

KIC 006805146

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})
006805146-01	OBS	0668.01	13.779710	137.348931	25602.5	7.659	2796.2	2655.7	2.95	6444	47.80	850.06
006805146-02	OBS	No	13.779685	145.272784	548.4	6.645	60.6	65.4	2.95	6444	7.99	850.06
006805146-03	OBS	No	0.954019	131.883726	27.3	5.142	9.6	11.7	2.95	6444	1.55	29901.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006805146-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—HAS_SEC_TCE
006805146-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006805146-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV

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.

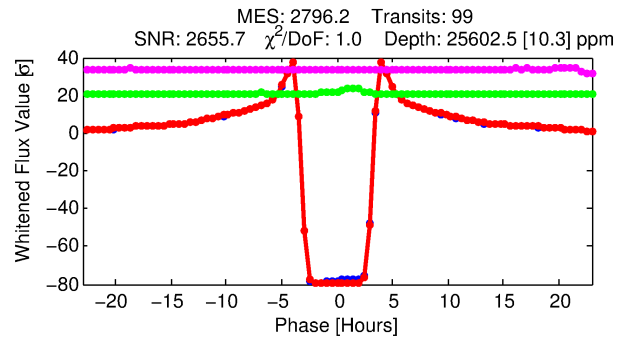
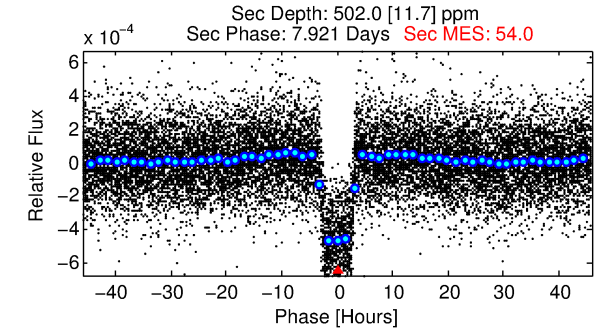
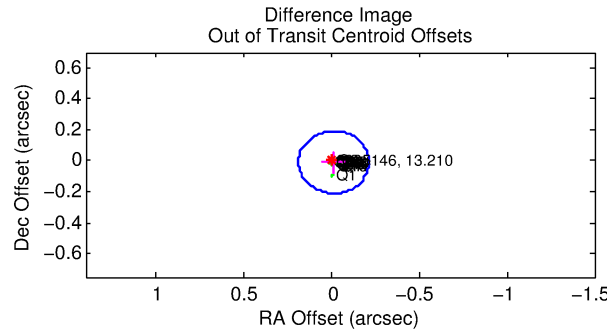
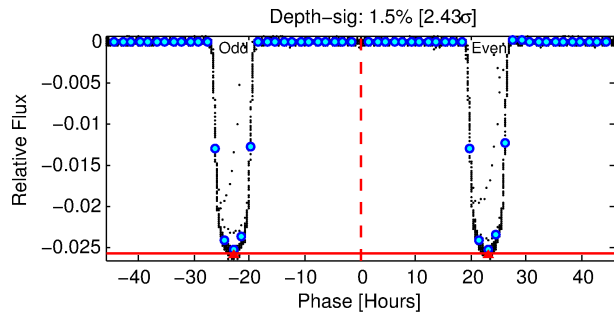
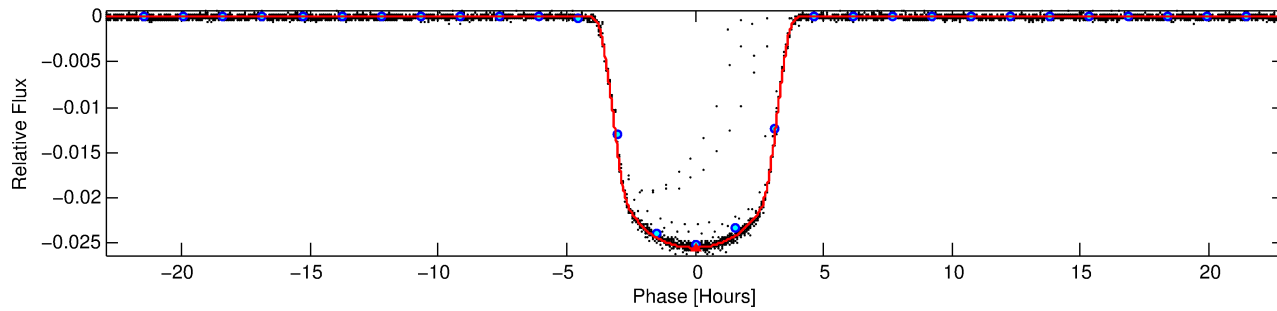
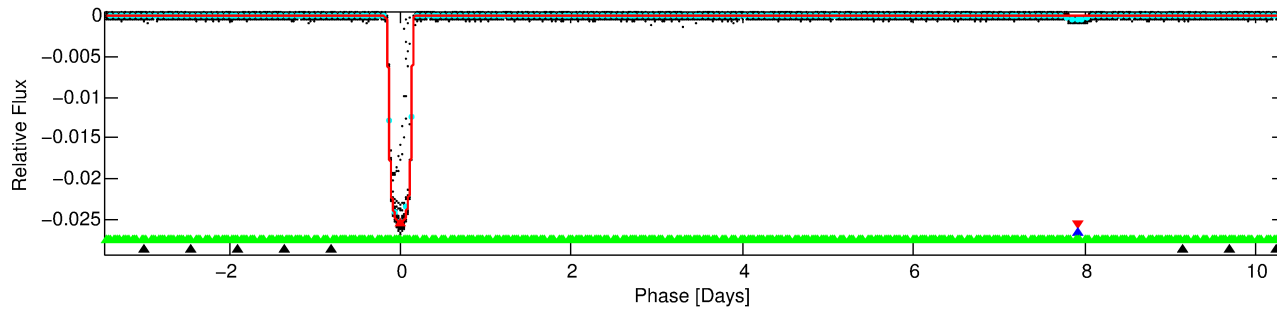
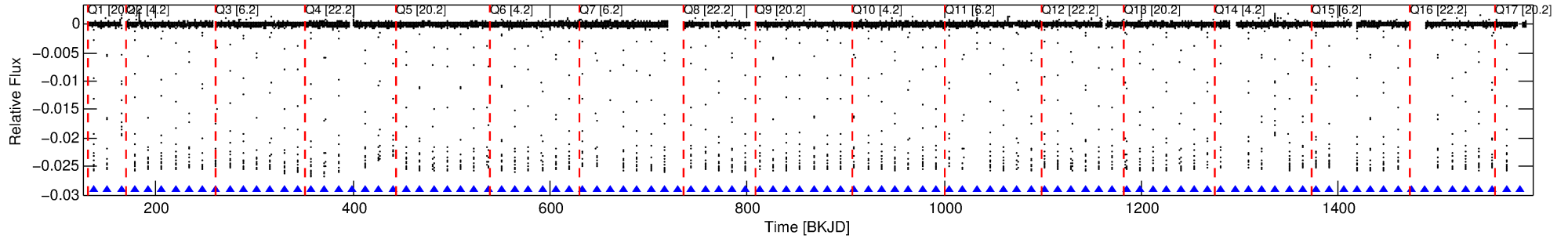
Ephemeris Match Information For 006805146-01

No Significant Match Found

DV One-Page Summary

KIC: 6805146 Candidate: 1 of 4 Period: 13.780 d
KOI: K00668.01 Corr: 0.968

Kp: 13.21 R*: 2.95 Rs Teff: 6444.0 K Logg: 3.64 Fe/H: -0.480



DV Fit Results:

Period = 13.77971 [0.00000] d
Epoch = 137.3489 [0.0000] BKJD
Rp/R* = 0.1486 [0.0001]
a/R* = 15.35 [0.02]
b = 0.27 [0.00]
Seff = 850.06 [502.30]
Teq = 1377 [203] K
Rp = 47.80 [18.52] Re
a = 0.1256 [0.0459] AU
Ag = 1.91 [1.10] [0.82σ]
Teffp = 2502 [77] K [5.17σ]

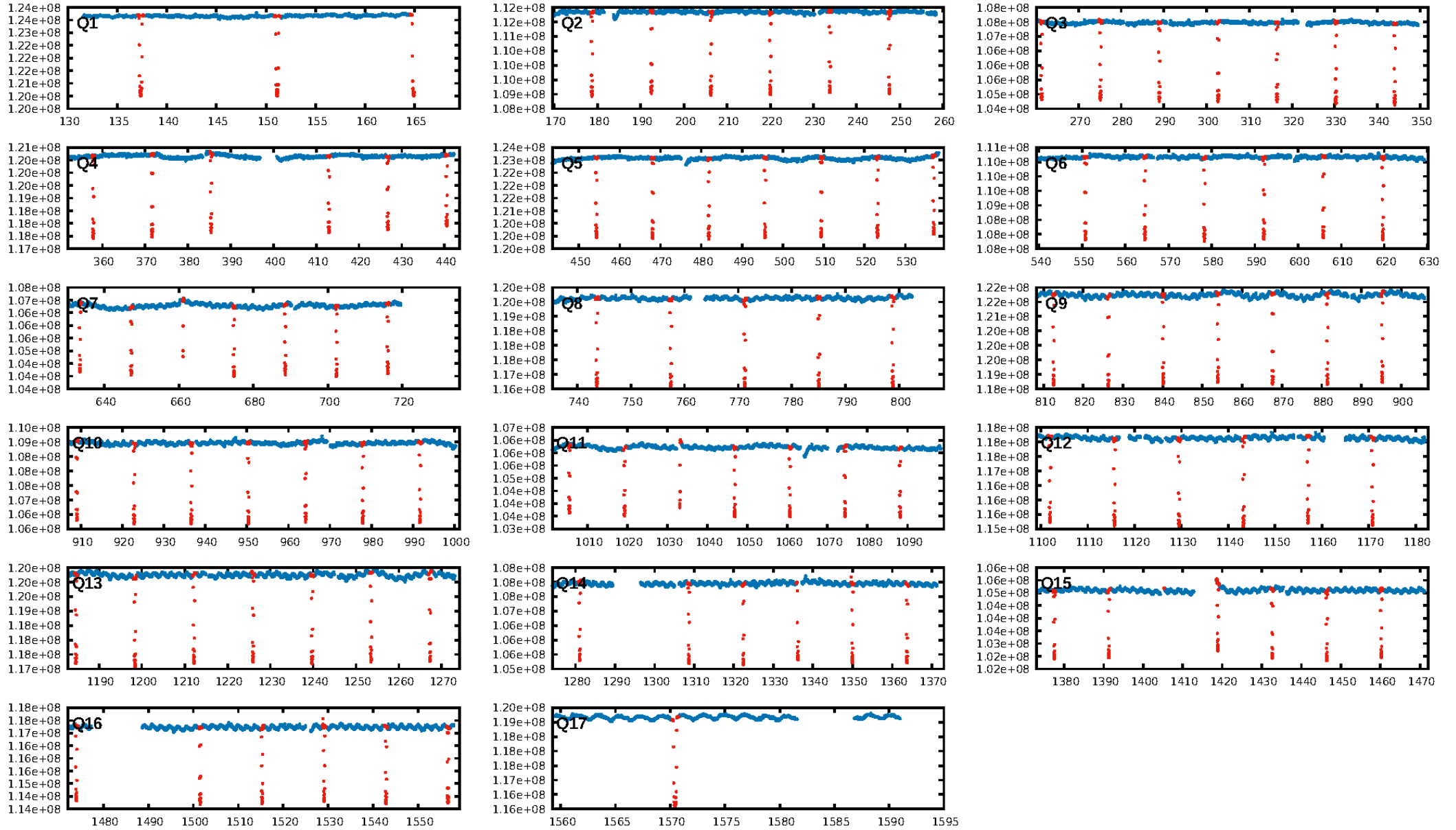
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [402.17σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [95/95]
GhostDiagnostic-chr: 4.994
Centroid-sig: 0.0%
Centroid-so: 0.225 arcsec [90.38σ]
OotOffset-rm: 0.016 arcsec [0.25σ]
KicOffset-rm: 0.130 arcsec [1.93σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

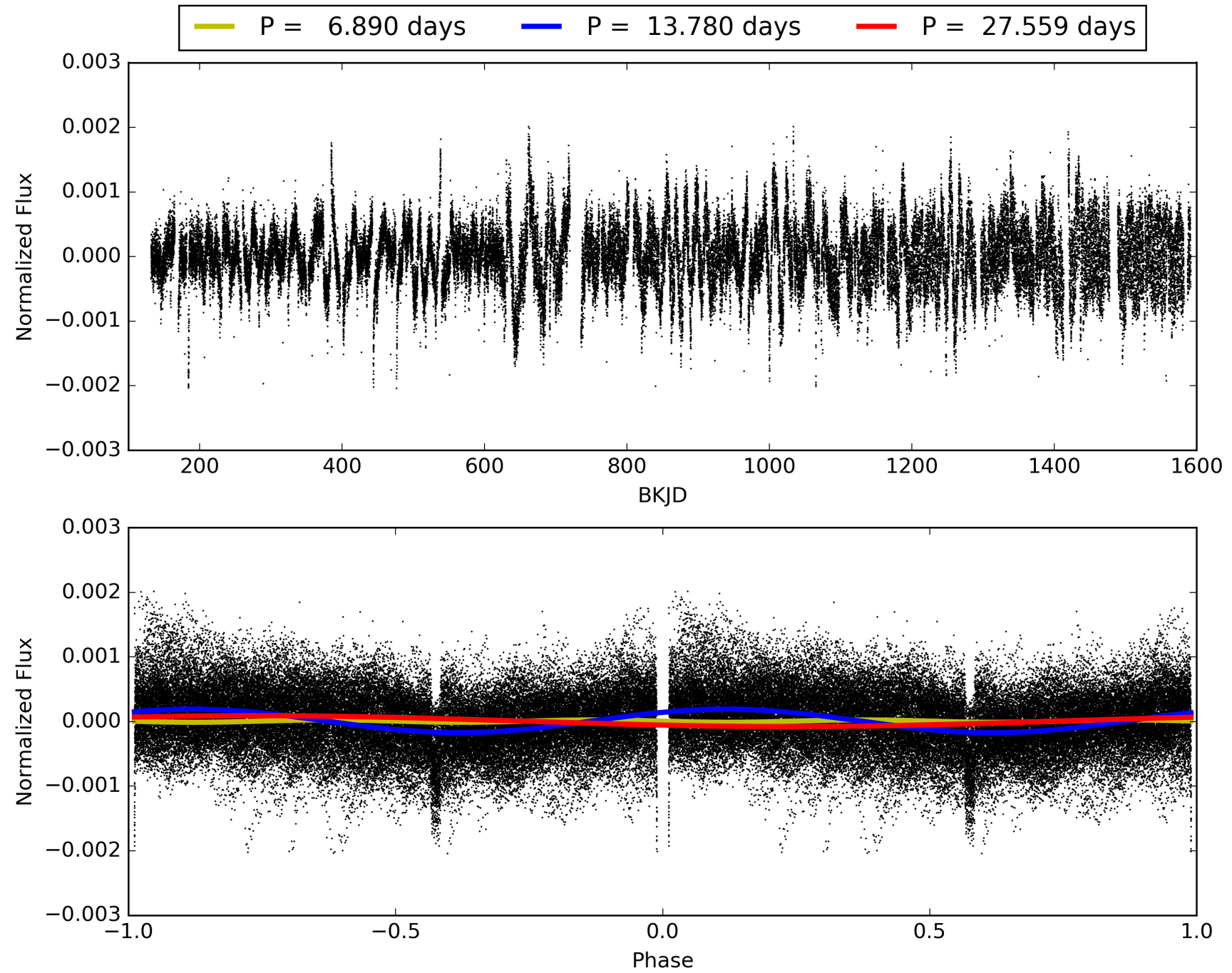
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 20:05:28 Z

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

TCE 006805146-01, PDC Light Curves

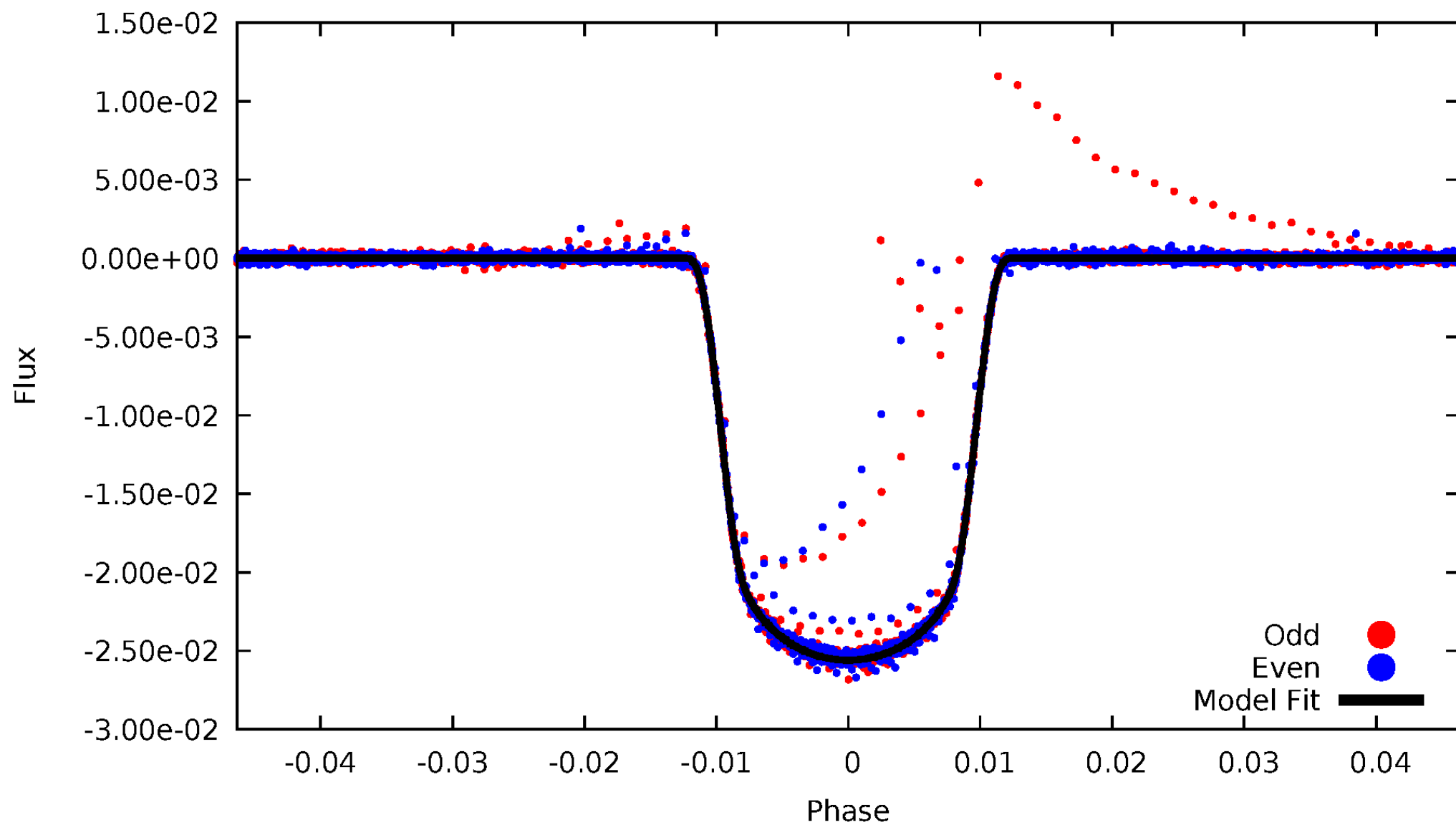


TCE 006805146-01



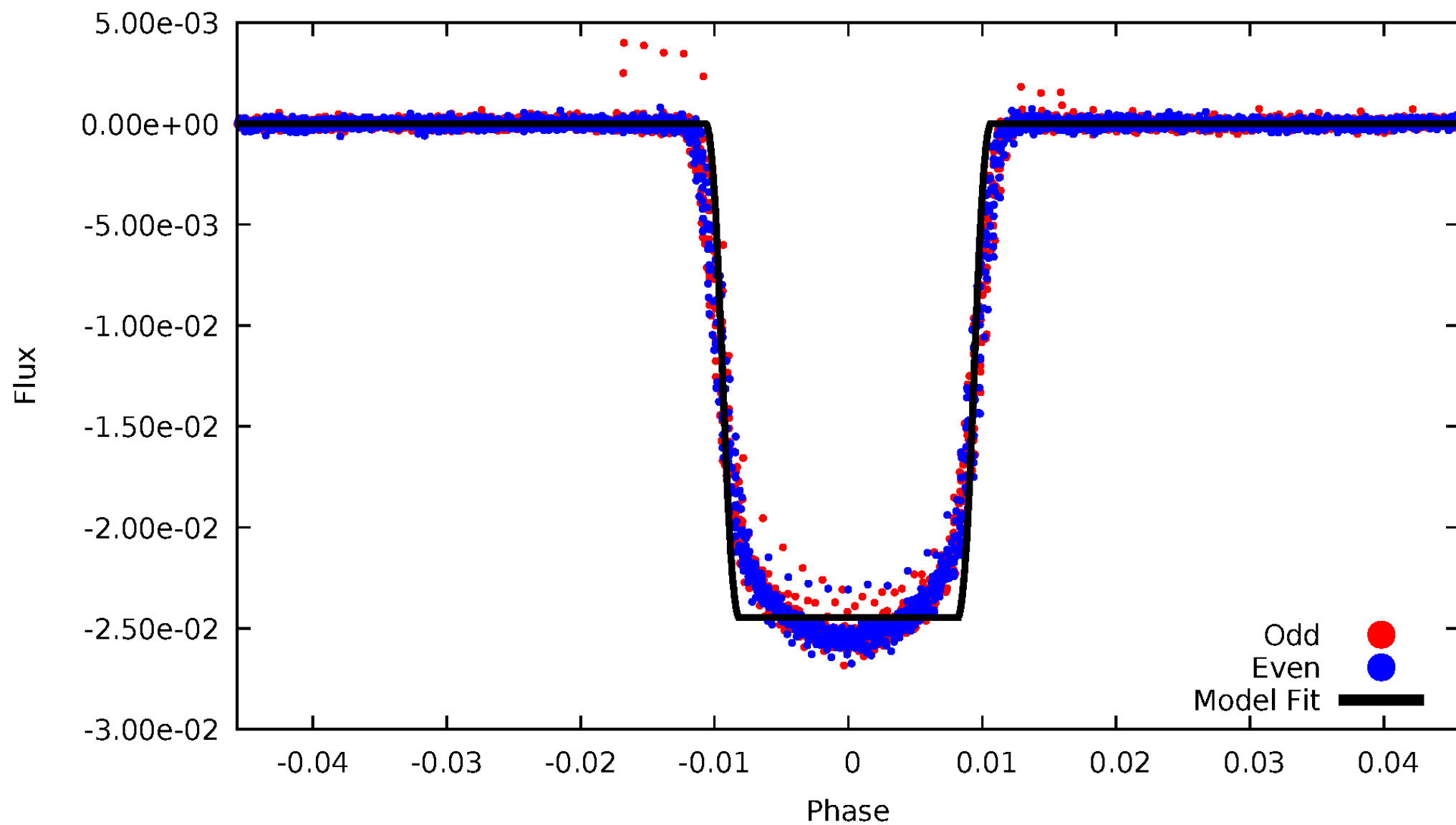
DV Odd/Even

TCE 006805146-01



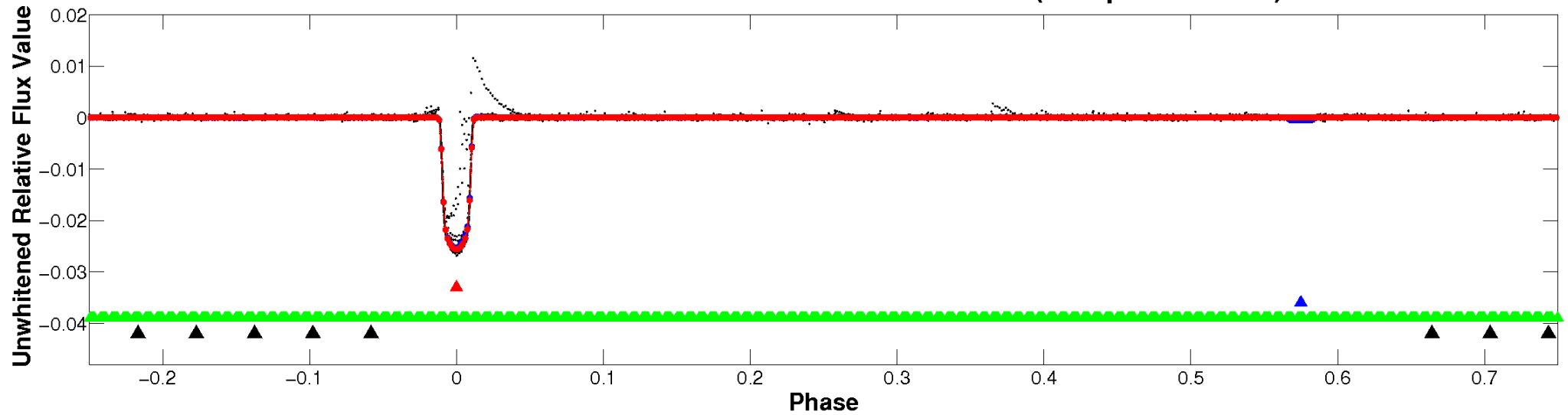
ALT Odd/Even

TCE 006805146-01

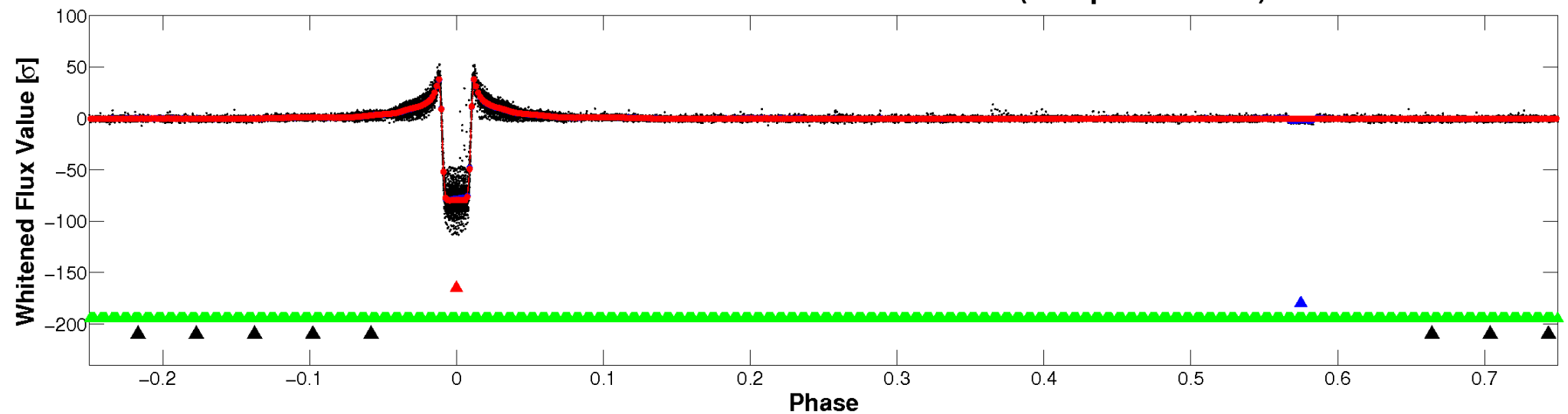


Non-Whitened Vs. Whitened Light Curve

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

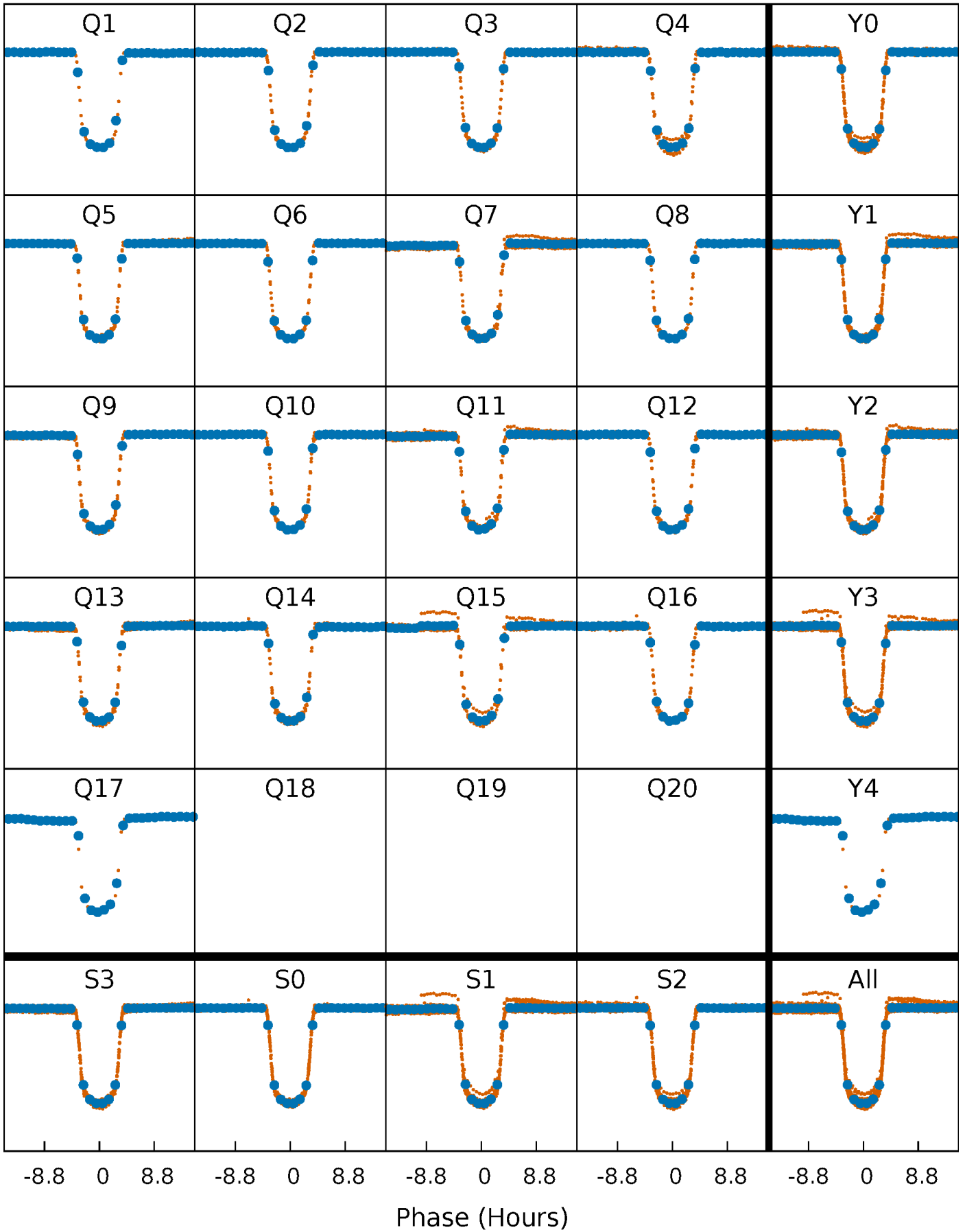


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



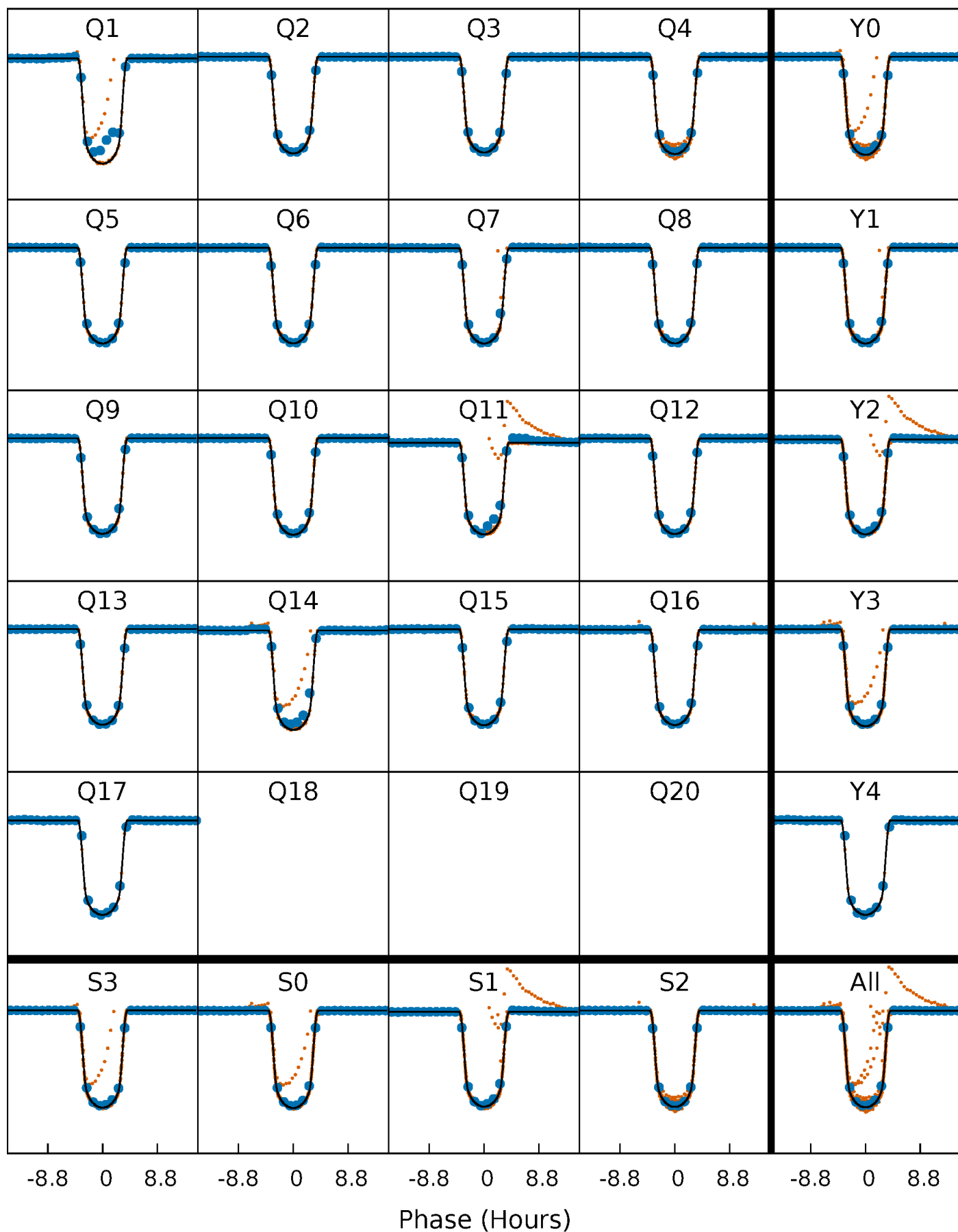
PDC Quarter-Phased Transit Curves

TCE 006805146-01 P= 13.779710 Days $T_0=137.348931$ (BKJD)



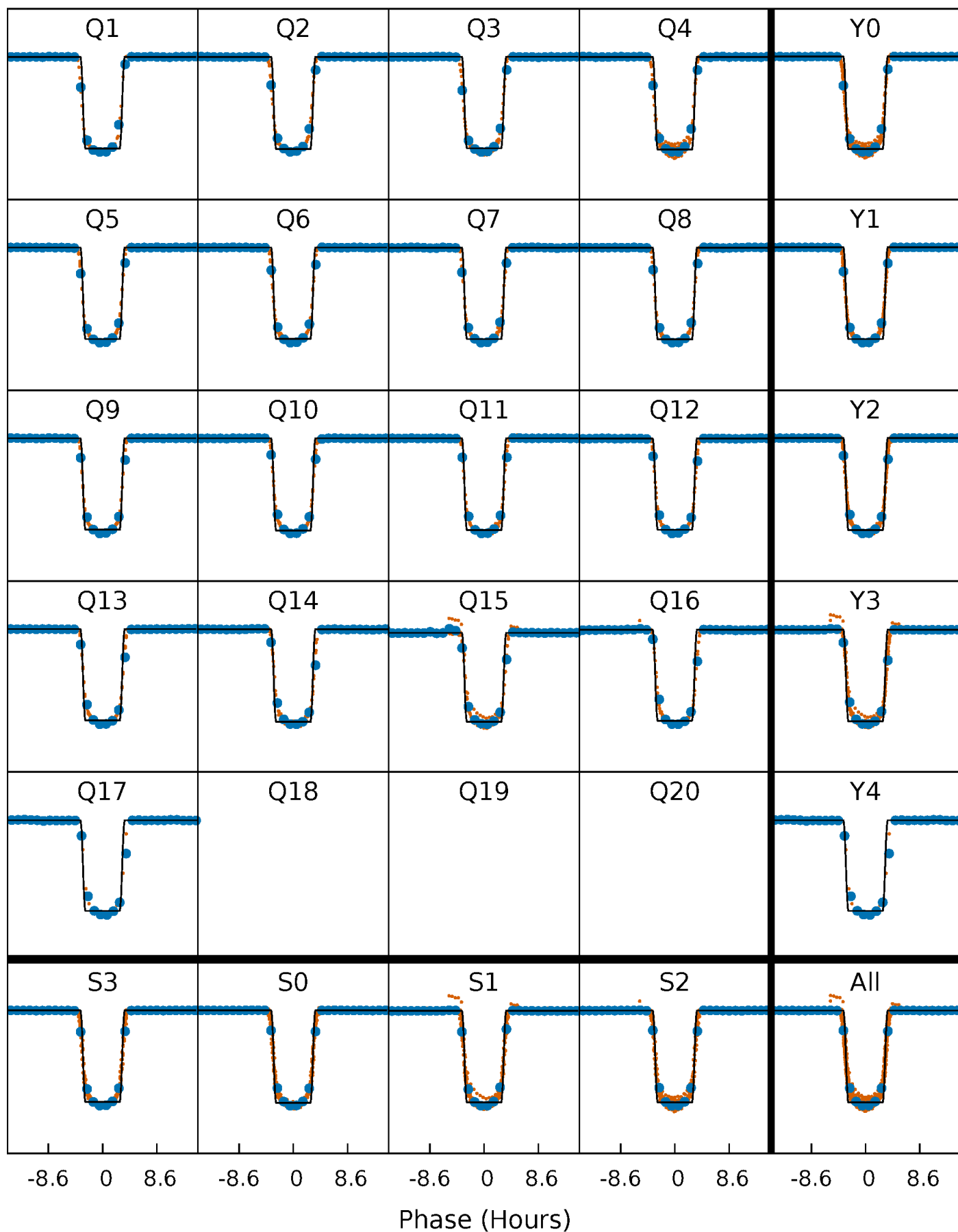
DV Quarter-Phased Transit Curves

TCE 006805146-01 P= 13.779710 Days $T_0=137.348931$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

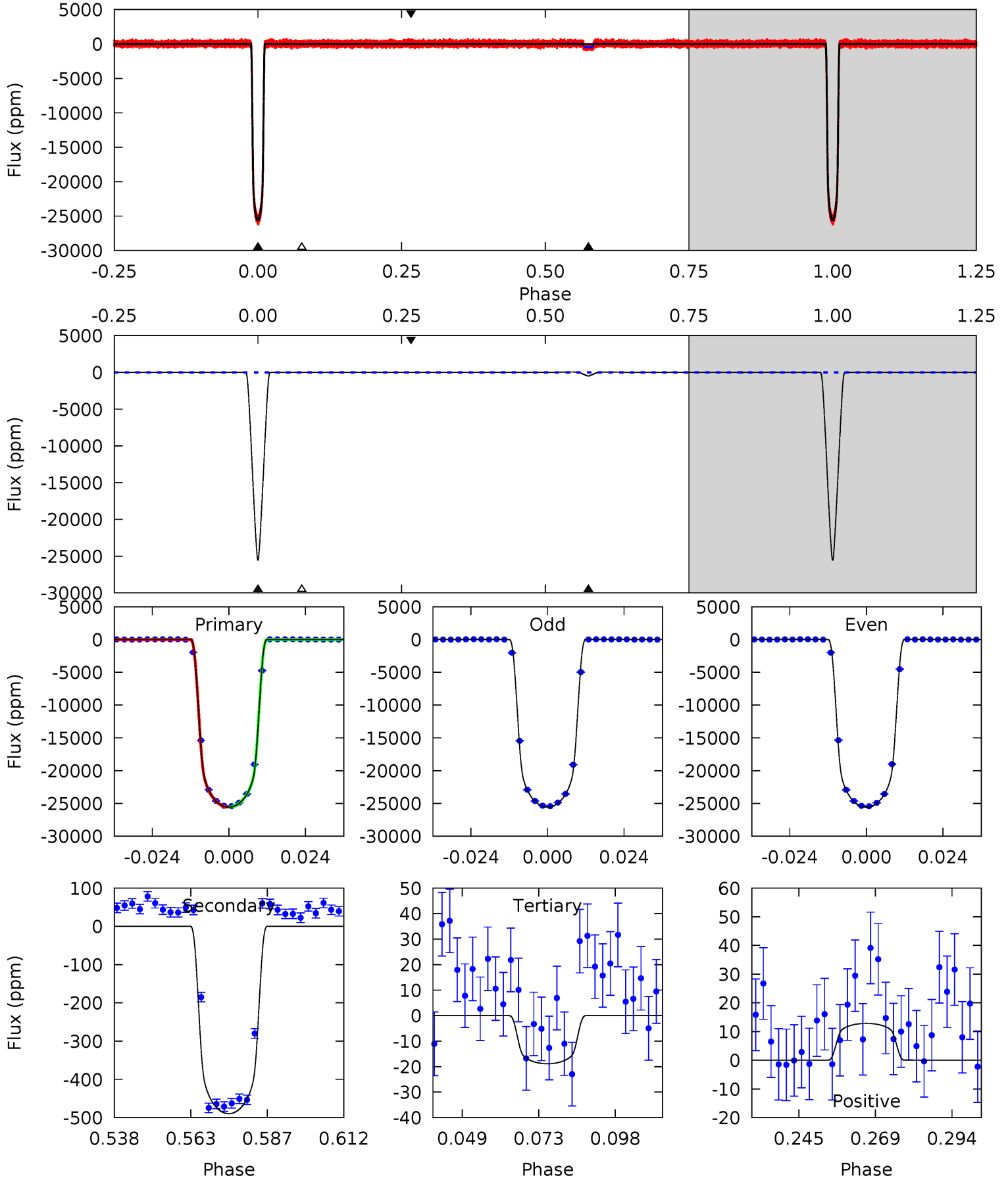
TCE 006805146-01 P= 13.779564 Days $T_0=137.356177$ (BKJD)



DV Model-Shift Uniqueness Test

006805146-01, P = 13.779710 Days, E = 123.569221 Days

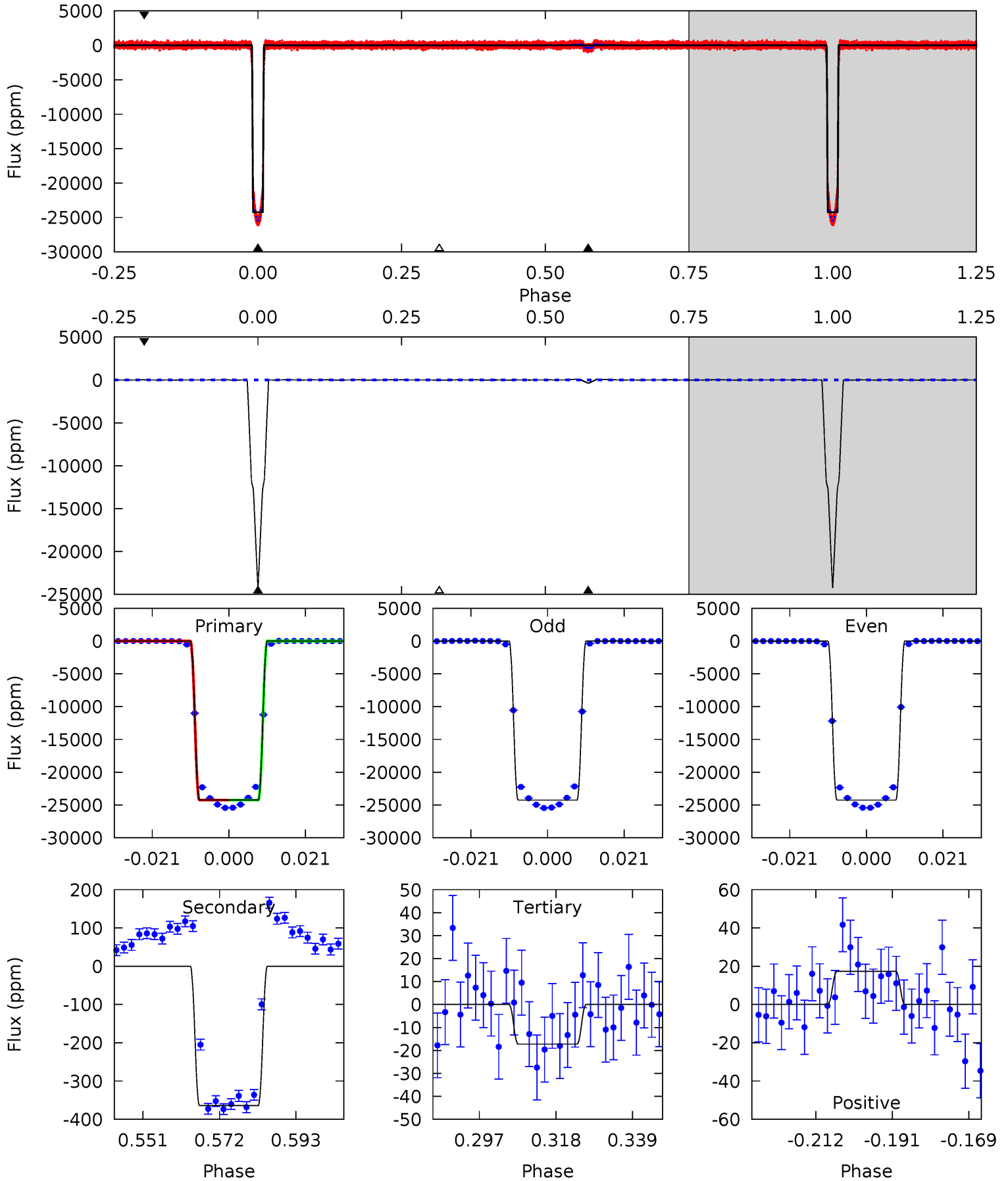
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6092	116.7	4.49	3.06	4.85	2.25	2.75	6087	6089	112.2	113.6	1.95	0.97	0.00	0.81



Alt Model-Shift Uniqueness Test

006805146-01, P = 13.779564 Days, E = 123.576613 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4479	67.3	3.19	3.19	4.88	2.30	2.09	4476	4476	64.1	64.1	0.85	1.00	0.00	1.27



Stellar Parameters For KIC 006805146

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6444^{+196}_{-177}	$3.643^{+0.337}_{-0.112}$	$-0.480^{+0.400}_{-0.250}$	$2.947^{+0.489}_{-1.142}$	$1.393^{+0.256}_{-0.313}$	$0.077^{+0.190}_{-0.026}$
	+3%/-3%	+9%/-3%	+83%/-52%	+17%/-39%	+18%/-22%	+248%/-35%
Source	PHO1	FLK73	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 006805146-01 / KOI 0668.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-490 ± 4	$47.88^{+4.99}_{-9.78}$	1898^{+111}_{-170}	3042^{+56}_{-51}	$1.956^{+0.853}_{-0.356}$
Alt.	-364 ± 5	$50.44^{+5.32}_{-11.12}$	1901^{+117}_{-170}	2843^{+52}_{-52}	$1.305^{+0.627}_{-0.235}$

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 $A_{obs} \gg 1.0$

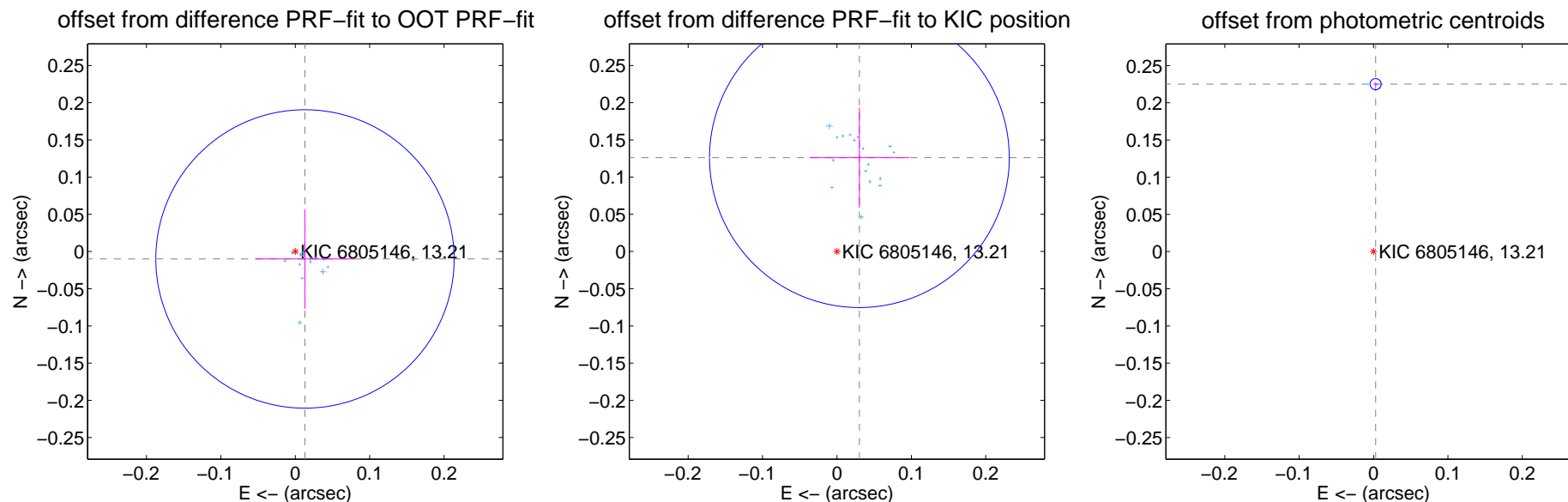
DV Centroid Data

Supplemental centroid analysis for 006805146-01. Kepler magnitude: 13.21. Transit SNR 2655.73

There are 17 quarters with good PRF difference image offsets

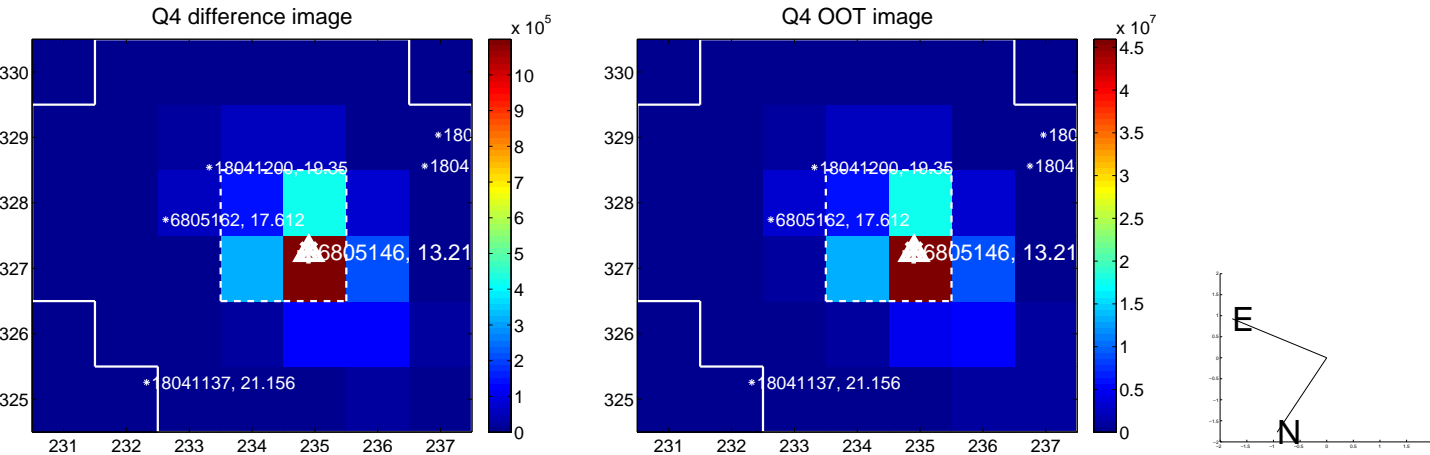
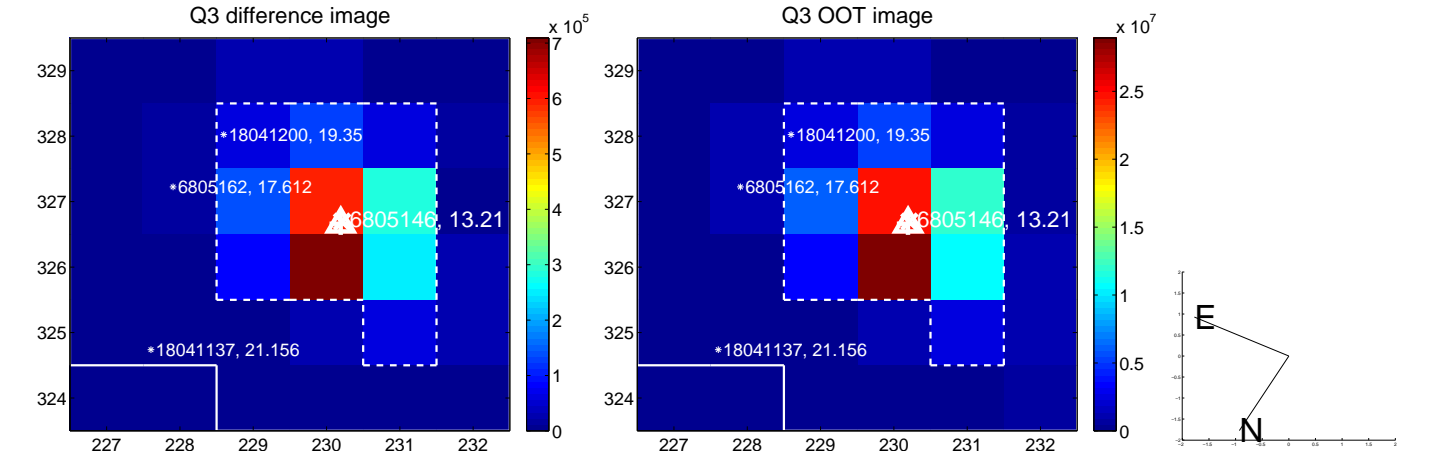
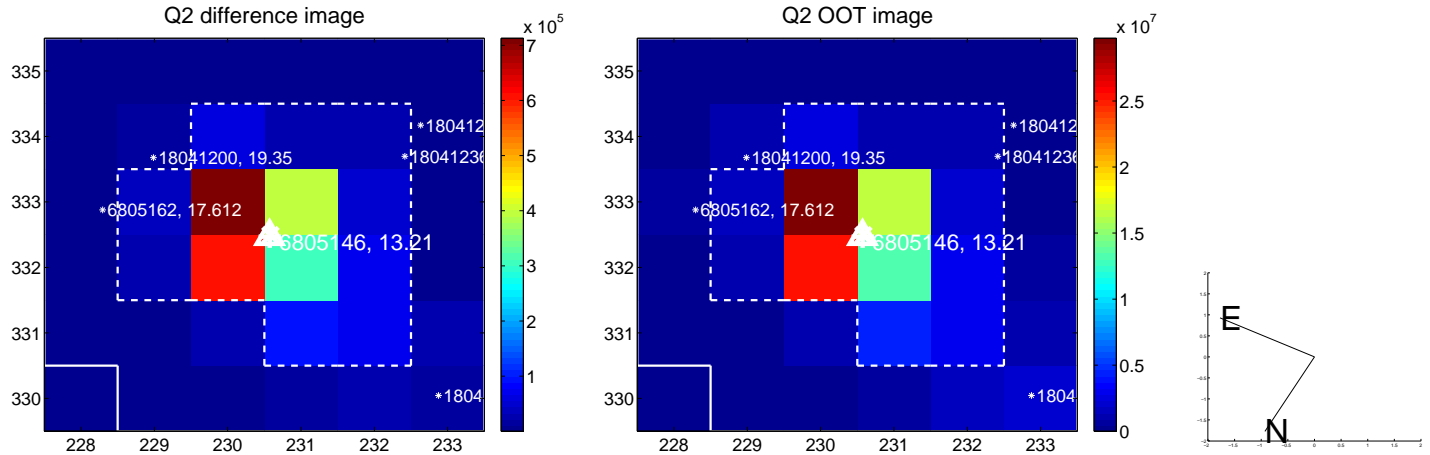
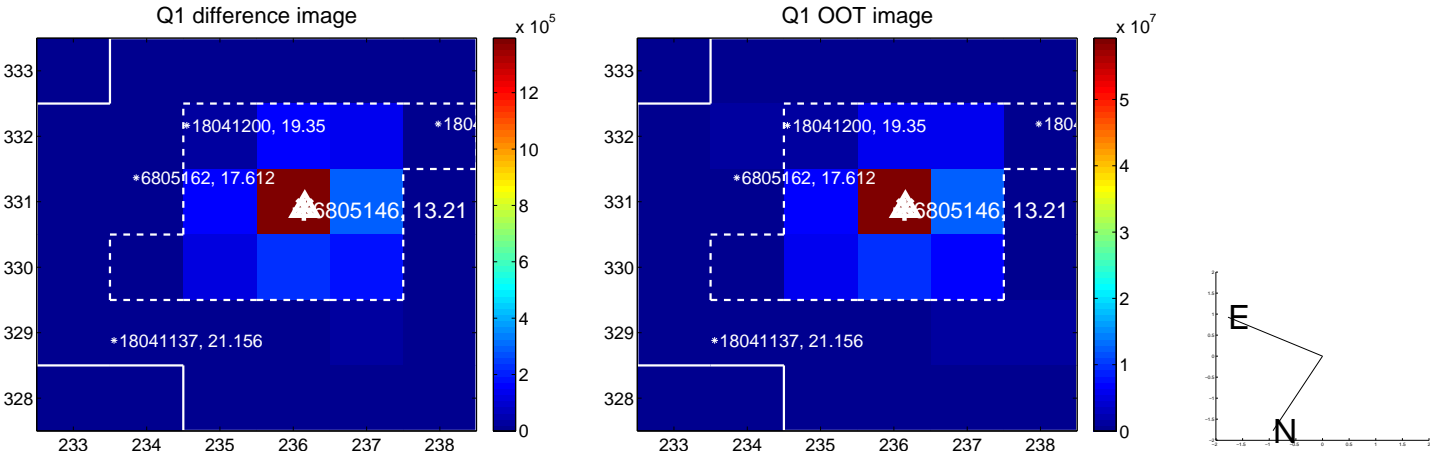
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.016 ± 0.067	0.25	-0.013 ± 0.067	-0.010 ± 0.067
PRF-fit source offset from KIC position	0.130 ± 0.067	1.93	-0.030 ± 0.067	0.126 ± 0.067
photometric centroid source offset	0.23 ± 0.00	90.38	-0.00 ± 0.00	0.23 ± 0.00

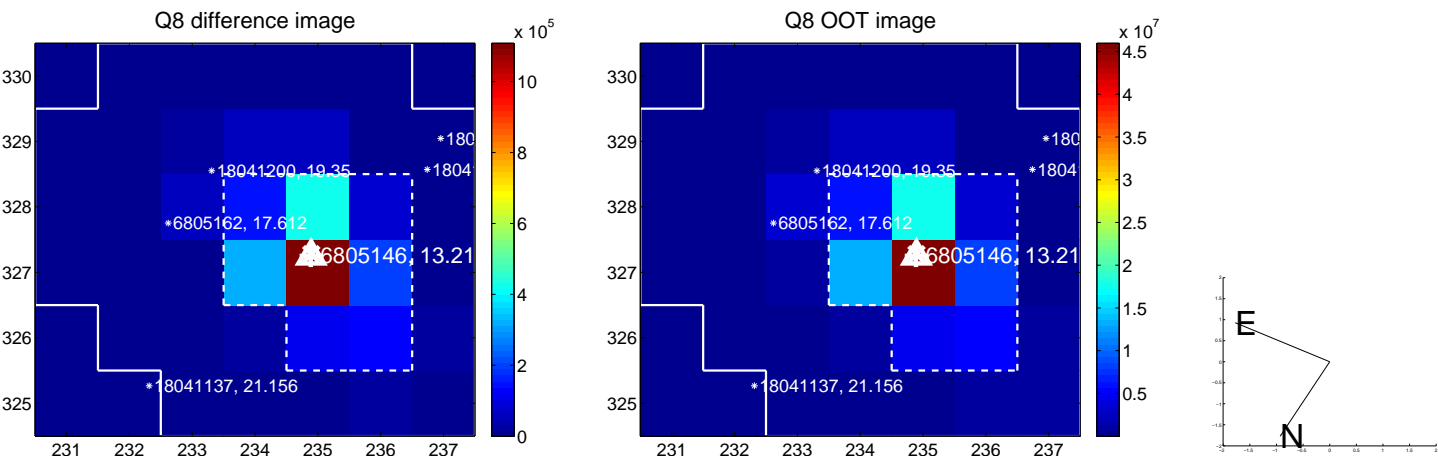
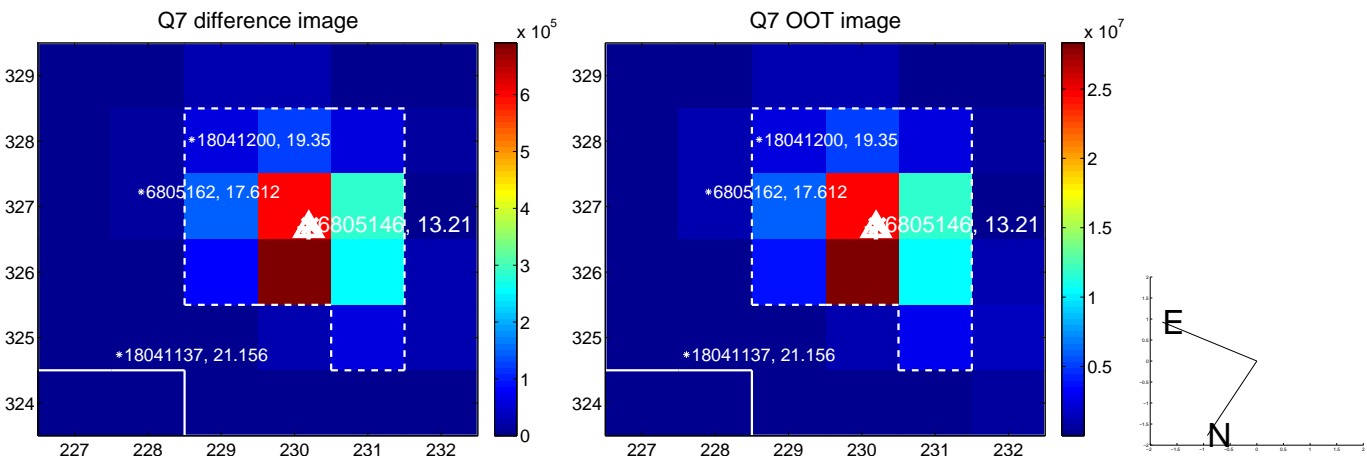
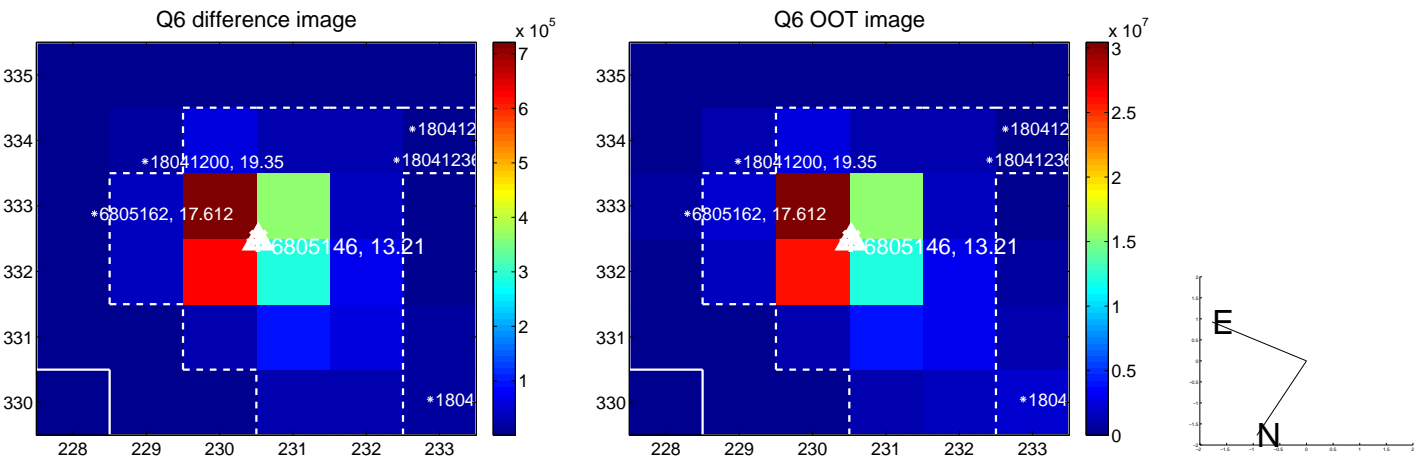
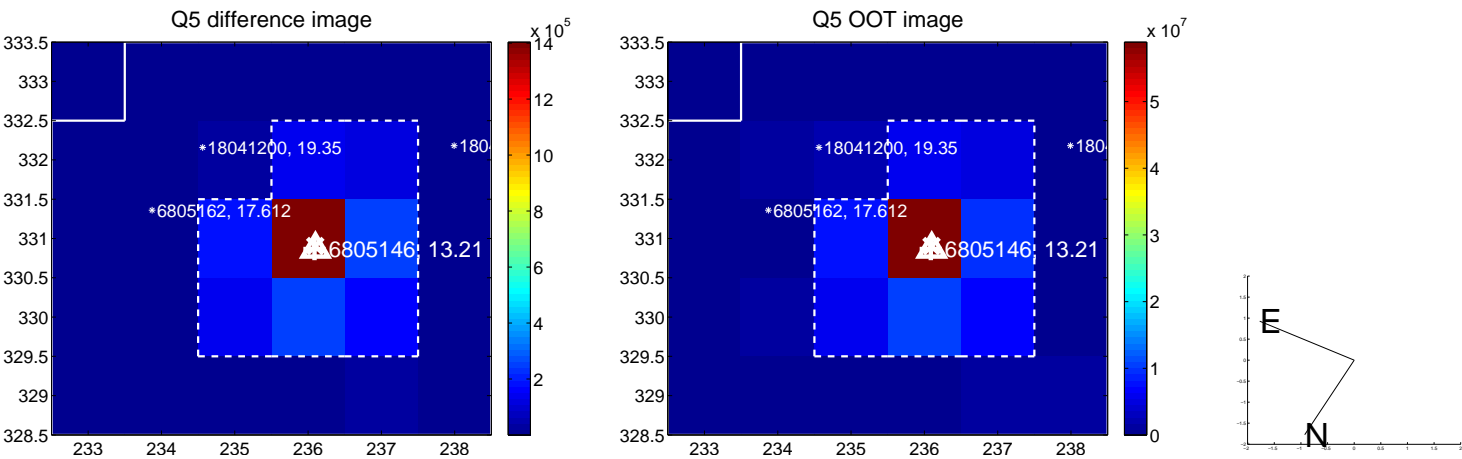


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

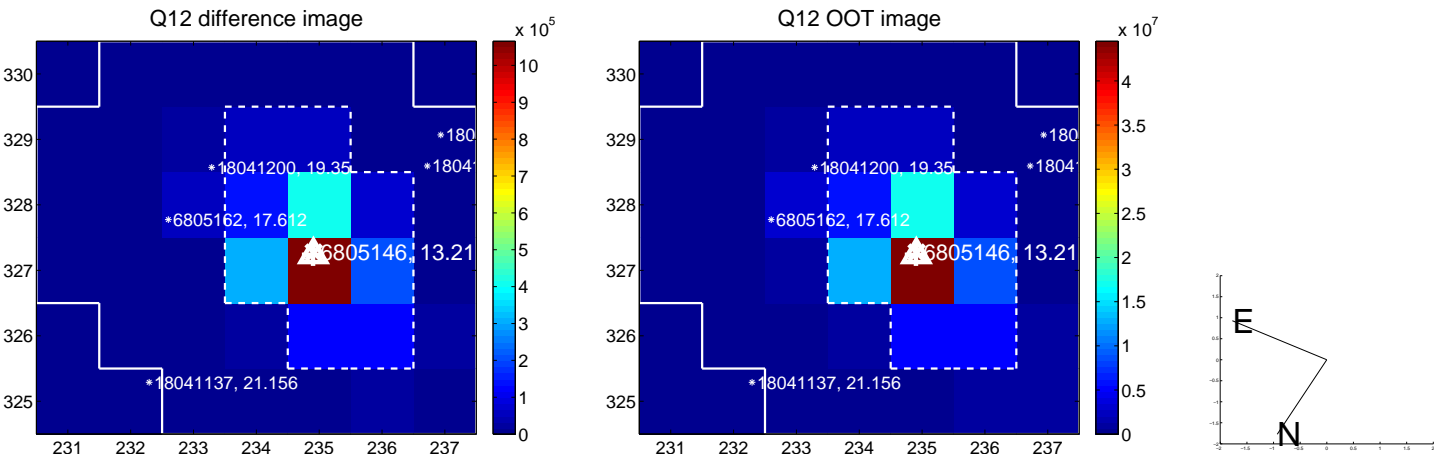
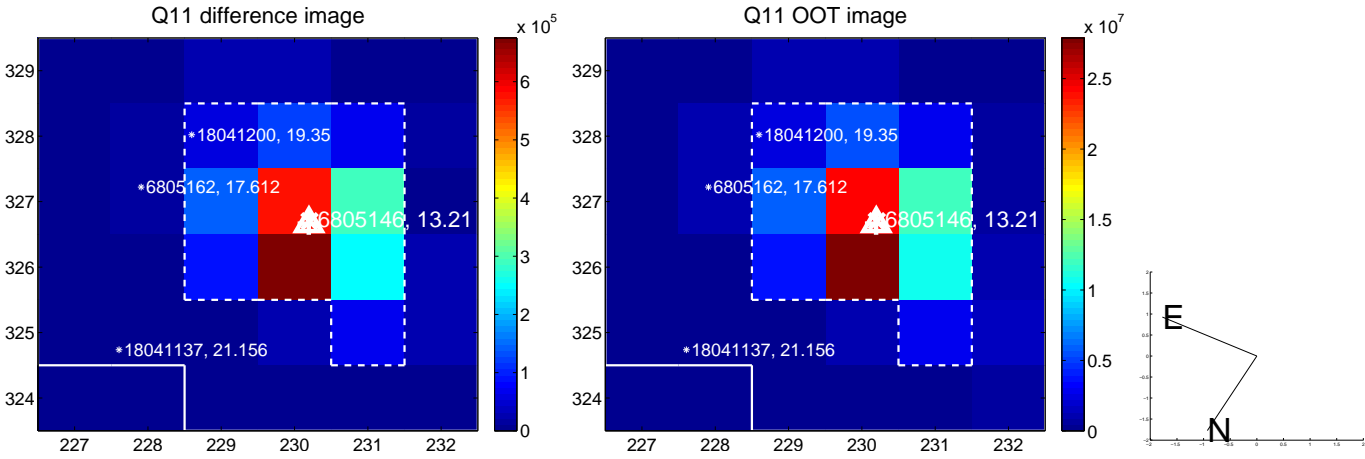
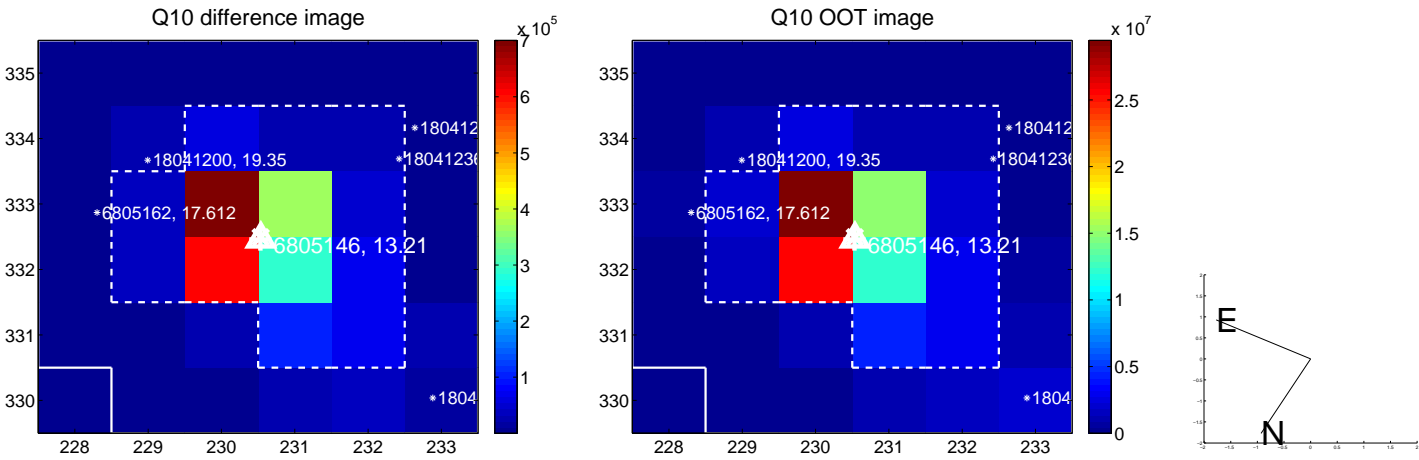
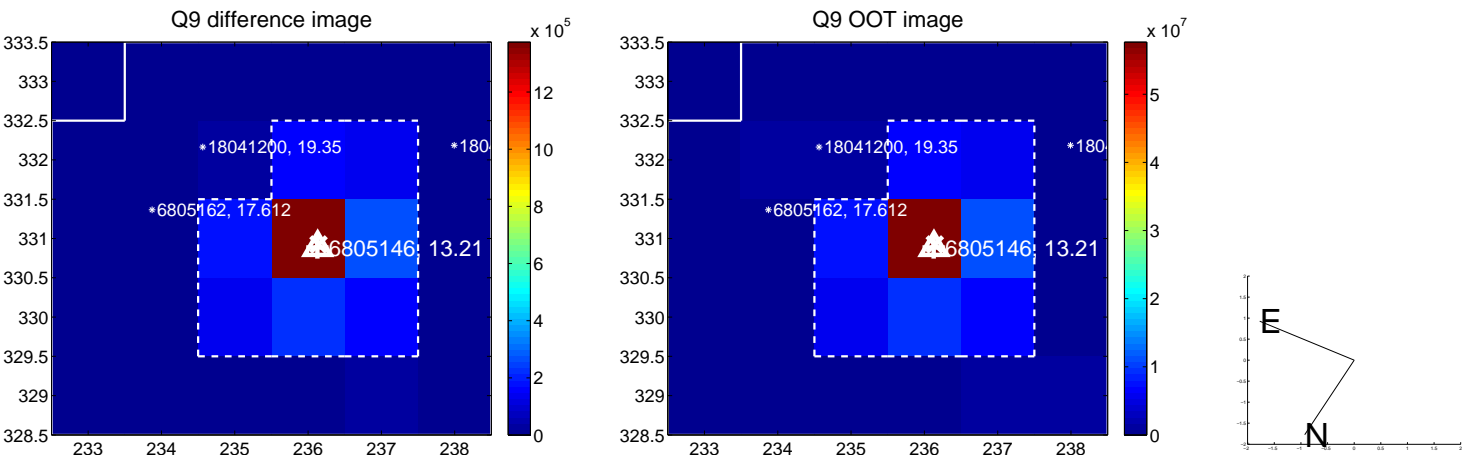
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



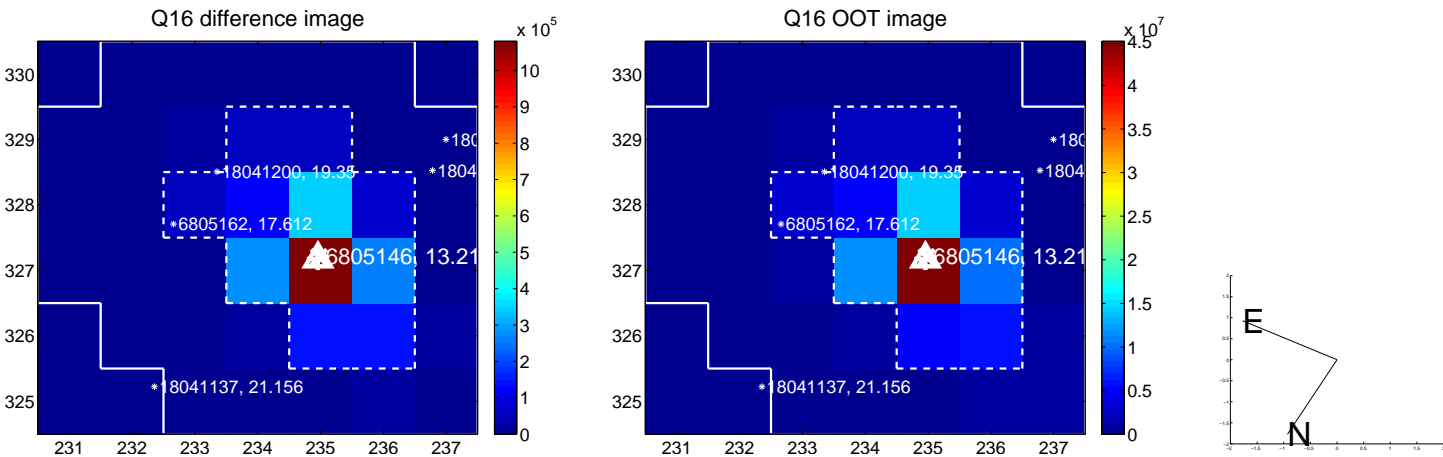
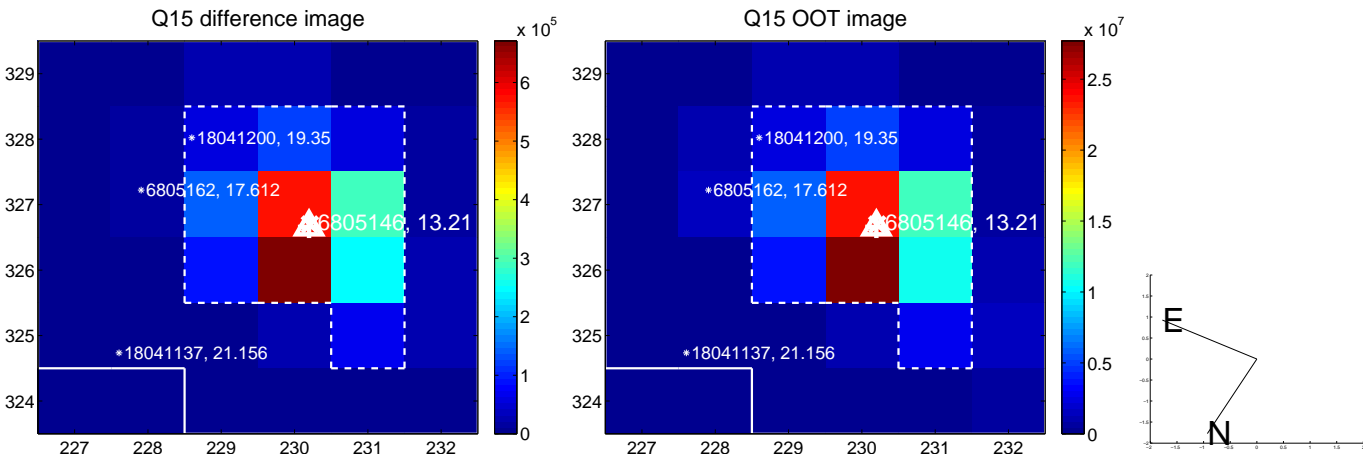
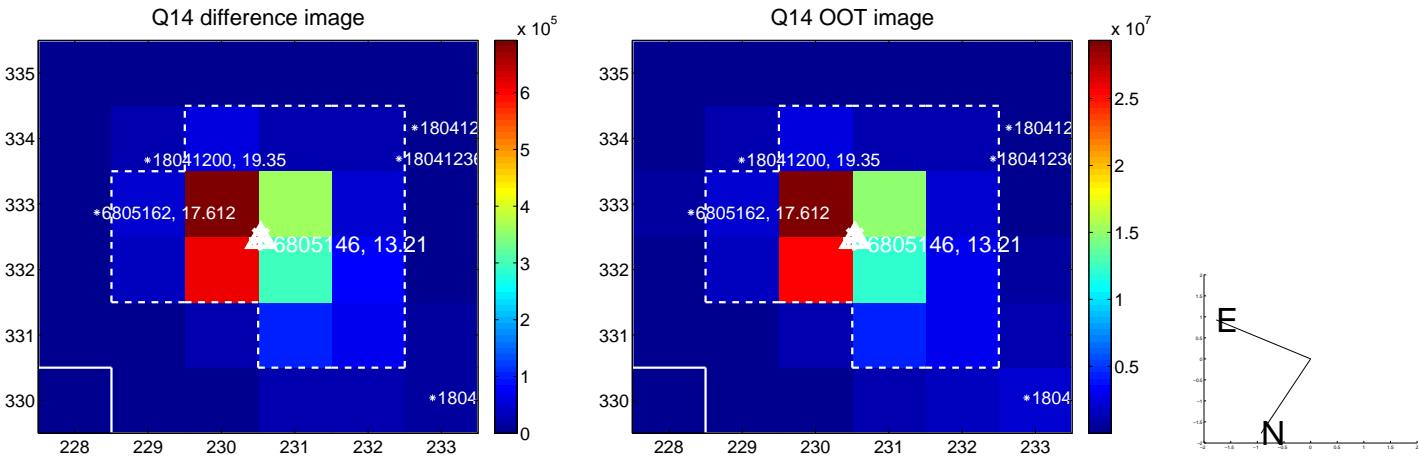
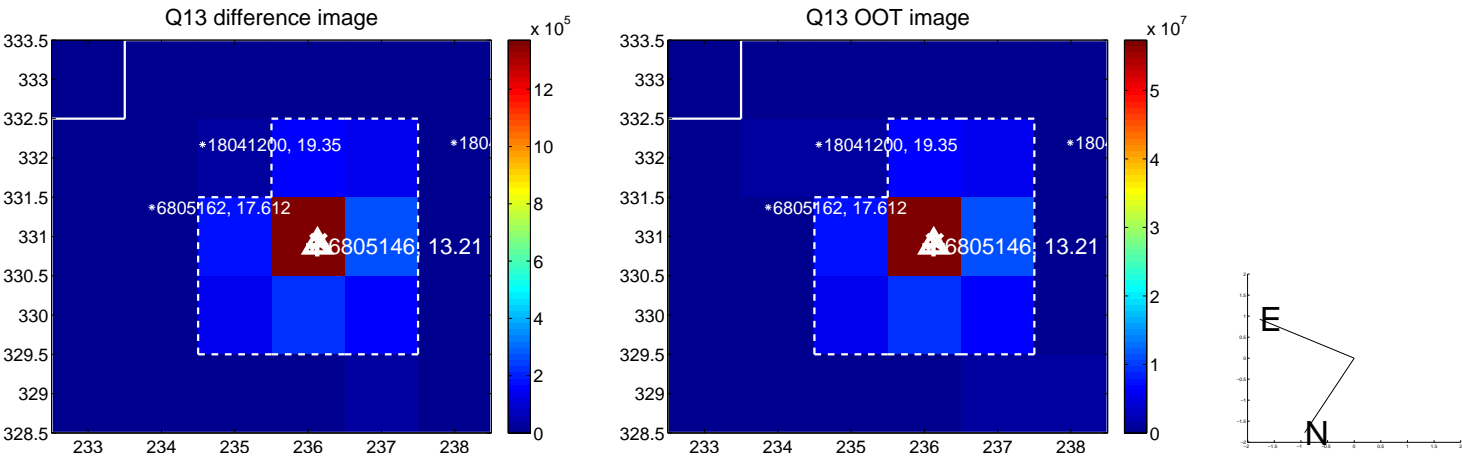
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



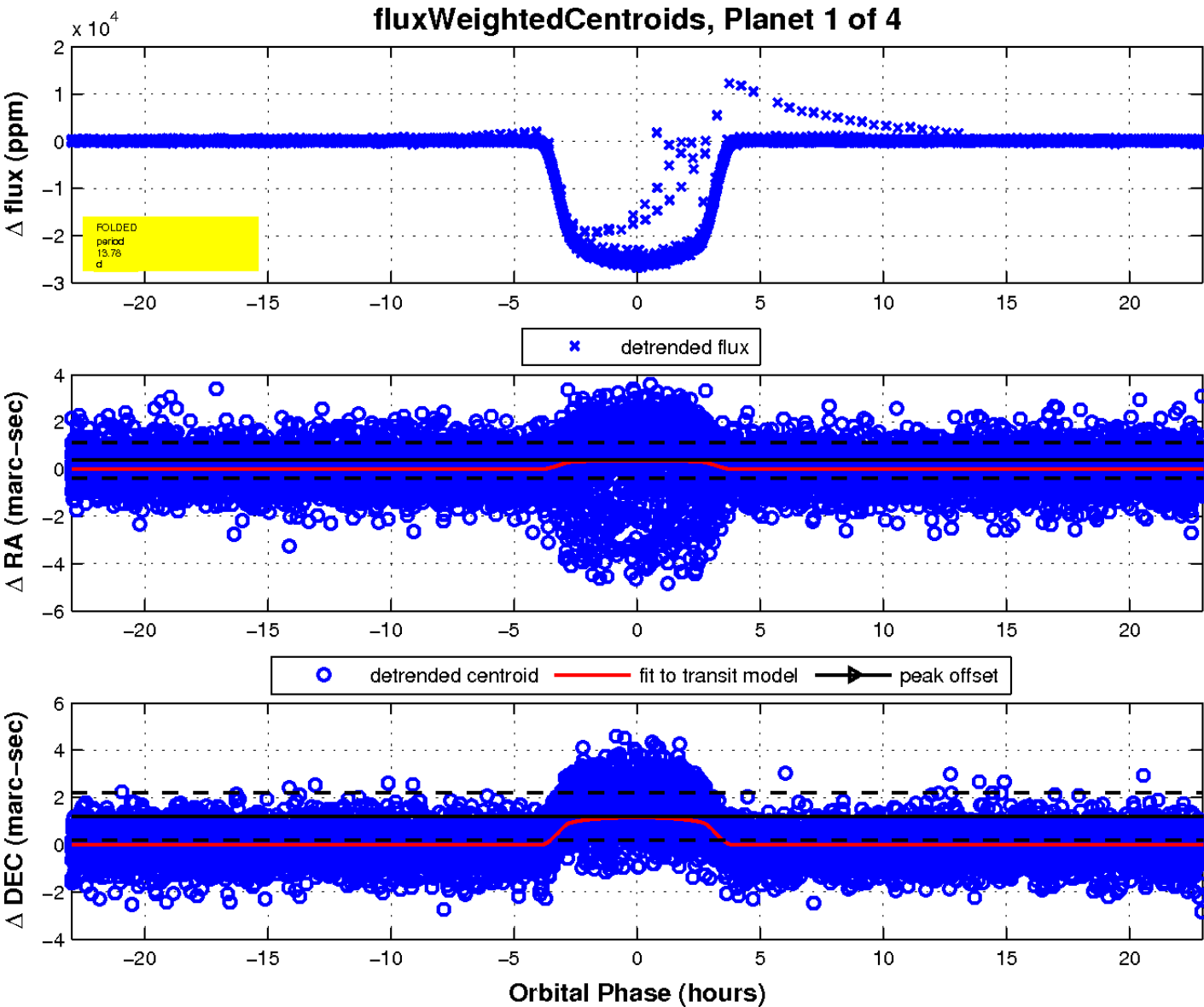
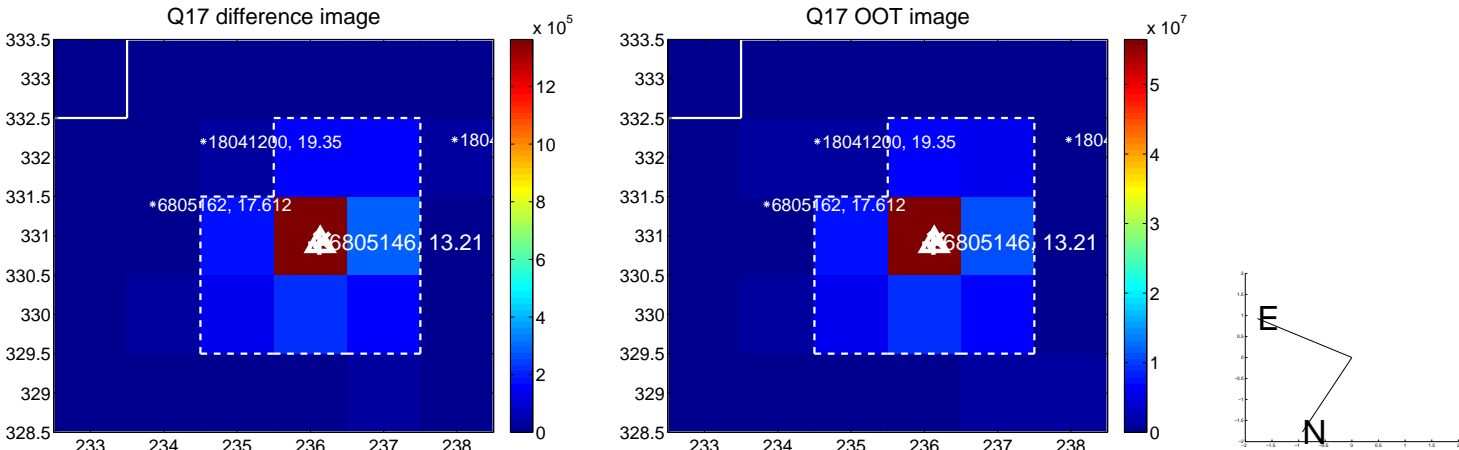
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

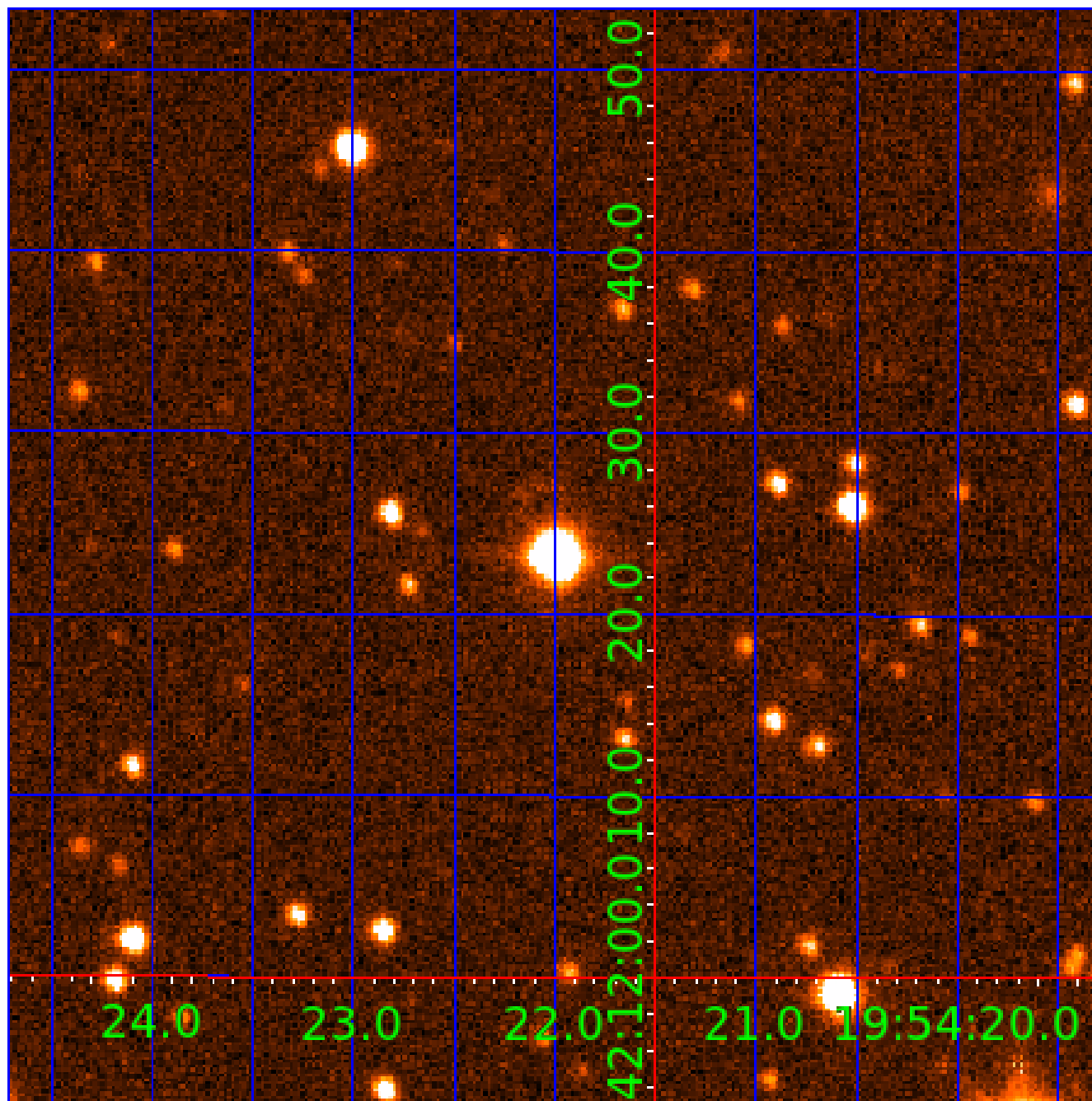


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006805146

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})
006805146-01	OBS	0668.01	13.779710	137.348931	25602.5	7.659	2796.2	2655.7	2.95	6444	47.80	850.06
006805146-02	OBS	No	13.779685	145.272784	548.4	6.645	60.6	65.4	2.95	6444	7.99	850.06
006805146-03	OBS	No	0.954019	131.883726	27.3	5.142	9.6	11.7	2.95	6444	1.55	29901.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006805146-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—HAS_SEC_TCE
006805146-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006805146-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV

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 006805146-02

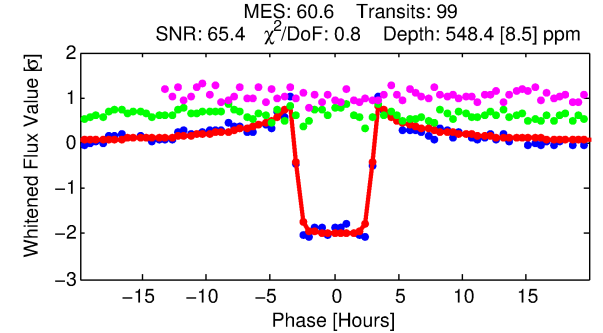
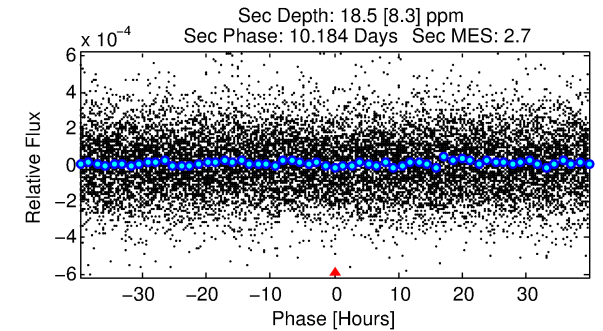
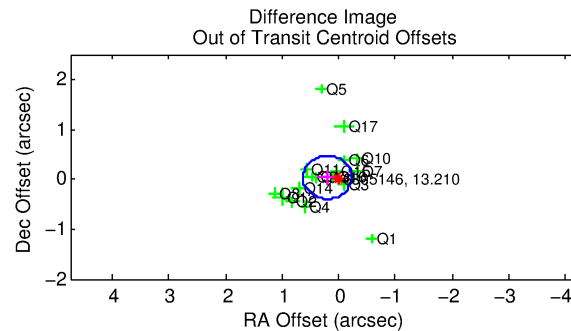
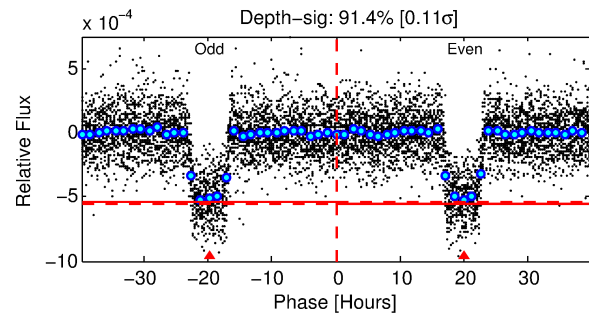
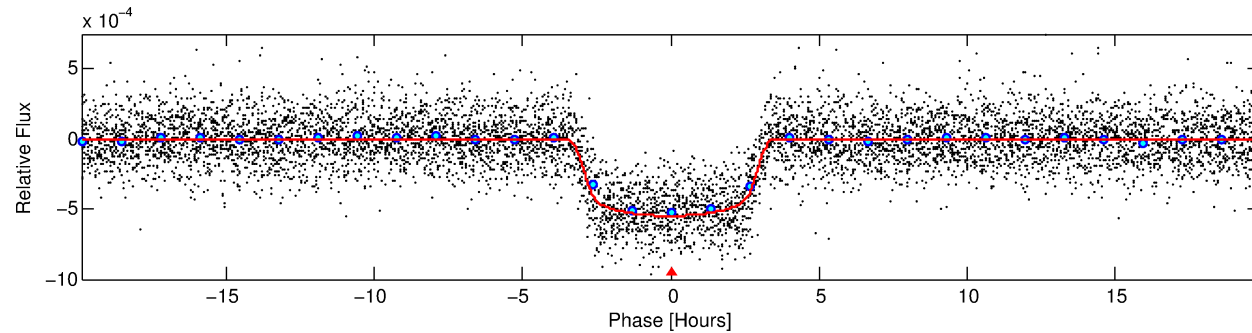
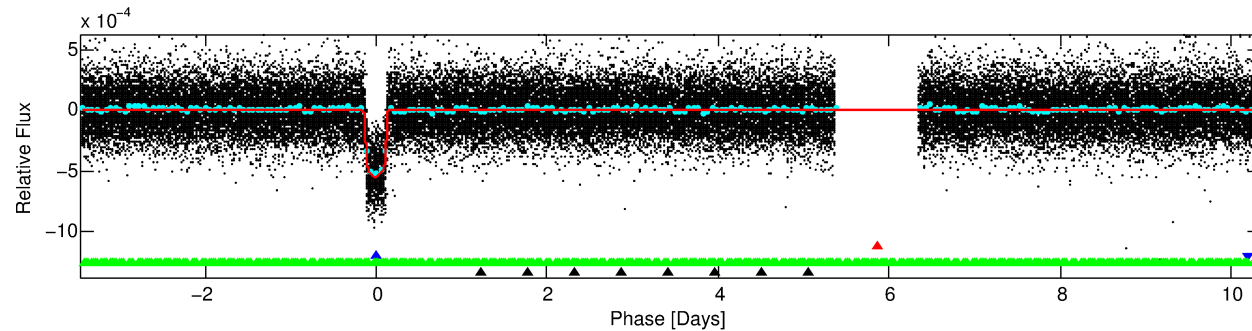
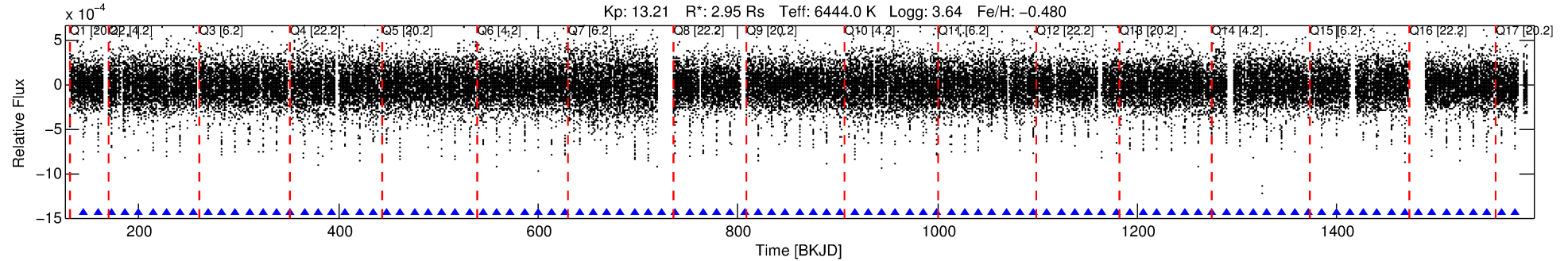
No Significant Match Found

DV One-Page Summary

KIC: 6805146 Candidate: 2 of 4 Period: 13.780 d

KOI: K00668 Corr: No Ephemeris Match

Kp: 13.21 R*: 2.95 Rs Teff: 6444.0 K Logg: 3.64 Fe/H: -0.480



DV Fit Results:

Period = 13.77969 [0.00002] d
Epoch = 145.2728 [0.0013] BKJD
Rp/R* = 0.0248 [0.0004]
a/R* = 8.14 [0.55]
b = 0.89 [0.02]
Seff = 850.06 [502.30]
Teq = 1377 [203] K
Rp = 7.99 [3.10] Re
a = 0.1256 [0.0459] AU
Ag = 2.51 [1.84] [0.82σ]
Teffp = 2680 [314] K [3.48σ]

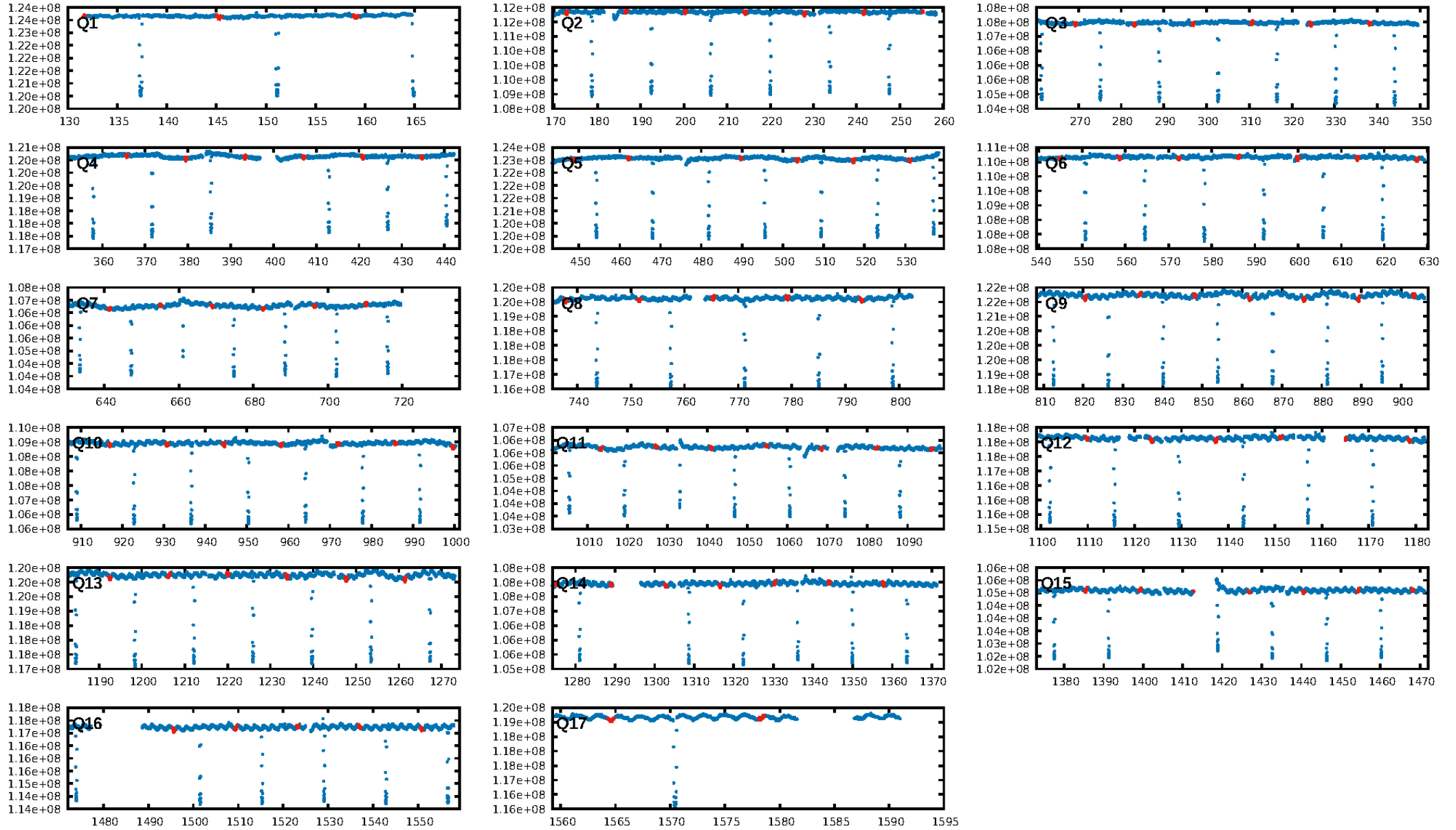
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [36.63σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: 71.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [94/94]
GhostDiagnostic-chr: 7.444
Centroid-sig: 2.5%
Centroid-so: 0.224 arcsec [1.59σ]
OotOffset-rm: 0.209 arcsec [1.46σ]
KicOffset-rm: 0.260 arcsec [1.81σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

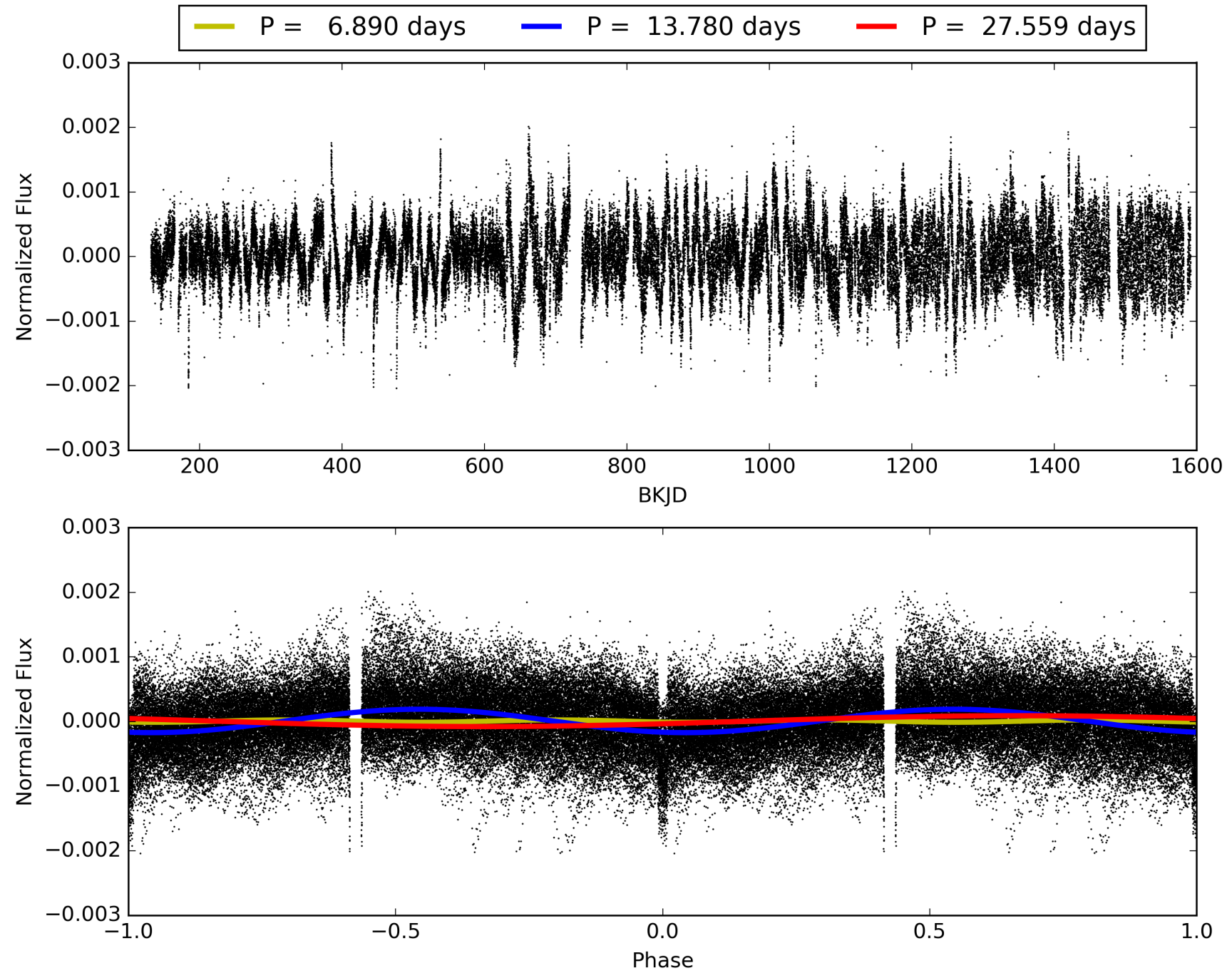
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 20:05:34 Z

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

TCE 006805146-02, PDC Light Curves

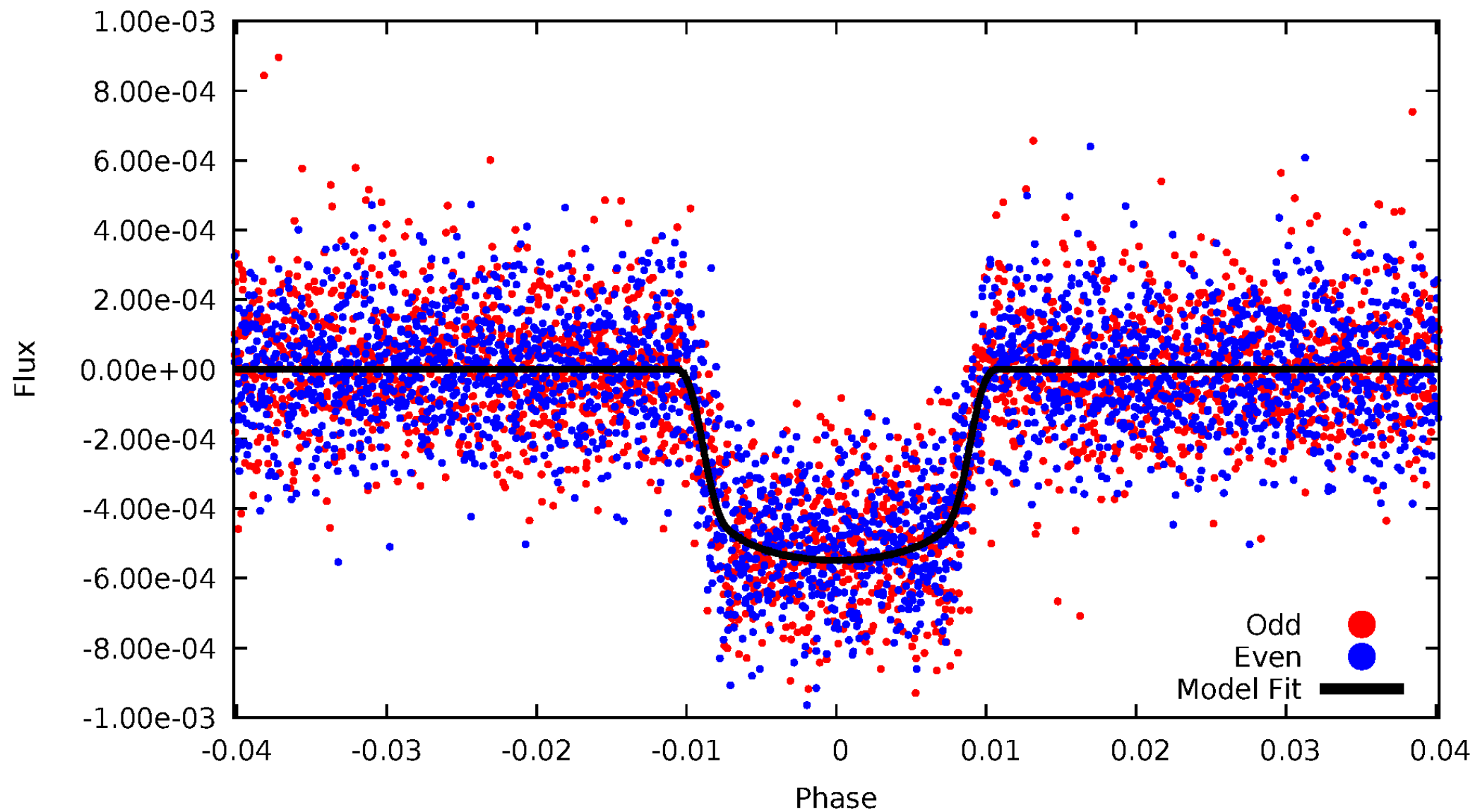


TCE 006805146-02



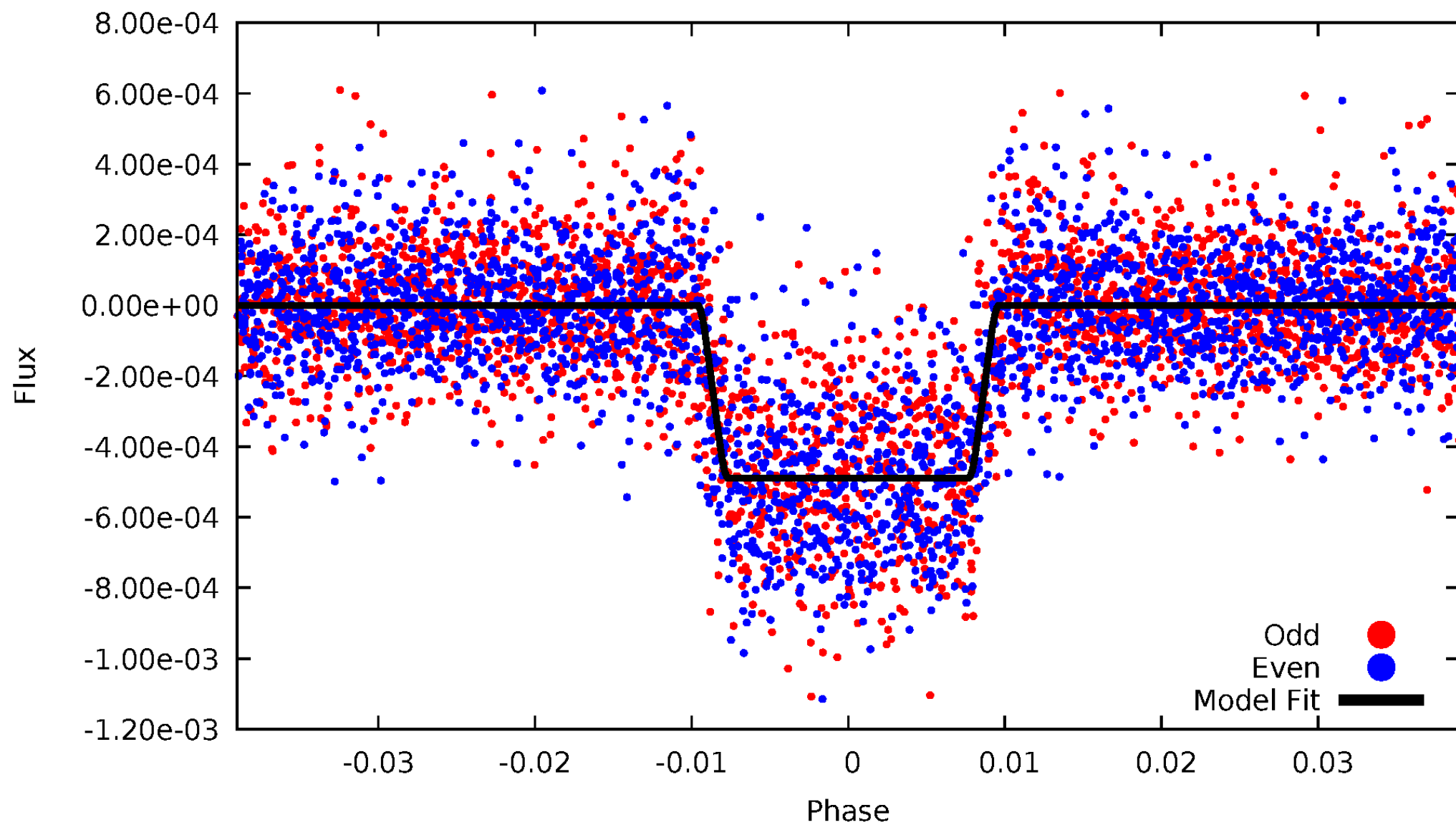
DV Odd/Even

TCE 006805146-02



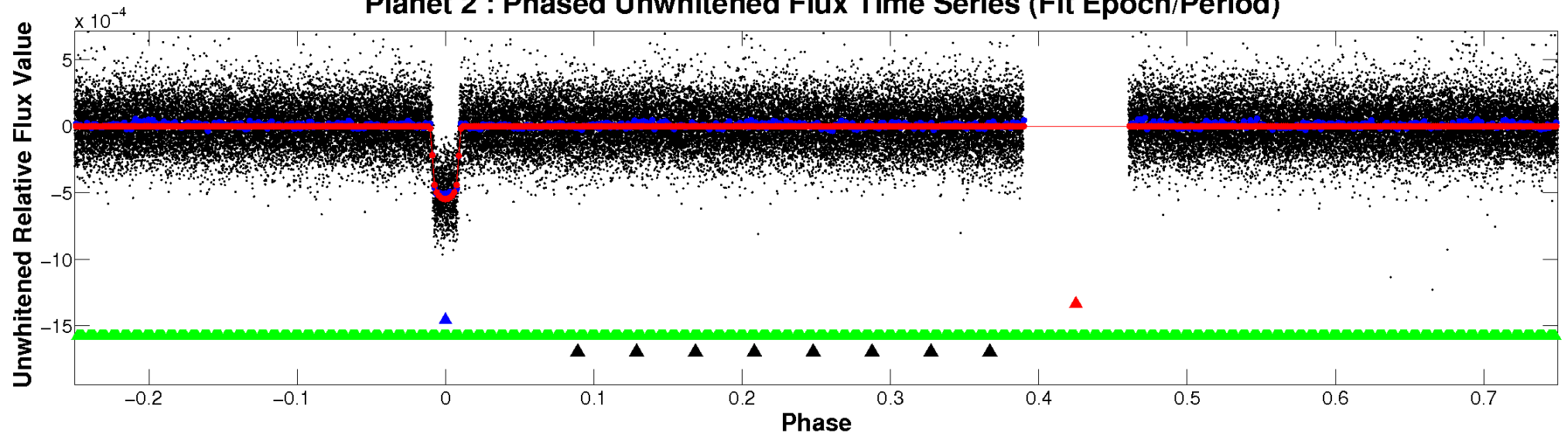
ALT Odd/Even

TCE 006805146-02

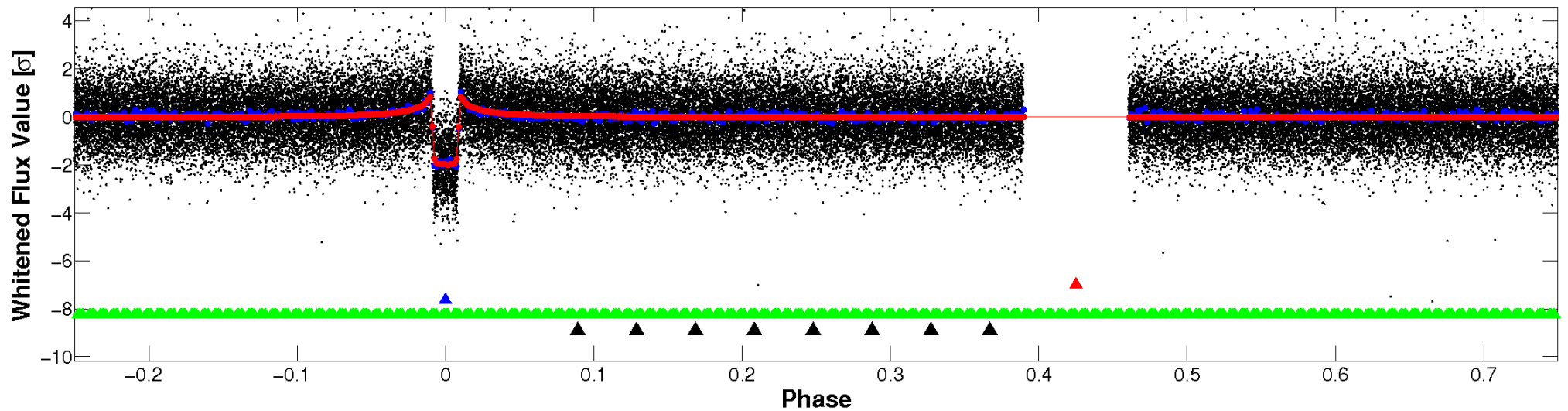


Non-Whitened Vs. Whitened Light Curve

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

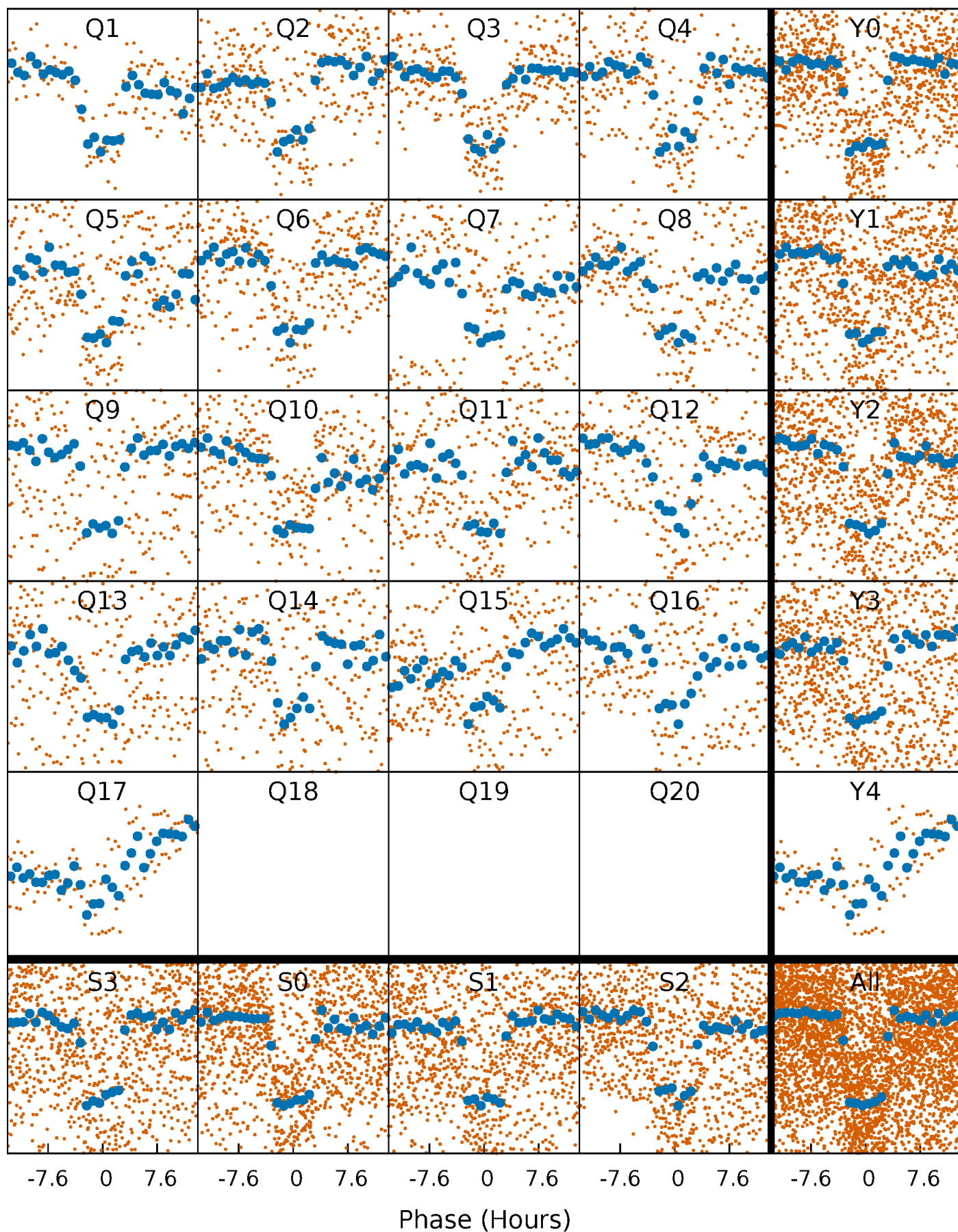


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



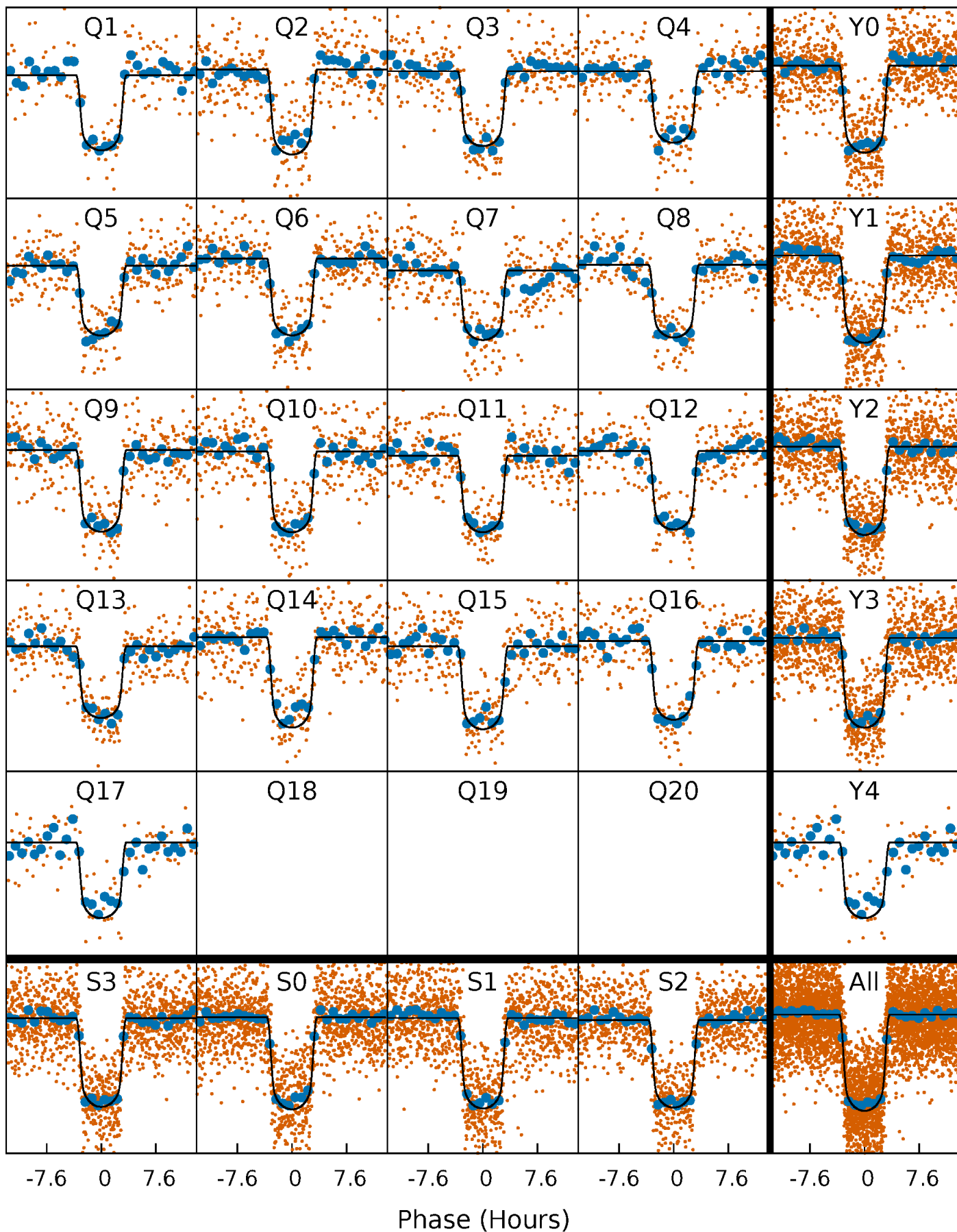
PDC Quarter-Phased Transit Curves

TCE 006805146-02 P= 13.779685 Days $T_0=145.272784$ (BKJD)



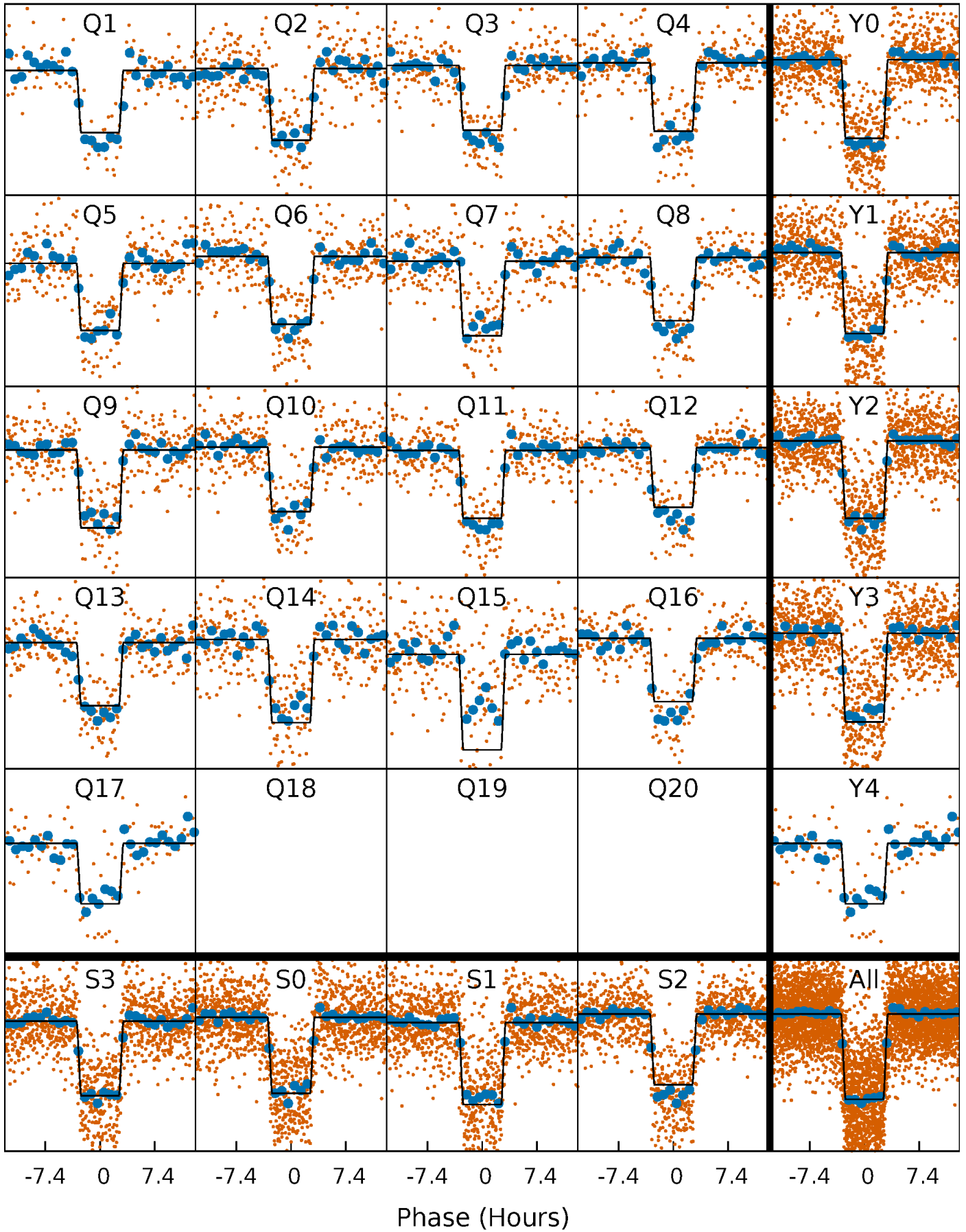
DV Quarter-Phased Transit Curves

TCE 006805146-02 P= 13.779685 Days $T_0=145.272784$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

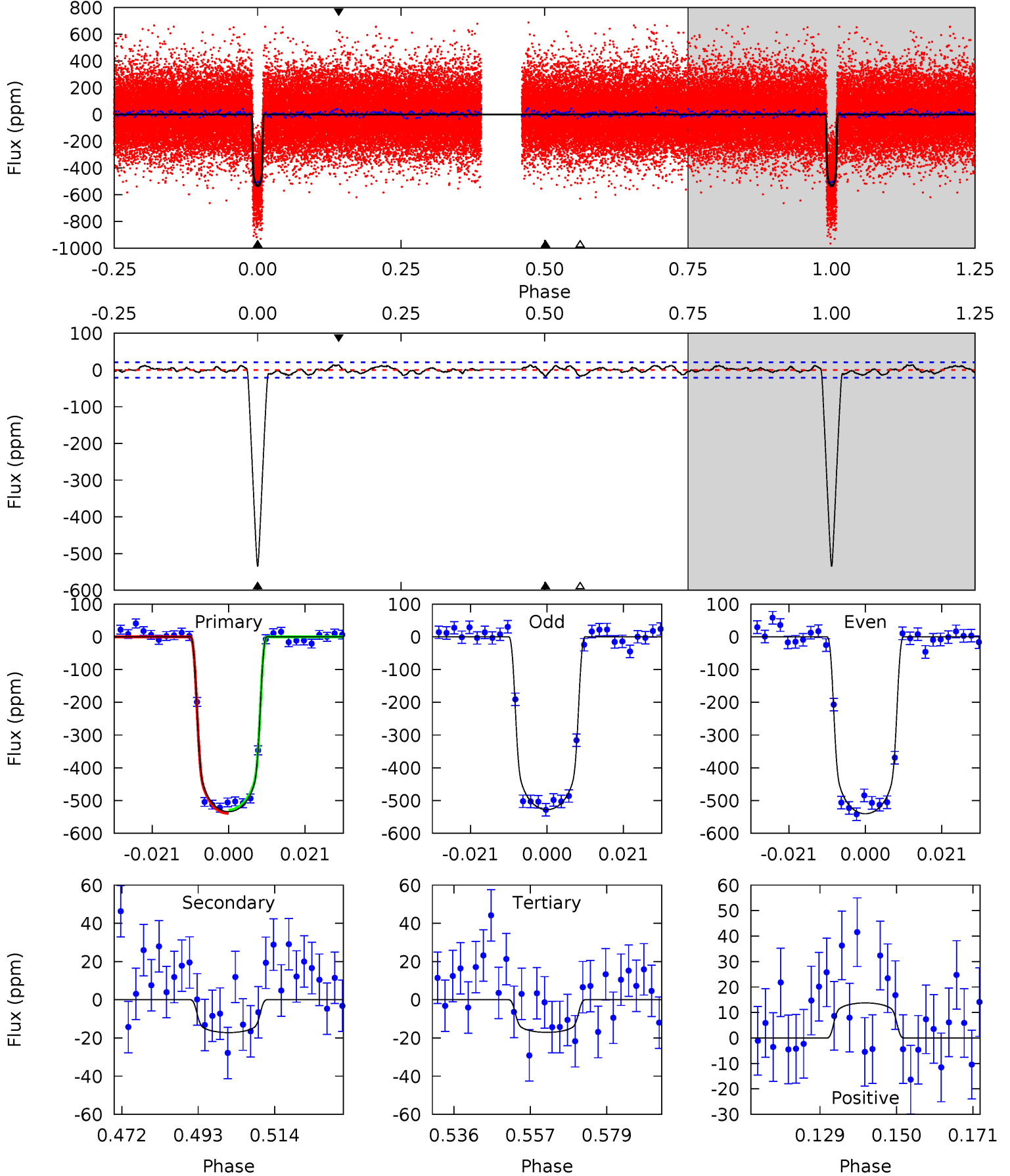
TCE 006805146-02 P= 13.779837 Days $T_0=145.264832$ (BKJD)



DV Model-Shift Uniqueness Test

006805146-02, $P = 13.779685$ Days, $E = 131.493099$ Days

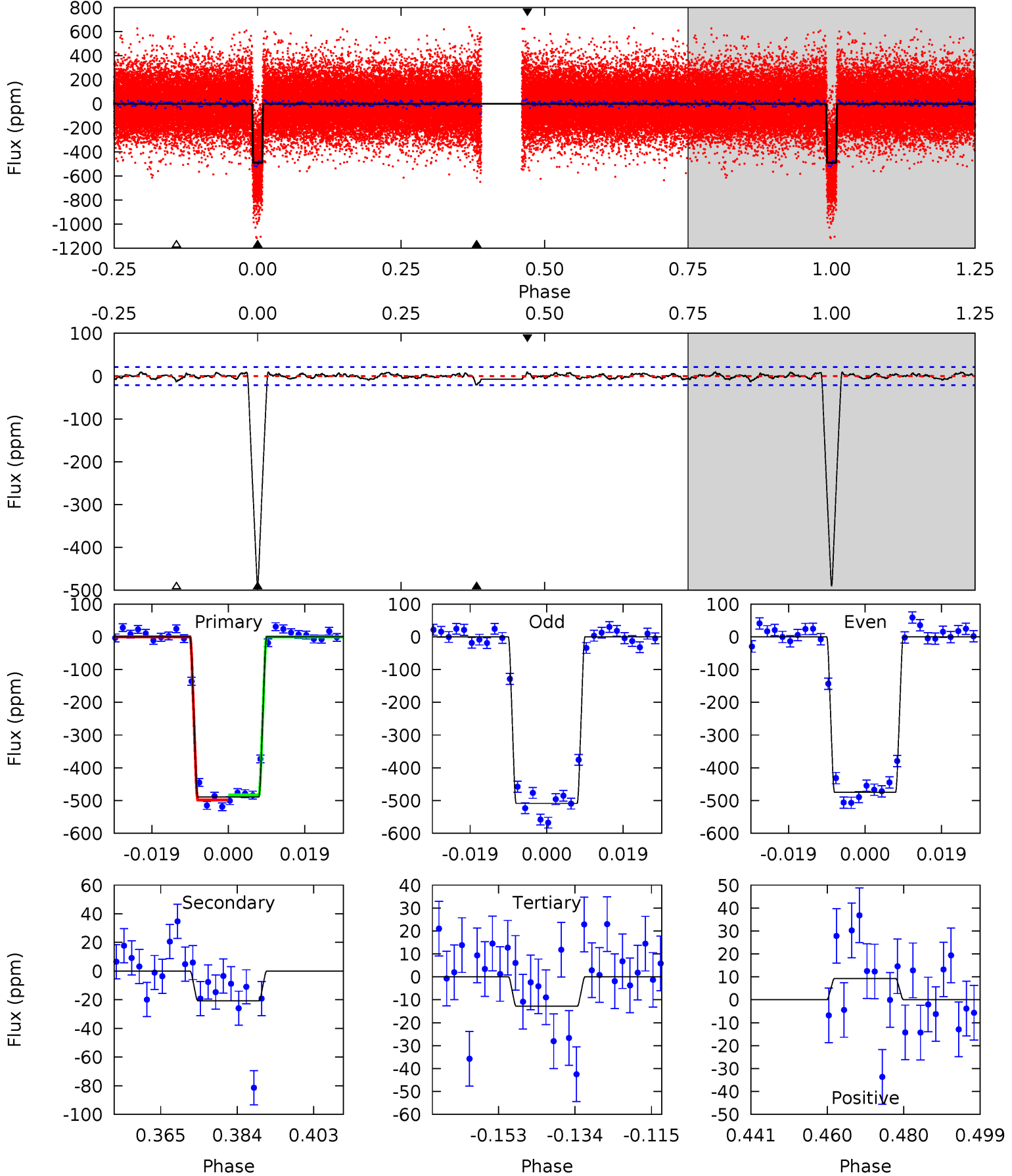
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
123.9	3.98	3.96	3.19	4.88	2.30	1.51	119.9	120.7	0.02	0.79	1.45	0.99	0.03	1.16



Alt Model-Shift Uniqueness Test

006805146-02, P = 13.779837 Days, E = 131.484995 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
114.1	4.84	2.99	2.17	4.90	2.34	0.93	111.2	112.0	1.85	2.68	3.91	0.96	0.02	1.80



Stellar Parameters For KIC 006805146

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6444^{+196}_{-177}	$3.643^{+0.337}_{-0.112}$	$-0.480^{+0.400}_{-0.250}$	$2.947^{+0.489}_{-1.142}$	$1.393^{+0.256}_{-0.313}$	$0.077^{+0.190}_{-0.026}$
	+3%/-3%	+9%/-3%	+83%/-52%	+17%/-39%	+18%/-22%	+248%/-35%
Source	PHO1	FLK73	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 006805146-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-17 ± 4	$7.97^{+0.87}_{-1.70}$	1887^{+132}_{-168}	3167^{+129}_{-159}	$2.545^{+1.283}_{-0.778}$
Alt.	-21 ± 4	$7.06^{+0.85}_{-1.36}$	1895^{+123}_{-161}	3394^{+123}_{-131}	$3.840^{+1.904}_{-1.056}$

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

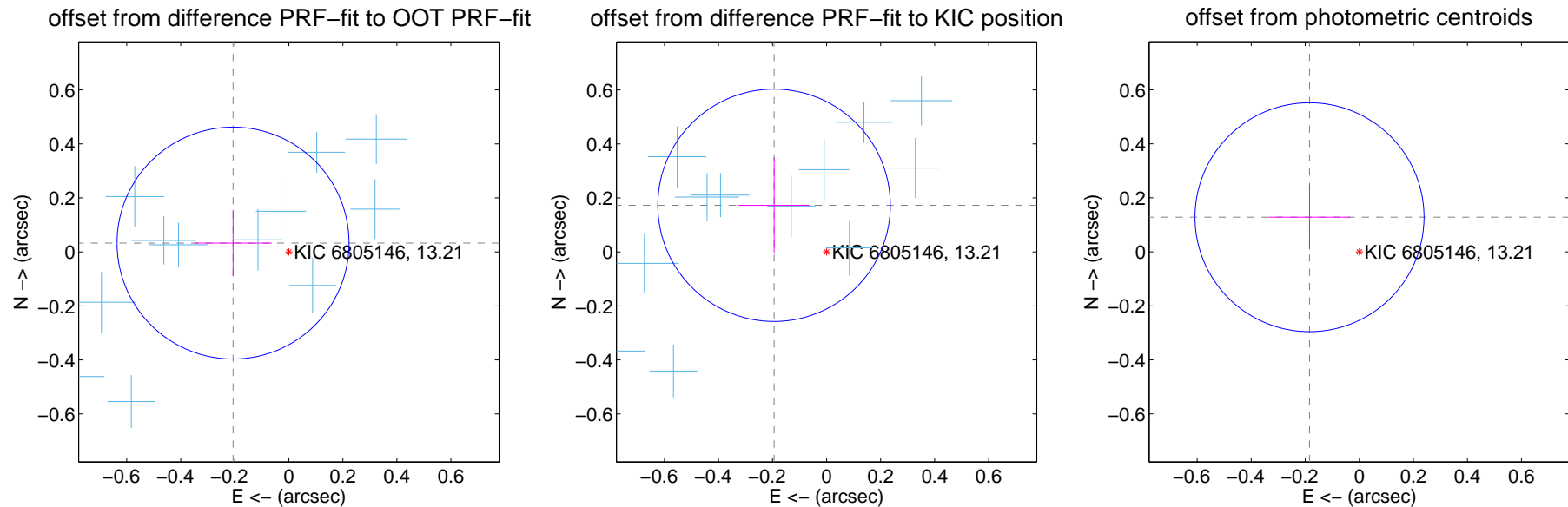
DV Centroid Data

Supplemental centroid analysis for 006805146-02. Kepler magnitude: 13.21. Transit SNR 65.43

There are 17 quarters with good PRF difference image offsets

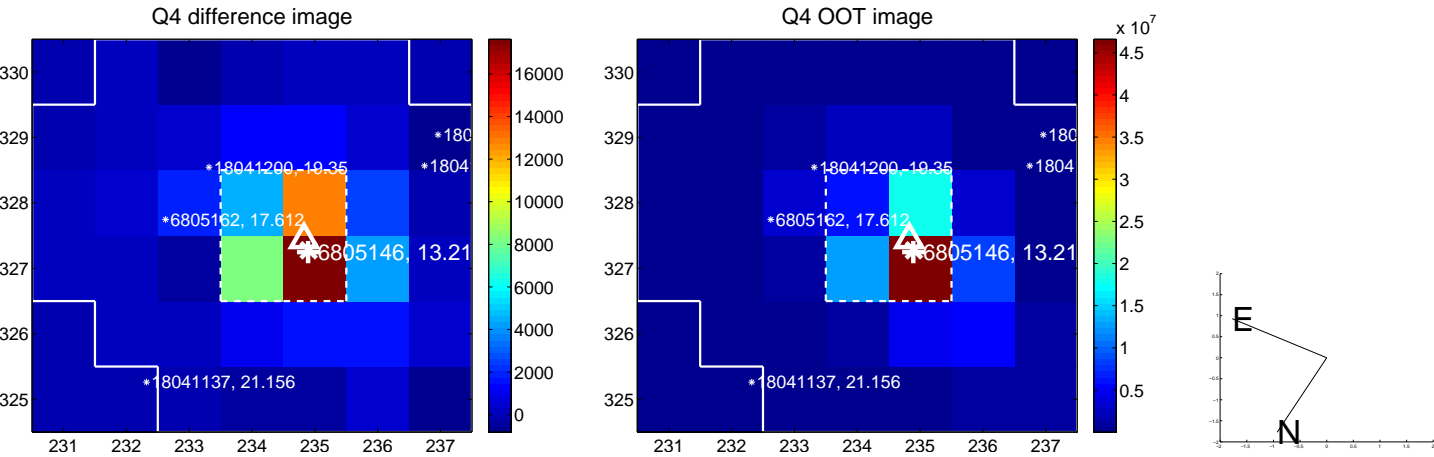
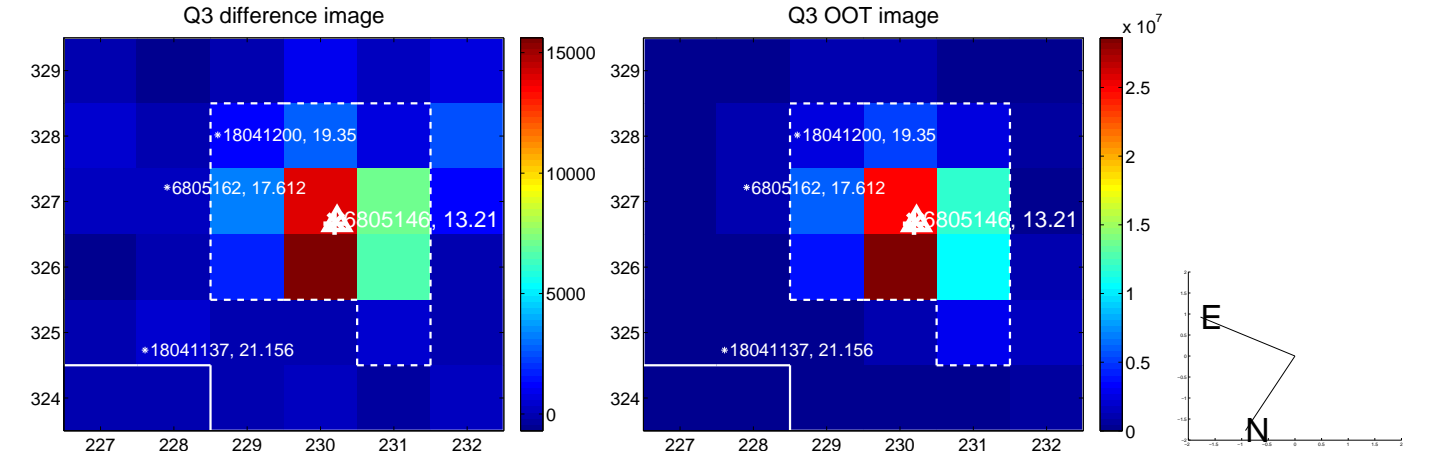
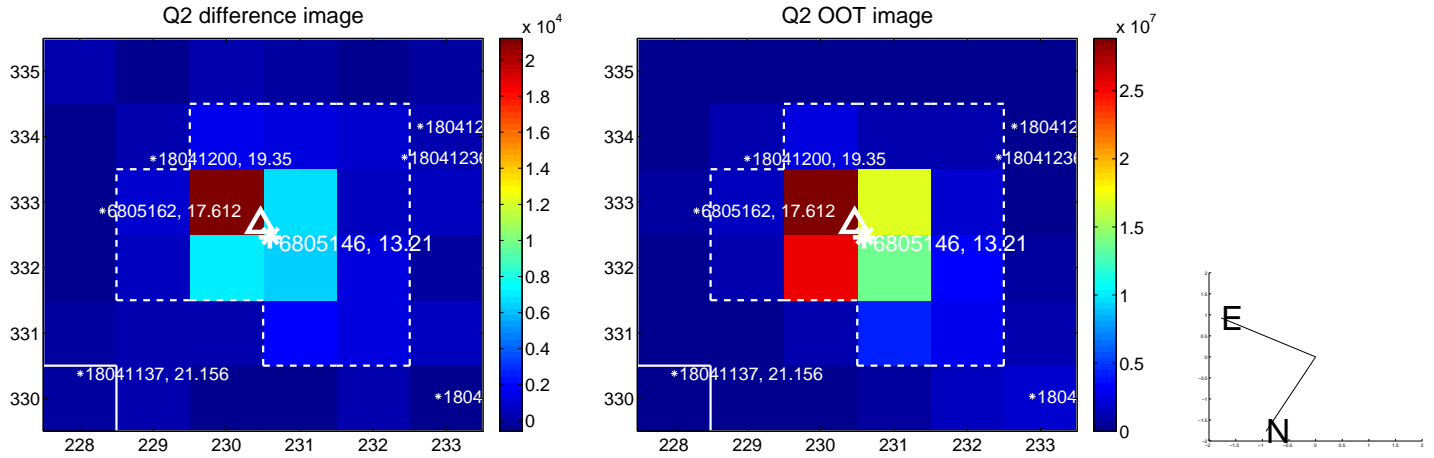
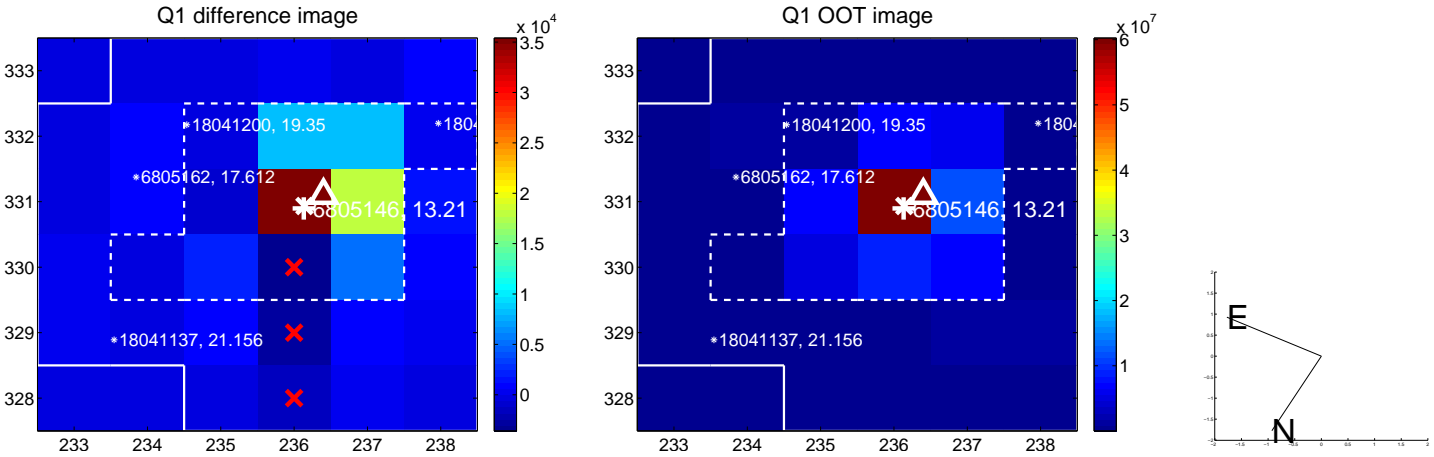
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.209 ± 0.143	1.46	0.206 ± 0.144	0.033 ± 0.123
PRF-fit source offset from KIC position	0.260 ± 0.143	1.81	0.194 ± 0.131	0.173 ± 0.176
photometric centroid source offset	0.22 ± 0.14	1.59	0.18 ± 0.15	0.13 ± 0.12

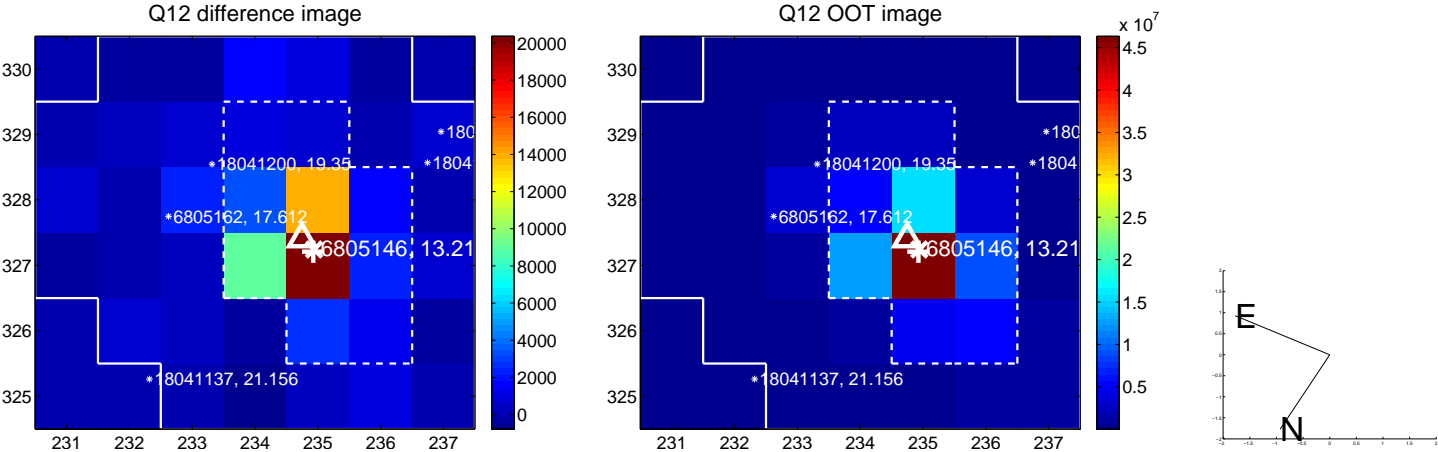
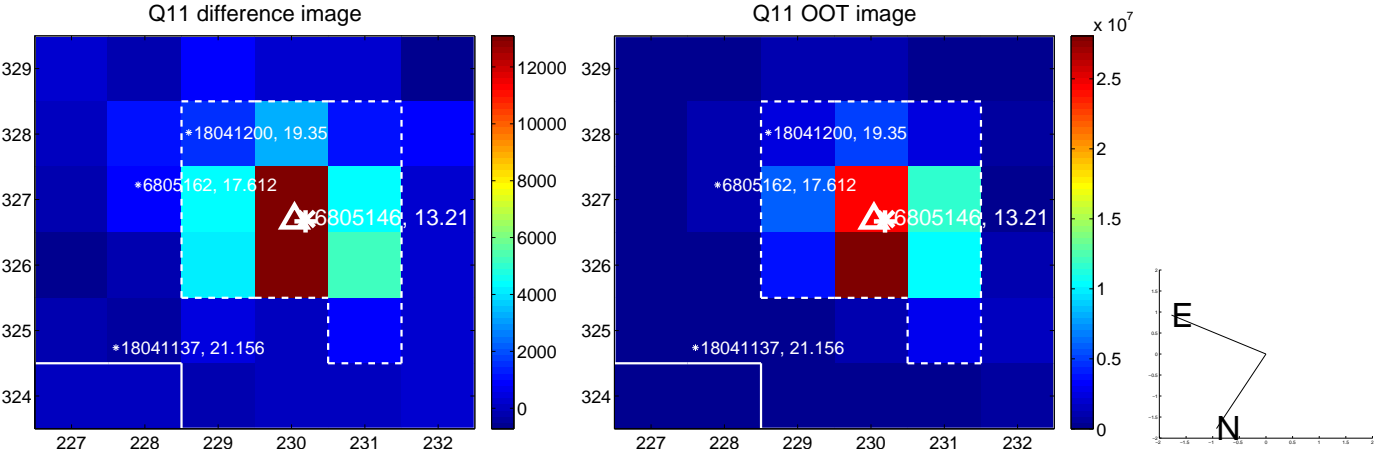
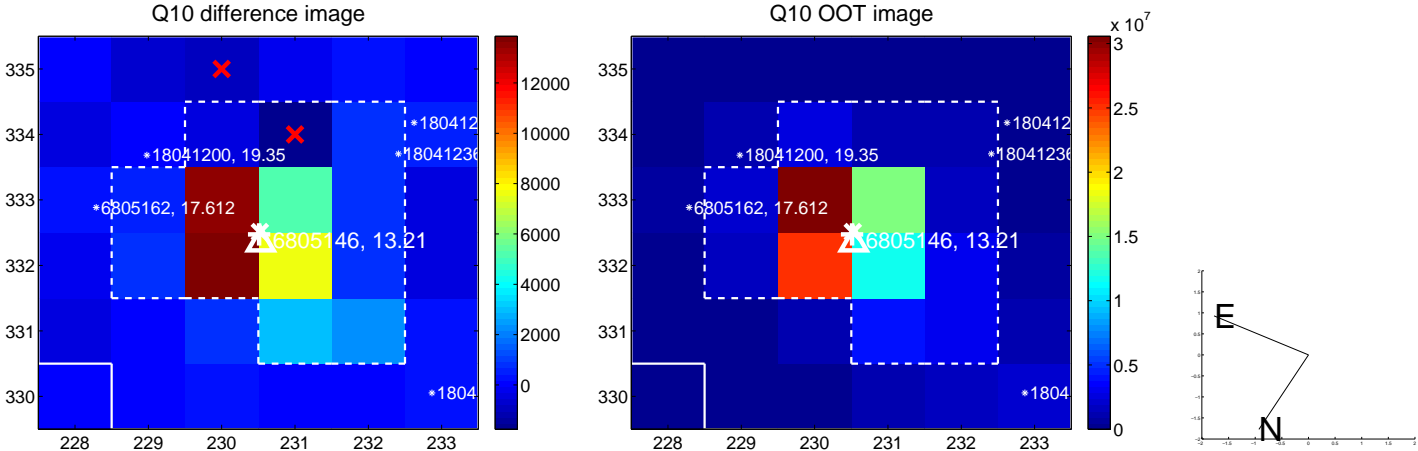
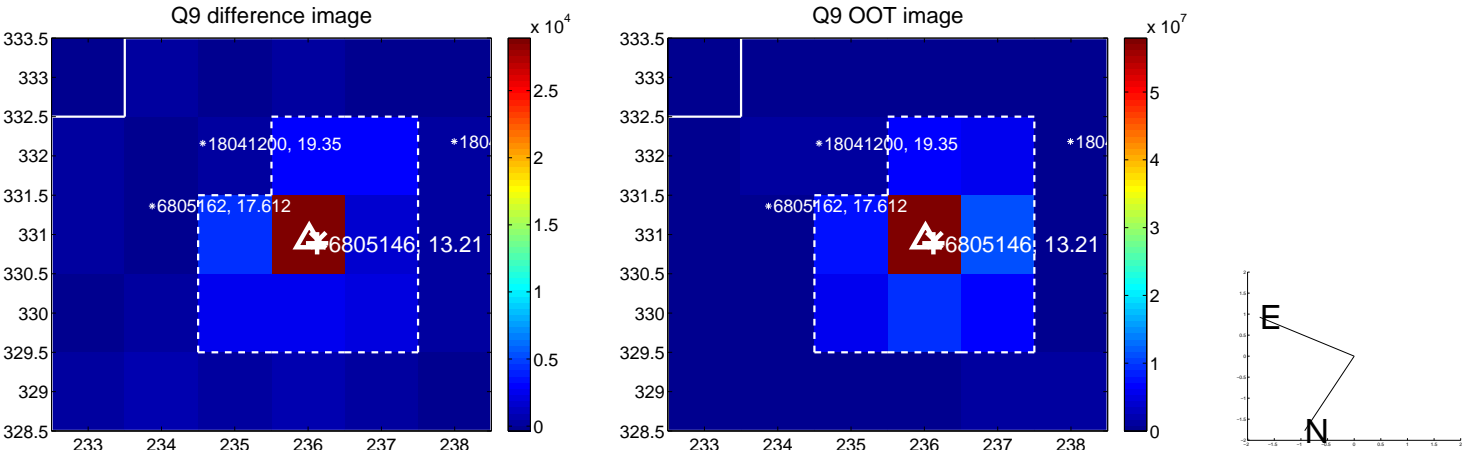


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

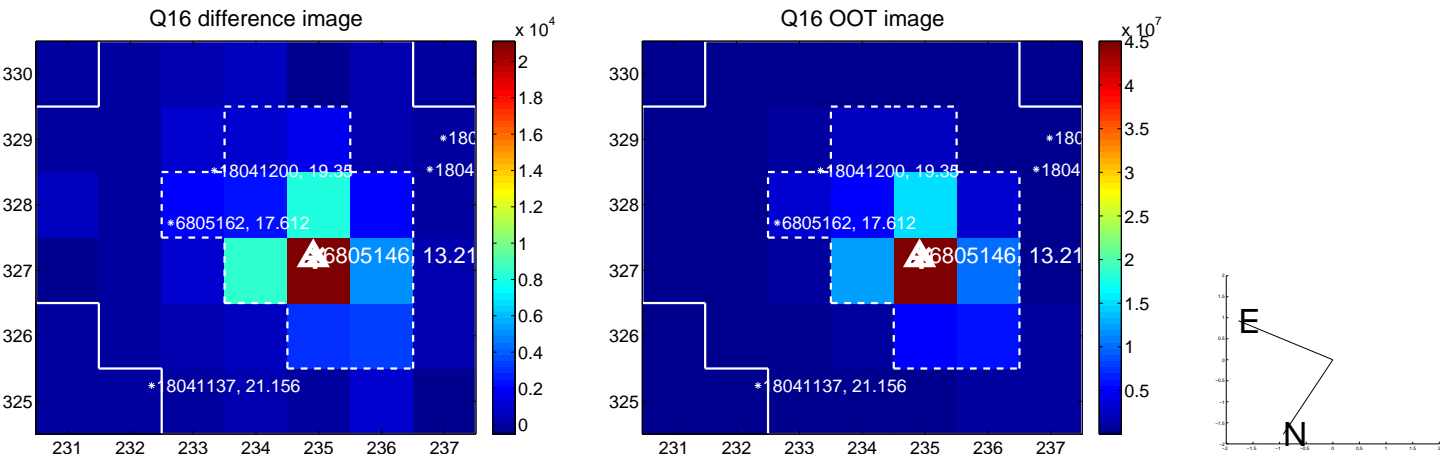
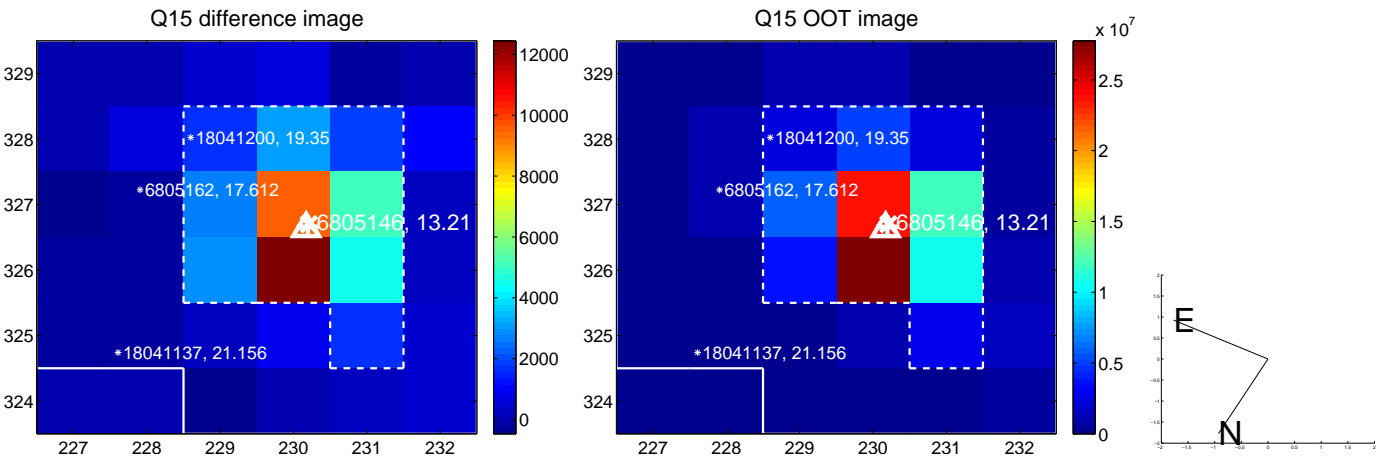
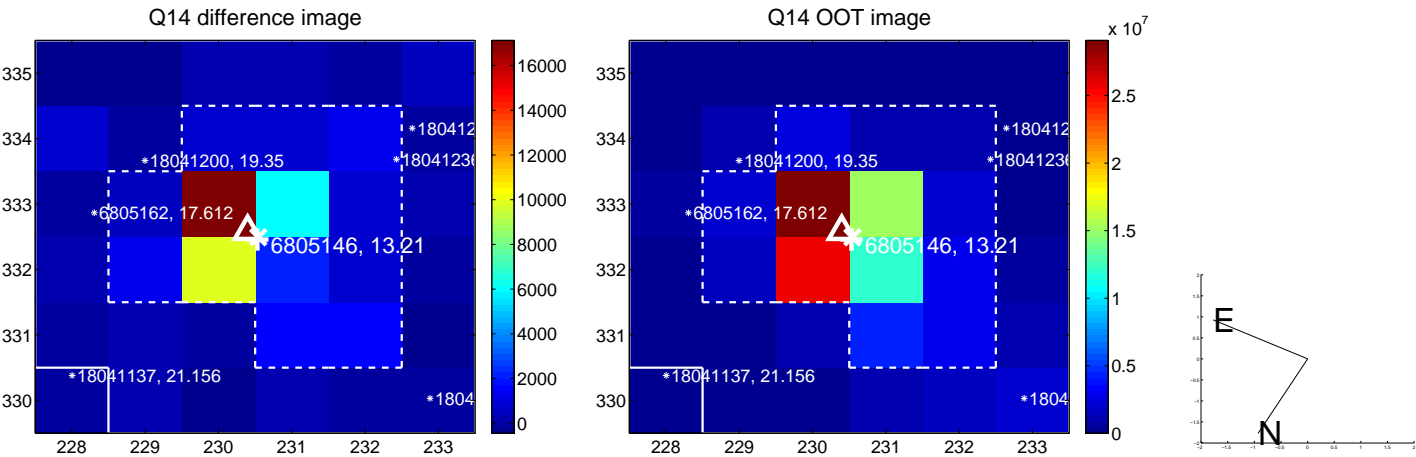
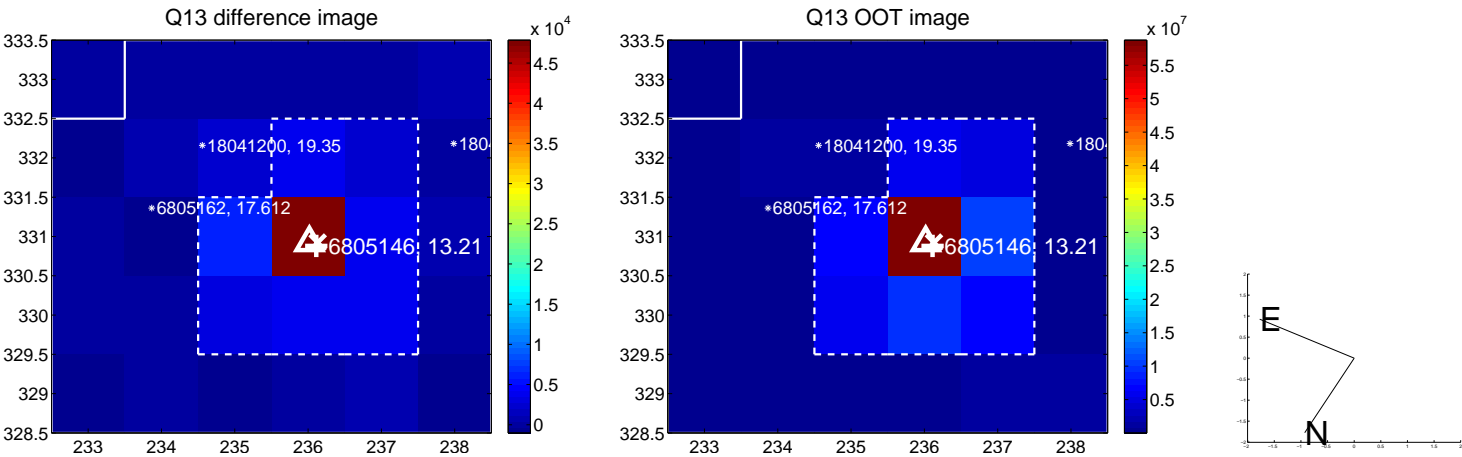
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



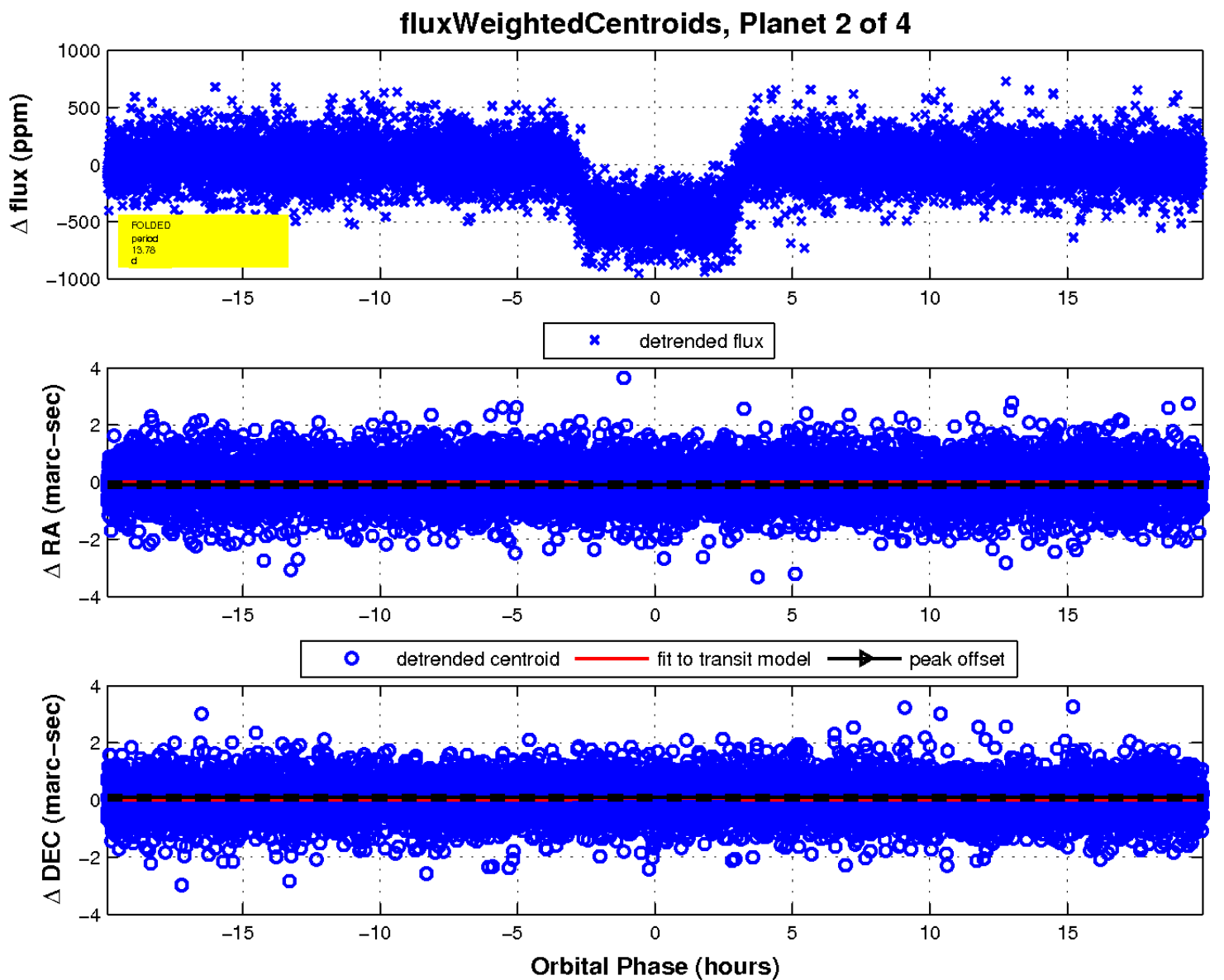
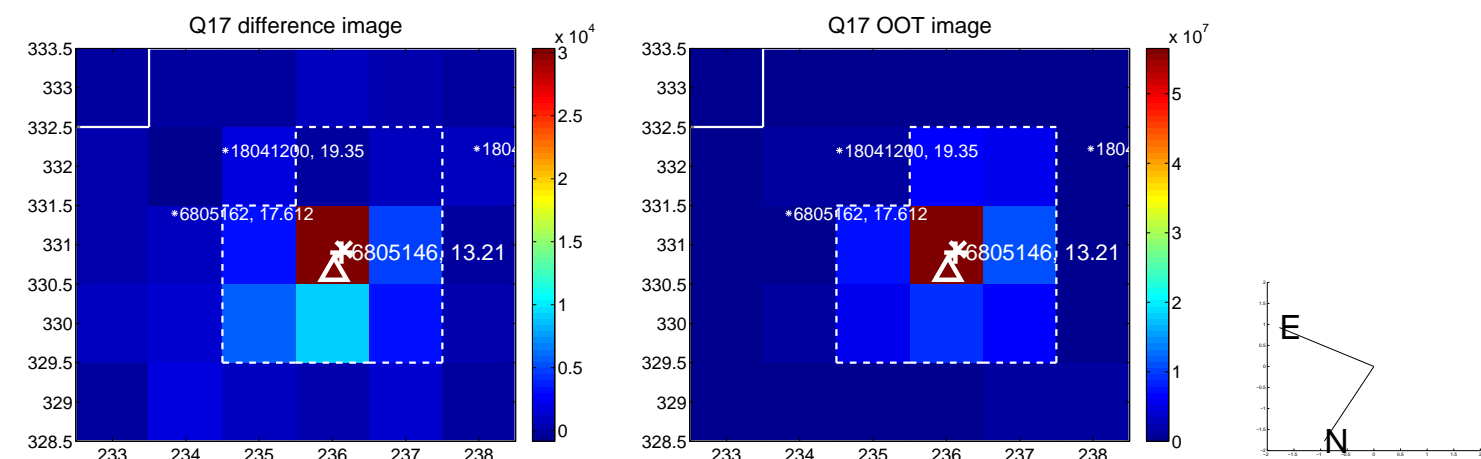
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

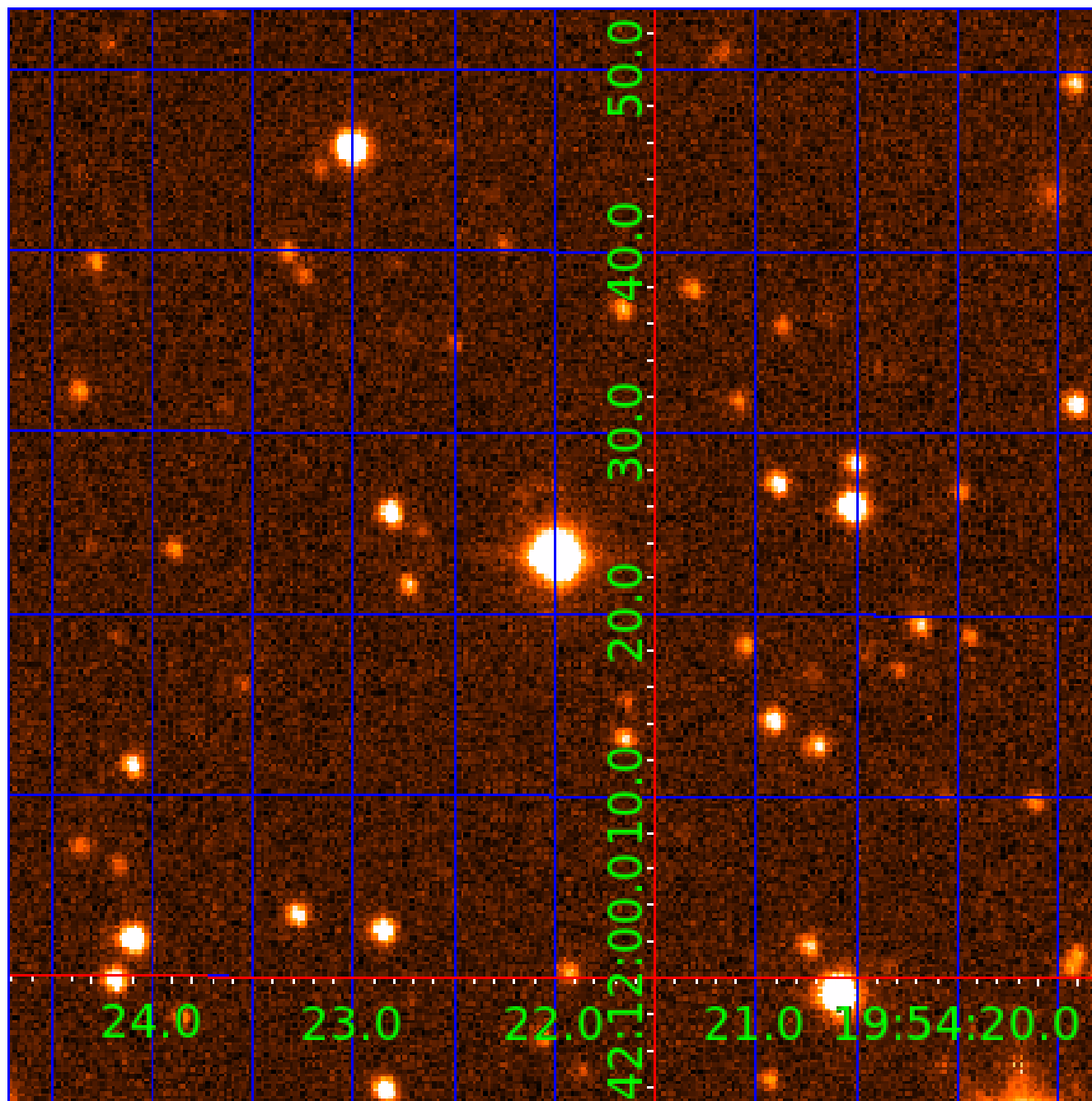


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006805146

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})
006805146-01	OBS	0668.01	13.779710	137.348931	25602.5	7.659	2796.2	2655.7	2.95	6444	47.80	850.06
006805146-02	OBS	No	13.779685	145.272784	548.4	6.645	60.6	65.4	2.95	6444	7.99	850.06
006805146-03	OBS	No	0.954019	131.883726	27.3	5.142	9.6	11.7	2.95	6444	1.55	29901.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006805146-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—HAS_SEC_TCE
006805146-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006805146-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV

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

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

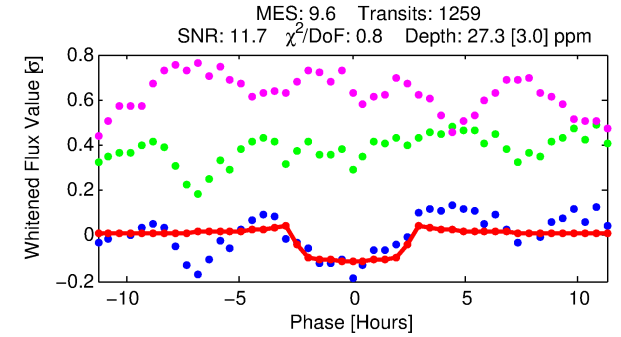
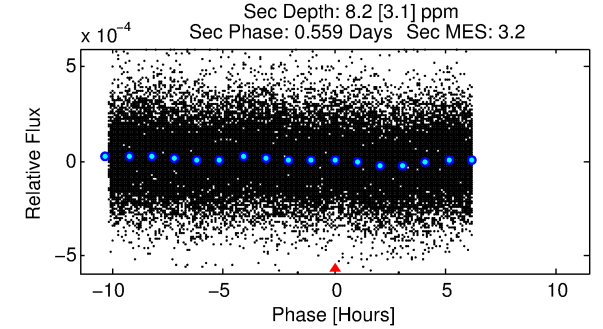
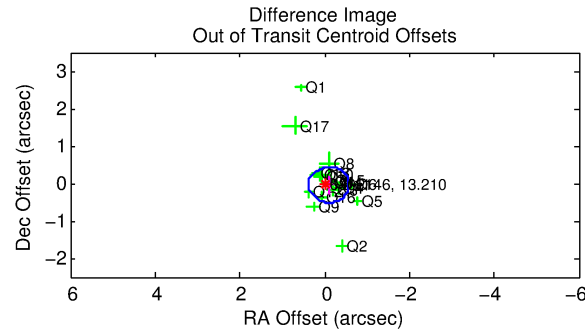
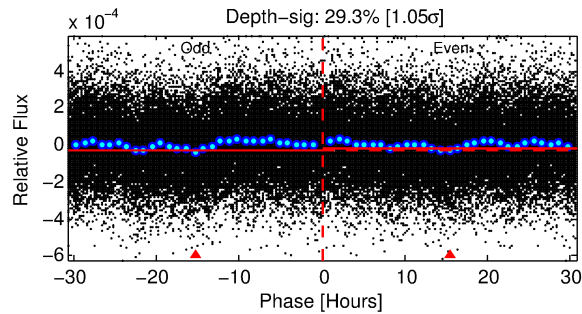
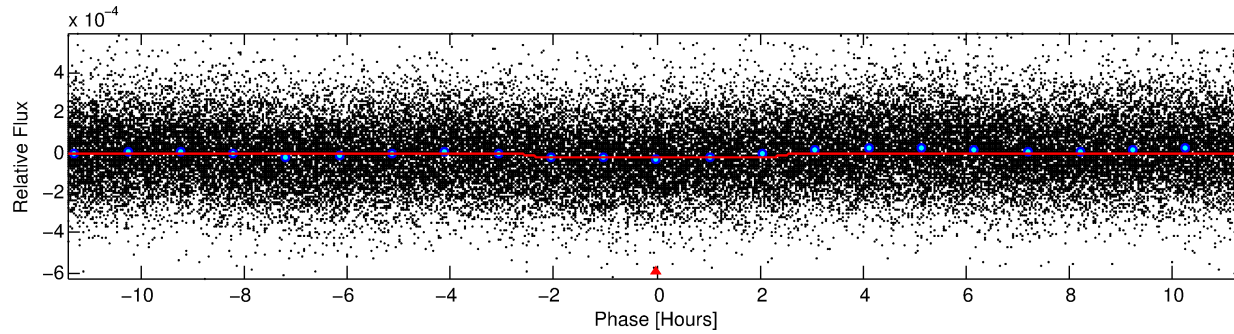
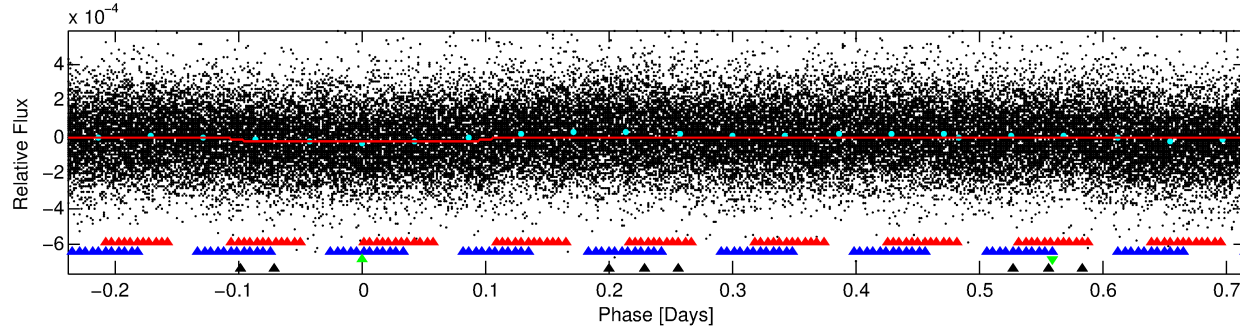
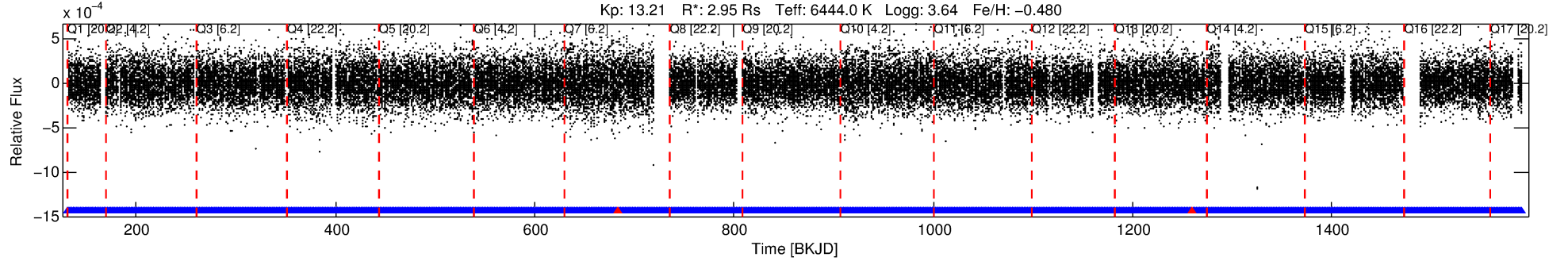
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006805146-03

No Significant Match Found

DV One-Page Summary

KIC: 6805146 Candidate: 3 of 4 Period: 0.954 d
KOI: K00668 Corr: No Ephemeris Match



DV Fit Results:

Period = 0.95402 [0.00001] d
Epoch = 131.8837 [0.0034] BKJD
Rp/R* = 0.0048 [0.0028]
a/R* = 1.55 [2.73]
b = 0.06 [50.29]
Seff = 29901.56 [17668.67]
Teq = 3353 [495] K
Rp = 1.55 [1.08] Re
a = 0.0212 [0.0077] AU
Ag = 0.85 [1.14] [-0.13 σ]
Teffp = 4974 [1516] K [1.02 σ]

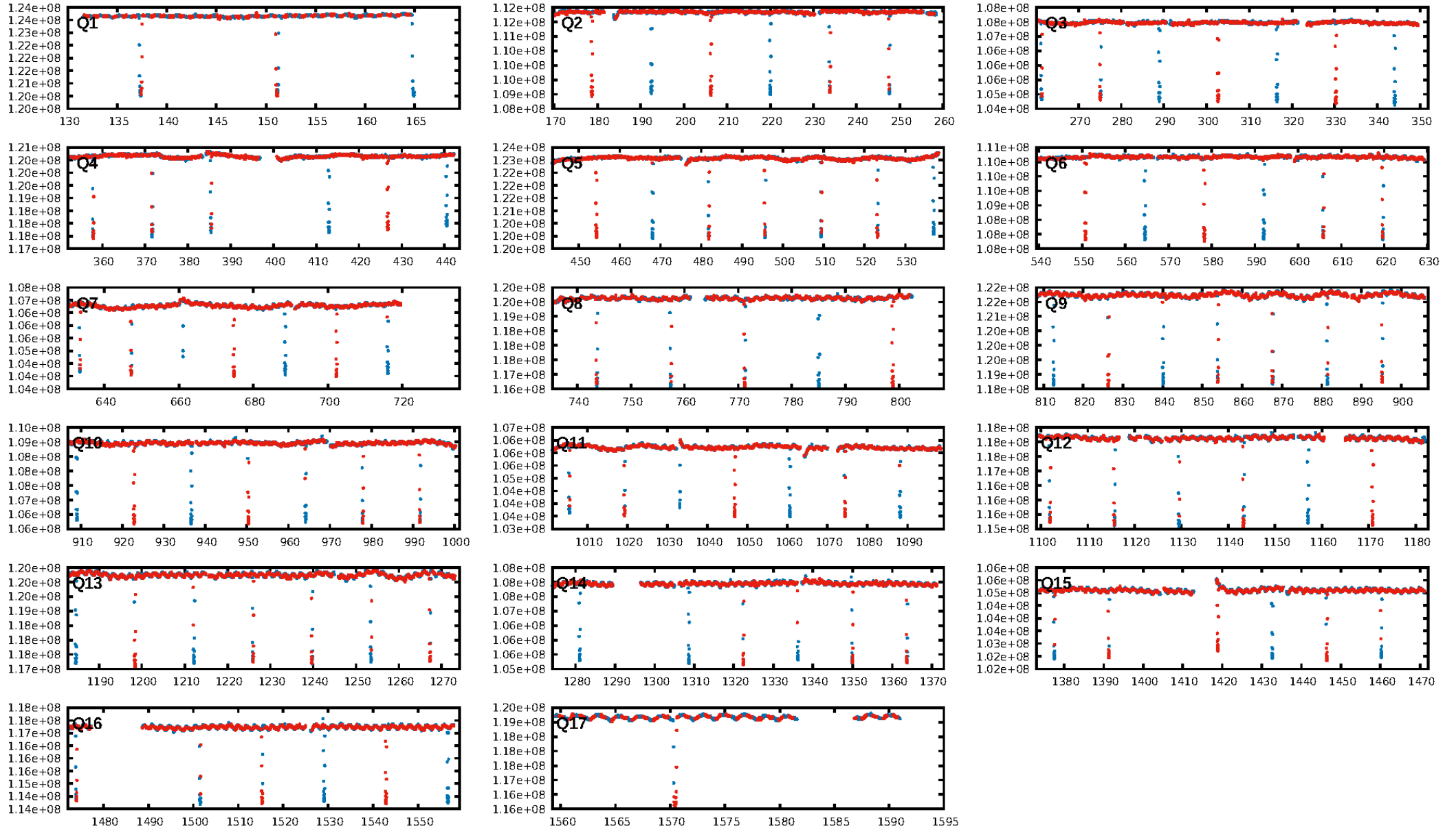
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [36.63 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.46e-15
RollingBand-fgt: 1.00 [1200/1202]
GhostDiagnostic-chr: 0.86
Centroid-sig: 12.3%
Centroid-so: 0.907 arcsec [1.12 σ]
OotOffset-rm: 0.106 arcsec [0.67 σ]
KicOffset-rm: 0.162 arcsec [1.14 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

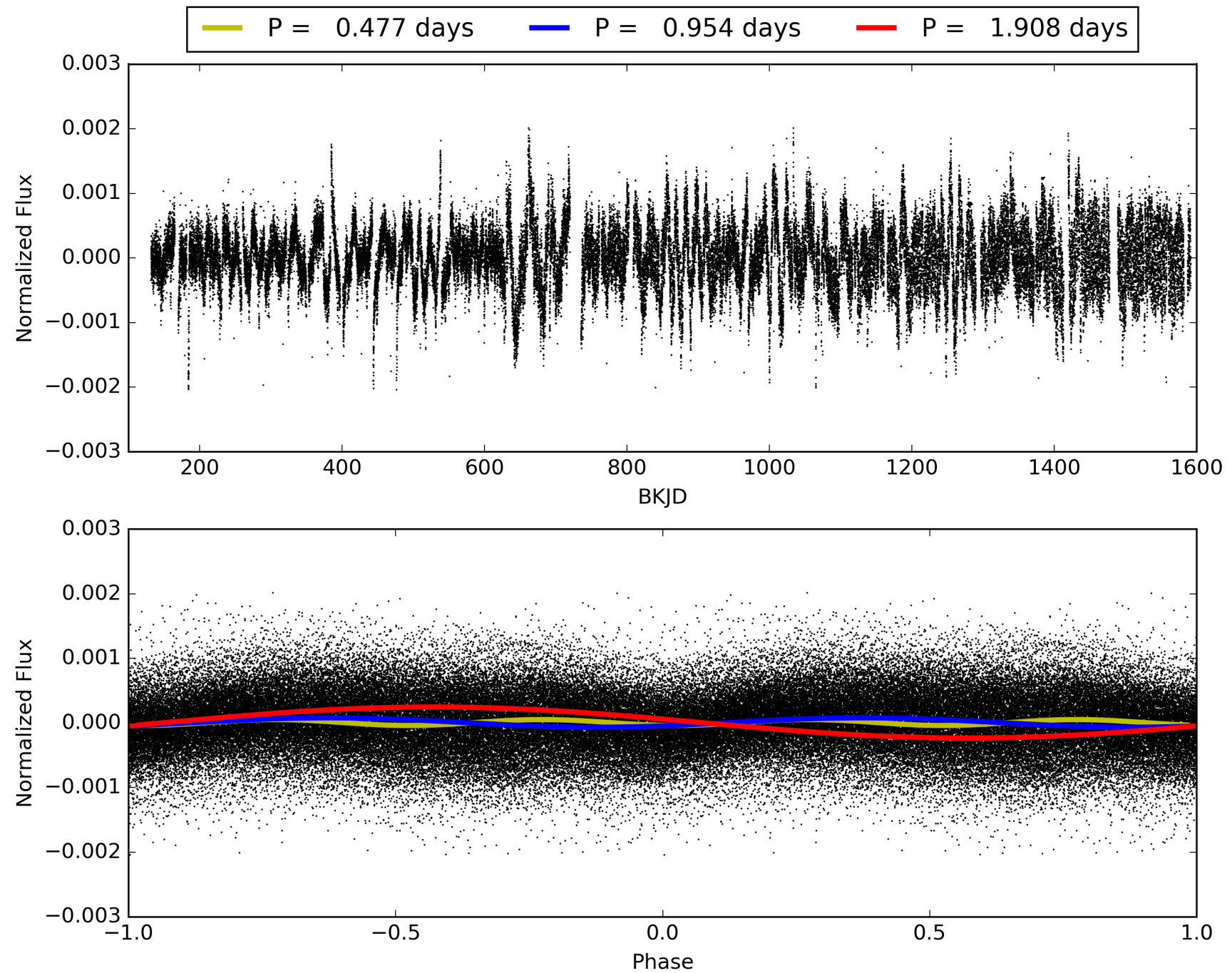
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 20:05:44 Z

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

TCE 006805146-03, PDC Light Curves

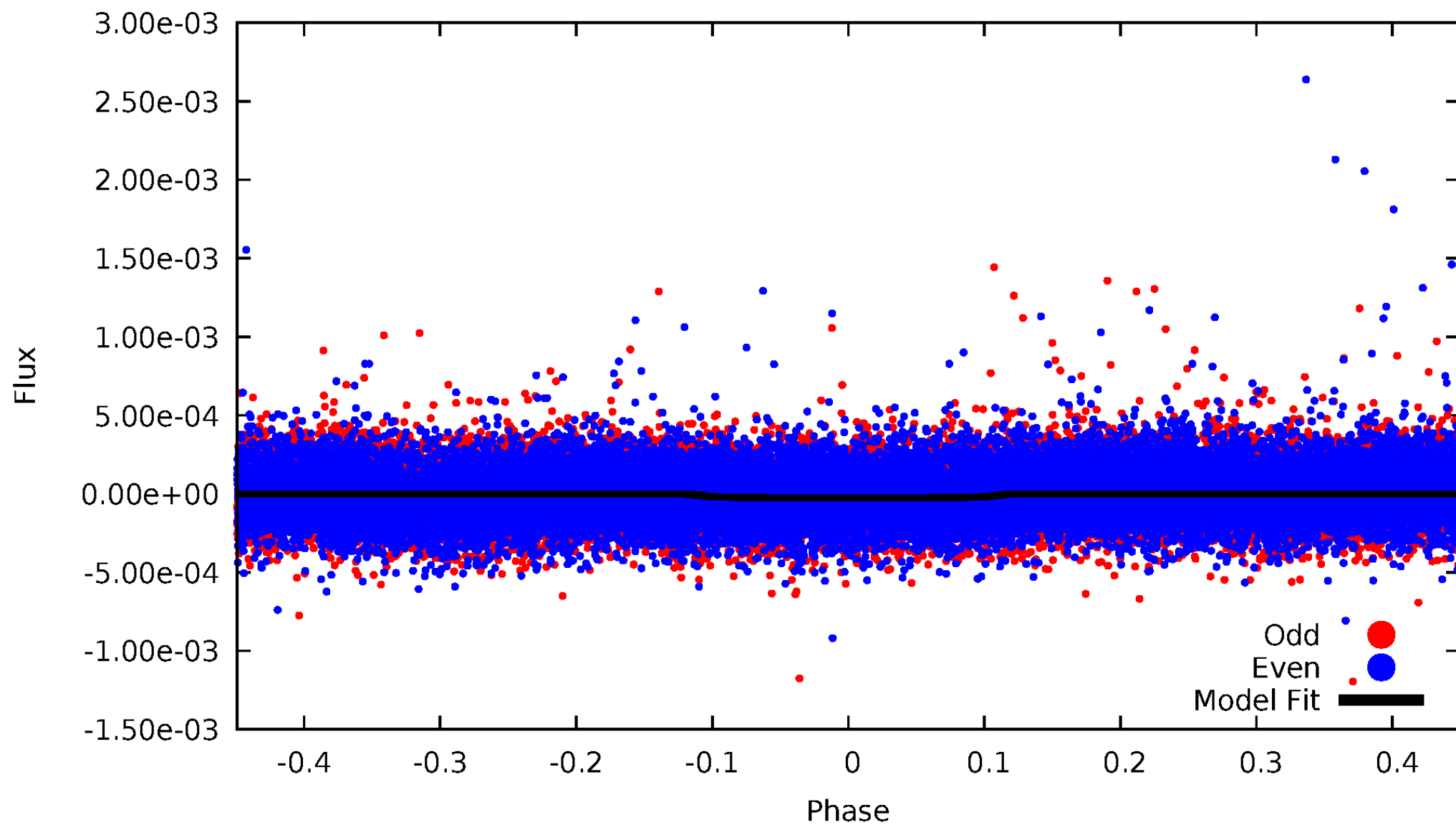


TCE 006805146-03



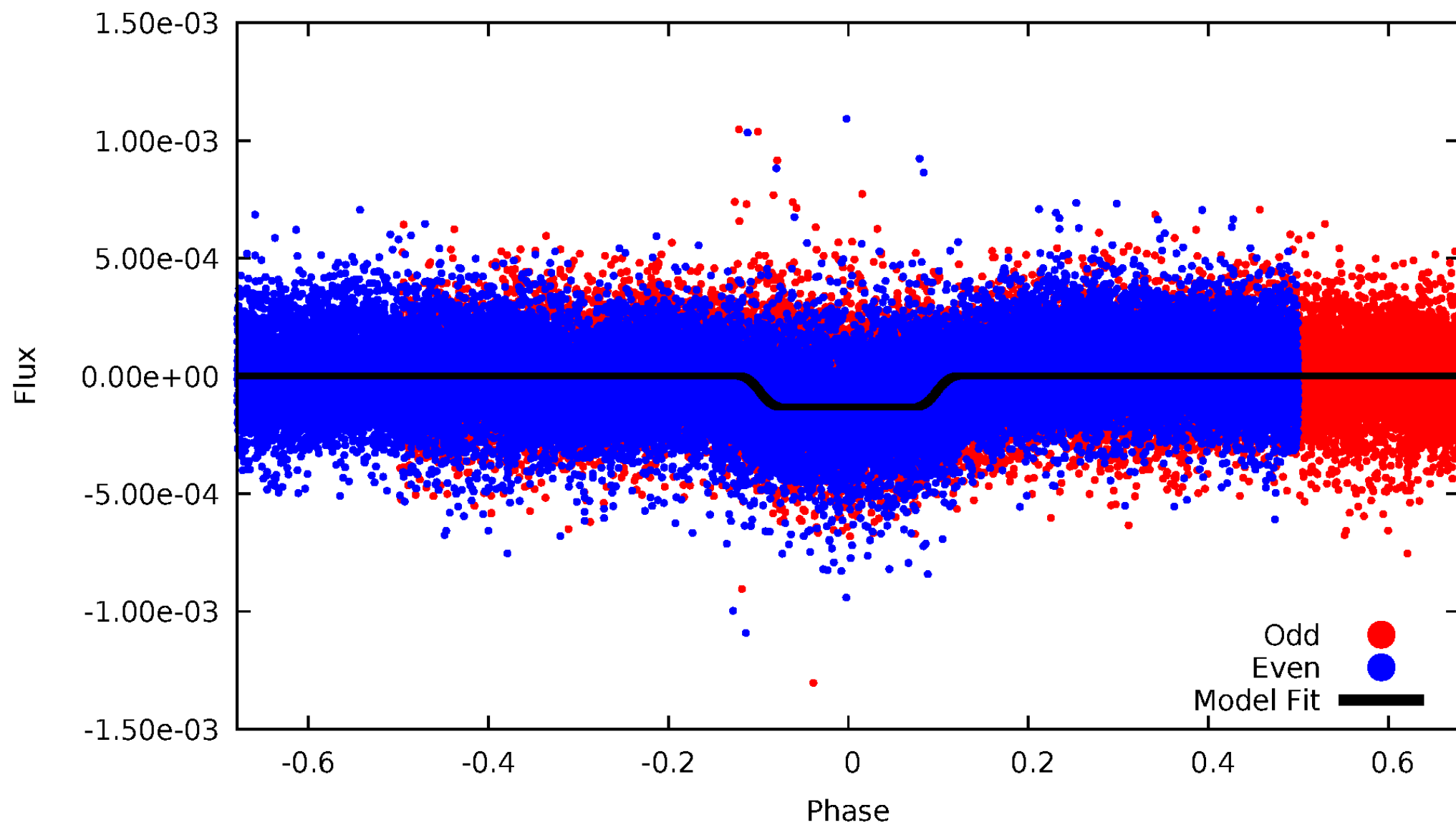
DV Odd/Even

TCE 006805146-03

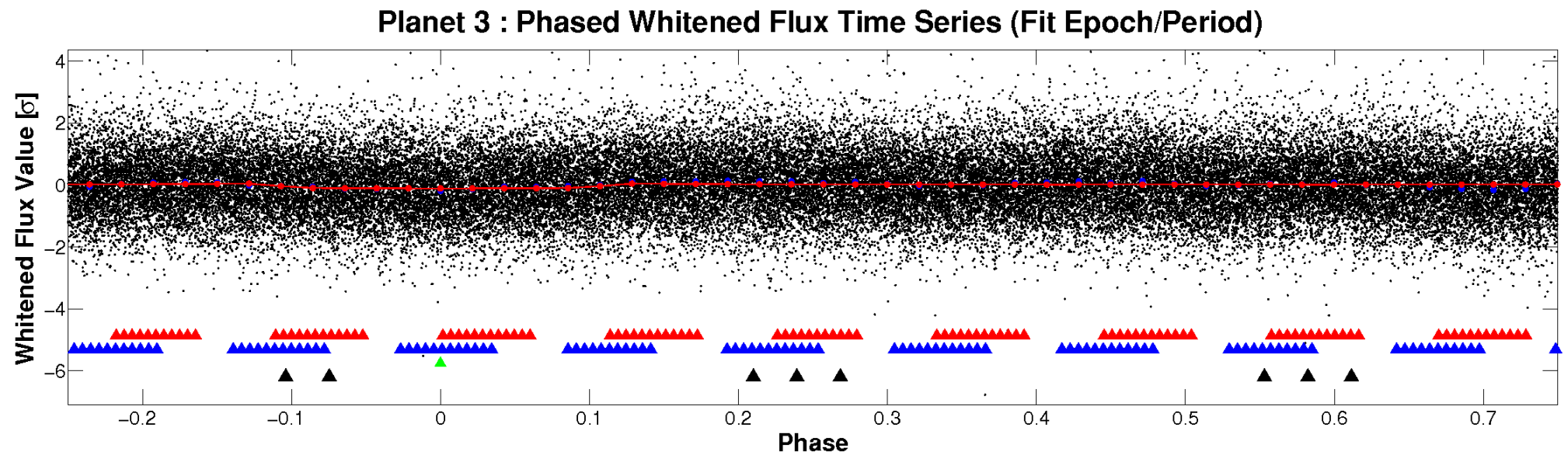
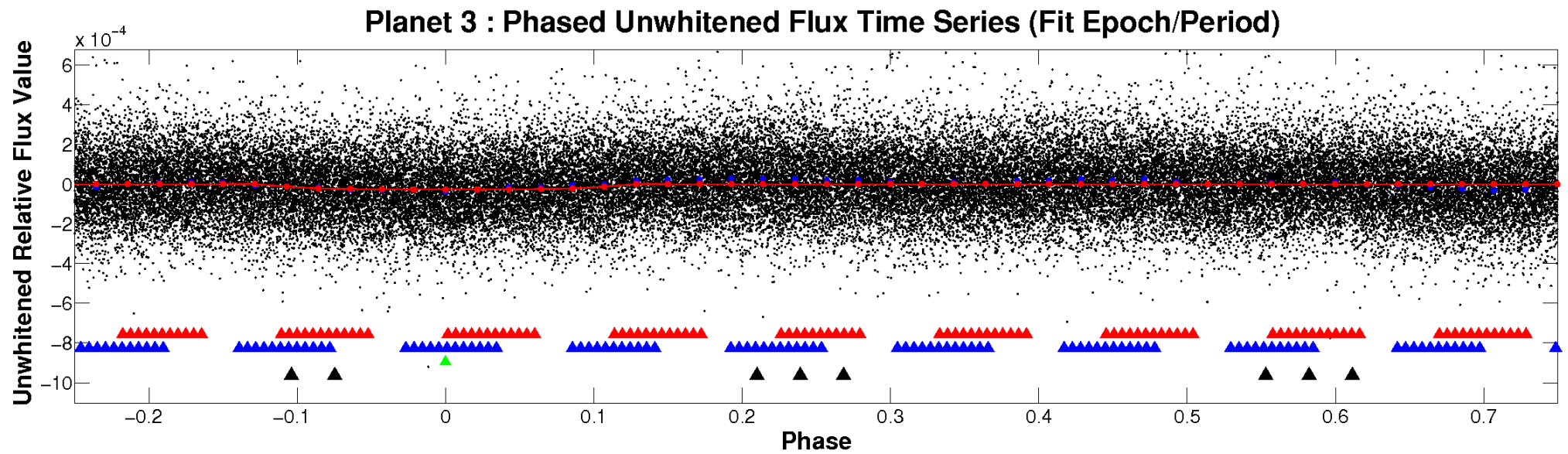


ALT Odd/Even

TCE 006805146-03

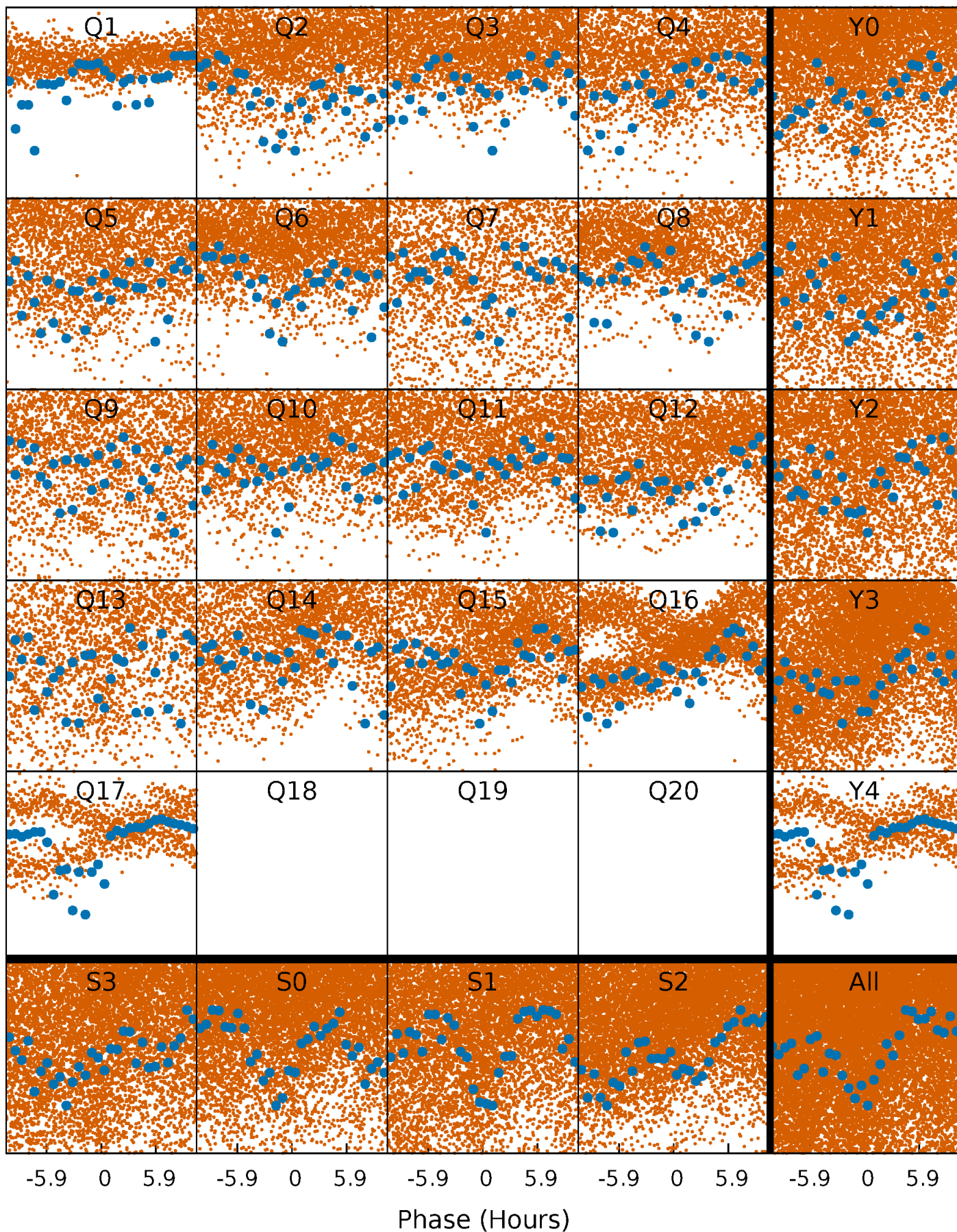


Non-Whitened Vs. Whitened Light Curve



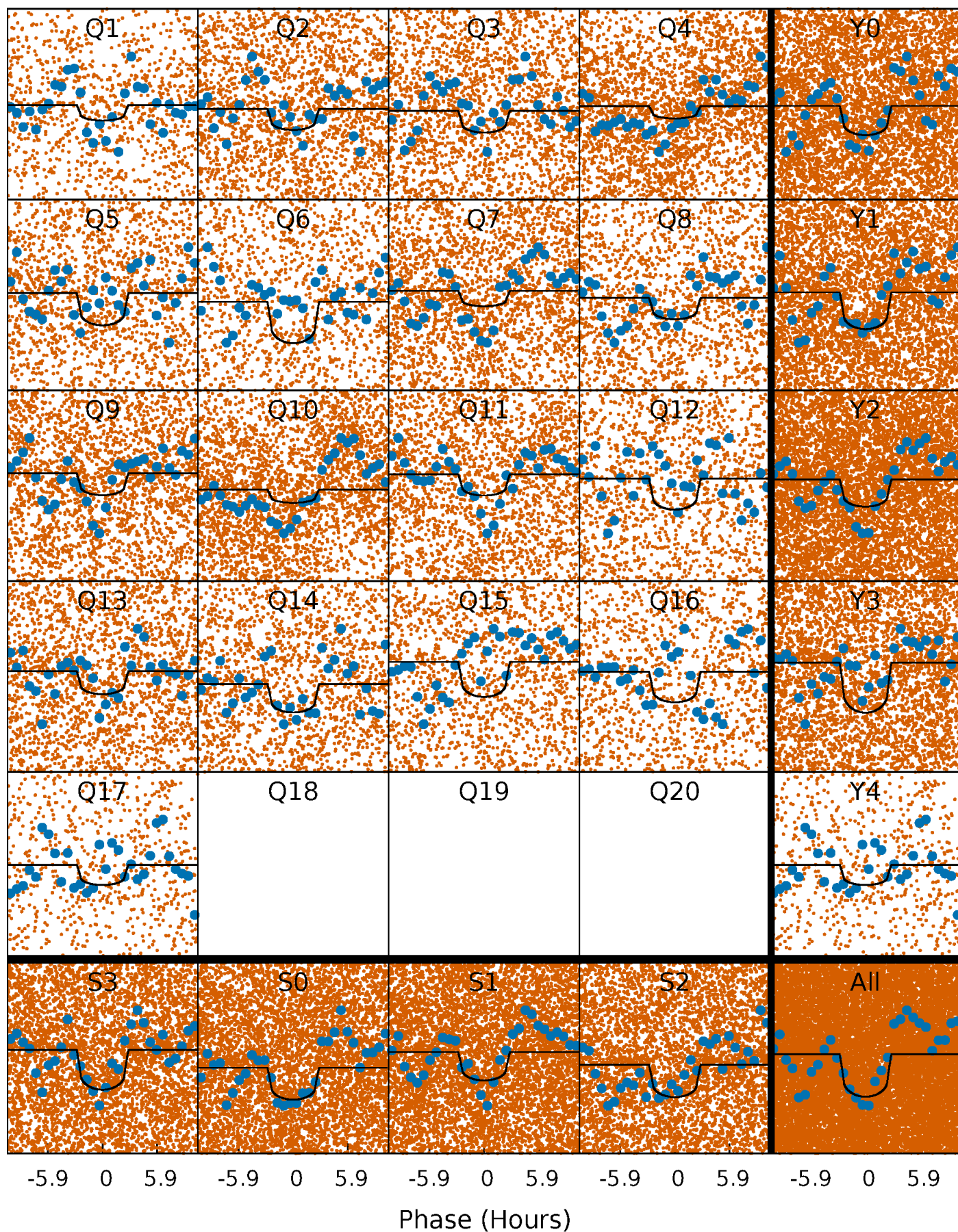
PDC Quarter-Phased Transit Curves

TCE 006805146-03 P= 0.954019 Days $T_0=131.883726$ (BKJD)



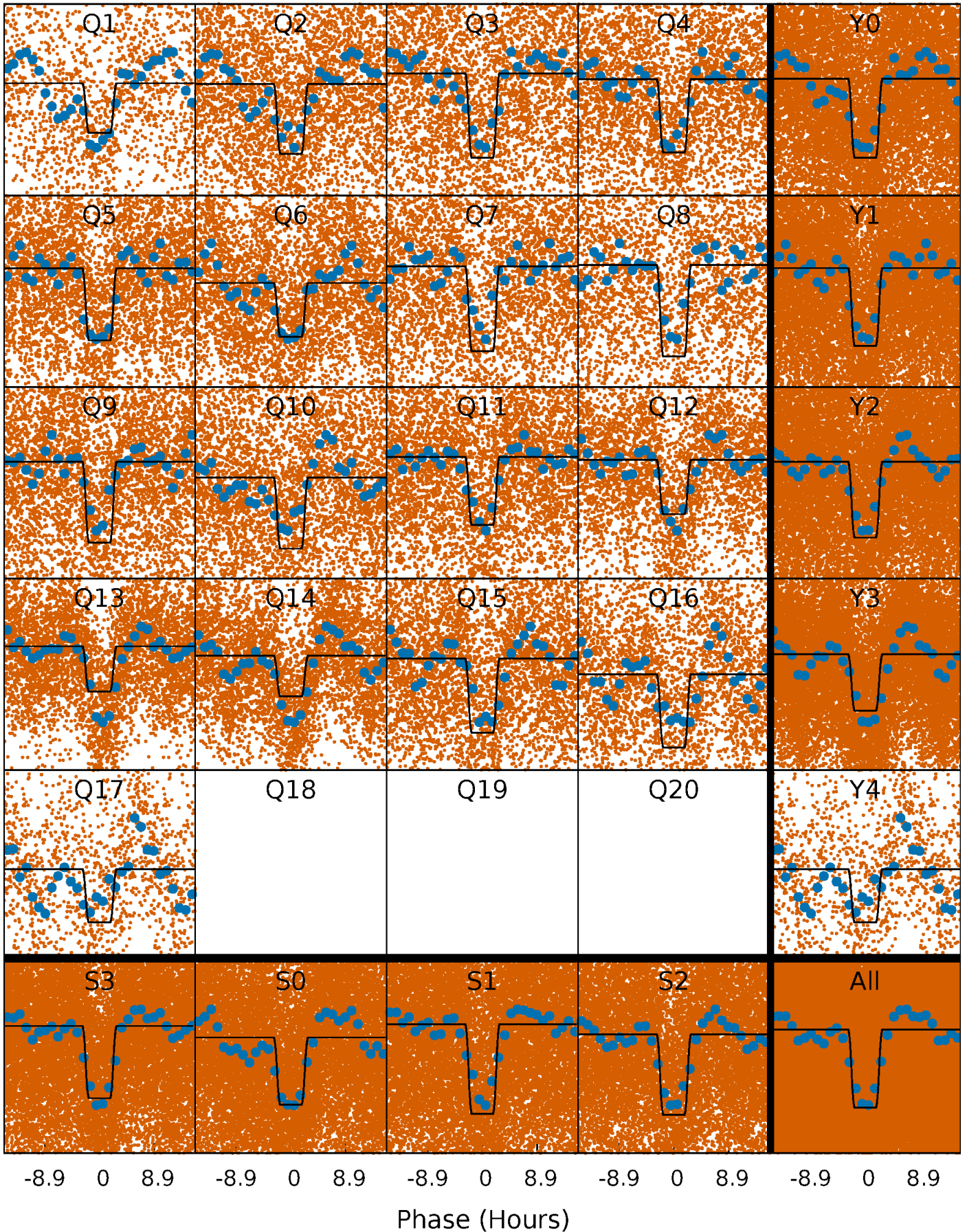
DV Quarter-Phased Transit Curves

TCE 006805146-03 P= 0.954019 Days $T_0=131.883726$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

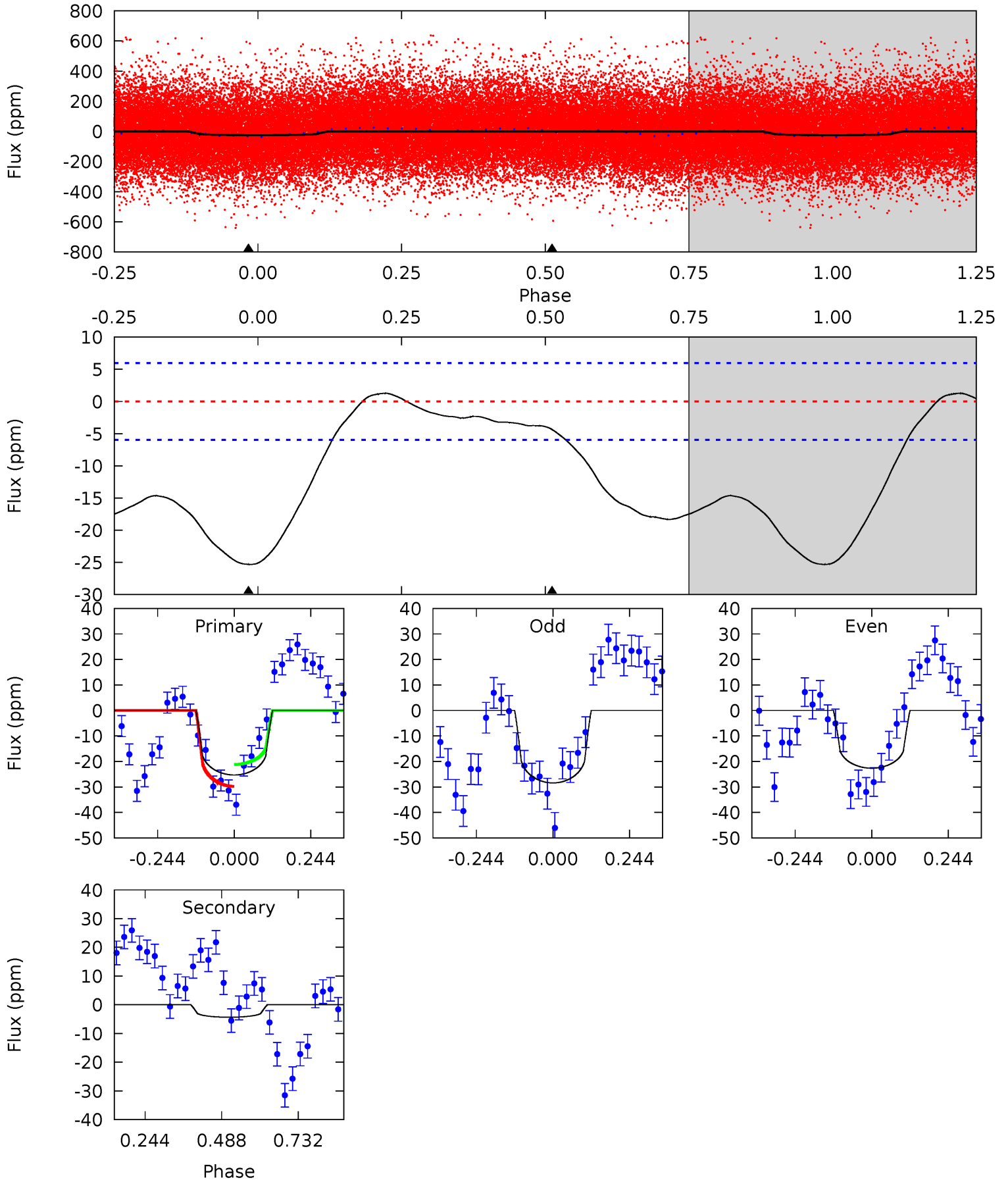
TCE 006805146-03 P= 0.954029 Days $T_0=131.873913$ (BKJD)



DV Model-Shift Uniqueness Test

006805146-03, P = 0.954019 Days, E = 131.883726 Days

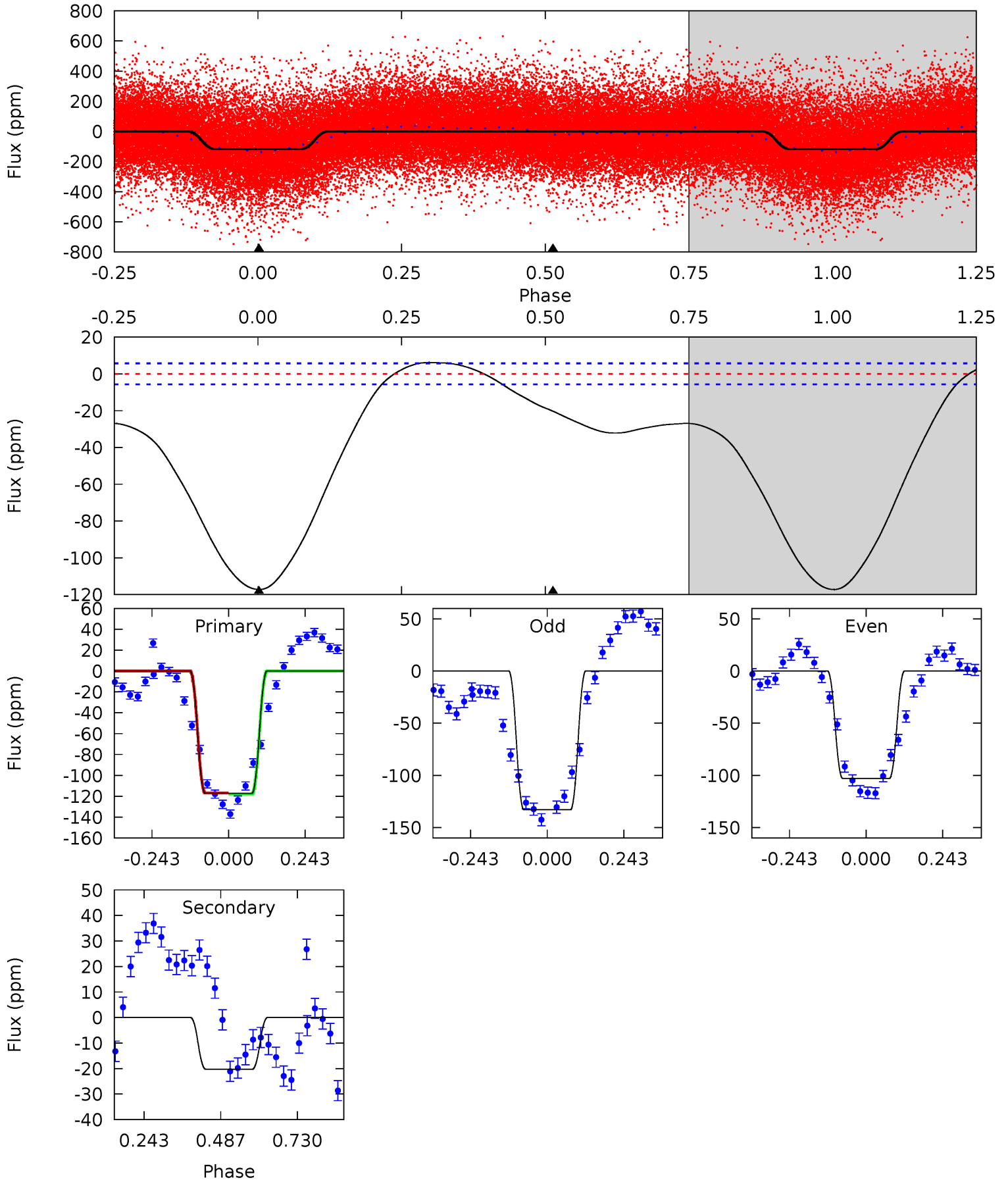
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.6	3.20	0	0	4.37	1.16	5.50	18.6	18.6	3.20	3.20	2.12	1.03	0.05	3.18



Alt Model-Shift Uniqueness Test

006805146-03, P = 0.954029 Days, E = 131.873913 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
90.2	15.6	0	0	4.37	1.17	11.5	90.2	90.2	15.6	15.6	11.4	1.02	0.05	0.40



Stellar Parameters For KIC 006805146

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6444^{+196}_{-177}	$3.643^{+0.337}_{-0.112}$	$-0.480^{+0.400}_{-0.250}$	$2.947^{+0.489}_{-1.142}$	$1.393^{+0.256}_{-0.313}$	$0.077^{+0.190}_{-0.026}$
	+3%/-3%	+9%/-3%	+83%/-52%	+17%/-39%	+18%/-22%	+248%/-35%
Source	PHO1	FLK73	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 006805146-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-4 ± 1	$1.46^{+0.94}_{-0.75}$	4609^{+312}_{-420}	3714^{+1995}_{-7240}	$0.501^{+1.570}_{-0.318}$
Alt.	-20 ± 1	$3.48^{+1.09}_{-1.03}$	4612^{+309}_{-441}	3462^{+862}_{-6640}	$0.420^{+0.404}_{-0.176}$

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 $A_{obs} \gg 1.0$

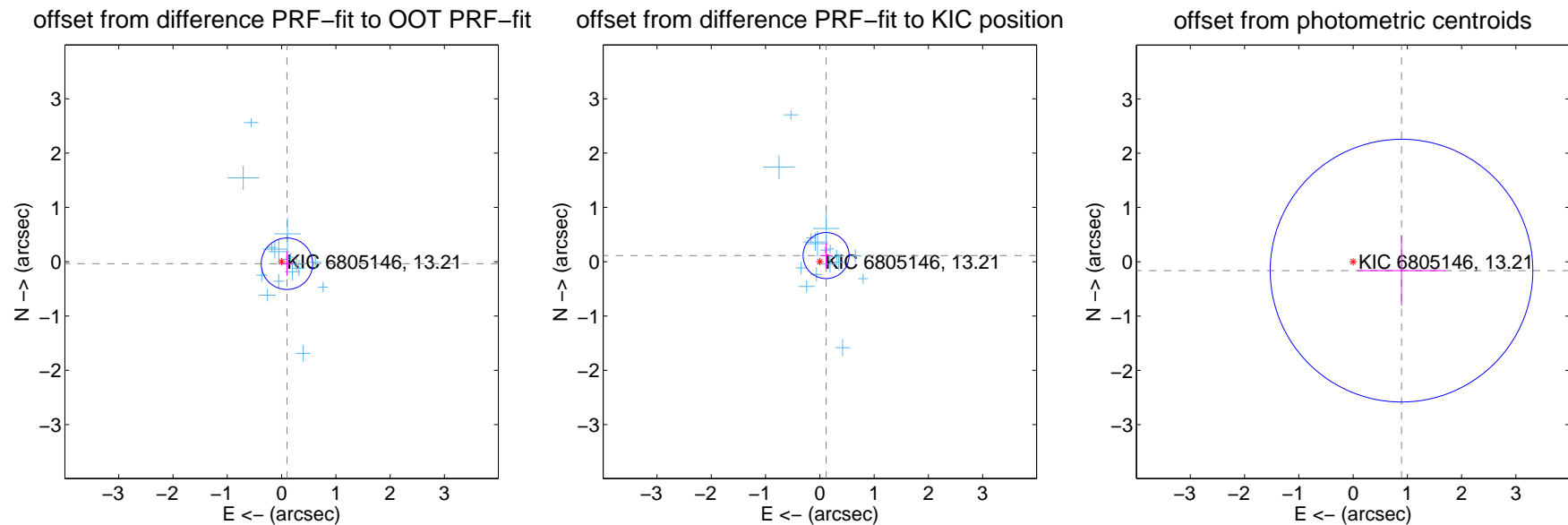
DV Centroid Data

Supplemental centroid analysis for 006805146-03. Kepler magnitude: 13.21. Transit SNR 11.73

There are 17 quarters with good PRF difference image offsets

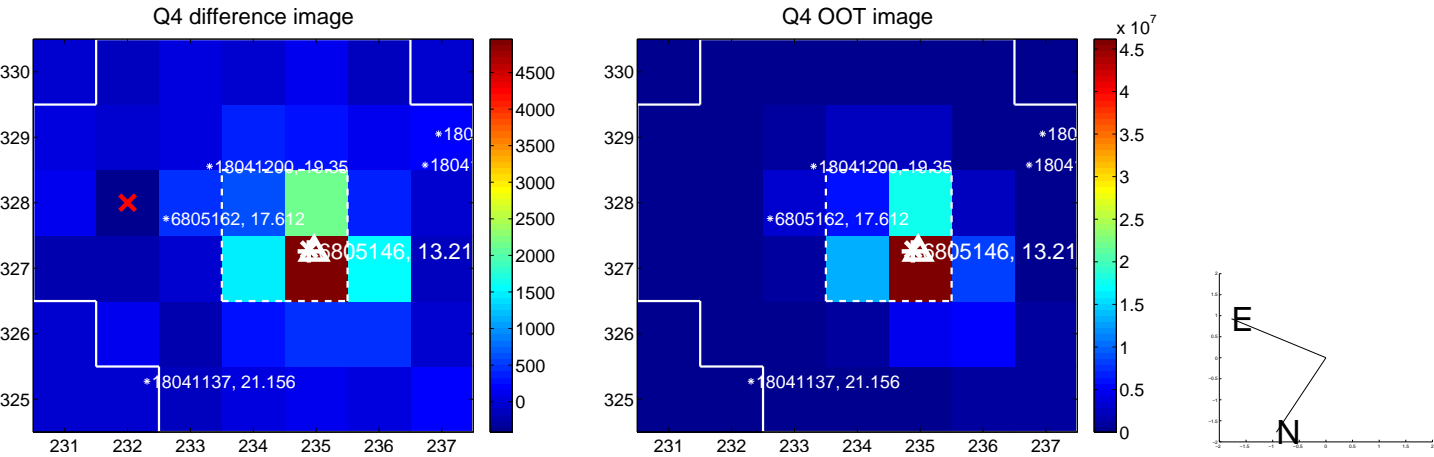
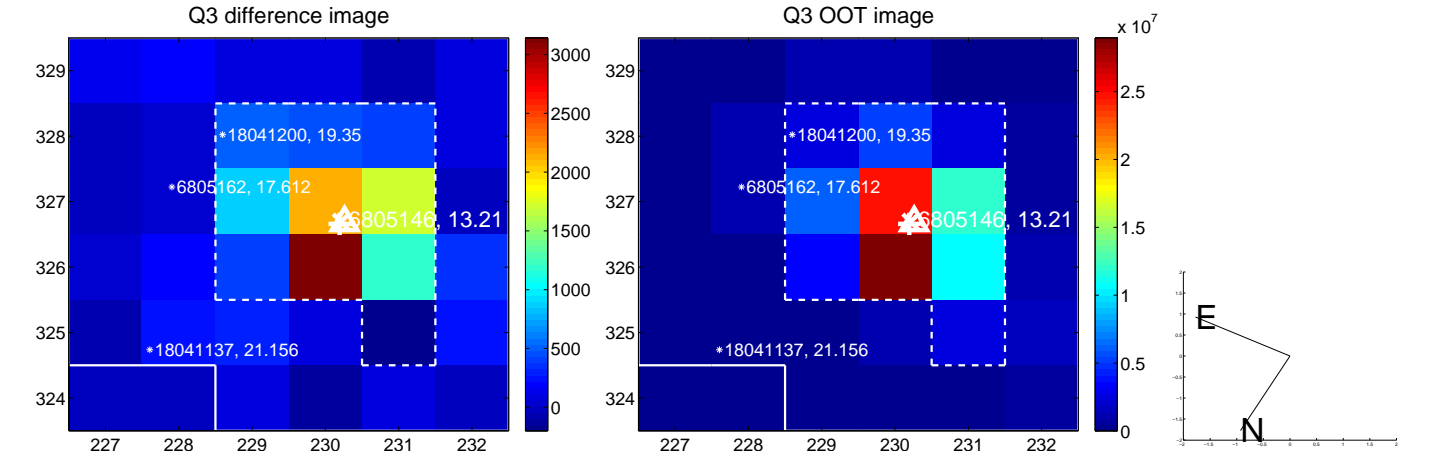
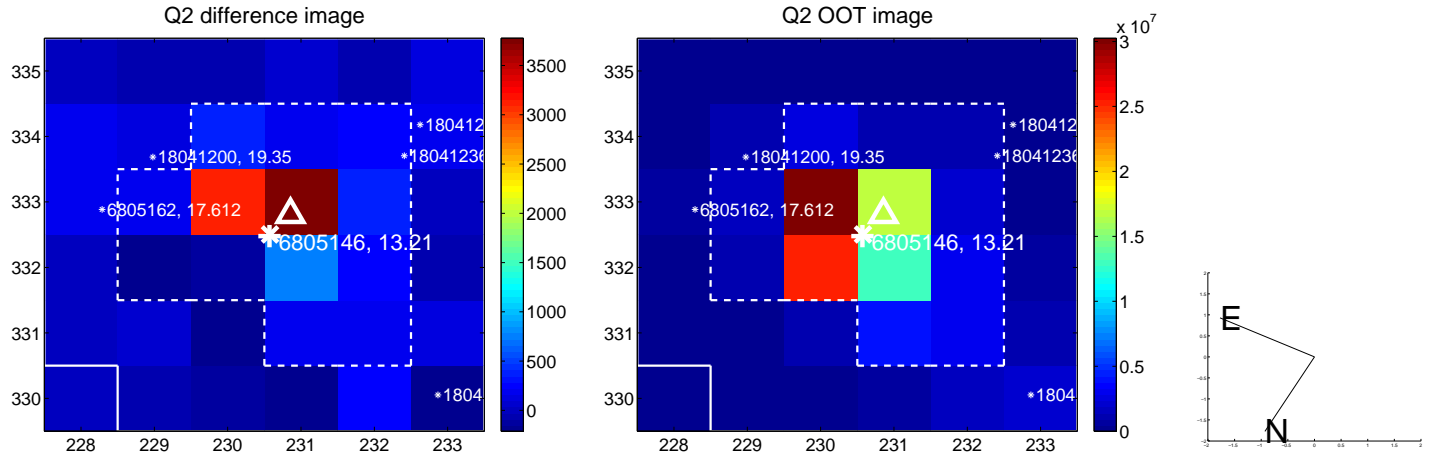
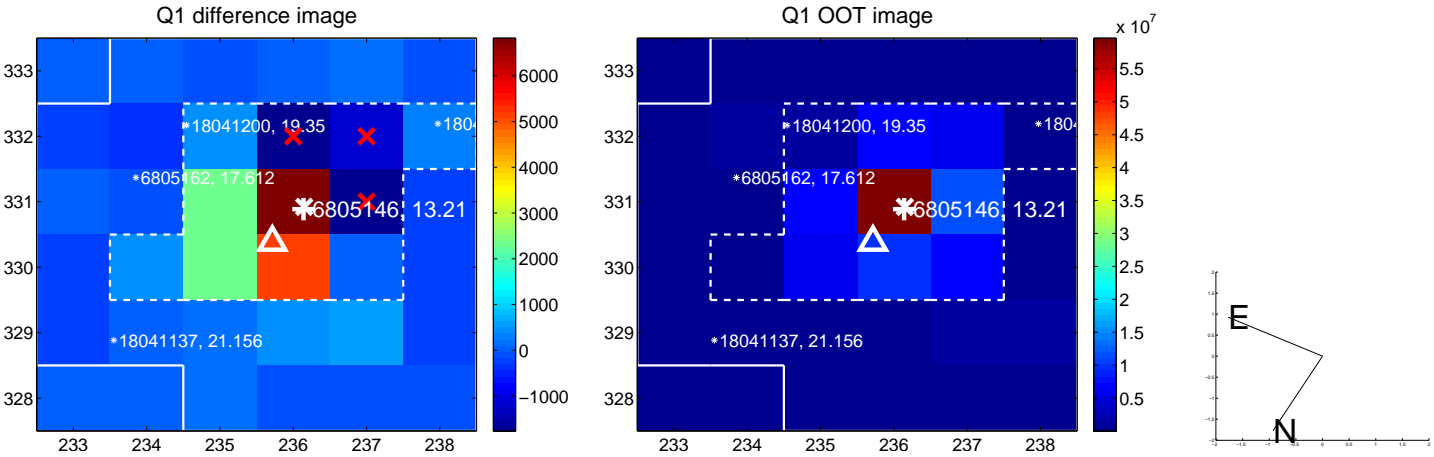
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.106 ± 0.158	0.67	-0.099 ± 0.113	-0.038 ± 0.222
PRF-fit source offset from KIC position	0.162 ± 0.141	1.14	-0.115 ± 0.114	0.113 ± 0.227
photometric centroid source offset	0.91 ± 0.81	1.12	-0.89 ± 0.81	-0.16 ± 0.64

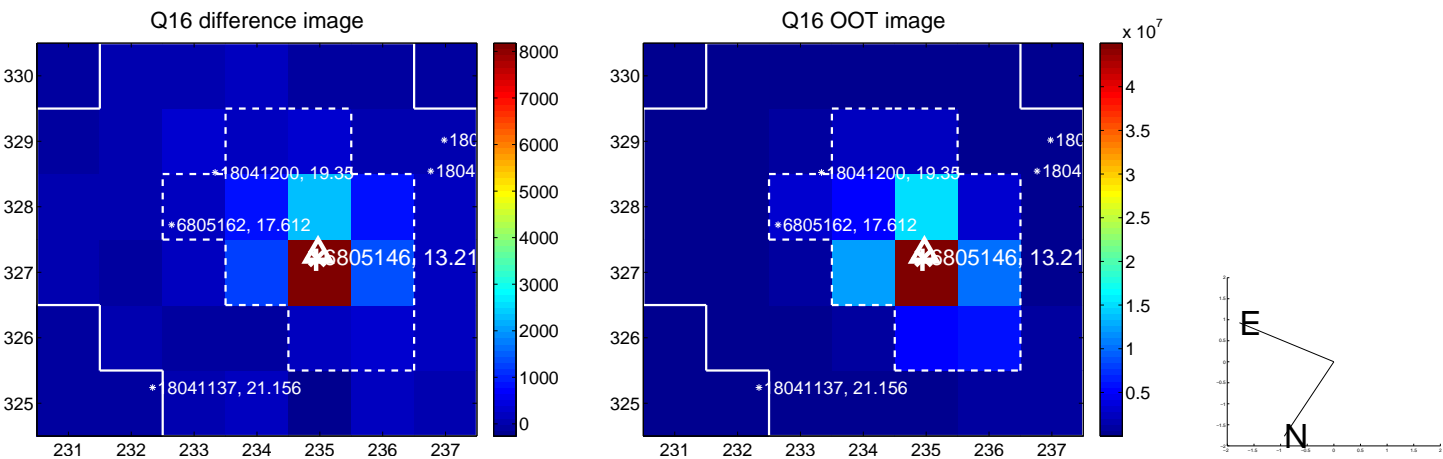
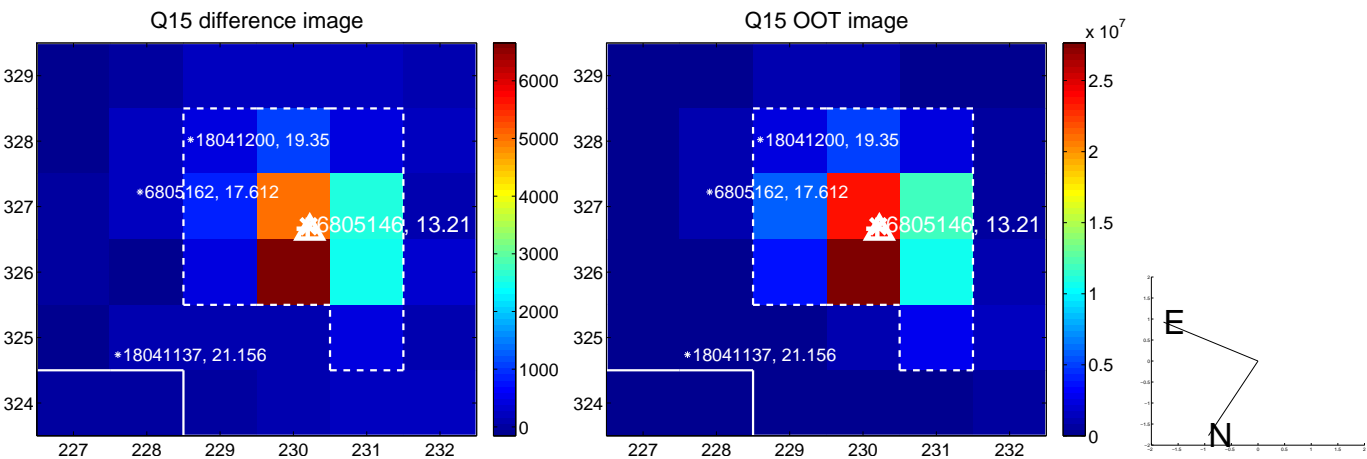
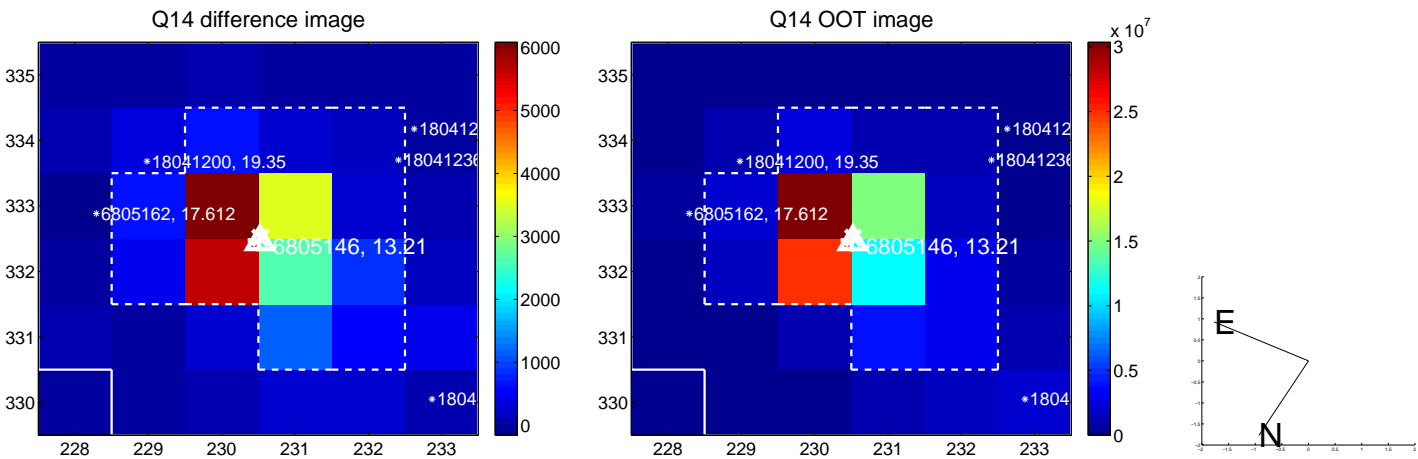
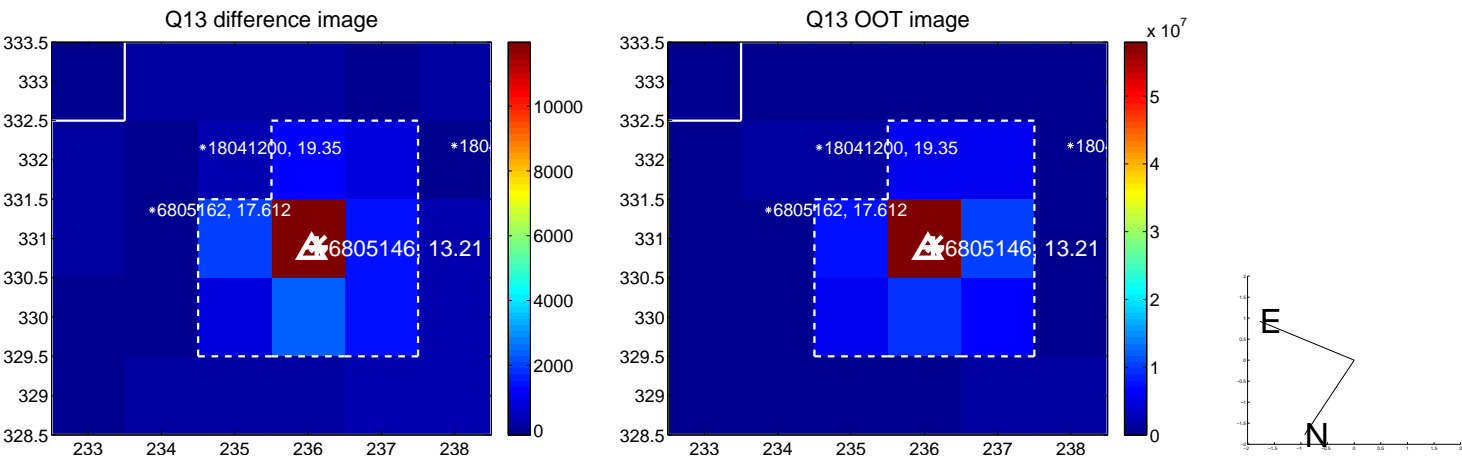


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

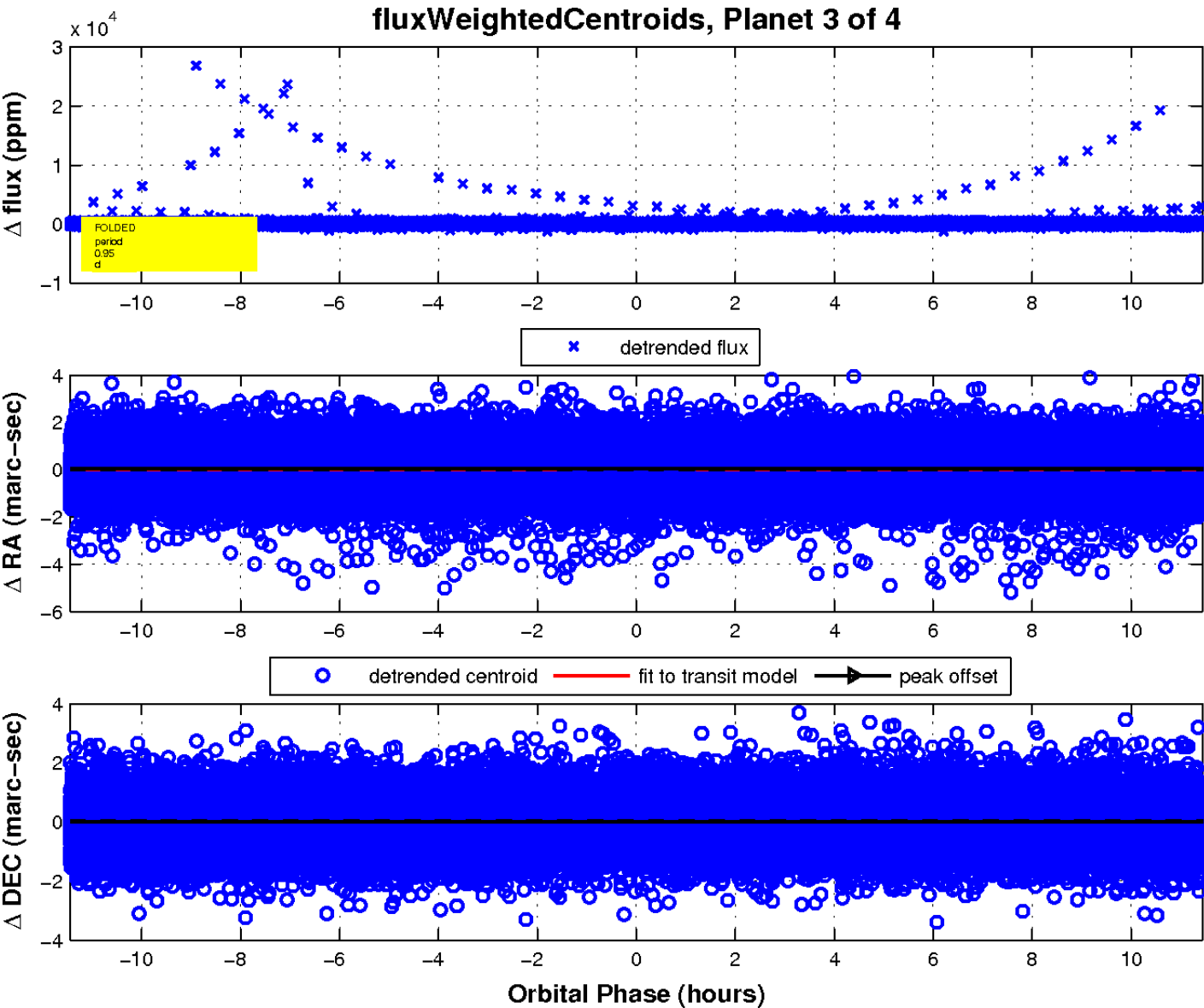
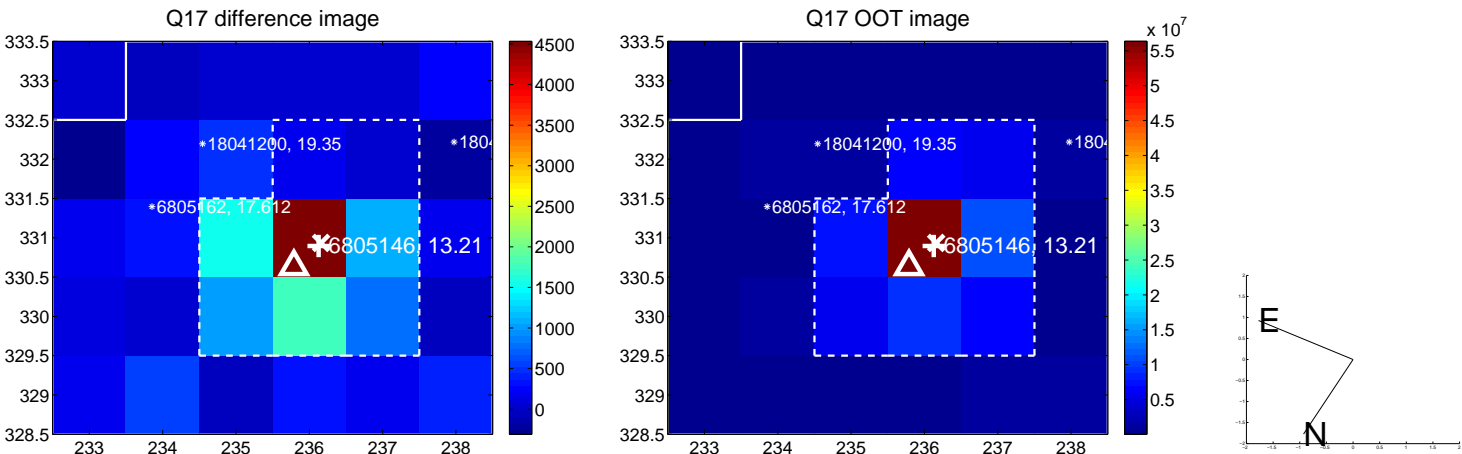
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

