

KIC 008264520

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})
008264520-01	OBS	No	1.149585	132.447805	0.3	9.001	7.8	0.3	1.91	6629	0.10	10716.35

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264520-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

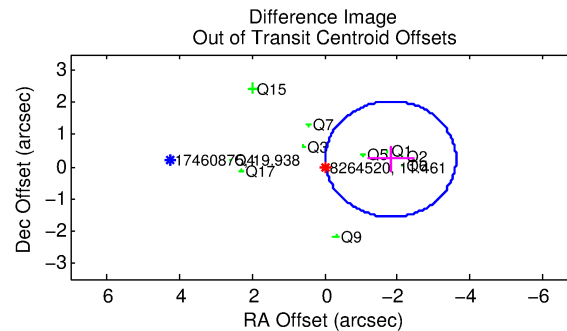
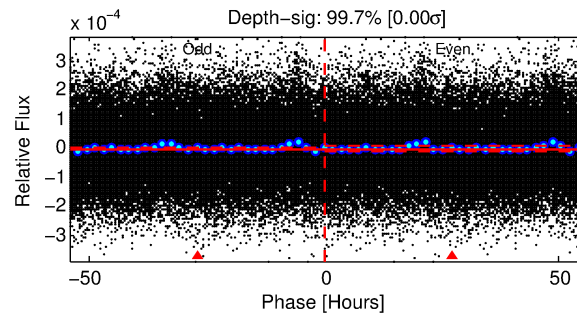
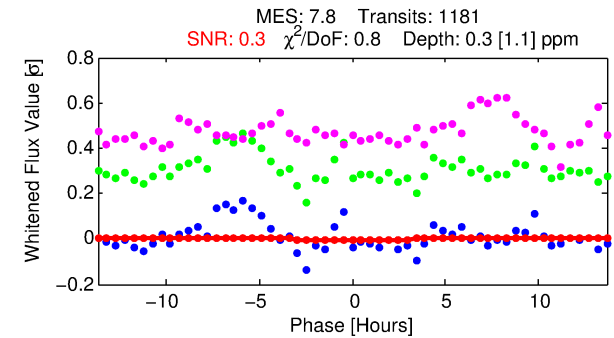
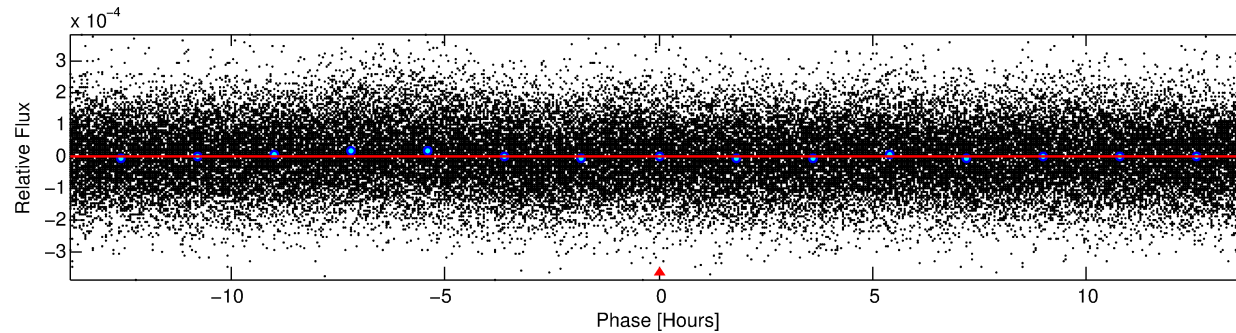
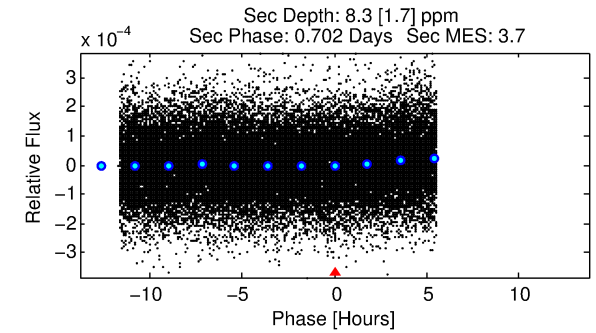
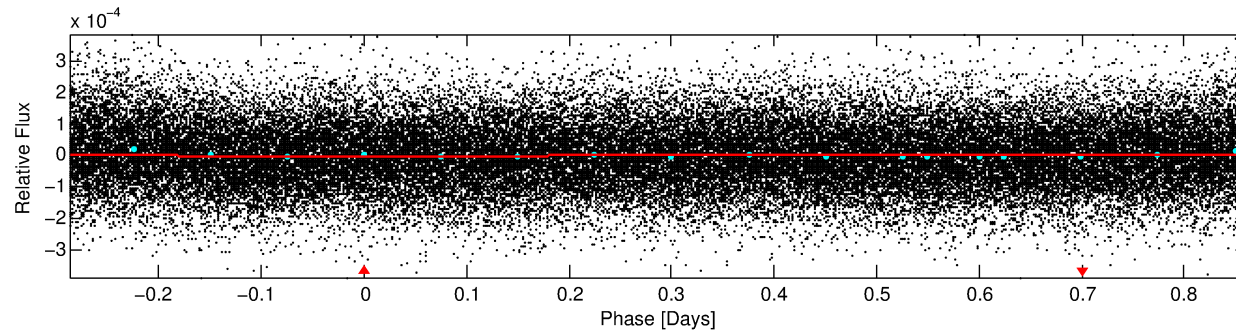
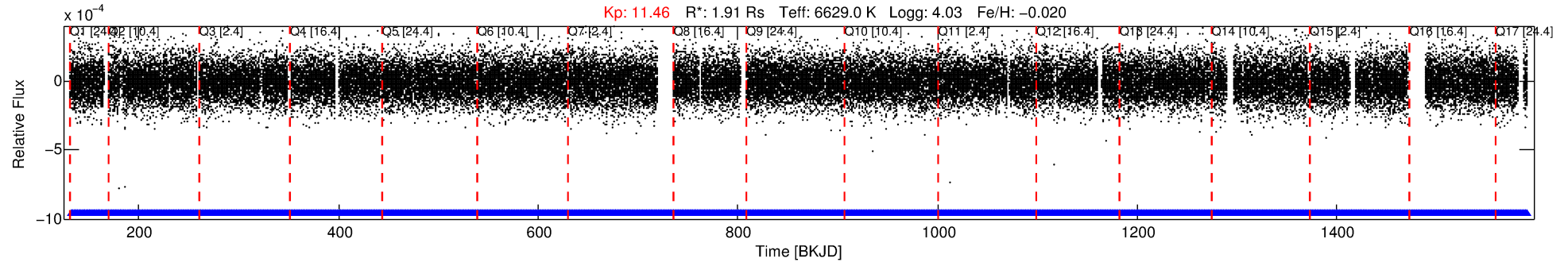
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264520-01

No Significant Match Found

DV One-Page Summary

KIC: 8264520 Candidate: 1 of 1 Period: 1.150 d



DV Fit Results:

Period = 1.14959 [0.00080] d
Epoch = 132.4478 [0.2605] BKJD
Rp/R* = 0.0005 [0.0030]
a/R* = 1.14 [8.55]
b = 0.43 [61.63]
Seff = 10716.35 [5158.79]
Teq = 2594 [312] K
Rp = 0.10 [0.62] Re
a = 0.0242 [0.0073] AU
Ag = 263.91 [3267.48] [0.08σ]
Teffp = 16167 [50013] K [0.27σ]

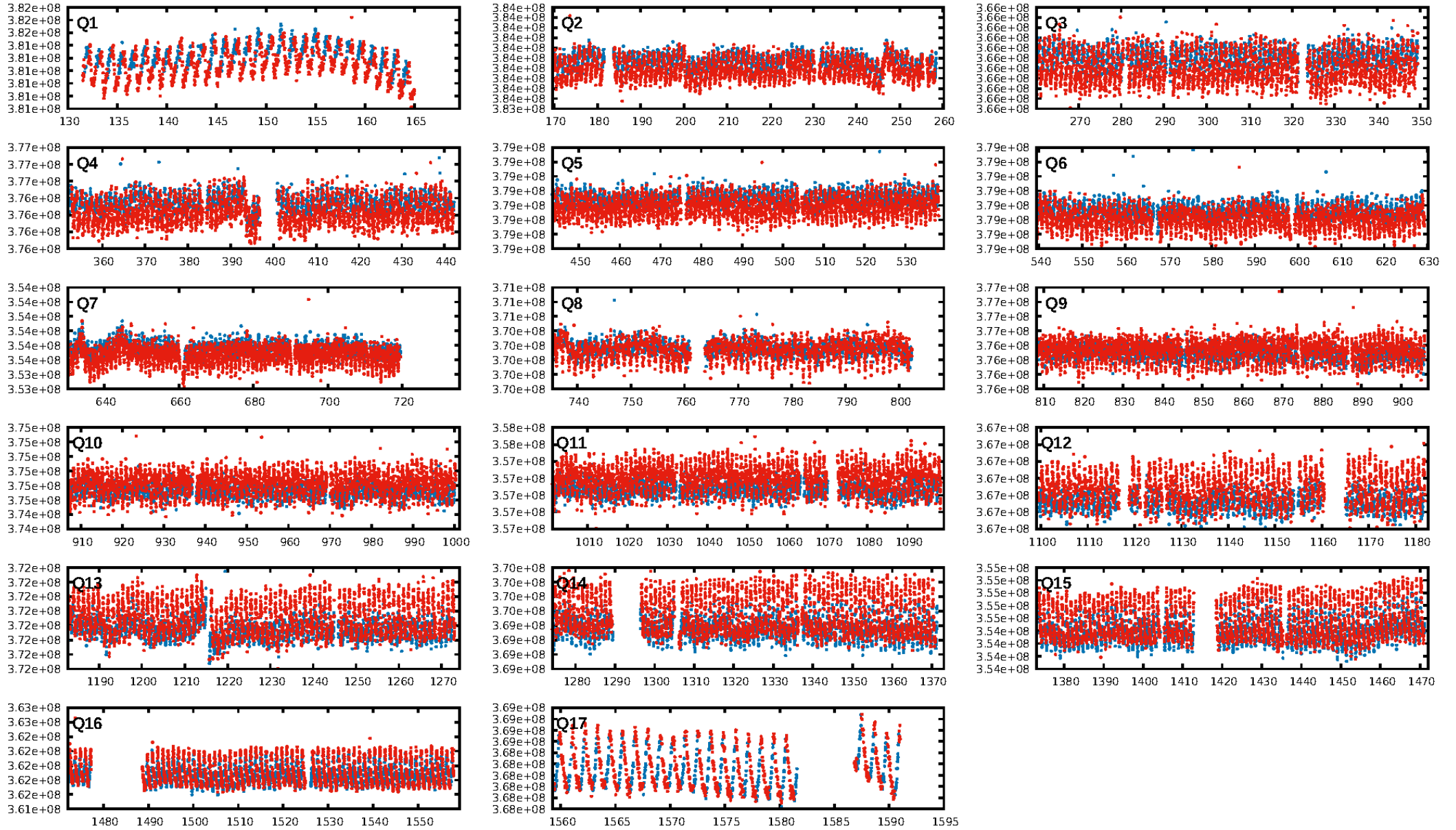
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1128/1128]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 1.829 arcsec [3.04σ]
KicOffset-rm: 1.751 arcsec [3.18σ]
OotOffset-st: 2/3/1/4 [10]
KicOffset-st: 2/3/1/4 [10]
DiffImageQuality-fgm: 0.80 [8/10]
DiffImageOverlap-fno: 1.00 [17/17]

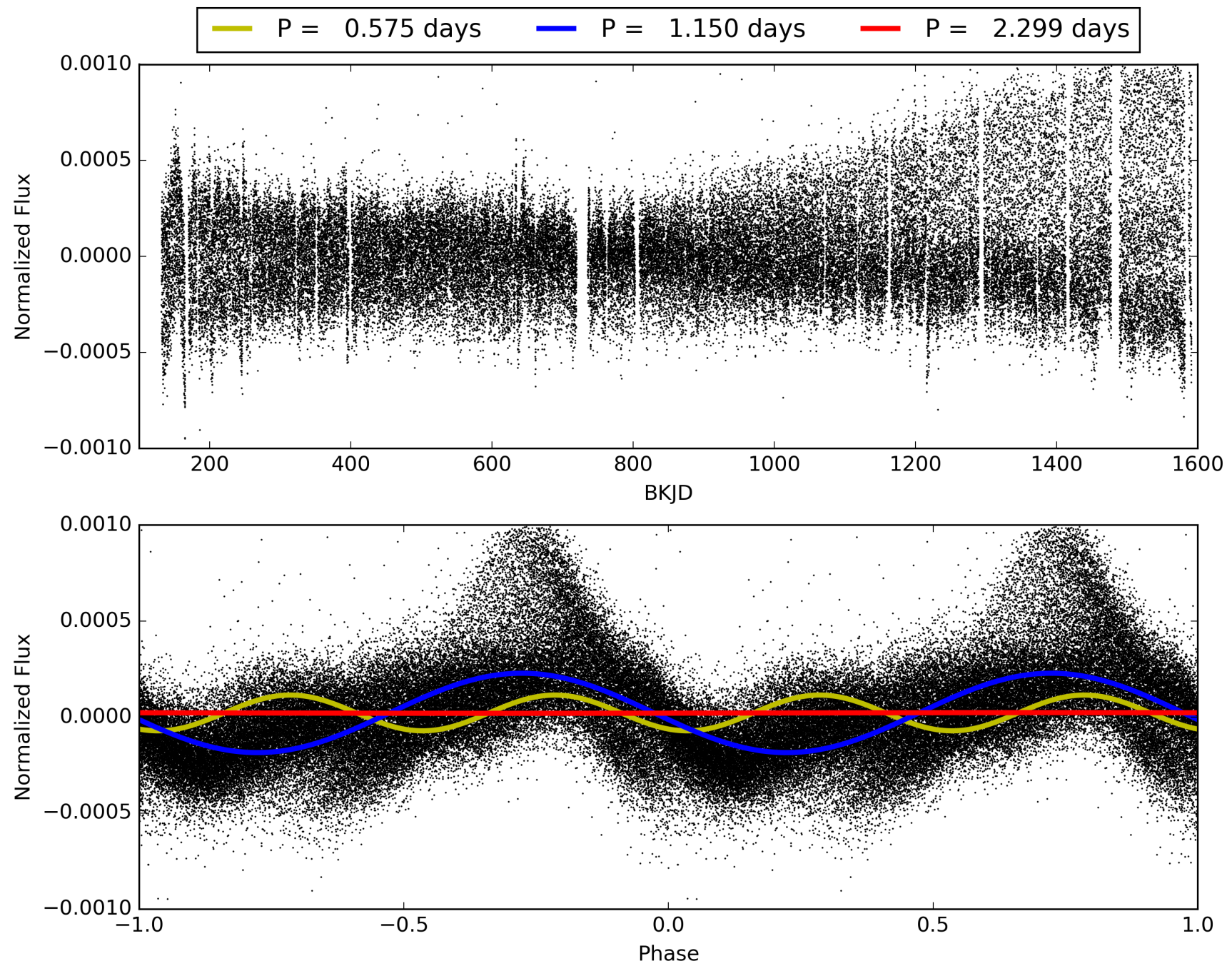
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 21:30:26 Z

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

TCE 008264520-01, PDC Light Curves

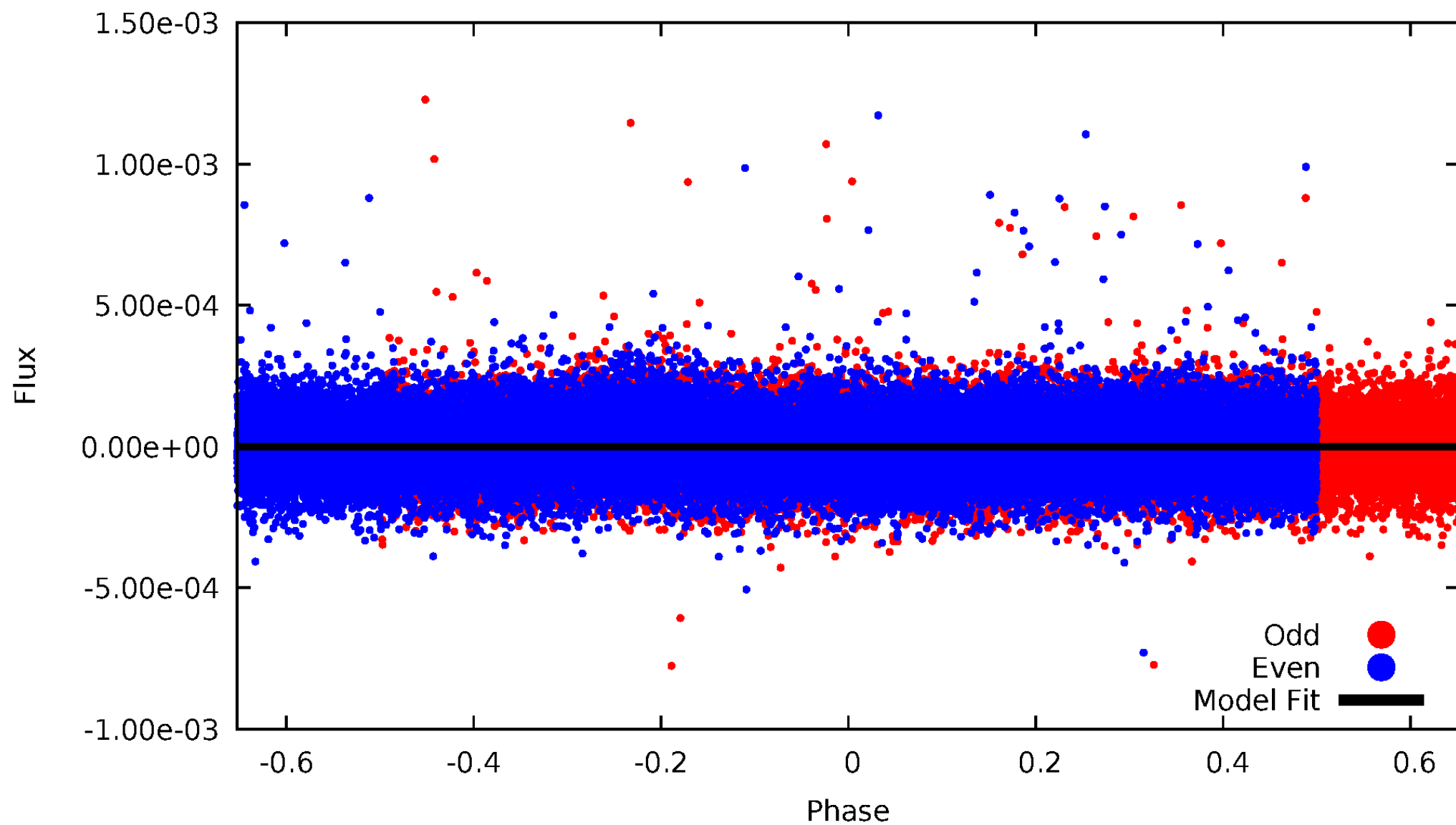


TCE 008264520-01



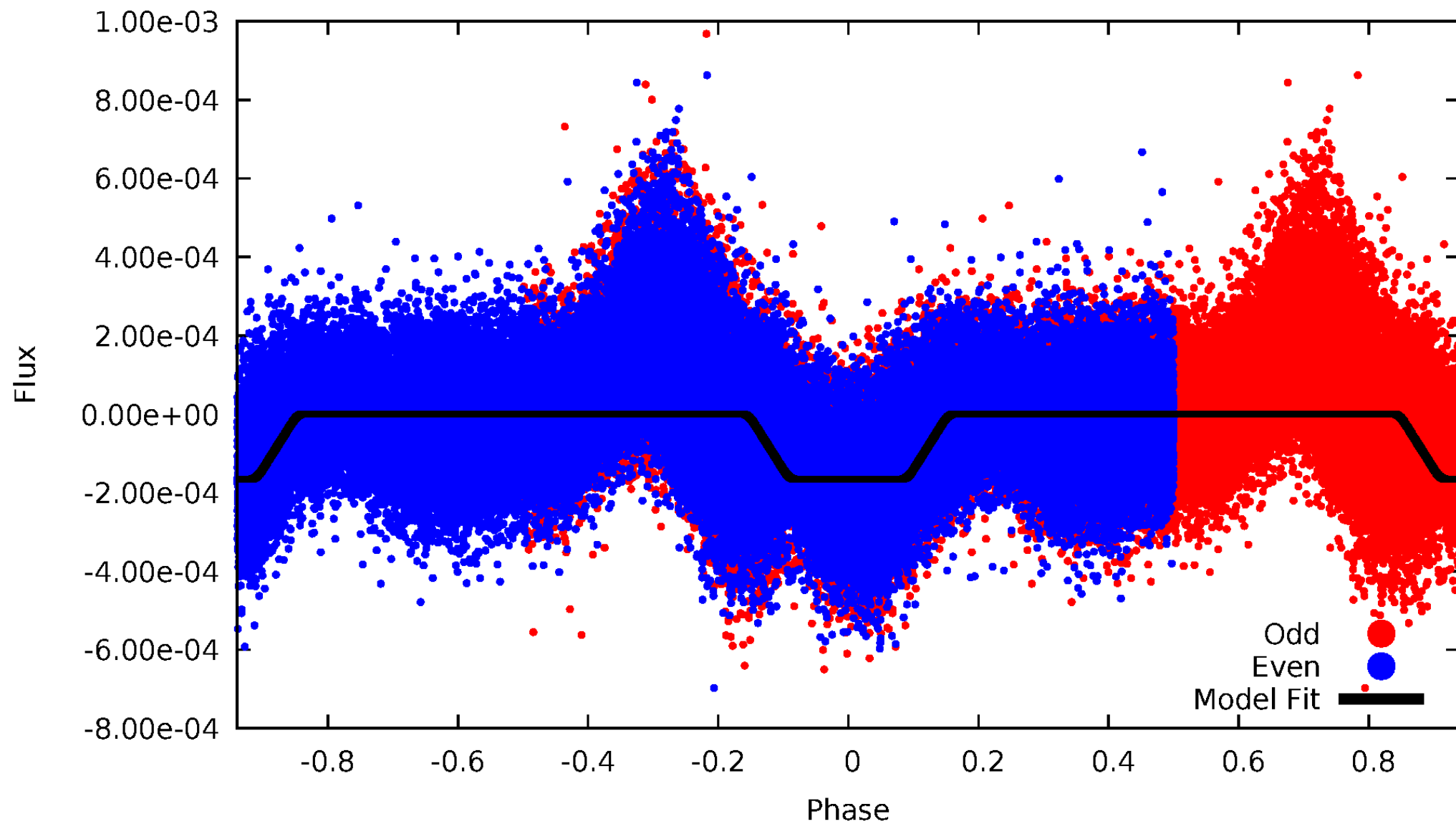
DV Odd/Even

TCE 008264520-01

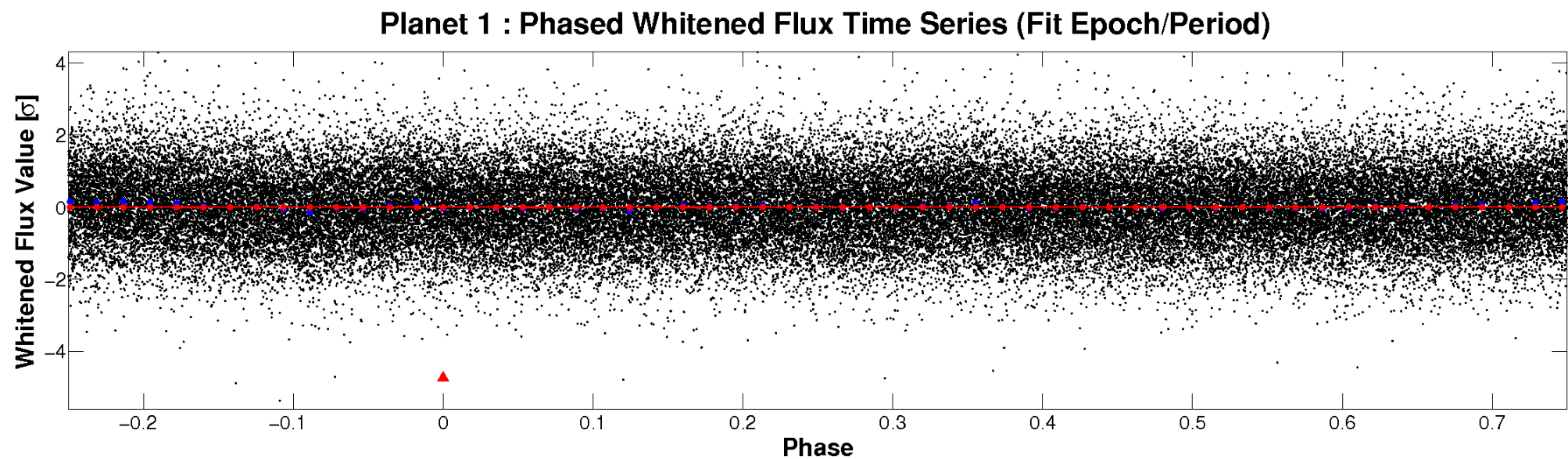
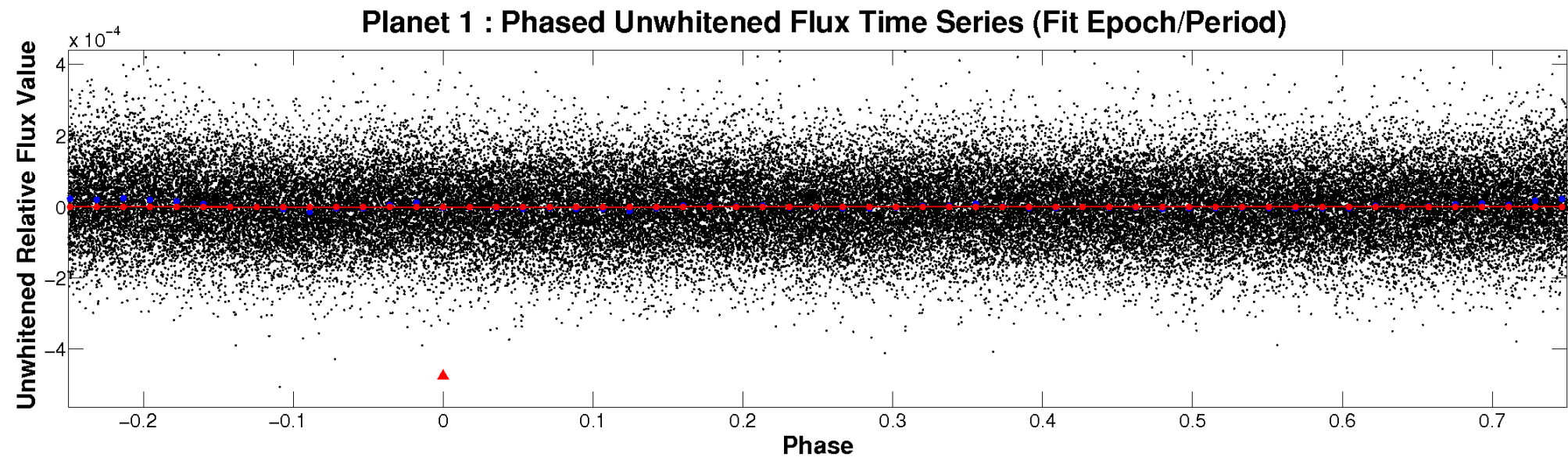


ALT Odd/Even

TCE 008264520-01

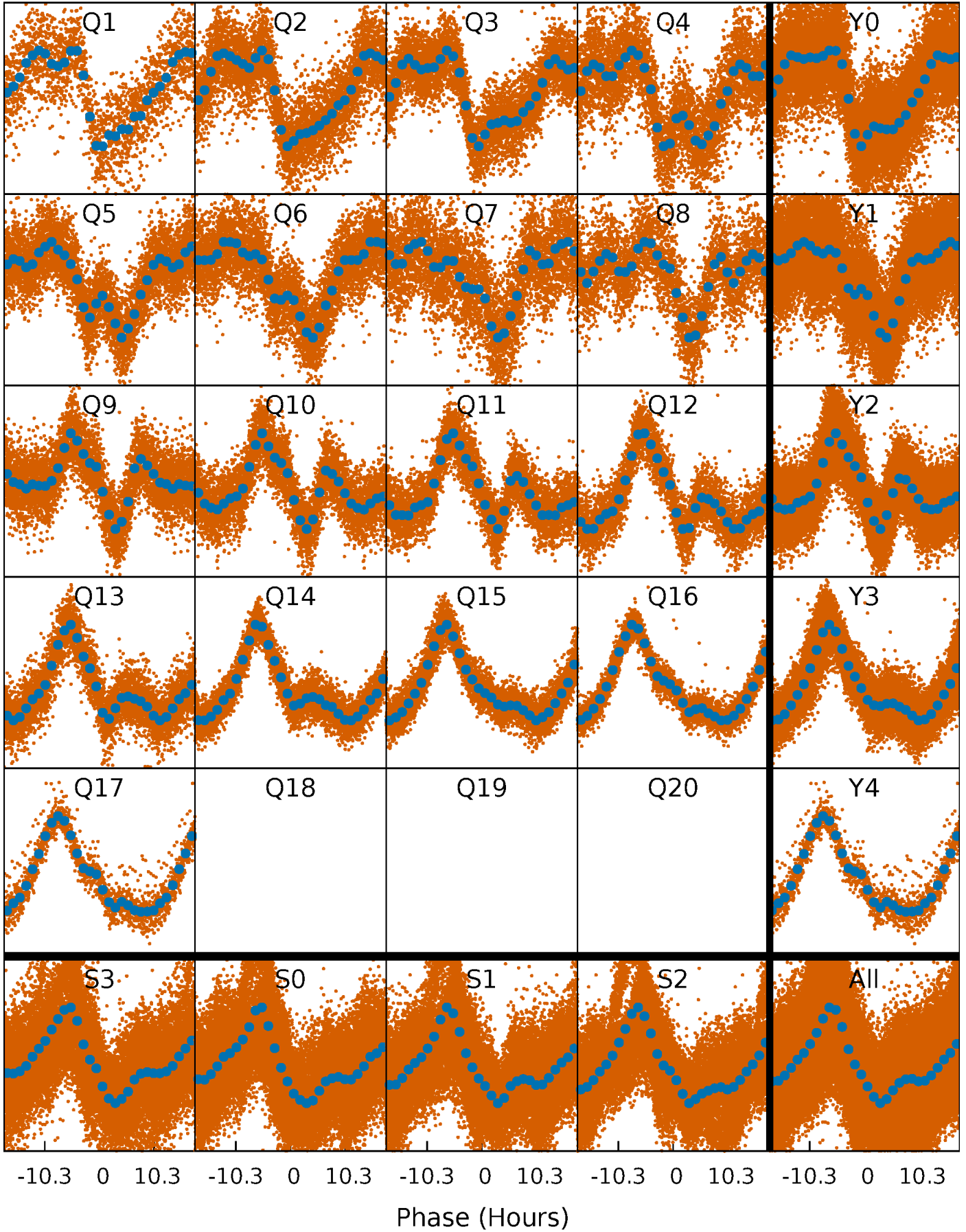


Non-Whitened Vs. Whitened Light Curve



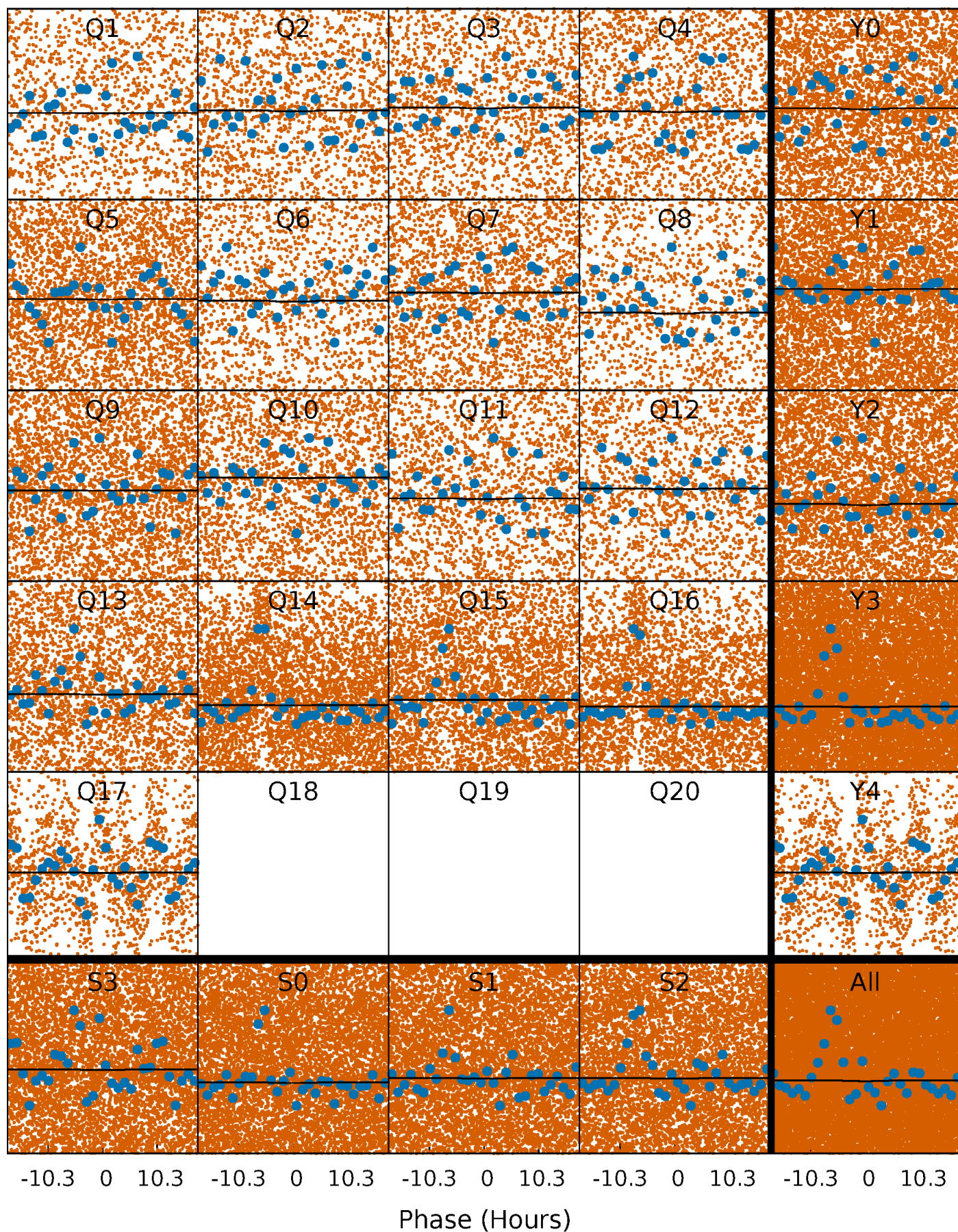
PDC Quarter-Phased Transit Curves

TCE 008264520-01 P= 1.149585 Days $T_0=132.447805$ (BKJD)



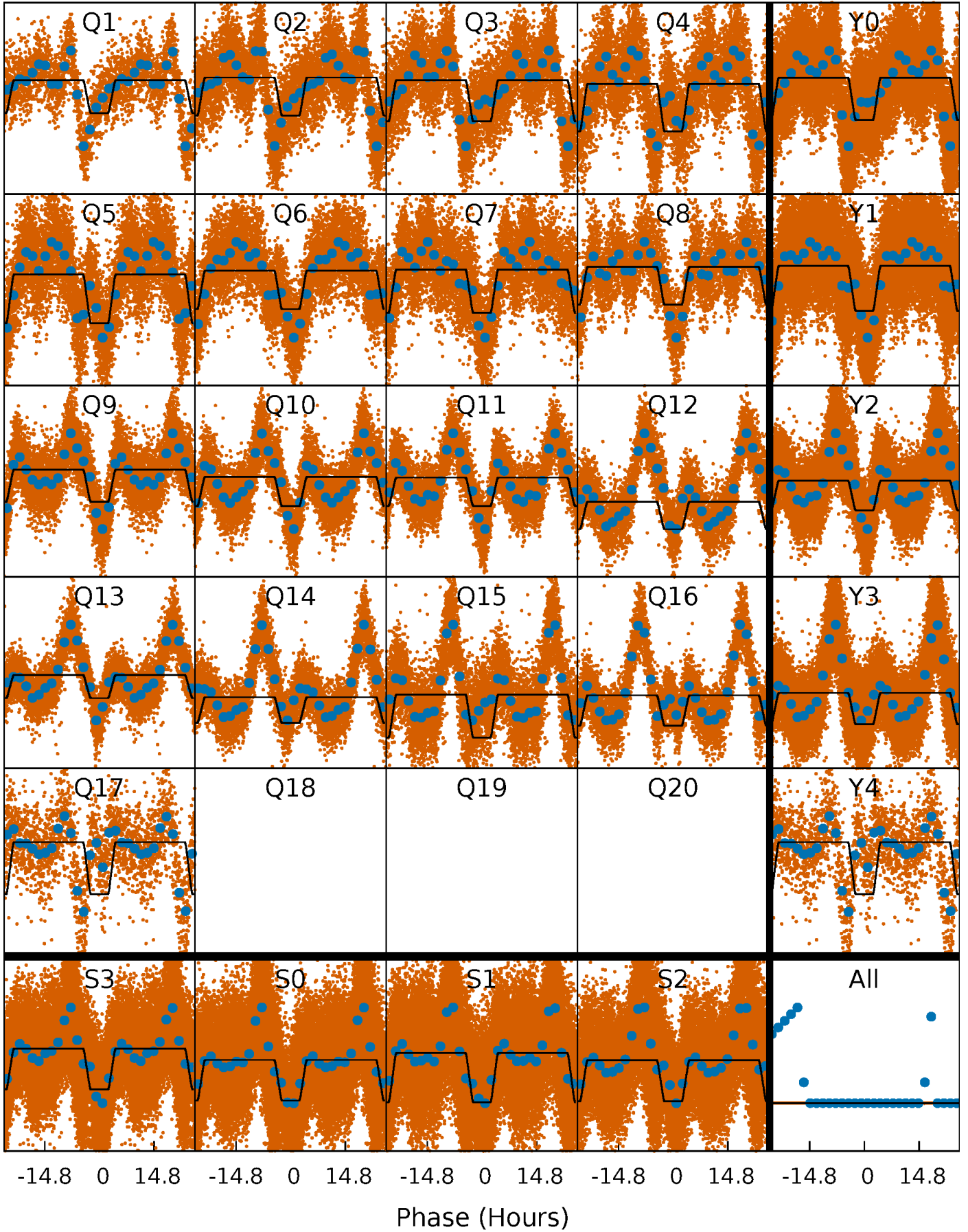
DV Quarter-Phased Transit Curves

TCE 008264520-01 P= 1.149585 Days $T_0=132.447805$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

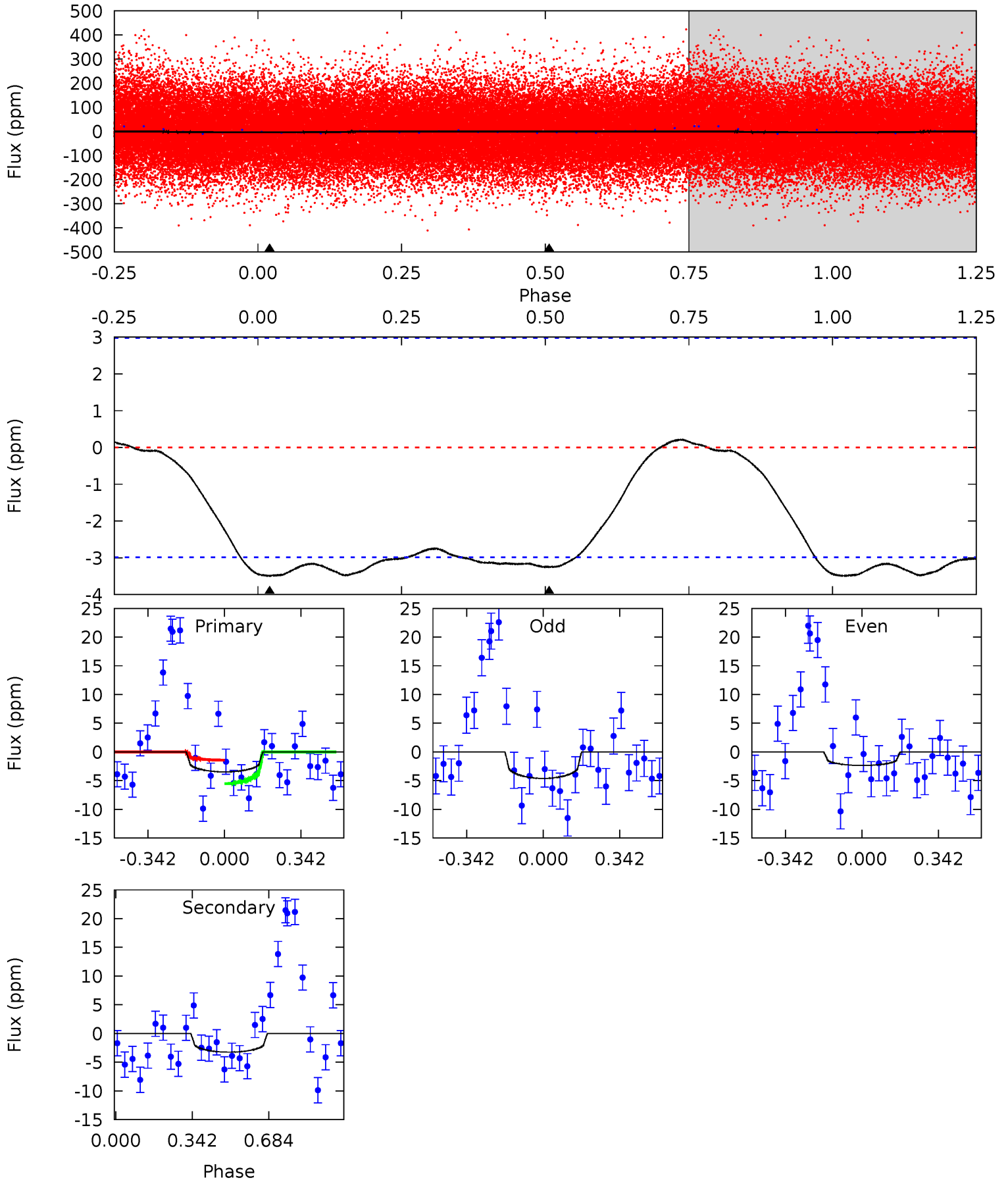
TCE 008264520-01 P= 1.149502 Days $T_0=132.603724$ (BKJD)



DV Model-Shift Uniqueness Test

008264520-01, P = 1.149585 Days, E = 131.298220 Days

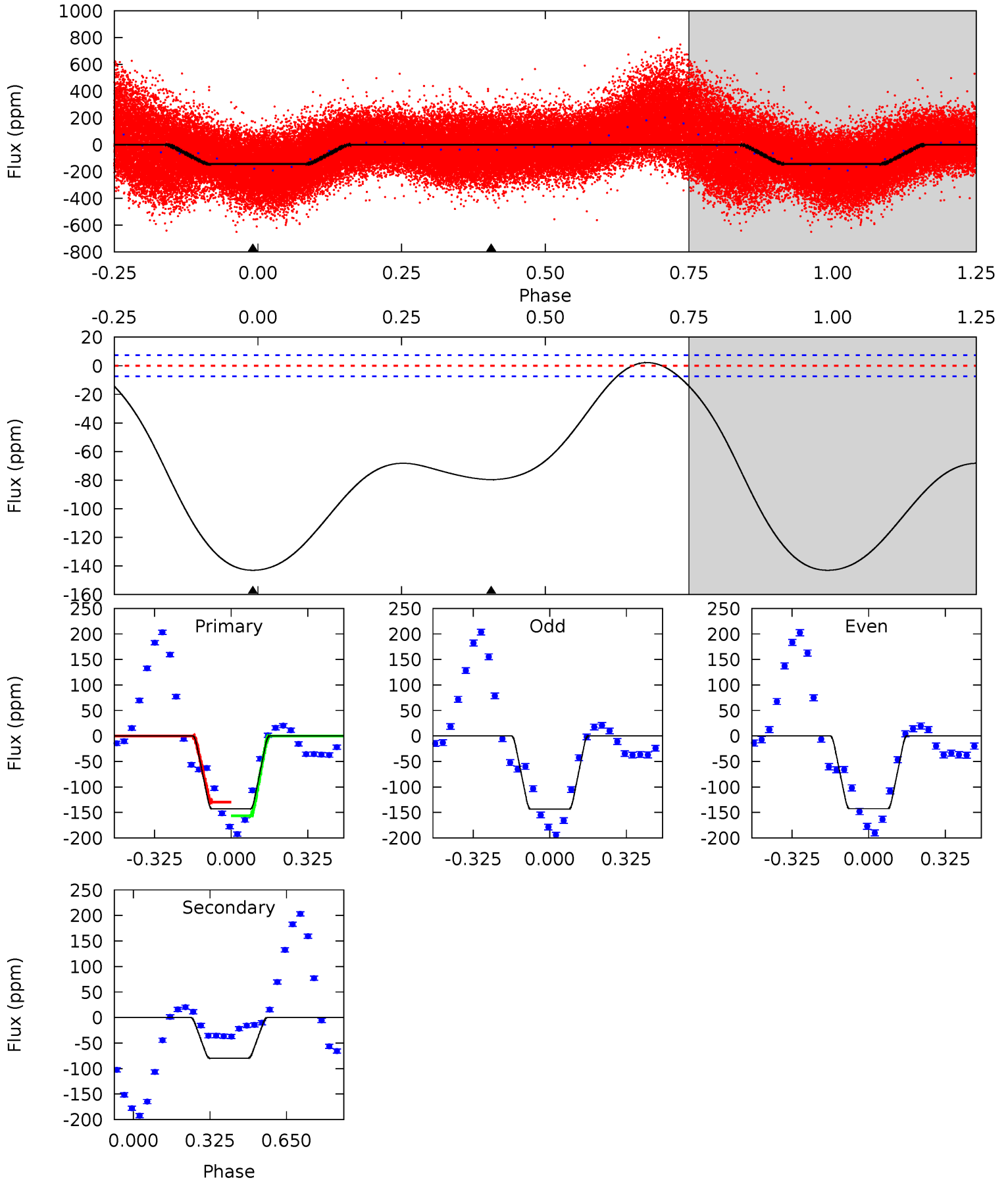
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.03	4.68	0	0	4.30	0.95	2.12	5.03	5.03	4.68	4.68	1.64	1.01	0.06	3.08



Alt Model-Shift Uniqueness Test

008264520-01, P = 1.149502 Days, E = 131.454222 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
83.3	46.4	0	0	4.31	0.98	2.69	83.3	83.3	46.4	46.4	0.30	0.97	0.02	15.4



Stellar Parameters For KIC 008264520

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6629^{+186}_{-255}	$4.034^{+0.258}_{-0.172}$	$-0.020^{+0.250}_{-0.300}$	$1.906^{+0.529}_{-0.647}$	$1.437^{+0.196}_{-0.294}$	$0.292^{+0.505}_{-0.144}$
	+3%/-4%	+6%/-4%	+1250%/-1500%	+28%/-34%	+14%/-20%	+173%/-49%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 008264520-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-3 ± 1	$0.46^{+0.48}_{-0.33}$	3613^{+272}_{-316}	5781^{+6662}_{-1662}	$4.935^{+44.466}_{-3.726}$
Alt.	-80 ± 2	$2.60^{+0.78}_{-0.77}$	3598^{+303}_{-329}	5429^{+845}_{-553}	$3.821^{+3.485}_{-1.585}$

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

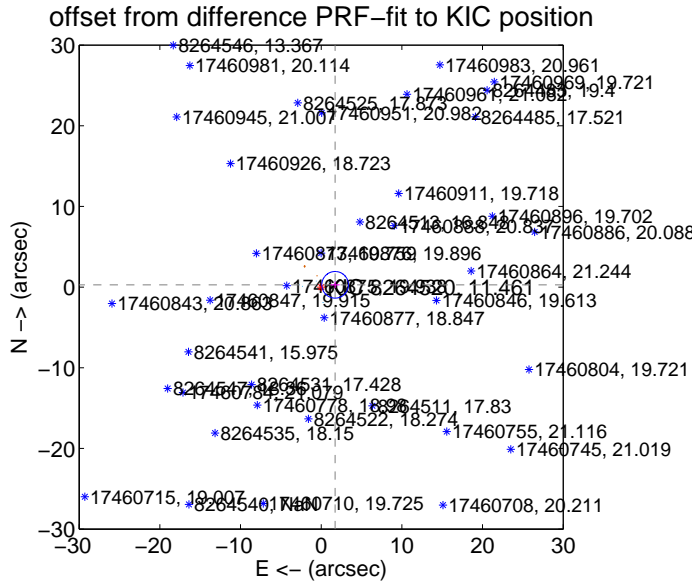
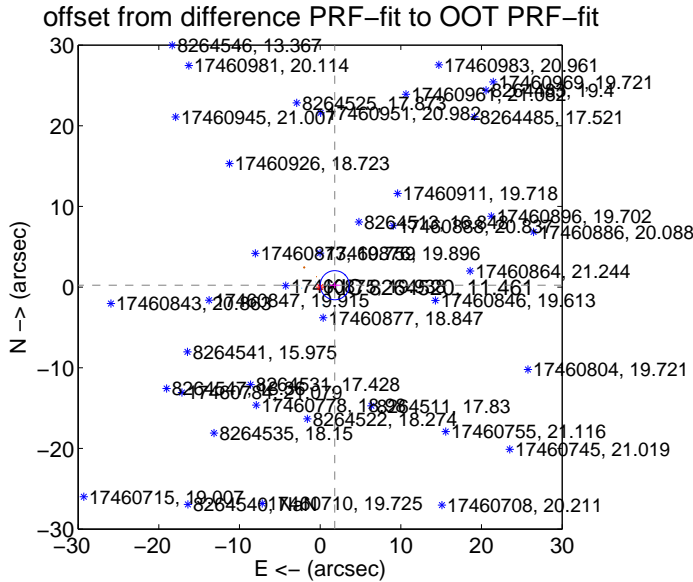
DV Centroid Data

Supplemental centroid analysis for 008264520-01. **Kepler magnitude: 11.46**. Transit SNR 0.25

There are 8 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

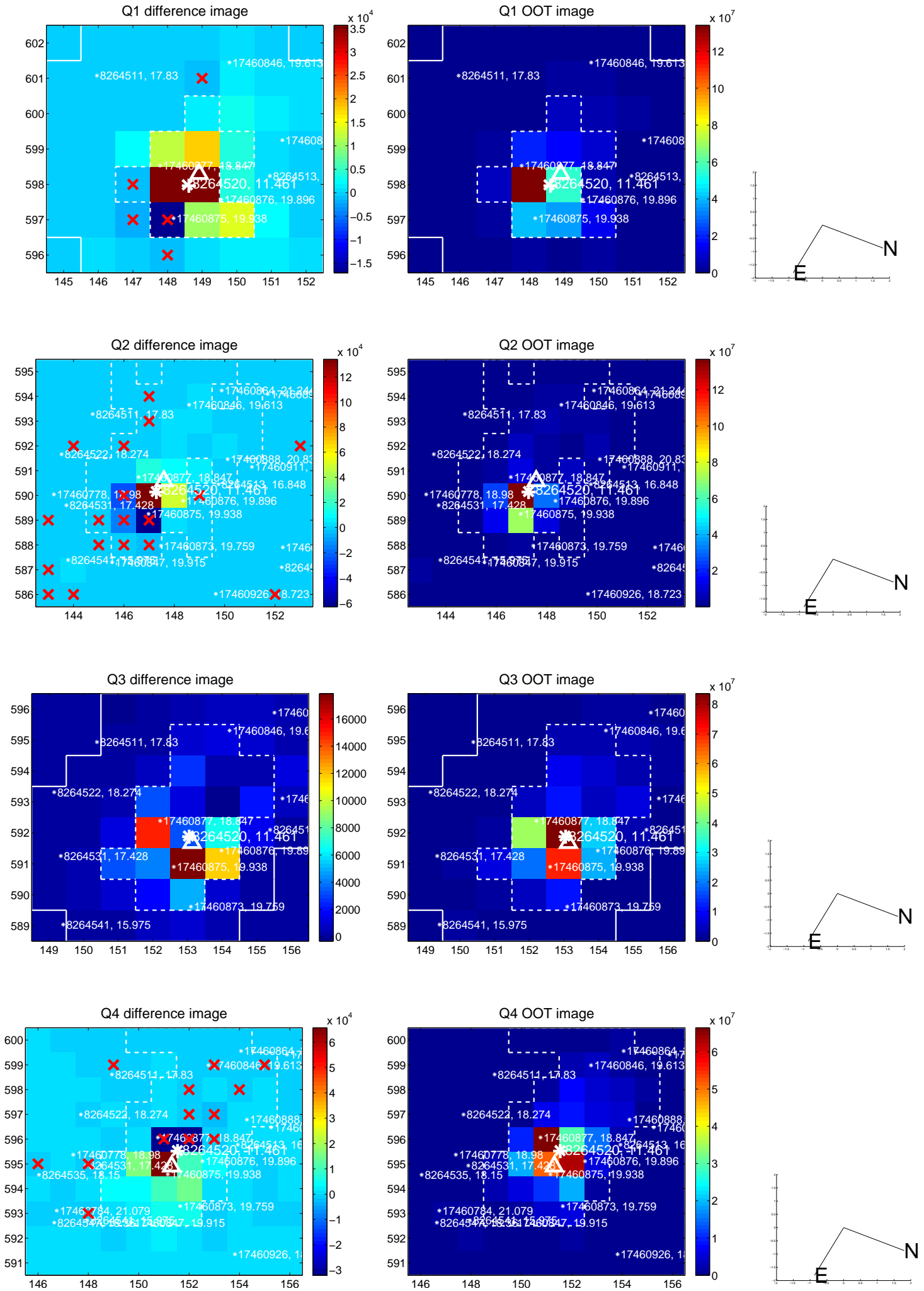
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.829 ± 0.601	3.04	-1.814 ± 0.614	0.236 ± 0.354
PRF-fit source offset from KIC position	1.751 ± 0.551	3.18	-1.728 ± 0.565	0.283 ± 0.399
photometric centroid source offset	—	—	—	—



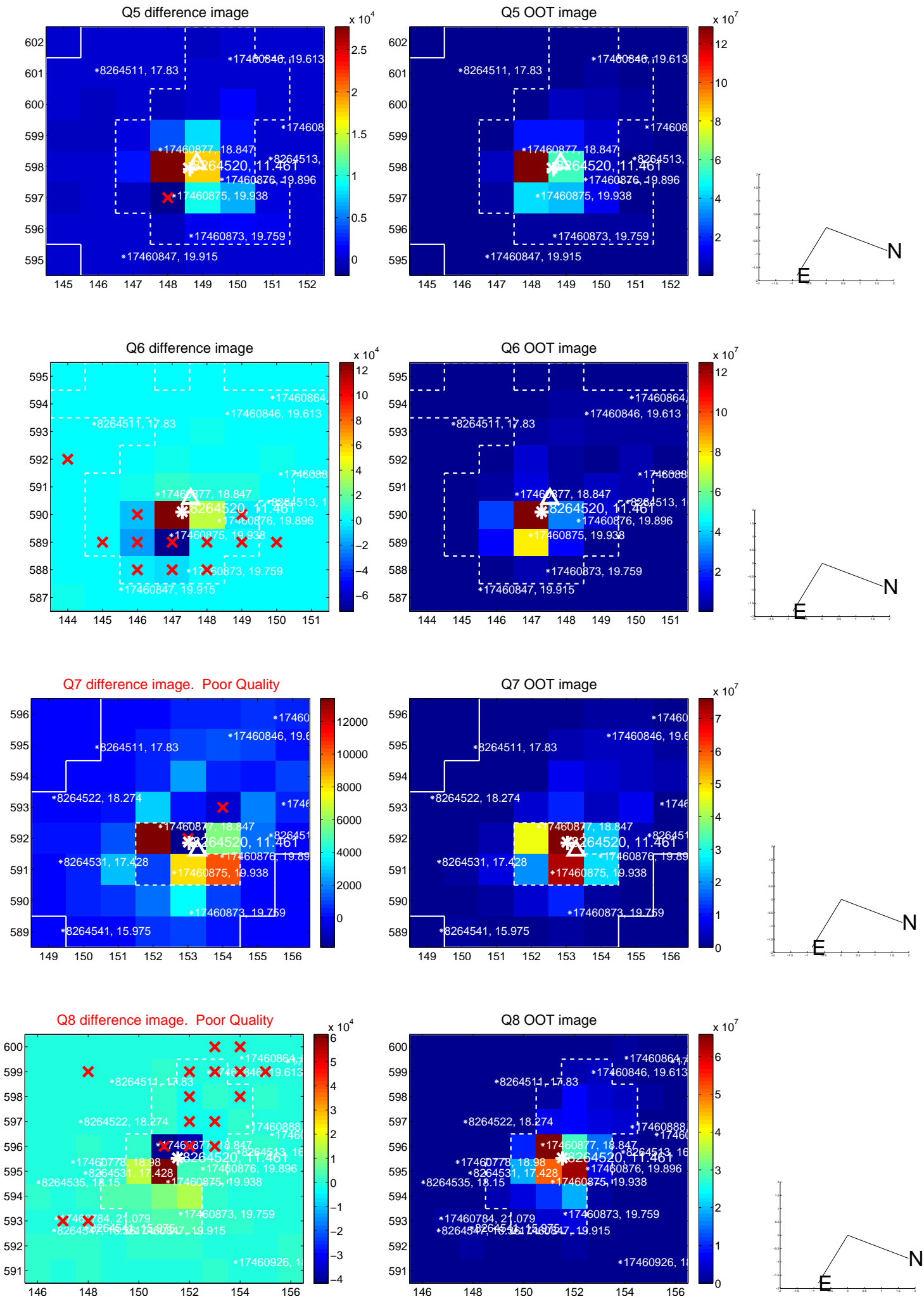
There are no photometric centroids

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.

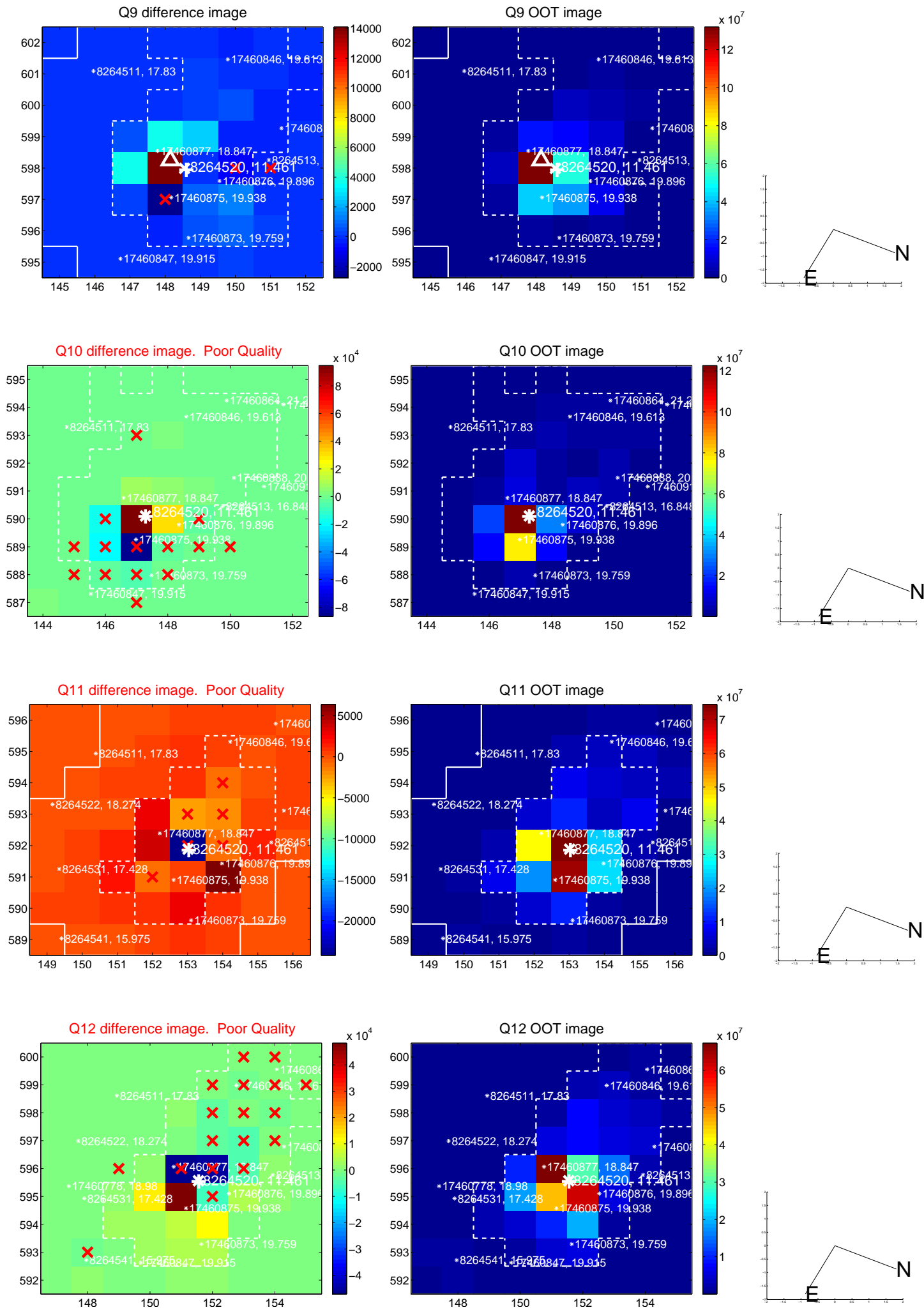
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



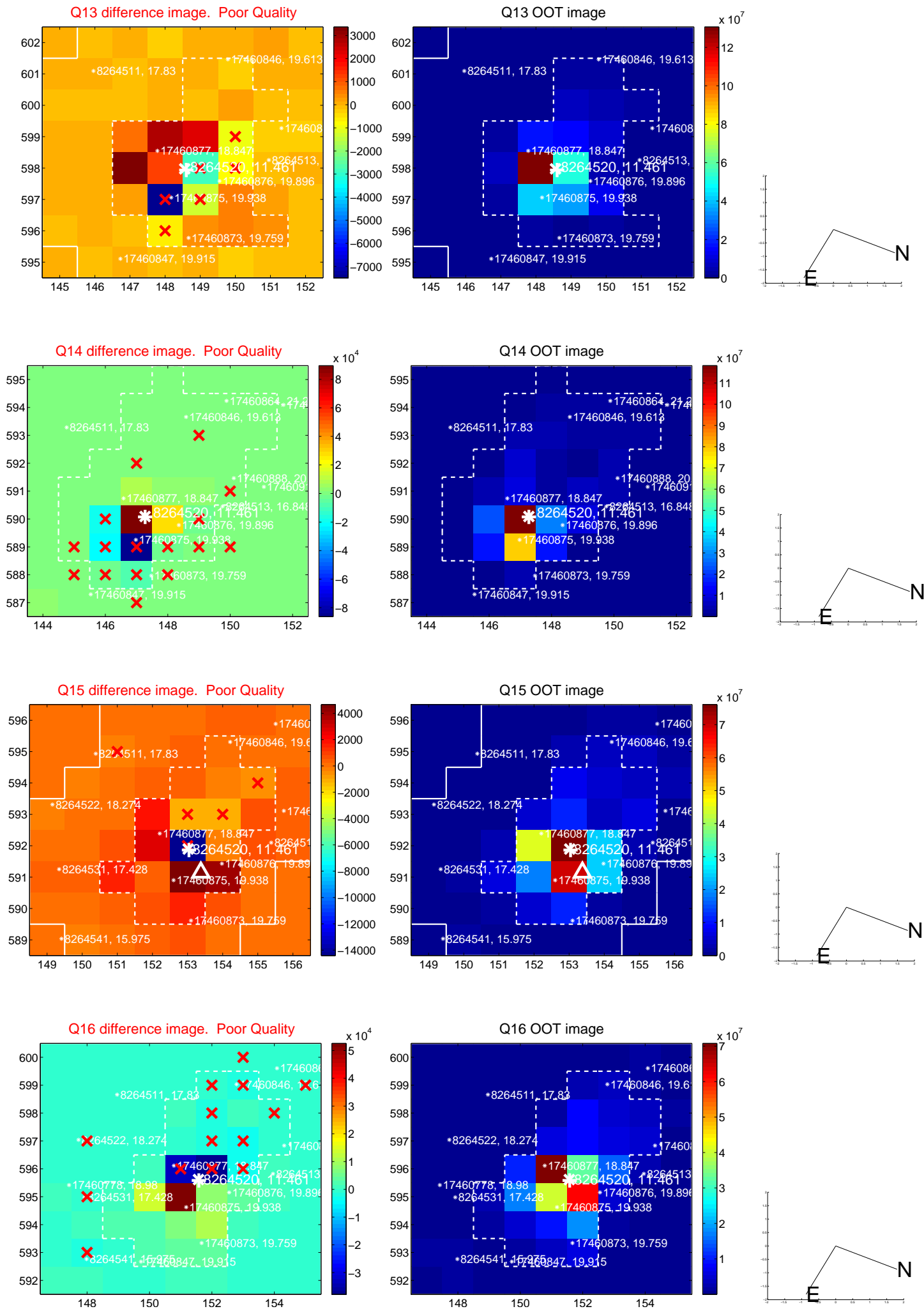
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



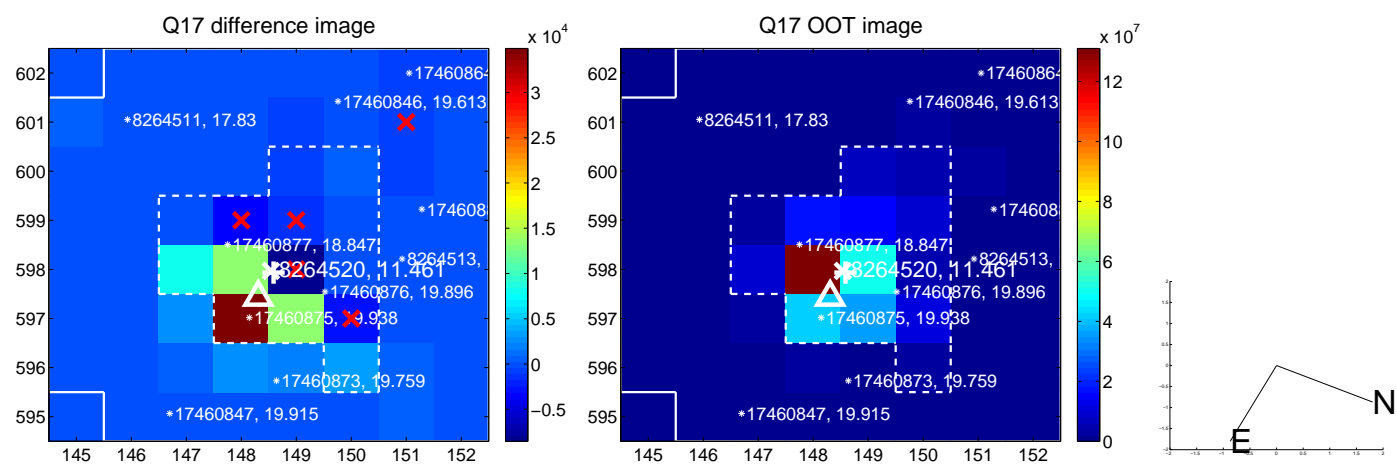
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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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

