

KIC 007674265

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})
007674265-01	OBS	No	1.144497	131.844742	150.8	3.500	10.0	-1.0	1.56	6857	1.94	8991.71

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007674265-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS

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

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

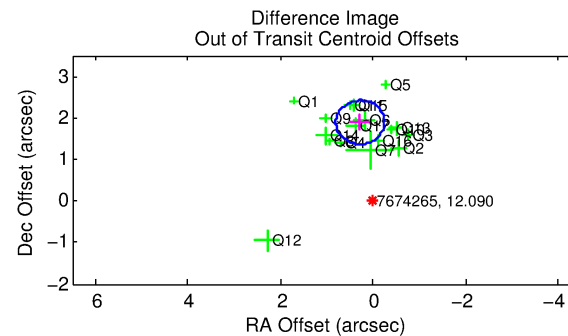
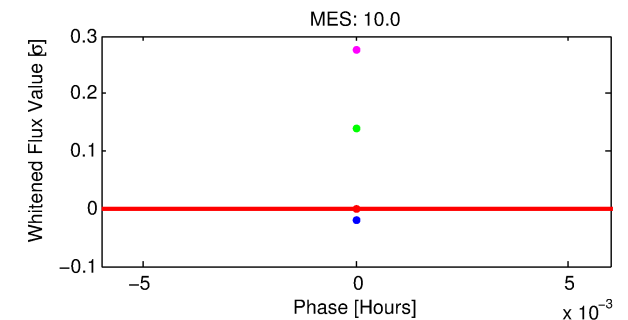
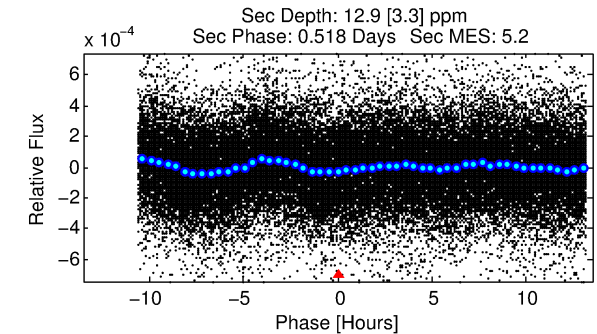
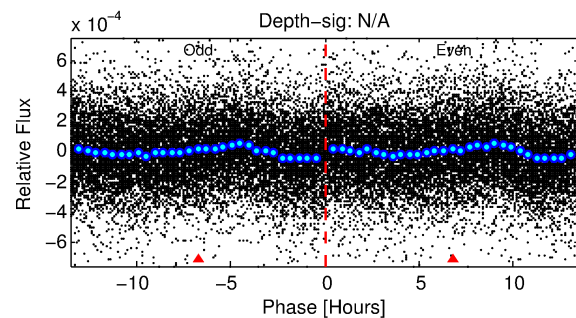
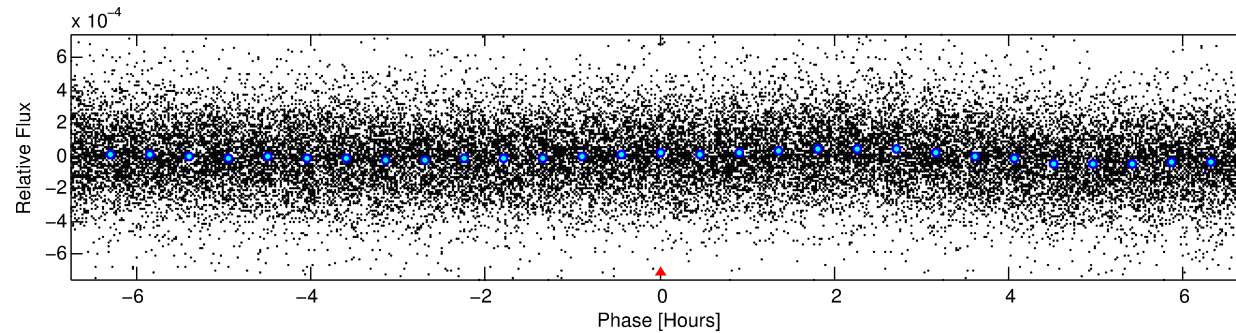
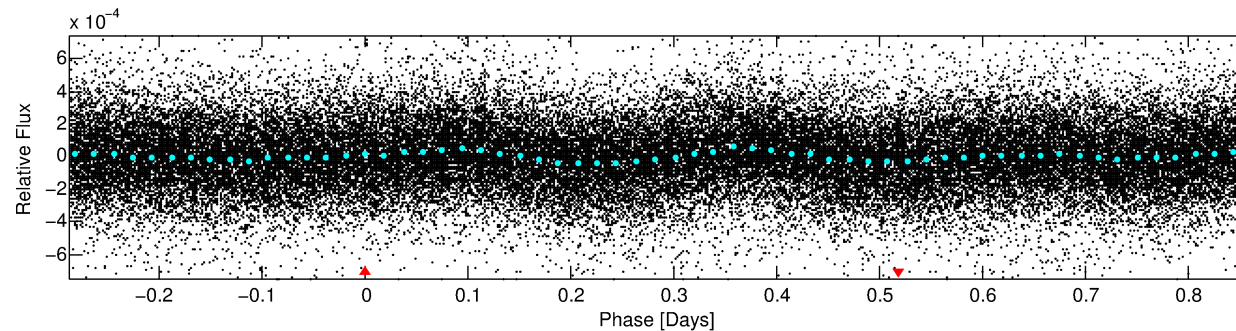
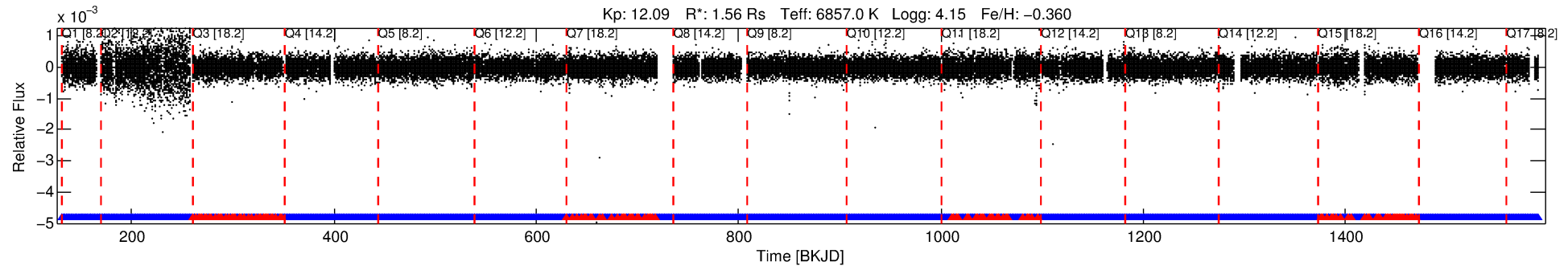
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007674265-01

No Significant Match Found

DV One-Page Summary

KIC: 7674265 Candidate: 1 of 1 Period: 1.144 d



TPS TCE Results:

Period = 1.14450 d
Epoch = 131.8447 BKJD

DV fit results are unavailable

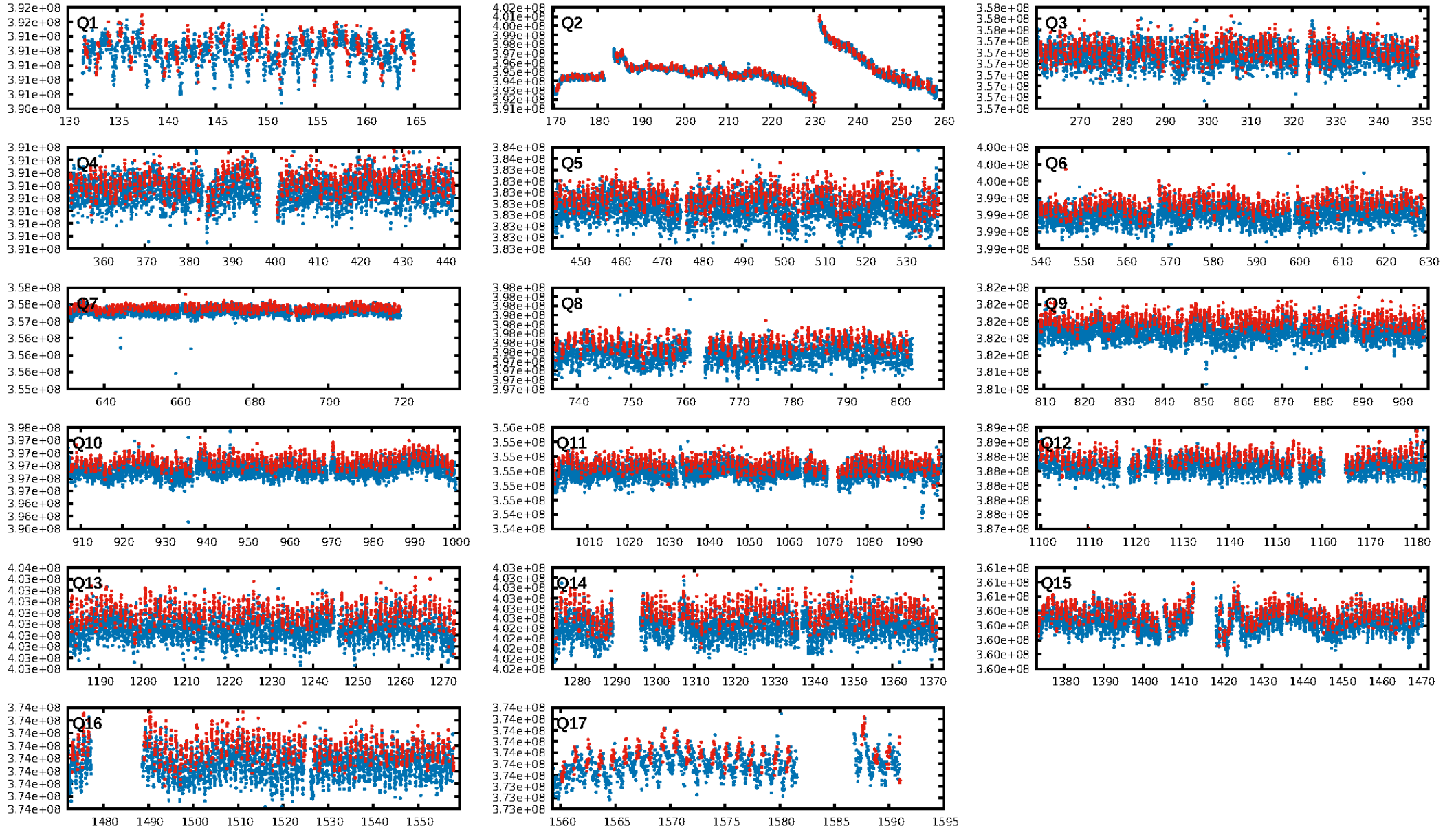
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.83e-17
RollingBand-fgt: 0.88 [987/1116]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 1.914 arcsec [10.92σ]
KicOffset-rm: 0.137 arcsec [0.63σ]
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]

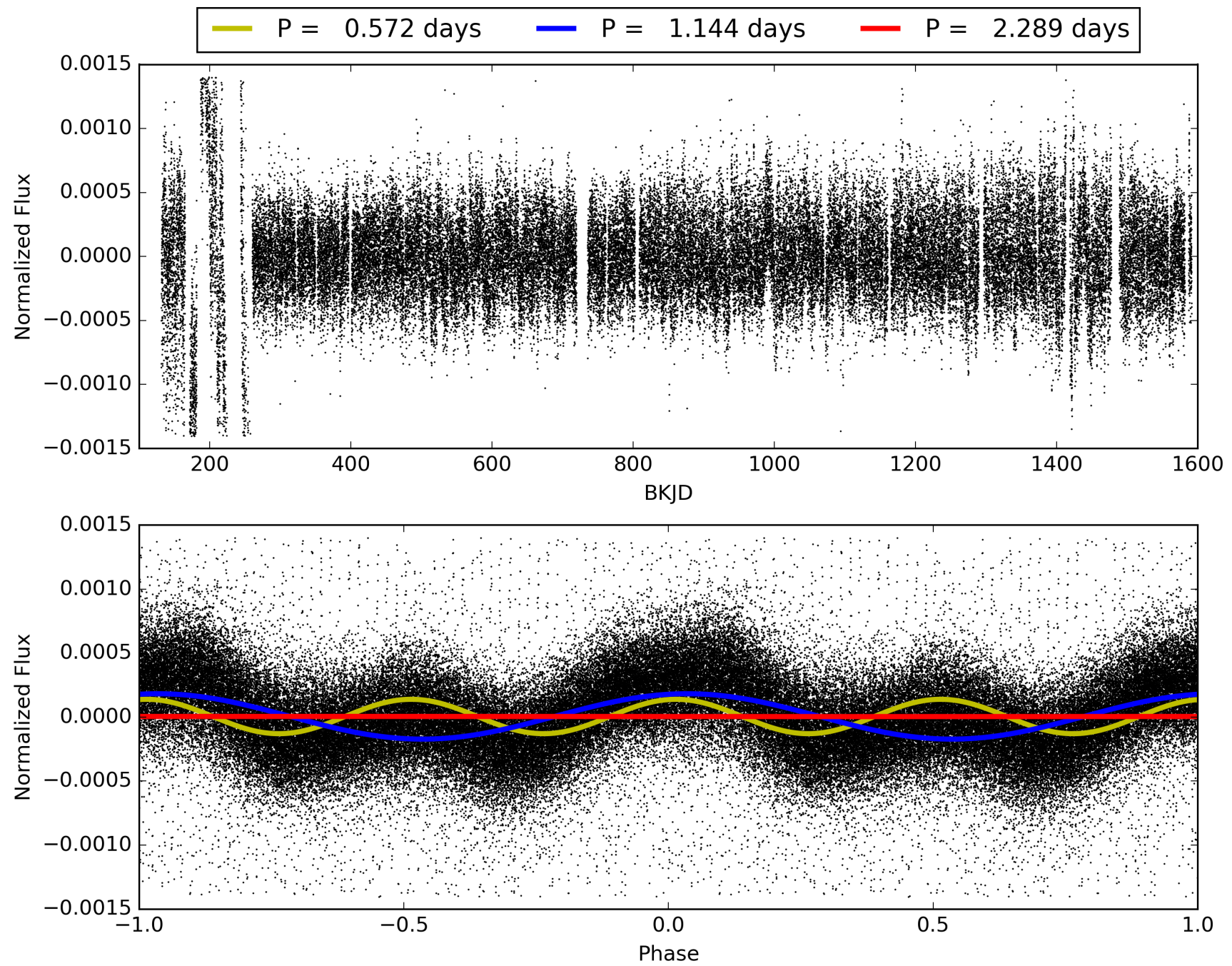
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 21:58:57 Z

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

TCE 007674265-01, PDC Light Curves

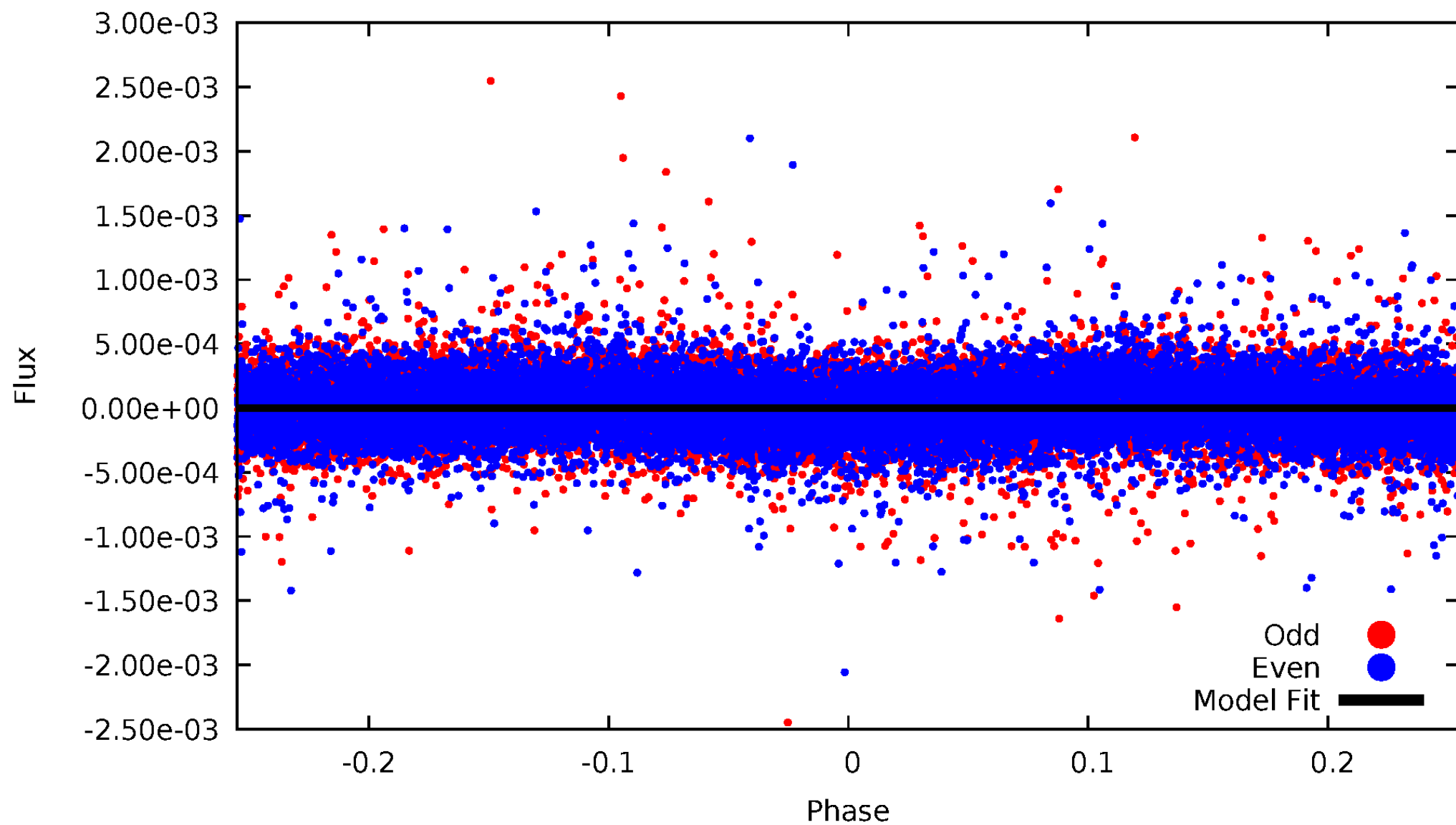


TCE 007674265-01



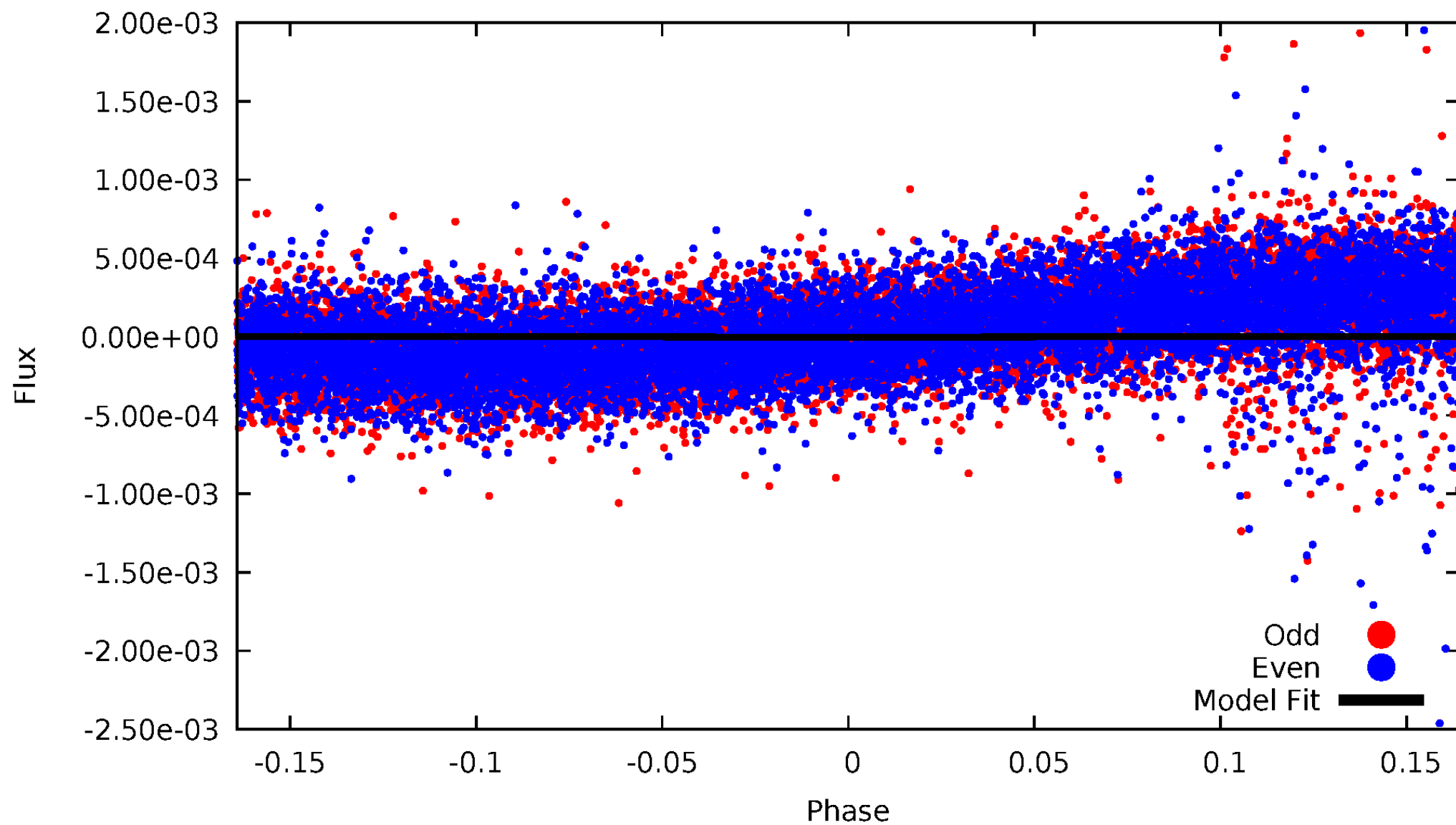
DV Odd/Even

TCE 007674265-01

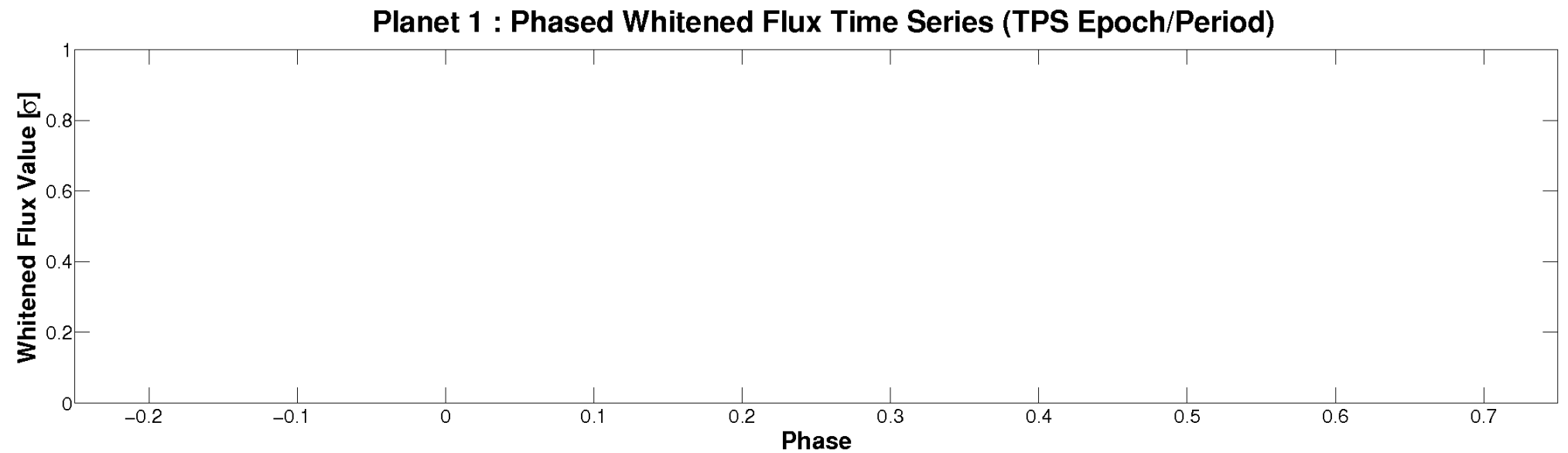
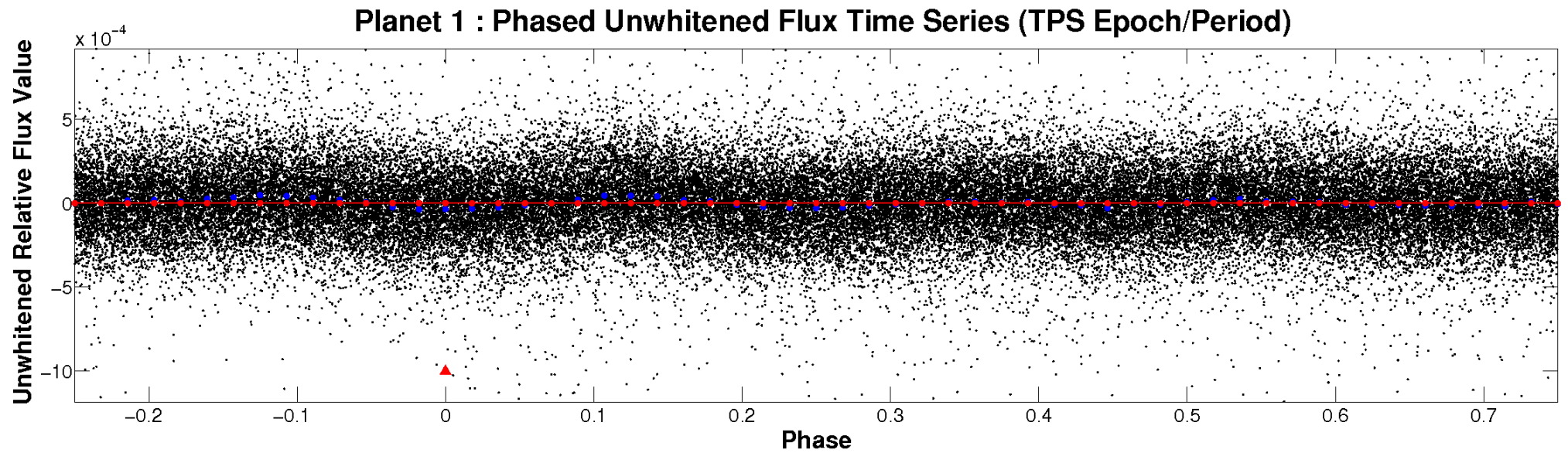


ALT Odd/Even

TCE 007674265-01

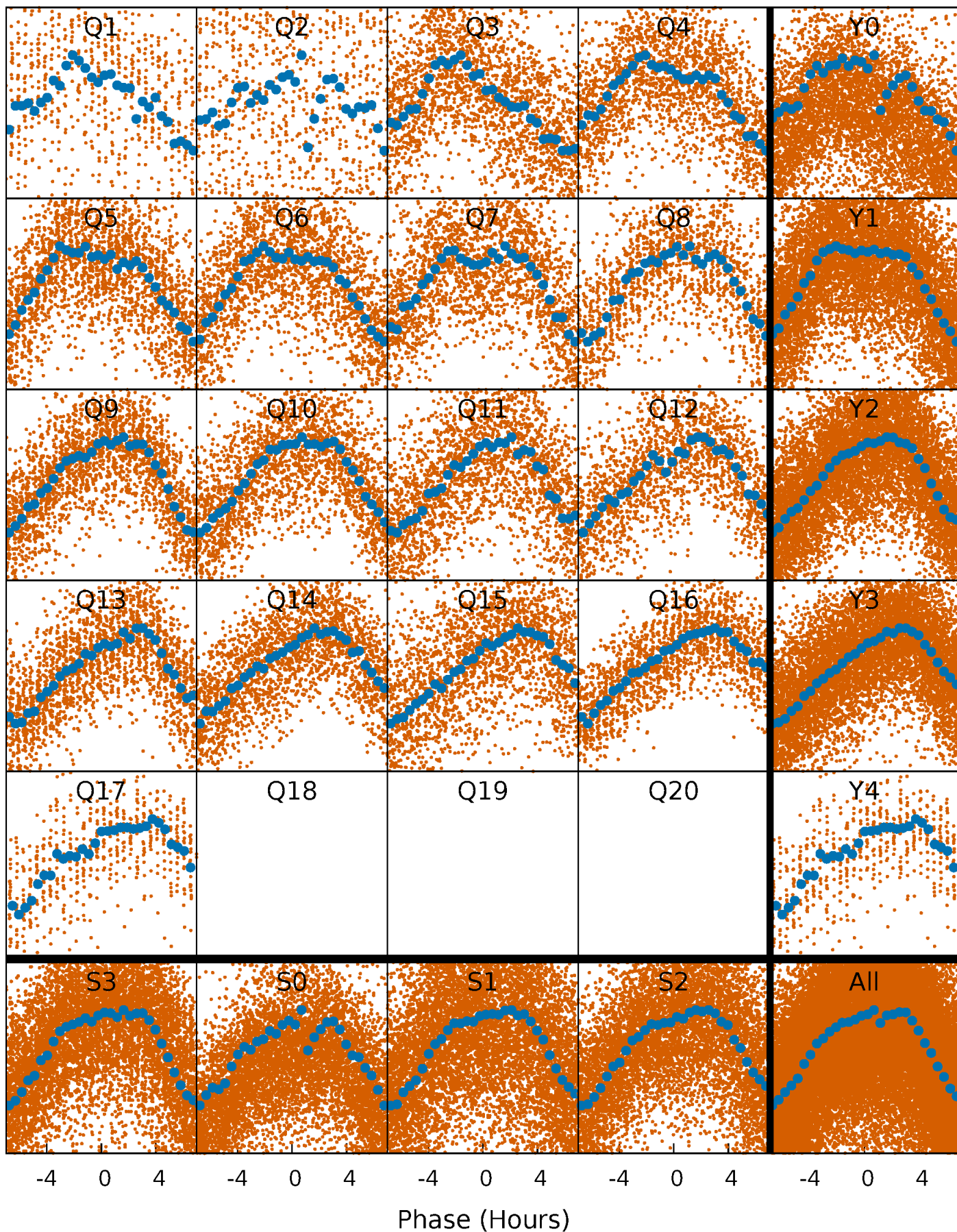


Non-Whitened Vs. Whitened Light Curve



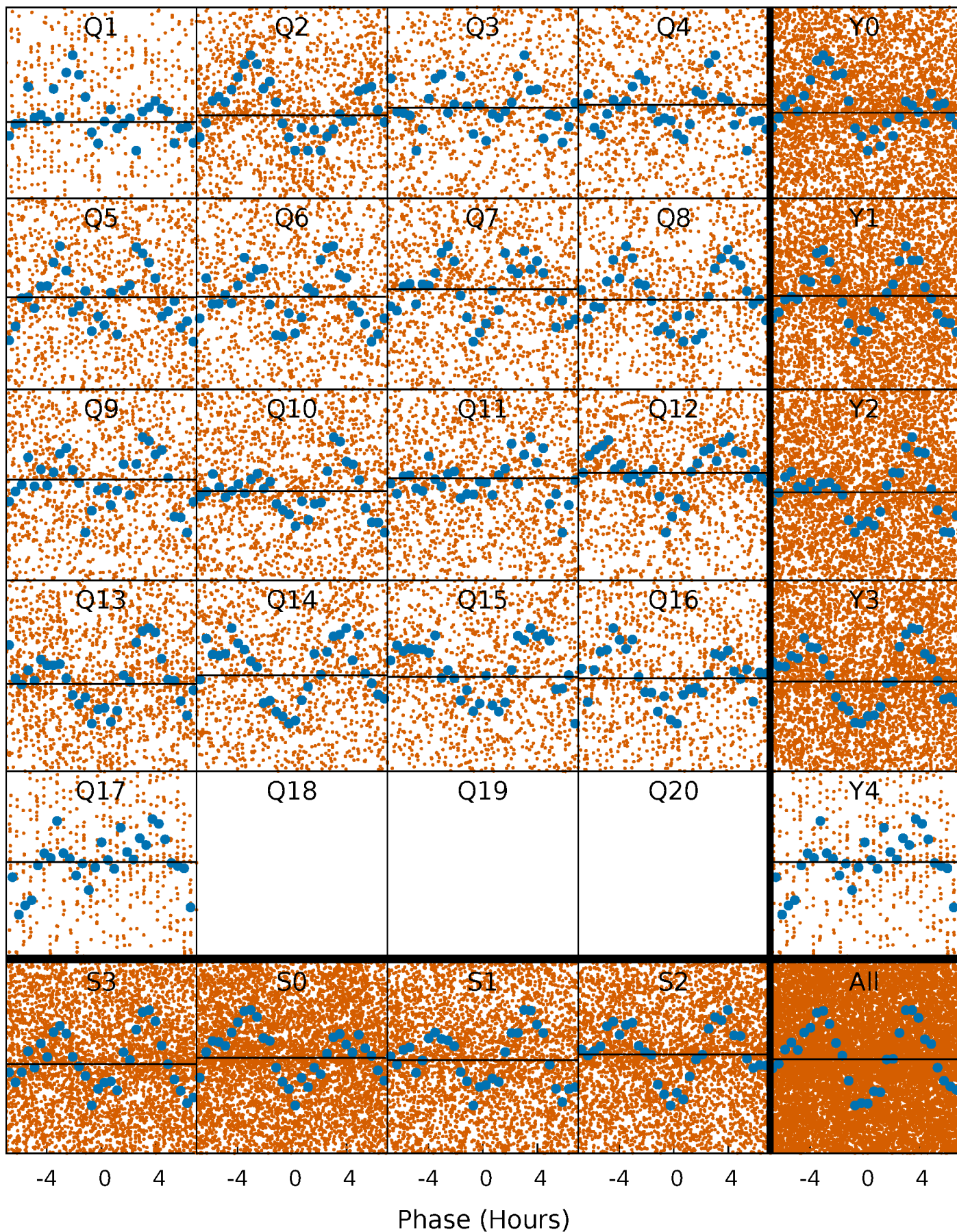
PDC Quarter-Phased Transit Curves

TCE 007674265-01 P= 1.144497 Days $T_0=131.844742$ (BKJD)



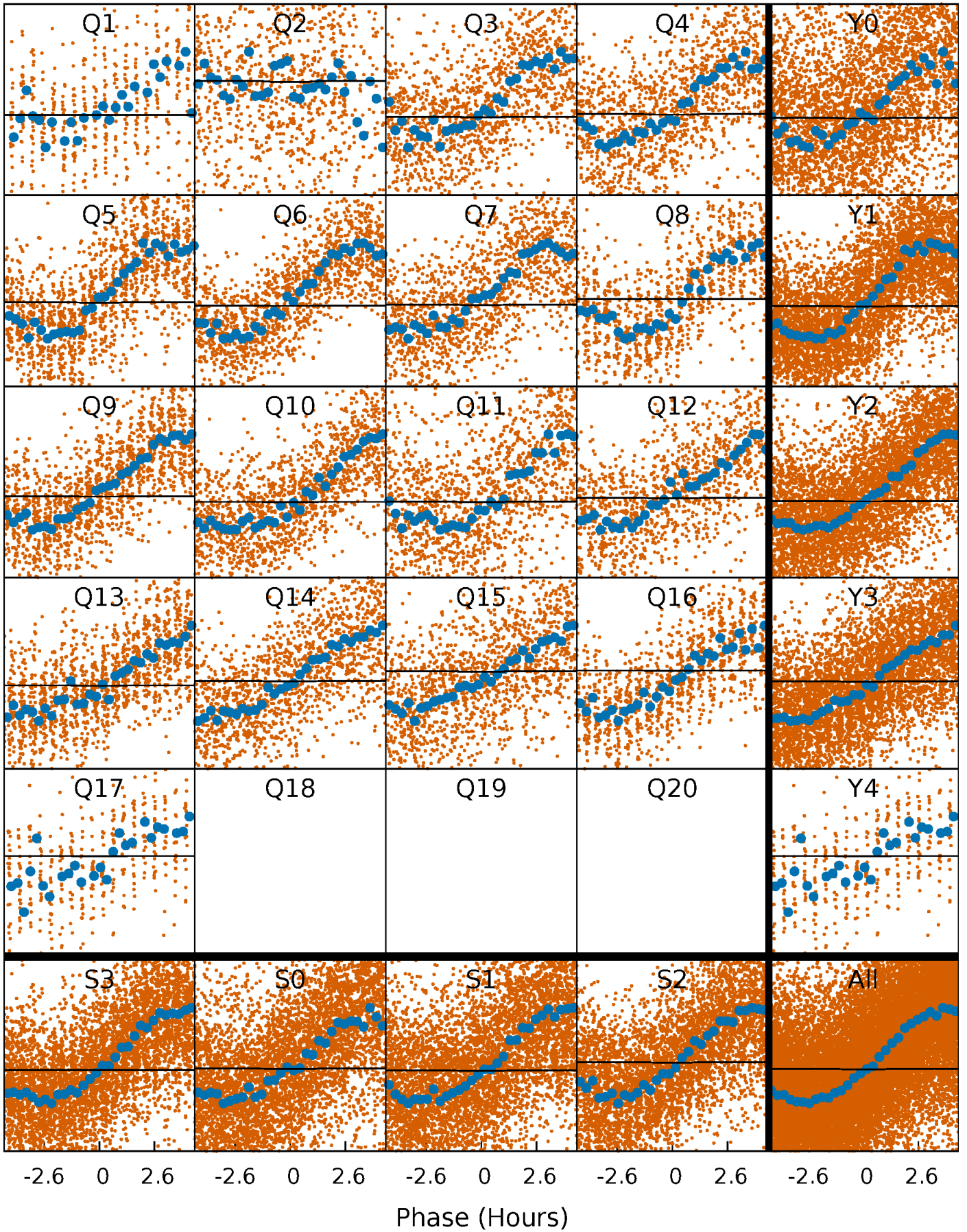
DV Quarter-Phased Transit Curves

TCE 007674265-01 P= 1.144497 Days $T_0=131.844742$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

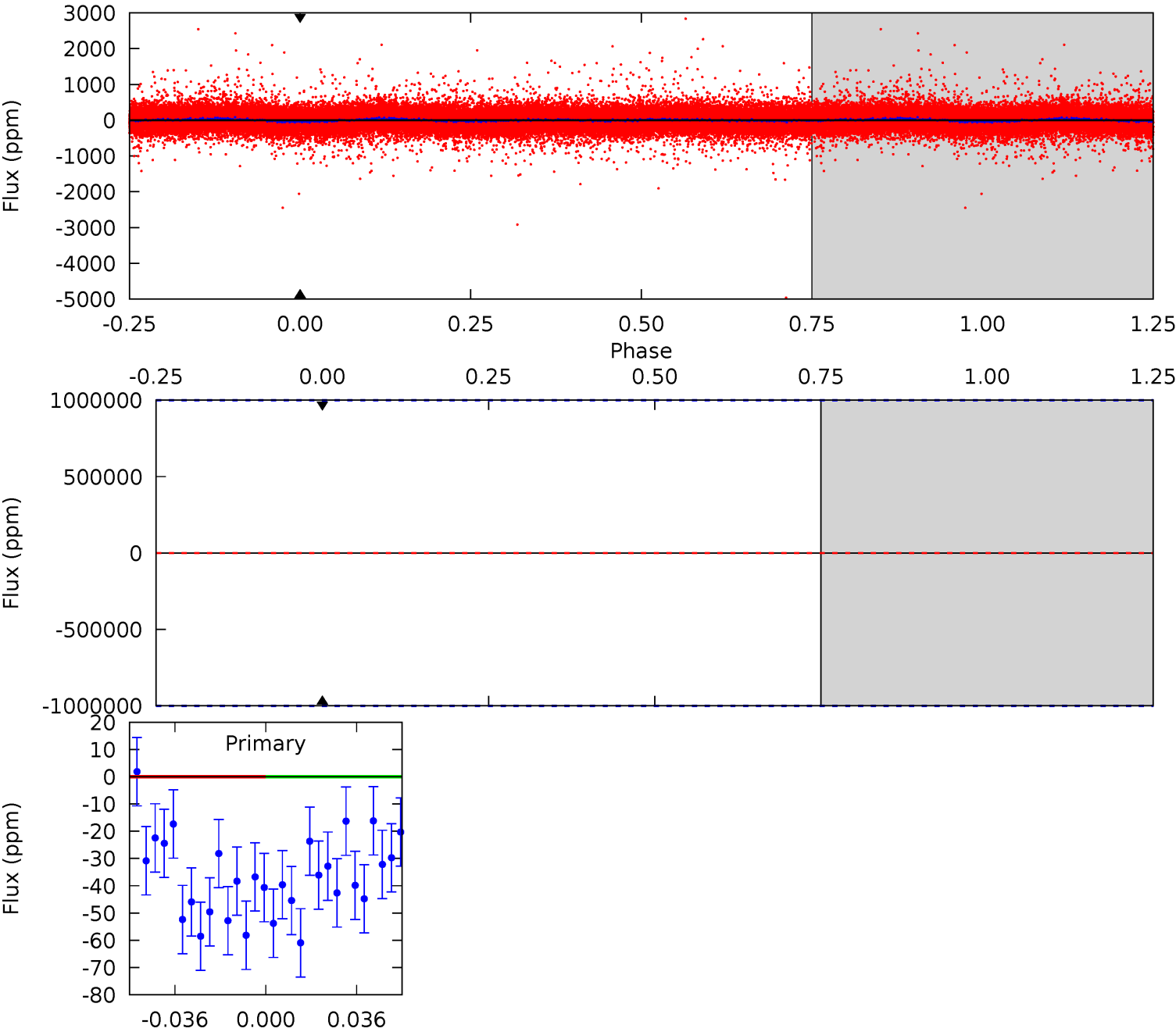
TCE 007674265-01 P= 1.144497 Days $T_0=131.620715$ (BKJD)



DV Model-Shift Uniqueness Test

007674265-01, P = 1.144497 Days, E = 130.700245 Days

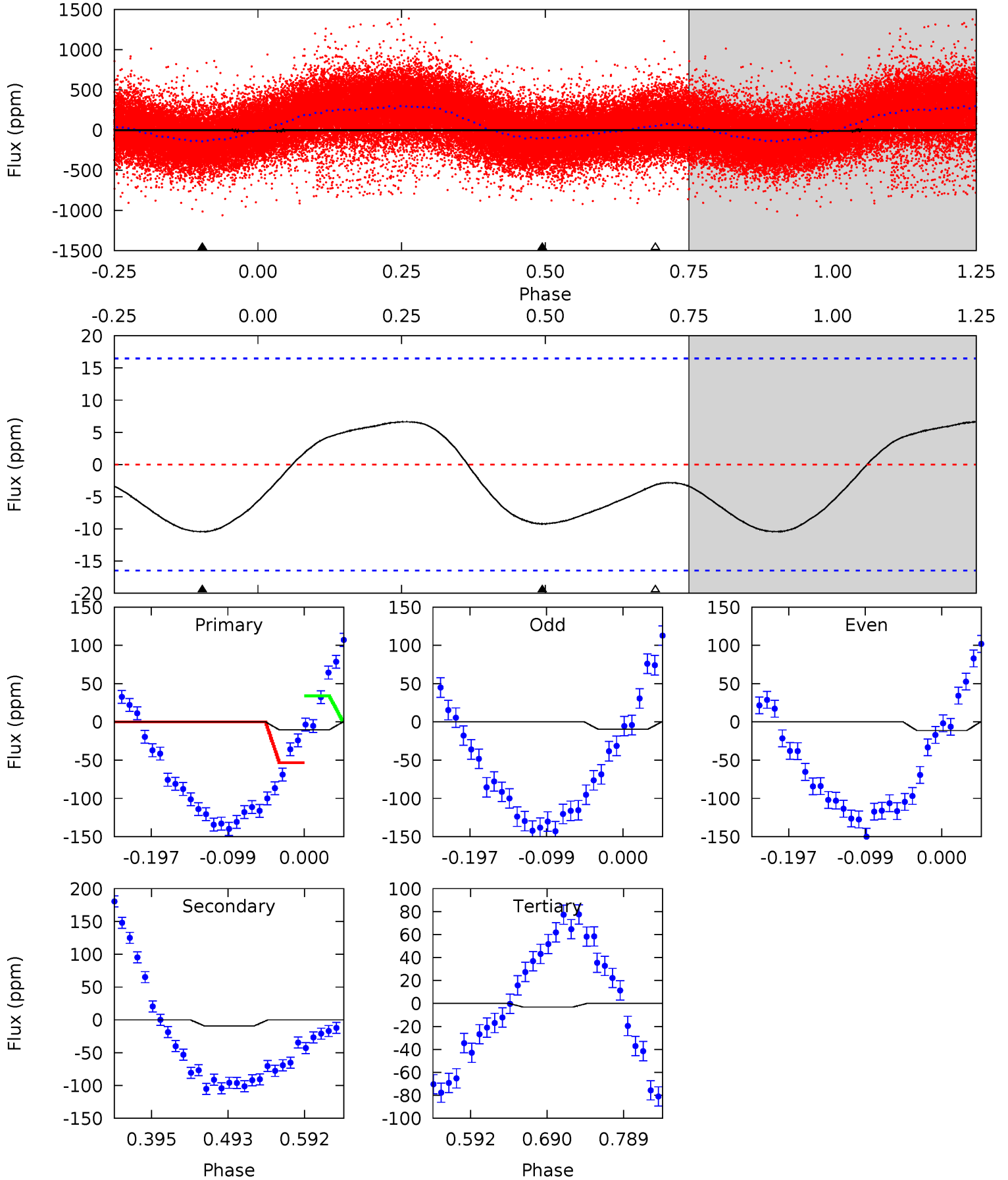
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007674265-01, P = 1.144497 Days, E = 130.476218 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.89	2.56	0.88	0	4.57	1.65	1.27	2.02	2.89	1.68	2.56	0.25	1.06	0.39	3.46



Stellar Parameters For KIC 007674265

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6857^{+163}_{-245}	$4.153^{+0.185}_{-0.185}$	$-0.360^{+0.300}_{-0.300}$	$1.559^{+0.468}_{-0.383}$	$1.265^{+0.182}_{-0.203}$	$0.471^{+0.465}_{-0.233}$
	+2%/-4%	+4%/-4%	+83%/-83%	+30%/-25%	+14%/-16%	+99%/-49%
Source	PHO1	KIC0	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 007674265-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$12.63^{+13.17}_{-8.80}$	3479^{+281}_{-264}	-6170^{+35528}_{-30438}	$-5.656^{+304.912}_{-347.338}$
Alt.	-9 ± 4	$11.34^{+12.20}_{-8.05}$	3469^{+255}_{-261}	-3267^{+614}_{-195}	$0.020^{+0.217}_{-0.016}$

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 $A_{obs} \gg 1.0$

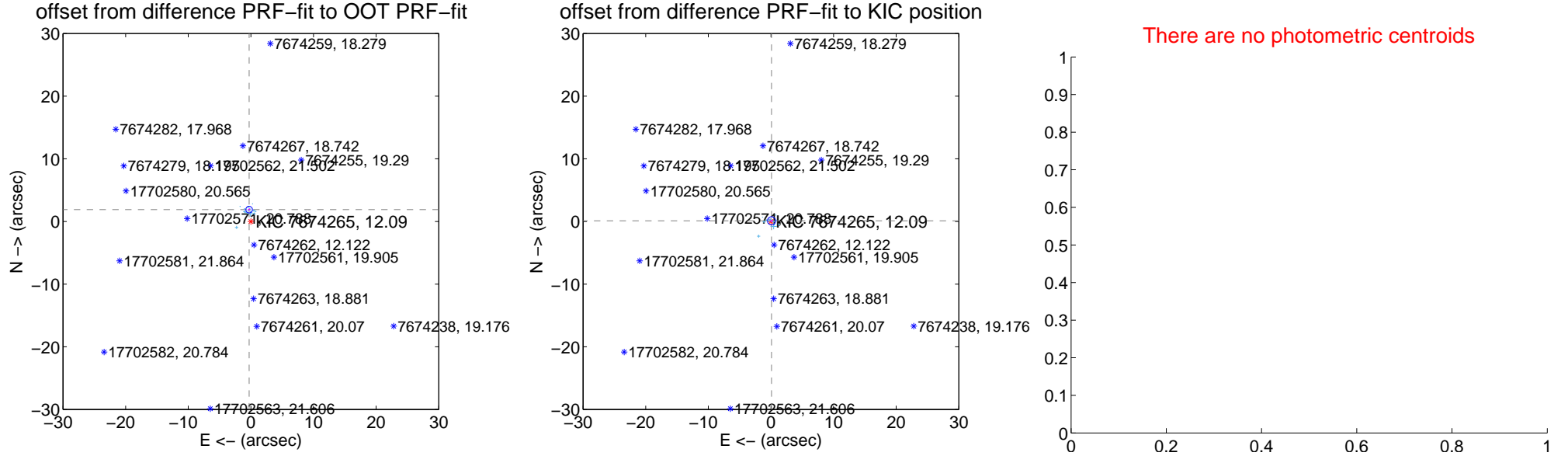
DV Centroid Data

Supplemental centroid analysis for 007674265-01. Kepler magnitude: 12.09. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

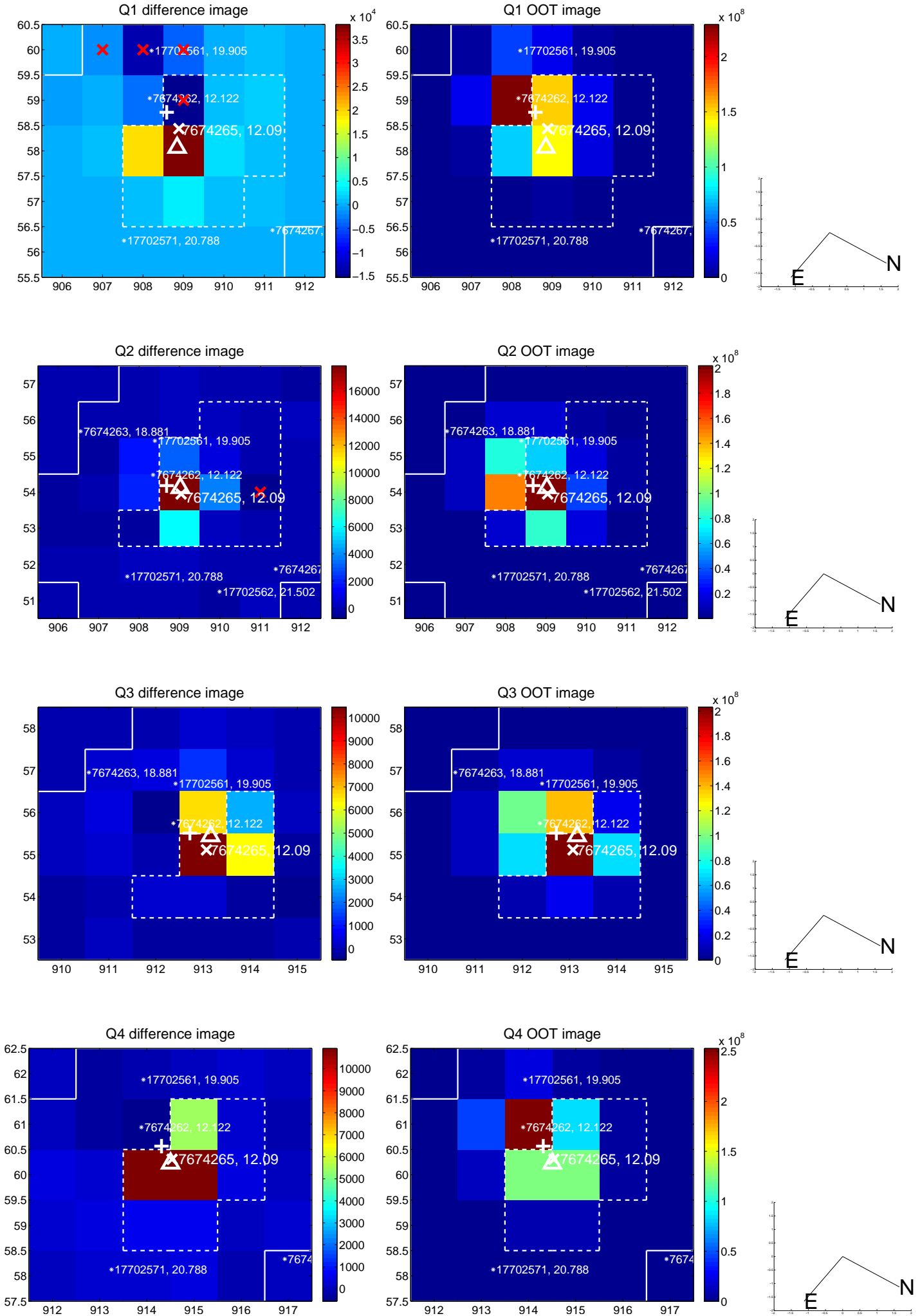
The direct PRF centroid is offset from the target star catalog position by about 1.81 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.914 \pm 0.175	10.92	0.278 \pm 0.199	1.894 \pm 0.187
PRF-fit source offset from KIC position	0.137 \pm 0.217	0.63	-0.093 \pm 0.208	0.101 \pm 0.179
photometric centroid source offset	—	—	—	—

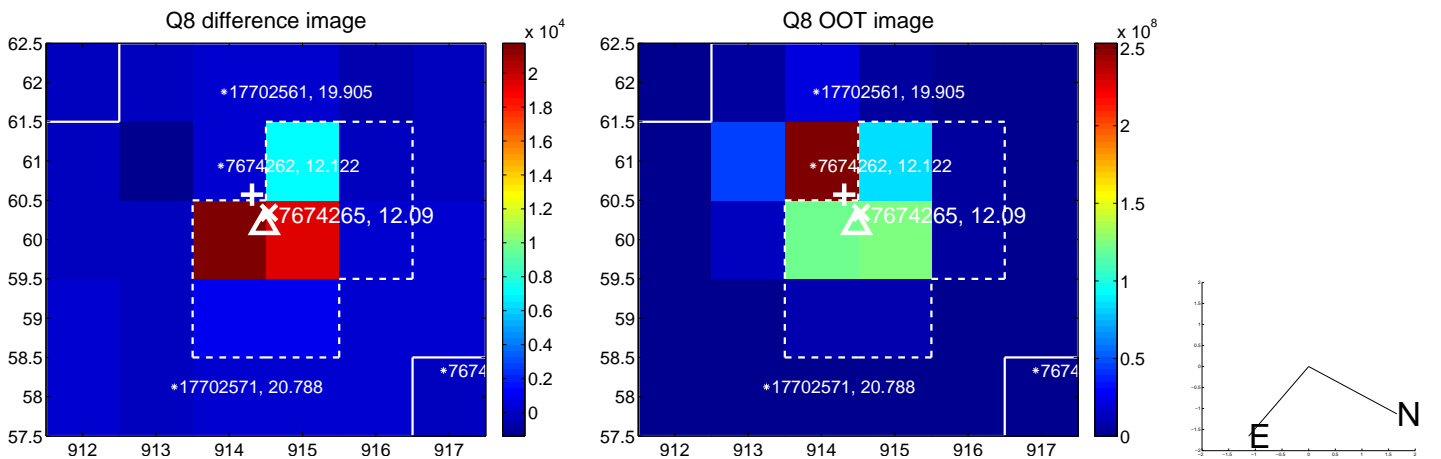
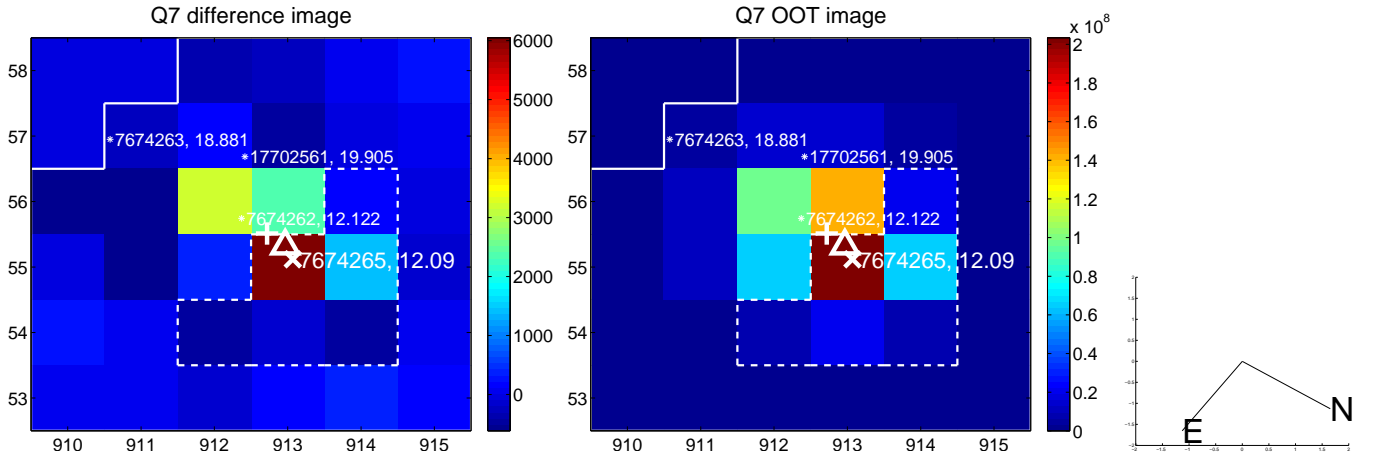
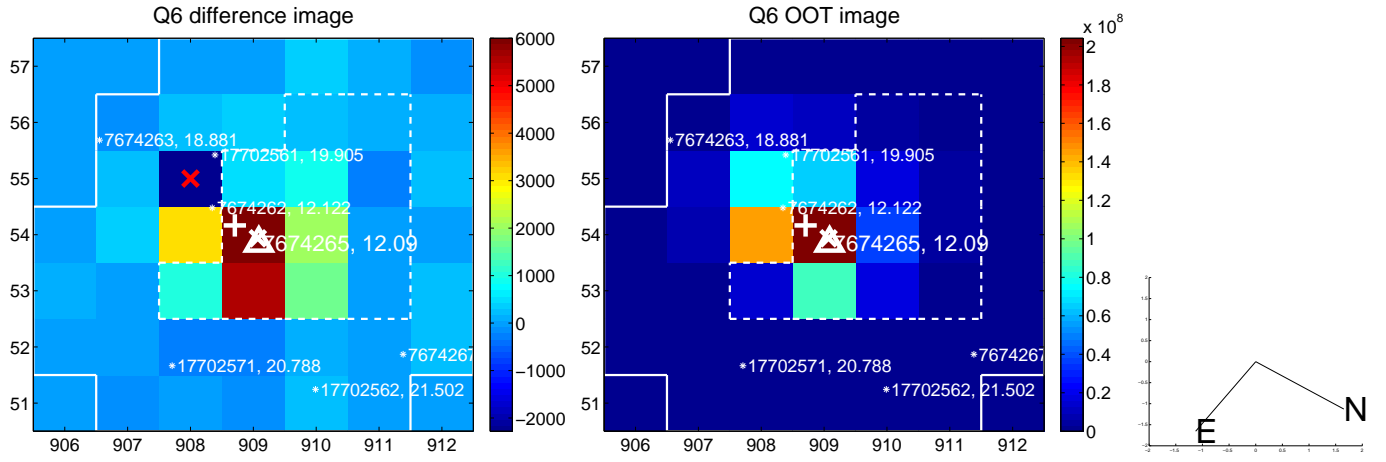
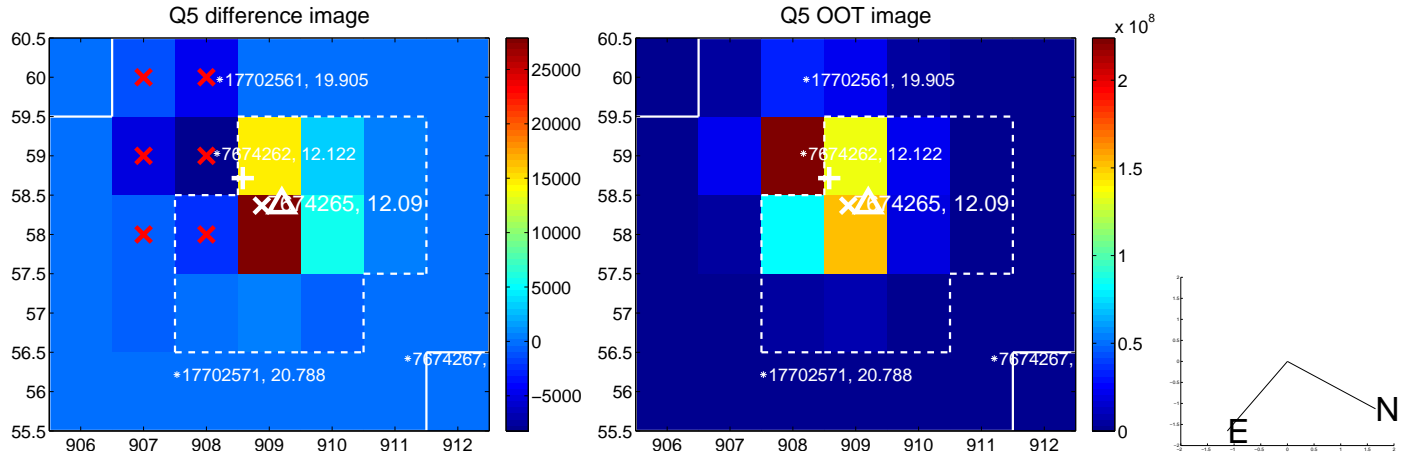


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

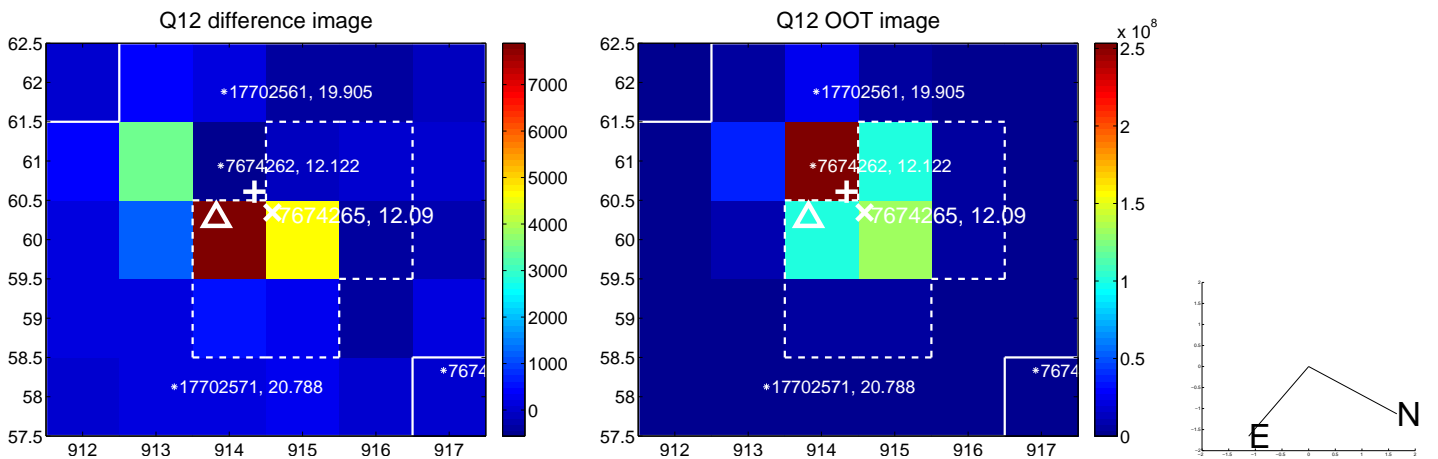
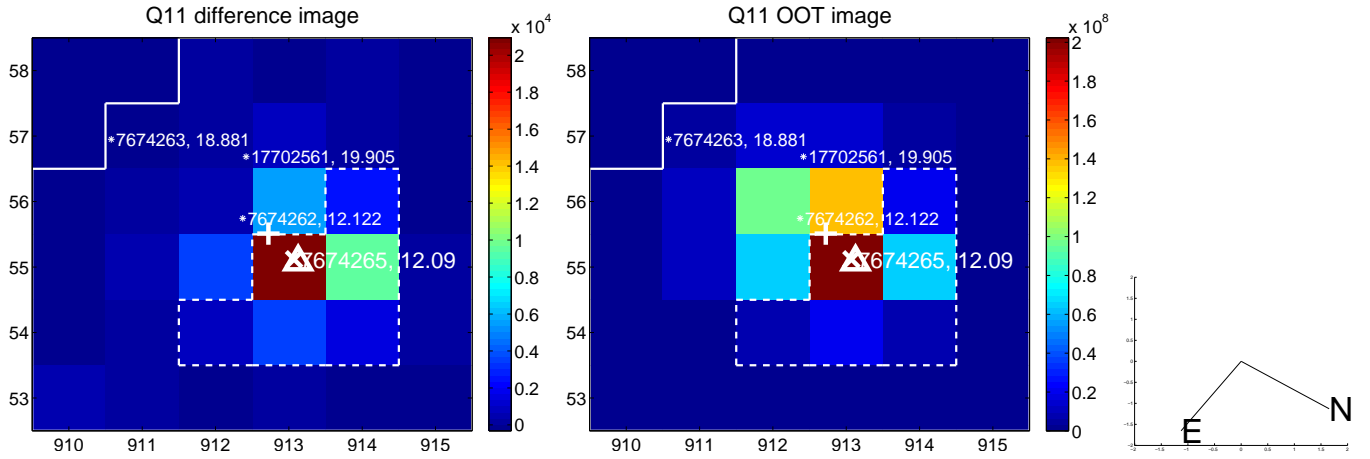
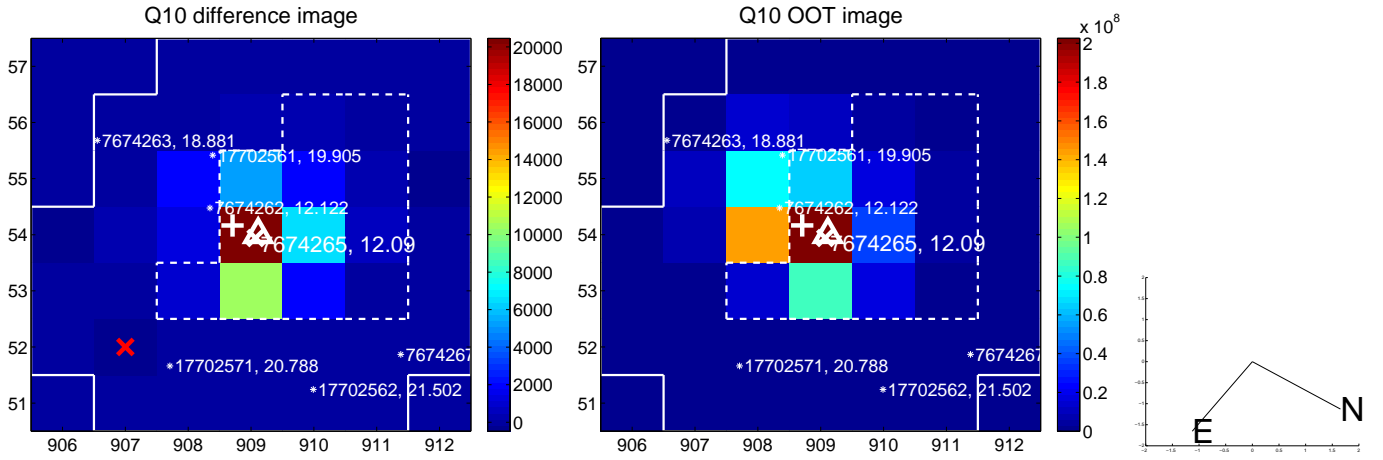
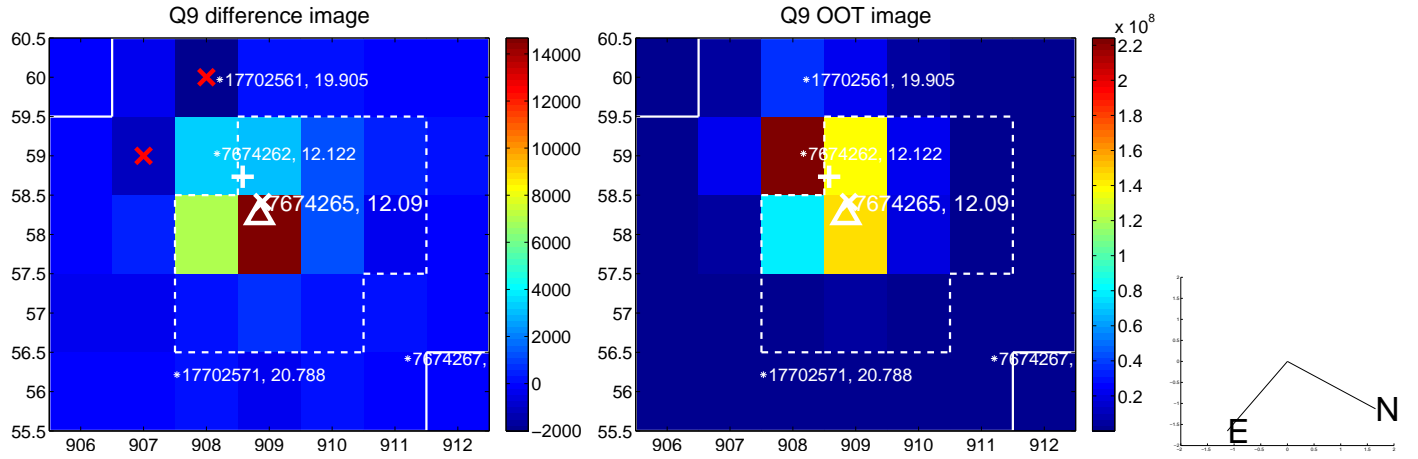
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



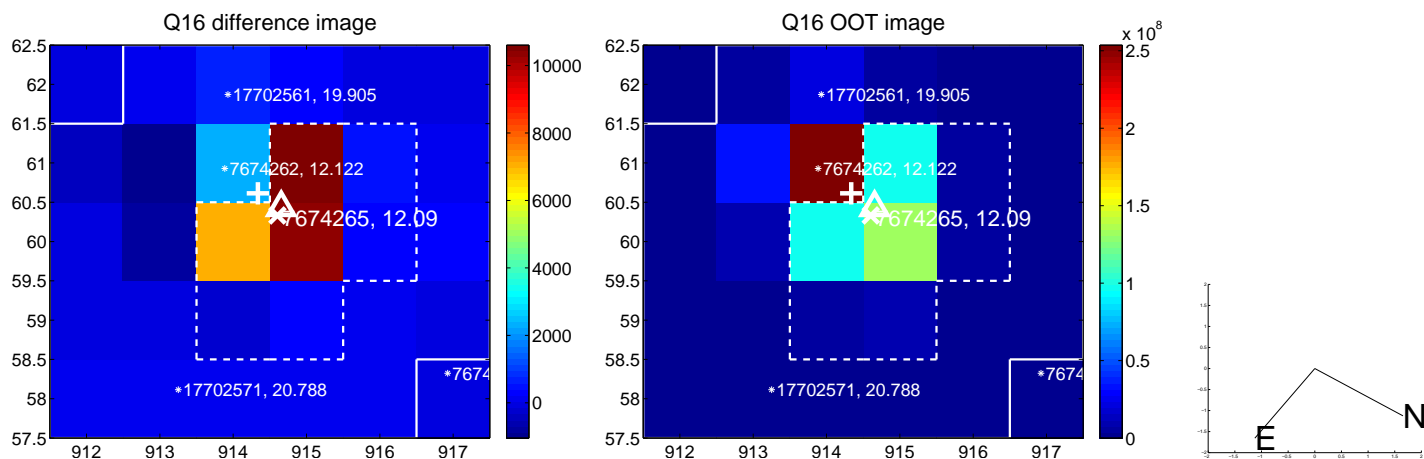
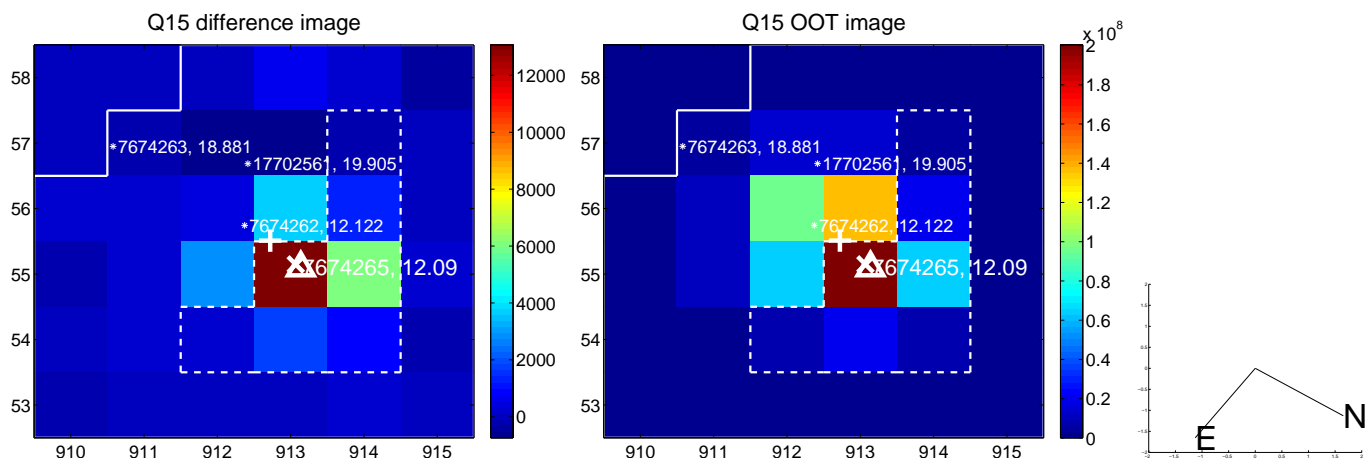
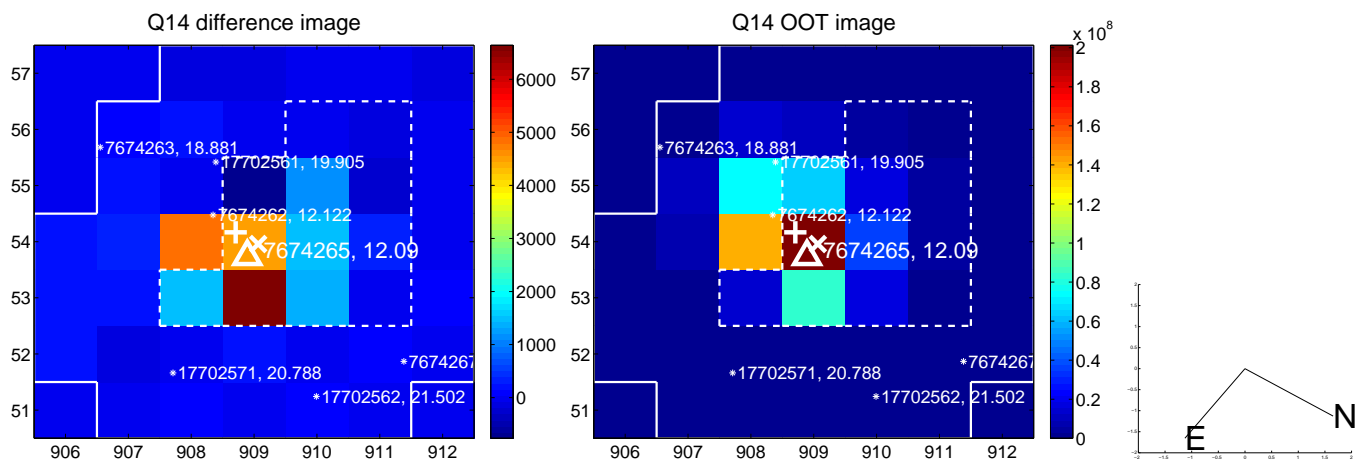
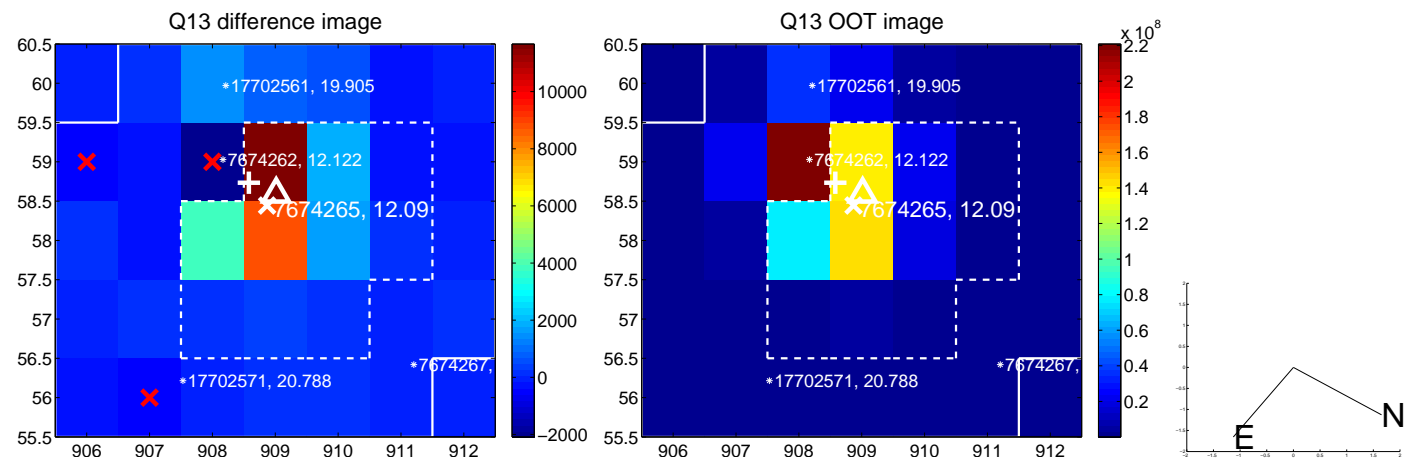
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



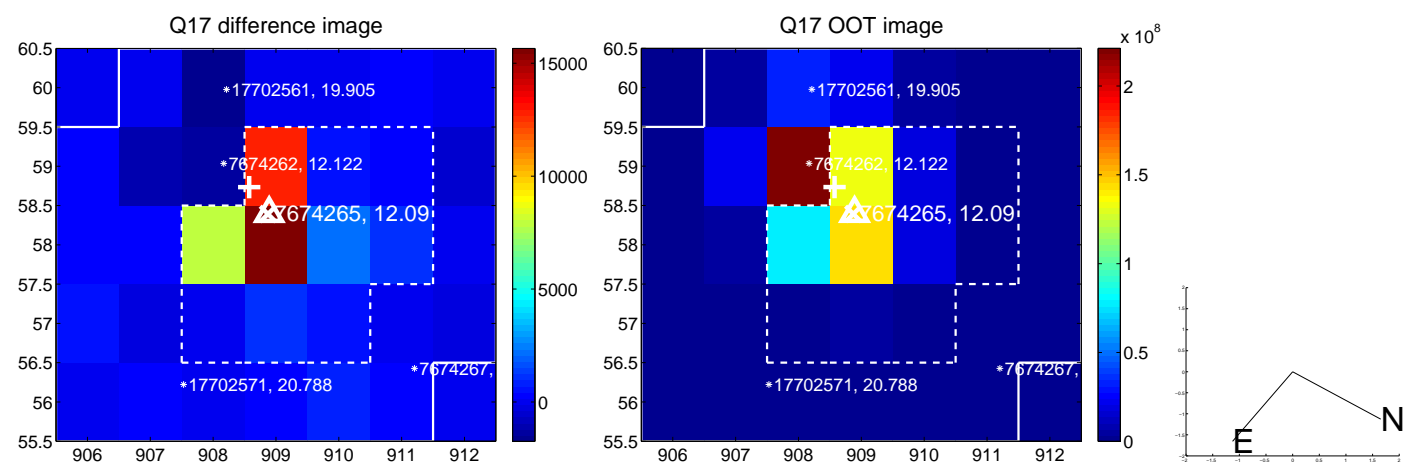
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folded centroid time series figure for this object.

UKIRT Image

Declination

