

KIC 005262664

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|-------|------|-----------------------------|-----------------|------------------------|------------------------|
| 005262664-01 | OBS | No | 365.920200 | 208.663428 | 78.8 | 2.620 | 188.6 | 1.0 | 0.65 | 4771 | 0.61 | 0.26 |
| 005262664-02 | OBS | No | 364.085172 | 217.788295 | 103607.9 | 15.000 | 273.4 | -1.0 | 0.65 | 4771 | 20.22 | 0.27 |
| 005262664-03 | OBS | No | 371.822680 | 200.842063 | 68946.7 | 15.000 | 217.5 | -1.0 | 0.65 | 4771 | 16.46 | 0.26 |
| 005262664-04 | OBS | No | 372.640023 | 205.317013 | 772566.2 | 15.000 | 204.8 | -1.0 | 0.65 | 4771 | 19.45 | 0.26 |
| 005262664-05 | OBS | No | 378.445434 | 196.712296 | 168223.1 | 91.262 | 142.0 | 32.9 | 0.65 | 4771 | 45.21 | 0.25 |
| 005262664-06 | OBS | No | 386.021749 | 445.972289 | 79375.7 | 5.327 | 137.9 | 90.3 | 0.65 | 4771 | 17.66 | 0.24 |
| 005262664-07 | OBS | No | 240.211680 | 256.692238 | 1349.8 | 49.443 | 115.3 | 10.0 | 0.65 | 4771 | 3.06 | 0.46 |
| 005262664-08 | OBS | No | 302.205541 | 203.283873 | 19853.1 | 12.000 | 54.9 | -1.0 | 0.65 | 4771 | 8.81 | 0.34 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|---|
| 005262664-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-02 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-07 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-08 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—INCONSISTENT_TRANS—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.

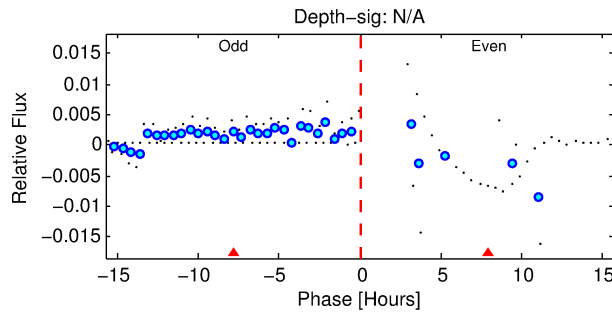
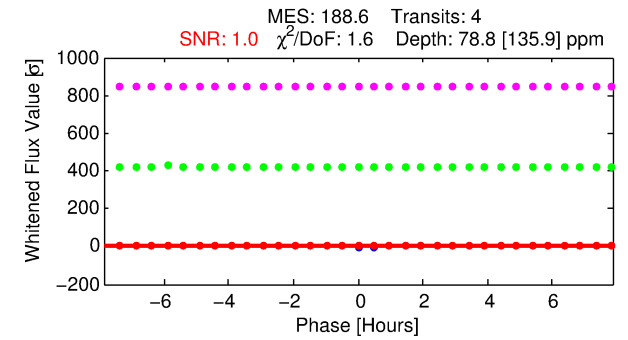
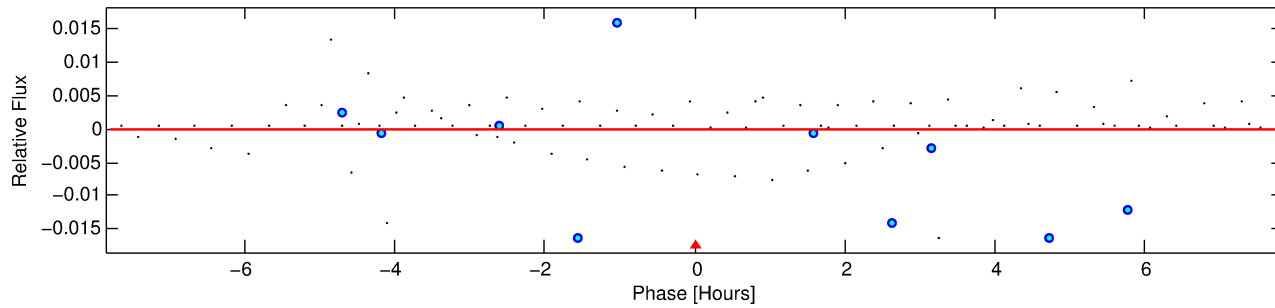
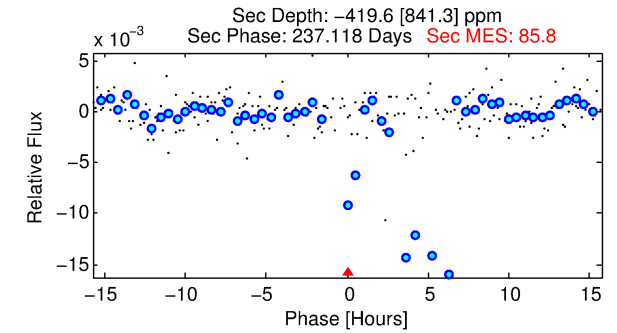
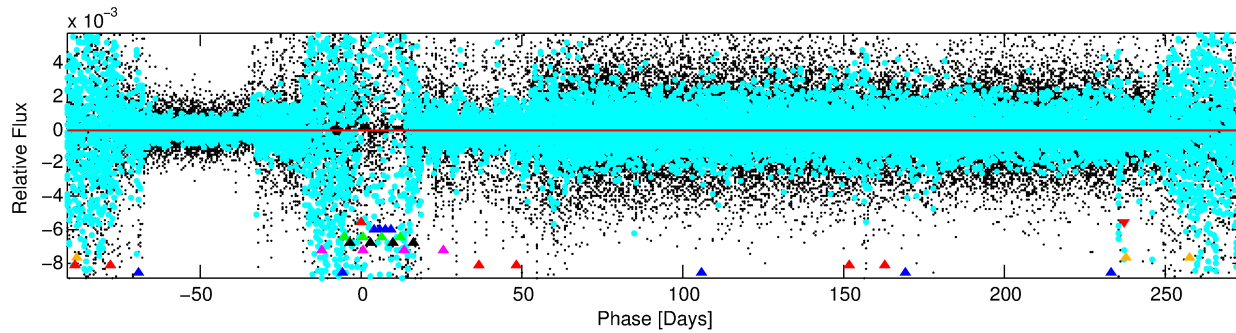
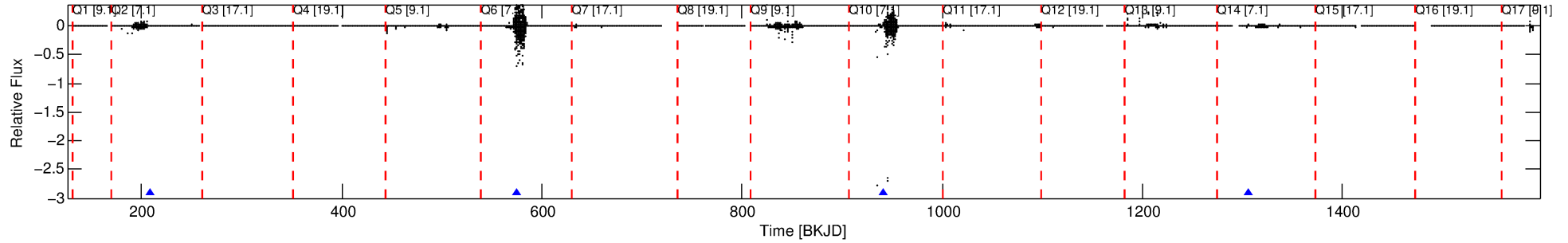
Ephemeris Match Information For 005262664-01

No Significant Match Found

DV One-Page Summary

KIC: 5262664 Candidate: 1 of 8 Period: 365.920 d

Kp: 15.43 R*: 0.65 Rs Teff: 4771.0 K Logg: 4.62 Fe/H: -0.480



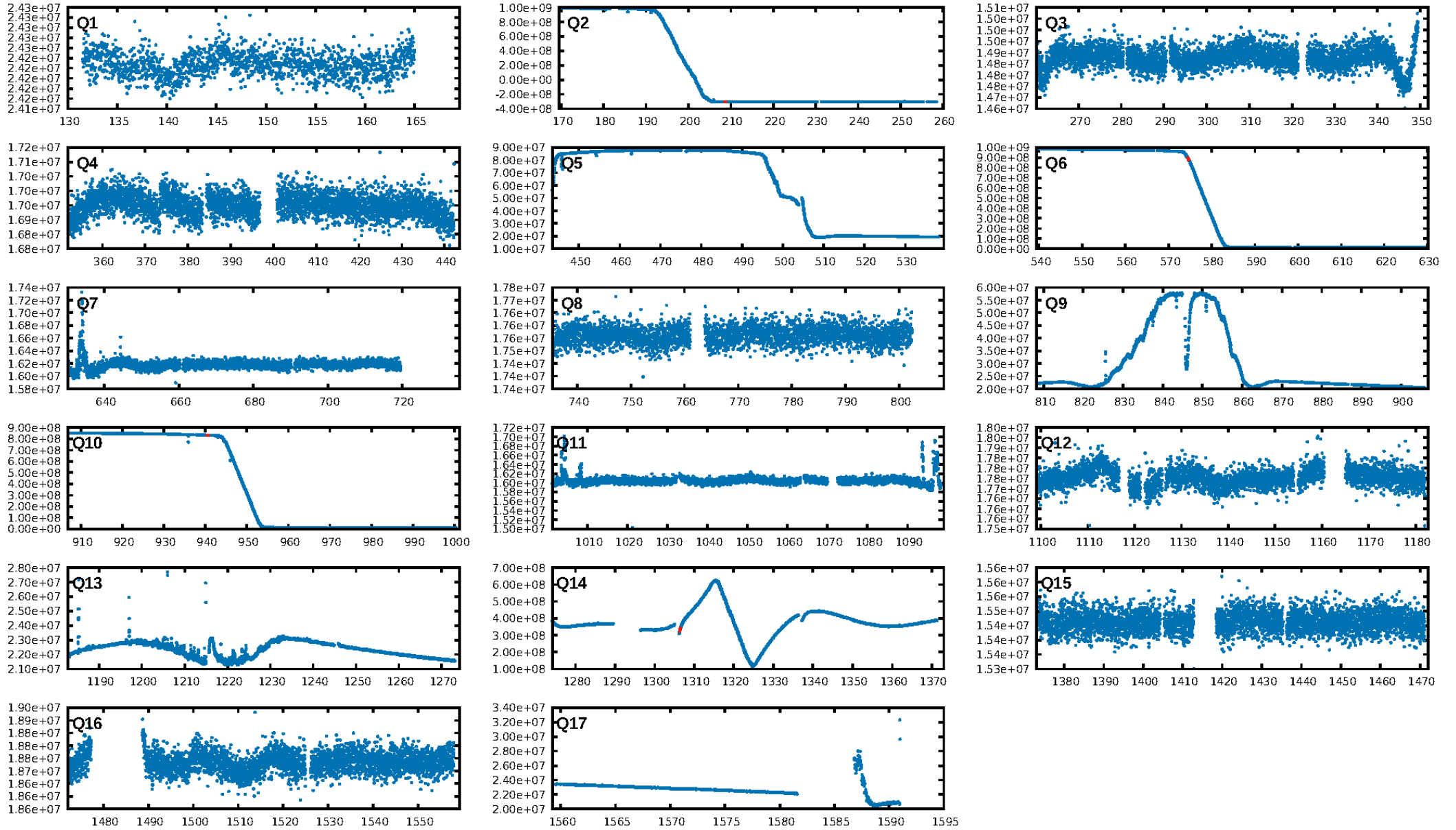
DV Fit Results:

Period = 365.92020 [0.20016] d
Epoch = 208.6634 [0.0260] BKJD
Rp/R* = 0.0087 [0.0878]
a/R* = 774.94 [28271.80]
b = 0.70 [26.30]
Seff = 0.26 [0.04]
Teq = 183 [7] K
Rp = 0.61 [6.19] Re
a = 0.8586 [0.0655] AU
Ag = N/A
Teffp = N/A

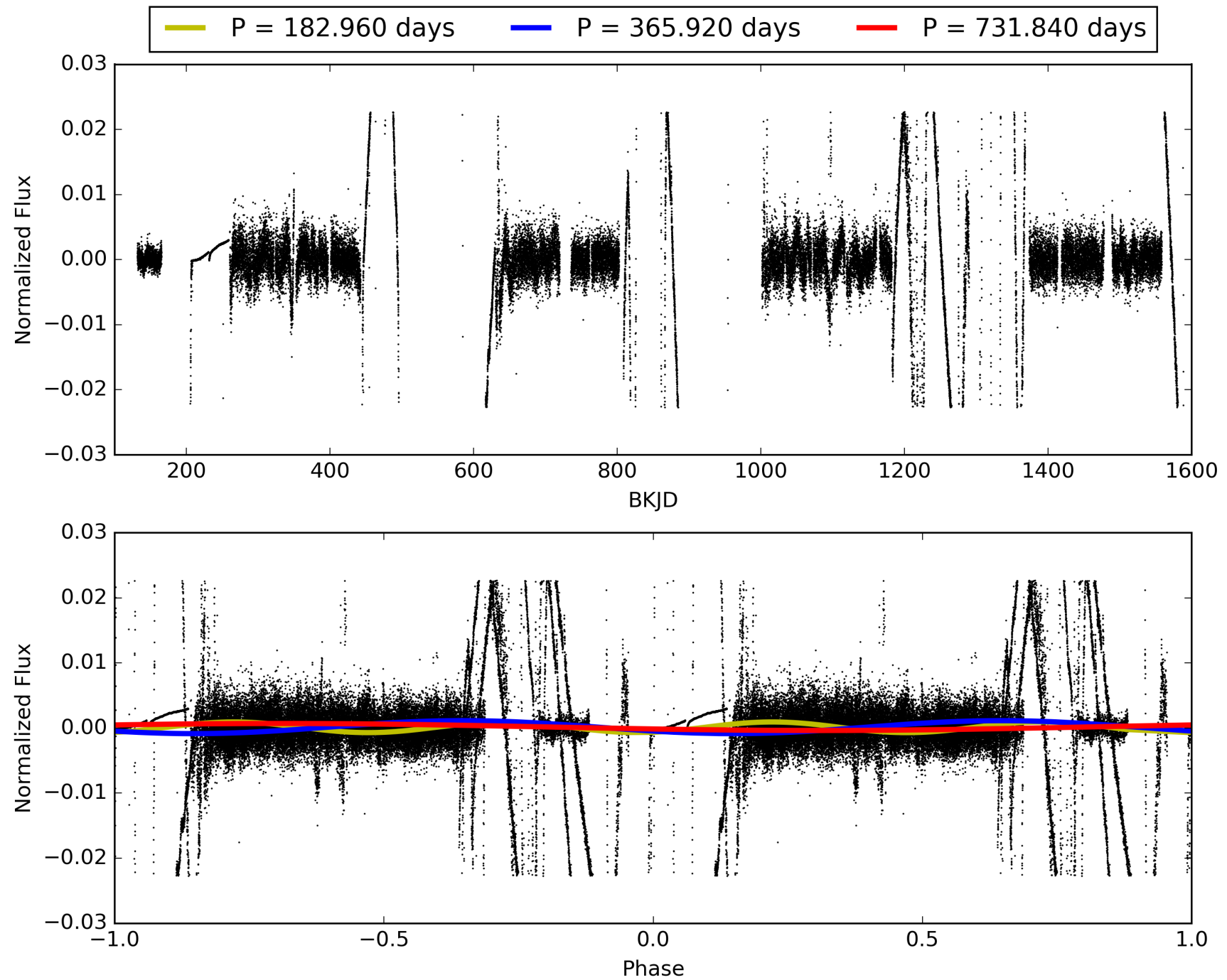
DV Diagnostic Results:

ShortPeriod-sig: 99.6% [2.89σ]
LongPeriod-sig: 100.0% [9.30σ]
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 12.2%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -6.771
Centroid-sig: N/A
Centroid-so: 31.811 arcsec [0.23σ]
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: 0.67 [2/3]

TCE 005262664-01, PDC Light Curves

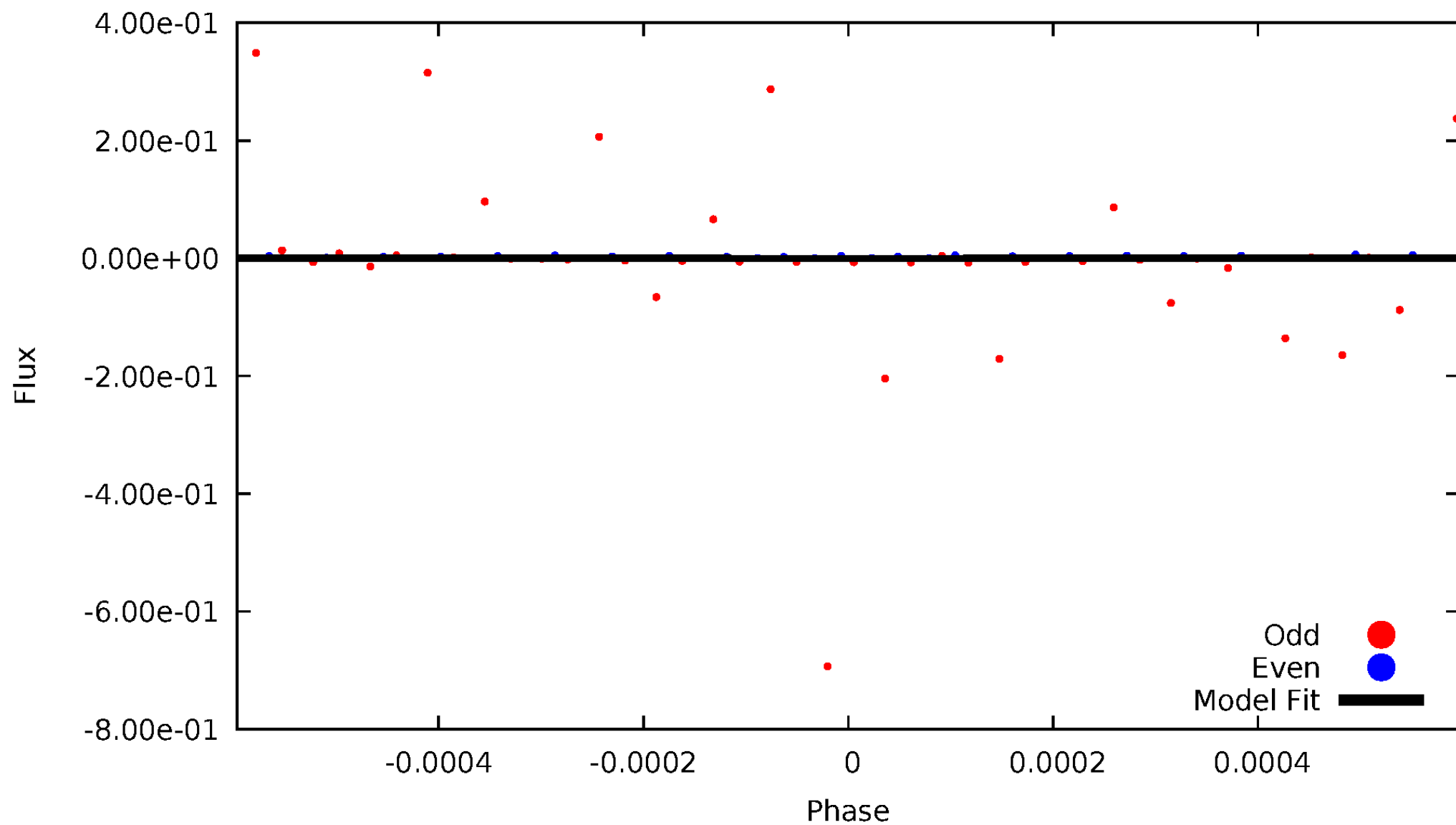


TCE 005262664-01



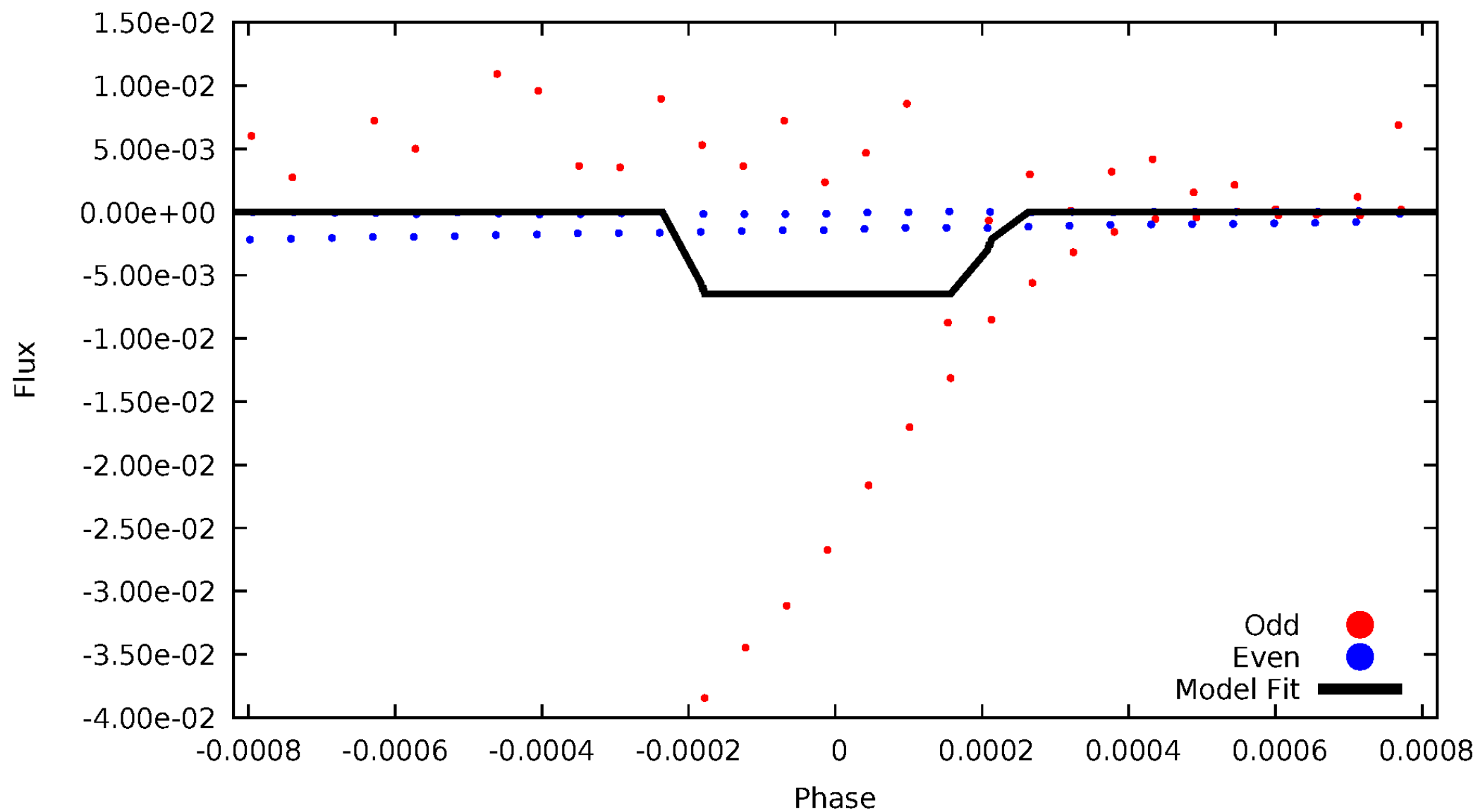
DV Odd/Even

TCE 005262664-01



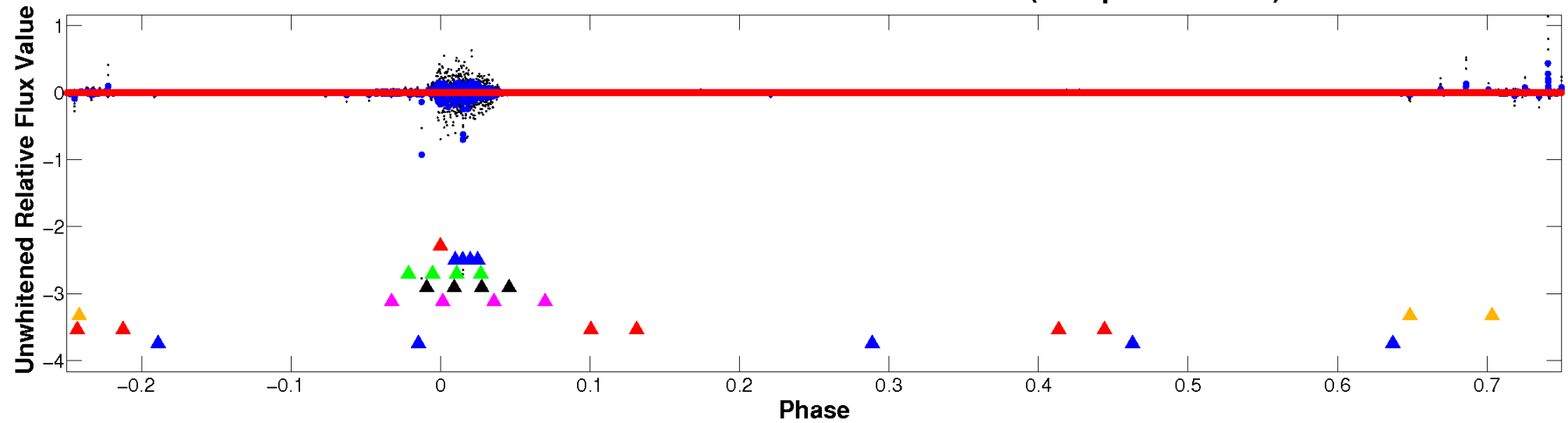
ALT Odd/Even

TCE 005262664-01

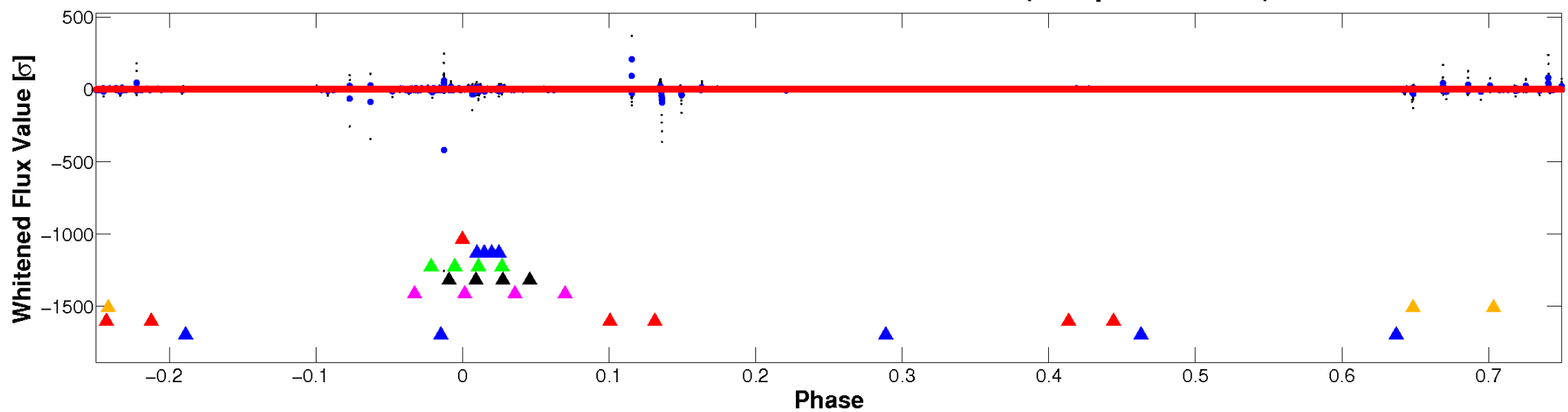


Non-Whitened Vs. Whitened Light Curve

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

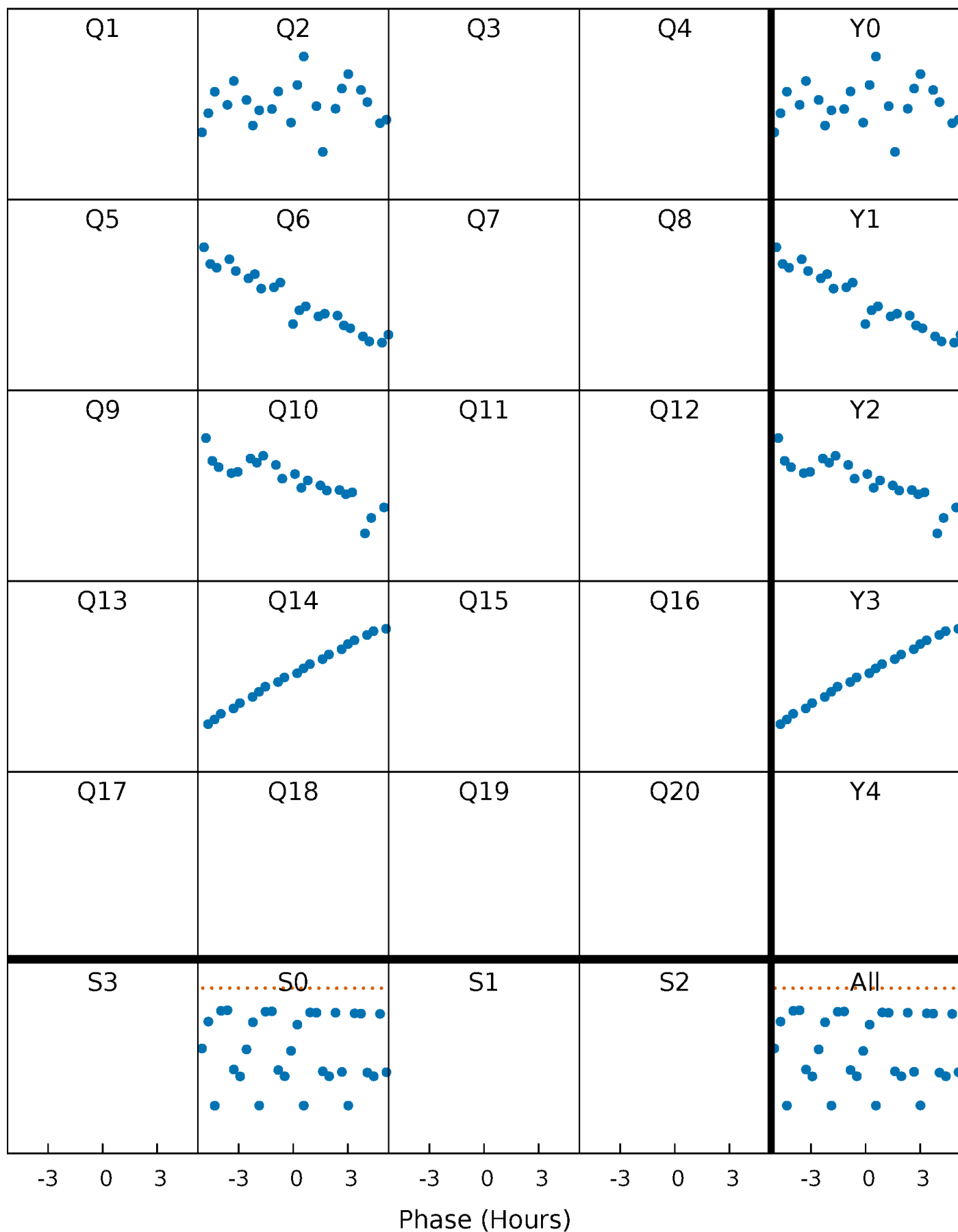


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



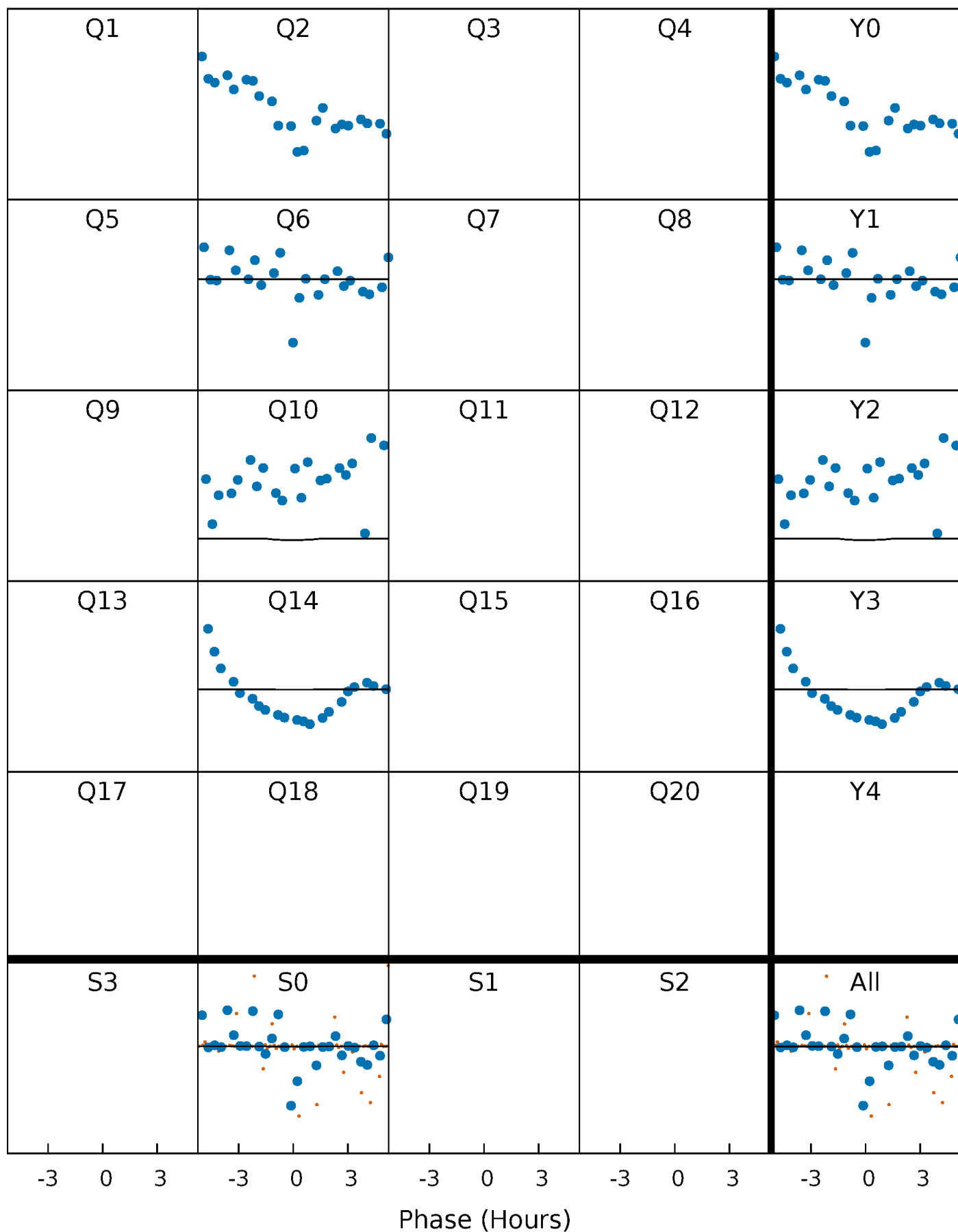
PDC Quarter-Phased Transit Curves

TCE 005262664-01 P=365.920200 Days $T_0=208.663428$ (BKJD)



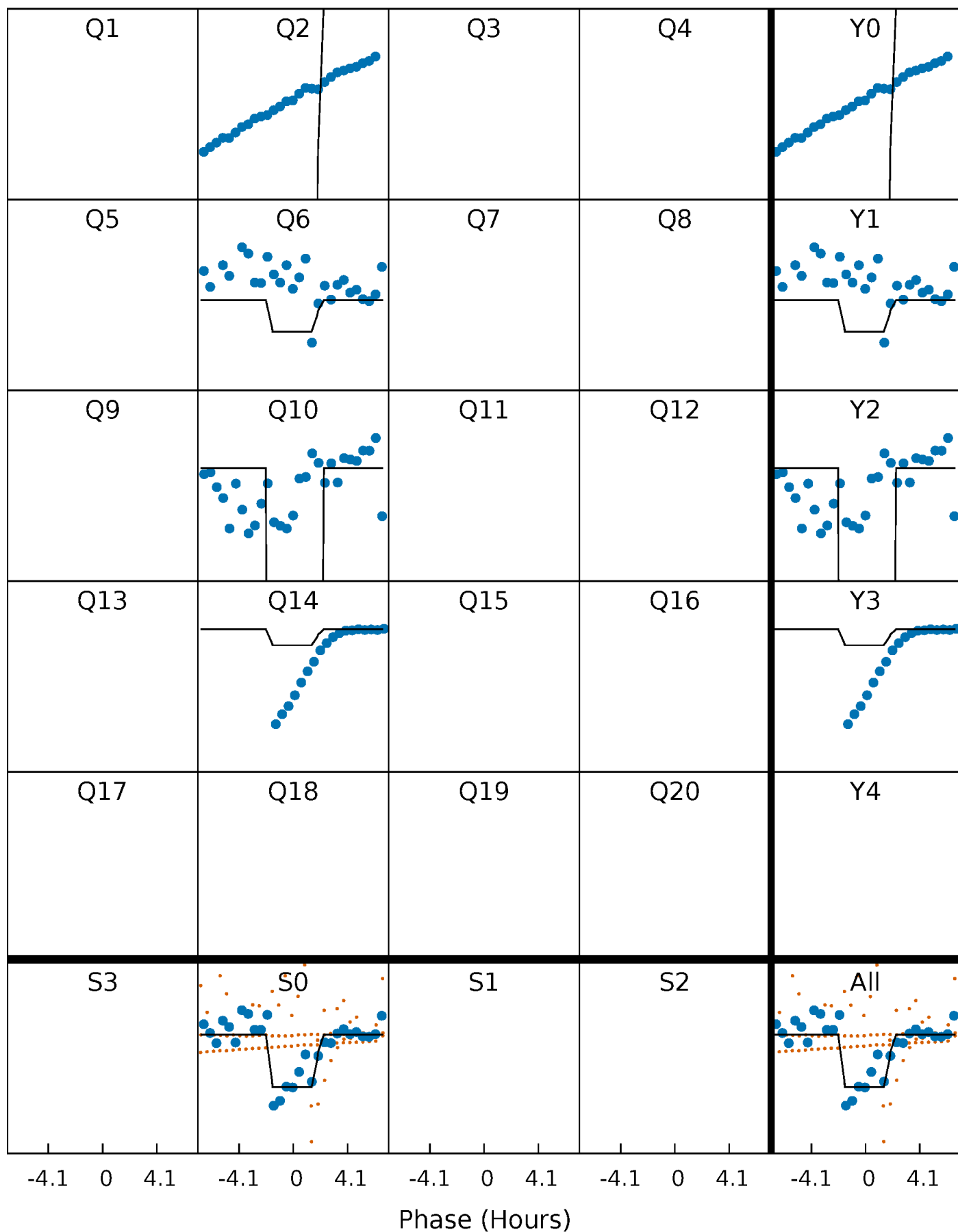
DV Quarter-Phased Transit Curves

TCE 005262664-01 P=365.920200 Days $T_0=208.663428$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

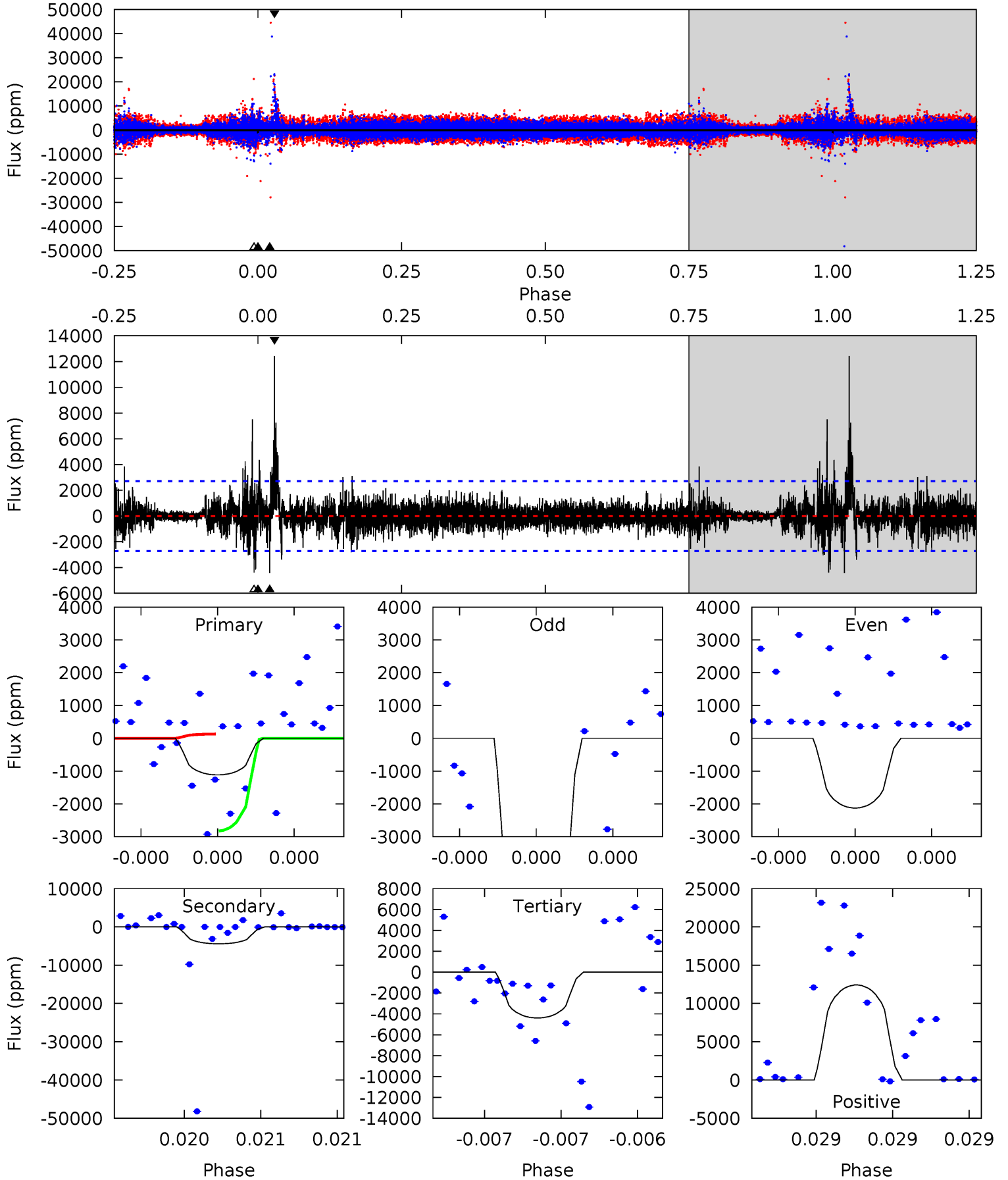
TCE 005262664-01 P=365.862892 Days $T_0=208.657223$ (BKJD)



DV Model-Shift Uniqueness Test

005262664-01, P = 365.920200 Days, E = 208.663428 Days

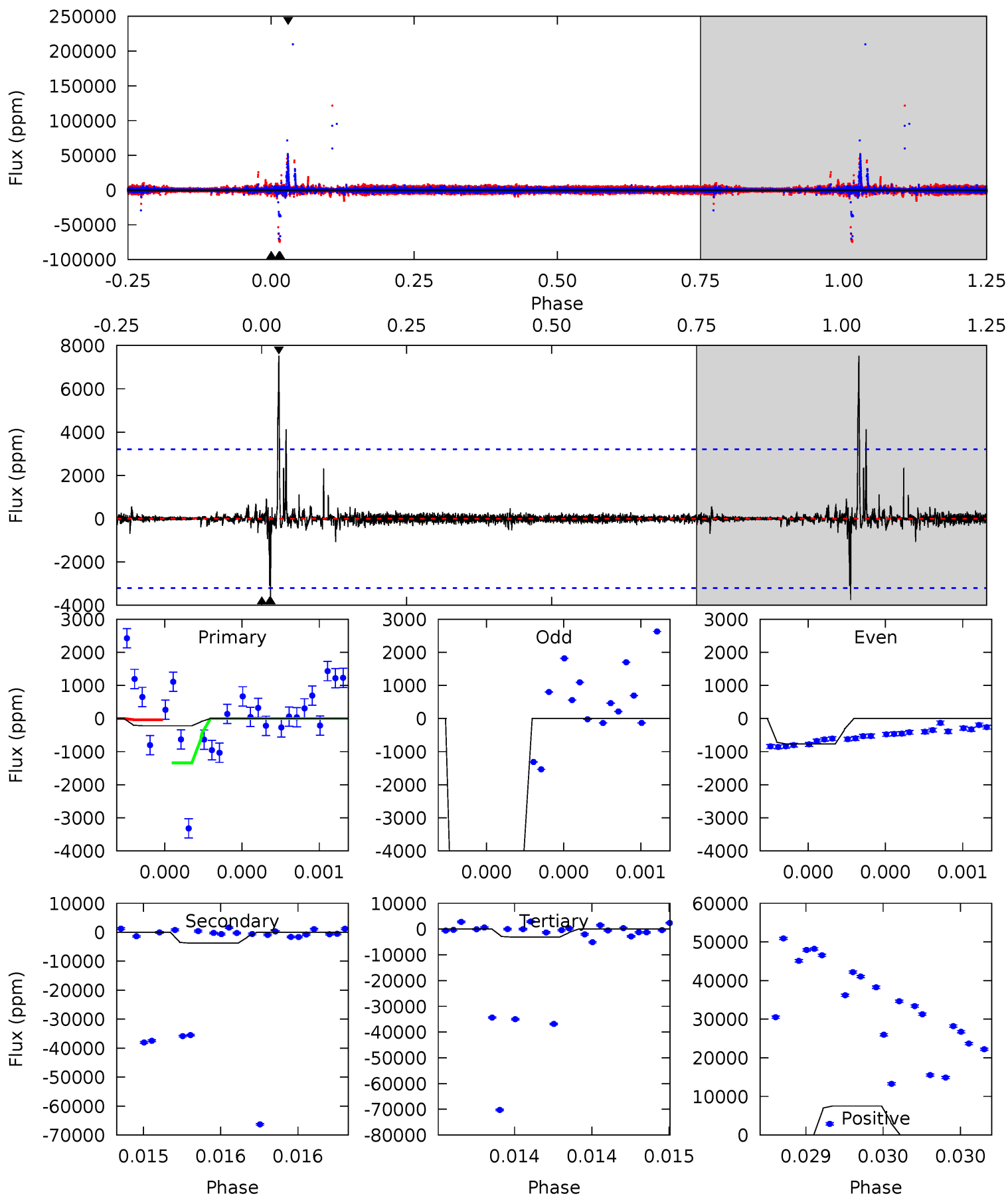
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 2.33 | 9.20 | 9.14 | 25.8 | 5.65 | 3.60 | 1.47 | -6.82 | -23.5 | 0.06 | -16.6 | 2.30 | 11.9 | 0.74 | 2.59 |



Alt Model-Shift Uniqueness Test

005262664-01, P = 365.862892 Days, E = 208.657223 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|-----|
| 0.38 | 6.54 | 5.41 | 13.1 | 5.59 | 3.51 | 0.42 | -5.03 | -12.7 | 1.13 | -6.59 | 0.36 | 7.91 | 0.67 | 0 |



Stellar Parameters For KIC 005262664

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | R (R_{\odot}) | $M(M_{\odot})$ | p_{\star} ($\text{g}\cdot\text{cm}^{-3}$) |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 4771^{+142}_{-128} | $4.617^{+0.054}_{-0.031}$ | $-0.480^{+0.300}_{-0.300}$ | $0.646^{+0.062}_{-0.056}$ | $0.630^{+0.082}_{-0.038}$ | $3.293^{+0.797}_{-0.481}$ |
| | +3%/-3% | +1%/-1% | +62%/-62% | +10%/-9% | +13%/-6% | +24%/-15% |
| 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 005262664-01 / KOI

| Detrend | Depth (ppm) | R_p (R_{\oplus}) | T_{max} (K) | T_{obs} (K) | A_{obs} |
|---------|-----------------|------------------------|----------------------|------------------------|-----------------------------|
| DV | -4424 ± 481 | $4.55^{+4.64}_{-3.31}$ | 255^{+8}_{-9} | 4878^{+5227}_{-1140} | $91857^{+1139563}_{-69095}$ |
| Alt. | -3747 ± 573 | $6.94^{+5.89}_{-4.48}$ | 253^{+8}_{-8} | 3957^{+2257}_{-725} | $31962^{+226580}_{-22988}$ |

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

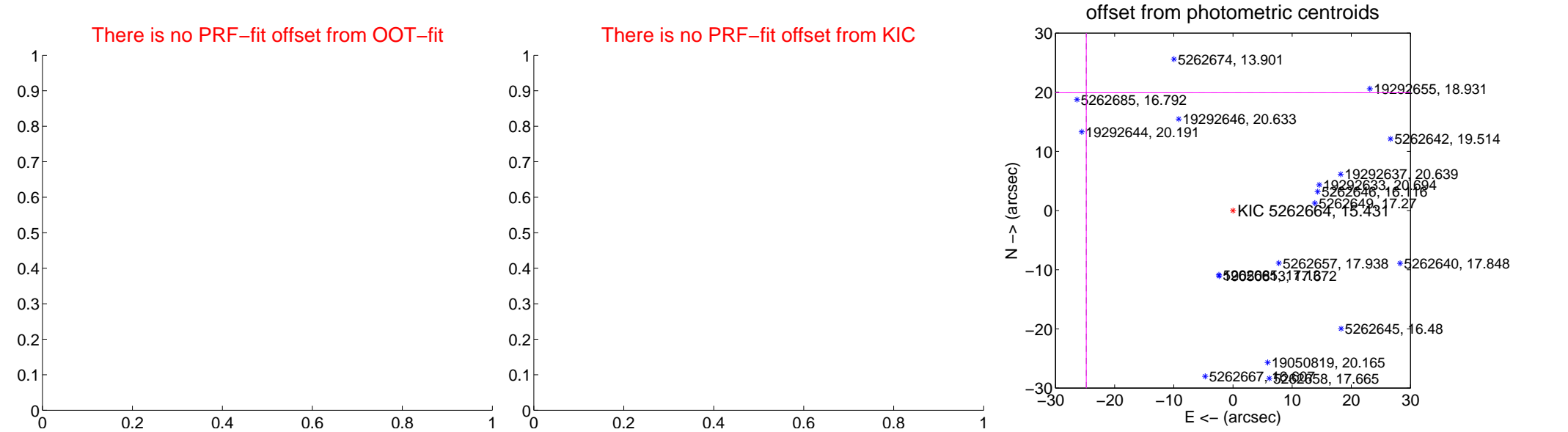
DV Centroid Data

Supplemental centroid analysis for 005262664-01. Kepler magnitude: 15.43. Transit SNR 0.97

There are 0 quarters with good PRF difference image offsets

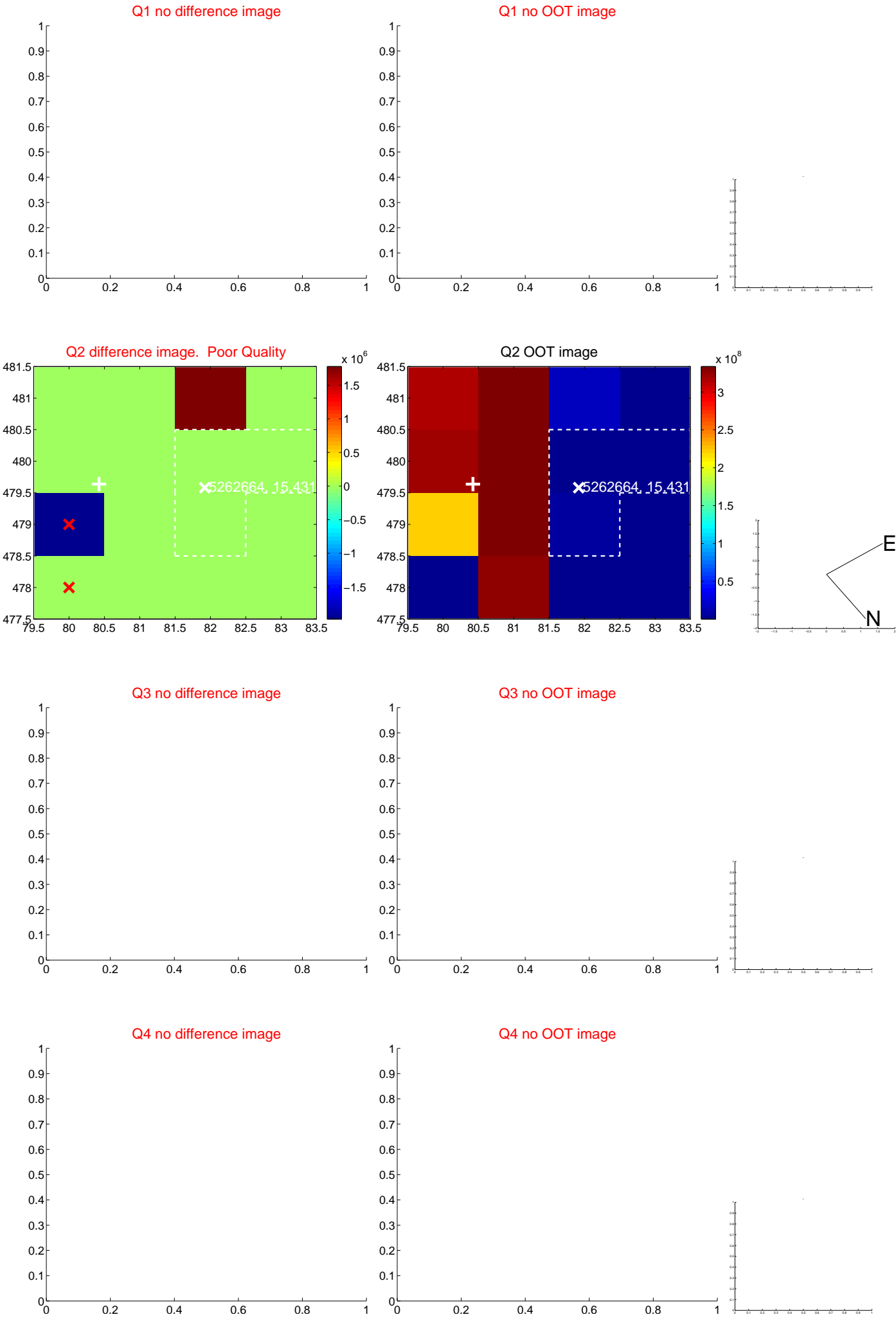
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

| | 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 | 31.81 ± 137.93 | 0.23 | 24.80 ± 153.79 | 19.92 ± 108.84 |

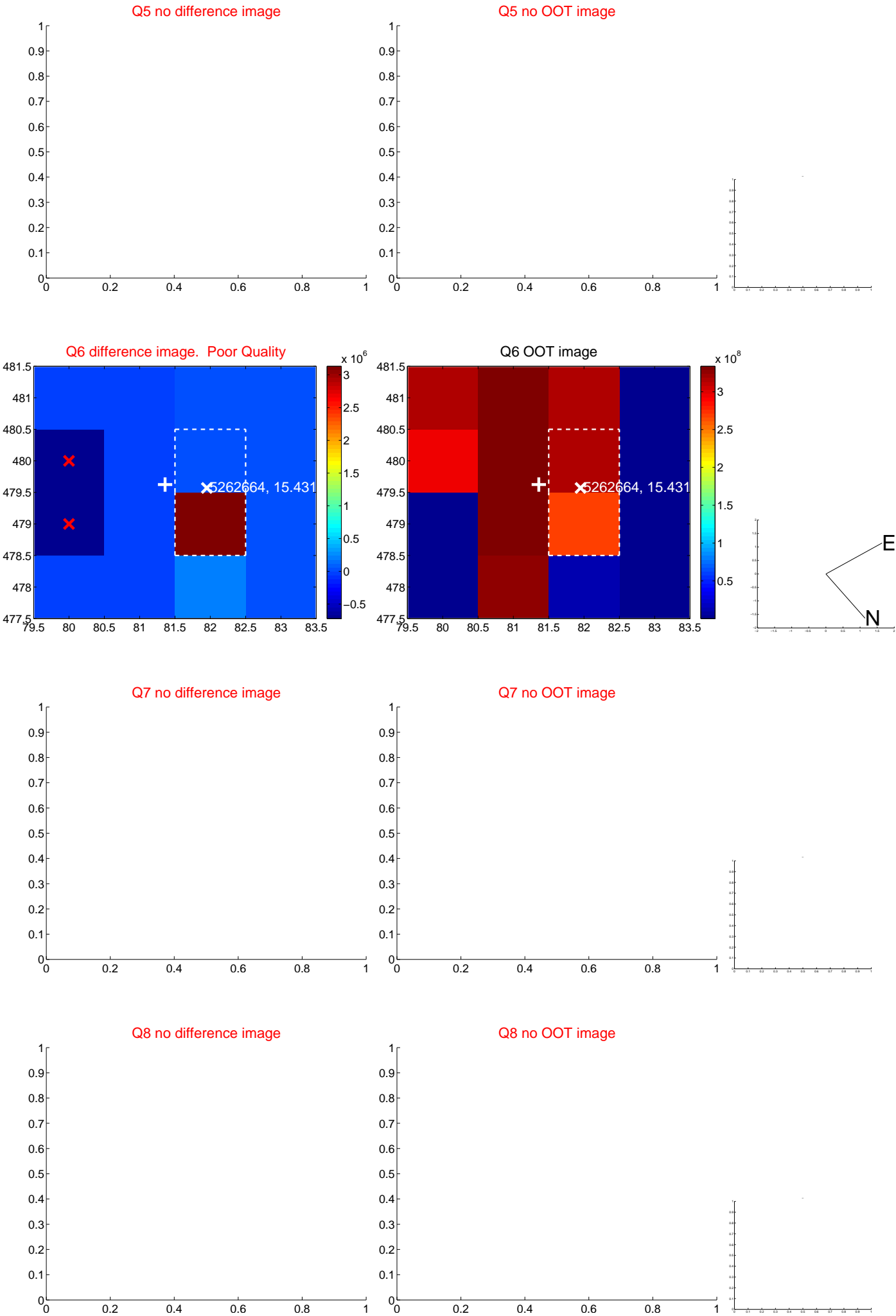


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

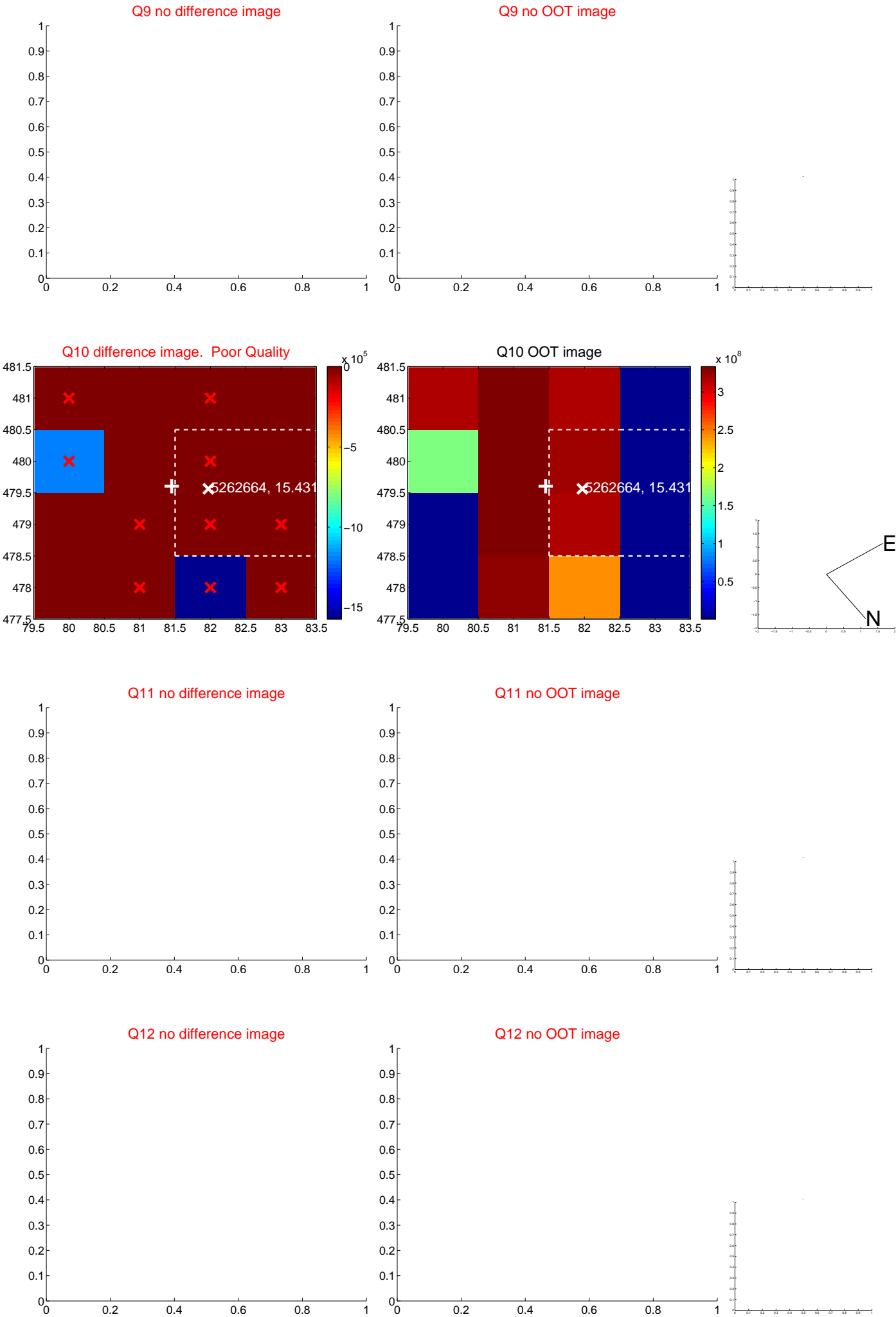
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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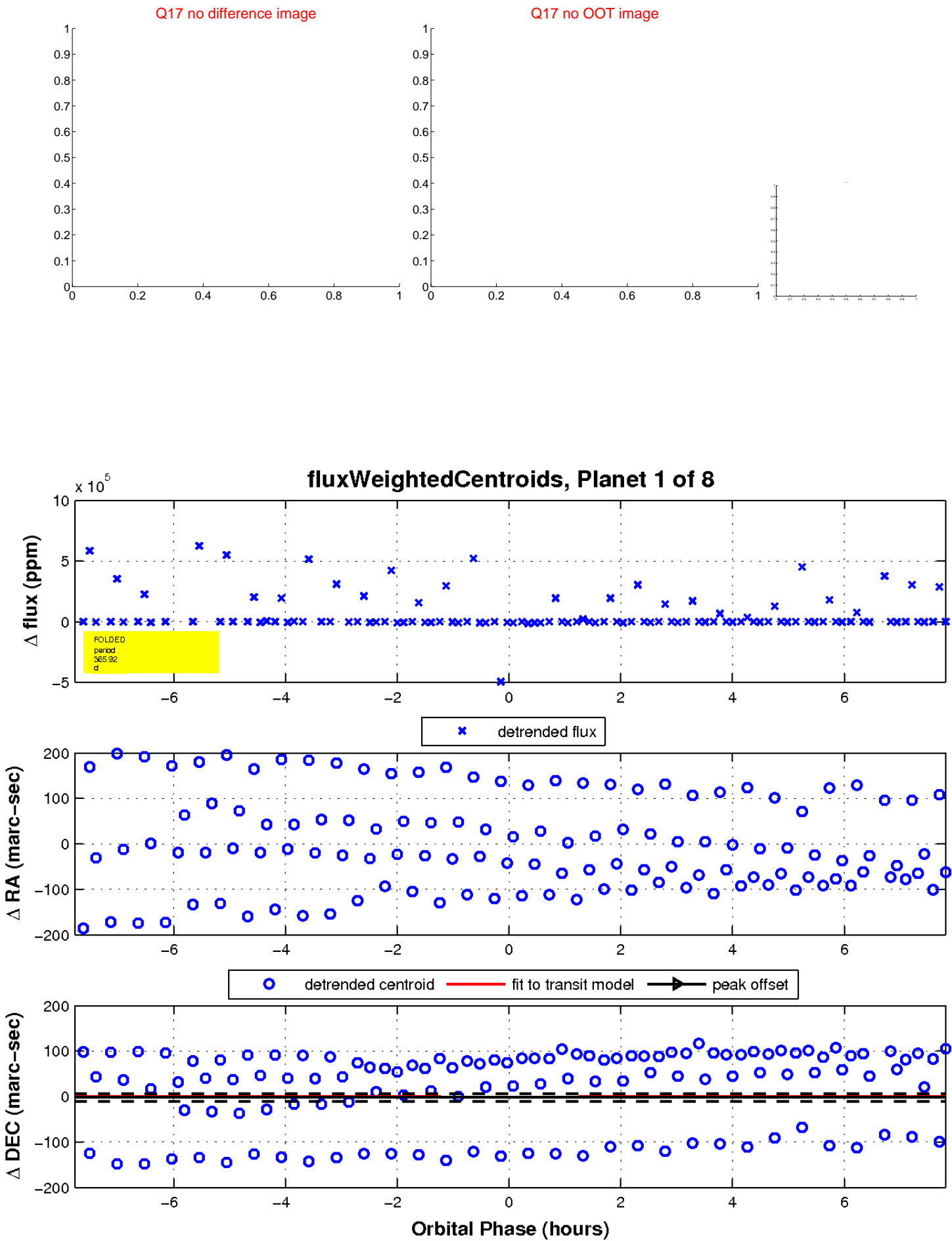
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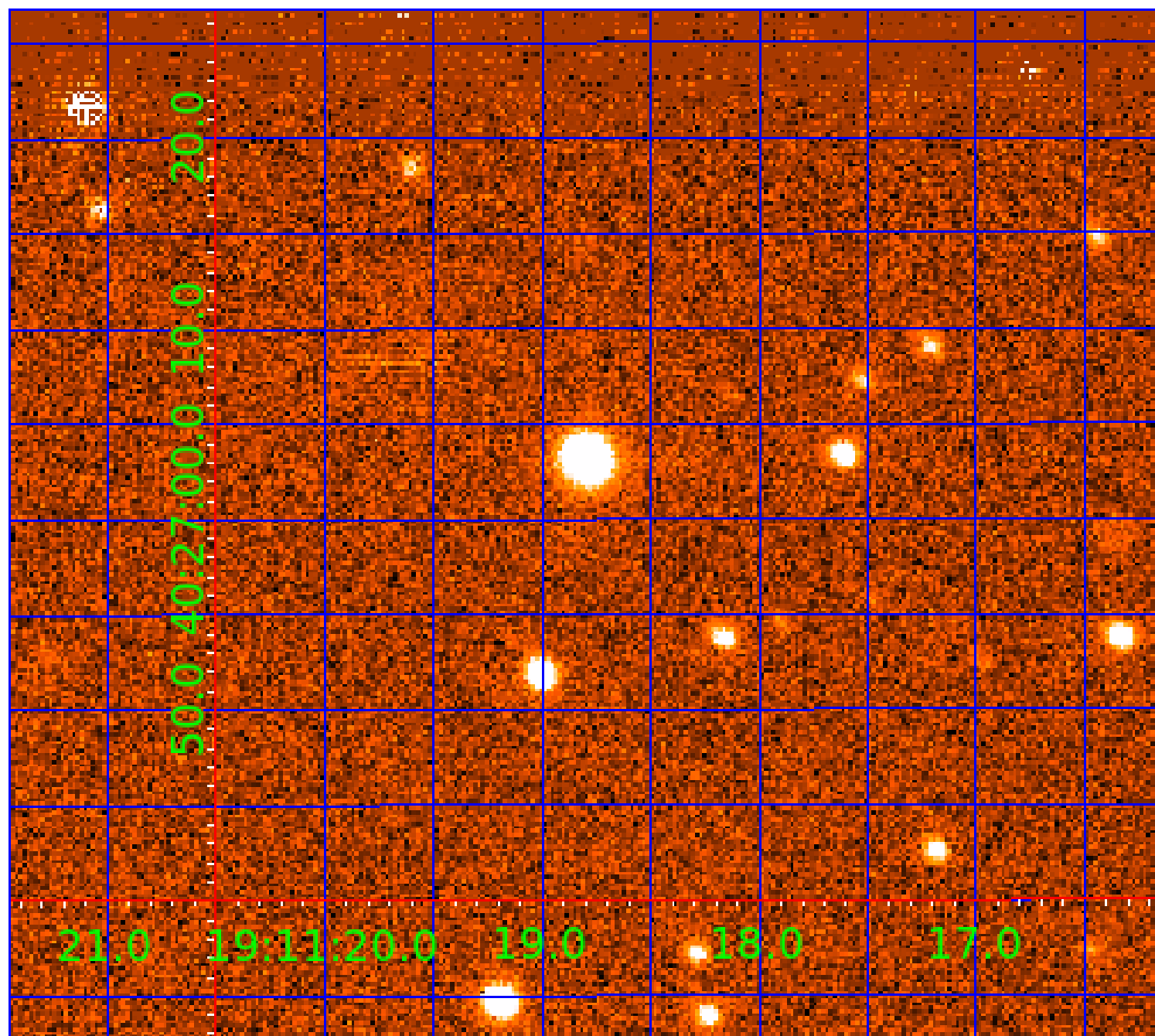


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005262664

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|-------|------|-----------------------------|-----------------|------------------------|------------------------|
| 005262664-01 | OBS | No | 365.920200 | 208.663428 | 78.8 | 2.620 | 188.6 | 1.0 | 0.65 | 4771 | 0.61 | 0.26 |
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Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|---|
| 005262664-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-02 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-07 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-08 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS |

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

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

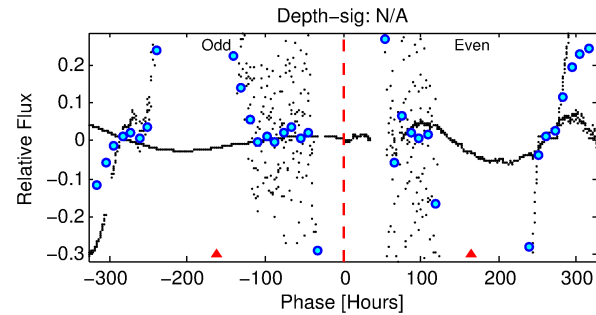
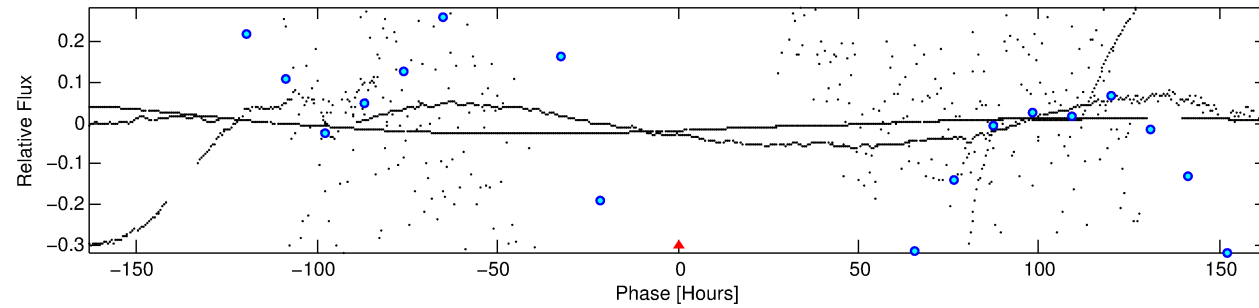
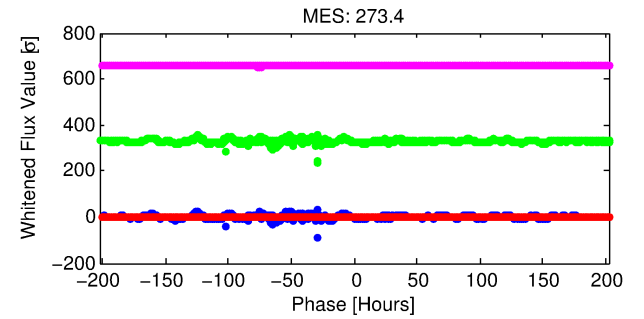
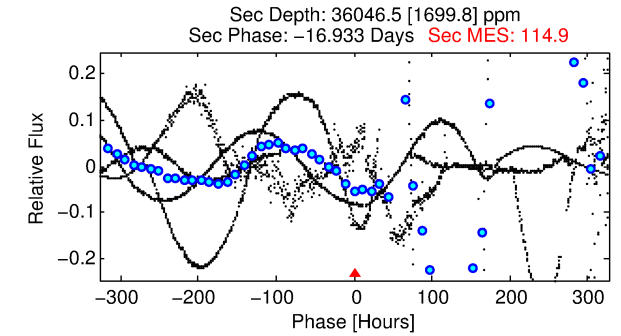
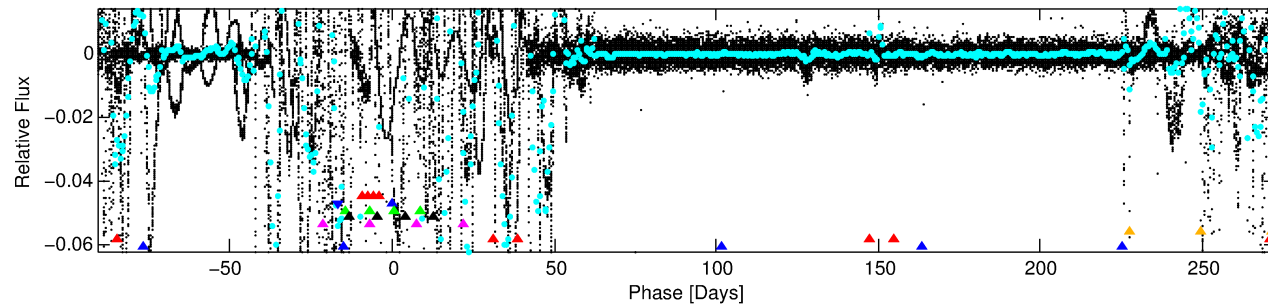
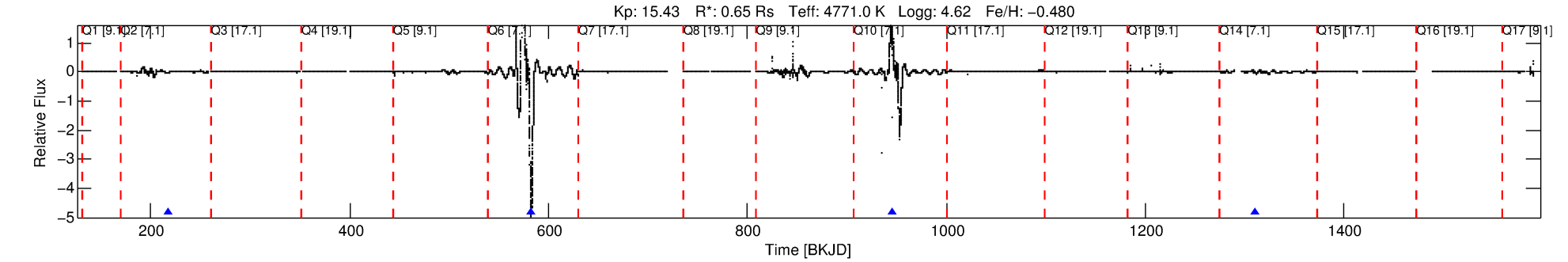
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005262664-02

No Significant Match Found

DV One-Page Summary

KIC: 5262664 Candidate: 2 of 8 Period: 364.085 d



TPS TCE Results:

Period = 364.08517 d
Epoch = 217.7883 BKJD

DV fit results are unavailable

DV Diagnostic Results:

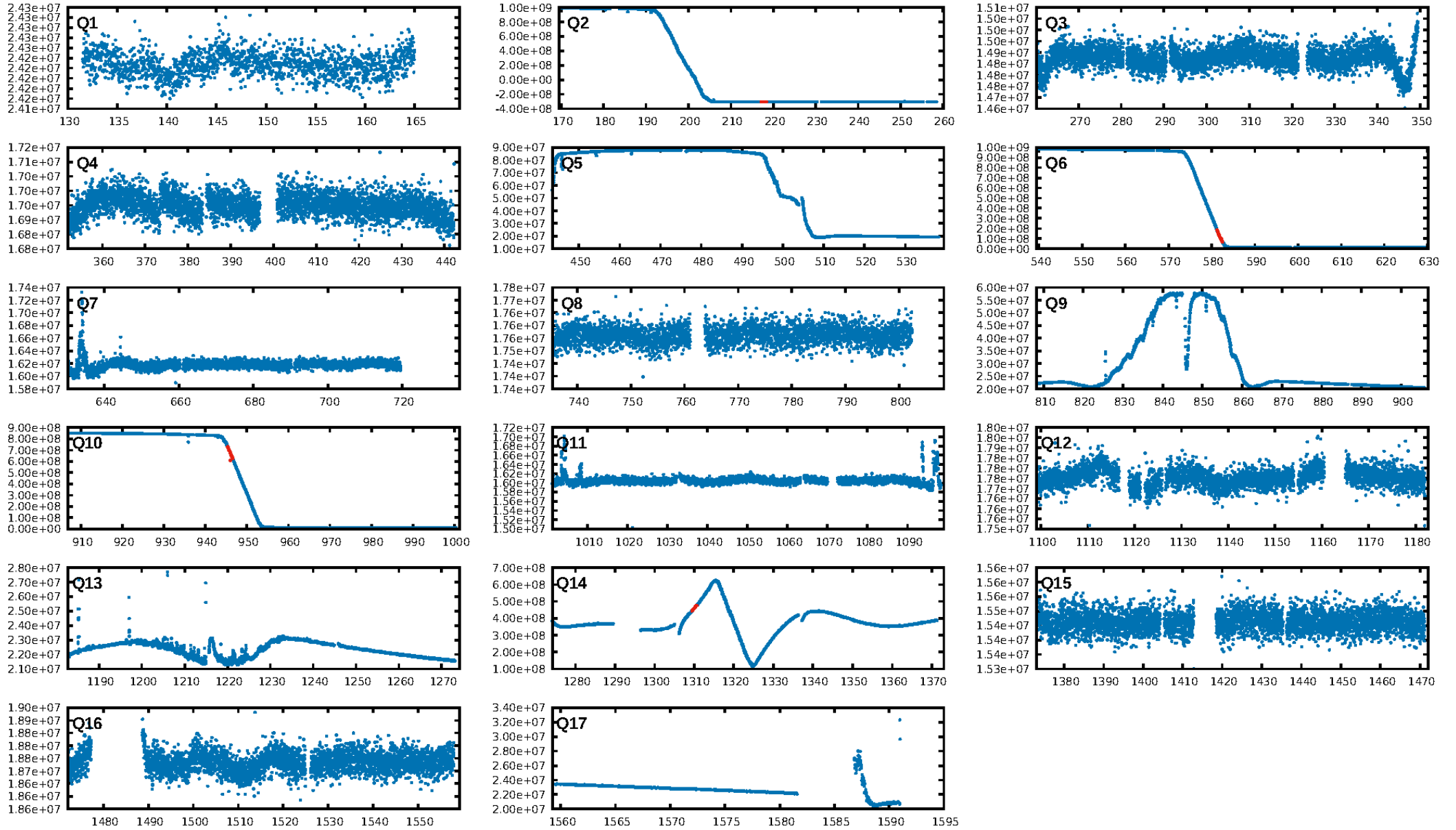
ShortPeriod-sig: 100.0% [77.31σ]
LongPeriod-sig: 99.6% [2.89σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -1.689

Centroid-sig: N/A
Centroid-so: 6.414 arcsec [2.76σ]
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KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
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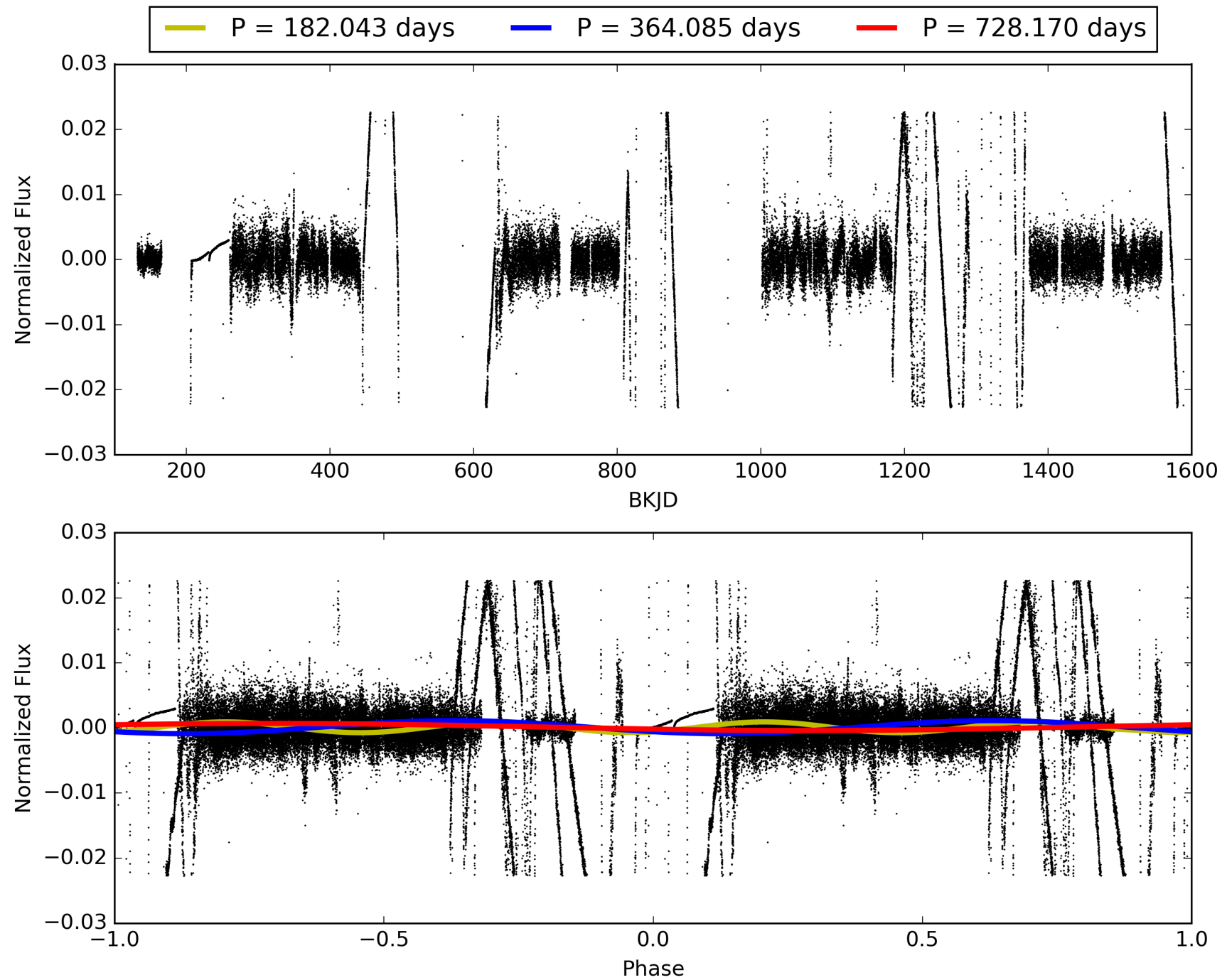
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 01:30:15 Z

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

TCE 005262664-02, PDC Light Curves

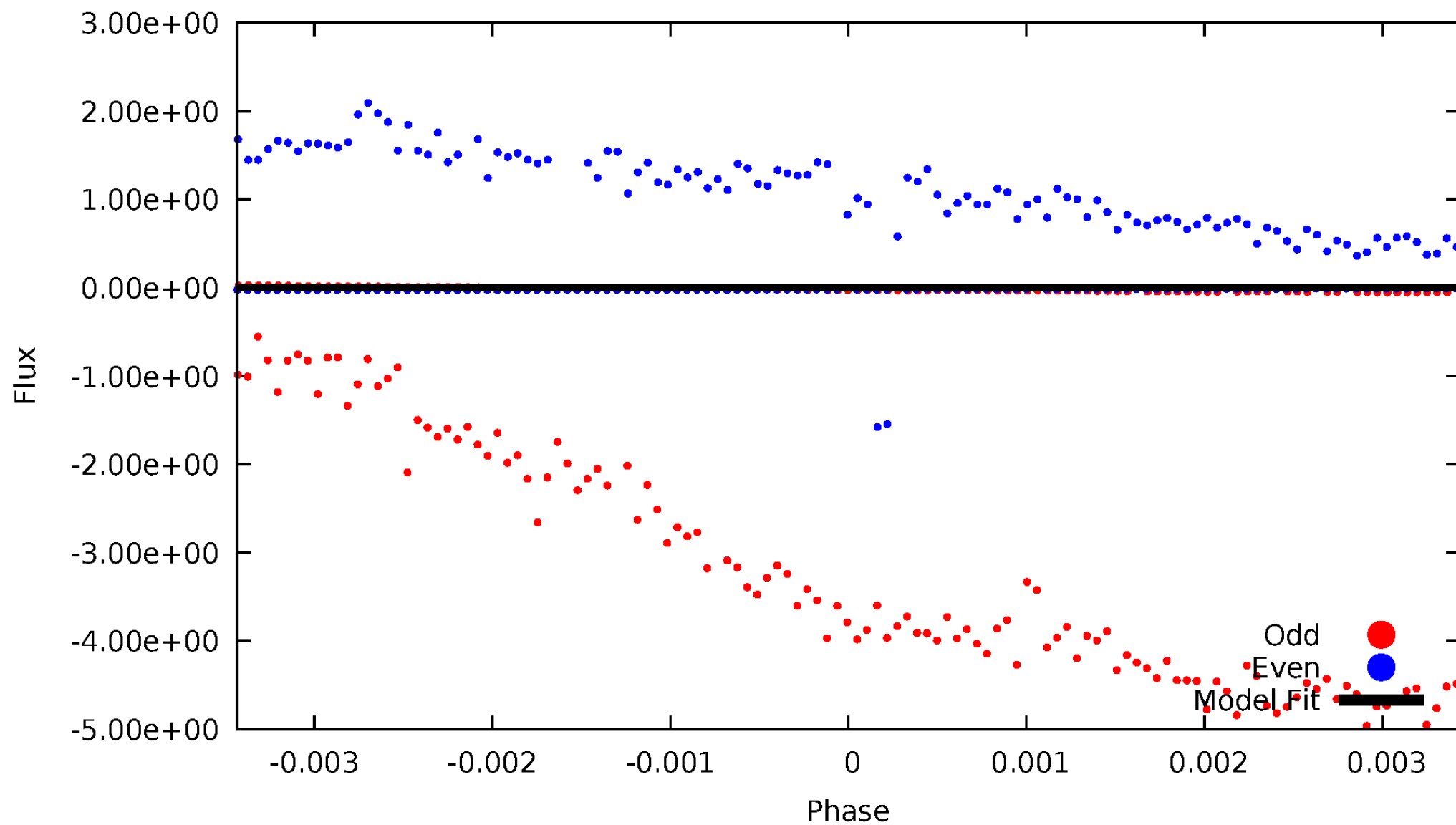


TCE 005262664-02



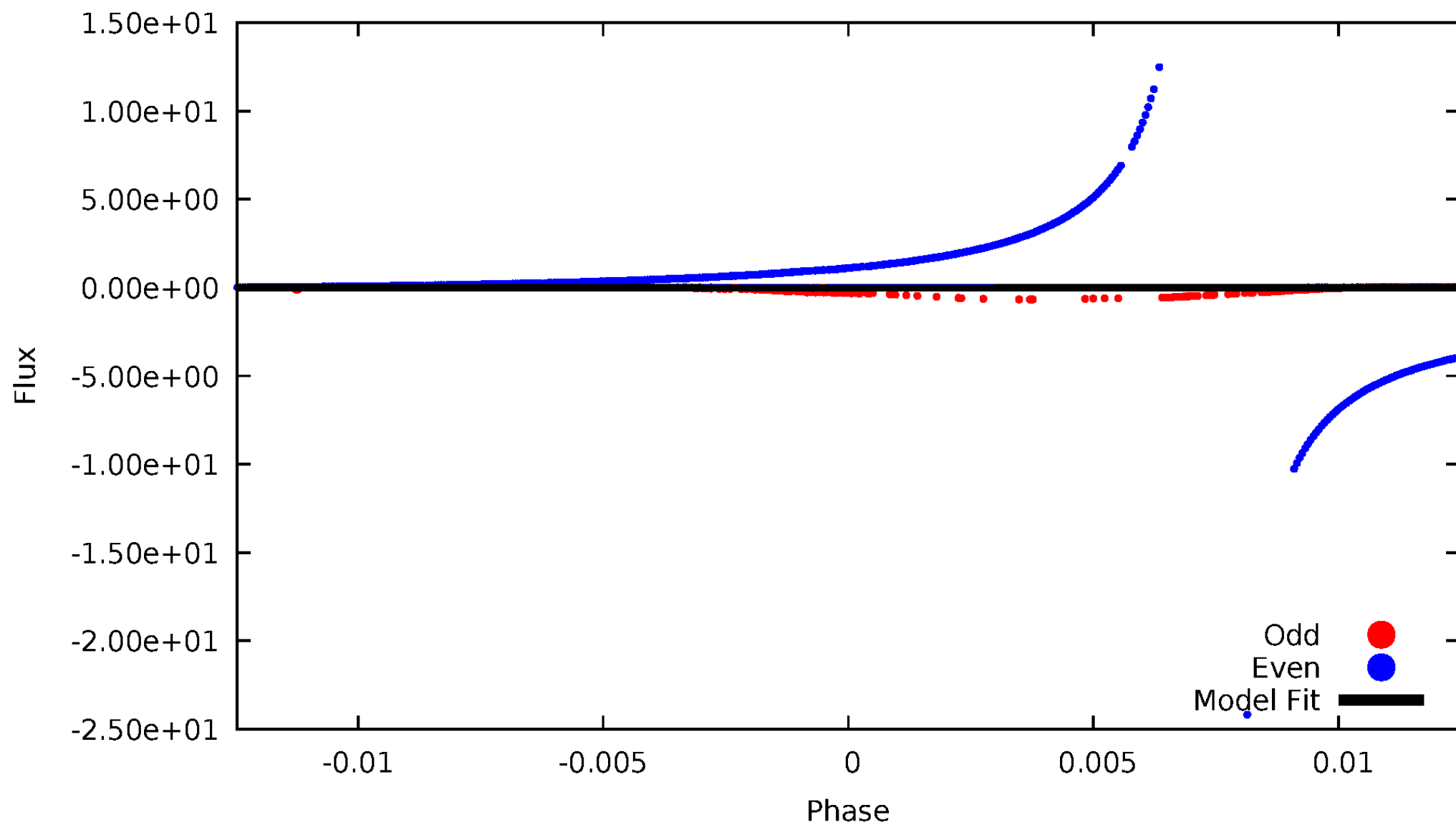
DV Odd/Even

TCE 005262664-02



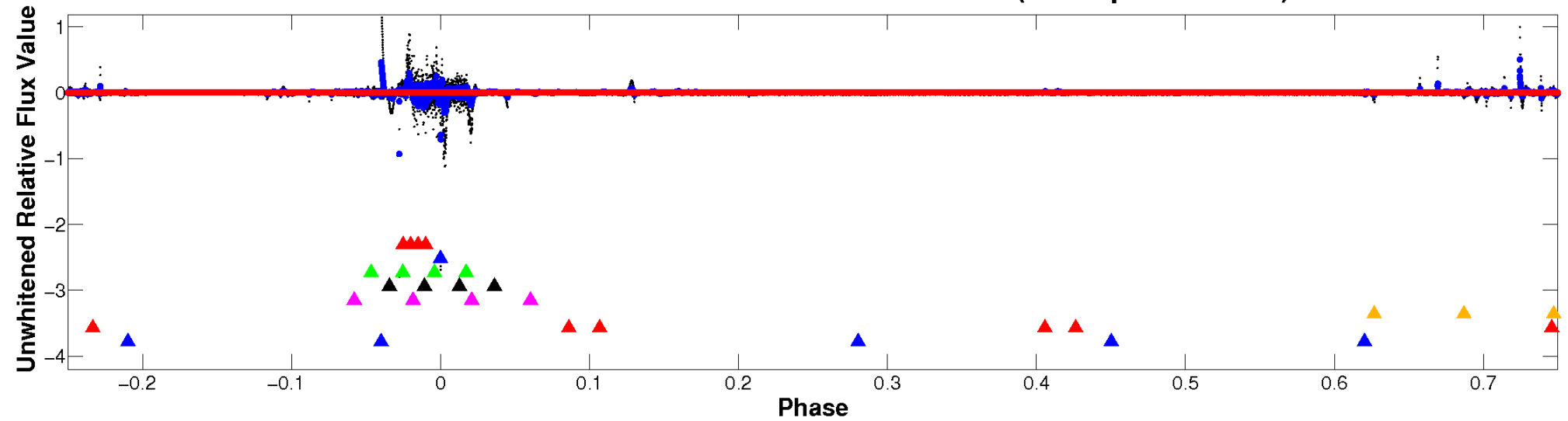
ALT Odd/Even

TCE 005262664-02

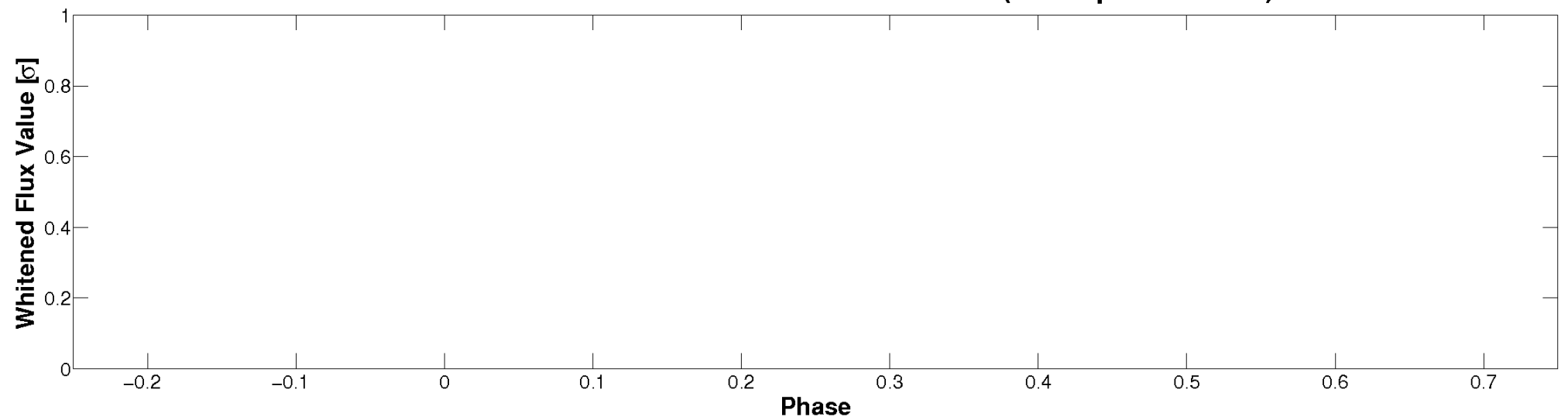


Non-Whitened Vs. Whitened Light Curve

Planet 2 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

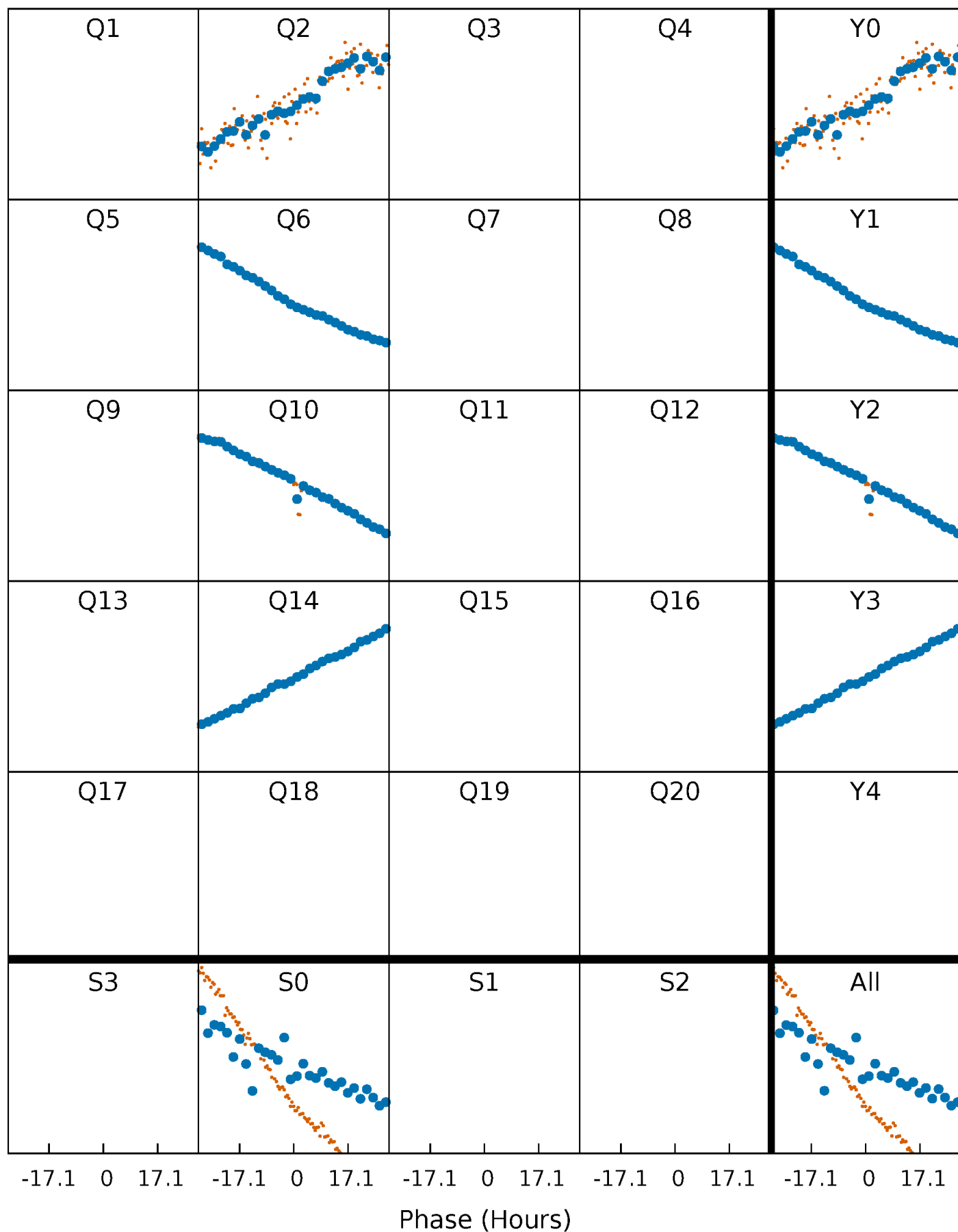


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



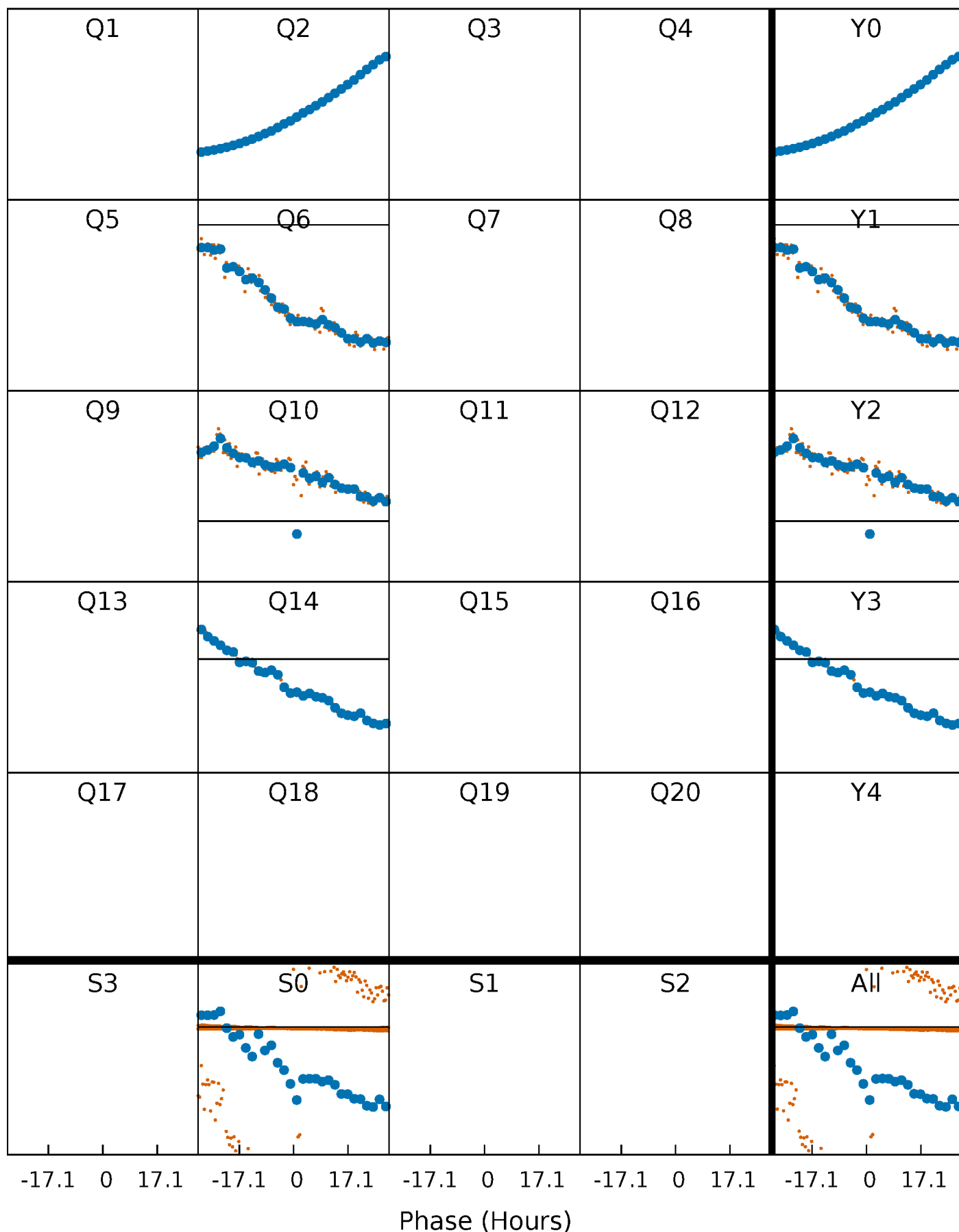
PDC Quarter-Phased Transit Curves

TCE 005262664-02 $P=364.085172$ Days $T_0=217.788295$ (BKJD)



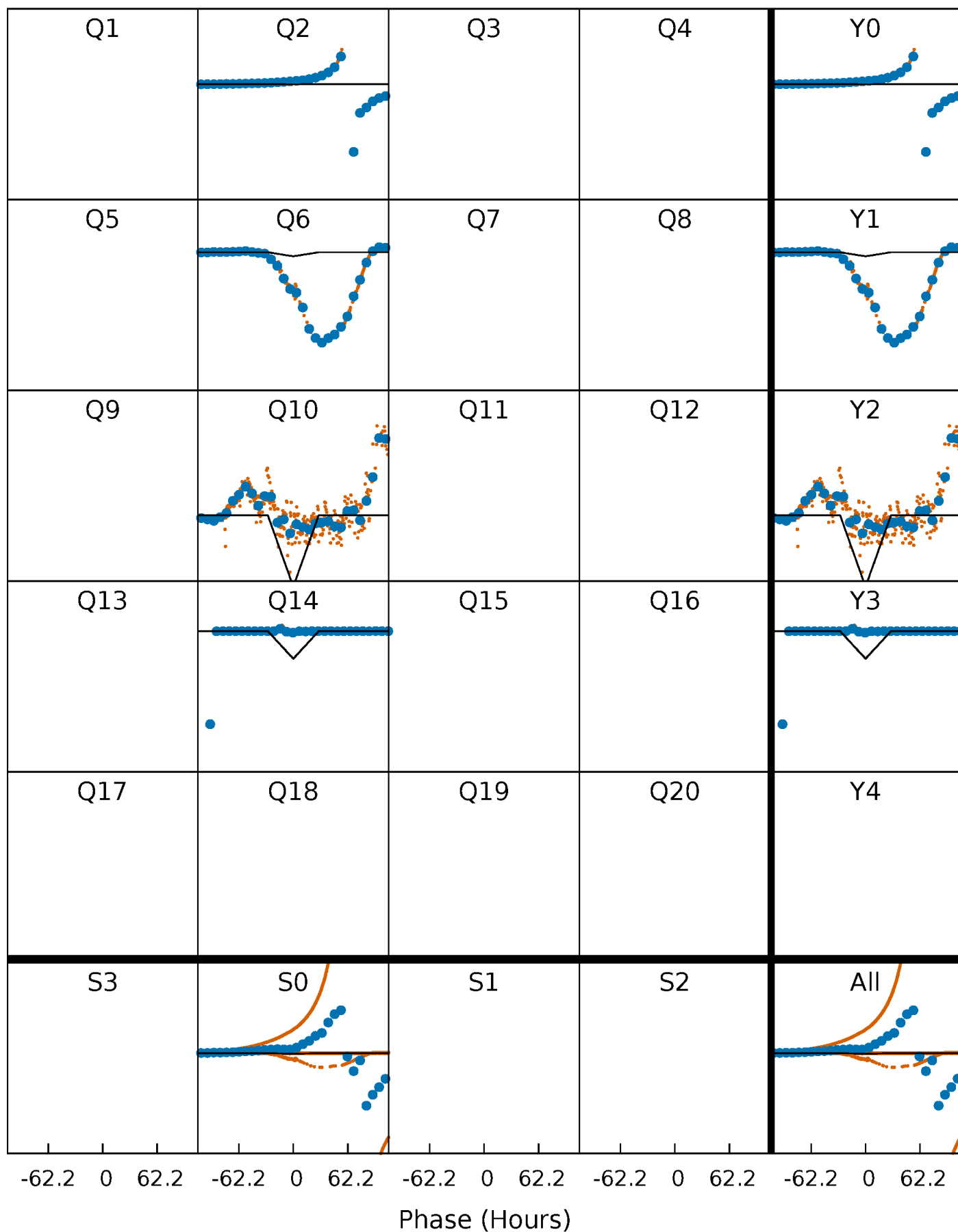
DV Quarter-Phased Transit Curves

TCE 005262664-02 P=364.085172 Days $T_0=217.788295$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

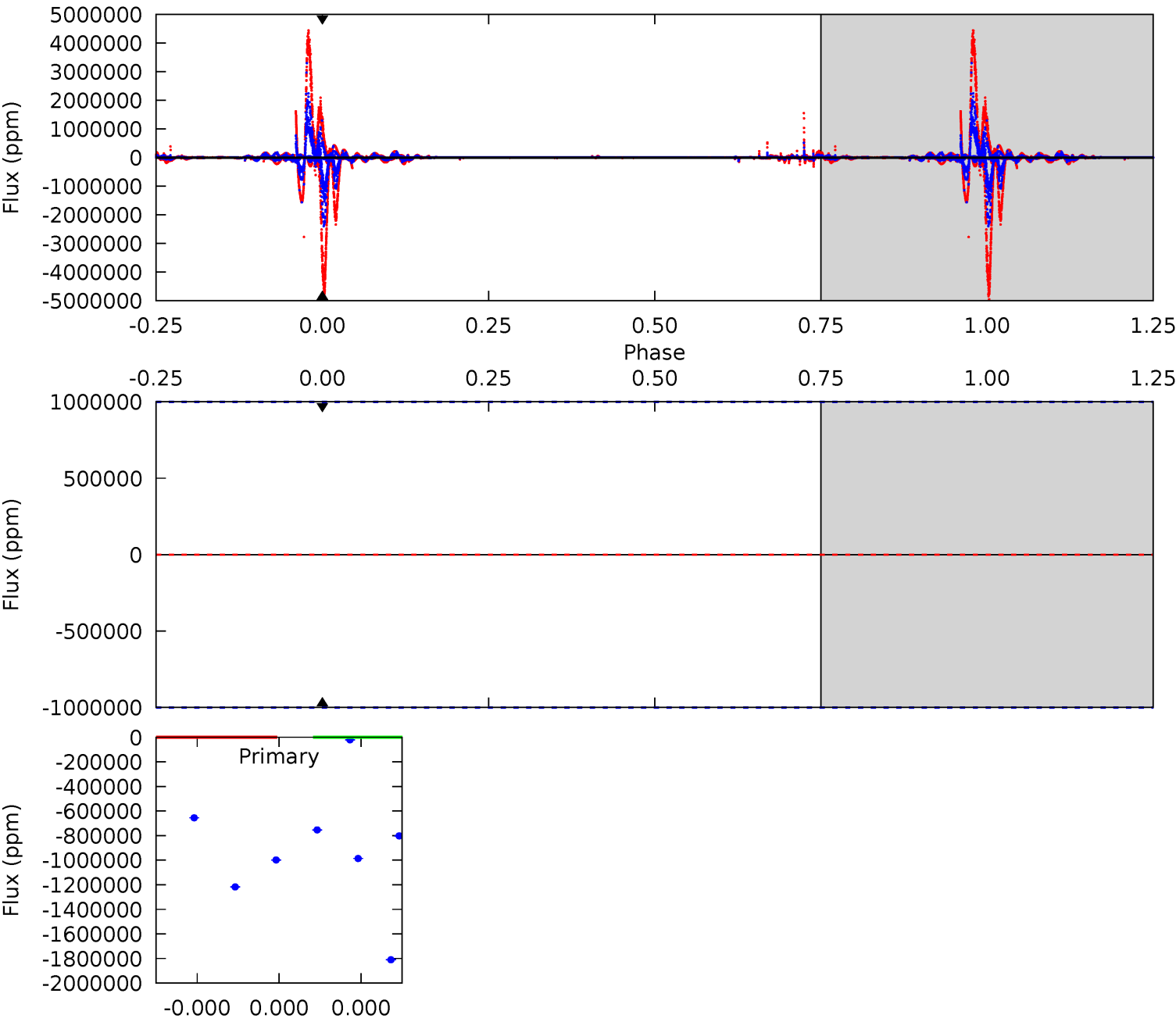
TCE 005262664-02 P=364.085172 Days $T_0=218.050696$ (BKJD)



DV Model-Shift Uniqueness Test

005262664-02, P = 364.085172 Days, E = 217.788295 Days

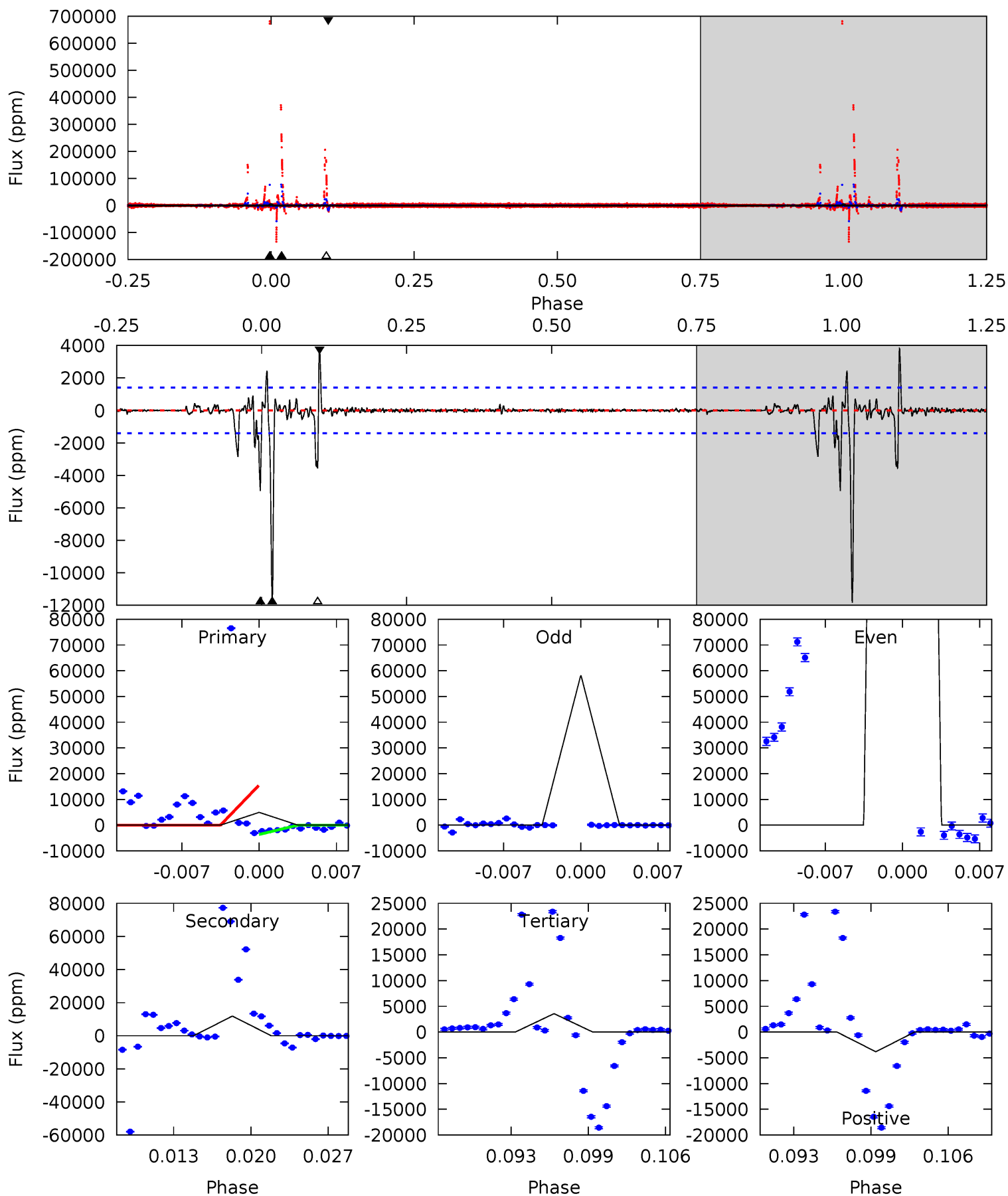
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|-----|-----|-----|-----|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|-----|-------|-----|
| 0 | 0 | 0 | 0 | 1.00 | 1.00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



Alt Model-Shift Uniqueness Test

005262664-02, P = 364.085172 Days, E = 218.050696 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|--------|-------|------|
| 18.0 | 42.9 | 12.9 | 13.8 | 5.10 | 2.71 | 1.13 | 5.06 | 4.14 | 30.0 | 29.1 | 47.5 | -110.1 | 0.24 | 14.8 |



Stellar Parameters For KIC 005262664

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | R (R_{\odot}) | $M(M_{\odot})$ | p_{\star} ($\text{g}\cdot\text{cm}^{-3}$) |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 4771^{+142}_{-128} | $4.617^{+0.054}_{-0.031}$ | $-0.480^{+0.300}_{-0.300}$ | $0.646^{+0.062}_{-0.056}$ | $0.630^{+0.082}_{-0.038}$ | $3.293^{+0.797}_{-0.481}$ |
| | +3%/-3% | +1%/-1% | +62%/-62% | +10%/-9% | +13%/-6% | +24%/-15% |
| 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 005262664-02 / KOI

| Detrend | Depth (ppm) | R_p (R_{\oplus}) | T_{max} (K) | T_{obs} (K) | A_{obs} |
|---------|------------------|-------------------------|-----------------|------------------------|----------------------------|
| DV | 0 ± 1000000 | $20.20^{+7.49}_{-7.97}$ | 254^{+9}_{-8} | 2675^{+2697}_{-7763} | $1956^{+144959}_{-115411}$ |
| Alt. | -11831 ± 276 | $13.14^{+6.94}_{-6.77}$ | 254^{+9}_{-9} | 3913^{+1244}_{-522} | 28087^{+93815}_{-15640} |

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 005262664-02. Kepler magnitude: 15.43. Transit SNR -1.00

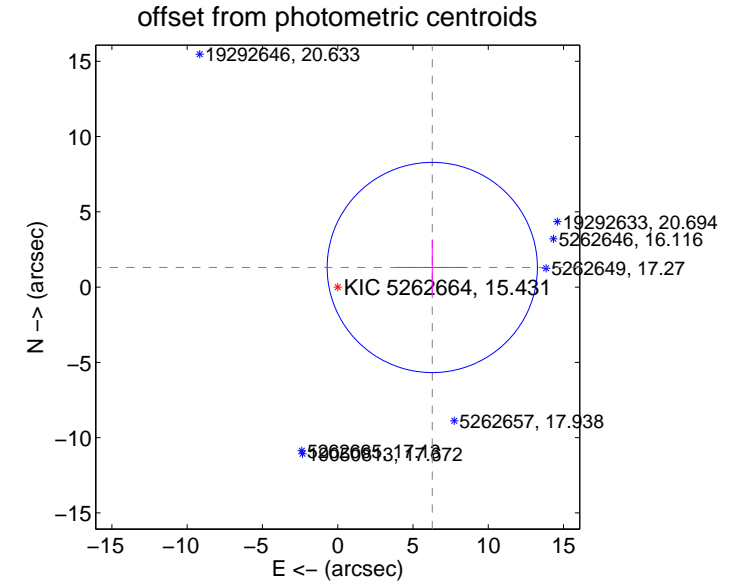
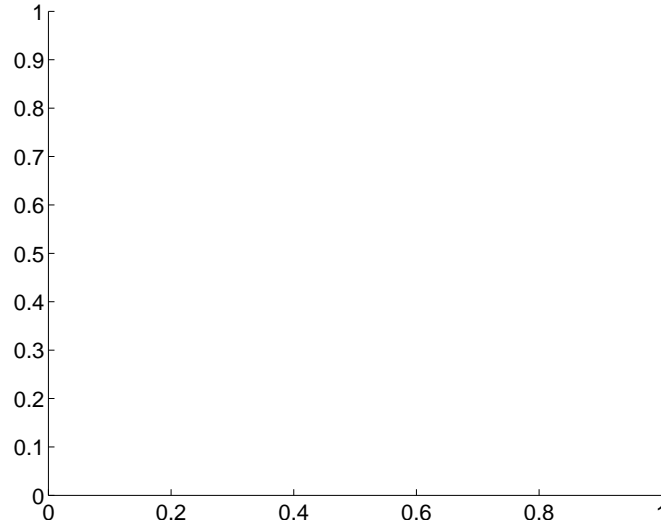
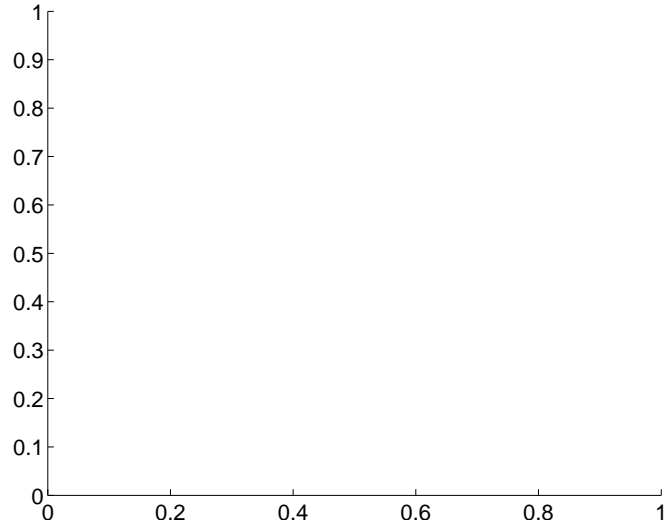
There are 0 quarters with good PRF difference image offsets

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 | 6.41 ± 2.33 | 2.76 | -6.28 ± 2.34 | 1.30 ± 1.86 |

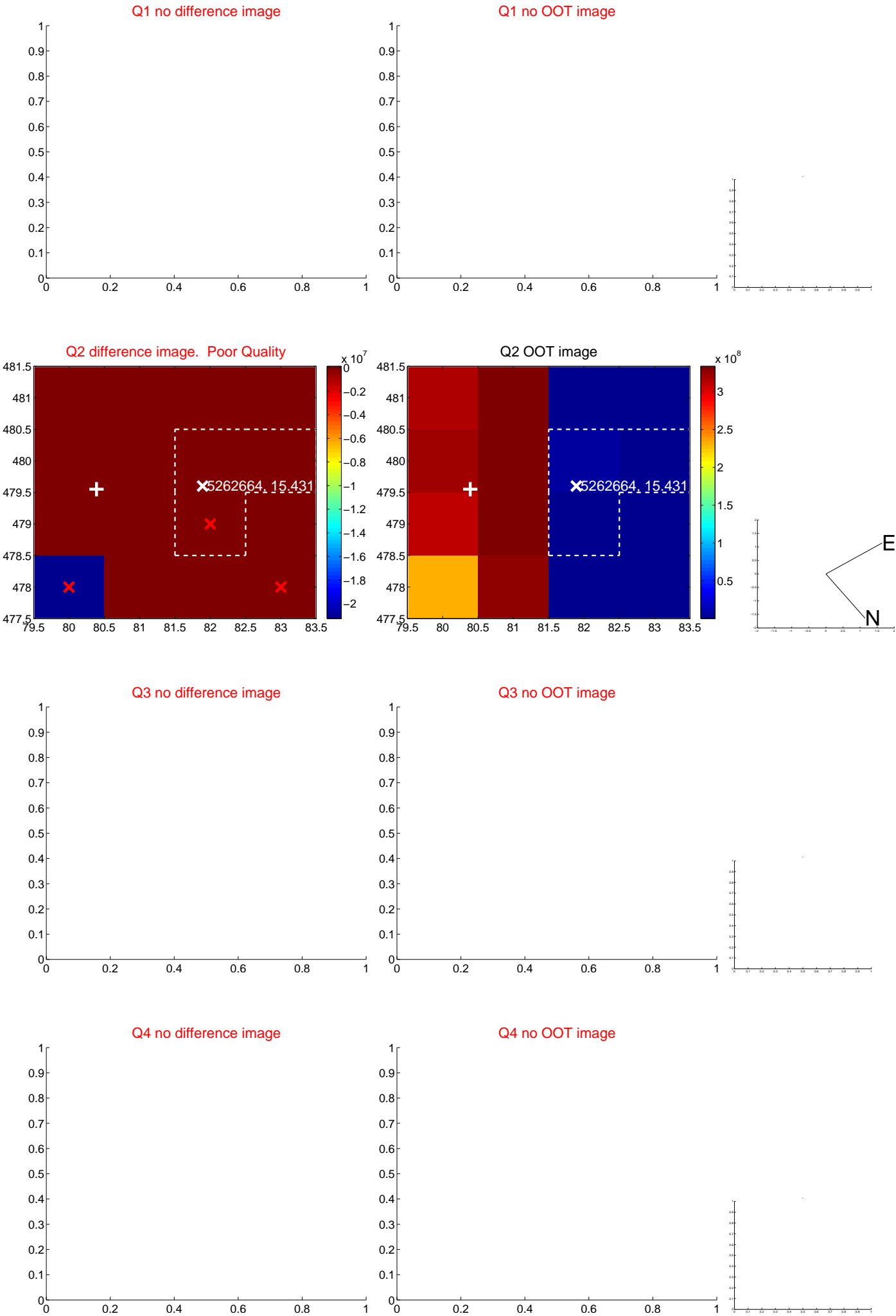
There is no PRF-fit offset from OOT-fit

There is no PRF-fit offset from KIC

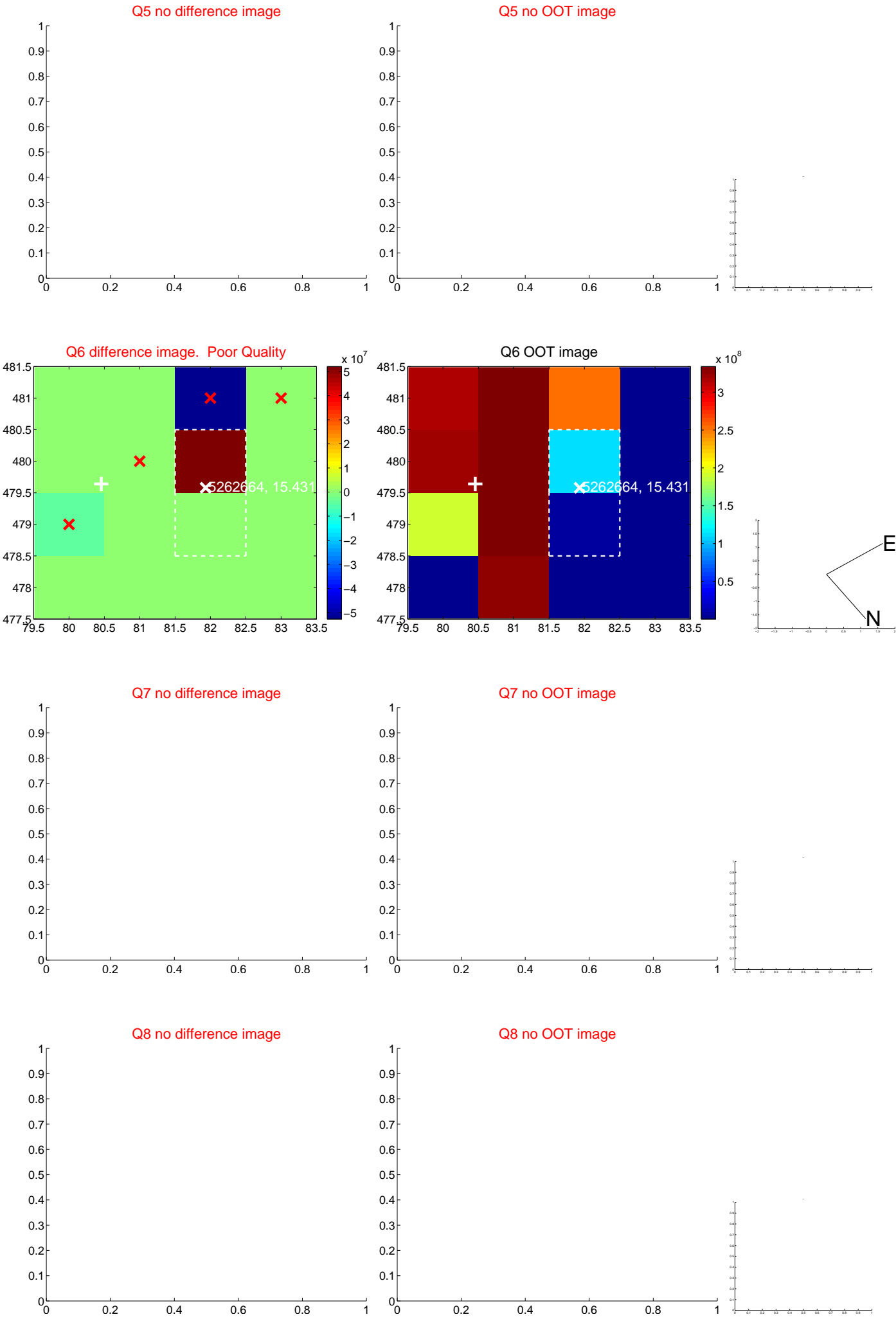


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

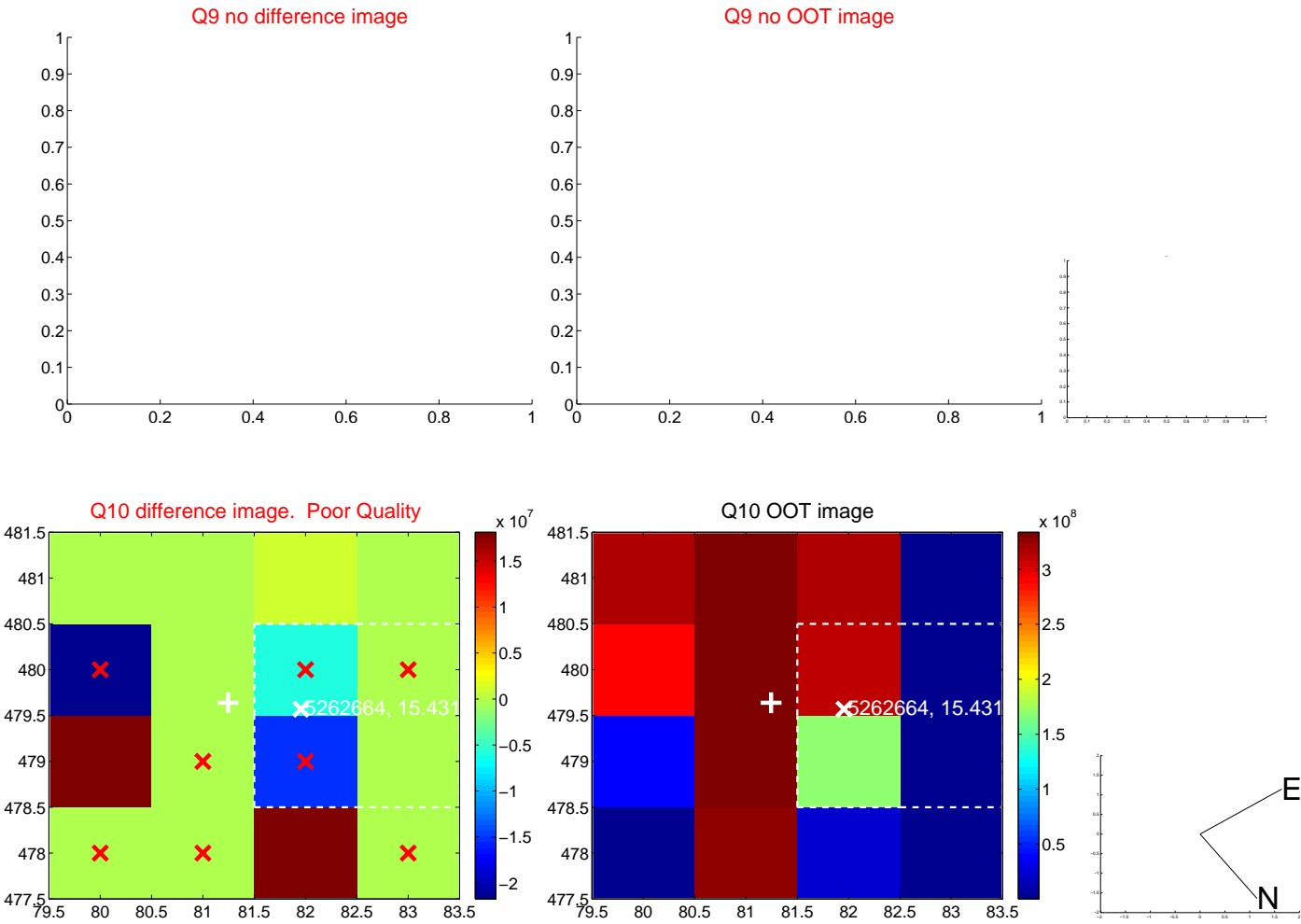
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



Q10 difference image. Poor Quality

$\times 10^7$

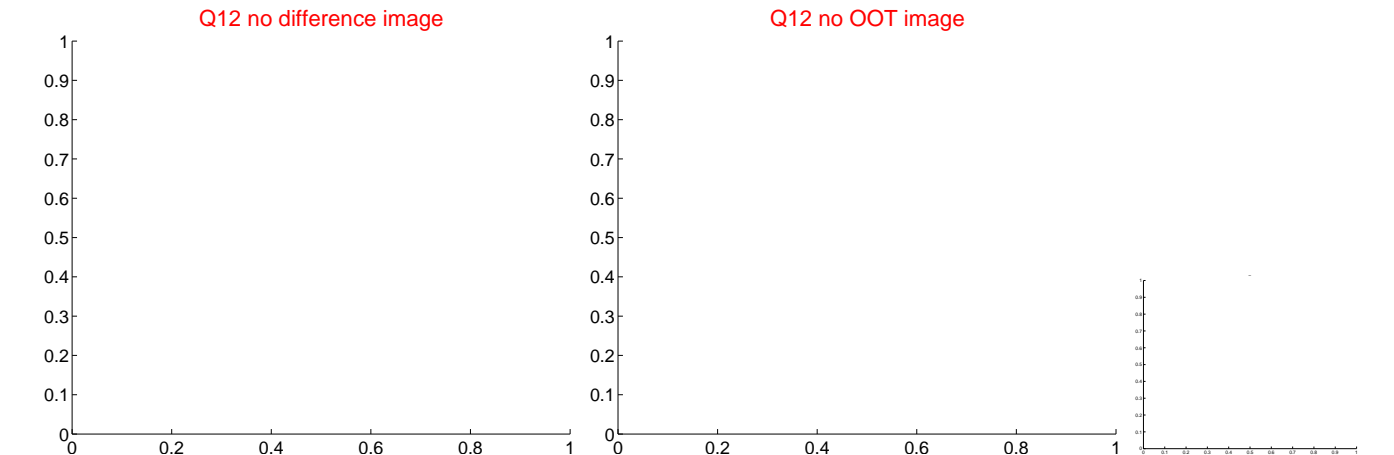
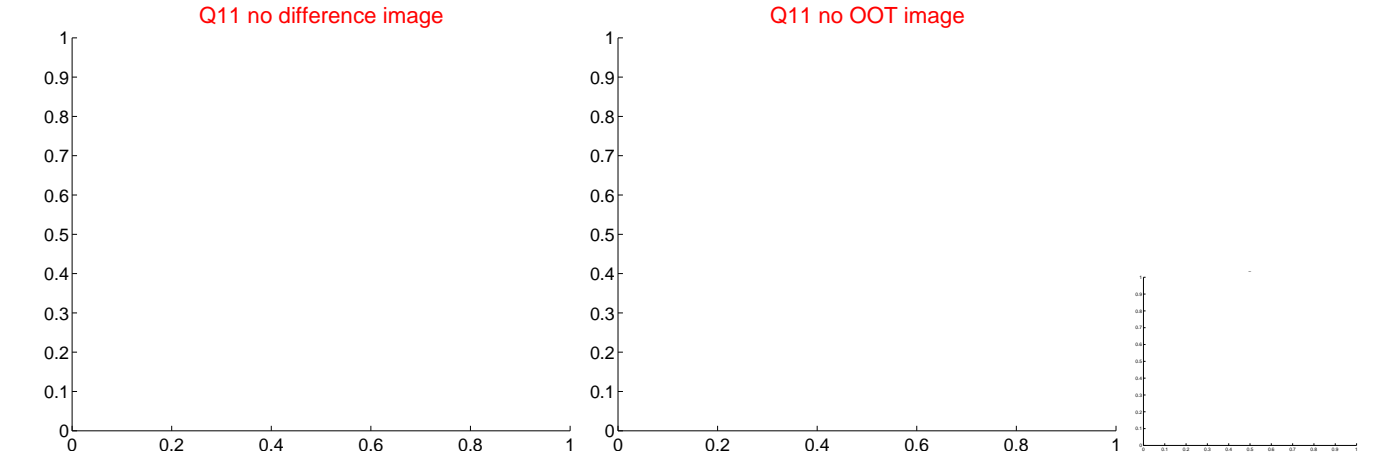
1.5
1
0.5
0
-0.5
-1
-1.5
-2

Q10 OOT image

$\times 10^8$

3
2.5
2
1.5
1
0.5

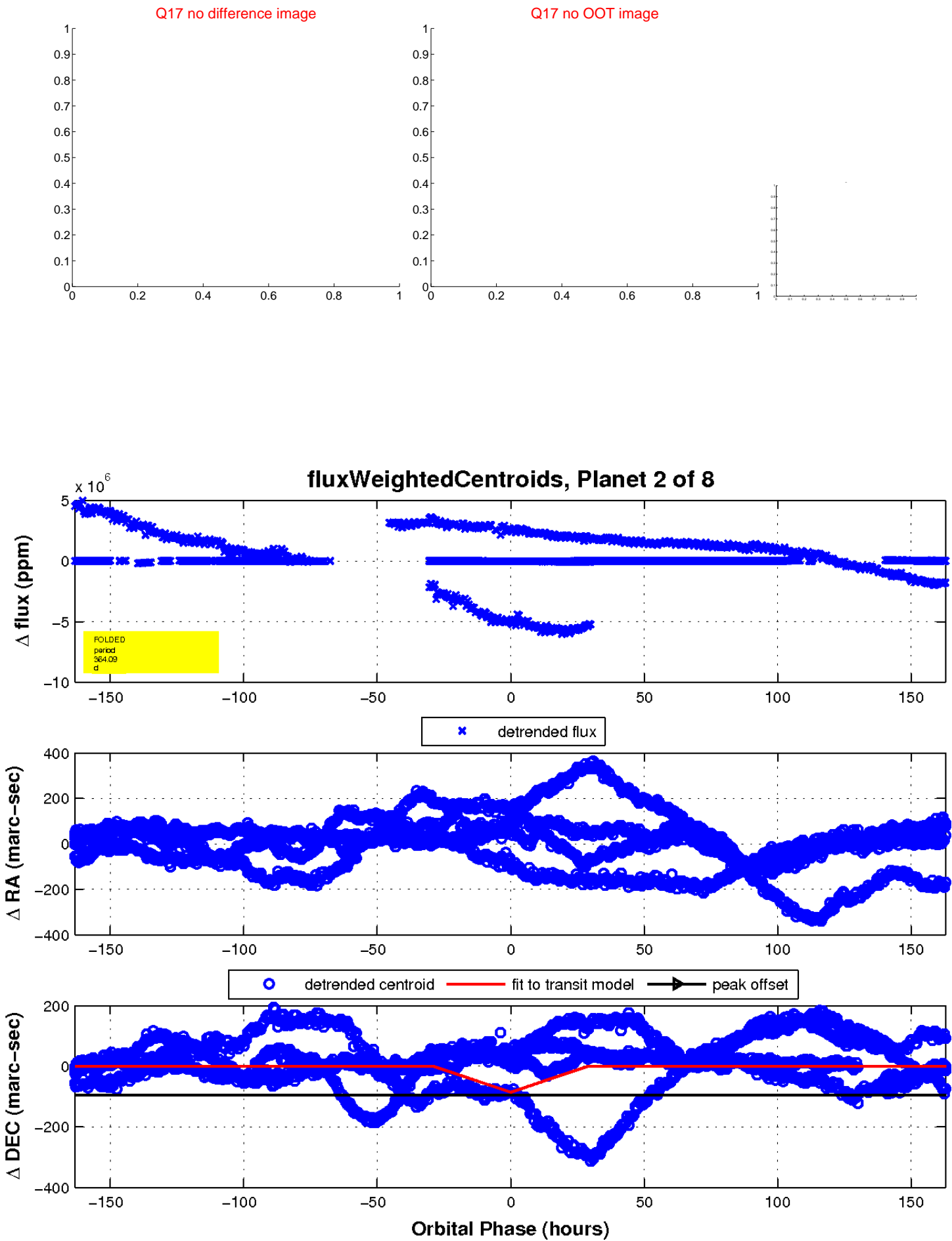
E
N



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

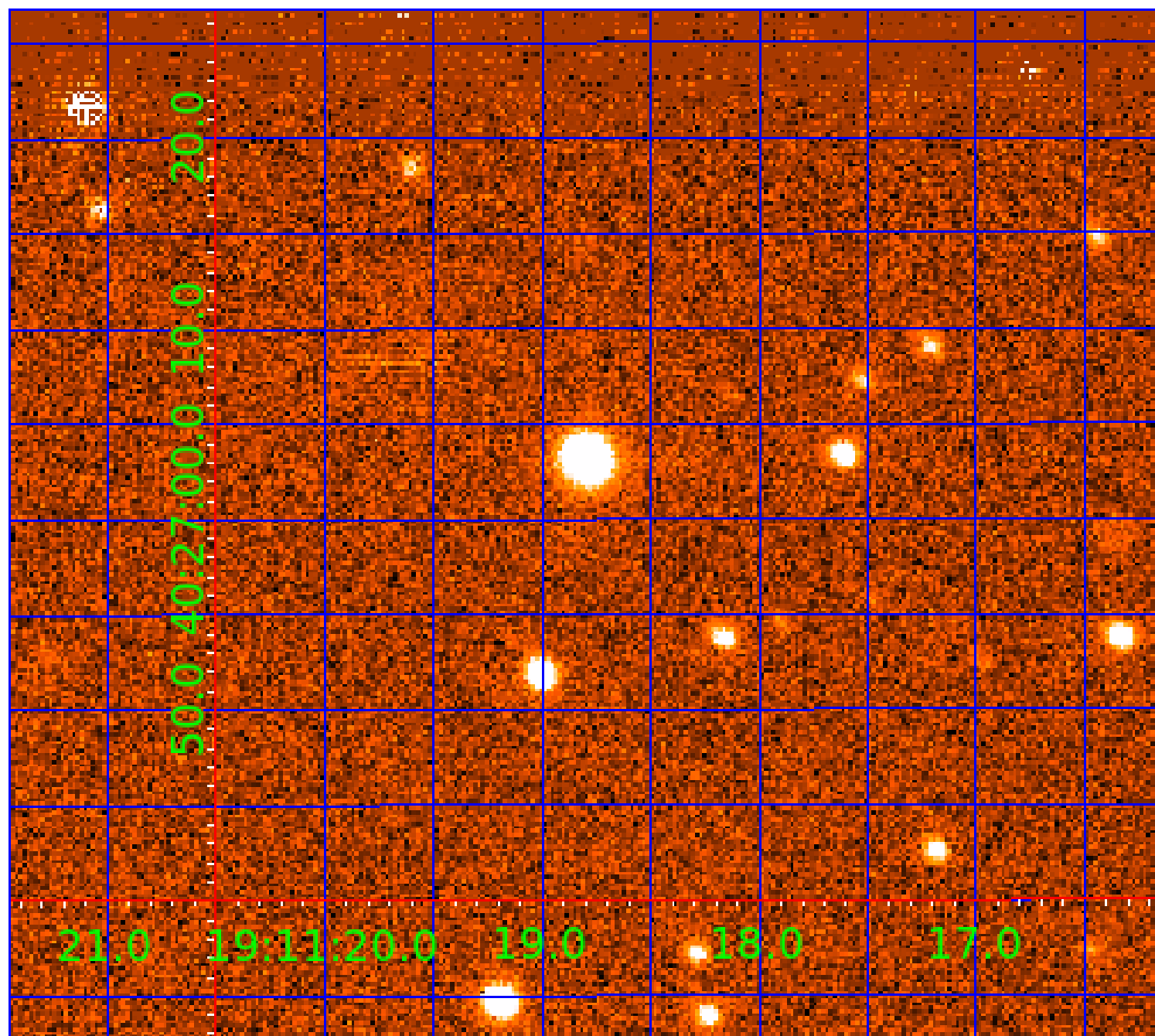


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005262664

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|-------|------|-----------------------------|-----------------|------------------------|------------------------|
| 005262664-01 | OBS | No | 365.920200 | 208.663428 | 78.8 | 2.620 | 188.6 | 1.0 | 0.65 | 4771 | 0.61 | 0.26 |
| 005262664-02 | OBS | No | 364.085172 | 217.788295 | 103607.9 | 15.000 | 273.4 | -1.0 | 0.65 | 4771 | 20.22 | 0.27 |
| 005262664-03 | OBS | No | 371.822680 | 200.842063 | 68946.7 | 15.000 | 217.5 | -1.0 | 0.65 | 4771 | 16.46 | 0.26 |
| 005262664-04 | OBS | No | 372.640023 | 205.317013 | 772566.2 | 15.000 | 204.8 | -1.0 | 0.65 | 4771 | 19.45 | 0.26 |
| 005262664-05 | OBS | No | 378.445434 | 196.712296 | 168223.1 | 91.262 | 142.0 | 32.9 | 0.65 | 4771 | 45.21 | 0.25 |
| 005262664-06 | OBS | No | 386.021749 | 445.972289 | 79375.7 | 5.327 | 137.9 | 90.3 | 0.65 | 4771 | 17.66 | 0.24 |
| 005262664-07 | OBS | No | 240.211680 | 256.692238 | 1349.8 | 49.443 | 115.3 | 10.0 | 0.65 | 4771 | 3.06 | 0.46 |
| 005262664-08 | OBS | No | 302.205541 | 203.283873 | 19853.1 | 12.000 | 54.9 | -1.0 | 0.65 | 4771 | 8.81 | 0.34 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|---|
| 005262664-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-02 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-07 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-08 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—INCONSISTENT_TRANS—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.

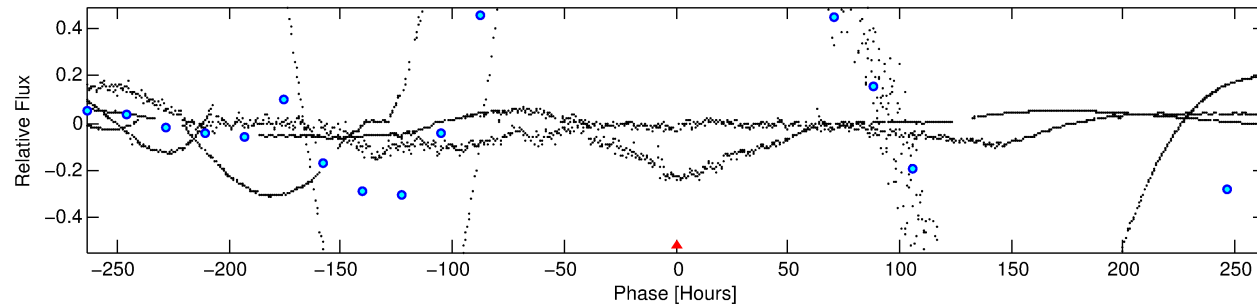
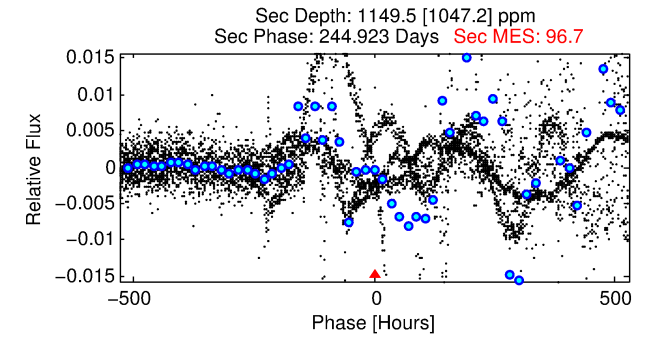
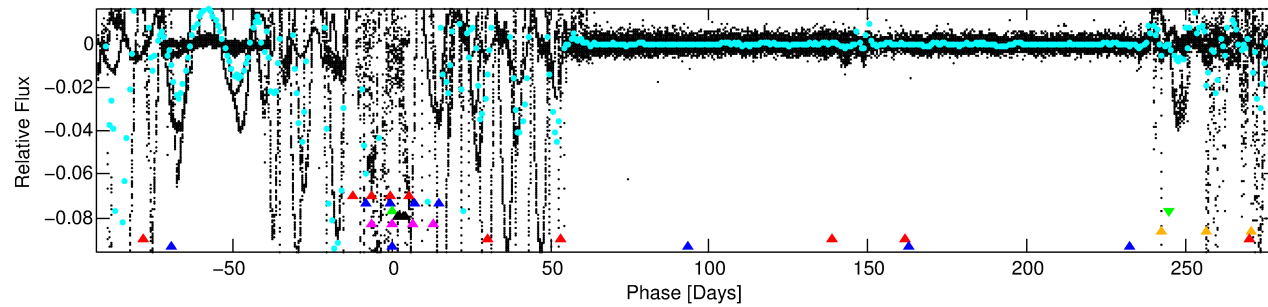
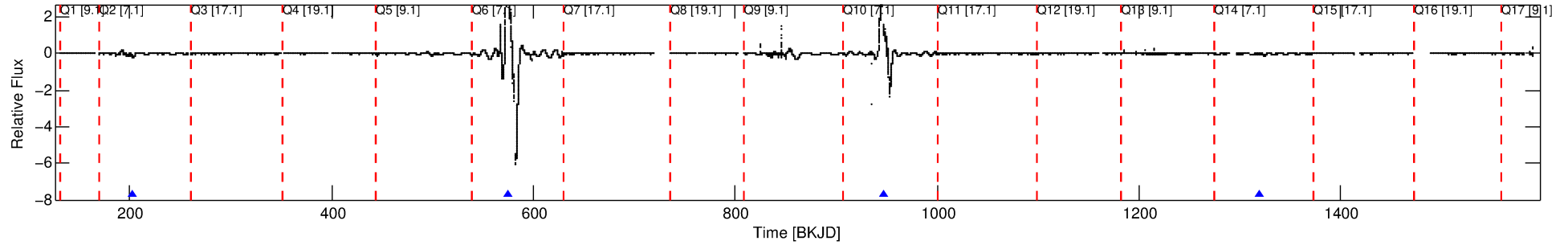
Ephemeris Match Information For 005262664-03

No Significant Match Found

DV One-Page Summary

KIC: 5262664 Candidate: 3 of 8 Period: 371.823 d

Kp: 15.43 R*: 0.65 Rs Teff: 4771.0 K Logg: 4.62 Fe/H: -0.480



TPS TCE Results:

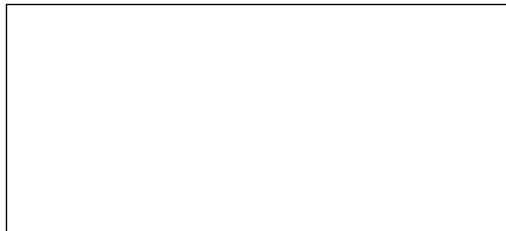
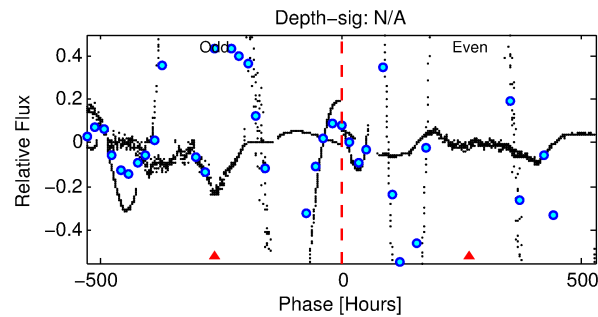
Period = 371.82268 d
Epoch = 200.8421 BKJD

DV fit results are unavailable

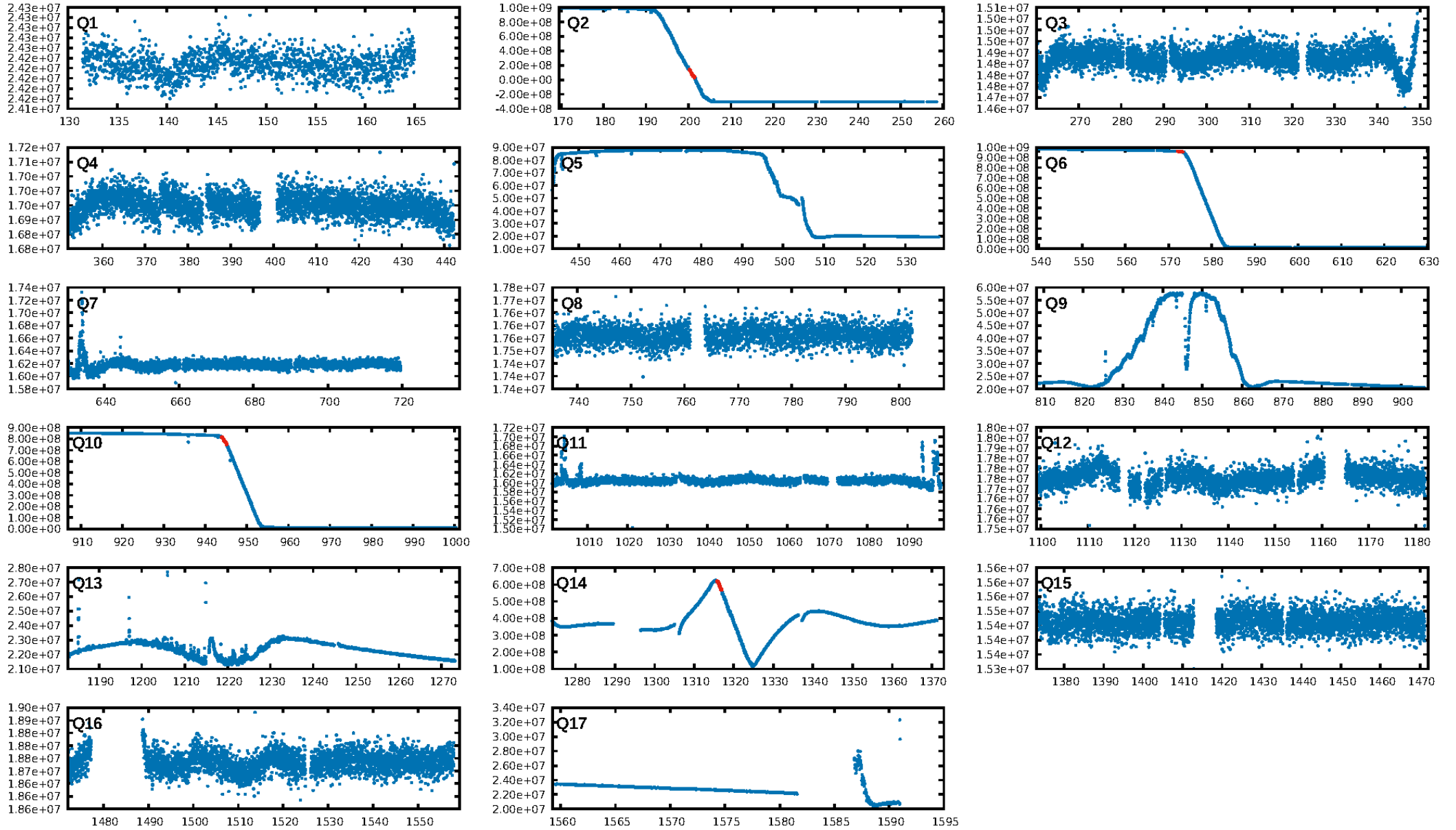
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [9.30 σ]
LongPeriod-sig: 64.5% [0.92 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -2.331

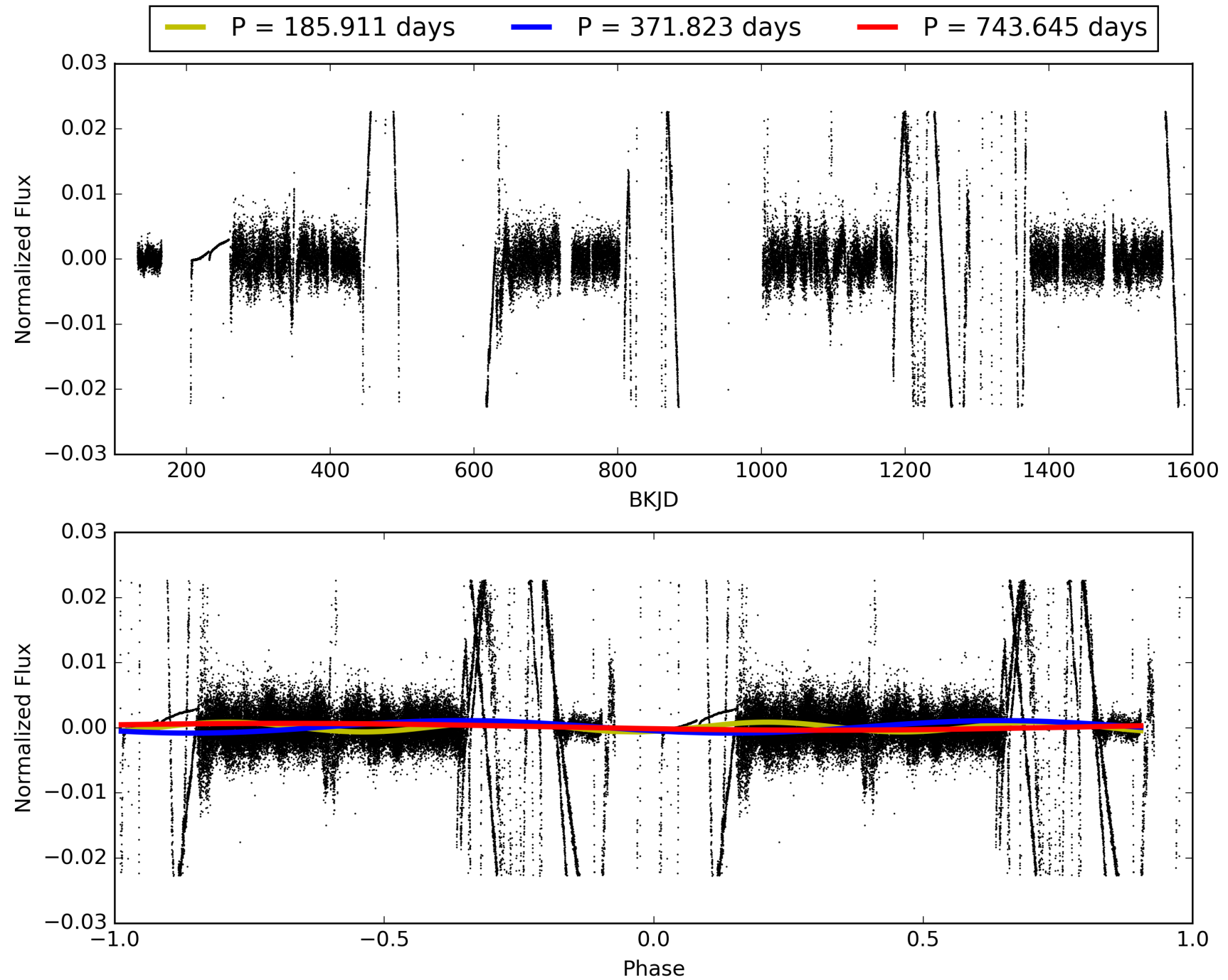
Centroid-sig: N/A
Centroid-so: 1.062 arcsec [0.64 σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 0.00 [0/3]



TCE 005262664-03, PDC Light Curves

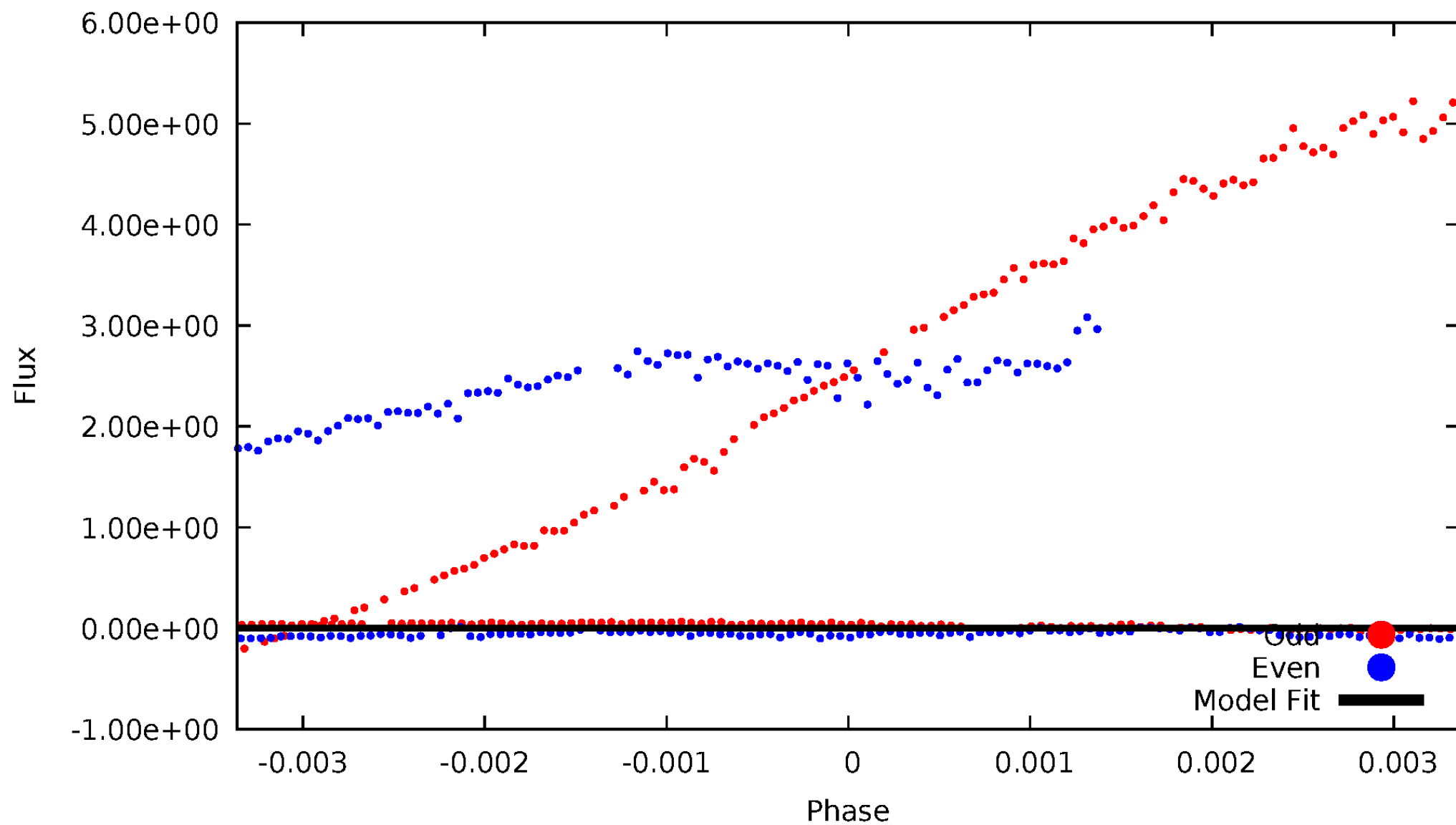


TCE 005262664-03



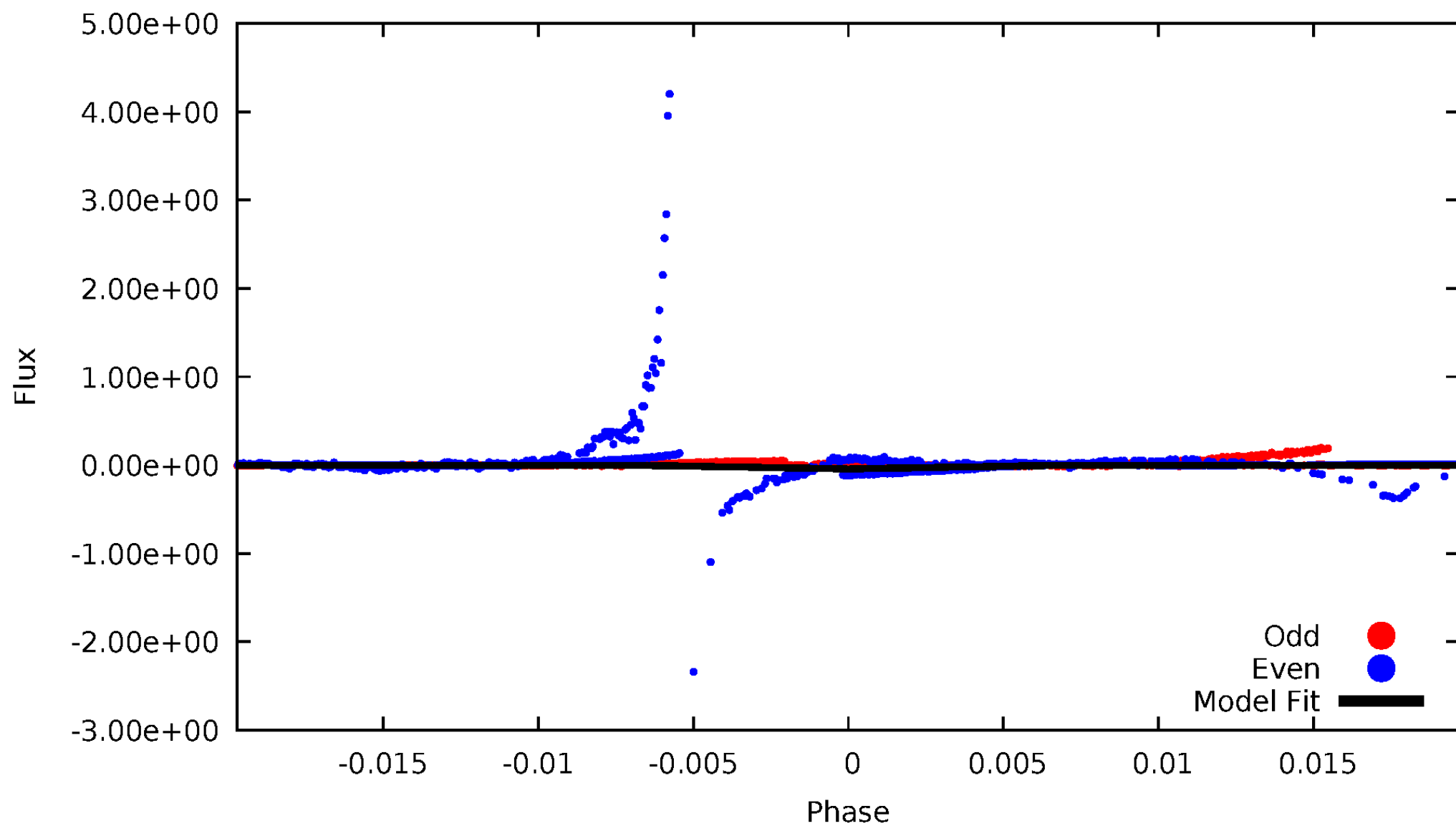
DV Odd/Even

TCE 005262664-03



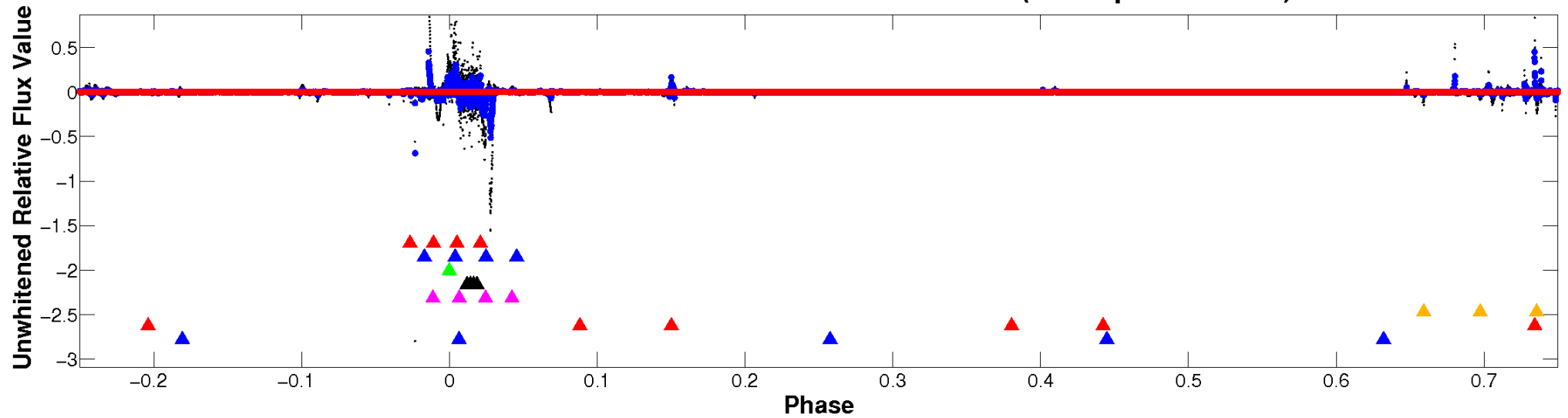
ALT Odd/Even

TCE 005262664-03



Non-Whitened Vs. Whitened Light Curve

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

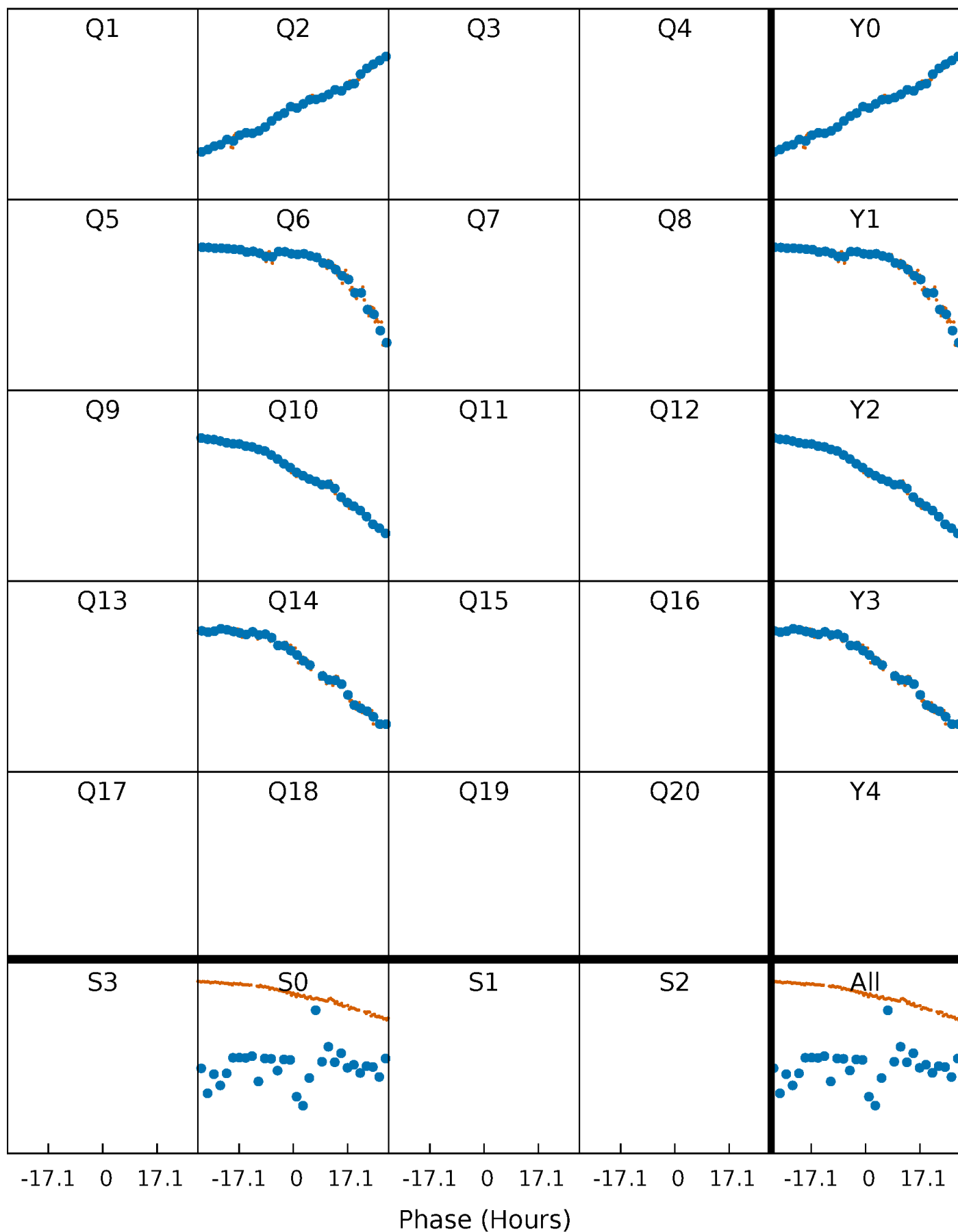


Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)



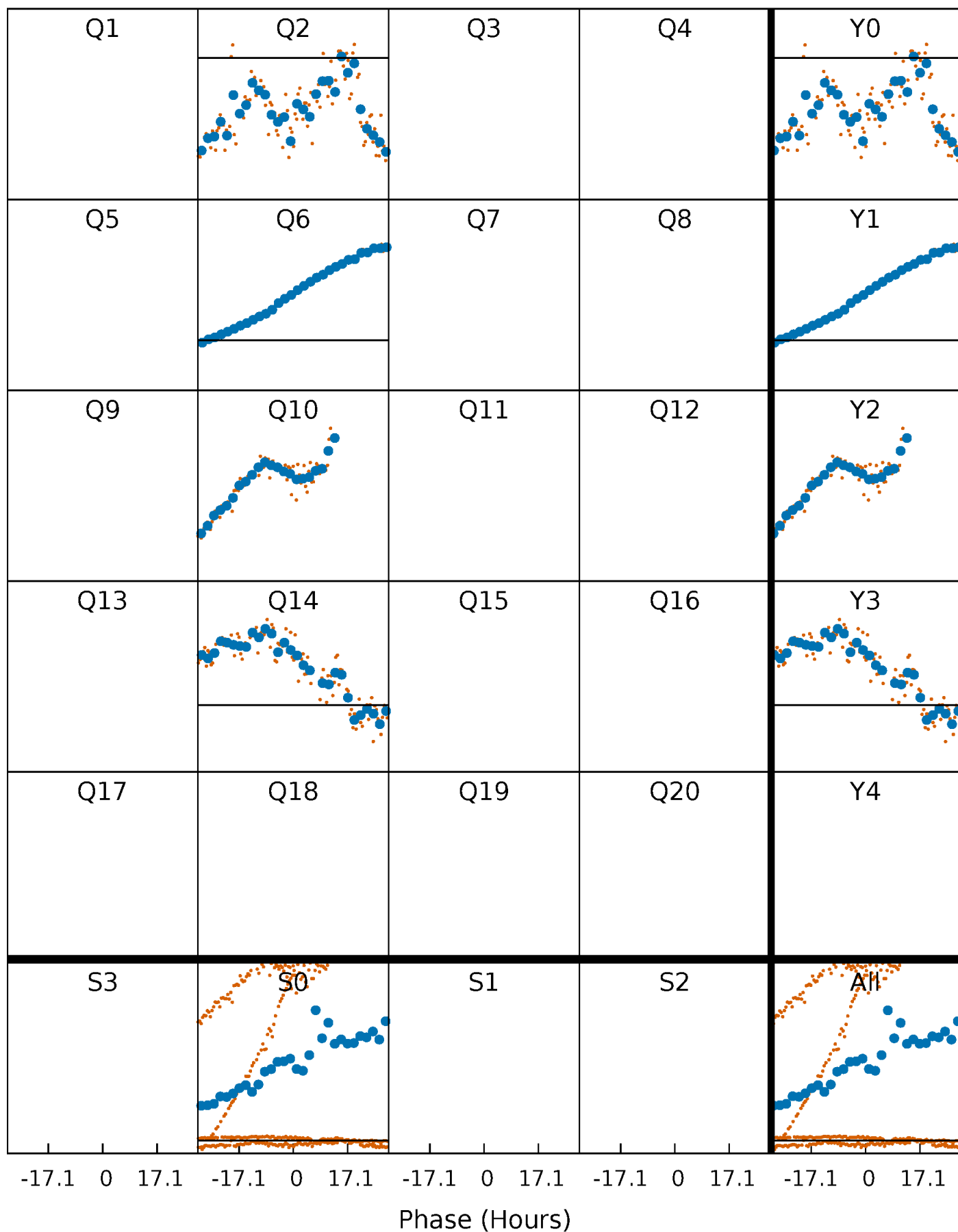
PDC Quarter-Phased Transit Curves

TCE 005262664-03 P=371.822680 Days $T_0=200.842063$ (BKJD)



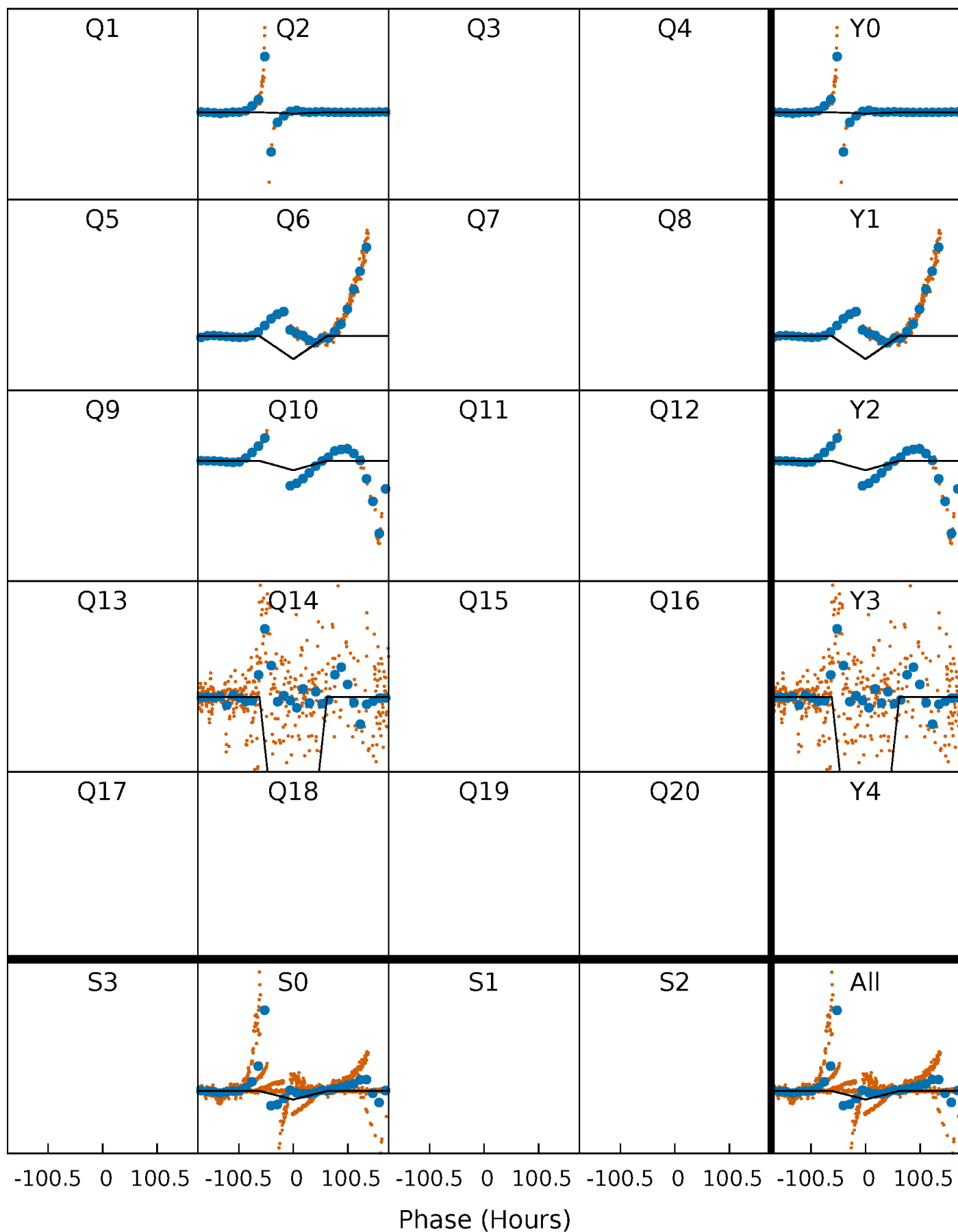
DV Quarter-Phased Transit Curves

TCE 005262664-03 P=371.822680 Days $T_0=200.842063$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

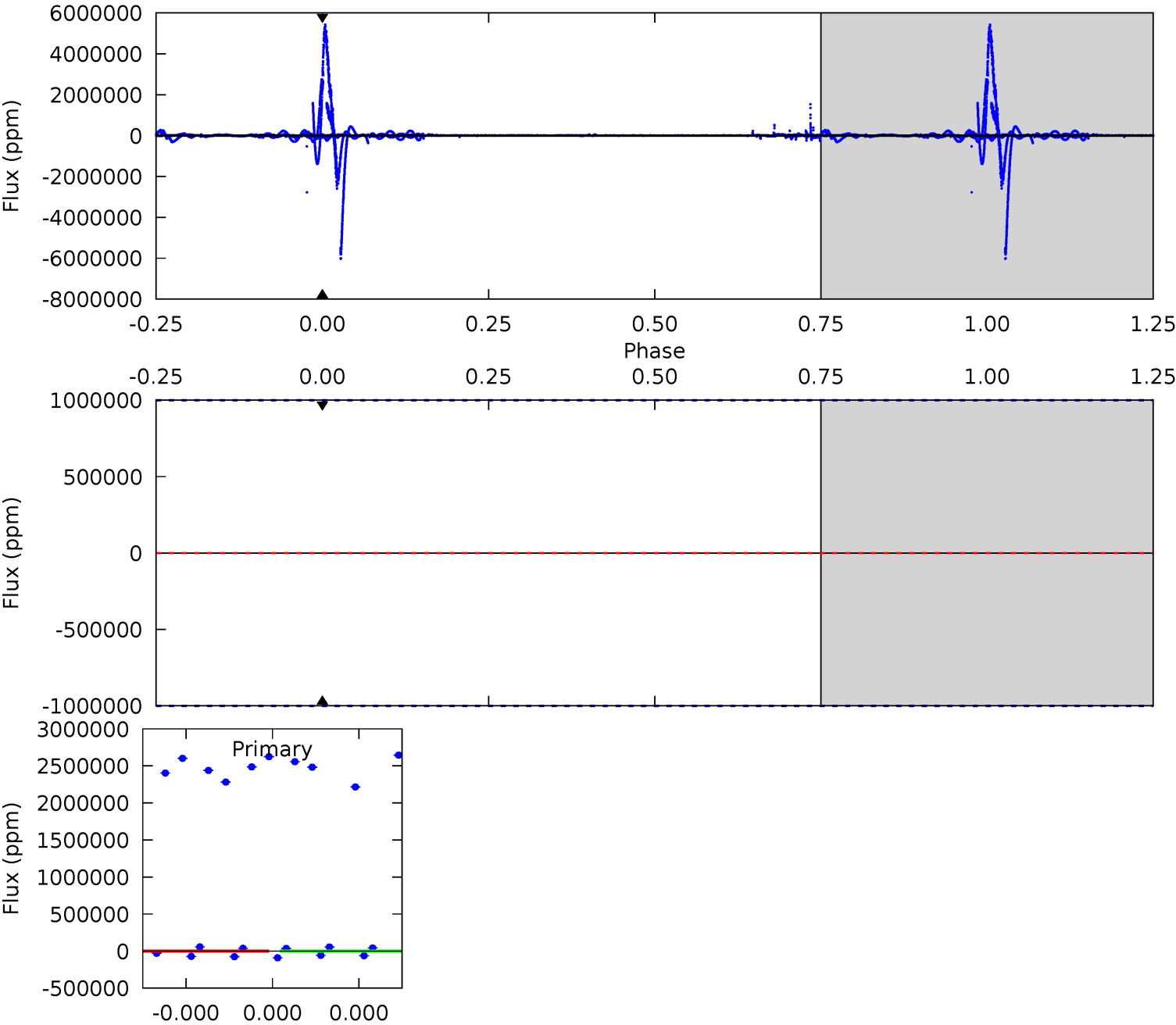
TCE 005262664-03 P=371.822680 Days $T_0=203.336165$ (BKJD)



DV Model-Shift Uniqueness Test

005262664-03, P = 371.822680 Days, E = 200.842063 Days

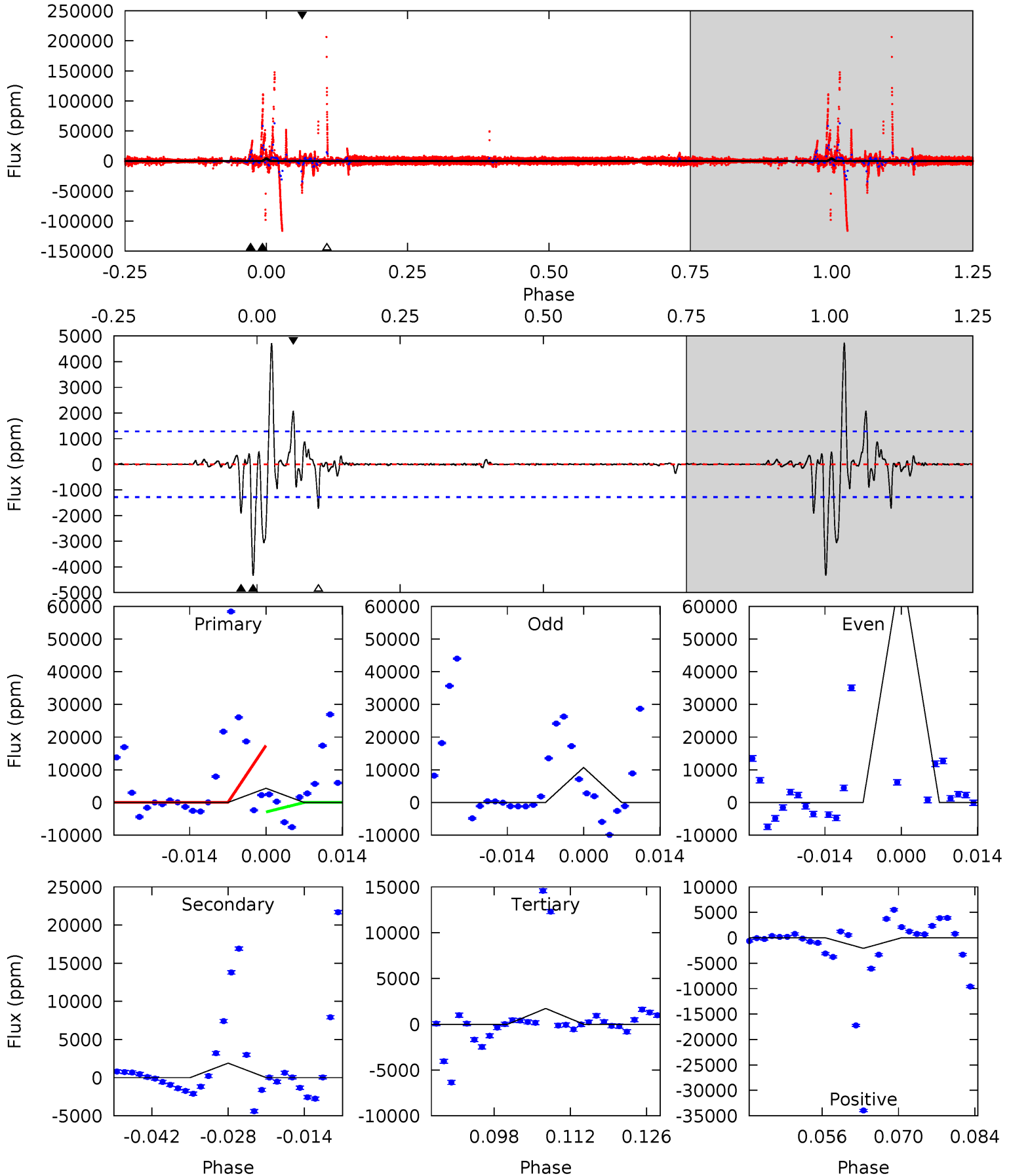
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|-----|-----|-----|-----|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|-----|-------|-----|
| 0 | 0 | 0 | 0 | 1.00 | 1.00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



Alt Model-Shift Uniqueness Test

005262664-03, P = 371.822680 Days, E = 203.336165 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|-------|-------|-----|
| 16.7 | 7.35 | 6.65 | 8.01 | 4.96 | 2.46 | 1.44 | 10.1 | 8.73 | 0.69 | -0.67 | 47.3 | -3.11 | 0.52 | 0 |



Stellar Parameters For KIC 005262664

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | R (R_{\odot}) | $M(M_{\odot})$ | p_{\star} ($\text{g}\cdot\text{cm}^{-3}$) |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 4771^{+142}_{-128} | $4.617^{+0.054}_{-0.031}$ | $-0.480^{+0.300}_{-0.300}$ | $0.646^{+0.062}_{-0.056}$ | $0.630^{+0.082}_{-0.038}$ | $3.293^{+0.797}_{-0.481}$ |
| | +3%/-3% | +1%/-1% | +62%/-62% | +10%/-9% | +13%/-6% | +24%/-15% |
| 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 005262664-03 / KOI

| Detrend | Depth (ppm) | R_p (R_{\oplus}) | T_{max} (K) | T_{obs} (K) | A_{obs} |
|---------|-----------------|-------------------------|-----------------|-------------------------|---|
| DV | 0 ± 1000000 | $16.21^{+7.29}_{-6.74}$ | 253^{+8}_{-8} | -2910^{+8657}_{-2898} | $-4280.132^{+202484.733}_{-201837.279}$ |
| Alt. | -1898 ± 258 | $16.41^{+7.40}_{-6.81}$ | 252^{+9}_{-8} | 2766^{+448}_{-251} | 2918^{+5615}_{-1499} |

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 $A_{obs} \gg 1.0$

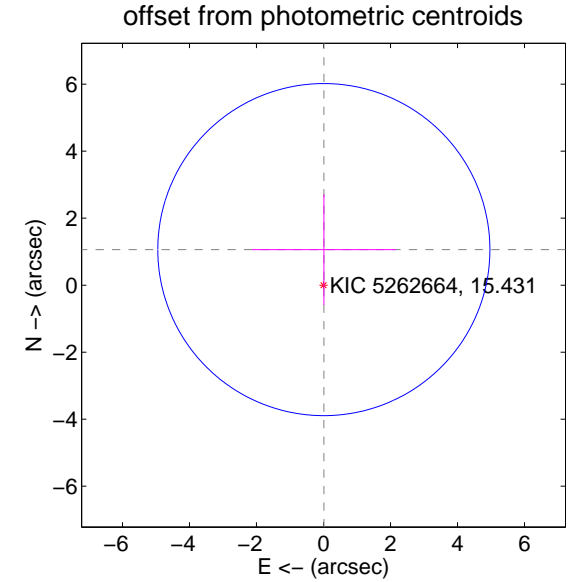
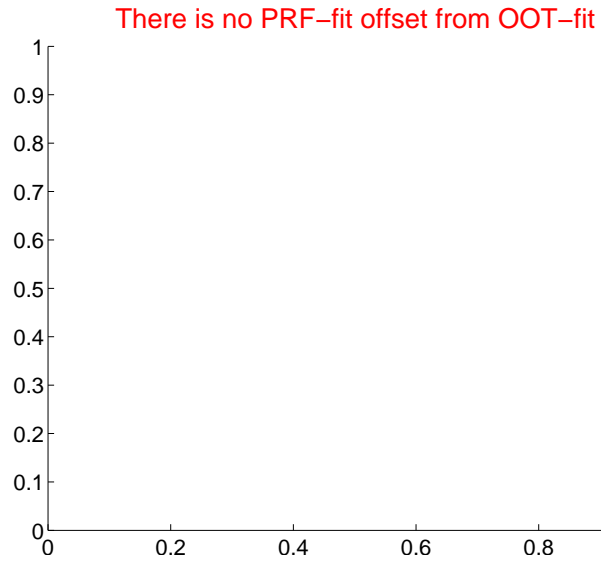
DV Centroid Data

Supplemental centroid analysis for 005262664-03. Kepler magnitude: 15.43. 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 | 1.06 ± 1.65 | 0.64 | -0.01 ± 2.14 | 1.06 ± 1.65 |

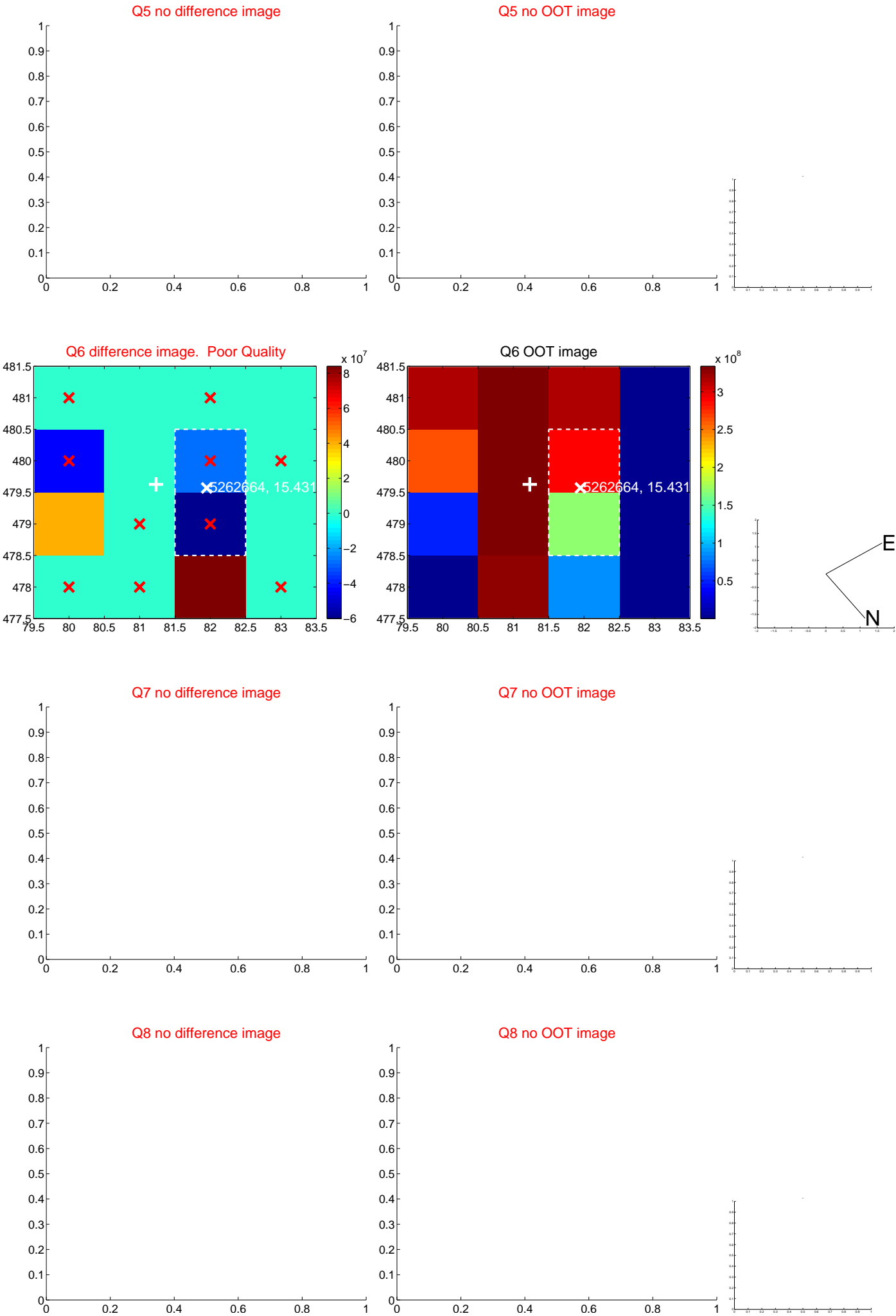


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

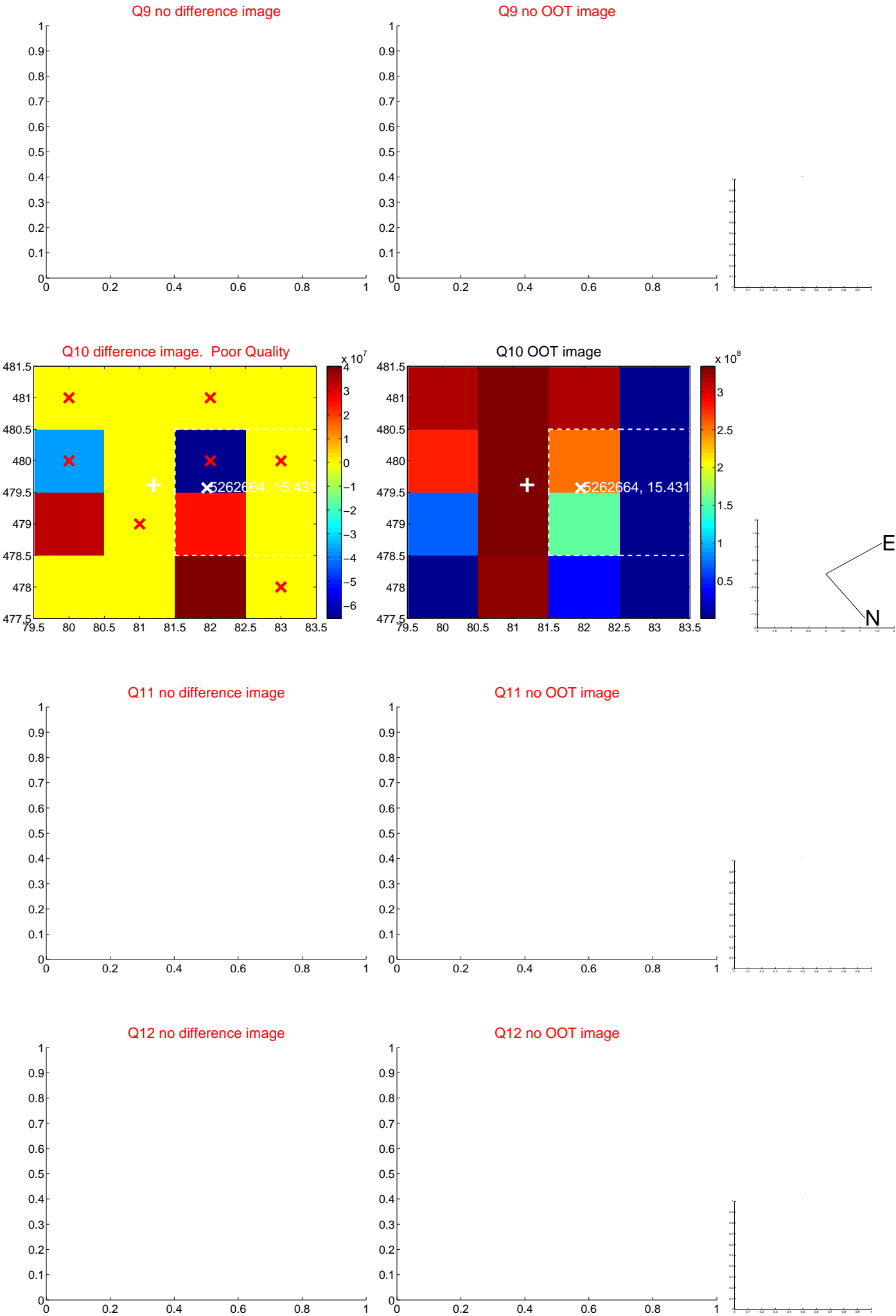
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



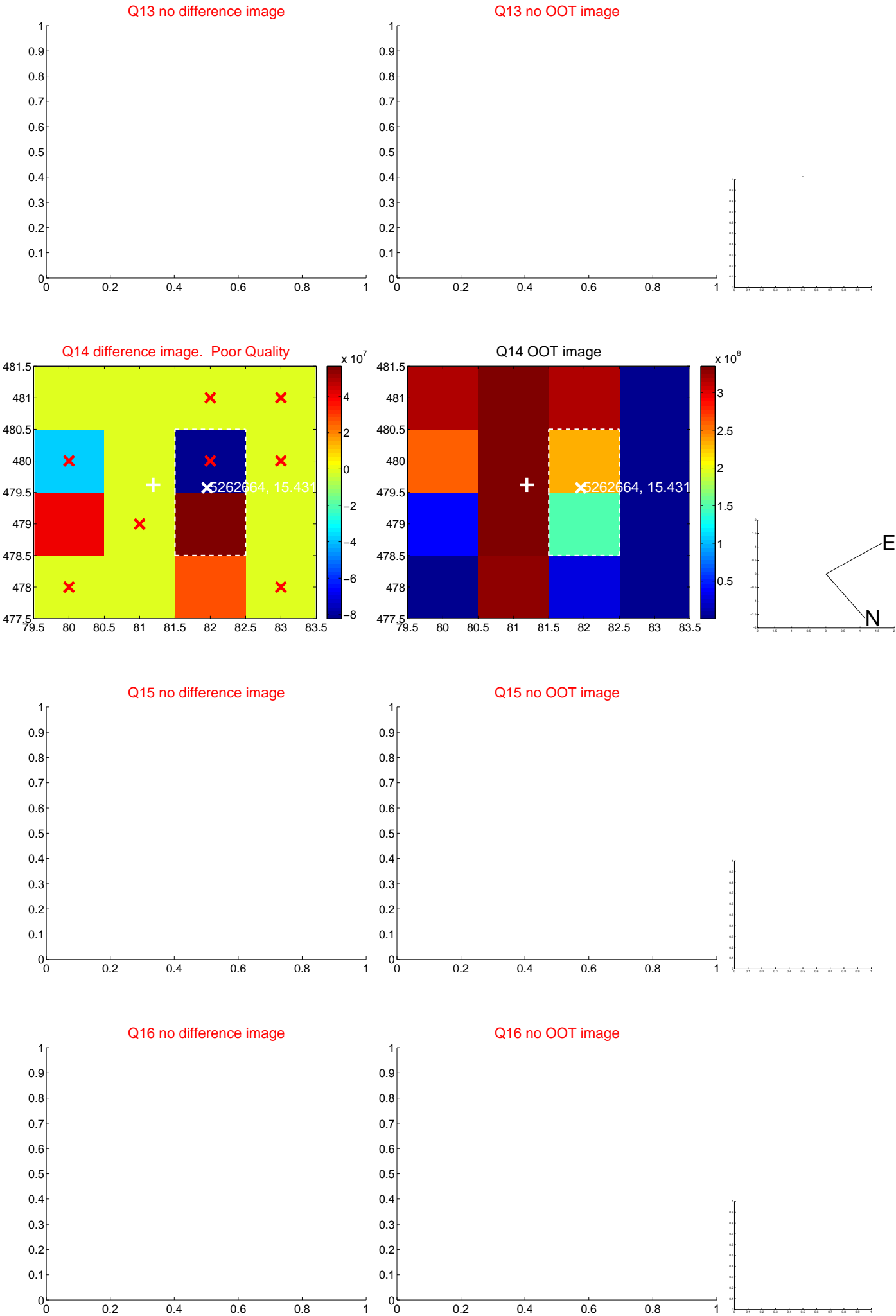
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



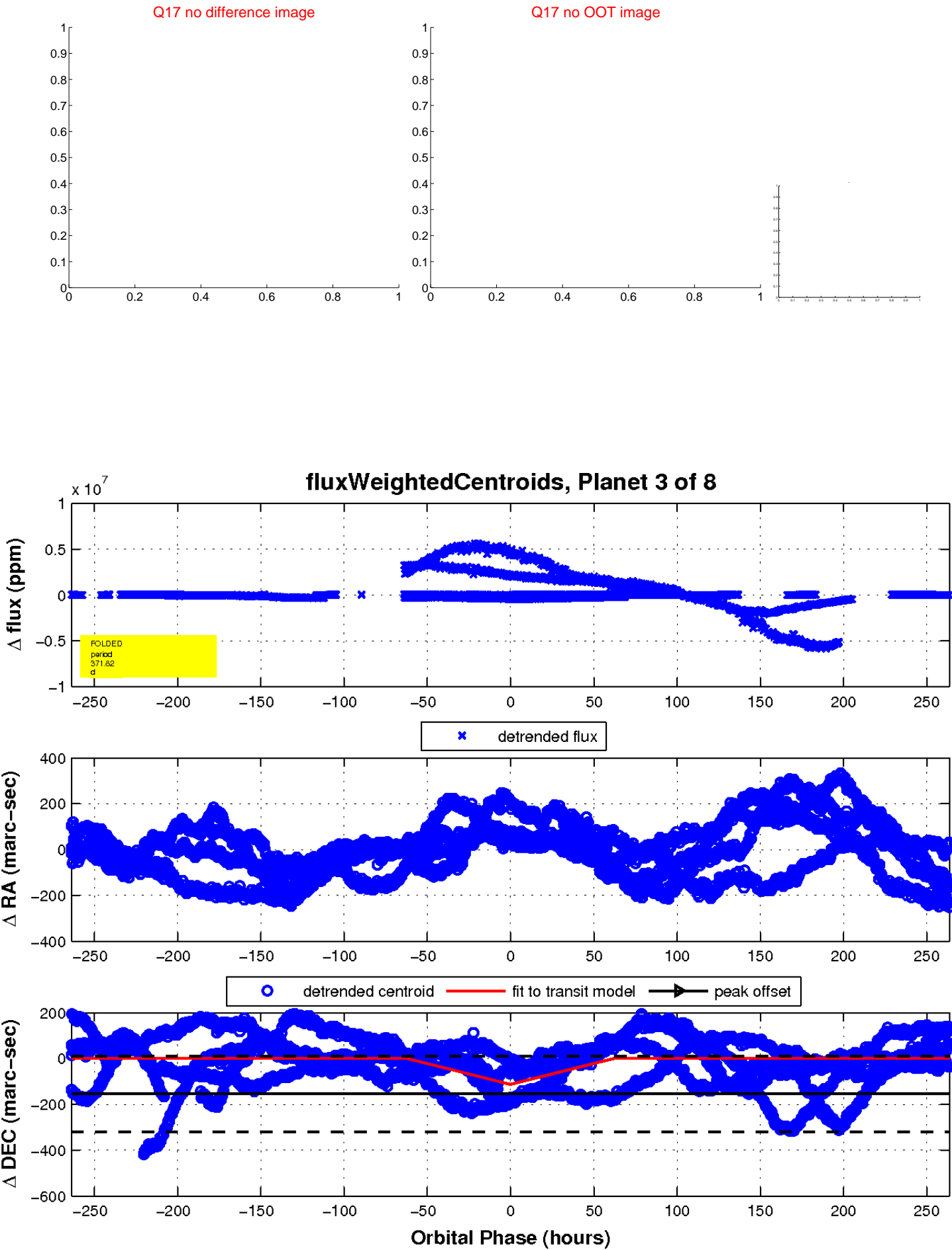
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.

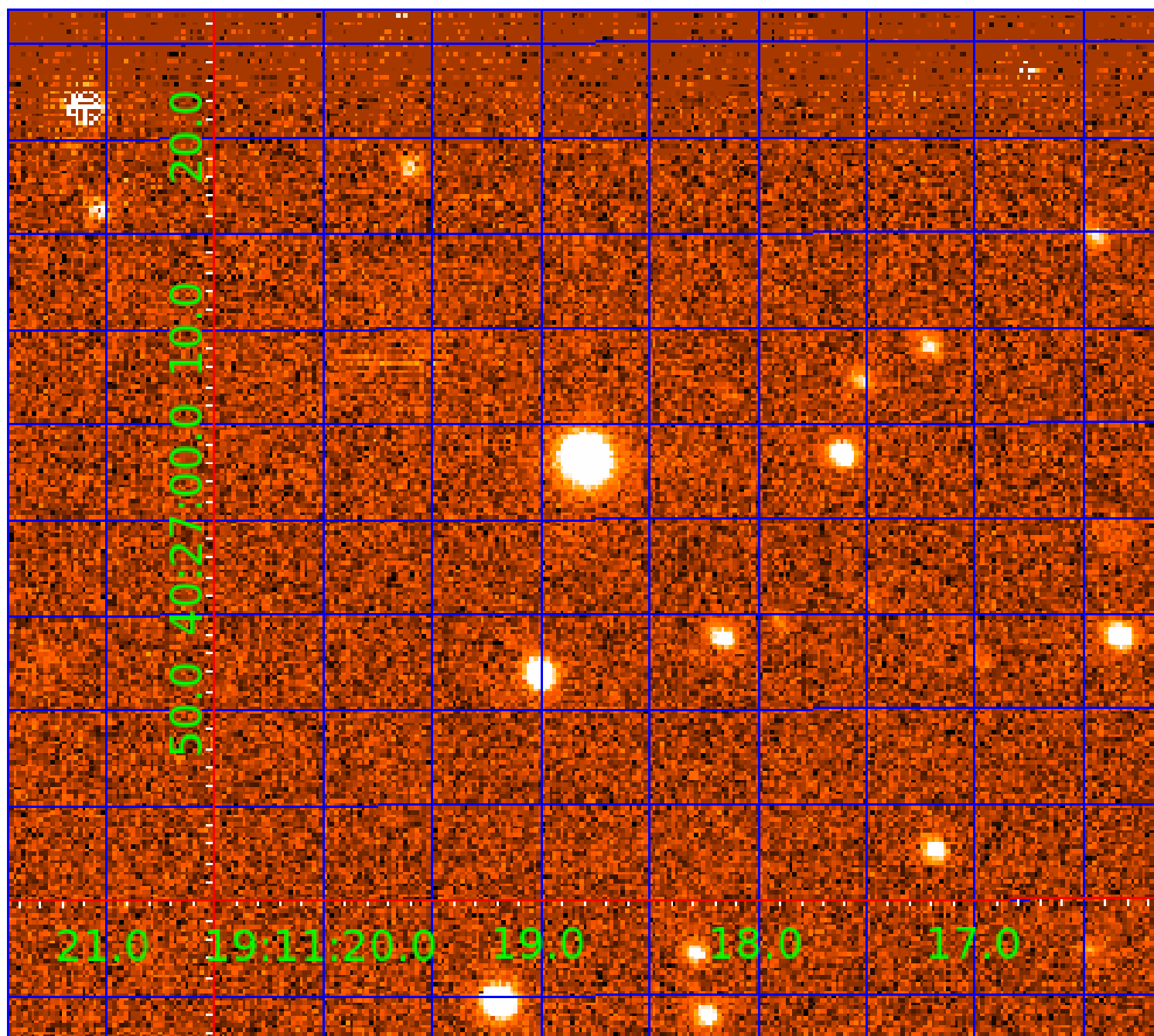


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005262664

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|-------|------|-----------------------------|-----------------|------------------------|------------------------|
| 005262664-01 | OBS | No | 365.920200 | 208.663428 | 78.8 | 2.620 | 188.6 | 1.0 | 0.65 | 4771 | 0.61 | 0.26 |
| 005262664-02 | OBS | No | 364.085172 | 217.788295 | 103607.9 | 15.000 | 273.4 | -1.0 | 0.65 | 4771 | 20.22 | 0.27 |
| 005262664-03 | OBS | No | 371.822680 | 200.842063 | 68946.7 | 15.000 | 217.5 | -1.0 | 0.65 | 4771 | 16.46 | 0.26 |
| 005262664-04 | OBS | No | 372.640023 | 205.317013 | 772566.2 | 15.000 | 204.8 | -1.0 | 0.65 | 4771 | 19.45 | 0.26 |
| 005262664-05 | OBS | No | 378.445434 | 196.712296 | 168223.1 | 91.262 | 142.0 | 32.9 | 0.65 | 4771 | 45.21 | 0.25 |
| 005262664-06 | OBS | No | 386.021749 | 445.972289 | 79375.7 | 5.327 | 137.9 | 90.3 | 0.65 | 4771 | 17.66 | 0.24 |
| 005262664-07 | OBS | No | 240.211680 | 256.692238 | 1349.8 | 49.443 | 115.3 | 10.0 | 0.65 | 4771 | 3.06 | 0.46 |
| 005262664-08 | OBS | No | 302.205541 | 203.283873 | 19853.1 | 12.000 | 54.9 | -1.0 | 0.65 | 4771 | 8.81 | 0.34 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|---|
| 005262664-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-02 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-07 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-08 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—INCONSISTENT_TRANS—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.

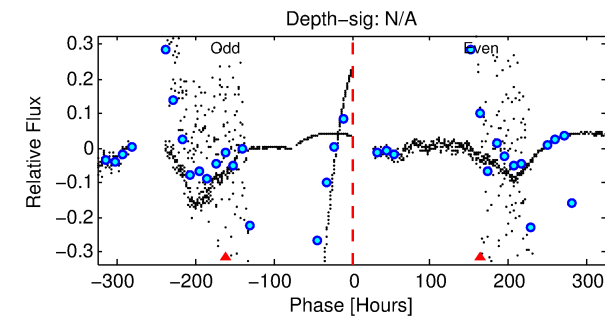
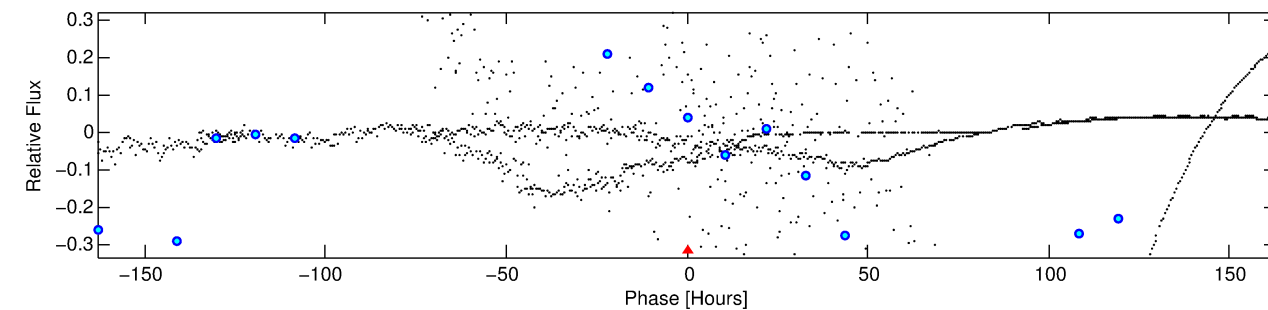
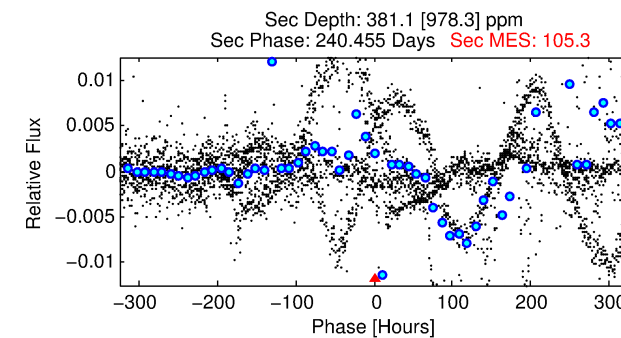
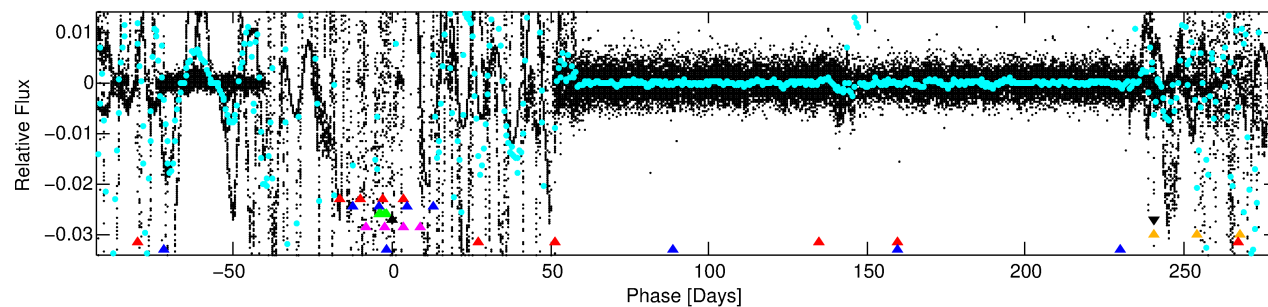
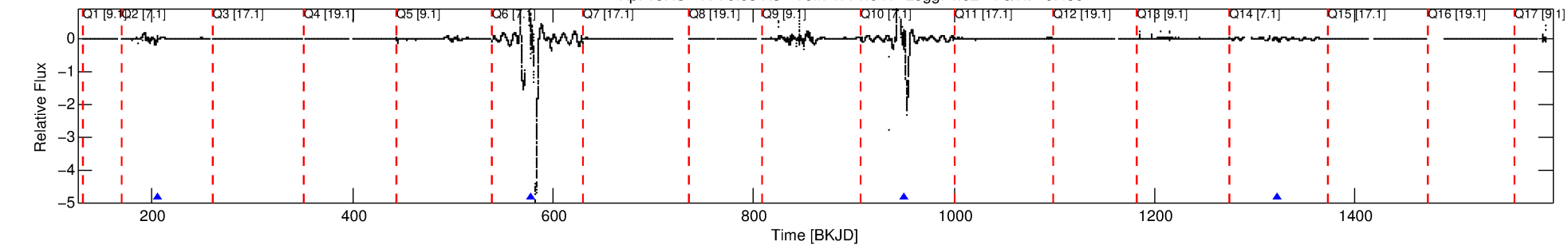
Ephemeris Match Information For 005262664-04

No Significant Match Found

DV One-Page Summary

KIC: 5262664 Candidate: 4 of 8 Period: 372.640 d

Kp: 15.43 R*: 0.65 Rs Teff: 4771.0 K Logg: 4.62 Fe/H: -0.480



TPS TCE Results:

Period = 372.64002 d
Epoch = 205.3170 BKJD

DV fit results are unavailable

DV Diagnostic Results:

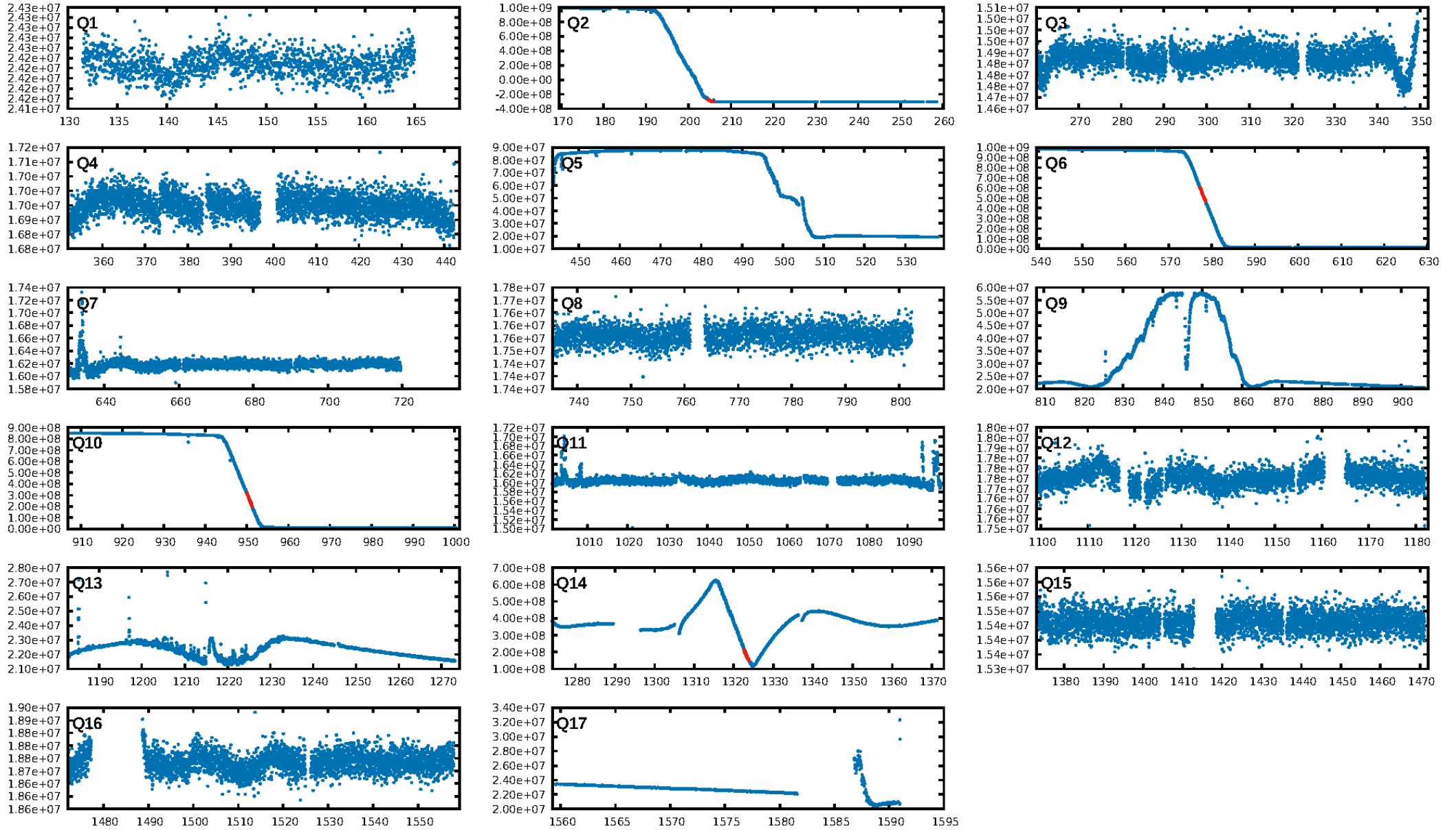
ShortPeriod-sig: 64.5% [0.92σ]
LongPeriod-sig: 86.8% [1.51σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.3656

Centroid-sig: N/A
Centroid-so: 7.658 arcsec [1.42σ]
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: 0.00 [0/4]

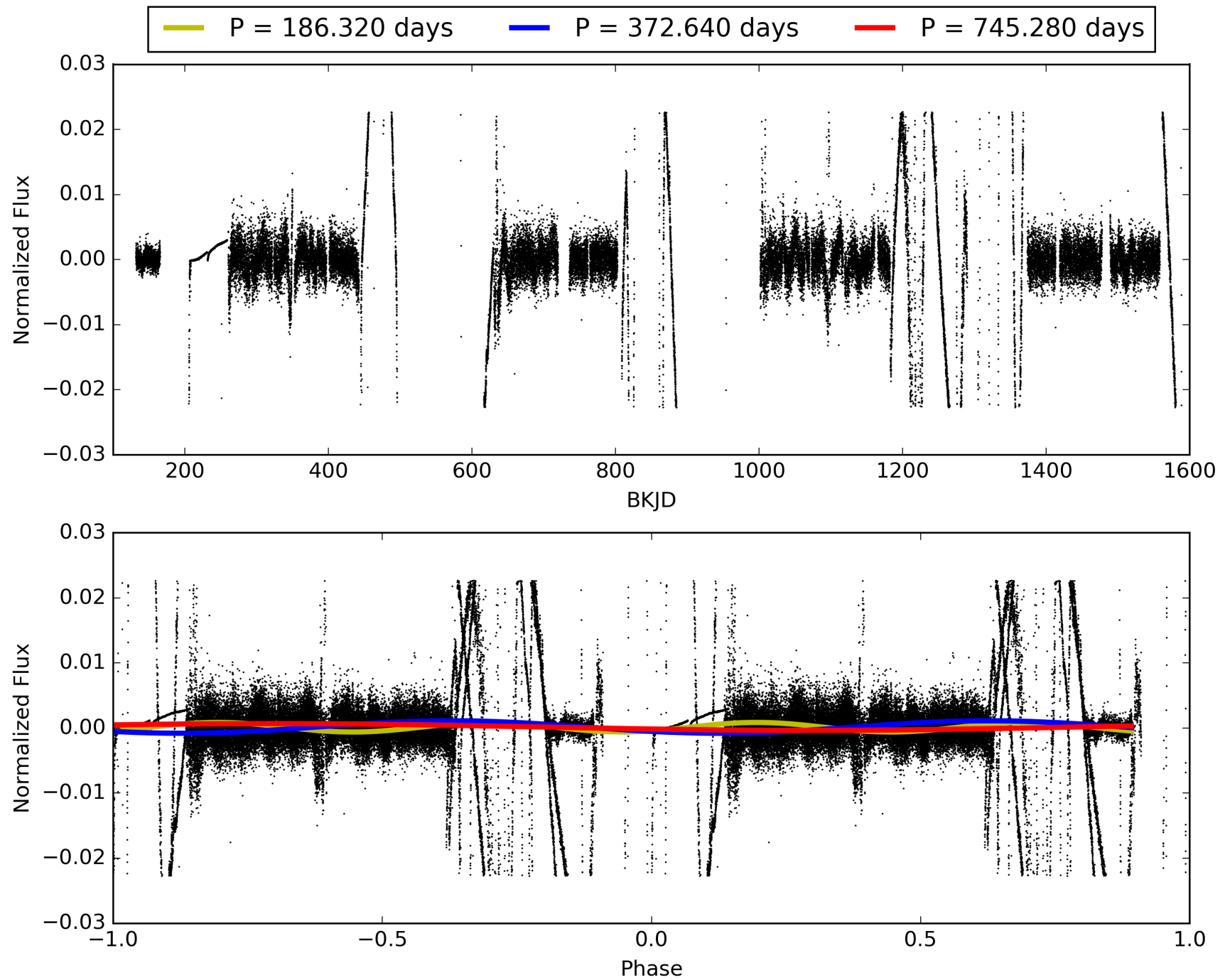
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 01:30:29 Z

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

TCE 005262664-04, PDC Light Curves

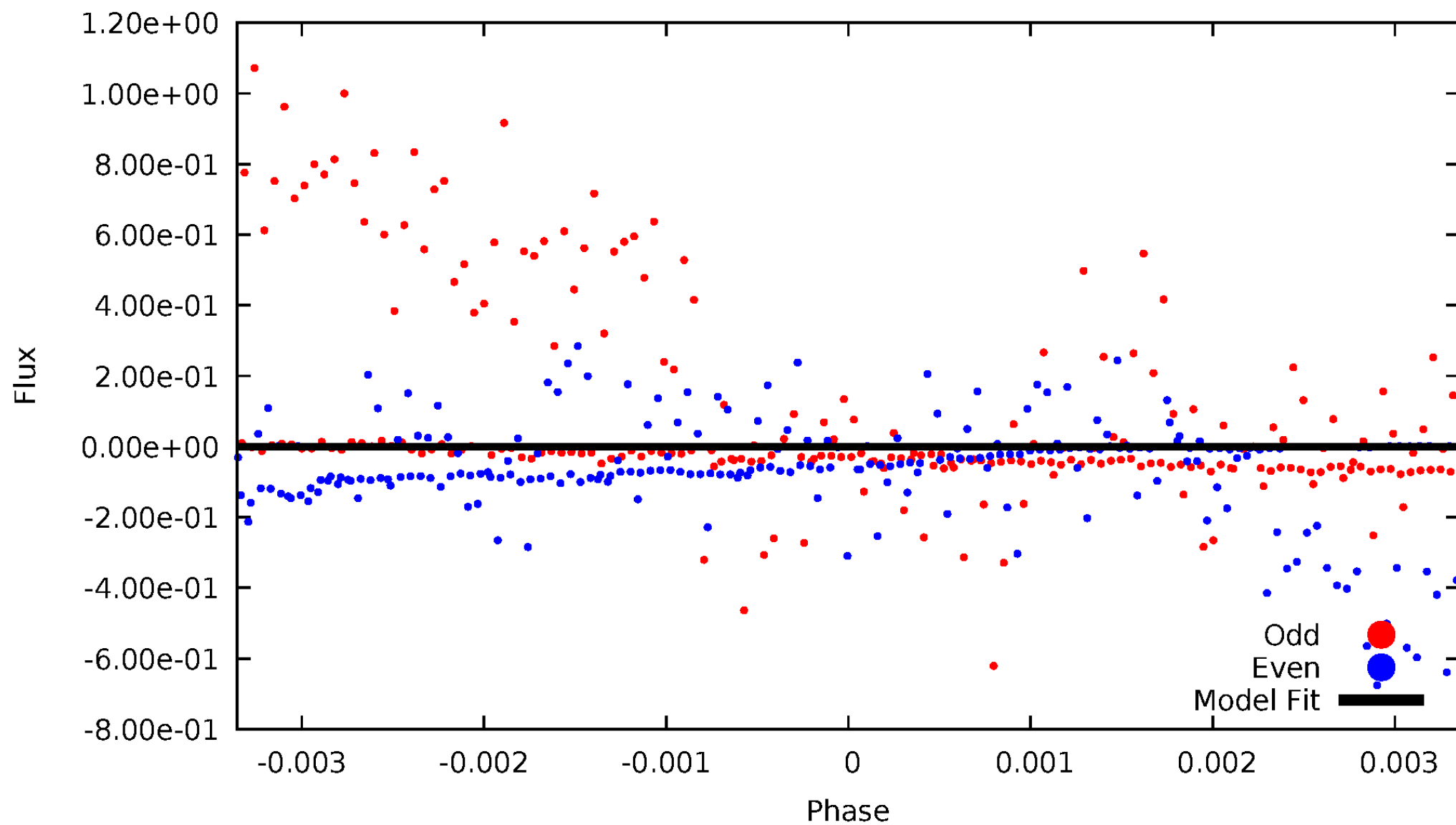


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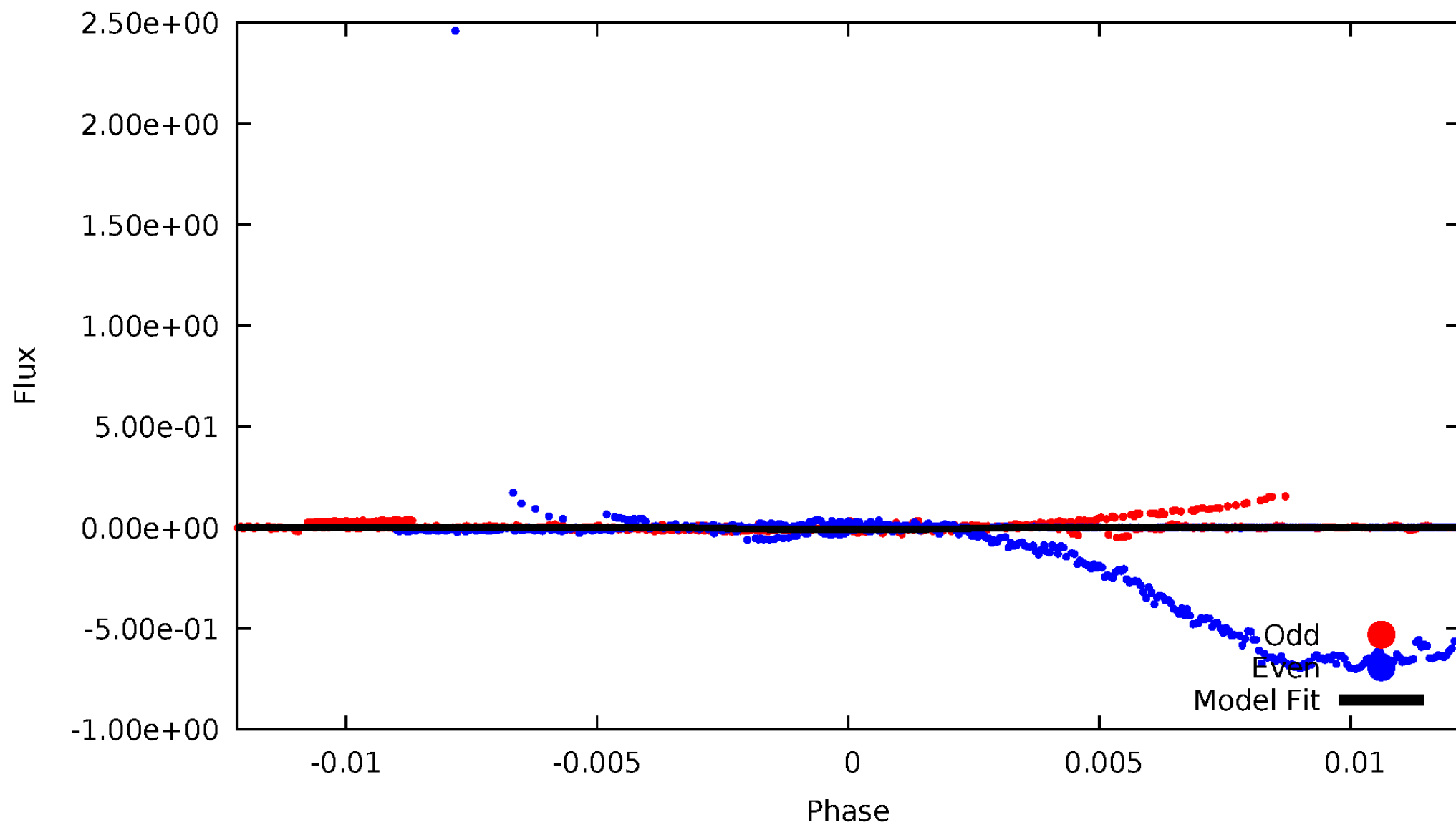
DV Odd/Even

TCE 005262664-04



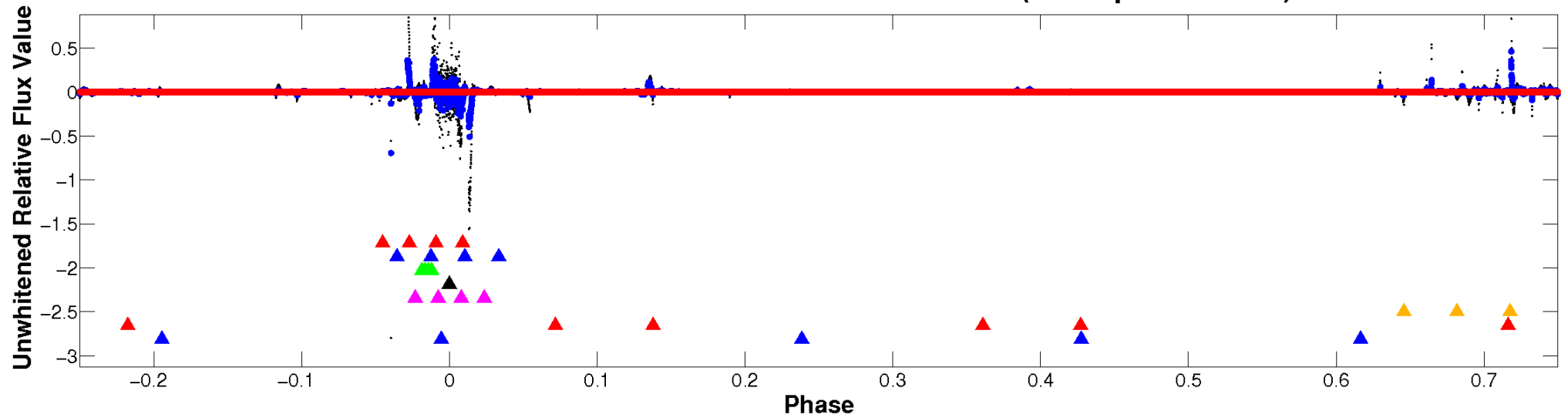
ALT Odd/Even

TCE 005262664-04

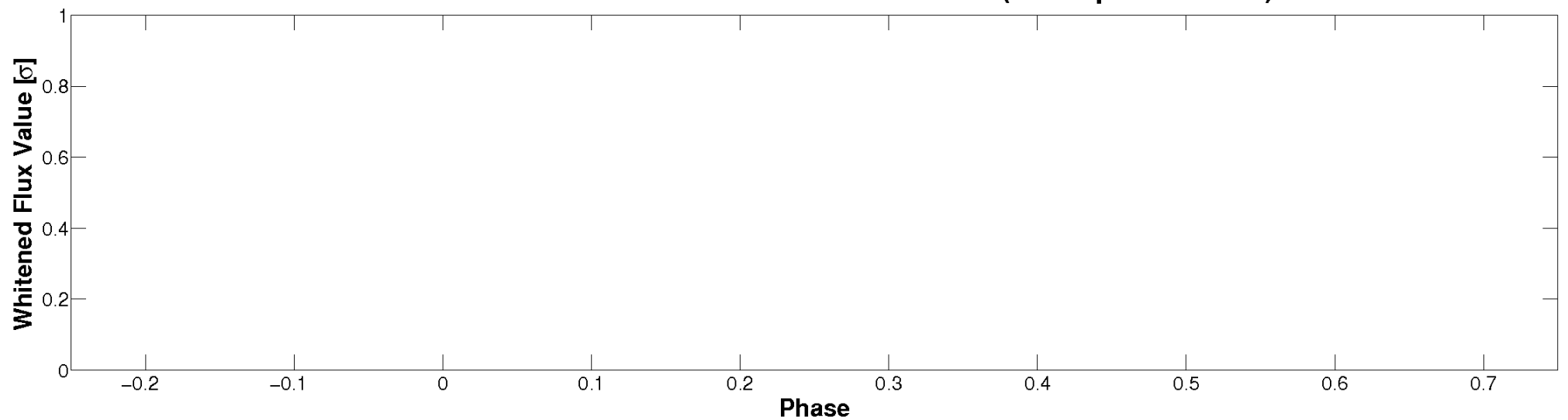


Non-Whitened Vs. Whitened Light Curve

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

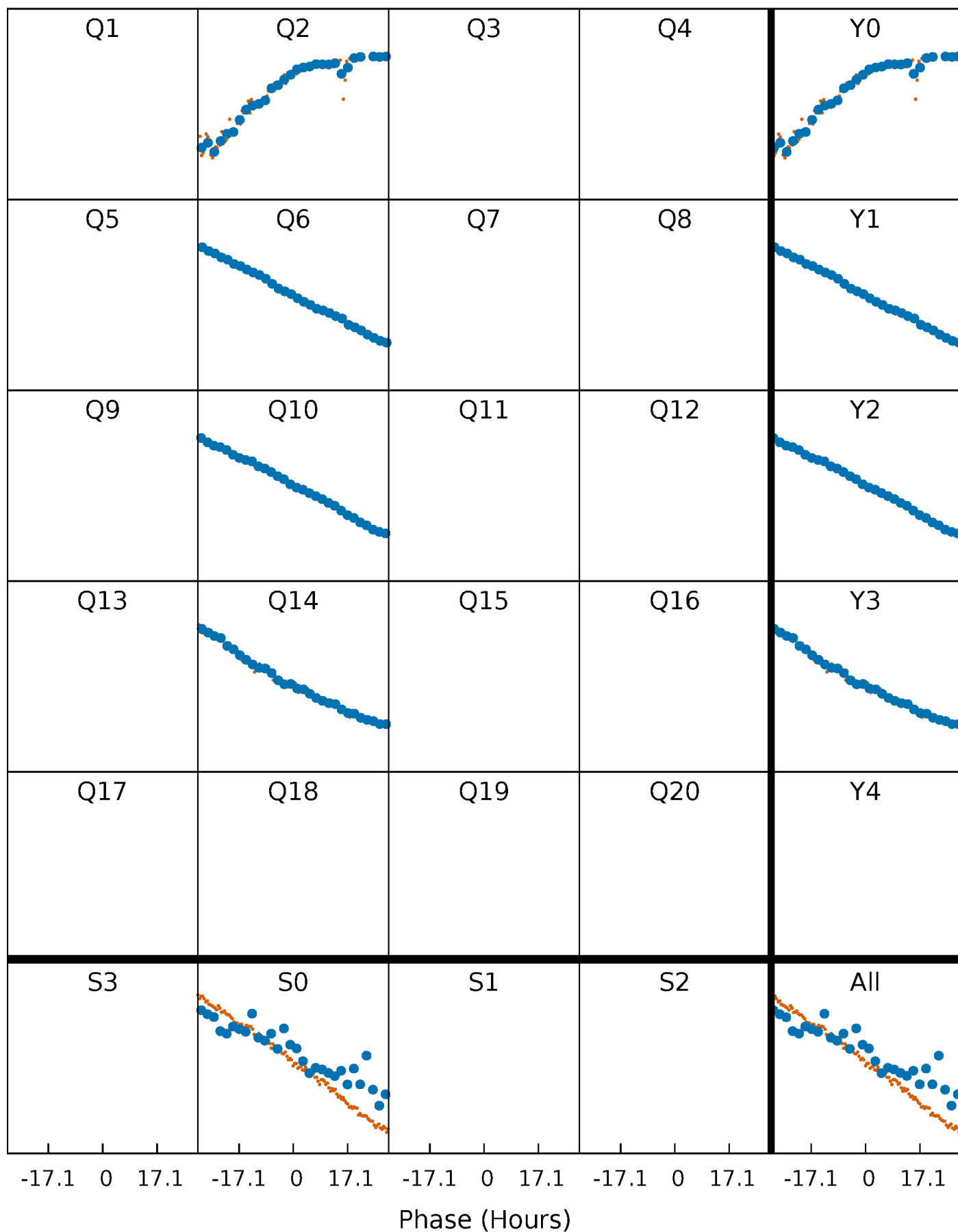


Planet 4 : Phased Whitened Flux Time Series (TPS Epoch/Period)



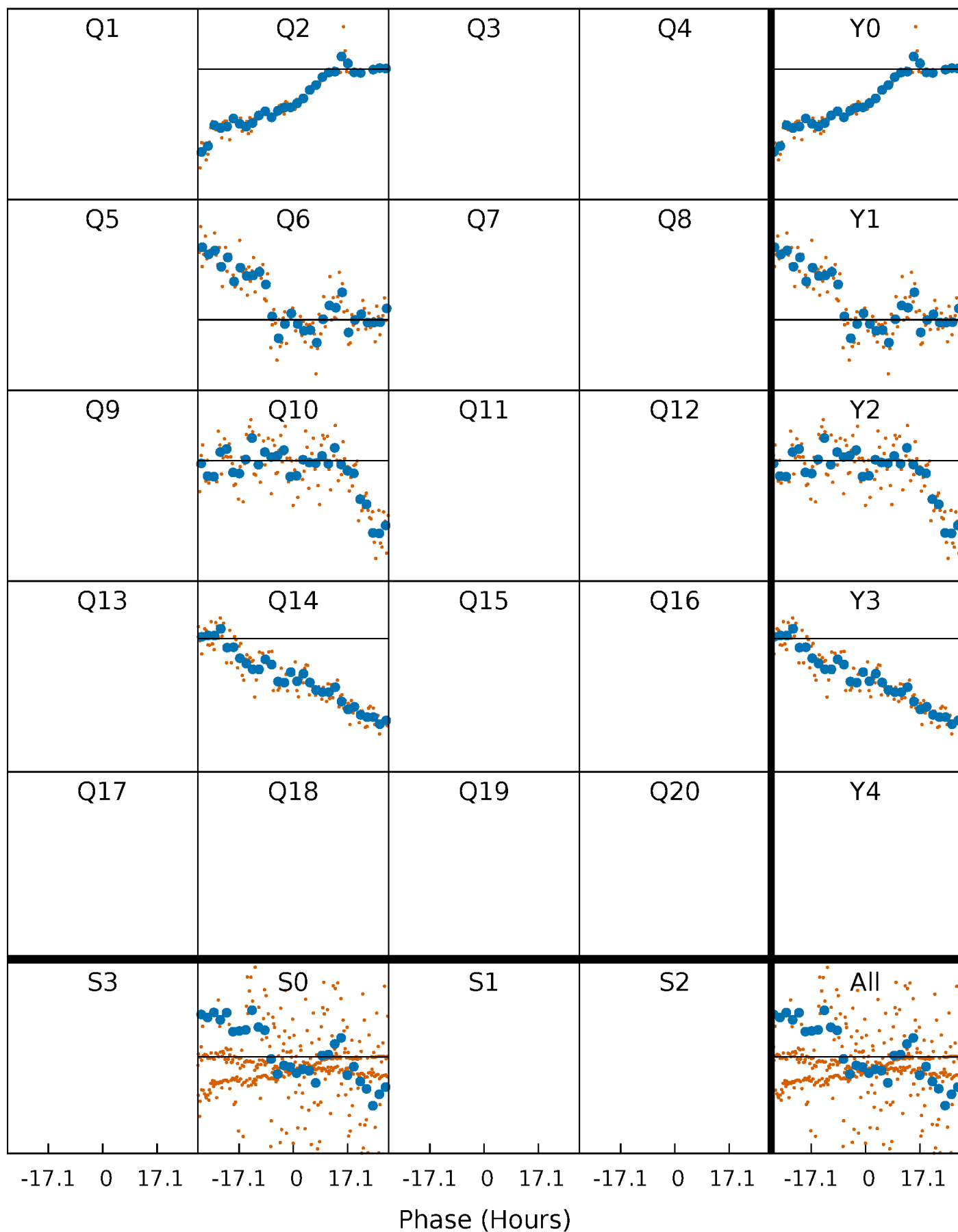
PDC Quarter-Phased Transit Curves

TCE 005262664-04 P=372.640022 Days $T_0=205.317013$ (BKJD)



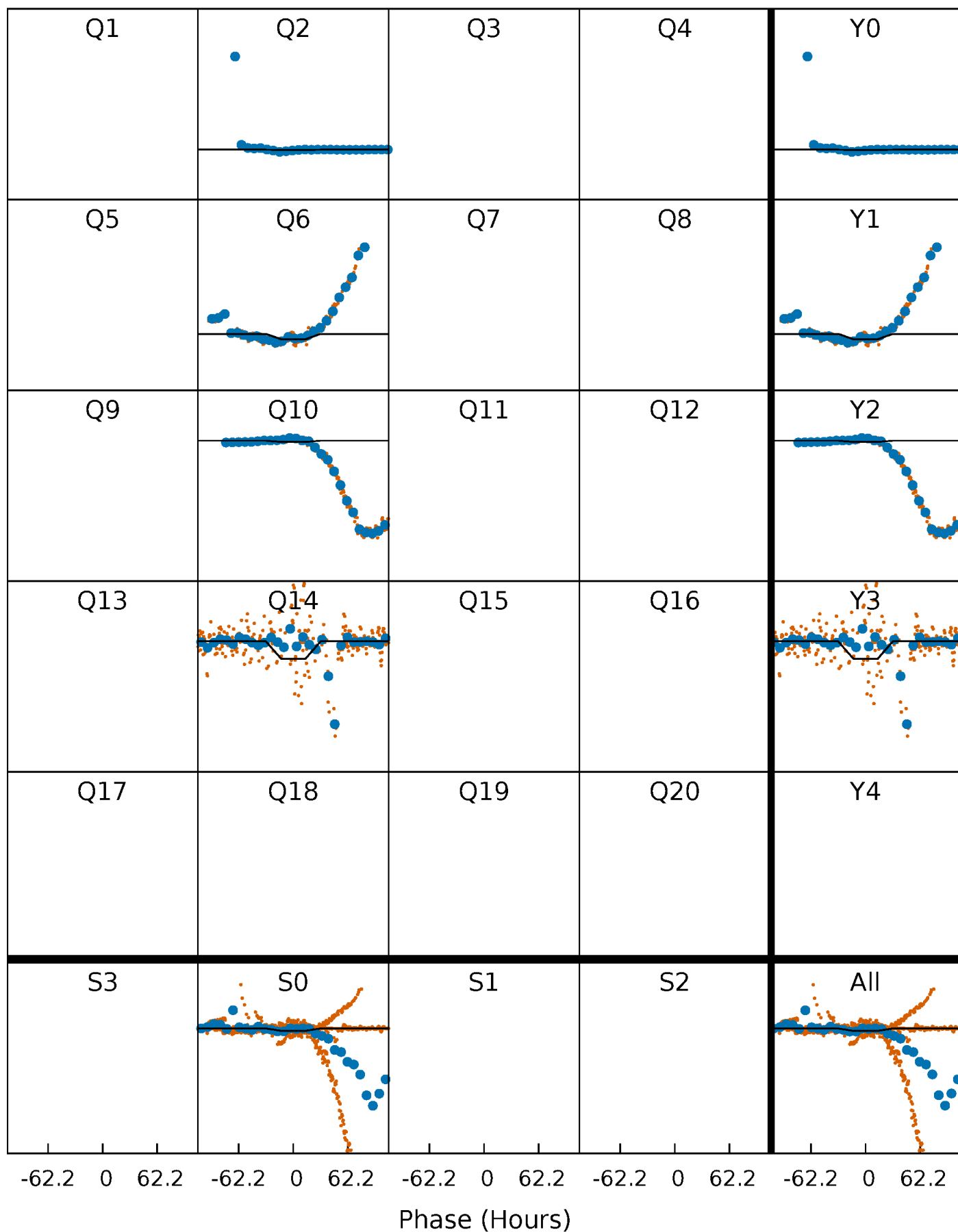
DV Quarter-Phased Transit Curves

TCE 005262664-04 $P=372.640022$ Days $T_0=205.317013$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

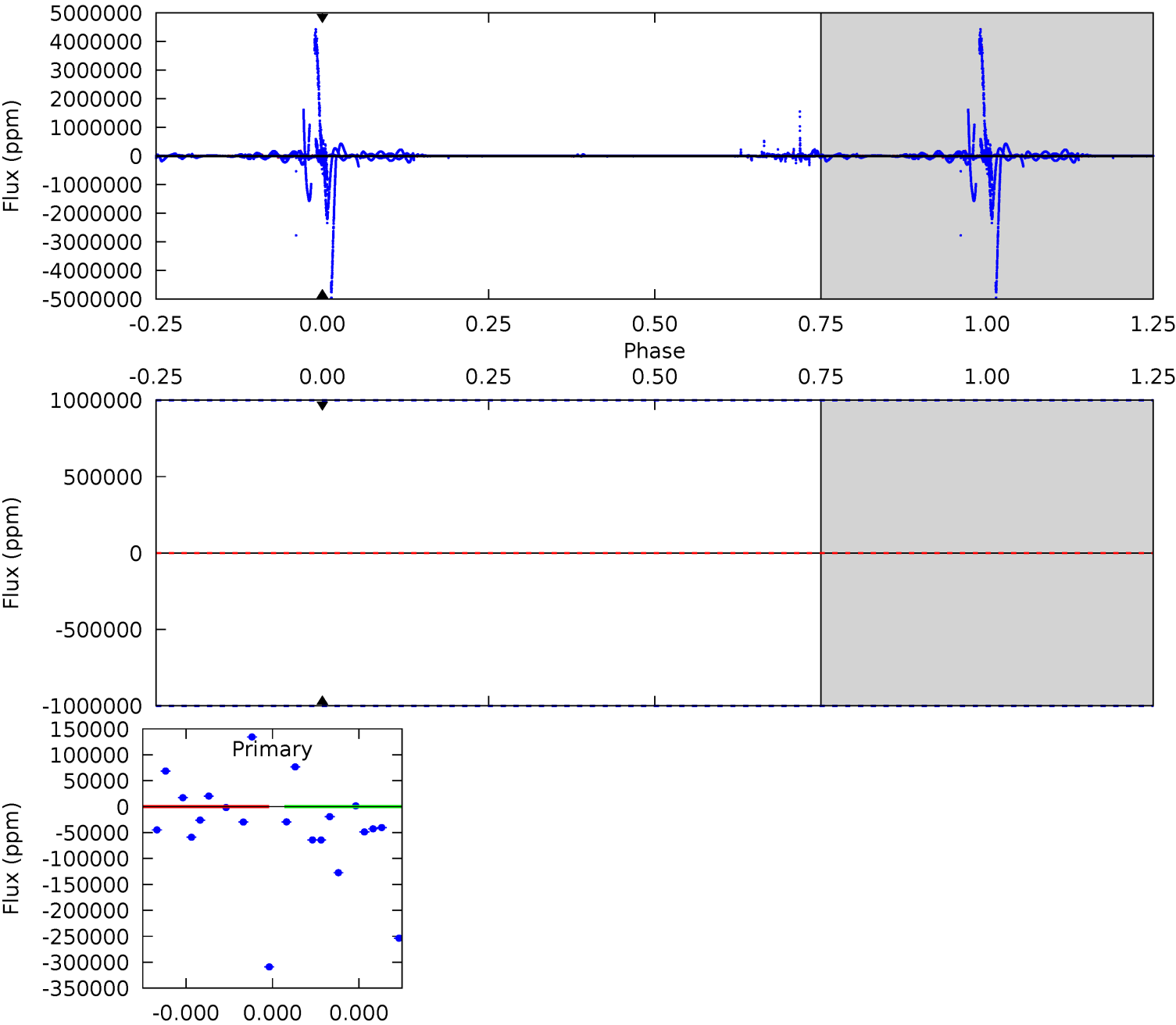
TCE 005262664-04 P=372.640022 Days $T_0=204.987238$ (BKJD)



DV Model-Shift Uniqueness Test

005262664-04, P = 372.640022 Days, E = 205.317013 Days

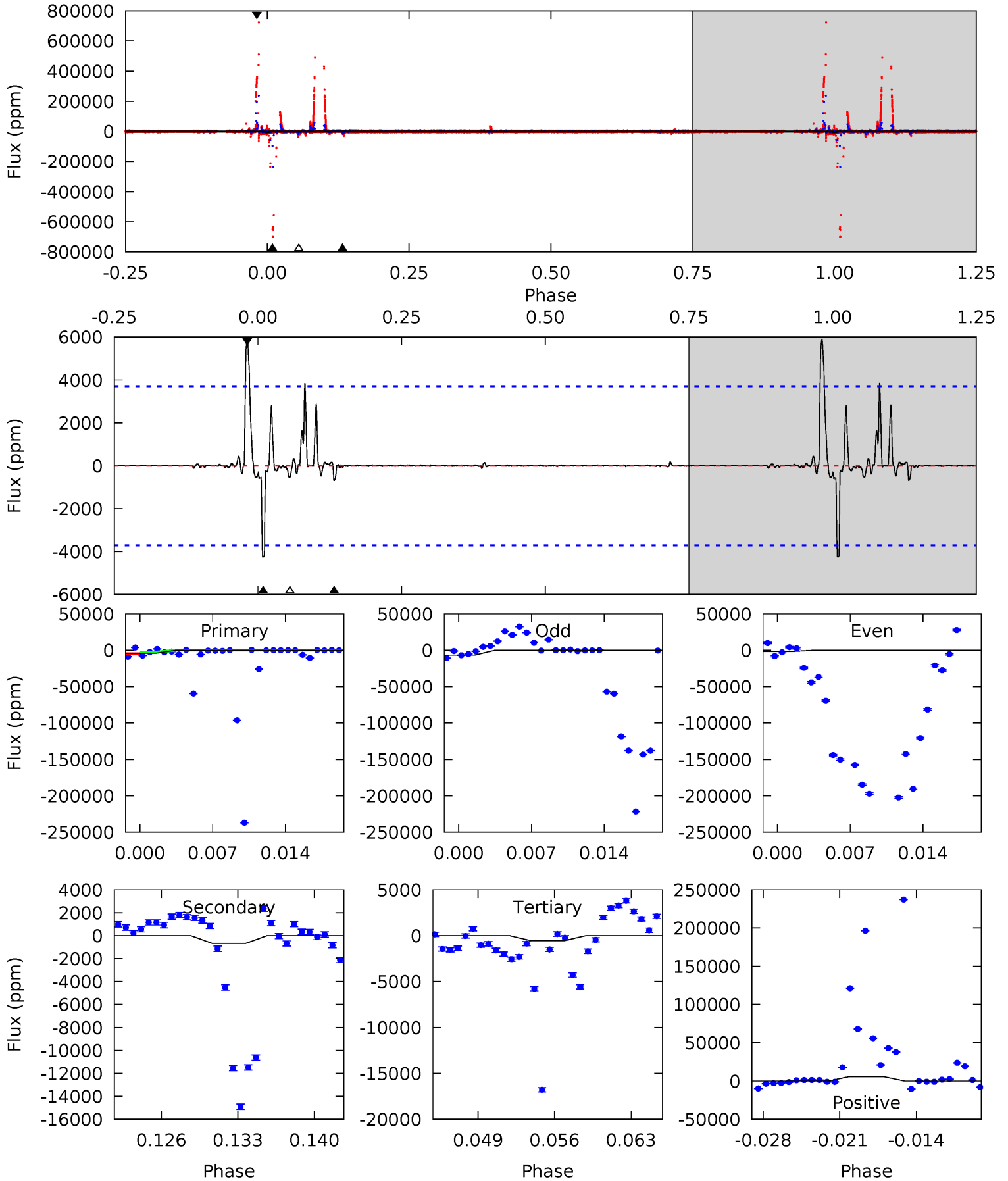
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|-----|-----|-----|-----|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|-----|-------|-----|
| 0 | 0 | 0 | 0 | 1.00 | 1.00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



Alt Model-Shift Uniqueness Test

005262664-04, P = 372.640022 Days, E = 204.987238 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 5.83 | 0.93 | 0.76 | 8.06 | 5.09 | 2.70 | 0.55 | 5.07 | -2.23 | 0.17 | -7.13 | 1.92 | 1.34 | 0.58 | 1.29 |



Stellar Parameters For KIC 005262664

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | $R (R_{\odot})$ | $M(M_{\odot})$ | $p_{\star} (g \cdot \text{cm}^{-3})$ |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|--------------------------------------|
| | 4771^{+142}_{-128} | $4.617^{+0.054}_{-0.031}$ | $-0.480^{+0.300}_{-0.300}$ | $0.646^{+0.062}_{-0.056}$ | $0.630^{+0.082}_{-0.038}$ | $3.293^{+0.797}_{-0.481}$ |
| | +3%/-3% | +1%/-1% | +62%/-62% | +10%/-9% | +13%/-6% | +24%/-15% |
| 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 005262664-04 / KOI

| Detrend | Depth (ppm) | $R_p (R_{\oplus})$ | $T_{max} (K)$ | $T_{obs} (K)$ | A_{obs} |
|---------|-----------------|-------------------------|-----------------|-------------------------|---|
| DV | 0 ± 1000000 | $19.63^{+6.28}_{-6.84}$ | 253^{+9}_{-9} | -2840^{+7987}_{-2401} | $-3839.300^{+130927.314}_{-126640.632}$ |
| Alt. | -678 ± 729 | $8.42^{+5.38}_{-5.02}$ | 252^{+8}_{-8} | 2821^{+975}_{-4828} | 3413^{+21401}_{-3592} |

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 005262664-04. Kepler magnitude: 15.43. Transit SNR -1.00

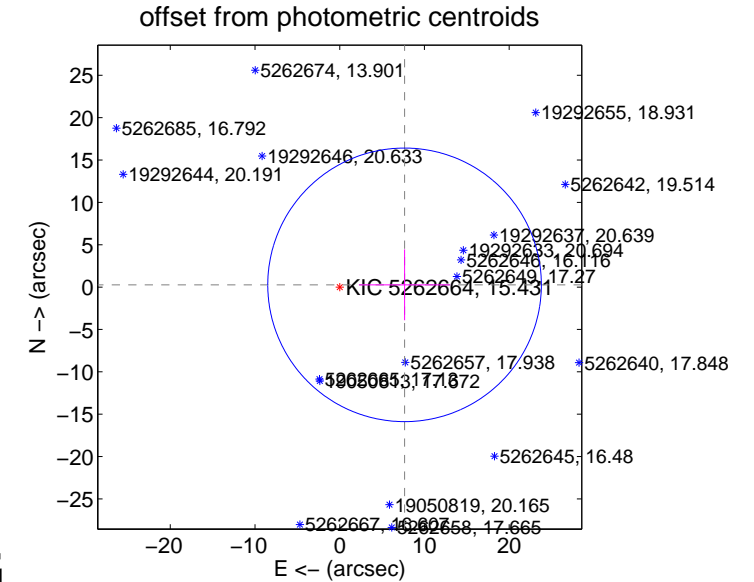
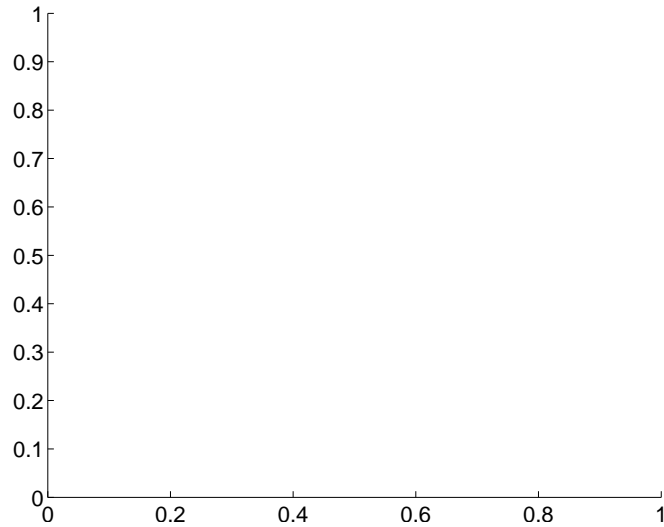
There are 0 quarters with good PRF difference image offsets

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 | 7.66 ± 5.38 | 1.42 | -7.65 ± 5.38 | 0.27 ± 4.18 |

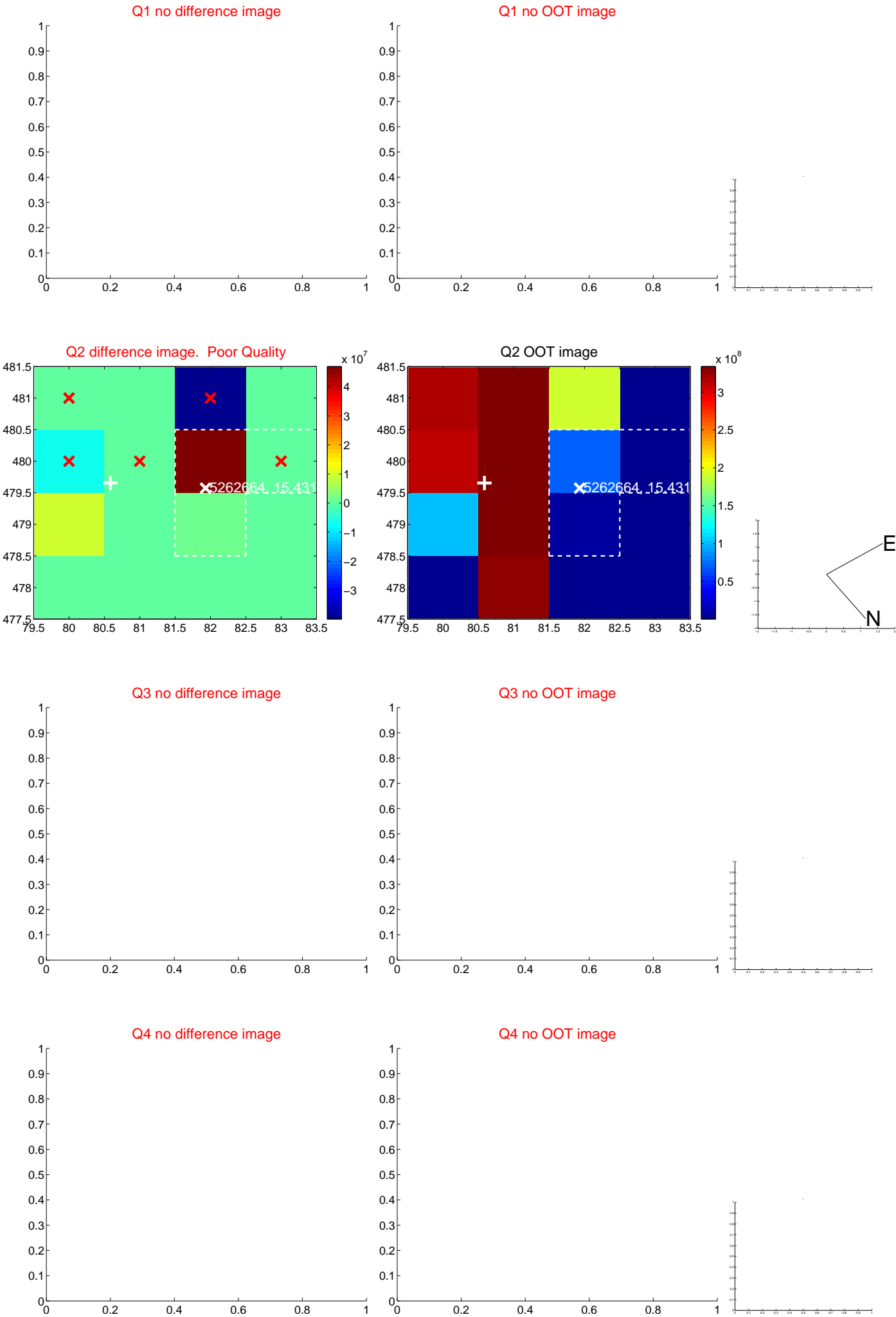
There is no PRF-fit offset from OOT-fit

There is no PRF-fit offset from KIC

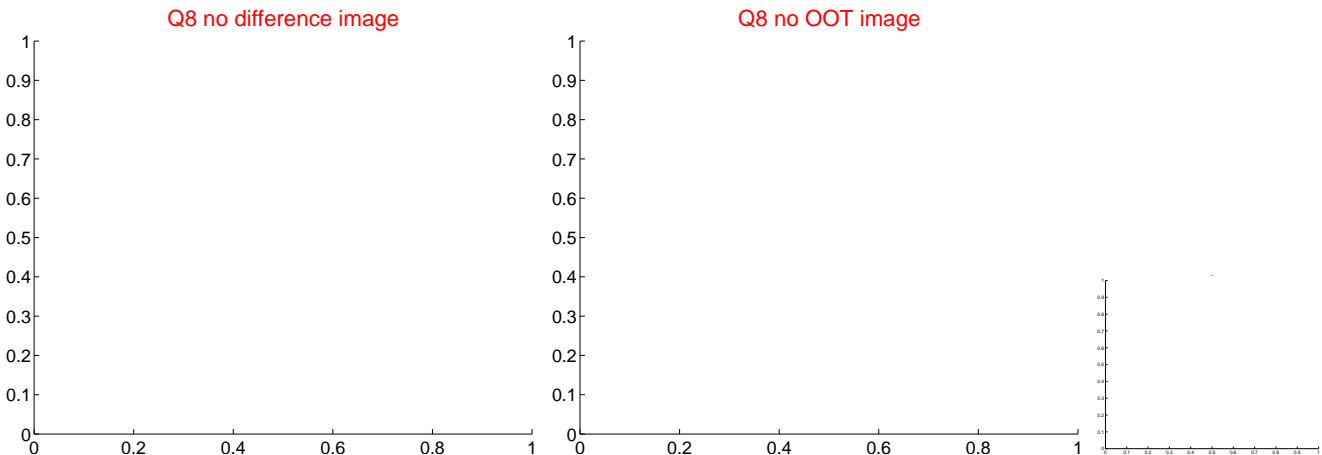
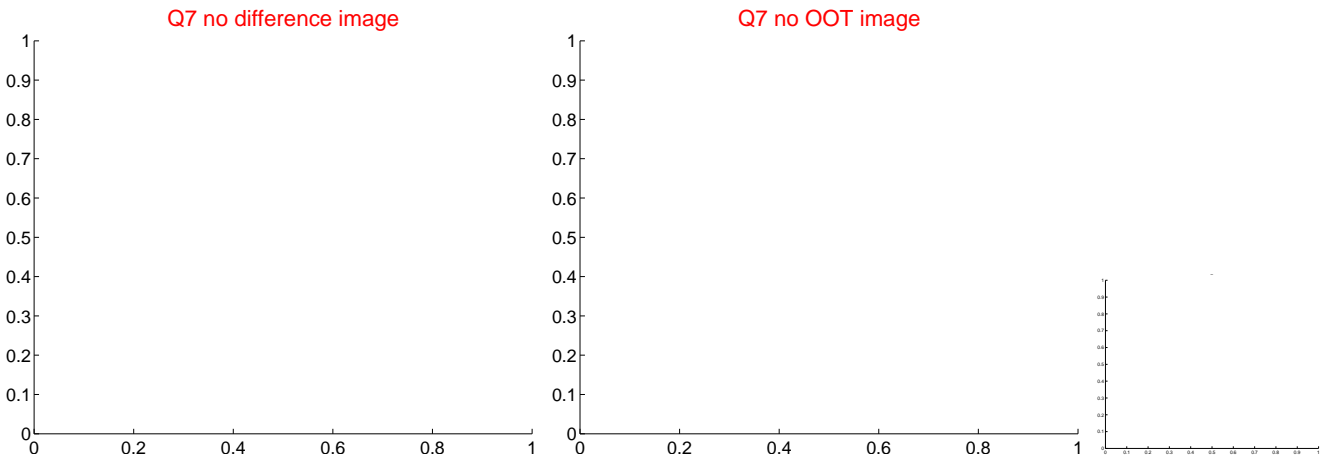
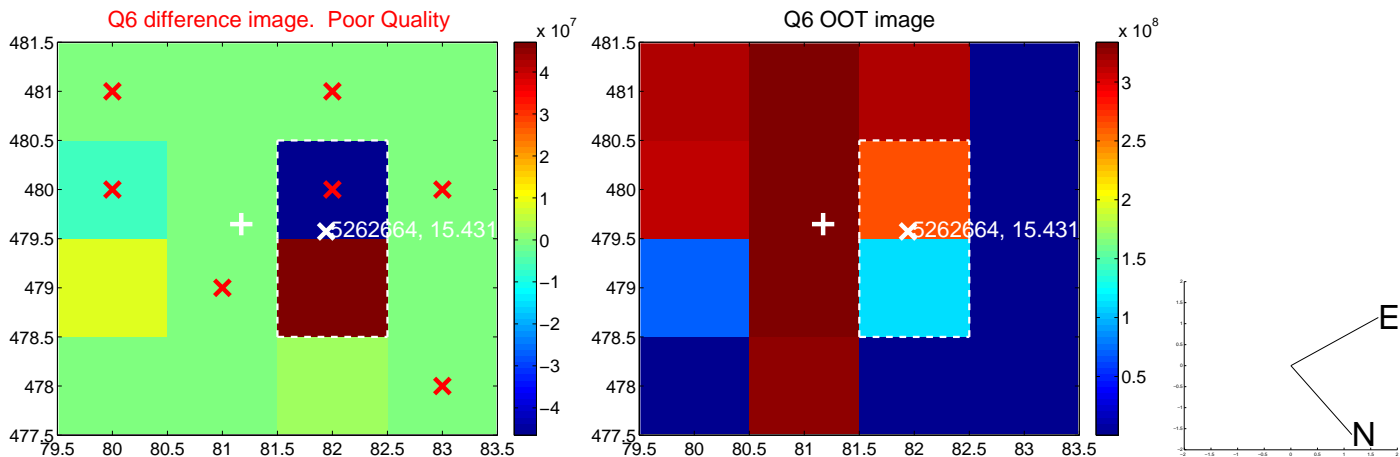
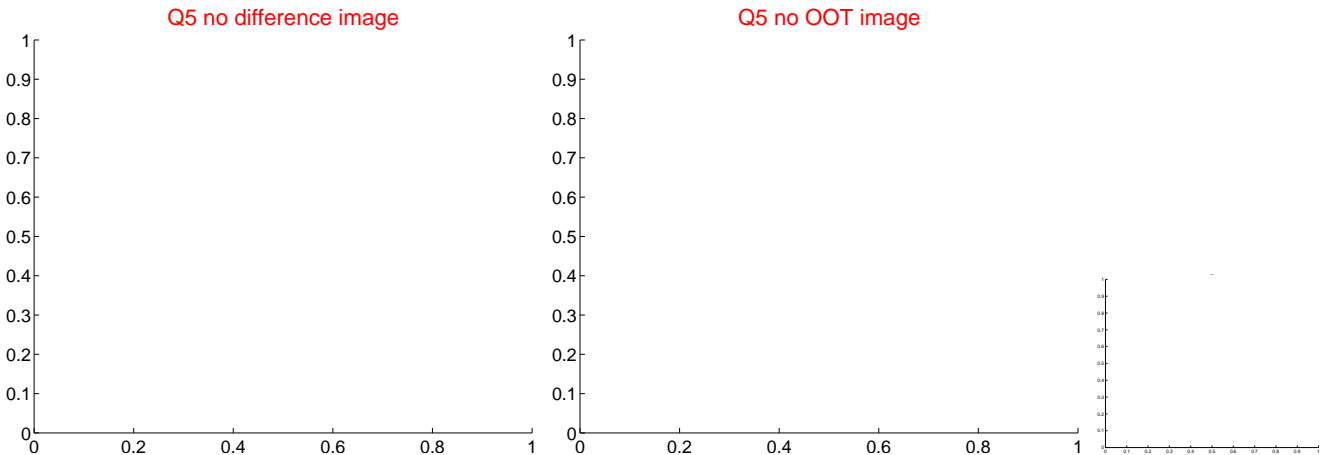


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

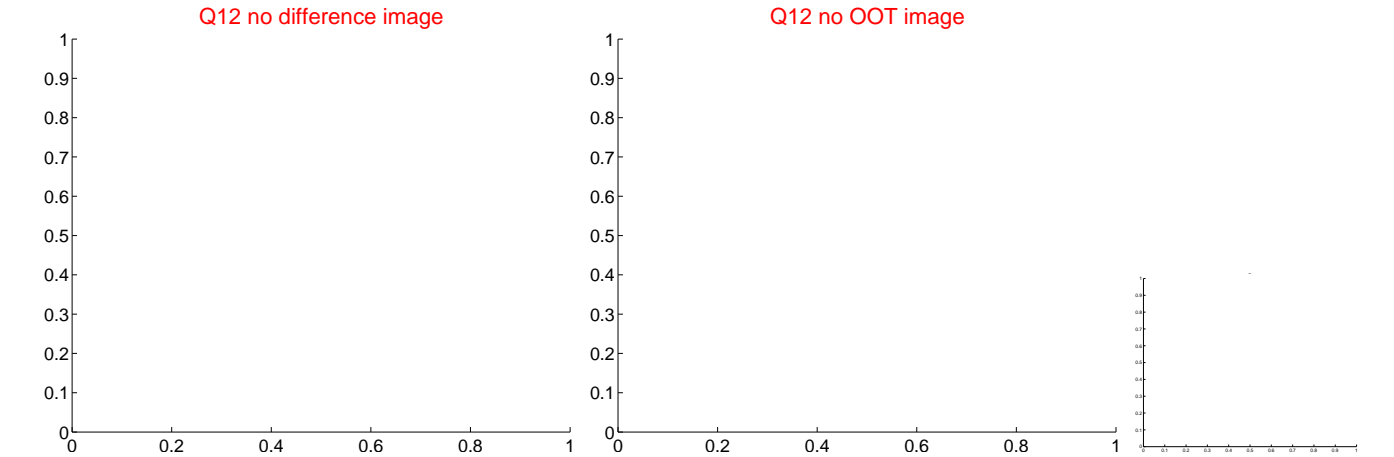
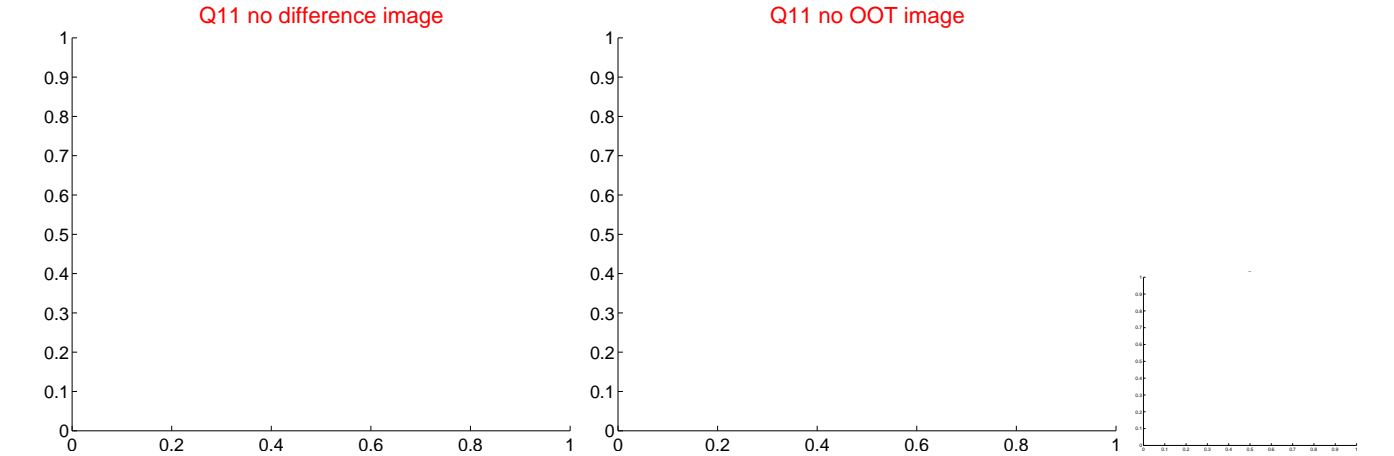
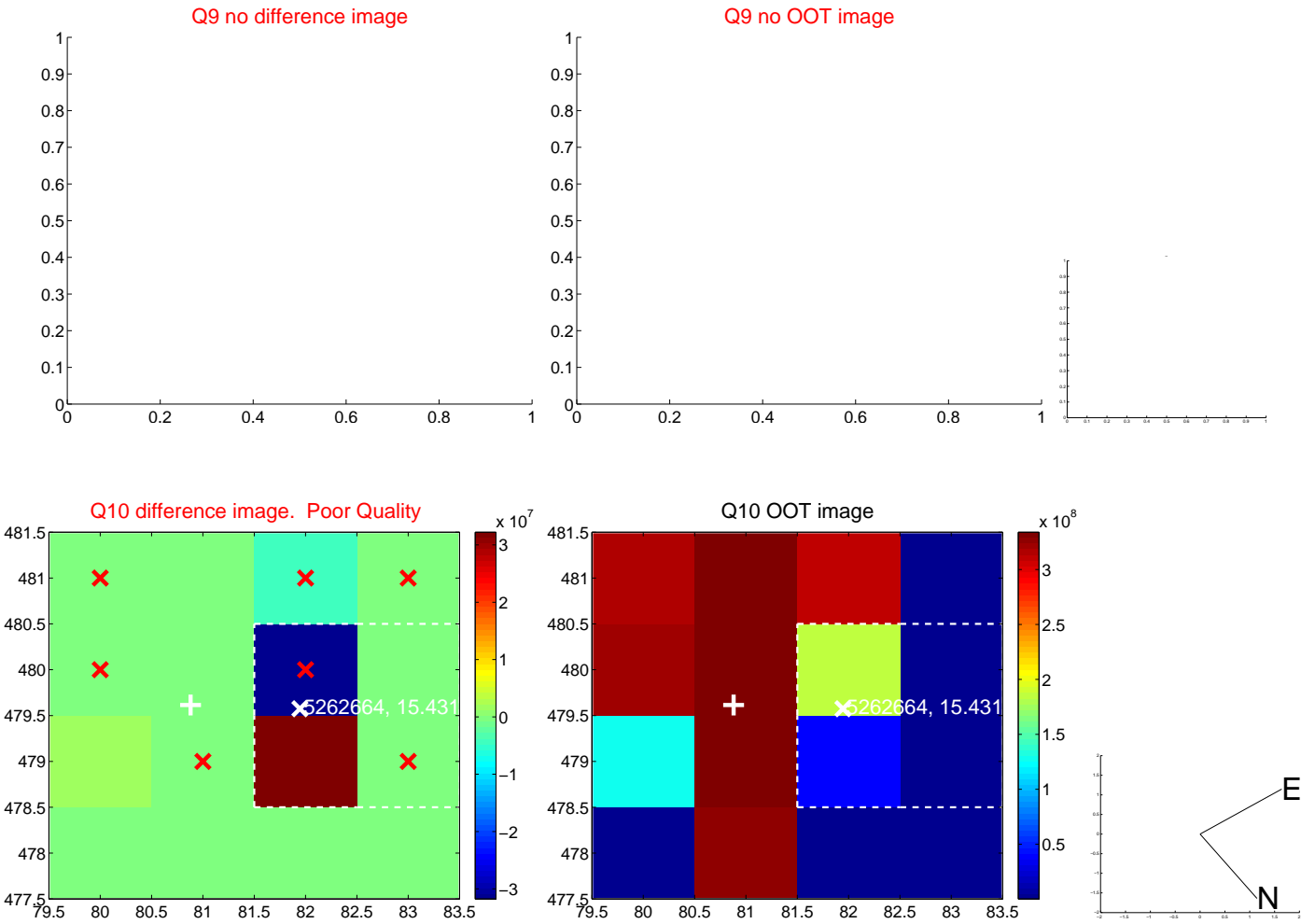
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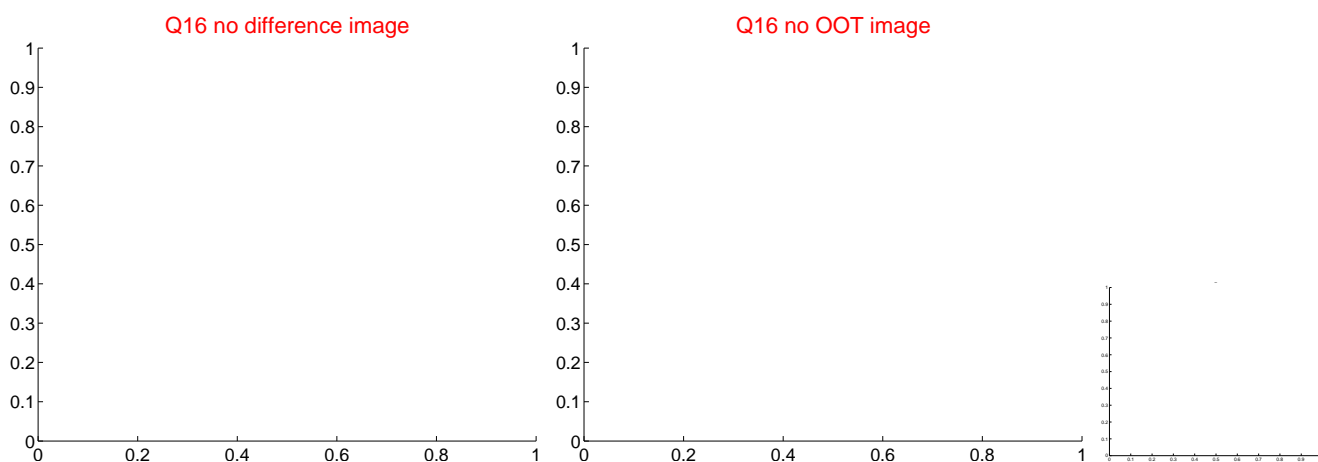
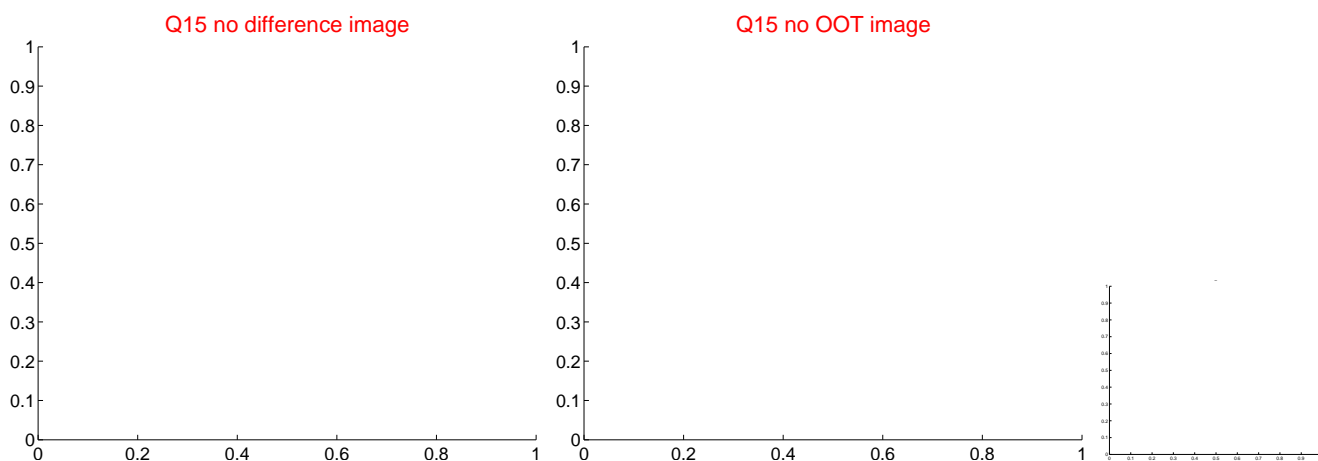
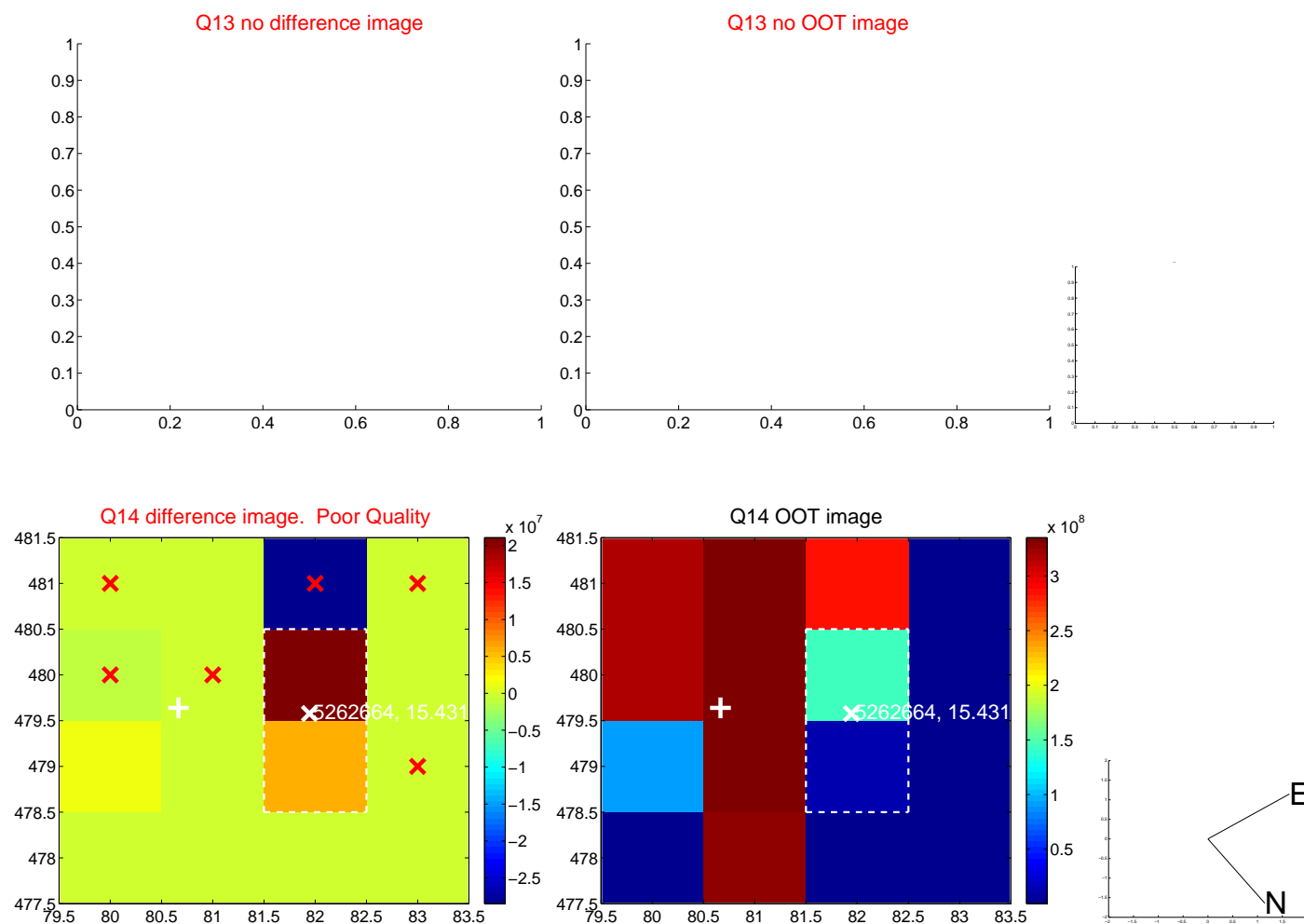
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



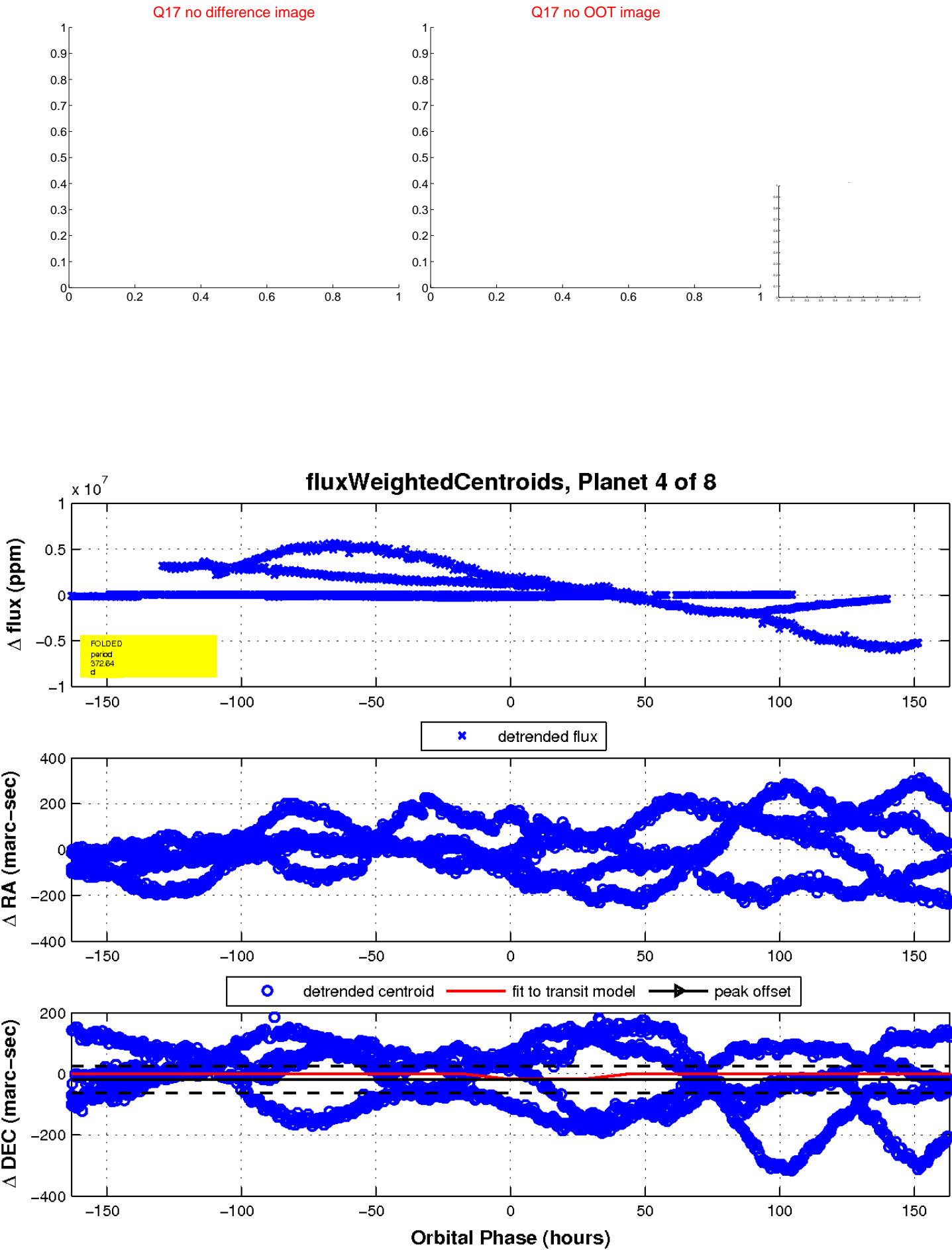
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value

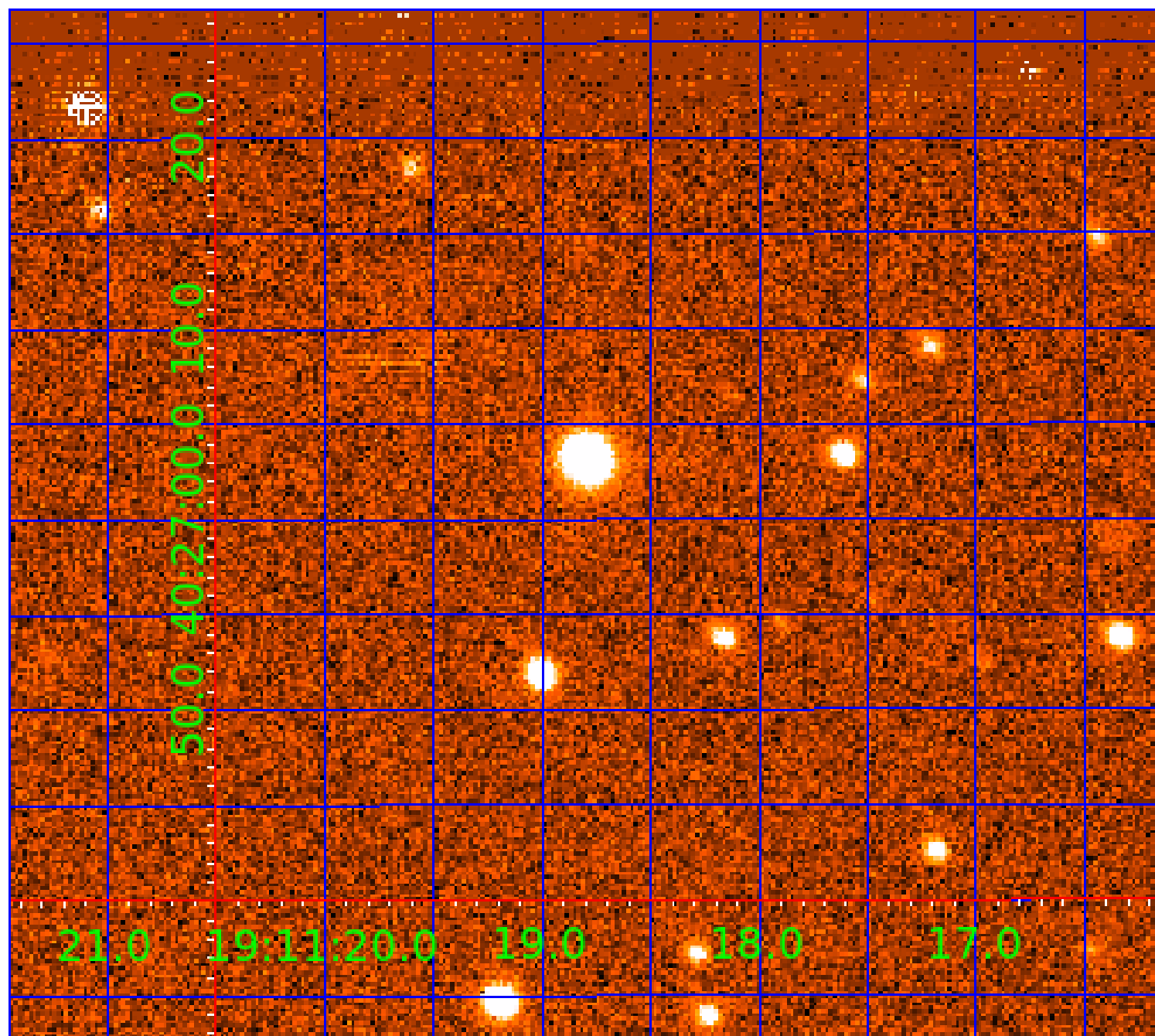


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005262664

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}) |
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| 005262664-01 | OBS | No | 365.920200 | 208.663428 | 78.8 | 2.620 | 188.6 | 1.0 | 0.65 | 4771 | 0.61 | 0.26 |
| 005262664-02 | OBS | No | 364.085172 | 217.788295 | 103607.9 | 15.000 | 273.4 | -1.0 | 0.65 | 4771 | 20.22 | 0.27 |
| 005262664-03 | OBS | No | 371.822680 | 200.842063 | 68946.7 | 15.000 | 217.5 | -1.0 | 0.65 | 4771 | 16.46 | 0.26 |
| 005262664-04 | OBS | No | 372.640023 | 205.317013 | 772566.2 | 15.000 | 204.8 | -1.0 | 0.65 | 4771 | 19.45 | 0.26 |
| 005262664-05 | OBS | No | 378.445434 | 196.712296 | 168223.1 | 91.262 | 142.0 | 32.9 | 0.65 | 4771 | 45.21 | 0.25 |
| 005262664-06 | OBS | No | 386.021749 | 445.972289 | 79375.7 | 5.327 | 137.9 | 90.3 | 0.65 | 4771 | 17.66 | 0.24 |
| 005262664-07 | OBS | No | 240.211680 | 256.692238 | 1349.8 | 49.443 | 115.3 | 10.0 | 0.65 | 4771 | 3.06 | 0.46 |
| 005262664-08 | OBS | No | 302.205541 | 203.283873 | 19853.1 | 12.000 | 54.9 | -1.0 | 0.65 | 4771 | 8.81 | 0.34 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|---|
| 005262664-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-02 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-07 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-08 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS |

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

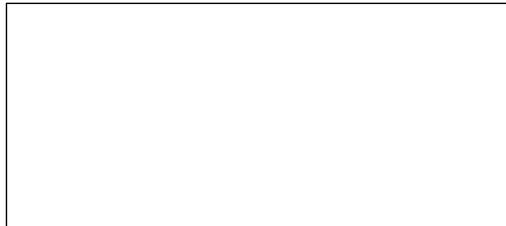
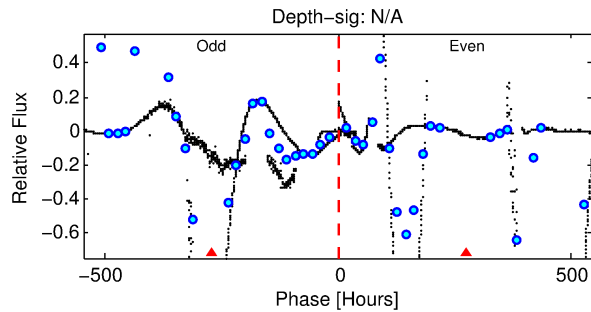
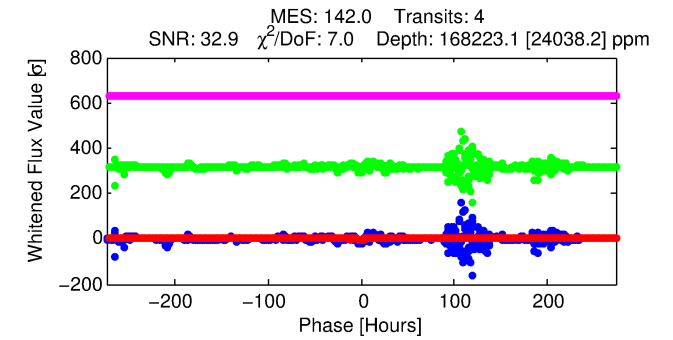
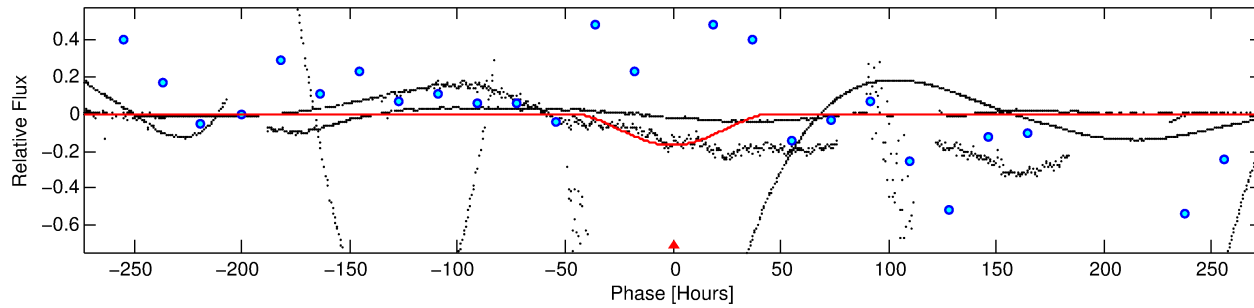
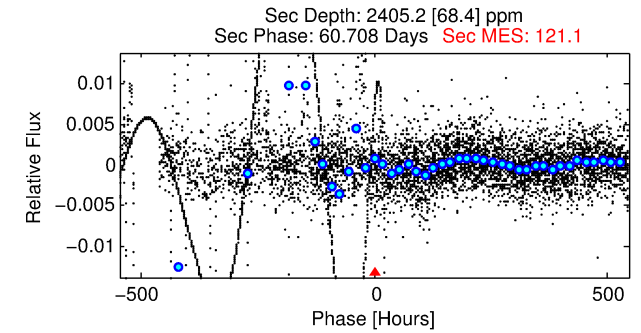
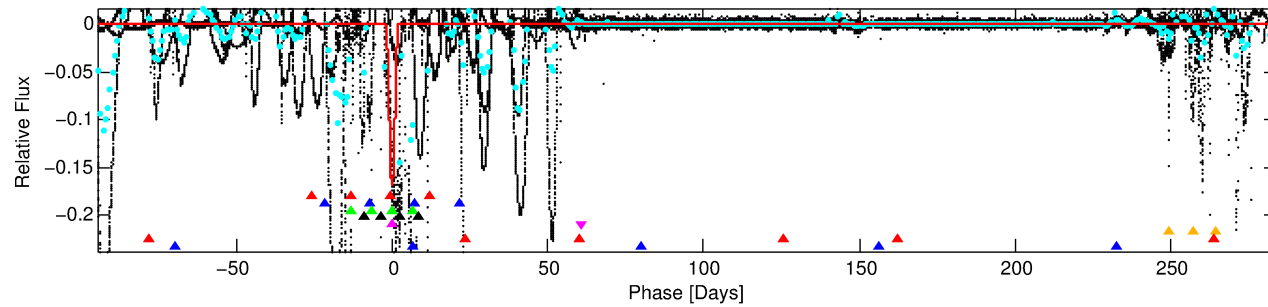
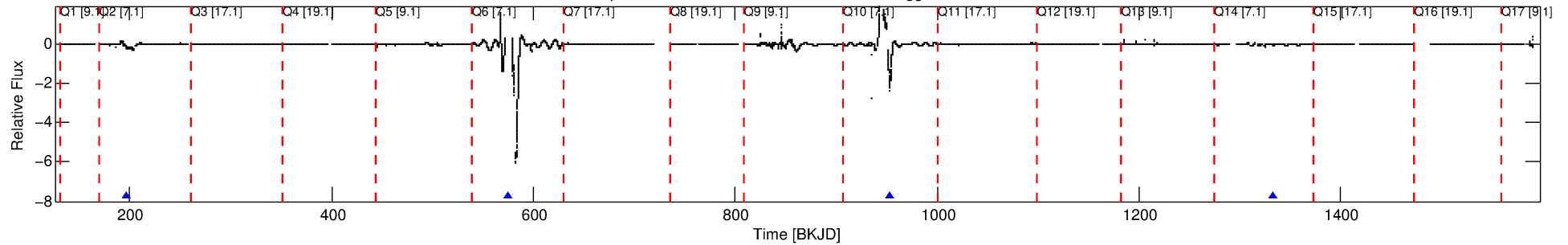
Ephemeris Match Information For 005262664-05

No Significant Match Found

DV One-Page Summary

KIC: 5262664 Candidate: 5 of 8 Period: 378.445 d

Kp: 15.43 R*: 0.65 Rs Teff: 4771.0 K Logg: 4.62 Fe/H: -0.480



DV Fit Results:

Period = 378.44543 [0.03247] d
Epoch = 196.7123 [0.0267] BKJD
Rp/R* = 0.6414 [0.3669]
a/R* = 41.25 [3.75]
b = 1.00 [0.41]
Seff = 0.25 [0.04]
Teq = 181 [7] K
Rp = 45.21 [26.22] Re
a = 0.8781 [0.0669] AU
Ag = 499.08 [573.56] [0.87σ]
Teffp = 1319 [380] K [3.00σ]

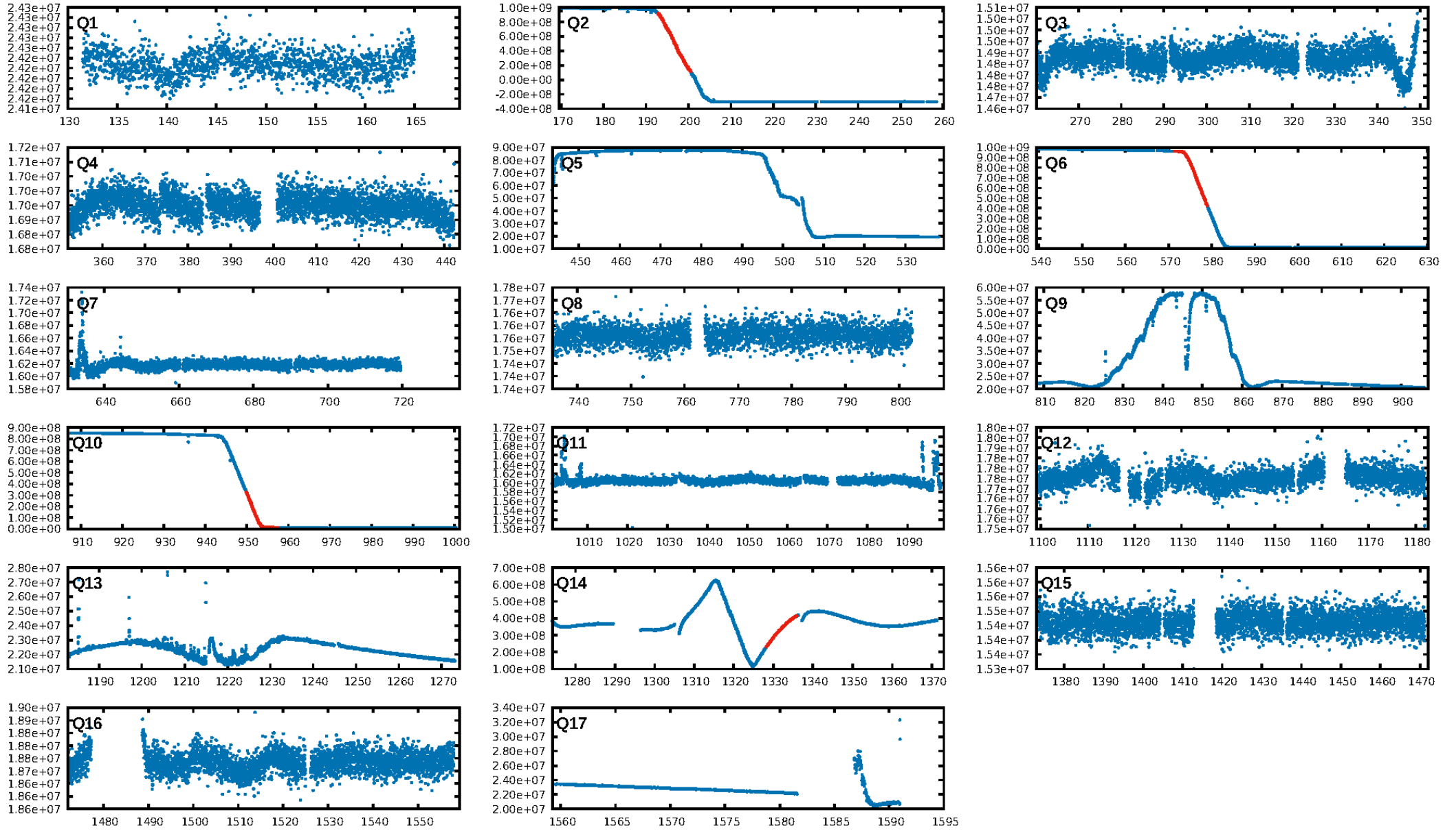
DV Diagnostic Results:

ShortPeriod-sig: 86.8% [1.51σ]
LongPeriod-sig: 95.3% [1.99σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -1.214
Centroid-sig: N/A
Centroid-so: 2.155 arcsec [4.92σ]
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: 0.00 [0/2]

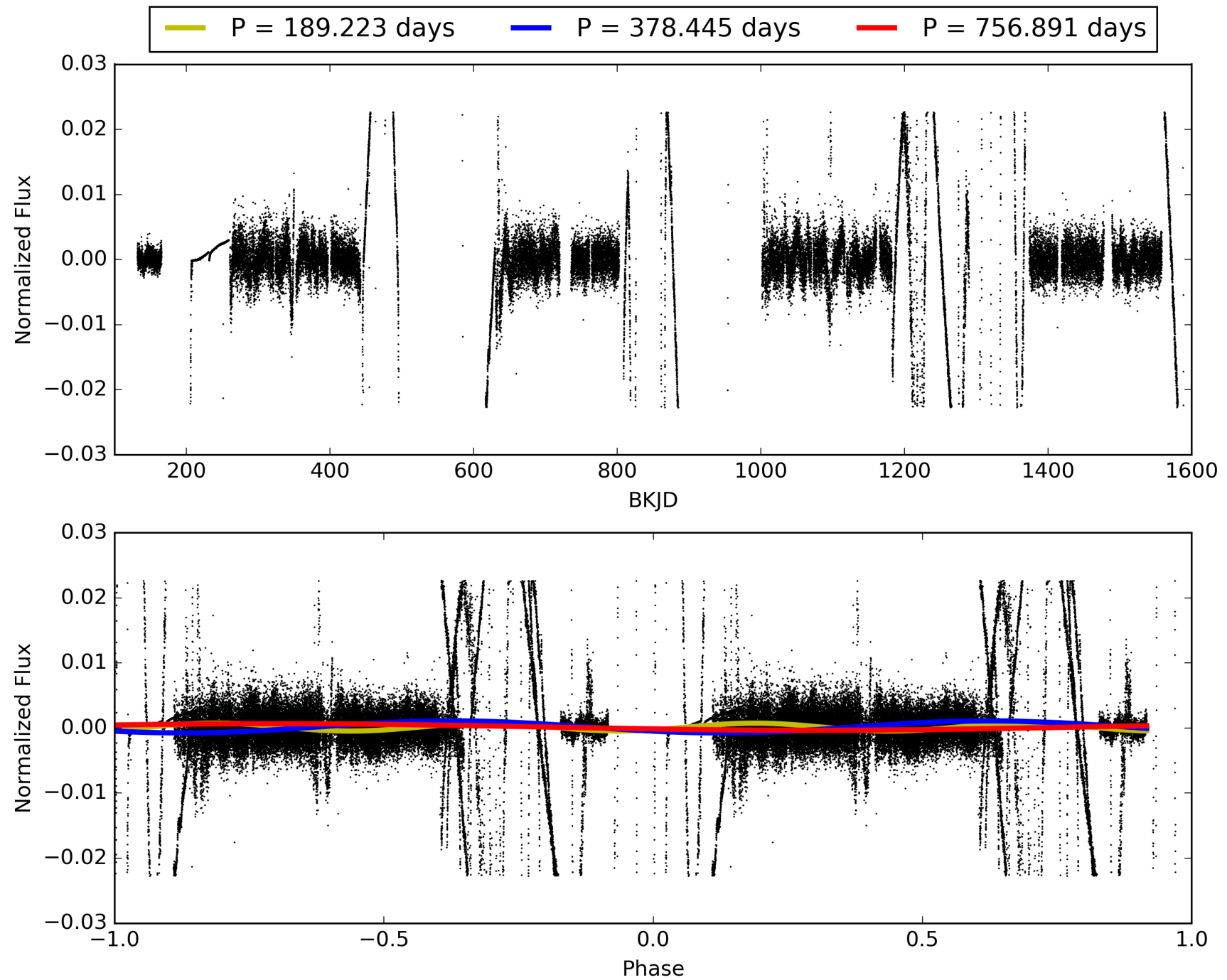
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 01:30:36 Z

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

TCE 005262664-05, PDC Light Curves

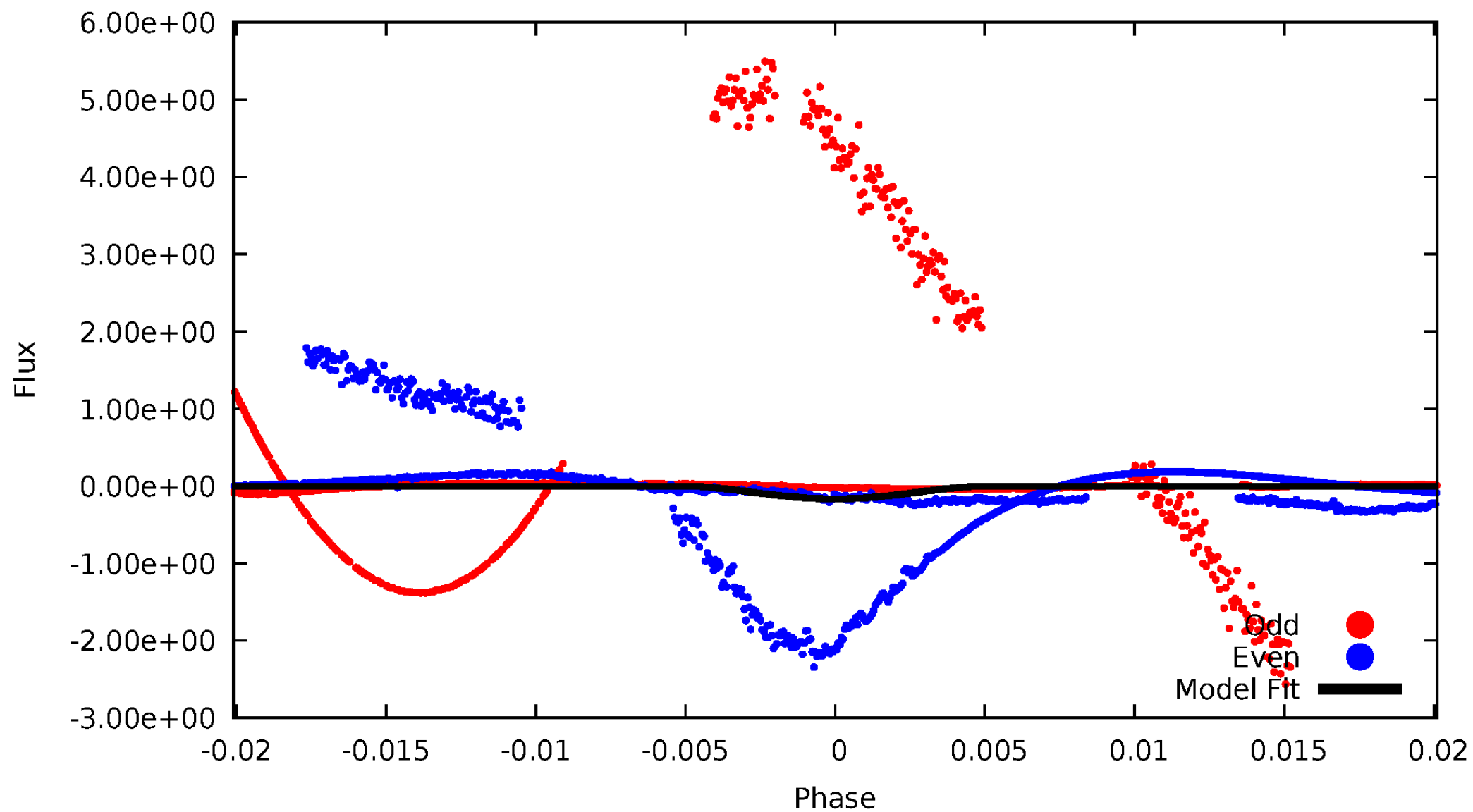


TCE 005262664-05



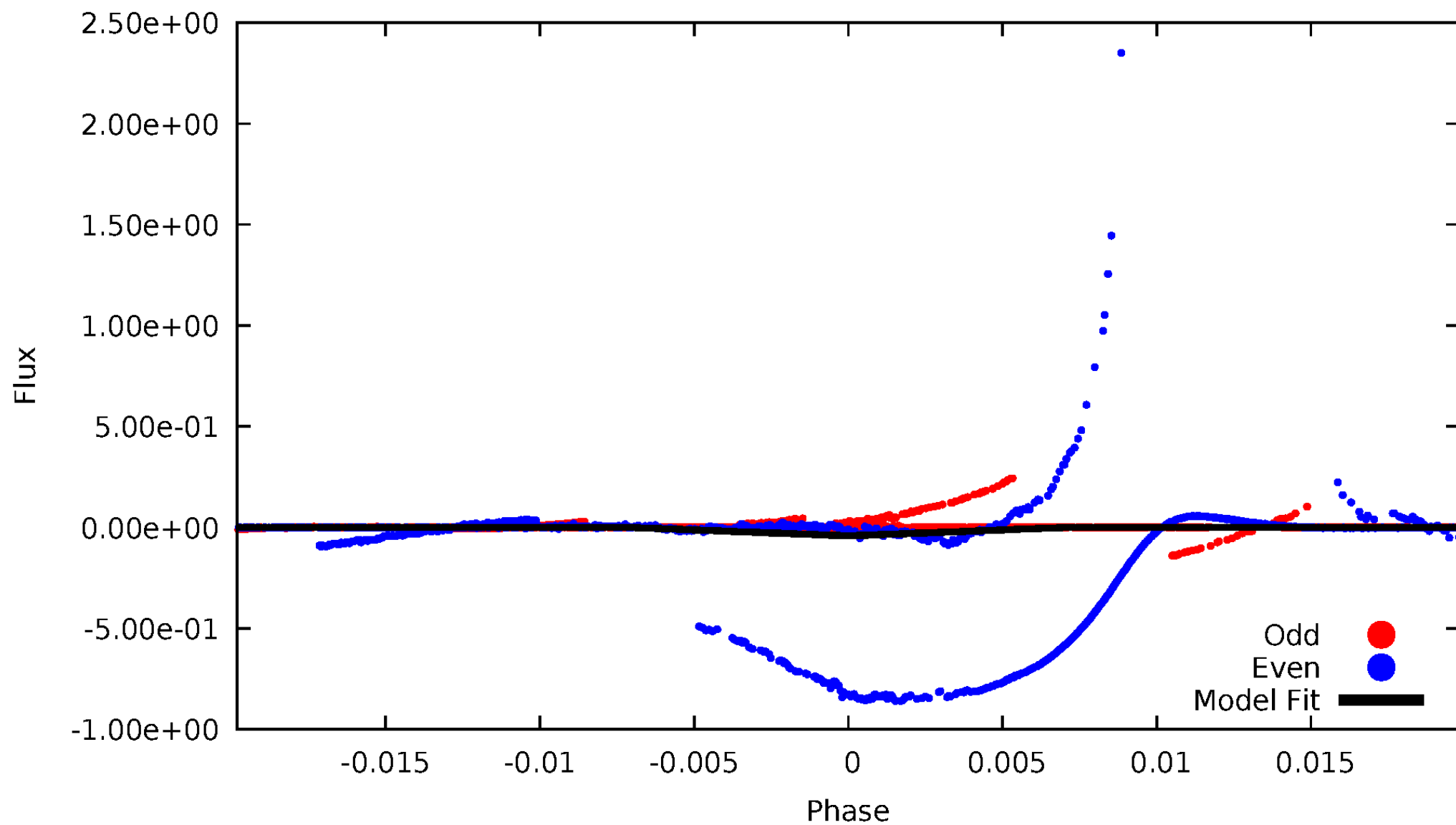
DV Odd/Even

TCE 005262664-05



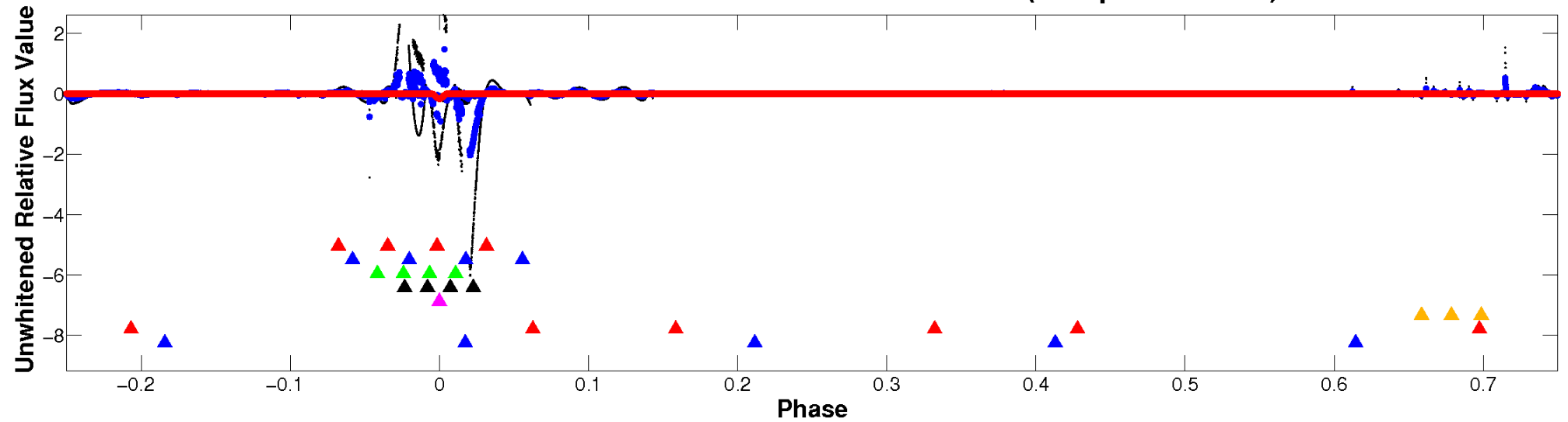
ALT Odd/Even

TCE 005262664-05

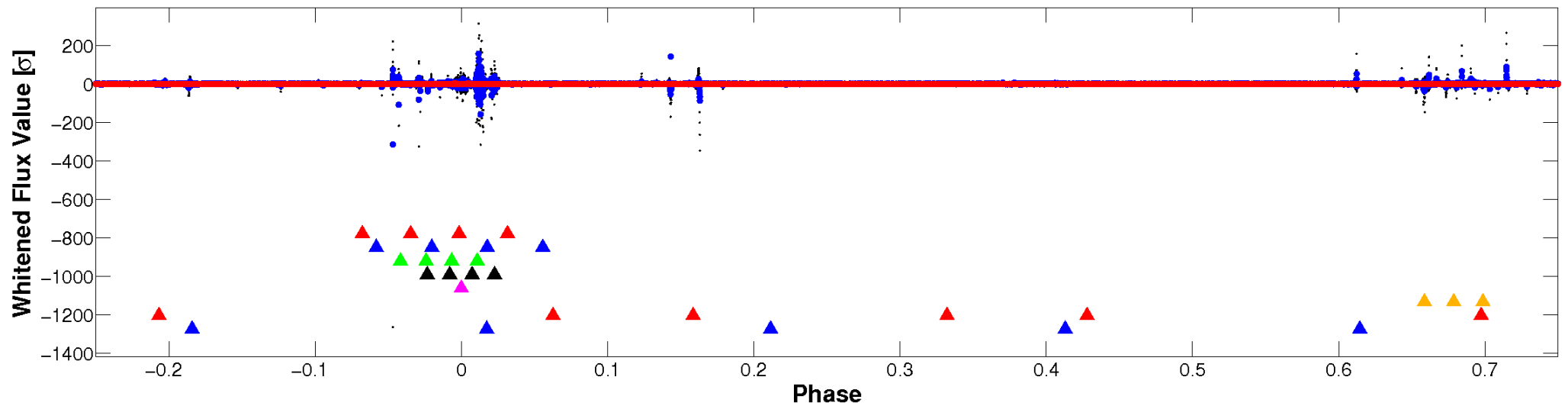


Non-Whitened Vs. Whitened Light Curve

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

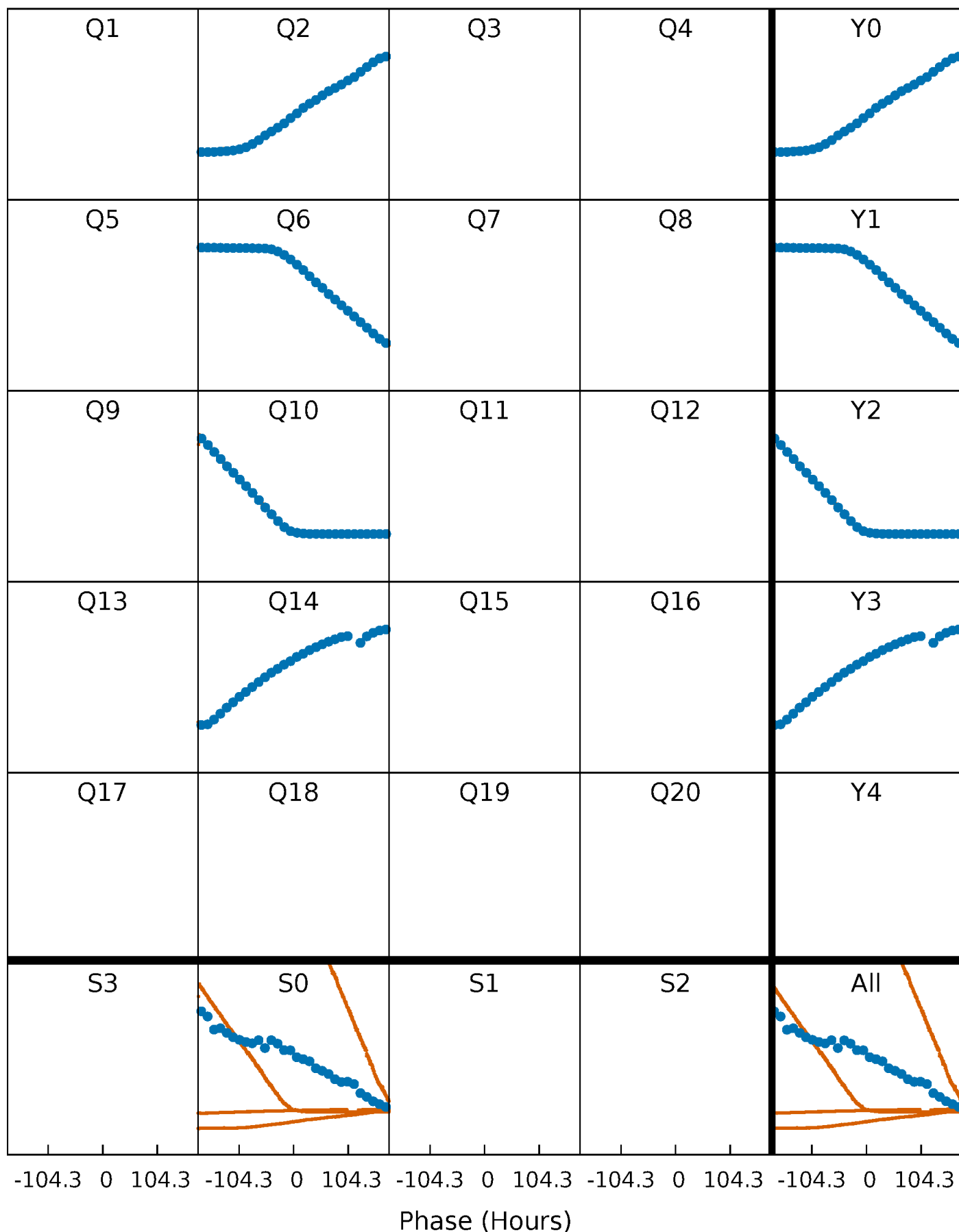


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



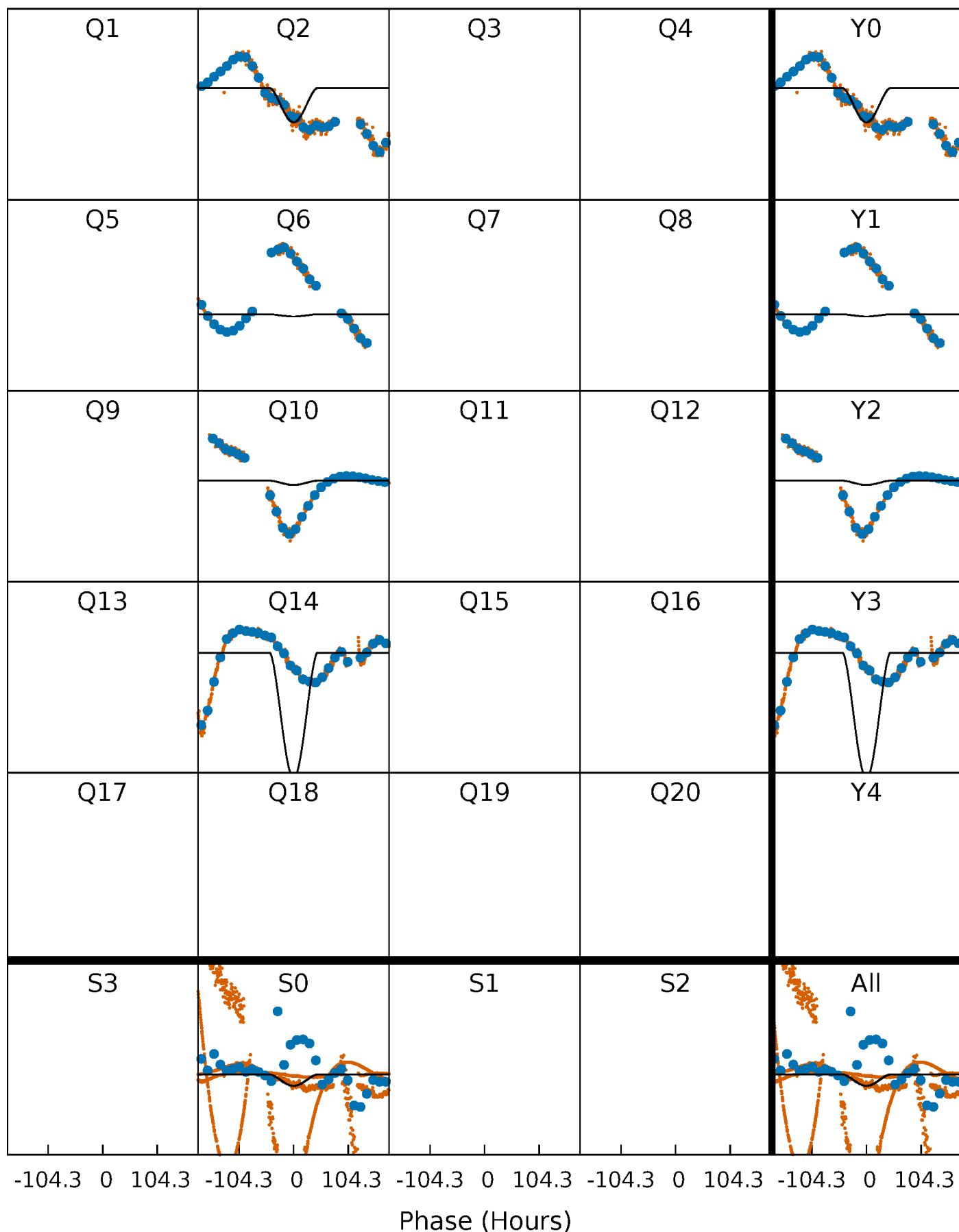
PDC Quarter-Phased Transit Curves

TCE 005262664-05 $P=378.445434$ Days $T_0=196.712296$ (BKJD)



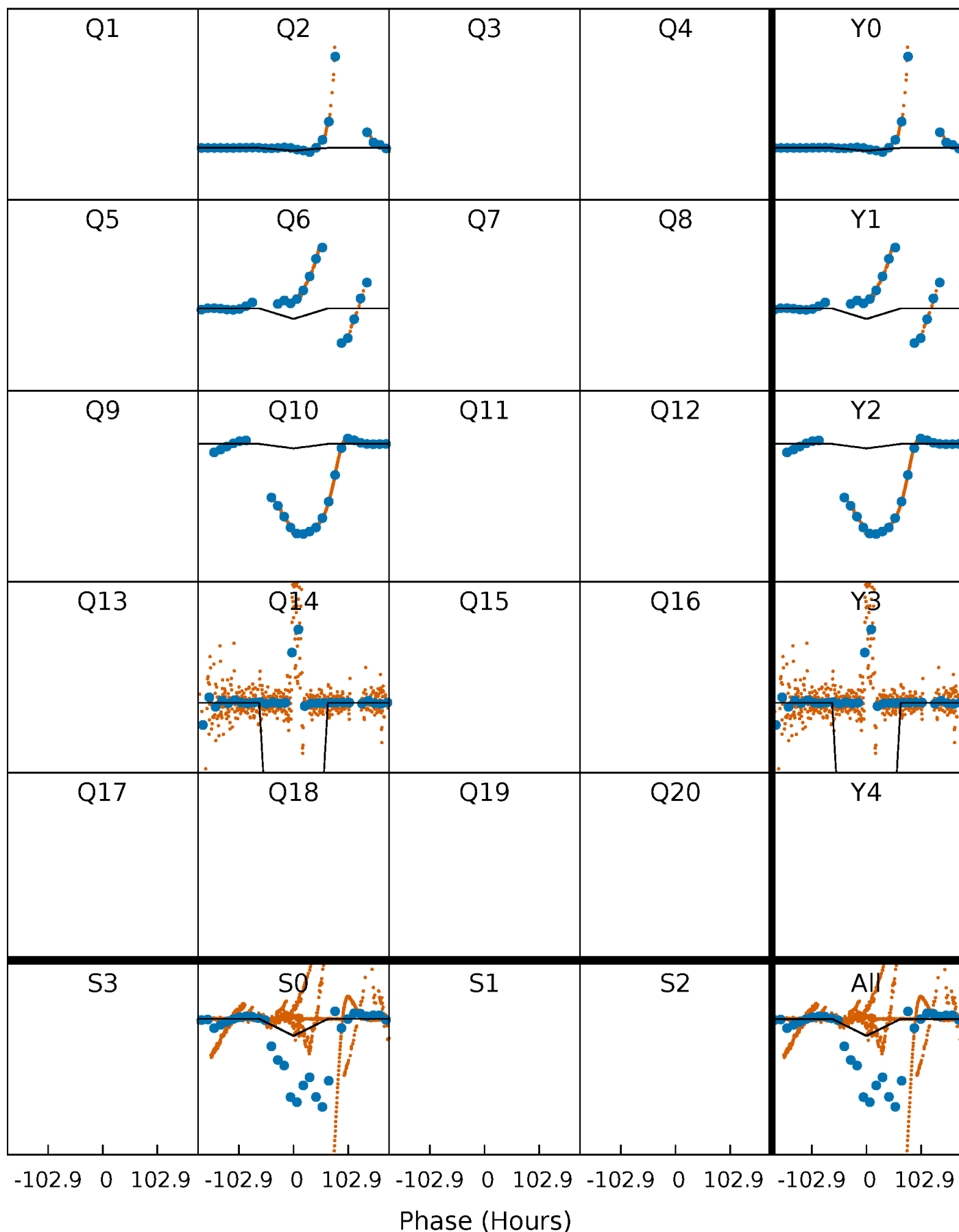
DV Quarter-Phased Transit Curves

TCE 005262664-05 $P=378.445434$ Days $T_0=196.712296$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

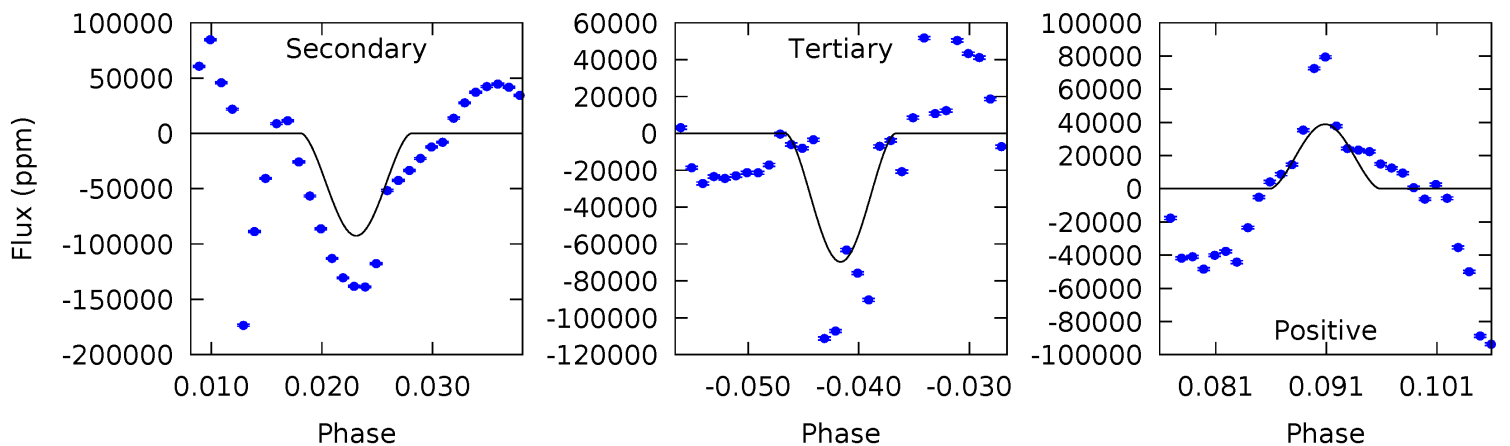
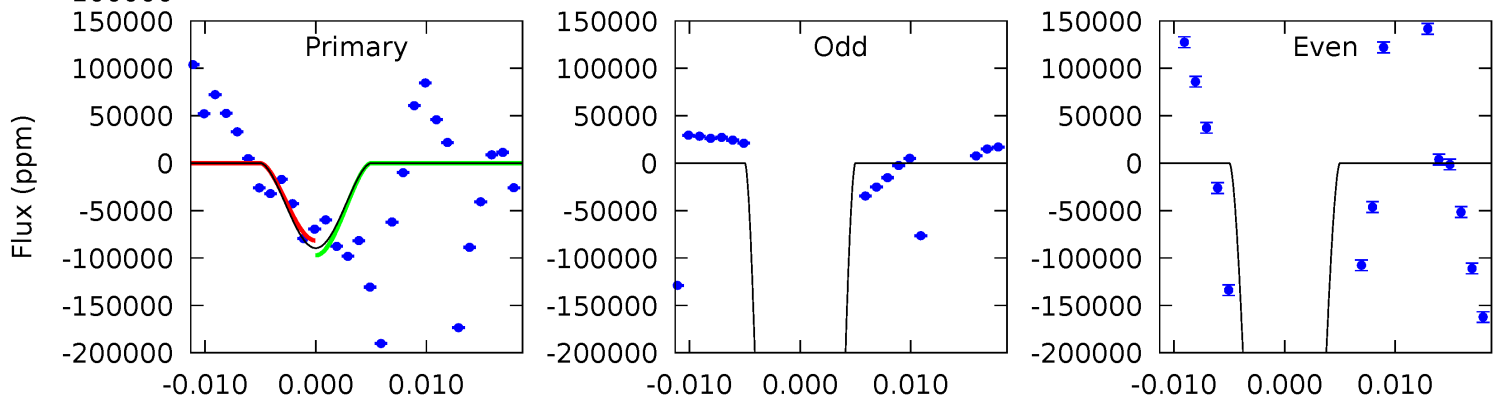
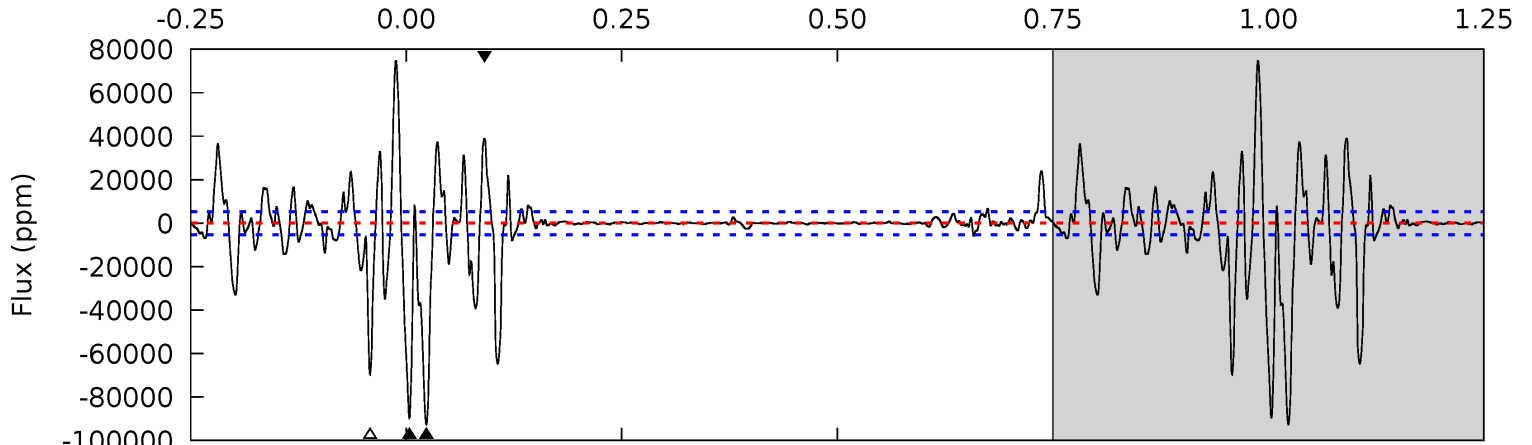
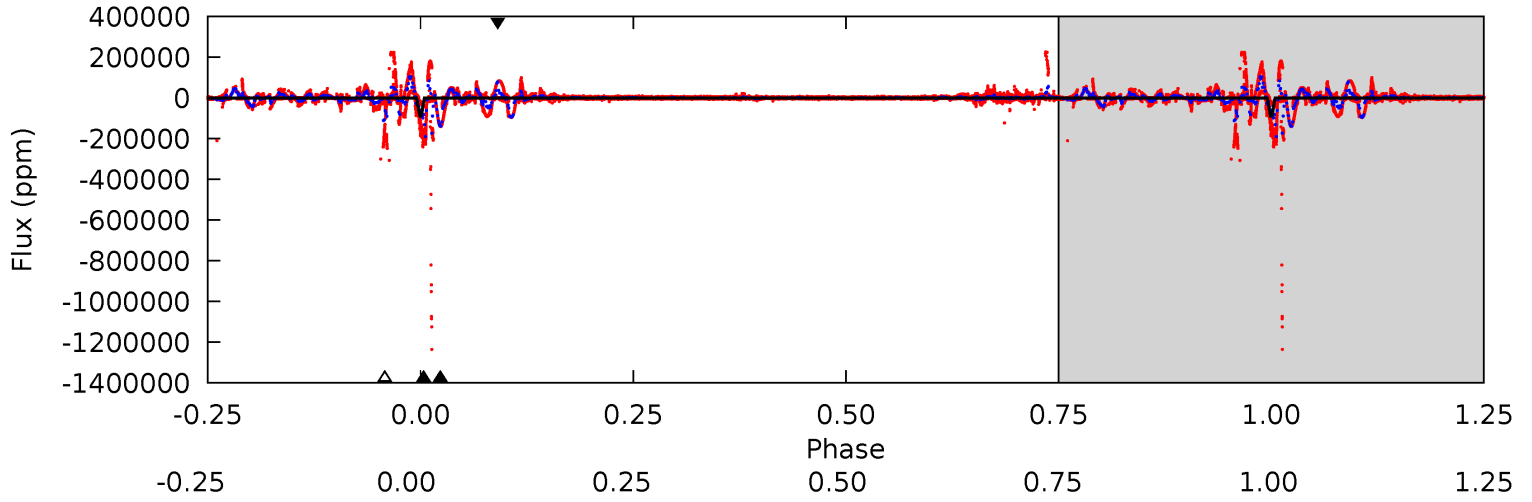
TCE 005262664-05 P=378.456776 Days $T_0=196.494526$ (BKJD)



DV Model-Shift Uniqueness Test

005262664-05, P = 378.445434 Days, E = 196.712296 Days

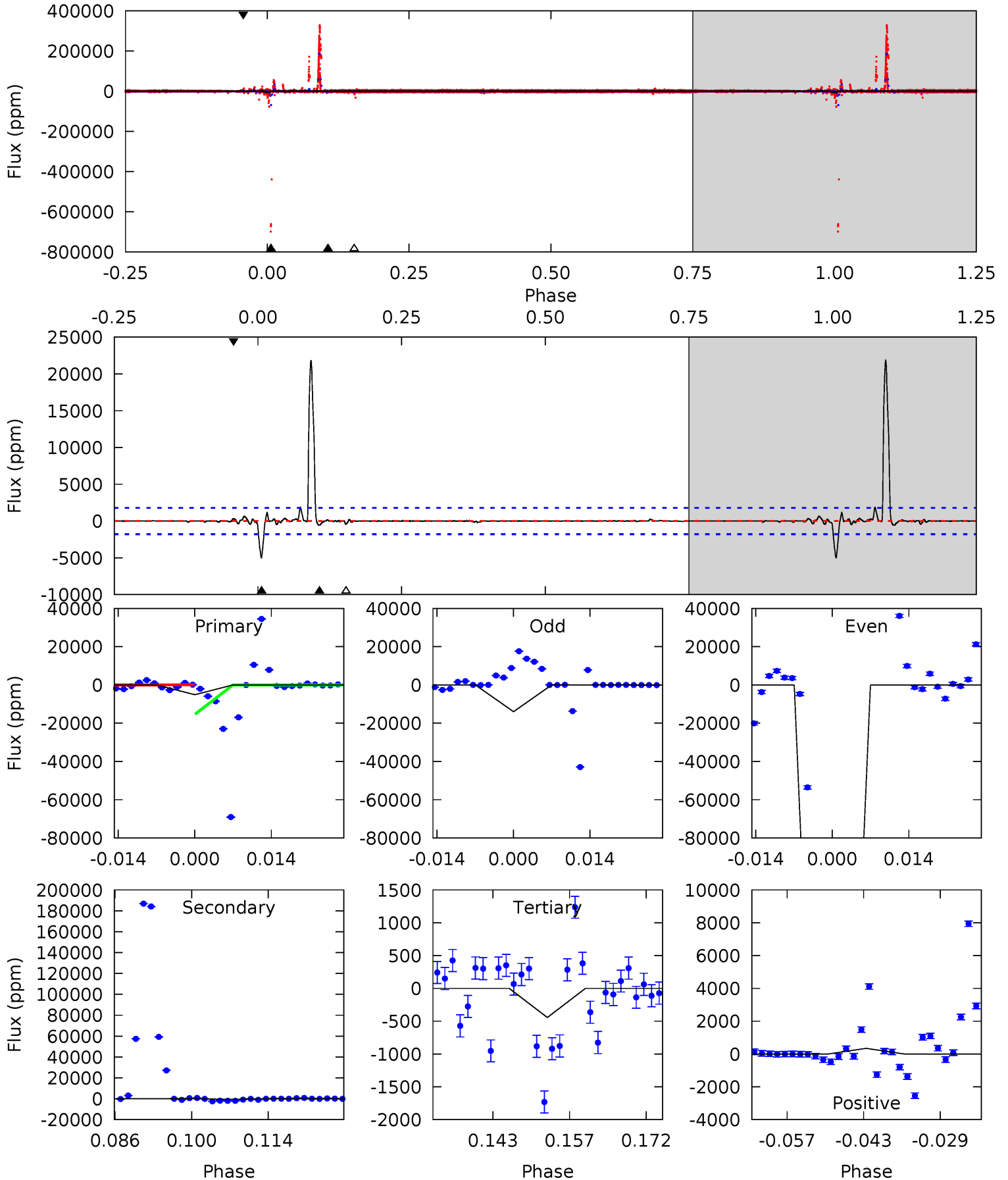
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|-------|-------|-----|
| 84.8 | 87.6 | 65.9 | 36.8 | 5.02 | 2.57 | 9.16 | 18.8 | 48.0 | 21.7 | 50.8 | 48.4 | -7.55 | 0.45 | 0 |



Alt Model-Shift Uniqueness Test

005262664-05, P = 378.456776 Days, E = 196.494526 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 14.0 | 1.62 | 1.21 | 0.94 | 4.96 | 2.45 | 2.23 | 12.7 | 13.0 | 0.41 | 0.68 | 424.7 | 34.4 | 0.81 | 16.5 |



Stellar Parameters For KIC 005262664

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | R (R_{\odot}) | $M(M_{\odot})$ | p_{\star} ($\text{g}\cdot\text{cm}^{-3}$) |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 4771^{+142}_{-128} | $4.617^{+0.054}_{-0.031}$ | $-0.480^{+0.300}_{-0.300}$ | $0.646^{+0.062}_{-0.056}$ | $0.630^{+0.082}_{-0.038}$ | $3.293^{+0.797}_{-0.481}$ |
| | +3%/-3% | +1%/-1% | +62%/-62% | +10%/-9% | +13%/-6% | +24%/-15% |
| 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 005262664-05 / KOI

| Detrend | Depth (ppm) | R_p (R_{\oplus}) | T_{max} (K) | T_{obs} (K) | A_{obs} |
|---------|-------------------|---------------------------|-----------------|-----------------------|---------------------------|
| DV | -92584 ± 1057 | $46.59^{+23.21}_{-23.47}$ | 251^{+9}_{-8} | 3676^{+1032}_{-447} | 20431^{+62710}_{-11546} |
| Alt. | -585 ± 361 | $25.08^{+22.98}_{-16.31}$ | 251^{+8}_{-9} | 2116^{+660}_{-327} | 332^{+2619}_{-273} |

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 $A_{obs} \gg 1.0$

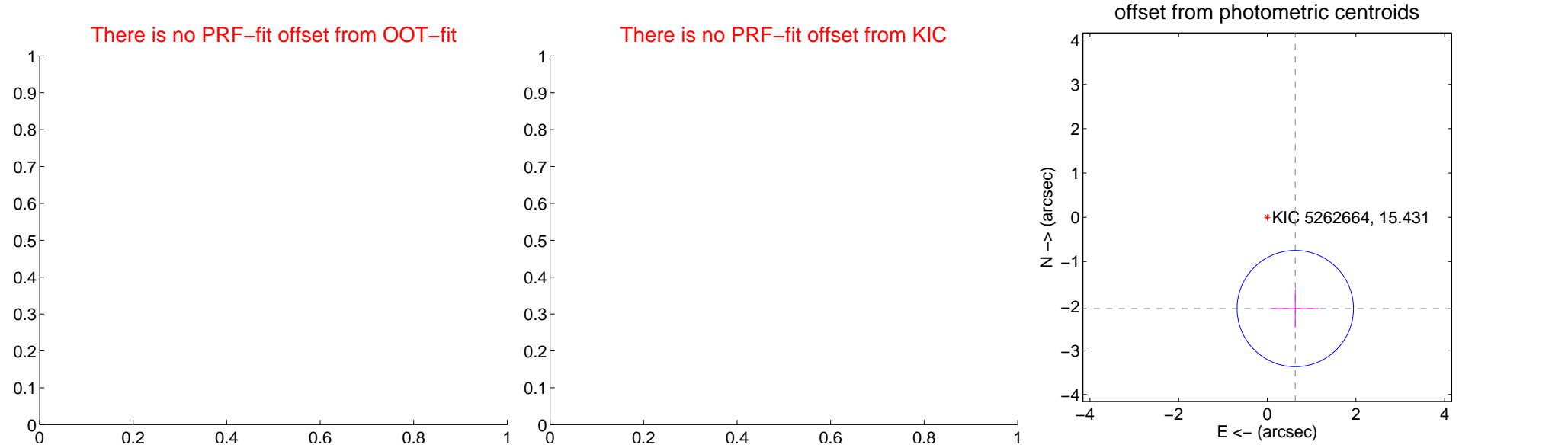
DV Centroid Data

Supplemental centroid analysis for 005262664-05. Kepler magnitude: 15.43. Transit SNR 32.88

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 | 2.15 ± 0.44 | 4.92 | -0.63 ± 0.53 | -2.06 ± 0.43 |

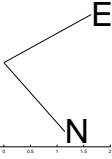
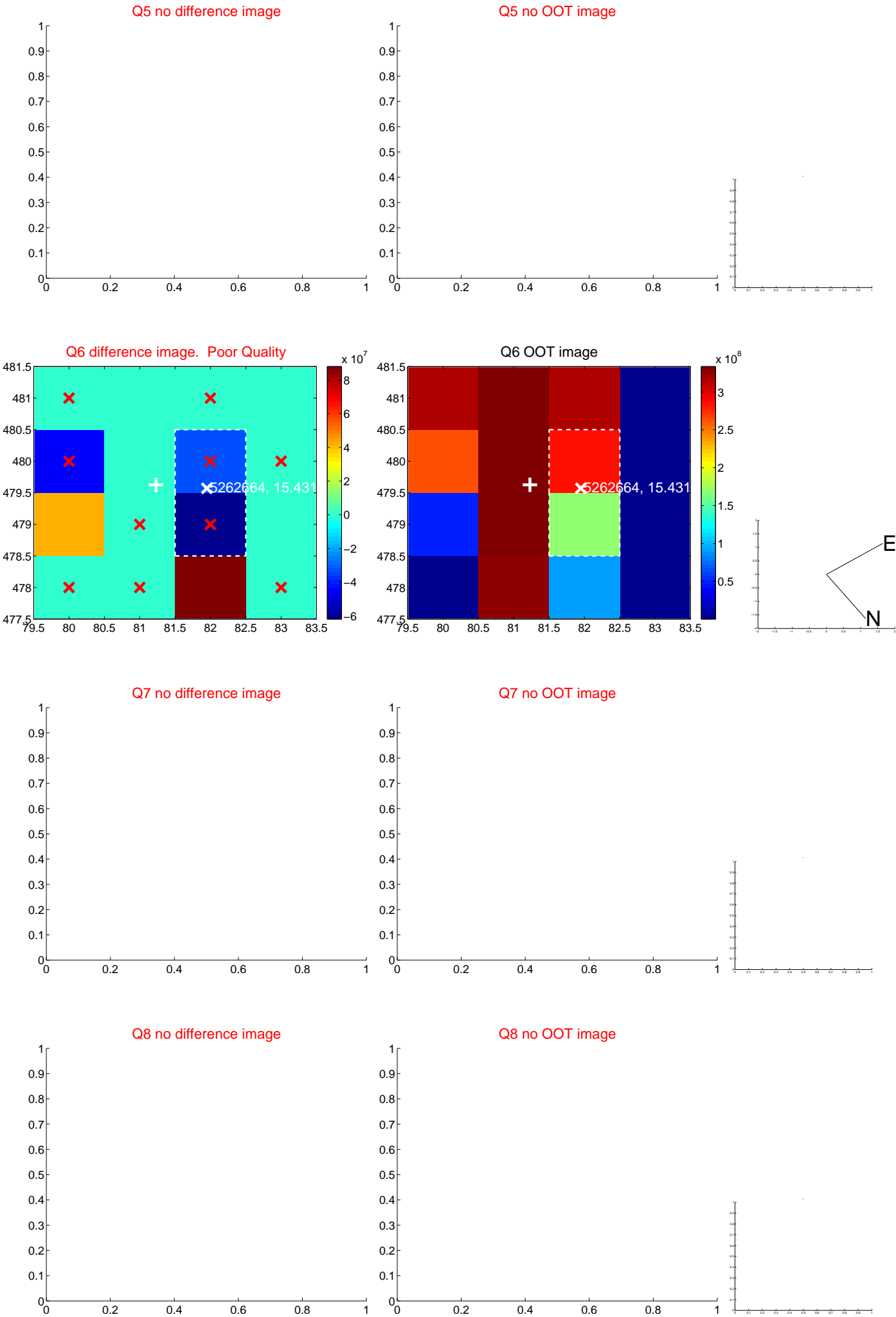


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

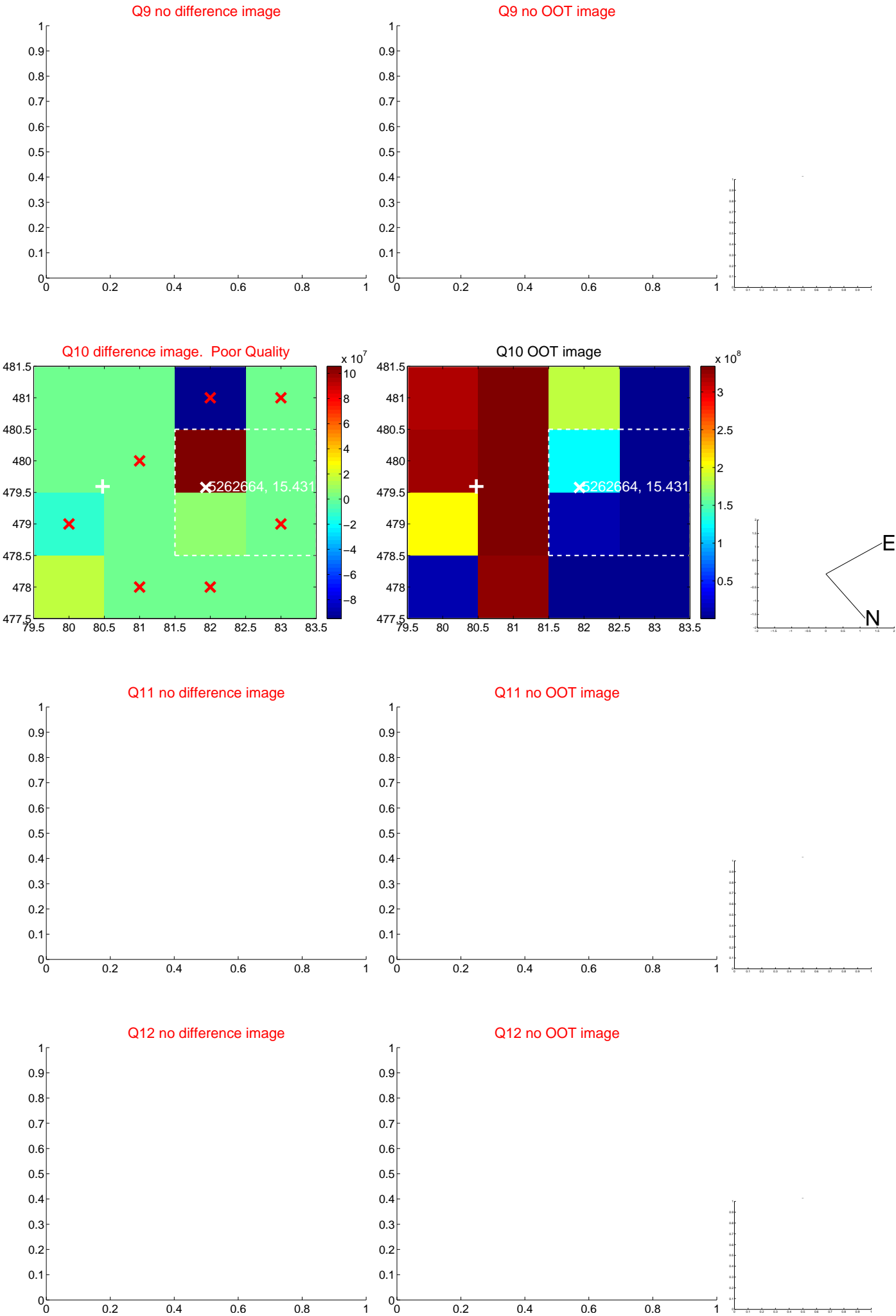
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



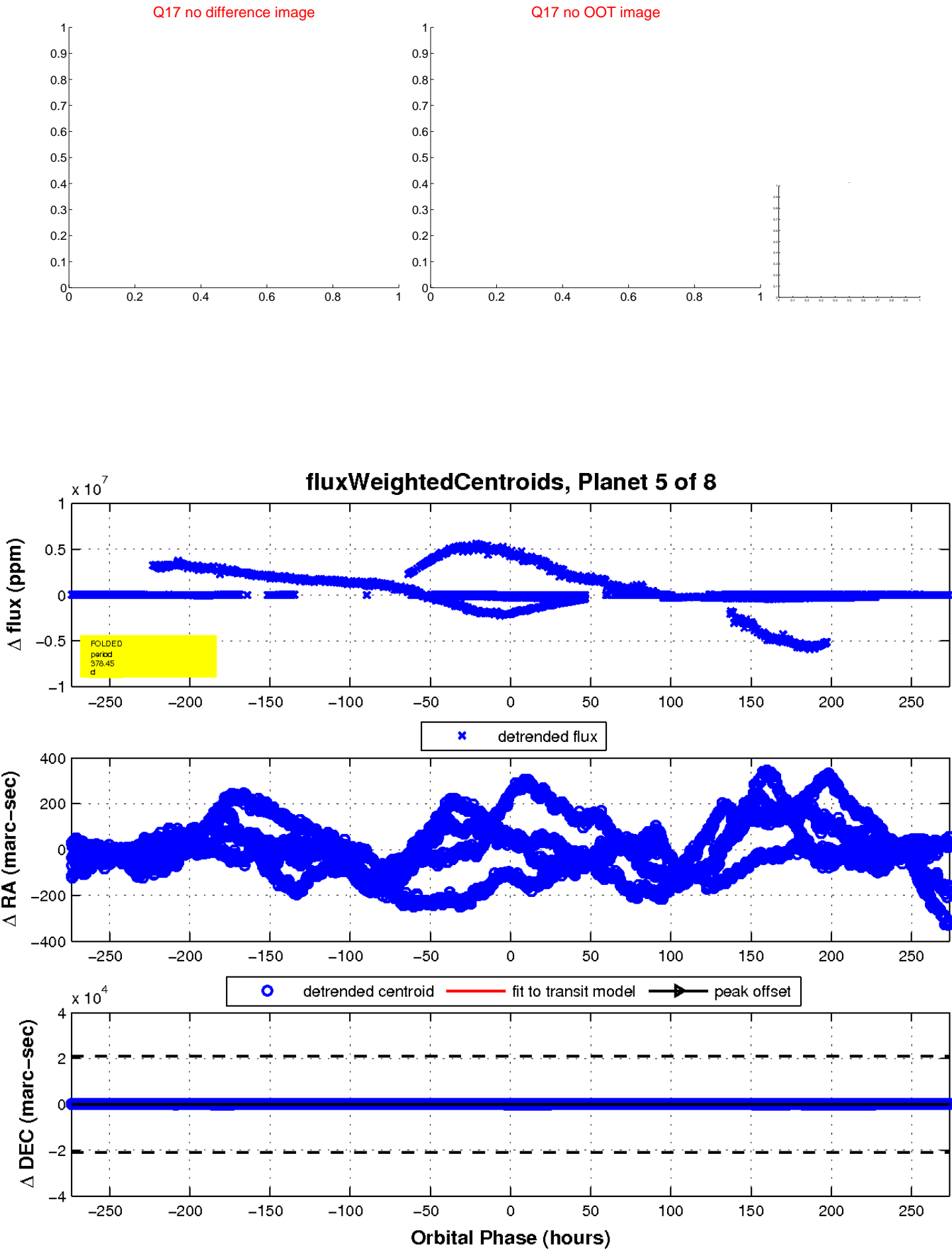
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

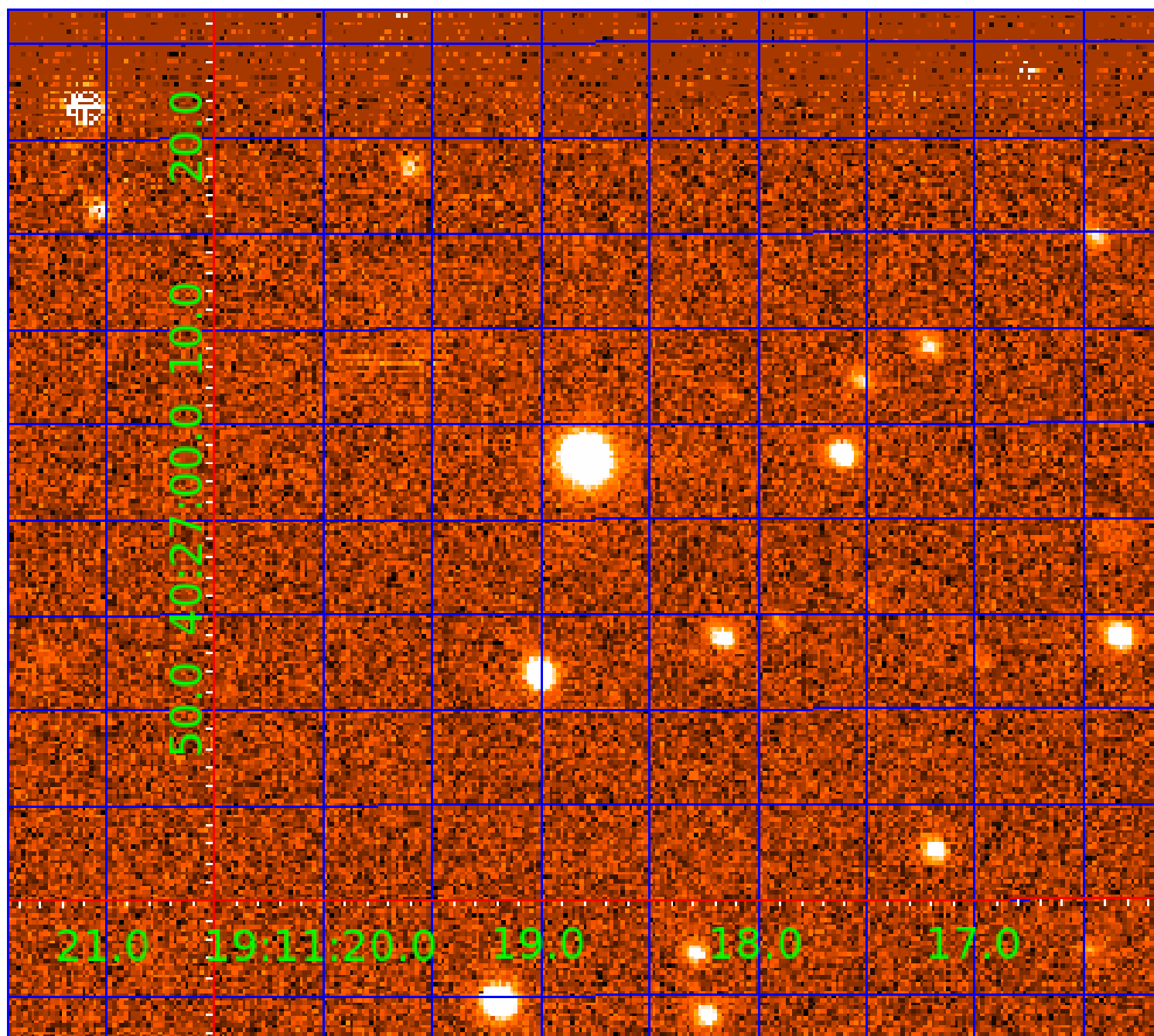


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005262664

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|-------|------|-----------------------------|-----------------|------------------------|------------------------|
| 005262664-01 | OBS | No | 365.920200 | 208.663428 | 78.8 | 2.620 | 188.6 | 1.0 | 0.65 | 4771 | 0.61 | 0.26 |
| 005262664-02 | OBS | No | 364.085172 | 217.788295 | 103607.9 | 15.000 | 273.4 | -1.0 | 0.65 | 4771 | 20.22 | 0.27 |
| 005262664-03 | OBS | No | 371.822680 | 200.842063 | 68946.7 | 15.000 | 217.5 | -1.0 | 0.65 | 4771 | 16.46 | 0.26 |
| 005262664-04 | OBS | No | 372.640023 | 205.317013 | 772566.2 | 15.000 | 204.8 | -1.0 | 0.65 | 4771 | 19.45 | 0.26 |
| 005262664-05 | OBS | No | 378.445434 | 196.712296 | 168223.1 | 91.262 | 142.0 | 32.9 | 0.65 | 4771 | 45.21 | 0.25 |
| 005262664-06 | OBS | No | 386.021749 | 445.972289 | 79375.7 | 5.327 | 137.9 | 90.3 | 0.65 | 4771 | 17.66 | 0.24 |
| 005262664-07 | OBS | No | 240.211680 | 256.692238 | 1349.8 | 49.443 | 115.3 | 10.0 | 0.65 | 4771 | 3.06 | 0.46 |
| 005262664-08 | OBS | No | 302.205541 | 203.283873 | 19853.1 | 12.000 | 54.9 | -1.0 | 0.65 | 4771 | 8.81 | 0.34 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|---|
| 005262664-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-02 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-07 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-08 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—INCONSISTENT_TRANS—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.

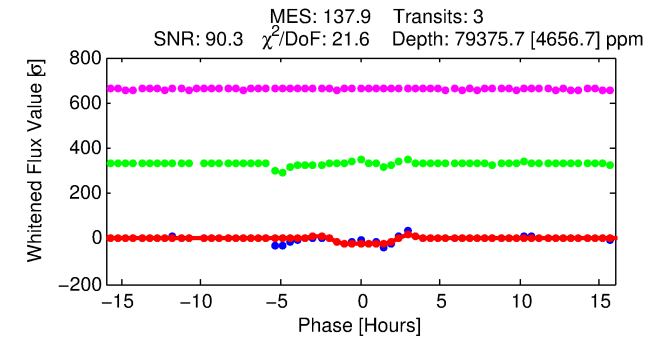
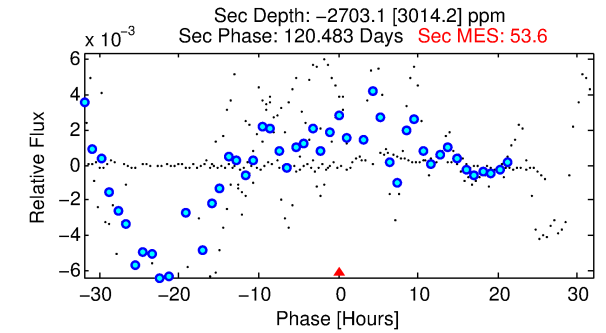
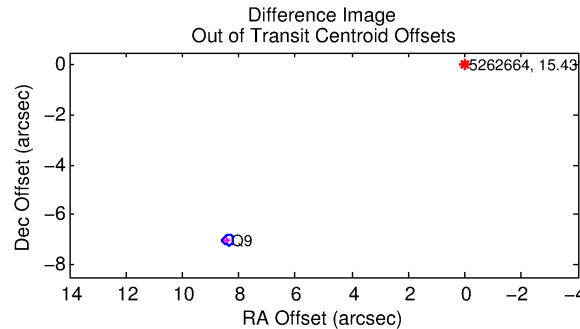
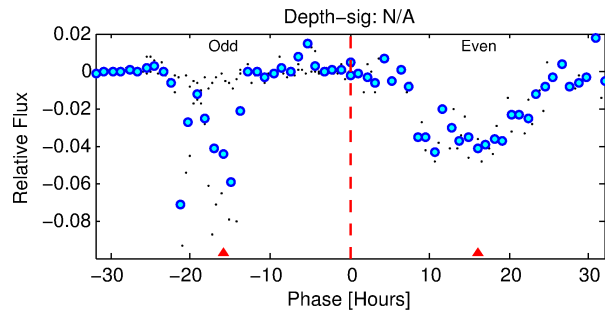
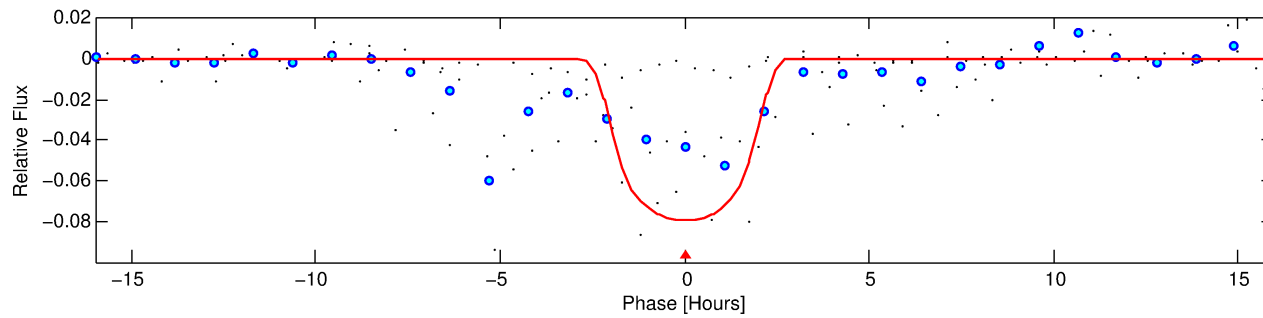
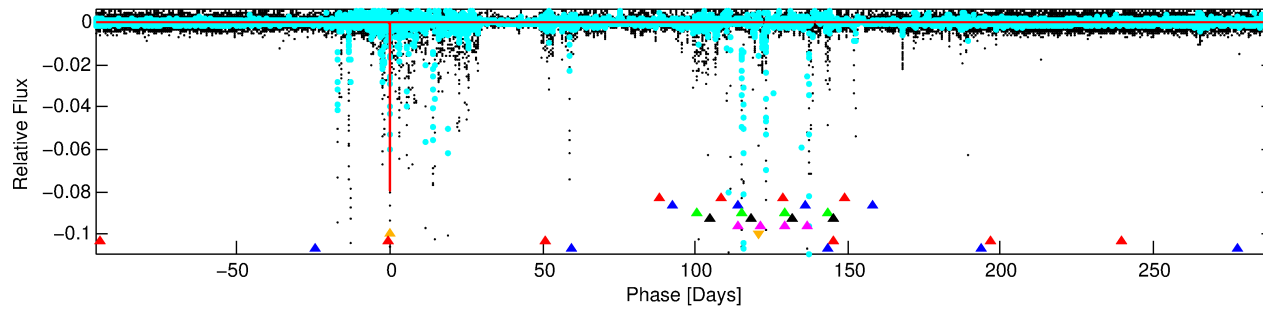
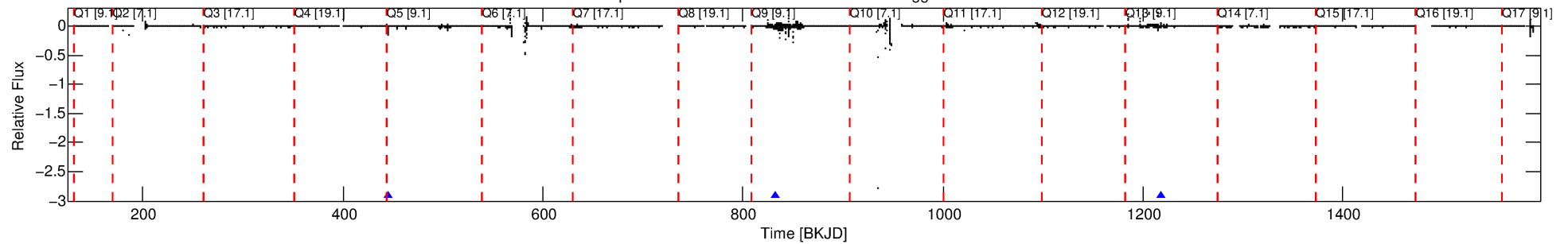
Ephemeris Match Information For 005262664-06

No Significant Match Found

DV One-Page Summary

KIC: 5262664 Candidate: 6 of 8 Period: 386.022 d

Kp: 15.43 R*: 0.65 Rs Teff: 4771.0 K Logg: 4.62 Fe/H: -0.480



DV Fit Results:

Period = 386.02175 [0.00382] d
Epoch = 445.9723 [0.0027] BKJD
Rp/R* = 0.2505 [0.0171]
a/R* = 692.20 [115.33]
b = 0.01 [12.83]
Seff = 0.24 [0.04]
Teq = 179 [7] K
Rp = 17.66 [2.08] Re
a = 0.8897 [0.0678] AU
Ag = N/A
Teffp = N/A

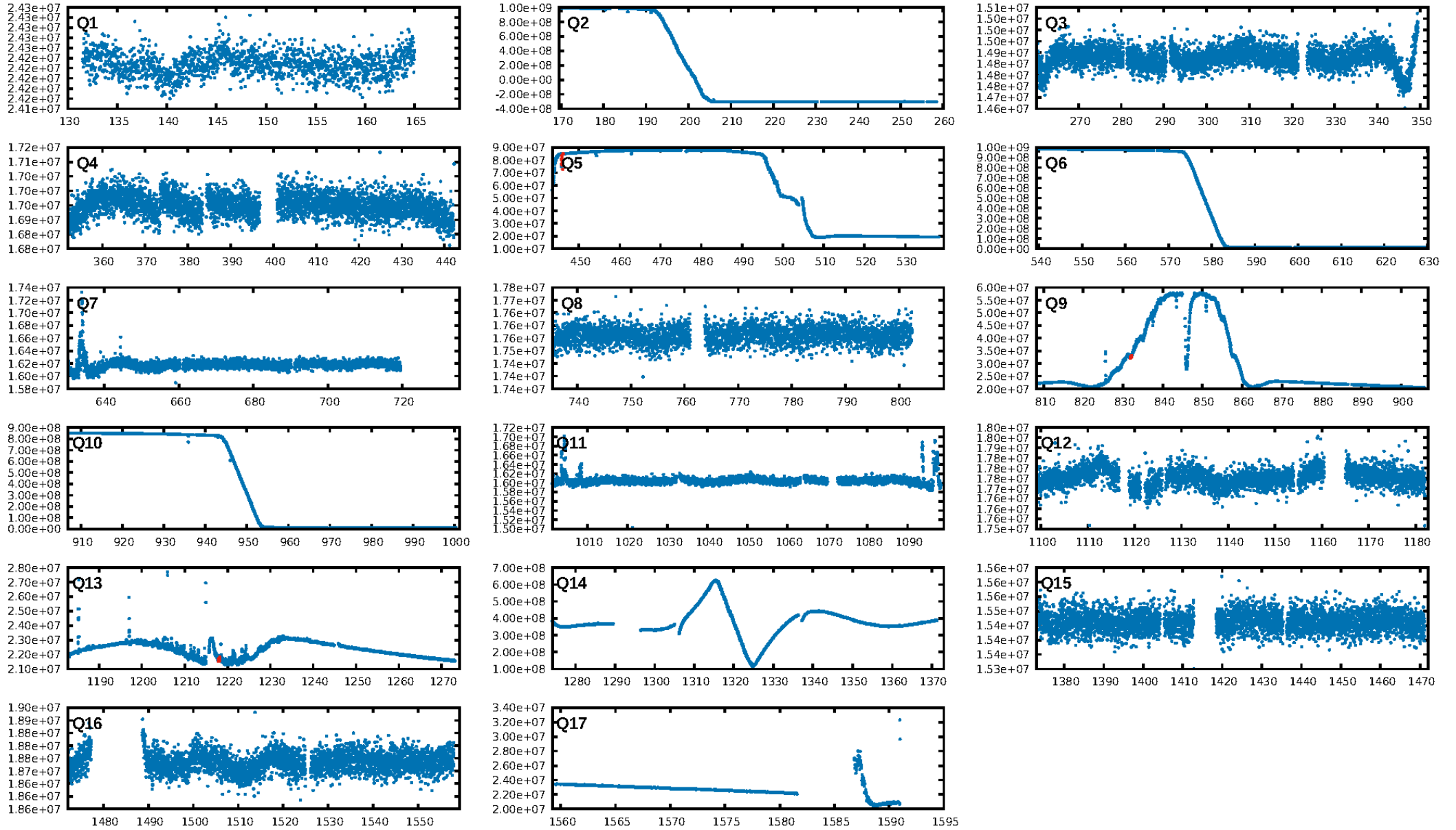
DV Diagnostic Results:

ShortPeriod-sig: 95.3% [1.99σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -1.268
Centroid-sig: N/A
Centroid-so: 1.845 arcsec [3.97σ]
OotOffset-rm: 10.945 arcsec [162.19σ]
KicOffset-rm: 3.531 arcsec [52.55σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [2/2]

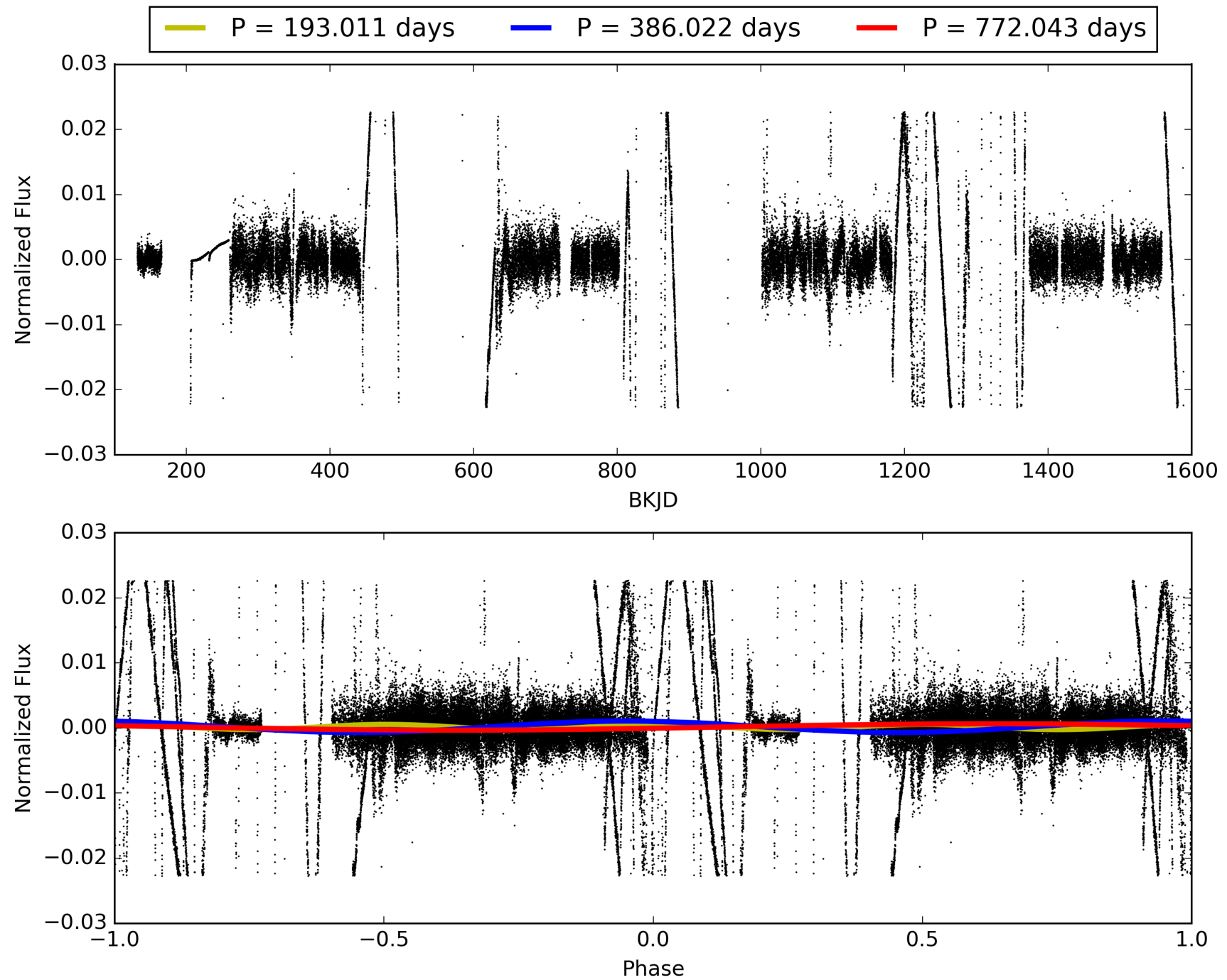
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 01:30:47 Z

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

TCE 005262664-06, PDC Light Curves

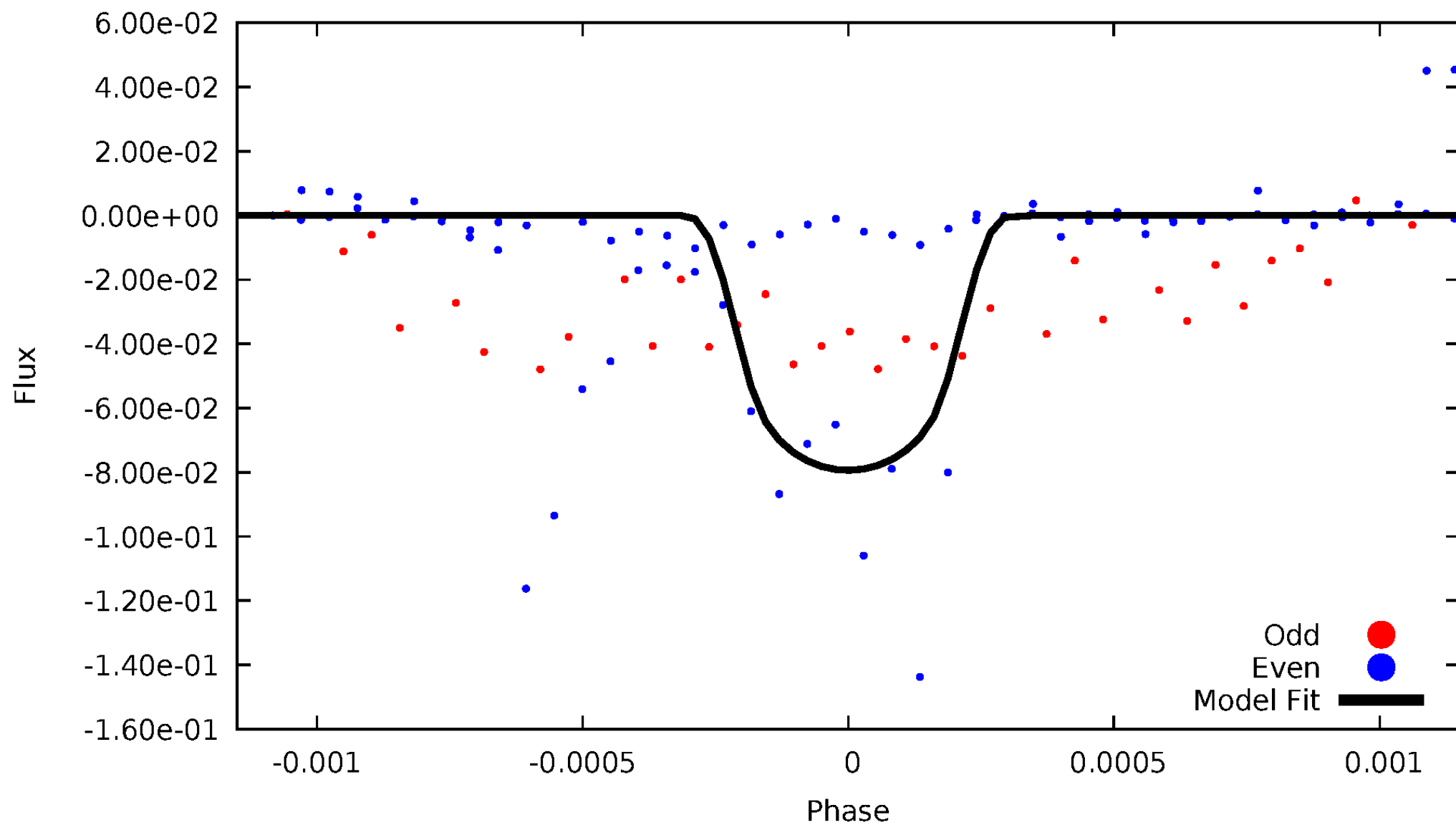


TCE 005262664-06



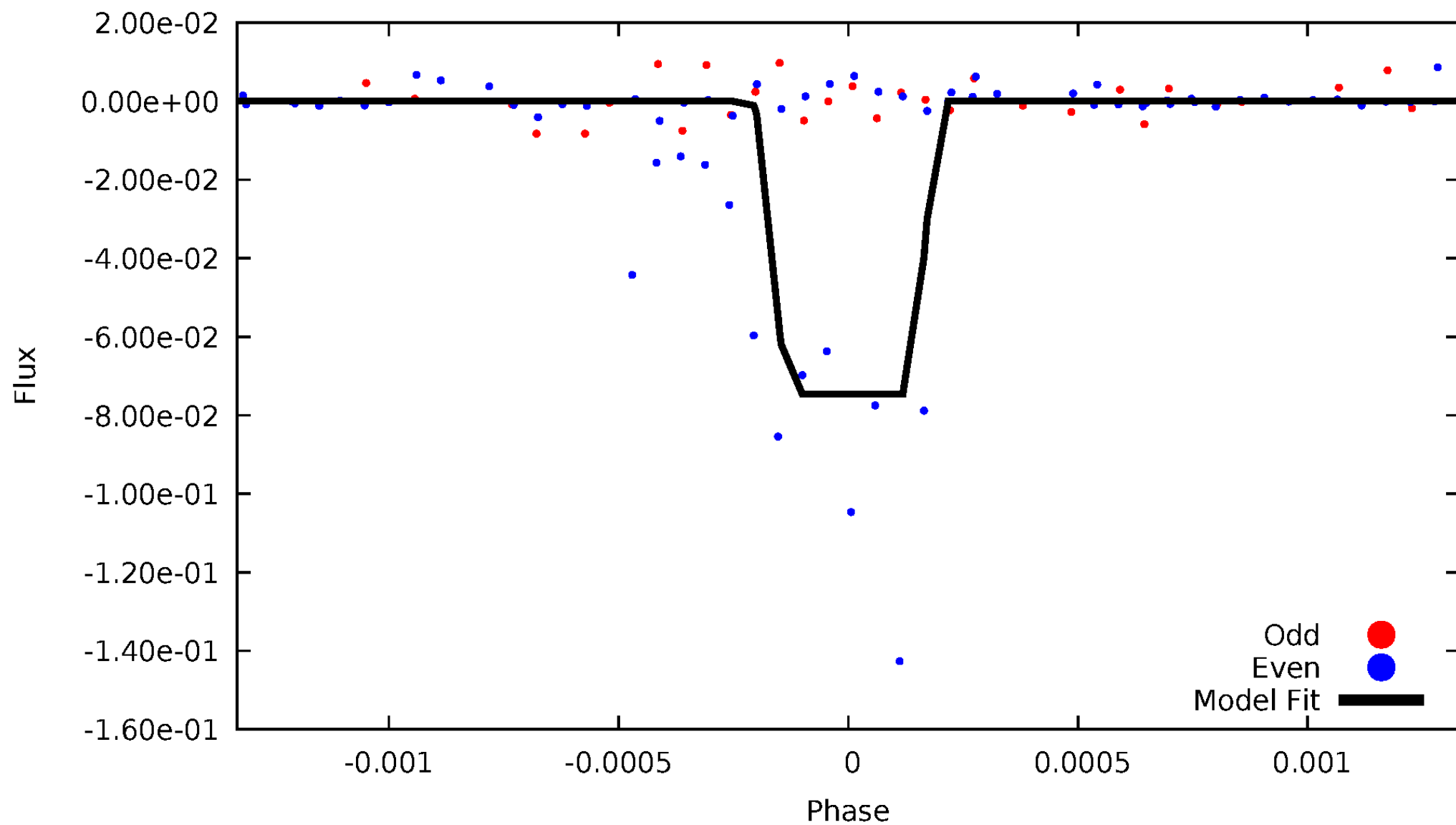
DV Odd/Even

TCE 005262664-06



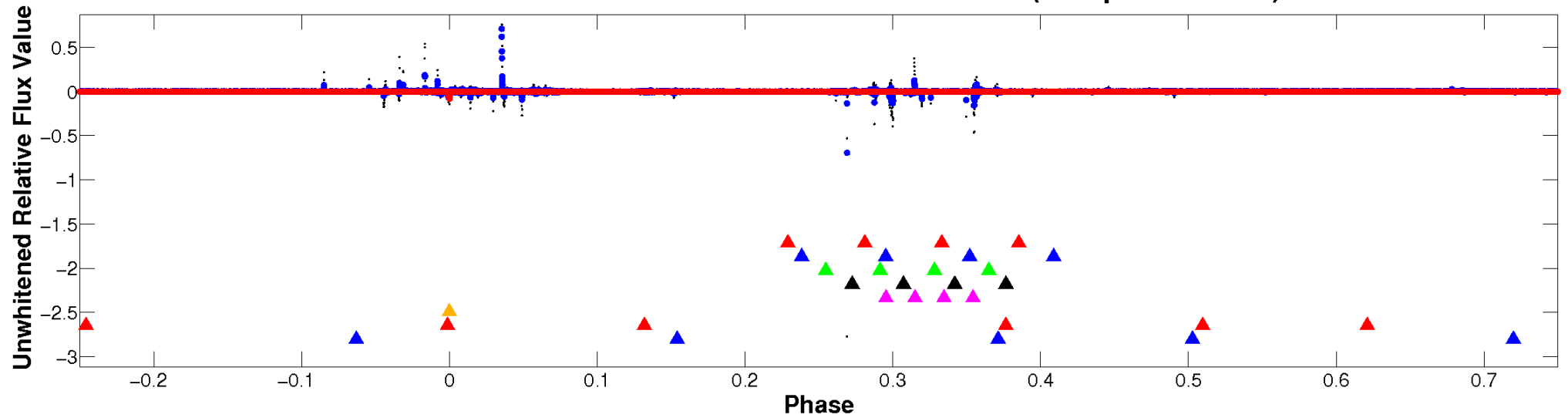
ALT Odd/Even

TCE 005262664-06

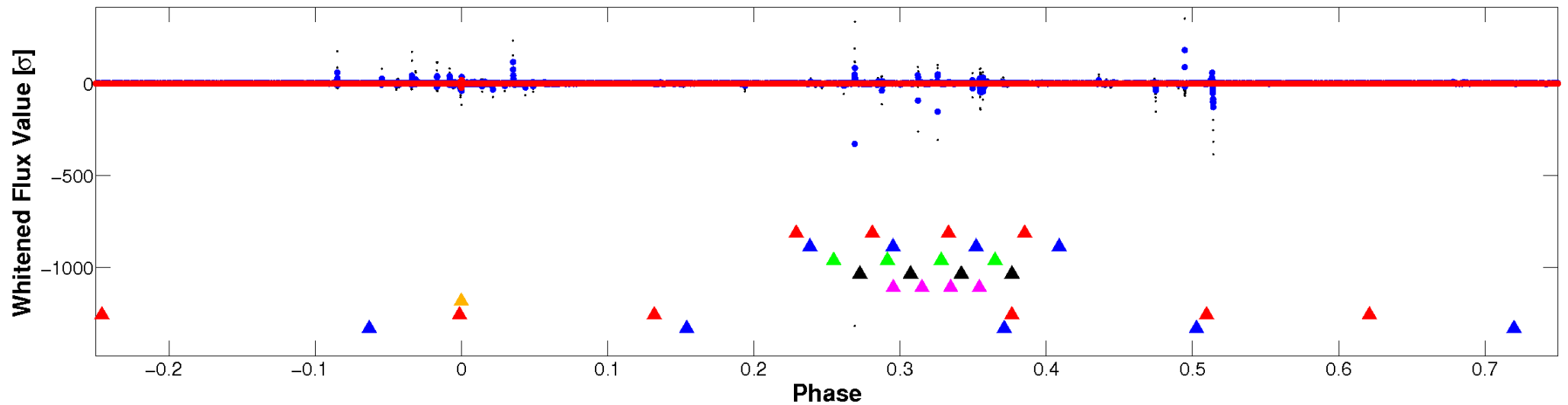


Non-Whitened Vs. Whitened Light Curve

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

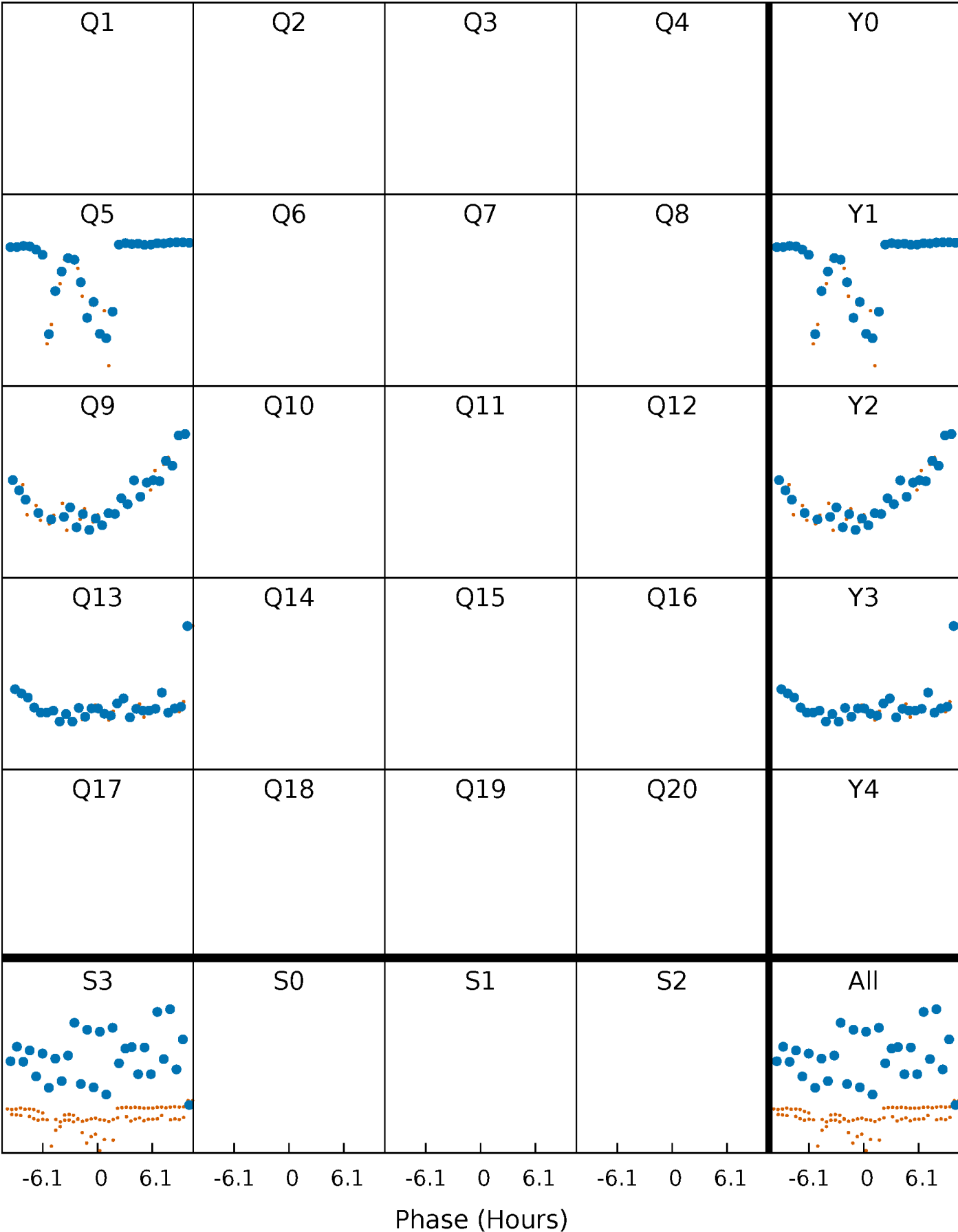


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



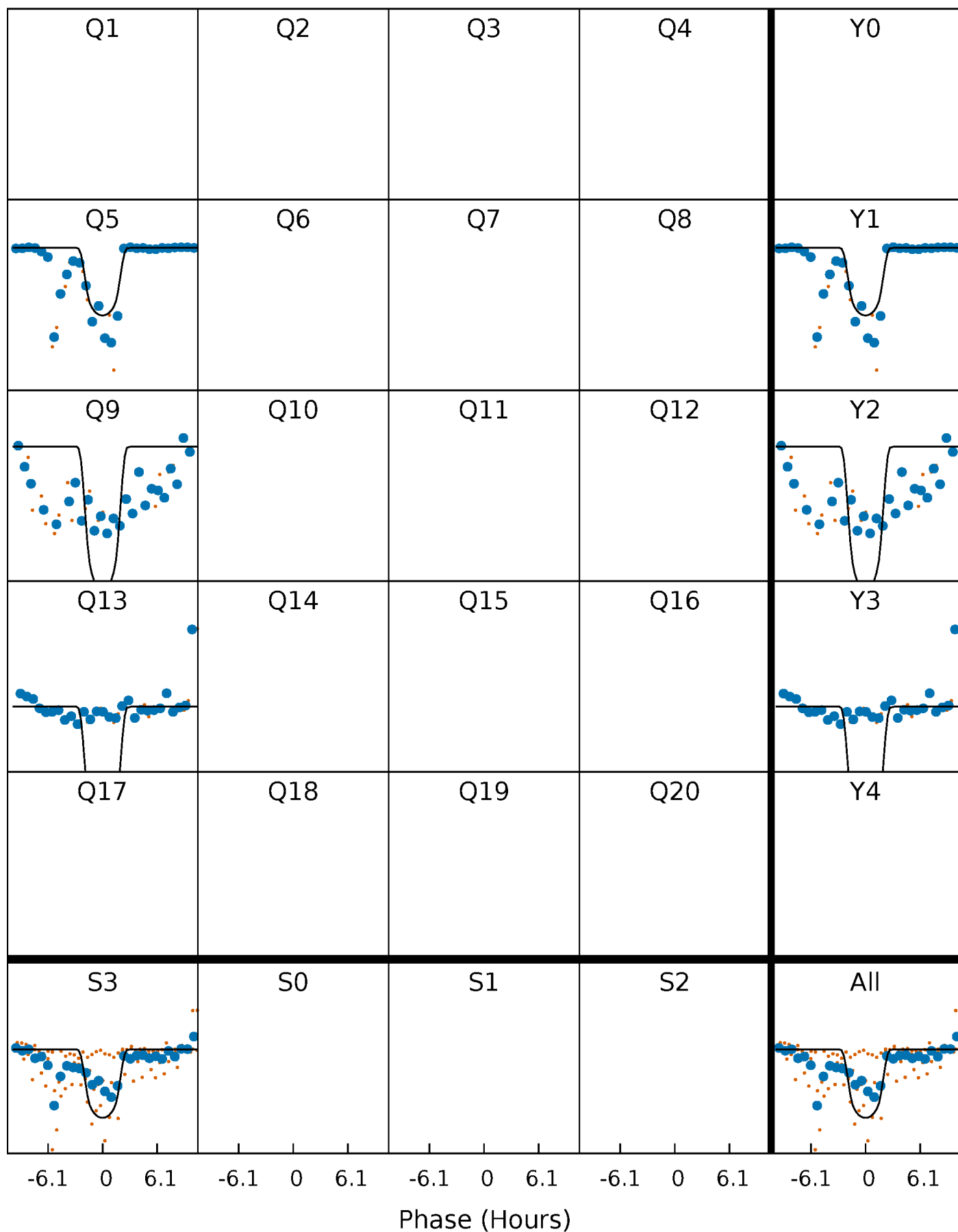
PDC Quarter-Phased Transit Curves

TCE 005262664-06 P=386.021749 Days T₀=445.972289 (BKJD)



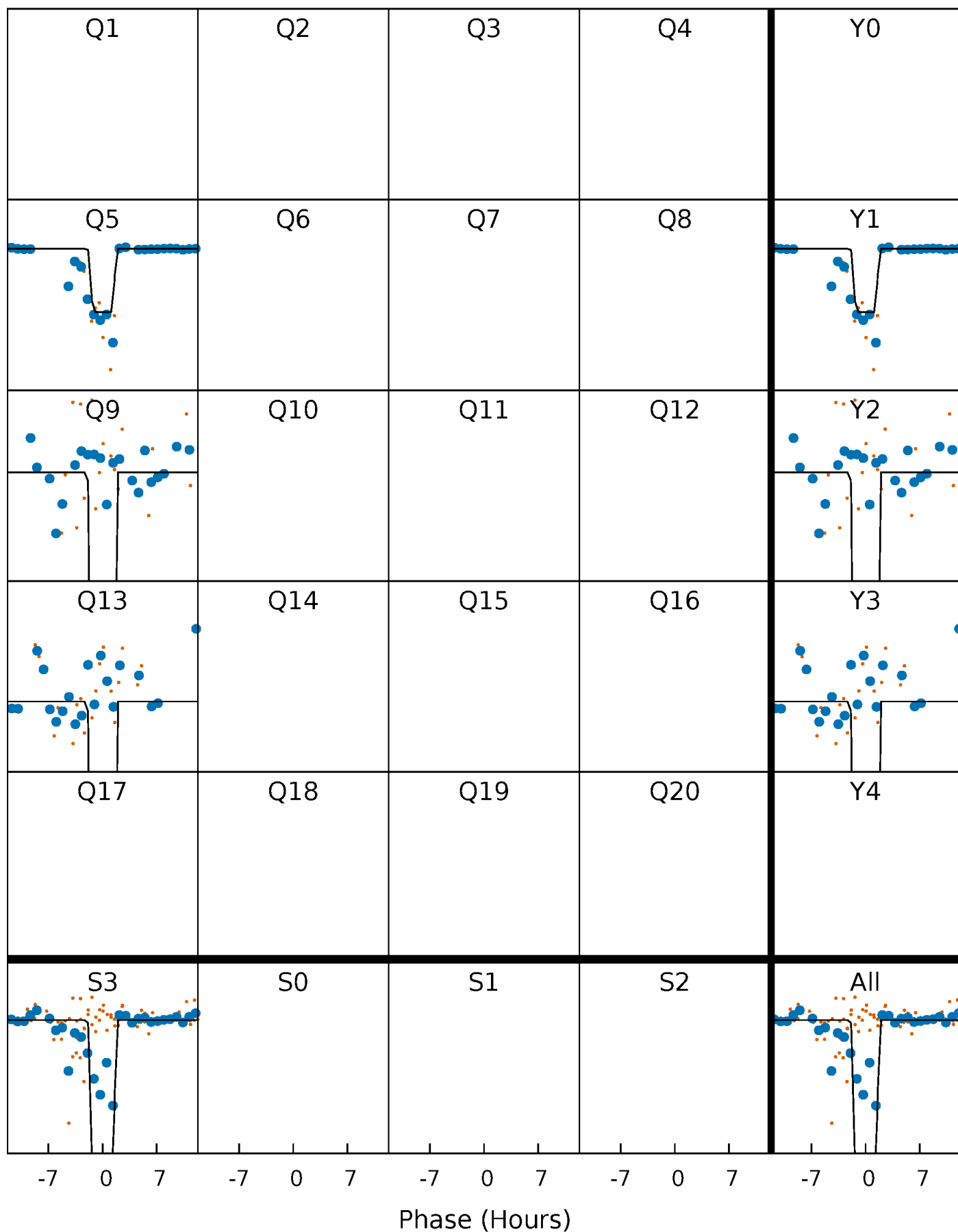
DV Quarter-Phased Transit Curves

TCE 005262664-06 P=386.021749 Days $T_0=445.972289$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

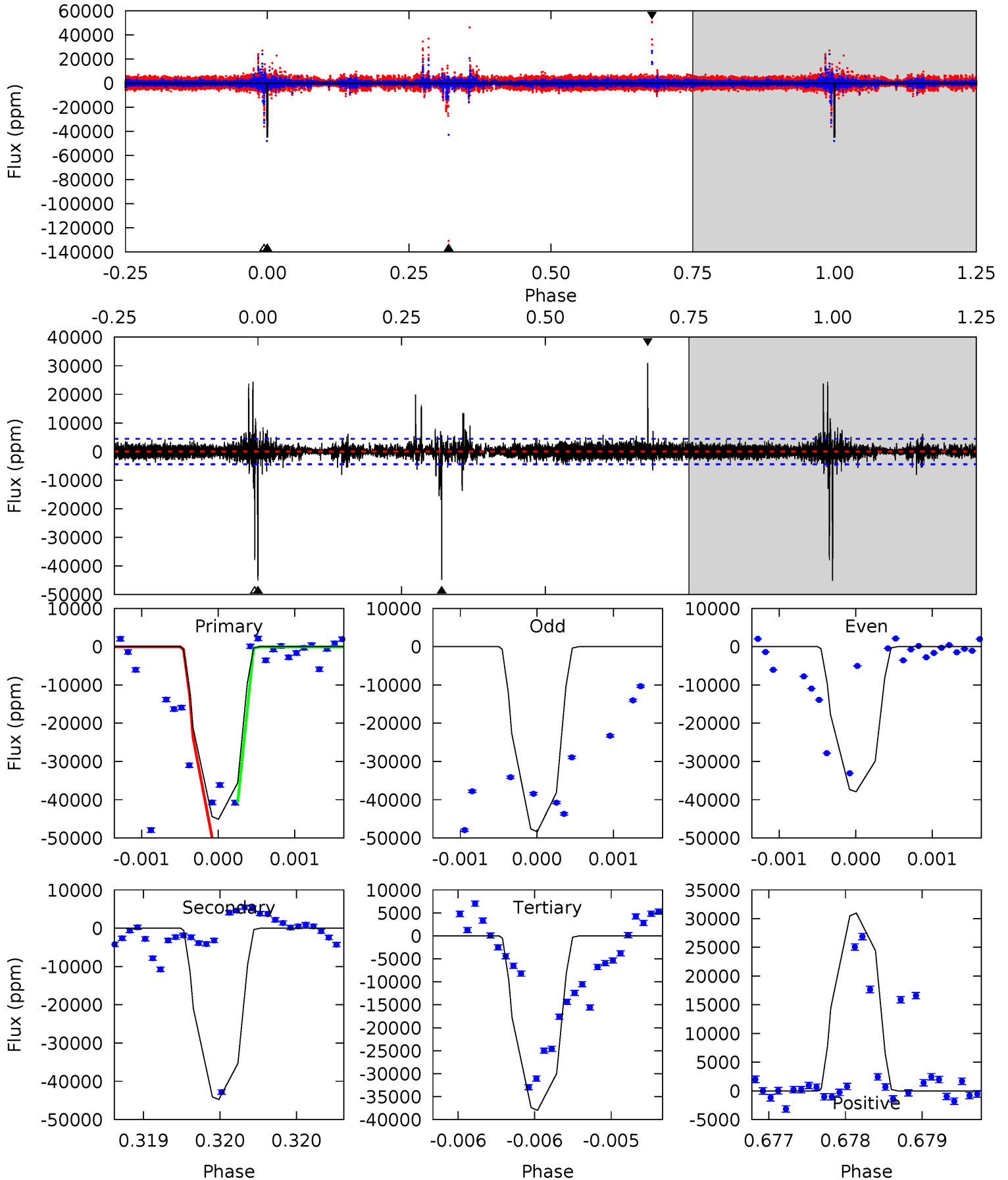
TCE 005262664-06 P=386.010382 Days $T_0=445.981132$ (BKJD)



DV Model-Shift Uniqueness Test

005262664-06, P = 386.021749 Days, E = 59.950540 Days

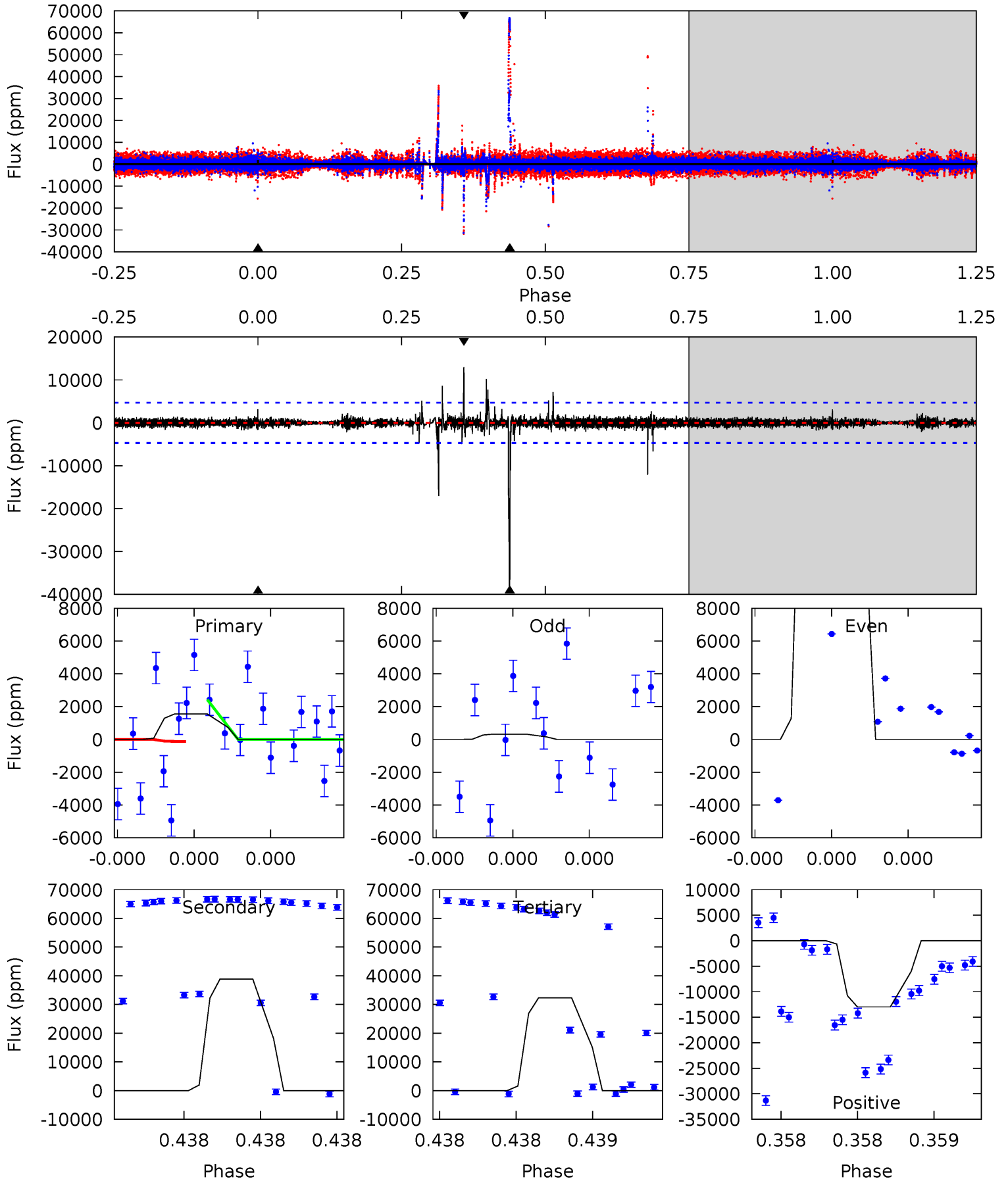
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|-----|
| 56.2 | 55.8 | 47.3 | 38.6 | 5.53 | 3.42 | 1.88 | 8.87 | 17.6 | 8.45 | 17.2 | 3.57 | 1.07 | 0.41 | 0 |



Alt Model-Shift Uniqueness Test

005262664-06, P = 386.010382 Days, E = 59.970750 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|-------|-------|------|
| 1.85 | 46.3 | 38.6 | 15.5 | 5.62 | 3.56 | 1.34 | -36.8 | -13.6 | 7.69 | 30.8 | 1.95 | -38.9 | 0.25 | 0.71 |



Stellar Parameters For KIC 005262664

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | R (R_{\odot}) | $M(M_{\odot})$ | p_{\star} ($\text{g}\cdot\text{cm}^{-3}$) |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 4771^{+142}_{-128} | $4.617^{+0.054}_{-0.031}$ | $-0.480^{+0.300}_{-0.300}$ | $0.646^{+0.062}_{-0.056}$ | $0.630^{+0.082}_{-0.038}$ | $3.293^{+0.797}_{-0.481}$ |
| | +3%/-3% | +1%/-1% | +62%/-62% | +10%/-9% | +13%/-6% | +24%/-15% |
| 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 005262664-06 / KOI

| Detrend | Depth (ppm) | R_p (R_{\oplus}) | T_{max} (K) | T_{obs} (K) | A_{obs} |
|---------|------------------|-------------------------|----------------------|----------------------|--------------------------|
| DV | -44759 ± 803 | $17.61^{+1.52}_{-1.43}$ | 250^{+8}_{-8} | 4513^{+172}_{-173} | 66863^{+11367}_{-9239} |
| Alt. | -38801 ± 838 | $19.17^{+1.56}_{-1.54}$ | 249^{+9}_{-8} | 4238^{+153}_{-138} | 48001^{+8692}_{-6045} |

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

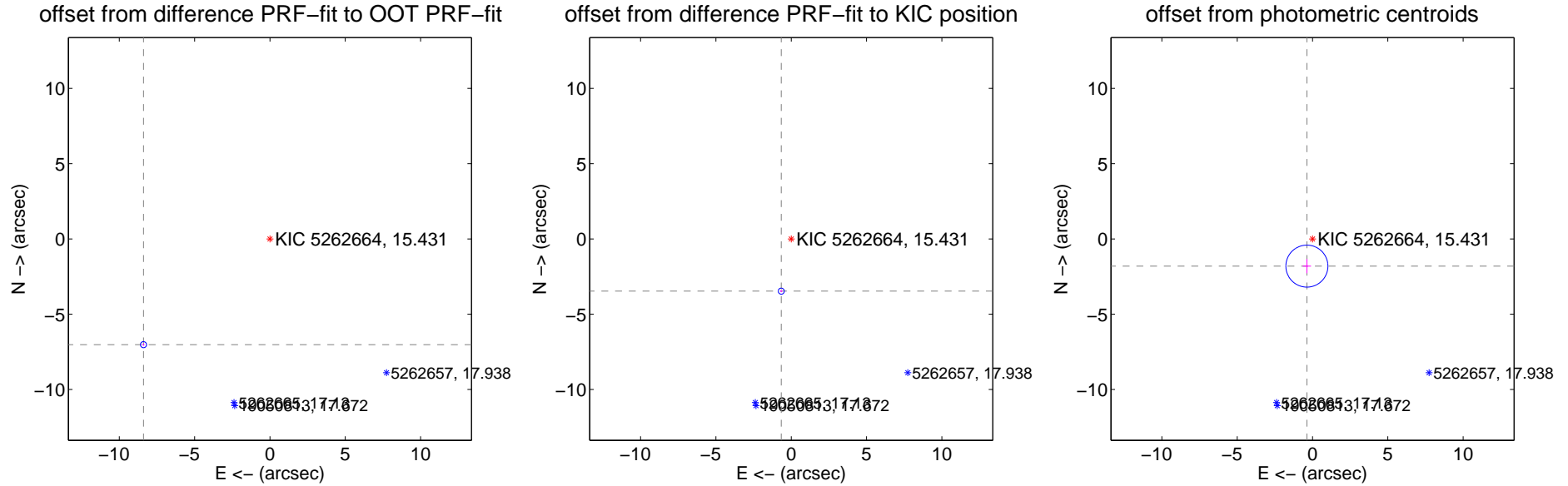
DV Centroid Data

Supplemental centroid analysis for 005262664-06. Kepler magnitude: 15.43. Transit SNR 90.31

There are 1 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 8.51 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

| | Distance in arcsec | Distance / σ | Δ RA | Δ Dec |
|---|--------------------|---------------------|-------------------|--------------------|
| PRF-fit source offset from OOT | 10.945 ± 0.067 | 162.19 | 8.394 ± 0.068 | -7.024 ± 0.067 |
| PRF-fit source offset from KIC position | 3.531 ± 0.067 | 52.55 | 0.660 ± 0.068 | -3.469 ± 0.067 |
| photometric centroid source offset | 1.84 ± 0.46 | 3.97 | 0.37 ± 0.28 | -1.81 ± 0.47 |

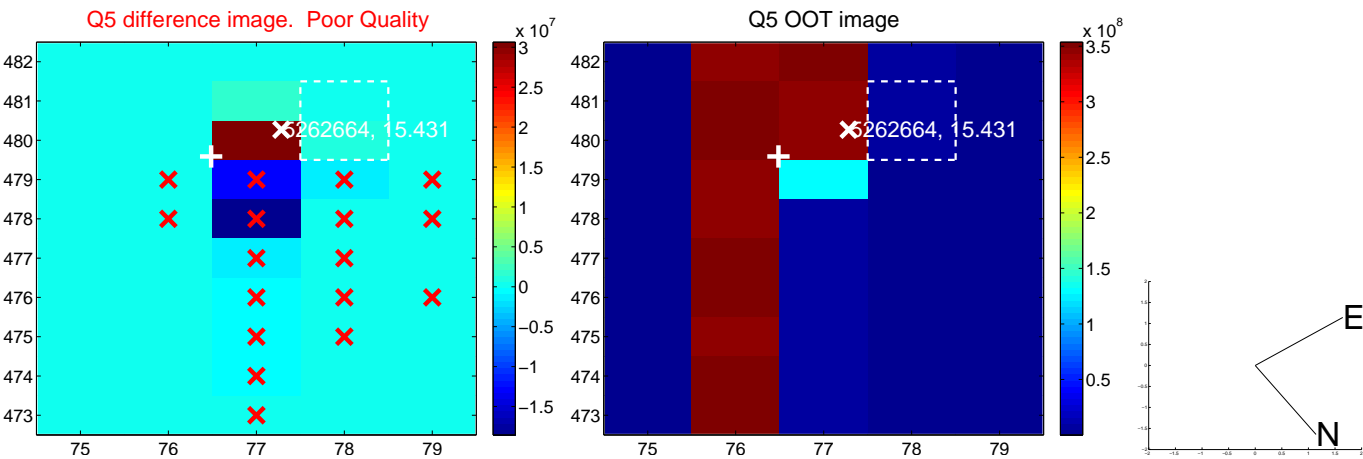


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

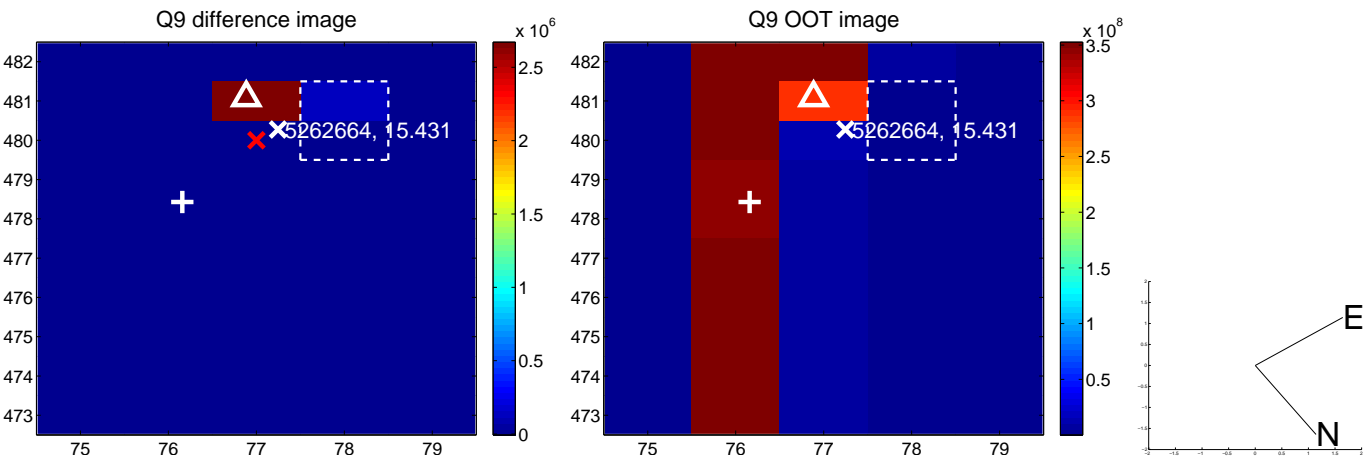
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



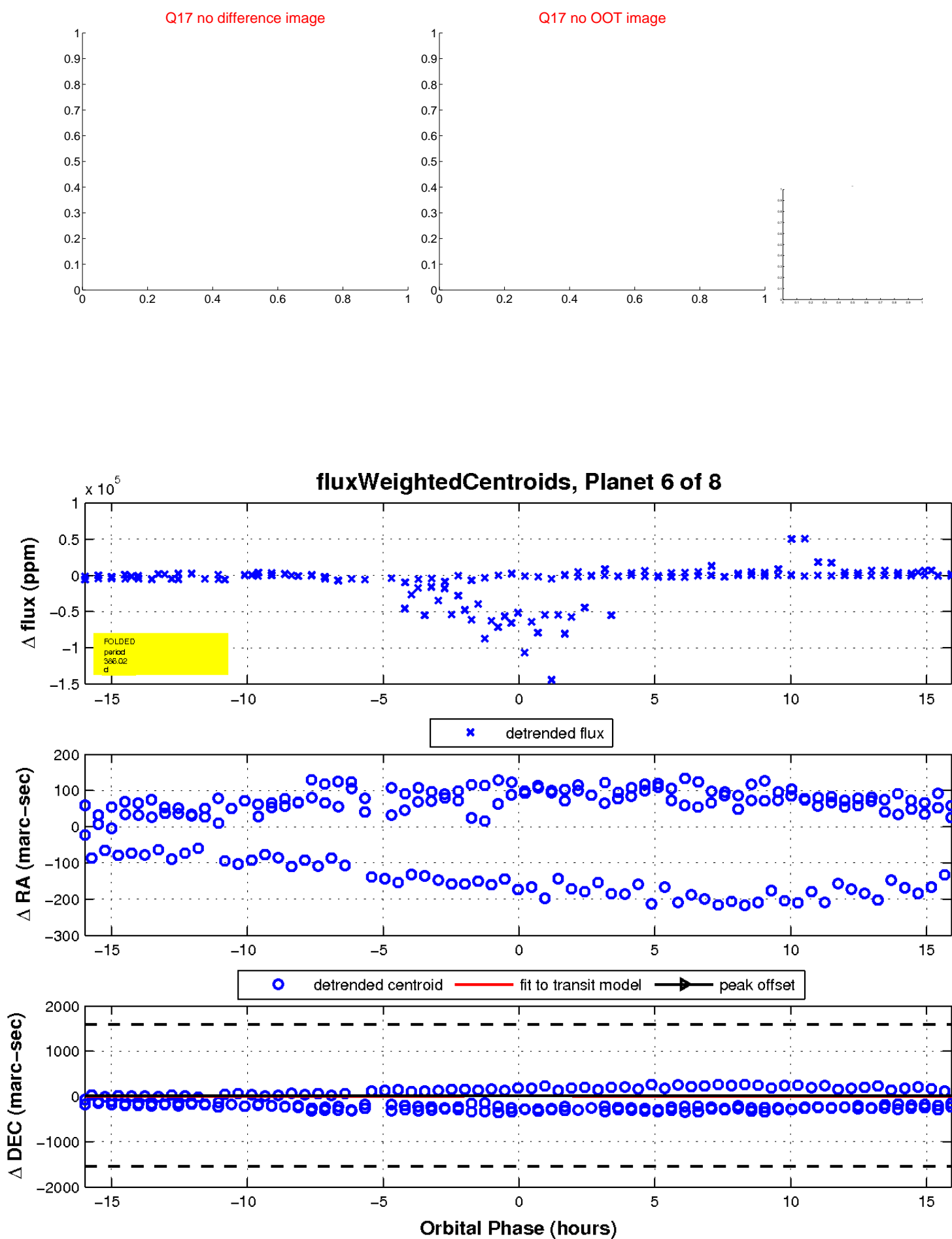
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

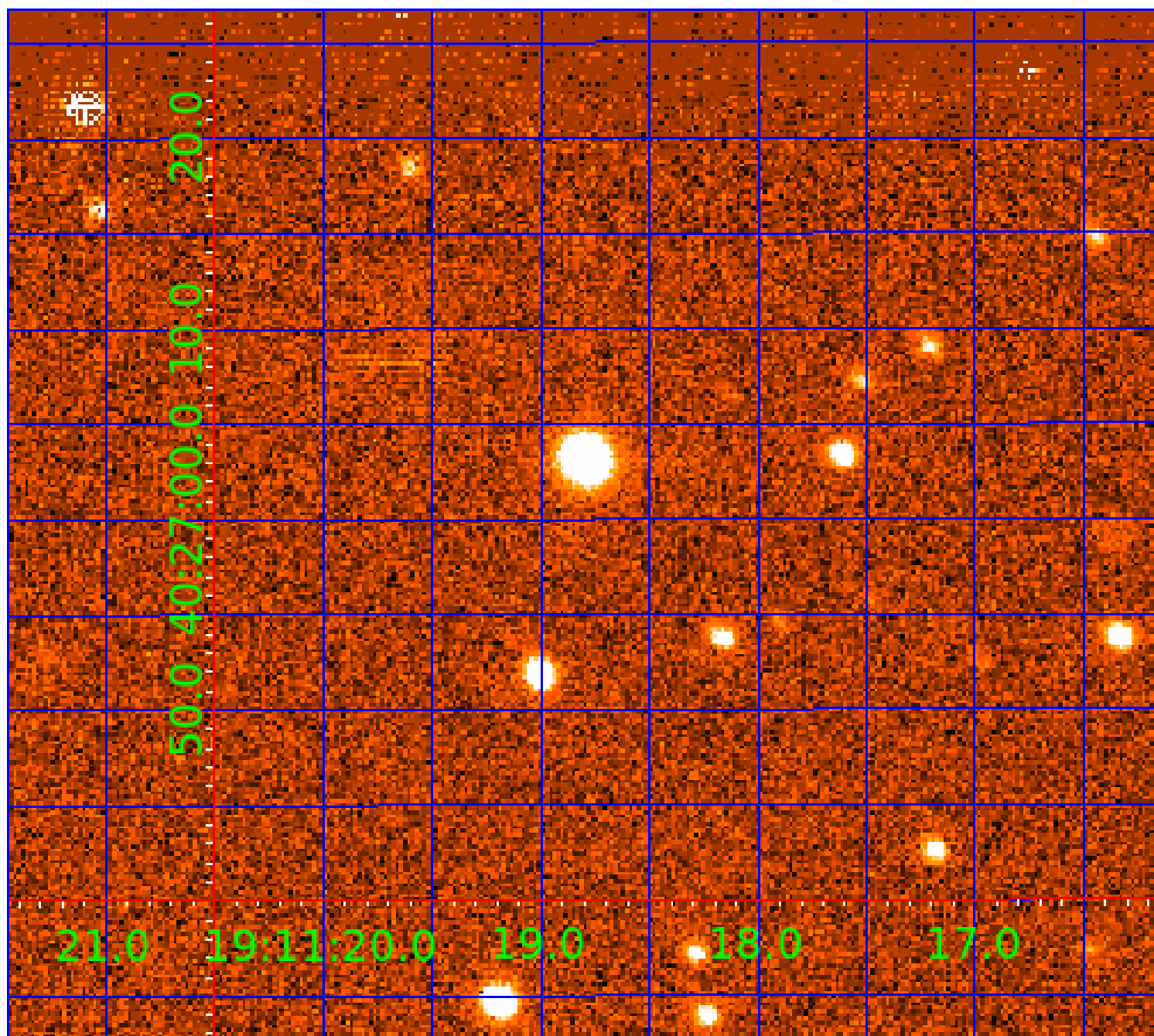


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005262664

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|-------|------|-----------------------------|-----------------|------------------------|------------------------|
| 005262664-01 | OBS | No | 365.920200 | 208.663428 | 78.8 | 2.620 | 188.6 | 1.0 | 0.65 | 4771 | 0.61 | 0.26 |
| 005262664-02 | OBS | No | 364.085172 | 217.788295 | 103607.9 | 15.000 | 273.4 | -1.0 | 0.65 | 4771 | 20.22 | 0.27 |
| 005262664-03 | OBS | No | 371.822680 | 200.842063 | 68946.7 | 15.000 | 217.5 | -1.0 | 0.65 | 4771 | 16.46 | 0.26 |
| 005262664-04 | OBS | No | 372.640023 | 205.317013 | 772566.2 | 15.000 | 204.8 | -1.0 | 0.65 | 4771 | 19.45 | 0.26 |
| 005262664-05 | OBS | No | 378.445434 | 196.712296 | 168223.1 | 91.262 | 142.0 | 32.9 | 0.65 | 4771 | 45.21 | 0.25 |
| 005262664-06 | OBS | No | 386.021749 | 445.972289 | 79375.7 | 5.327 | 137.9 | 90.3 | 0.65 | 4771 | 17.66 | 0.24 |
| 005262664-07 | OBS | No | 240.211680 | 256.692238 | 1349.8 | 49.443 | 115.3 | 10.0 | 0.65 | 4771 | 3.06 | 0.46 |
| 005262664-08 | OBS | No | 302.205541 | 203.283873 | 19853.1 | 12.000 | 54.9 | -1.0 | 0.65 | 4771 | 8.81 | 0.34 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|---|
| 005262664-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-02 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-07 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-08 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—INCONSISTENT_TRANS—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.

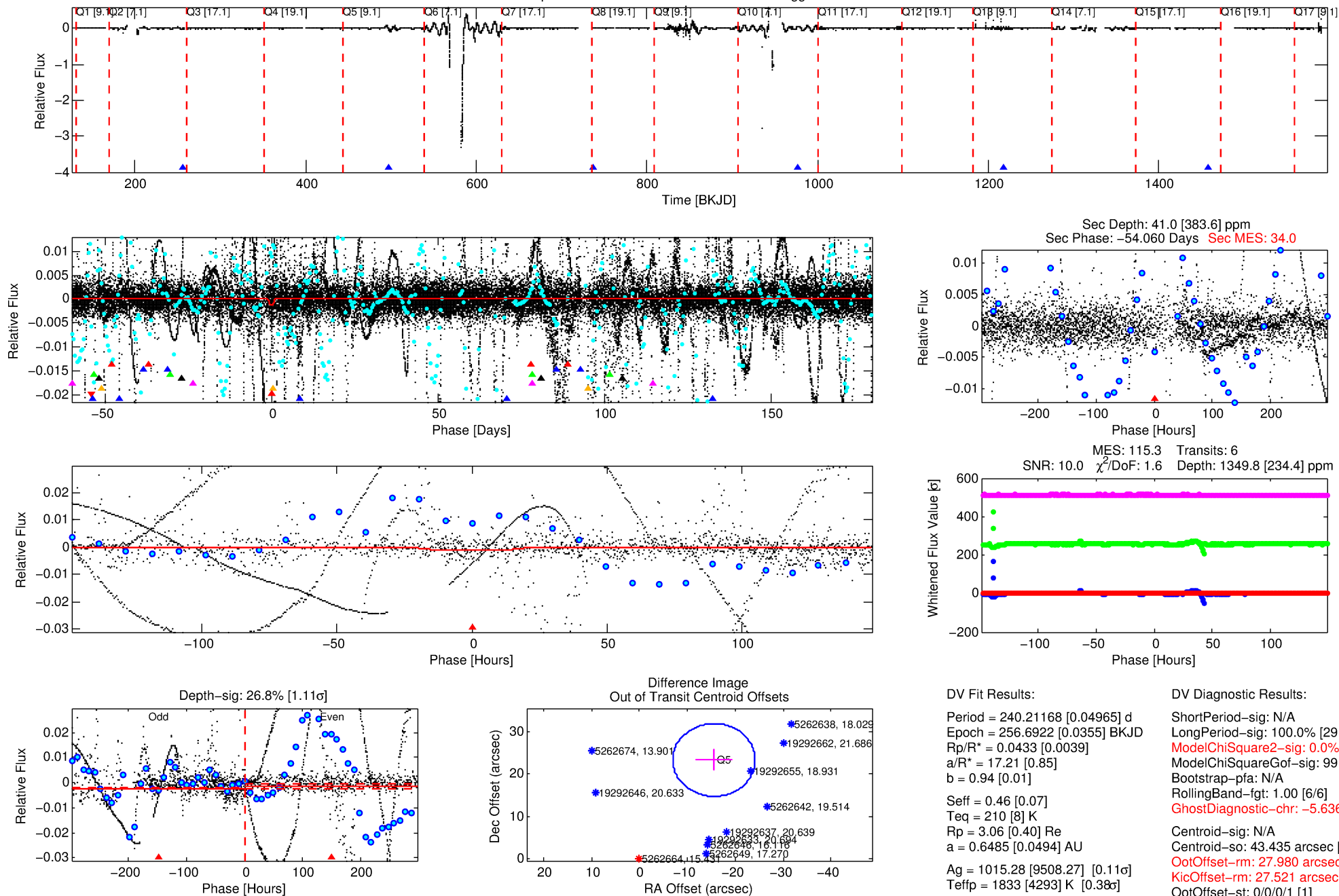
Ephemeris Match Information For 005262664-07

No Significant Match Found

DV One-Page Summary

KIC: 5262664 Candidate: 7 of 8 Period: 240.212 d

Kp: 15.43 R*: 0.65 Rs Teff: 4771.0 K Logg: 4.62 Fe/H: -0.480



DV Fit Results:

Period = 240.21168 [0.04965] d
Epoch = 256.6922 [0.0355] BKJD
Rp/R* = 0.0433 [0.0039]
a/R* = 17.21 [0.85]
b = 0.94 [0.01]
Seff = 0.46 [0.07]
Teq = 210 [8] K
Rp = 3.06 [0.40] Re
a = 0.6485 [0.0494] AU
Ag = 1015.28 [9508.27] [0.11 σ]
Teffp = 1833 [4293] K [0.38 σ]

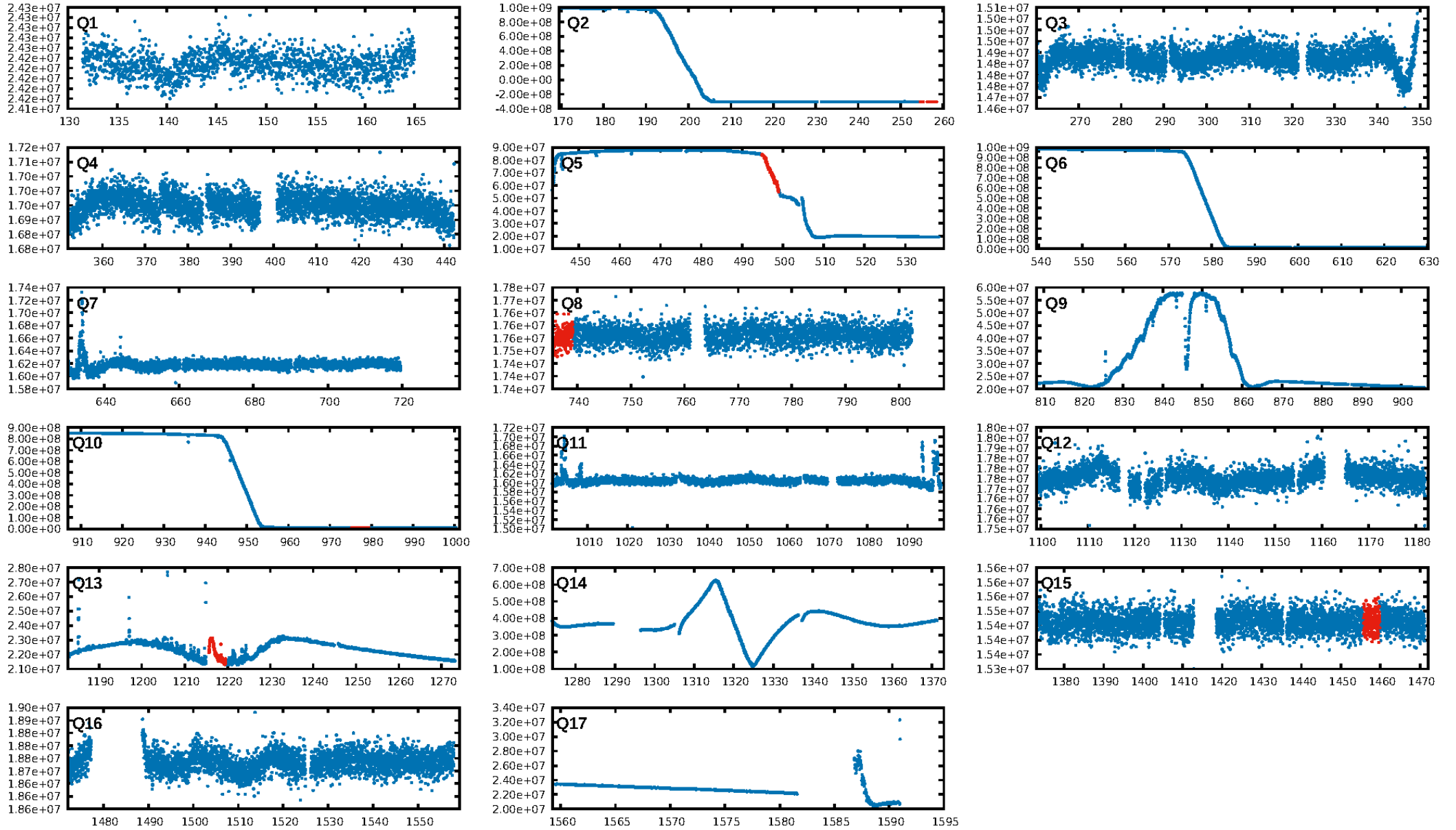
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [29.24 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 99.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: -5.636
Centroid-sig: N/A
Centroid-so: 43.435 arcsec [1.07 σ]
OotOffset-rm: 27.980 arcsec [9.77 σ]
KicOffset-rm: 27.521 arcsec [9.21 σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [3/3]

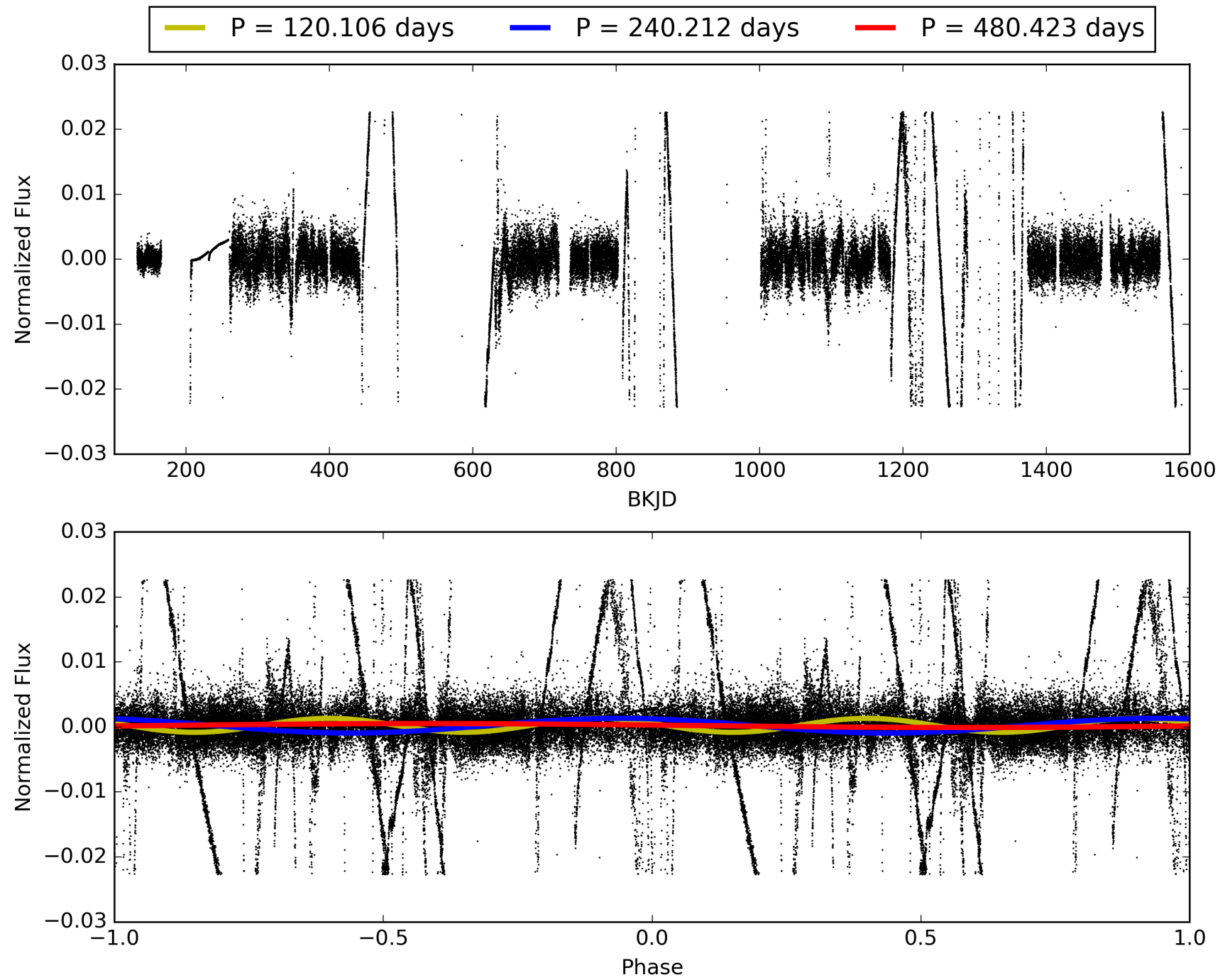
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 01:30:53 Z

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

TCE 005262664-07, PDC Light Curves

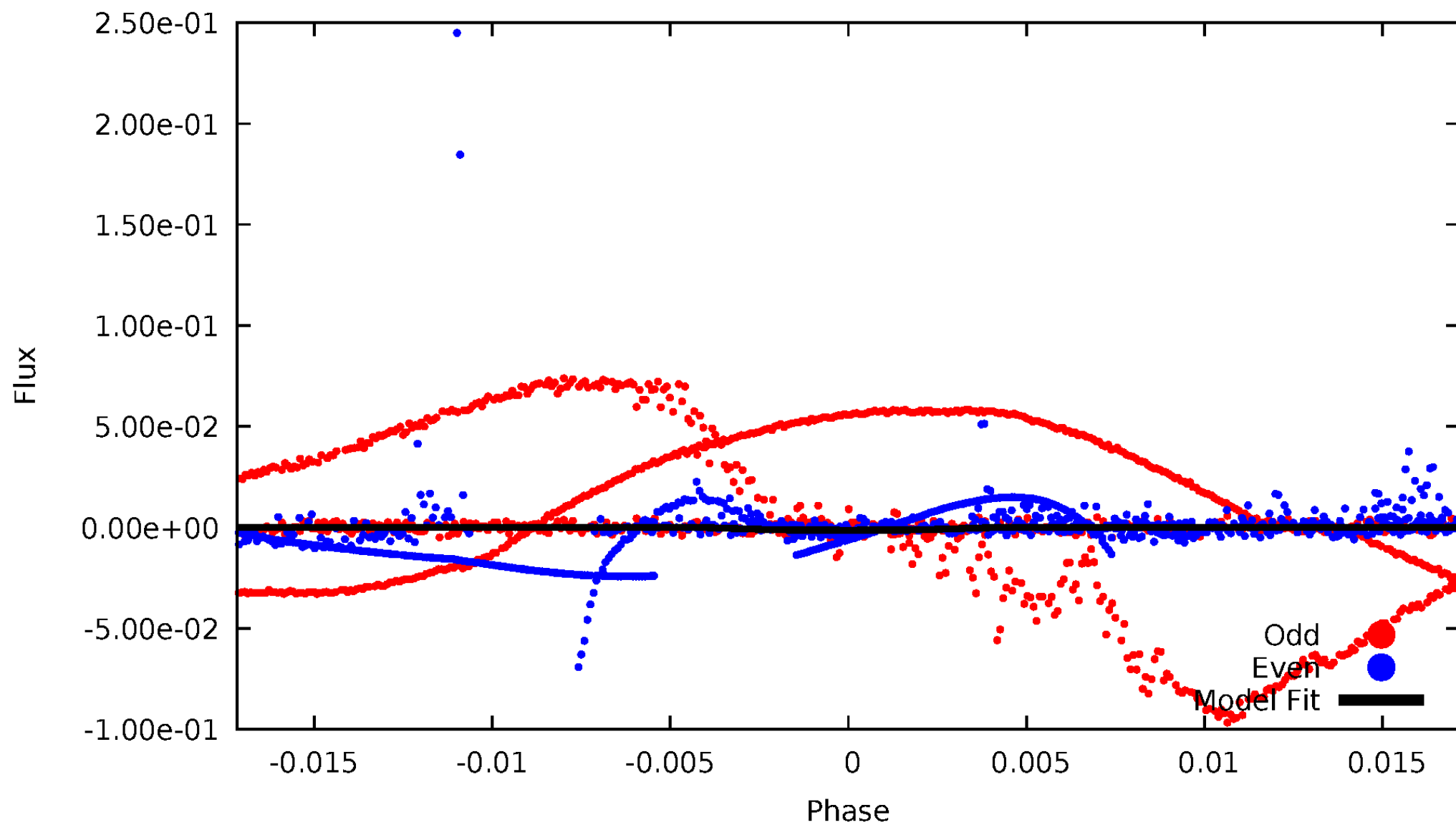


TCE 005262664-07



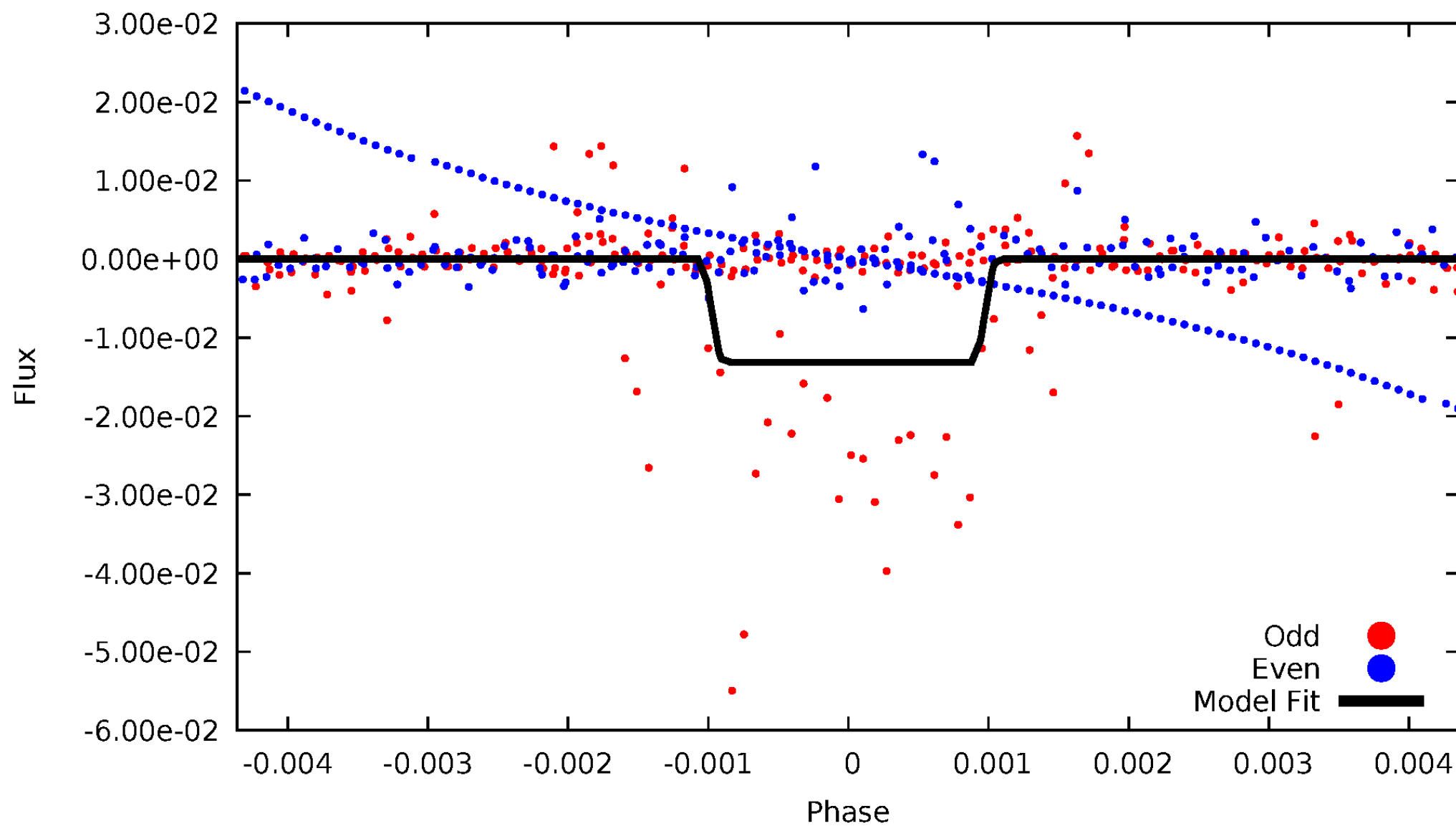
DV Odd/Even

TCE 005262664-07



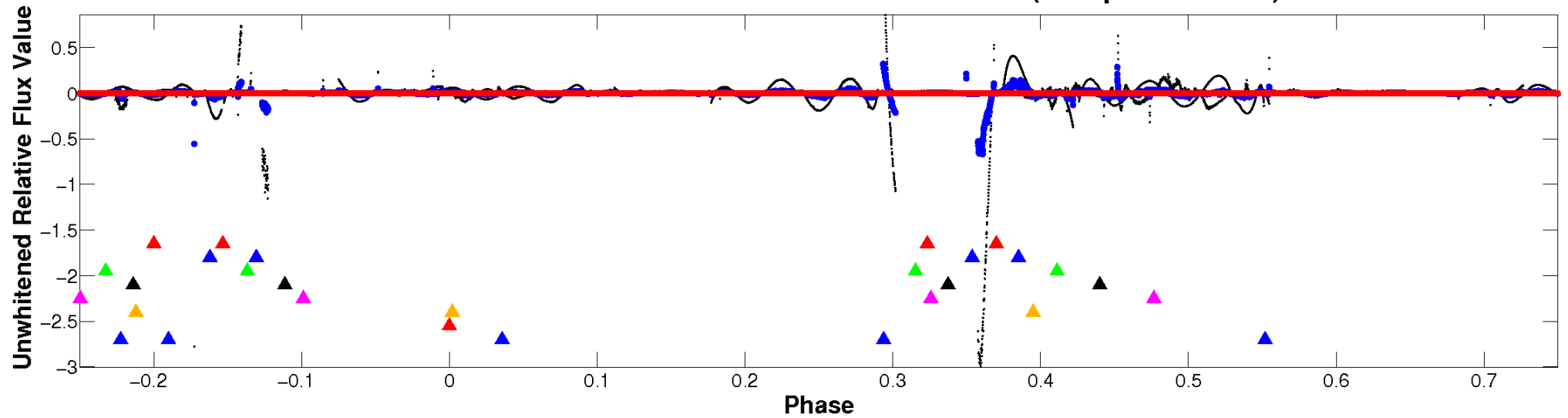
ALT Odd/Even

TCE 005262664-07

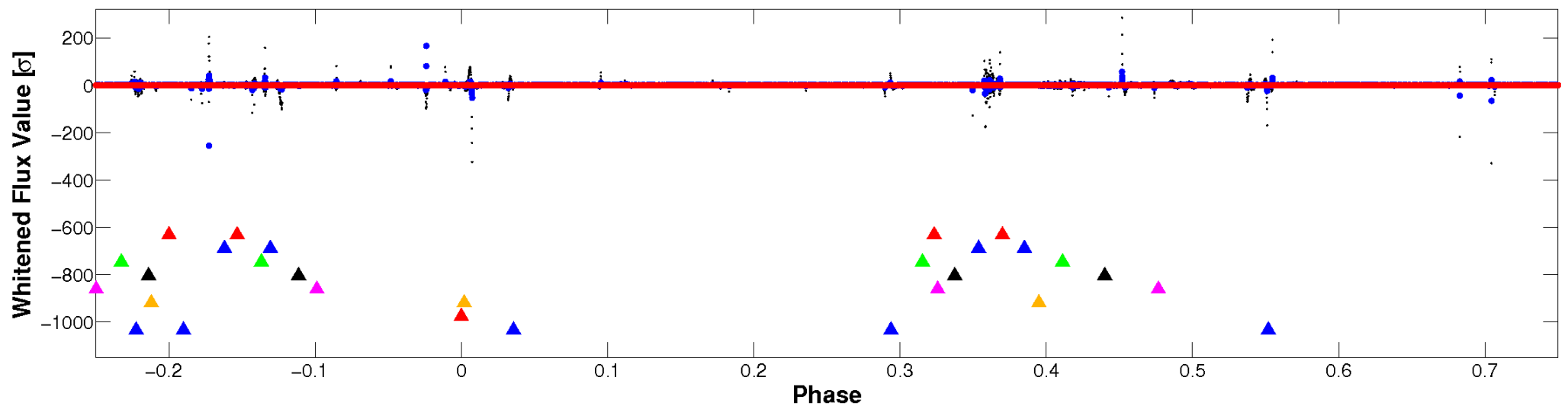


Non-Whitened Vs. Whitened Light Curve

Planet 7 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

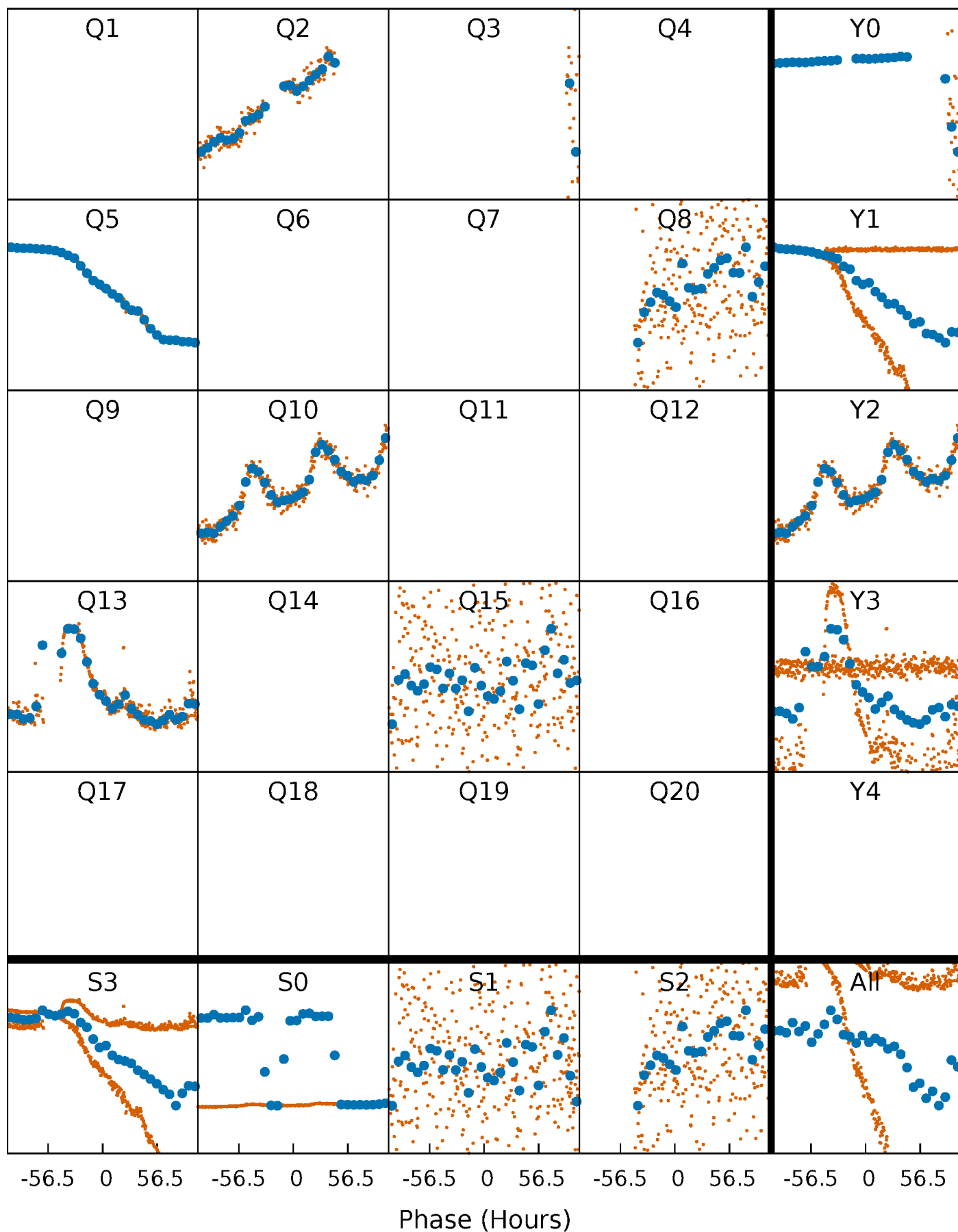


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 005262664-07 P=240.211680 Days $T_0=256.692238$ (BKJD)



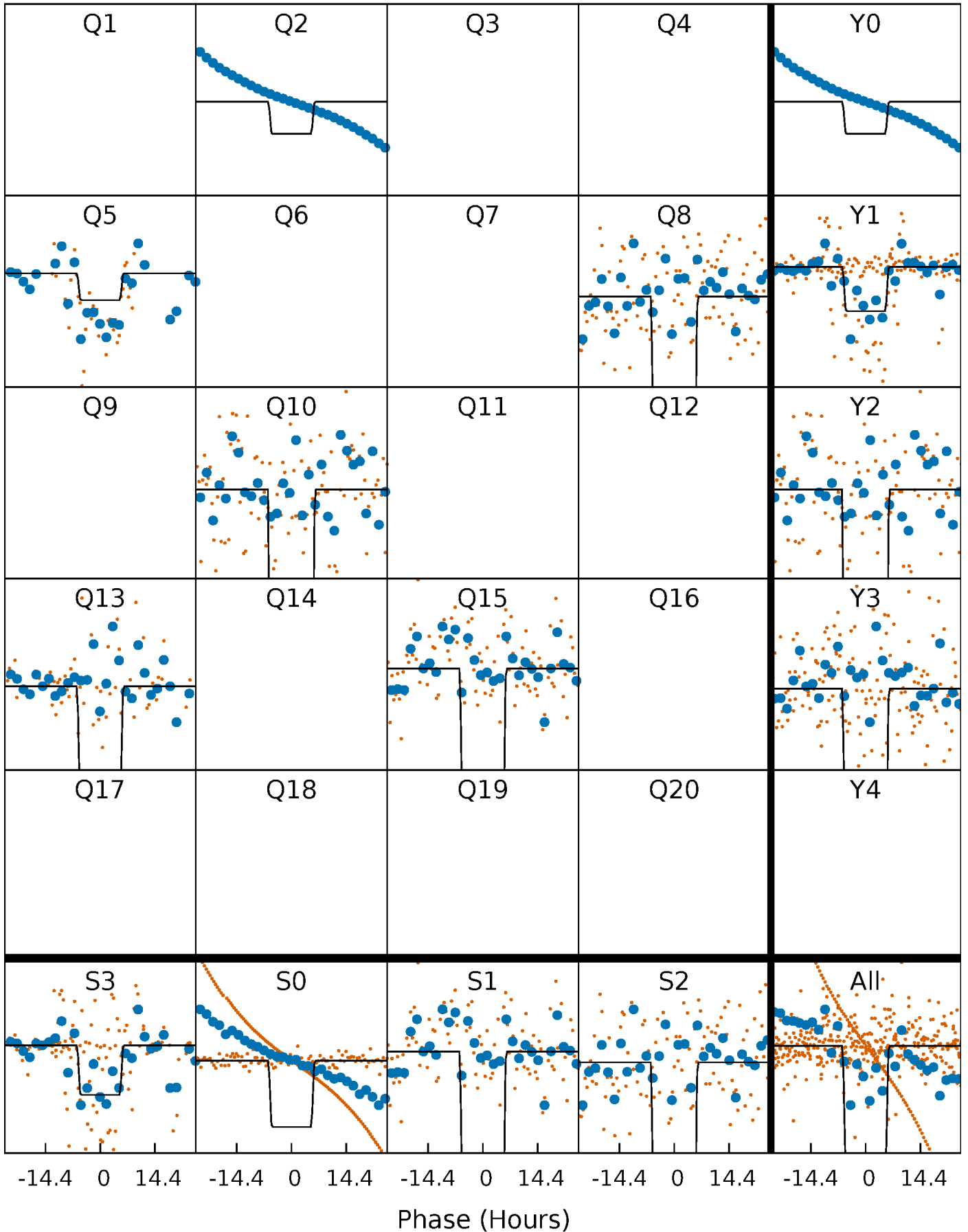
DV Quarter-Phased Transit Curves

TCE 005262664-07 P=240.211680 Days $T_0=256.692238$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

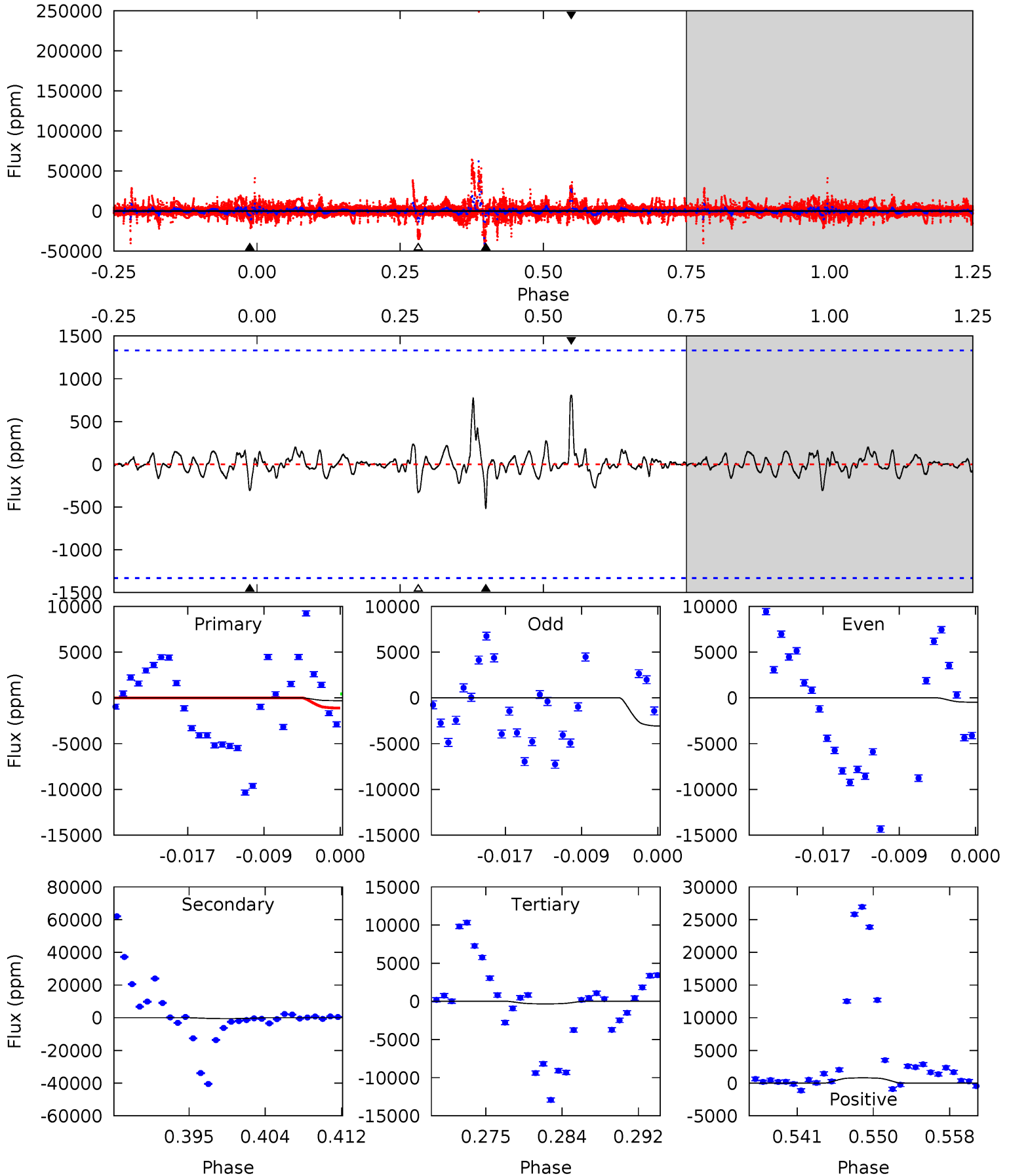
TCE 005262664-07 $P=240.727770$ Days $T_0=257.379308$ (BKJD)



DV Model-Shift Uniqueness Test

005262664-07, P = 240.211680 Days, E = 16.480558 Days

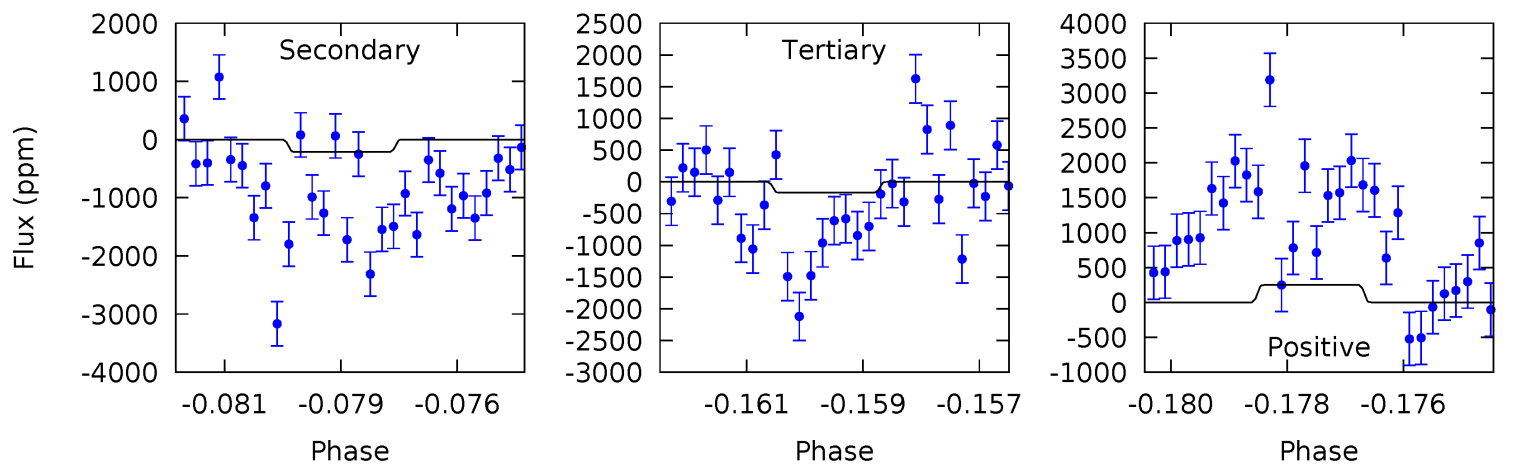
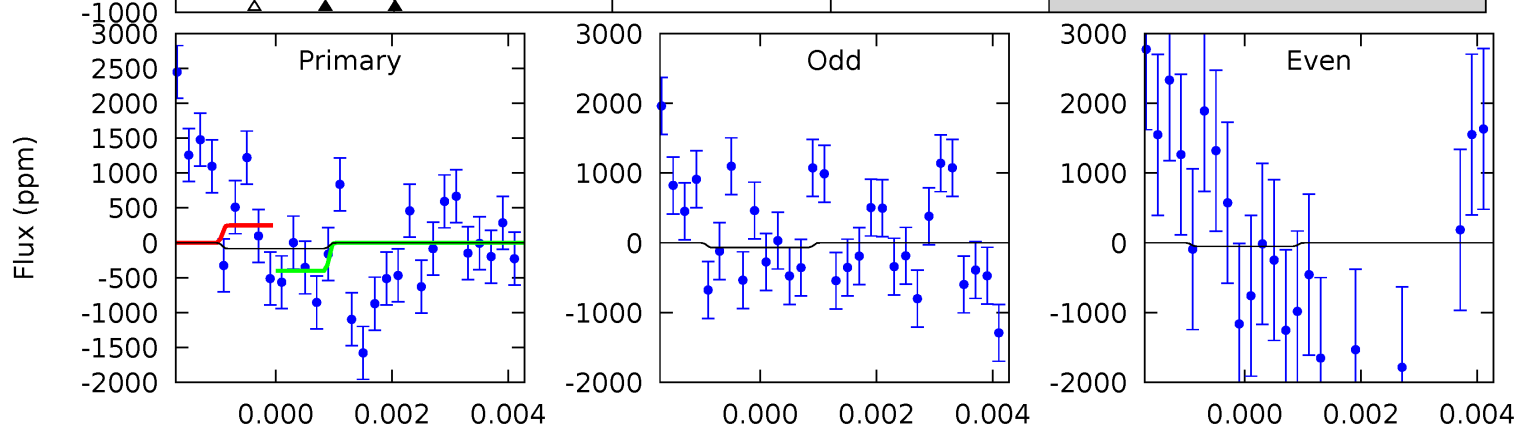
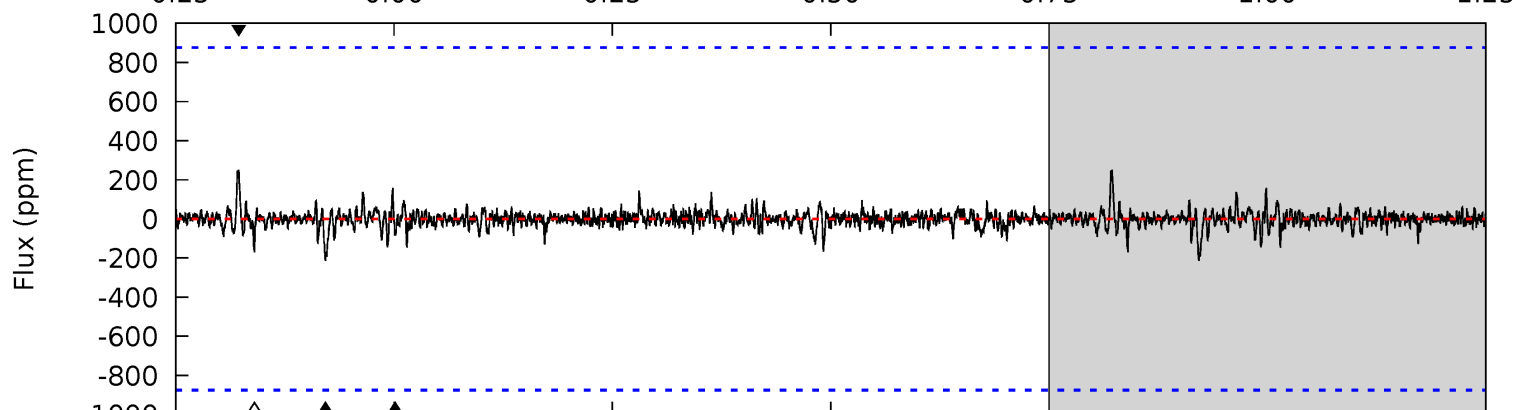
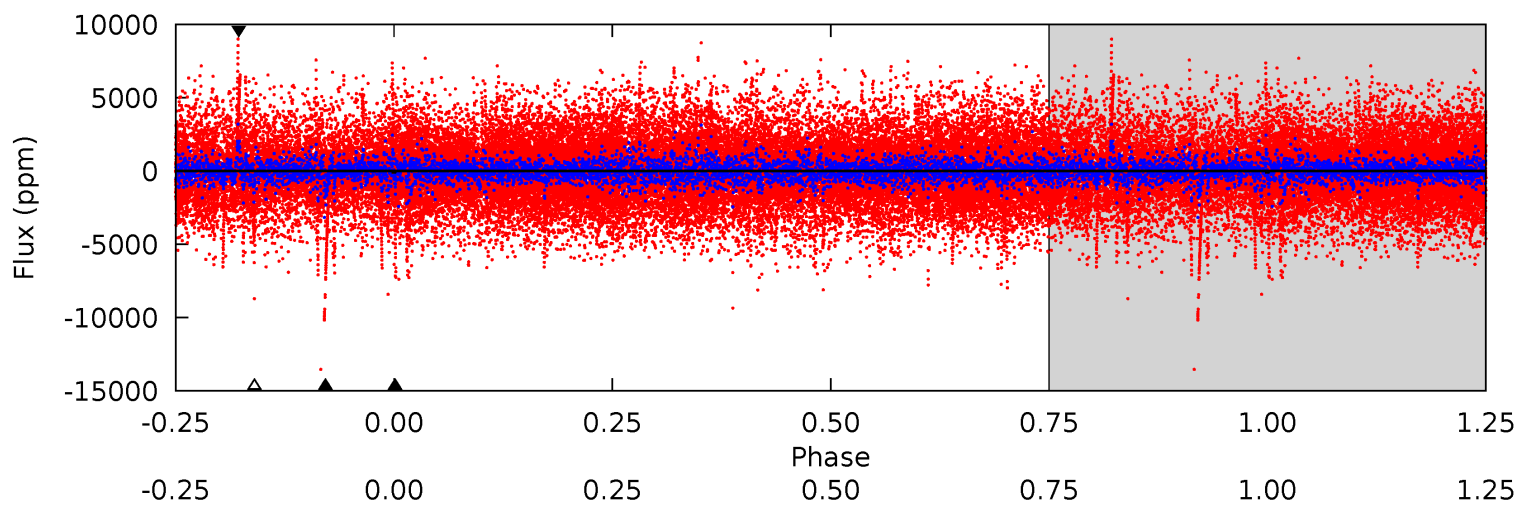
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 1.17 | 1.96 | 1.24 | 3.07 | 5.06 | 2.63 | 0.44 | -0.07 | -1.90 | 0.73 | -1.10 | 0.48 | 28.4 | 0.61 | 1.37 |



Alt Model-Shift Uniqueness Test

005262664-07, P = 240.727770 Days, E = 16.651538 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|-------|-------|------|
| 0.51 | 1.30 | 1.03 | 1.52 | 5.32 | 3.07 | 0.22 | -0.52 | -1.01 | 0.26 | -0.23 | 0.03 | -2992 | 0.54 | 0.47 |



Stellar Parameters For KIC 005262664

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | R (R_{\odot}) | M (M_{\odot}) | p_{\star} ($\text{g}\cdot\text{cm}^{-3}$) |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 4771^{+142}_{-128} | $4.617^{+0.054}_{-0.031}$ | $-0.480^{+0.300}_{-0.300}$ | $0.646^{+0.062}_{-0.056}$ | $0.630^{+0.082}_{-0.038}$ | $3.293^{+0.797}_{-0.481}$ |
| | +3%/-3% | +1%/-1% | +62%/-62% | +10%/-9% | +13%/-6% | +24%/-15% |
| 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 005262664-07 / KOI

| Detrend | Depth (ppm) | R_p (R_{\oplus}) | T_{max} (K) | T_{obs} (K) | A_{obs} |
|---------|----------------|------------------------|-------------------|----------------------|-------------------------|
| DV | -517 ± 263 | $3.05^{+0.30}_{-0.32}$ | 291^{+10}_{-9} | 3763^{+330}_{-382} | 13001^{+7904}_{-6122} |
| Alt. | -213 ± 165 | $8.07^{+0.50}_{-0.49}$ | 292^{+10}_{-10} | 2503^{+200}_{-358} | 757^{+633}_{-563} |

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 $A_{obs} \gg 1.0$

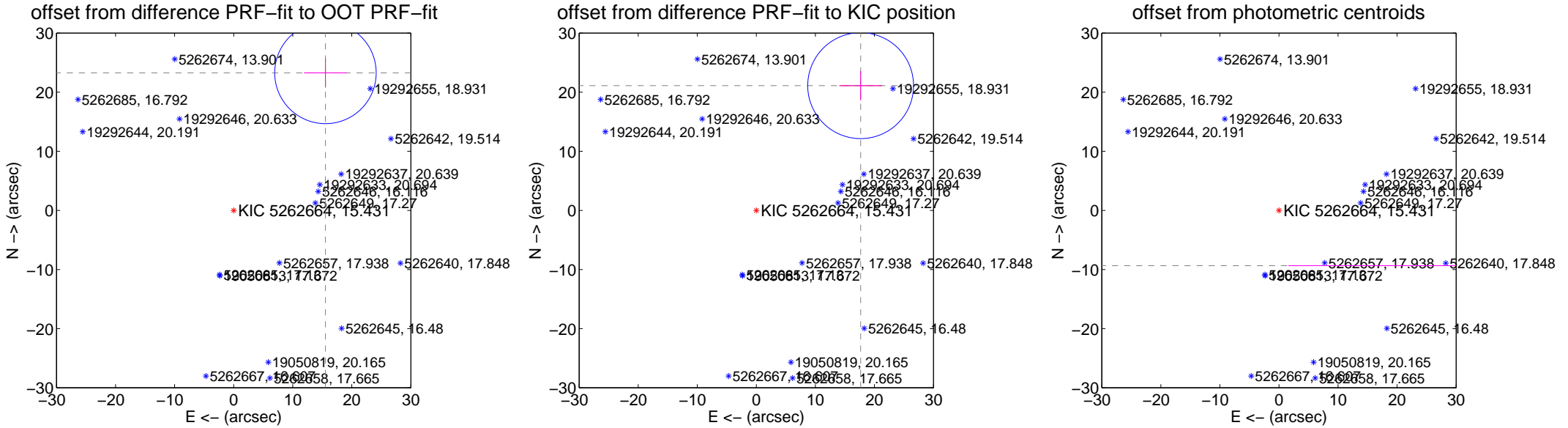
DV Centroid Data

Supplemental centroid analysis for 005262664-07. Kepler magnitude: 15.43. Transit SNR 9.98

There are 0 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 3.03 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

| | Distance in arcsec | Distance / σ | Δ RA | Δ Dec |
|---|--------------------|---------------------|---------------------|--------------------|
| PRF-fit source offset from OOT | 27.980 ± 2.864 | 9.77 | -15.541 ± 3.604 | 23.267 ± 2.464 |
| PRF-fit source offset from KIC position | 27.521 ± 2.987 | 9.21 | -17.663 ± 3.604 | 21.105 ± 2.464 |
| photometric centroid source offset | 43.44 ± 40.67 | 1.07 | -42.42 ± 40.85 | -9.35 ± 36.76 |

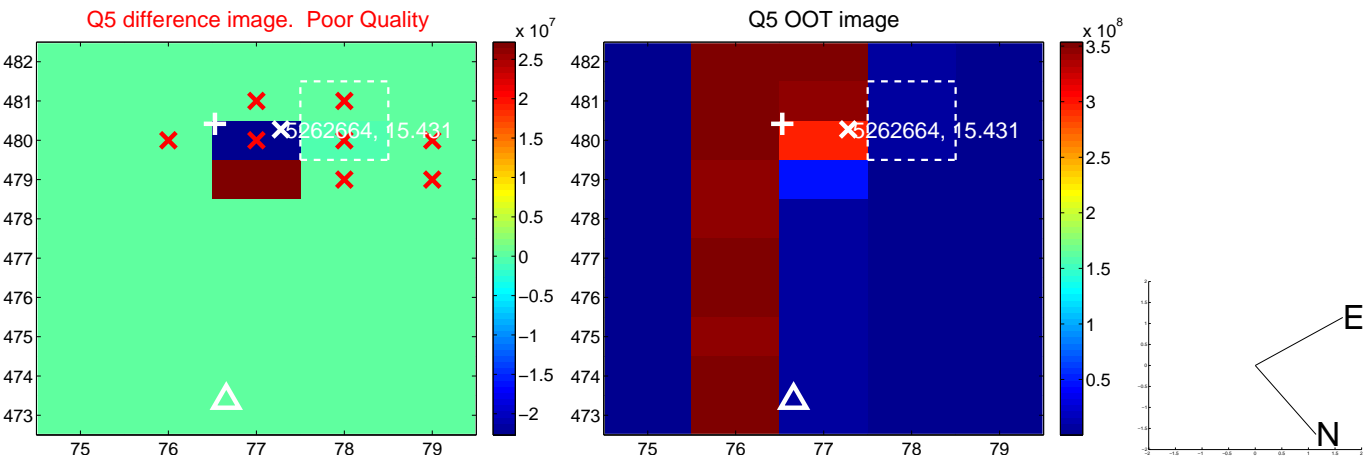


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

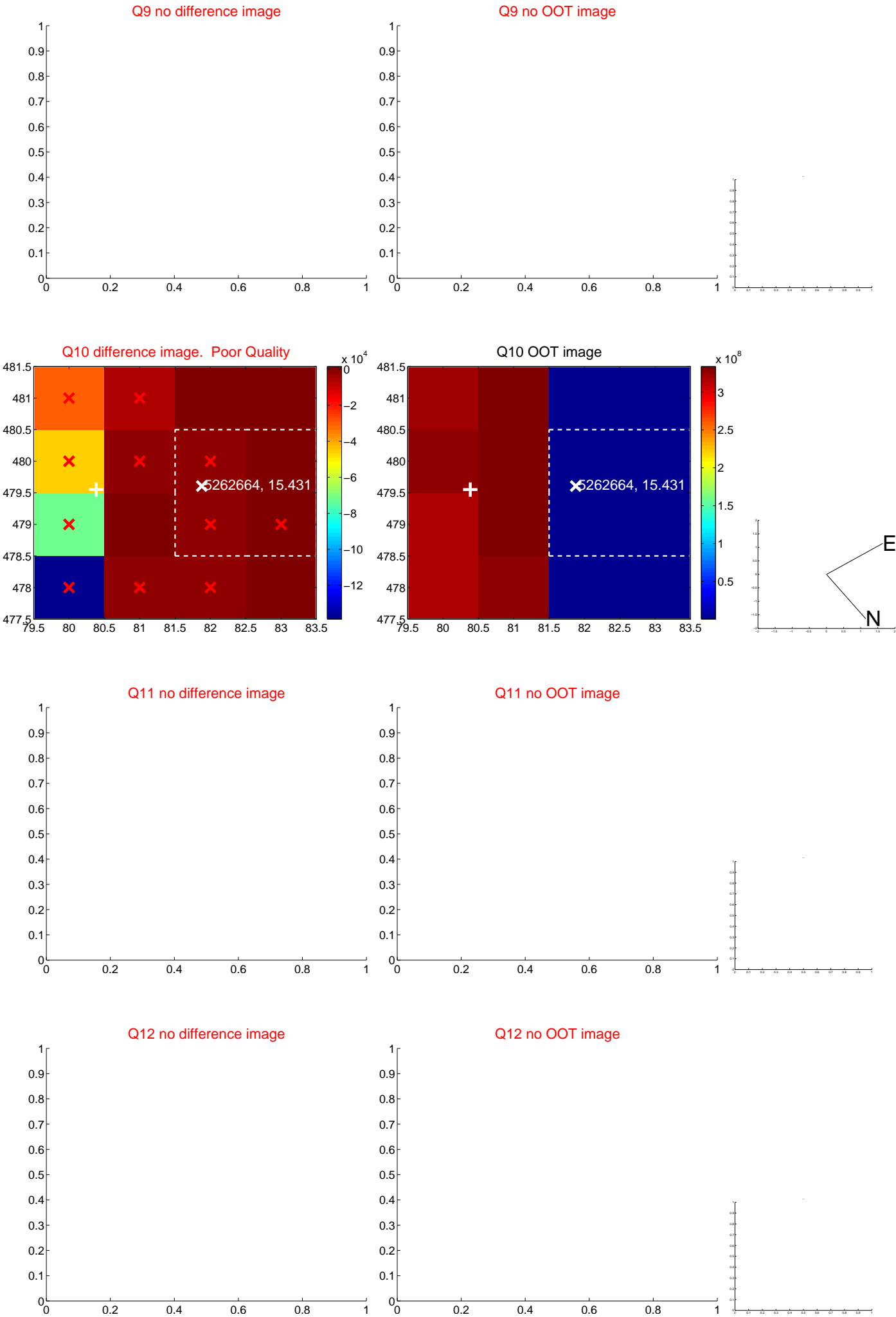
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



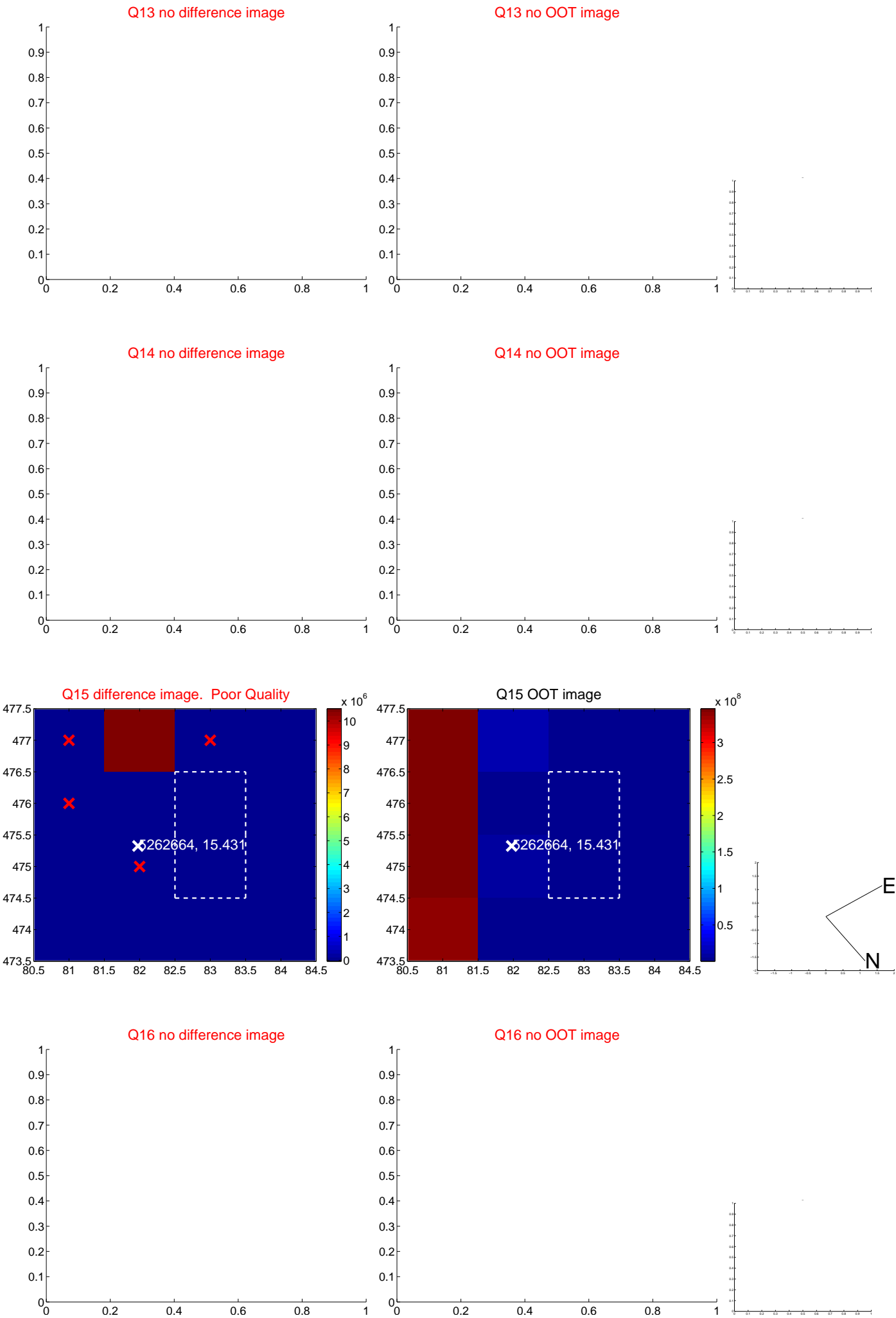
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



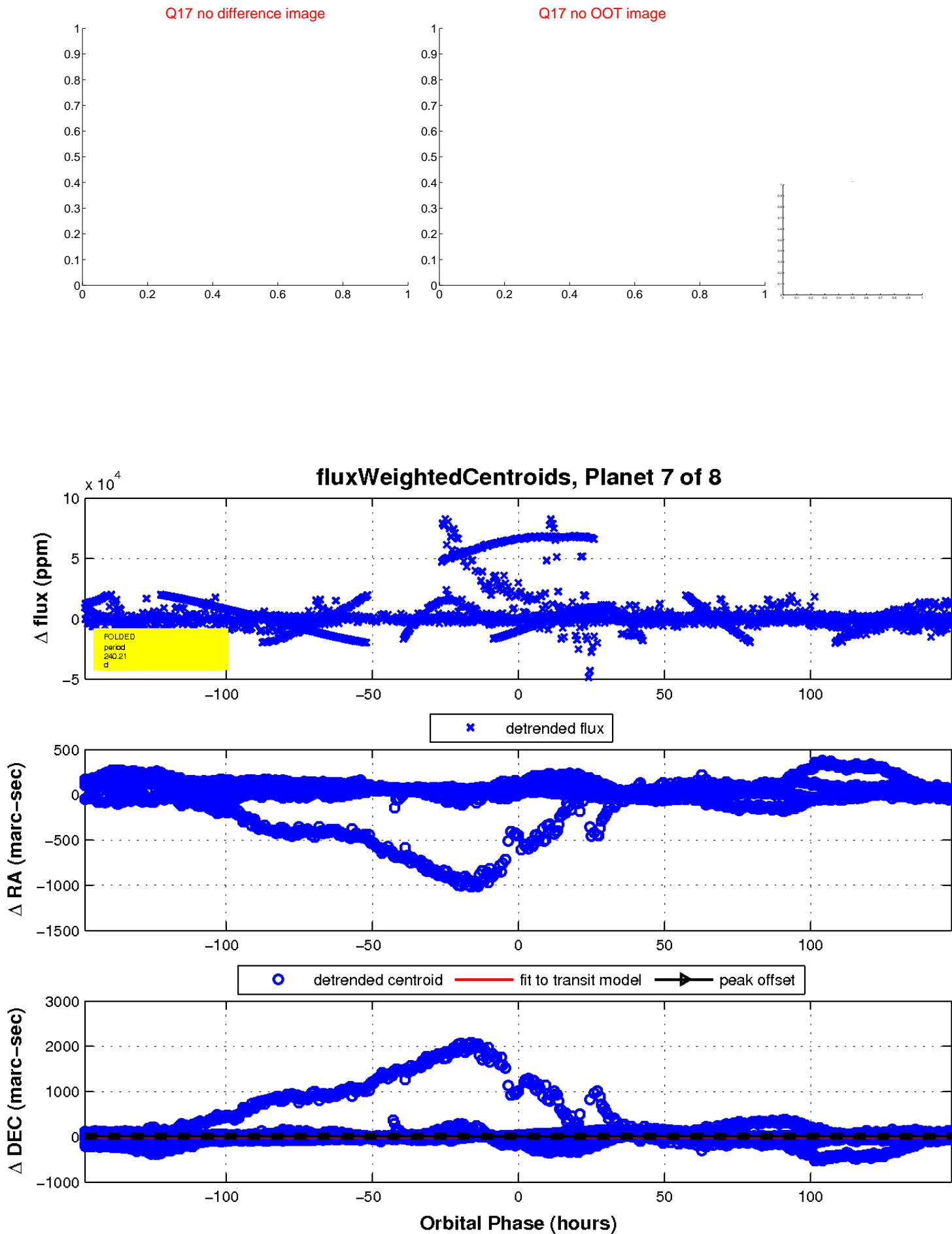
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

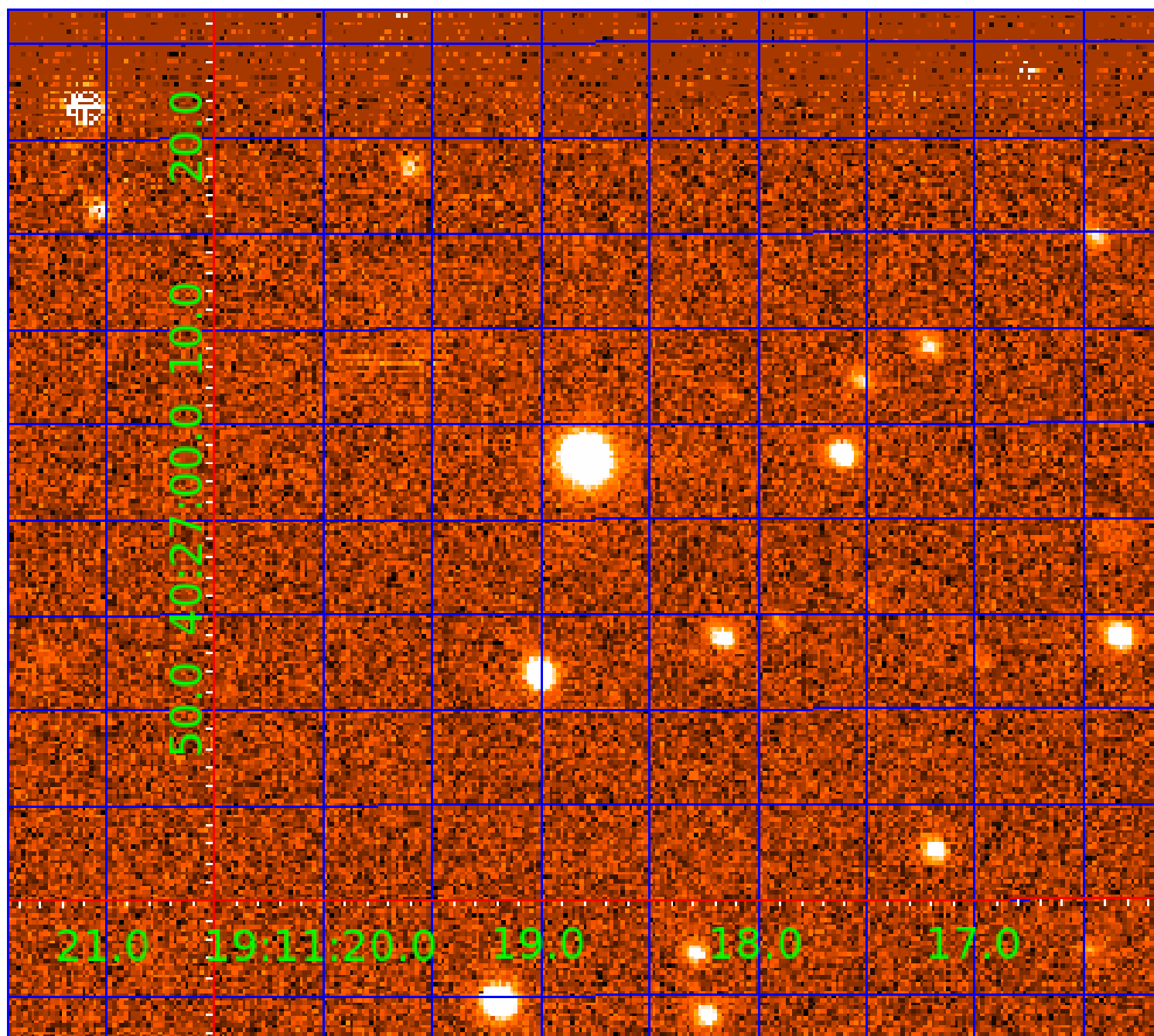


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005262664

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|-------|------|-----------------------------|-----------------|------------------------|------------------------|
| 005262664-01 | OBS | No | 365.920200 | 208.663428 | 78.8 | 2.620 | 188.6 | 1.0 | 0.65 | 4771 | 0.61 | 0.26 |
| 005262664-02 | OBS | No | 364.085172 | 217.788295 | 103607.9 | 15.000 | 273.4 | -1.0 | 0.65 | 4771 | 20.22 | 0.27 |
| 005262664-03 | OBS | No | 371.822680 | 200.842063 | 68946.7 | 15.000 | 217.5 | -1.0 | 0.65 | 4771 | 16.46 | 0.26 |
| 005262664-04 | OBS | No | 372.640023 | 205.317013 | 772566.2 | 15.000 | 204.8 | -1.0 | 0.65 | 4771 | 19.45 | 0.26 |
| 005262664-05 | OBS | No | 378.445434 | 196.712296 | 168223.1 | 91.262 | 142.0 | 32.9 | 0.65 | 4771 | 45.21 | 0.25 |
| 005262664-06 | OBS | No | 386.021749 | 445.972289 | 79375.7 | 5.327 | 137.9 | 90.3 | 0.65 | 4771 | 17.66 | 0.24 |
| 005262664-07 | OBS | No | 240.211680 | 256.692238 | 1349.8 | 49.443 | 115.3 | 10.0 | 0.65 | 4771 | 3.06 | 0.46 |
| 005262664-08 | OBS | No | 302.205541 | 203.283873 | 19853.1 | 12.000 | 54.9 | -1.0 | 0.65 | 4771 | 8.81 | 0.34 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|---|
| 005262664-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-02 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-04 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS |
| 005262664-05 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-06 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-07 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS |
| 005262664-08 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS |

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

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

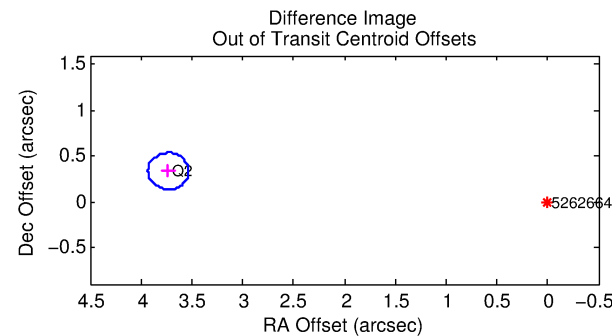
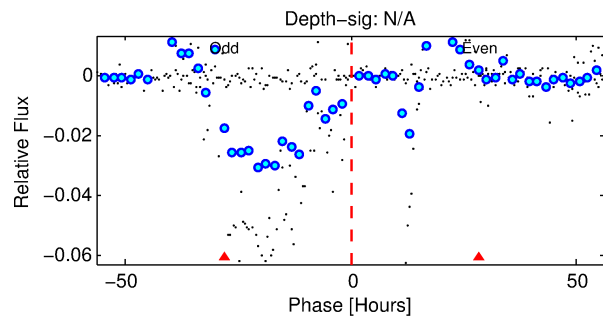
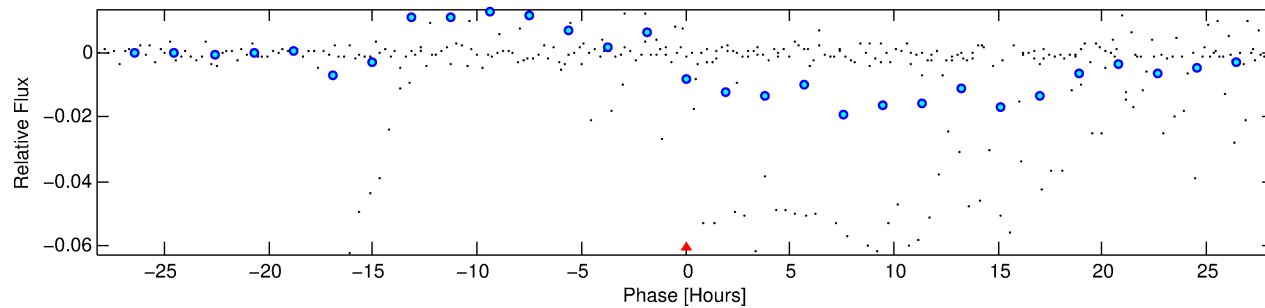
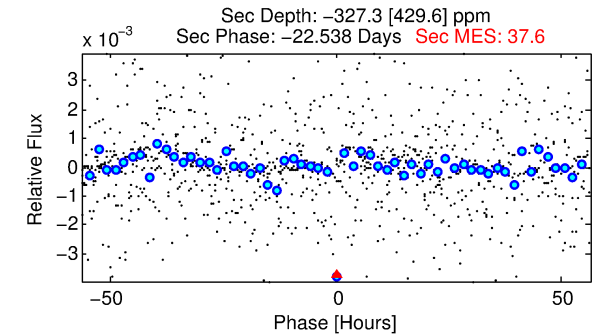
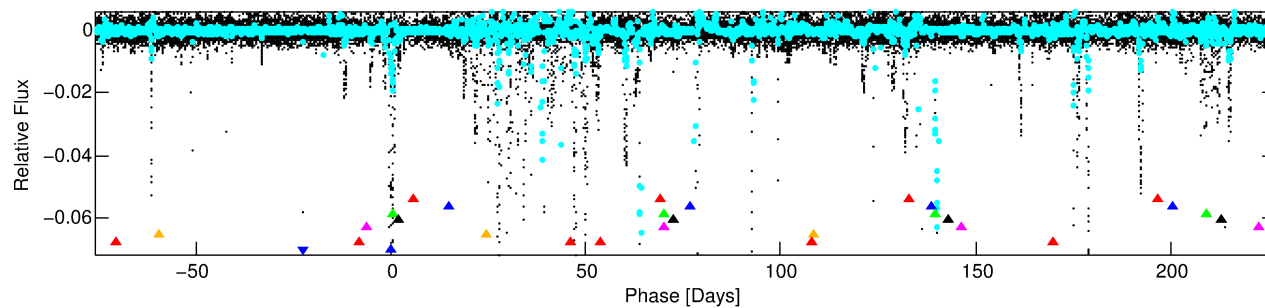
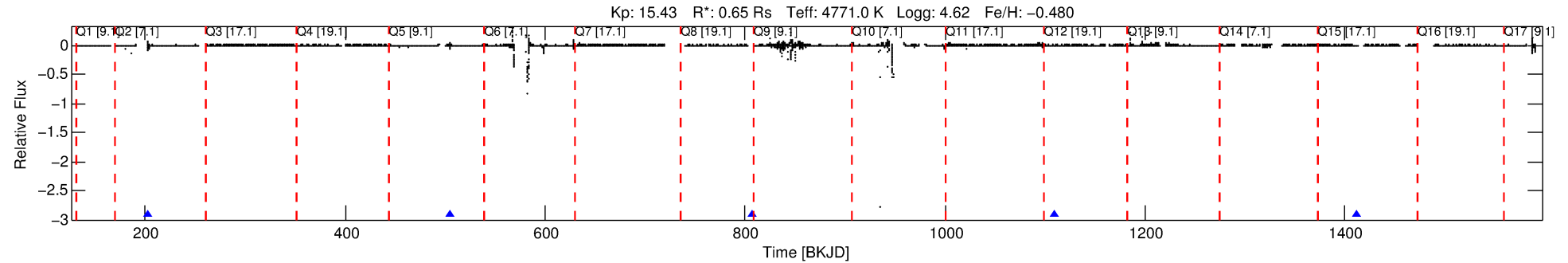
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005262664-08

No Significant Match Found

DV One-Page Summary

KIC: 5262664 Candidate: 8 of 8 Period: 302.206 d



TPS TCE Results:

Period = 302.20554 d
Epoch = 203.2839 BKJD

DV fit results are unavailable

DV Diagnostic Results:

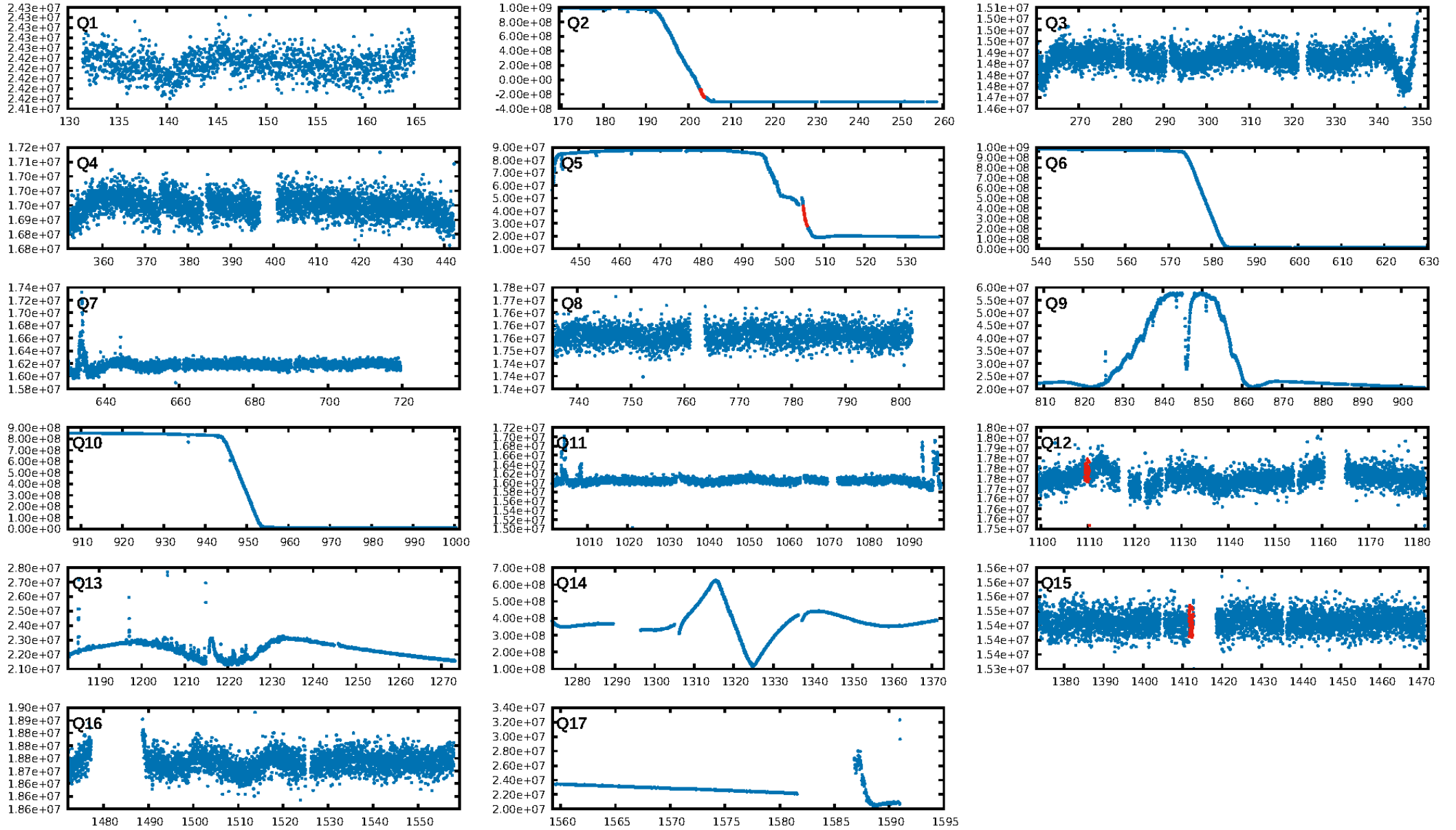
ShortPeriod-sig: 100.0% [29.24 σ]
LongPeriod-sig: 100.0% [77.31 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -0.4777

Centroid-sig: N/A
Centroid-so: 1.595 arcsec [13.42 σ]
OotOffset-rm: 3.746 arcsec [56.12 σ]
KicOffset-rm: 2.712 arcsec [40.63 σ]
OotOffset-st: 1/0/0/0 [1]
KicOffset-st: 1/0/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 0.00 [0/1]

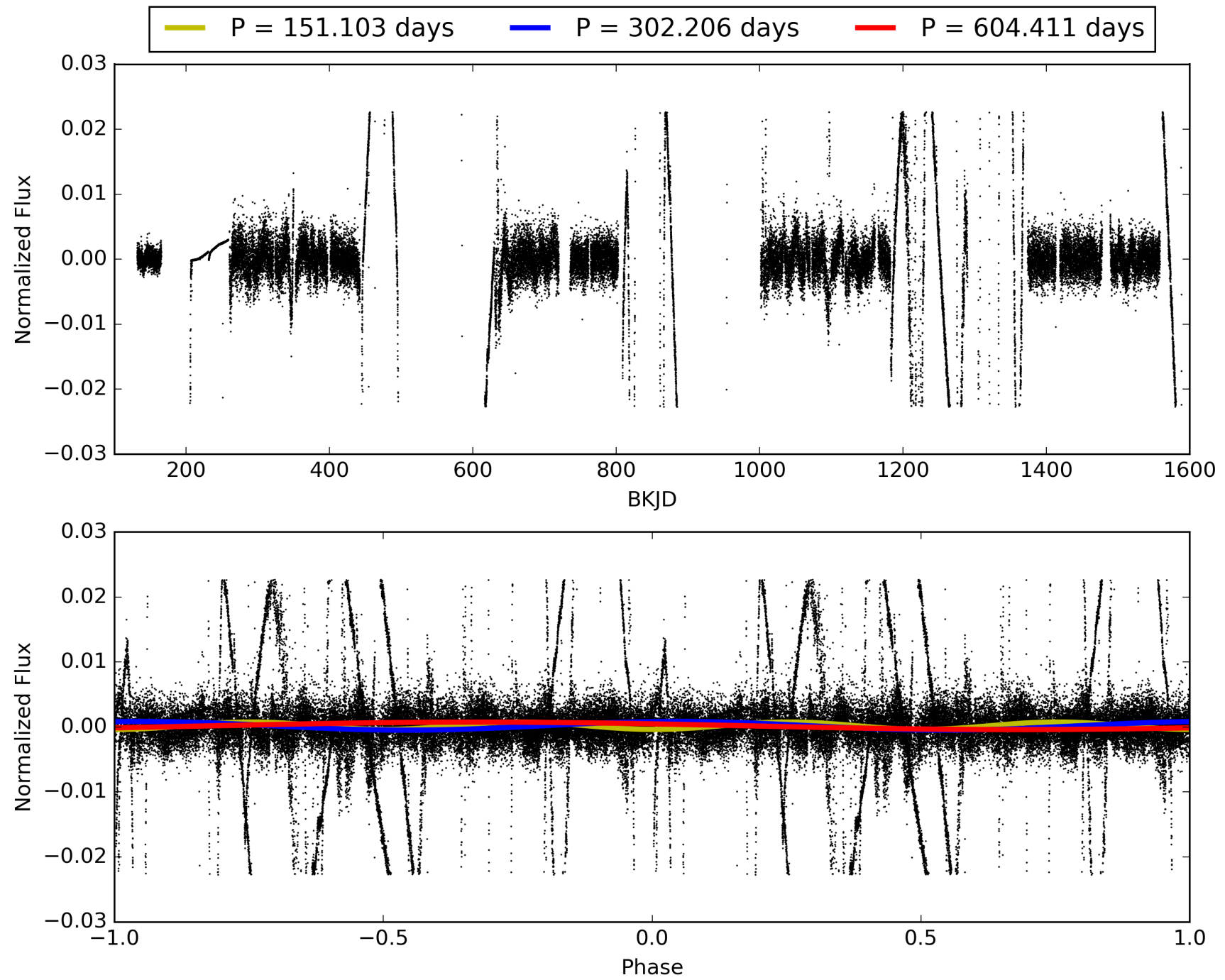
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 01:31:00 Z

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

TCE 005262664-08, PDC Light Curves

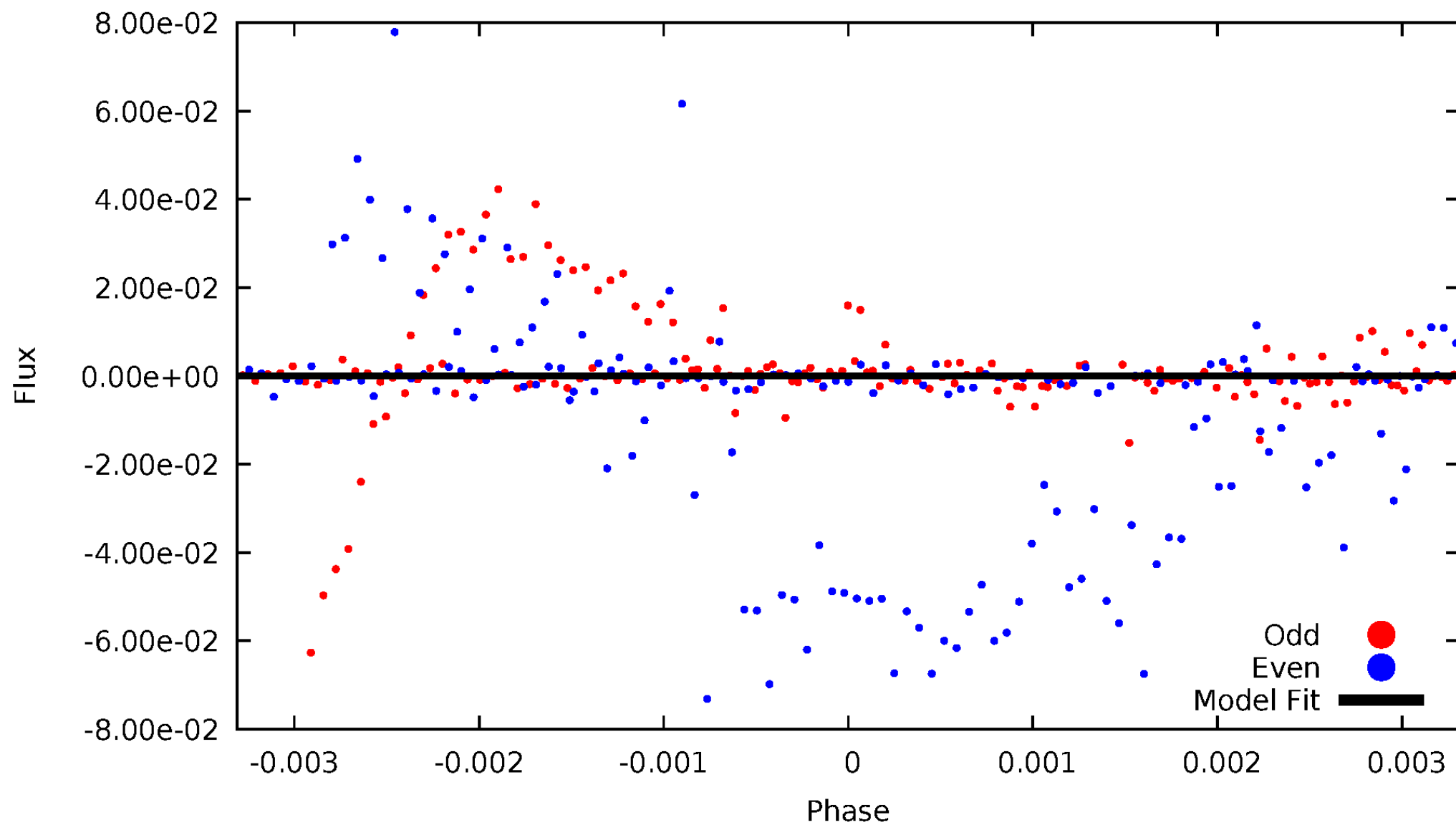


TCE 005262664-08



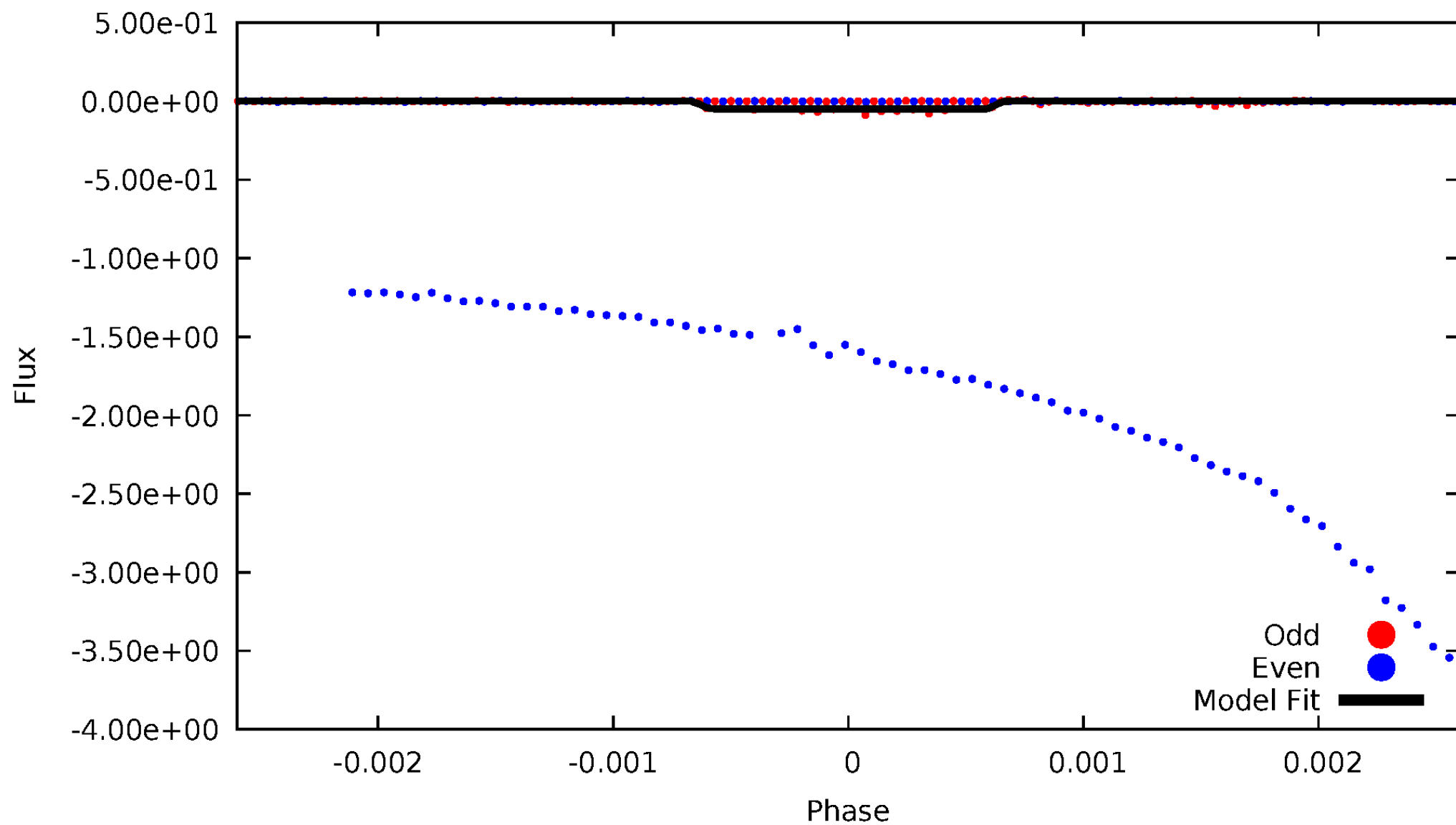
DV Odd/Even

TCE 005262664-08



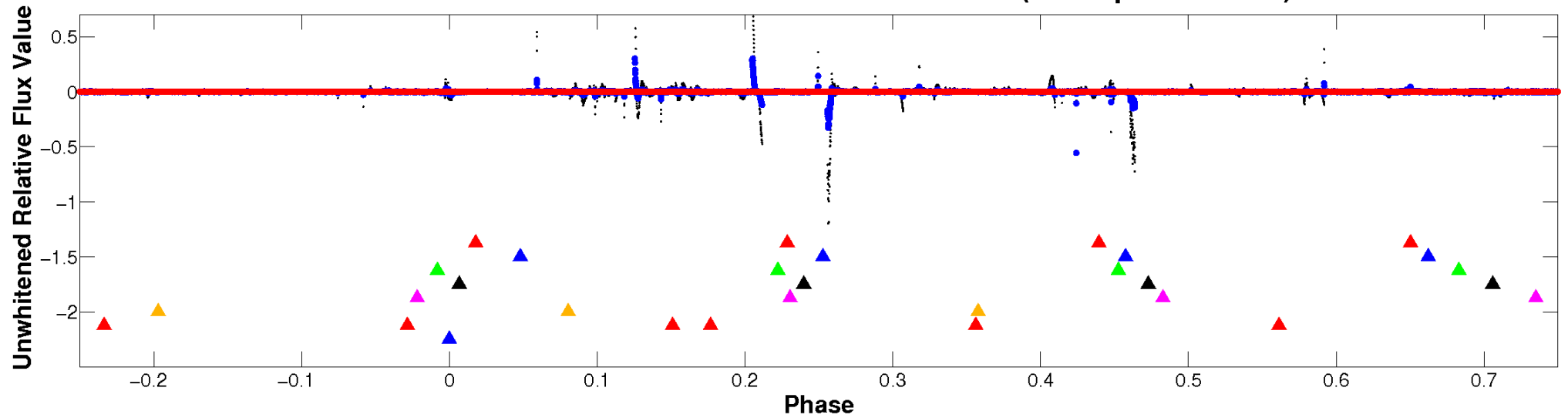
ALT Odd/Even

TCE 005262664-08

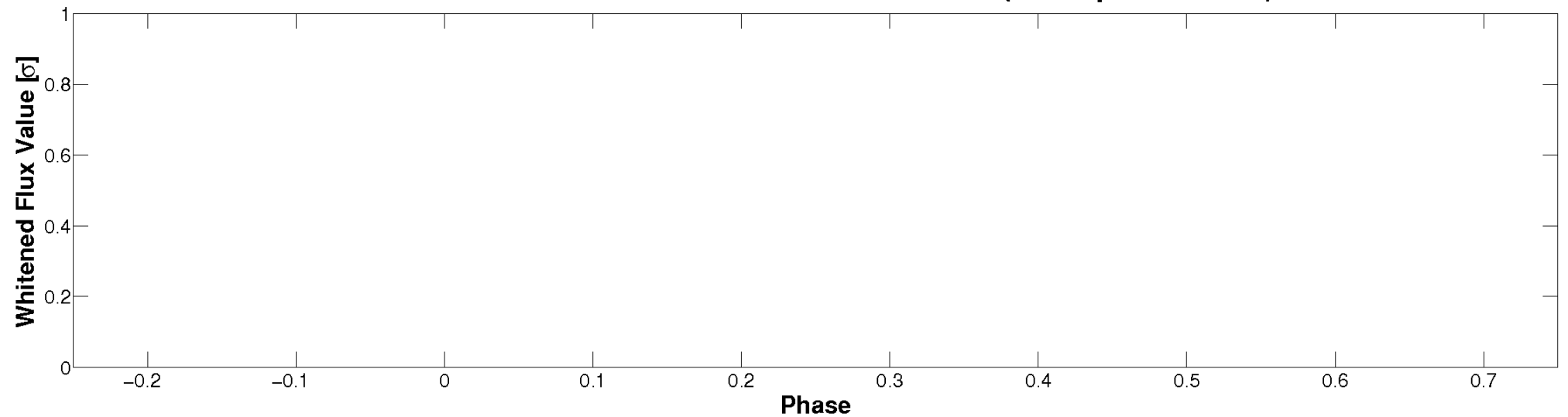


Non-Whitened Vs. Whitened Light Curve

Planet 8 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

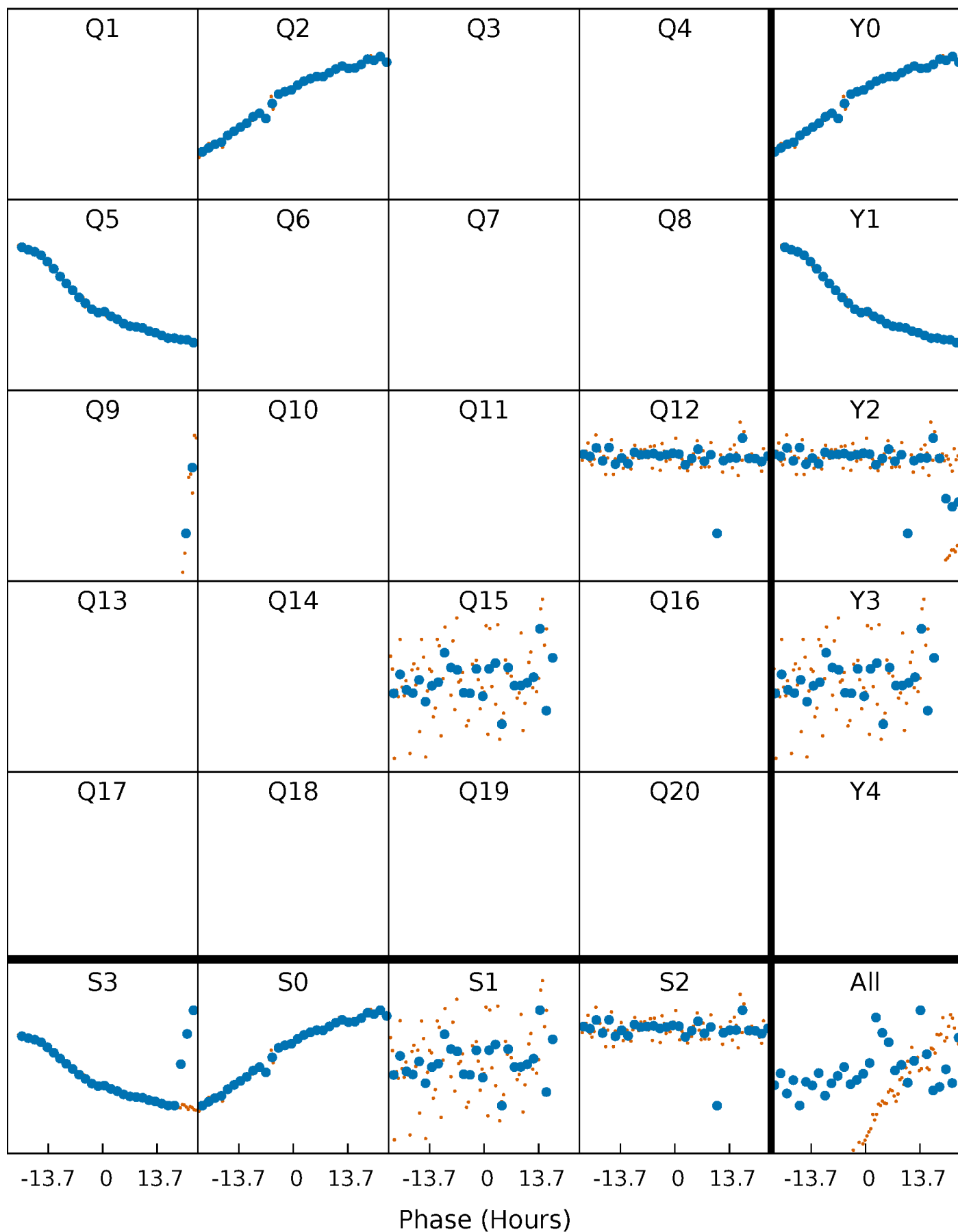


Planet 8 : Phased Whitened Flux Time Series (TPS Epoch/Period)



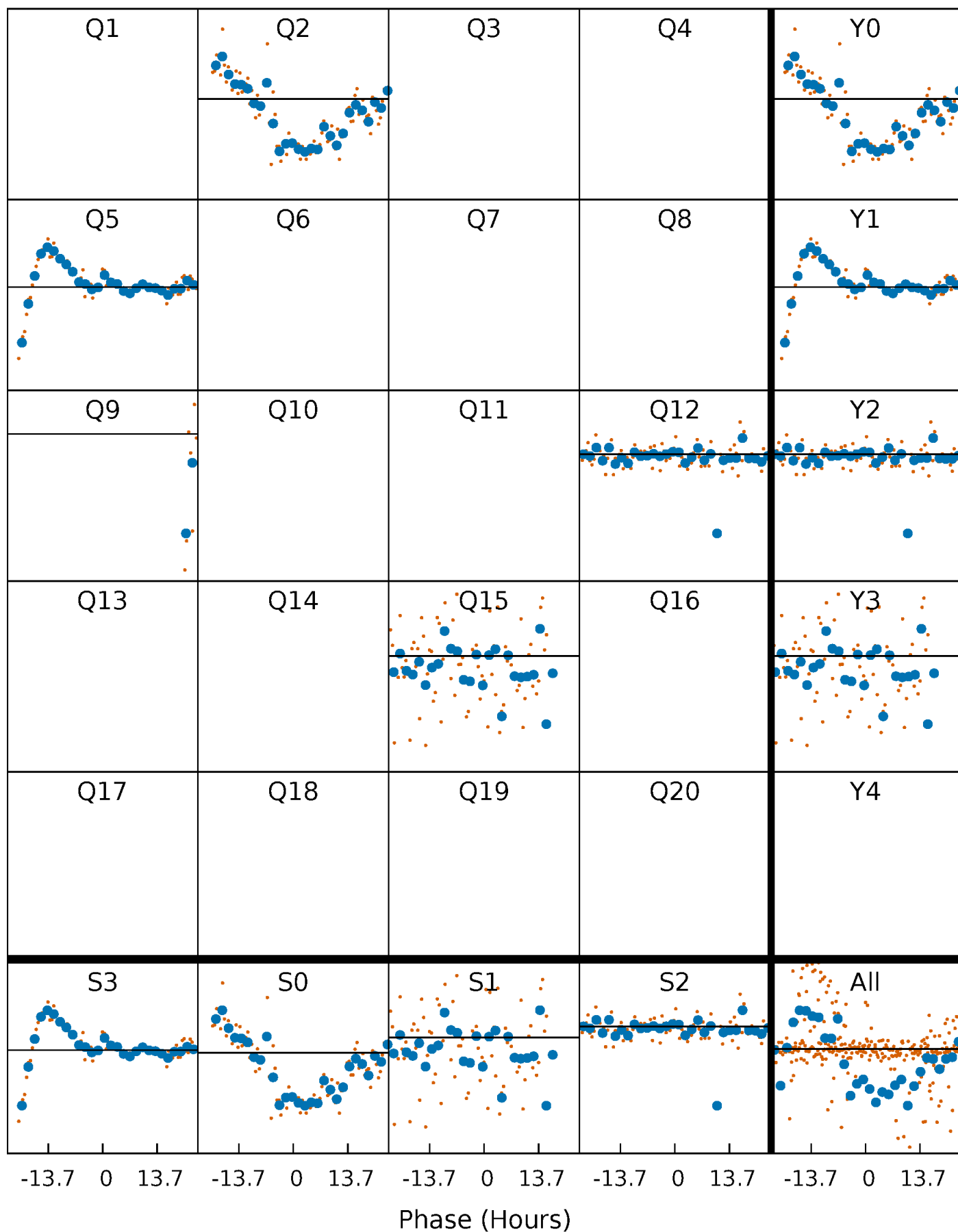
PDC Quarter-Phased Transit Curves

TCE 005262664-08 $P=302.205541$ Days $T_0=203.283873$ (BKJD)



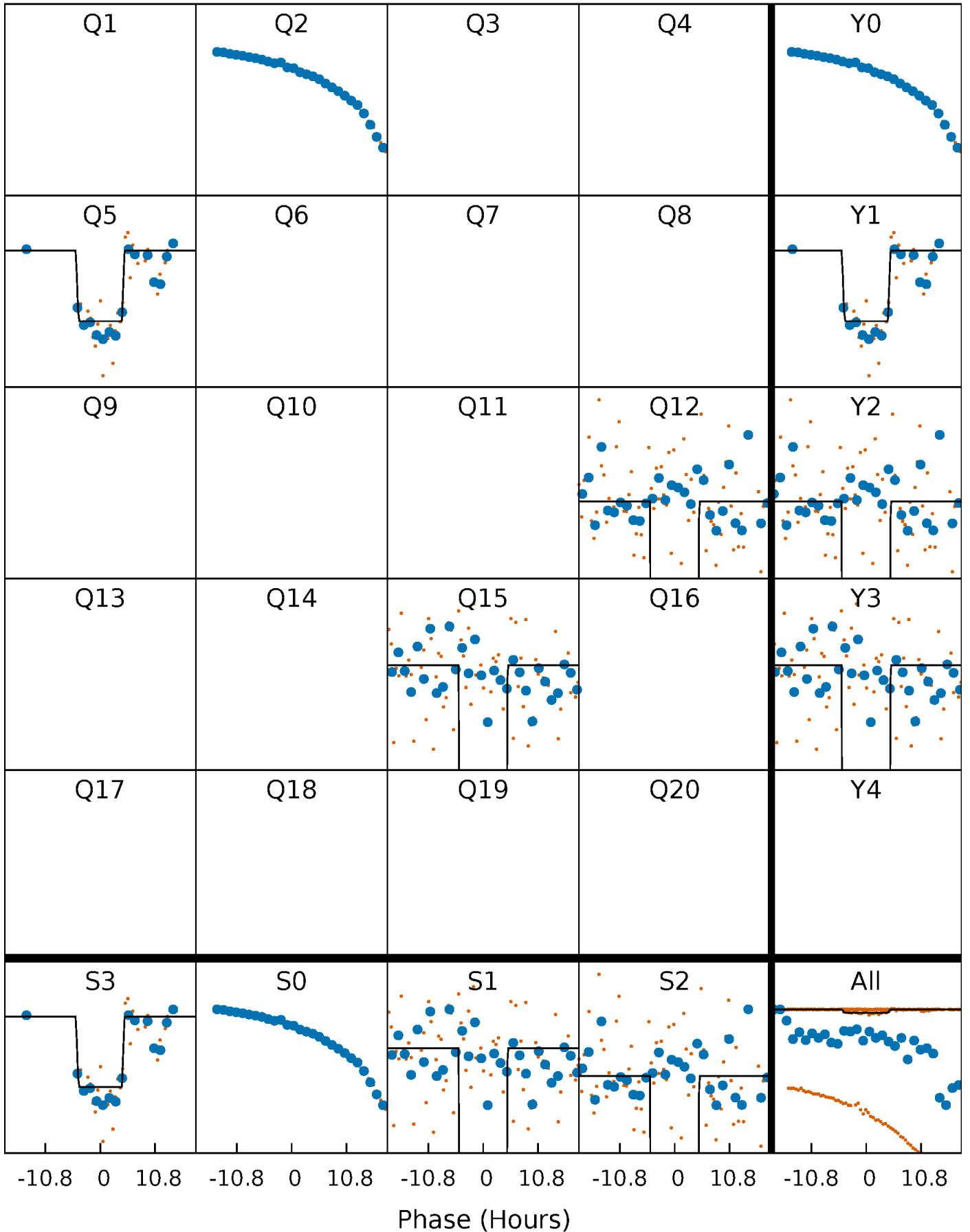
DV Quarter-Phased Transit Curves

TCE 005262664-08 $P=302.205541$ Days $T_0=203.283873$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

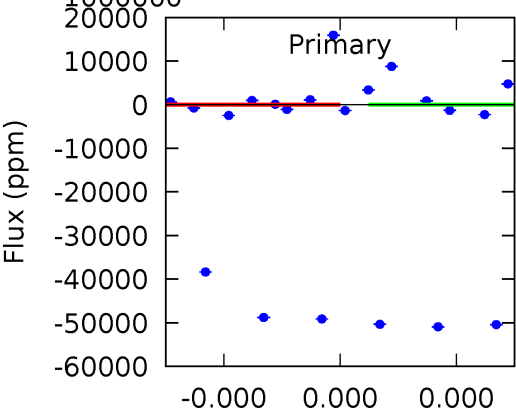
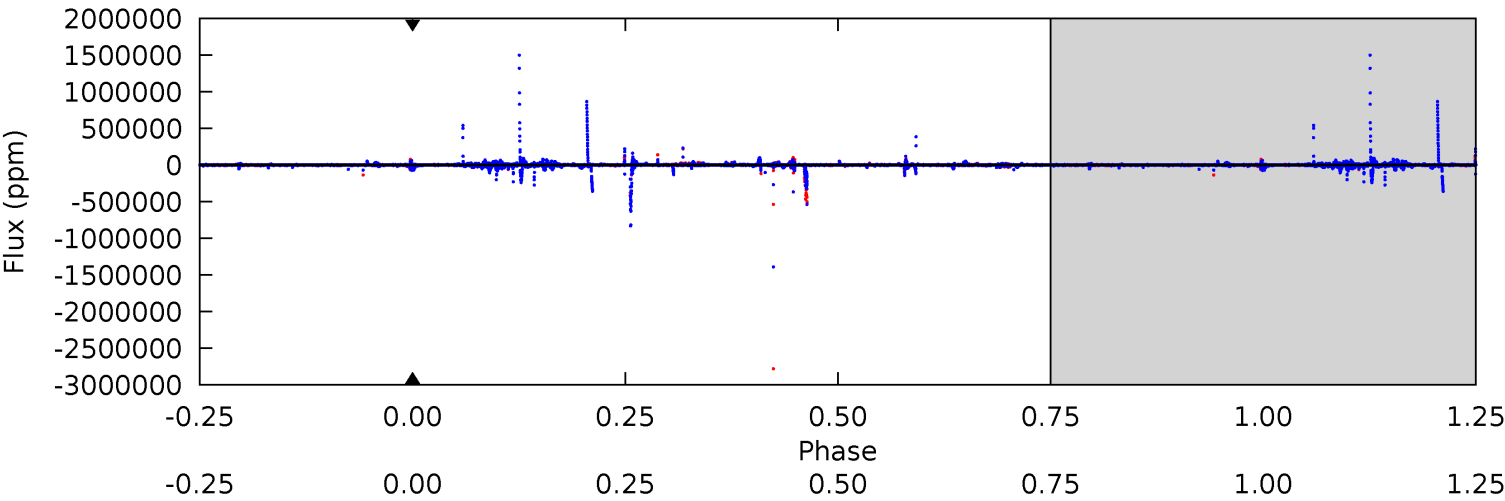
TCE 005262664-08 P=302.205541 Days $T_0=203.077210$ (BKJD)



DV Model-Shift Uniqueness Test

005262664-08, P = 302.205541 Days, E = 203.283873 Days

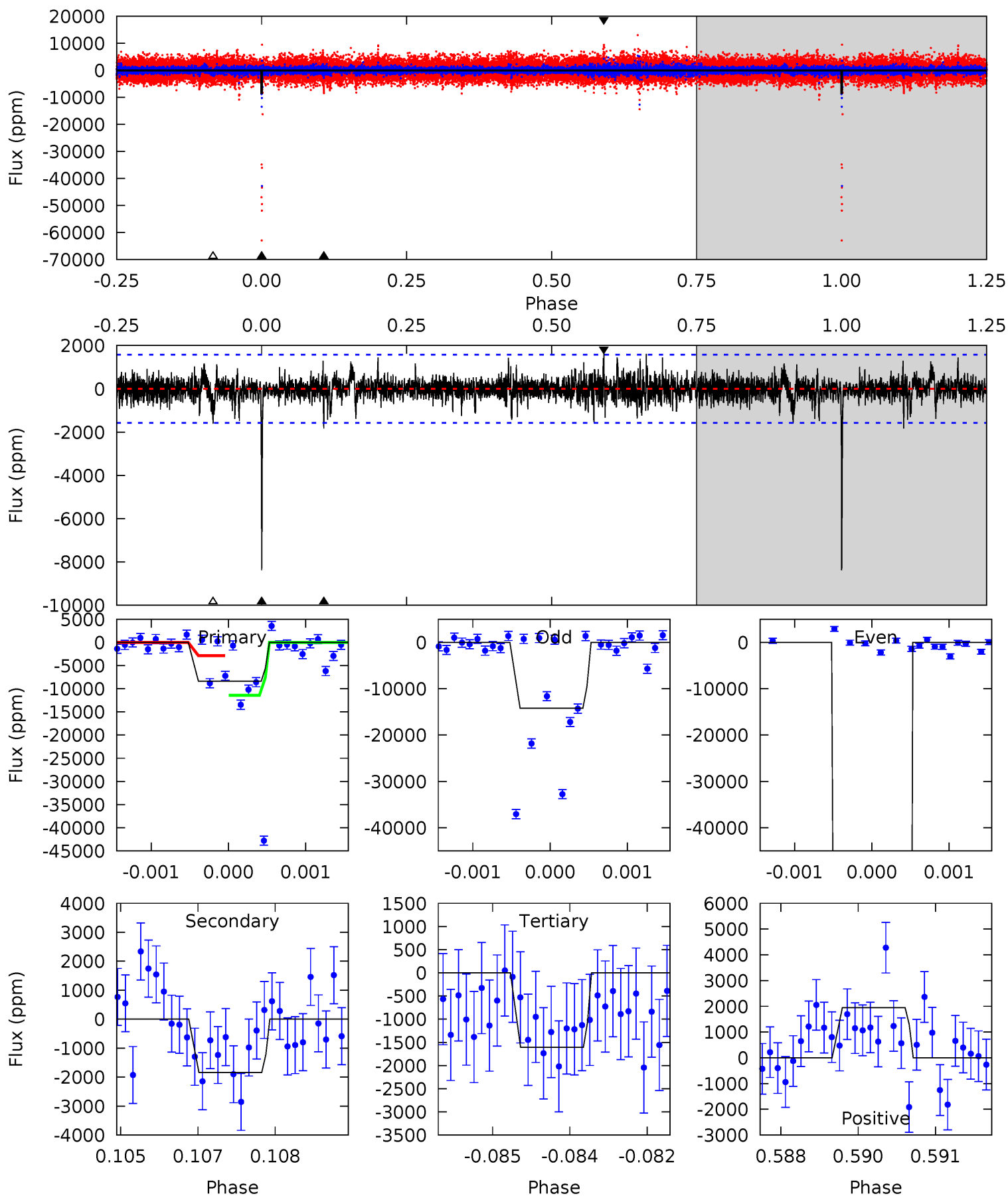
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|-----|-----|-----|-----|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|-----|-------|-----|
| 0 | 0 | 0 | 0 | 1.00 | 1.00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



Alt Model-Shift Uniqueness Test

005262664-08, P = 302.205541 Days, E = 203.077210 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|-----|
| 28.8 | 6.31 | 5.52 | 6.67 | 5.41 | 3.22 | 1.22 | 23.3 | 22.1 | 0.79 | -0.36 | 61.1 | 15.4 | 0.19 | 0 |



Stellar Parameters For KIC 005262664

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | R (R_{\odot}) | M (M_{\odot}) | p_{\star} ($\text{g}\cdot\text{cm}^{-3}$) |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---|
| | 4771^{+142}_{-128} | $4.617^{+0.054}_{-0.031}$ | $-0.480^{+0.300}_{-0.300}$ | $0.646^{+0.062}_{-0.056}$ | $0.630^{+0.082}_{-0.038}$ | $3.293^{+0.797}_{-0.481}$ |
| | +3%/-3% | +1%/-1% | +62%/-62% | +10%/-9% | +13%/-6% | +24%/-15% |
| 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 005262664-08 / KOI

| Detrend | Depth (ppm) | R_p (R_{\oplus}) | T_{max} (K) | T_{obs} (K) | A_{obs} |
|---------|-----------------|-------------------------|------------------|--------------------------|---|
| DV | 0 ± 1000000 | $9.79^{+6.40}_{-5.60}$ | 271^{+10}_{-9} | -3013^{+10873}_{-4754} | $-4865.571^{+508286.150}_{-453176.370}$ |
| Alt. | -1837 ± 291 | $15.57^{+7.49}_{-7.51}$ | 270^{+10}_{-9} | 2802^{+564}_{-286} | 2450^{+6642}_{-1366} |

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

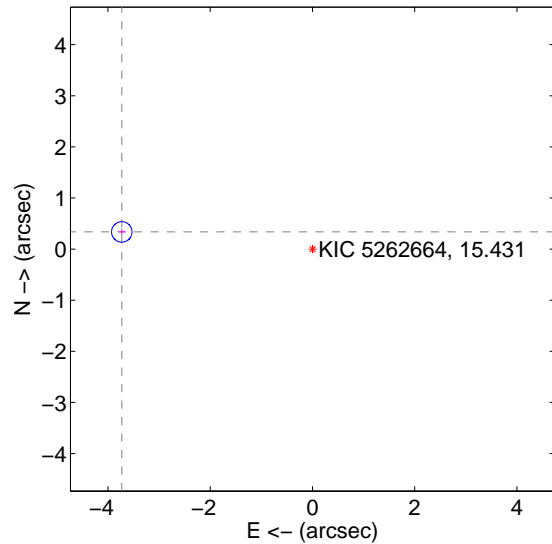
Supplemental centroid analysis for 005262664-08. Kepler magnitude: 15.43. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

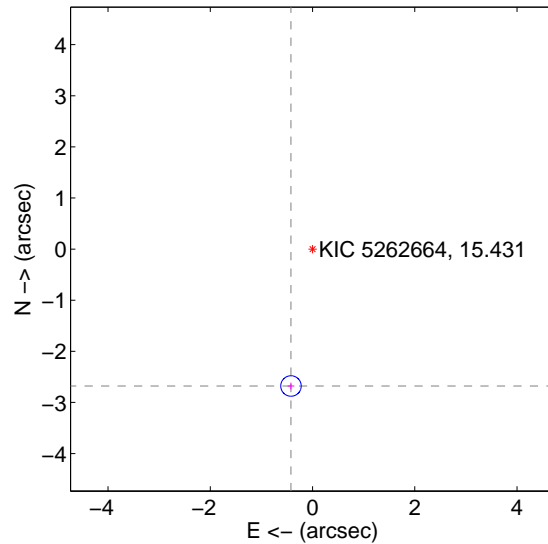
The OOT PRF centroid is offset from the target star catalog position by about 4.48 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

| | Distance in arcsec | Distance / σ | Δ RA | Δ Dec |
|---|--------------------|---------------------|-------------------|--------------------|
| PRF-fit source offset from OOT | 3.746 ± 0.067 | 56.12 | 3.730 ± 0.067 | 0.336 ± 0.067 |
| PRF-fit source offset from KIC position | 2.712 ± 0.067 | 40.63 | 0.422 ± 0.067 | -2.679 ± 0.067 |
| photometric centroid source offset | 1.59 ± 0.12 | 13.42 | 0.23 ± 0.10 | -1.58 ± 0.12 |

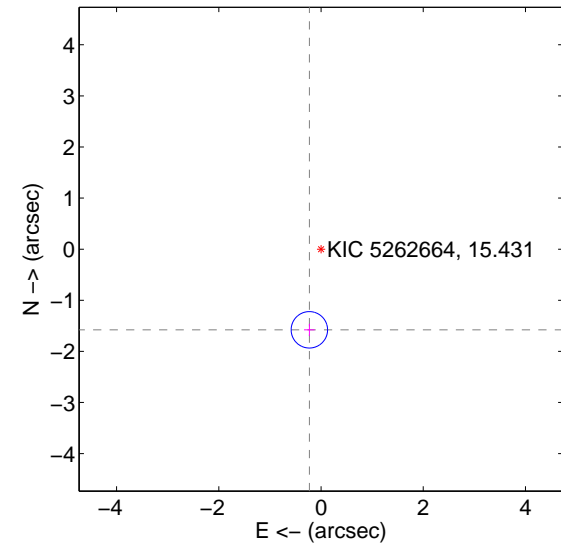
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

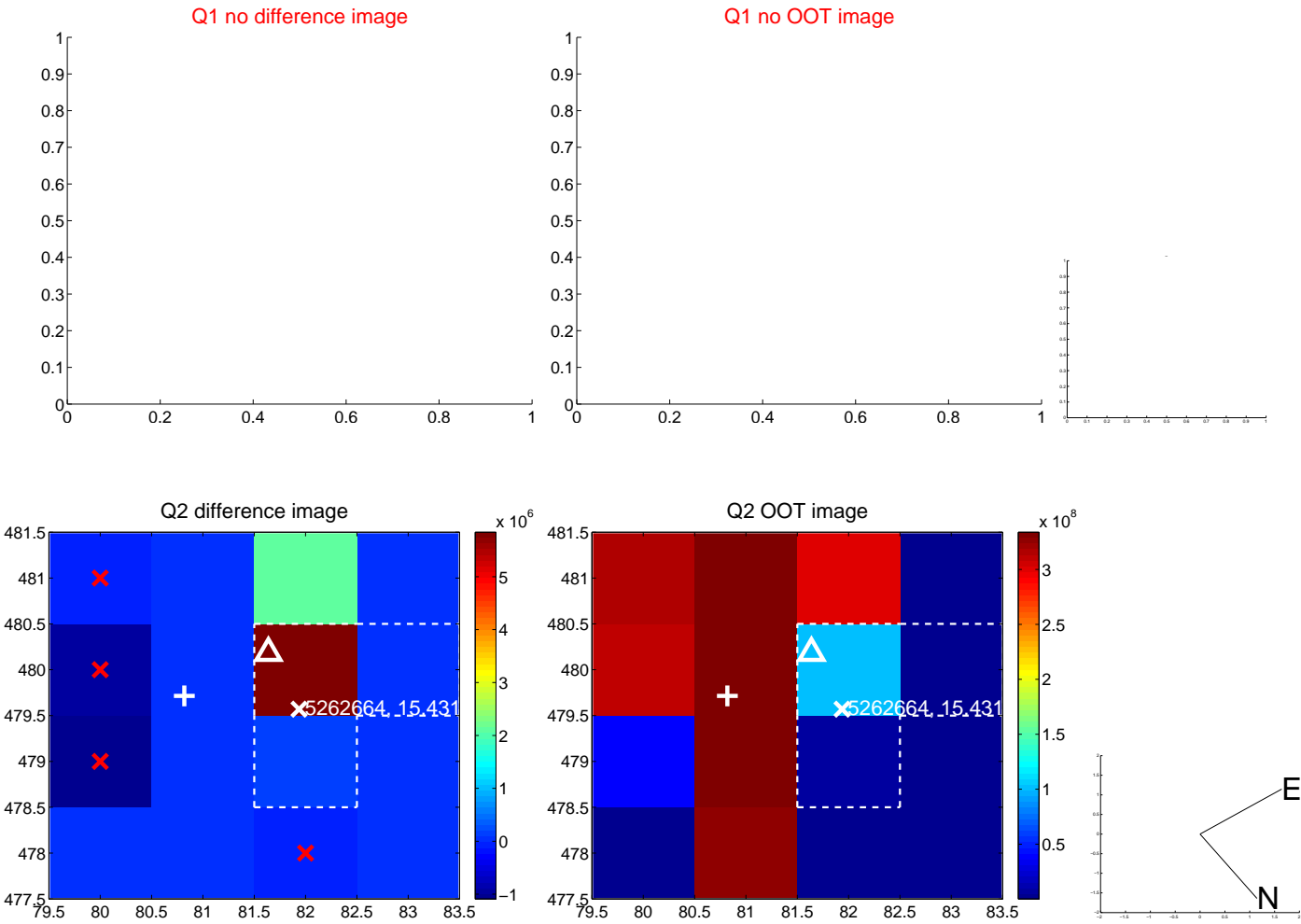


offset from photometric centroids



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.



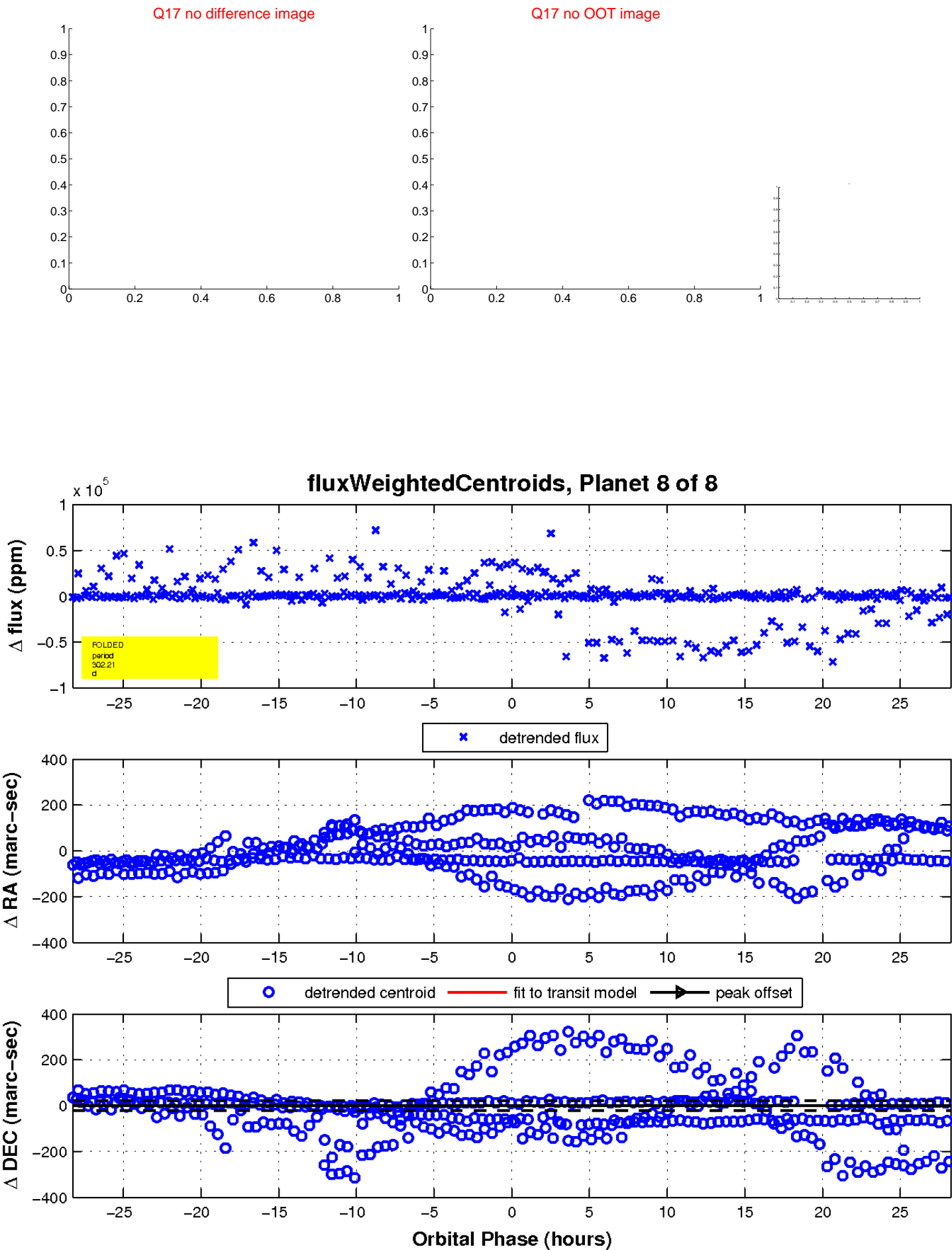
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

