

KIC 008264075

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})
008264075-01	OBS	No	0.665089	132.091437	42.1	1.837	10.3	4.1	2.12	7872	1.59	46433.47
008264075-02	OBS	No	0.646726	131.618387	83.4	1.196	8.1	5.9	2.12	7872	2.26	48199.67
008264075-03	OBS	No	34.691226	138.911002	1154.1	16.184	7.3	7.0	2.12	7872	8.32	238.26
008264075-04	OBS	No	24.493160	136.621490	1255.1	12.948	7.4	7.2	2.12	7872	9.15	378.98
008264075-05	OBS	No	46.962667	149.061556	2568.1	9.365	9.0	7.0	2.12	7872	19.45	159.10
008264075-06	OBS	No	328.845738	138.601439	456.2	3.500	8.2	-1.0	2.12	7872	4.60	11.88

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264075-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
008264075-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—HALO_GHOST
008264075-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

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

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

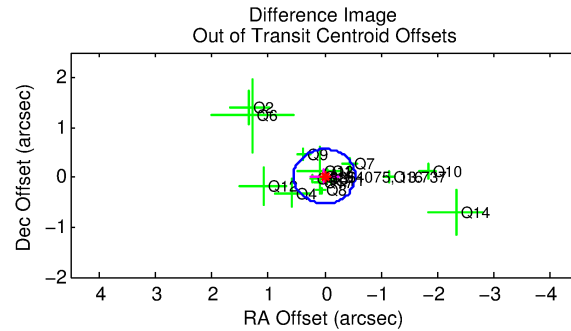
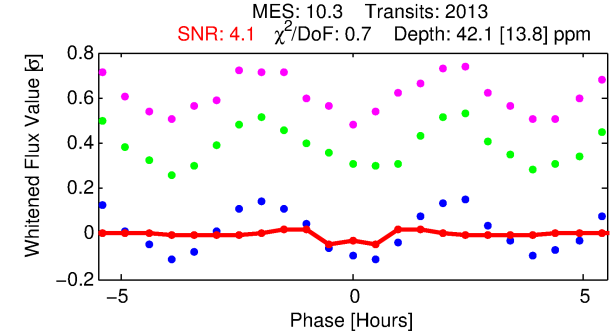
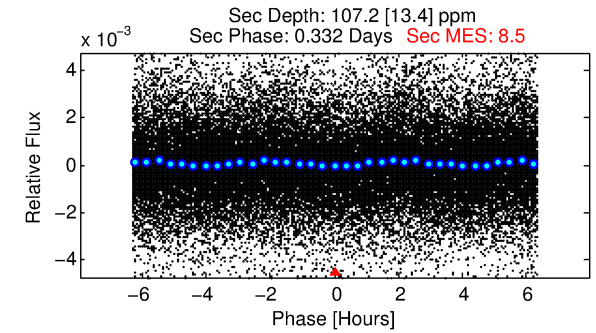
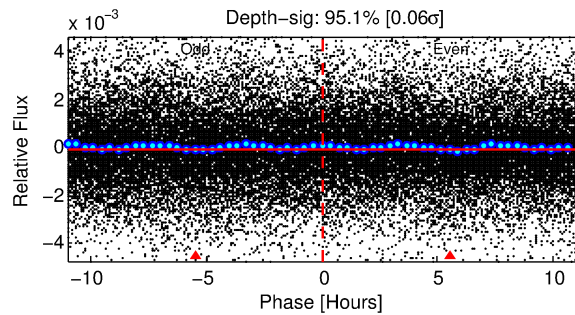
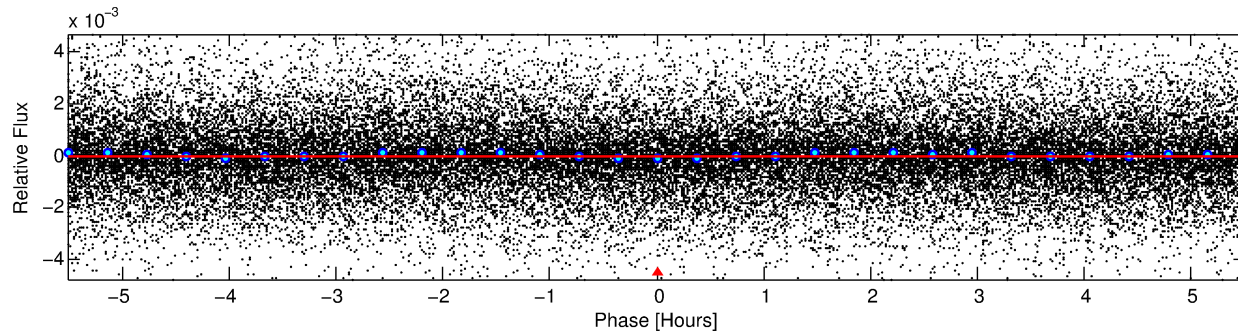
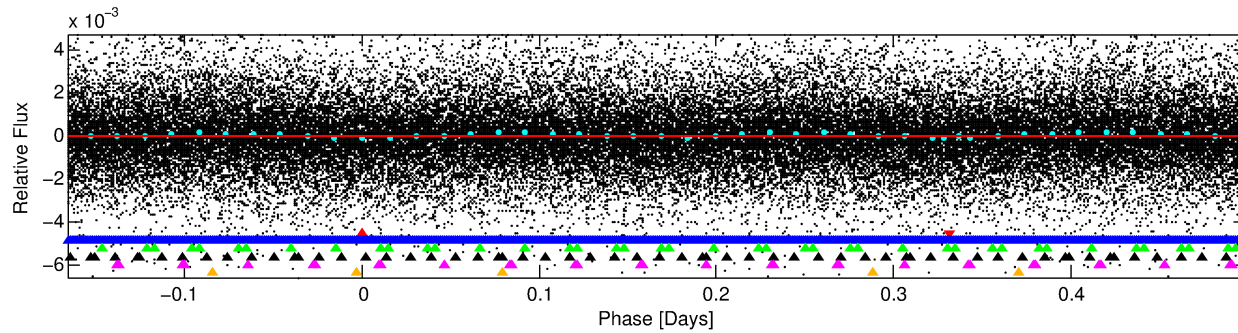
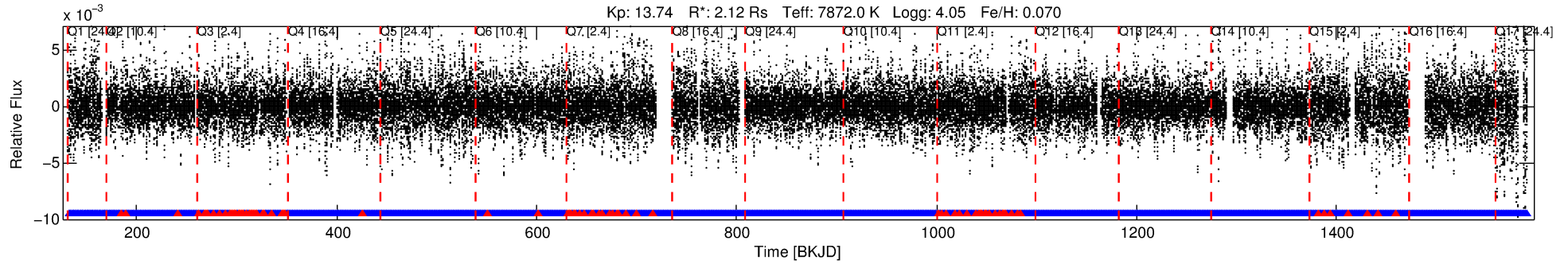
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264075-01

No Significant Match Found

DV One-Page Summary

KIC: 8264075 Candidate: 1 of 6 Period: 0.665 d



DV Fit Results:

Period = 0.66509 [0.00002] d
Epoch = 132.0914 [0.0027] BKJD
Rp/R* = 0.0069 [0.0031]
a/R* = 1.58 [2.56]
b = 0.89 [0.61]
Seff = 46433.47 [15320.97]
Teff = 3743 [309] K
Rp = 1.59 [0.81] Re
a = 0.0183 [0.0035] AU
Ag = 7.75 [7.38] [0.91 σ]
Teffp = 9657 [2241] K [2.61 σ]

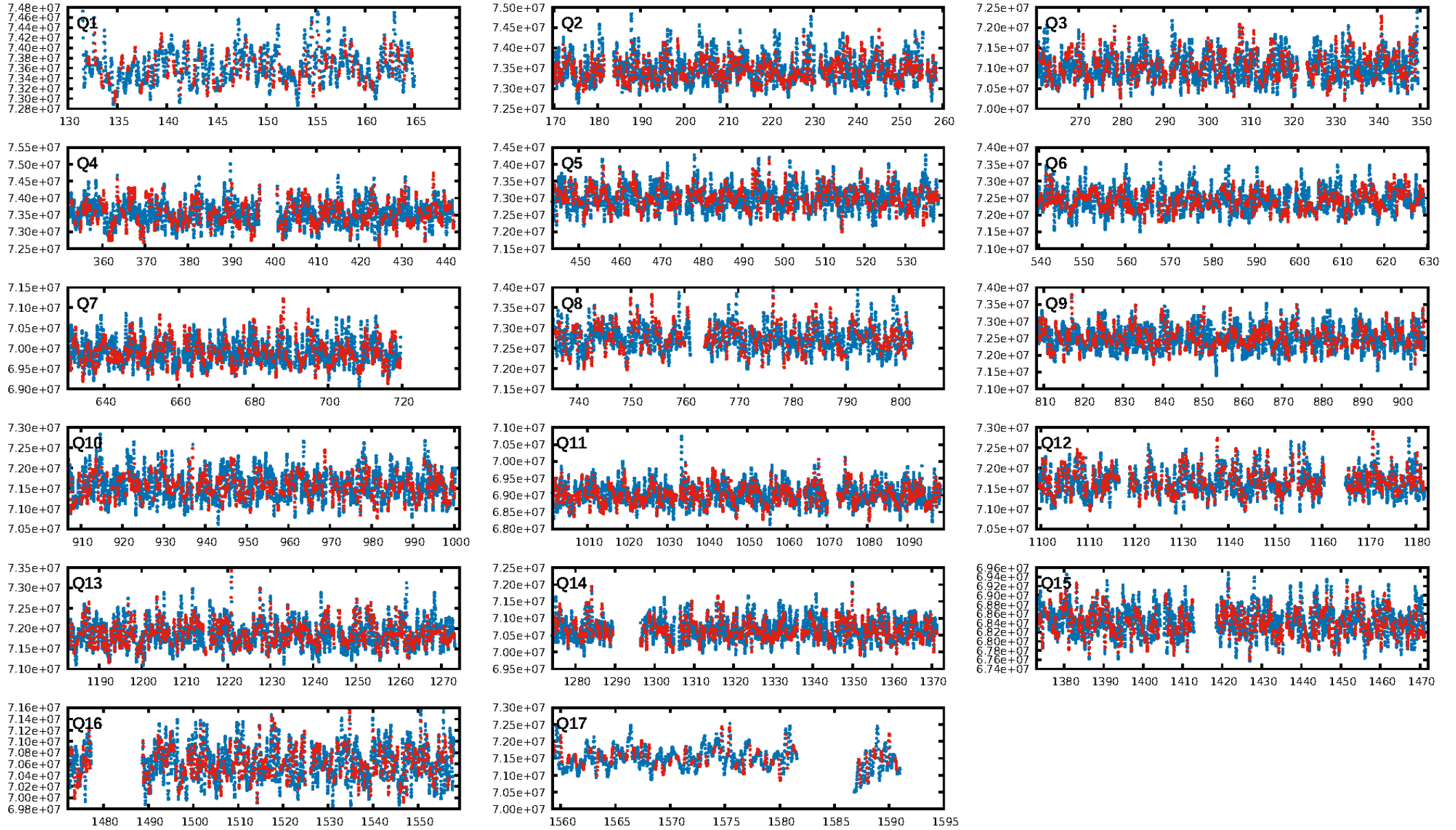
DV Diagnostic Results:

ShortPeriod-sig: 15.9% [0.20 σ]
LongPeriod-sig: 100.0% [43.73 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.95 [1829/1923]
GhostDiagnostic-chr: 0.872
Centroid-sig: 12.7%
Centroid-so: 1.083 arcsec [1.18 σ]
OotOffset-rm: 0.015 arcsec [0.09 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.038 arcsec [0.15 σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.59 [10/17]
DiffImageOverlap-fno: 1.00 [17/17]

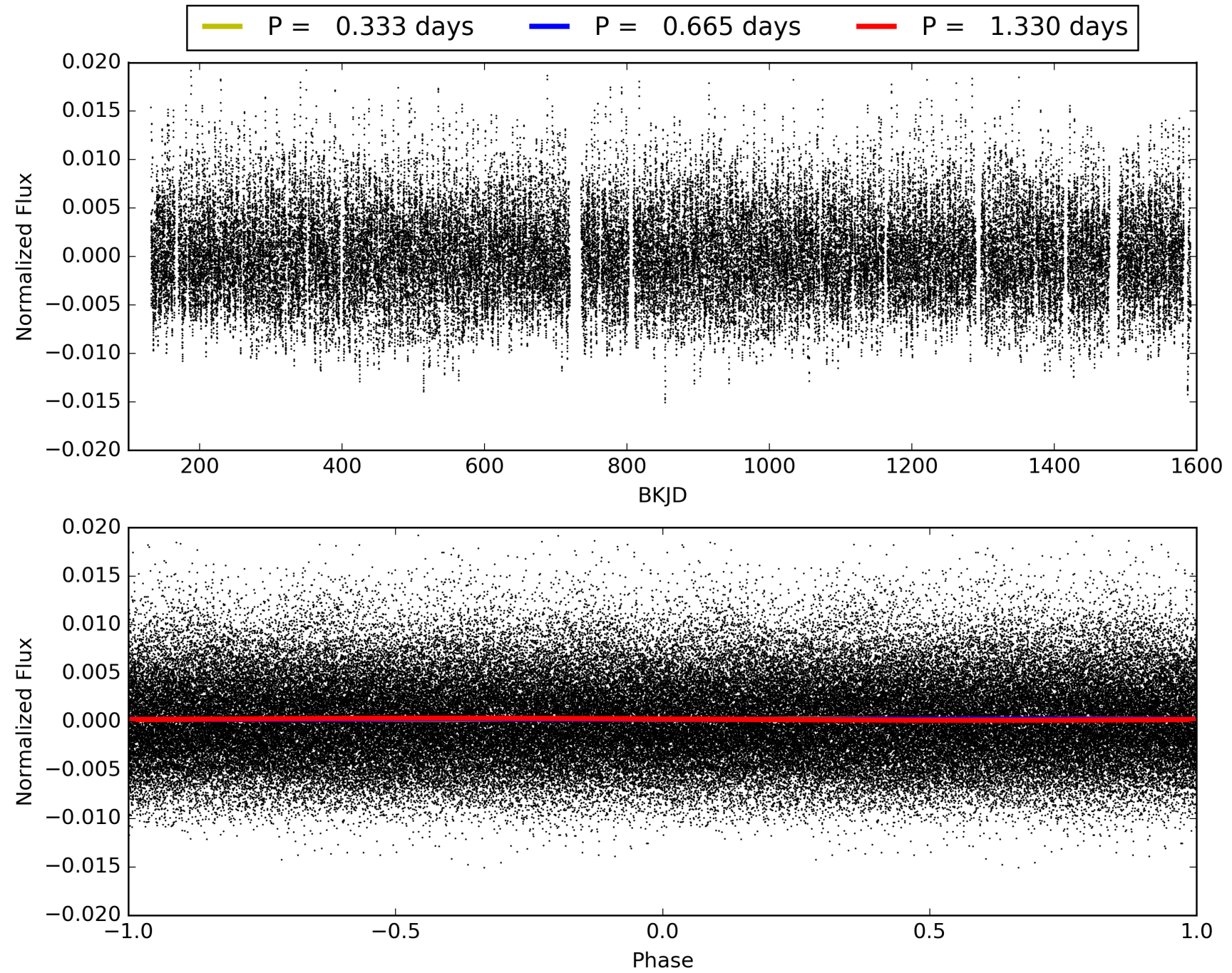
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008264075-01, PDC Light Curves

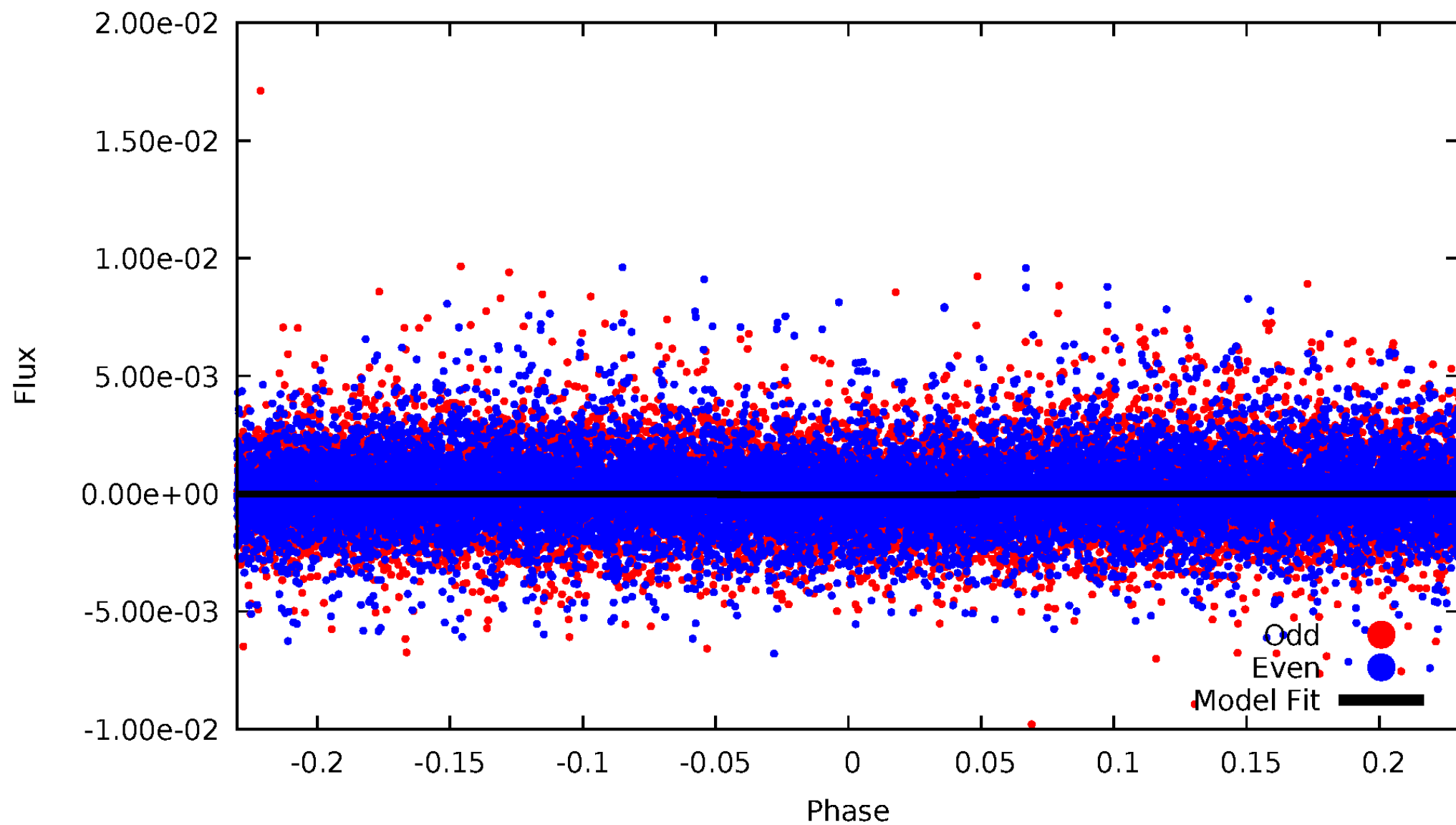


TCE 008264075-01



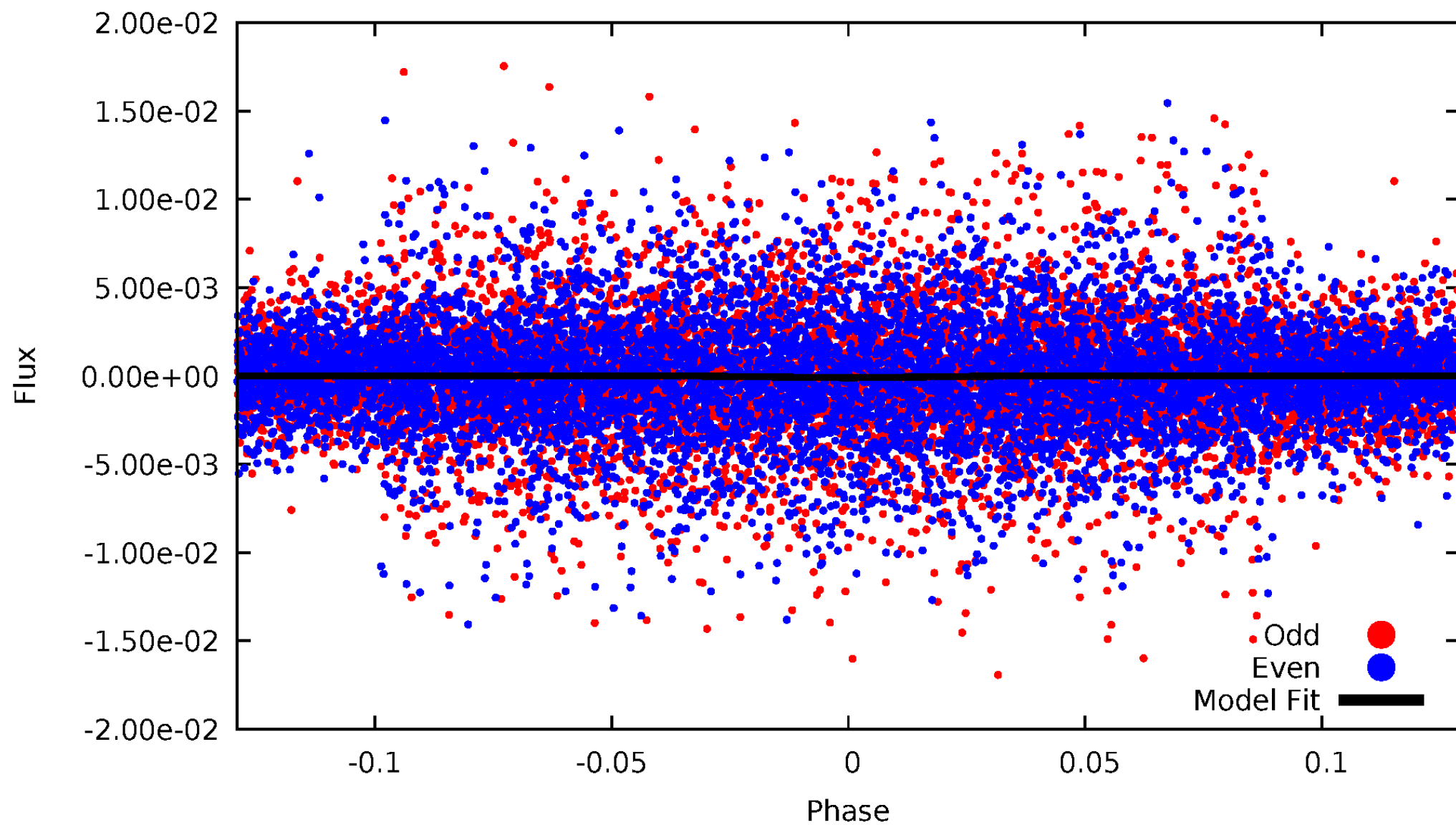
DV Odd/Even

TCE 008264075-01

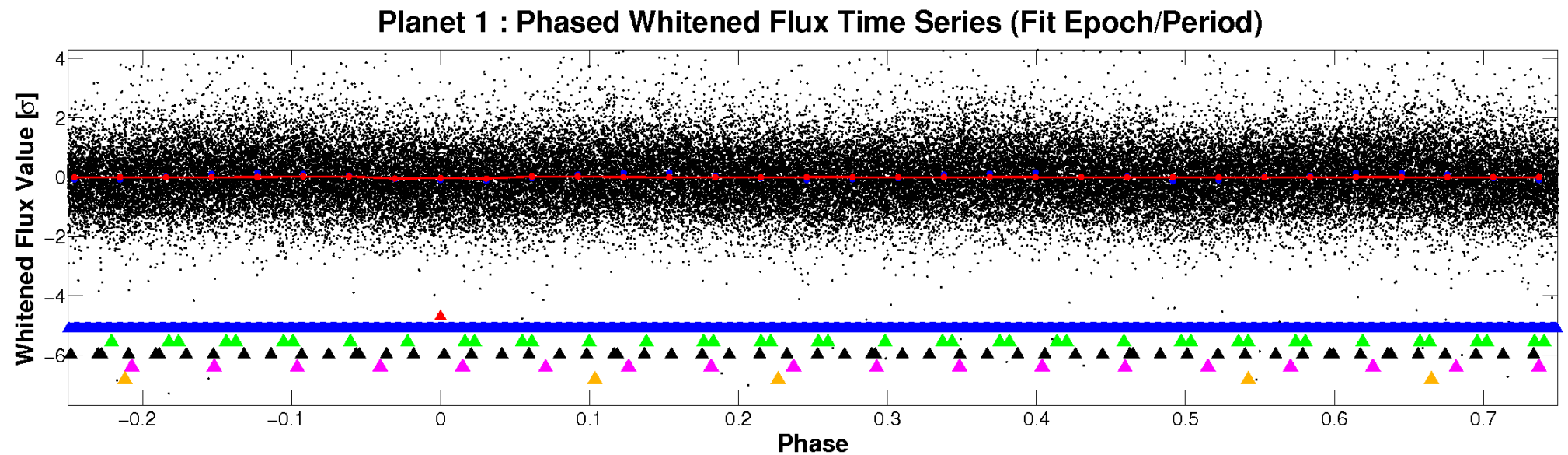
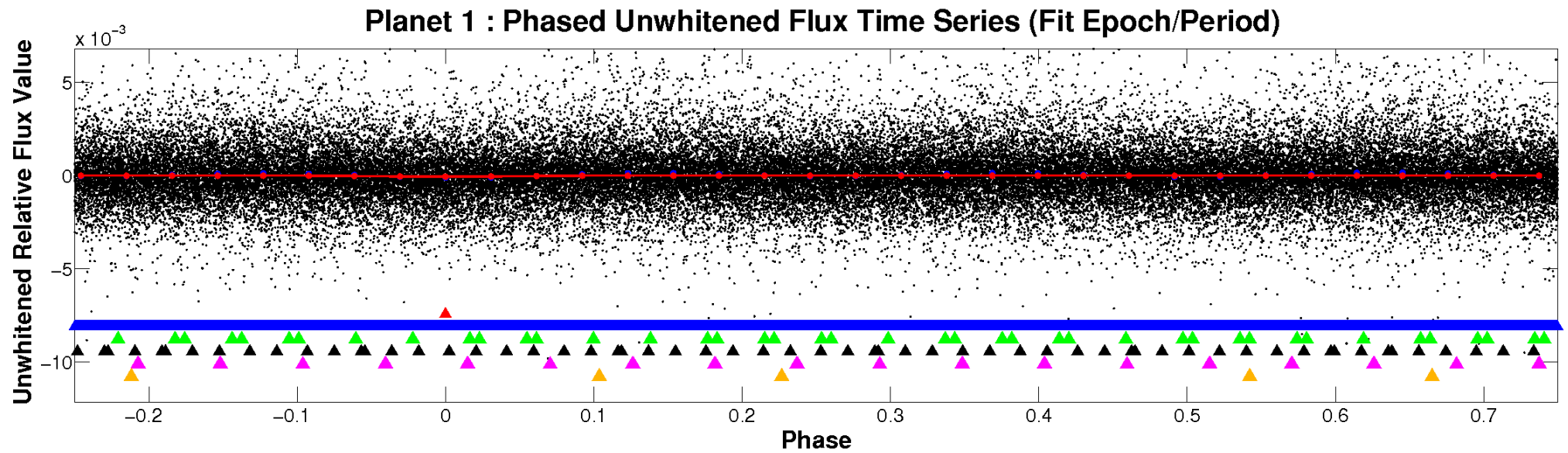


ALT Odd/Even

TCE 008264075-01

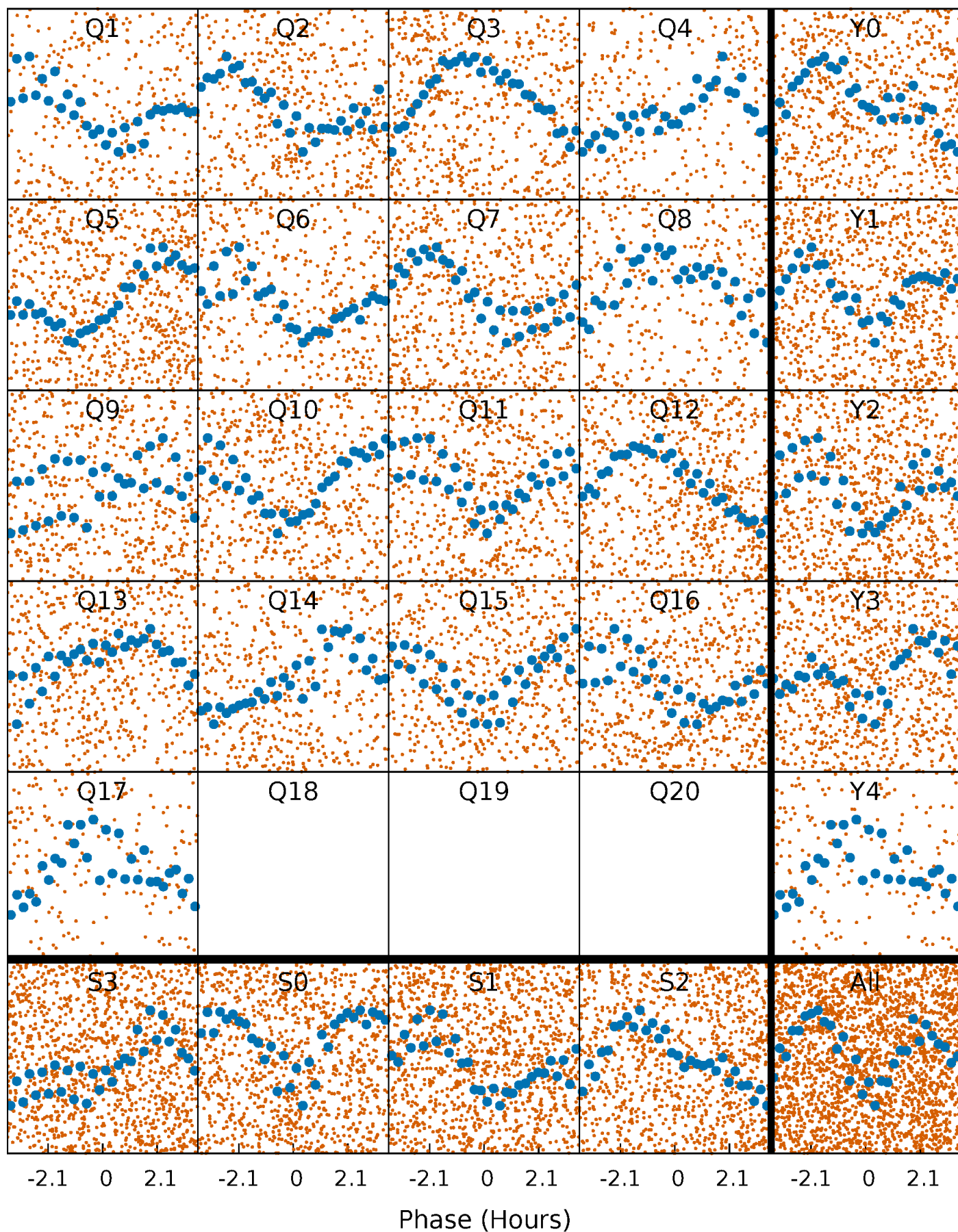


Non-Whitened Vs. Whitened Light Curve



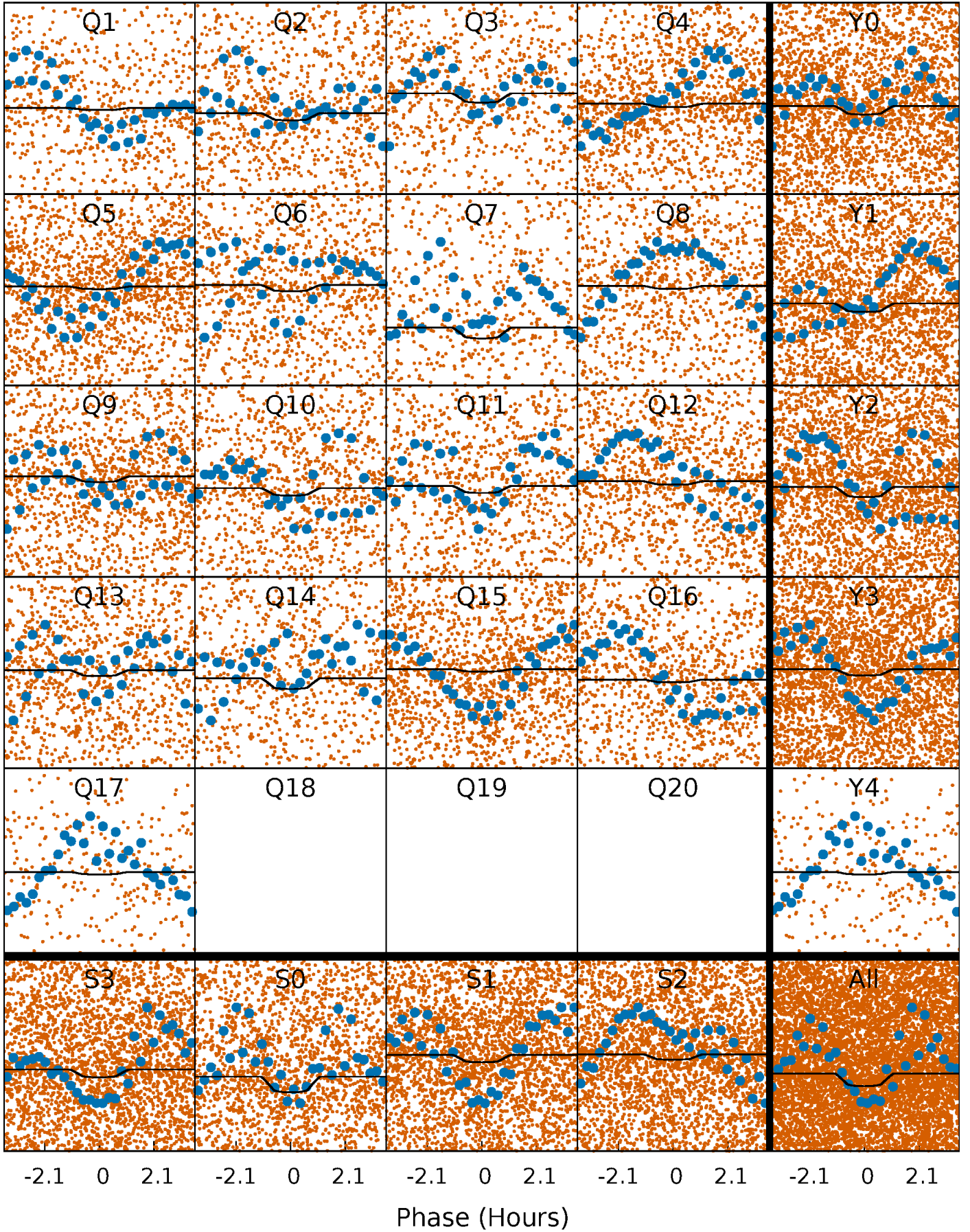
PDC Quarter-Phased Transit Curves

TCE 008264075-01 P= 0.665089 Days $T_0=132.091437$ (BKJD)



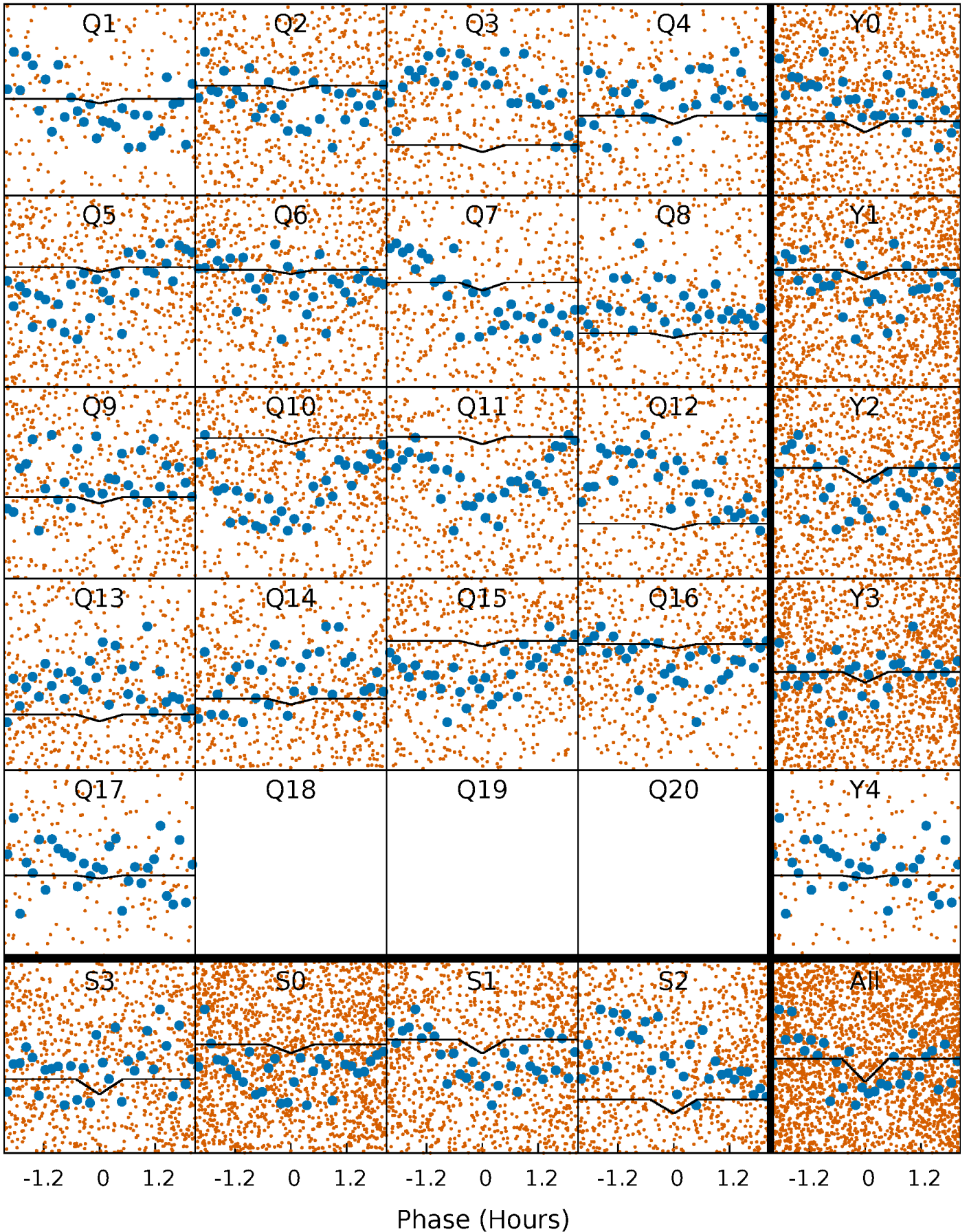
DV Quarter-Phased Transit Curves

TCE 008264075-01 P= 0.665089 Days $T_0=132.091437$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

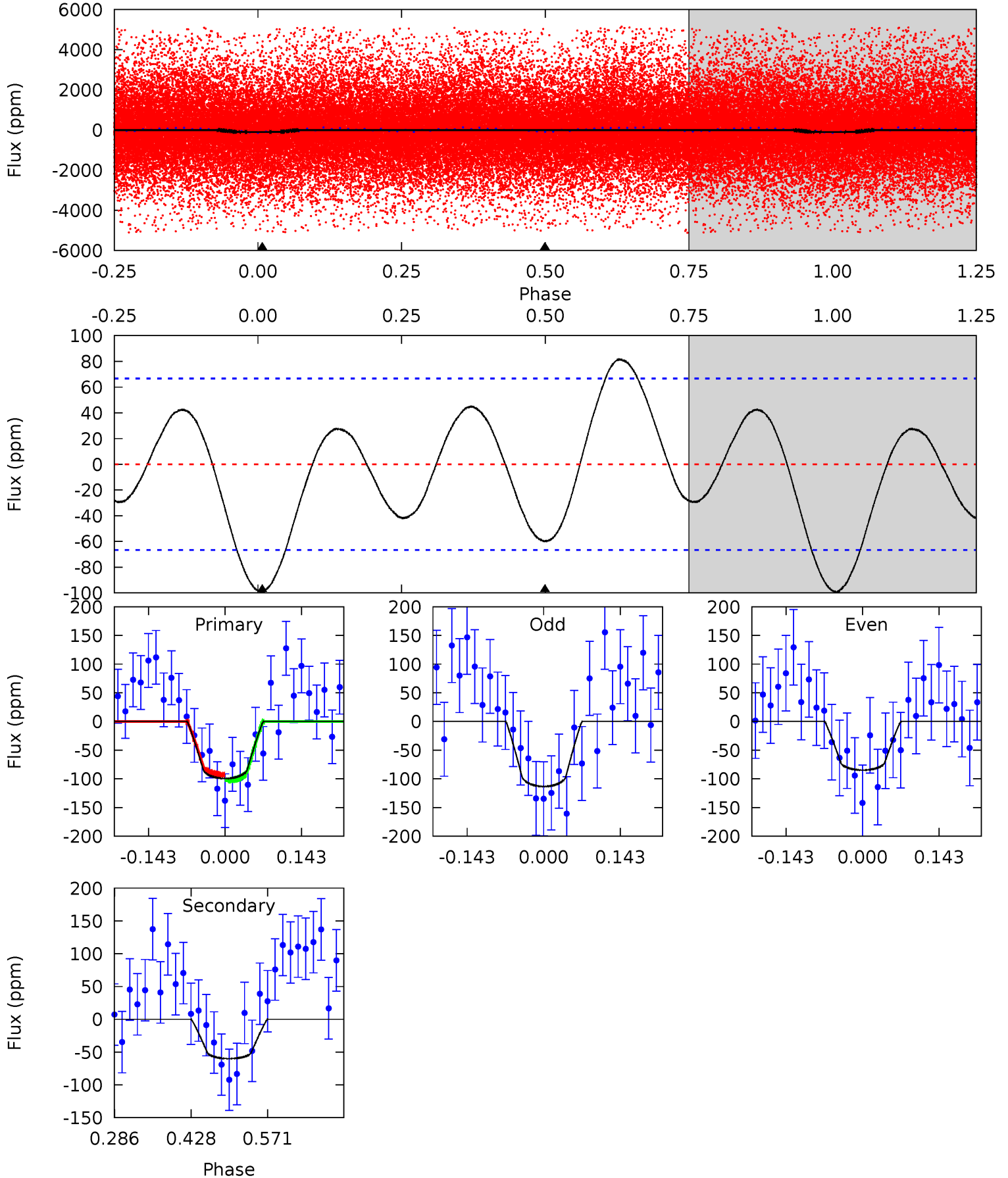
TCE 008264075-01 P= 0.665100 Days $T_0=132.087081$ (BKJD)



DV Model-Shift Uniqueness Test

008264075-01, P = 0.665089 Days, E = 131.426348 Days

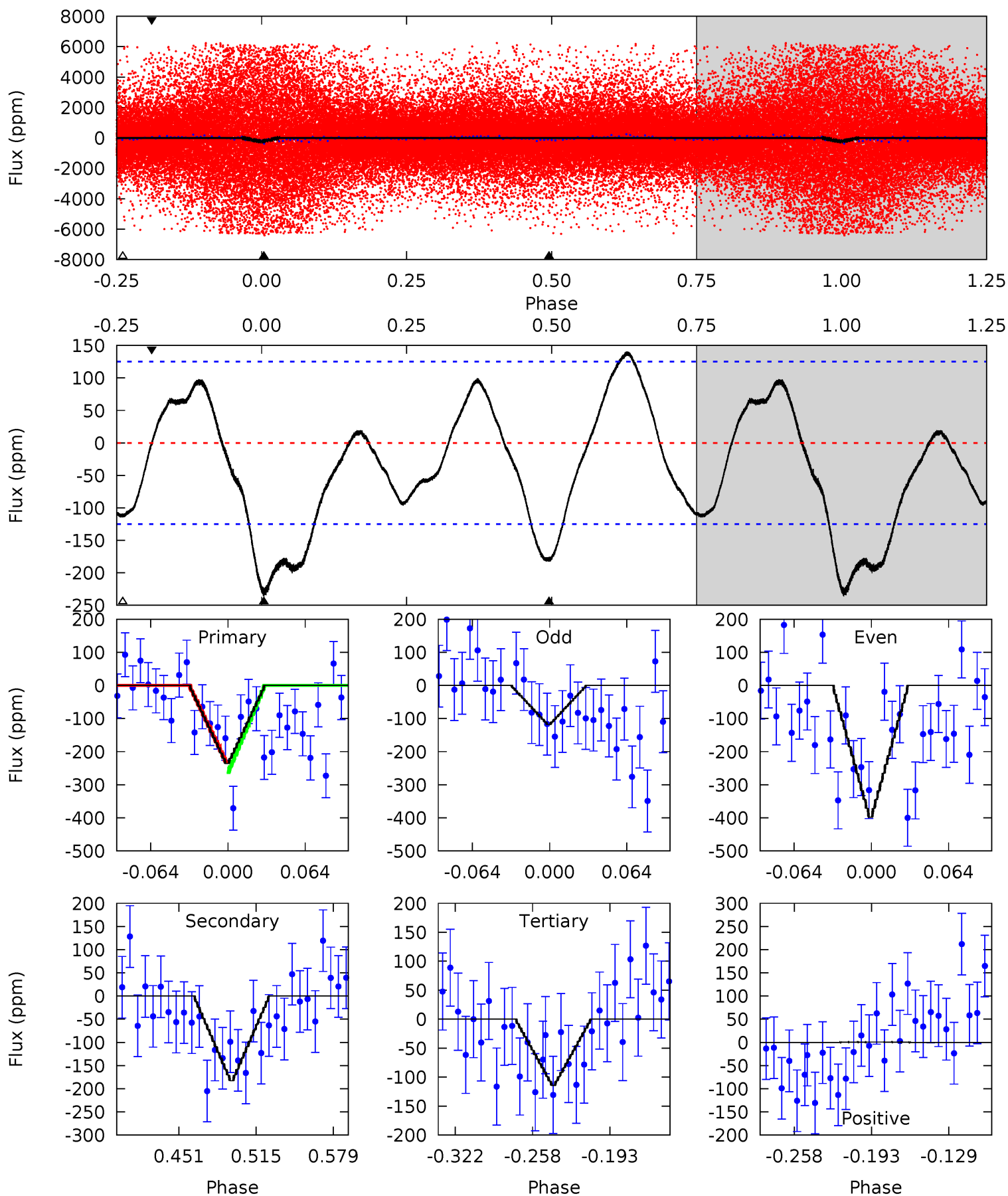
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.70	4.05	0	0	4.49	1.47	2.12	6.70	6.70	4.05	4.05	0.97	1.13	0.45	0.34



Alt Model-Shift Uniqueness Test

008264075-01, P = 0.665100 Days, E = 131.421981 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.80	6.80	4.26	0.03	4.66	1.85	2.72	4.54	8.77	2.54	6.78	5.10	0.78	0.37	0.62



Stellar Parameters For KIC 008264075

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7872^{+216}_{-351}	$4.049^{+0.150}_{-0.150}$	$0.070^{+0.200}_{-0.350}$	$2.124^{+0.494}_{-0.494}$	$1.841^{+0.147}_{-0.319}$	$0.271^{+0.216}_{-0.111}$
	+3%/-4%	+4%/-4%	+286%/-500%	+23%/-23%	+8%/-17%	+80%/-41%
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 008264075-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-60 ± 15	$1.58^{+0.72}_{-0.67}$	5245^{+328}_{-352}	8248^{+4129}_{-1804}	$4.095^{+8.899}_{-2.147}$
Alt.	-183 ± 27	$2.34^{+0.78}_{-0.78}$	5204^{+344}_{-346}	9275^{+3079}_{-1703}	$5.930^{+7.503}_{-2.743}$

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 $A_{obs} \gg 1.0$

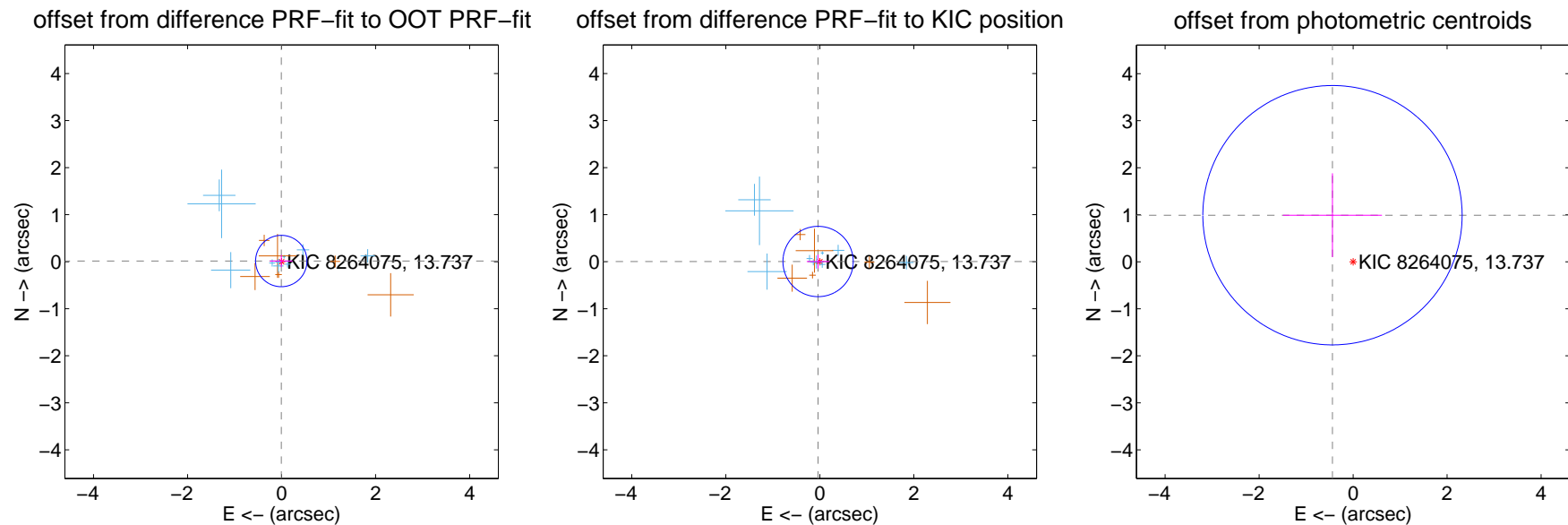
DV Centroid Data

Supplemental centroid analysis for 008264075-01. Kepler magnitude: 13.74. Transit SNR 4.07

There are 10 quarters with good PRF difference image offsets

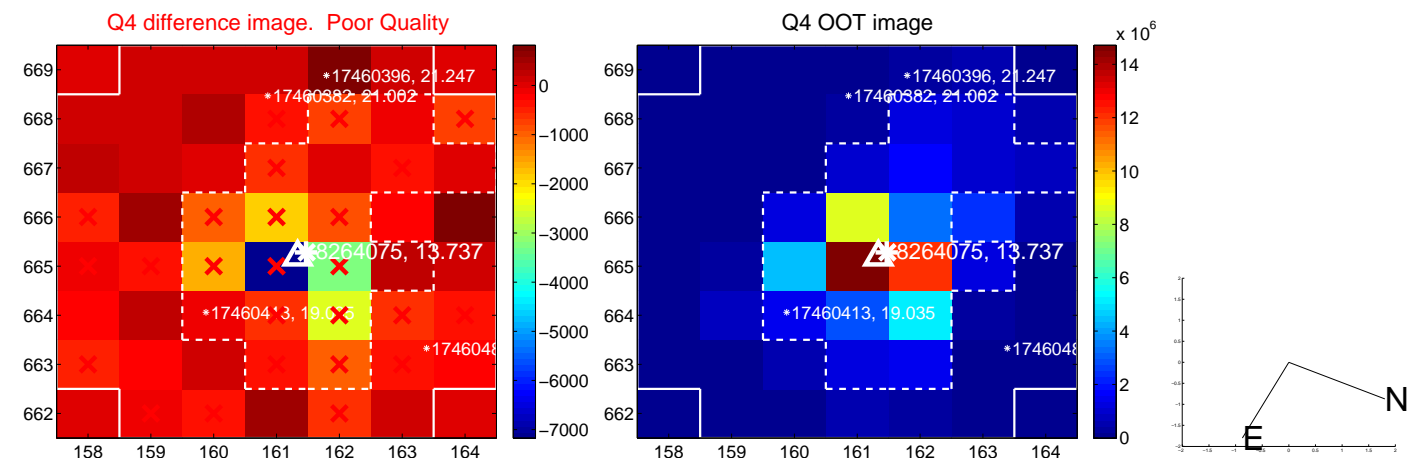
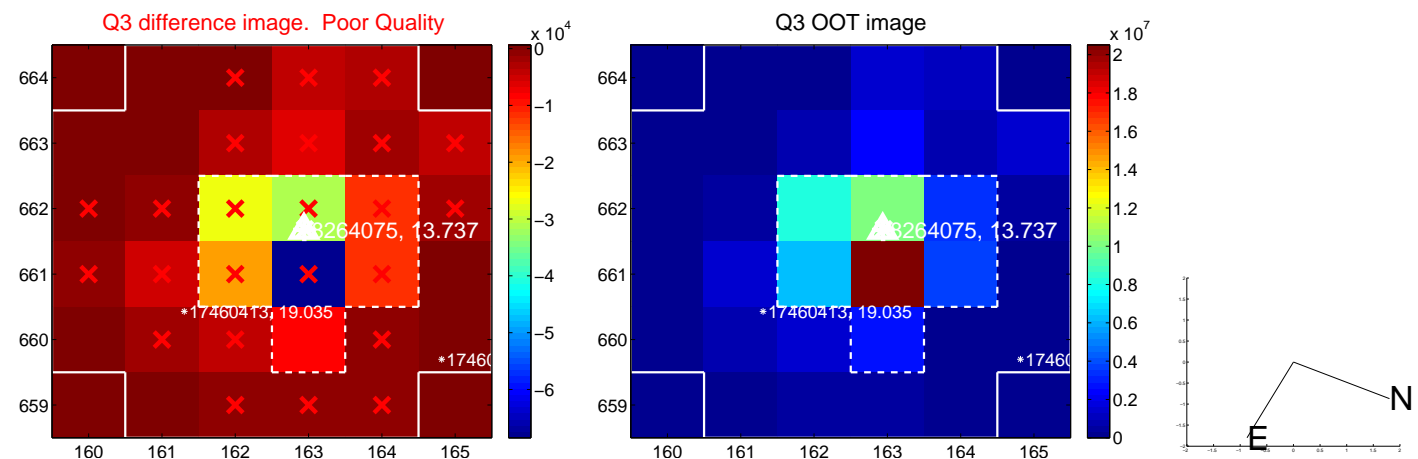
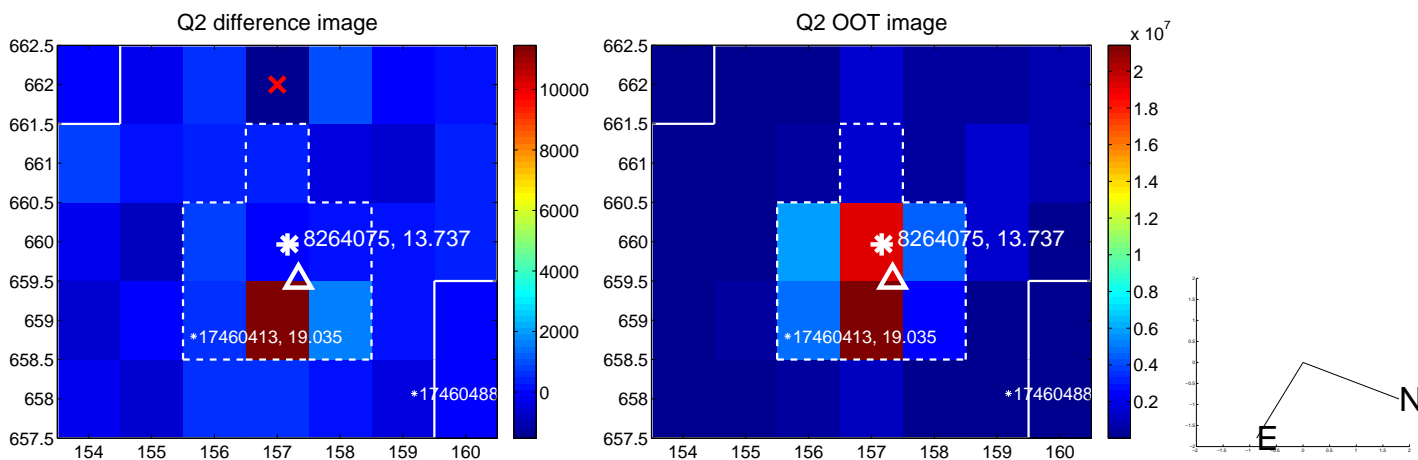
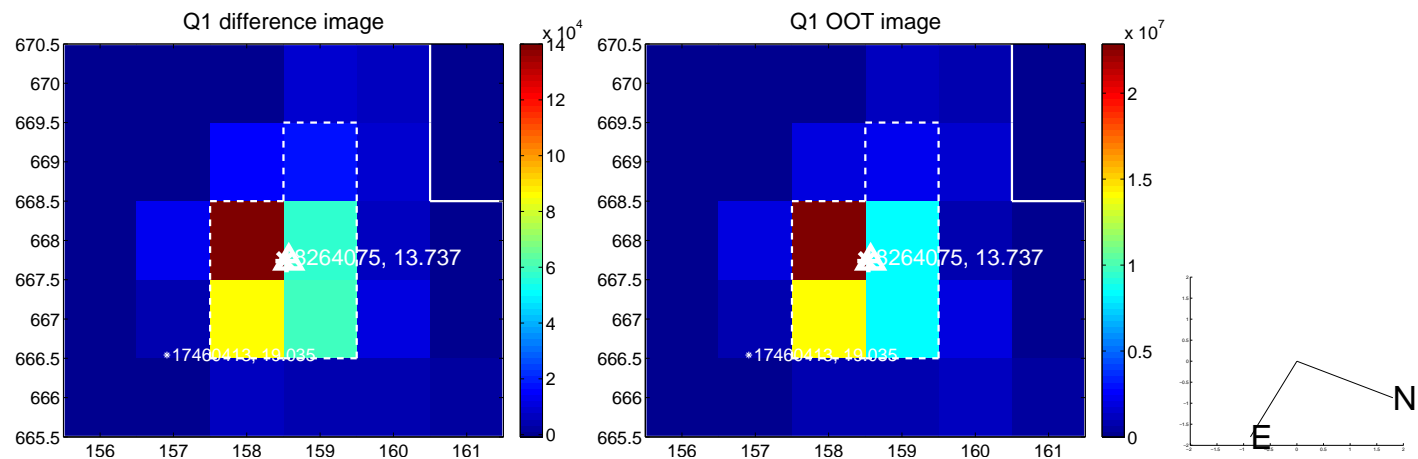
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.015 ± 0.182	0.09	0.006 ± 0.241	0.014 ± 0.129
PRF-fit source offset from KIC position	0.038 ± 0.249	0.15	0.038 ± 0.241	0.004 ± 0.148
photometric centroid source offset	1.08 ± 0.92	1.18	0.44 ± 1.05	0.99 ± 0.89

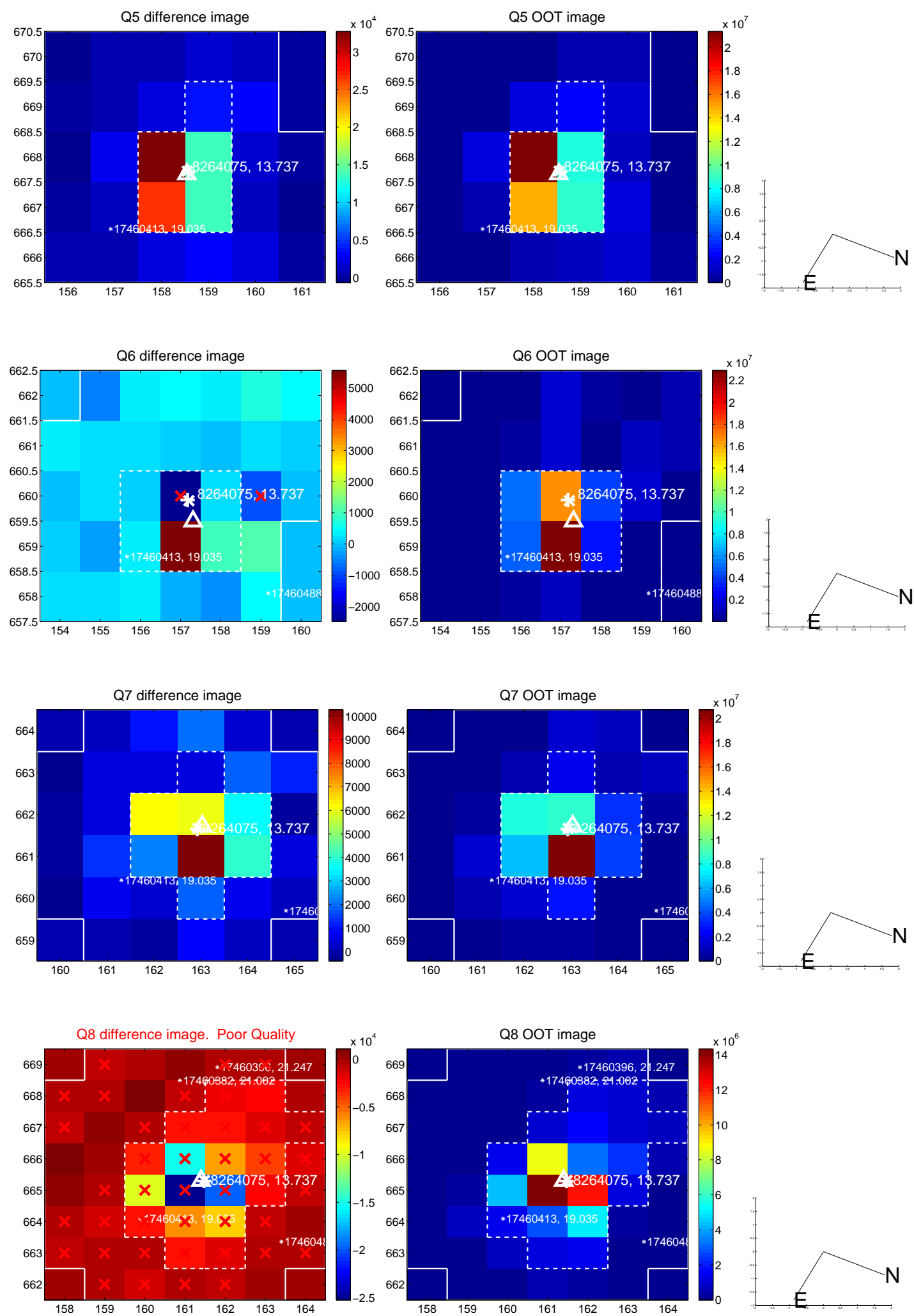


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

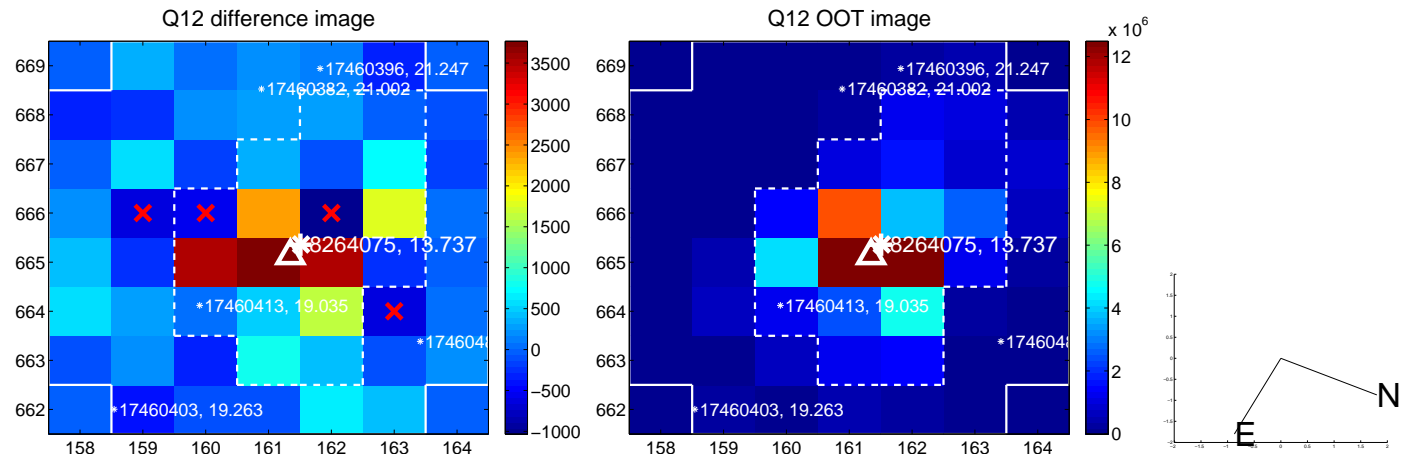
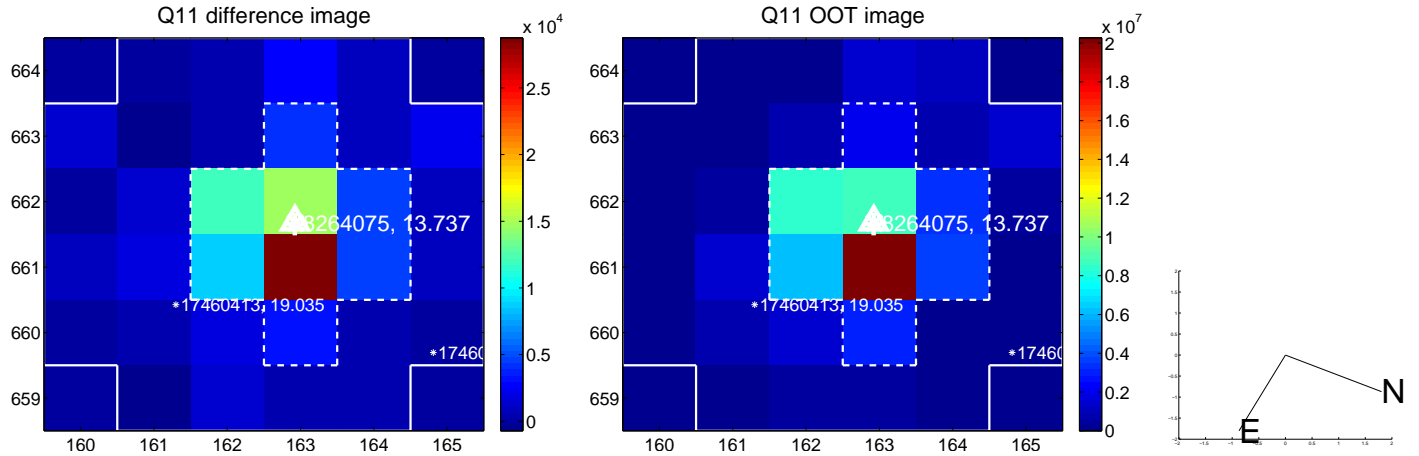
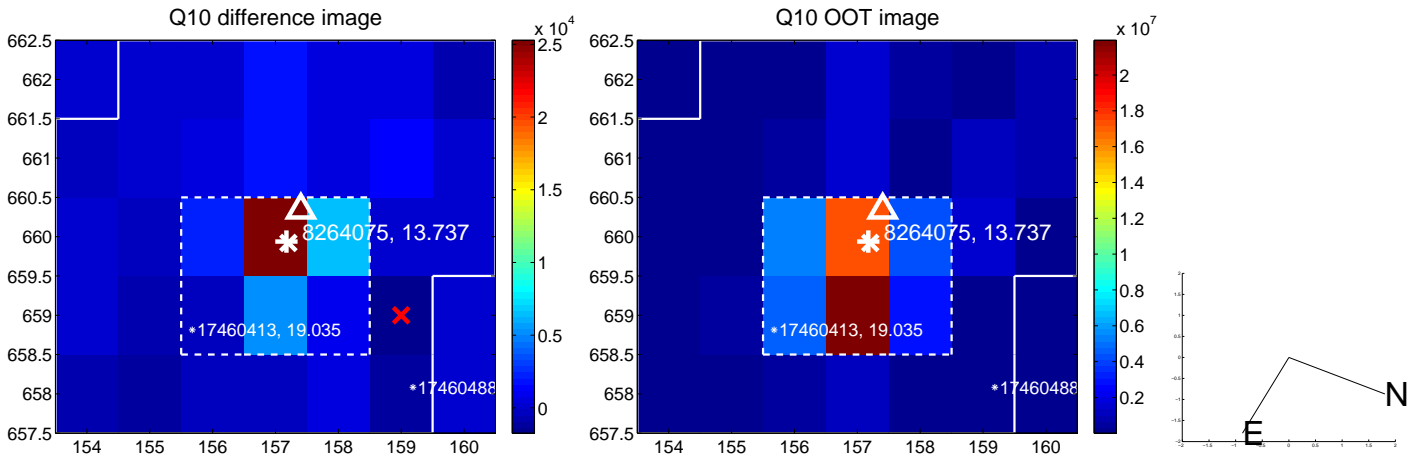
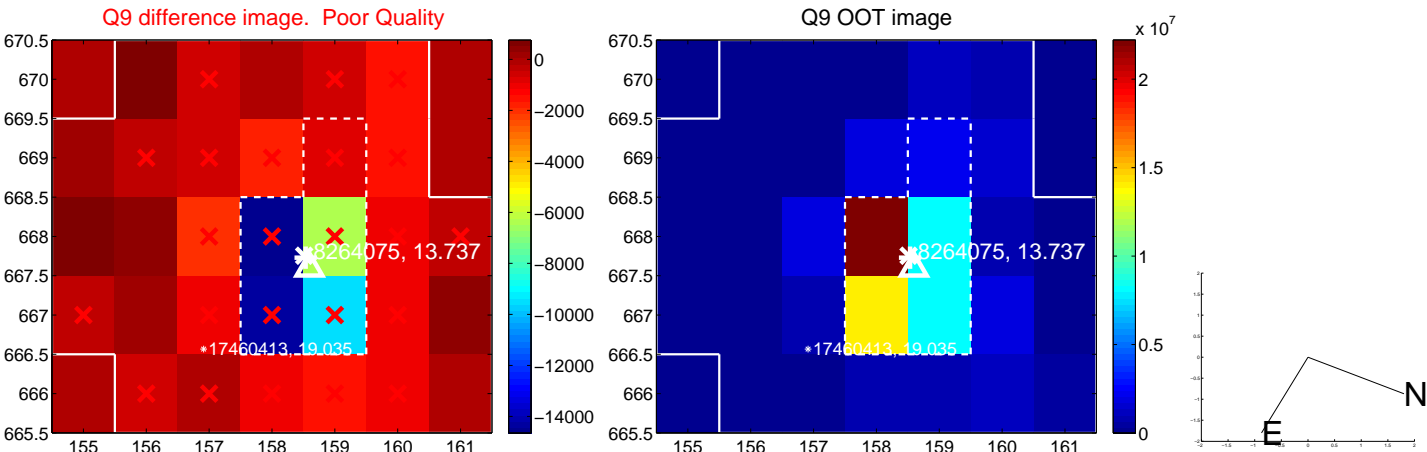
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



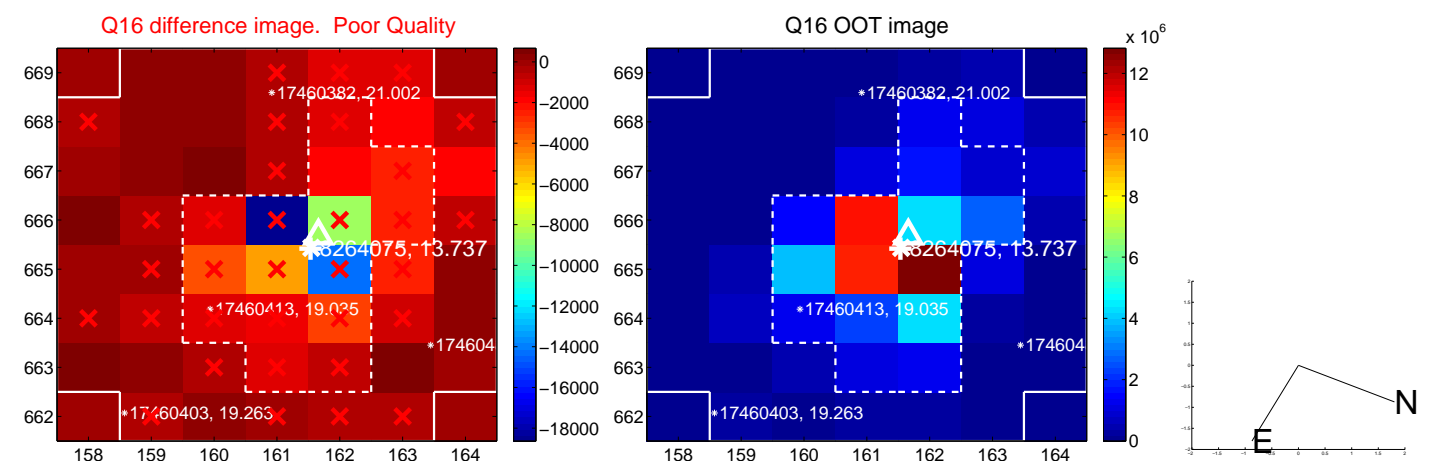
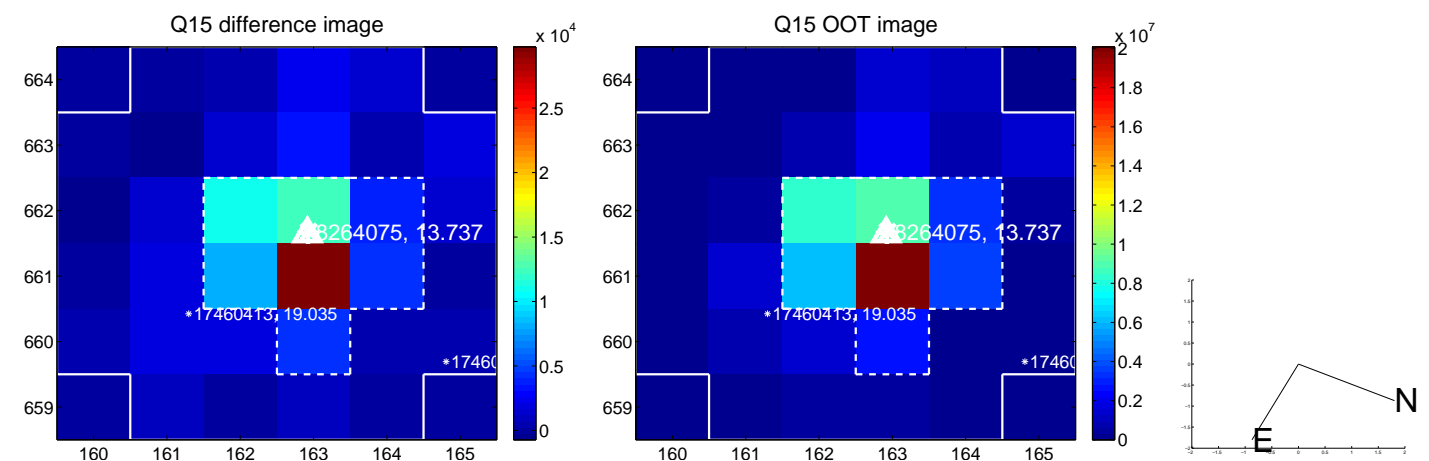
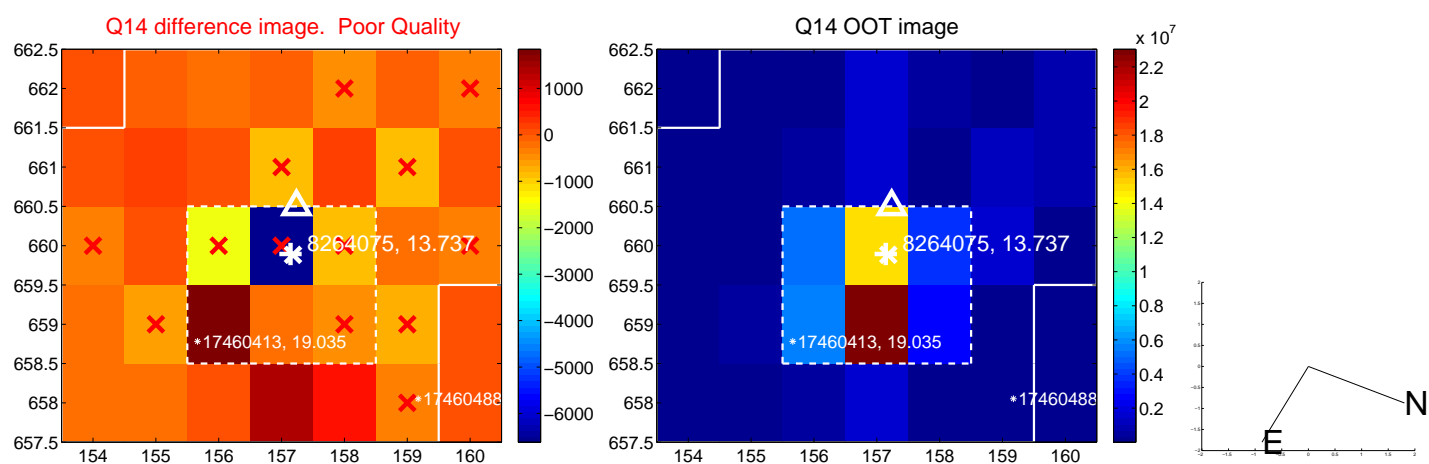
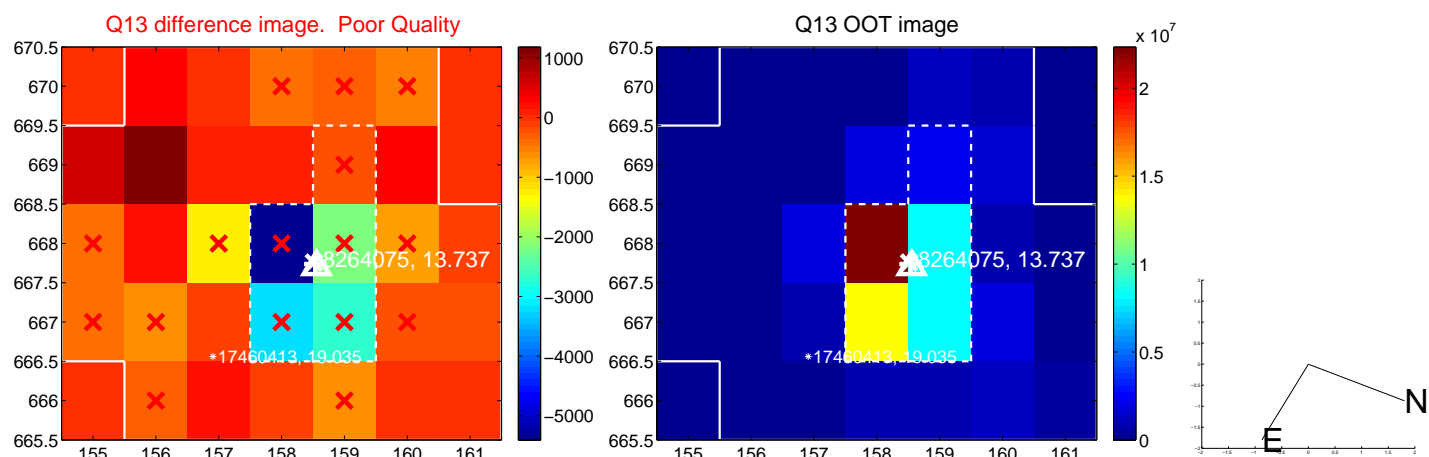
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



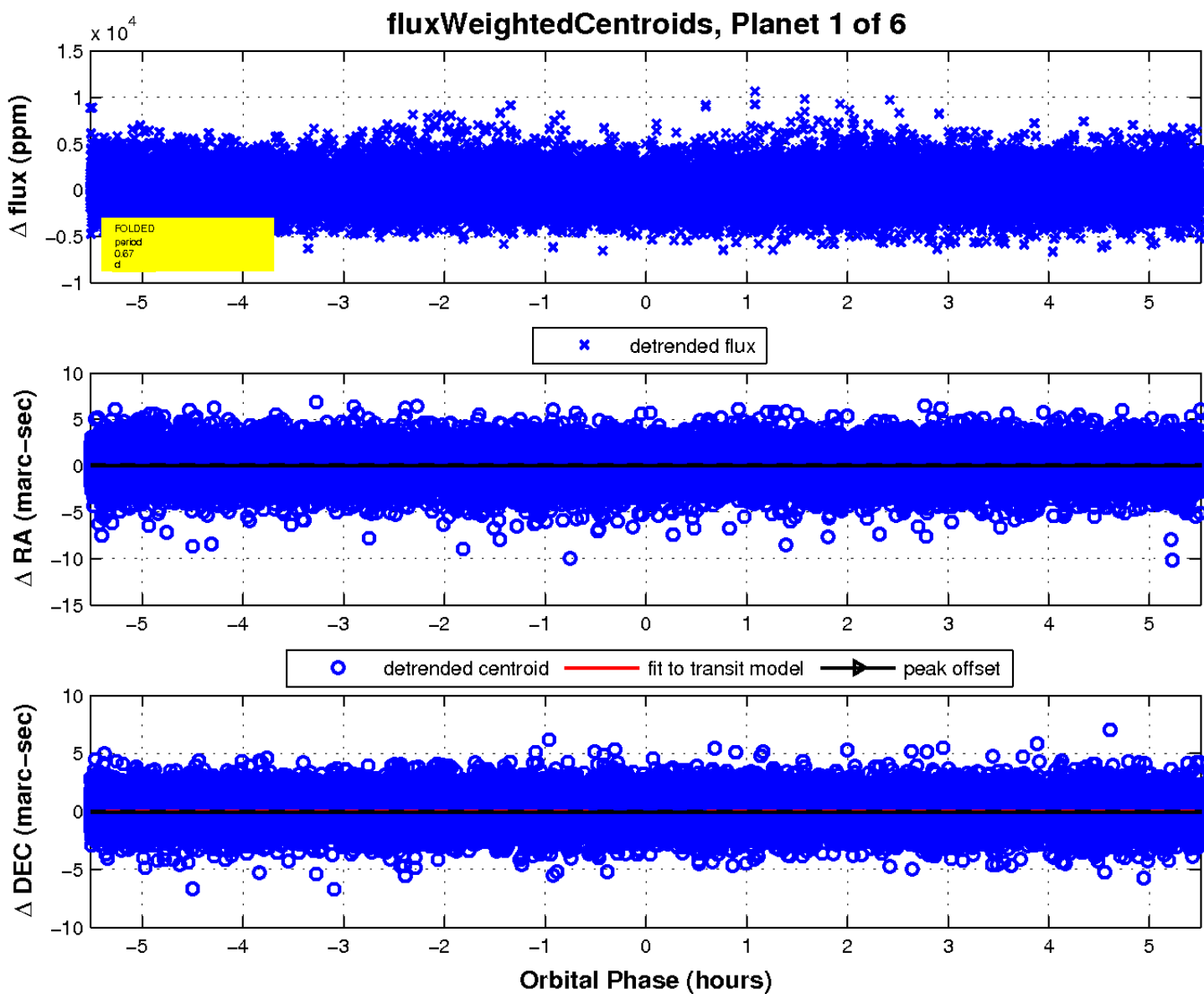
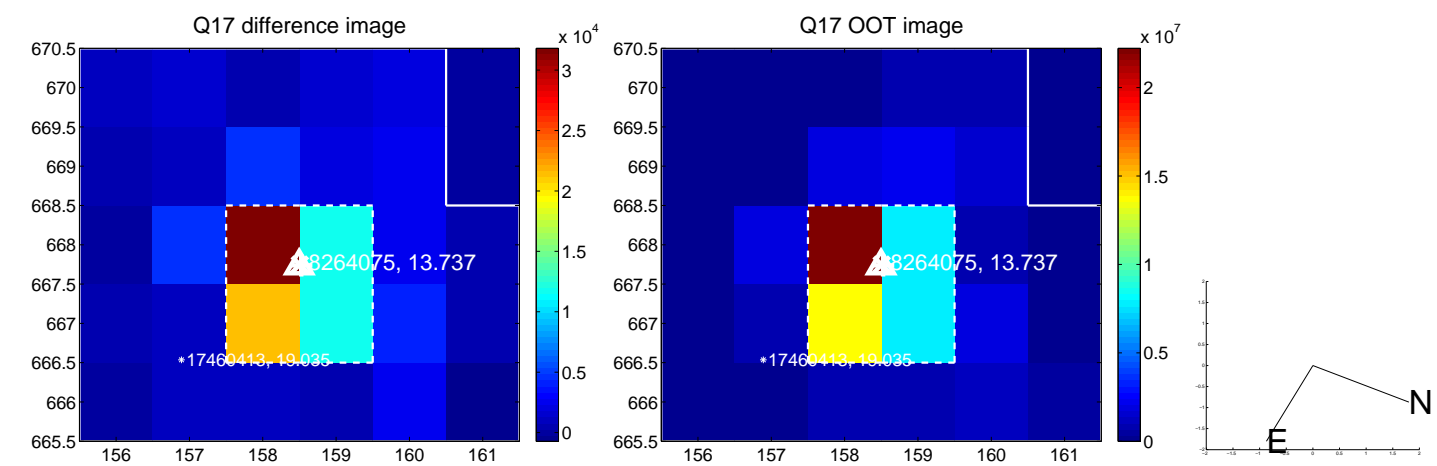
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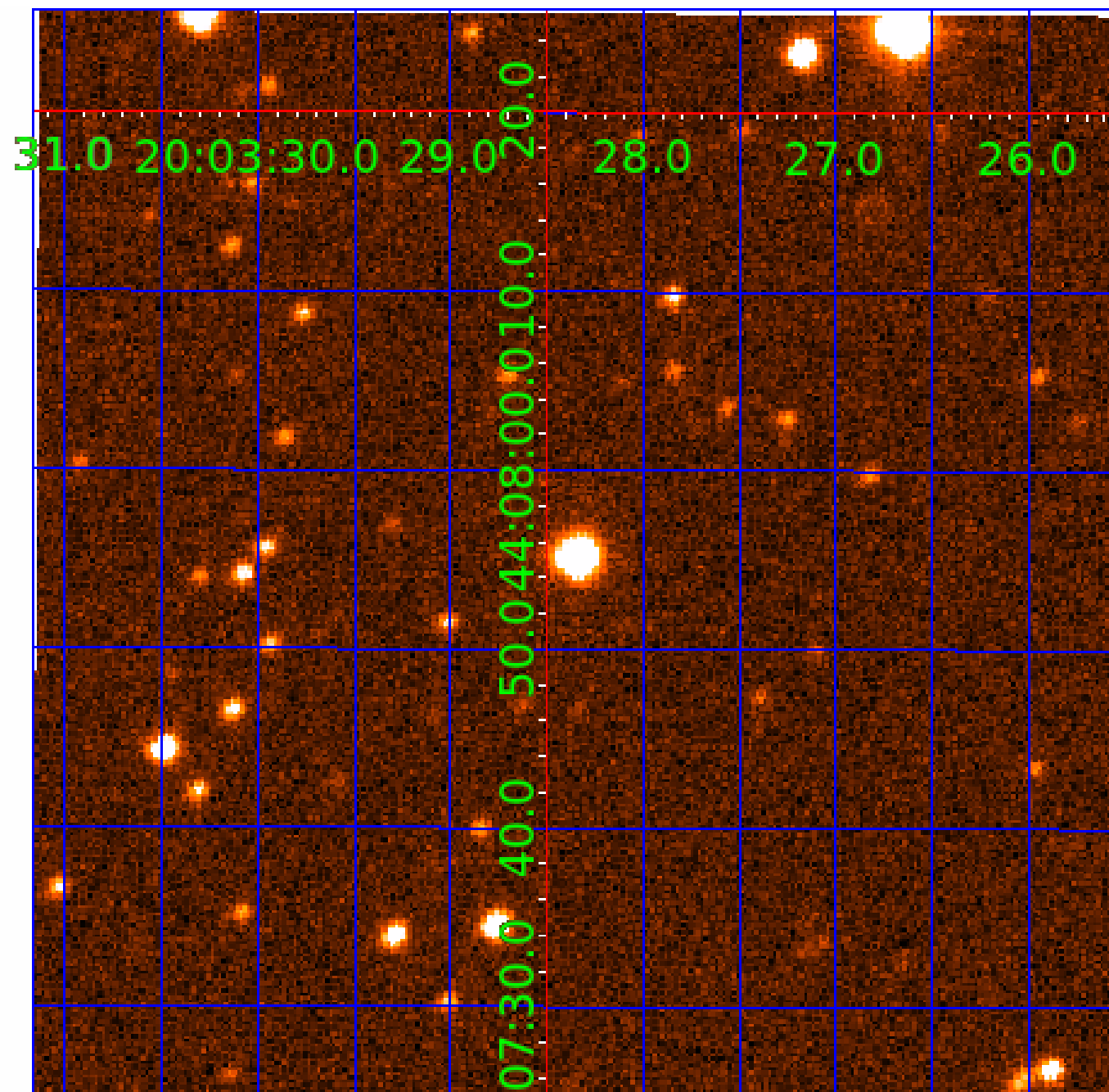


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264075

Q1-17 DR25 TCE Parameters

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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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008264075-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
008264075-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—HALO_GHOST
008264075-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

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

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

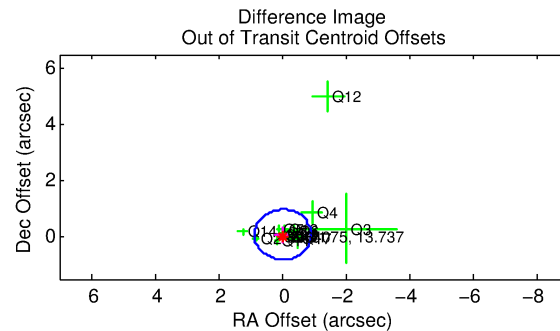
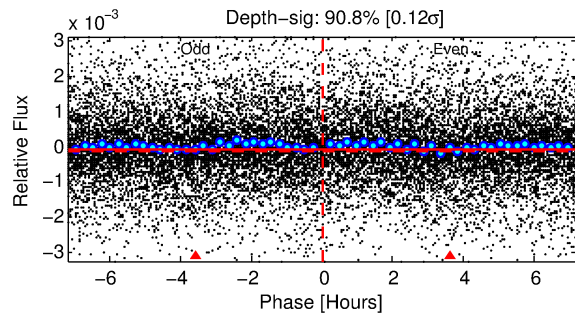
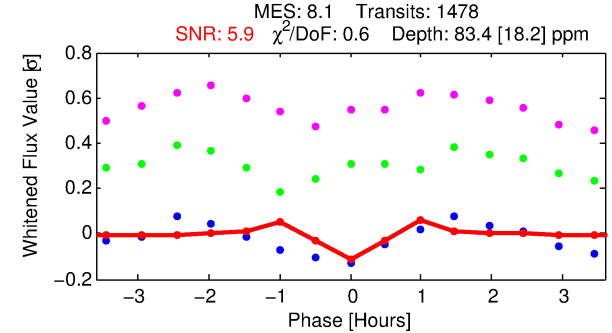
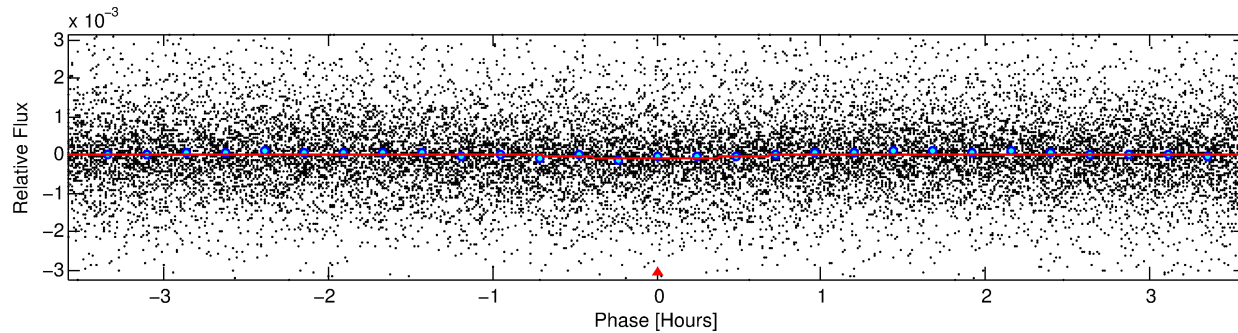
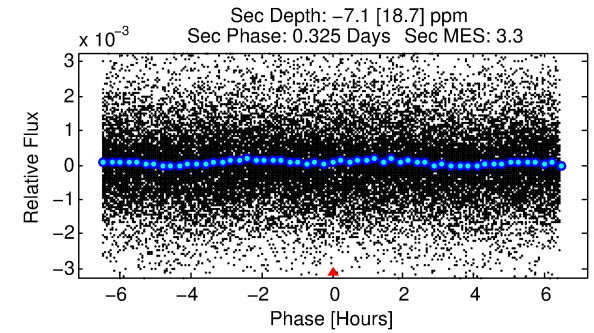
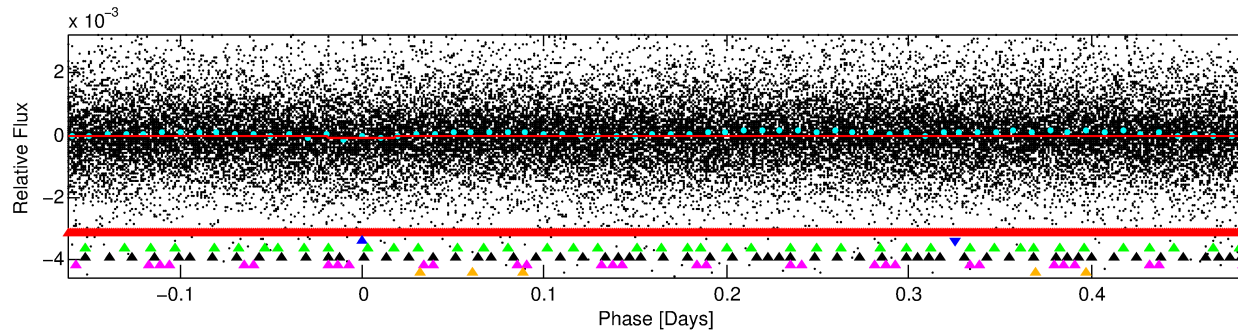
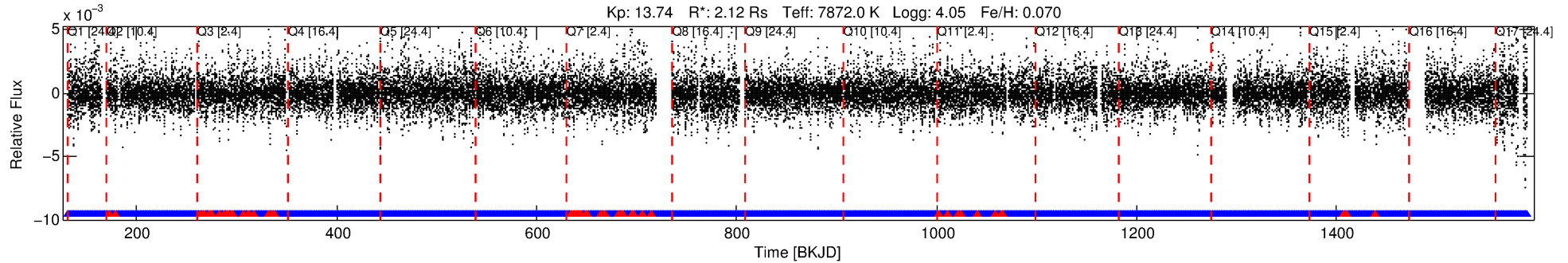
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264075-02

No Significant Match Found

DV One-Page Summary

KIC: 8264075 Candidate: 2 of 6 Period: 0.647 d



DV Fit Results:

Period = 0.64673 [0.00002] d
Epoch = 131.6184 [0.0018] BKJD
Rp/R* = 0.0097 [0.0044]
a/R* = 2.11 [4.59]
b = 0.90 [0.60]
Seff = 48199.67 [15903.74]
Teq = 3778 [312] K
Rp = 2.26 [1.15] Re
a = 0.0179 [0.0035] AU
Ag = N/A
Teffp = N/A

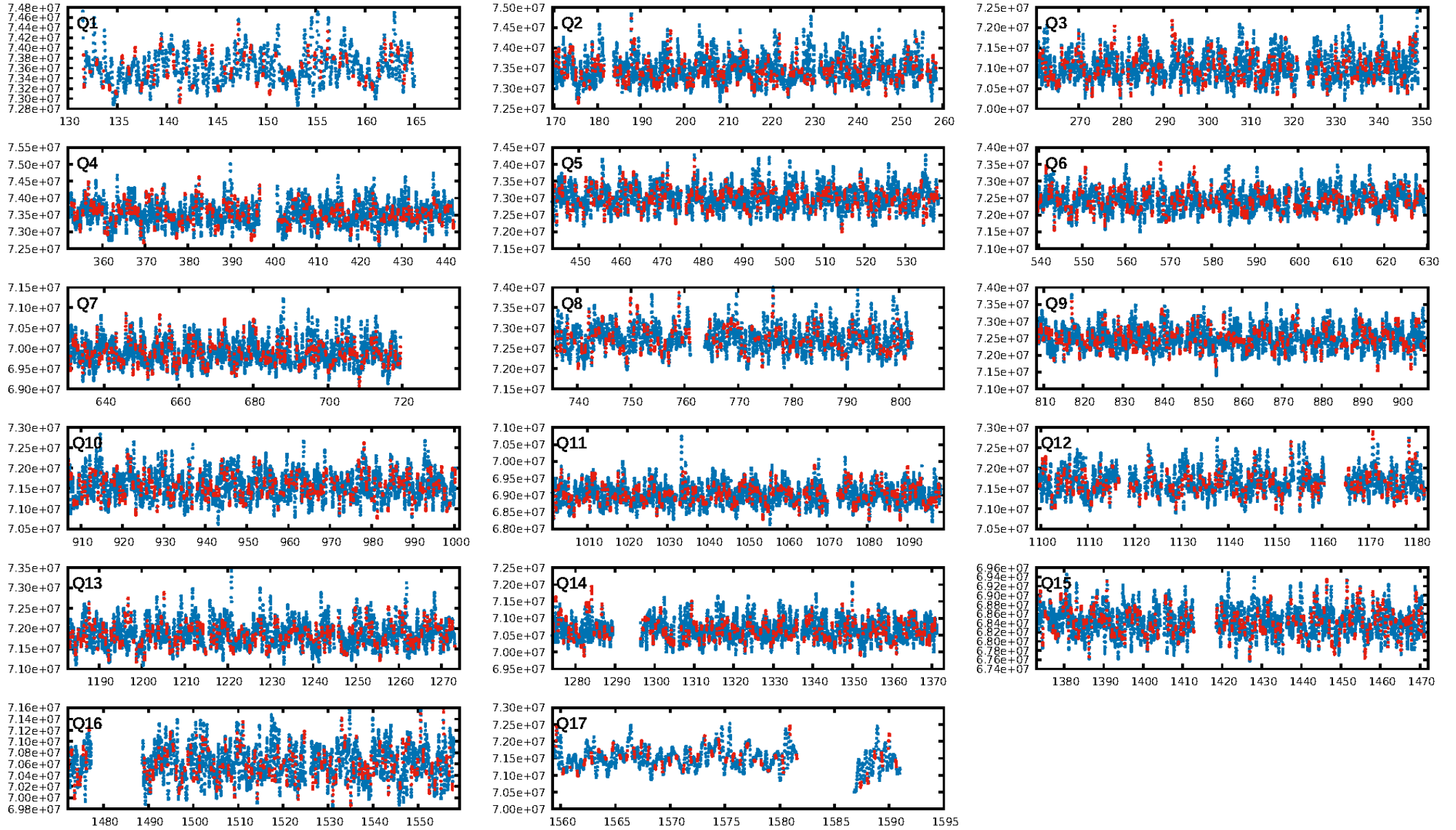
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 15.9% [0.20σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.96 [1359/1422]
GhostDiagnostic-chr: 2.315
Centroid-sig: 0.1%
Centroid-so: 0.987 arcsec [1.70σ]
OotOffset-rm: 0.084 arcsec [0.28σ]
KicOffset-rm: 0.030 arcsec [0.09σ]
OotOffset-st: 4/4/3/5 [16]
KicOffset-st: 4/4/3/5 [16]
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DiffImageOverlap-fno: 1.00 [17/17]

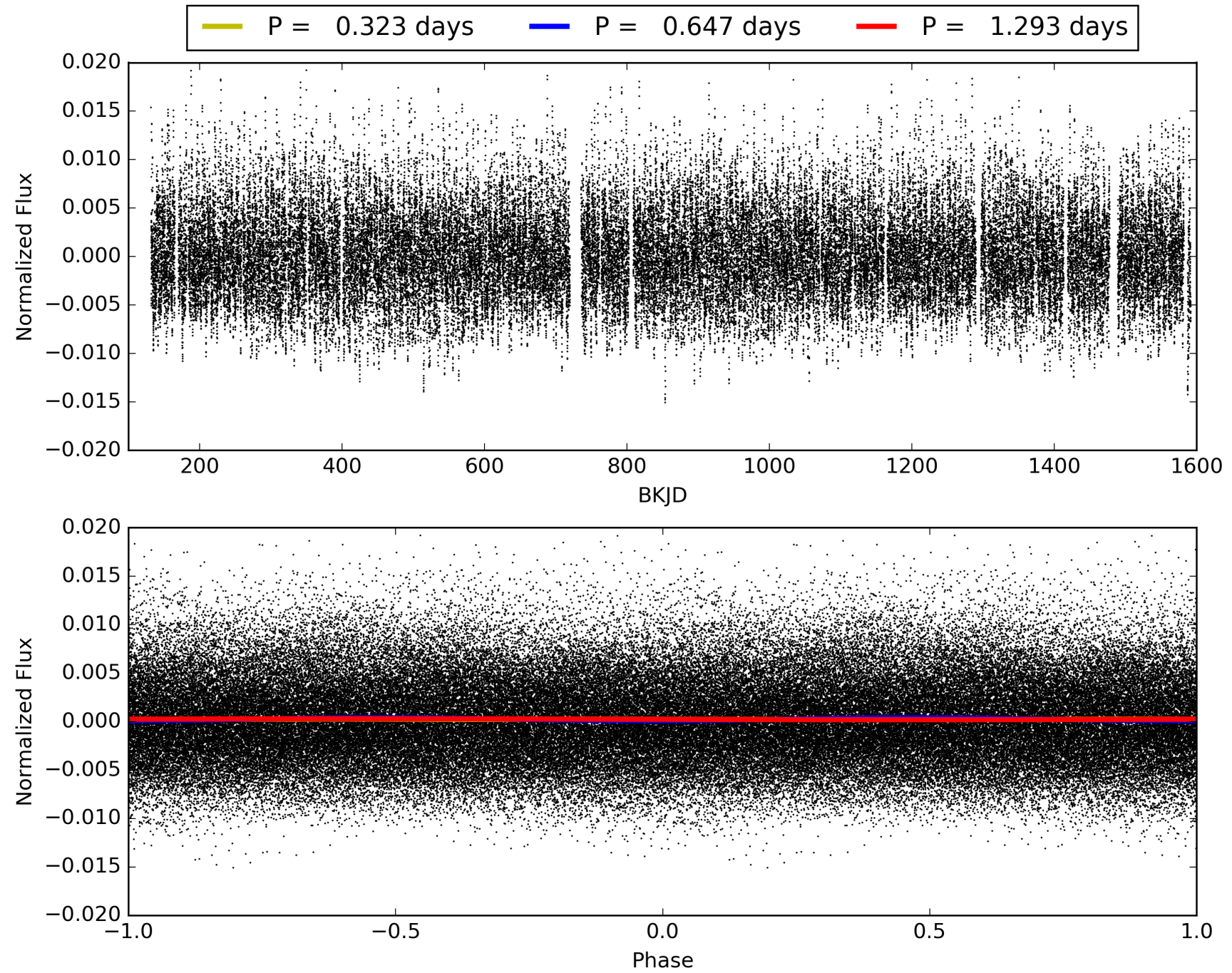
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:53:39 Z

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

TCE 008264075-02, PDC Light Curves

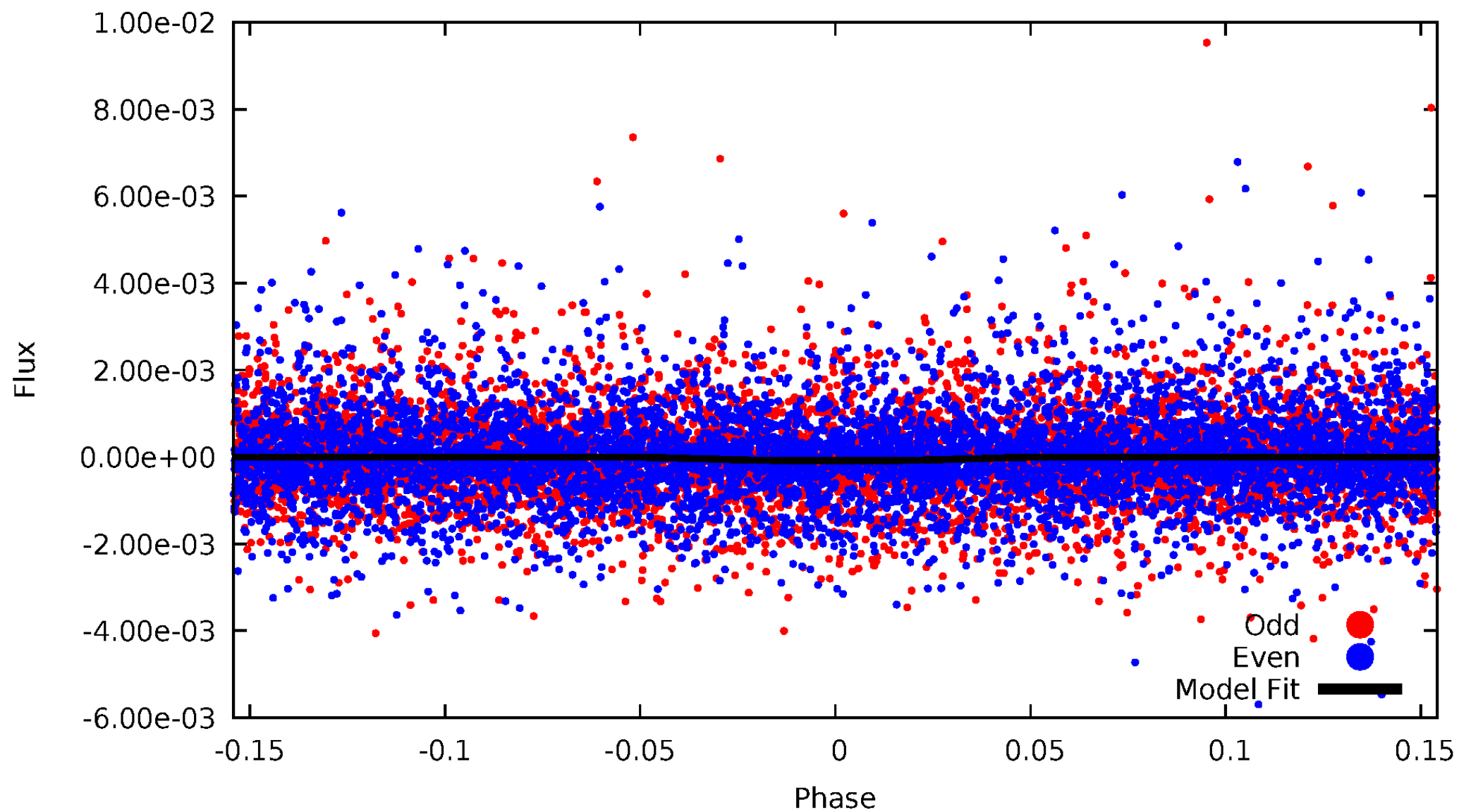


TCE 008264075-02



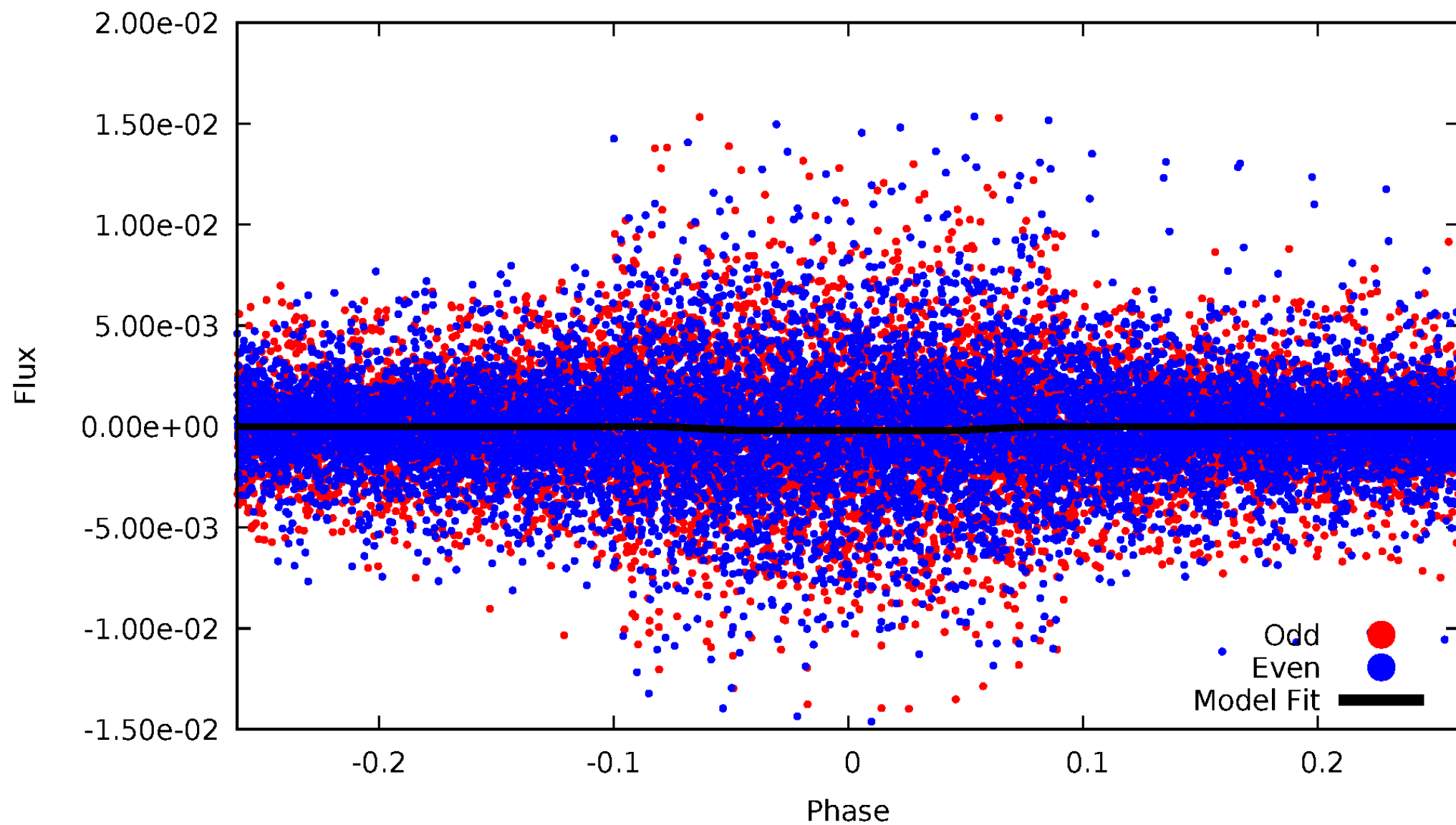
DV Odd/Even

TCE 008264075-02



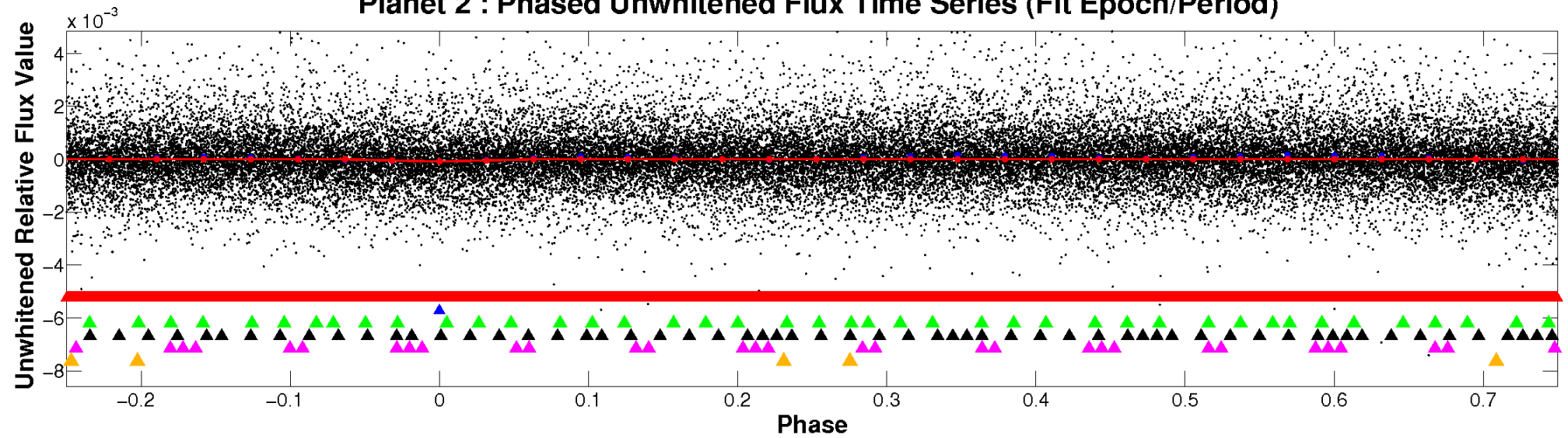
ALT Odd/Even

TCE 008264075-02

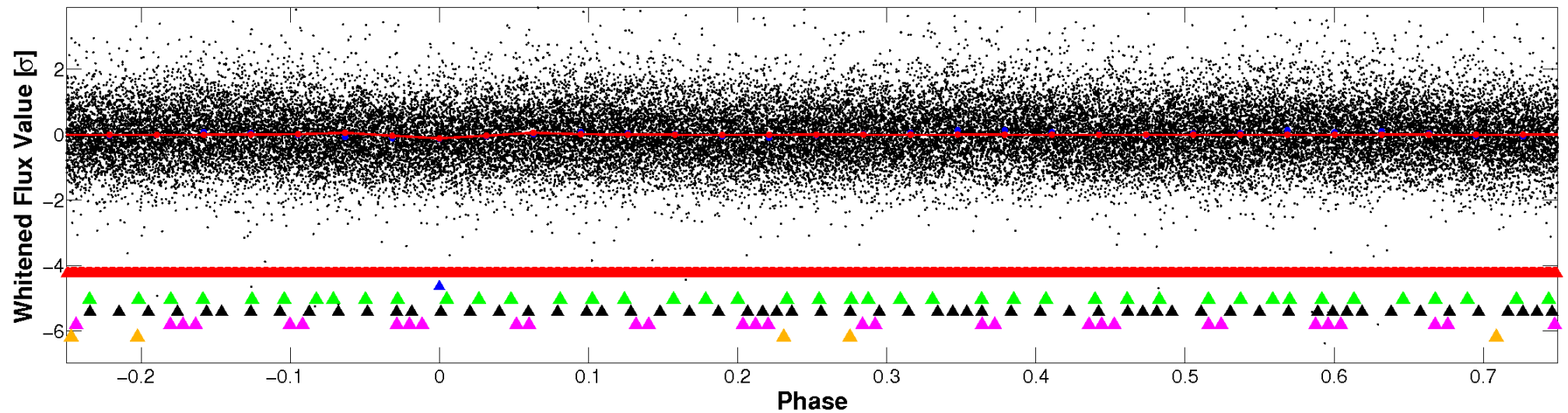


Non-Whitened Vs. Whitened Light Curve

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

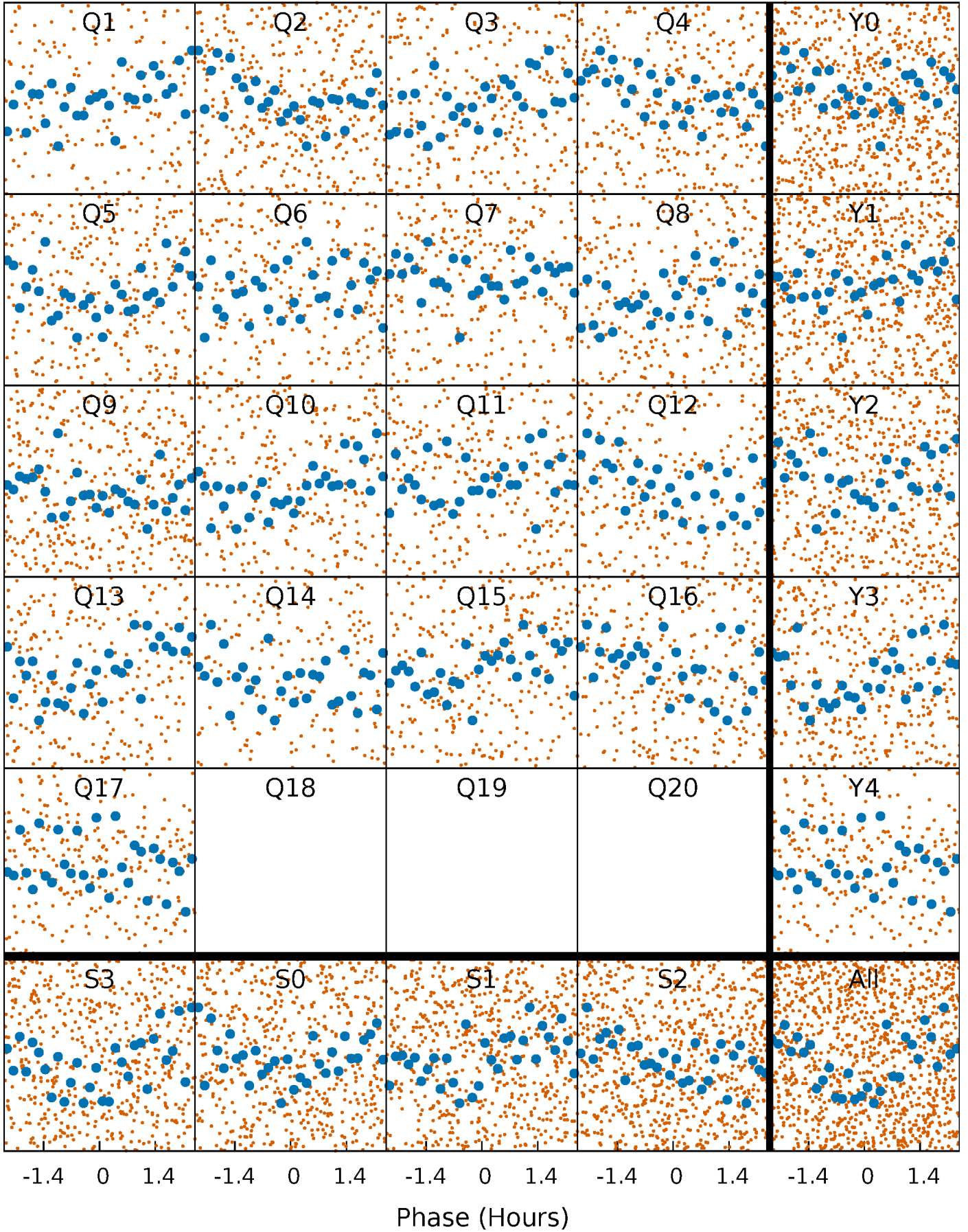


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



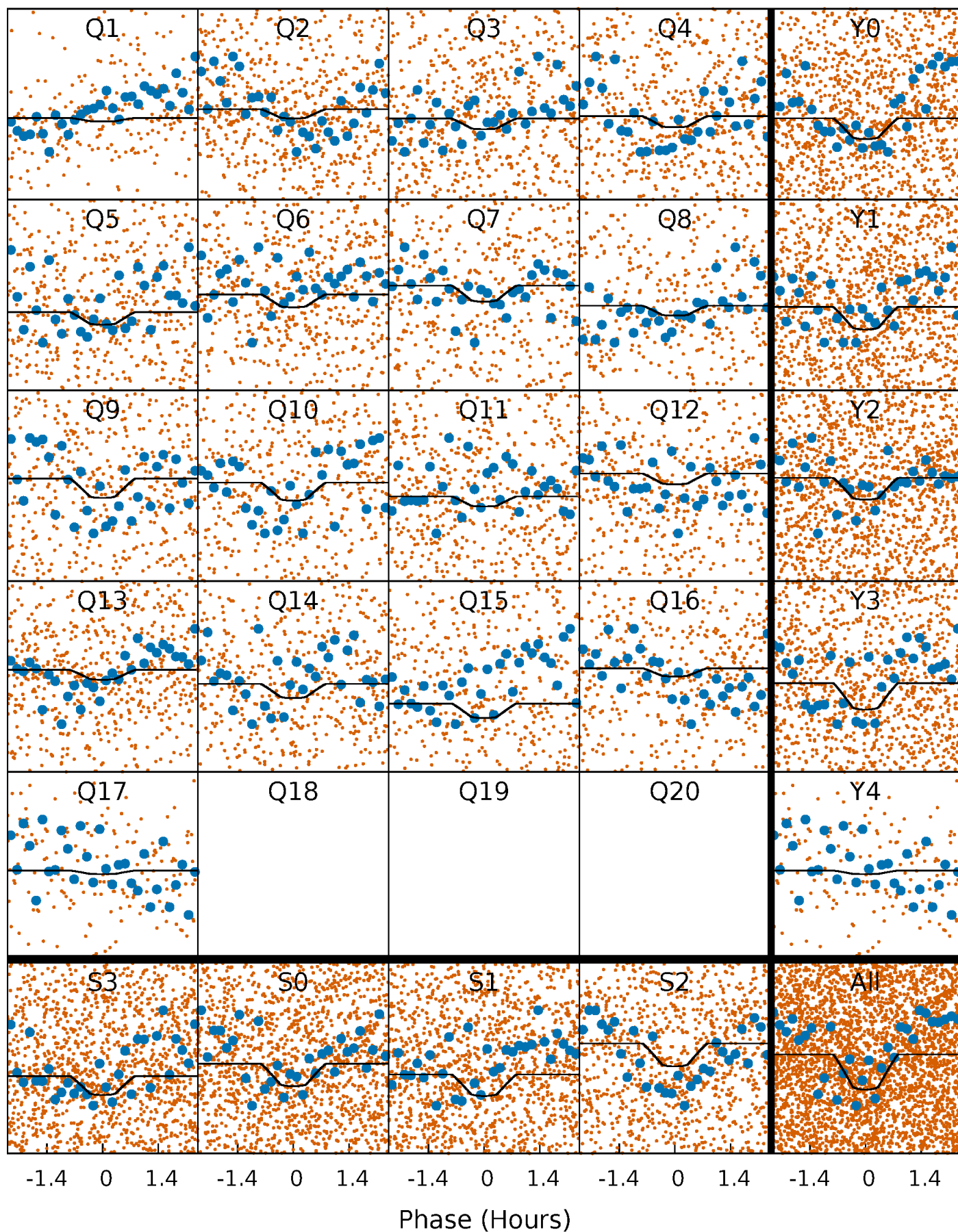
PDC Quarter-Phased Transit Curves

TCE 008264075-02 P= 0.646726 Days $T_0=131.618387$ (BKJD)



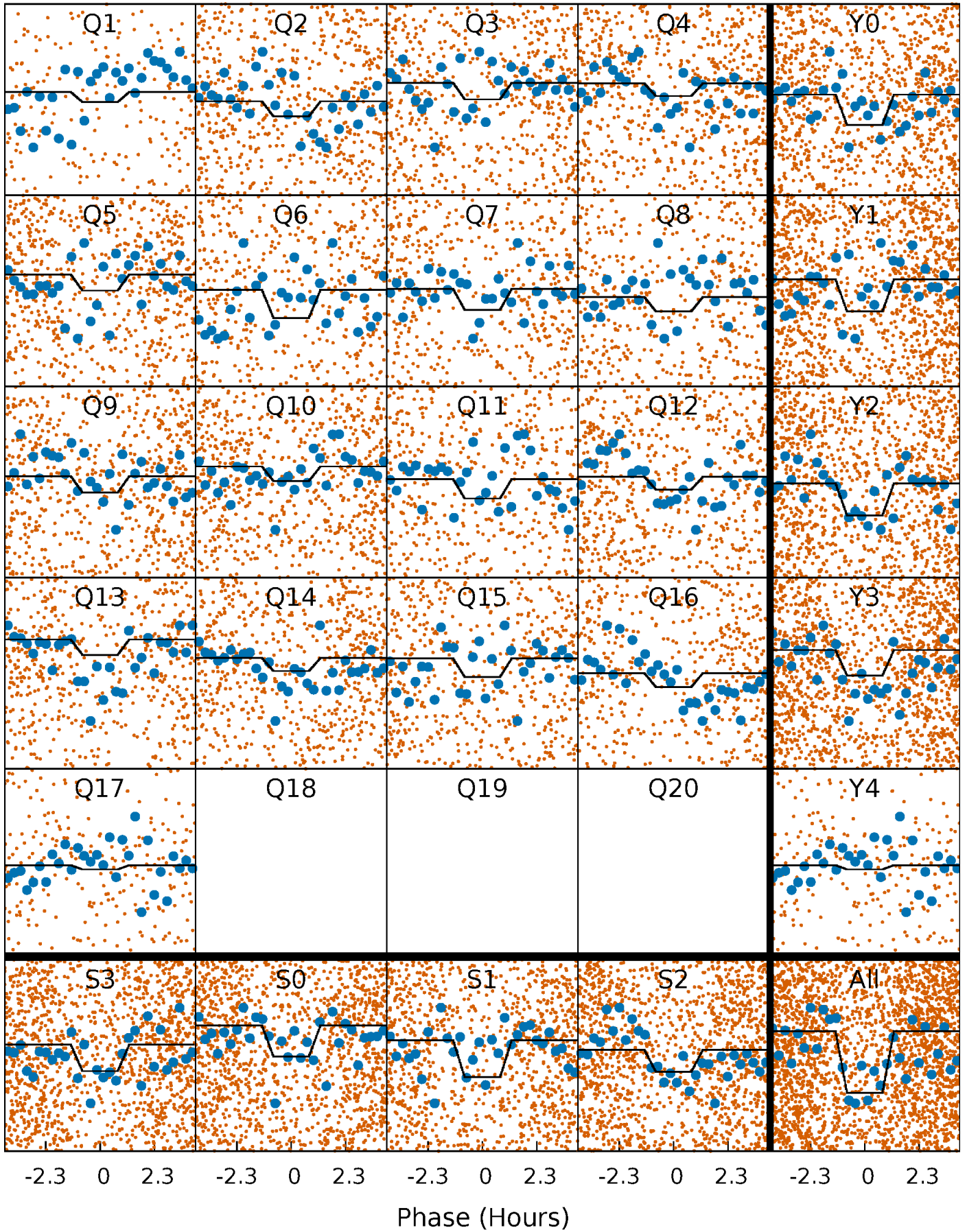
DV Quarter-Phased Transit Curves

TCE 008264075-02 P= 0.646726 Days $T_0=131.618387$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

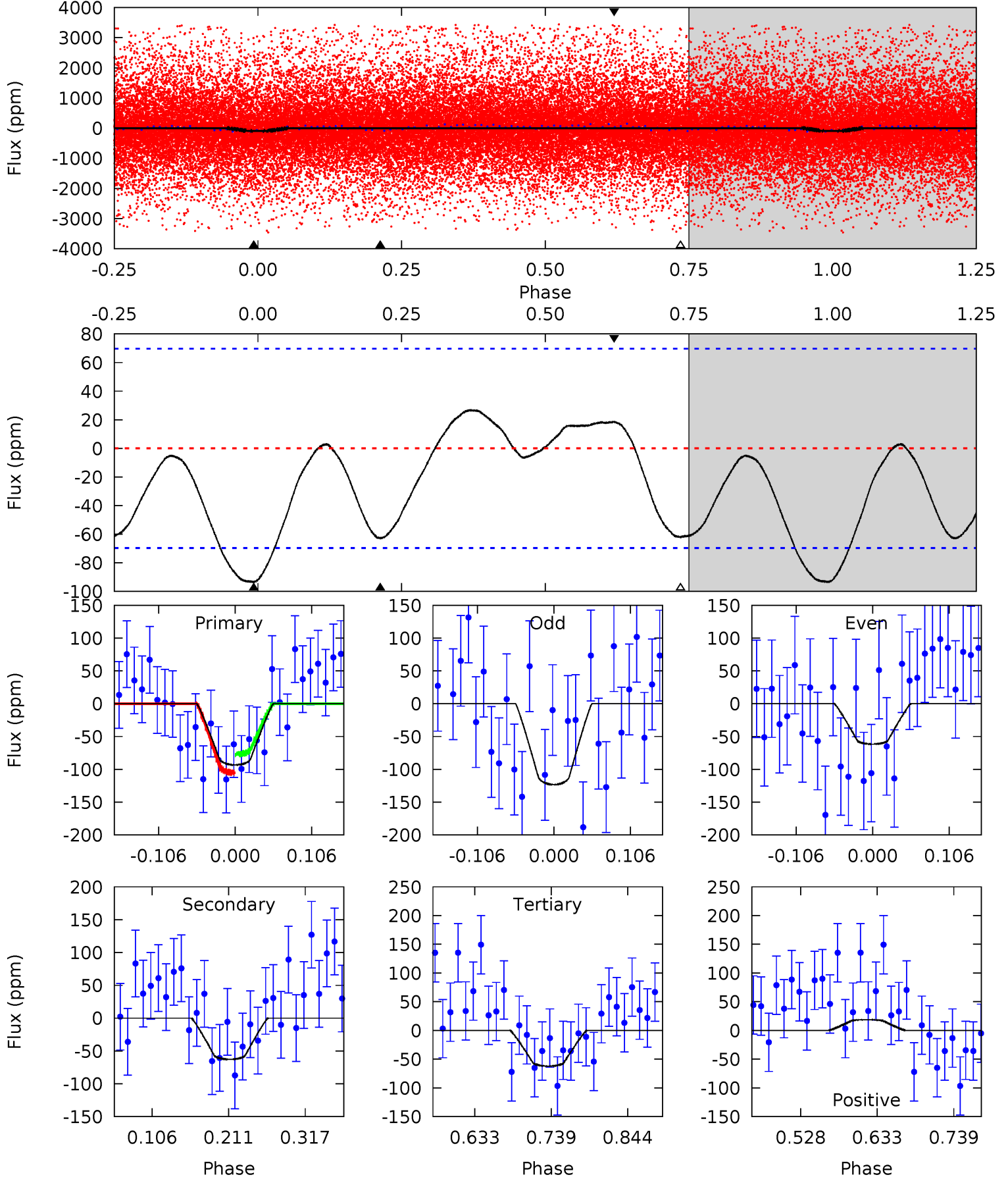
TCE 008264075-02 P= 0.646717 Days $T_0=131.616111$ (BKJD)



DV Model-Shift Uniqueness Test

008264075-02, P = 0.646726 Days, E = 130.971661 Days

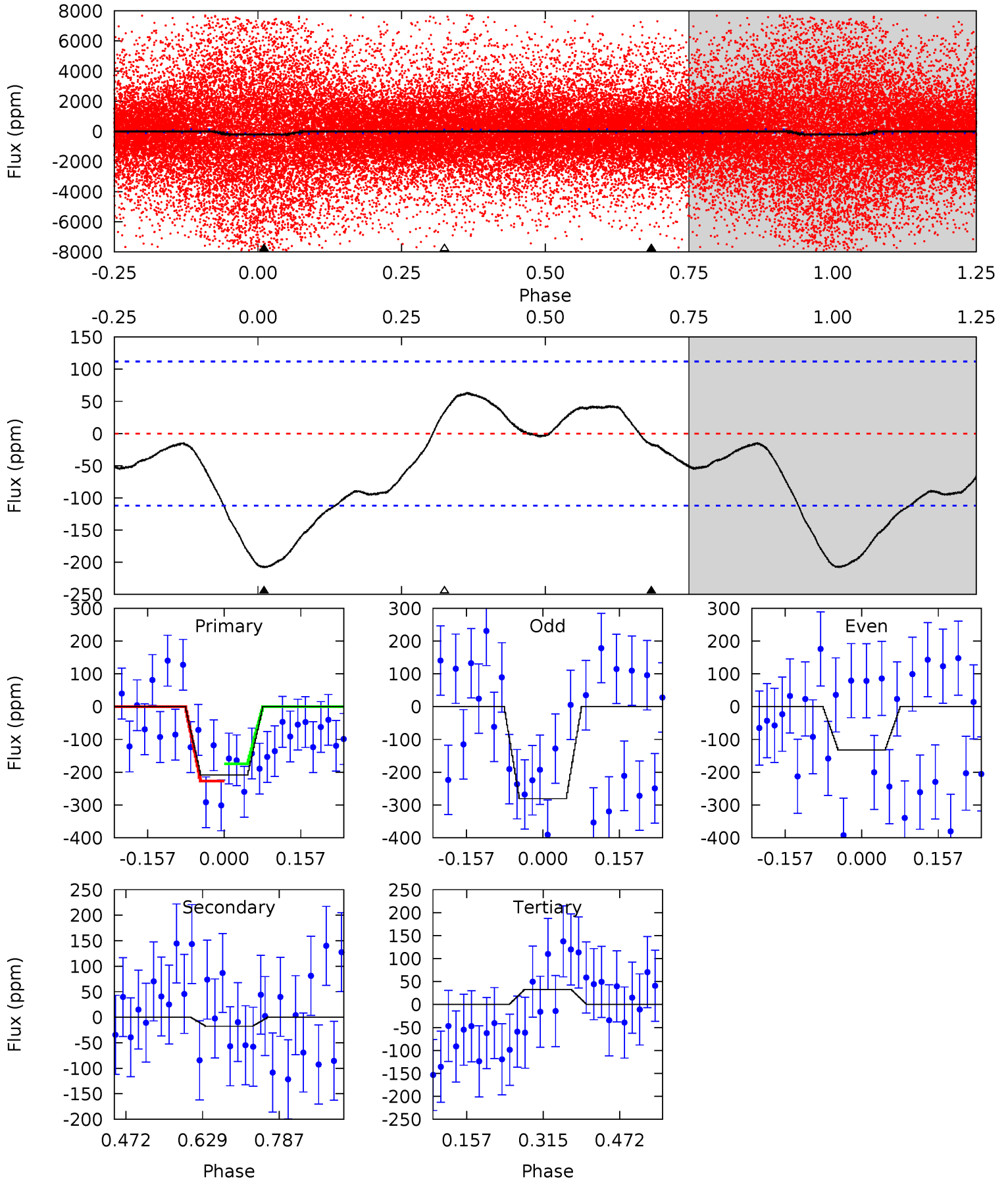
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.10	4.11	4.06	1.22	4.55	1.62	1.77	2.04	4.88	0.05	2.89	2.04	0.73	0.22	0.94



Alt Model-Shift Uniqueness Test

008264075-02, P = 0.646717 Days, E = 130.969394 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.31	0.70	-1.29	0	4.47	1.41	2.10	9.59	8.31	1.99	0.70	2.98	0.97	0.23	1.05



Stellar Parameters For KIC 008264075

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7872^{+216}_{-351}	$4.049^{+0.150}_{-0.150}$	$0.070^{+0.200}_{-0.350}$	$2.124^{+0.494}_{-0.494}$	$1.841^{+0.147}_{-0.319}$	$0.271^{+0.216}_{-0.111}$
	+3%/-4%	+4%/-4%	+286%/-500%	+23%/-23%	+8%/-17%	+80%/-41%
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 008264075-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-63 ± 15	$2.20^{+1.12}_{-0.95}$	5249^{+355}_{-333}	6710^{+2976}_{-1507}	$2.268^{+4.695}_{-1.319}$
Alt.	-18 ± 25	$3.14^{+1.09}_{-0.97}$	5249^{+358}_{-359}	-2821^{+7935}_{-2003}	$0.282^{+0.665}_{-0.442}$

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 $A_{obs} \gg 1.0$

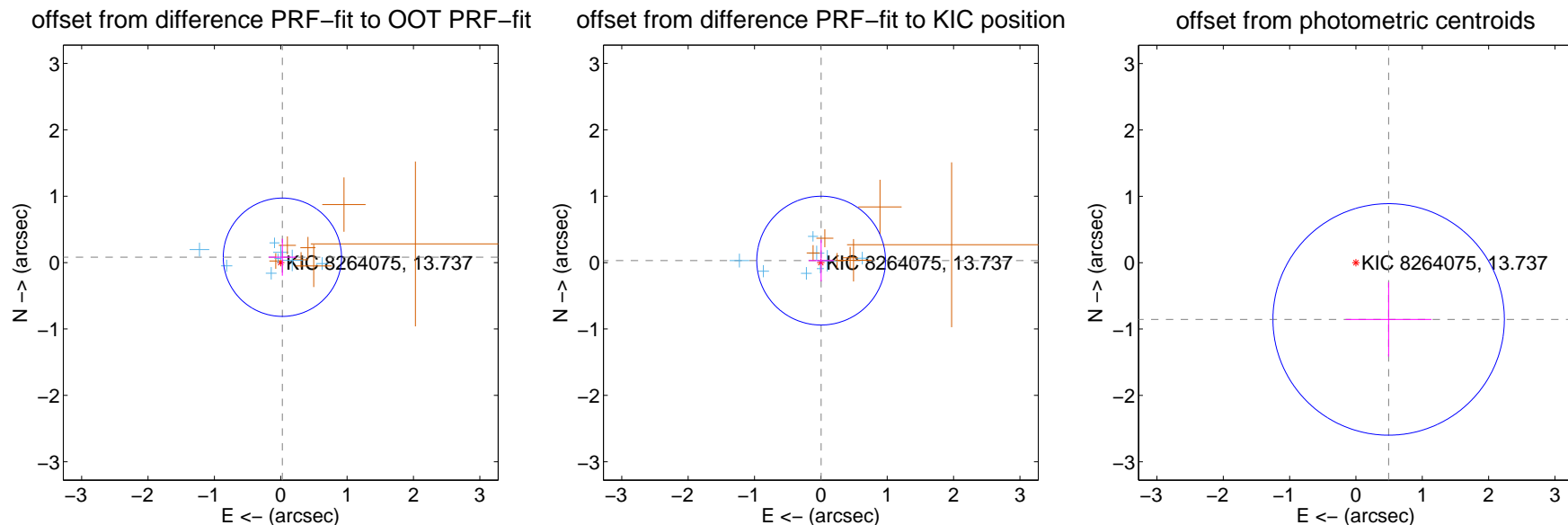
DV Centroid Data

Supplemental centroid analysis for 008264075-02. Kepler magnitude: 13.74. Transit SNR 5.90

There are 8 quarters with good PRF difference image offsets

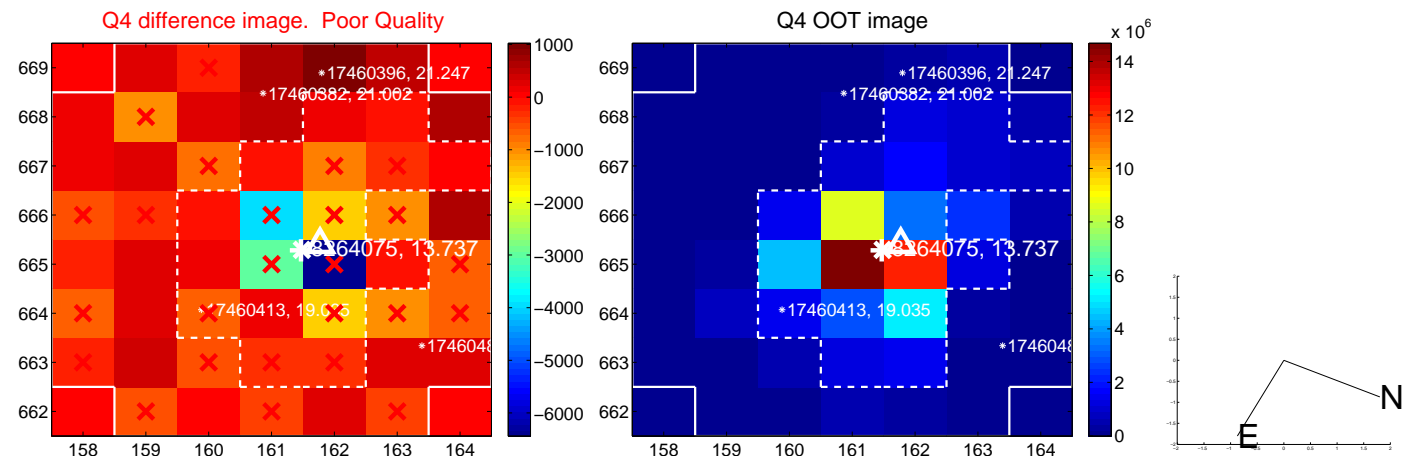
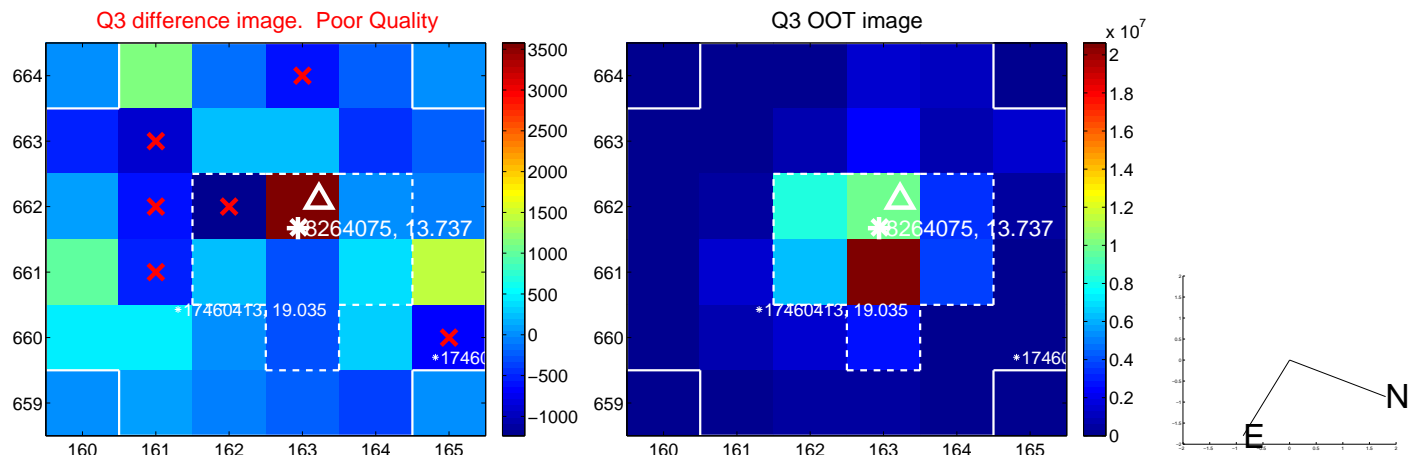
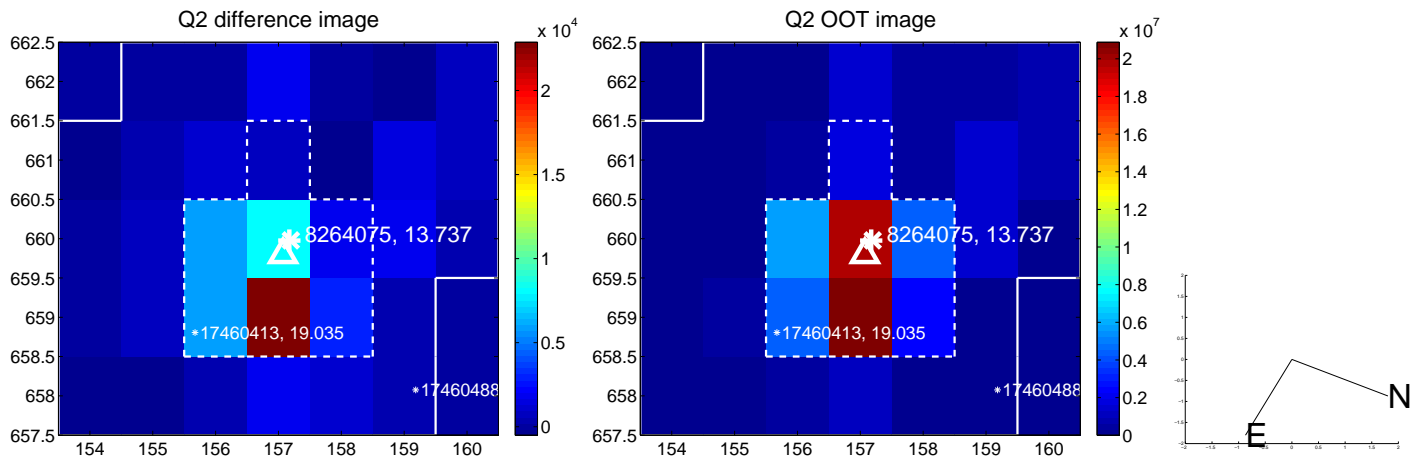
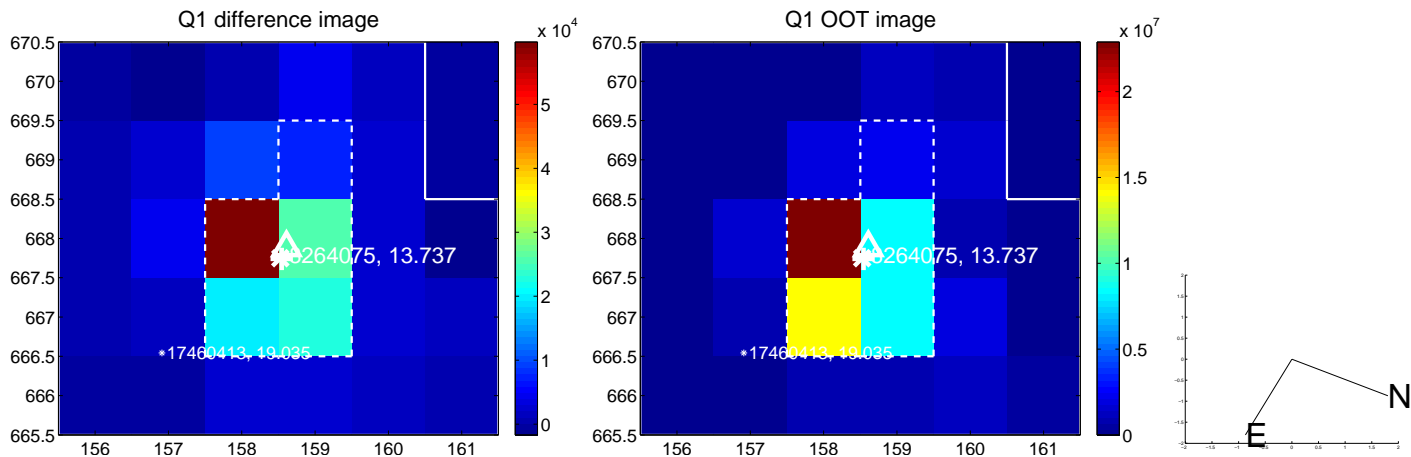
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.084 ± 0.297	0.28	-0.025 ± 0.205	0.081 ± 0.279
PRF-fit source offset from KIC position	0.030 ± 0.323	0.09	-0.004 ± 0.190	0.030 ± 0.315
photometric centroid source offset	0.99 ± 0.58	1.70	-0.49 ± 0.65	-0.85 ± 0.56

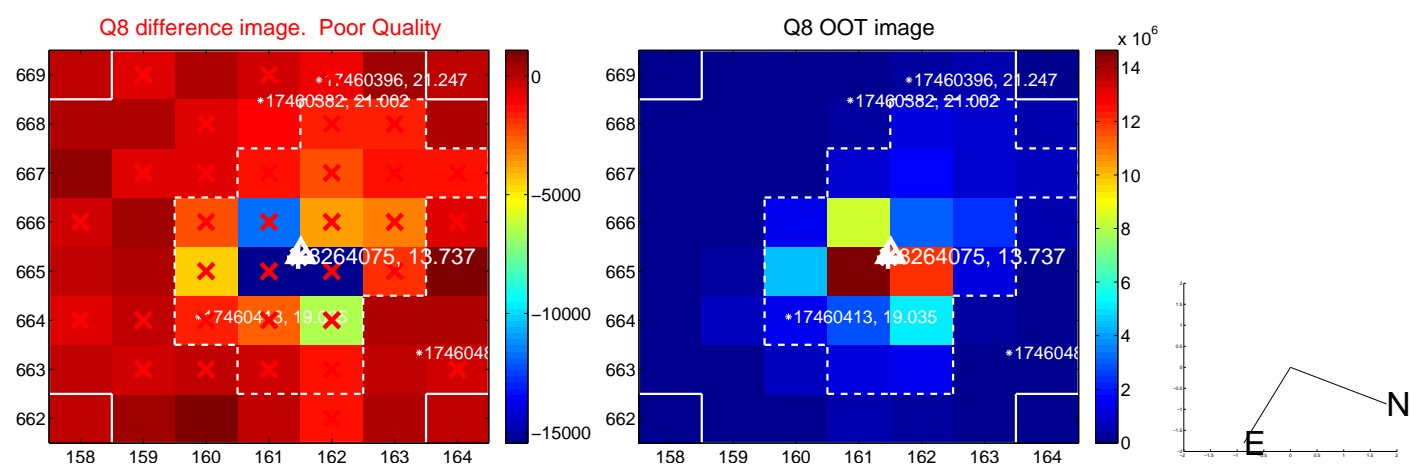
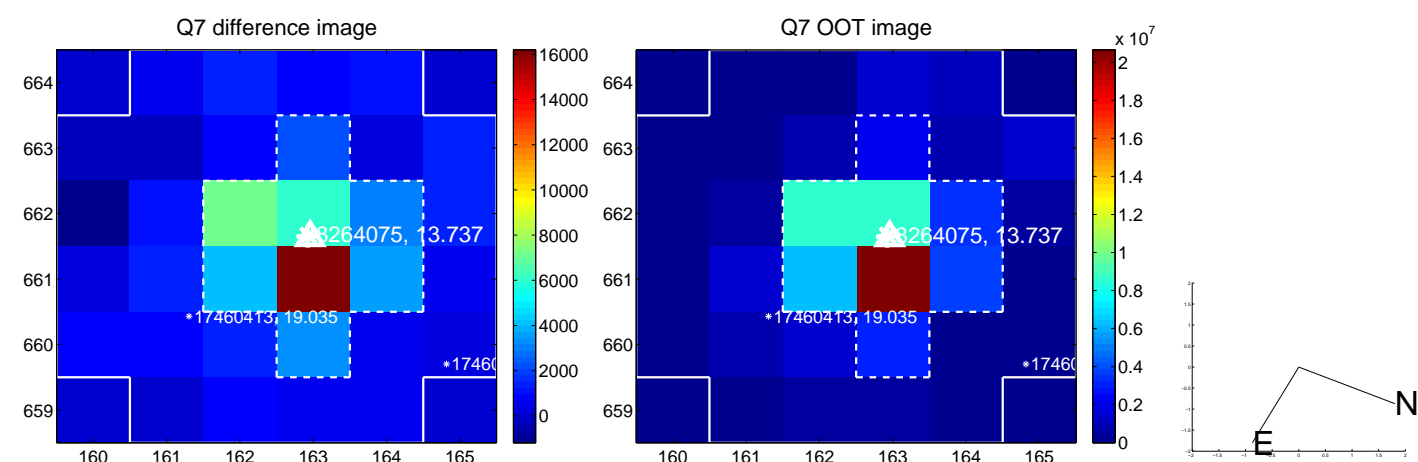
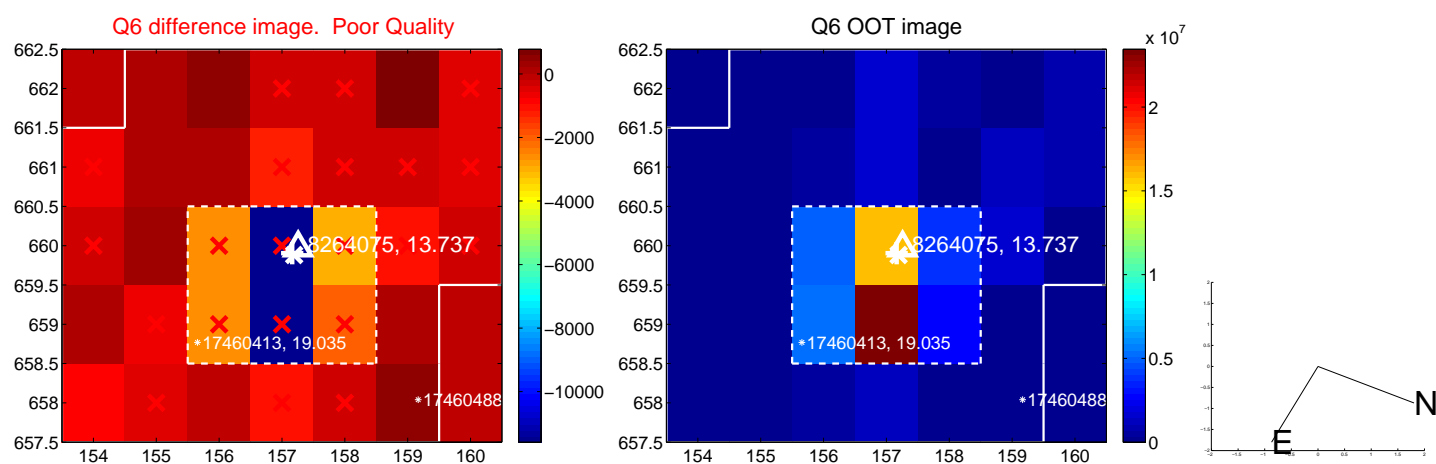
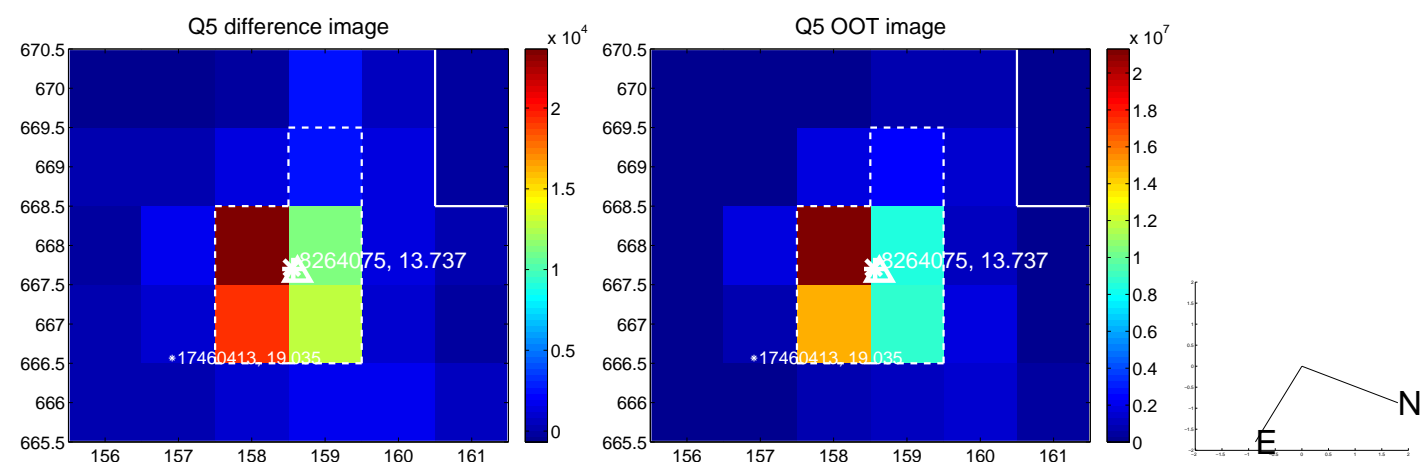


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

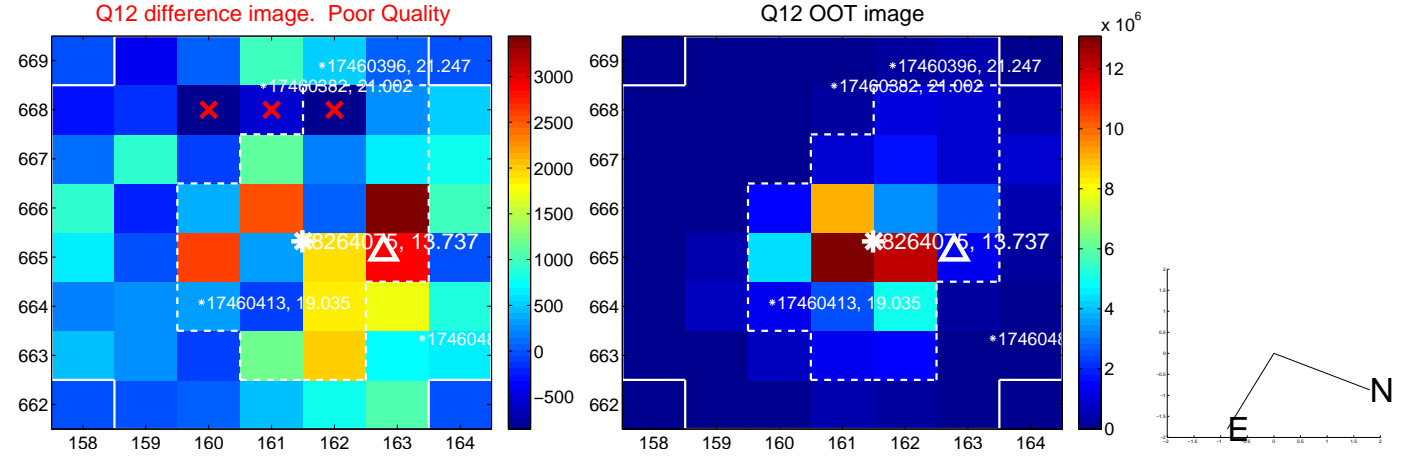
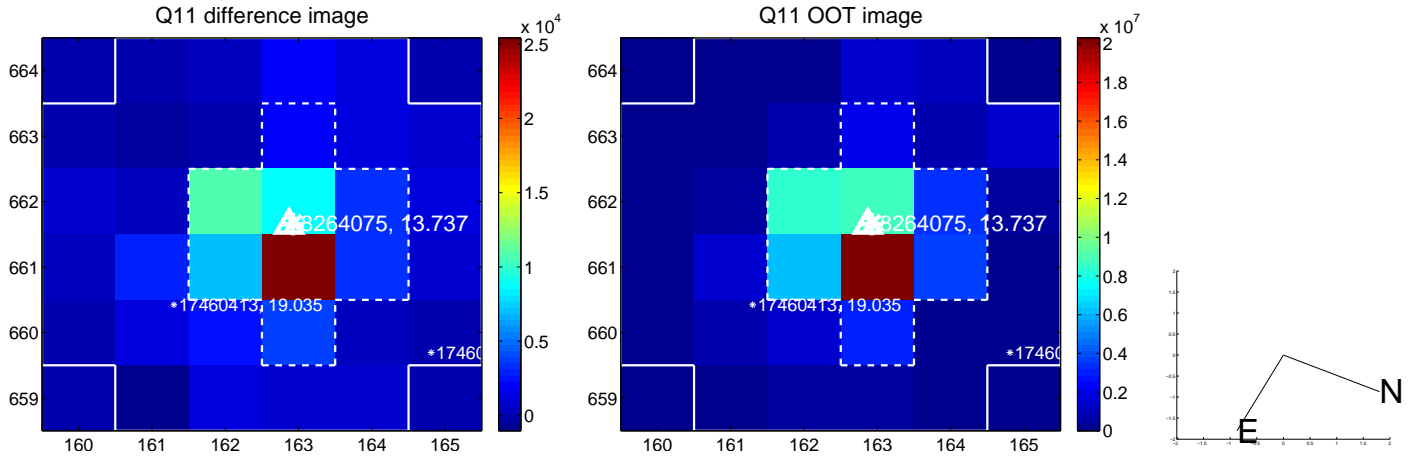
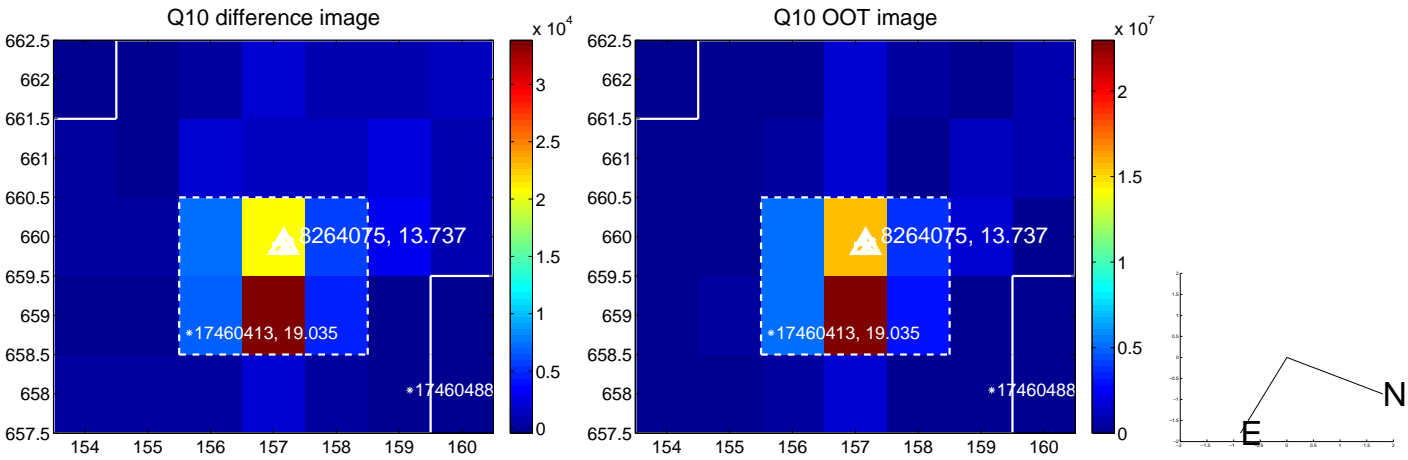
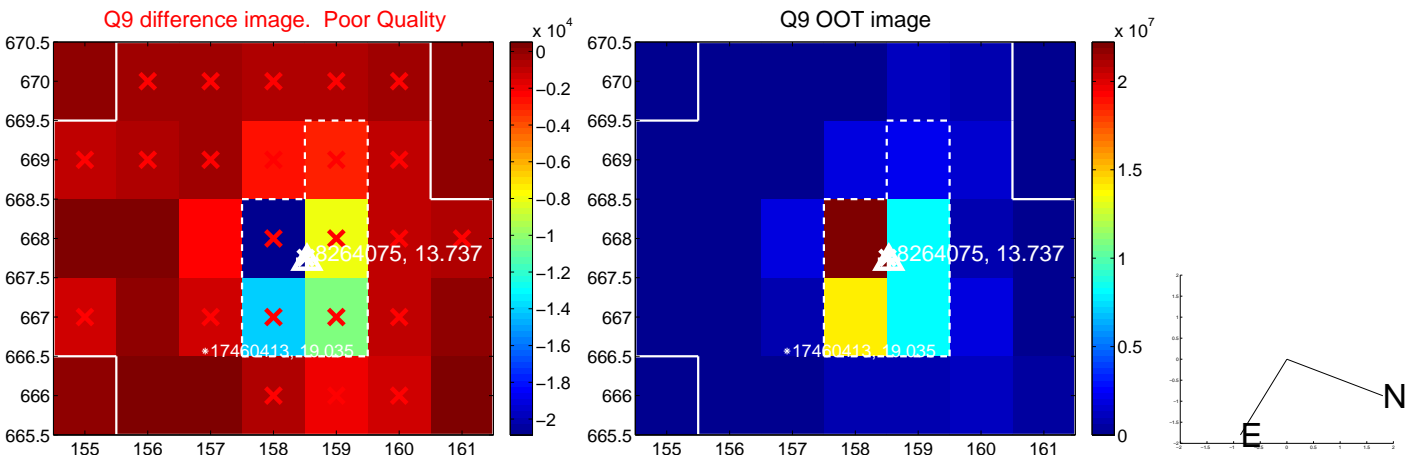
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



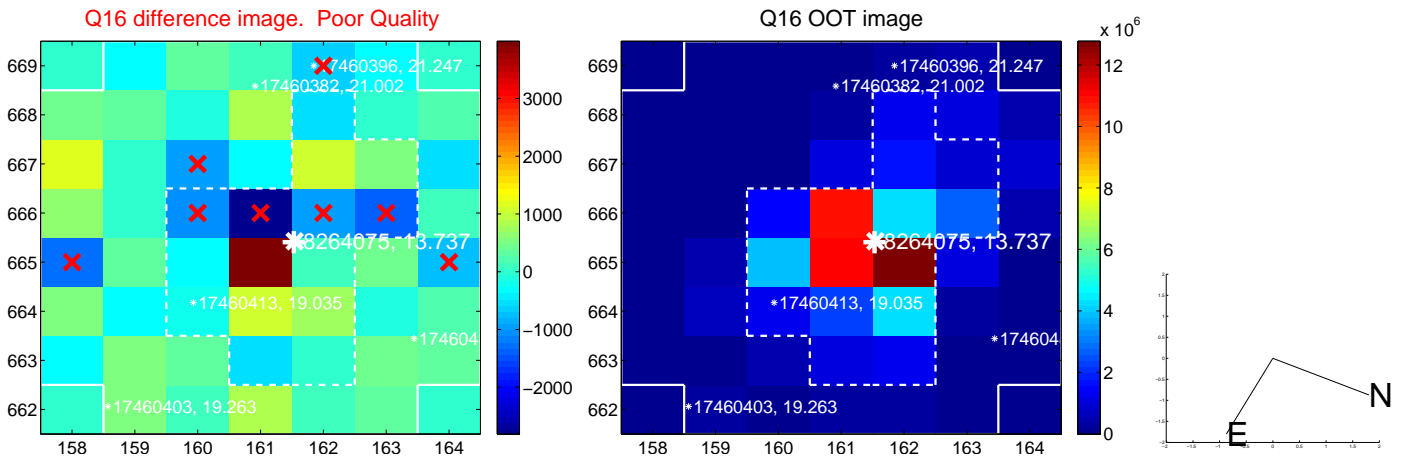
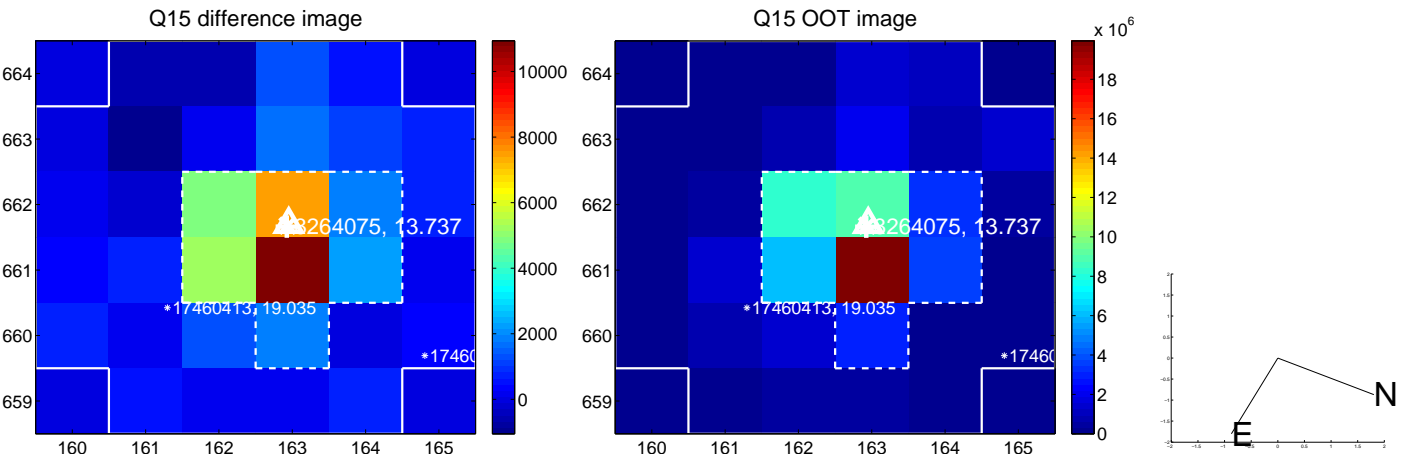
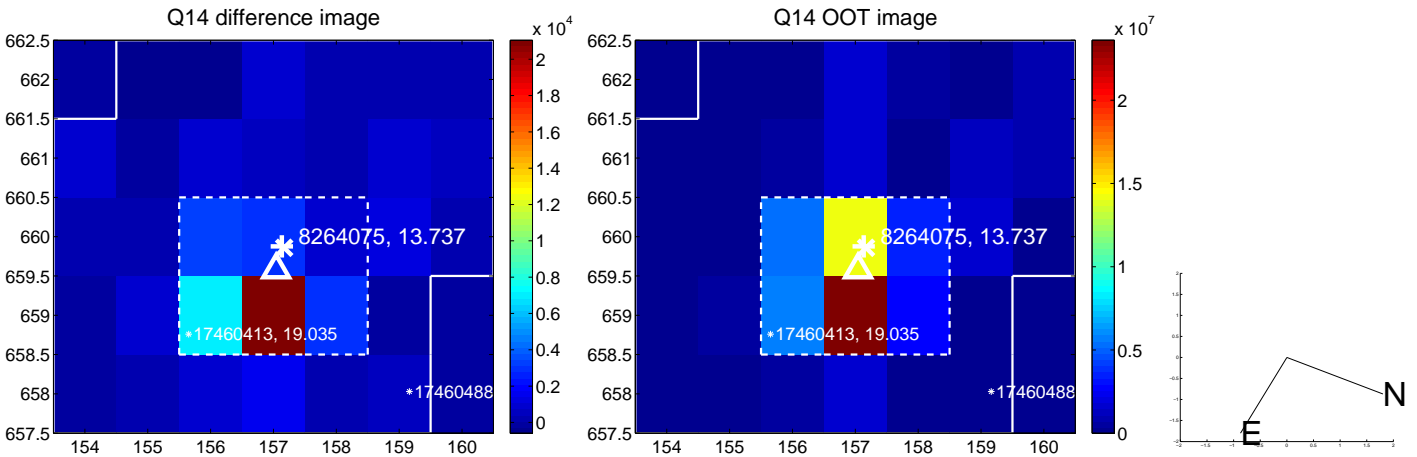
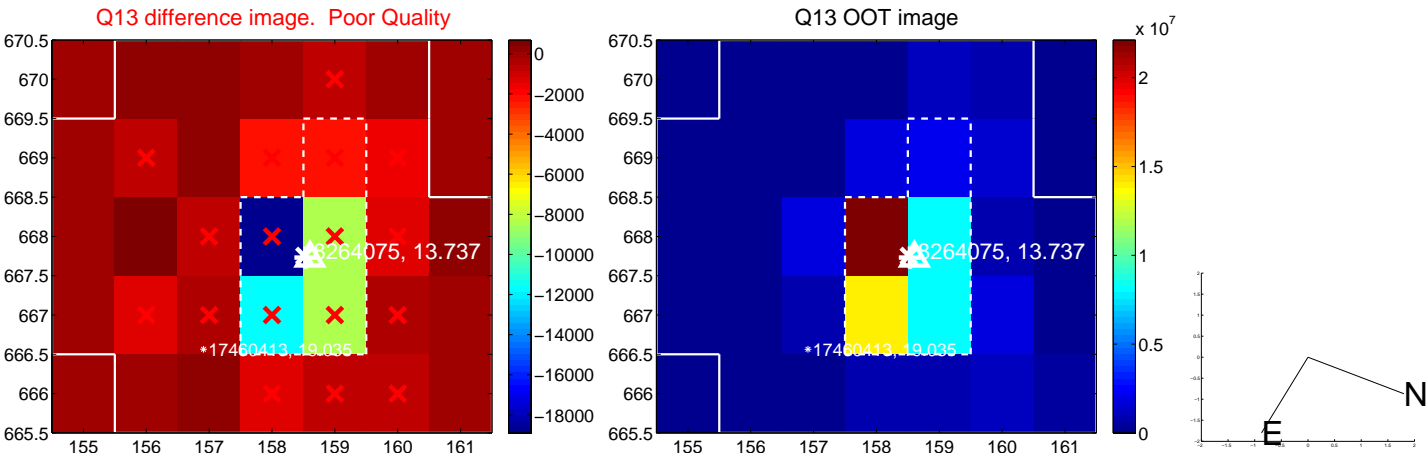
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

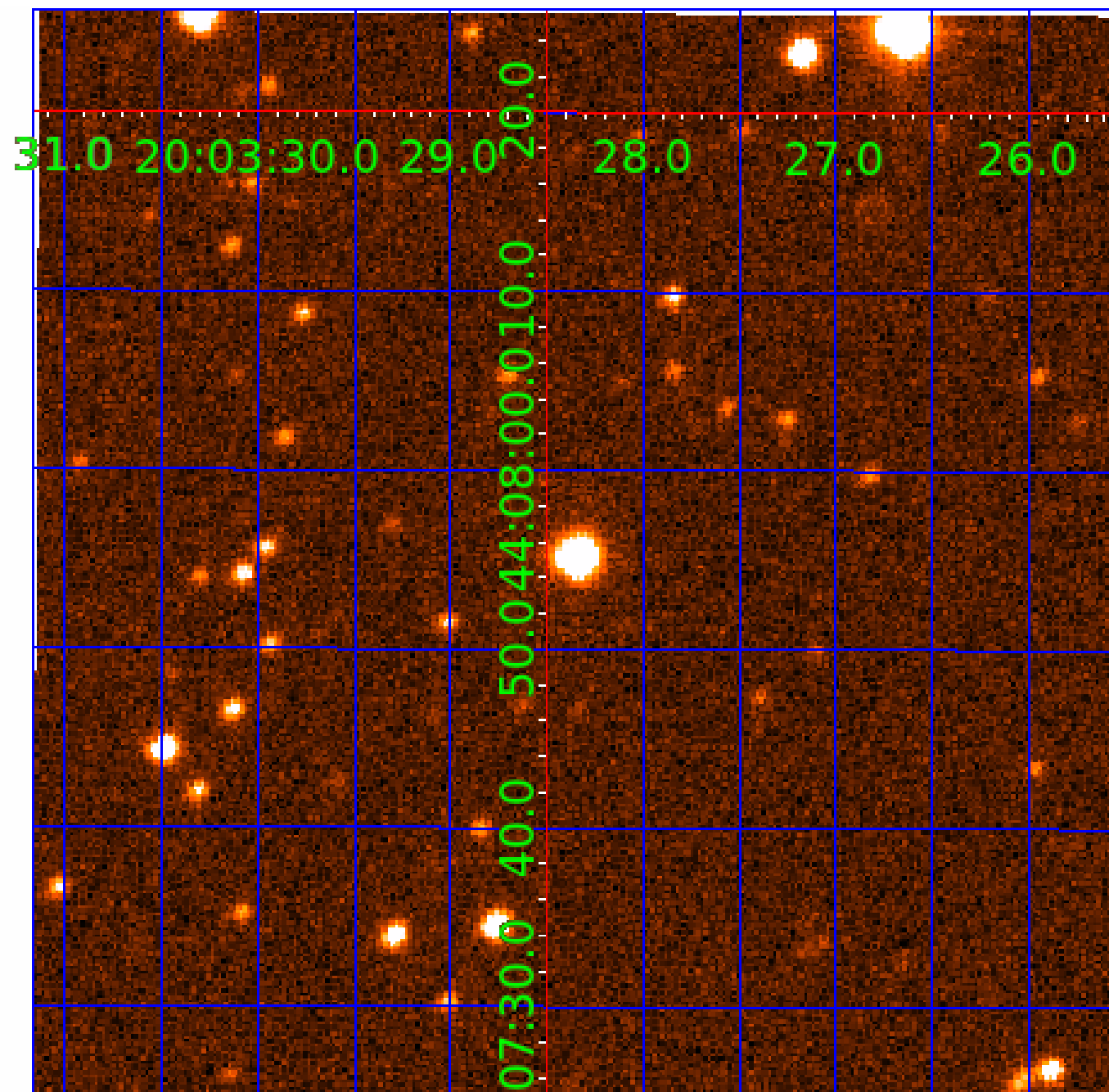


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264075

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})
008264075-01	OBS	No	0.665089	132.091437	42.1	1.837	10.3	4.1	2.12	7872	1.59	46433.47
008264075-02	OBS	No	0.646726	131.618387	83.4	1.196	8.1	5.9	2.12	7872	2.26	48199.67
008264075-03	OBS	No	34.691226	138.911002	1154.1	16.184	7.3	7.0	2.12	7872	8.32	238.26
008264075-04	OBS	No	24.493160	136.621490	1255.1	12.948	7.4	7.2	2.12	7872	9.15	378.98
008264075-05	OBS	No	46.962667	149.061556	2568.1	9.365	9.0	7.0	2.12	7872	19.45	159.10
008264075-06	OBS	No	328.845738	138.601439	456.2	3.500	8.2	-1.0	2.12	7872	4.60	11.88

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264075-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
008264075-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—HALO_GHOST
008264075-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

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

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

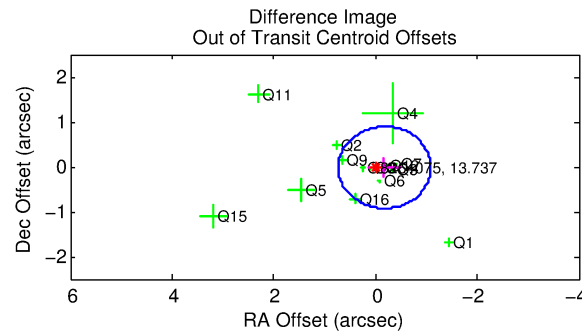
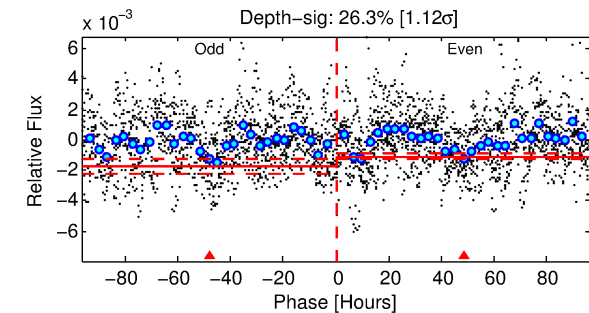
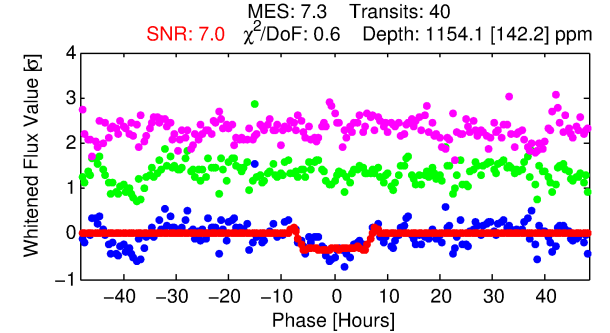
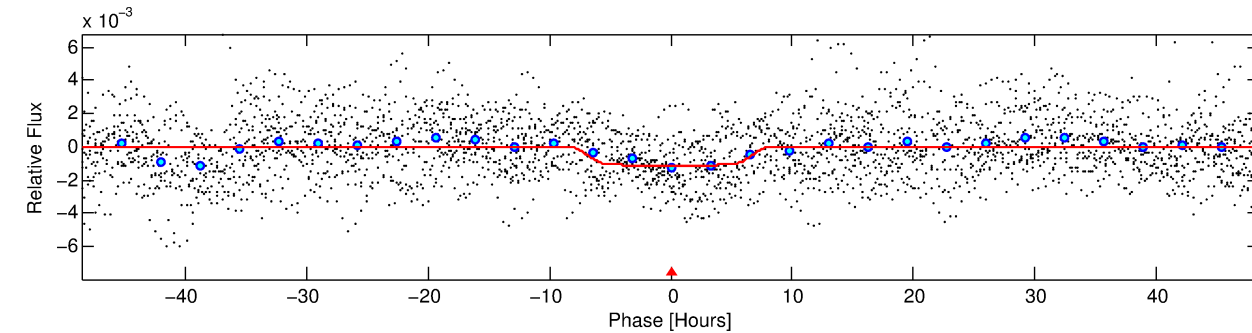
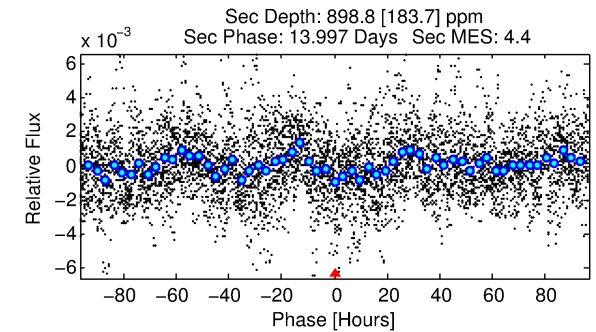
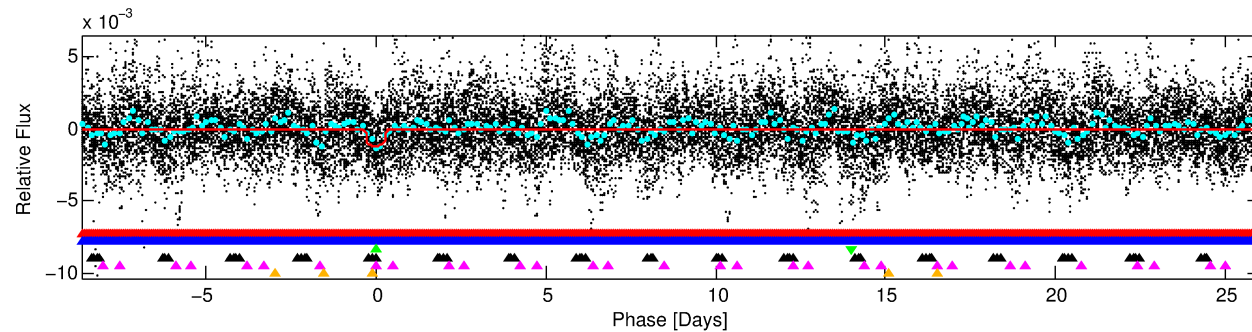
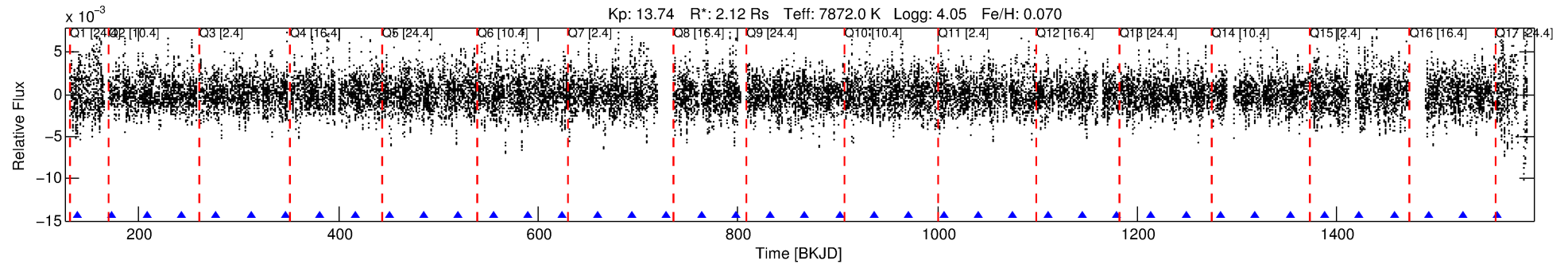
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264075-03

No Significant Match Found

DV One-Page Summary

KIC: 8264075 Candidate: 3 of 6 Period: 34.691 d



DV Fit Results:

Period = 34.69123 [0.00090] d
Epoch = 138.9110 [0.0216] BKJD
Rp/R* = 0.0359 [0.0023]
a/R* = 8.67 [1.06]
b = 0.89 [0.03]
Seff = 238.26 [78.61]
Teq = 1002 [83] K
Rp = 8.33 [2.01] Re
a = 0.2552 [0.0493] AU
Ag = 464.74 [171.33] [2.71σ]
Teffp = 7192 [541] K [11.30σ]

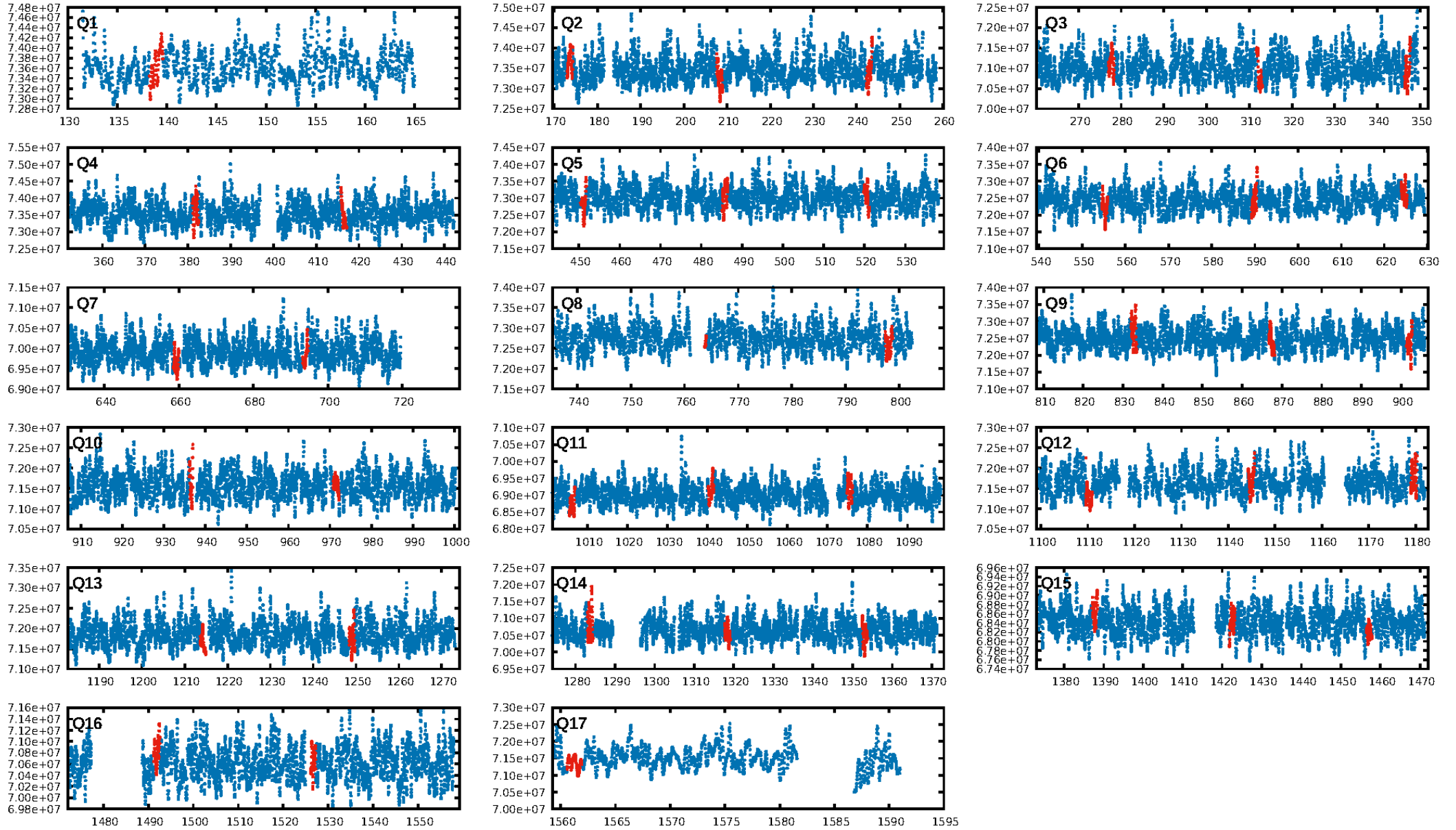
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [11.81σ]
LongPeriod-sig: 100.0% [15.75σ]
ModelChiSquare2-sig: 48.2%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [38/38]
GhostDiagnostic-chr: 0.4399
Centroid-sig: 86.2%
Centroid-so: 0.882 arcsec [6.85σ]
OotOffset-rm: 0.175 arcsec [0.58σ]
KicOffset-rm: 0.121 arcsec [0.39σ]
OotOffset-st: 2/4/4/4 [14]
KicOffset-st: 2/4/4/4 [14]
DiffImageQuality-fgm: 0.79 [11/14]
DiffImageOverlap-fno: 0.00 [0/15]

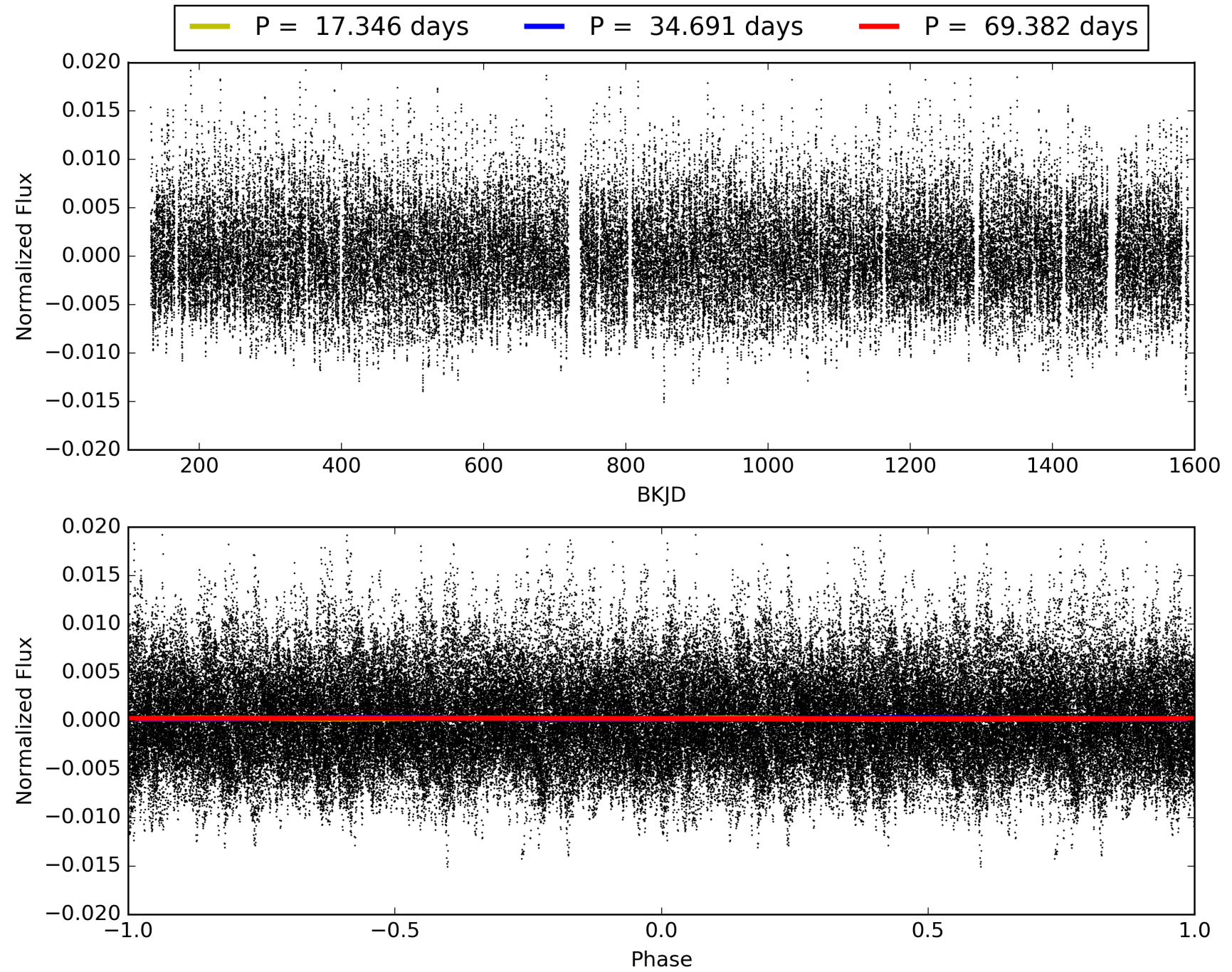
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:53:47 Z

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

TCE 008264075-03, PDC Light Curves

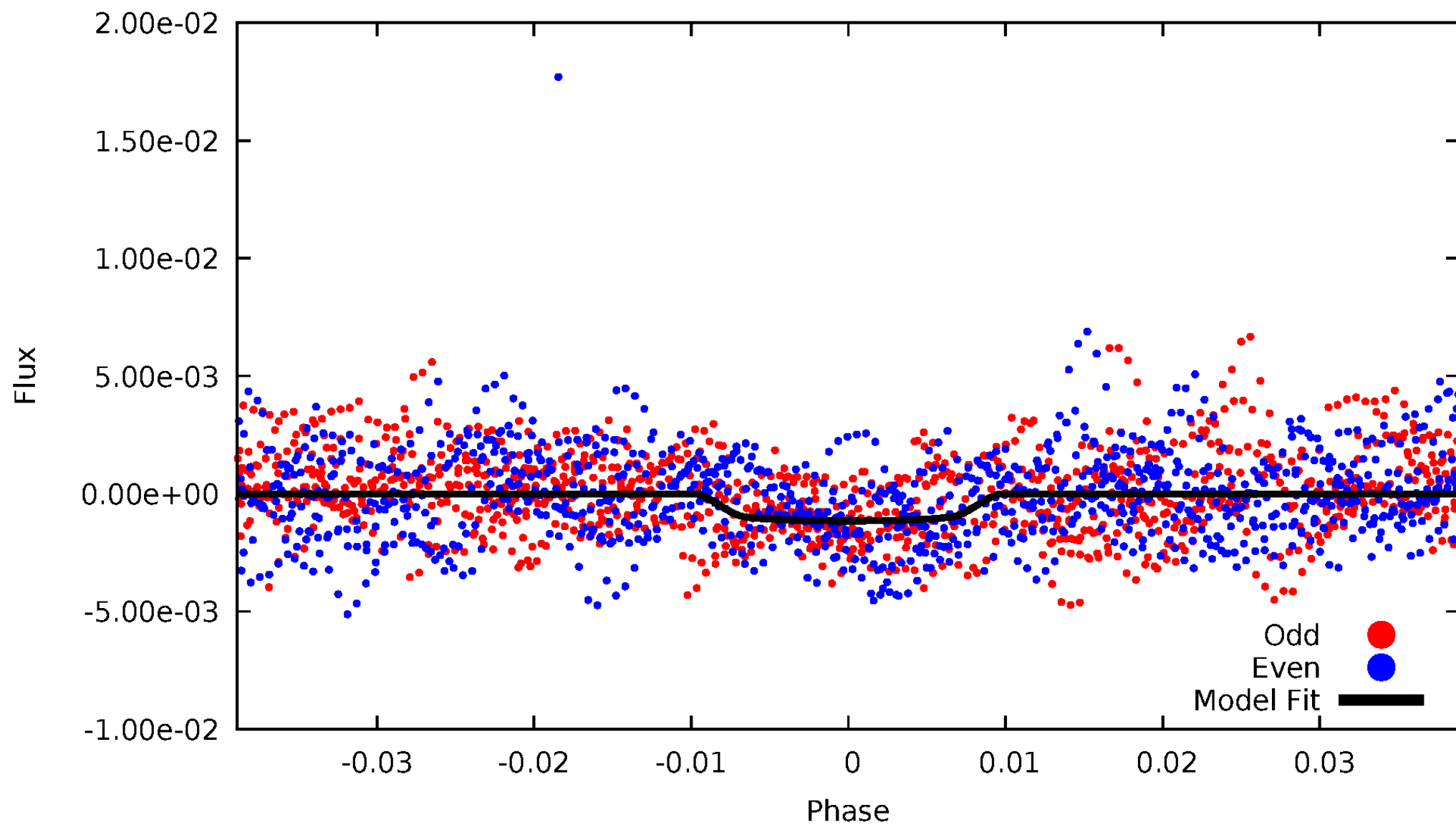


TCE 008264075-03



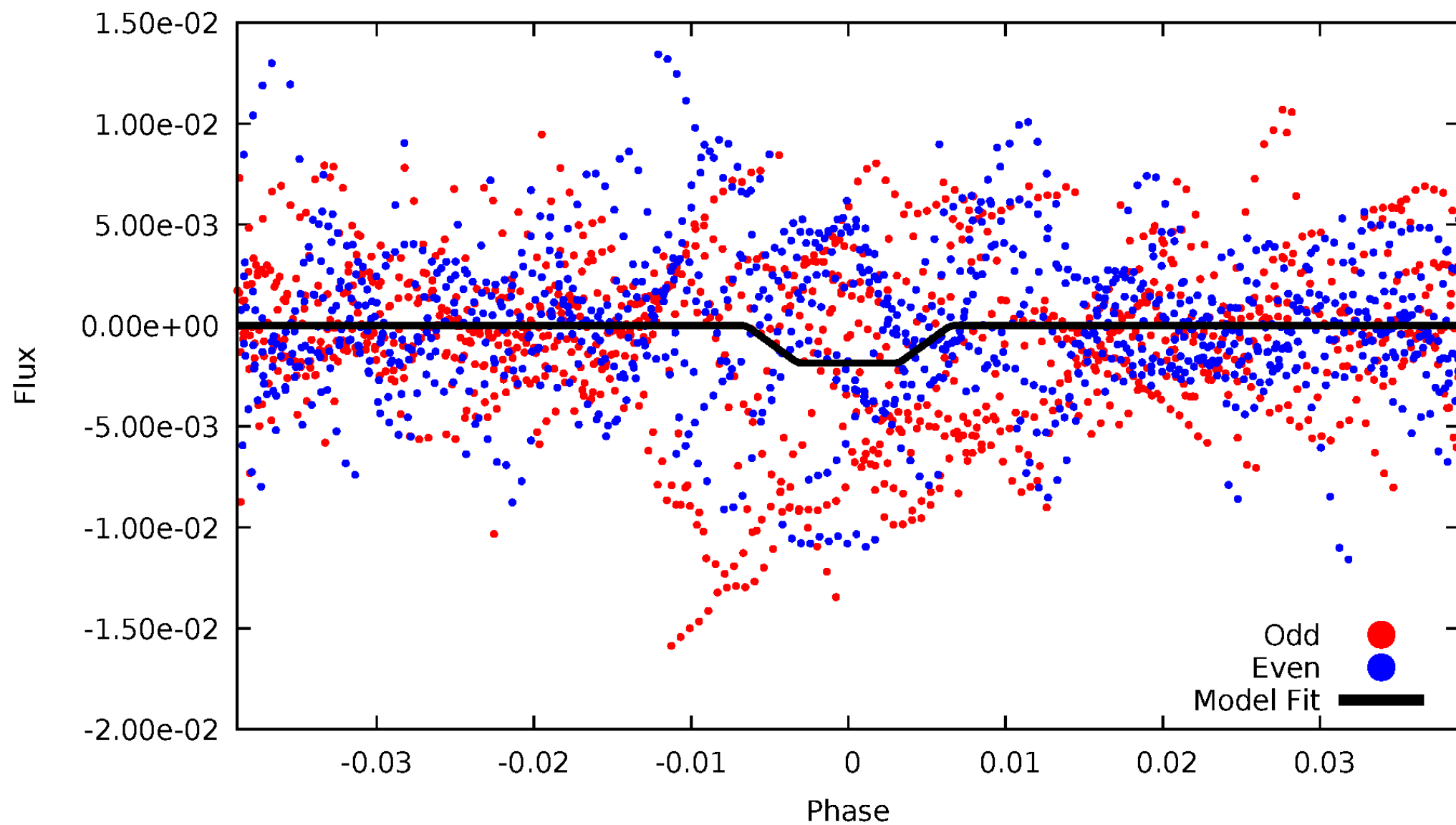
DV Odd/Even

TCE 008264075-03



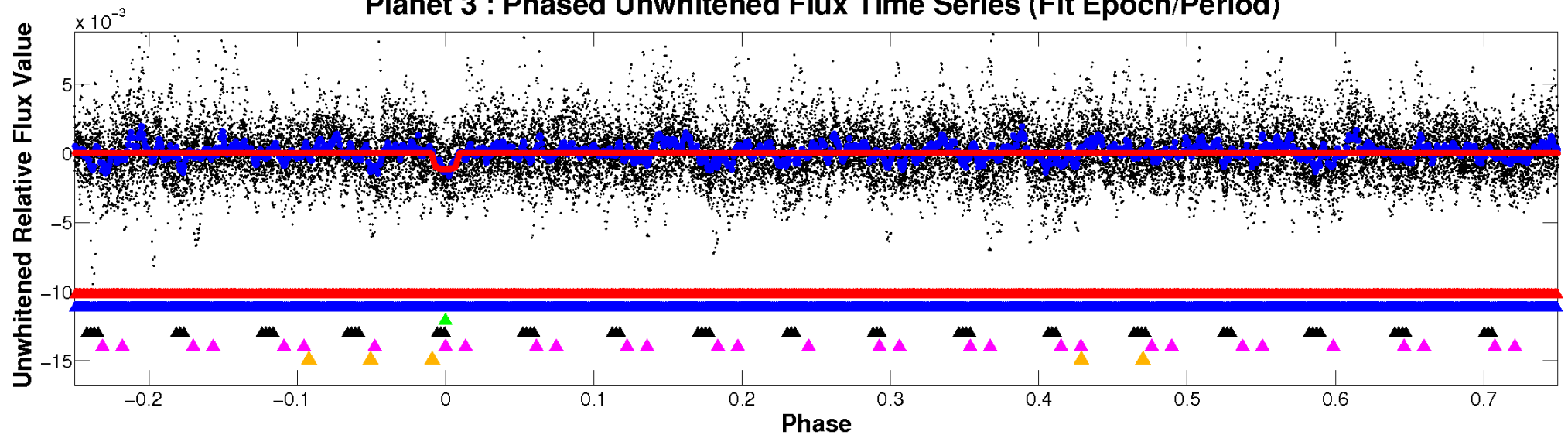
ALT Odd/Even

TCE 008264075-03

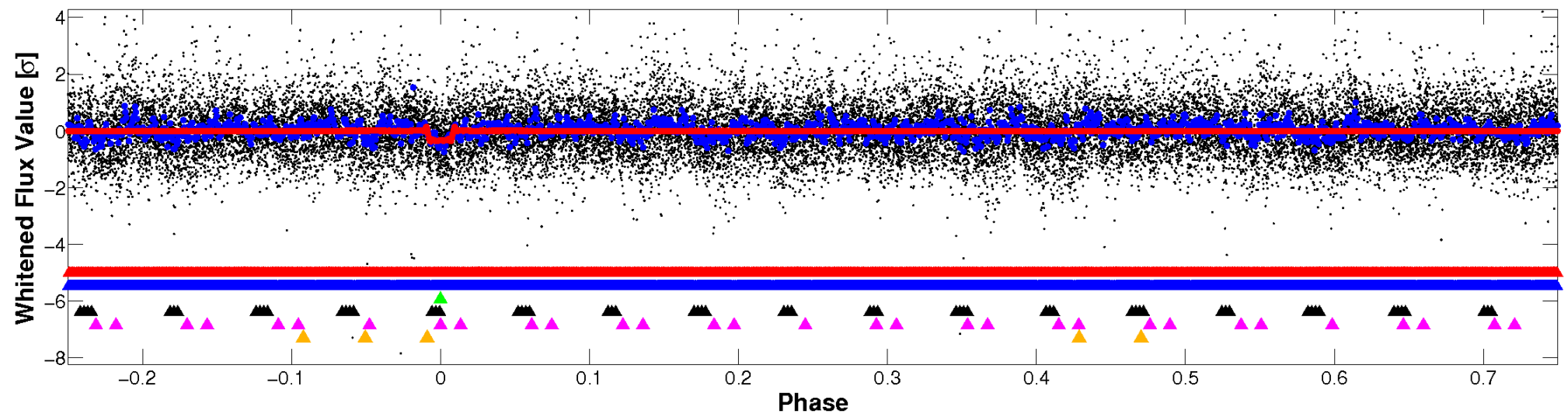


Non-Whitened Vs. Whitened Light Curve

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

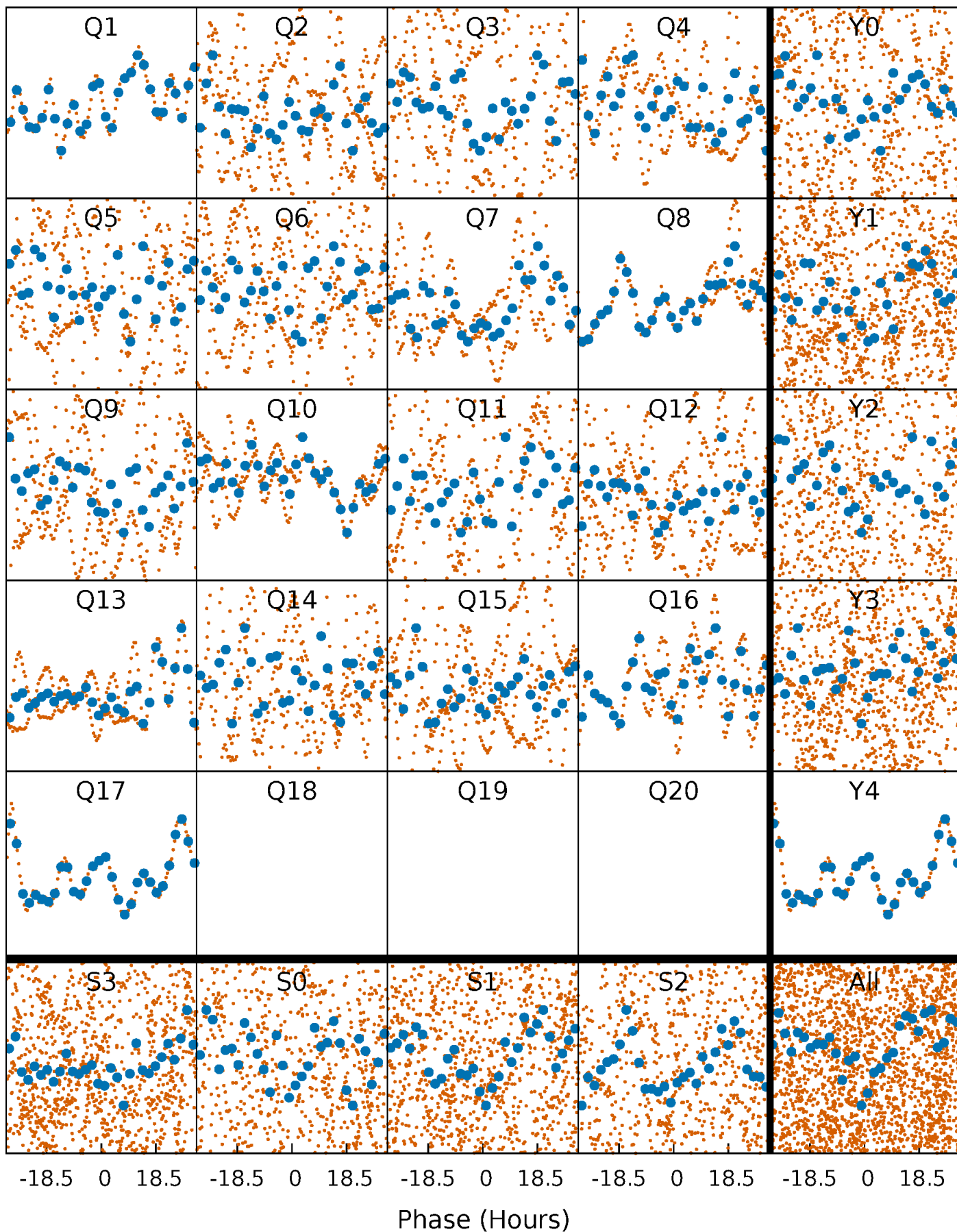


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



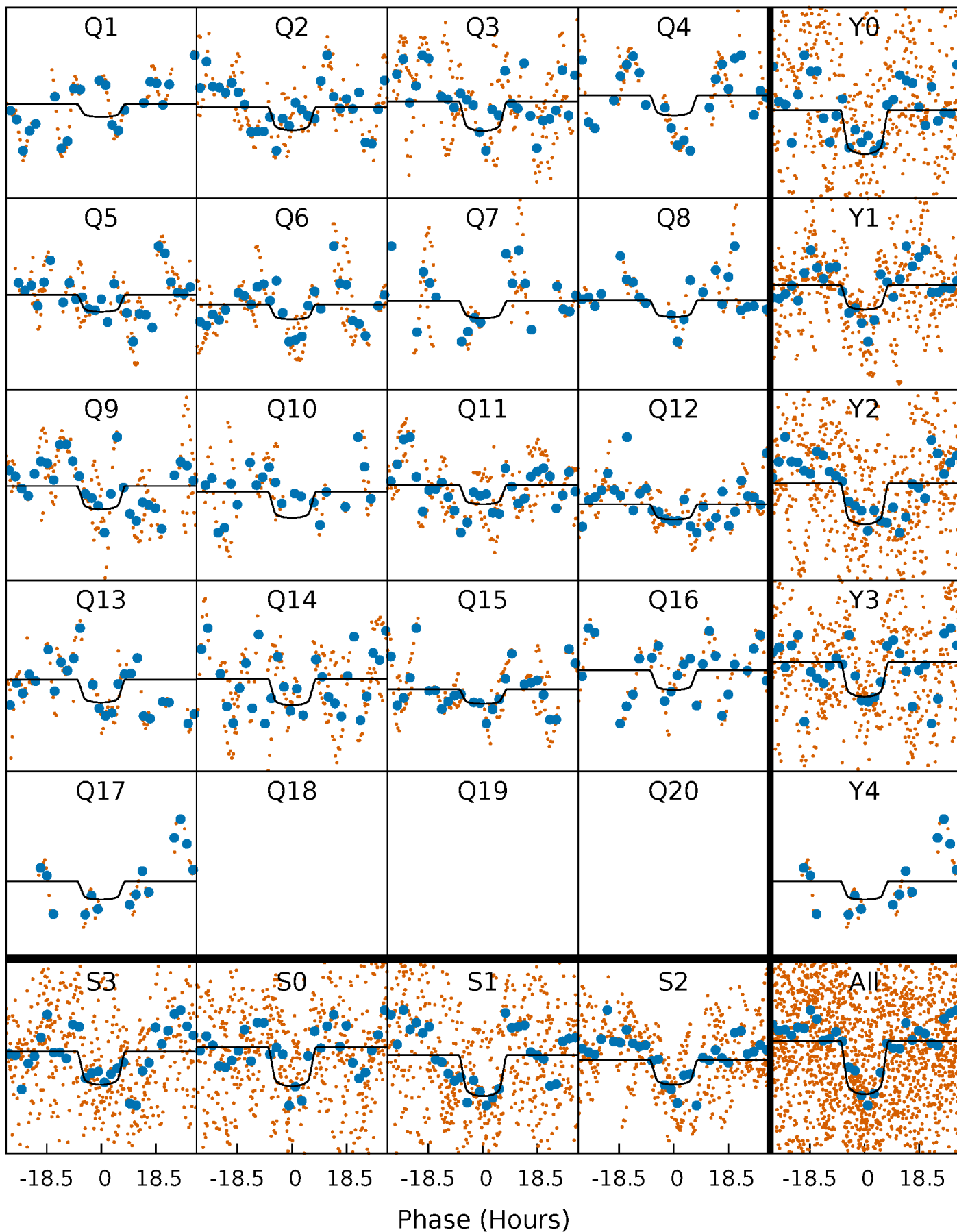
PDC Quarter-Phased Transit Curves

TCE 008264075-03 P= 34.691226 Days $T_0=138.911002$ (BKJD)



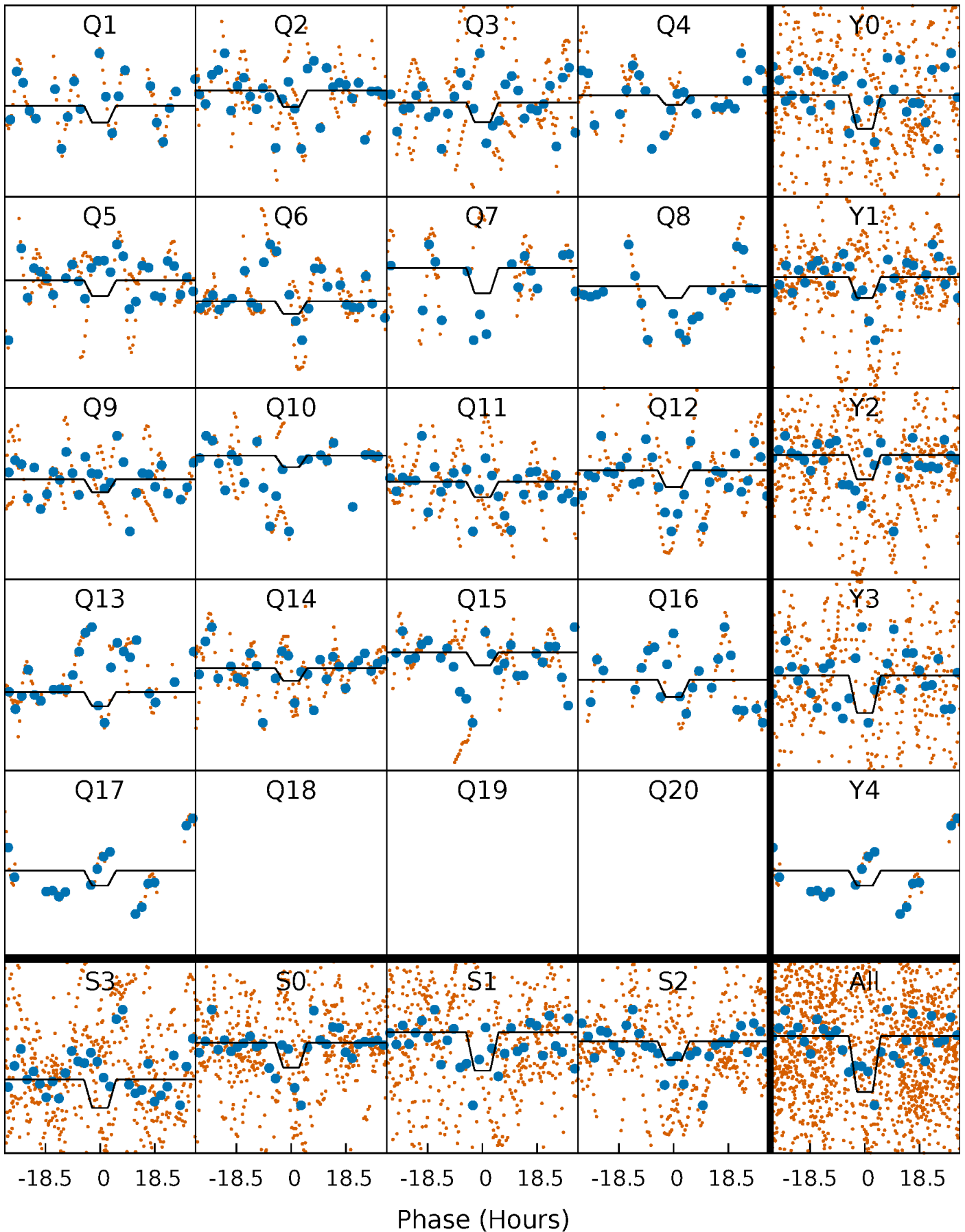
DV Quarter-Phased Transit Curves

TCE 008264075-03 P= 34.691226 Days $T_0=138.911002$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

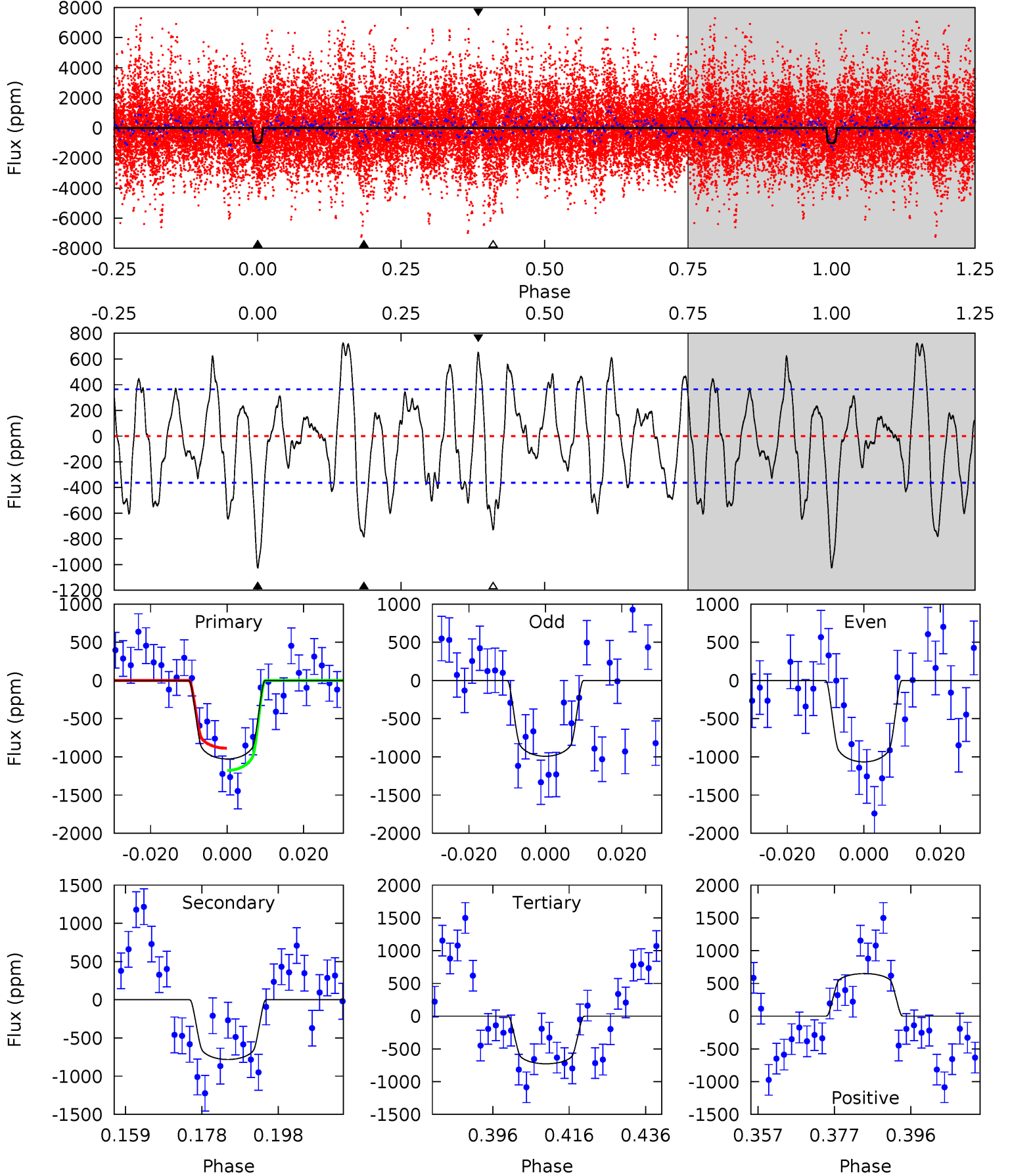
TCE 008264075-03 P= 34.688507 Days $T_0=138.871514$ (BKJD)



DV Model-Shift Uniqueness Test

008264075-03, P = 34.691226 Days, E = 104.219776 Days

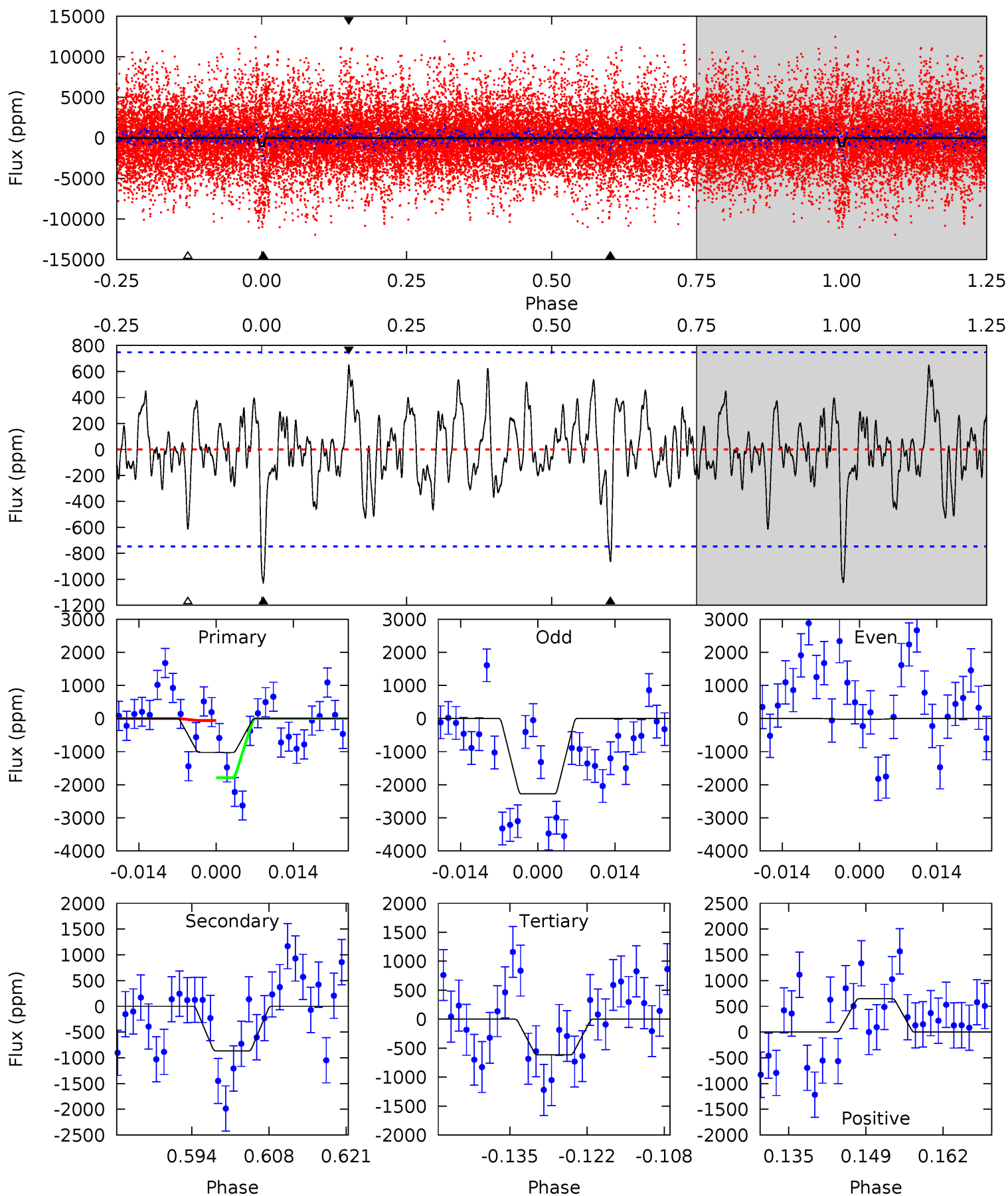
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.8	10.5	9.79	8.73	4.89	2.33	4.30	4.03	5.09	0.73	1.78	0.50	1.02	0.41	1.95



Alt Model-Shift Uniqueness Test

008264075-03, P = 34.688507 Days, E = 104.183007 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.83	5.75	4.09	4.30	4.97	2.47	1.43	2.74	2.53	1.66	1.45	7.50	0.53	0.39	5.73



Stellar Parameters For KIC 008264075

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7872^{+216}_{-351}	$4.049^{+0.150}_{-0.150}$	$0.070^{+0.200}_{-0.350}$	$2.124^{+0.494}_{-0.494}$	$1.841^{+0.147}_{-0.319}$	$0.271^{+0.216}_{-0.111}$
	+3%/-4%	+4%/-4%	+286%/-500%	+23%/-23%	+8%/-17%	+80%/-41%
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 008264075-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-782 ± 74	$8.30^{+1.20}_{-1.07}$	1397^{+91}_{-92}	6780^{+357}_{-390}	397^{+119}_{-94}
Alt.	-865 ± 150	$10.02^{+1.29}_{-1.35}$	1399^{+95}_{-94}	6312^{+418}_{-380}	301^{+118}_{-78}

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 $A_{obs} \gg 1.0$

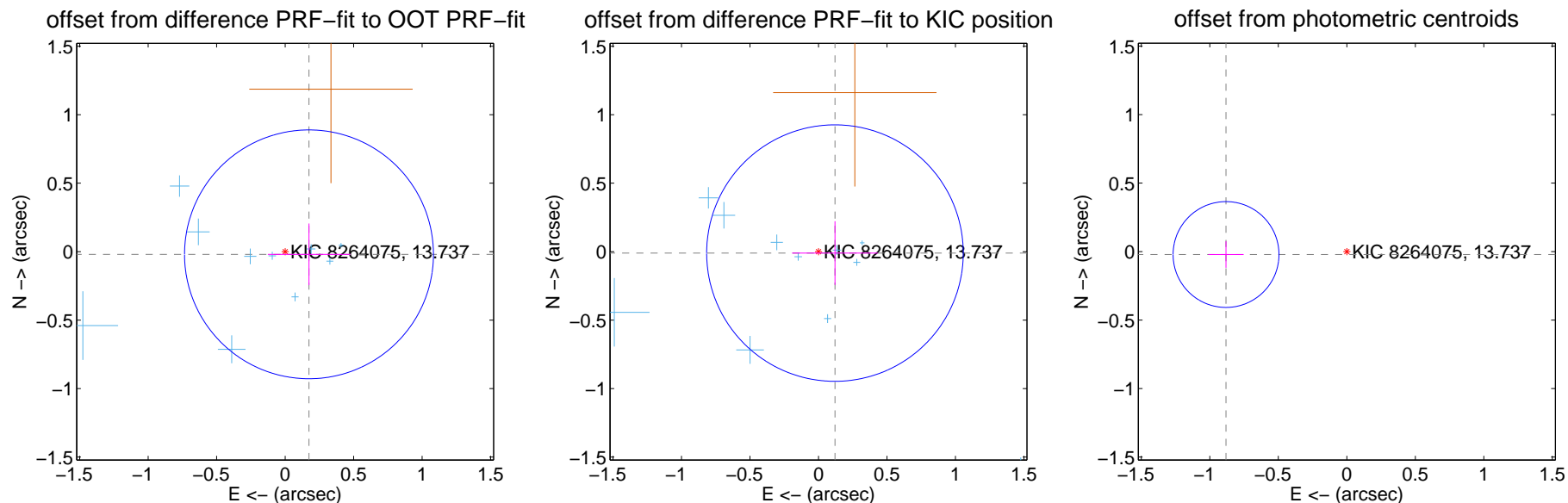
DV Centroid Data

Supplemental centroid analysis for 008264075-03. Kepler magnitude: 13.74. Transit SNR 7.04

There are 11 quarters with good PRF difference image offsets

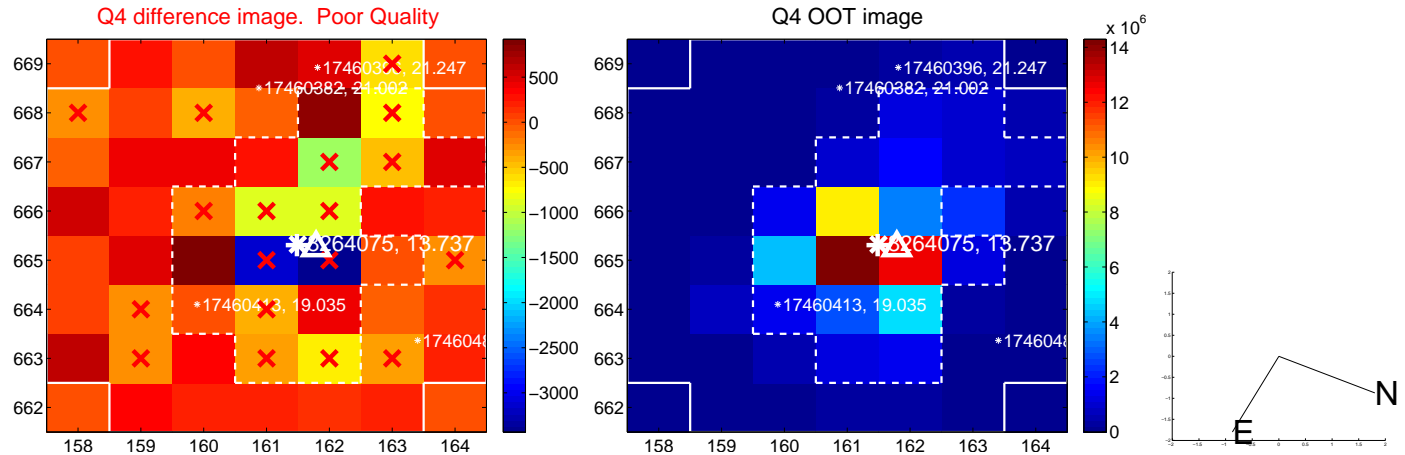
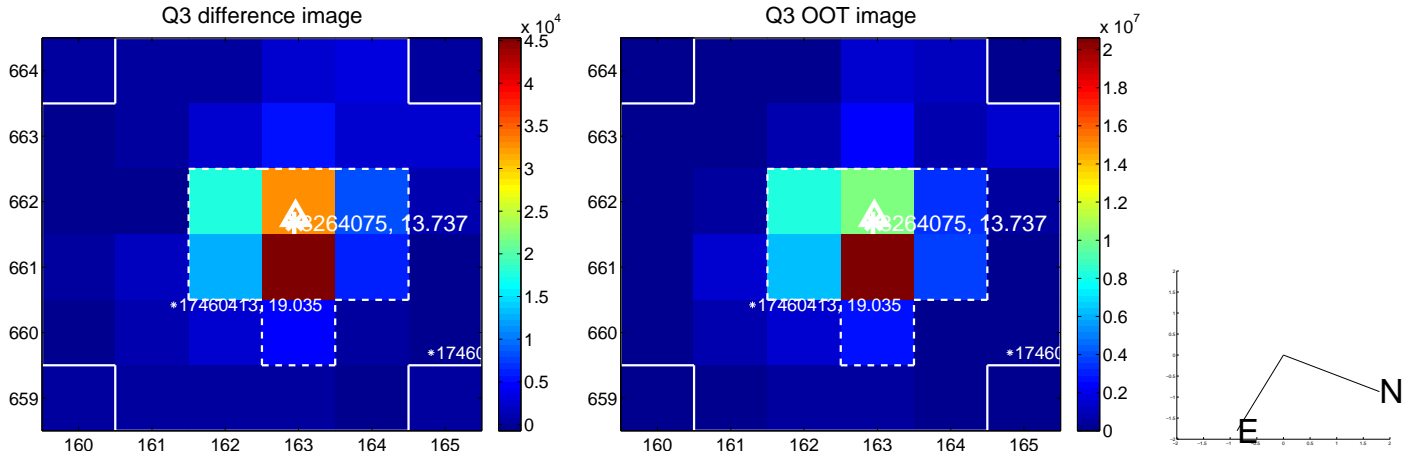
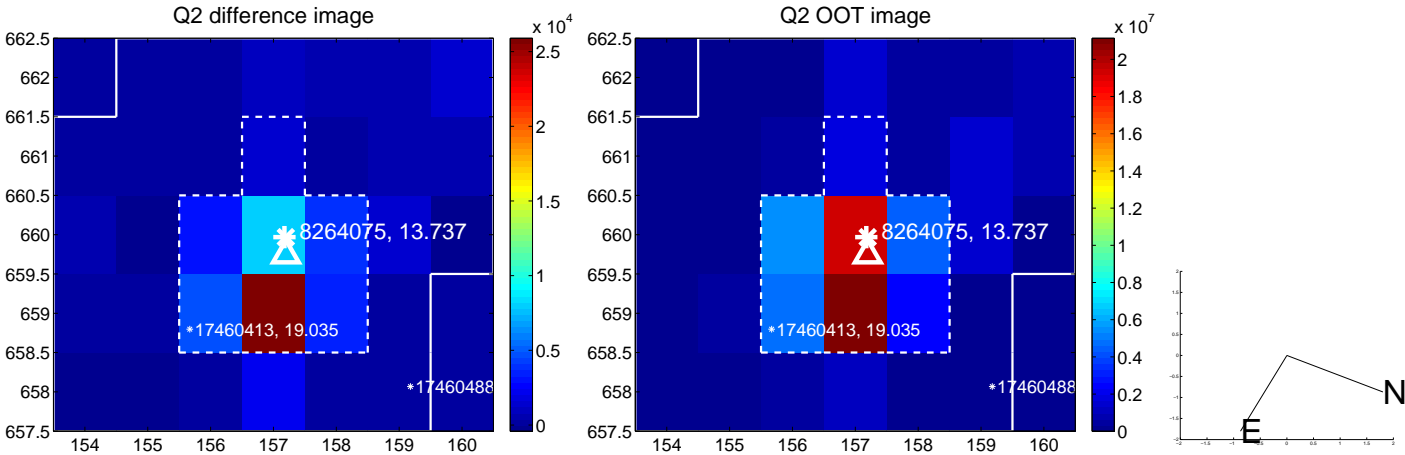
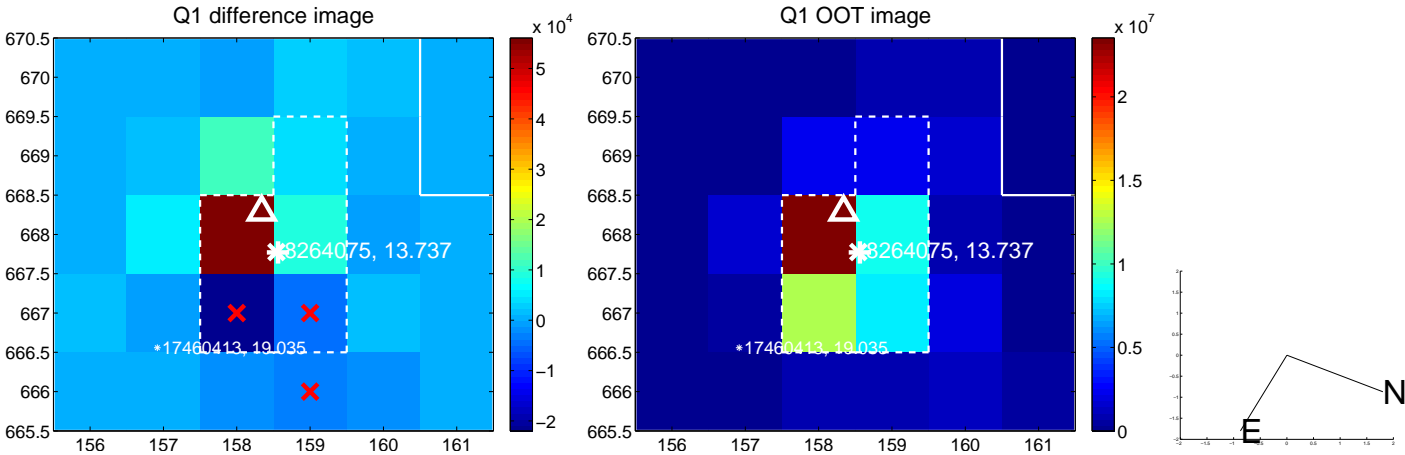
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.175 ± 0.303	0.58	-0.174 ± 0.301	-0.020 ± 0.225
PRF-fit source offset from KIC position	0.121 ± 0.312	0.39	-0.120 ± 0.313	-0.010 ± 0.233
photometric centroid source offset	0.88 ± 0.13	6.85	0.88 ± 0.13	-0.02 ± 0.10

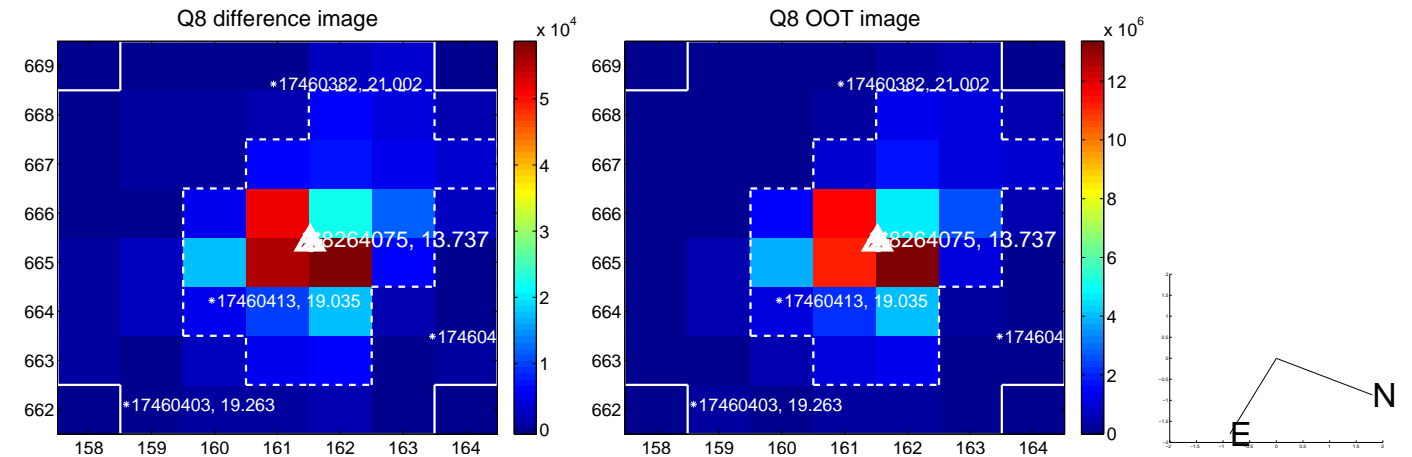
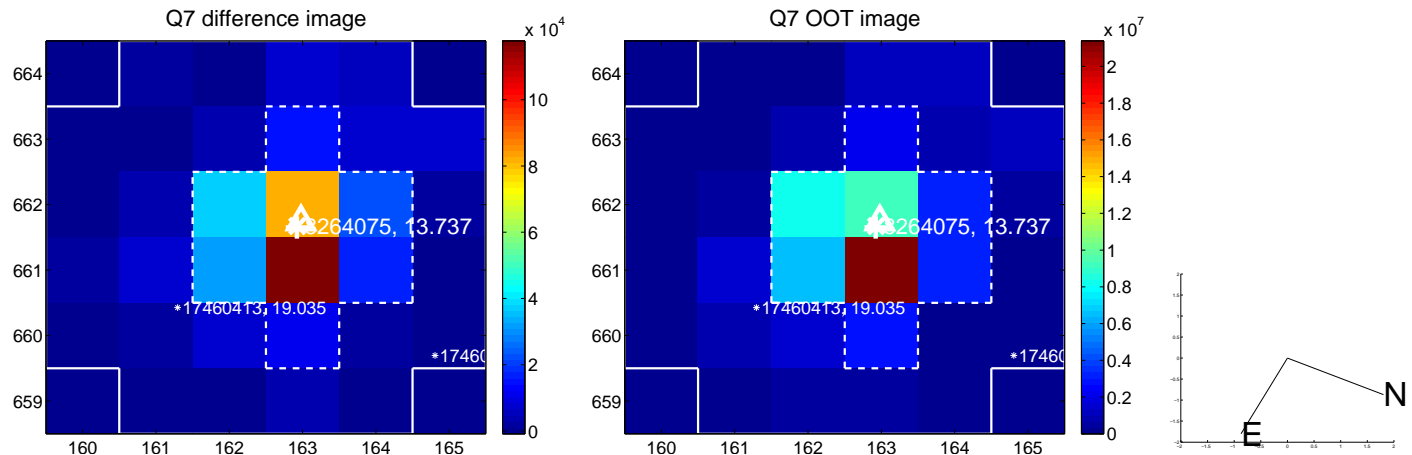
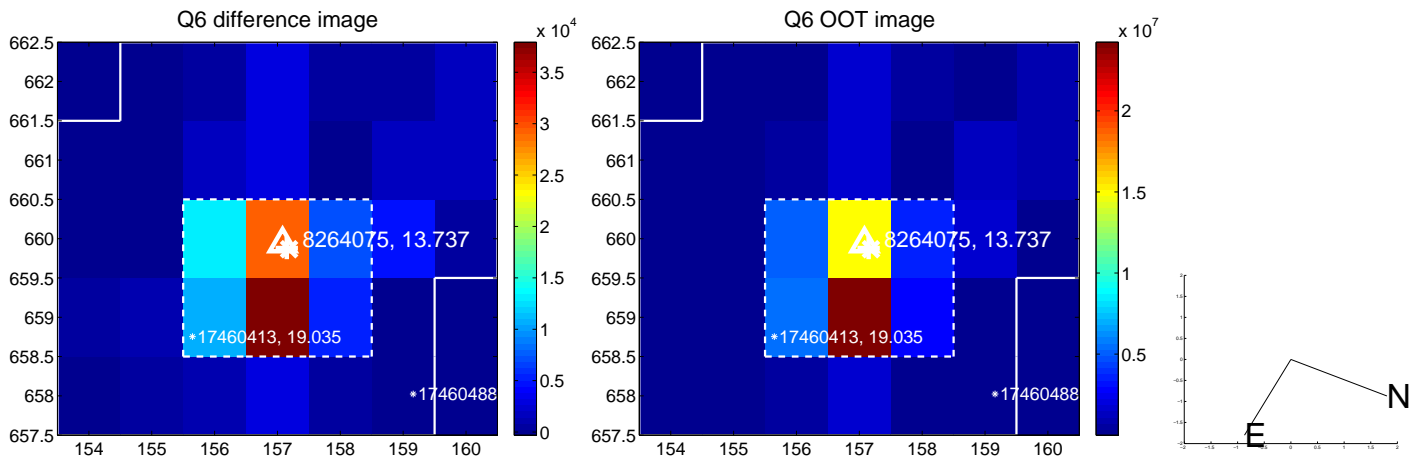
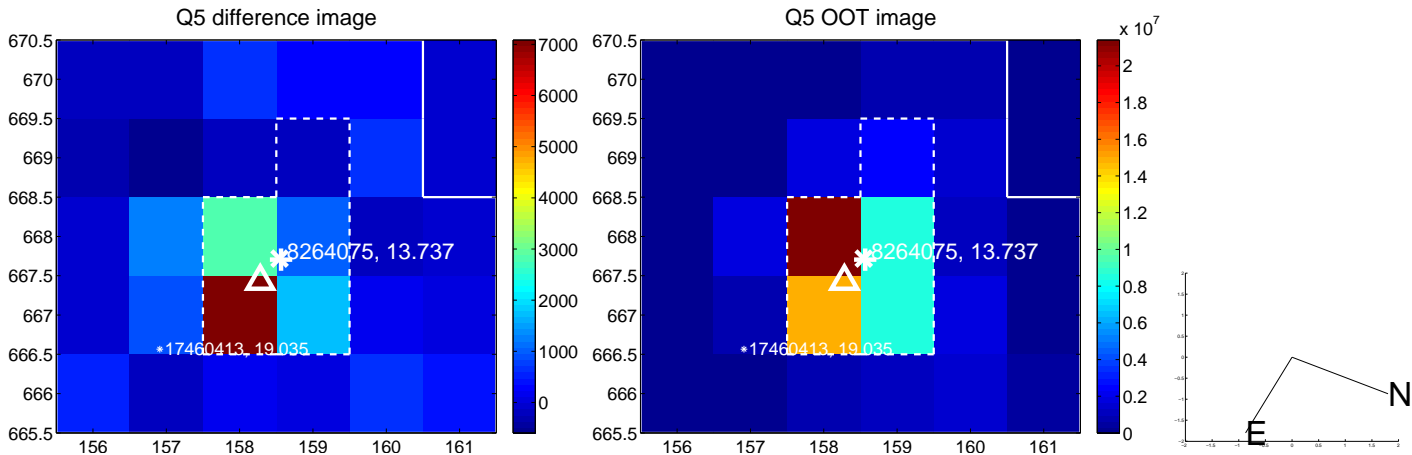


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

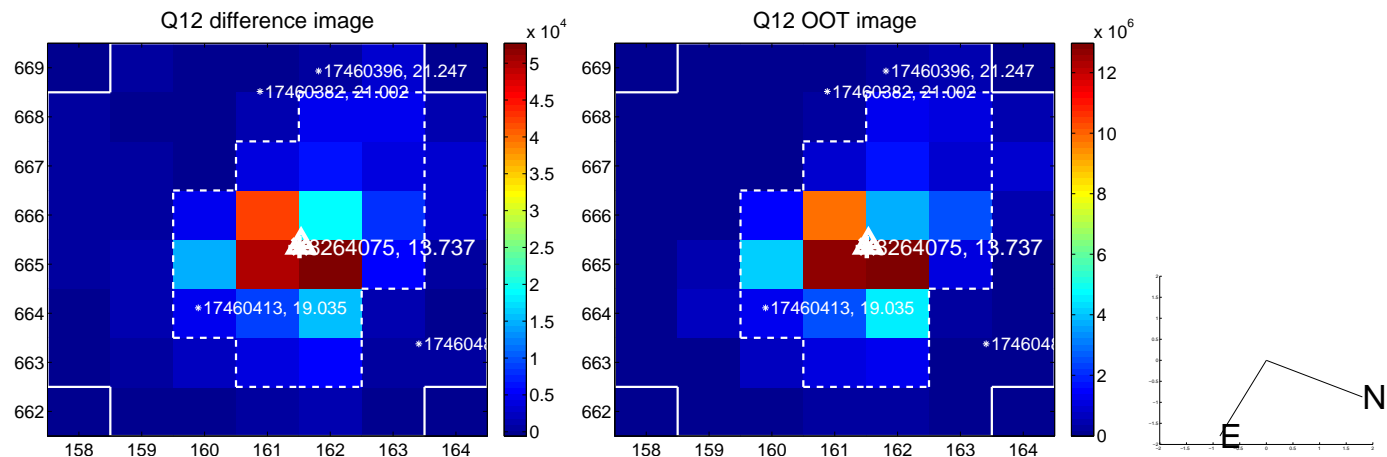
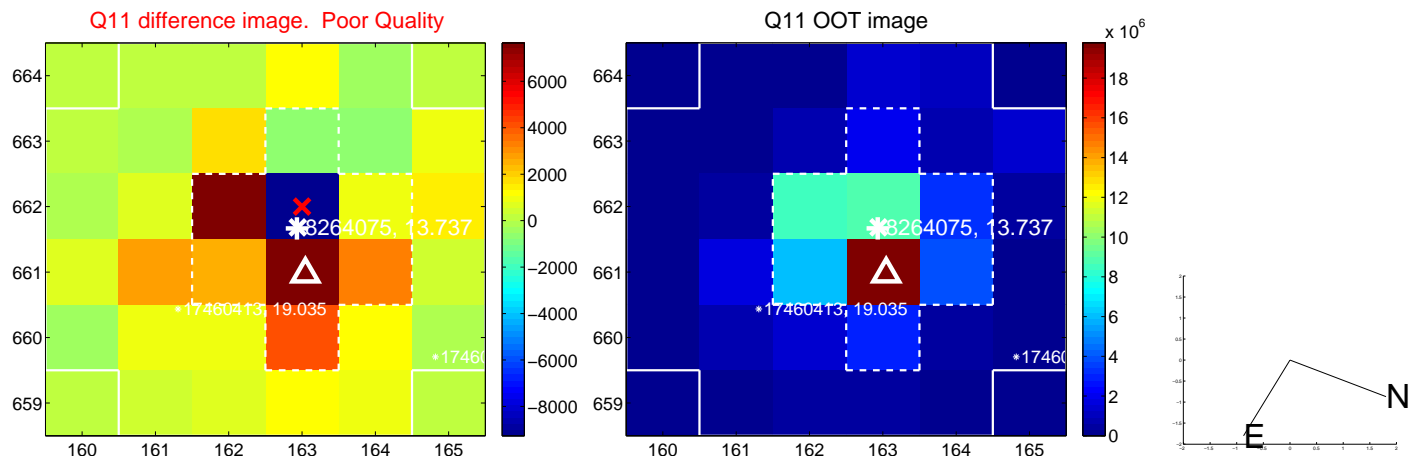
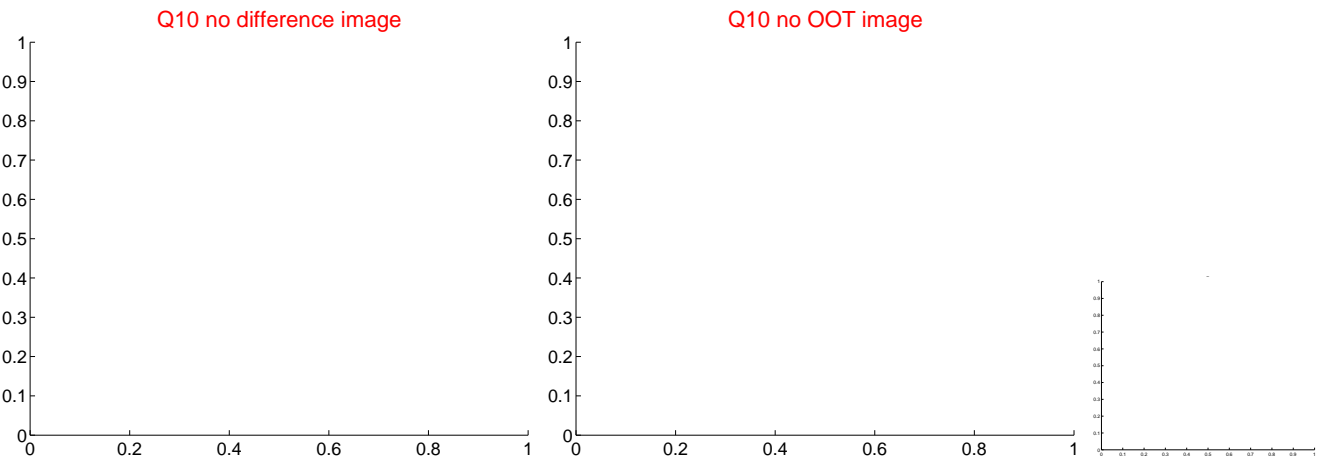
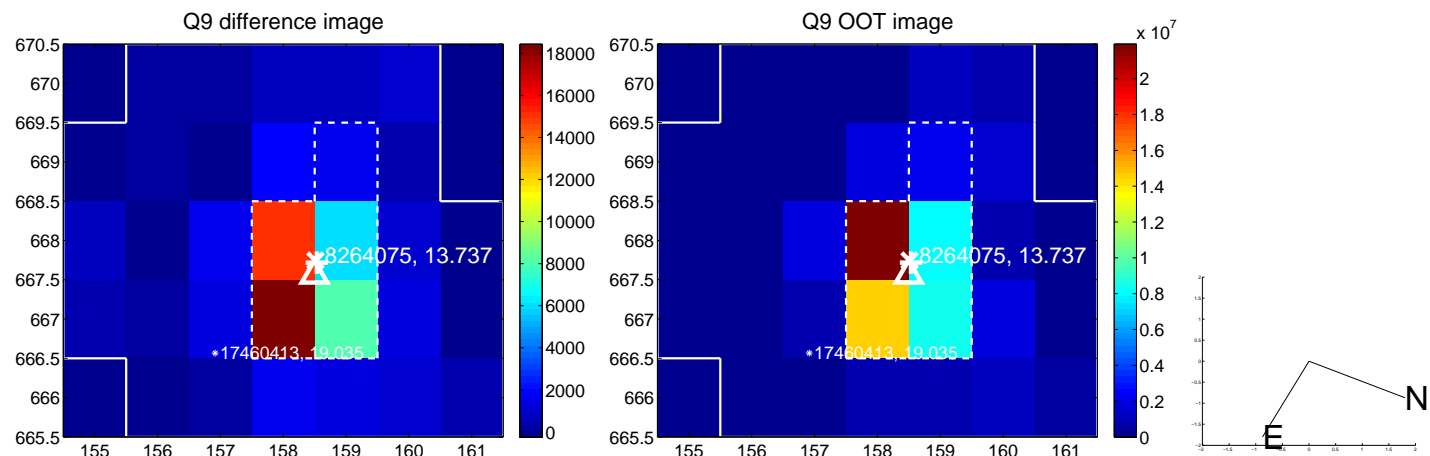
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



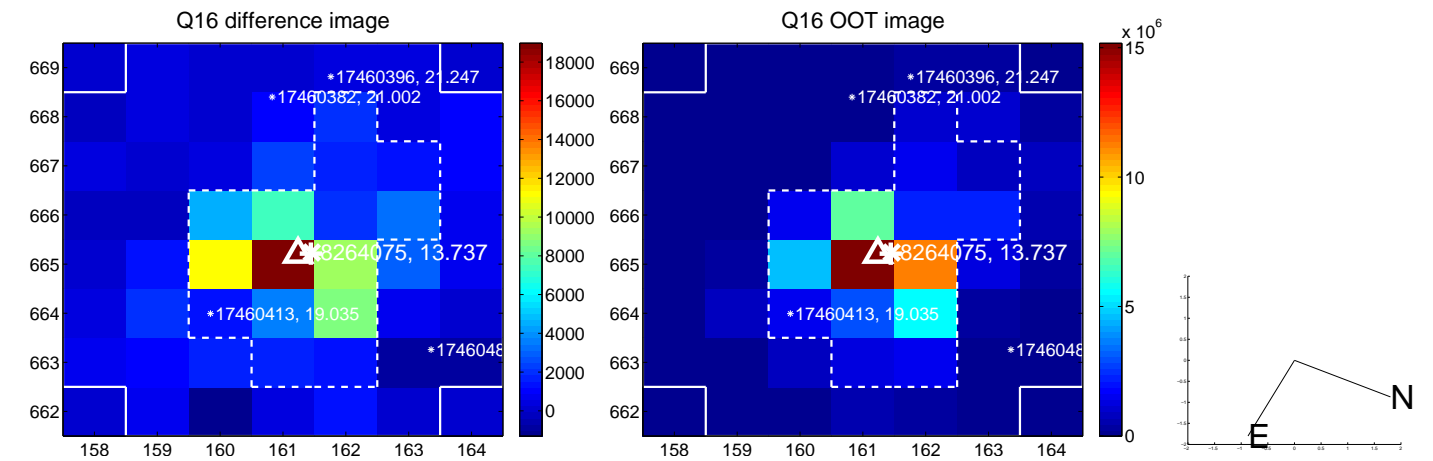
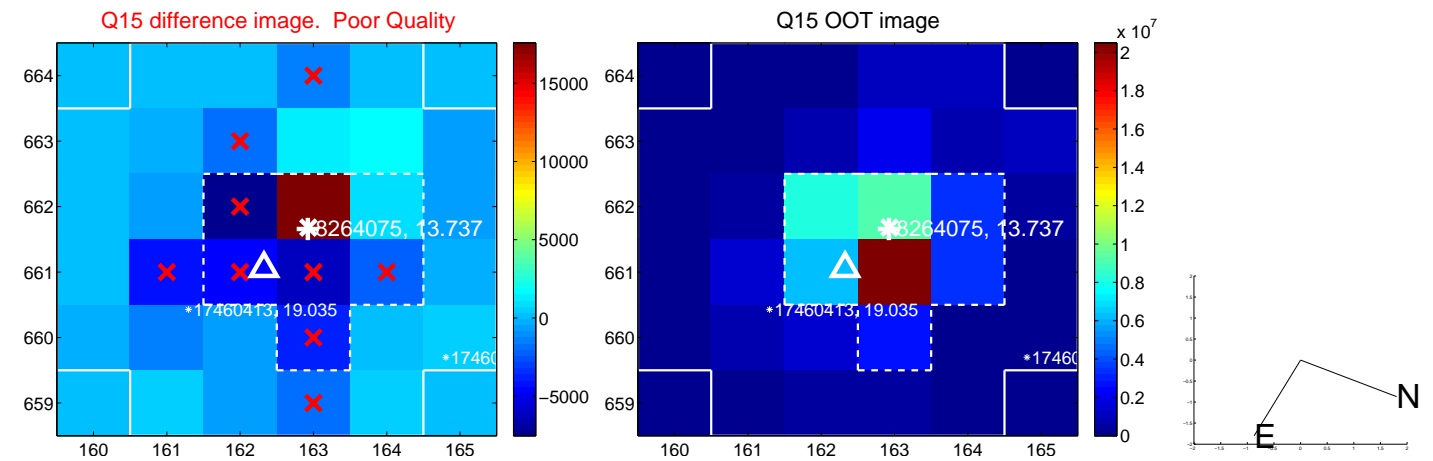
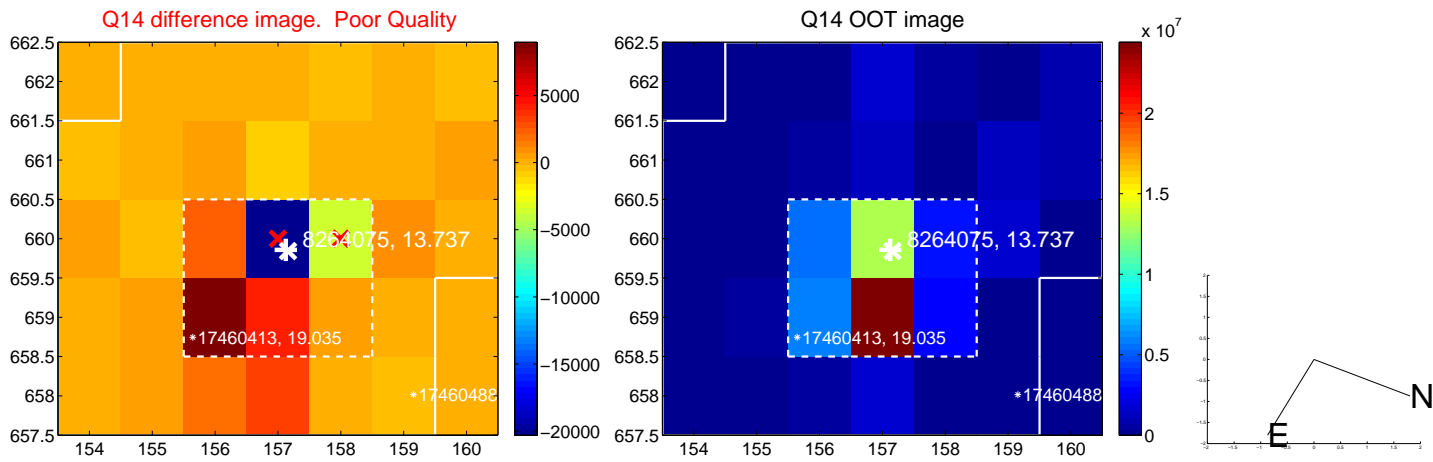
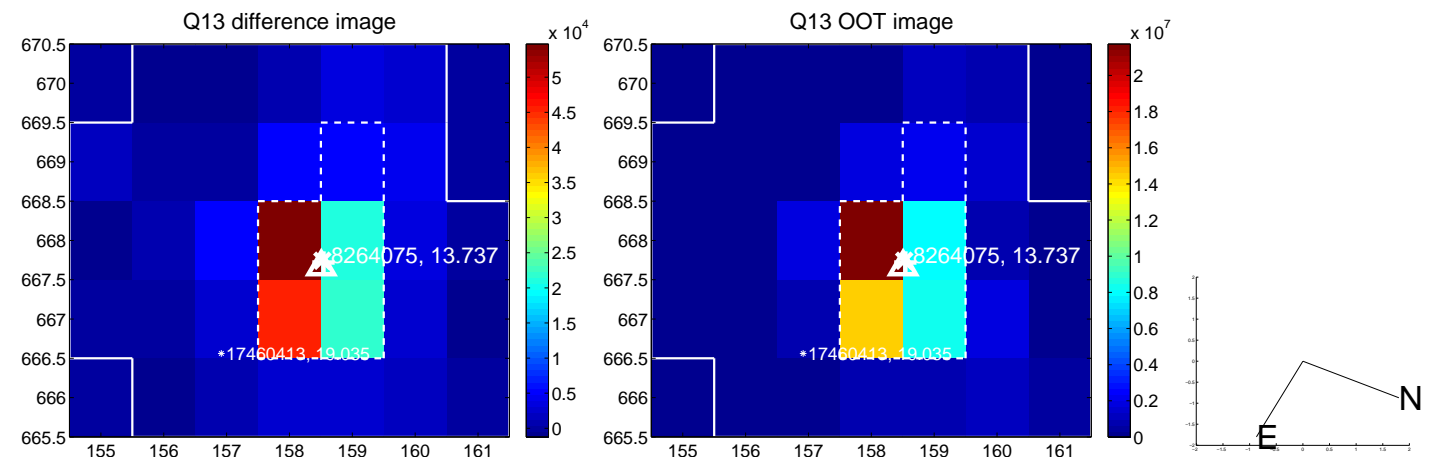
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



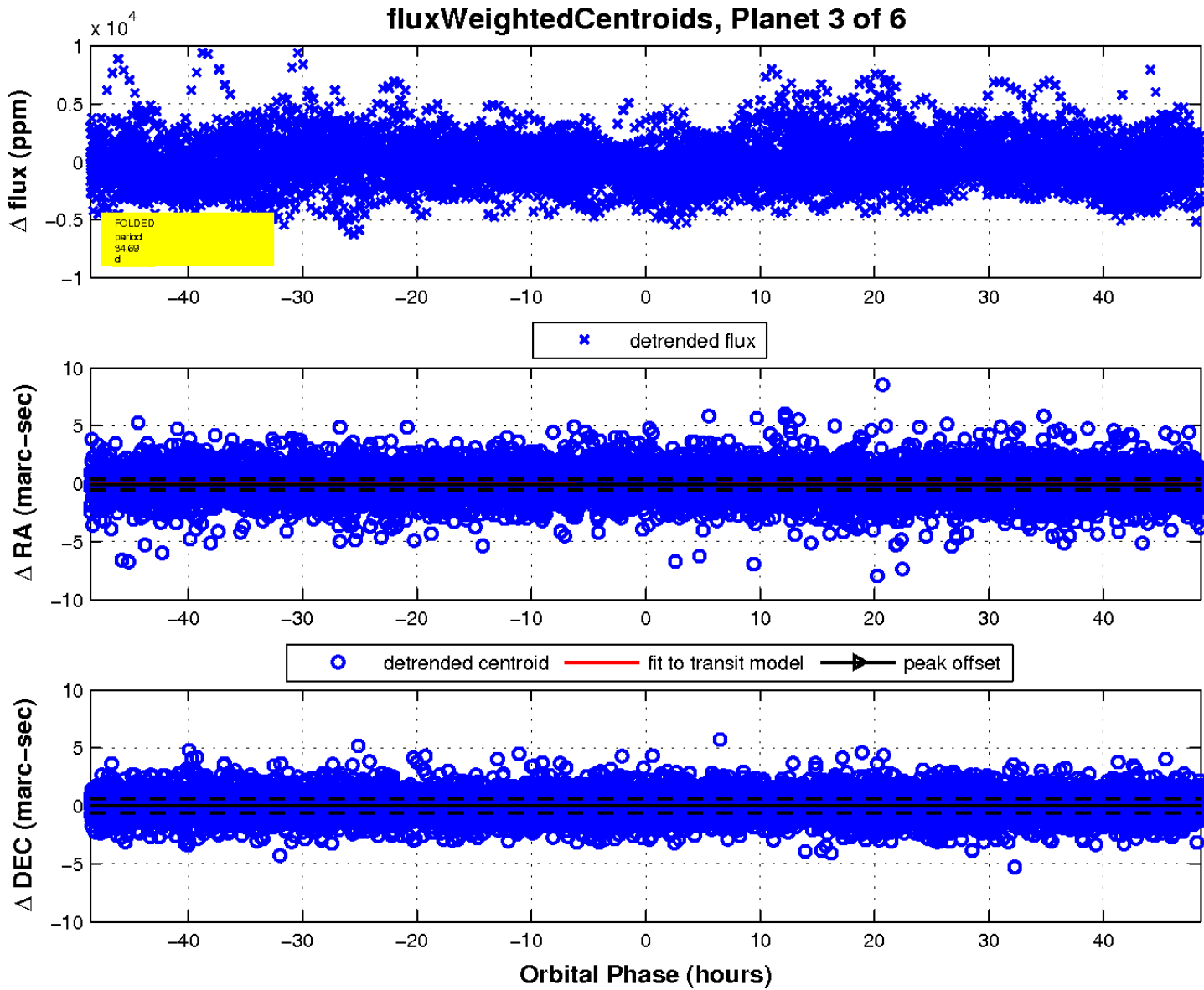
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

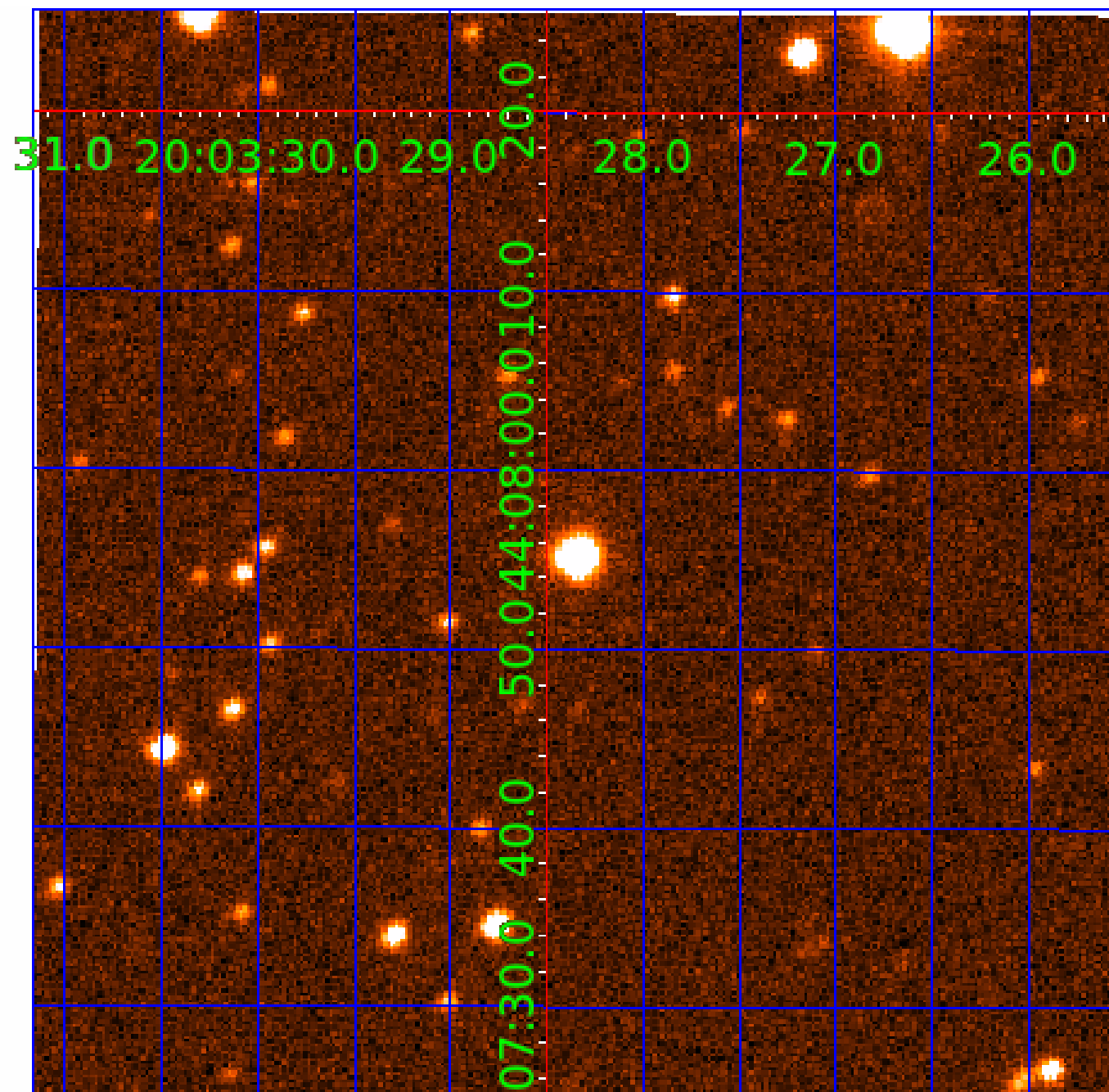
Q17 no difference image

Q17 no OOT image



UKIRT Image

Declination



KIC 008264075

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})
008264075-01	OBS	No	0.665089	132.091437	42.1	1.837	10.3	4.1	2.12	7872	1.59	46433.47
008264075-02	OBS	No	0.646726	131.618387	83.4	1.196	8.1	5.9	2.12	7872	2.26	48199.67
008264075-03	OBS	No	34.691226	138.911002	1154.1	16.184	7.3	7.0	2.12	7872	8.32	238.26
008264075-04	OBS	No	24.493160	136.621490	1255.1	12.948	7.4	7.2	2.12	7872	9.15	378.98
008264075-05	OBS	No	46.962667	149.061556	2568.1	9.365	9.0	7.0	2.12	7872	19.45	159.10
008264075-06	OBS	No	328.845738	138.601439	456.2	3.500	8.2	-1.0	2.12	7872	4.60	11.88

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264075-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
008264075-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—HALO_GHOST
008264075-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

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

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

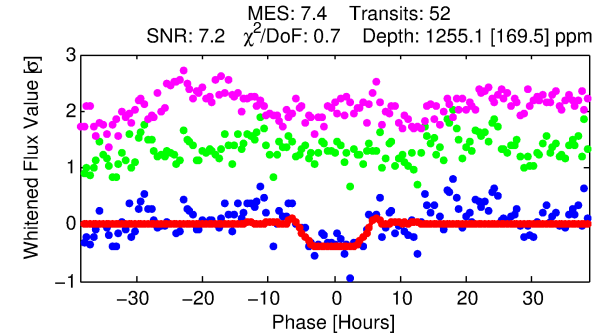
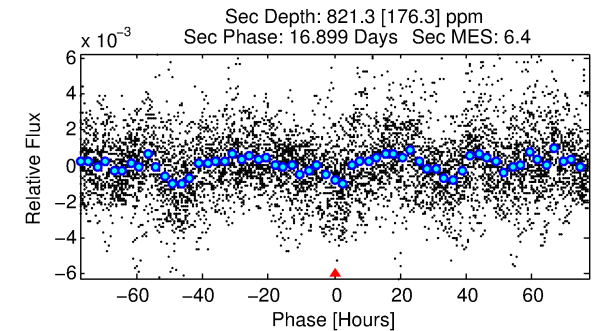
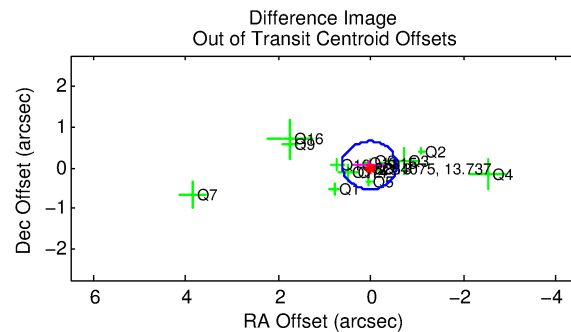
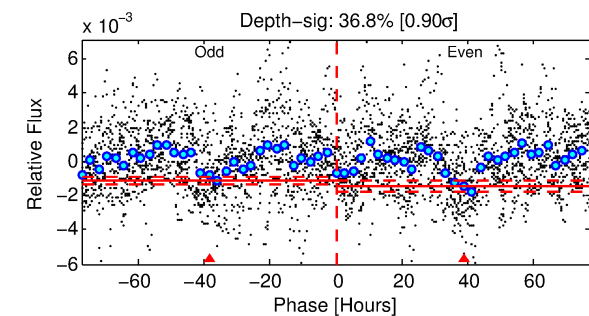
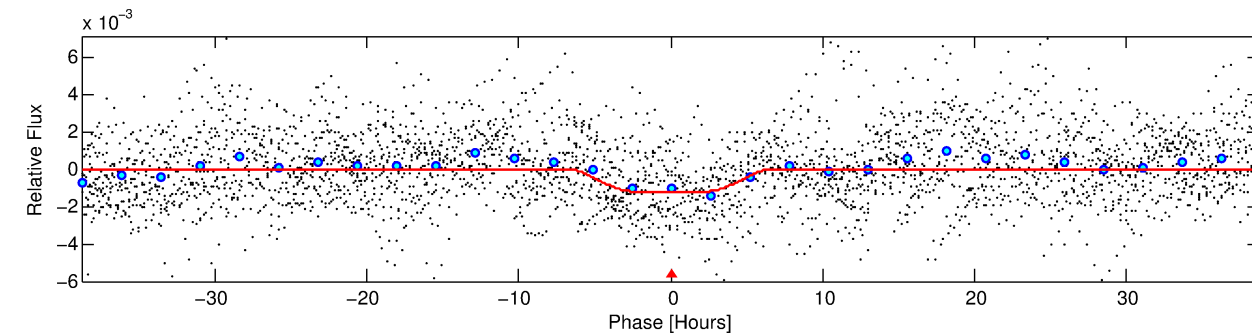
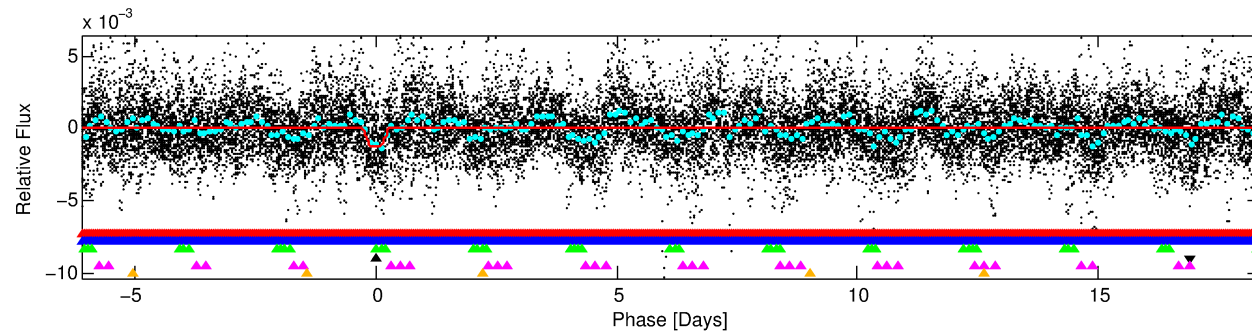
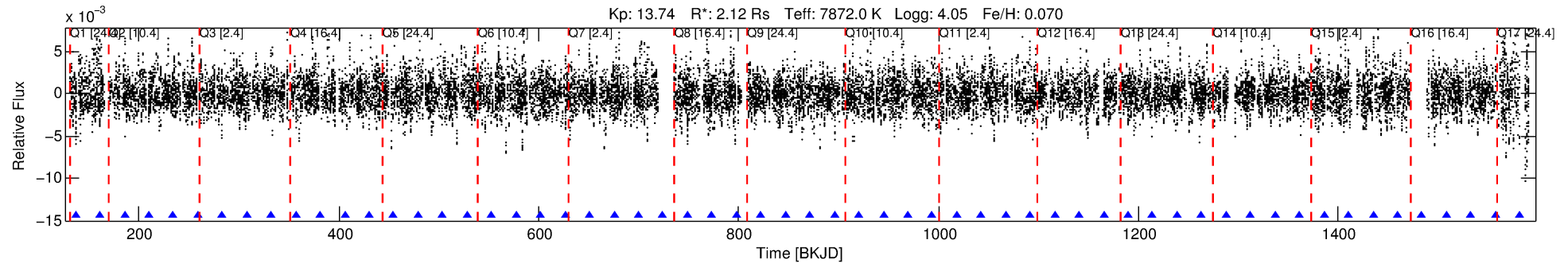
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264075-04

No Significant Match Found

DV One-Page Summary

KIC: 8264075 Candidate: 4 of 6 Period: 24.493 d



DV Fit Results:

Period = 24.49316 [0.00078] d
Epoch = 136.6215 [0.0263] BKJD
Rp/R* = 0.0395 [0.0030]
a/R* = 6.31 [0.65]
b = 0.95 [0.01]
Seff = 378.98 [125.05]
Teq = 1125 [93] K
Rp = 9.15 [2.24] Re
a = 0.2024 [0.0391] AU
Ag = 220.92 [84.40] [2.61 σ]
Teffp = 6706 [532] K [10.33 σ]

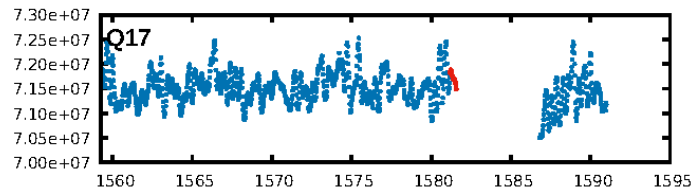
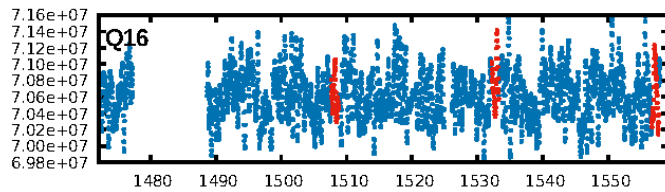
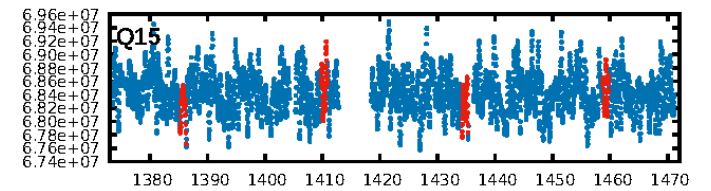
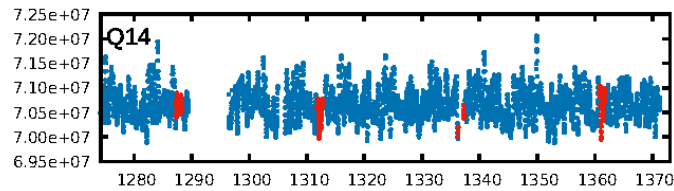
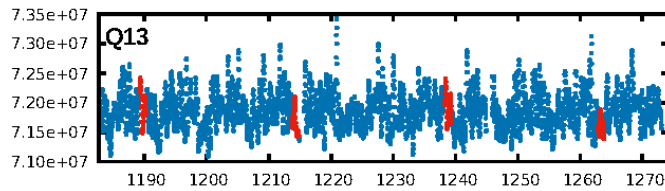
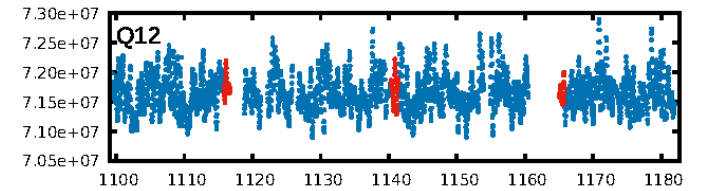
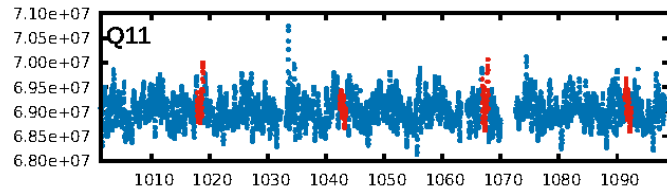
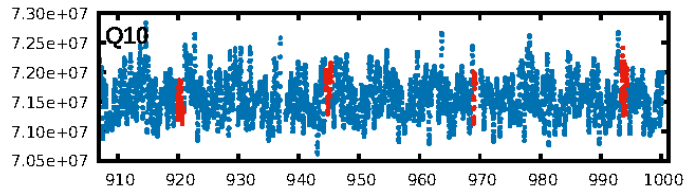
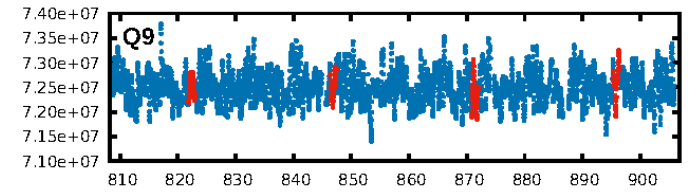
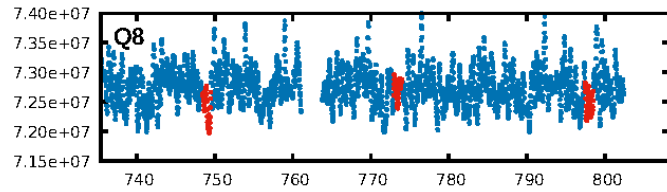
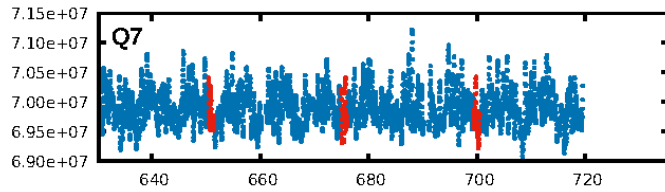
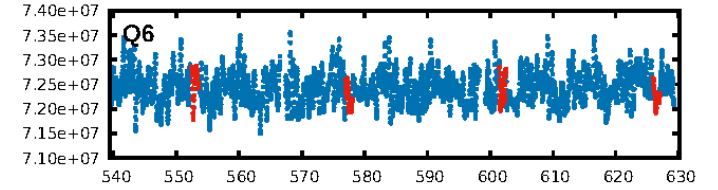
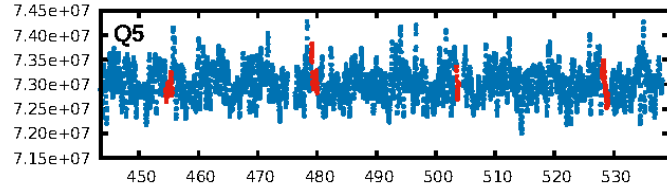
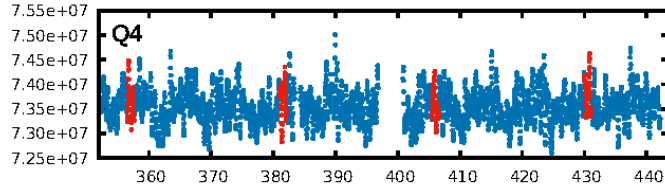
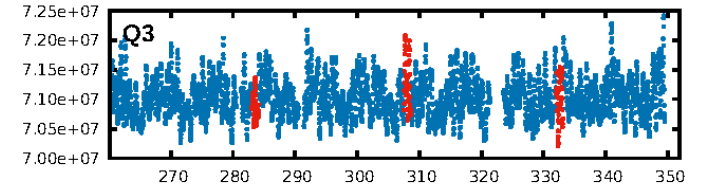
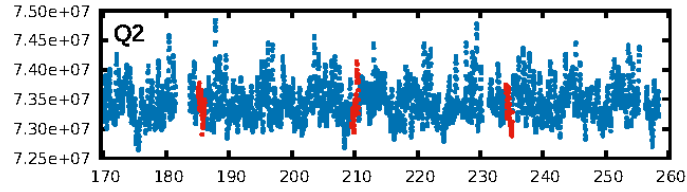
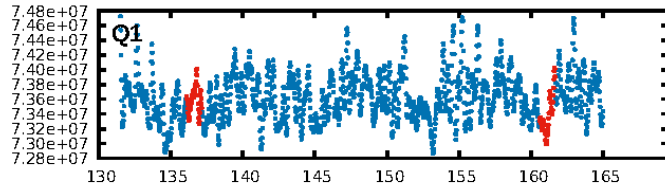
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [43.73 σ]
LongPeriod-sig: 100.0% [11.81 σ]
ModelChiSquare2-sig: 5.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [49/49]
GhostDiagnostic-chr: 0.5663
Centroid-sig: 32.4%
Centroid-so: 0.815 arcsec [6.69 σ]
OotOffset-rm: 0.066 arcsec [0.34 σ]
KicOffset-rm: 0.065 arcsec [0.27 σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.69 [11/16]
DiffImageOverlap-fno: 0.00 [0/16]

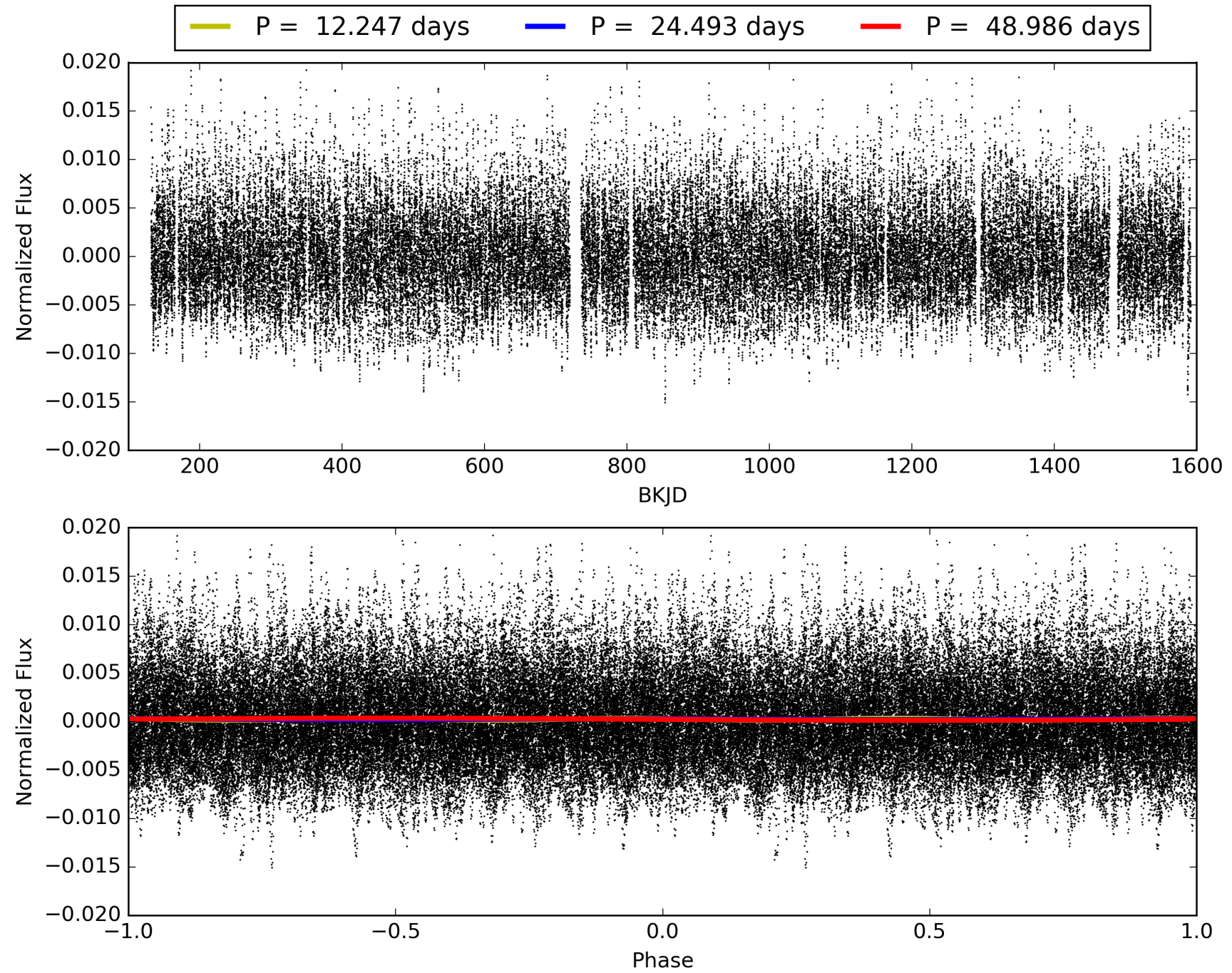
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:53:52 Z

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

TCE 008264075-04, PDC Light Curves

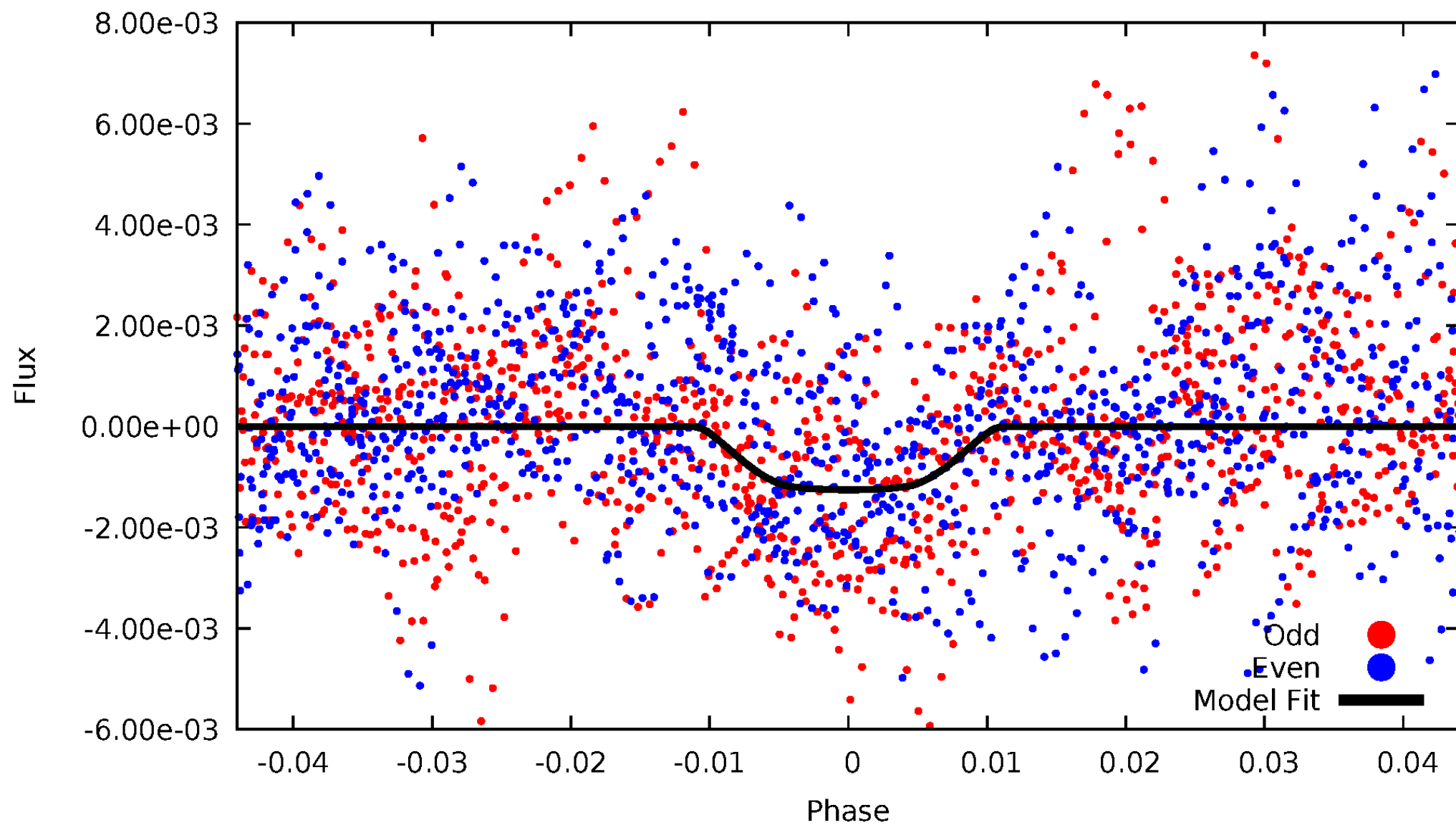


TCE 008264075-04



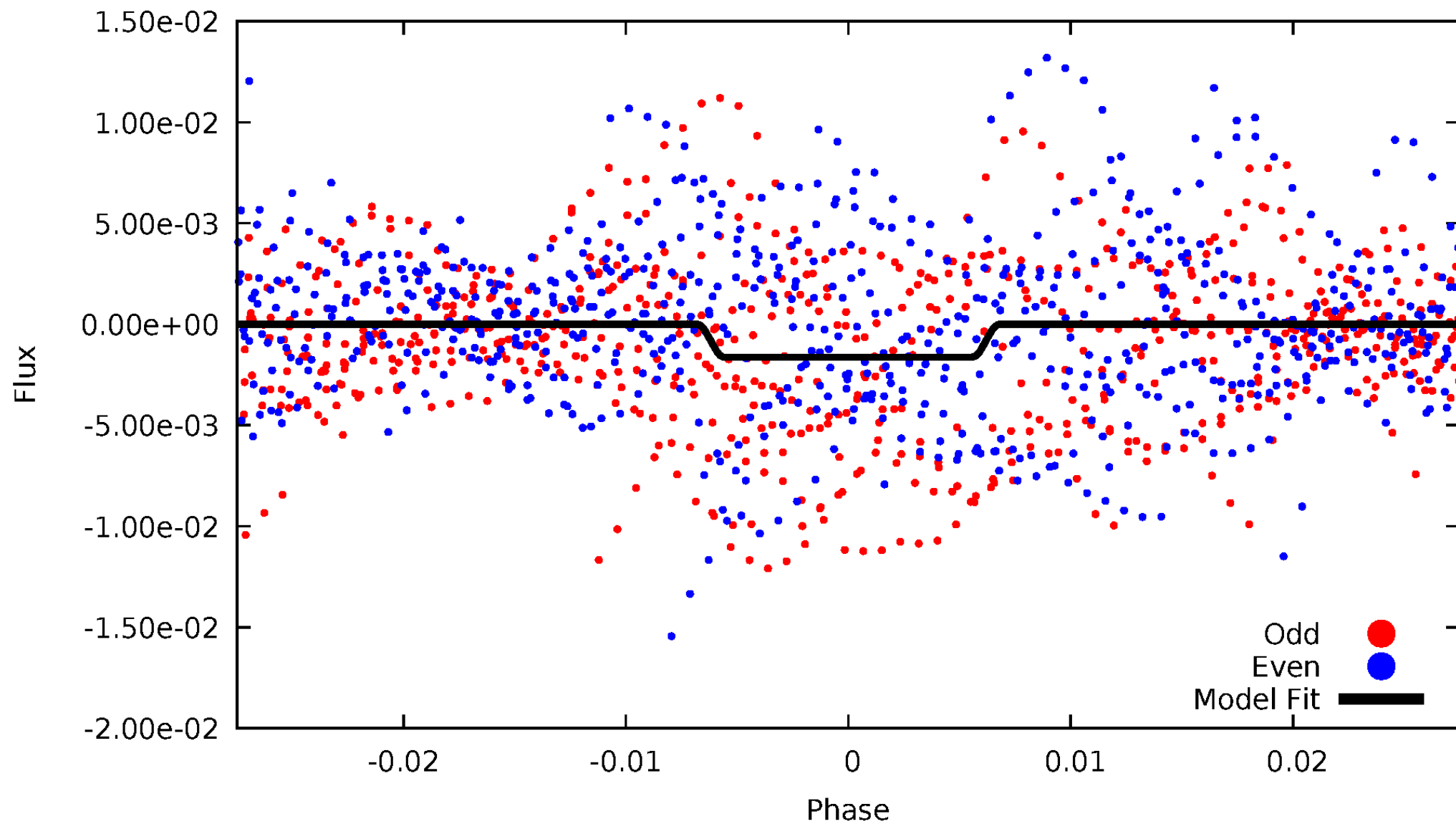
DV Odd/Even

TCE 008264075-04



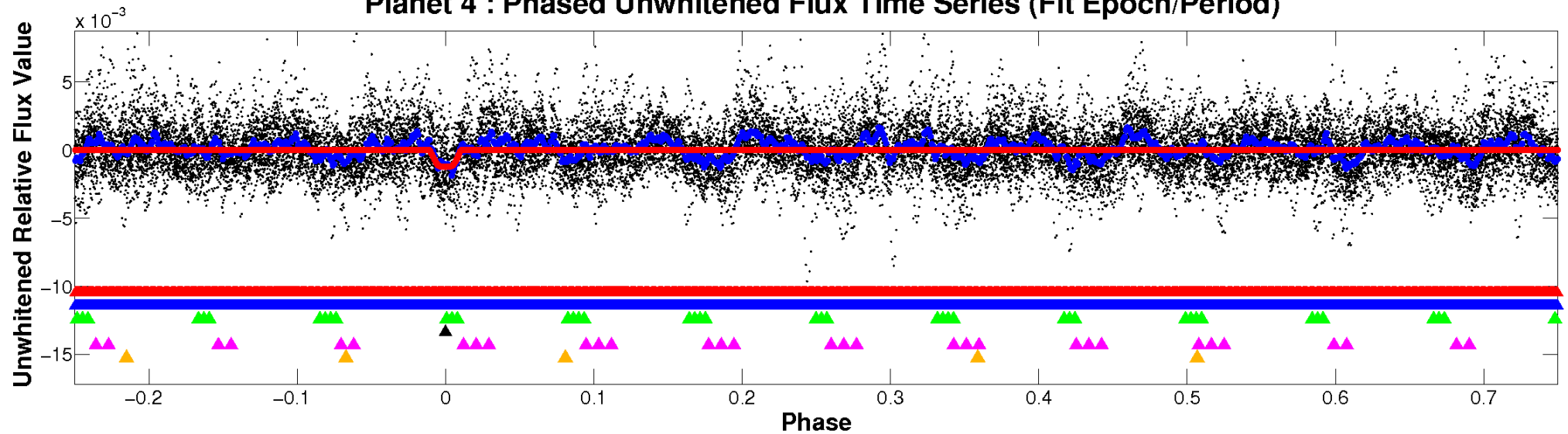
ALT Odd/Even

TCE 008264075-04

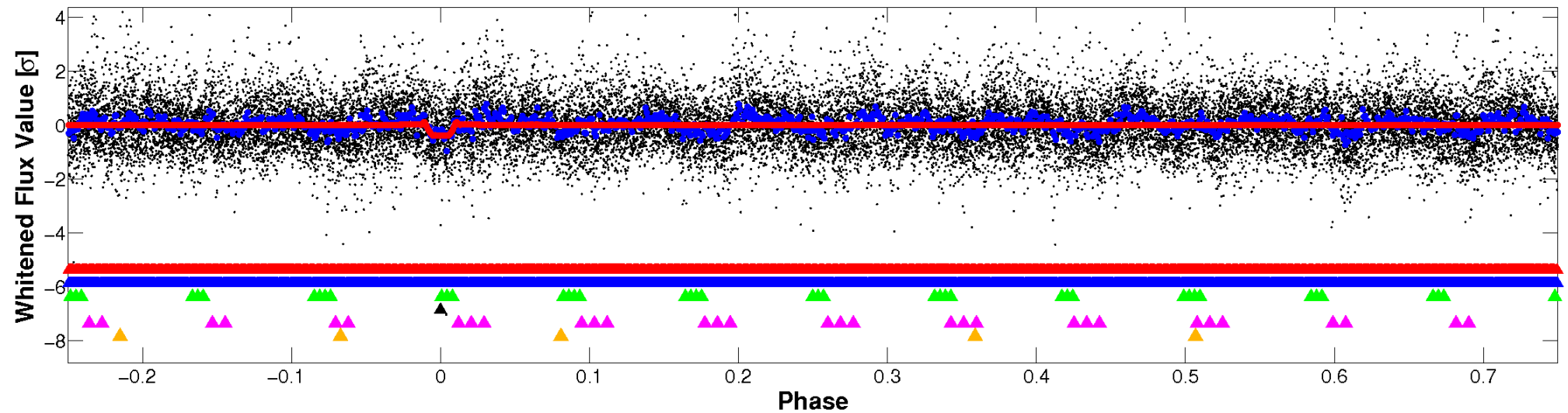


Non-Whitened Vs. Whitened Light Curve

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

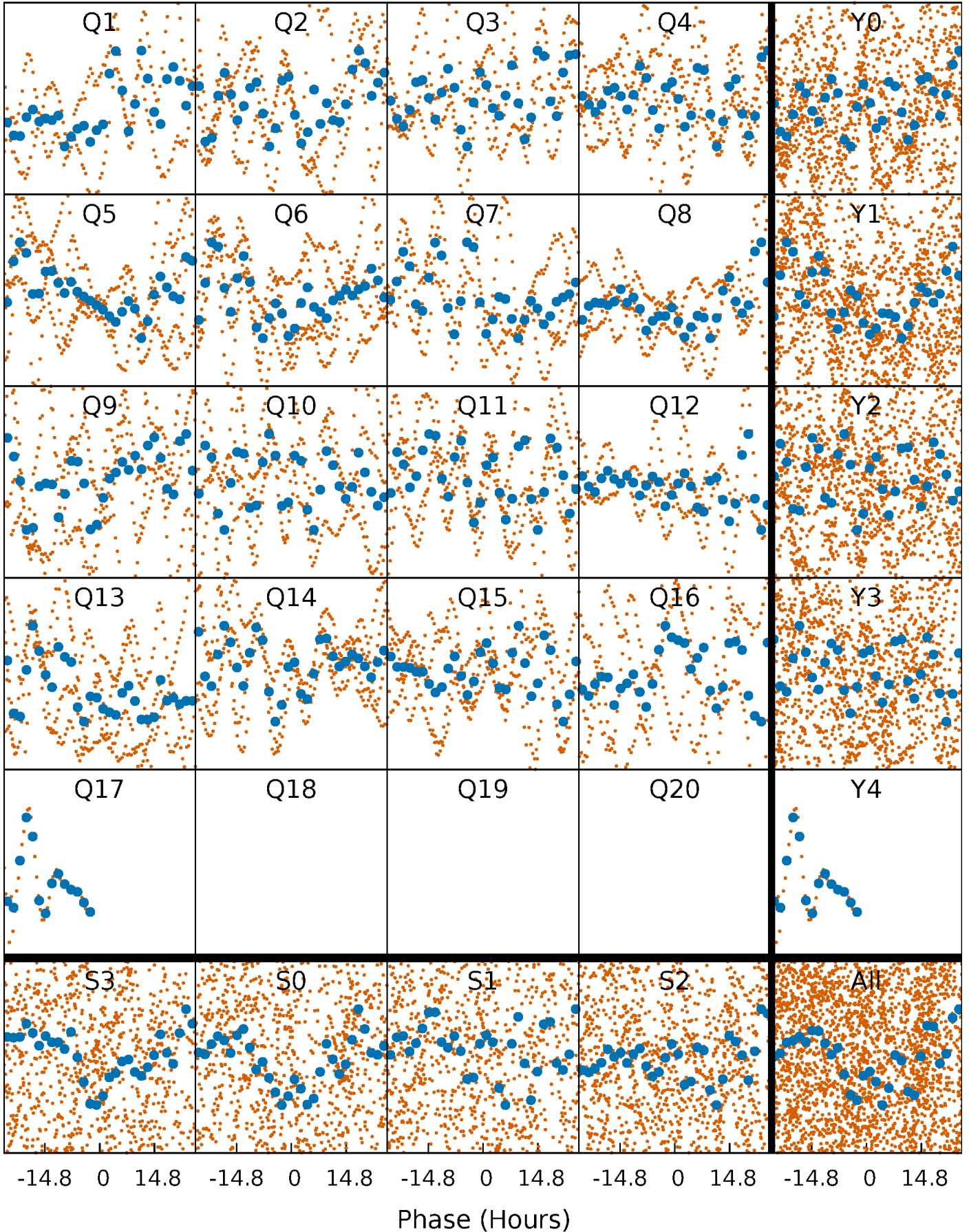


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



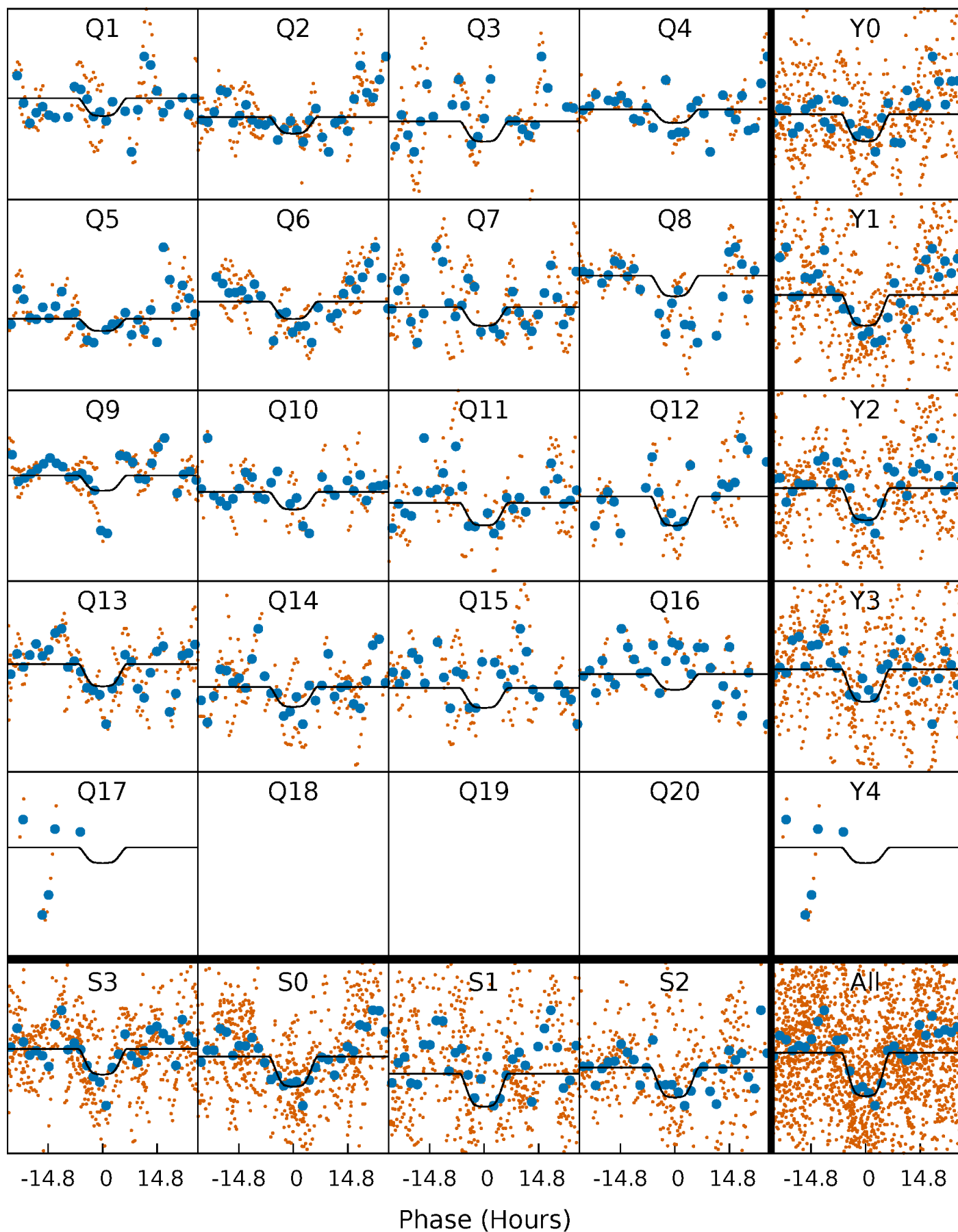
PDC Quarter-Phased Transit Curves

TCE 008264075-04 P= 24.493160 Days $T_0=136.621490$ (BKJD)



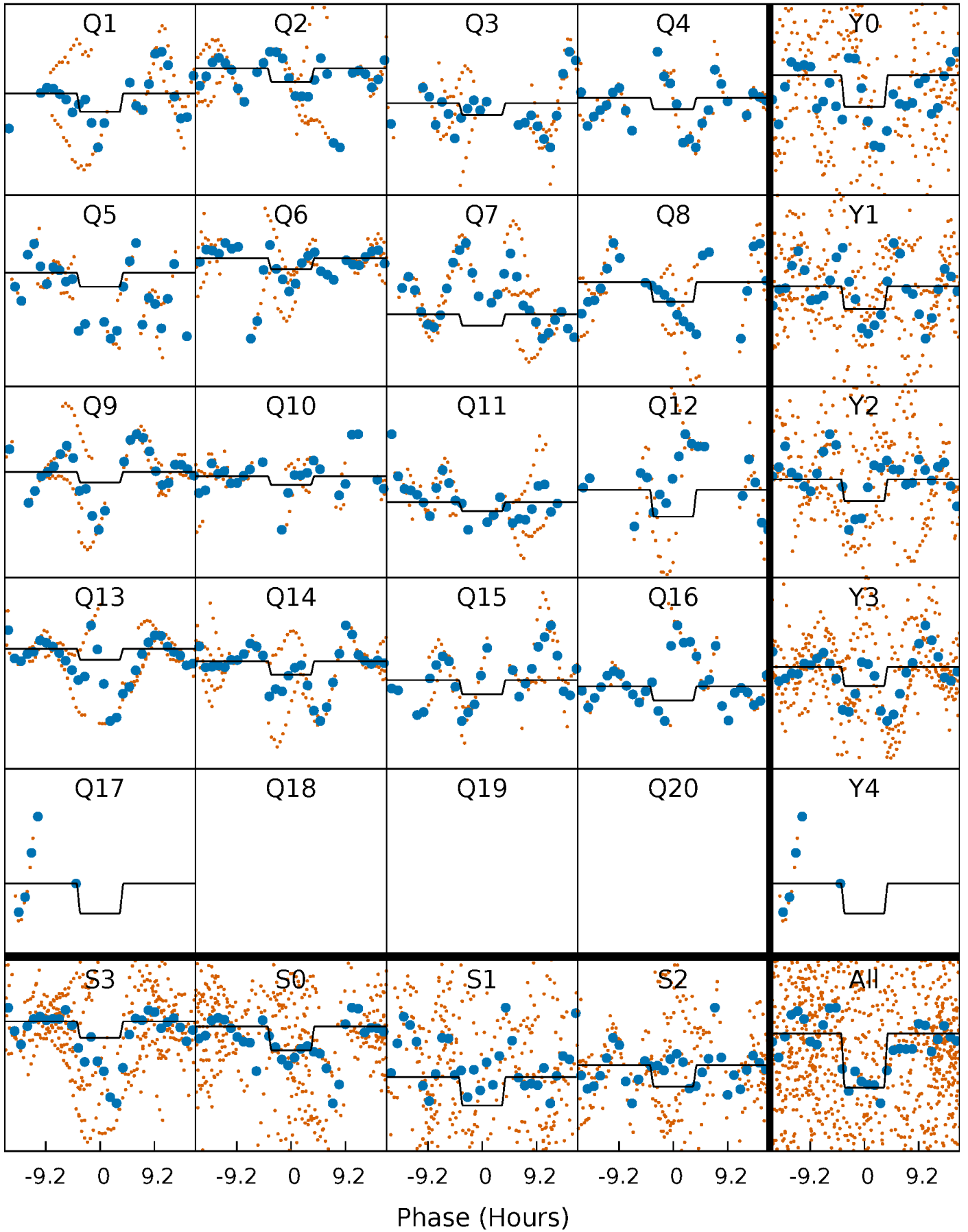
DV Quarter-Phased Transit Curves

TCE 008264075-04 $P = 24.493160$ Days $T_0 = 136.621490$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

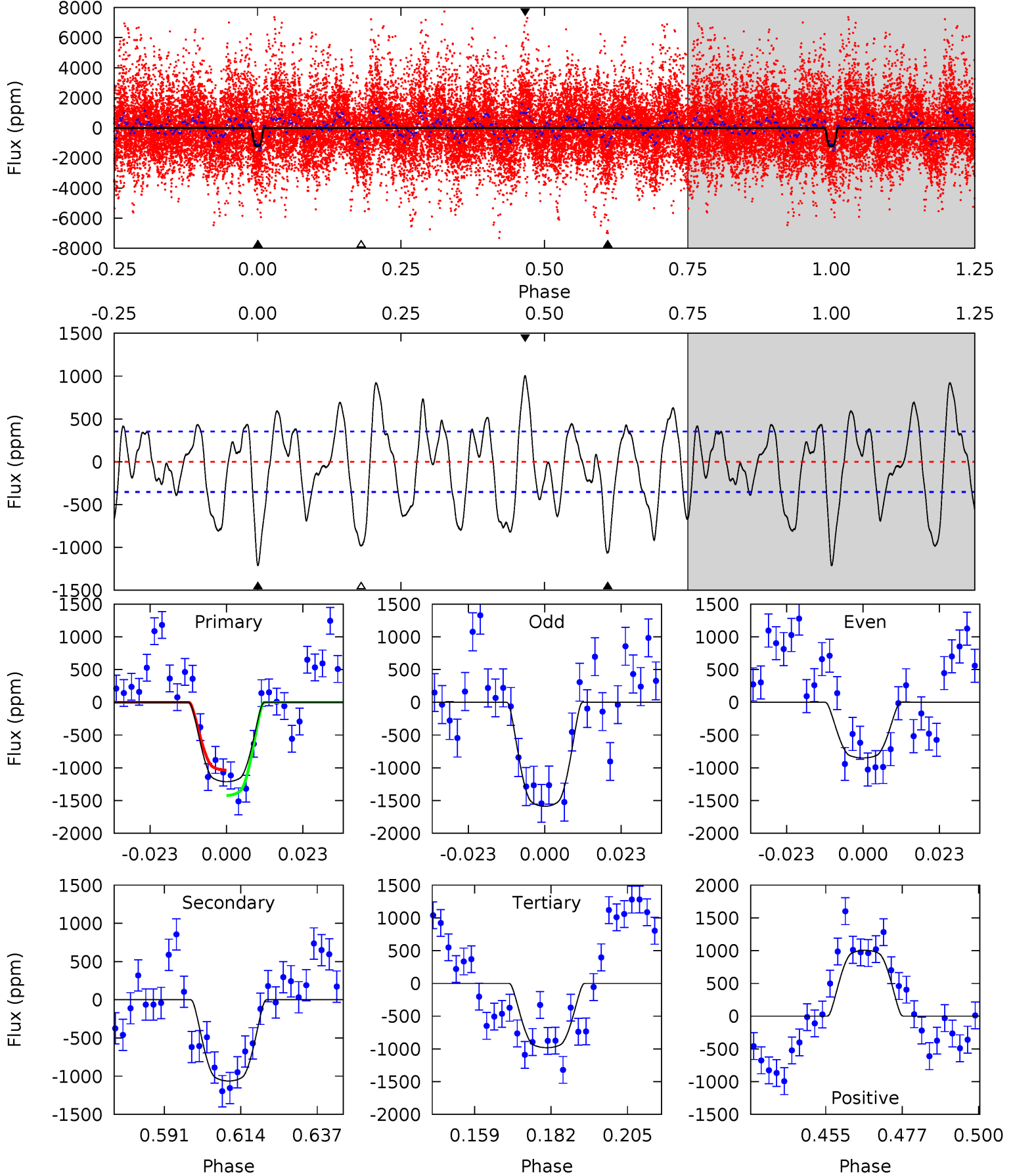
TCE 008264075-04 P= 24.490881 Days $T_0=136.682175$ (BKJD)



DV Model-Shift Uniqueness Test

008264075-04, P = 24.493160 Days, E = 112.128330 Days

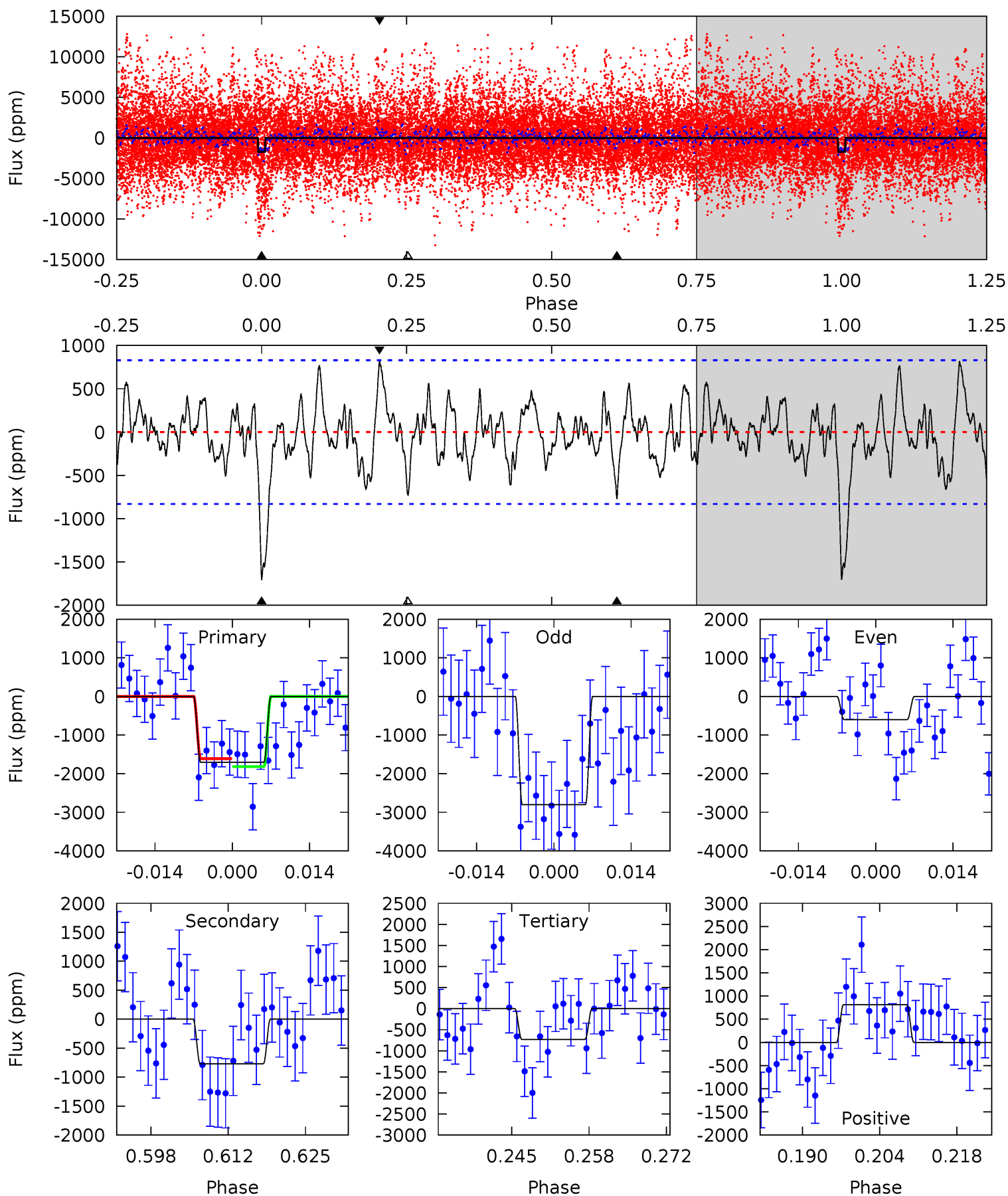
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.7	14.7	13.5	13.9	4.87	2.28	5.96	3.18	2.86	1.12	0.80	5.10	0.75	0.45	2.66



Alt Model-Shift Uniqueness Test

008264075-04, P = 24.490881 Days, E = 112.191294 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.2	4.60	4.36	4.87	4.97	2.47	1.60	5.84	5.33	0.24	-0.27	6.62	0.49	0.32	0.61



Stellar Parameters For KIC 008264075

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7872^{+216}_{-351}	$4.049^{+0.150}_{-0.150}$	$0.070^{+0.200}_{-0.350}$	$2.124^{+0.494}_{-0.494}$	$1.841^{+0.147}_{-0.319}$	$0.271^{+0.216}_{-0.111}$
	+3%/-4%	+4%/-4%	+286%/-500%	+23%/-23%	+8%/-17%	+80%/-41%
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 008264075-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1063 ± 73	$9.11^{+1.35}_{-1.31}$	1570^{+99}_{-110}	6992^{+414}_{-382}	283^{+94}_{-72}
Alt.	-768 ± 167	$9.36^{+1.30}_{-1.42}$	1569^{+101}_{-109}	6330^{+499}_{-463}	193^{+91}_{-57}

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

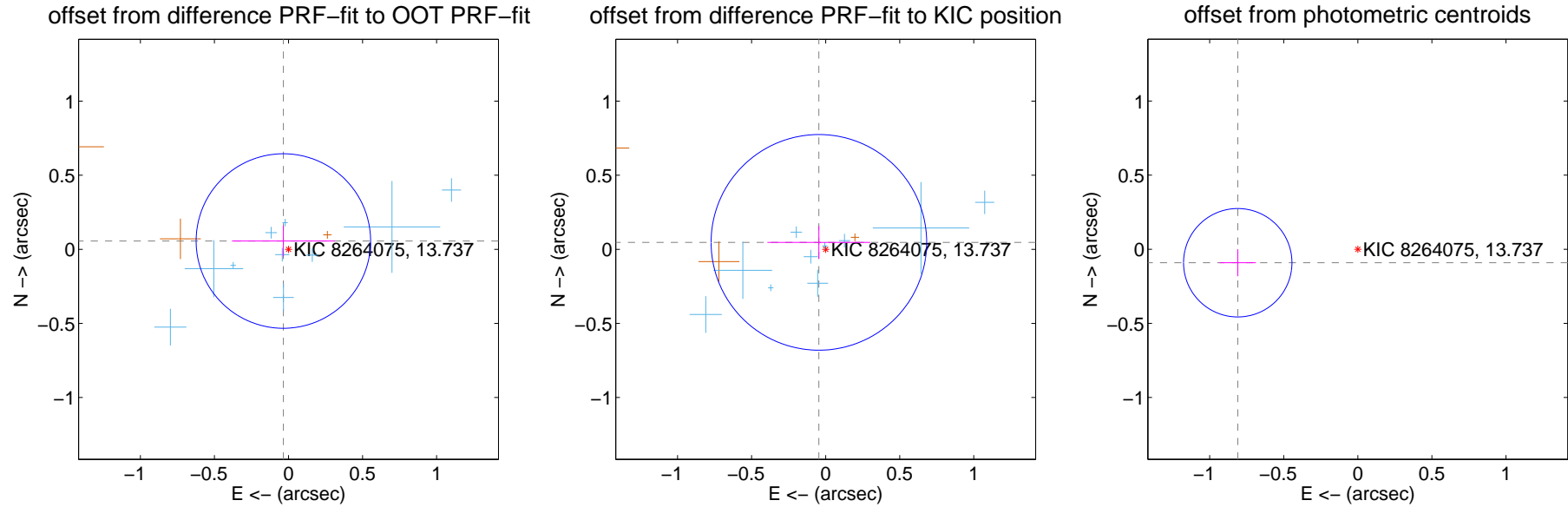
DV Centroid Data

Supplemental centroid analysis for 008264075-04. Kepler magnitude: 13.74. Transit SNR 7.23

There are 11 quarters with good PRF difference image offsets

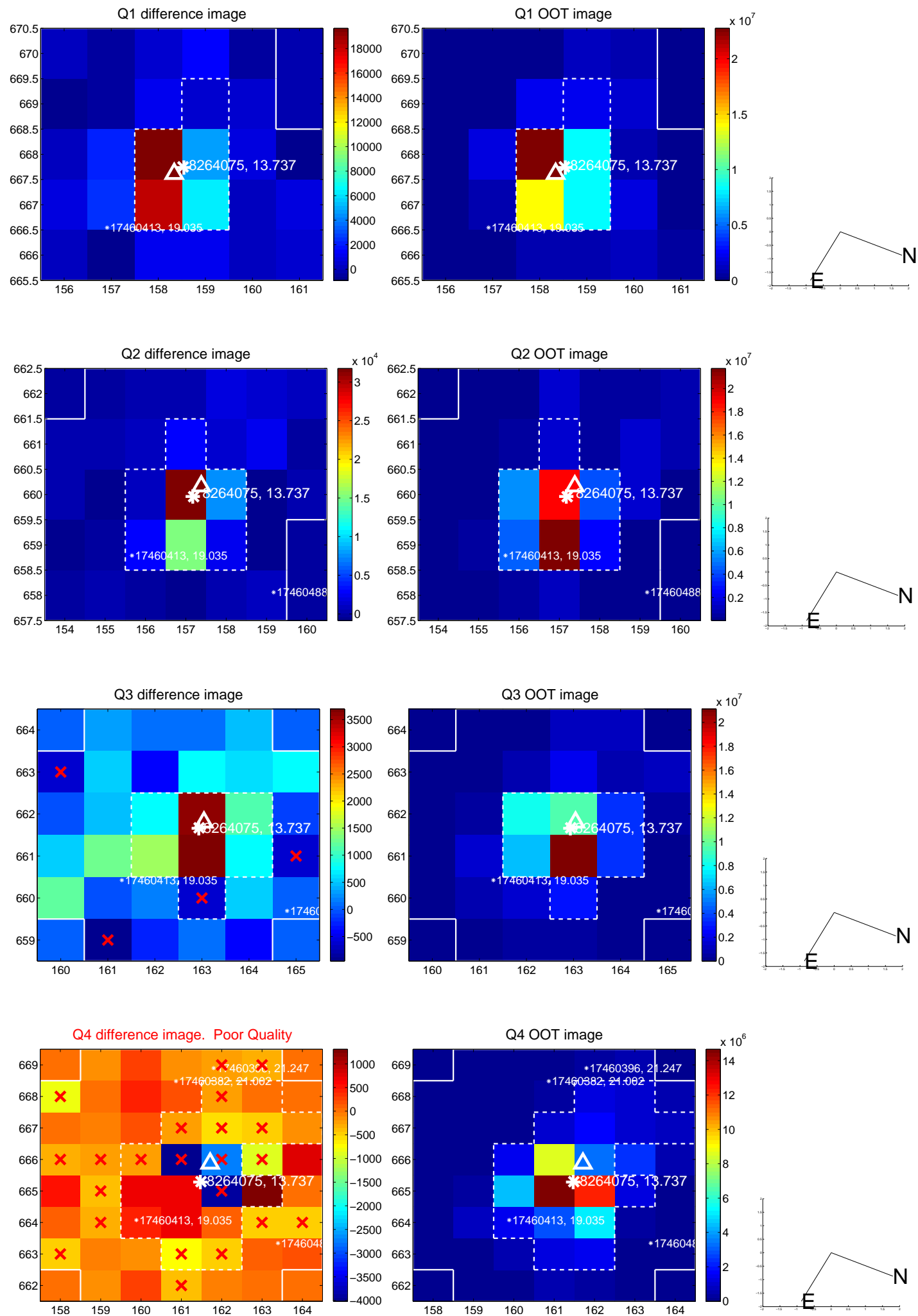
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.066 ± 0.196	0.34	0.035 ± 0.347	0.056 ± 0.104
PRF-fit source offset from KIC position	0.065 ± 0.243	0.27	0.046 ± 0.347	0.047 ± 0.111
photometric centroid source offset	0.82 ± 0.12	6.69	0.81 ± 0.12	-0.09 ± 0.09

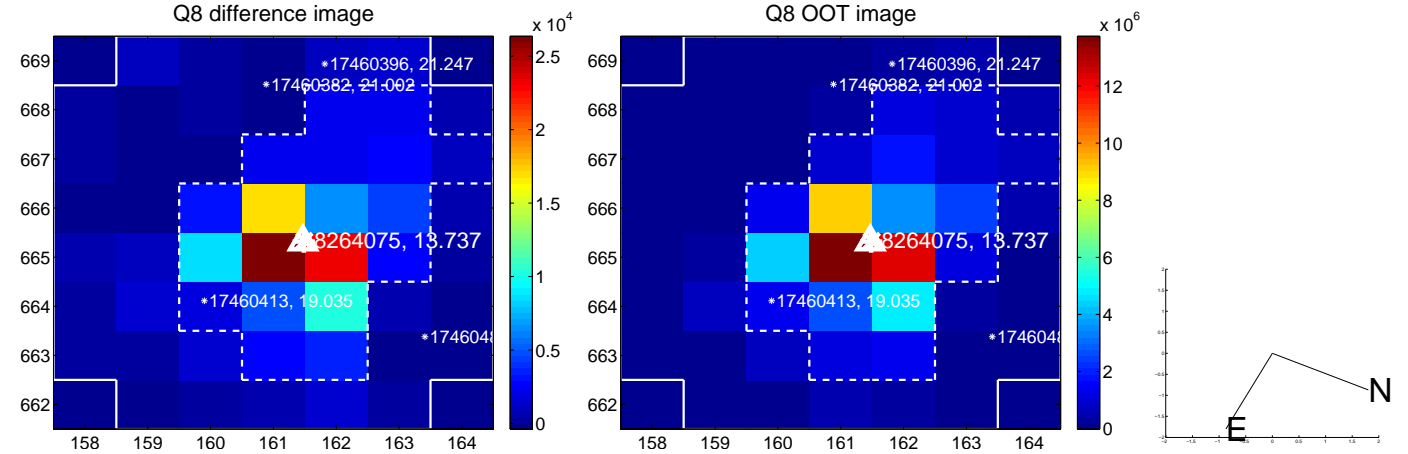
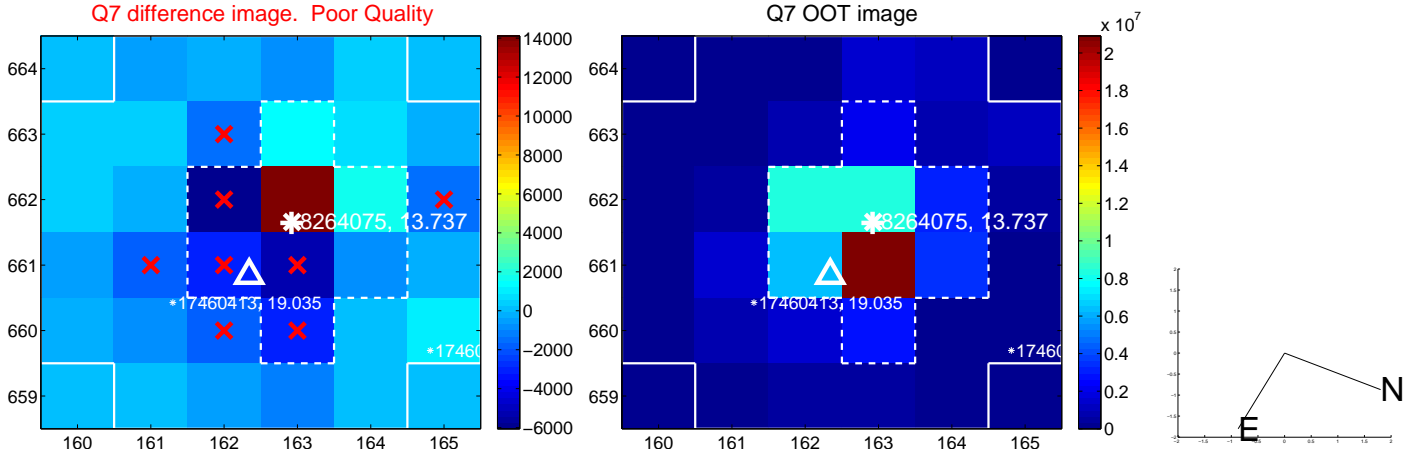
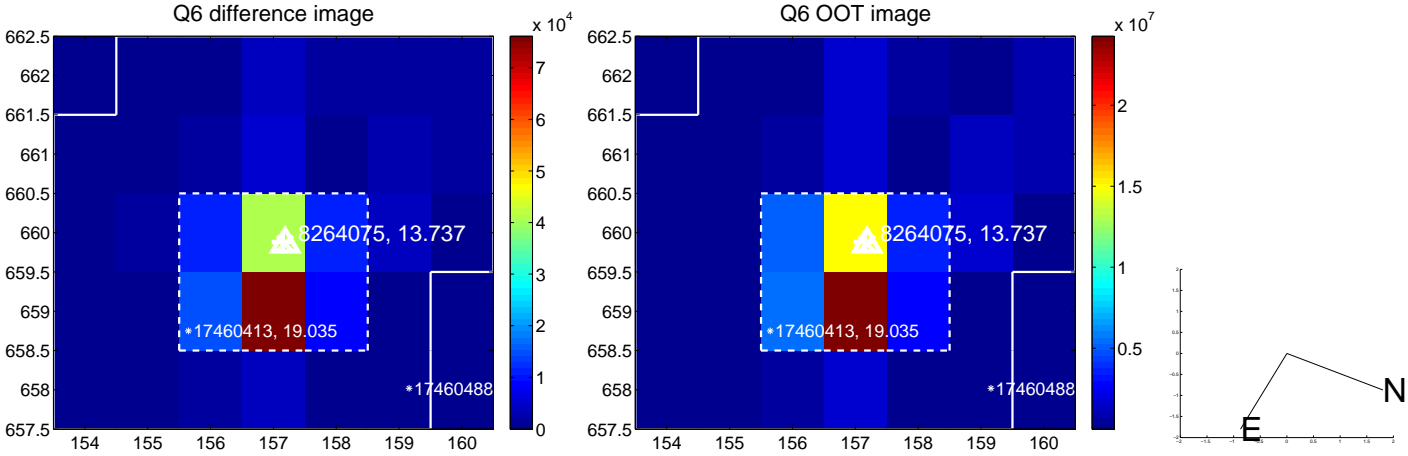
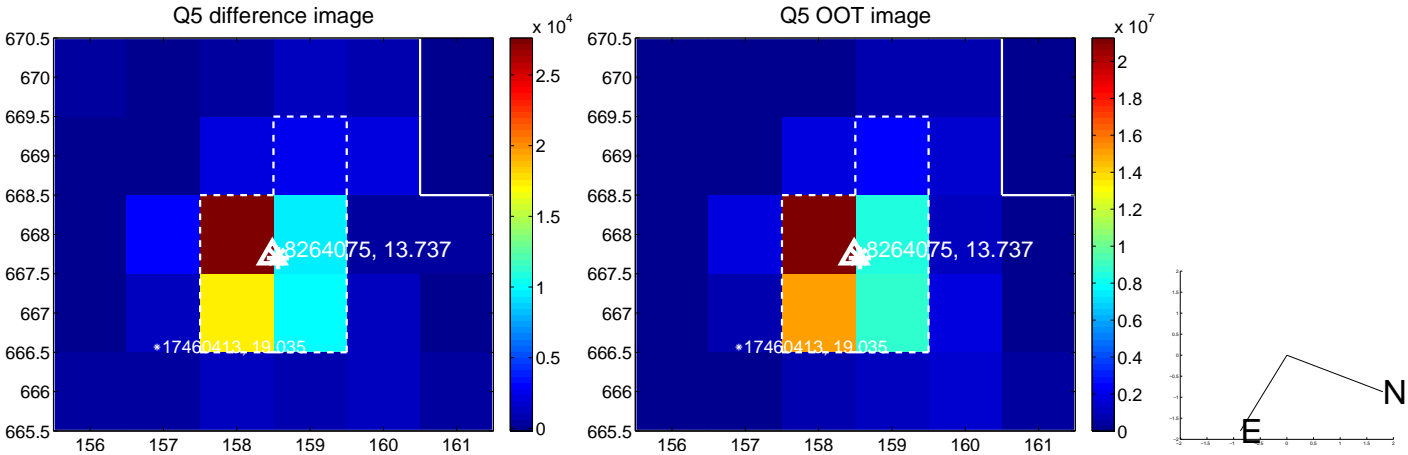


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

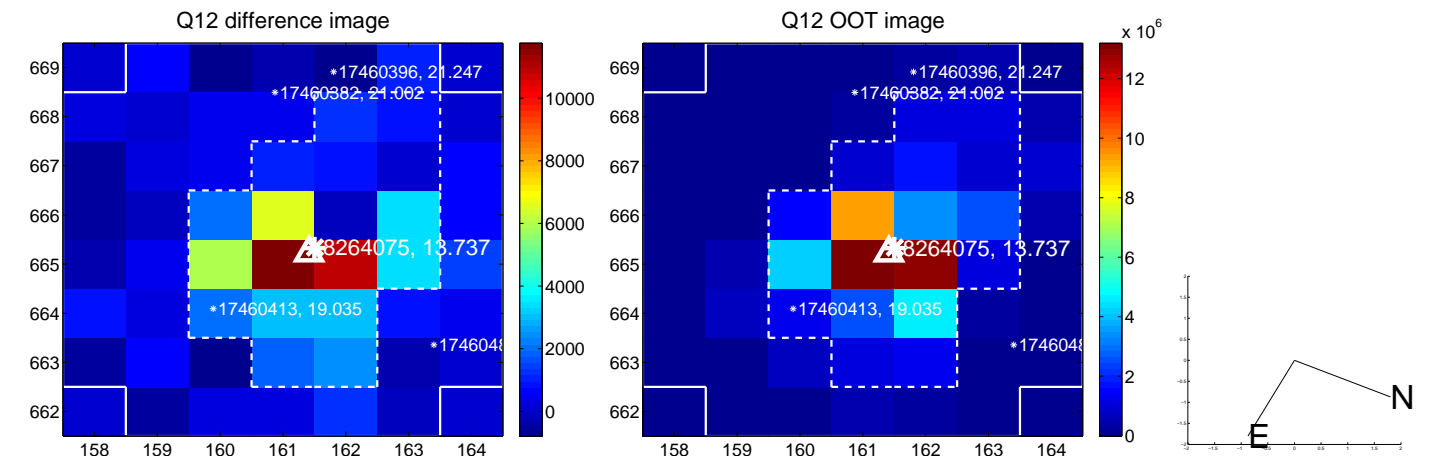
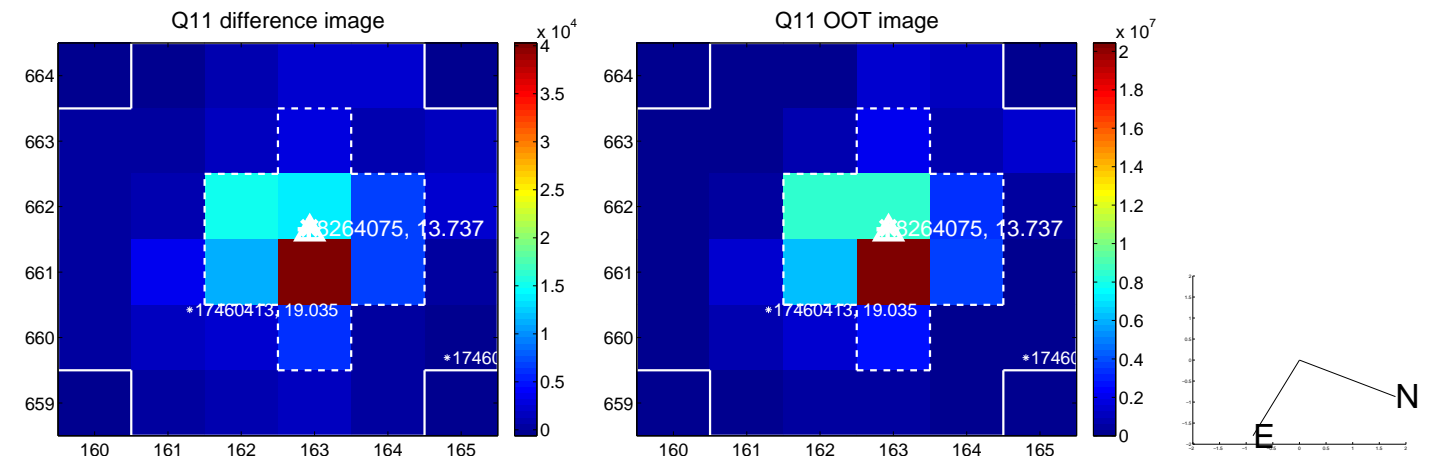
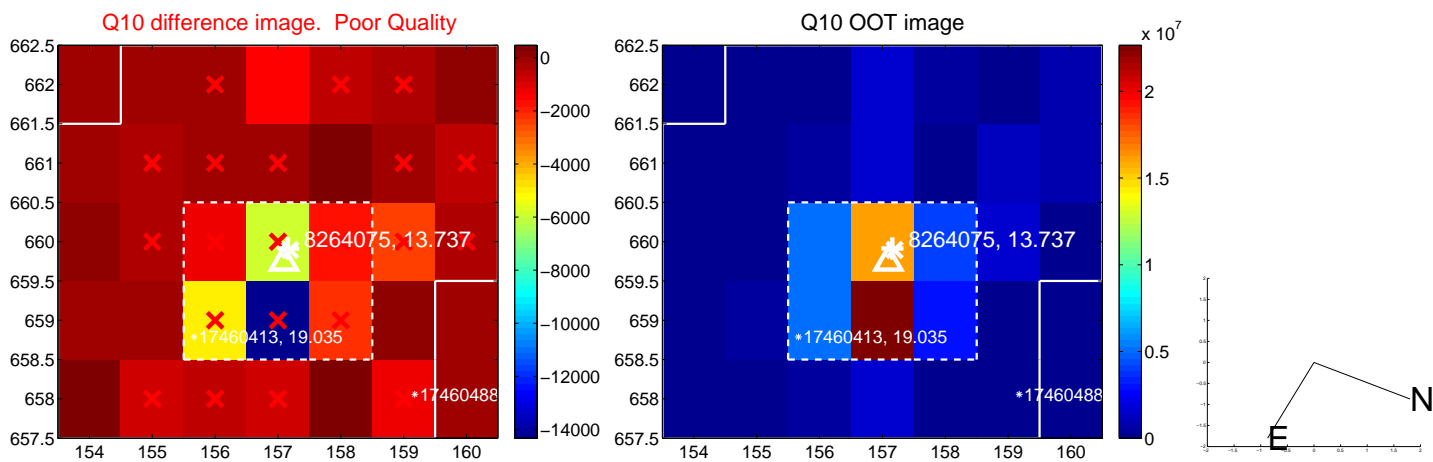
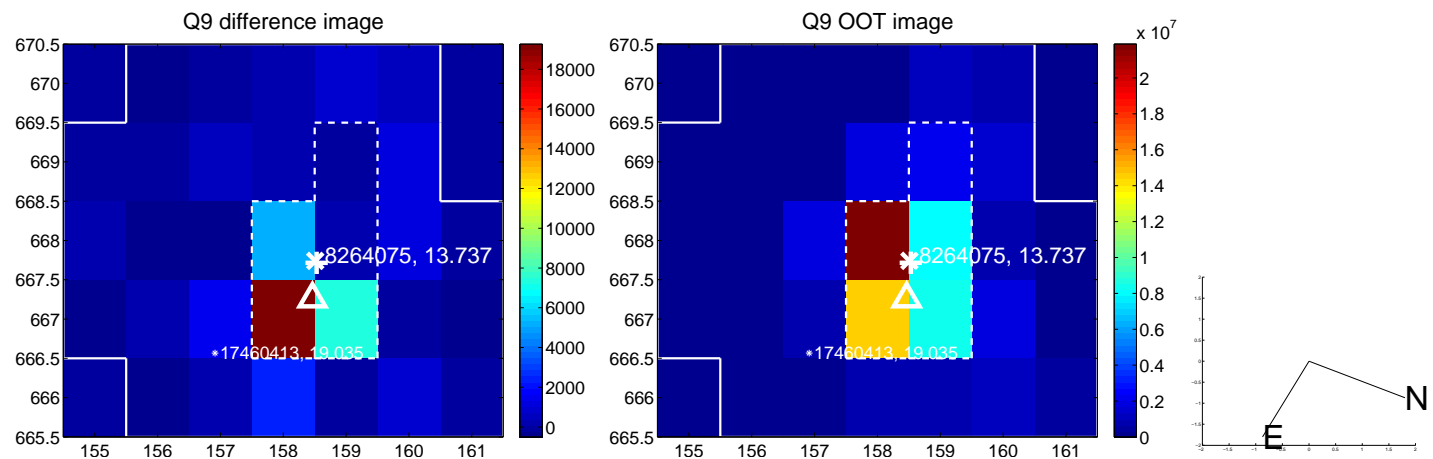
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



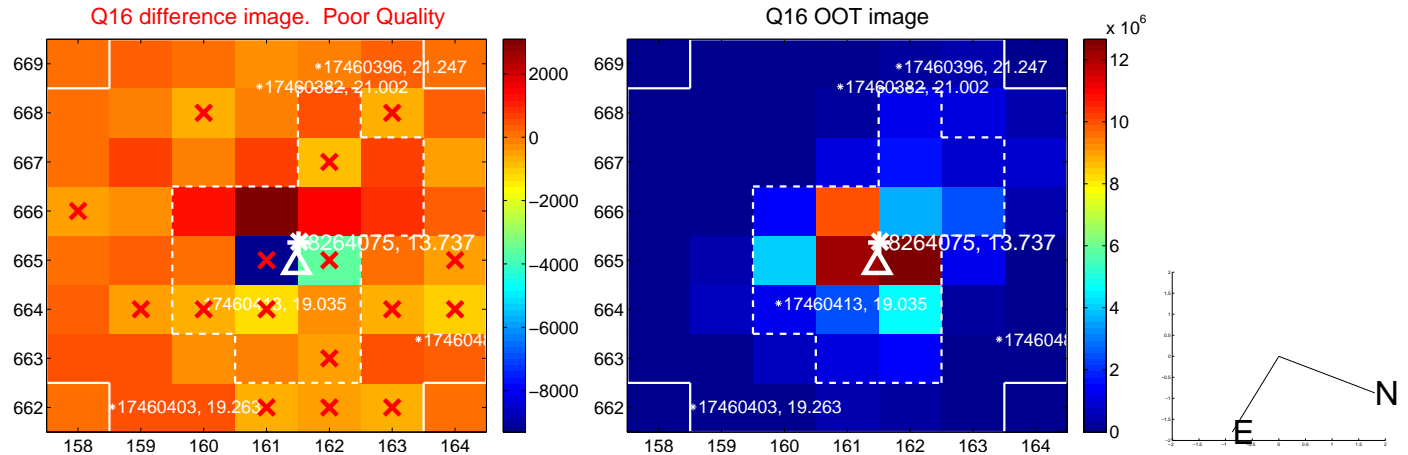
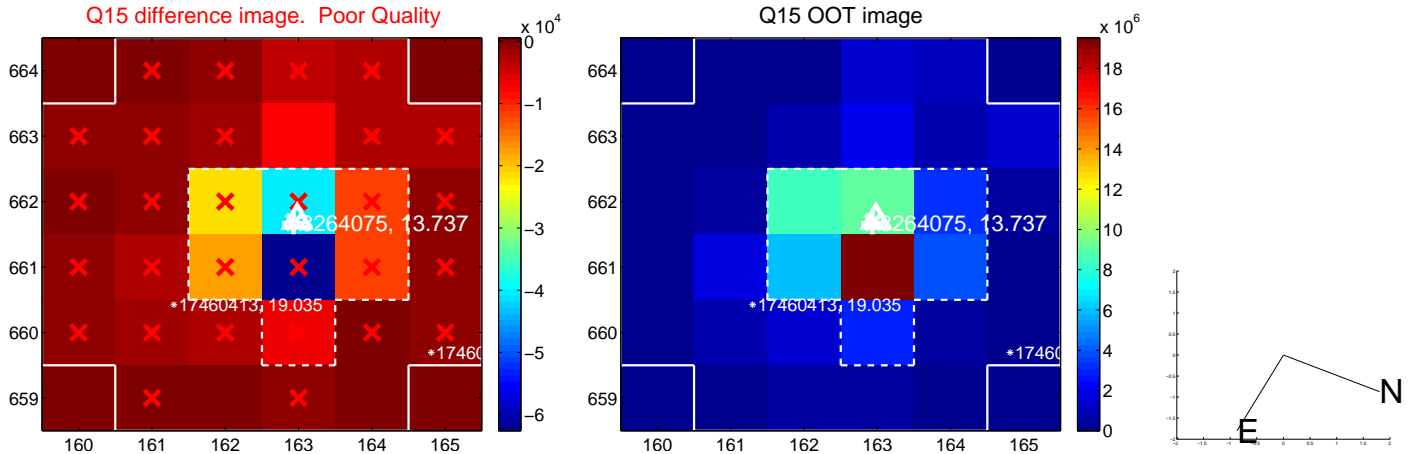
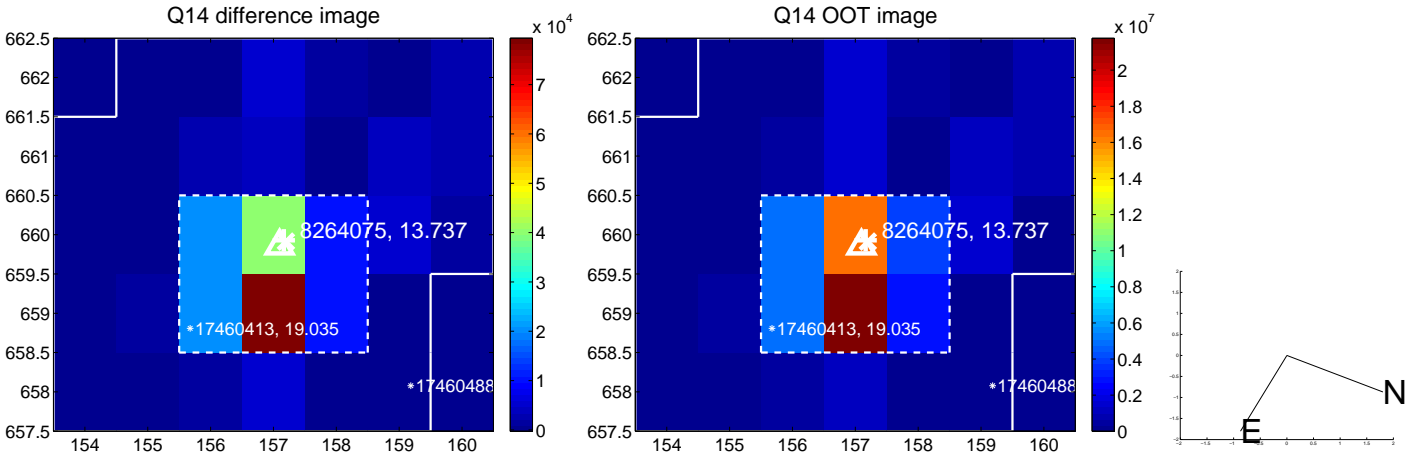
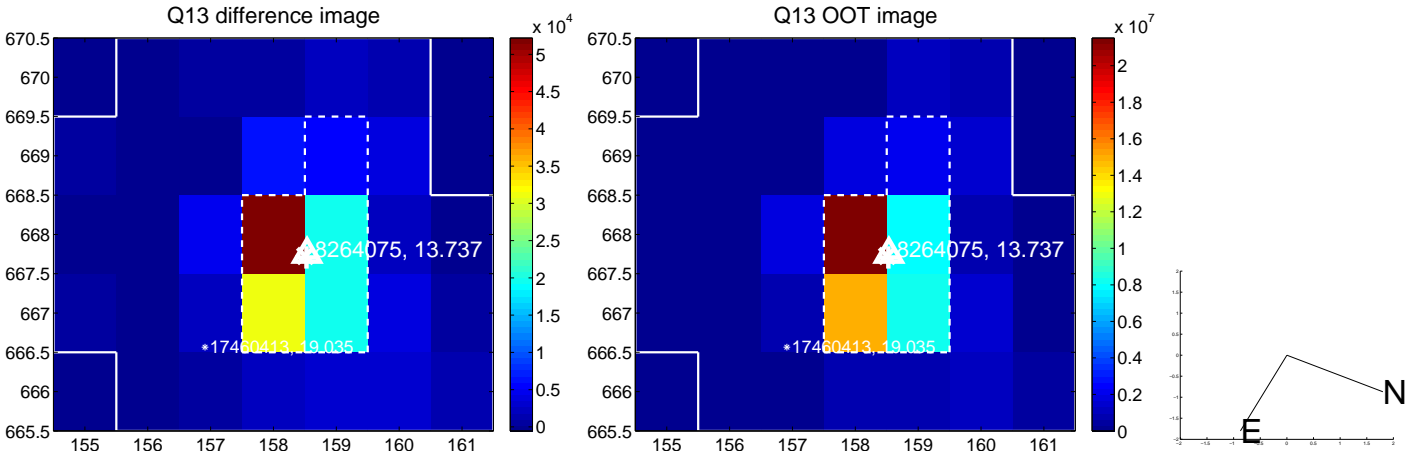
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



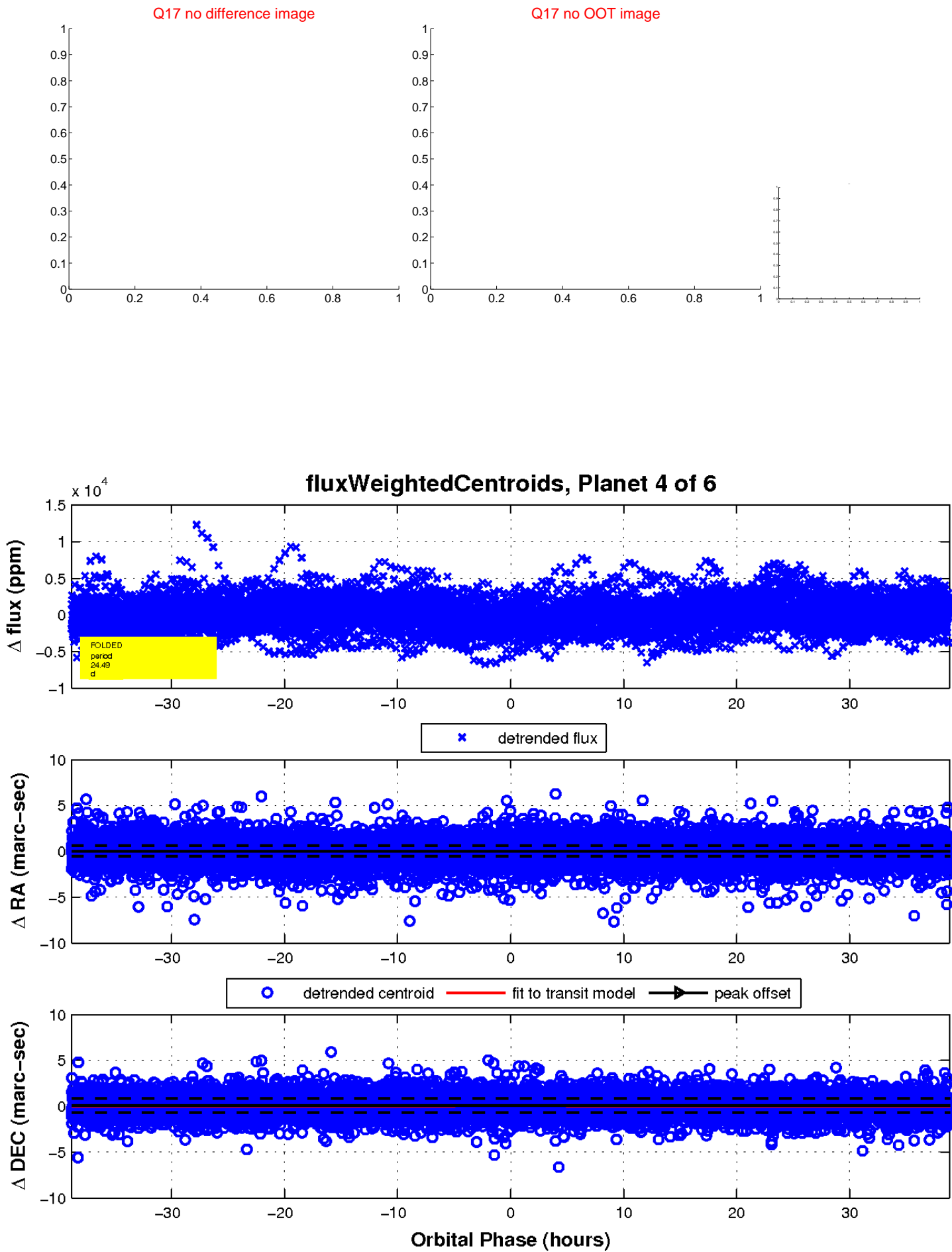
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

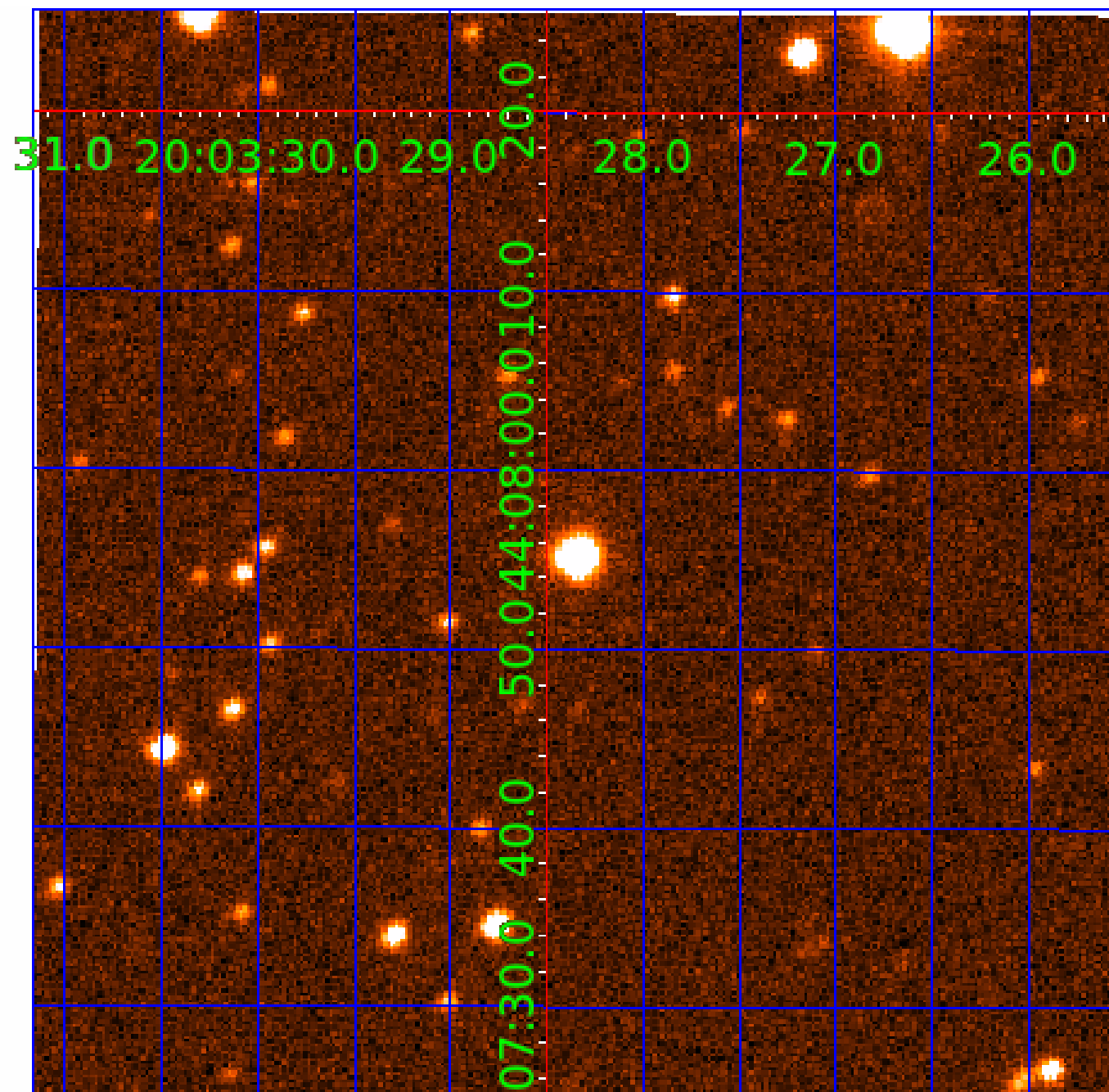


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264075

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})
008264075-01	OBS	No	0.665089	132.091437	42.1	1.837	10.3	4.1	2.12	7872	1.59	46433.47
008264075-02	OBS	No	0.646726	131.618387	83.4	1.196	8.1	5.9	2.12	7872	2.26	48199.67
008264075-03	OBS	No	34.691226	138.911002	1154.1	16.184	7.3	7.0	2.12	7872	8.32	238.26
008264075-04	OBS	No	24.493160	136.621490	1255.1	12.948	7.4	7.2	2.12	7872	9.15	378.98
008264075-05	OBS	No	46.962667	149.061556	2568.1	9.365	9.0	7.0	2.12	7872	19.45	159.10
008264075-06	OBS	No	328.845738	138.601439	456.2	3.500	8.2	-1.0	2.12	7872	4.60	11.88

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264075-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
008264075-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—HALO_GHOST
008264075-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

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

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

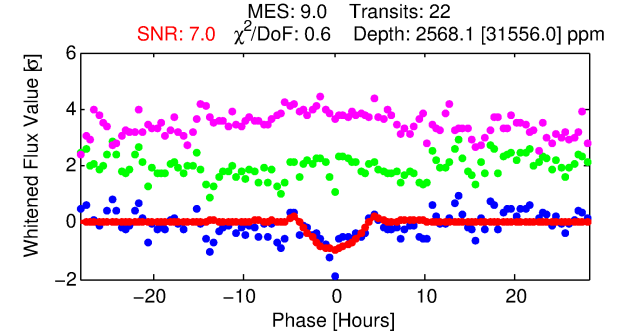
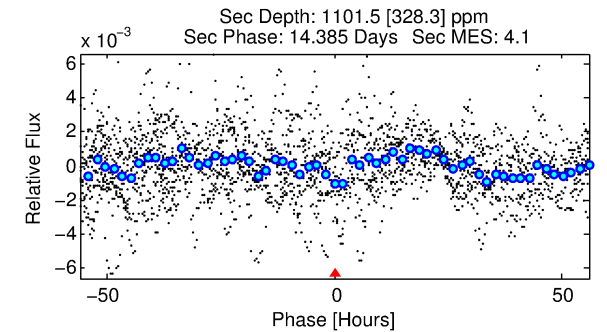
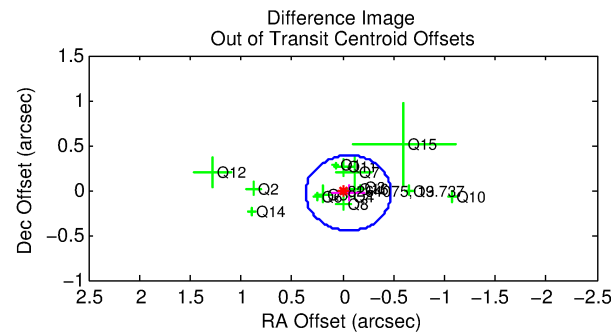
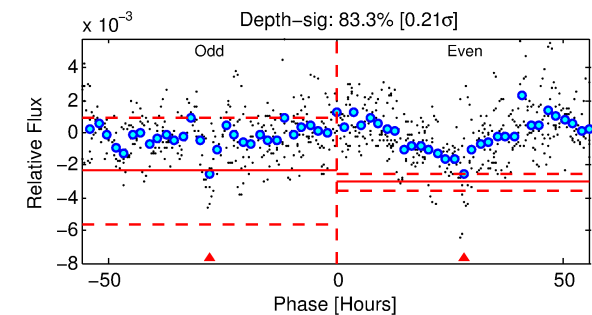
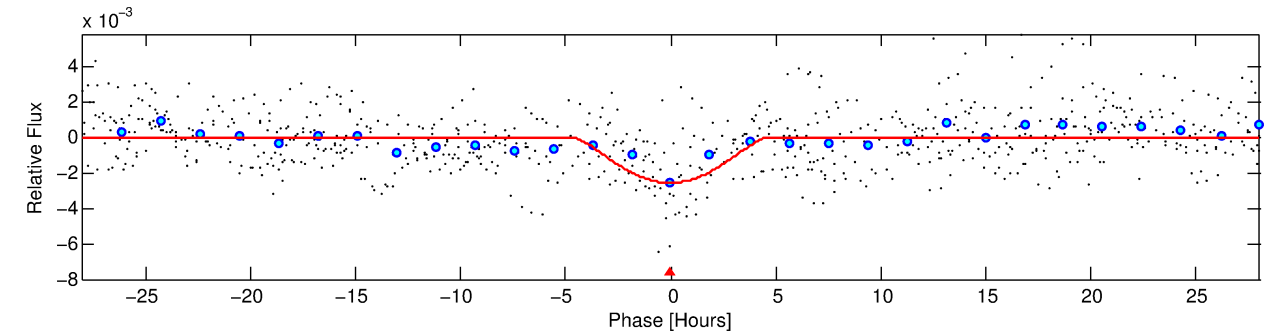
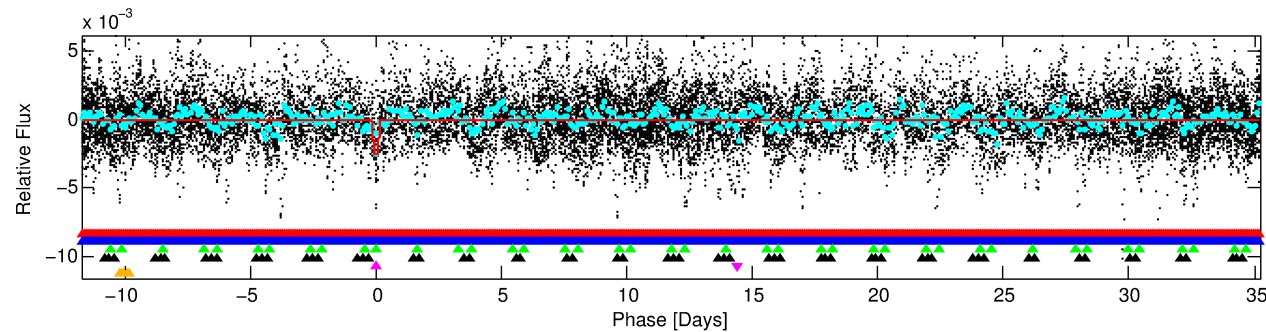
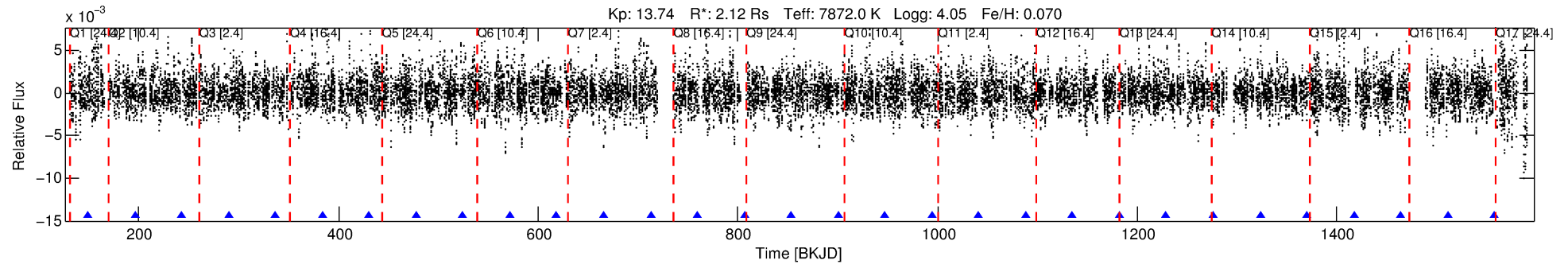
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264075-05

No Significant Match Found

DV One-Page Summary

KIC: 8264075 Candidate: 5 of 6 Period: 46.963 d



DV Fit Results:

Period = 46.96267 [0.00137] d
Epoch = 149.0616 [0.0211] BKJD
Rp/R* = 0.0839 [0.1865]
a/R* = 16.06 [7.45]
b = 1.00 [0.44]
Seff = 159.10 [52.50]
Teff = 906 [75] K
Rp = 19.46 [43.47] Re
a = 0.3123 [0.0603] AU
Ag = 156.18 [696.98] [0.22 σ]
Teffp = 4950 [5516] K [0.73 σ]

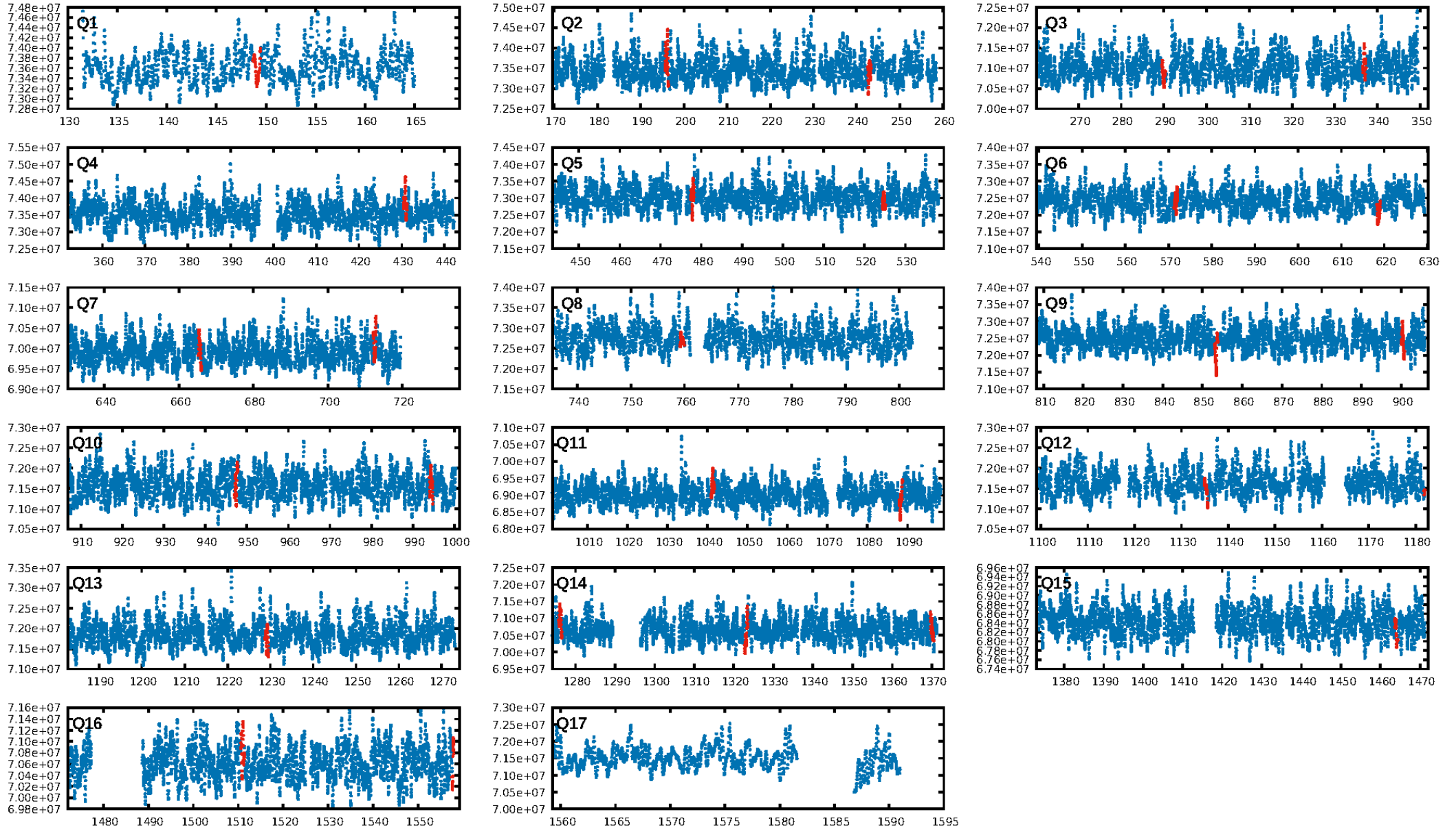
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [15.75 σ]
LongPeriod-sig: 100.0% [676.66 σ]
ModelChiSquare2-sig: 43.2%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [21/21]
GhostDiagnostic-chr: -0.02314
Centroid-sig: 2.2%
Centroid-so: 0.896 arcsec [8.47 σ]
OotOffset-rm: 0.065 arcsec [0.46 σ]
KicOffset-rm: 0.028 arcsec [0.31 σ]
OotOffset-st: 4/4/4/3 [15]
KicOffset-st: 4/4/4/3 [15]
DiffImageQuality-fgm: 0.60 [9/15]
DiffImageOverlap-fno: 0.00 [0/15]

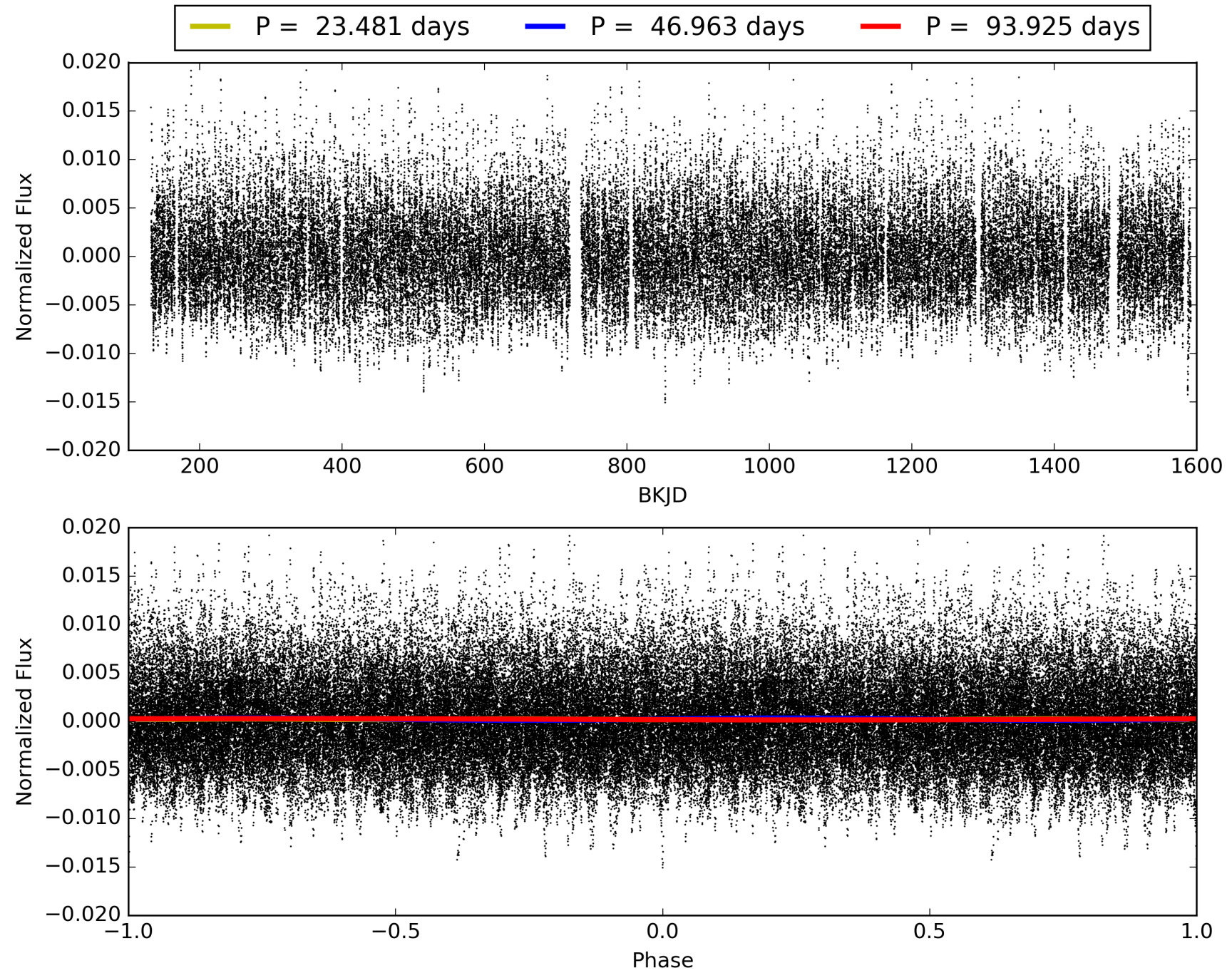
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:53:57 Z

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

TCE 008264075-05, PDC Light Curves

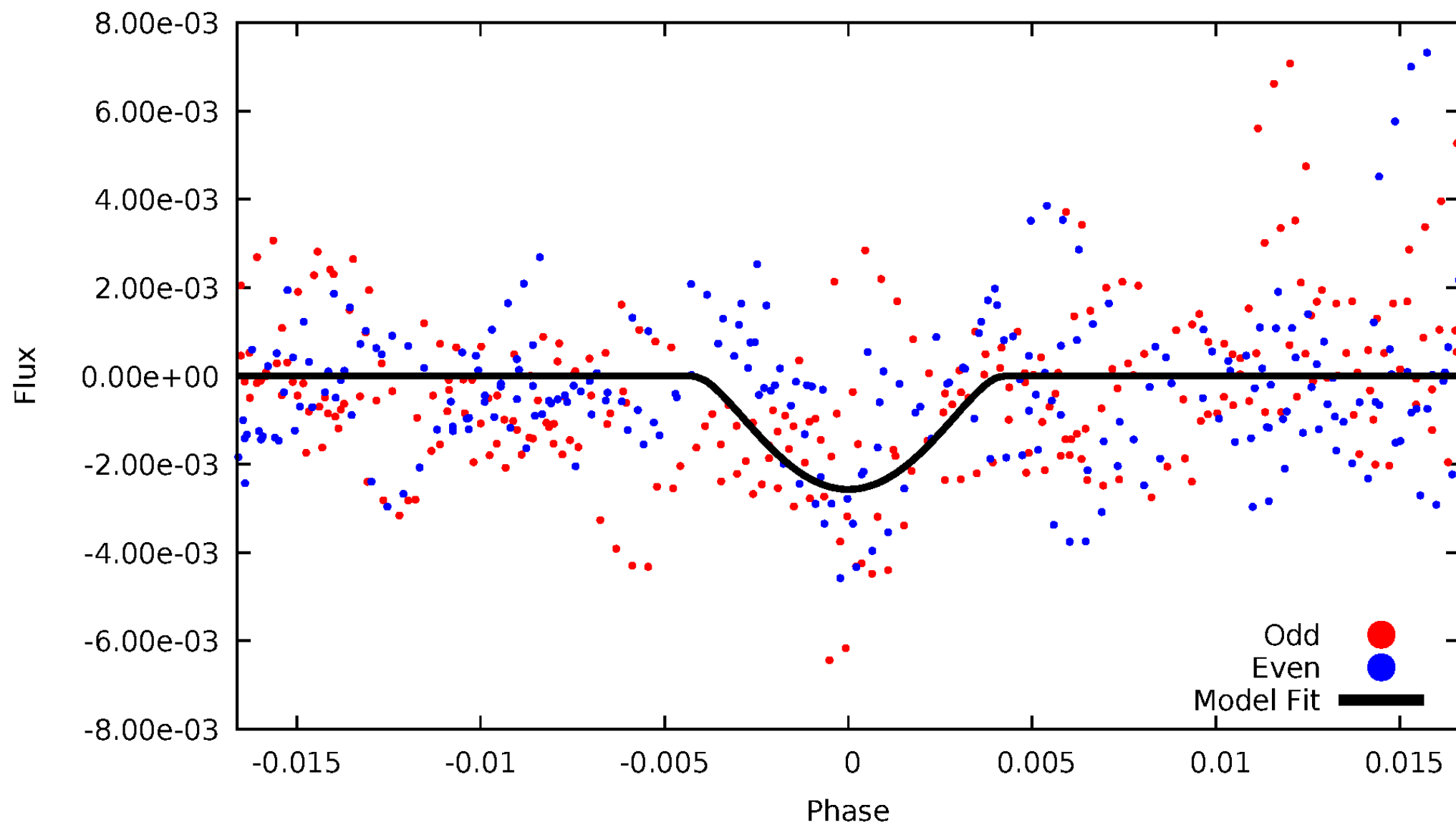


TCE 008264075-05



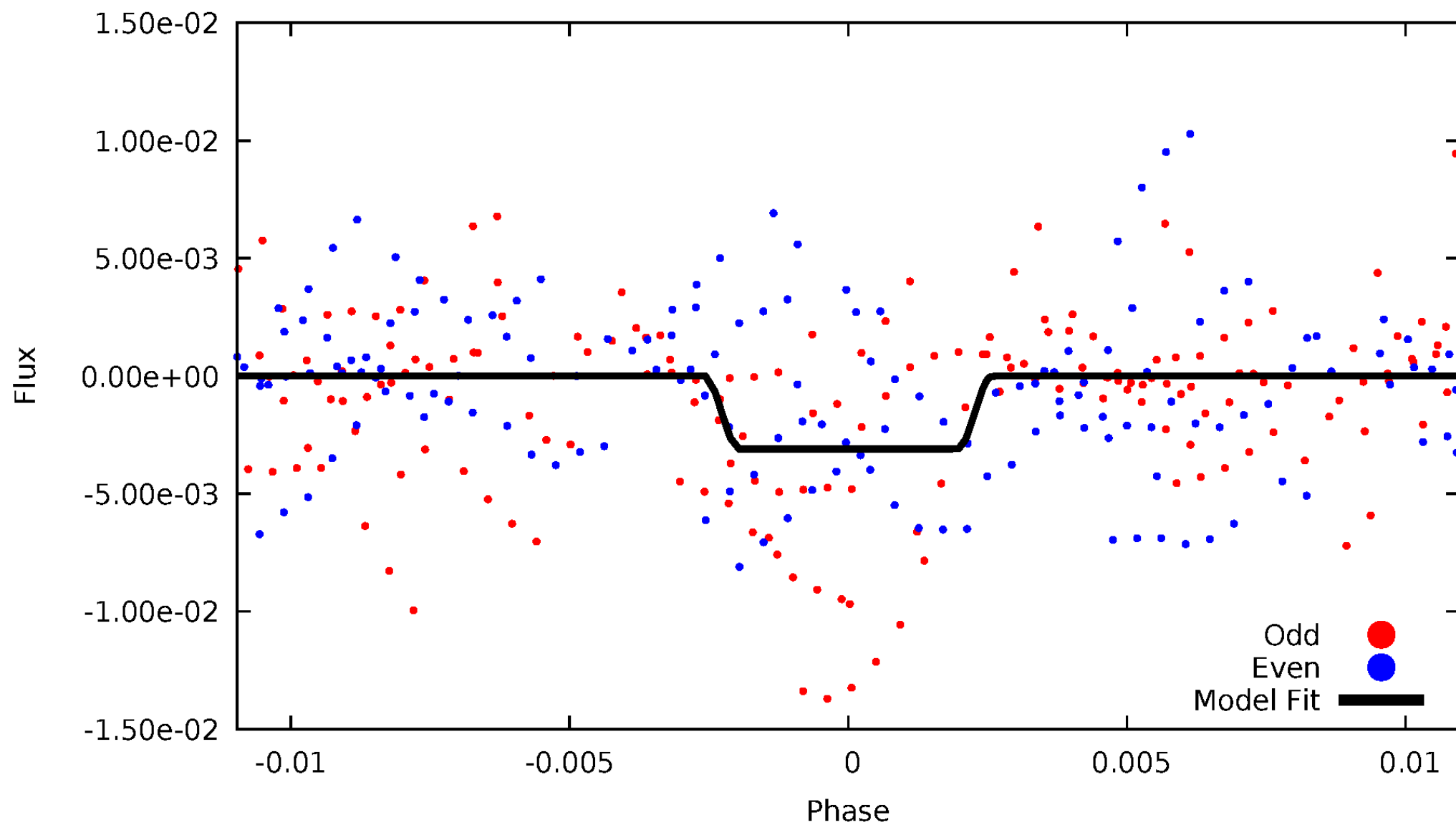
DV Odd/Even

TCE 008264075-05



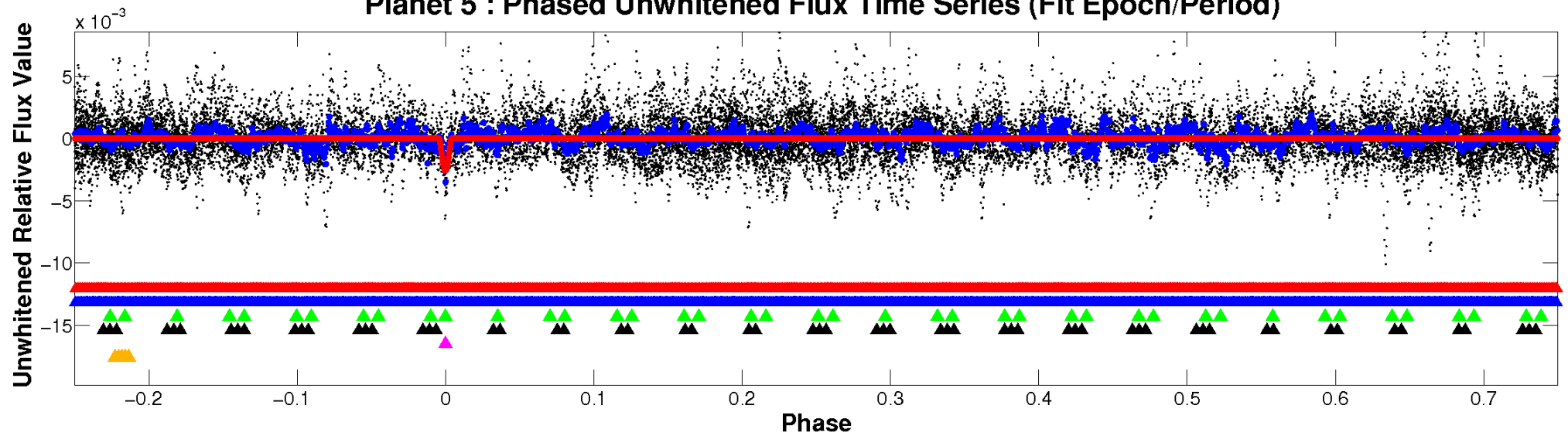
ALT Odd/Even

TCE 008264075-05

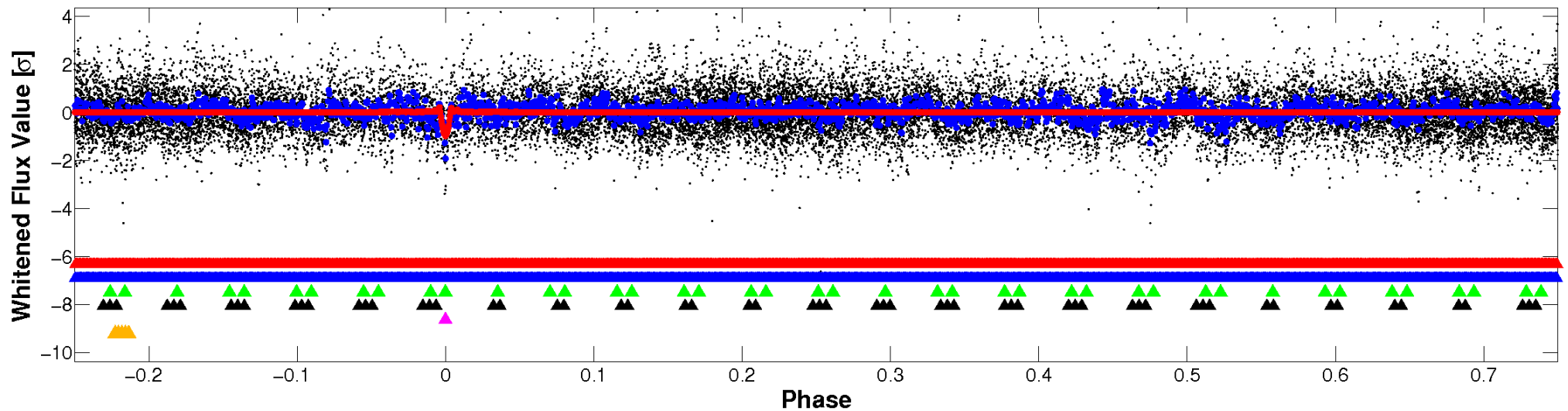


Non-Whitened Vs. Whitened Light Curve

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

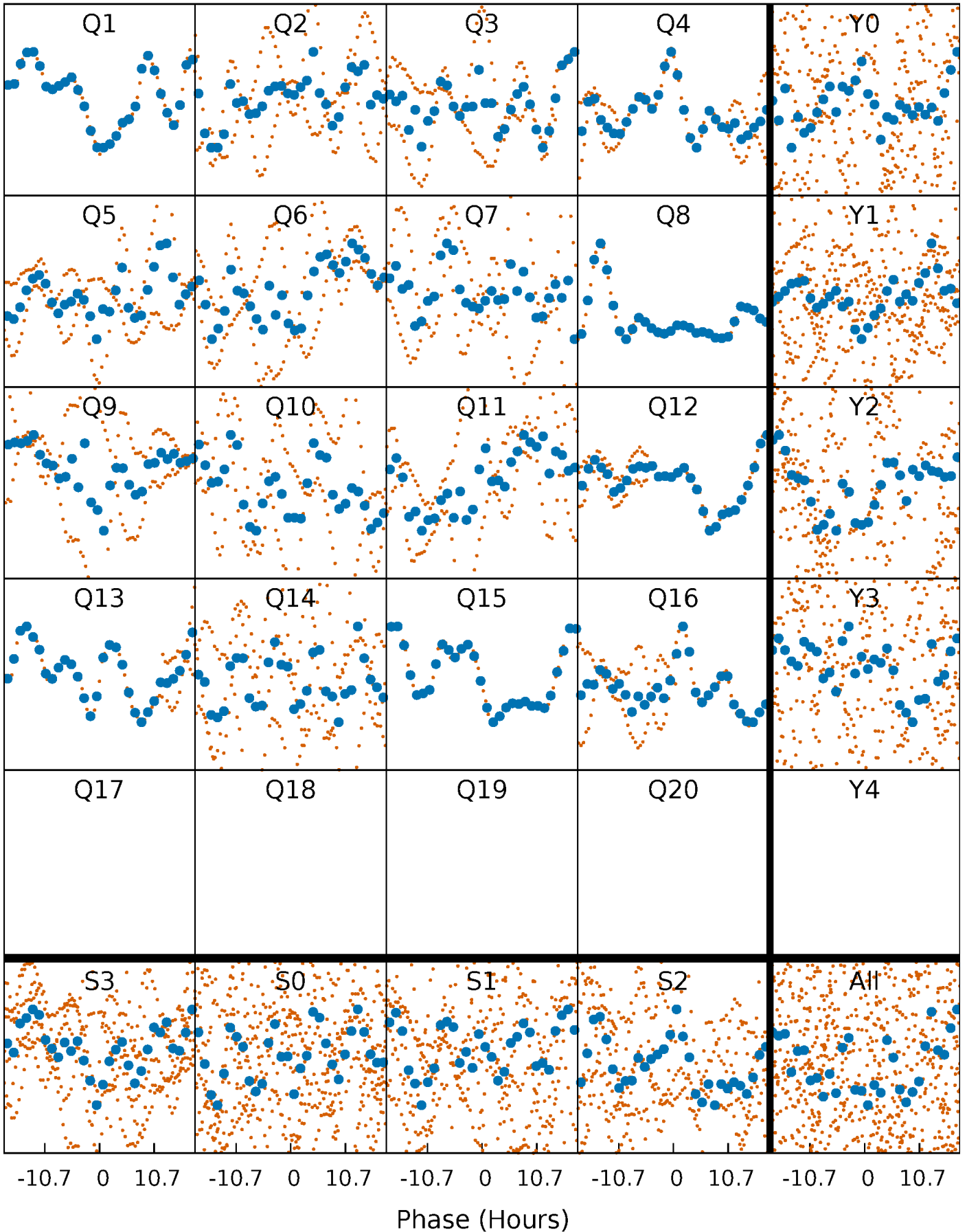


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



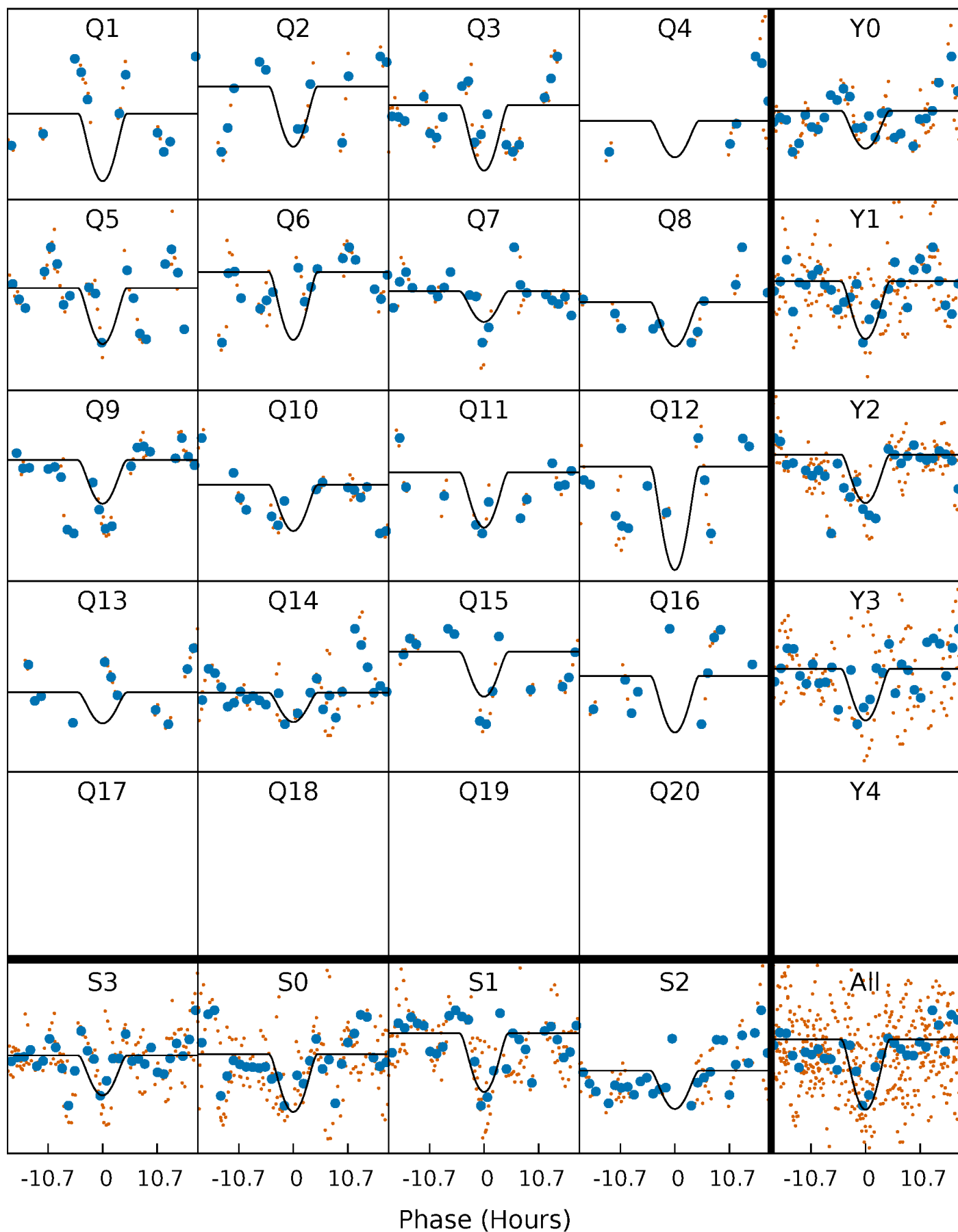
PDC Quarter-Phased Transit Curves

TCE 008264075-05 $P = 46.962667$ Days $T_0 = 149.061556$ (BKJD)



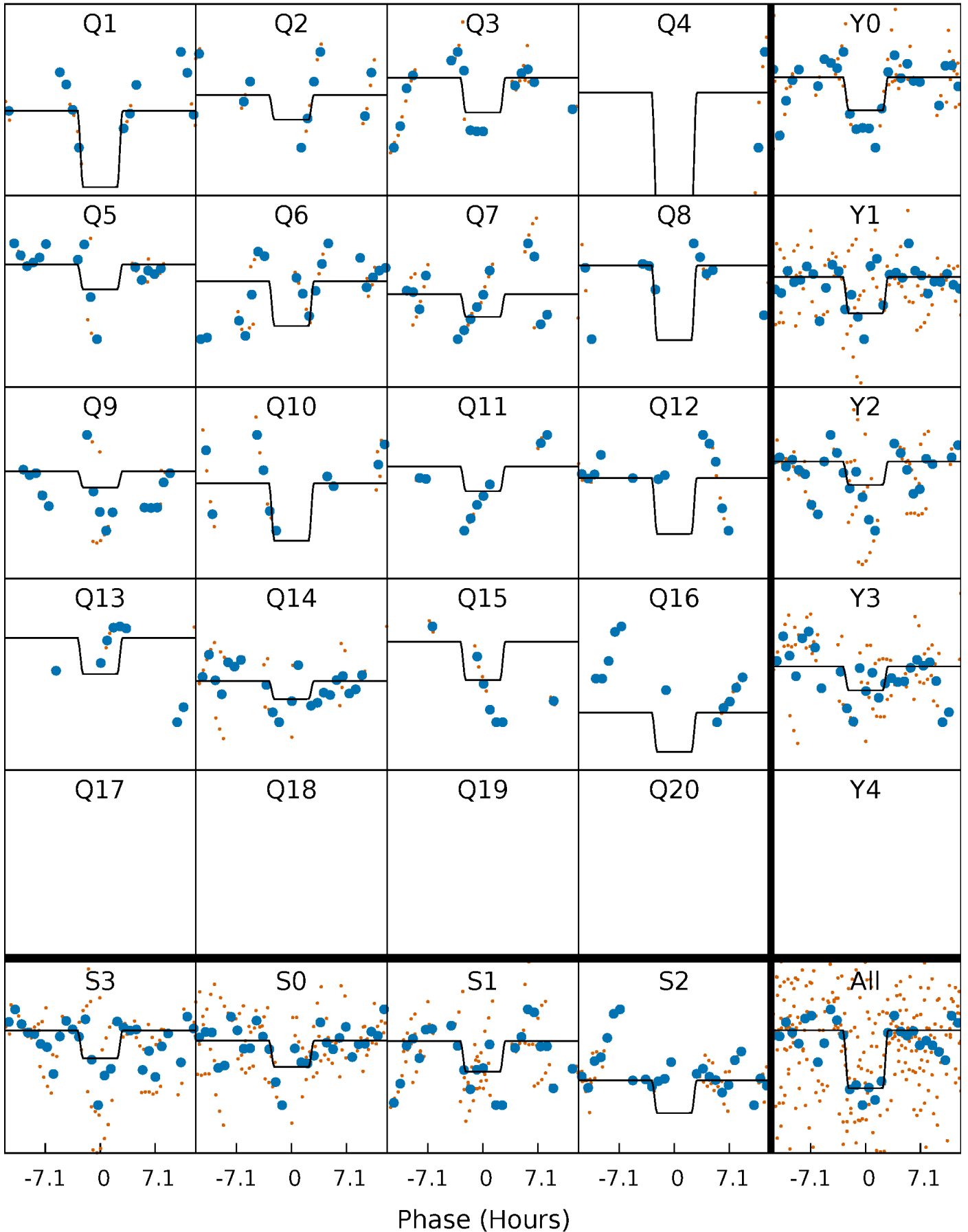
DV Quarter-Phased Transit Curves

TCE 008264075-05 P= 46.962667 Days $T_0=149.061556$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

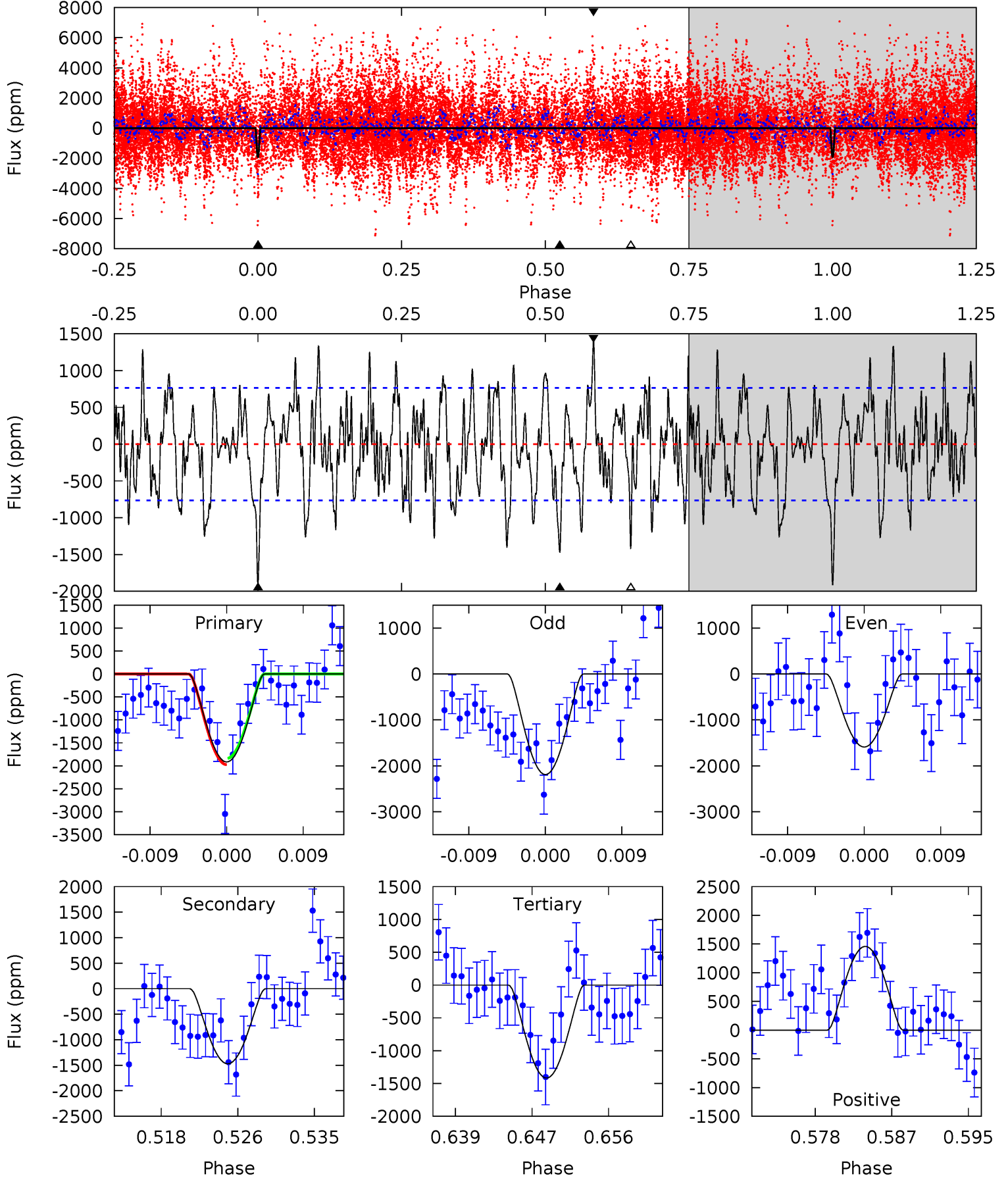
TCE 008264075-05 $P = 46.963037$ Days $T_0 = 149.063285$ (BKJD)



DV Model-Shift Uniqueness Test

008264075-05, P = 46.962667 Days, E = 102.098889 Days

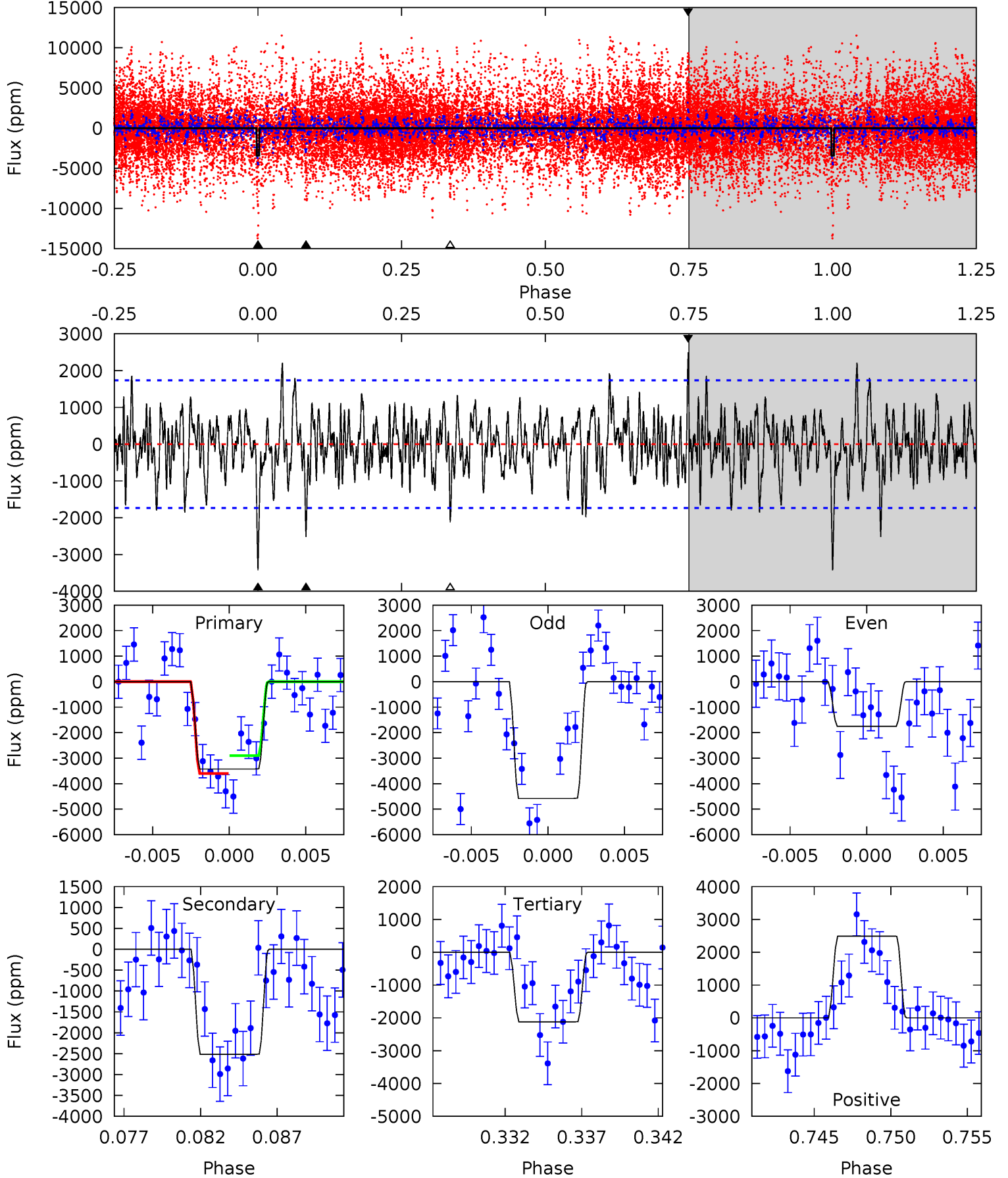
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.7	9.72	9.37	9.64	5.05	2.63	3.45	3.29	3.02	0.35	0.08	1.98	0.74	0.43	0.45



Alt Model-Shift Uniqueness Test

008264075-05, P = 46.963037 Days, E = 102.100248 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.2	7.48	6.31	7.41	5.15	2.80	1.91	3.87	2.77	1.17	0.07	4.20	0.91	0.42	1.03



Stellar Parameters For KIC 008264075

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7872^{+216}_{-351}	$4.049^{+0.150}_{-0.150}$	$0.070^{+0.200}_{-0.350}$	$2.124^{+0.494}_{-0.494}$	$1.841^{+0.147}_{-0.319}$	$0.271^{+0.216}_{-0.111}$
	+3%/-4%	+4%/-4%	+286%/-500%	+23%/-23%	+8%/-17%	+80%/-41%
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 008264075-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1471 ± 151	$39.36^{+35.40}_{-26.97}$	1260^{+92}_{-78}	3949^{+2458}_{-750}	49^{+474}_{-36}
Alt.	-2518 ± 337	$36.05^{+32.25}_{-24.41}$	1259^{+85}_{-87}	4497^{+3166}_{-929}	103^{+870}_{-76}

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 $A_{obs} \gg 1.0$

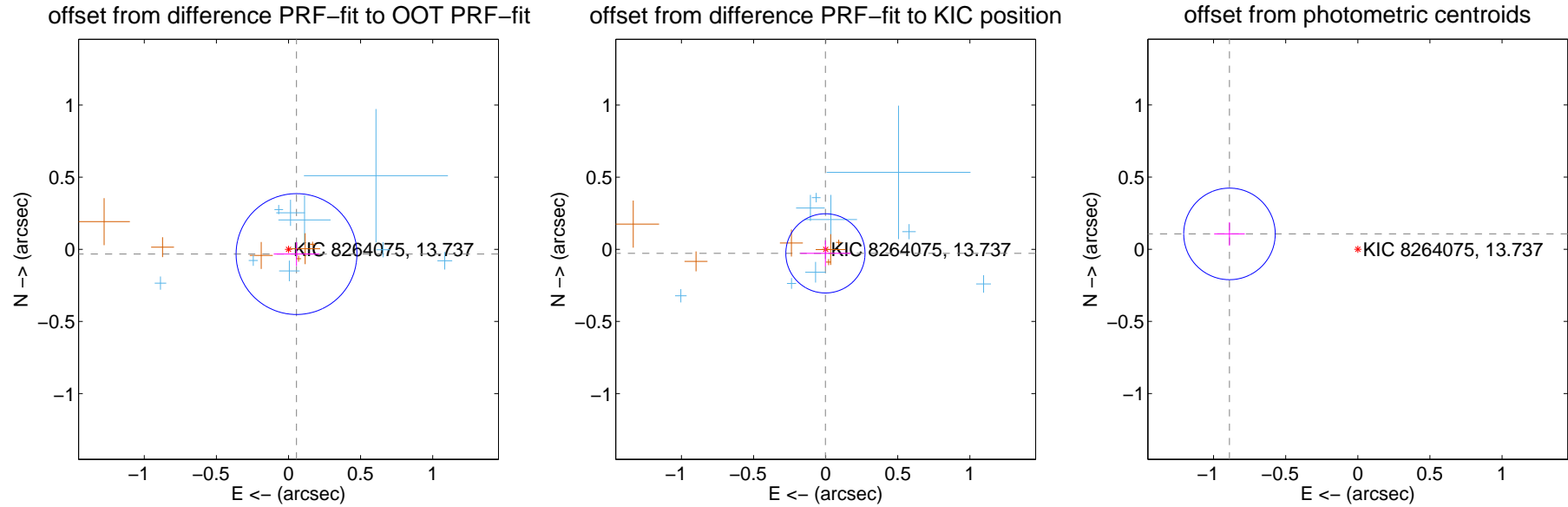
DV Centroid Data

Supplemental centroid analysis for 008264075-05. Kepler magnitude: 13.74. Transit SNR 6.96

There are 9 quarters with good PRF difference image offsets

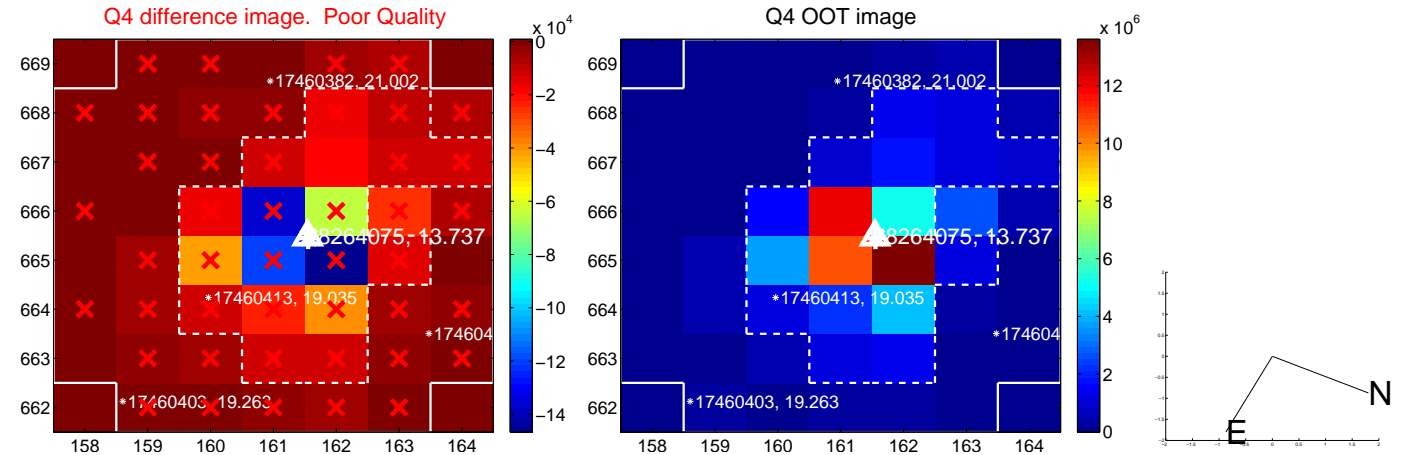
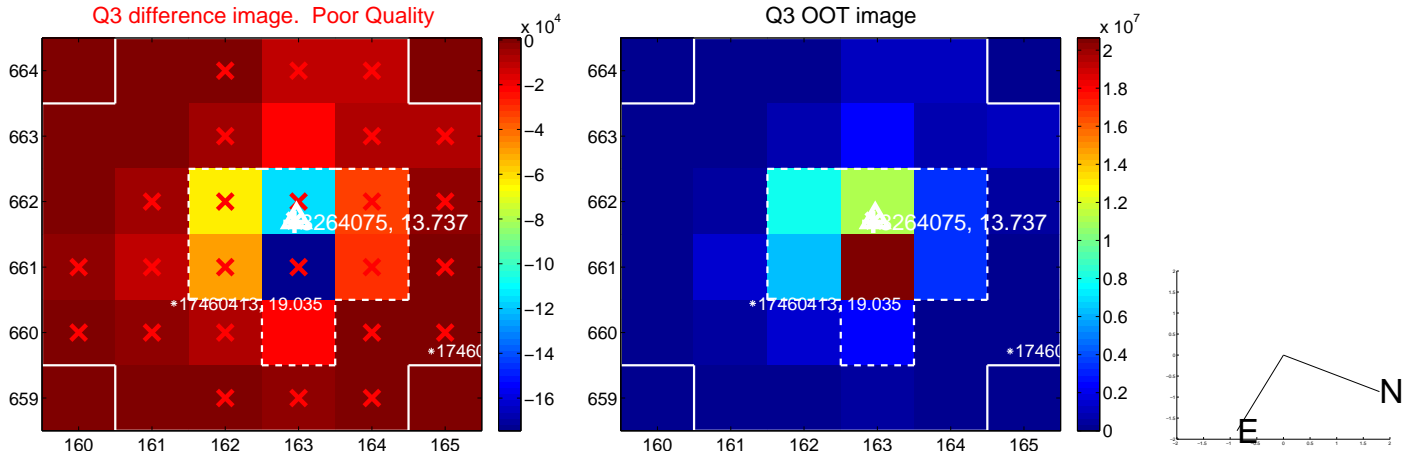
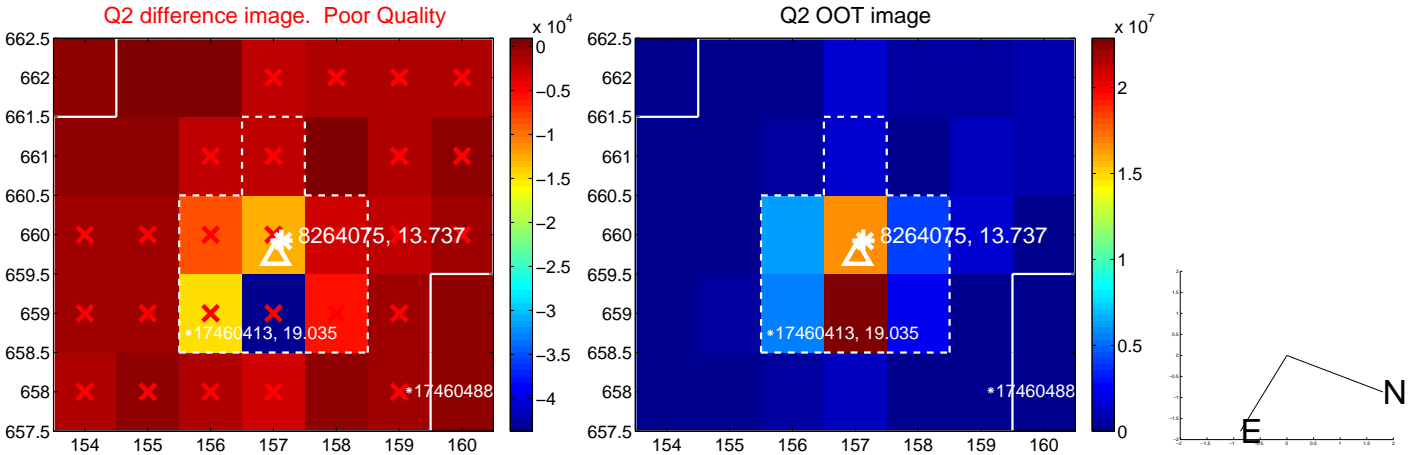
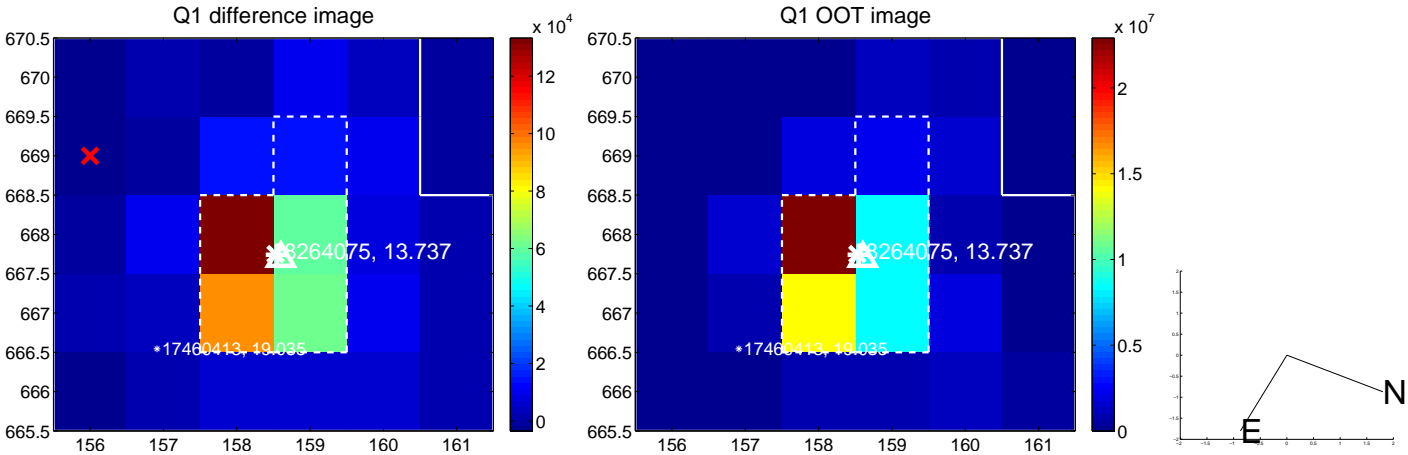
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.065 ± 0.140	0.46	-0.056 ± 0.158	-0.033 ± 0.082
PRF-fit source offset from KIC position	0.028 ± 0.092	0.31	0.002 ± 0.174	-0.028 ± 0.090
photometric centroid source offset	0.90 ± 0.11	8.47	0.89 ± 0.11	0.11 ± 0.08

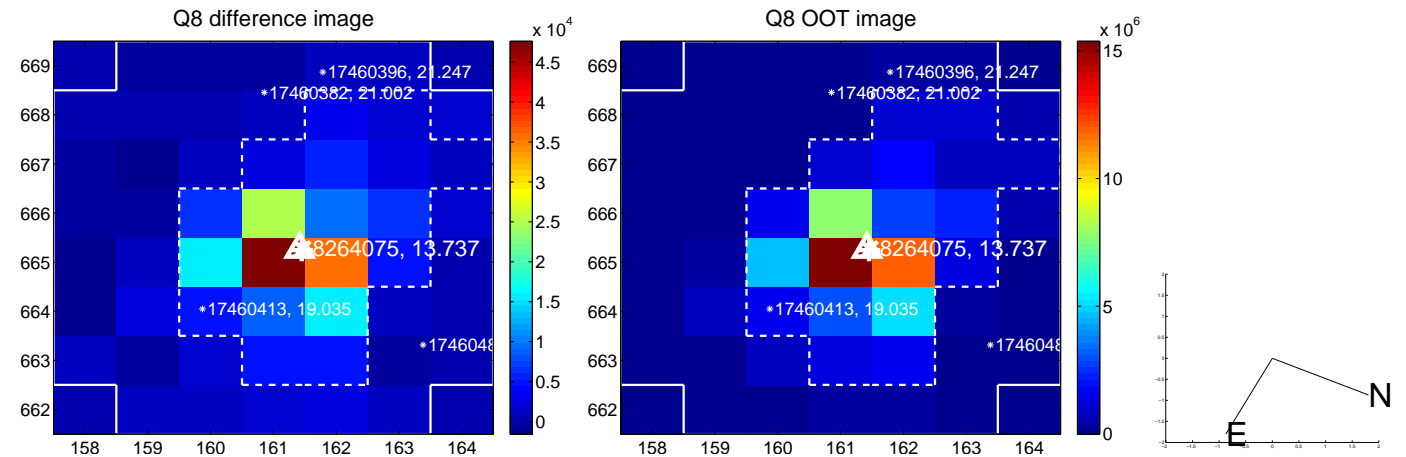
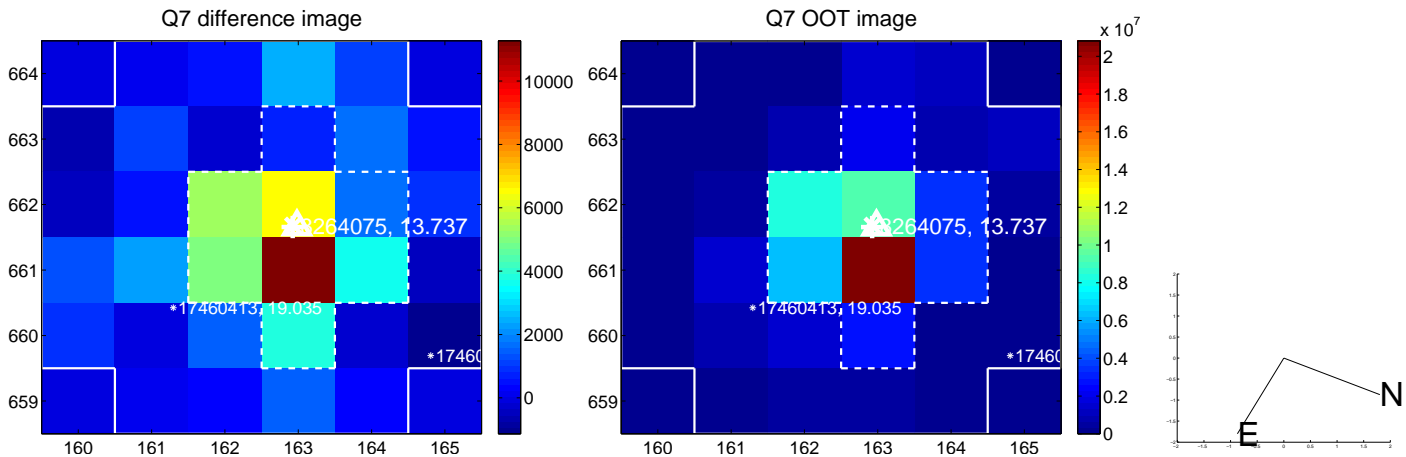
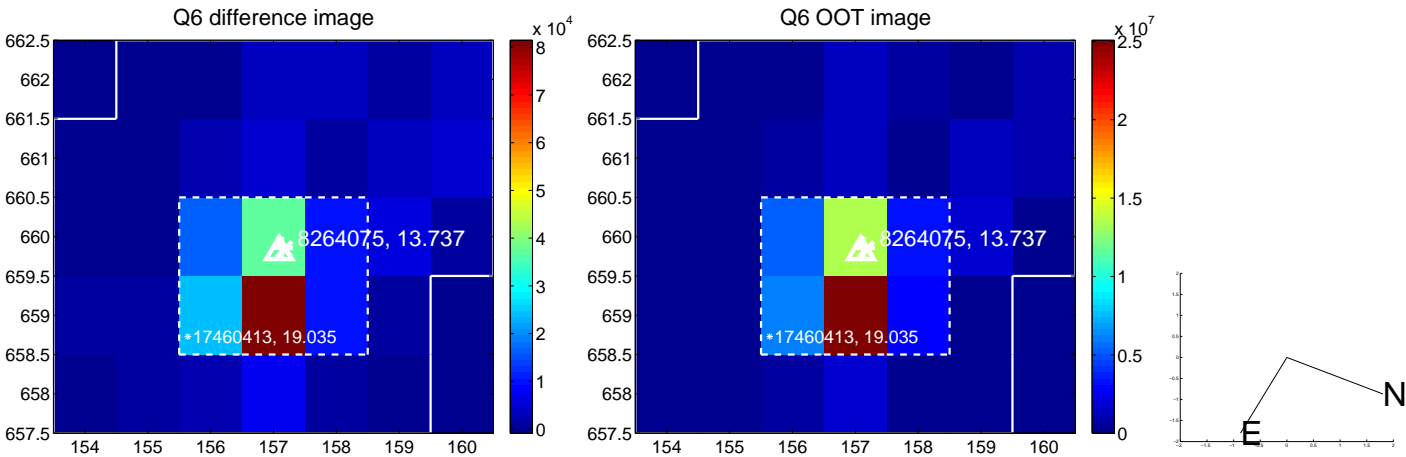
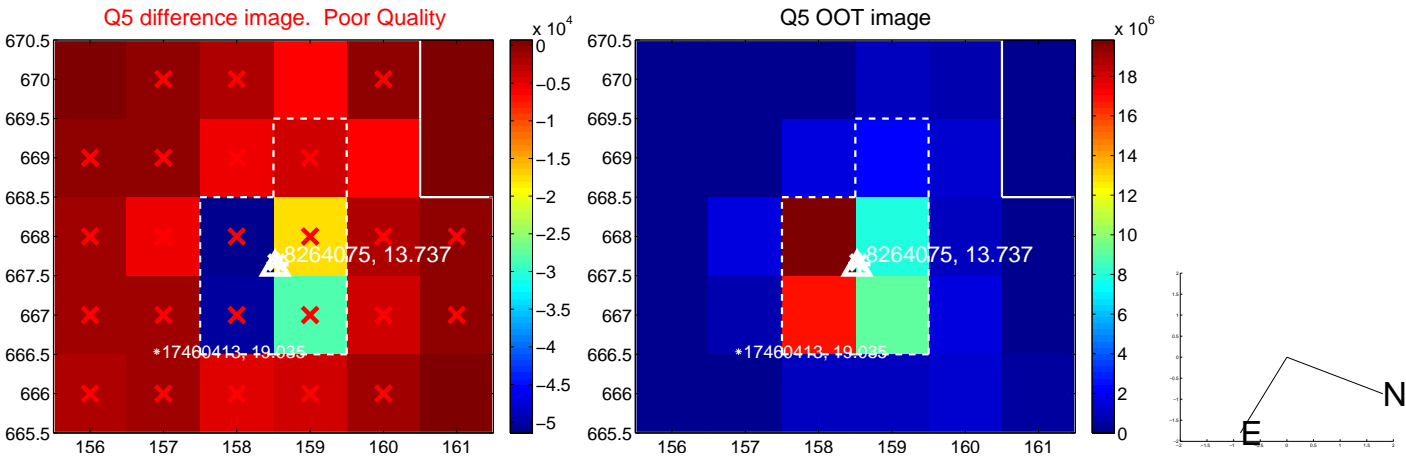


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

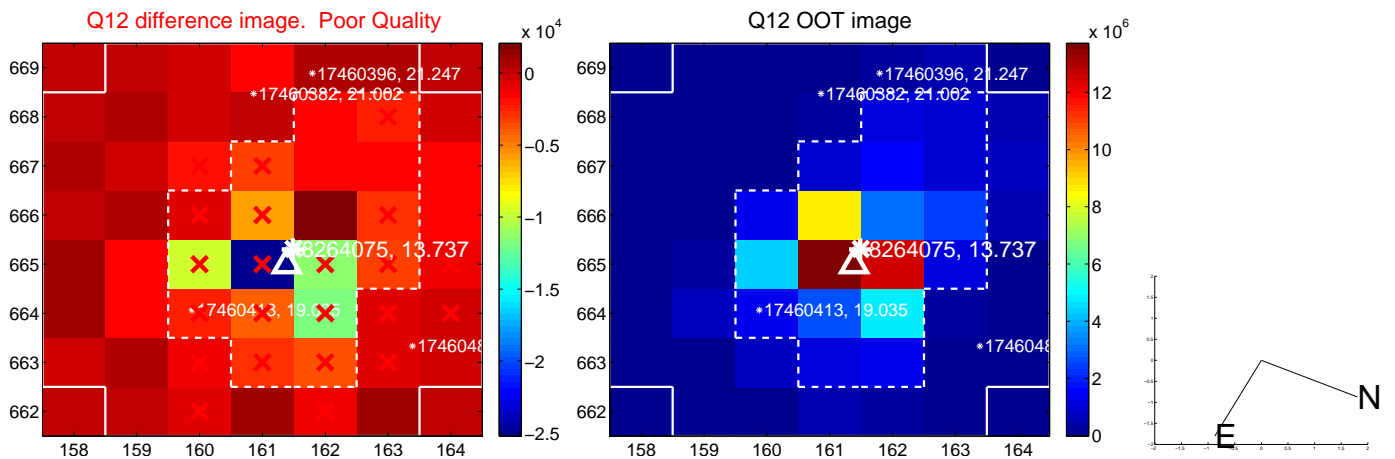
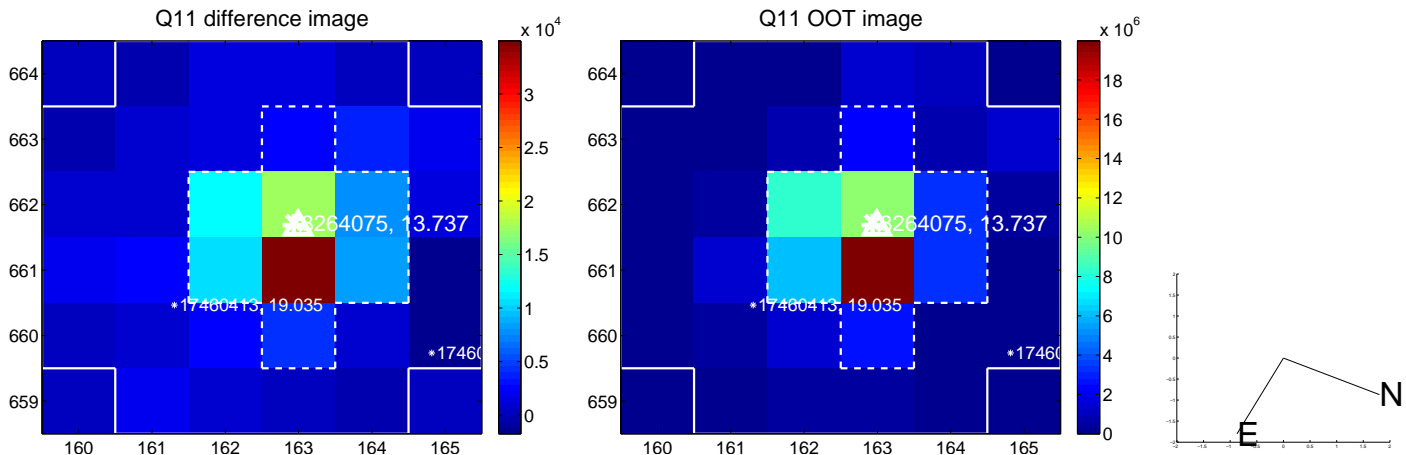
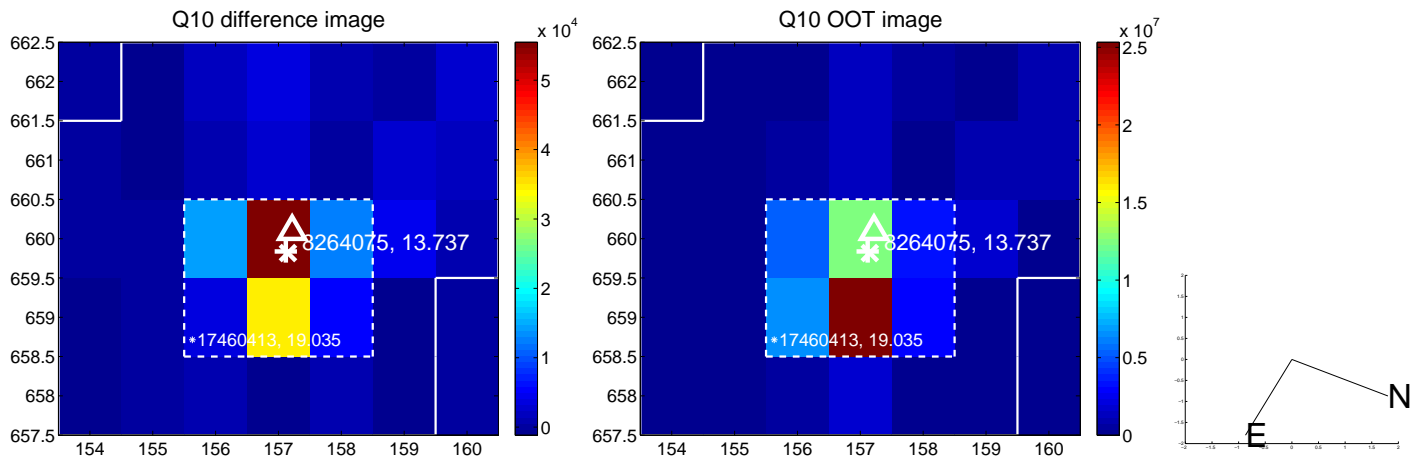
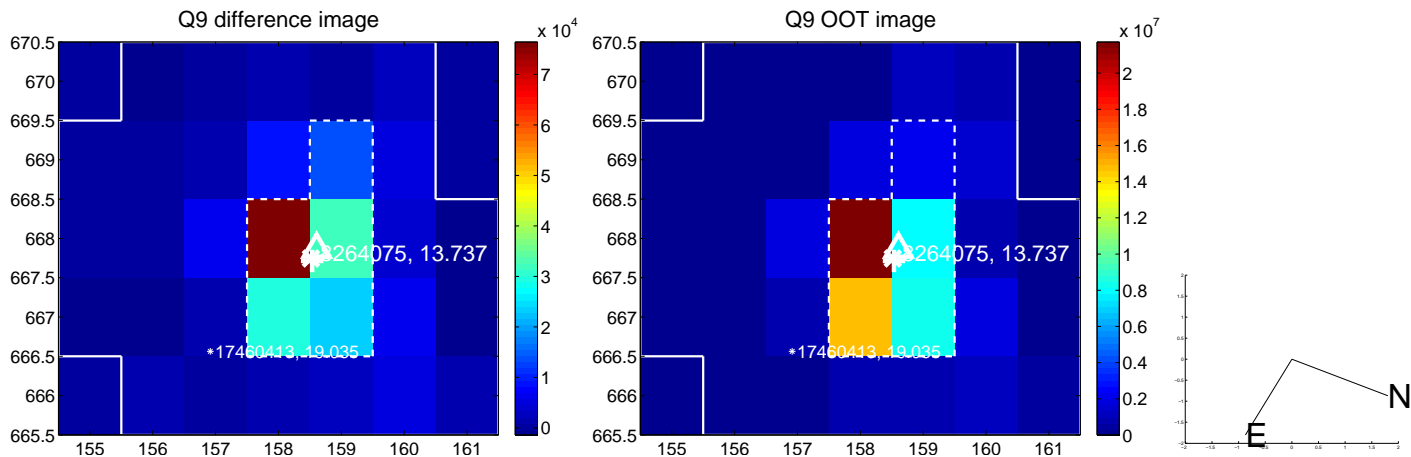
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



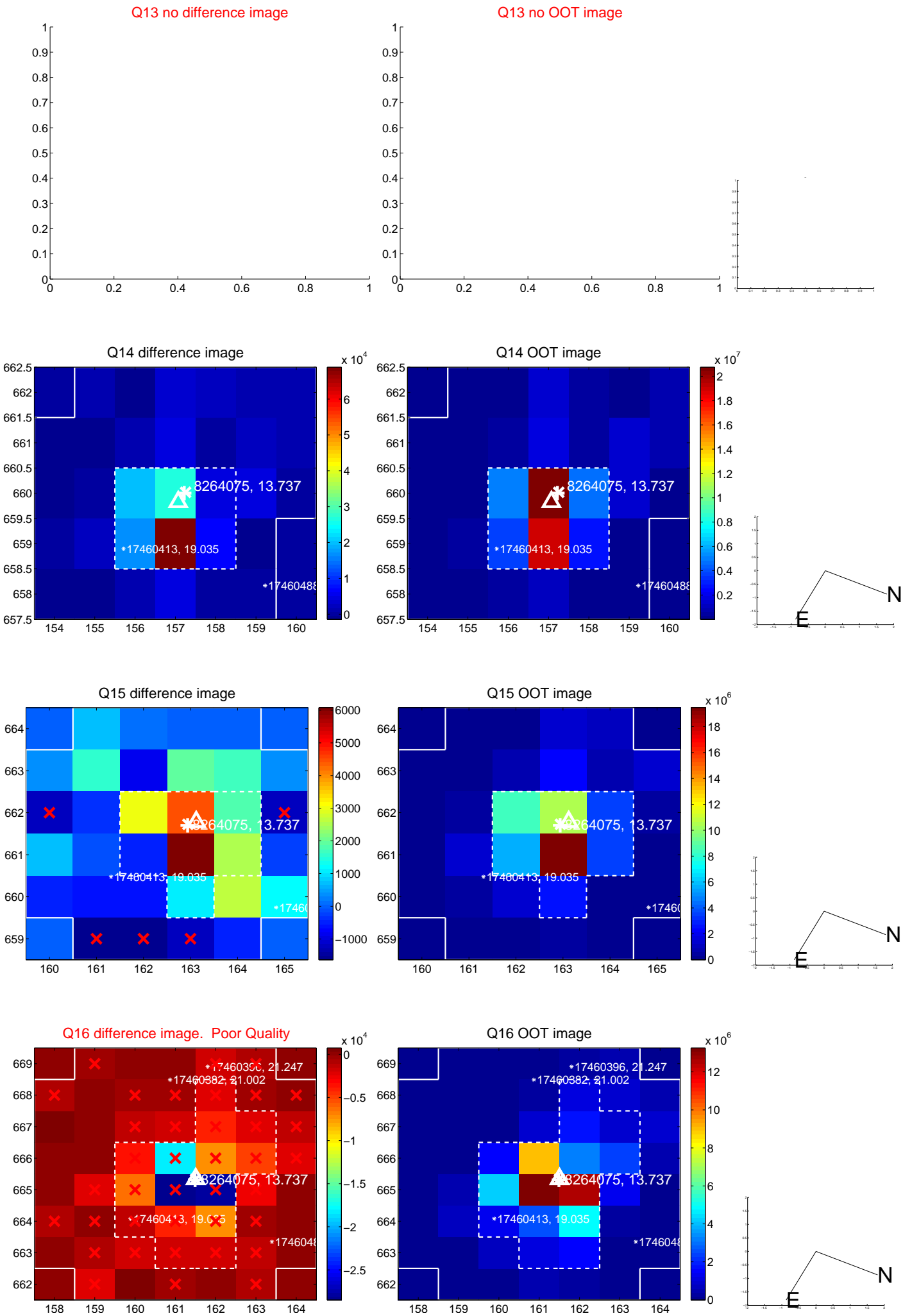
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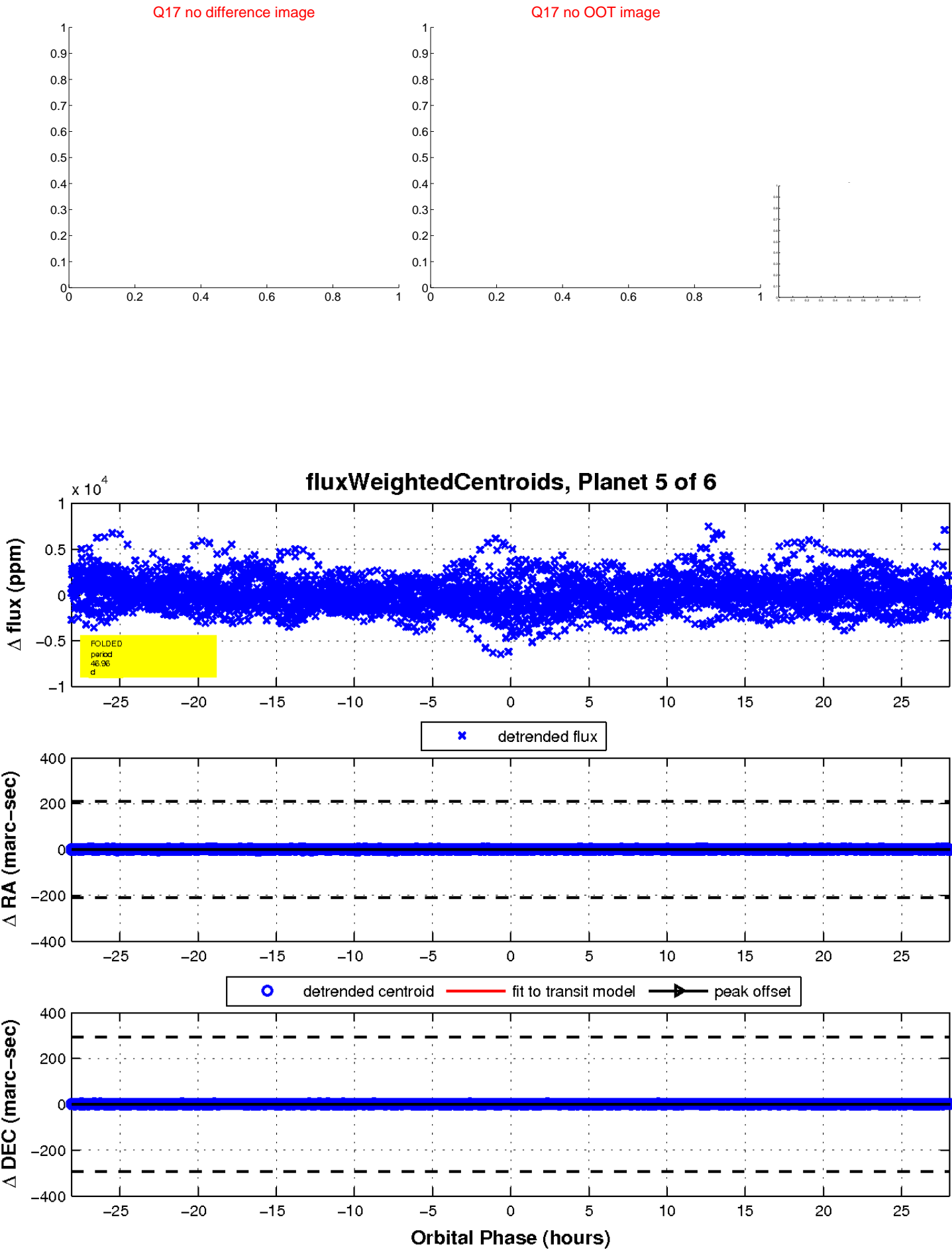
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white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

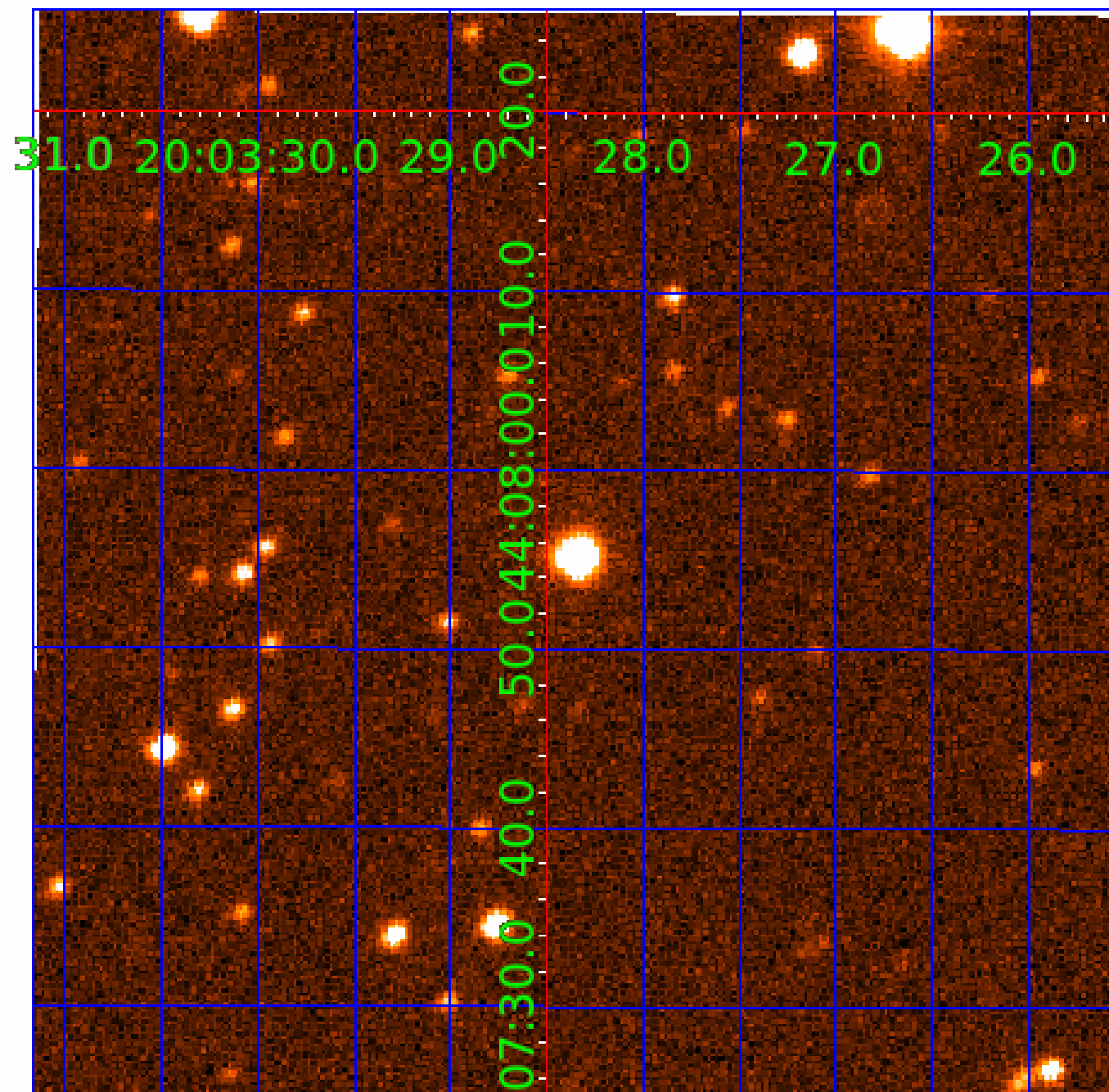


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264075

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})
008264075-01	OBS	No	0.665089	132.091437	42.1	1.837	10.3	4.1	2.12	7872	1.59	46433.47
008264075-02	OBS	No	0.646726	131.618387	83.4	1.196	8.1	5.9	2.12	7872	2.26	48199.67
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008264075-06	OBS	No	328.845738	138.601439	456.2	3.500	8.2	-1.0	2.12	7872	4.60	11.88

Robovetter Results

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008264075-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT
008264075-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
008264075-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—HALO_GHOST
008264075-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

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

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

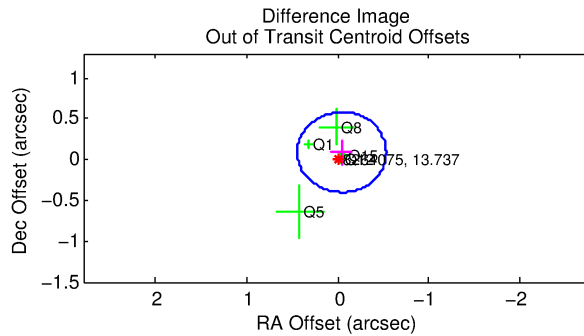
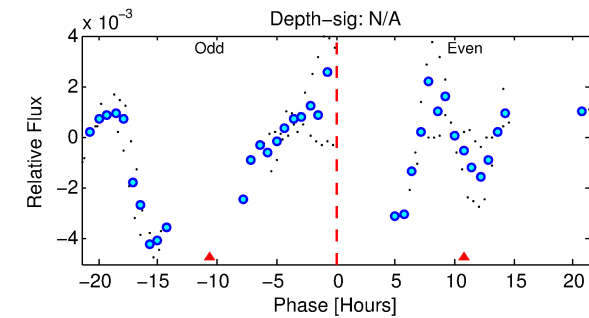
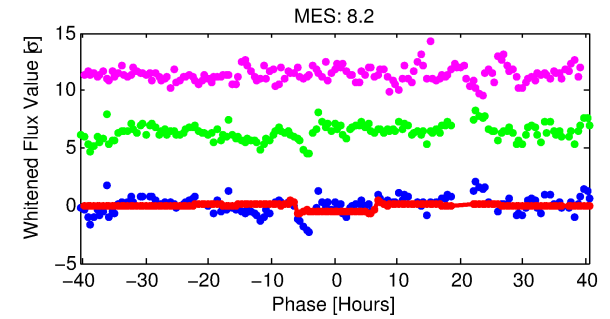
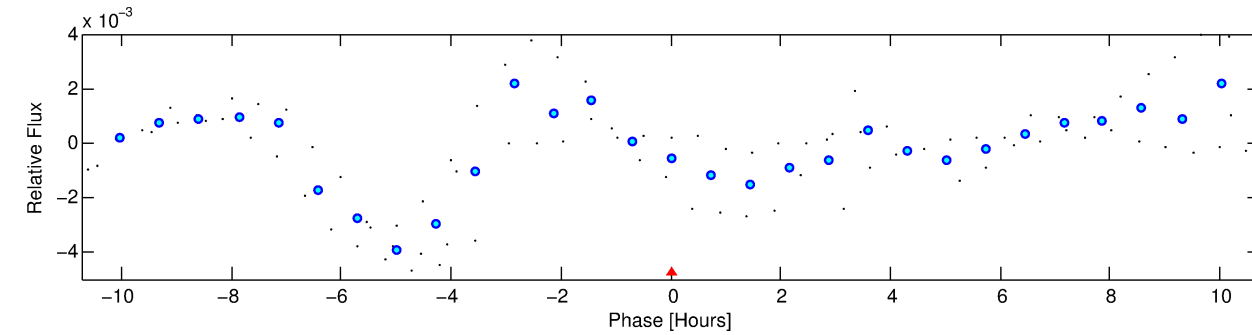
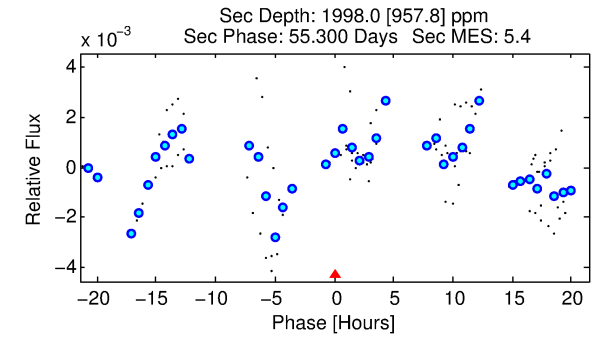
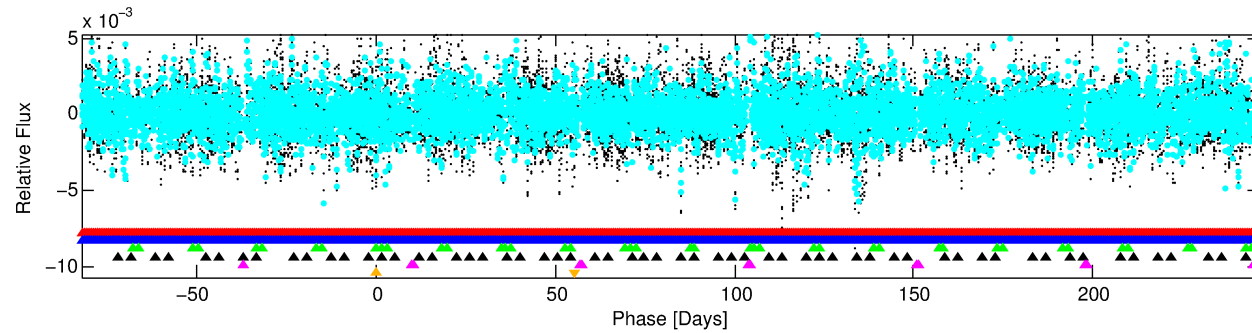
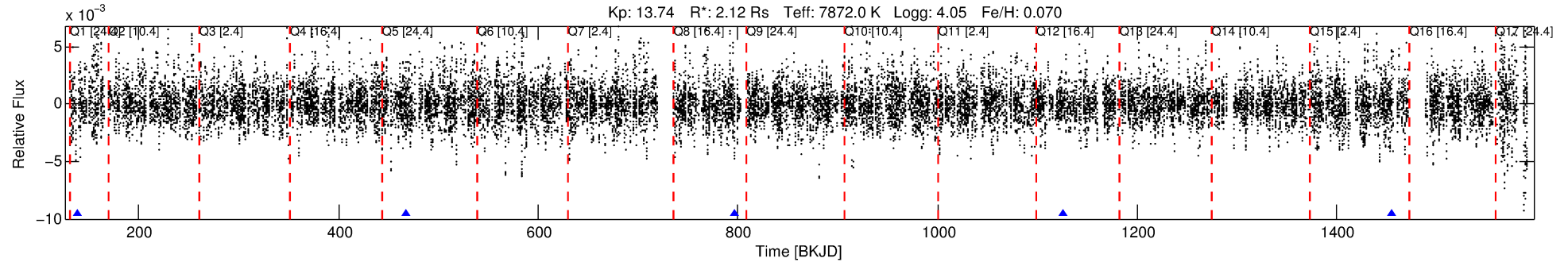
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264075-06

No Significant Match Found

DV One-Page Summary

KIC: 8264075 Candidate: 6 of 6 Period: 328.846 d



TPS TCE Results:

Period = 328.84574 d
Epoch = 138.6014 BKJD

DV fit results are unavailable

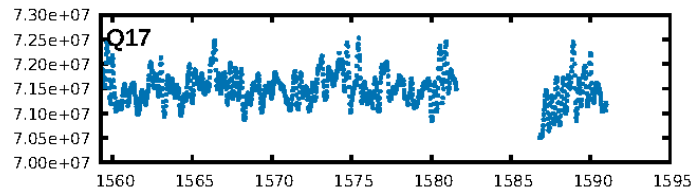
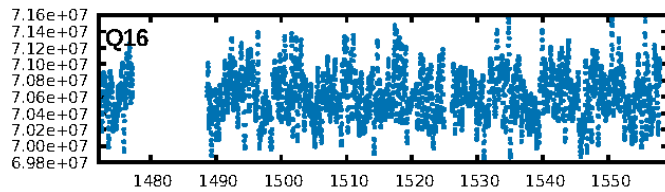
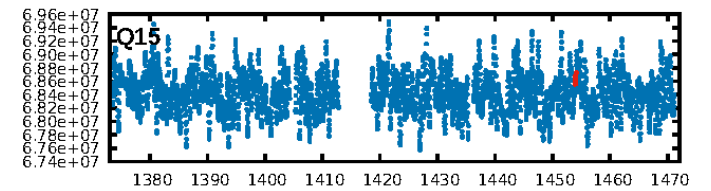
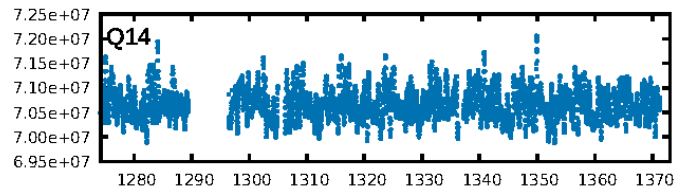
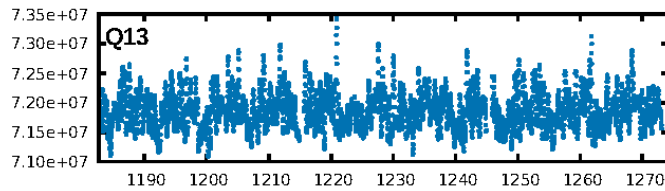
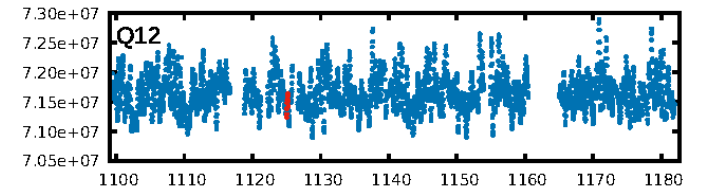
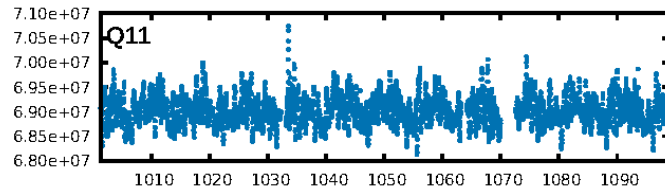
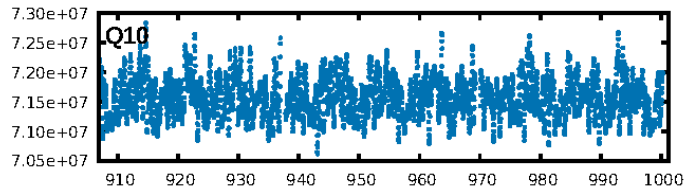
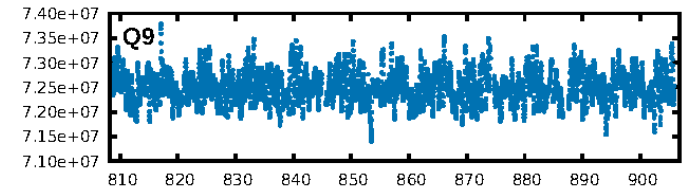
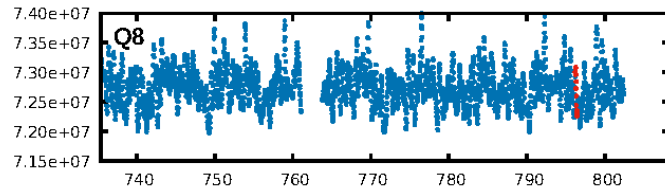
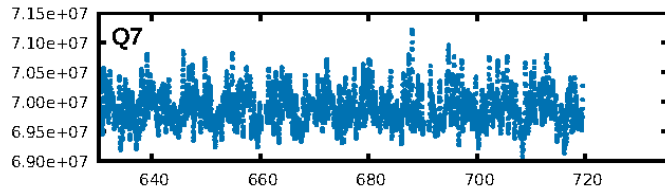
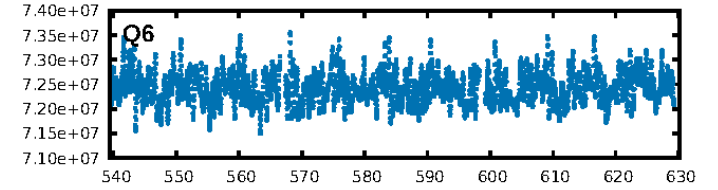
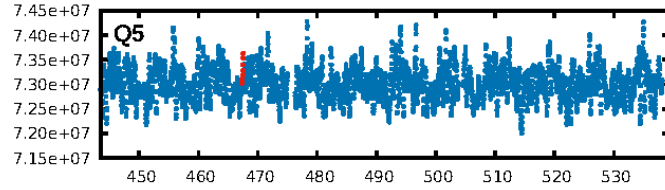
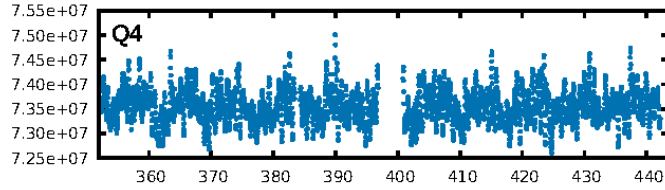
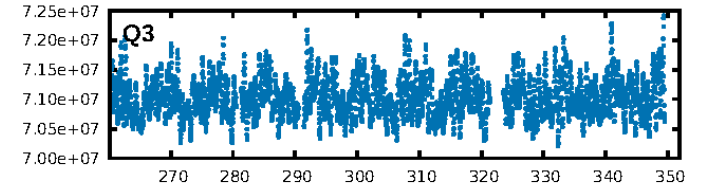
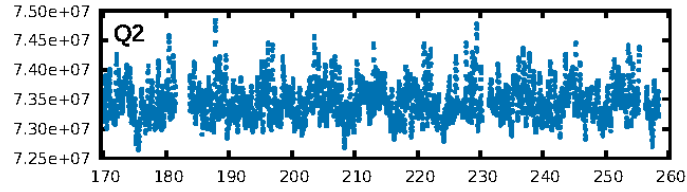
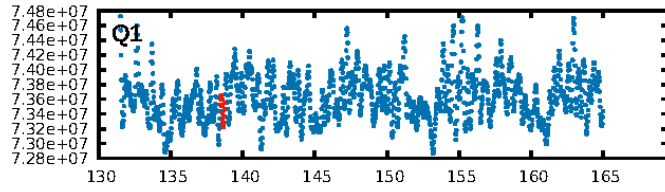
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [676.66σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2/2]
GhostDiagnostic-chr: 5.914
Centroid-sig: 94.3%
Centroid-so: 0.886 arcsec [2.85σ]
OotOffset-rm: 0.101 arcsec [0.62σ]
KicOffset-rm: 0.142 arcsec [1.28σ]
OotOffset-st: 0/1/2/2 [5]
KicOffset-st: 0/1/2/2 [5]
DiffImageQuality-fgm: 0.40 [2/5]
DiffImageOverlap-fno: 0.00 [0/5]

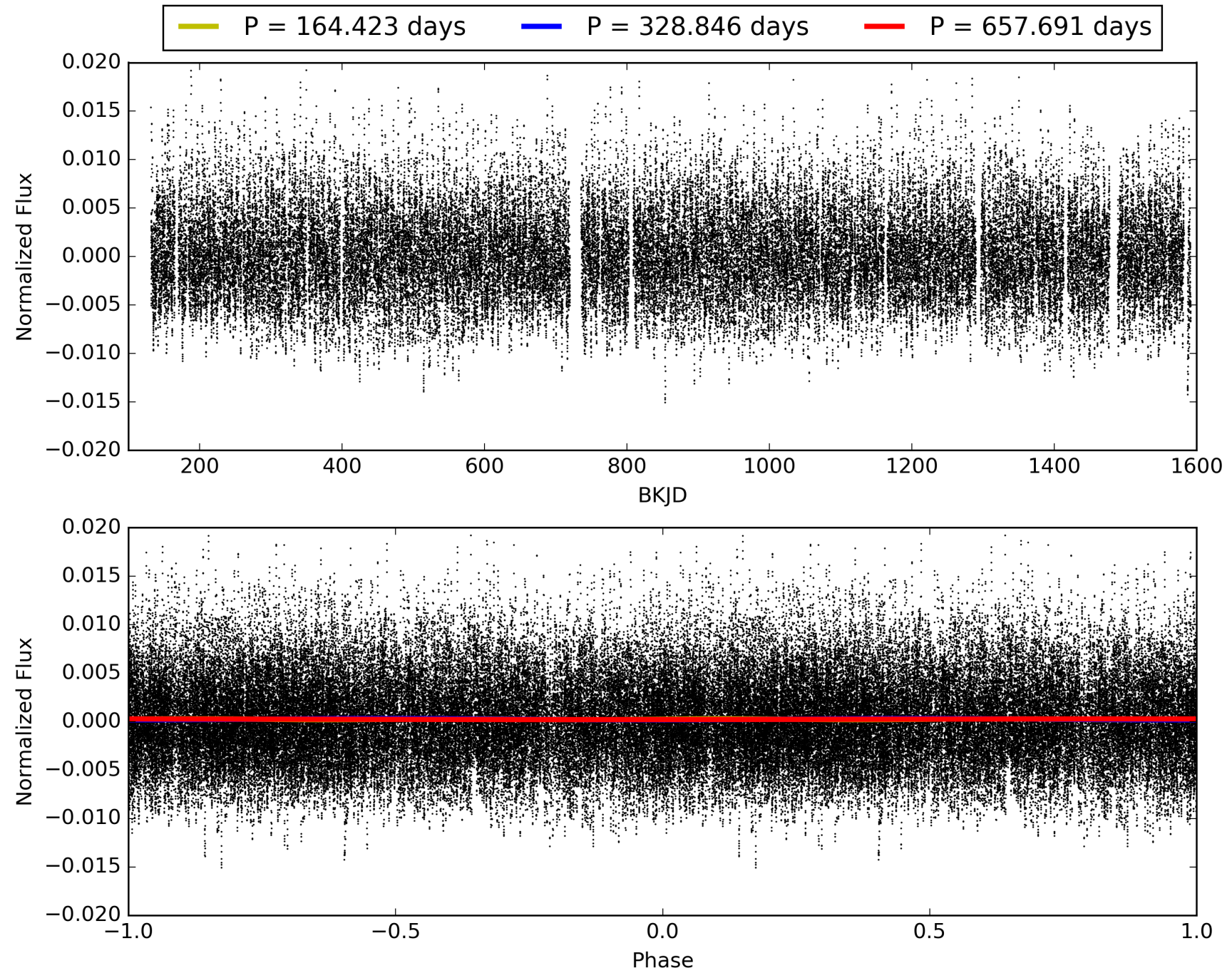
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:54:05 Z

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

TCE 008264075-06, PDC Light Curves

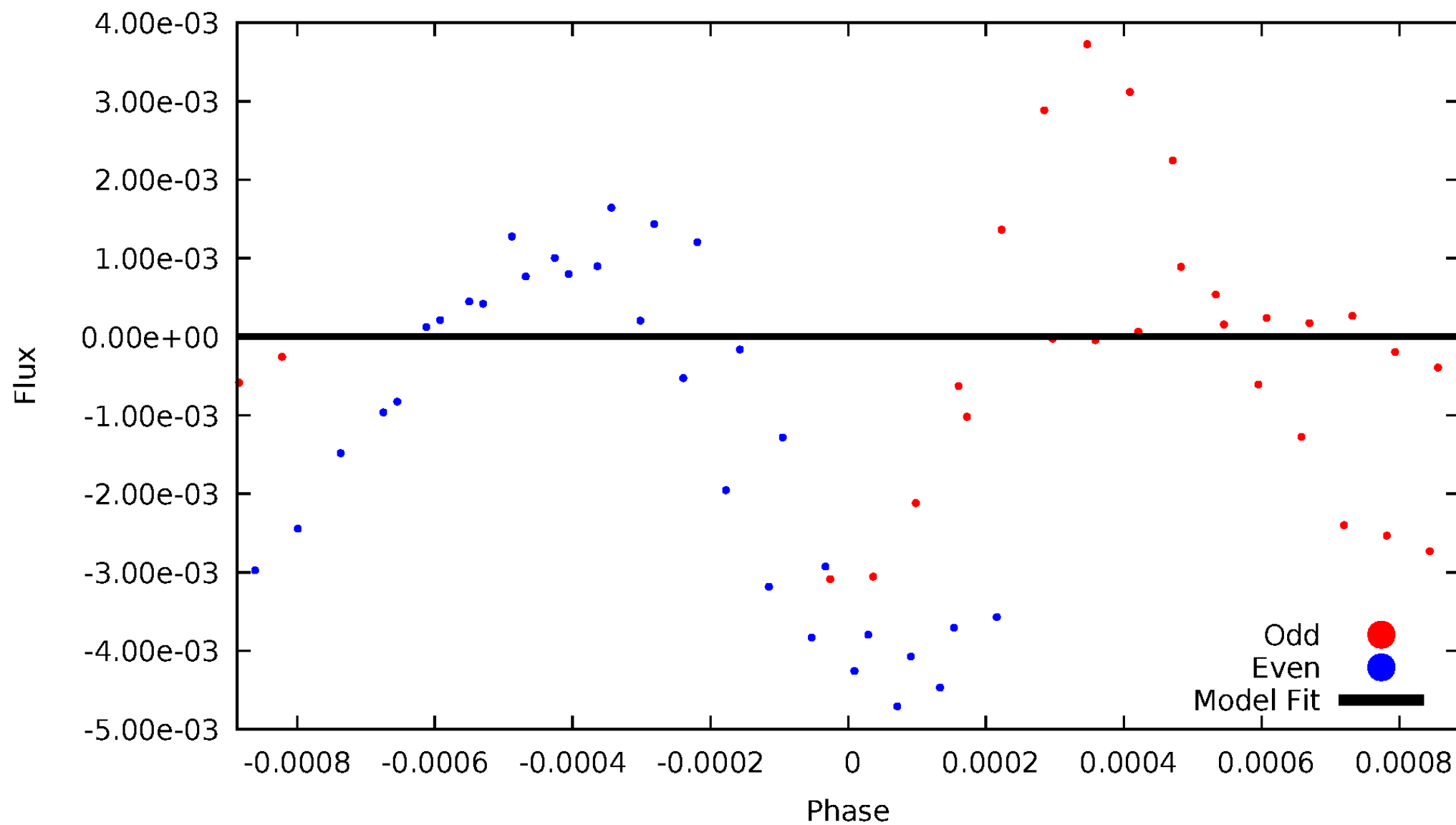


TCE 008264075-06



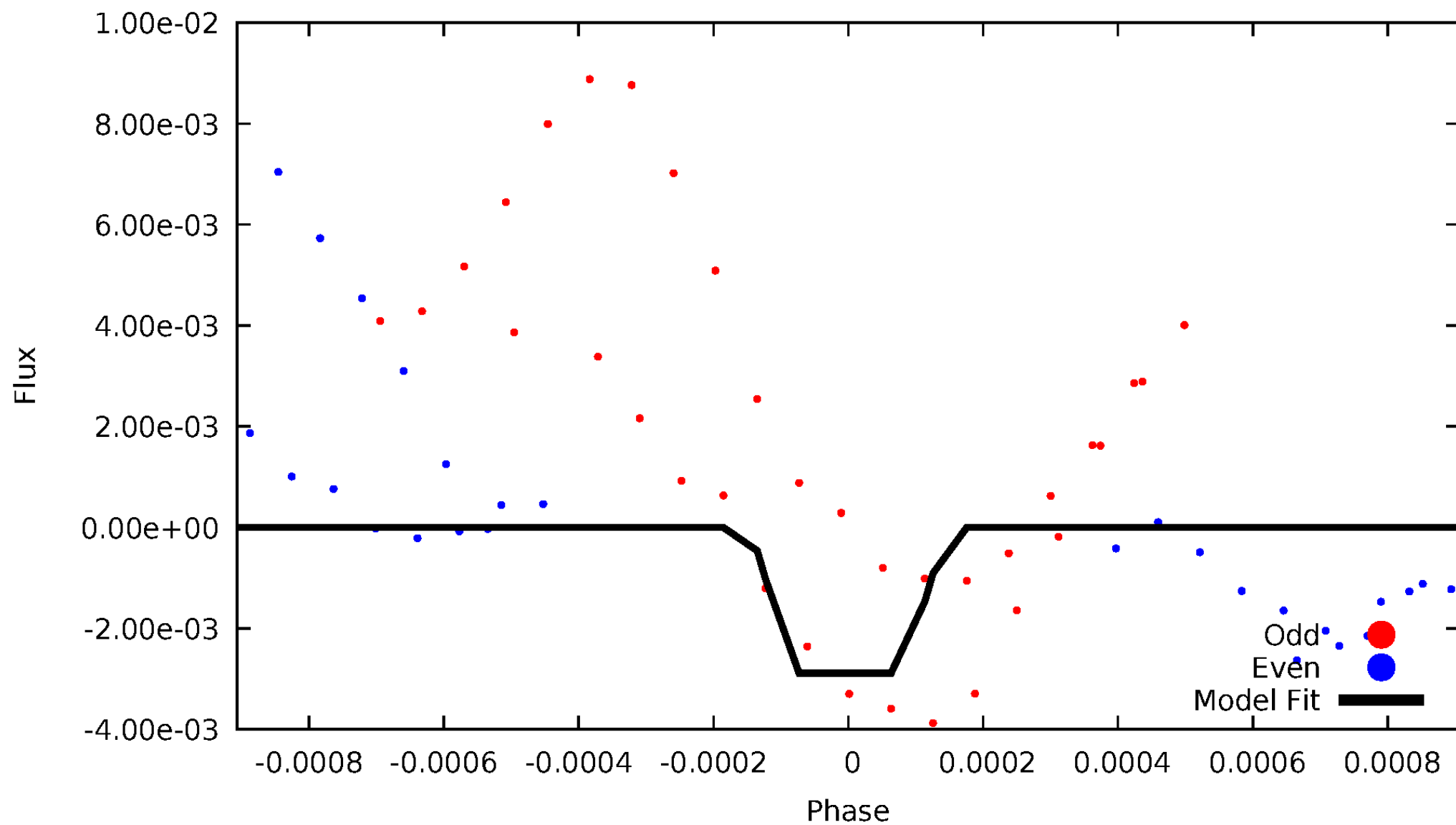
DV Odd/Even

TCE 008264075-06



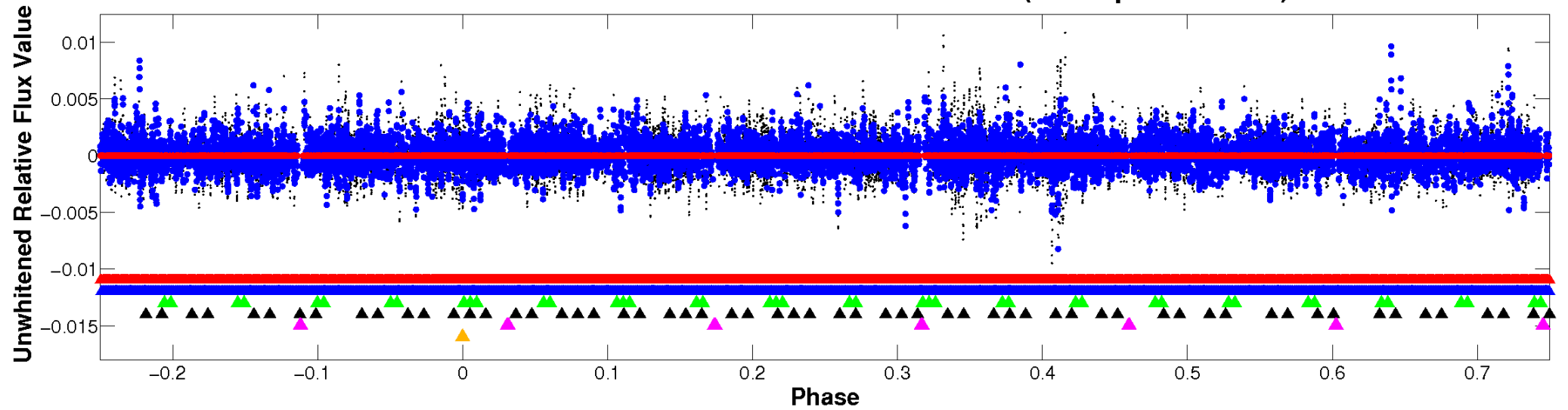
ALT Odd/Even

TCE 008264075-06

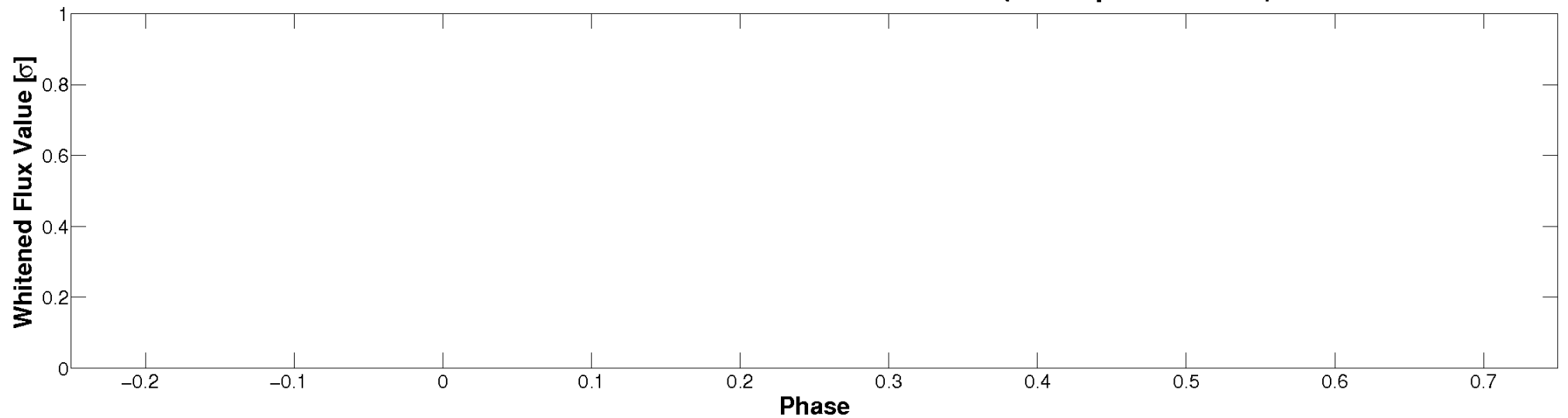


Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

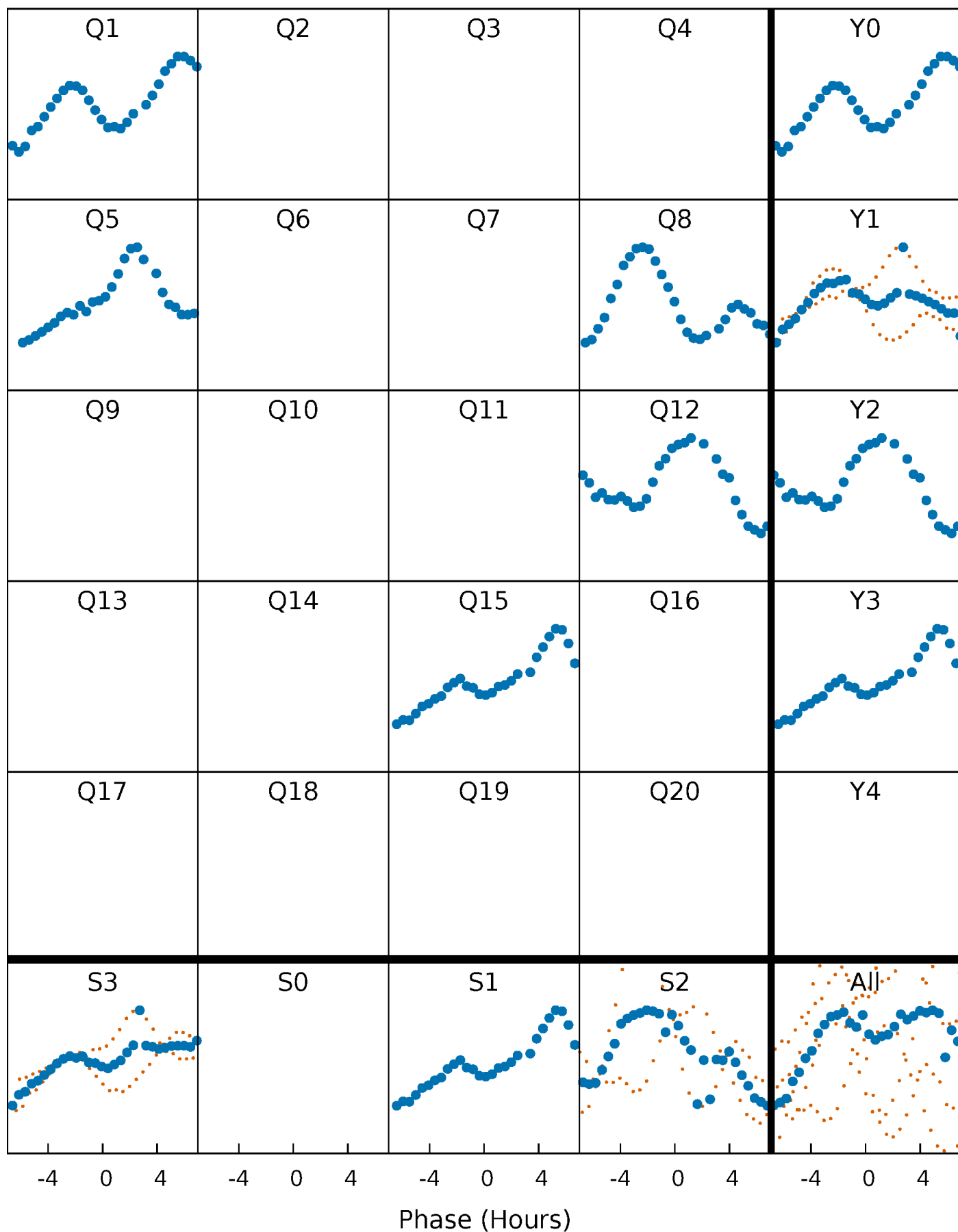


Planet 6 : Phased Whitened Flux Time Series (TPS Epoch/Period)



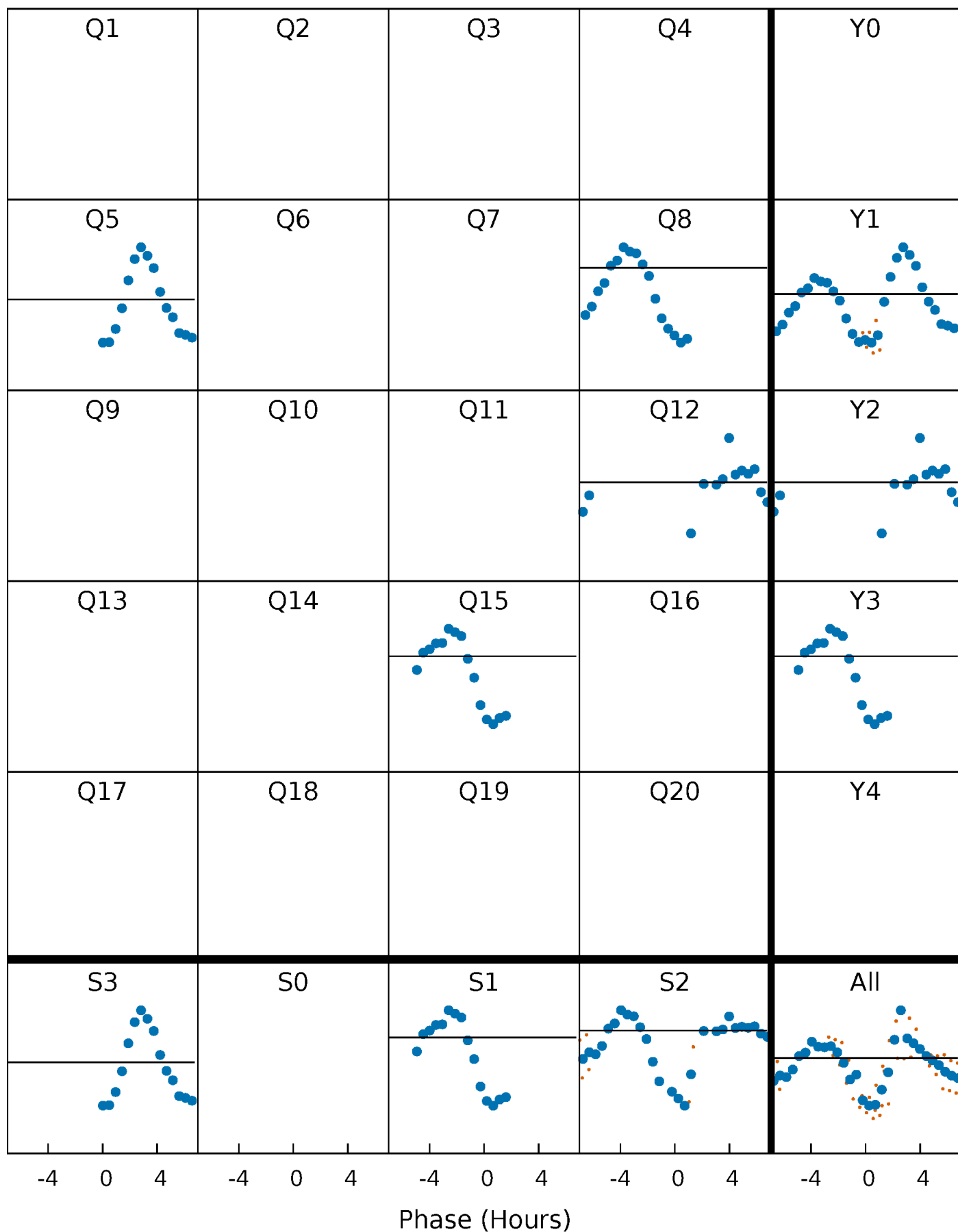
PDC Quarter-Phased Transit Curves

TCE 008264075-06 P=328.845738 Days $T_0=138.601439$ (BKJD)



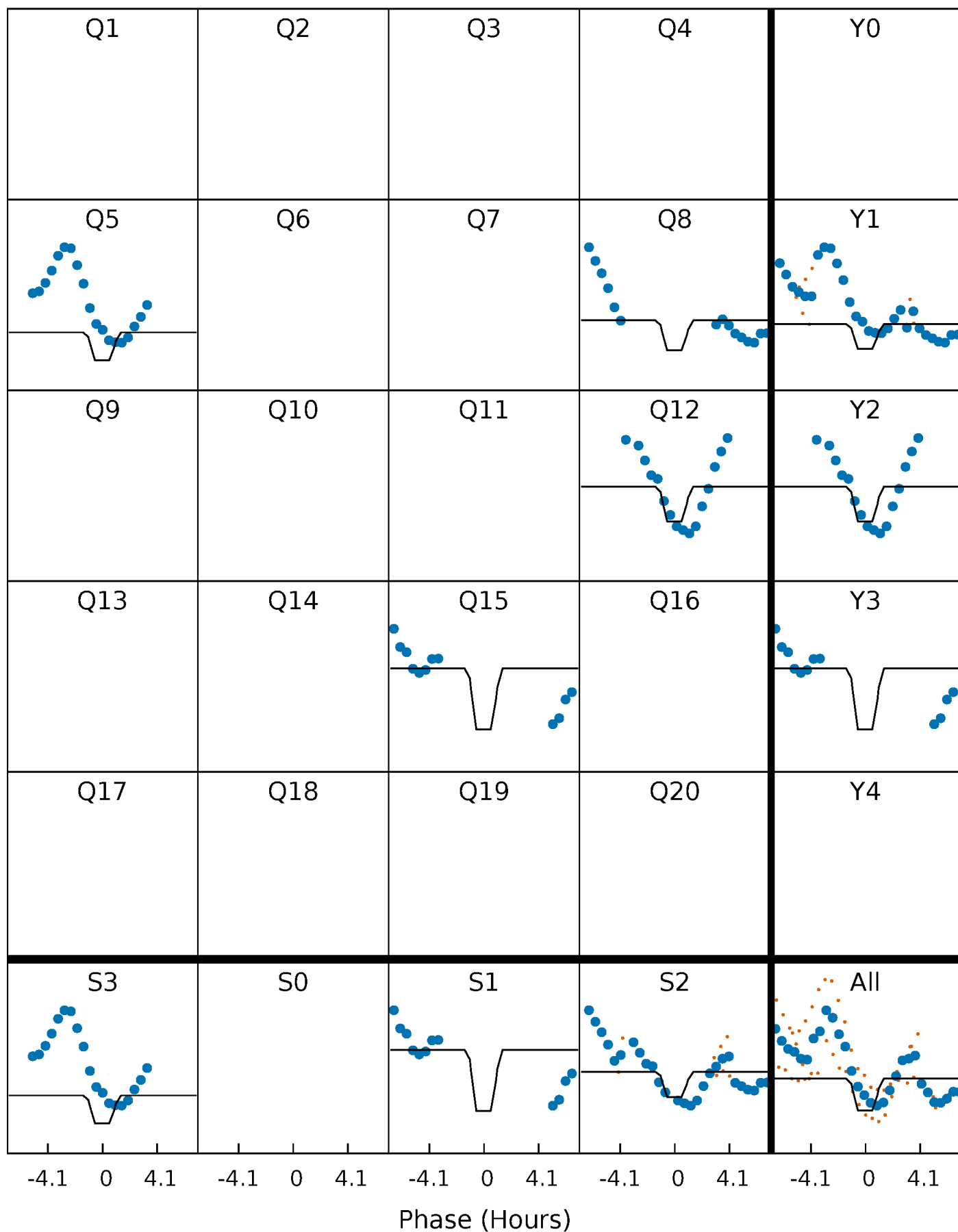
DV Quarter-Phased Transit Curves

TCE 008264075-06 $P=328.845738$ Days $T_0=138.601439$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

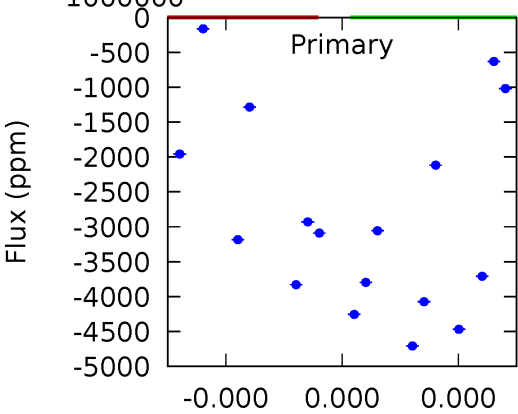
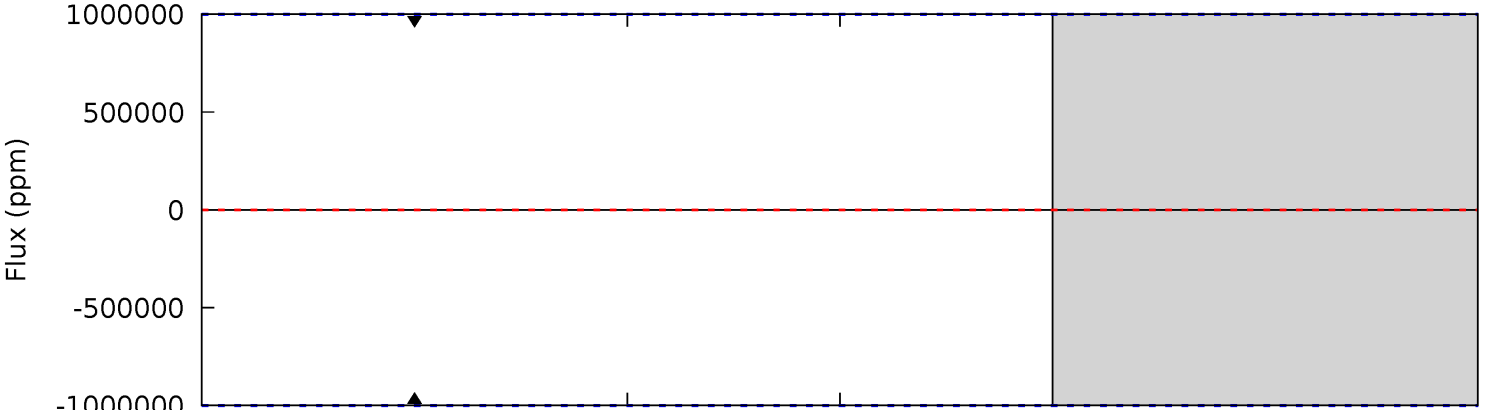
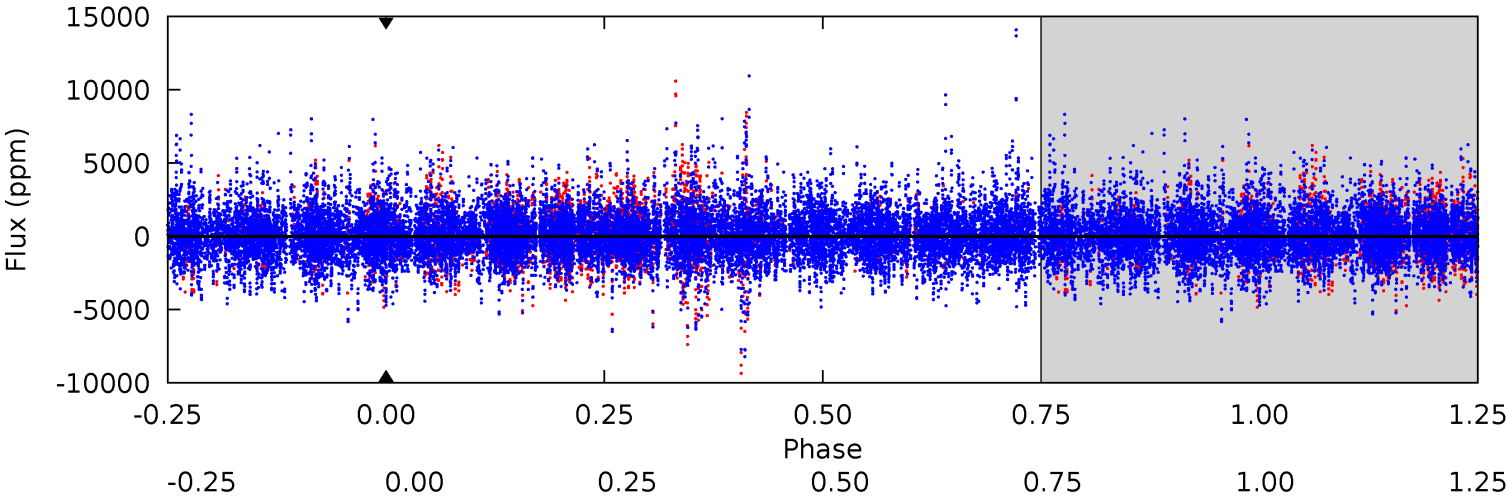
TCE 008264075-06 P=328.845738 Days $T_0=138.821128$ (BKJD)



DV Model-Shift Uniqueness Test

008264075-06, P = 328.845738 Days, E = 138.601439 Days

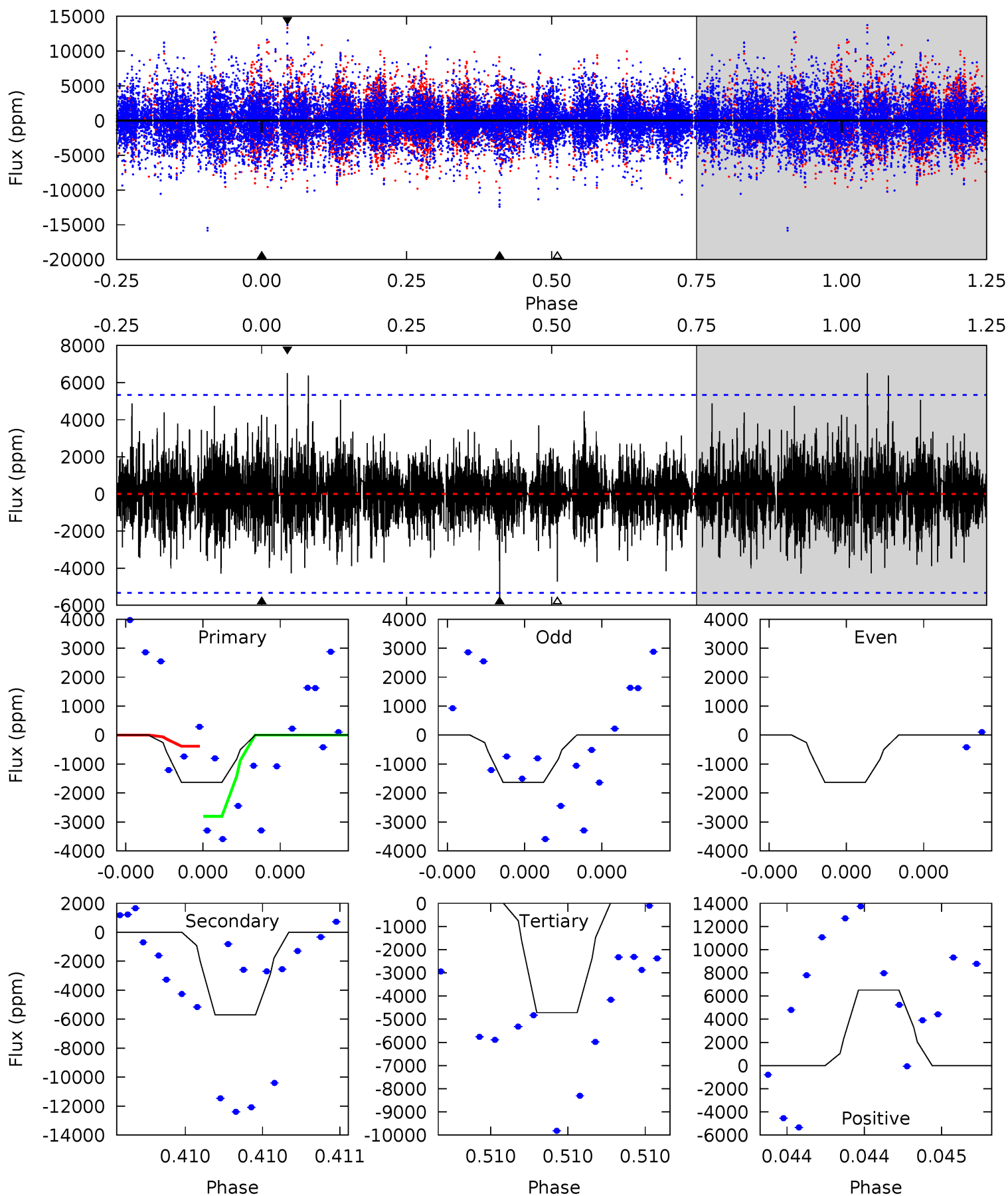
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

008264075-06, P = 328.845738 Days, E = 138.821128 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.74	6.08	5.03	6.94	5.69	3.65	1.22	-3.28	-5.20	1.05	-0.86	0	1.00	0.53	1.30



Stellar Parameters For KIC 008264075

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7872^{+216}_{-351}	$4.049^{+0.150}_{-0.150}$	$0.070^{+0.200}_{-0.350}$	$2.124^{+0.494}_{-0.494}$	$1.841^{+0.147}_{-0.319}$	$0.271^{+0.216}_{-0.111}$
	+3%/-4%	+4%/-4%	+286%/-500%	+23%/-23%	+8%/-17%	+80%/-41%
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 008264075-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$17.45^{+18.26}_{-12.53}$	659^{+44}_{-44}	4445^{+41767}_{-46113}	$1687^{+465244}_{-420117}$
Alt.	-5703 ± 938	$20.73^{+21.07}_{-13.80}$	663^{+45}_{-46}	7168^{+8665}_{-2072}	9208^{+71943}_{-6852}

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 $A_{obs} \gg 1.0$

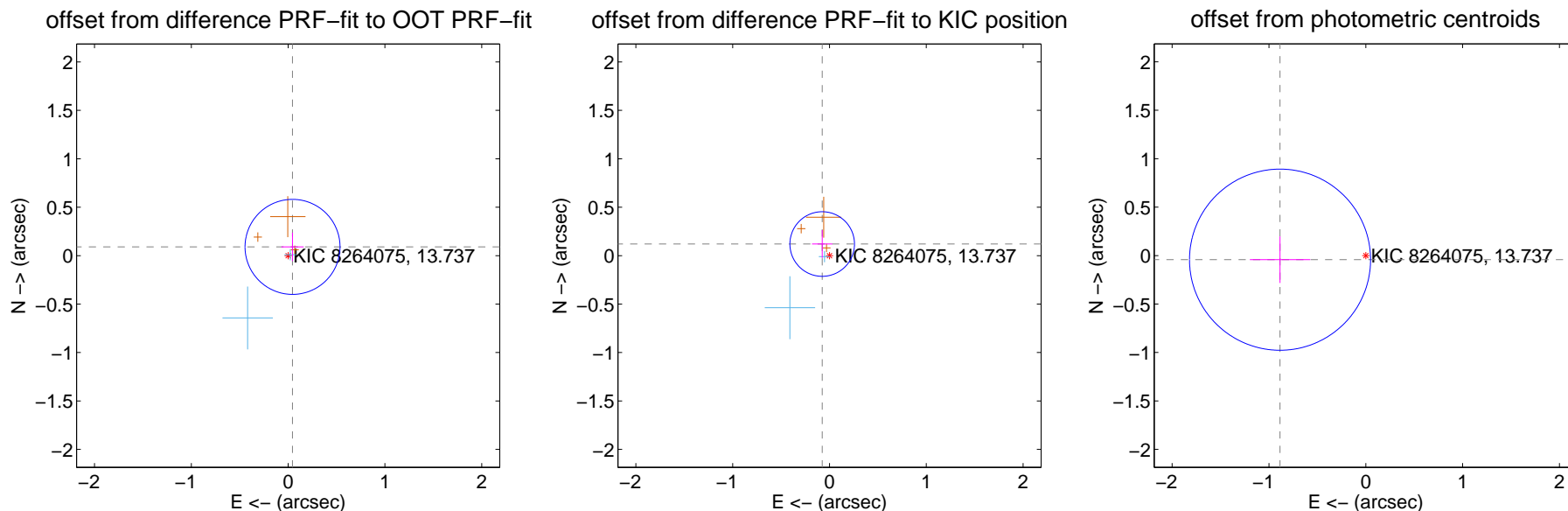
DV Centroid Data

Supplemental centroid analysis for 008264075-06. Kepler magnitude: 13.74. Transit SNR -1.00

There are 2 quarters with good PRF difference image offsets

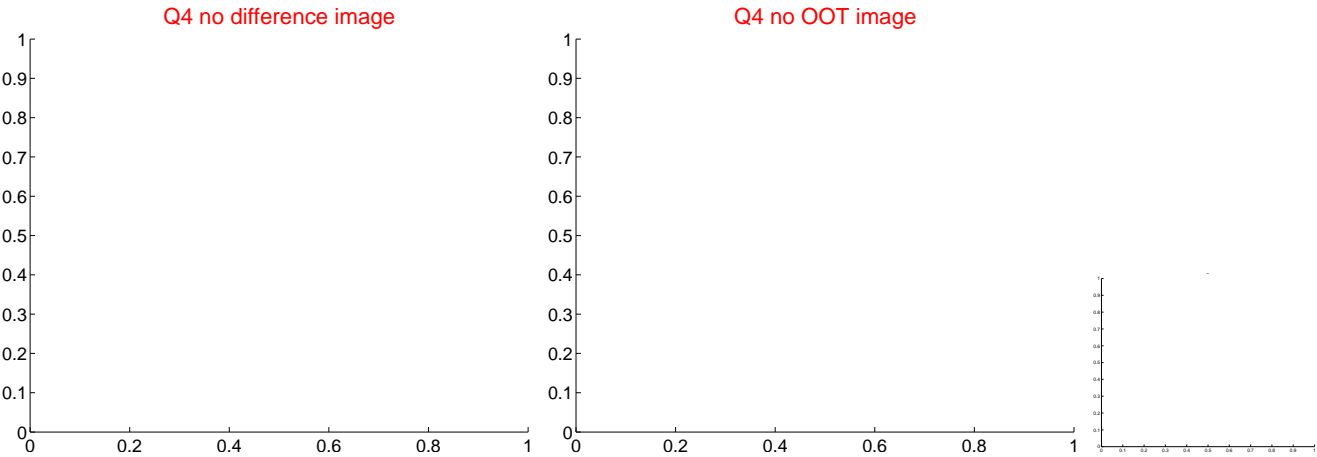
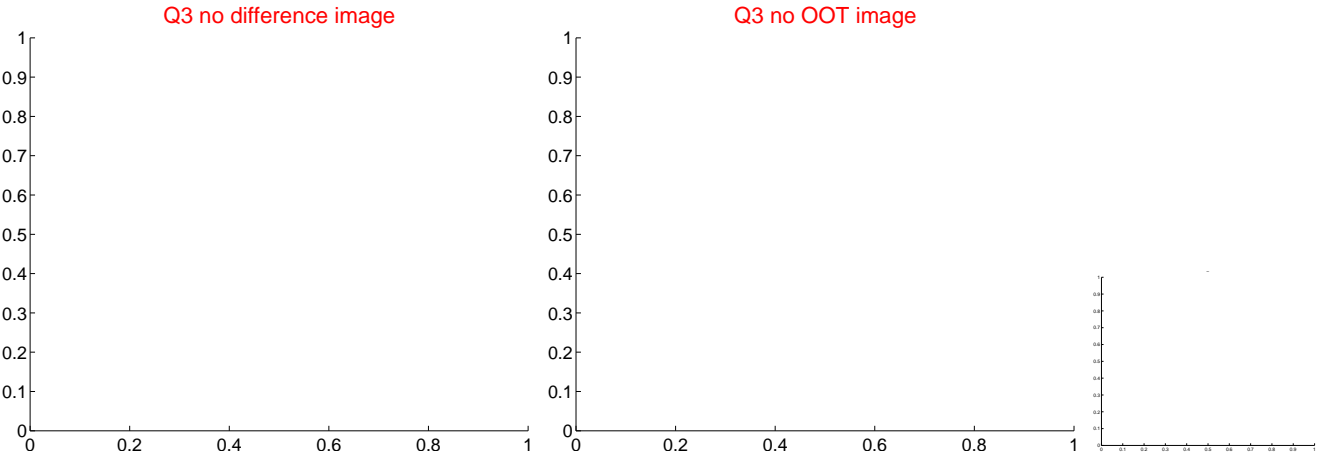
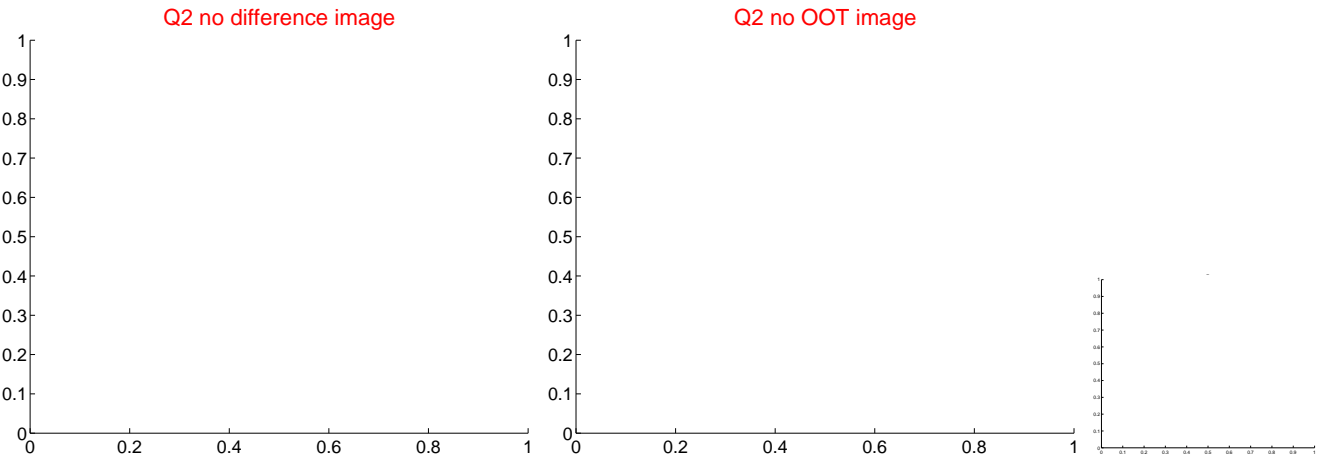
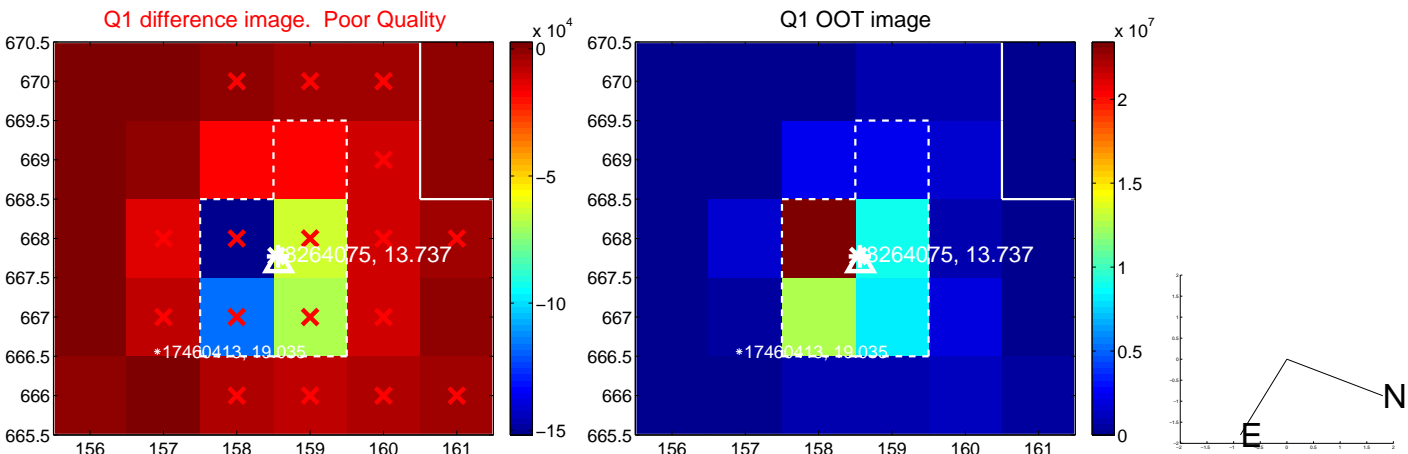
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.101 ± 0.163	0.62	-0.045 ± 0.115	0.091 ± 0.147
PRF-fit source offset from KIC position	0.142 ± 0.111	1.28	0.075 ± 0.105	0.120 ± 0.145
photometric centroid source offset	0.89 ± 0.31	2.85	0.89 ± 0.31	-0.04 ± 0.24

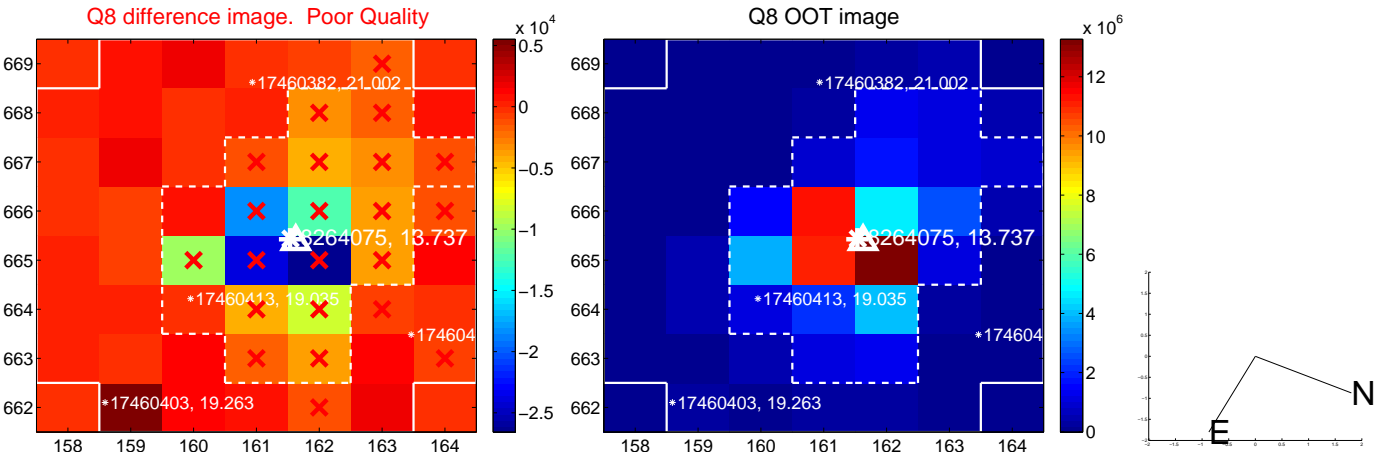
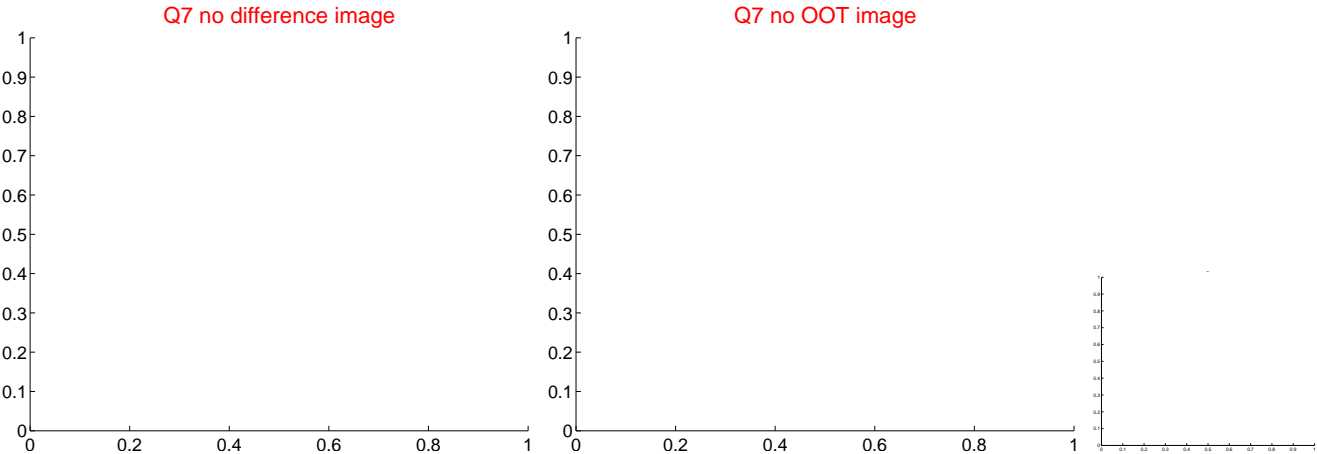
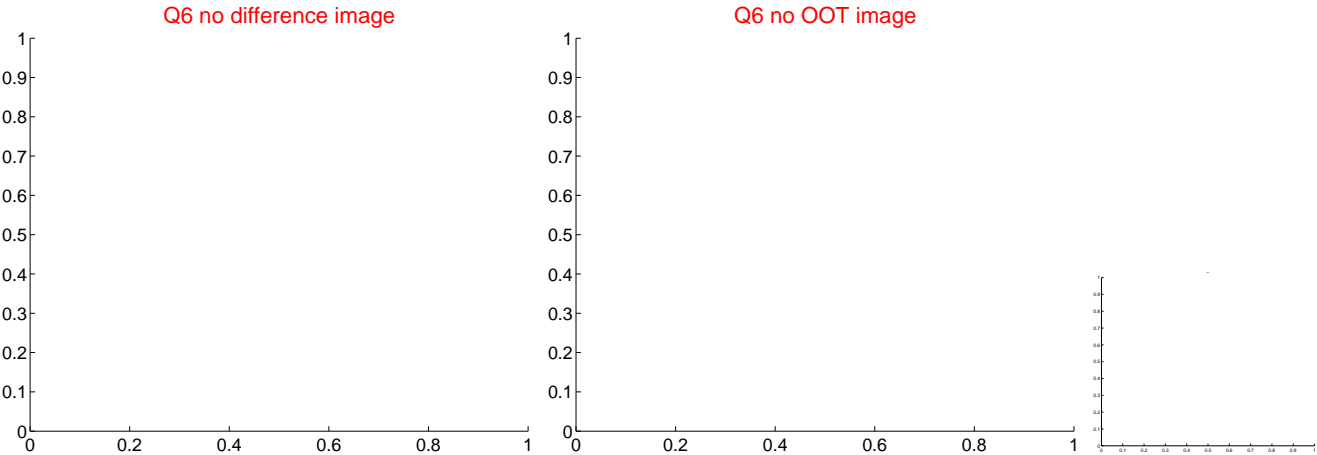
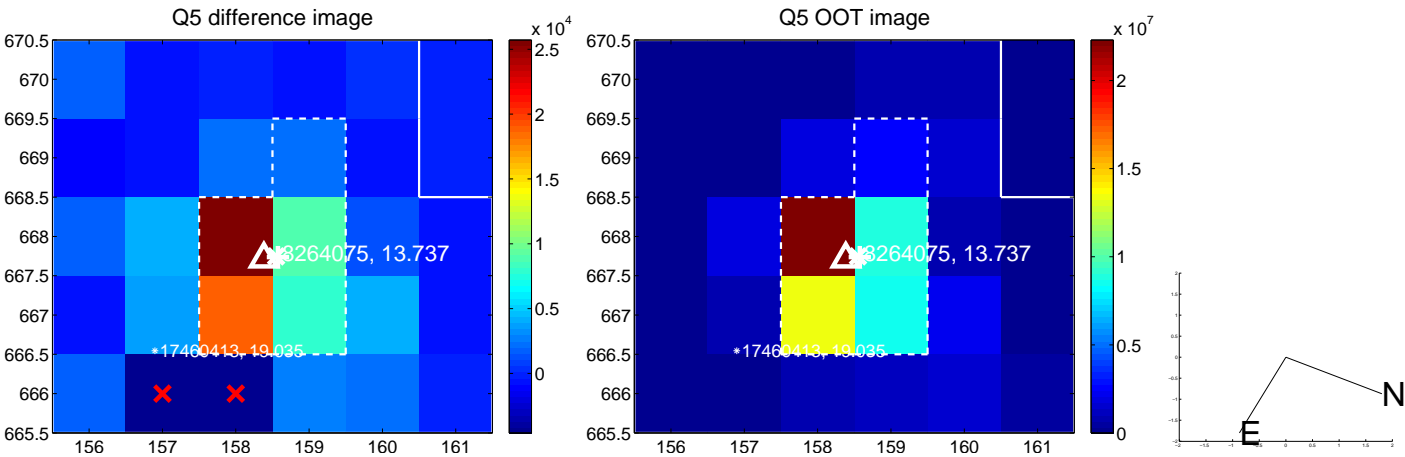


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

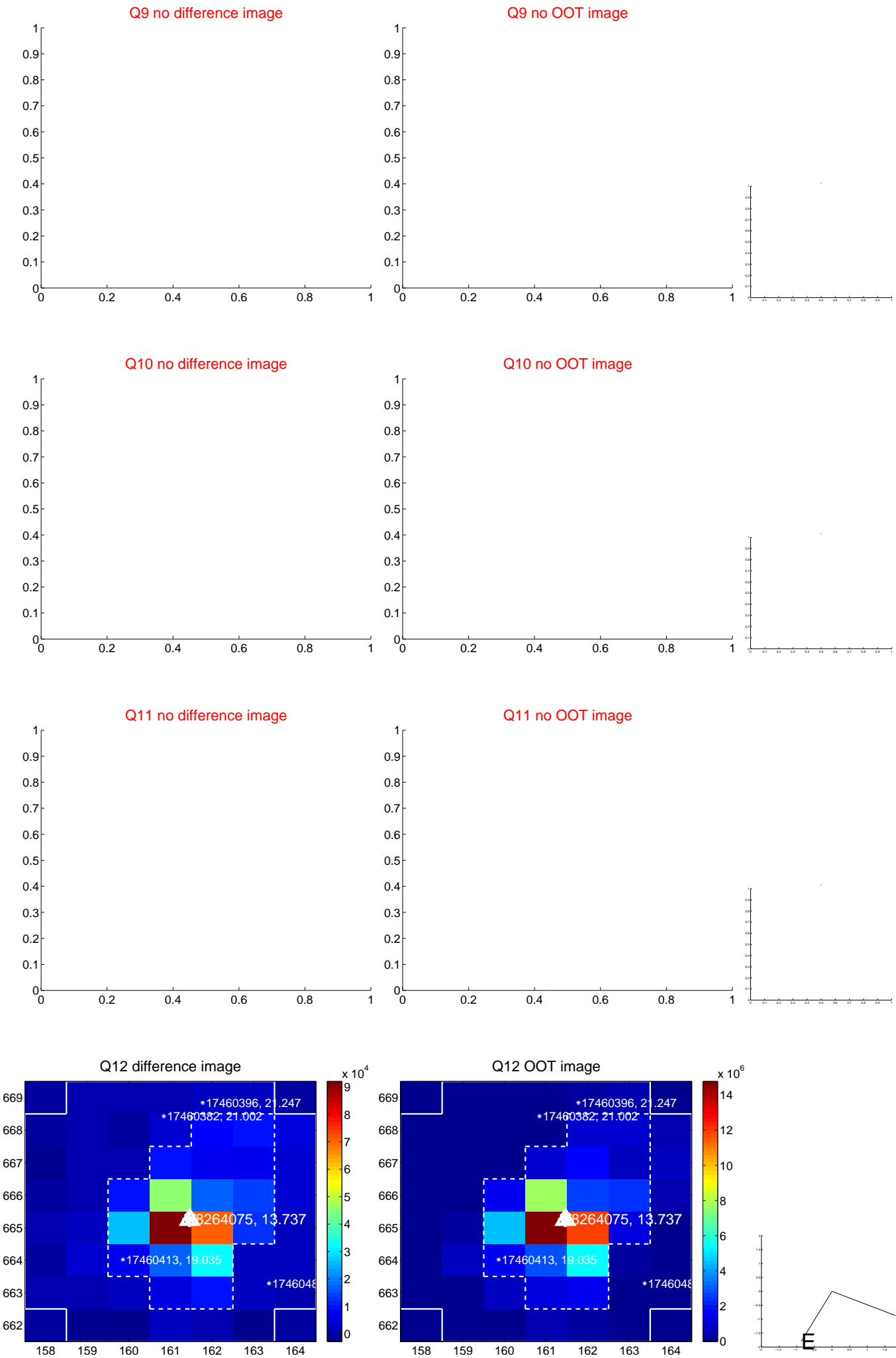
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



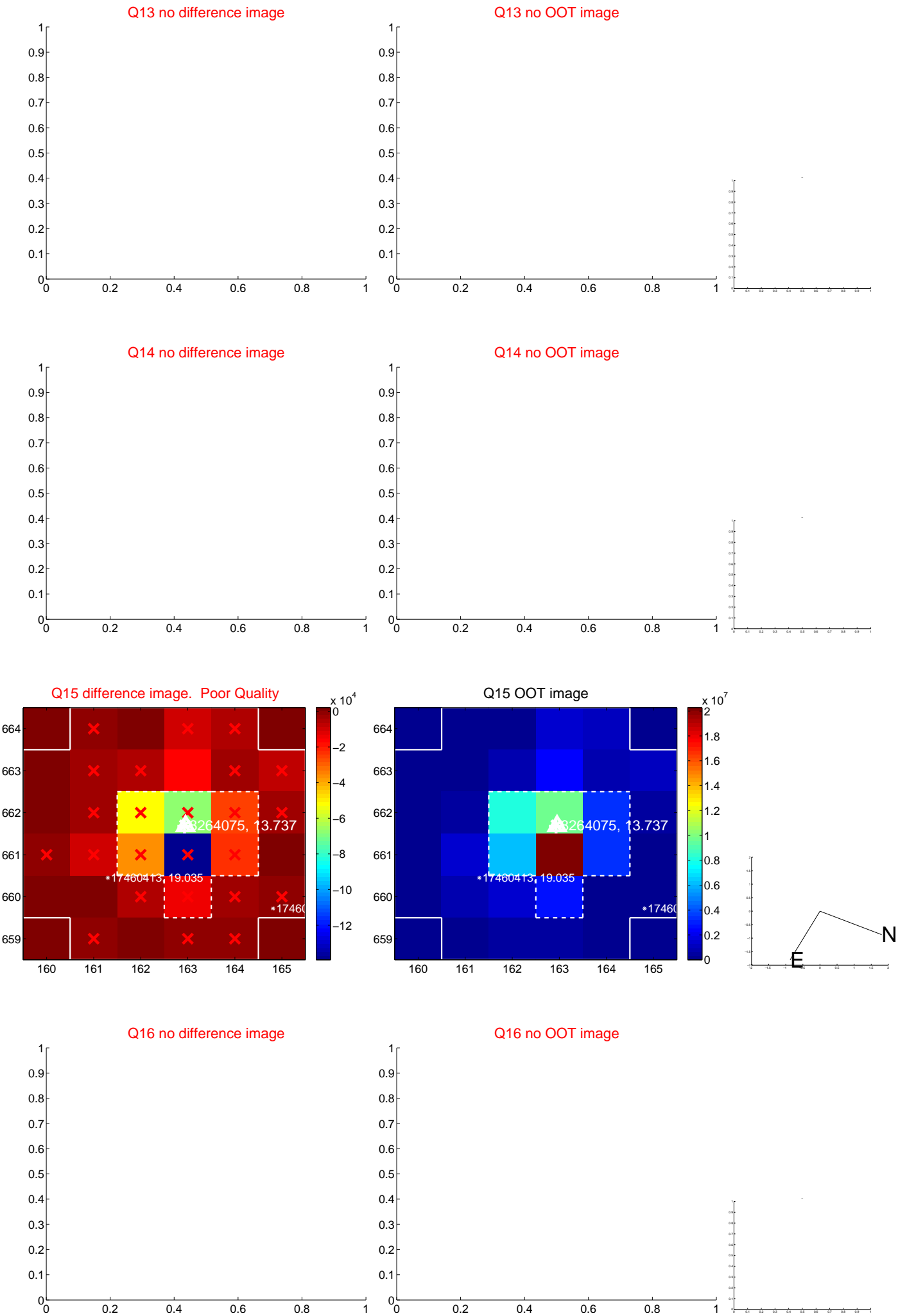
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



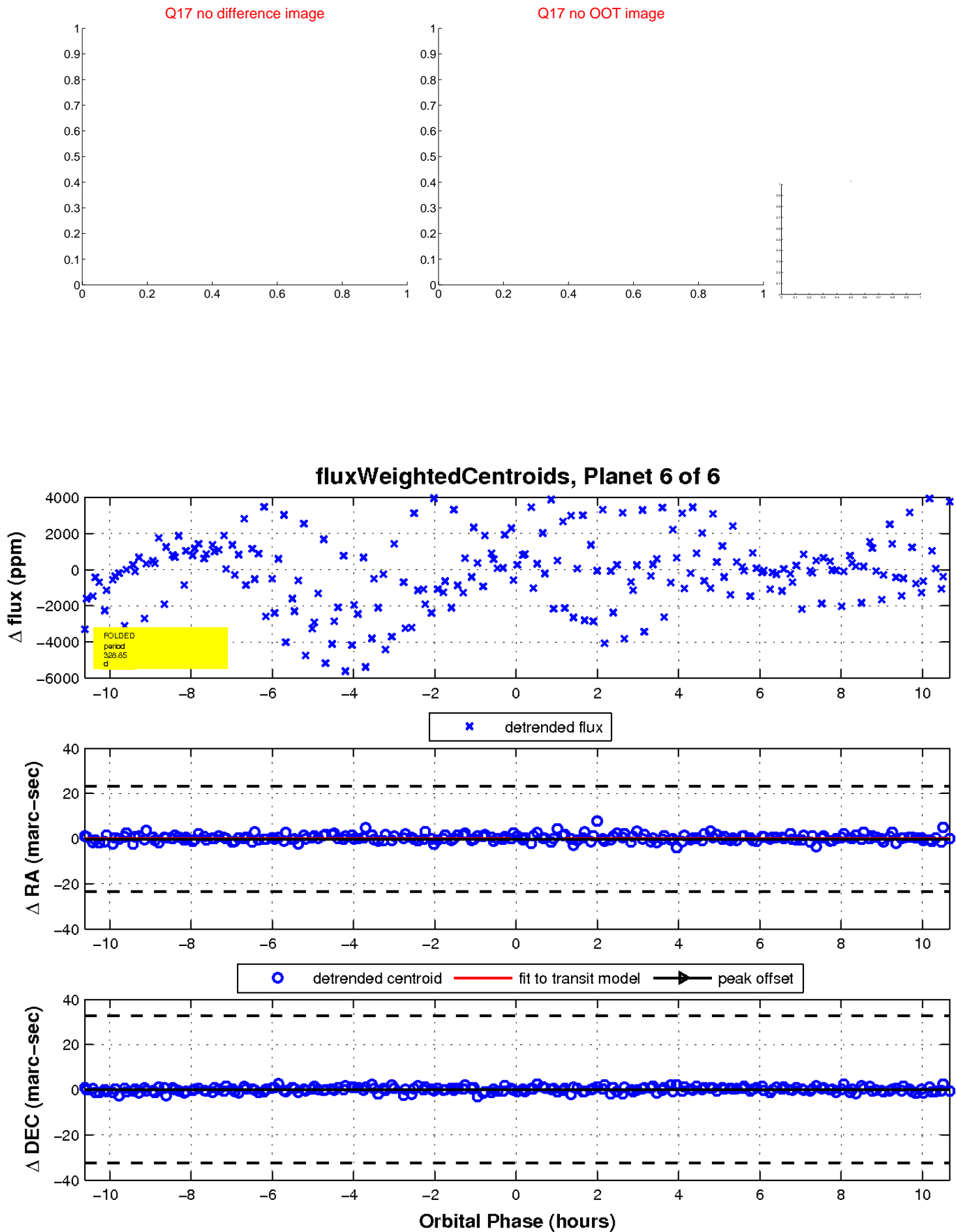
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

