

# KIC 006065699

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
006065699-01	OBS	No	1.329134	132.814552	8.6	4.657	17.6	9.5	2.86	11063	0.96	94674.84
006065699-02	OBS	No	1.993593	132.910575	10.0	4.223	17.7	5.3	2.86	11063	1.03	55141.35
006065699-03	OBS	No	1.329093	131.925777	29.4	3.000	12.7	-1.0	2.86	11063	1.60	94678.71
006065699-04	OBS	No	194.280928	178.645688	393.7	23.467	12.3	13.1	2.86	11063	6.64	122.96
006065699-05	OBS	No	1.993660	131.612942	22.3	5.898	11.8	11.2	2.86	11063	1.45	55138.90

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006065699-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006065699-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE_ZUMA_TRACKER—TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_SATURATED
006065699-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
006065699-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
006065699-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED

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

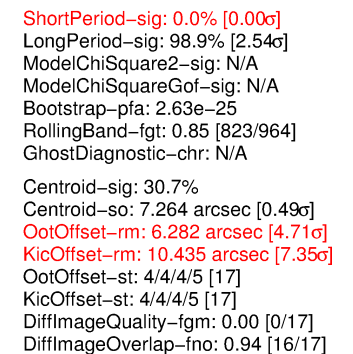
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

See [http://exoplanetarchive.ipac.caltech.edu/docs/API\\_kepcandidate\\_columns.html#proj\\_disp\\_col](http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col) for comment definitions.

## Ephemeris Match Information For 006065699-01

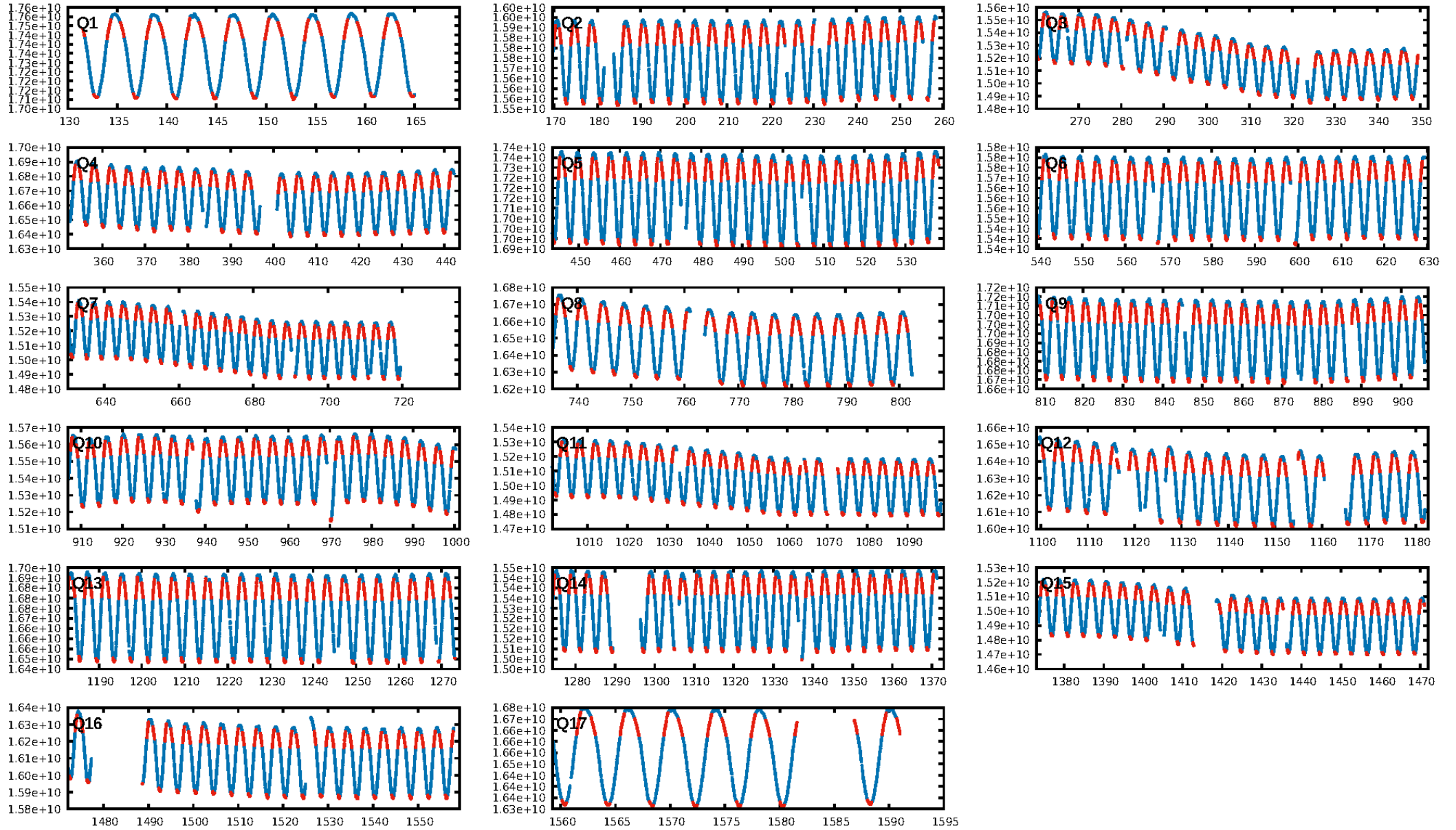
No Significant Match Found

## KIC: 6065699    Candidate: 1 of 5    Period: 1.329 d

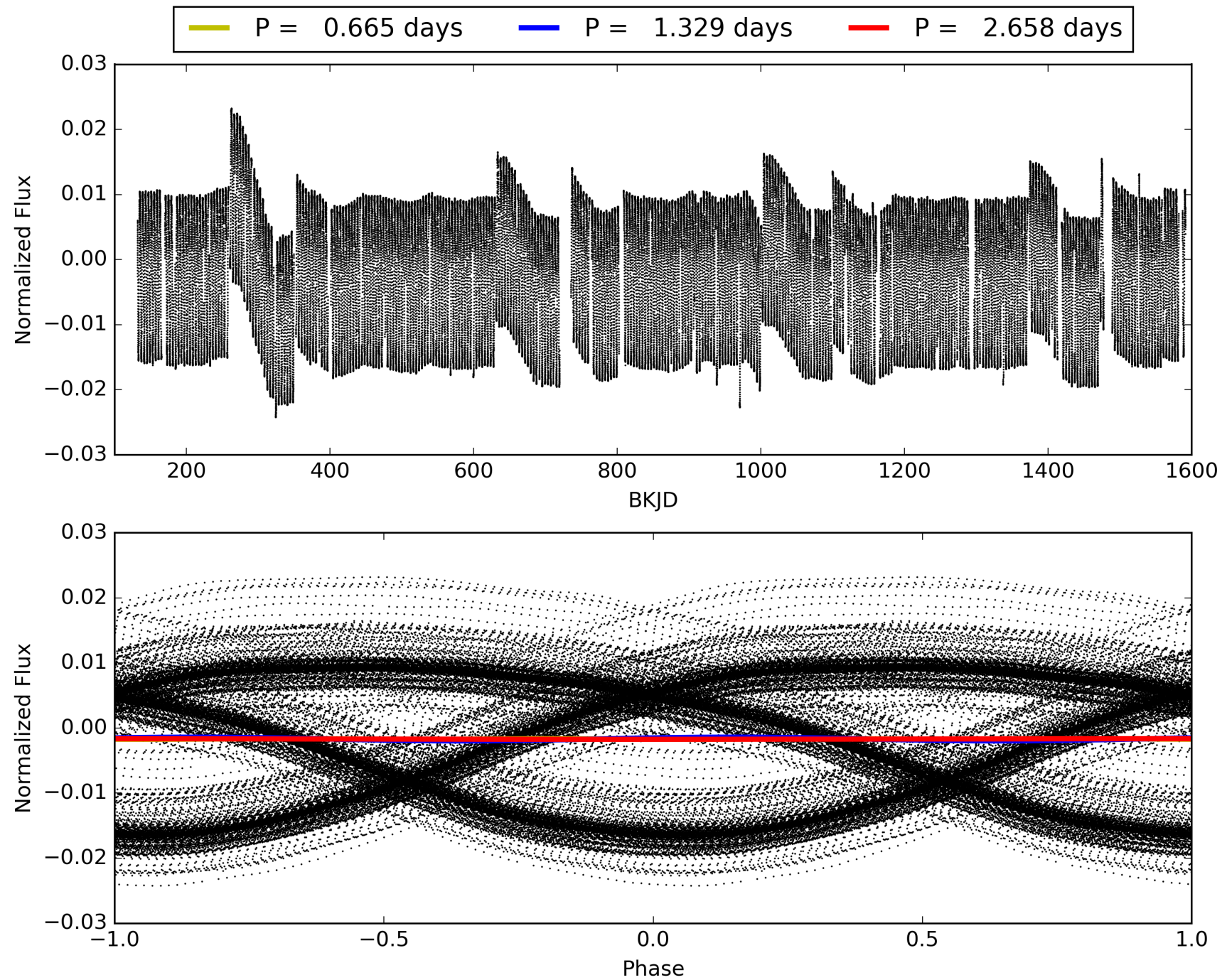


**This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center**

# TCE 006065699-01, PDC Light Curves



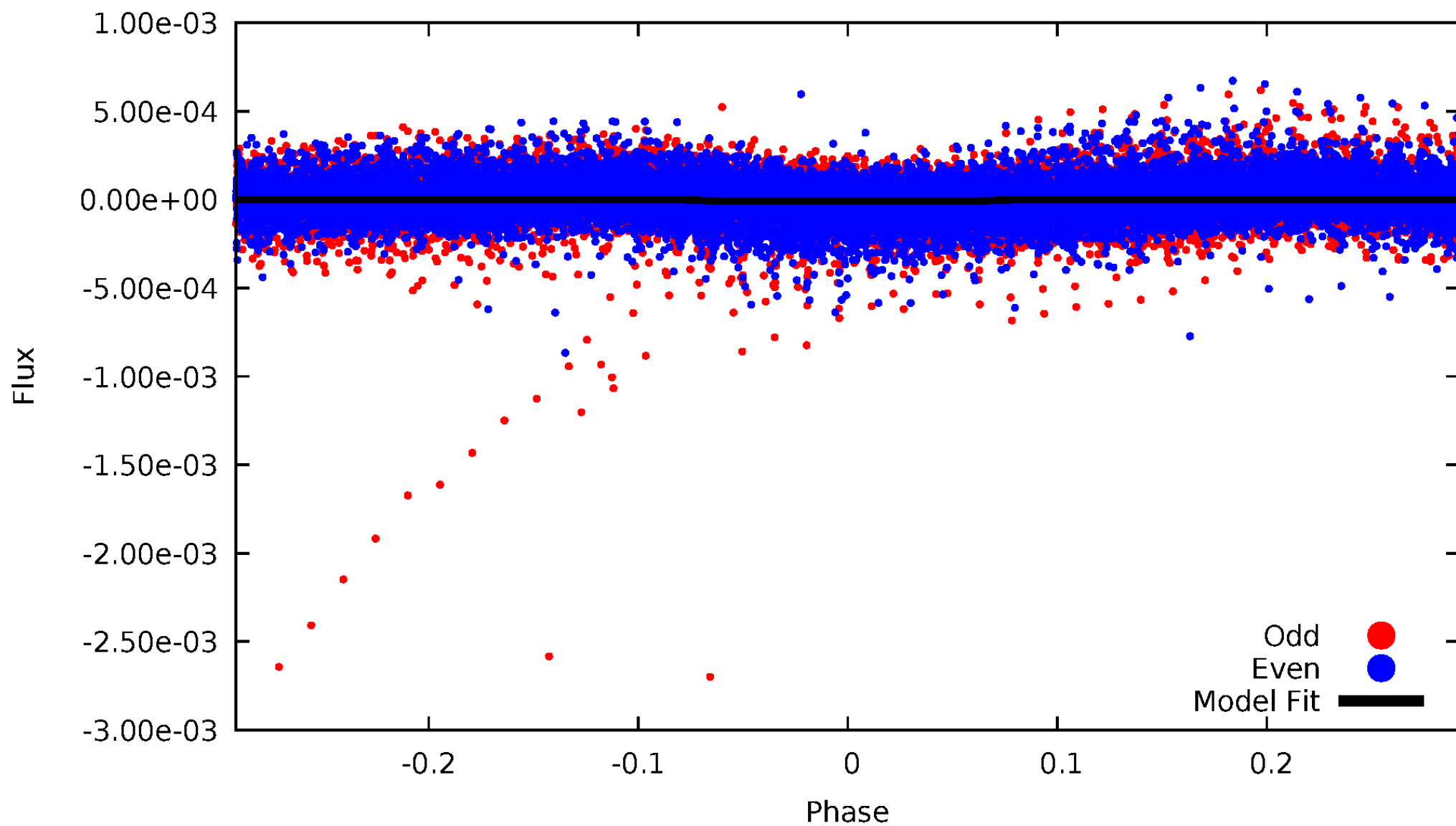
TCE 006065699-01





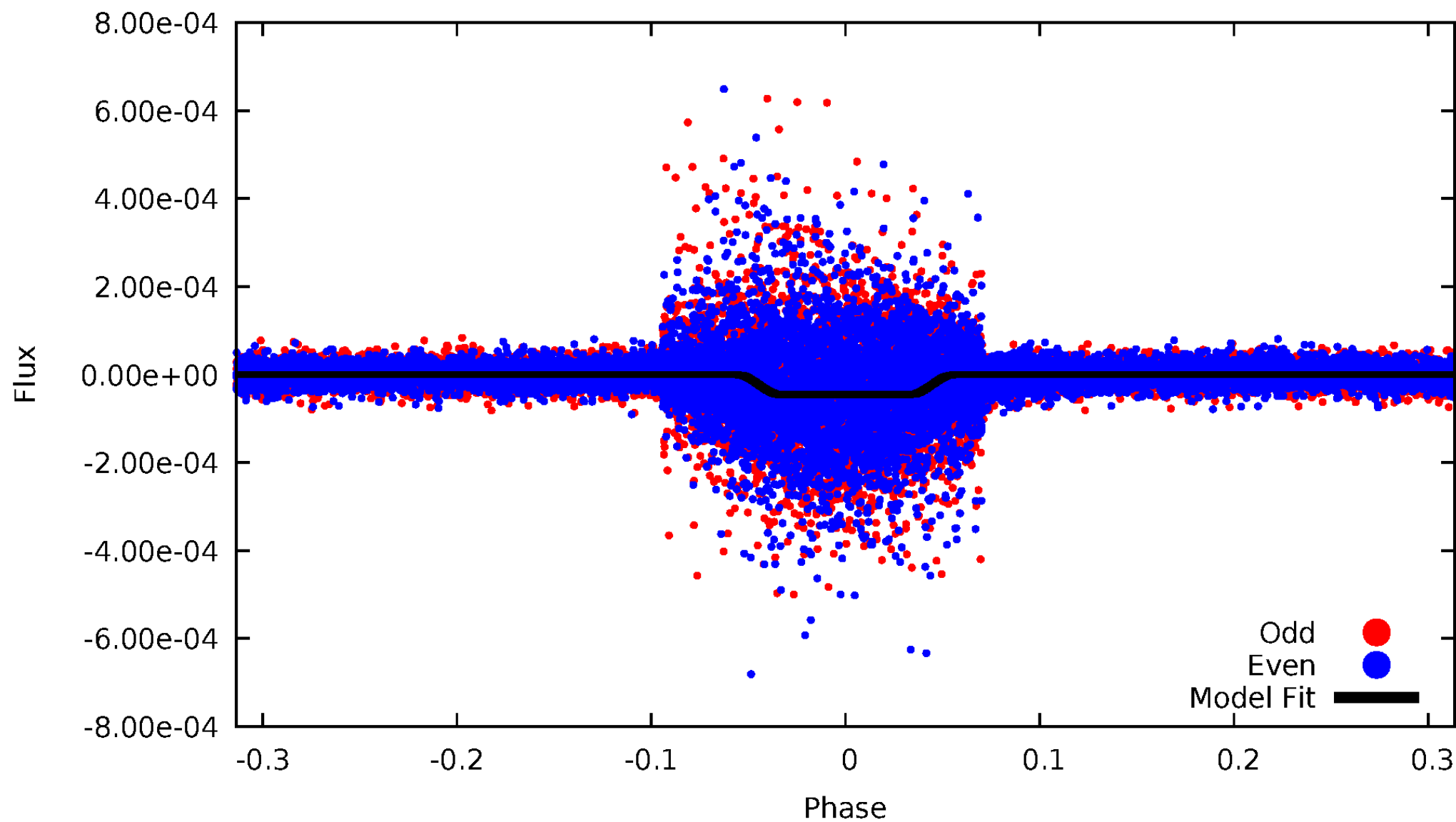
# DV Odd/Even

TCE 006065699-01

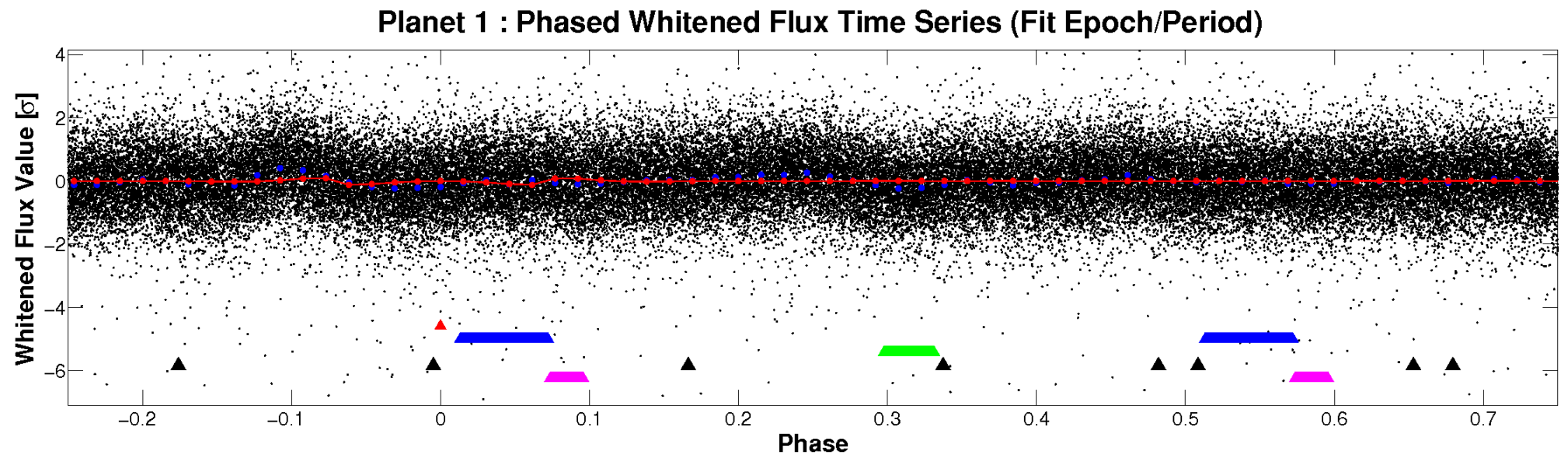
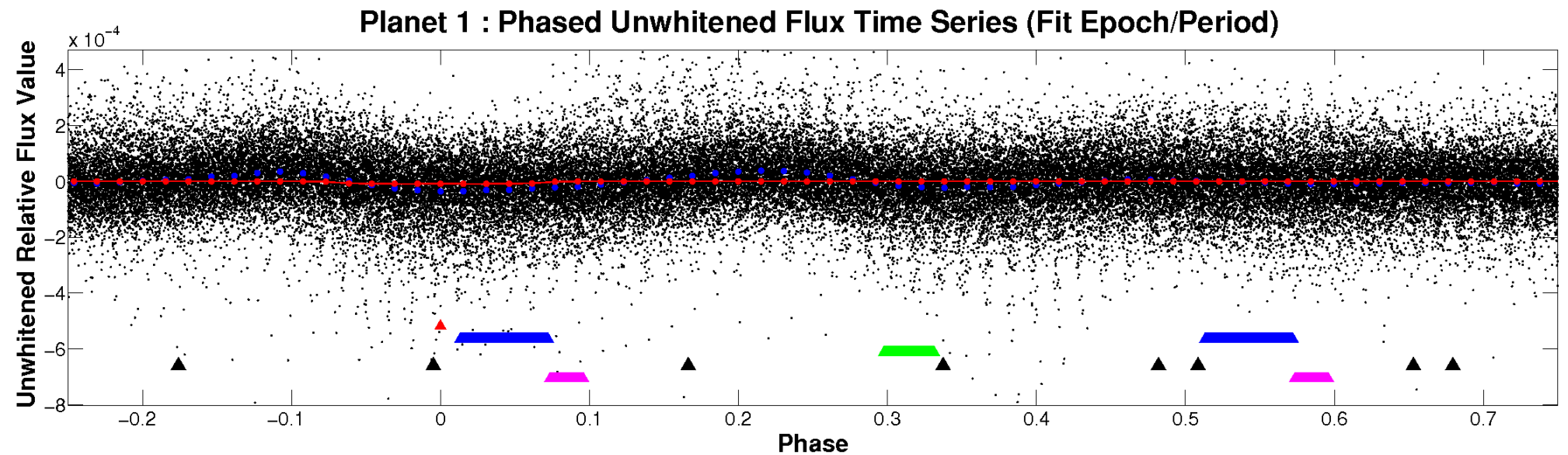


# ALT Odd/Even

TCE 006065699-01

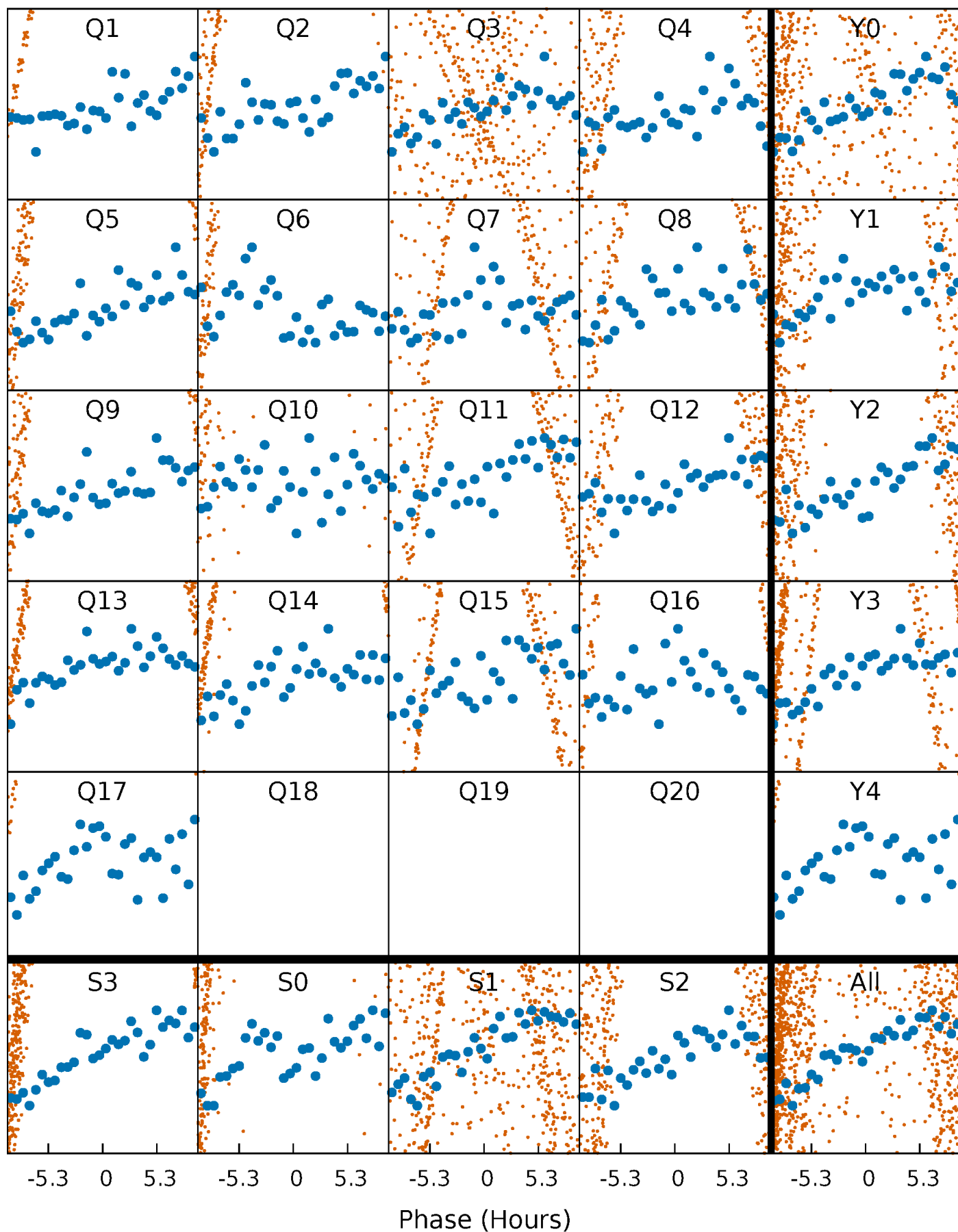


# Non-Whitened Vs. Whitened Light Curve



# PDC Quarter-Phased Transit Curves

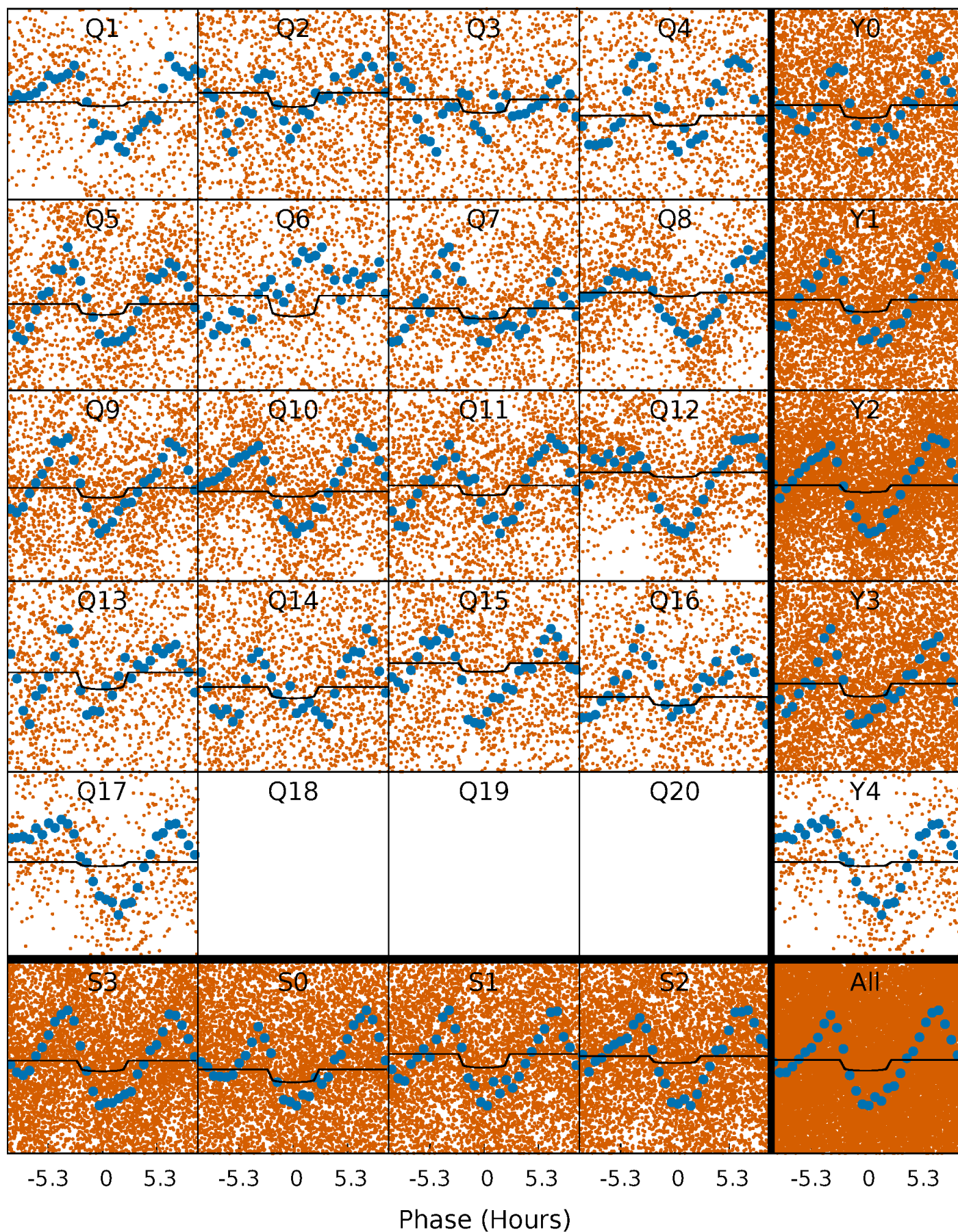
TCE 006065699-01 P= 1.329134 Days  $T_0=132.814552$  (BKJD)





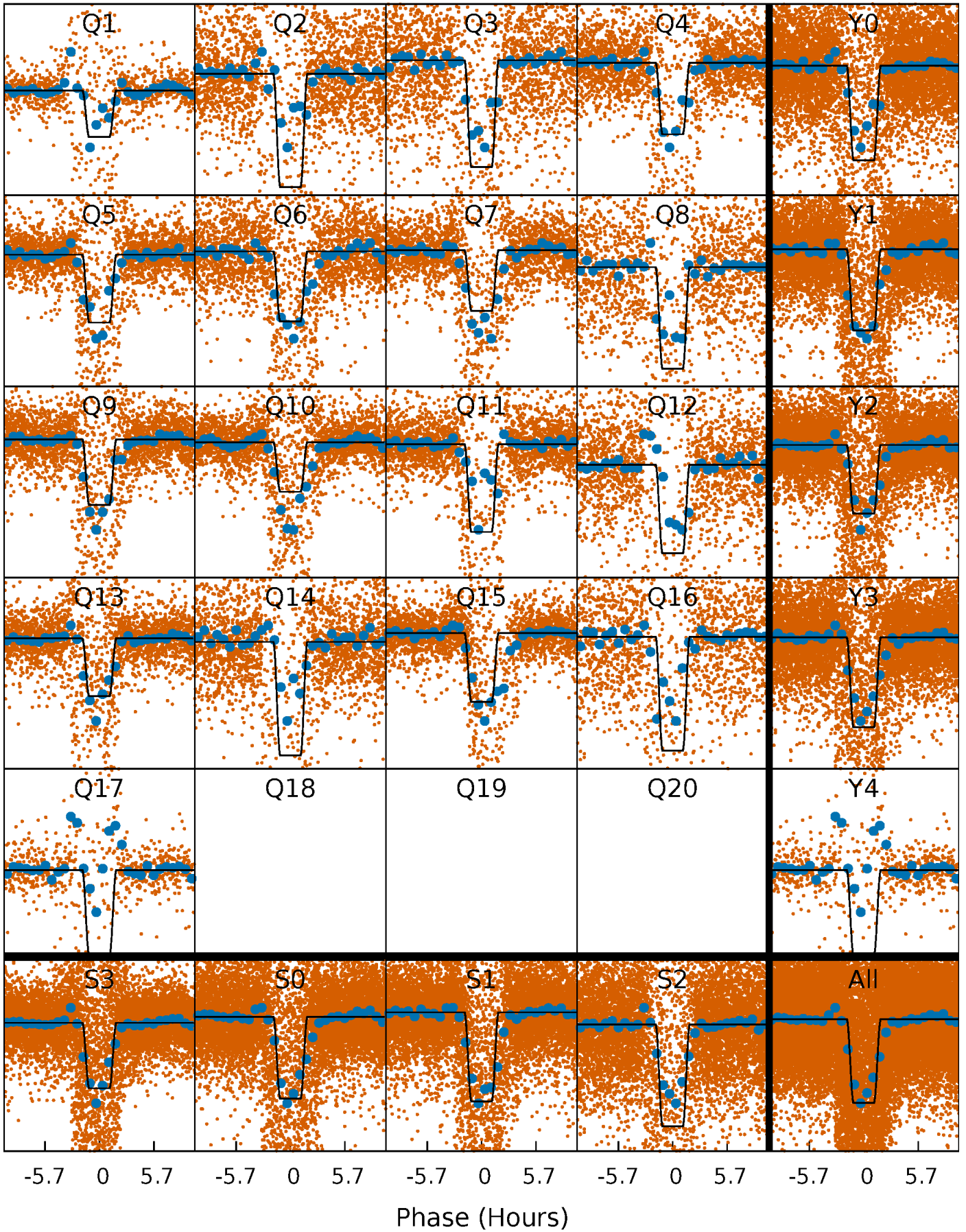
# DV Quarter-Phased Transit Curves

TCE 006065699-01 P= 1.329134 Days  $T_0=132.814552$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

TCE 006065699-01   P= 1.329097 Days    $T_0=132.815055$  (BKJD)

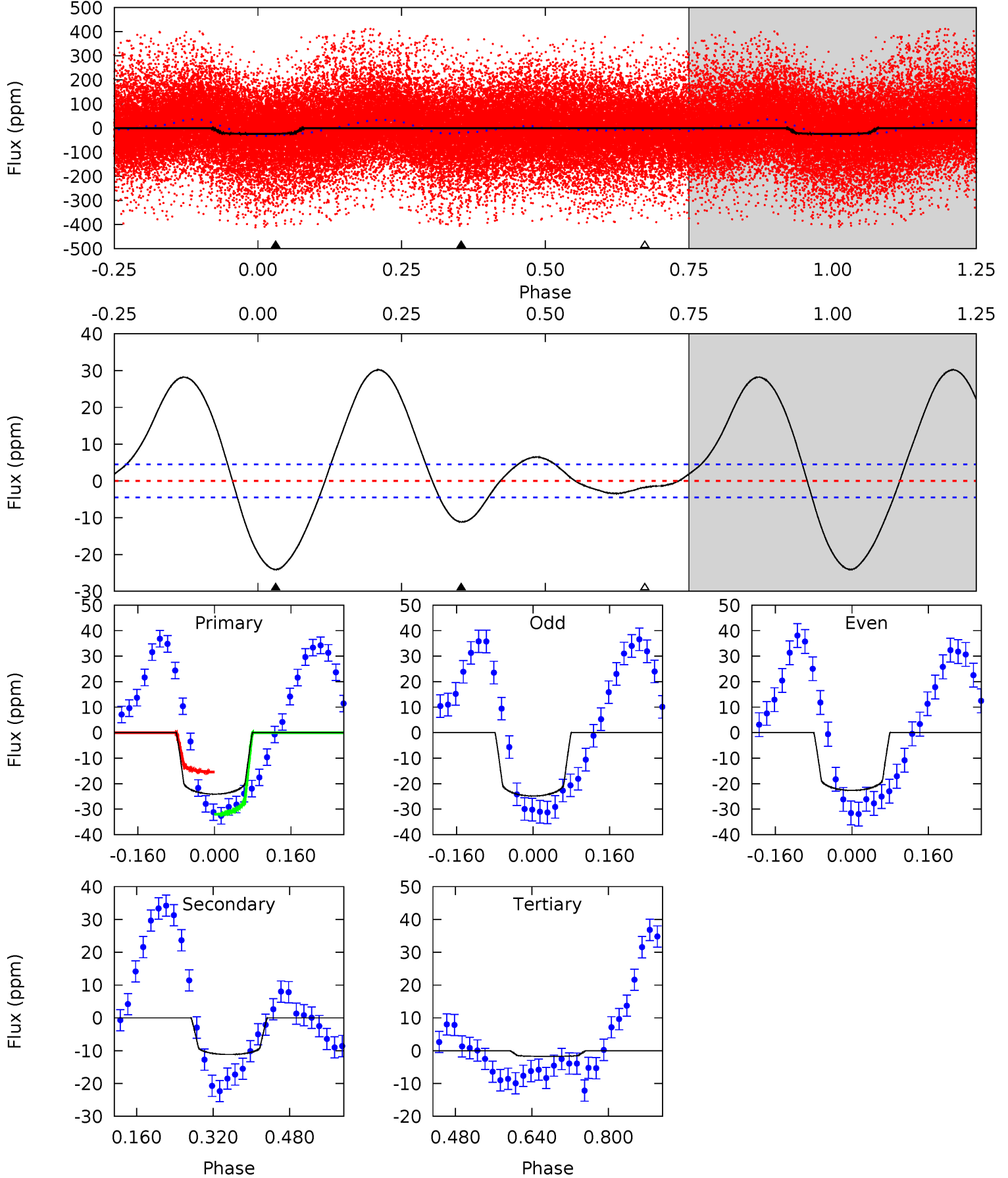




# DV Model-Shift Uniqueness Test

006065699-01, P = 1.329134 Days, E = 131.485418 Days

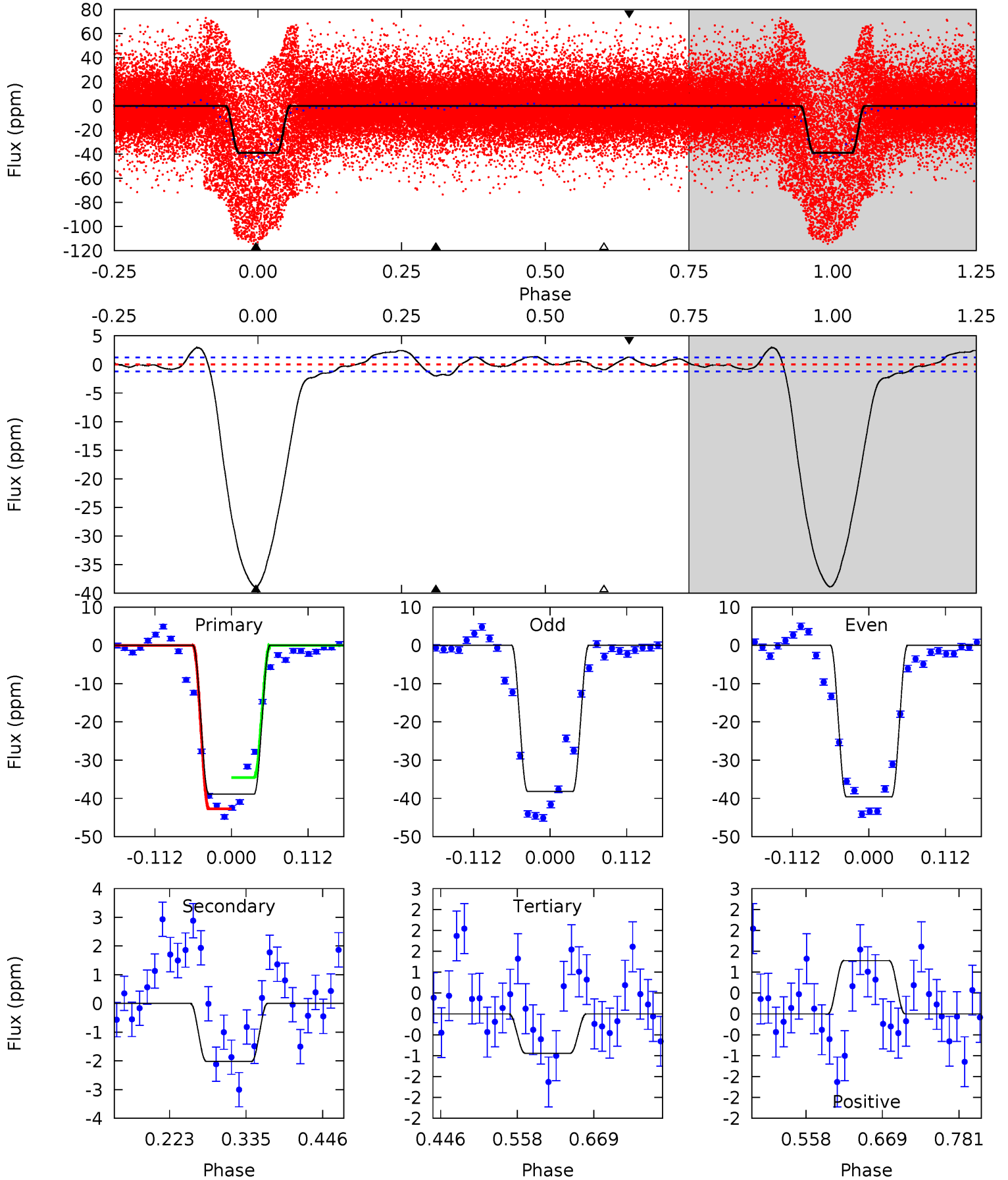
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.0	11.1	1.75	0	4.47	1.41	9.43	22.3	24.0	9.38	11.1	1.10	1.94	0.56	8.20



# Alt Model-Shift Uniqueness Test

006065699-01, P = 1.329097 Days, E = 131.485958 Days

Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
143.7	7.47	3.48	4.72	4.54	1.59	2.57	140.2	139.0	3.98	2.75	2.57	0.99	0.07	0





### Stellar Parameters For KIC 006065699

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R$ ( $R_{\odot}$ )	$M(M_{\odot})$	$\rho_{\star}$ ( $\text{g}\cdot\text{cm}^{-3}$ )
	$11063^{+353}_{-530}$	$3.999^{+0.266}_{-0.143}$	$0.070^{+0.050}_{-0.650}$	$2.857^{+0.654}_{-0.981}$	$2.966^{+0.189}_{-0.754}$	$0.179^{+0.326}_{-0.077}$
	+3%/-5%	+7%/-4%	+71%/-929%	+23%/-34%	+6%/-25%	+182%/-43%
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 006065699-01 / KOI

Detrend	Depth (ppm)	$R_p$ ( $R_{\oplus}$ )	$T_{\text{max}}$ (K)	$T_{\text{obs}}$ (K)	$A_{\text{obs}}$
DV	$-11 \pm 1$	$0.92^{+0.15}_{-0.17}$	$6132^{+488}_{-553}$	$11582^{+1058}_{-950}$	$8.183^{+3.890}_{-2.258}$
Alt.	$-2 \pm 0$	$2.07^{+0.30}_{-0.38}$	$6170^{+505}_{-494}$	$-2598^{+6301}_{-1221}$	$0.293^{+0.119}_{-0.073}$

$T_{\text{max}}$  = Theoretical Maximum Planetary Temperature

$T_{\text{obs}}$  = Observed Planetary Temperature (Assuming  $A=0.3$ )

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

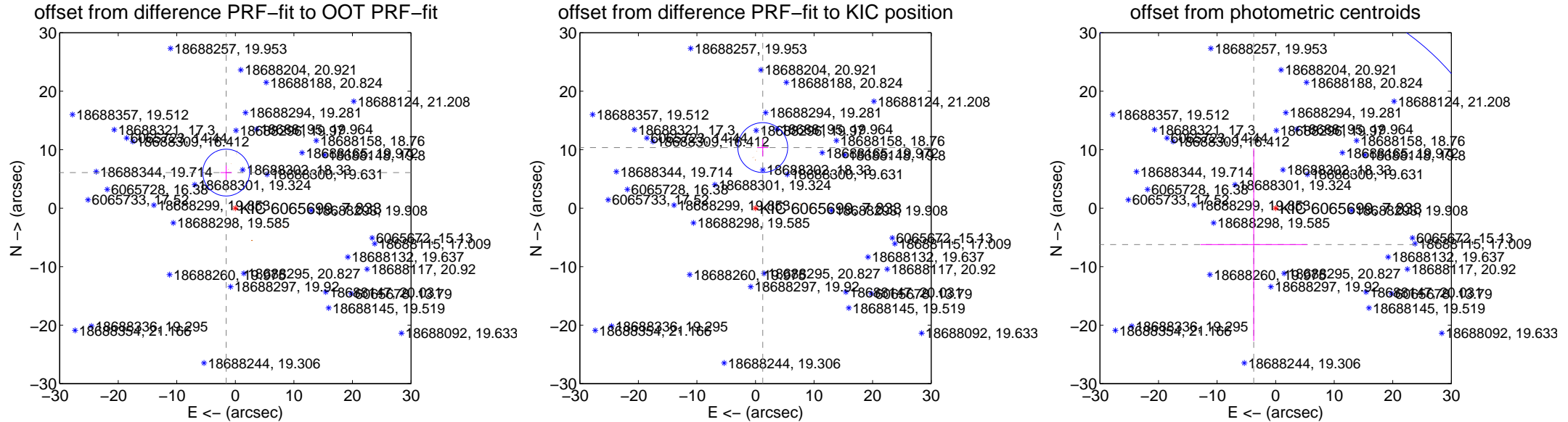
## DV Centroid Data

Supplemental centroid analysis for 006065699-01. **Kepler magnitude: 7.83.** Transit SNR 9.47

There are 0 quarters with good PRF difference image offsets

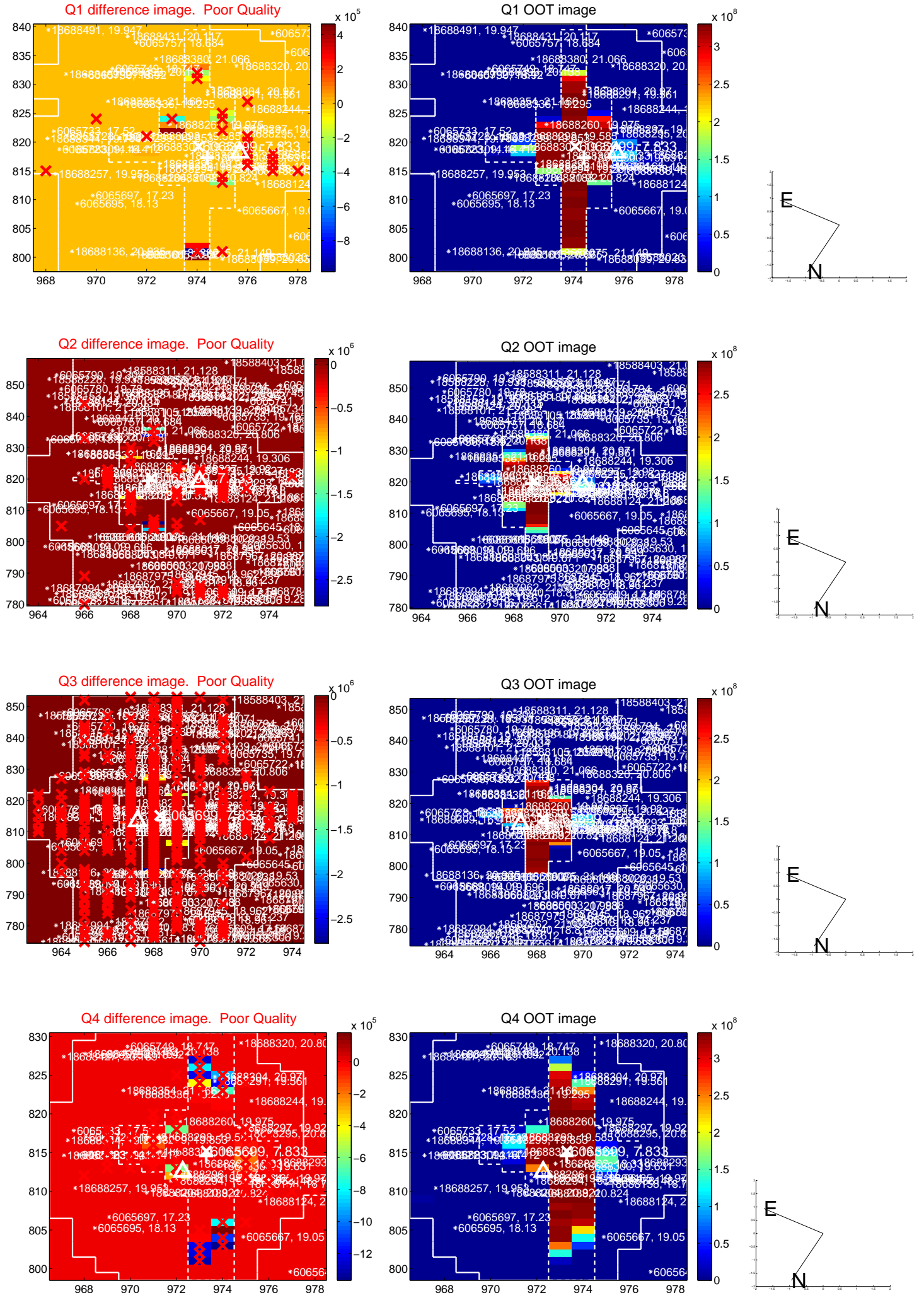
The OOT PRF centroid is offset from the target star catalog position by about 7.90 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	<b><math>6.282 \pm 1.333</math></b>	<b>4.71</b>	$1.568 \pm 0.965$	$6.083 \pm 1.207$
PRF-fit source offset from KIC position	<b><math>10.435 \pm 1.420</math></b>	<b>7.35</b>	$-1.243 \pm 0.954$	$10.361 \pm 1.487$
photometric centroid source offset	$7.26 \pm 14.88$	0.49	$3.74 \pm 9.10$	$-6.23 \pm 16.47$

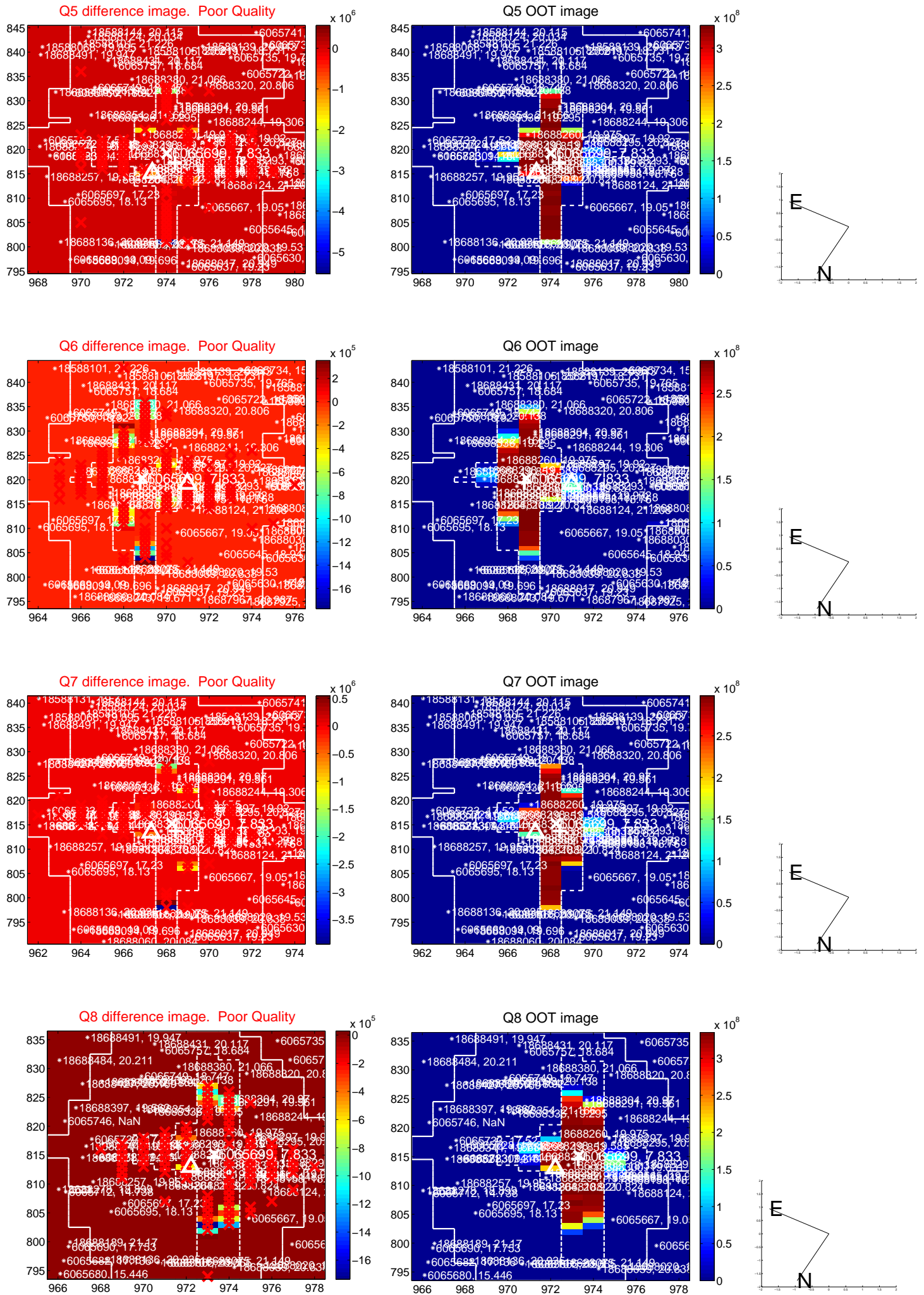


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: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

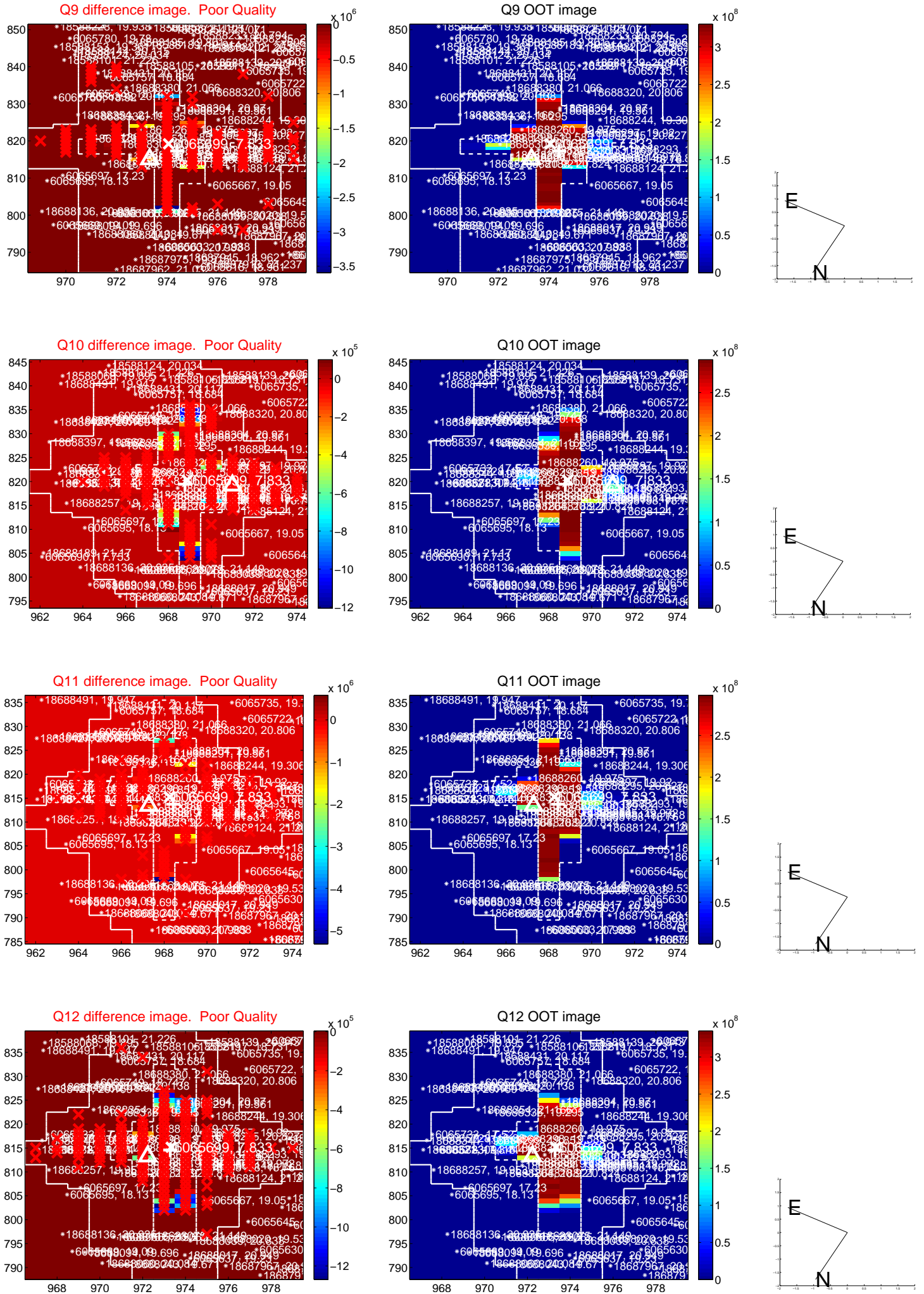


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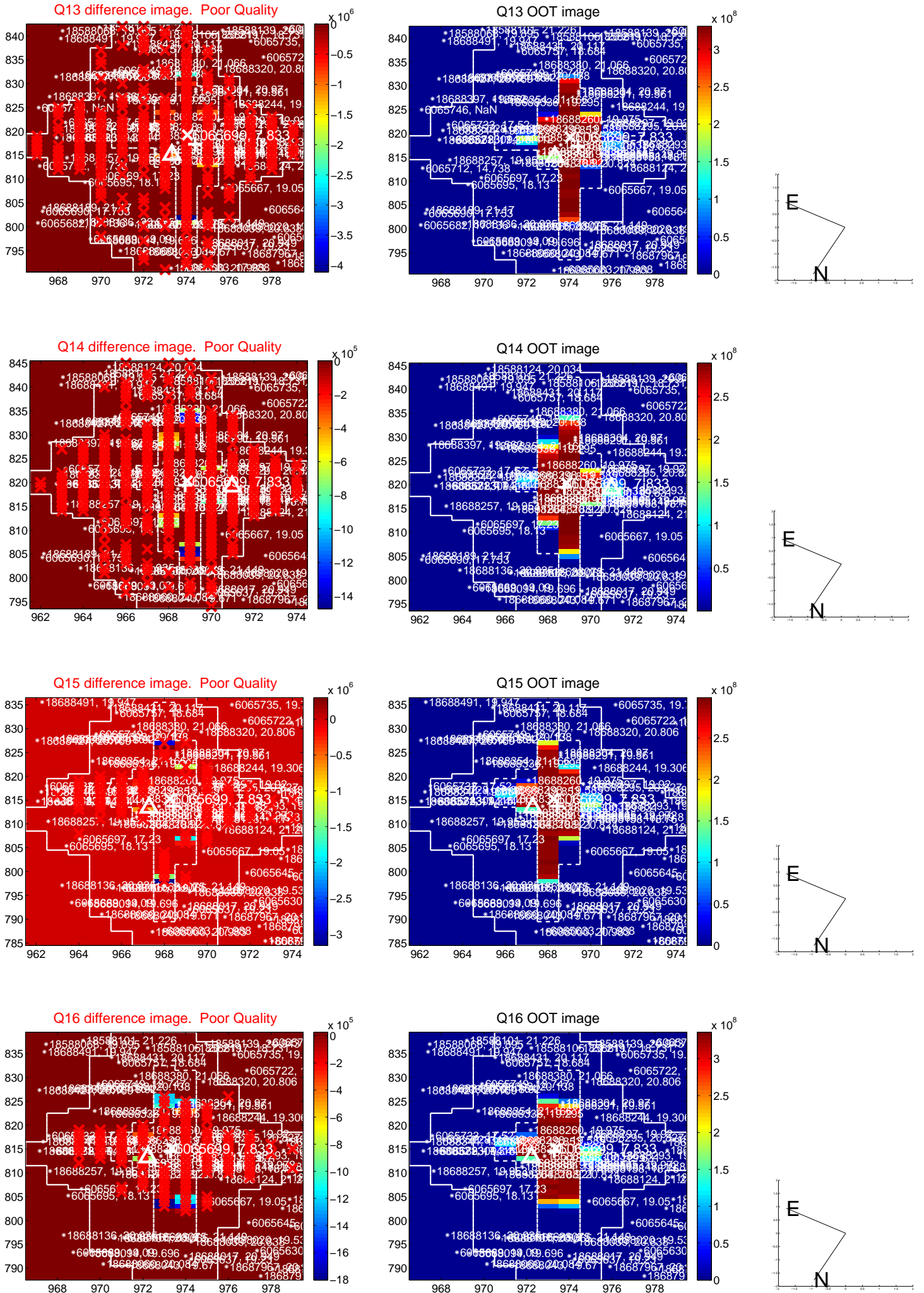




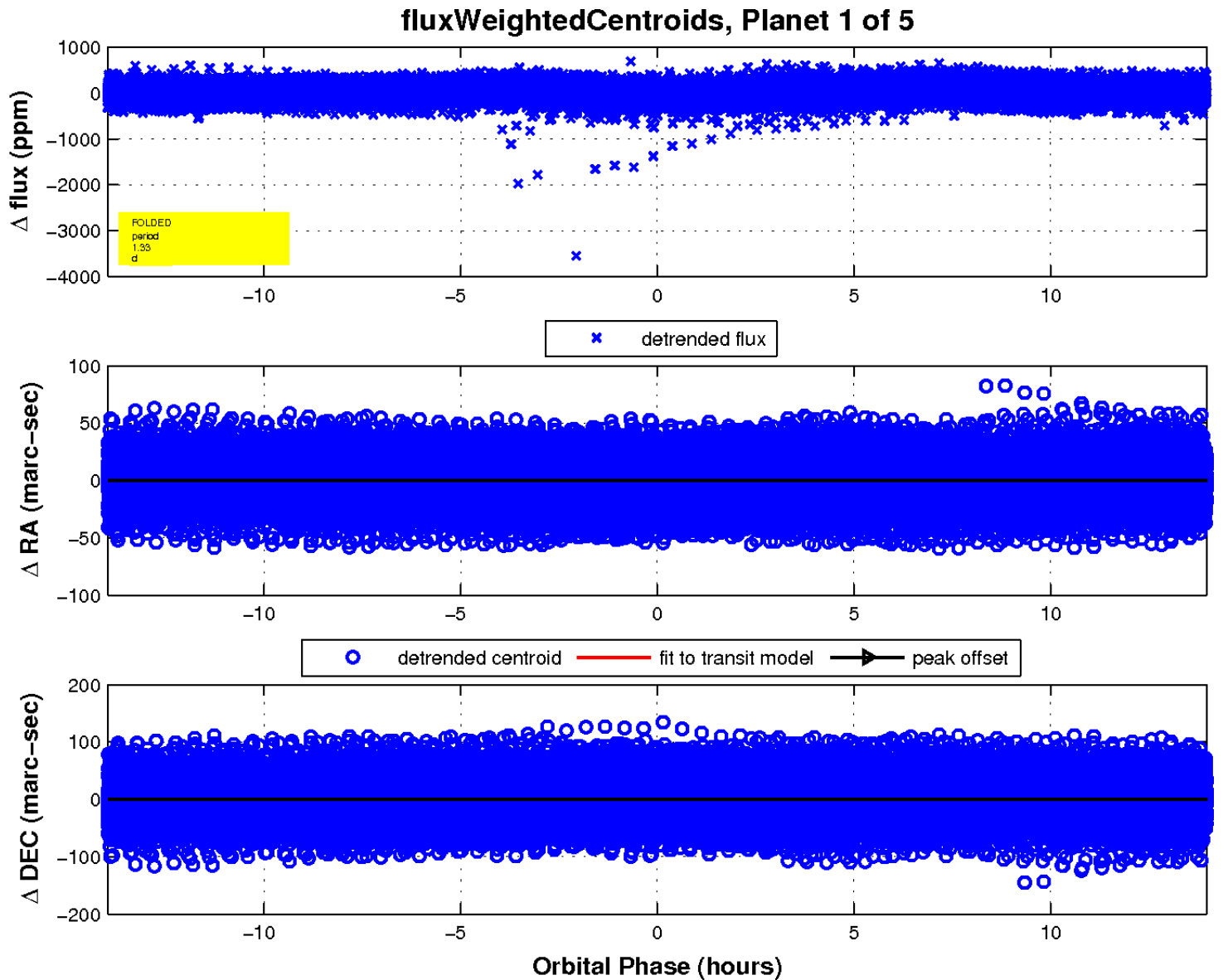
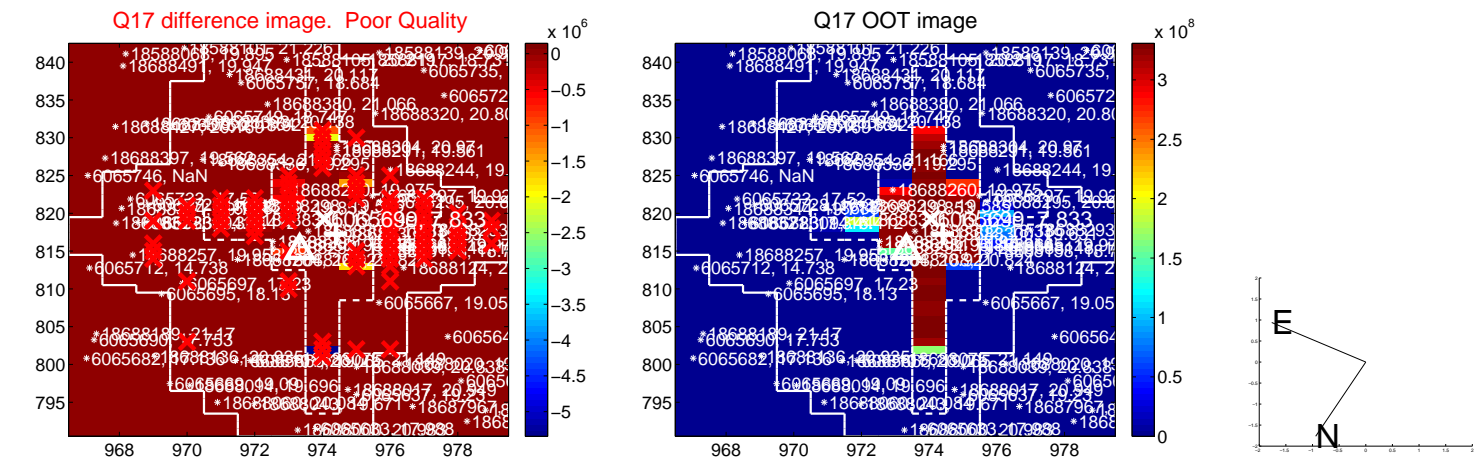
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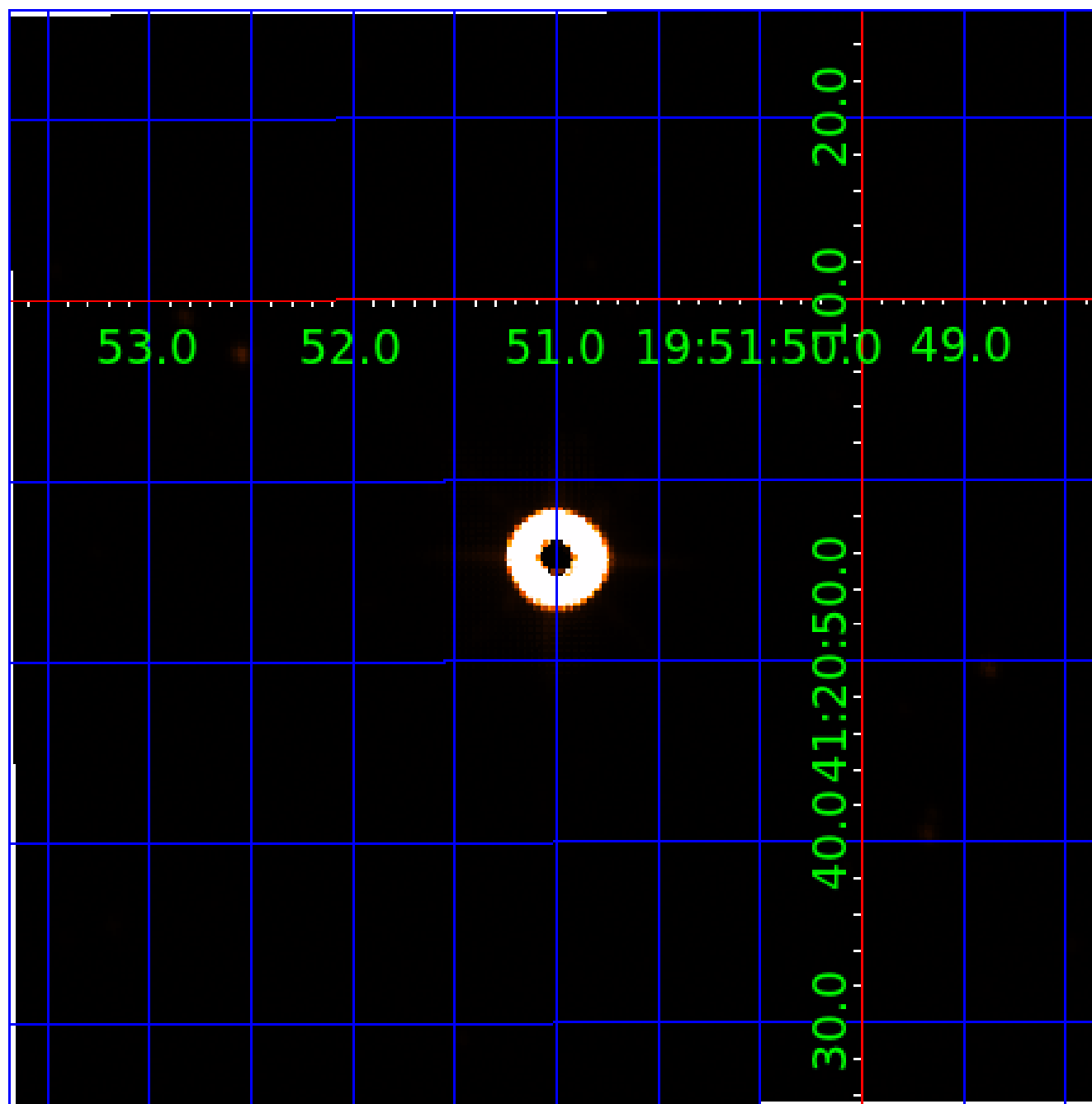
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UKIRT Image

Declination





# KIC 006065699

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
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## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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006065699-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE_ZUMA_TRACKER—TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_SATURATED
006065699-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
006065699-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
006065699-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED

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

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

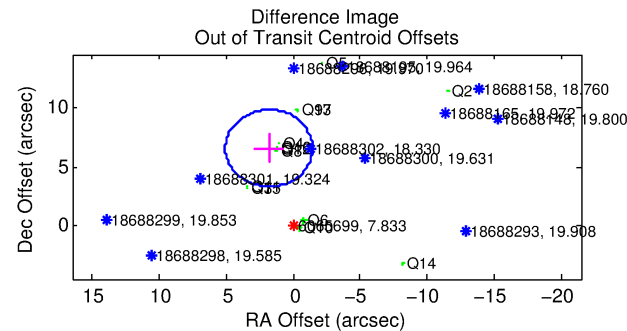
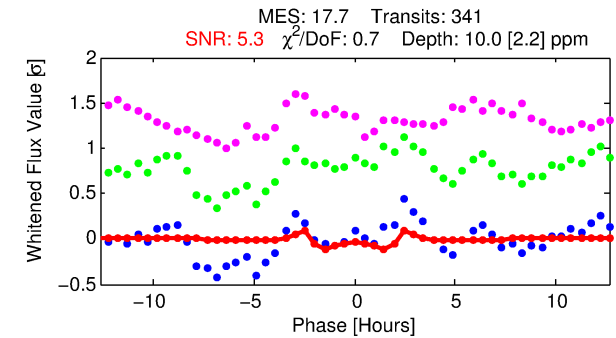
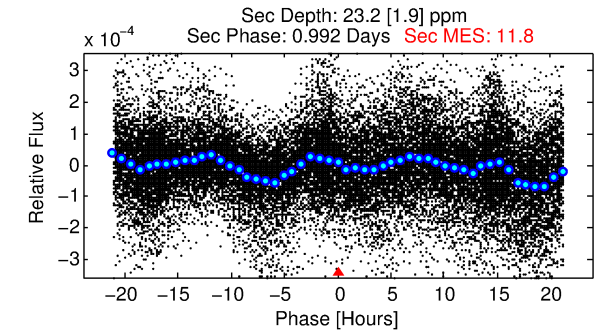
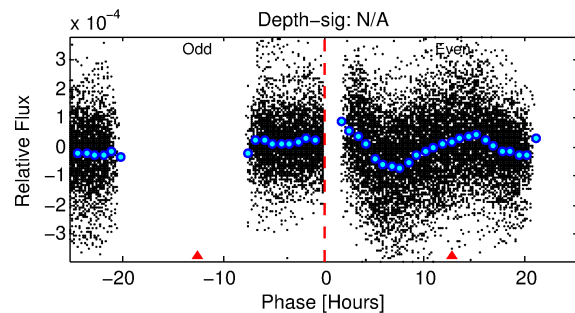
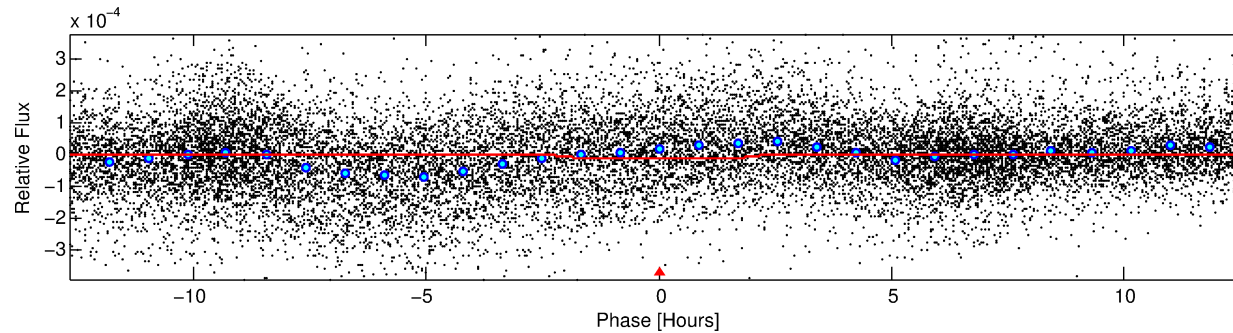
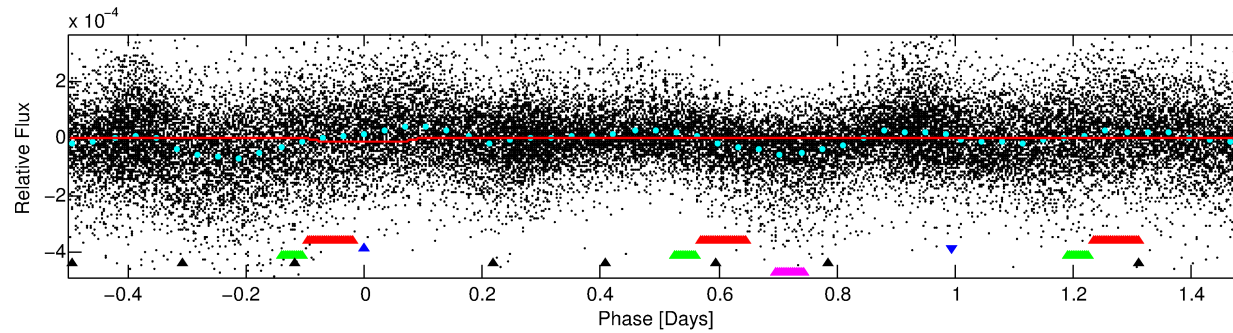
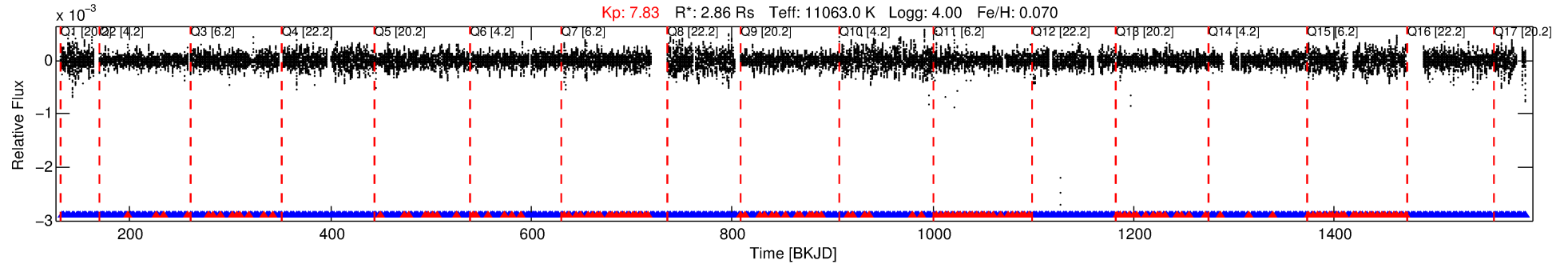
See [http://exoplanetarchive.ipac.caltech.edu/docs/API\\_kepcandidate\\_columns.html#proj\\_disp\\_col](http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col) for comment definitions.

## Ephemeris Match Information For 006065699-02

No Significant Match Found

# DV One-Page Summary

KIC: 6065699 Candidate: 2 of 5 Period: 1.994 d



## DV Fit Results:

Period = 1.99359 [0.00002] d  
Epoch = 132.9106 [0.0030] BKJD  
Rp/R\* = 0.0033 [0.0004]  
a/R\* = 1.85 [0.79]  
b = 0.90 [0.13]  
Seff = 55141.35 [27891.49]  
Teq = 3907 [494] K  
Rp = 1.03 [0.38] Re  
a = 0.0446 [0.0137] AU  
Ag = 23.86 [12.93] [1.77σ]  
Teff = 13353 [1113] K [7.75σ]

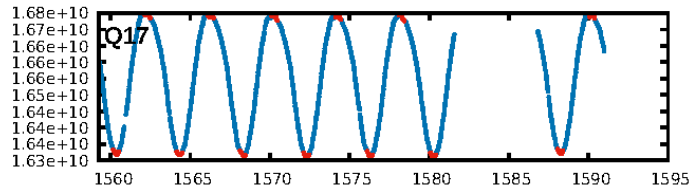
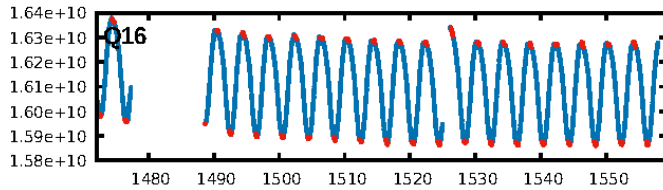
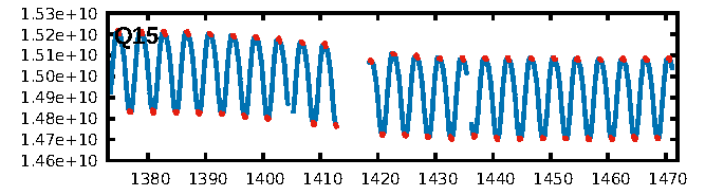
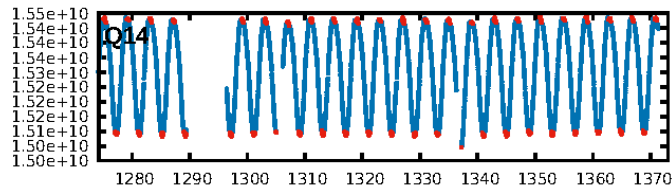
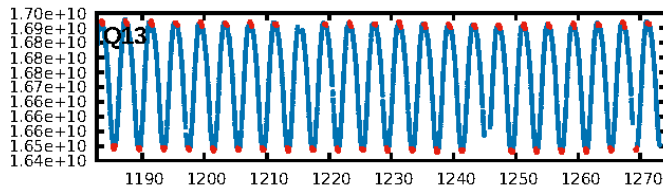
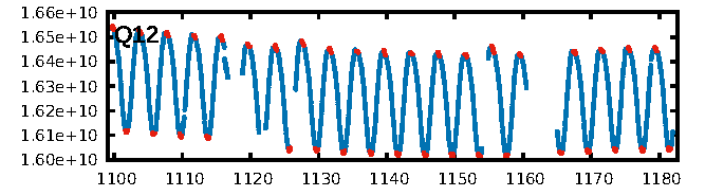
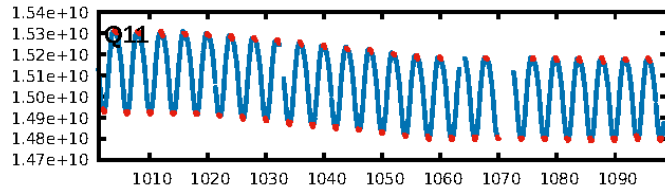
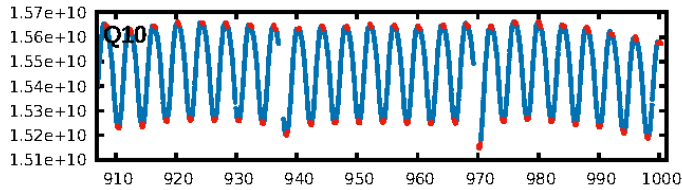
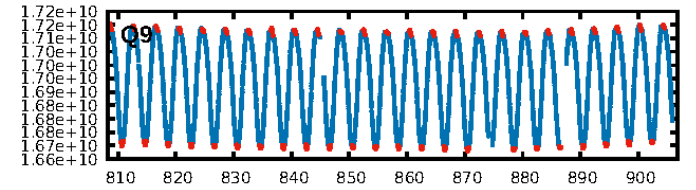
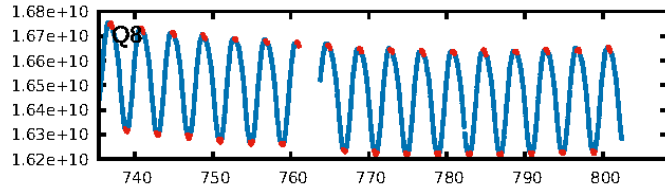
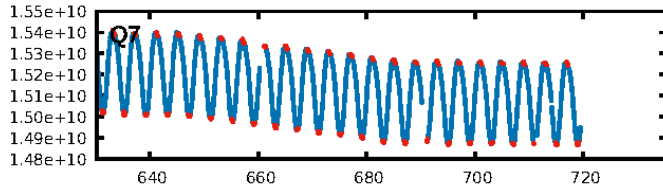
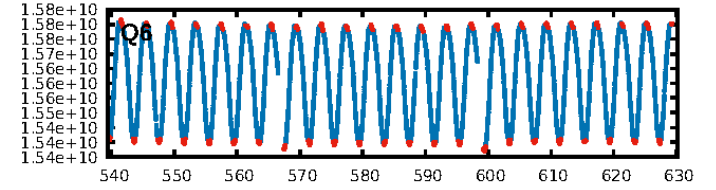
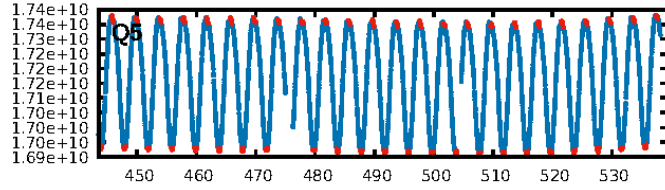
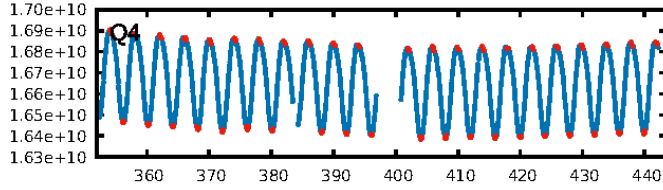
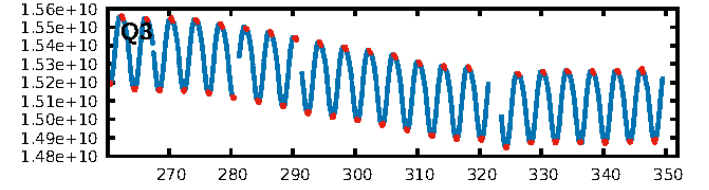
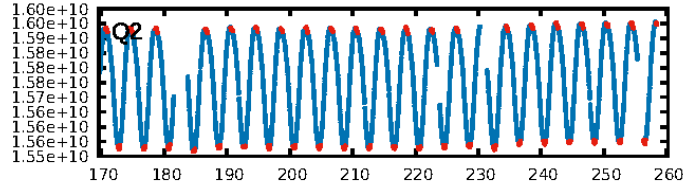
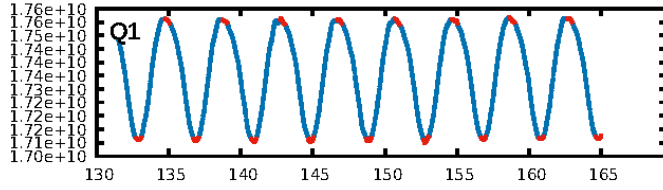
## DV Diagnostic Results:

ShortPeriod-sig: 98.9% [2.54σ]  
LongPeriod-sig: 0.0% [0.00σ]  
ModelChiSquare2-sig: N/A  
ModelChiSquareGof-sig: N/A  
Bootstrap-pfa: 1.09e-21  
RollingBand-fgt: 0.61 [198/327]  
GhostDiagnostic-chr: N/A  
Centroid-sig: 22.6%  
Centroid-so: 17.586 arcsec [1.25σ]  
OotOffset-rm: 6.812 arcsec [6.28σ]  
KicOffset-rm: 10.969 arcsec [8.20σ]  
OotOffset-st: 4/4/4/5 [17]  
KicOffset-st: 4/4/4/5 [17]  
DiffImageQuality-fgm: 0.00 [0/17]  
DiffImageOverlap-fno: 0.00 [0/17]

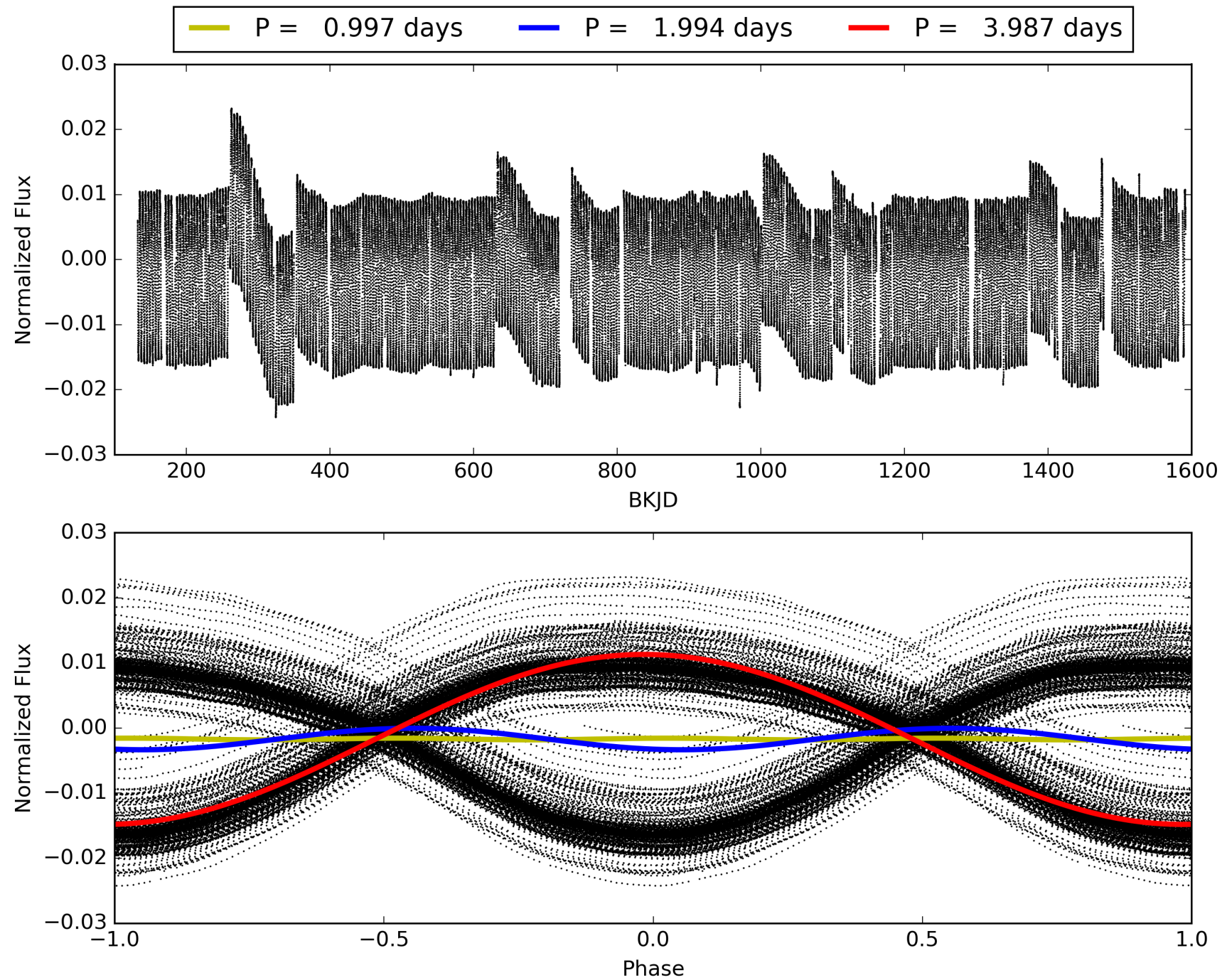
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

# TCE 006065699-02, PDC Light Curves



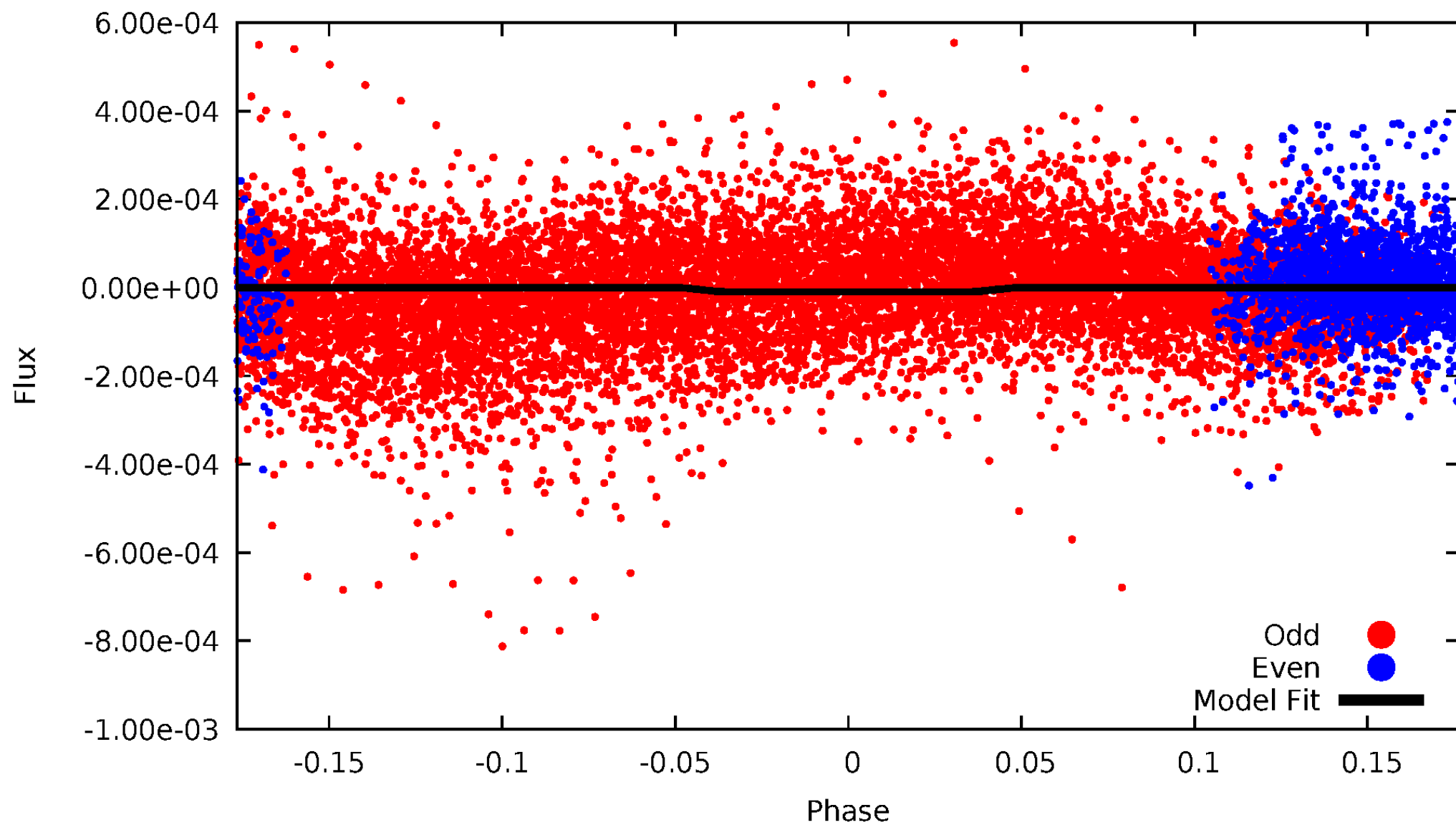
TCE 006065699-02





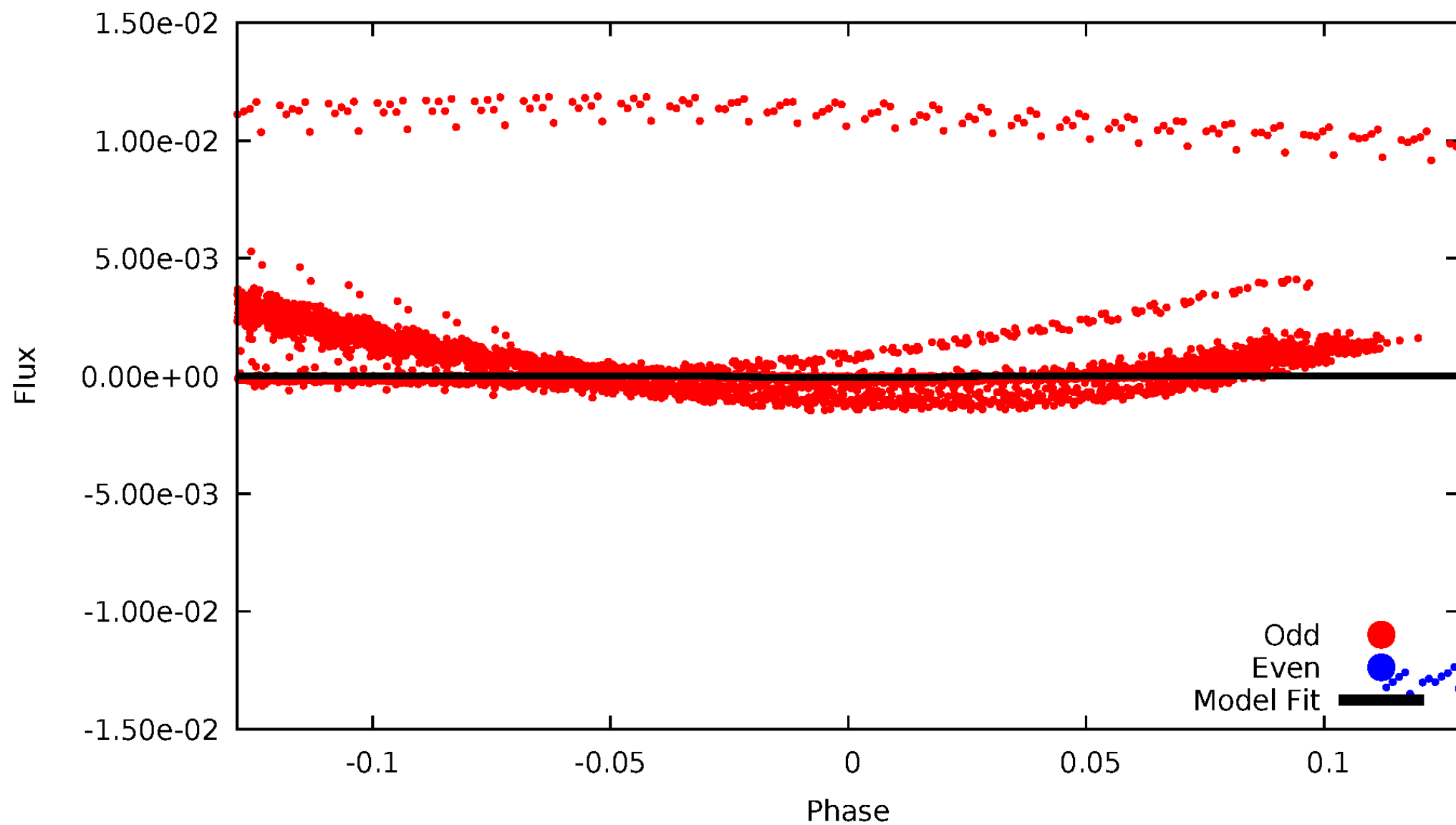
# DV Odd/Even

TCE 006065699-02



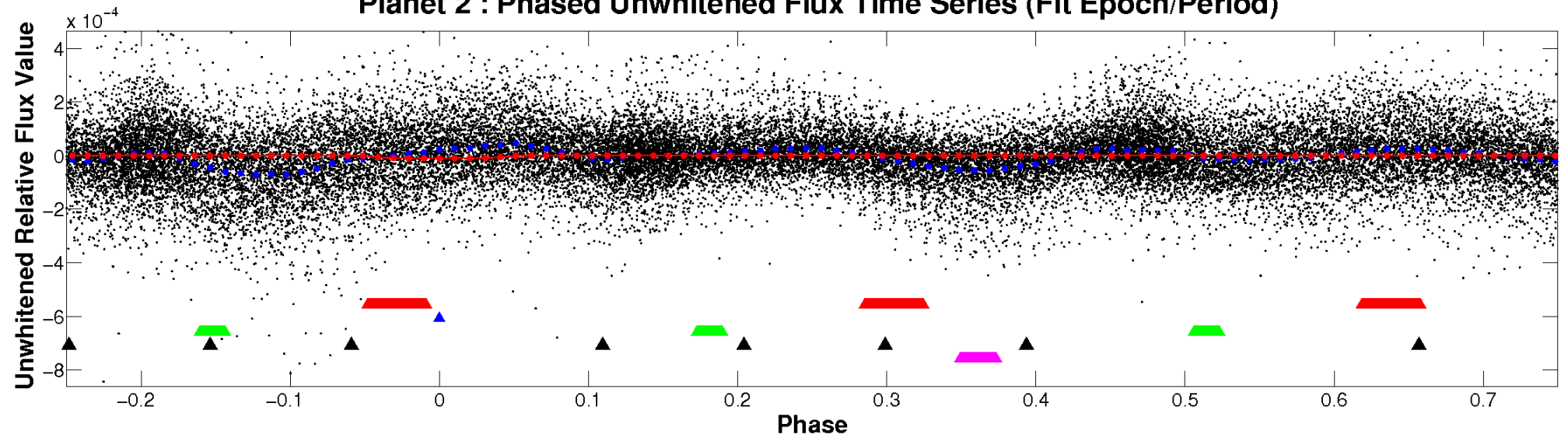
# ALT Odd/Even

TCE 006065699-02

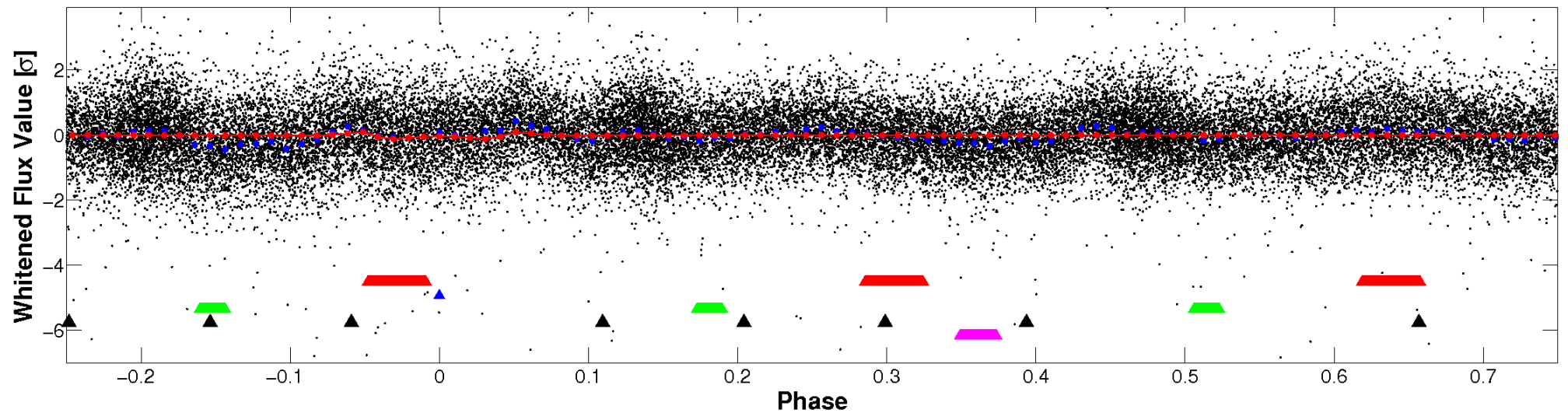


# Non-Whitened Vs. Whitened Light Curve

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

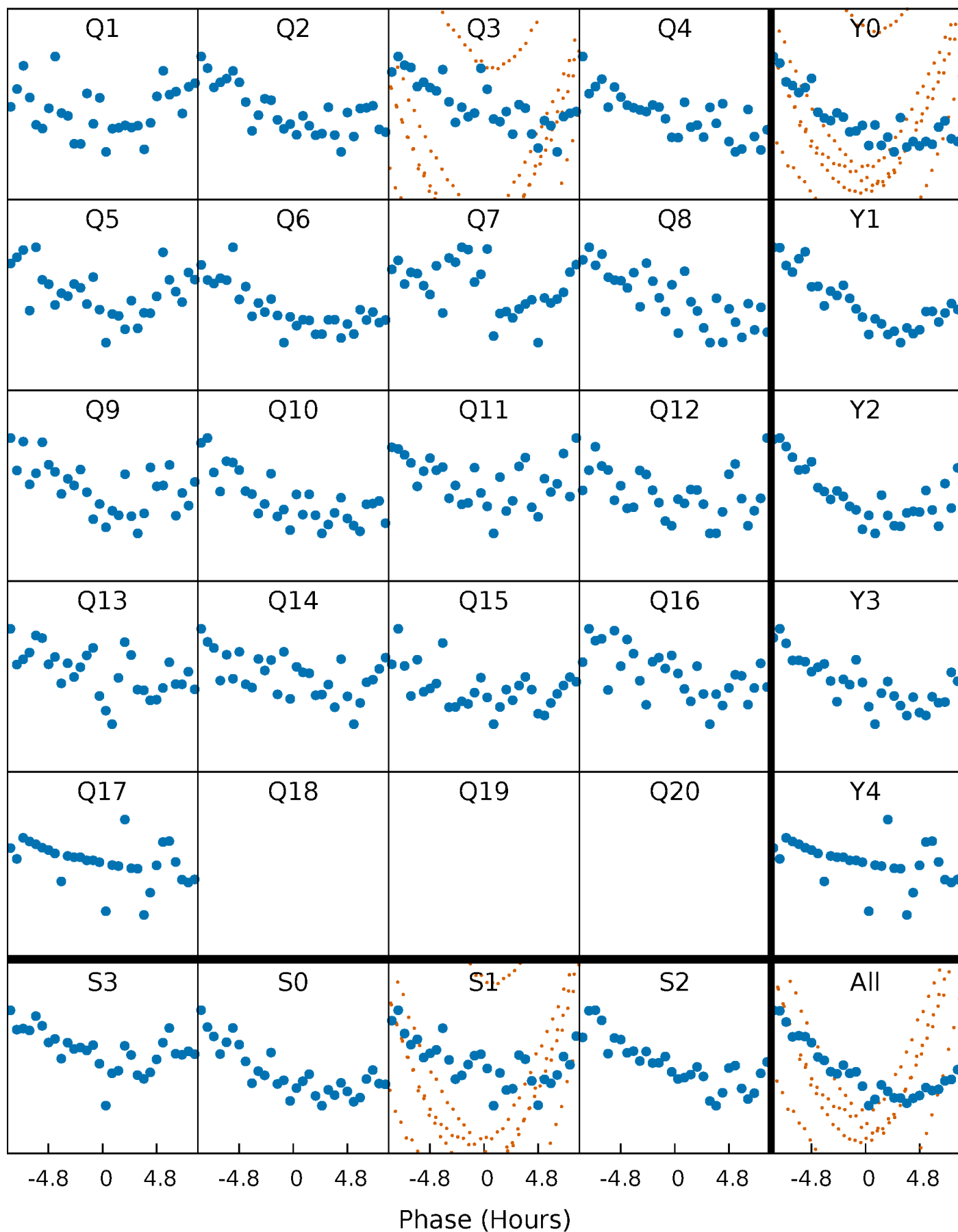


## Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



# PDC Quarter-Phased Transit Curves

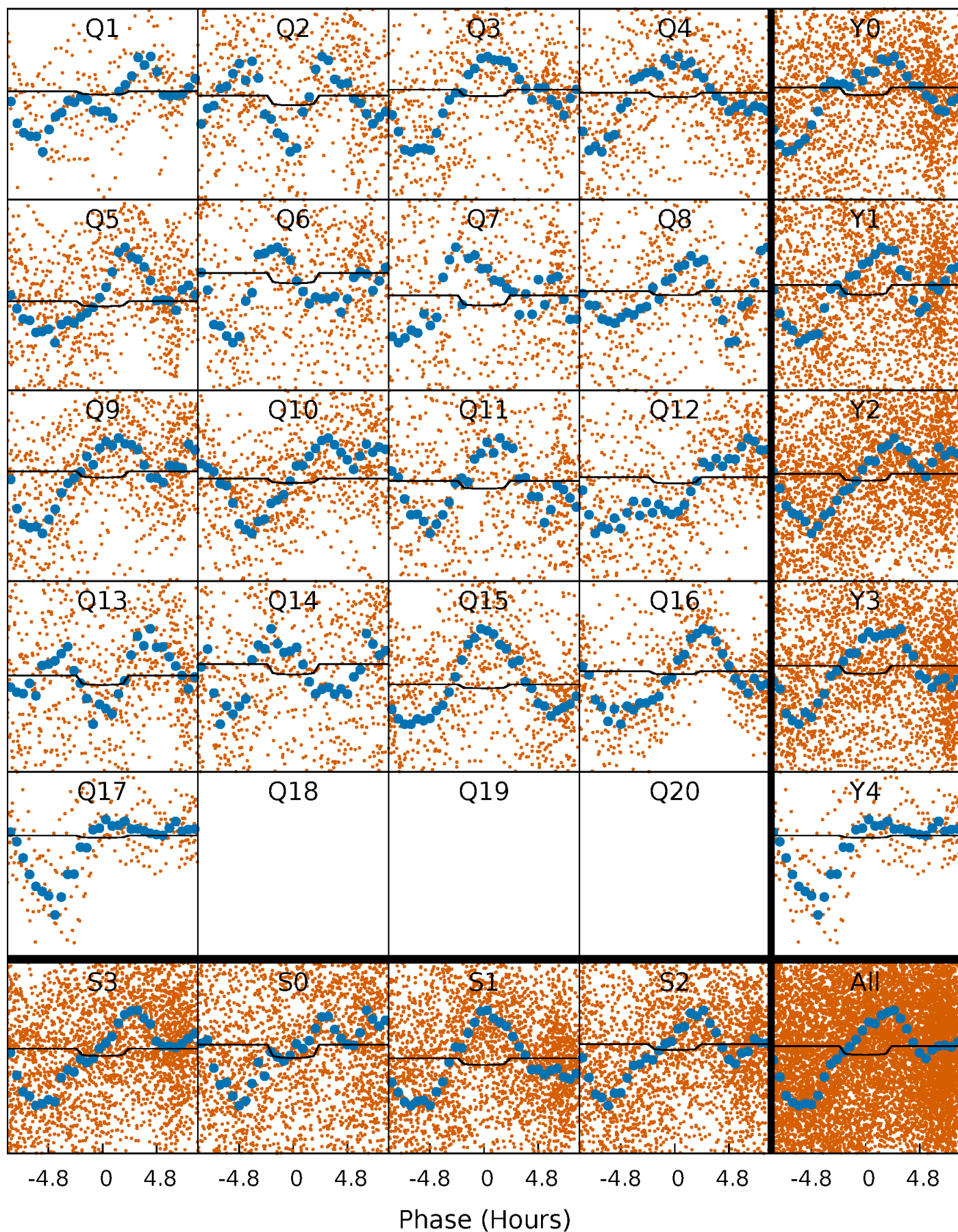
TCE 006065699-02 P= 1.993593 Days  $T_0=132.910575$  (BKJD)





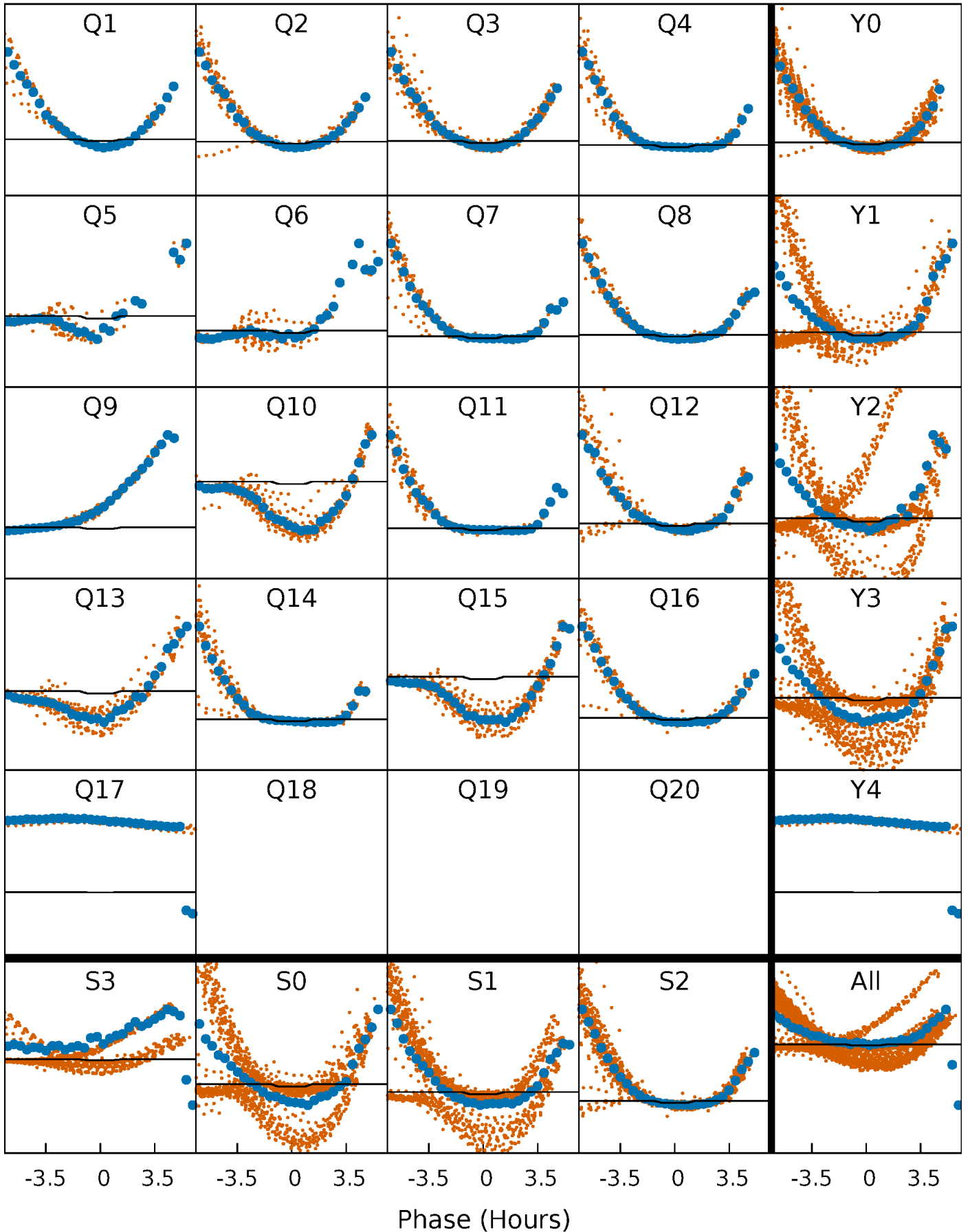
# DV Quarter-Phased Transit Curves

TCE 006065699-02 P= 1.993593 Days  $T_0=132.910575$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

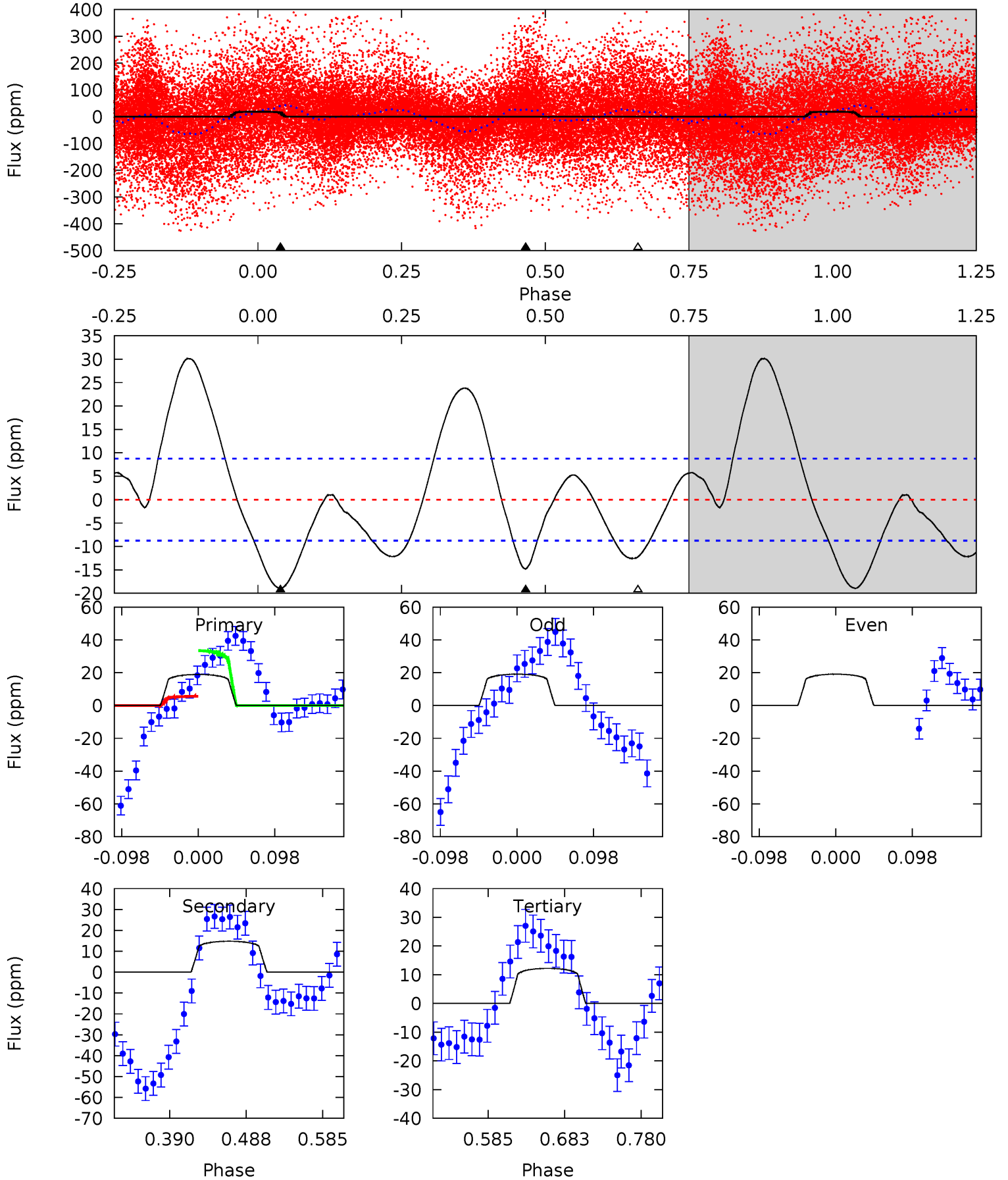
TCE 006065699-02 P= 1.993674 Days  $T_0=132.910817$  (BKJD)



# DV Model-Shift Uniqueness Test

006065699-02, P = 1.993593 Days, E = 130.916982 Days

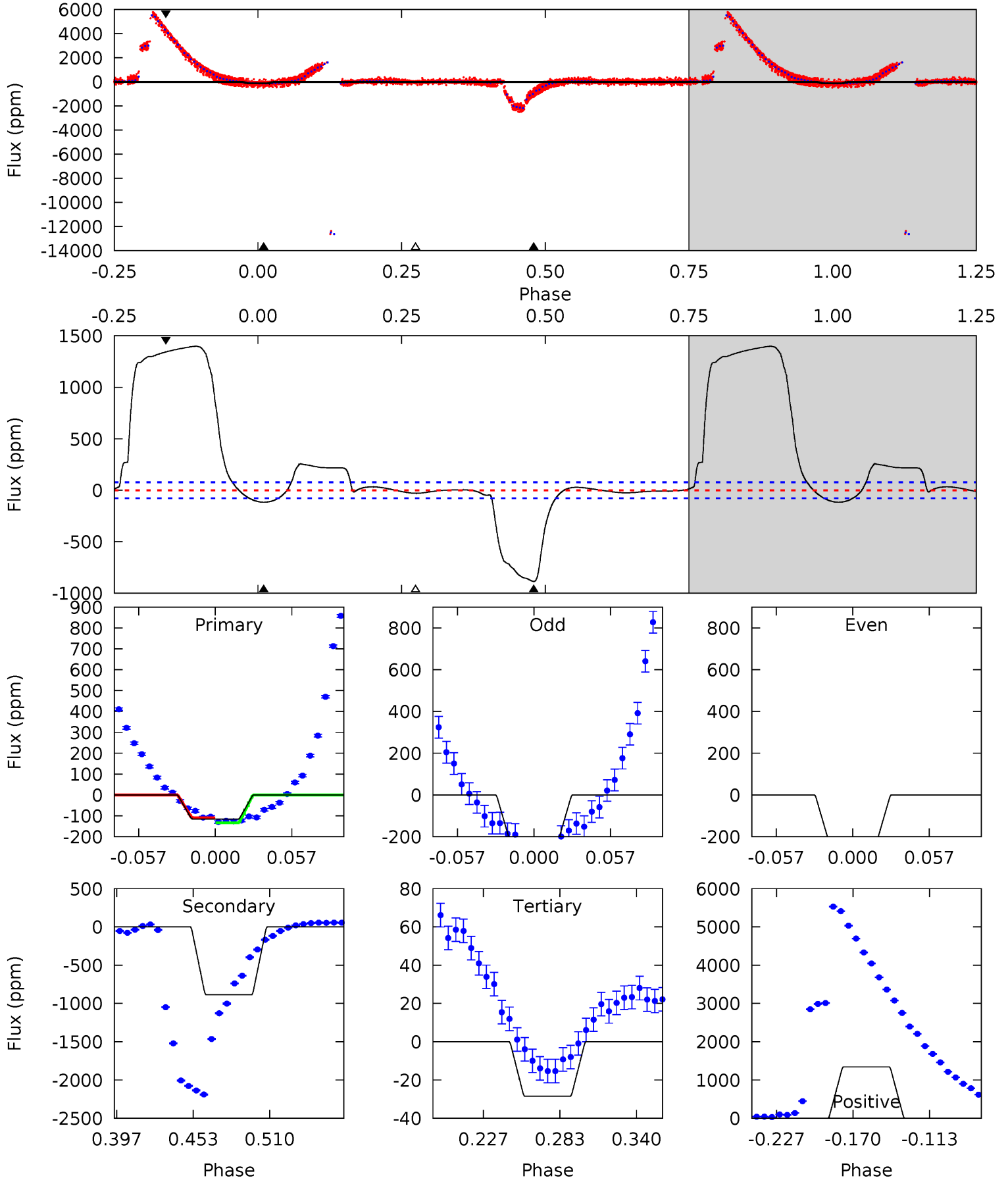
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.88	7.72	6.37	0	4.57	1.66	6.47	3.51	9.88	1.35	7.72	0	1.19	0.61	7.75



# Alt Model-Shift Uniqueness Test

006065699-02, P = 1.993674 Days, E = 130.917143 Days

Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.99	53.4	1.71	81.1	4.68	1.91	17.1	5.27	-74.1	51.7	-27.7	0	-0.32	0.61	0.62





### Stellar Parameters For KIC 006065699

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	$11063^{+353}_{-530}$	$3.999^{+0.266}_{-0.143}$	$0.070^{+0.050}_{-0.650}$	$2.857^{+0.654}_{-0.981}$	$2.966^{+0.189}_{-0.754}$	$0.179^{+0.326}_{-0.077}$
	+3%/-5%	+7%/-4%	+71%/-929%	+23%/-34%	+6%/-25%	+182%/-43%
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 006065699-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	$A_{obs}$
DV	$-15 \pm 2$	$1.00^{+0.22}_{-0.22}$	$5390^{+388}_{-454}$	$12226^{+1930}_{-1341}$	$16^{+9}_{-5}$
Alt.	$-886 \pm 17$	$2.24^{+0.34}_{-0.41}$	$5354^{+421}_{-498}$	$55351^{+7460}_{-6556}$	$189^{+81}_{-46}$

$T_{max}$  = 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  $A_{obs} \gg 1.0$

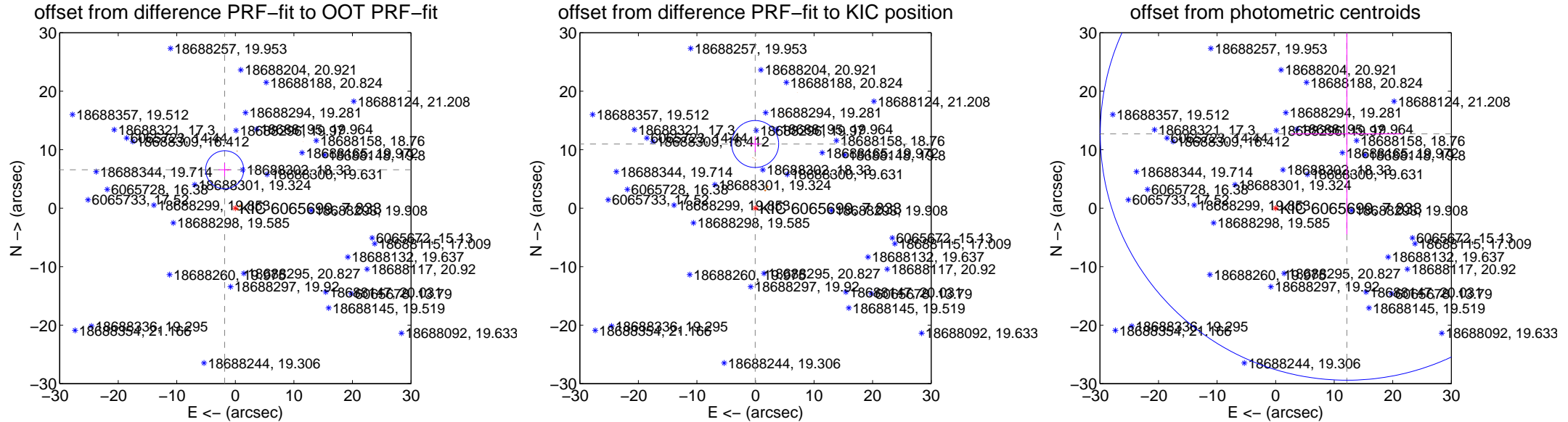
## DV Centroid Data

Supplemental centroid analysis for 006065699-02. **Kepler magnitude: 7.83.** Transit SNR 5.27

There are 0 quarters with good PRF difference image offsets

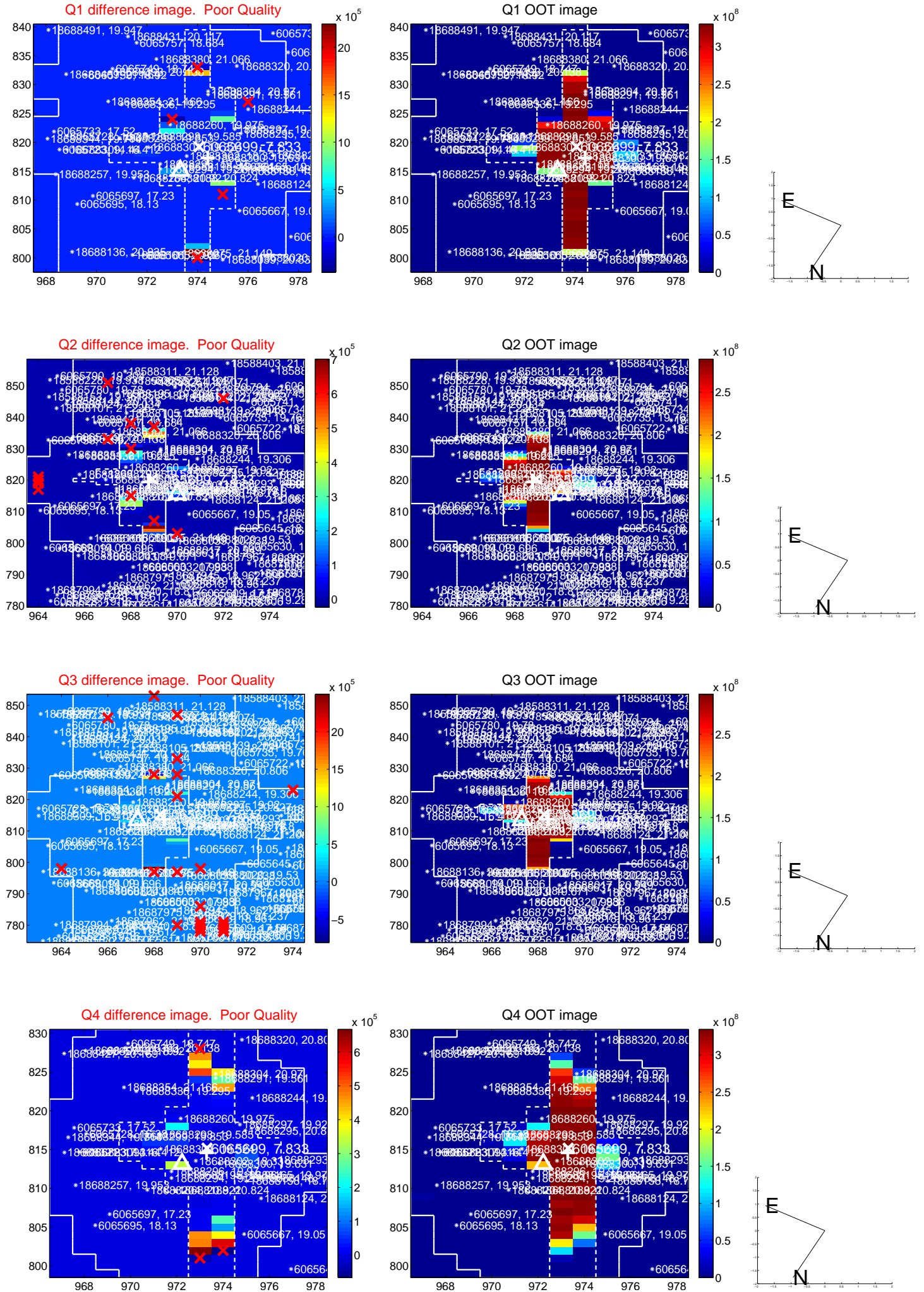
The OOT PRF centroid is offset from the target star catalog position by about 7.89 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	<b><math>6.812 \pm 1.085</math></b>	<b>6.28</b>	$1.820 \pm 1.029$	$6.565 \pm 1.133$
PRF-fit source offset from KIC position	<b><math>10.969 \pm 1.338</math></b>	<b>8.20</b>	$0.056 \pm 0.909$	$10.969 \pm 1.339$
photometric centroid source offset	$17.59 \pm 14.04$	1.25	$-12.17 \pm 9.50$	$12.70 \pm 17.18$

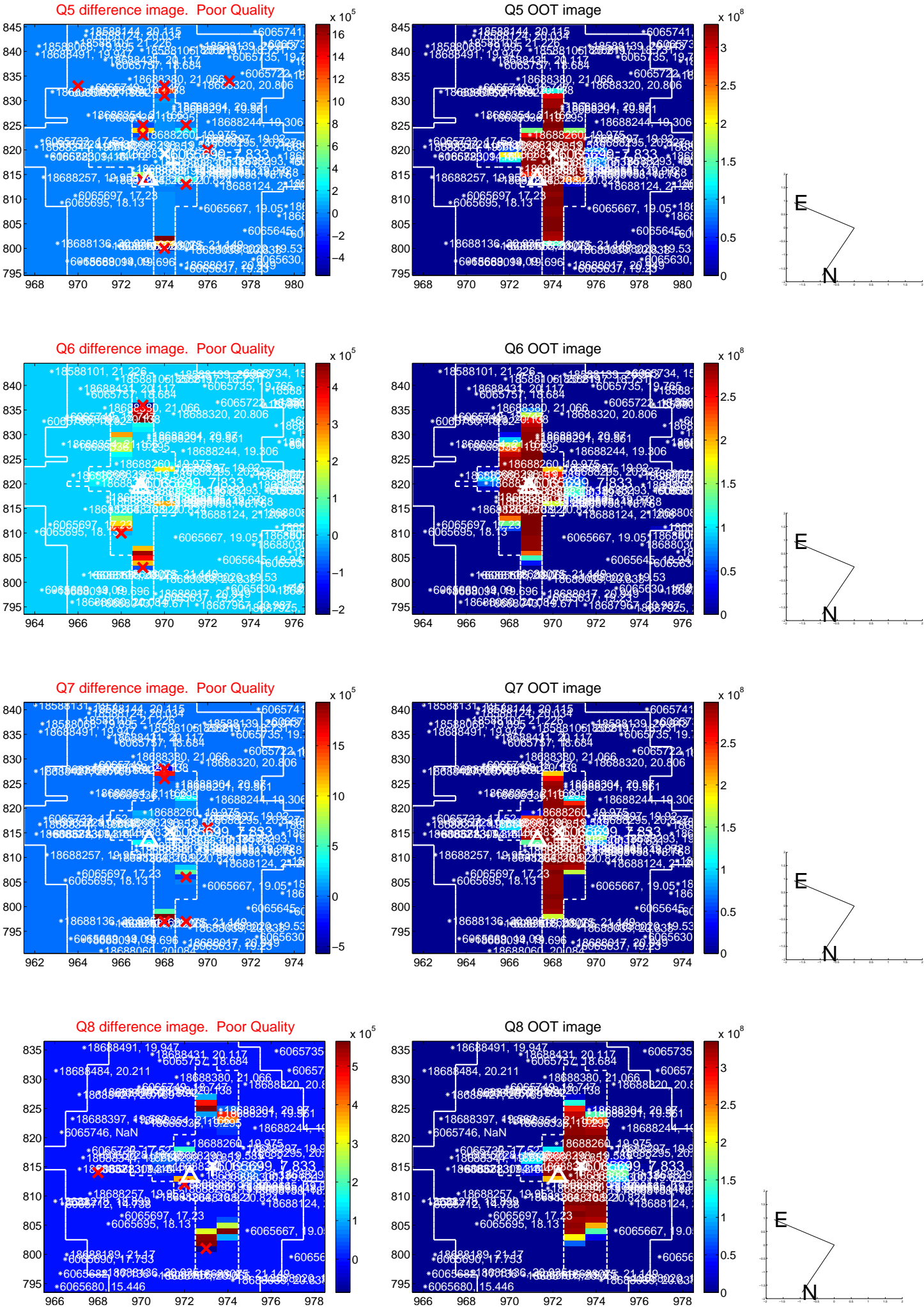


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: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

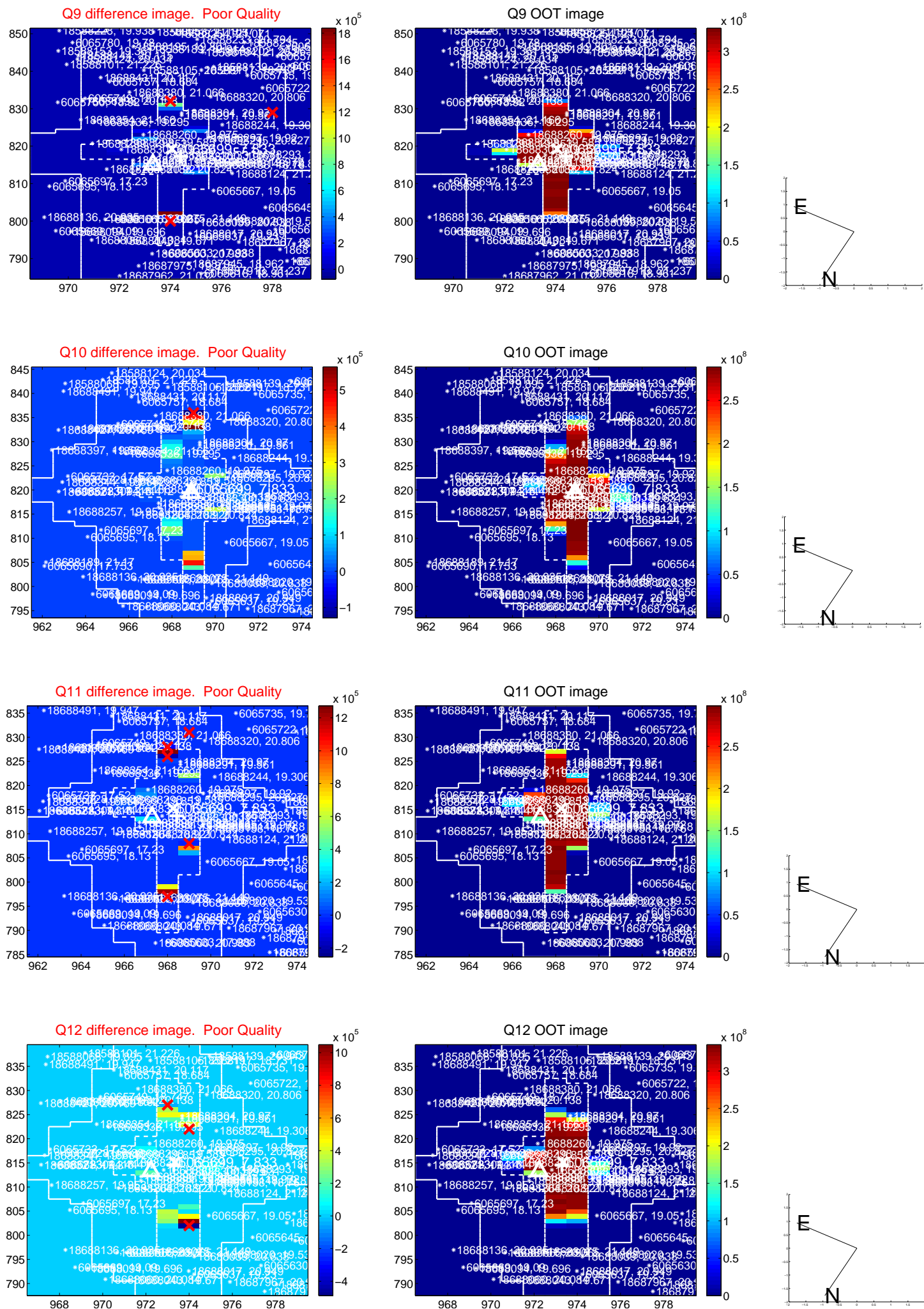


white  $\times$ : KIC target position; +: OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.

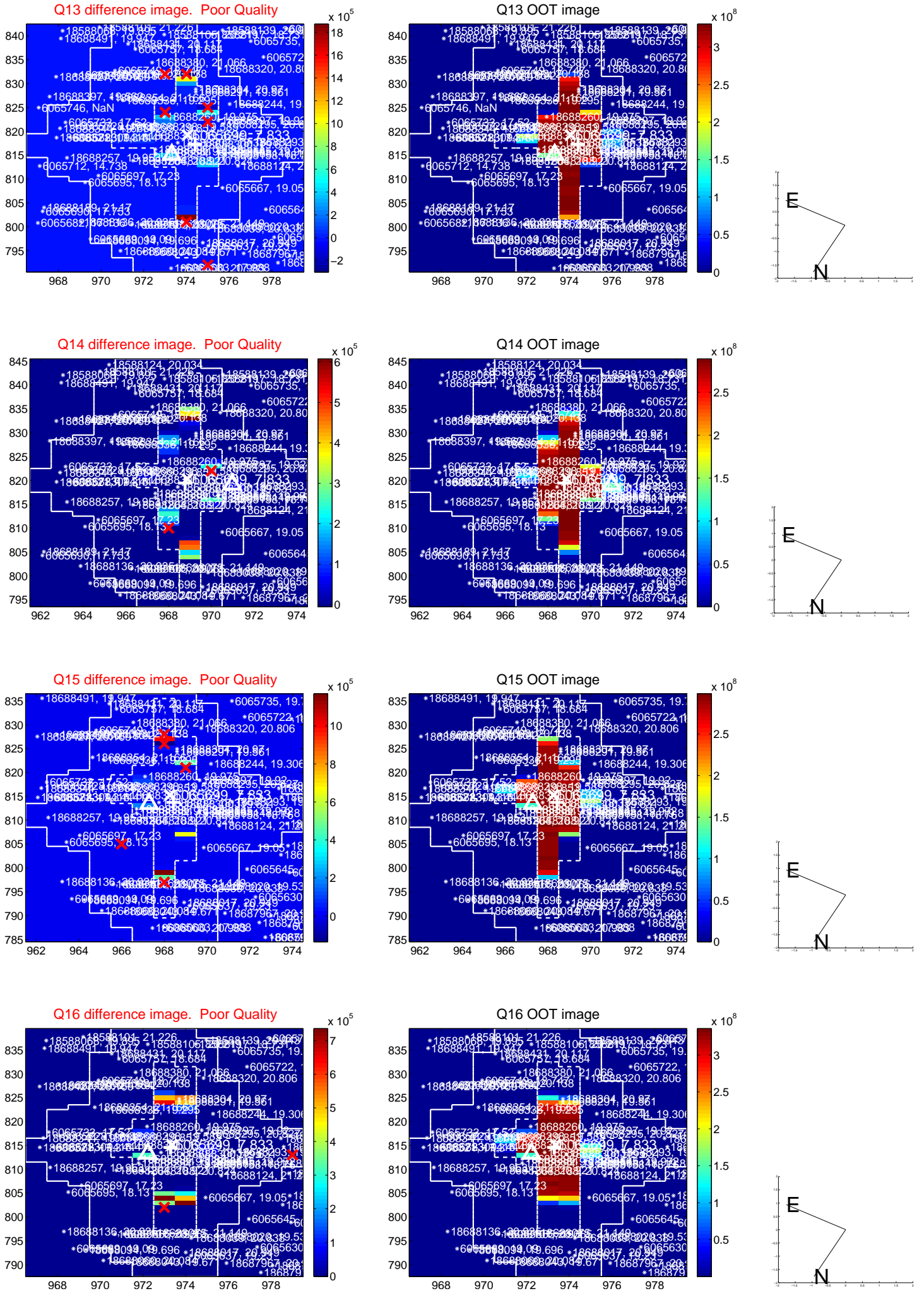




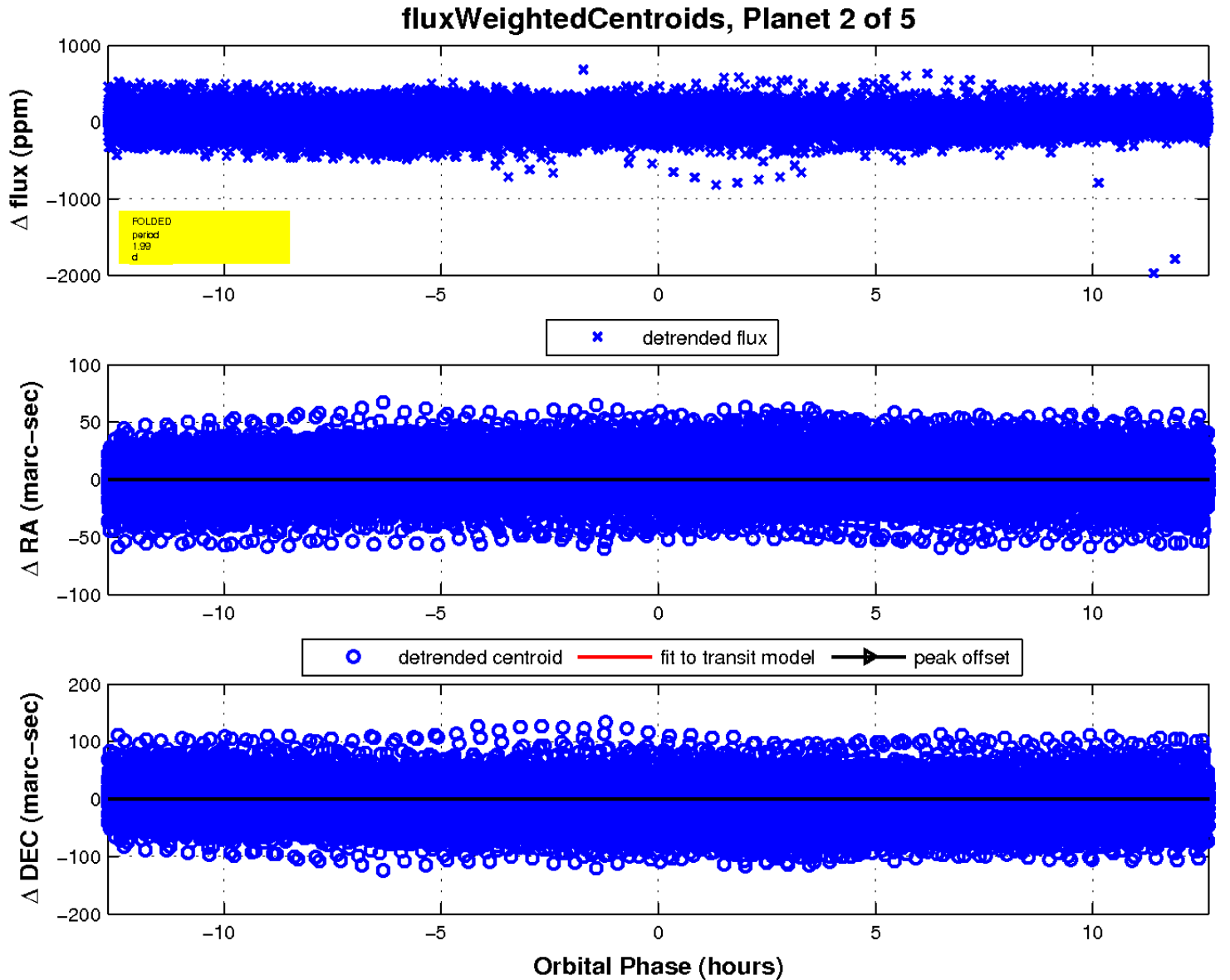
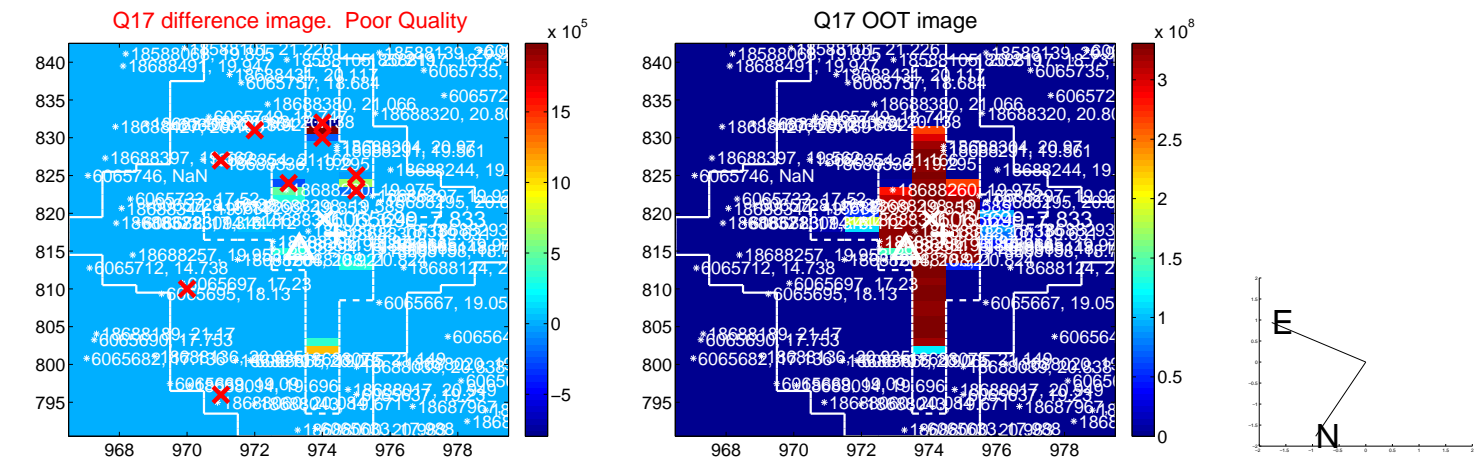
white  $\times$ : KIC target position; +: OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



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

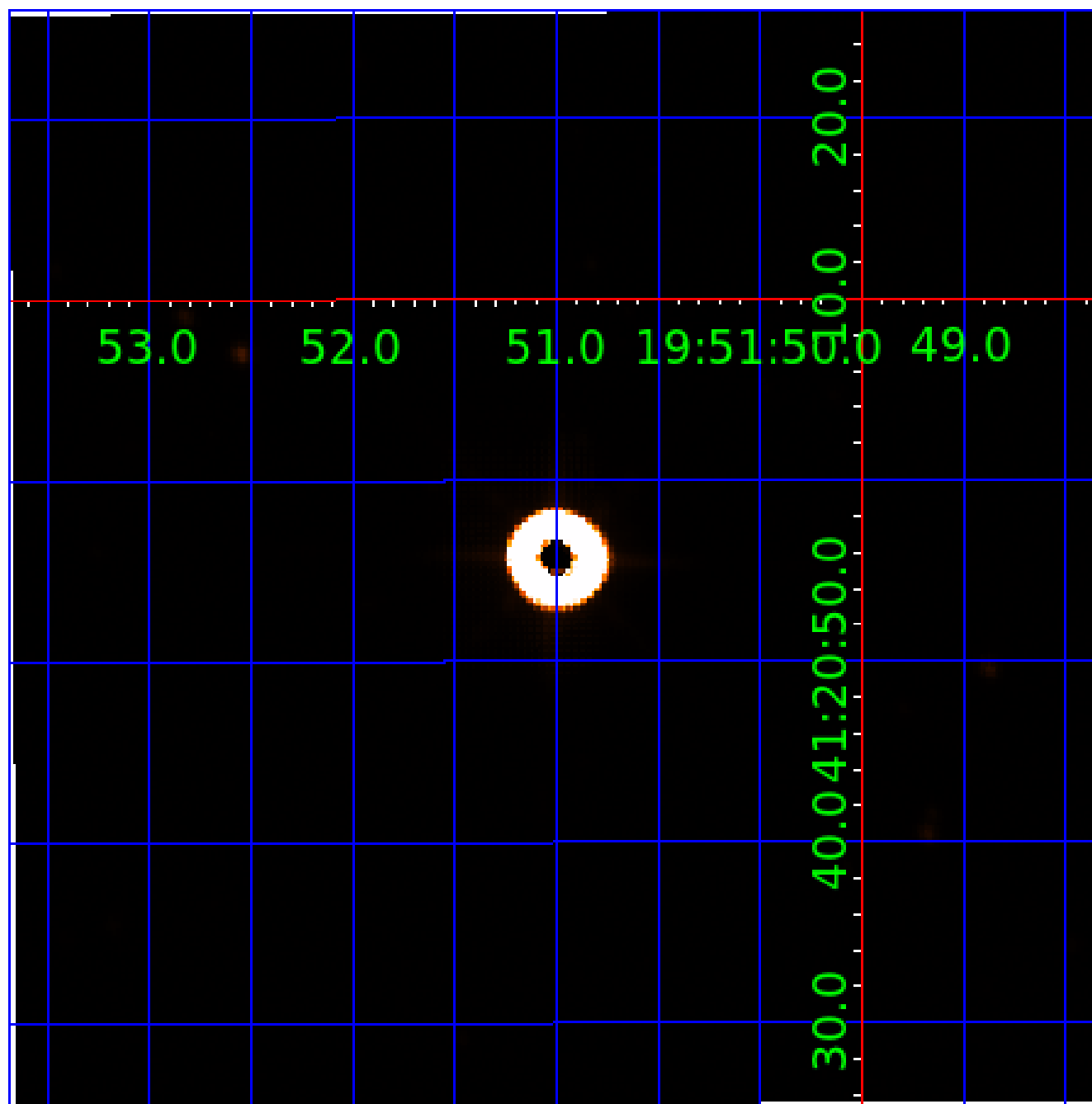


white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



UKIRT Image

Declination





# KIC 006065699

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
006065699-01	OBS	No	1.329134	132.814552	8.6	4.657	17.6	9.5	2.86	11063	0.96	94674.84
006065699-02	OBS	No	1.993593	132.910575	10.0	4.223	17.7	5.3	2.86	11063	1.03	55141.35
006065699-03	OBS	No	1.329093	131.925777	29.4	3.000	12.7	-1.0	2.86	11063	1.60	94678.71
006065699-04	OBS	No	194.280928	178.645688	393.7	23.467	12.3	13.1	2.86	11063	6.64	122.96
006065699-05	OBS	No	1.993660	131.612942	22.3	5.898	11.8	11.2	2.86	11063	1.45	55138.90

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006065699-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006065699-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE_ZUMA_TRACKER—TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_SATURATED
006065699-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
006065699-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
006065699-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED

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

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

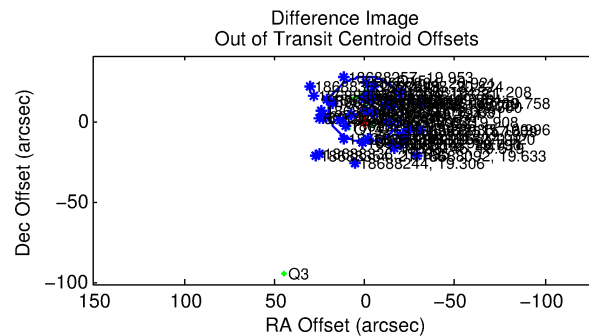
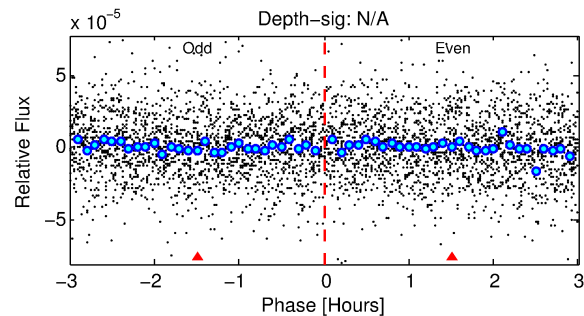
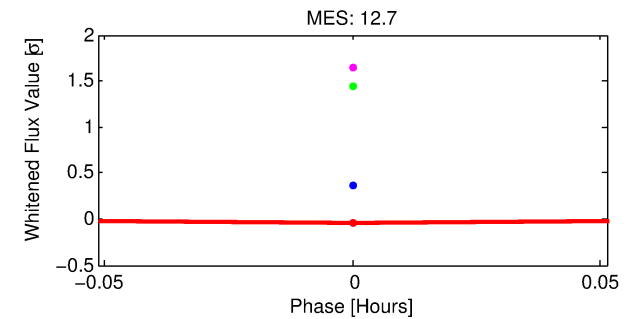
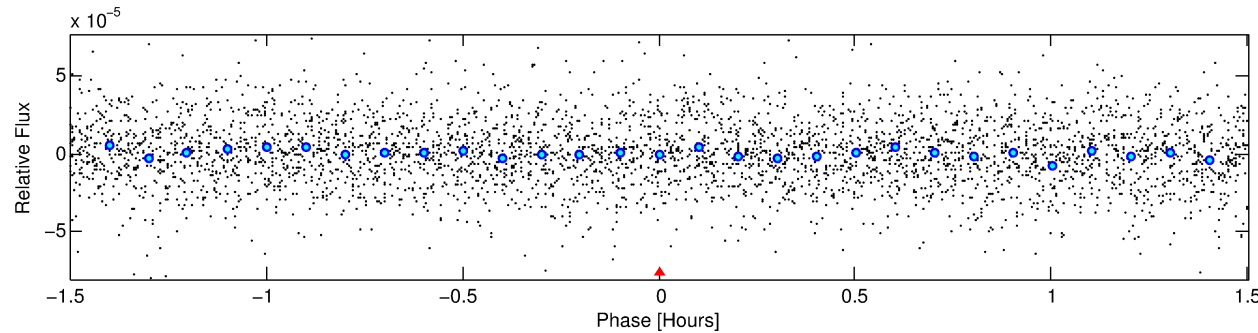
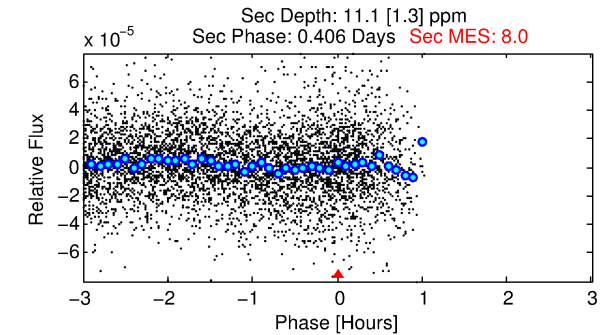
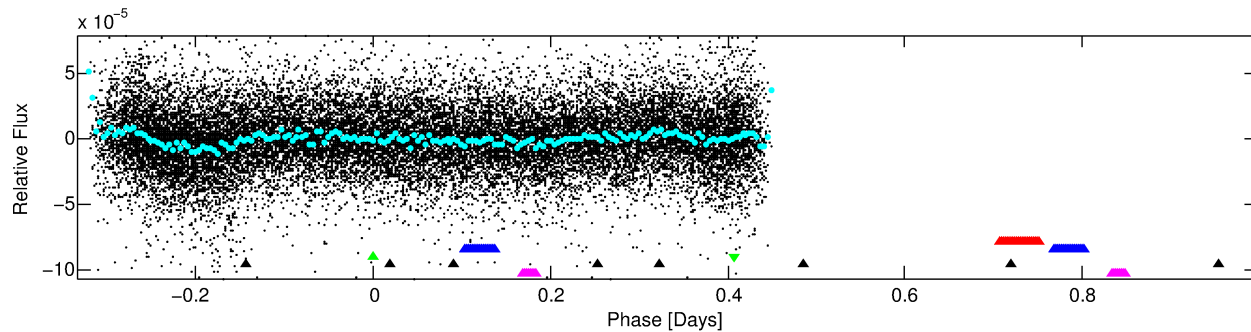
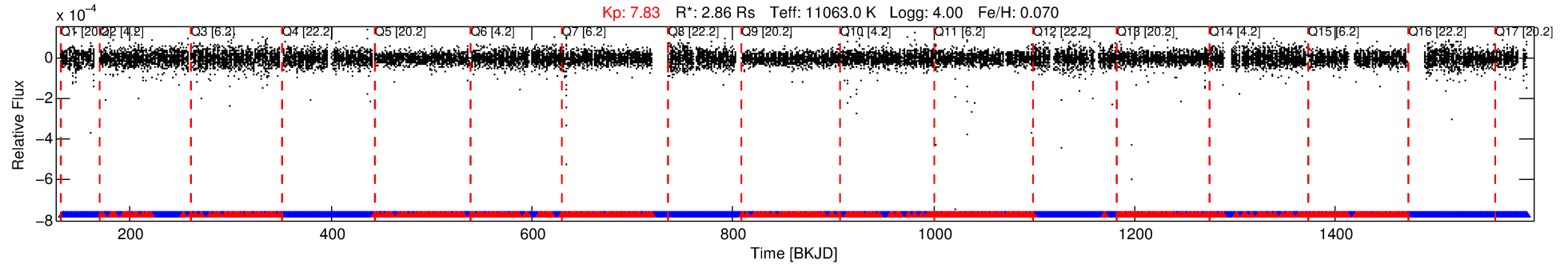
See [http://exoplanetarchive.ipac.caltech.edu/docs/API\\_kepcandidate\\_columns.html#proj\\_disp\\_col](http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col) for comment definitions.

## Ephemeris Match Information For 006065699-03

No Significant Match Found

# DV One-Page Summary

KIC: 6065699 Candidate: 3 of 5 Period: 1.329 d



## TPS TCE Results:

Period = 1.32909 d  
Epoch = 131.9258 BKJD

DV fit results are unavailable

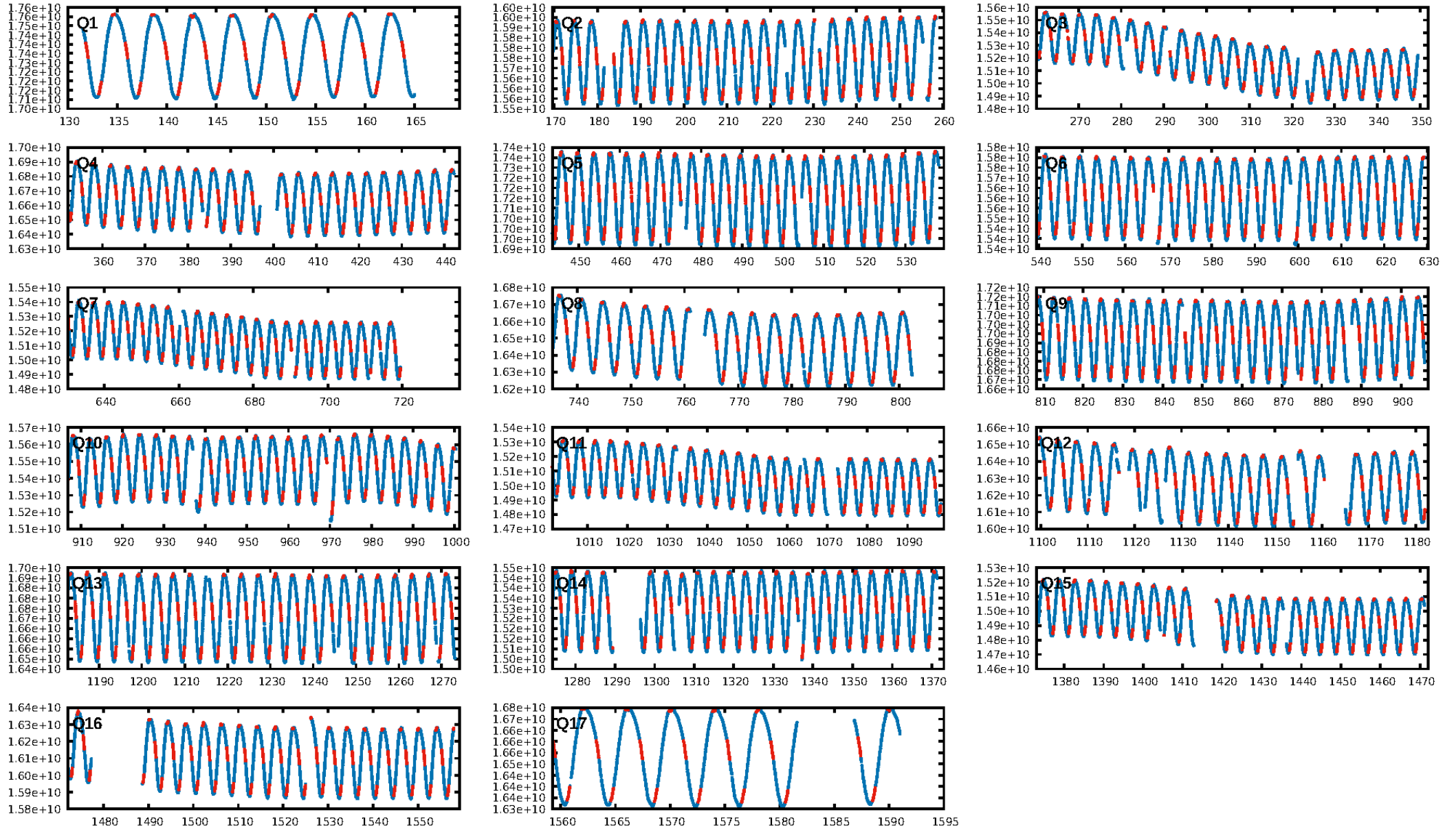
## DV Diagnostic Results:

ShortPeriod-sig: N/A  
LongPeriod-sig: 0.0% [0.00σ]  
ModelChiSquare2-sig: N/A  
ModelChiSquareGof-sig: N/A  
Bootstrap-pfa: 2.10e-16  
RollingBand-fgt: 0.42 [267/639]  
GhostDiagnostic-chr: N/A  
Centroid-sig: N/A  
Centroid-so: N/A  
OotOffset-rm: 7.196 arcsec [1.06σ]  
KicOffset-rm: 7.418 arcsec [1.15σ]  
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]

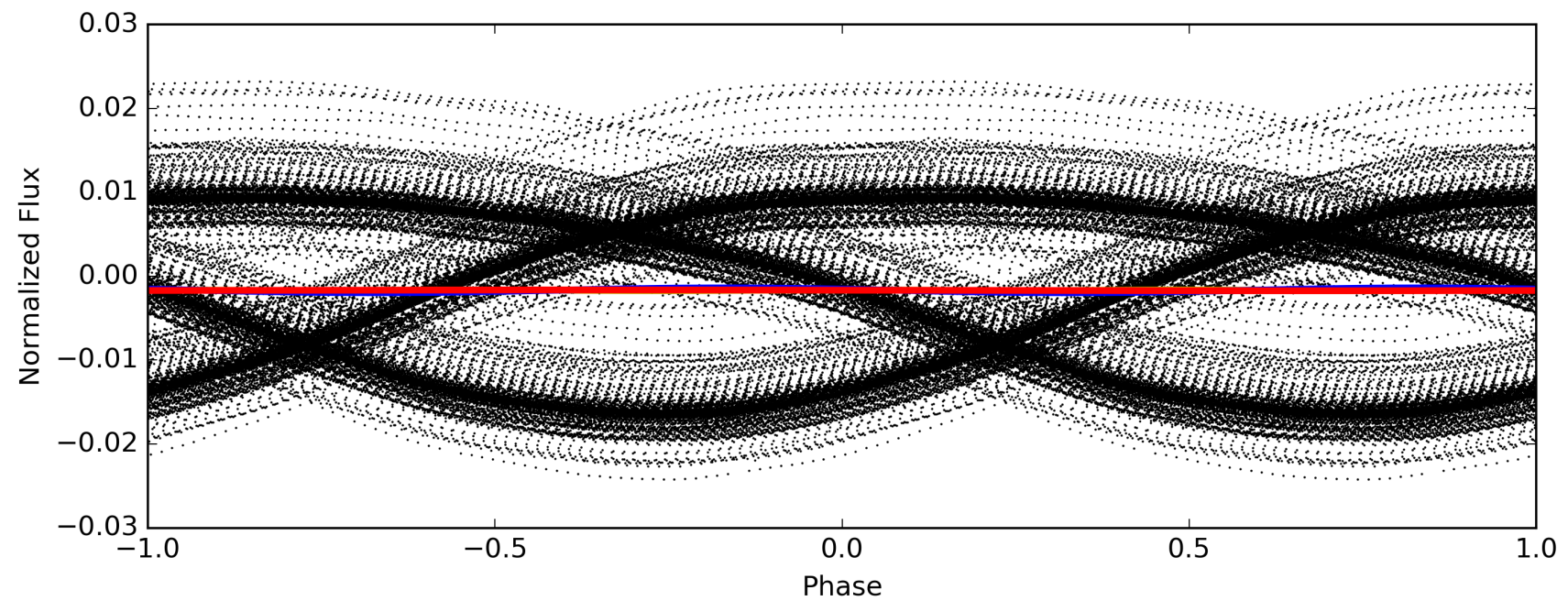
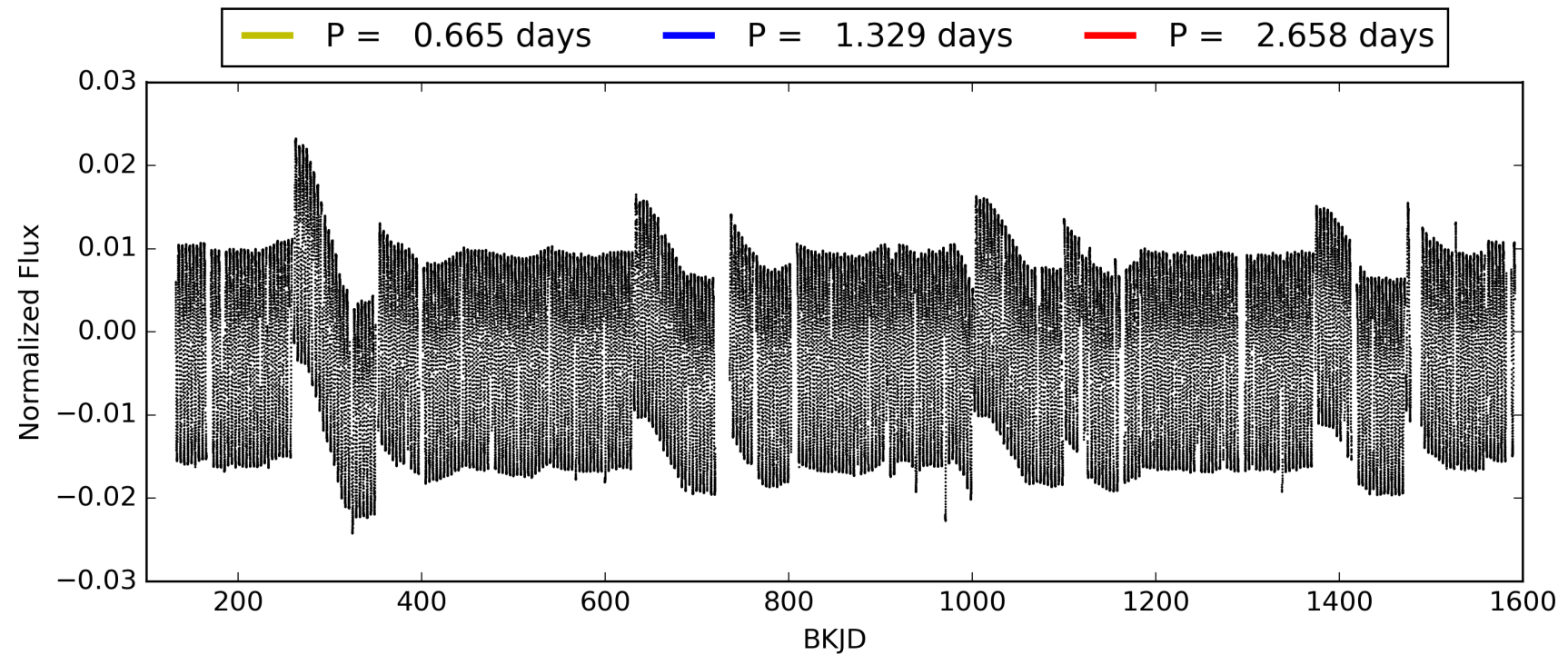
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 15:31:38 Z

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

# TCE 006065699-03, PDC Light Curves



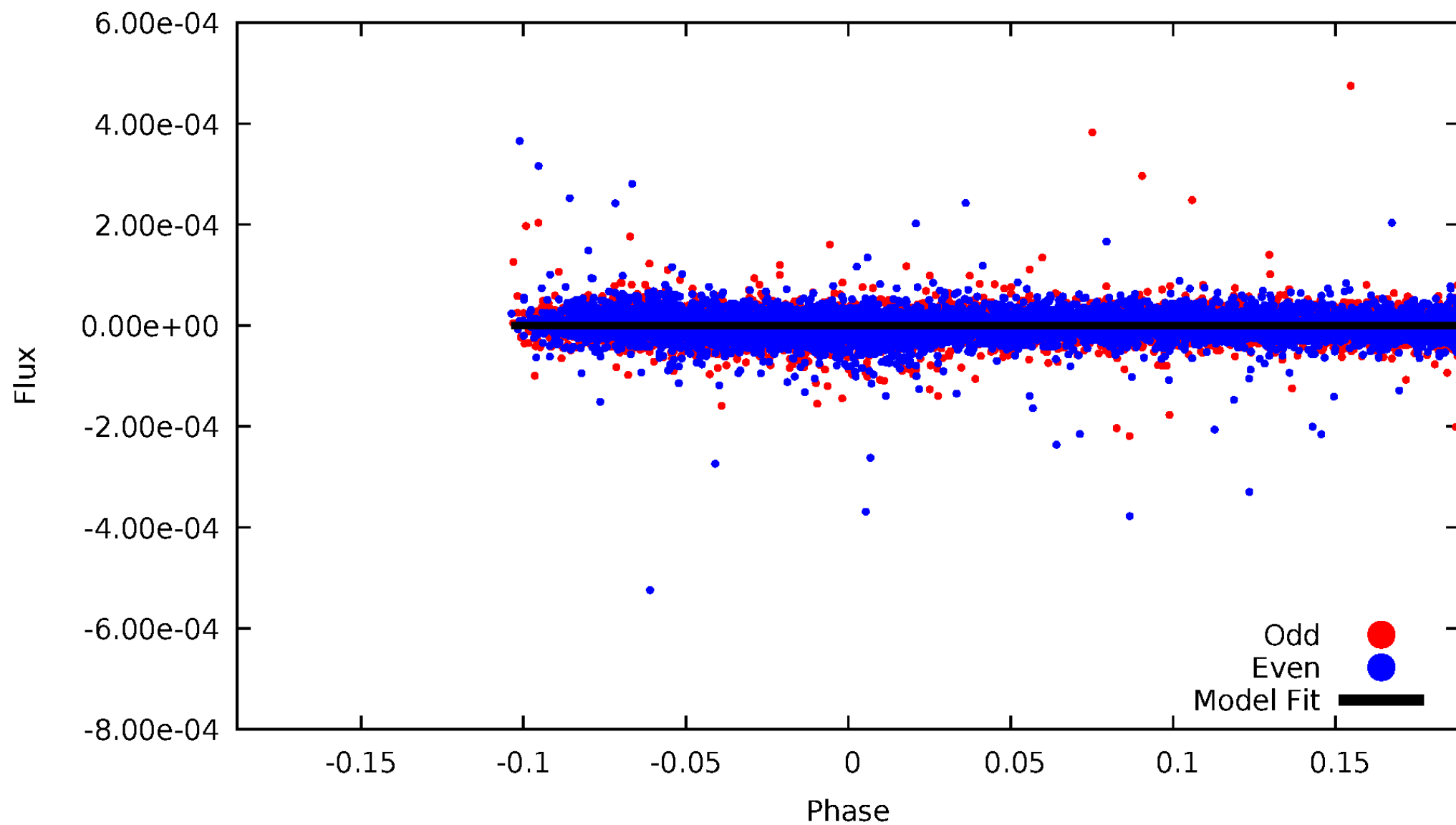
TCE 006065699-03





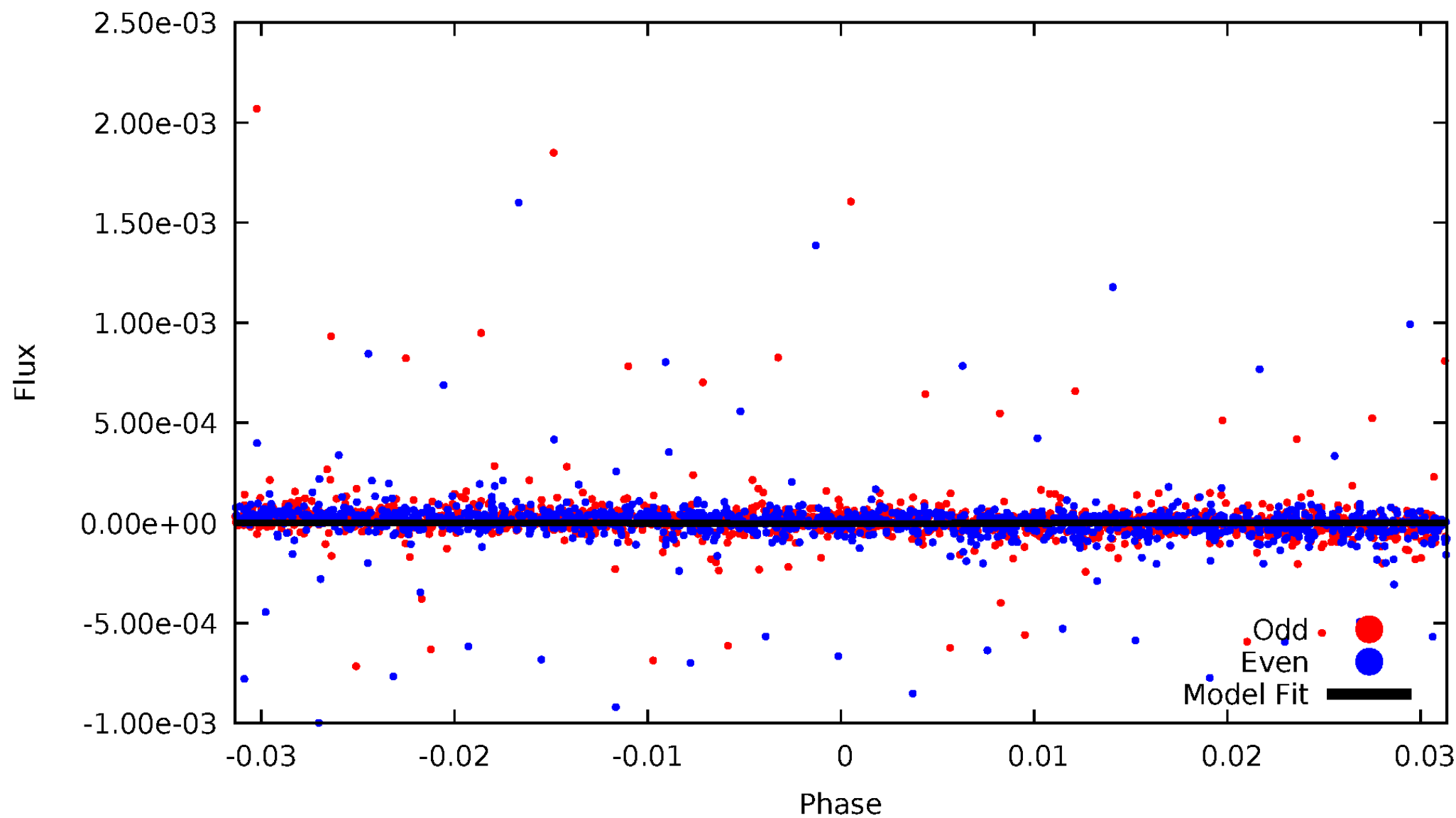
# DV Odd/Even

TCE 006065699-03



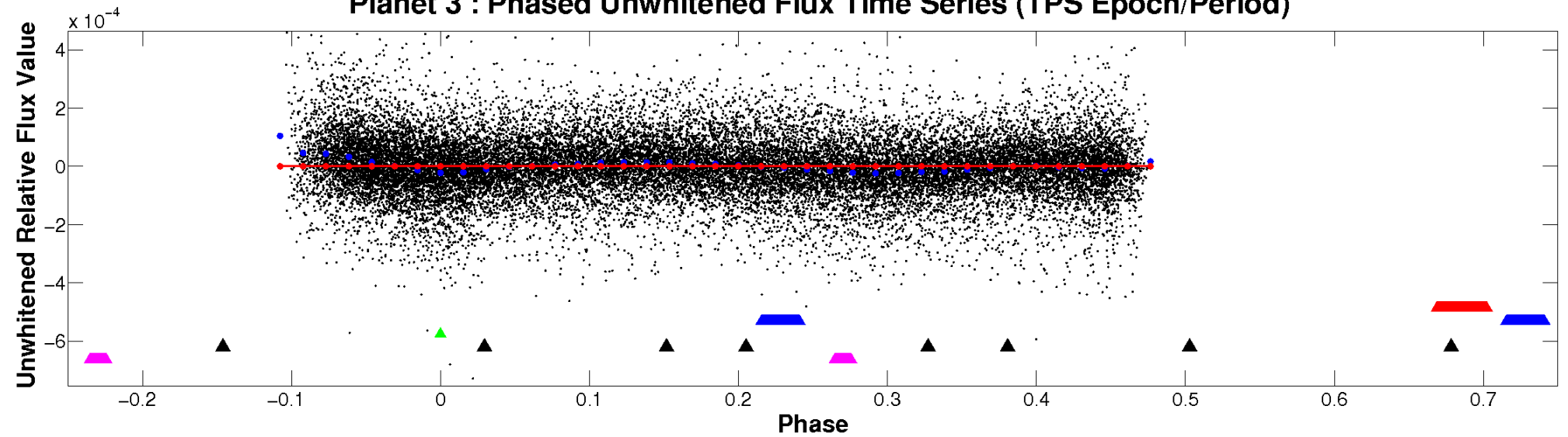
# ALT Odd/Even

TCE 006065699-03

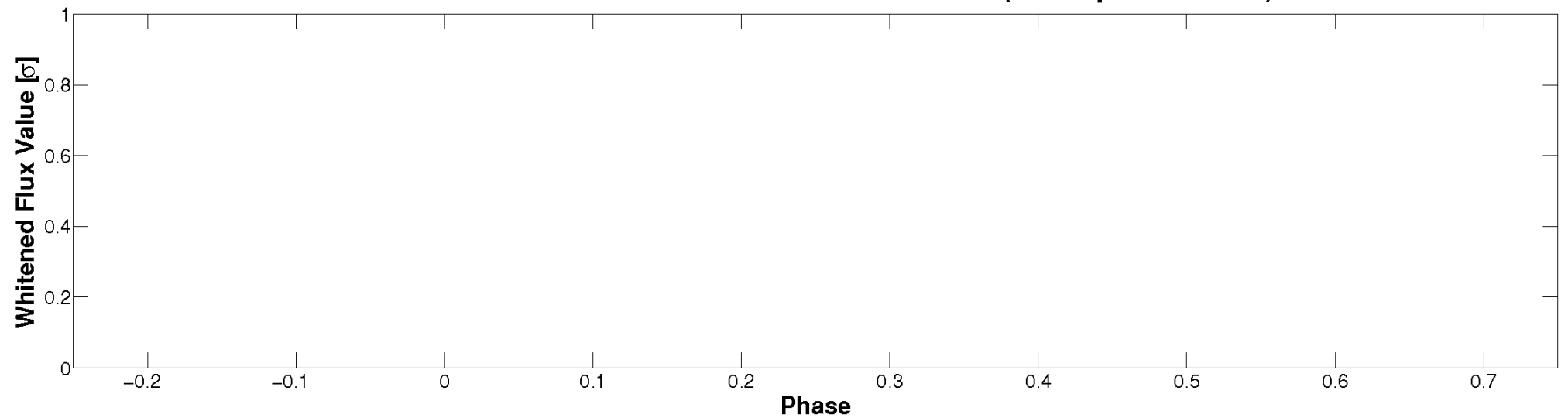


# Non-Whitened Vs. Whitened Light Curve

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

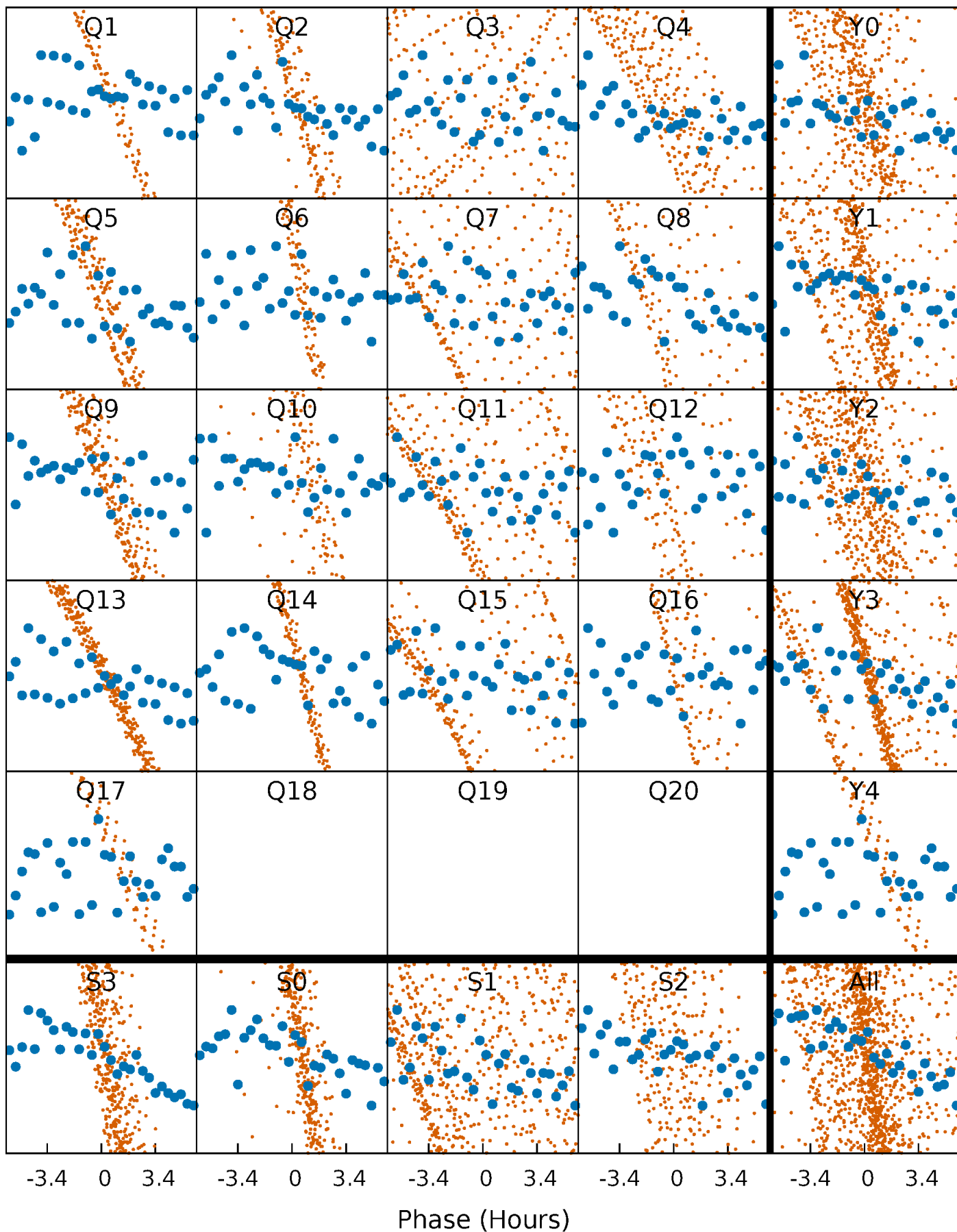


**Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)**



# PDC Quarter-Phased Transit Curves

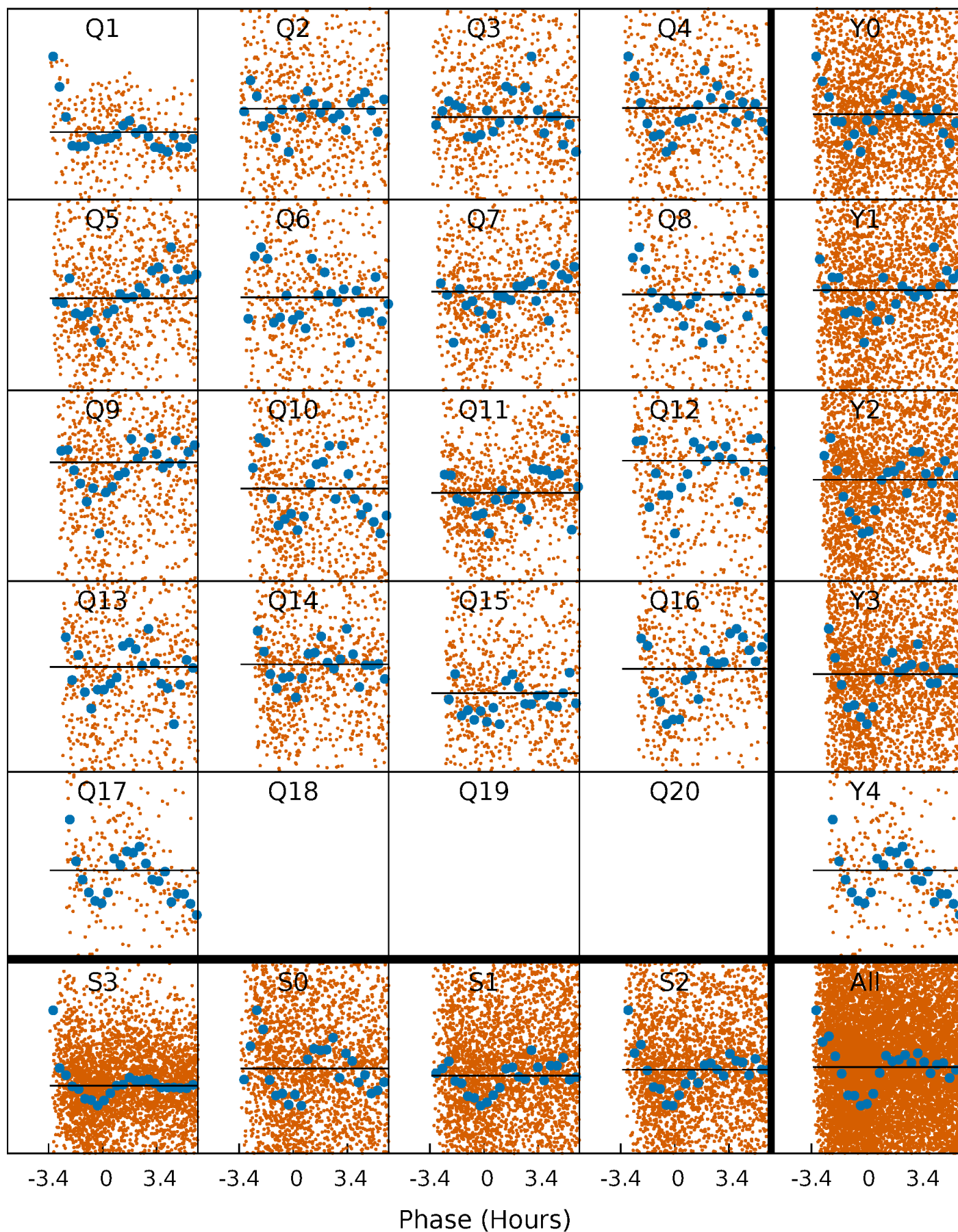
TCE 006065699-03 P= 1.329093 Days  $T_0=131.925777$  (BKJD)





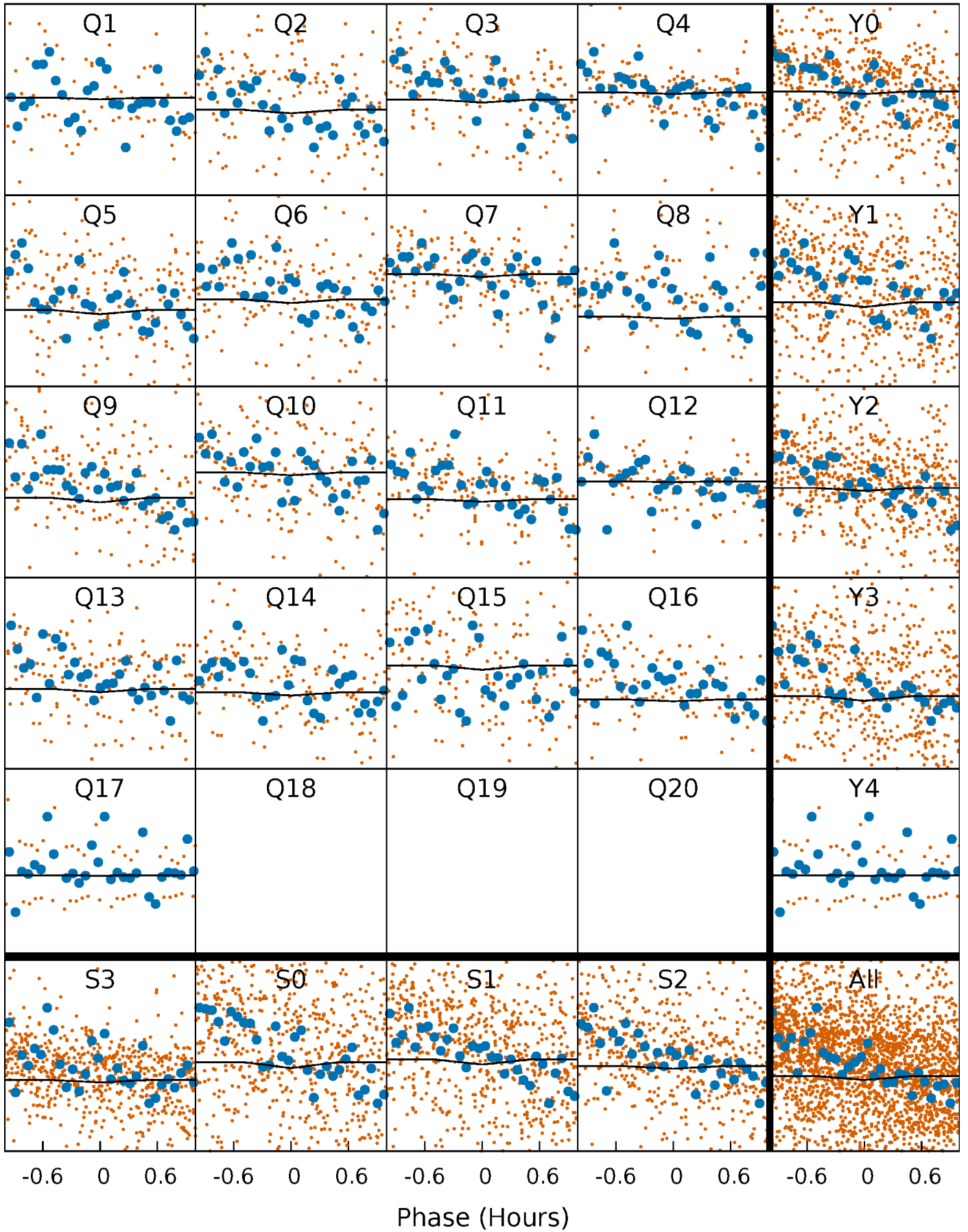
# DV Quarter-Phased Transit Curves

TCE 006065699-03   P= 1.329093 Days    $T_0=131.925777$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

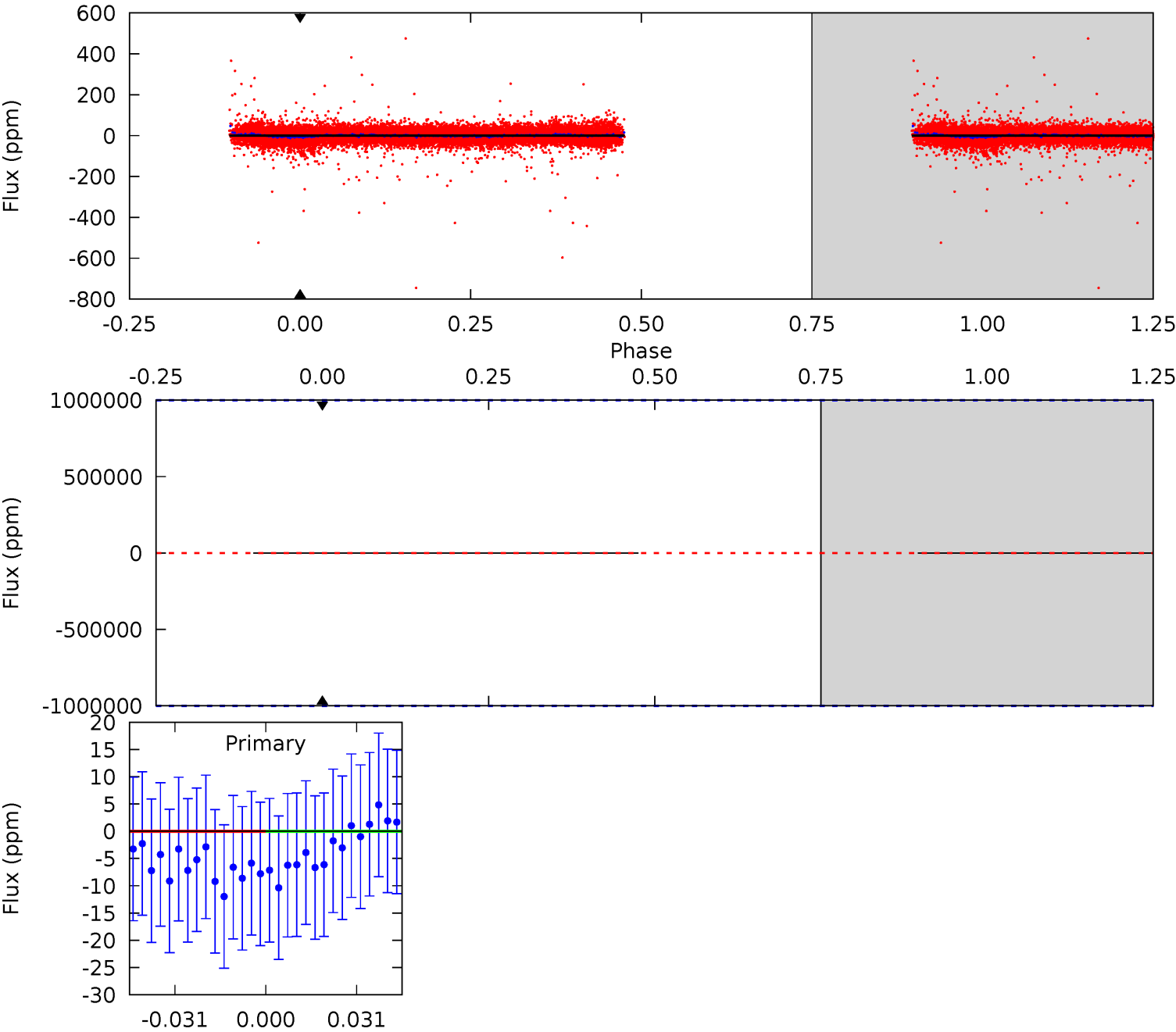
TCE 006065699-03 P= 1.329093 Days  $T_0=132.108203$  (BKJD)



DV Model-Shift Uniqueness Test

006065699-03, P = 1.329093 Days, E = 130.596684 Days

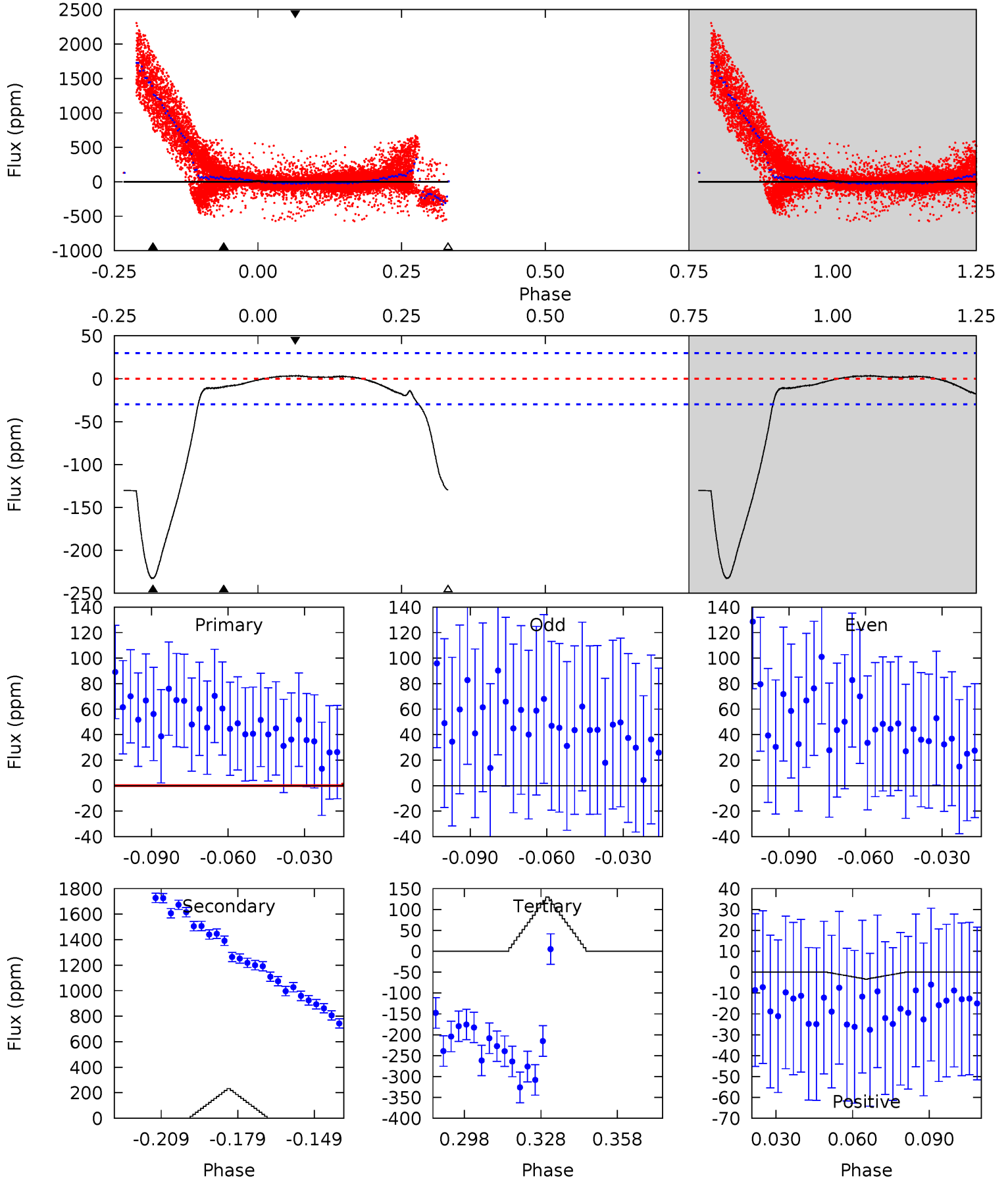
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



# Alt Model-Shift Uniqueness Test

006065699-03, P = 1.329093 Days, E = 130.779110 Days

Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.53	37.6	21.0	0.54	4.81	2.17	4.89	-19.4	0.99	16.6	37.1	0.26	0.69	0.01	0.47





### Stellar Parameters For KIC 006065699

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R$ ( $R_{\odot}$ )	$M(M_{\odot})$	$p_{\star}$ ( $\text{g}\cdot\text{cm}^{-3}$ )
	$11063^{+353}_{-530}$	$3.999^{+0.266}_{-0.143}$	$0.070^{+0.050}_{-0.650}$	$2.857^{+0.654}_{-0.981}$	$2.966^{+0.189}_{-0.754}$	$0.179^{+0.326}_{-0.077}$
	+3%/-5%	+7%/-4%	+71%/-929%	+23%/-34%	+6%/-25%	+182%/-43%
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 006065699-03 / KOI

Detrend	Depth (ppm)	$R_p$ ( $R_{\oplus}$ )	$T_{\text{max}}$ (K)	$T_{\text{obs}}$ (K)	$A_{\text{obs}}$
DV	$0 \pm 1000000$	$18.64^{+21.70}_{-12.94}$	$6099^{+486}_{-557}$	$-3857^{+130521}_{-120018}$	$0.158^{+336.938}_{-315.724}$
Alt.	$-233 \pm 6$	$20.37^{+23.83}_{-13.89}$	$6154^{+468}_{-586}$	$3239^{+4750}_{-7675}$	$0.349^{+2.797}_{-0.276}$

$T_{\text{max}}$  = Theoretical Maximum Planetary Temperature

$T_{\text{obs}}$  = Observed Planetary Temperature (Assuming  $A=0.3$ )

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

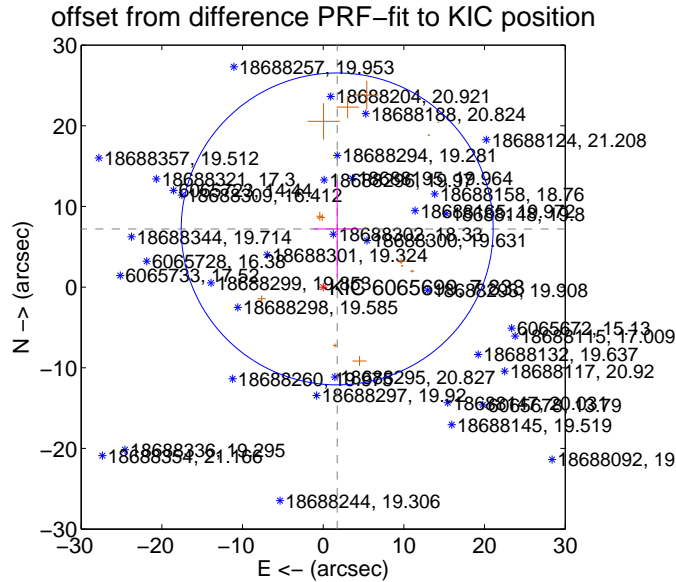
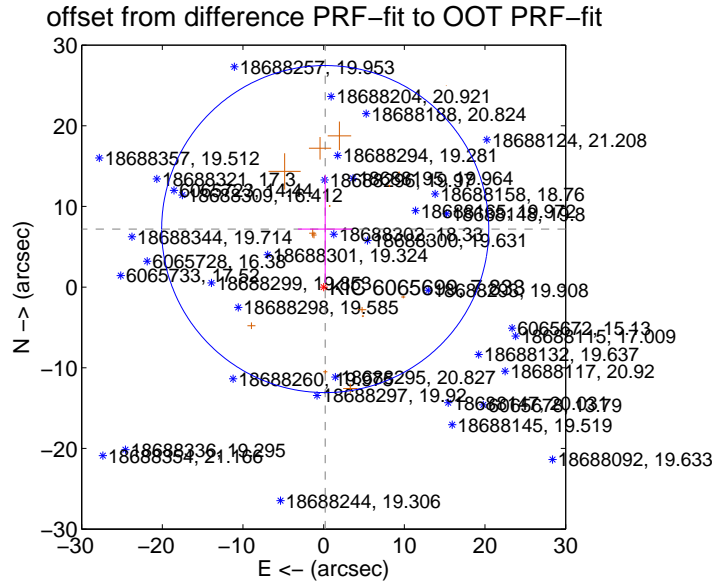
## DV Centroid Data

Supplemental centroid analysis for 006065699-03. **Kepler magnitude: 7.83.** Transit SNR -1.00

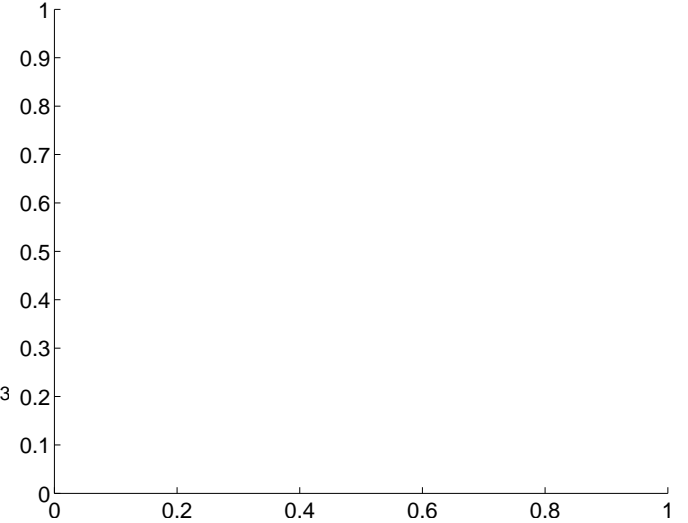
There are 0 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 7.99 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	$7.196 \pm 6.757$	1.06	$-0.193 \pm 3.380$	$7.193 \pm 6.681$
PRF-fit source offset from KIC position	$7.418 \pm 6.444$	1.15	$-1.735 \pm 2.937$	$7.212 \pm 6.025$
photometric centroid source offset	—	—	—	—

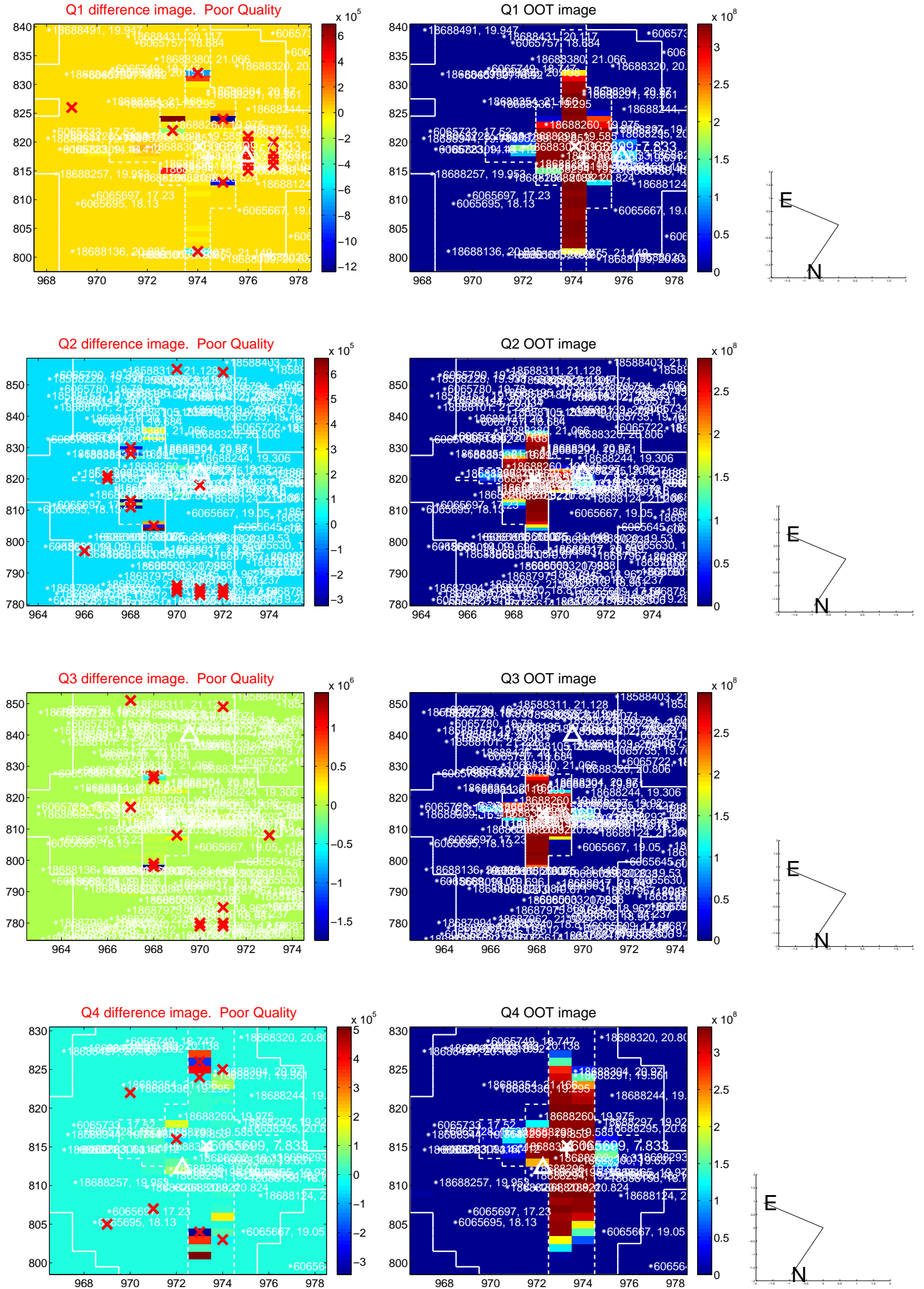


There are no photometric centroids

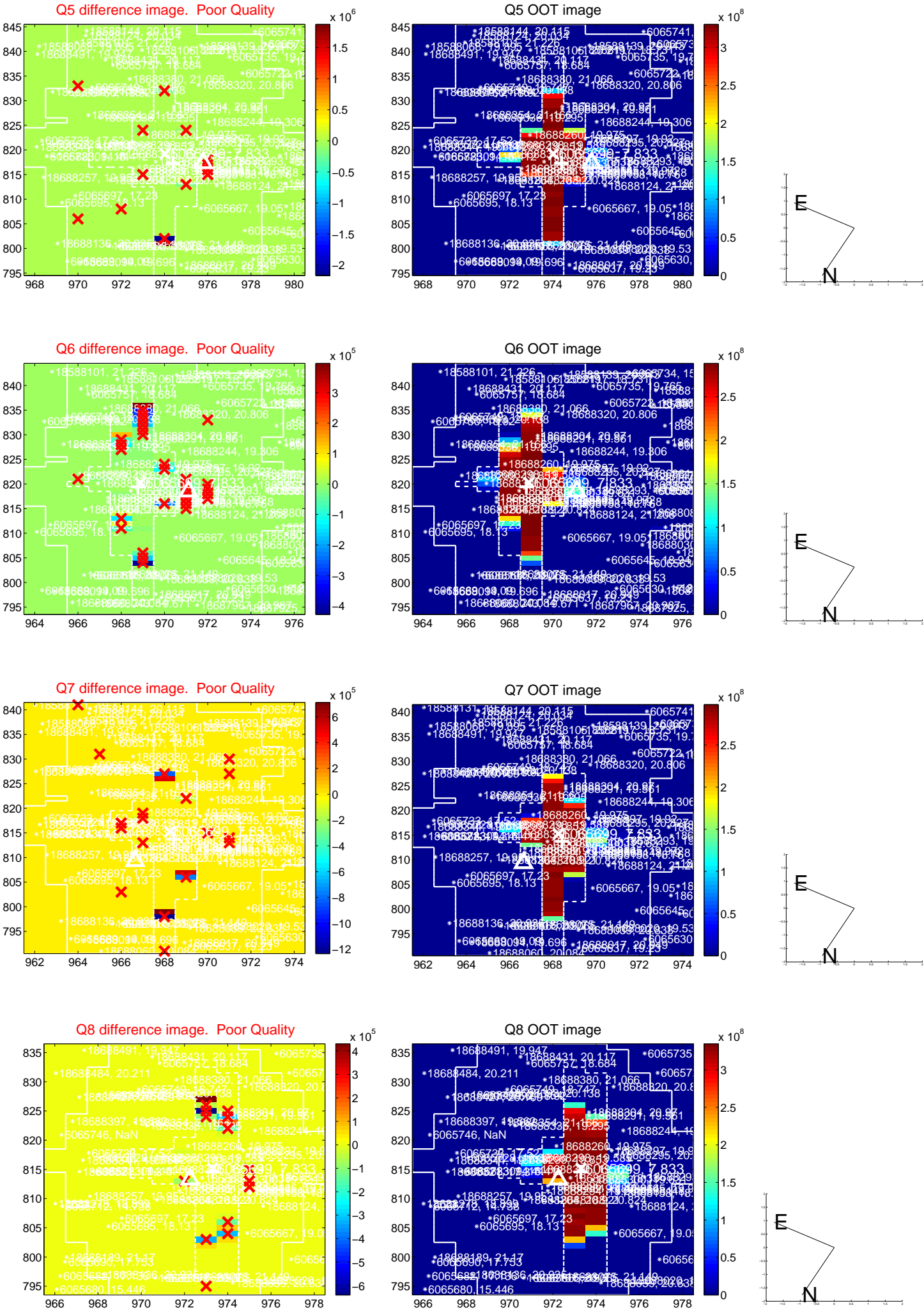


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: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

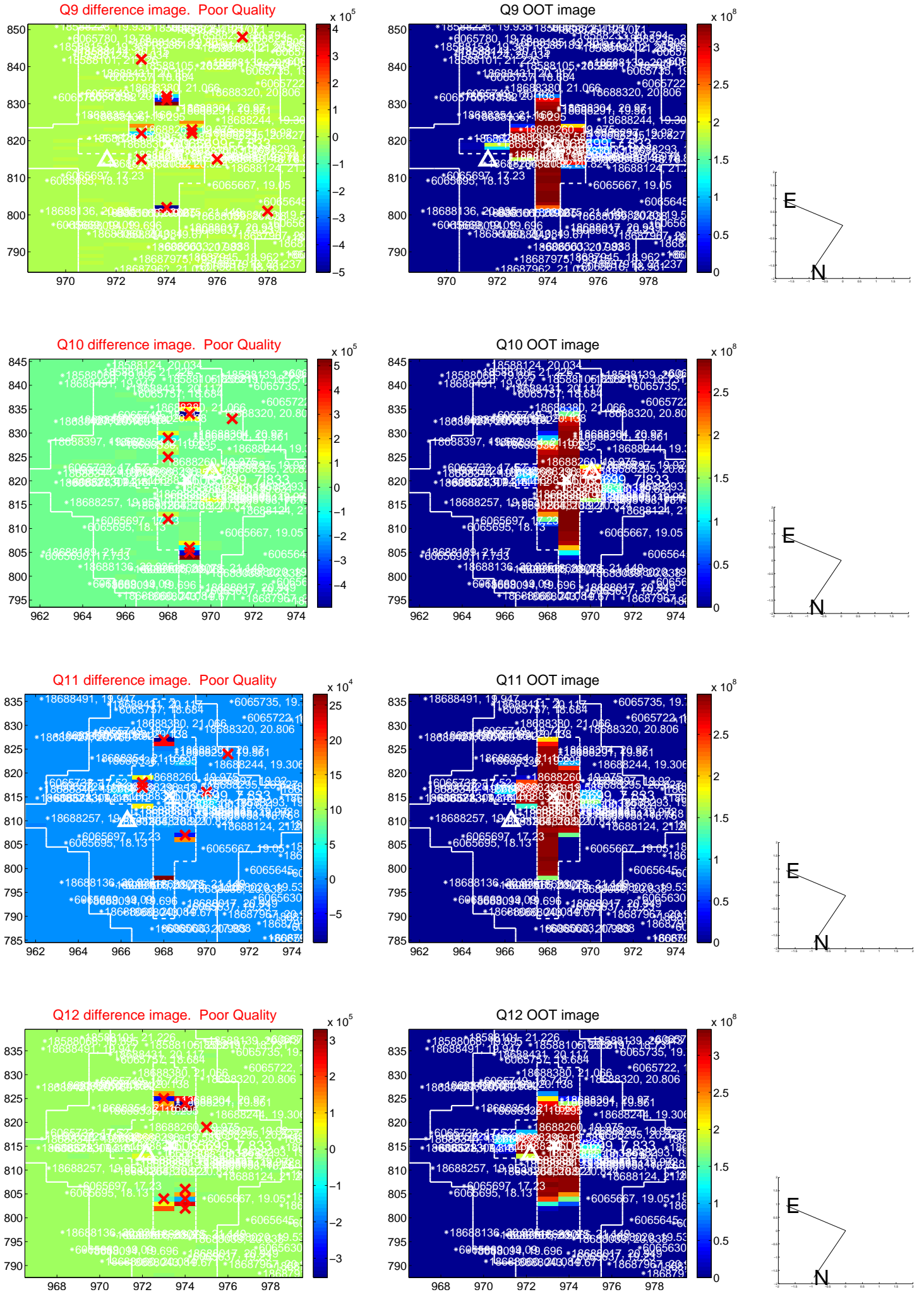


white  $\times$ : KIC target position; +: OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.

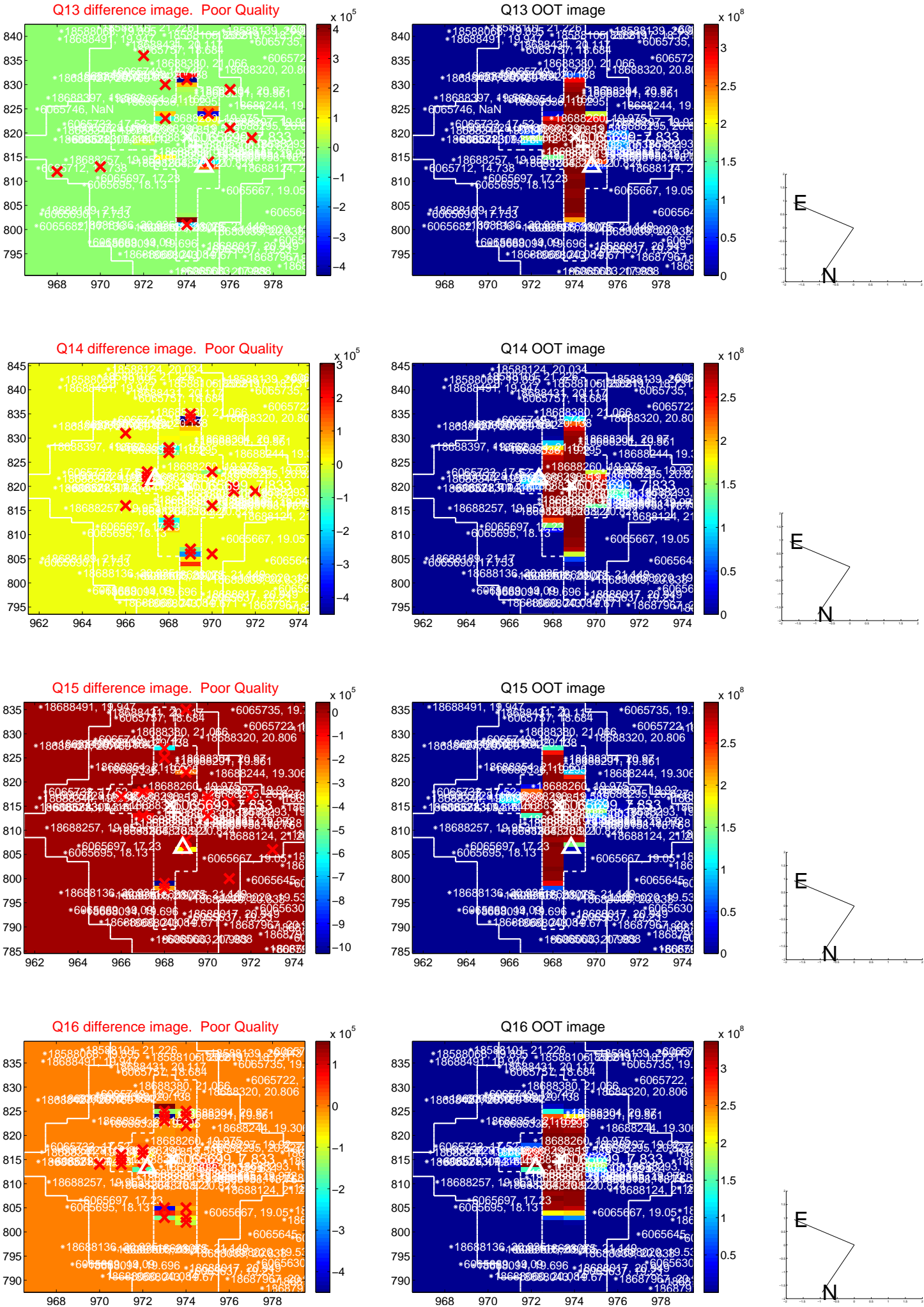




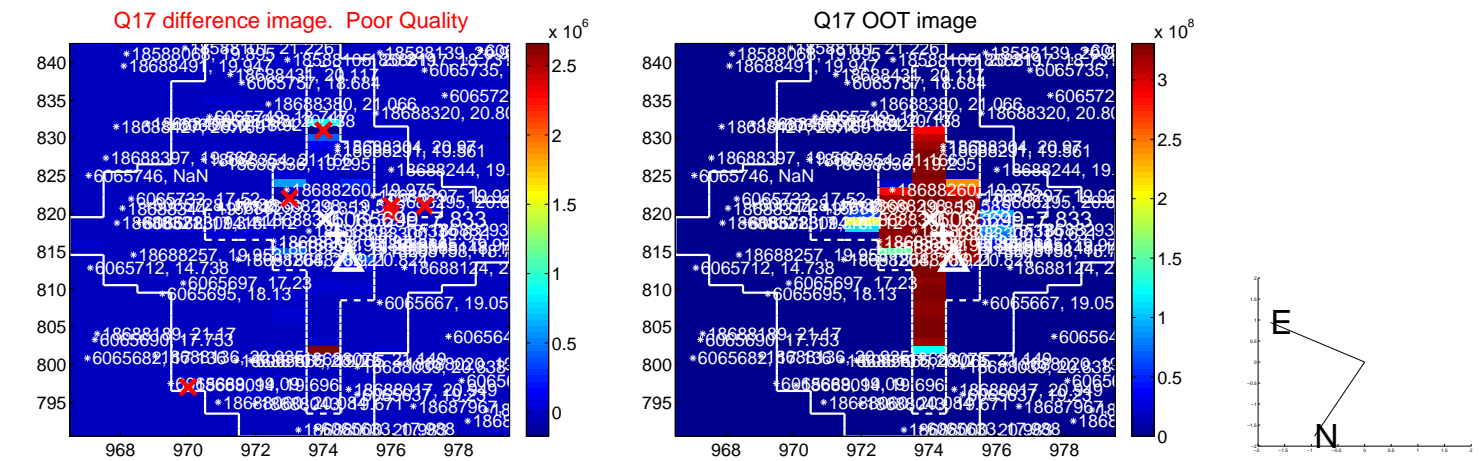
white  $\times$ : KIC target position; +: OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



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

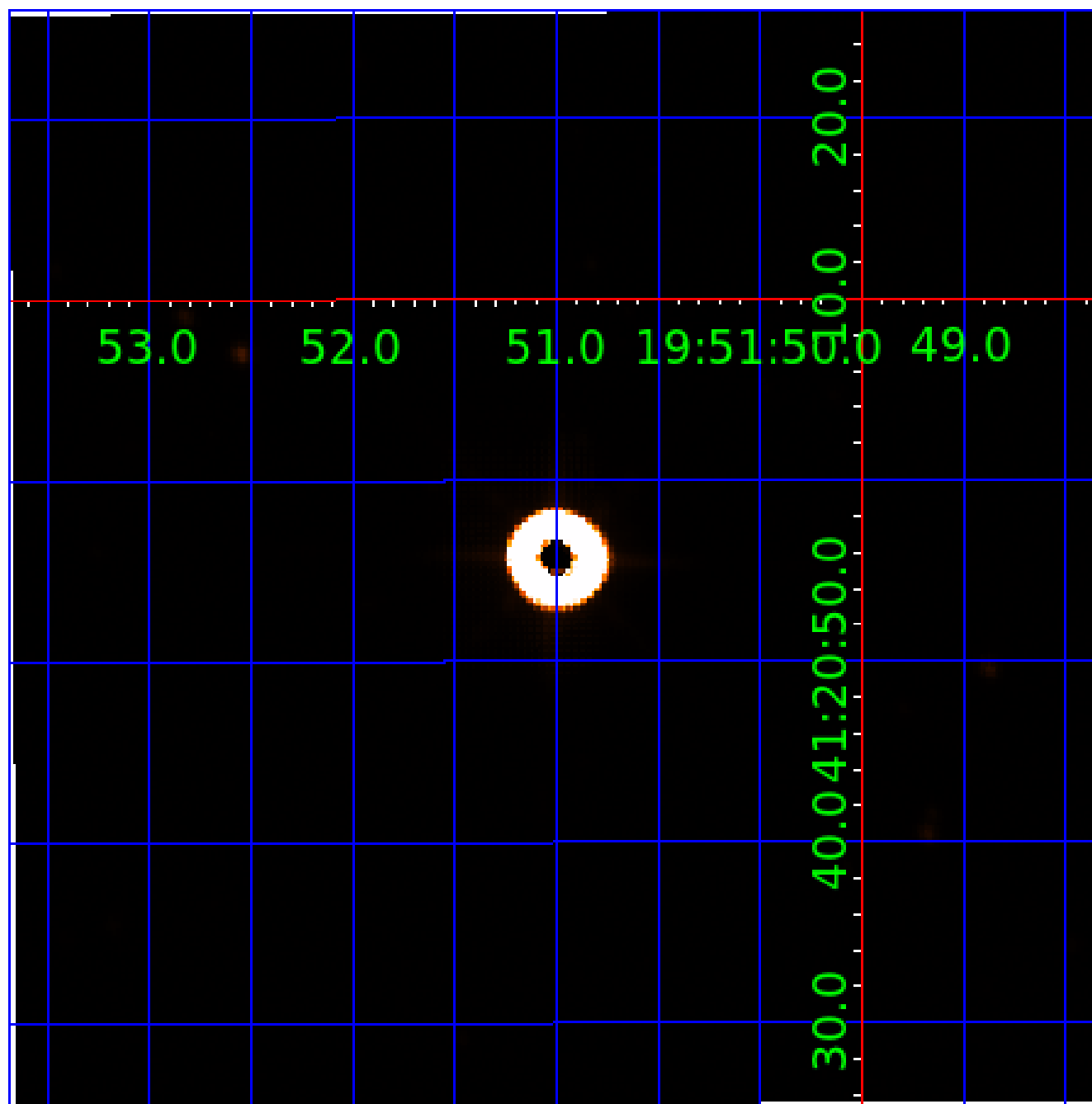


white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



UKIRT Image

Declination





# KIC 006065699

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
006065699-01	OBS	No	1.329134	132.814552	8.6	4.657	17.6	9.5	2.86	11063	0.96	94674.84
006065699-02	OBS	No	1.993593	132.910575	10.0	4.223	17.7	5.3	2.86	11063	1.03	55141.35
006065699-03	OBS	No	1.329093	131.925777	29.4	3.000	12.7	-1.0	2.86	11063	1.60	94678.71
006065699-04	OBS	No	194.280928	178.645688	393.7	23.467	12.3	13.1	2.86	11063	6.64	122.96
006065699-05	OBS	No	1.993660	131.612942	22.3	5.898	11.8	11.2	2.86	11063	1.45	55138.90

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006065699-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006065699-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE_ZUMA_TRACKER—TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_SATURATED
006065699-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
006065699-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
006065699-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED

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

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

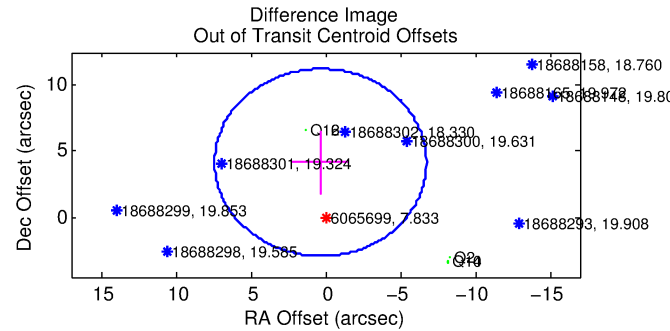
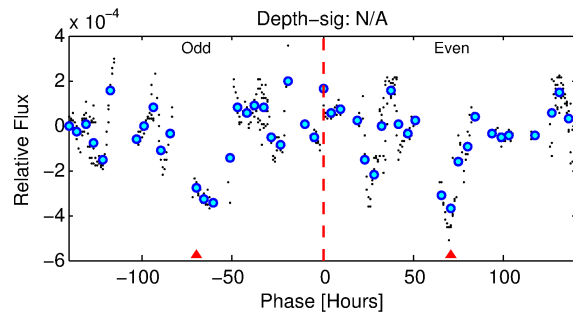
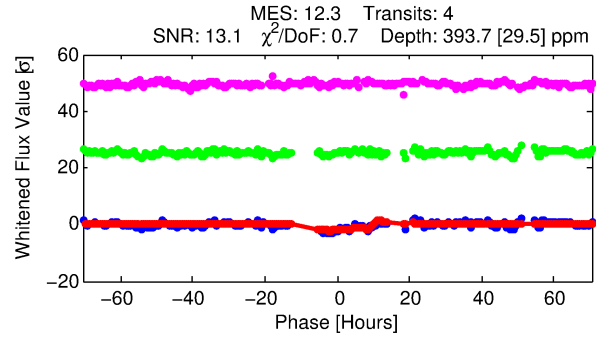
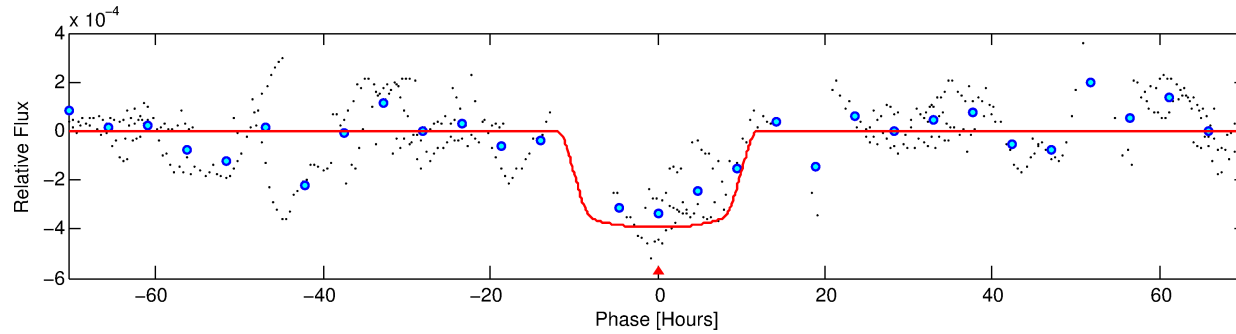
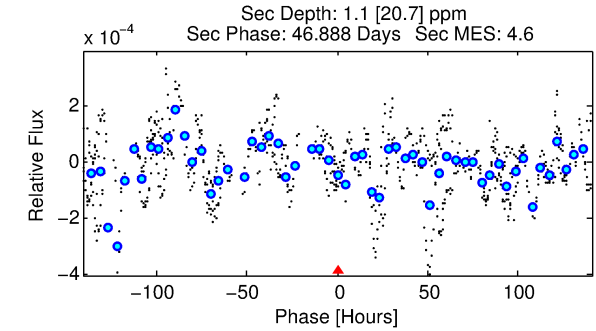
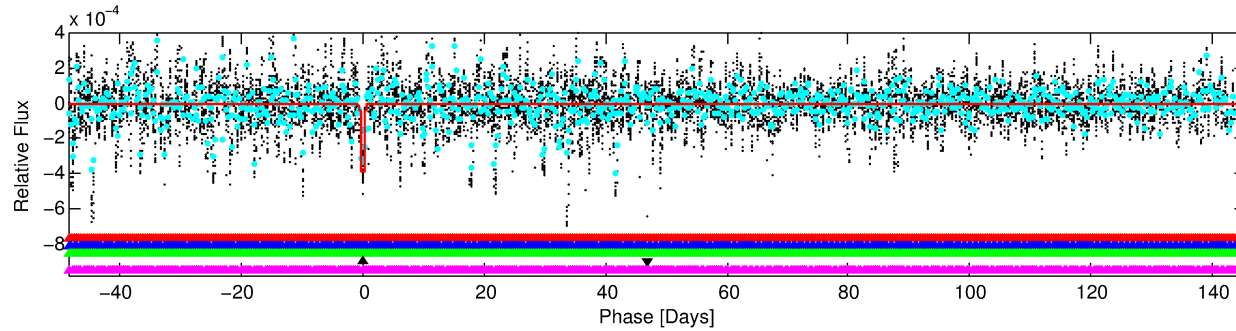
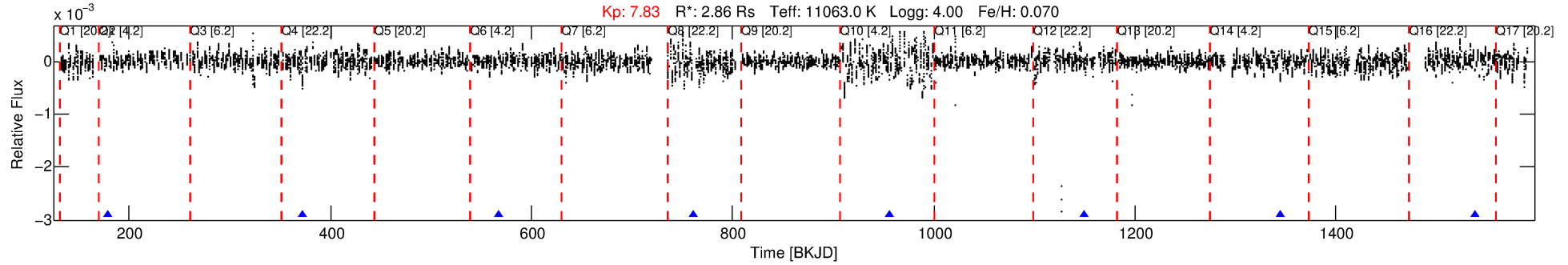
See [http://exoplanetarchive.ipac.caltech.edu/docs/API\\_kepcandidate\\_columns.html#proj\\_disp\\_col](http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col) for comment definitions.

Ephemeris Match Information For 006065699-04

No Significant Match Found

# DV One-Page Summary

KIC: 6065699 Candidate: 4 of 5 Period: 194.281 d



## DV Fit Results:

Period = 194.28093 [0.02301] d  
Epoch = 178.6457 [0.0994] BKJD  
Rp/R\* = 0.0213 [0.0008]  
a/R\* = 25.58 [3.06]  
b = 0.94 [0.02]  
Seff = 122.96 [62.19]  
Teq = 849 [107] K  
Rp = 6.64 [2.29] Re  
a = 0.9439 [0.2895] AU  
Ag = 12.09 [229.46] [0.05σ]  
Teff = 2448 [11613] K [0.14σ]

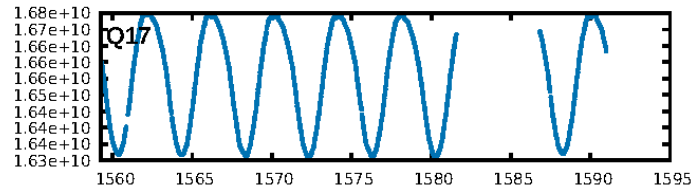
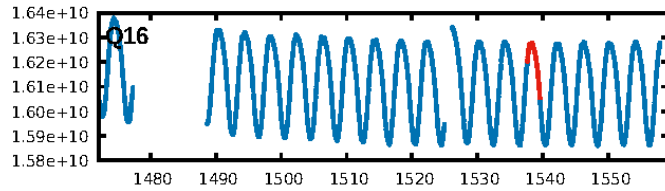
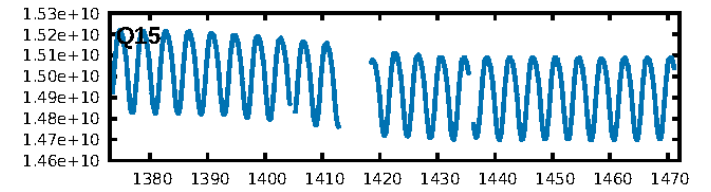
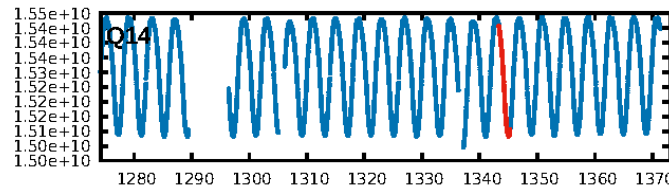
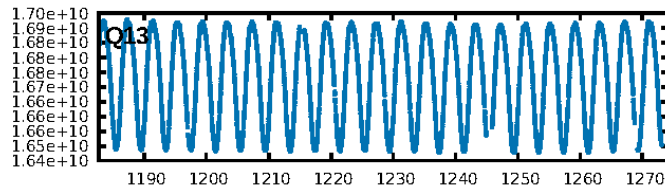
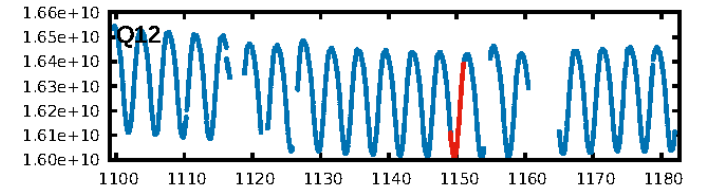
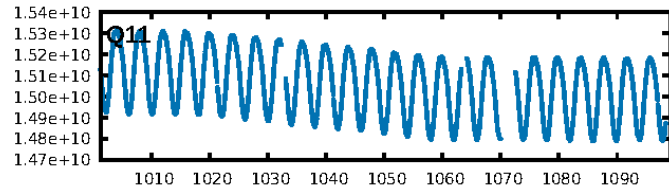
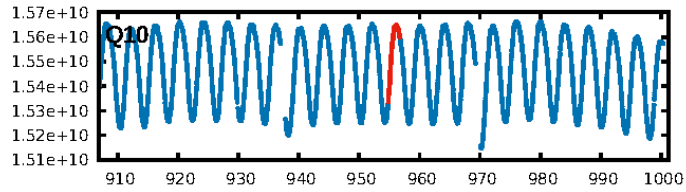
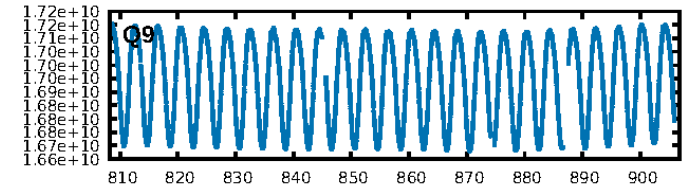
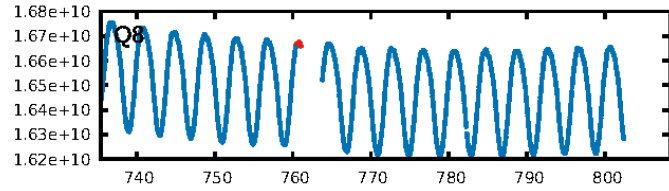
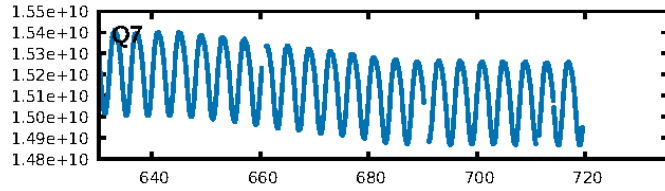
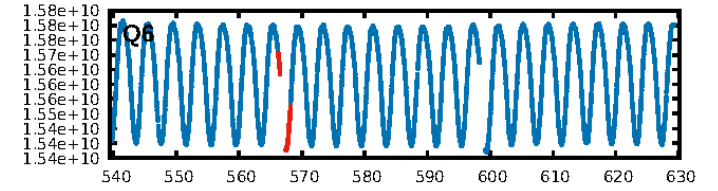
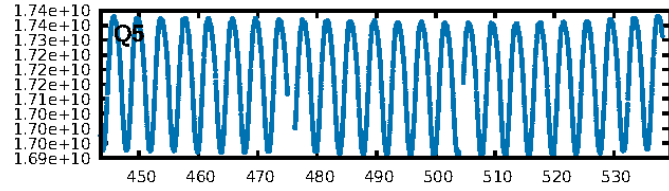
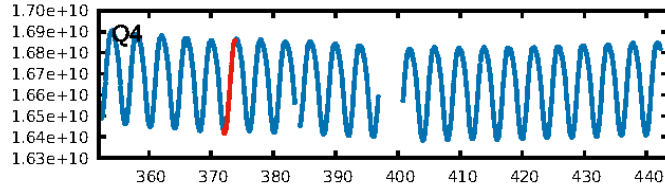
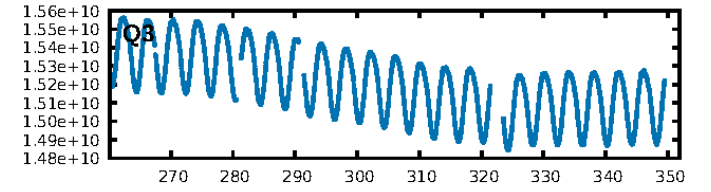
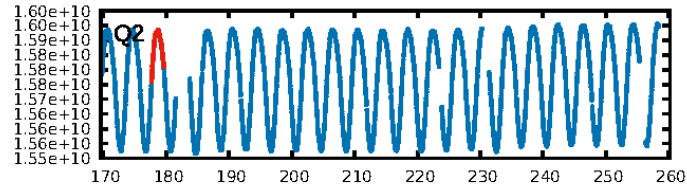
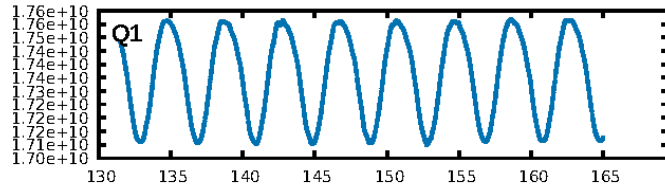
## DV Diagnostic Results:

ShortPeriod-sig: 100.0% [190.72σ]  
LongPeriod-sig: N/A  
ModelChiSquare2-sig: 0.0%  
ModelChiSquareGof-sig: 100.0%  
Bootstrap-pfa: 1.35e-08  
RollingBand-fgt: 1.00 [4/4]  
GhostDiagnostic-chr: N/A  
Centroid-sig: 27.4%  
Centroid-so: 9.621 arcsec [1.75σ]  
OotOffset-rm: 4.176 arcsec [1.77σ]  
OotOffset-st: 3/0/2/0 [5]  
KicOffset-rm: 6.420 arcsec [3.14σ]  
KicOffset-st: 3/0/2/0 [5]  
DiffImageQuality-fgm: 0.00 [0/5]  
DiffImageOverlap-fno: 0.00 [0/5]

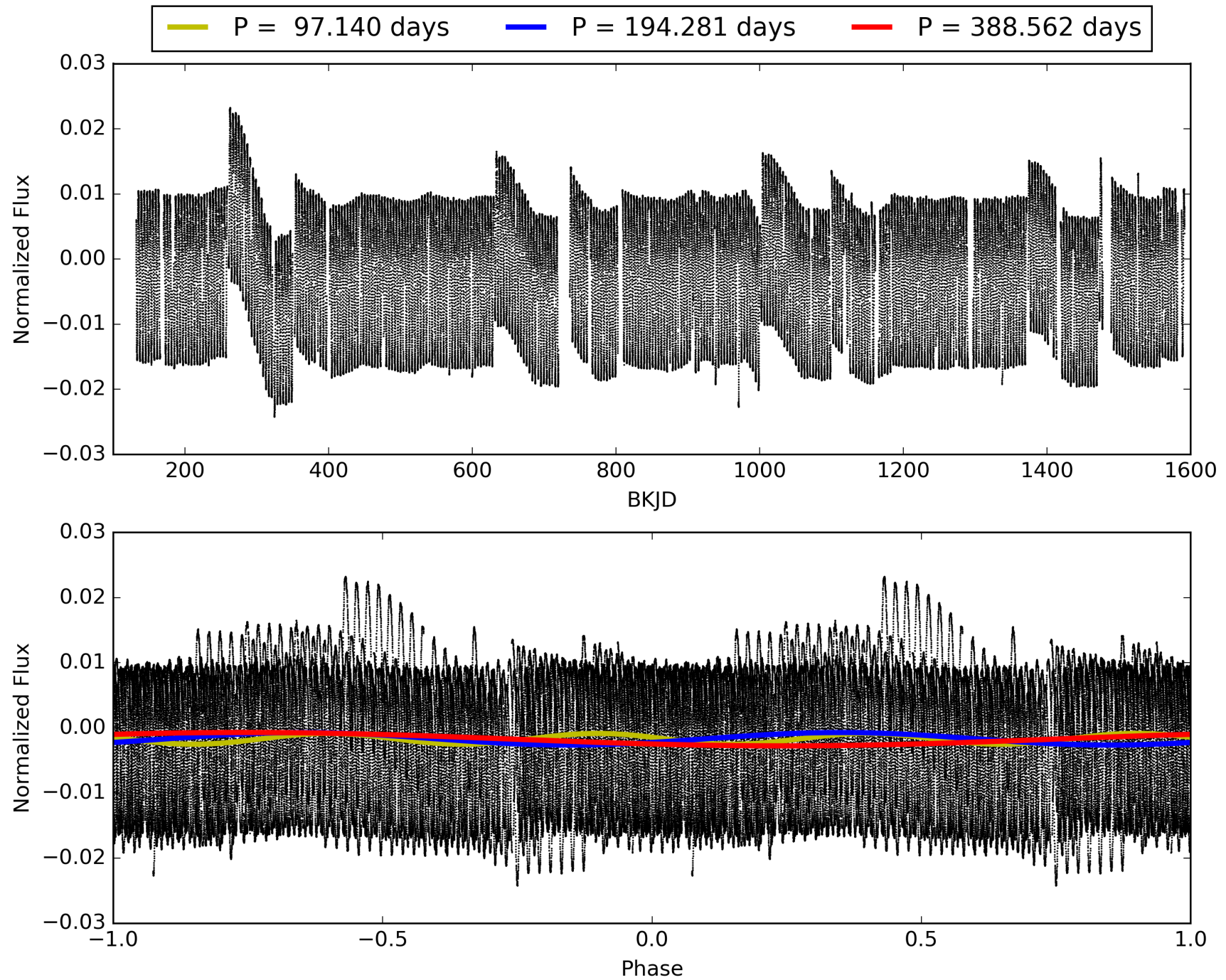
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 15:31:43 Z

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

# TCE 006065699-04, PDC Light Curves



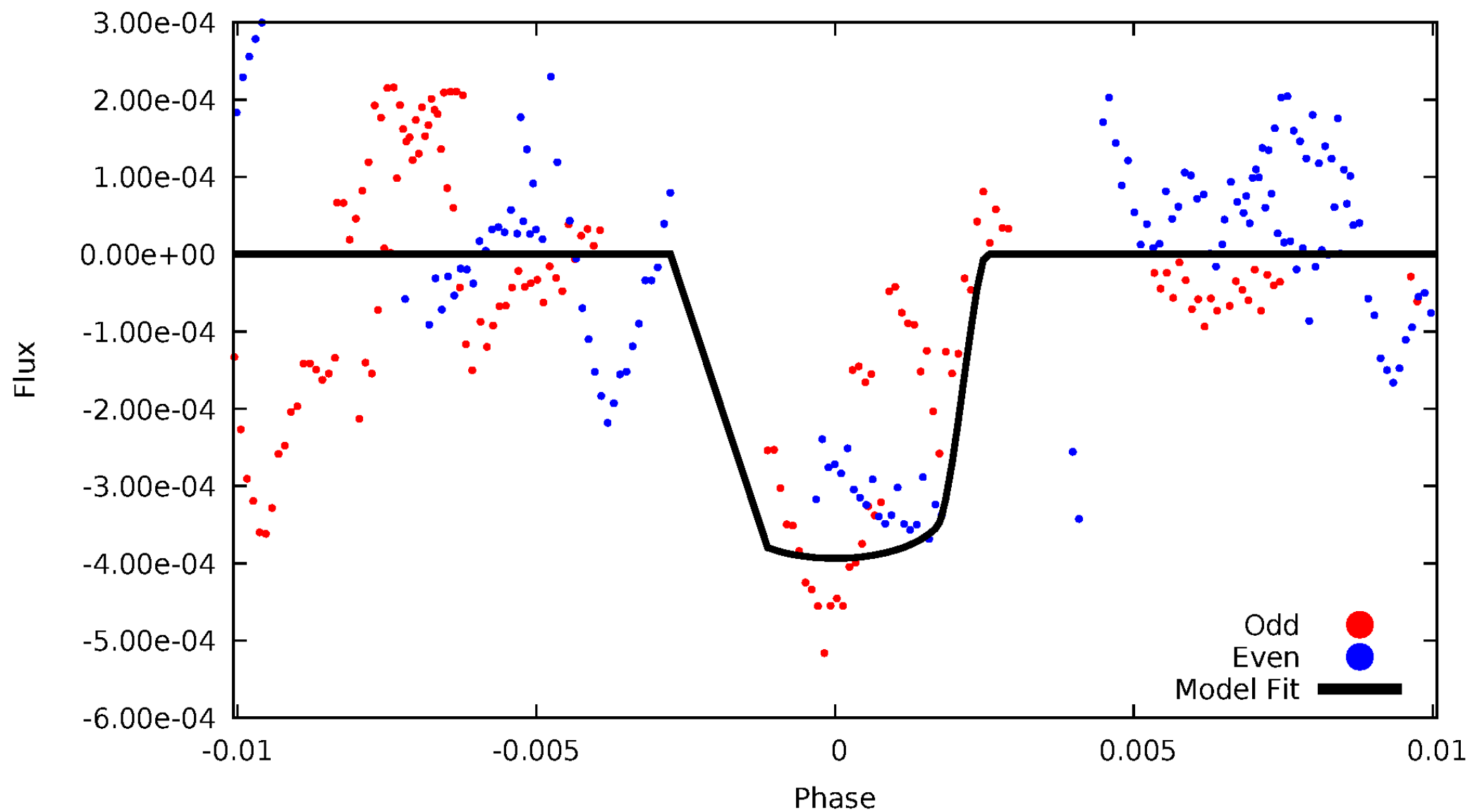
# TCE 006065699-04





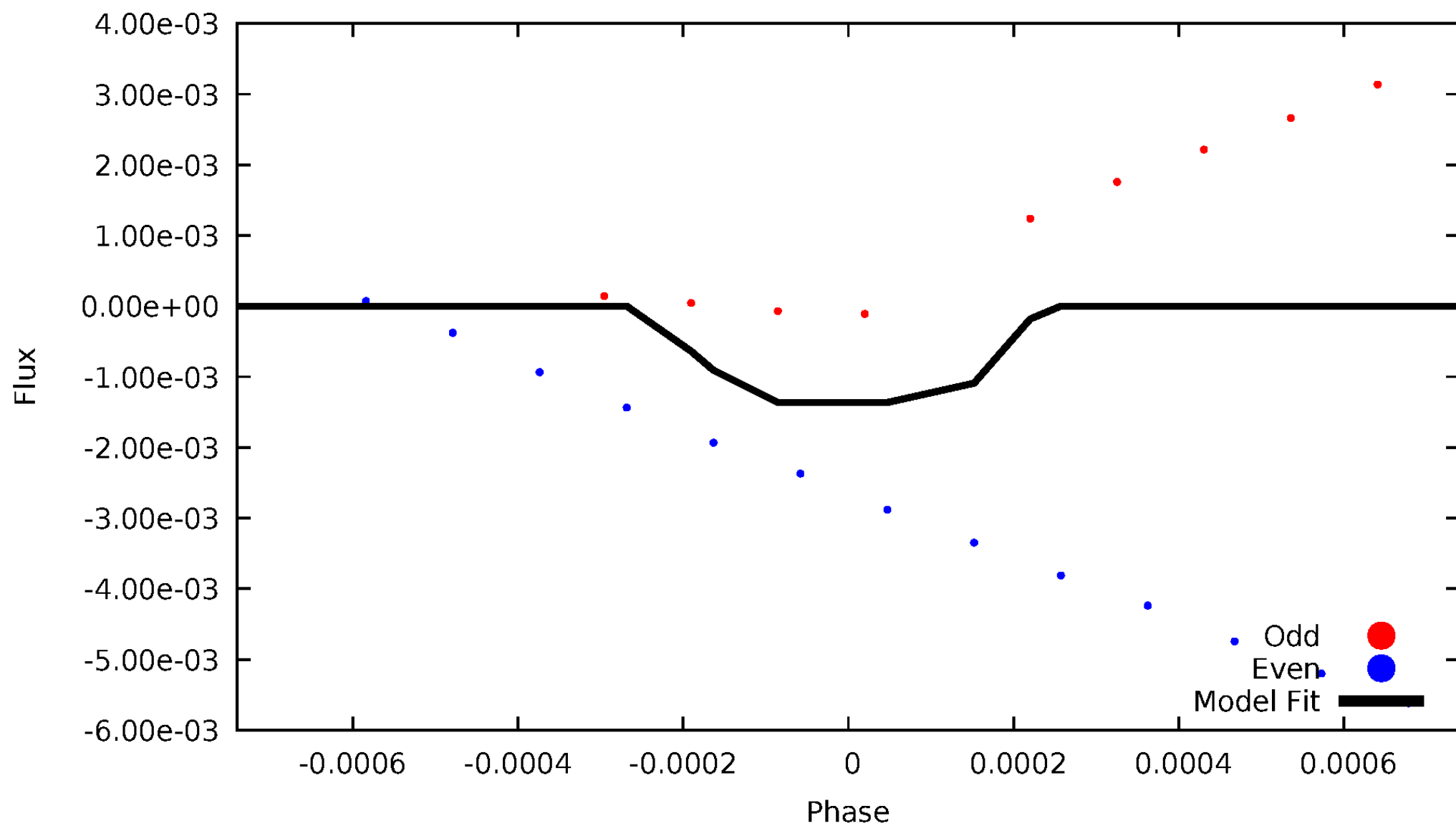
# DV Odd/Even

TCE 006065699-04



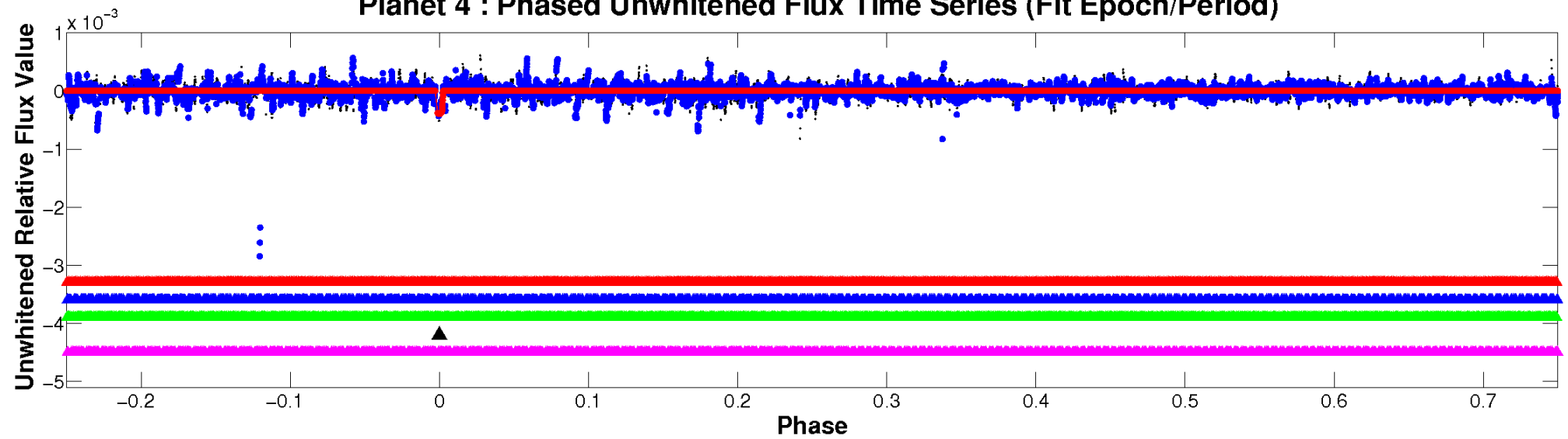
# ALT Odd/Even

TCE 006065699-04

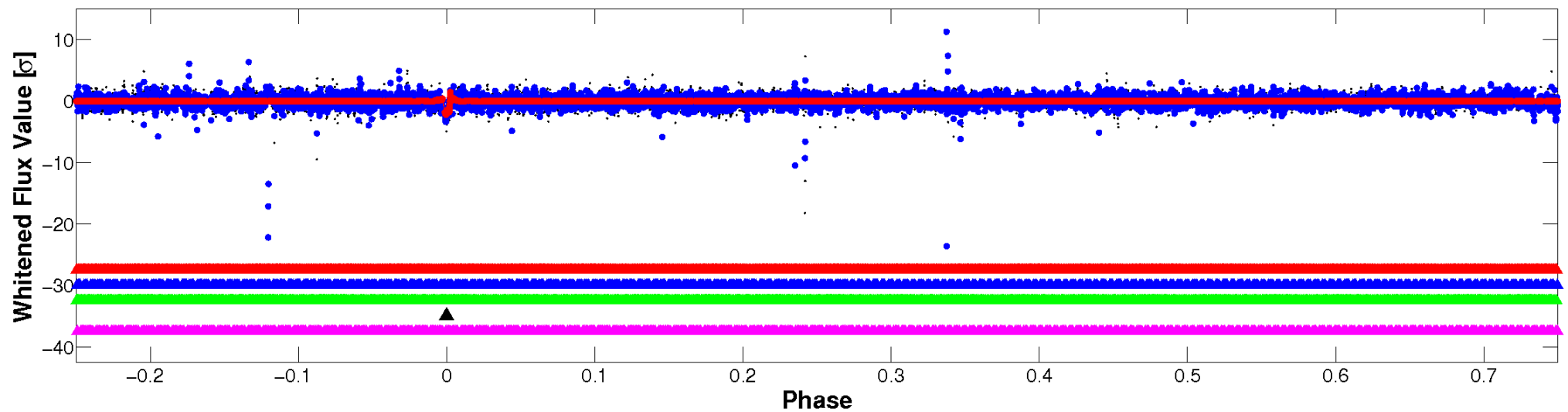


# Non-Whitened Vs. Whitened Light Curve

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

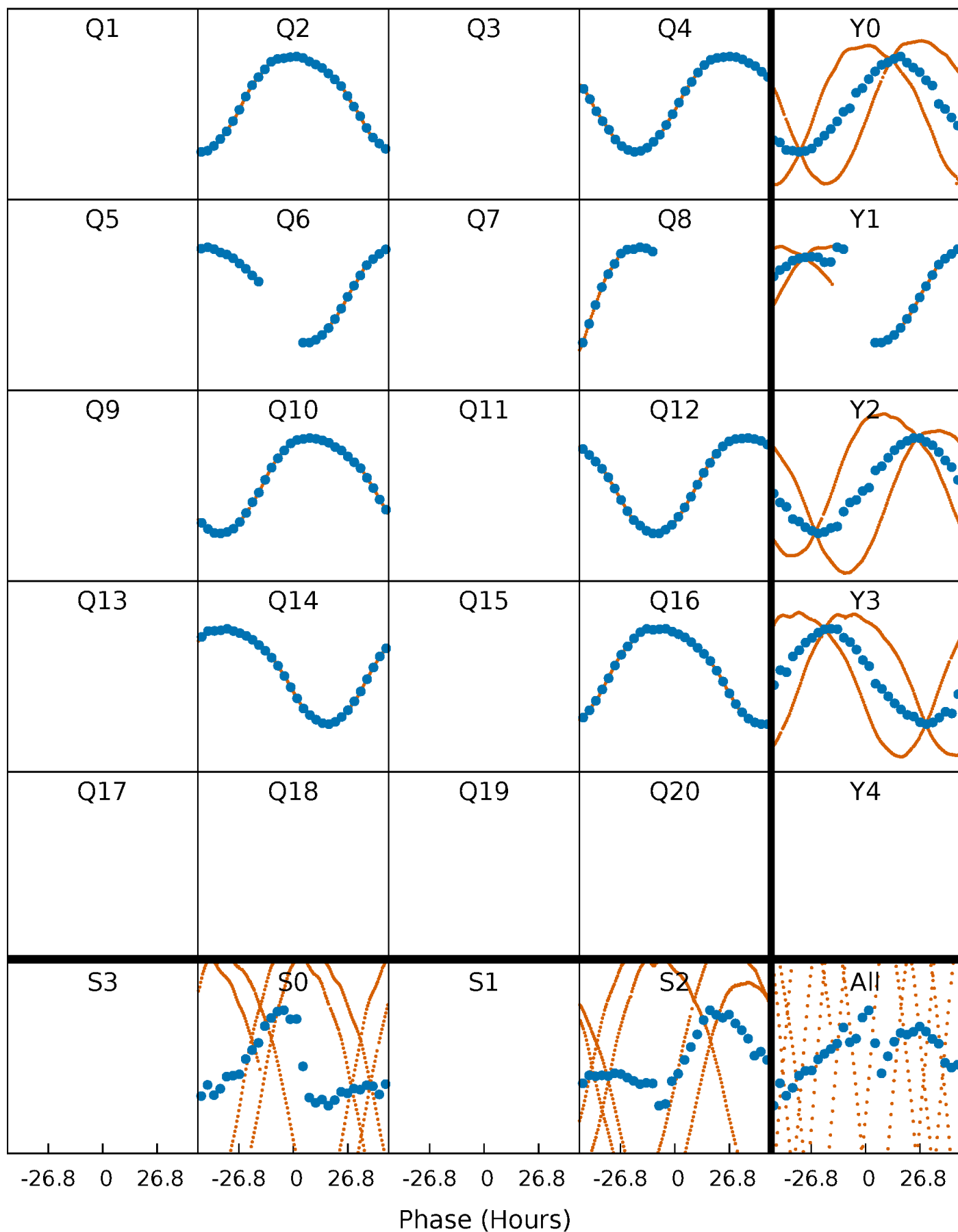


## Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



# PDC Quarter-Phased Transit Curves

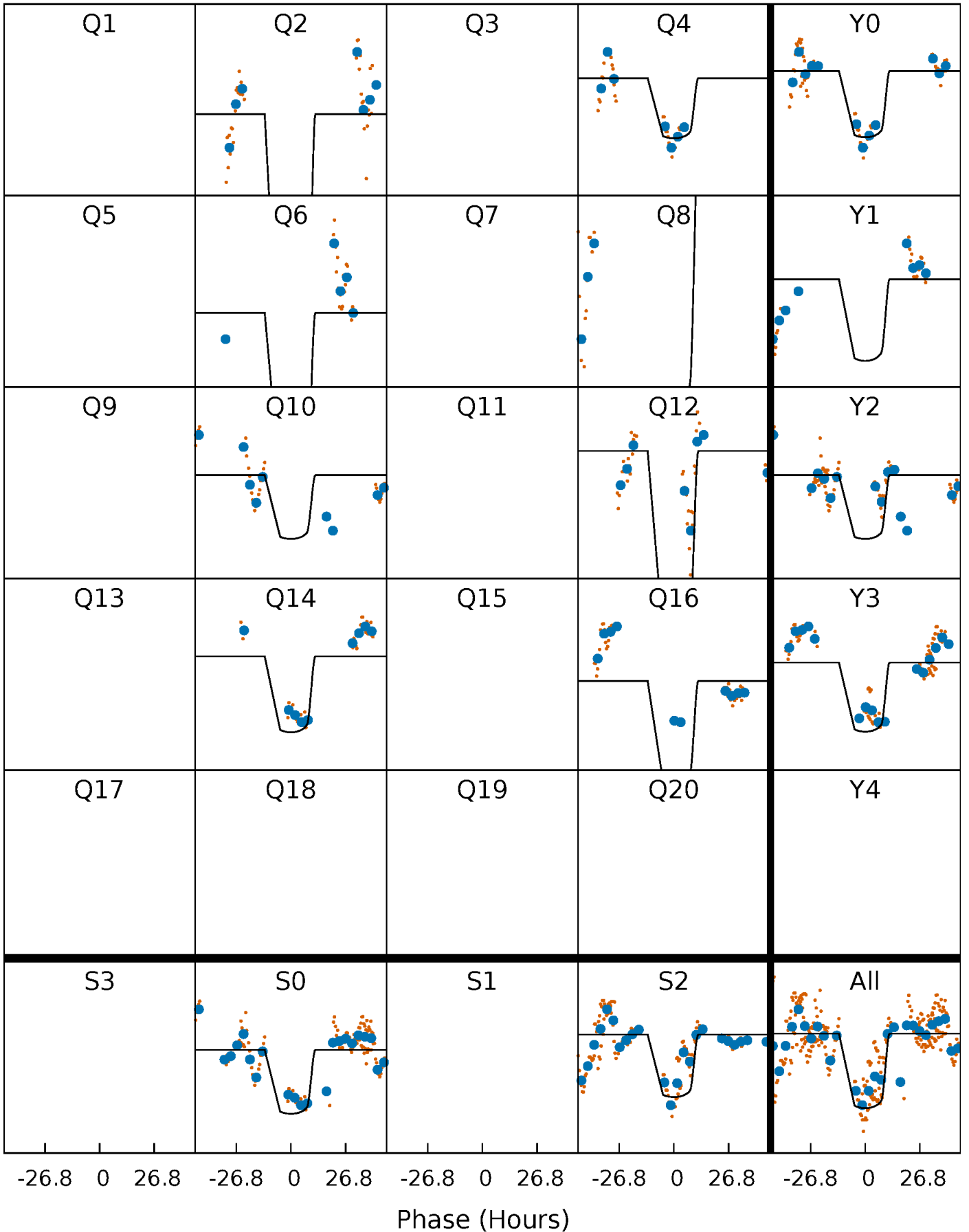
TCE 006065699-04 P=194.280928 Days  $T_0=178.645688$  (BKJD)





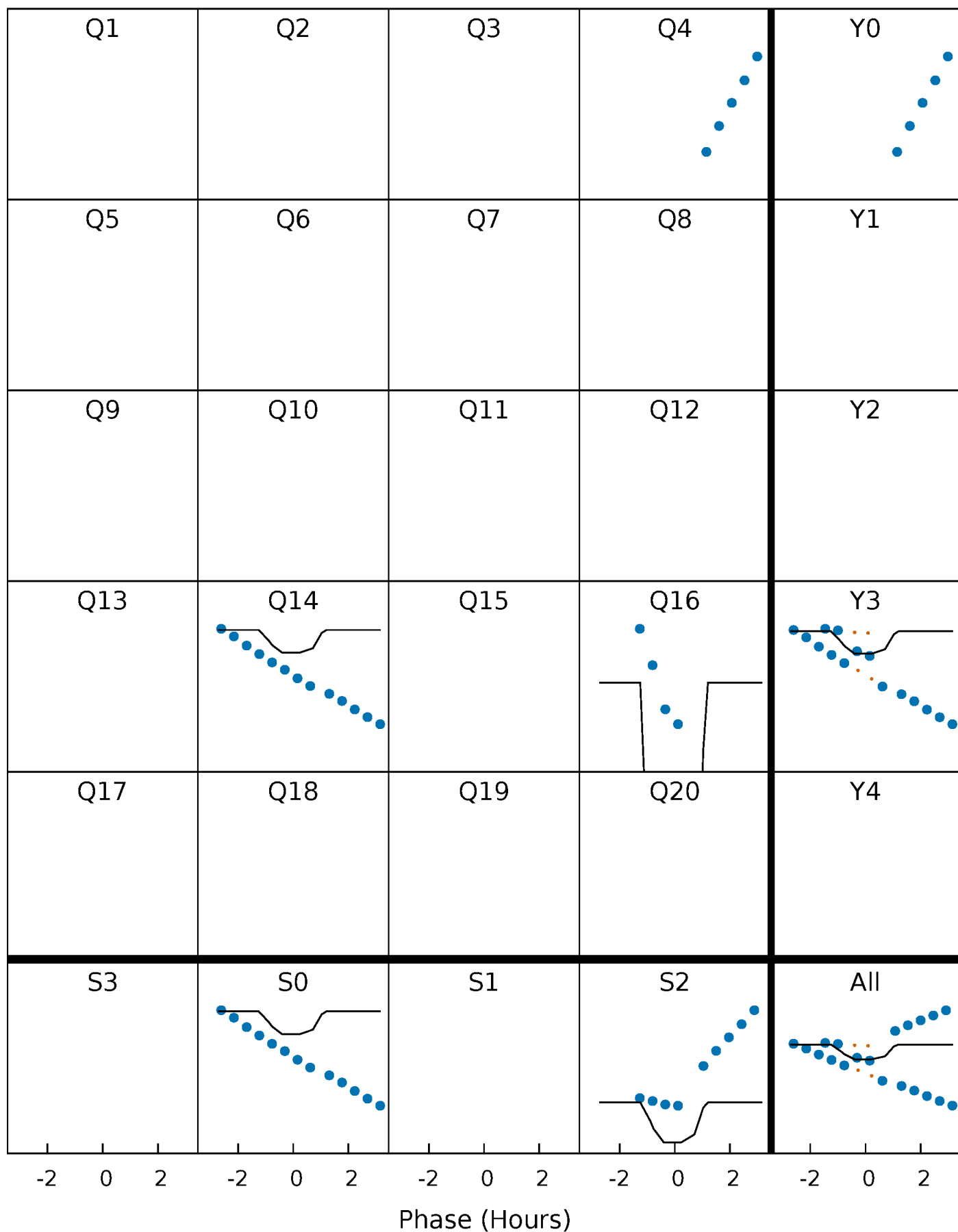
# DV Quarter-Phased Transit Curves

TCE 006065699-04     $P=194.280928$  Days     $T_0=178.645688$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

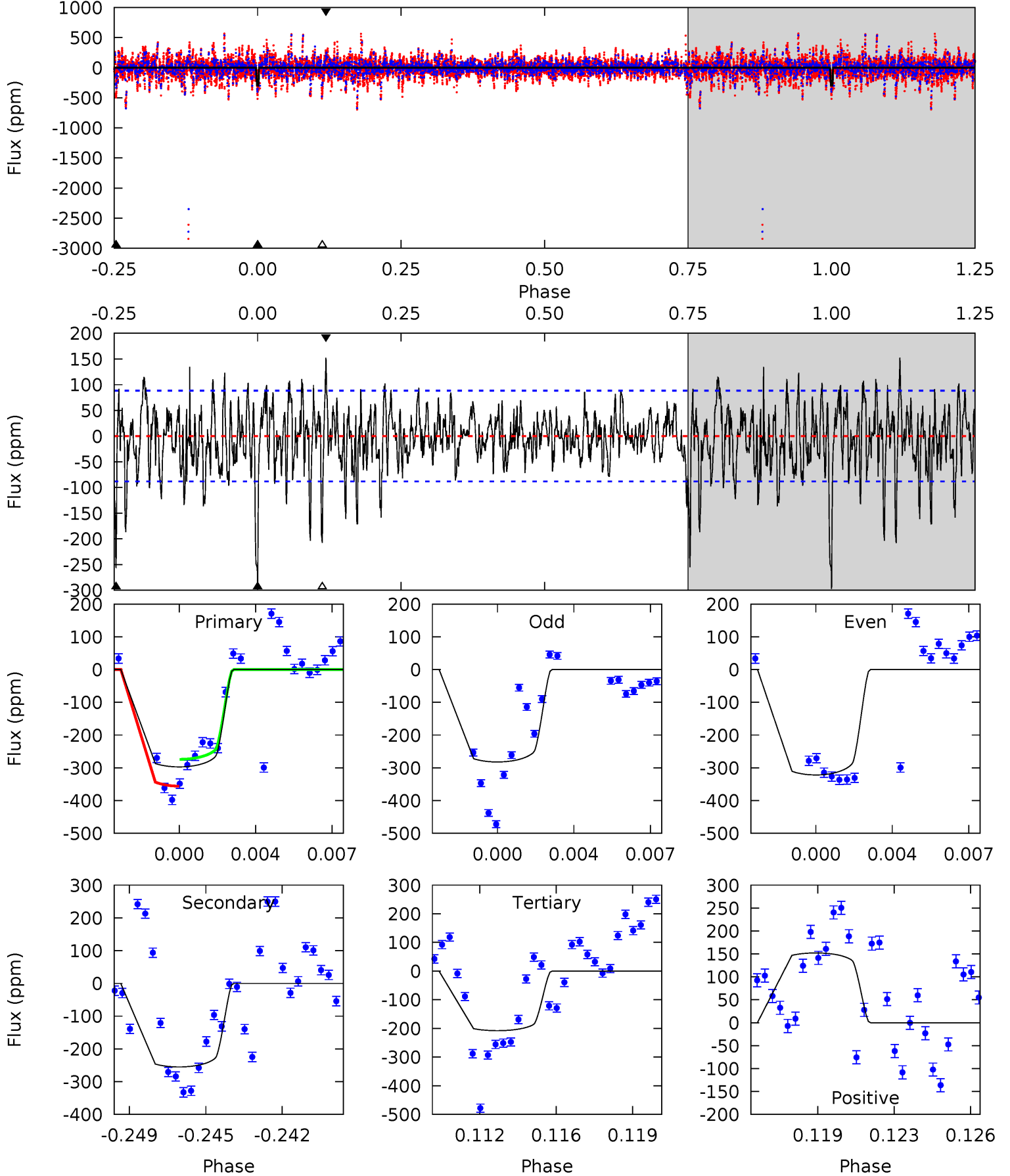
TCE 006065699-04 P=194.343589 Days  $T_0=178.321120$  (BKJD)



# DV Model-Shift Uniqueness Test

006065699-04, P = 194.280928 Days, E = 178.645688 Days

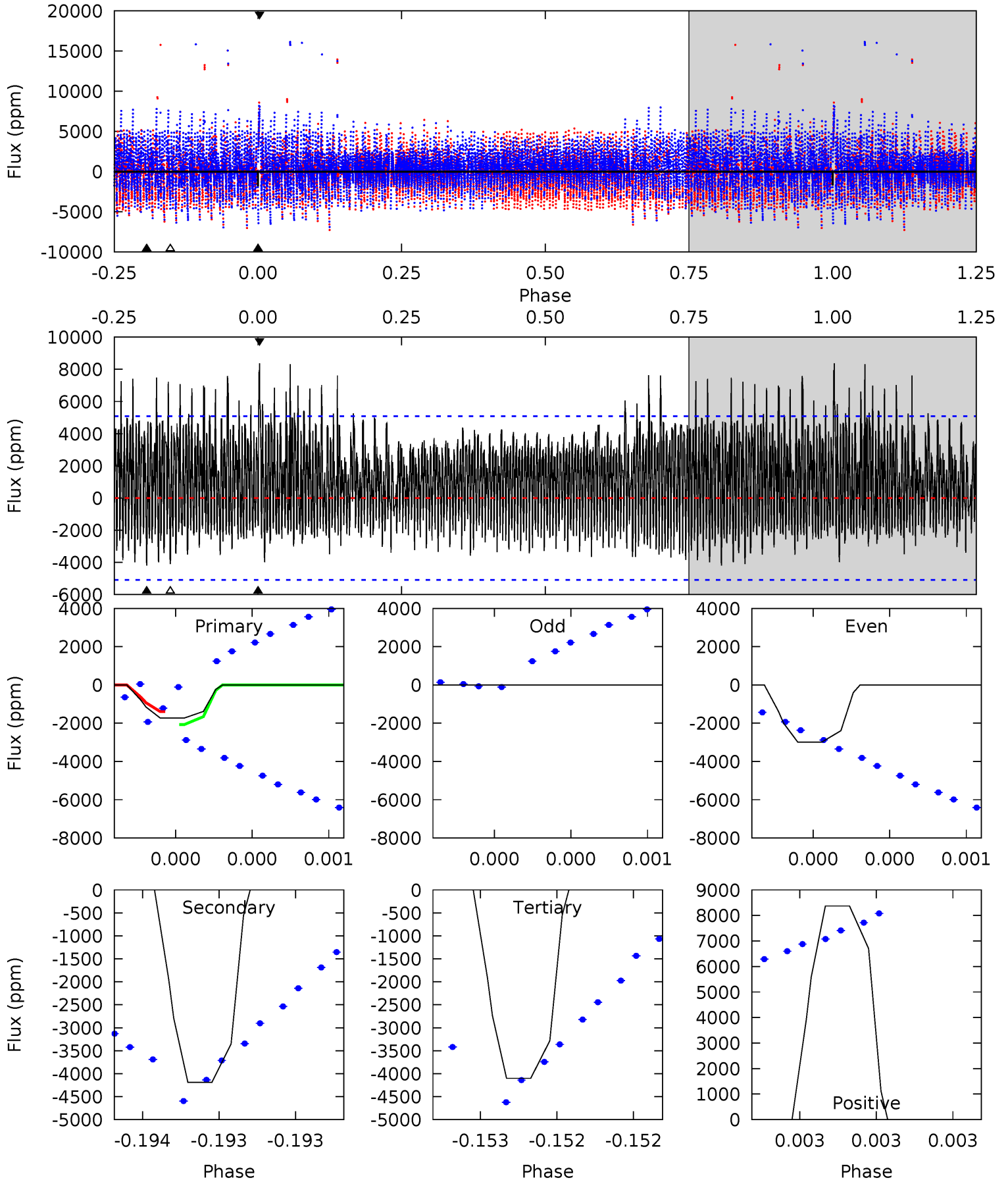
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.5	15.1	12.3	8.98	5.22	2.91	2.83	5.27	8.57	2.79	6.08	1.14	1.05	0.34	1.99



# Alt Model-Shift Uniqueness Test

006065699-04, P = 194.343589 Days, E = 178.321120 Days

Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.91	4.61	4.52	9.23	5.60	3.53	2.21	-2.61	-7.32	0.09	-4.61	1.56	1.00	0.67	0.34





### Stellar Parameters For KIC 006065699

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R$ ( $R_{\odot}$ )	$M(M_{\odot})$	$p_{\star}$ ( $\text{g}\cdot\text{cm}^{-3}$ )
	$11063^{+353}_{-530}$	$3.999^{+0.266}_{-0.143}$	$0.070^{+0.050}_{-0.650}$	$2.857^{+0.654}_{-0.981}$	$2.966^{+0.189}_{-0.754}$	$0.179^{+0.326}_{-0.077}$
	+3%/-5%	+7%/-4%	+71%/-929%	+23%/-34%	+6%/-25%	+182%/-43%
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 006065699-04 / KOI

Detrend	Depth (ppm)	$R_p$ ( $R_{\oplus}$ )	$T_{\text{max}}$ (K)	$T_{\text{obs}}$ (K)	$A_{\text{obs}}$
DV	$-255 \pm 17$	$6.56^{+0.91}_{-1.20}$	$1179^{+87}_{-116}$	$8947^{+438}_{-443}$	$2855^{+1229}_{-663}$
Alt.	$-4186 \pm 907$	$11.23^{+1.71}_{-1.99}$	$1174^{+84}_{-101}$	$18439^{+2437}_{-2440}$	$15890^{+7292}_{-4608}$

$T_{\text{max}}$  = Theoretical Maximum Planetary Temperature

$T_{\text{obs}}$  = Observed Planetary Temperature (Assuming  $A=0.3$ )

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

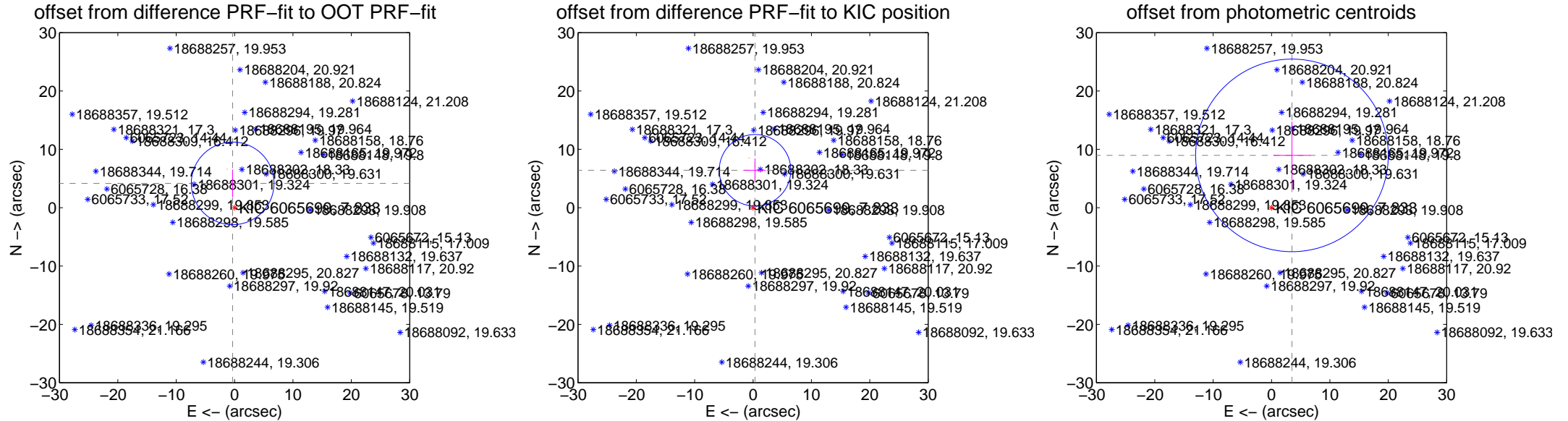
## DV Centroid Data

Supplemental centroid analysis for 006065699-04. **Kepler magnitude: 7.83.** Transit SNR 13.11

**There are 0 quarters with good PRF difference image offsets**

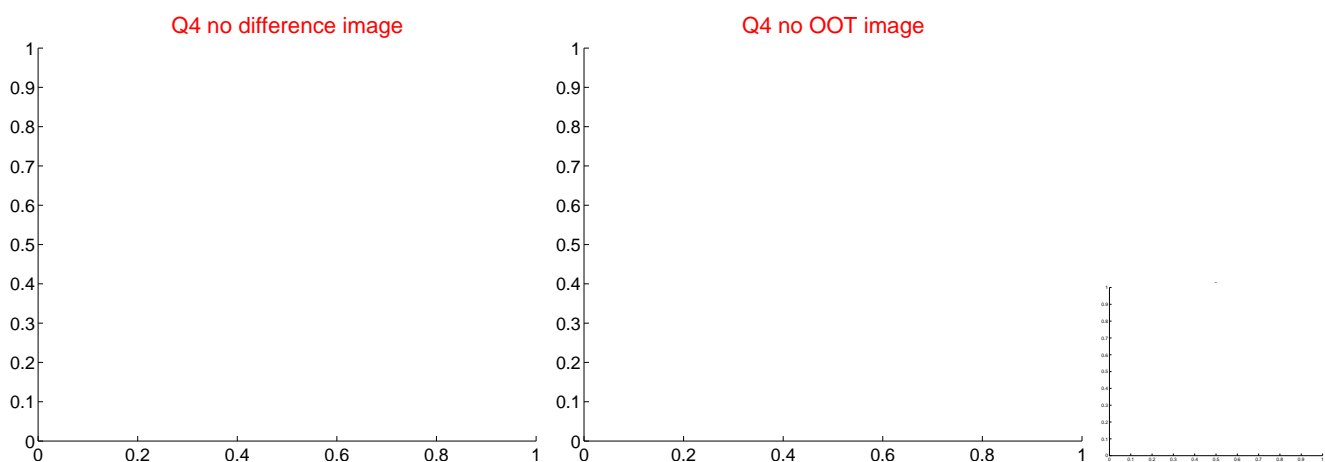
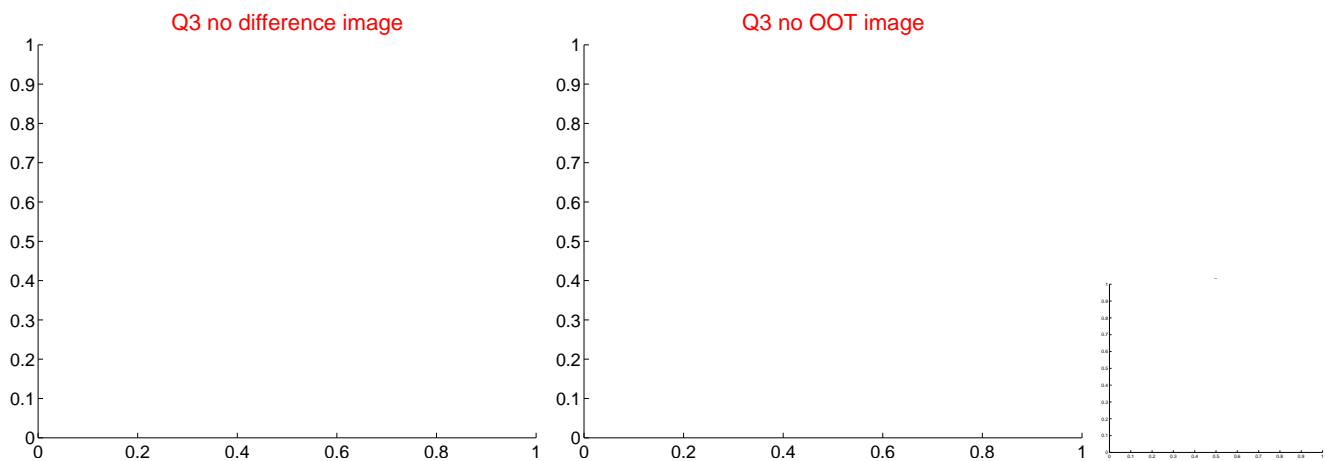
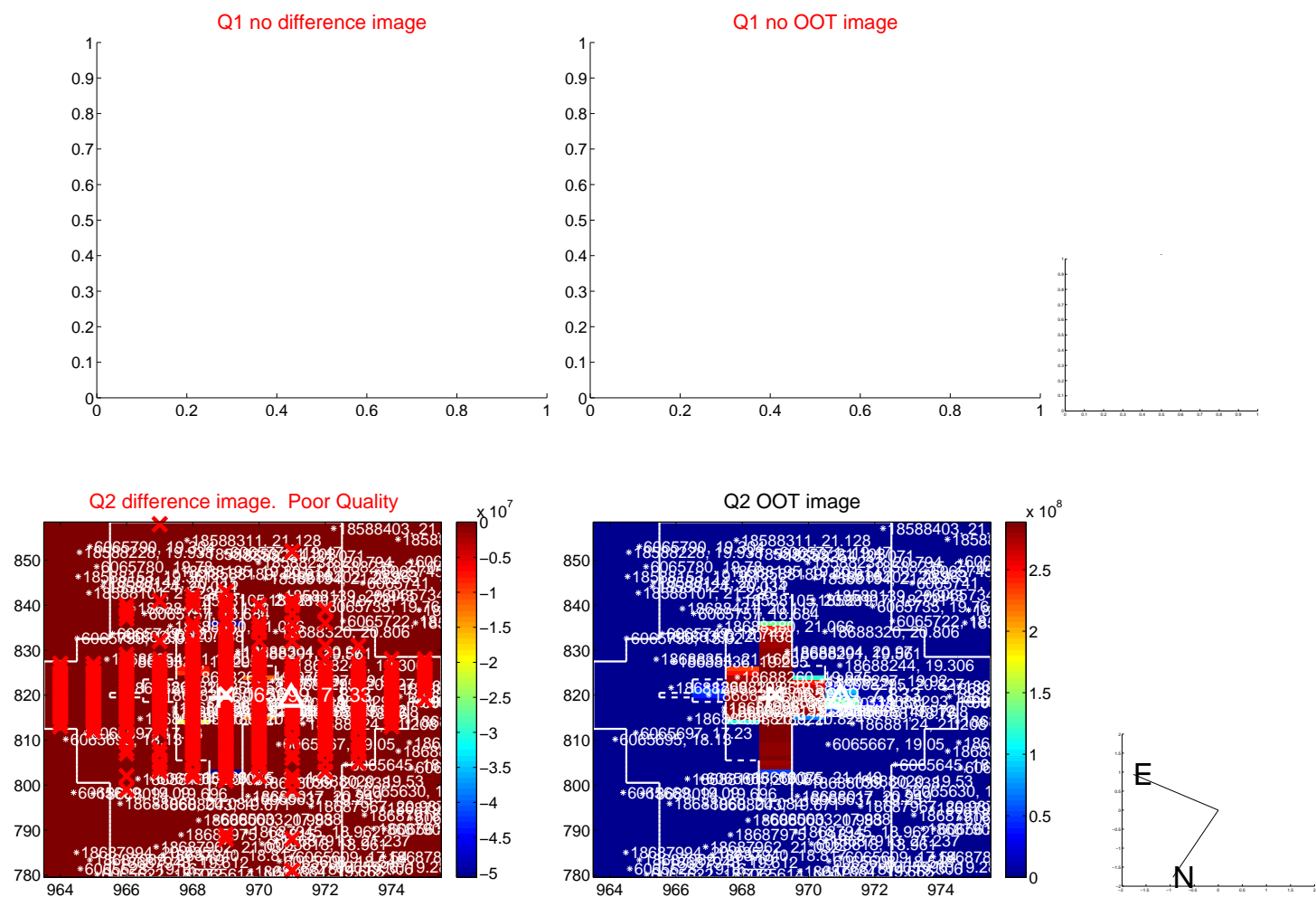
The direct PRF centroid is offset from the target star catalog position by about 1.94 arcsec

	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	$4.176 \pm 2.361$	1.77	$0.330 \pm 1.805$	$4.163 \pm 2.364$
PRF-fit source offset from KIC position	<b><math>6.420 \pm 2.043</math></b>	<b>3.14</b>	$-0.339 \pm 1.860$	$6.411 \pm 2.044$
photometric centroid source offset	$9.62 \pm 5.50$	1.75	$-3.50 \pm 3.19$	$8.96 \pm 5.77$



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- $\sigma$  uncertainty. Blue circle: three- $\sigma$ . 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.

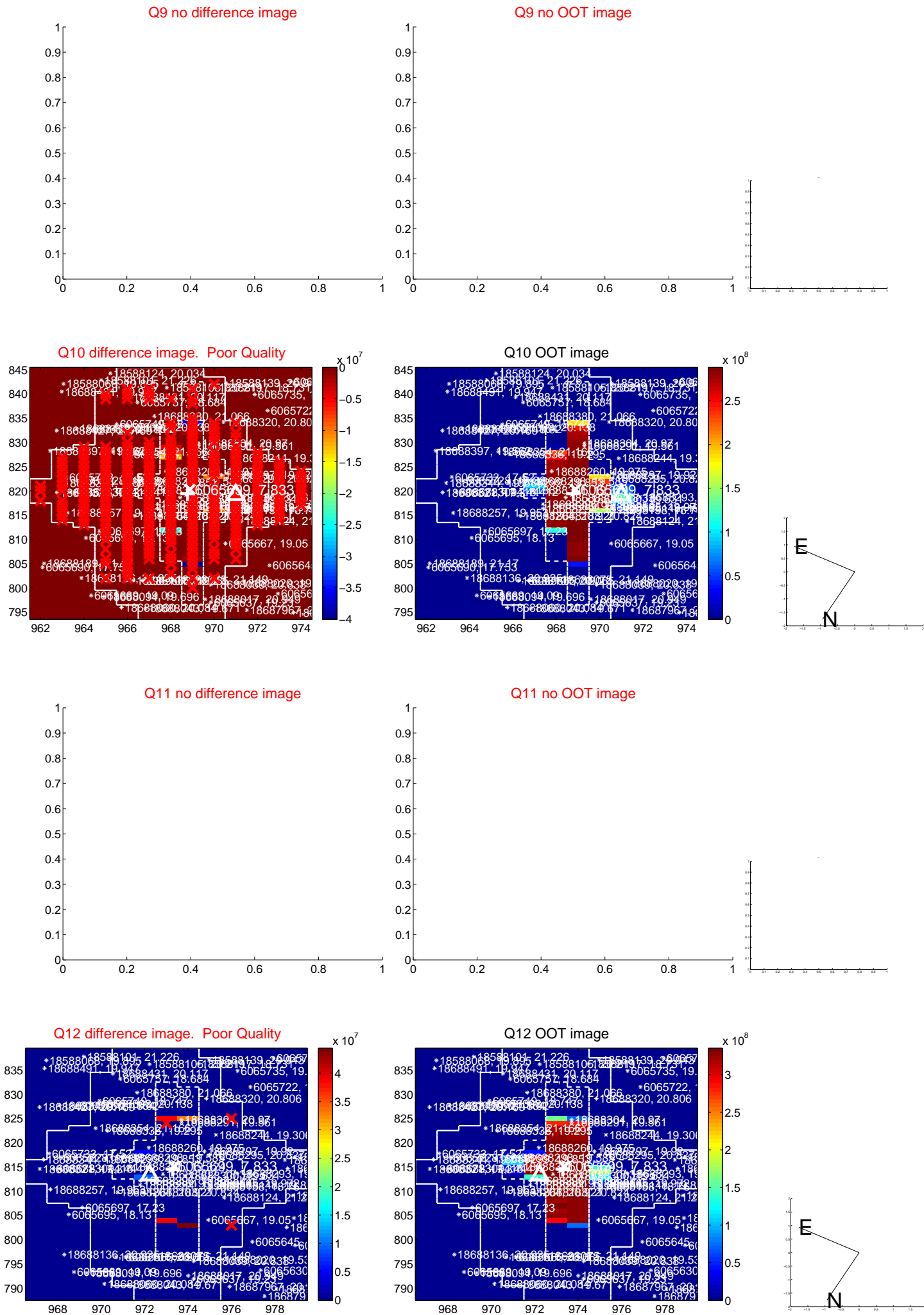


white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.

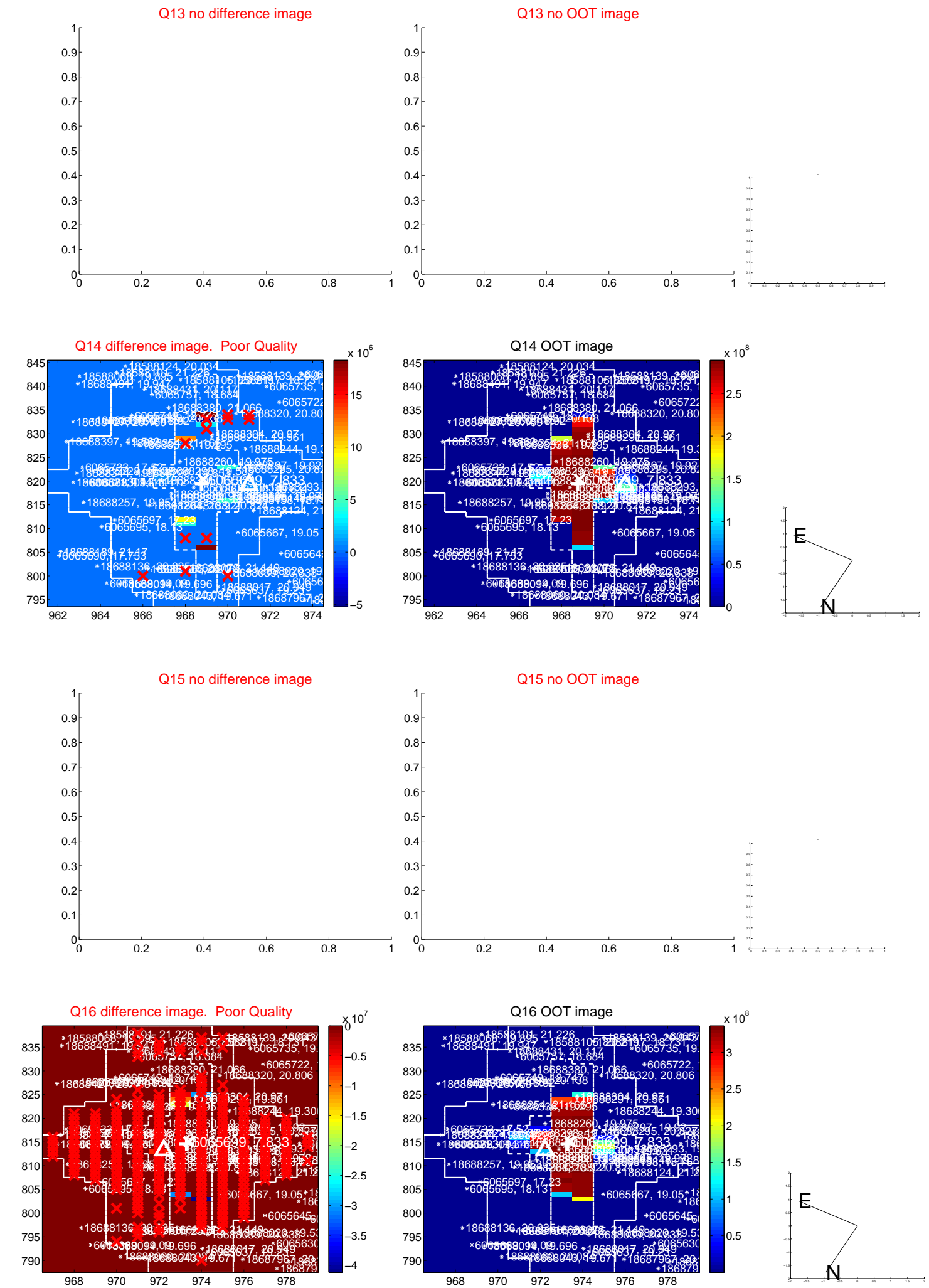




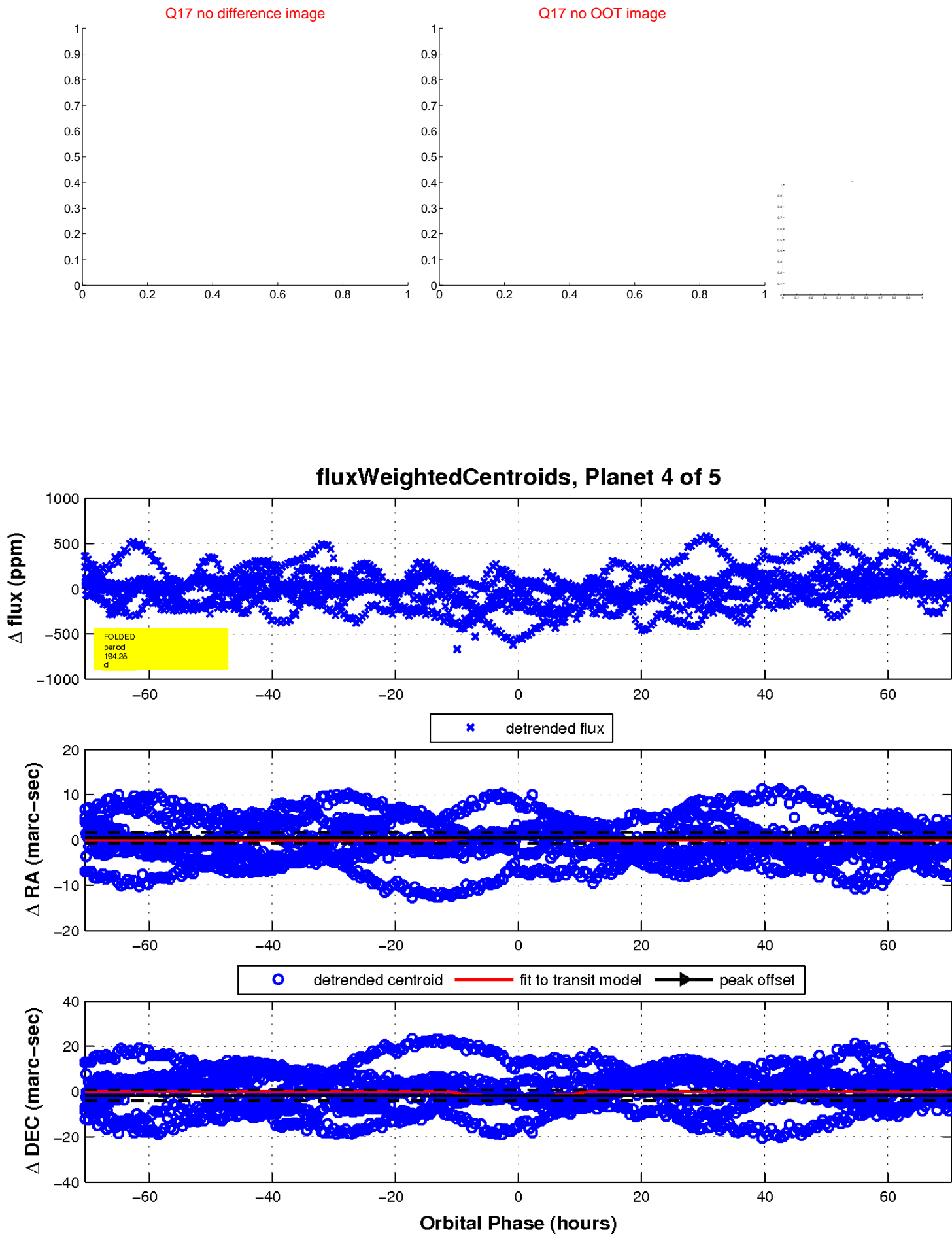
white  $\times$ : KIC target position; +: OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



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

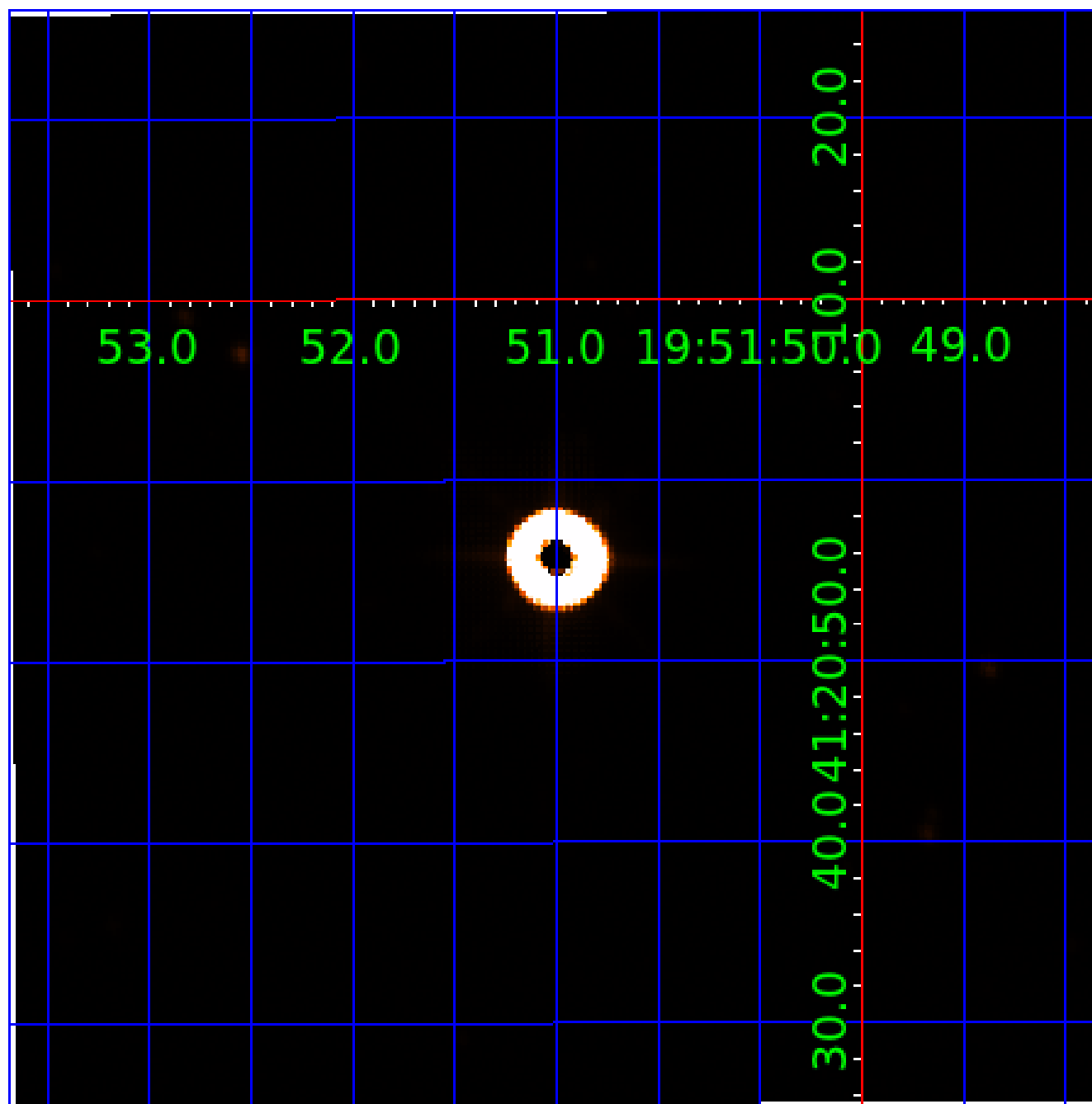


white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



UKIRT Image

Declination



# KIC 006065699

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
006065699-01	OBS	No	1.329134	132.814552	8.6	4.657	17.6	9.5	2.86	11063	0.96	94674.84
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006065699-03	OBS	No	1.329093	131.925777	29.4	3.000	12.7	-1.0	2.86	11063	1.60	94678.71
006065699-04	OBS	No	194.280928	178.645688	393.7	23.467	12.3	13.1	2.86	11063	6.64	122.96
006065699-05	OBS	No	1.993660	131.612942	22.3	5.898	11.8	11.2	2.86	11063	1.45	55138.90

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006065699-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
006065699-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE_ZUMA_TRACKER—TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_SATURATED
006065699-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
006065699-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
006065699-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED

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

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

See [http://exoplanetarchive.ipac.caltech.edu/docs/API\\_kepcandidate\\_columns.html#proj\\_disp\\_col](http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col) for comment definitions.

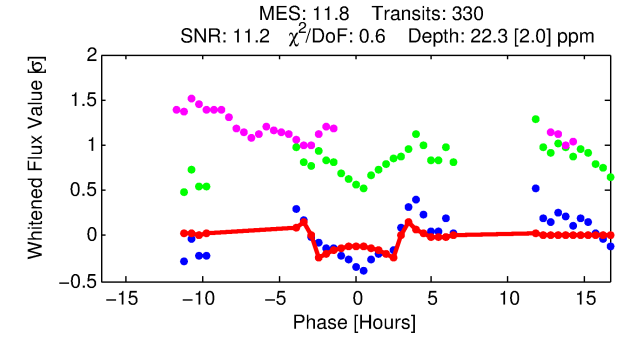
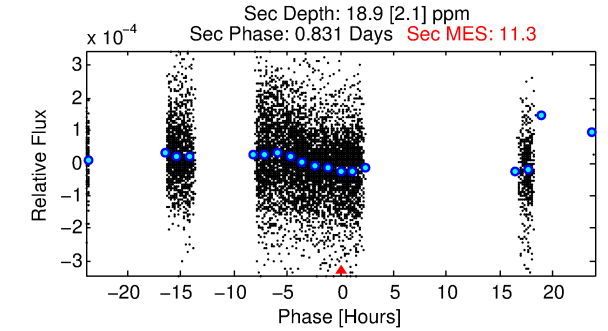
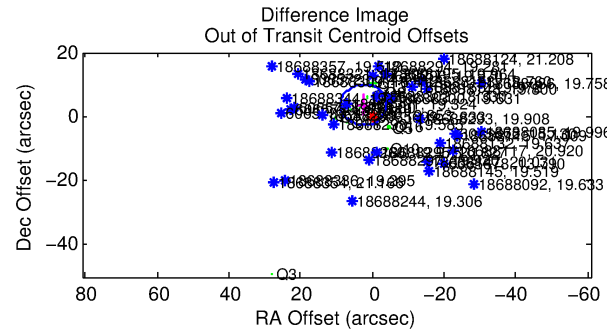
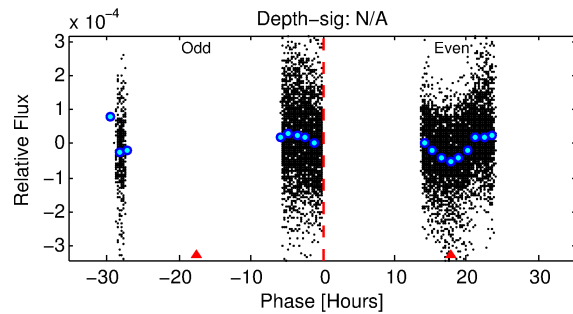
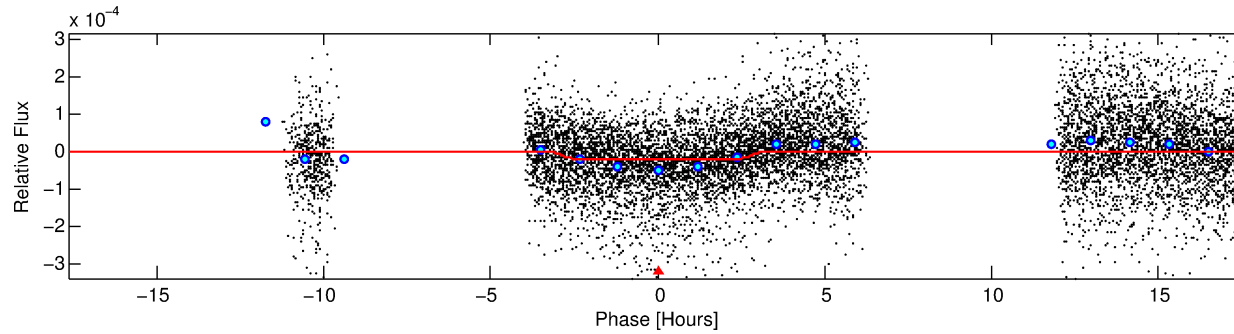
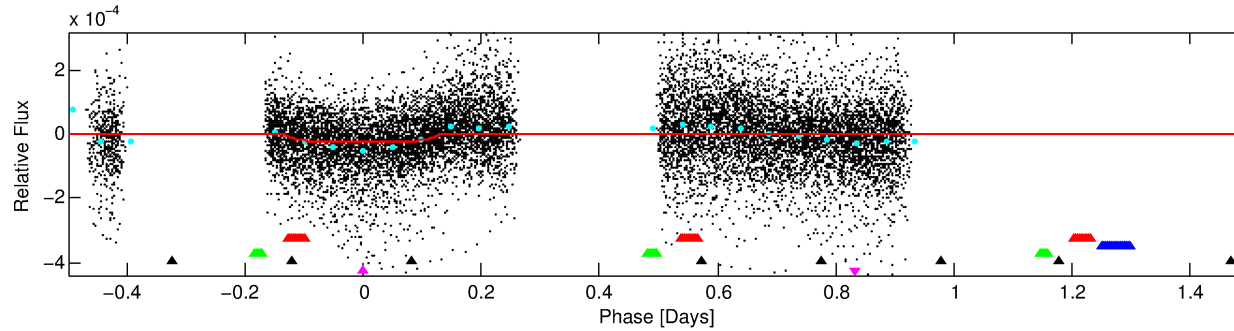
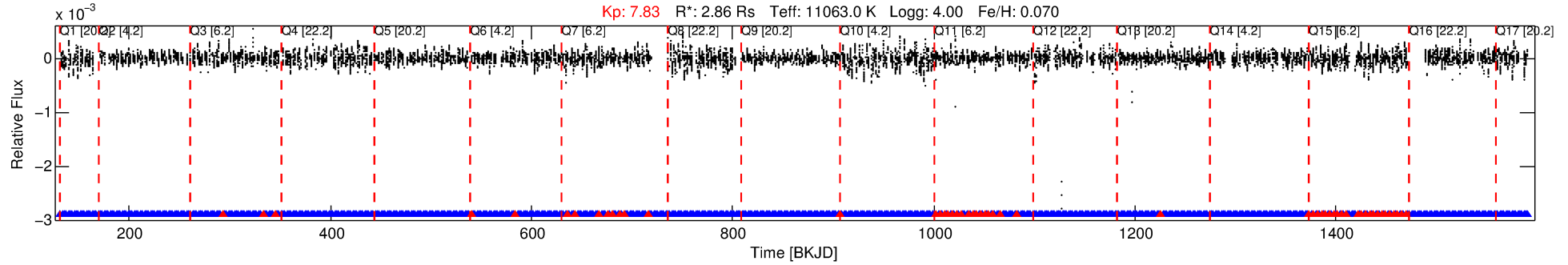
Ephemeris Match Information For 006065699-05

No Significant Match Found



# DV One-Page Summary

KIC: 6065699 Candidate: 5 of 5 Period: 1.994 d



## DV Fit Results:

Period = 1.99366 [0.00001] d  
 Epoch = 131.6129 [0.0017] BKJD  
 Rp/R\* = 0.0046 [0.0003]  
 a/R\* = 2.04 [0.71]  
 b = 0.70 [0.34]  
 Seff = 55138.90 [27890.24]  
 Teq = 3907 [494] K  
 Rp = 1.45 [0.51] Re  
 a = 0.0446 [0.0137] AU  
 Ag = 9.84 [4.94] [1.79σ]  
 Teffp = 10700 [706] K [7.88σ]

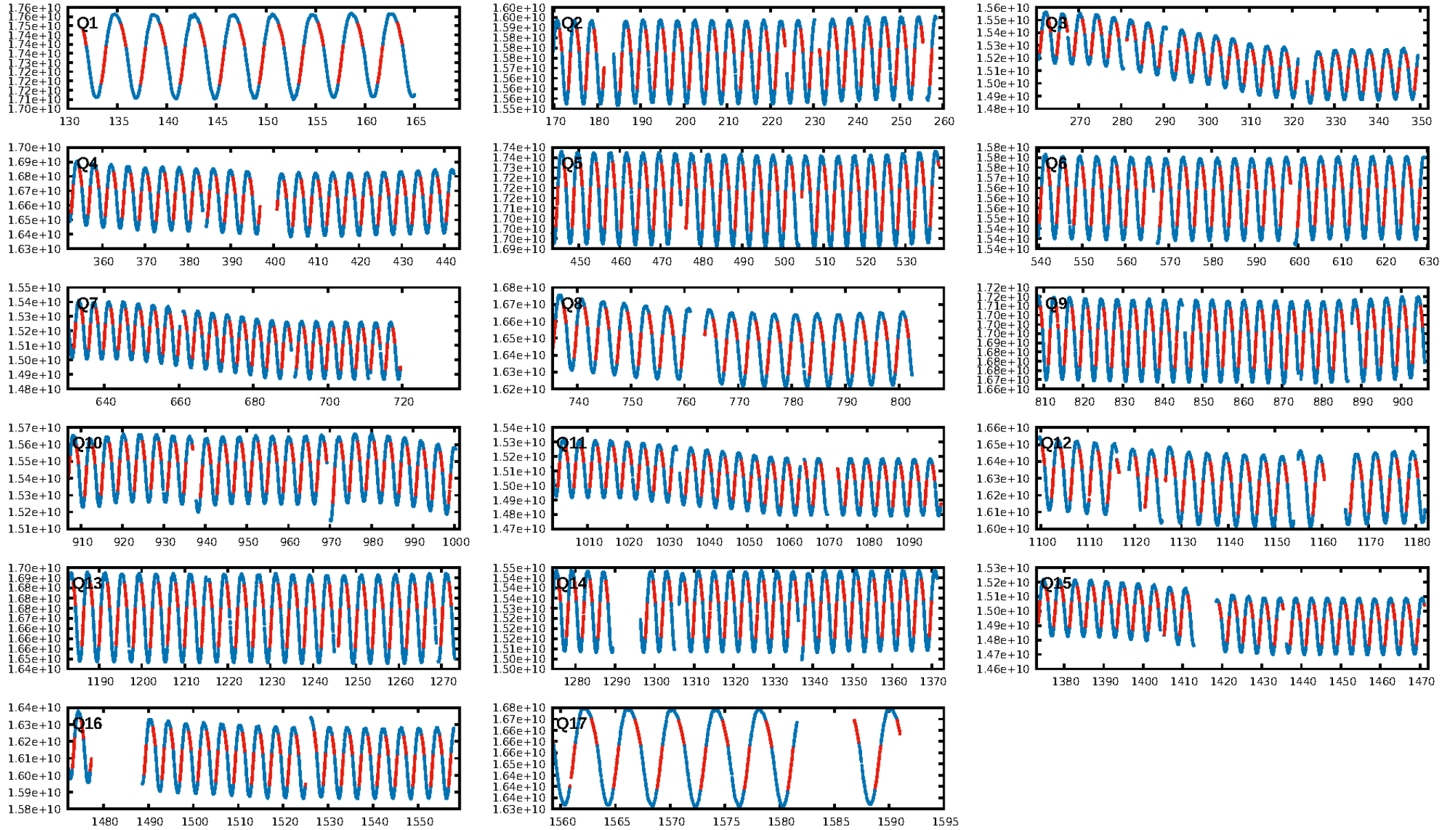
## DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]  
 LongPeriod-sig: 100.0% [190.72σ]  
 ModelChiSquare2-sig: N/A  
 ModelChiSquareGof-sig: N/A  
 Bootstrap-pfa: 1.93e-10  
 RollingBand-fgt: 0.83 [261/315]  
 GhostDiagnostic-chr: N/A  
 Centroid-sig: 1.2%  
 Centroid-so: 17.265 arcsec [2.22σ]  
 OutOffset-rm: 4.638 arcsec [2.16σ]  
 OutOffset-st: 3/4/4/5 [16]  
 KicOffset-rm: 8.035 arcsec [2.44σ]  
 KicOffset-st: 3/4/4/5 [16]  
 DiffImageQuality-fgm: 0.00 [0/16]  
 DiffImageOverlap-fno: 0.00 [0/17]

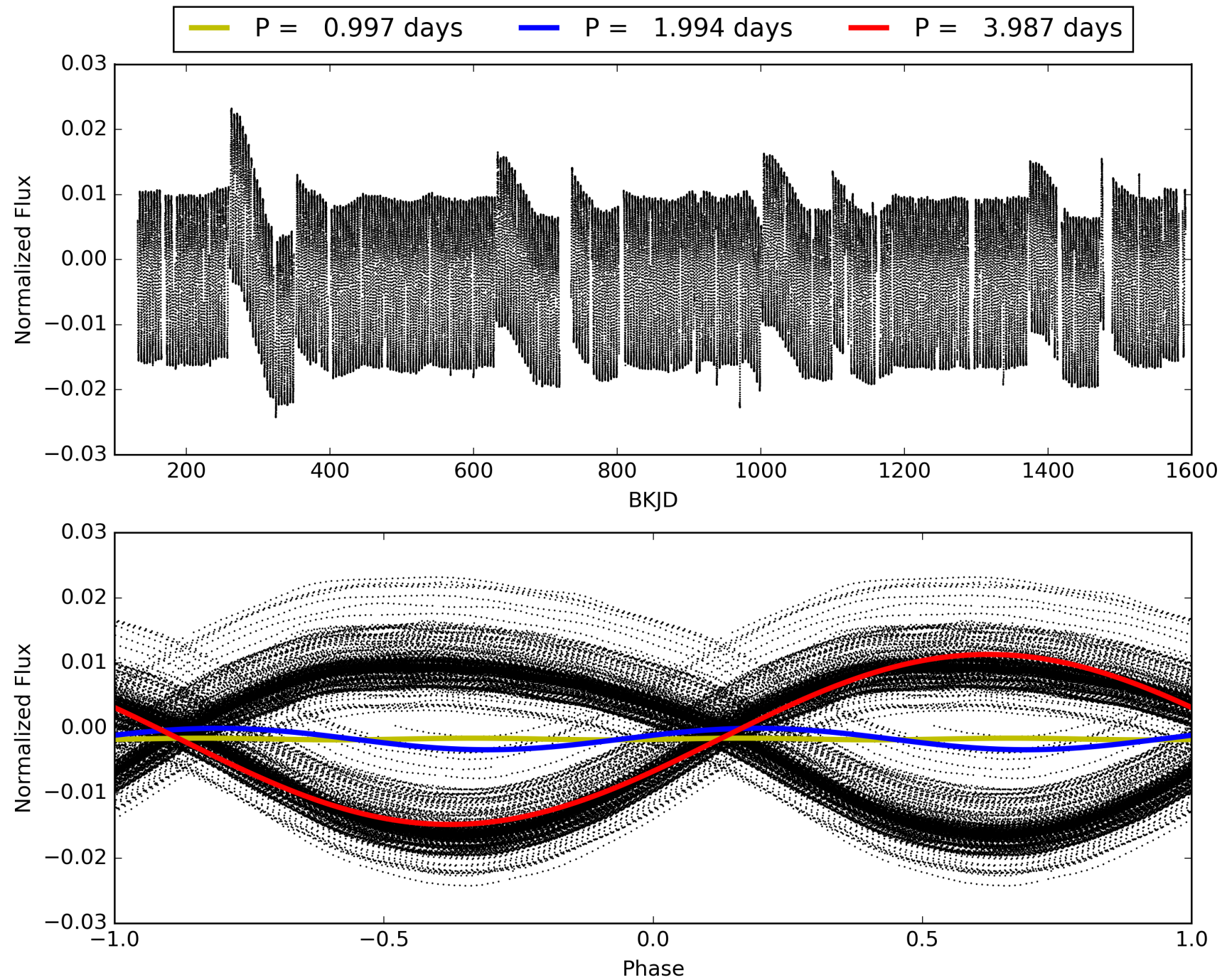
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 15:31:48 Z

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

# TCE 006065699-05, PDC Light Curves

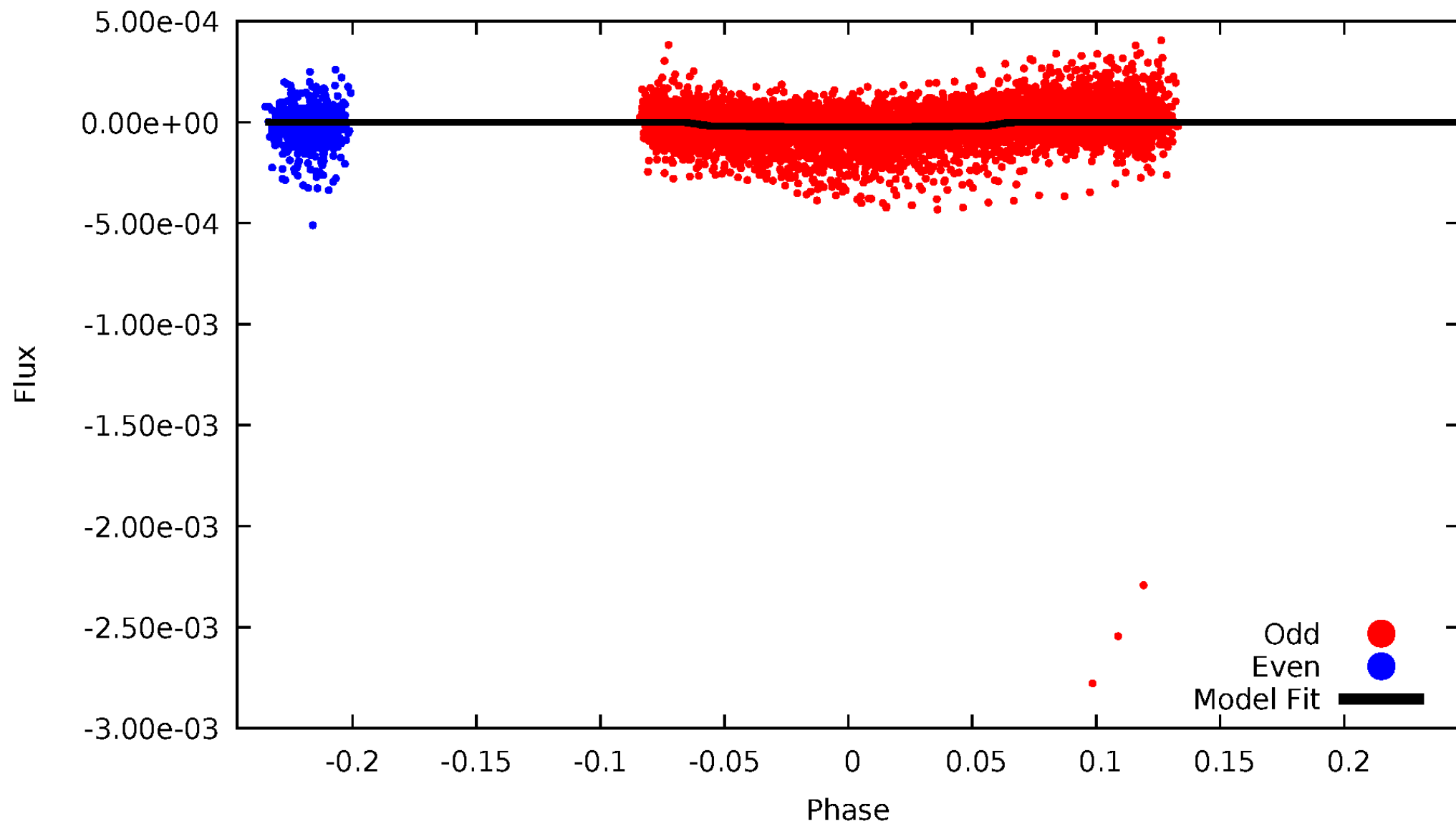


TCE 006065699-05



DV Odd/Even

TCE 006065699-05





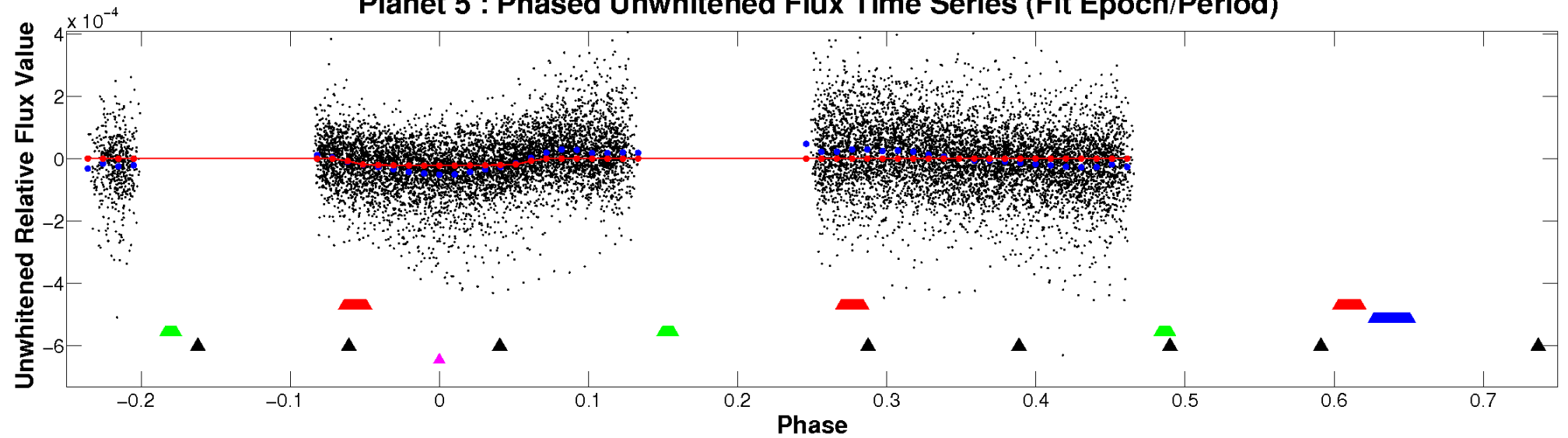


ALT Odd/Even

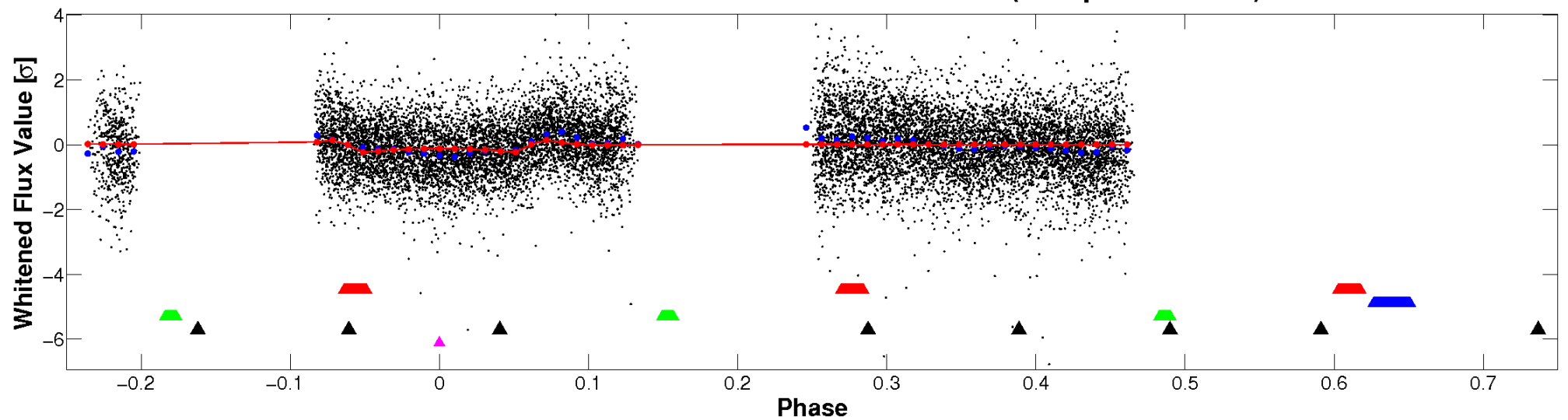
This plot does not exist for this TCE.

# Non-Whitened Vs. Whitened Light Curve

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

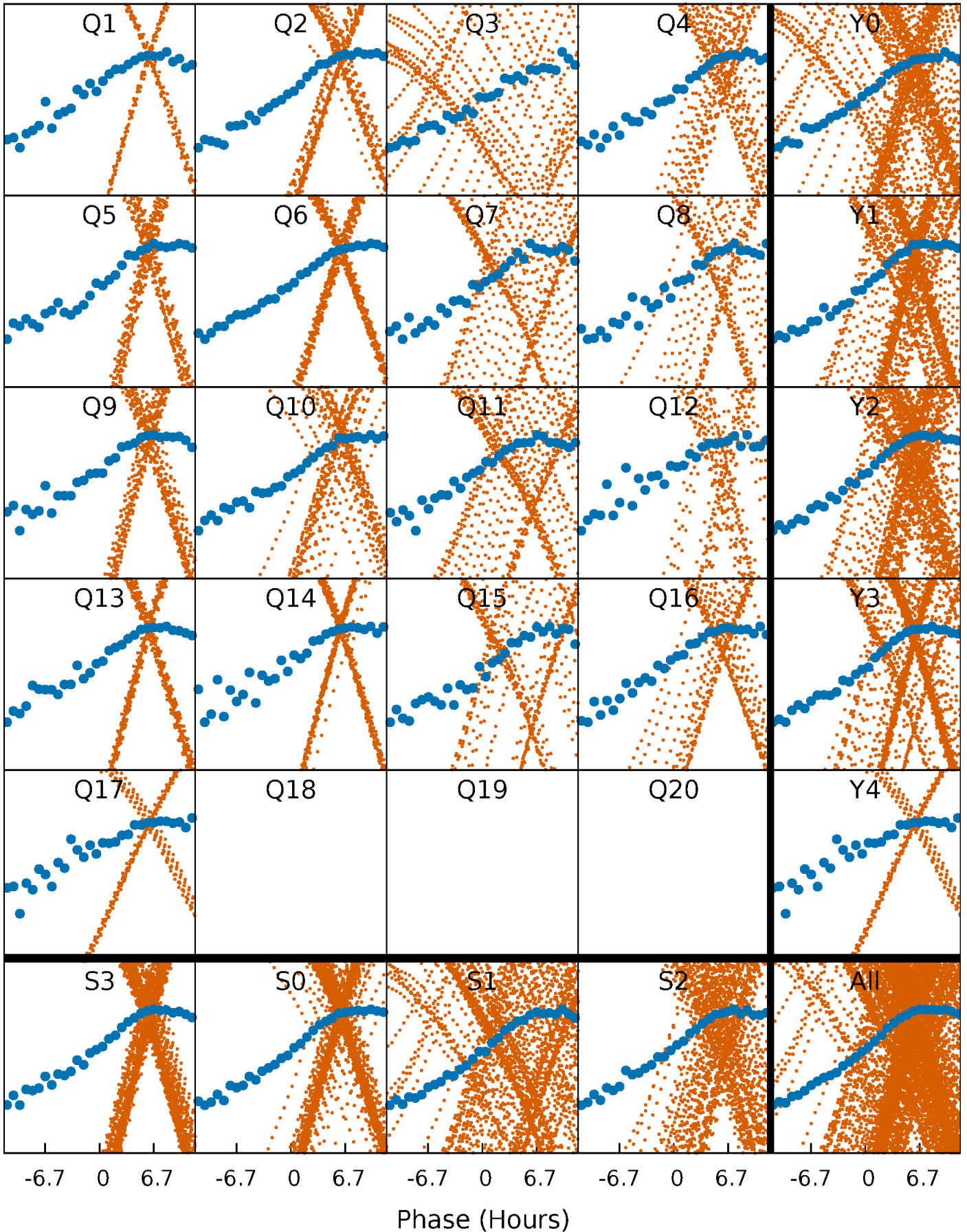


## Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



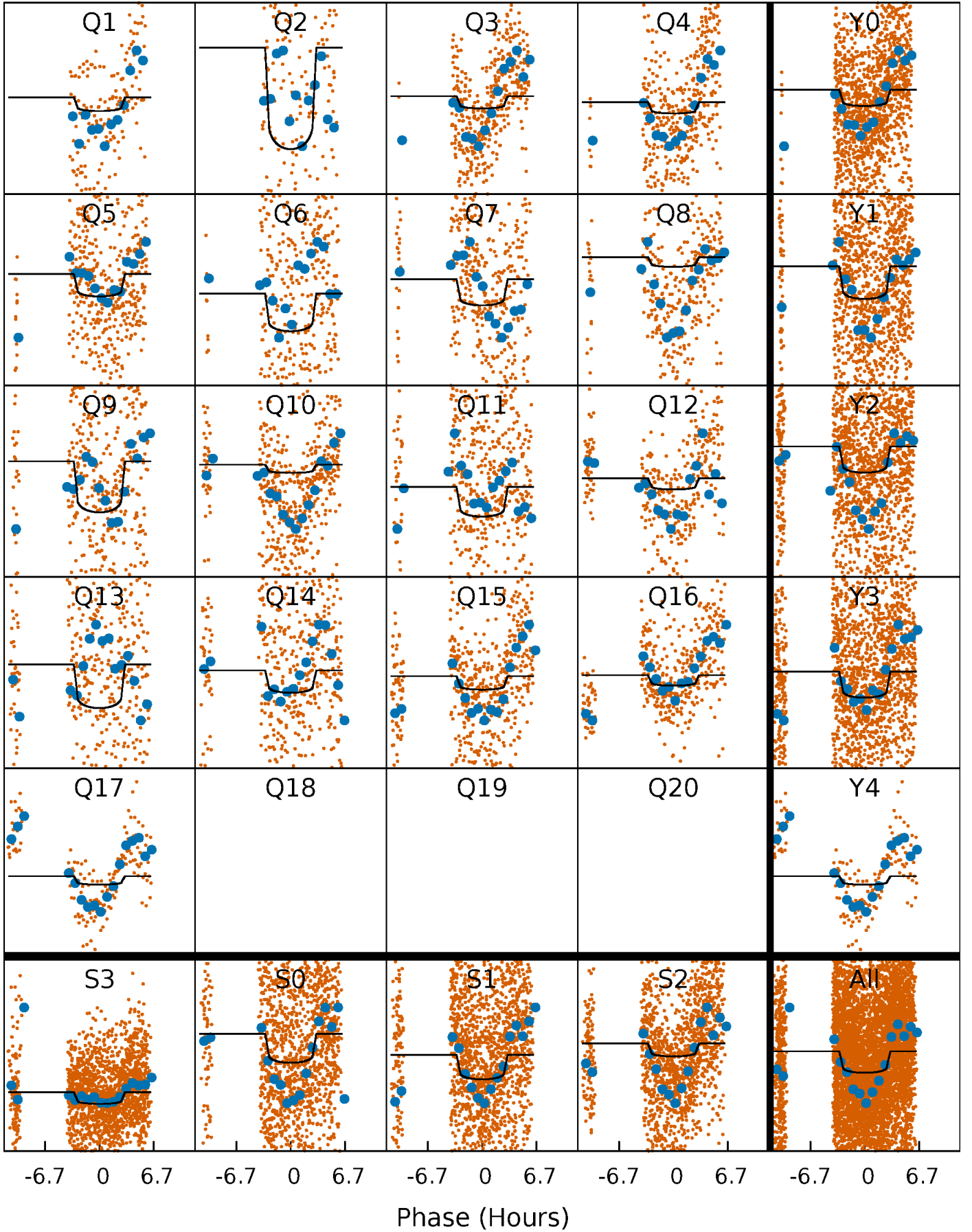
# PDC Quarter-Phased Transit Curves

TCE 006065699-05   P= 1.993660 Days    $T_0=131.612942$  (BKJD)



# DV Quarter-Phased Transit Curves

TCE 006065699-05     $P = 1.993660$  Days     $T_0 = 131.612942$  (BKJD)



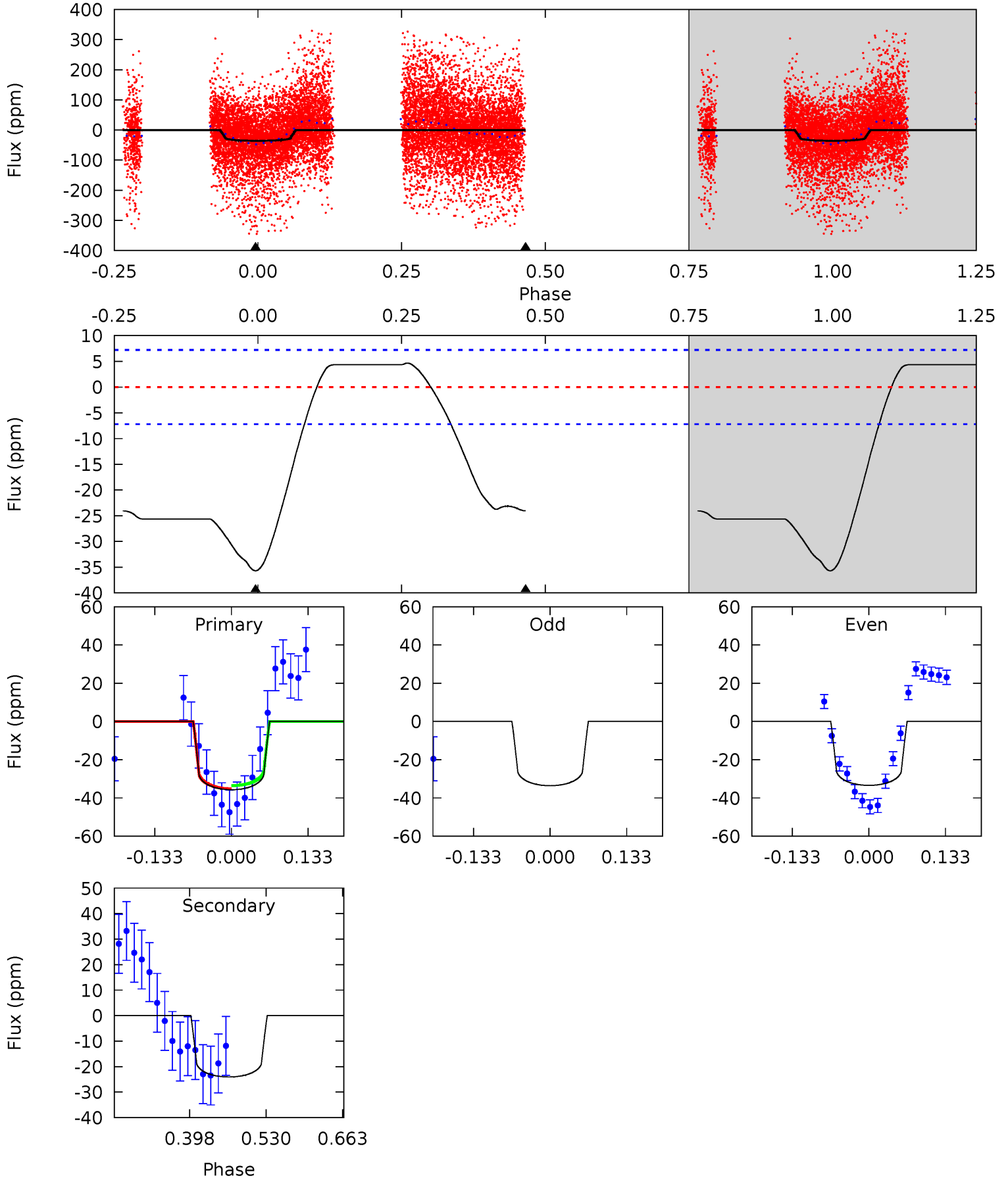
This plot does not exist for this TCE.



# DV Model-Shift Uniqueness Test

006065699-05, P = 1.993660 Days, E = 131.612942 Days

Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.3	15.0	0	0	4.51	1.50	6.26	22.3	22.3	15.0	15.0	0.06	1.30	0.12	0.54



## Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

### Stellar Parameters For KIC 006065699

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	$11063^{+353}_{-530}$	$3.999^{+0.266}_{-0.143}$	$0.070^{+0.050}_{-0.650}$	$2.857^{+0.654}_{-0.981}$	$2.966^{+0.189}_{-0.754}$	$0.179^{+0.326}_{-0.077}$
	+3%/-5%	+7%/-4%	+71%/-929%	+23%/-34%	+6%/-25%	+182%/-43%
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 006065699-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	$A_{obs}$
DV	$-24 \pm 2$	$1.40^{+0.22}_{-0.27}$	$5360^{+435}_{-492}$	$11370^{+971}_{-797}$	$13^{+6}_{-3}$
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  $A_{obs} \gg 1.0$

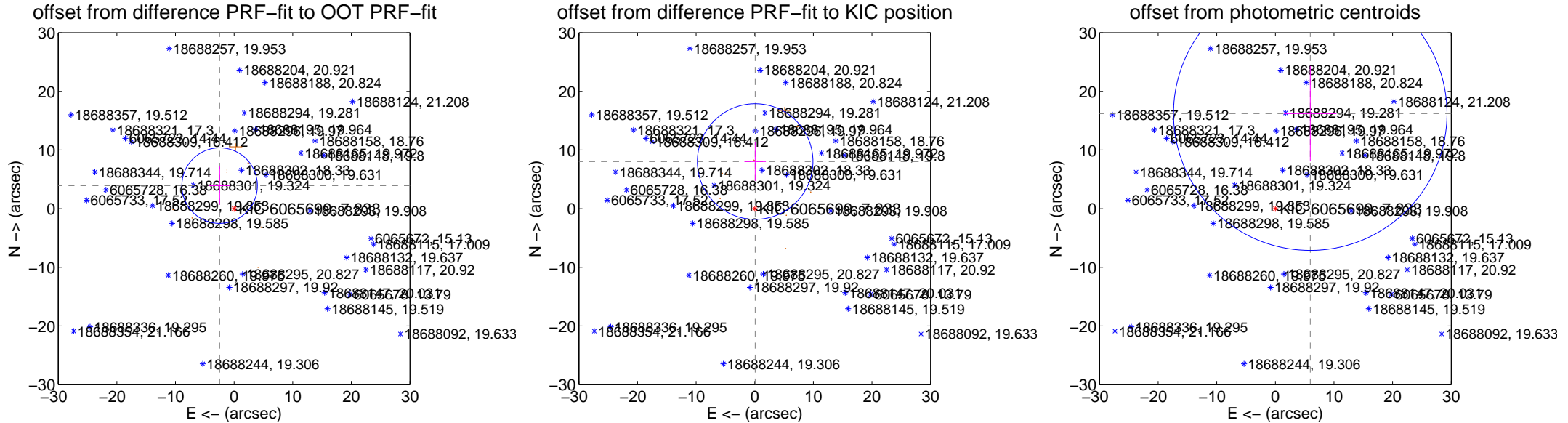
## DV Centroid Data

Supplemental centroid analysis for 006065699-05. **Kepler magnitude: 7.83.** Transit SNR 11.19

There are 0 quarters with good PRF difference image offsets

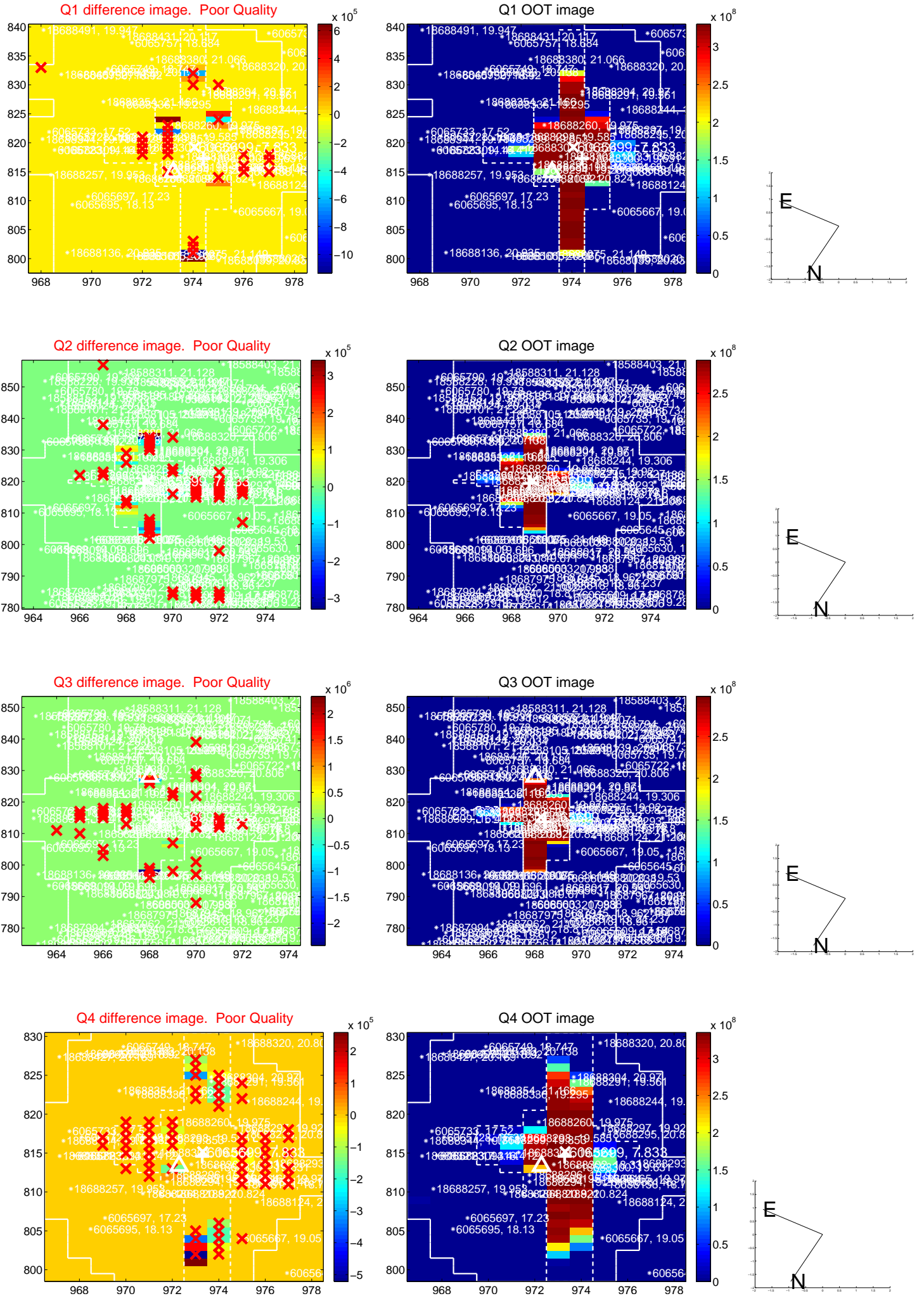
The OOT PRF centroid is offset from the target star catalog position by about 7.89 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	$4.638 \pm 2.148$	2.16	$2.468 \pm 1.839$	$3.928 \pm 3.260$
PRF-fit source offset from KIC position	$8.035 \pm 3.287$	2.44	$-0.072 \pm 1.838$	$8.035 \pm 3.275$
photometric centroid source offset	$17.27 \pm 7.78$	2.22	$-5.95 \pm 4.48$	$16.21 \pm 8.12$



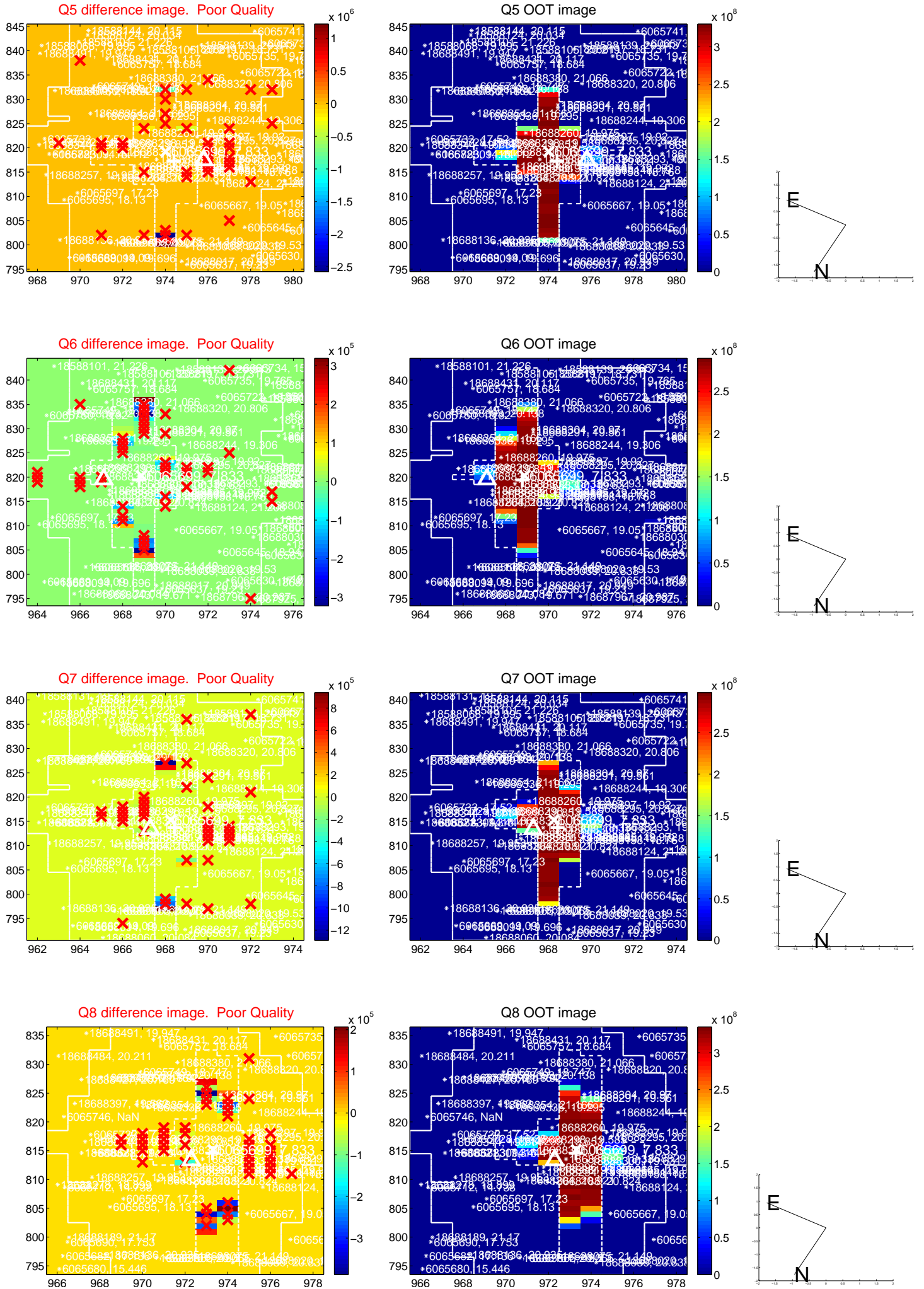
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: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

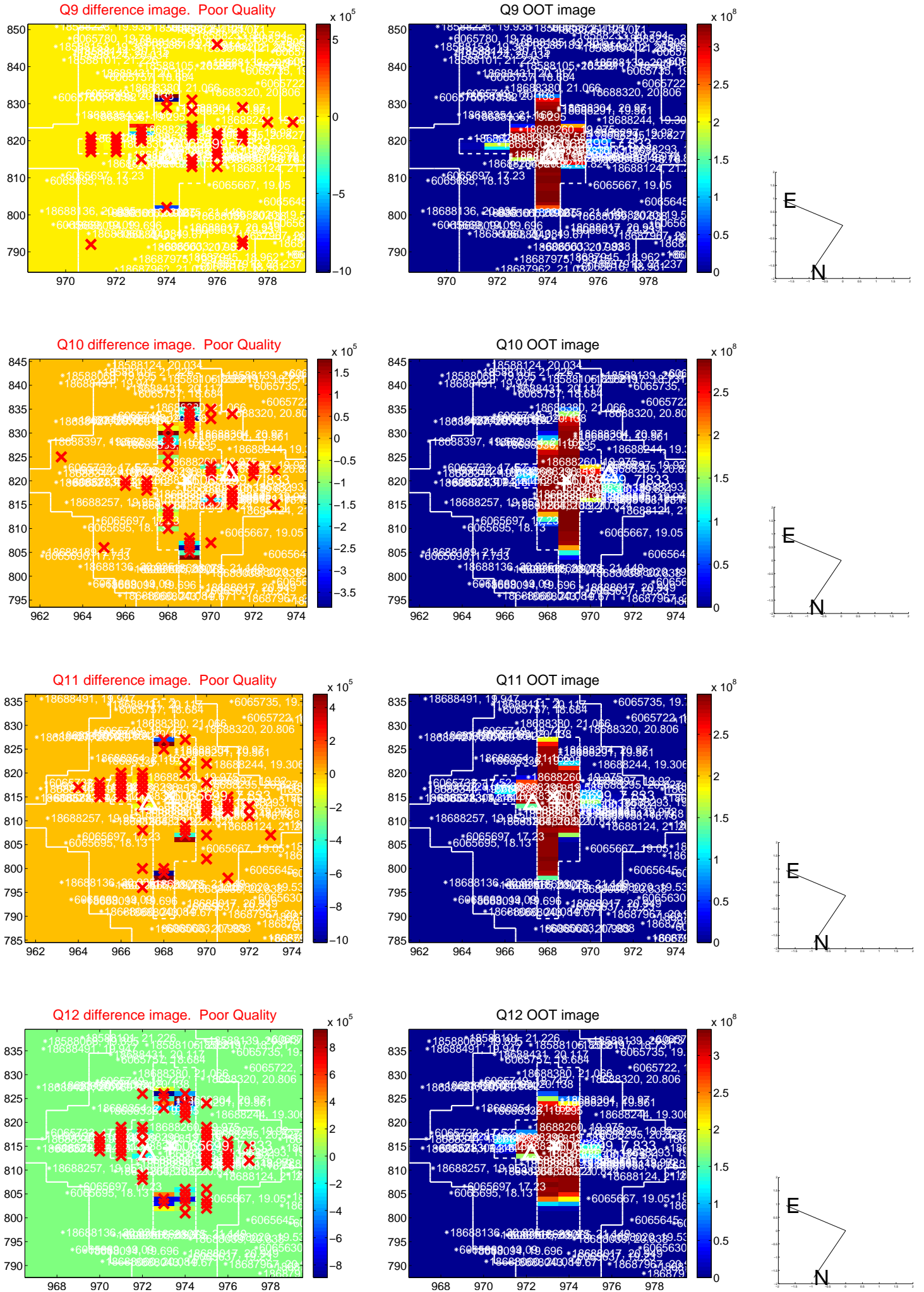




white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.

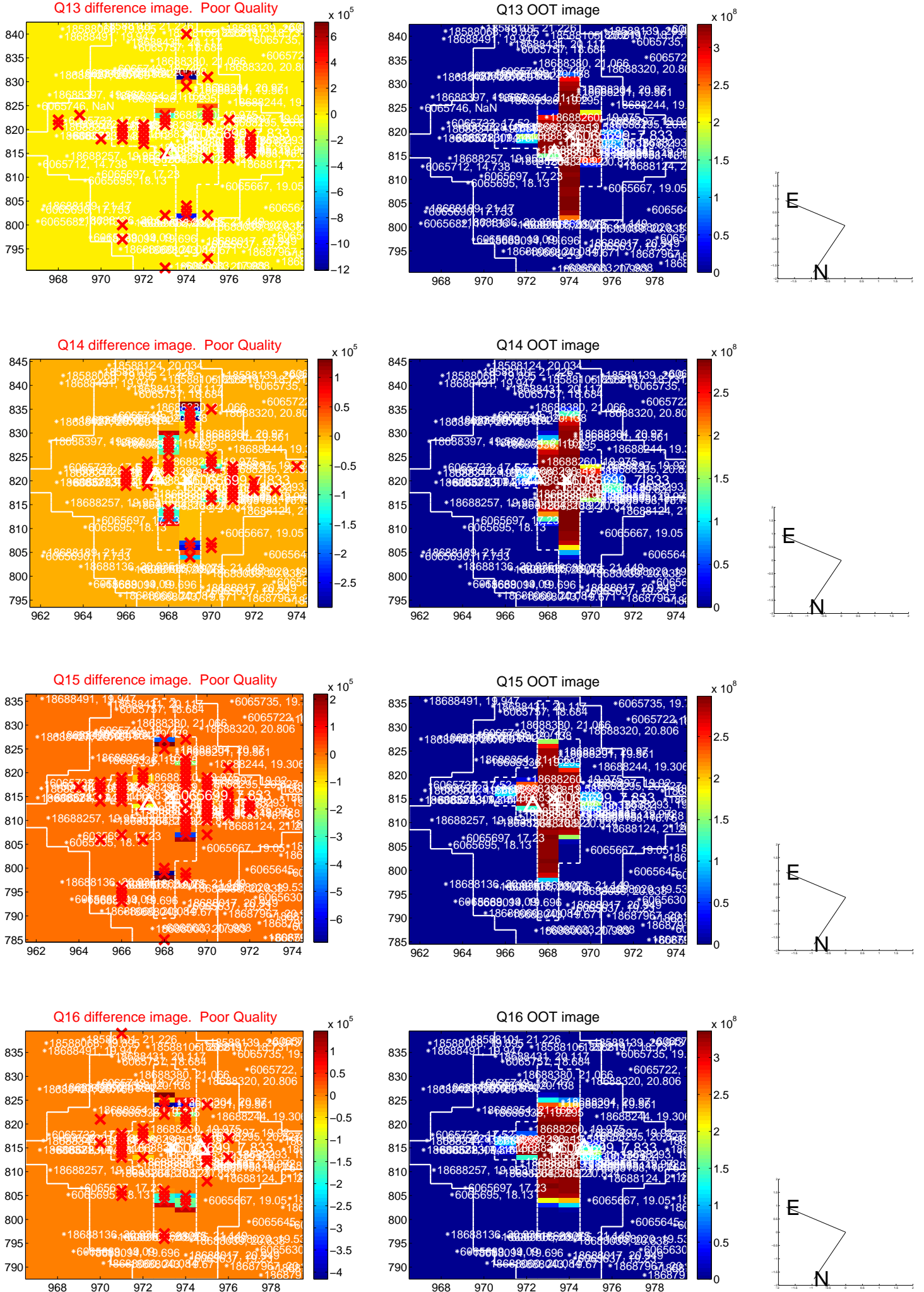


white  $\times$ : KIC target position; +: OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.

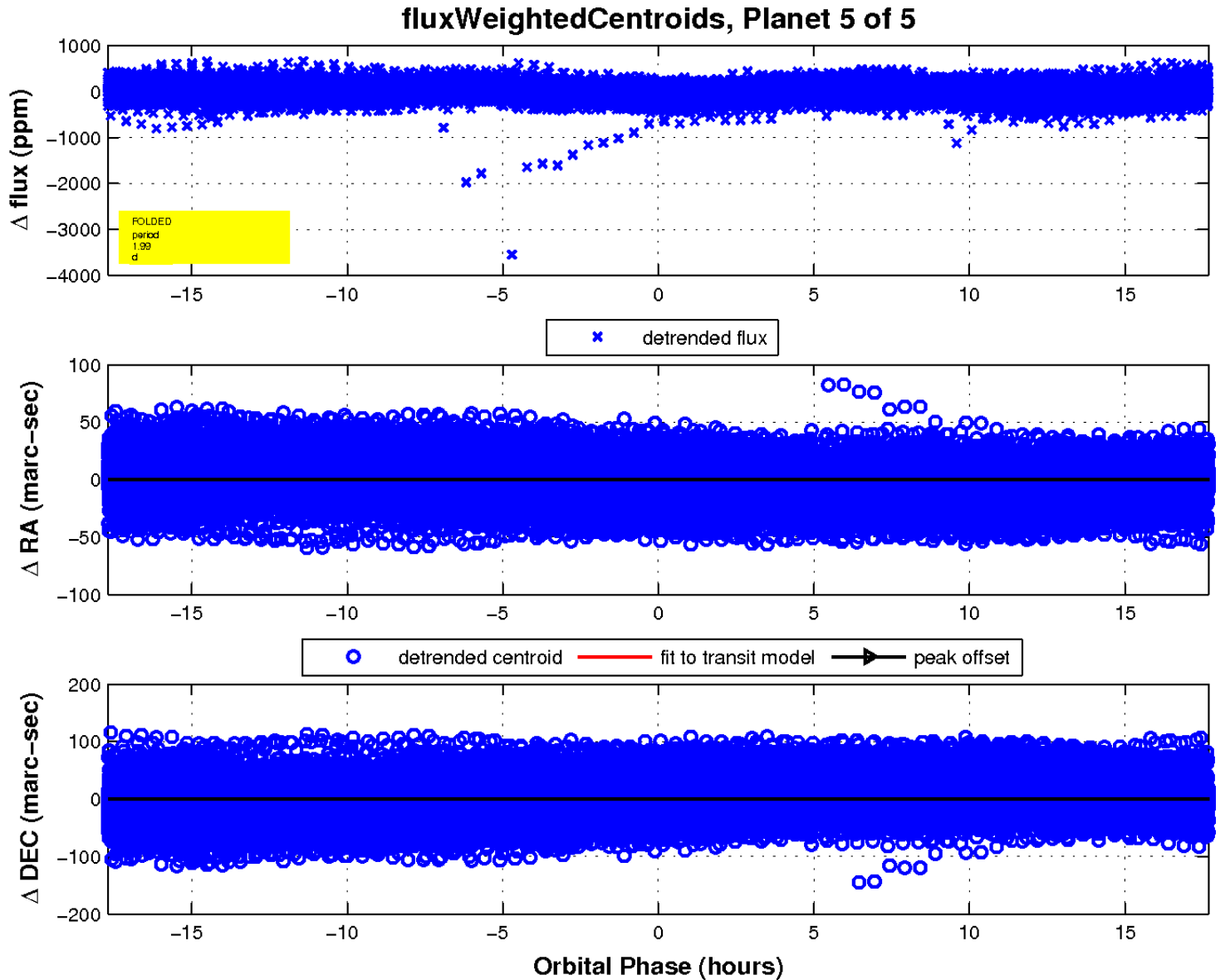
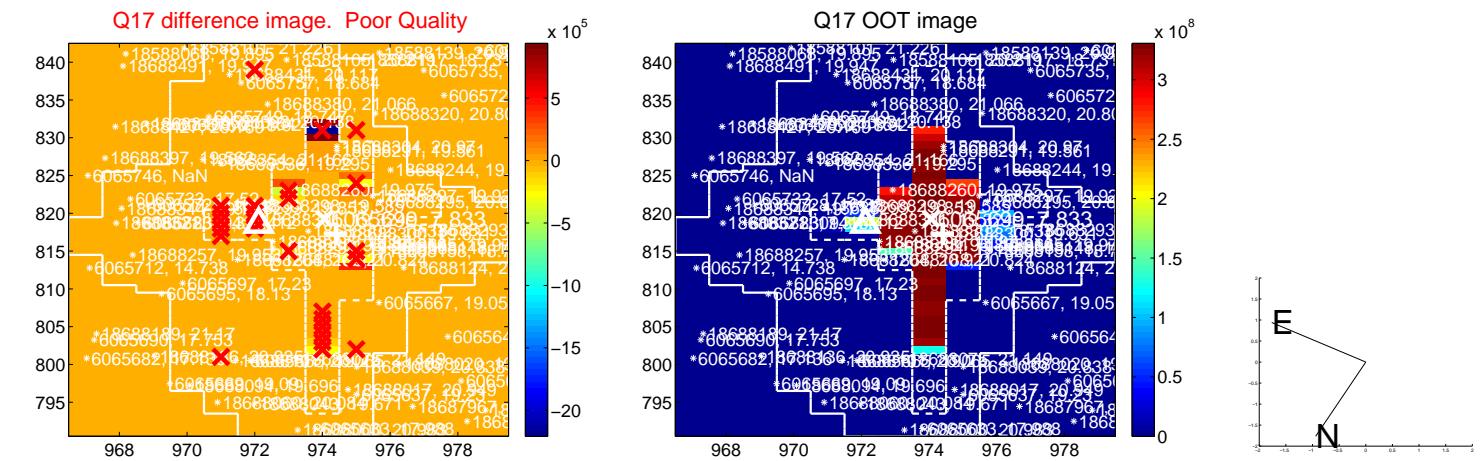




white  $\times$ : KIC target position; +: OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



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



UKIRT Image

Declination

