

KIC 008264949

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|------|------|-----------------------------|-----------------|------------------------|------------------------|
| 008264949-01 | OBS | No | 0.588553 | 131.888239 | 207.1 | 3.773 | 11.1 | 10.2 | 3.27 | 8184 | 5.04 | 139925.53 |
| 008264949-03 | OBS | No | 76.146727 | 136.878381 | 4635.0 | 1.249 | 11.9 | 10.0 | 3.27 | 8184 | 23.09 | 213.83 |
| 008264949-04 | OBS | No | 42.853370 | 141.594977 | 3488.1 | 2.663 | 10.8 | 10.2 | 3.27 | 8184 | 34.24 | 460.22 |
| 008264949-05 | OBS | No | 135.188378 | 156.313059 | 4931.5 | 2.578 | 9.7 | 9.6 | 3.27 | 8184 | 24.43 | 99.47 |
| 008264949-06 | OBS | No | 34.868578 | 162.376626 | 374.5 | 1.500 | 9.7 | -1.0 | 3.27 | 8184 | 6.42 | 605.85 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|--|
| 008264949-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT |
| 008264949-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT |
| 008264949-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT |
| 008264949-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS |
| 008264949-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS |

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

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

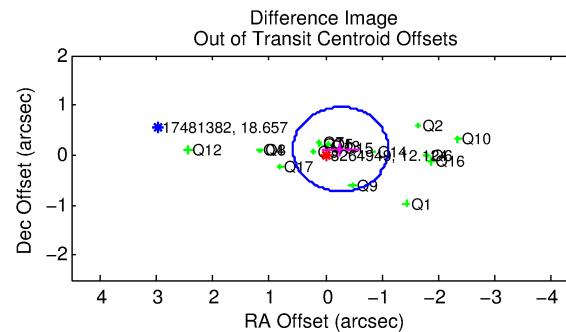
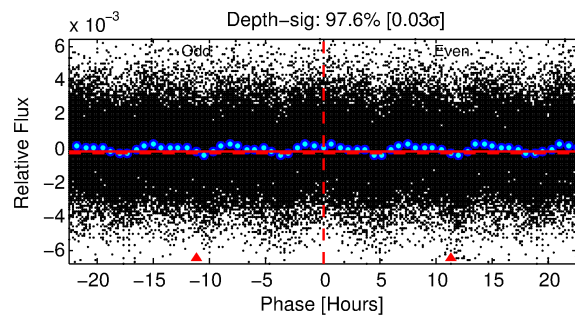
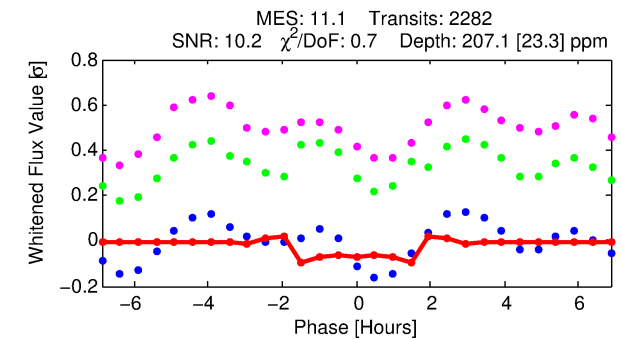
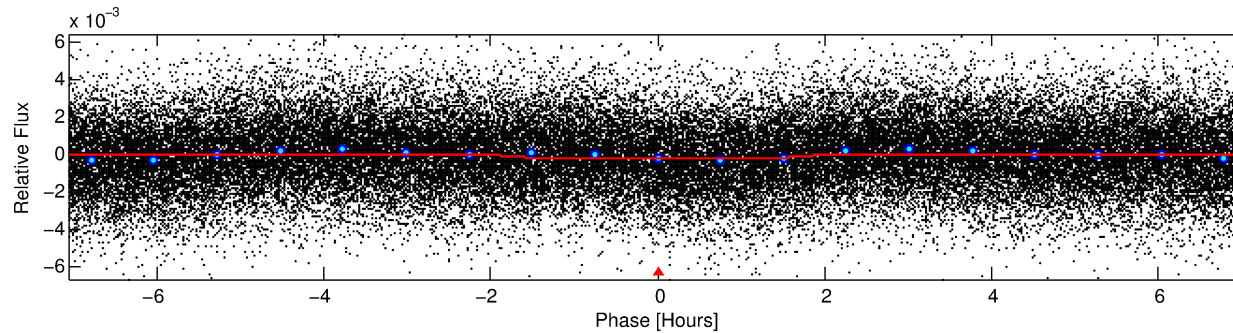
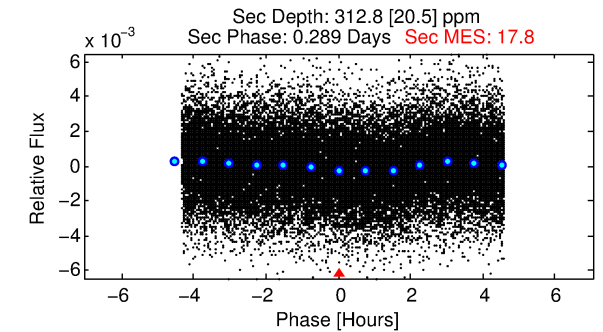
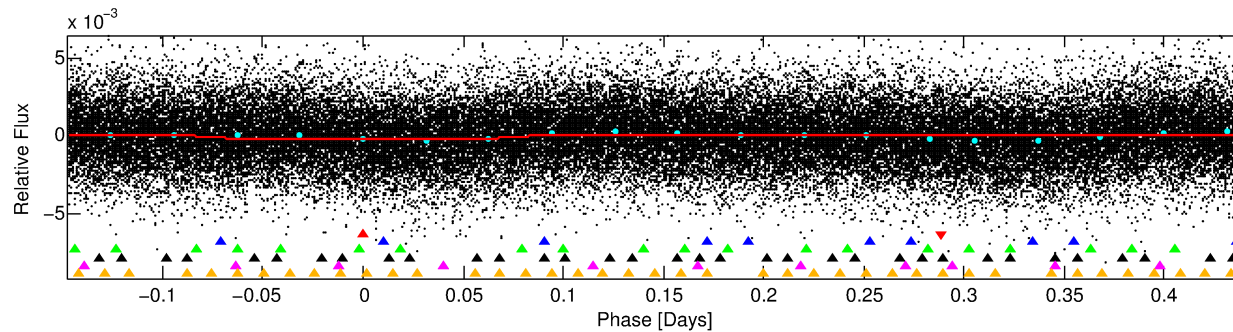
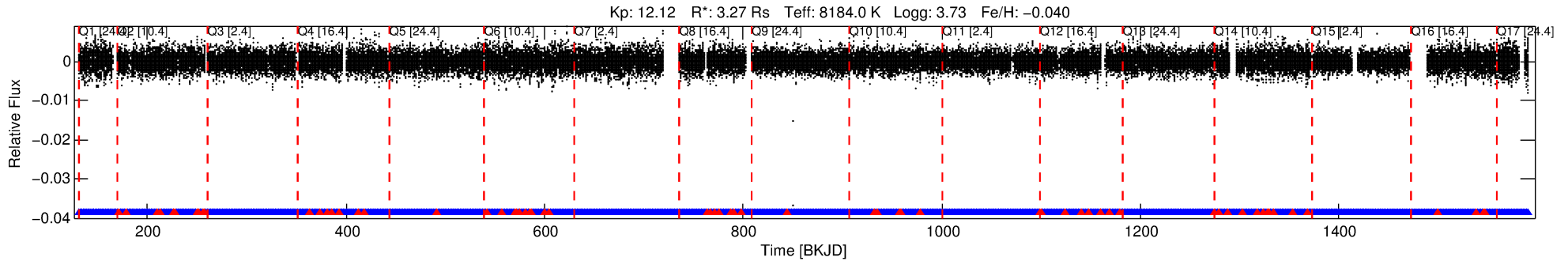
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264949-01

No Significant Match Found

DV One-Page Summary

KIC: 8264949 Candidate: 1 of 6 Period: 0.589 d



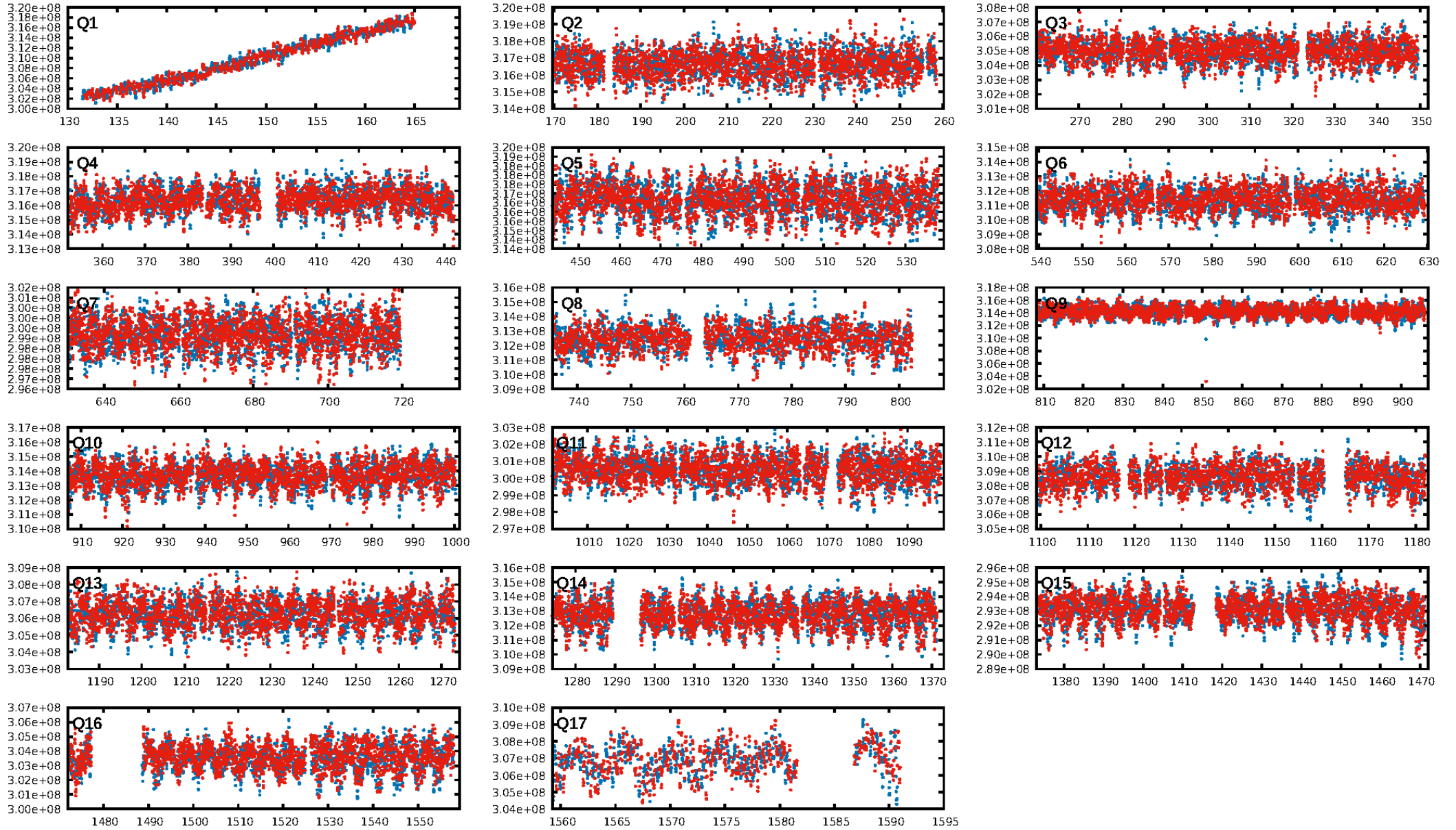
DV Fit Results:

Period = 0.58855 [0.00001] d
Epoch = 131.8882 [0.0015] BKJD
Rp/R* = 0.0141 [0.0044]
a/R* = 1.21 [0.70]
b = 0.70 [1.34]
Seff = 139925.53 [107652.92]
Teff = 4932 [949] K
Rp = 5.04 [2.90] Re
a = 0.0175 [0.0082] AU
Ag = 2.08 [2.03] [0.53 σ]
Teffp = 9153 [1494] K [2.38 σ]

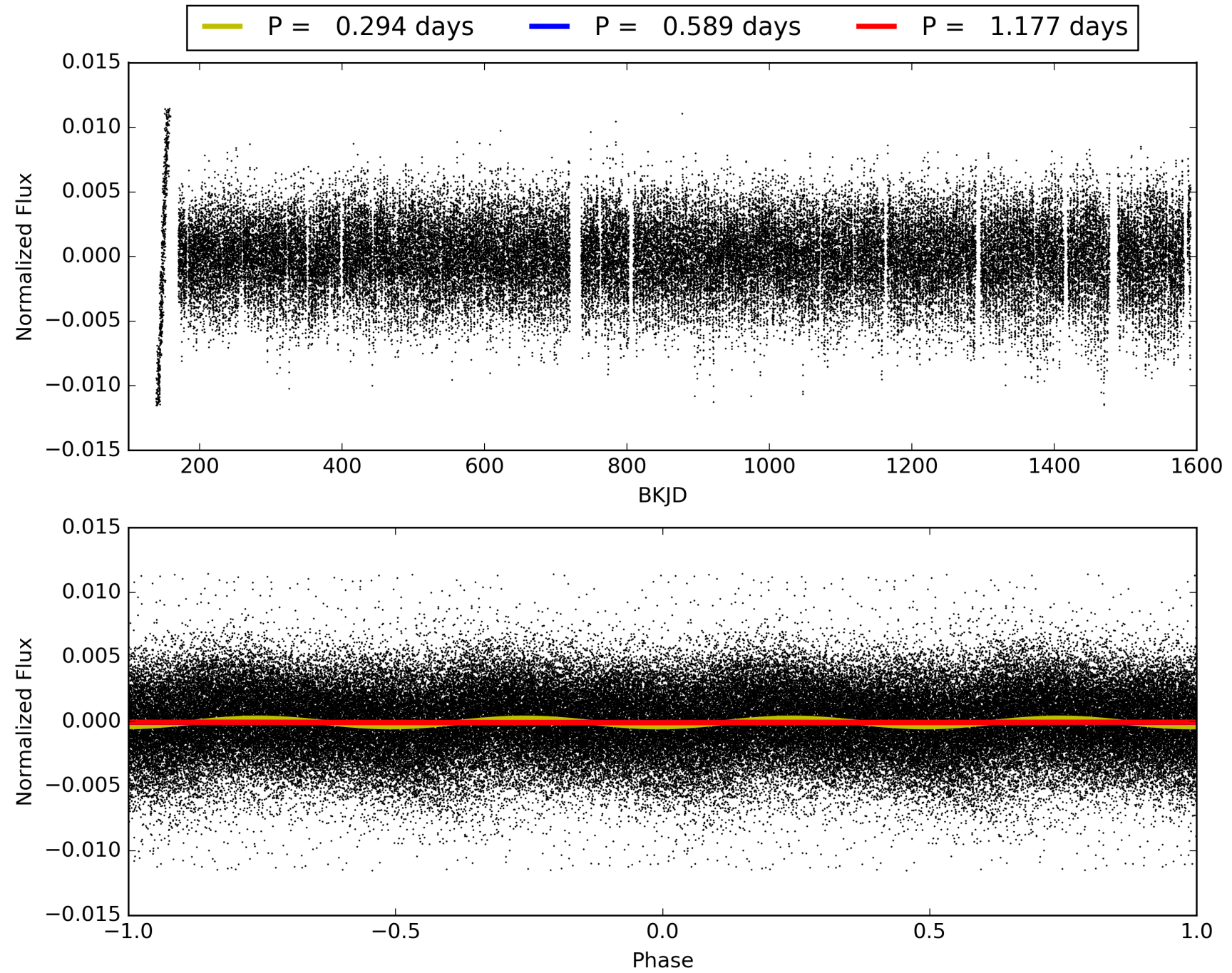
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [202.62 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.97 [2112/2179]
GhostDiagnostic-chr: 0.9498
Centroid-sig: 0.1%
Centroid-so: 0.070 arcsec [0.91 σ]
OotOffset-rm: 0.289 arcsec [1.03 σ]
KicOffset-rm: 0.317 arcsec [1.17 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.88 [15/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 008264949-01, PDC Light Curves

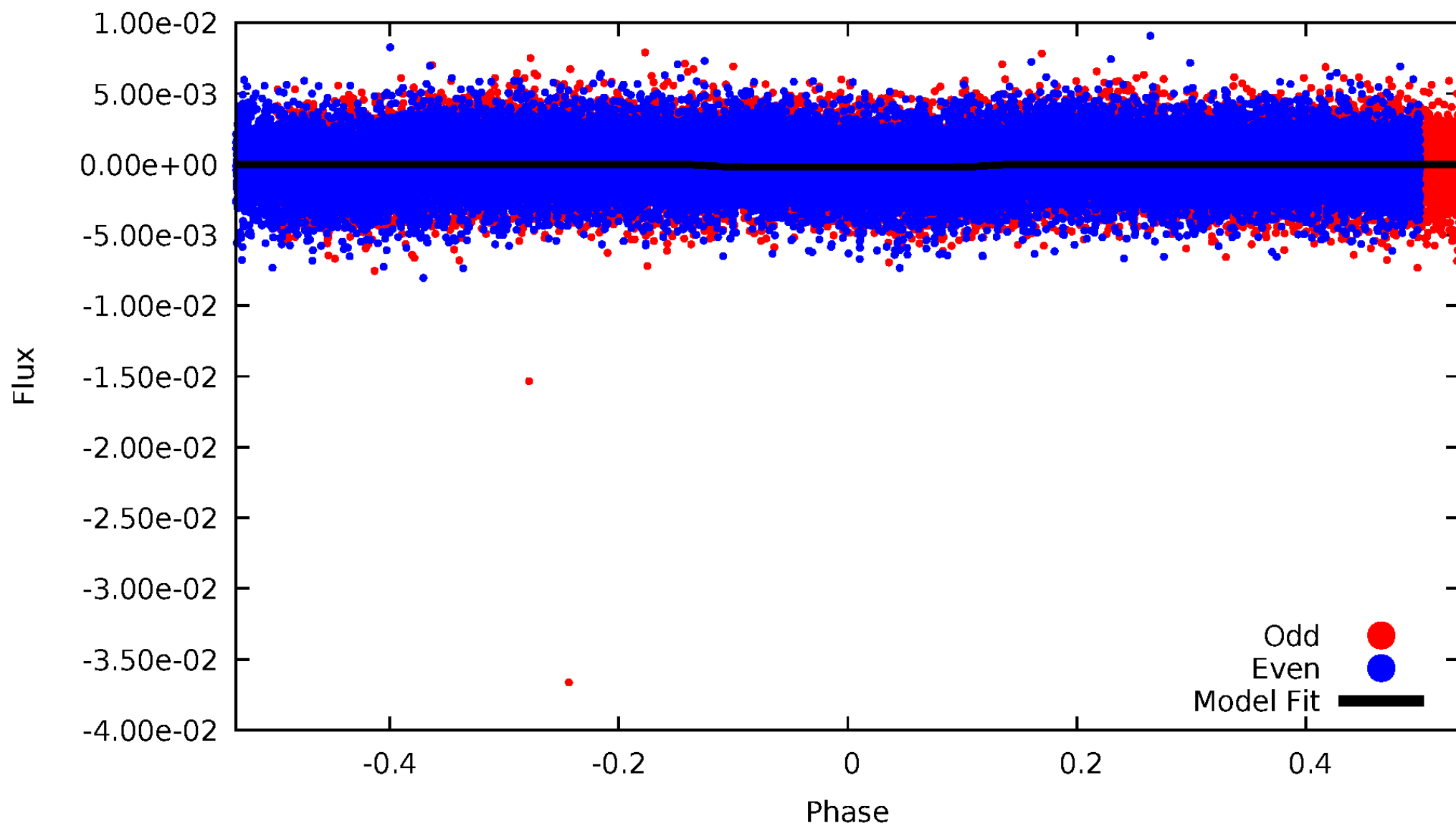


TCE 008264949-01



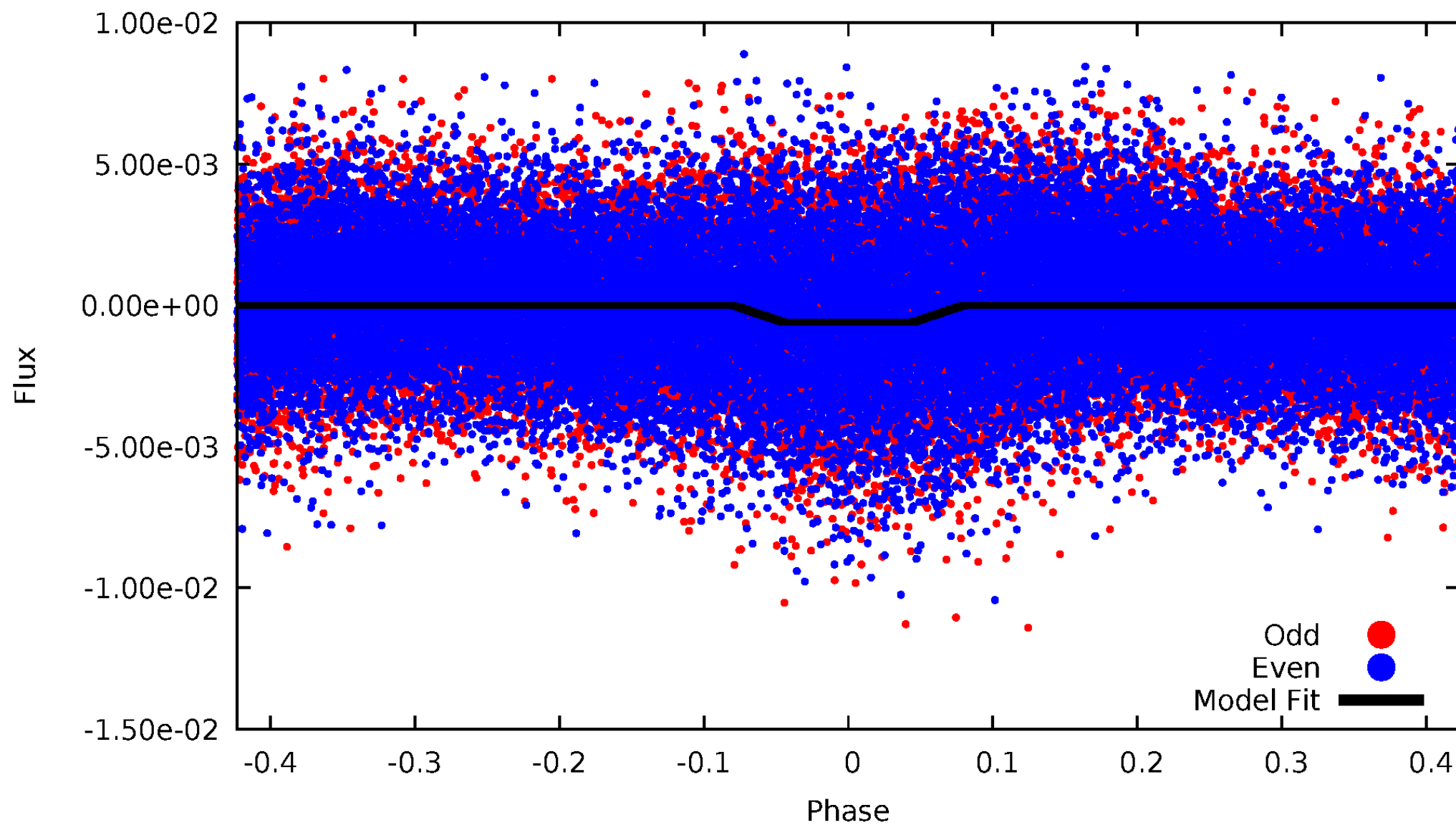
DV Odd/Even

TCE 008264949-01

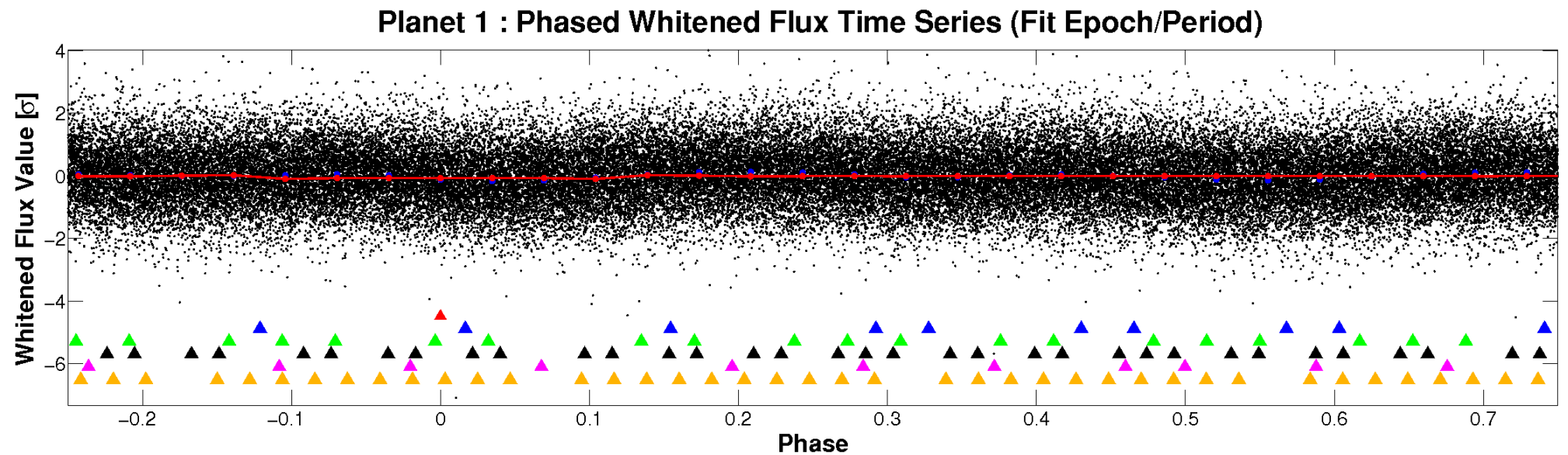
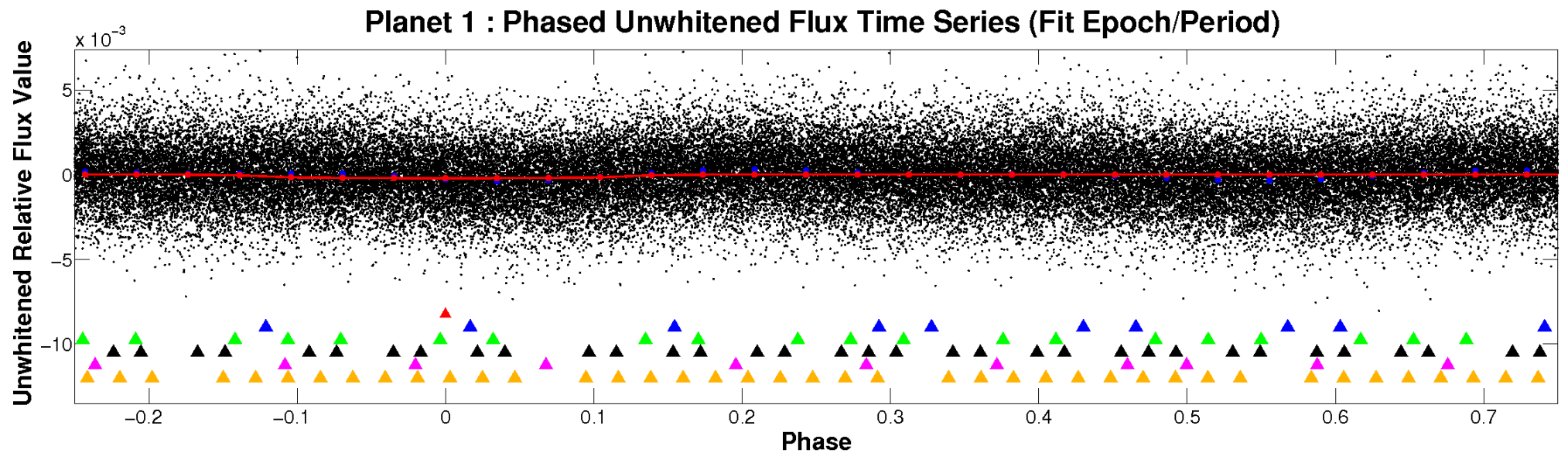


ALT Odd/Even

TCE 008264949-01

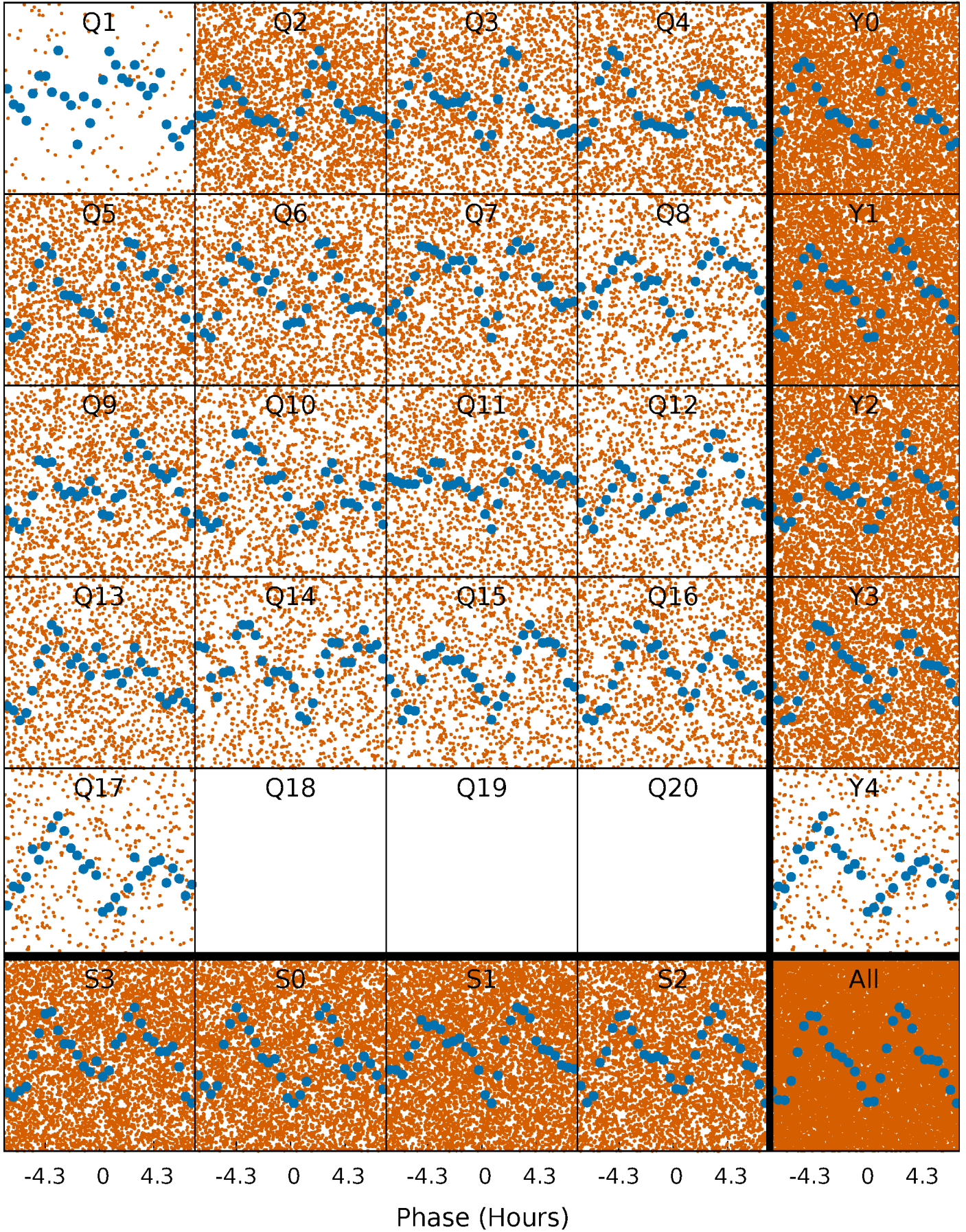


Non-Whitened Vs. Whitened Light Curve



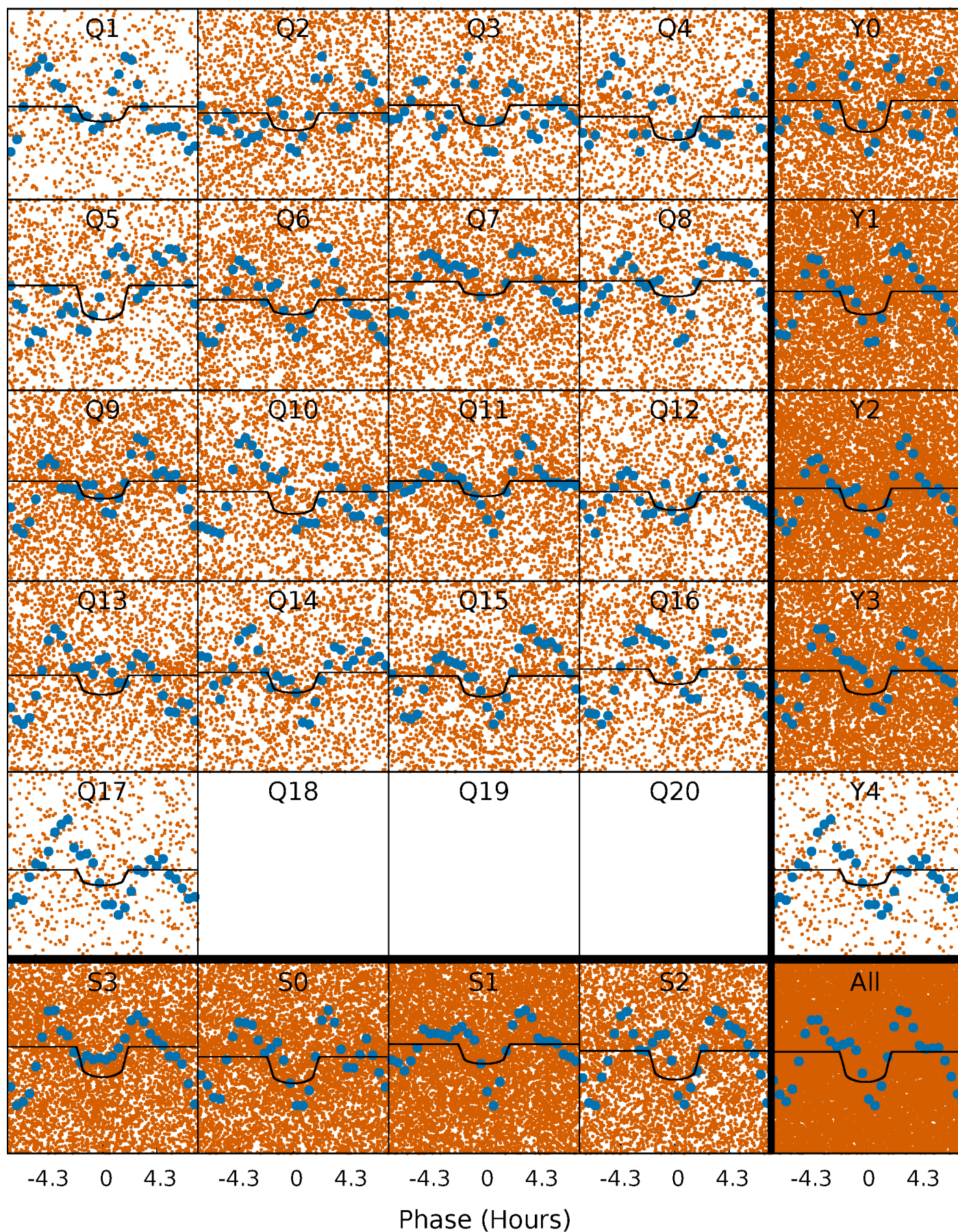
PDC Quarter-Phased Transit Curves

TCE 008264949-01 P= 0.588553 Days $T_0=131.888239$ (BKJD)



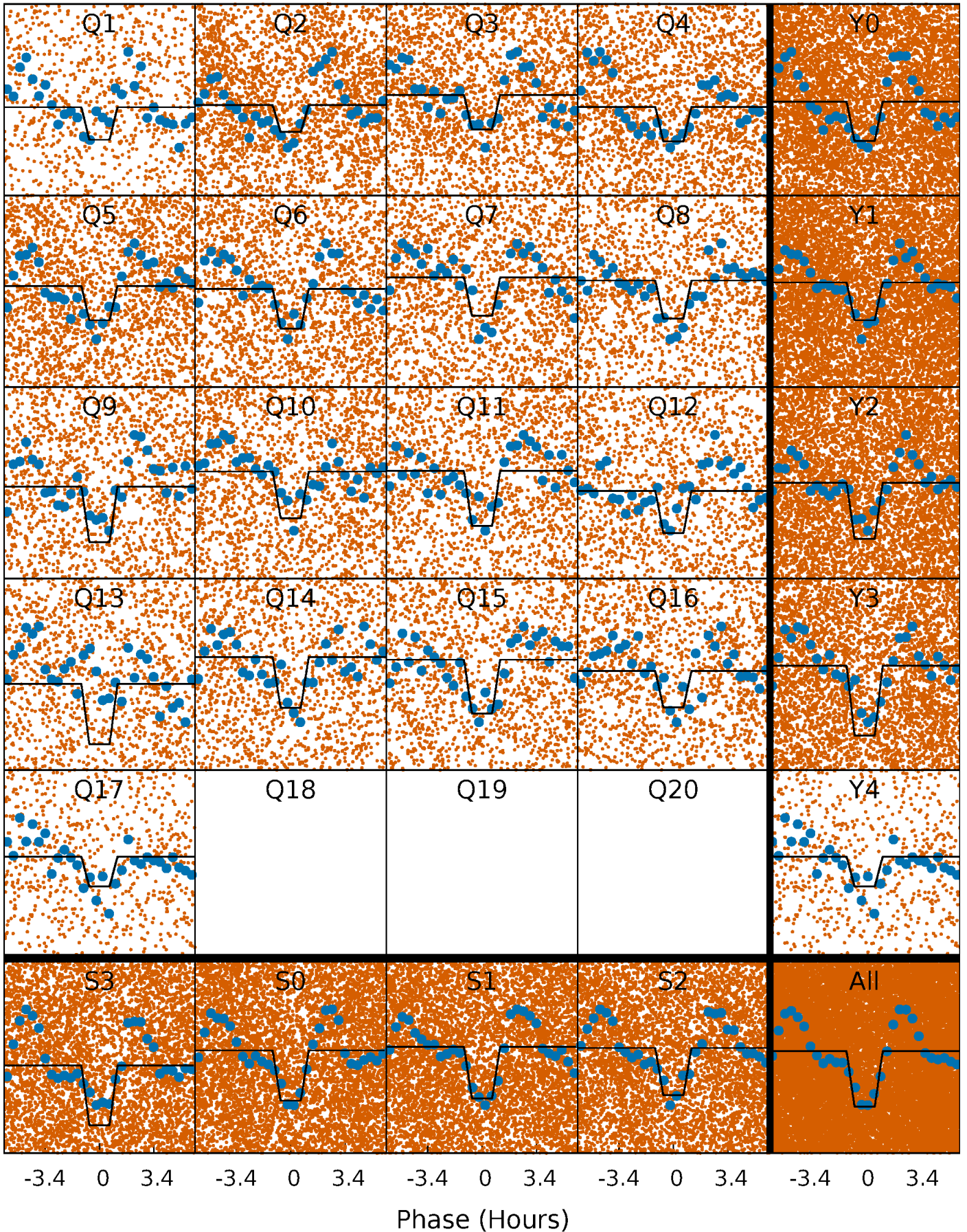
DV Quarter-Phased Transit Curves

TCE 008264949-01 P= 0.588553 Days $T_0=131.888239$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

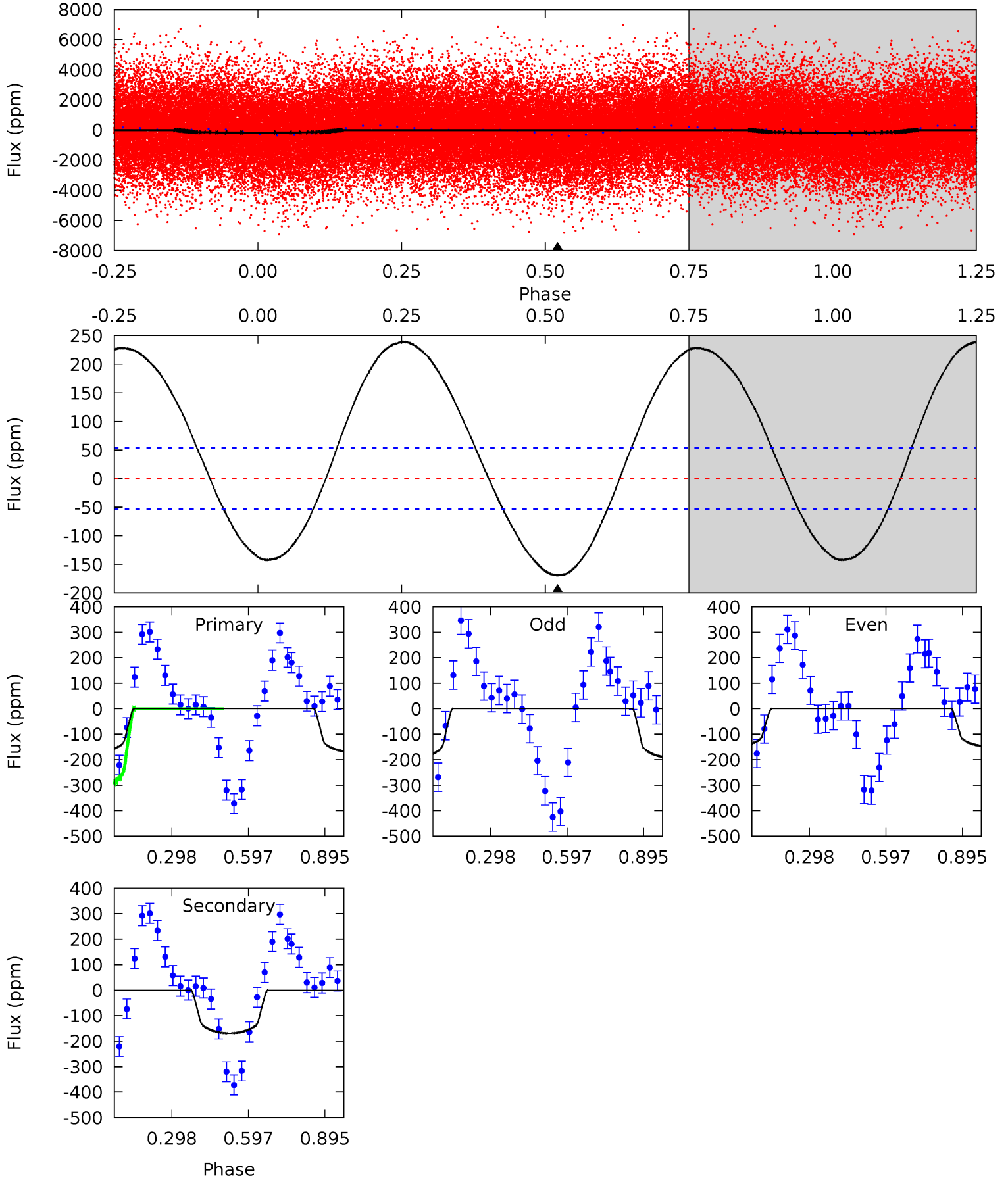
TCE 008264949-01 P= 0.588570 Days $T_0=131.888021$ (BKJD)



DV Model-Shift Uniqueness Test

008264949-01, P = 0.588553 Days, E = 131.299686 Days

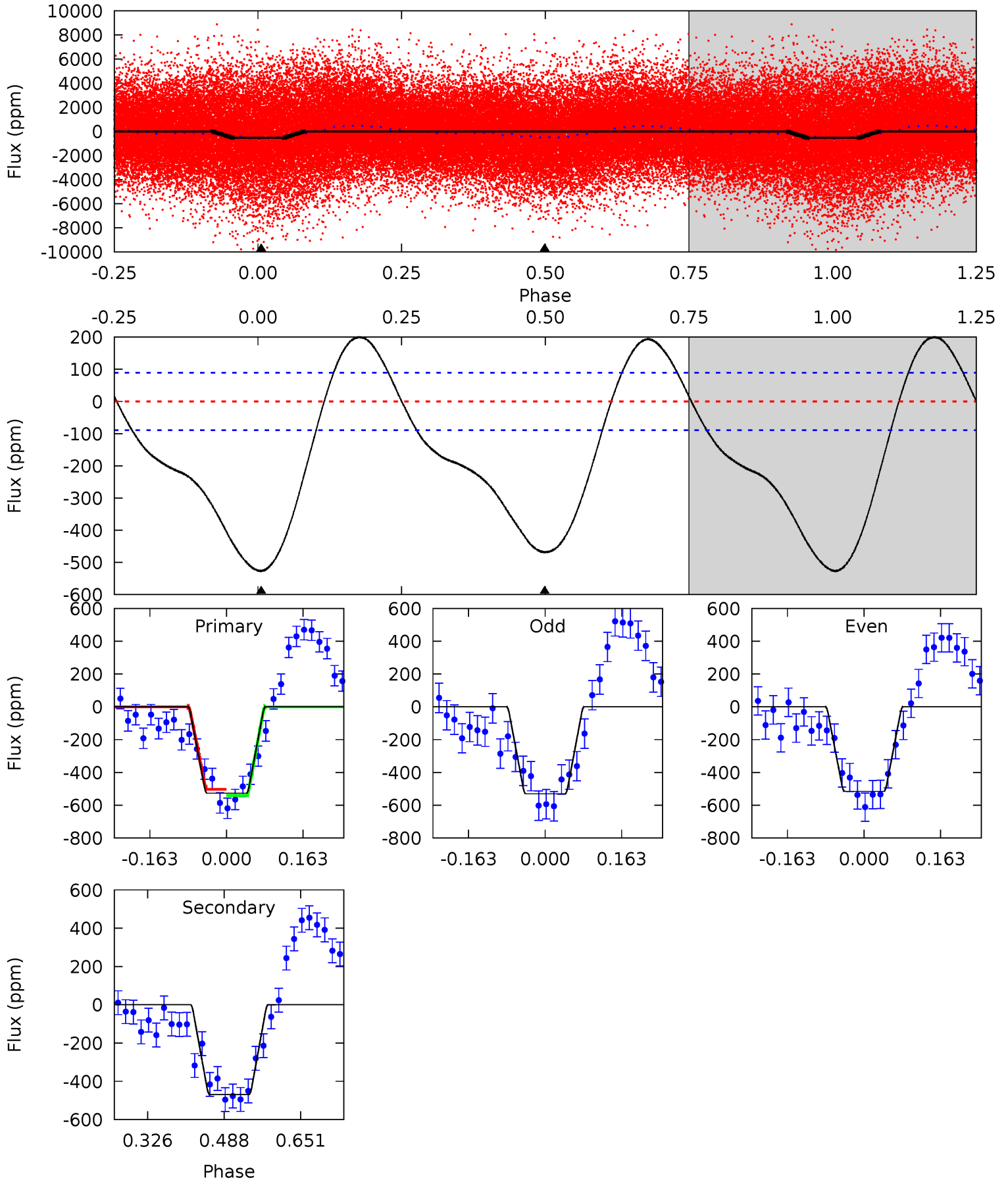
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|-----|-----|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 13.7 | 13.7 | 0 | 0 | 4.33 | 1.04 | 9.70 | 13.7 | 13.7 | 13.7 | 13.7 | 1.77 | 1.05 | 0.59 | 12.1 |



Alt Model-Shift Uniqueness Test

008264949-01, P = 0.588570 Days, E = 131.299451 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|-----|-----|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 26.3 | 23.4 | 0 | 0 | 4.46 | 1.40 | 6.96 | 26.3 | 26.3 | 23.4 | 23.4 | 0.37 | 1.18 | 0.28 | 0.94 |



Stellar Parameters For KIC 008264949

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | R (R_{\odot}) | M (M_{\odot}) | p_{\star} ($\text{g}\cdot\text{cm}^{-3}$) |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 8184^{+226}_{-368} | $3.725^{+0.440}_{-0.138}$ | $-0.040^{+0.250}_{-0.400}$ | $3.268^{+0.848}_{-1.576}$ | $2.068^{+0.347}_{-0.521}$ | $0.083^{+0.329}_{-0.034}$ |
| | +3%/-4% | +12%/-4% | +625%/-1000% | +26%/-48% | +17%/-25% | +395%/-41% |
| Source | KIC0 | 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 008264949-01 / KOI

| Detrend | Depth (ppm) | R_p (R_{\oplus}) | T_{max} (K) | T_{obs} (K) | A_{obs} |
|---------|---------------|------------------------|----------------------|------------------------|---------------------------|
| DV | -169 ± 12 | $4.70^{+1.82}_{-1.86}$ | 6724^{+526}_{-850} | 7154^{+2226}_{-1433} | $1.301^{+2.085}_{-0.634}$ |
| Alt. | -469 ± 20 | $8.16^{+2.51}_{-2.36}$ | 6727^{+517}_{-818} | 6924^{+1130}_{-912} | $1.216^{+1.035}_{-0.500}$ |

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 $A_{obs} \gg 1.0$

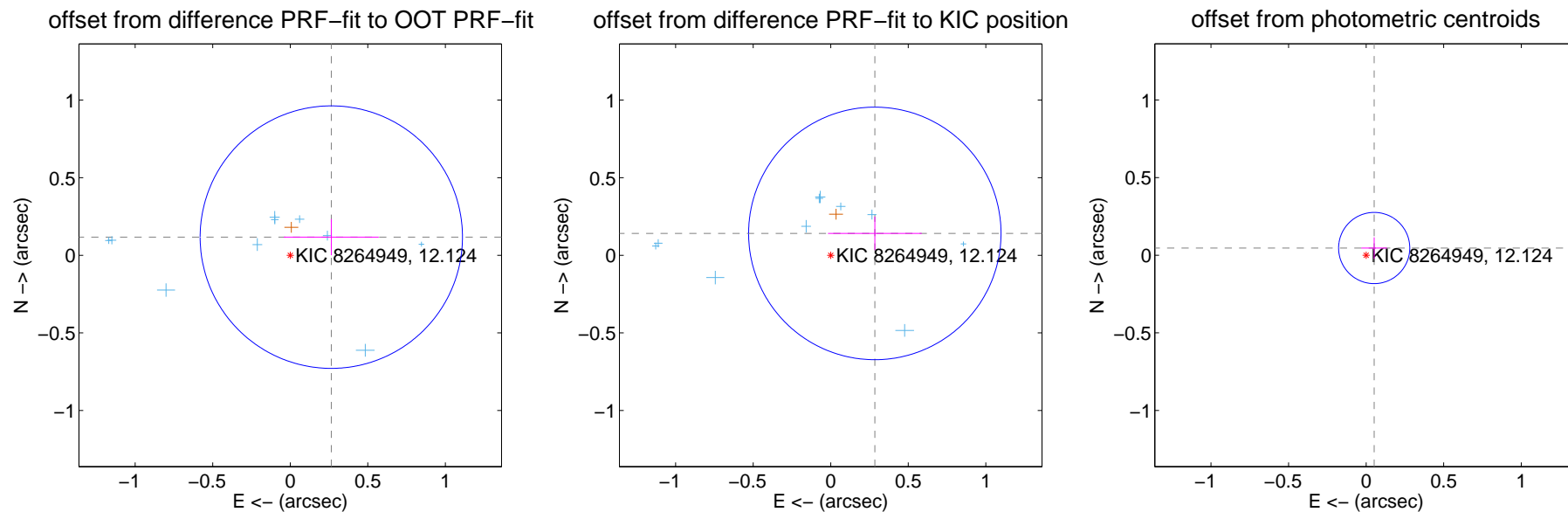
DV Centroid Data

Supplemental centroid analysis for 008264949-01. Kepler magnitude: 12.12. Transit SNR 10.25

There are 15 quarters with good PRF difference image offsets

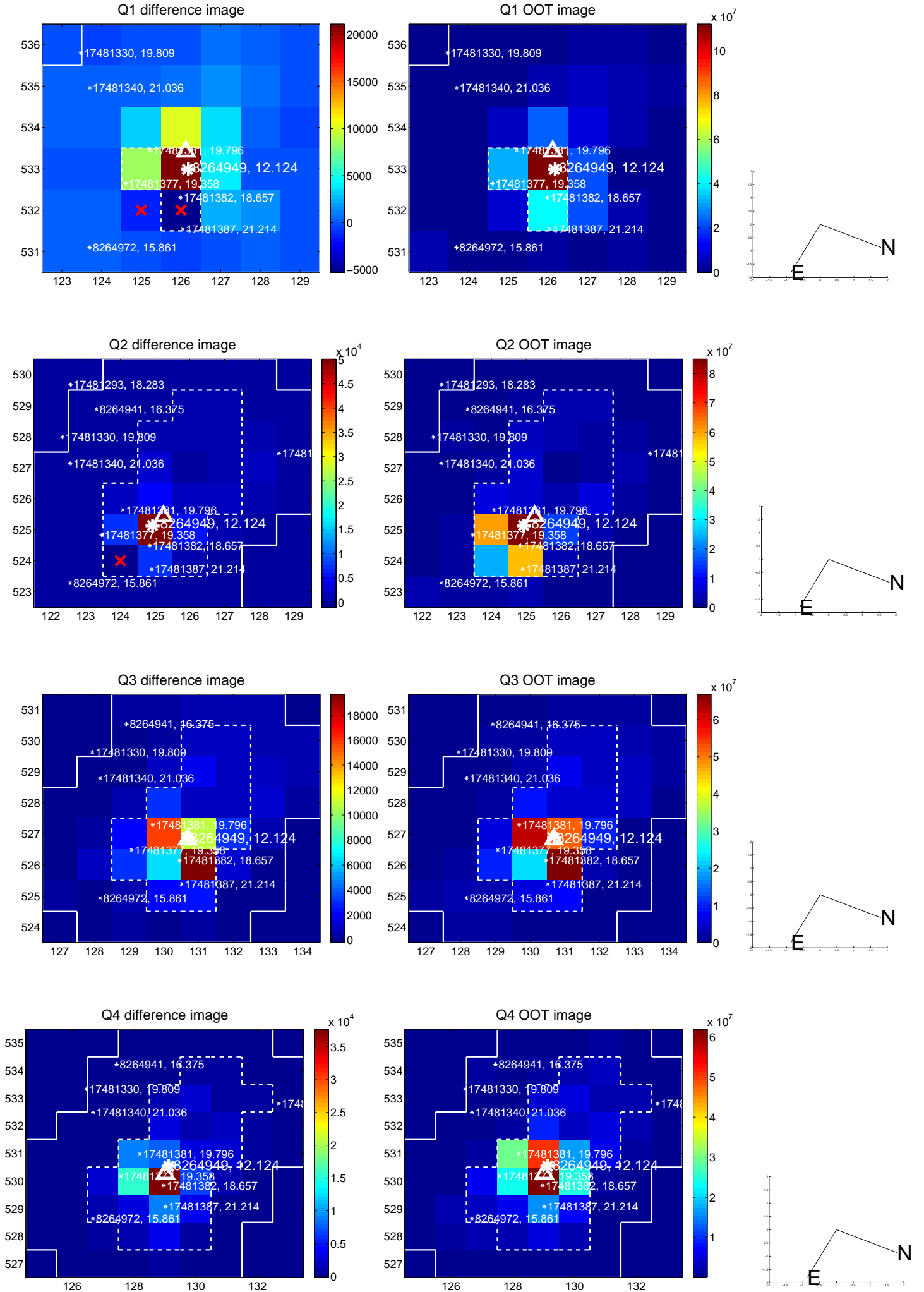
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

| | Distance in arcsec | Distance / σ | Δ RA | Δ Dec |
|---|--------------------|---------------------|--------------------|-------------------|
| PRF-fit source offset from OOT | 0.289 ± 0.282 | 1.03 | -0.265 ± 0.306 | 0.117 ± 0.116 |
| PRF-fit source offset from KIC position | 0.317 ± 0.271 | 1.17 | -0.284 ± 0.302 | 0.141 ± 0.108 |
| photometric centroid source offset | 0.07 ± 0.08 | 0.91 | -0.05 ± 0.08 | 0.05 ± 0.07 |

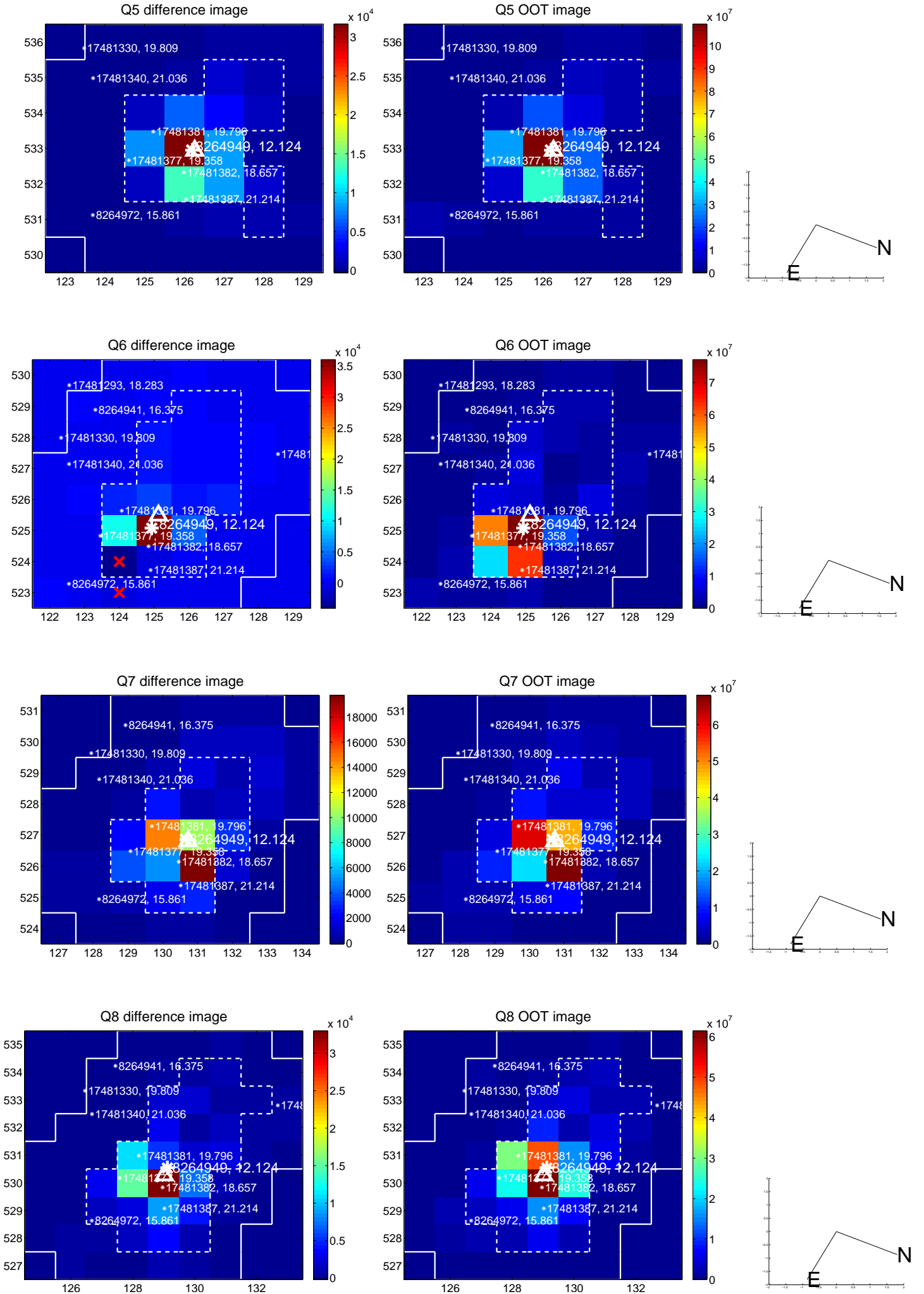


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

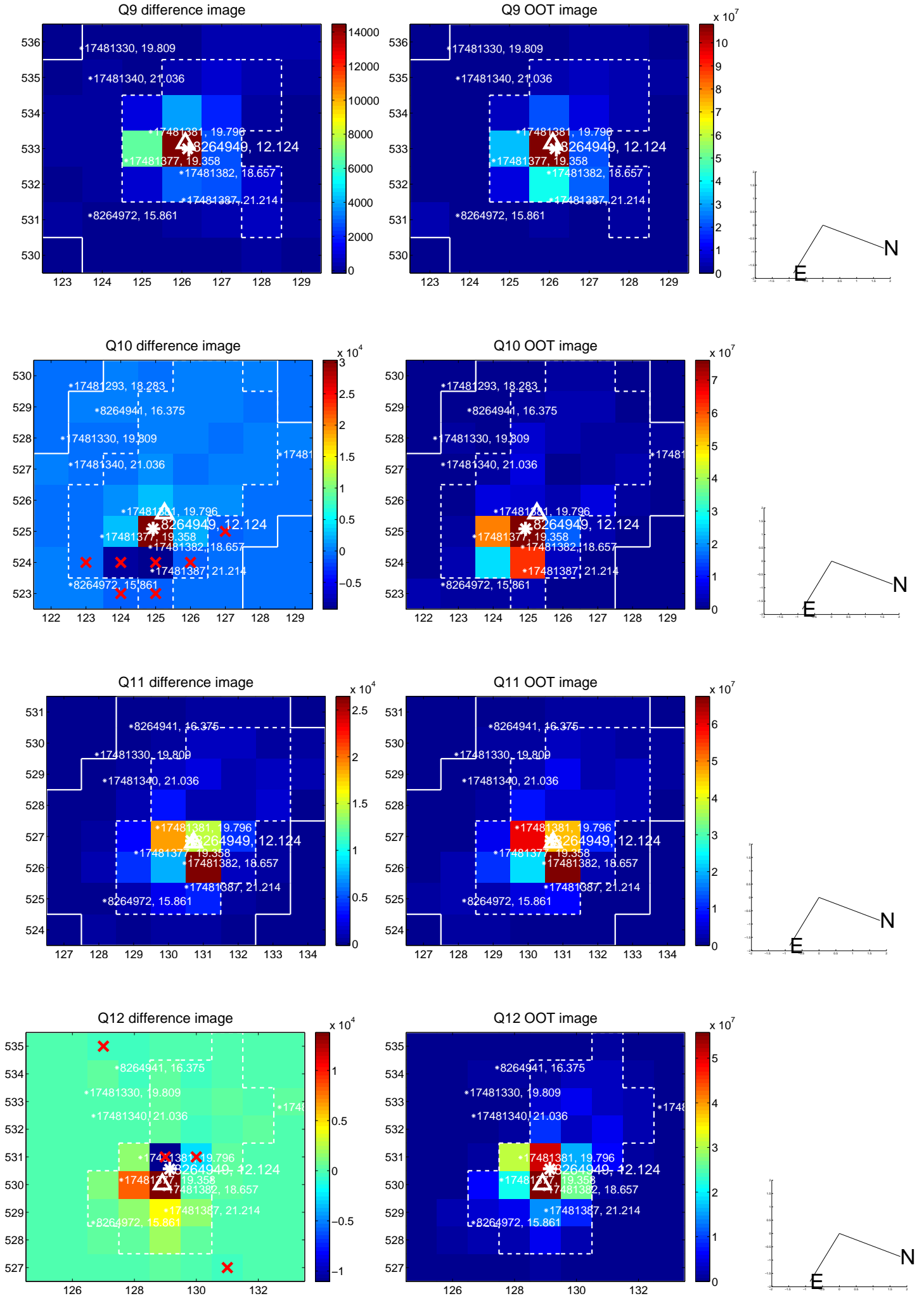
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



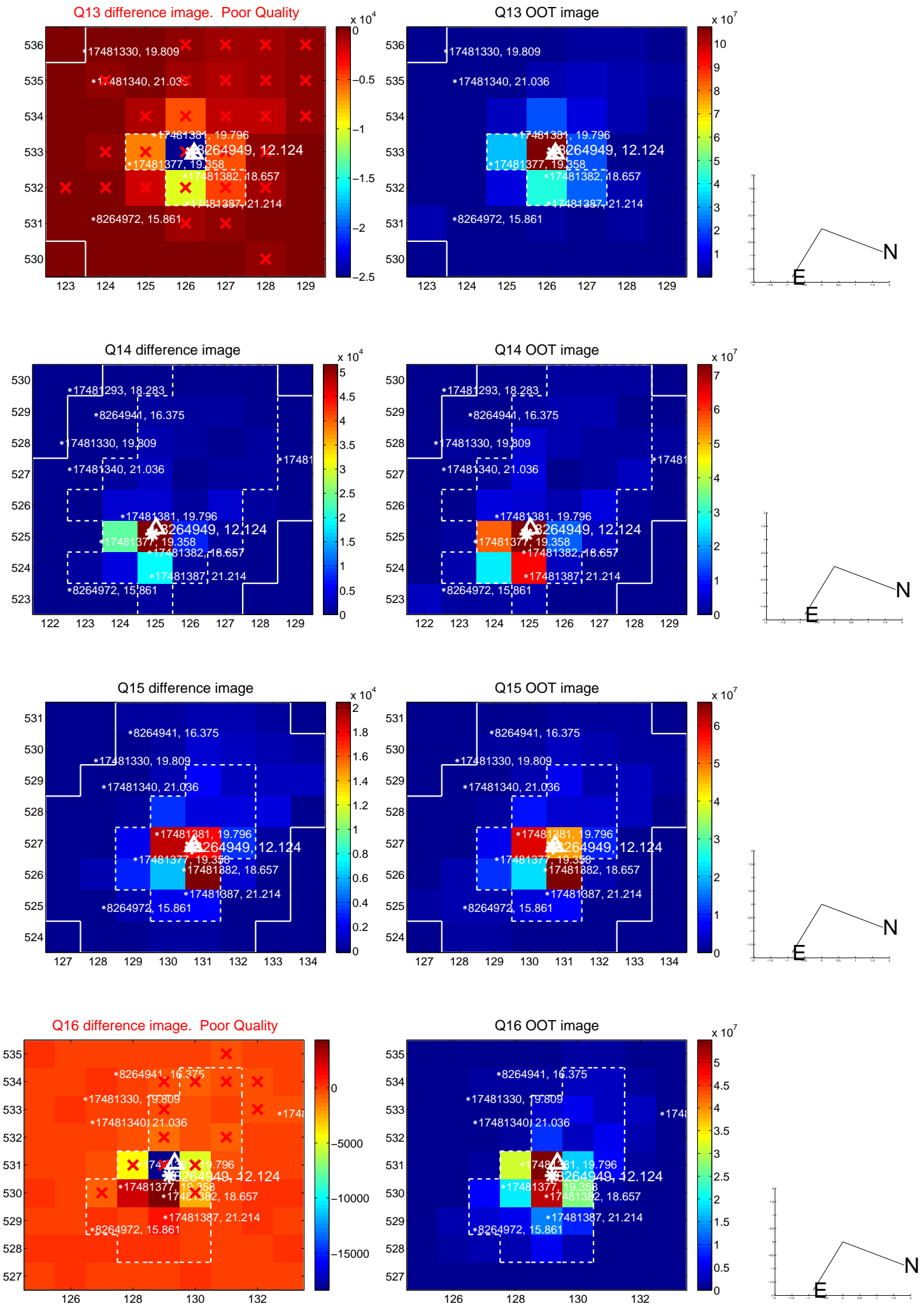
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



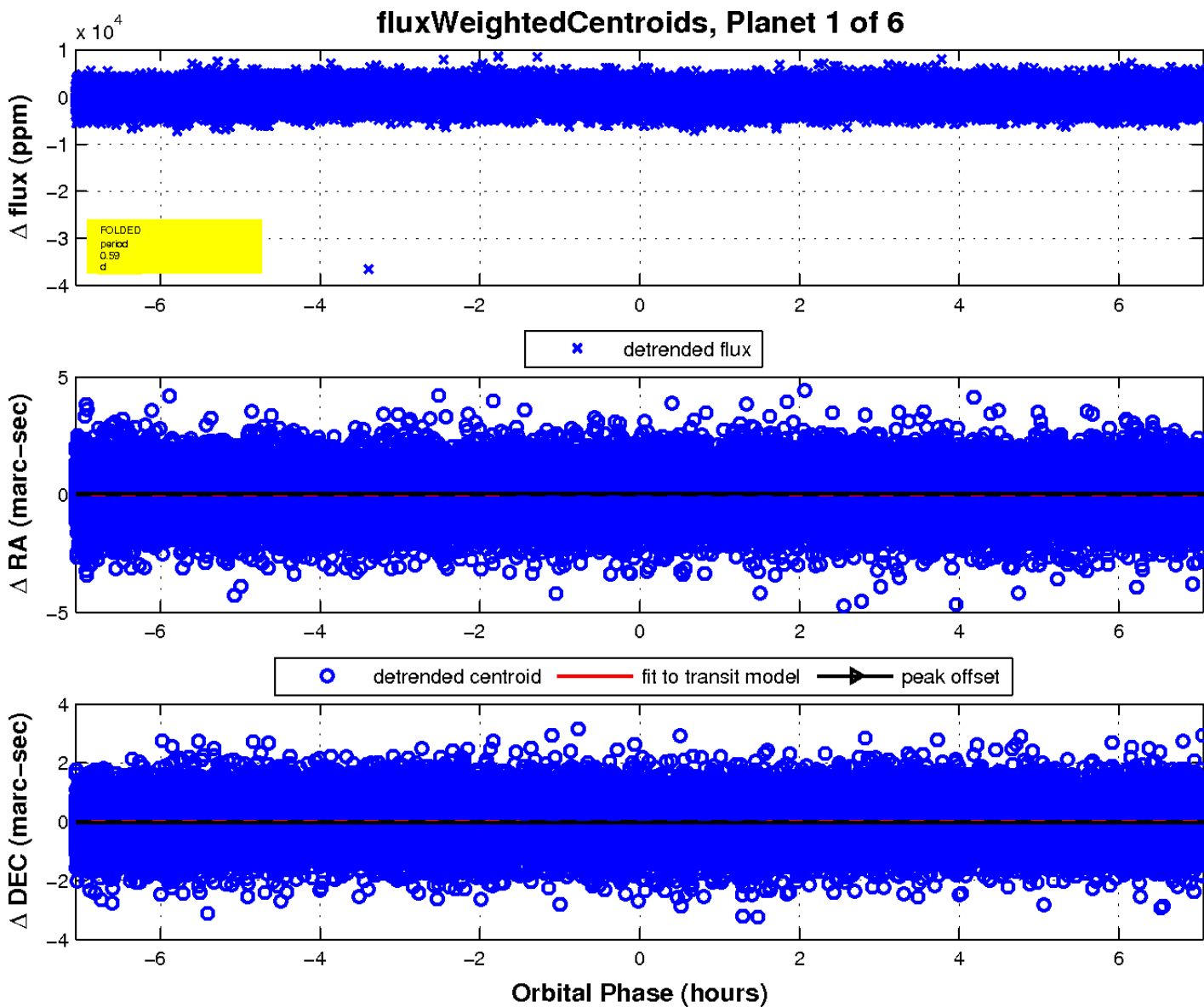
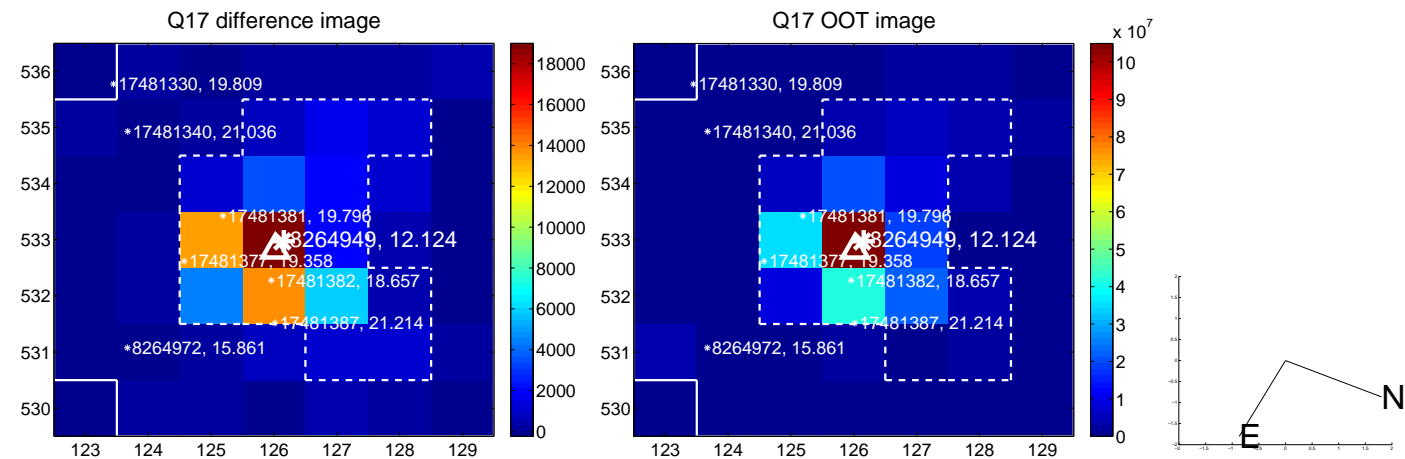
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

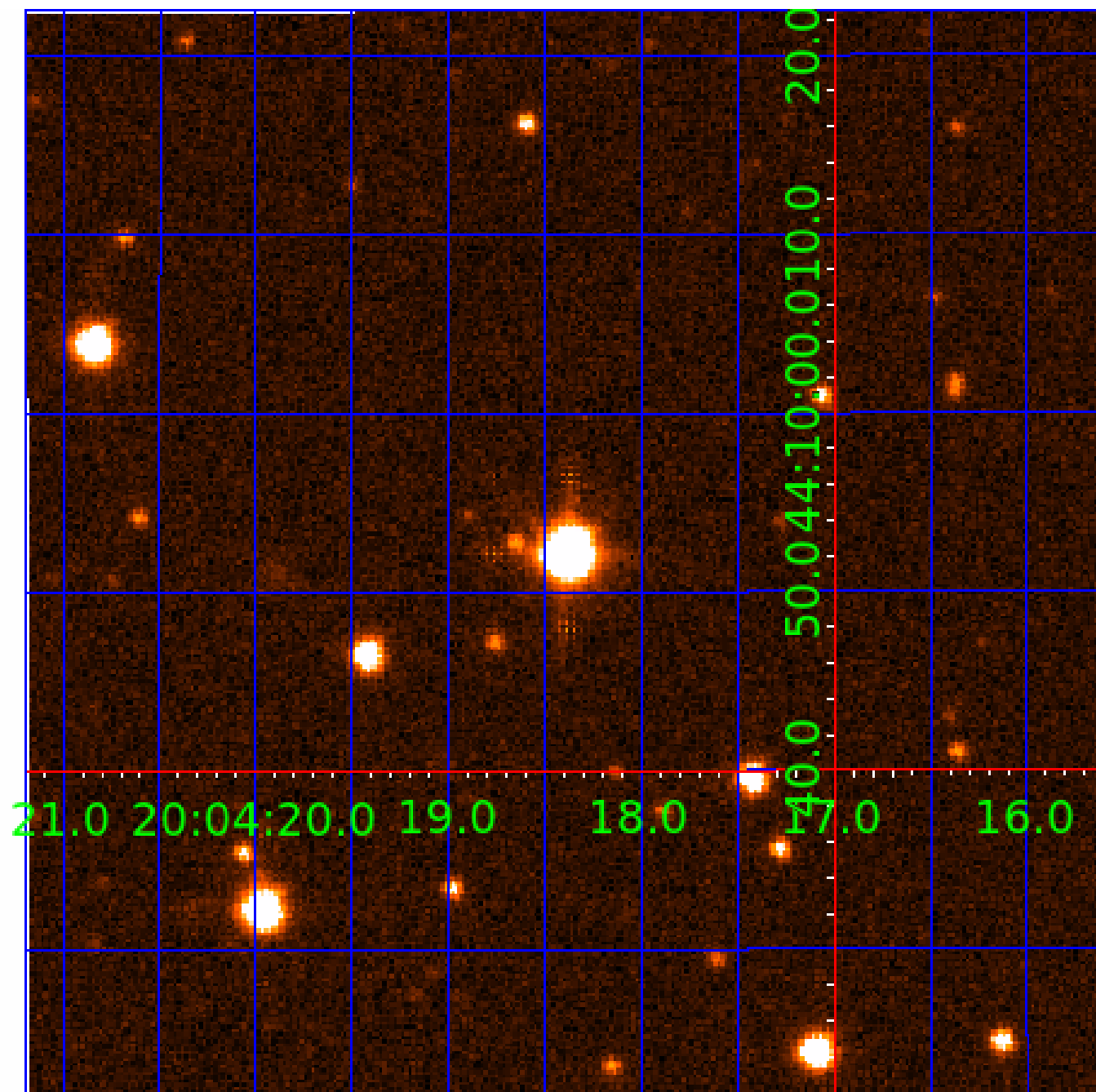


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264949

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|------|------|-----------------------------|-----------------|------------------------|------------------------|
| 008264949-01 | OBS | No | 0.588553 | 131.888239 | 207.1 | 3.773 | 11.1 | 10.2 | 3.27 | 8184 | 5.04 | 139925.53 |
| 008264949-03 | OBS | No | 76.146727 | 136.878381 | 4635.0 | 1.249 | 11.9 | 10.0 | 3.27 | 8184 | 23.09 | 213.83 |
| 008264949-04 | OBS | No | 42.853370 | 141.594977 | 3488.1 | 2.663 | 10.8 | 10.2 | 3.27 | 8184 | 34.24 | 460.22 |
| 008264949-05 | OBS | No | 135.188378 | 156.313059 | 4931.5 | 2.578 | 9.7 | 9.6 | 3.27 | 8184 | 24.43 | 99.47 |
| 008264949-06 | OBS | No | 34.868578 | 162.376626 | 374.5 | 1.500 | 9.7 | -1.0 | 3.27 | 8184 | 6.42 | 605.85 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|--|
| 008264949-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT |
| 008264949-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT |
| 008264949-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT |
| 008264949-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS |
| 008264949-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS |

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

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

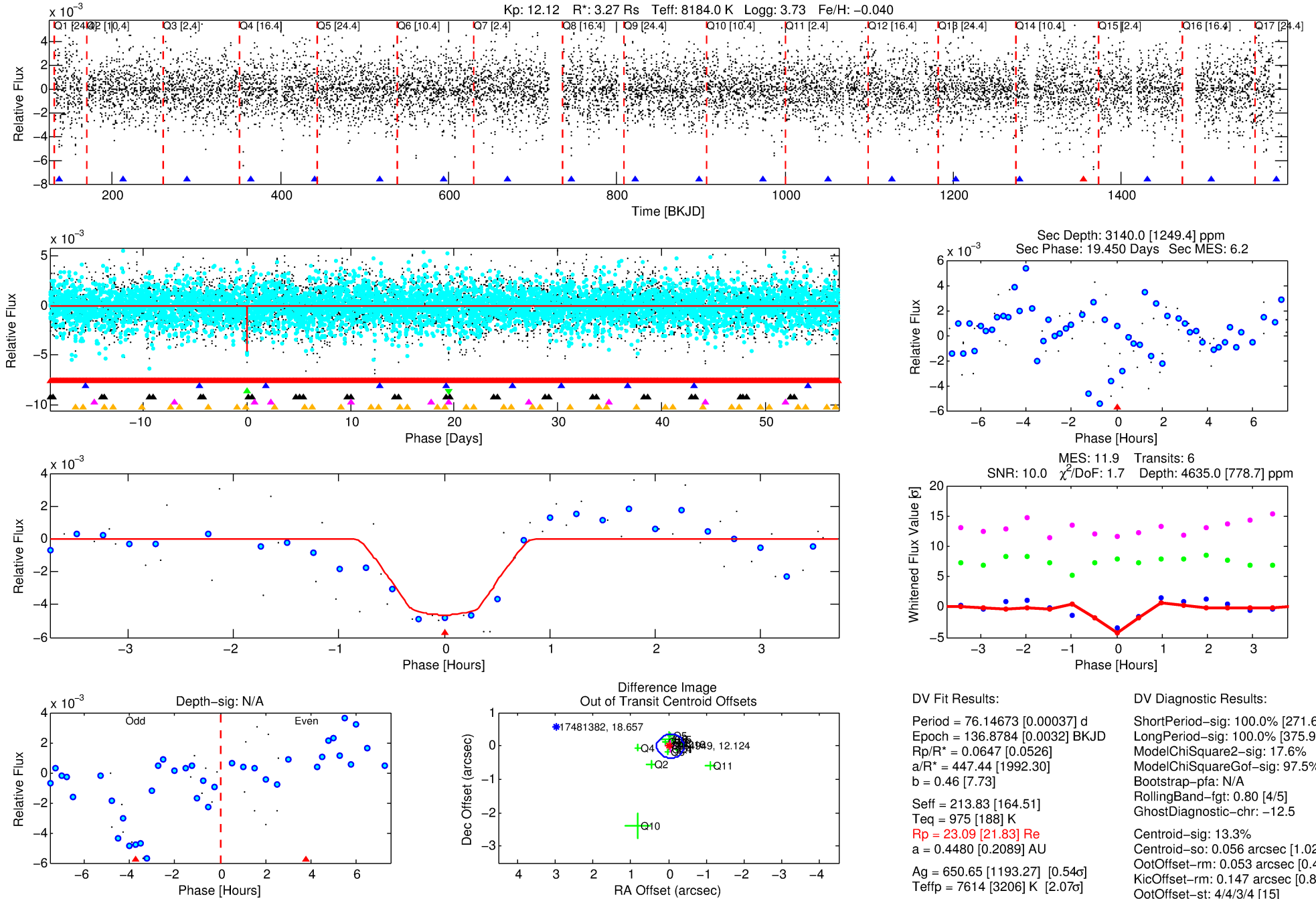
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264949-03

No Significant Match Found

DV One-Page Summary

KIC: 8264949 Candidate: 3 of 6 Period: 76.147 d



DV Fit Results:

Period = 76.14673 [0.00037] d
Epoch = 136.8784 [0.0032] BKJD
Rp/R* = 0.0647 [0.0526]
a/R* = 447.44 [1992.30]
b = 0.46 [7.73]
Seff = 213.83 [164.51]
Teq = 975 [188] K
Rp = 23.09 [21.83] Re
a = 0.4480 [0.2089] AU
Ag = 650.65 [1193.27] [0.54σ]
Teffp = 7614 [3206] K [2.07σ]

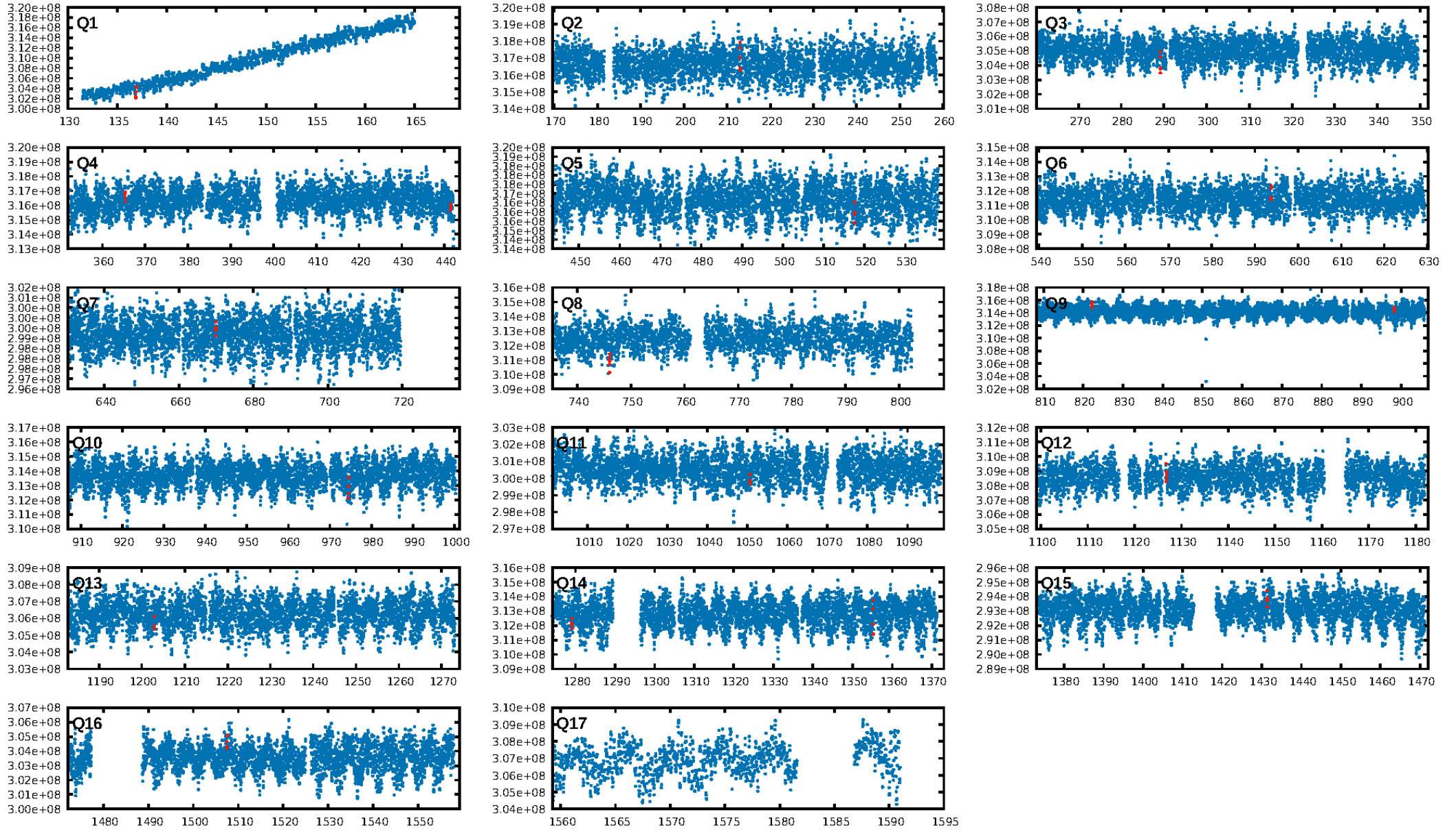
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [271.61σ]
LongPeriod-sig: 100.0% [375.92σ]
ModelChiSquare2-sig: 17.6%
ModelChiSquareGof-sig: 97.5%
Bootstrap-pfa: N/A
RollingBand-fgt: 0.80 [4/5]
GhostDiagnostic-chr: -12.5
Centroid-sig: 13.3%
Centroid-so: 0.056 arcsec [1.02σ]
OotOffset-rm: 0.053 arcsec [0.44σ]
KicOffset-rm: 0.147 arcsec [0.82σ]
OotOffset-st: 4/4/3/4 [15]
KicOffset-st: 4/4/3/4 [15]
DiffImageQuality-fgm: 0.47 [7/15]
DiffImageOverlap-fno: 0.00 [0/15]

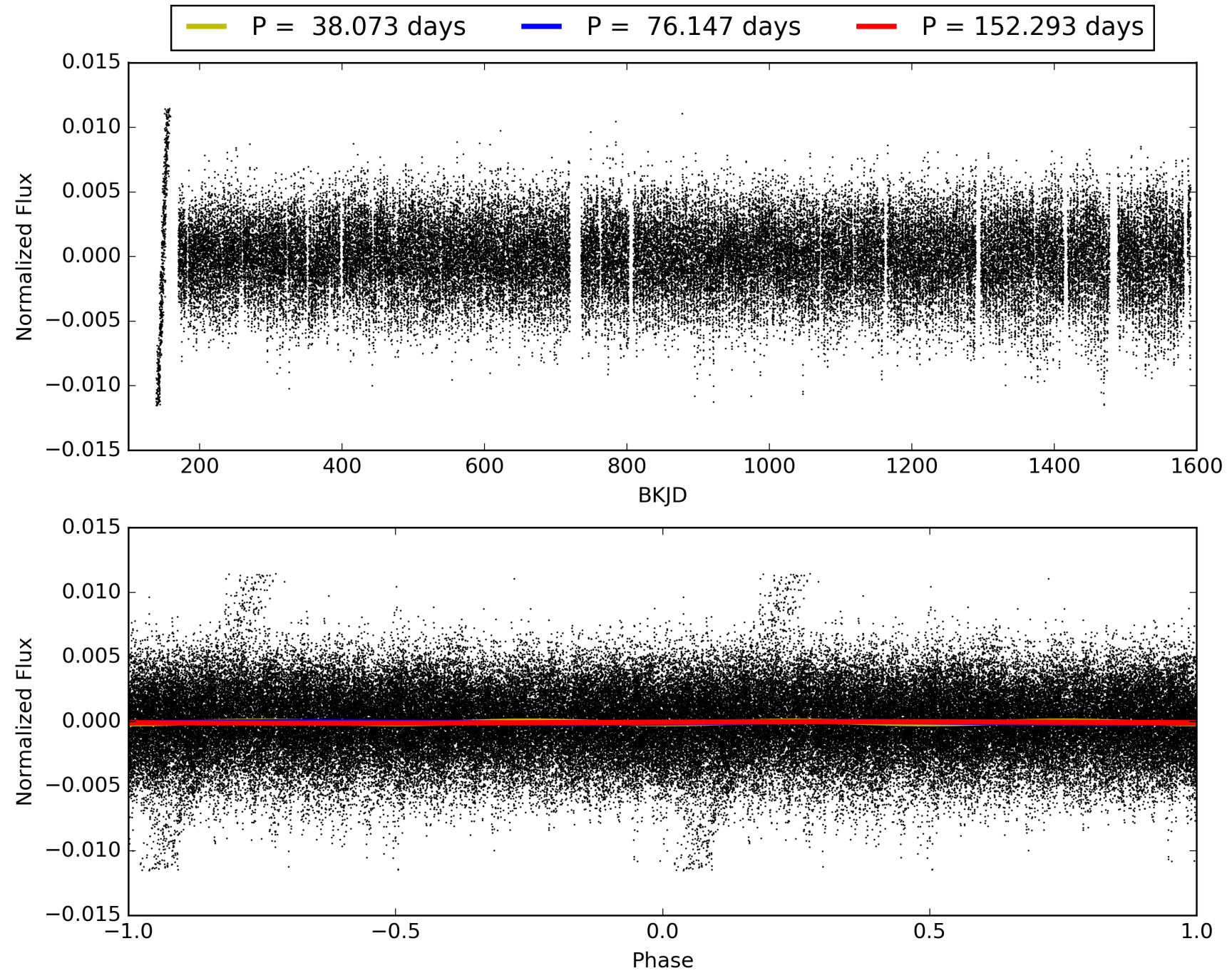
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:49:46 Z

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

TCE 008264949-03, PDC Light Curves

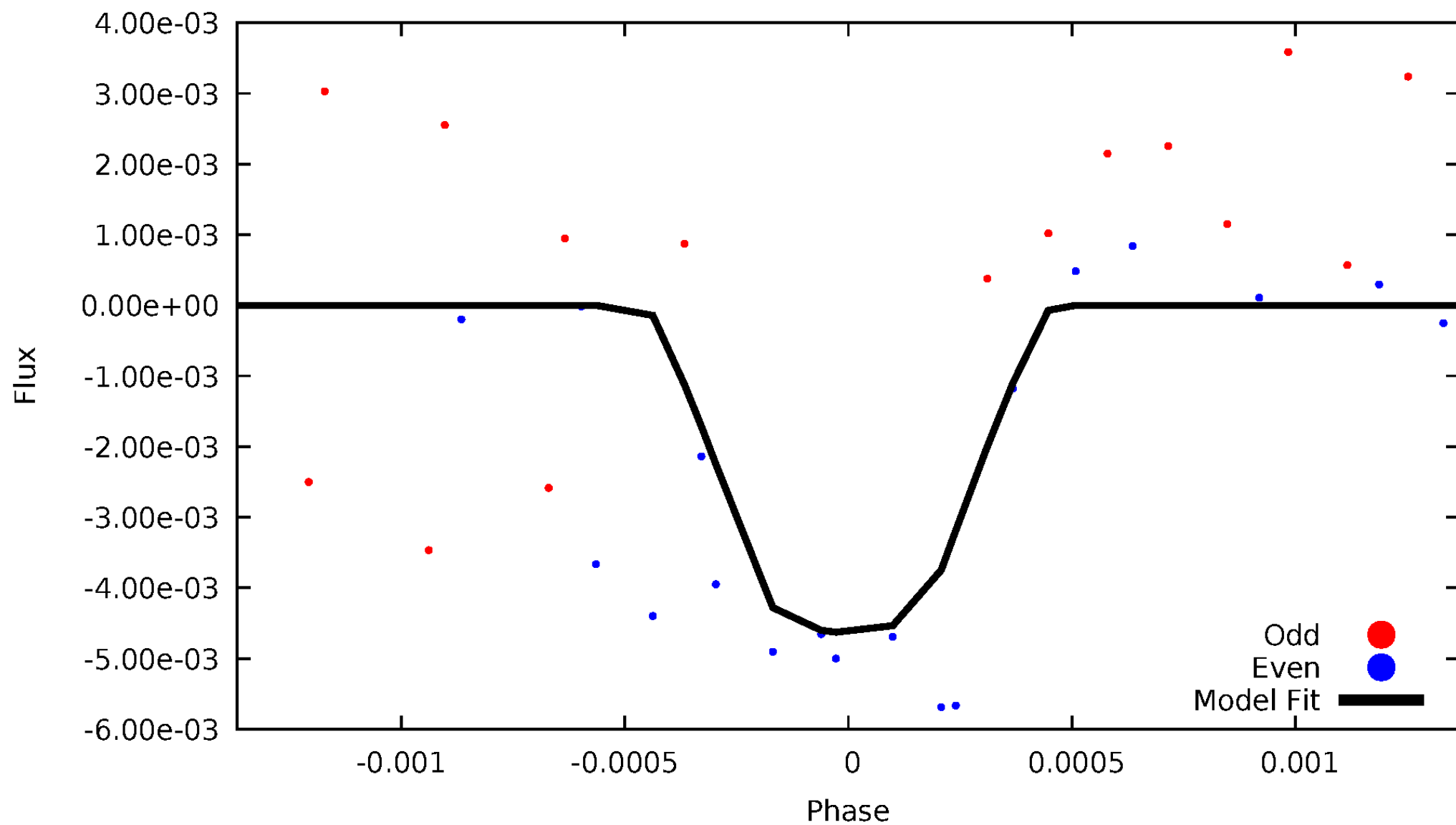


TCE 008264949-03



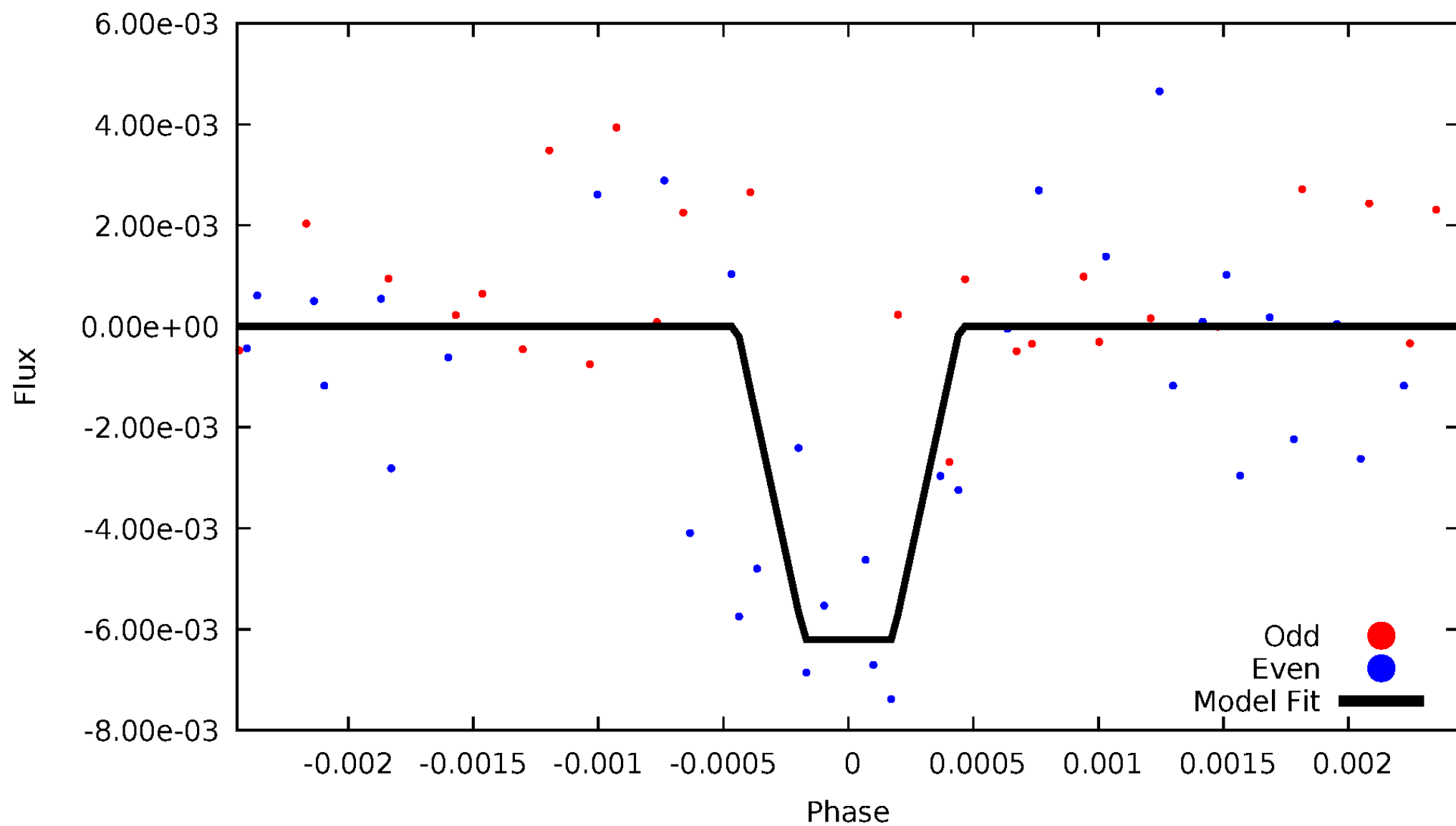
DV Odd/Even

TCE 008264949-03



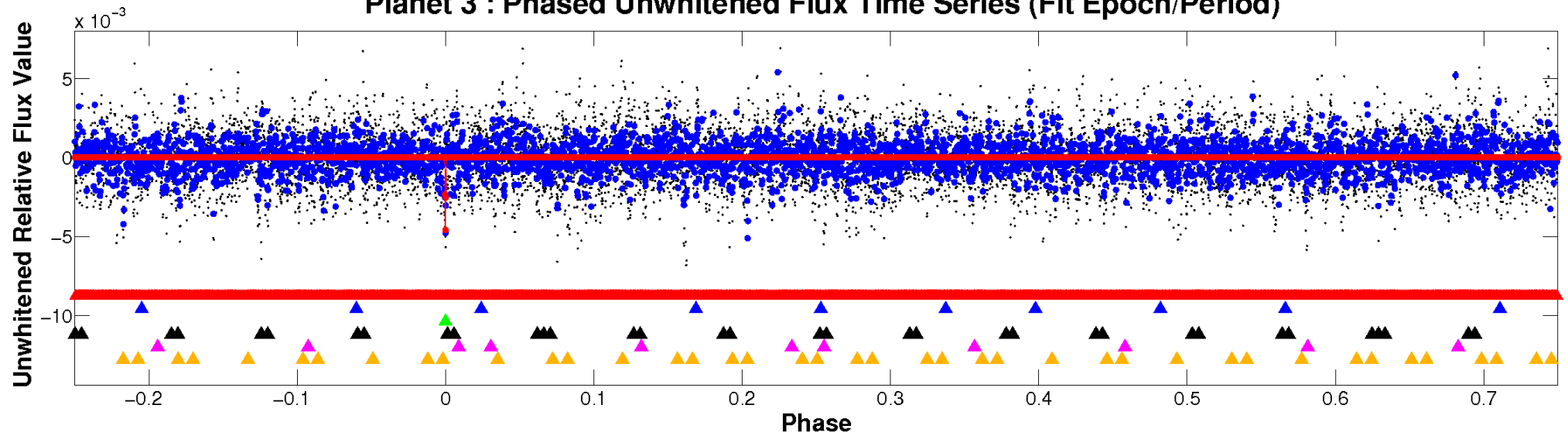
ALT Odd/Even

TCE 008264949-03

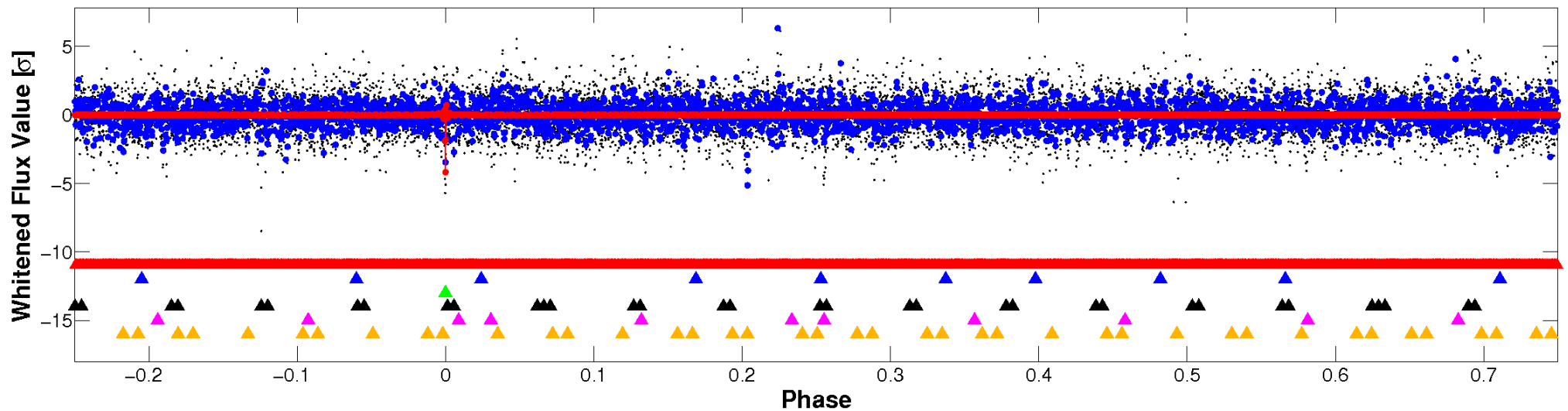


Non-Whitened Vs. Whitened Light Curve

Planet 3 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

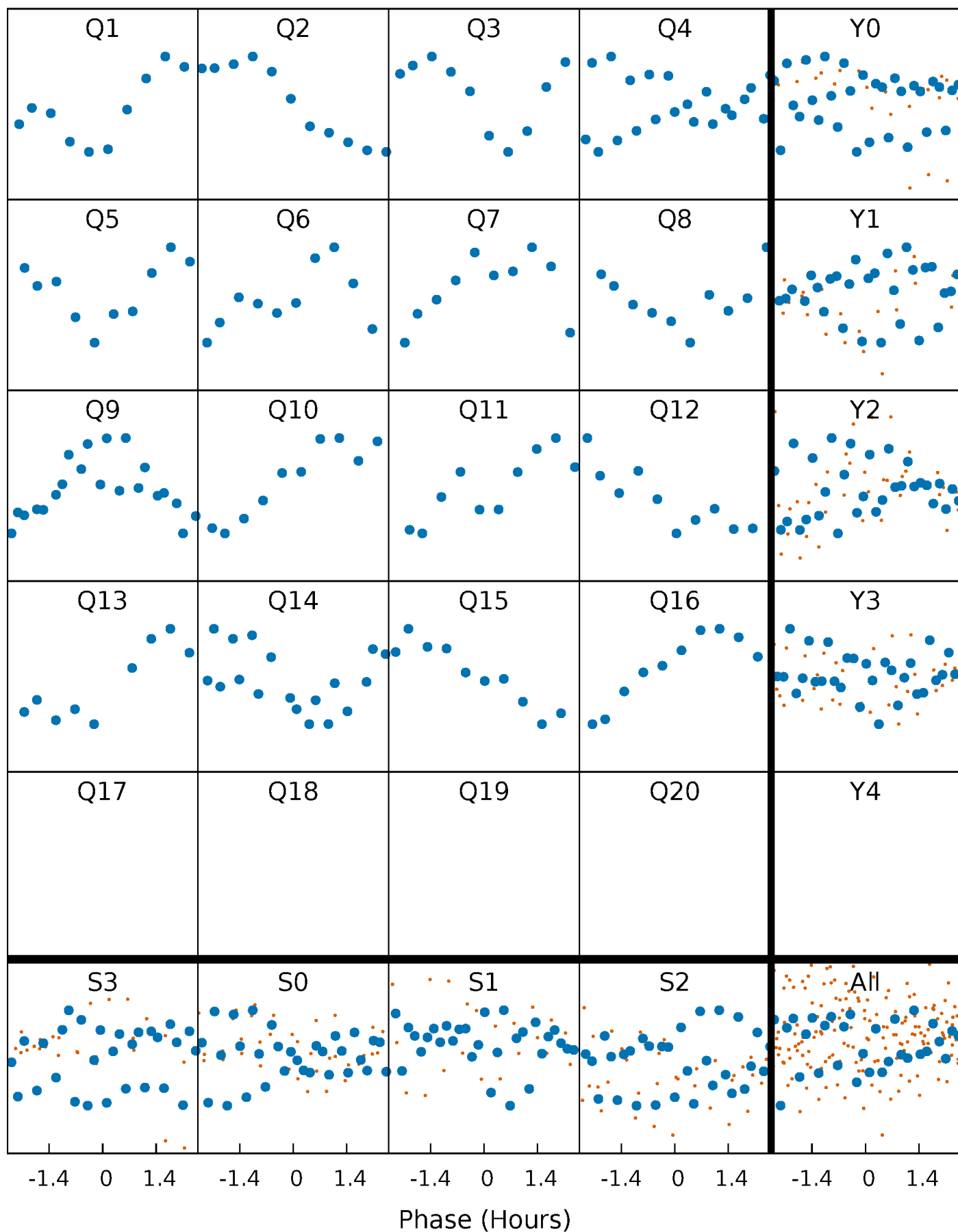


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



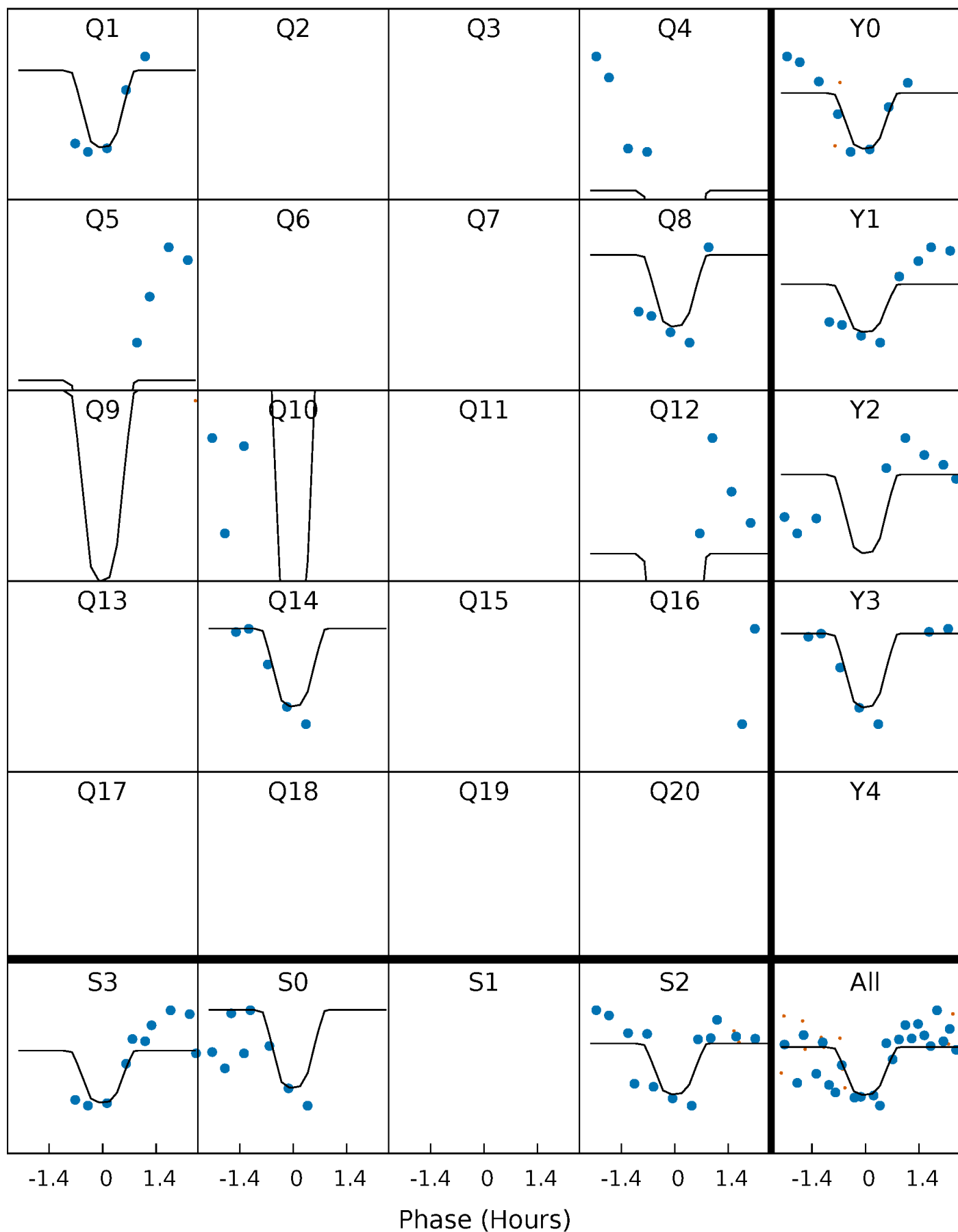
PDC Quarter-Phased Transit Curves

TCE 008264949-03 P= 76.146727 Days $T_0=136.878381$ (BKJD)



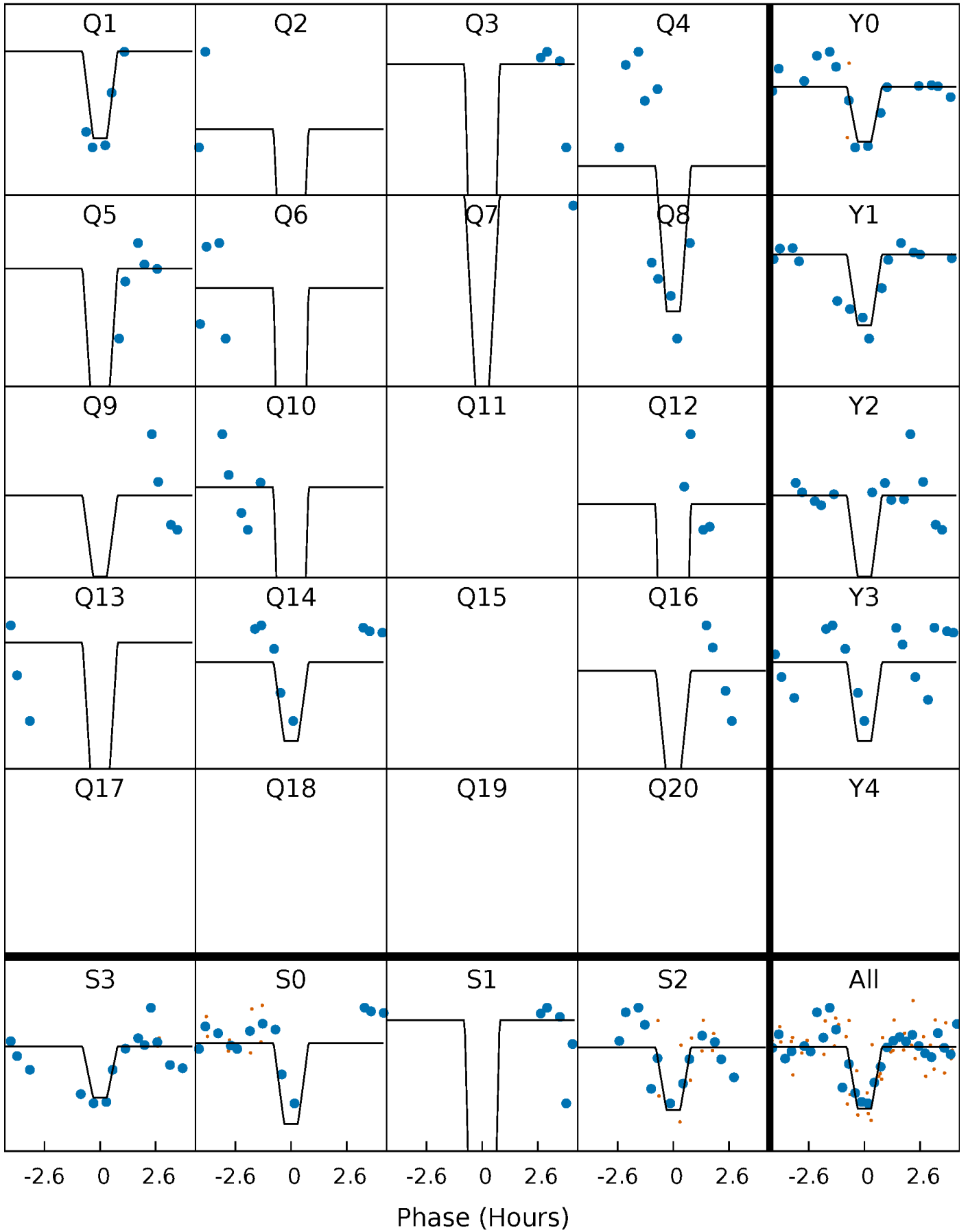
DV Quarter-Phased Transit Curves

TCE 008264949-03 P= 76.146727 Days $T_0=136.878381$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

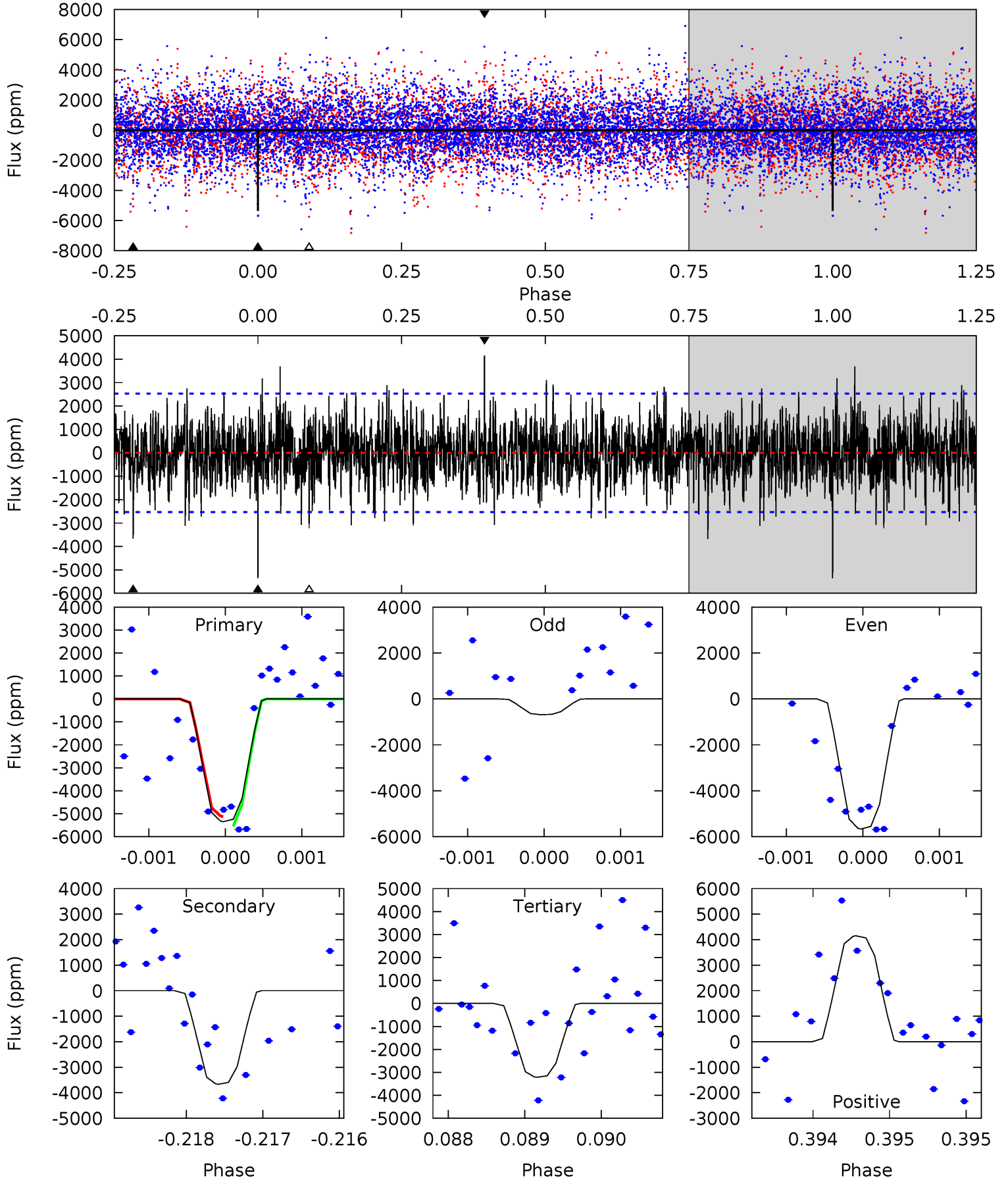
TCE 008264949-03 P= 76.147393 Days $T_0=136.878311$ (BKJD)



DV Model-Shift Uniqueness Test

008264949-03, P = 76.146727 Days, E = 60.731654 Days

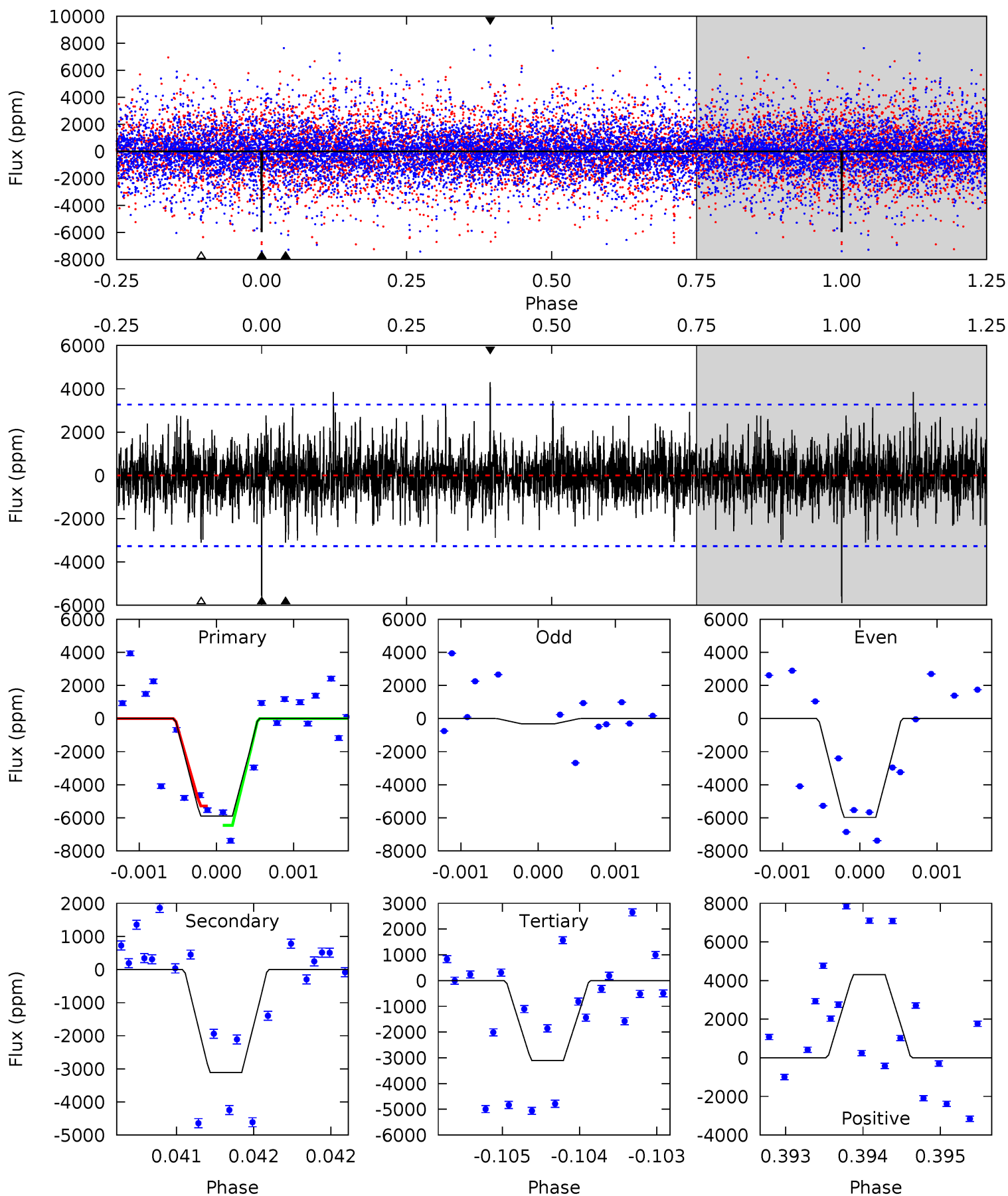
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 11.6 | 7.92 | 6.94 | 8.97 | 5.46 | 3.31 | 2.02 | 4.61 | 2.58 | 0.98 | -1.05 | 4.66 | 1.01 | 0.44 | 0.46 |



Alt Model-Shift Uniqueness Test

008264949-03, P = 76.147393 Days, E = 60.730918 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 9.87 | 5.21 | 5.21 | 7.22 | 5.48 | 3.34 | 1.44 | 4.66 | 2.66 | 0.01 | -2.00 | 3.99 | 0.85 | 0.42 | 0.98 |



Stellar Parameters For KIC 008264949

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | $R (R_{\odot})$ | $M(M_{\odot})$ | $p_{\star} (\text{g}\cdot\text{cm}^{-3})$ |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 8184^{+226}_{-368} | $3.725^{+0.440}_{-0.138}$ | $-0.040^{+0.250}_{-0.400}$ | $3.268^{+0.848}_{-1.576}$ | $2.068^{+0.347}_{-0.521}$ | $0.083^{+0.329}_{-0.034}$ |
| | +3%/-4% | +12%/-4% | +625%/-1000% | +26%/-48% | +17%/-25% | +395%/-41% |
| Source | KIC0 | 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 008264949-03 / KOI

| Detrend | Depth (ppm) | $R_p (R_{\oplus})$ | $T_{max} (K)$ | $T_{obs} (K)$ | A_{obs} |
|---------|-----------------|---------------------------|----------------------|------------------------|----------------------|
| DV | -3668 ± 463 | $21.74^{+17.34}_{-12.43}$ | 1322^{+116}_{-167} | 7650^{+6055}_{-1991} | 852^{+3875}_{-579} |
| Alt. | -3109 ± 596 | $26.94^{+19.24}_{-15.42}$ | 1320^{+109}_{-162} | 6456^{+4268}_{-1330} | 469^{+2028}_{-312} |

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 $A_{obs} \gg 1.0$

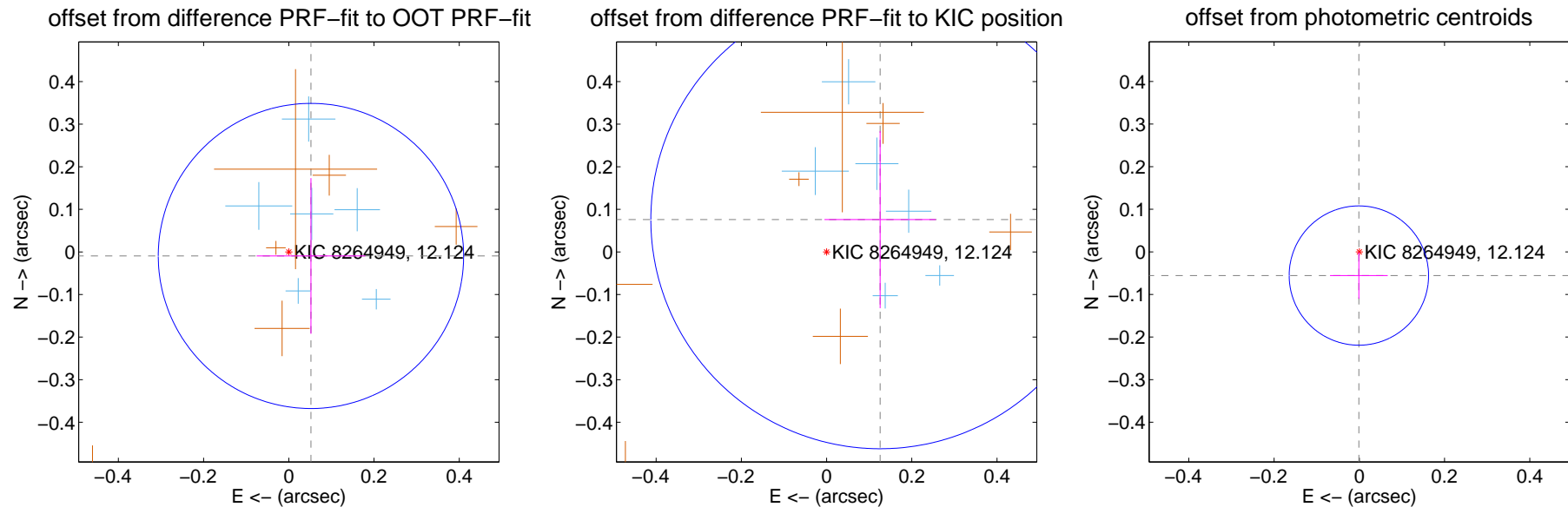
DV Centroid Data

Supplemental centroid analysis for 008264949-03. Kepler magnitude: 12.12. Transit SNR 9.96

There are 7 quarters with good PRF difference image offsets

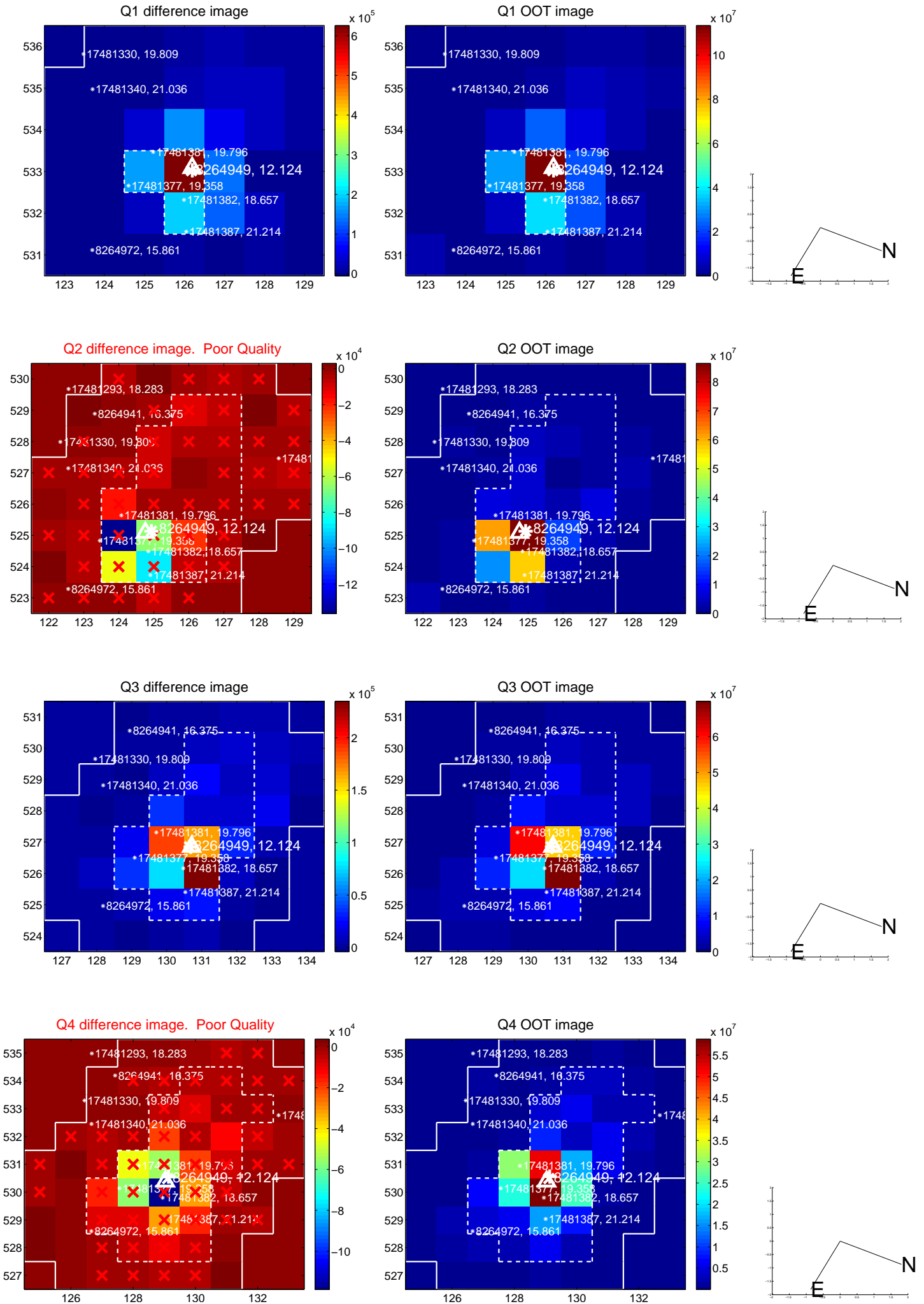
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

| | Distance in arcsec | Distance / σ | Δ RA | Δ Dec |
|---|--------------------|---------------------|--------------------|--------------------|
| PRF-fit source offset from OOT | 0.053 ± 0.119 | 0.44 | -0.052 ± 0.127 | -0.010 ± 0.183 |
| PRF-fit source offset from KIC position | 0.147 ± 0.179 | 0.82 | -0.126 ± 0.131 | 0.076 ± 0.208 |
| photometric centroid source offset | 0.06 ± 0.05 | 1.02 | 0.00 ± 0.07 | -0.06 ± 0.05 |

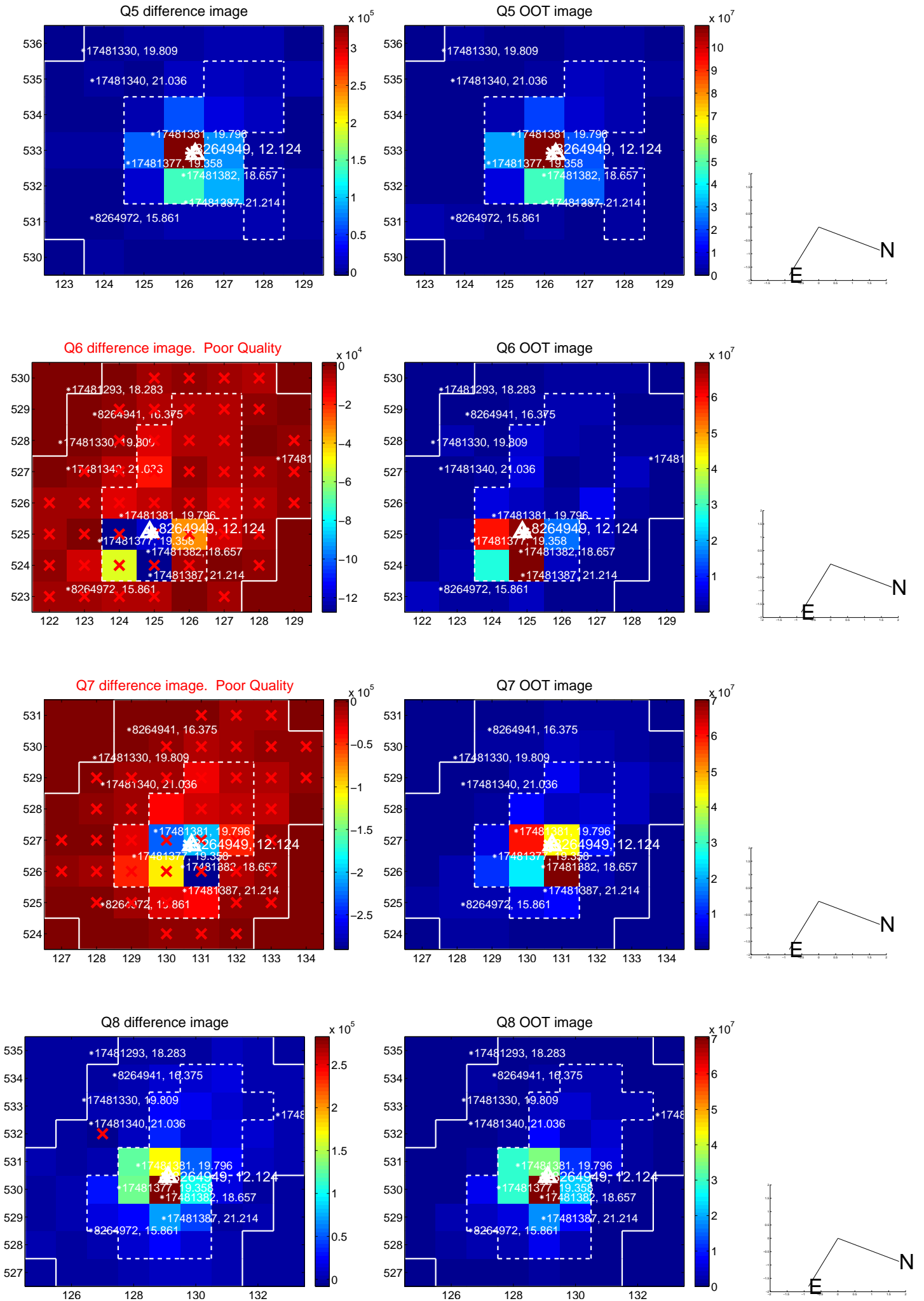


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

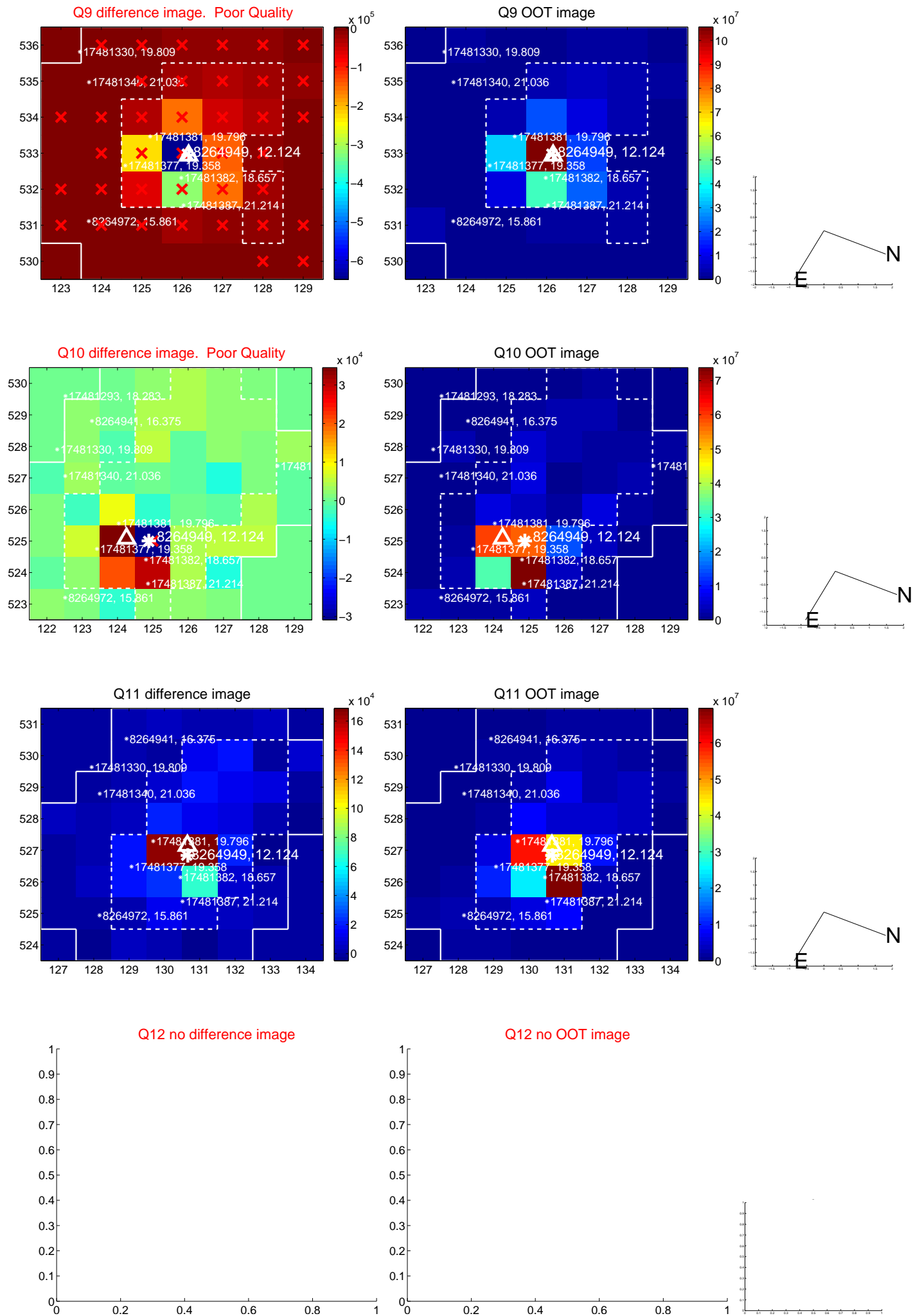
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



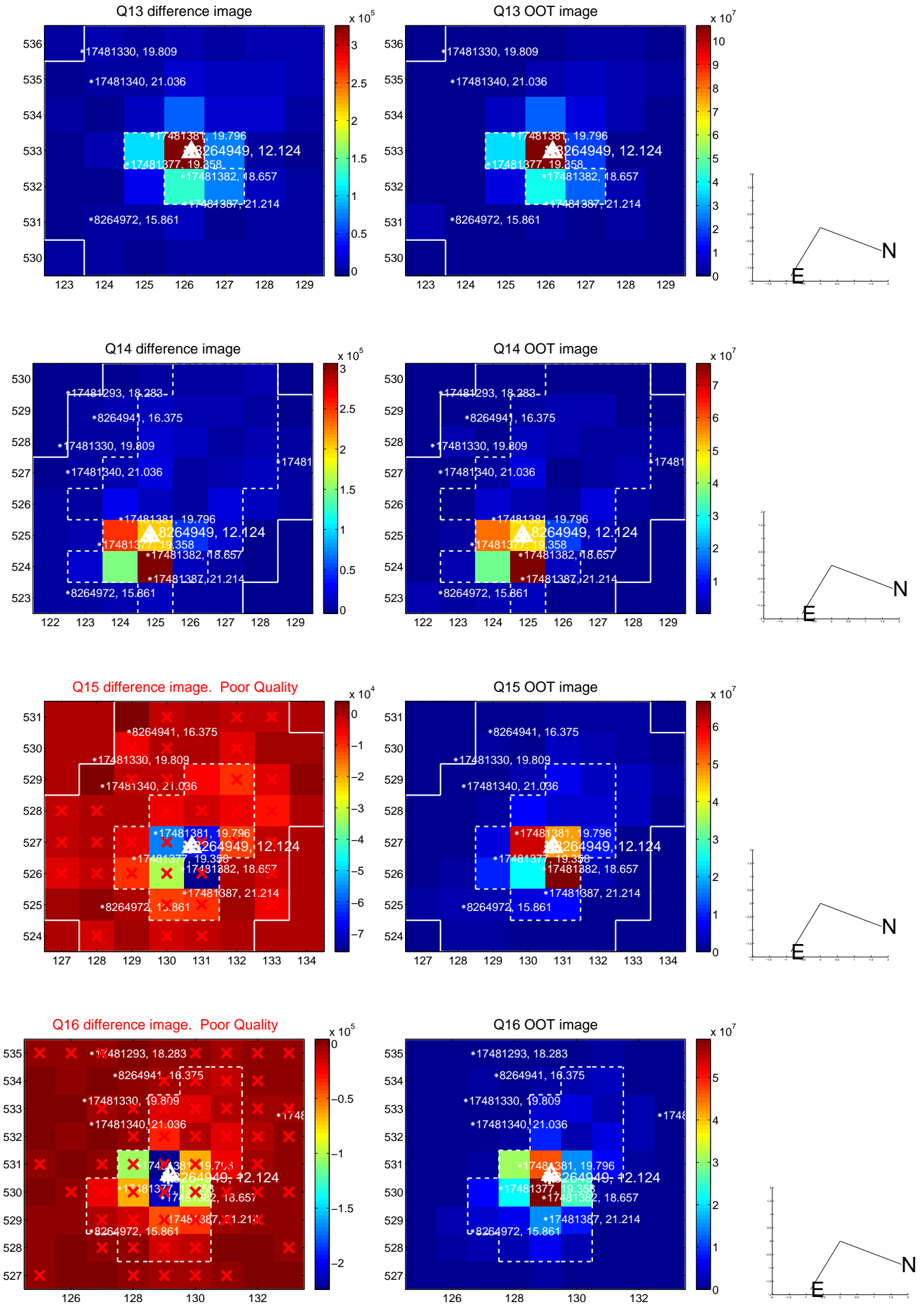
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



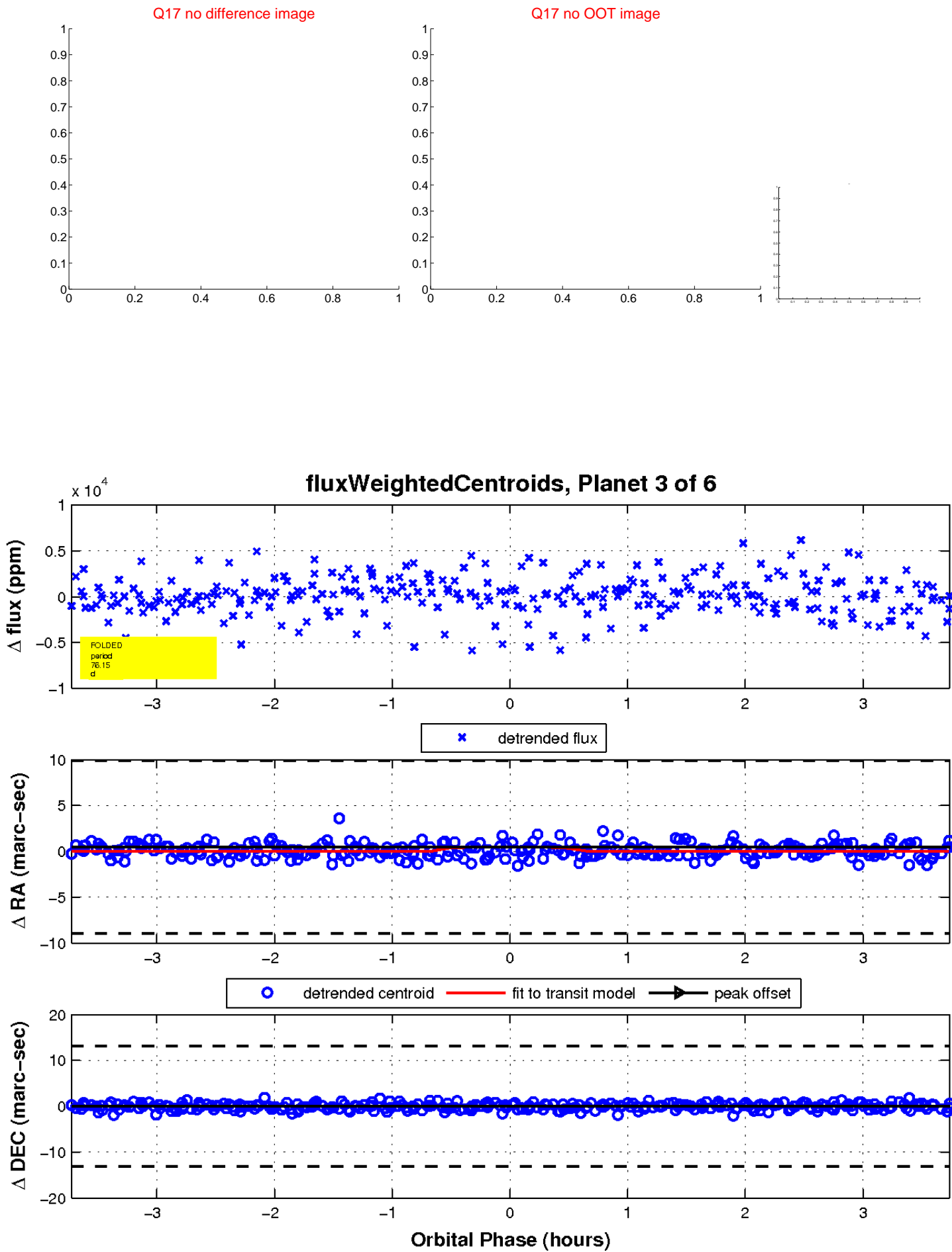
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

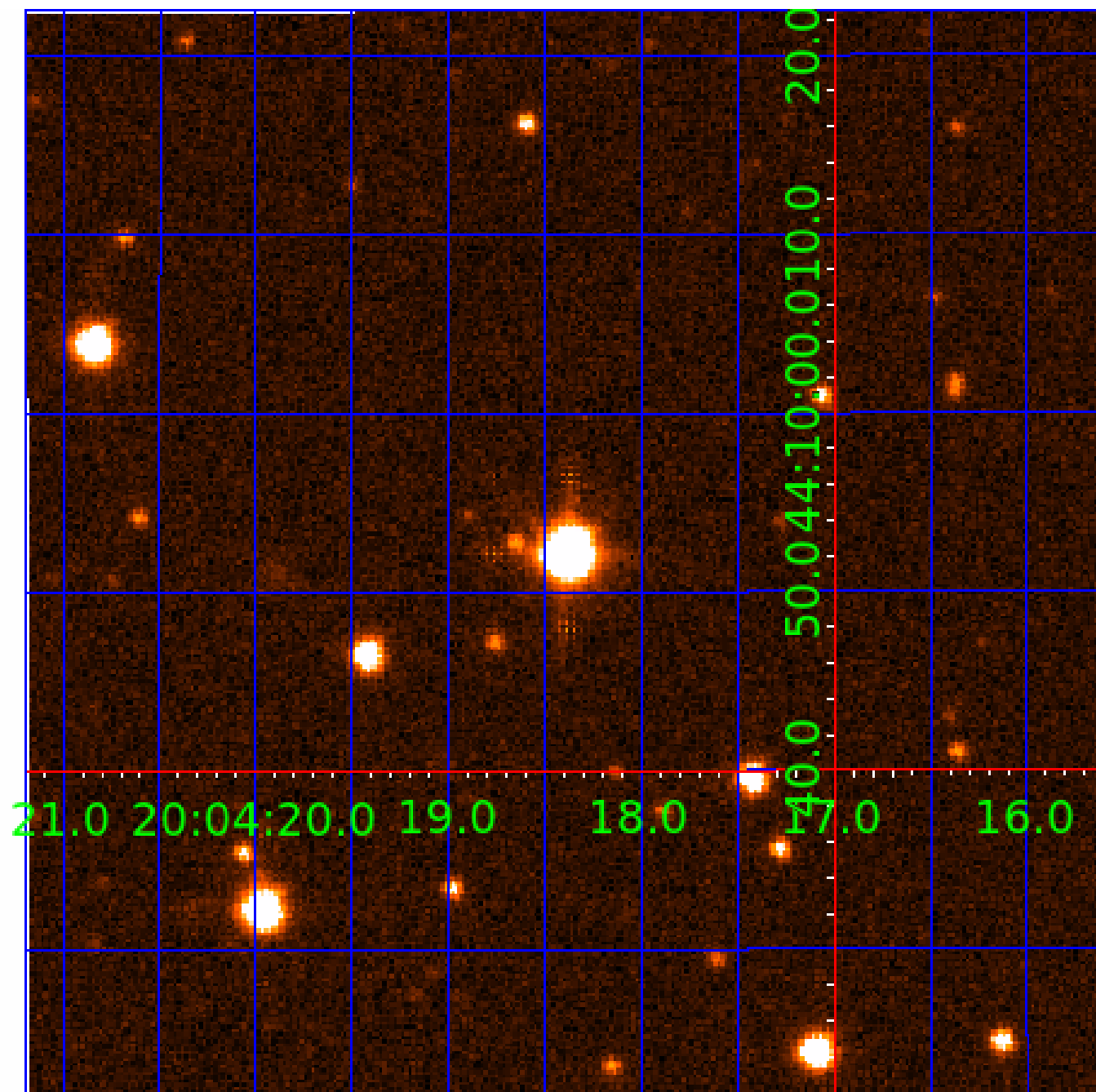


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264949

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|------|------|-----------------------------|-----------------|------------------------|------------------------|
| 008264949-01 | OBS | No | 0.588553 | 131.888239 | 207.1 | 3.773 | 11.1 | 10.2 | 3.27 | 8184 | 5.04 | 139925.53 |
| 008264949-03 | OBS | No | 76.146727 | 136.878381 | 4635.0 | 1.249 | 11.9 | 10.0 | 3.27 | 8184 | 23.09 | 213.83 |
| 008264949-04 | OBS | No | 42.853370 | 141.594977 | 3488.1 | 2.663 | 10.8 | 10.2 | 3.27 | 8184 | 34.24 | 460.22 |
| 008264949-05 | OBS | No | 135.188378 | 156.313059 | 4931.5 | 2.578 | 9.7 | 9.6 | 3.27 | 8184 | 24.43 | 99.47 |
| 008264949-06 | OBS | No | 34.868578 | 162.376626 | 374.5 | 1.500 | 9.7 | -1.0 | 3.27 | 8184 | 6.42 | 605.85 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|--|
| 008264949-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT |
| 008264949-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT |
| 008264949-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT |
| 008264949-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS |
| 008264949-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS |

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

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

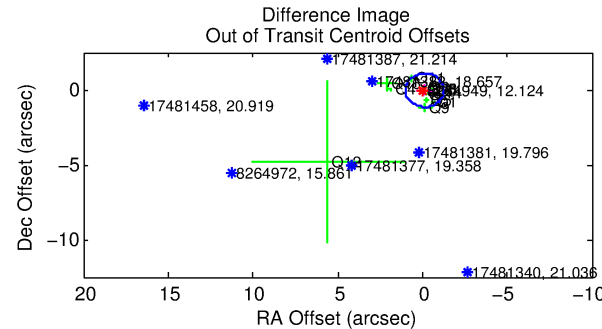
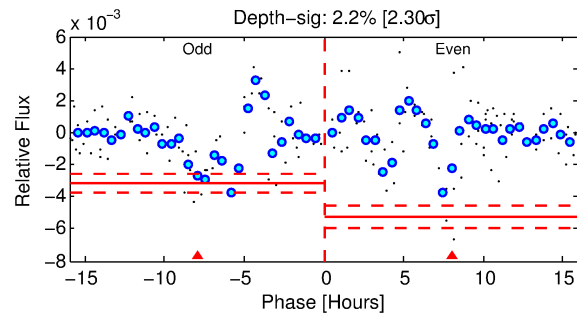
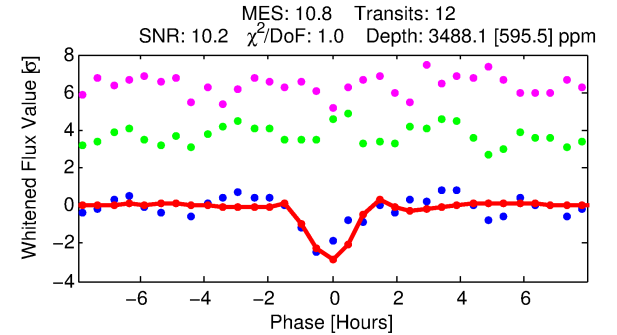
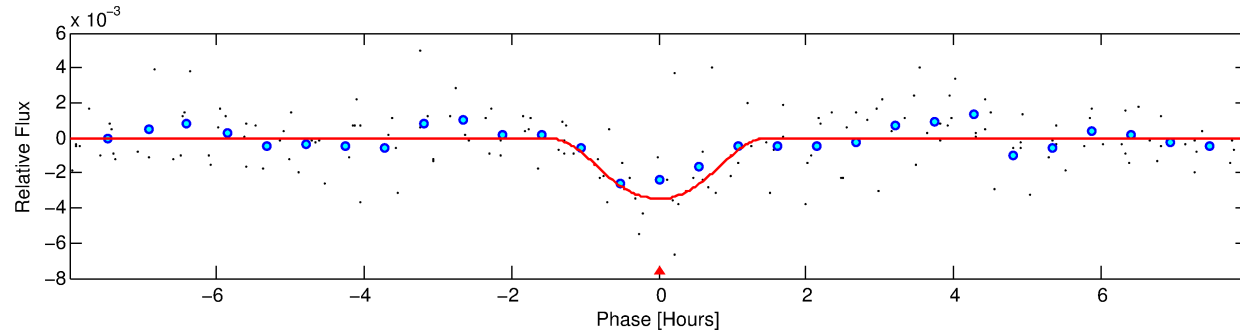
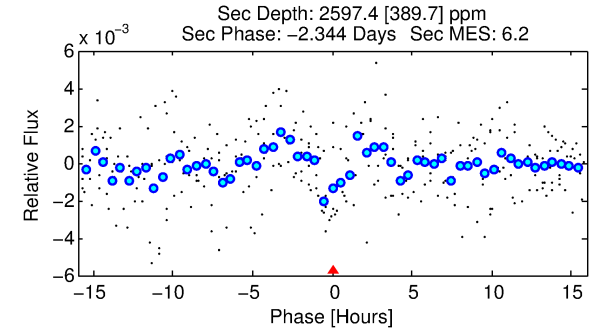
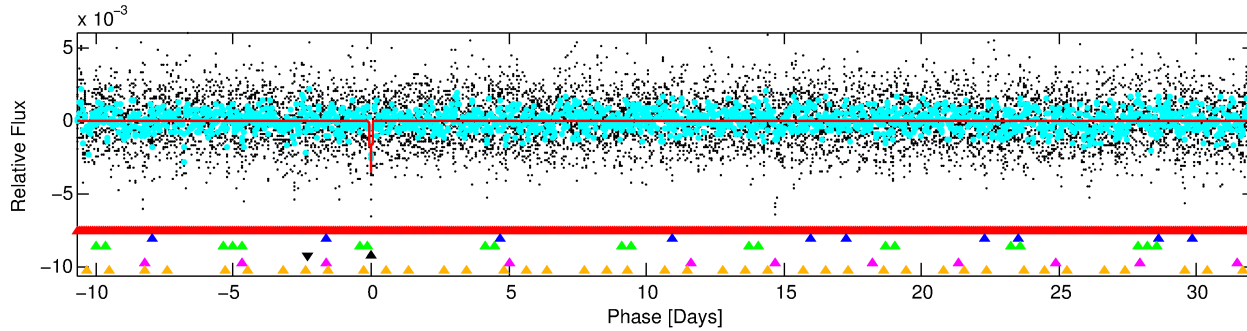
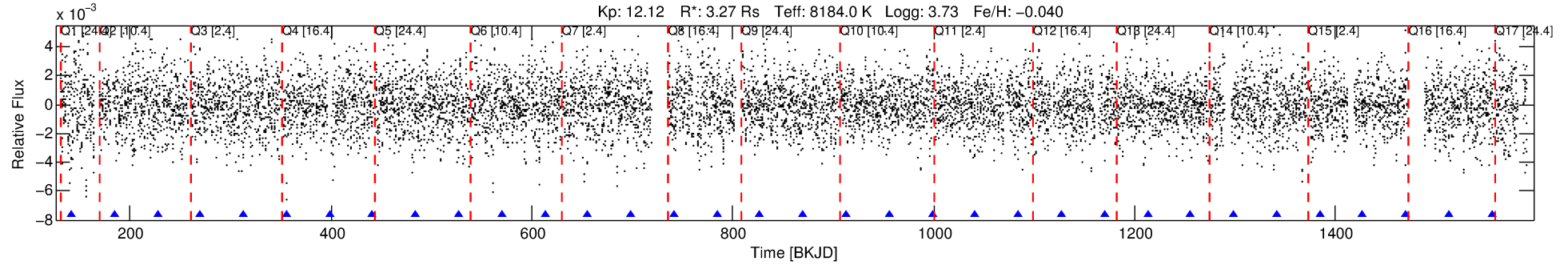
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264949-04

No Significant Match Found

DV One-Page Summary

KIC: 8264949 Candidate: 4 of 6 Period: 42.853 d



DV Fit Results:

Period = 42.85337 [0.00031] d
Epoch = 141.5950 [0.0054] BKJD
Rp/R* = 0.0960 [0.3302]
a/R* = 55.93 [43.31]
b = 1.00 [0.49]
Seff = 460.22 [354.07]
Teq = 1181 [227] K
Rp = 34.24 [118.90] Re
a = 0.3054 [0.1424] AU
Ag = 113.67 [786.56] [0.14σ]
Teffp = 5962 [10257] K [0.47σ]

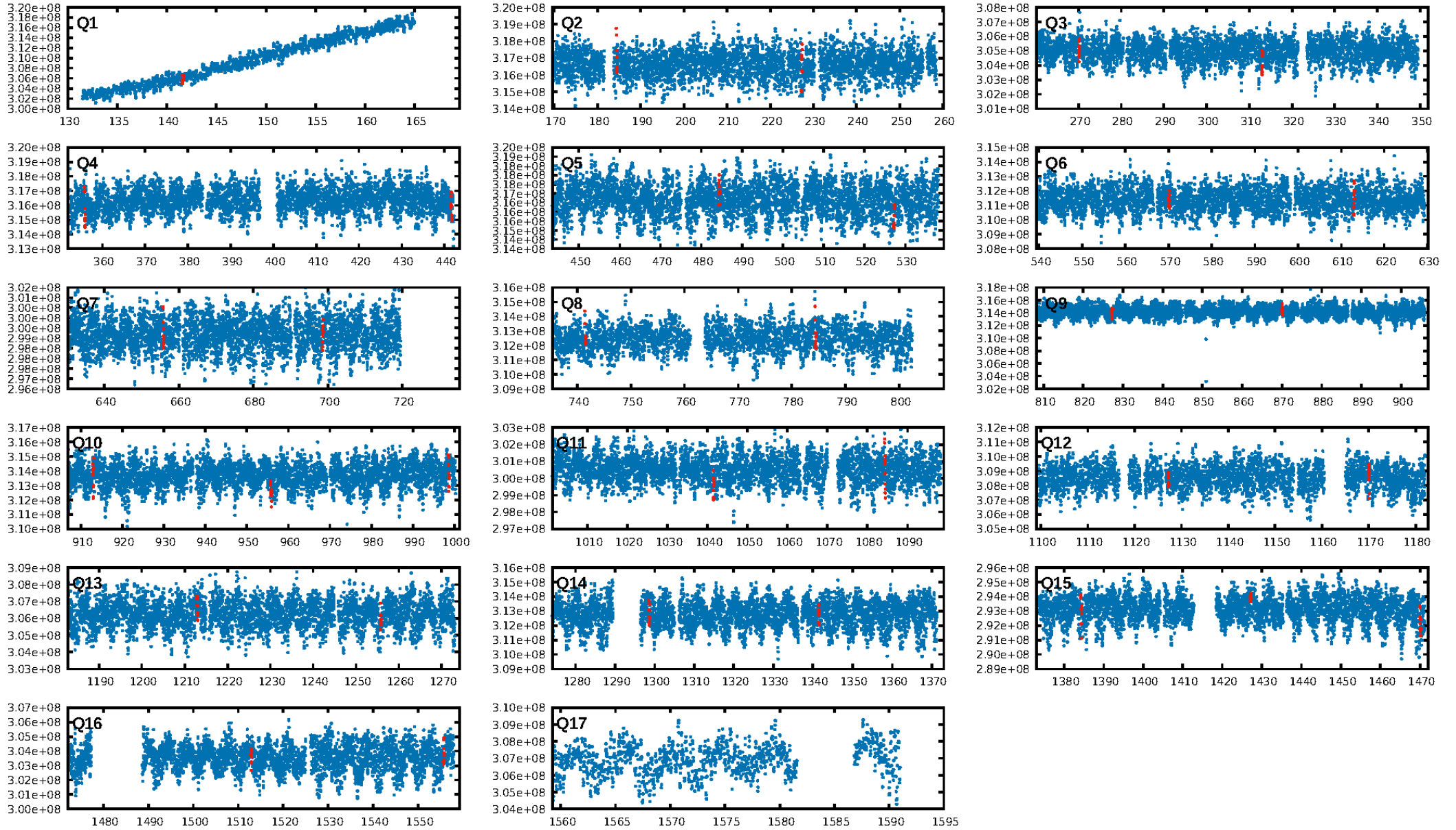
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [62.69σ]
LongPeriod-sig: 100.0% [271.61σ]
ModelChiSquare2-sig: 21.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [11/11]
GhostDiagnostic-chr: 11.46
Centroid-sig: 5.9%
Centroid-so: 0.198 arcsec [3.33σ]
OotOffset-rm: 0.117 arcsec [0.31σ]
KicOffset-rm: 0.173 arcsec [0.48σ]
OotOffset-st: 3/4/4/4 [15]
KicOffset-st: 3/4/4/4 [15]
DiffImageQuality-fgm: 0.60 [9/15]
DiffImageOverlap-fno: 0.00 [0/16]

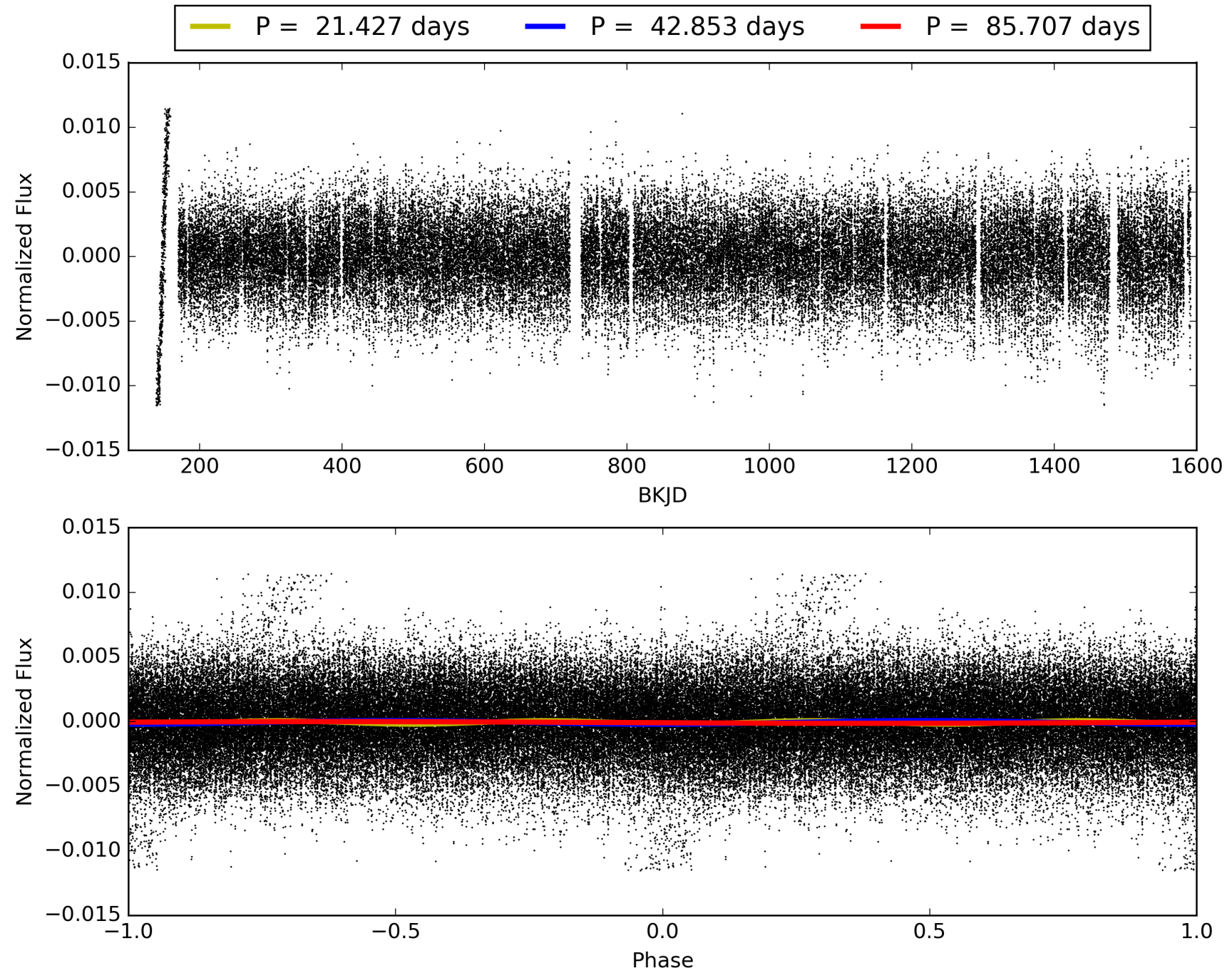
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:49:50 Z

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

TCE 008264949-04, PDC Light Curves

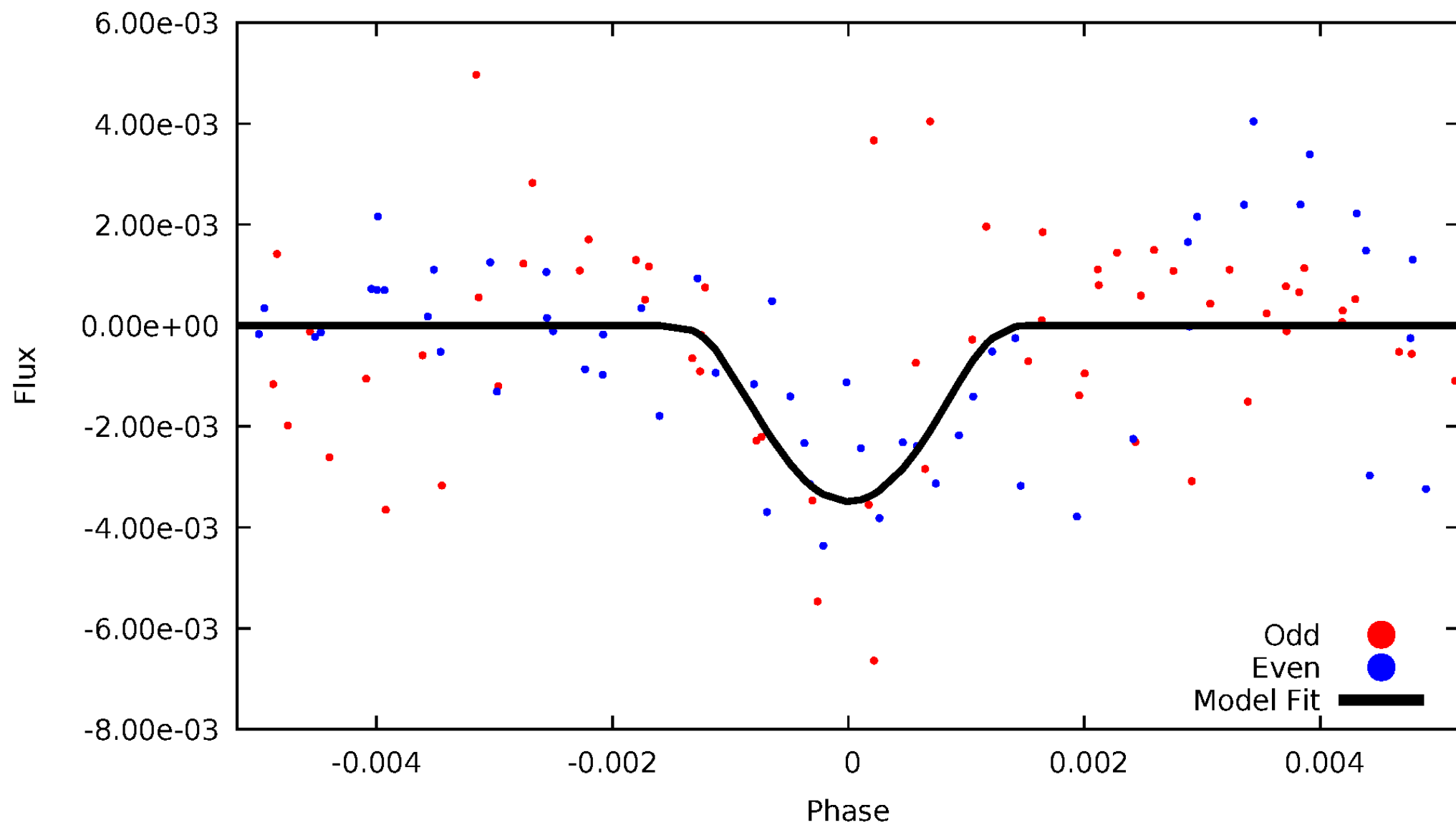


TCE 008264949-04



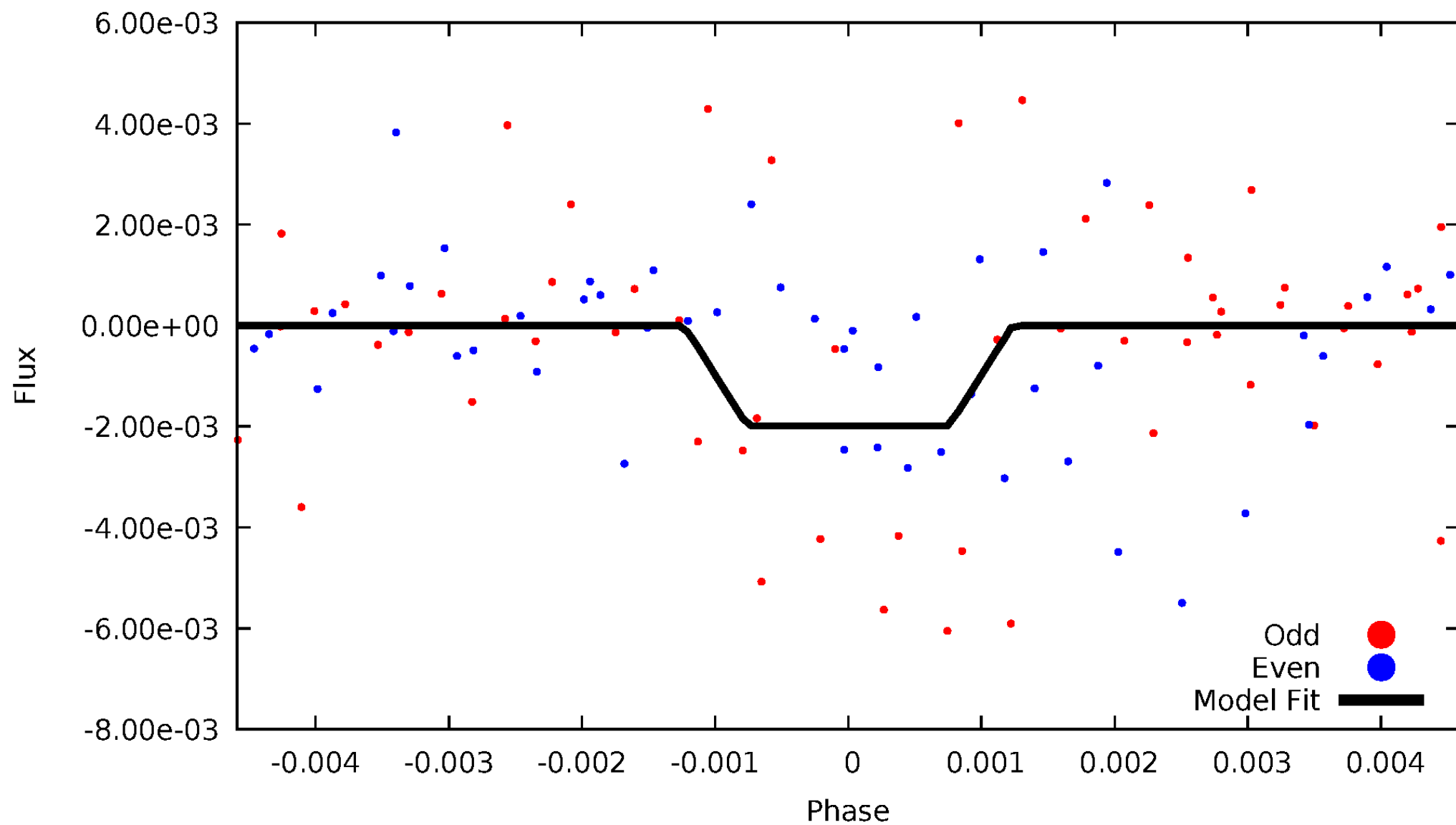
DV Odd/Even

TCE 008264949-04



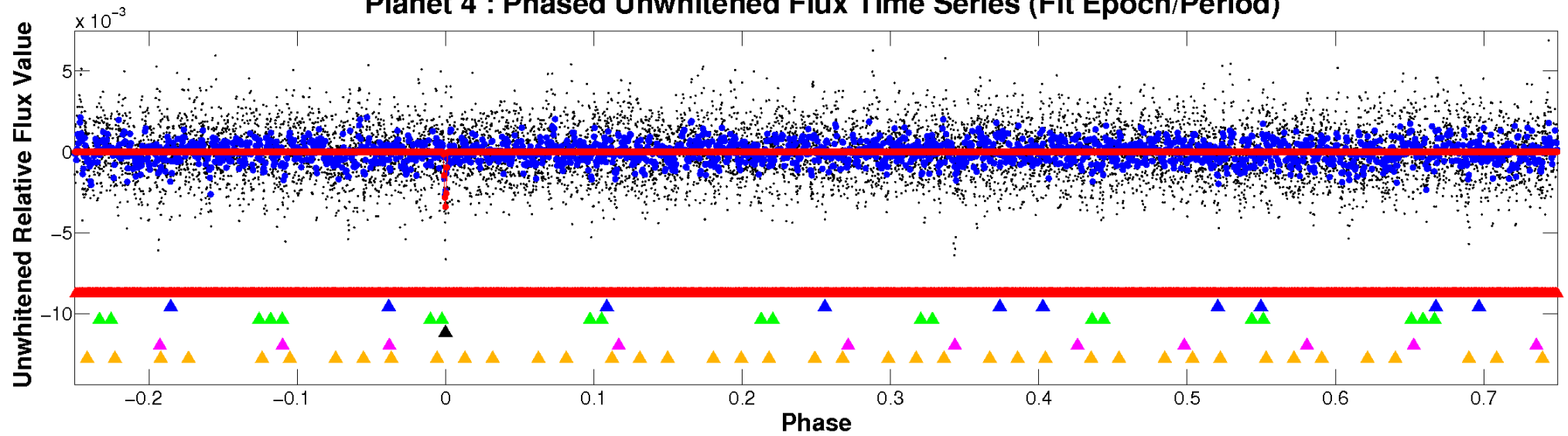
ALT Odd/Even

TCE 008264949-04

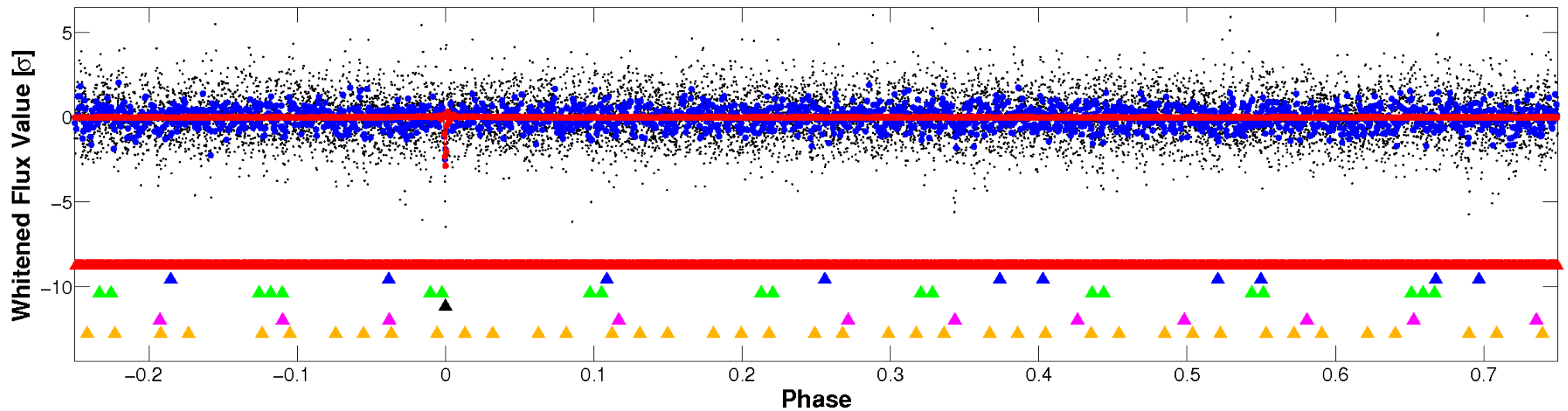


Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

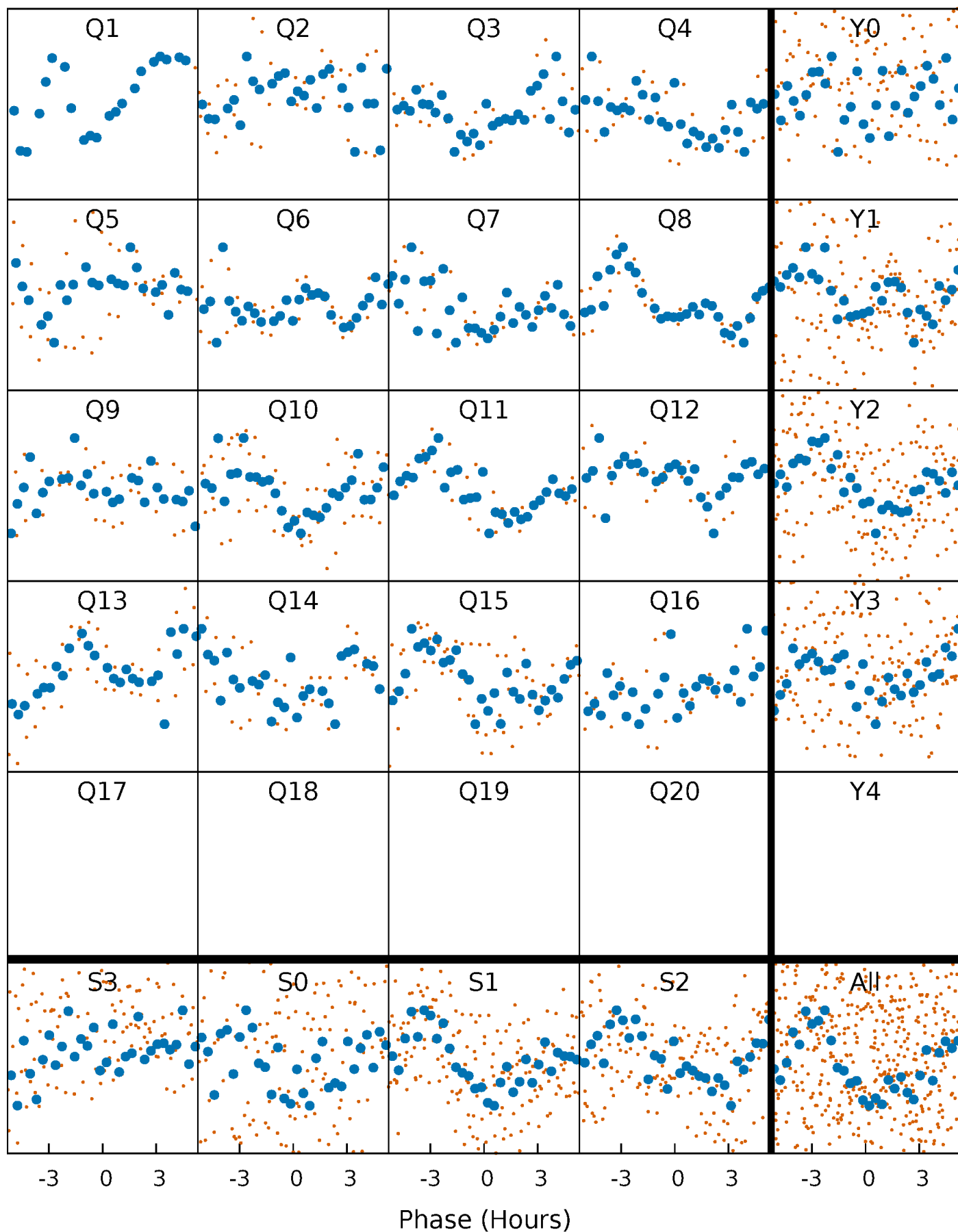


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



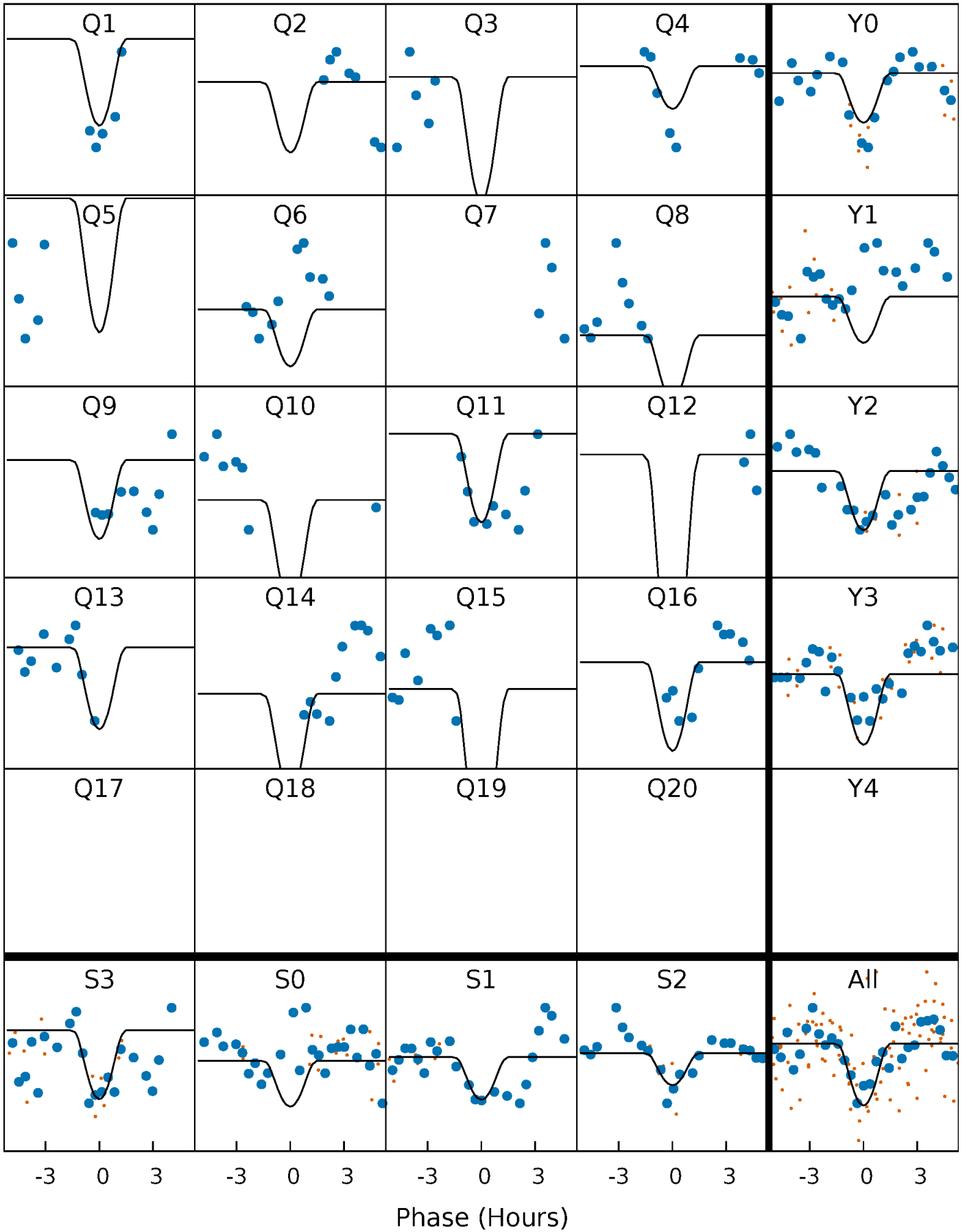
PDC Quarter-Phased Transit Curves

TCE 008264949-04 P= 42.853370 Days $T_0=141.594977$ (BKJD)



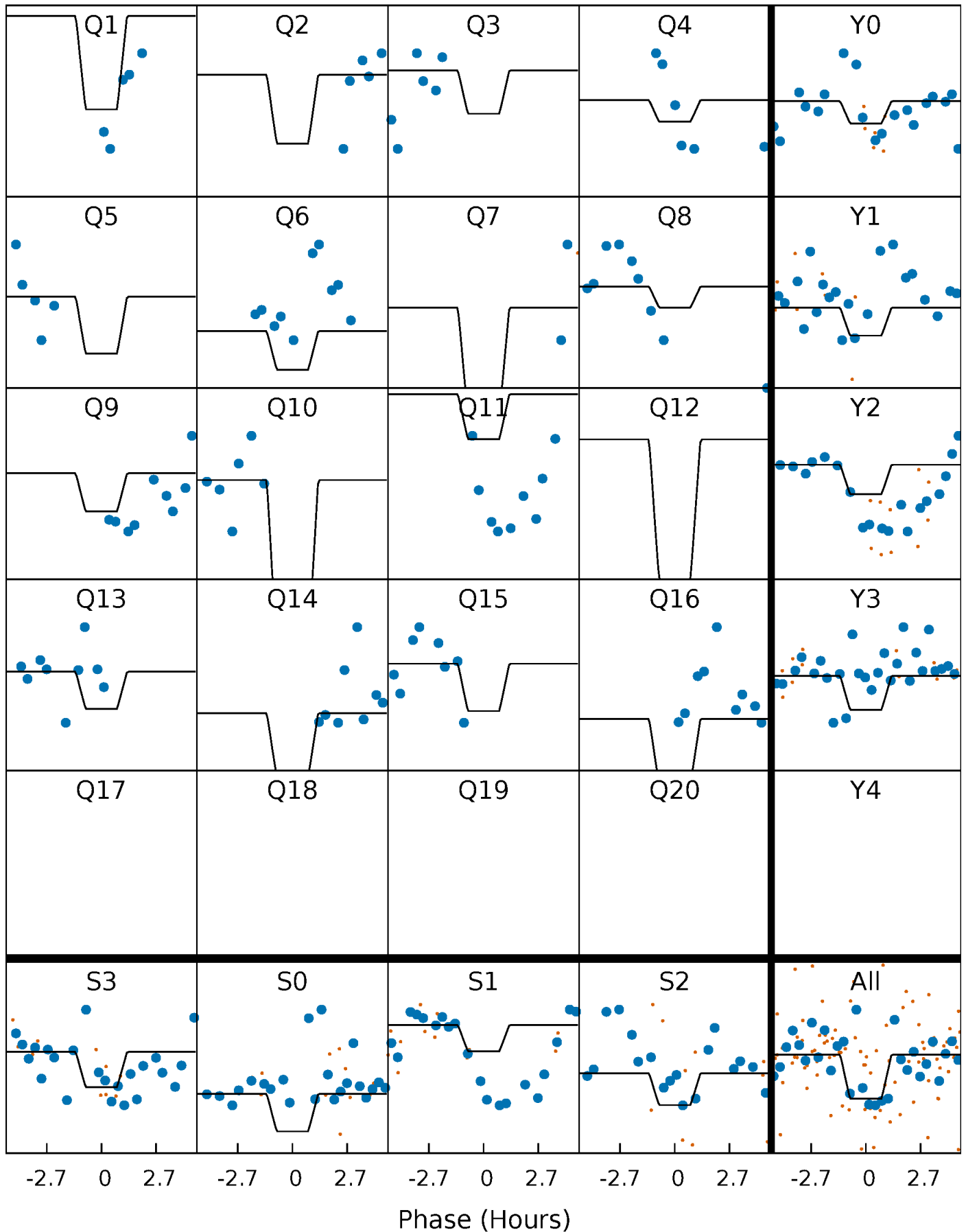
DV Quarter-Phased Transit Curves

TCE 008264949-04 P= 42.853370 Days $T_0=141.594977$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

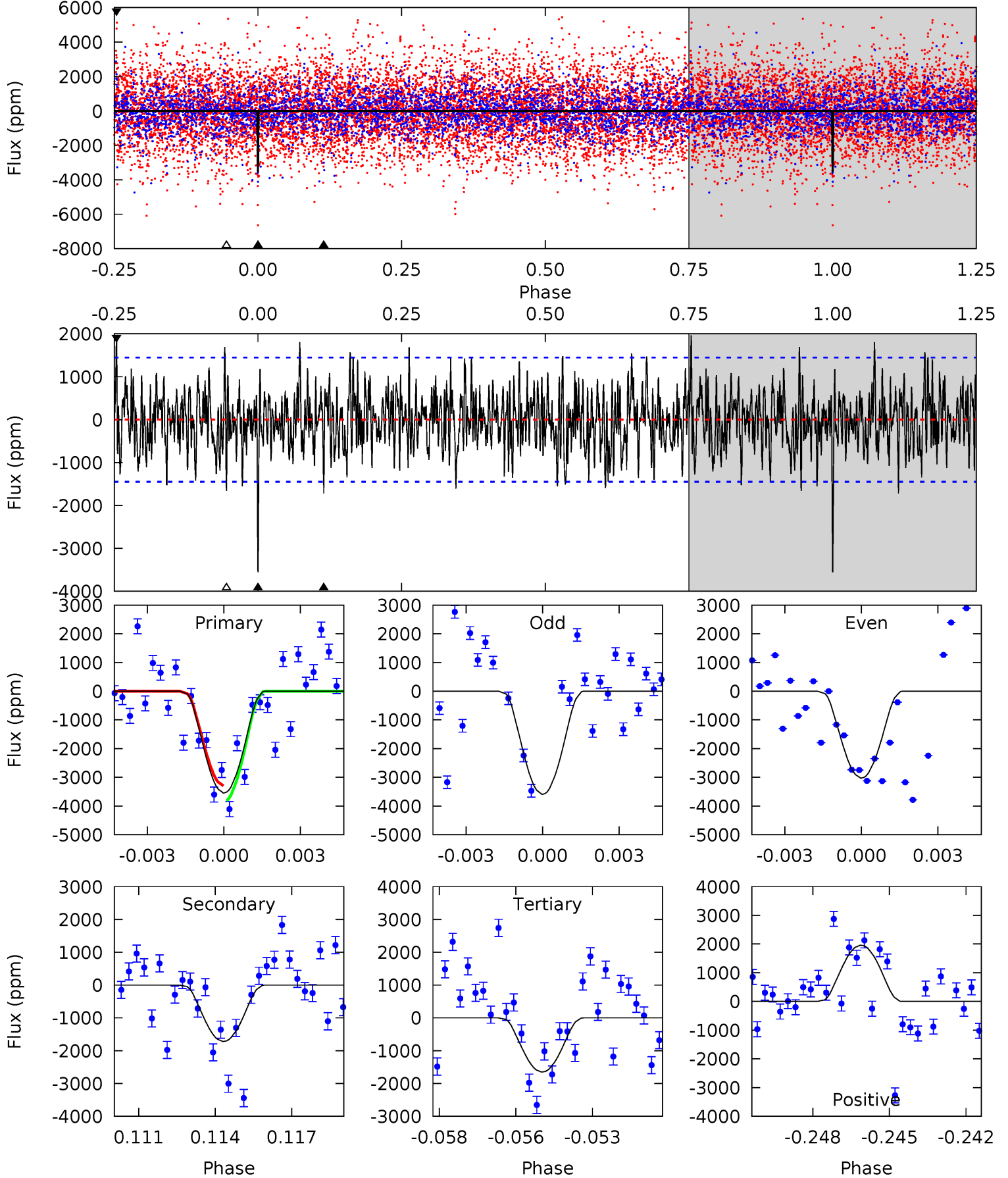
TCE 008264949-04 $P = 42.853546$ Days $T_0 = 141.566820$ (BKJD)



DV Model-Shift Uniqueness Test

008264949-04, P = 42.853370 Days, E = 98.741607 Days

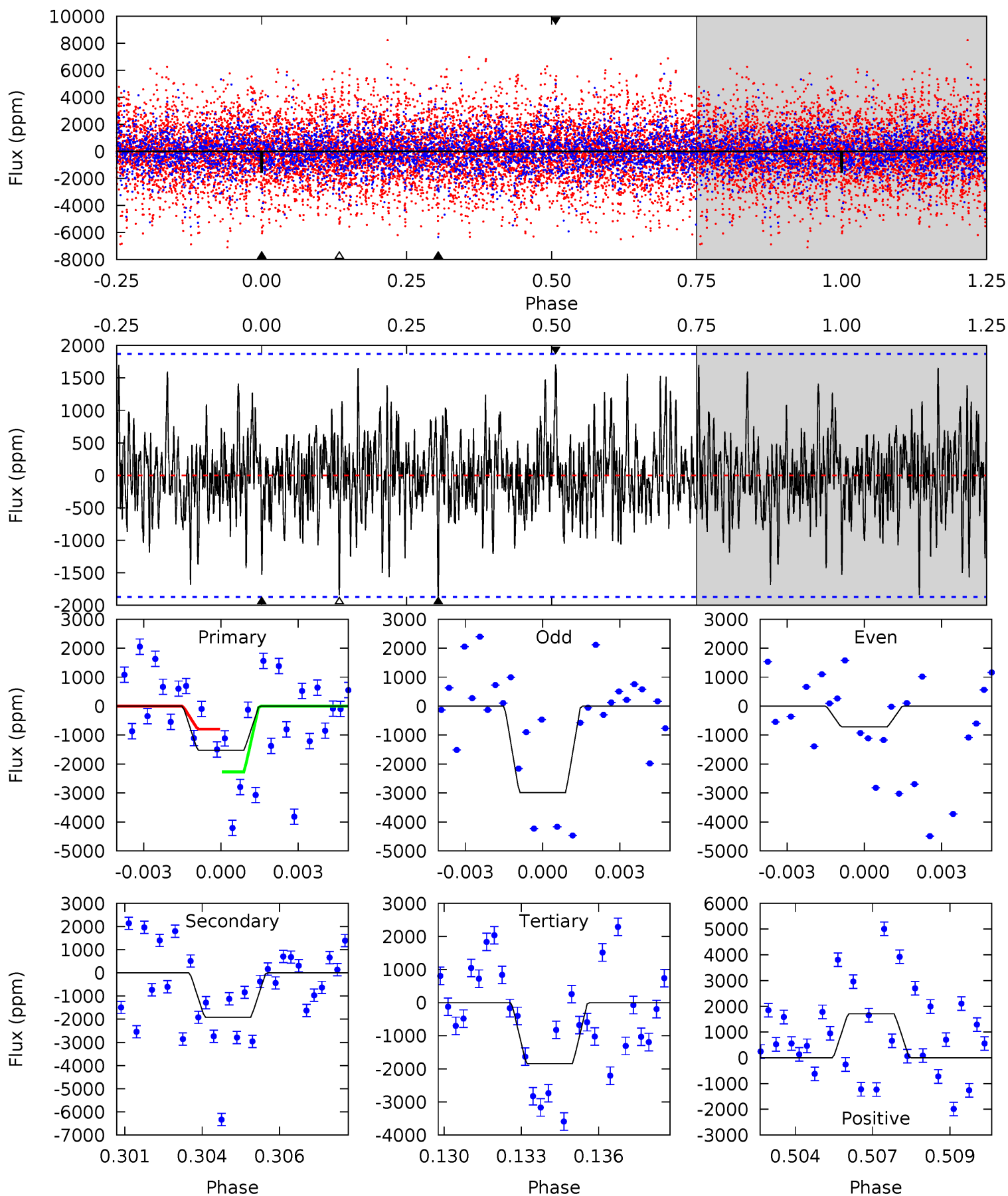
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 12.9 | 6.26 | 6.02 | 7.14 | 5.27 | 2.99 | 2.09 | 6.90 | 5.78 | 0.25 | -0.88 | 1.05 | 0.74 | 0.36 | 0.94 |



Alt Model-Shift Uniqueness Test

008264949-04, P = 42.853546 Days, E = 98.713274 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 4.31 | 5.41 | 5.21 | 4.83 | 5.29 | 3.02 | 1.41 | -0.90 | -0.51 | 0.20 | 0.58 | 3.17 | 1.08 | 0.47 | 2.10 |



Stellar Parameters For KIC 008264949

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | R (R_{\odot}) | M (M_{\odot}) | p_{\star} ($\text{g}\cdot\text{cm}^{-3}$) |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 8184^{+226}_{-368} | $3.725^{+0.440}_{-0.138}$ | $-0.040^{+0.250}_{-0.400}$ | $3.268^{+0.848}_{-1.576}$ | $2.068^{+0.347}_{-0.521}$ | $0.083^{+0.329}_{-0.034}$ |
| | +3%/-4% | +12%/-4% | +625%/-1000% | +26%/-48% | +17%/-25% | +395%/-41% |
| Source | KIC0 | 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 008264949-04 / KOI

| Detrend | Depth (ppm) | R_p (R_{\oplus}) | T_{max} (K) | T_{obs} (K) | A_{obs} |
|---------|-----------------|---------------------------|----------------------|-----------------------|-------------------|
| DV | -1721 ± 275 | $80.49^{+88.86}_{-56.18}$ | 1599^{+136}_{-204} | 3630^{+2314}_{-748} | 14^{+149}_{-11} |
| Alt. | -1914 ± 354 | $81.61^{+89.73}_{-57.11}$ | 1593^{+146}_{-196} | 3670^{+2319}_{-758} | 15^{+150}_{-11} |

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

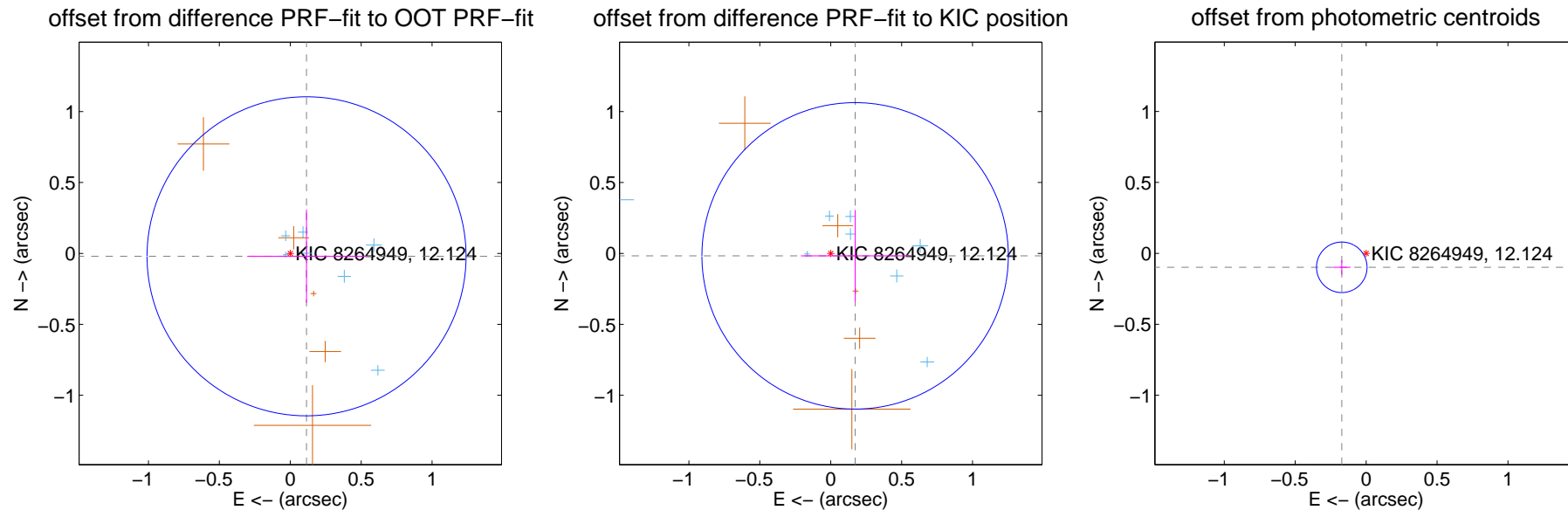
DV Centroid Data

Supplemental centroid analysis for 008264949-04. Kepler magnitude: 12.12. Transit SNR 10.16

There are 9 quarters with good PRF difference image offsets

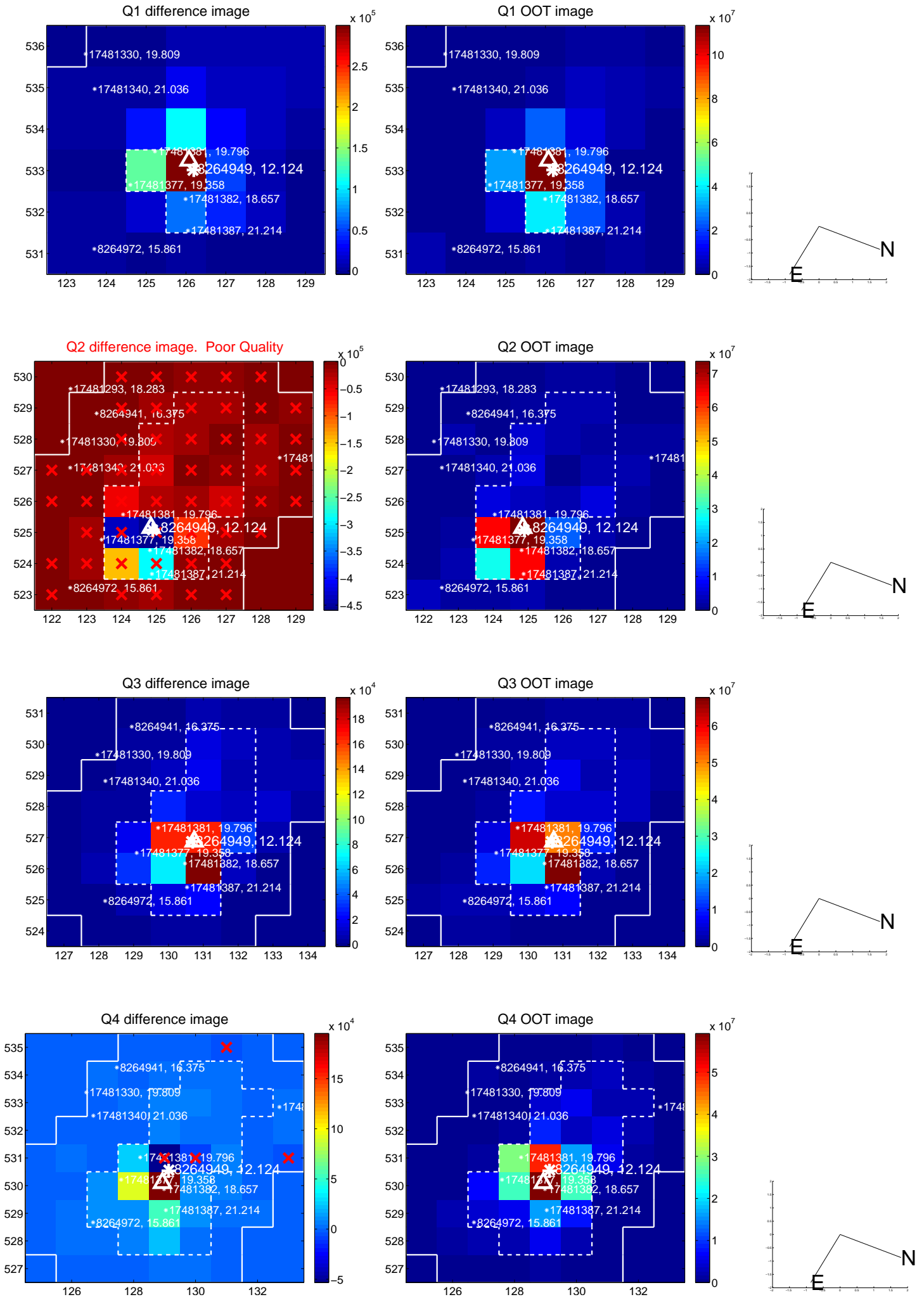
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

| | Distance in arcsec | Distance / σ | Δ RA | Δ Dec |
|---|--------------------|---------------------|--------------------|--------------------|
| PRF-fit source offset from OOT | 0.117 ± 0.375 | 0.31 | -0.115 ± 0.418 | -0.020 ± 0.328 |
| PRF-fit source offset from KIC position | 0.173 ± 0.360 | 0.48 | -0.172 ± 0.382 | -0.017 ± 0.323 |
| photometric centroid source offset | 0.20 ± 0.06 | 3.33 | 0.17 ± 0.06 | -0.10 ± 0.05 |

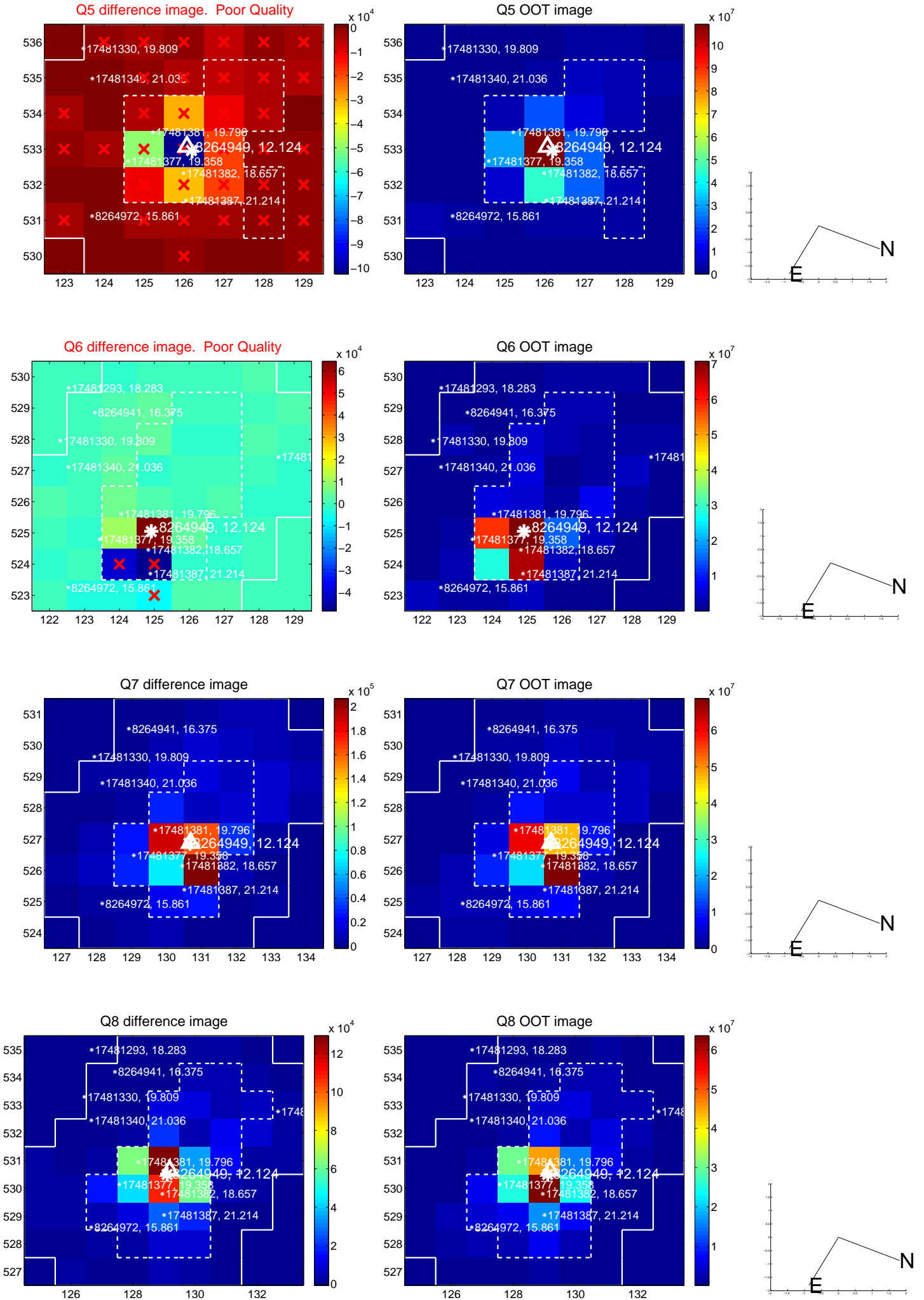


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

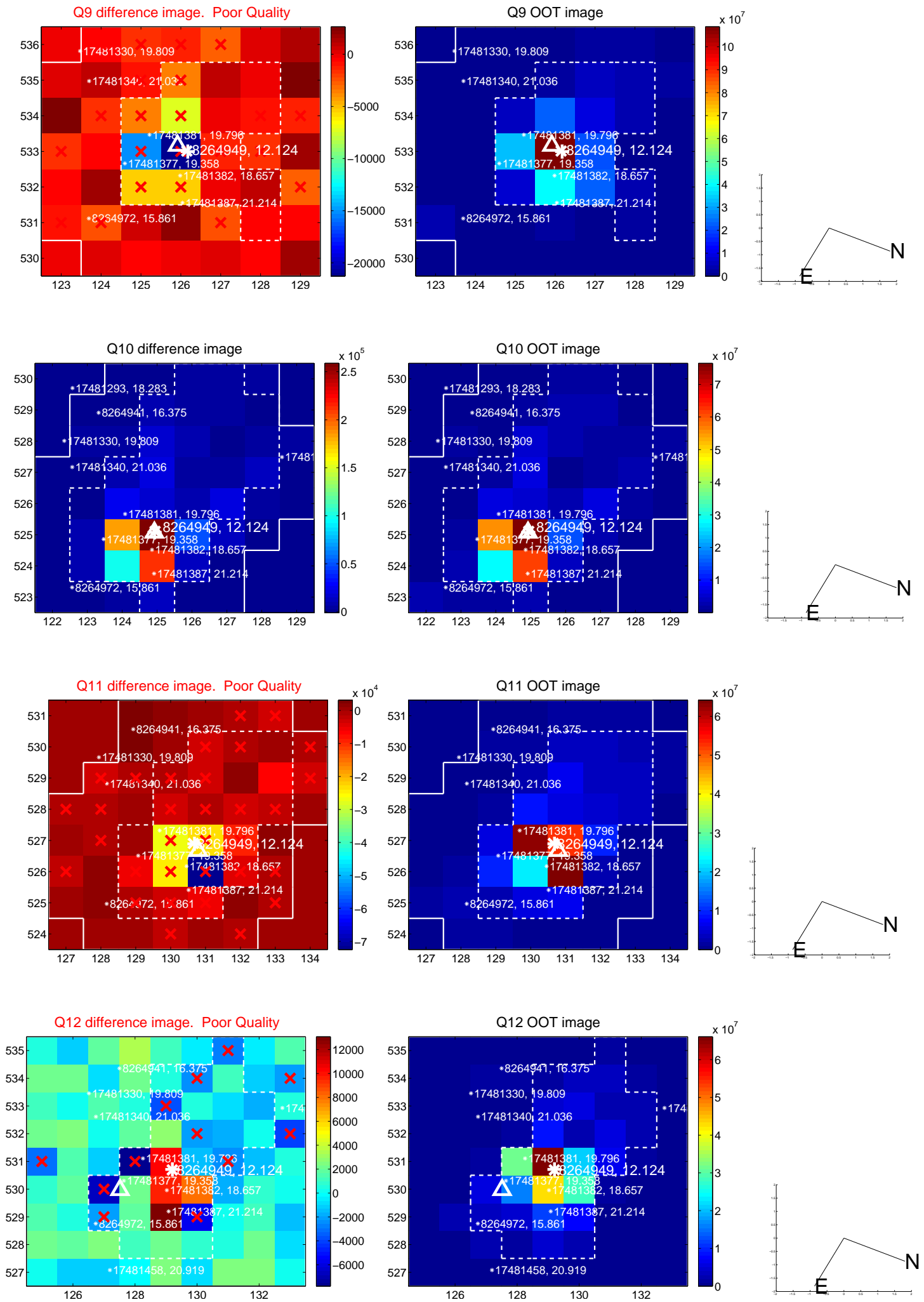
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



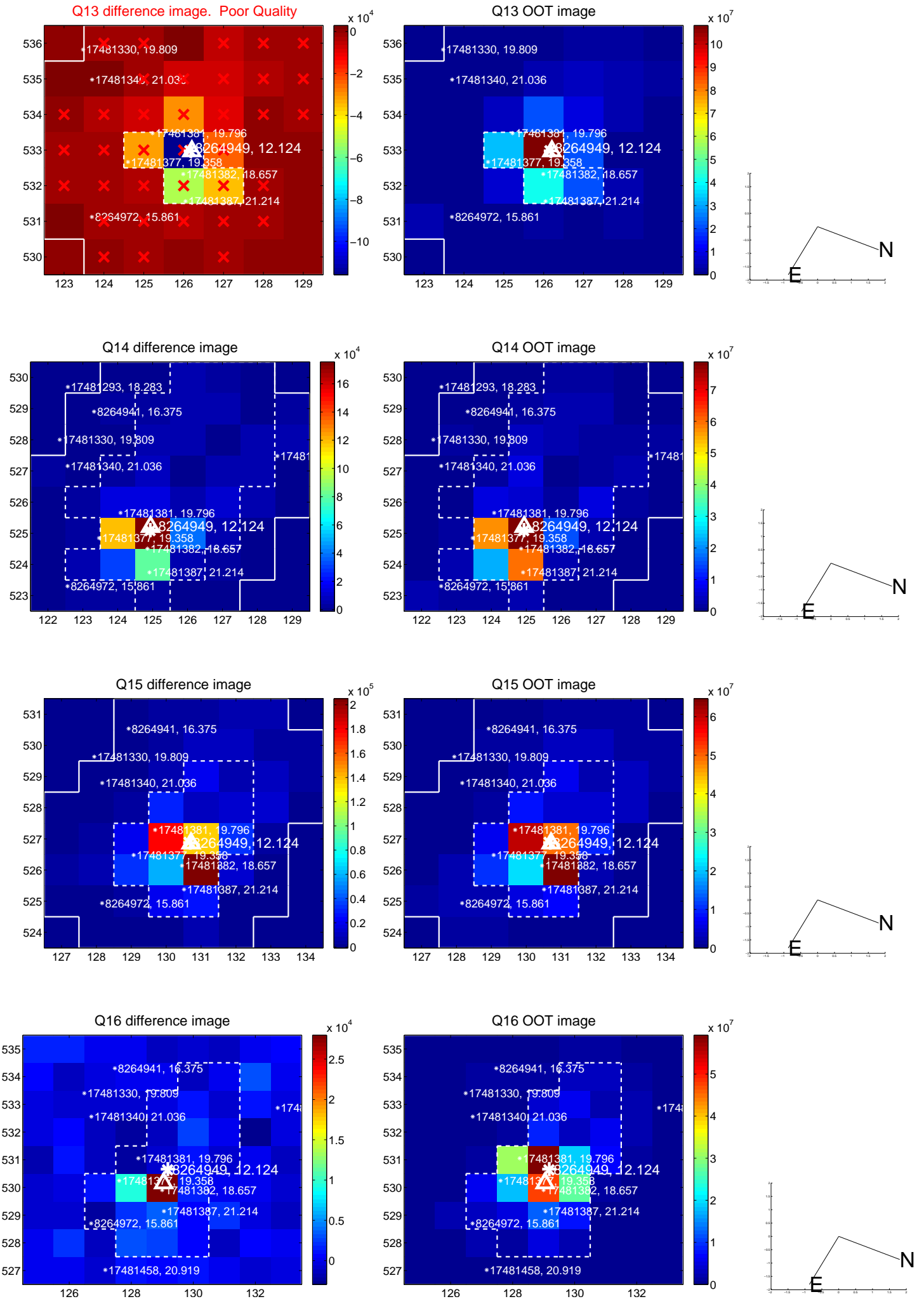
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



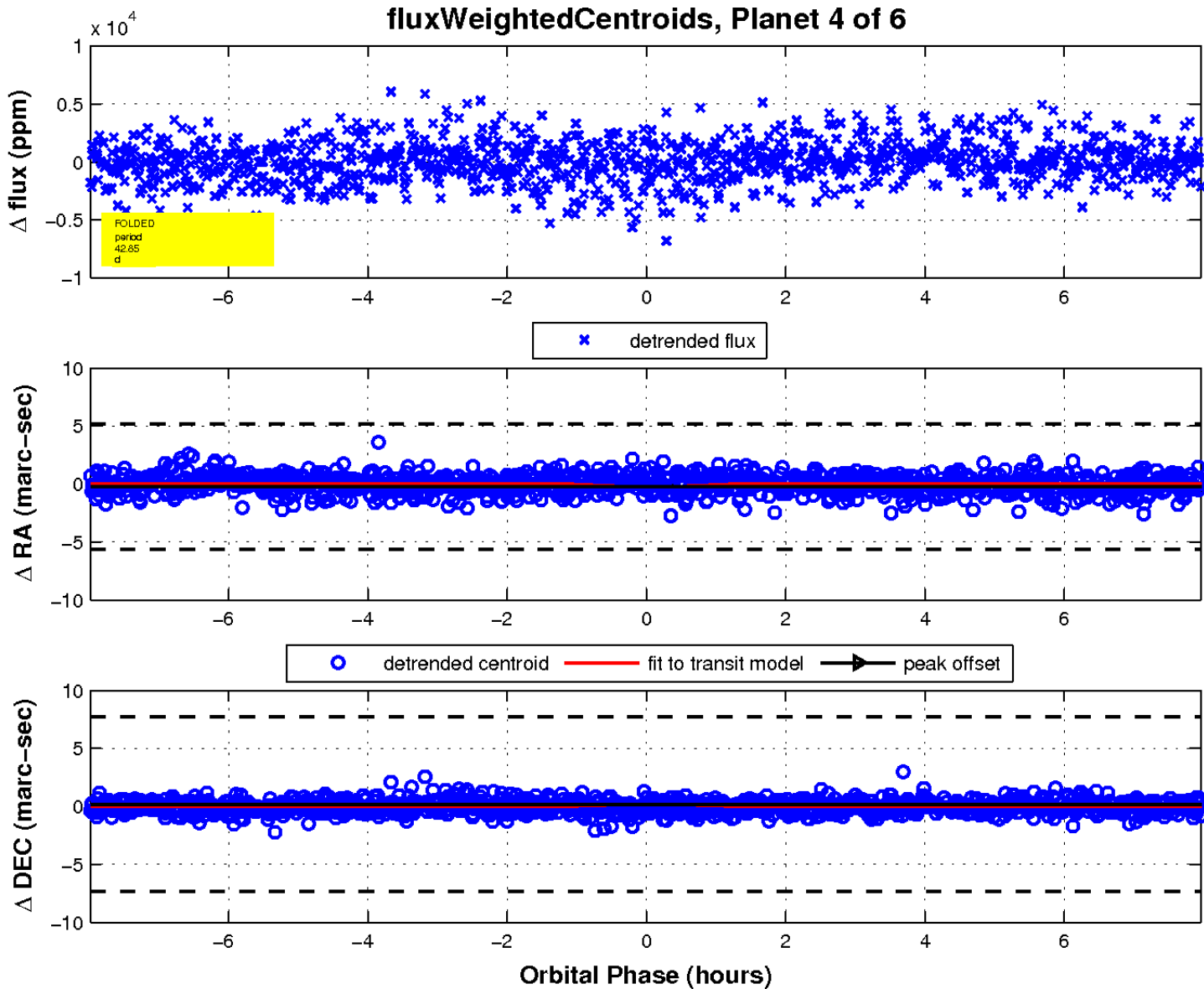
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

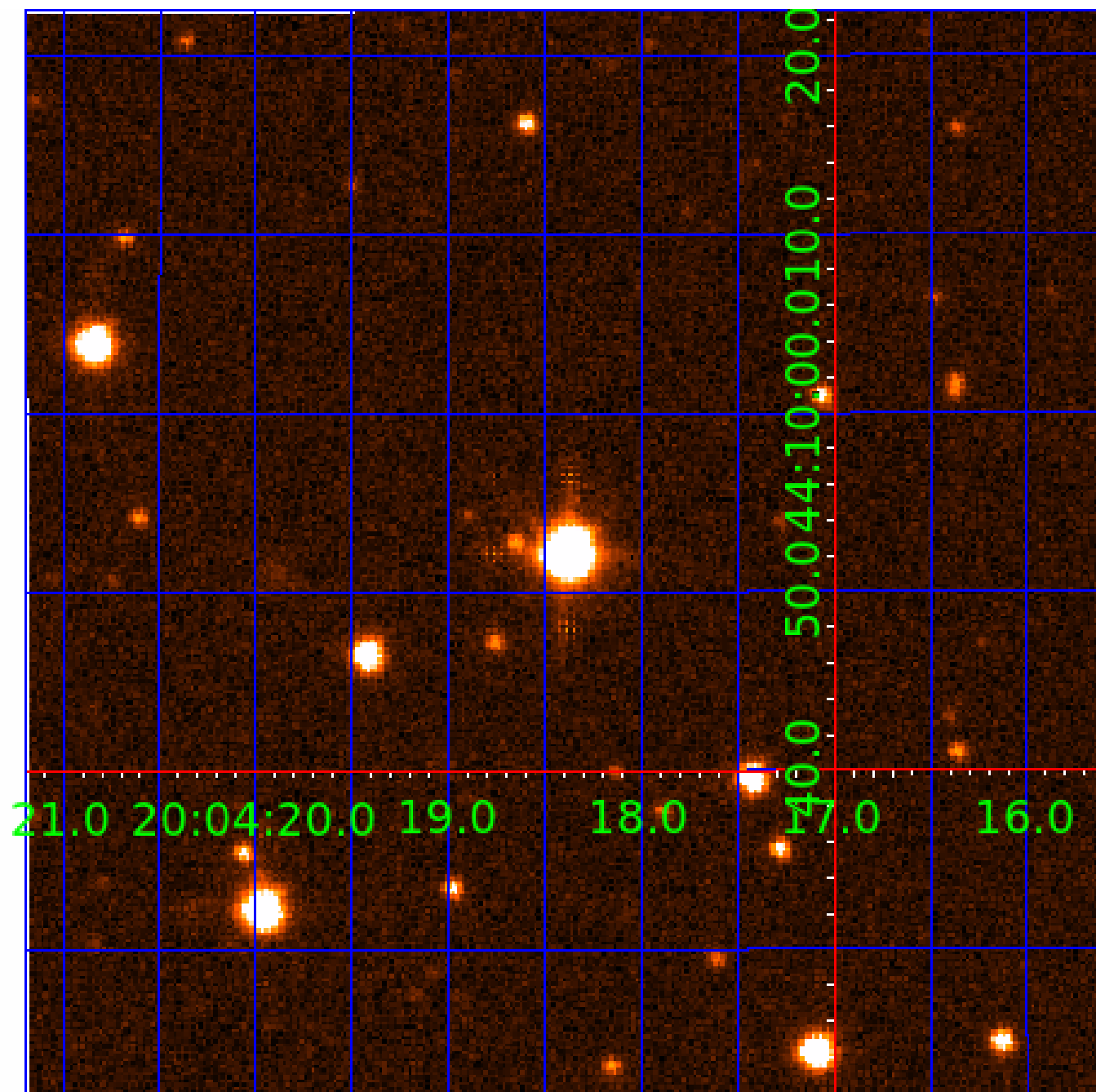
Q17 no difference image

Q17 no OOT image



UKIRT Image

Declination



KIC 008264949

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|------|------|-----------------------------|-----------------|------------------------|------------------------|
| 008264949-01 | OBS | No | 0.588553 | 131.888239 | 207.1 | 3.773 | 11.1 | 10.2 | 3.27 | 8184 | 5.04 | 139925.53 |
| 008264949-03 | OBS | No | 76.146727 | 136.878381 | 4635.0 | 1.249 | 11.9 | 10.0 | 3.27 | 8184 | 23.09 | 213.83 |
| 008264949-04 | OBS | No | 42.853370 | 141.594977 | 3488.1 | 2.663 | 10.8 | 10.2 | 3.27 | 8184 | 34.24 | 460.22 |
| 008264949-05 | OBS | No | 135.188378 | 156.313059 | 4931.5 | 2.578 | 9.7 | 9.6 | 3.27 | 8184 | 24.43 | 99.47 |
| 008264949-06 | OBS | No | 34.868578 | 162.376626 | 374.5 | 1.500 | 9.7 | -1.0 | 3.27 | 8184 | 6.42 | 605.85 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|--|
| 008264949-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT |
| 008264949-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT |
| 008264949-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT |
| 008264949-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS |
| 008264949-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS |

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

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

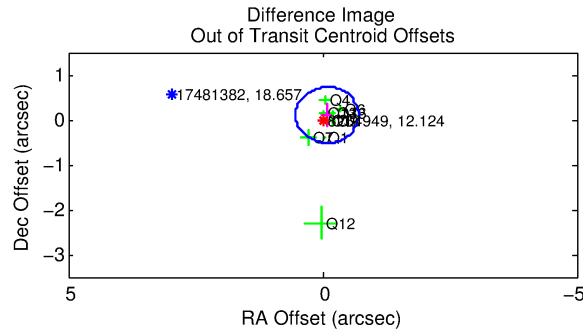
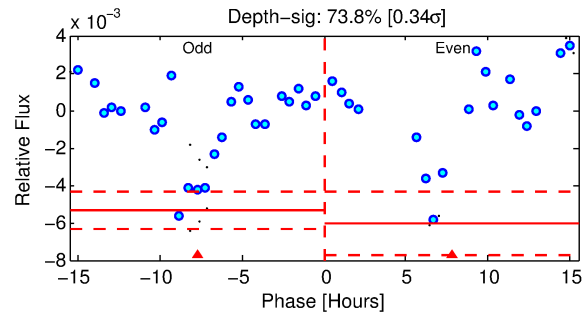
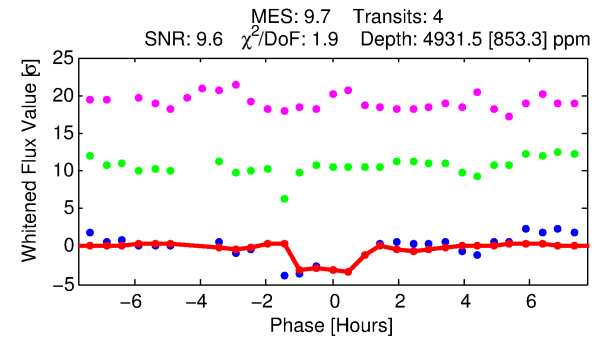
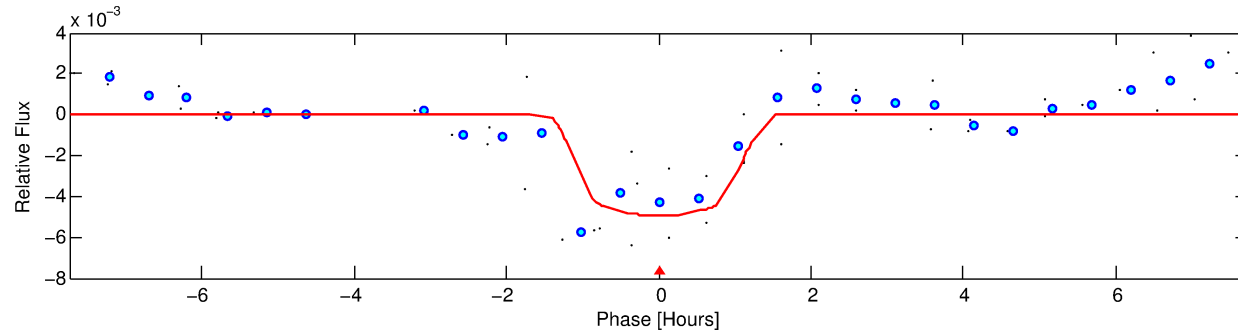
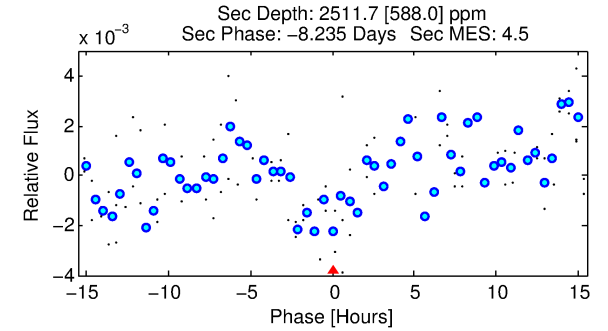
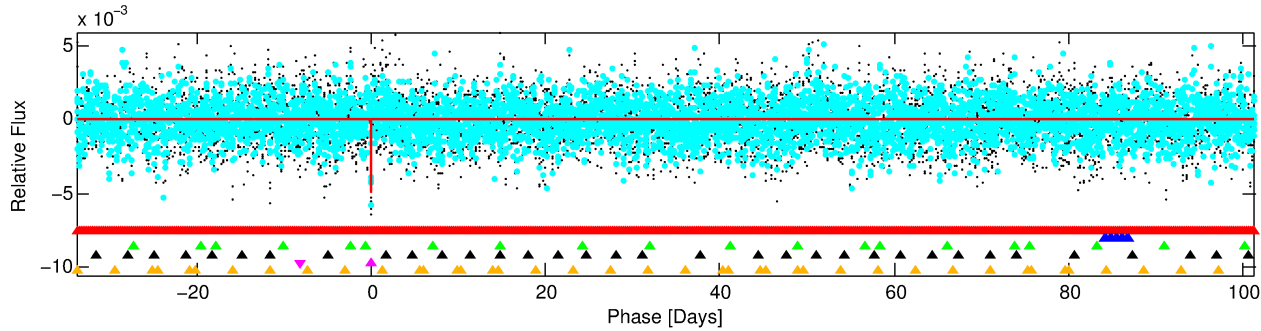
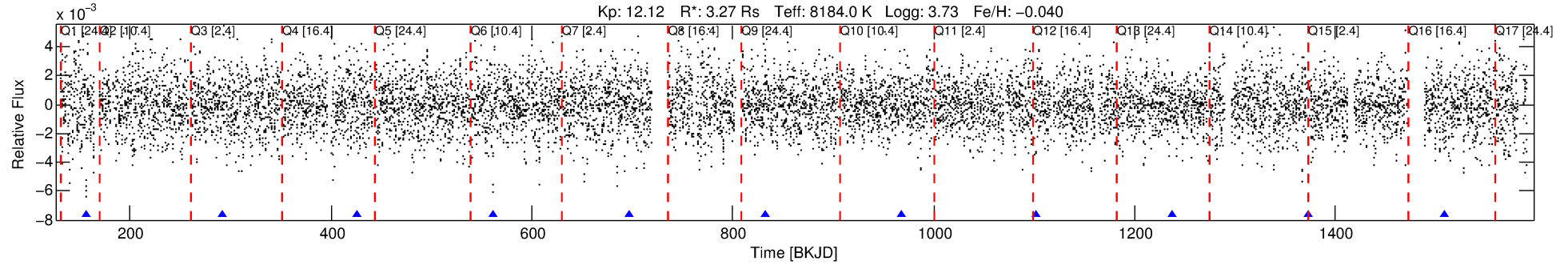
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264949-05

No Significant Match Found

DV One-Page Summary

KIC: 8264949 Candidate: 5 of 6 Period: 135.188 d



DV Fit Results:

Period = 135.18838 [0.00097] d
Epoch = 156.3131 [0.0064] BKJD
Rp/R* = 0.0685 [0.0437]
a/R* = 336.63 [1183.31]
b = 0.66 [3.01]
Seff = 99.47 [76.53]
Teq = 805 [155] K
Rp = 24.43 [19.55] Re
a = 0.6569 [0.3063] AU
Ag = 999.19 [1497.04] [0.67 σ]
Teffp = 7000 [2293] K [2.69 σ]

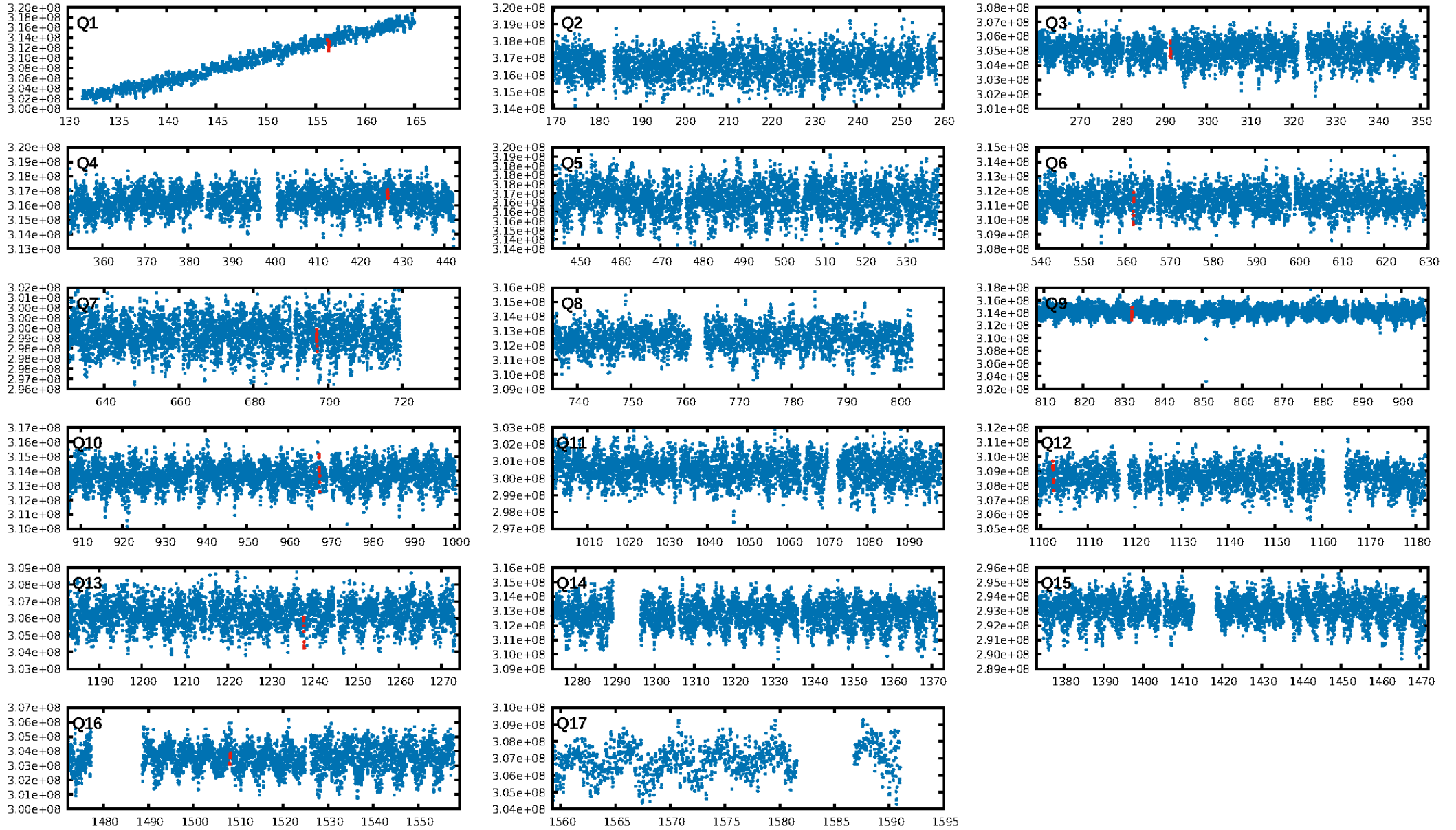
DV Diagnostic Results:

ShortPeriod-sig: 92.9% [1.80 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 13.0%
ModelChiSquareGof-sig: 99.9%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -2.98
Centroid-sig: 15.0%
Centroid-so: 0.105 arcsec [1.97 σ]
OotOffset-rm: 0.134 arcsec [0.65 σ]
KicOffset-rm: 0.186 arcsec [0.77 σ]
OotOffset-st: 2/1/3/3 [9]
KicOffset-st: 2/1/3/3 [9]
DiffImageQuality-fgm: 0.78 [7/9]
DiffImageOverlap-fno: 0.00 [0/9]

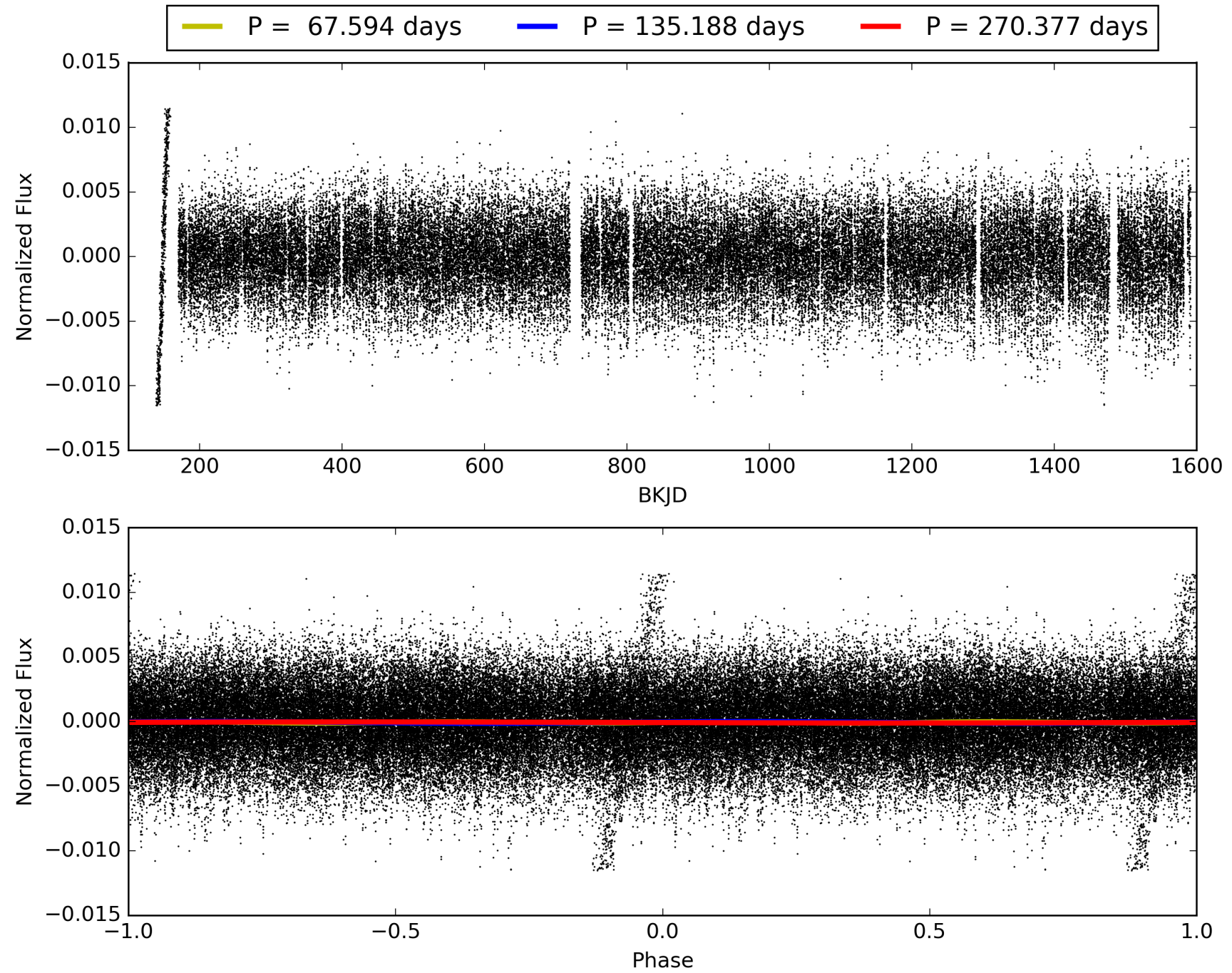
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:49:54 Z

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

TCE 008264949-05, PDC Light Curves

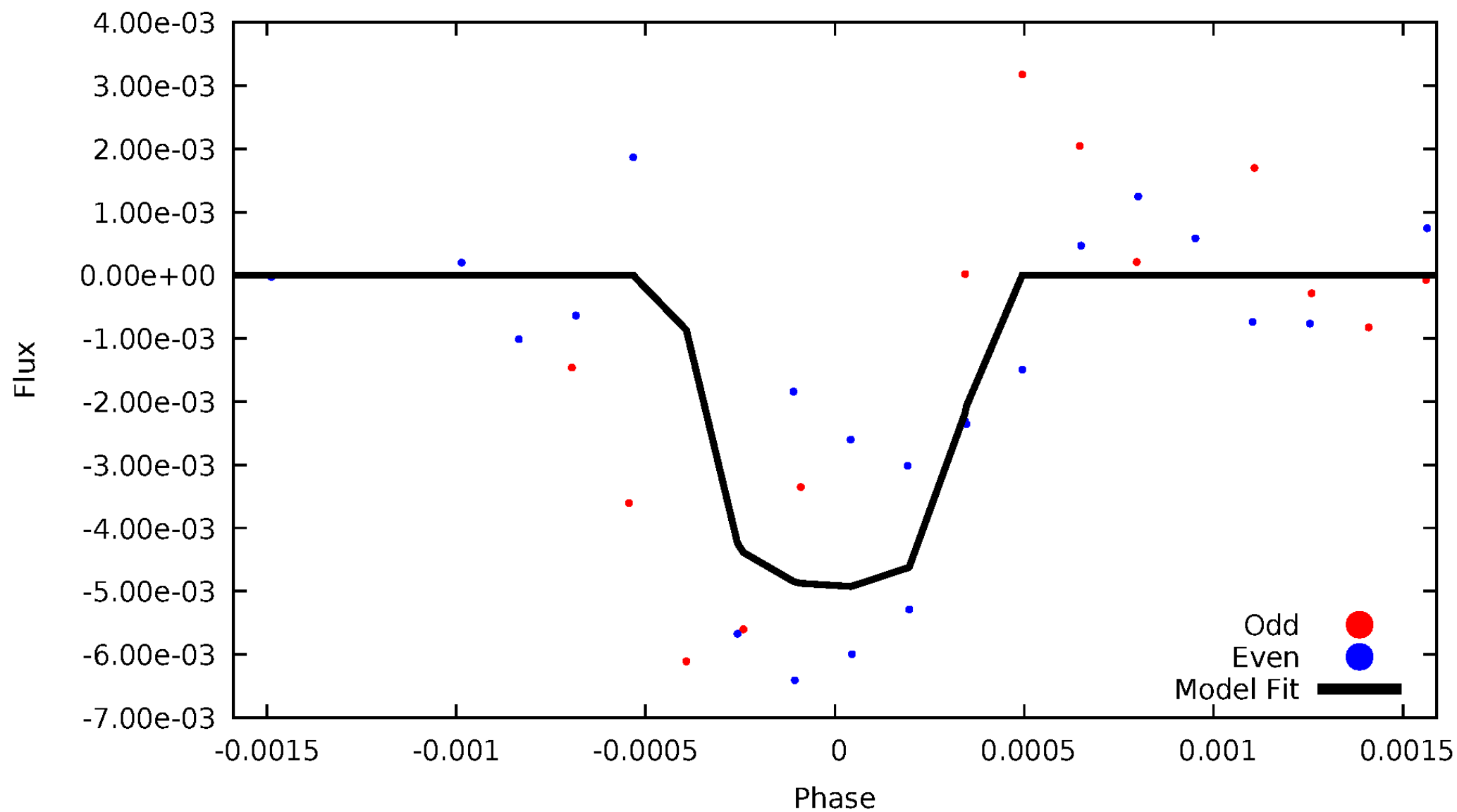


TCE 008264949-05



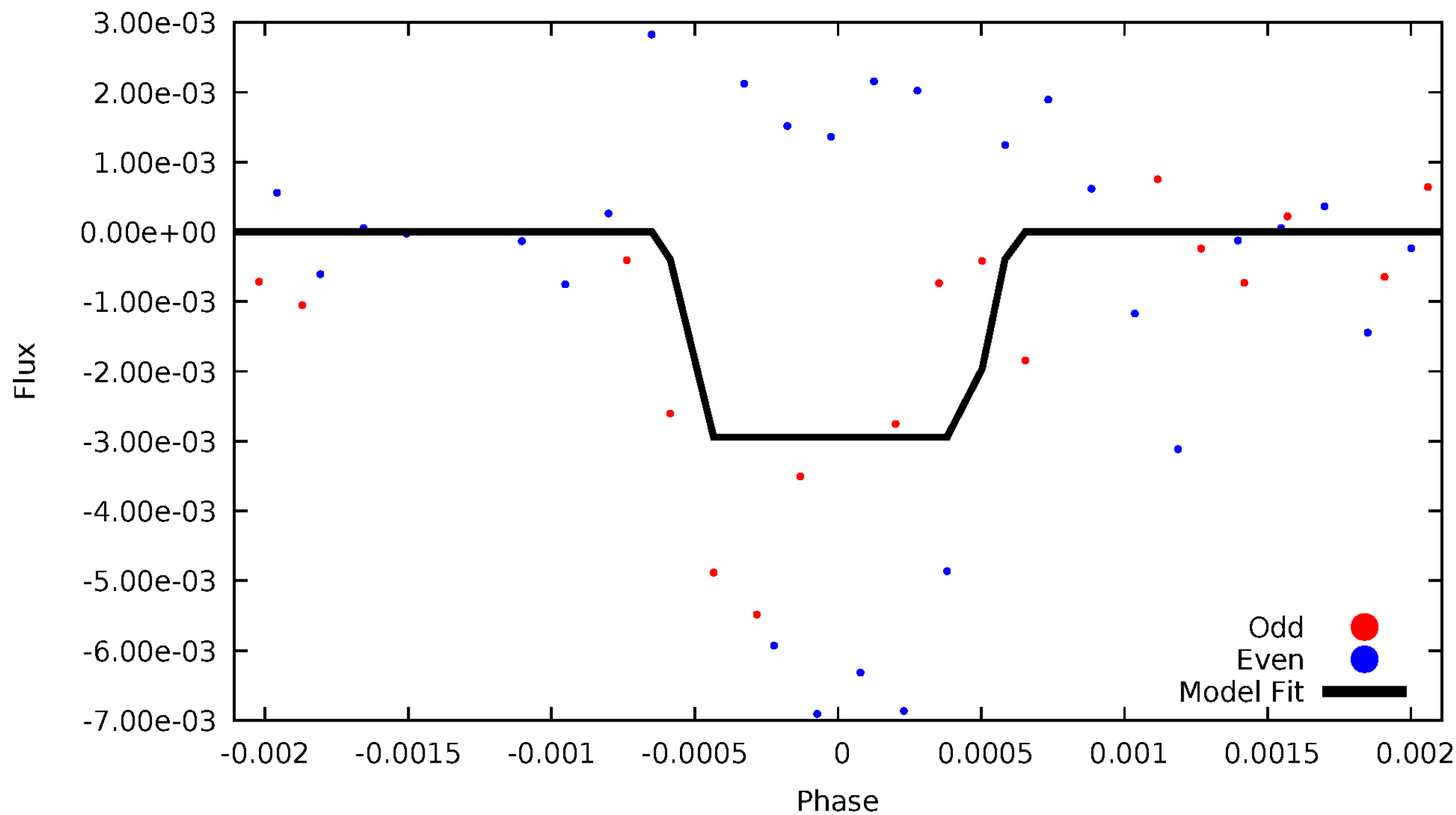
DV Odd/Even

TCE 008264949-05



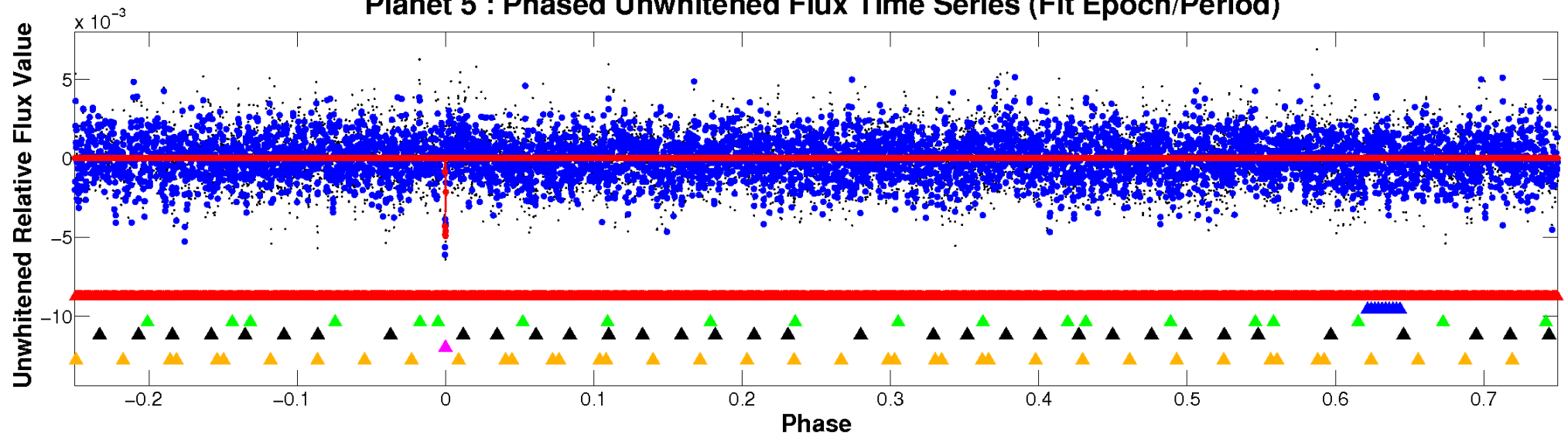
ALT Odd/Even

TCE 008264949-05

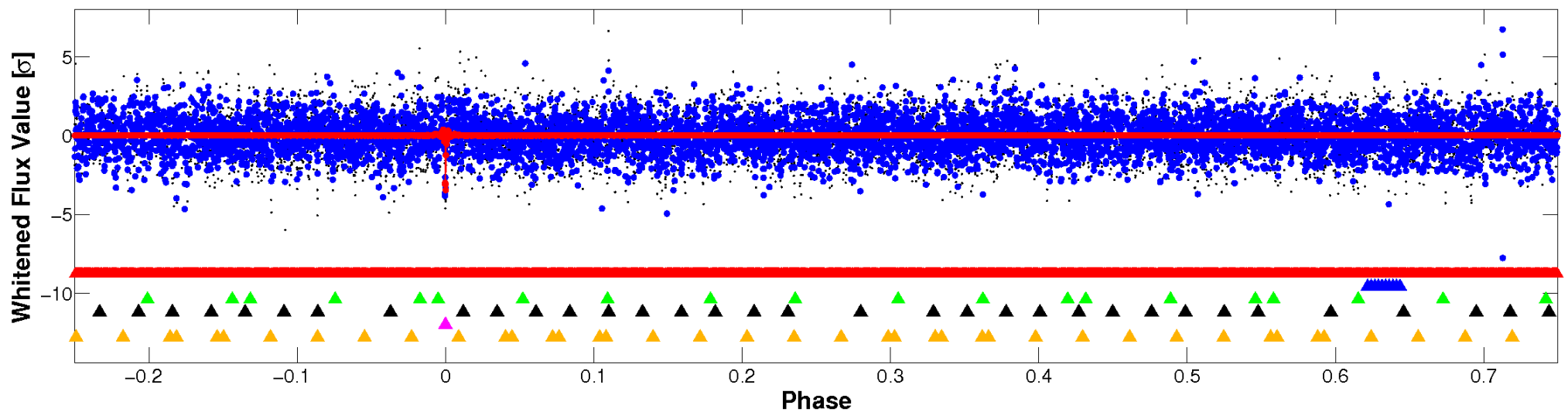


Non-Whitened Vs. Whitened Light Curve

Planet 5 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

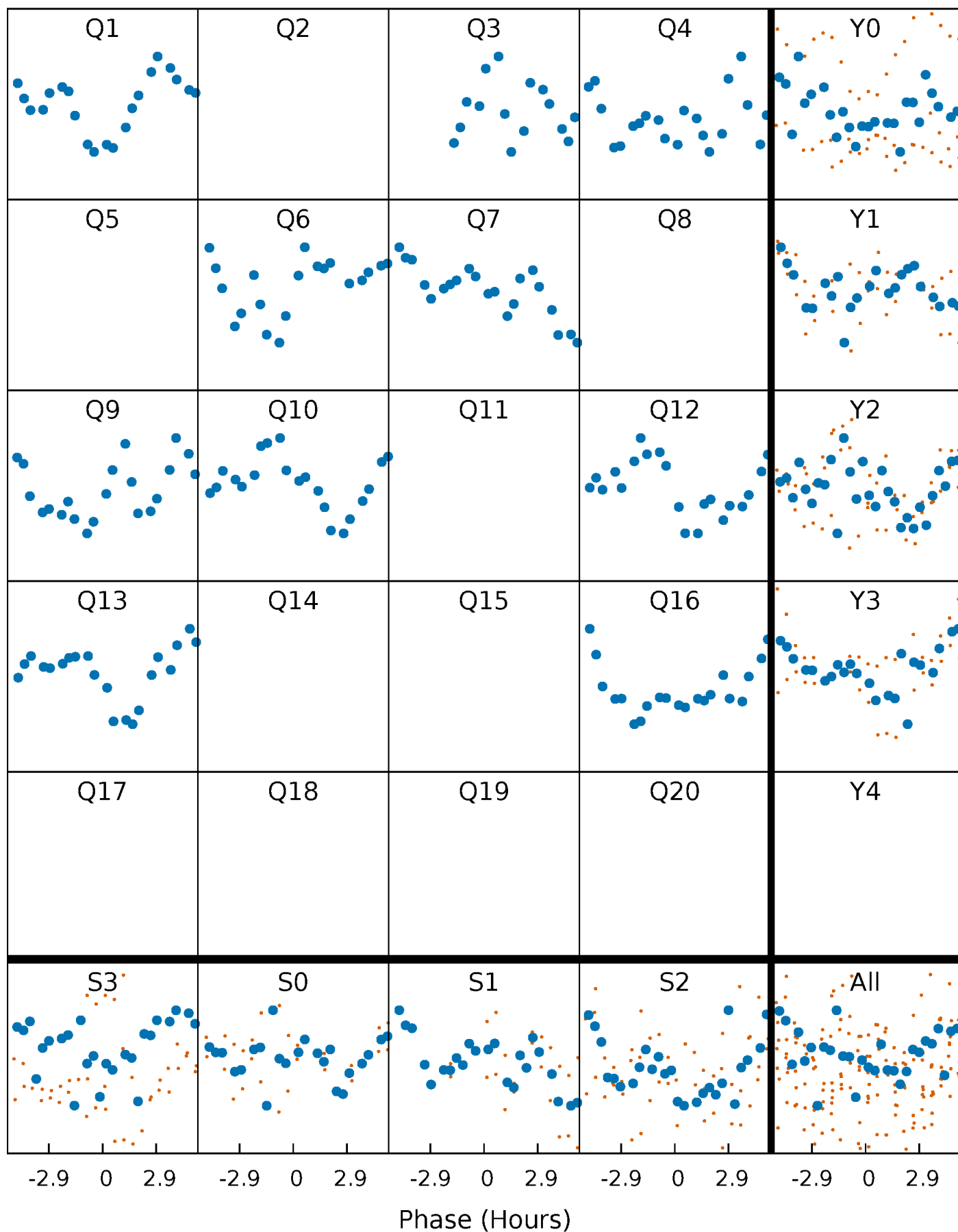


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



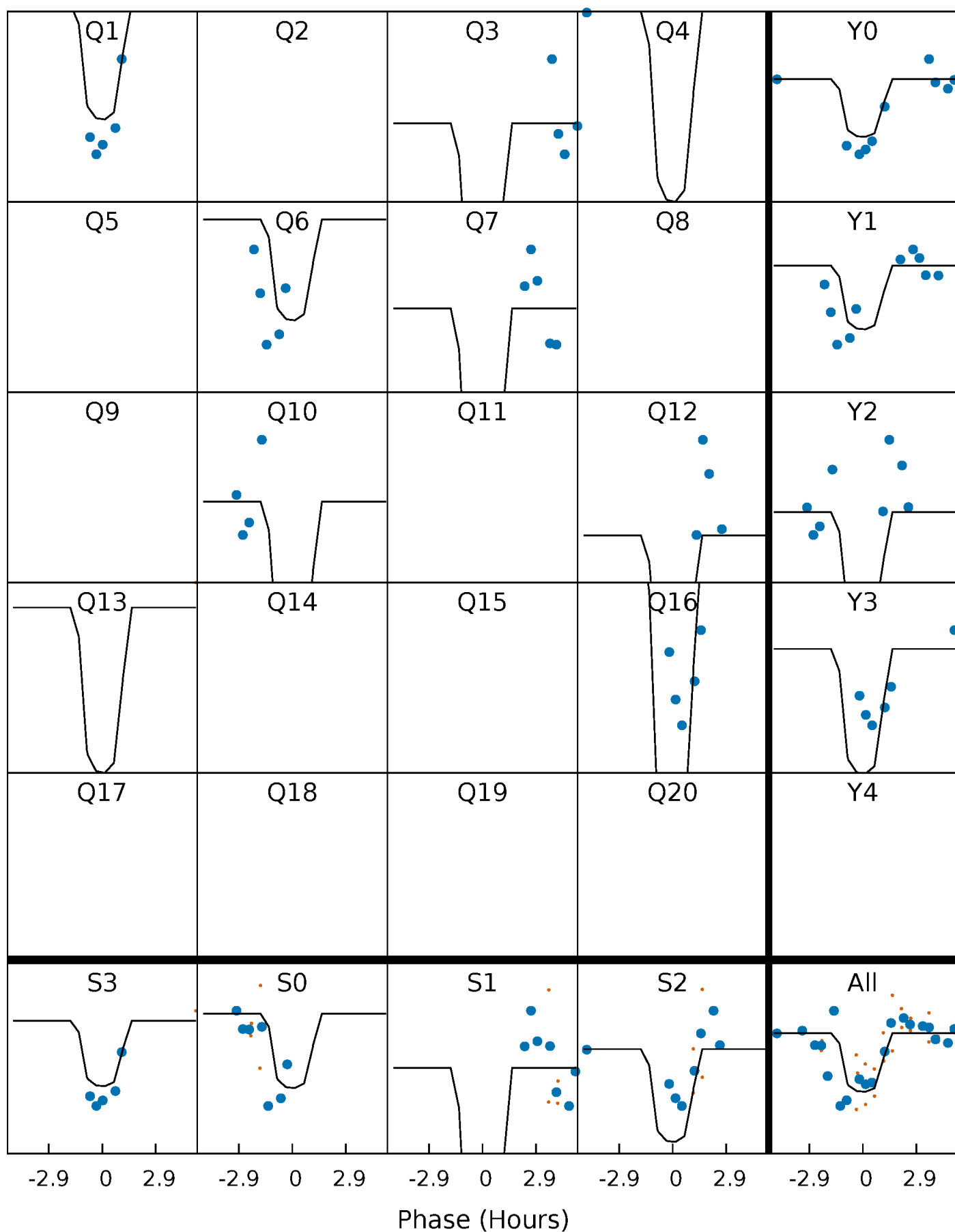
PDC Quarter-Phased Transit Curves

TCE 008264949-05 P=135.188378 Days $T_0=156.313059$ (BKJD)



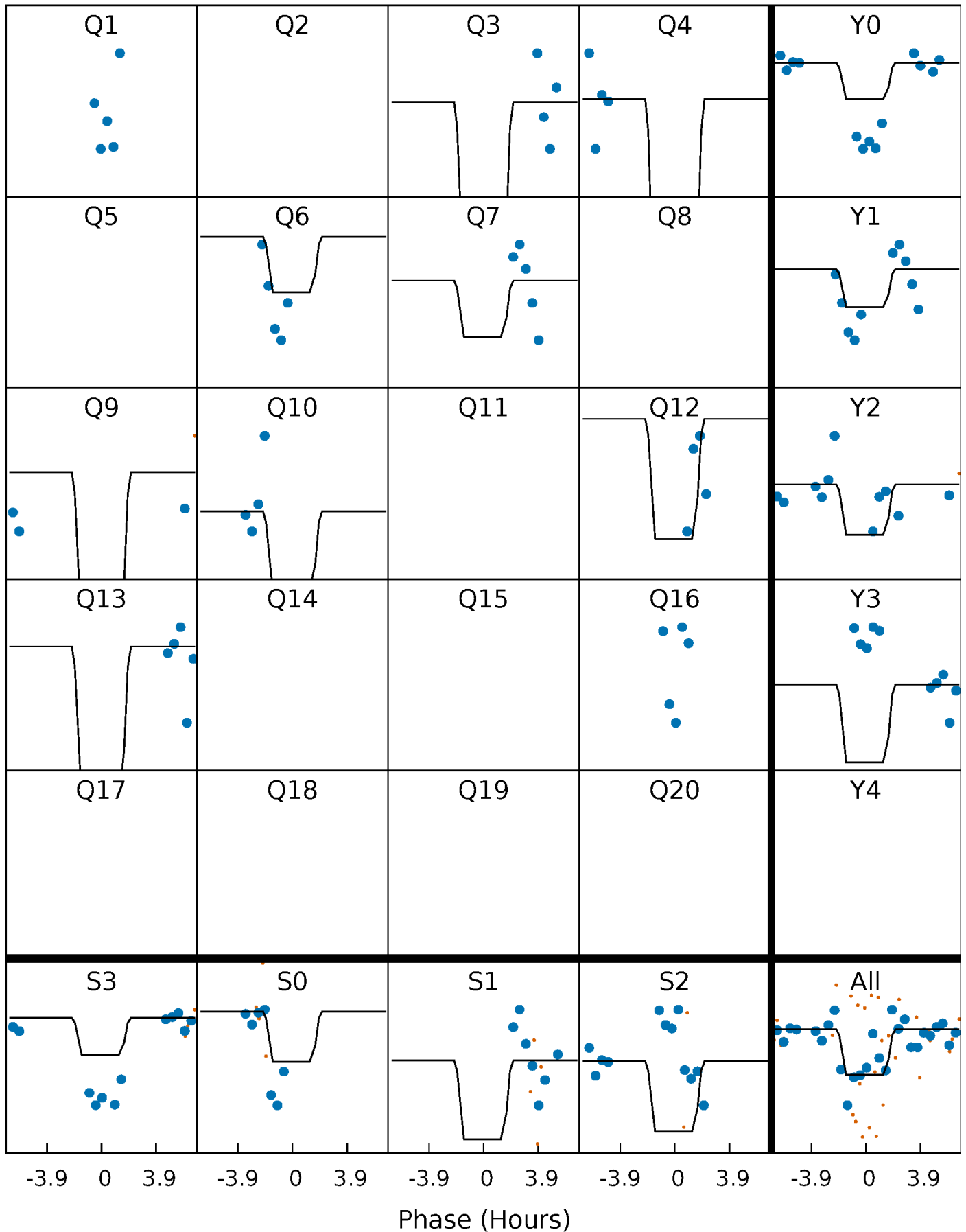
DV Quarter-Phased Transit Curves

TCE 008264949-05 P=135.188378 Days $T_0=156.313059$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

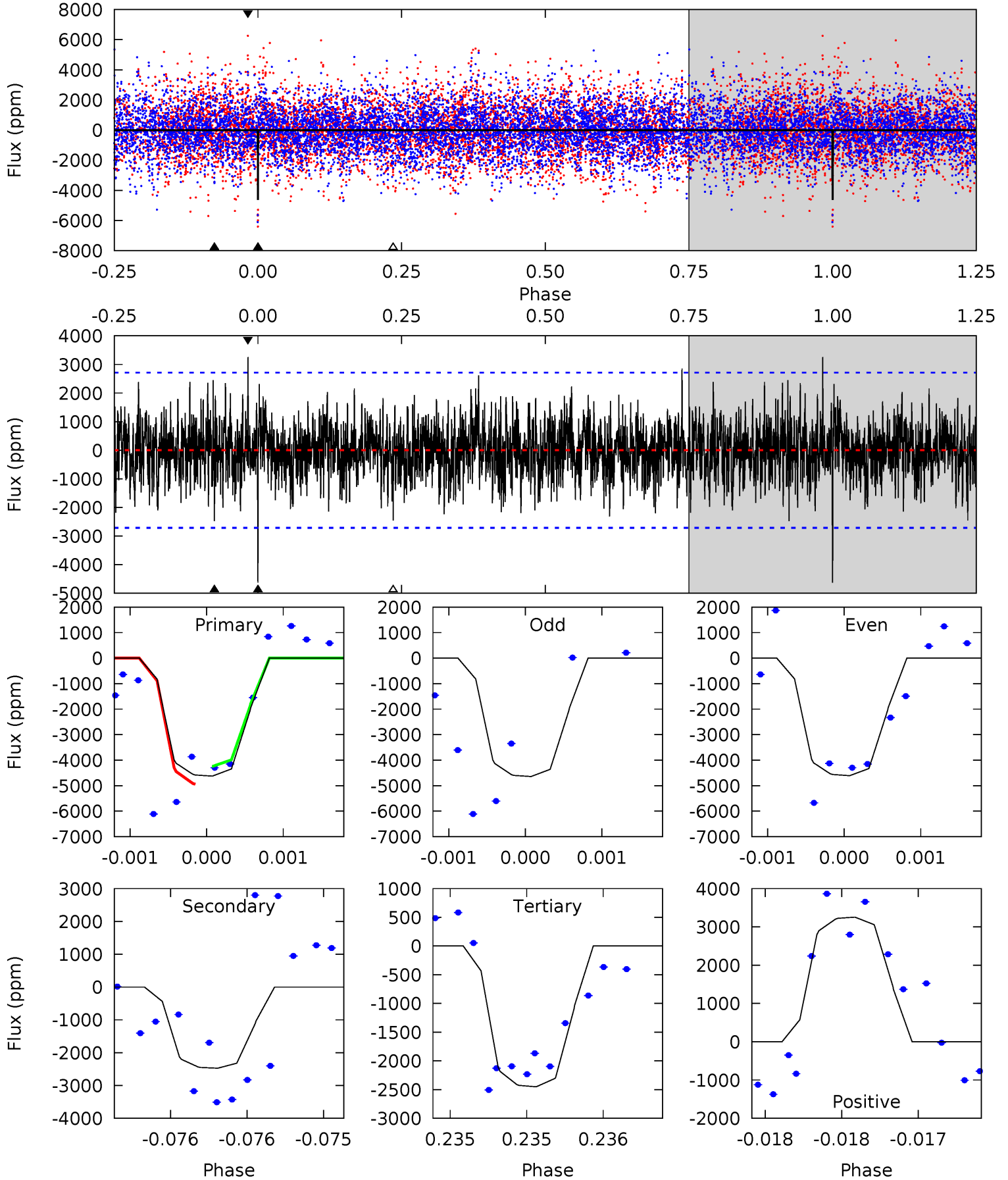
TCE 008264949-05 P=135.191781 Days $T_0=156.308526$ (BKJD)



DV Model-Shift Uniqueness Test

008264949-05, P = 135.188378 Days, E = 21.124681 Days

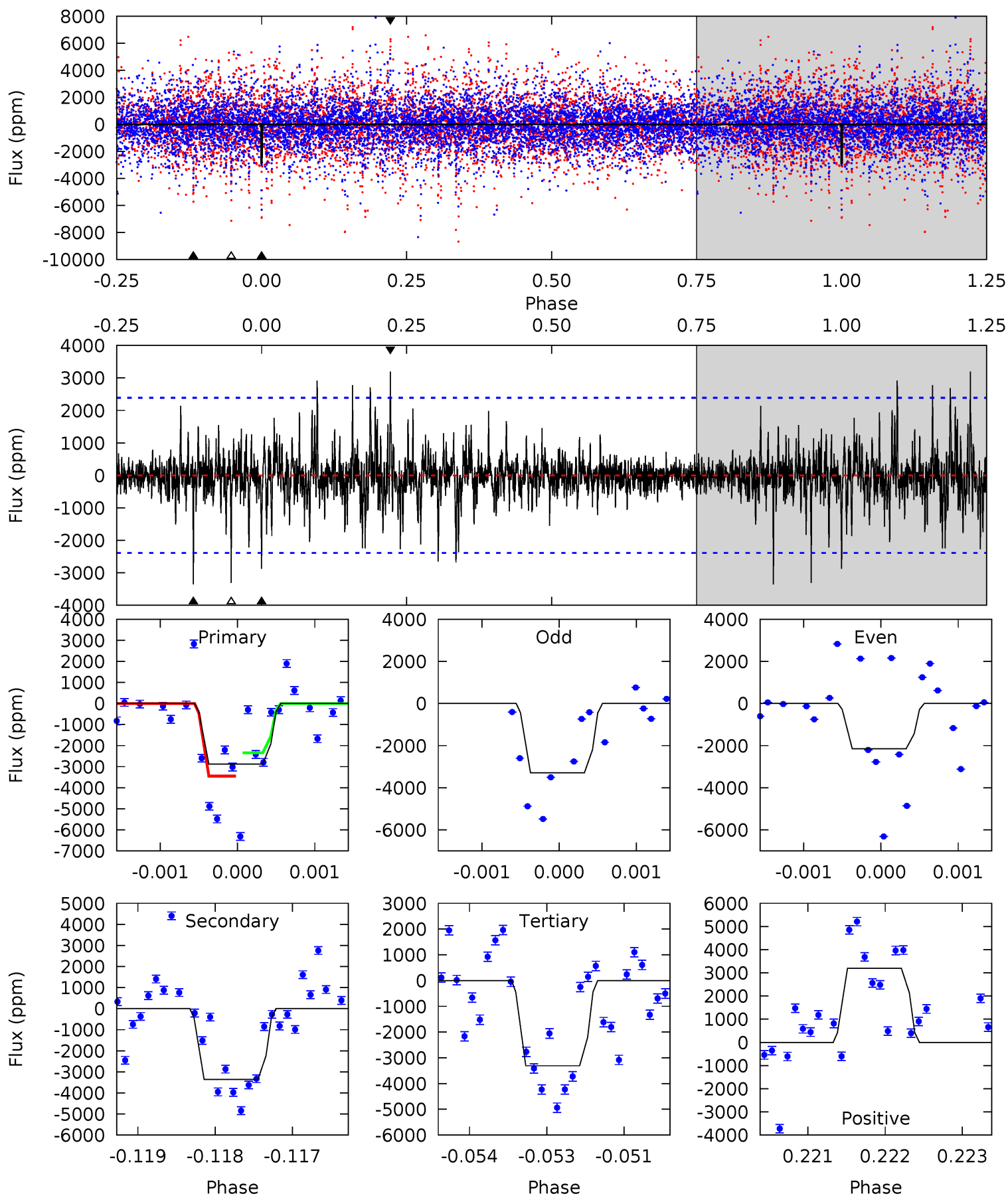
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 9.44 | 5.05 | 5.00 | 6.65 | 5.54 | 3.43 | 1.59 | 4.44 | 2.80 | 0.05 | -1.60 | 0.03 | 0.90 | 0.41 | 0.70 |



Alt Model-Shift Uniqueness Test

008264949-05, $P = 135.191781$ Days, $E = 21.116745$ Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 6.52 | 7.61 | 7.50 | 7.24 | 5.42 | 3.25 | 1.33 | -0.98 | -0.72 | 0.11 | 0.37 | 1.28 | 0.85 | 0.49 | 1.26 |



Stellar Parameters For KIC 008264949

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | R (R_{\odot}) | M (M_{\odot}) | p_{\star} ($\text{g}\cdot\text{cm}^{-3}$) |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 8184^{+226}_{-368} | $3.725^{+0.440}_{-0.138}$ | $-0.040^{+0.250}_{-0.400}$ | $3.268^{+0.848}_{-1.576}$ | $2.068^{+0.347}_{-0.521}$ | $0.083^{+0.329}_{-0.034}$ |
| | +3%/-4% | +12%/-4% | +625%/-1000% | +26%/-48% | +17%/-25% | +395%/-41% |
| Source | KIC0 | 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 008264949-05 / KOI

| Detrend | Depth (ppm) | R_p (R_{\oplus}) | T_{max} (K) | T_{obs} (K) | A_{obs} |
|---------|-----------------|---------------------------|---------------------|------------------------|-------------------------|
| DV | -2473 ± 490 | $22.51^{+15.95}_{-12.65}$ | 1097^{+87}_{-124} | 6739^{+5093}_{-1401} | 1196^{+5126}_{-795} |
| Alt. | -3354 ± 441 | $19.11^{+14.51}_{-11.80}$ | 1089^{+98}_{-118} | 7985^{+8542}_{-1951} | 2104^{+12871}_{-1403} |

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 $A_{obs} \gg 1.0$

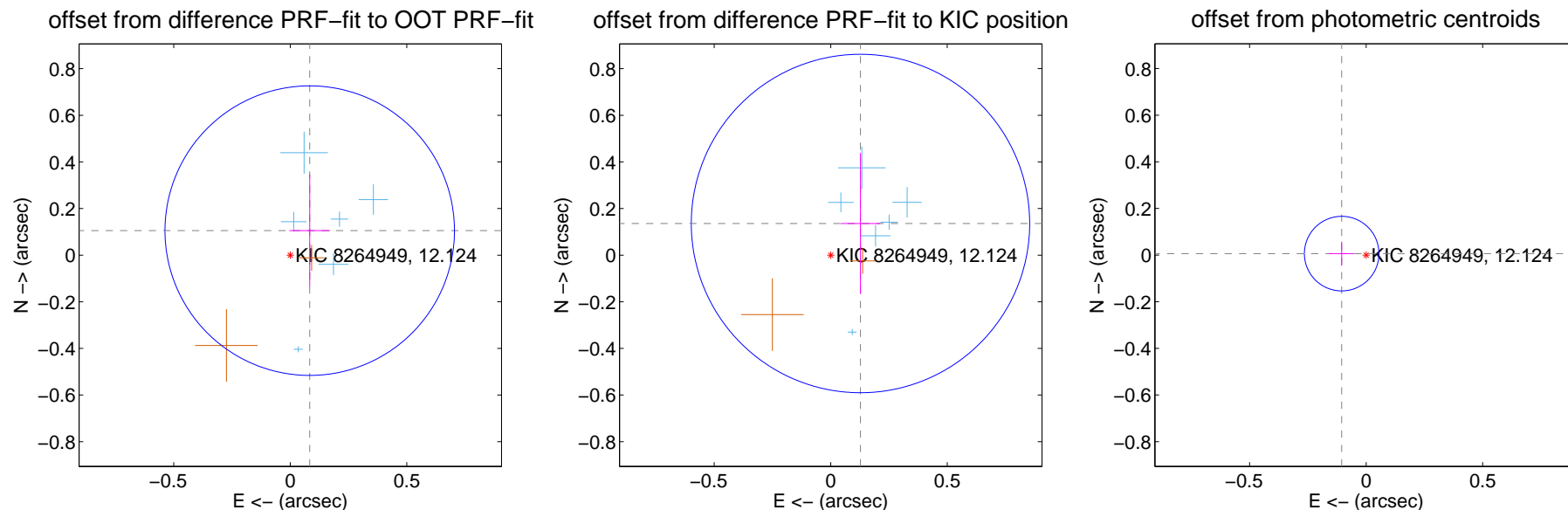
DV Centroid Data

Supplemental centroid analysis for 008264949-05. Kepler magnitude: 12.12. Transit SNR 9.64

There are 7 quarters with good PRF difference image offsets

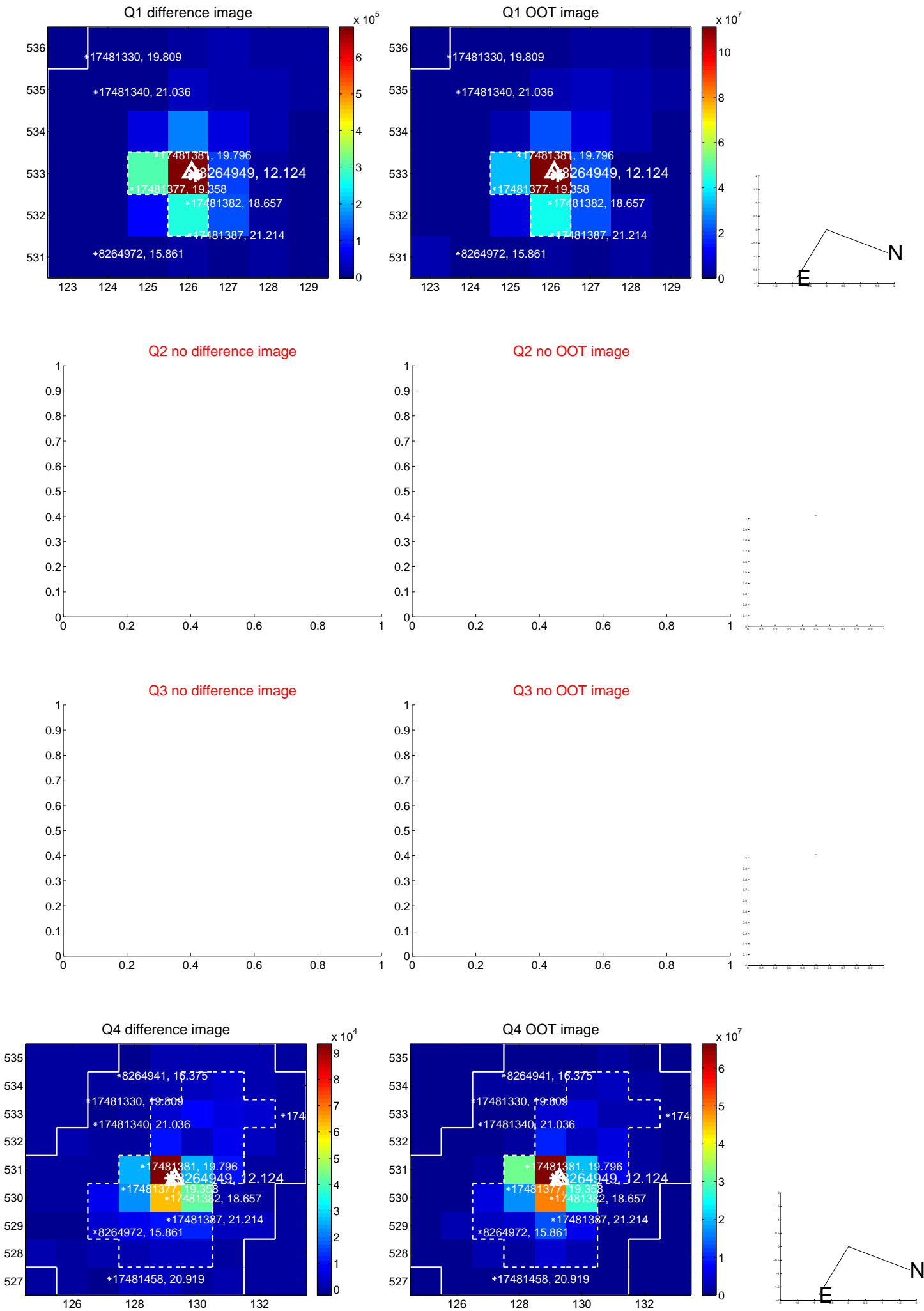
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

| | Distance in arcsec | Distance / σ | Δ RA | Δ Dec |
|---|--------------------|---------------------|--------------------|-------------------|
| PRF-fit source offset from OOT | 0.134 ± 0.207 | 0.65 | -0.083 ± 0.087 | 0.105 ± 0.240 |
| PRF-fit source offset from KIC position | 0.186 ± 0.242 | 0.77 | -0.128 ± 0.085 | 0.136 ± 0.302 |
| photometric centroid source offset | 0.11 ± 0.05 | 1.97 | 0.10 ± 0.05 | 0.01 ± 0.05 |



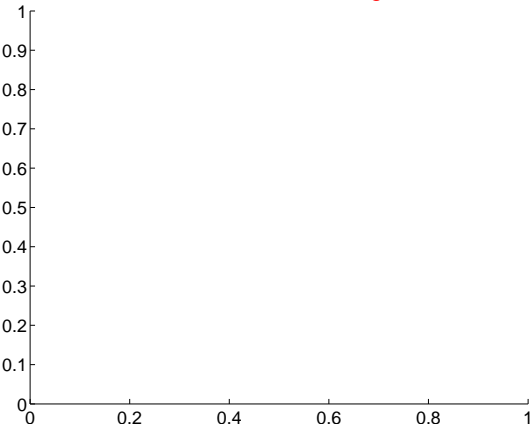
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

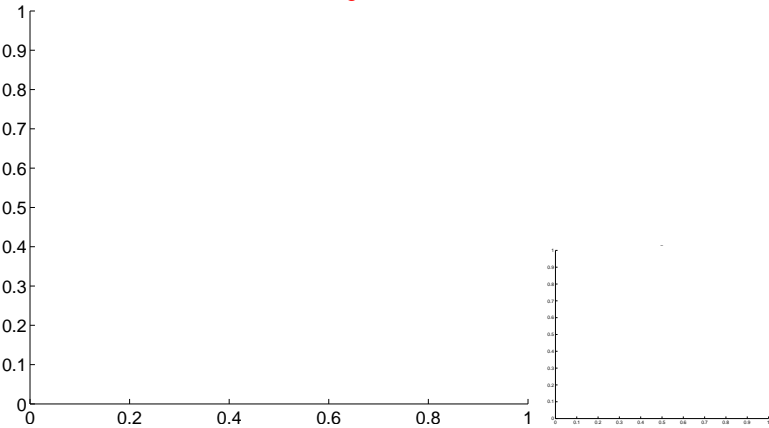


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

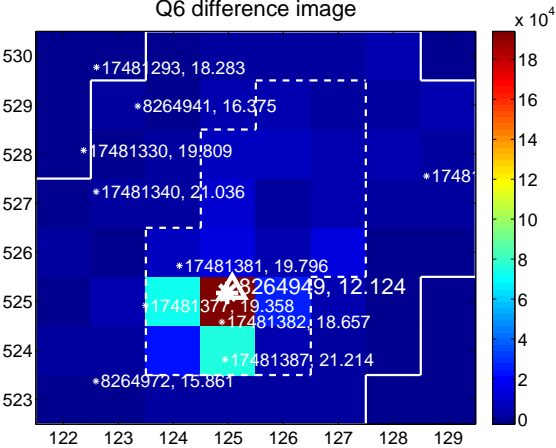
Q5 no difference image



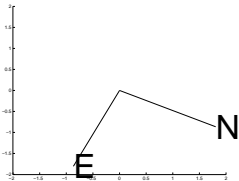
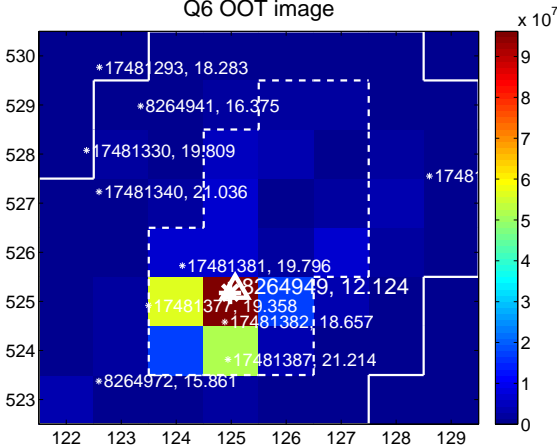
Q5 no OOT image



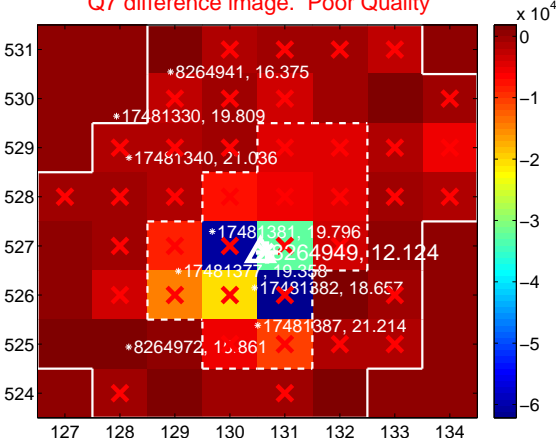
Q6 difference image



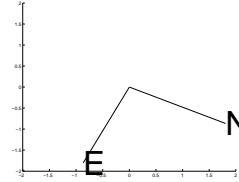
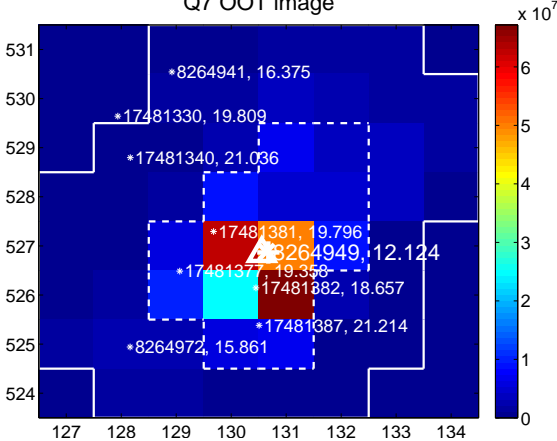
Q6 OOT image



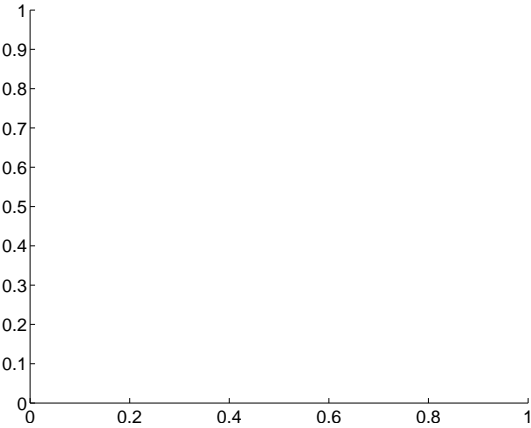
Q7 difference image. Poor Quality



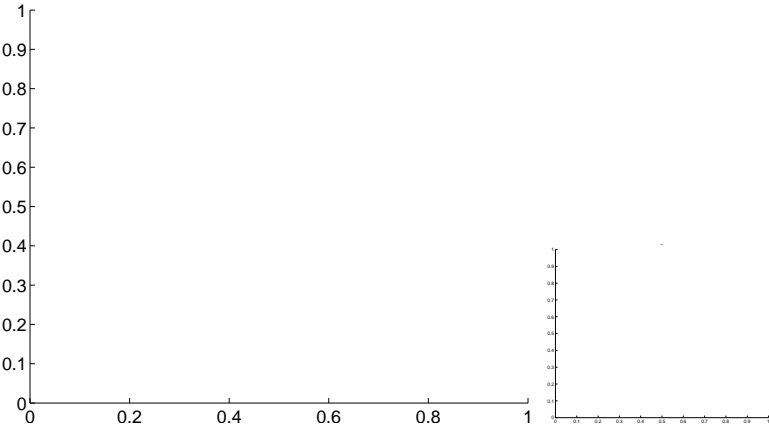
Q7 OOT image



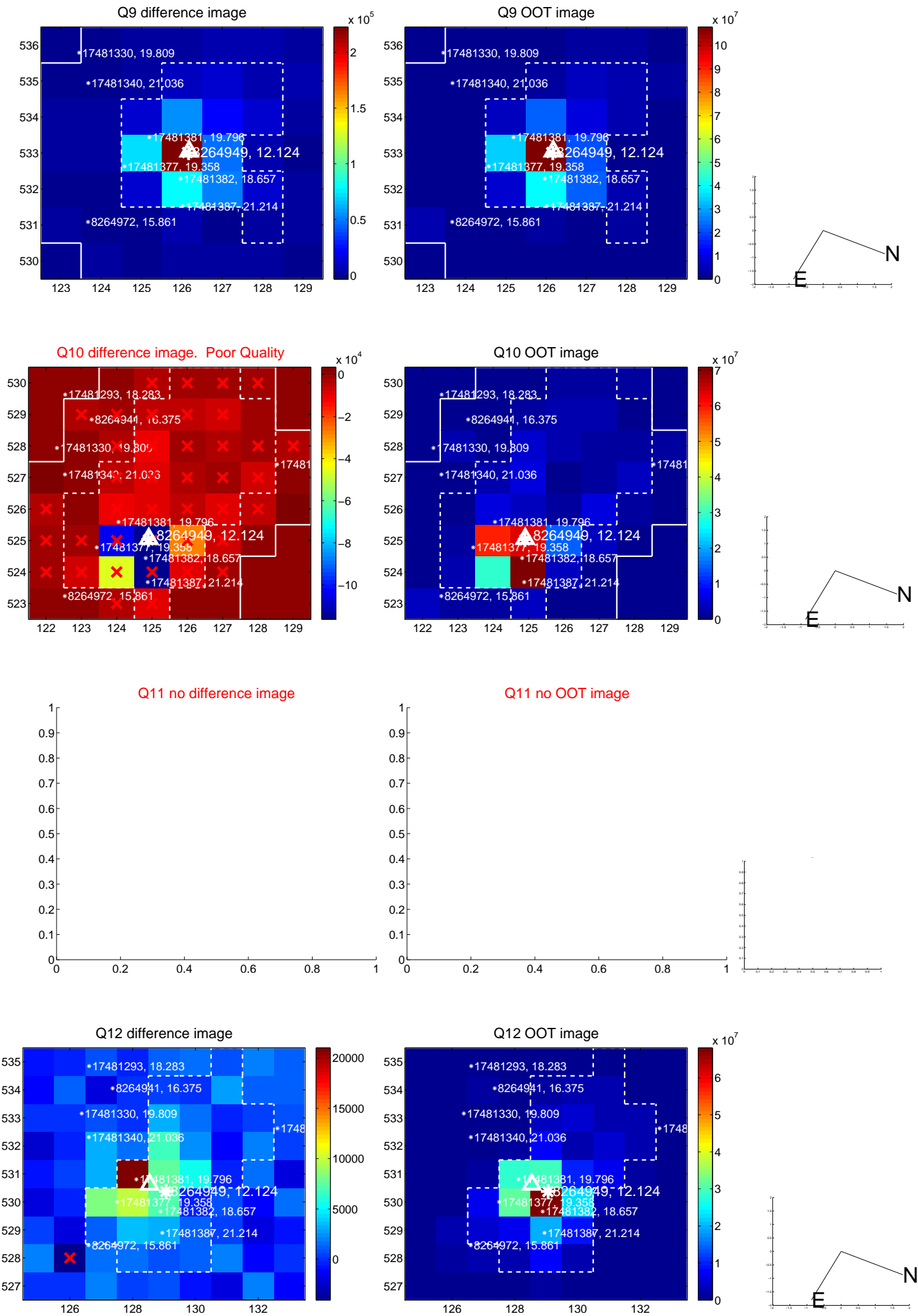
Q8 no difference image



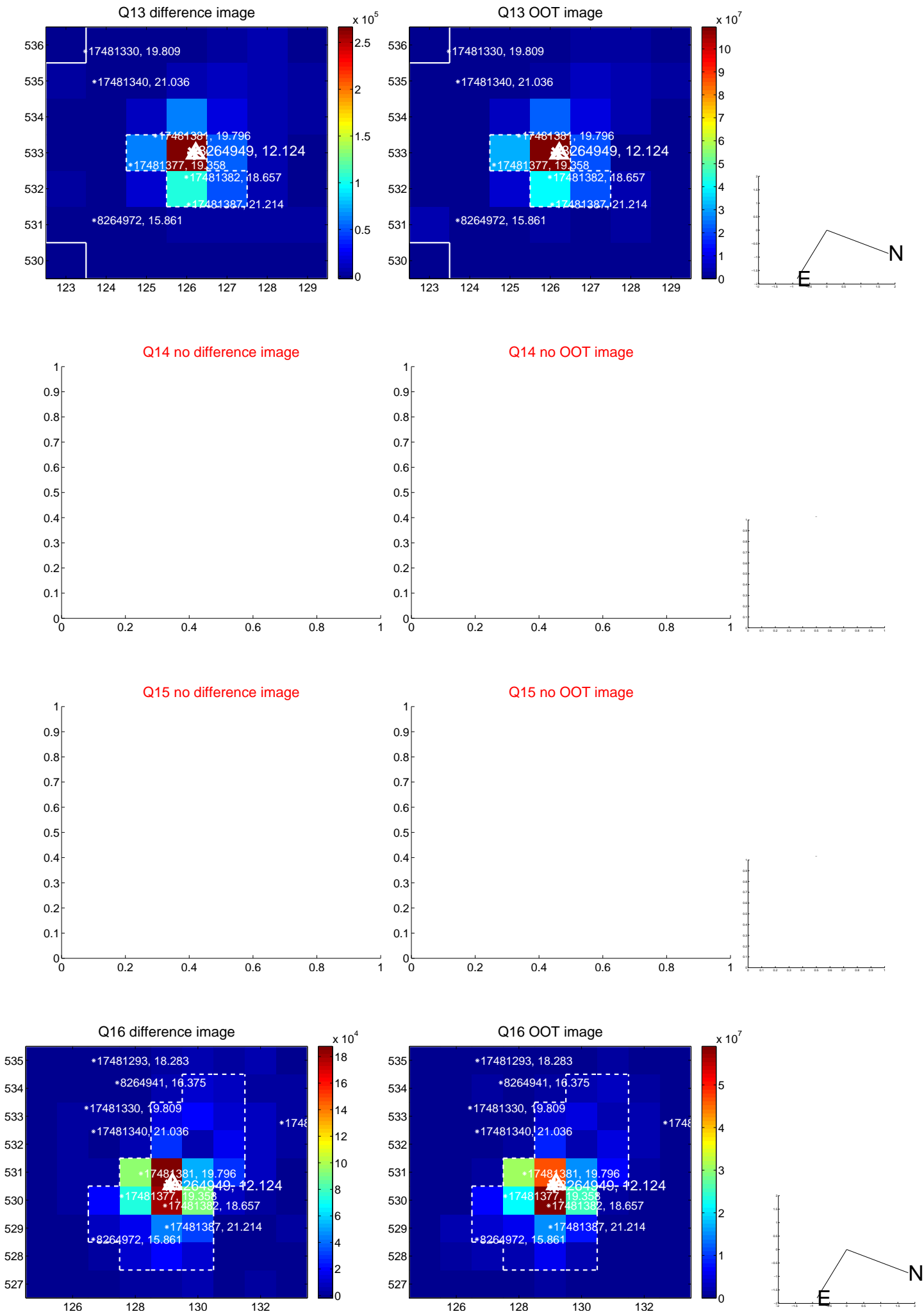
Q8 no OOT image



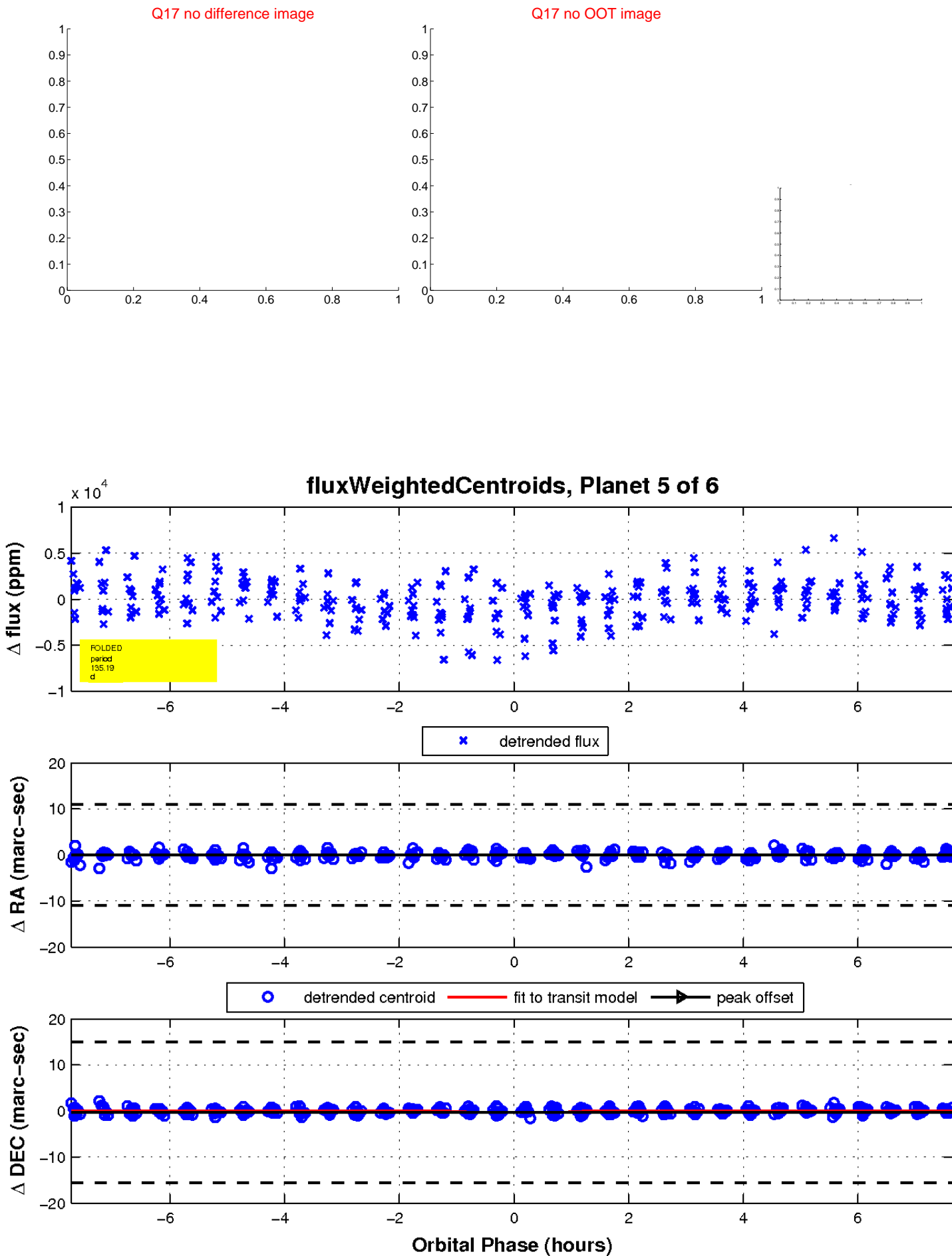
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

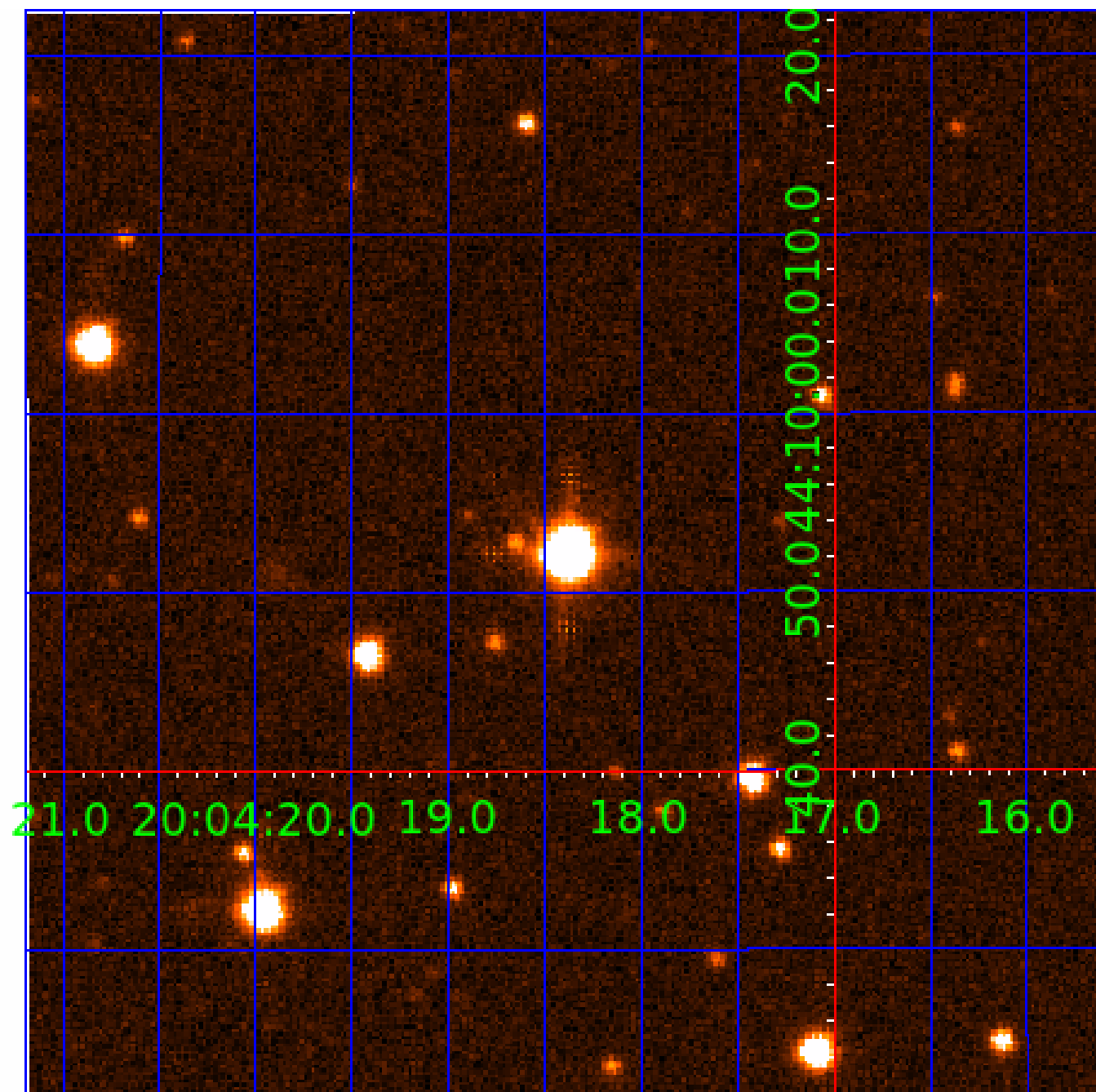


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264949

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|------|------|-----------------------------|-----------------|------------------------|------------------------|
| 008264949-01 | OBS | No | 0.588553 | 131.888239 | 207.1 | 3.773 | 11.1 | 10.2 | 3.27 | 8184 | 5.04 | 139925.53 |
| 008264949-03 | OBS | No | 76.146727 | 136.878381 | 4635.0 | 1.249 | 11.9 | 10.0 | 3.27 | 8184 | 23.09 | 213.83 |
| 008264949-04 | OBS | No | 42.853370 | 141.594977 | 3488.1 | 2.663 | 10.8 | 10.2 | 3.27 | 8184 | 34.24 | 460.22 |
| 008264949-05 | OBS | No | 135.188378 | 156.313059 | 4931.5 | 2.578 | 9.7 | 9.6 | 3.27 | 8184 | 24.43 | 99.47 |
| 008264949-06 | OBS | No | 34.868578 | 162.376626 | 374.5 | 1.500 | 9.7 | -1.0 | 3.27 | 8184 | 6.42 | 605.85 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|--|
| 008264949-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT |
| 008264949-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT |
| 008264949-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT |
| 008264949-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS |
| 008264949-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS |

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

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

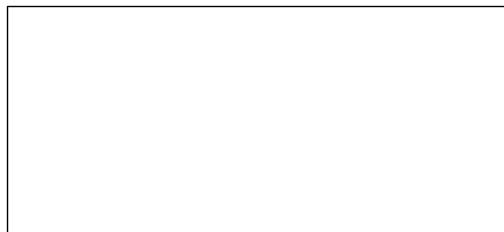
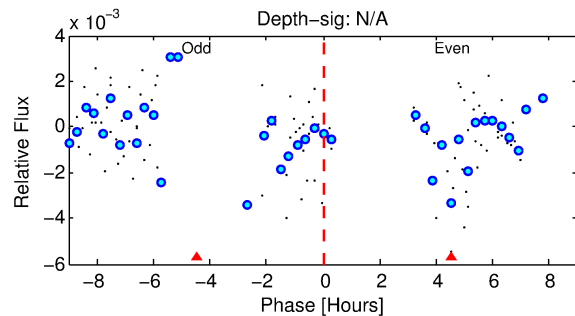
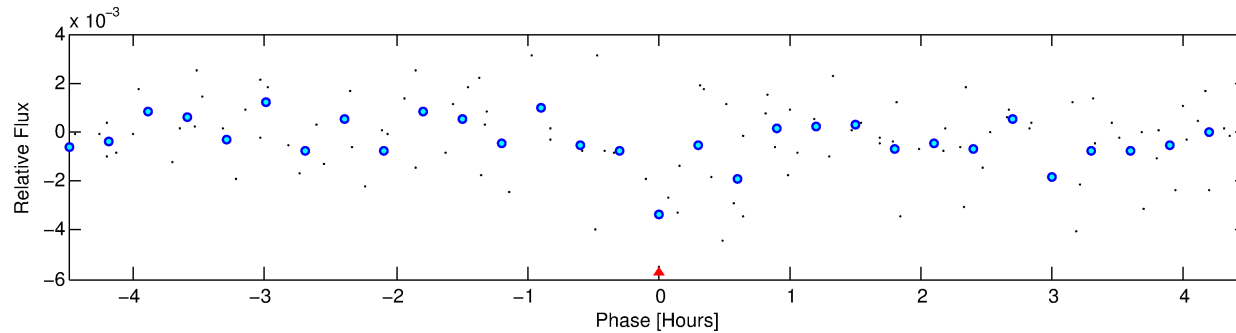
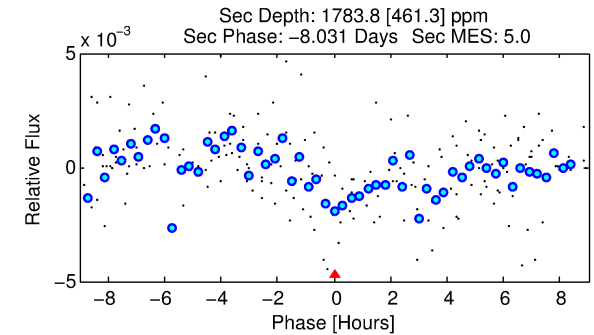
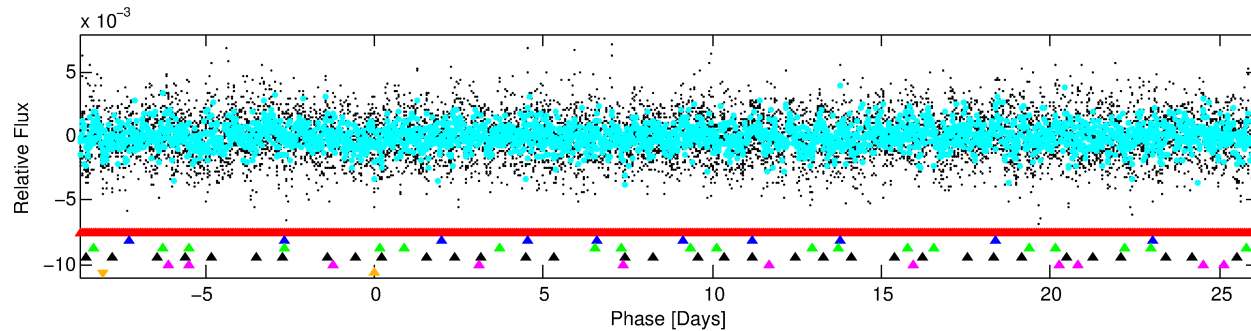
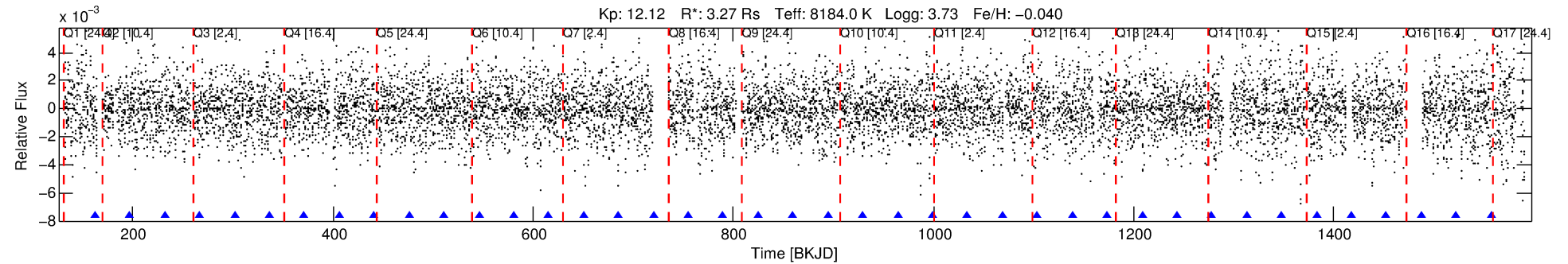
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264949-06

No Significant Match Found

DV One-Page Summary

KIC: 8264949 Candidate: 6 of 6 Period: 34.869 d



TPS TCE Results:

Period = 34.86858 d
Epoch = 162.3766 BKJD

DV fit results are unavailable

DV Diagnostic Results:

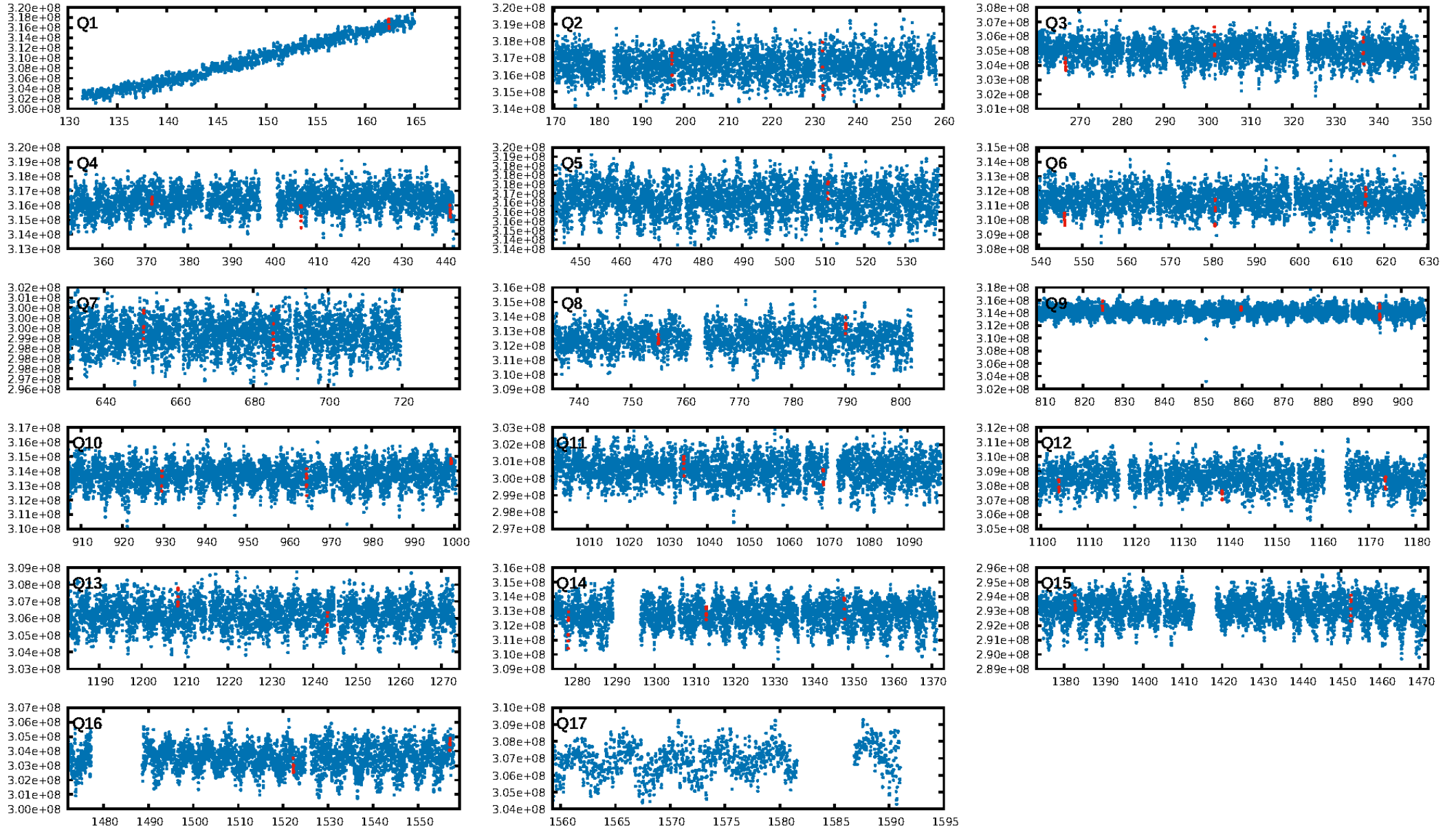
ShortPeriod-sig: 100.0% [202.62σ]
LongPeriod-sig: 100.0% [62.69σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: N/A
GhostDiagnostic-chr: N/A

Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: N/A

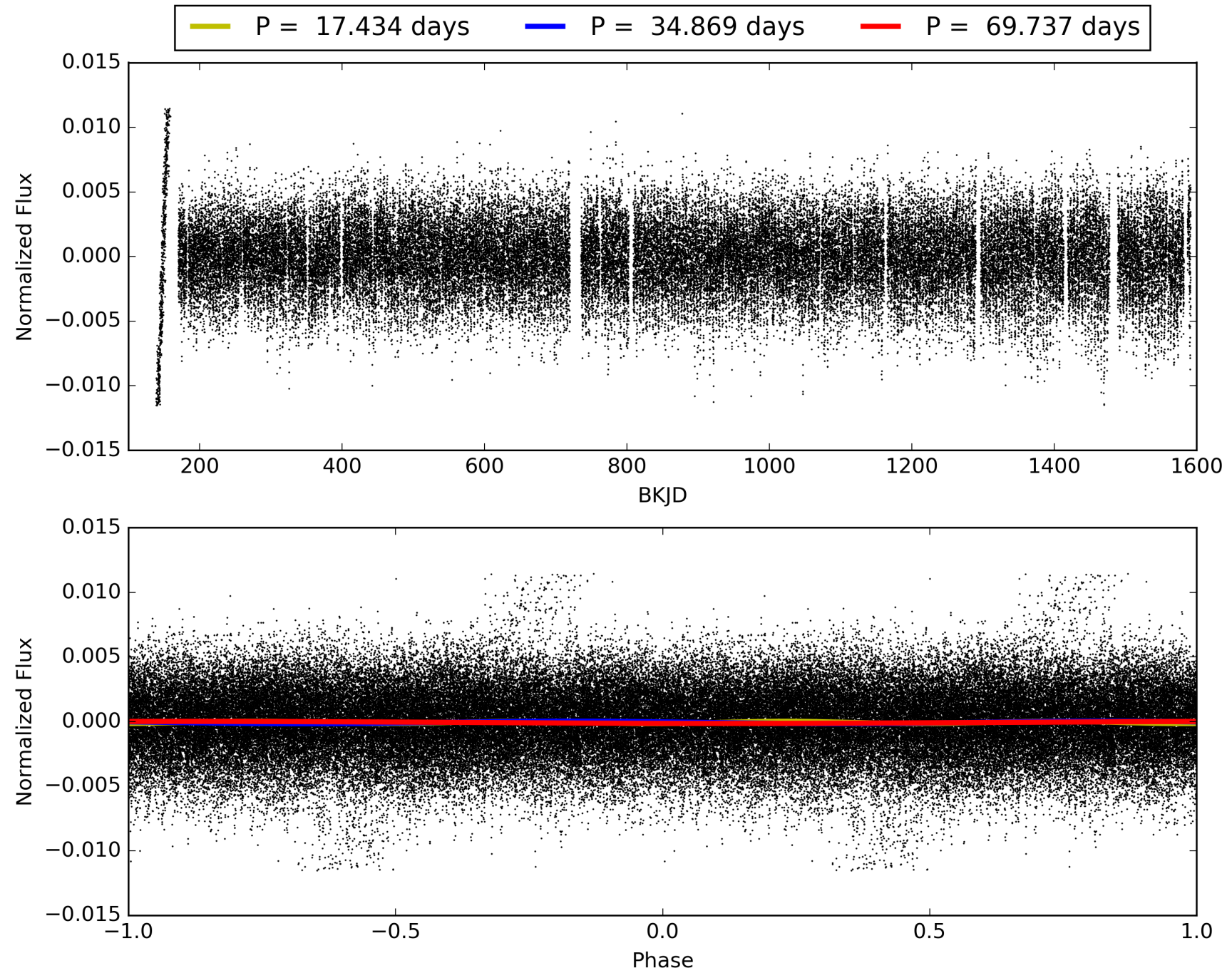
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:49:57 Z

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

TCE 008264949-06, PDC Light Curves

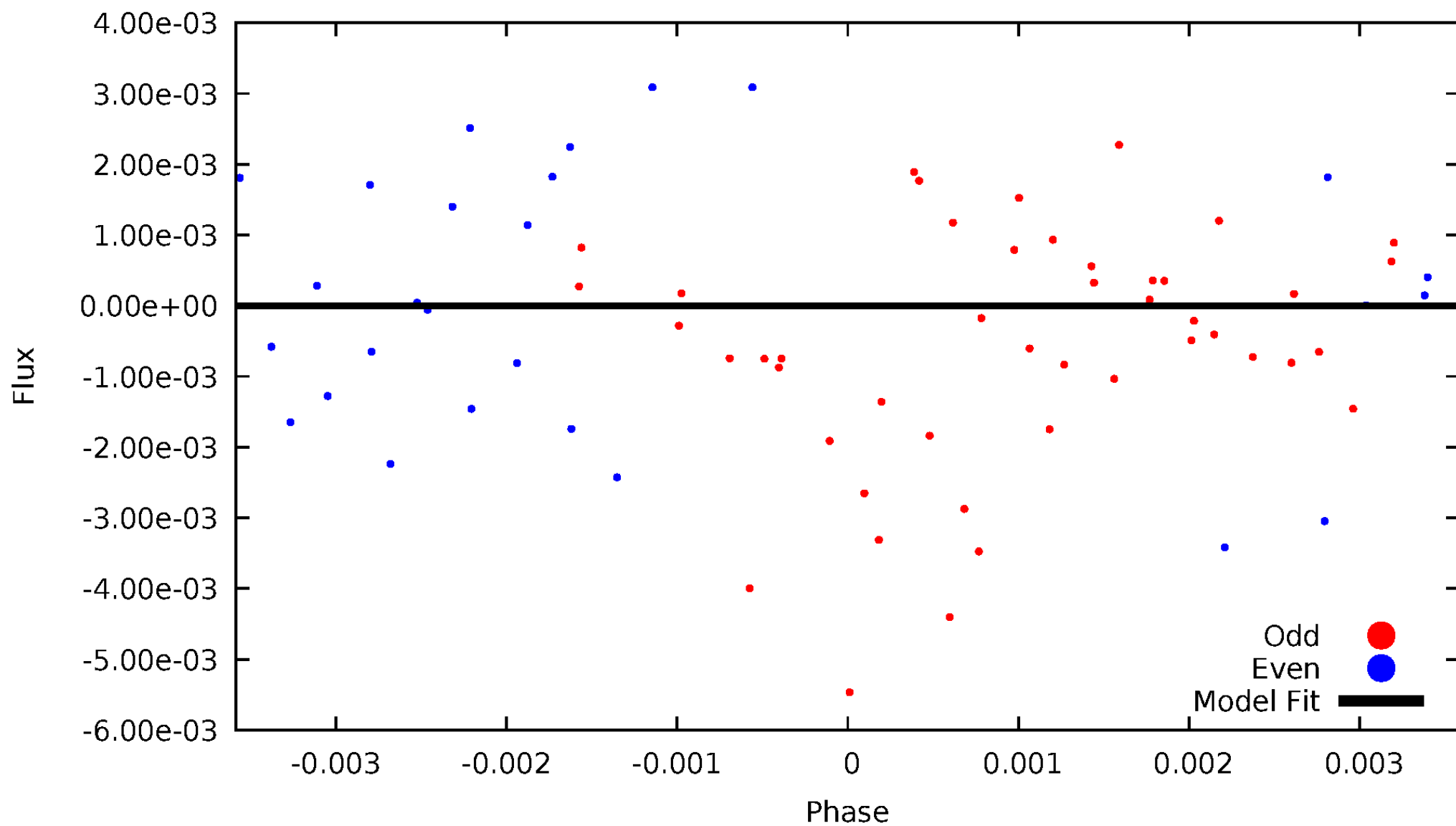


TCE 008264949-06



DV Odd/Even

TCE 008264949-06

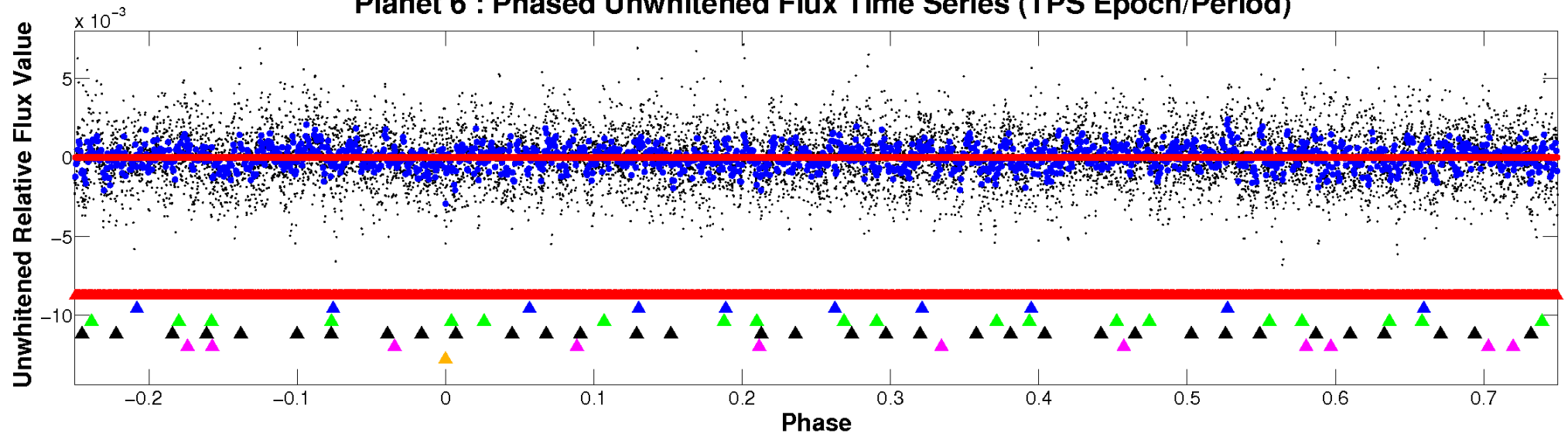


ALT Odd/Even

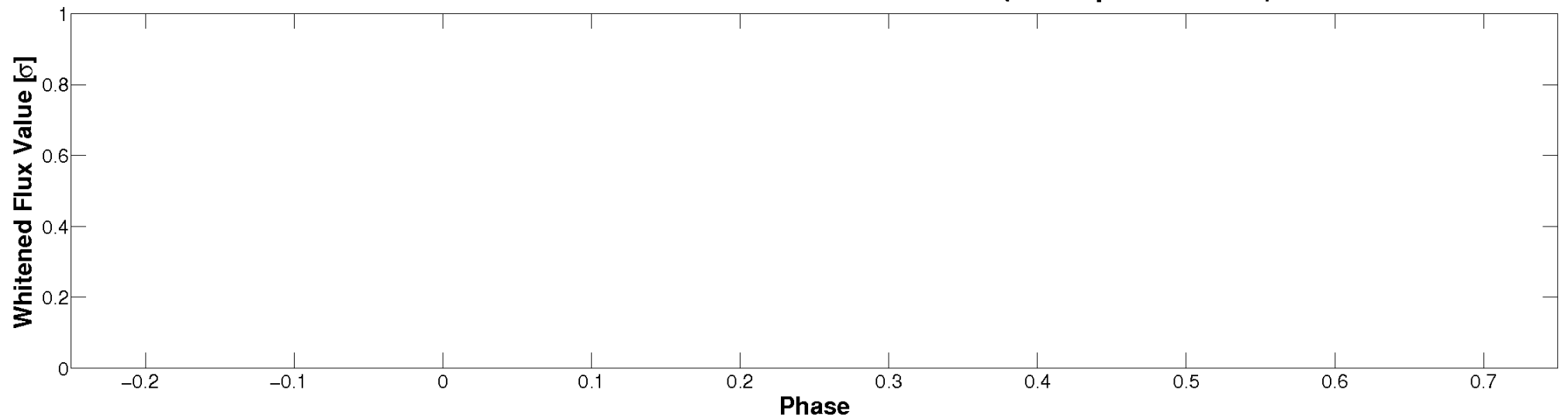
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

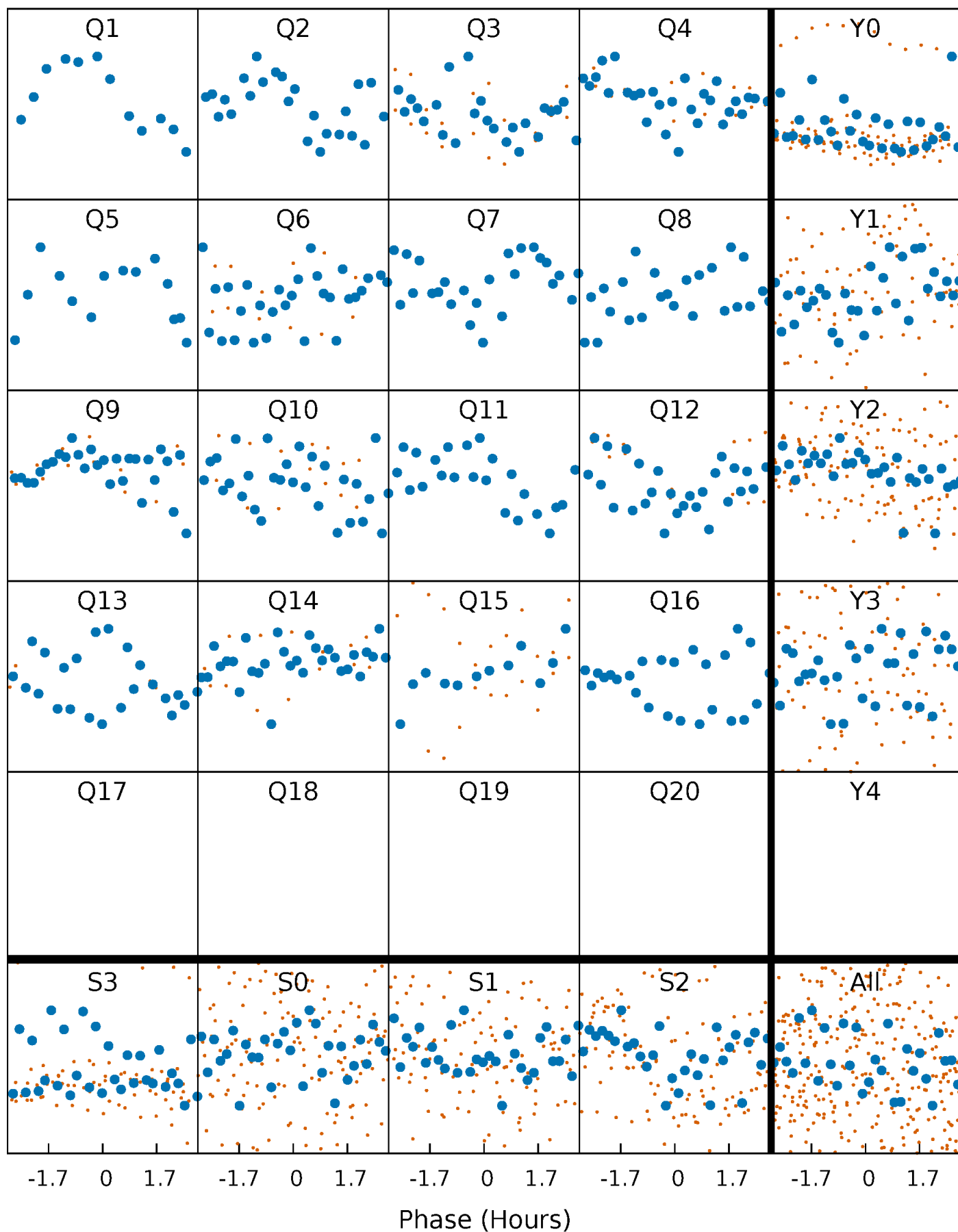


Planet 6 : Phased Whitened Flux Time Series (TPS Epoch/Period)



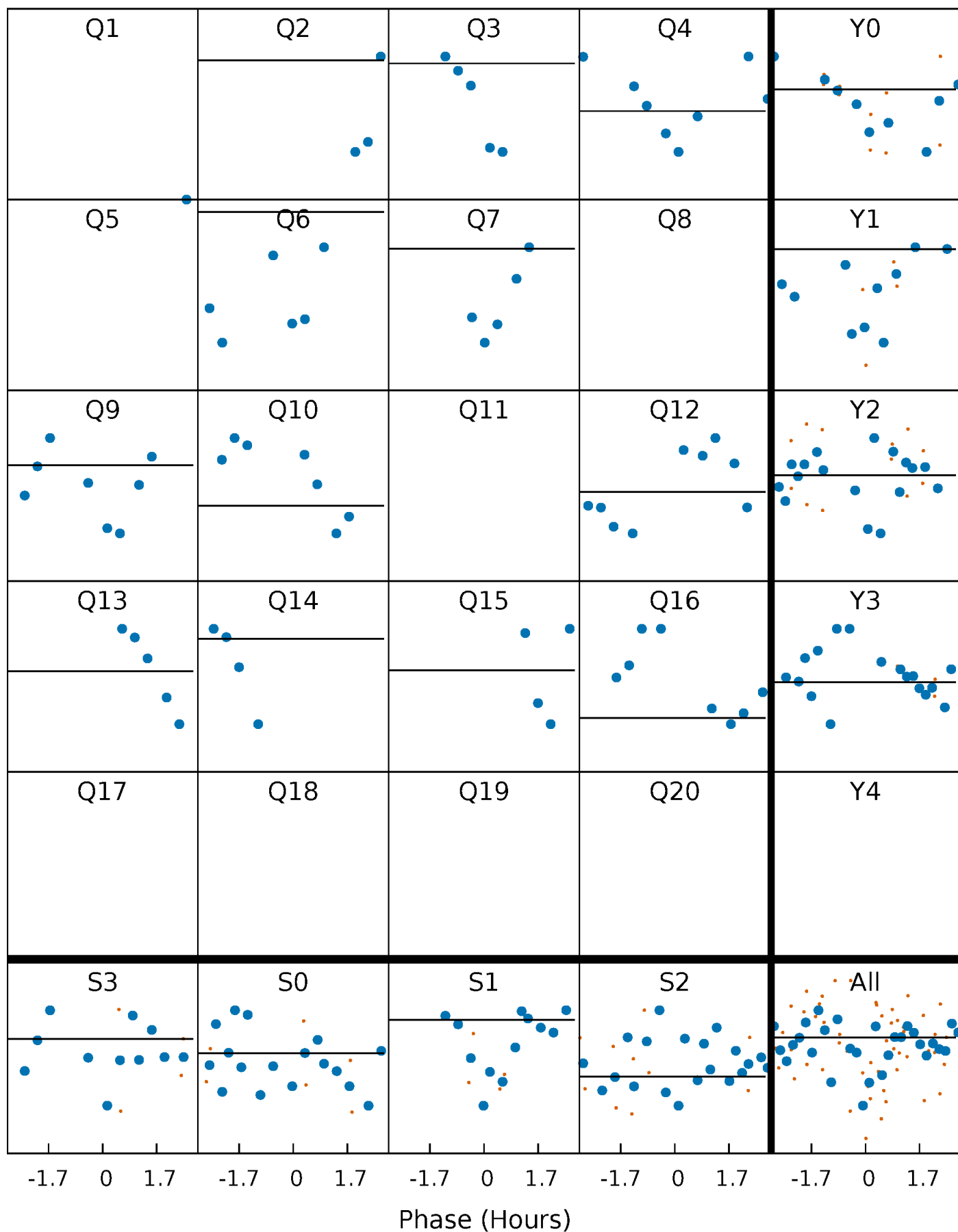
PDC Quarter-Phased Transit Curves

TCE 008264949-06 P= 34.868578 Days $T_0=162.376626$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008264949-06 P= 34.868578 Days $T_0=162.376626$ (BKJD)

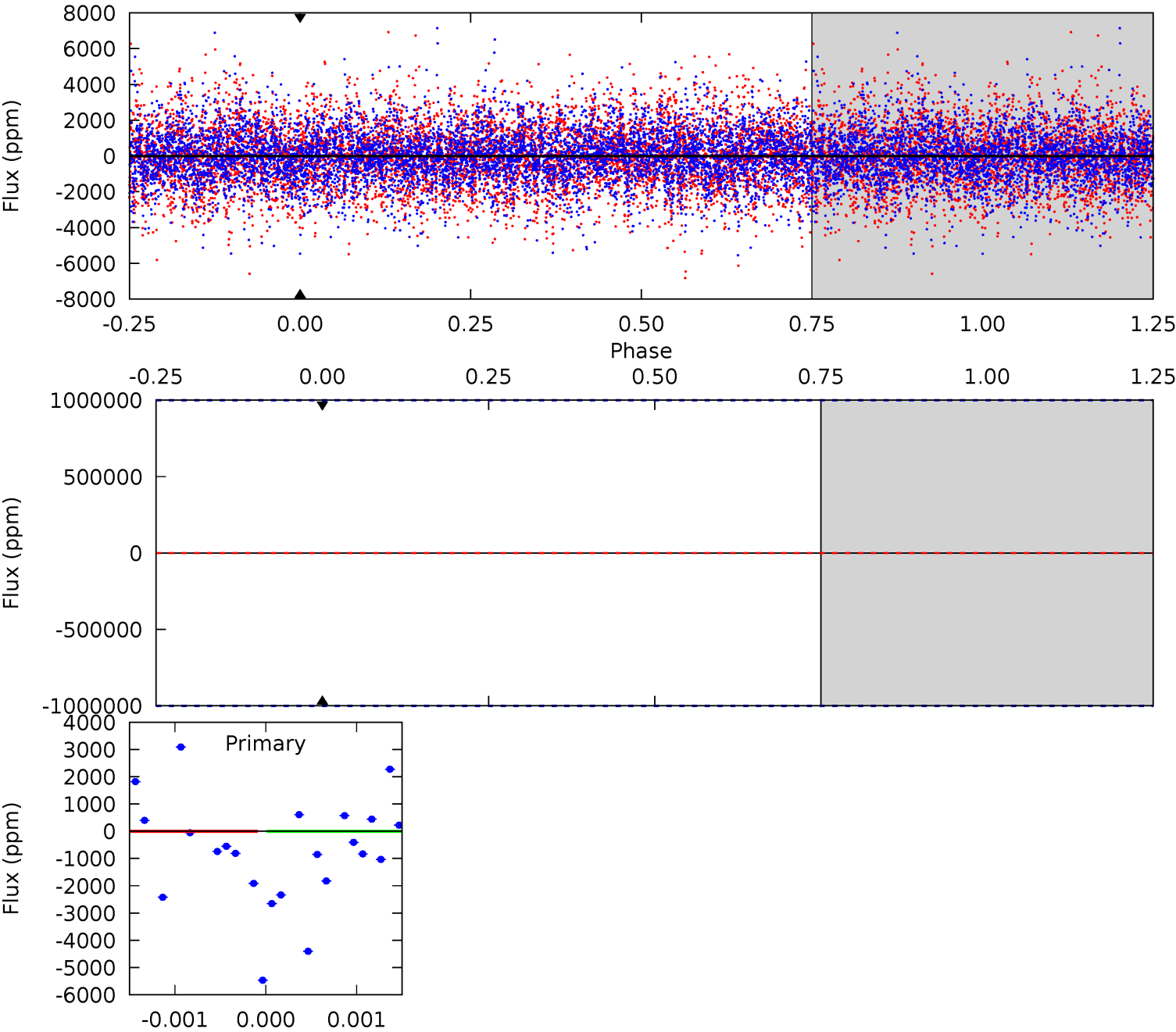


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

008264949-06, P = 34.868578 Days, E = 127.508048 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

This plot does not exist for this TCE.

Stellar Parameters For KIC 008264949

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | $R (R_{\odot})$ | $M(M_{\odot})$ | $p_{\star} (\text{g}\cdot\text{cm}^{-3})$ |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 8184^{+226}_{-368} | $3.725^{+0.440}_{-0.138}$ | $-0.040^{+0.250}_{-0.400}$ | $3.268^{+0.848}_{-1.576}$ | $2.068^{+0.347}_{-0.521}$ | $0.083^{+0.329}_{-0.034}$ |
| | +3%/-4% | +12%/-4% | +625%/-1000% | +26%/-48% | +17%/-25% | +395%/-41% |
| Source | KIC0 | 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 008264949-06 / KOI

| Detrend | Depth (ppm) | $R_p (R_{\oplus})$ | $T_{max} (K)$ | $T_{obs} (K)$ | A_{obs} |
|---------|-----------------|---------------------------|----------------------|--------------------------|-------------------------|
| DV | 0 ± 1000000 | $22.82^{+26.19}_{-16.26}$ | 1718^{+142}_{-189} | 7057^{+56636}_{-58933} | 233^{+17073}_{-13455} |
| Alt. | N/A | N/A | N/A | N/A | N/A |

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 $A_{obs} \gg 1.0$

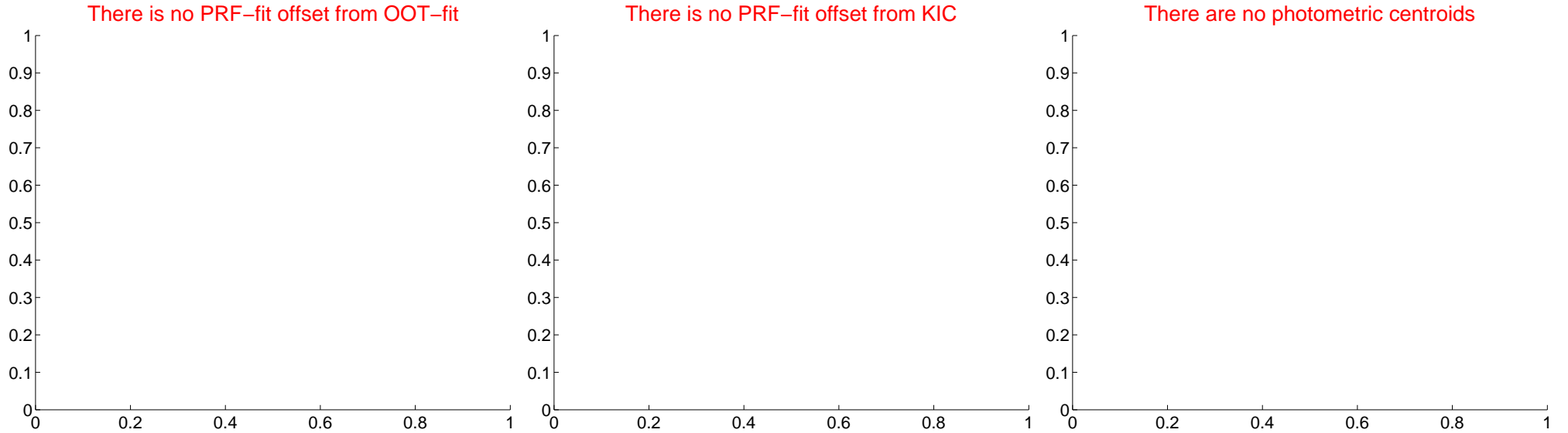
DV Centroid Data

Supplemental centroid analysis for 008264949-06. Kepler magnitude: 12.12. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

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

| | Distance in arcsec | Distance / σ | Δ RA | Δ Dec |
|---|--------------------|---------------------|-------------|--------------|
| PRF-fit source offset from OOT | — | — | — | — |
| PRF-fit source offset from KIC position | — | — | — | — |
| 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.



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.



folded centroid time series figure for this object.

UKIRT Image

Declination

