

KIC 011955208

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})
011955208-01	OBS	No	1.184858	132.621916	0.7	3.349	10.9	0.0	0.42	3604	0.04	96.09

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011955208-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—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.

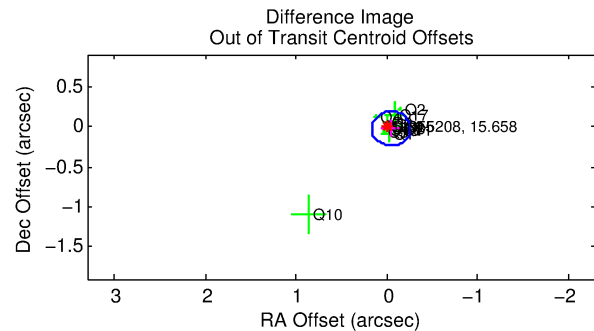
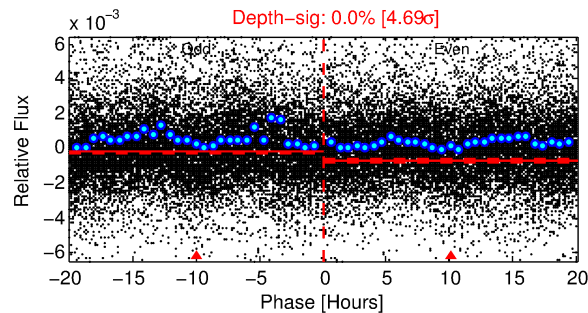
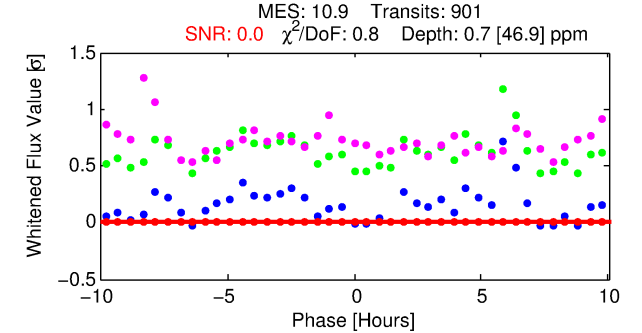
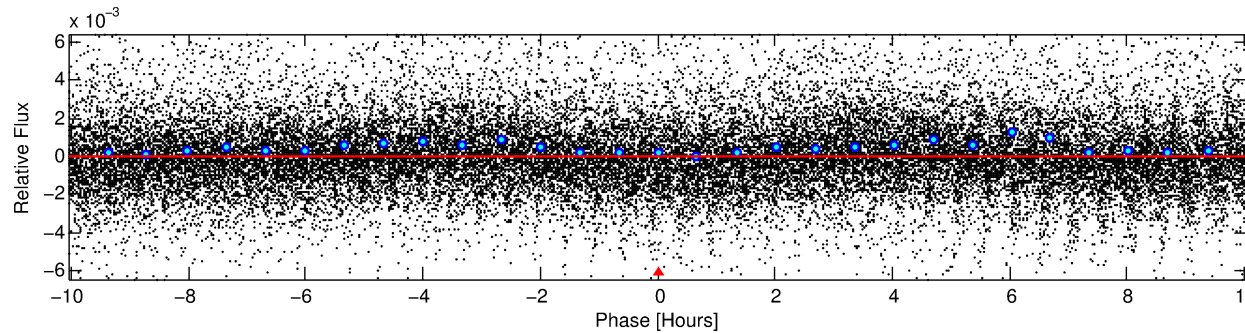
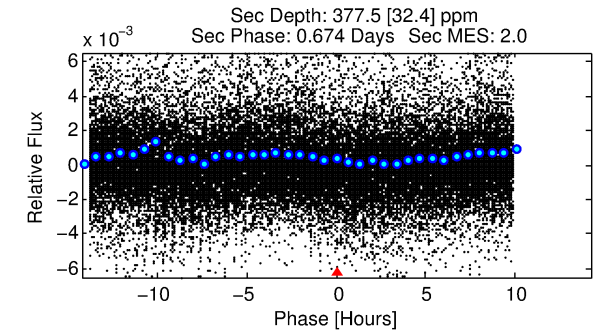
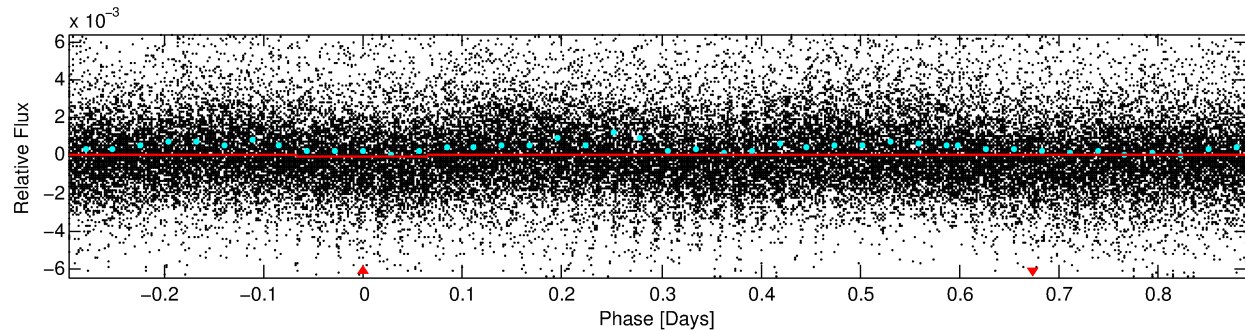
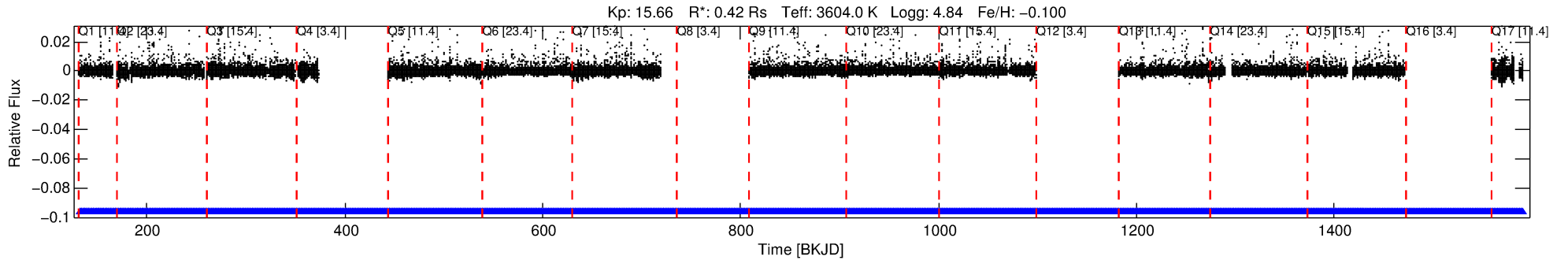
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011955208-01

No Significant Match Found

DV One-Page Summary

KIC: 11955208 Candidate: 1 of 1 Period: 1.185 d



DV Fit Results:

Period = 1.18486 [0.00587] d
Epoch = 132.6219 [1.1761] BKJD
Rp/R* = 0.0009 [0.0363]
a/R* = 1.36 [48.00]
b = 0.94 [10.45]
Seff = 96.09 [13.63]
Teff = 798 [28] K
Rp = 0.04 [1.67] Re
a = 0.0167 [0.0015] AU
Ag = 30975.08 [2391962.58] [0.01σ]
Teffp = 16375 [316150] K [0.05σ]

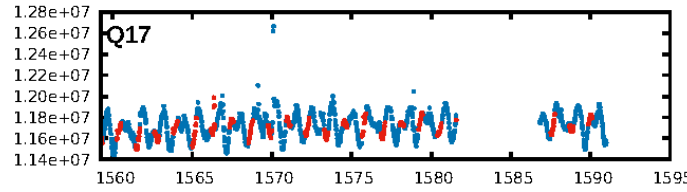
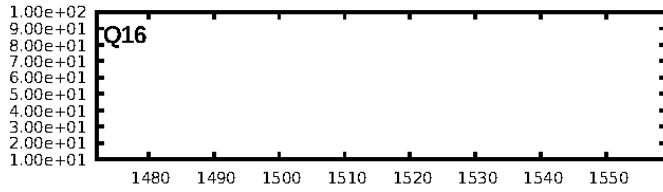
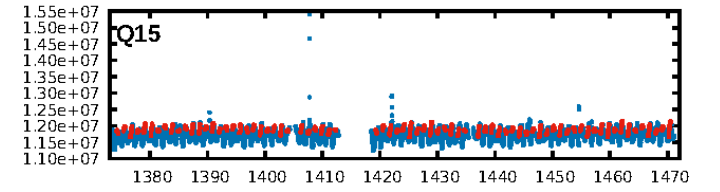
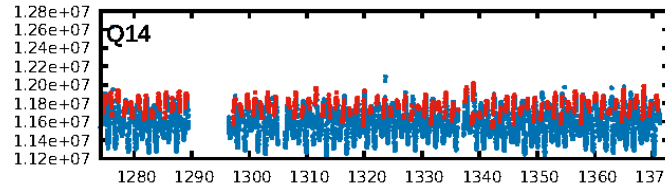
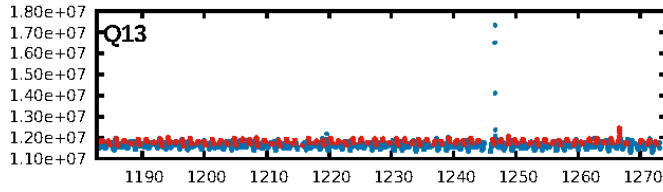
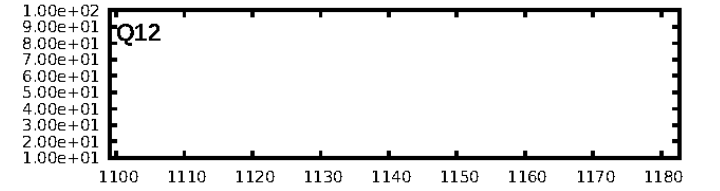
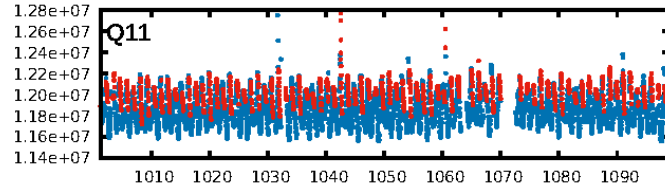
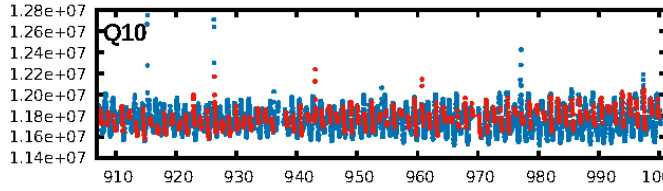
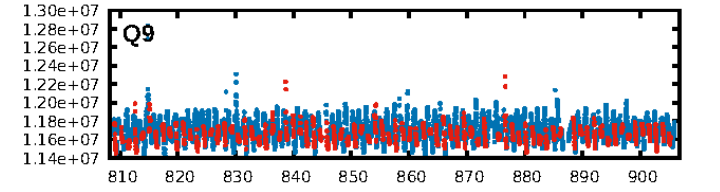
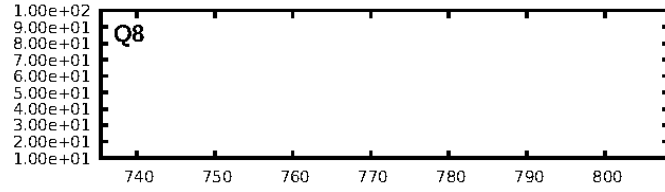
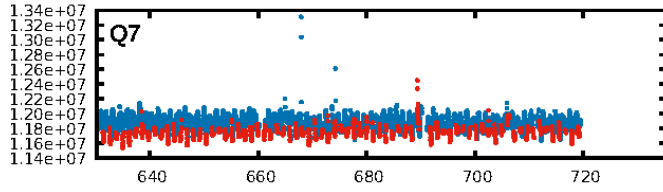
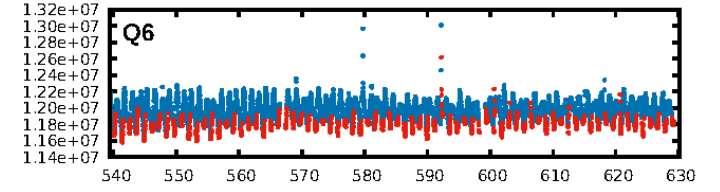
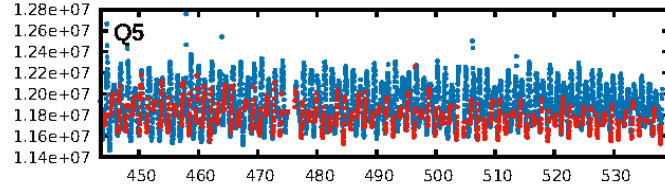
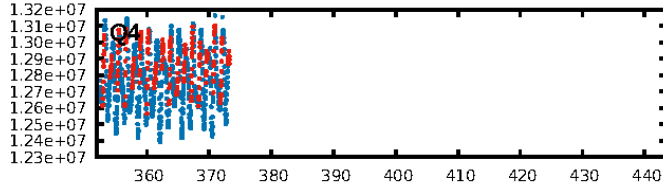
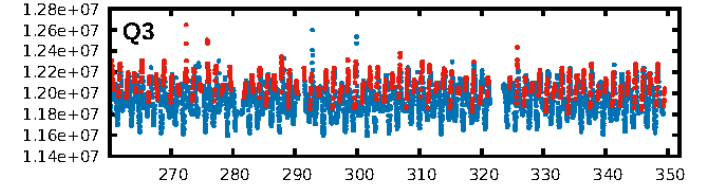
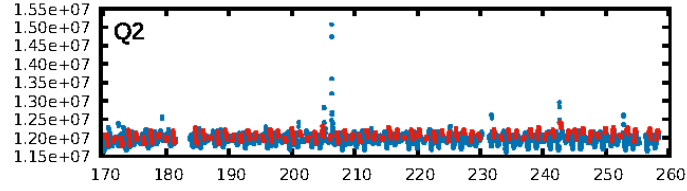
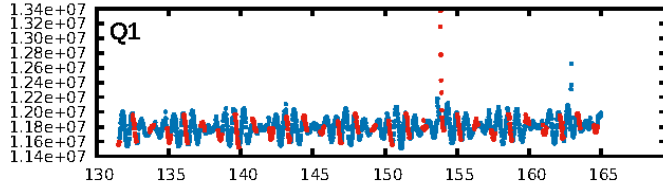
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.17e-18
RollingBand-fgt: 1.00 [832/832]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.050 arcsec [0.71σ]
KicOffset-rm: 0.184 arcsec [1.56σ]
OotOffset-st: 4/4/1/5 [14]
KicOffset-st: 4/4/1/5 [14]
DiffImageQuality-fgm: 0.50 [7/14]
DiffImageOverlap-fno: 1.00 [14/14]

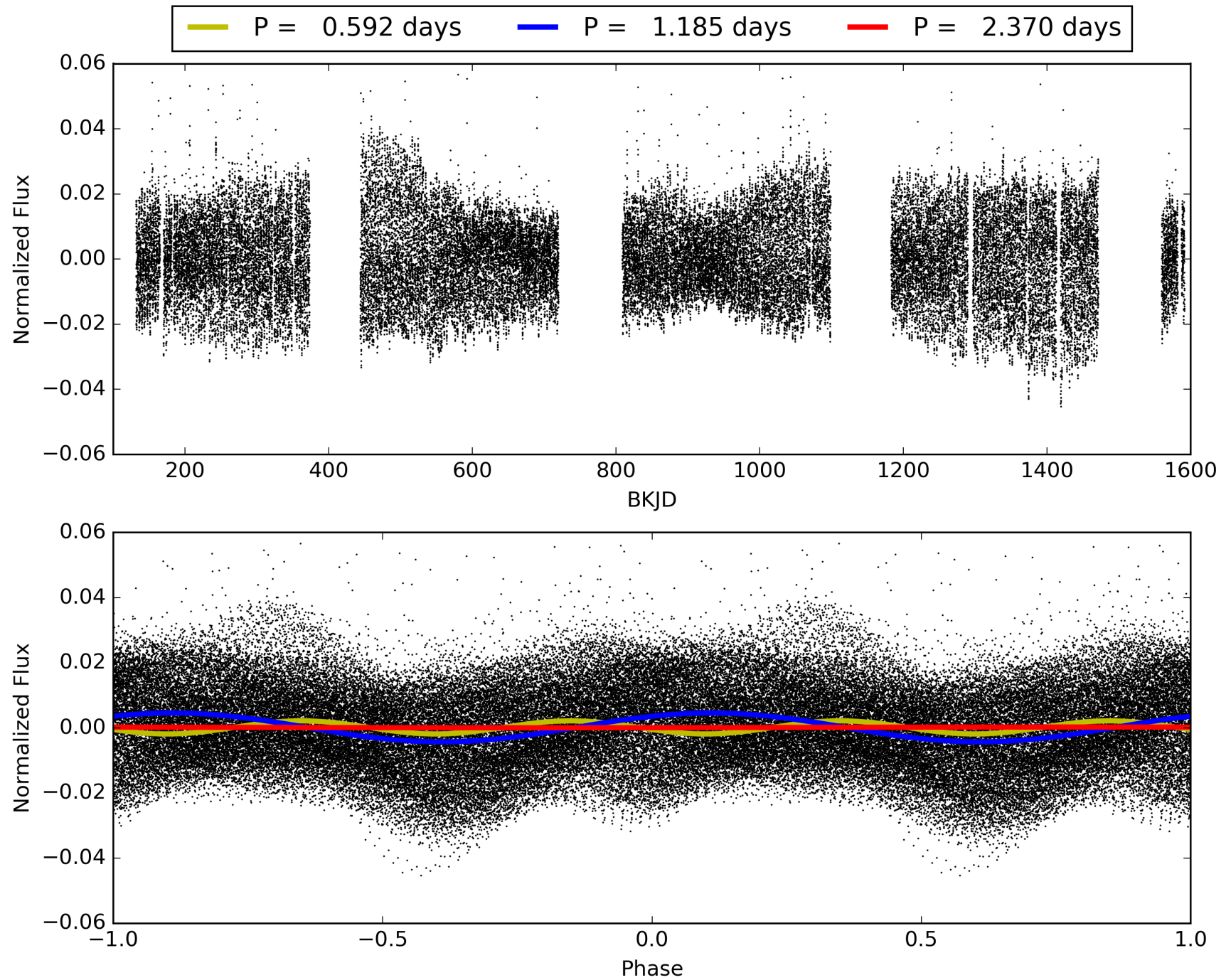
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 08:53:48 Z

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

TCE 011955208-01, PDC Light Curves

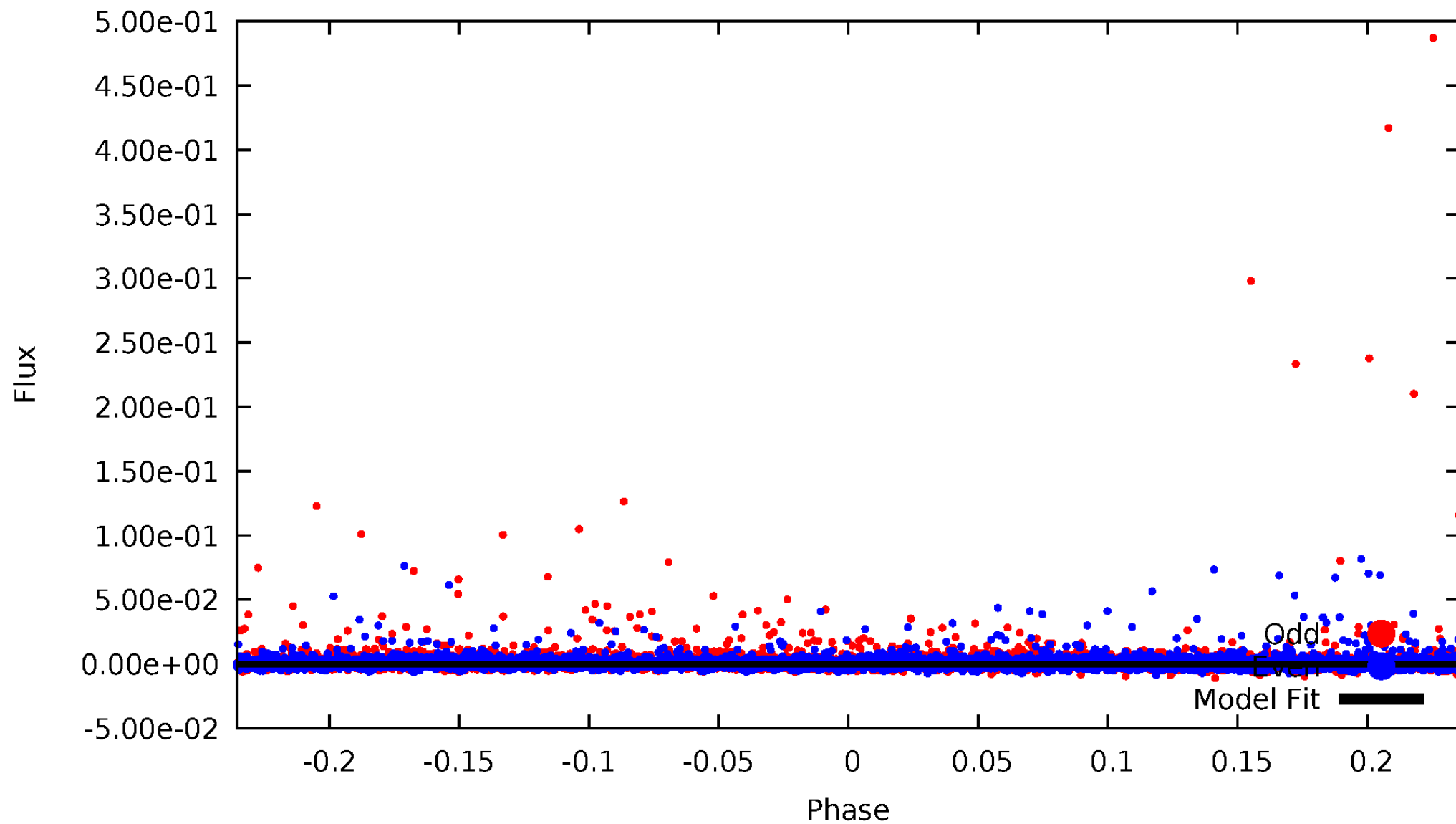


TCE 011955208-01



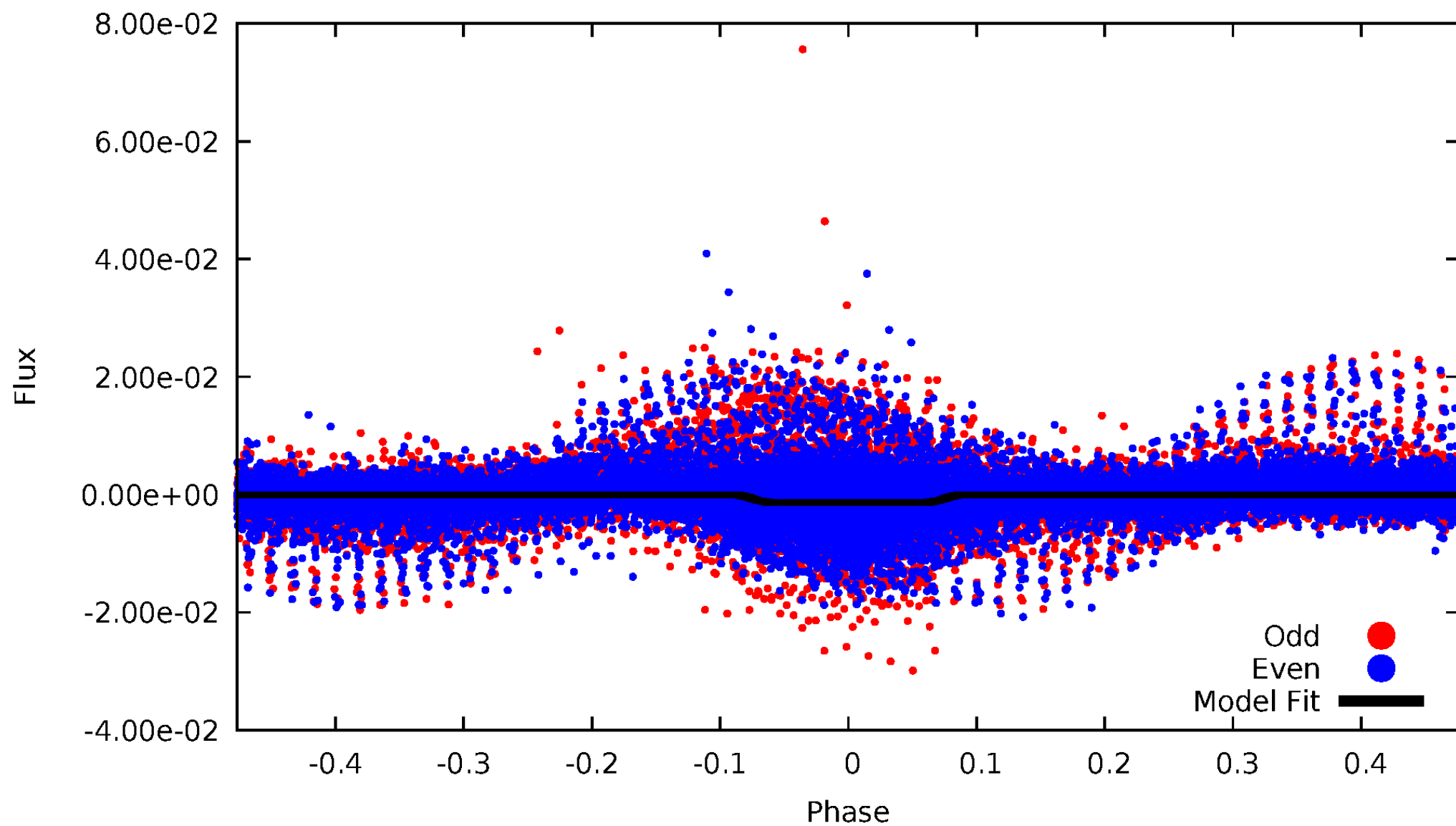
DV Odd/Even

TCE 011955208-01



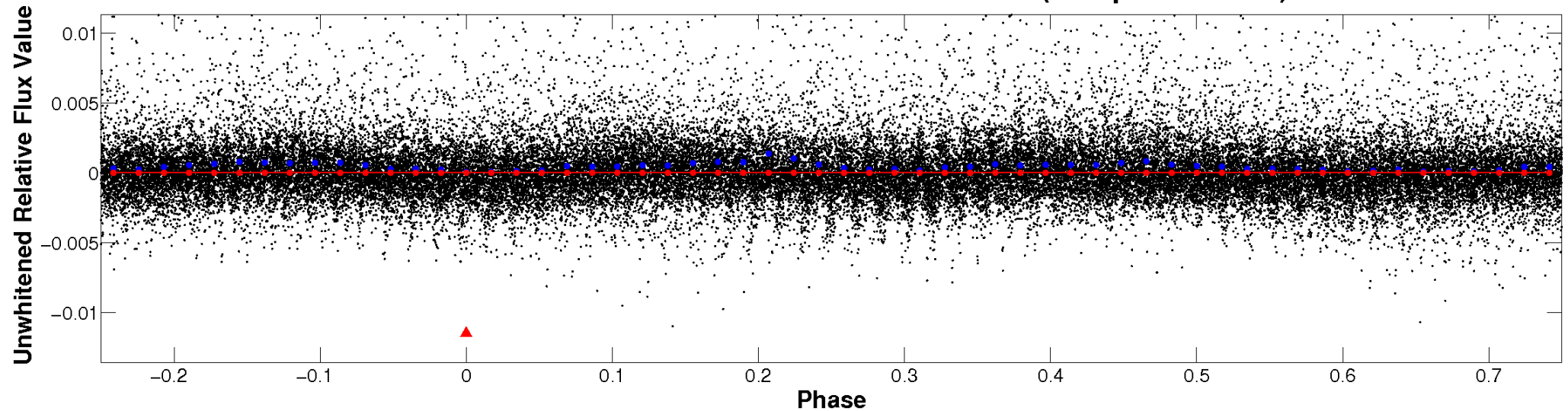
ALT Odd/Even

TCE 011955208-01

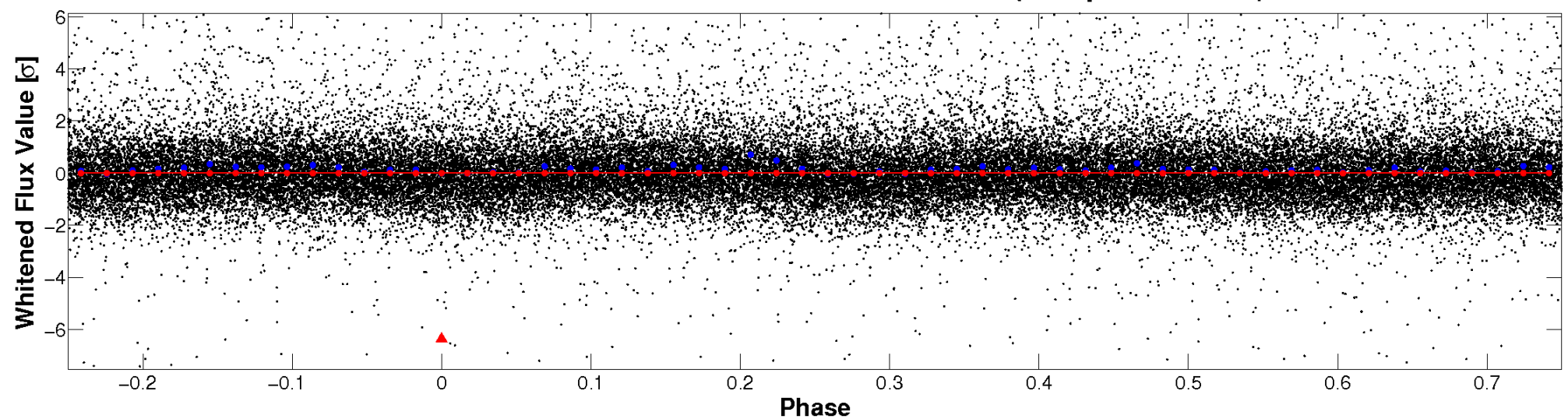


Non-Whitened Vs. Whitened Light Curve

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

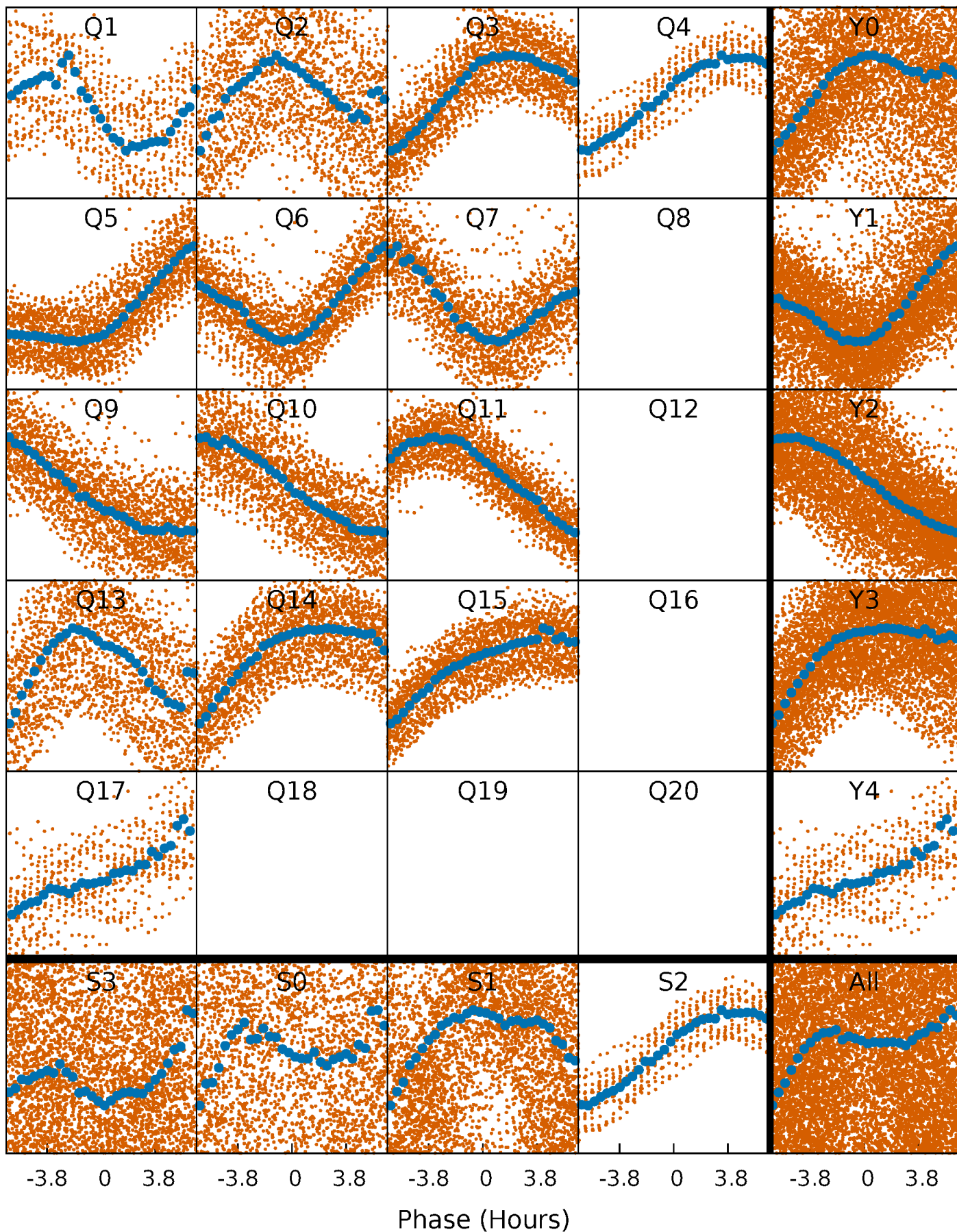


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



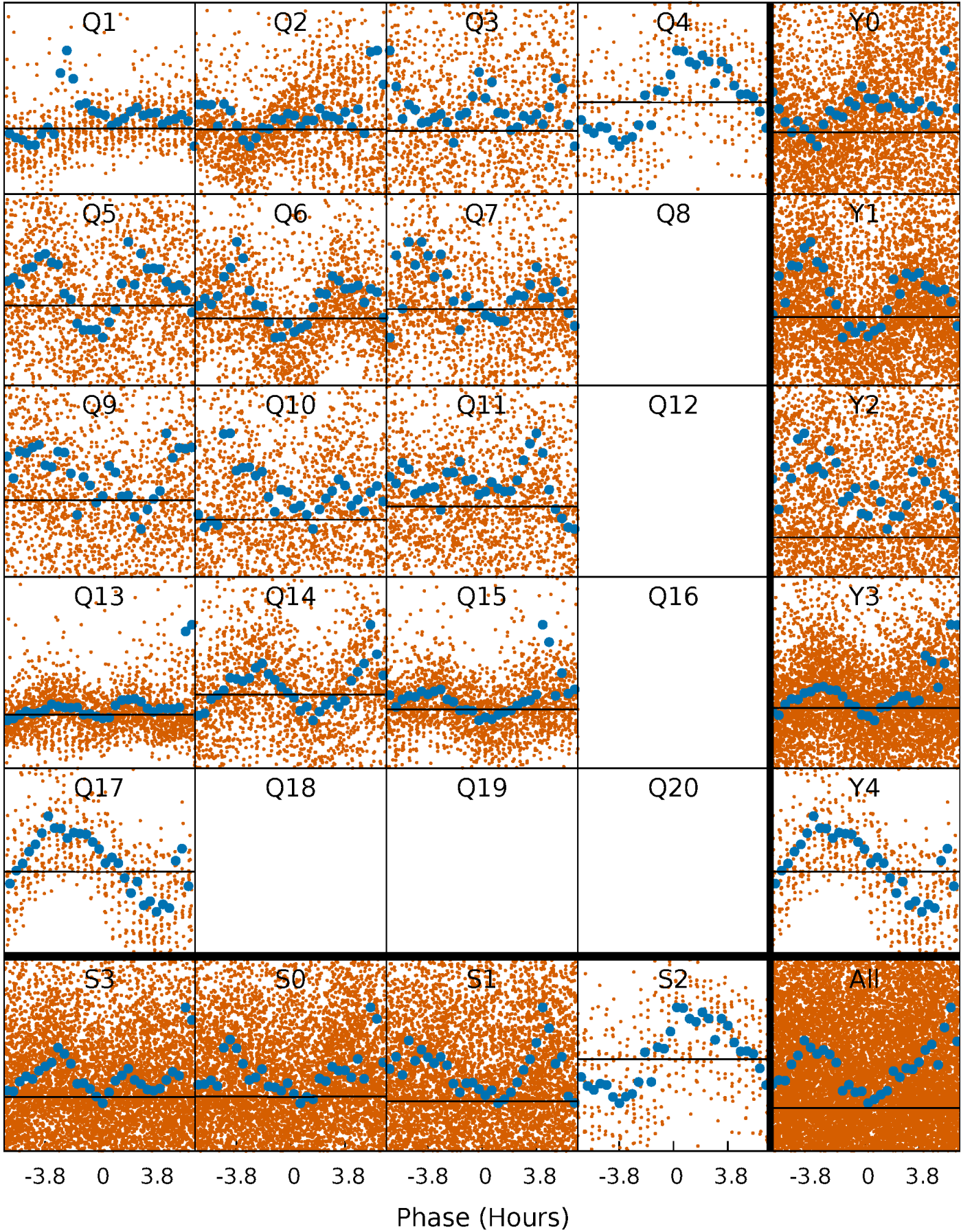
PDC Quarter-Phased Transit Curves

TCE 011955208-01 P= 1.184858 Days $T_0=132.621916$ (BKJD)



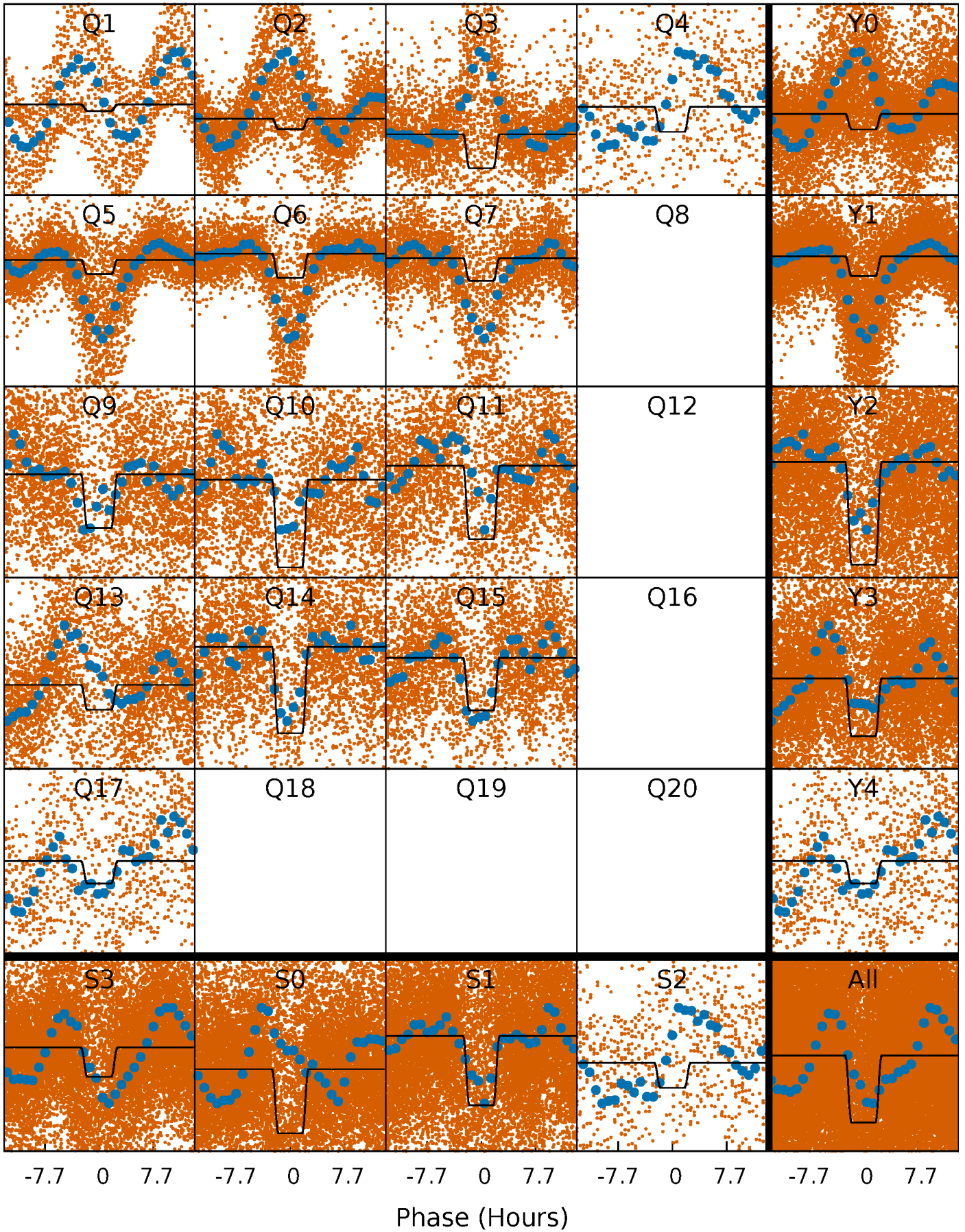
DV Quarter-Phased Transit Curves

TCE 011955208-01 P= 1.184858 Days $T_0=132.621916$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

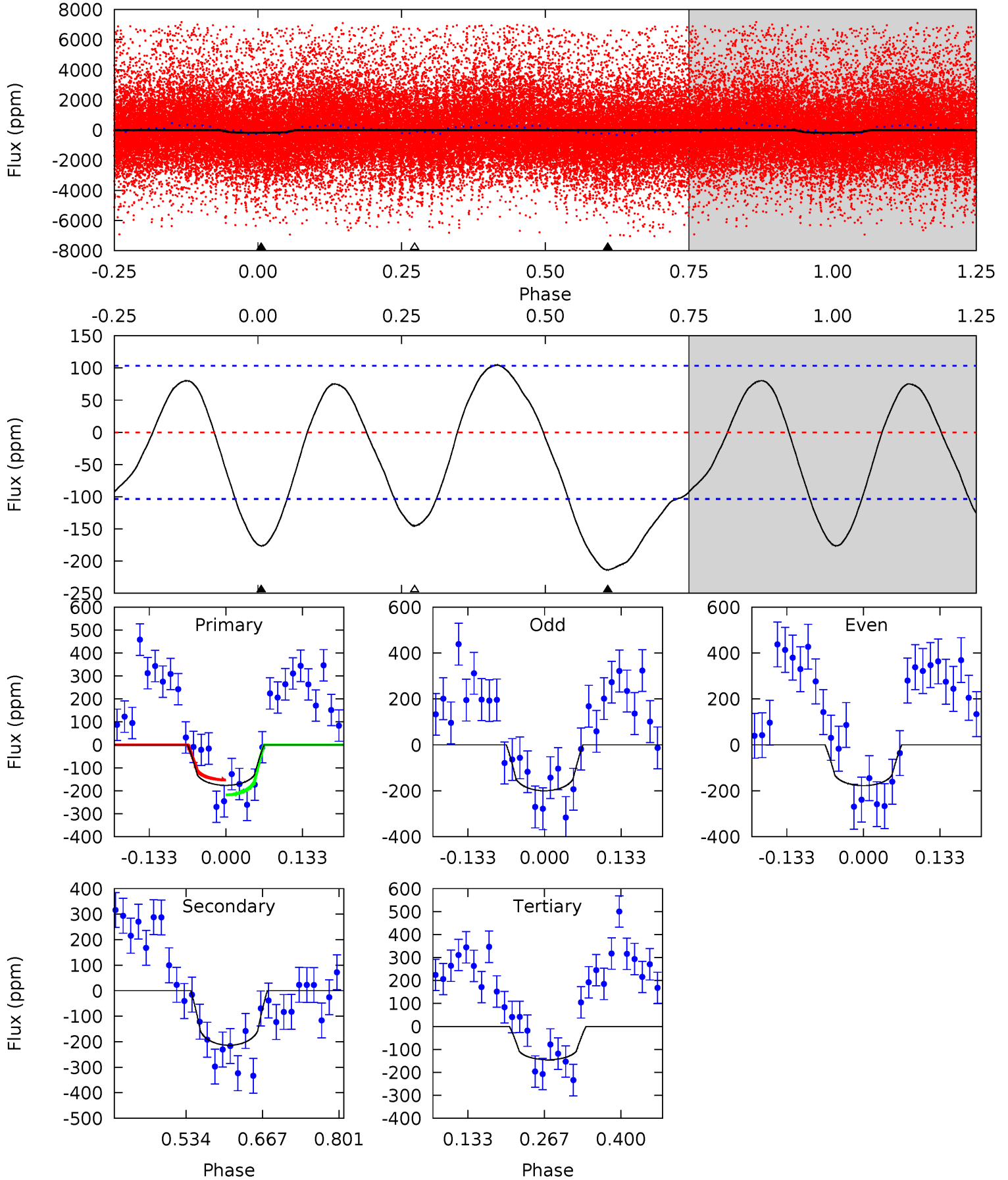
TCE 011955208-01 P= 1.184976 Days $T_0=132.579866$ (BKJD)



DV Model-Shift Uniqueness Test

011955208-01, P = 1.184858 Days, E = 131.437058 Days

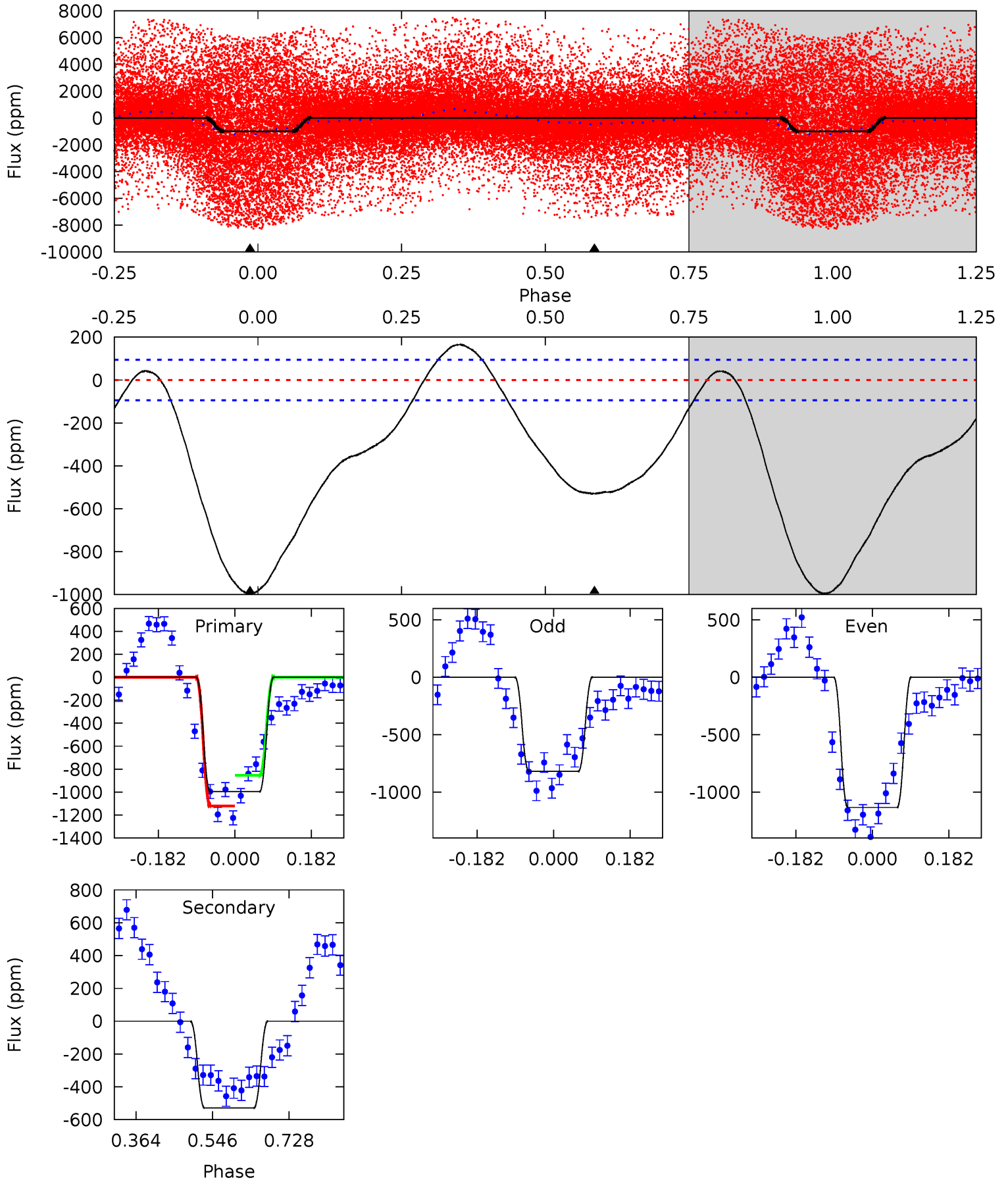
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.68	9.31	6.32	0	4.50	1.50	3.47	1.36	7.68	2.99	9.31	0.49	-1.80	0.33	1.45



Alt Model-Shift Uniqueness Test

011955208-01, P = 1.184976 Days, E = 131.394890 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
46.9	24.9	0	0	4.44	1.33	8.27	46.9	46.9	24.9	24.9	7.48	0.97	0.14	6.45



Stellar Parameters For KIC 011955208

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3604^{+72}_{-79}	$4.836^{+0.050}_{-0.041}$	$-0.100^{+0.100}_{-0.100}$	$0.422^{+0.038}_{-0.051}$	$0.444^{+0.036}_{-0.058}$	$8.317^{+2.488}_{-1.331}$
	+2%/-2%	+1%/-1%	+100%/-100%	+9%/-12%	+8%/-13%	+30%/-16%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 011955208-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-214 ± 23	$1.19^{+1.24}_{-0.83}$	1114^{+31}_{-34}	3038^{+1457}_{-546}	24^{+233}_{-19}
Alt.	-529 ± 21	$1.99^{+1.49}_{-1.26}$	1111^{+35}_{-32}	2975^{+1109}_{-437}	20^{+137}_{-13}

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

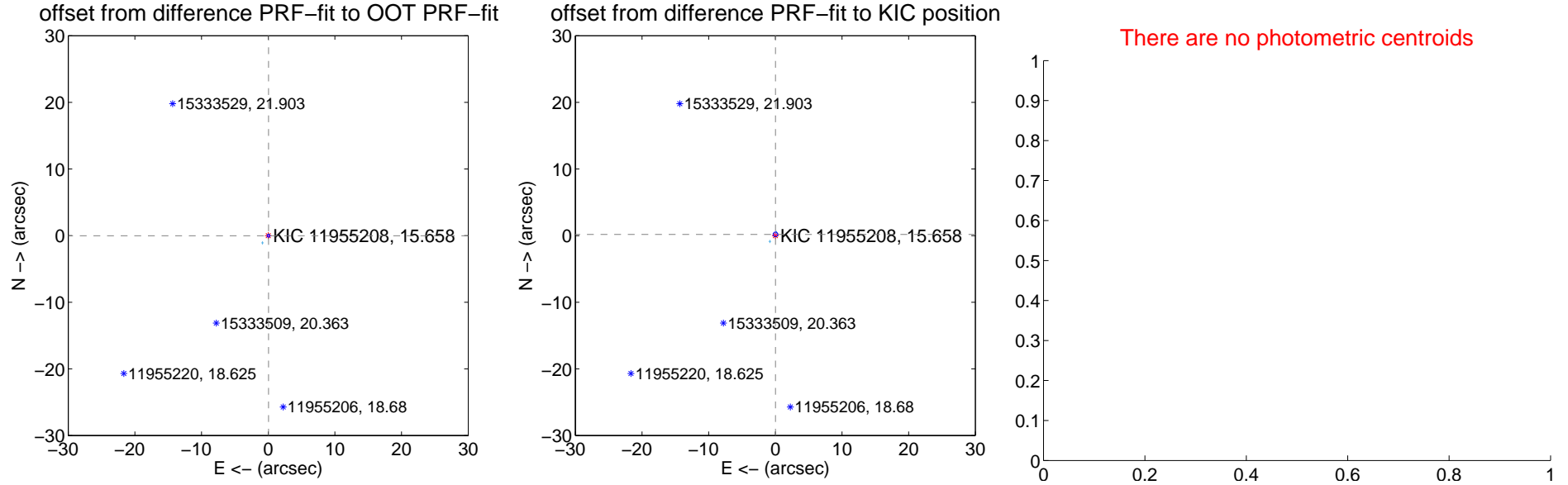
DV Centroid Data

Supplemental centroid analysis for 011955208-01. Kepler magnitude: 15.66. Transit SNR 0.02

There are 7 quarters with good PRF difference image offsets

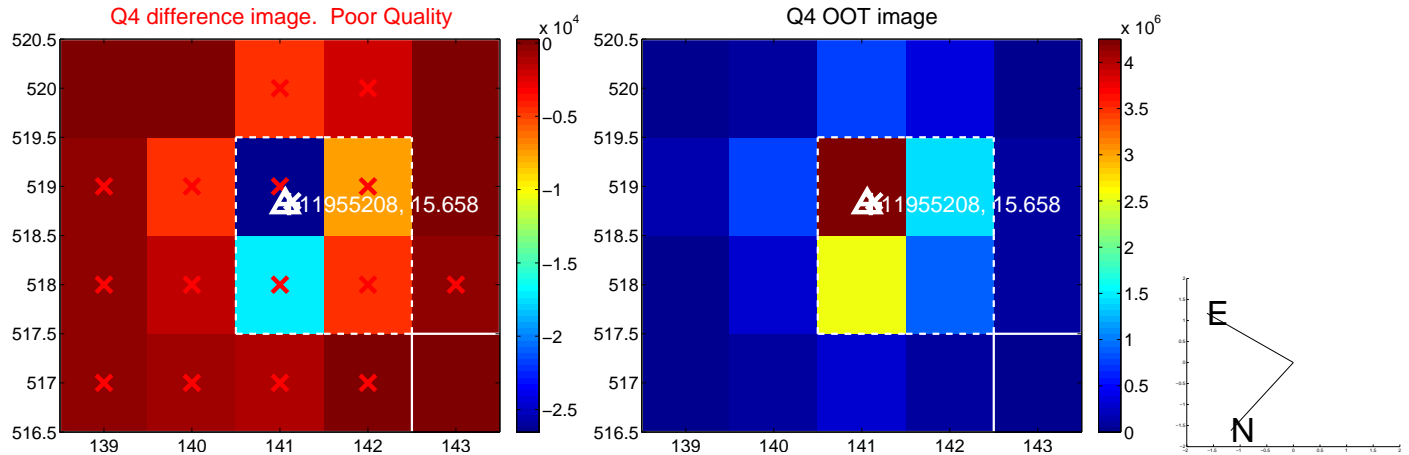
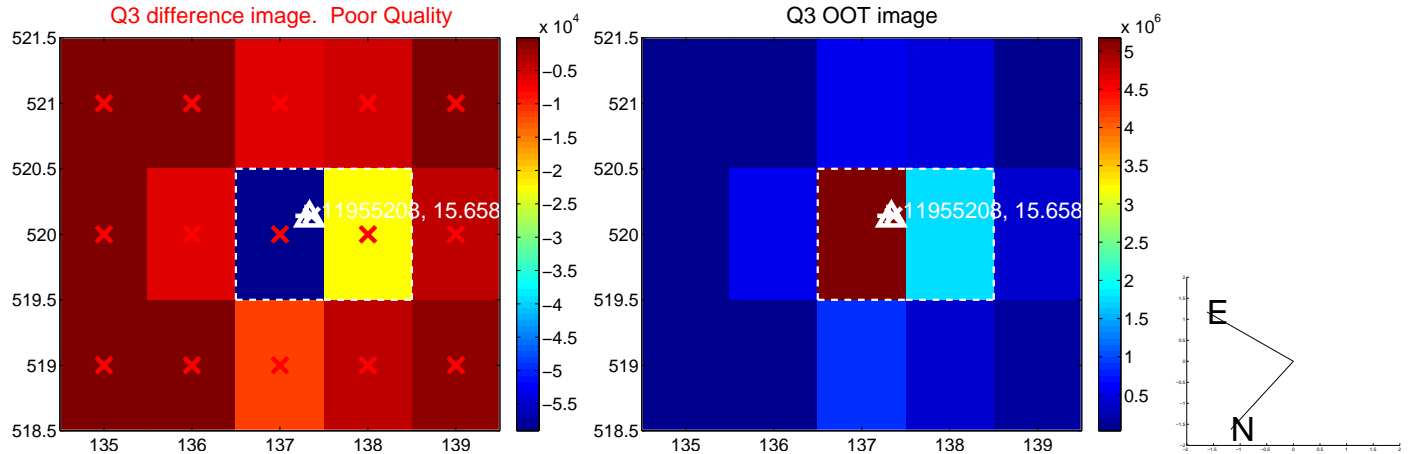
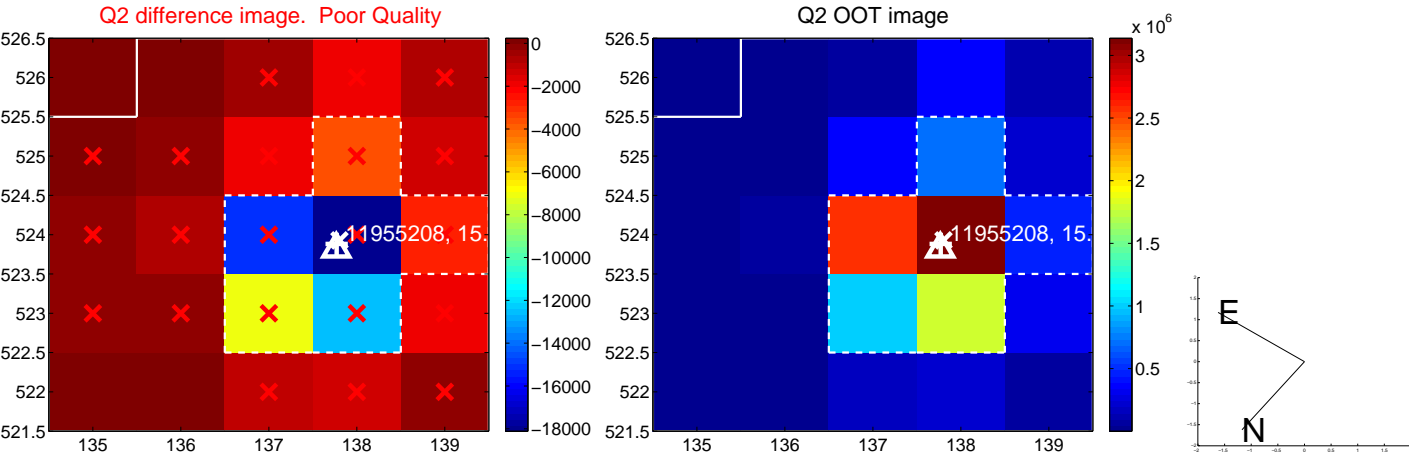
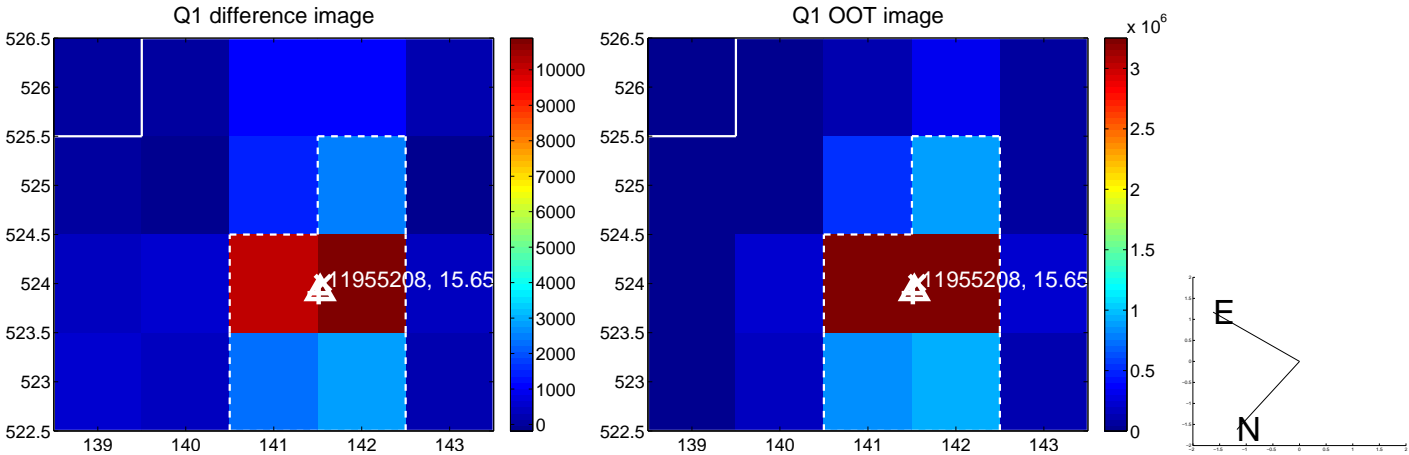
The direct PRF centroid is offset from the target star catalog position by about 0.41 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.050 ± 0.071	0.71	-0.044 ± 0.092	-0.025 ± 0.100
PRF-fit source offset from KIC position	0.184 ± 0.118	1.56	-0.016 ± 0.094	0.183 ± 0.114
photometric centroid source offset	—	—	—	—

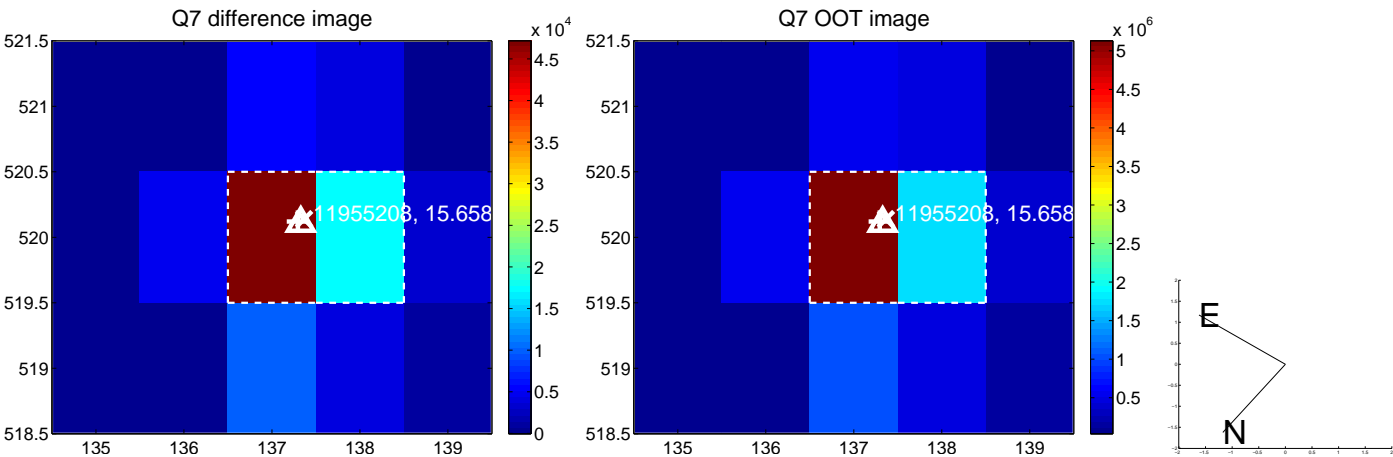
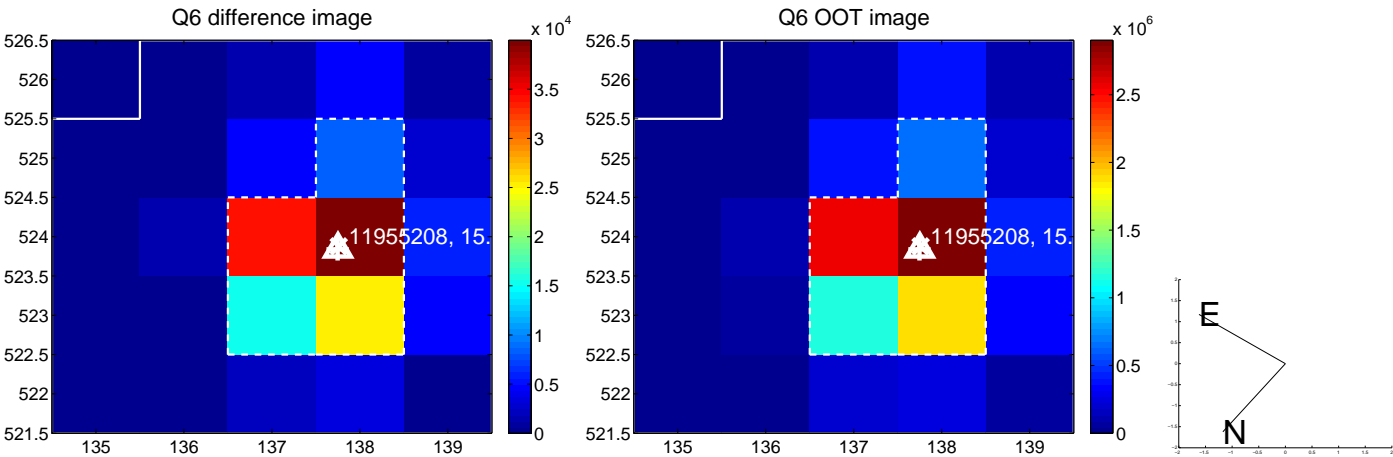
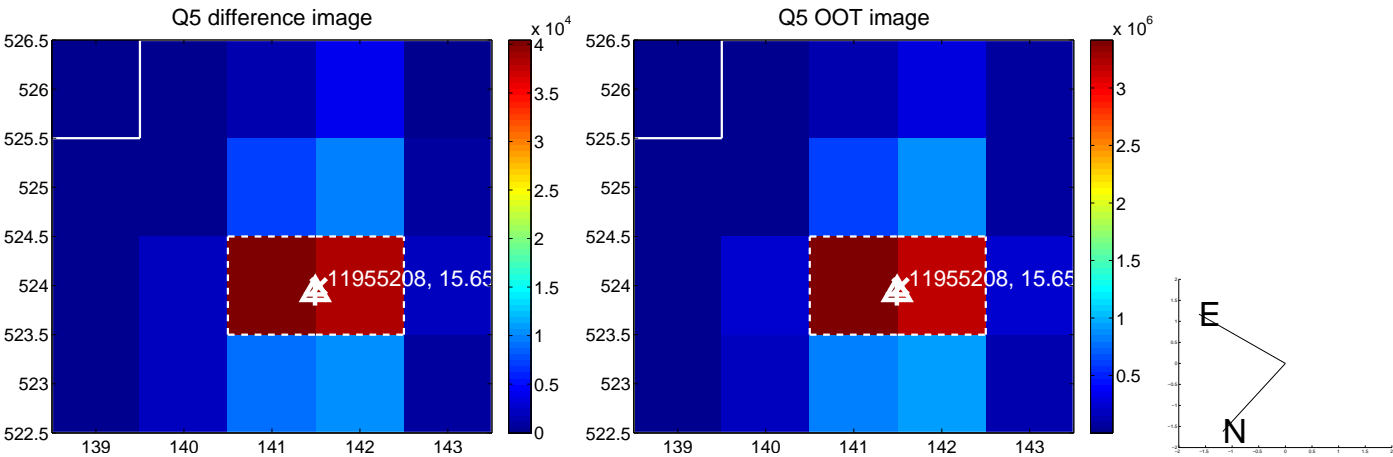


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

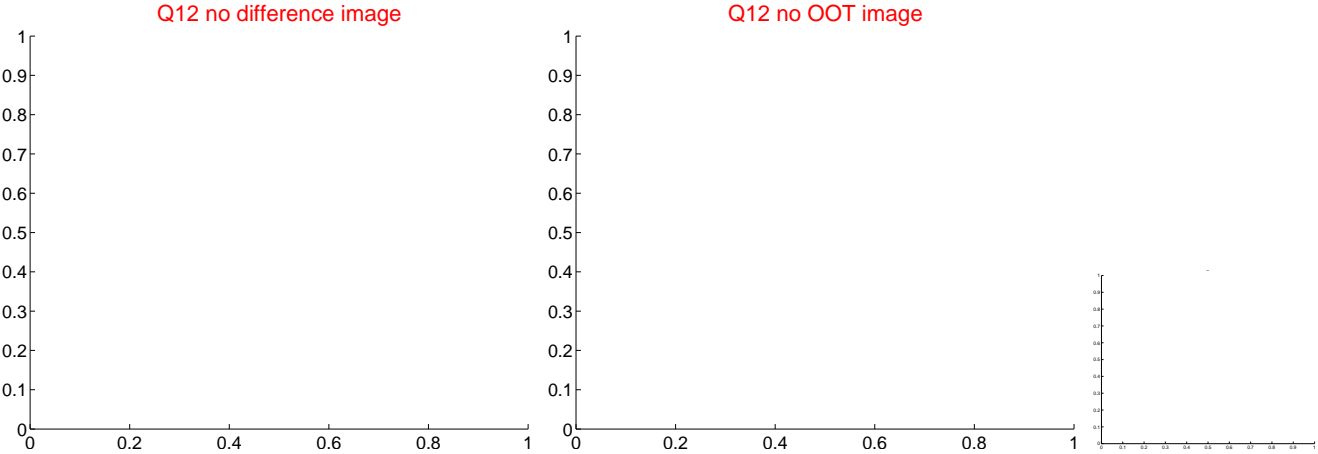
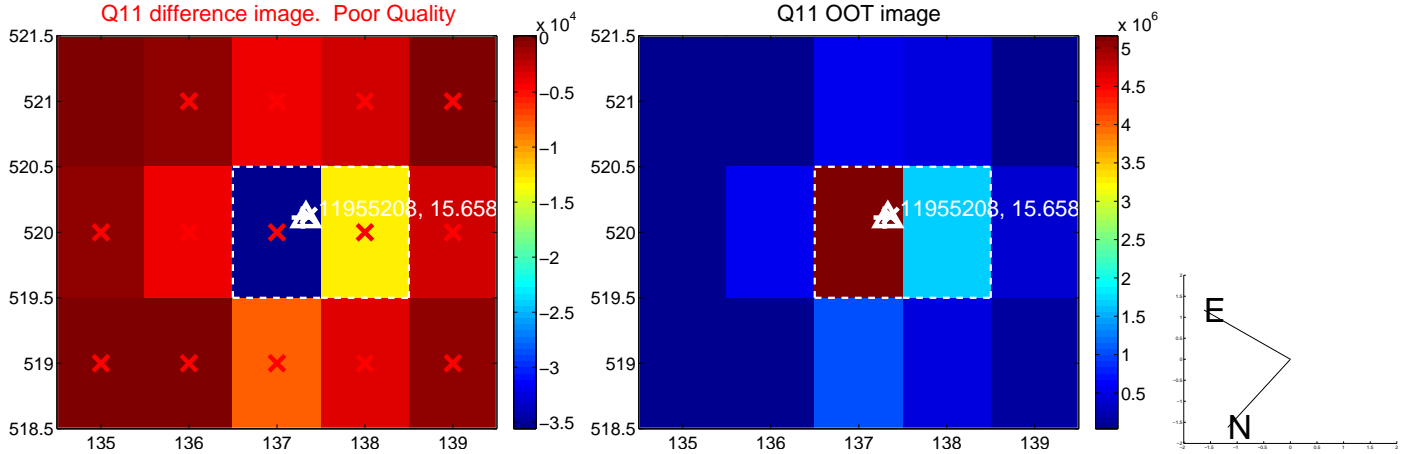
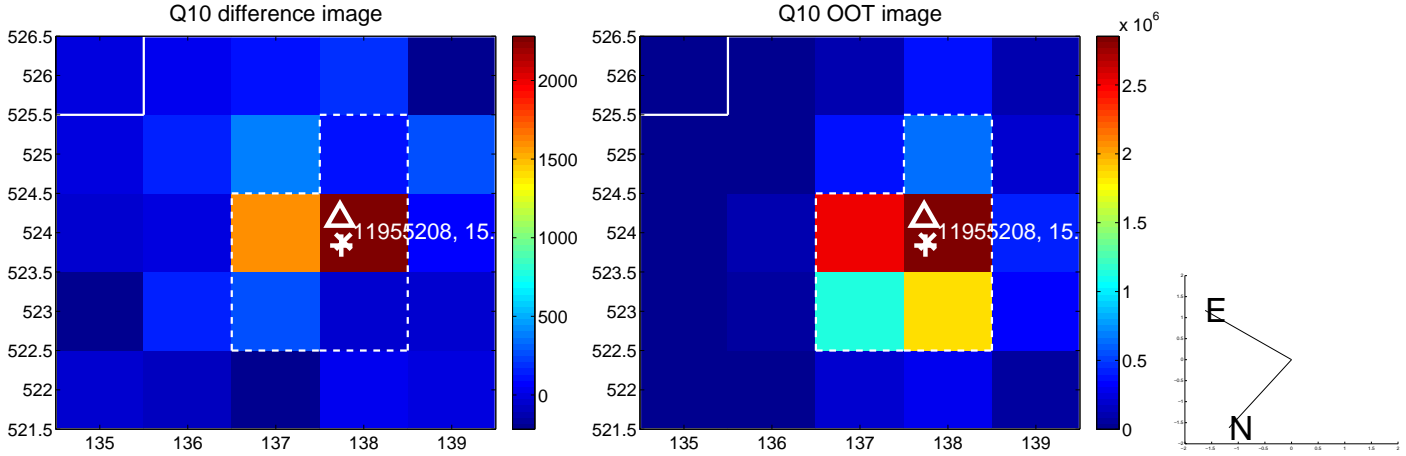
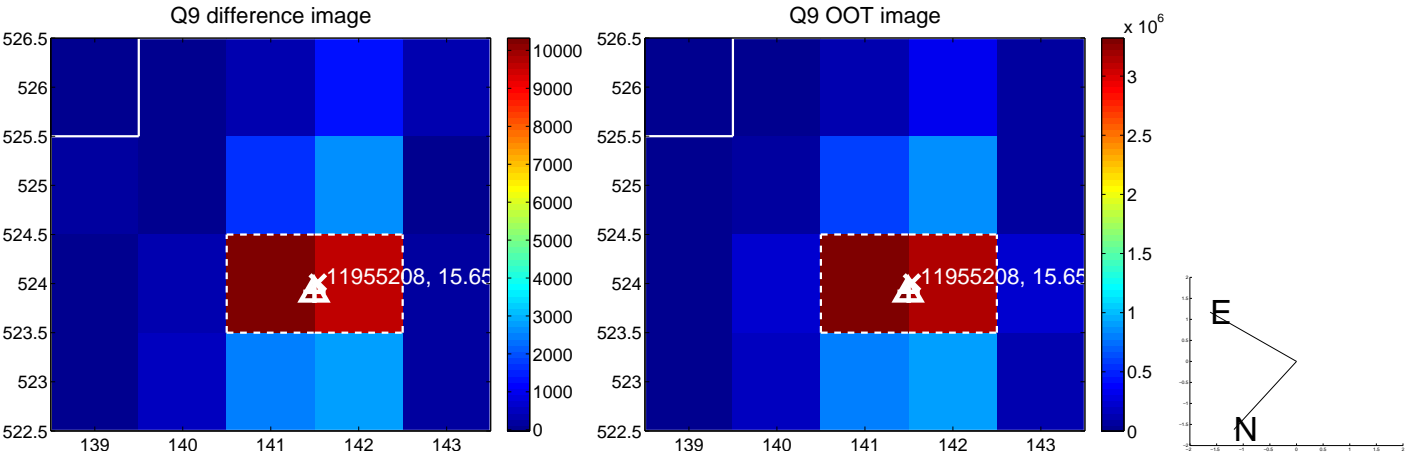
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



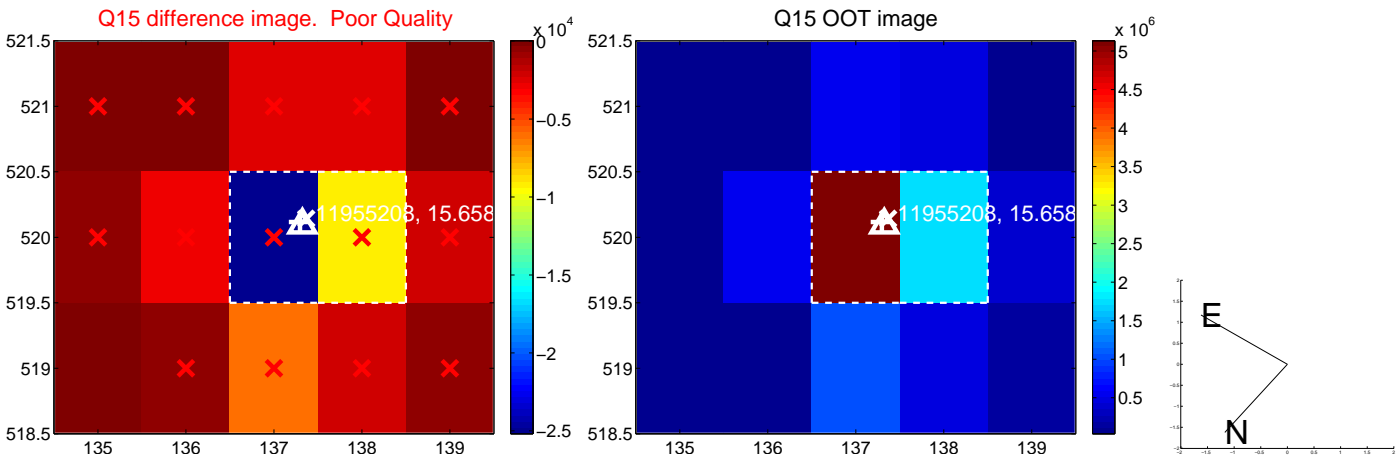
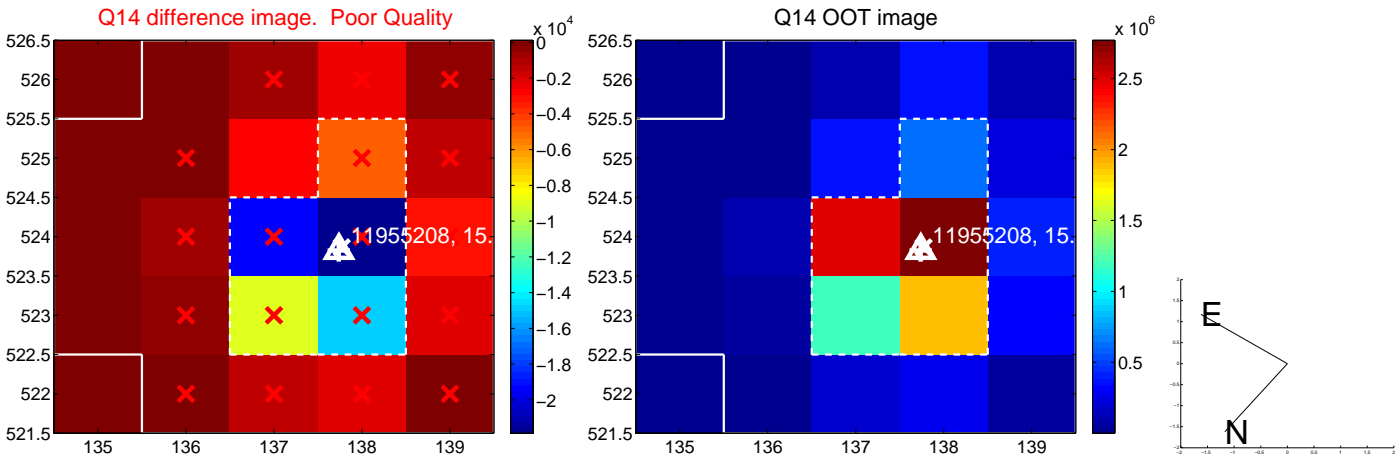
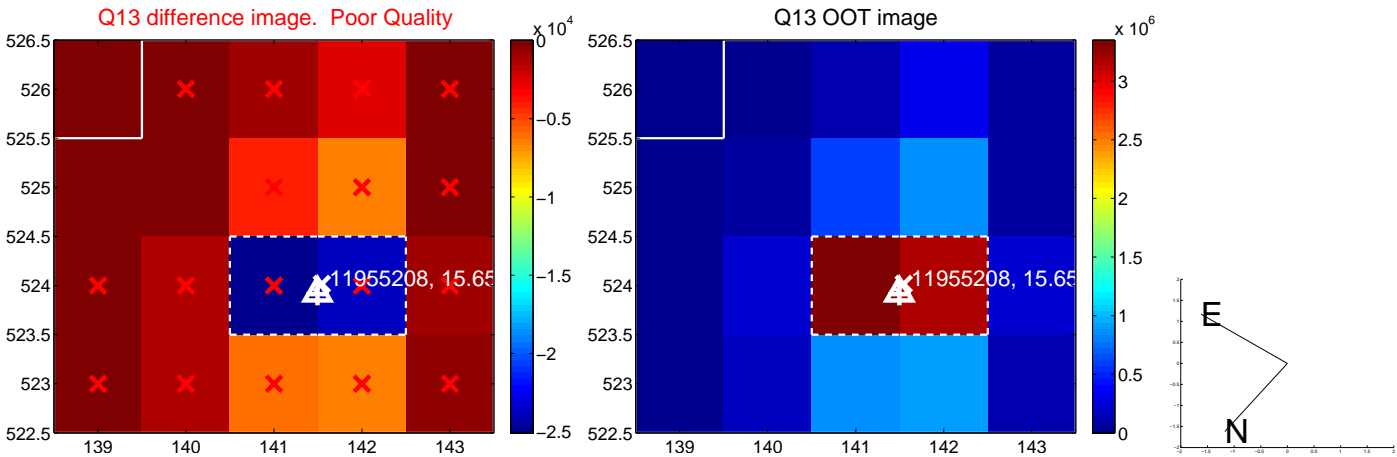
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



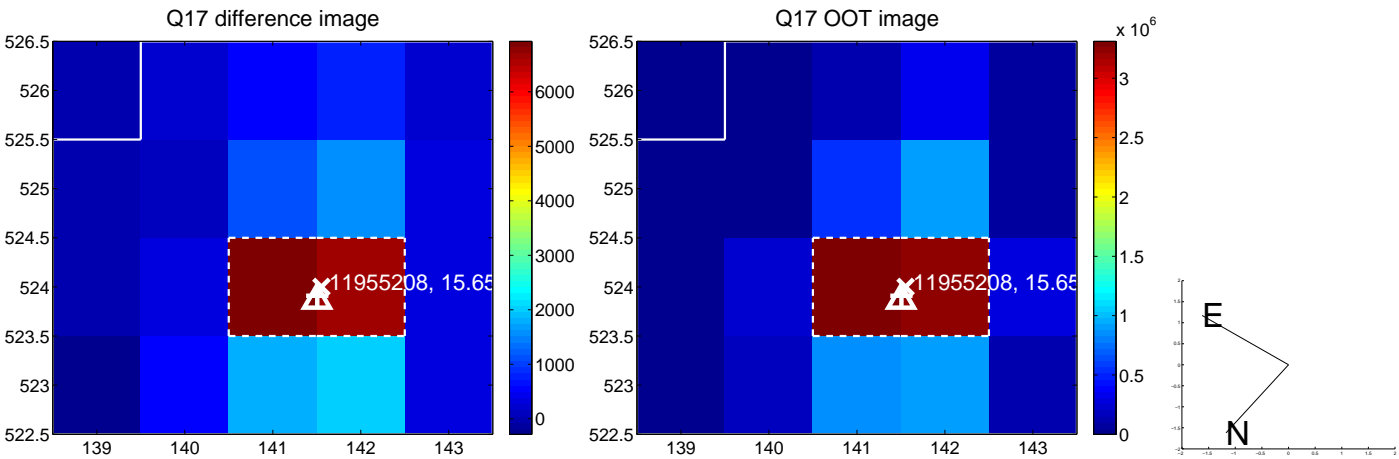
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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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

