

KIC 006380544

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})
006380544-01	OBS	No	1.948340	132.128150	6.6	5.845	11.9	12.5	3.32	9631	0.88	46939.62
006380544-02	OBS	No	1.948388	132.960774	5.8	7.663	12.1	13.2	3.32	9631	0.89	46938.07
006380544-03	OBS	No	46.649354	174.910460	53.8	1.734	12.5	5.9	3.32	9631	2.76	680.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006380544-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006380544-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_SATURATED
006380544-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

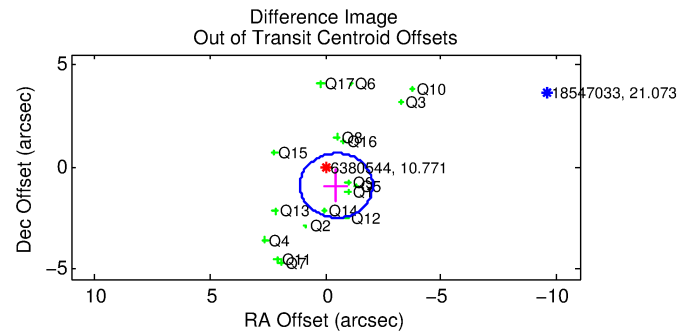
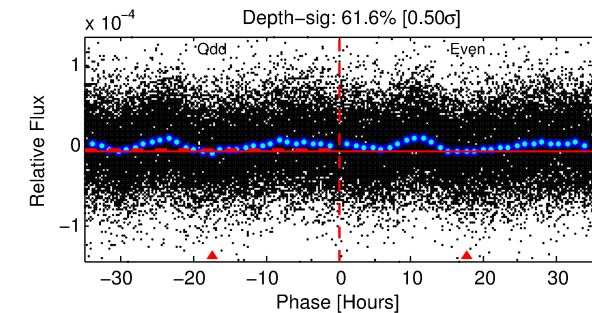
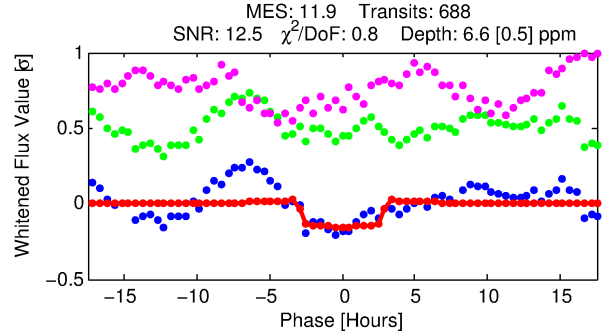
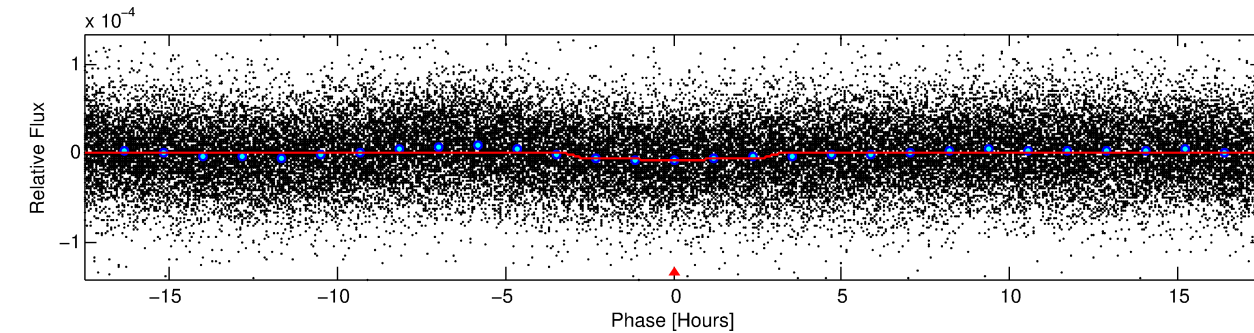
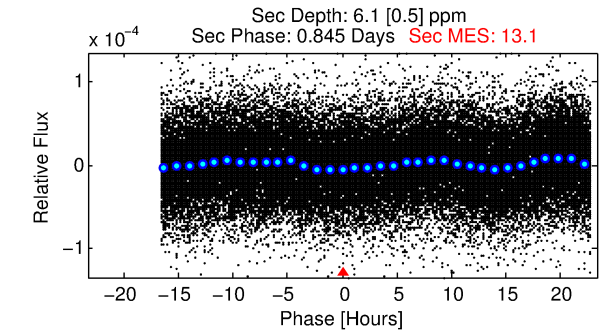
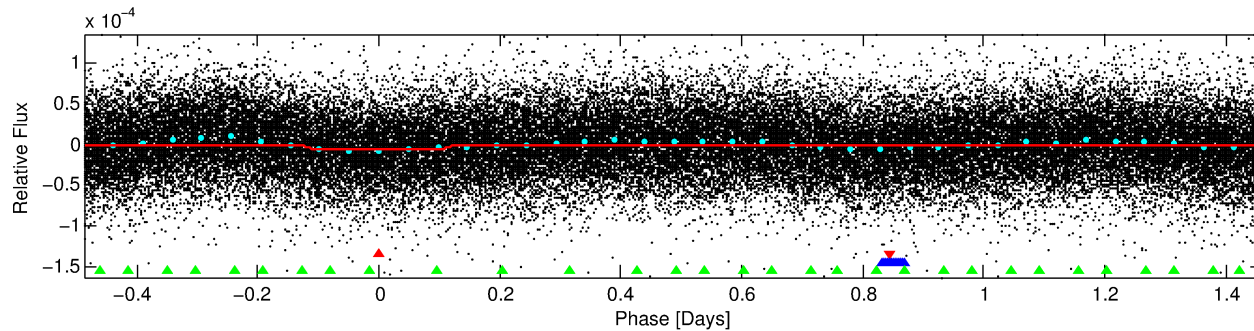
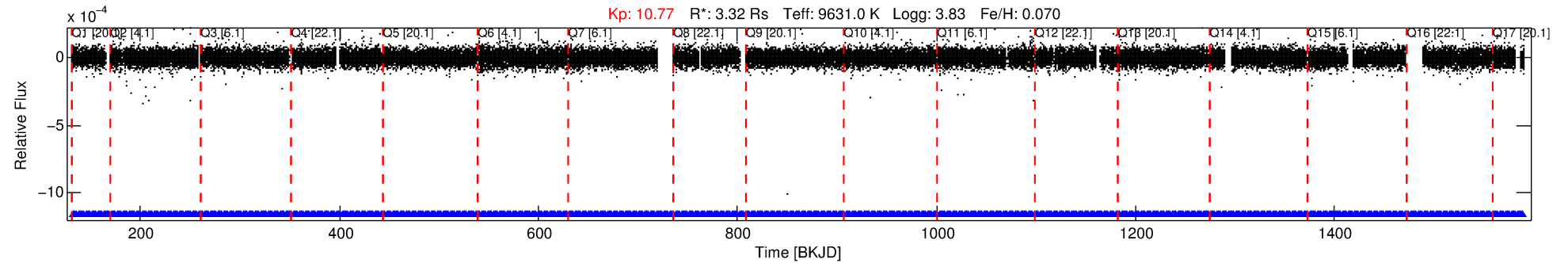
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006380544-01

No Significant Match Found

DV One-Page Summary

KIC: 6380544 Candidate: 1 of 3 Period: 1.948 d



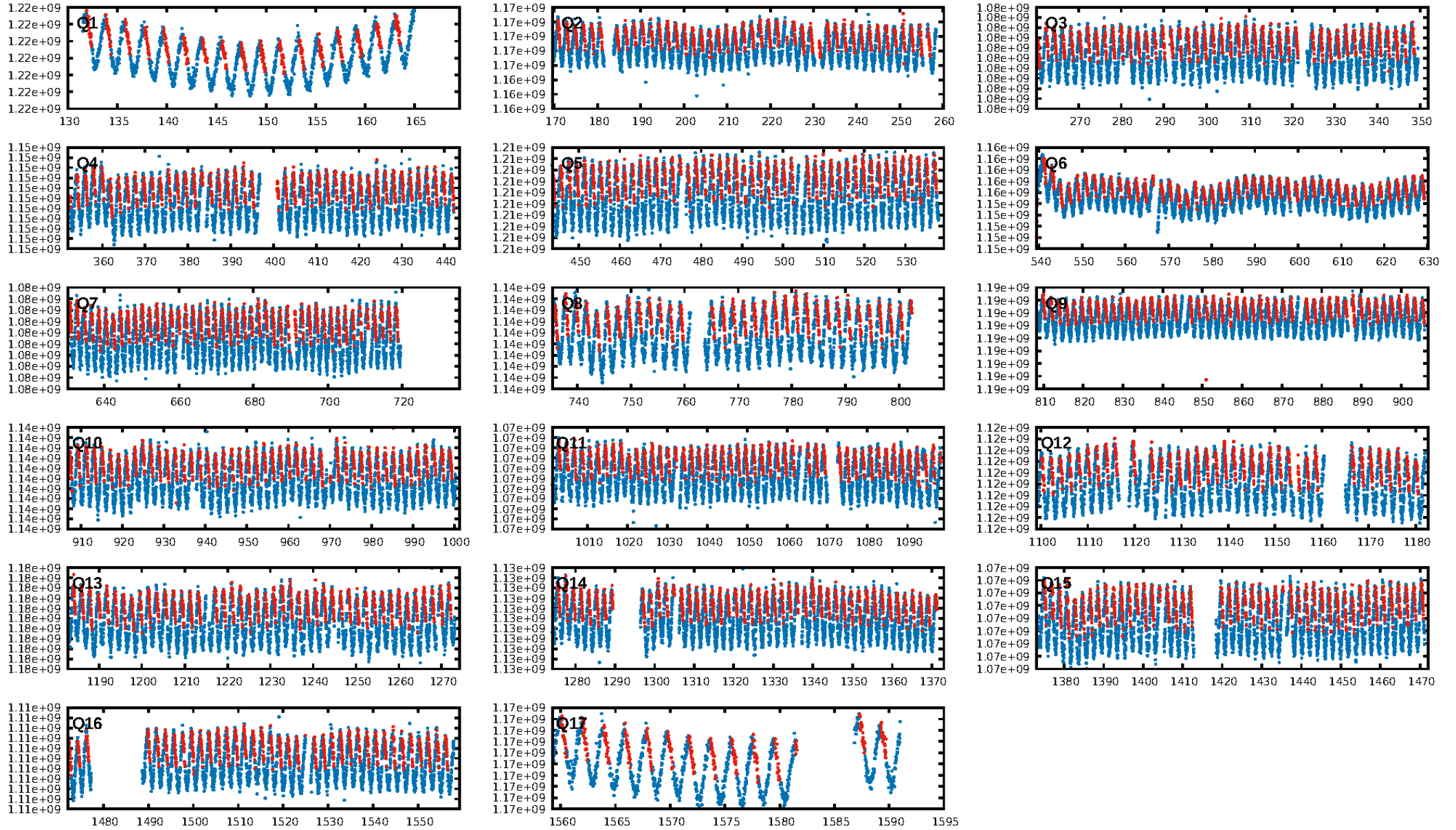
DV Fit Results:

Period = 1.94834 [0.00002] d
Epoch = 132.1282 [0.0045] BKJD
Rp/R* = 0.0024 [0.0004]
a/R* = 2.52 [2.45]
b = 0.30 [3.52]
Seff = 46939.62 [34377.58]
Teq = 3753 [687] K
Rp = 0.88 [0.48] Re
a = 0.0426 [0.0197] AU
Ag = 7.86 [6.19] [1.11σ]
Teffp = 9717 [999] K [4.92σ]

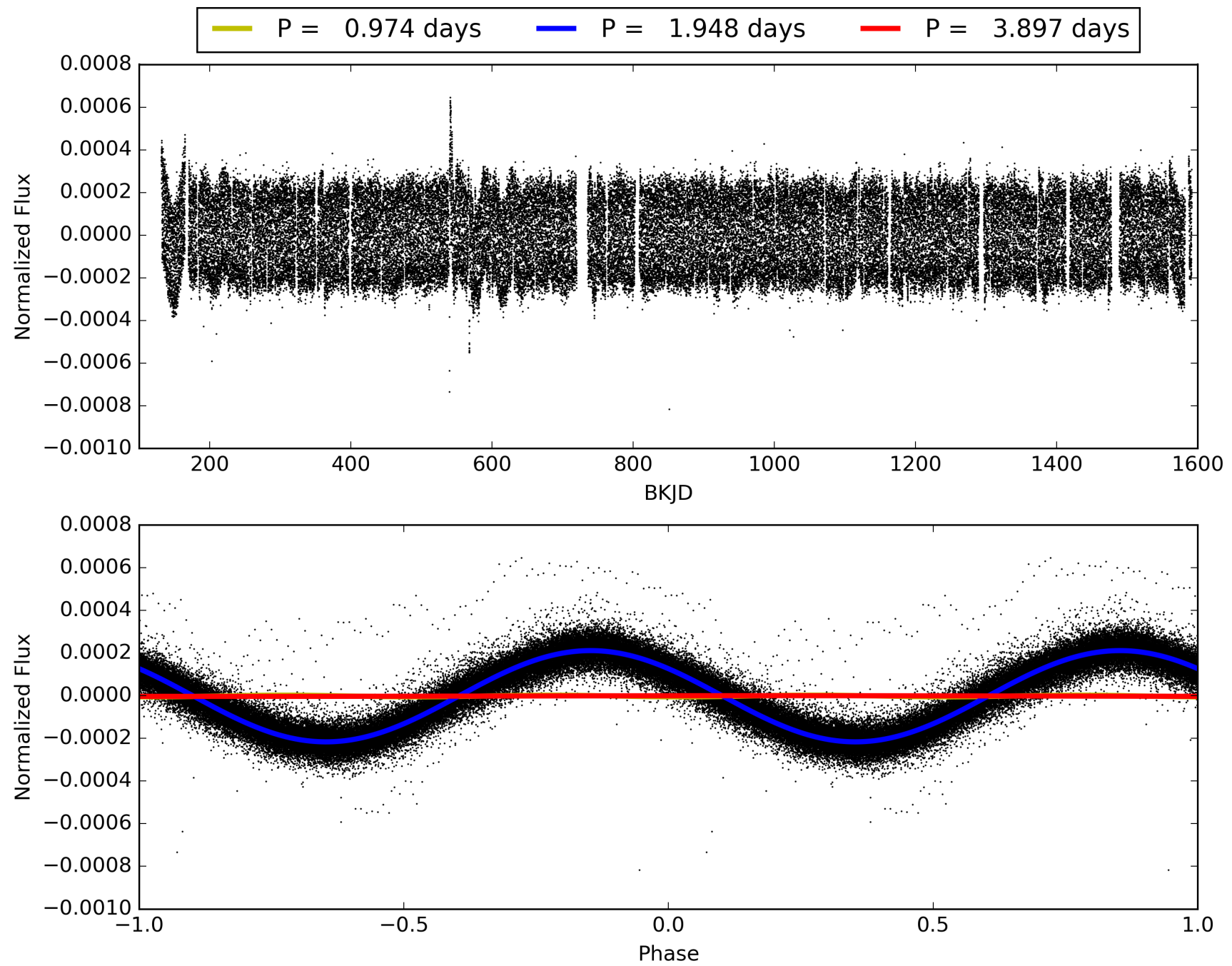
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 9.96e-22
RollingBand-fgt: 1.00 [657/657]
GhostDiagnostic-chr: 5.024
Centroid-sig: N/A
Centroid-so: 2.670 arcsec [1.51σ]
OotOffset-rm: 1.033 arcsec [1.96σ]
KicOffset-rm: 1.298 arcsec [2.71σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.00 [0/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 006380544-01, PDC Light Curves

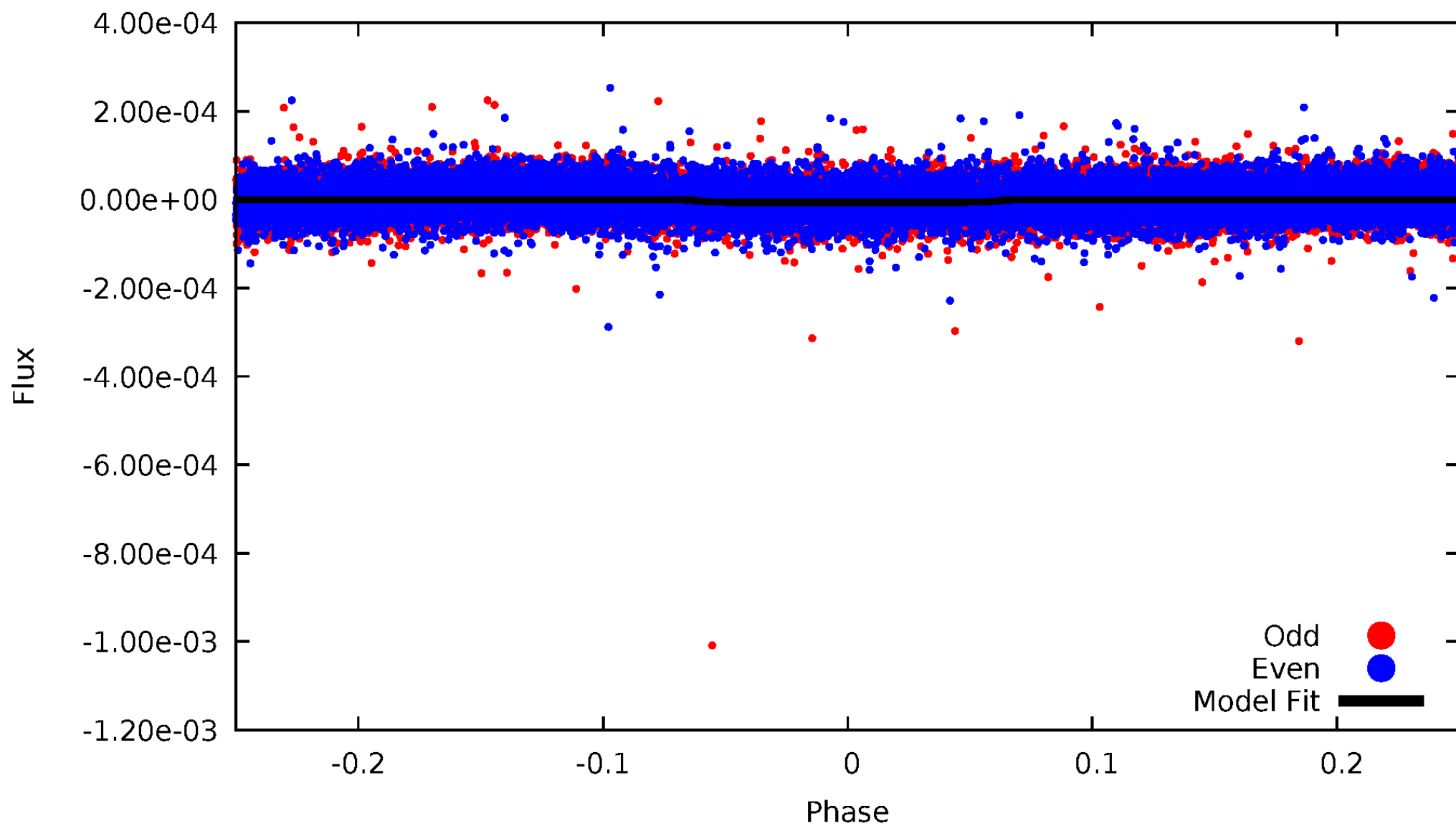


TCE 006380544-01



DV Odd/Even

TCE 006380544-01

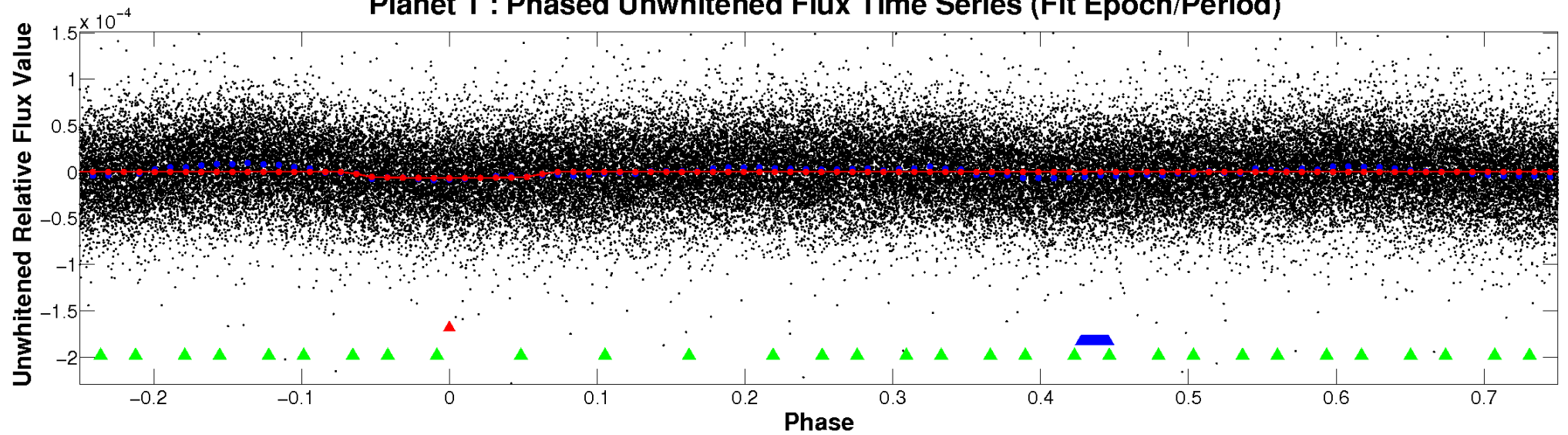


ALT Odd/Even

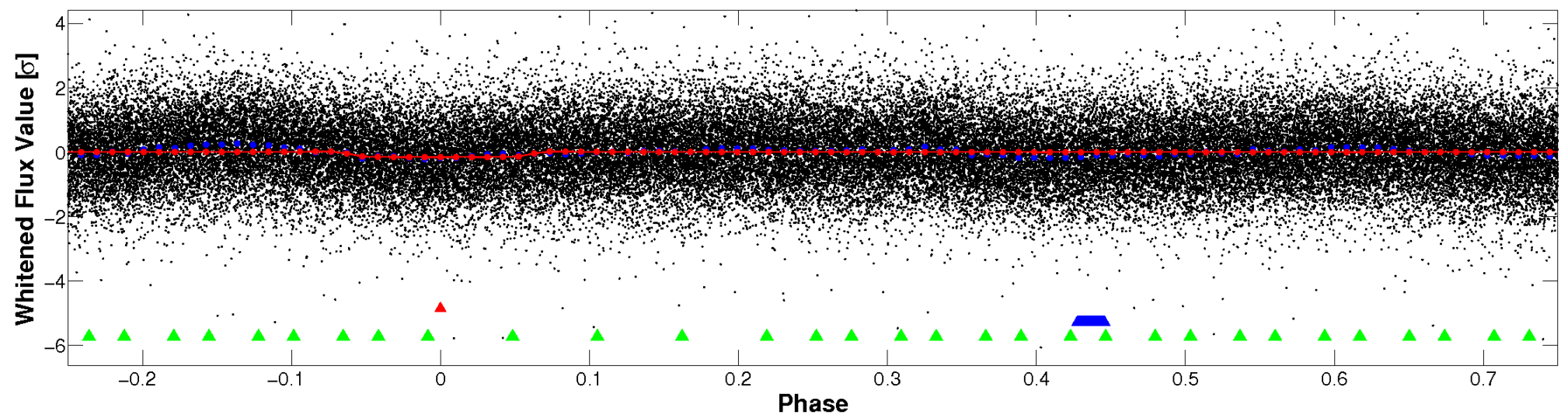
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

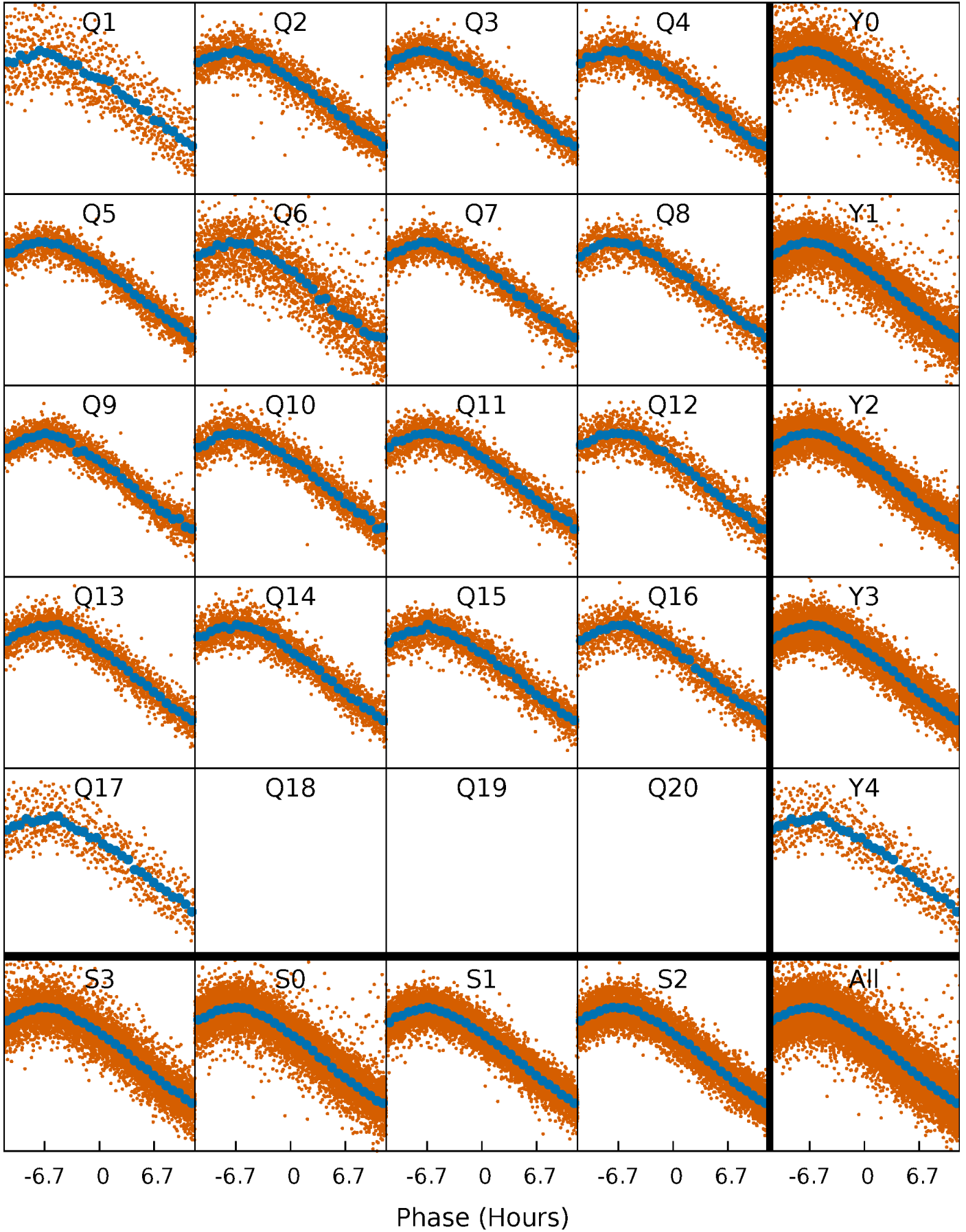


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



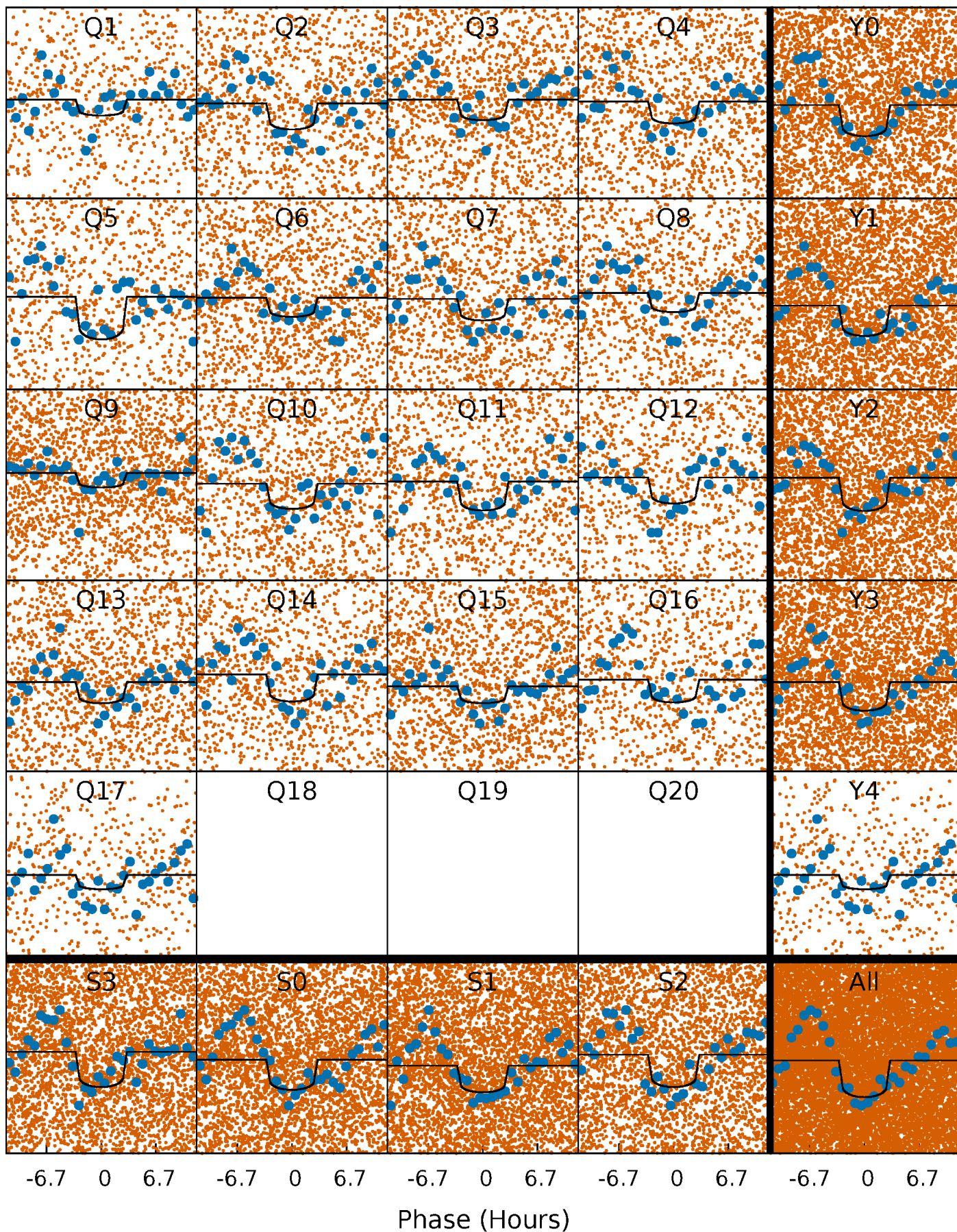
PDC Quarter-Phased Transit Curves

TCE 006380544-01 P= 1.948340 Days $T_0=132.128150$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006380544-01 P= 1.948340 Days $T_0=132.128150$ (BKJD)

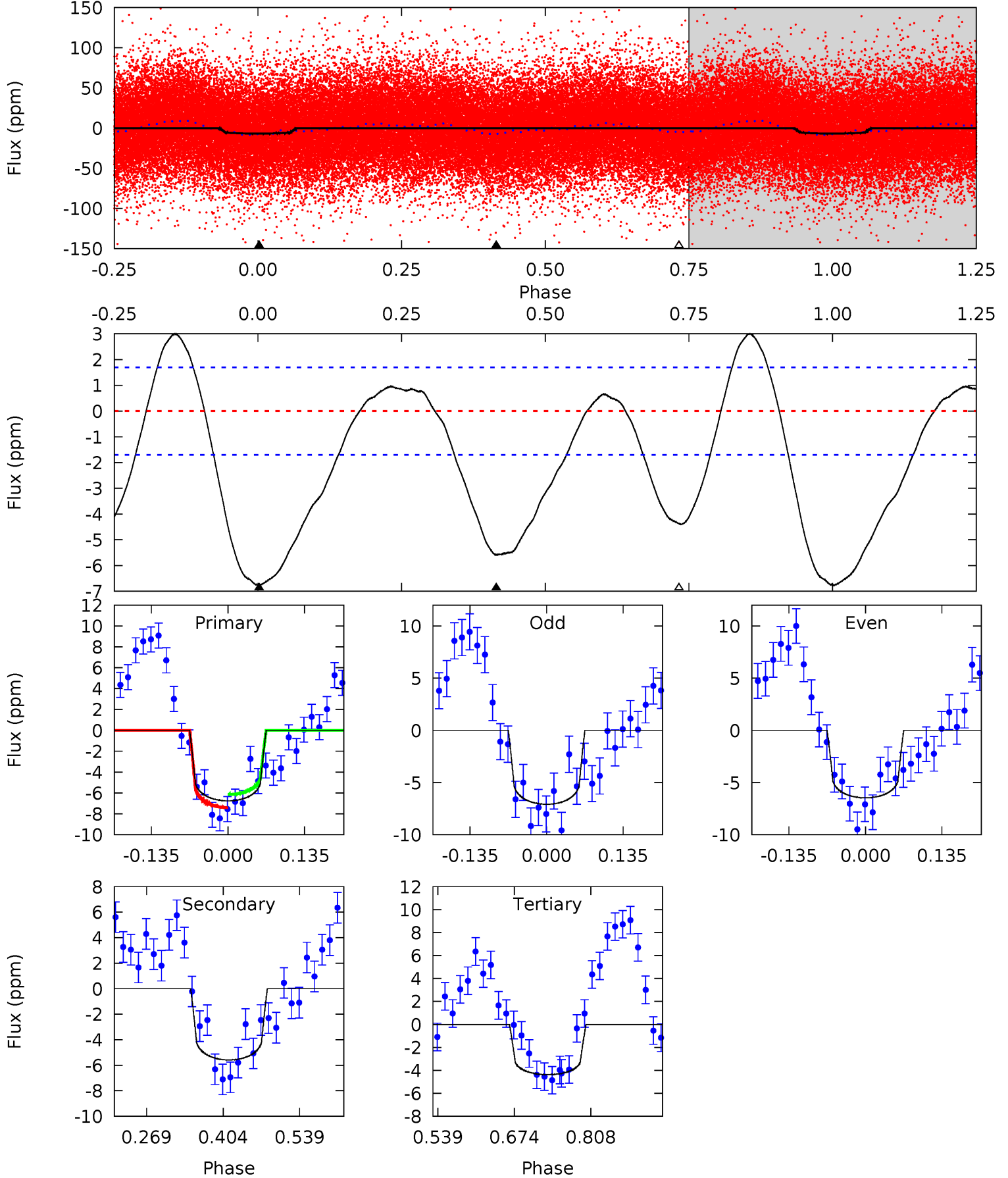


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006380544-01, P = 1.948340 Days, E = 130.179810 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.9	14.8	11.6	0	4.50	1.50	5.24	6.34	17.9	3.21	14.8	0.82	1.01	0.31	1.68



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006380544

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	9631^{+269}_{-500}	$3.828^{+0.397}_{-0.132}$	$0.070^{+0.150}_{-0.750}$	$3.321^{+0.869}_{-1.739}$	$2.710^{+0.327}_{-0.982}$	$0.104^{+0.400}_{-0.042}$
	+3%/-5%	+10%/-3%	+214%/-1071%	+26%/-52%	+12%/-36%	+384%/-40%
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 006380544-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-6 ± 0	$0.80^{+0.23}_{-0.22}$	5081^{+426}_{-626}	9200^{+1492}_{-1021}	$8.357^{+6.568}_{-3.201}$
Alt.	N/A	N/A	N/A	N/A	N/A

T_{max} = Theoretical Maximum Planetary Temperature
 T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
 A_{obs} = Observed Albedo (Assuming T=0)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

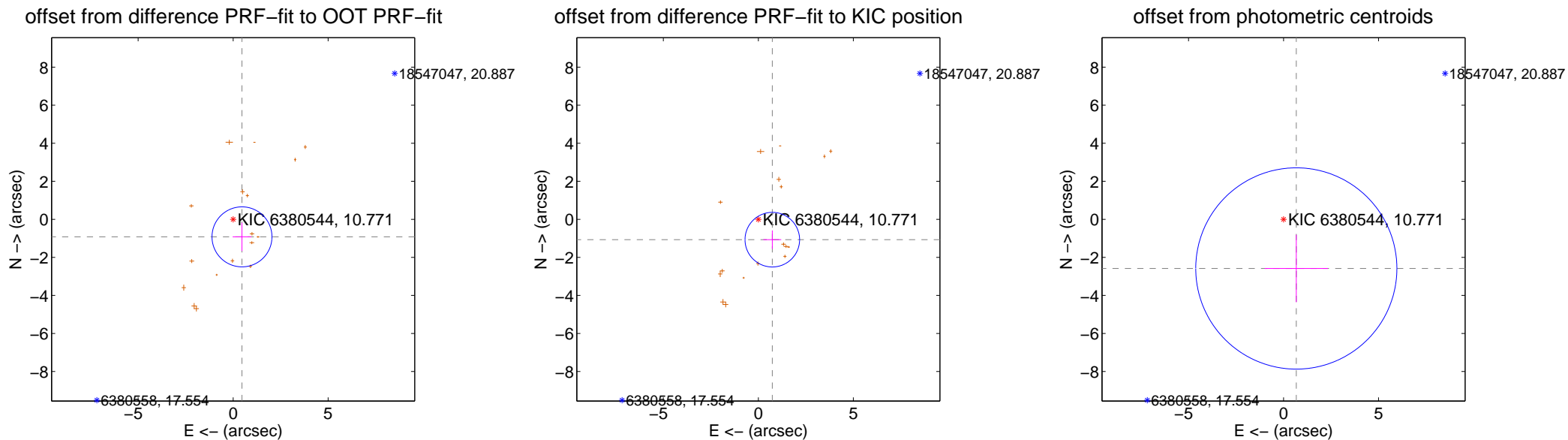
DV Centroid Data

Supplemental centroid analysis for 006380544-01. **Kepler magnitude: 10.77.** Transit SNR 12.50

There are 0 quarters with good PRF difference image offsets

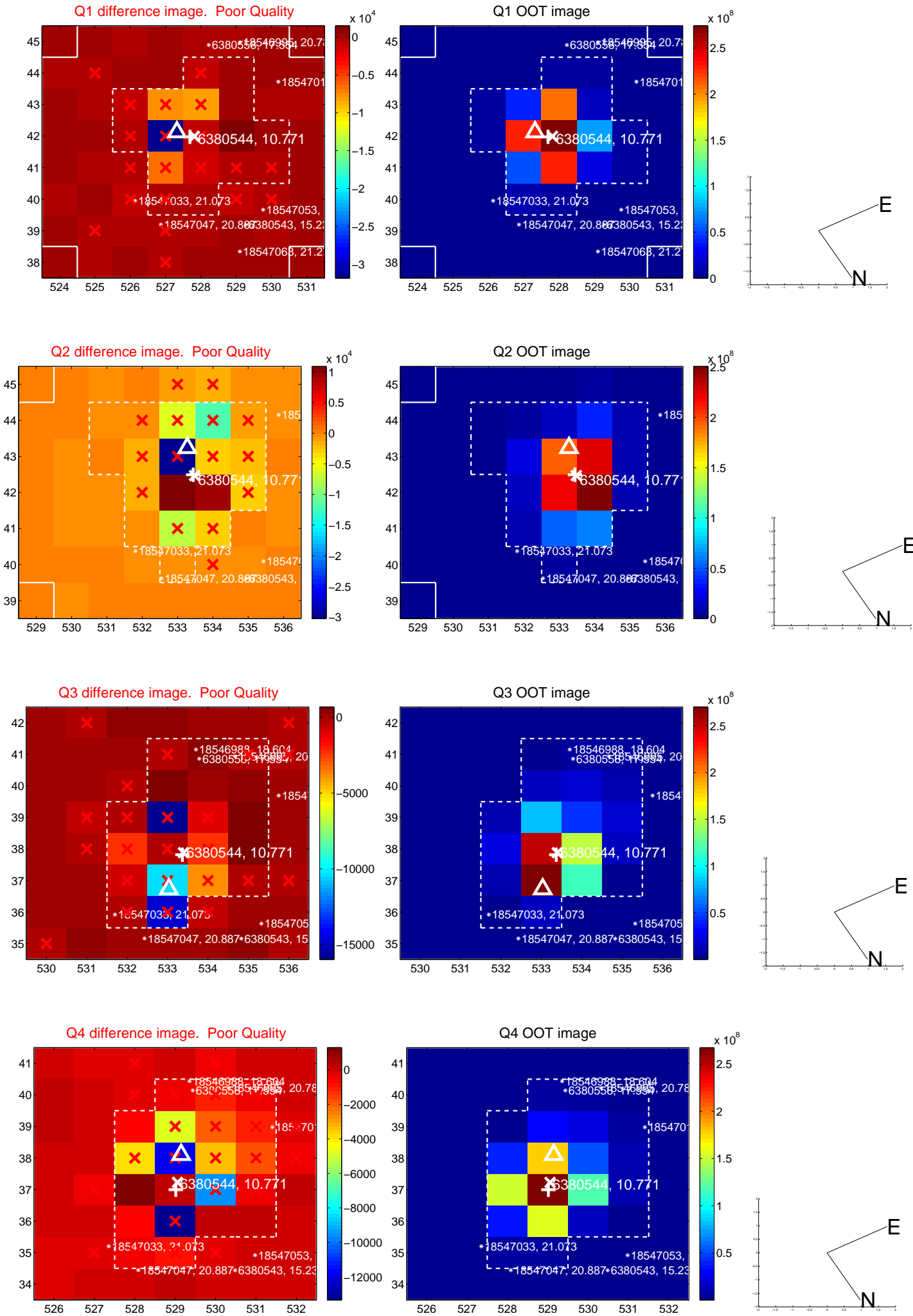
The direct PRF centroid is offset from the target star catalog position by about 0.58 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.033 ± 0.526	1.96	-0.466 ± 0.489	-0.922 ± 0.744
PRF-fit source offset from KIC position	1.298 ± 0.479	2.71	-0.735 ± 0.470	-1.069 ± 0.483
photometric centroid source offset	2.67 ± 1.76	1.51	-0.67 ± 1.66	-2.58 ± 1.77

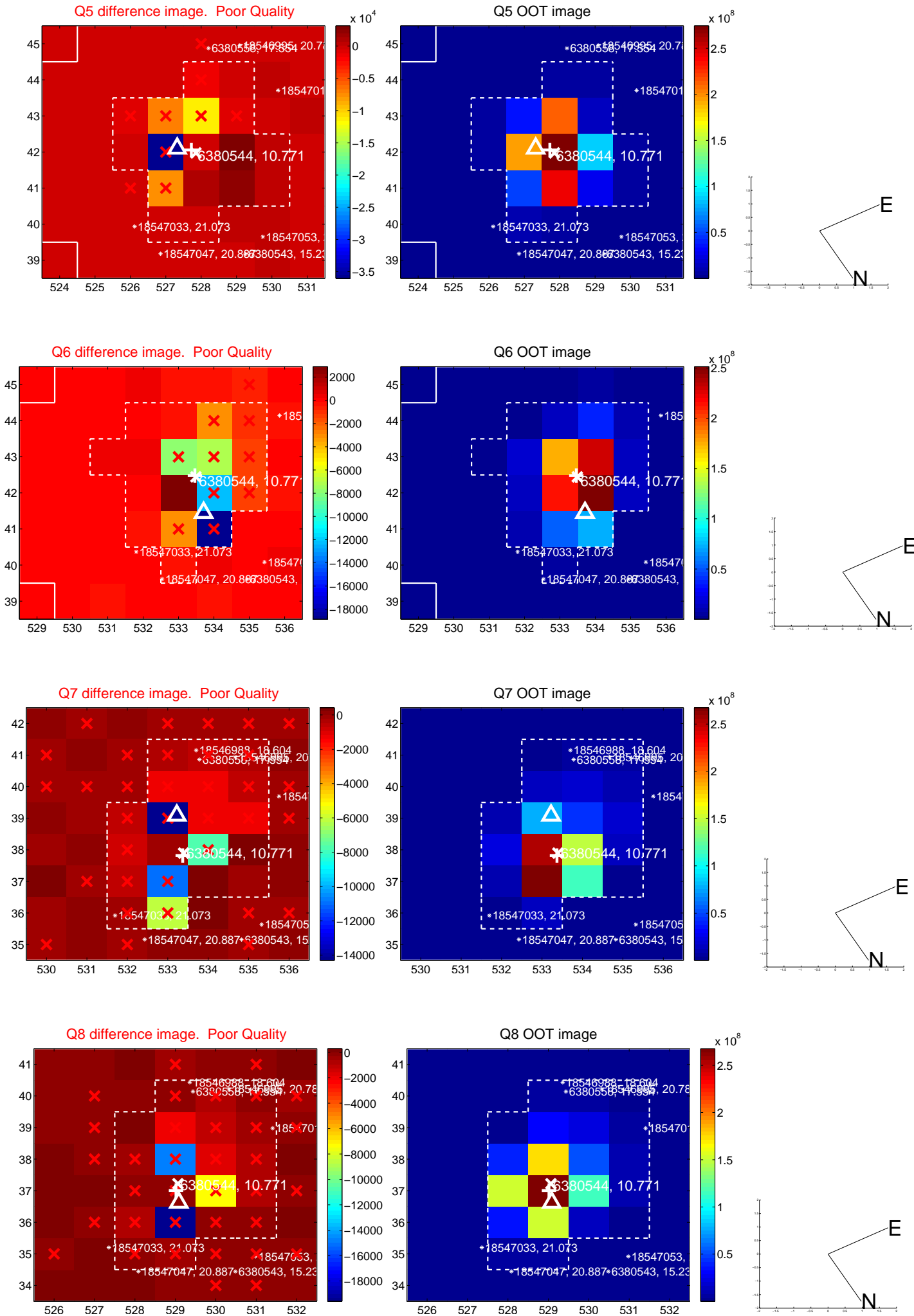


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

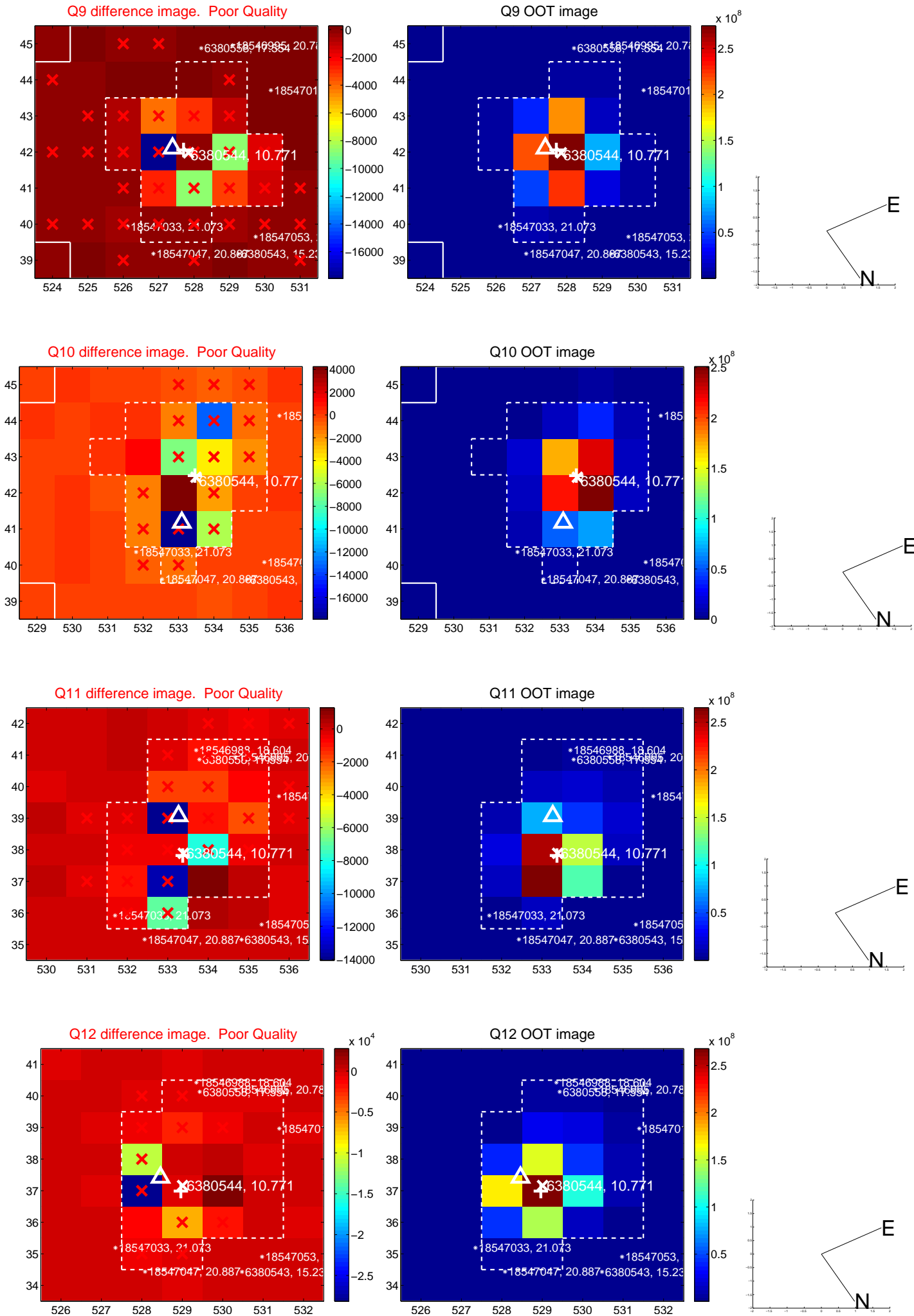
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



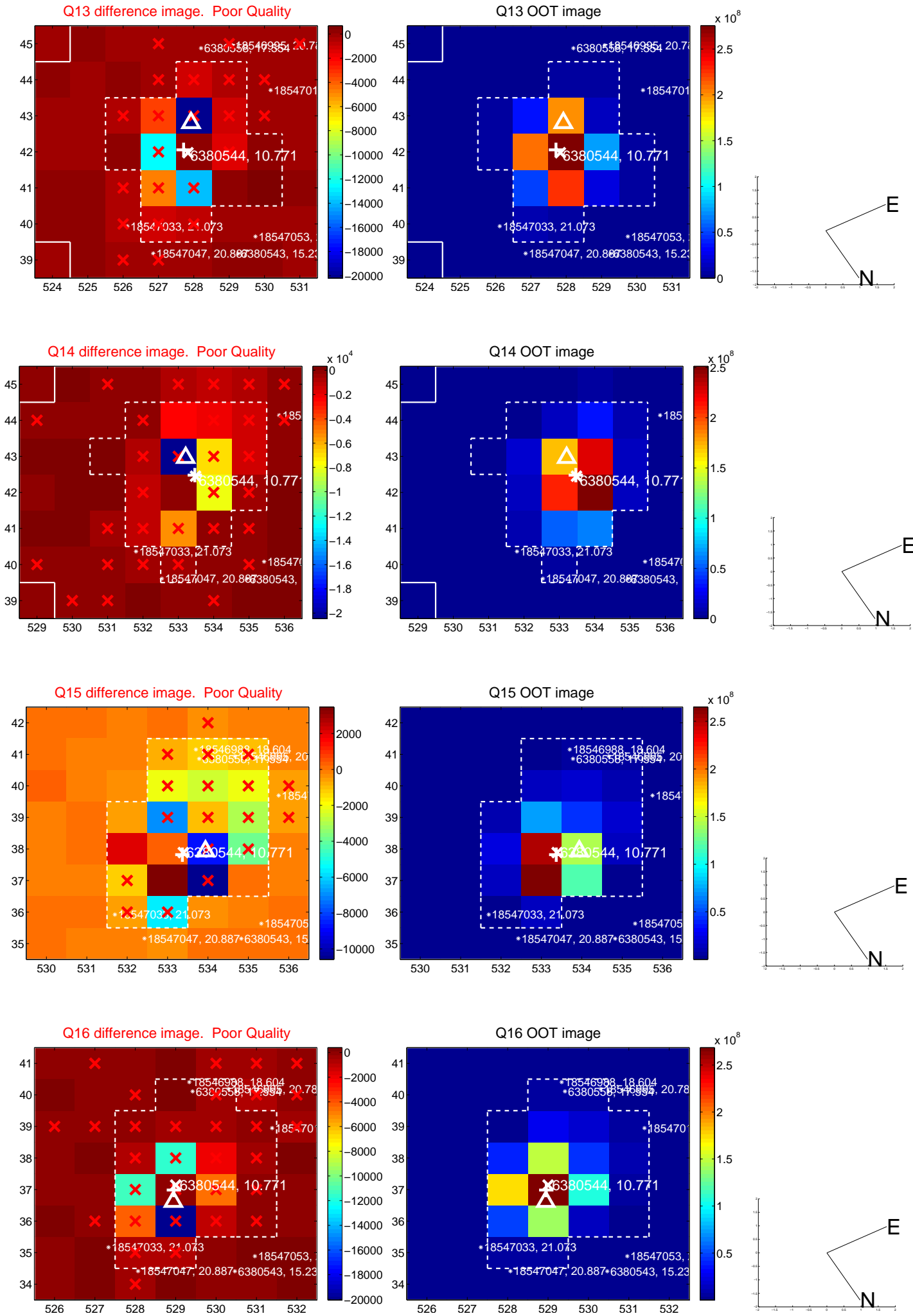
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



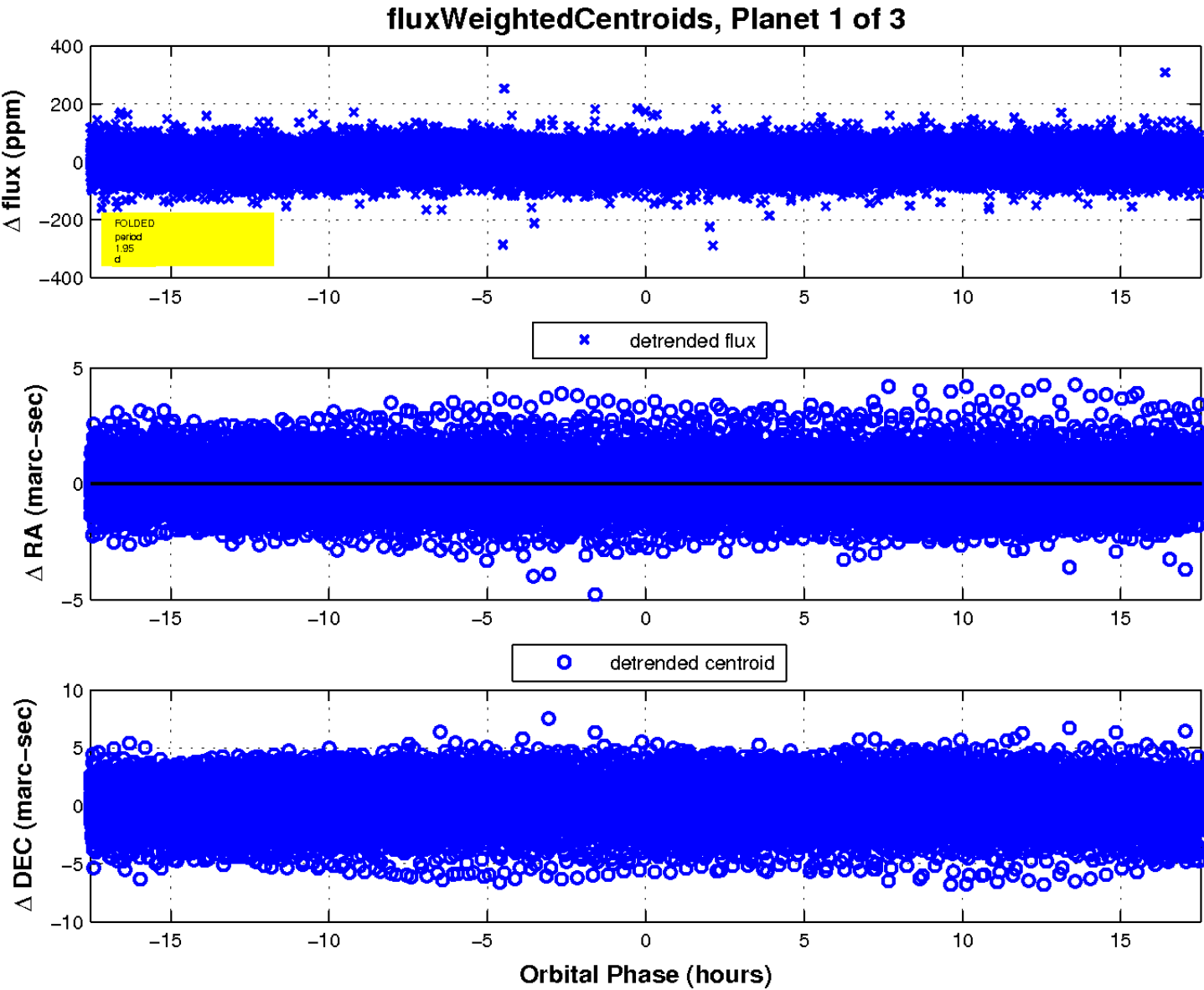
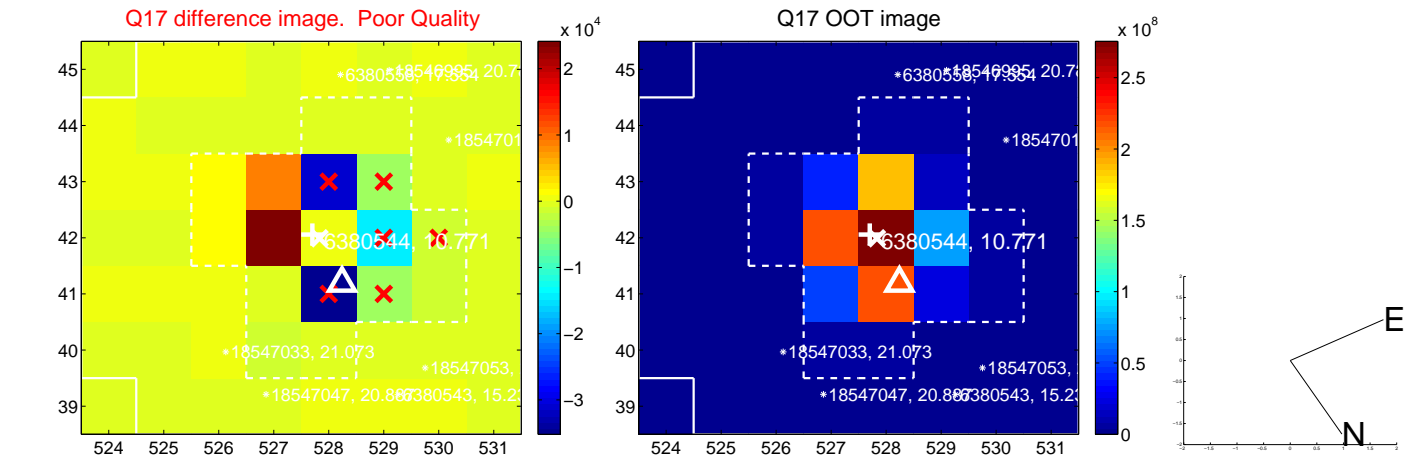
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

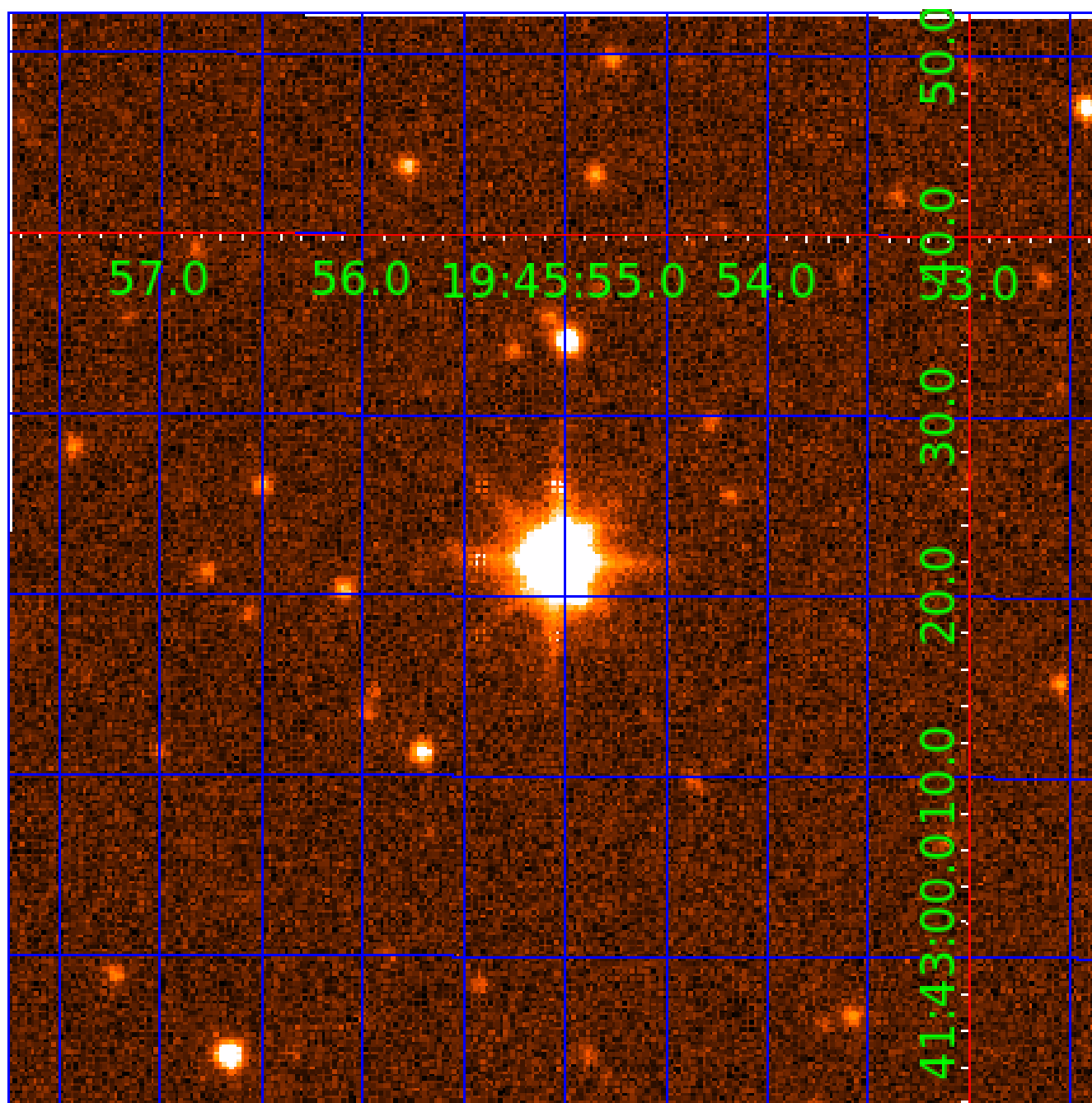


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006380544

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})
006380544-01	OBS	No	1.948340	132.128150	6.6	5.845	11.9	12.5	3.32	9631	0.88	46939.62
006380544-02	OBS	No	1.948388	132.960774	5.8	7.663	12.1	13.2	3.32	9631	0.89	46938.07
006380544-03	OBS	No	46.649354	174.910460	53.8	1.734	12.5	5.9	3.32	9631	2.76	680.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006380544-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006380544-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_SATURATED
006380544-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

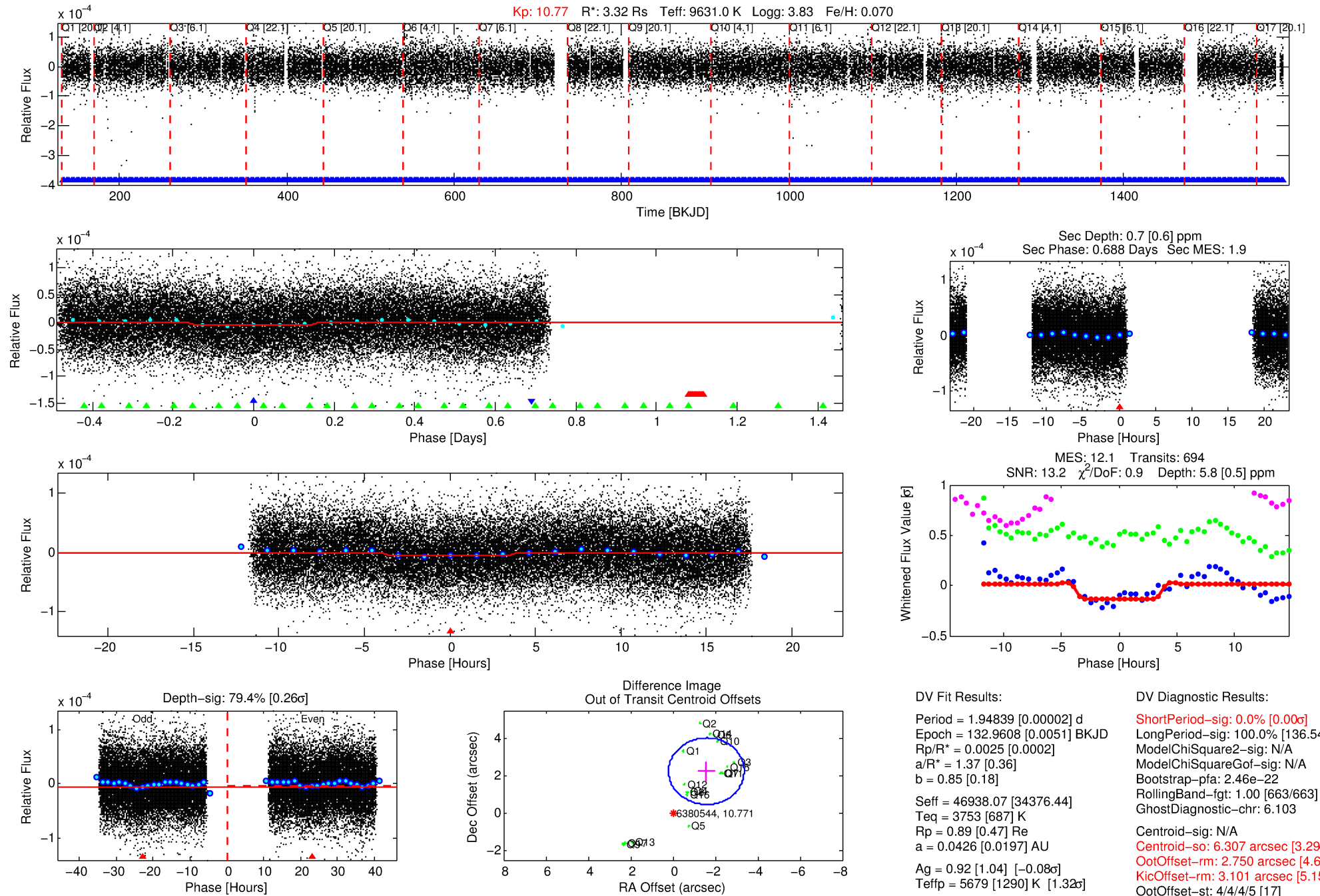
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006380544-02

No Significant Match Found

DV One-Page Summary

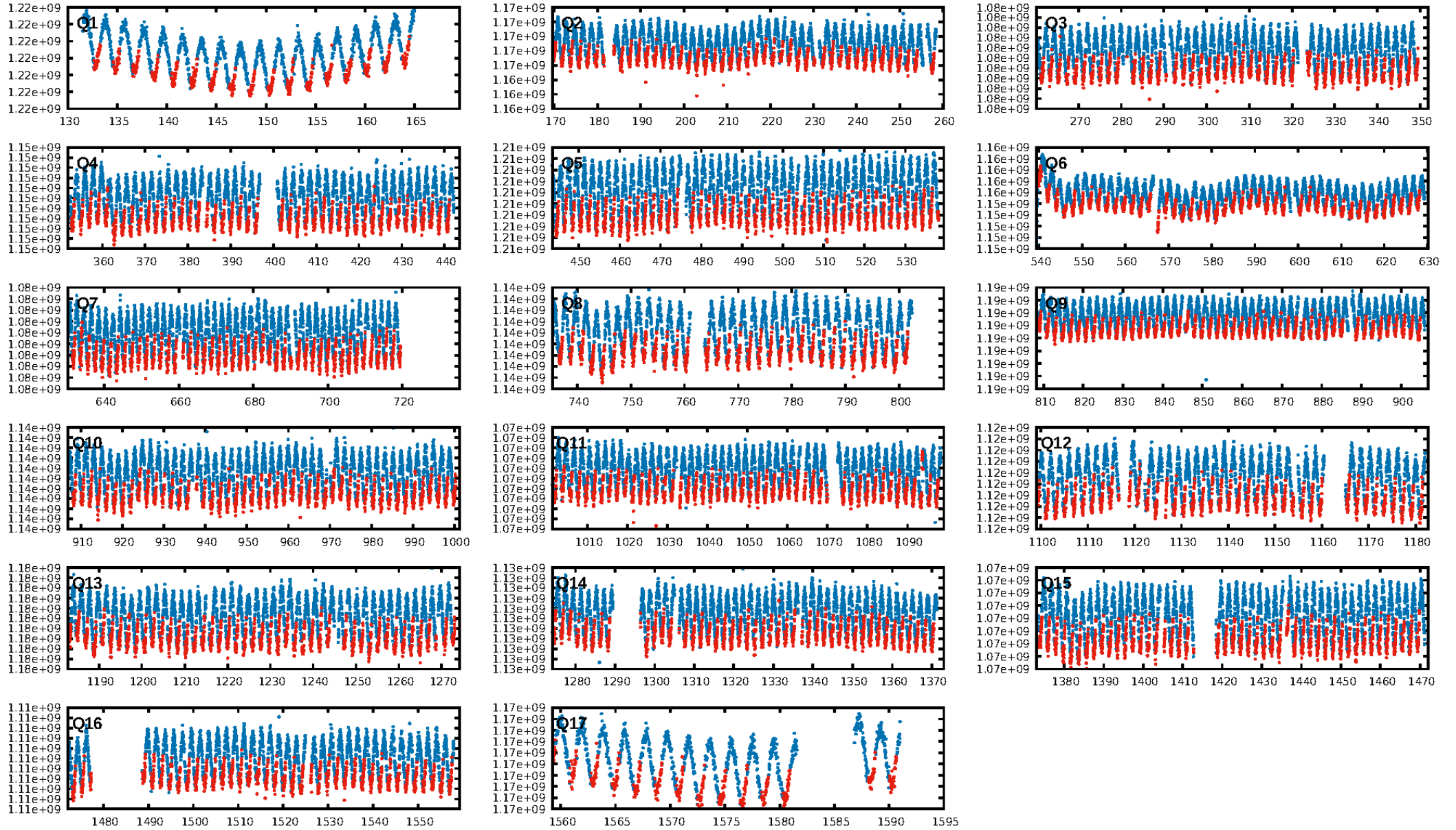
KIC: 6380544 Candidate: 2 of 3 Period: 1.948 d



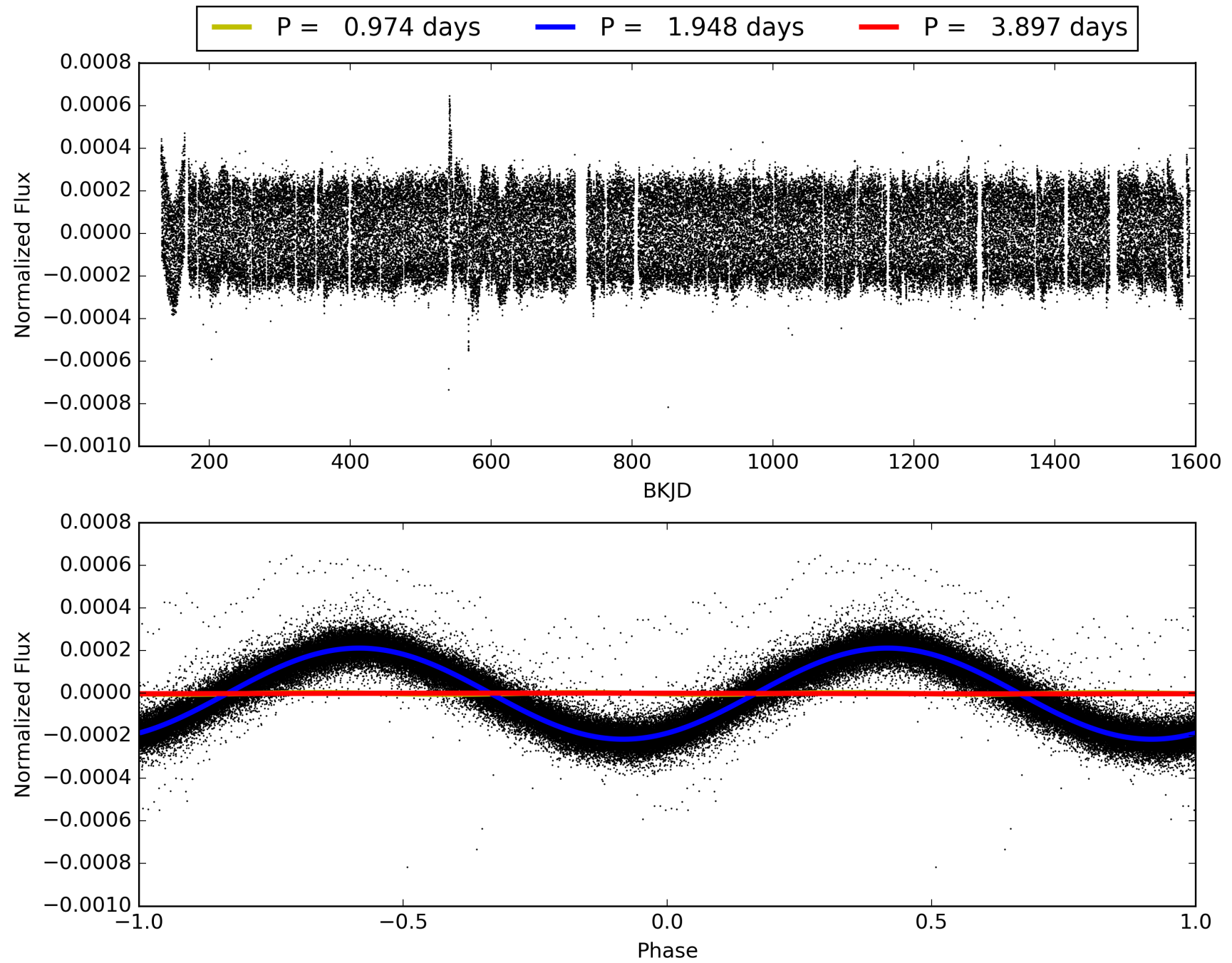
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 02:12:36 Z

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

TCE 006380544-02, PDC Light Curves

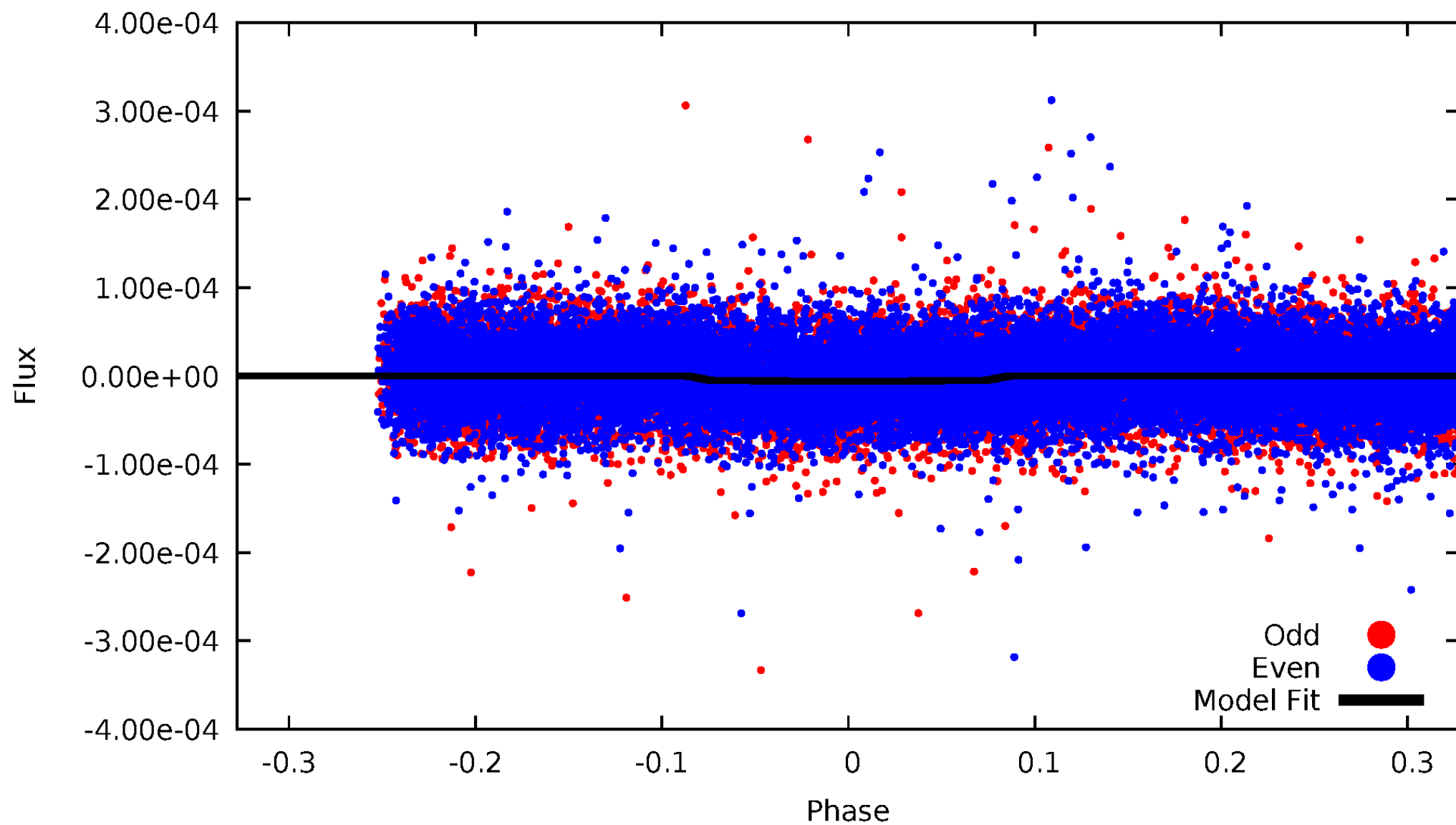


TCE 006380544-02



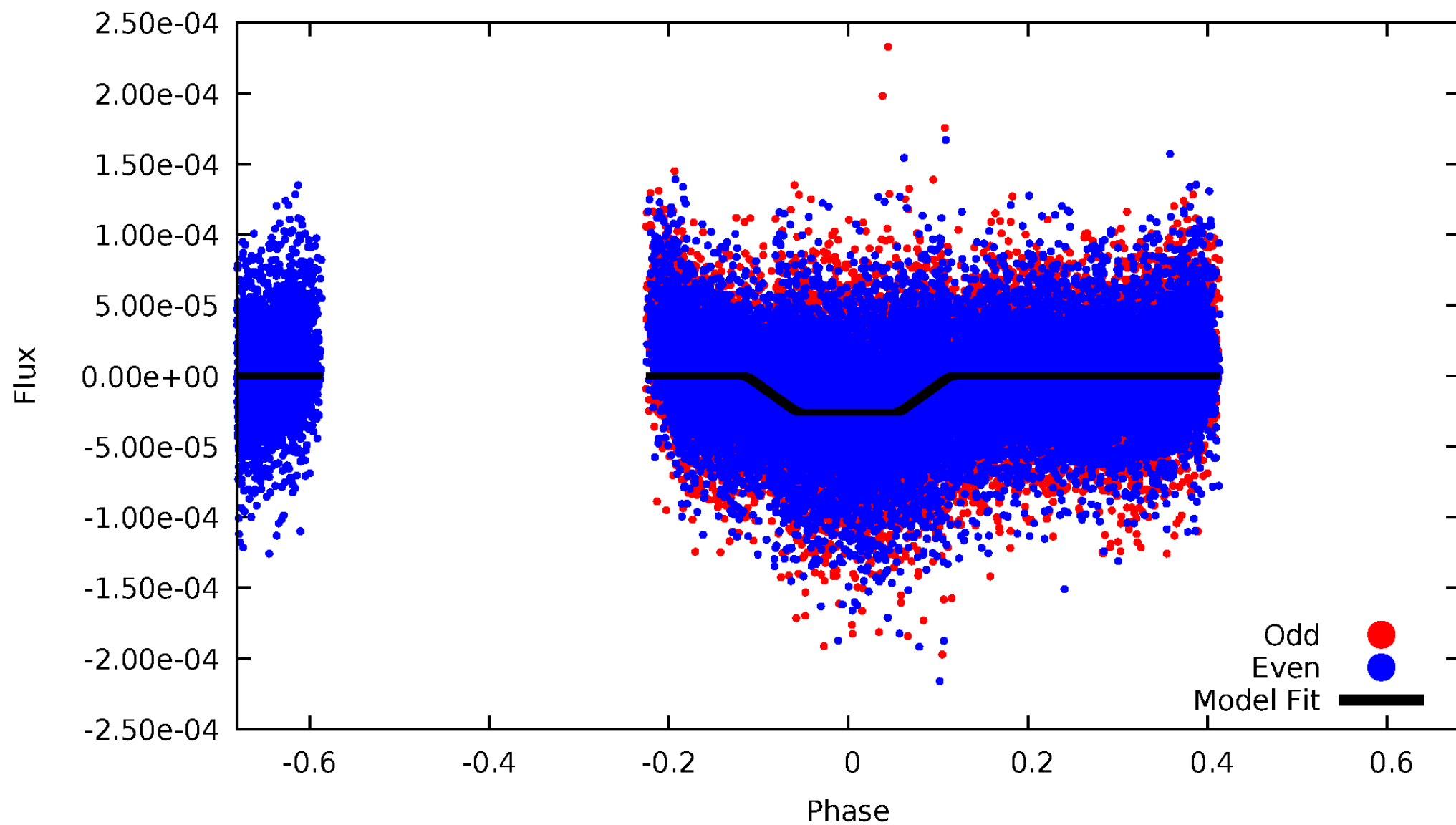
DV Odd/Even

TCE 006380544-02



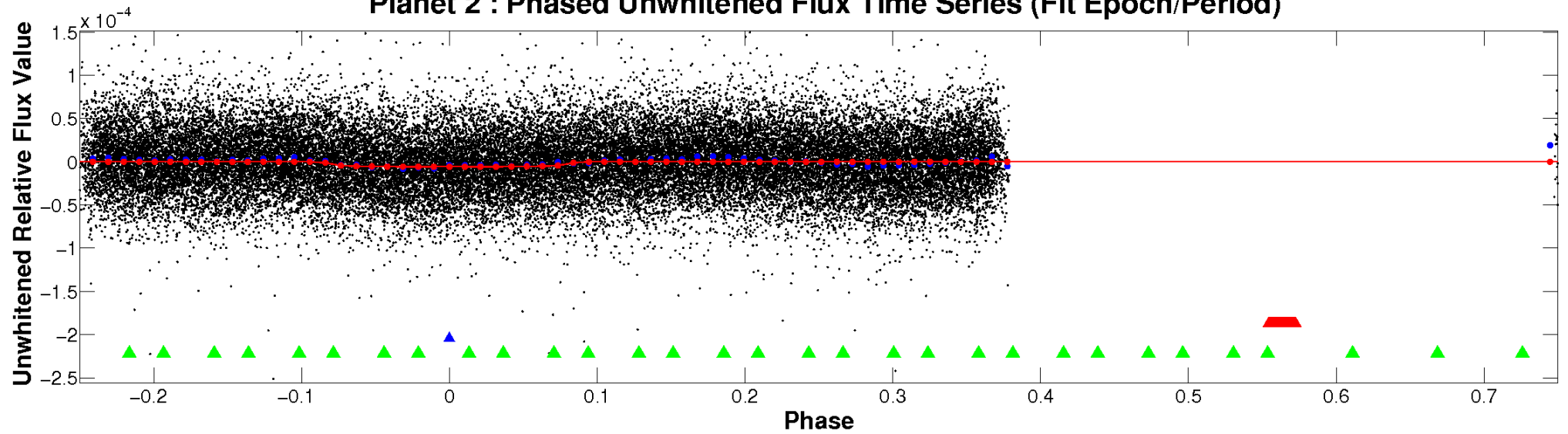
ALT Odd/Even

TCE 006380544-02

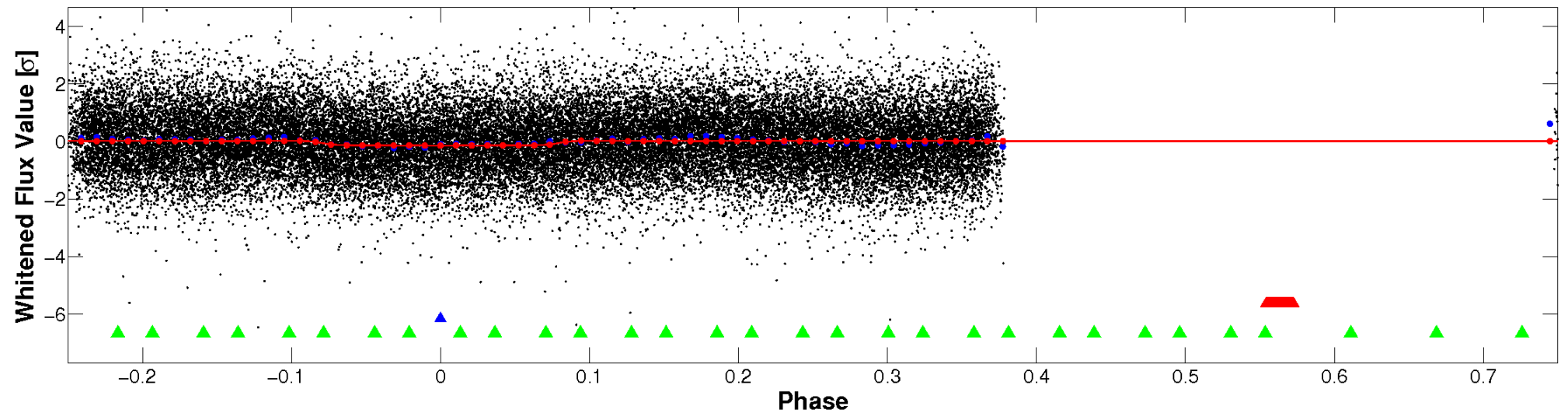


Non-Whitened Vs. Whitened Light Curve

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

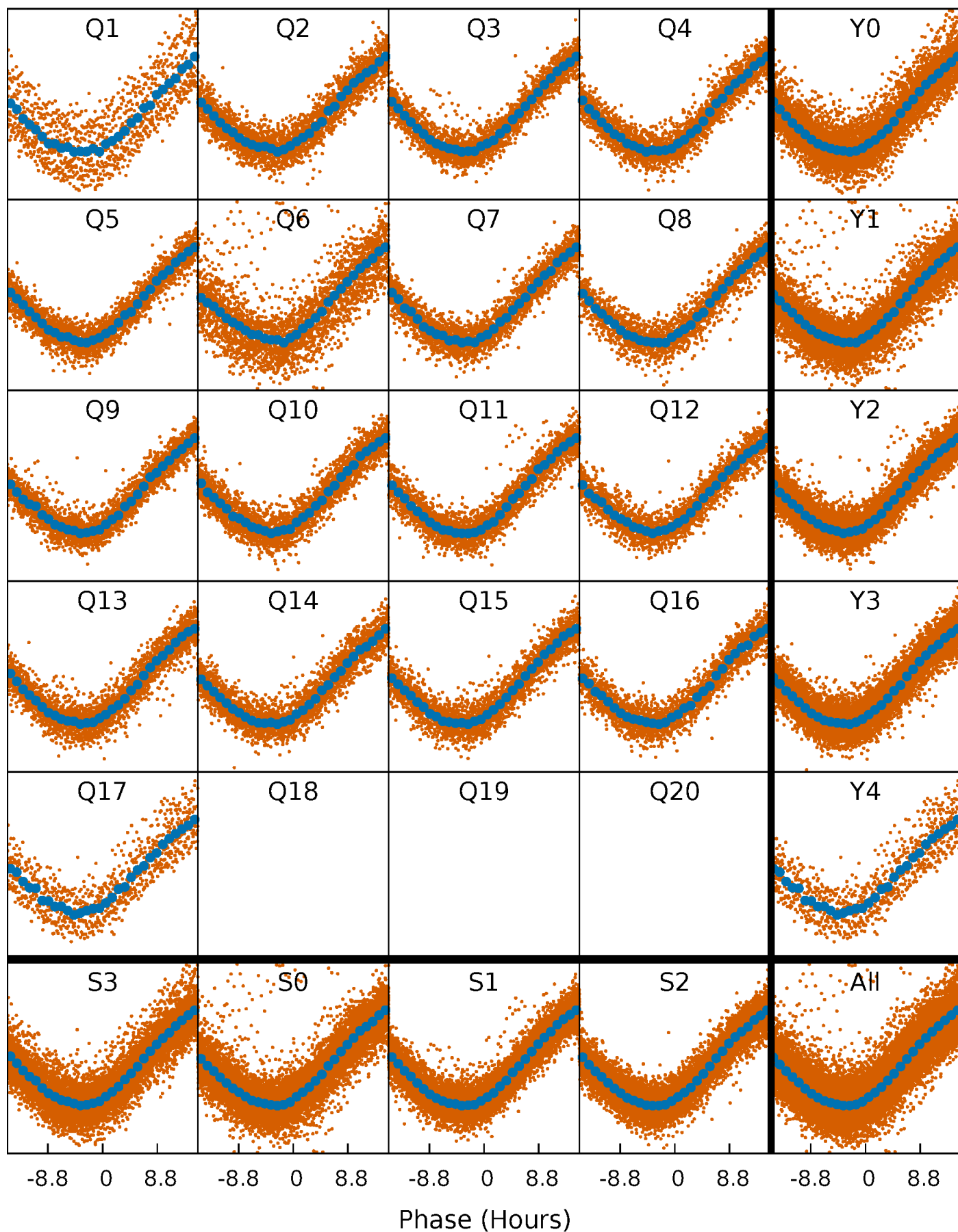


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



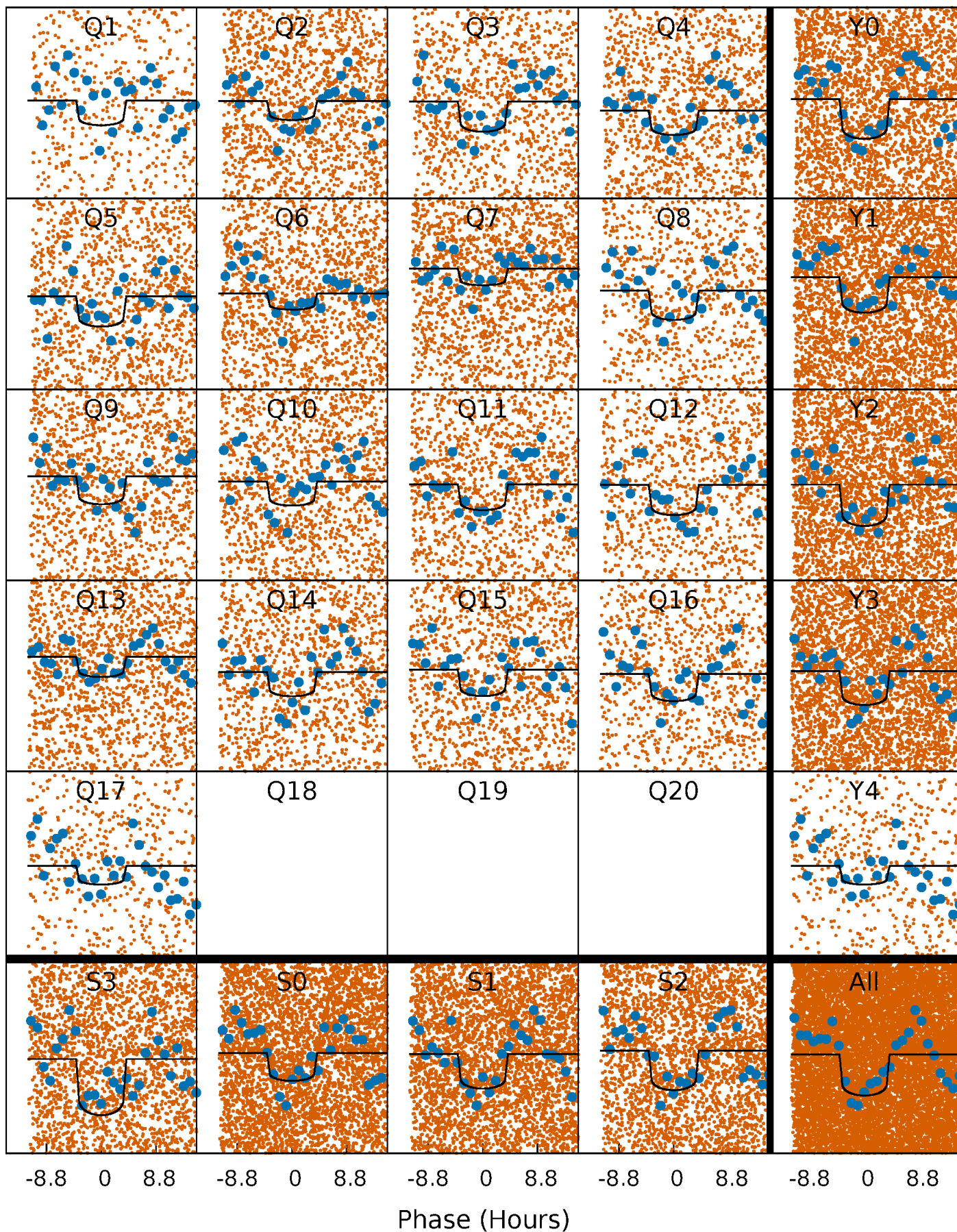
PDC Quarter-Phased Transit Curves

TCE 006380544-02 P= 1.948388 Days $T_0=132.960774$ (BKJD)



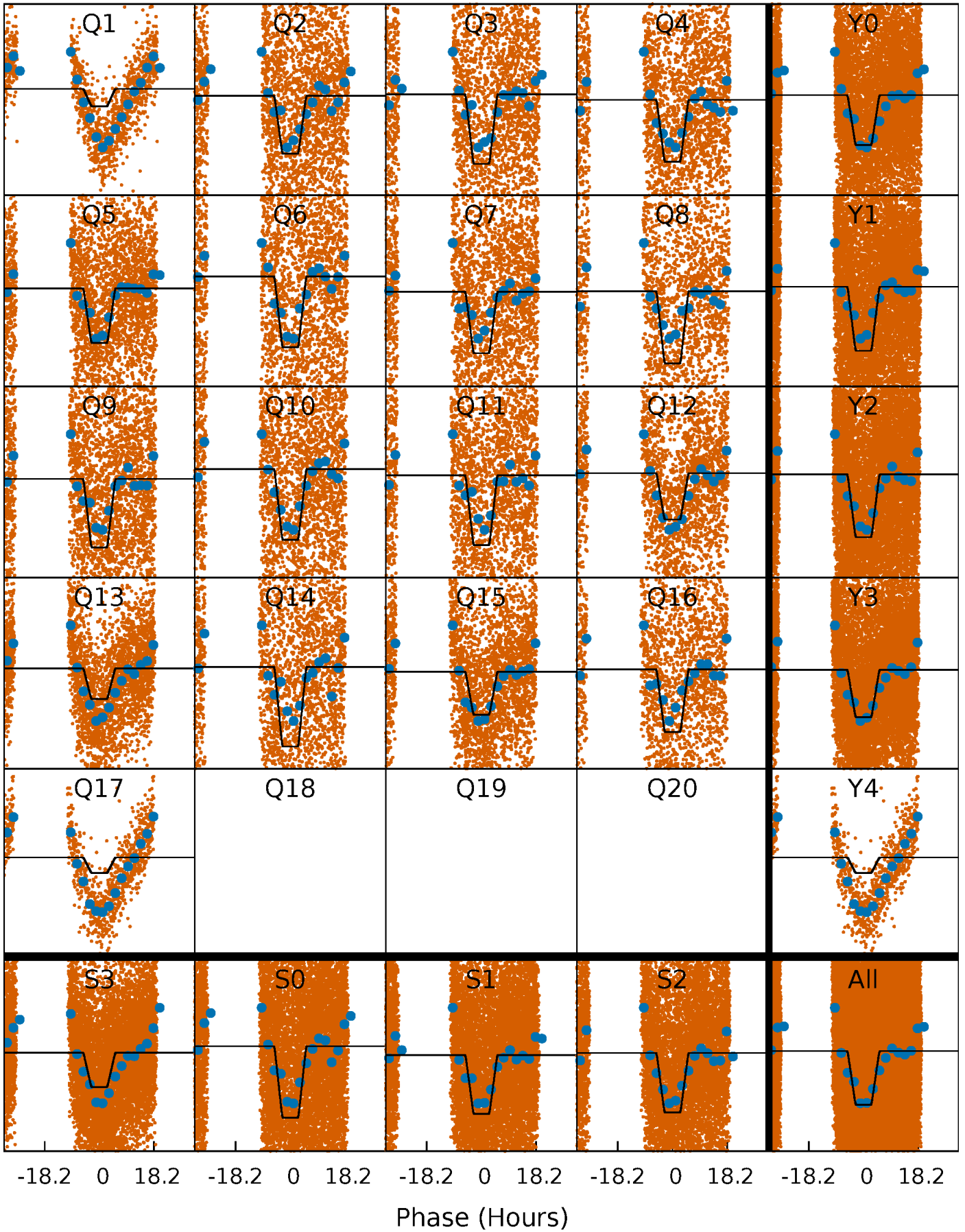
DV Quarter-Phased Transit Curves

TCE 006380544-02 $P = 1.948388$ Days $T_0 = 132.960774$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

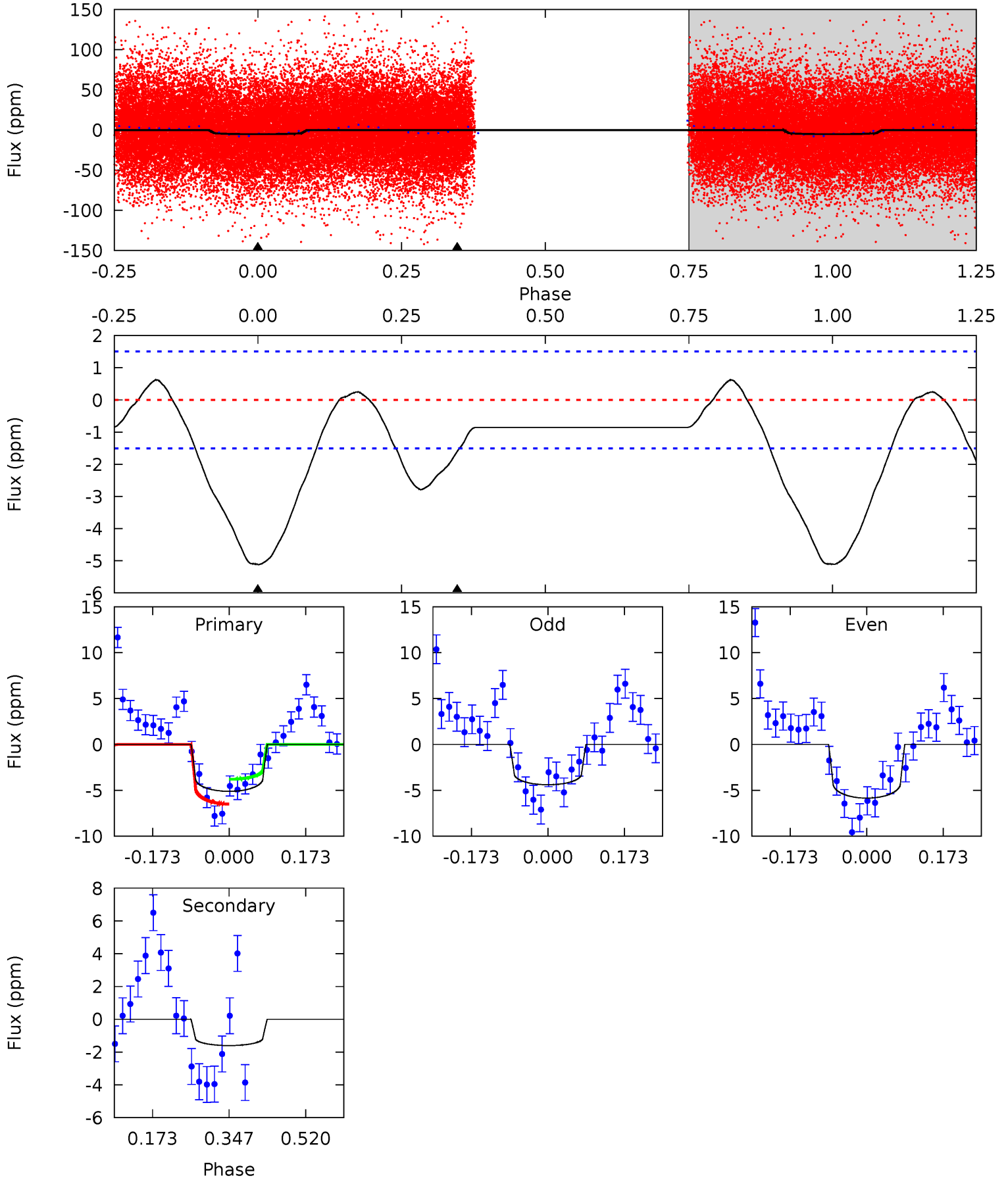
TCE 006380544-02 P= 1.948409 Days $T_0=132.892808$ (BKJD)



DV Model-Shift Uniqueness Test

006380544-02, P = 1.948388 Days, E = 131.012386 Days

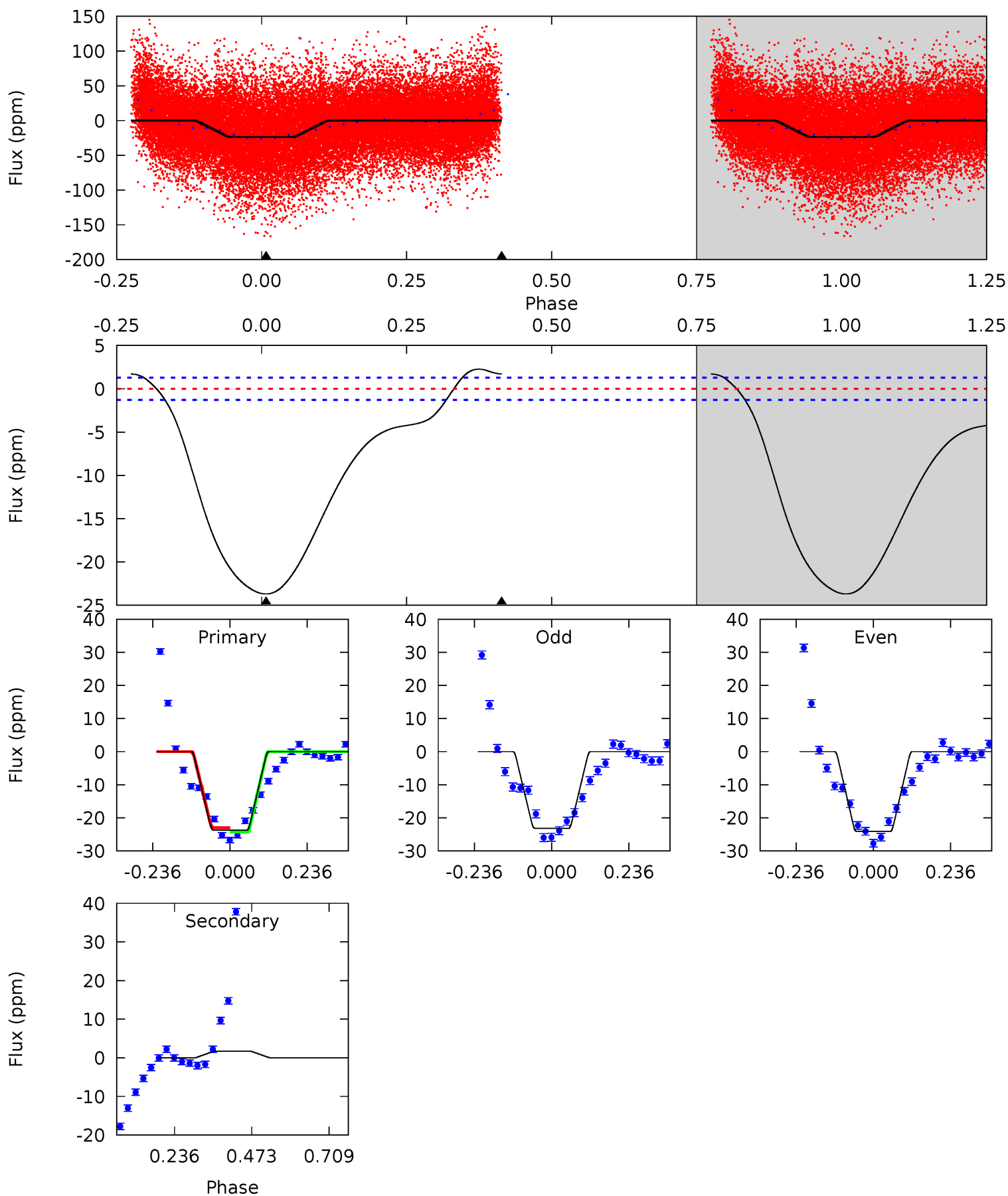
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.1	4.73	0	0	4.45	1.36	1.33	15.1	15.1	4.73	4.73	2.14	0.90	0.11	4.15



Alt Model-Shift Uniqueness Test

006380544-02, P = 1.948409 Days, E = 130.944399 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
80.4	-5.80	0	0	4.38	1.18	10.1	80.4	80.4	-5.80	-5.80	1.57	1.14	0.09	2.22



Stellar Parameters For KIC 006380544

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	9631^{+269}_{-500}	$3.828^{+0.397}_{-0.132}$	$0.070^{+0.150}_{-0.750}$	$3.321^{+0.869}_{-1.739}$	$2.710^{+0.327}_{-0.982}$	$0.104^{+0.400}_{-0.042}$
	+3%/-5%	+10%/-3%	+214%/-1071%	+26%/-52%	+12%/-36%	+384%/-40%
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 006380544-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-2 ± 0	$0.84^{+0.17}_{-0.23}$	5081^{+411}_{-649}	6124^{+543}_{-542}	$2.210^{+1.552}_{-0.790}$
Alt.	2 ± 0	$1.77^{+0.33}_{-0.41}$	5090^{+464}_{-583}	-5125^{+246}_{-224}	$-0.544^{+0.161}_{-0.348}$

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 $A_{obs} \gg 1.0$

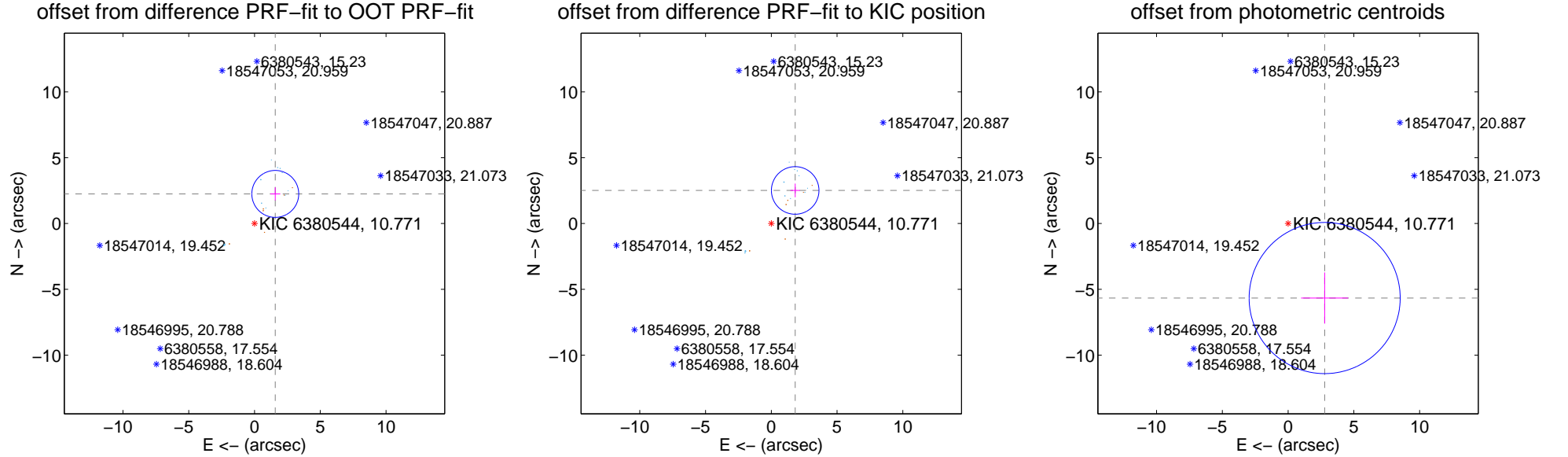
DV Centroid Data

Supplemental centroid analysis for 006380544-02. **Kepler magnitude: 10.77.** Transit SNR 13.24

There are 11 quarters with good PRF difference image offsets

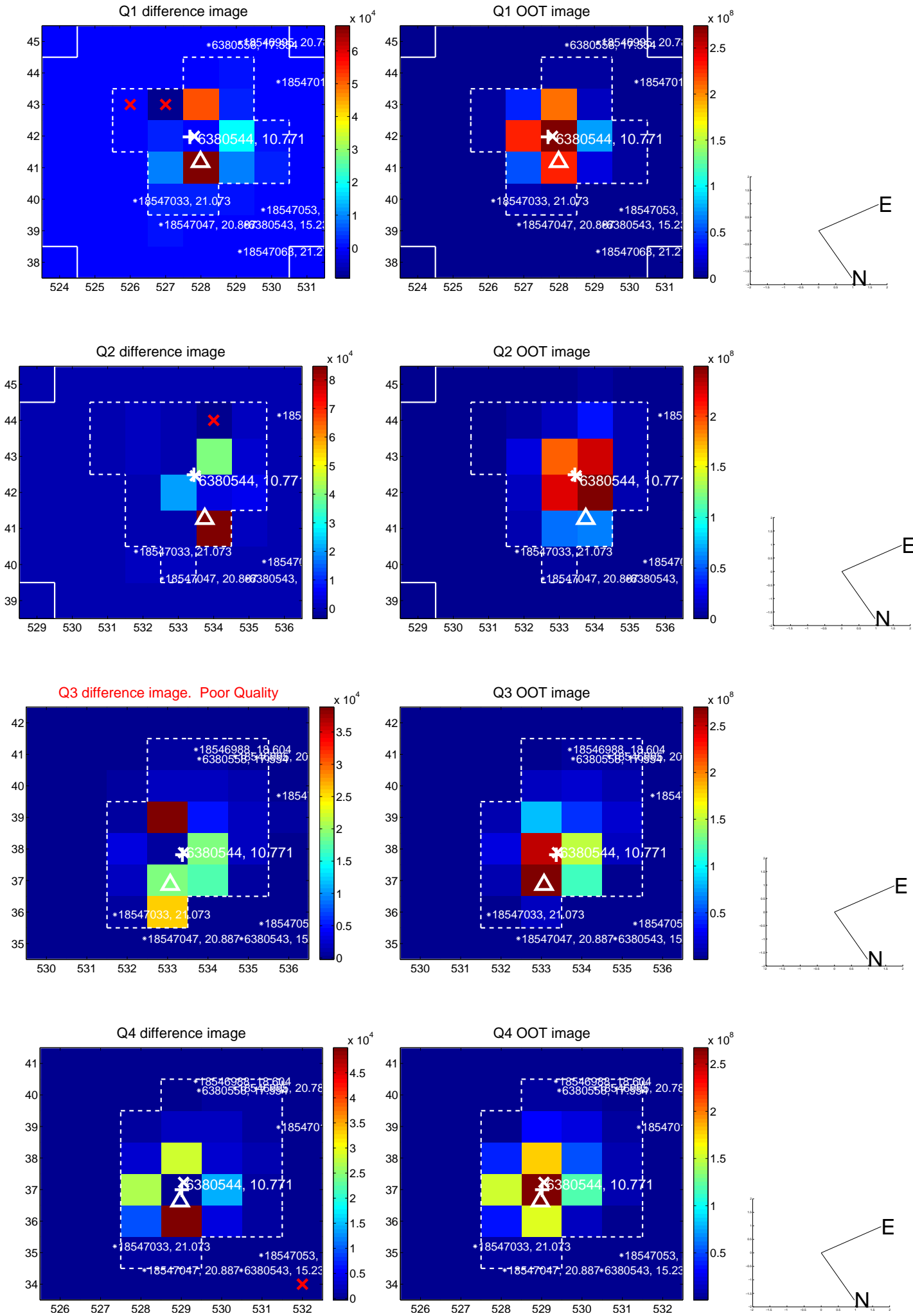
The direct PRF centroid is offset from the target star catalog position by about 0.58 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.750 ± 0.594	4.63	-1.580 ± 0.382	2.251 ± 0.496
PRF-fit source offset from KIC position	3.101 ± 0.603	5.15	-1.816 ± 0.363	2.514 ± 0.520
photometric centroid source offset	6.31 ± 1.91	3.29	-2.78 ± 1.79	-5.66 ± 1.94

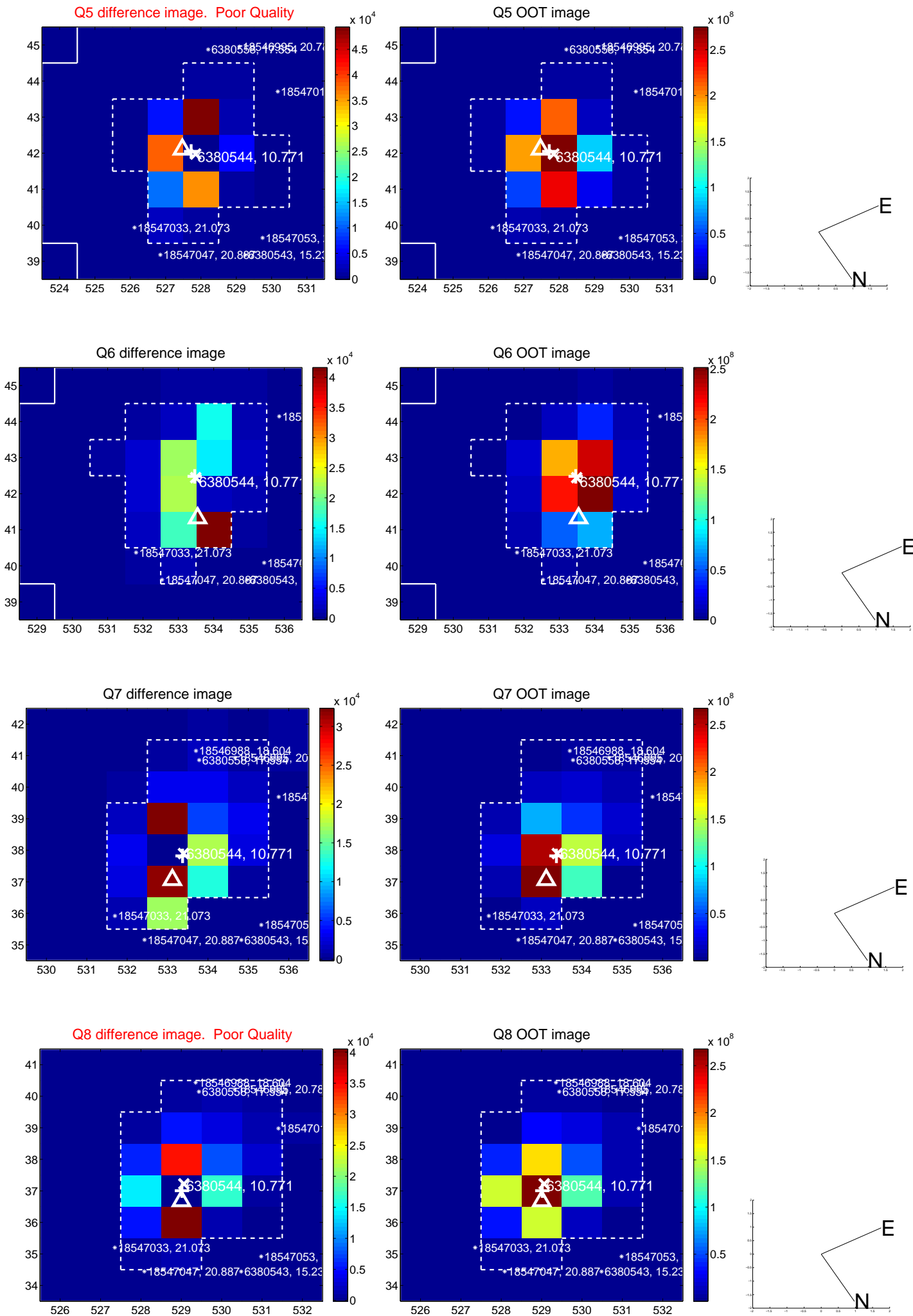


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

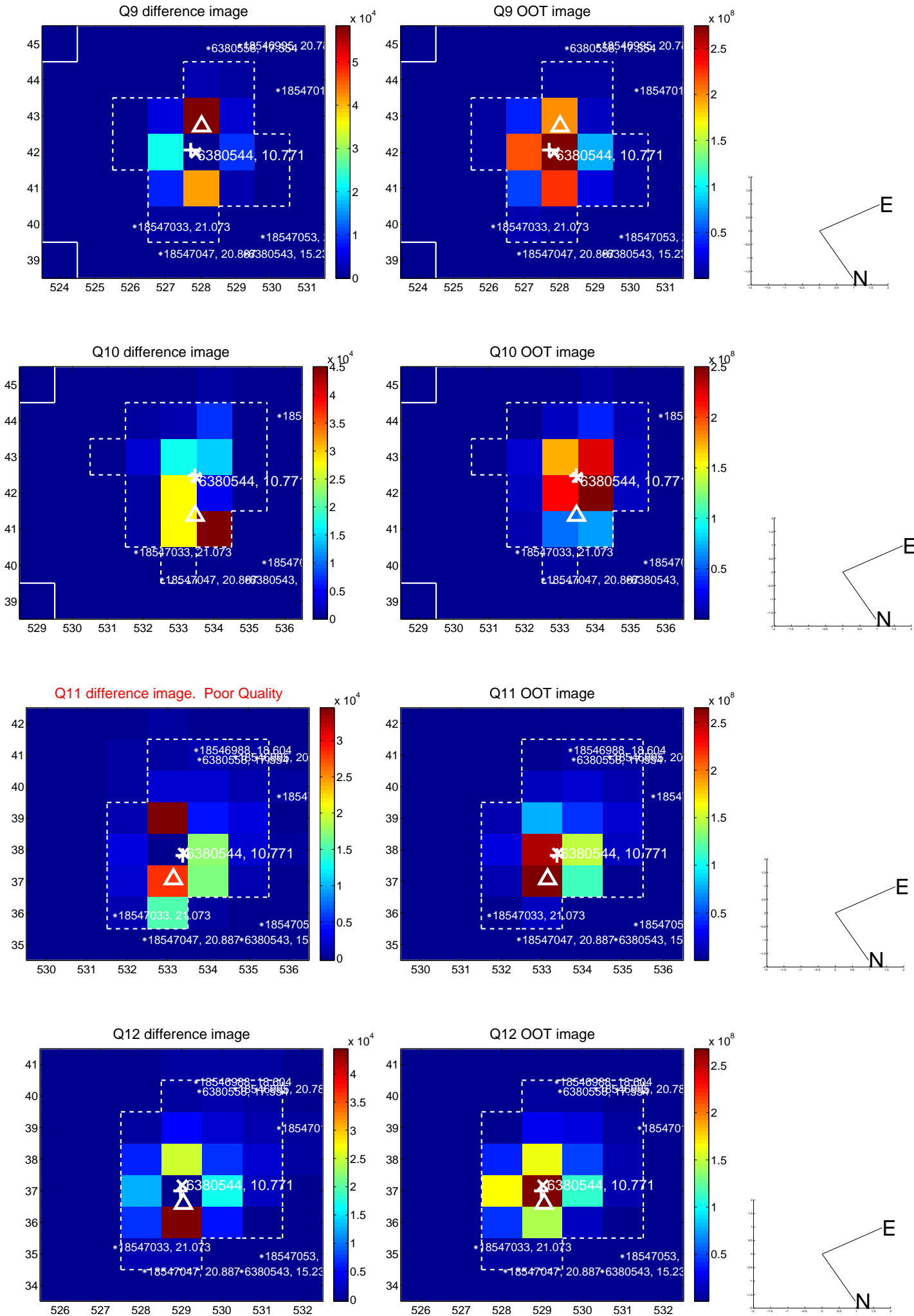
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



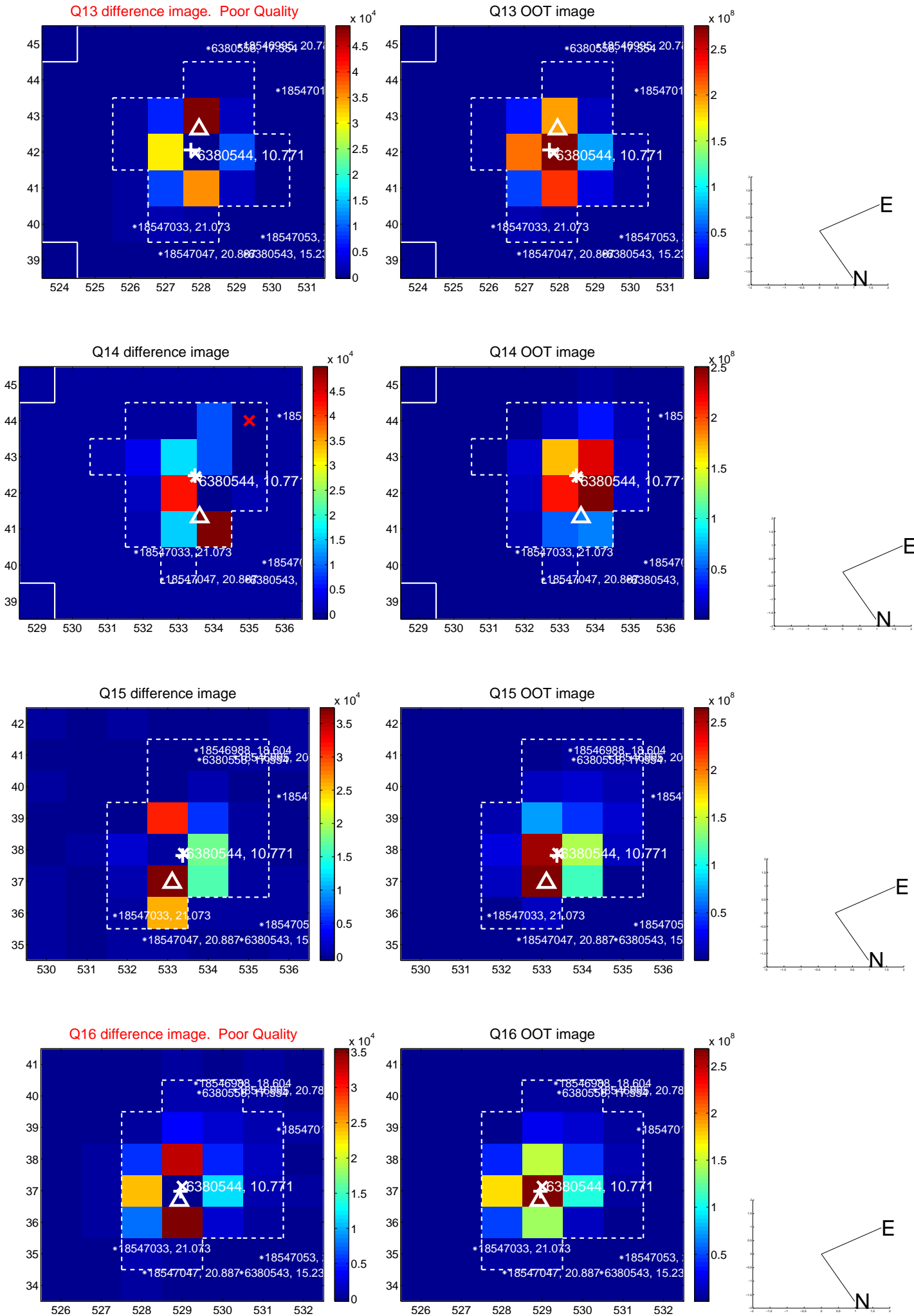
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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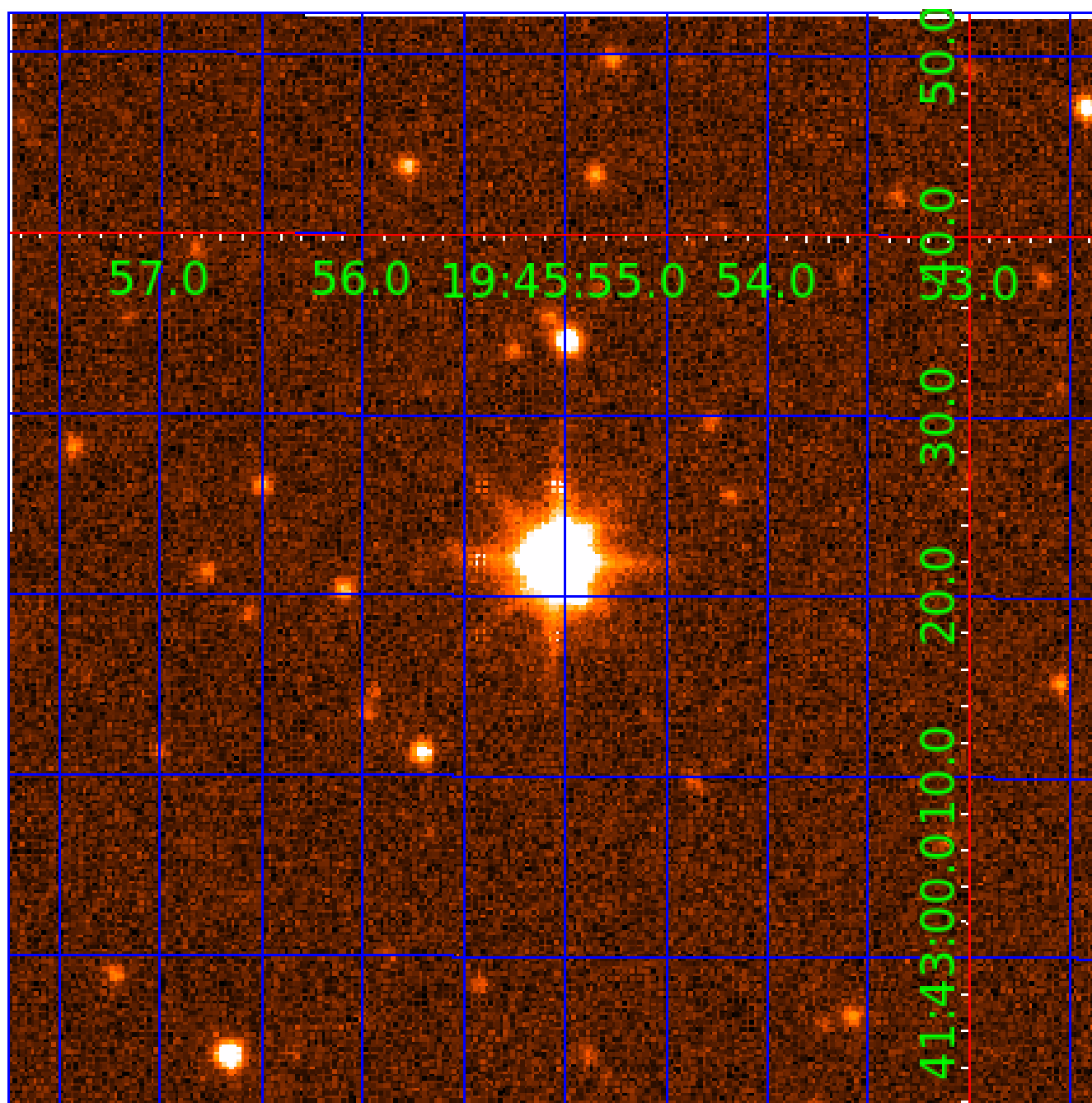


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006380544

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})
006380544-01	OBS	No	1.948340	132.128150	6.6	5.845	11.9	12.5	3.32	9631	0.88	46939.62
006380544-02	OBS	No	1.948388	132.960774	5.8	7.663	12.1	13.2	3.32	9631	0.89	46938.07
006380544-03	OBS	No	46.649354	174.910460	53.8	1.734	12.5	5.9	3.32	9631	2.76	680.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006380544-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006380544-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_SATURATED
006380544-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED

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

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

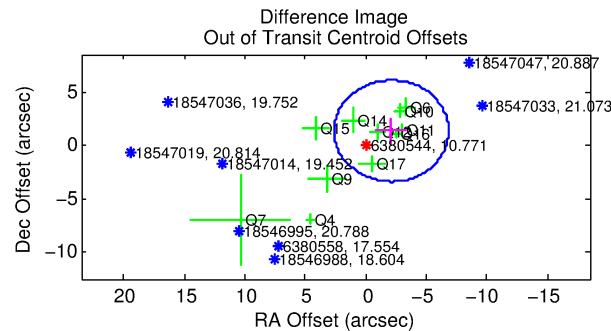
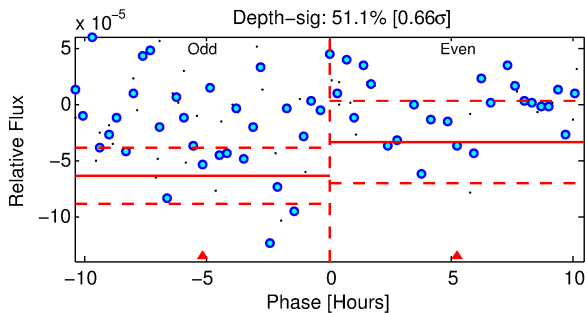
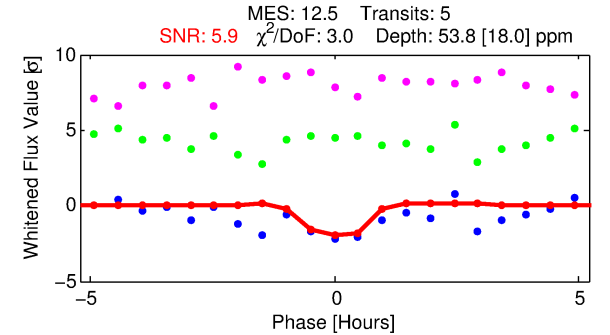
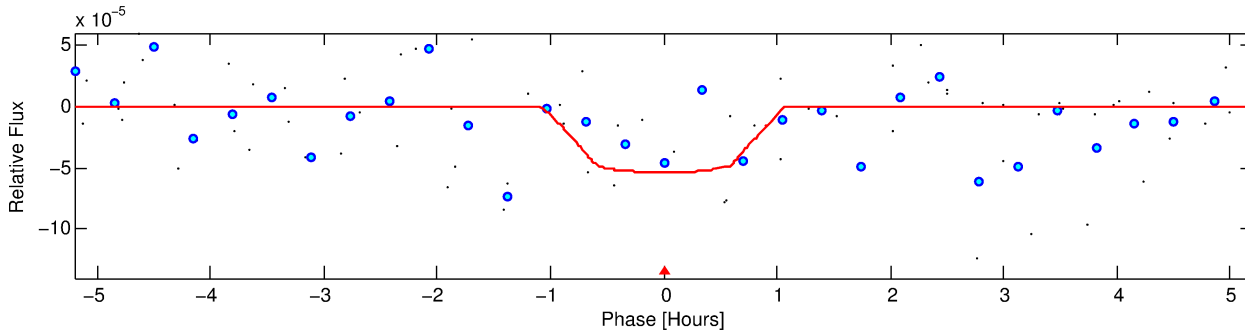
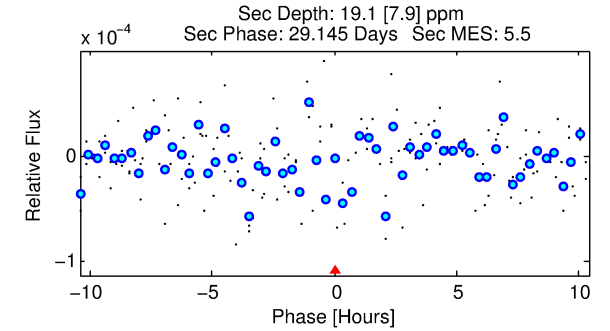
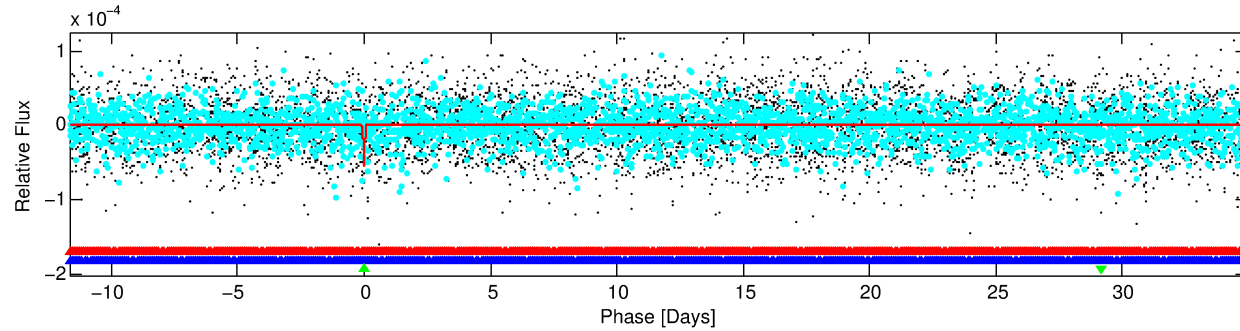
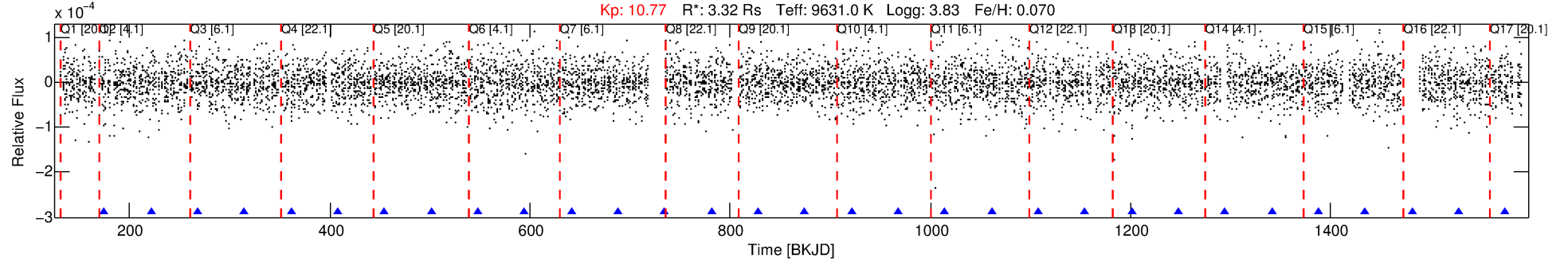
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006380544-03

No Significant Match Found

DV One-Page Summary

KIC: 6380544 Candidate: 3 of 3 Period: 46.649 d



DV Fit Results:

Period = 46.64935 [0.00095] d
Epoch = 174.9105 [0.0130] BKJD
Rp/R* = 0.0076 [0.0117]
a/R* = 103.18 [1213.52]
b = 0.87 [3.24]
Seff = 680.19 [498.16]
Teq = 1302 [238] K
Rp = 2.76 [4.47] Re
a = 0.3535 [0.1638] AU
Ag = 172.06 [544.44] [0.31σ]
Teffp = 7292 [5637] K [1.06σ]

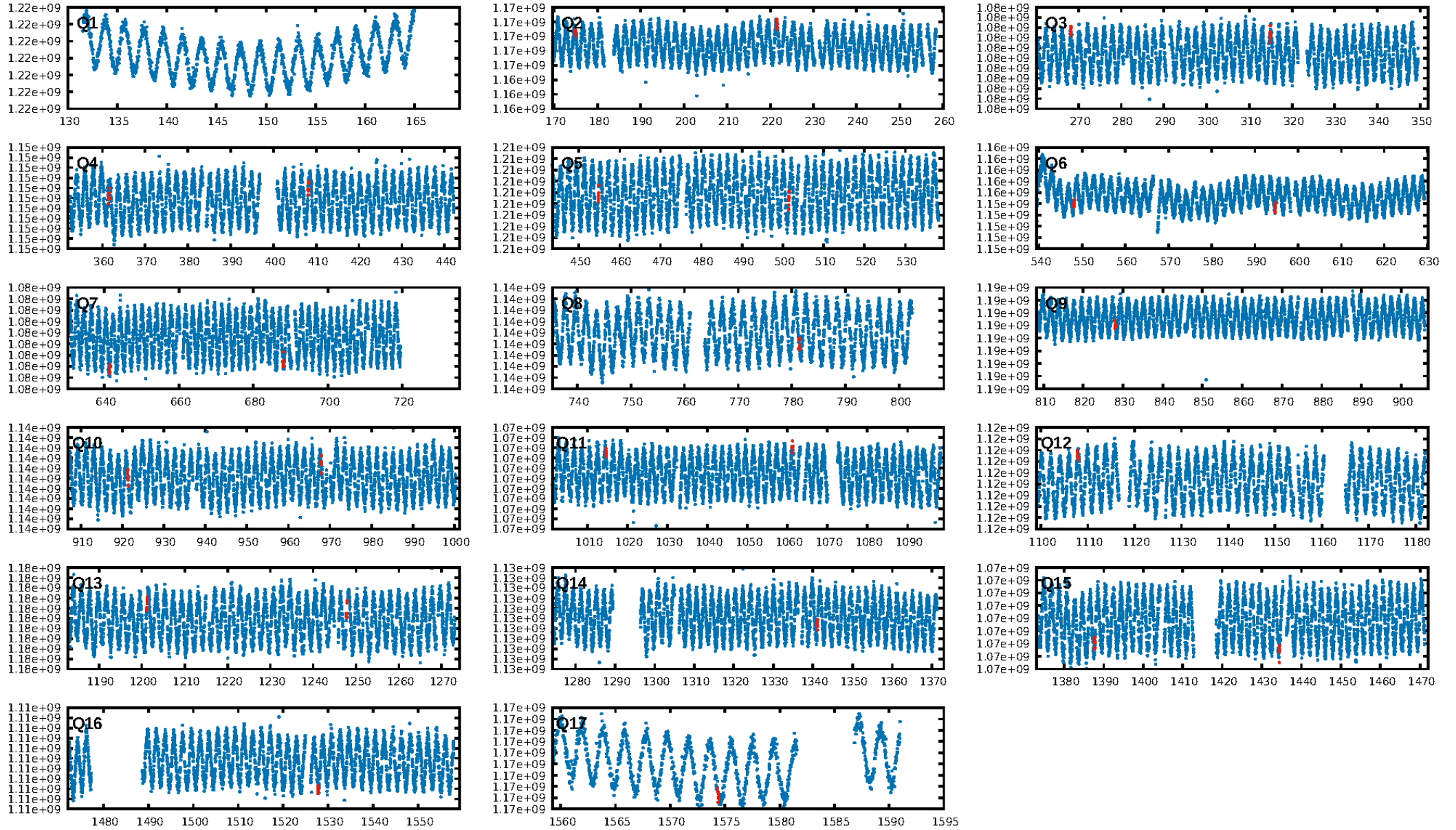
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [136.54σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 12.5%
Bootstrap-pfa: 4.89e-43
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -35.37
Centroid-sig: N/A
Centroid-so: 3.970 arcsec [2.56σ]
OotOffset-rm: 2.476 arcsec [1.57σ]
KicOffset-rm: 2.795 arcsec [1.85σ]
OotOffset-st: 3/3/3/2 [11]
KicOffset-st: 3/3/3/2 [11]
DiffImageQuality-fgm: 0.18 [2/11]
DiffImageOverlap-fno: 0.25 [4/16]

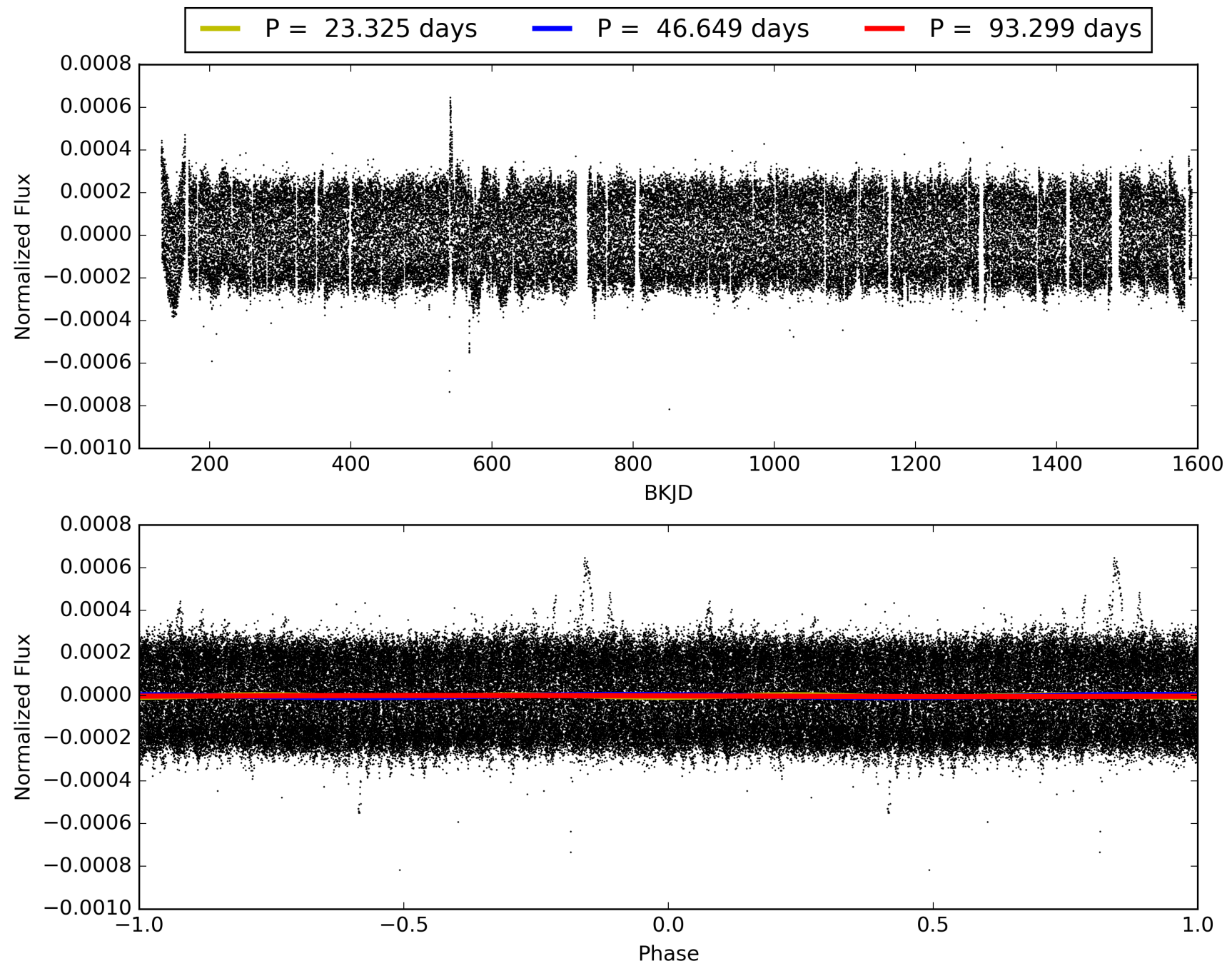
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 02:12:43 Z

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

TCE 006380544-03, PDC Light Curves

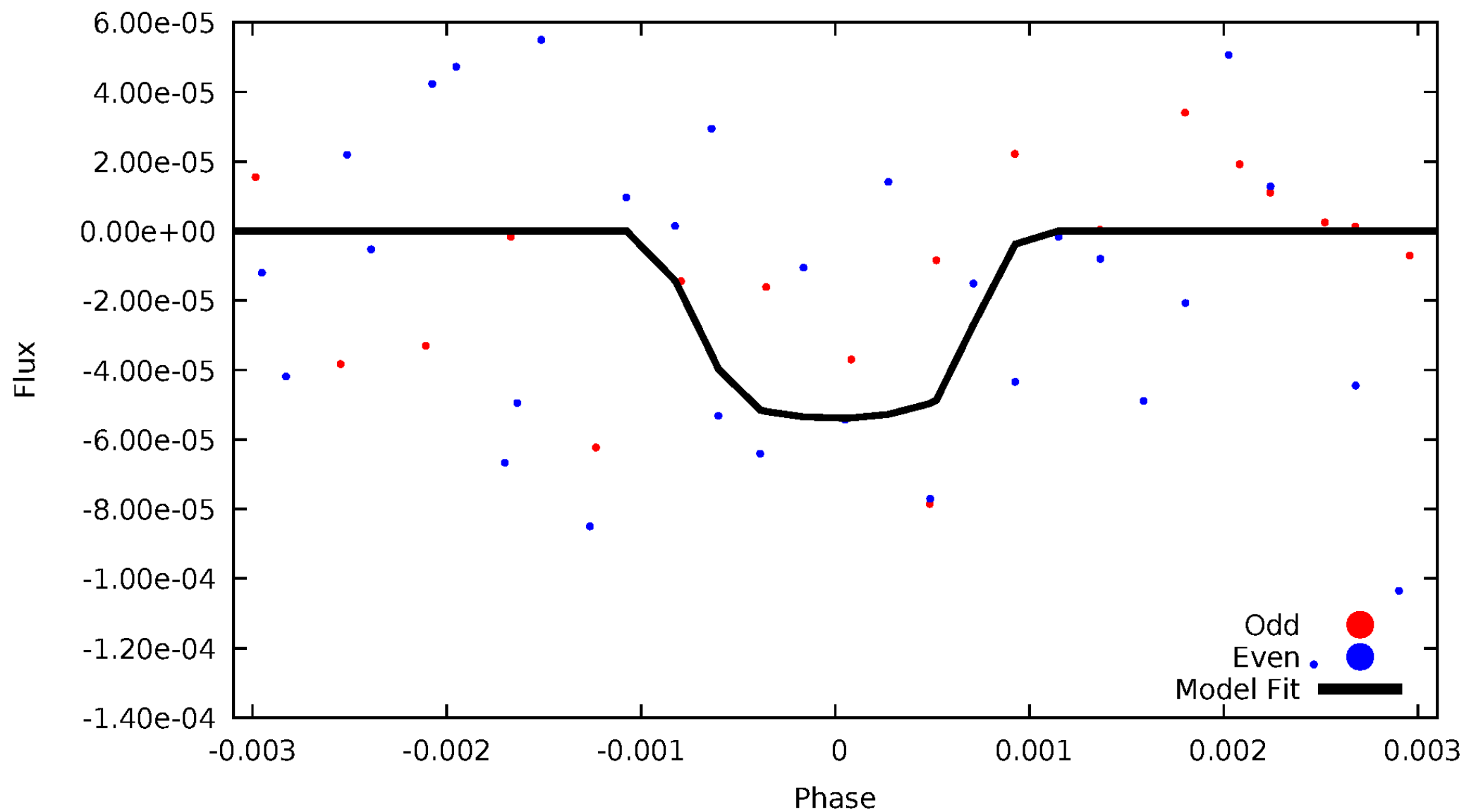


TCE 006380544-03



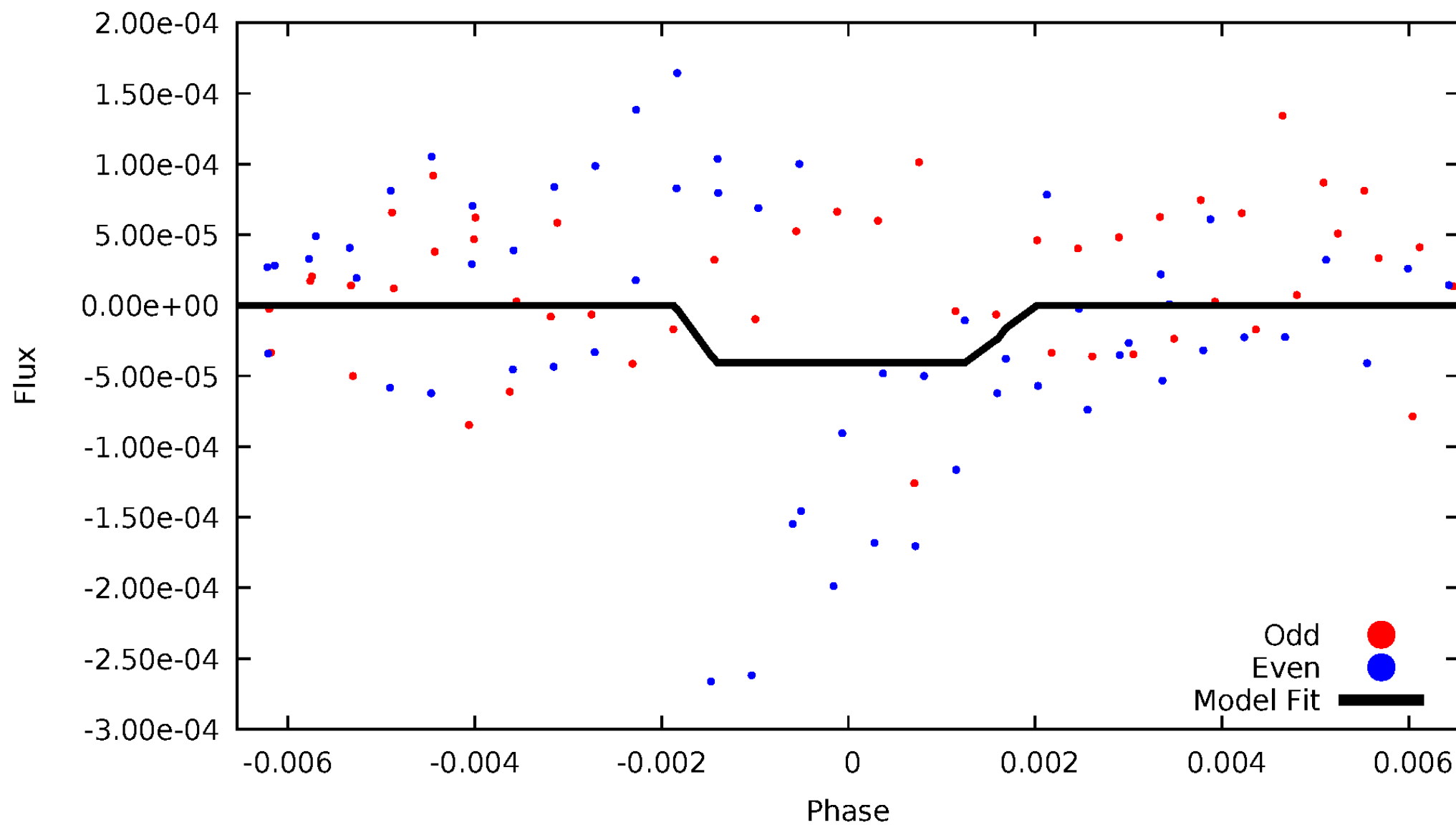
DV Odd/Even

TCE 006380544-03



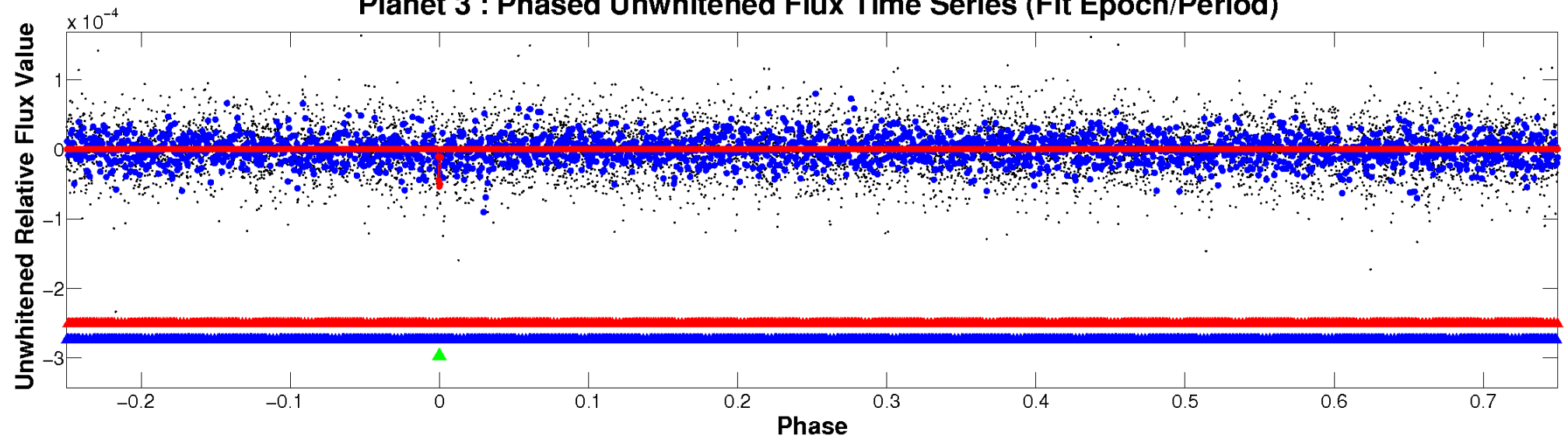
ALT Odd/Even

TCE 006380544-03

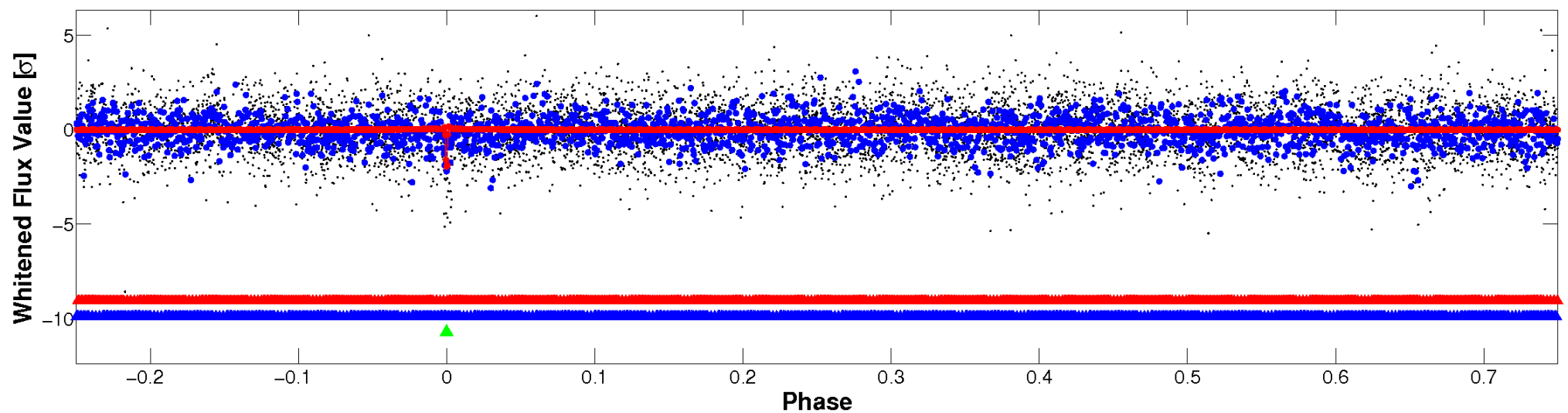


Non-Whitened Vs. Whitened Light Curve

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

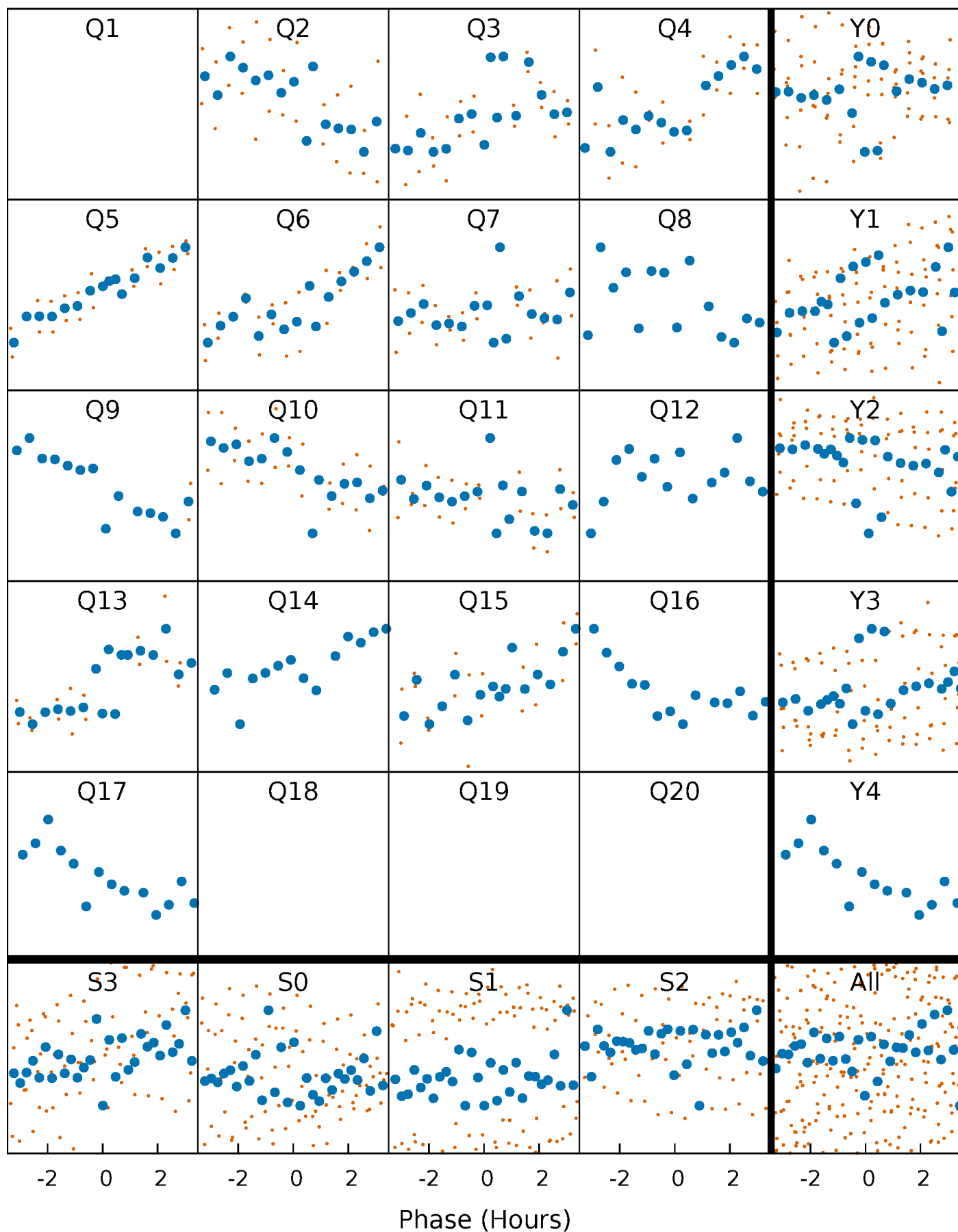


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



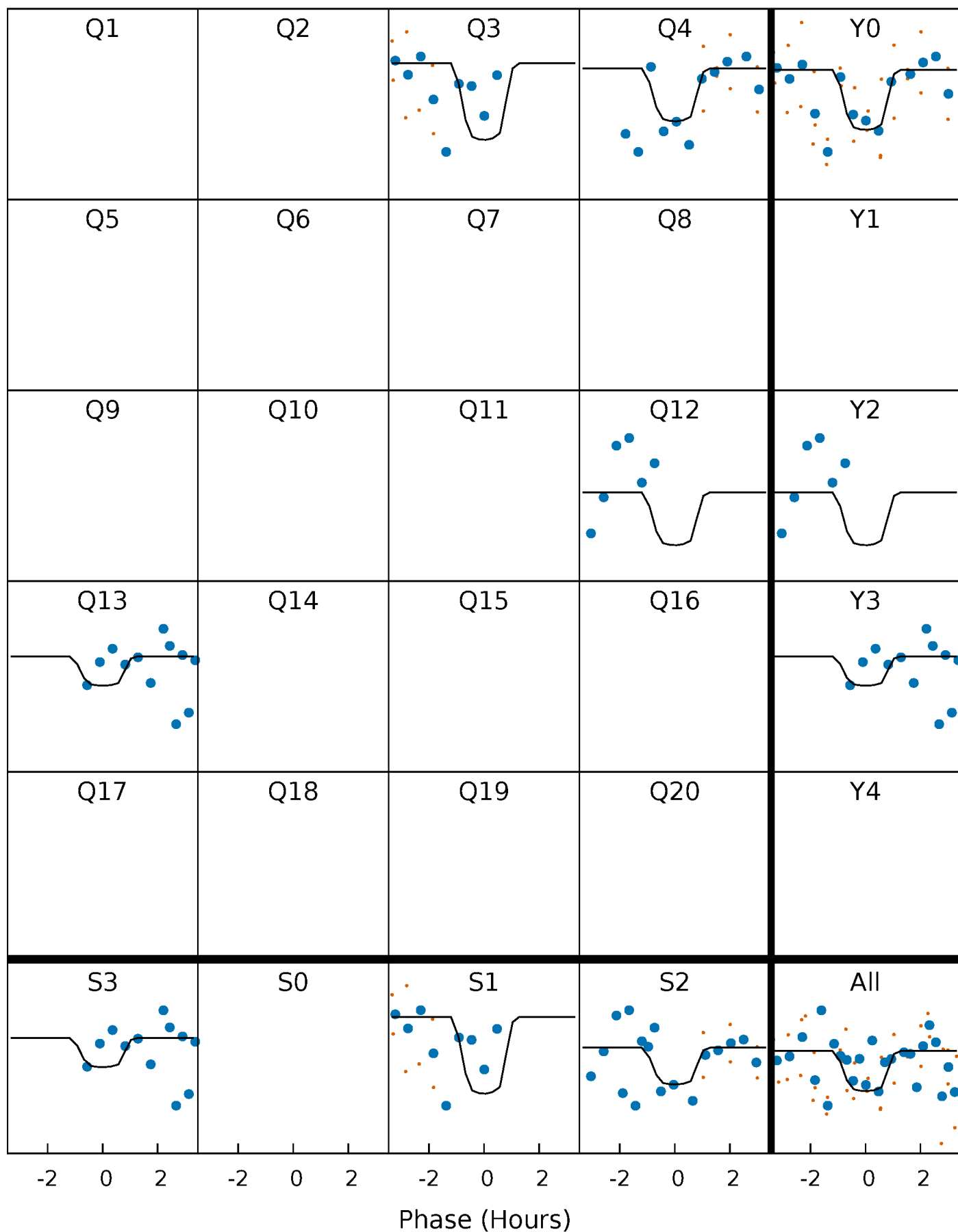
PDC Quarter-Phased Transit Curves

TCE 006380544-03 $P = 46.649354$ Days $T_0 = 174.910460$ (BKJD)



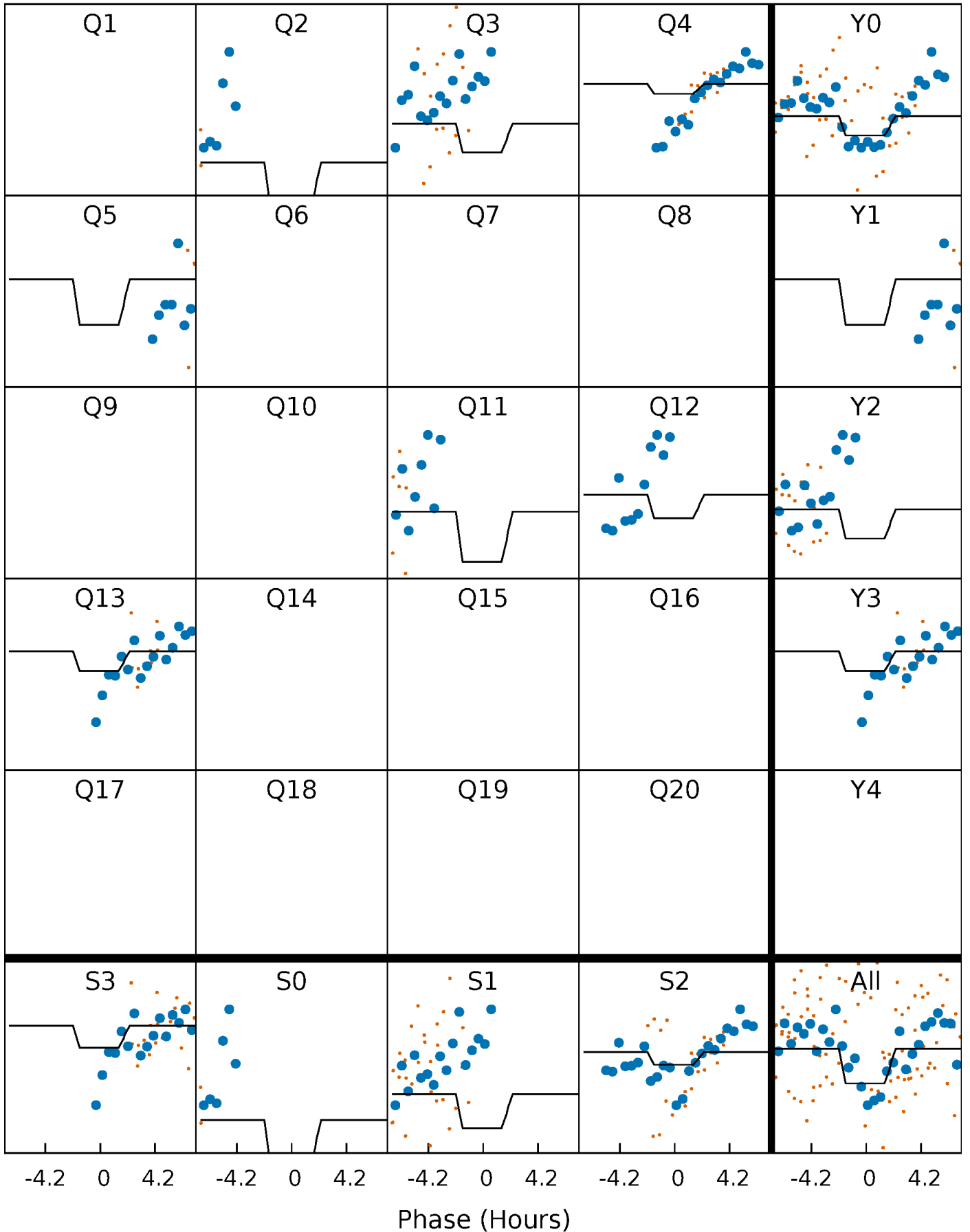
DV Quarter-Phased Transit Curves

TCE 006380544-03 P= 46.649354 Days $T_0=174.910460$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

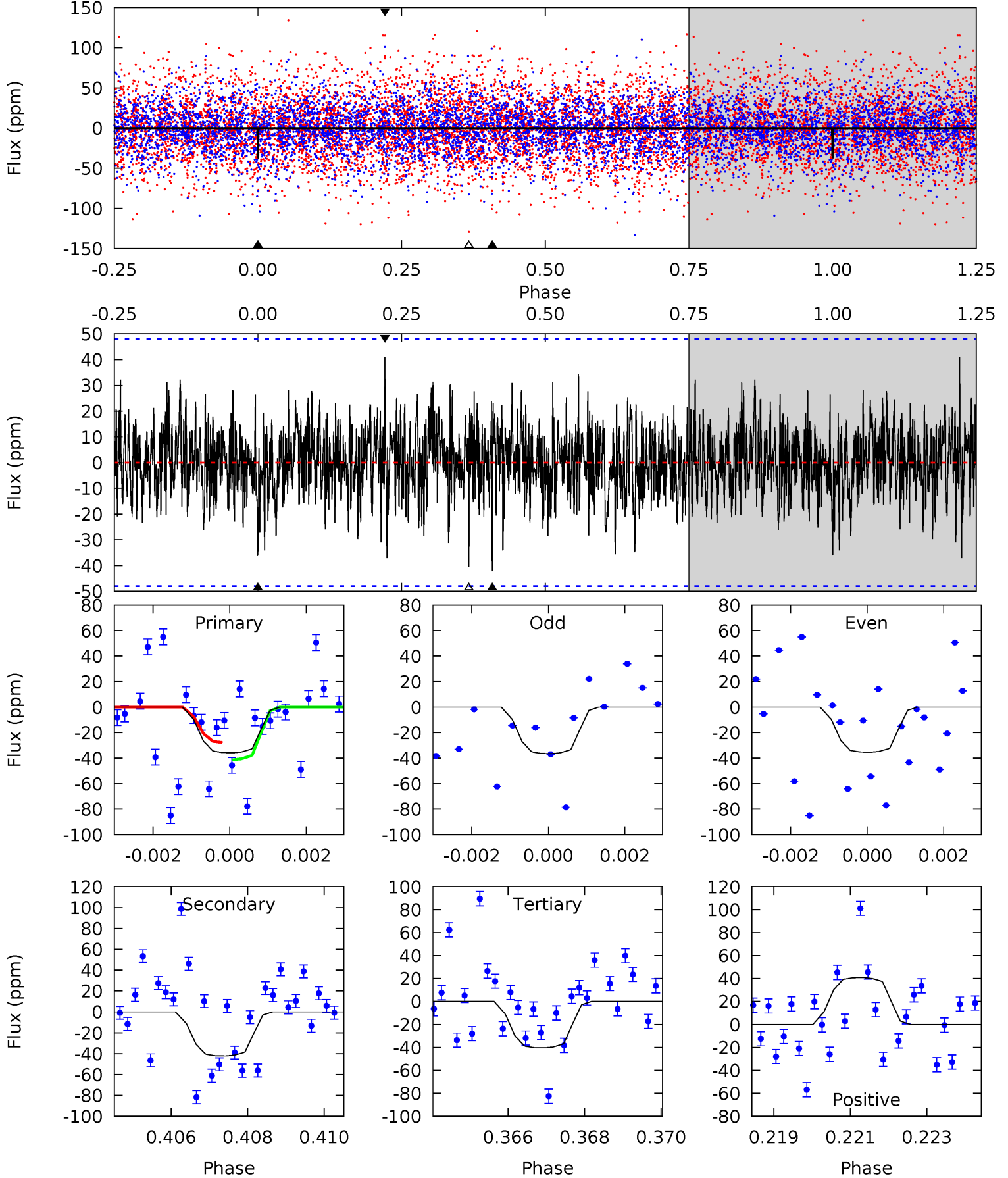
TCE 006380544-03 $P = 46.649690$ Days $T_0 = 174.898455$ (BKJD)



DV Model-Shift Uniqueness Test

006380544-03, P = 46.649354 Days, E = 128.261106 Days

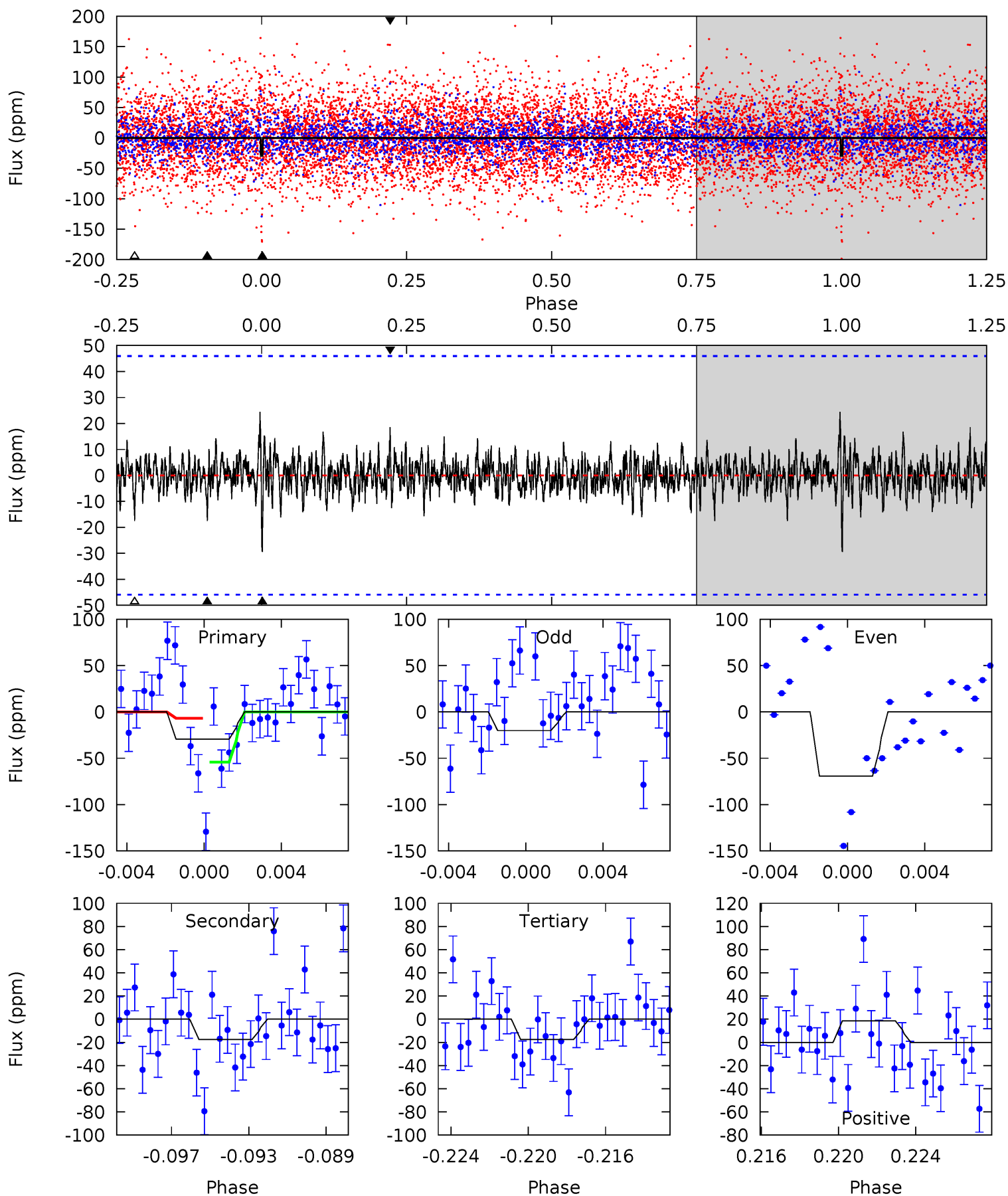
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.00	4.71	4.51	4.56	5.35	3.13	1.23	-0.51	-0.56	0.20	0.15	0.06	1.05	0.49	0.76



Alt Model-Shift Uniqueness Test

006380544-03, P = 46.649690 Days, E = 128.248765 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.34	1.99	1.98	2.11	5.21	2.89	0.57	1.36	1.23	0.00	-0.12	2.63	4.77	0.45	2.68



Stellar Parameters For KIC 006380544

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	9631^{+269}_{-500}	$3.828^{+0.397}_{-0.132}$	$0.070^{+0.150}_{-0.750}$	$3.321^{+0.869}_{-1.739}$	$2.710^{+0.327}_{-0.982}$	$0.104^{+0.400}_{-0.042}$
	+3%/-5%	+10%/-3%	+214%/-1071%	+26%/-52%	+12%/-36%	+384%/-40%
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 006380544-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-42 ± 9	$3.92^{+3.61}_{-2.67}$	1769^{+147}_{-198}	6686^{+7766}_{-1814}	194^{+1695}_{-147}
Alt.	-18 ± 9	$3.32^{+3.63}_{-2.17}$	1775^{+142}_{-207}	5596^{+5323}_{-1532}	100^{+803}_{-81}

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 $A_{obs} \gg 1.0$

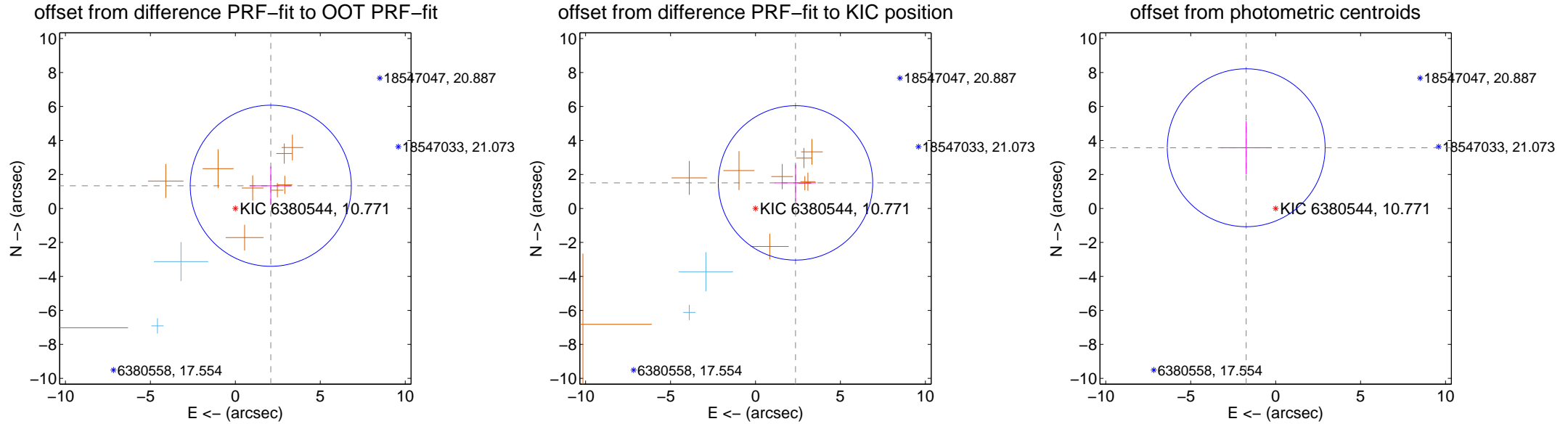
DV Centroid Data

Supplemental centroid analysis for 006380544-03. **Kepler magnitude: 10.77.** Transit SNR 5.94

There are 2 quarters with good PRF difference image offsets

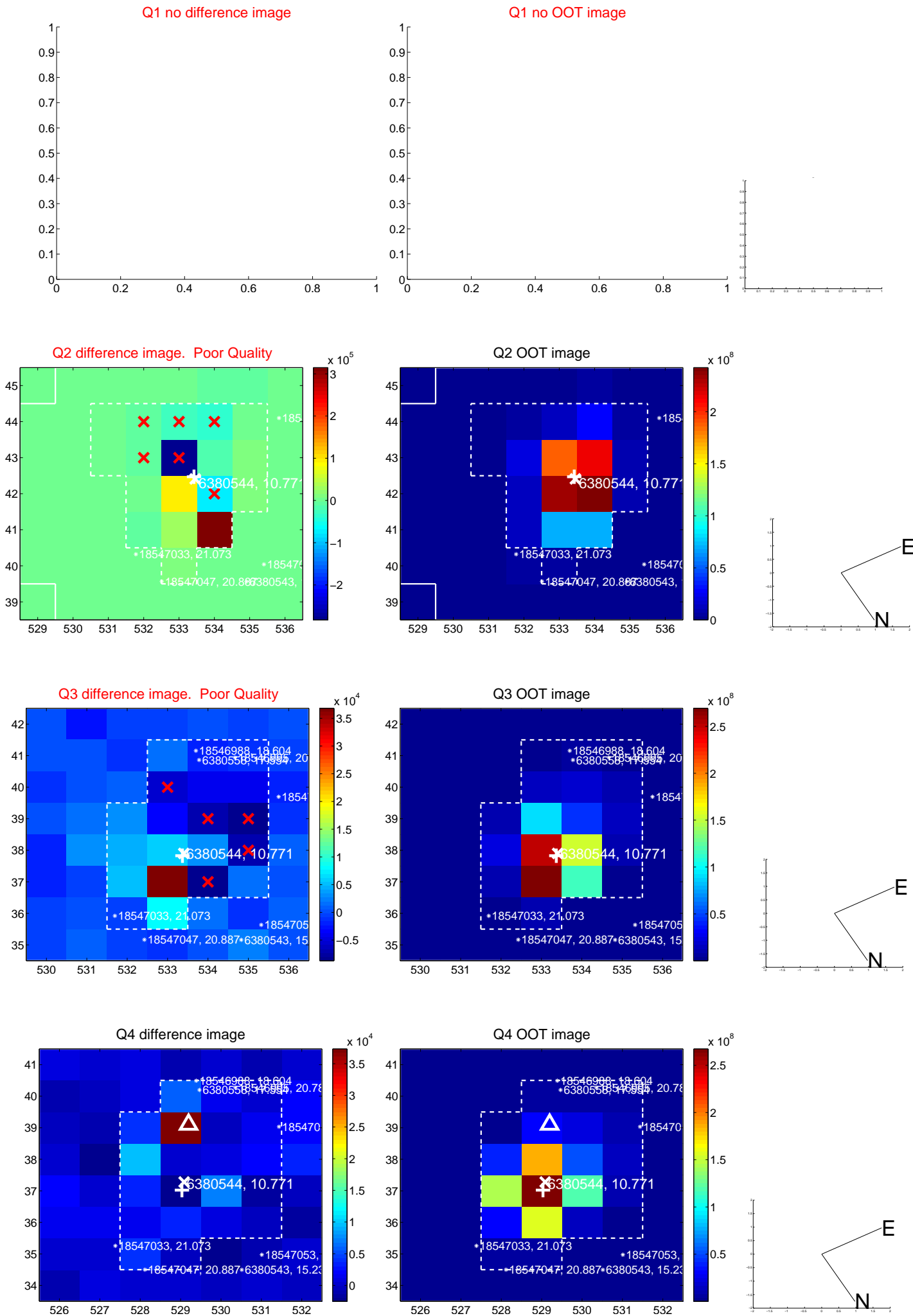
The direct PRF centroid is offset from the target star catalog position by about 0.60 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.476 ± 1.580	1.57	-2.086 ± 1.238	1.335 ± 1.127
PRF-fit source offset from KIC position	2.795 ± 1.514	1.85	-2.356 ± 1.208	1.503 ± 1.080
photometric centroid source offset	3.97 ± 1.55	2.56	1.73 ± 1.51	3.57 ± 1.56

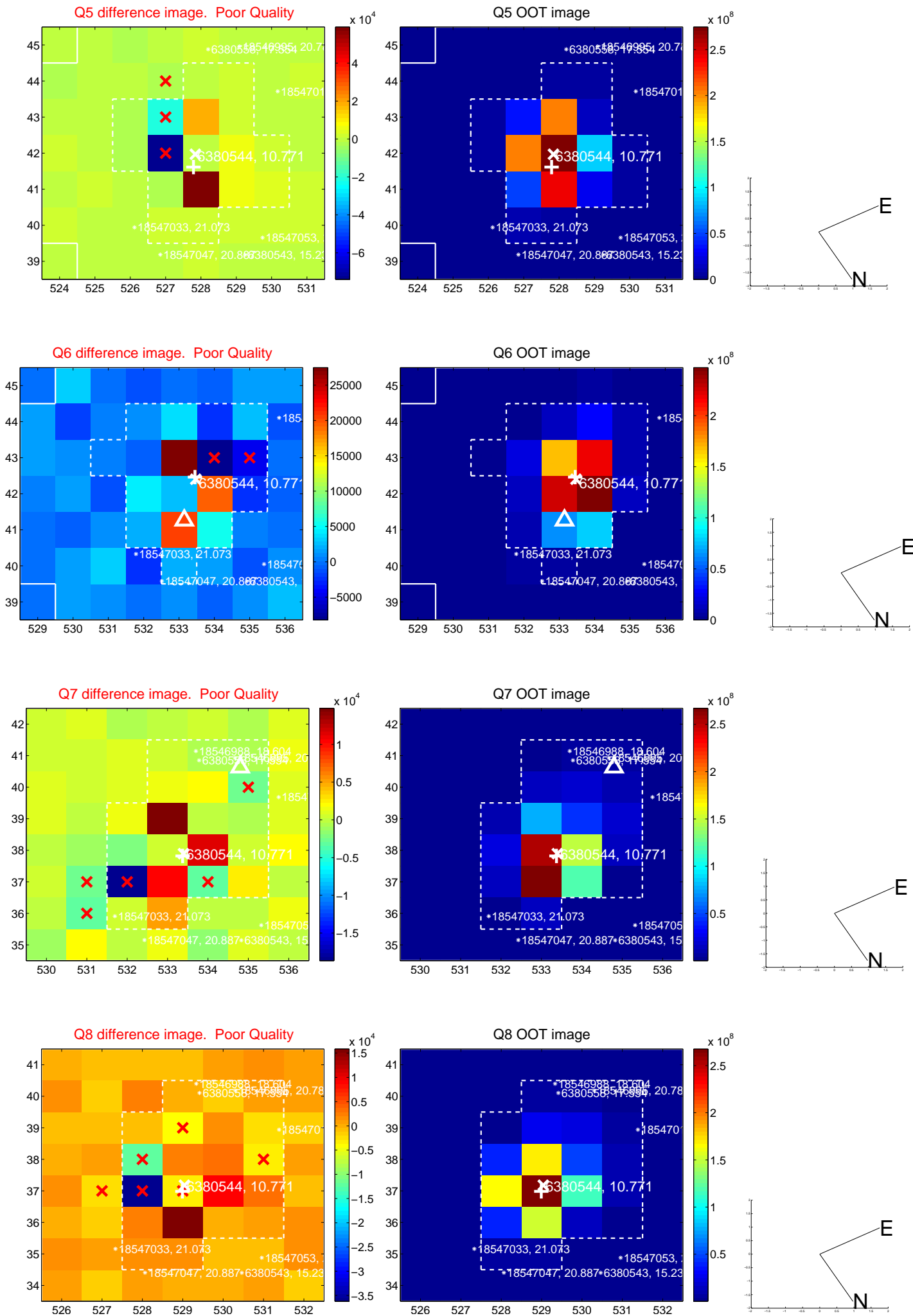


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

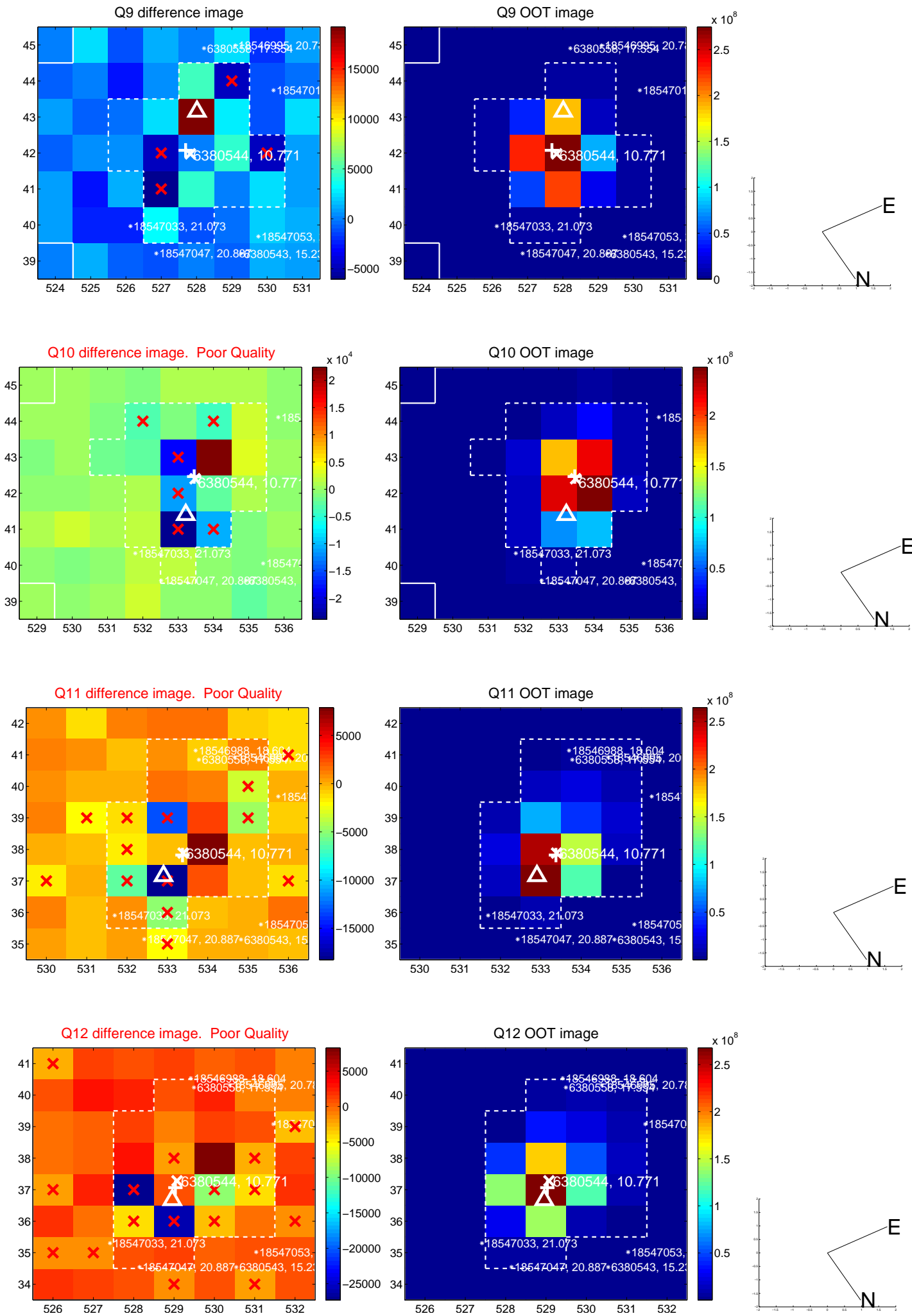
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



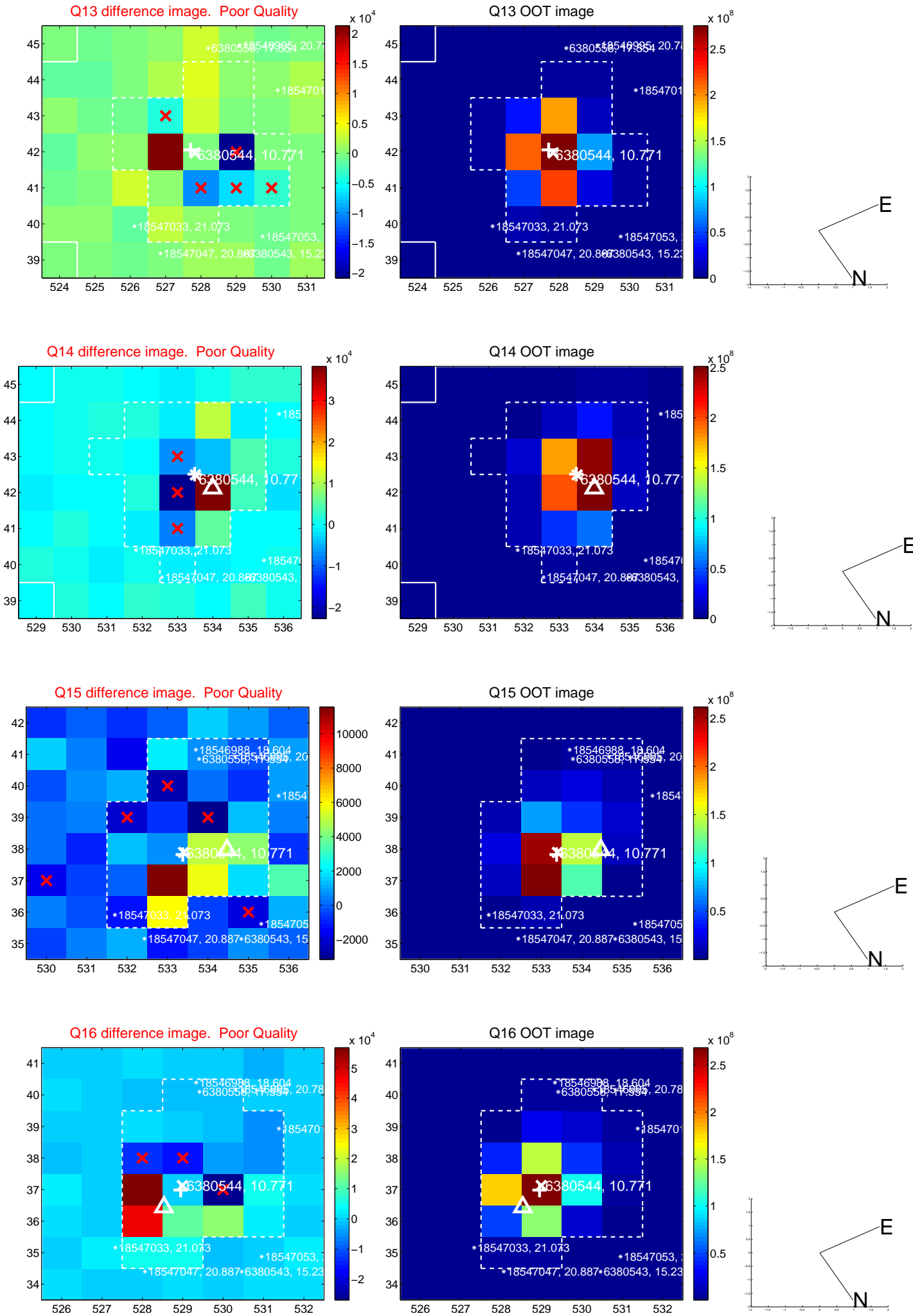
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



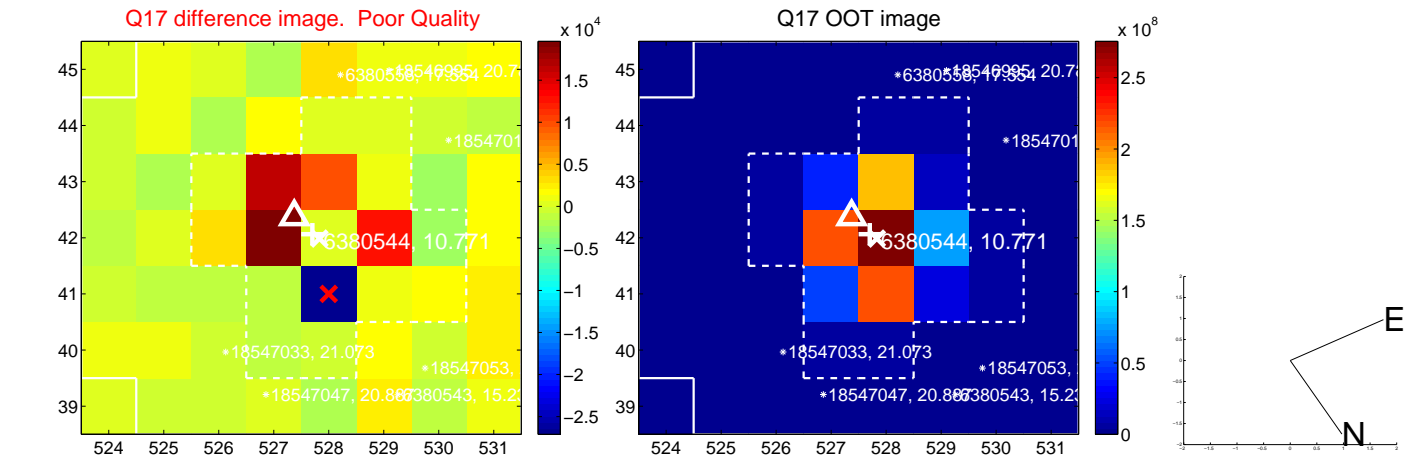
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



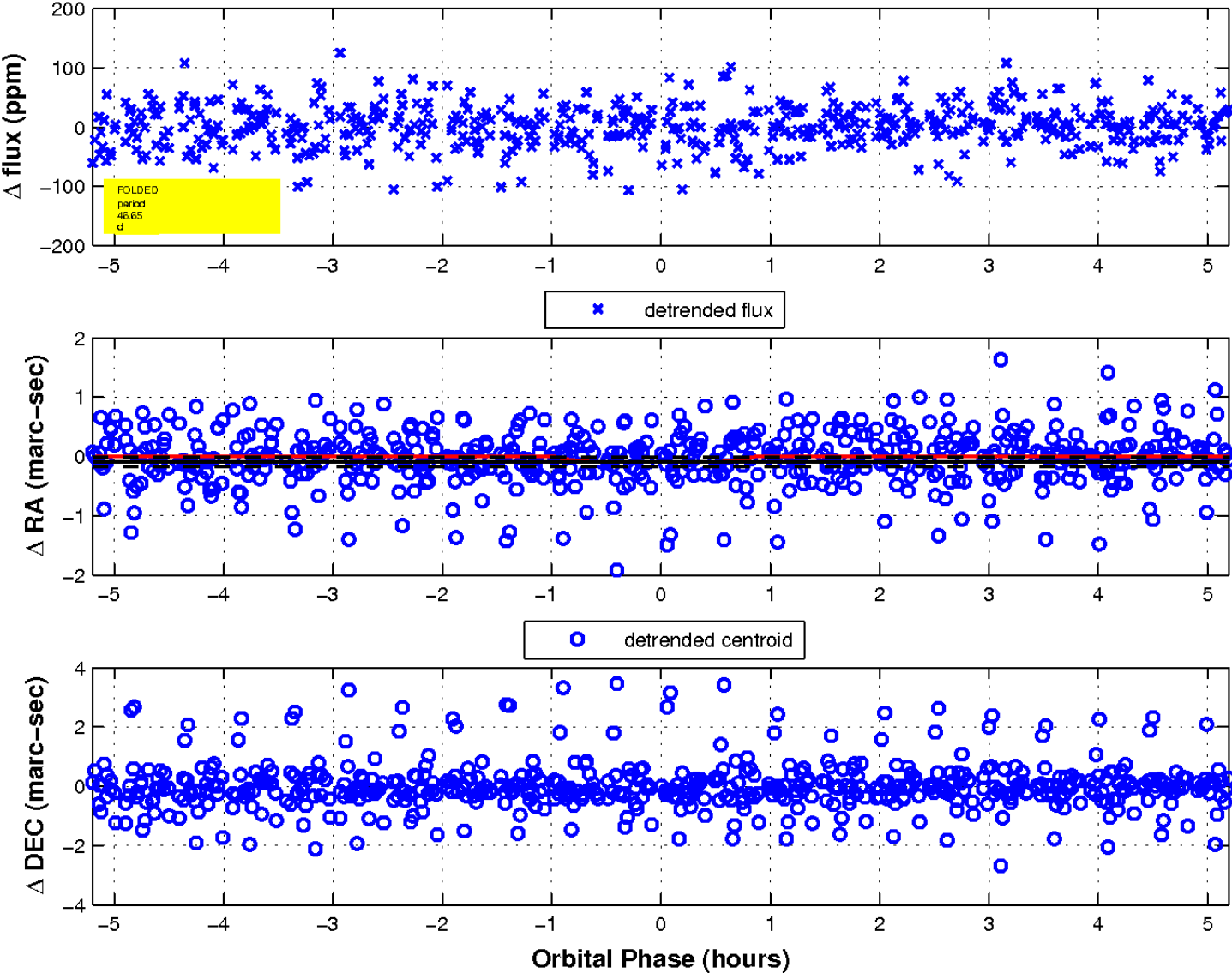
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

