

KIC 001162150

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})
001162150-01	OBS	No	1.130556	131.639315	64.0	2.329	9.4	9.6	4.31	7090	4.00	57035.08
001162150-02	OBS	No	0.710008	131.747505	40.3	1.924	8.5	6.0	4.31	7090	3.16	0.00
001162150-03	OBS	No	0.710011	131.995345	55.9	2.919	7.9	9.4	4.31	7090	3.74	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
001162150-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_SATURATED
001162150-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_SATURATED
001162150-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED

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

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

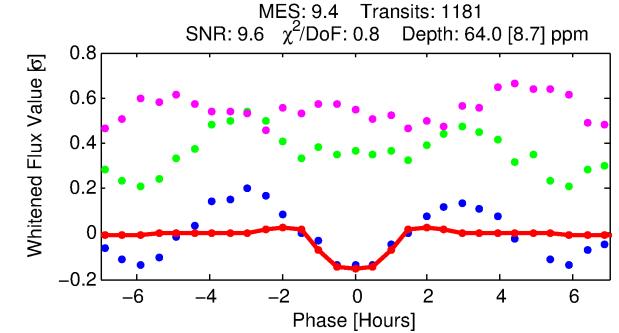
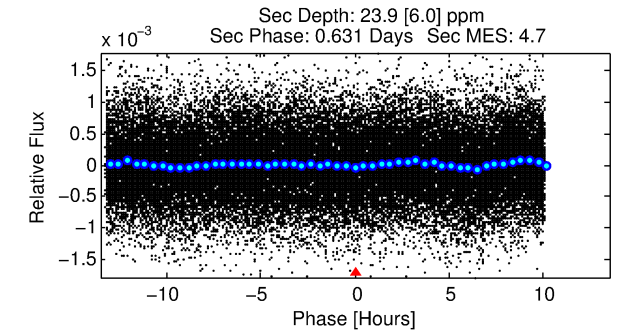
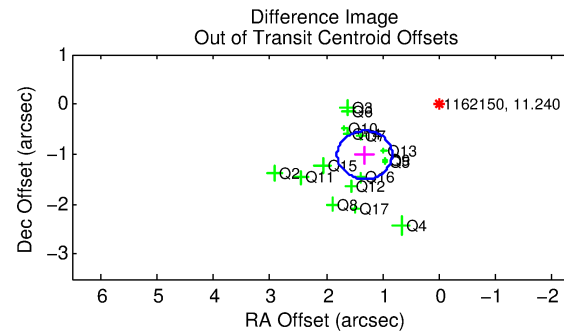
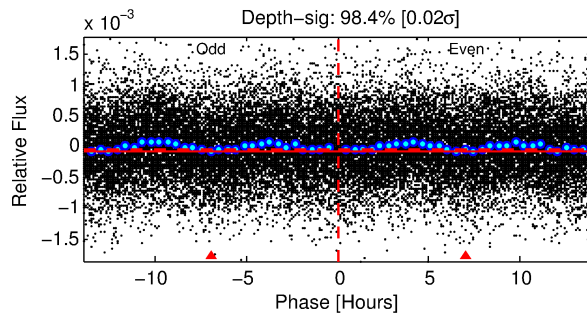
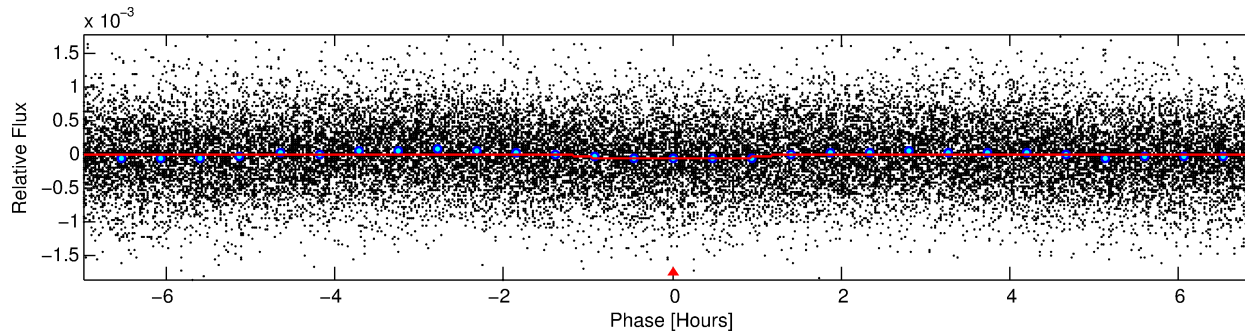
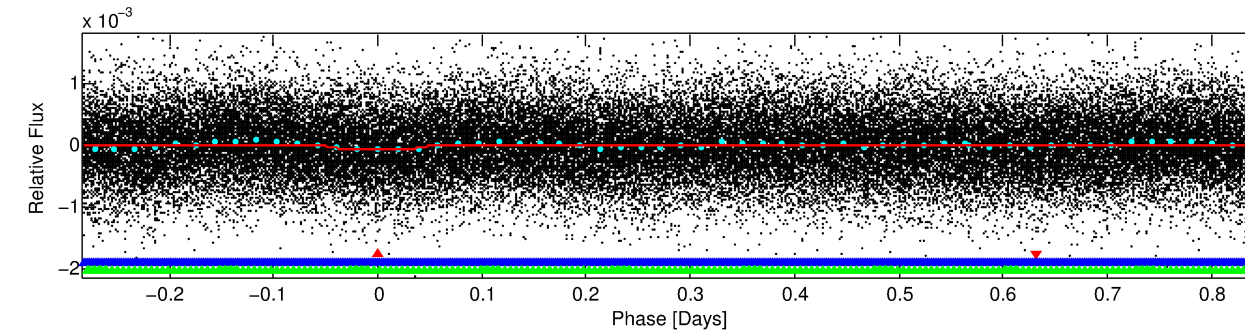
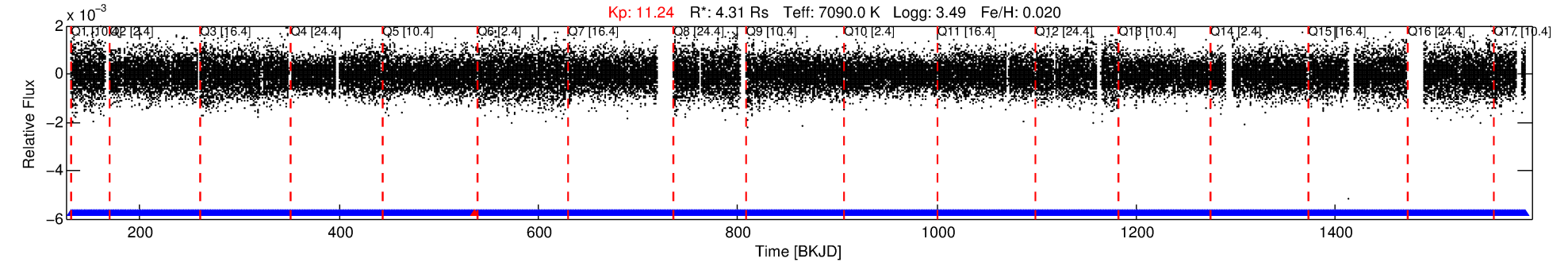
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 001162150-01

No Significant Match Found

DV One-Page Summary

KIC: 1162150 Candidate: 1 of 3 Period: 1.131 d



DV Fit Results:

Period = 1.13056 [0.00001] d
Epoch = 131.6393 [0.0031] BKJD
Rp/R* = 0.0085 [0.0048]
a/R* = 1.95 [5.02]
b = 0.90 [0.77]
Seff = 57035.08 [58841.06]
Teq = 3941 [1016] K
Rp = 4.00 [3.25] Re
a = 0.0272 [0.0166] AU
Ag = 0.61 [0.93] [-0.42 σ]
Teffp = 5374 [1565] K [0.77 σ]

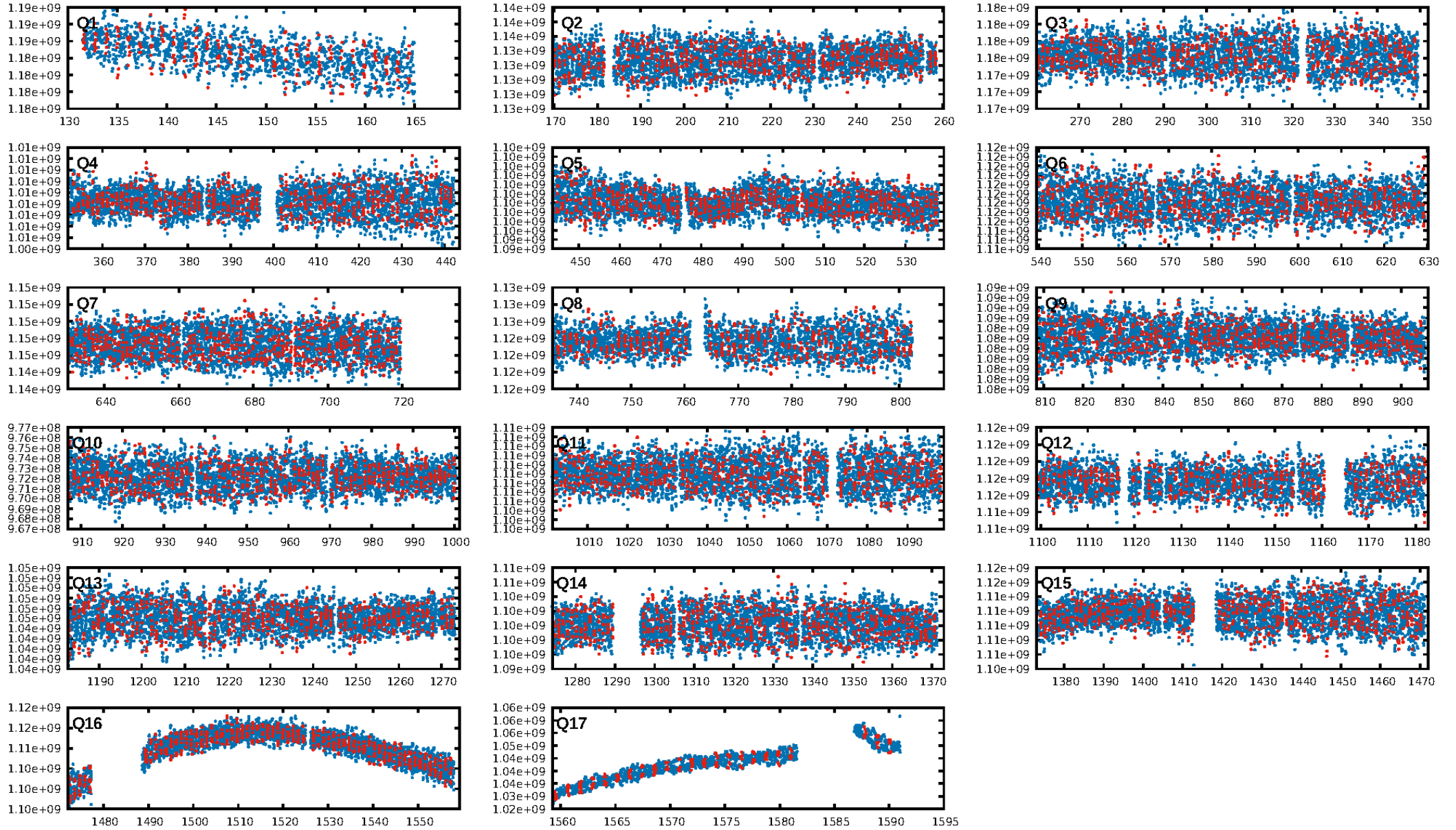
DV Diagnostic Results:

ShortPeriod-sig: 99.3% [2.70 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 8.01e-10
RollingBand-fgt: 1.00 [1127/1128]
GhostDiagnostic-chr: 1.464
Centroid-sig: 0.0%
Centroid-so: 1.344 arcsec [2.29 σ]
OotOffset-rm: 1.667 arcsec [10.30 σ]
KicOffset-rm: 2.340 arcsec [14.54 σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 1.00 [16/16]
DiffImageOverlap-fno: 0.00 [0/17]

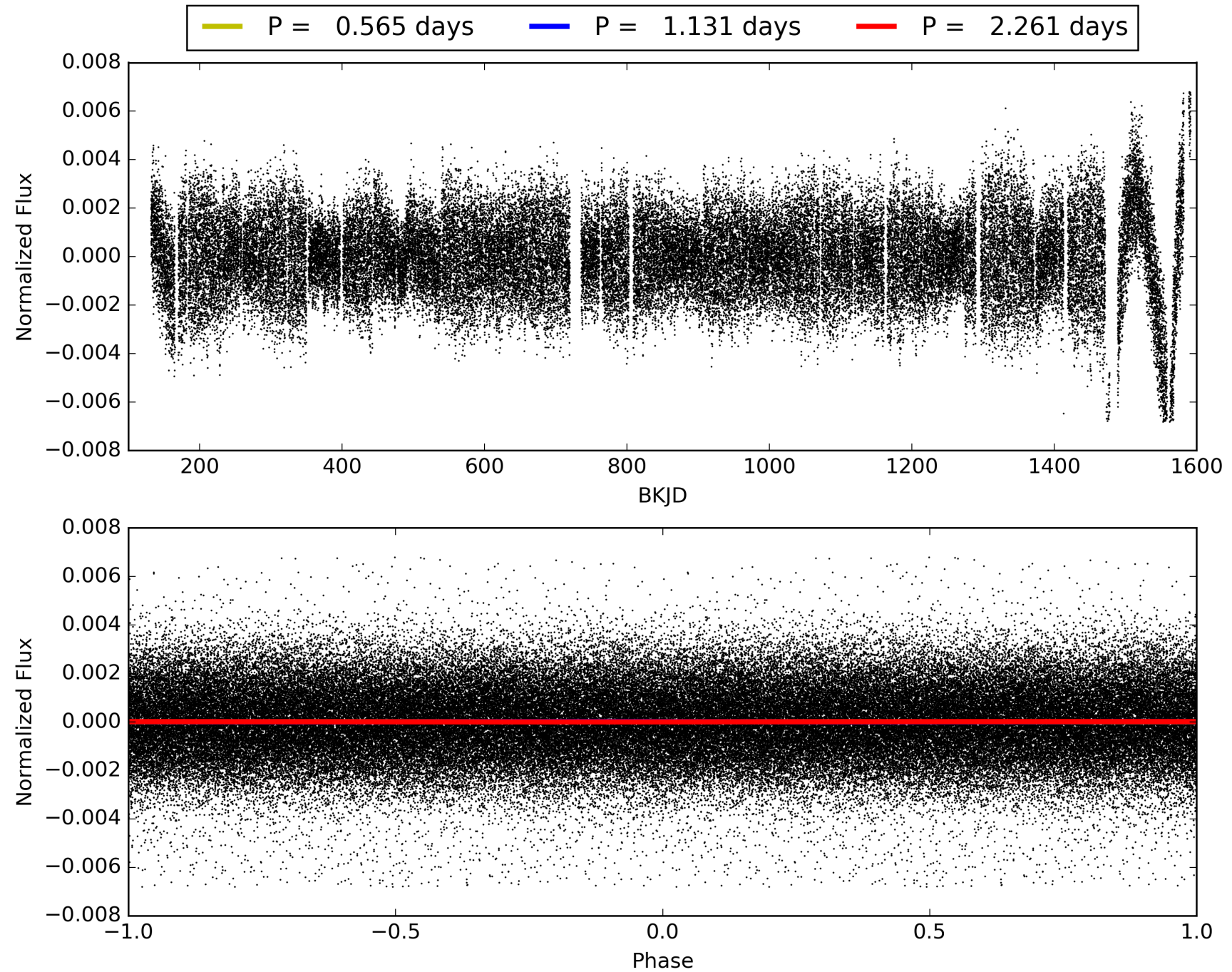
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 11:45:19 Z

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

TCE 001162150-01, PDC Light Curves

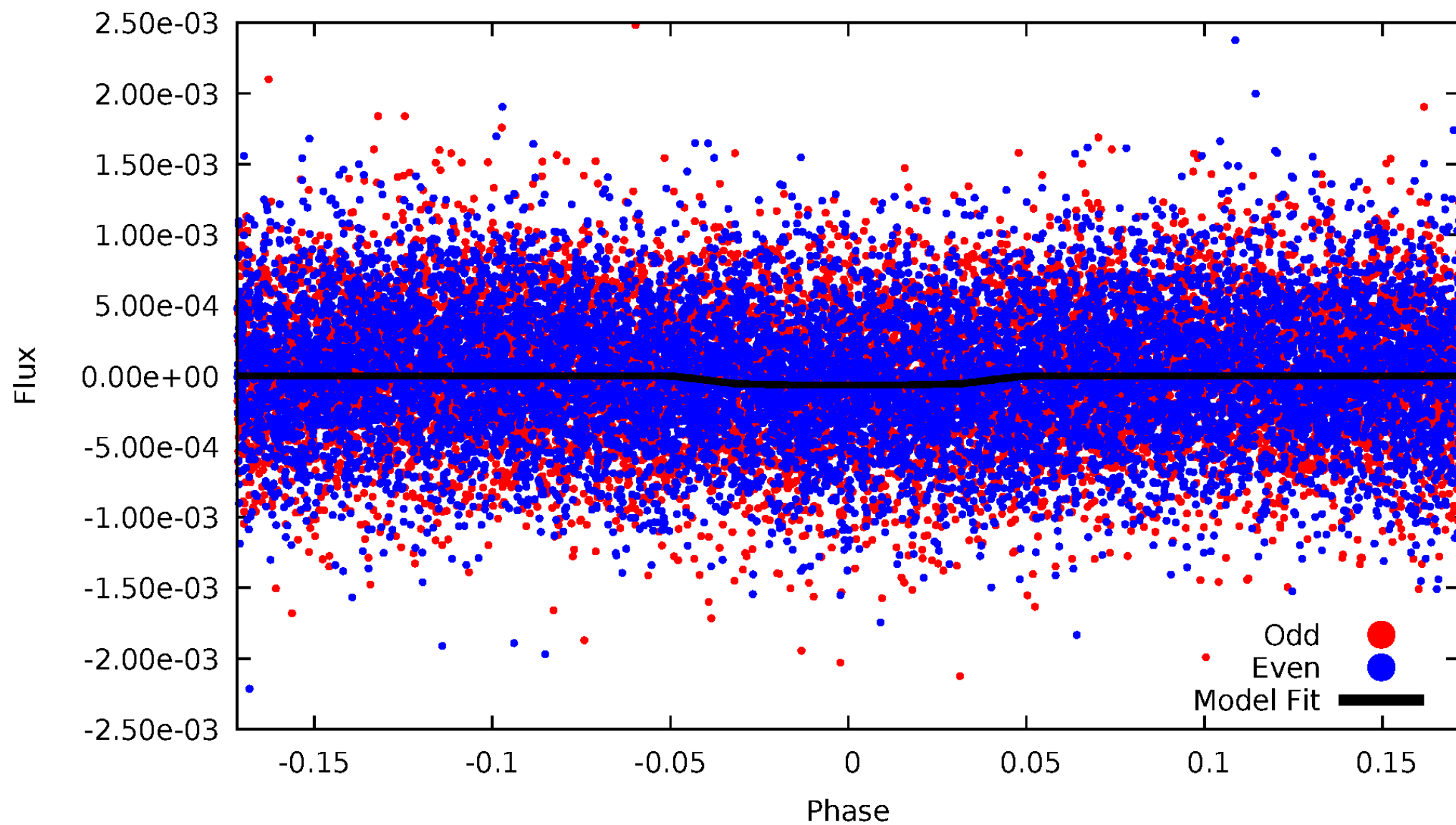


TCE 001162150-01



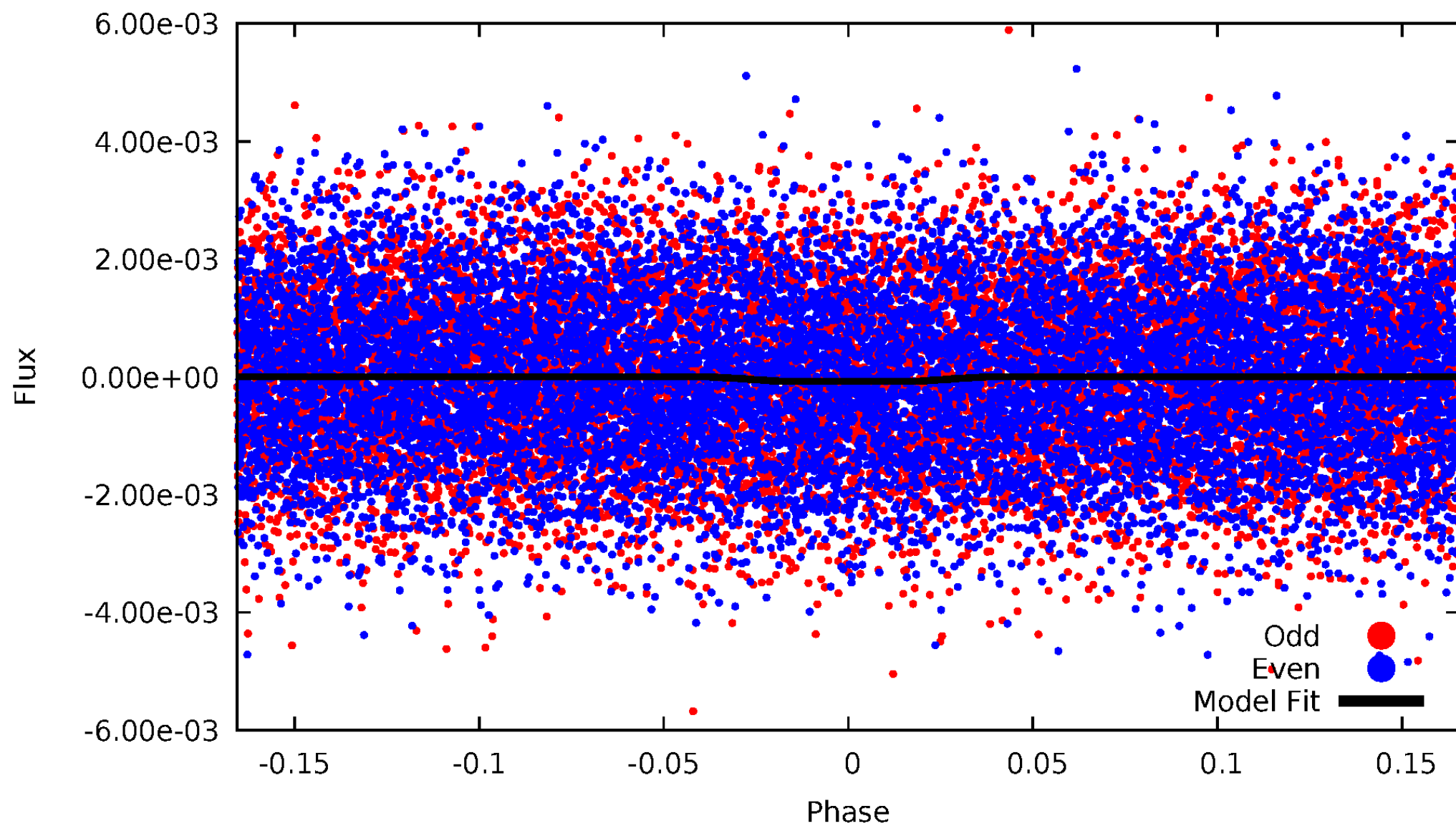
DV Odd/Even

TCE 001162150-01



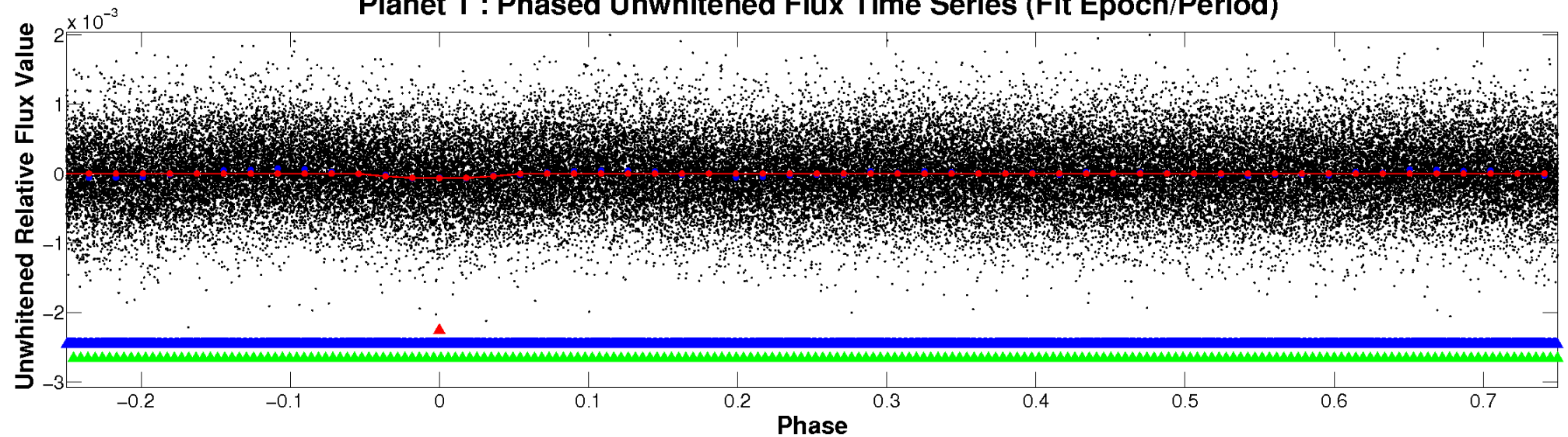
ALT Odd/Even

TCE 001162150-01

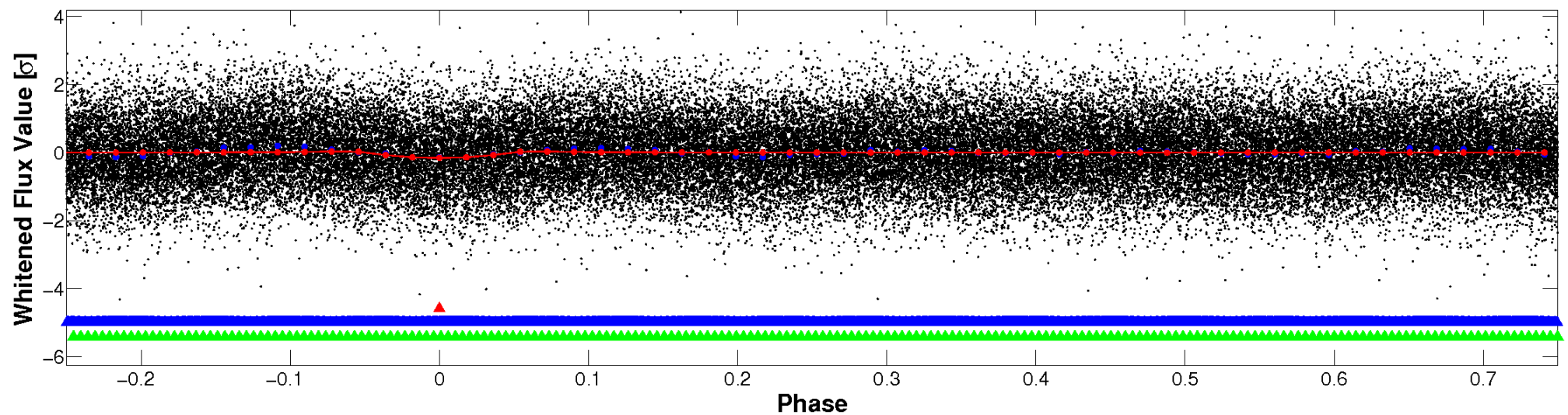


Non-Whitened Vs. Whitened Light Curve

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

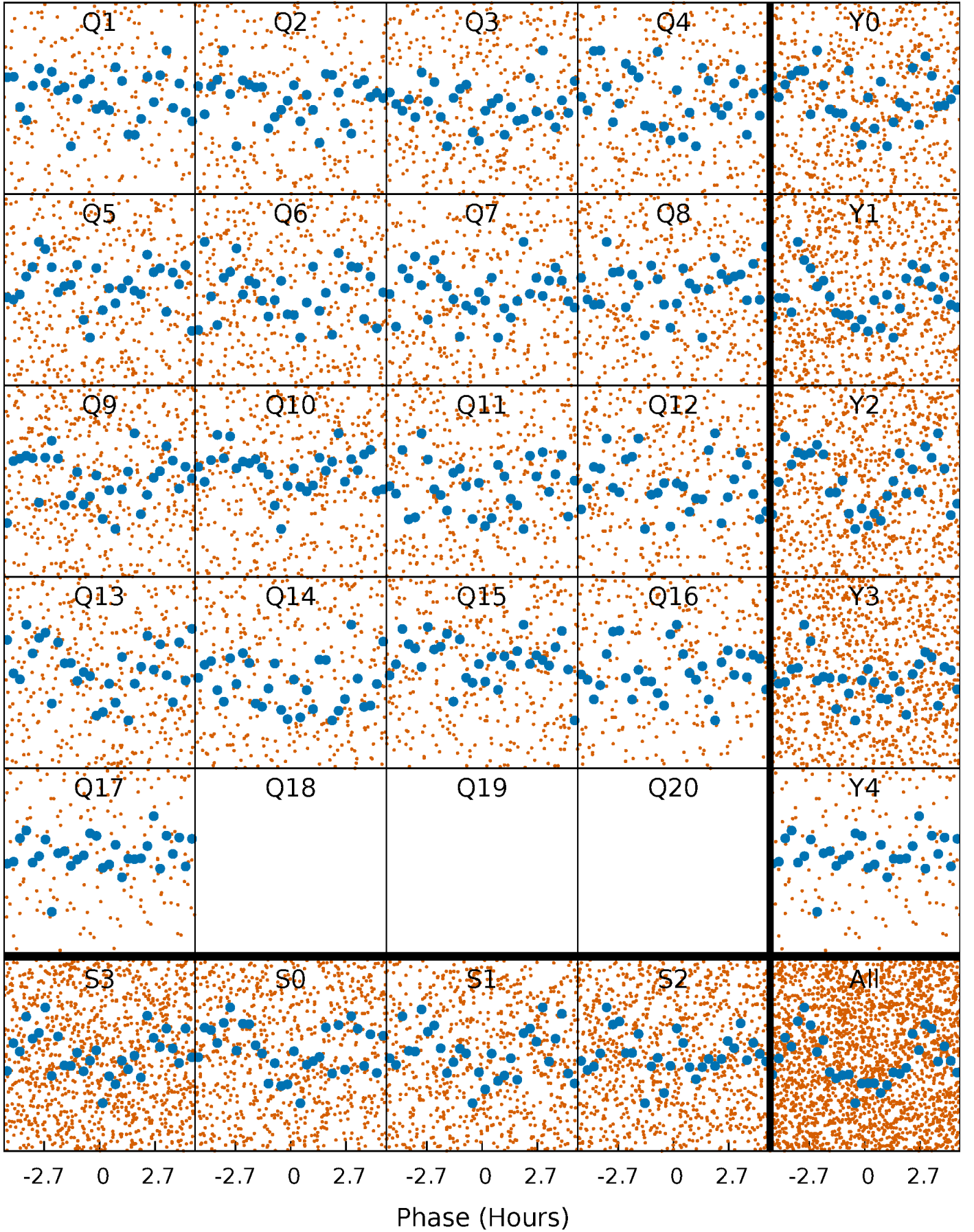


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



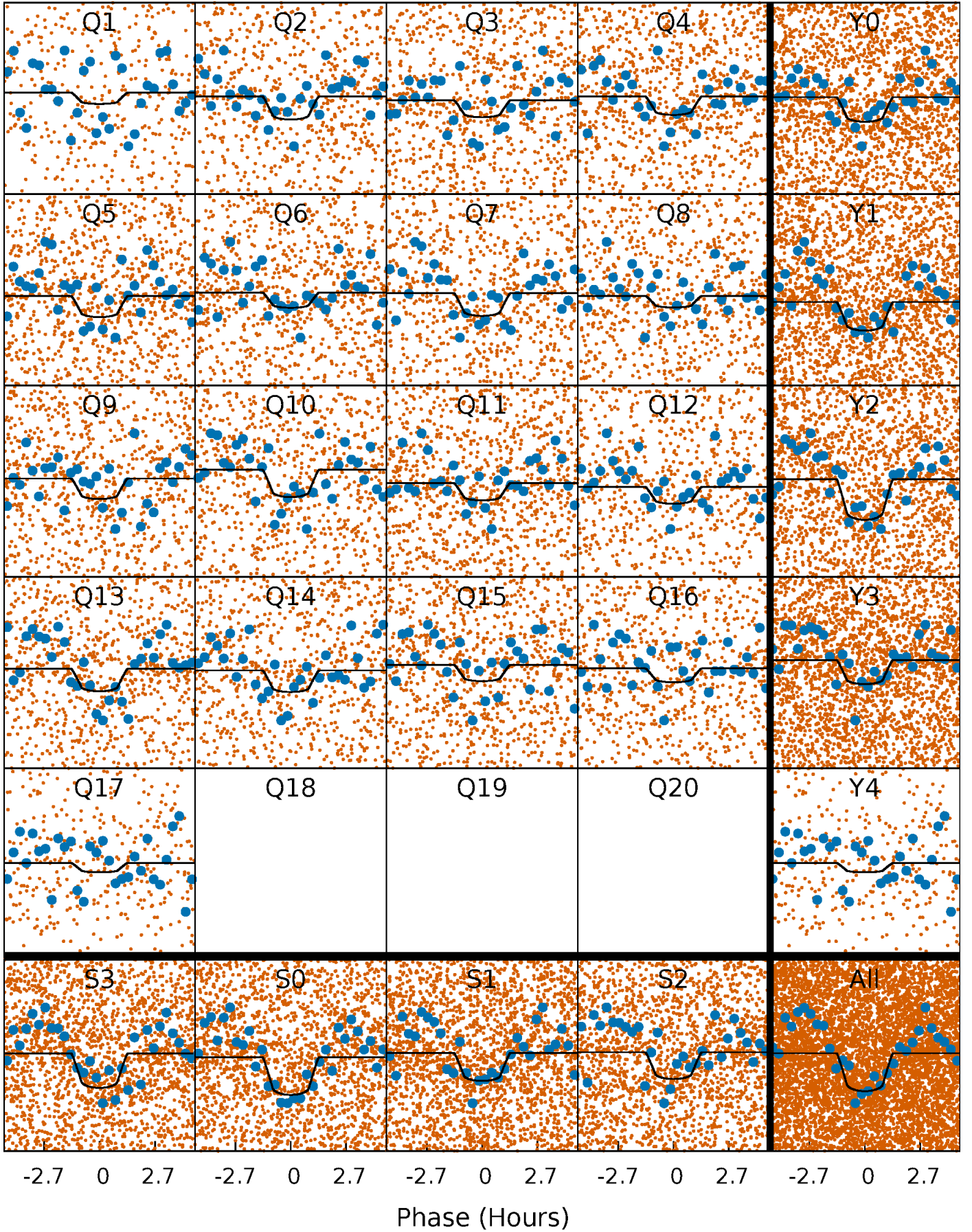
PDC Quarter-Phased Transit Curves

TCE 001162150-01 P= 1.130556 Days $T_0=131.639315$ (BKJD)



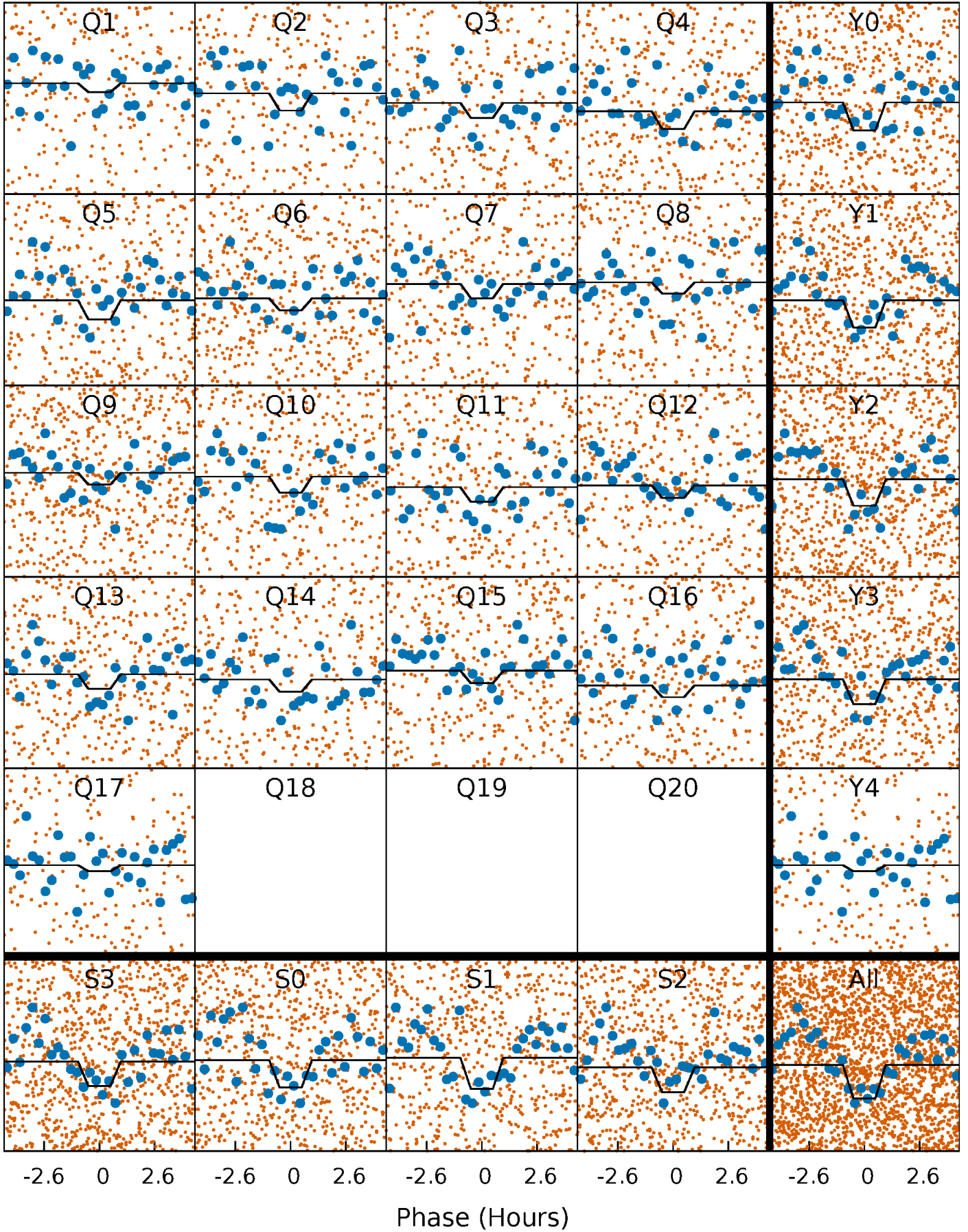
DV Quarter-Phased Transit Curves

TCE 001162150-01 P= 1.130556 Days $T_0=131.639315$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

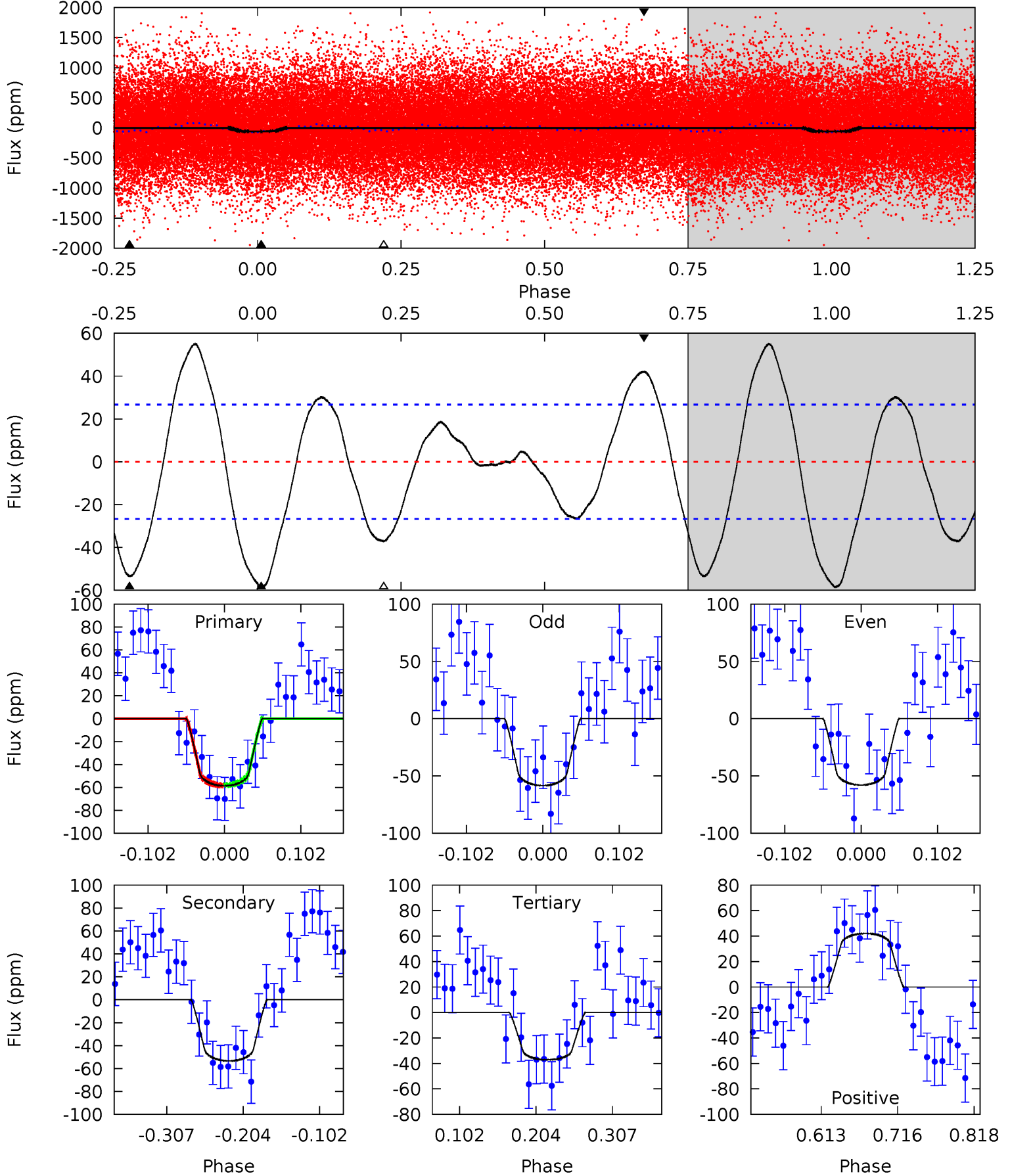
TCE 001162150-01 P= 1.130561 Days $T_0=131.638386$ (BKJD)



DV Model-Shift Uniqueness Test

001162150-01, P = 1.130556 Days, E = 130.508759 Days

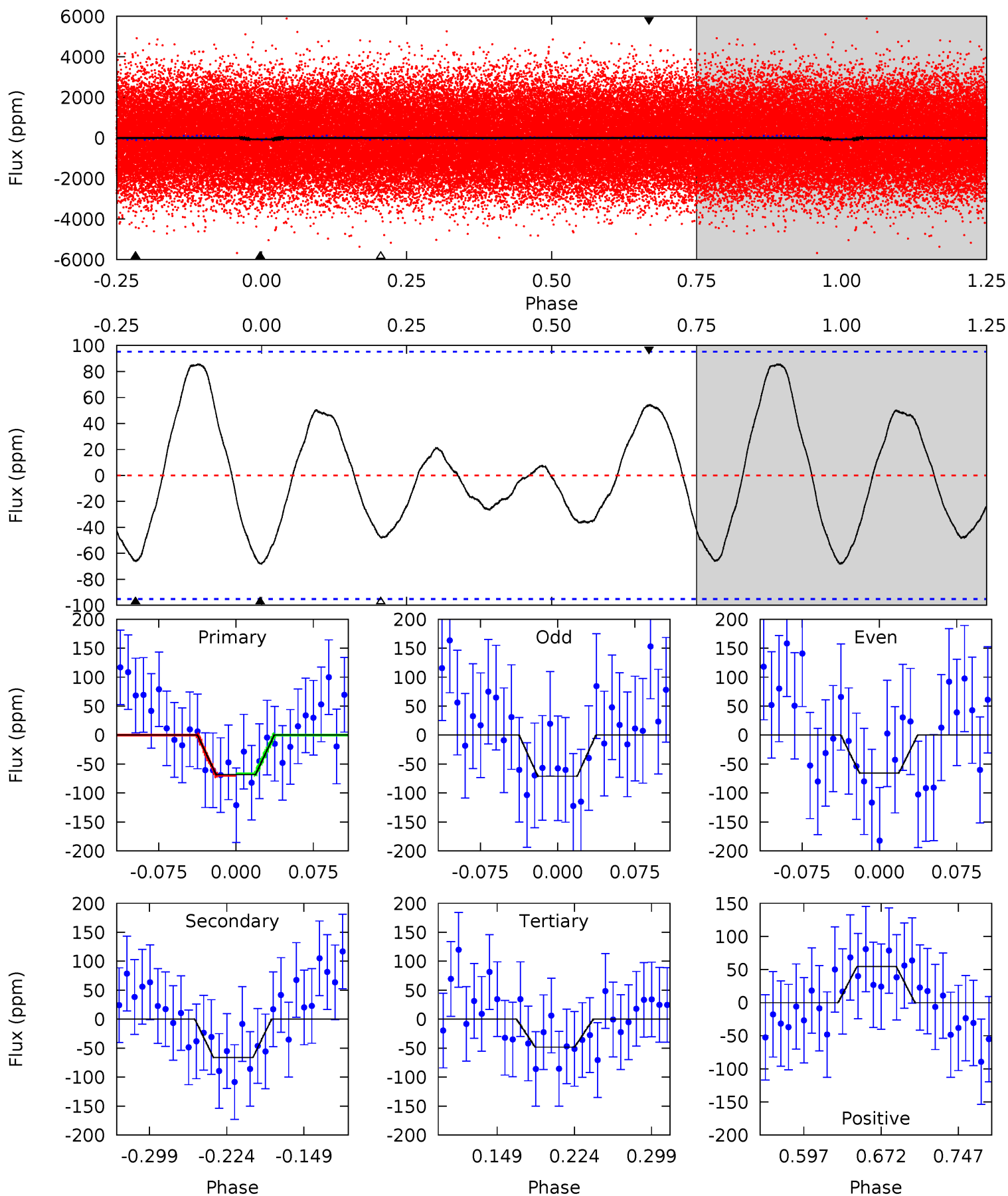
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.0	9.13	6.36	7.20	4.56	1.63	3.85	3.67	2.83	2.78	1.94	0.04	0.99	0.48	0.03



Alt Model-Shift Uniqueness Test

001162150-01, P = 1.130561 Days, E = 130.507825 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.32	3.22	2.34	2.64	4.63	1.78	1.68	0.97	0.67	0.88	0.57	0.14	0.99	0.56	0.07



Stellar Parameters For KIC 001162150

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7090^{+198}_{-297}	$3.489^{+0.612}_{-0.068}$	$0.020^{+0.250}_{-0.300}$	$4.311^{+0.282}_{-2.535}$	$2.087^{+0.114}_{-0.646}$	$0.037^{+0.308}_{-0.008}$
	+3%/-4%	+18%/-2%	+1250%/-1500%	+7%/-59%	+5%/-31%	+841%/-22%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 001162150-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-53 ± 6	$3.48^{+2.25}_{-1.81}$	5341^{+330}_{-828}	6059^{+3214}_{-1455}	$1.769^{+5.421}_{-1.144}$
Alt.	-66 ± 21	$3.50^{+2.26}_{-1.86}$	5325^{+341}_{-810}	6448^{+3634}_{-1634}	$2.094^{+6.970}_{-1.373}$

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 $A_{obs} \gg 1.0$

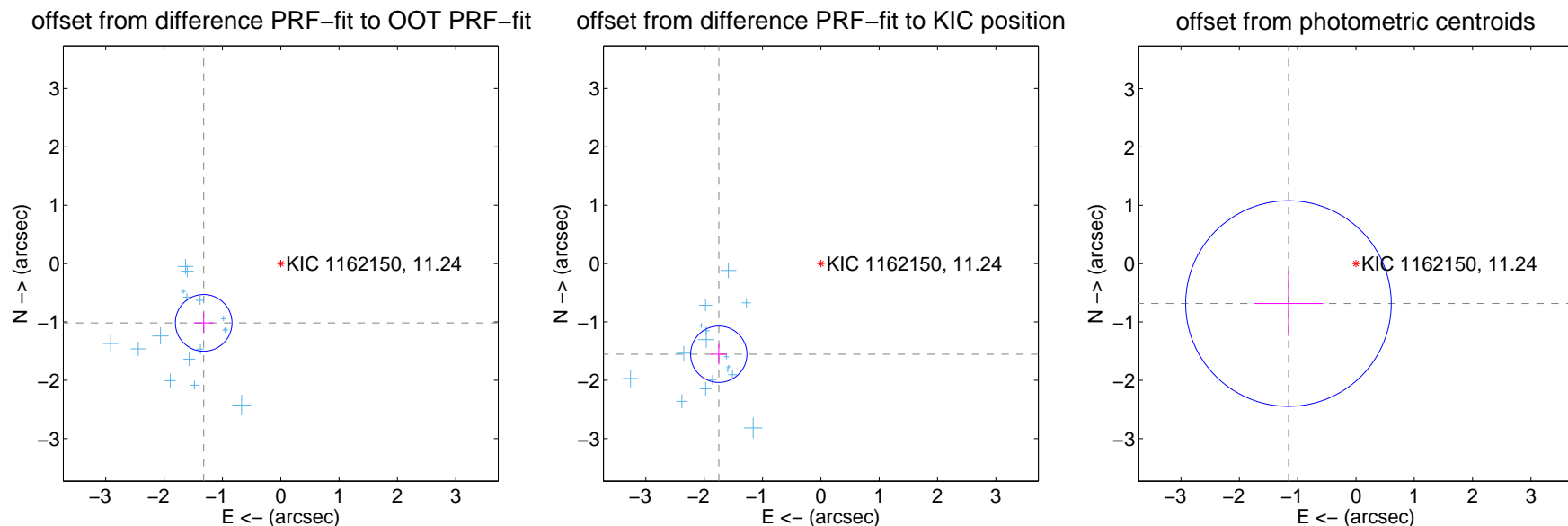
DV Centroid Data

Supplemental centroid analysis for 001162150-01. **Kepler magnitude: 11.24**. Transit SNR 9.59

There are 16 quarters with good PRF difference image offsets

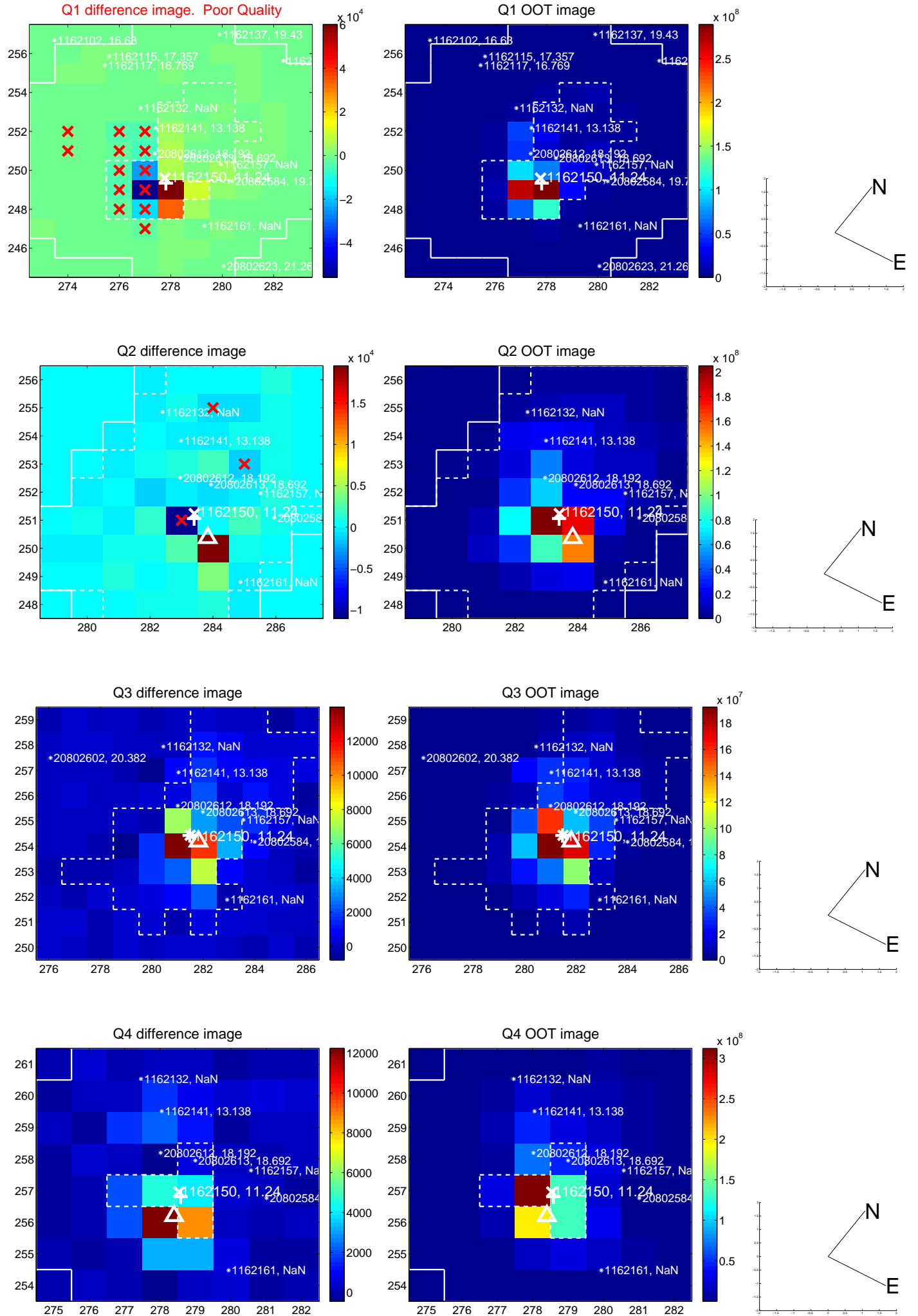
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.667 ± 0.162	10.30	1.321 ± 0.164	-1.017 ± 0.174
PRF-fit source offset from KIC position	2.340 ± 0.161	14.54	1.750 ± 0.137	-1.554 ± 0.176
photometric centroid source offset	1.34 ± 0.59	2.29	1.16 ± 0.60	-0.68 ± 0.56

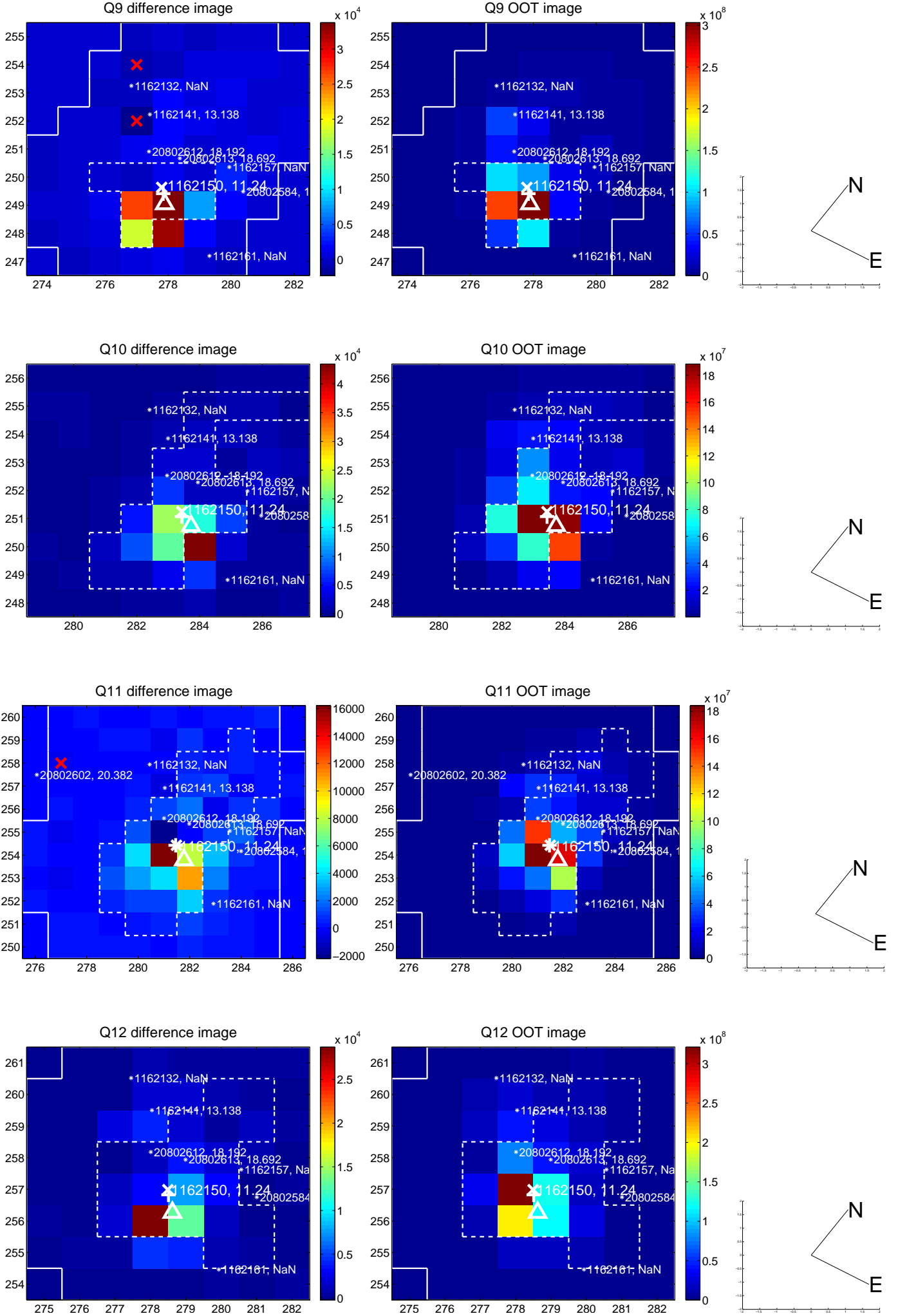


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

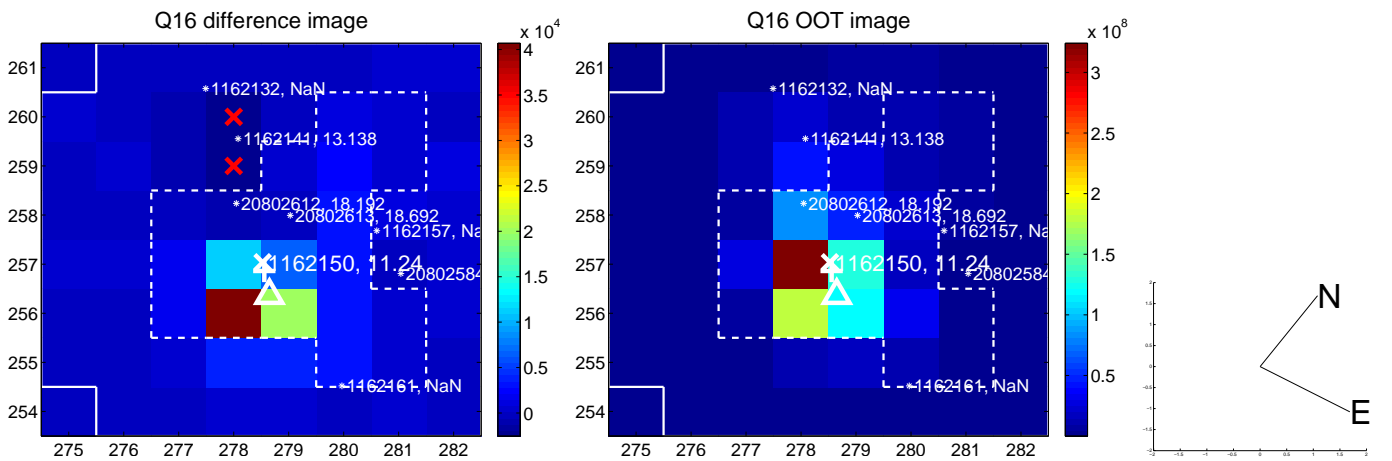
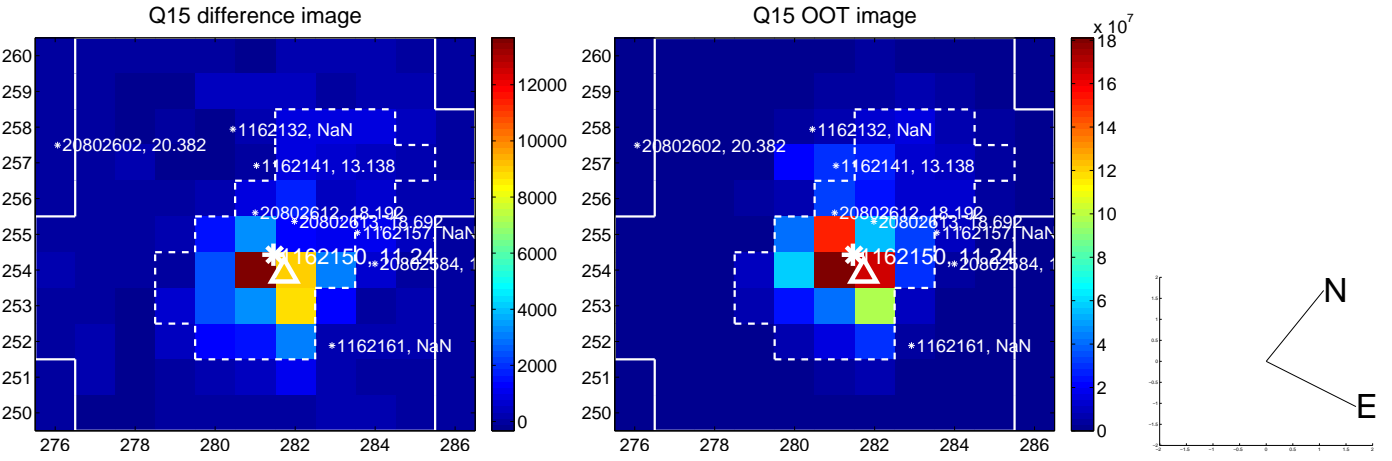
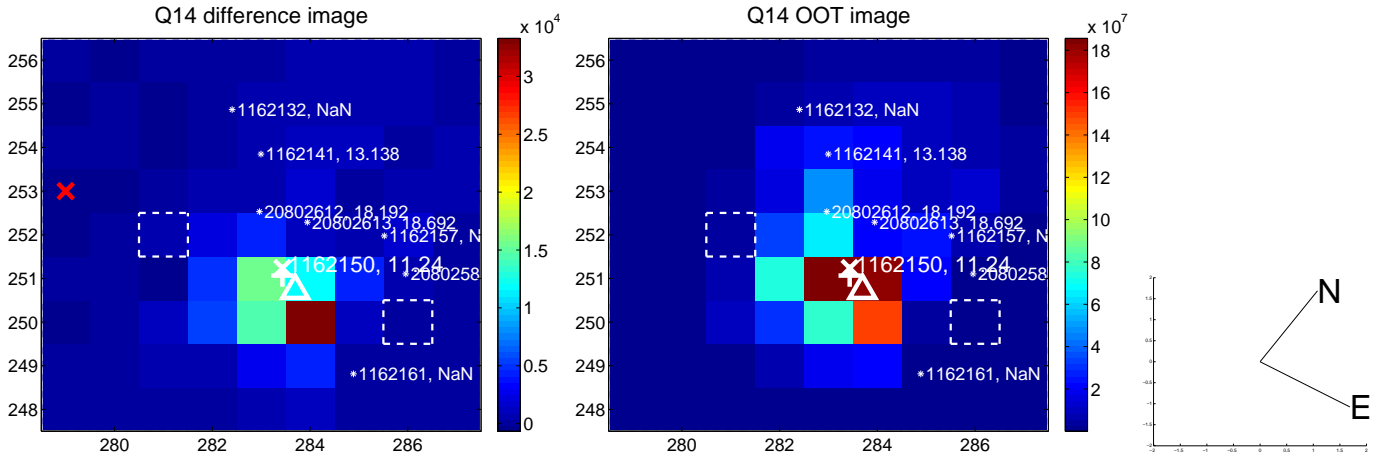
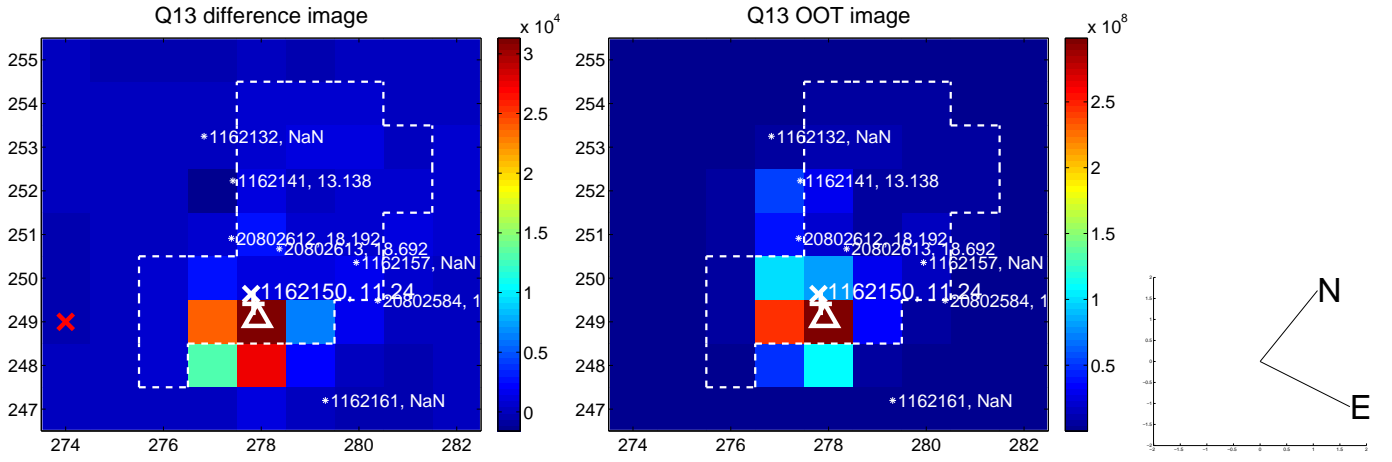
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



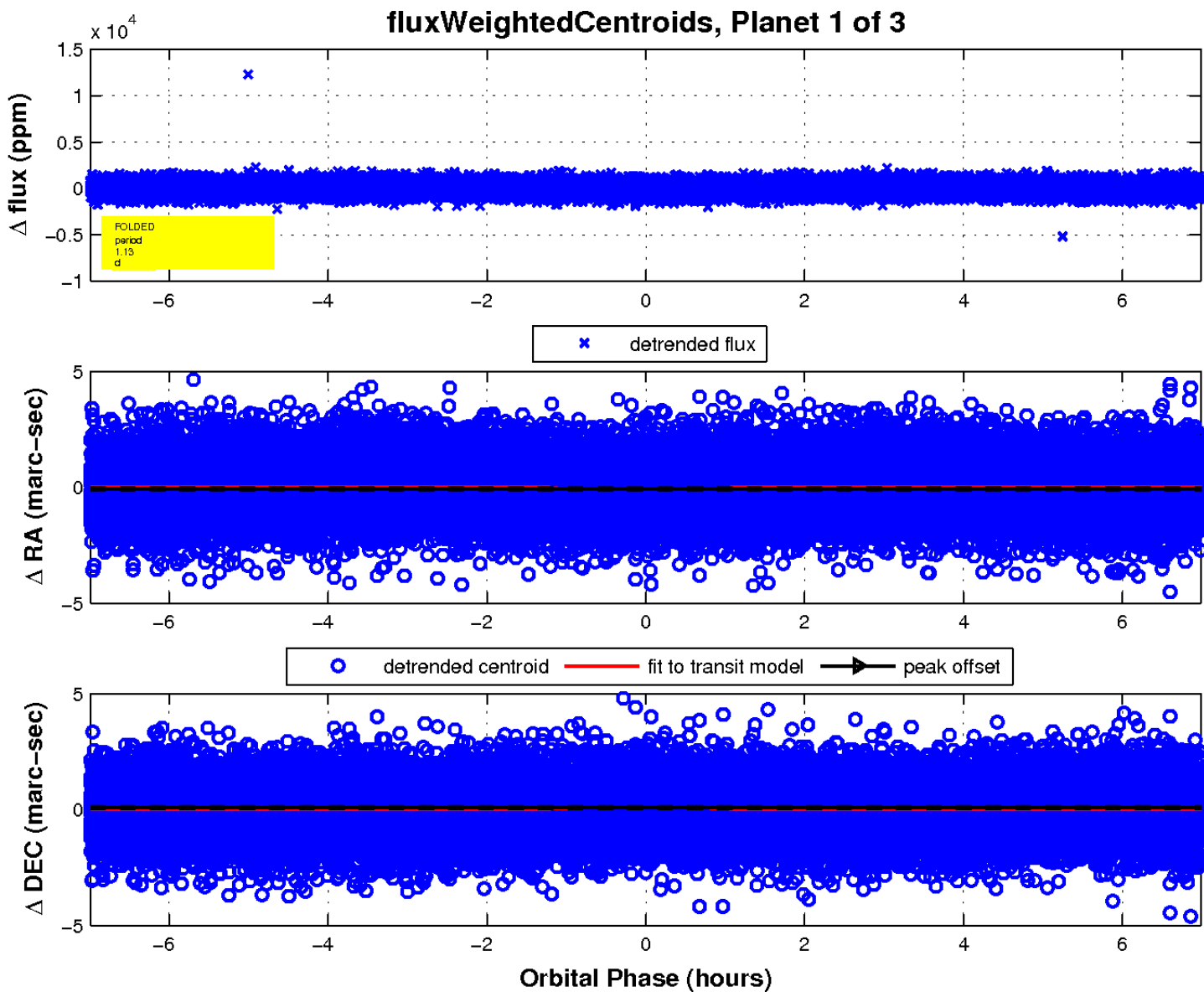
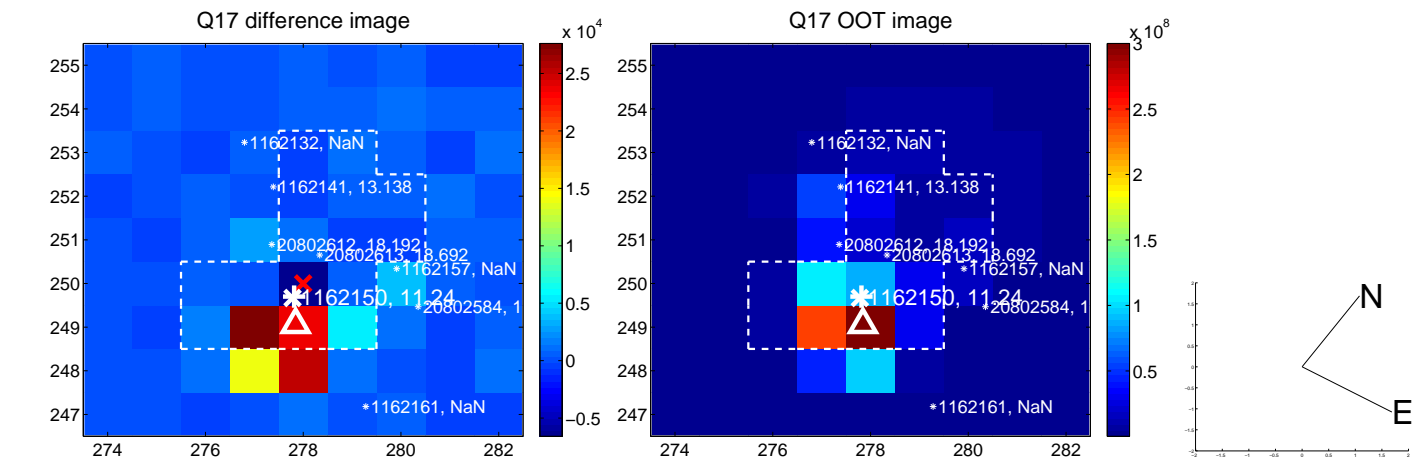
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



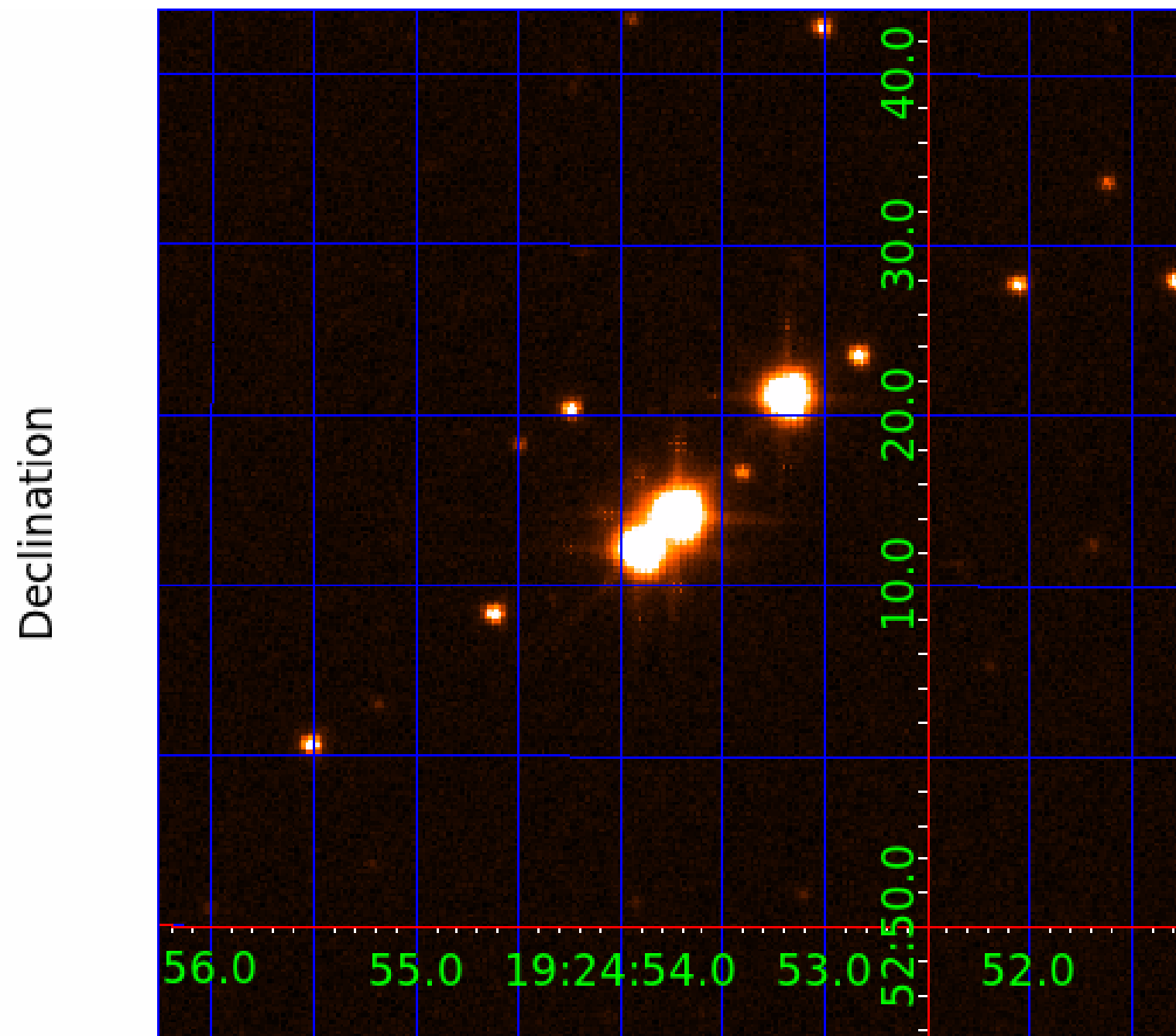
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 001162150

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})
001162150-01	OBS	No	1.130556	131.639315	64.0	2.329	9.4	9.6	4.31	7090	4.00	57035.08
001162150-02	OBS	No	0.710008	131.747505	40.3	1.924	8.5	6.0	4.31	7090	3.16	0.00
001162150-03	OBS	No	0.710011	131.995345	55.9	2.919	7.9	9.4	4.31	7090	3.74	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
001162150-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_SATURATED
001162150-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_SATURATED
001162150-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED

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

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

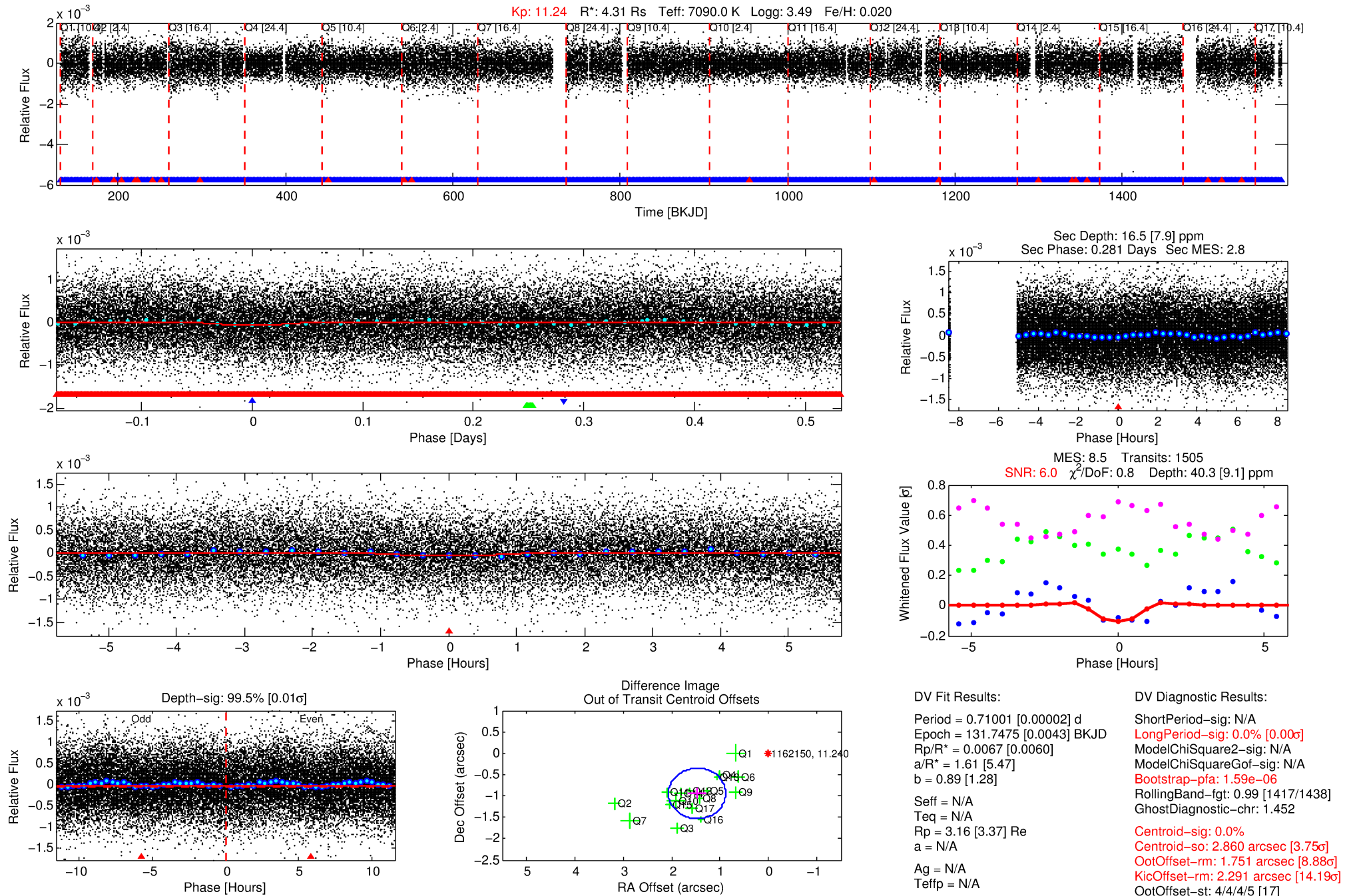
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 001162150-02

No Significant Match Found

DV One-Page Summary

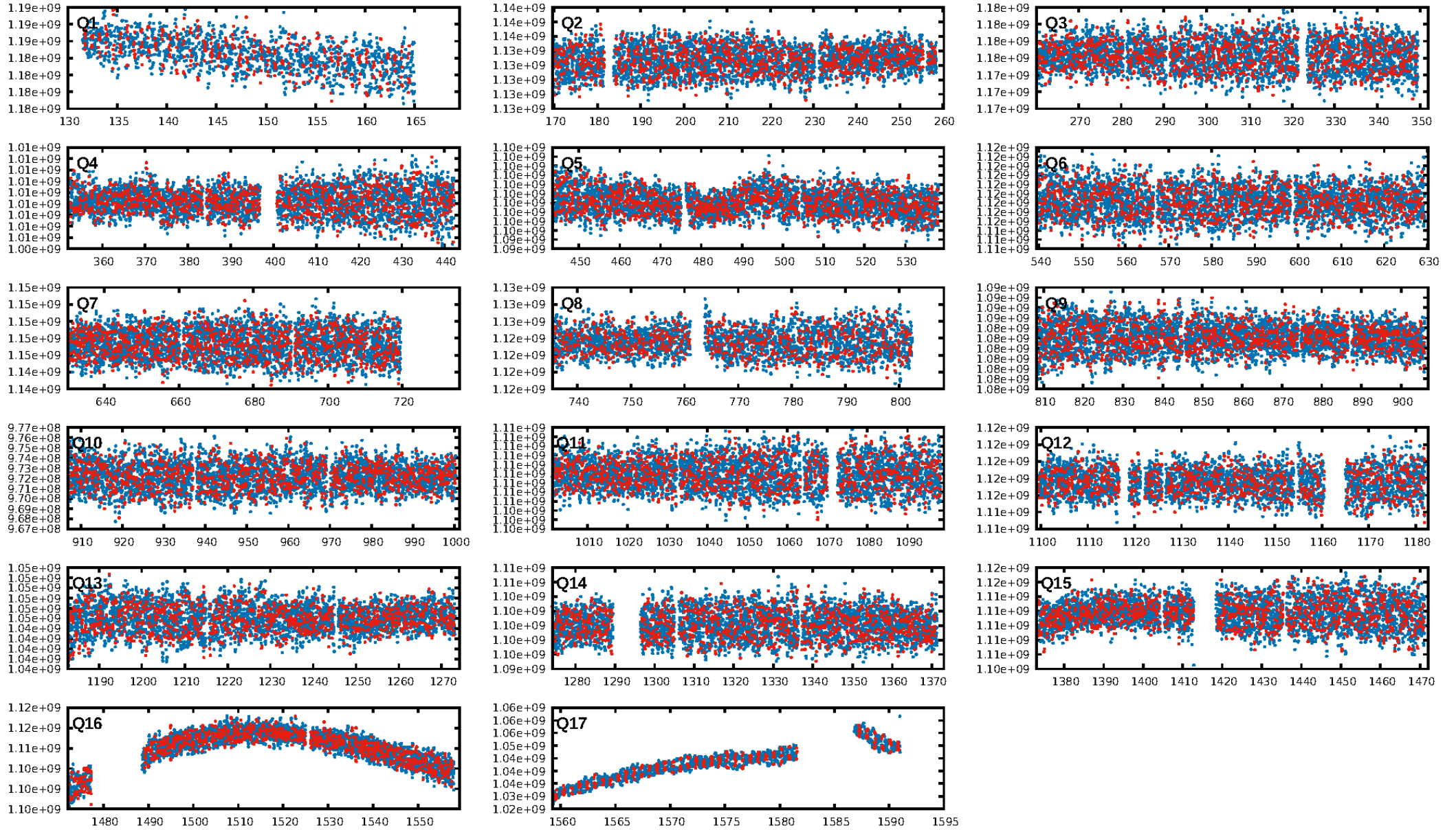
KIC: 1162150 Candidate: 2 of 3 Period: 0.710 d



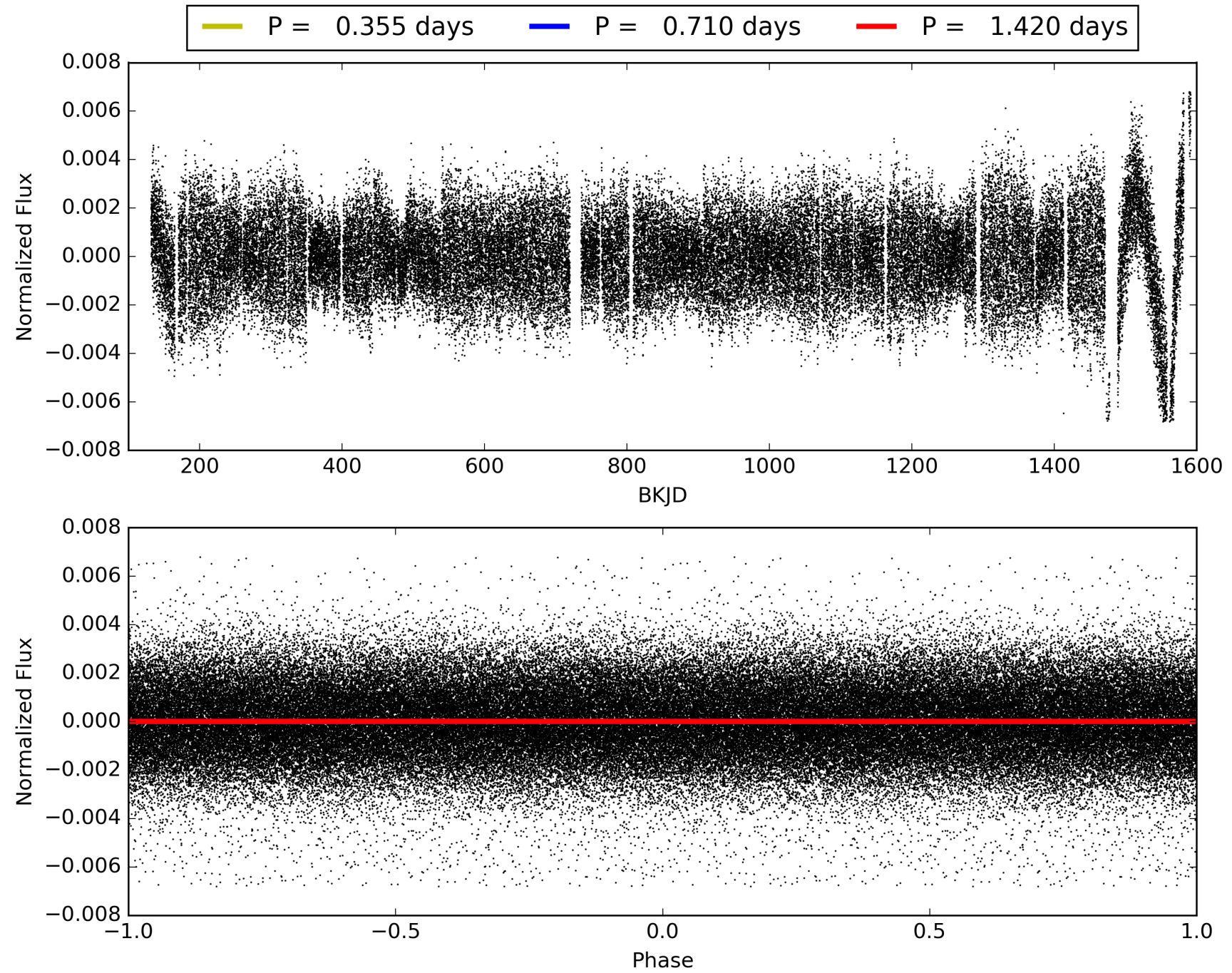
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 11:45:29 Z

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

TCE 001162150-02, PDC Light Curves

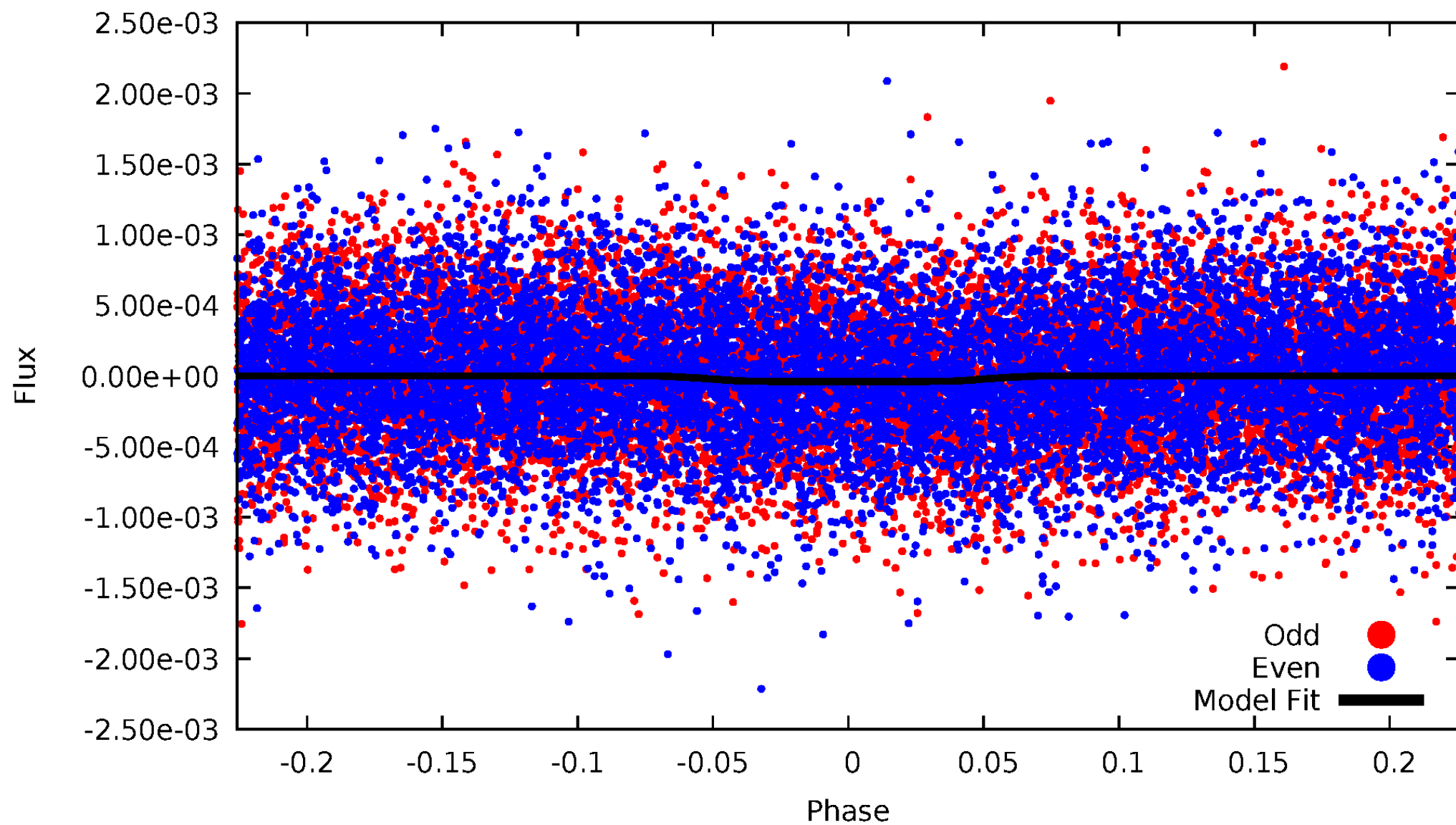


TCE 001162150-02



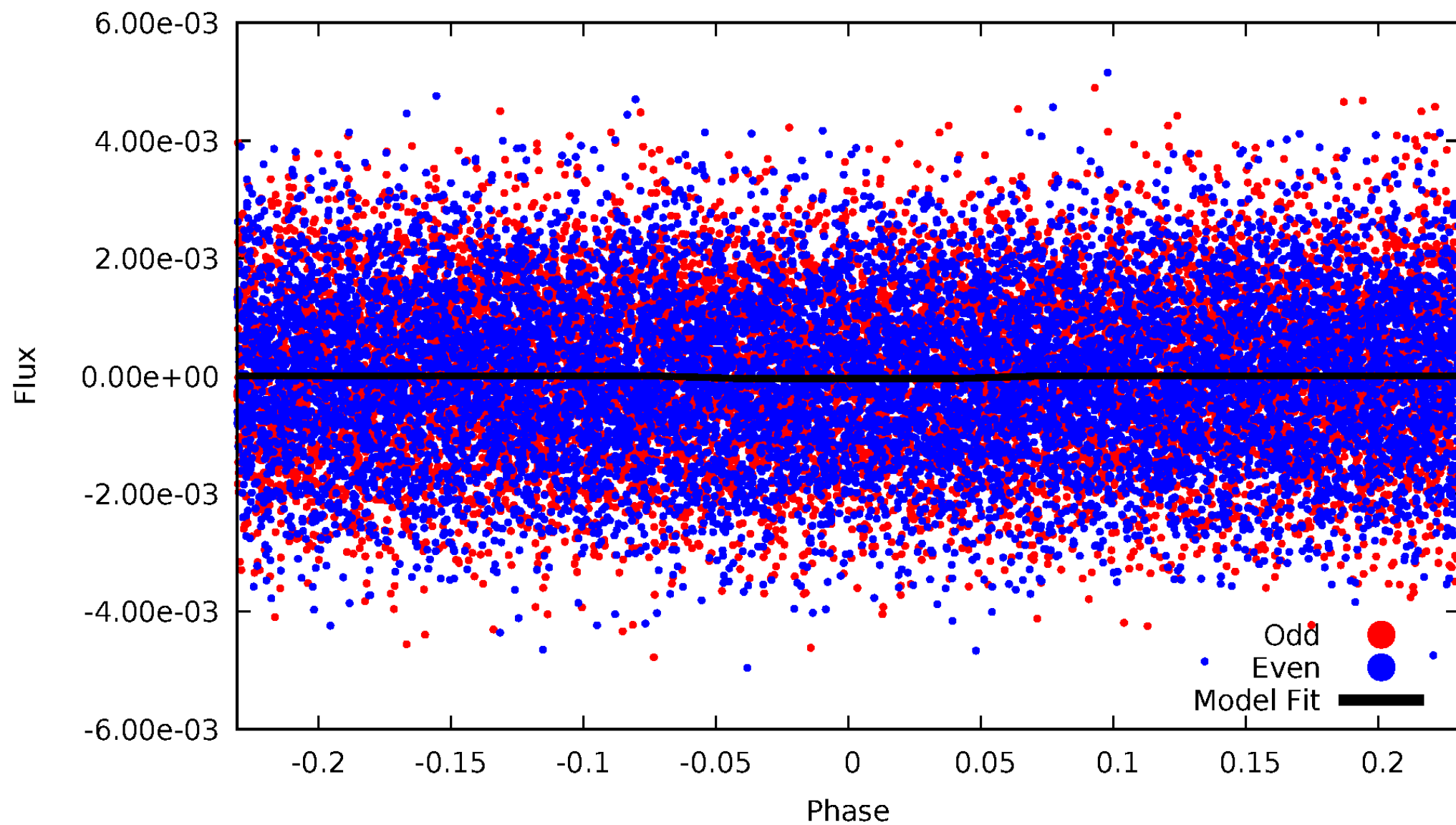
DV Odd/Even

TCE 001162150-02



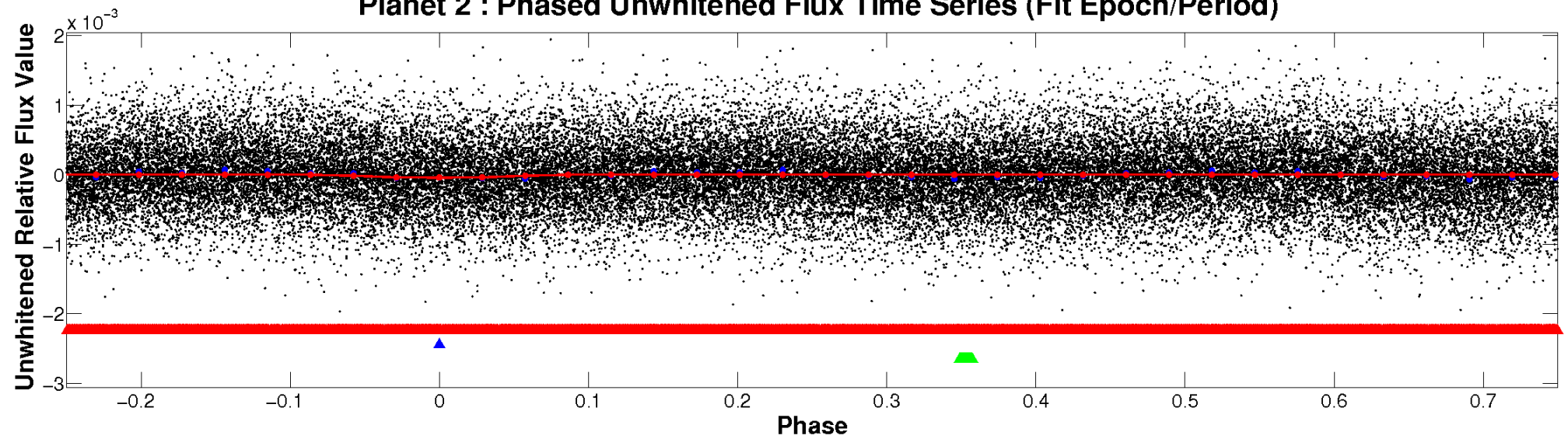
ALT Odd/Even

TCE 001162150-02

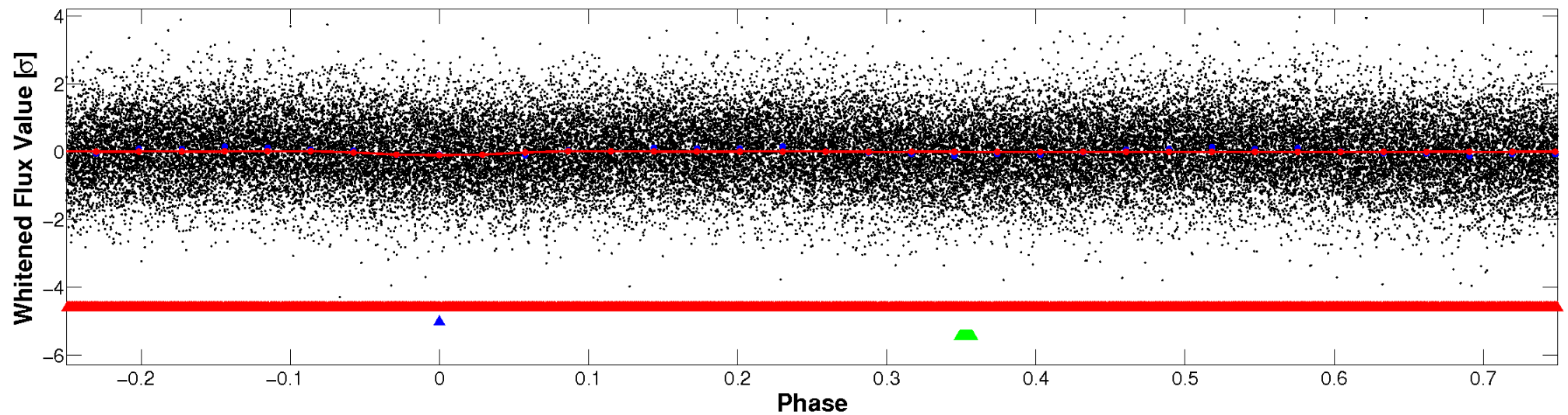


Non-Whitened Vs. Whitened Light Curve

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

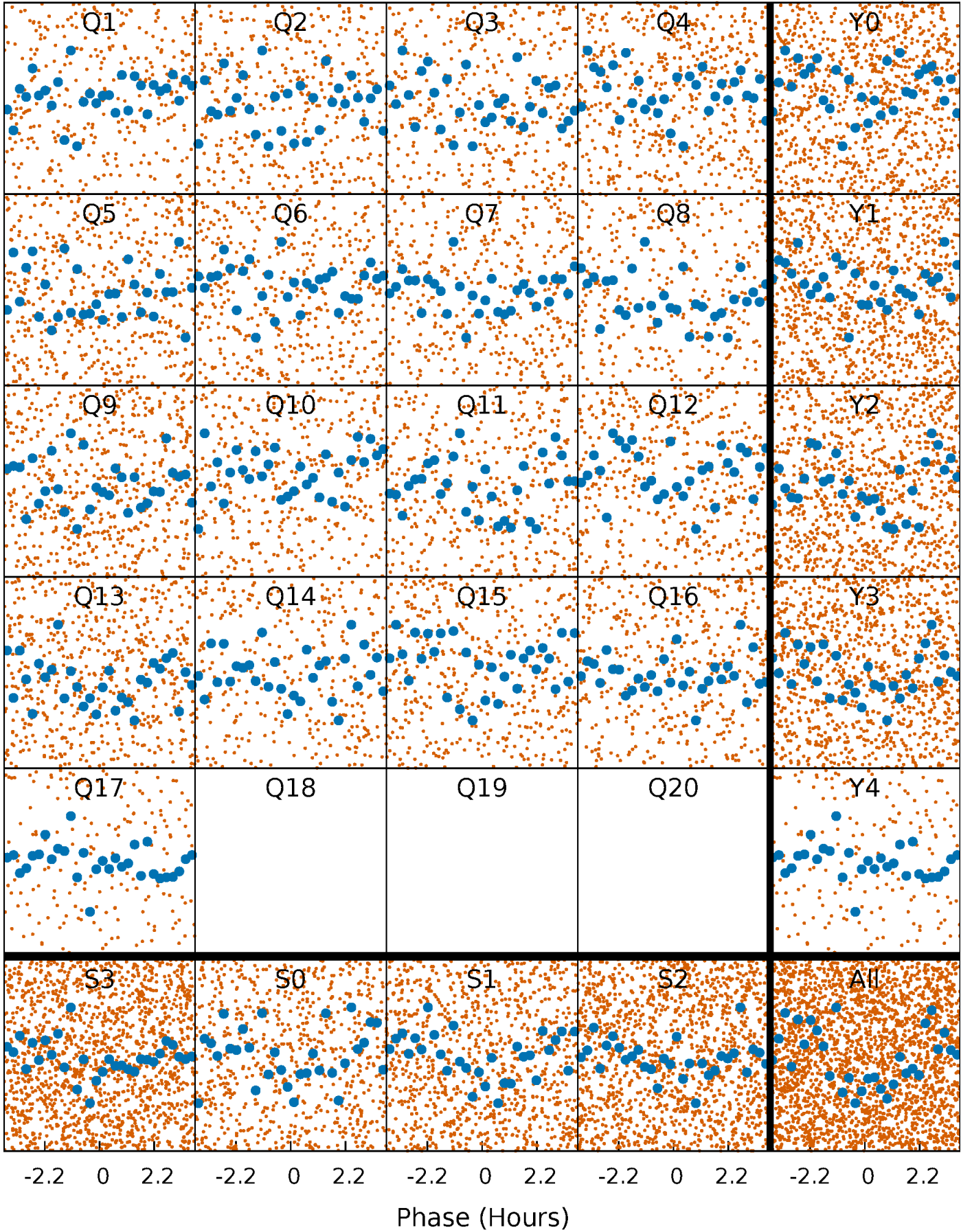


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



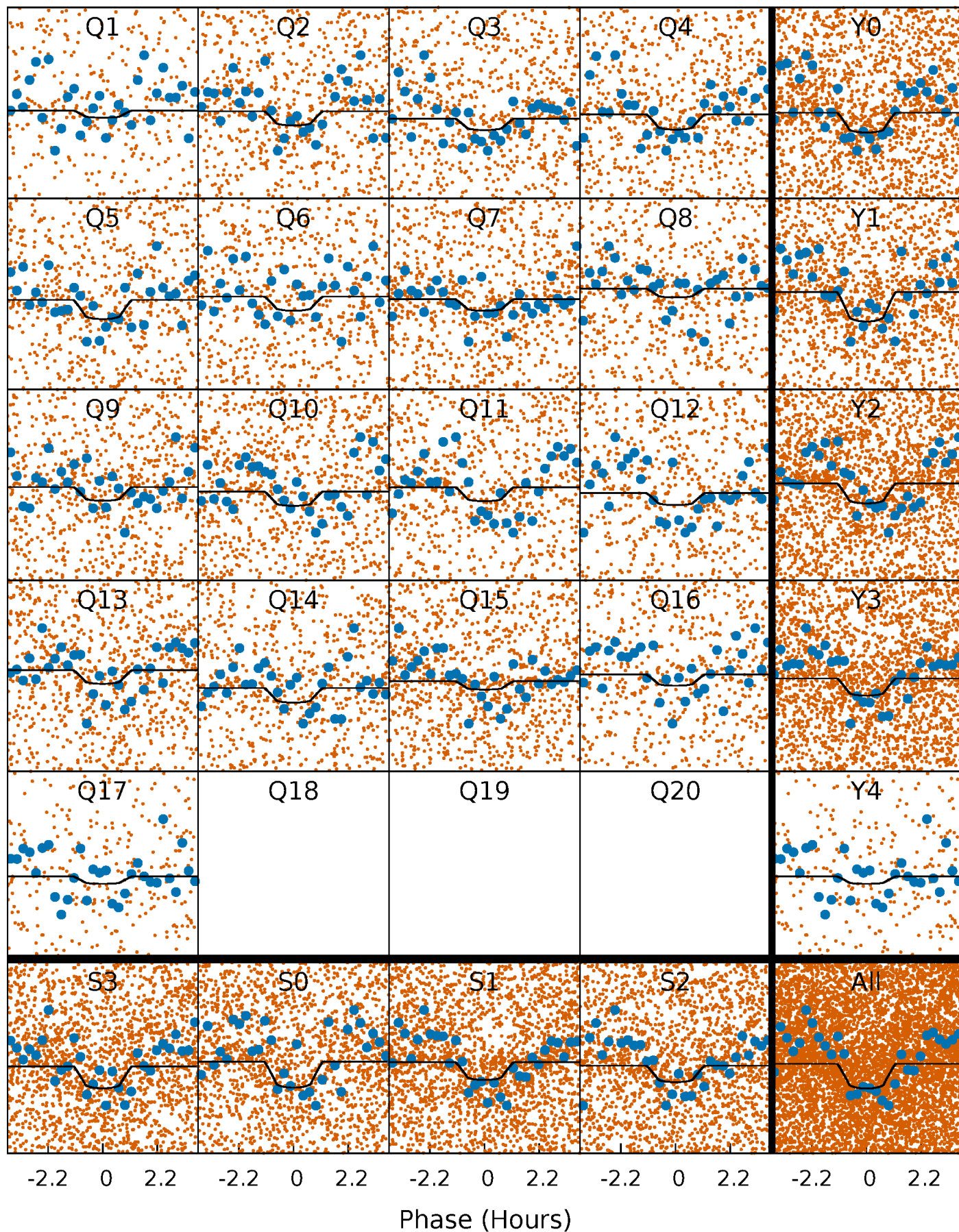
PDC Quarter-Phased Transit Curves

TCE 001162150-02 P= 0.710008 Days $T_0=131.747505$ (BKJD)



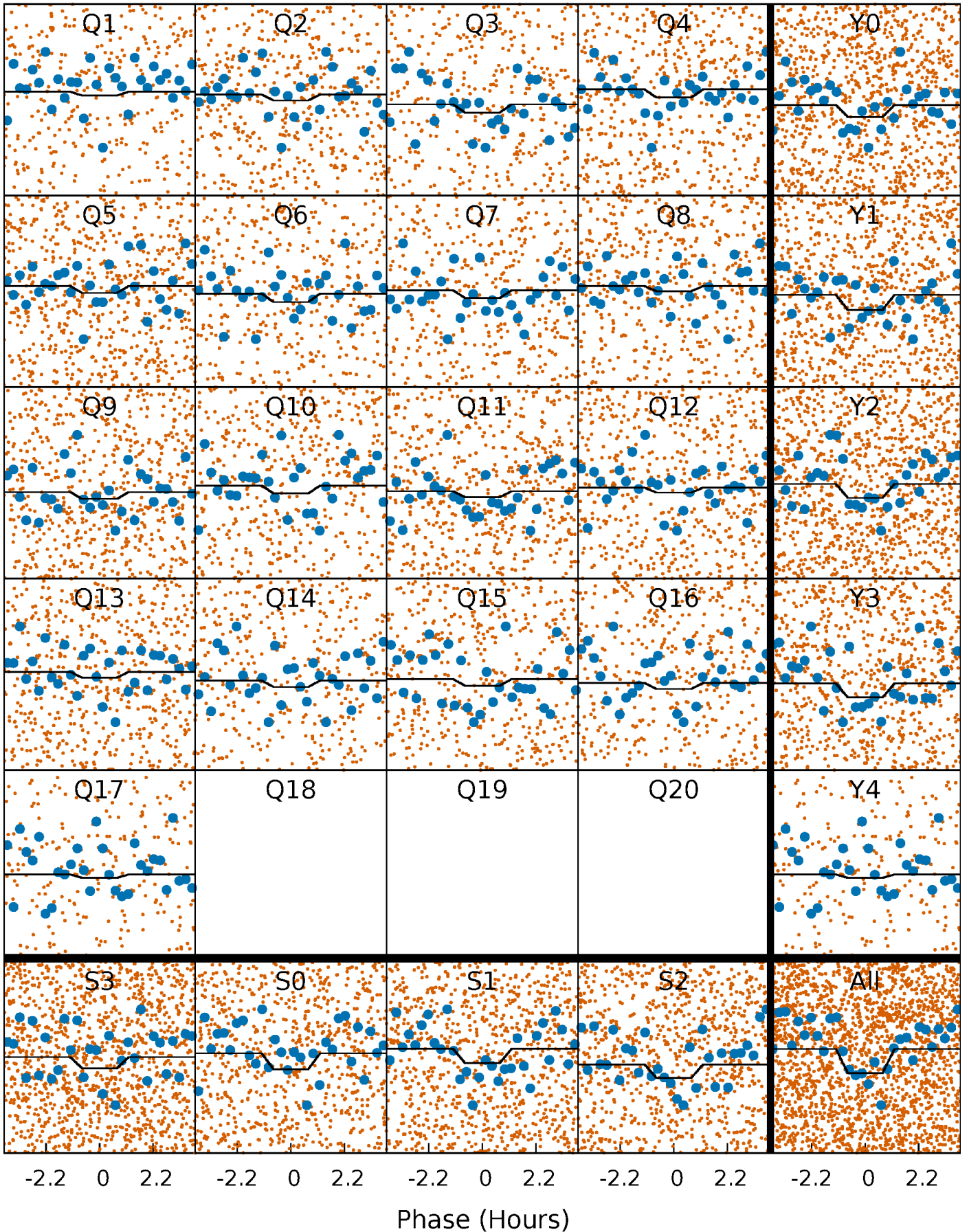
DV Quarter-Phased Transit Curves

TCE 001162150-02 P= 0.710008 Days $T_0=131.747505$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

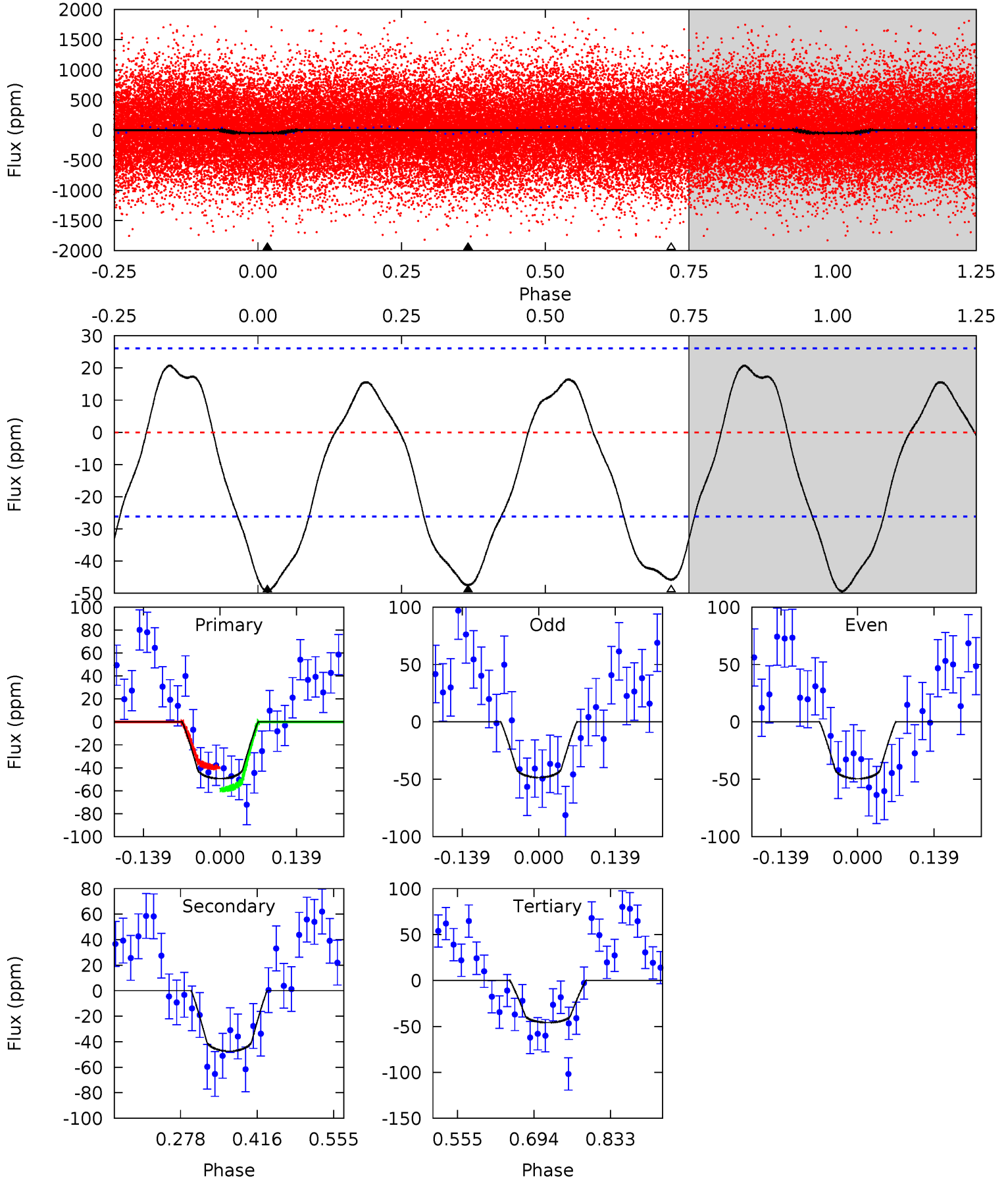
TCE 001162150-02 P= 0.710013 Days $T_0=131.746149$ (BKJD)



DV Model-Shift Uniqueness Test

001162150-02, P = 0.710008 Days, E = 131.747505 Days

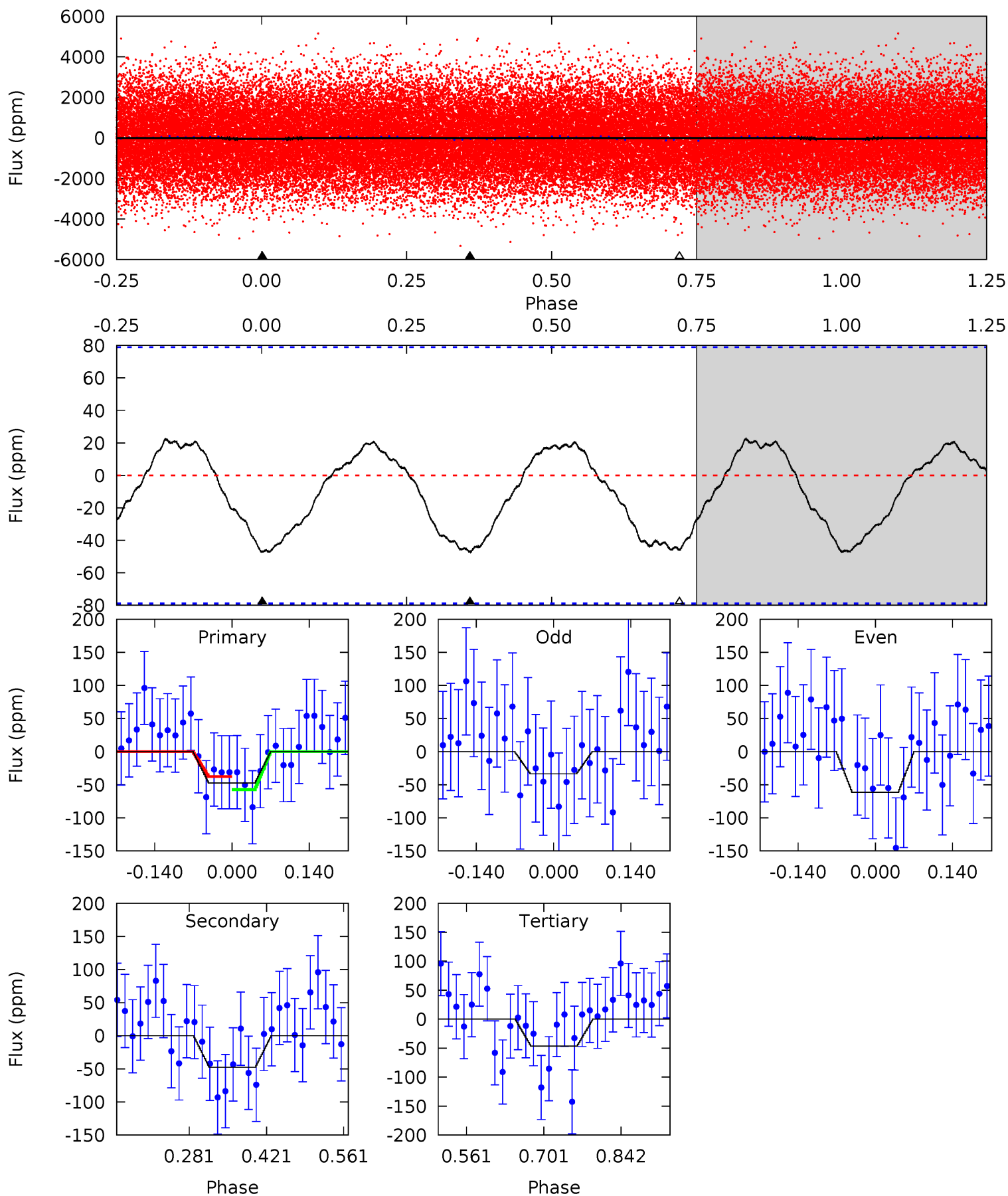
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.51	8.17	7.88	0	4.50	1.48	3.97	0.62	8.51	0.28	8.17	0.09	0.85	0.30	1.63



Alt Model-Shift Uniqueness Test

001162150-02, P = 0.710013 Days, E = 131.746149 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.70	2.71	2.64	0	4.49	1.47	1.35	0.06	2.70	0.07	2.71	0.79	0.81	0.32	0.56



Stellar Parameters For KIC 001162150

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7090^{+198}_{-297}	$3.489^{+0.612}_{-0.068}$	$0.020^{+0.250}_{-0.300}$	$4.311^{+0.282}_{-2.535}$	$2.087^{+0.114}_{-0.646}$	$0.037^{+0.308}_{-0.008}$
	+3%/-4%	+18%/-2%	+1250%/-1500%	+7%/-59%	+5%/-31%	+841%/-22%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 001162150-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-47 ± 6	$3.03^{+2.57}_{-1.86}$	6233^{+376}_{-874}	6128^{+5272}_{-2926}	$1.125^{+5.962}_{-0.802}$
Alt.	-48 ± 18	$2.98^{+2.60}_{-1.83}$	6229^{+387}_{-837}	6166^{+5753}_{-9155}	$1.087^{+5.668}_{-0.797}$

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 $A_{obs} \gg 1.0$

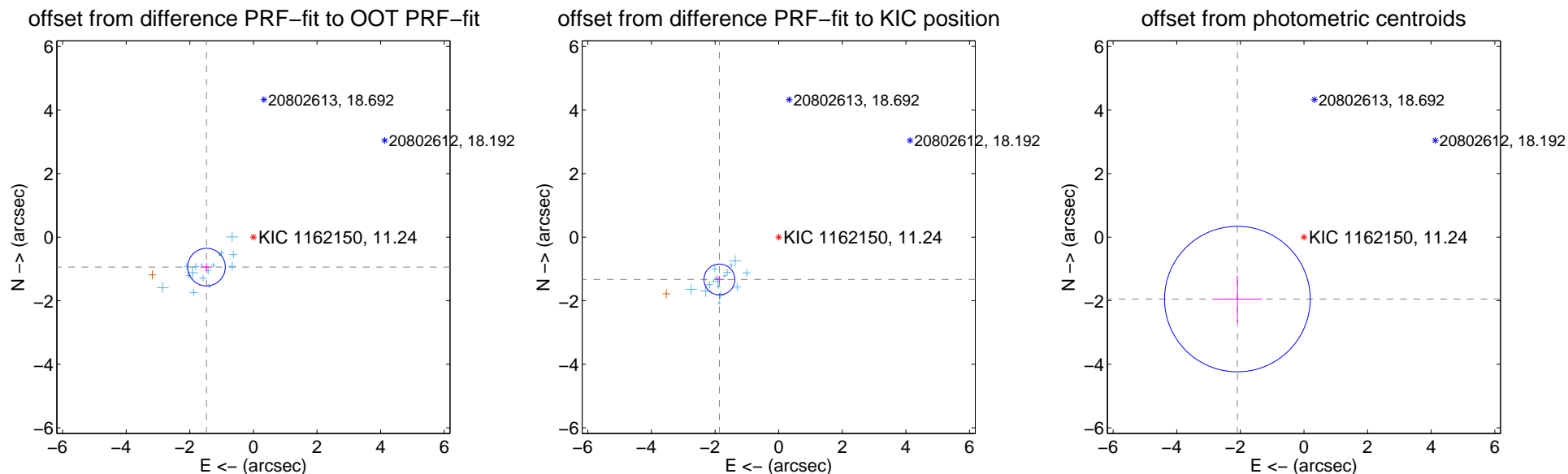
DV Centroid Data

Supplemental centroid analysis for 001162150-02. **Kepler magnitude: 11.24**. Transit SNR 6.02

There are 16 quarters with good PRF difference image offsets

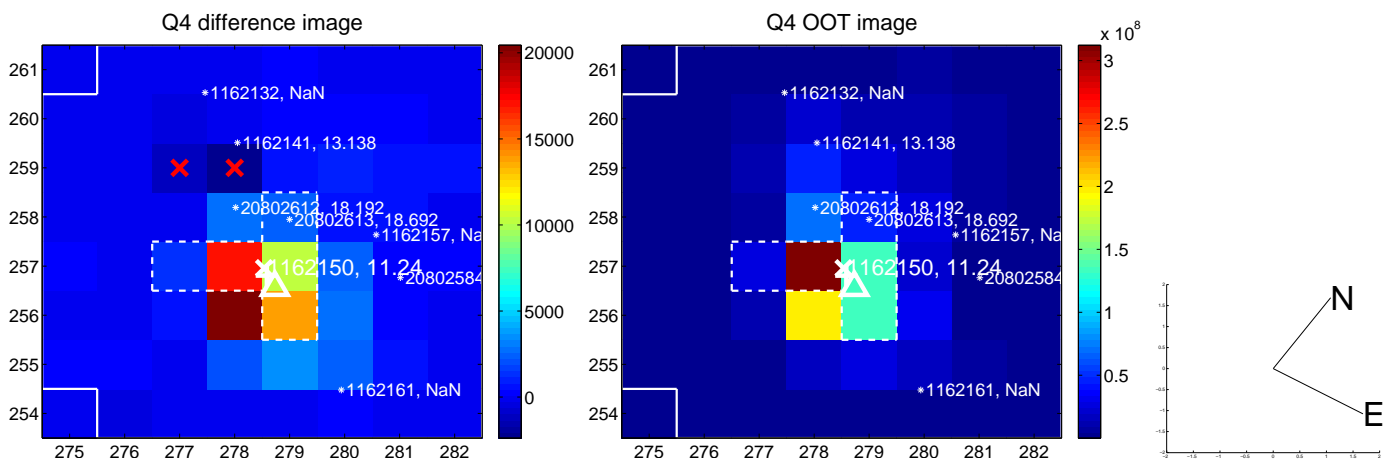
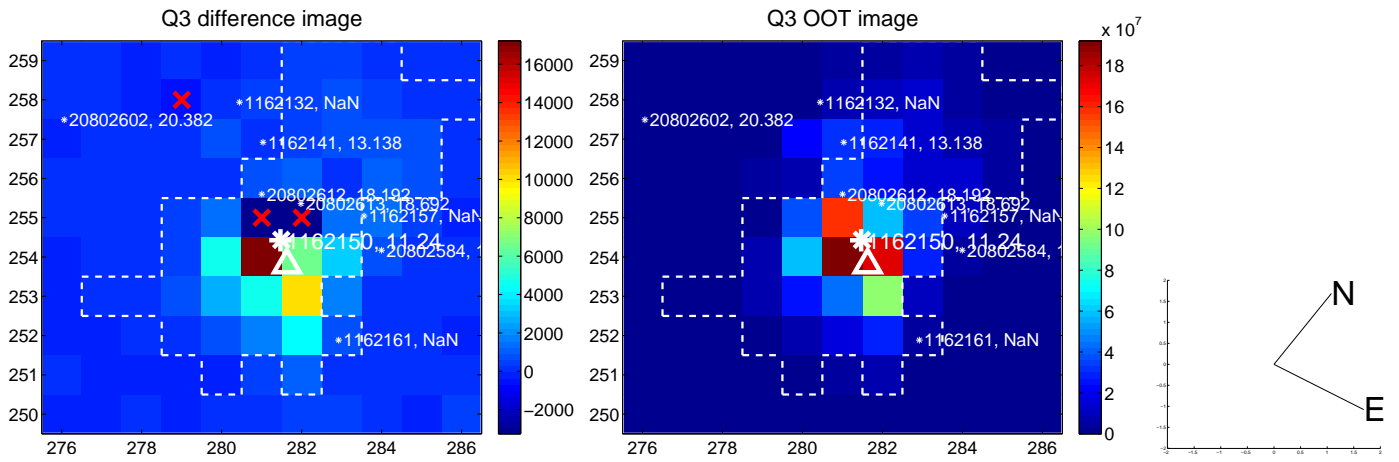
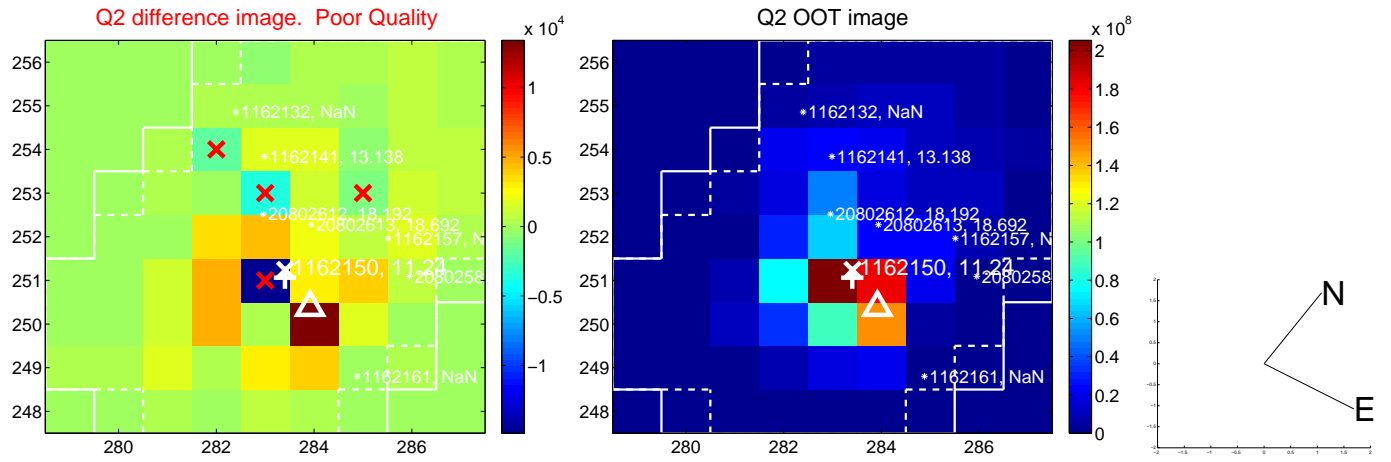
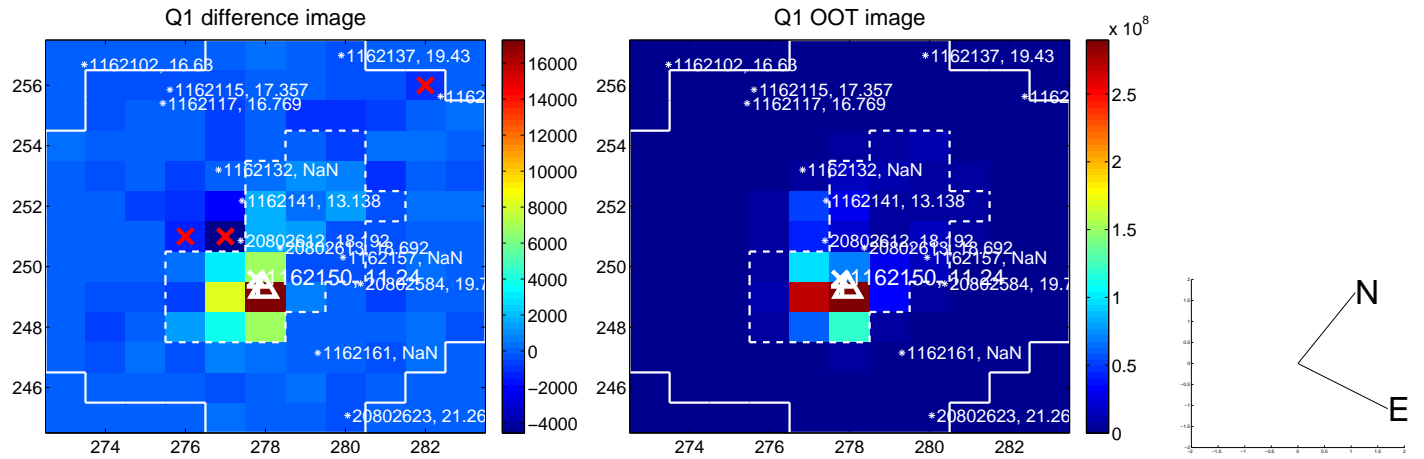
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.751 ± 0.197	8.88	1.476 ± 0.183	-0.942 ± 0.124
PRF-fit source offset from KIC position	2.291 ± 0.161	14.19	1.864 ± 0.149	-1.332 ± 0.114
photometric centroid source offset	2.86 ± 0.76	3.75	2.09 ± 0.78	-1.95 ± 0.74

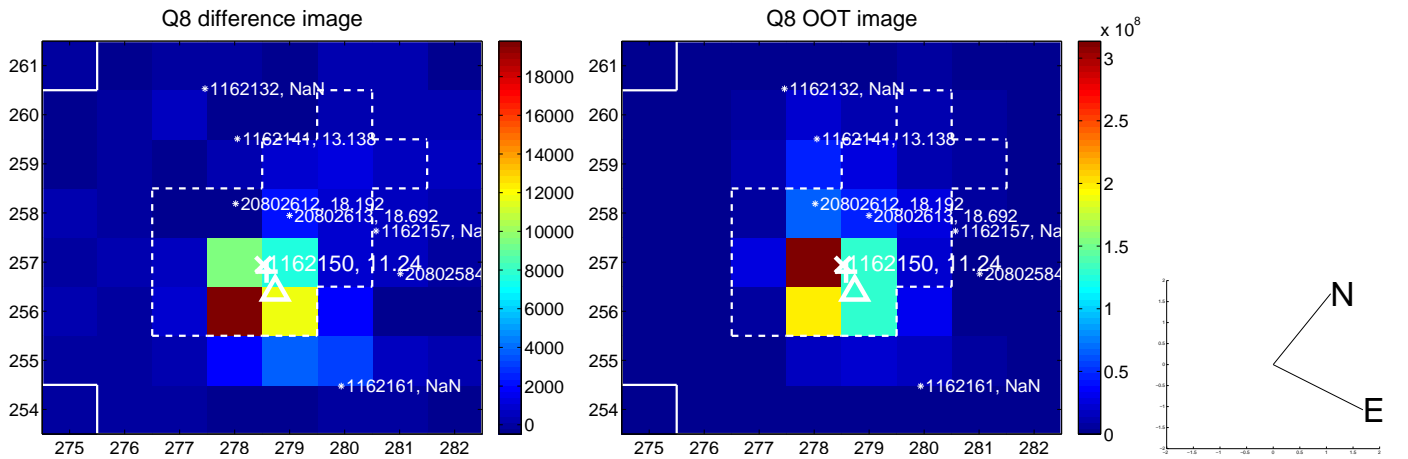
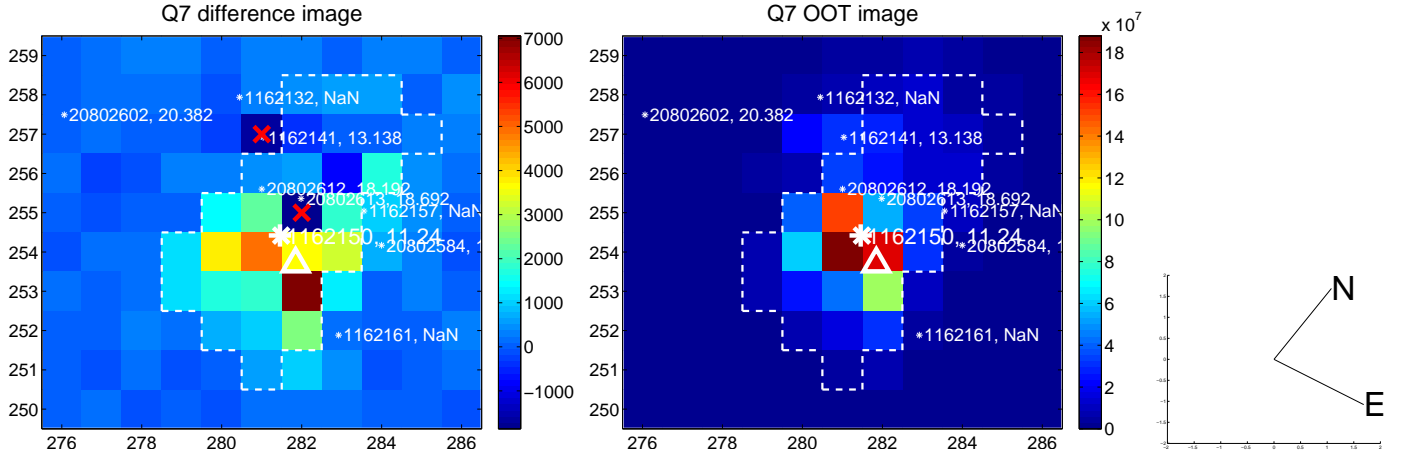
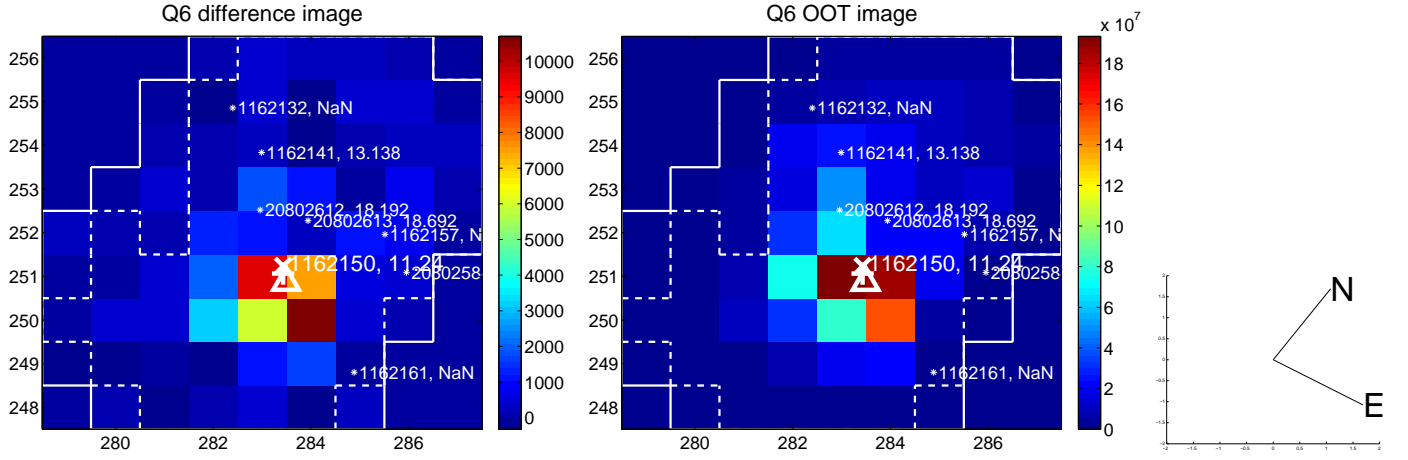
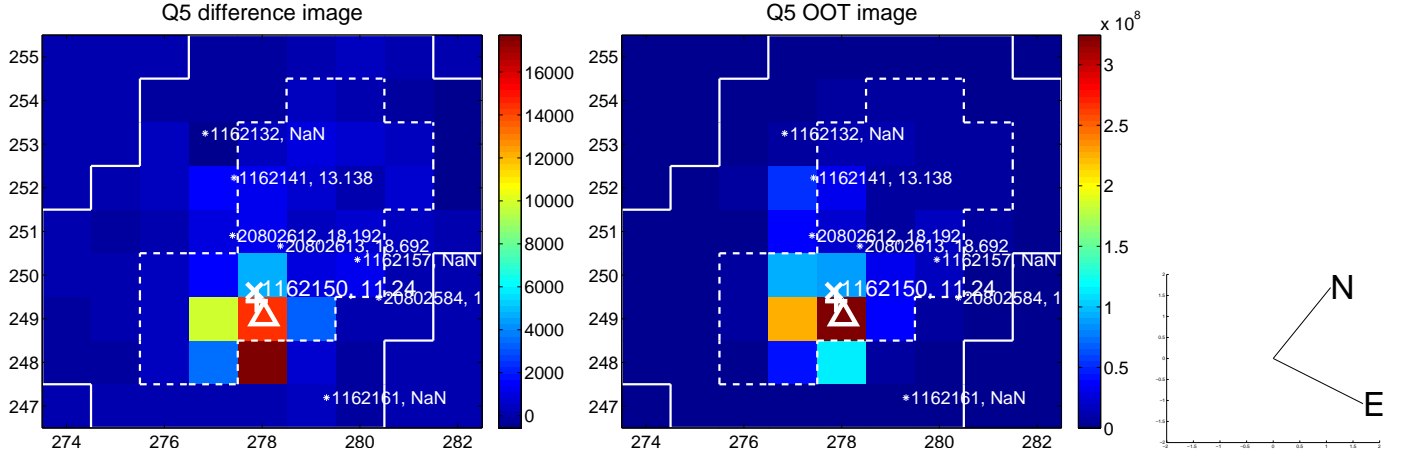


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

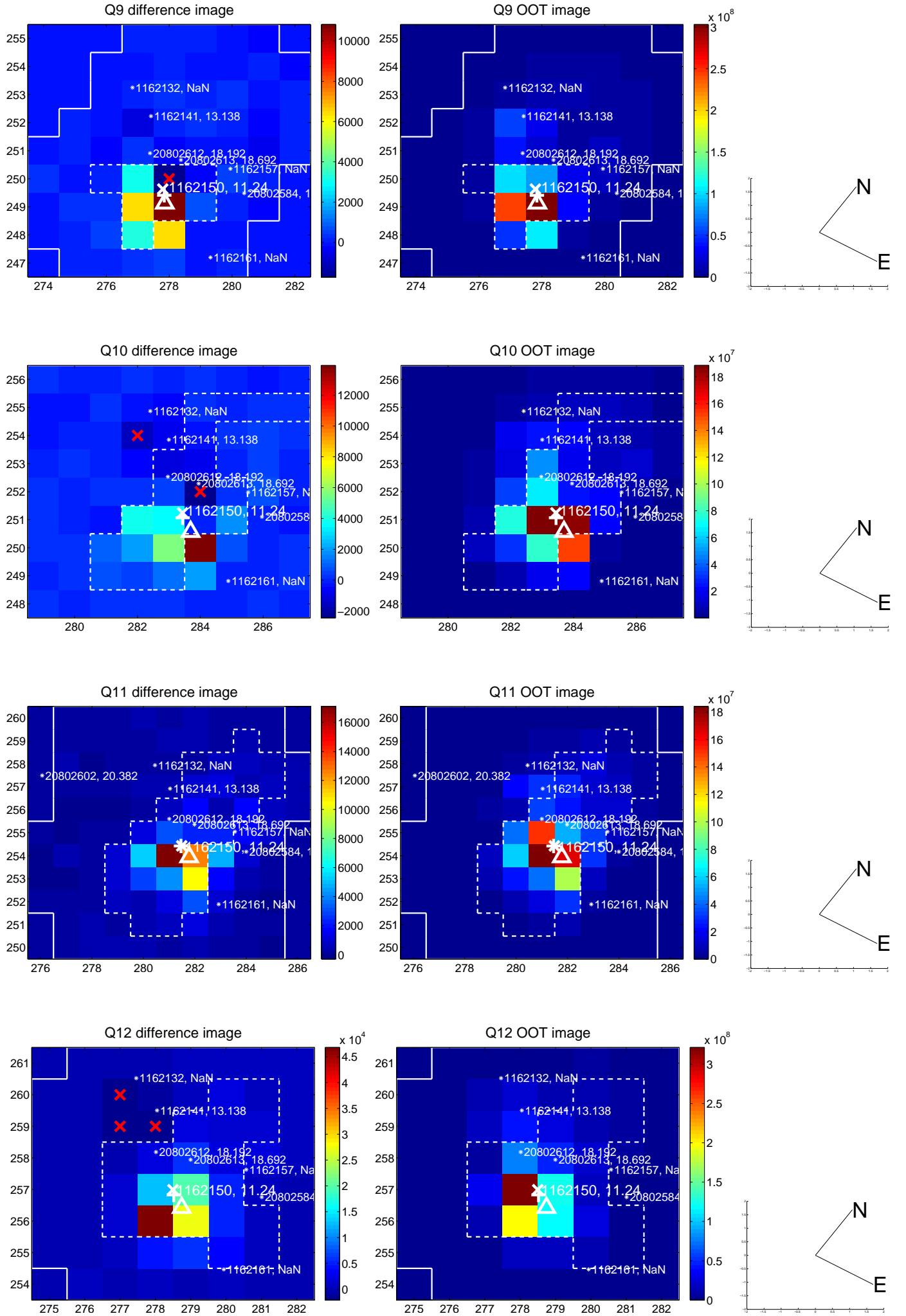
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



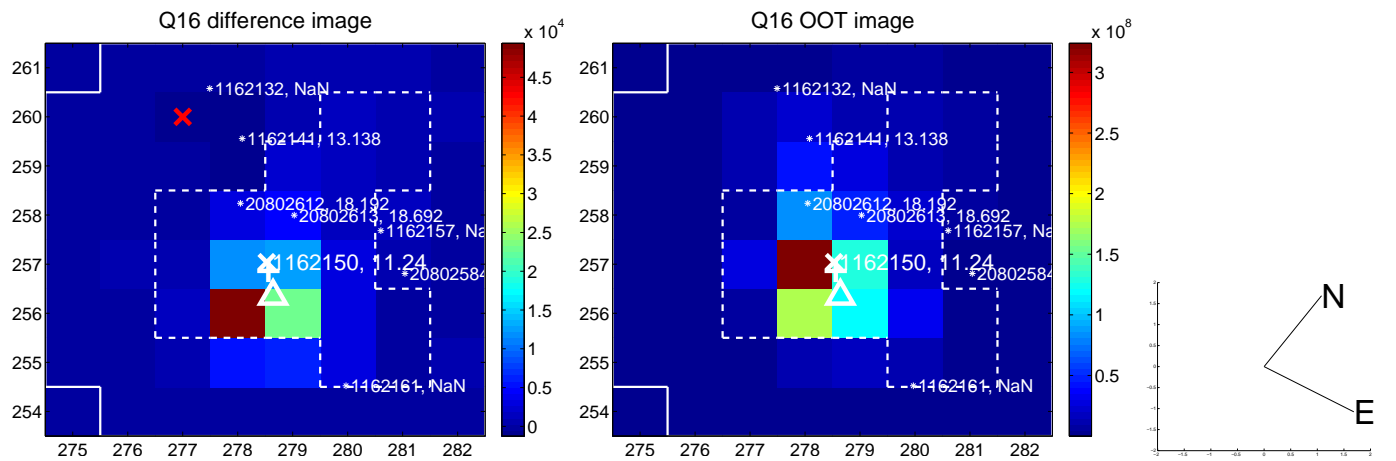
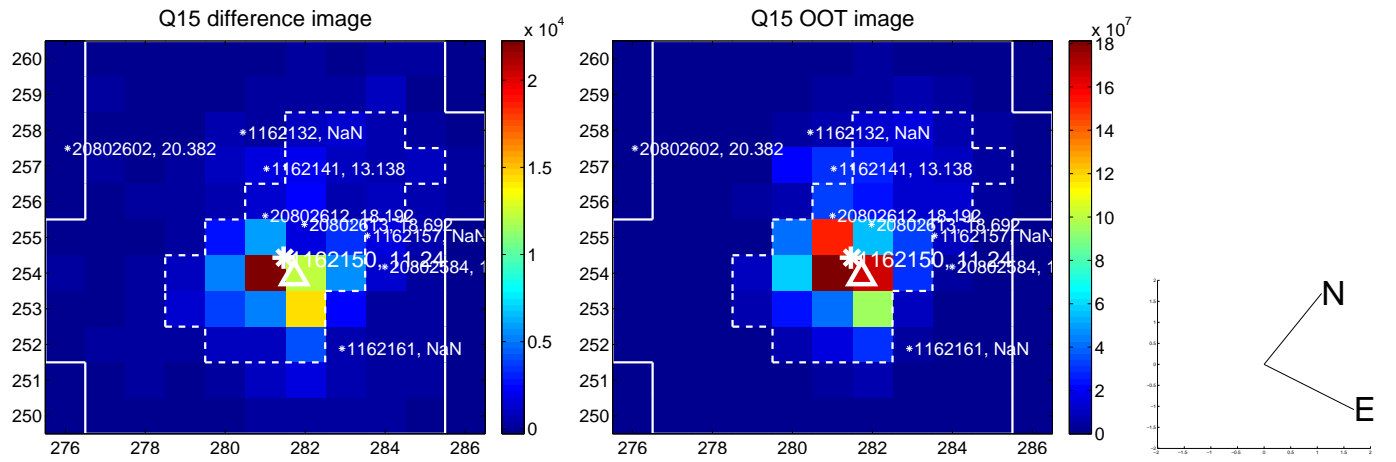
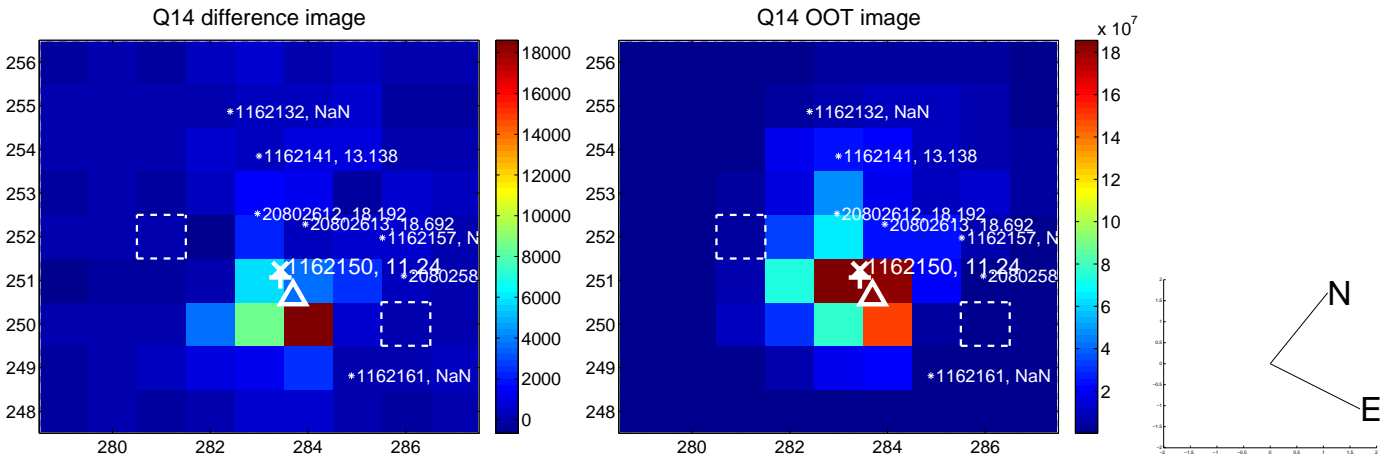
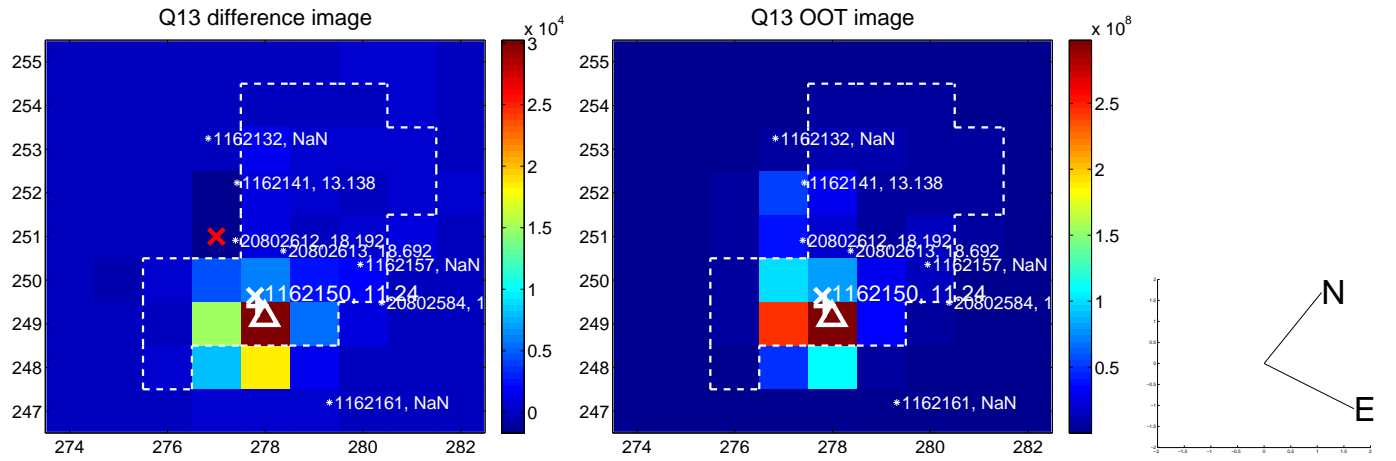
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



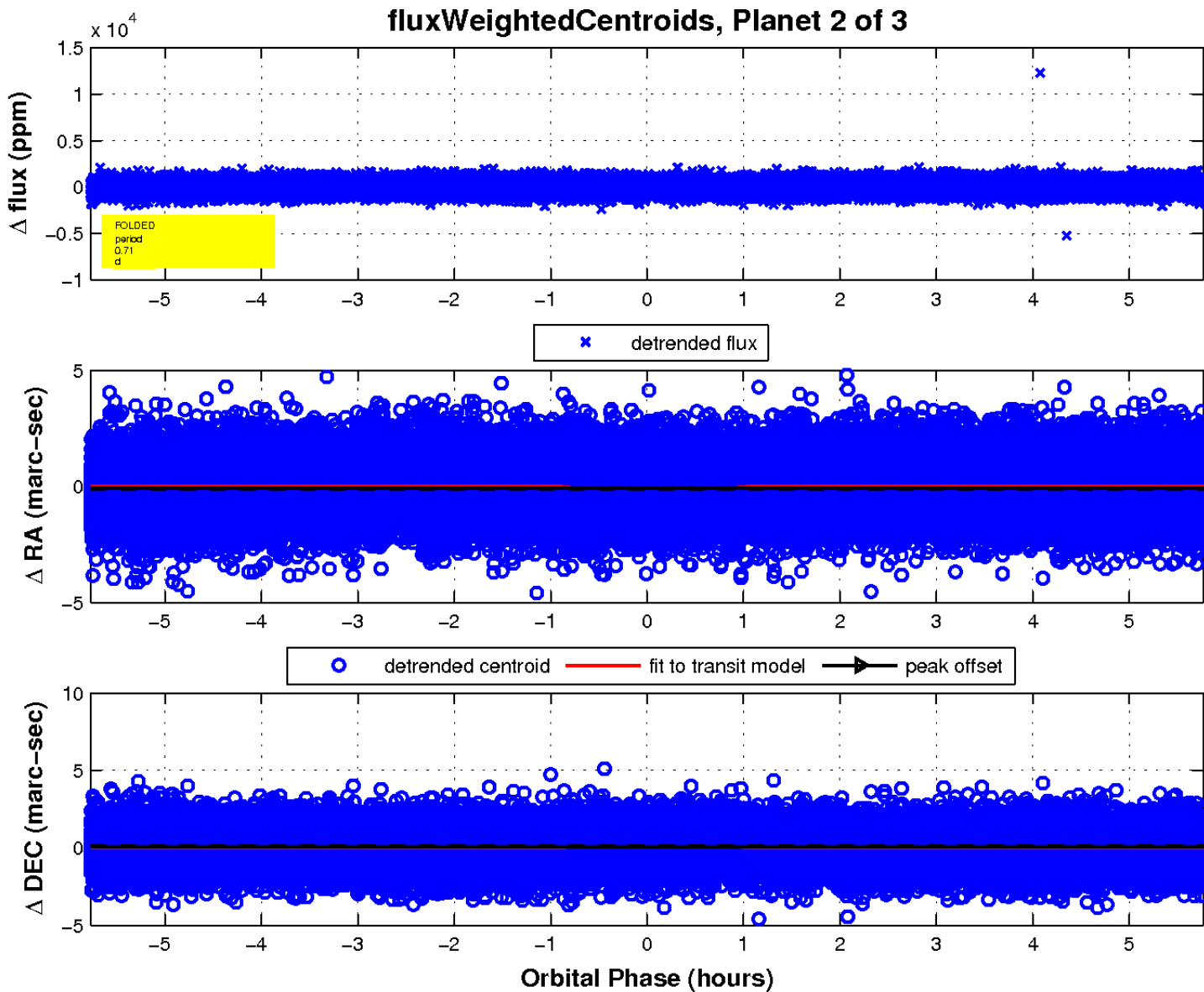
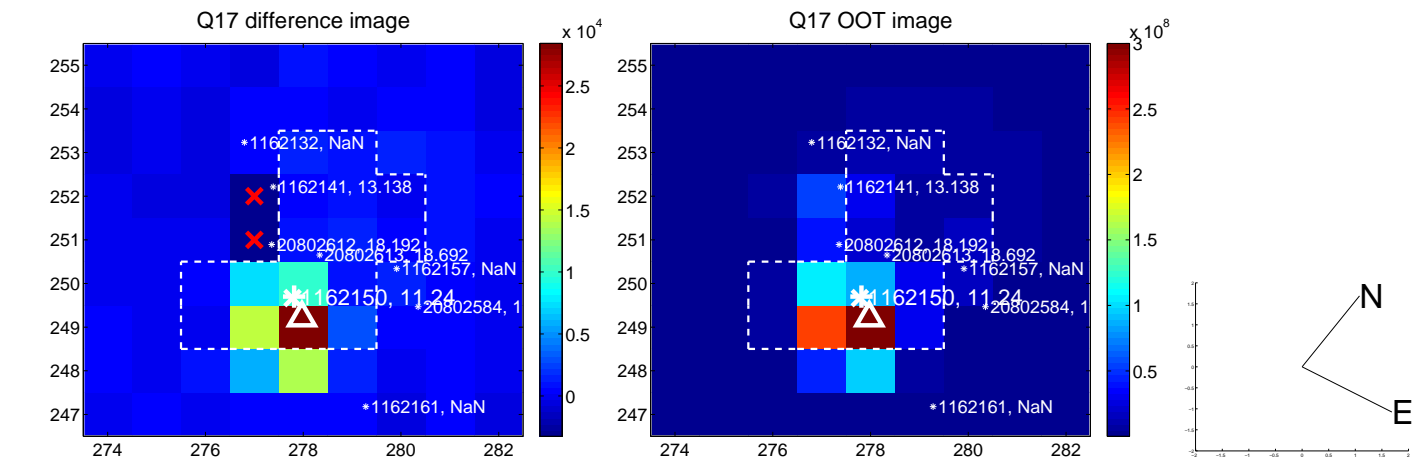
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



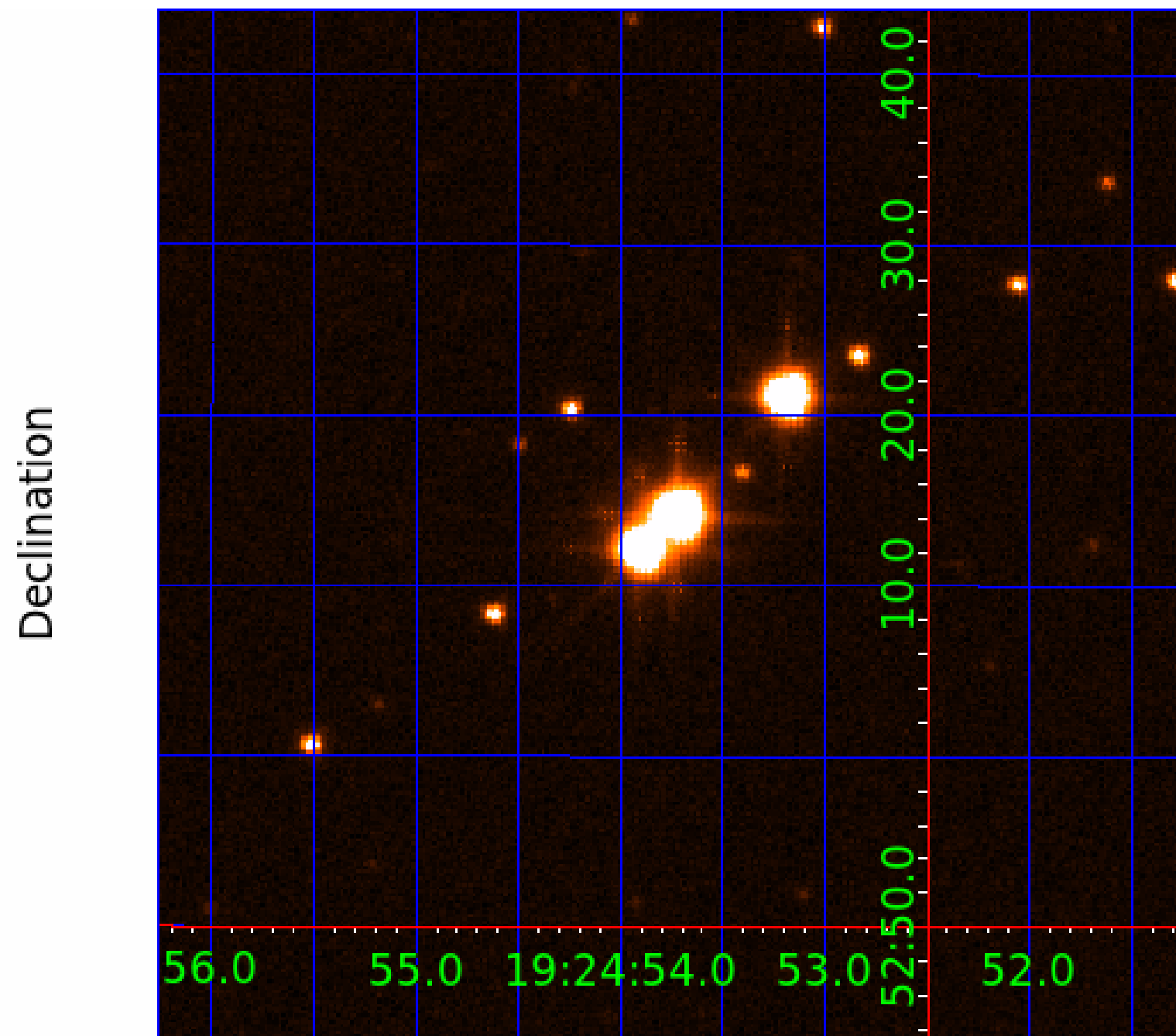
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 001162150

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})
001162150-01	OBS	No	1.130556	131.639315	64.0	2.329	9.4	9.6	4.31	7090	4.00	57035.08
001162150-02	OBS	No	0.710008	131.747505	40.3	1.924	8.5	6.0	4.31	7090	3.16	0.00
001162150-03	OBS	No	0.710011	131.995345	55.9	2.919	7.9	9.4	4.31	7090	3.74	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
001162150-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_SATURATED
001162150-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_SATURATED
001162150-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED

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

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

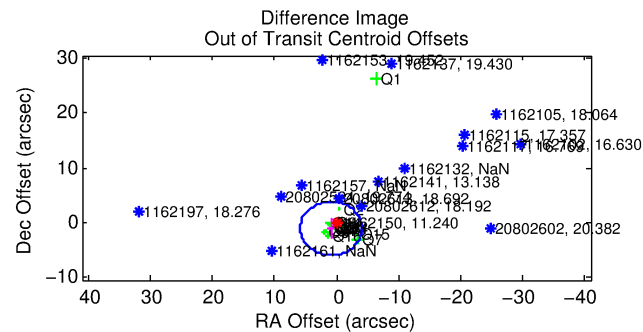
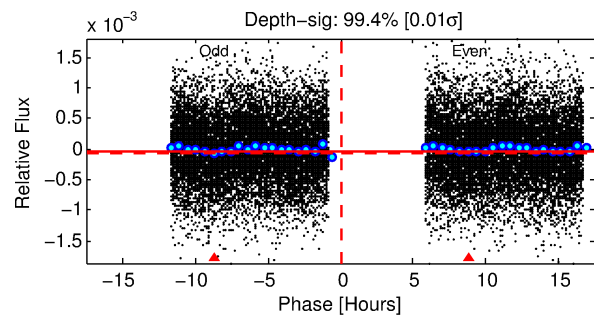
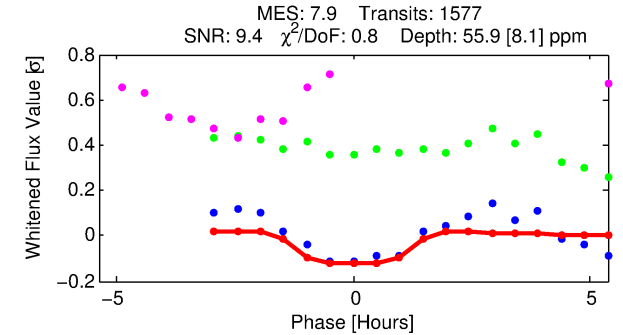
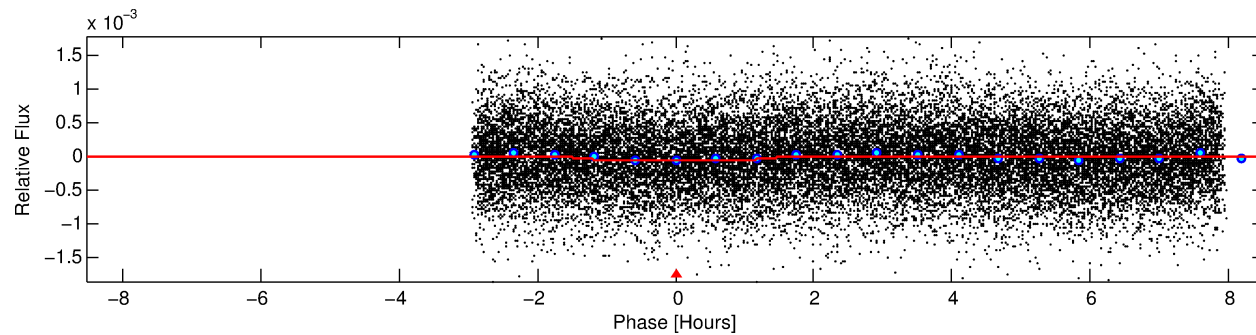
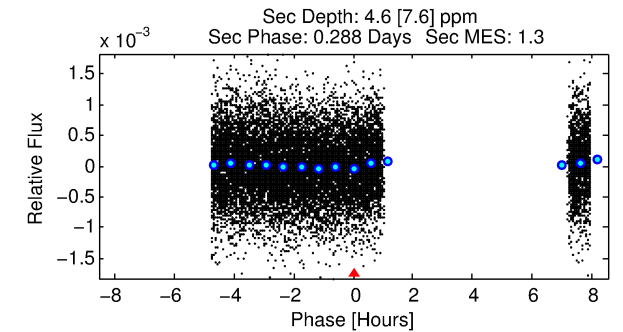
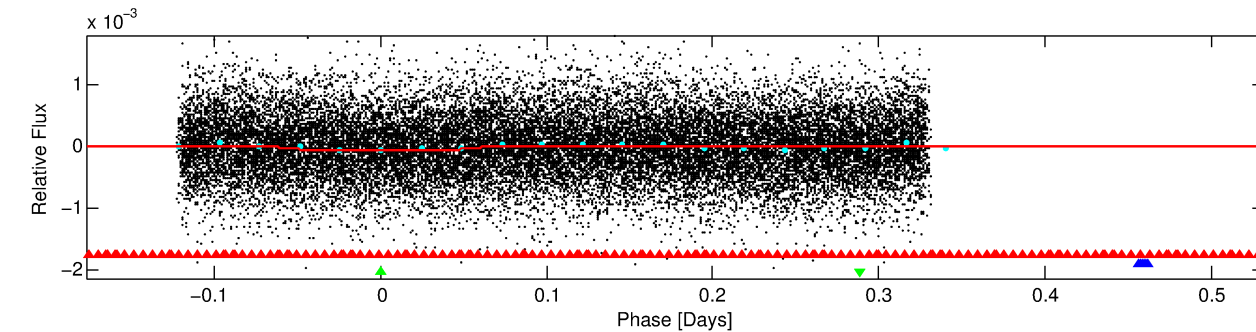
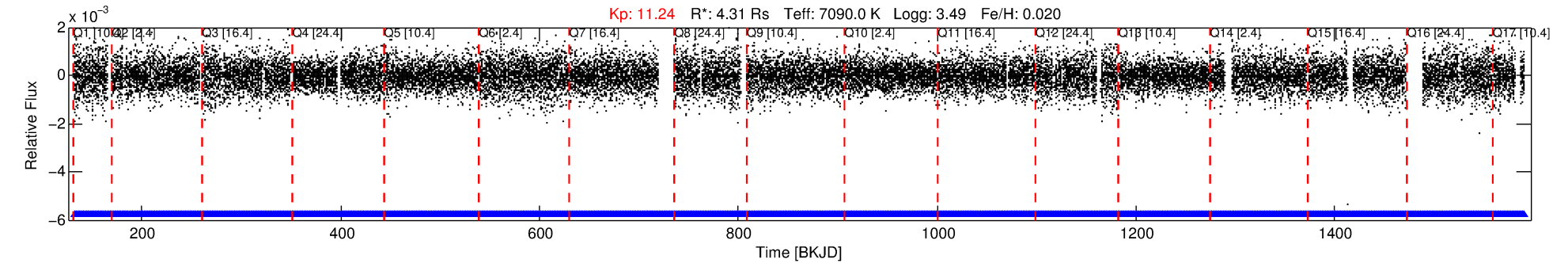
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 001162150-03

No Significant Match Found

DV One-Page Summary

KIC: 1162150 Candidate: 3 of 3 Period: 0.710 d



DV Fit Results:

Period = 0.71001 [0.00001] d
Epoch = 131.9953 [0.0037] BKJD
Rp/R* = 0.0080 [0.0048]
a/R* = 1.26 [1.75]
b = 0.90 [0.80]
Seff = N/A
Teq = N/A
Rp = 3.74 [3.14] Re
a = N/A
Ag = N/A
Teffp = N/A

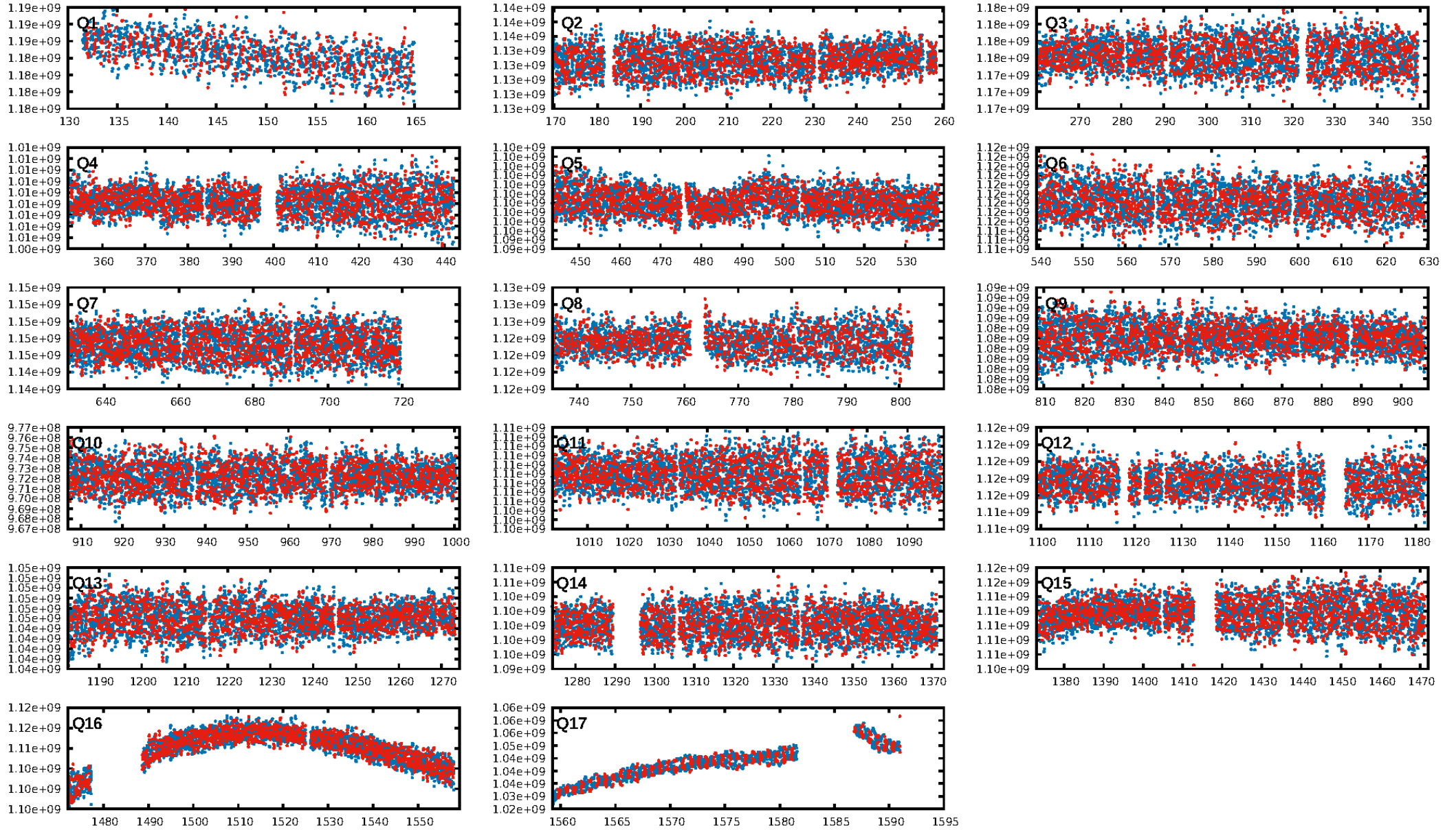
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 99.3% [2.70σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.58e-05
RollingBand-fgt: 1.00 [1506/1506]
GhostDiagnostic-chr: 0.7073
Centroid-sig: 0.0%
Centroid-so: 1.786 arcsec [3.62σ]
OotOffset-rm: 1.410 arcsec [0.86σ]
KicOffset-rm: 2.145 arcsec [1.31σ]
OotOffset-st: 4/3/3/5 [15]
KicOffset-st: 4/3/3/5 [15]
DiffImageQuality-fgm: 0.67 [10/15]
DiffImageOverlap-fno: 0.00 [0/17]

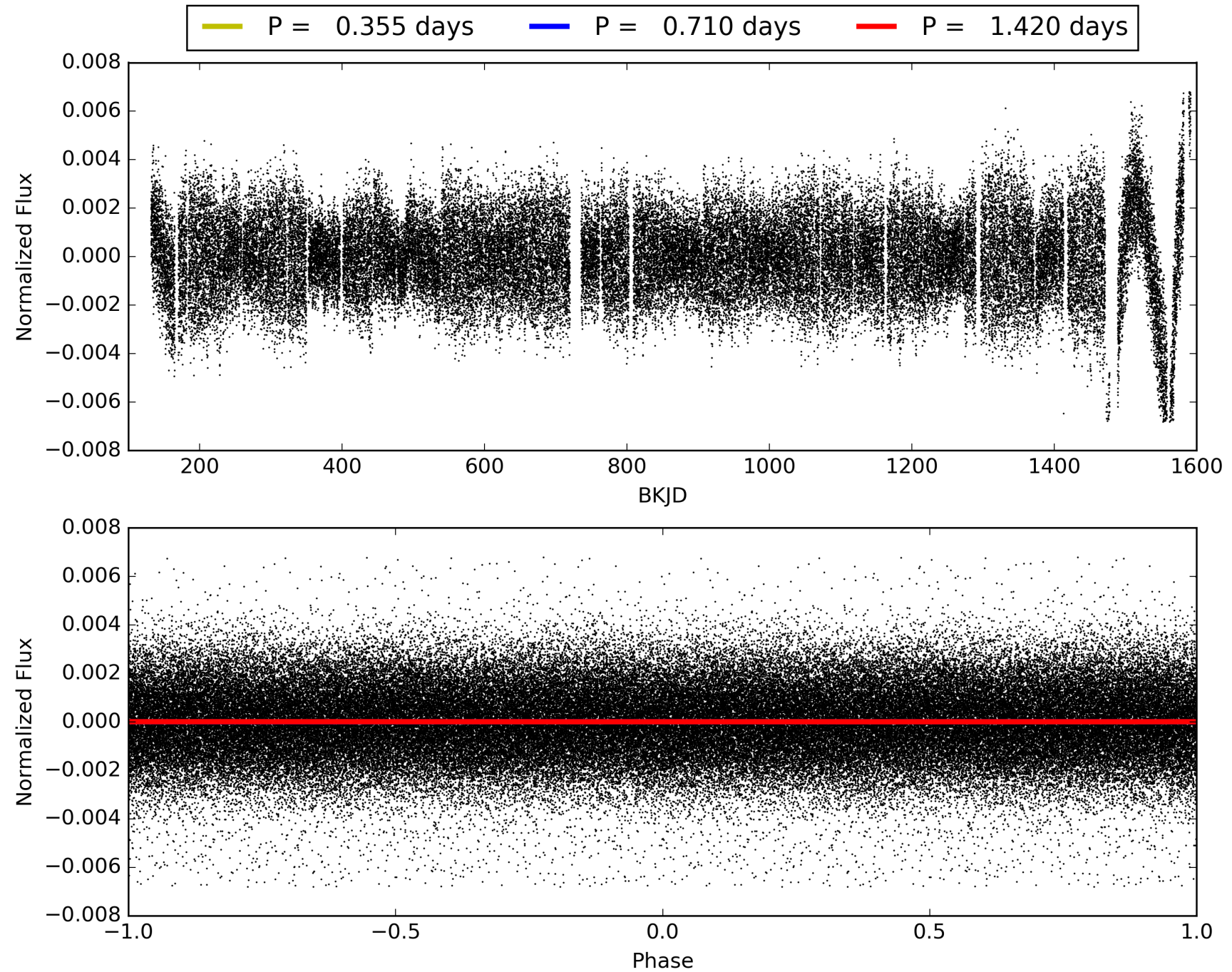
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 11:45:40 Z

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

TCE 001162150-03, PDC Light Curves

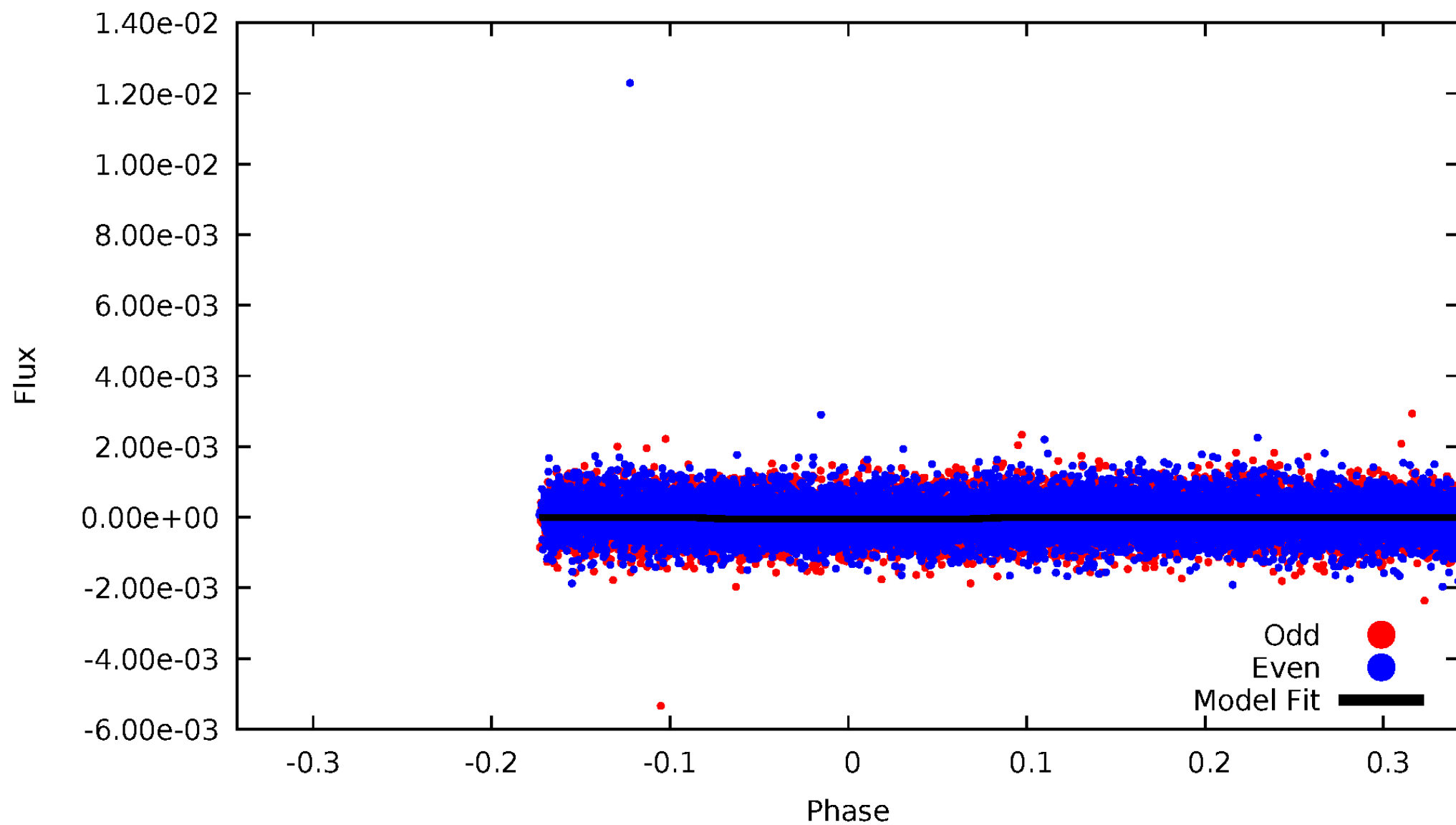


TCE 001162150-03



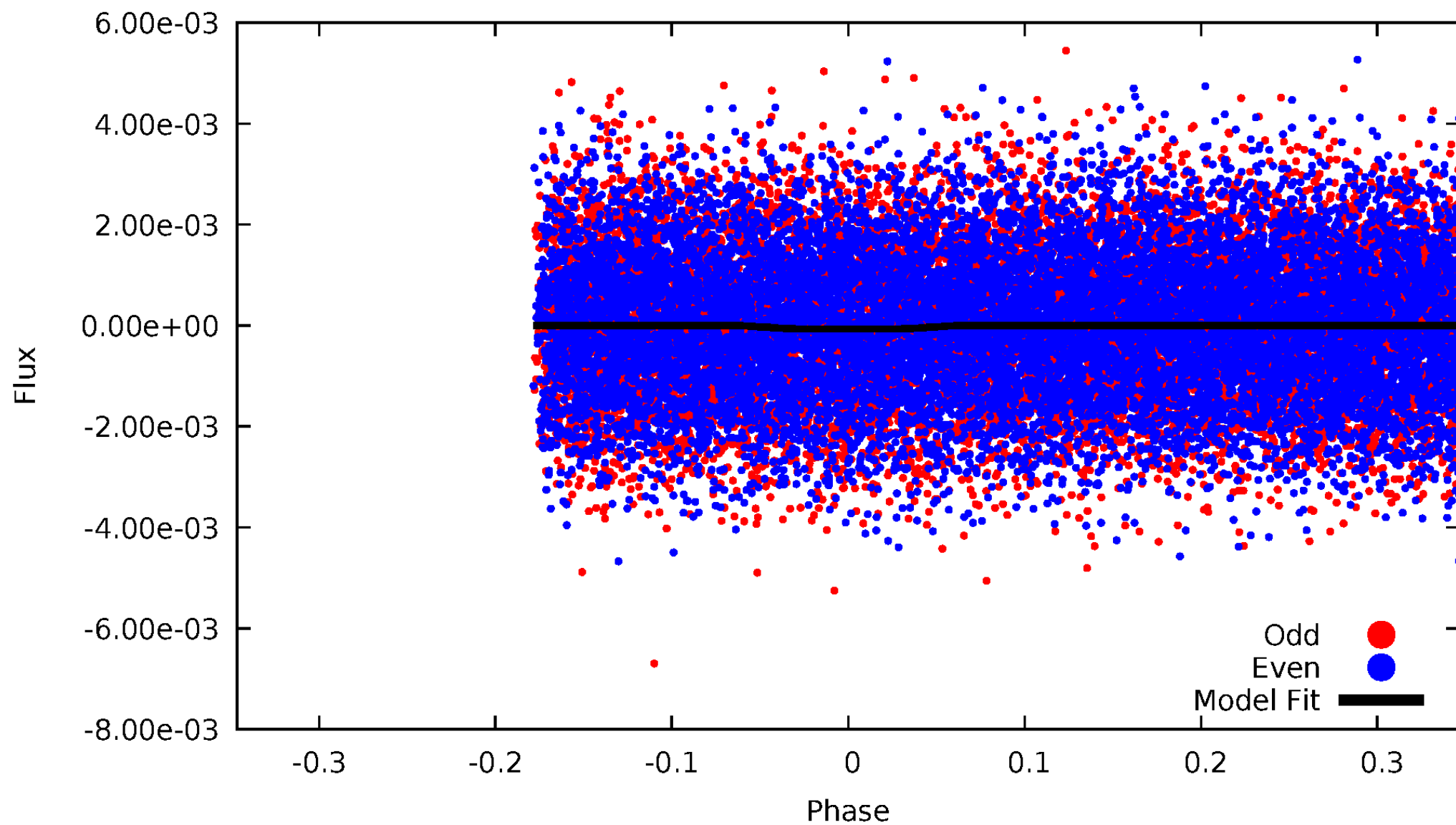
DV Odd/Even

TCE 001162150-03



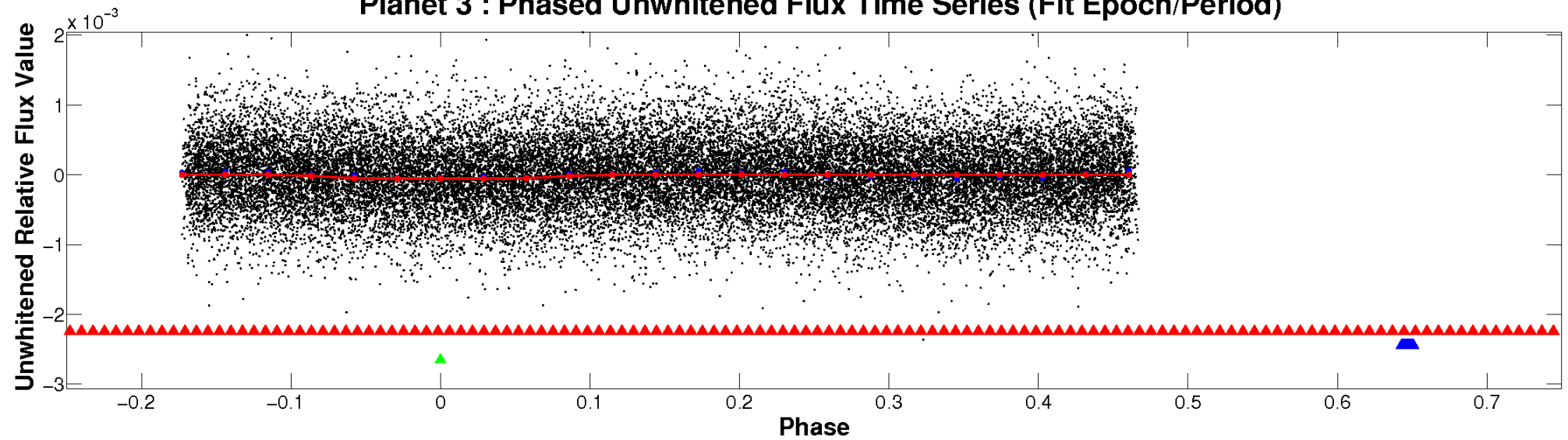
ALT Odd/Even

TCE 001162150-03

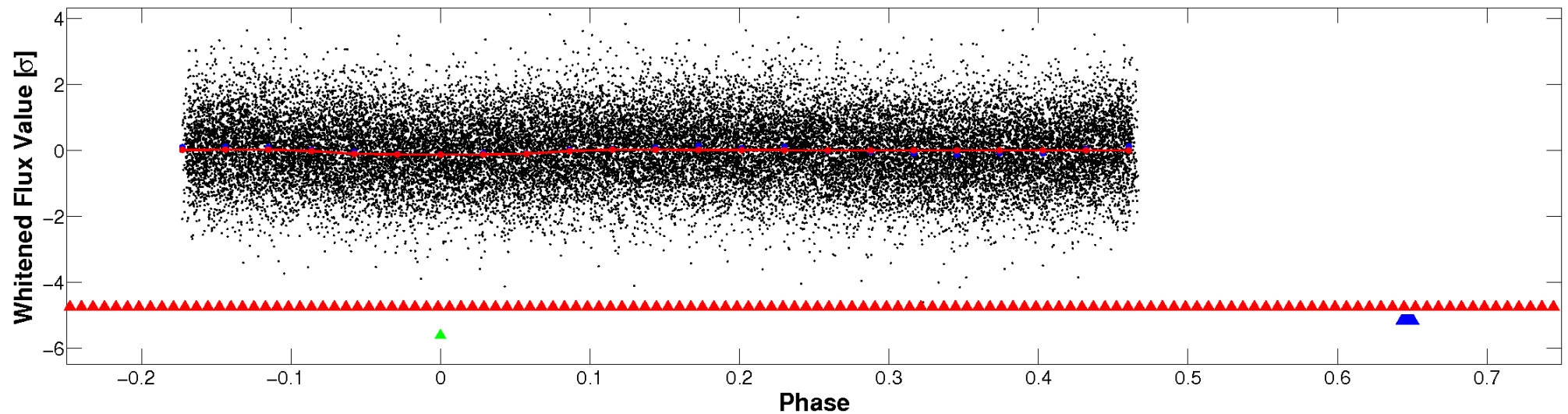


Non-Whitened Vs. Whitened Light Curve

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

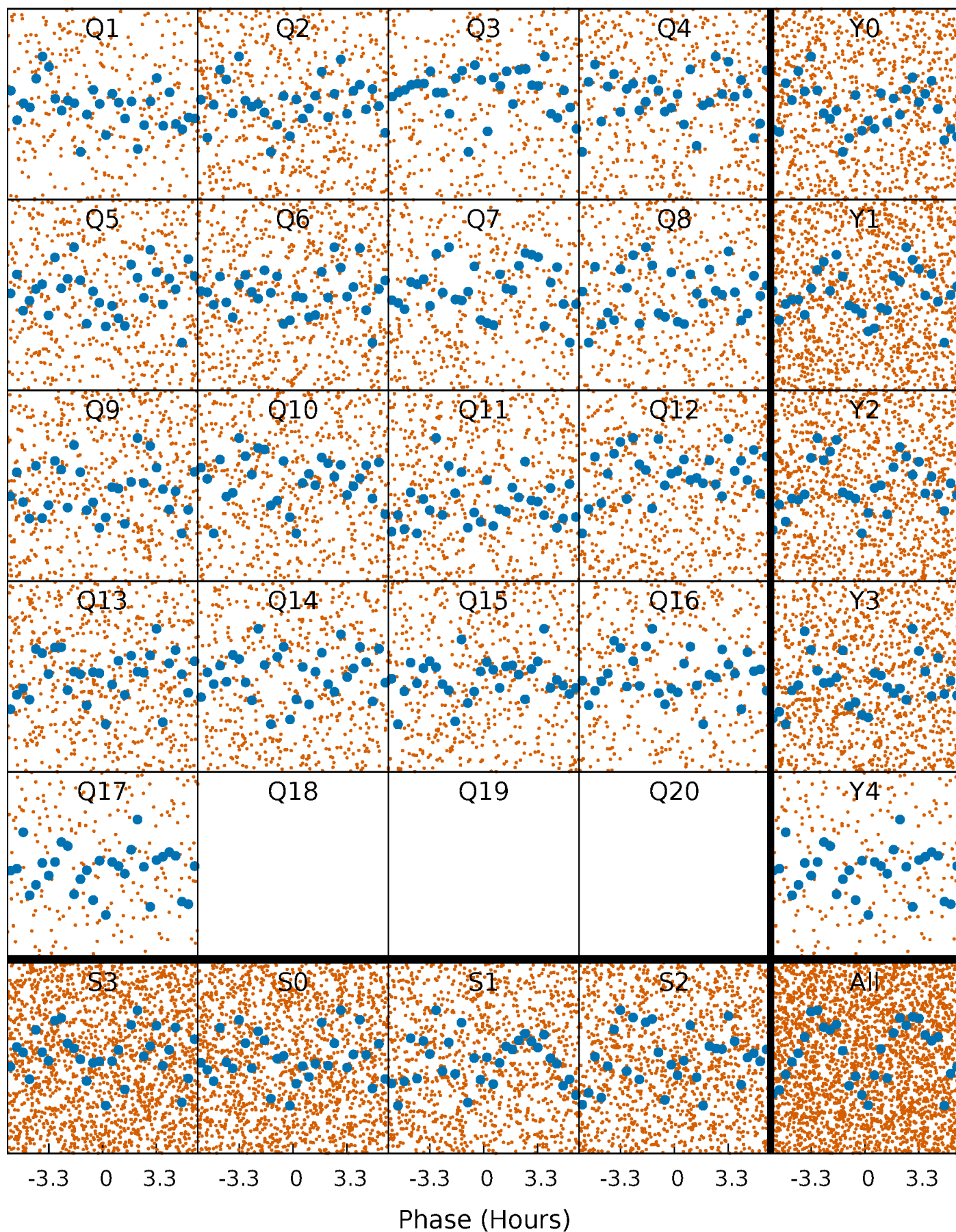


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



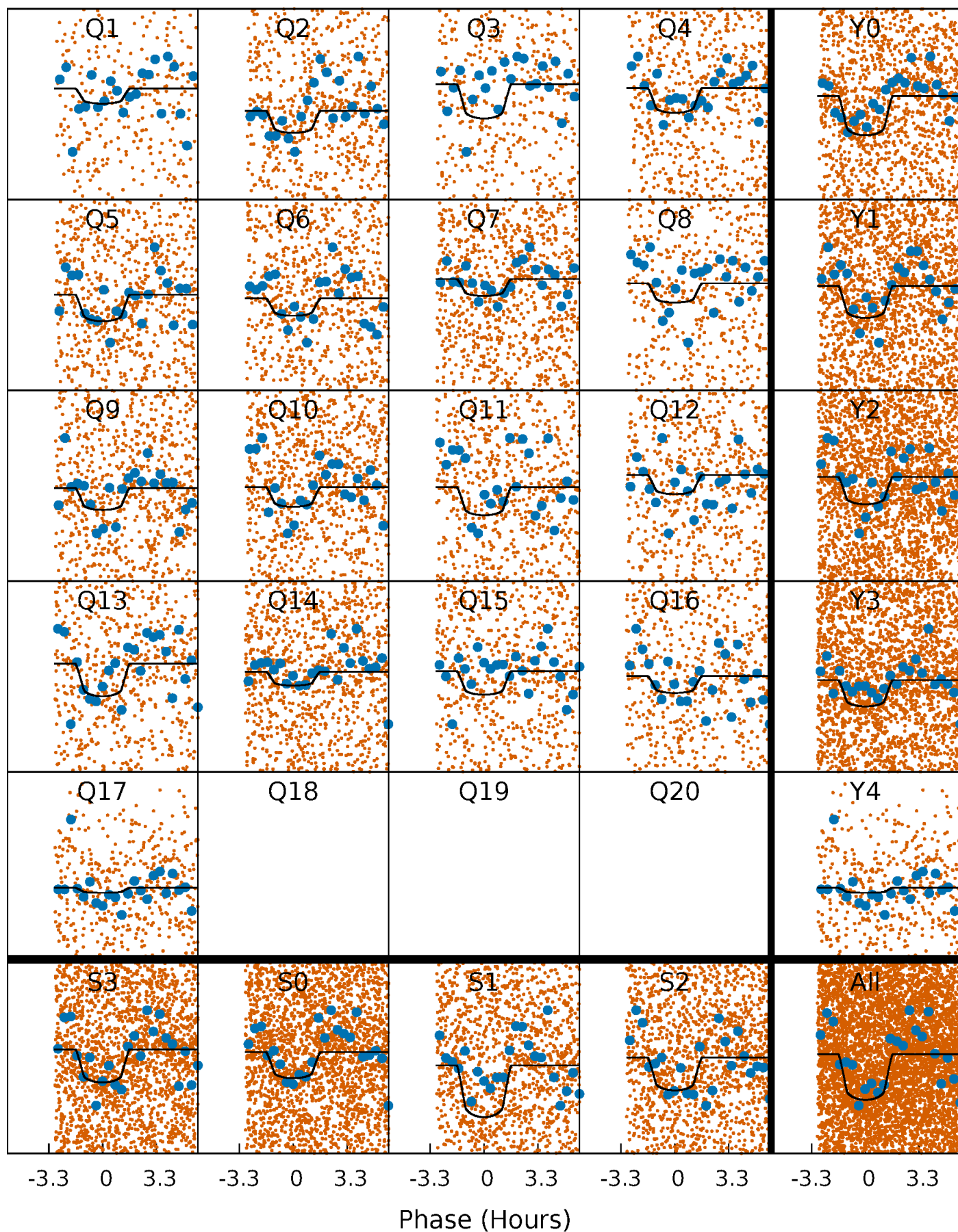
PDC Quarter-Phased Transit Curves

TCE 001162150-03 P= 0.710011 Days $T_0=131.995344$ (BKJD)



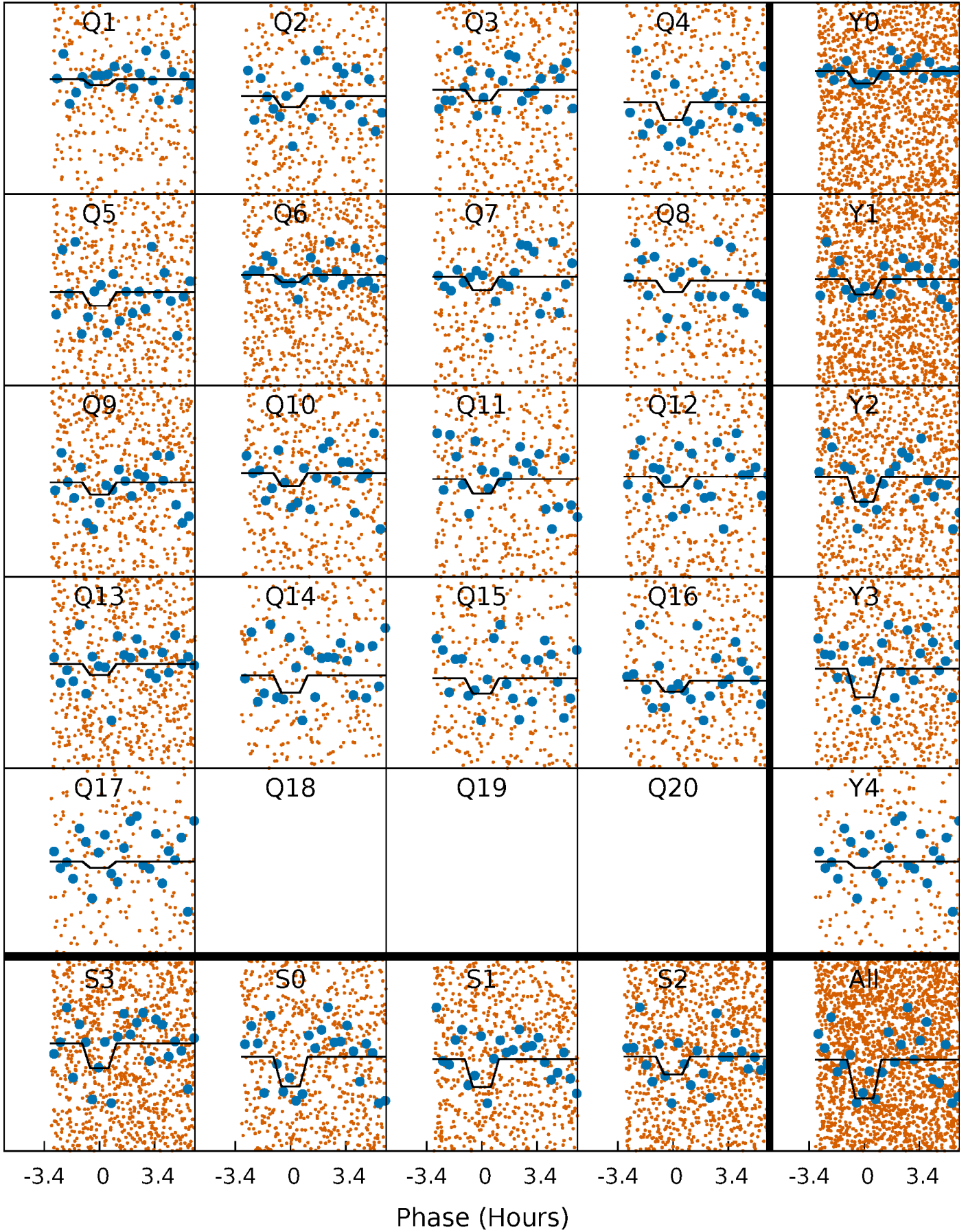
DV Quarter-Phased Transit Curves

TCE 001162150-03 P= 0.710011 Days $T_0=131.995344$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

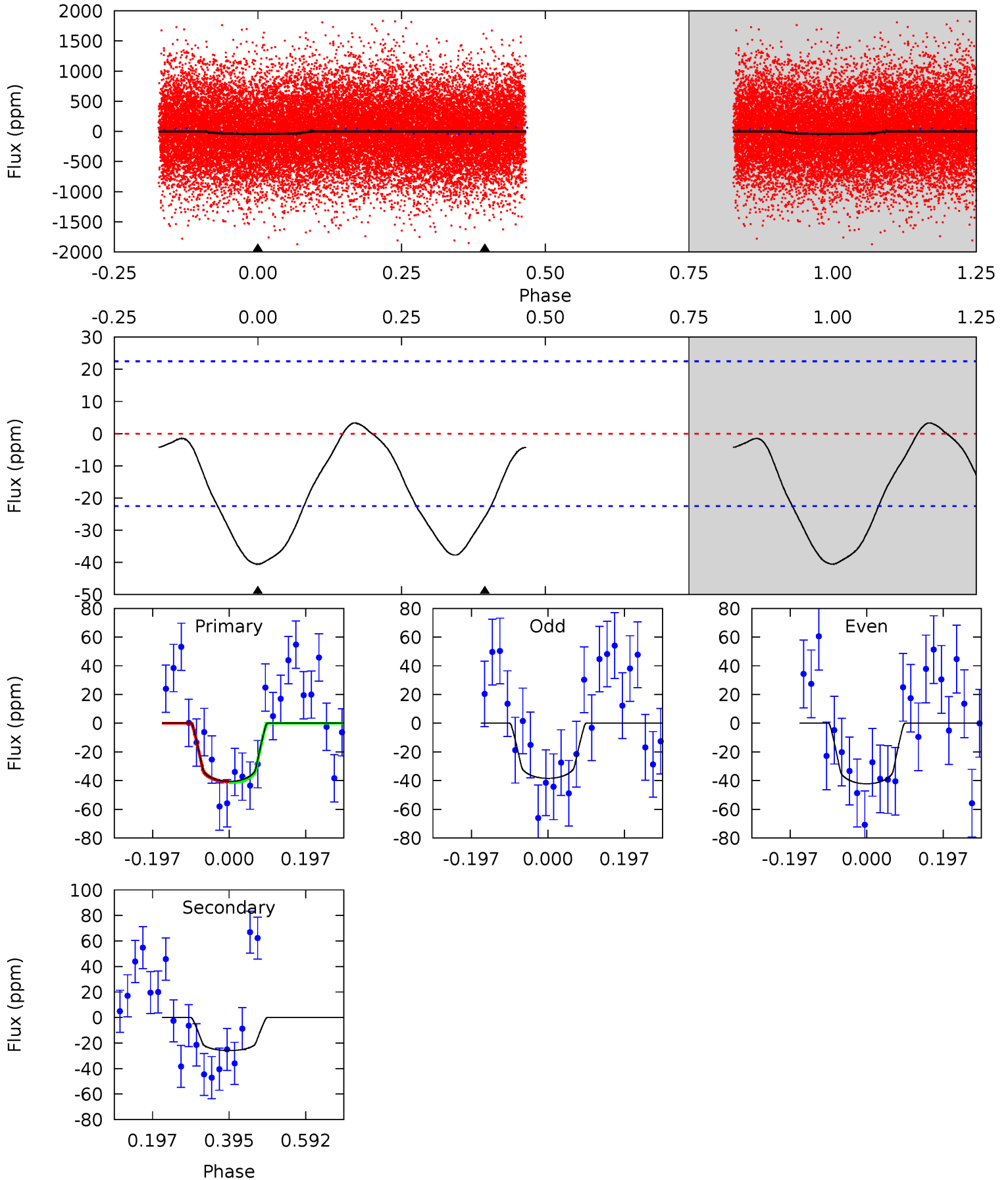
TCE 001162150-03 P= 0.710013 Days $T_0=131.995439$ (BKJD)



DV Model-Shift Uniqueness Test

001162150-03, P = 0.710011 Days, E = 131.285333 Days

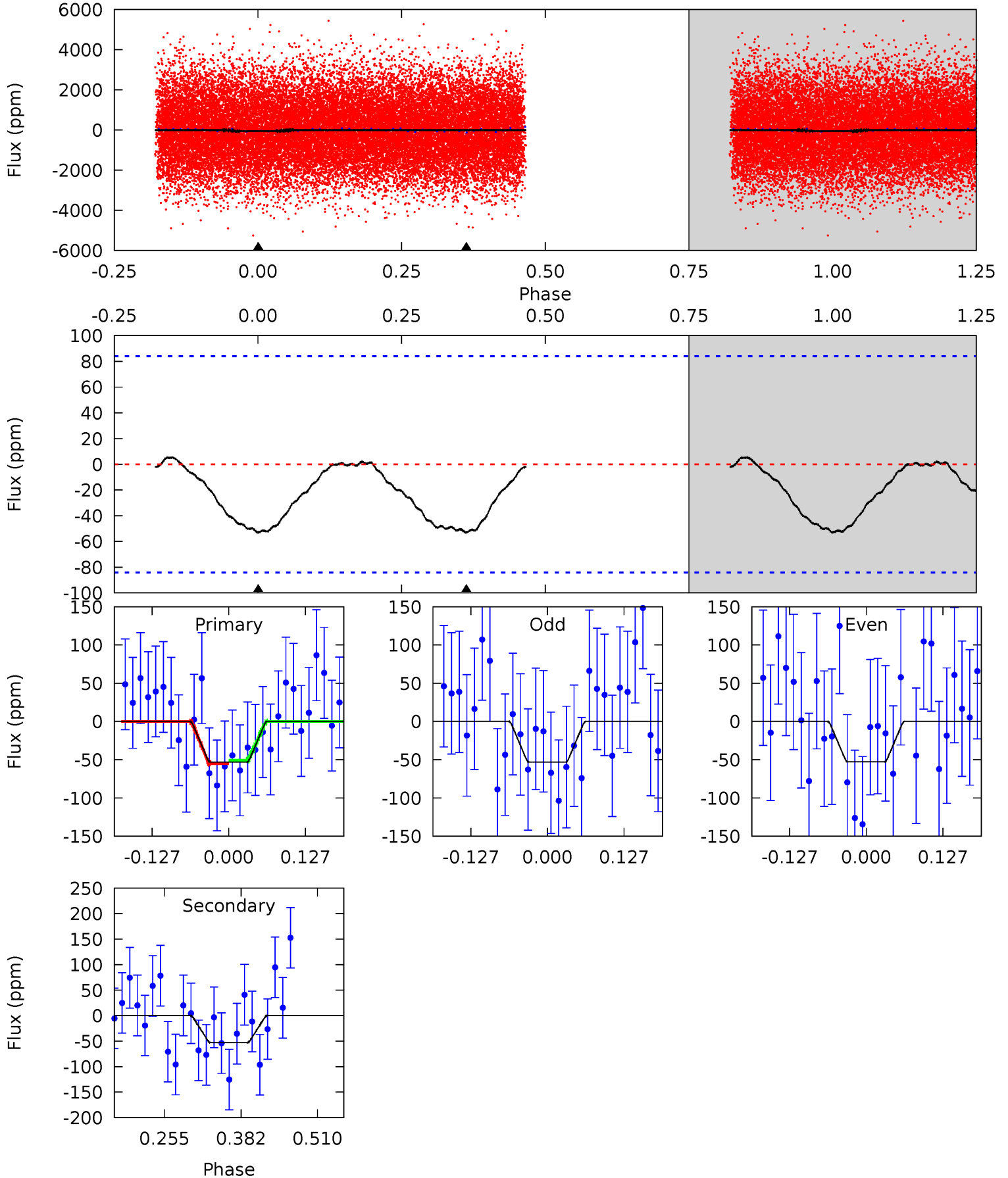
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.98	5.09	0	0	4.42	1.29	0.52	7.98	7.98	5.09	5.09	0.38	0.95	0.08	0.06



Alt Model-Shift Uniqueness Test

001162150-03, P = 0.710013 Days, E = 131.285426 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.85	2.84	0	0	4.51	1.52	0.28	2.85	2.85	2.84	2.84	0.01	0.66	0.09	0.12



Stellar Parameters For KIC 001162150

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7090^{+198}_{-297}	$3.489^{+0.612}_{-0.068}$	$0.020^{+0.250}_{-0.300}$	$4.311^{+0.282}_{-2.535}$	$2.087^{+0.114}_{-0.646}$	$0.037^{+0.308}_{-0.008}$
	+3%/-4%	+18%/-2%	+1250%/-1500%	+7%/-59%	+5%/-31%	+841%/-22%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 001162150-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-26 ± 5	$3.27^{+2.21}_{-1.78}$	6222^{+403}_{-877}	4543^{+3290}_{-8856}	$0.511^{+1.874}_{-0.334}$
Alt.	-53 ± 19	$3.32^{+2.20}_{-1.80}$	6233^{+393}_{-887}	5875^{+4281}_{-2302}	$0.980^{+3.716}_{-0.630}$

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

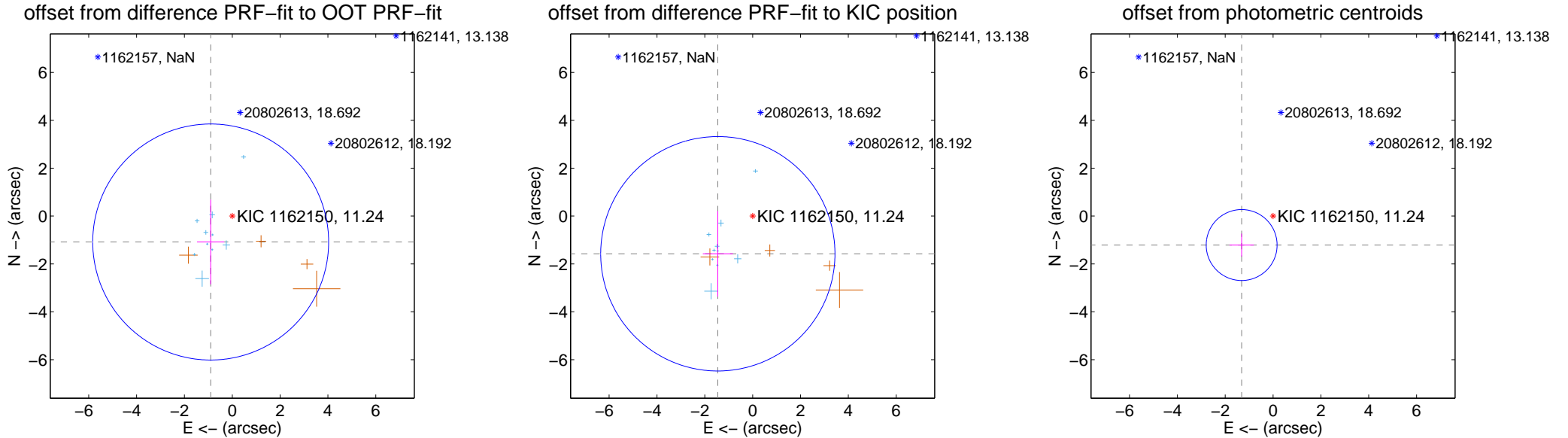
DV Centroid Data

Supplemental centroid analysis for 001162150-03. **Kepler magnitude: 11.24.** Transit SNR 9.39

There are 10 quarters with good PRF difference image offsets

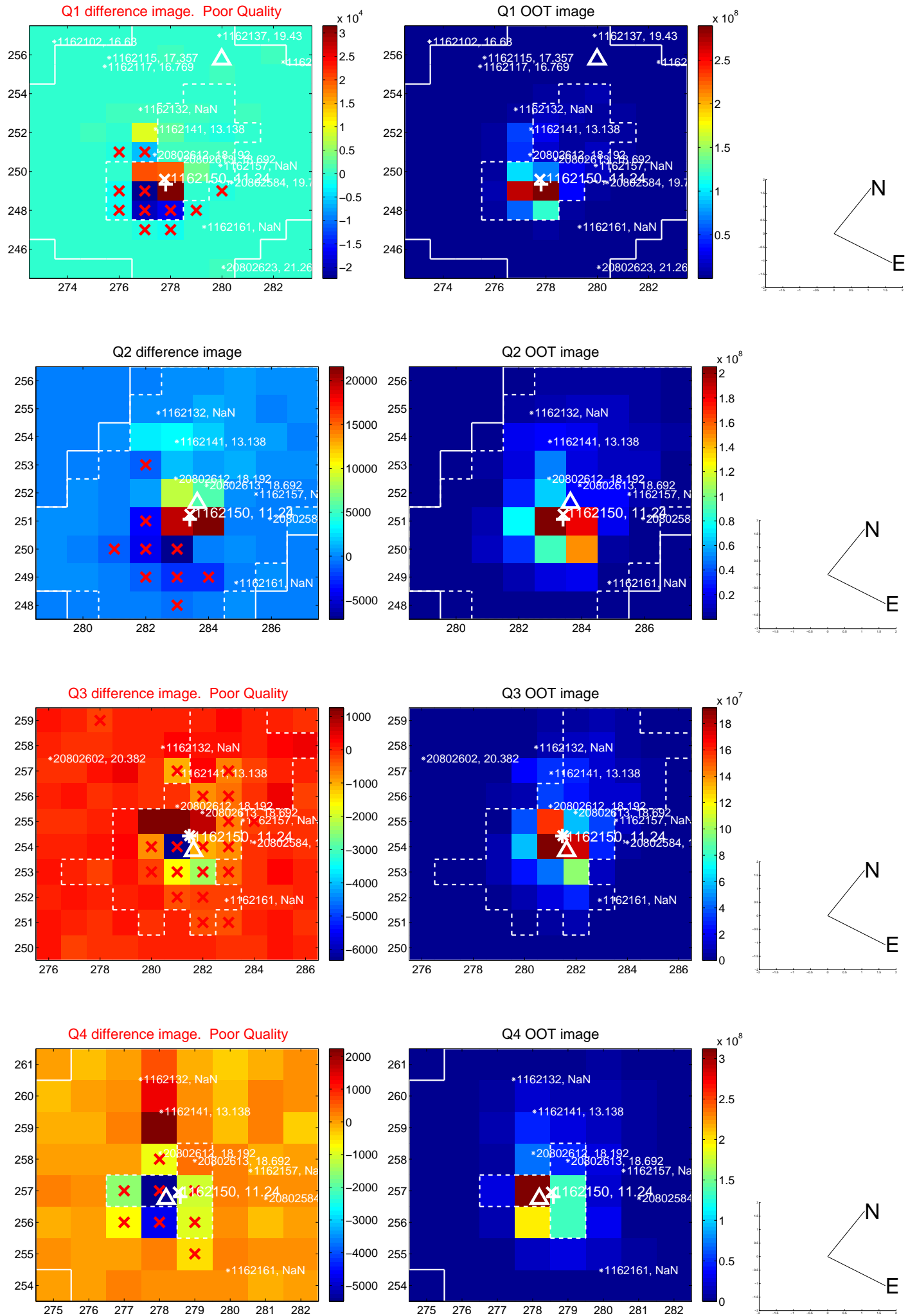
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.410 ± 1.643	0.86	0.902 ± 0.570	-1.084 ± 1.768
PRF-fit source offset from KIC position	2.145 ± 1.632	1.31	1.456 ± 0.628	-1.575 ± 1.785
photometric centroid source offset	1.79 ± 0.49	3.62	1.31 ± 0.51	-1.21 ± 0.48

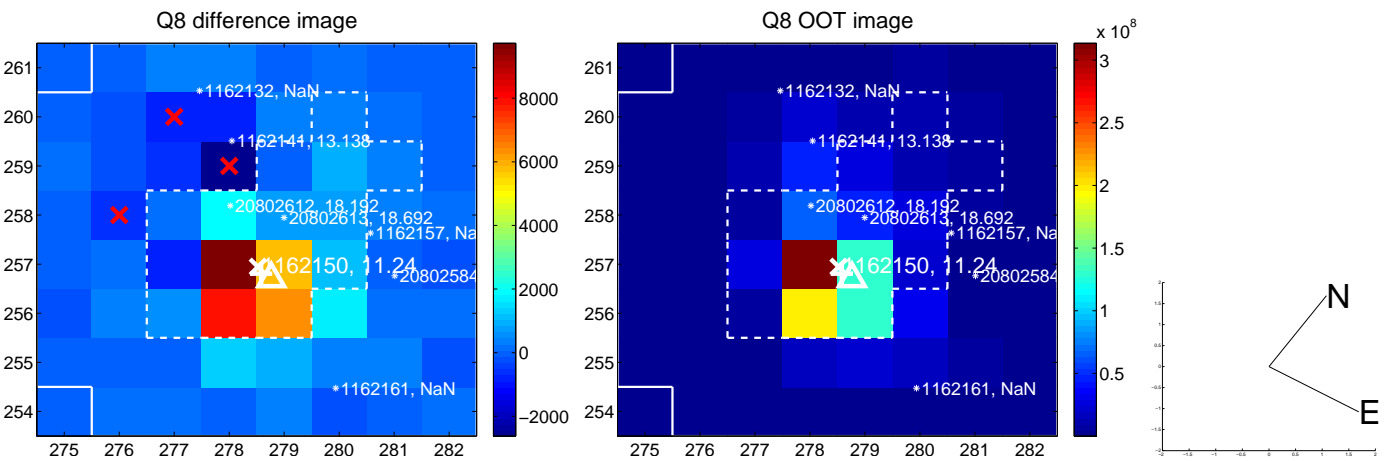
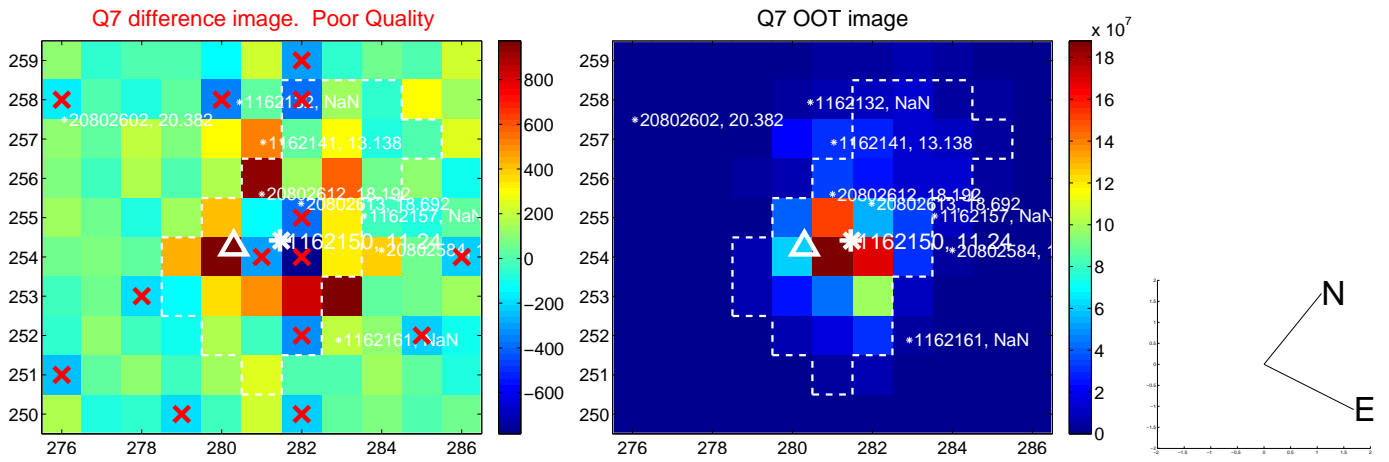
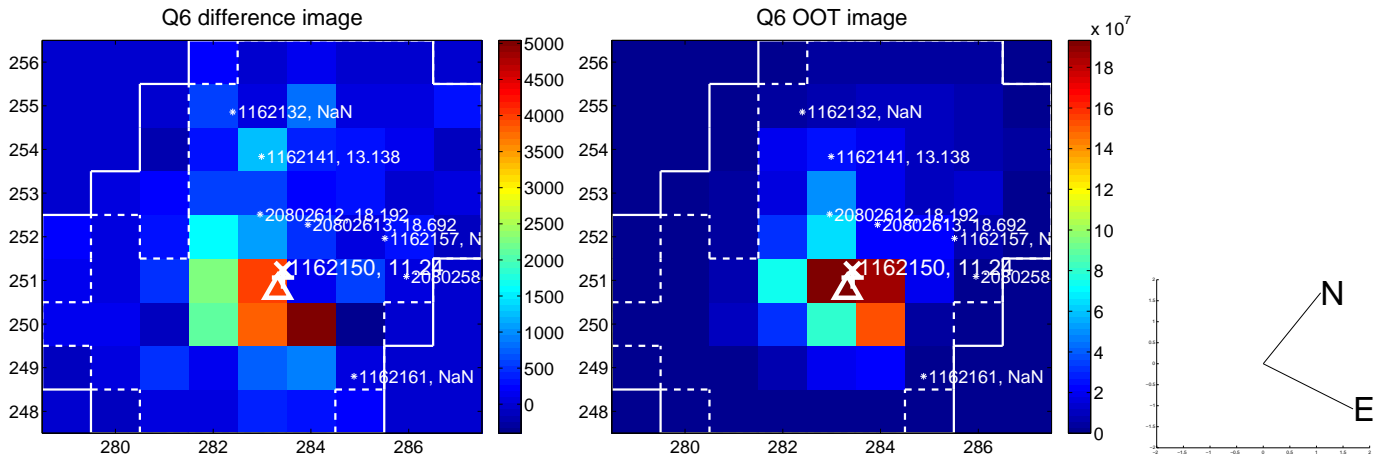
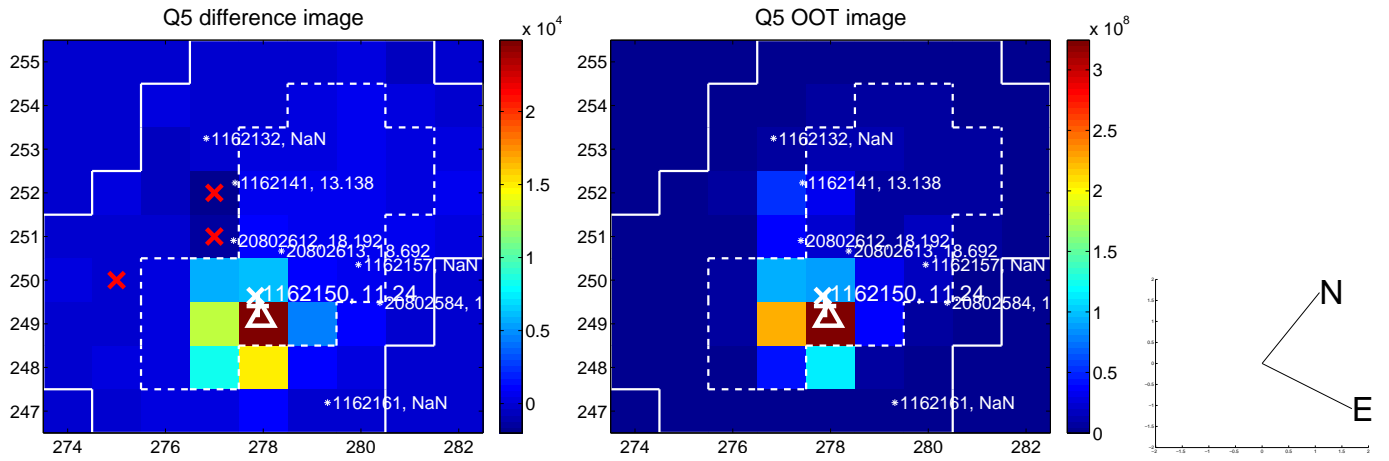


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

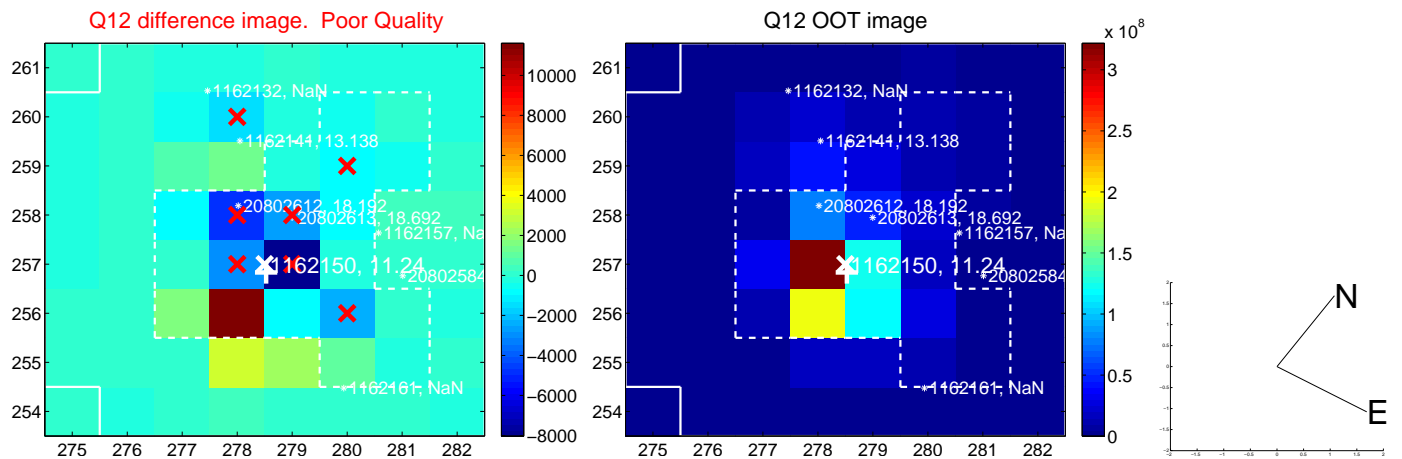
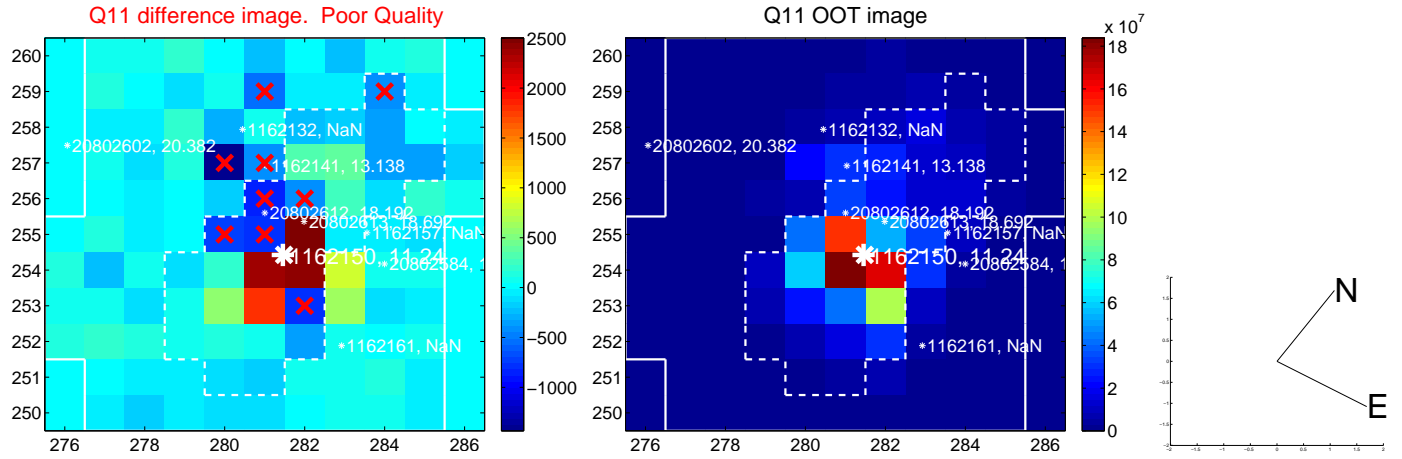
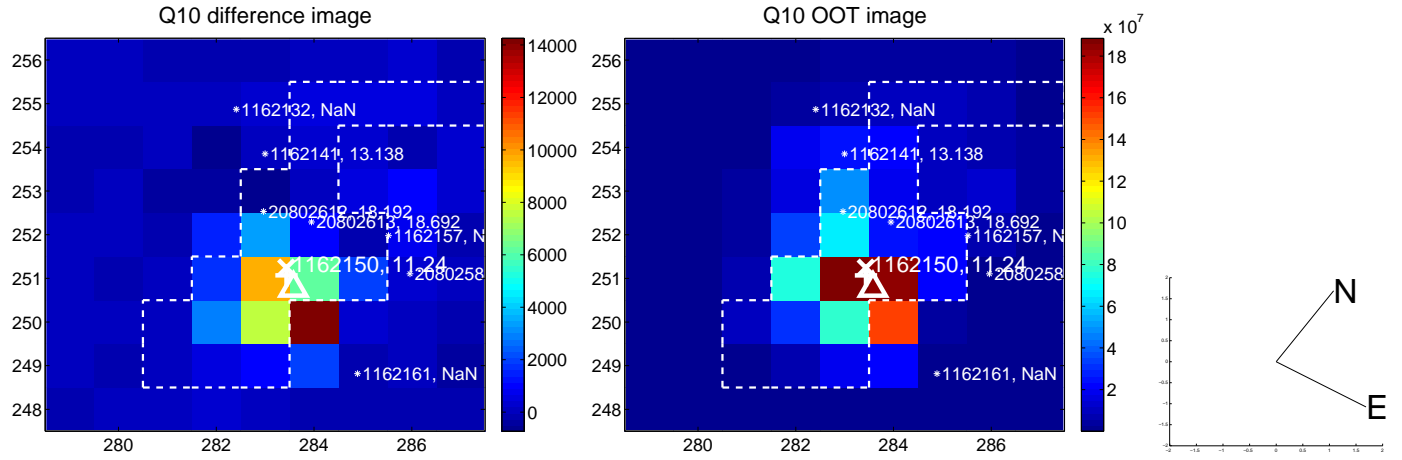
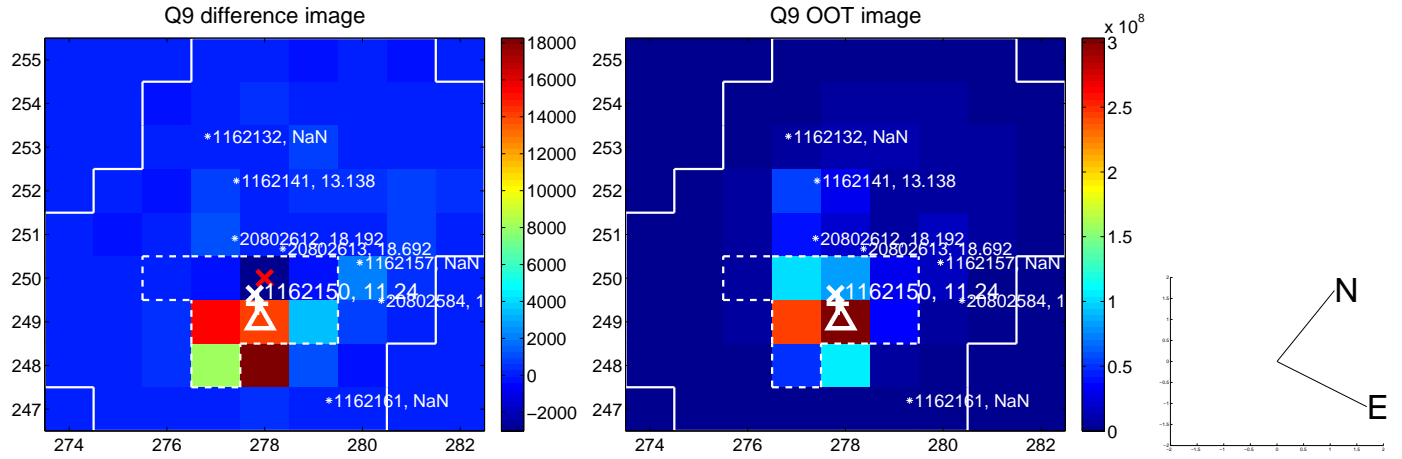
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



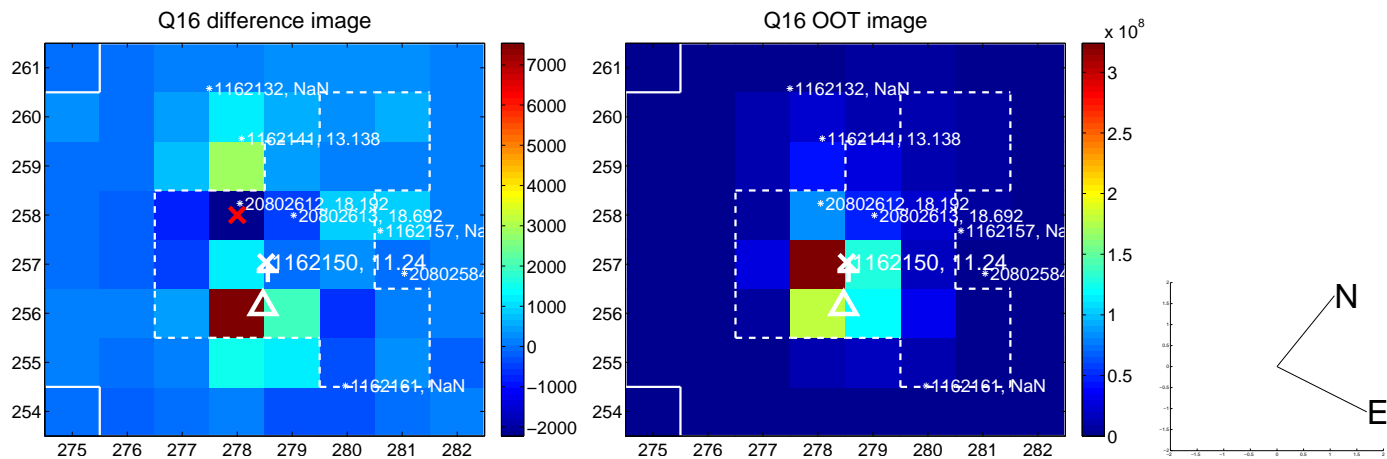
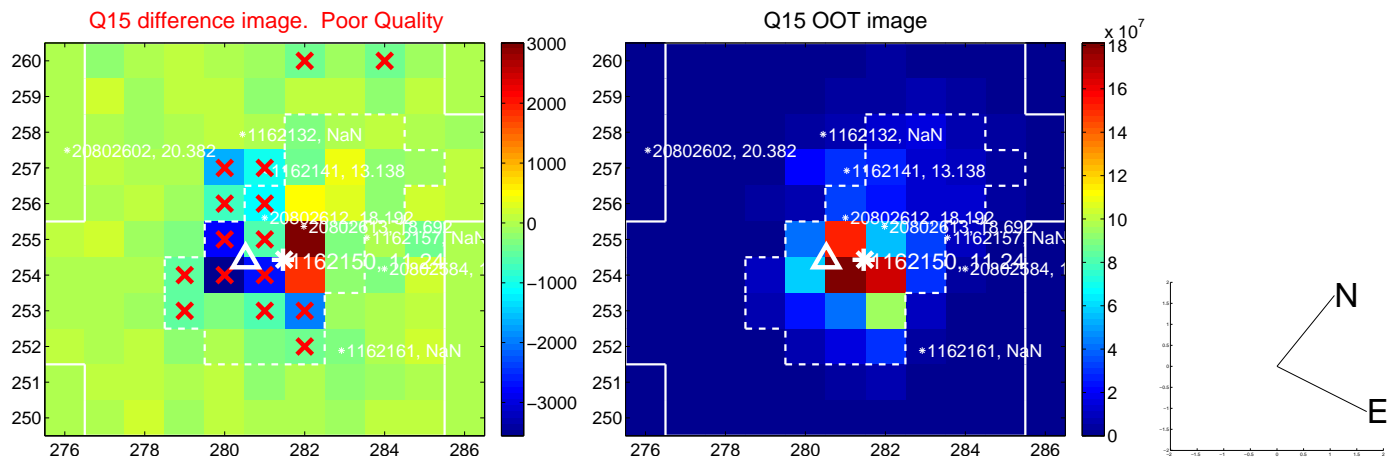
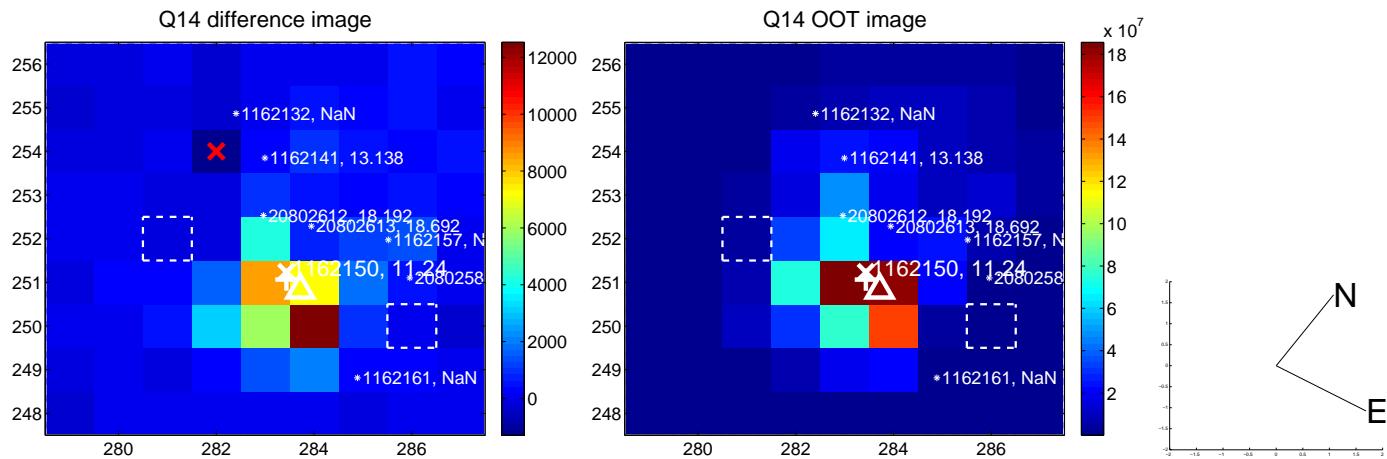
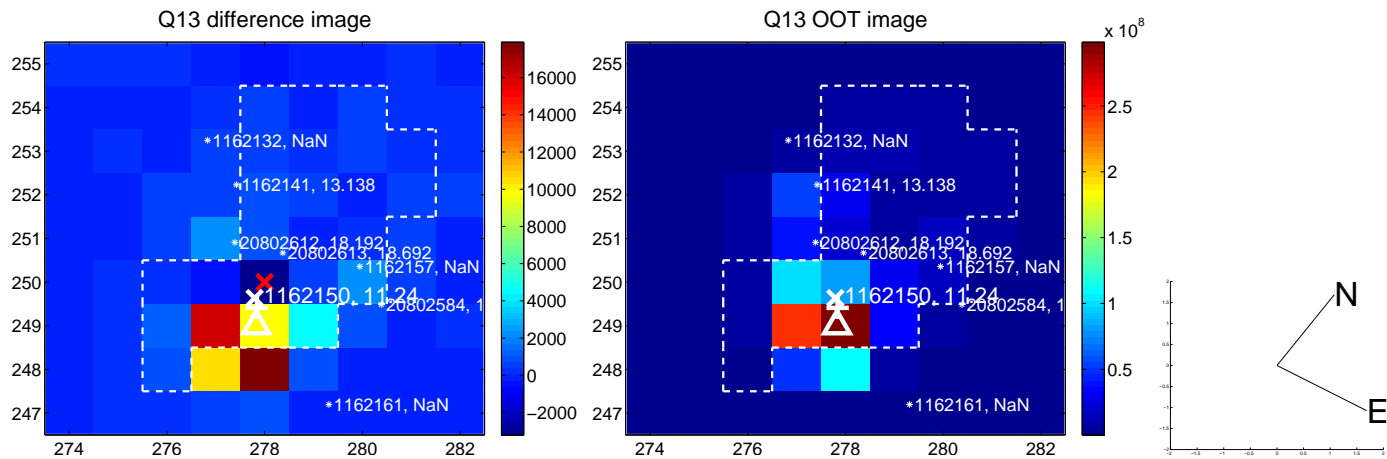
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



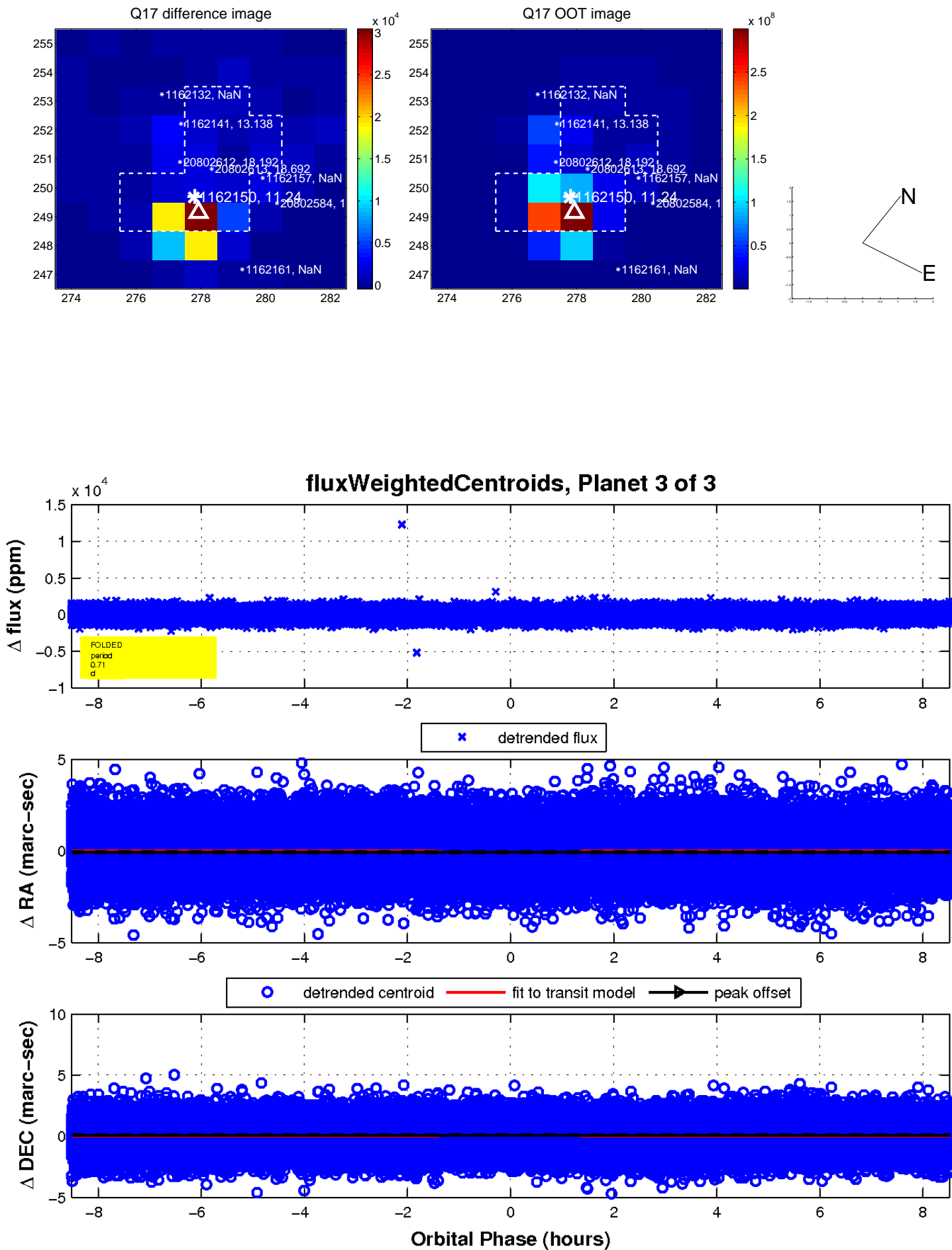
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

