

KIC 007050100

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})
007050100-01	OBS	No	0.965766	132.304412	0.0	5.543	10.1	0.0	3.54	6498	0.00	38995.66
007050100-02	OBS	No	112.222739	162.952825	690.3	12.514	11.1	7.5	3.54	6498	17.68	68.77
007050100-03	OBS	No	63.361647	161.995916	173.9	8.041	9.2	3.8	3.54	6498	5.23	147.37
007050100-04	OBS	No	50.457185	153.911184	298.1	4.107	9.0	7.7	3.54	6498	7.20	199.66
007050100-05	OBS	No	14.240562	143.253769	293.0	9.550	8.6	9.7	3.54	6498	11.72	1078.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007050100-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET
007050100-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_UNRESOLVED_OFFSET
007050100-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_UNRESOLVED_OFFSET
007050100-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_UNRESOLVED_OFFSET
007050100-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET

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

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

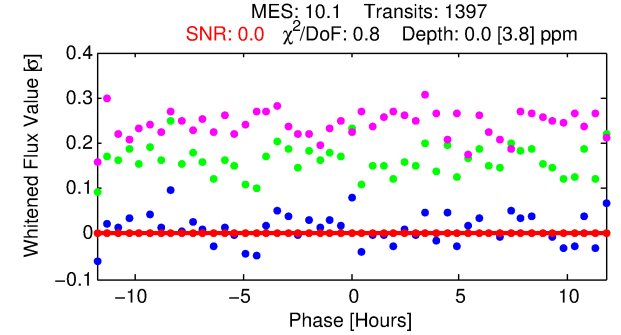
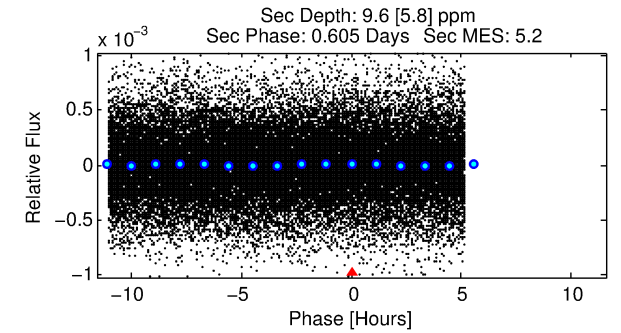
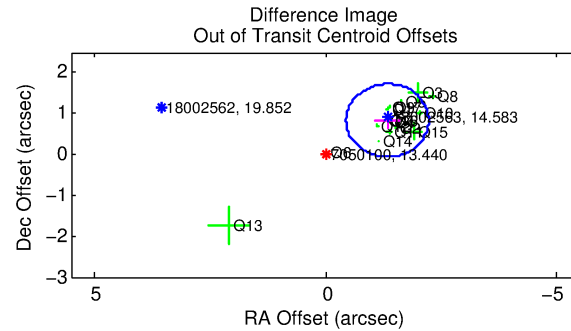
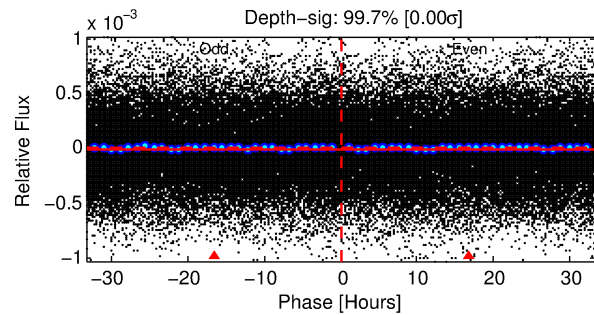
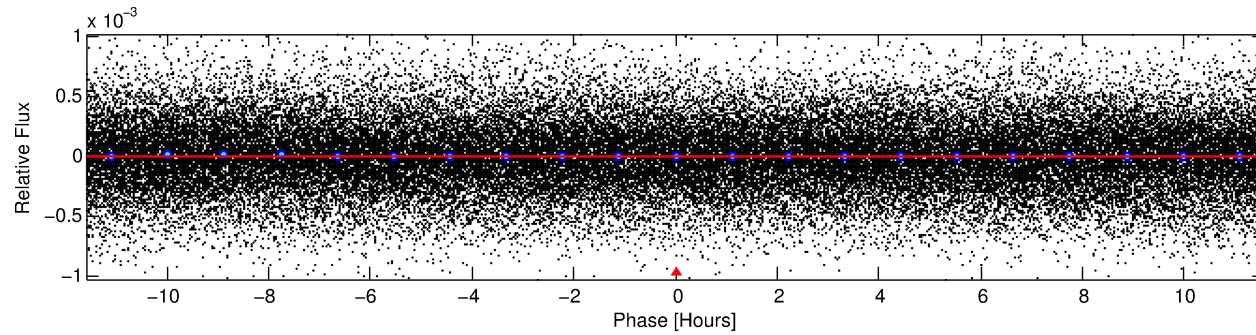
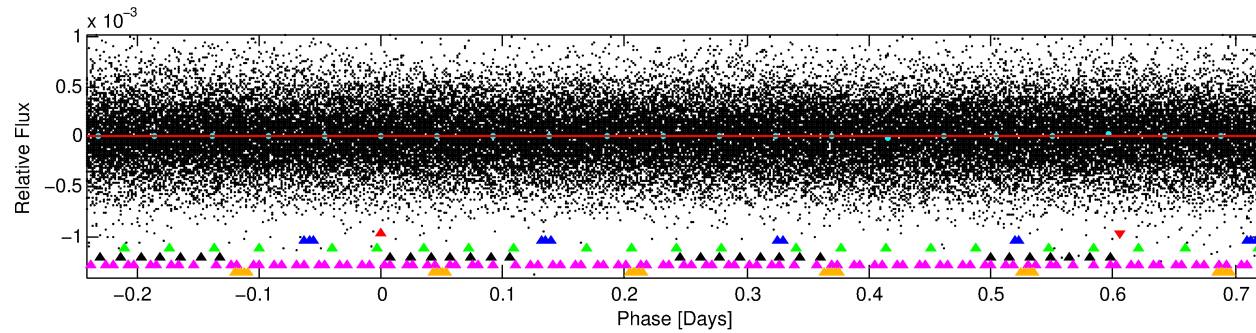
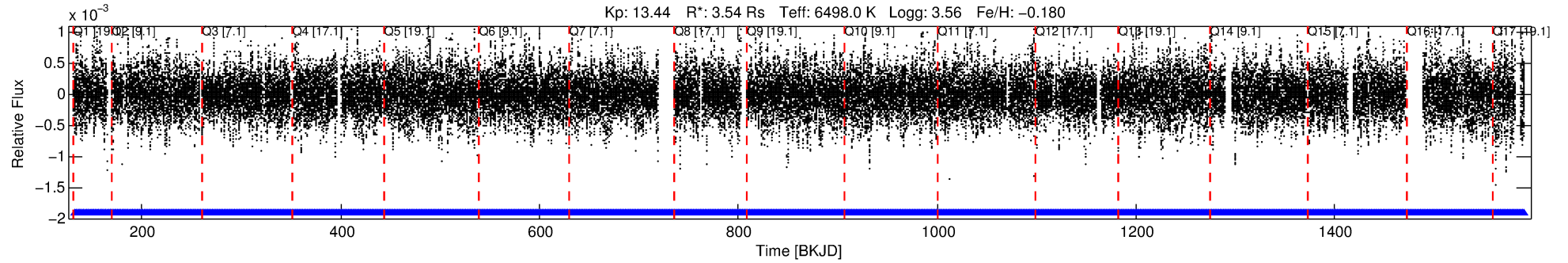
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007050100-01

No Significant Match Found

DV One-Page Summary

KIC: 7050100 Candidate: 1 of 6 Period: 0.966 d



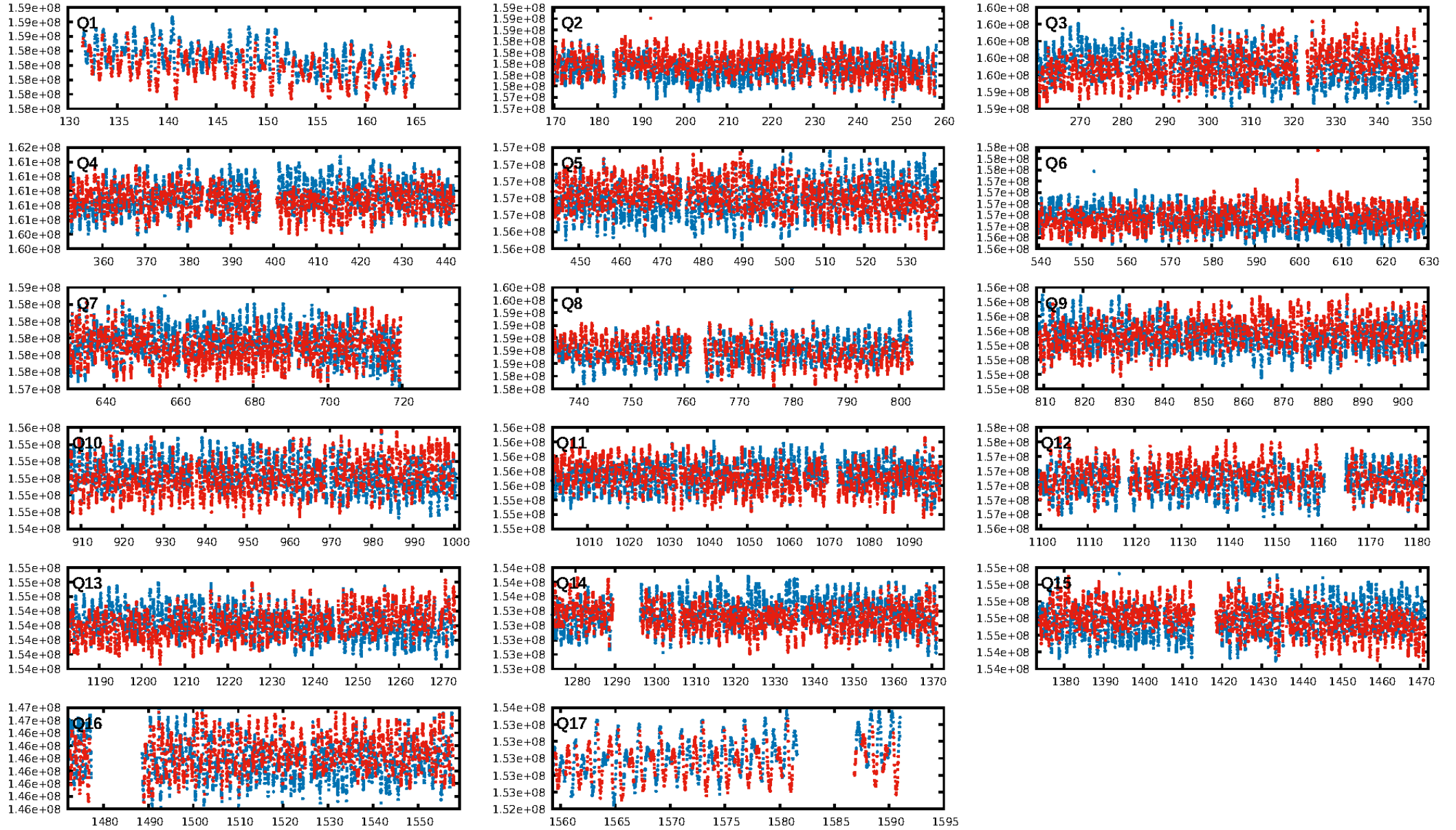
DV Fit Results:

Period = 0.96577 [3.64249] d
Epoch = 132.3044 [737.4953] BKJD
Rp/R* = 0.0000 [0.2015]
a/R* = 1.17 [383.73]
b = 0.82 [1347.45]
Seff = 38995.66 [197522.11]
Teq = 3583 [4538] K
Rp = 0.00 [77.86] Re
a = 0.0227 [0.0576] AU
Ag = 189776.71 [7812047444.71] [0.00]
Teff = 115633 [1190072979] K [0.00]

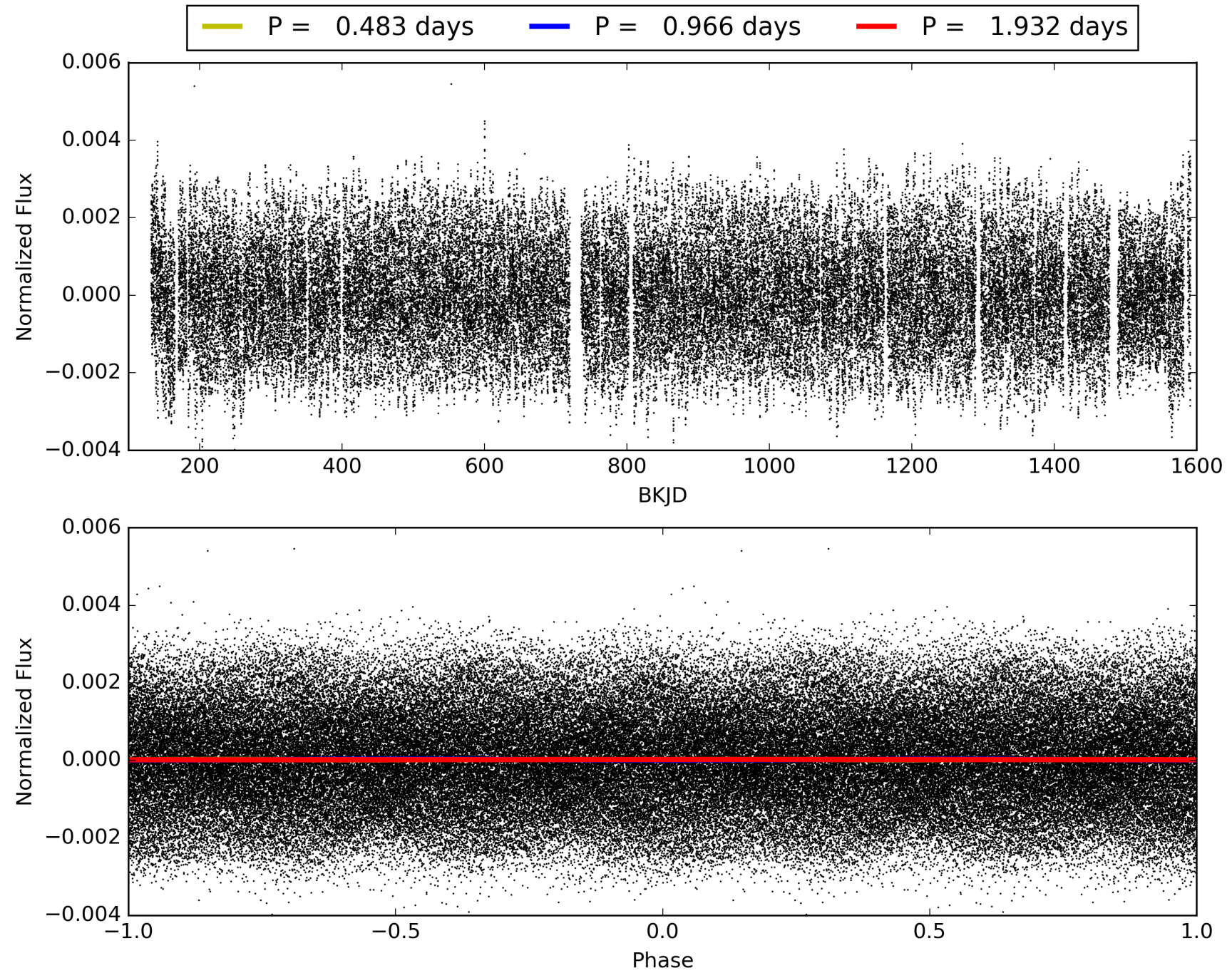
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [28.85 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1335/1335]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
QotOffset-rm: 1.576 arcsec [5.30 σ]
KicOffset-rm: 1.806 arcsec [5.91 σ]
QotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.59 [10/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 007050100-01, PDC Light Curves

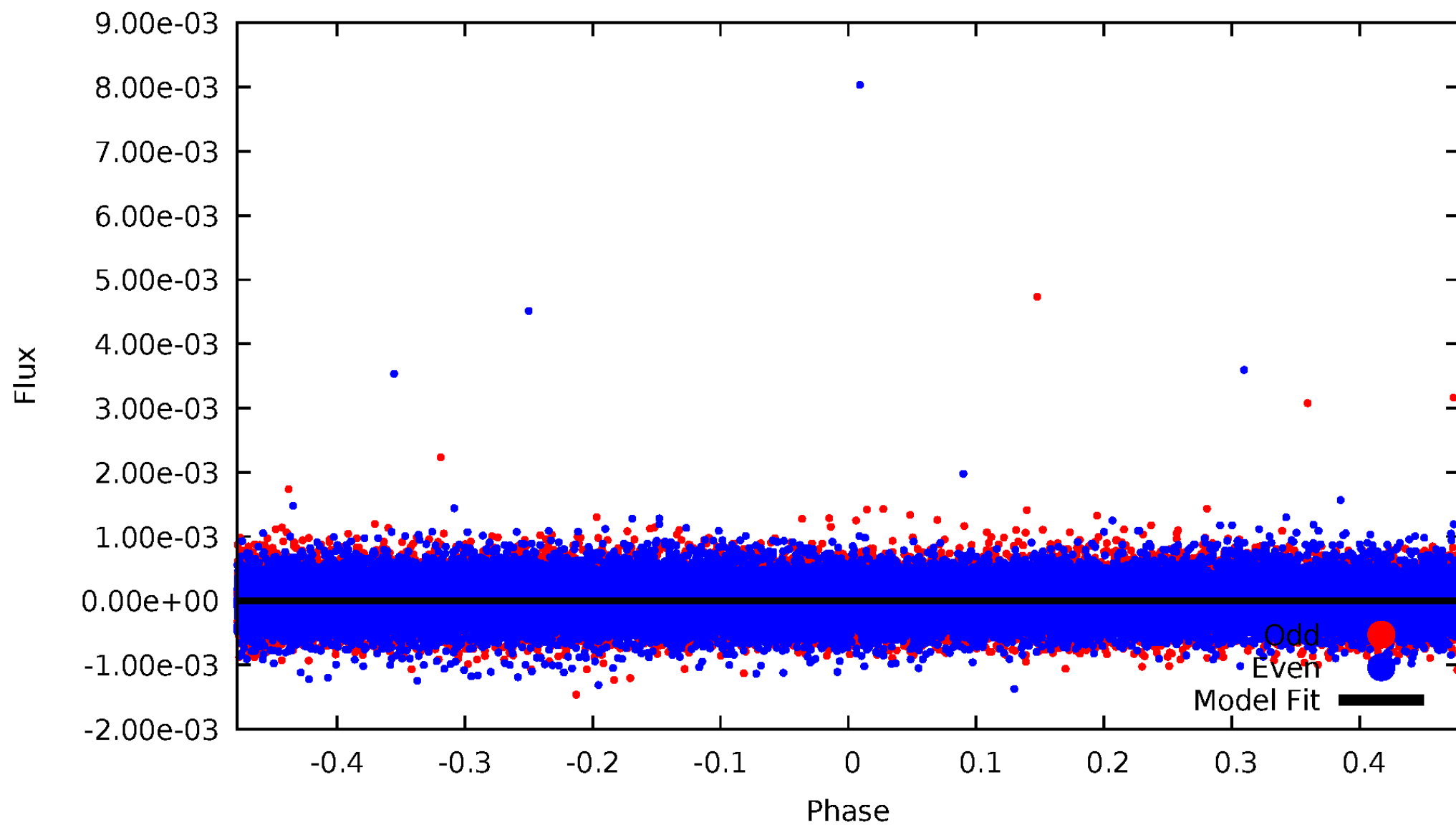


TCE 007050100-01



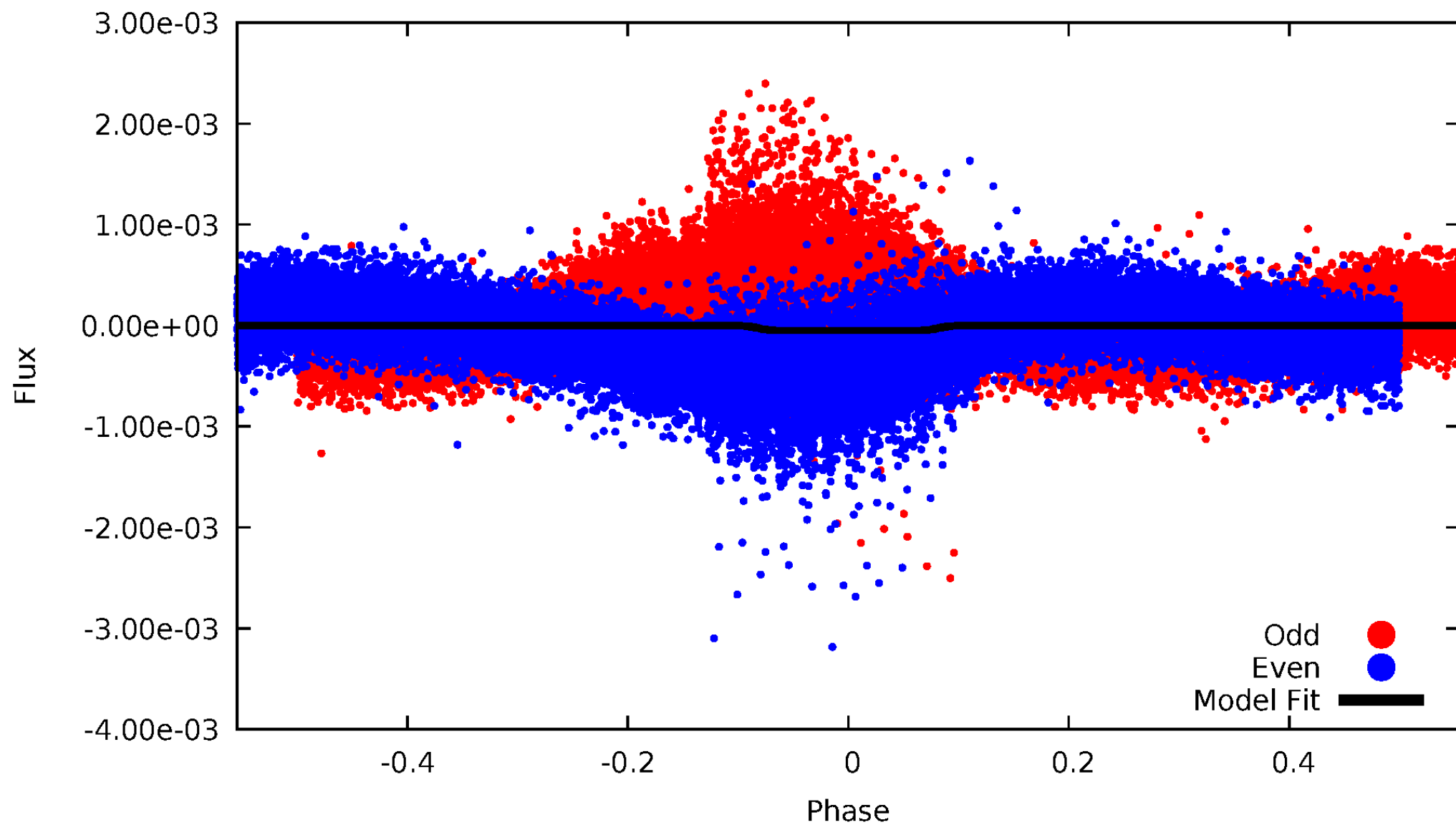
DV Odd/Even

TCE 007050100-01



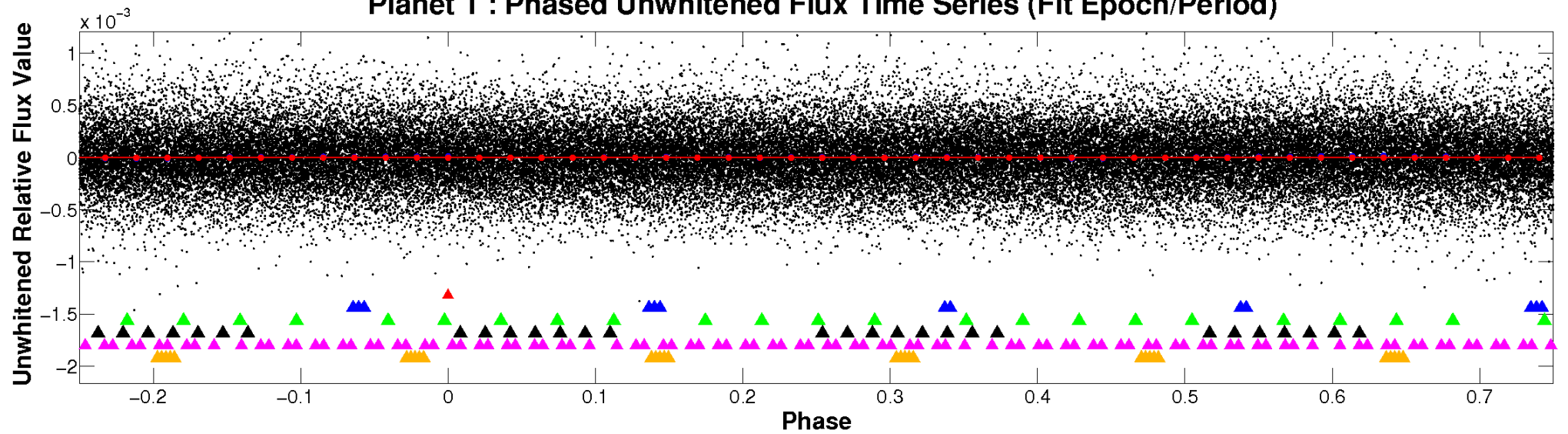
ALT Odd/Even

TCE 007050100-01

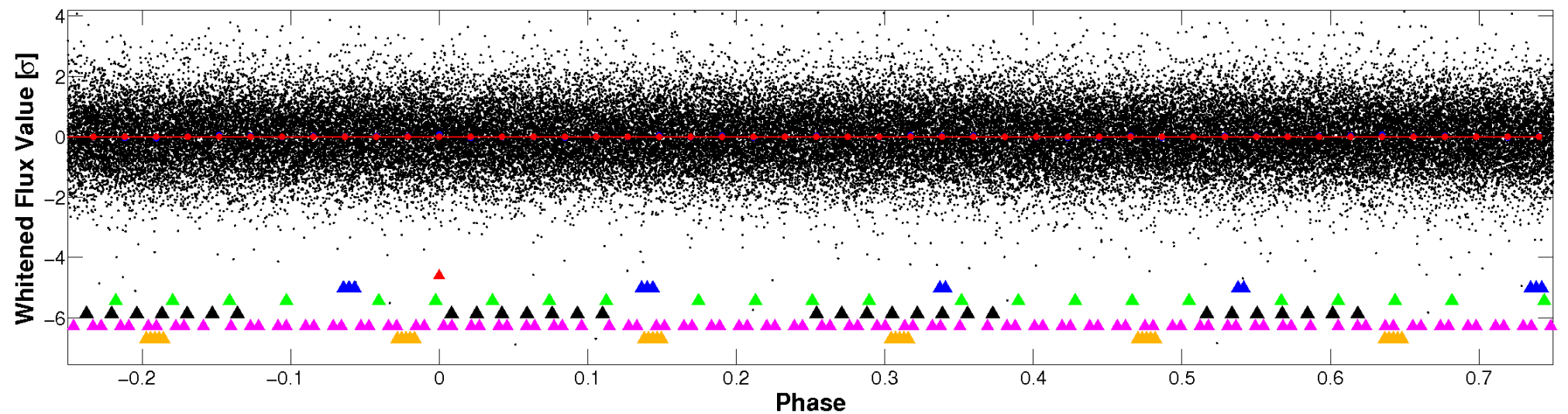


Non-Whitened Vs. Whitened Light Curve

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

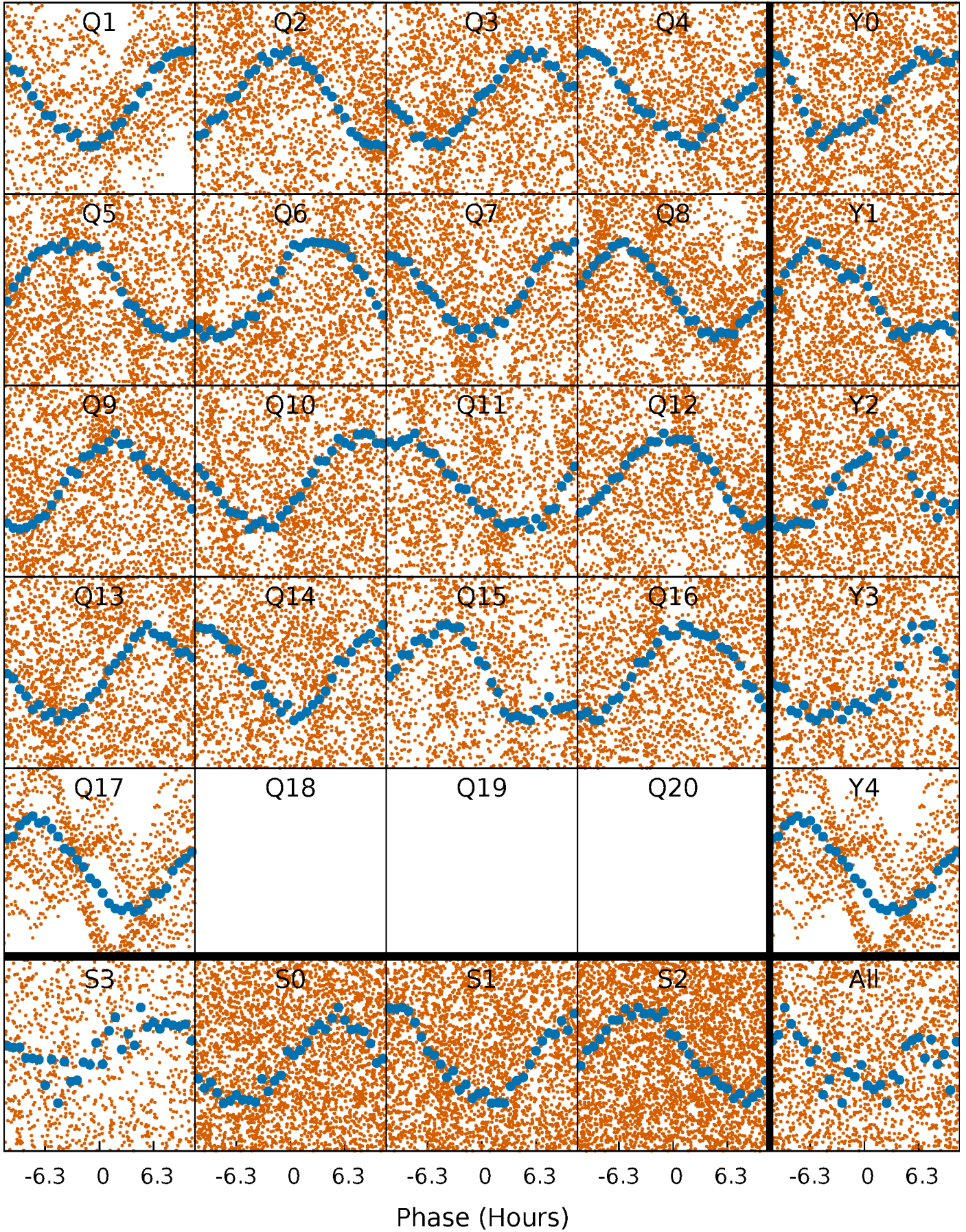


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



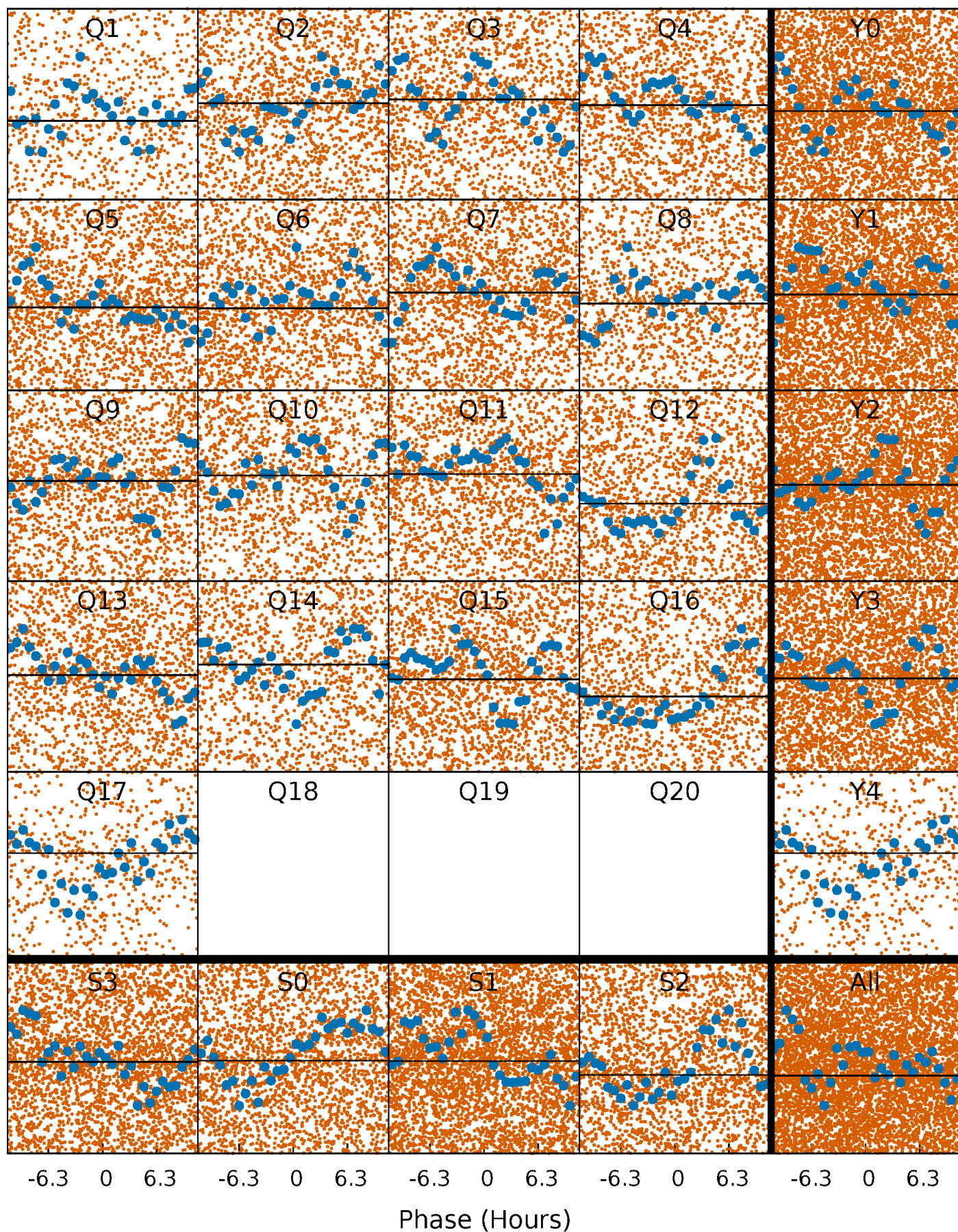
PDC Quarter-Phased Transit Curves

TCE 007050100-01 P= 0.965766 Days $T_0=132.304412$ (BKJD)



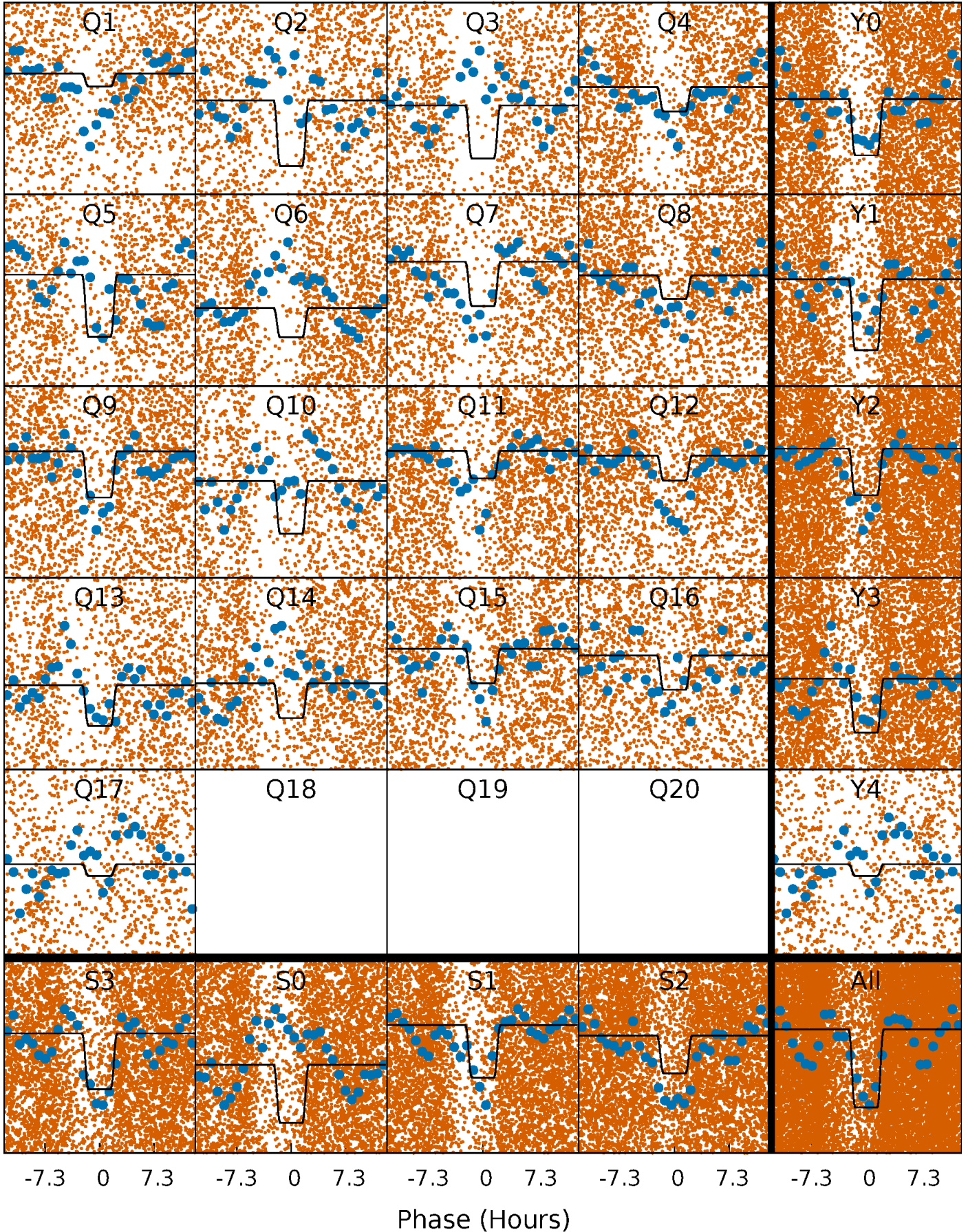
DV Quarter-Phased Transit Curves

TCE 007050100-01 P= 0.965766 Days $T_0=132.304412$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

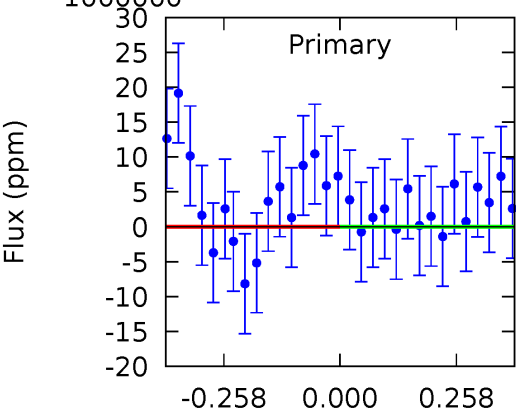
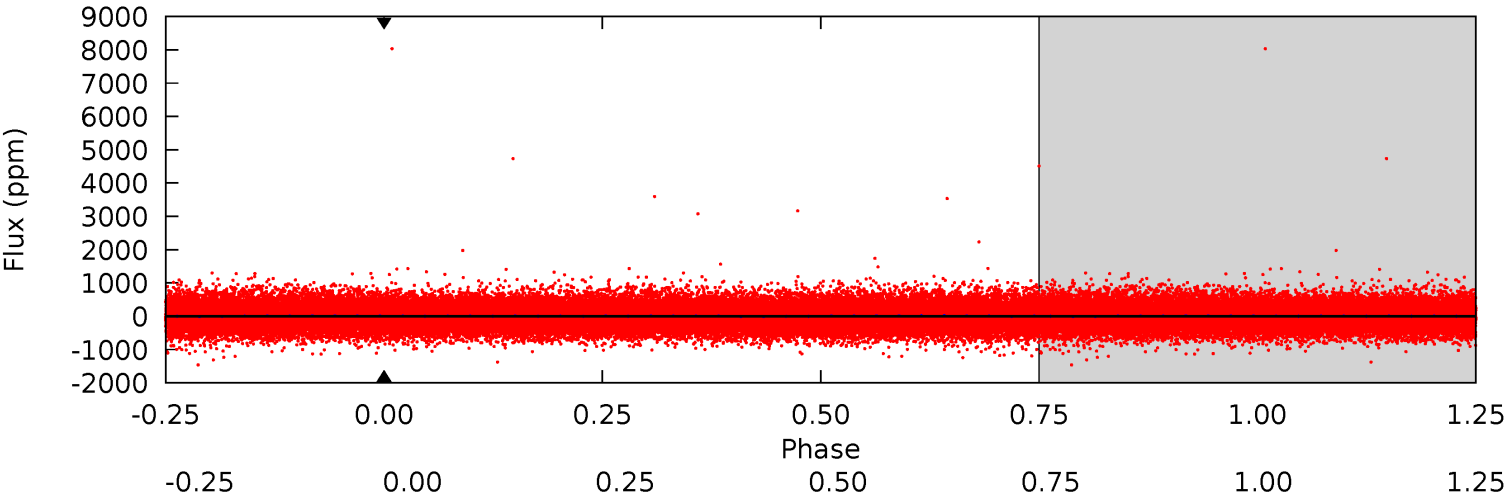
TCE 007050100-01 P= 0.966112 Days $T_0=132.302911$ (BKJD)



DV Model-Shift Uniqueness Test

007050100-01, P = 0.965766 Days, E = 131.338646 Days

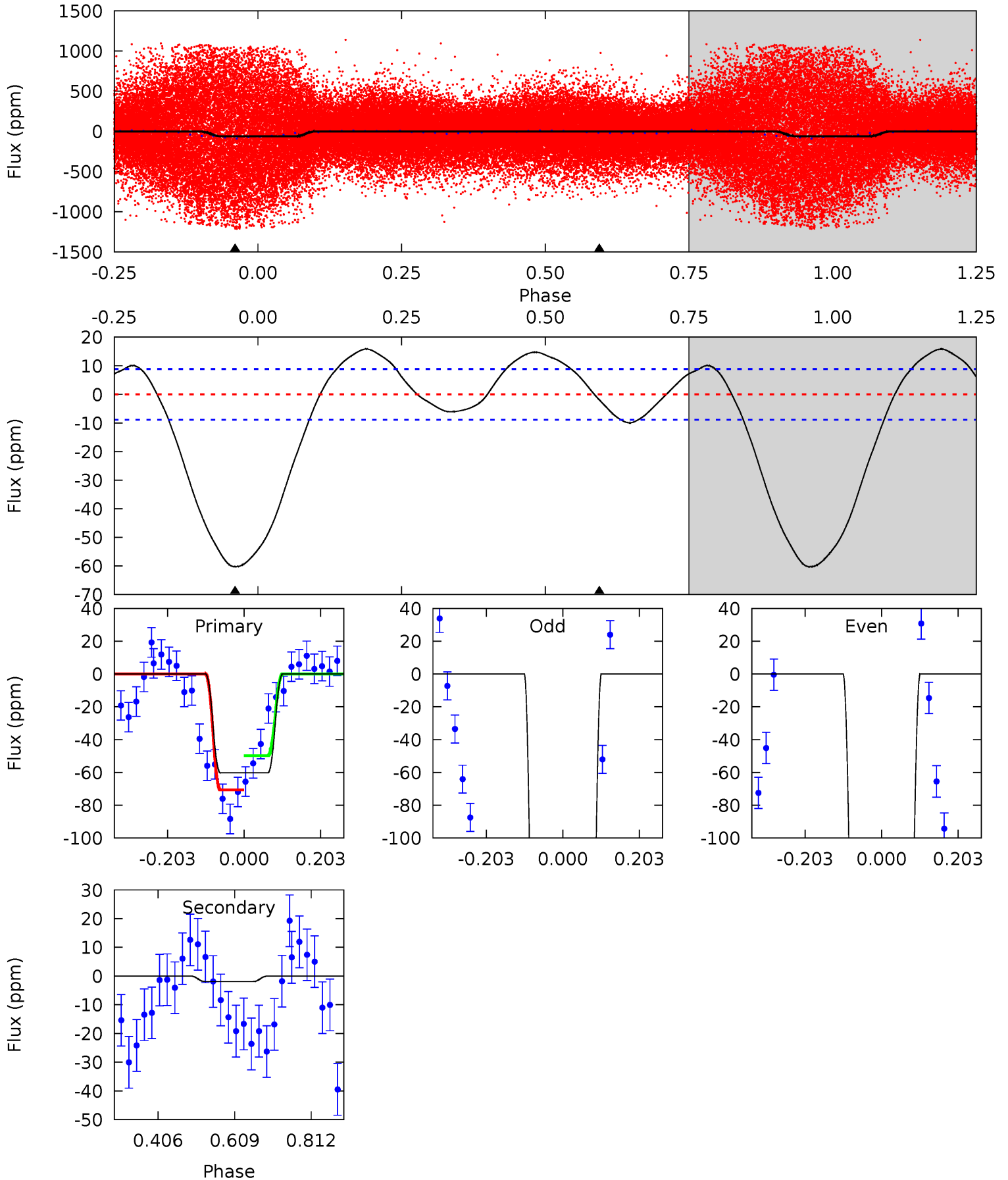
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007050100-01, P = 0.966112 Days, E = 131.336799 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
30.0	0.96	0	0	4.41	1.27	4.14	30.0	30.0	0.96	0.96	24.5	0.58	0.21	4.96



Stellar Parameters For KIC 007050100

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6498^{+334}_{-334}	$3.561^{+0.330}_{-0.110}$	$-0.180^{+0.350}_{-0.250}$	$3.542^{+0.436}_{-1.394}$	$1.665^{+0.213}_{-0.396}$	$0.053^{+0.130}_{-0.014}$
	+5%/-5%	+9%/-3%	+194%/-139%	+12%/-39%	+13%/-24%	+245%/-26%
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 007050100-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$52.63^{+52.72}_{-36.50}$	3380^{+1669}_{-759}	-4020^{+18268}_{-9971}	$0.011^{+84.382}_{-68.919}$
Alt.	-2 ± 2	$47.93^{+61.71}_{-32.04}$	3367^{+1627}_{-761}	-3292^{+478}_{-1022}	$0.001^{+0.008}_{-0.001}$

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 $A_{obs} \gg 1.0$

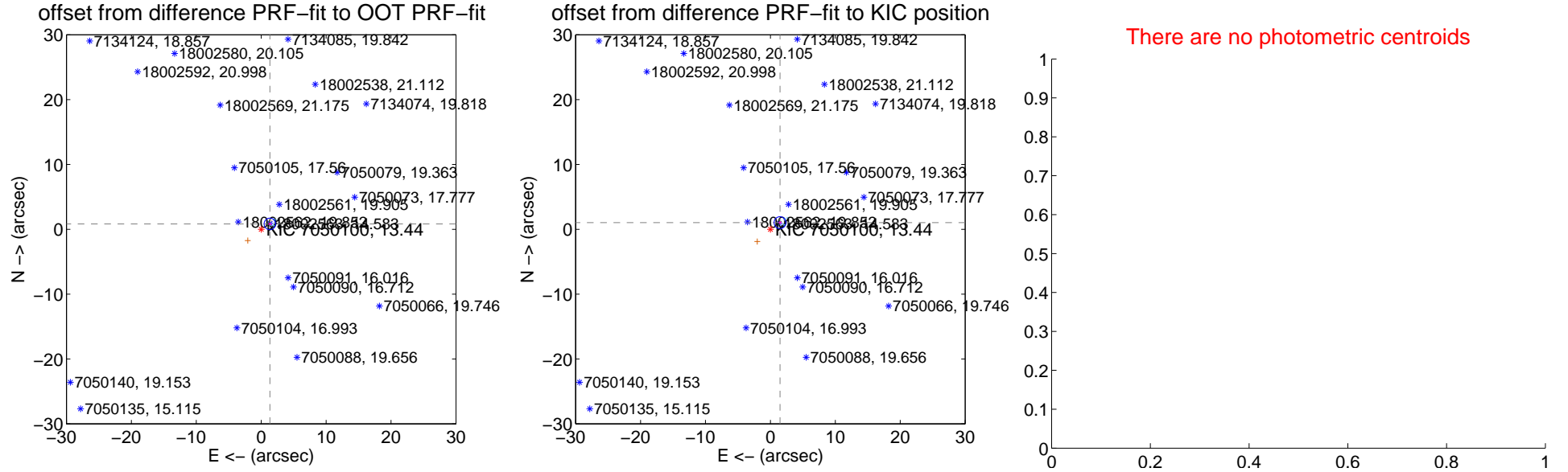
DV Centroid Data

Supplemental centroid analysis for 007050100-01. Kepler magnitude: 13.44. Transit SNR 0.00

There are 10 quarters with good PRF difference image offsets

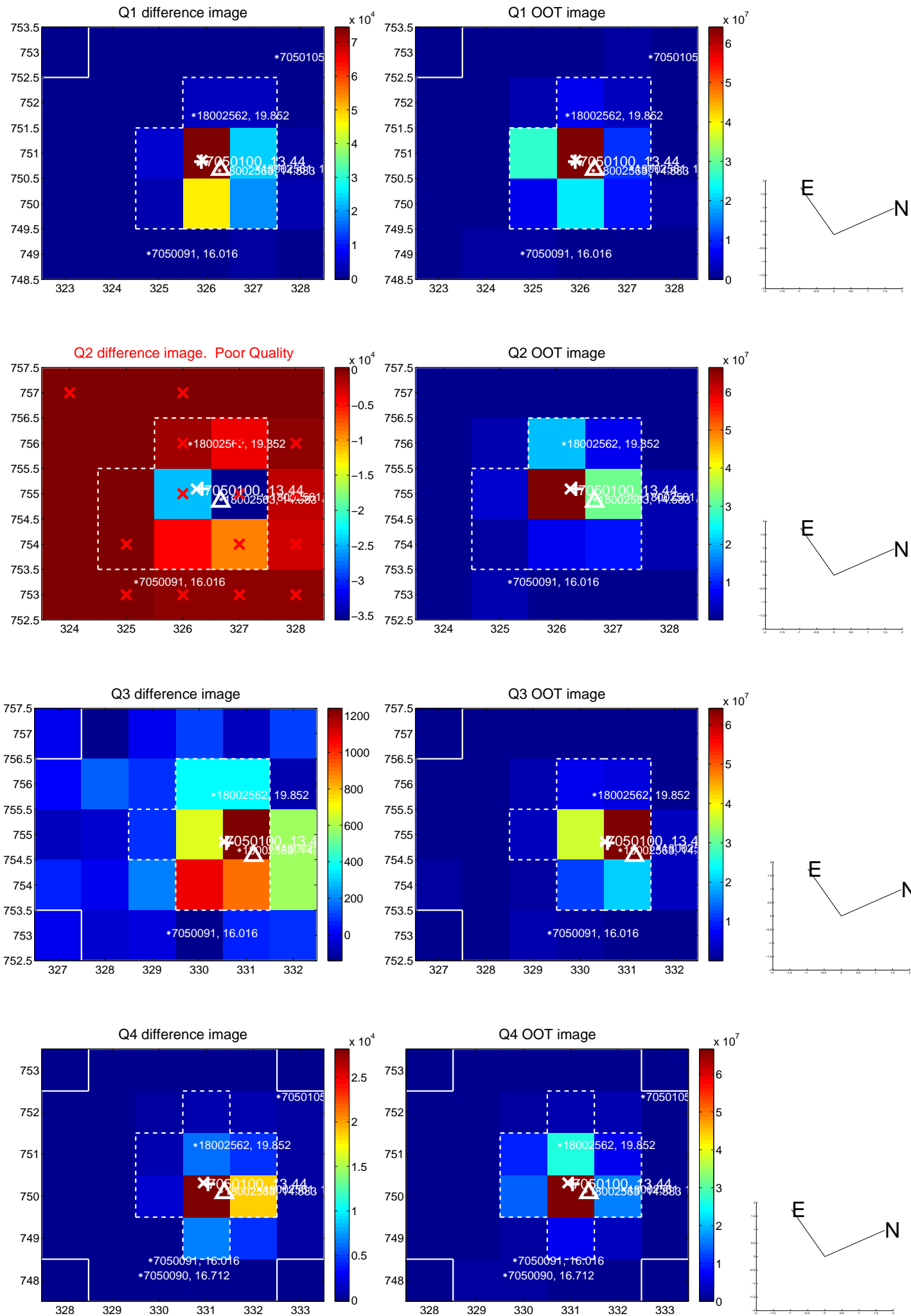
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.576 \pm 0.298	5.30	-1.337 \pm 0.247	0.834 \pm 0.189
PRF-fit source offset from KIC position	1.806 \pm 0.305	5.91	-1.483 \pm 0.248	1.030 \pm 0.198
photometric centroid source offset	—	—	—	—

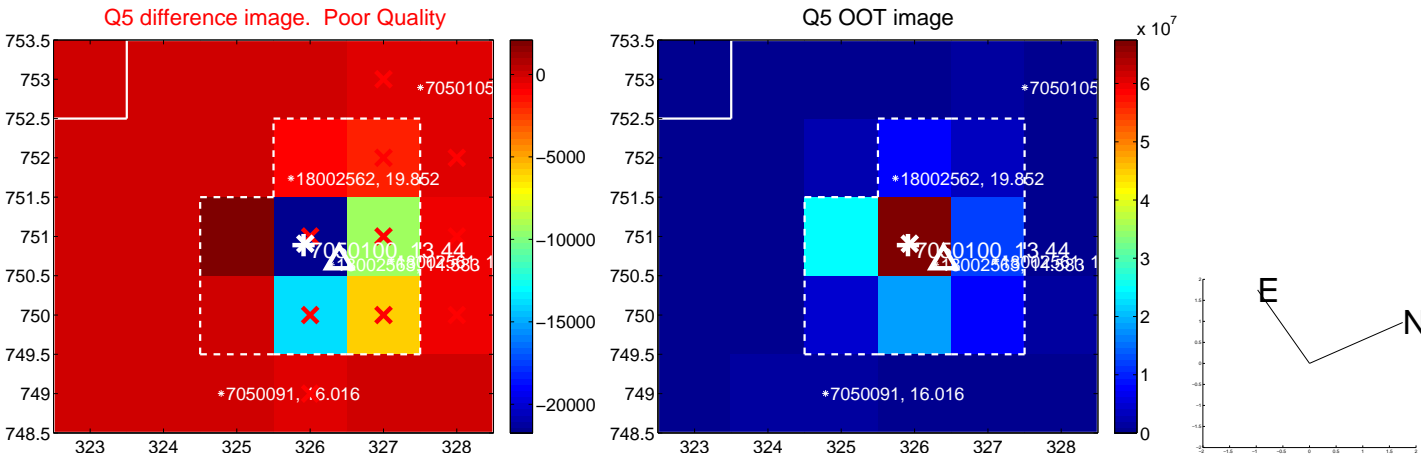


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

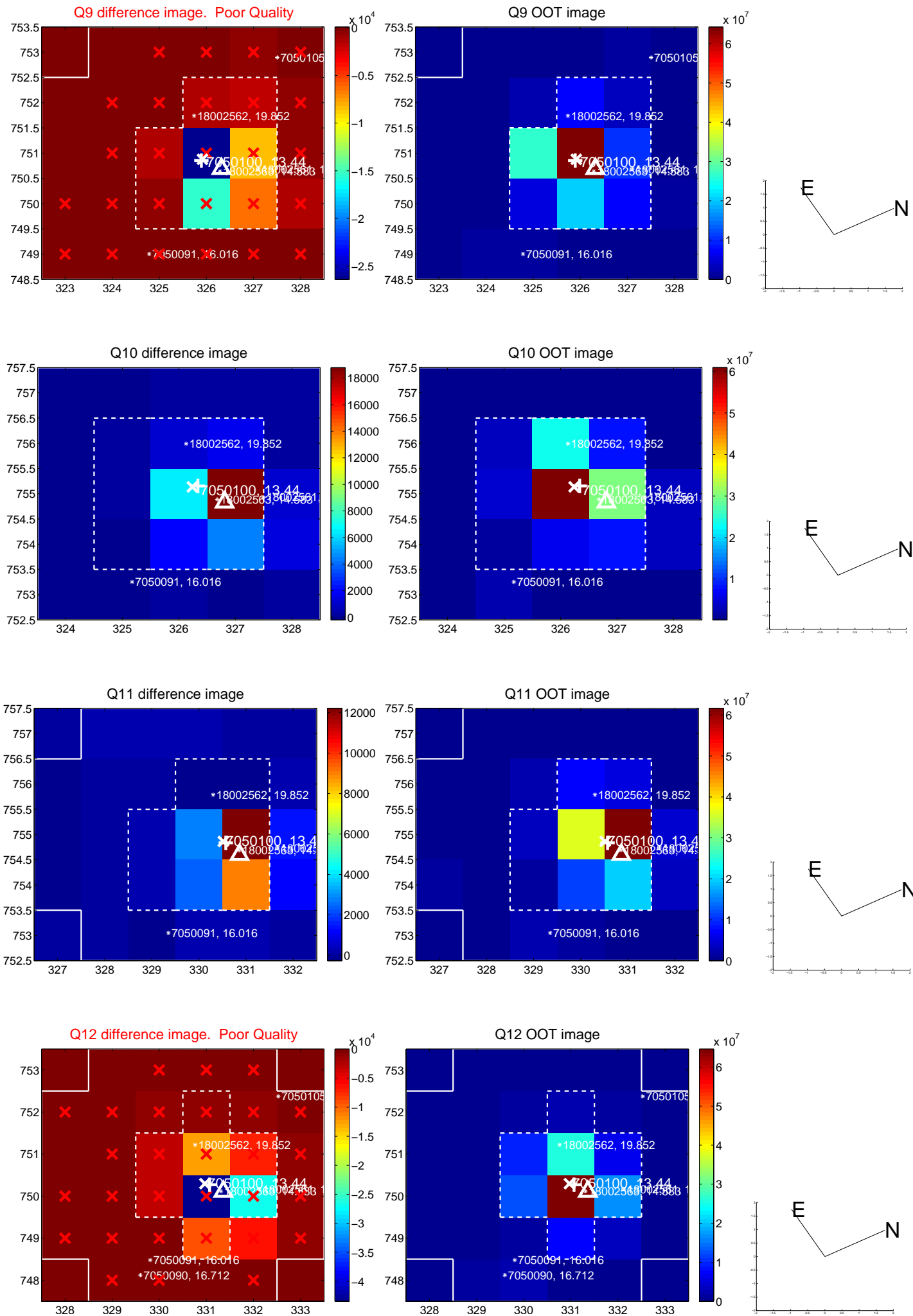
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



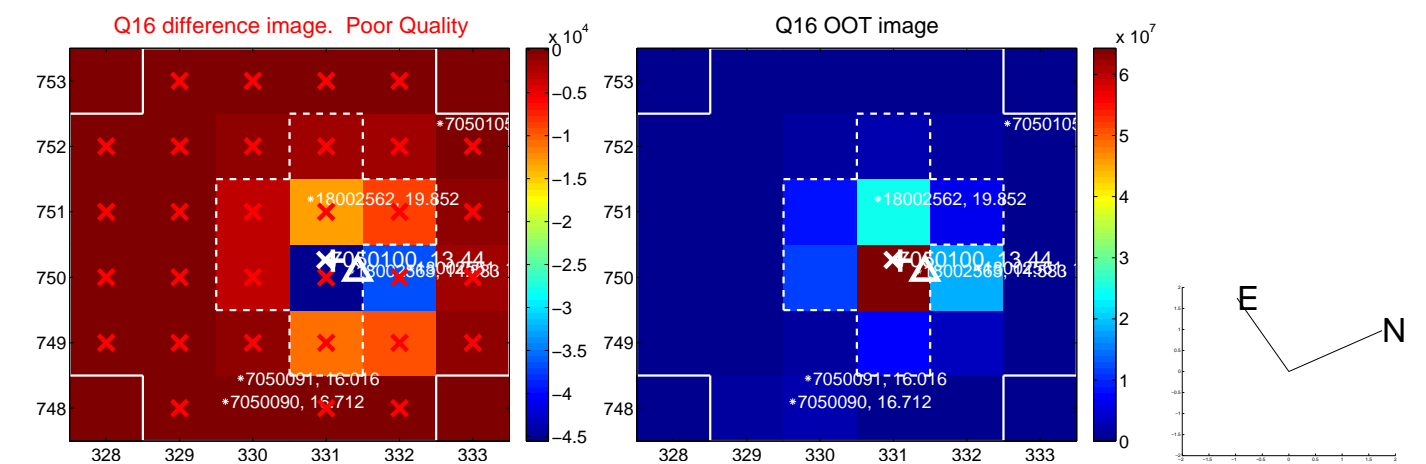
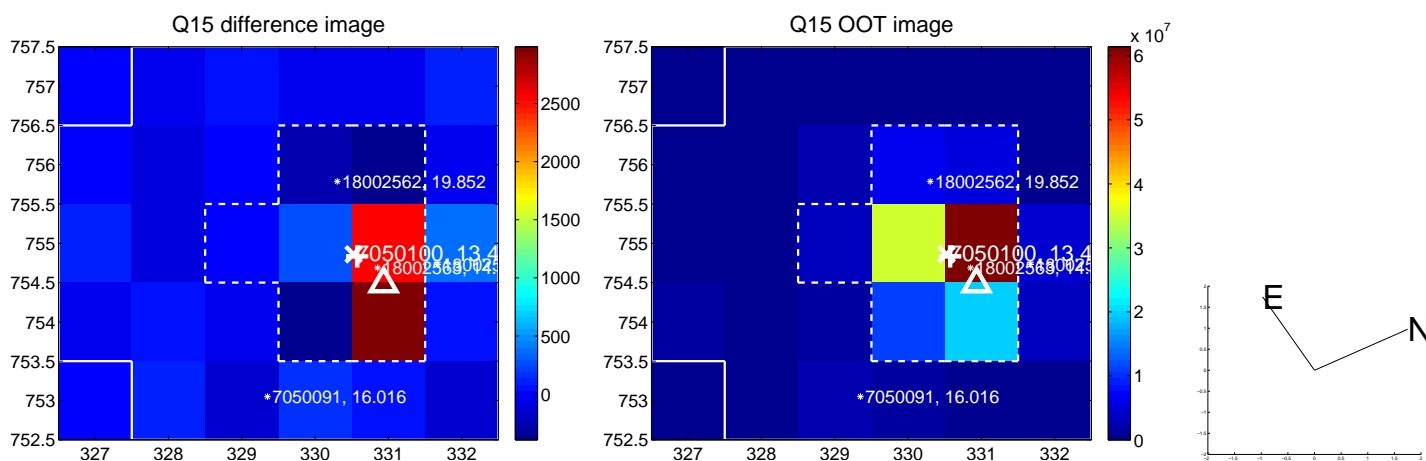
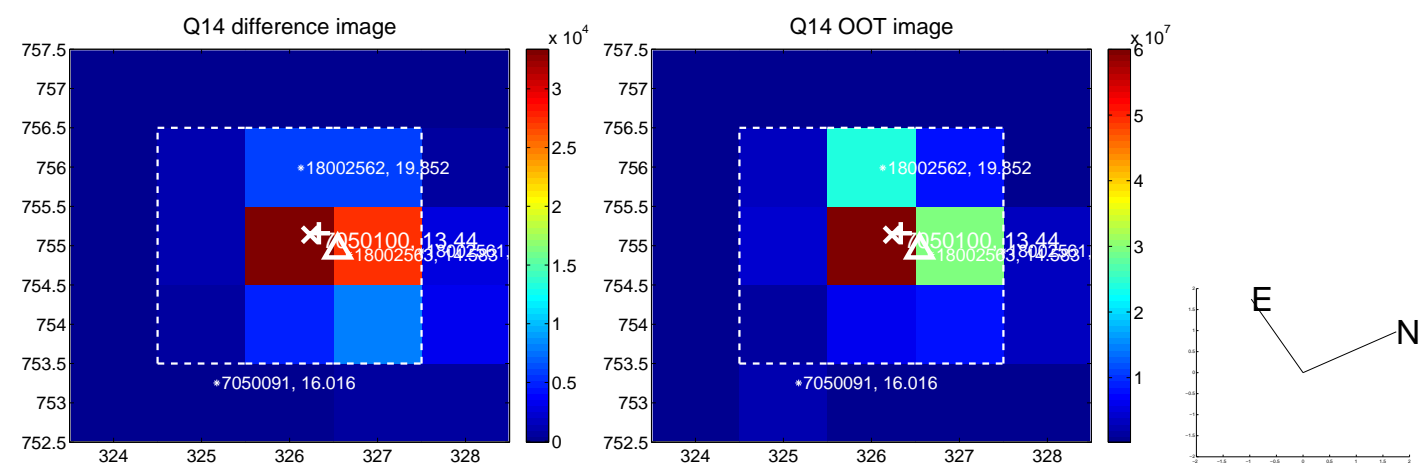
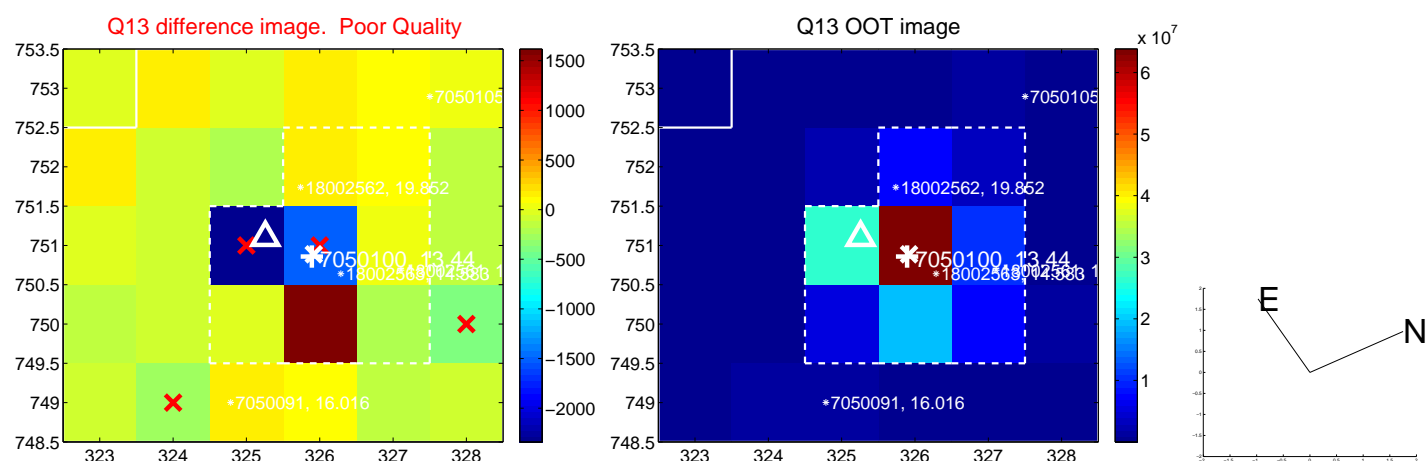
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



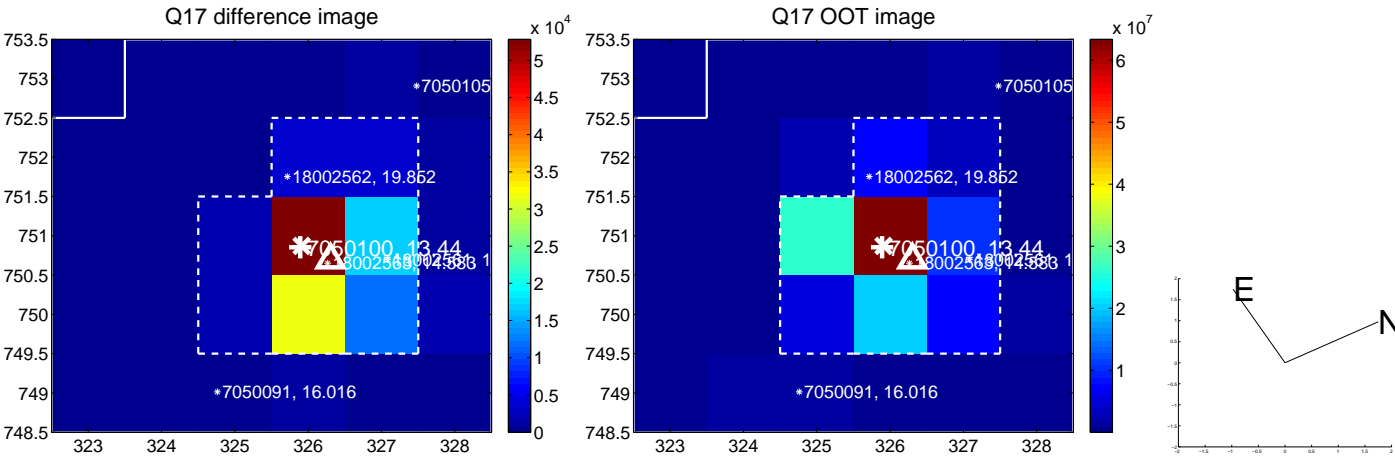
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



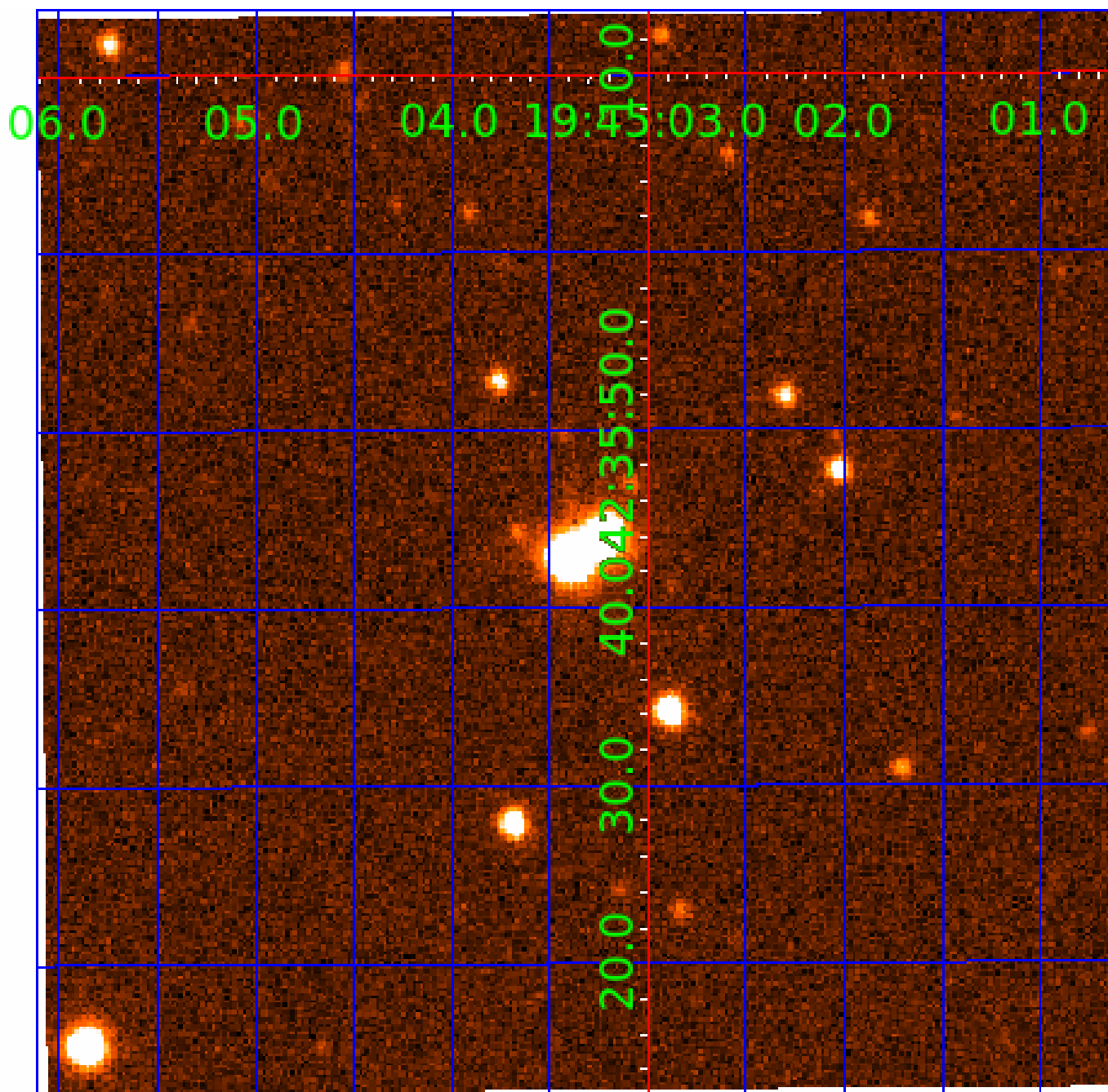
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 007050100

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})
007050100-01	OBS	No	0.965766	132.304412	0.0	5.543	10.1	0.0	3.54	6498	0.00	38995.66
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007050100-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET
007050100-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_UNRESOLVED_OFFSET
007050100-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_UNRESOLVED_OFFSET
007050100-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_UNRESOLVED_OFFSET
007050100-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET

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

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

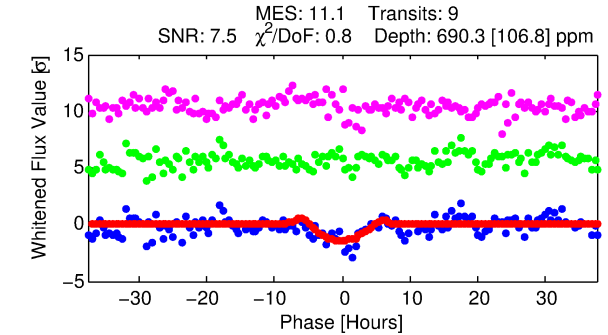
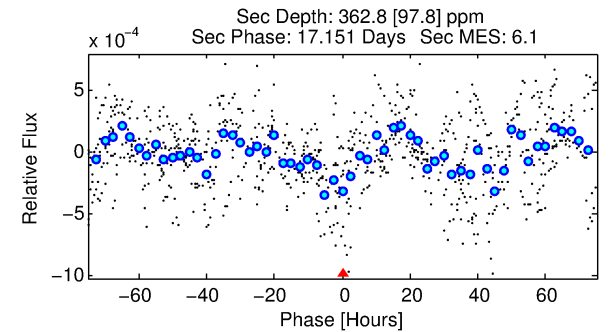
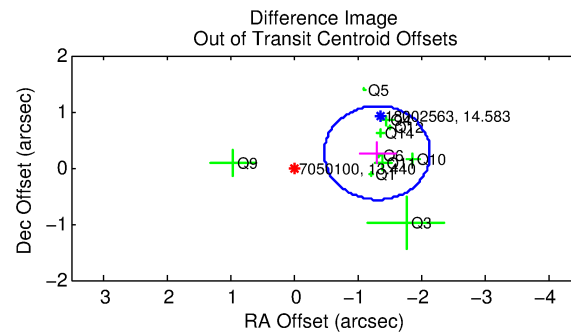
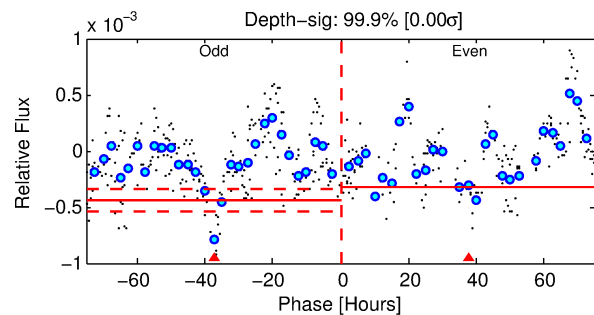
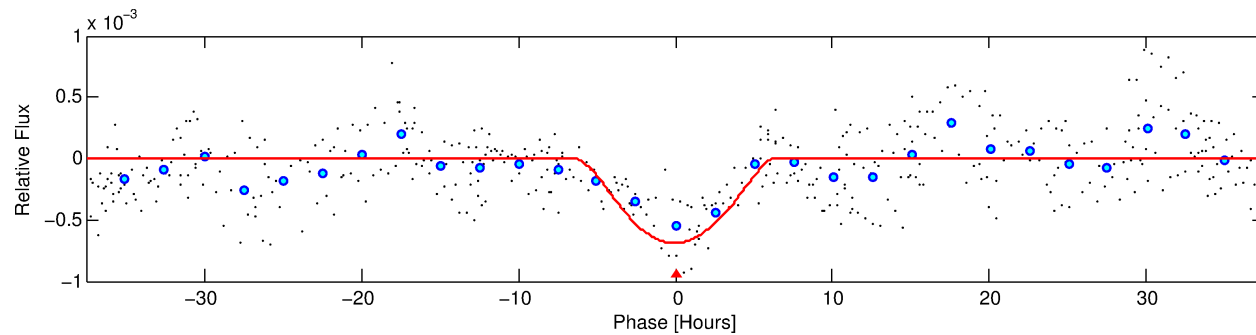
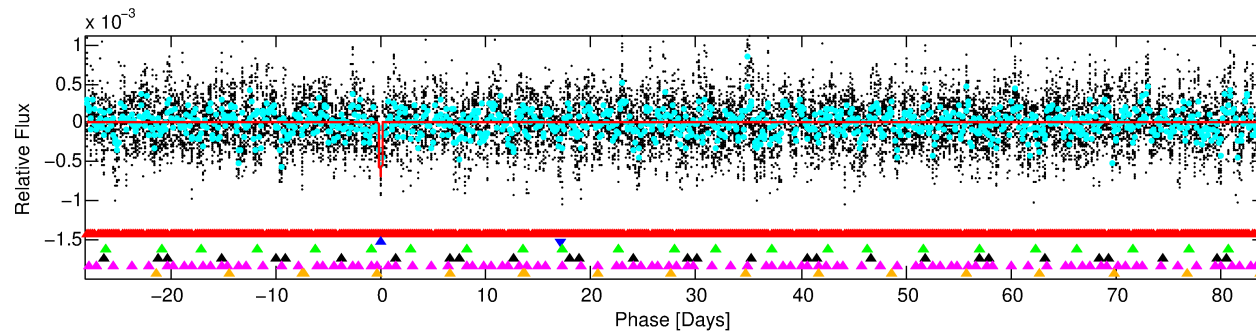
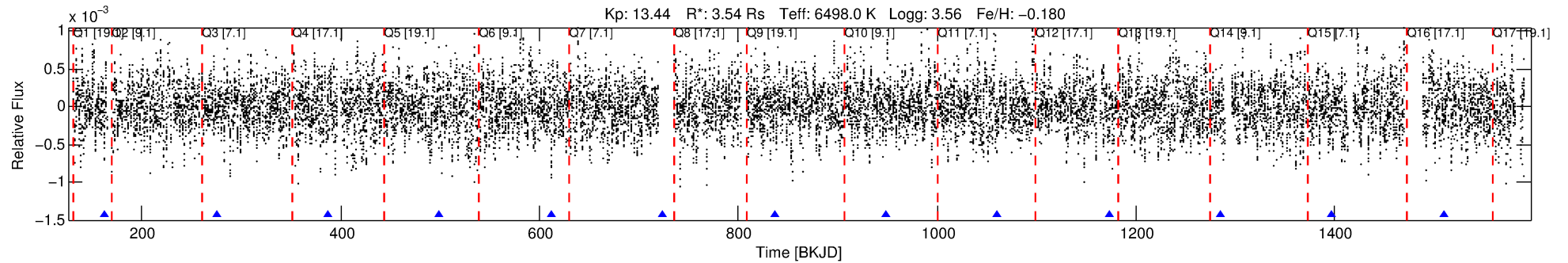
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007050100-02

No Significant Match Found

DV One-Page Summary

KIC: 7050100 Candidate: 2 of 6 Period: 112.223 d



DV Fit Results:

Period = 112.22274 [0.00344] d
Epoch = 162.9528 [0.0233] BKJD
Rp/R* = 0.0457 [0.0733]
a/R* = 21.04 [8.08]
b = 1.00 [0.10]
Seff = 68.77 [41.70]
Teff = 734 [111] K
Rp = 17.68 [29.16] Re
a = 0.5398 [0.1969] AU
Ag = 186.14 [607.83] [0.30σ]
Teffp = 4194 [3378] K [1.02σ]

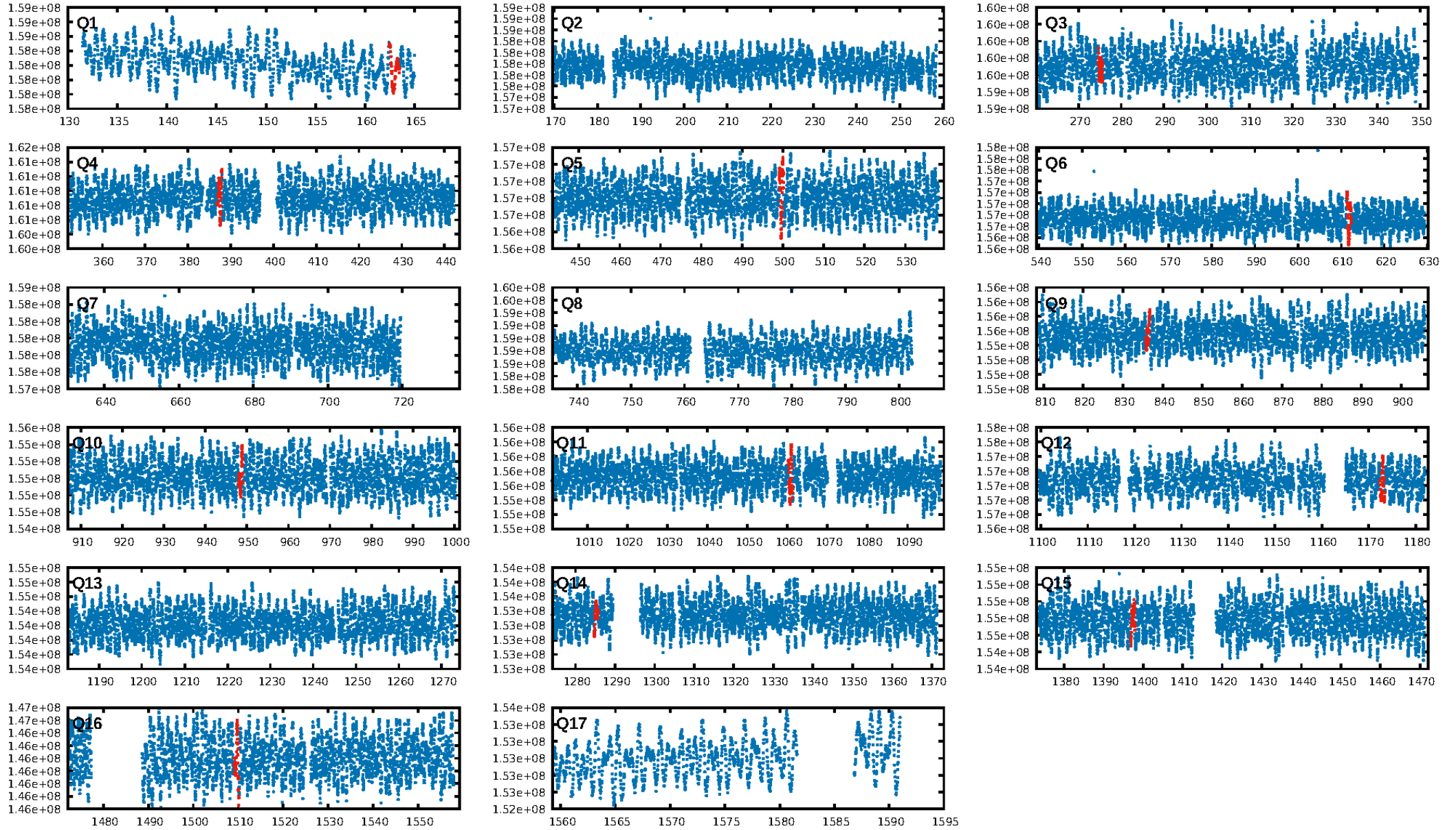
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [78.84σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 85.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [8/8]
GhostDiagnostic-chr: -1.854
Centroid-sig: 0.1%
Centroid-so: 1.190 arcsec [3.17σ]
OotOffset-rm: 1.337 arcsec [4.81σ]
KicOffset-rm: 1.738 arcsec [6.90σ]
OotOffset-st: 3/2/2/3 [10]
KicOffset-st: 3/2/2/3 [10]
DiffImageQuality-fgm: 0.70 [7/10]
DiffImageOverlap-fno: 0.00 [0/10]

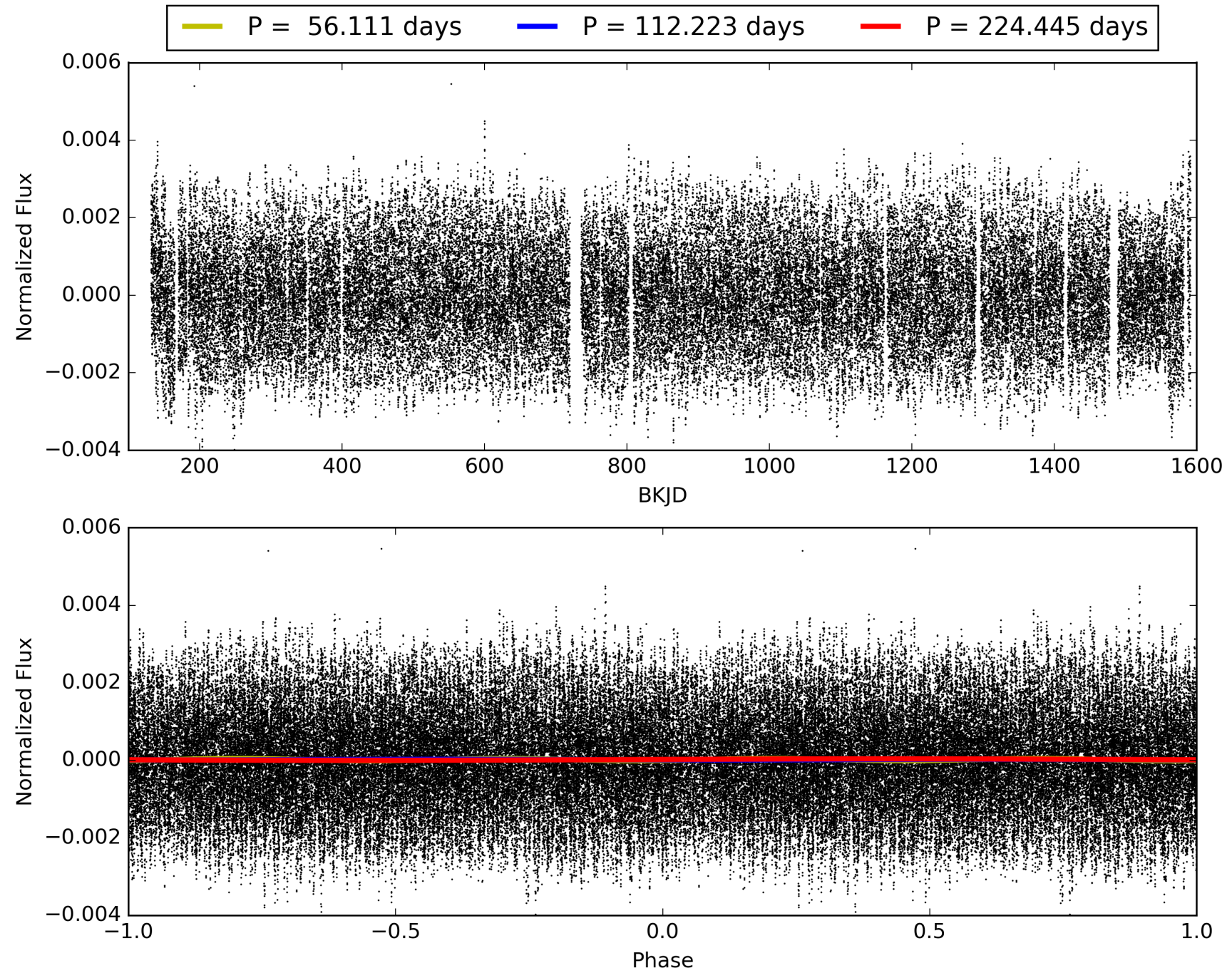
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 07:56:10 Z

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

TCE 007050100-02, PDC Light Curves

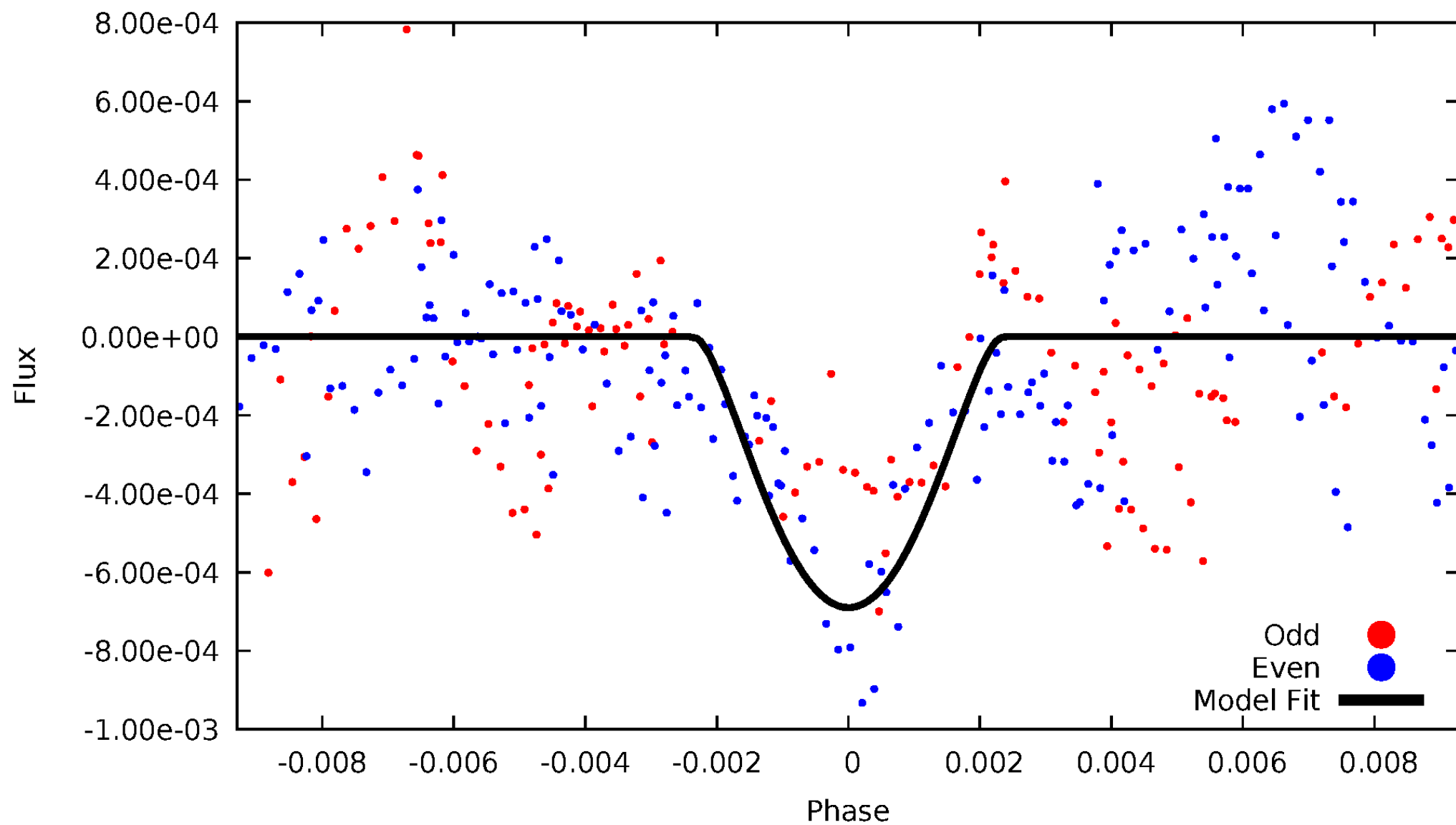


TCE 007050100-02



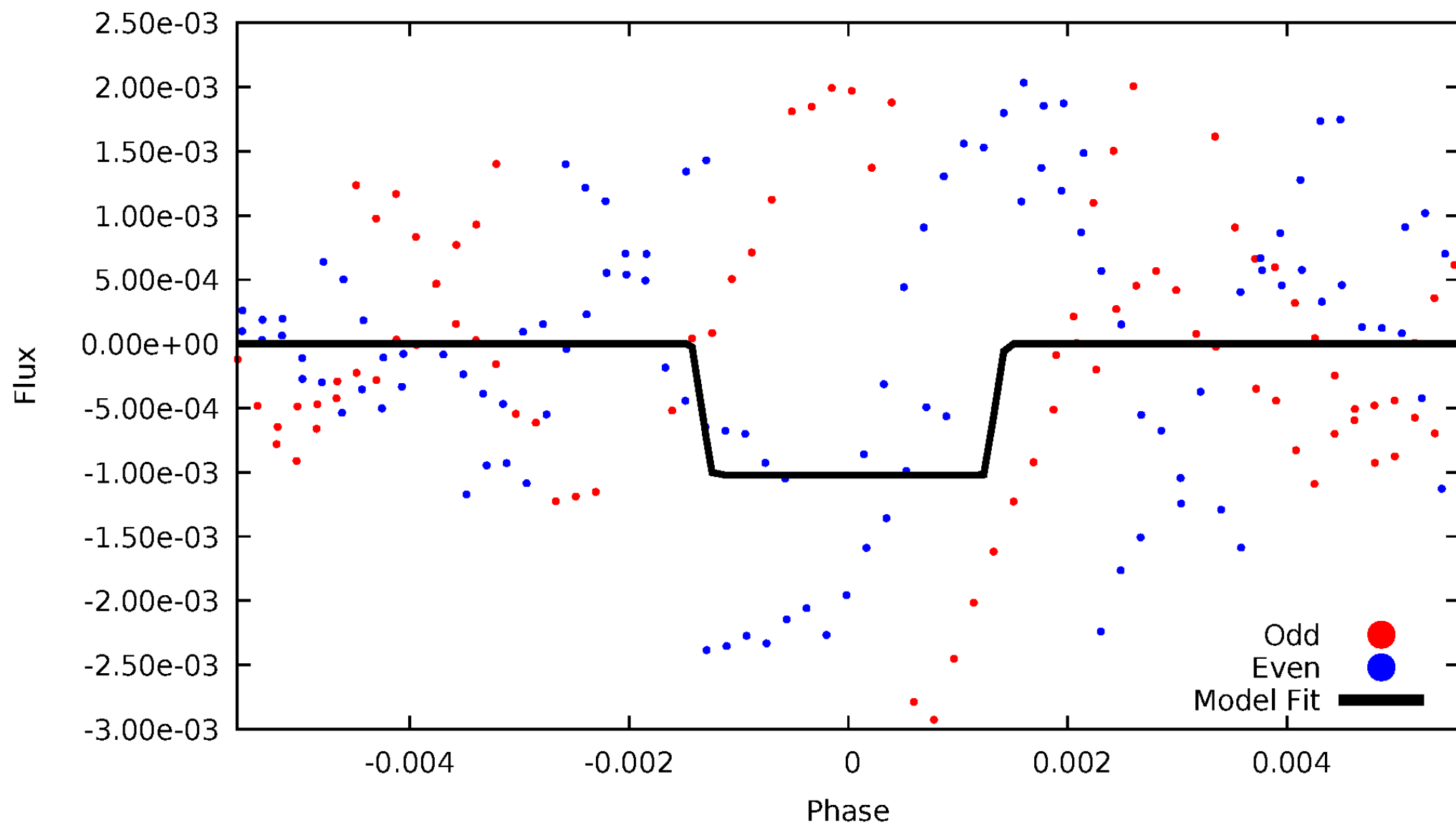
DV Odd/Even

TCE 007050100-02



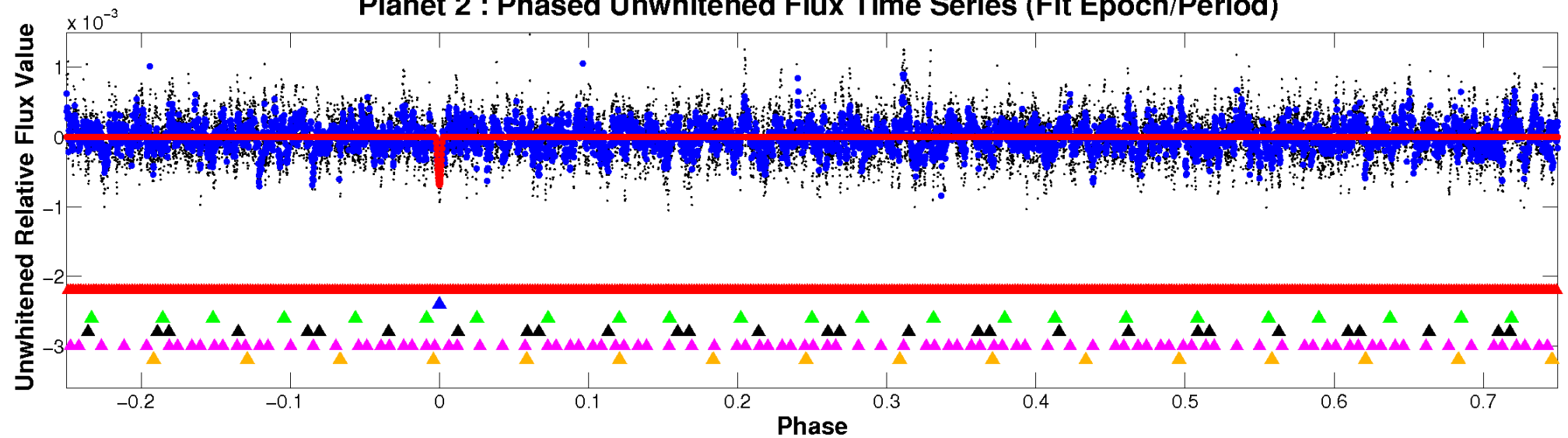
ALT Odd/Even

TCE 007050100-02

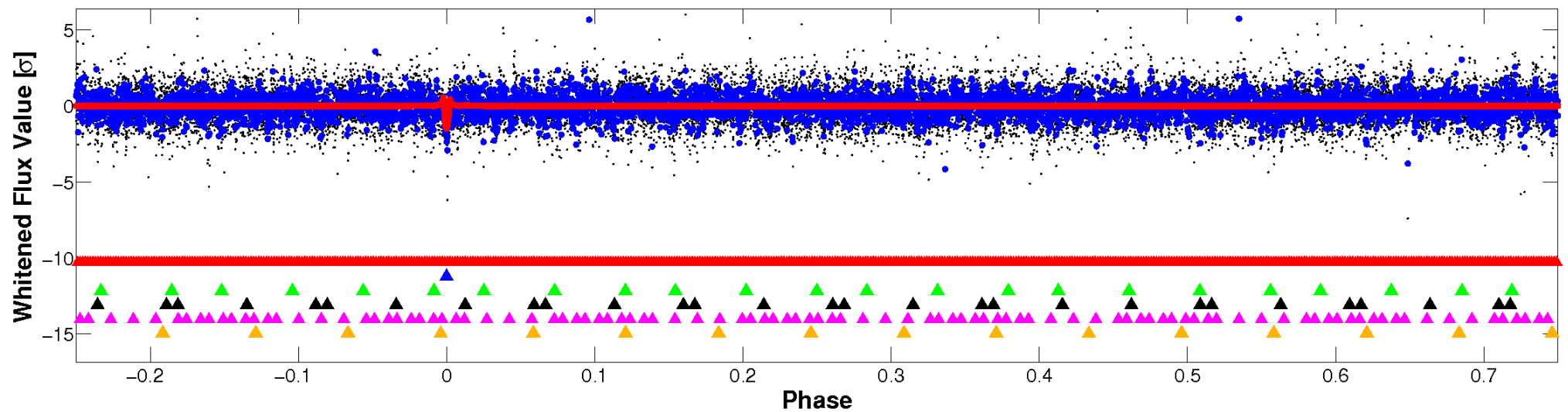


Non-Whitened Vs. Whitened Light Curve

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

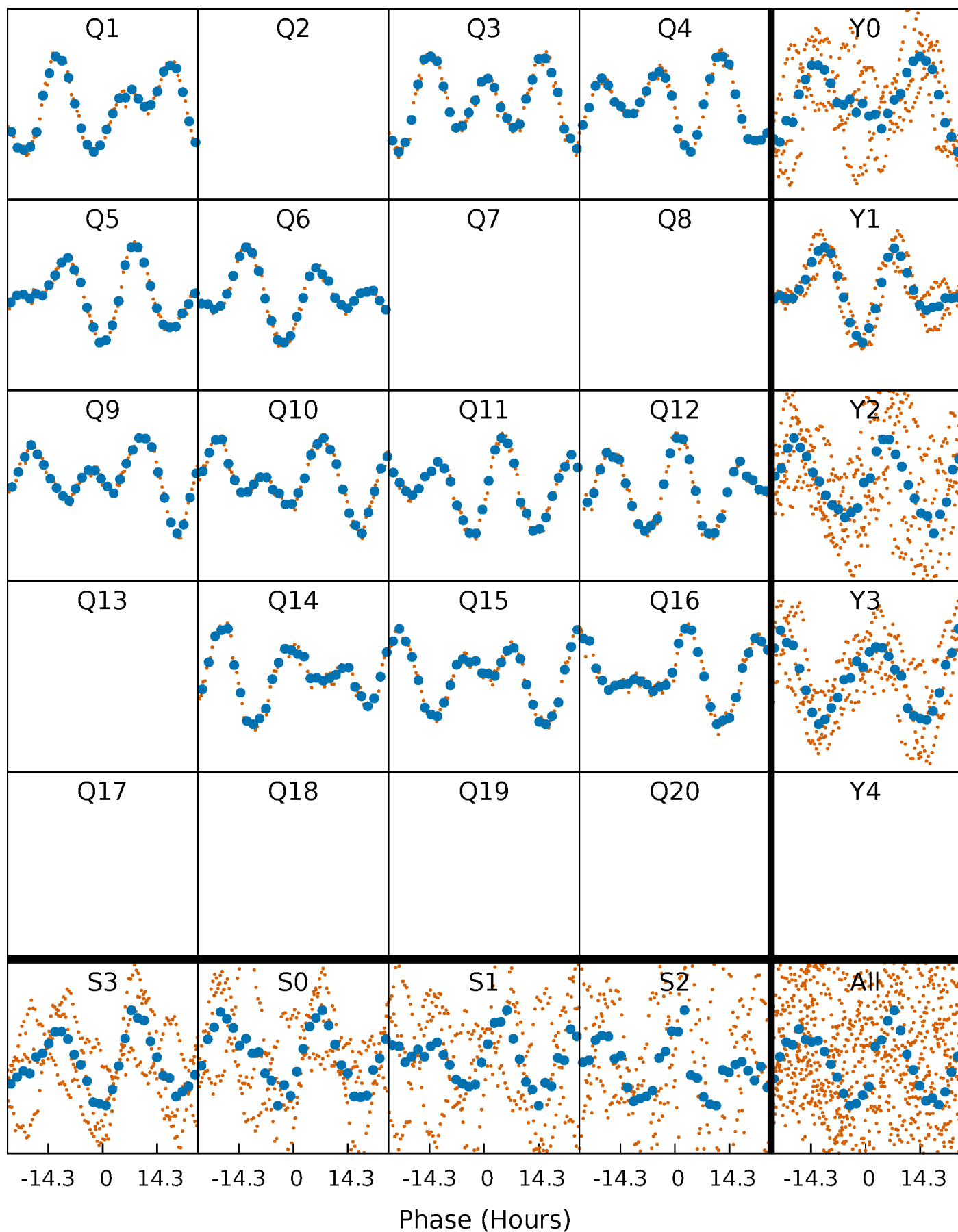


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



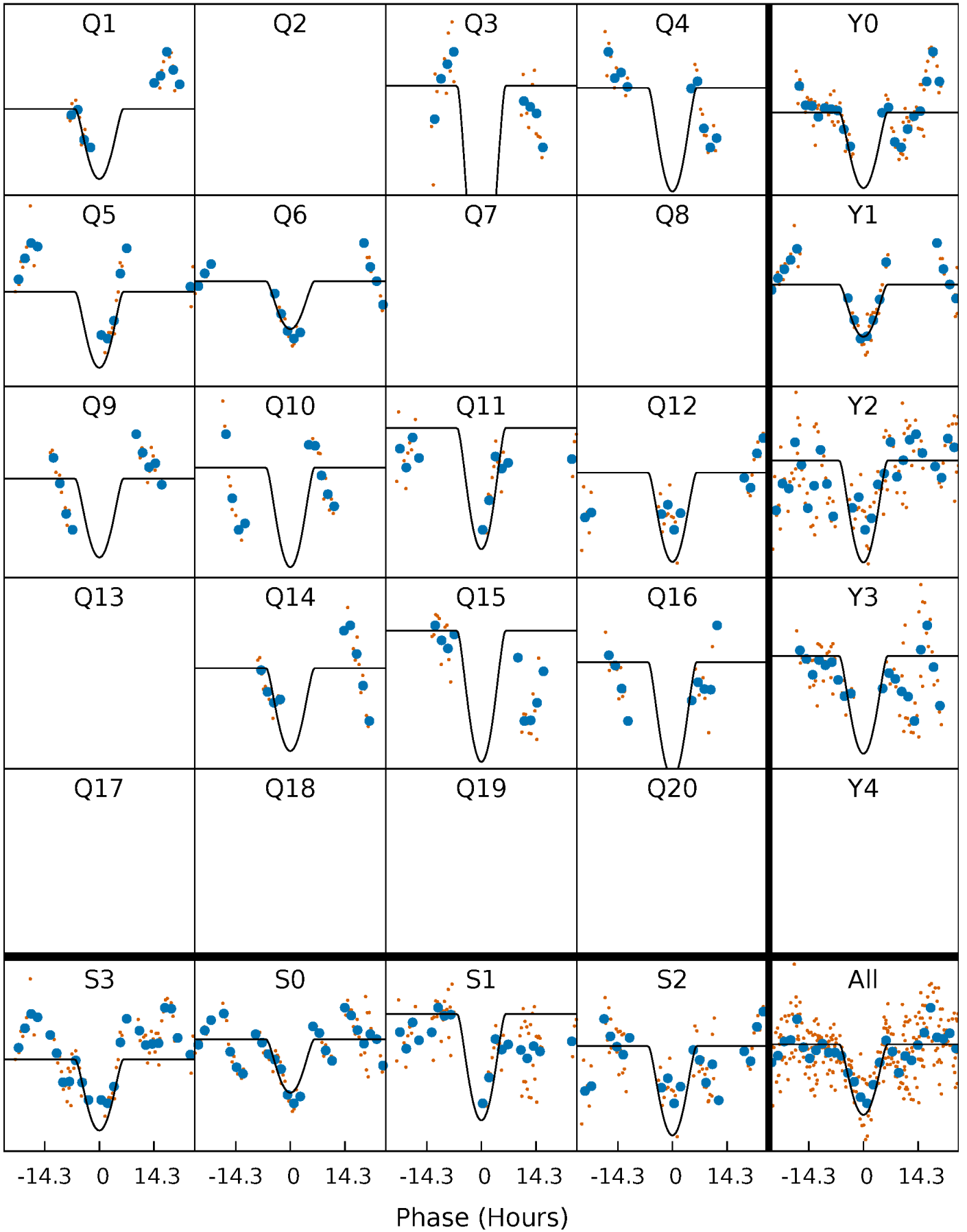
PDC Quarter-Phased Transit Curves

TCE 007050100-02 P=112.222739 Days $T_0=162.952825$ (BKJD)



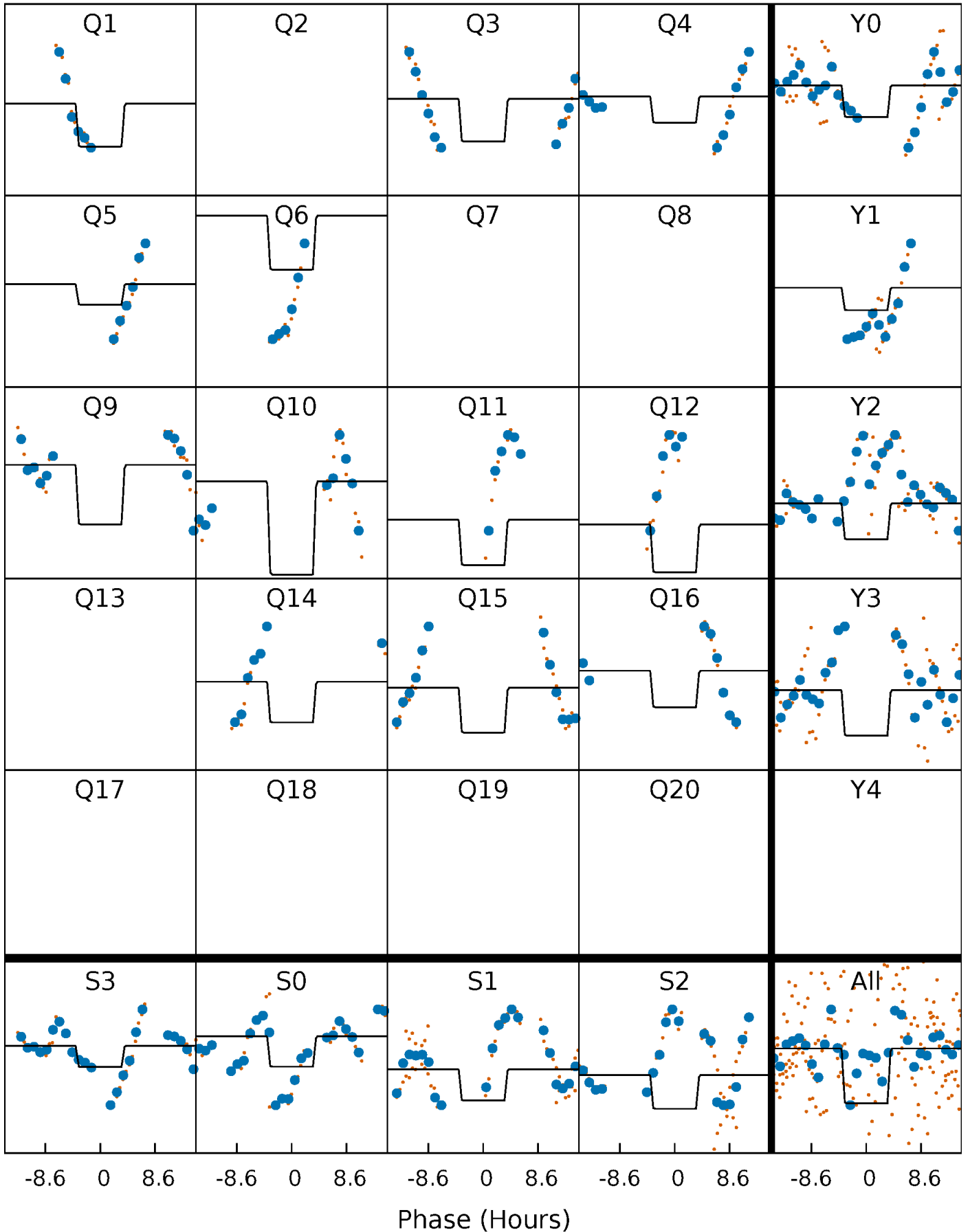
DV Quarter-Phased Transit Curves

TCE 007050100-02 P=112.222739 Days $T_0=162.952825$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

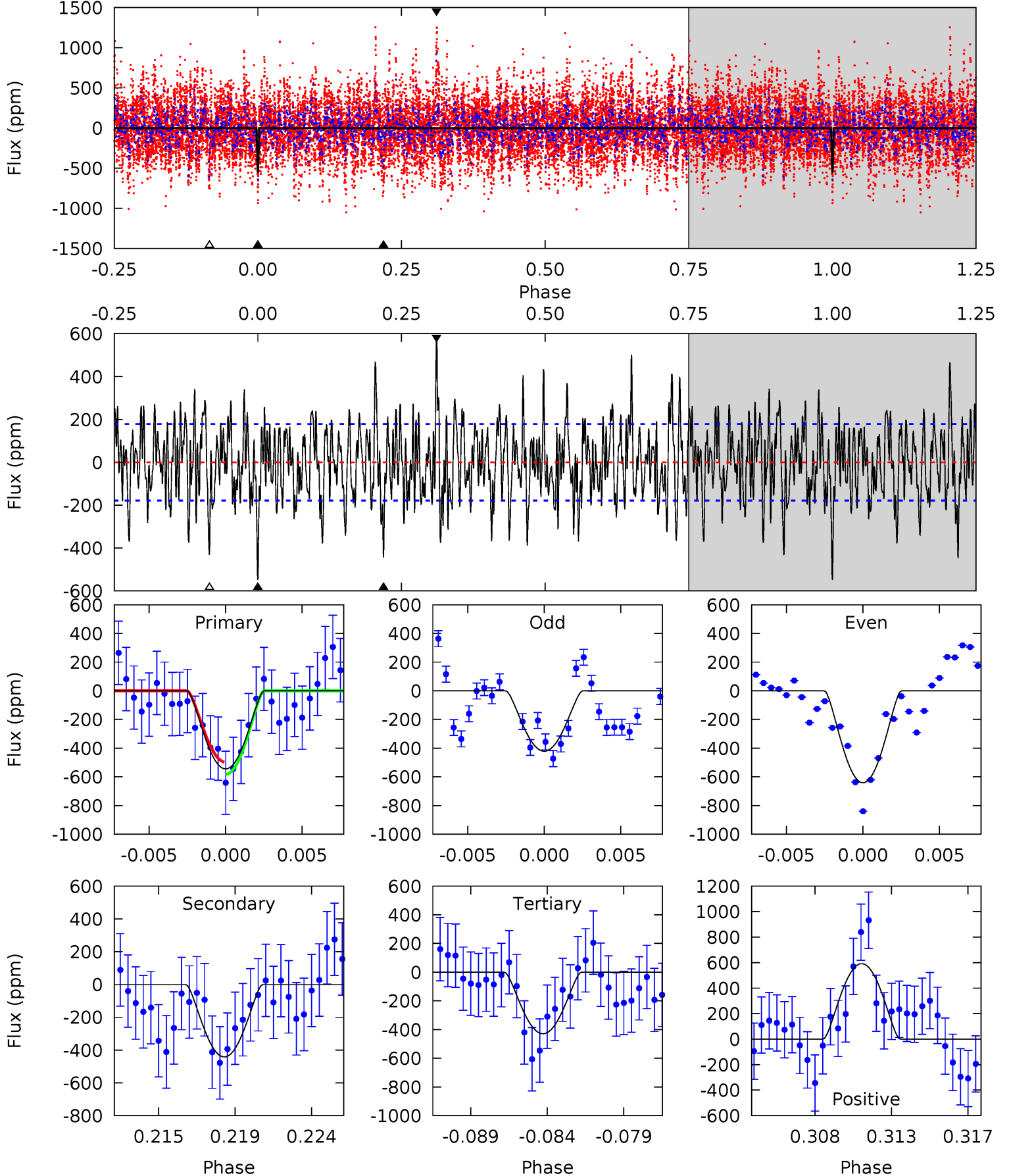
TCE 007050100-02 $P=112.231475$ Days $T_0=162.902623$ (BKJD)



DV Model-Shift Uniqueness Test

007050100-02, $P = 112.222739$ Days, $E = 50.730086$ Days

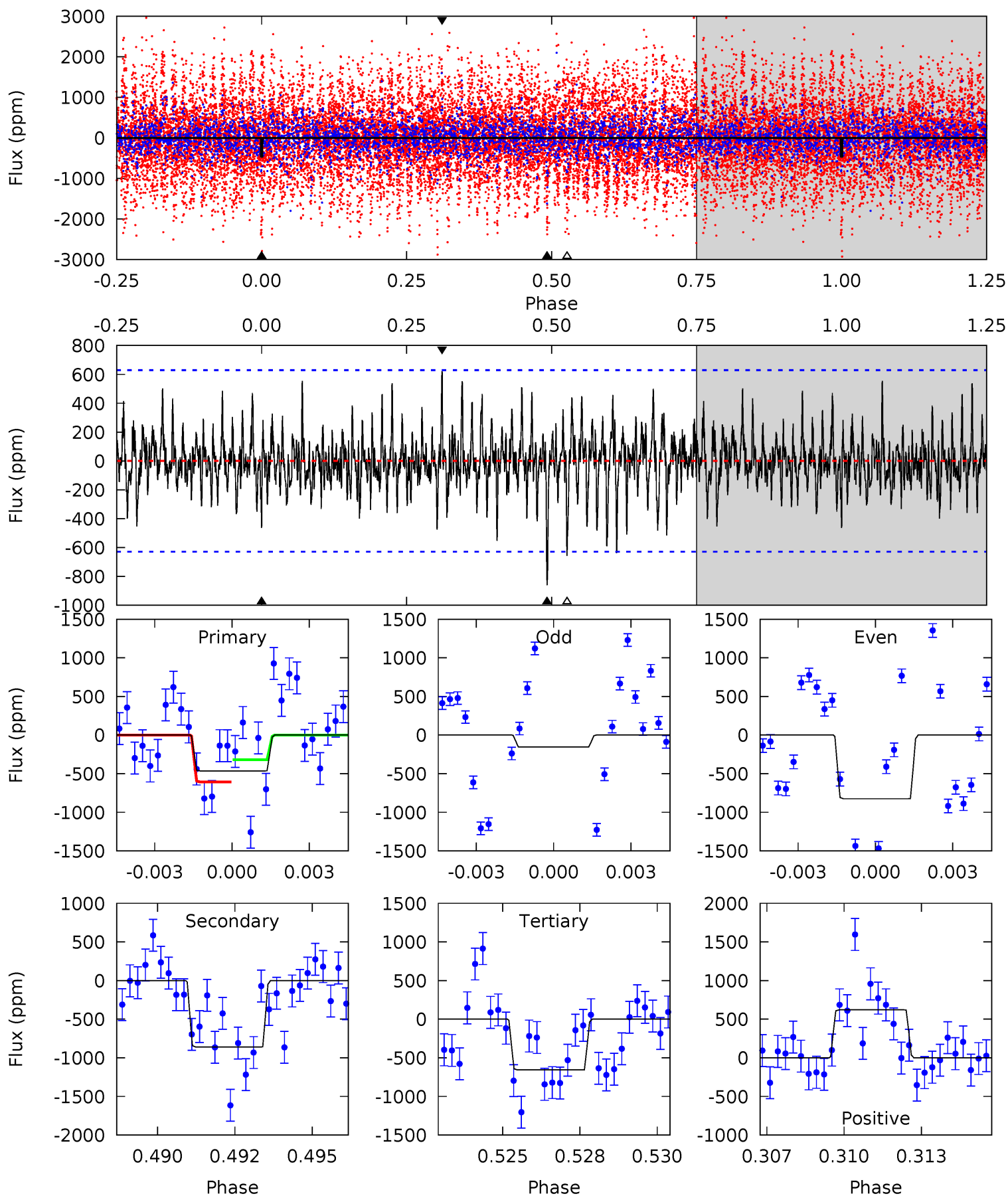
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.8	12.8	12.4	17.1	5.17	2.83	4.38	3.35	-1.36	0.38	-4.34	3.13	0.85	0.52	1.22



Alt Model-Shift Uniqueness Test

007050100-02, $P = 112.231475$ Days, $E = 50.671148$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.89	7.21	5.50	5.21	5.27	3.00	1.31	-1.61	-1.31	1.71	2.01	2.71	0.75	0.42	1.21



Stellar Parameters For KIC 007050100

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6498^{+334}_{-334}	$3.561^{+0.330}_{-0.110}$	$-0.180^{+0.350}_{-0.250}$	$3.542^{+0.436}_{-1.394}$	$1.665^{+0.213}_{-0.396}$	$0.053^{+0.130}_{-0.014}$
	+5%/-5%	+9%/-3%	+194%/-139%	+12%/-39%	+13%/-24%	+245%/-26%
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 007050100-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-442 ± 35	$25.97^{+23.47}_{-17.87}$	1011^{+83}_{-99}	3888^{+2243}_{-741}	104^{+961}_{-74}
Alt.	-860 ± 119	$23.42^{+21.54}_{-16.44}$	1004^{+83}_{-114}	4555^{+3370}_{-944}	253^{+2652}_{-186}

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 $A_{obs} \gg 1.0$

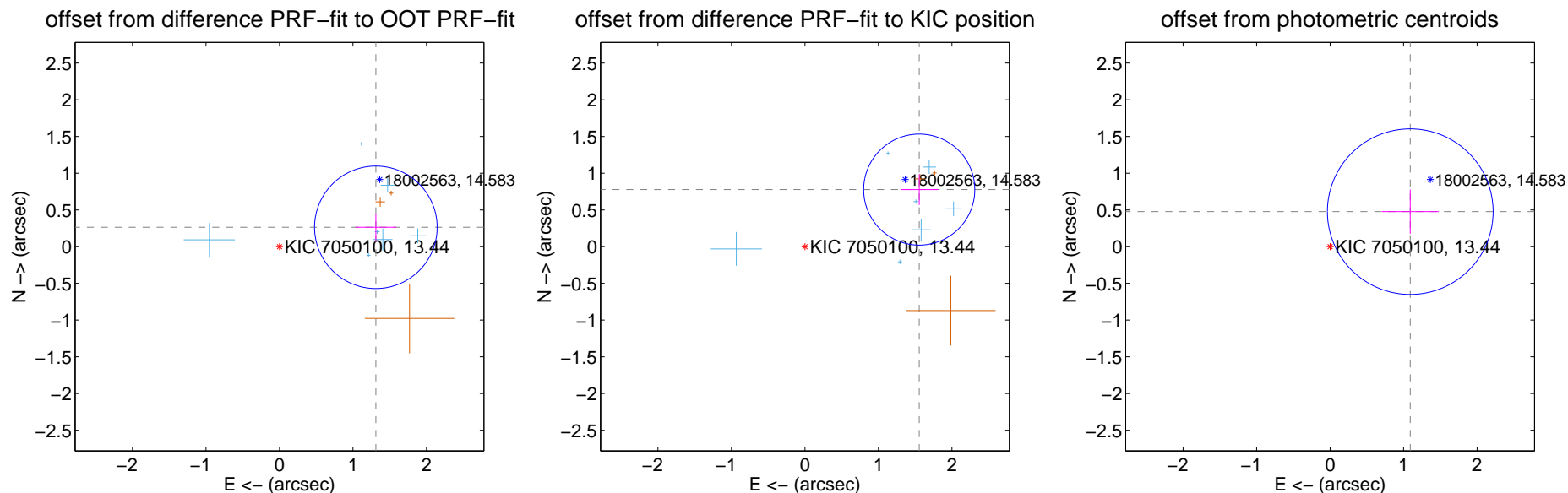
DV Centroid Data

Supplemental centroid analysis for 007050100-02. Kepler magnitude: 13.44. Transit SNR 7.48

There are 7 quarters with good PRF difference image offsets

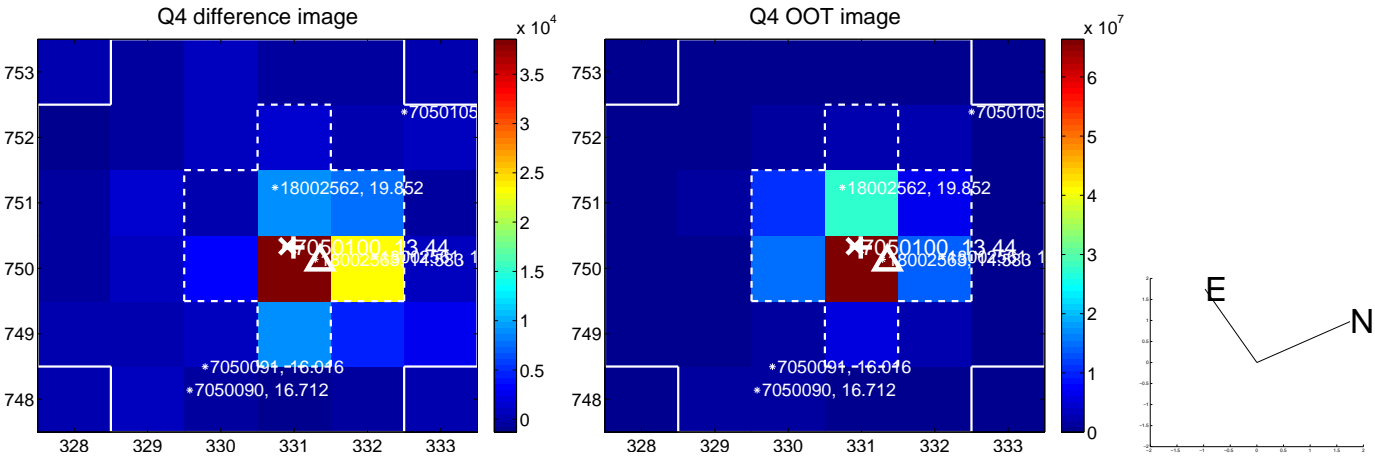
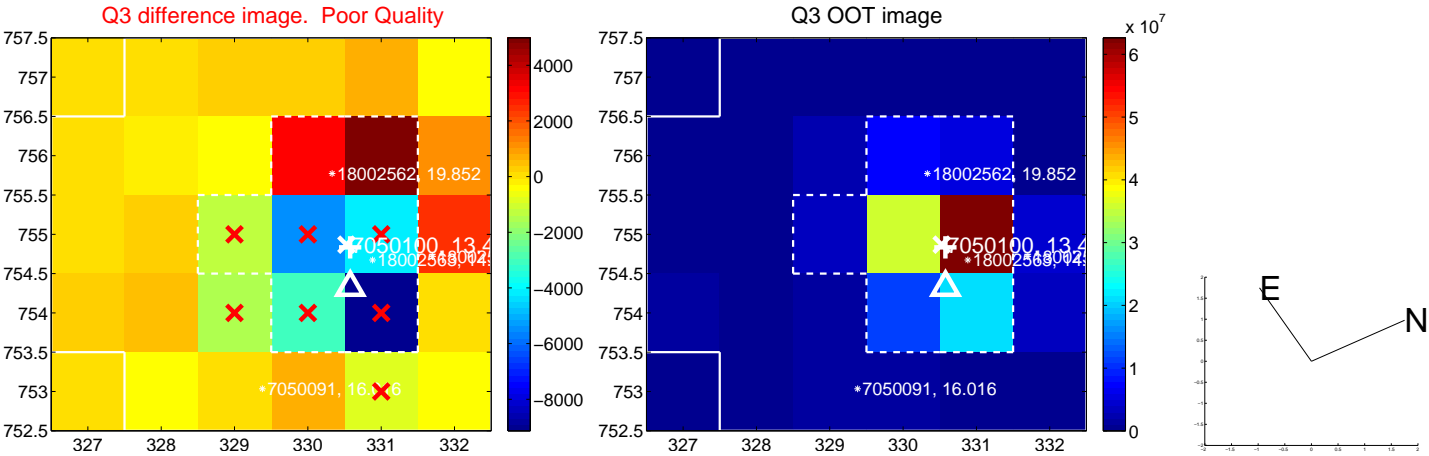
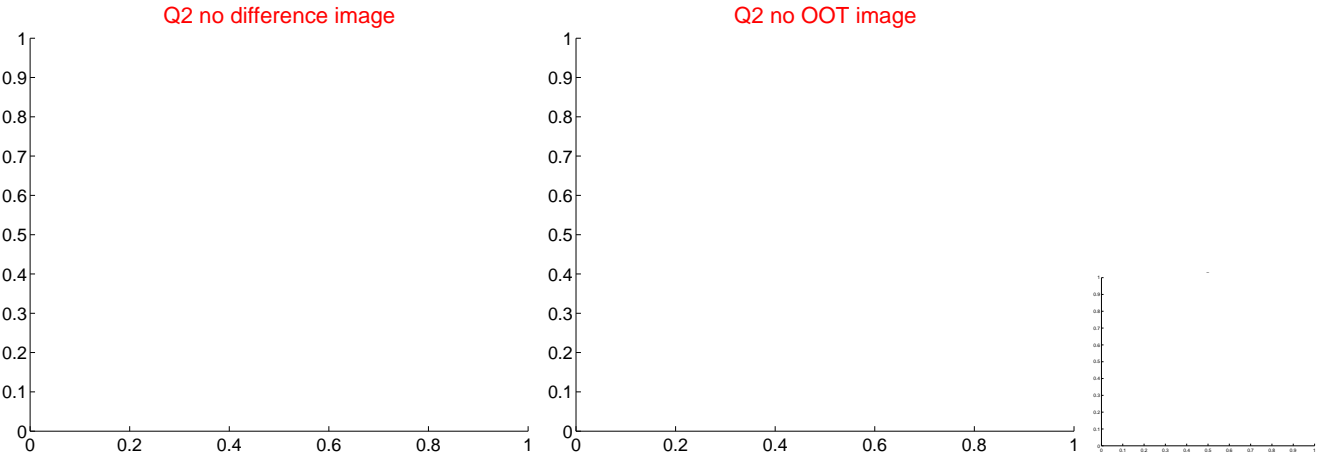
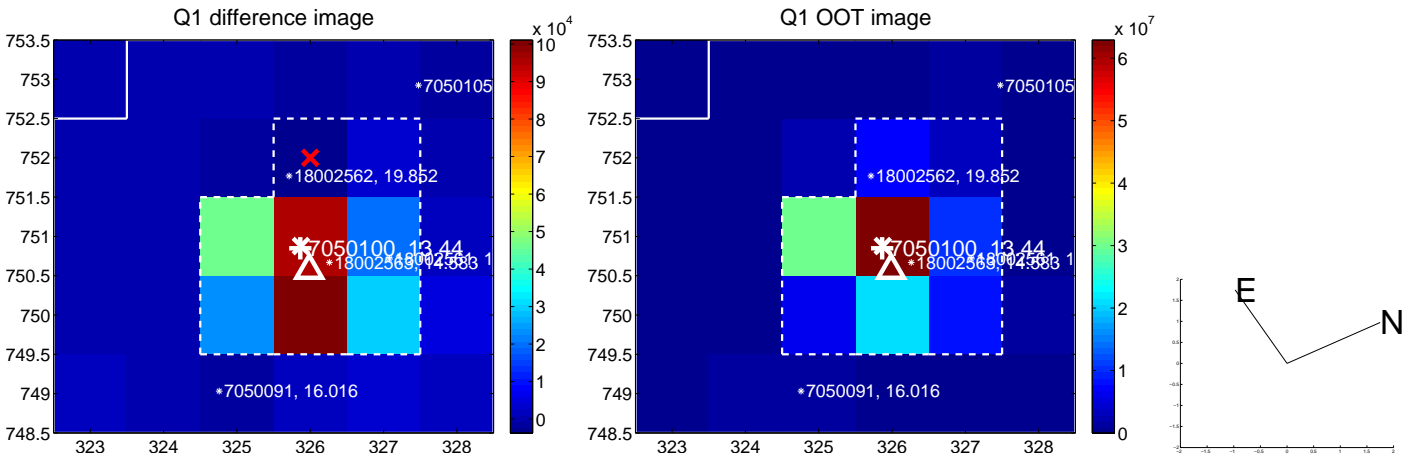
The direct PRF centroid is offset from the target star catalog position by about 0.37 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.337 ± 0.278	4.81	-1.311 ± 0.278	0.263 ± 0.185
PRF-fit source offset from KIC position	1.738 ± 0.252	6.90	-1.555 ± 0.254	0.777 ± 0.210
photometric centroid source offset	1.19 ± 0.38	3.17	-1.09 ± 0.39	0.48 ± 0.30

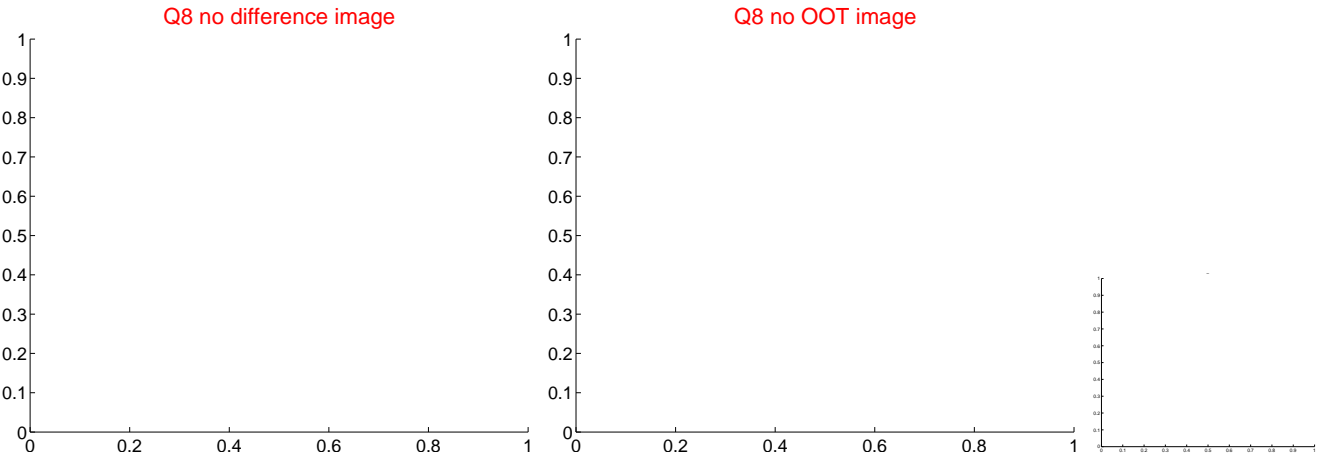
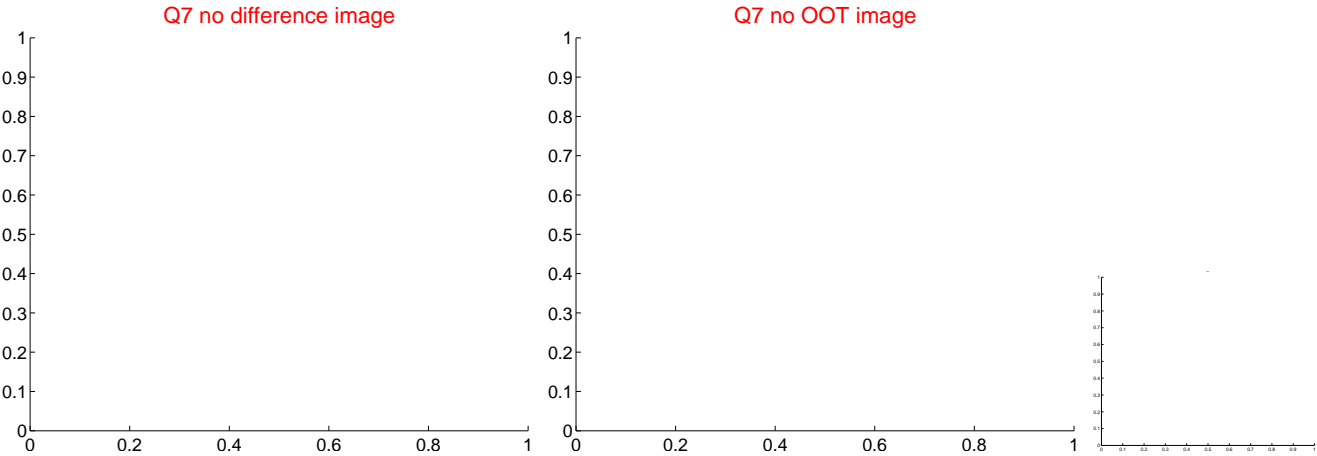
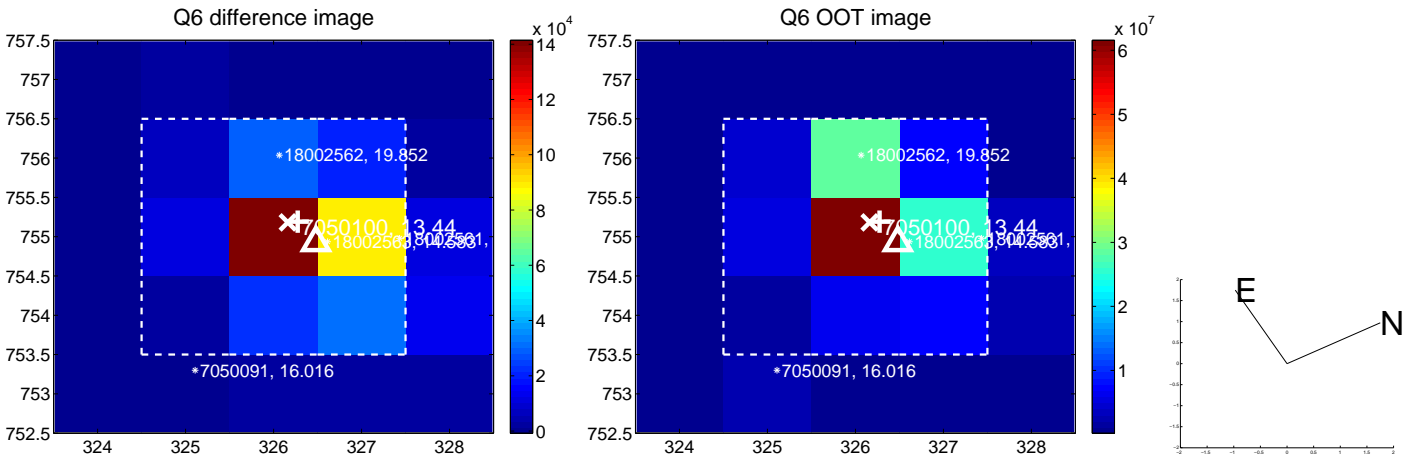
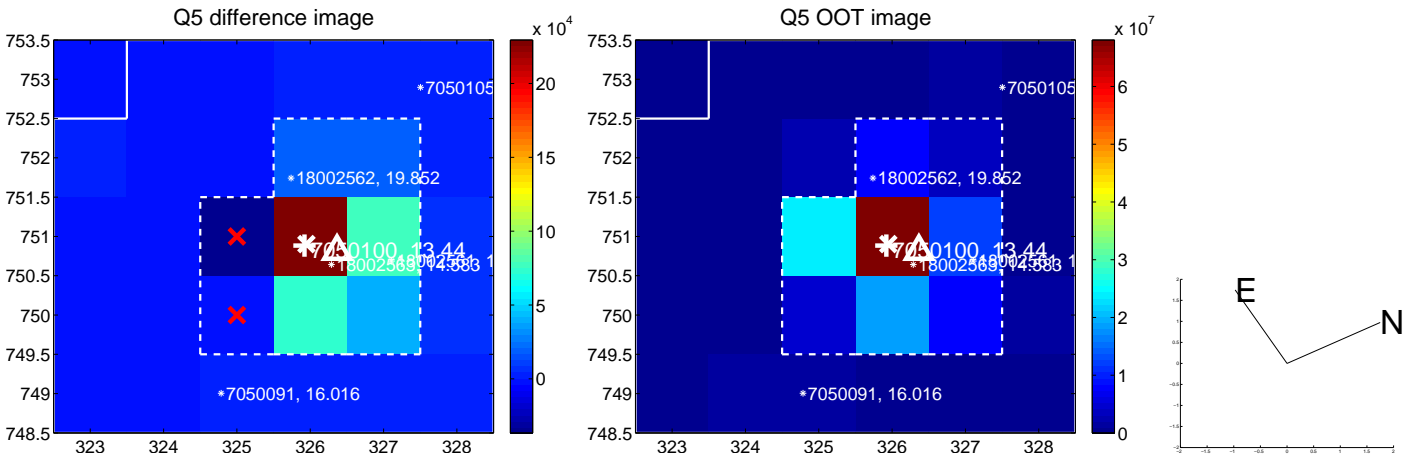


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

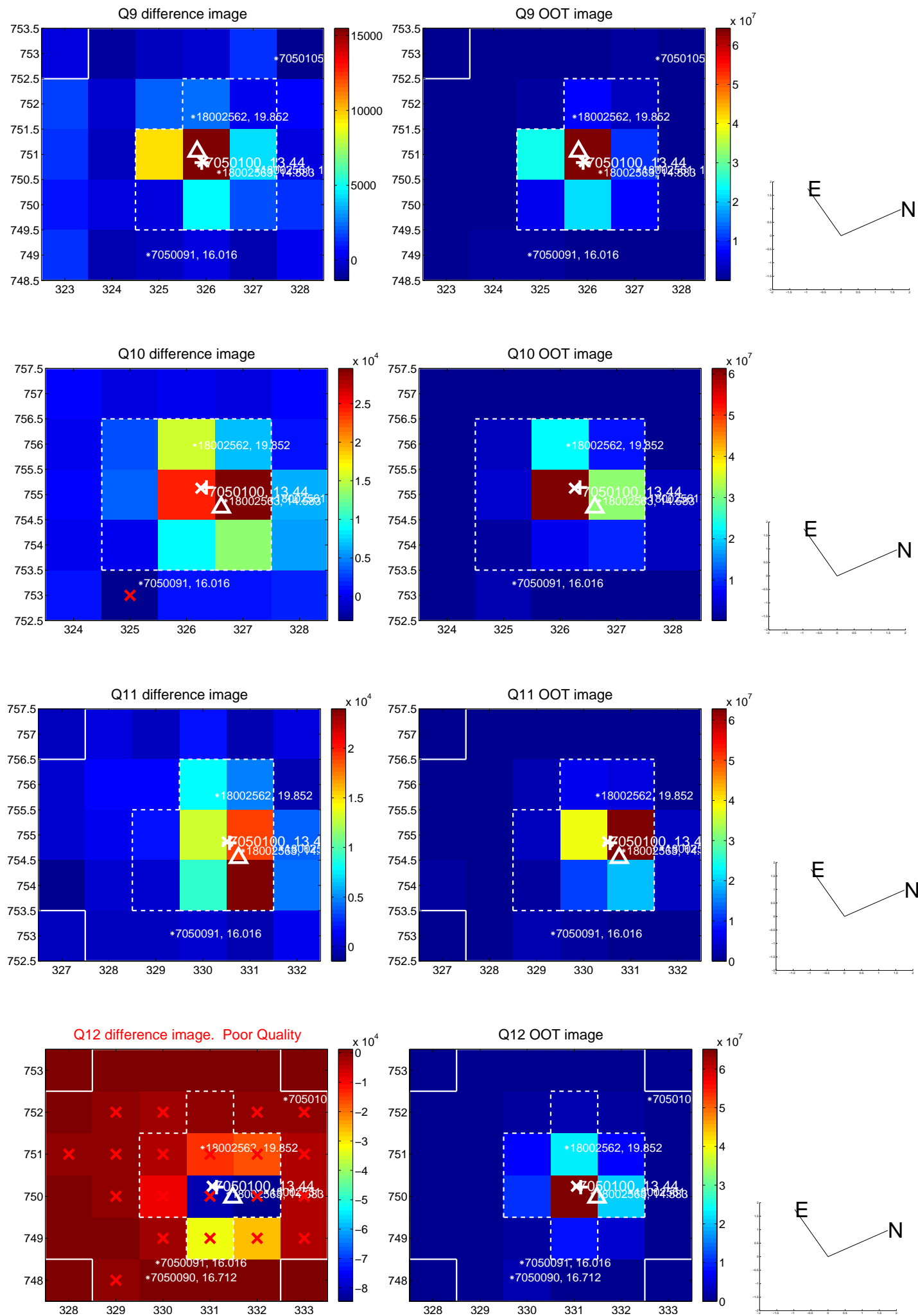
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



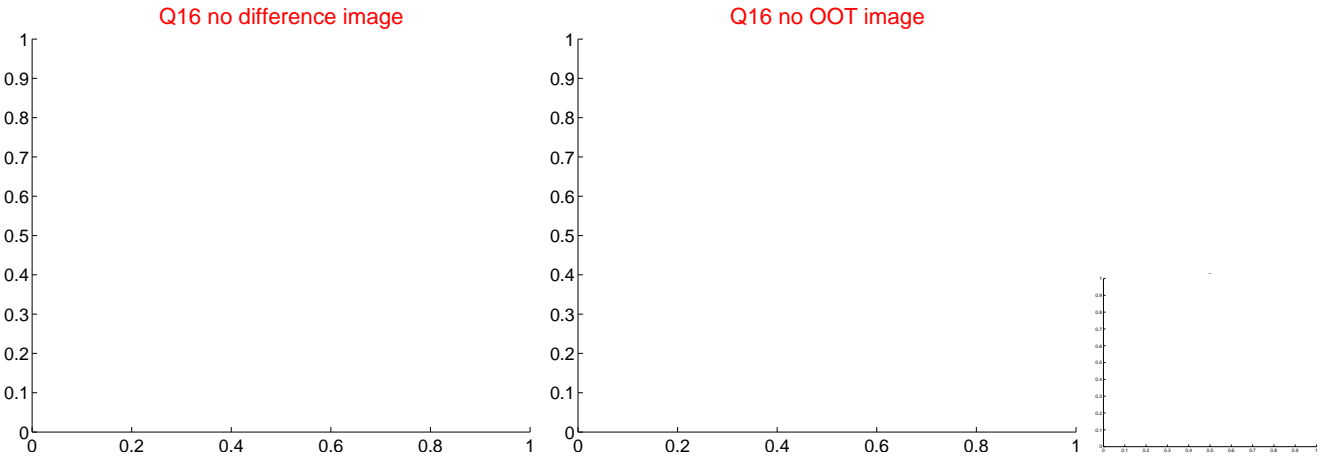
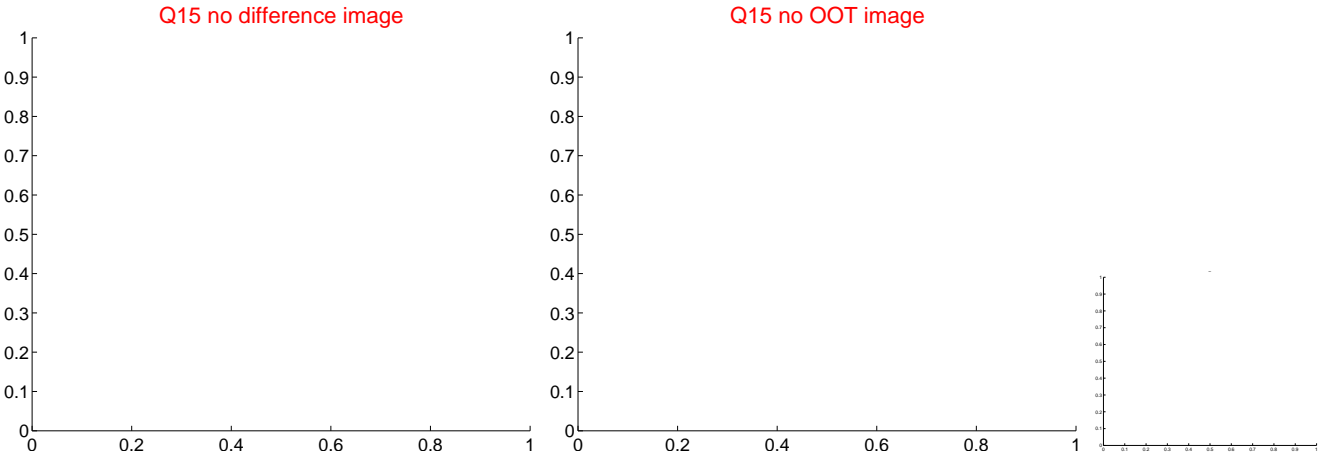
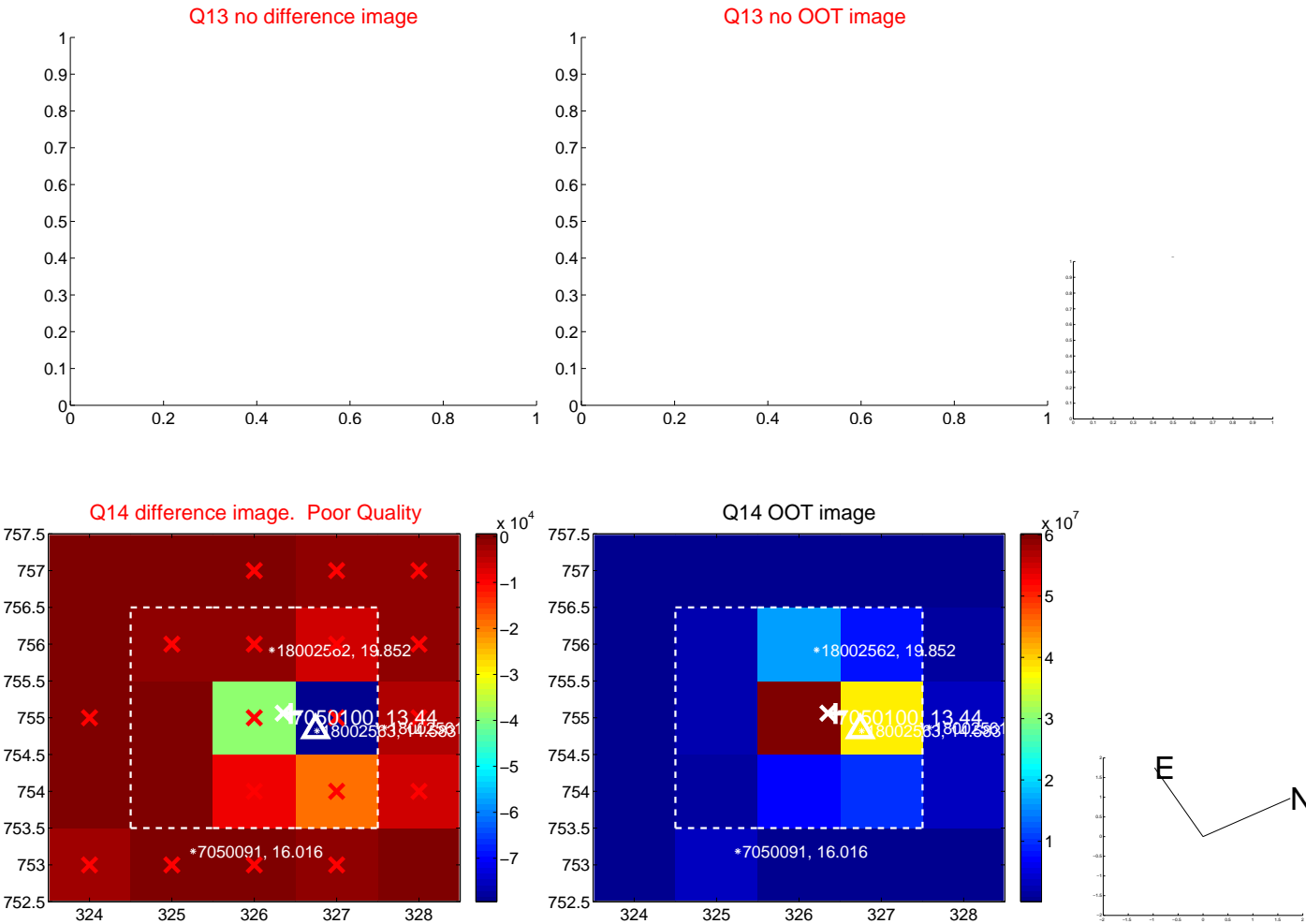
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



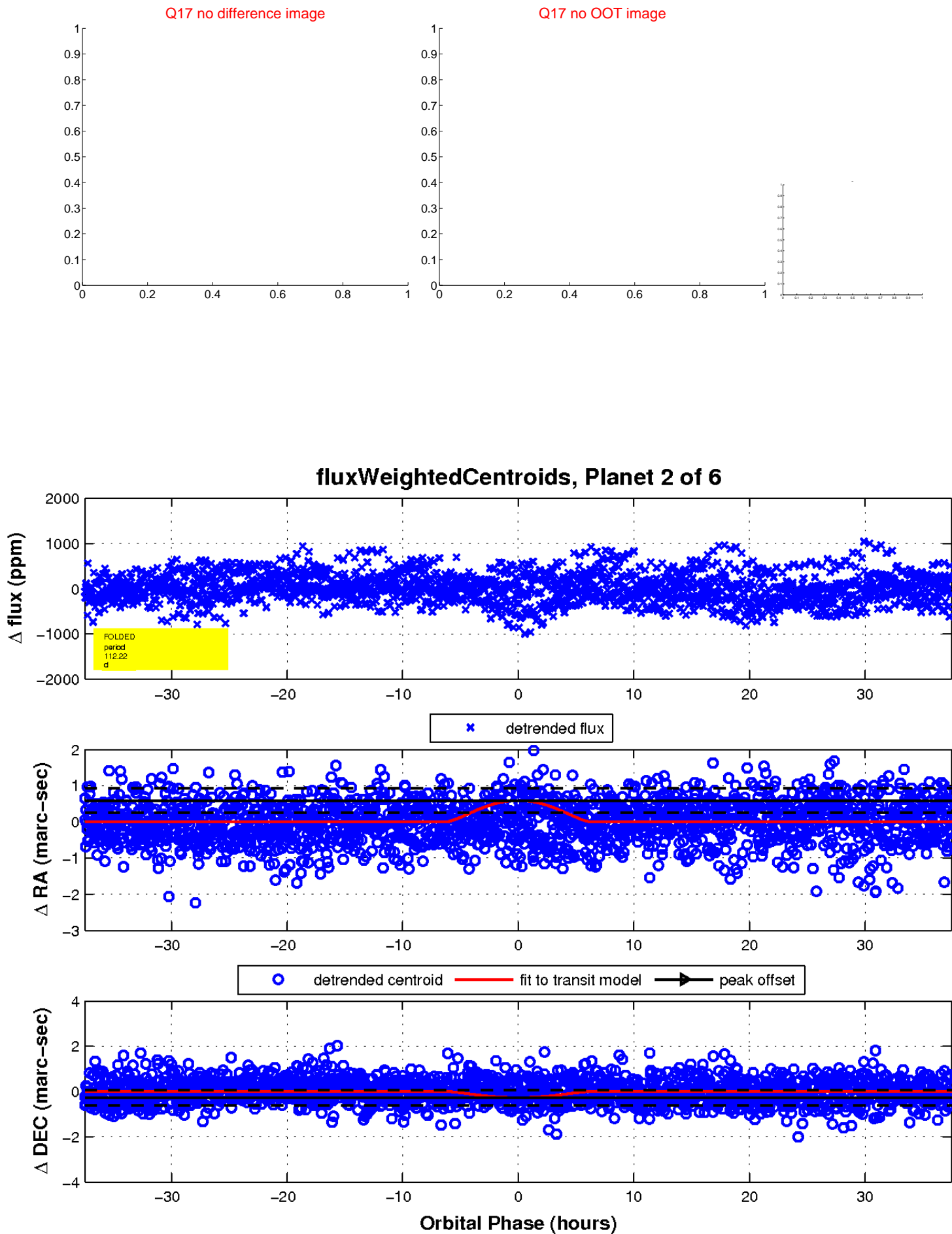
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

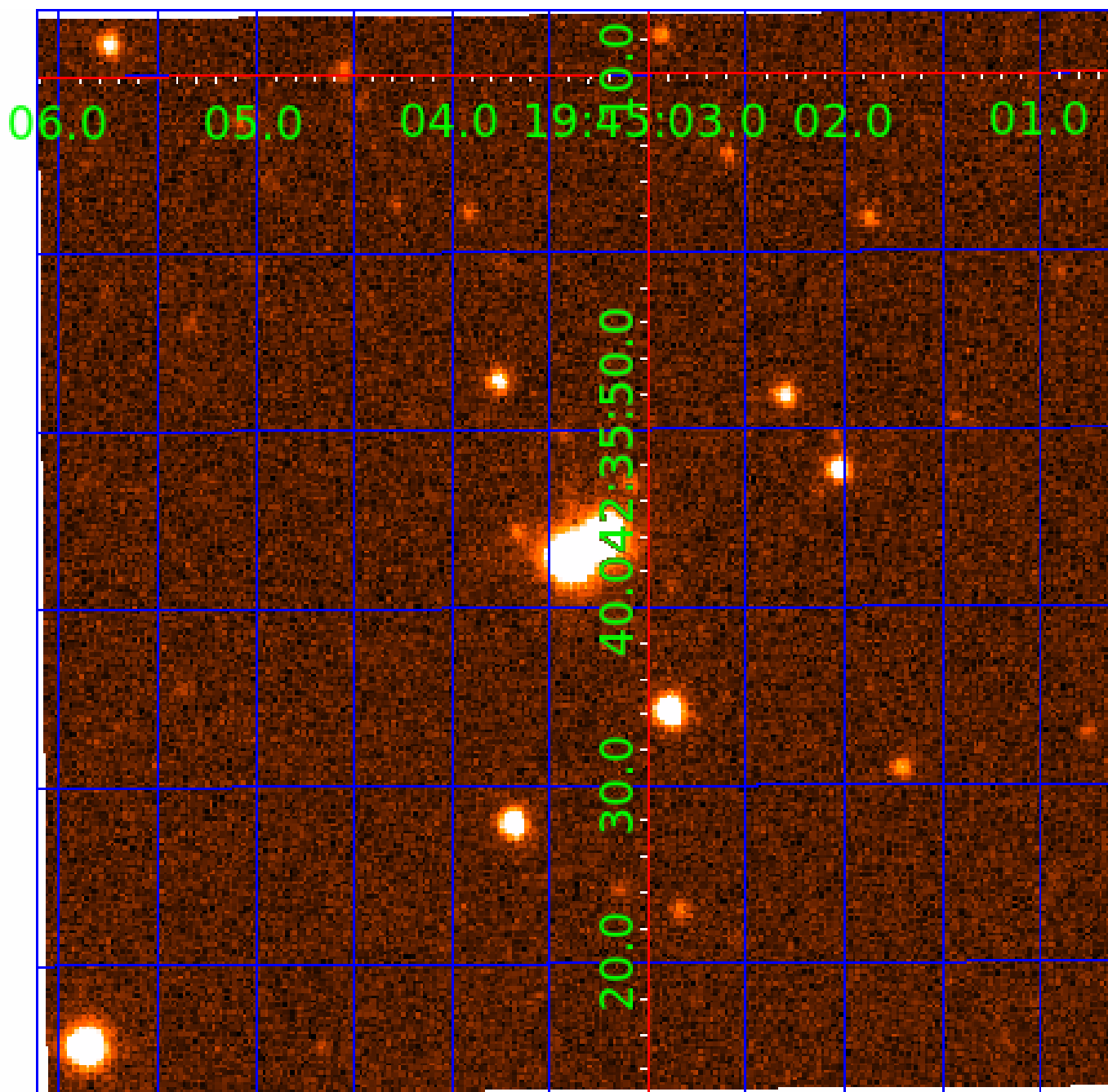


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007050100

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})
007050100-01	OBS	No	0.965766	132.304412	0.0	5.543	10.1	0.0	3.54	6498	0.00	38995.66
007050100-02	OBS	No	112.222739	162.952825	690.3	12.514	11.1	7.5	3.54	6498	17.68	68.77
007050100-03	OBS	No	63.361647	161.995916	173.9	8.041	9.2	3.8	3.54	6498	5.23	147.37
007050100-04	OBS	No	50.457185	153.911184	298.1	4.107	9.0	7.7	3.54	6498	7.20	199.66
007050100-05	OBS	No	14.240562	143.253769	293.0	9.550	8.6	9.7	3.54	6498	11.72	1078.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007050100-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET
007050100-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_UNRESOLVED_OFFSET
007050100-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_UNRESOLVED_OFFSET
007050100-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_UNRESOLVED_OFFSET
007050100-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET

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

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

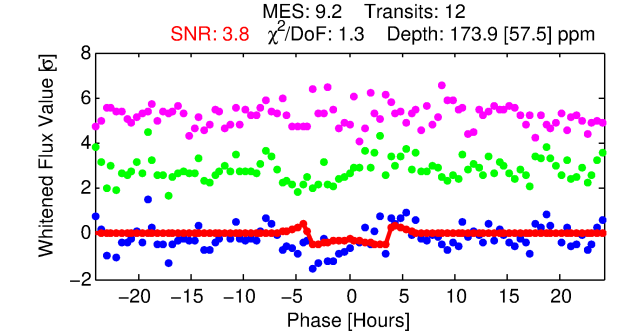
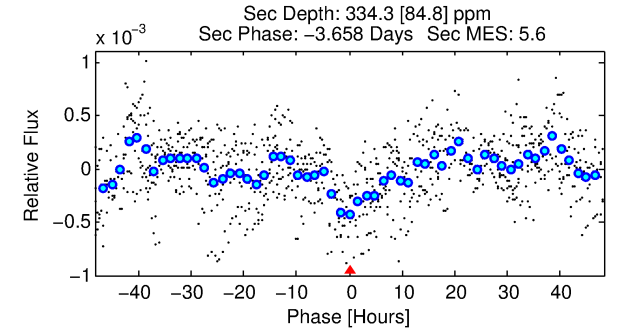
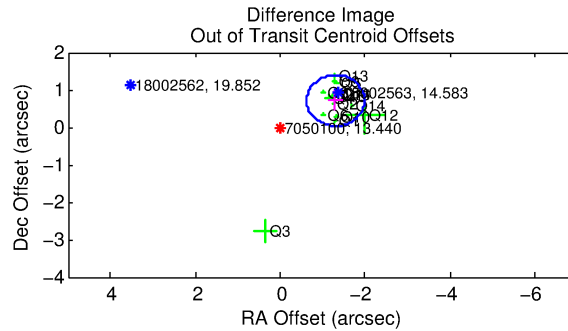
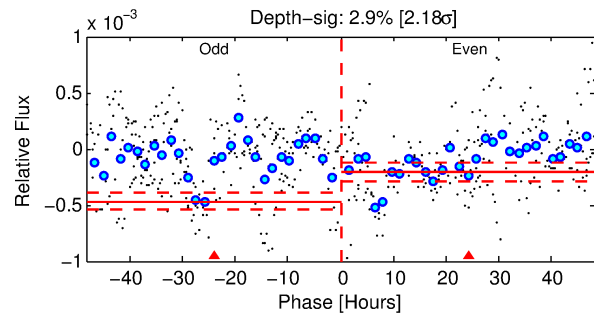
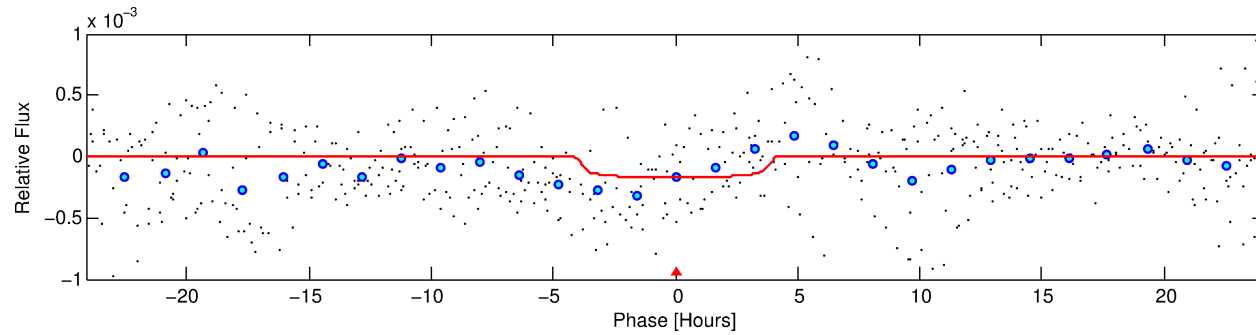
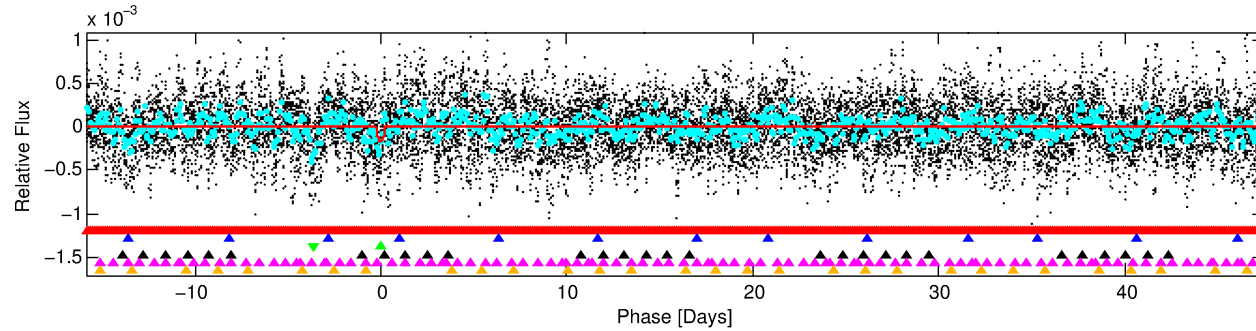
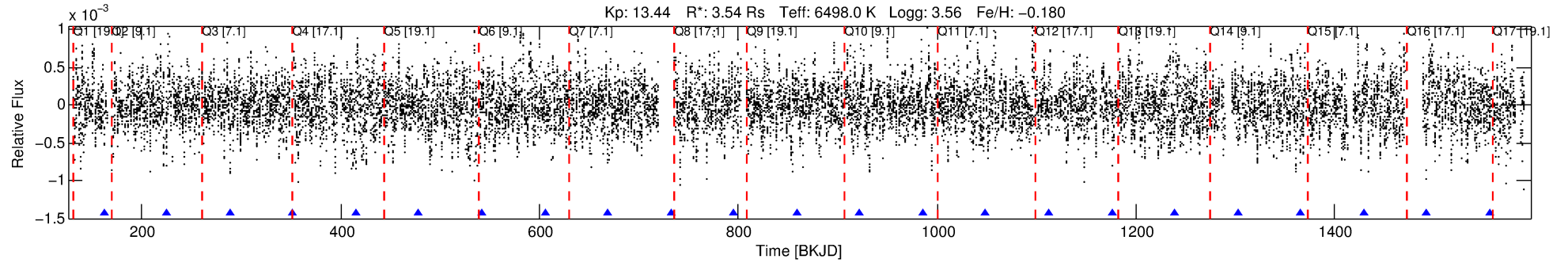
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007050100-03

No Significant Match Found

DV One-Page Summary

KIC: 7050100 Candidate: 3 of 6 Period: 63.362 d



DV Fit Results:

Period = 63.36165 [0.00152] d
Epoch = 161.9959 [0.0176] BKJD
Rp/R* = 0.0135 [0.0057]
a/R* = 34.80 [69.80]
b = 0.83 [0.75]
Seff = 147.37 [89.37]
Teff = 888 [135] K
Rp = 5.23 [3.01] Re
a = 0.3688 [0.1345] AU
Ag = 913.57 [954.60] [0.96 σ]
Teffp = 7552 [1698] K [3.91 σ]

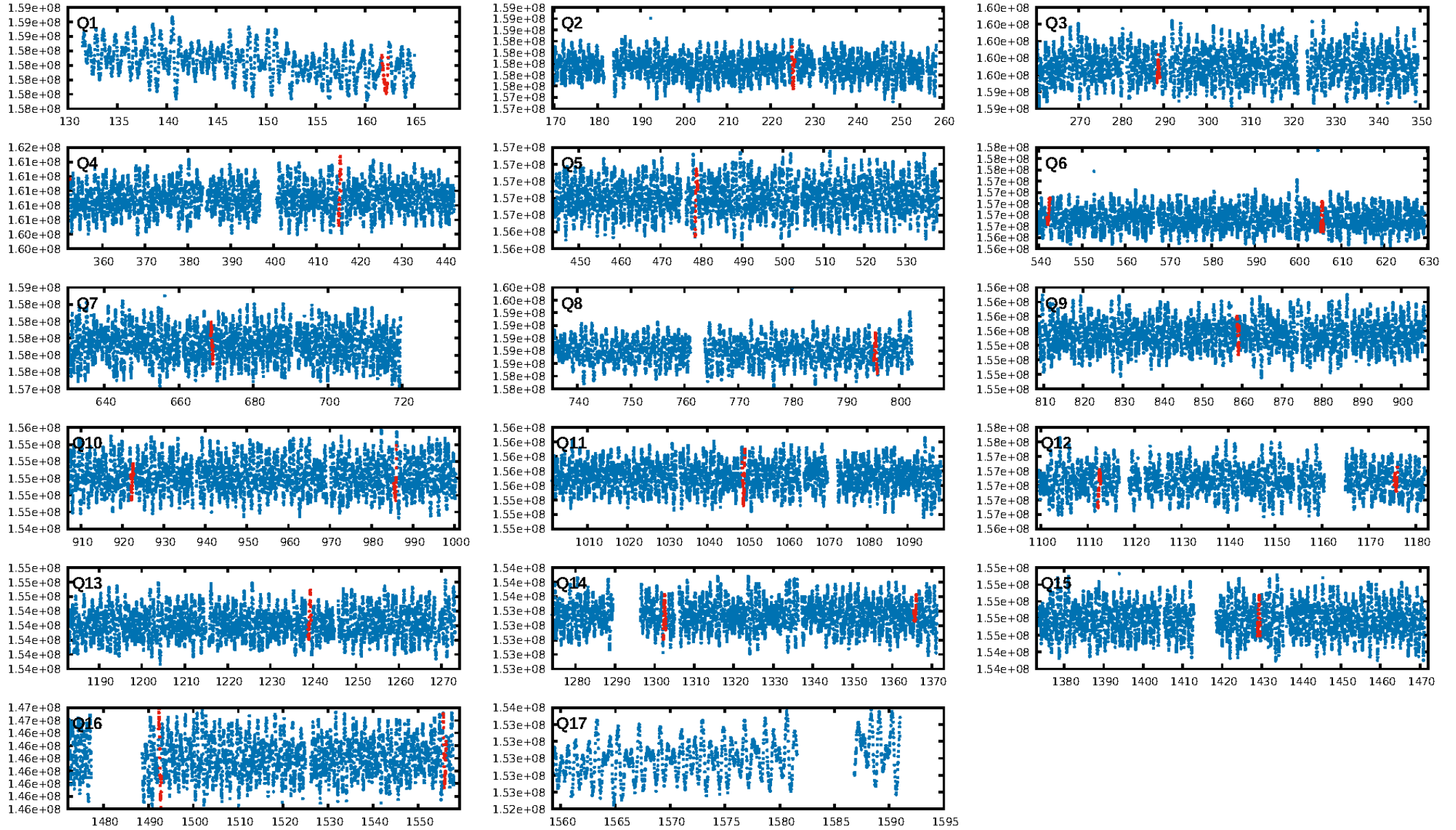
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [34.30 σ]
LongPeriod-sig: 100.0% [78.84 σ]
ModelChiSquare2-sig: 0.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [11/11]
GhostDiagnostic-chr: -1.322
Centroid-sig: 2.1%
Centroid-so: 1.688 arcsec [1.71 σ]
OotOffset-rm: 1.491 arcsec [6.56 σ]
KicOffset-rm: 1.785 arcsec [7.02 σ]
OotOffset-st: 4/3/4/4 [15]
KicOffset-st: 4/3/4/4 [15]
DiffImageQuality-fgm: 0.47 [7/15]
DiffImageOverlap-fno: 0.00 [0/16]

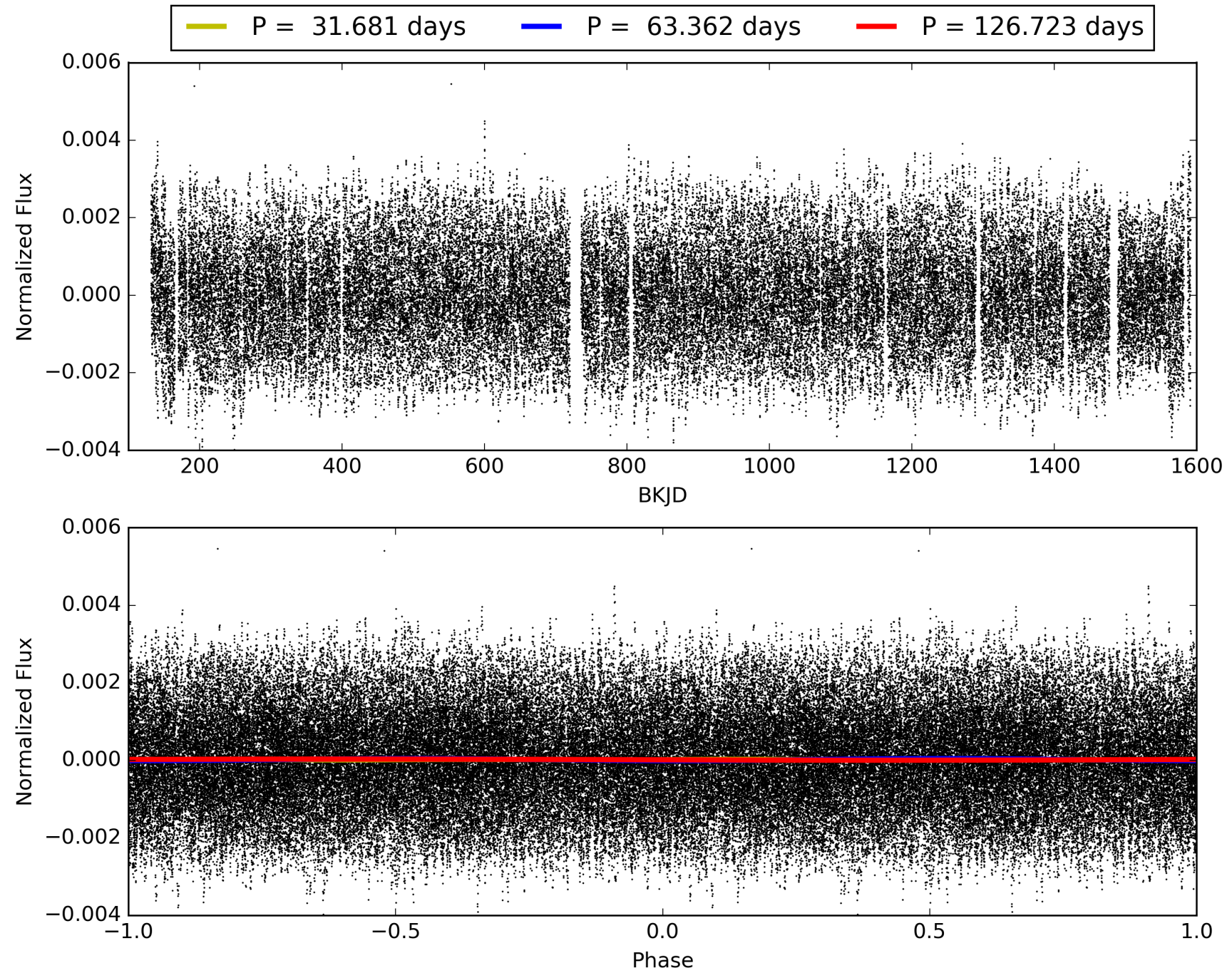
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 07:56:14 Z

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

TCE 007050100-03, PDC Light Curves

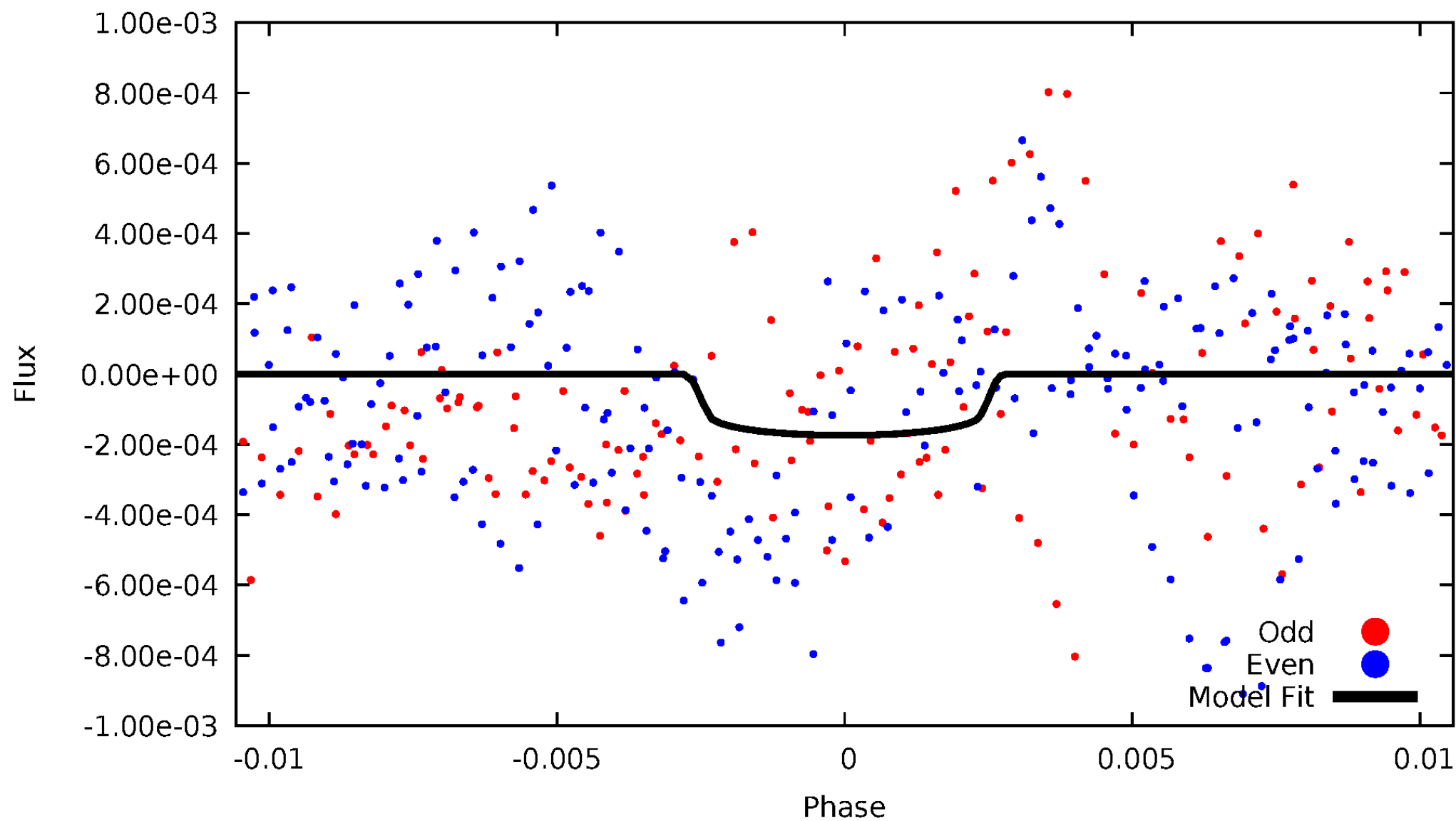


TCE 007050100-03



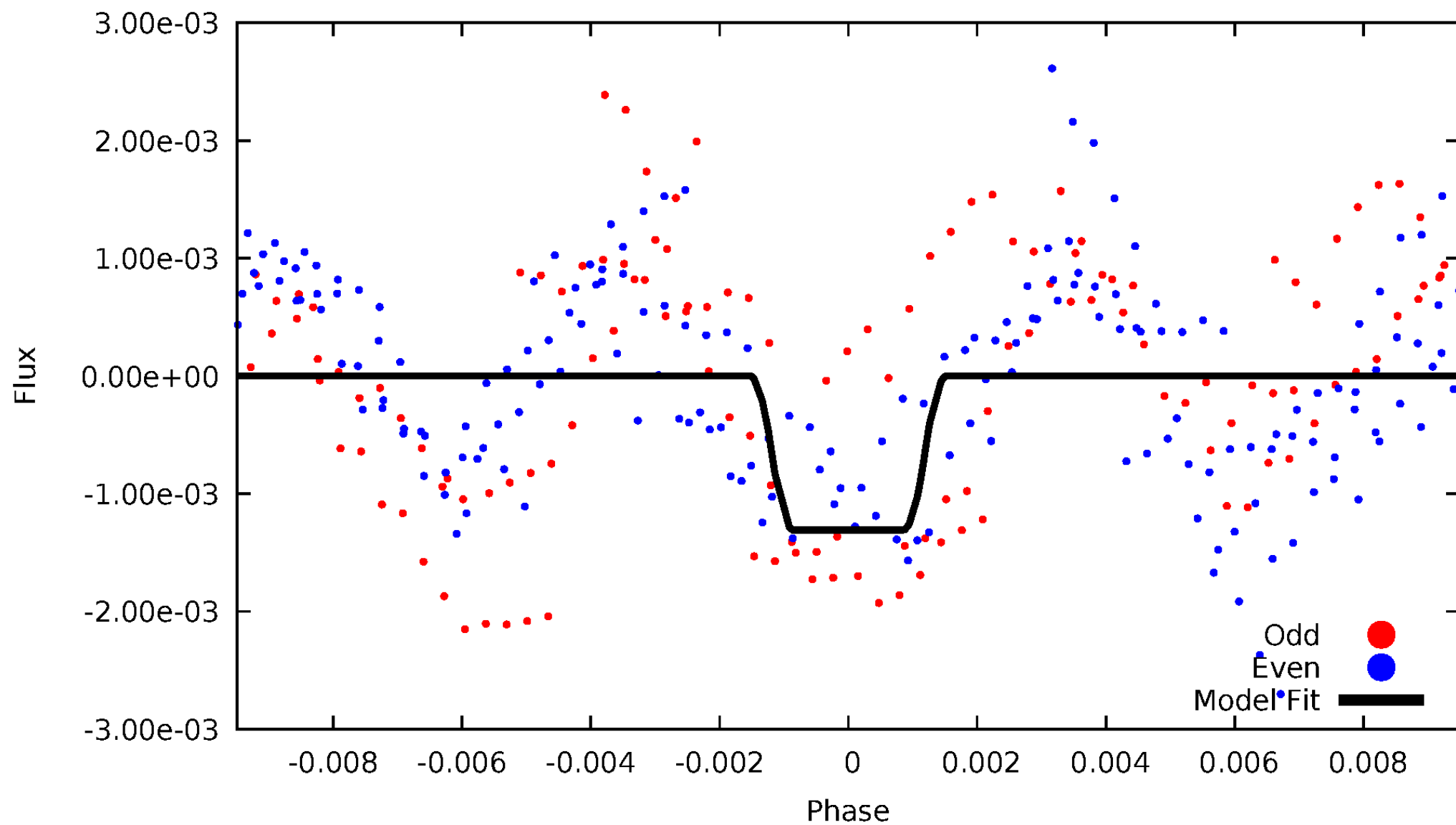
DV Odd/Even

TCE 007050100-03



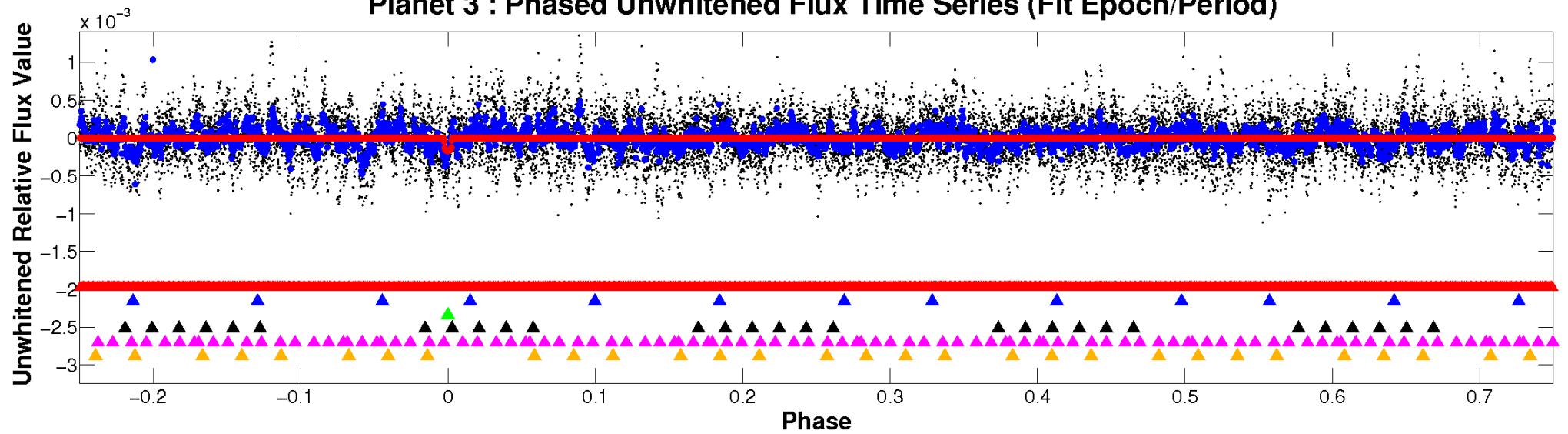
ALT Odd/Even

TCE 007050100-03

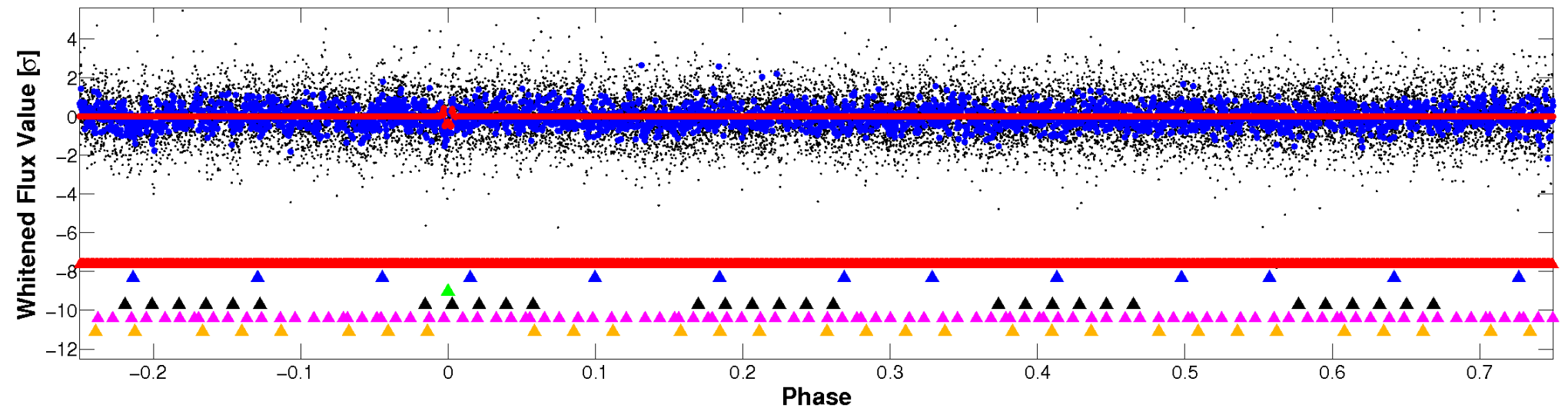


Non-Whitened Vs. Whitened Light Curve

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

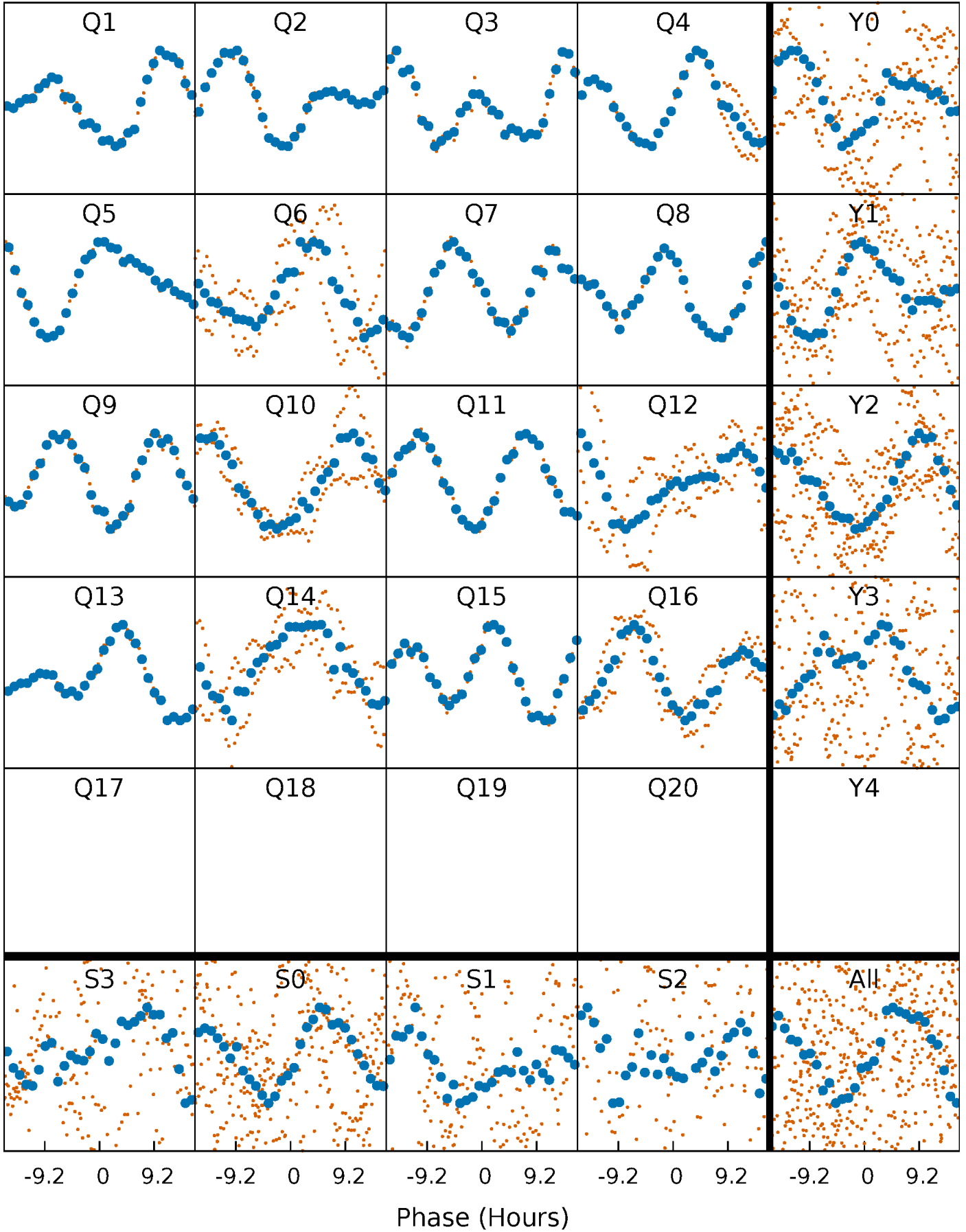


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



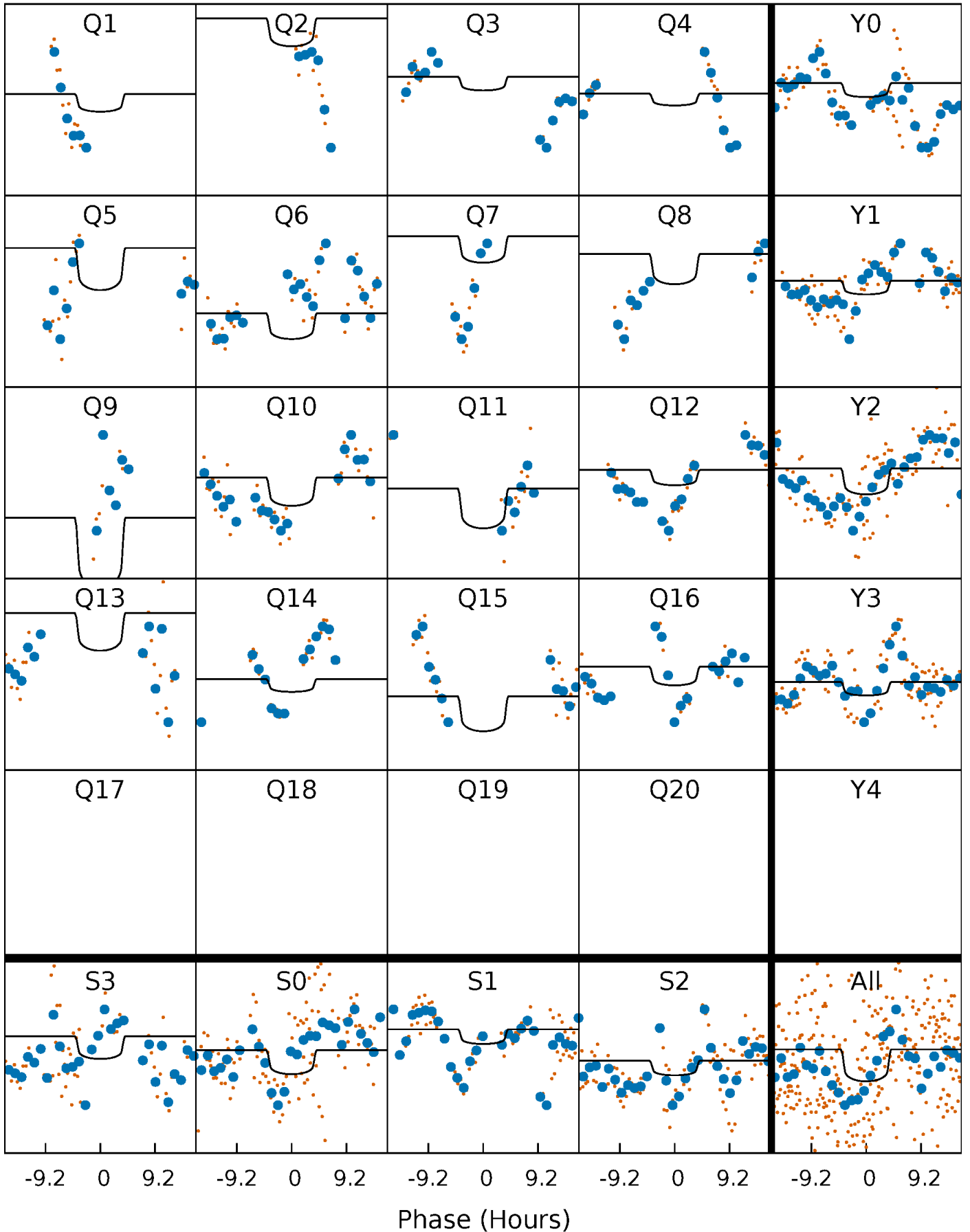
PDC Quarter-Phased Transit Curves

TCE 007050100-03 P= 63.361647 Days $T_0=161.995916$ (BKJD)



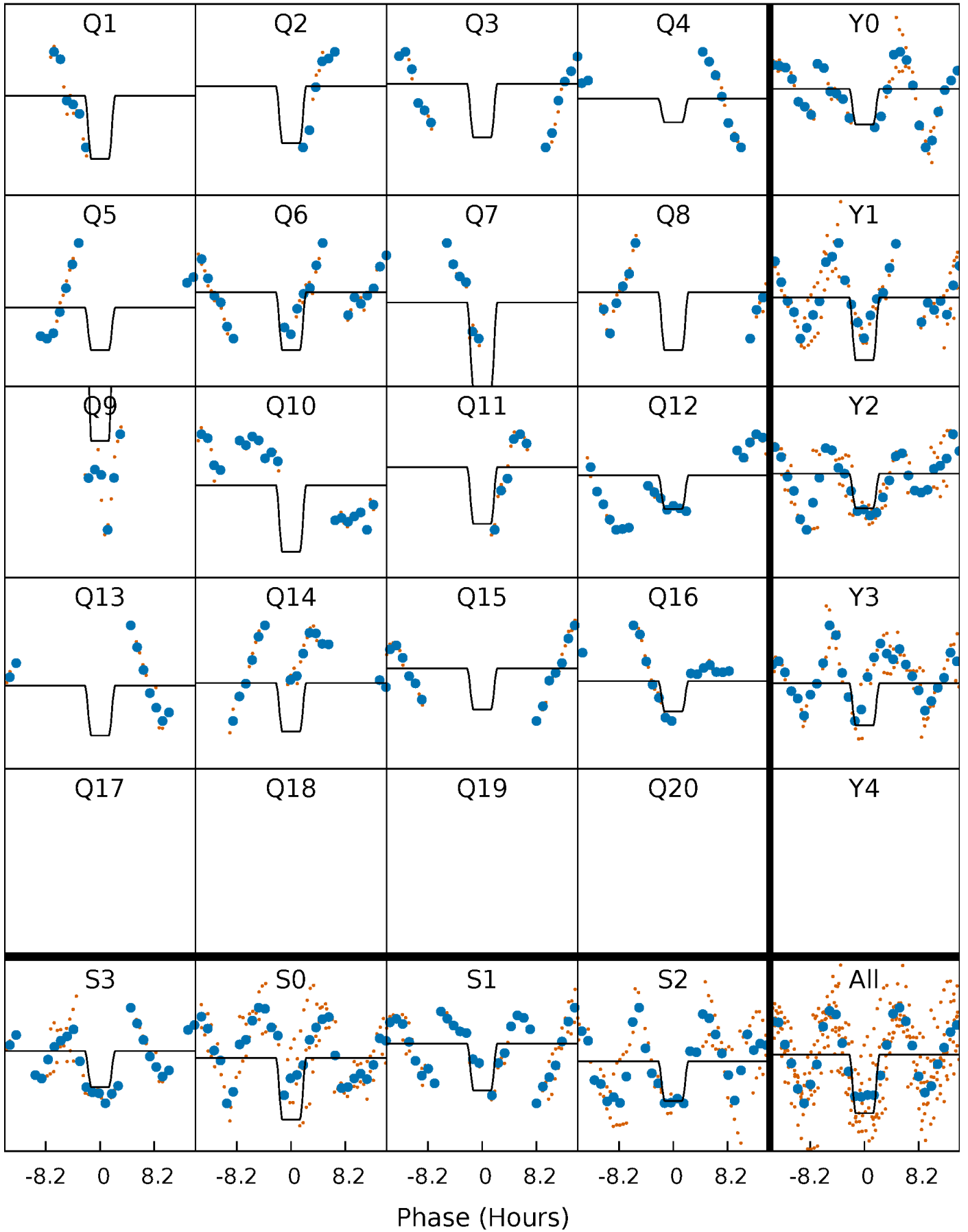
DV Quarter-Phased Transit Curves

TCE 007050100-03 P= 63.361647 Days $T_0=161.995916$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

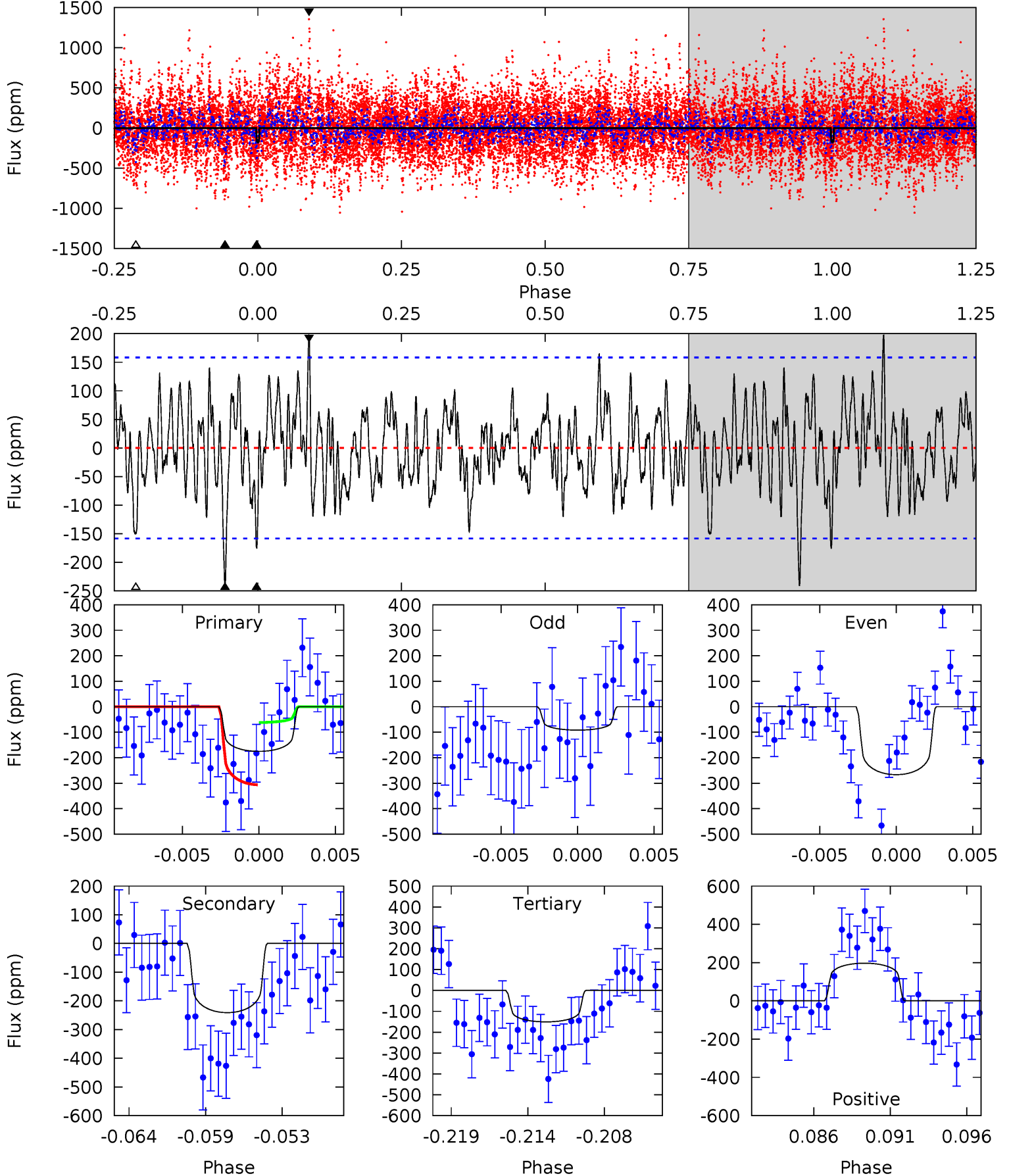
TCE 007050100-03 $P = 63.368858$ Days $T_0 = 161.962256$ (BKJD)



DV Model-Shift Uniqueness Test

007050100-03, P = 63.361647 Days, E = 98.634269 Days

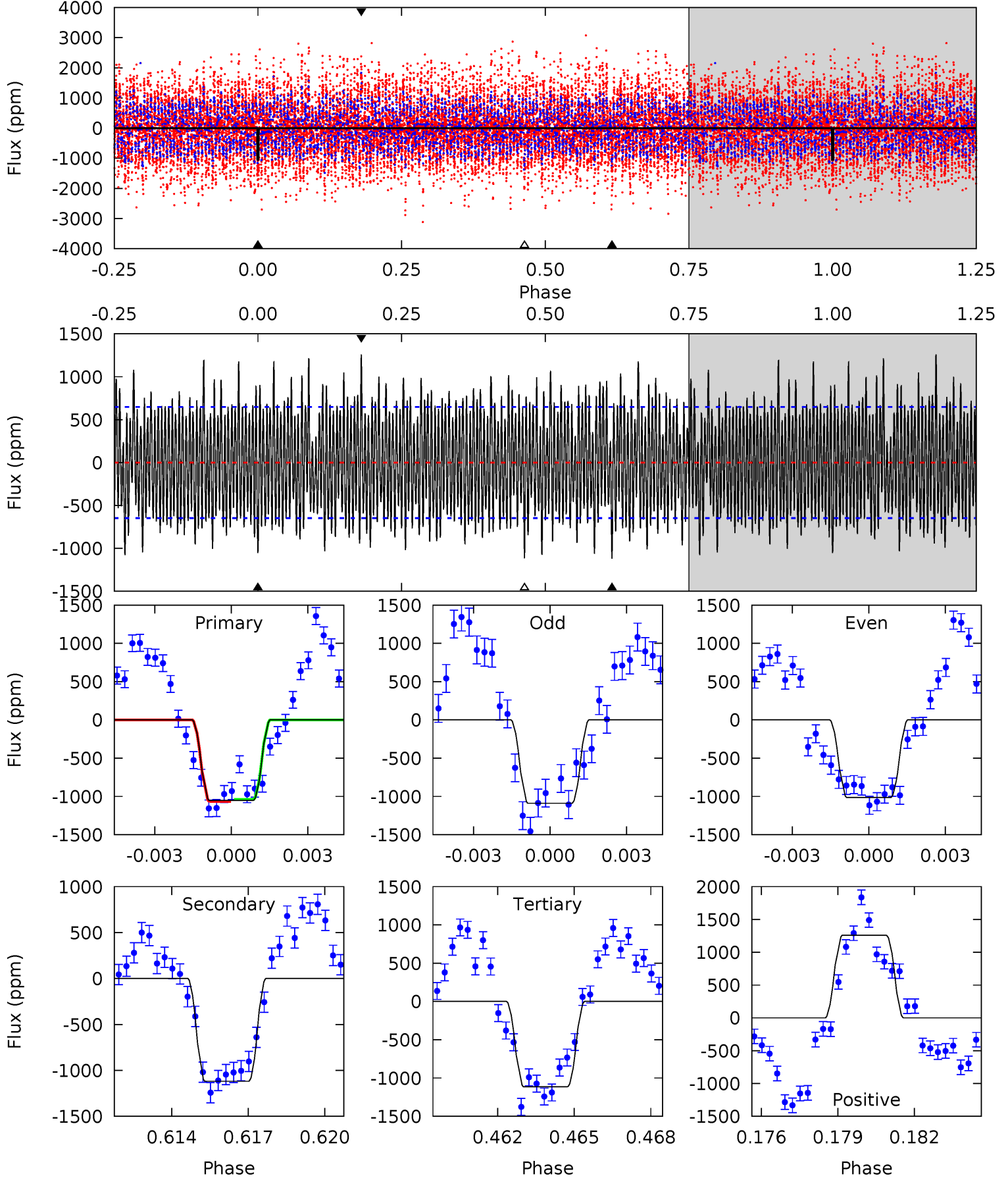
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.69	7.83	4.90	6.40	5.15	2.79	1.88	0.79	-0.71	2.94	1.43	2.85	0.76	0.45	3.97



Alt Model-Shift Uniqueness Test

007050100-03, P = 63.368858 Days, E = 98.593398 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.54	9.07	9.04	10.2	5.25	2.97	4.24	-0.50	-1.67	0.04	-1.14	0.31	0.77	0.53	0.10



Stellar Parameters For KIC 007050100

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6498^{+334}_{-334}	$3.561^{+0.330}_{-0.110}$	$-0.180^{+0.350}_{-0.250}$	$3.542^{+0.436}_{-1.394}$	$1.665^{+0.213}_{-0.396}$	$0.053^{+0.130}_{-0.014}$
	+5%/-5%	+9%/-3%	+194%/-139%	+12%/-39%	+13%/-24%	+245%/-26%
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 007050100-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-241 ± 31	$4.81^{+2.46}_{-2.21}$	1220^{+93}_{-128}	7010^{+3332}_{-1263}	774^{+1810}_{-426}
Alt.	-1118 ± 123	$13.35^{+3.10}_{-2.89}$	1224^{+85}_{-125}	6223^{+716}_{-561}	471^{+282}_{-161}

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

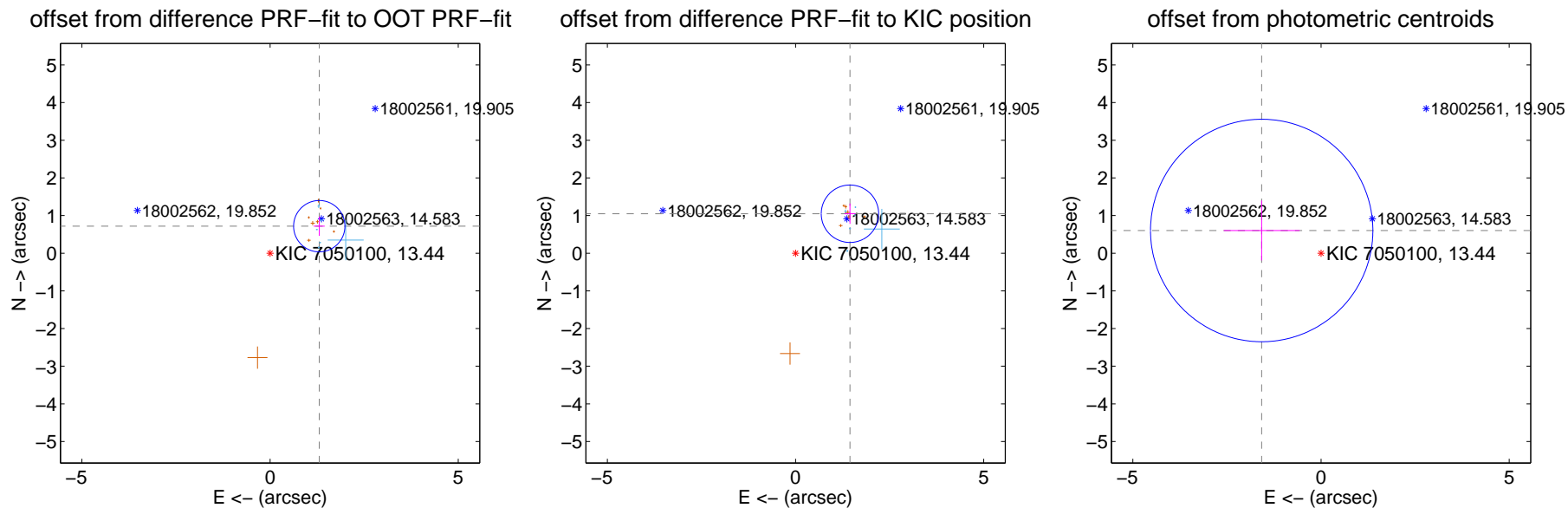
DV Centroid Data

Supplemental centroid analysis for 007050100-03. Kepler magnitude: 13.44. Transit SNR 3.83

There are 7 quarters with good PRF difference image offsets

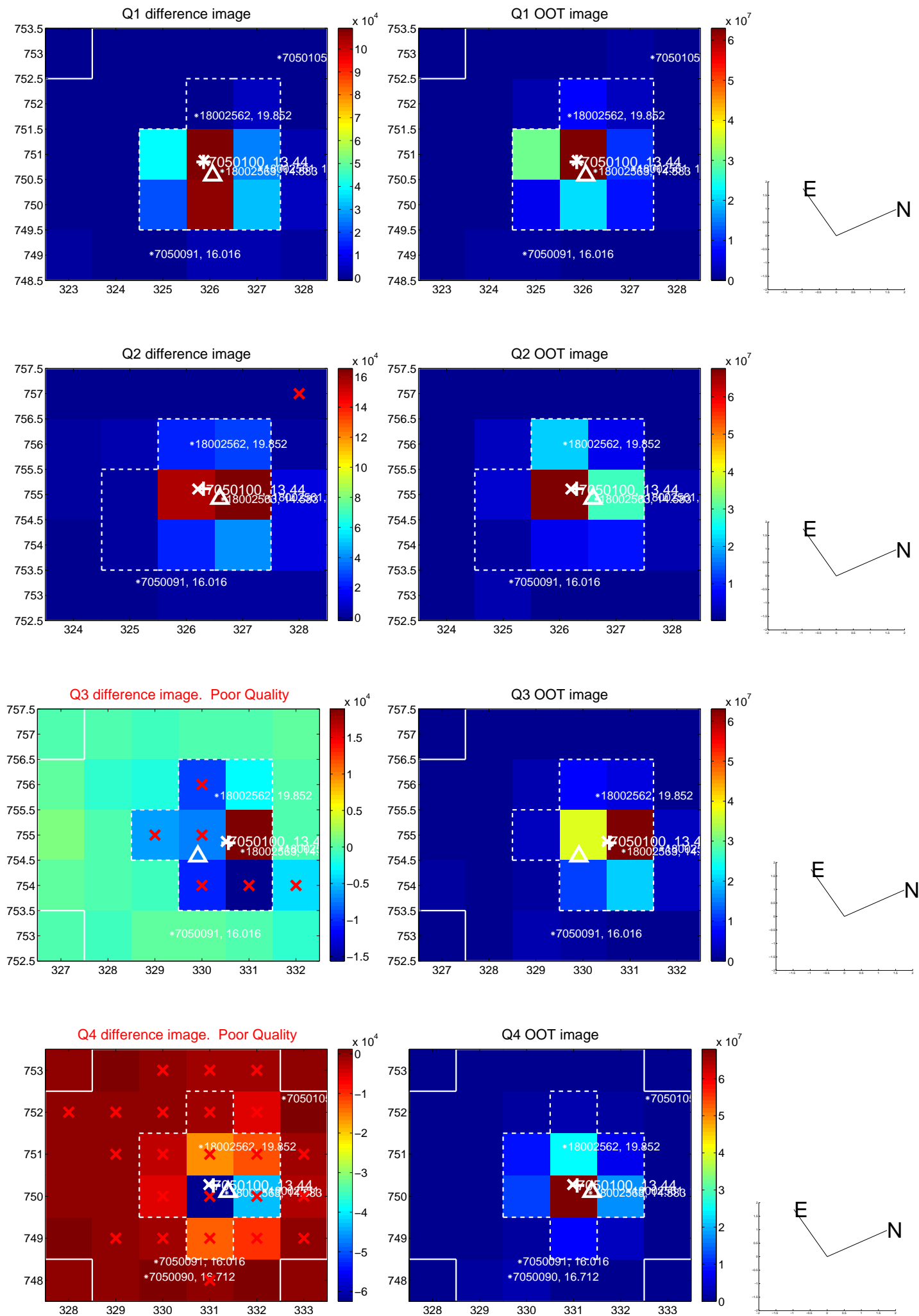
The direct PRF centroid is offset from the target star catalog position by about 0.43 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.491 ± 0.227	6.56	-1.307 ± 0.145	0.718 ± 0.255
PRF-fit source offset from KIC position	1.785 ± 0.254	7.02	-1.445 ± 0.145	1.048 ± 0.270
photometric centroid source offset	1.69 ± 0.98	1.71	1.58 ± 1.01	0.60 ± 0.79

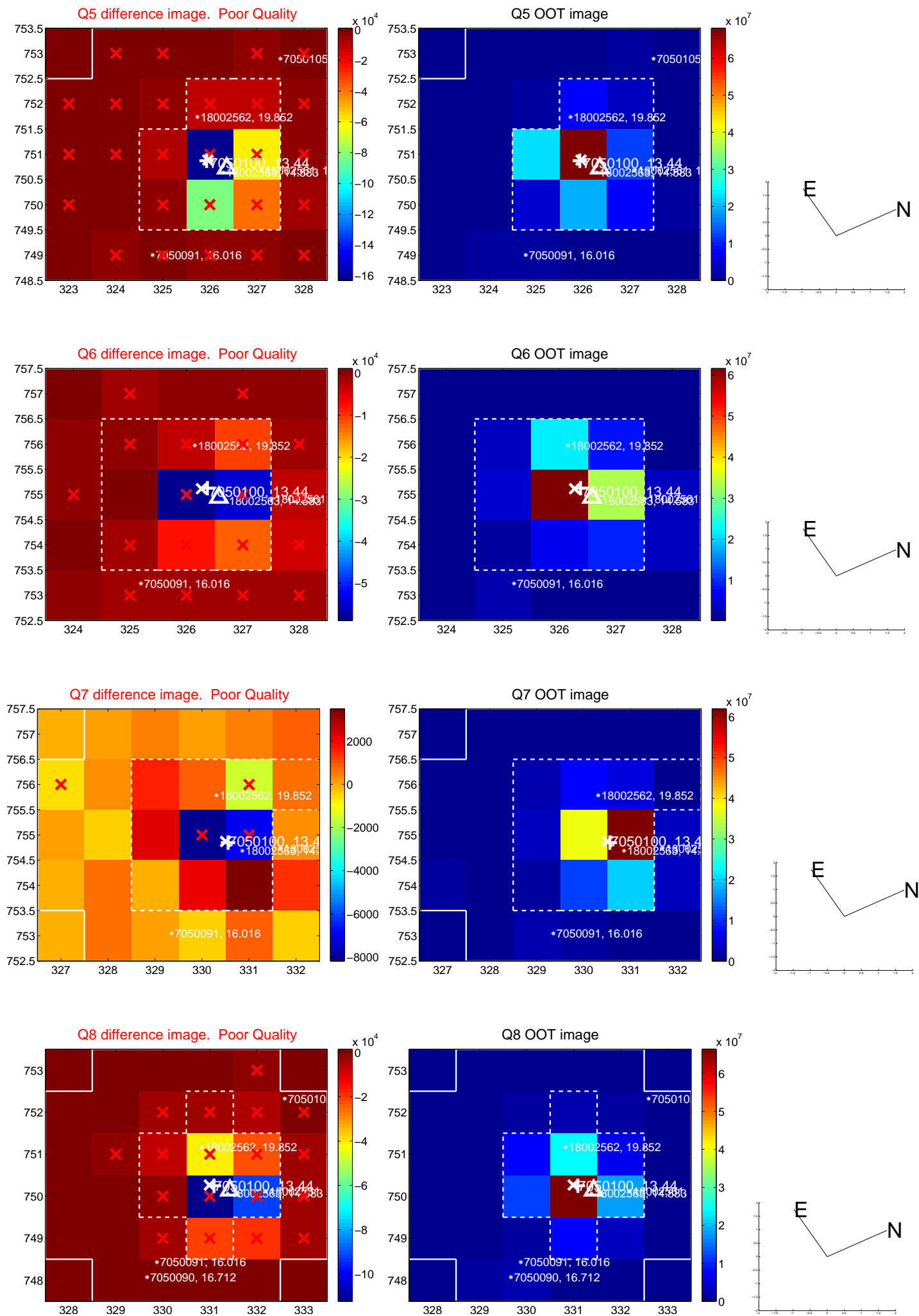


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

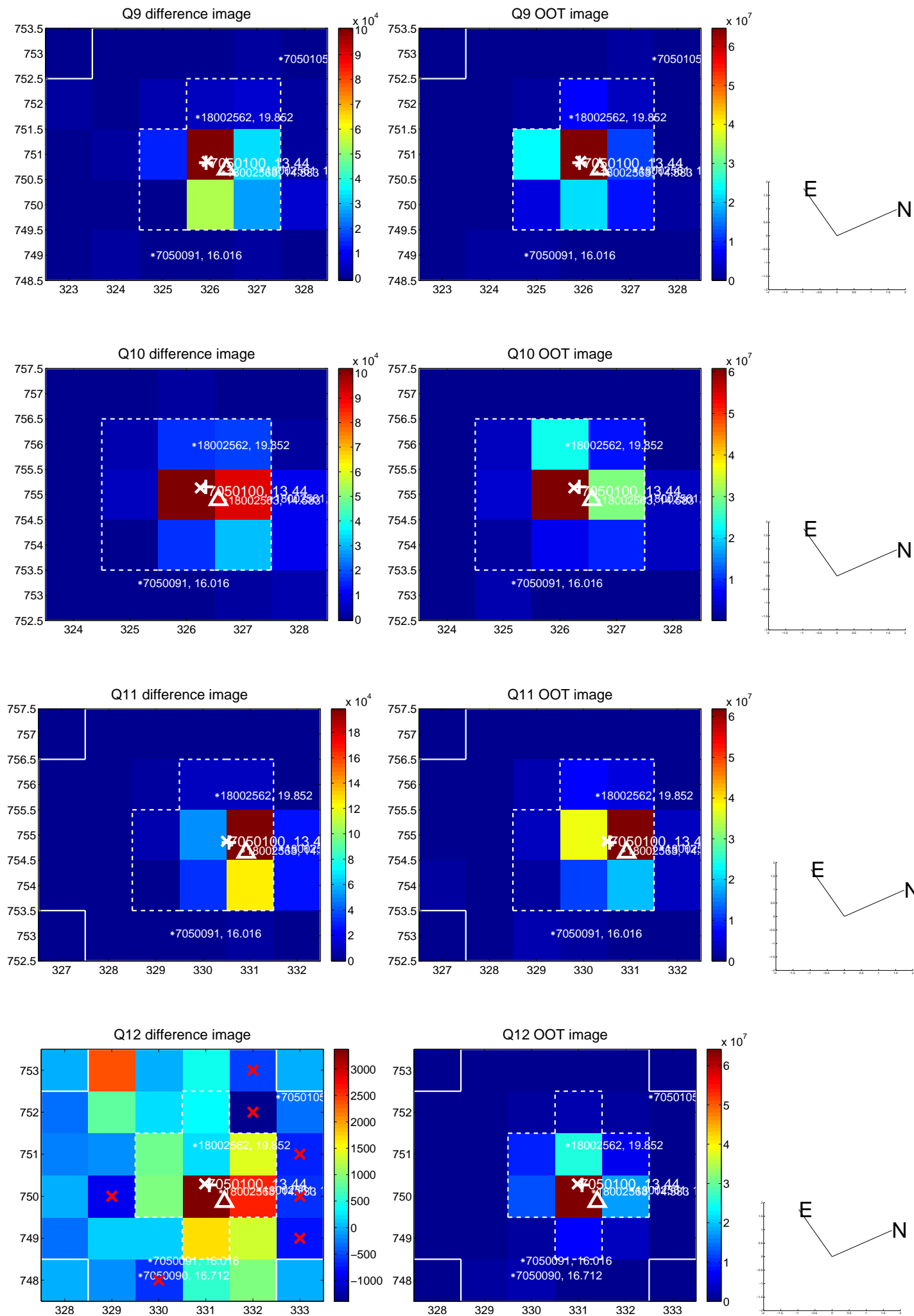
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



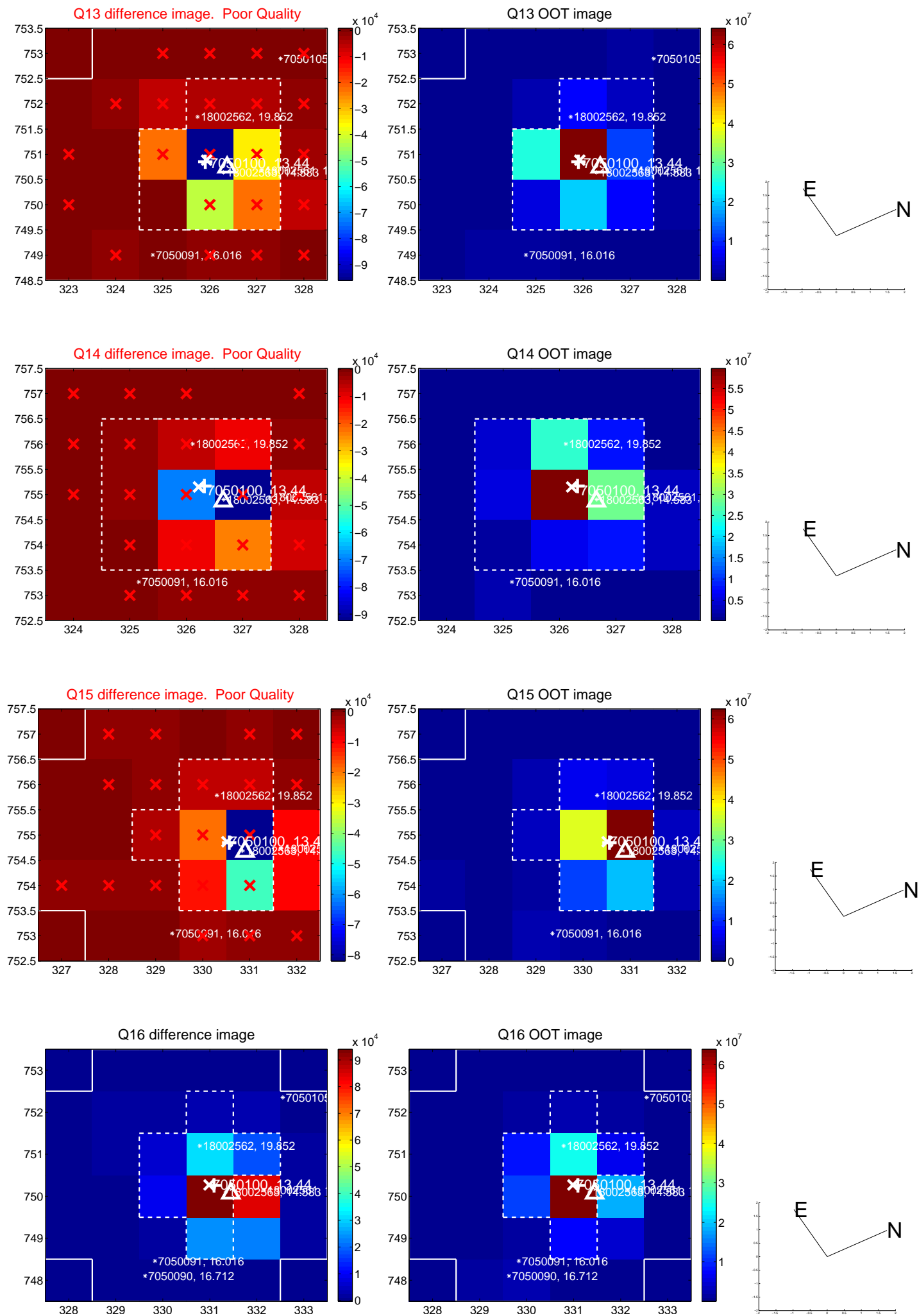
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



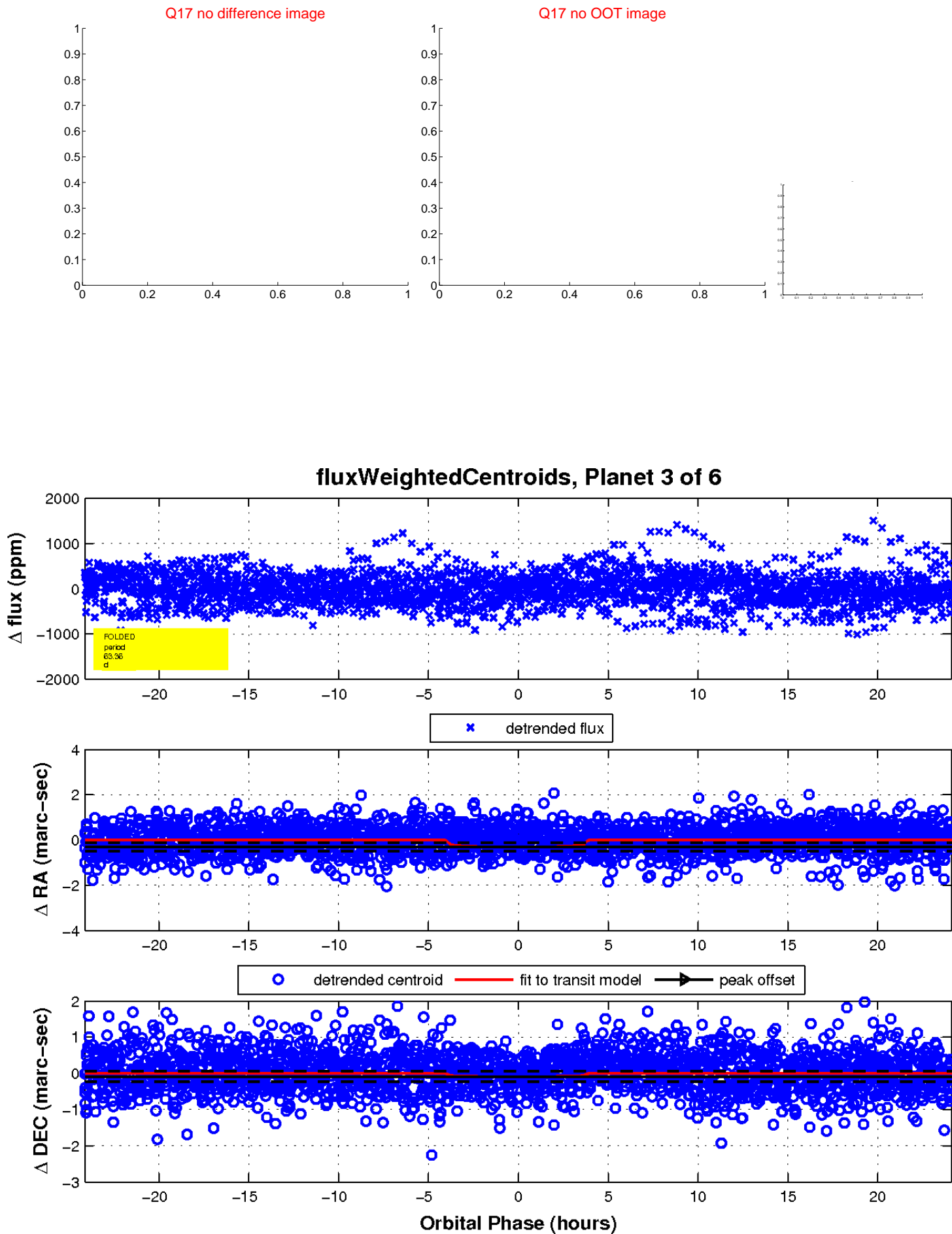
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

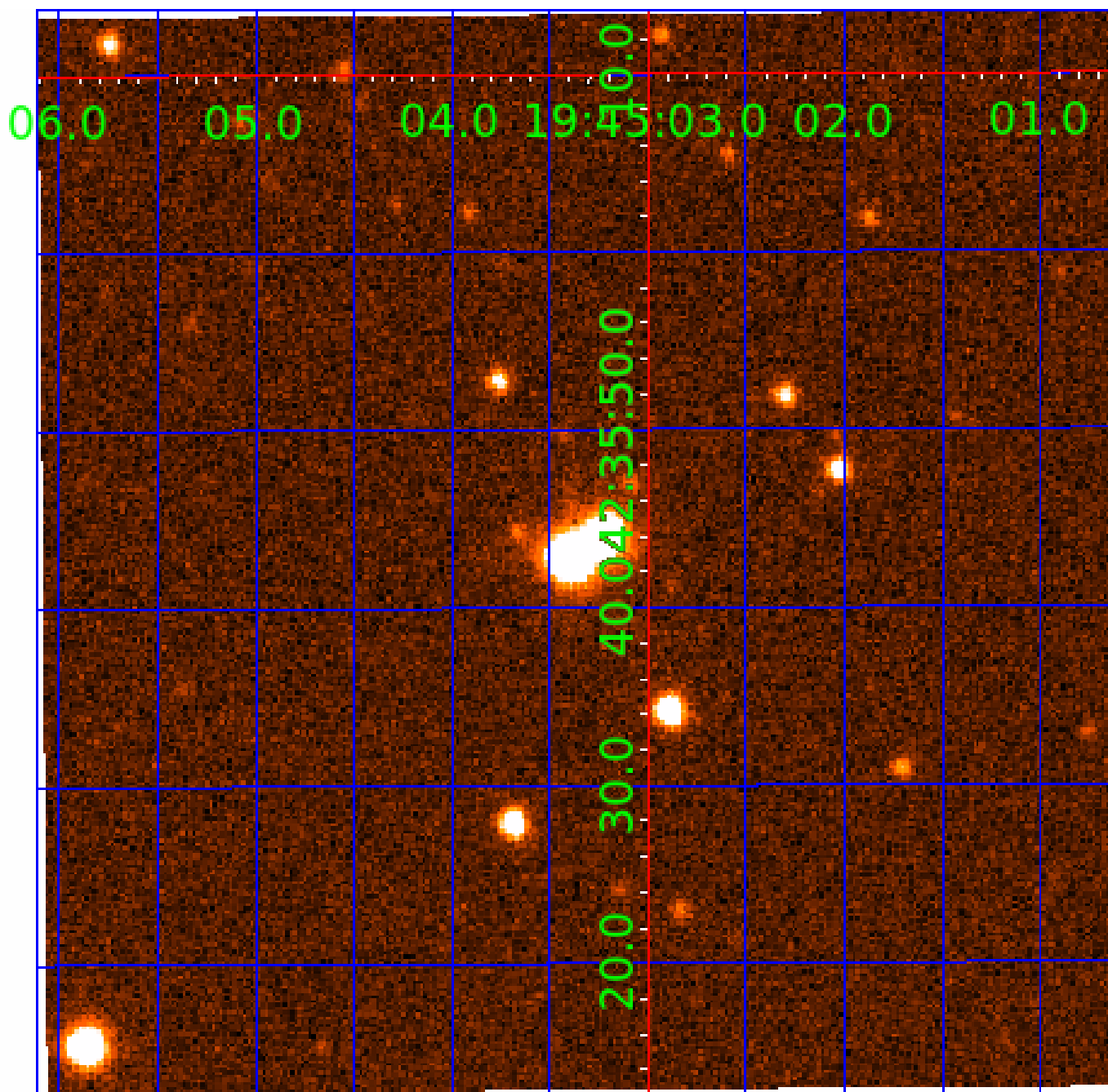


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007050100

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})
007050100-01	OBS	No	0.965766	132.304412	0.0	5.543	10.1	0.0	3.54	6498	0.00	38995.66
007050100-02	OBS	No	112.222739	162.952825	690.3	12.514	11.1	7.5	3.54	6498	17.68	68.77
007050100-03	OBS	No	63.361647	161.995916	173.9	8.041	9.2	3.8	3.54	6498	5.23	147.37
007050100-04	OBS	No	50.457185	153.911184	298.1	4.107	9.0	7.7	3.54	6498	7.20	199.66
007050100-05	OBS	No	14.240562	143.253769	293.0	9.550	8.6	9.7	3.54	6498	11.72	1078.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007050100-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET
007050100-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_UNRESOLVED_OFFSET
007050100-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_UNRESOLVED_OFFSET
007050100-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_UNRESOLVED_OFFSET
007050100-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET

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

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

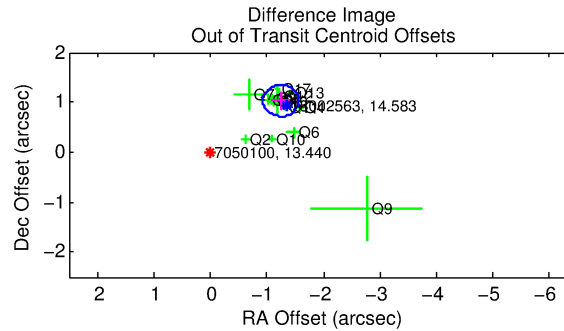
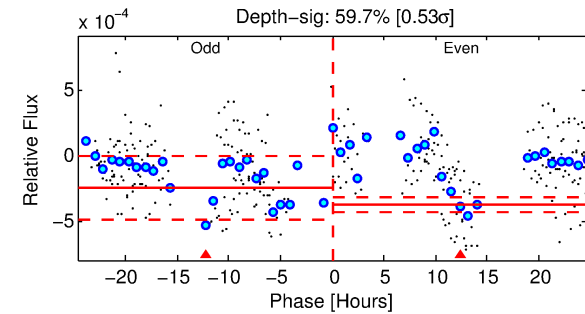
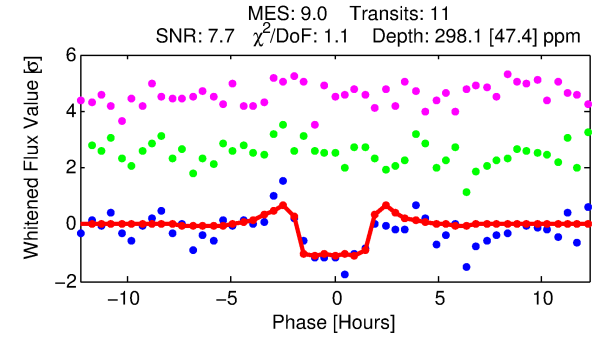
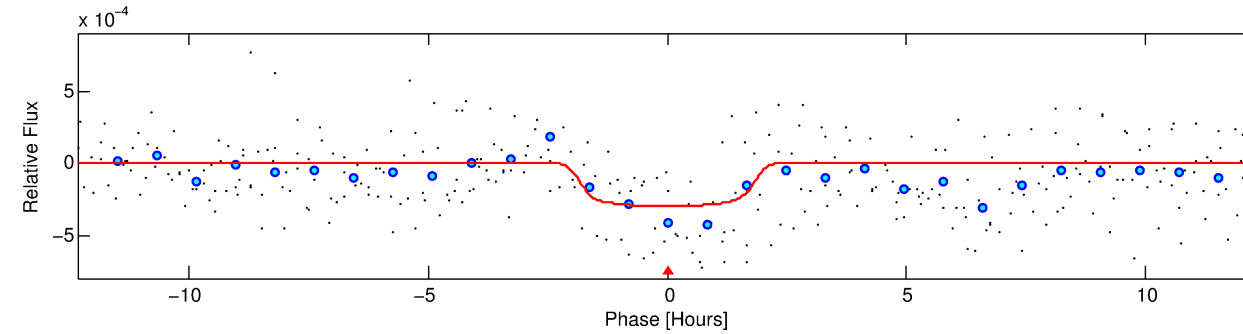
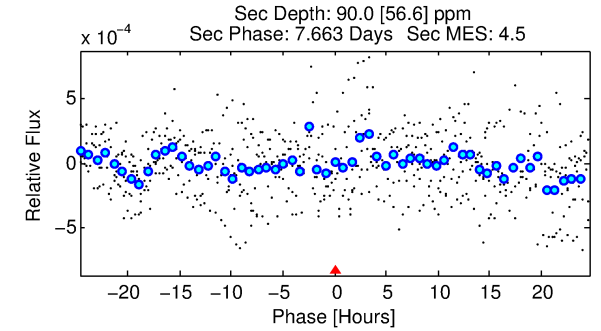
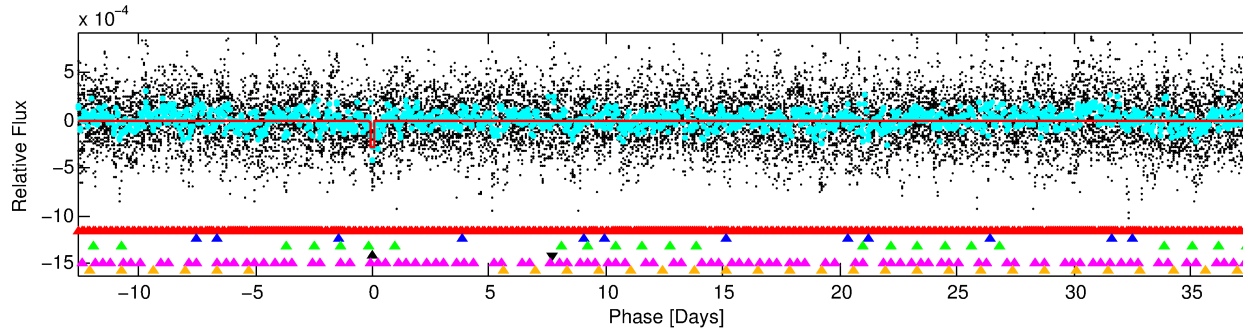
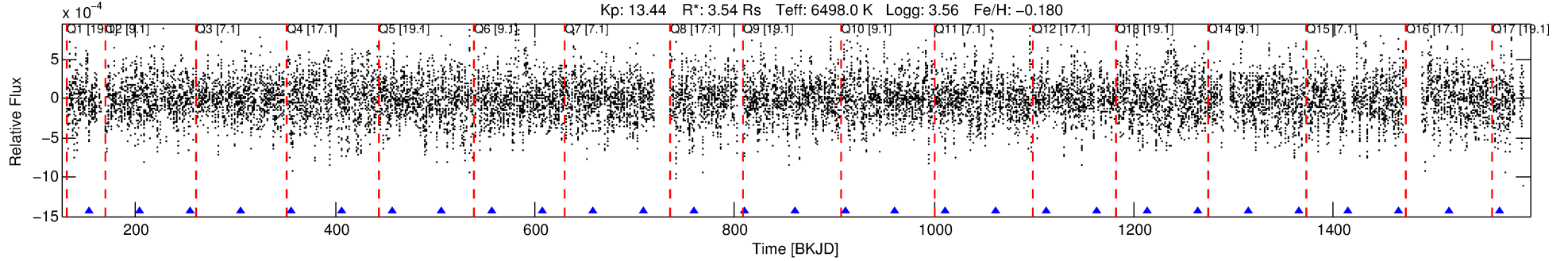
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007050100-04

No Significant Match Found

DV One-Page Summary

KIC: 7050100 Candidate: 4 of 6 Period: 50.457 d



DV Fit Results:

Period = 50.45718 [0.00055] d
Epoch = 153.9112 [0.0073] BKJD
Rp/R* = 0.0186 [0.0039]
a/R* = 43.03 [43.70]
b = 0.91 [0.19]
Seff = 199.66 [121.07]
Teq = 959 [145] K
Rp = 7.20 [3.21] Re
a = 0.3168 [0.1155] AU
Ag = 95.85 [90.70] [1.05σ]
Teffp = 4637 [907] K [4.00σ]

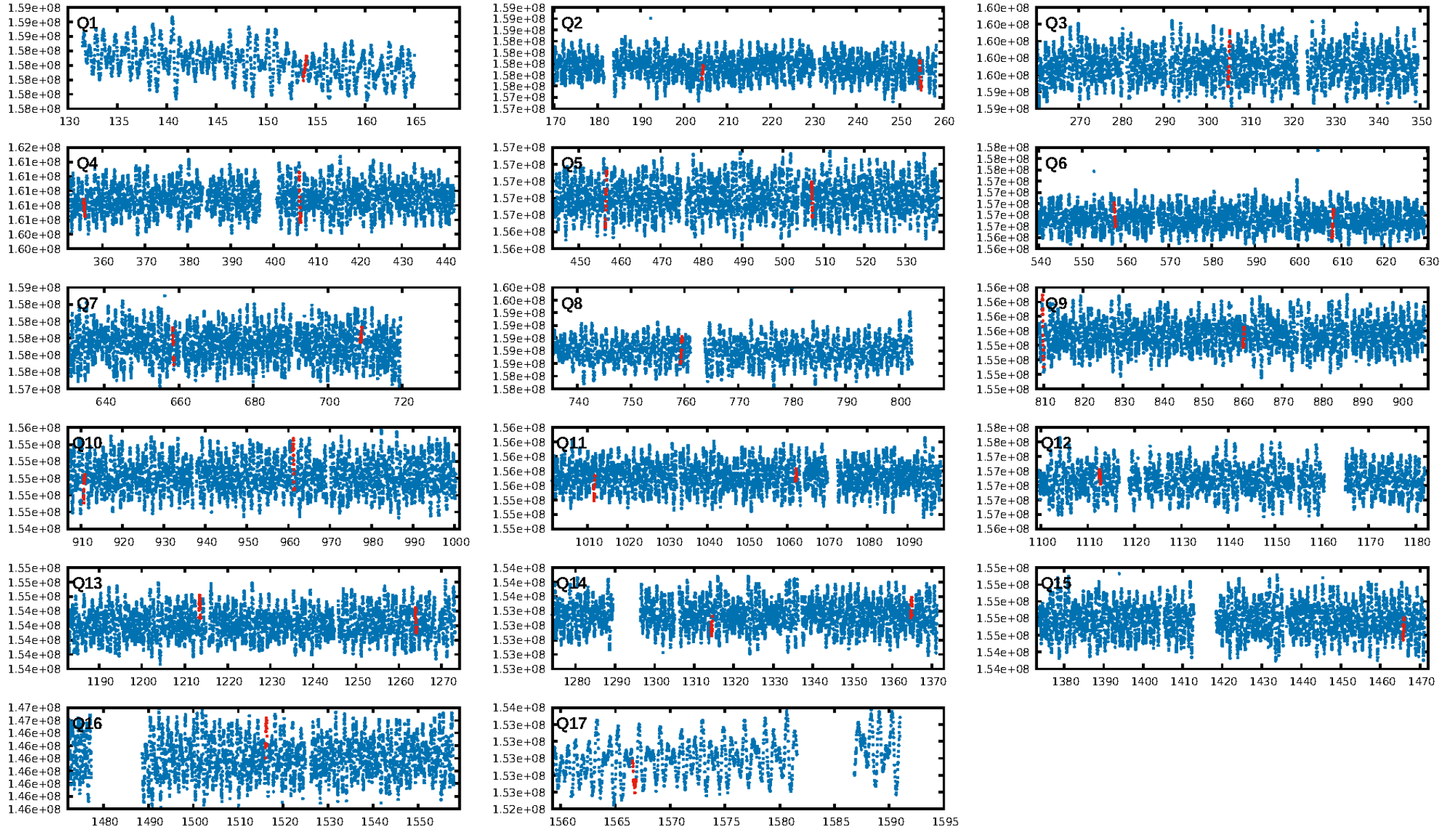
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [6.43σ]
LongPeriod-sig: 100.0% [34.30σ]
ModelChiSquare2-sig: 4.3%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [10/10]
GhostDiagnostic-chr: 0.6799
Centroid-sig: 22.2%
Centroid-so: 0.393 arcsec [0.80σ]
OotOffset-rm: 1.616 arcsec [15.47σ]
KicOffset-rm: 1.732 arcsec [18.01σ]
OotOffset-st: 3/4/3/4 [14]
KicOffset-st: 3/4/3/4 [14]
DiffImageQuality-fgm: 0.43 [6/14]
DiffImageOverlap-fno: 0.00 [0/16]

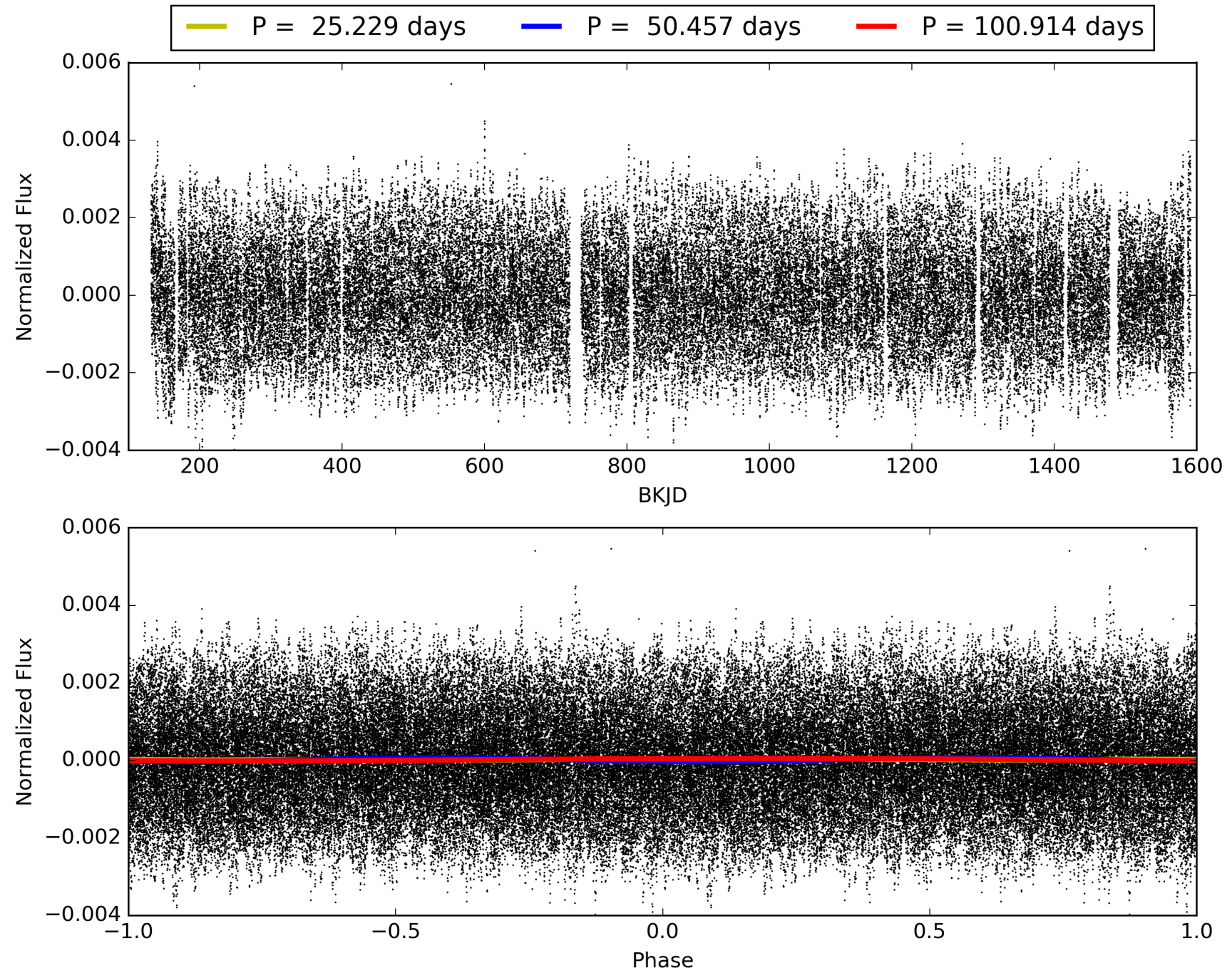
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 07:56:19 Z

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

TCE 007050100-04, PDC Light Curves

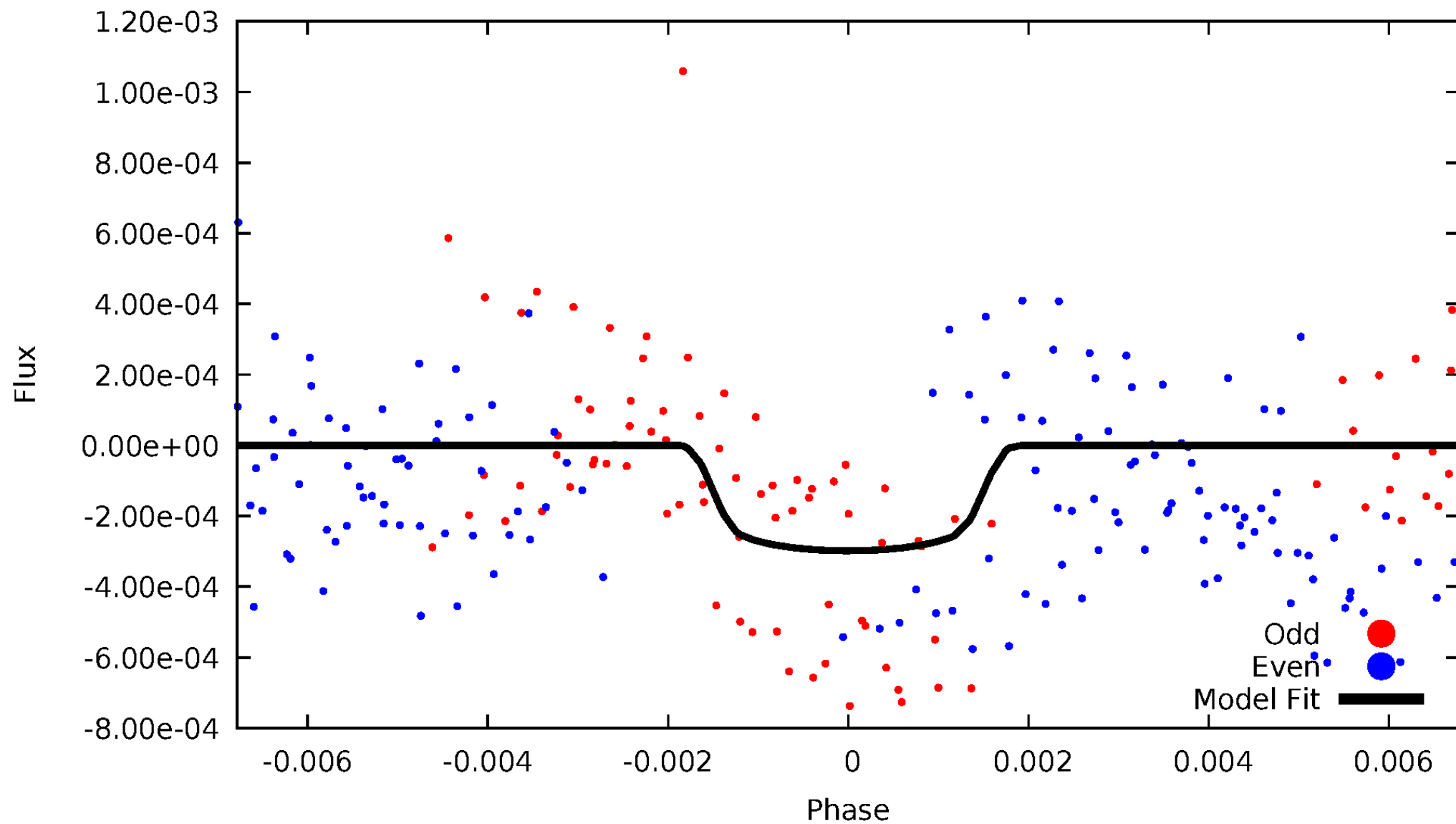


TCE 007050100-04



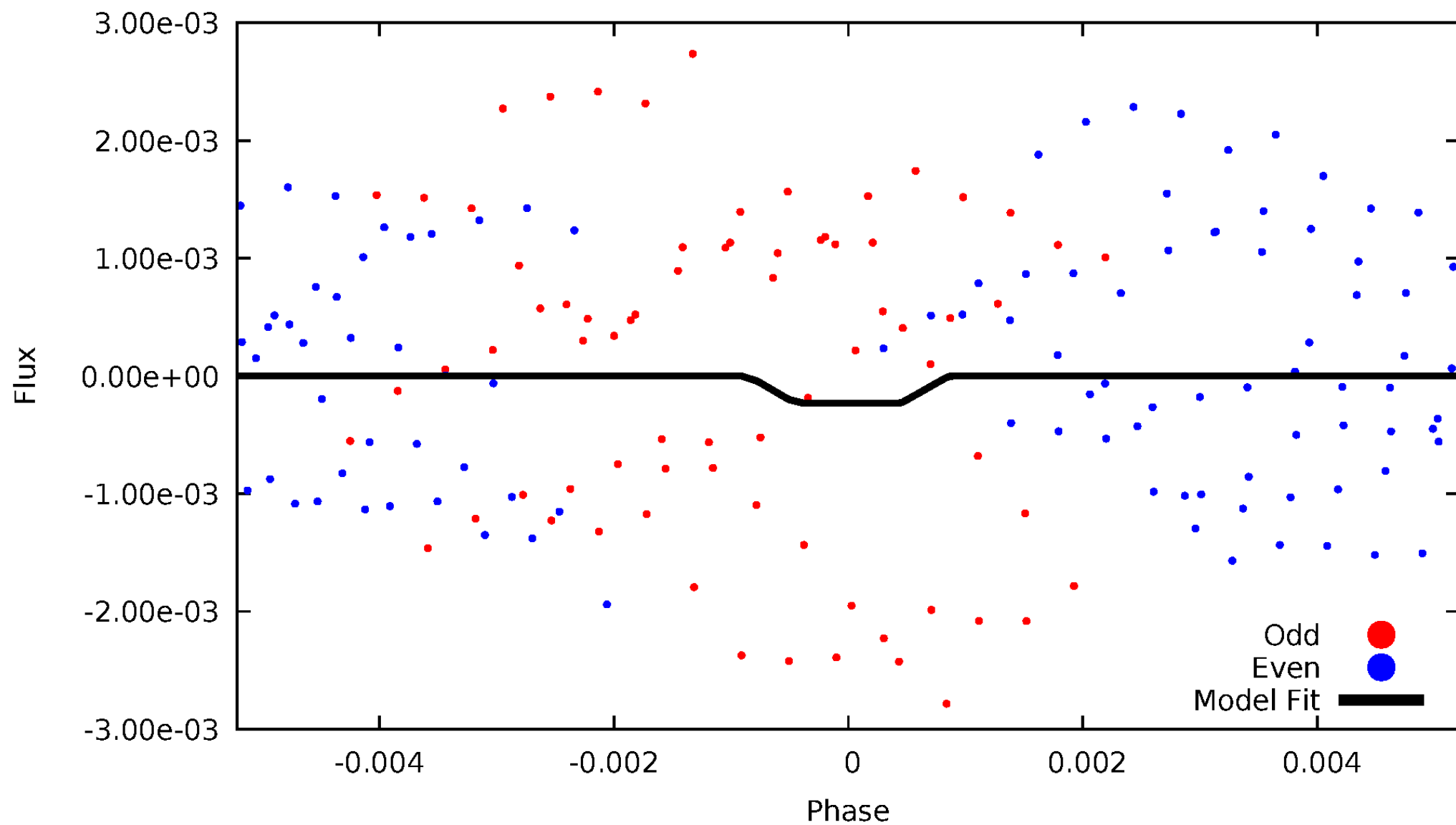
DV Odd/Even

TCE 007050100-04



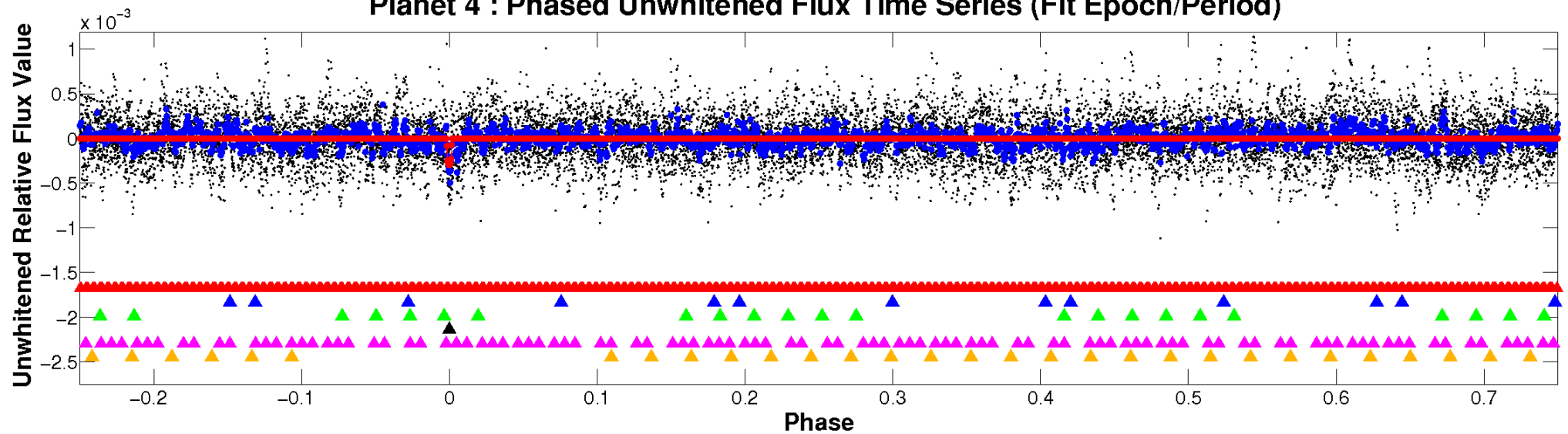
ALT Odd/Even

TCE 007050100-04

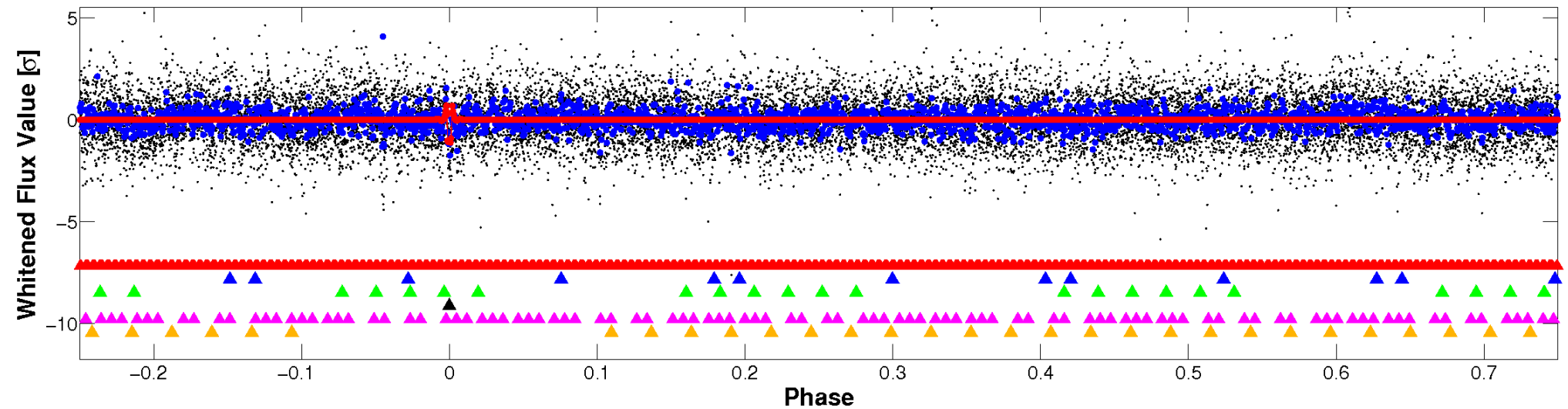


Non-Whitened Vs. Whitened Light Curve

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

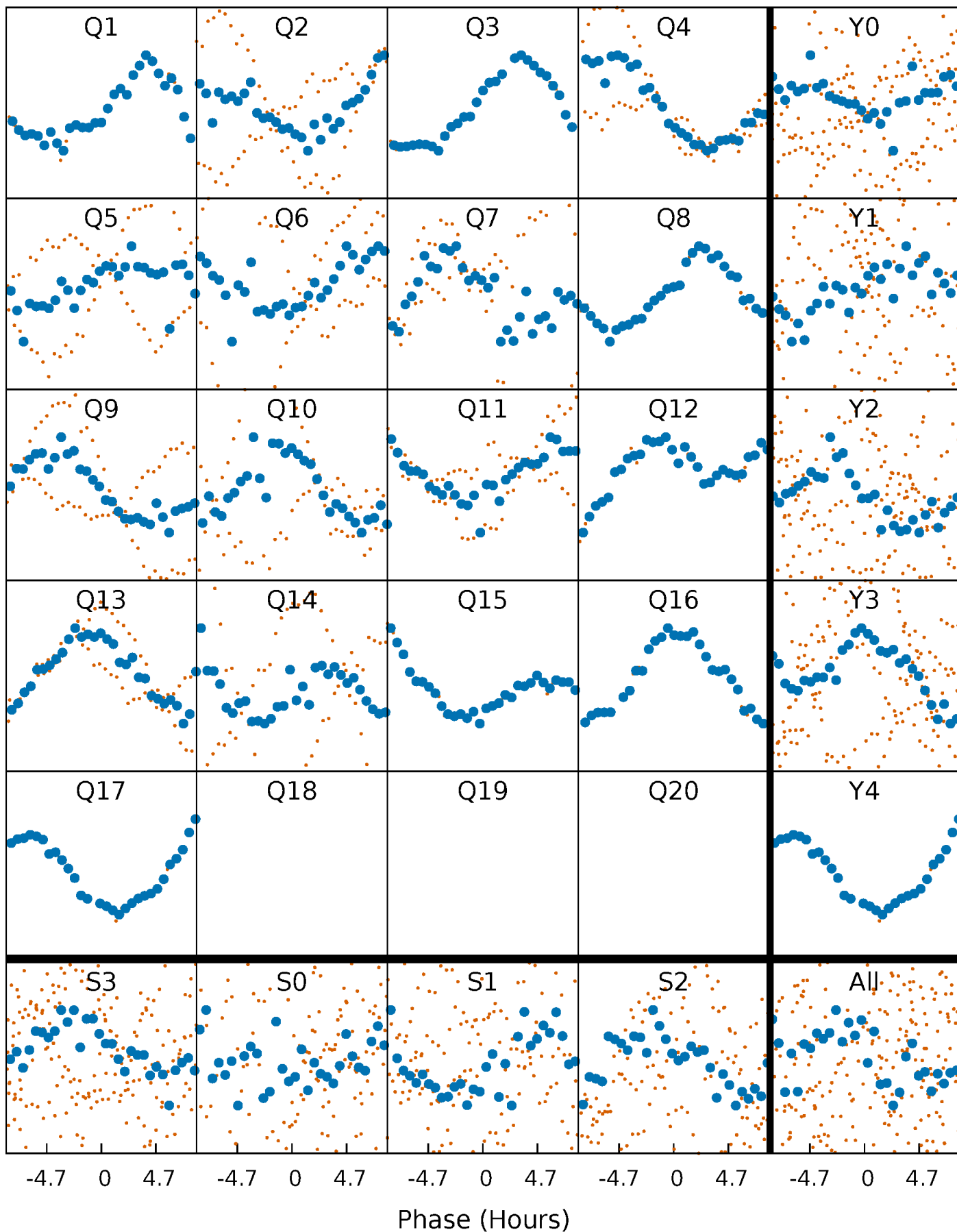


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



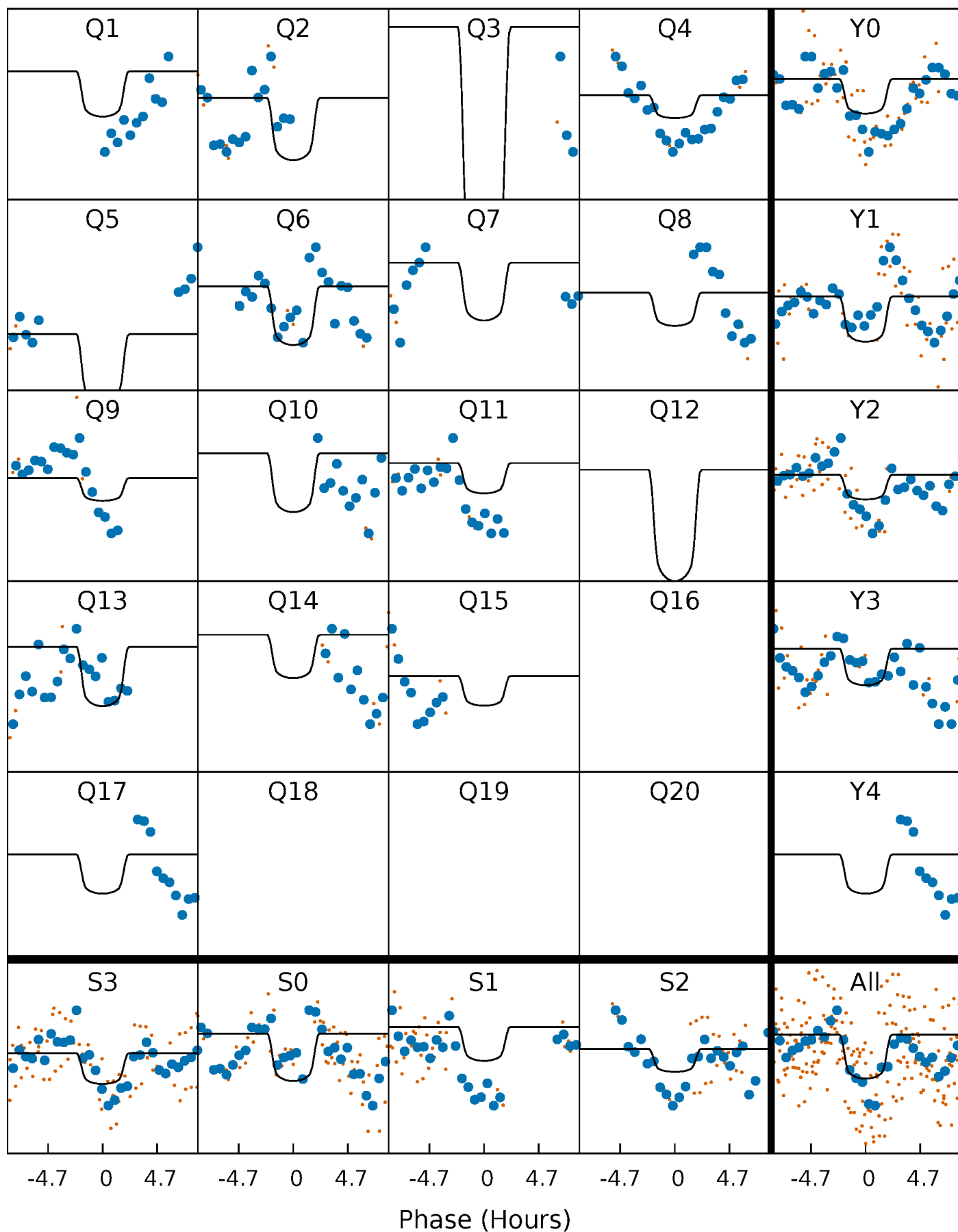
PDC Quarter-Phased Transit Curves

TCE 007050100-04 P= 50.457185 Days $T_0=153.911184$ (BKJD)



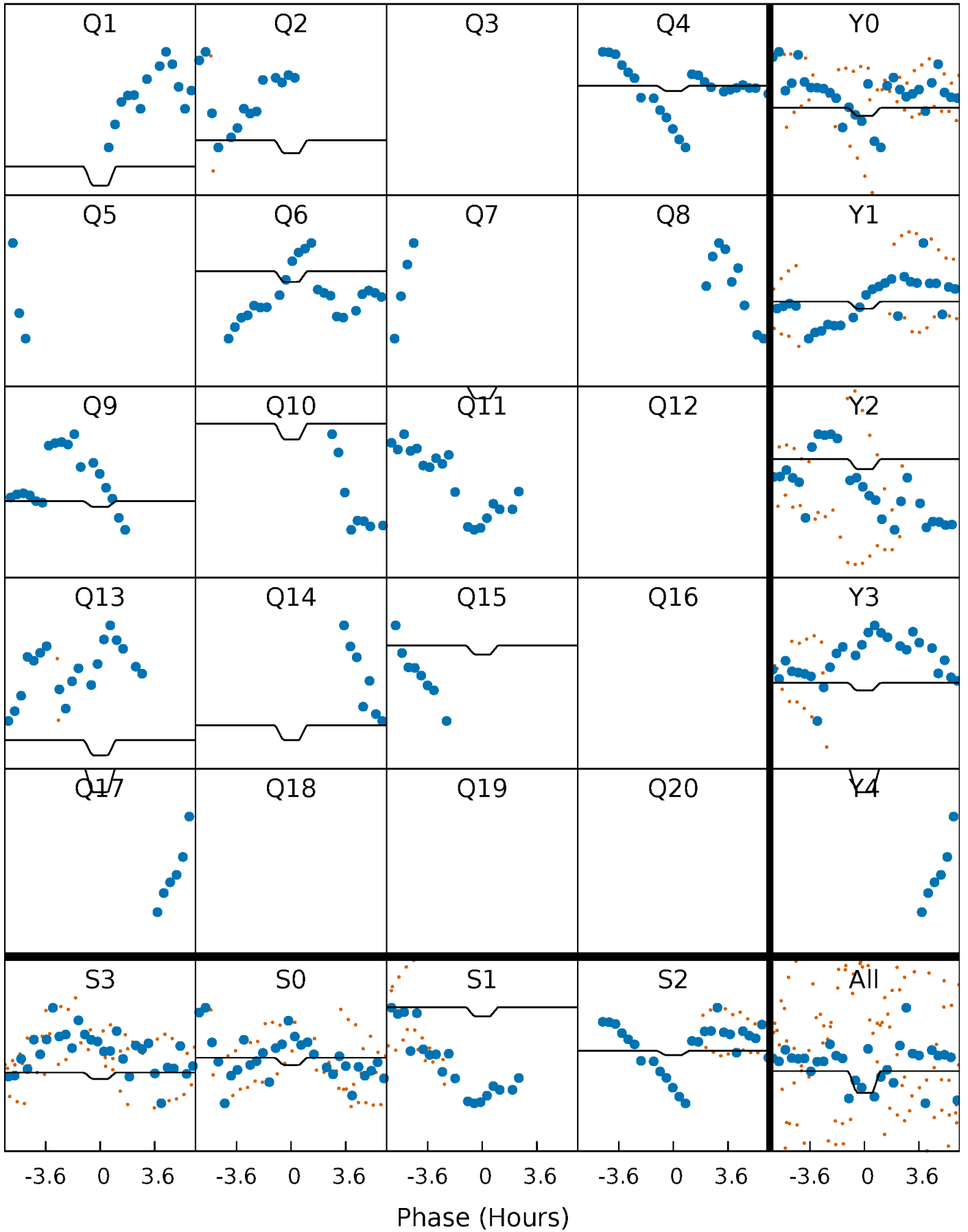
DV Quarter-Phased Transit Curves

TCE 007050100-04 P= 50.457185 Days $T_0=153.911184$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

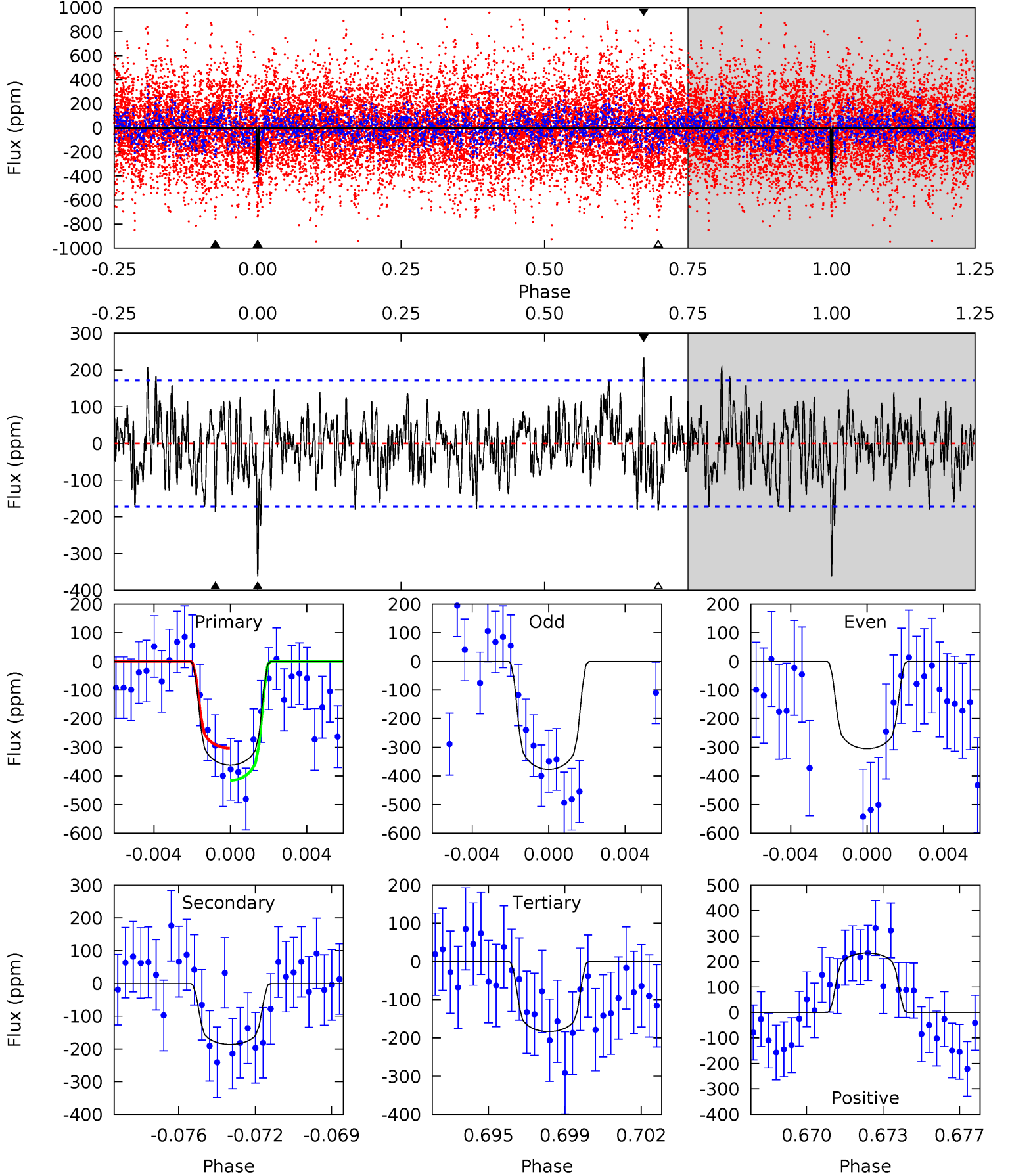
TCE 007050100-04 P= 50.456594 Days $T_0=153.893132$ (BKJD)



DV Model-Shift Uniqueness Test

007050100-04, P = 50.457185 Days, E = 103.453999 Days

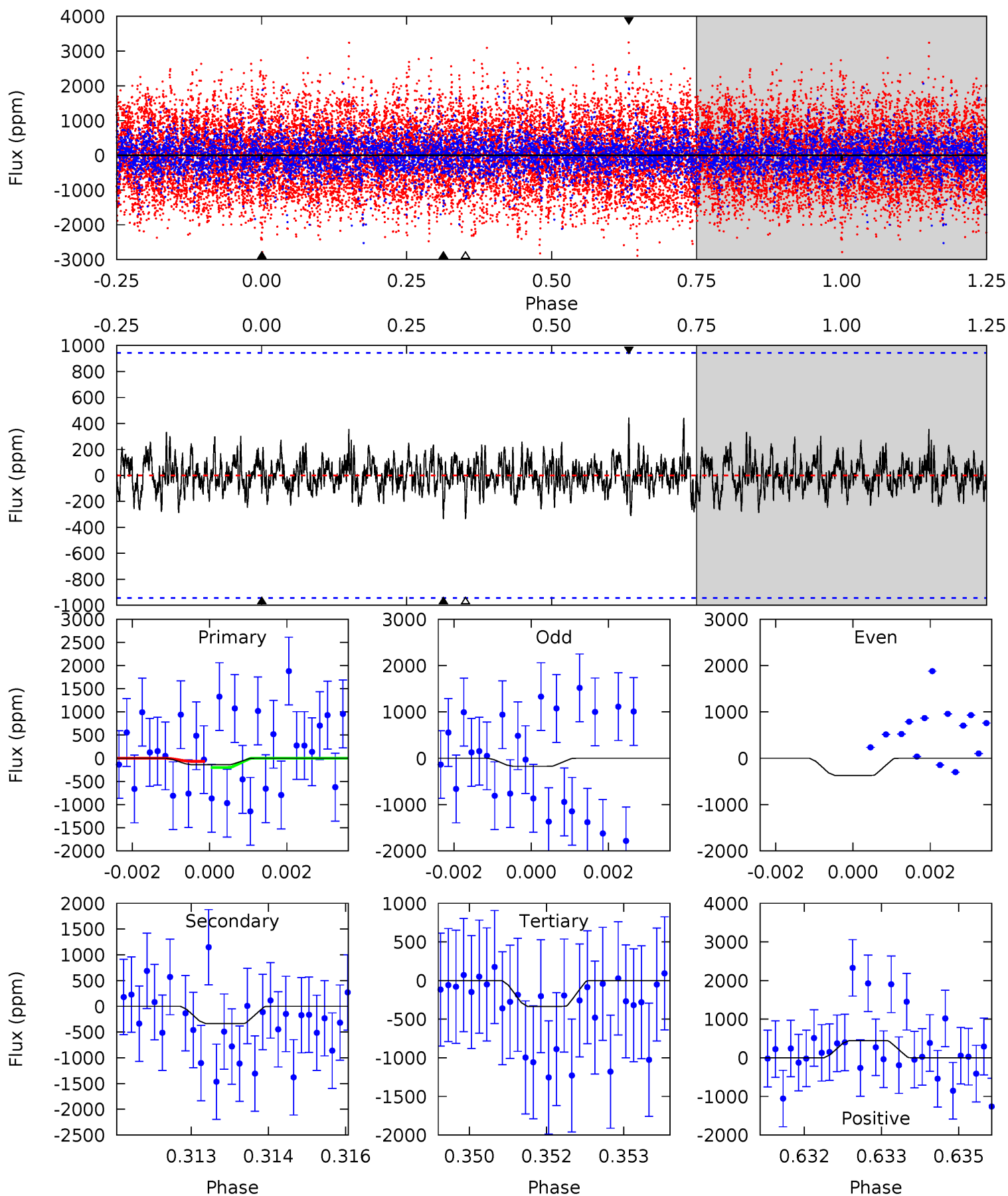
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.0	5.66	5.57	7.09	5.22	2.91	2.00	5.42	3.90	0.09	-1.43	0.97	0.85	0.39	1.71



Alt Model-Shift Uniqueness Test

007050100-04, P = 50.456594 Days, E = 103.436538 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.80	1.91	1.90	2.53	5.36	3.15	0.59	-1.11	-1.73	0.01	-0.62	0.31	-0.11	0.57	0.37



Stellar Parameters For KIC 007050100

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6498^{+334}_{-334}	$3.561^{+0.330}_{-0.110}$	$-0.180^{+0.350}_{-0.250}$	$3.542^{+0.436}_{-1.394}$	$1.665^{+0.213}_{-0.396}$	$0.053^{+0.130}_{-0.014}$
	+5%/-5%	+9%/-3%	+194%/-139%	+12%/-39%	+13%/-24%	+245%/-26%
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 007050100-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-186 ± 33	$6.79^{+2.04}_{-1.77}$	1319^{+105}_{-133}	5561^{+787}_{-547}	219^{+177}_{-88}
Alt.	-336 ± 176	$5.57^{+1.92}_{-1.55}$	1324^{+95}_{-133}	7228^{+1703}_{-1509}	599^{+661}_{-367}

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

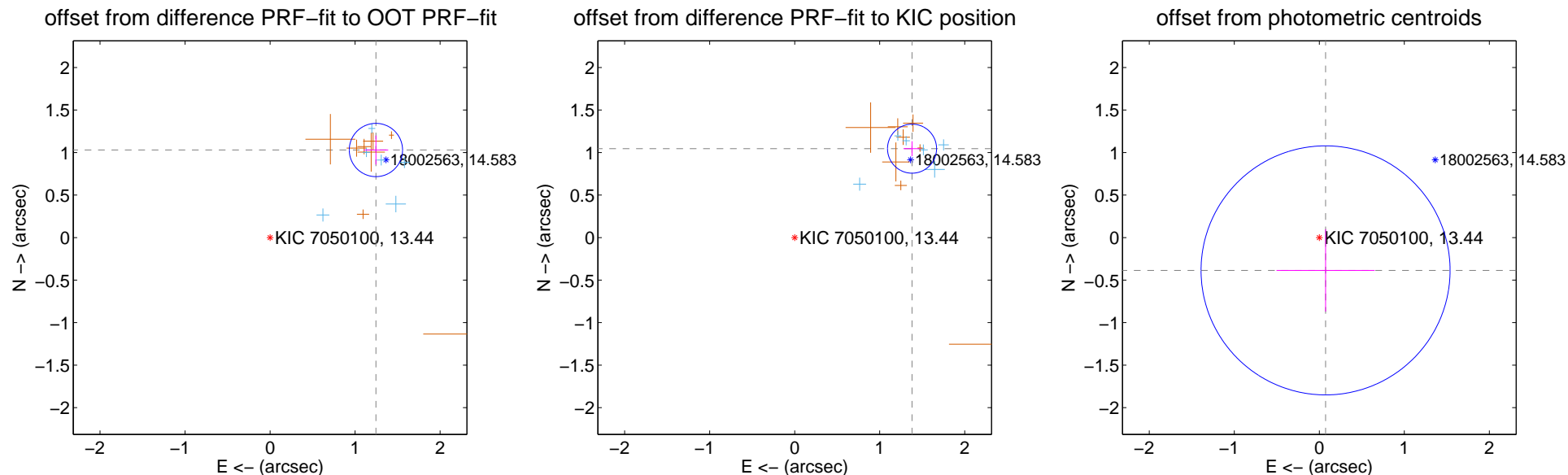
DV Centroid Data

Supplemental centroid analysis for 007050100-04. Kepler magnitude: 13.44. Transit SNR 7.69

There are 6 quarters with good PRF difference image offsets

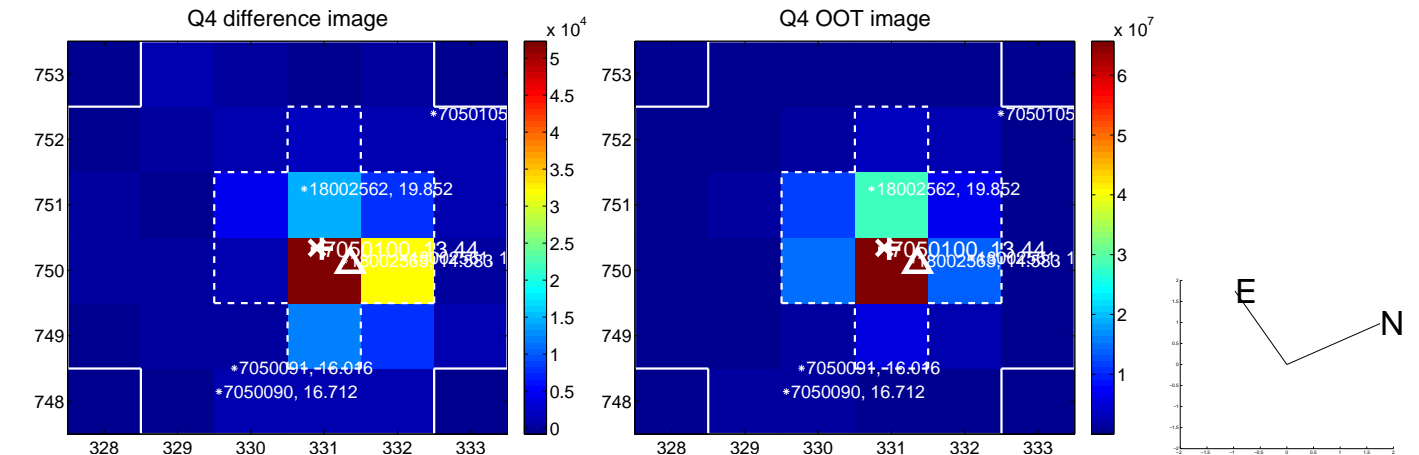
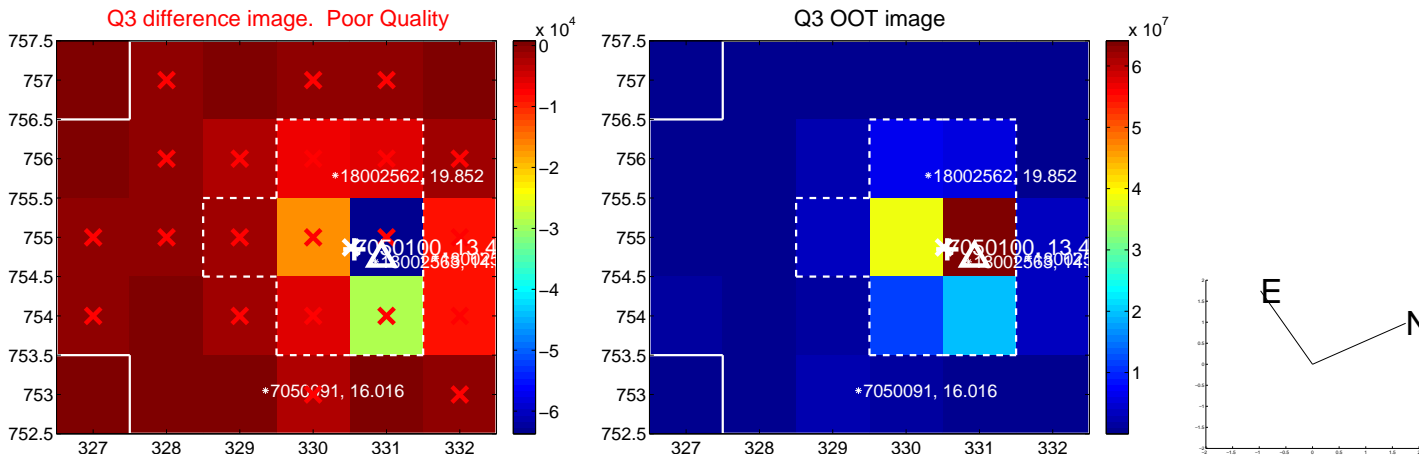
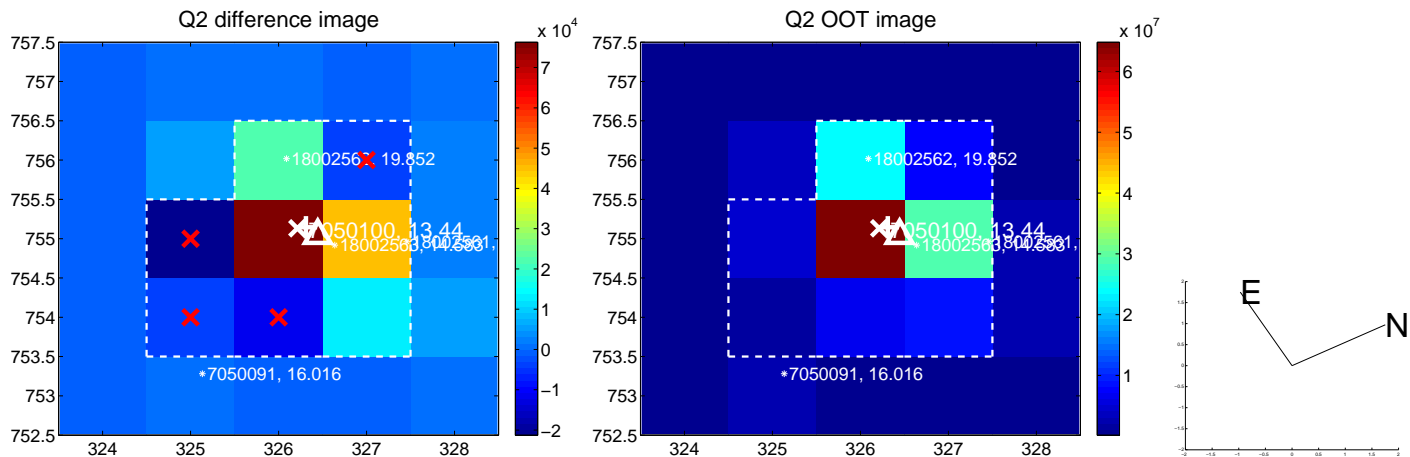
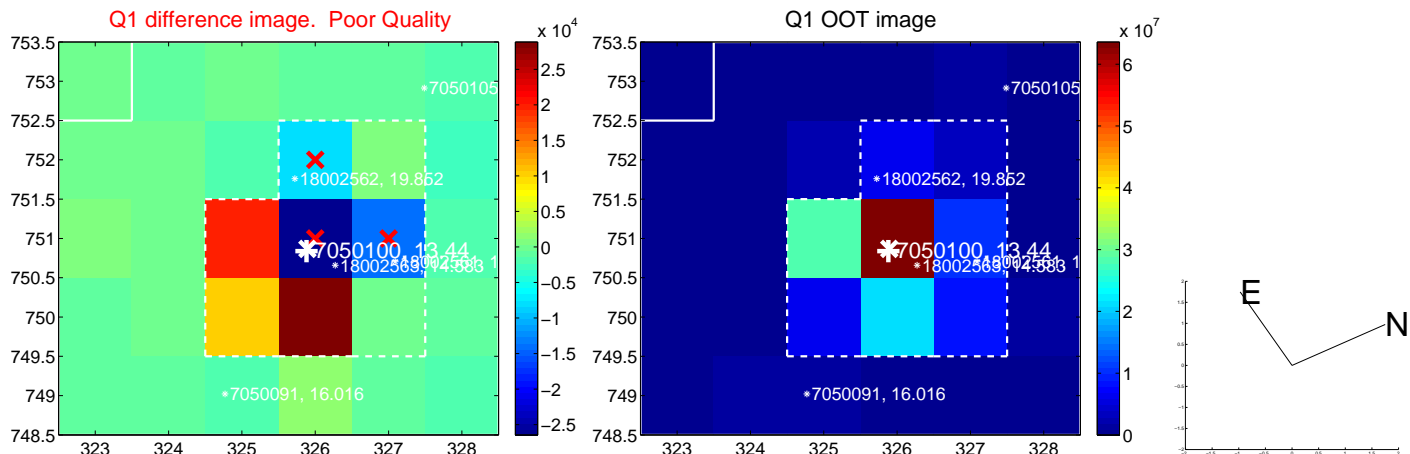
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.616 ± 0.104	15.47	-1.245 ± 0.144	1.030 ± 0.170
PRF-fit source offset from KIC position	1.732 ± 0.096	18.01	-1.380 ± 0.101	1.046 ± 0.087
photometric centroid source offset	0.39 ± 0.49	0.80	-0.07 ± 0.58	-0.39 ± 0.48

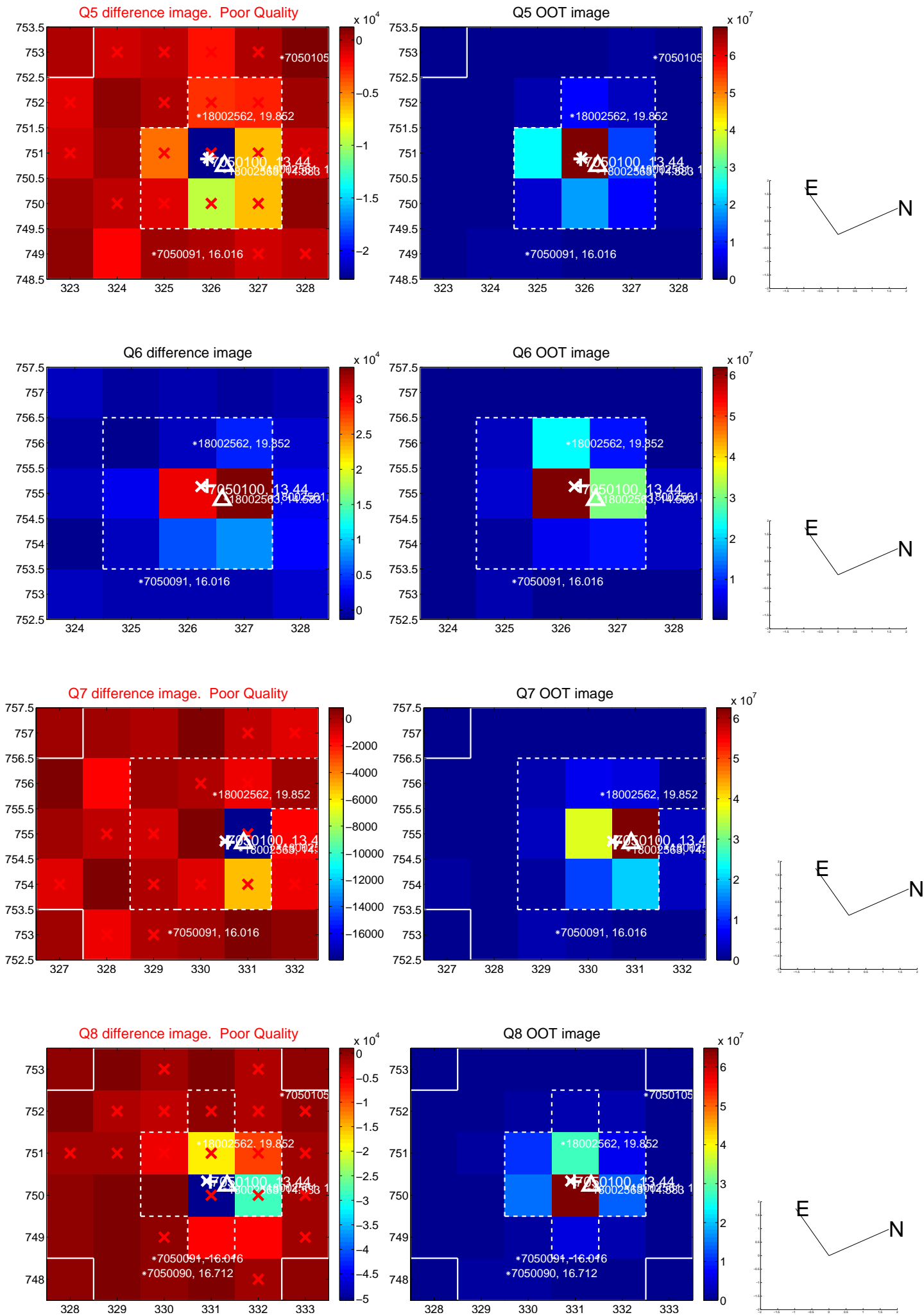


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

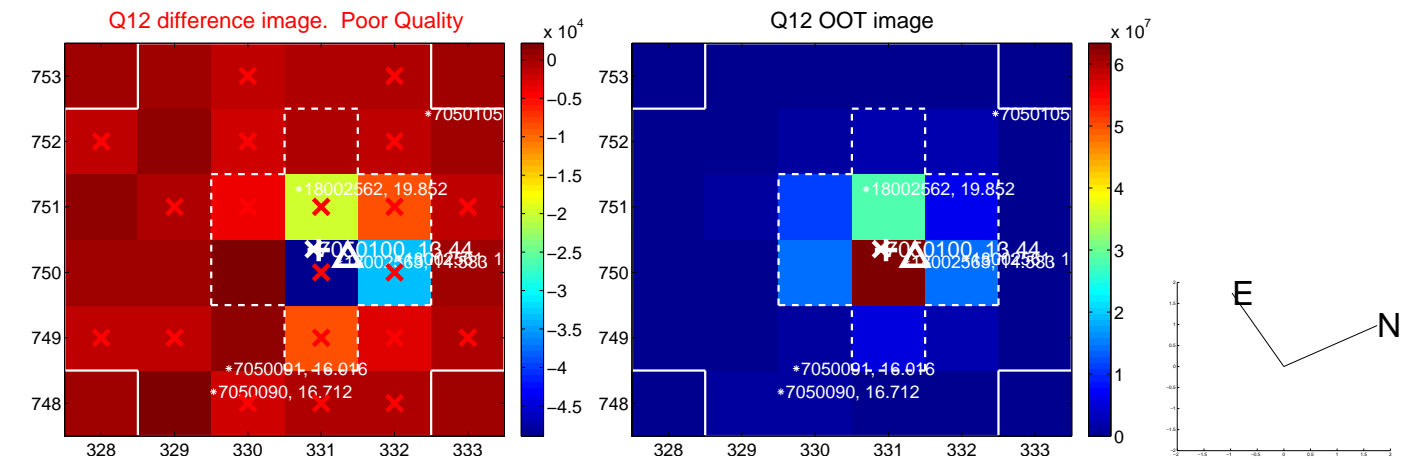
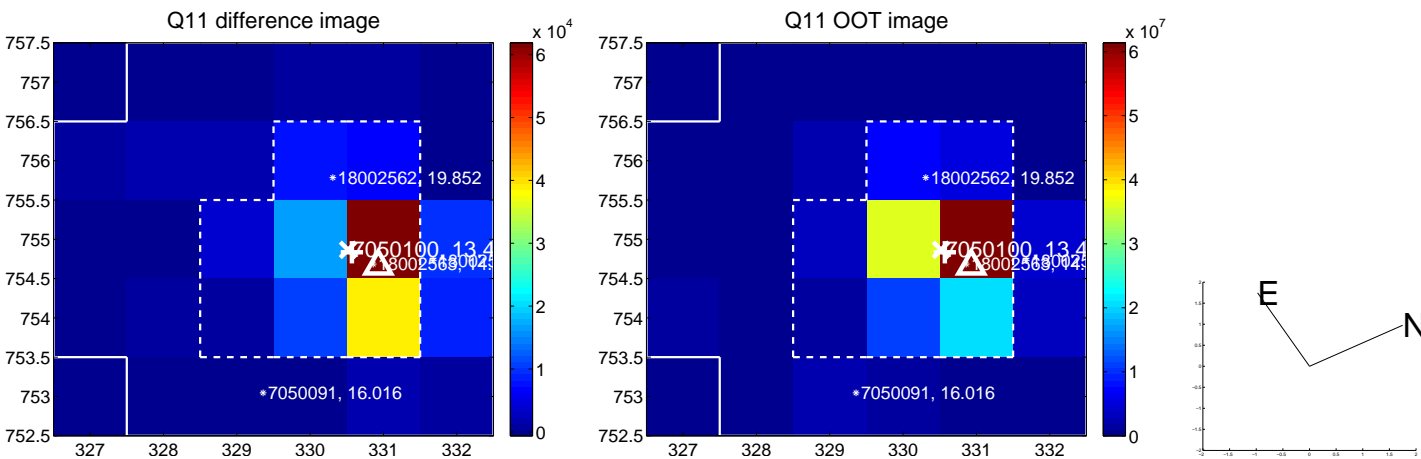
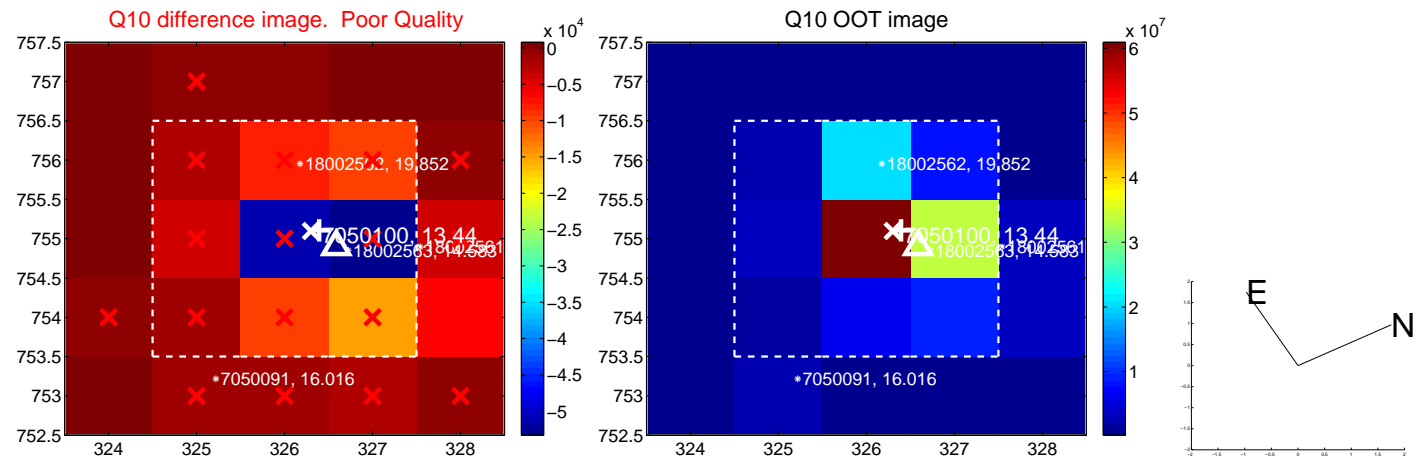
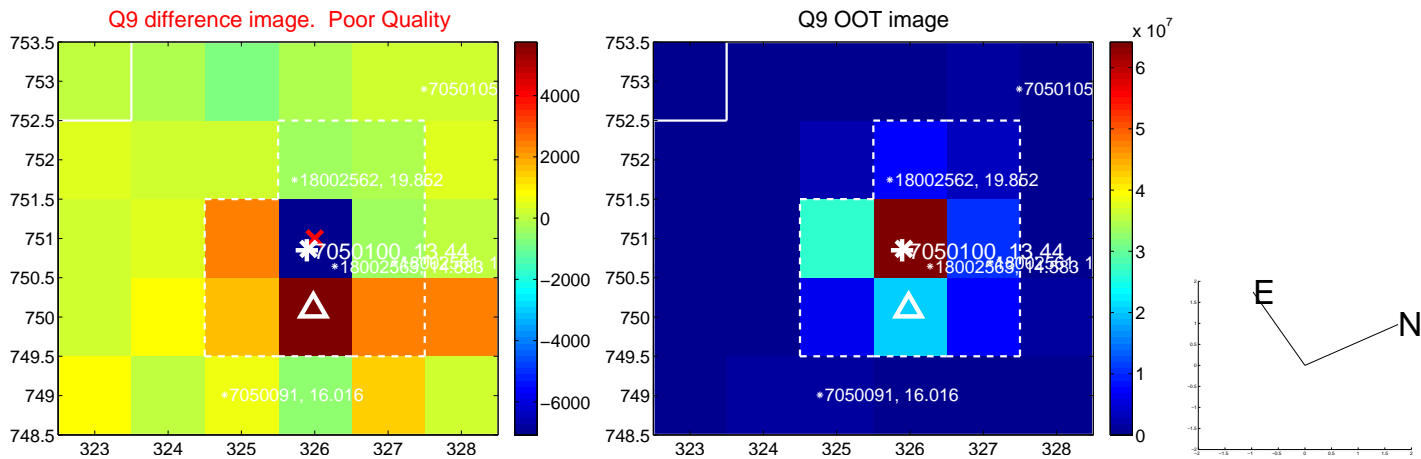
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



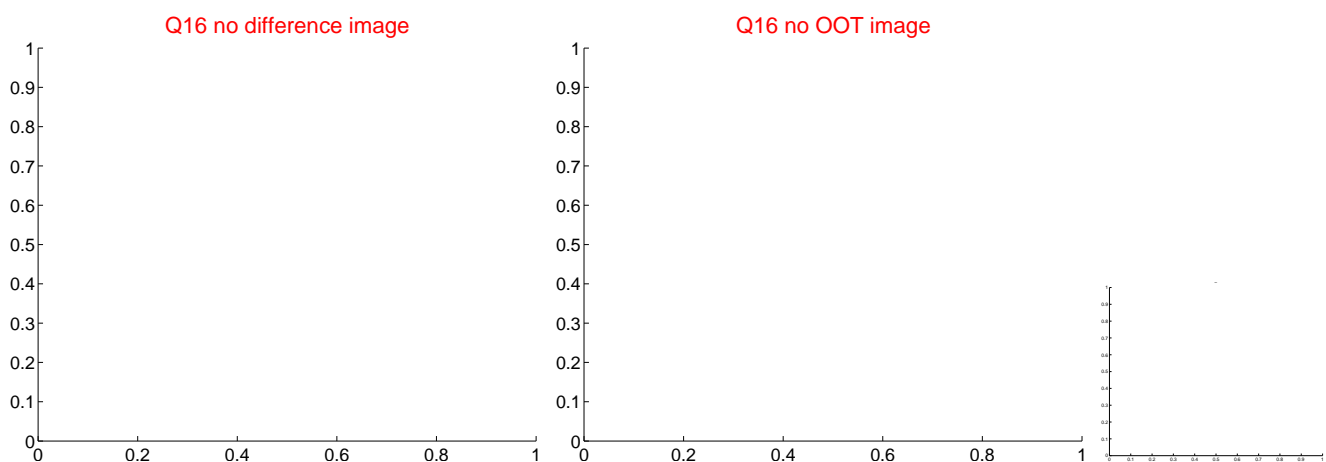
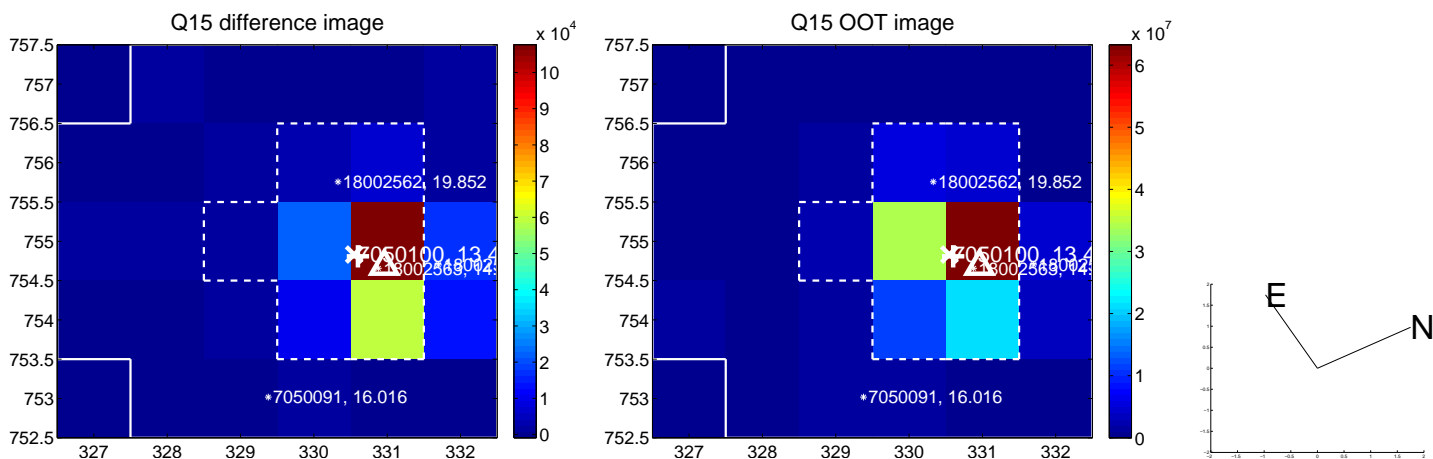
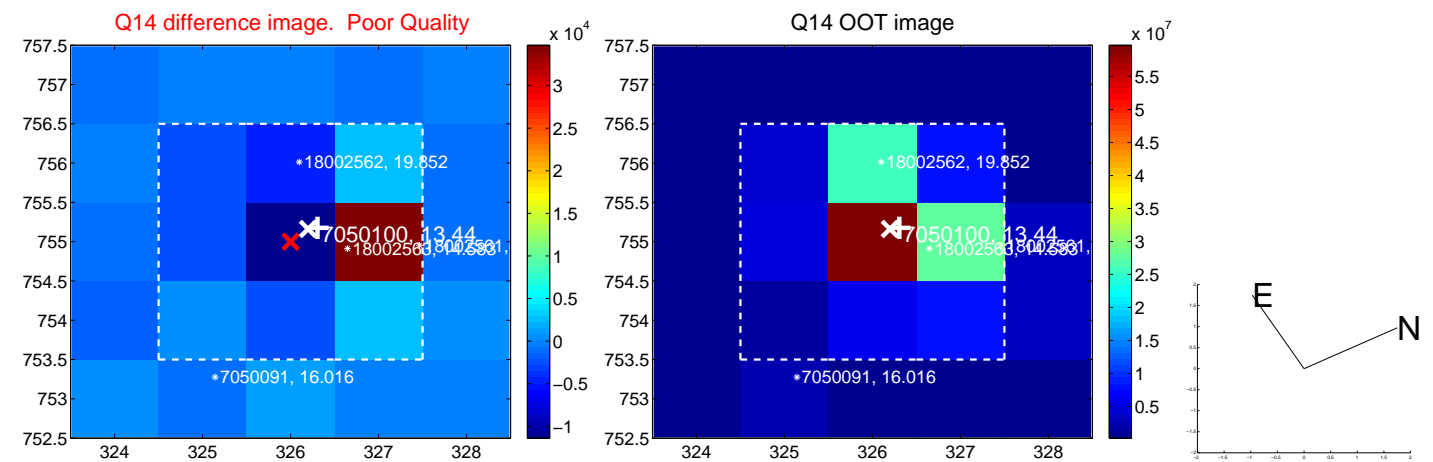
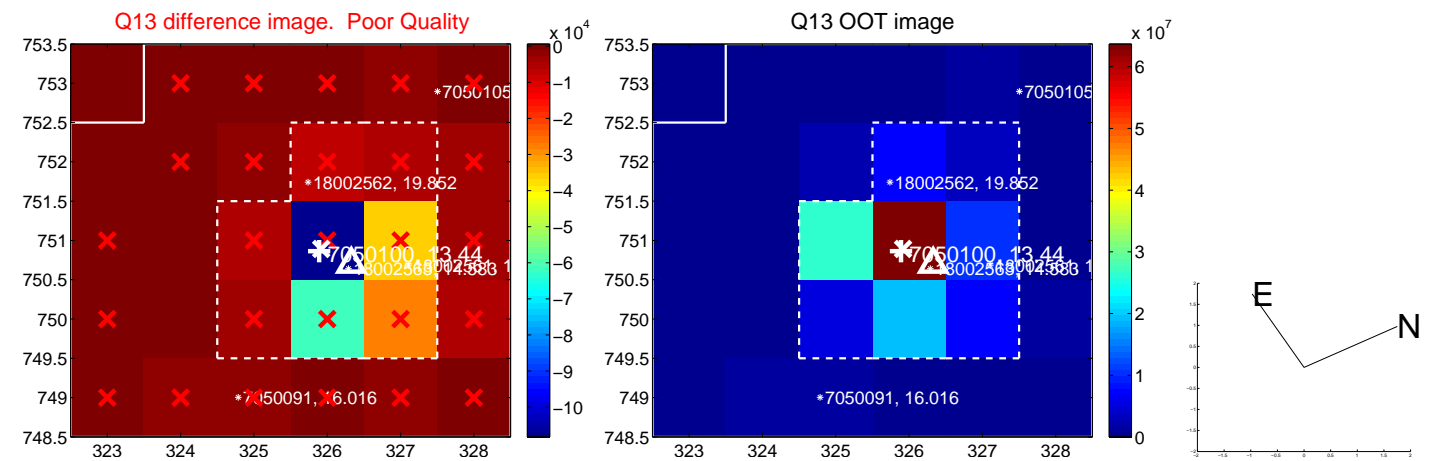
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



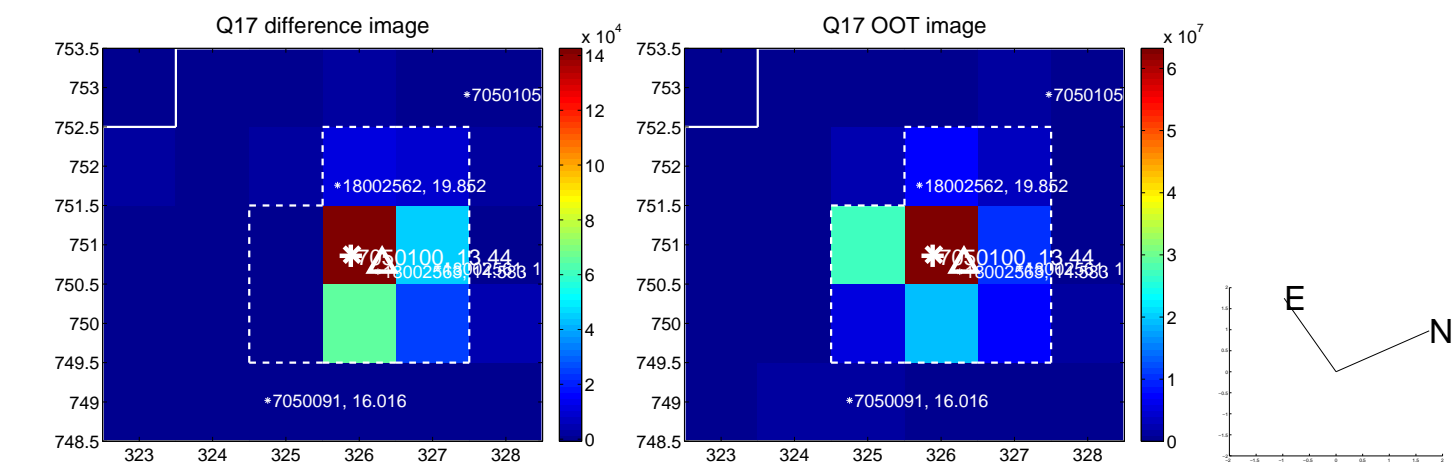
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



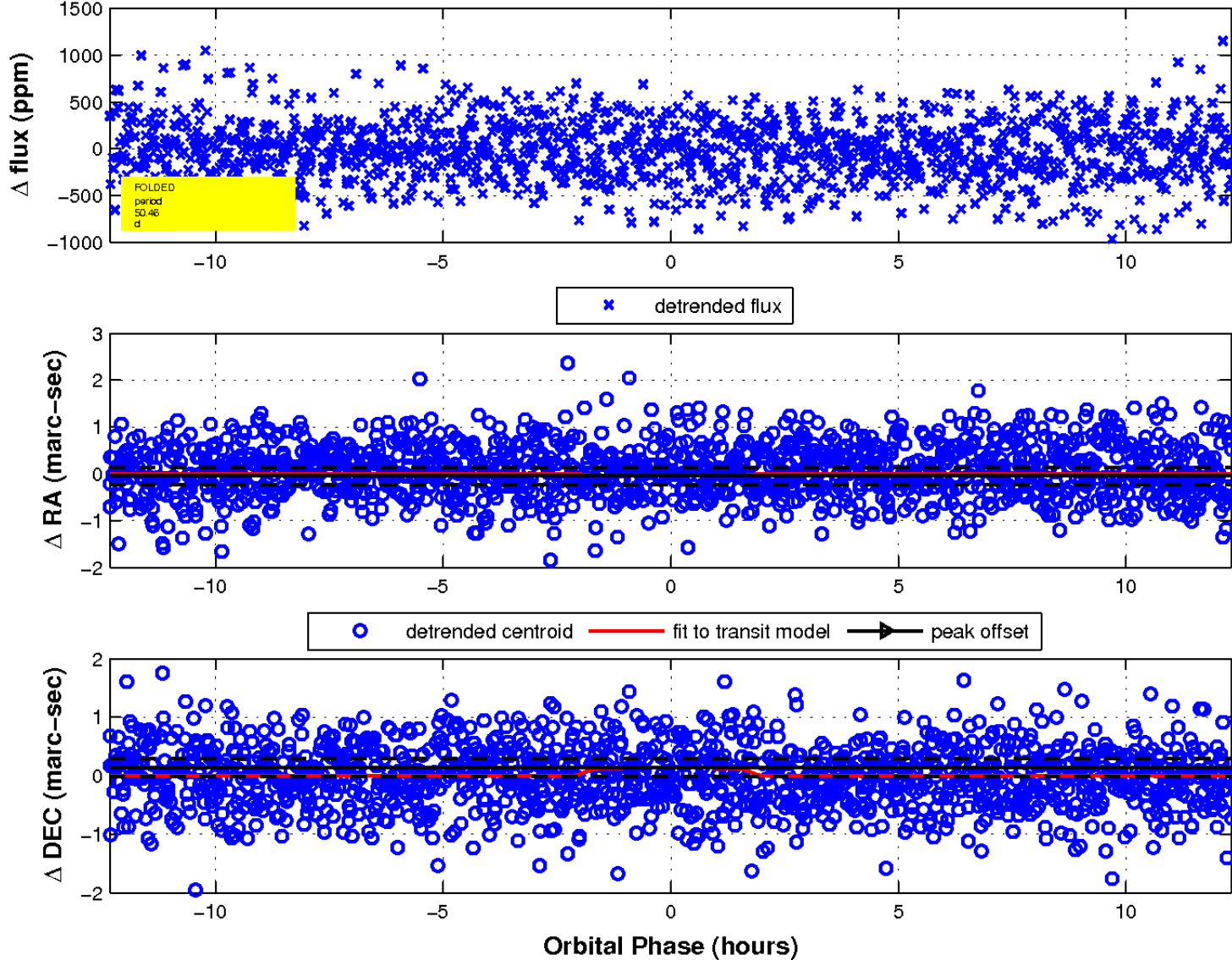
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

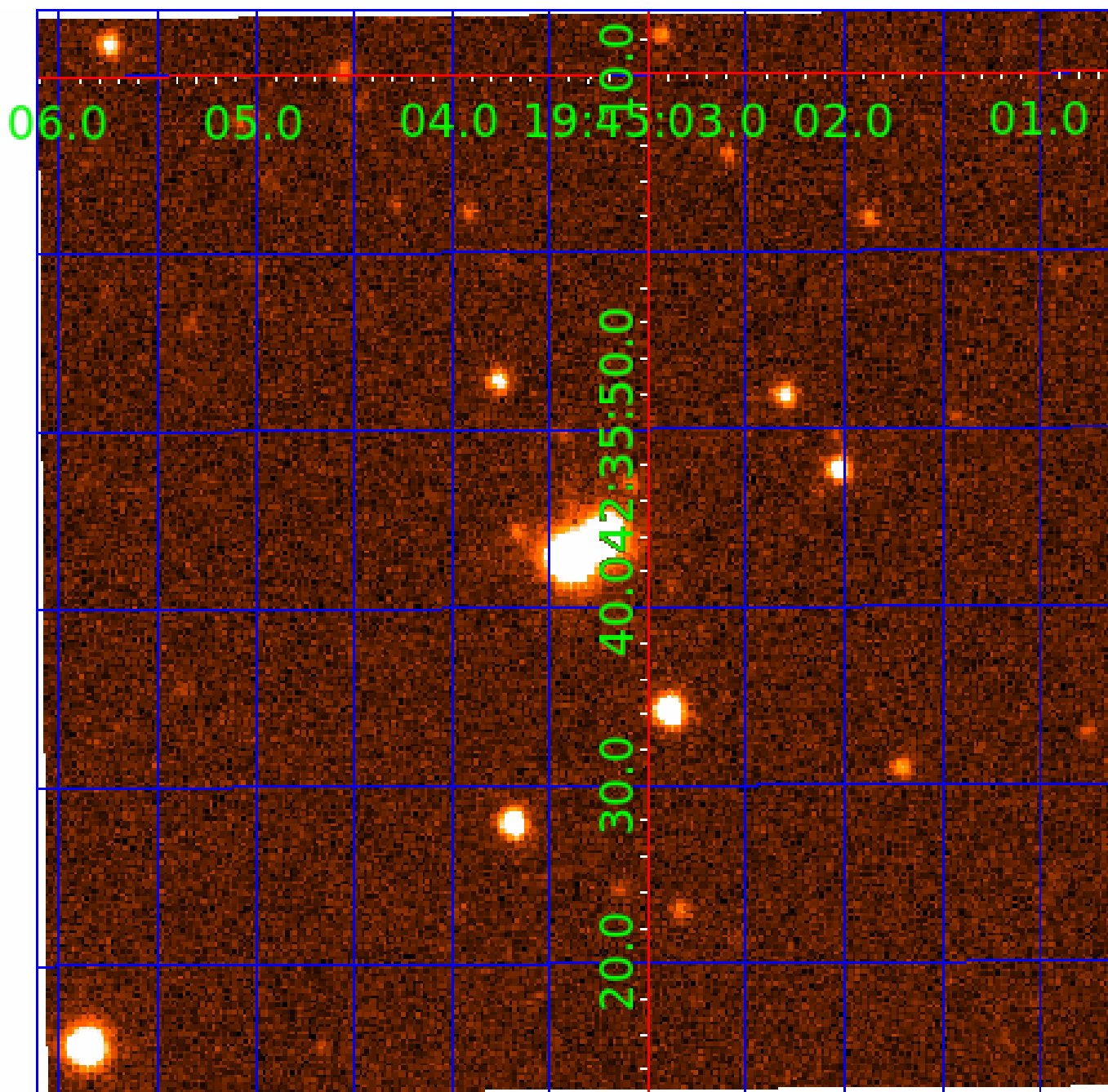


fluxWeightedCentroids, Planet 4 of 6



UKIRT Image

Declination



KIC 007050100

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})
007050100-01	OBS	No	0.965766	132.304412	0.0	5.543	10.1	0.0	3.54	6498	0.00	38995.66
007050100-02	OBS	No	112.222739	162.952825	690.3	12.514	11.1	7.5	3.54	6498	17.68	68.77
007050100-03	OBS	No	63.361647	161.995916	173.9	8.041	9.2	3.8	3.54	6498	5.23	147.37
007050100-04	OBS	No	50.457185	153.911184	298.1	4.107	9.0	7.7	3.54	6498	7.20	199.66
007050100-05	OBS	No	14.240562	143.253769	293.0	9.550	8.6	9.7	3.54	6498	11.72	1078.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007050100-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET
007050100-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_UNRESOLVED_OFFSET
007050100-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_UNRESOLVED_OFFSET
007050100-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_UNRESOLVED_OFFSET
007050100-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_UNRESOLVED_OFFSET

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

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

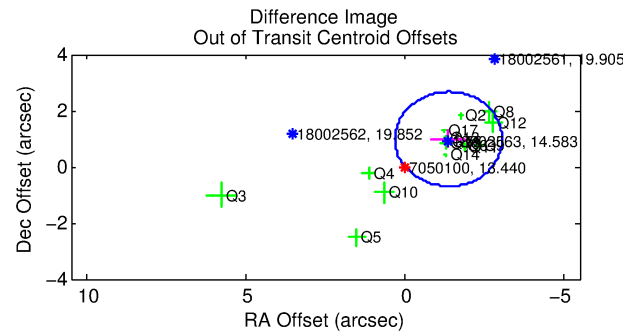
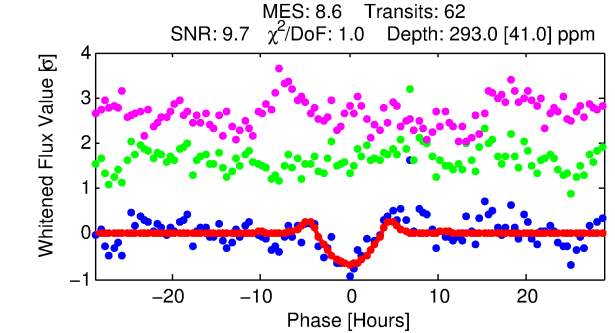
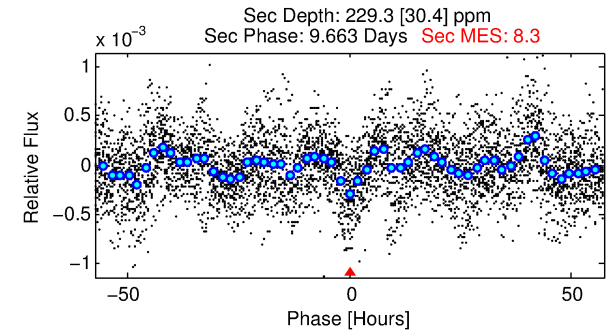
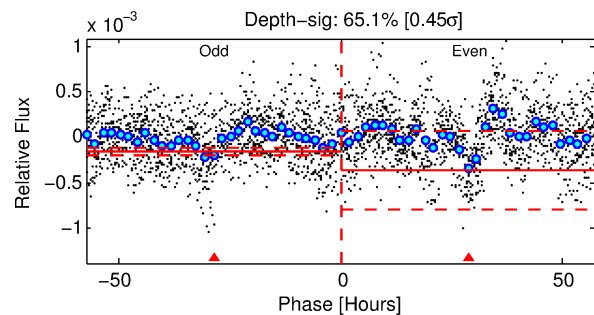
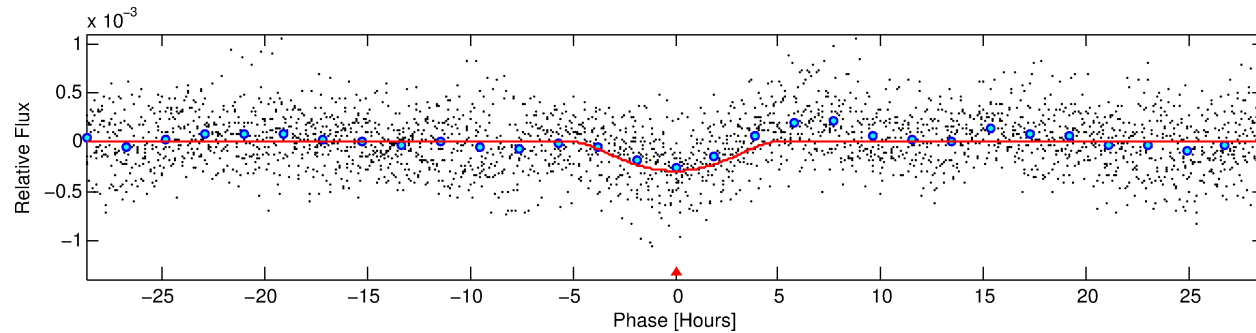
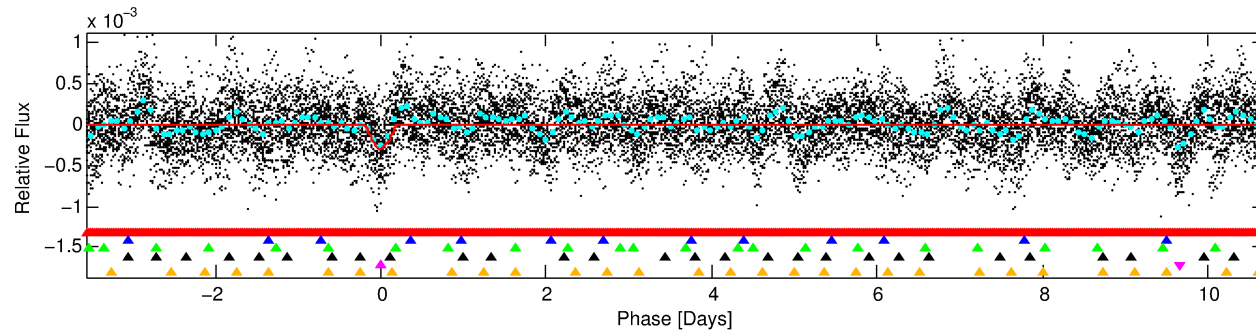
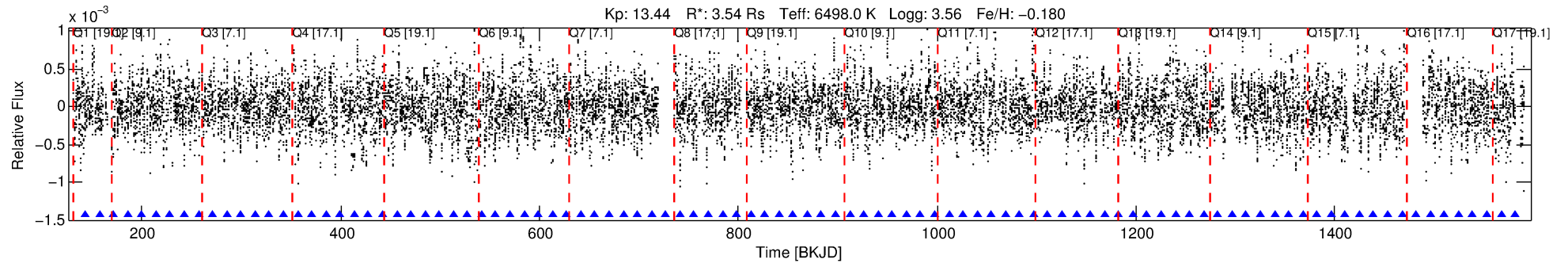
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007050100-05

No Significant Match Found

DV One-Page Summary

KIC: 7050100 Candidate: 5 of 6 Period: 14.241 d



DV Fit Results:

Period = 14.24056 [0.00029] d
Epoch = 143.2538 [0.0166] BKJD
Rp/R* = 0.0303 [0.0403]
a/R* = 3.02 [0.93]
b = 1.00 [0.06]
Seff = 1078.47 [653.99]
Teq = 1461 [222] K
Rp = 11.72 [16.26] Re
a = 0.1363 [0.0497] AU
Ag = 17.06 [46.49] [0.35 σ]
Teffp = 4592 [3067] K [1.02 σ]

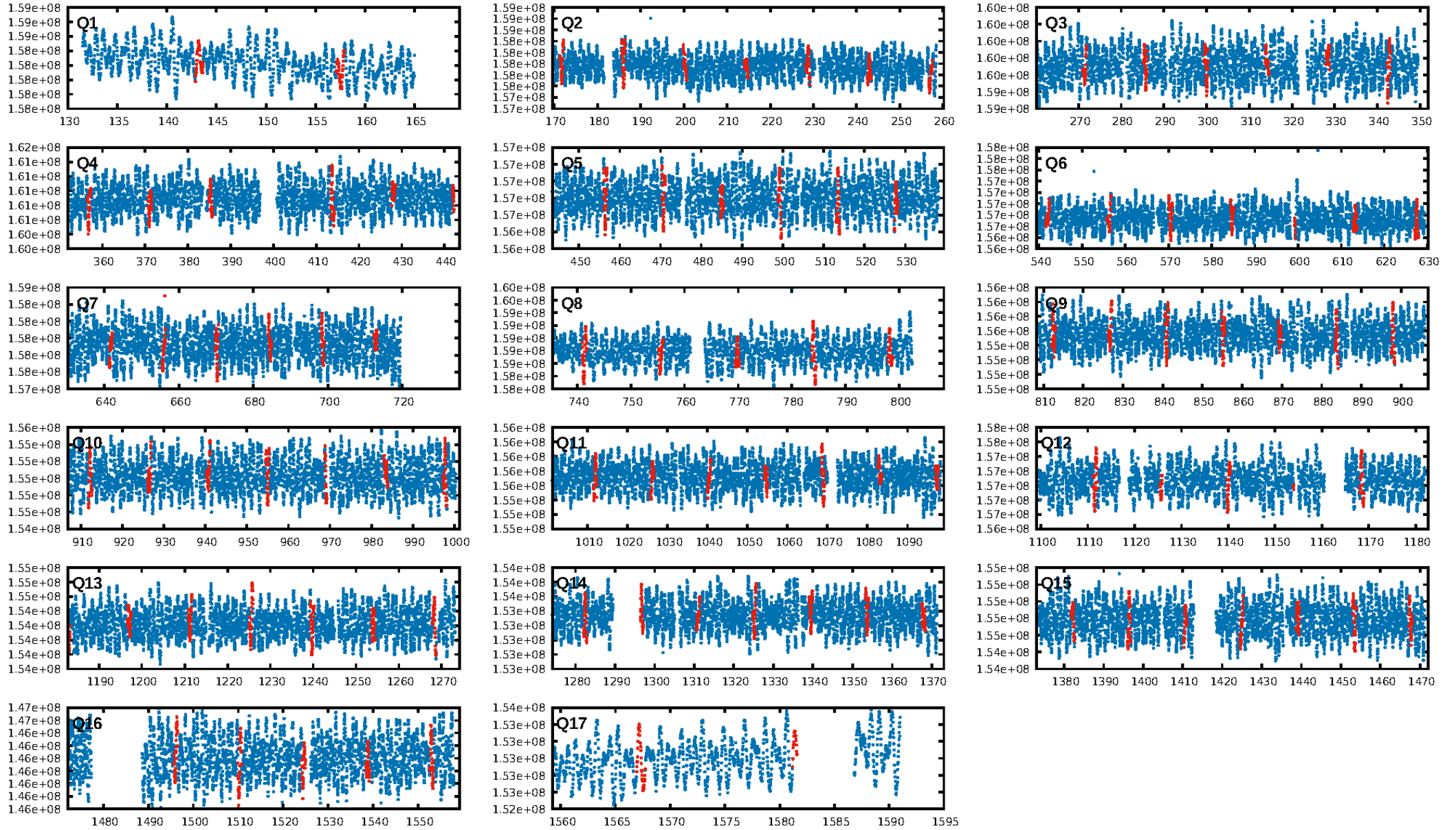
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [28.85 σ]
LongPeriod-sig: 100.0% [83.56 σ]
ModelChiSquare2-sig: 3.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [60/60]
GhostDiagnostic-chr: 11.82
Centroid-sig: 92.0%
Centroid-so: 0.192 arcsec [0.59 σ]
OotOffset-rm: 1.685 arcsec [3.00 σ]
KicOffset-rm: 1.730 arcsec [3.04 σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.56 [9/16]
DiffImageOverlap-fno: 0.00 [0/17]

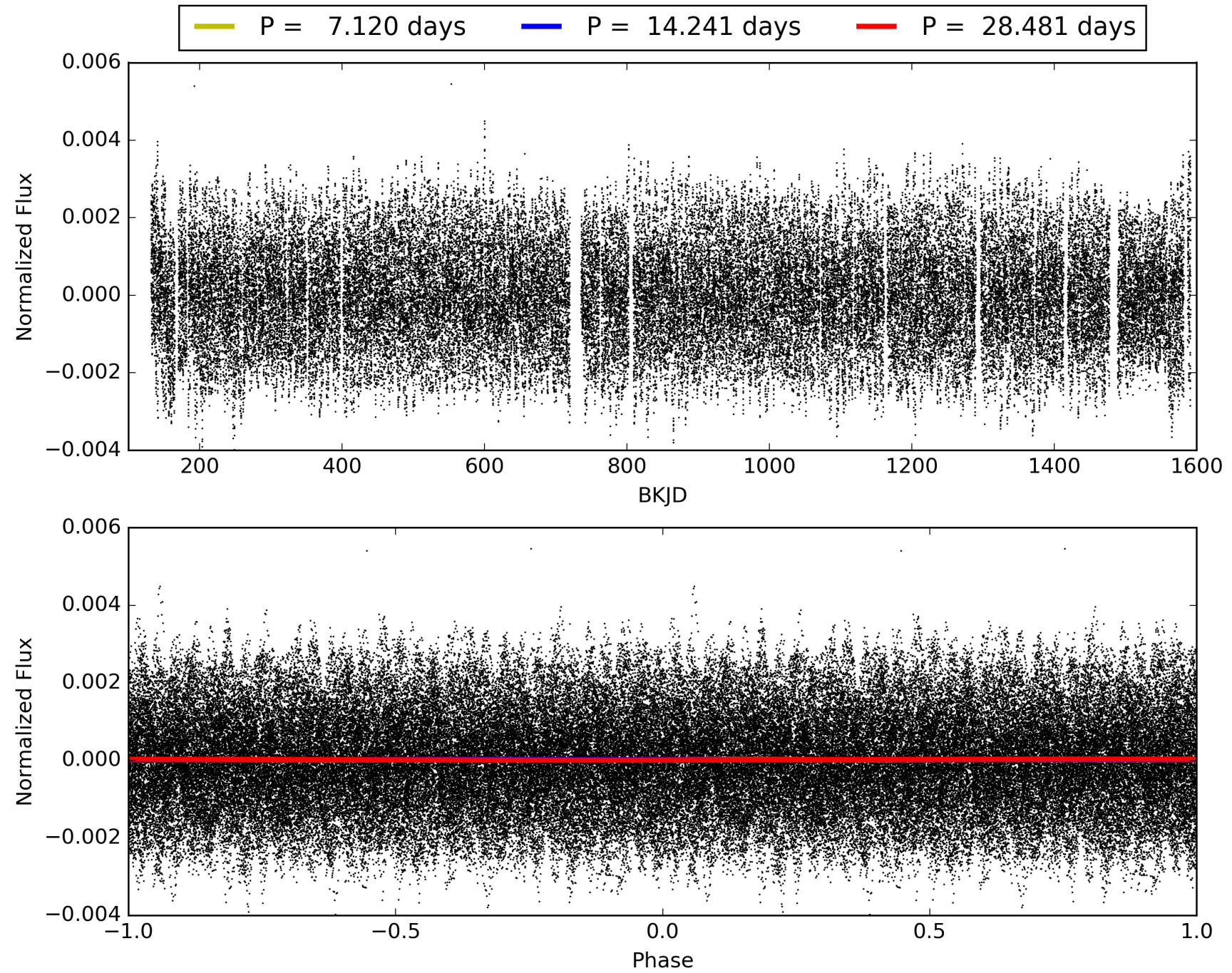
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 07:56:23 Z

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

TCE 007050100-05, PDC Light Curves

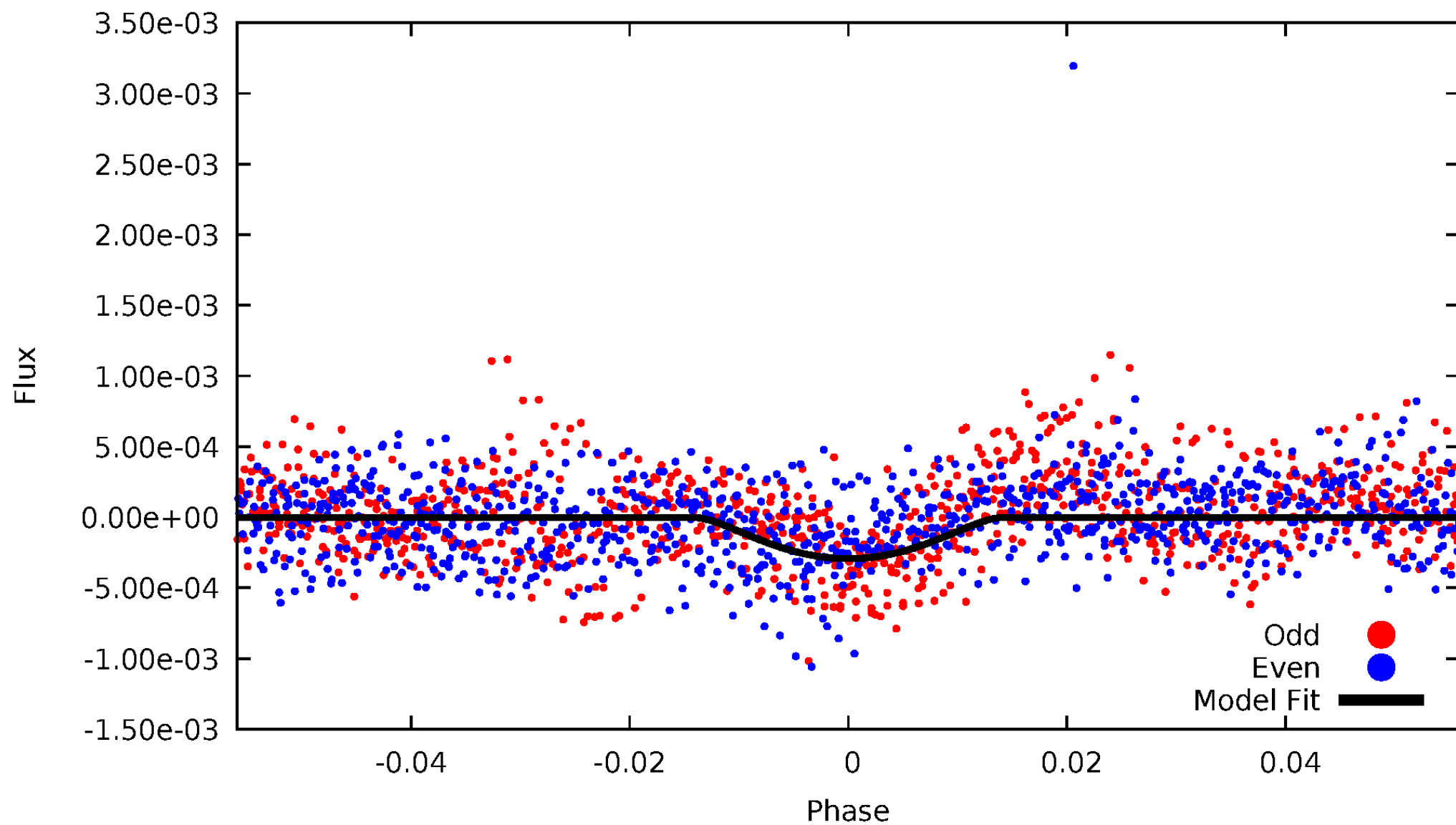


TCE 007050100-05



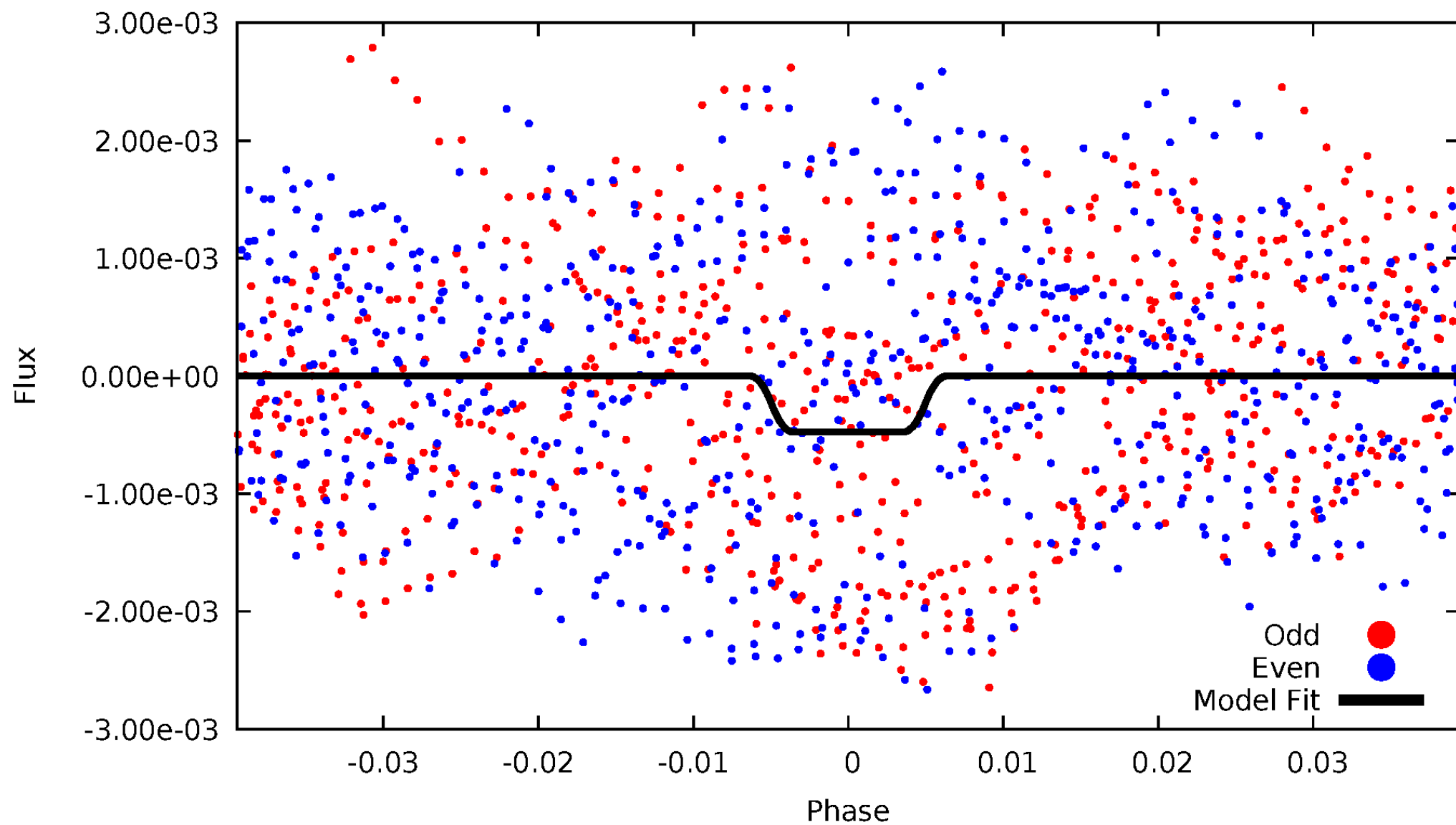
DV Odd/Even

TCE 007050100-05



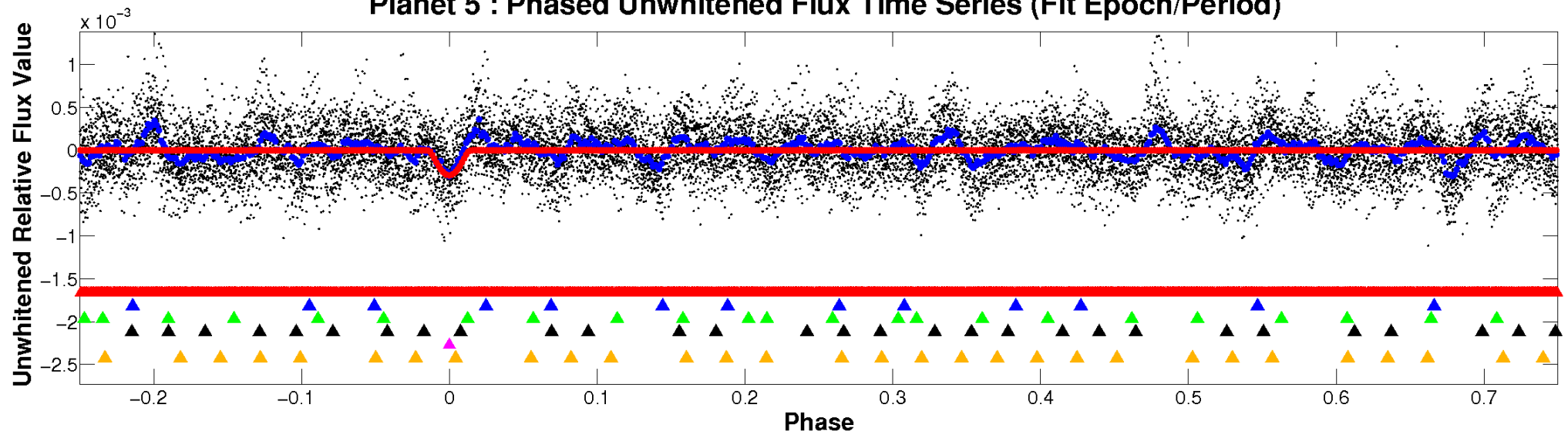
ALT Odd/Even

TCE 007050100-05

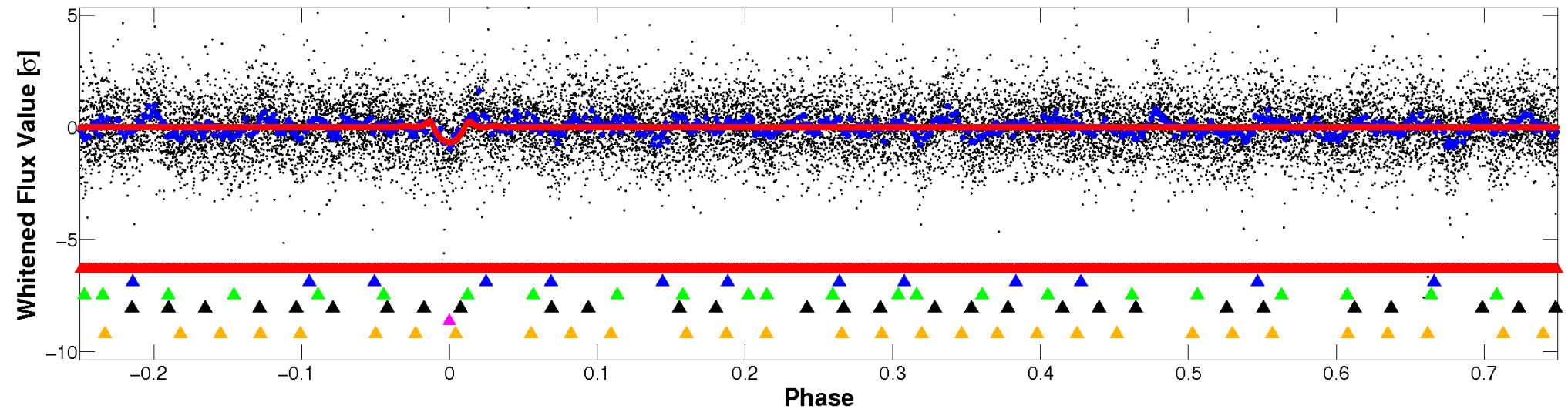


Non-Whitened Vs. Whitened Light Curve

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

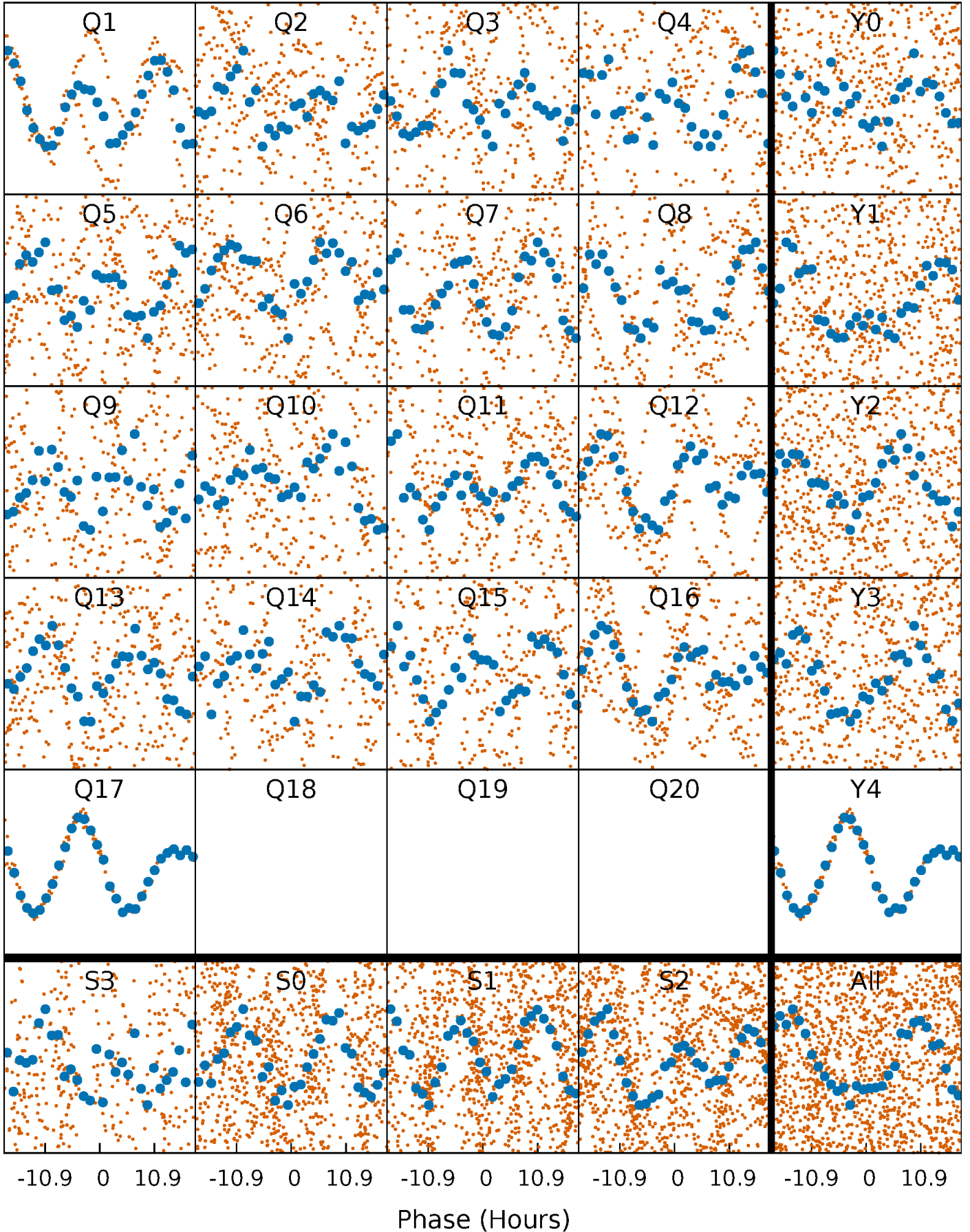


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



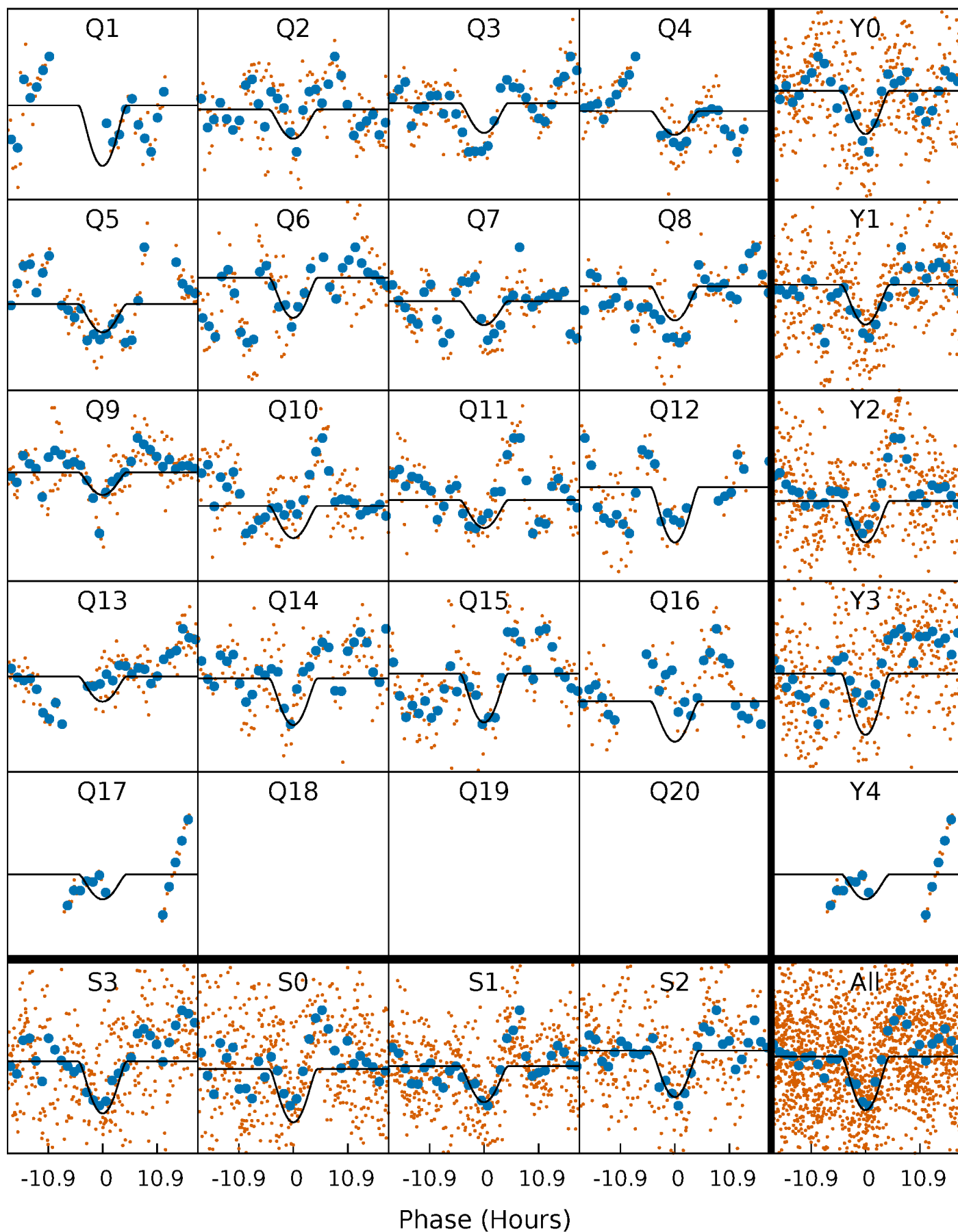
PDC Quarter-Phased Transit Curves

TCE 007050100-05 $P = 14.240562$ Days $T_0 = 143.253769$ (BKJD)



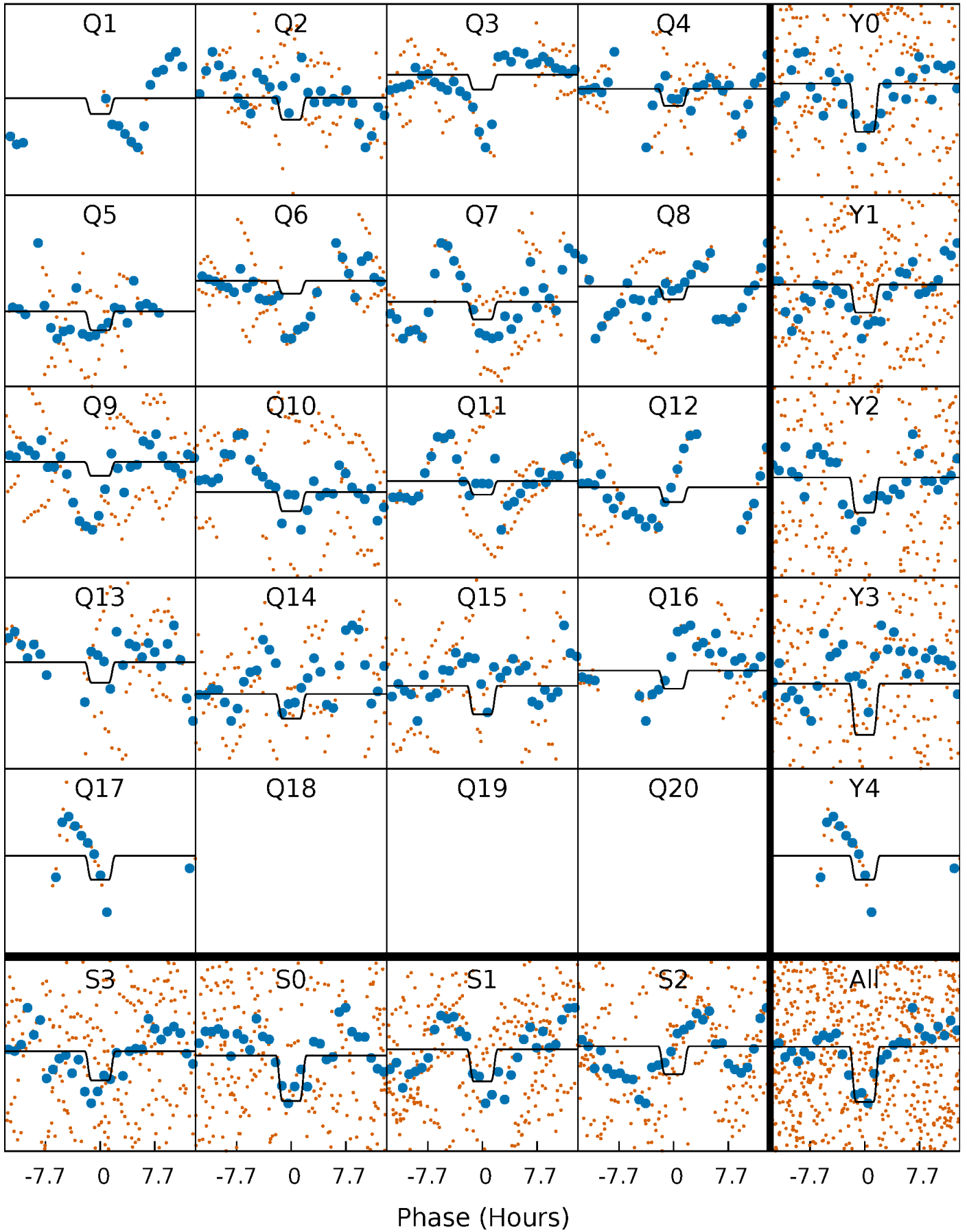
DV Quarter-Phased Transit Curves

TCE 007050100-05 P= 14.240562 Days $T_0=143.253769$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

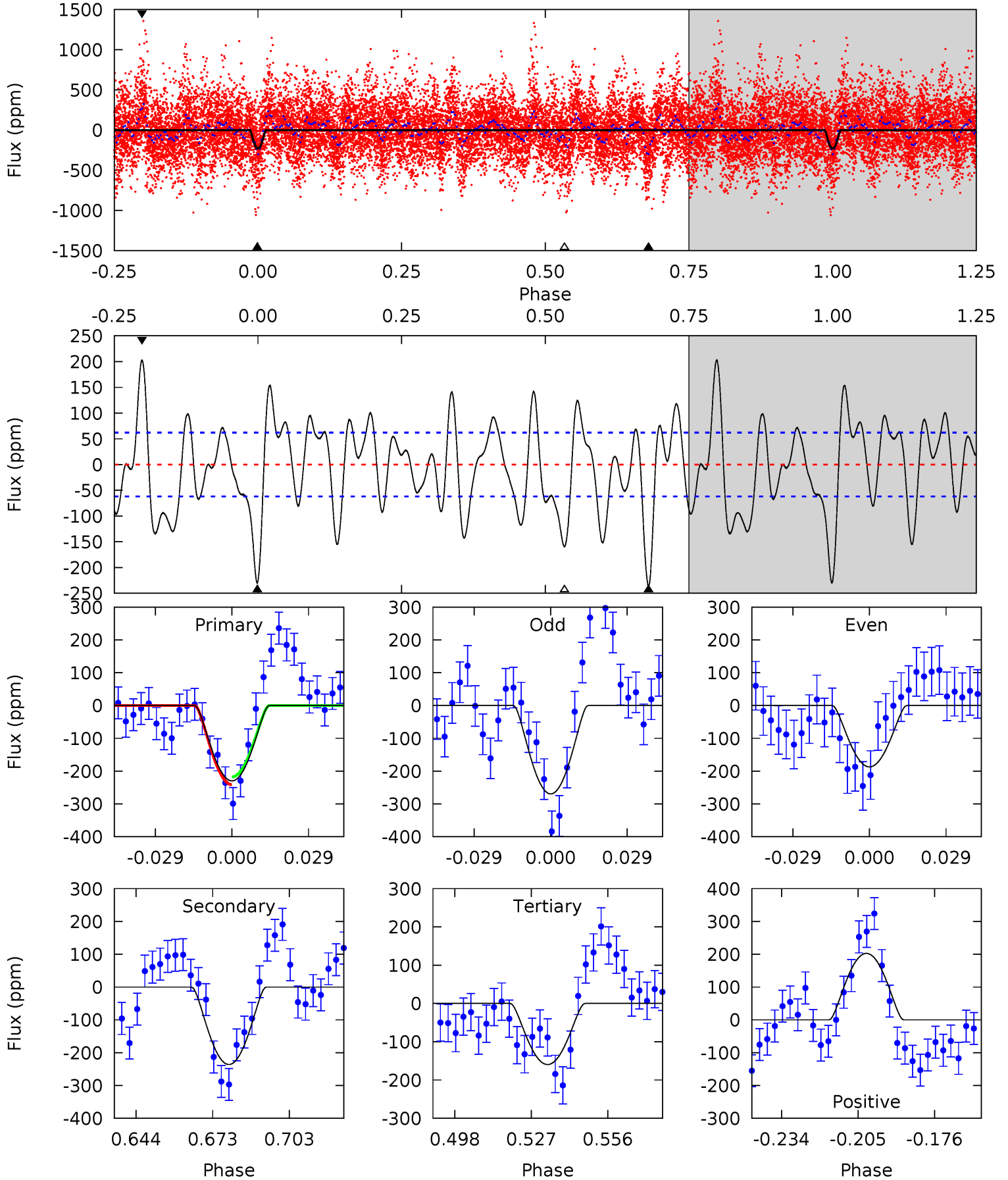
TCE 007050100-05 $P = 14.239890$ Days $T_0 = 143.279755$ (BKJD)



DV Model-Shift Uniqueness Test

007050100-05, P = 14.240562 Days, E = 129.013207 Days

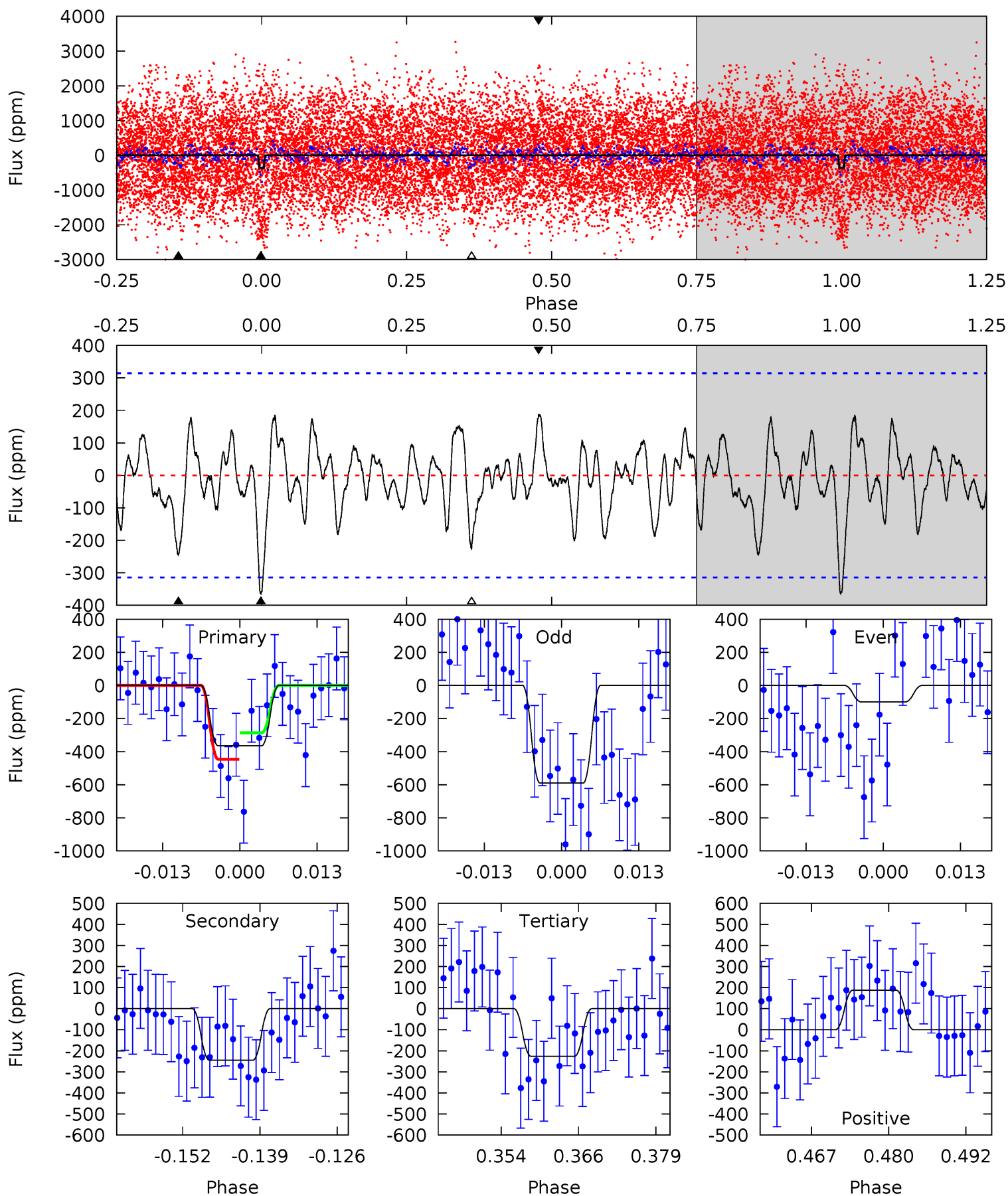
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.8	18.3	12.4	15.7	4.82	2.18	5.78	5.45	2.11	5.94	2.60	3.20	0.49	0.46	0.92



Alt Model-Shift Uniqueness Test

007050100-05, P = 14.239890 Days, E = 129.039865 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.78	3.88	3.58	2.97	4.98	2.49	1.28	2.19	2.80	0.30	0.91	3.86	2.05	0.34	1.26



Stellar Parameters For KIC 007050100

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6498^{+334}_{-334}	$3.561^{+0.330}_{-0.110}$	$-0.180^{+0.350}_{-0.250}$	$3.542^{+0.436}_{-1.394}$	$1.665^{+0.213}_{-0.396}$	$0.053^{+0.130}_{-0.014}$
	+5%/-5%	+9%/-3%	+194%/-139%	+12%/-39%	+13%/-24%	+245%/-26%
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 007050100-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-236 ± 13	$14.78^{+14.04}_{-10.36}$	2015^{+153}_{-224}	4161^{+3034}_{-819}	11^{+111}_{-8}
Alt.	-245 ± 63	$13.81^{+12.64}_{-9.09}$	1993^{+167}_{-196}	4330^{+2837}_{-905}	12^{+85}_{-9}

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

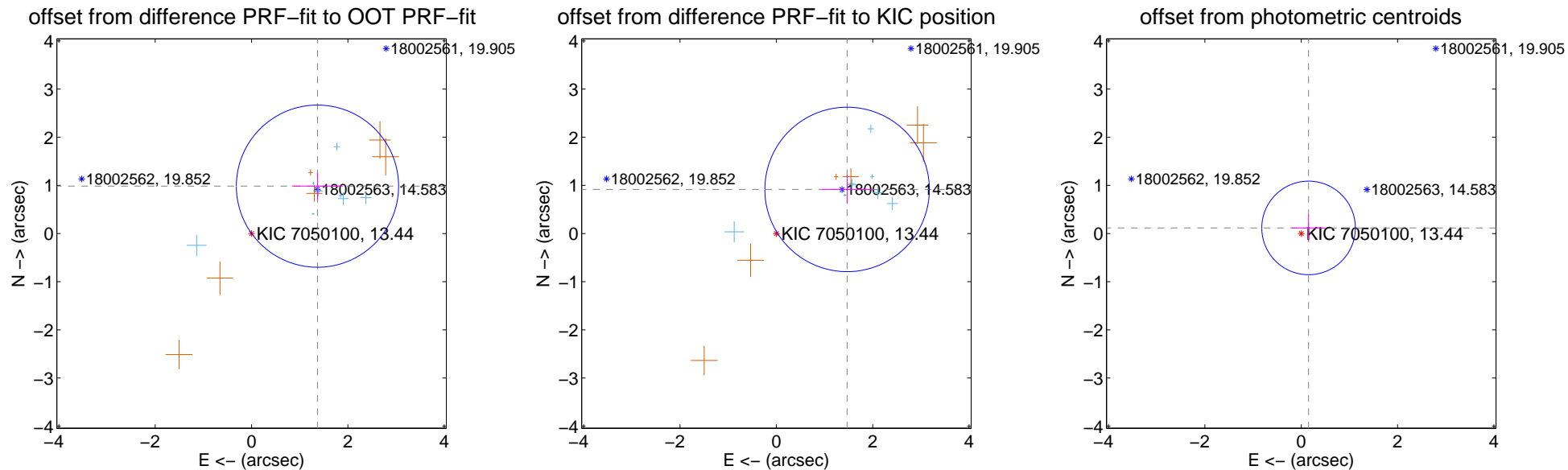
DV Centroid Data

Supplemental centroid analysis for 007050100-05. Kepler magnitude: 13.44. Transit SNR 9.67

There are 9 quarters with good PRF difference image offsets

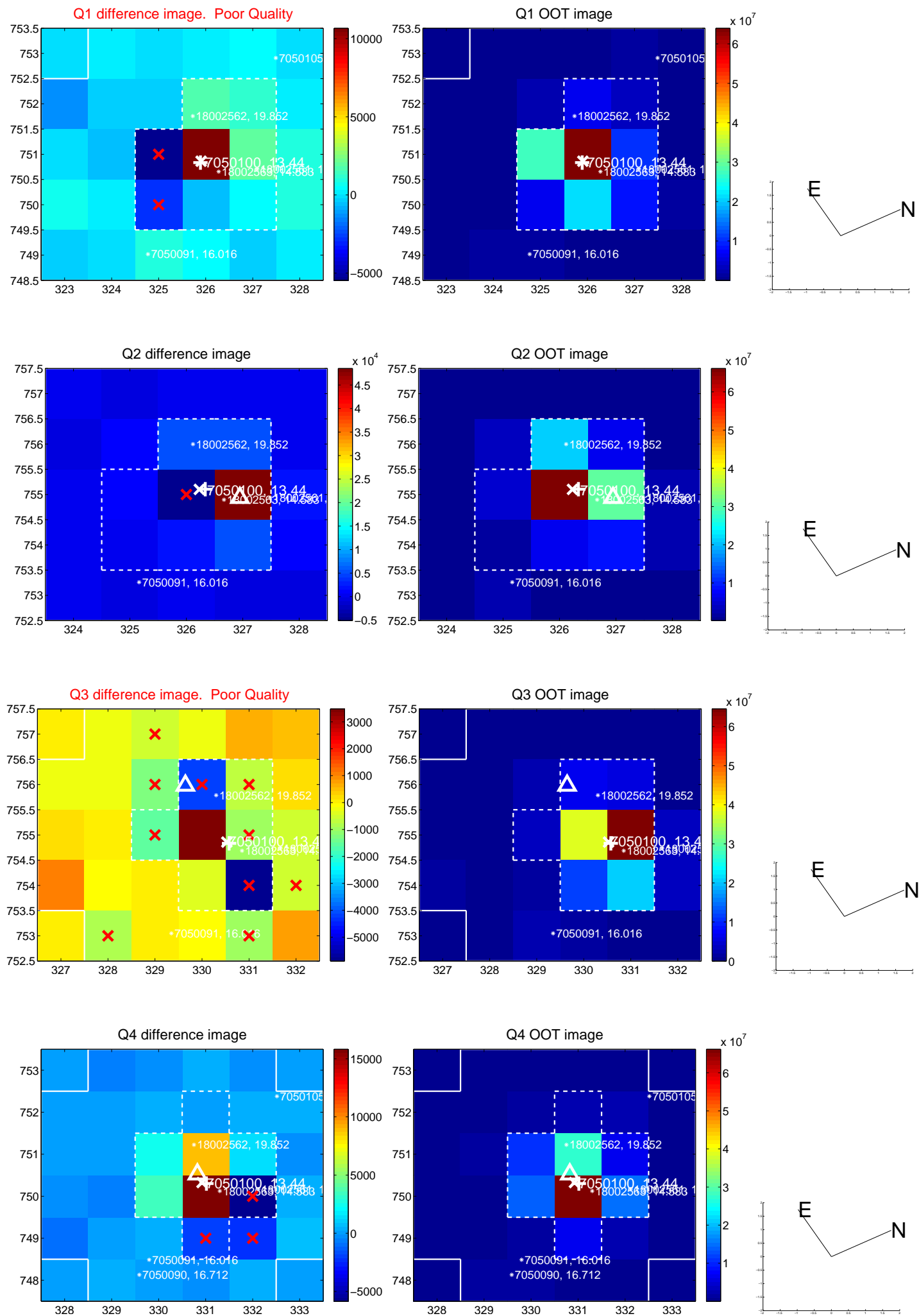
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.685 ± 0.561	3.00	-1.369 ± 0.528	0.984 ± 0.286
PRF-fit source offset from KIC position	1.730 ± 0.569	3.04	-1.468 ± 0.524	0.915 ± 0.299
photometric centroid source offset	0.19 ± 0.32	0.59	-0.15 ± 0.35	0.12 ± 0.28

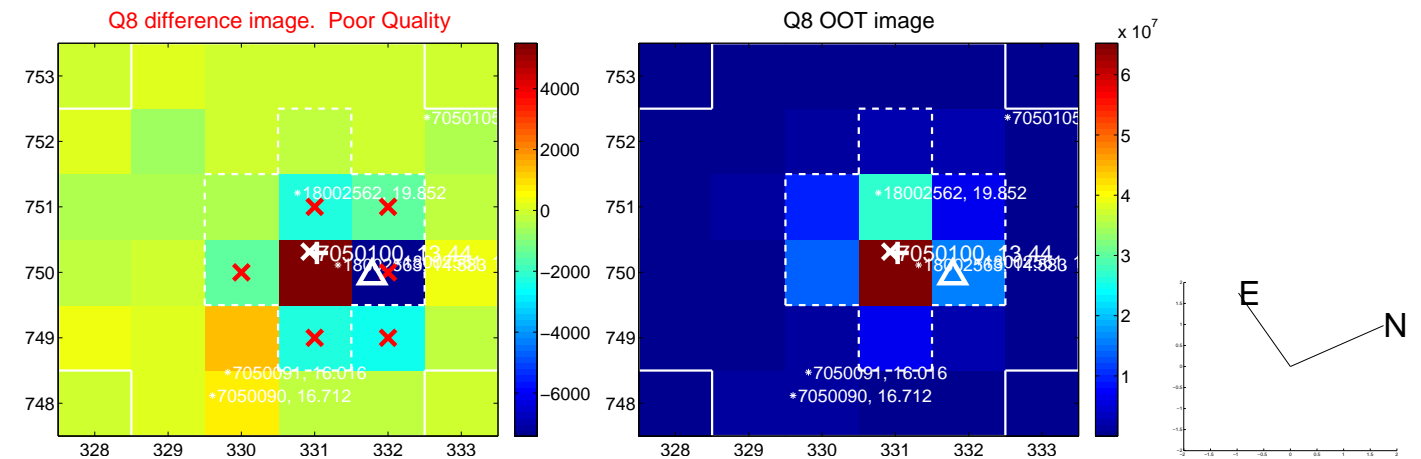
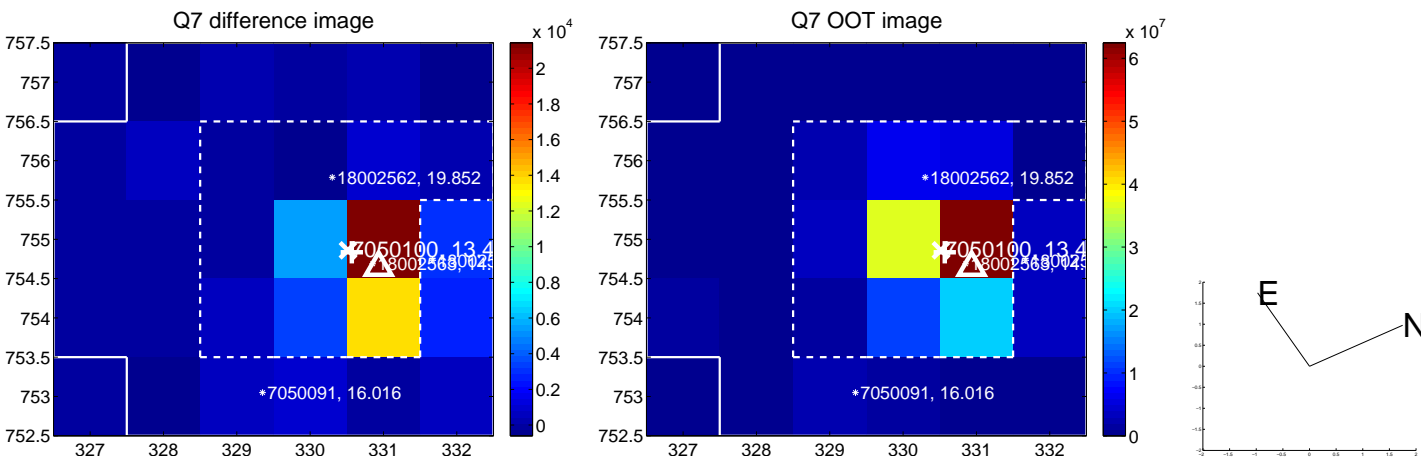
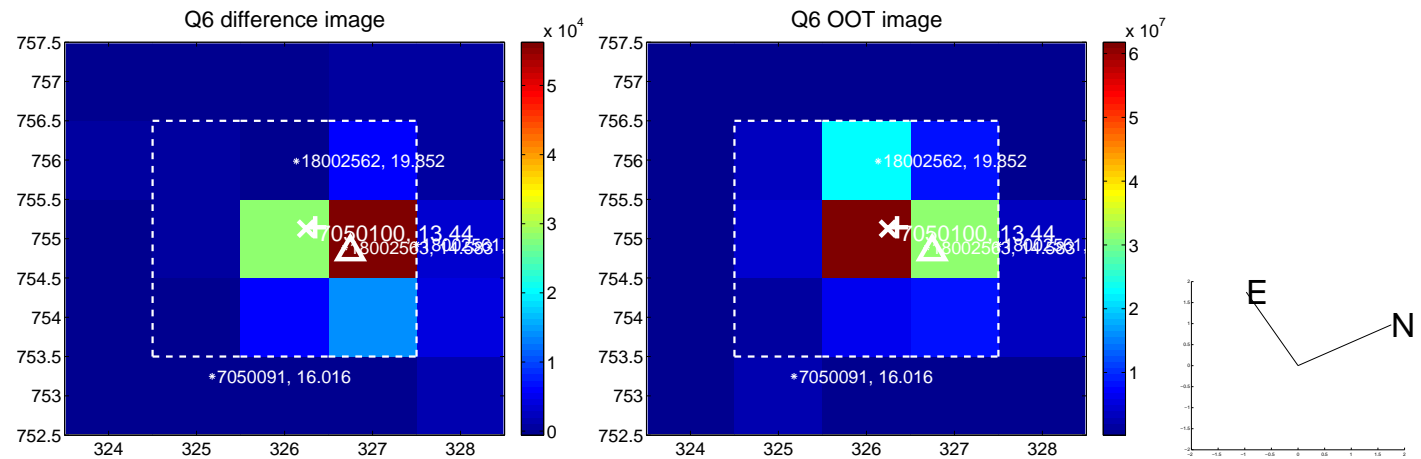
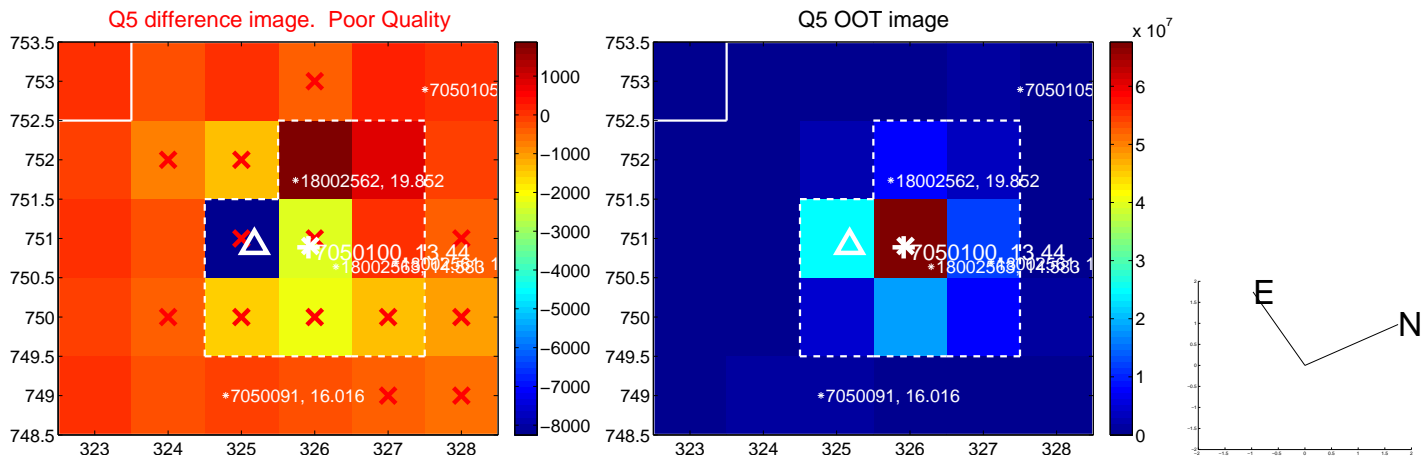


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

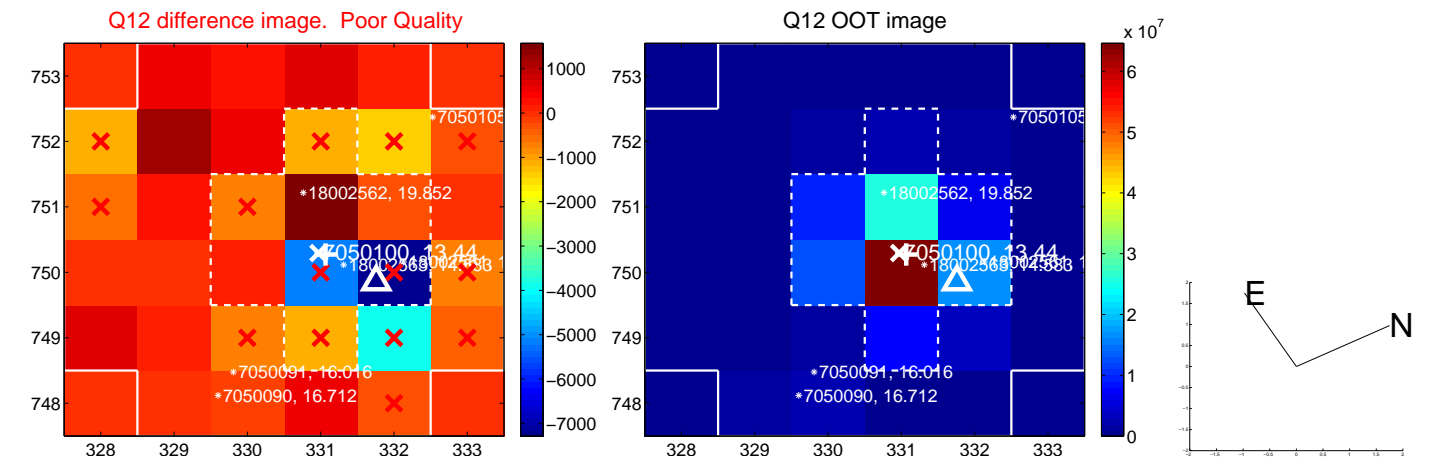
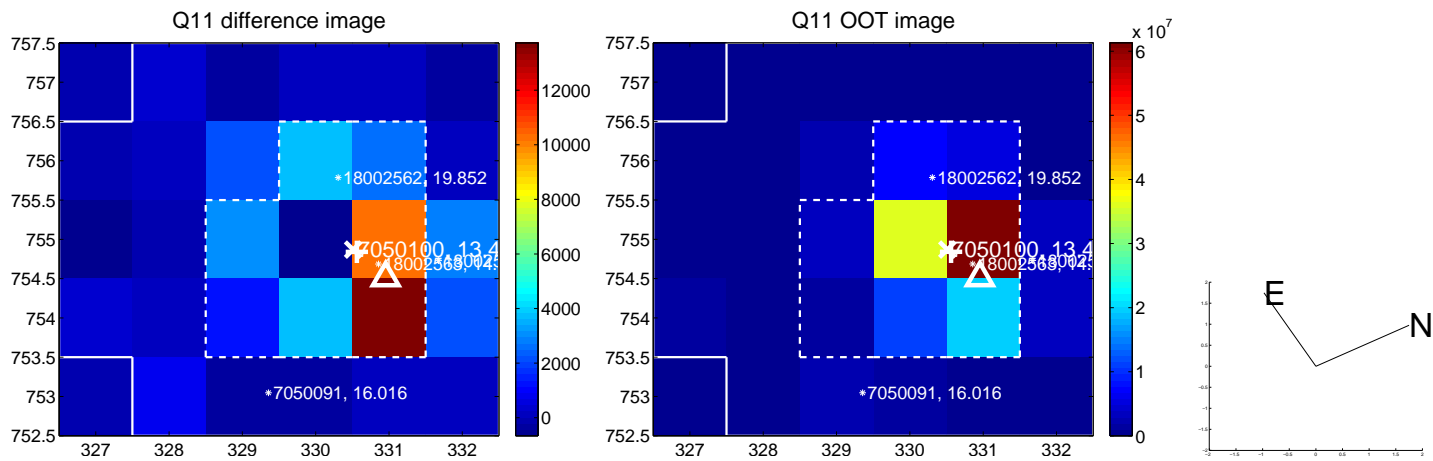
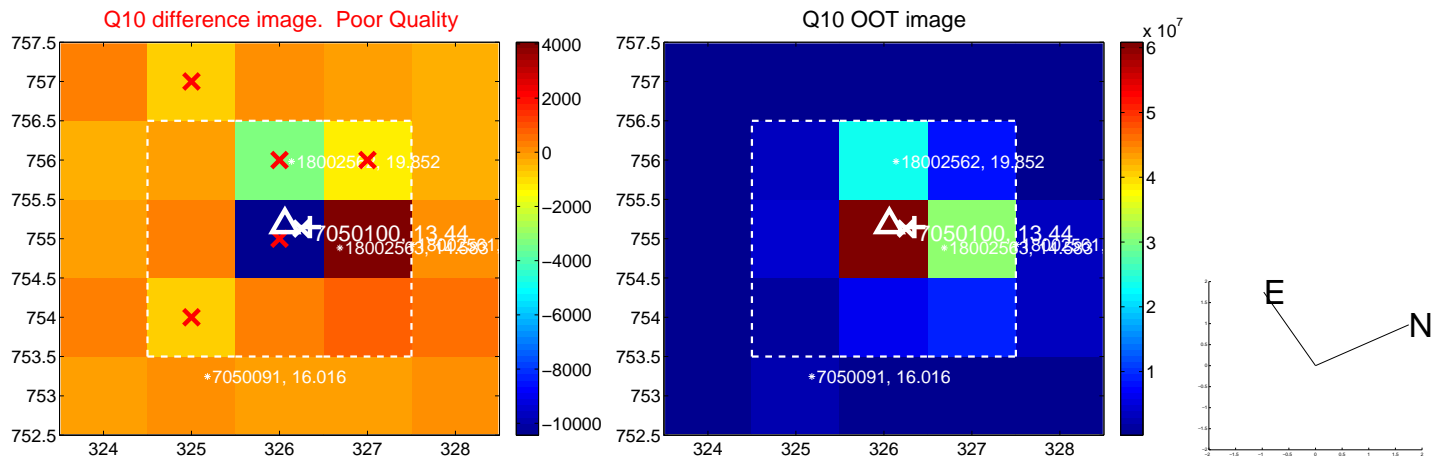
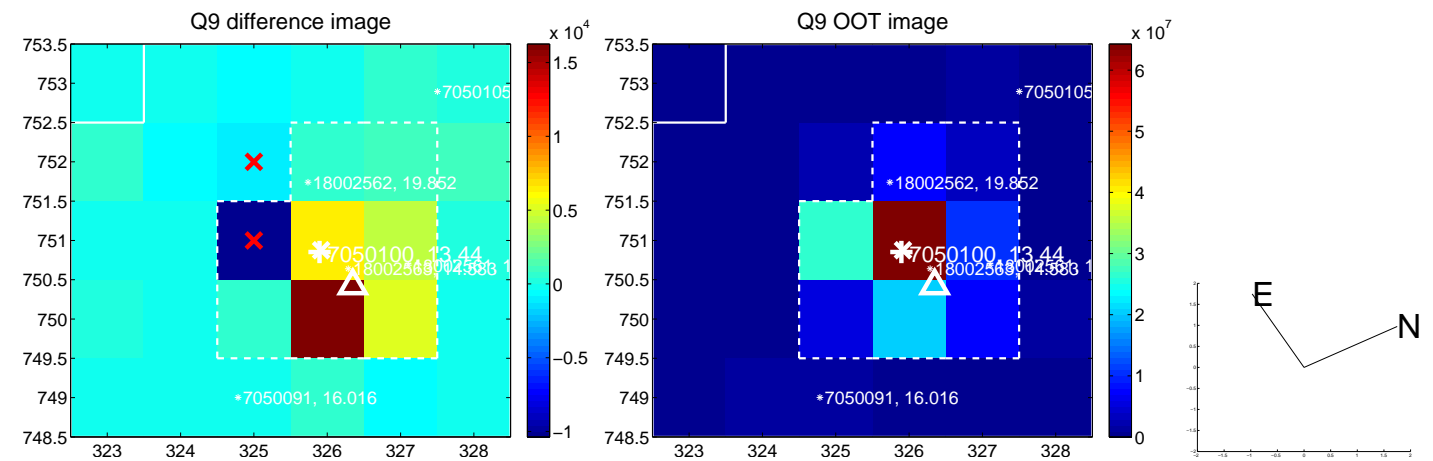
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



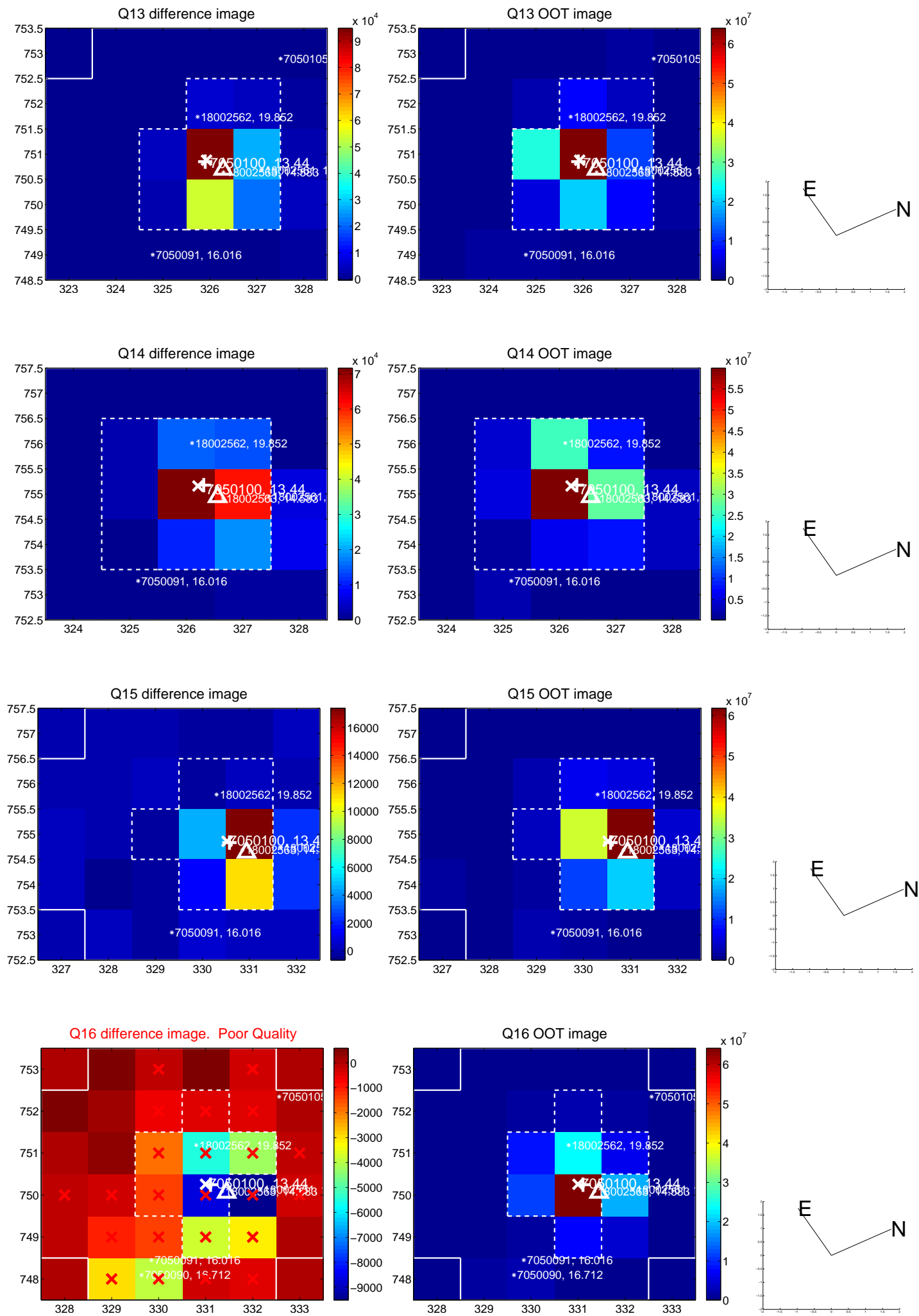
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



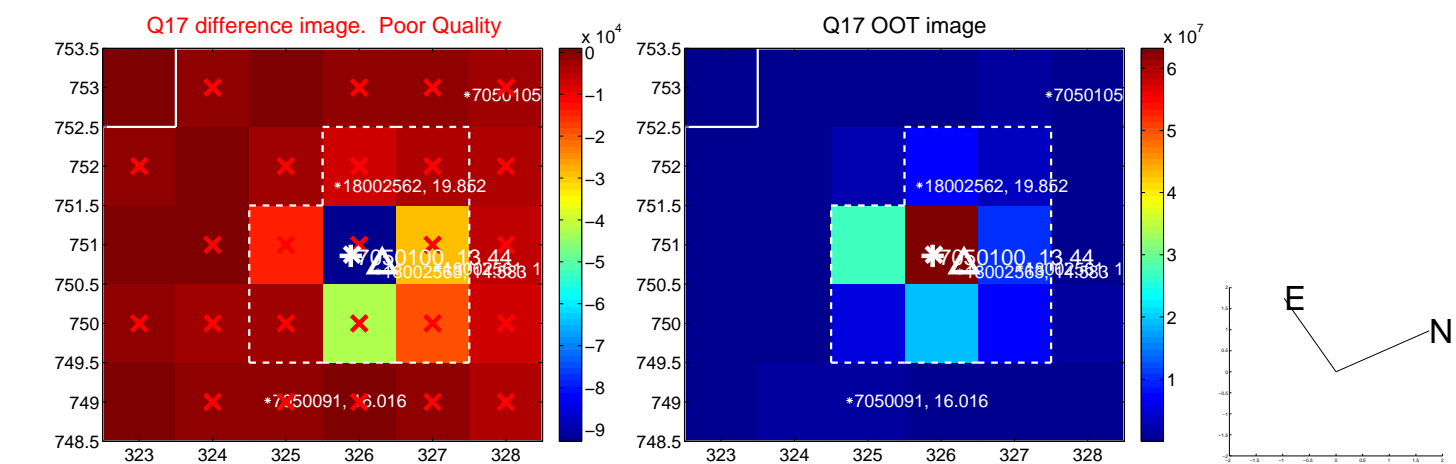
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



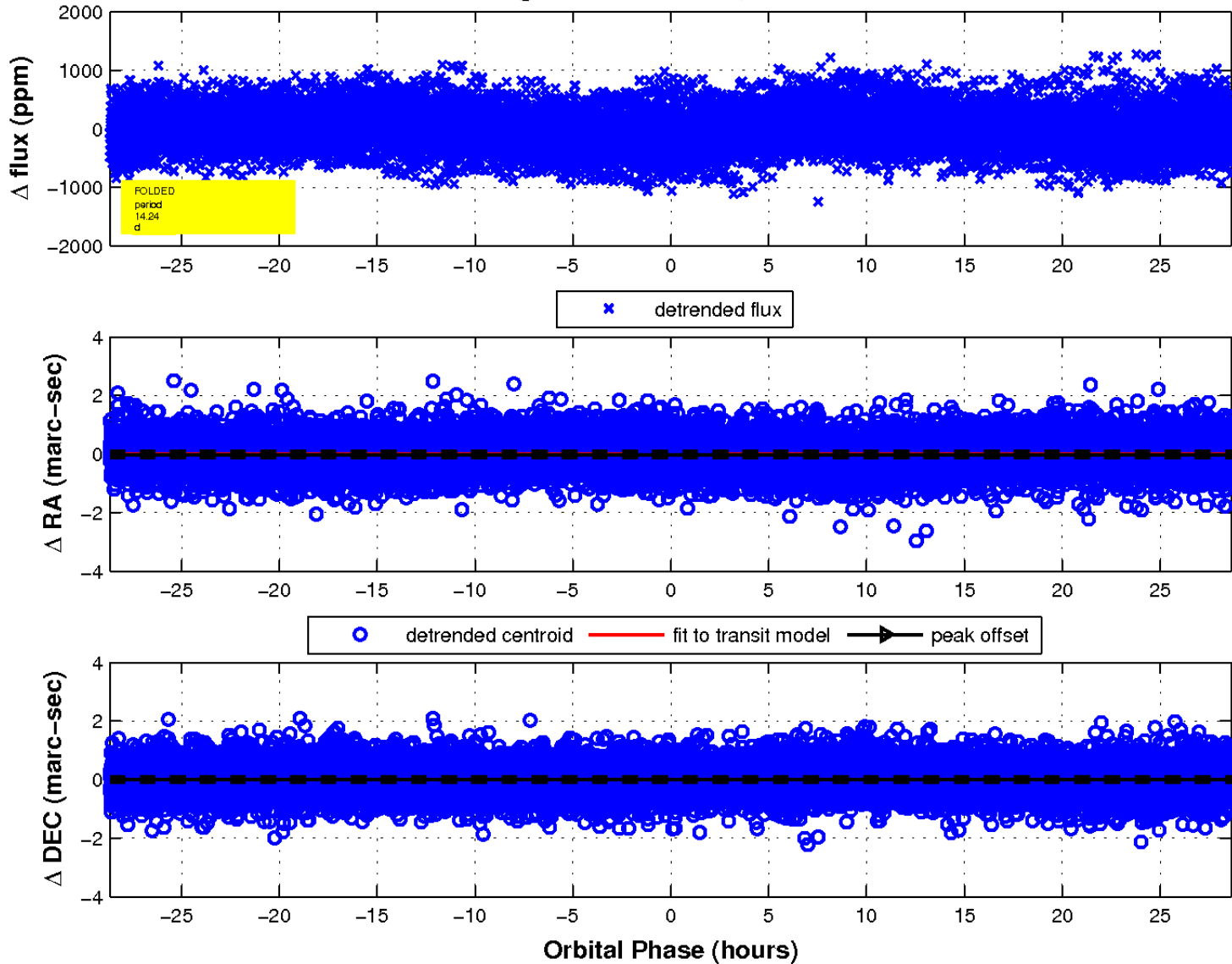
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 5 of 6



UKIRT Image

Declination

