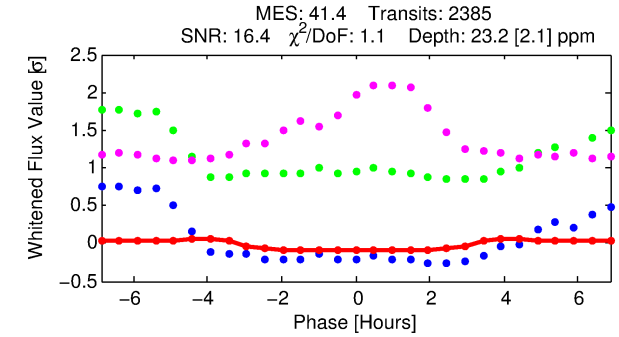
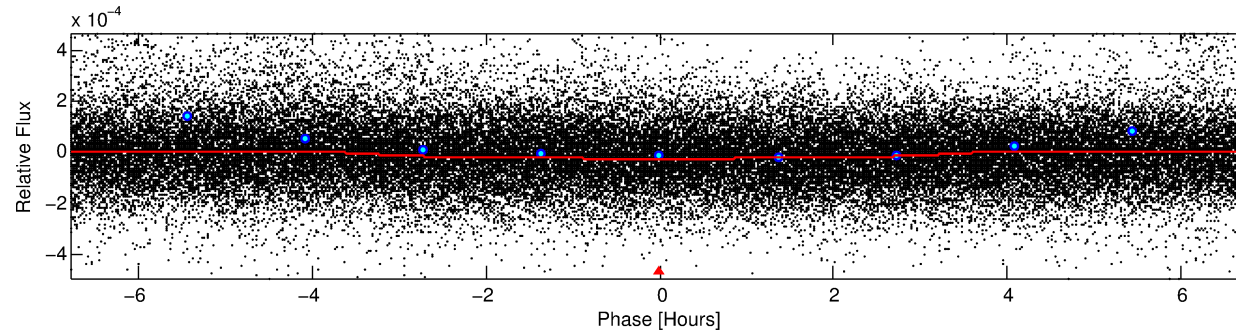
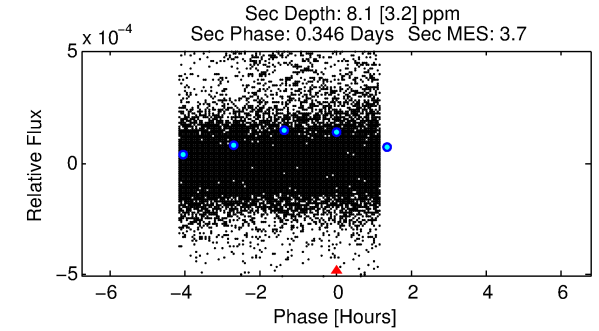
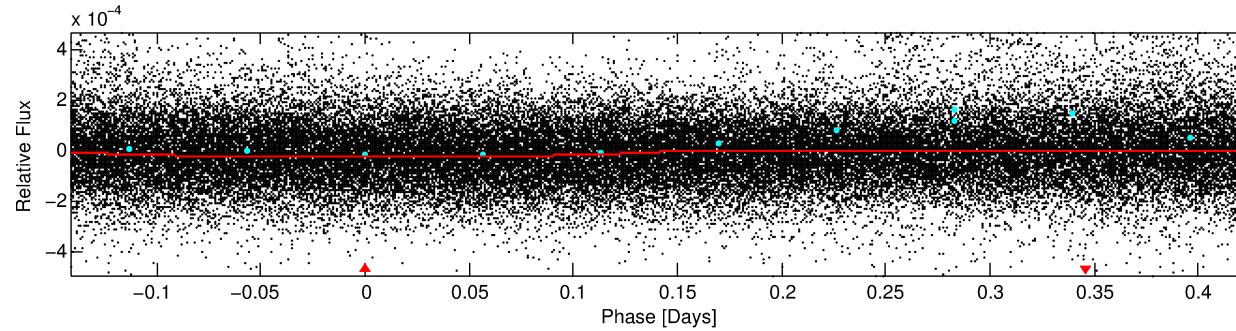
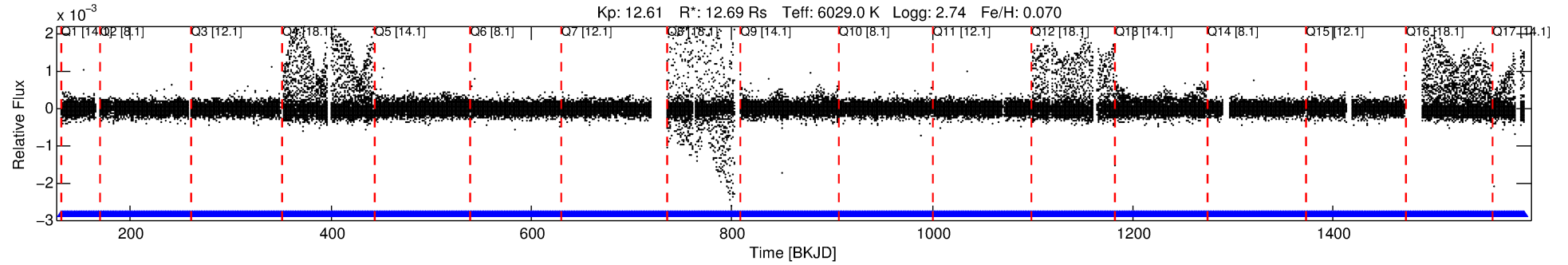
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007198906-01

No Significant Match Found

DV One-Page Summary

KIC: 7198906 Candidate: 1 of 1 Period: 0.566 d



DV Fit Results:

Period = 0.56601 [0.00001] d
Epoch = 131.8052 [0.0038] BKJD
Rp/R* = 0.0055 [0.0006]
a/R* = 1.00 [0.00]
b = 0.95 [0.06]
Seff = N/A
Teq = N/A
Rp = 7.63 [4.49] Re
a = N/A
Ag = N/A
Teff = N/A

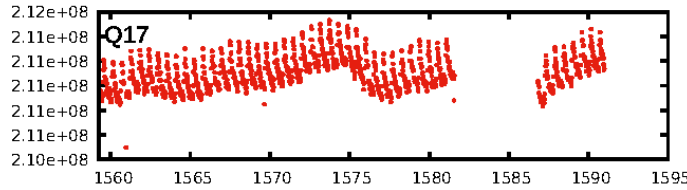
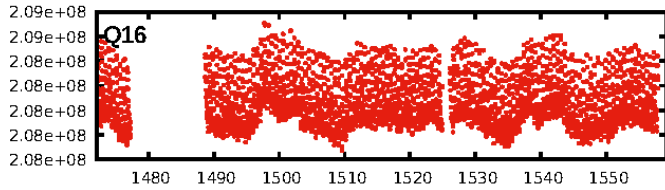
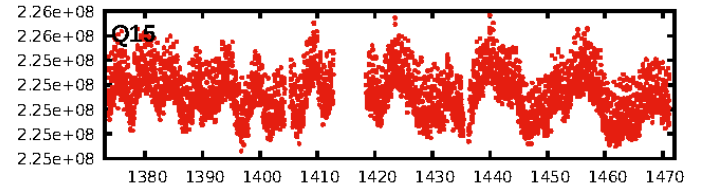
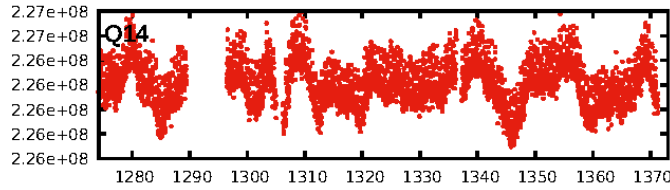
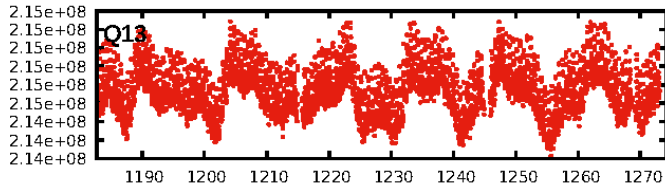
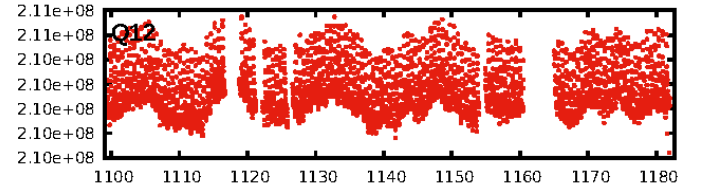
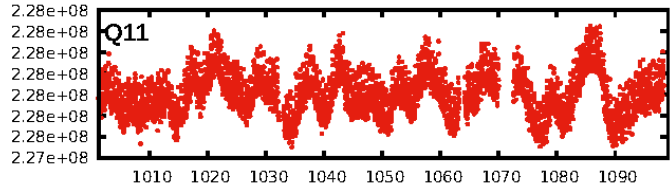
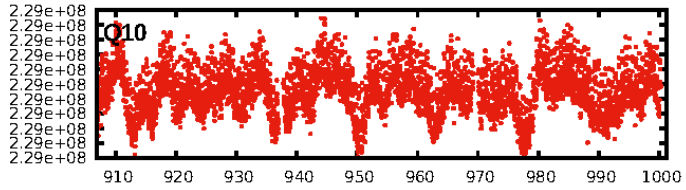
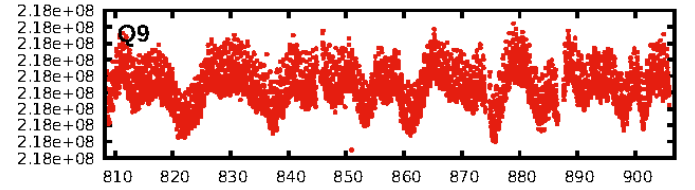
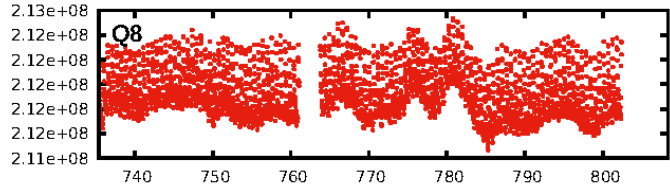
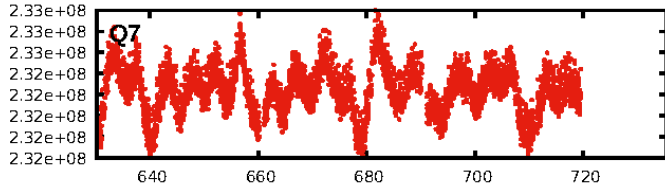
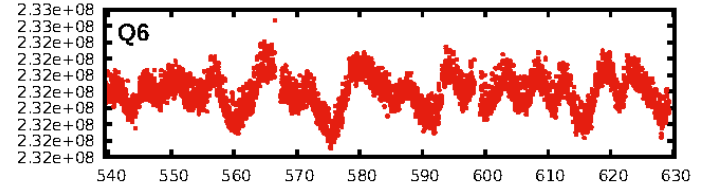
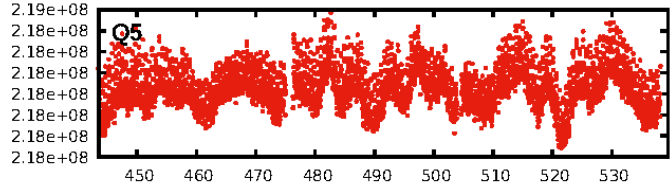
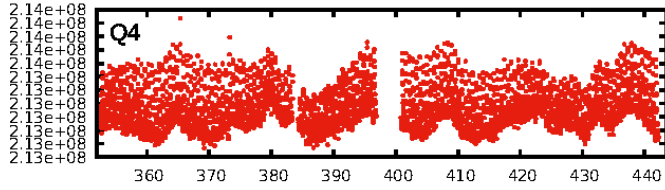
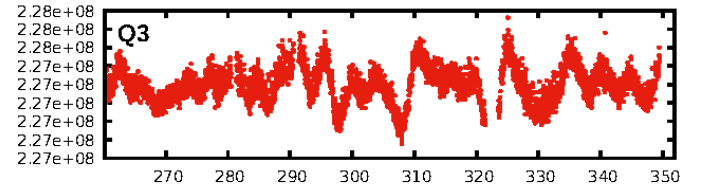
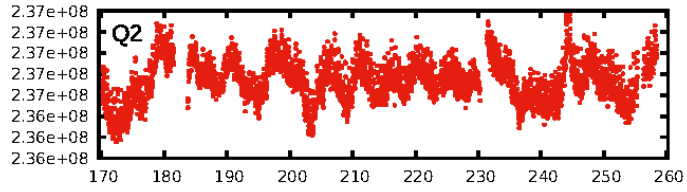
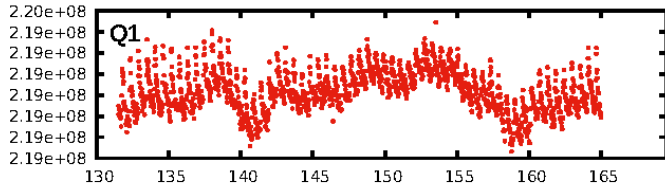
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2278/2278]
GhostDiagnostic-chr: 0.1786
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 3.127 arcsec [11.94σ]
KicOffset-rm: 2.980 arcsec [11.61σ]
OotOffset-st: 3/4/4/5 [16]
KicOffset-st: 3/4/4/5 [16]
DiffImageQuality-fgm: 0.25 [4/16]
DiffImageOverlap-fno: 1.00 [17/17]

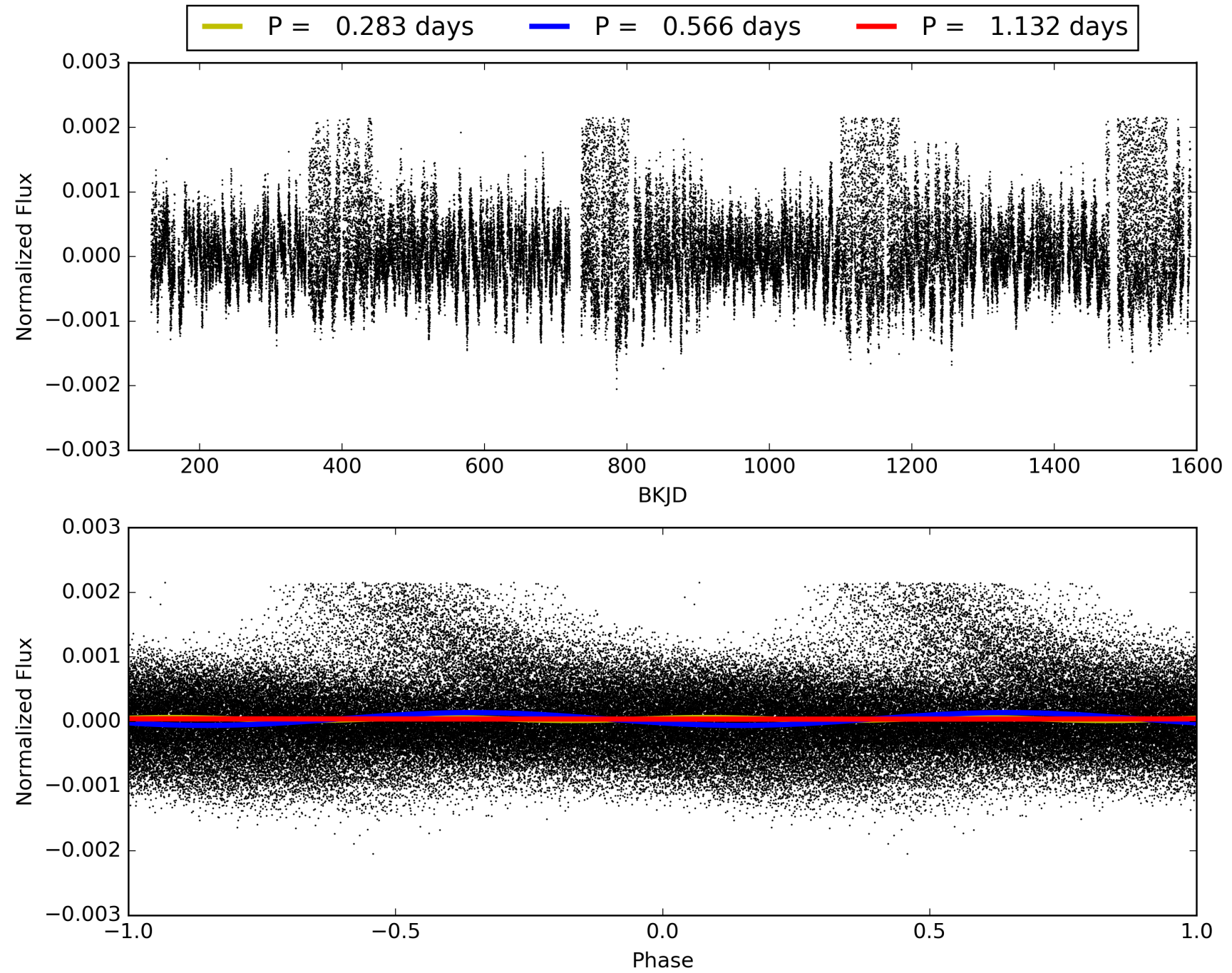
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 15:30:09 Z

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

TCE 007198906-01, PDC Light Curves

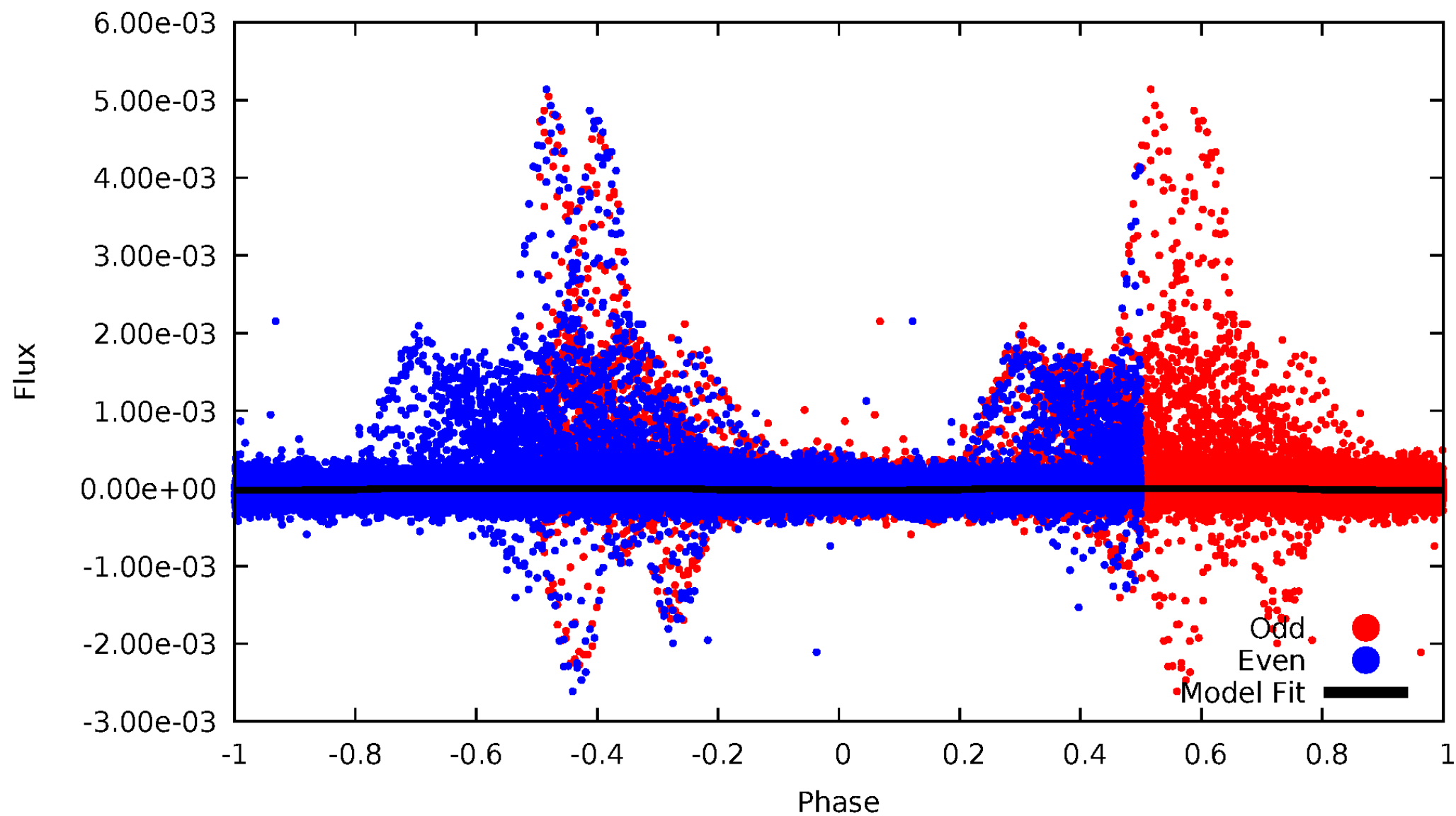


TCE 007198906-01



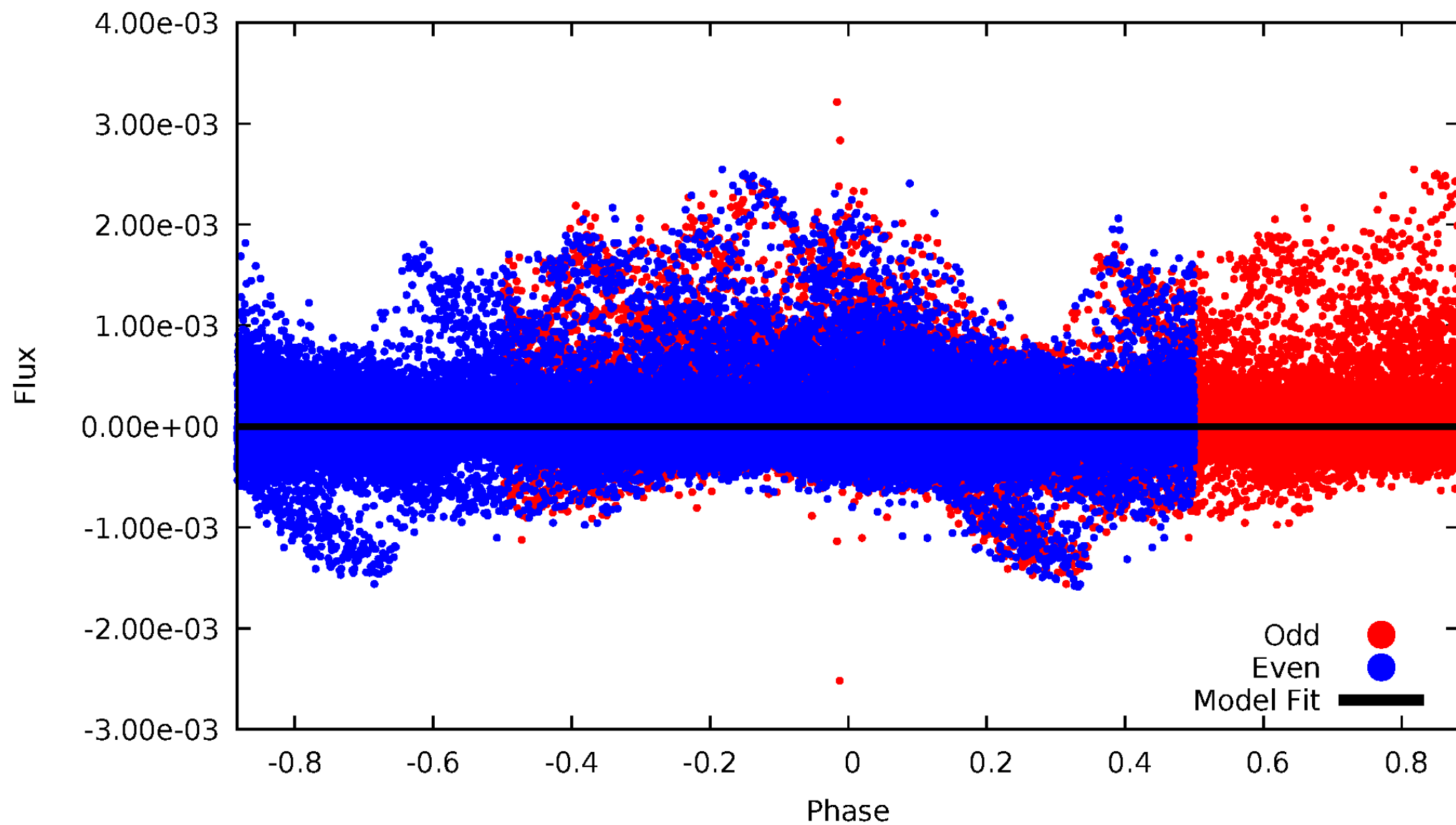
DV Odd/Even

TCE 007198906-01



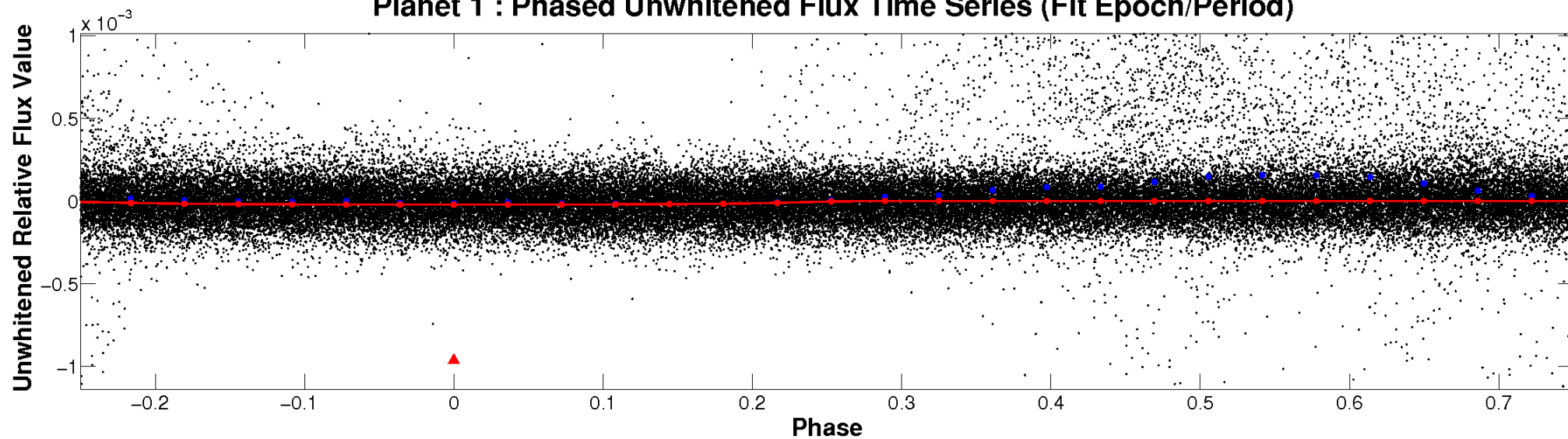
ALT Odd/Even

TCE 007198906-01

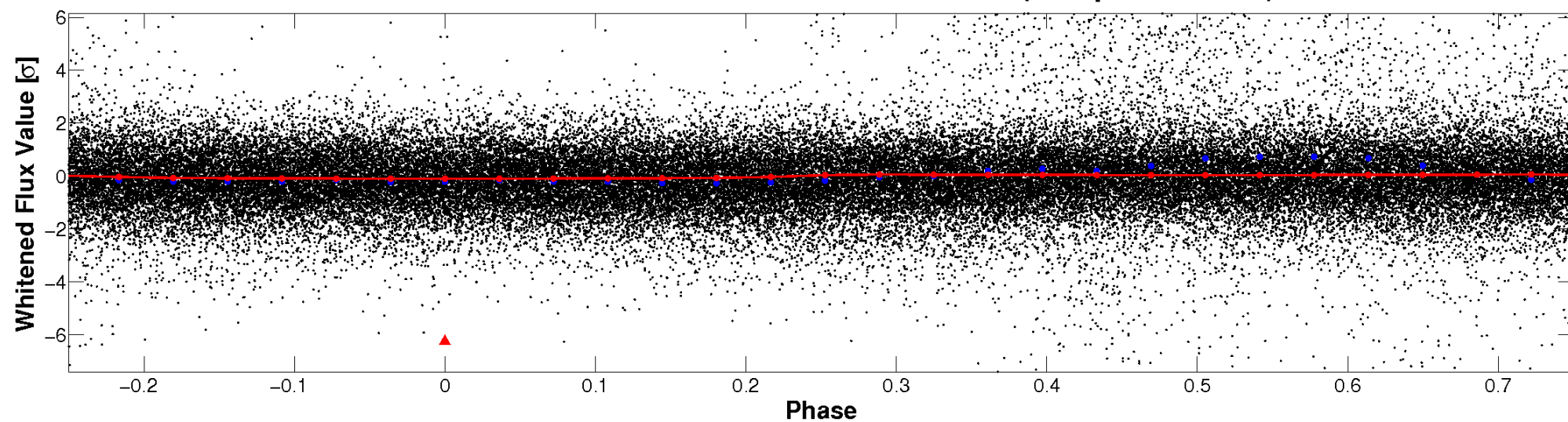


Non-Whitened Vs. Whitened Light Curve

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

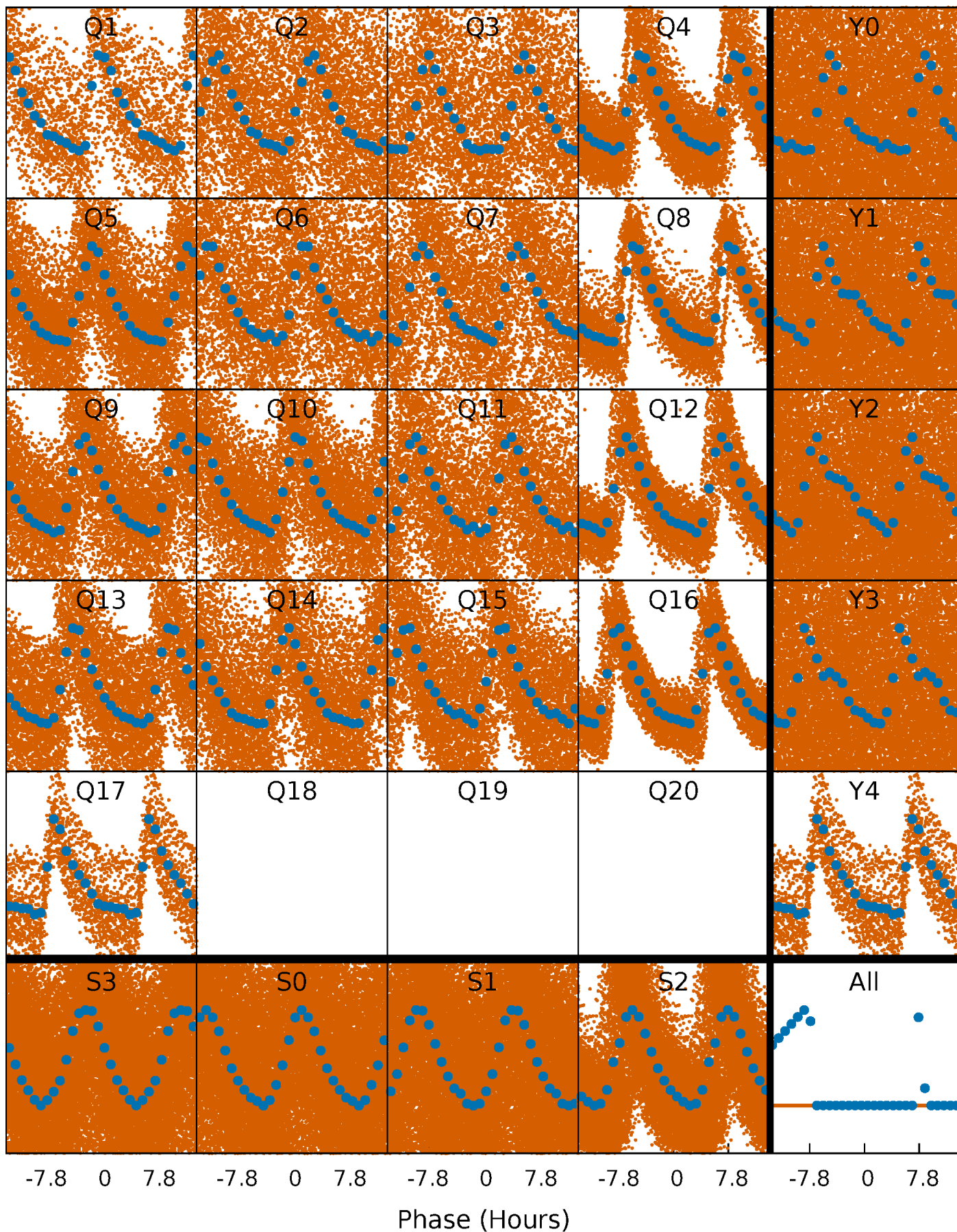


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



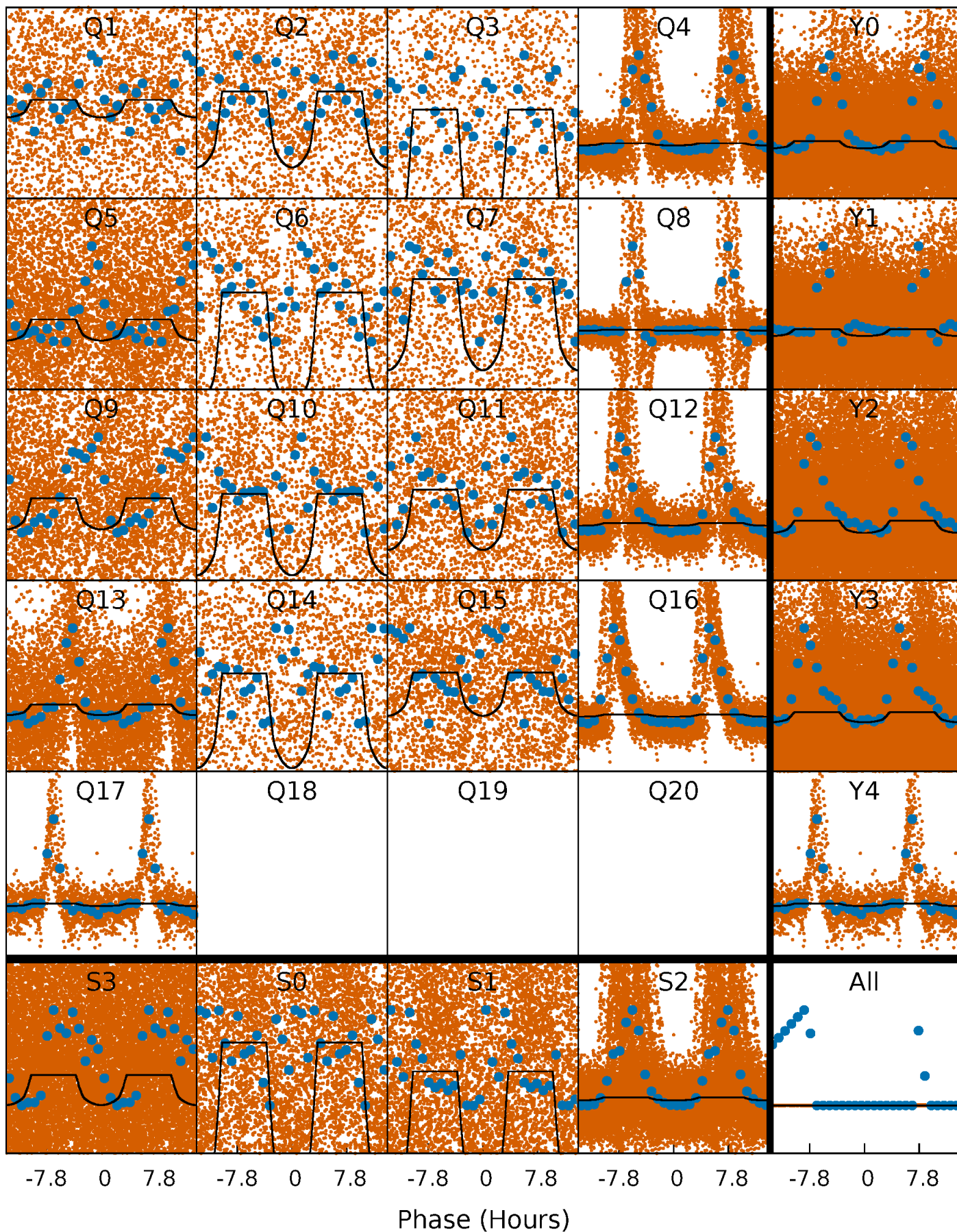
PDC Quarter-Phased Transit Curves

TCE 007198906-01 P= 0.566011 Days $T_0=131.805153$ (BKJD)



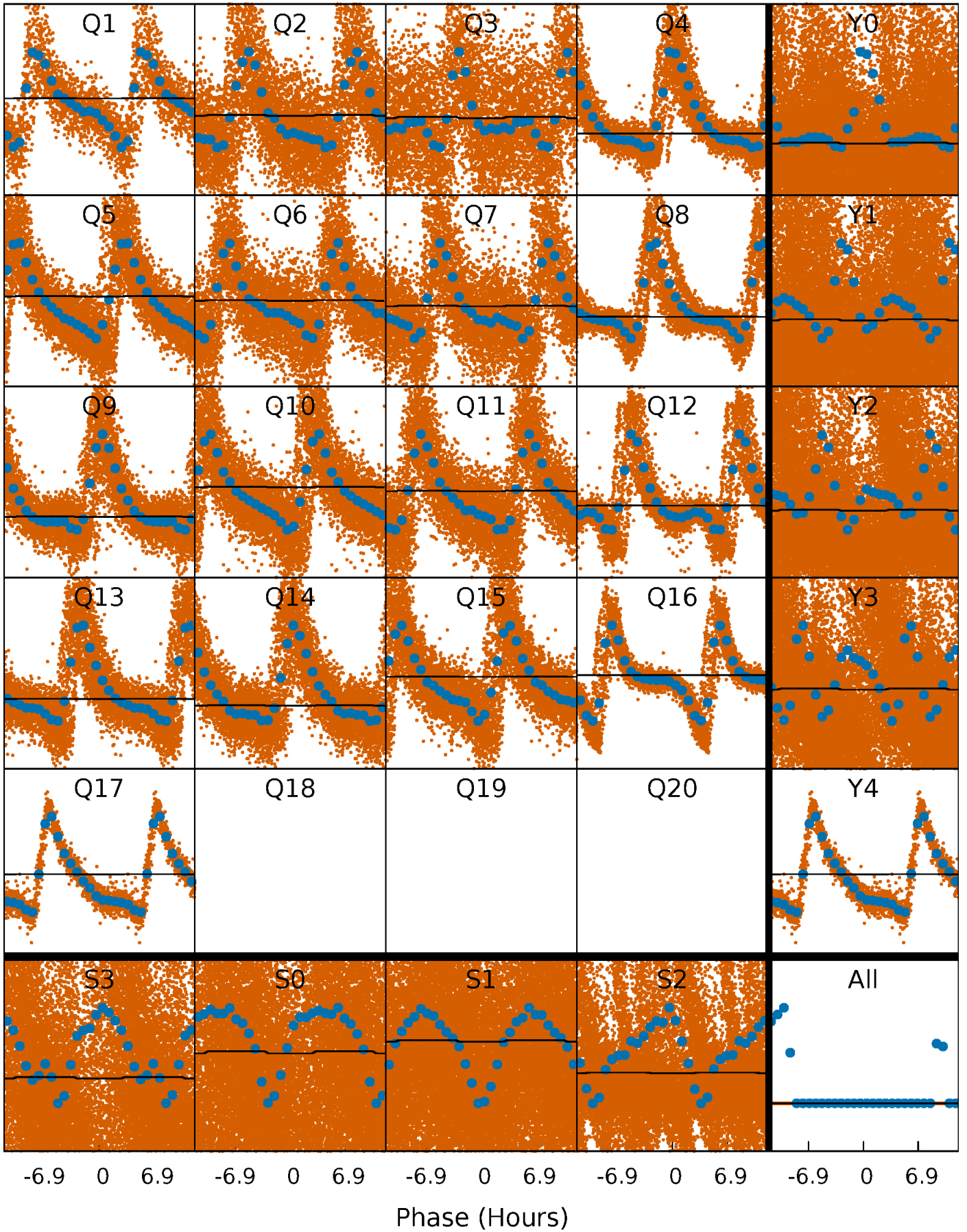
DV Quarter-Phased Transit Curves

TCE 007198906-01 P= 0.566011 Days $T_0=131.805153$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

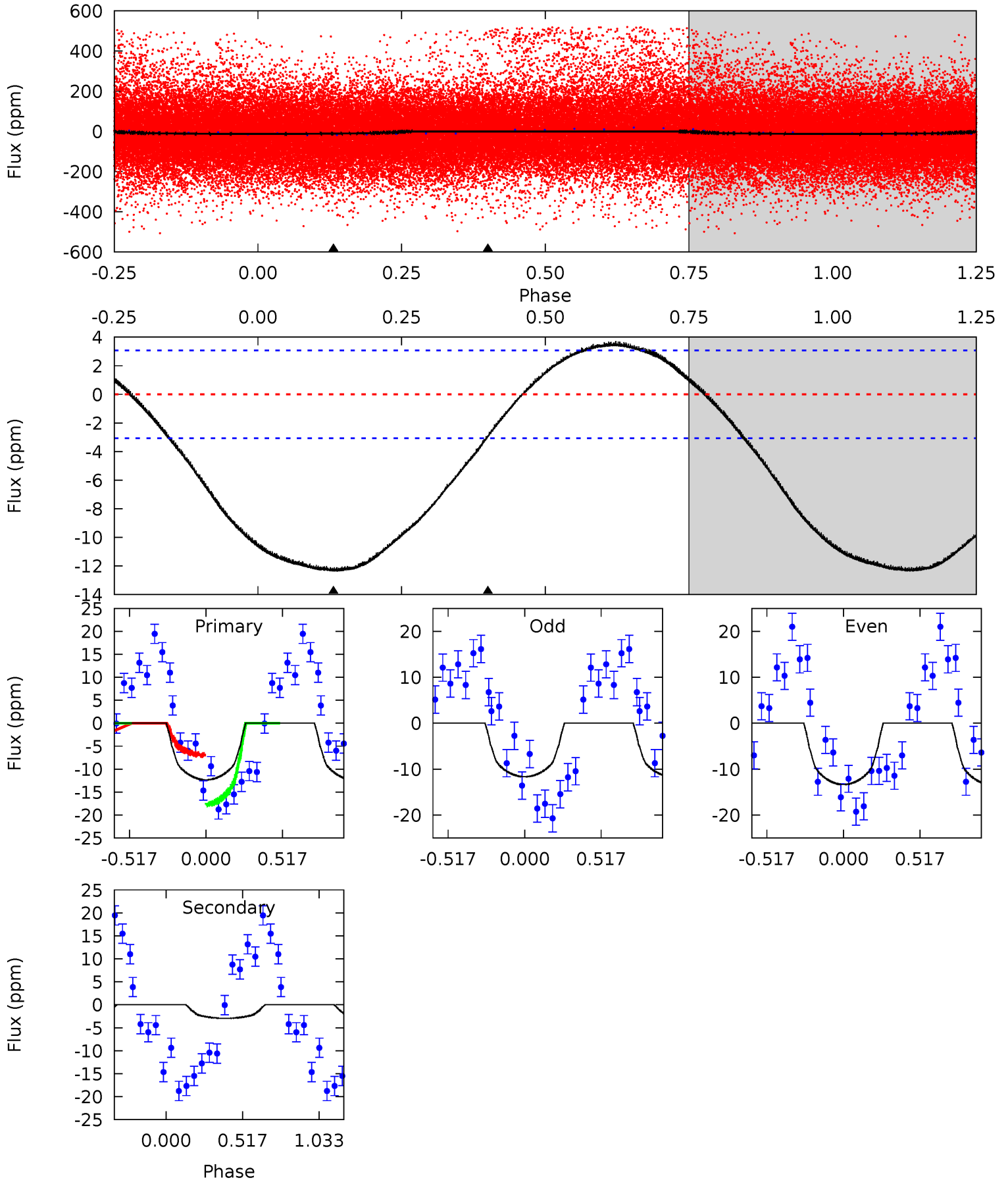
TCE 007198906-01 P= 0.566103 Days $T_0=131.560536$ (BKJD)



DV Model-Shift Uniqueness Test

007198906-01, P = 0.566011 Days, E = 131.239142 Days

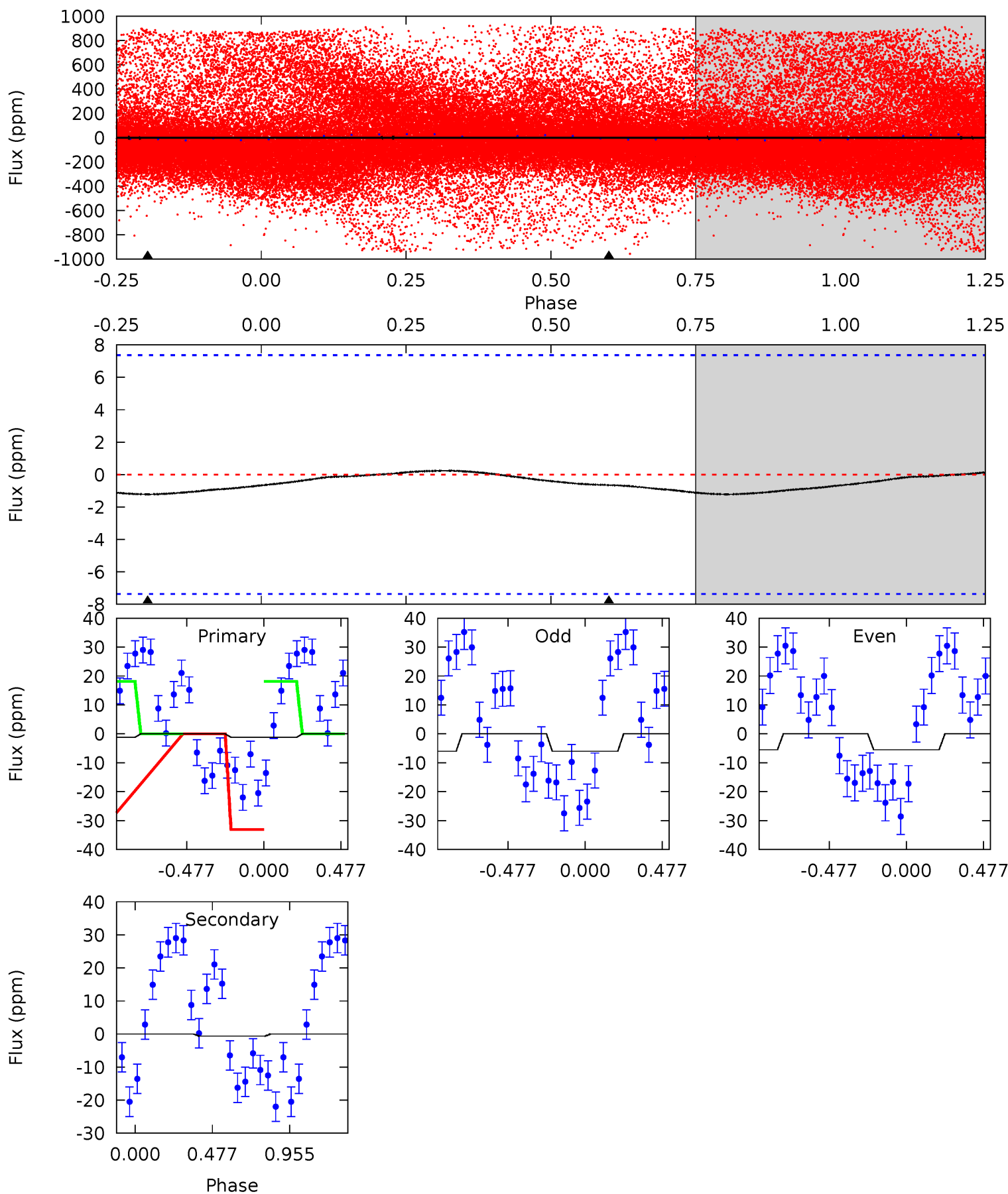
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.9	4.05	0	0	4.21	0.65	1.56	16.9	16.9	4.05	4.05	1.18	1.13	0.23	8.31



Alt Model-Shift Uniqueness Test

007198906-01, P = 0.566103 Days, E = 130.994433 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.70	0.37	0	0	4.23	0.71	0.04	0.70	0.70	0.37	0.37	0.16	-1.78	0.16	4.85



Stellar Parameters For KIC 007198906

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6029^{+126}_{-198}	$2.744^{+0.552}_{-0.097}$	$0.070^{+0.250}_{-0.450}$	$12.690^{+1.297}_{-7.349}$	$3.256^{+0.067}_{-1.282}$	$0.002^{+0.016}_{-0.001}$
	+2%/-3%	+20%/-4%	+357%/-643%	+10%/-58%	+2%/-39%	+730%/-32%
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 007198906-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-3 ± 1	$7.08^{+1.32}_{-2.03}$	9195^{+529}_{-1325}	-7582^{+1247}_{-544}	$0.013^{+0.011}_{-0.005}$
Alt.	-1 ± 2	$2.06^{+0.89}_{-0.81}$	9199^{+559}_{-1388}	-7307^{+1785}_{-901}	$0.030^{+0.126}_{-0.082}$

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 $A_{obs} \gg 1.0$

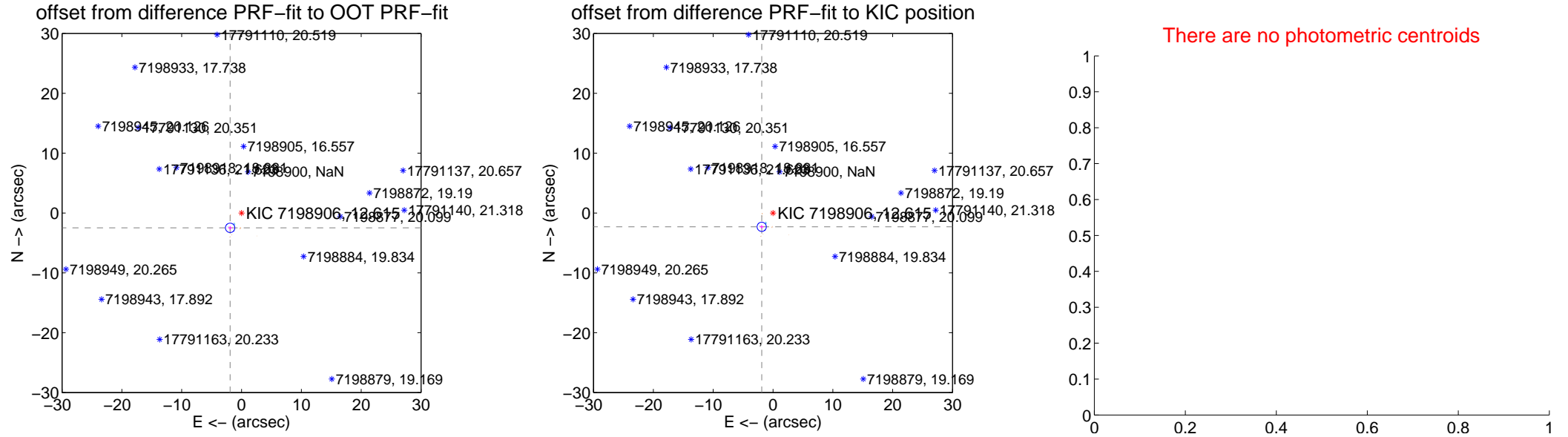
DV Centroid Data

Supplemental centroid analysis for 007198906-01. Kepler magnitude: 12.62. Transit SNR 16.42

There are 4 quarters with good PRF difference image offsets

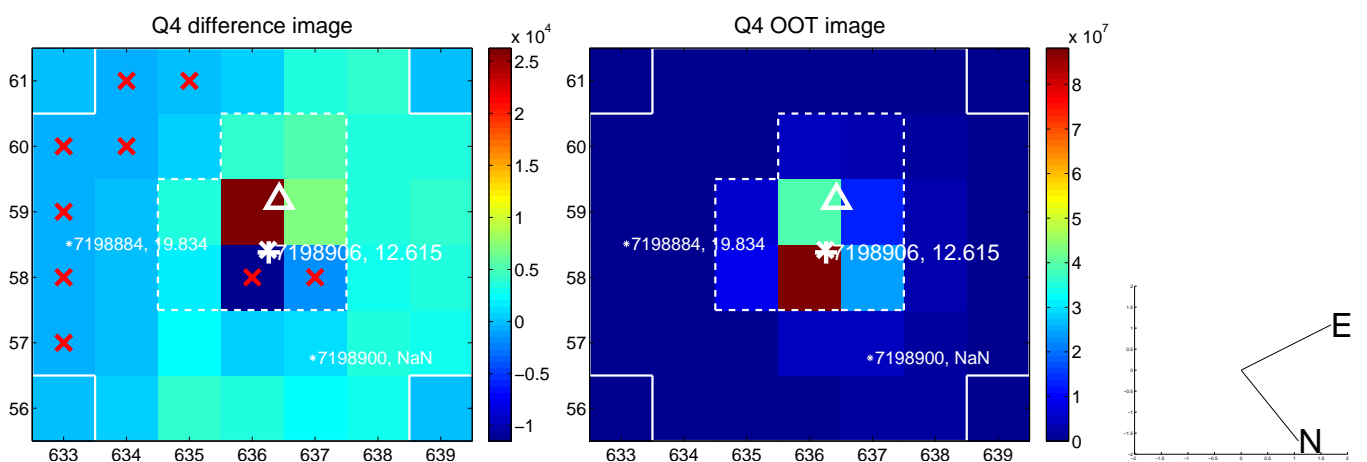
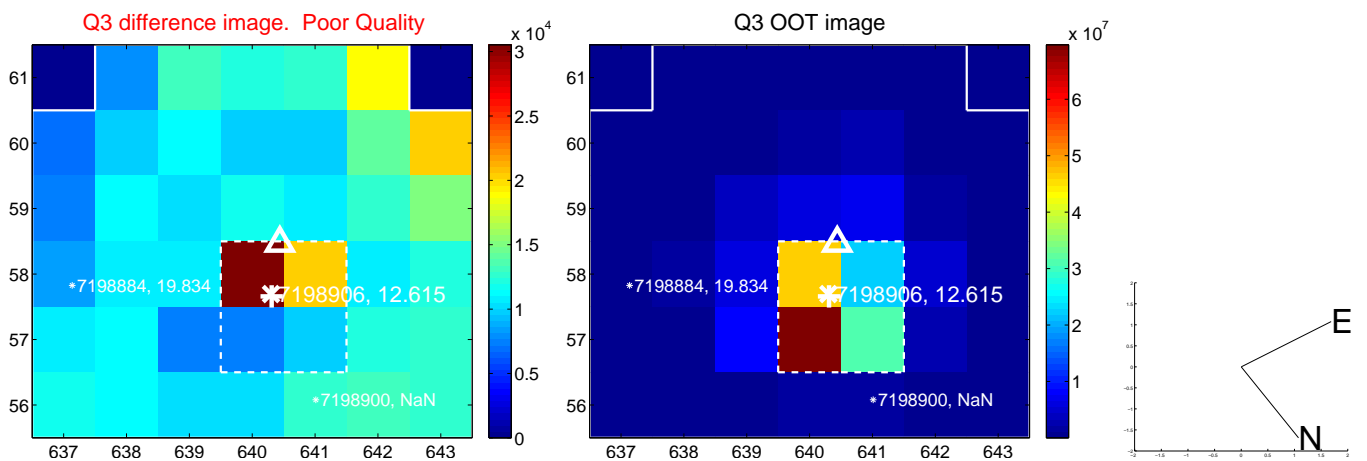
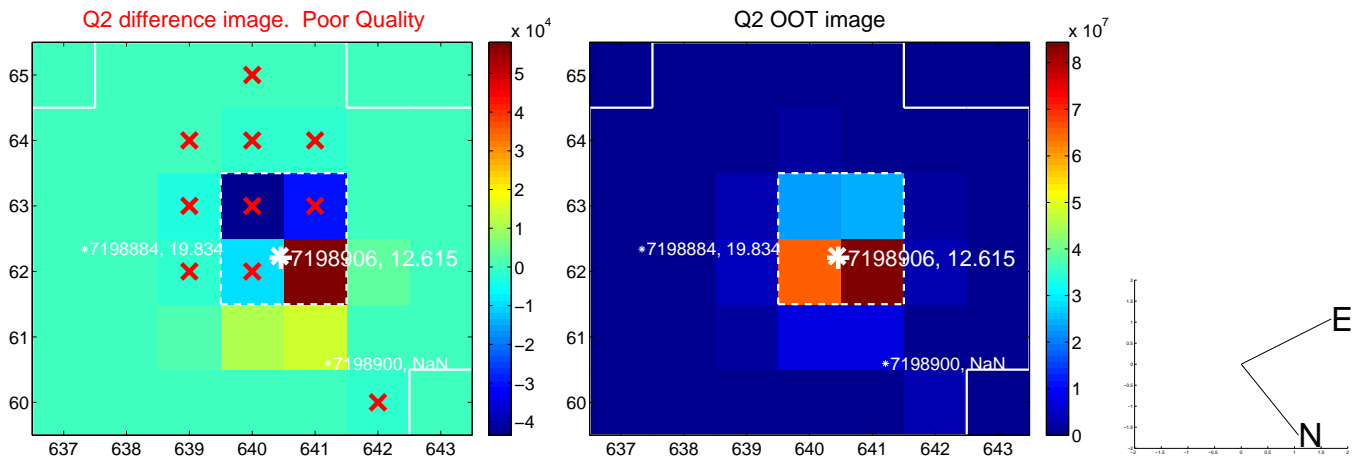
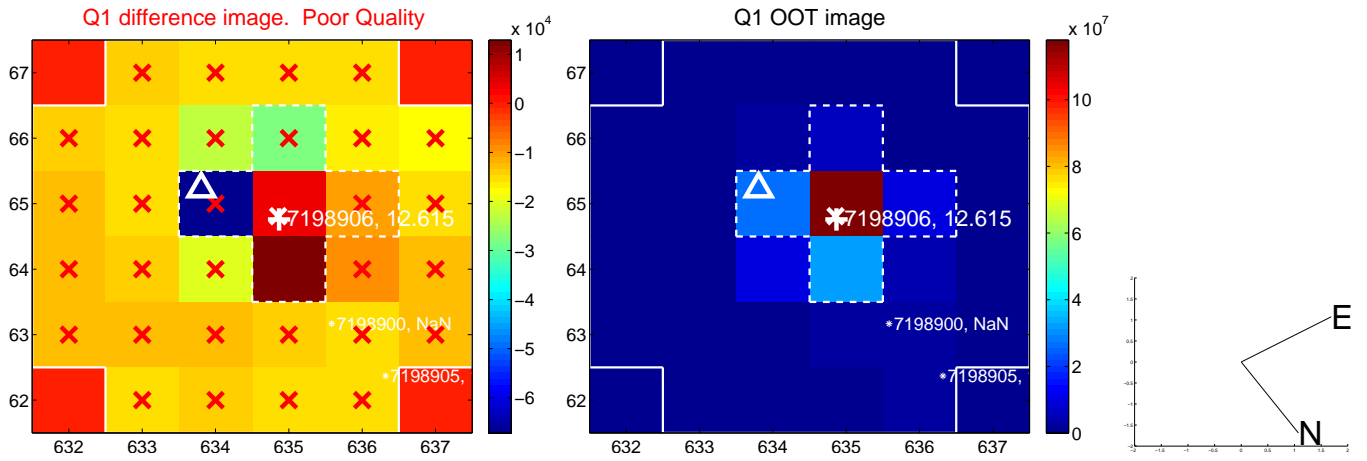
The direct PRF centroid is offset from the target star catalog position by about 0.21 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.127 ± 0.262	11.94	1.908 ± 0.326	-2.477 ± 0.294
PRF-fit source offset from KIC position	2.980 ± 0.257	11.61	1.888 ± 0.349	-2.306 ± 0.282
photometric centroid source offset	—	—	—	—

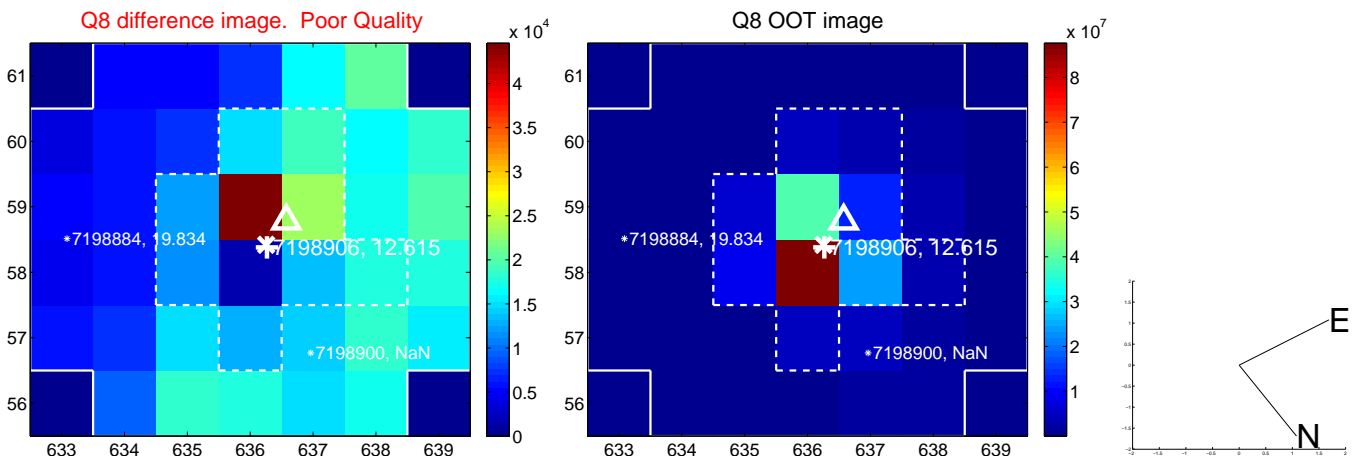
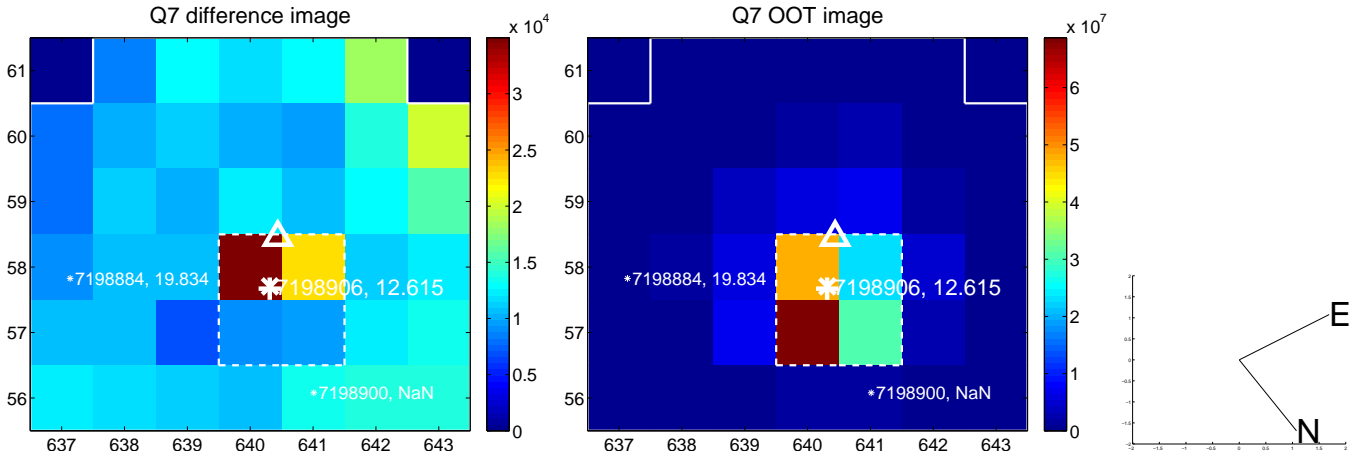
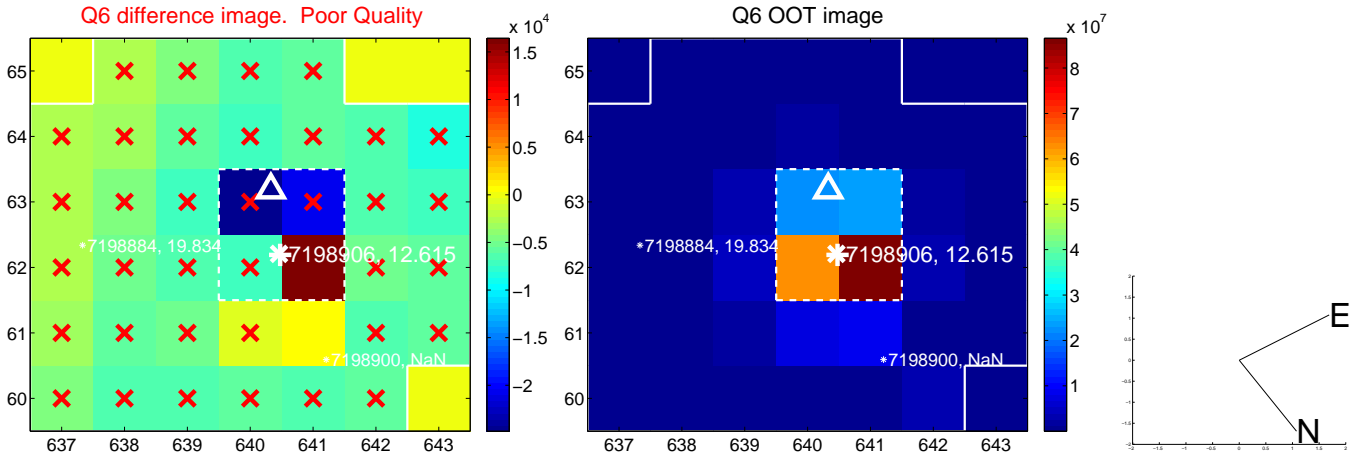
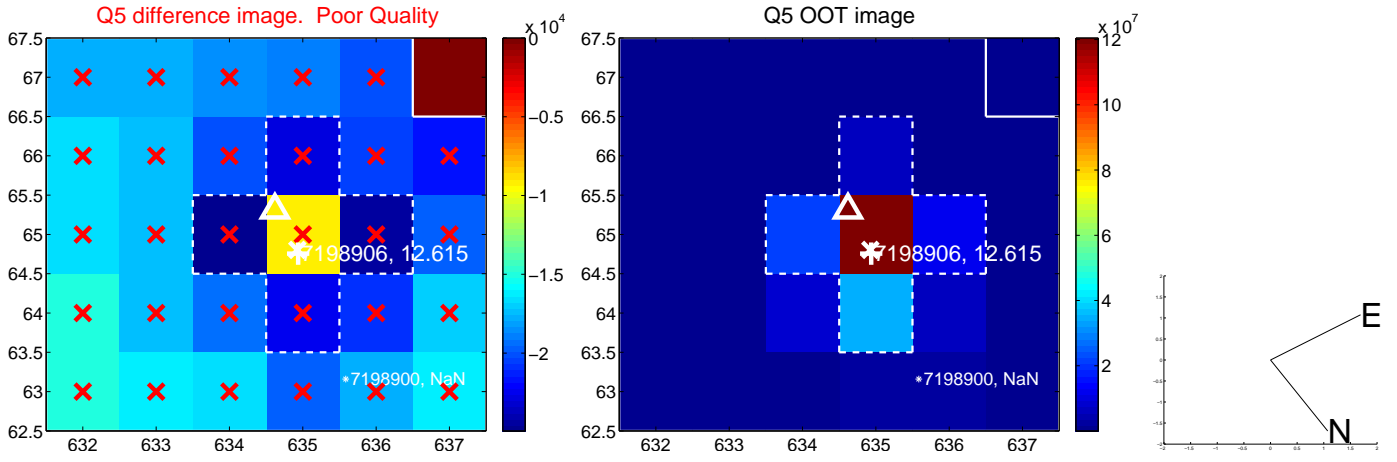


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

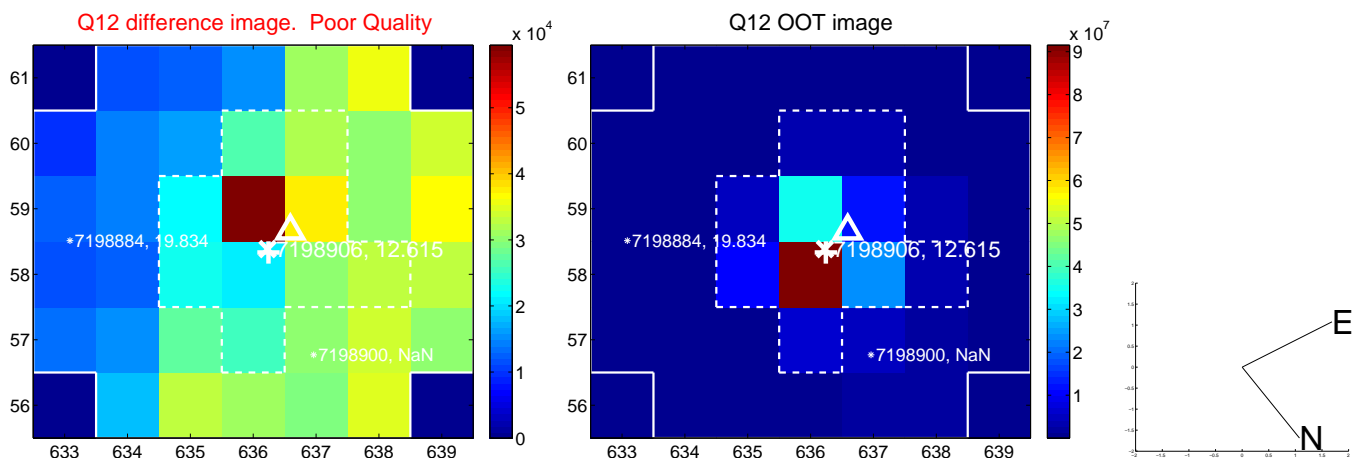
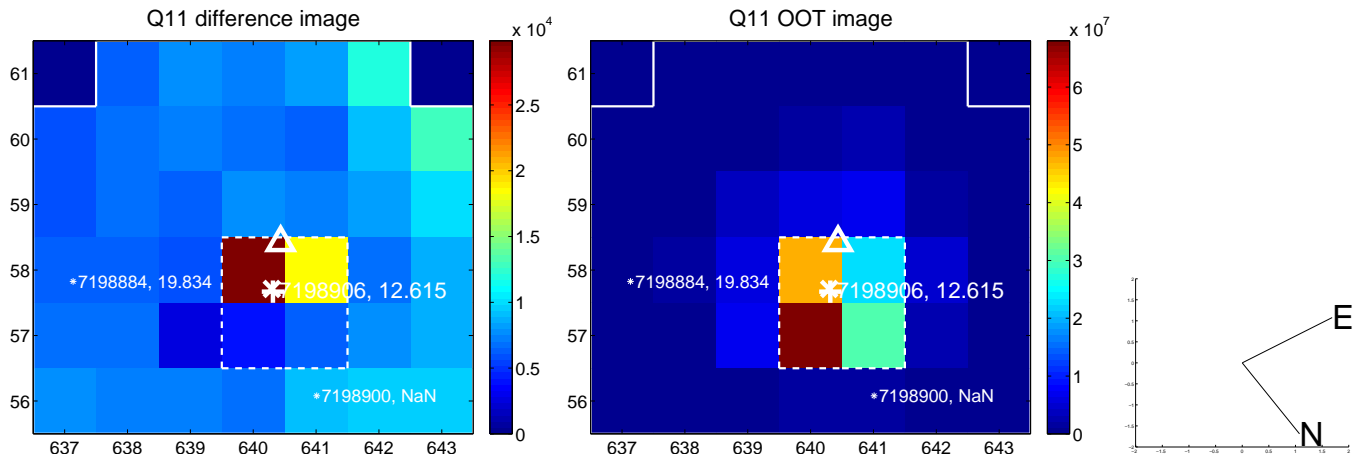
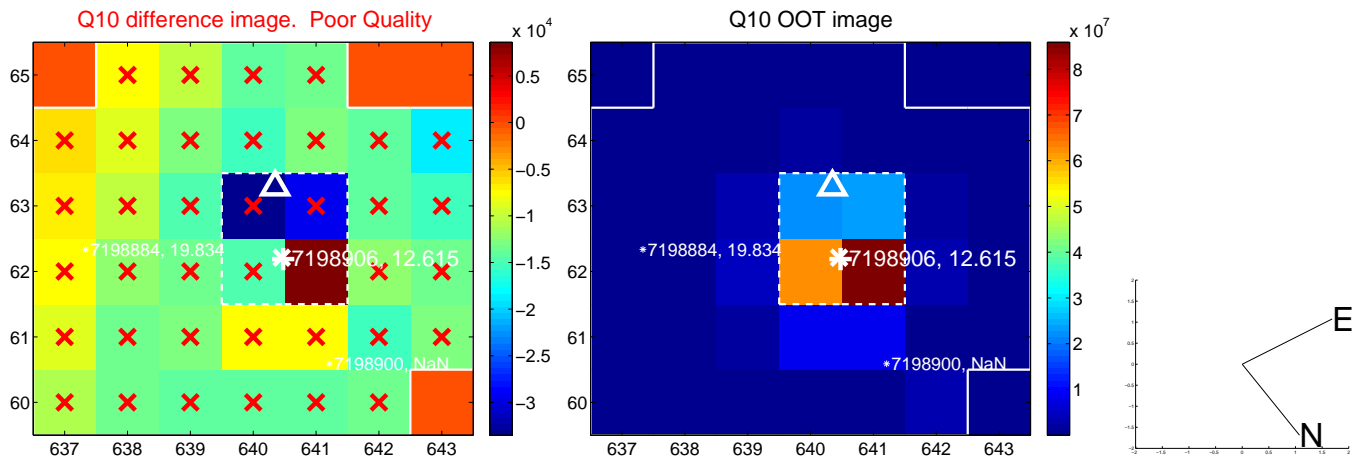
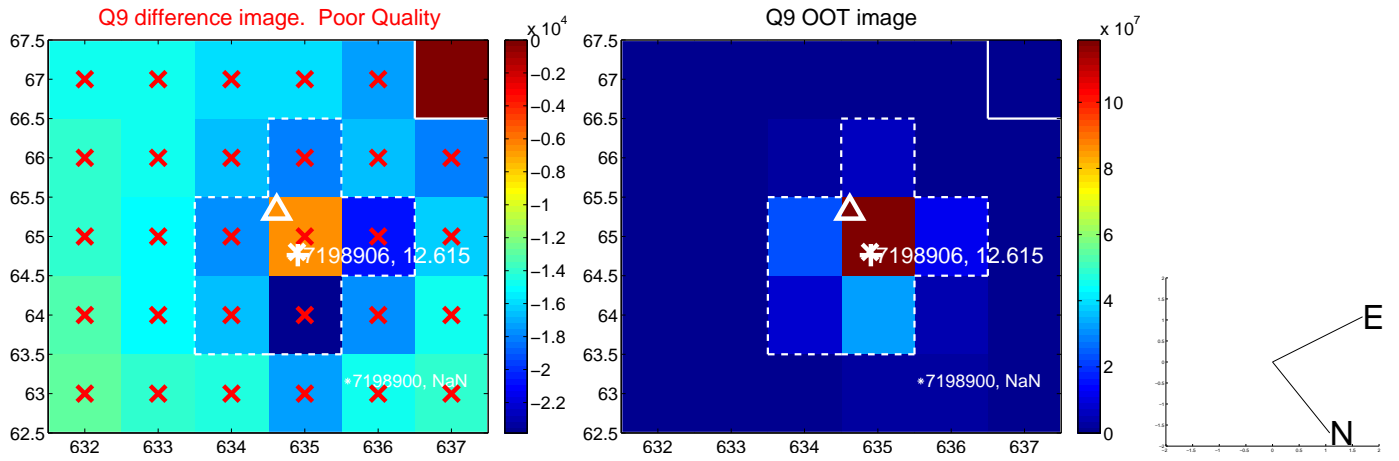
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



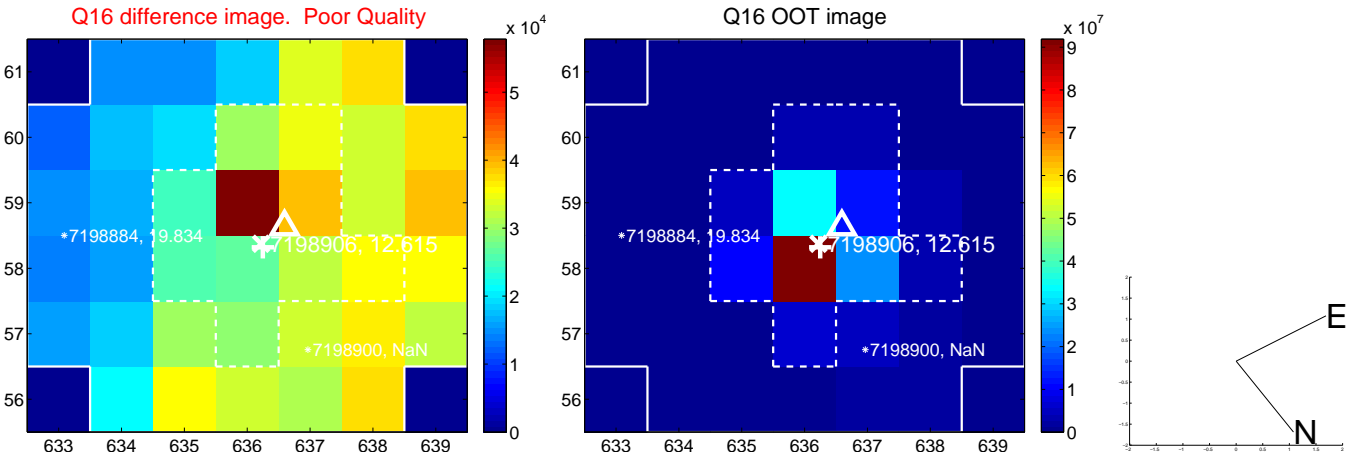
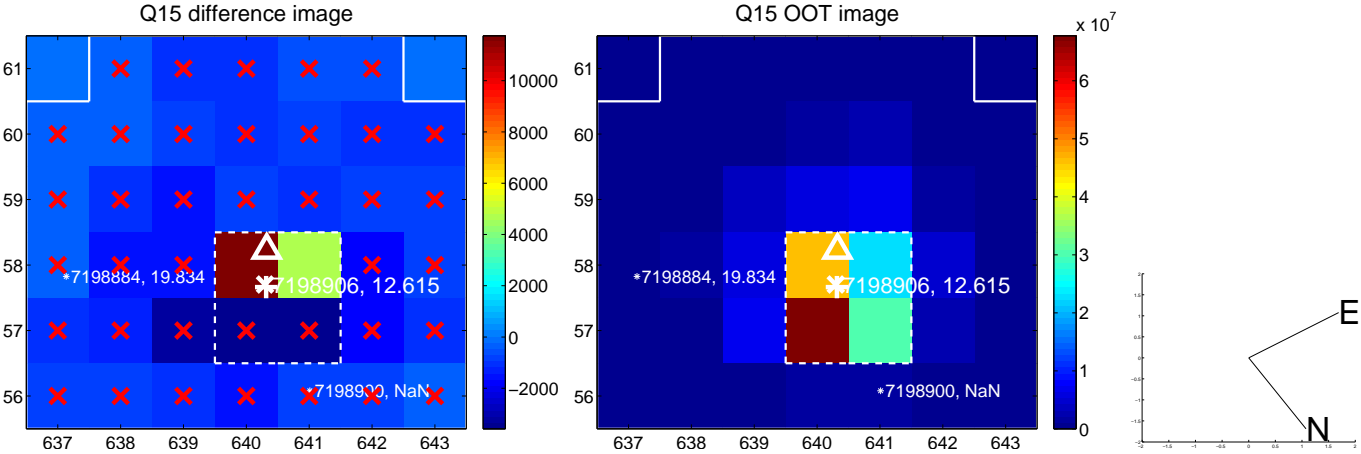
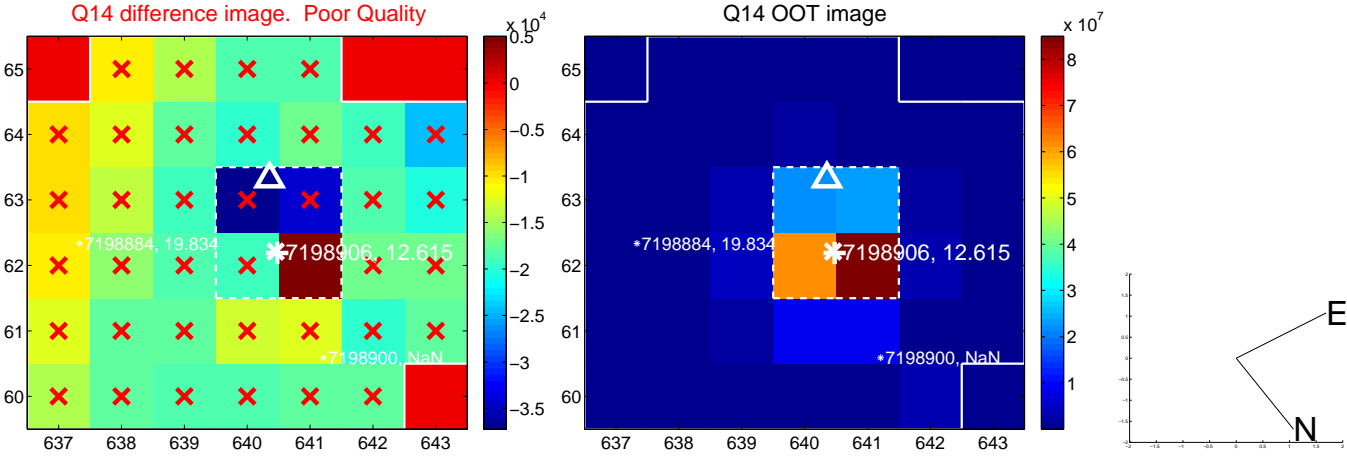
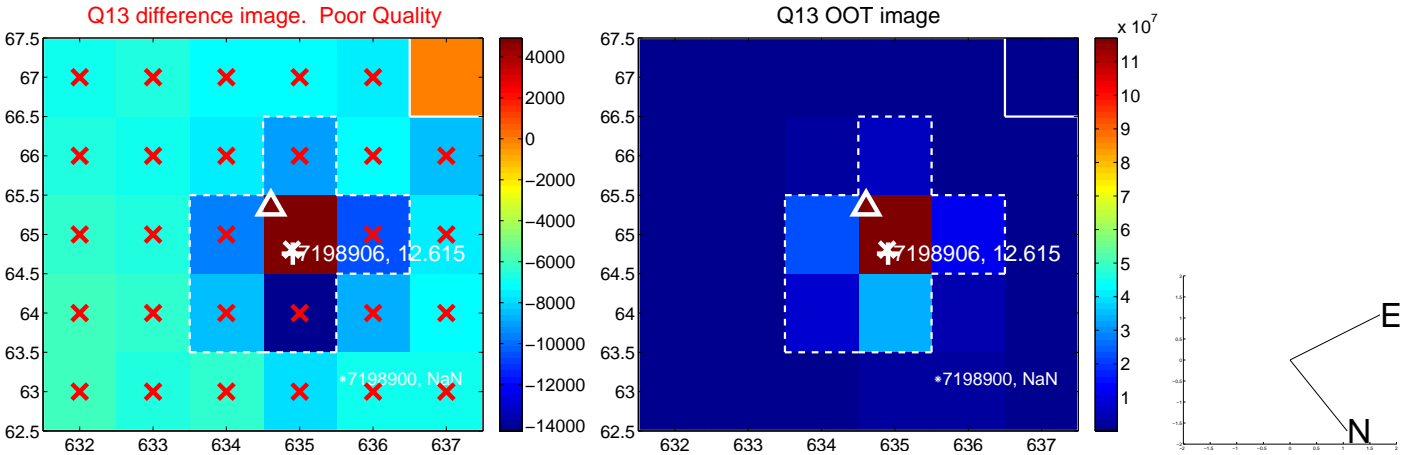
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



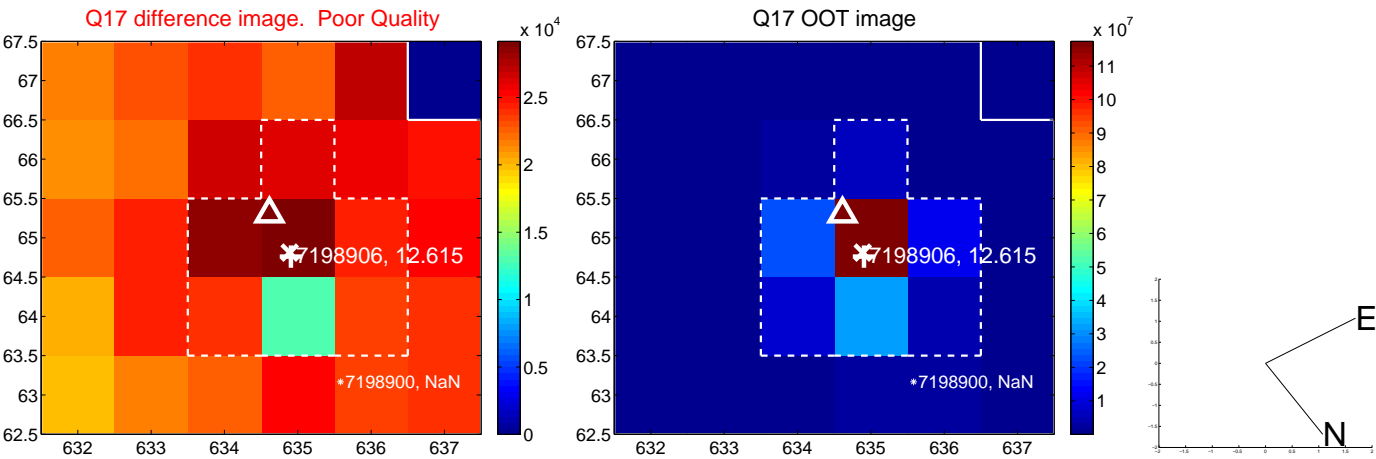
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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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

