

KIC 006366512

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|-----|-----|-----------------------------|-----------------|------------------------|------------------------|
| 006366512-01 | OBS | No | 2.658186 | 132.910562 | 12.7 | 4.605 | 8.6 | 2.5 | 1.75 | 6980 | 0.64 | 3524.19 |
| 006366512-02 | OBS | No | 2.658374 | 133.132714 | 21.7 | 1.484 | 8.1 | 2.0 | 1.75 | 6980 | 0.87 | 3523.86 |
| 006366512-03 | OBS | No | 2.658764 | 133.277202 | 13.4 | 1.742 | 8.1 | 2.3 | 1.75 | 6980 | 0.74 | 3523.17 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|--|
| 006366512-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT |
| 006366512-02 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD |
| 006366512-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD |

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

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

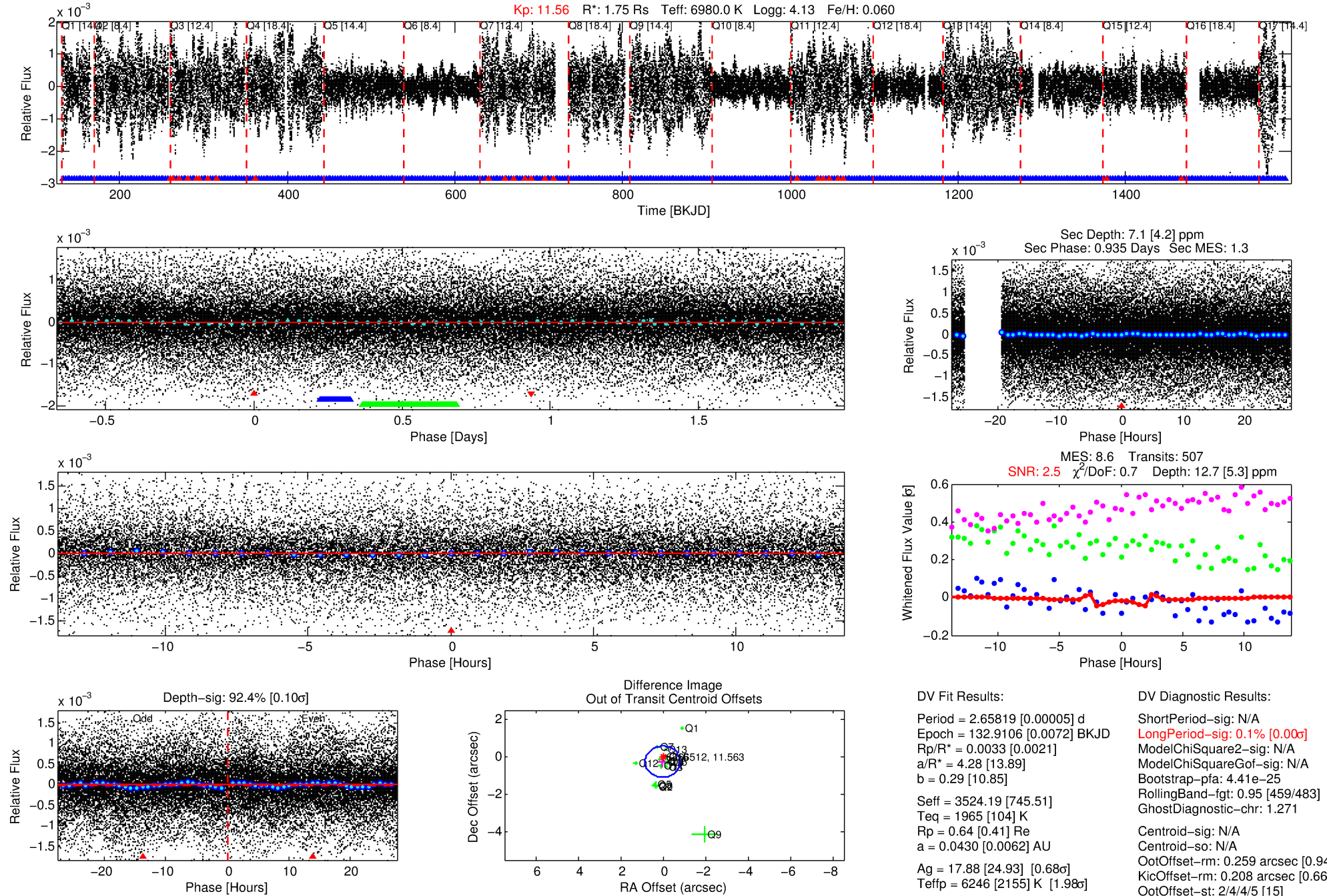
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006366512-01

No Significant Match Found

DV One-Page Summary

KIC: 6366512 Candidate: 1 of 3 Period: 2.658 d



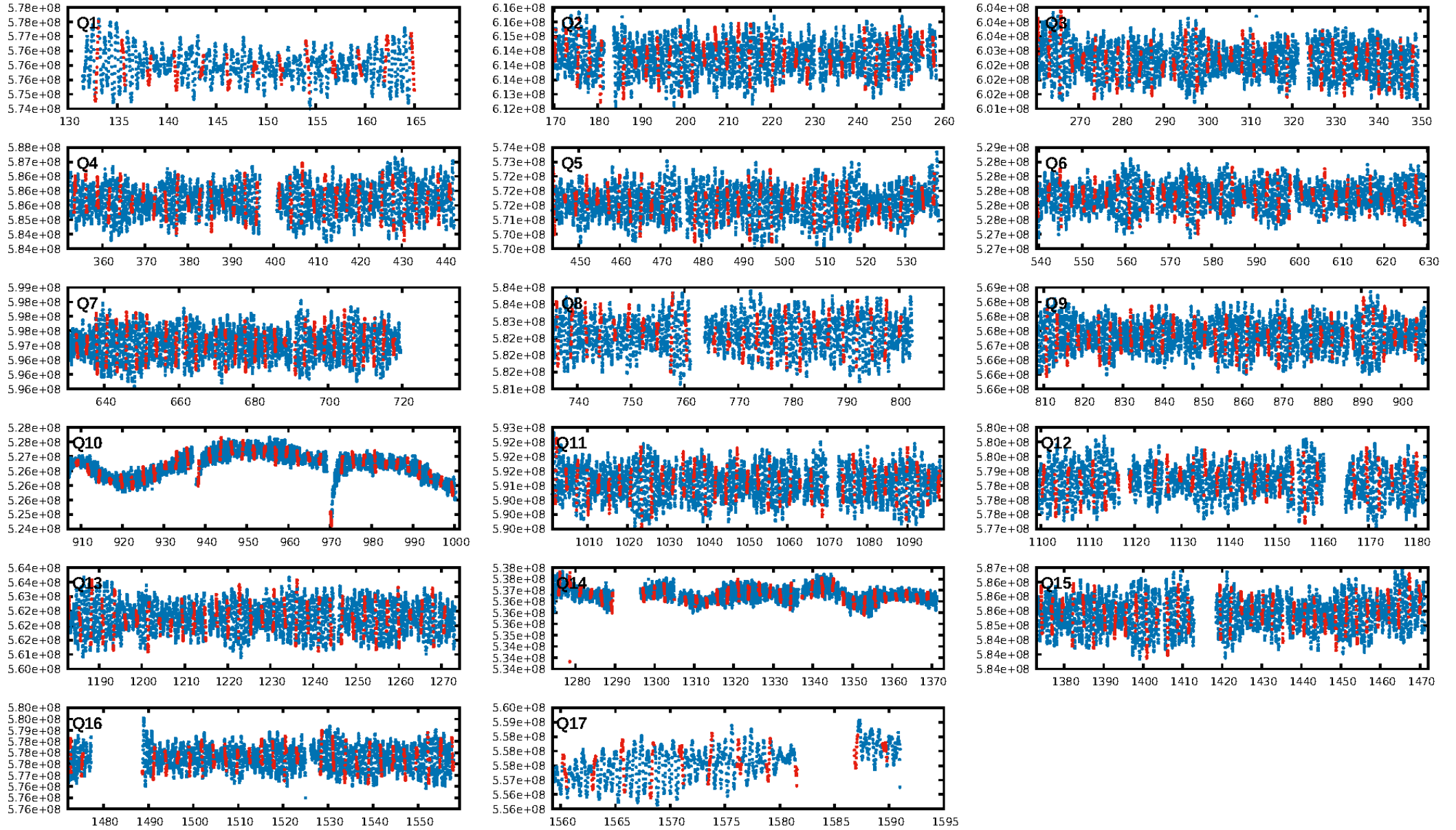
DV Fit Results:

Period = 2.65819 [0.00005] d
Epoch = 132.9106 [0.0072] BKJD
Rp/R* = 0.0033 [0.0021]
a/R* = 4.28 [13.89]
b = 0.29 [10.85]
Seff = 3524.19 [745.51]
Teq = 1965 [104] K
Rp = 0.64 [0.41] Re
a = 0.0430 [0.0062] AU
Ag = 17.88 [24.93] [0.68σ]
Teffp = 6246 [2155] K [1.98σ]

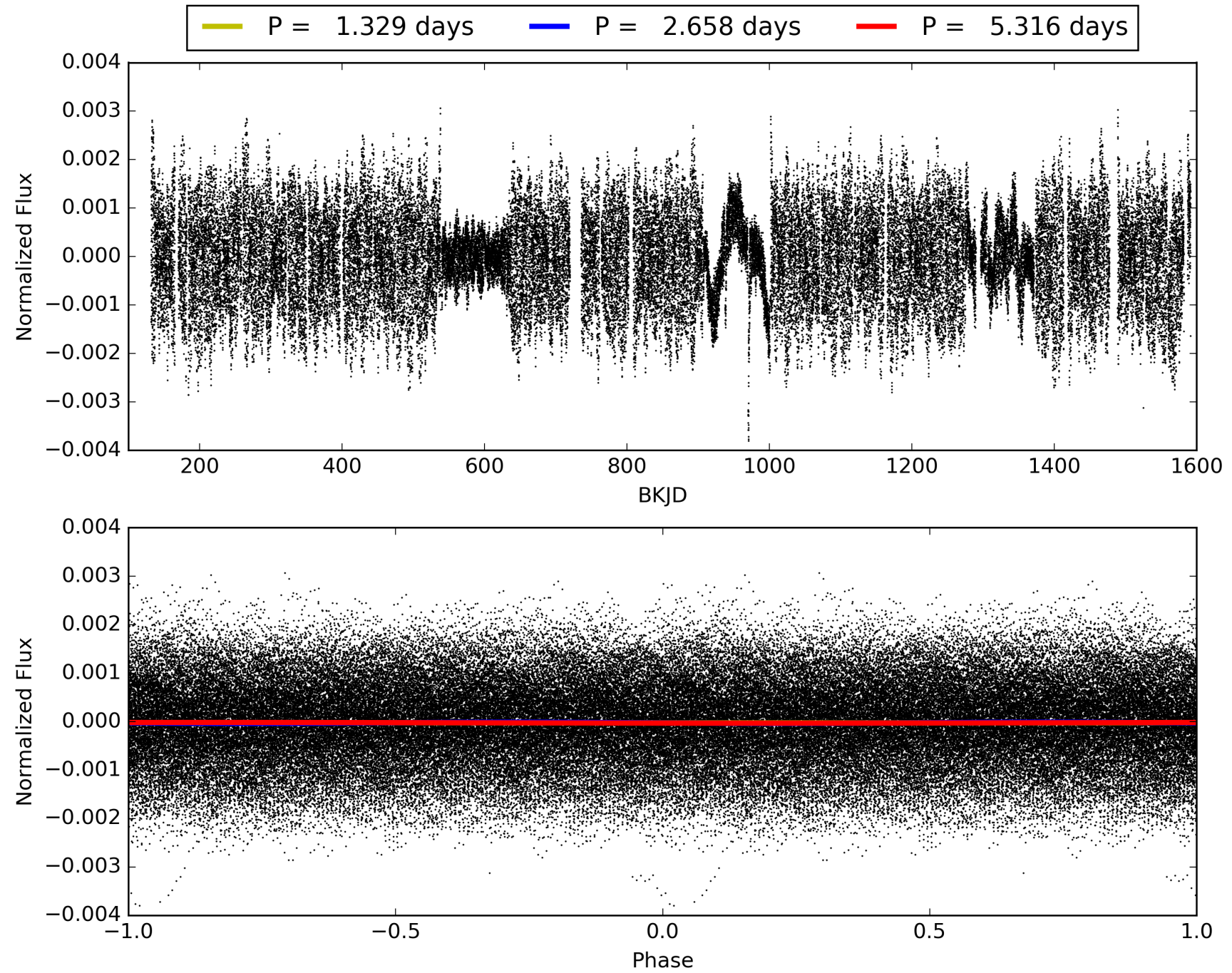
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.1% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.41e-25
RollingBand-fgt: 0.95 [459/483]
GhostDiagnostic-chr: 1.271
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.259 arcsec [0.94σ]
KicOffset-rm: 0.208 arcsec [0.66σ]
OotOffset-st: 2/4/4/5 [15]
KicOffset-st: 2/4/4/5 [15]
DiffImageQuality-fgm: 0.53 [8/15]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 006366512-01, PDC Light Curves

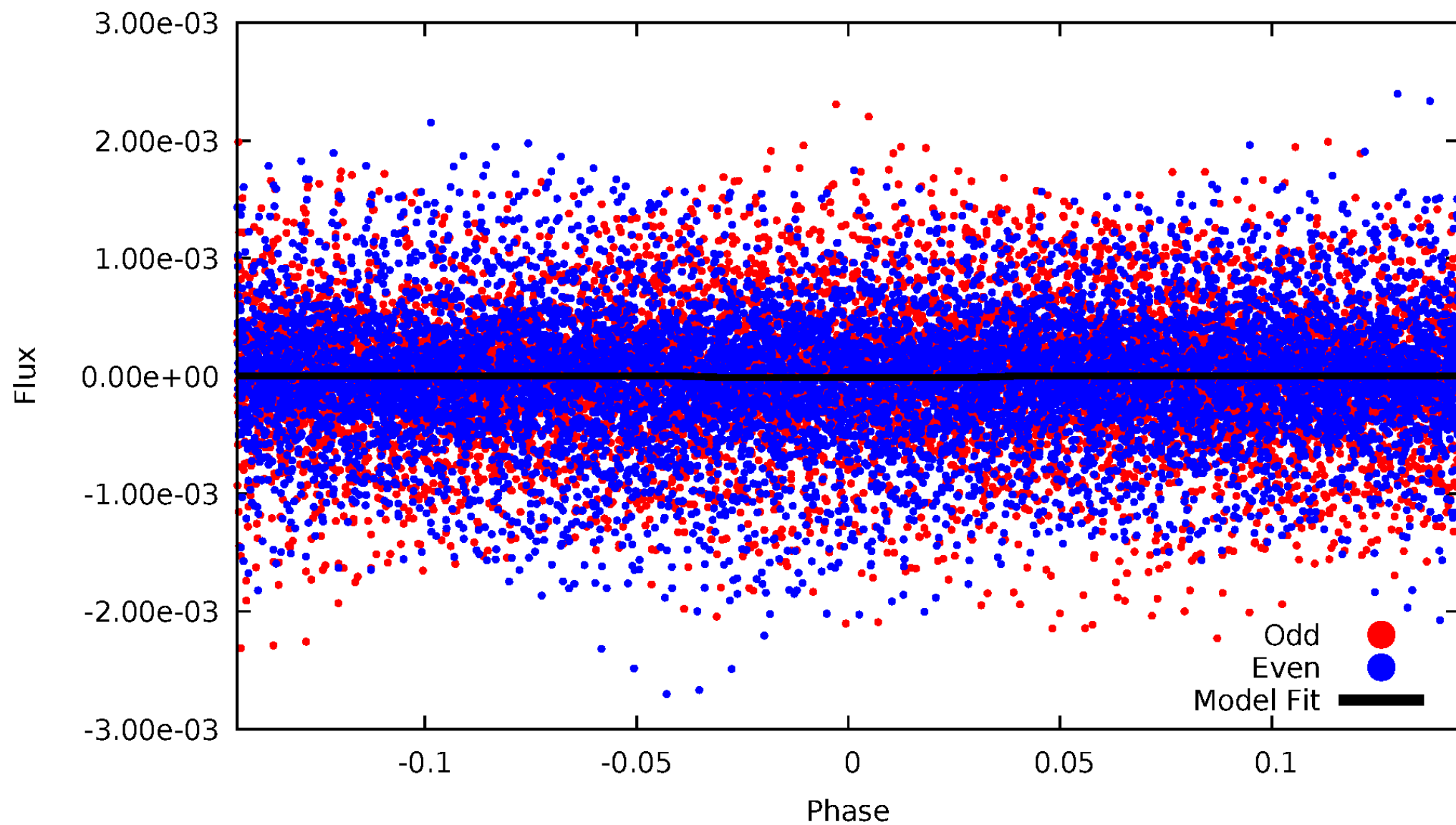


TCE 006366512-01



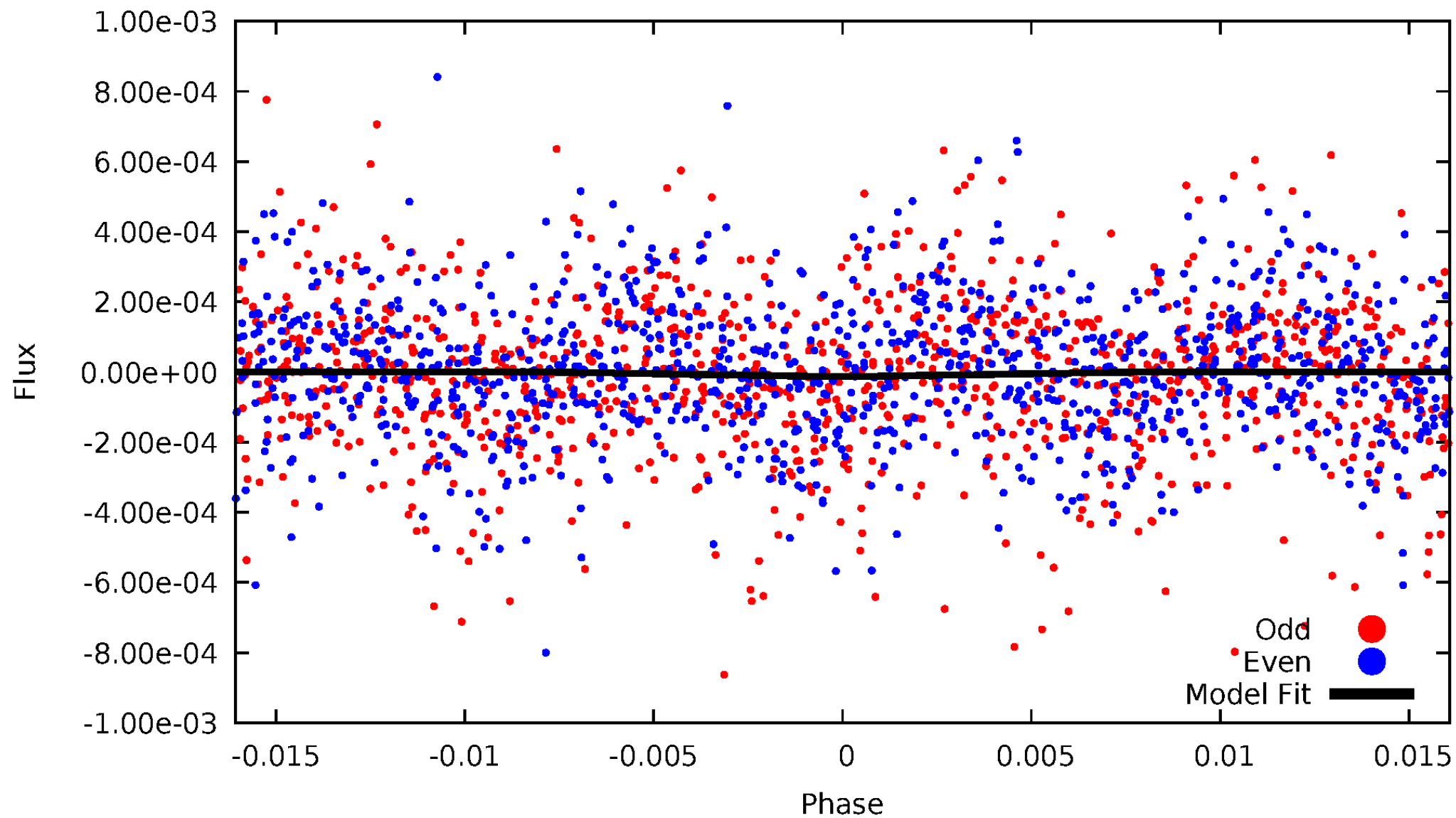
DV Odd/Even

TCE 006366512-01

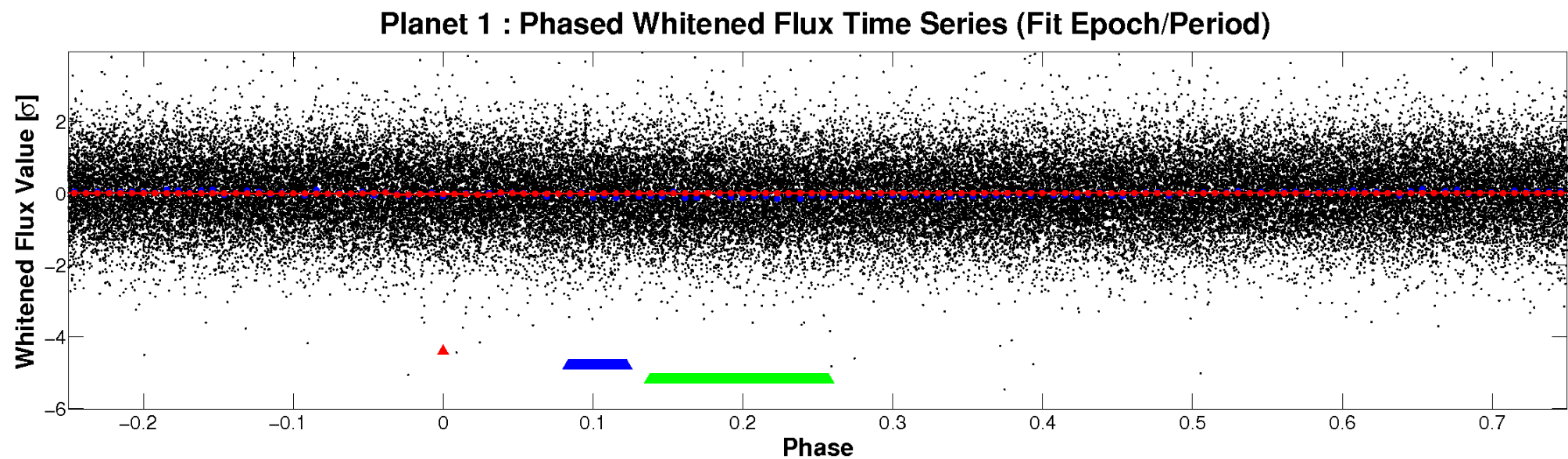
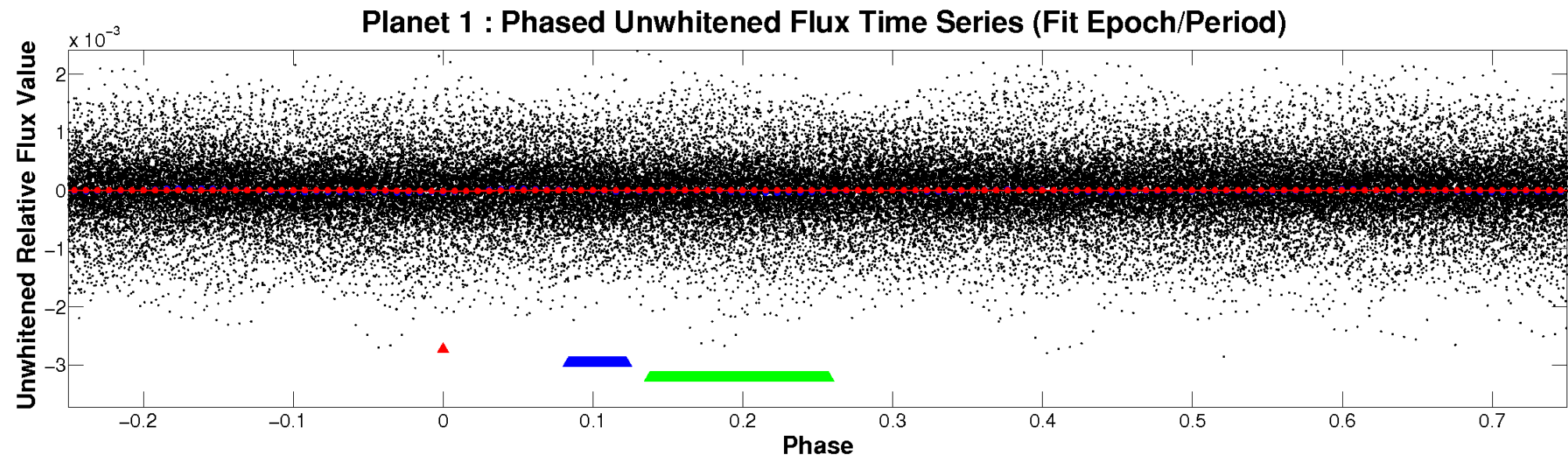


ALT Odd/Even

TCE 006366512-01

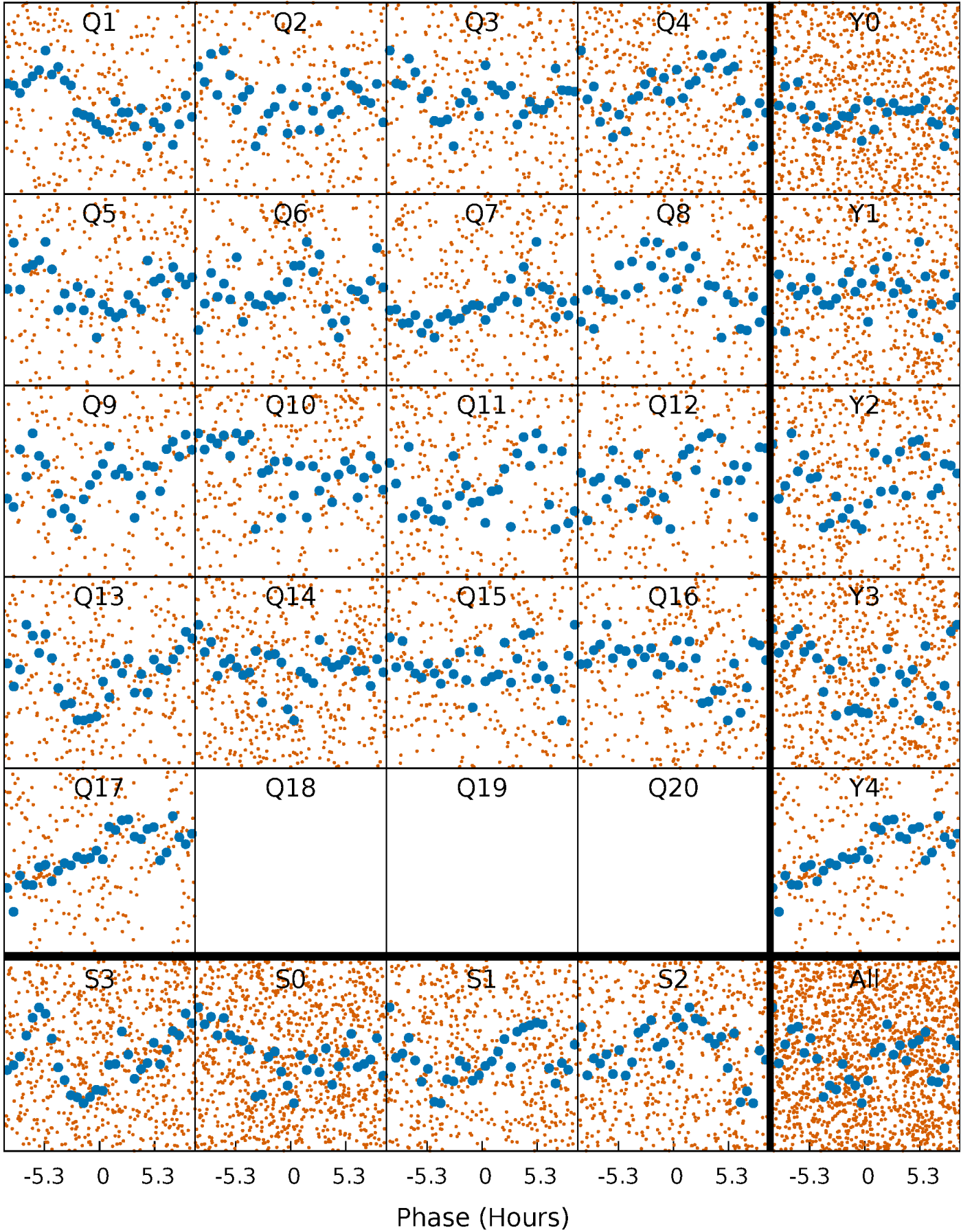


Non-Whitened Vs. Whitened Light Curve



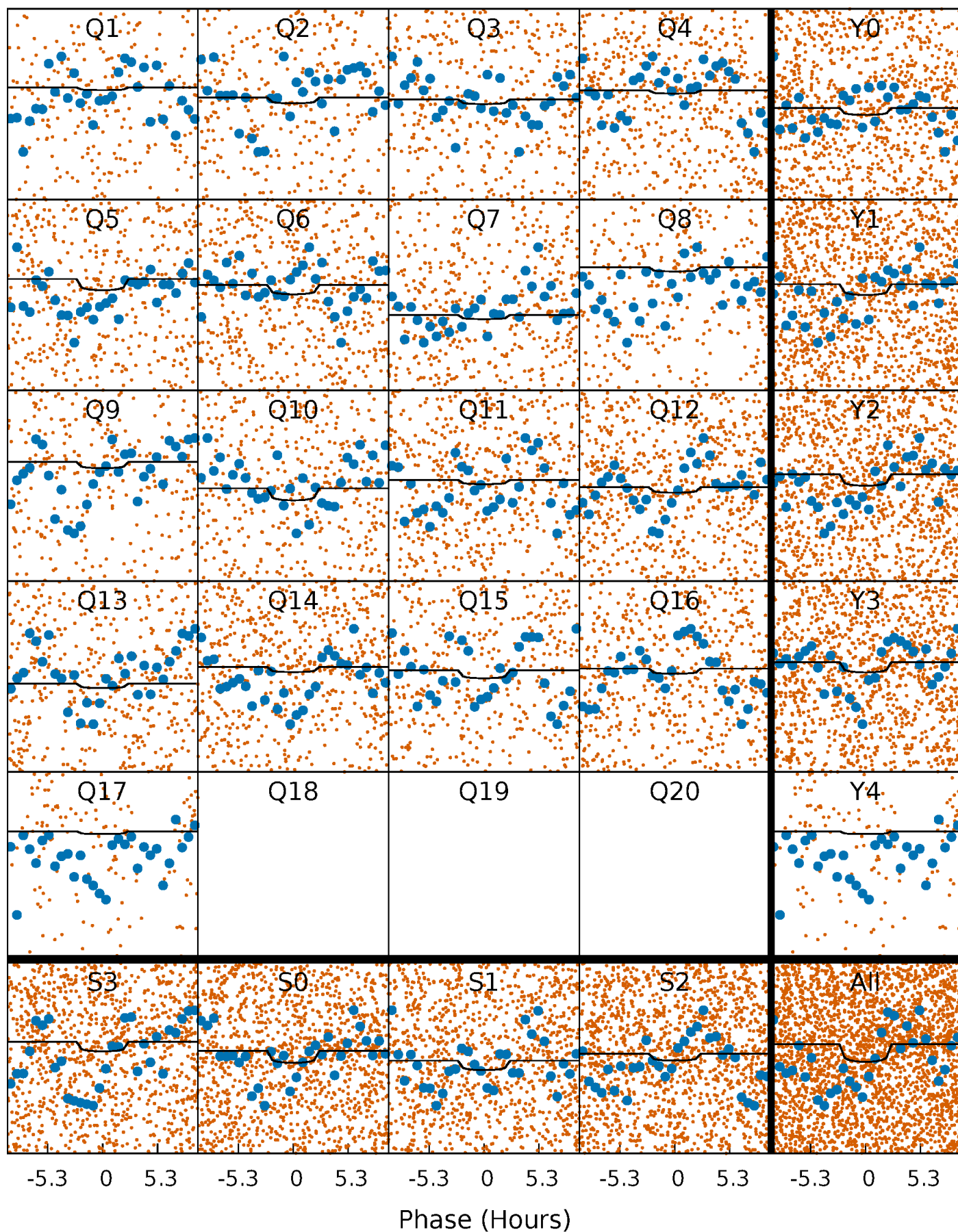
PDC Quarter-Phased Transit Curves

TCE 006366512-01 P= 2.658186 Days $T_0=132.910562$ (BKJD)



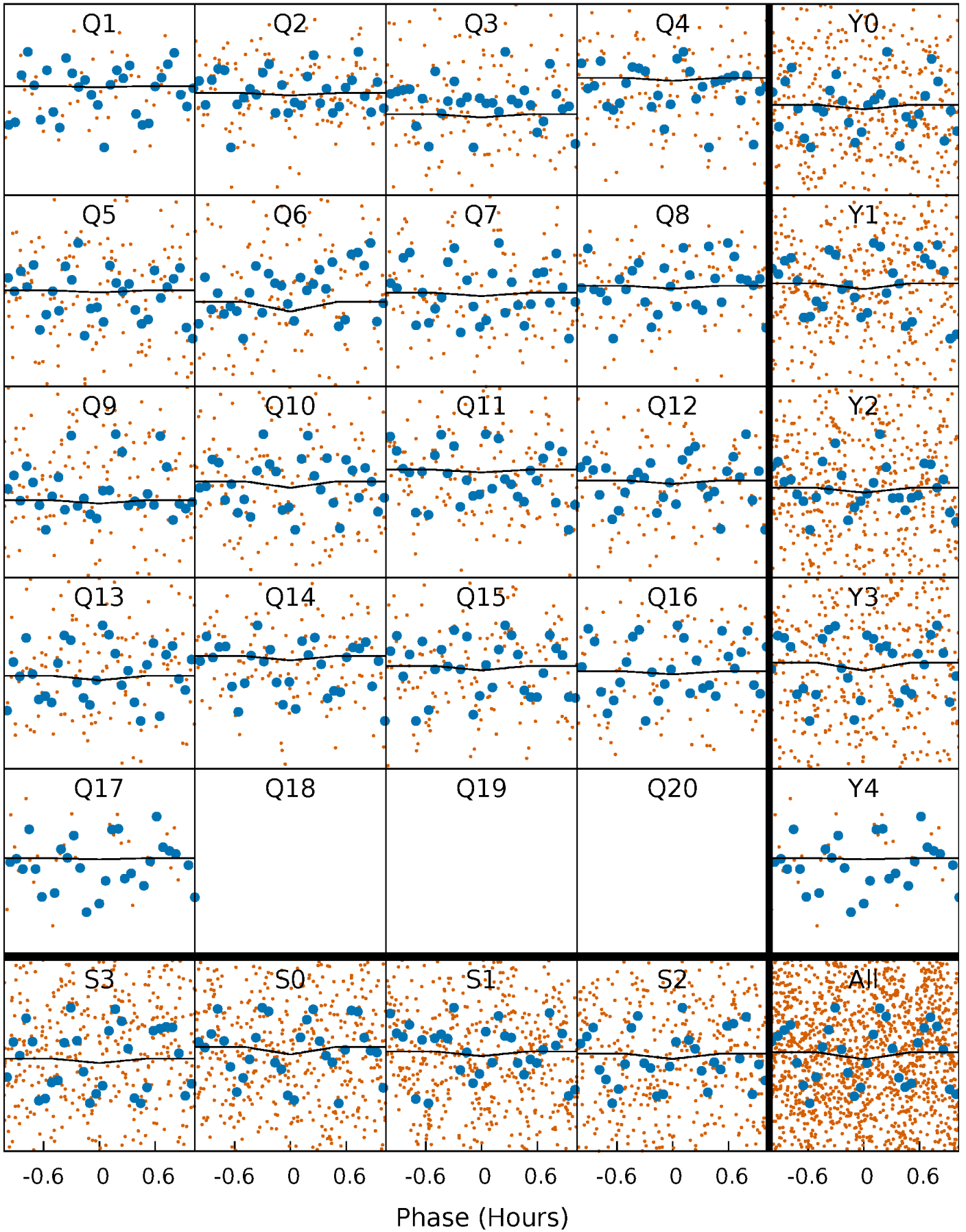
DV Quarter-Phased Transit Curves

TCE 006366512-01 P= 2.658186 Days $T_0=132.910562$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

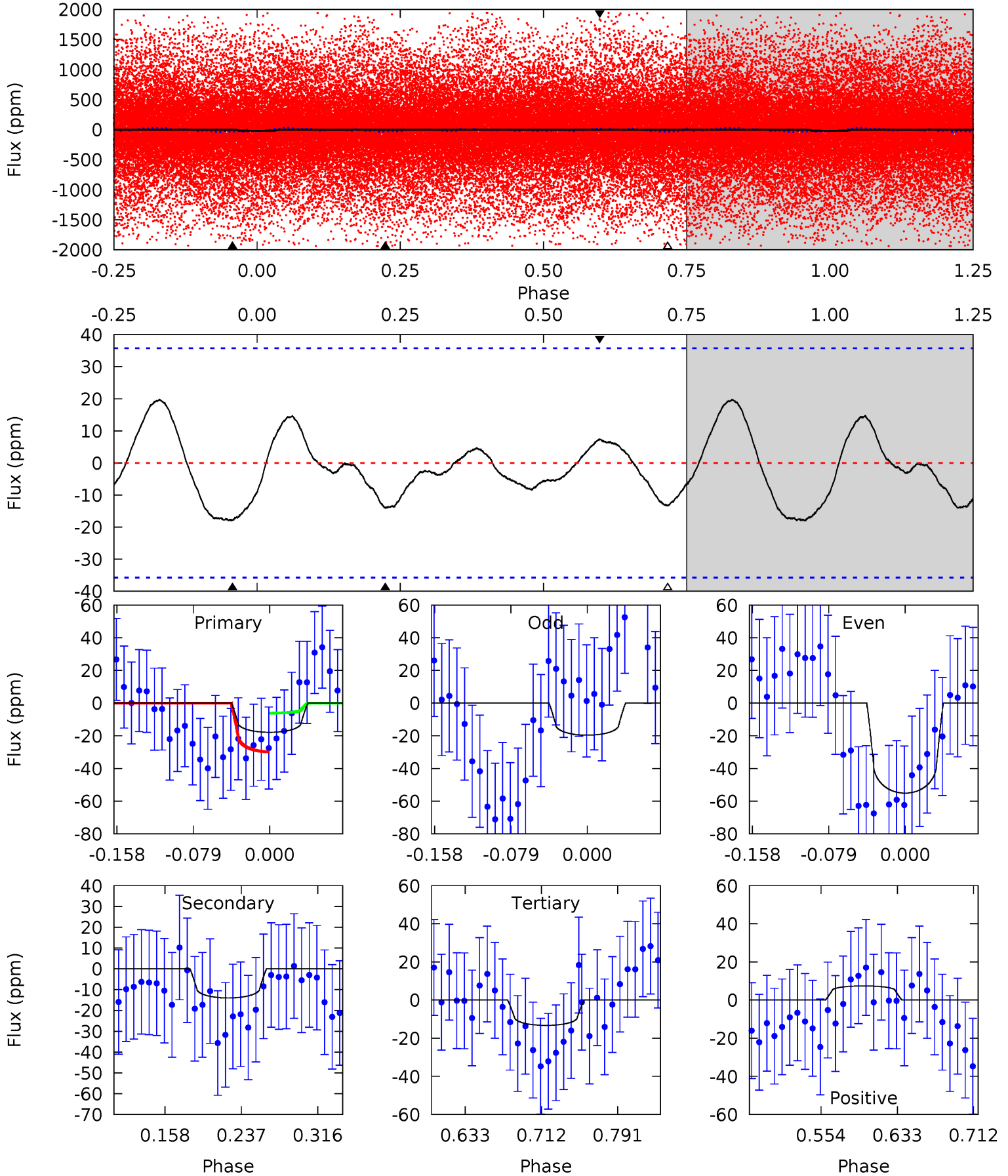
TCE 006366512-01 P= 2.658182 Days $T_0=132.935383$ (BKJD)



DV Model-Shift Uniqueness Test

006366512-01, P = 2.658186 Days, E = 130.252376 Days

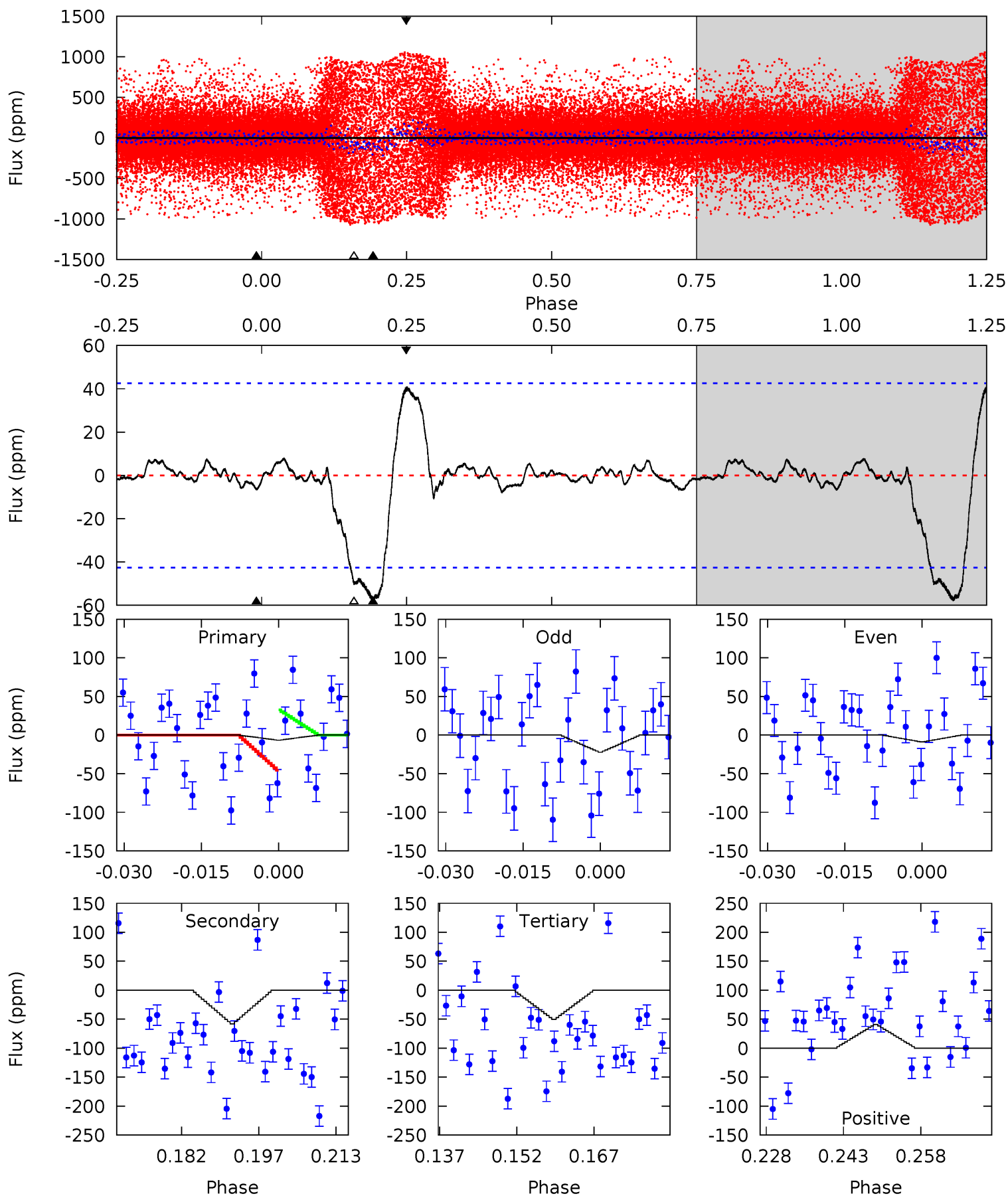
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 2.31 | 1.80 | 1.71 | 0.96 | 4.61 | 1.76 | 1.02 | 0.59 | 1.35 | 0.09 | 0.85 | 2.30 | 4.35 | 0.52 | 1.53 |



Alt Model-Shift Uniqueness Test

006366512-01, P = 2.658182 Days, E = 130.277201 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|-------|-------|------|
| 0.77 | 6.73 | 5.85 | 4.75 | 4.95 | 2.43 | 1.13 | -5.08 | -3.99 | 0.88 | 1.98 | 0.79 | -4.31 | 0.41 | 0.63 |



Stellar Parameters For KIC 006366512

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | $R (R_{\odot})$ | $M(M_{\odot})$ | $p_{\star} (\text{g}\cdot\text{cm}^{-3})$ |
|--------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------|---|
| | 6980^{+72}_{-93} | $4.128^{+0.090}_{-0.110}$ | $0.060^{+0.150}_{-0.150}$ | $1.751^{+0.304}_{-0.221}$ | $1.502^{+0.115}_{-0.104}$ | $0.394^{+0.164}_{-0.136}$ |
| | +1%/-1% | +2%/-3% | +250%/-250% | +17%/-13% | +8%/-7% | +42%/-34% |
| Source | SPE68 | SPE68 | SPE68 | DSEP | | |

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

Secondary Eclipse Parameters for KIC 006366512-01 / KOI

| Detrend | Depth (ppm) | $R_p (R_{\oplus})$ | $T_{max} (K)$ | $T_{obs} (K)$ | A_{obs} |
|---------|-------------|------------------------|----------------------|-------------------------|--------------------|
| DV | -14 ± 8 | $0.66^{+0.42}_{-0.35}$ | 2756^{+106}_{-108} | 7207^{+5651}_{-2015} | 30^{+122}_{-22} |
| Alt. | -58 ± 9 | $0.75^{+0.39}_{-0.36}$ | 2751^{+117}_{-96} | 10767^{+9754}_{-2636} | 105^{+295}_{-60} |

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 $A_{obs} \gg 1.0$

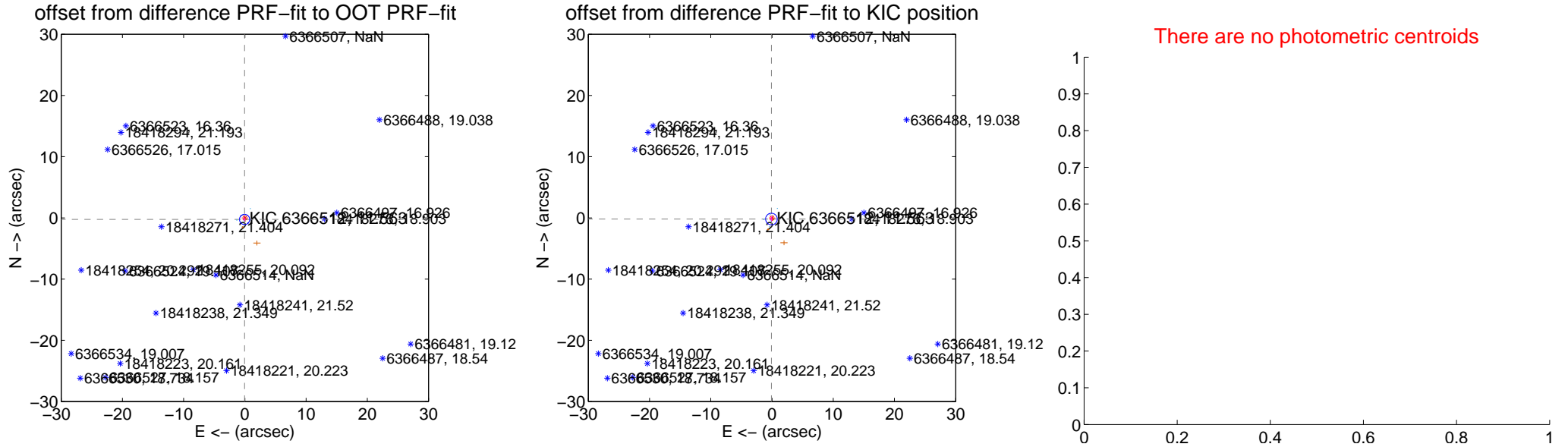
DV Centroid Data

Supplemental centroid analysis for 006366512-01. **Kepler magnitude: 11.56.** Transit SNR 2.49

There are 8 quarters with good PRF difference image offsets

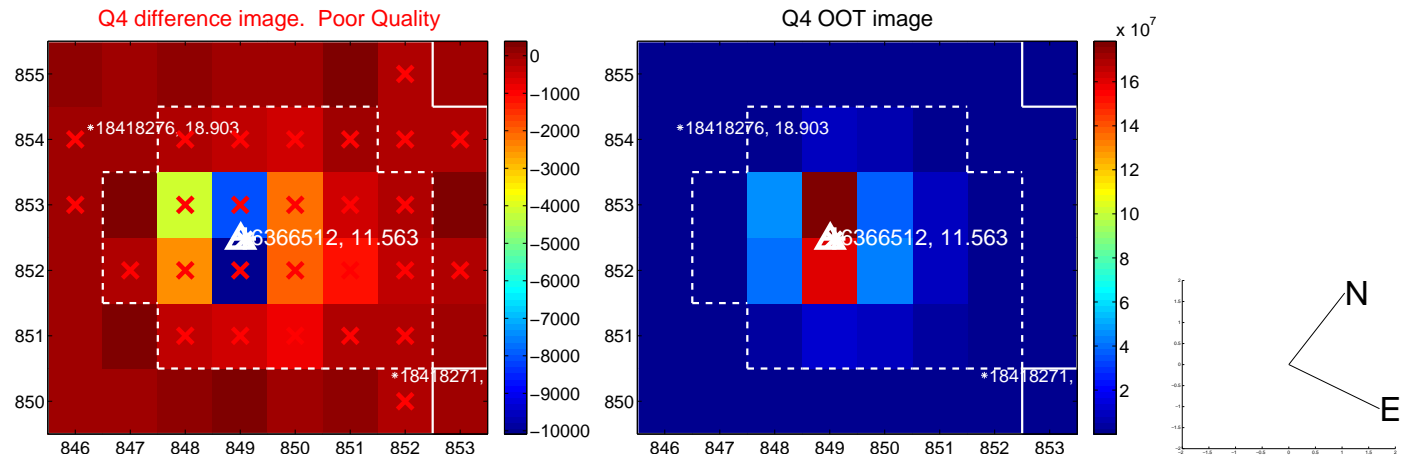
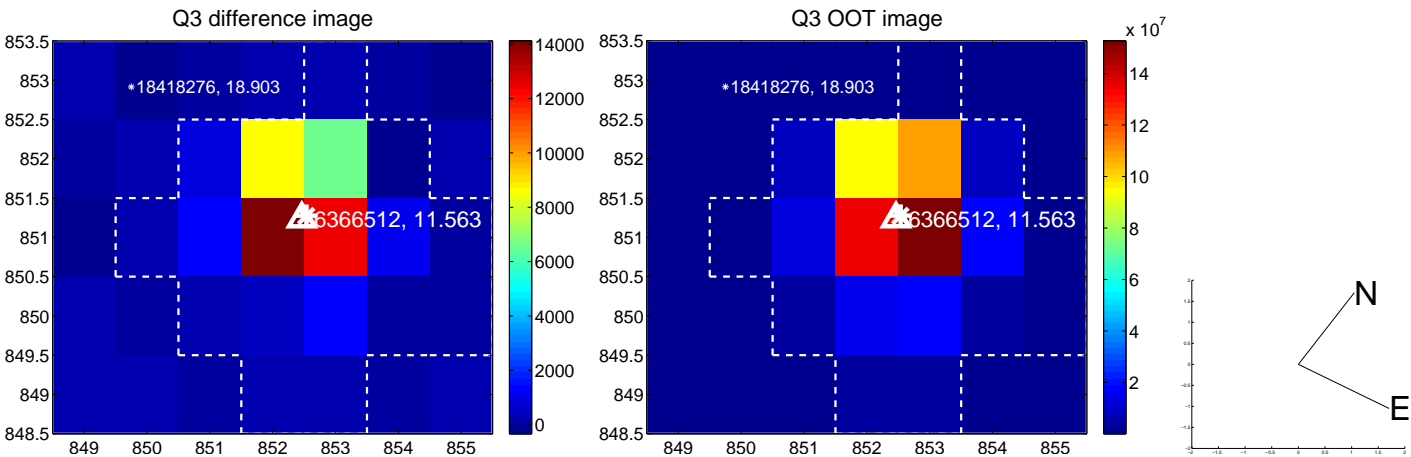
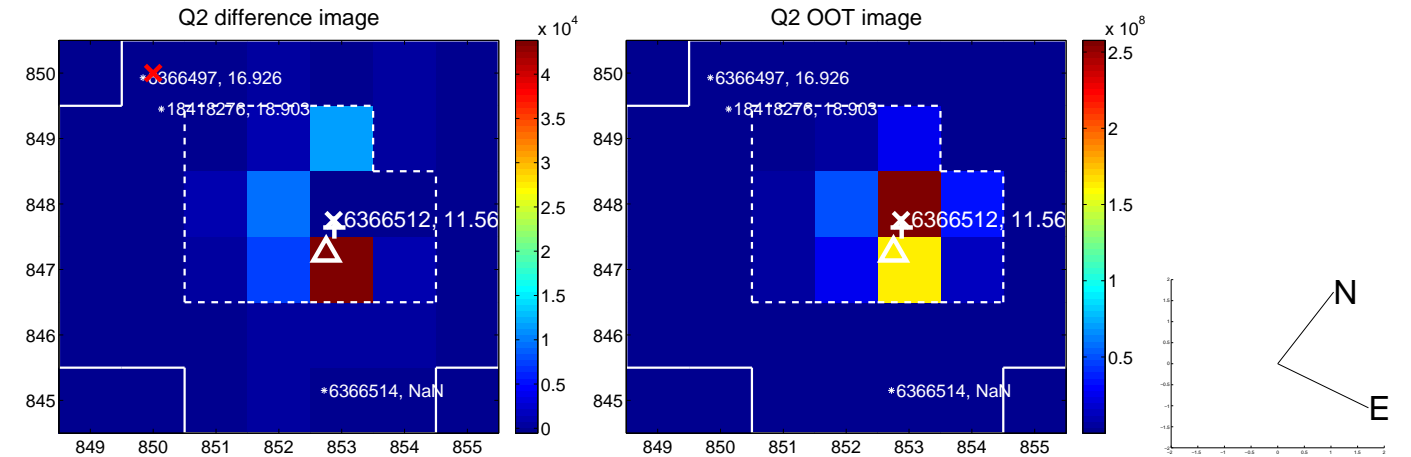
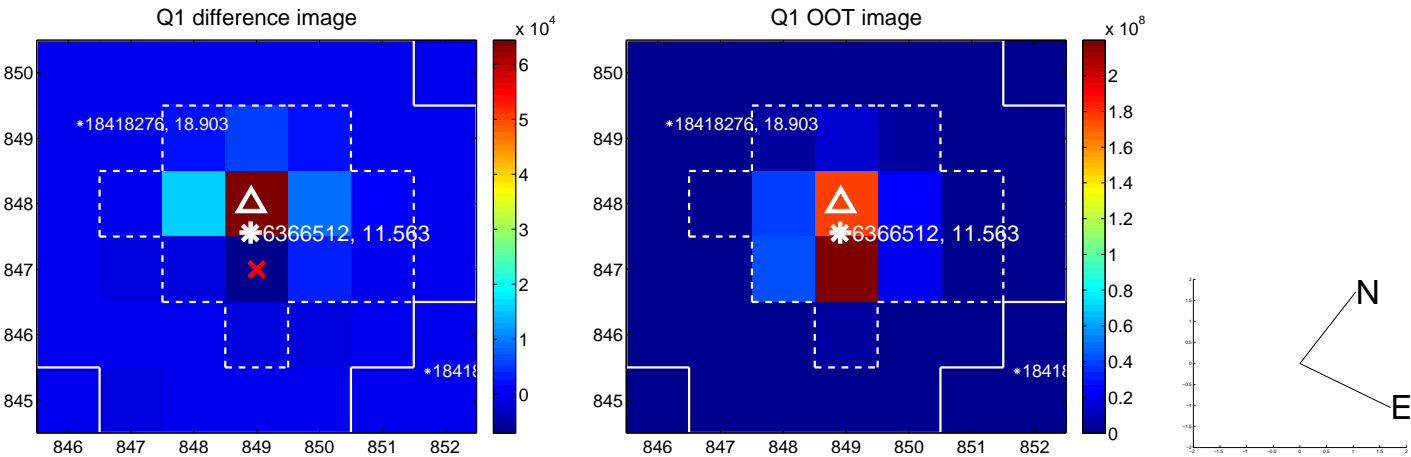
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

| | Distance in arcsec | Distance / σ | Δ RA | Δ Dec |
|---|--------------------|---------------------|-------------------|--------------------|
| PRF-fit source offset from OOT | 0.259 ± 0.277 | 0.94 | 0.048 ± 0.183 | -0.254 ± 0.289 |
| PRF-fit source offset from KIC position | 0.208 ± 0.317 | 0.66 | 0.090 ± 0.203 | -0.187 ± 0.360 |
| photometric centroid source offset | — | — | — | — |

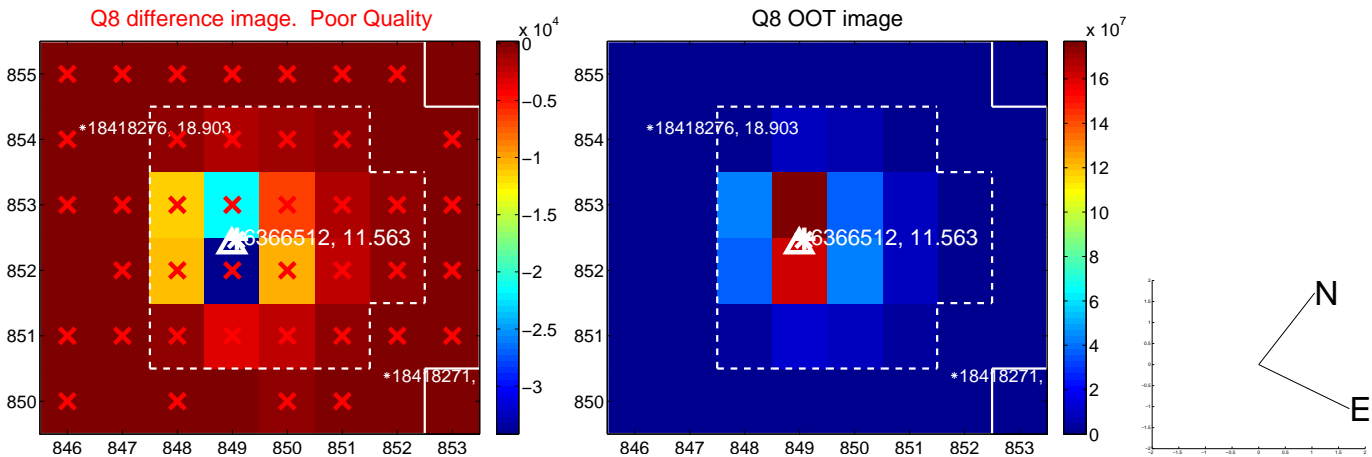
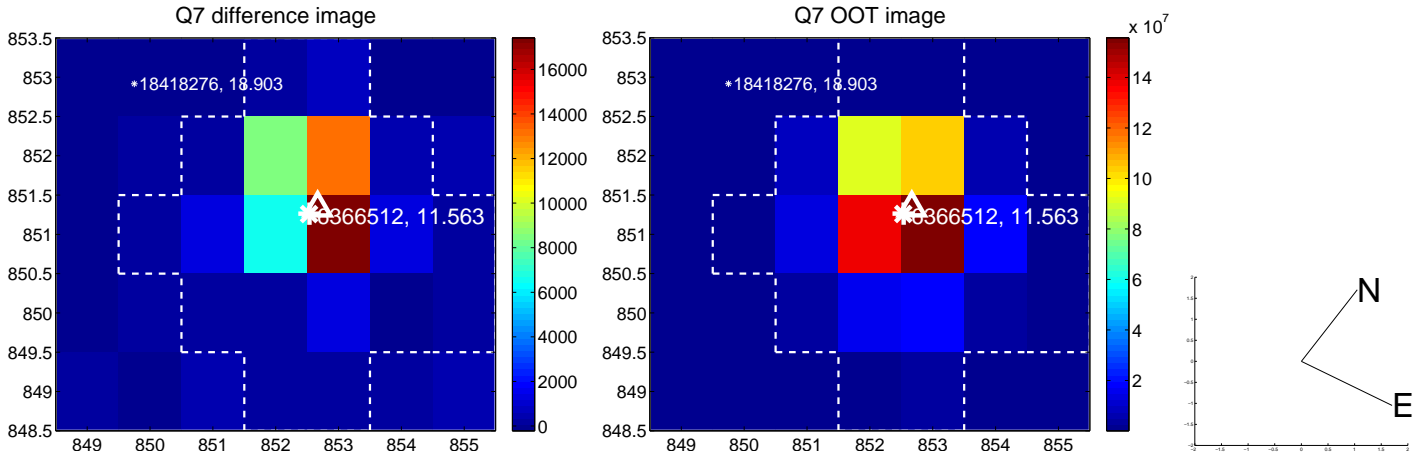
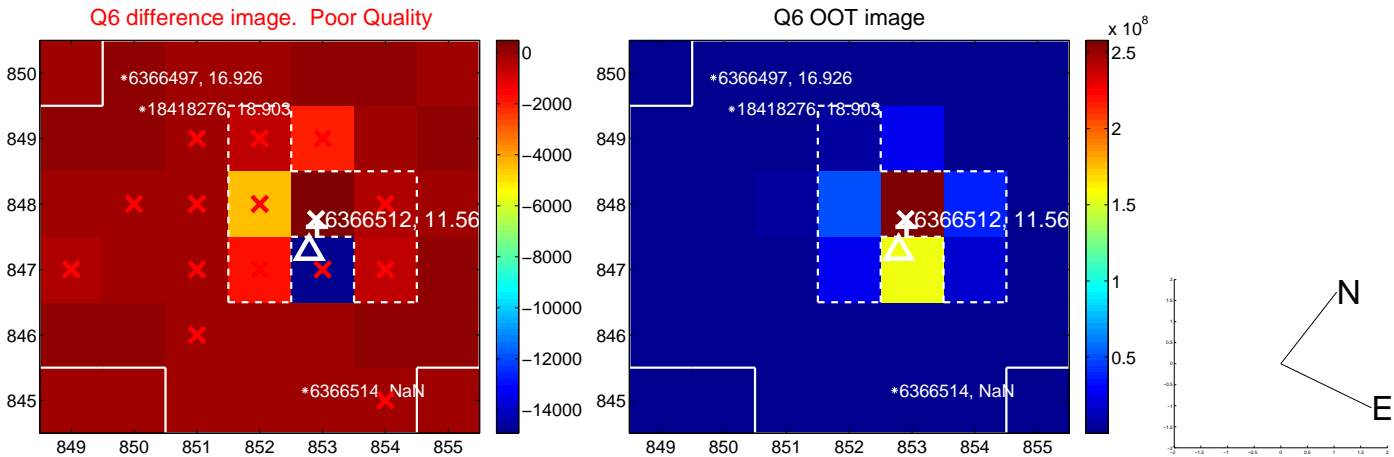
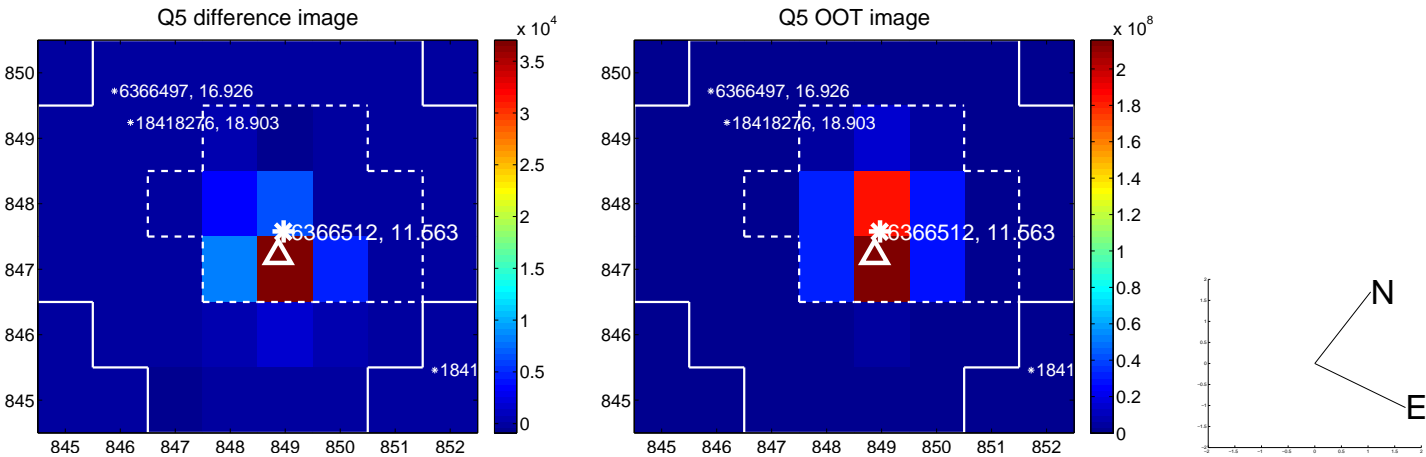


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

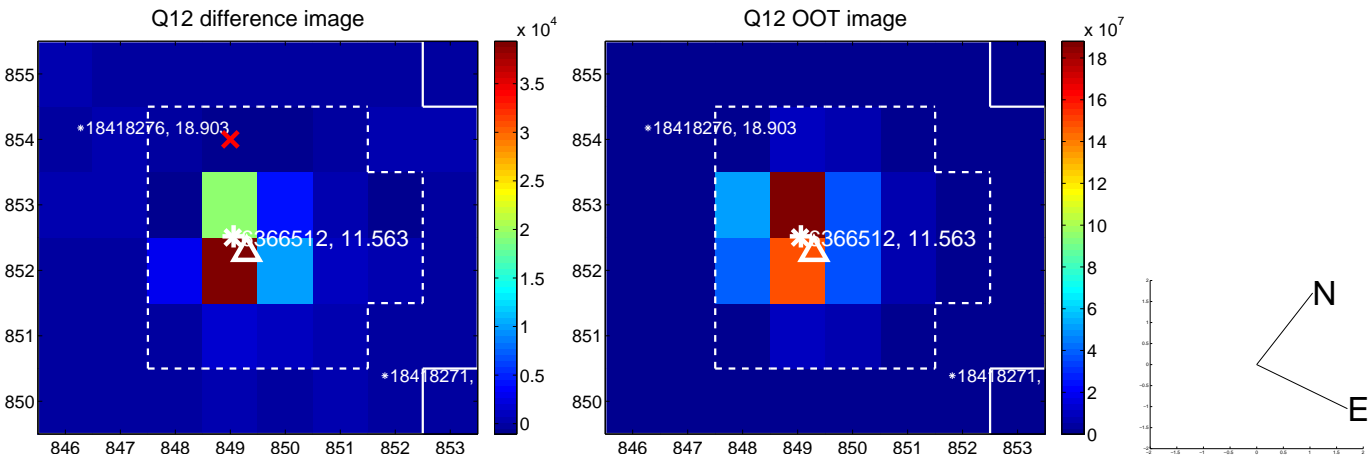
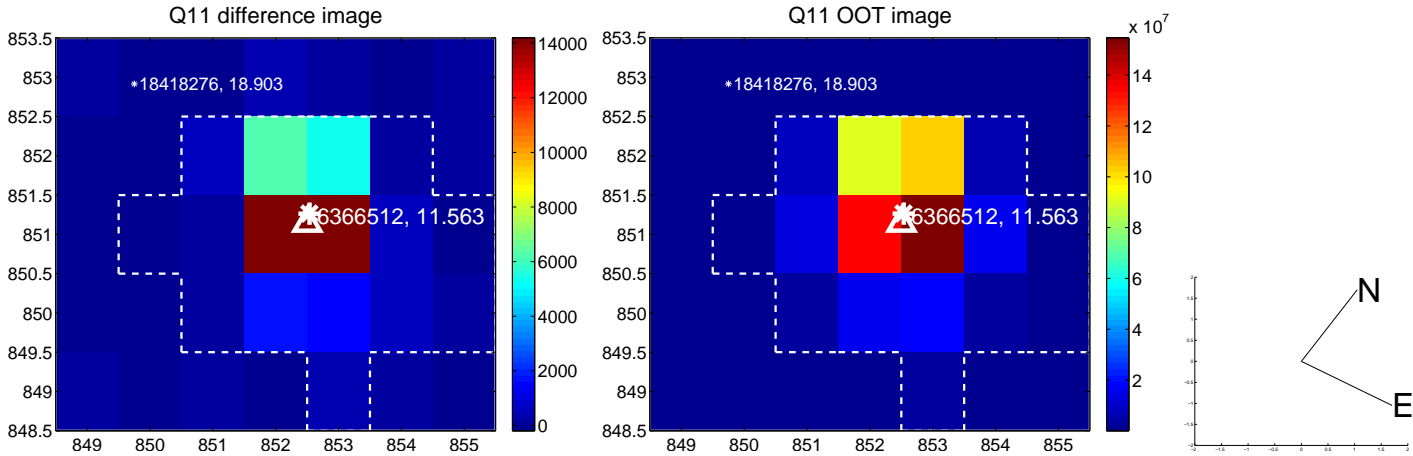
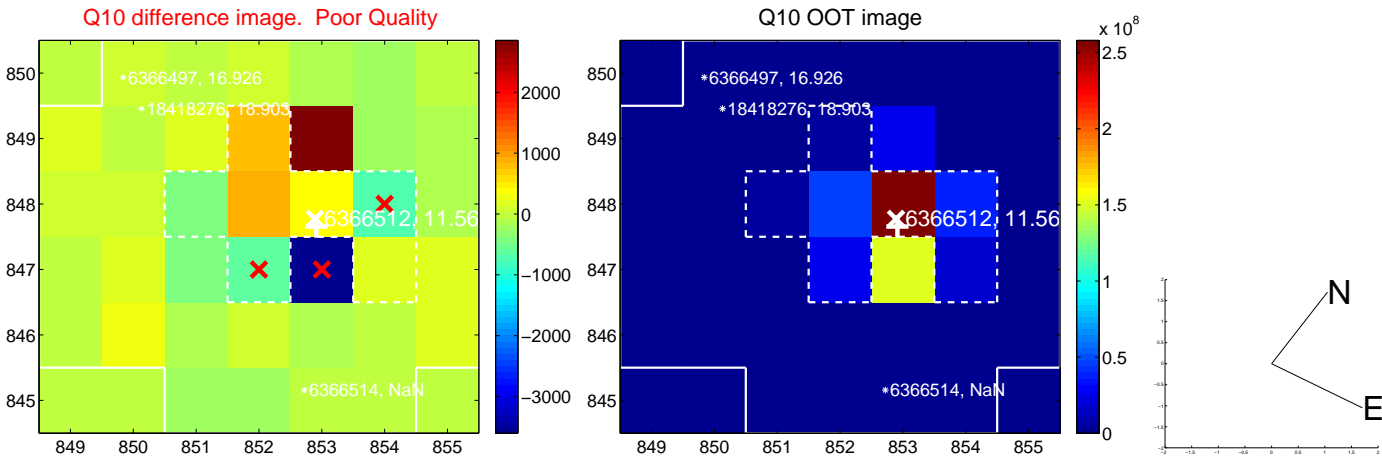
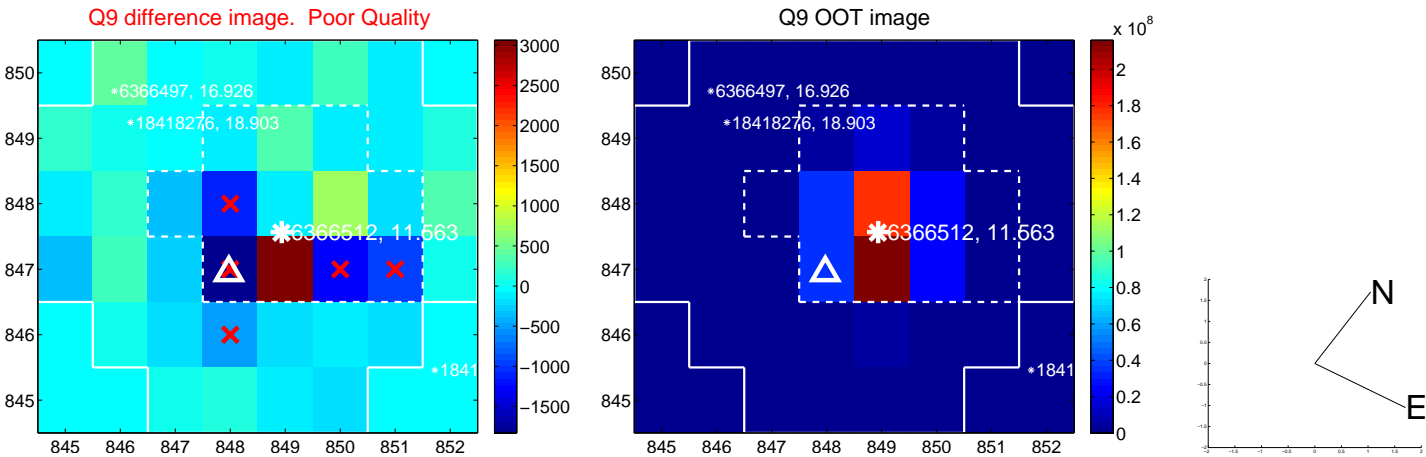
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



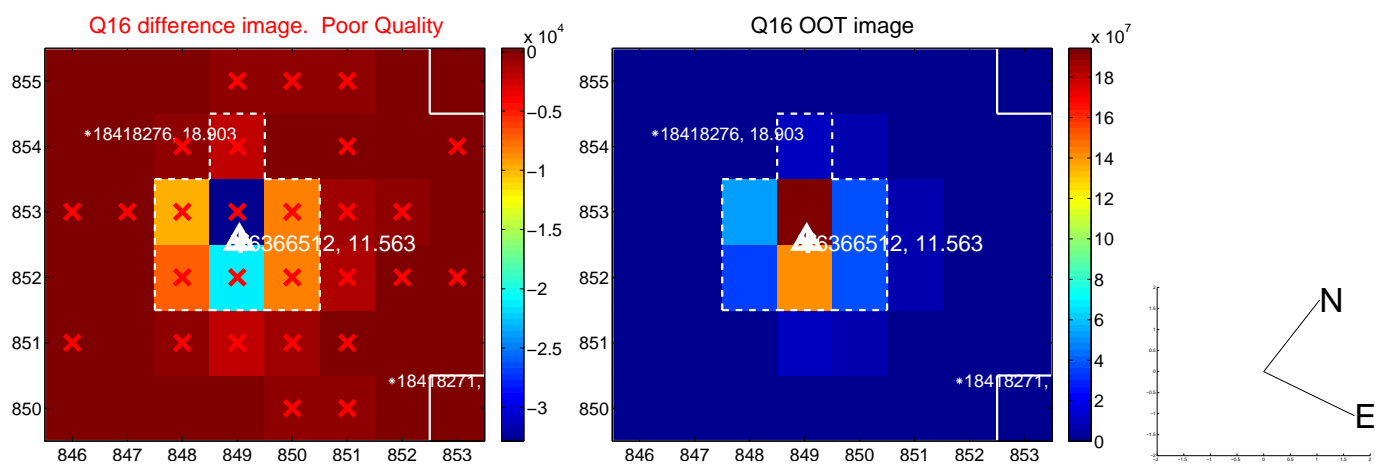
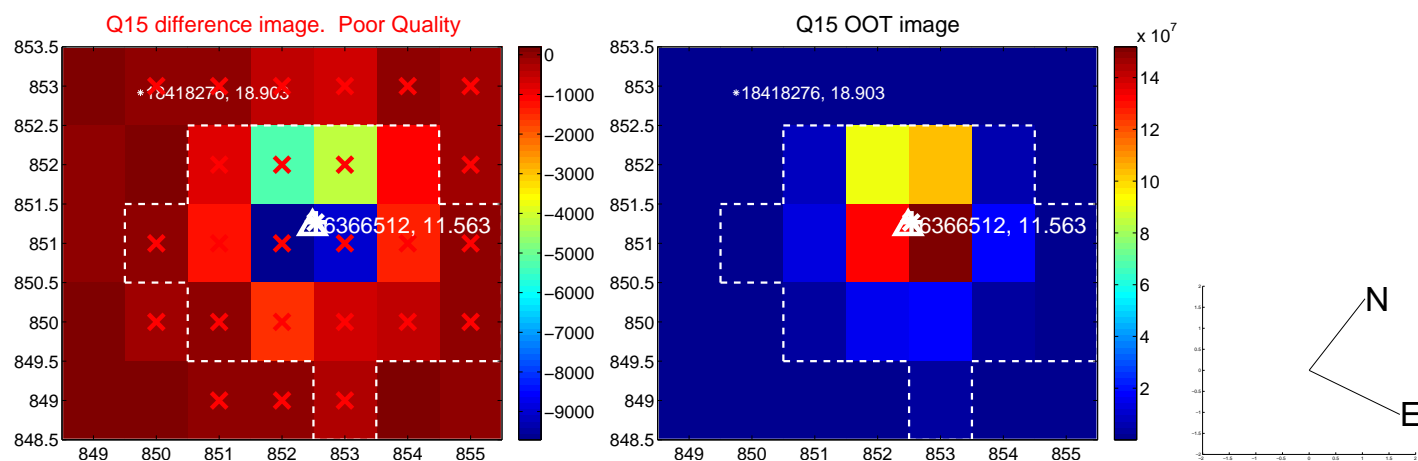
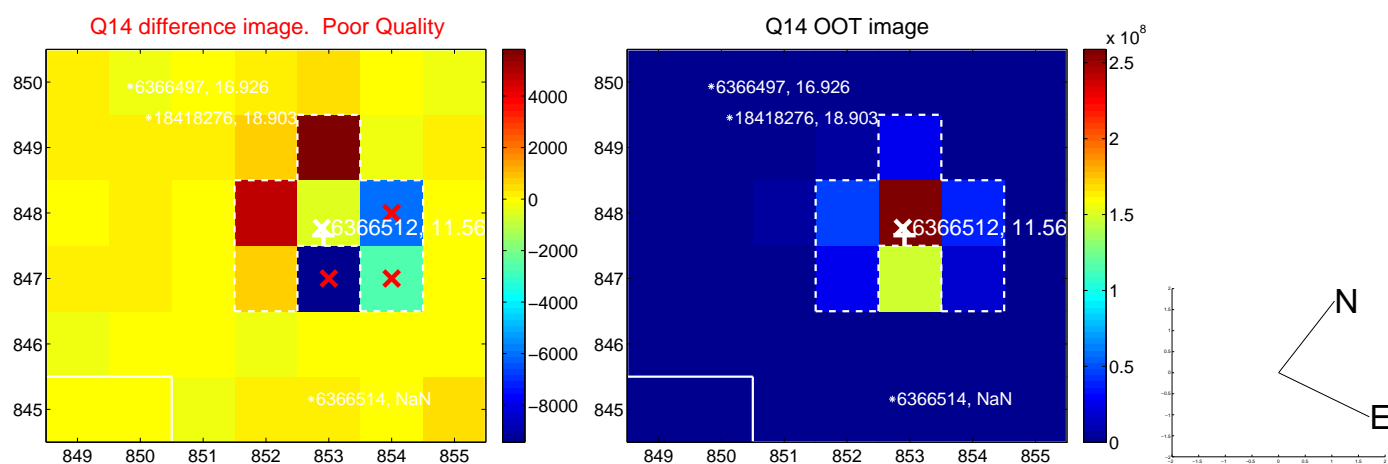
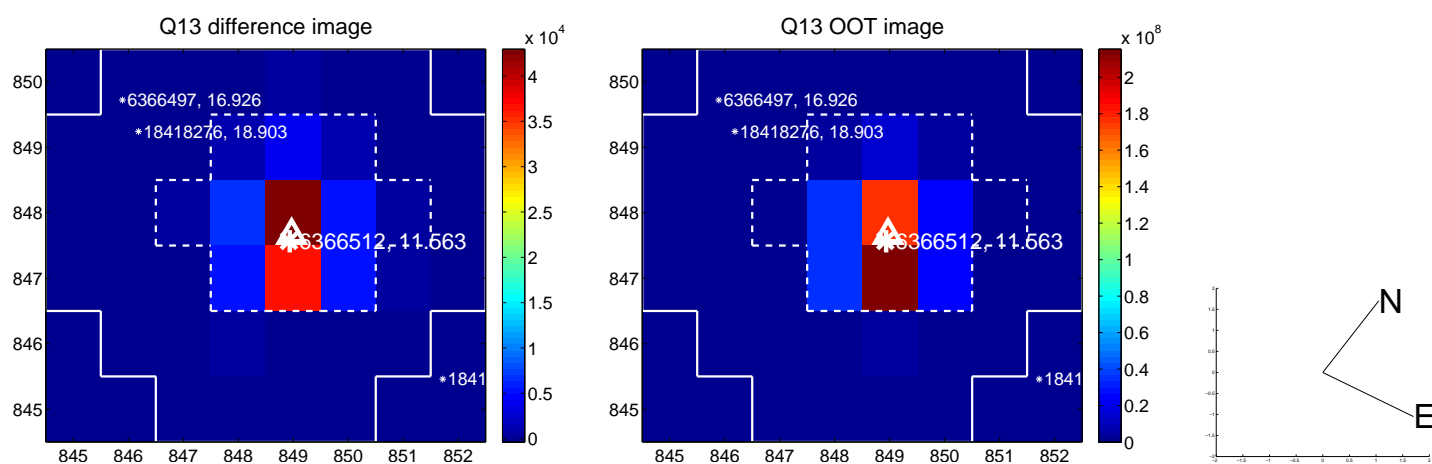
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



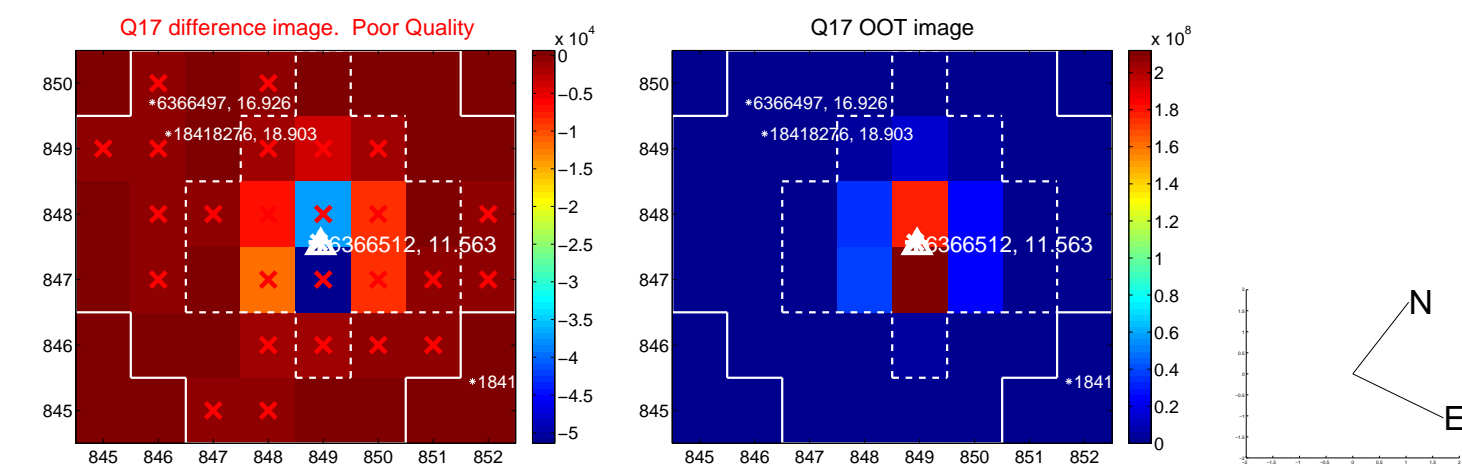
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



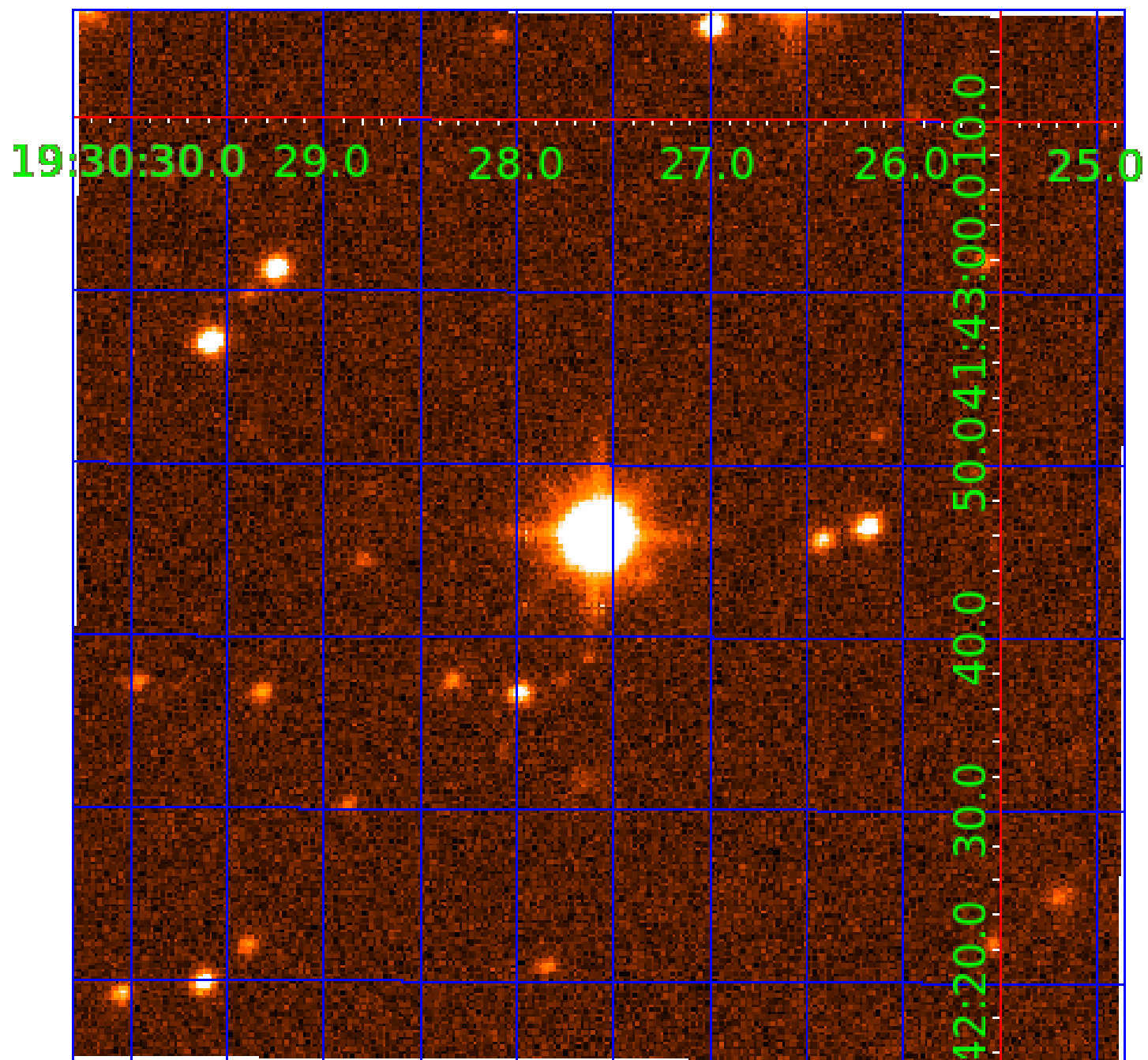
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 006366512

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|-----|-----|-----------------------------|-----------------|------------------------|------------------------|
| 006366512-01 | OBS | No | 2.658186 | 132.910562 | 12.7 | 4.605 | 8.6 | 2.5 | 1.75 | 6980 | 0.64 | 3524.19 |
| 006366512-02 | OBS | No | 2.658374 | 133.132714 | 21.7 | 1.484 | 8.1 | 2.0 | 1.75 | 6980 | 0.87 | 3523.86 |
| 006366512-03 | OBS | No | 2.658764 | 133.277202 | 13.4 | 1.742 | 8.1 | 2.3 | 1.75 | 6980 | 0.74 | 3523.17 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|--|
| 006366512-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT |
| 006366512-02 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD |
| 006366512-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD |

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

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

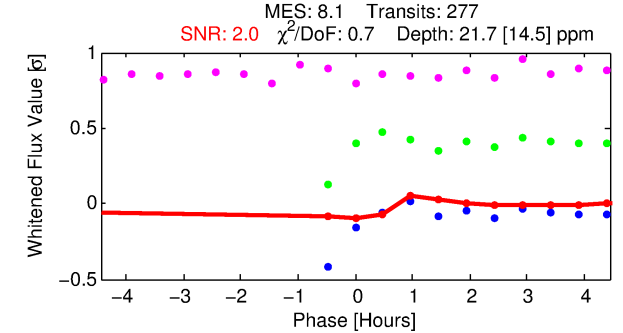
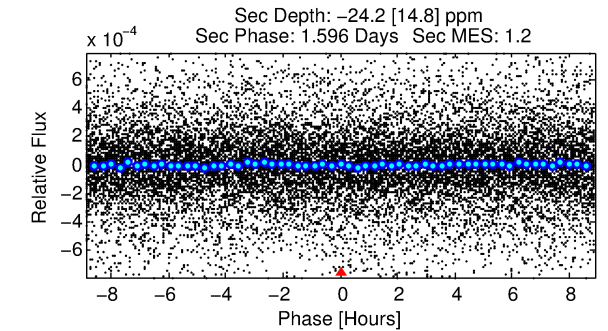
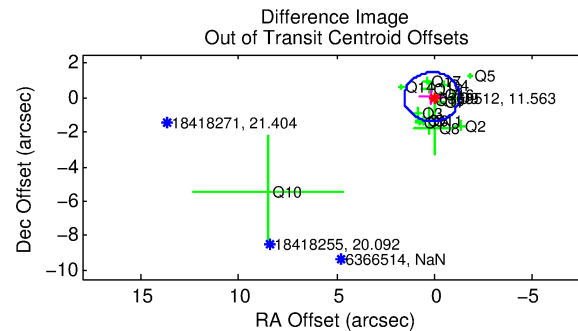
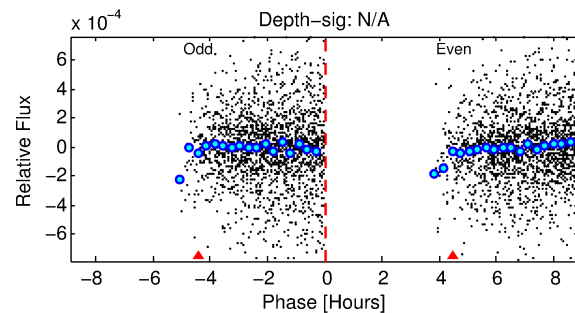
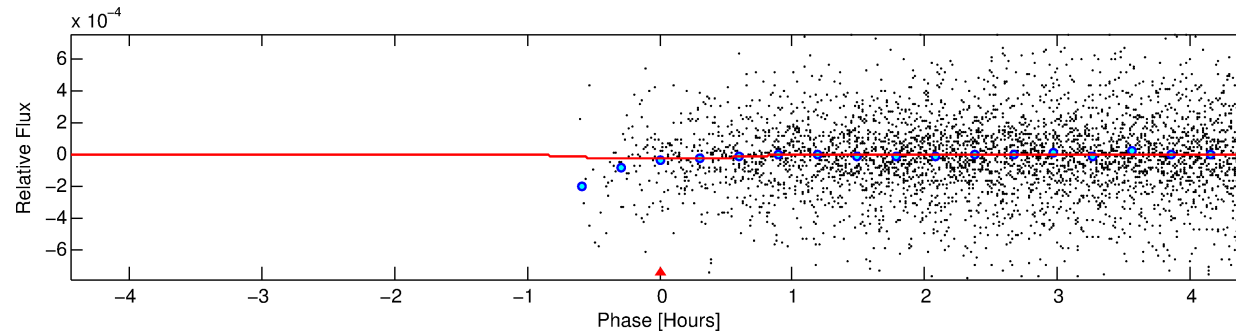
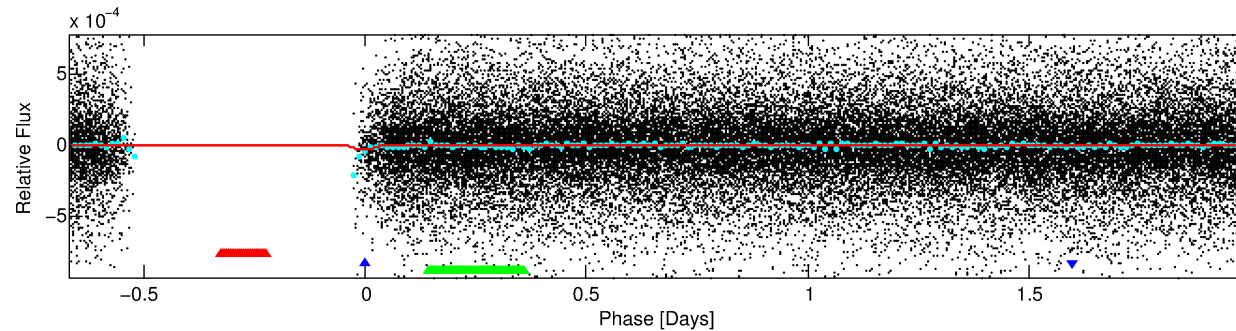
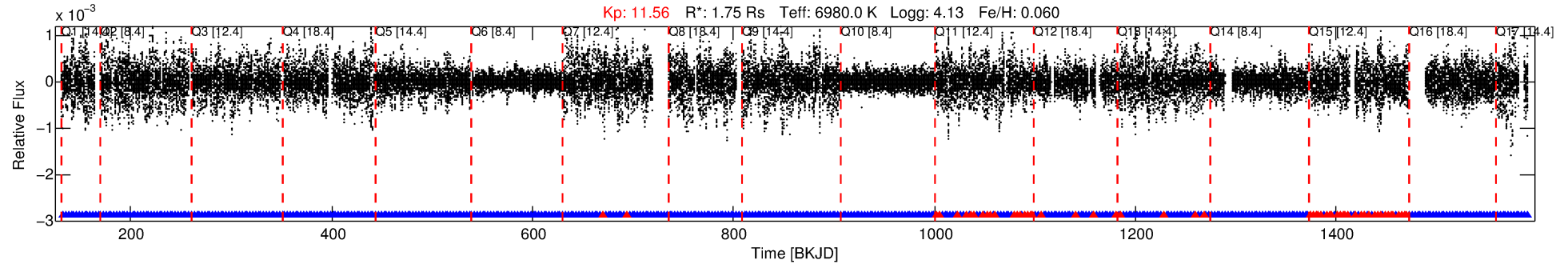
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006366512-02

No Significant Match Found

DV One-Page Summary

KIC: 6366512 Candidate: 2 of 3 Period: 2.658 d



DV Fit Results:

Period = 2.65837 [0.00004] d
Epoch = 133.1327 [0.0084] BKJD
Rp/R* = 0.0046 [0.0023]
a/R* = 10.36 [22.49]
b = 0.66 [1.85]
Seff = 3523.86 [745.44]
Teq = 1965 [104] K
Rp = 0.87 [0.47] Re
a = 0.0430 [0.0062] AU
Ag = N/A
Teffp = N/A

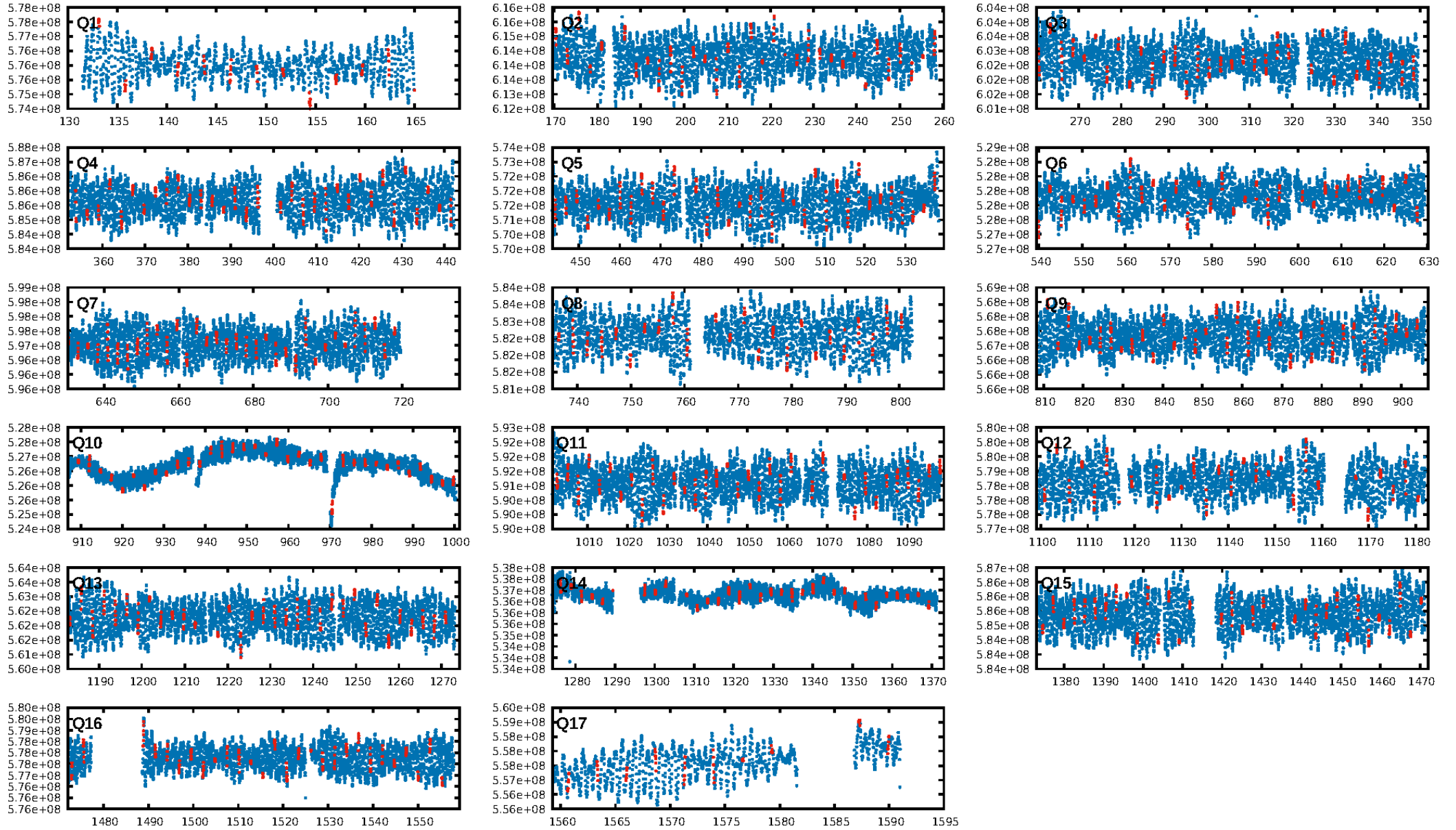
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00σ]
LongPeriod-sig: 0.3% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.58e-22
RollingBand-fgt: 0.79 [212/267]
GhostDiagnostic-chr: 0.4811
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.143 arcsec [0.30σ]
KicOffset-rm: 0.168 arcsec [0.39σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
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DiffImageOverlap-fno: 0.18 [3/17]

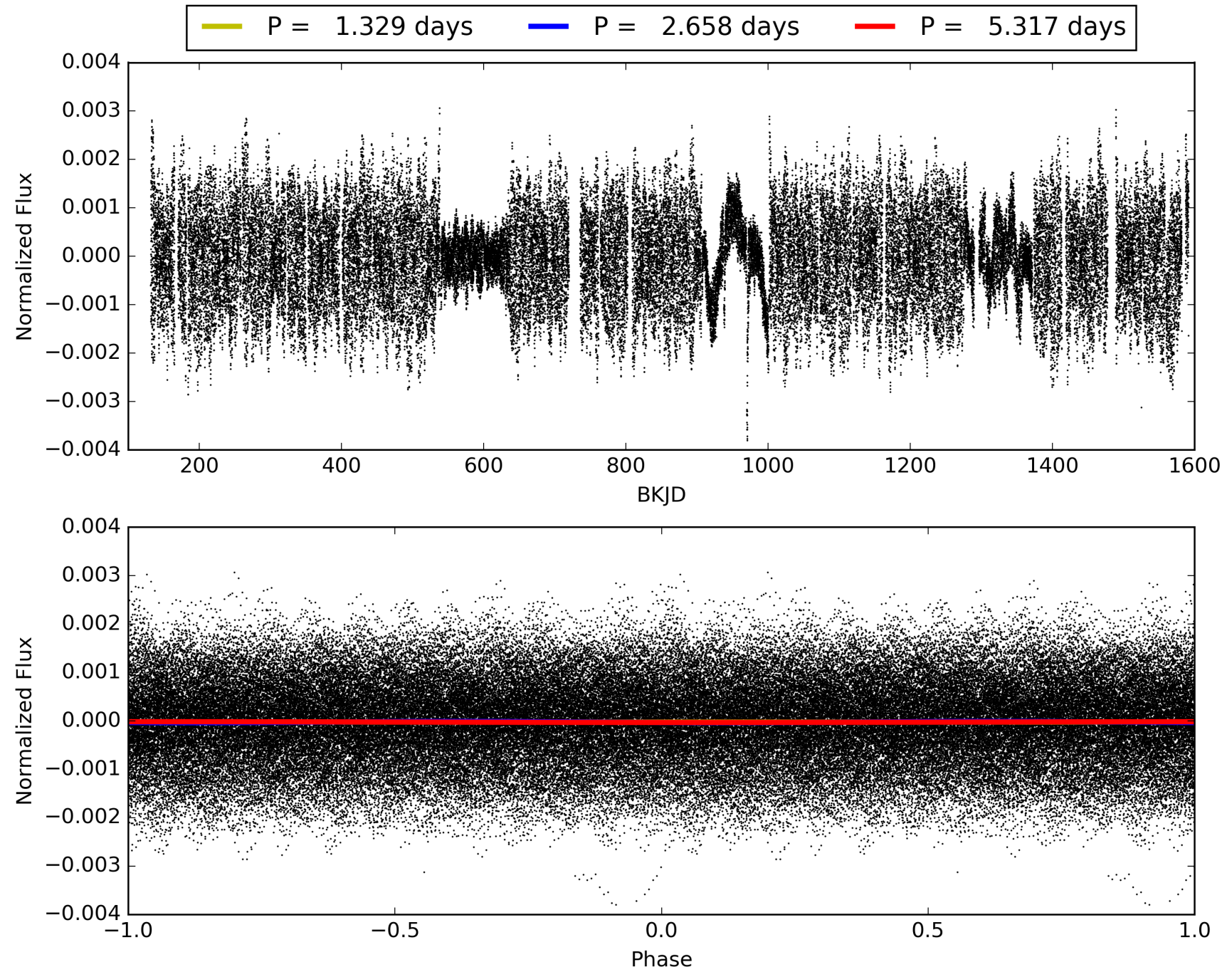
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 03:40:37 Z

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

TCE 006366512-02, PDC Light Curves

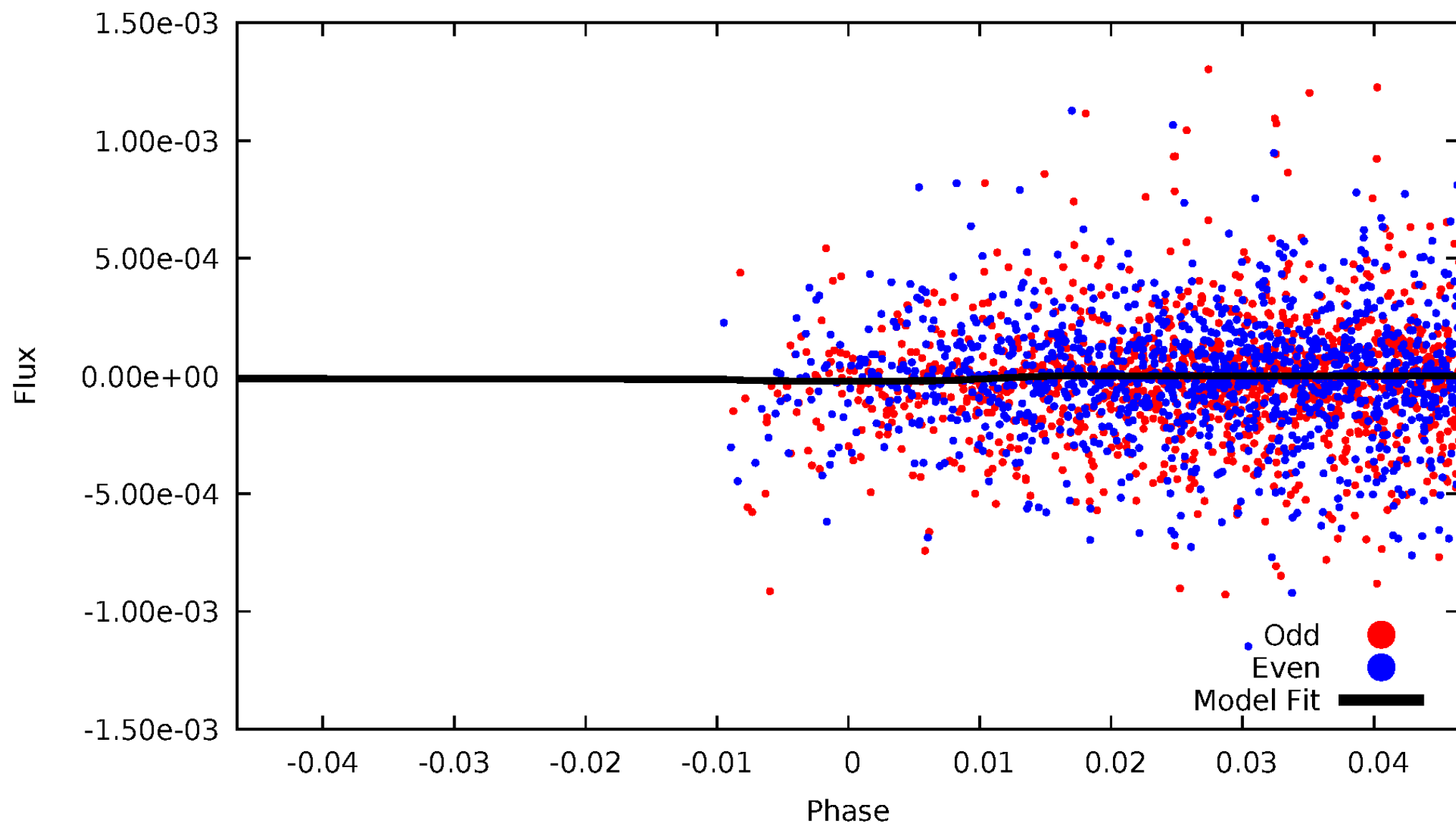


TCE 006366512-02



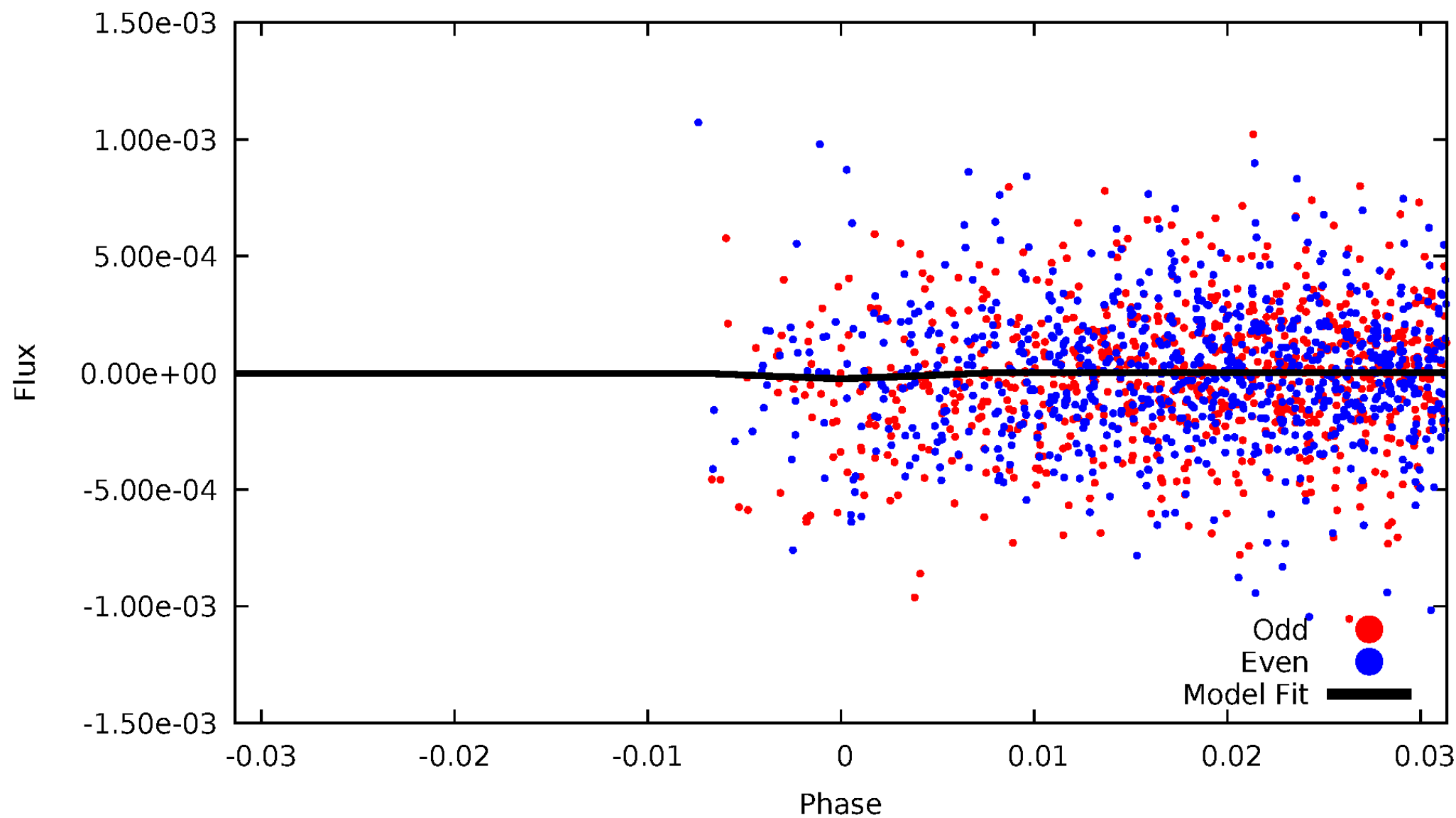
DV Odd/Even

TCE 006366512-02



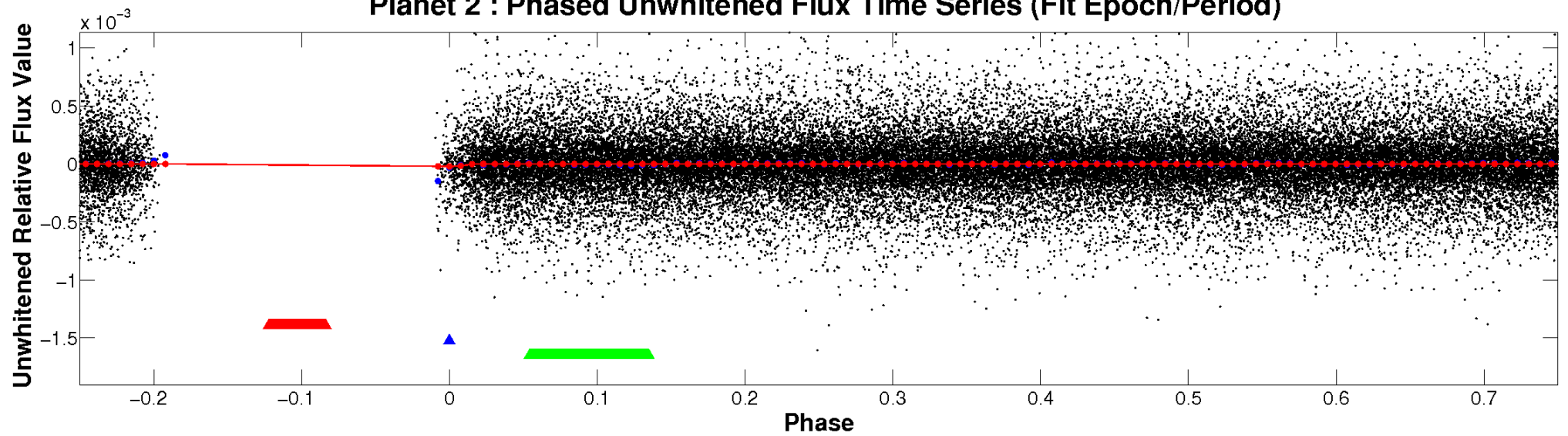
ALT Odd/Even

TCE 006366512-02

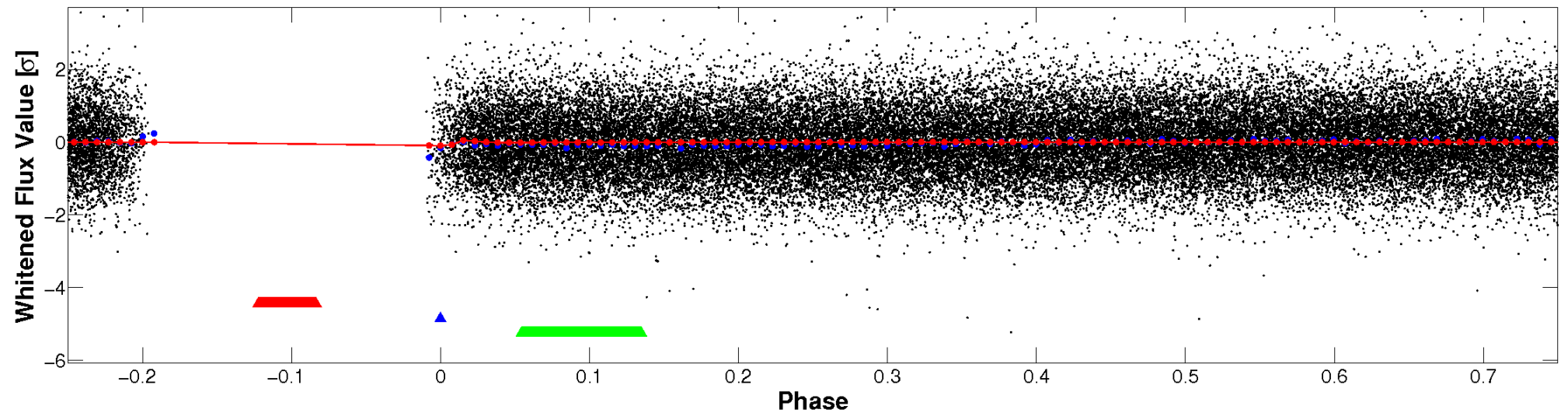


Non-Whitened Vs. Whitened Light Curve

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

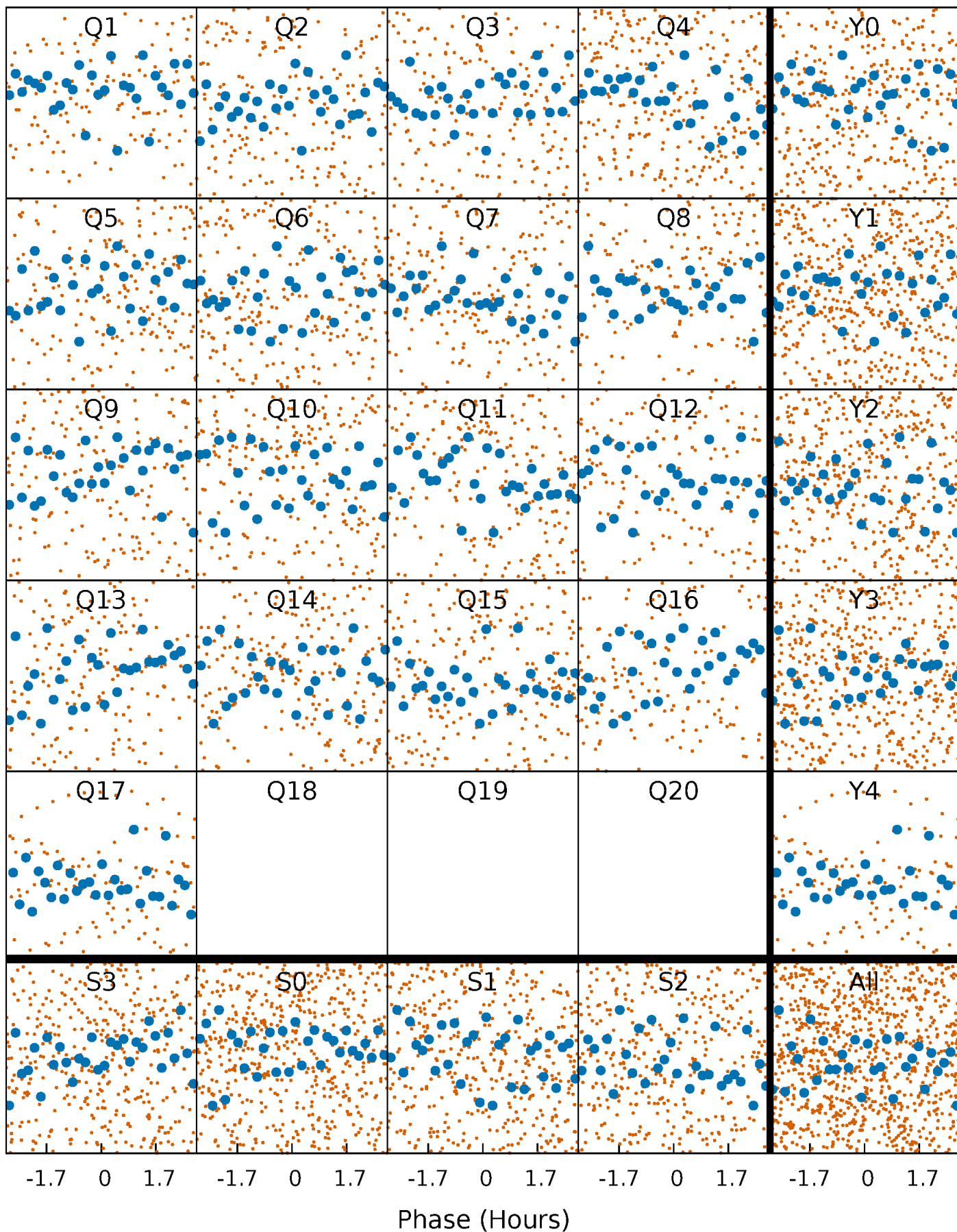


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



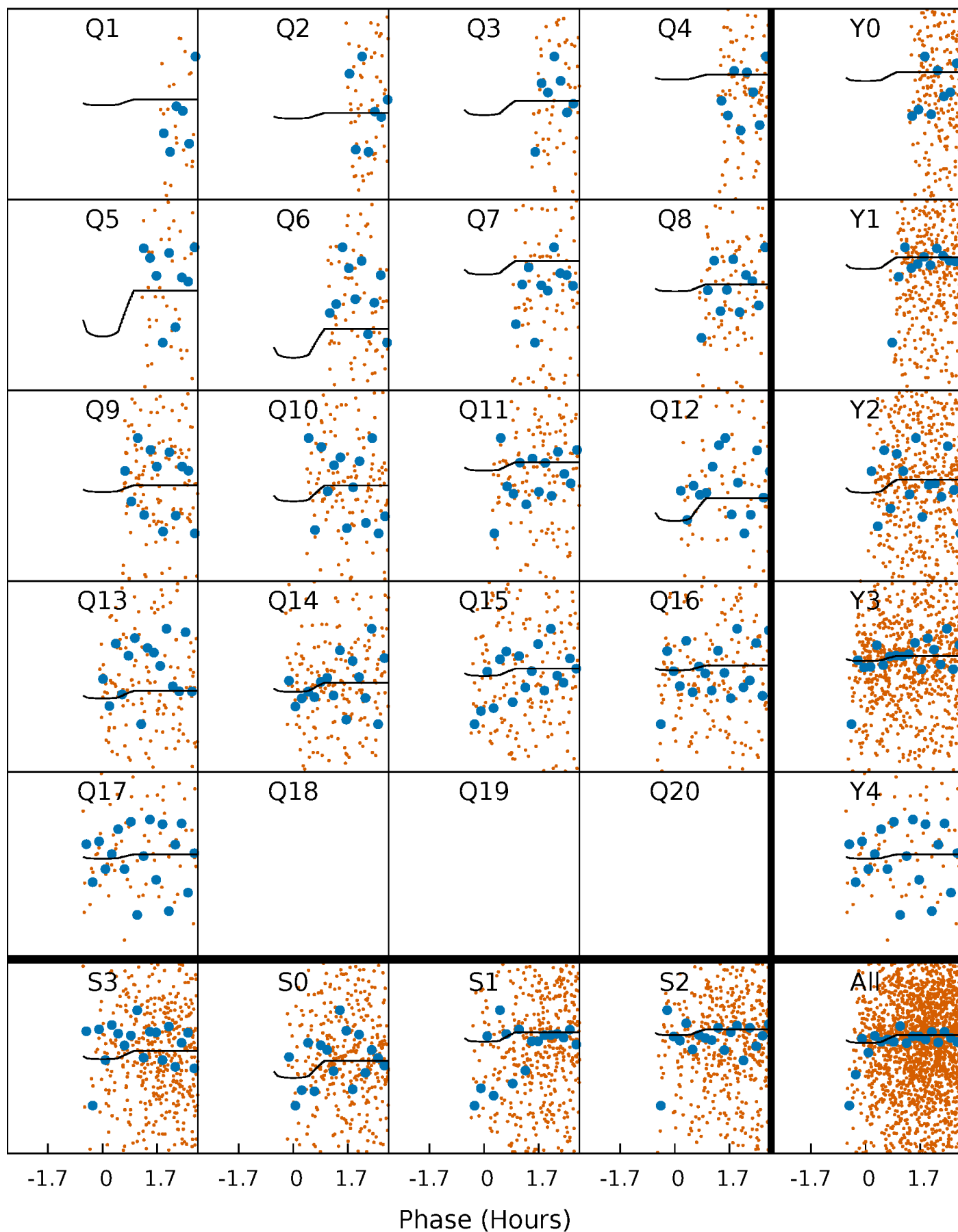
PDC Quarter-Phased Transit Curves

TCE 006366512-02 P= 2.658374 Days $T_0=133.132714$ (BKJD)



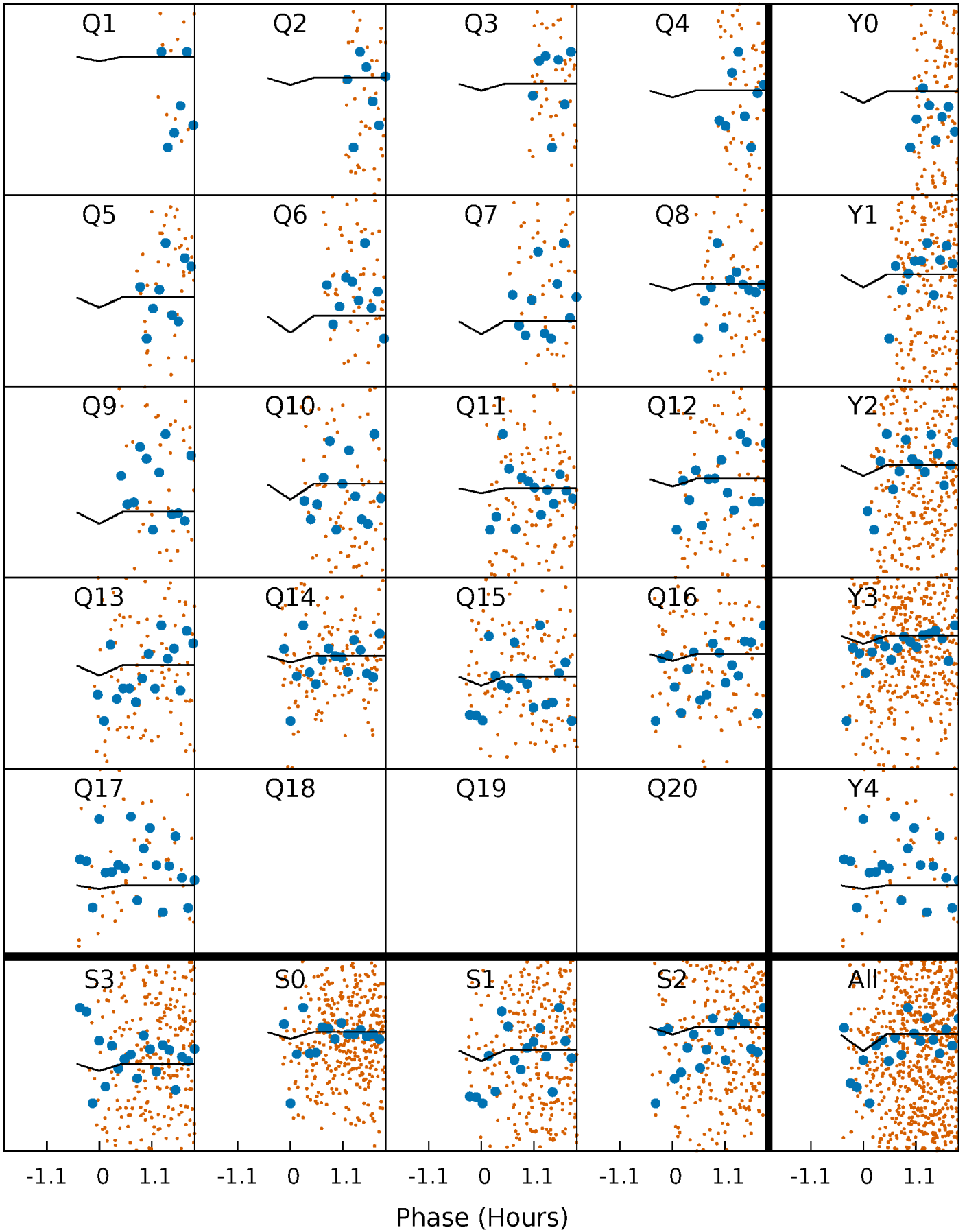
DV Quarter-Phased Transit Curves

TCE 006366512-02 P= 2.658374 Days $T_0=133.132714$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

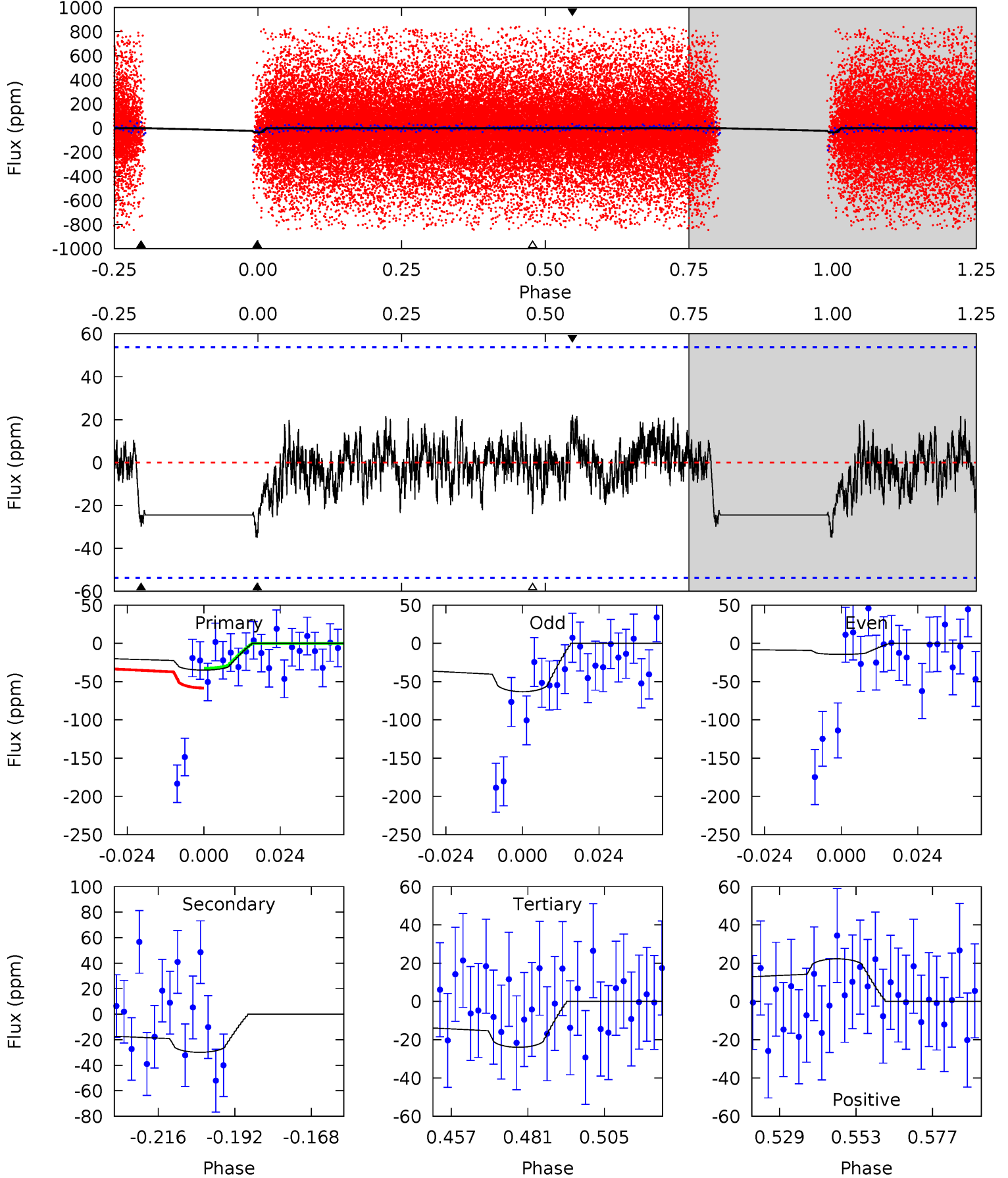
TCE 006366512-02 P= 2.658318 Days $T_0=133.157090$ (BKJD)



DV Model-Shift Uniqueness Test

006366512-02, P = 2.658374 Days, E = 130.474340 Days

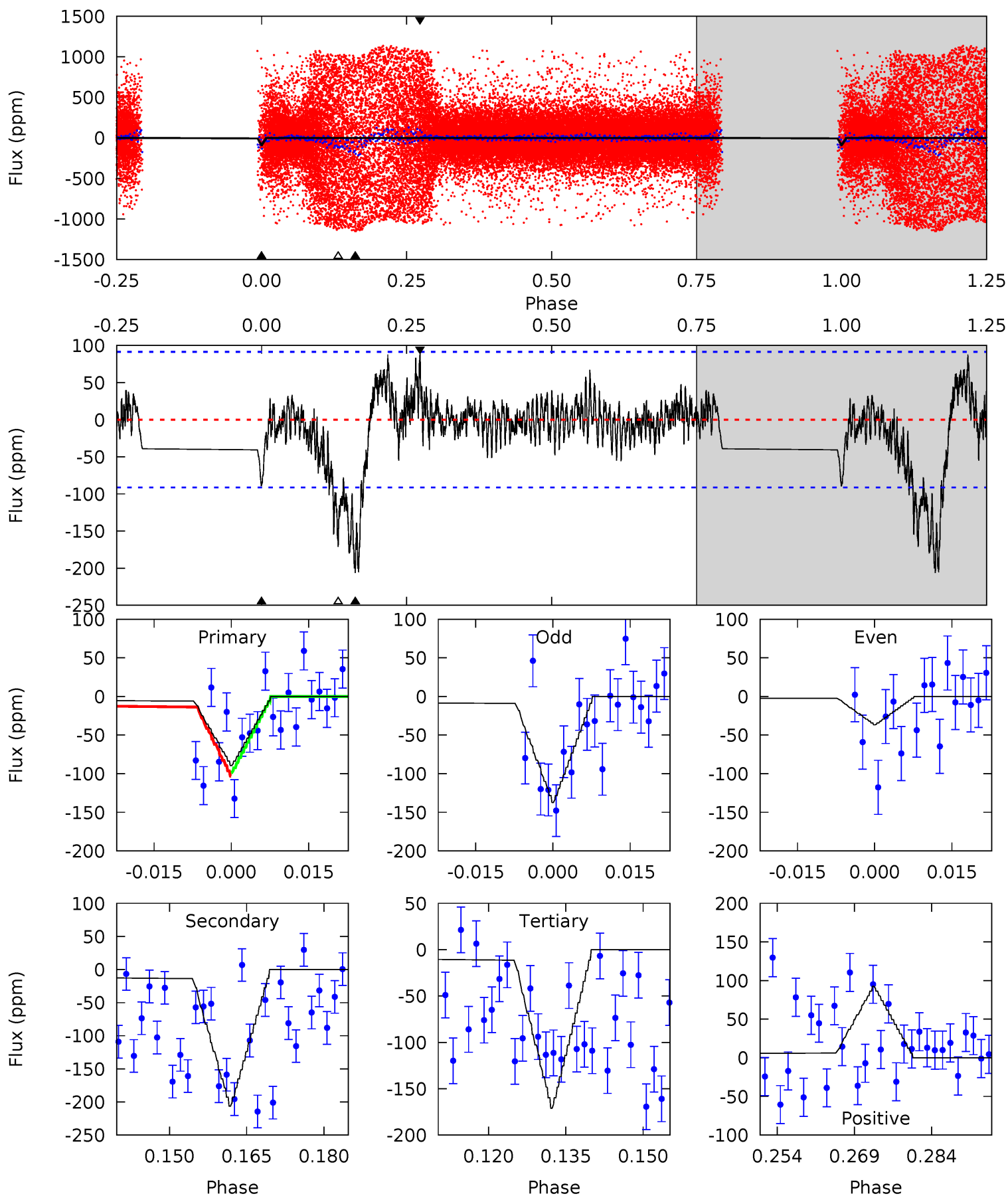
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 3.16 | 2.70 | 2.16 | 2.01 | 4.86 | 2.26 | 0.72 | 0.99 | 1.15 | 0.53 | 0.69 | 2.23 | 0.95 | 0.39 | 0.85 |



Alt Model-Shift Uniqueness Test

006366512-02, P = 2.658318 Days, E = 130.498772 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 4.85 | 11.2 | 9.27 | 5.02 | 4.95 | 2.43 | 1.55 | -4.42 | -0.16 | 1.92 | 6.18 | 2.78 | 0.78 | 0.31 | 0.11 |



Stellar Parameters For KIC 006366512

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | $R (R_{\odot})$ | $M(M_{\odot})$ | $p_{\star} (\text{g}\cdot\text{cm}^{-3})$ |
|--------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------|---|
| | 6980^{+72}_{-93} | $4.128^{+0.090}_{-0.110}$ | $0.060^{+0.150}_{-0.150}$ | $1.751^{+0.304}_{-0.221}$ | $1.502^{+0.115}_{-0.104}$ | $0.394^{+0.164}_{-0.136}$ |
| | +1%/-1% | +2%/-3% | +250%/-250% | +17%/-13% | +8%/-7% | +42%/-34% |
| Source | SPE68 | SPE68 | SPE68 | DSEP | | |

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

Secondary Eclipse Parameters for KIC 006366512-02 / KOI

| Detrend | Depth (ppm) | $R_p (R_{\oplus})$ | $T_{max} (K)$ | $T_{obs} (K)$ | A_{obs} |
|---------|---------------|------------------------|---------------------|--------------------------|---------------------|
| DV | -30 ± 11 | $0.86^{+0.46}_{-0.42}$ | 2745^{+113}_{-93} | 7722^{+4420}_{-1762} | 40^{+106}_{-24} |
| Alt. | -207 ± 18 | $1.03^{+0.45}_{-0.46}$ | 2746^{+111}_{-98} | 14069^{+12751}_{-3588} | 200^{+437}_{-106} |

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 $A_{obs} \gg 1.0$

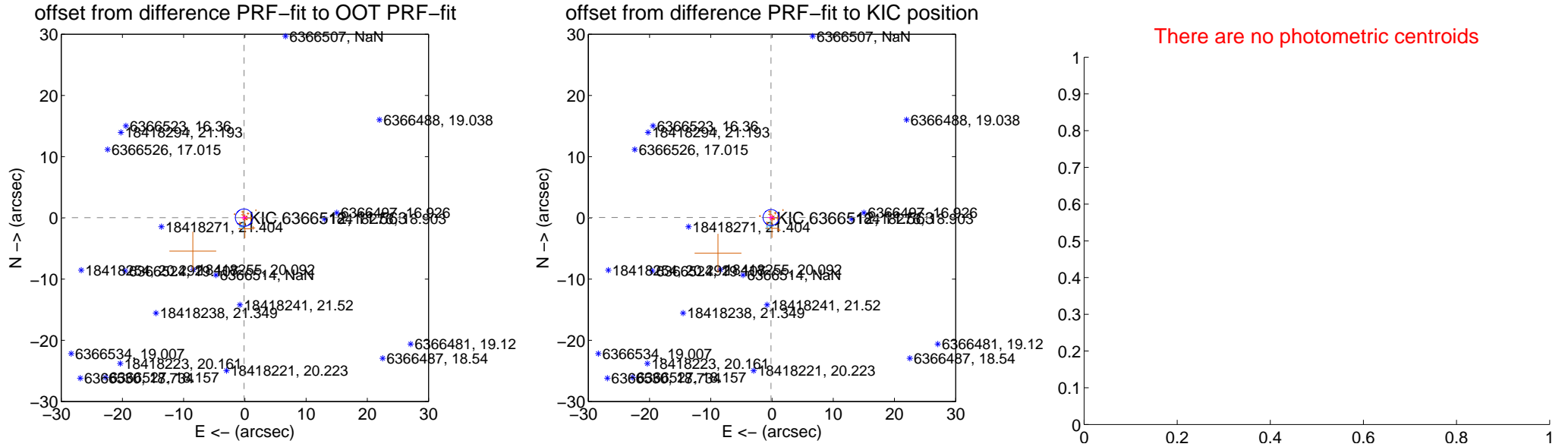
DV Centroid Data

Supplemental centroid analysis for 006366512-02. **Kepler magnitude: 11.56.** Transit SNR 1.98

There are 3 quarters with good PRF difference image offsets

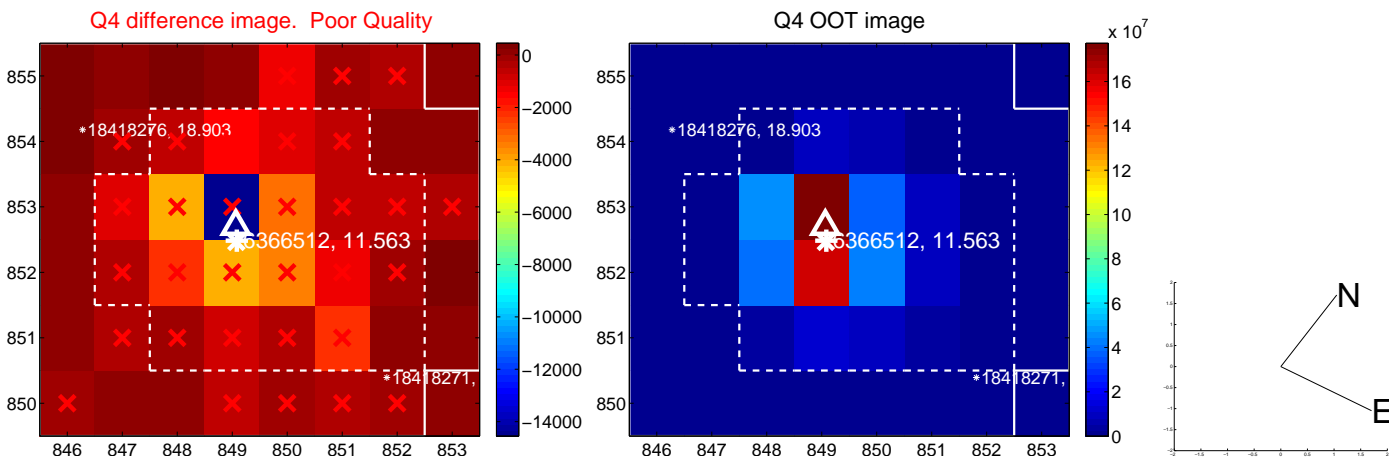
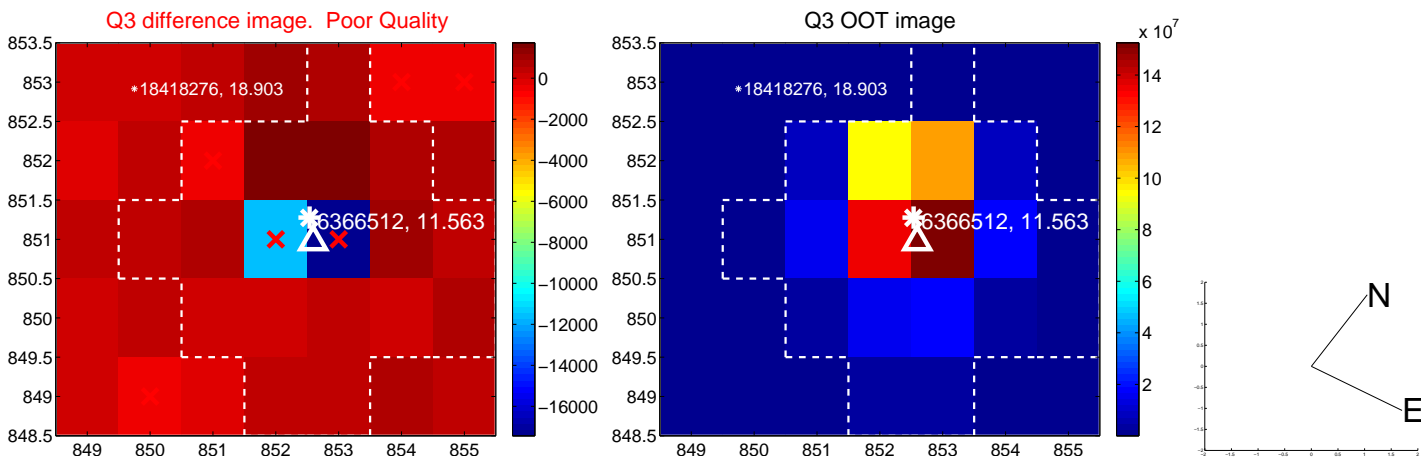
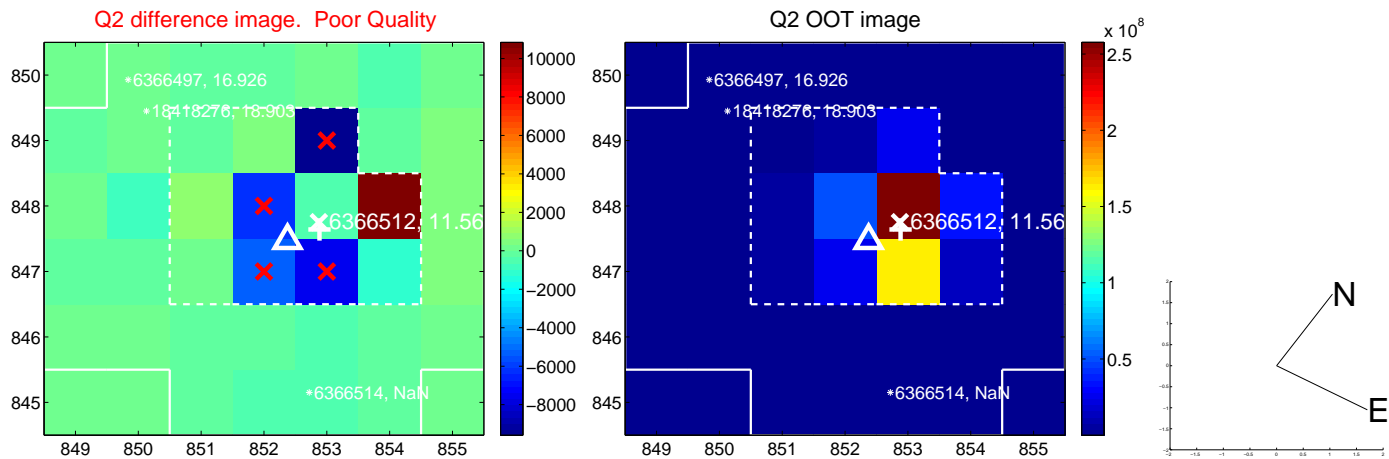
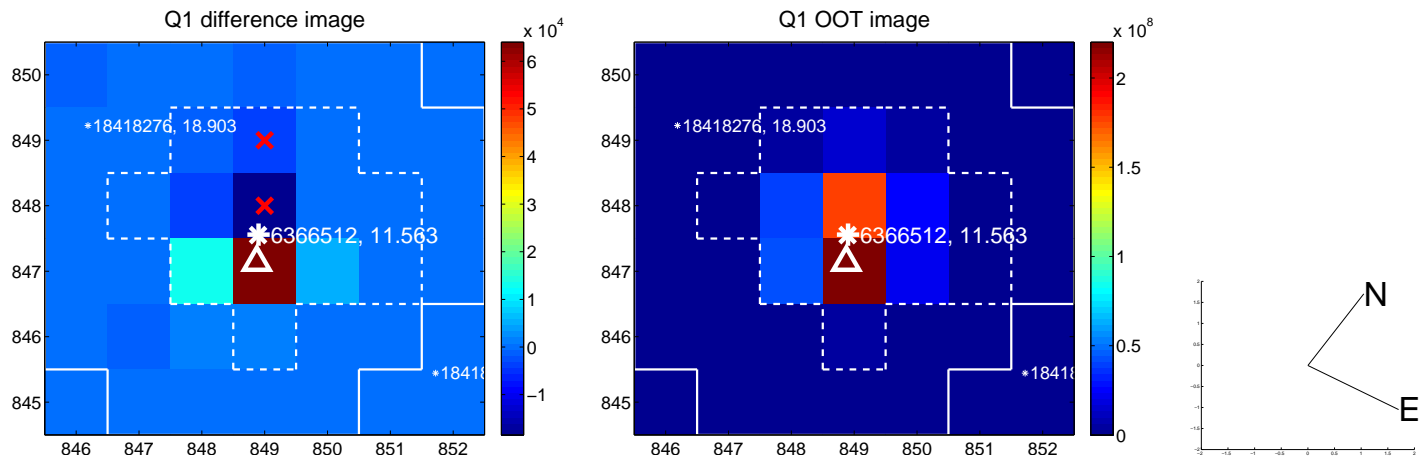
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

| | Distance in arcsec | Distance / σ | Δ RA | Δ Dec |
|---|--------------------|---------------------|-------------------|-------------------|
| PRF-fit source offset from OOT | 0.143 ± 0.472 | 0.30 | 0.137 ± 0.569 | 0.040 ± 0.385 |
| PRF-fit source offset from KIC position | 0.168 ± 0.436 | 0.39 | 0.157 ± 0.582 | 0.061 ± 0.416 |
| photometric centroid source offset | — | — | — | — |

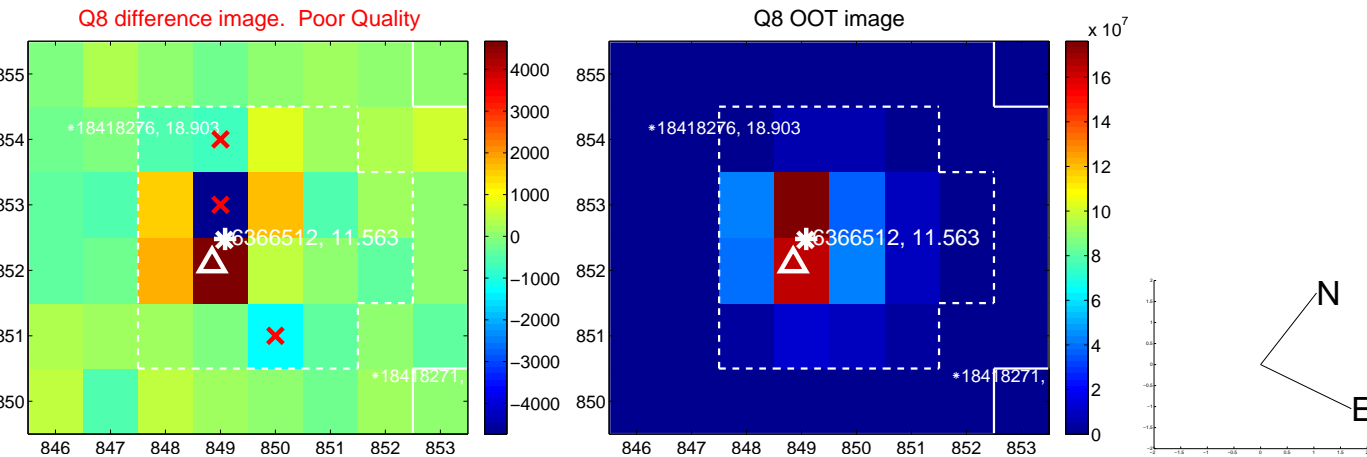
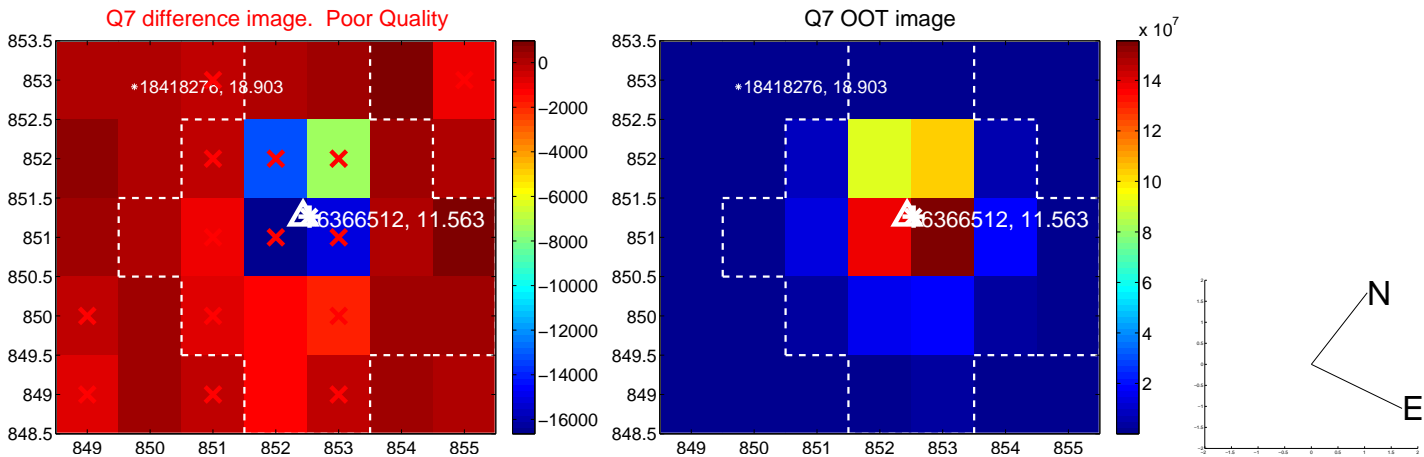
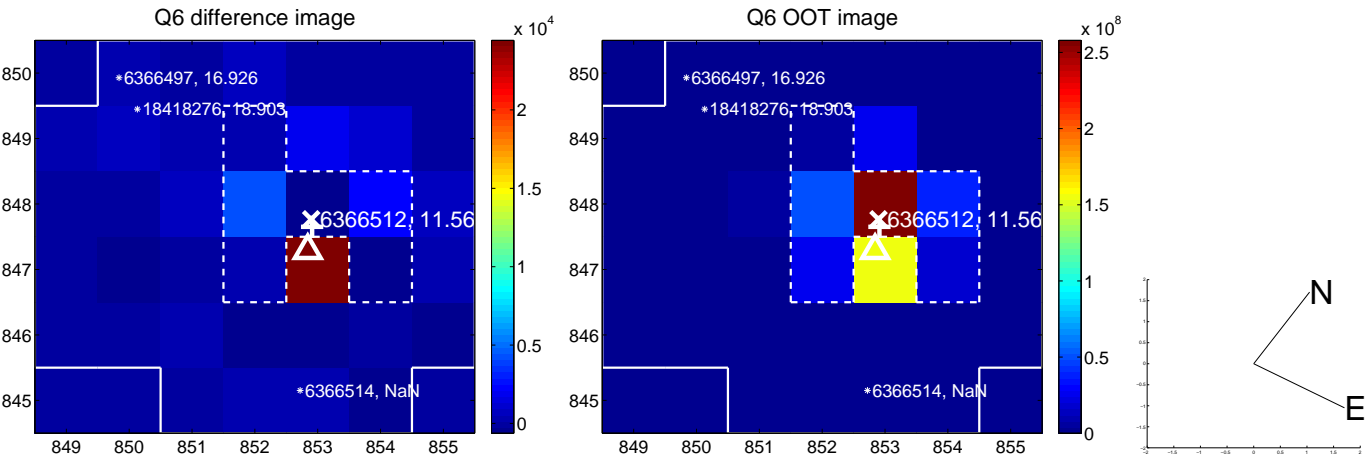
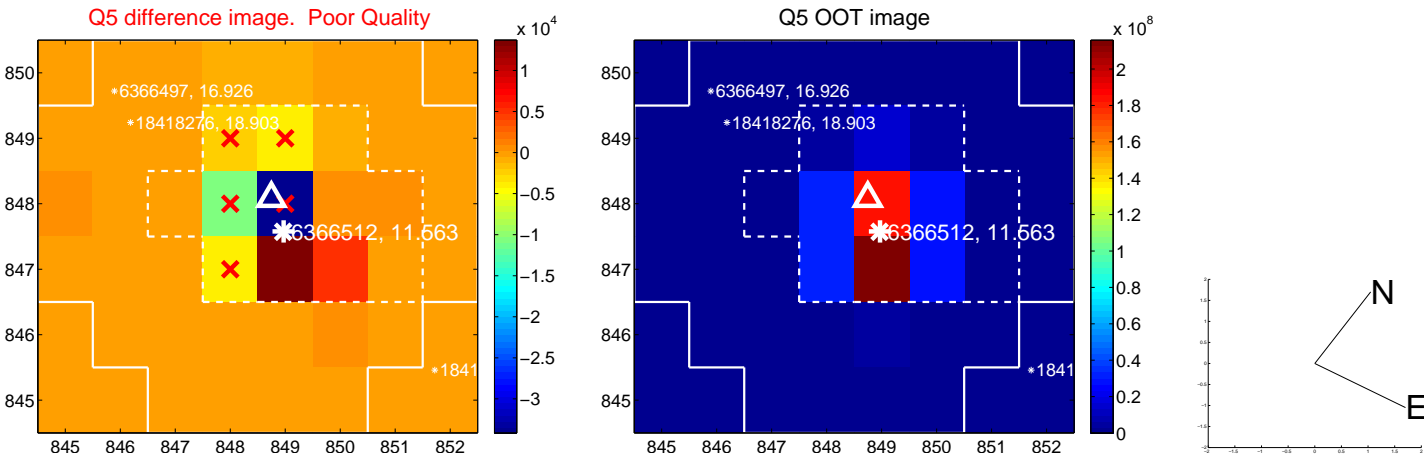


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

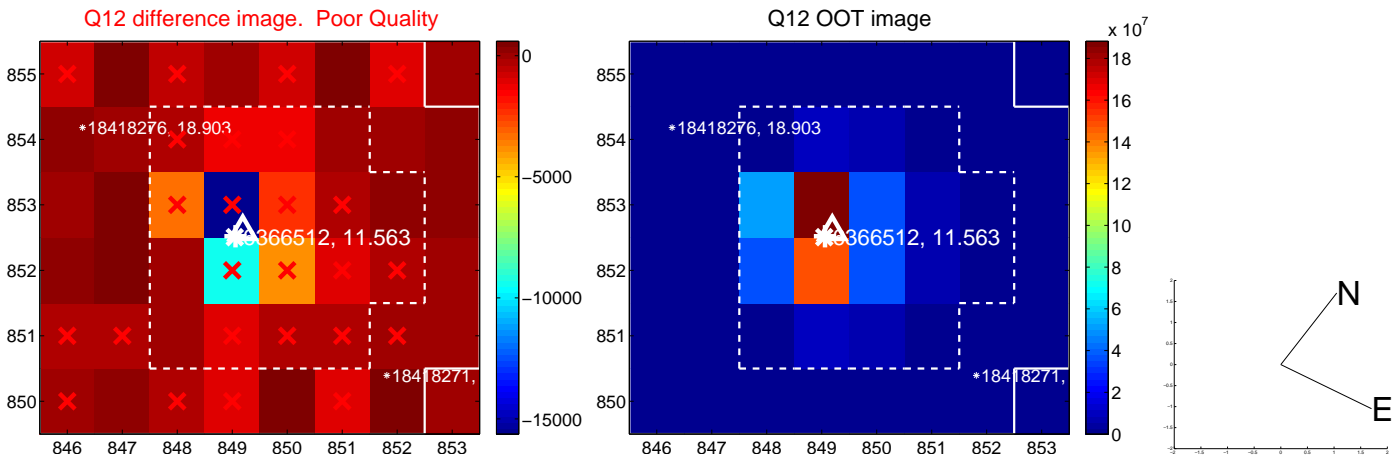
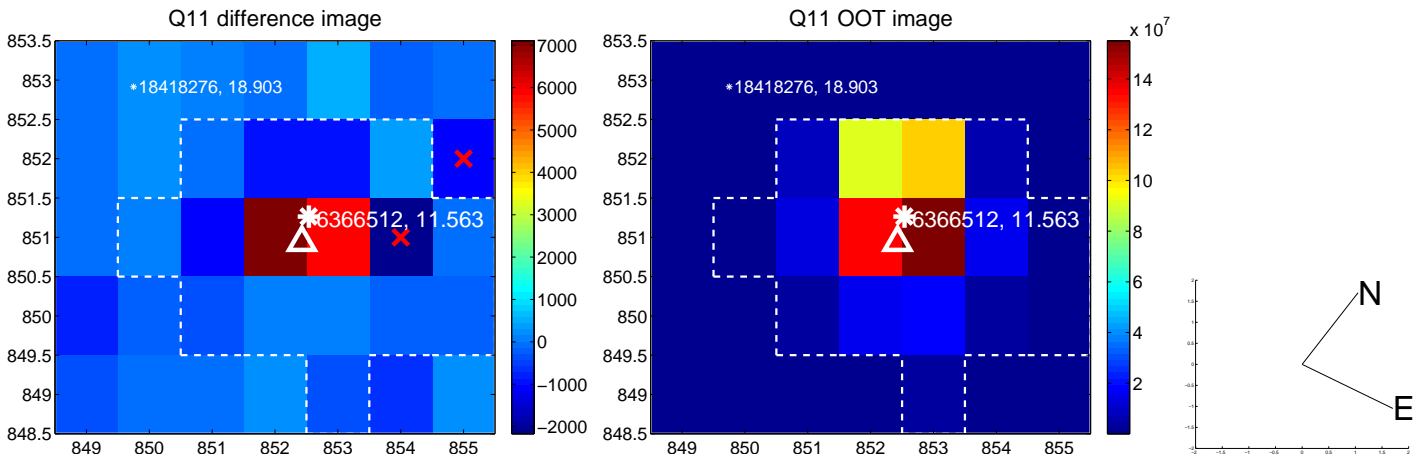
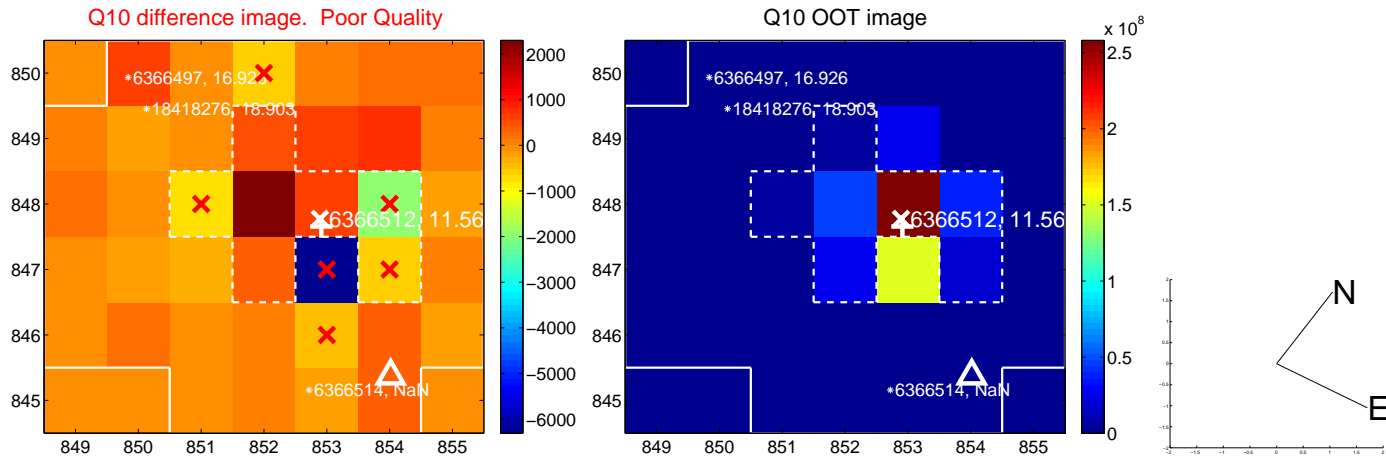
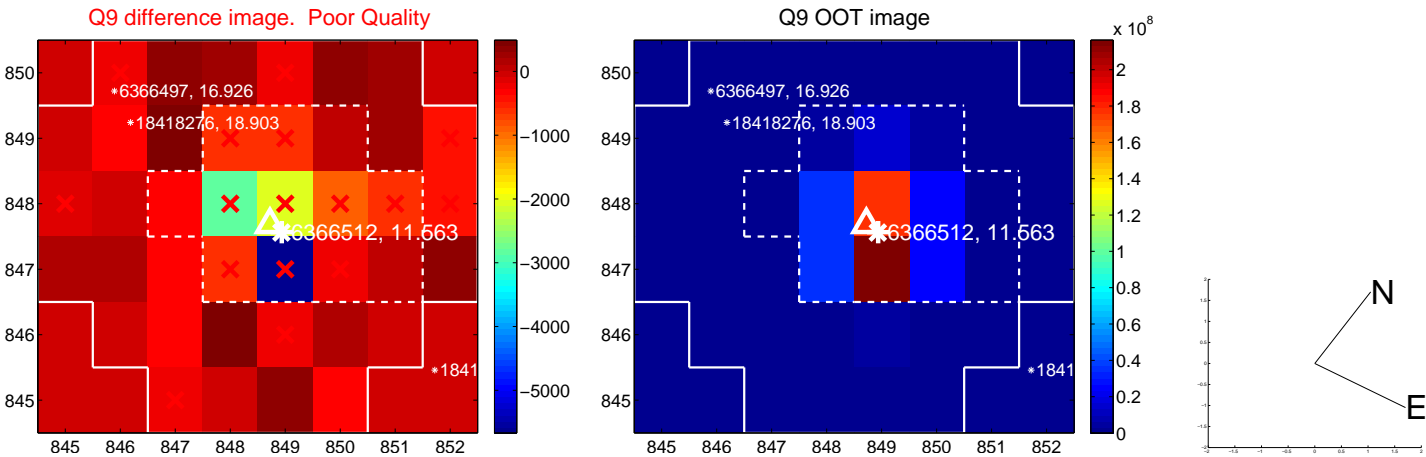
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



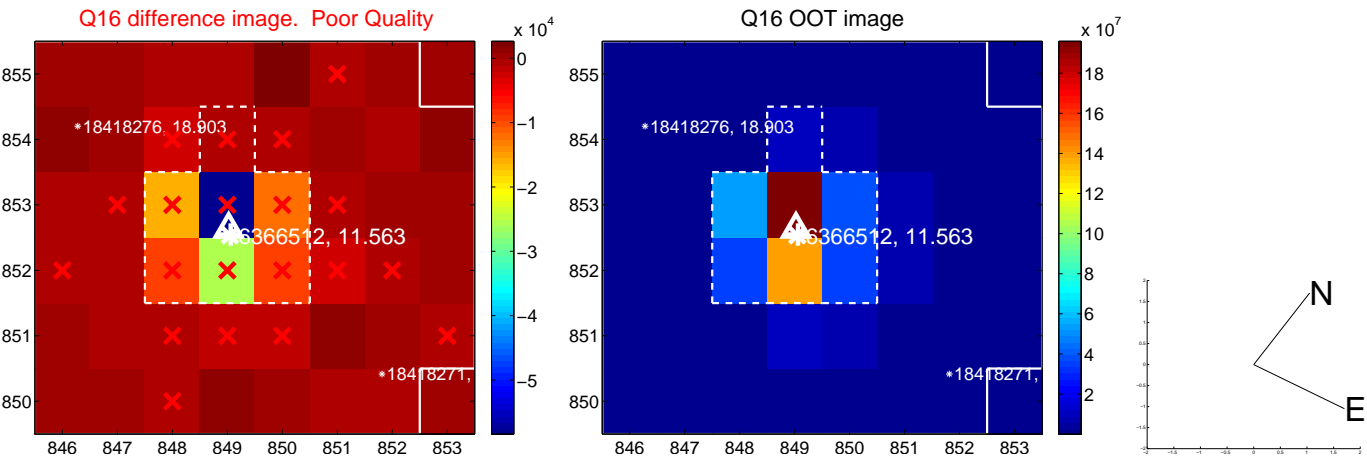
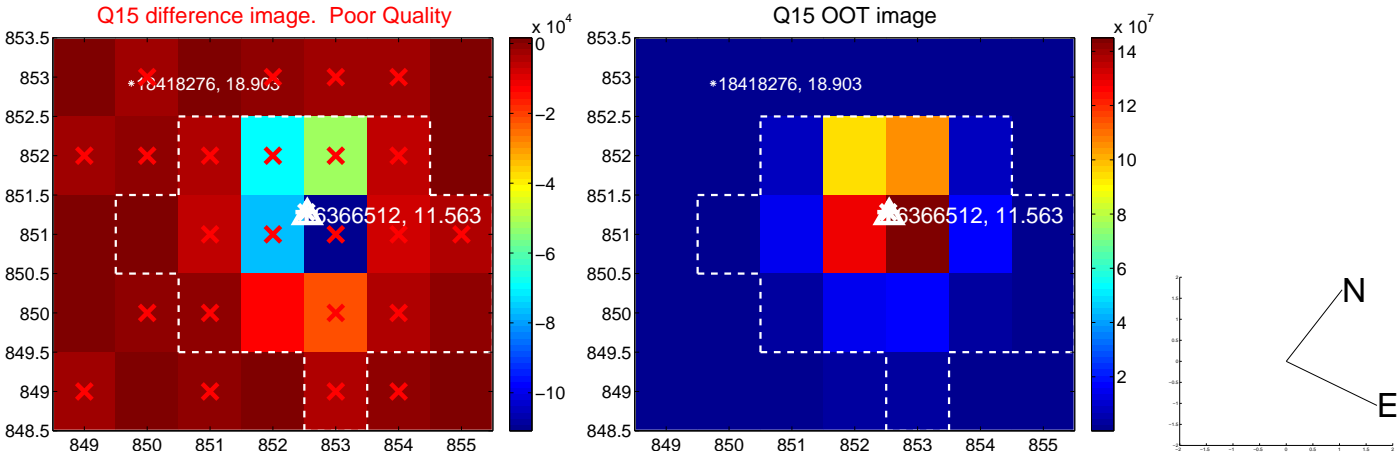
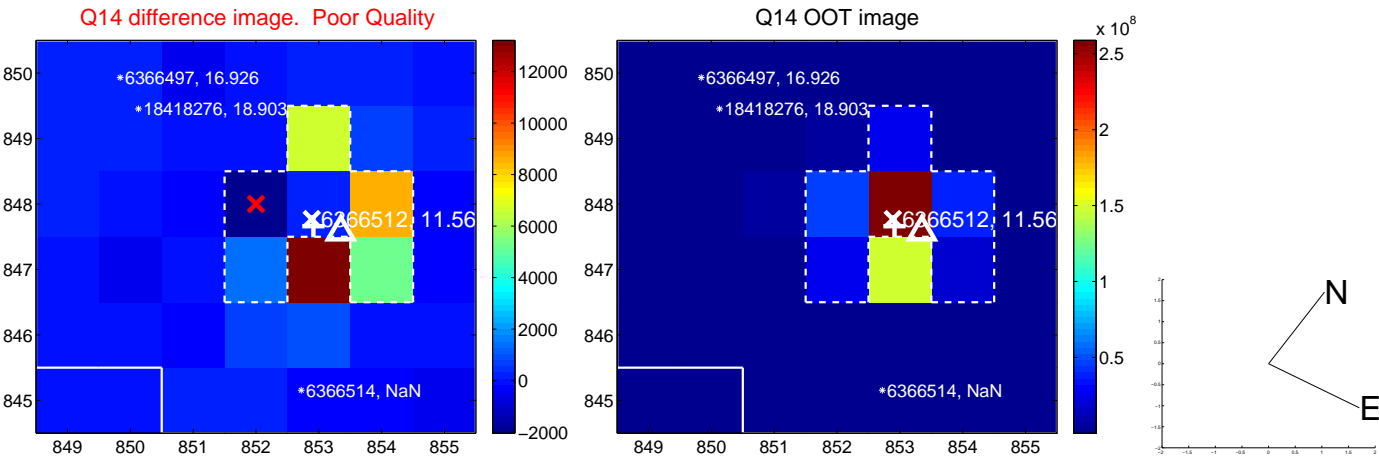
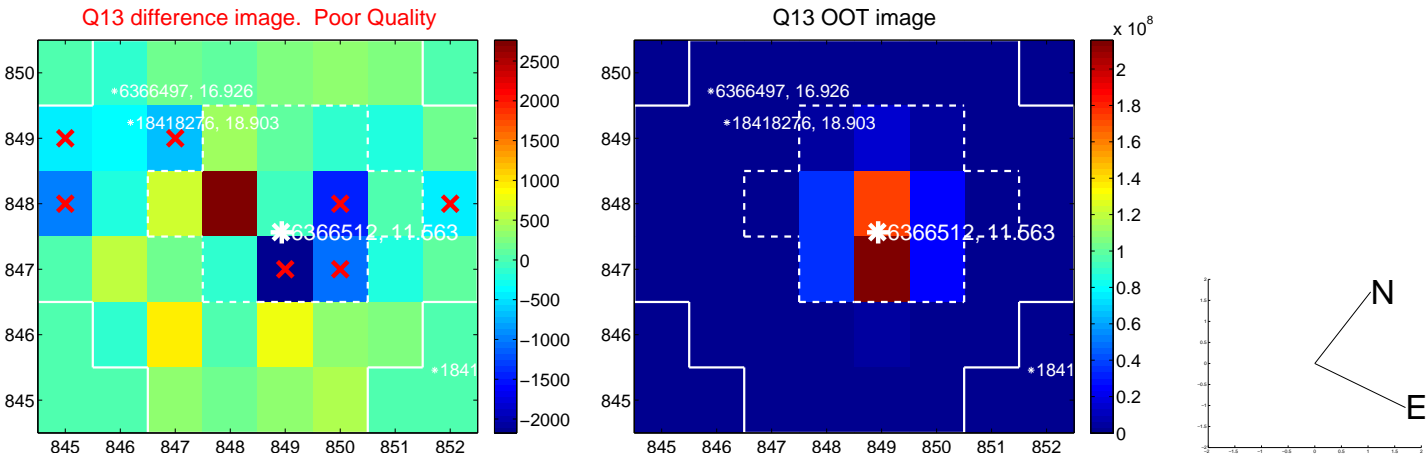
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



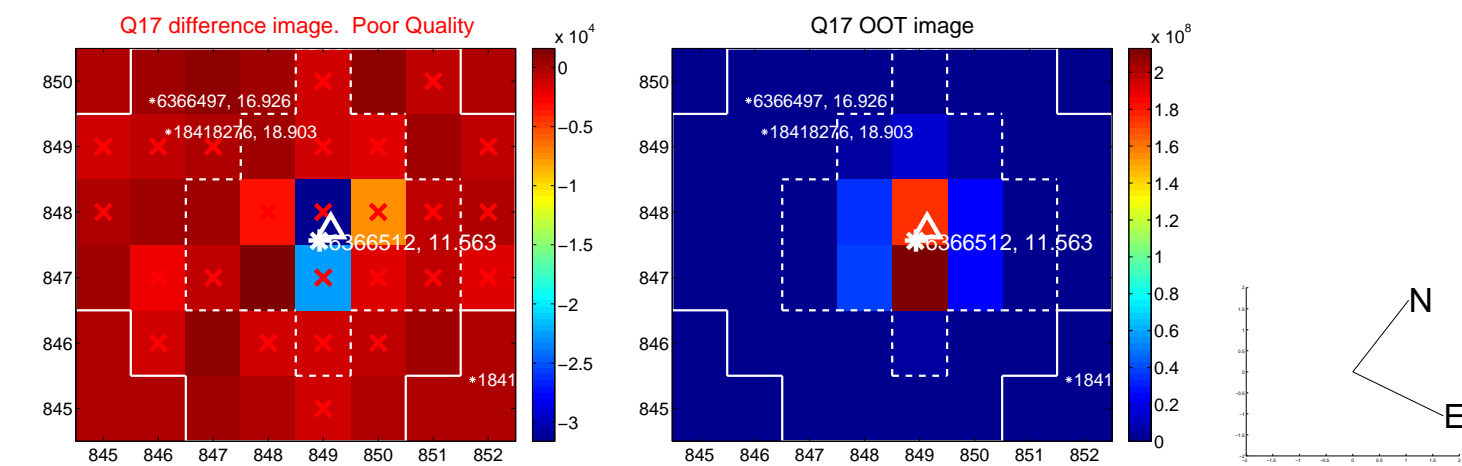
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



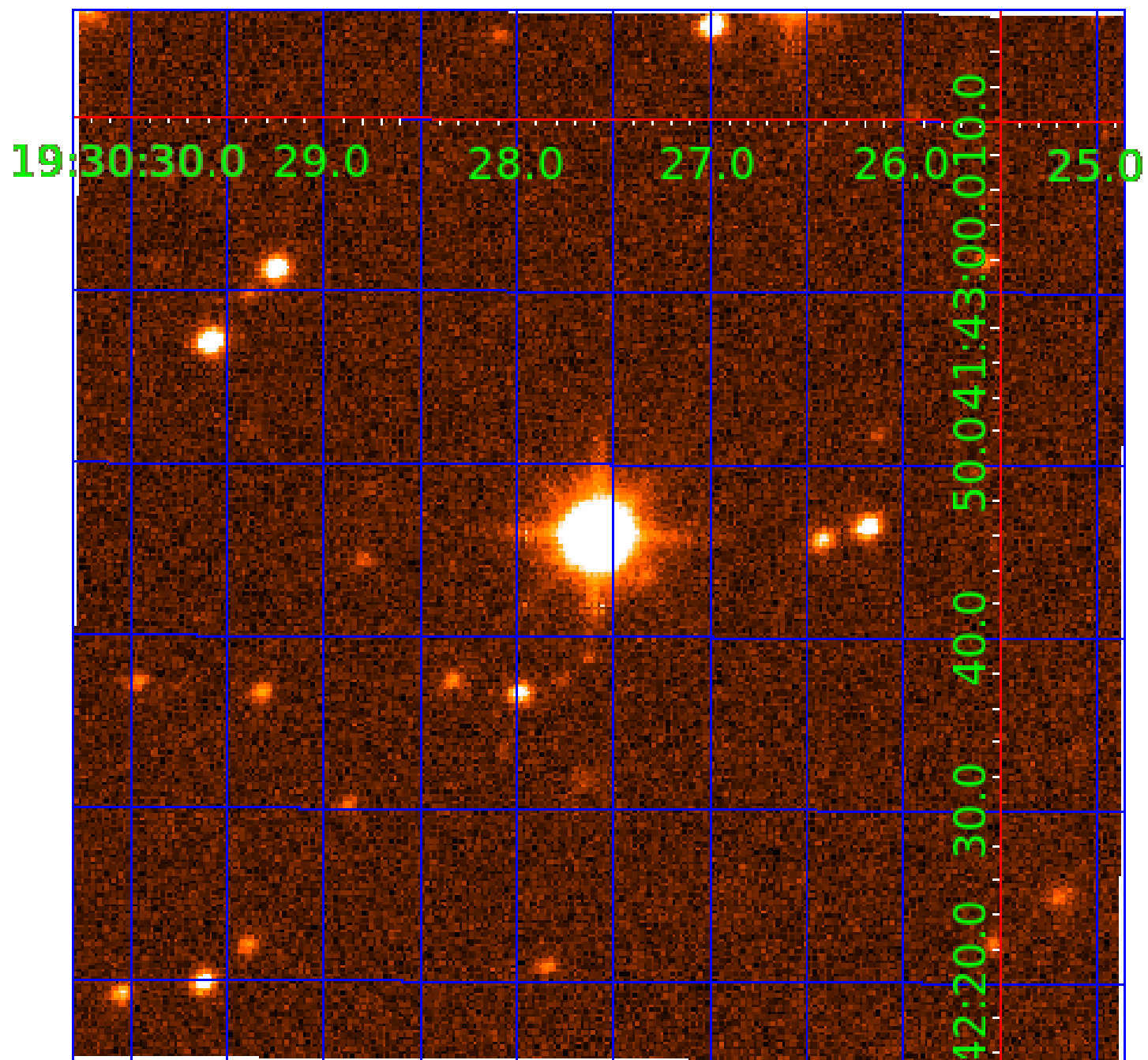
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 006366512

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}) |
|--------------|----------|------|---------------|--------------|-------------|------------------|-----|-----|-----------------------------|-----------------|------------------------|------------------------|
| 006366512-01 | OBS | No | 2.658186 | 132.910562 | 12.7 | 4.605 | 8.6 | 2.5 | 1.75 | 6980 | 0.64 | 3524.19 |
| 006366512-02 | OBS | No | 2.658374 | 133.132714 | 21.7 | 1.484 | 8.1 | 2.0 | 1.75 | 6980 | 0.87 | 3523.86 |
| 006366512-03 | OBS | No | 2.658764 | 133.277202 | 13.4 | 1.742 | 8.1 | 2.3 | 1.75 | 6980 | 0.74 | 3523.17 |

Robovetter Results

| TCE | Run Type | Disp | Score | N | S | C | E | Comments |
|--------------|----------|------|-------|---|---|---|---|--|
| 006366512-01 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT |
| 006366512-02 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD |
| 006366512-03 | OBS | FP | 0.00 | 1 | 0 | 0 | 0 | INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD |

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

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

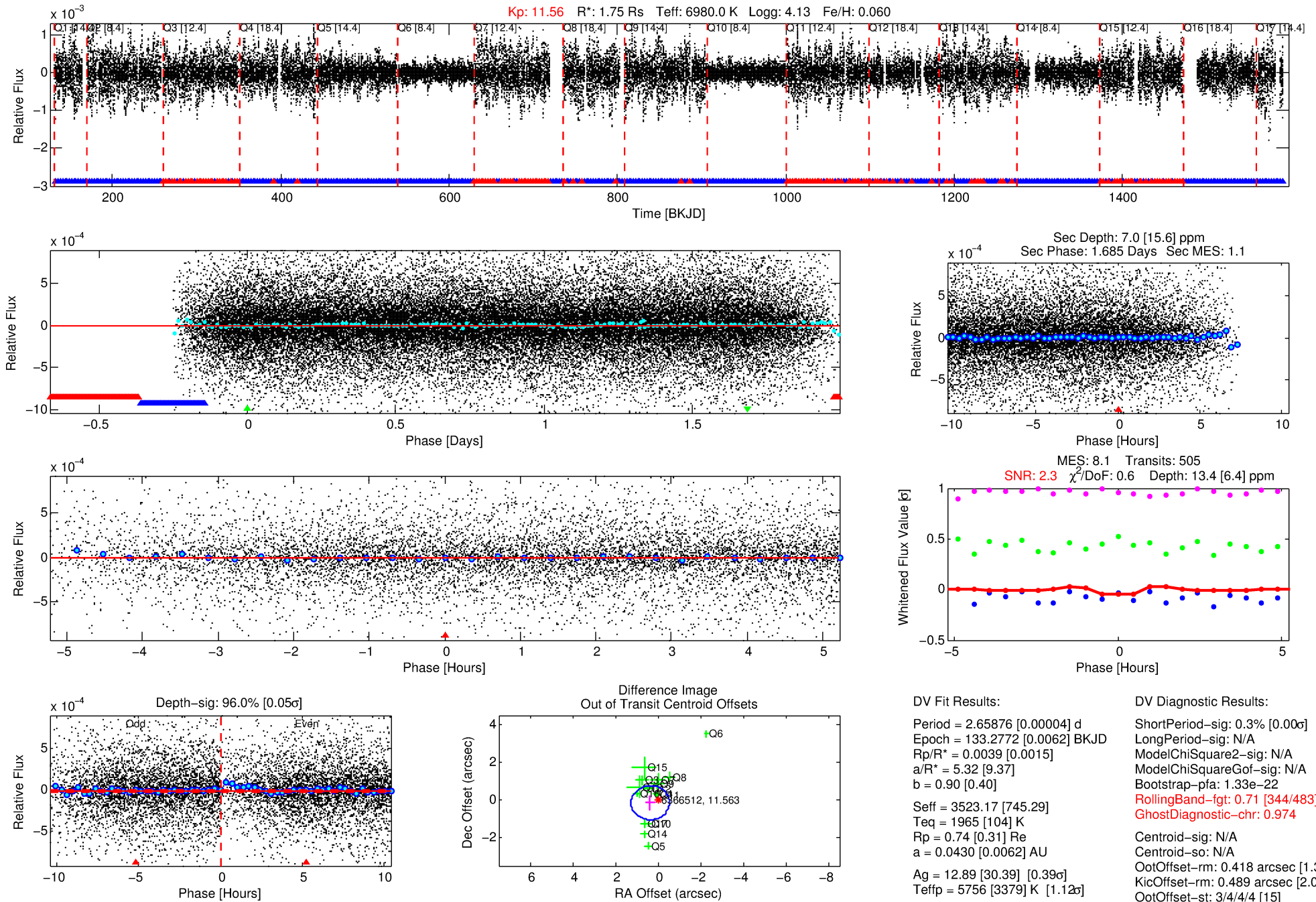
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006366512-03

No Significant Match Found

DV One-Page Summary

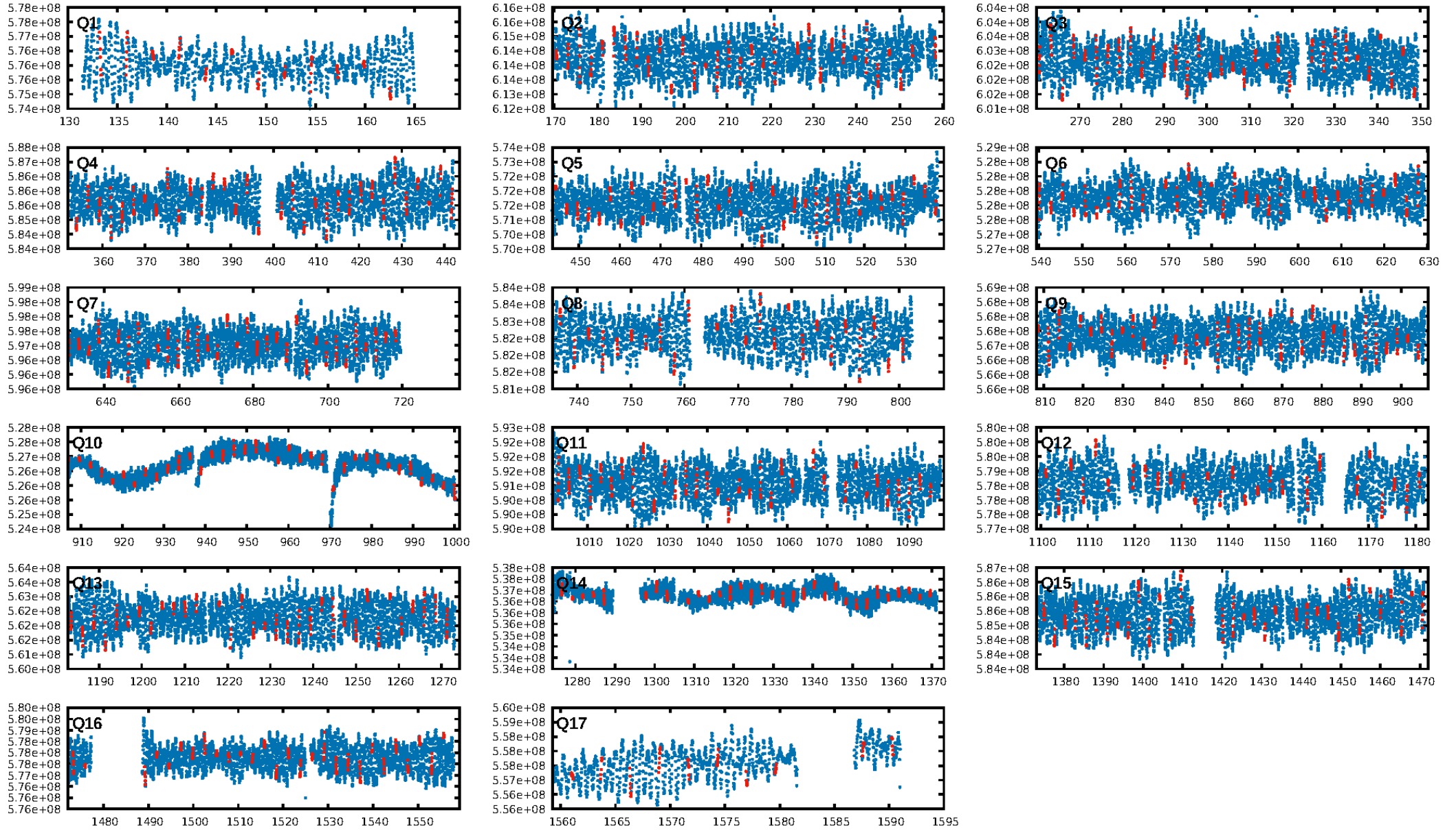
KIC: 6366512 Candidate: 3 of 3 Period: 2.659 d



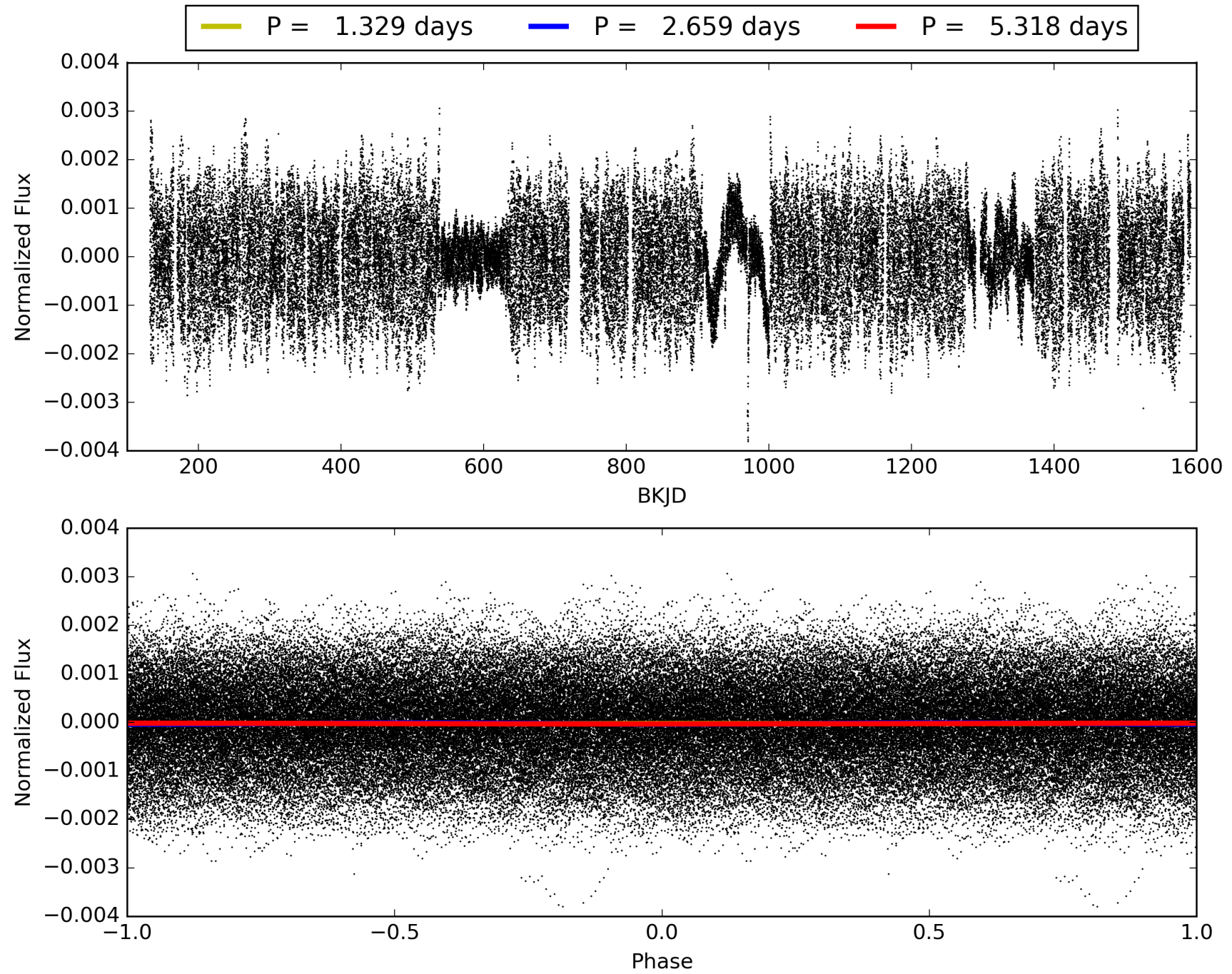
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 03:40:44 Z

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

TCE 006366512-03, PDC Light Curves

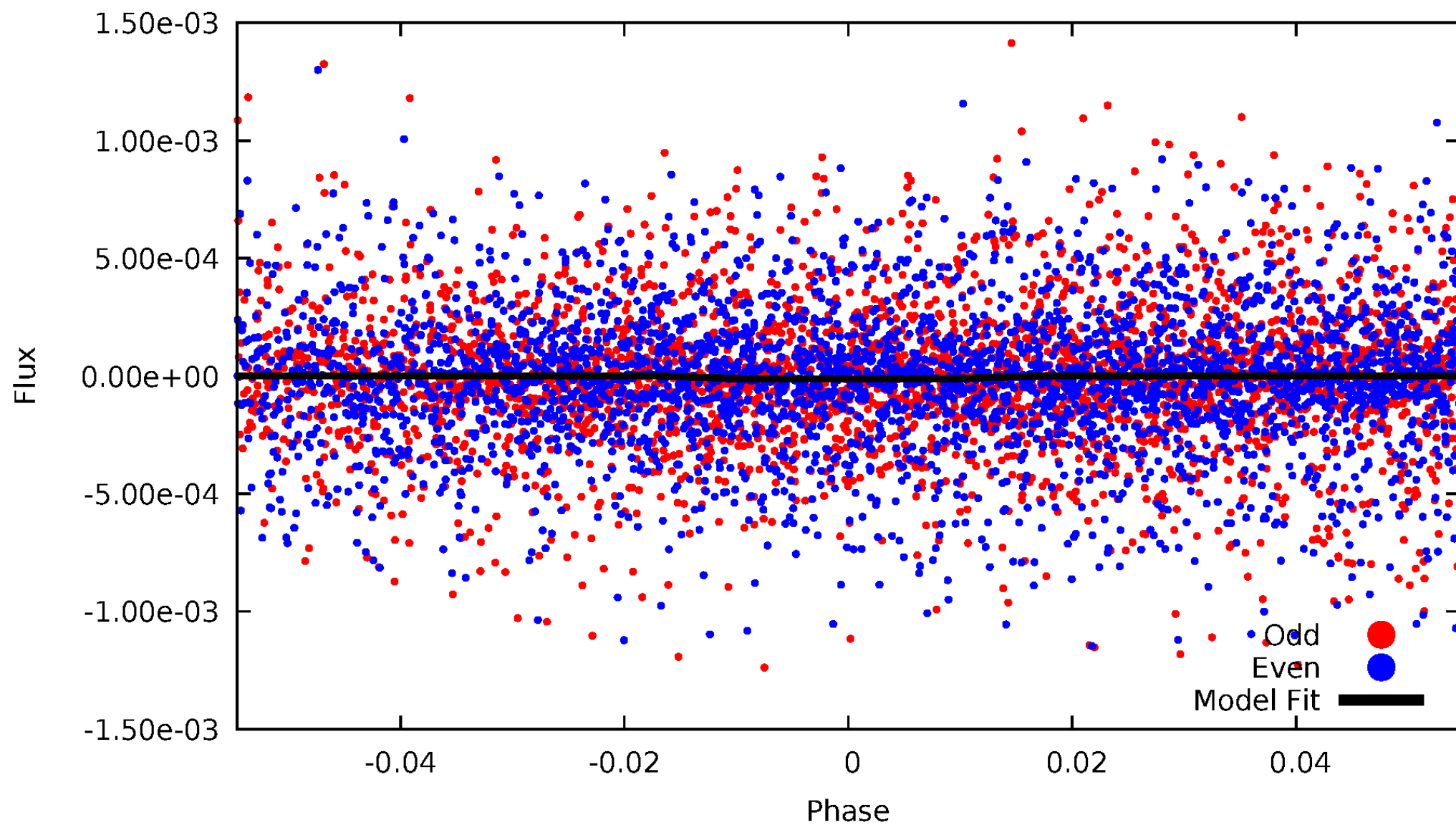


TCE 006366512-03



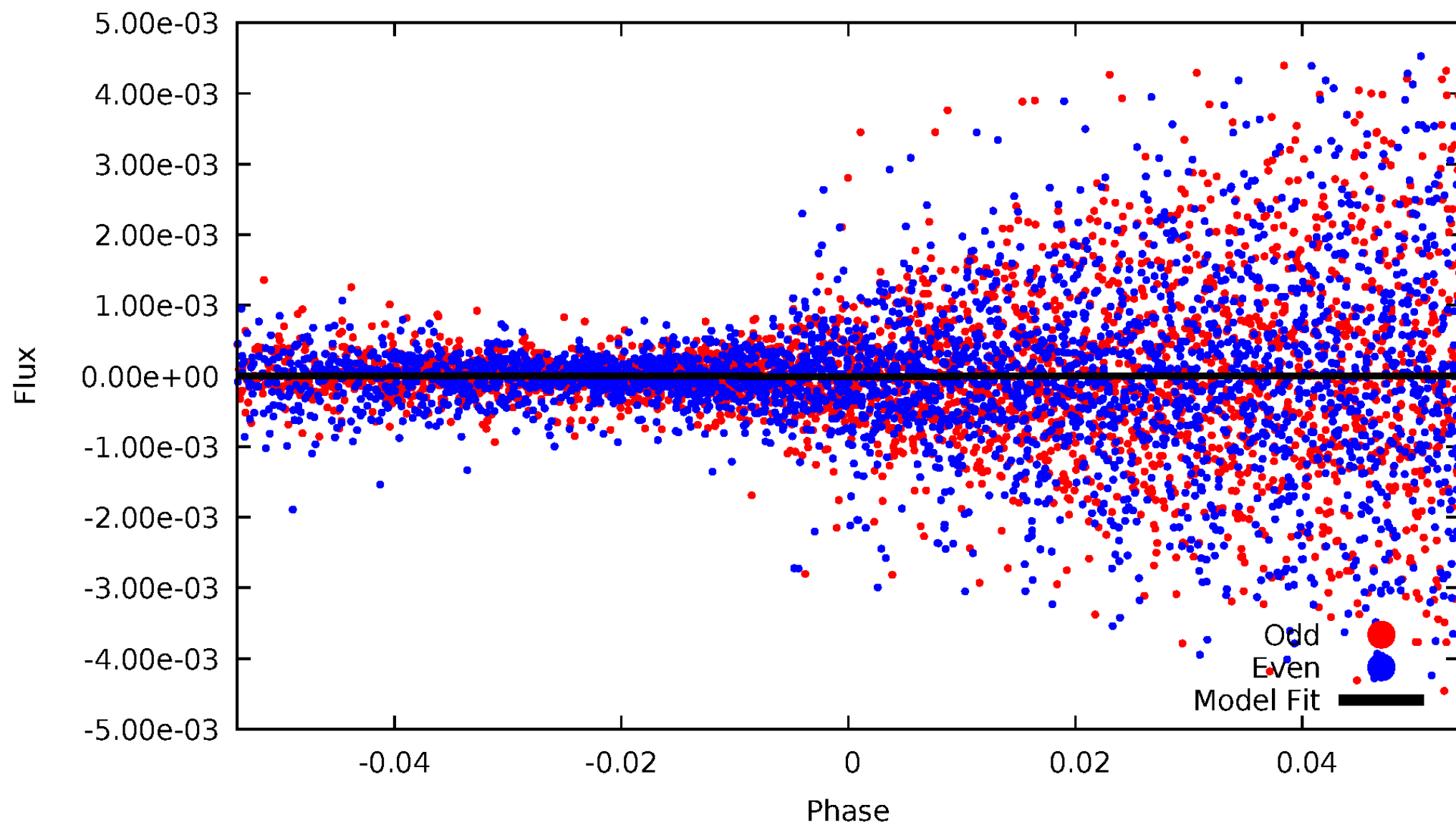
DV Odd/Even

TCE 006366512-03

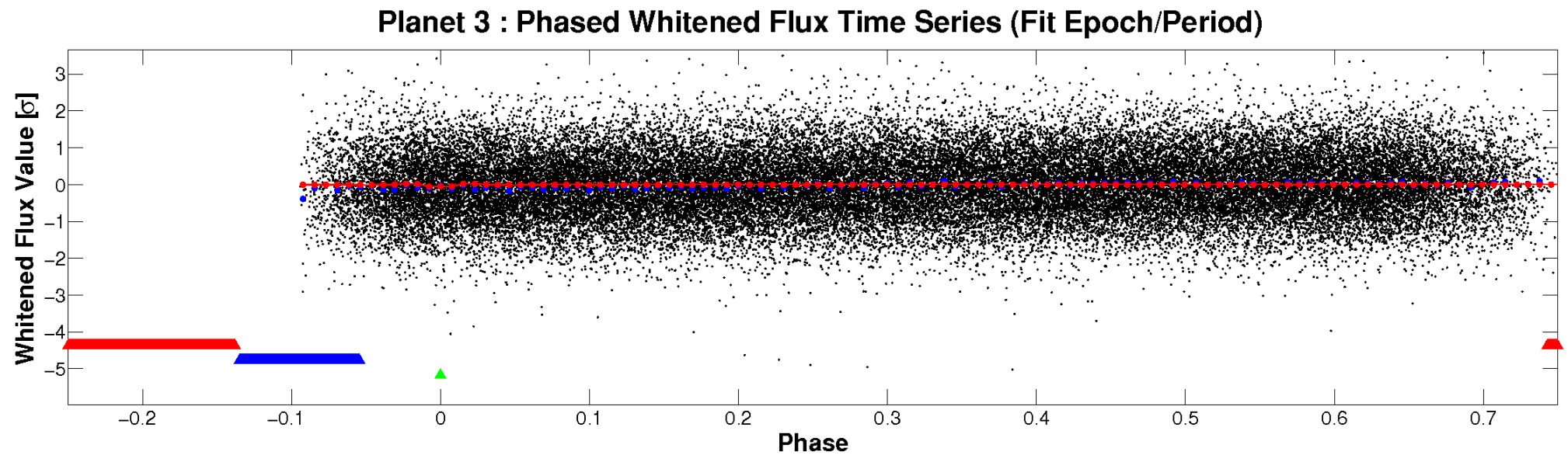
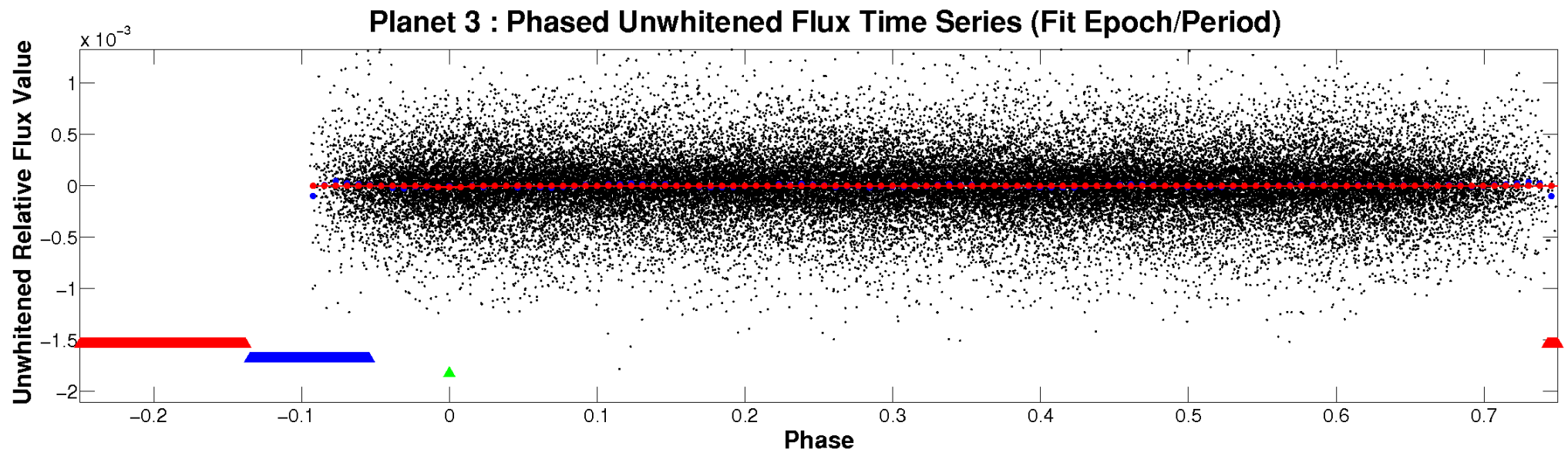


ALT Odd/Even

TCE 006366512-03

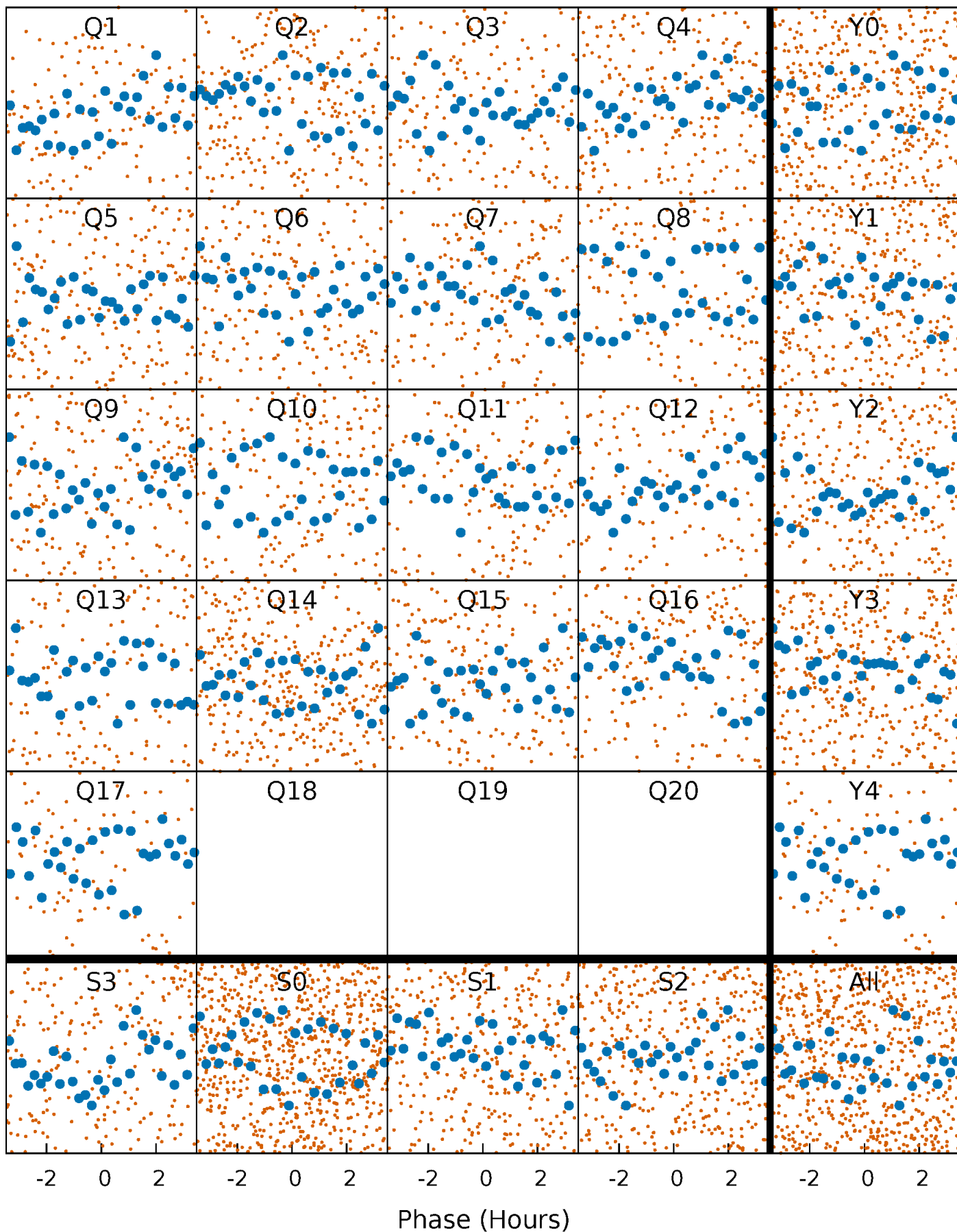


Non-Whitened Vs. Whitened Light Curve



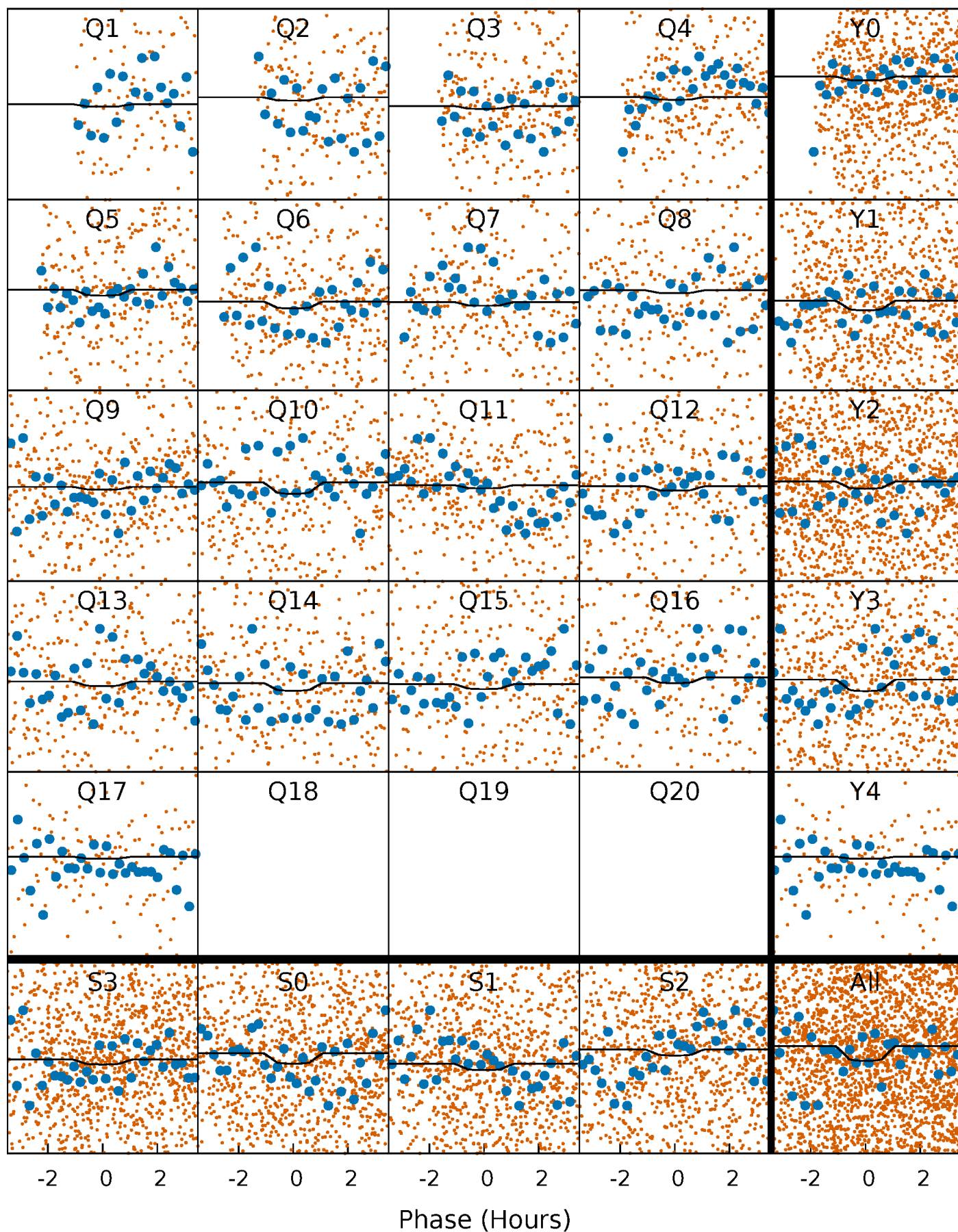
PDC Quarter-Phased Transit Curves

TCE 006366512-03 P= 2.658764 Days $T_0=133.277202$ (BKJD)



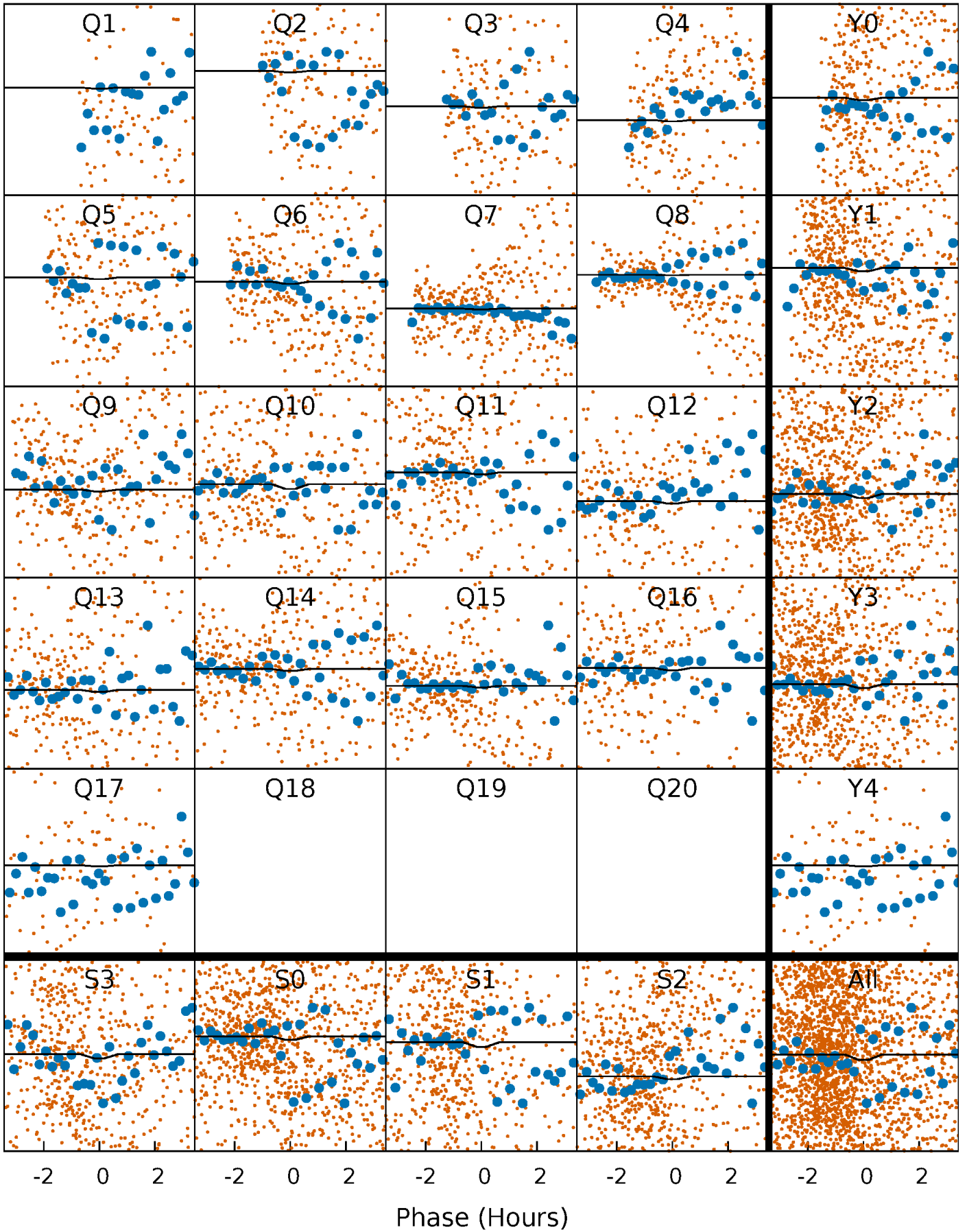
DV Quarter-Phased Transit Curves

TCE 006366512-03 P= 2.658764 Days $T_0=133.277202$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

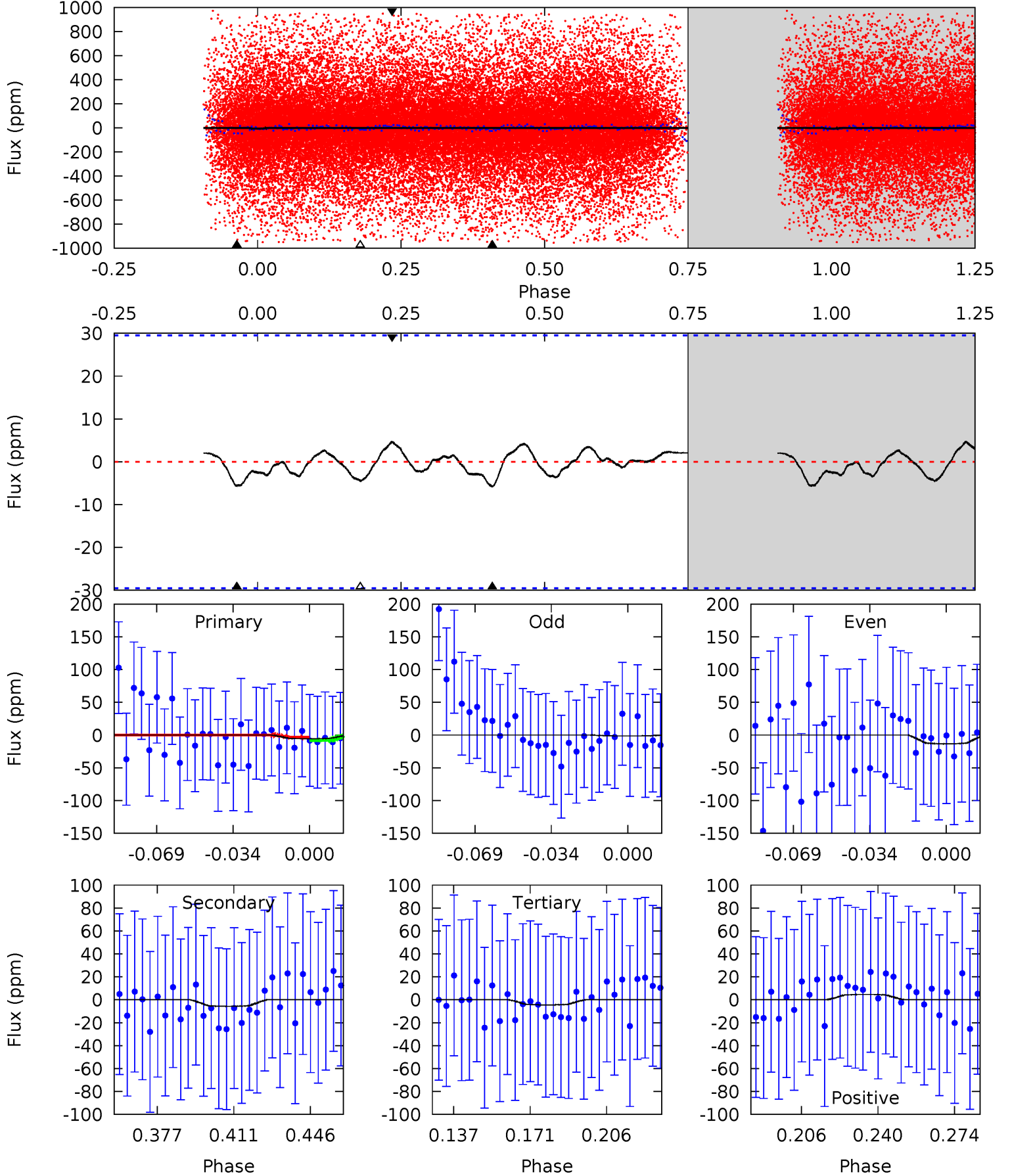
TCE 006366512-03 P= 2.658728 Days $T_0=133.267605$ (BKJD)



DV Model-Shift Uniqueness Test

006366512-03, P = 2.658764 Days, E = 130.618438 Days

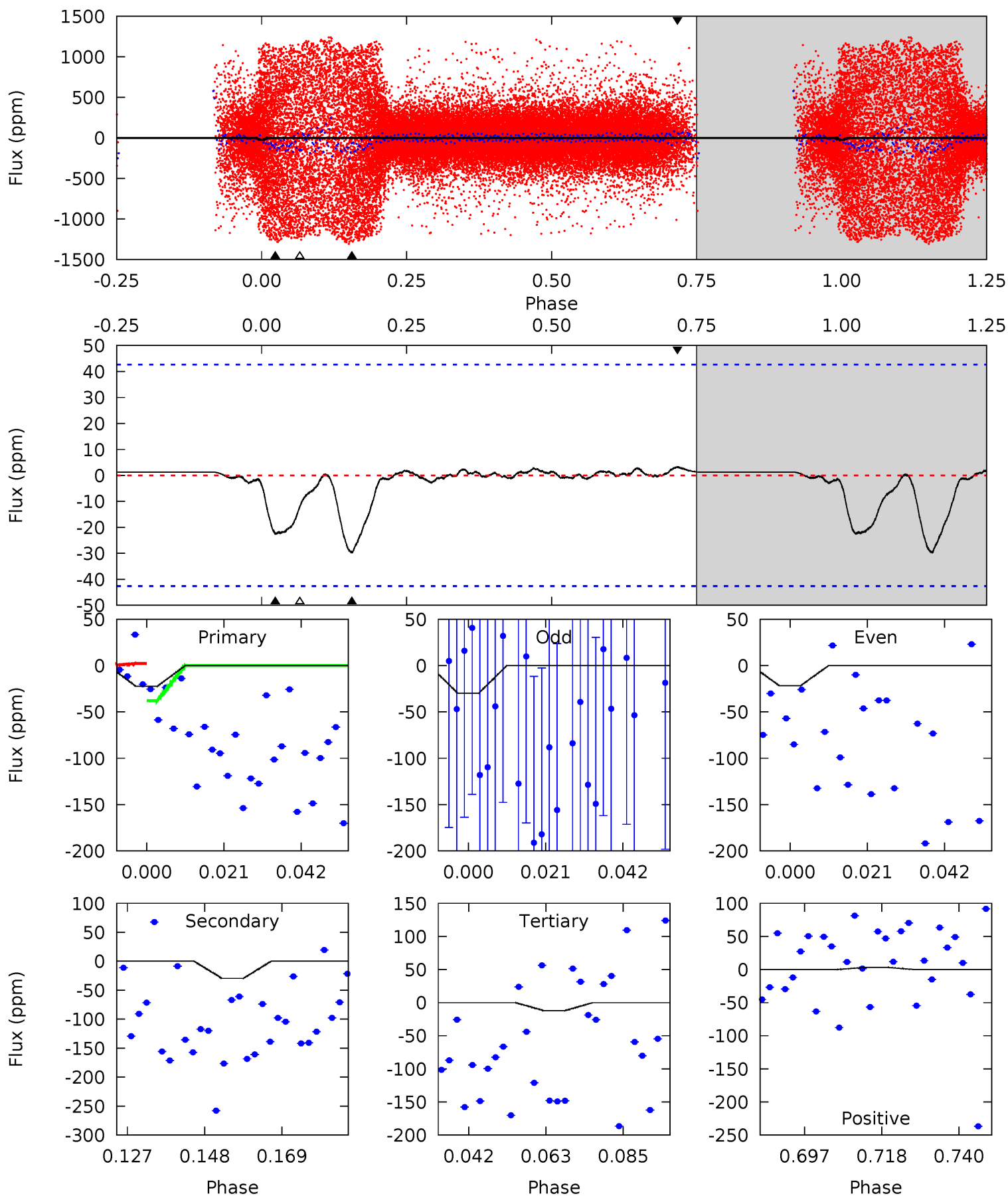
| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 0.91 | 0.93 | 0.73 | 0.75 | 4.78 | 2.12 | 0.35 | 0.18 | 0.16 | 0.20 | 0.18 | 0.99 | 0.90 | 0.45 | 0.42 |



Alt Model-Shift Uniqueness Test

006366512-03, P = 2.658728 Days, E = 130.608877 Days

| Pri | Sec | Ter | Pos | FA ₁ | FA ₂ | F _{Red} | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|------|------|------|------|-----------------|-----------------|------------------|---------|---------|---------|---------|---------|------|-------|------|
| 2.57 | 3.40 | 1.39 | 0.37 | 4.88 | 2.31 | 0.43 | 1.19 | 2.21 | 2.01 | 3.03 | 0.47 | 1.67 | 0.10 | 1.96 |



Stellar Parameters For KIC 006366512

| | $T_{\text{eff}}(K)$ | $\log(g)$ | [Fe/H] | $R (R_{\odot})$ | $M(M_{\odot})$ | $p_{\star} (\text{g}\cdot\text{cm}^{-3})$ |
|--------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------|---|
| | 6980^{+72}_{-93} | $4.128^{+0.090}_{-0.110}$ | $0.060^{+0.150}_{-0.150}$ | $1.751^{+0.304}_{-0.221}$ | $1.502^{+0.115}_{-0.104}$ | $0.394^{+0.164}_{-0.136}$ |
| | +1%/-1% | +2%/-3% | +250%/-250% | +17%/-13% | +8%/-7% | +42%/-34% |
| Source | SPE68 | SPE68 | SPE68 | DSEP | | |

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

Secondary Eclipse Parameters for KIC 006366512-03 / KOI

| Detrend | Depth (ppm) | $R_p (R_{\oplus})$ | $T_{max} (K)$ | $T_{obs} (K)$ | A_{obs} |
|---------|-------------|------------------------|----------------------|------------------------|-----------------------------|
| DV | -6 ± 6 | $0.75^{+0.30}_{-0.28}$ | 2747^{+123}_{-103} | 5308^{+1920}_{-8898} | $9.458^{+21.881}_{-10.292}$ |
| Alt. | -30 ± 9 | $0.68^{+0.29}_{-0.28}$ | 2743^{+117}_{-96} | 8990^{+4758}_{-1906} | 65^{+119}_{-37} |

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 $A_{obs} \gg 1.0$

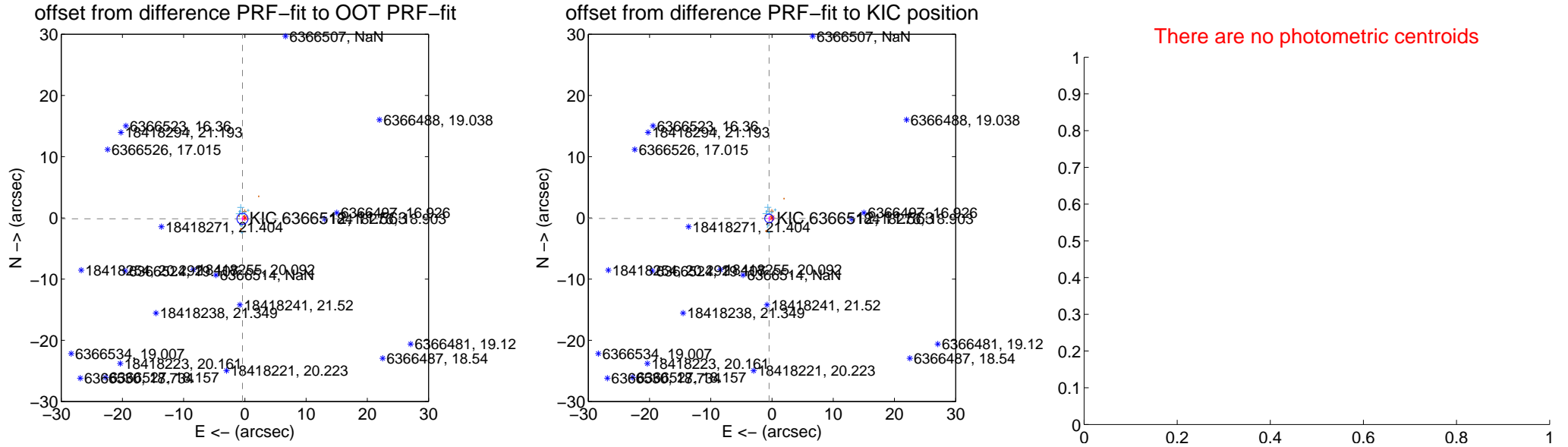
DV Centroid Data

Supplemental centroid analysis for 006366512-03. **Kepler magnitude: 11.56.** Transit SNR 2.28

There are 9 quarters with good PRF difference image offsets

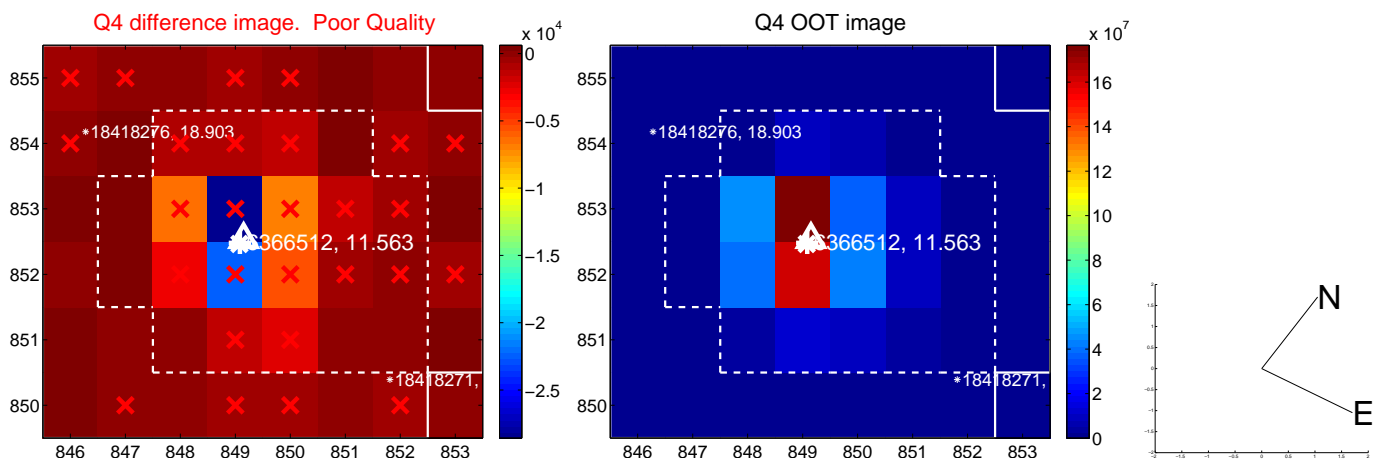
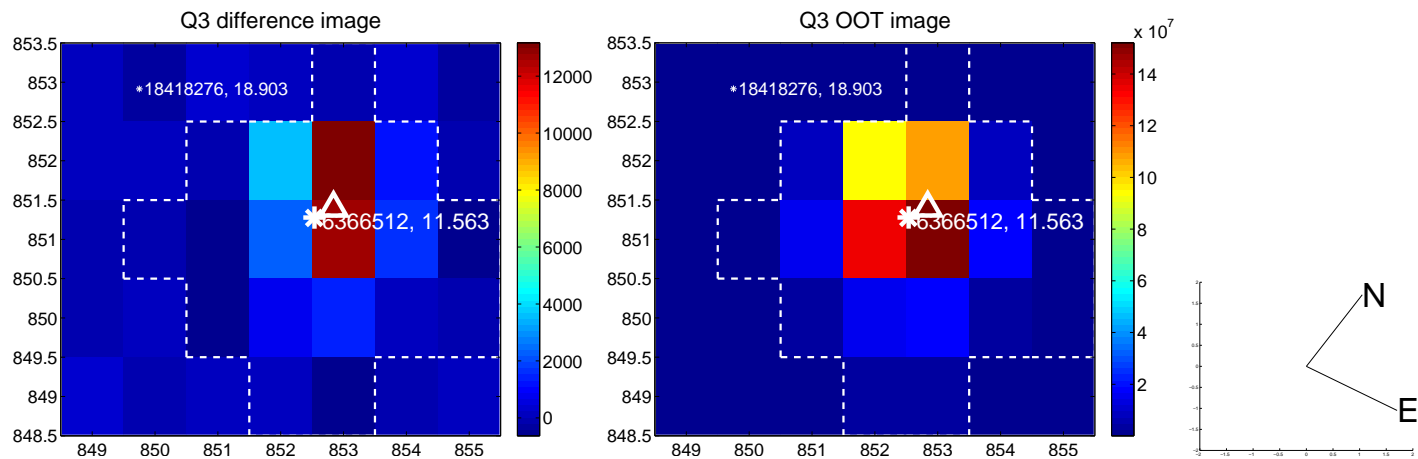
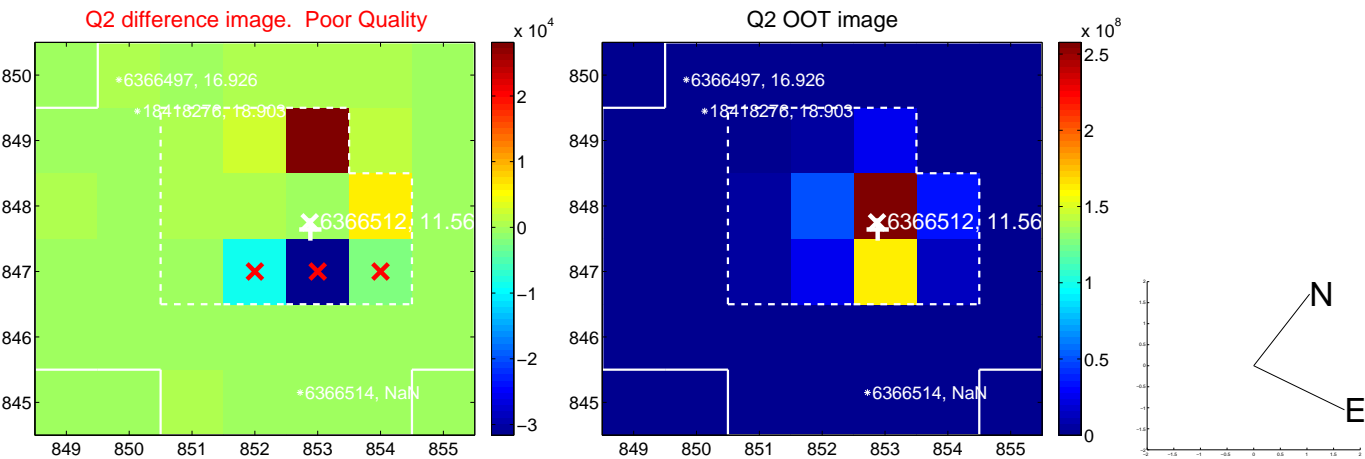
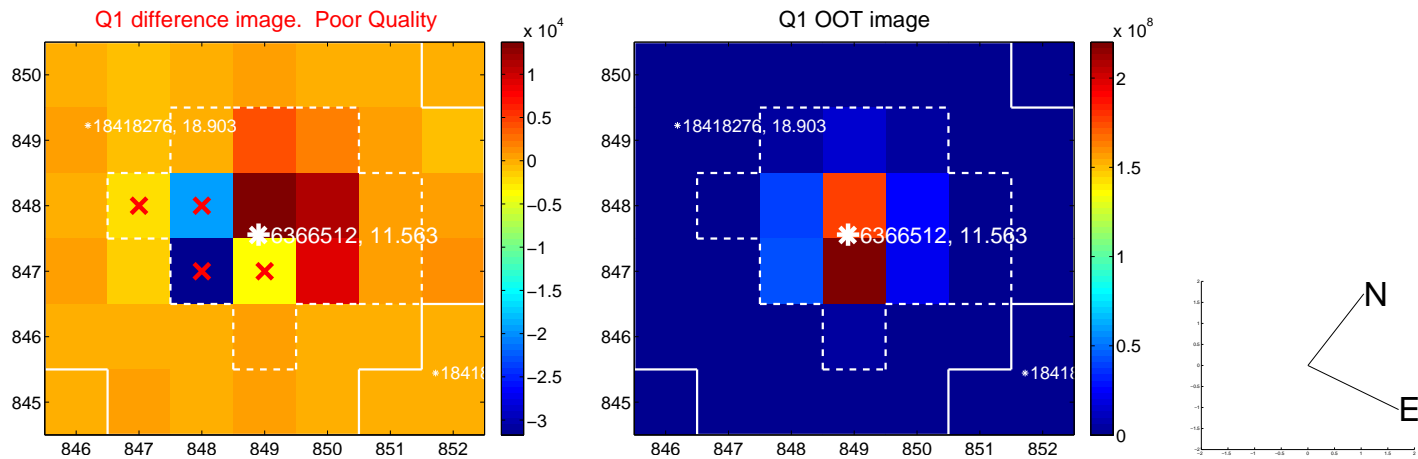
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

| | Distance in arcsec | Distance / σ | Δ RA | Δ Dec |
|---|--------------------|---------------------|-------------------|--------------------|
| PRF-fit source offset from OOT | 0.418 ± 0.301 | 1.39 | 0.391 ± 0.215 | -0.148 ± 0.380 |
| PRF-fit source offset from KIC position | 0.489 ± 0.235 | 2.08 | 0.480 ± 0.191 | -0.093 ± 0.367 |
| photometric centroid source offset | — | — | — | — |

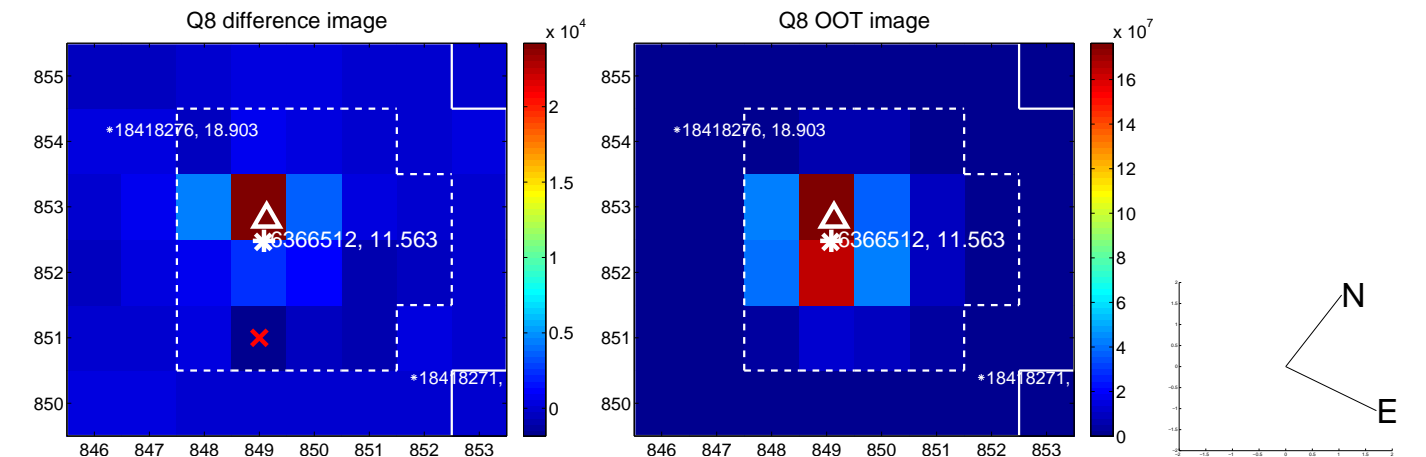
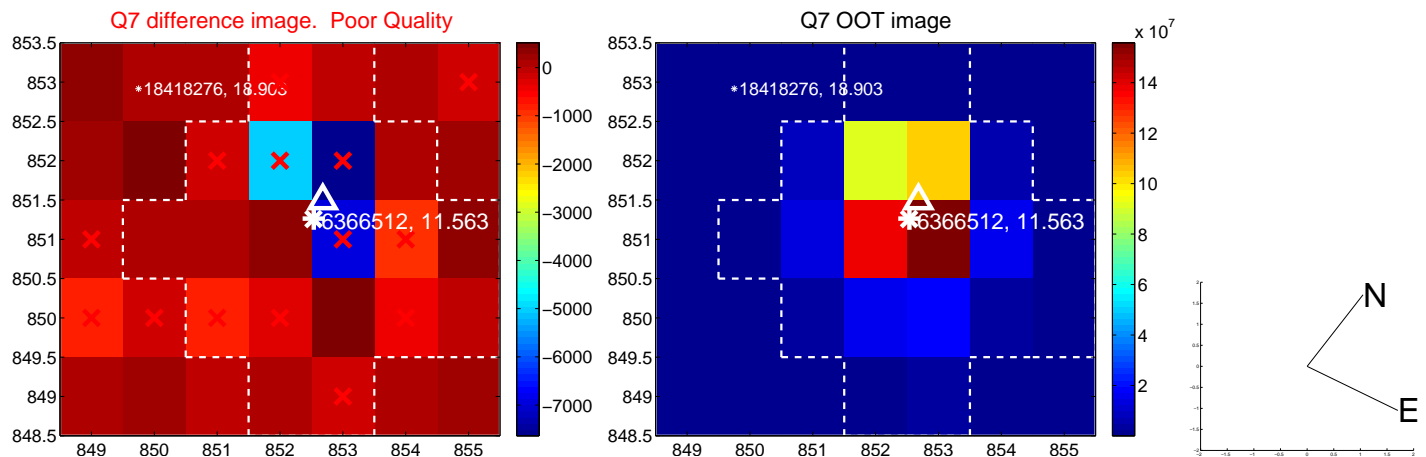
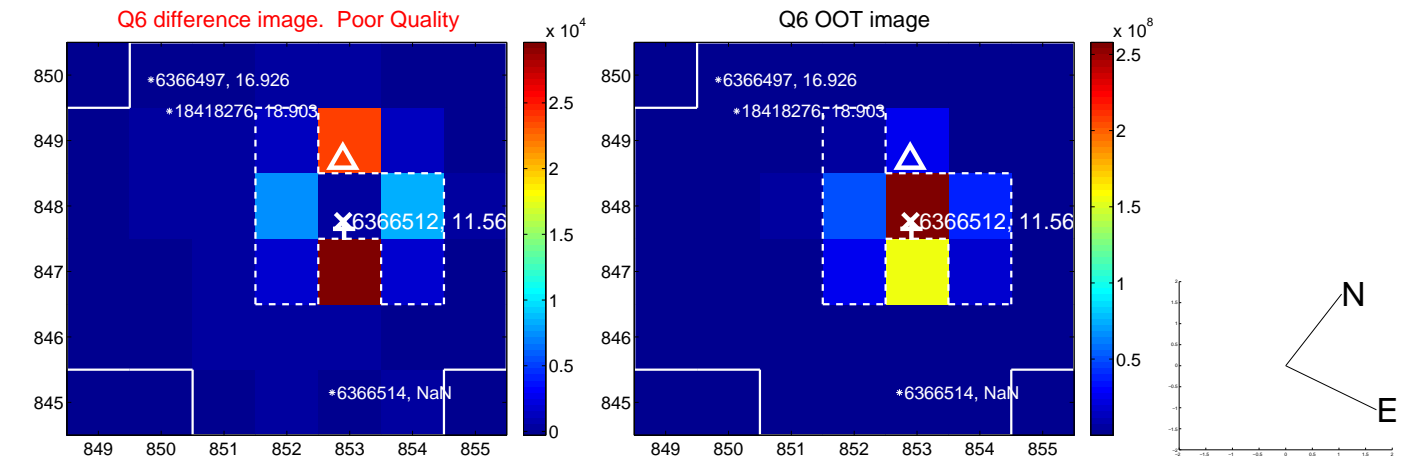
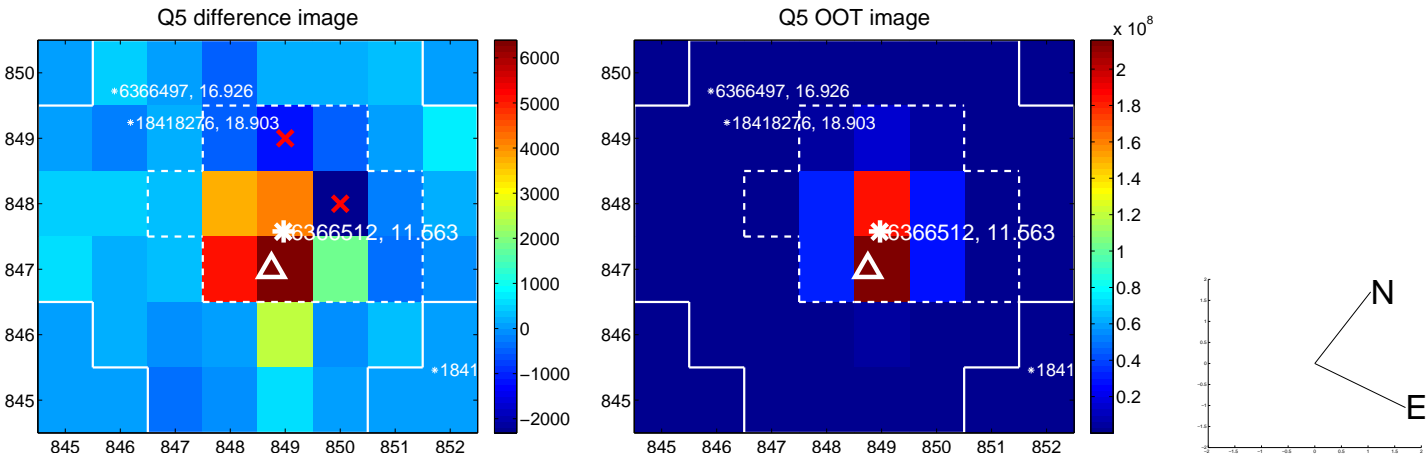


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

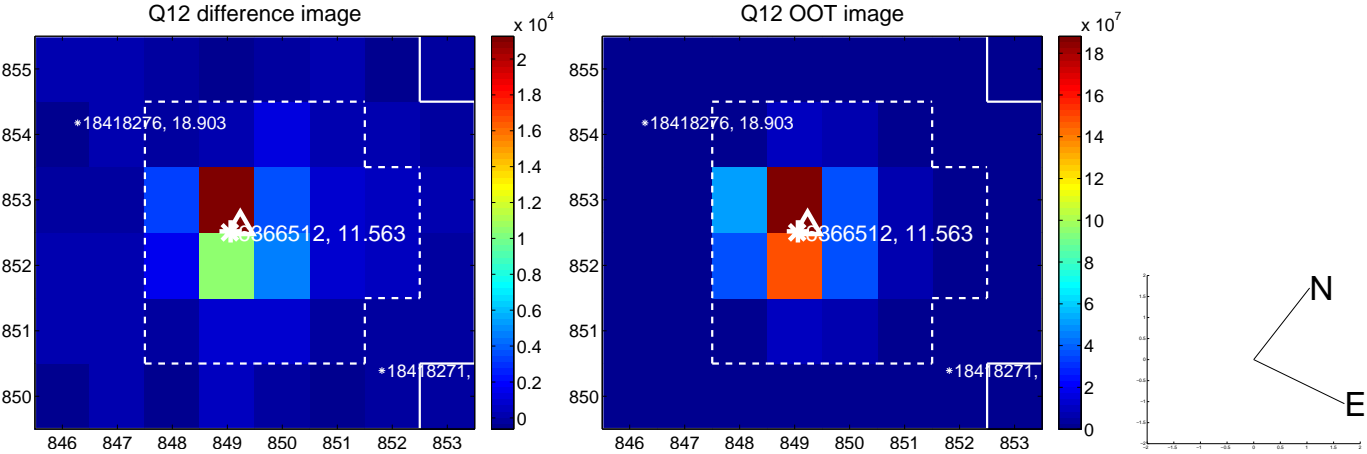
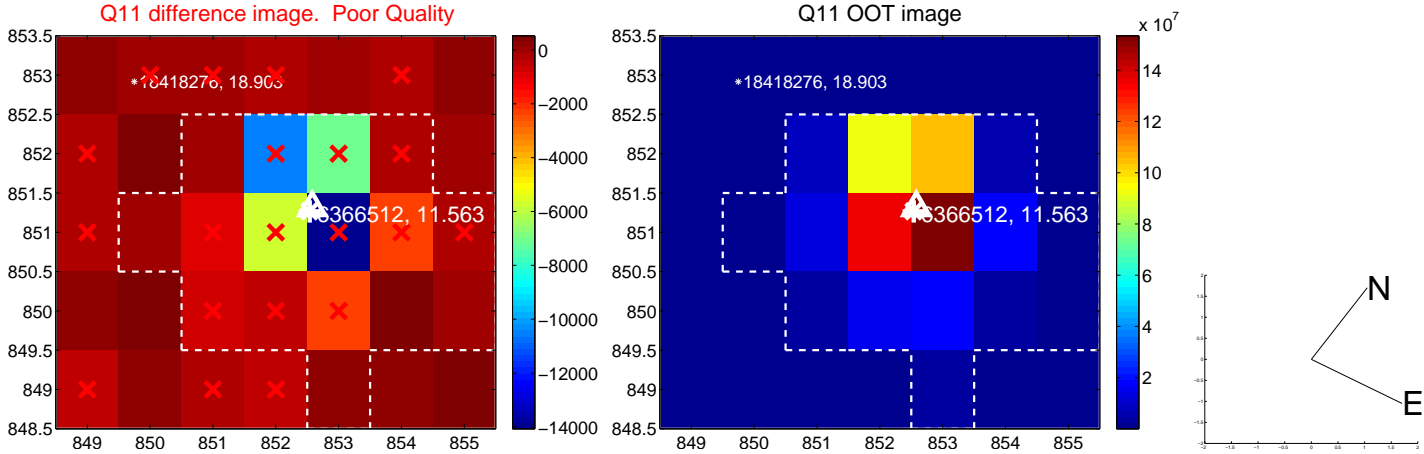
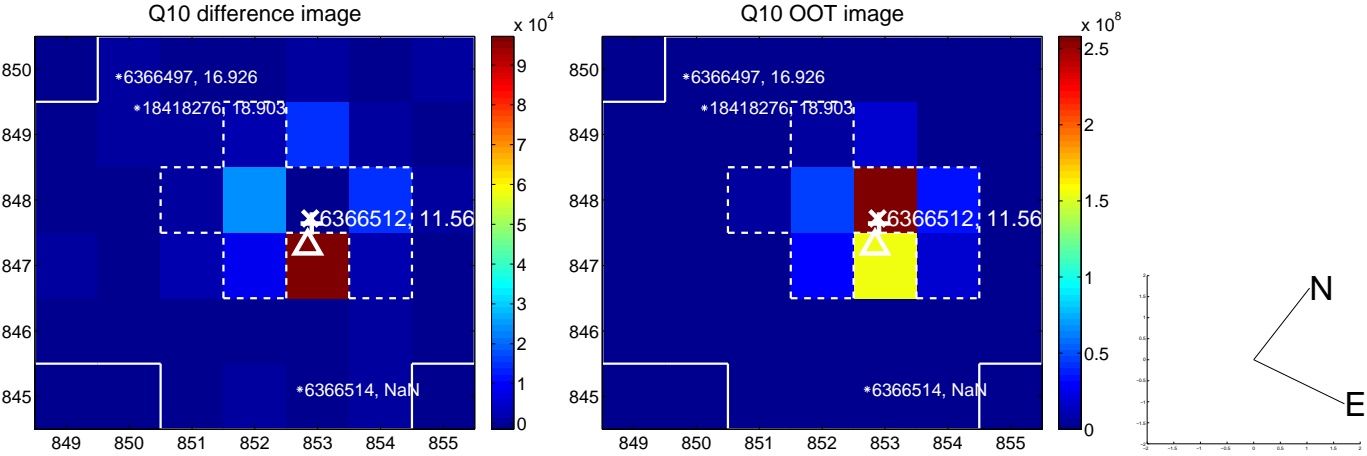
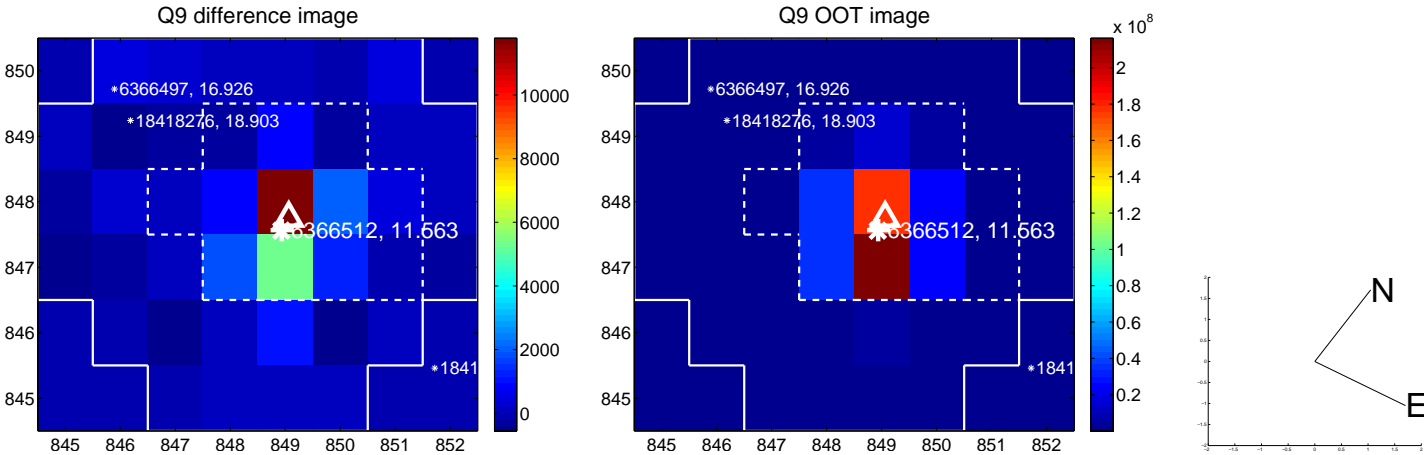
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



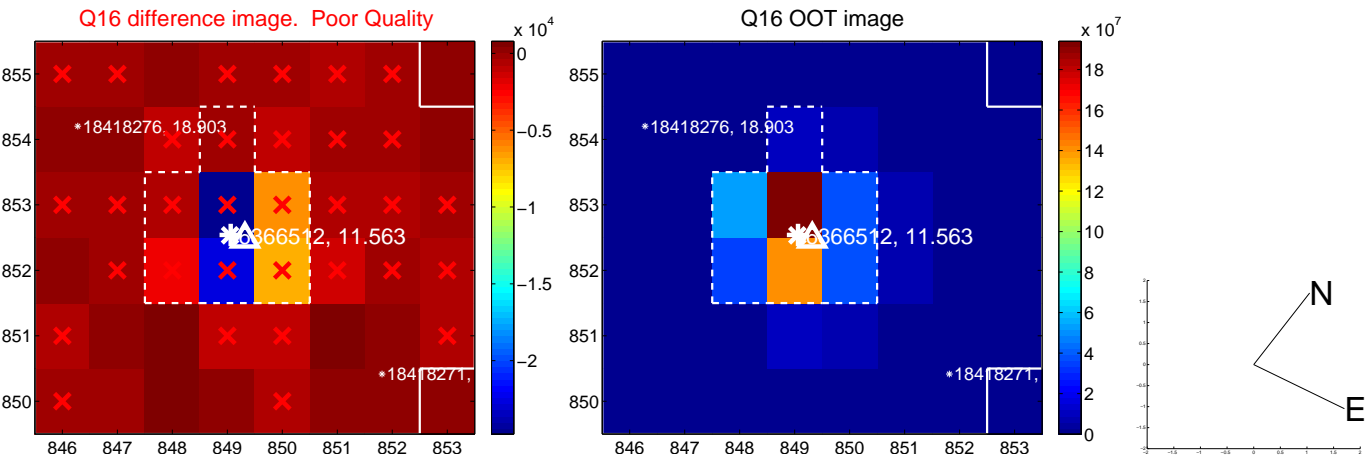
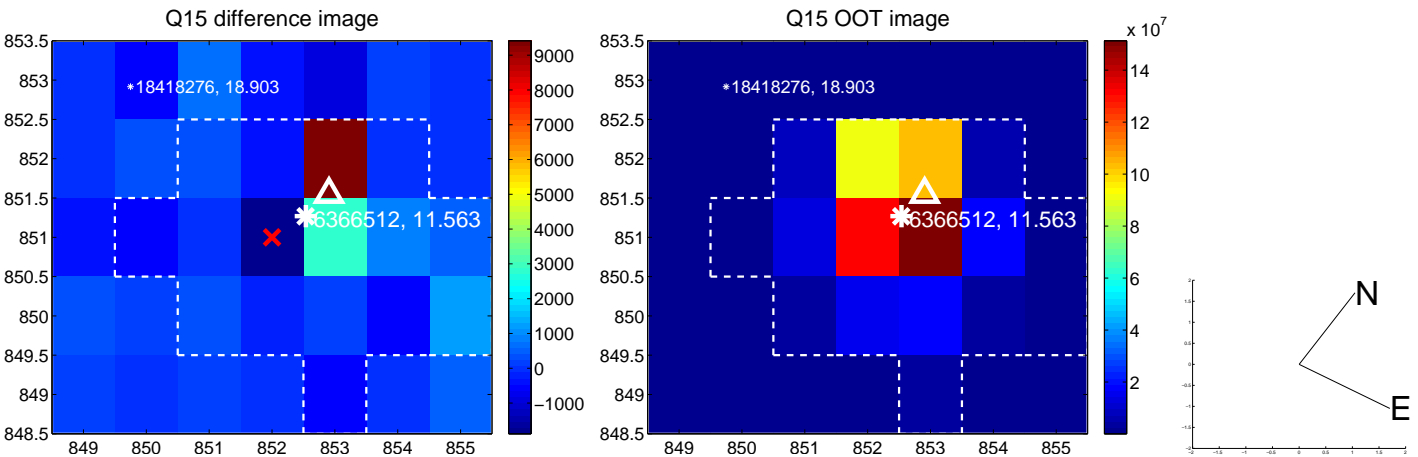
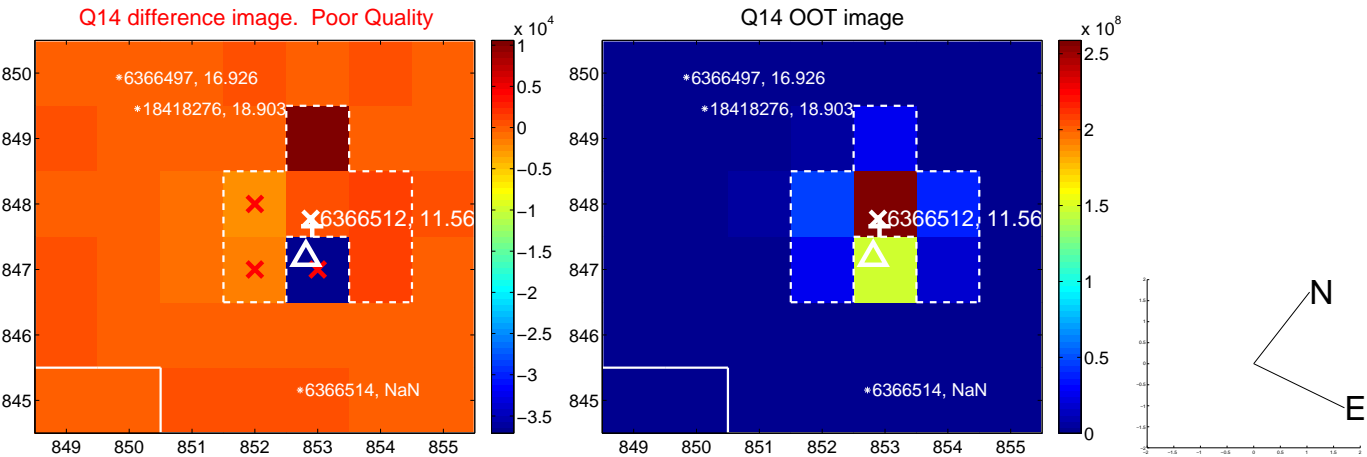
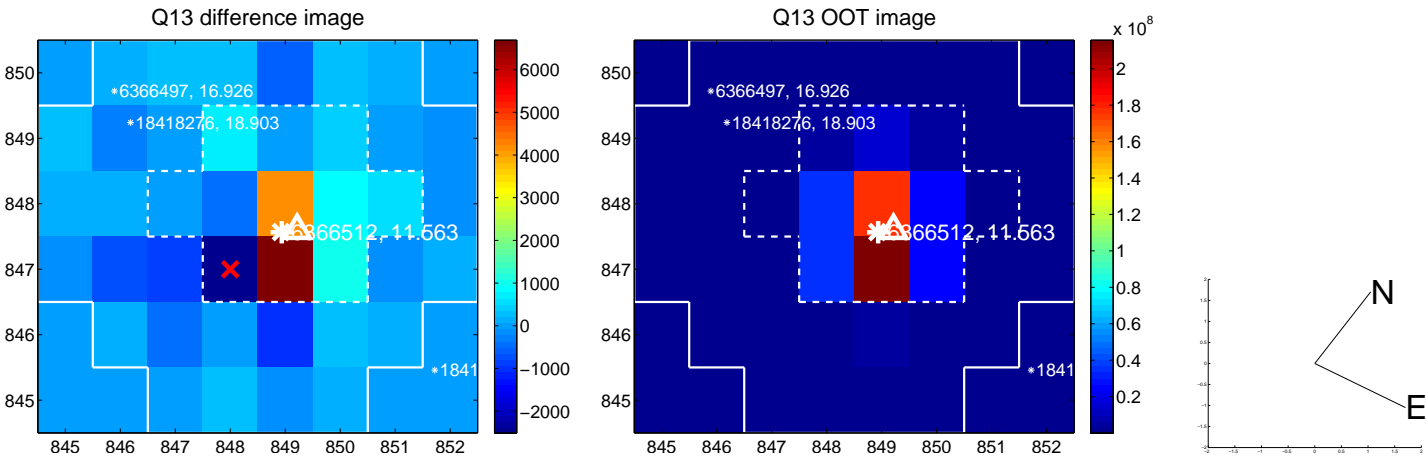
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



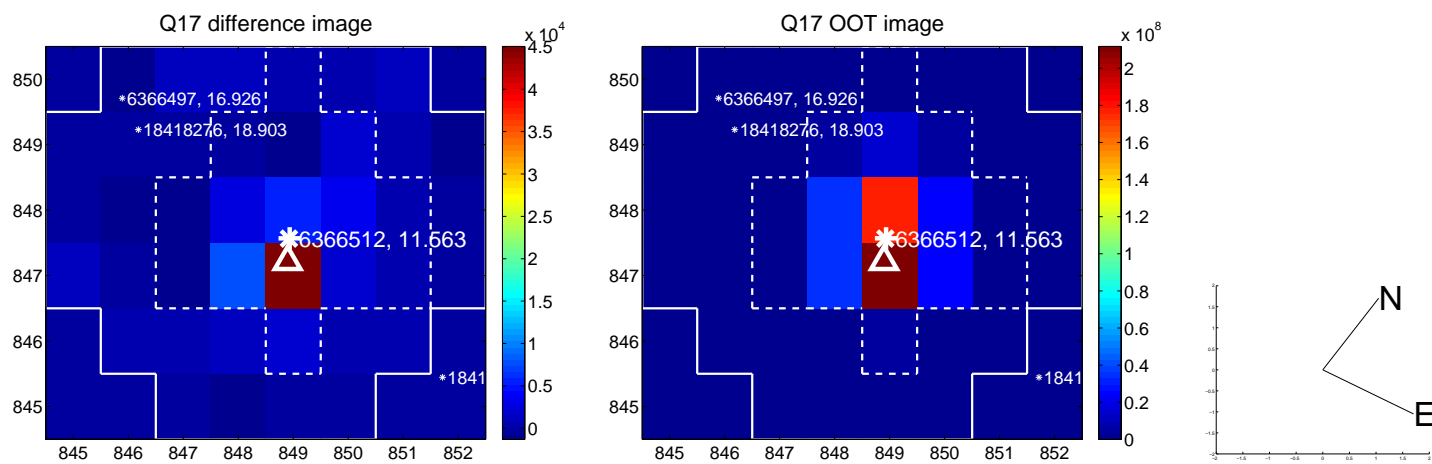
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



folded centroid time series figure for this object.

UKIRT Image

