

KIC 011285625

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})
011285625-01	OBS	7431.01	5.395283	131.539952	98050.3	7.866	399.3	499.1	2.80	7216	148.17	3726.03
011285625-02	OBS	No	154.807313	227.046430	6209.4	28.733	41.0	4.3	2.80	7216	24.15	42.42
011285625-03	OBS	No	400.078195	479.725860	417.2	3.000	45.6	-1.0	2.80	7216	5.79	11.96

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011285625-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_DV—DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_DV—MOD_ODDEVEN_ALT—DEEP_V_SHAPED—CENT_SATURATED
011285625-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
011285625-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED

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

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

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

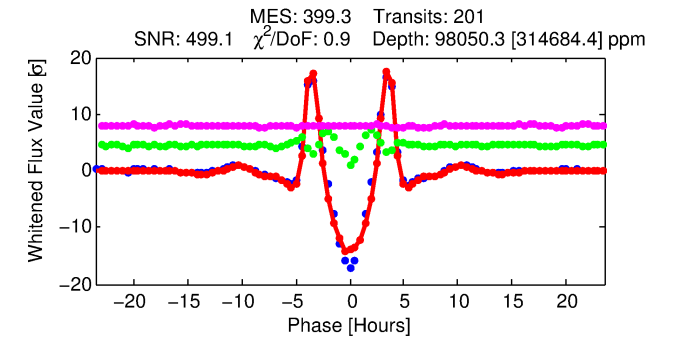
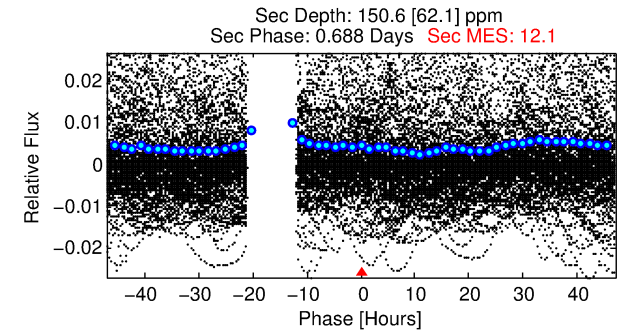
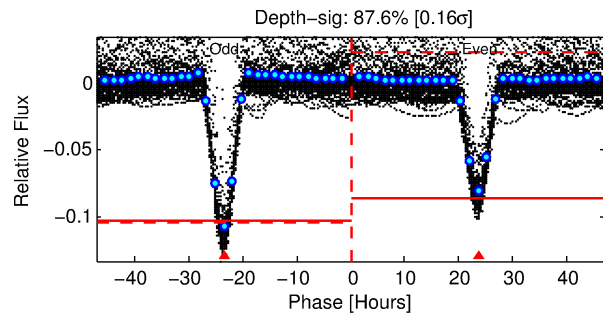
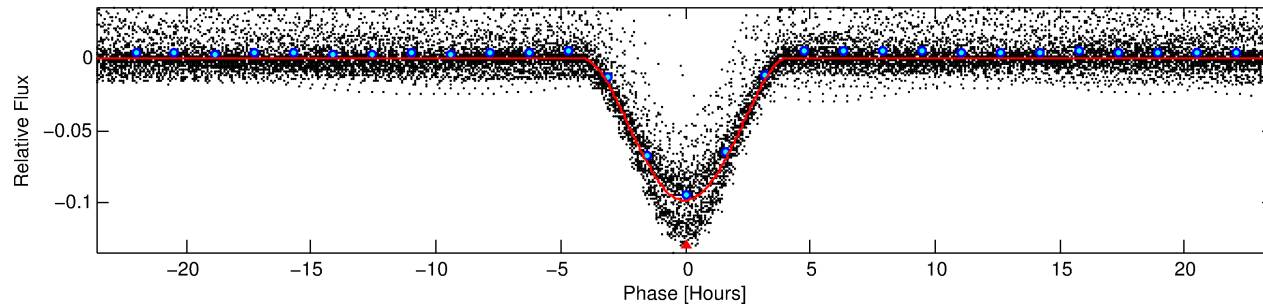
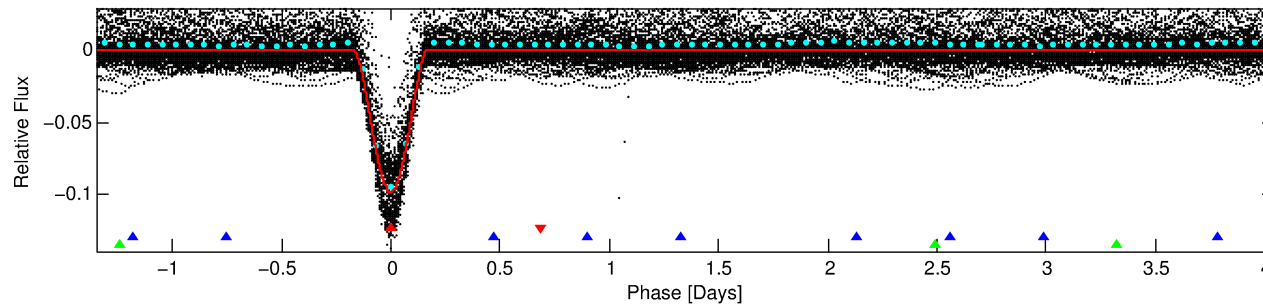
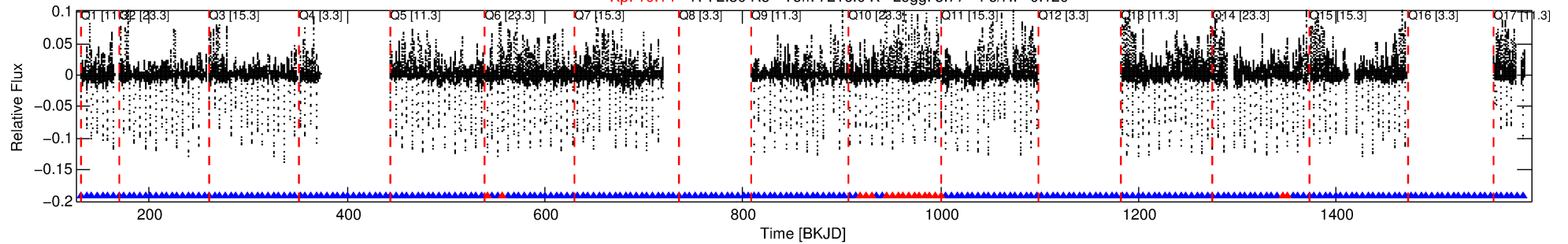
Ephemeris Match Information For 011285625-01

No Significant Match Found

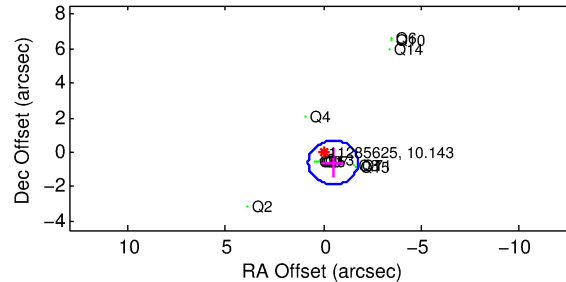
DV One-Page Summary

KIC: 11285625 Candidate: 1 of 3 Period: 5.395 d
KOI: K07431.01 Corr: 0.993

Kp: 10.14 R*: 2.80 Rs Teff: 7216.0 K Logg: 3.77 Fe/H: -0.120



Difference Image
Out of Transit Centroid Offsets



DV Fit Results:

Period = 5.39528 [0.00000] d
Epoch = 131.5400 [0.0001] BKJD
Rp/R* = 0.4842 [0.0534]
a/R* = 5.87 [0.06]
b = 1.00 [1.08]
Seff = 3726.03 [2530.13]
Teq = 1992 [338] K
Rp = 148.17 [64.82] Re
a = 0.0716 [0.0295] AU
Ag = 0.02 [0.02] [-62.39σ]
Teffp = 1149 [140] K [-2.30σ]

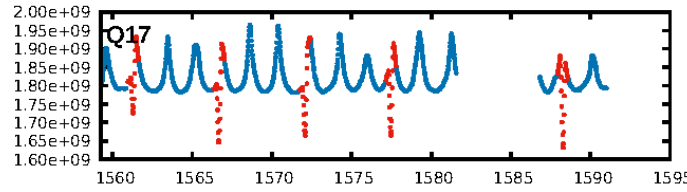
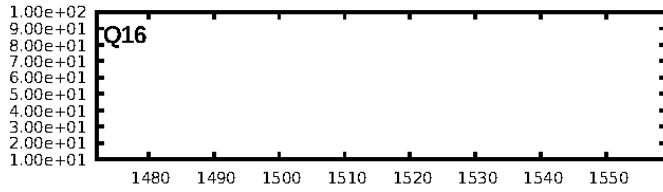
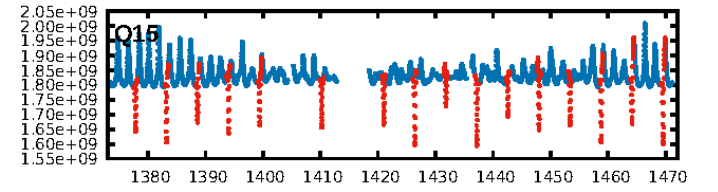
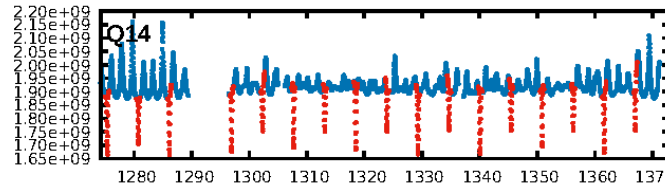
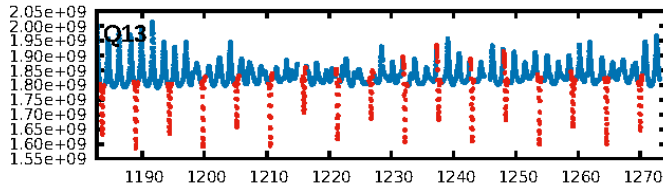
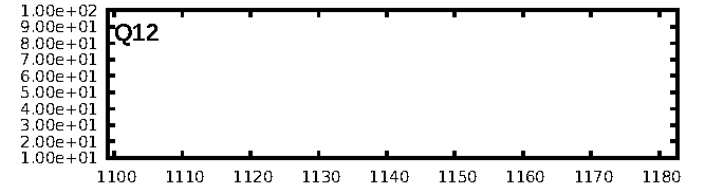
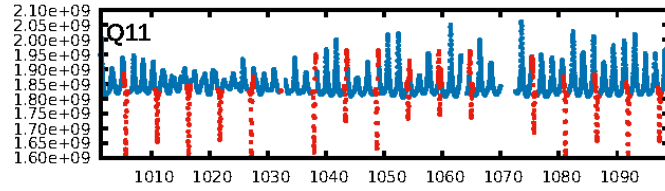
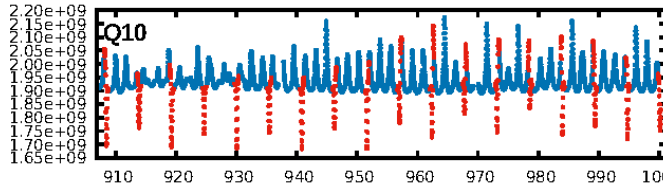
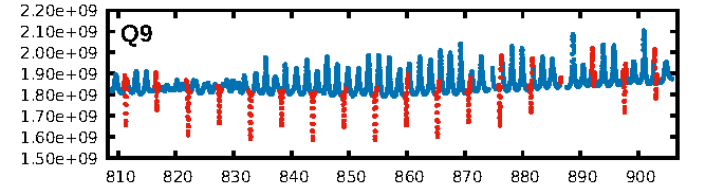
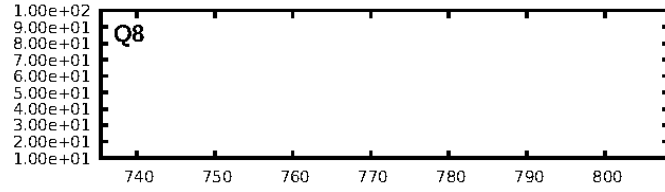
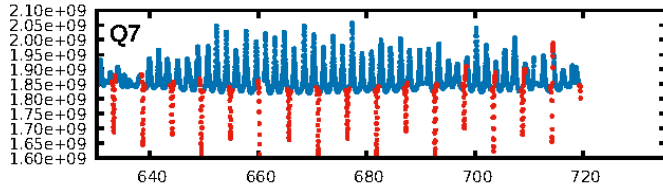
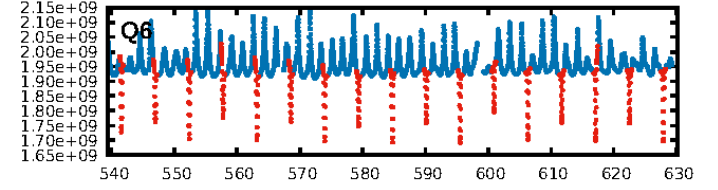
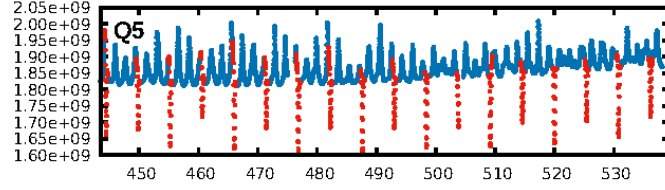
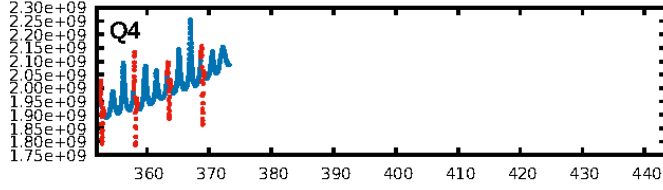
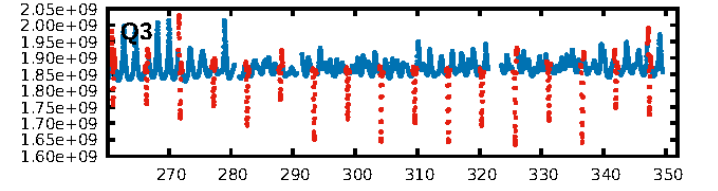
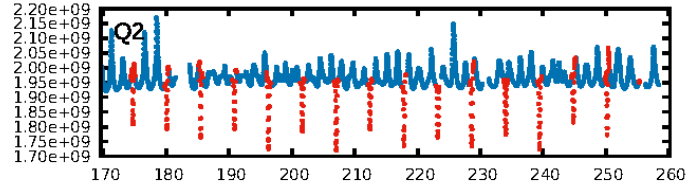
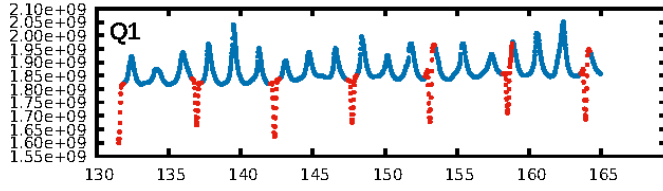
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [120.37σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.90 [167/185]
GhostDiagnostic-chr: N/A
Centroid-sig: 0.0%
Centroid-so: 1.446 arcsec [486.45σ]
OotOffset-rm: 0.778 arcsec [1.83σ]
KicOffset-rm: 2.294 arcsec [2.67σ]
OotOffset-st: 4/4/1/5 [14]
KicOffset-st: 4/4/1/5 [14]
DiffImageQuality-fgm: 0.00 [0/14]
DiffImageOverlap-fno: 1.00 [14/14]

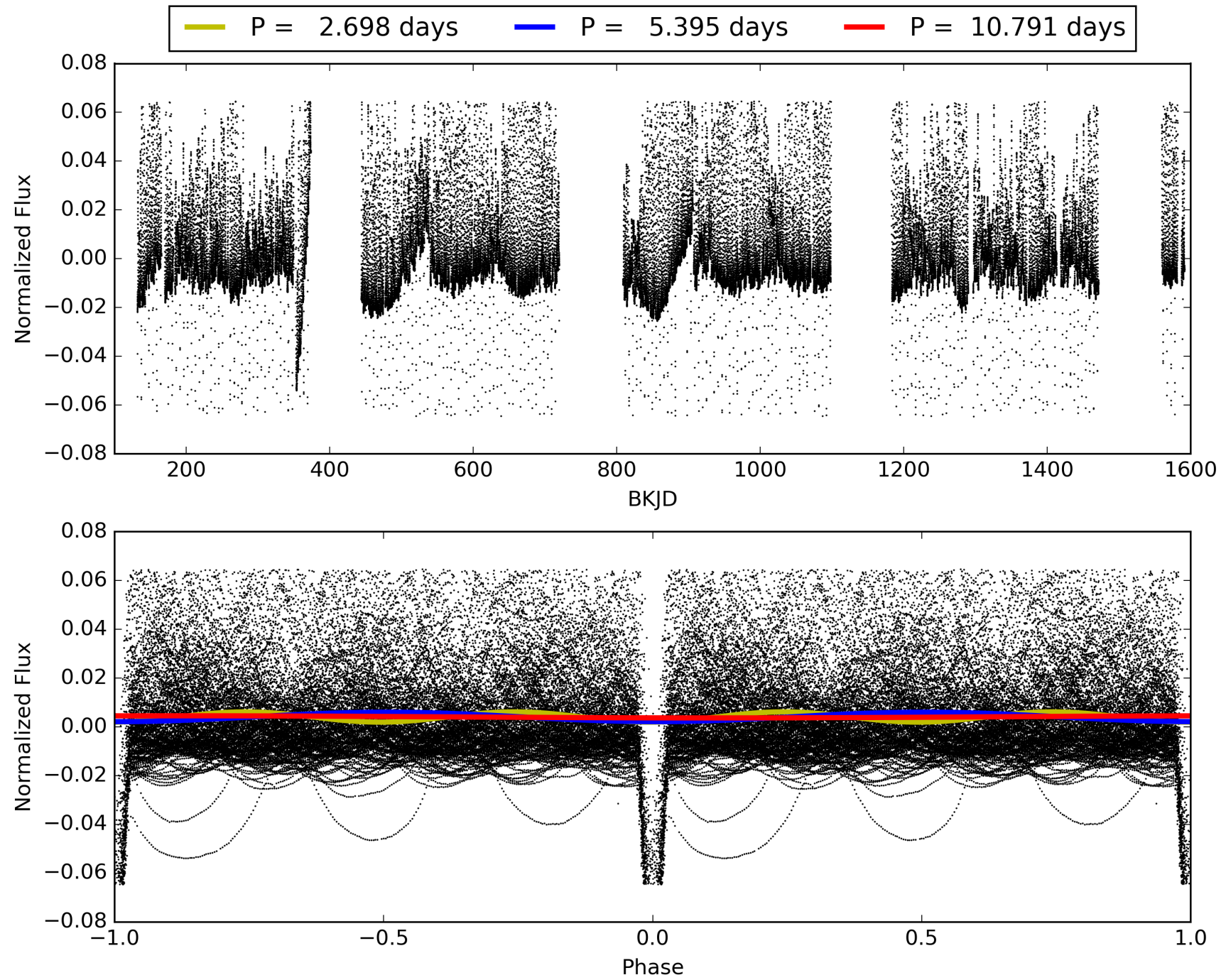
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 011285625-01, PDC Light Curves

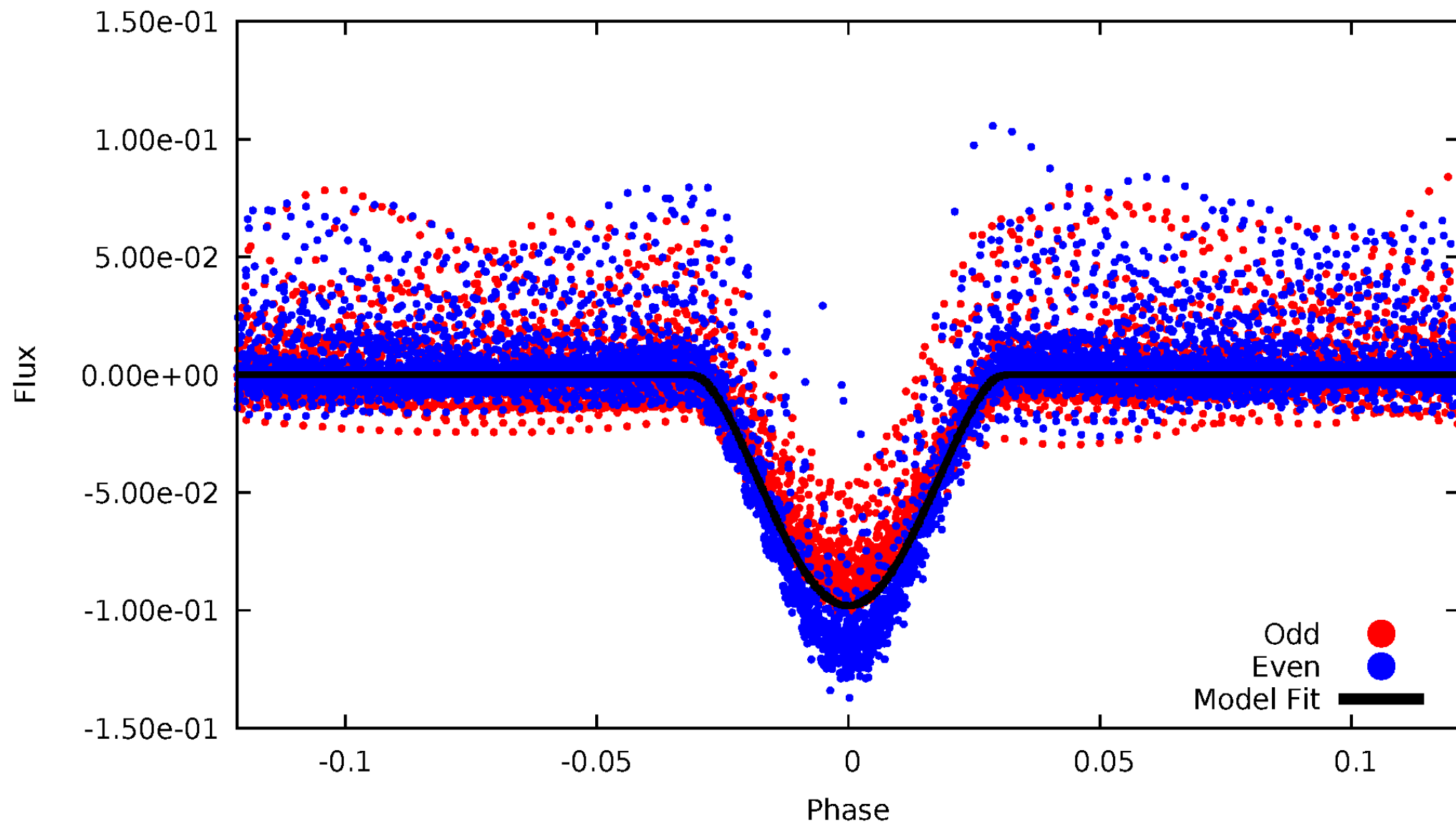


TCE 011285625-01



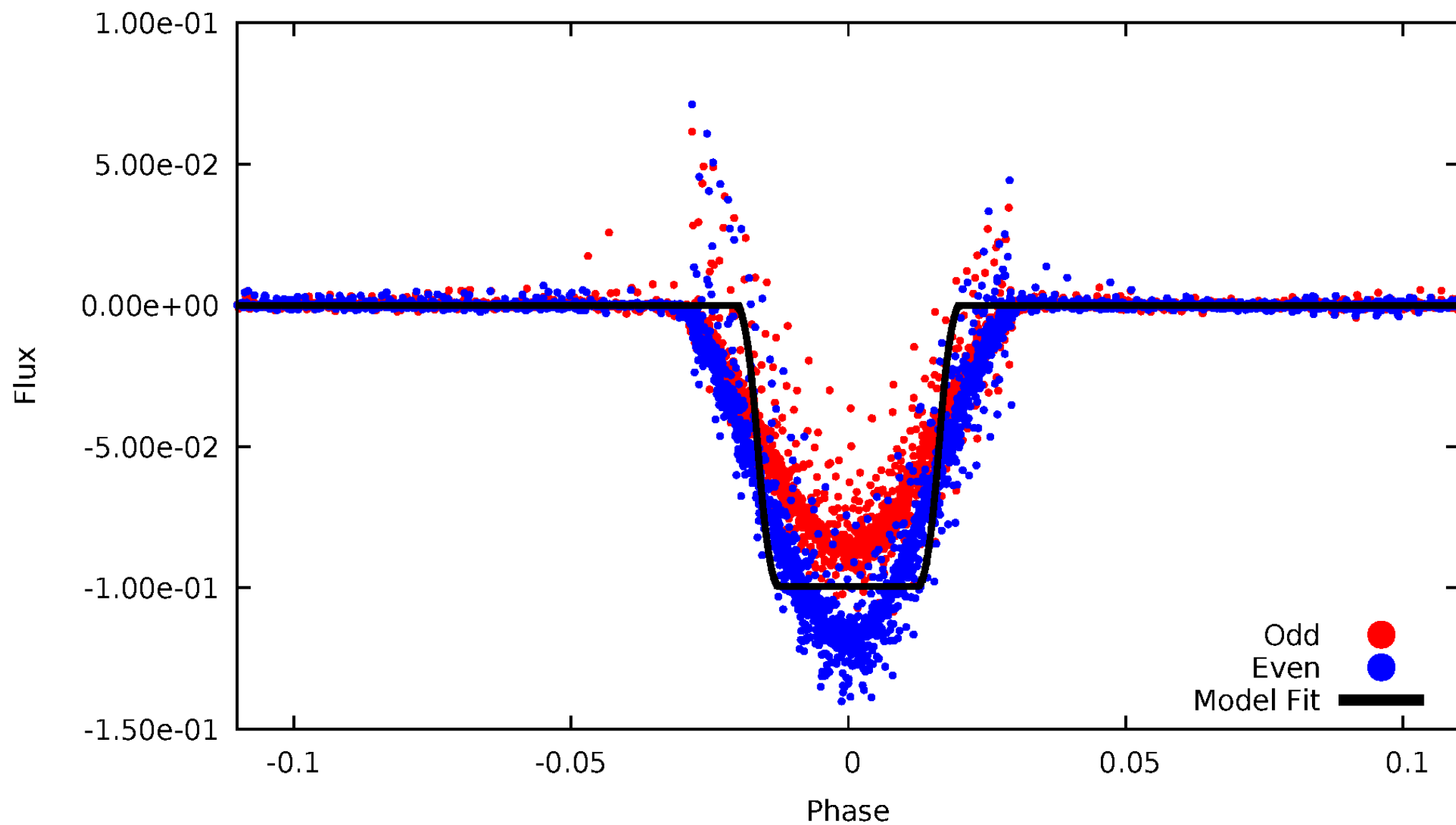
DV Odd/Even

TCE 011285625-01



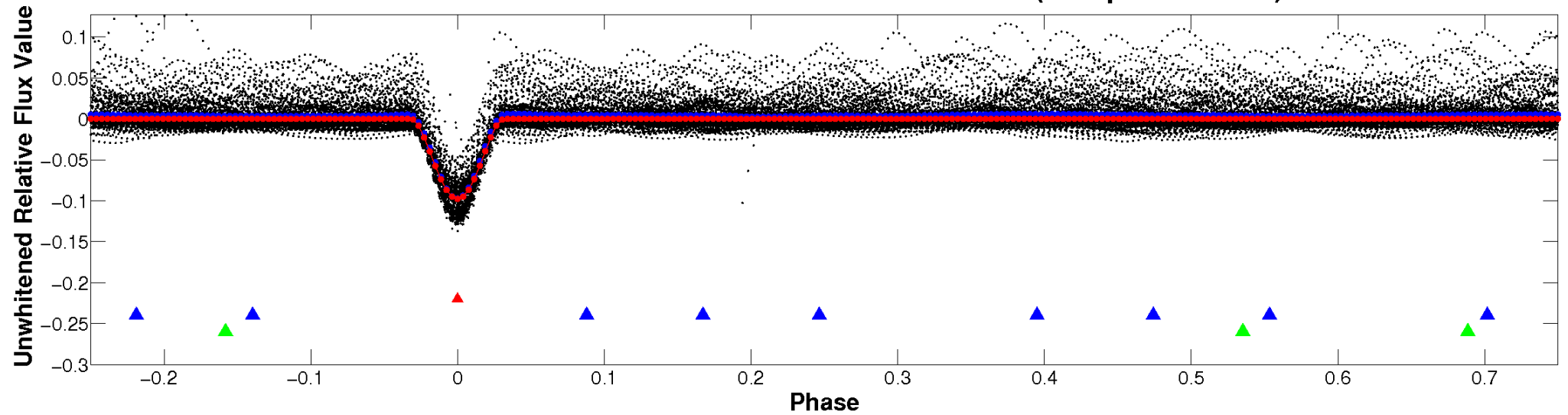
ALT Odd/Even

TCE 011285625-01

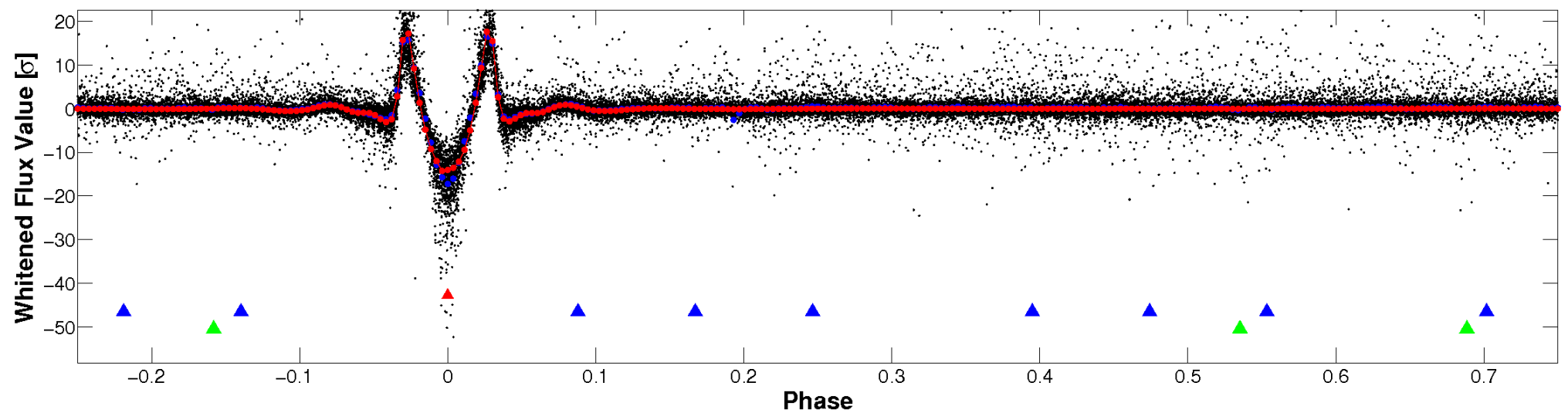


Non-Whitened Vs. Whitened Light Curve

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

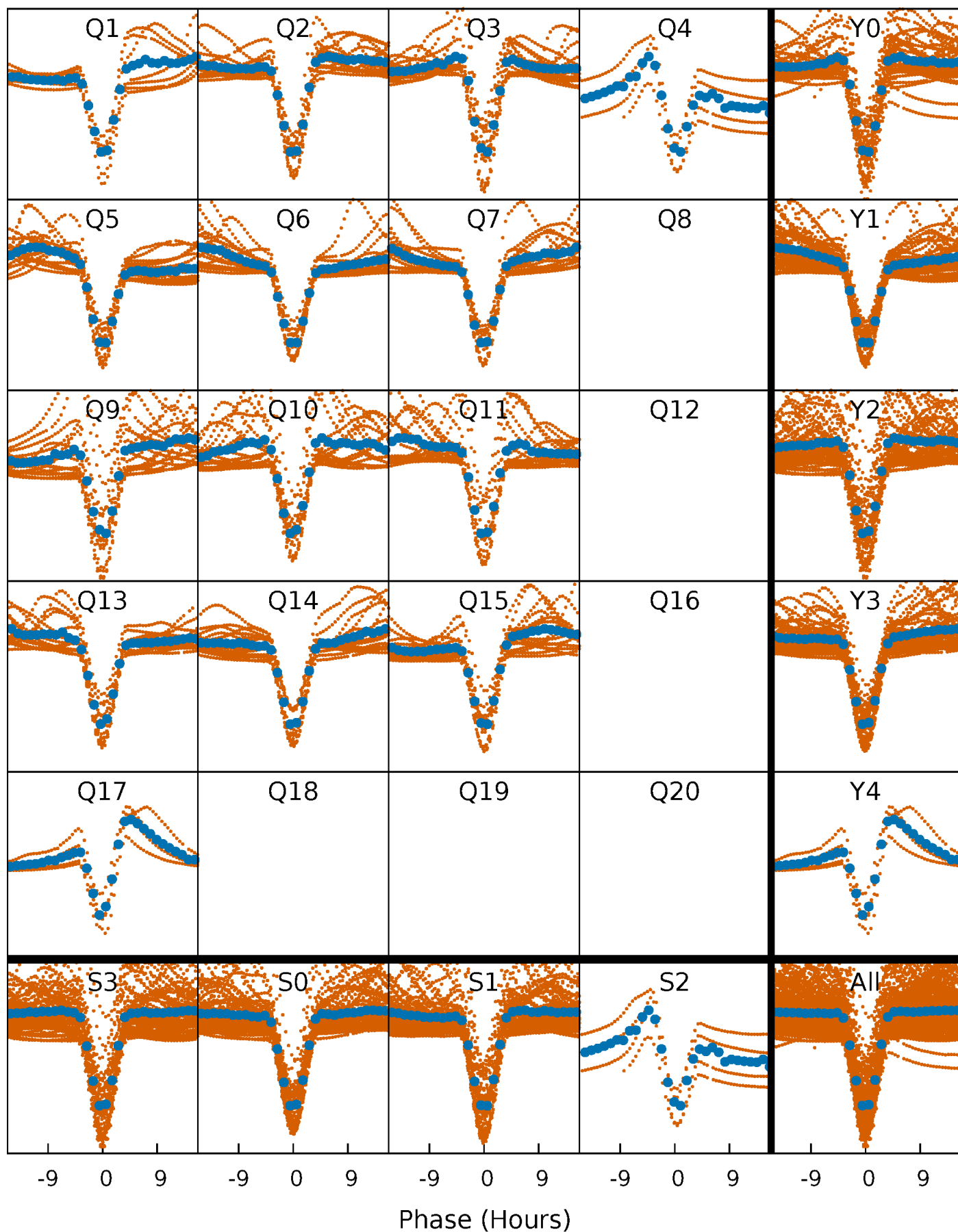


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



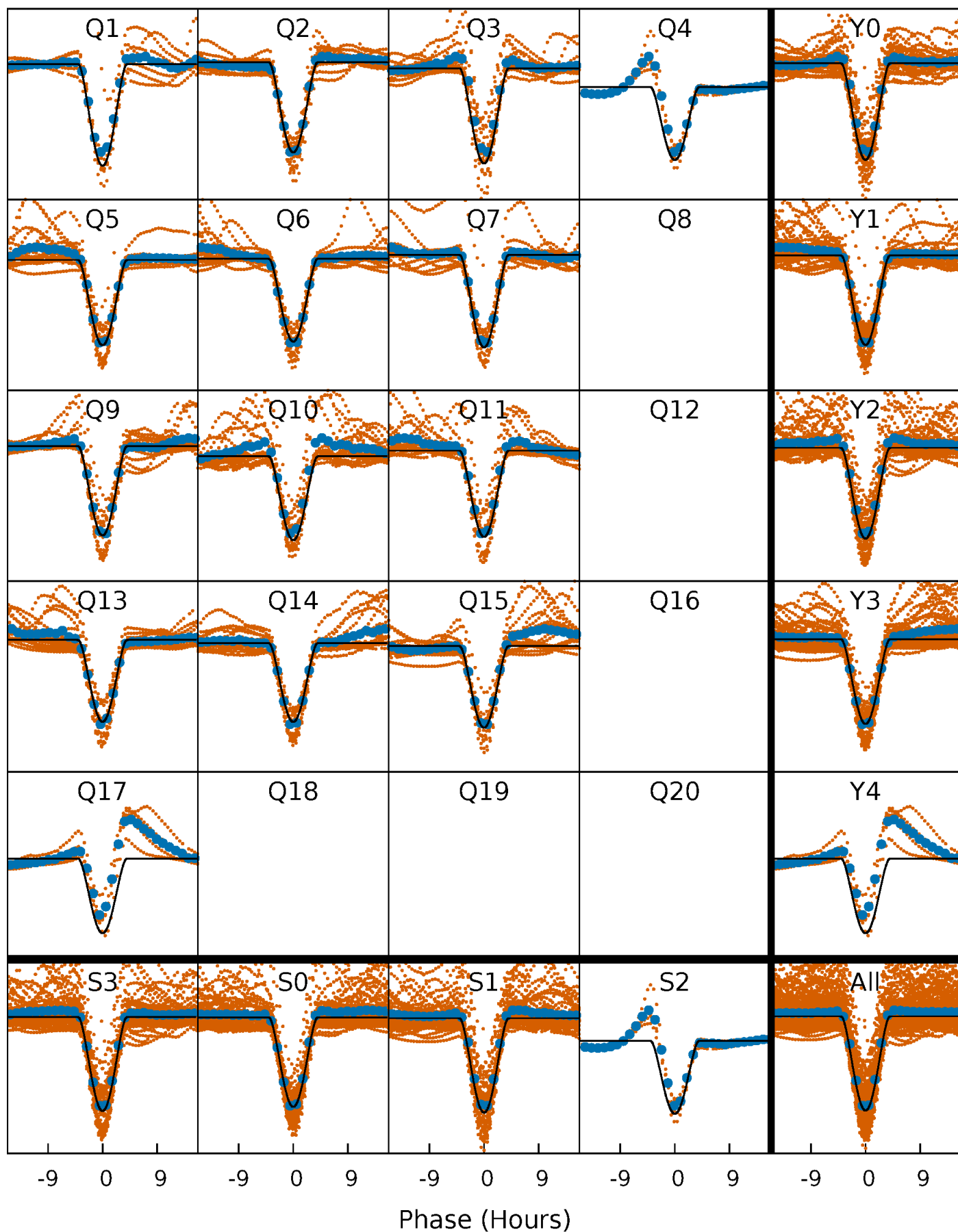
PDC Quarter-Phased Transit Curves

TCE 011285625-01 P= 5.395283 Days $T_0=131.539952$ (BKJD)



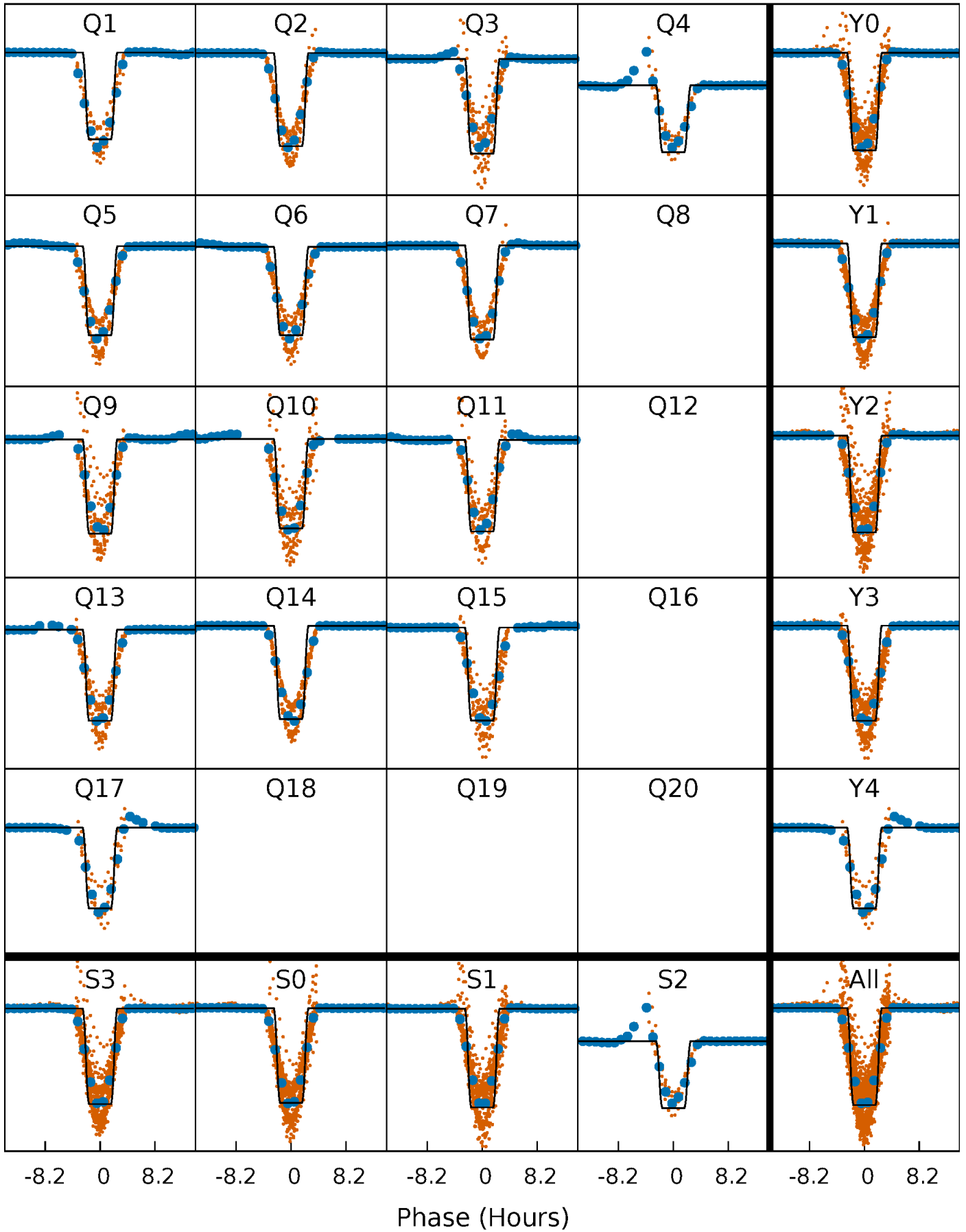
DV Quarter-Phased Transit Curves

TCE 011285625-01 P= 5.395283 Days $T_0=131.539952$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

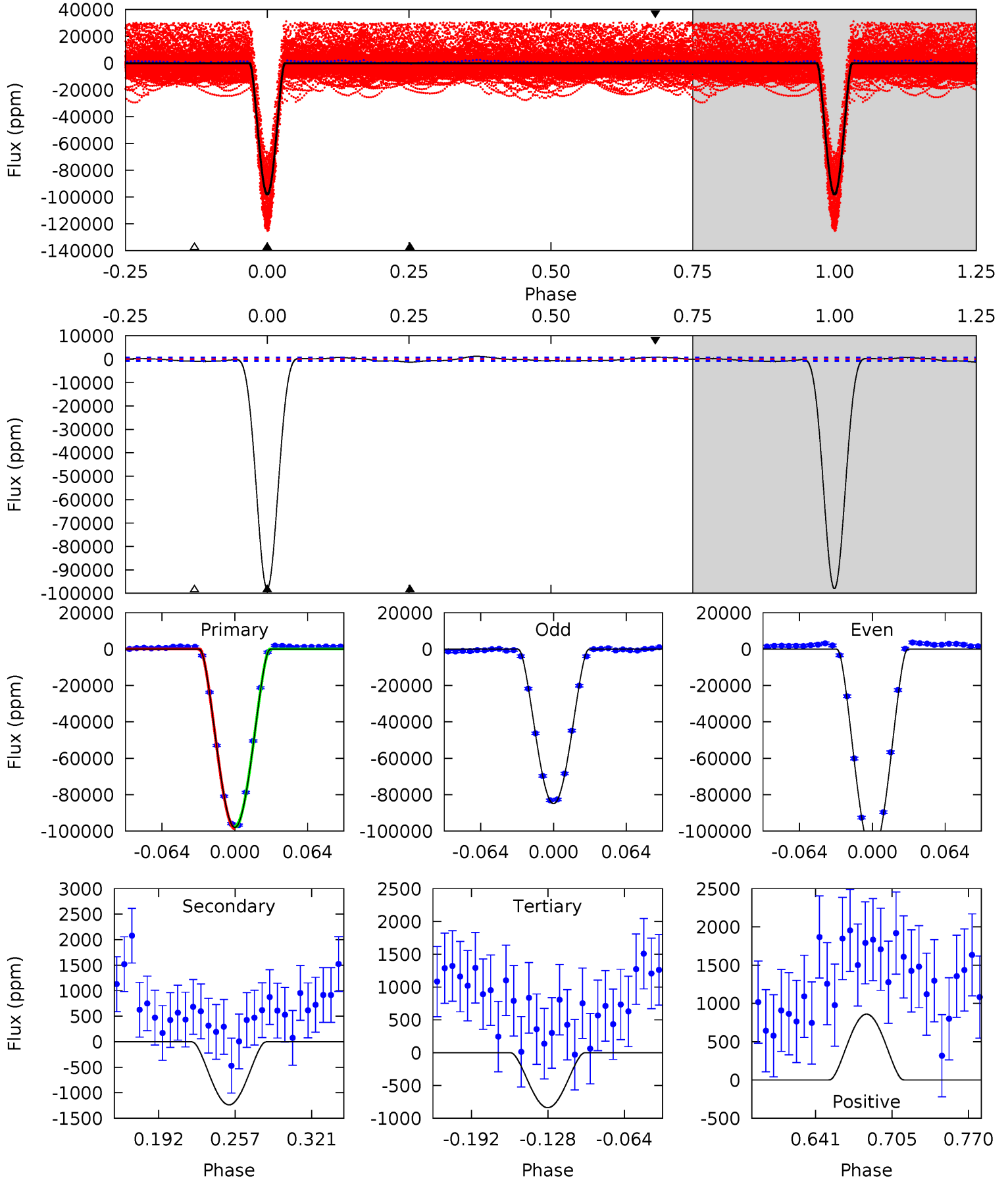
TCE 011285625-01 P= 5.395211 Days $T_0=131.549149$ (BKJD)



DV Model-Shift Uniqueness Test

011285625-01, P = 5.395283 Days, E = 126.144669 Days

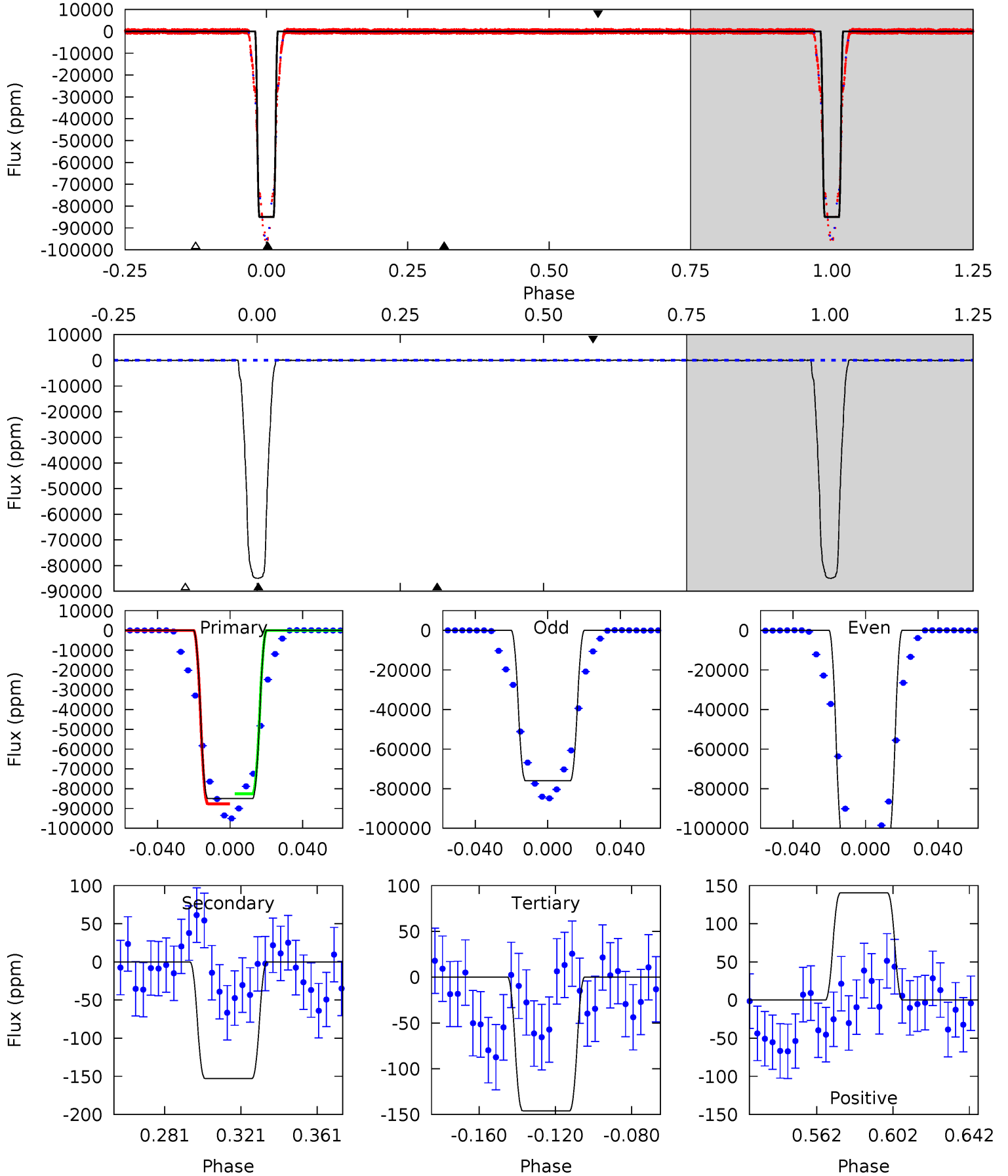
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
614.2	7.75	5.25	5.40	4.66	1.85	3.61	608.9	608.8	2.50	2.36	88.0	0.99	0.01	2.72



Alt Model-Shift Uniqueness Test

011285625-01, P = 5.395211 Days, E = 126.153938 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2550	4.59	4.38	4.22	4.75	2.05	1.49	2545	2545	0.21	0.37	850.0	1.01	0.00	0



Stellar Parameters For KIC 011285625

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7216^{+201}_{-251}	$3.768^{+0.392}_{-0.098}$	$-0.120^{+0.250}_{-0.350}$	$2.804^{+0.509}_{-1.187}$	$1.682^{+0.186}_{-0.345}$	$0.107^{+0.369}_{-0.033}$
	+3%/-3%	+10%/-3%	+208%/-292%	+18%/-42%	+11%/-21%	+343%/-31%
Source	PHO1	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 011285625-01 / KOI 7431.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1237 ± 160	$138.22^{+29.50}_{-33.37}$	2696^{+187}_{-294}	-2562^{+4235}_{-206}	$0.181^{+0.122}_{-0.055}$
Alt.	-153 ± 33	$88.94^{+22.18}_{-21.78}$	2700^{+188}_{-298}	-2819^{+225}_{-129}	$0.053^{+0.045}_{-0.022}$

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 $A_{obs} \gg 1.0$

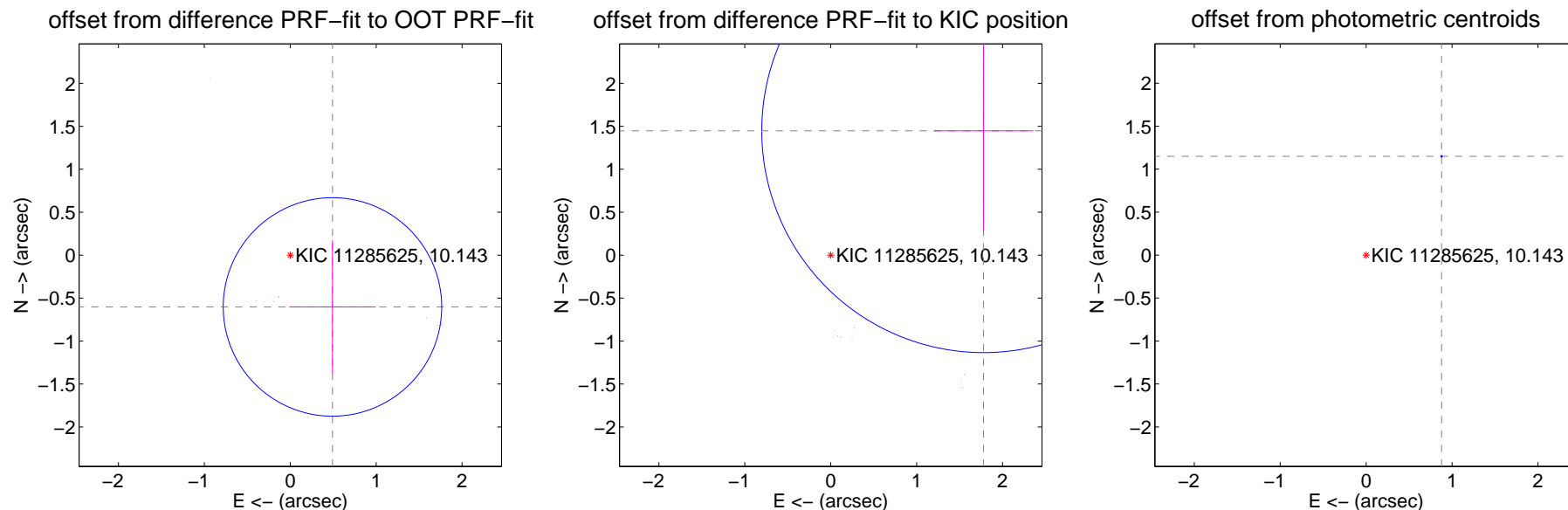
DV Centroid Data

Supplemental centroid analysis for 011285625-01. **Kepler magnitude: 10.14.** Transit SNR 499.08

There are 0 quarters with good PRF difference image offsets

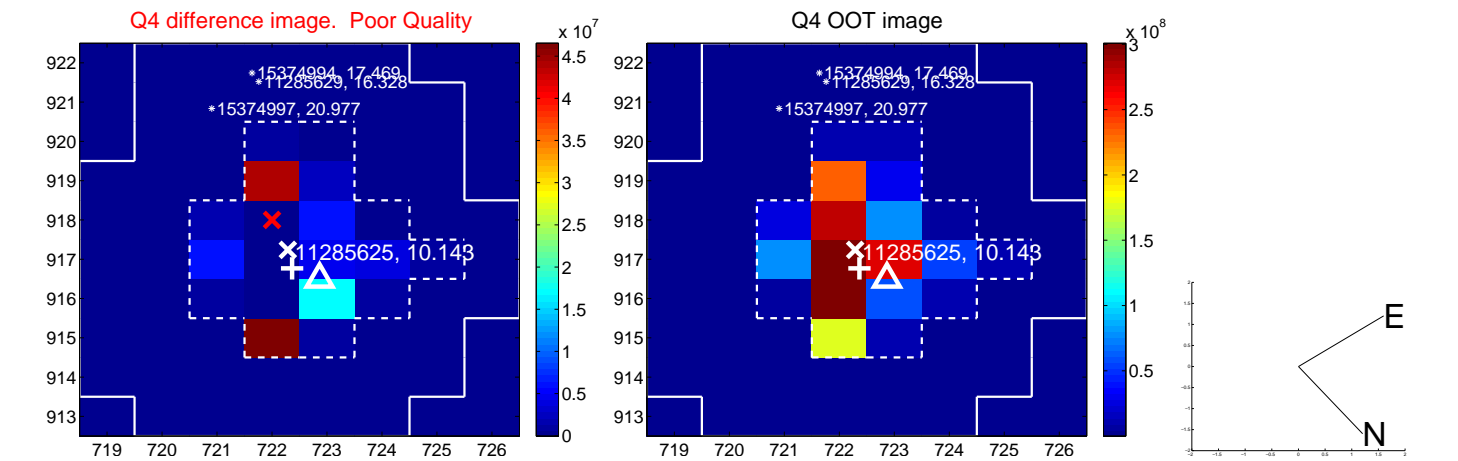
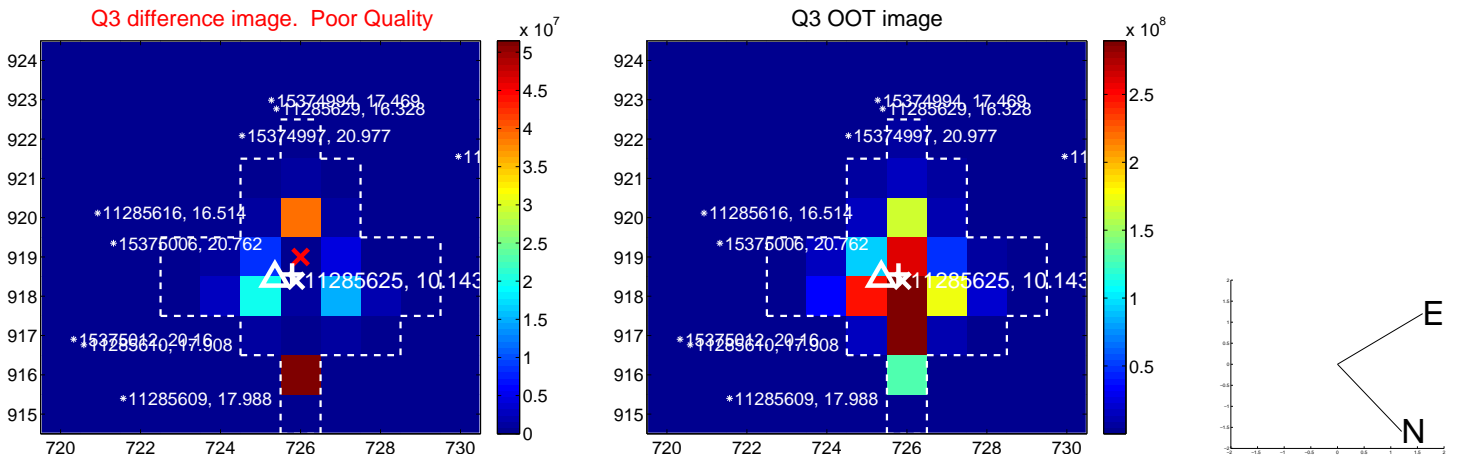
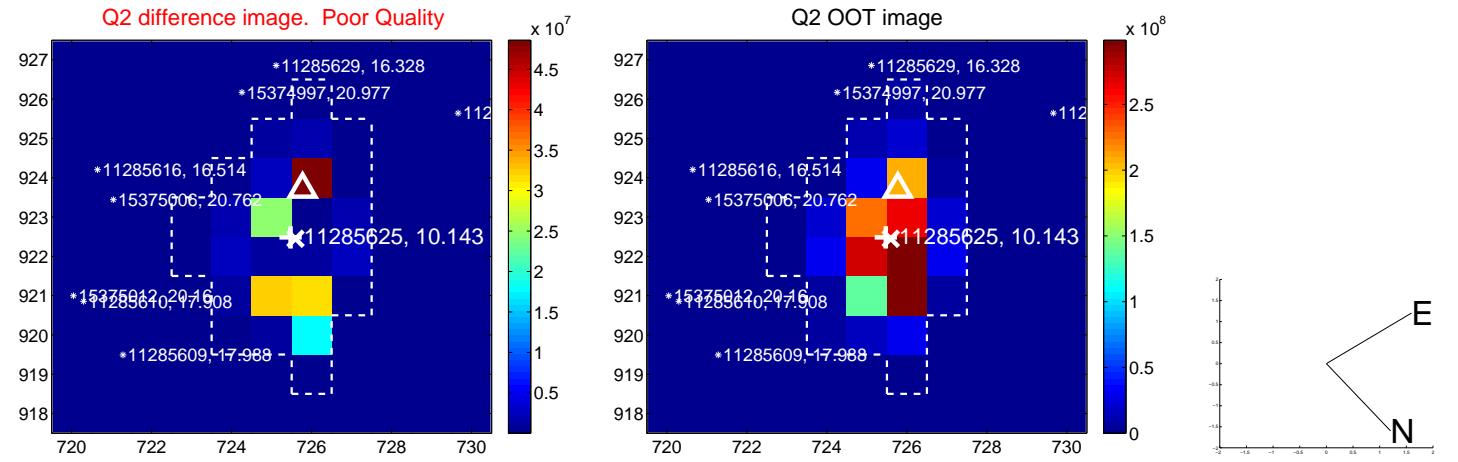
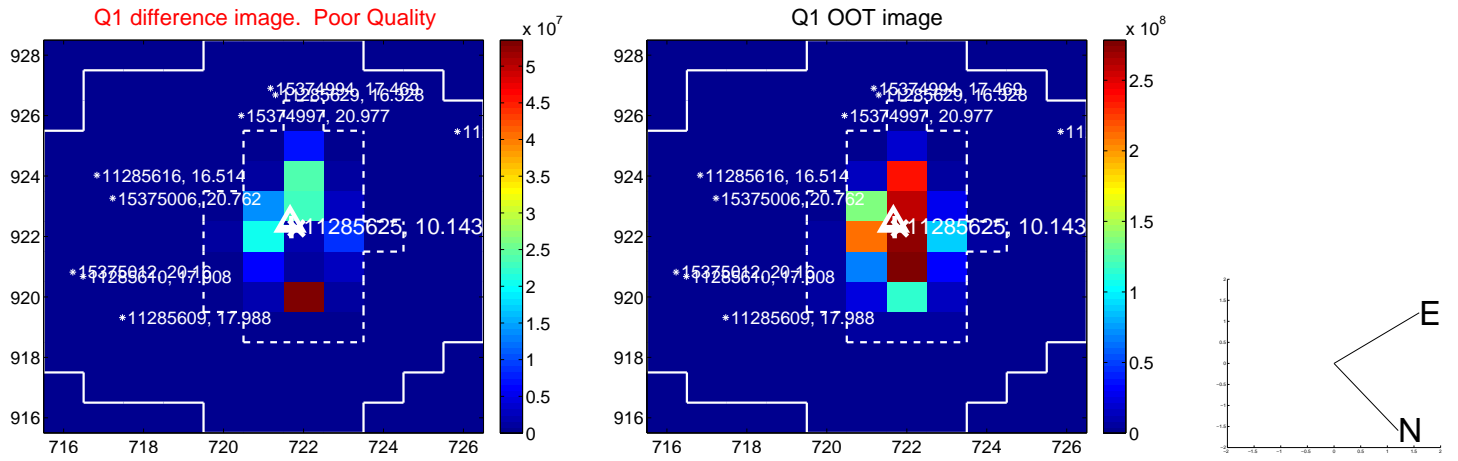
The direct PRF centroid is offset from the target star catalog position by about 0.56 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.778 ± 0.424	1.83	-0.491 ± 0.503	-0.603 ± 0.775
PRF-fit source offset from KIC position	2.294 ± 0.861	2.67	-1.779 ± 0.580	1.448 ± 1.163
photometric centroid source offset	1.45 ± 0.00	486.45	-0.88 ± 0.00	1.15 ± 0.00

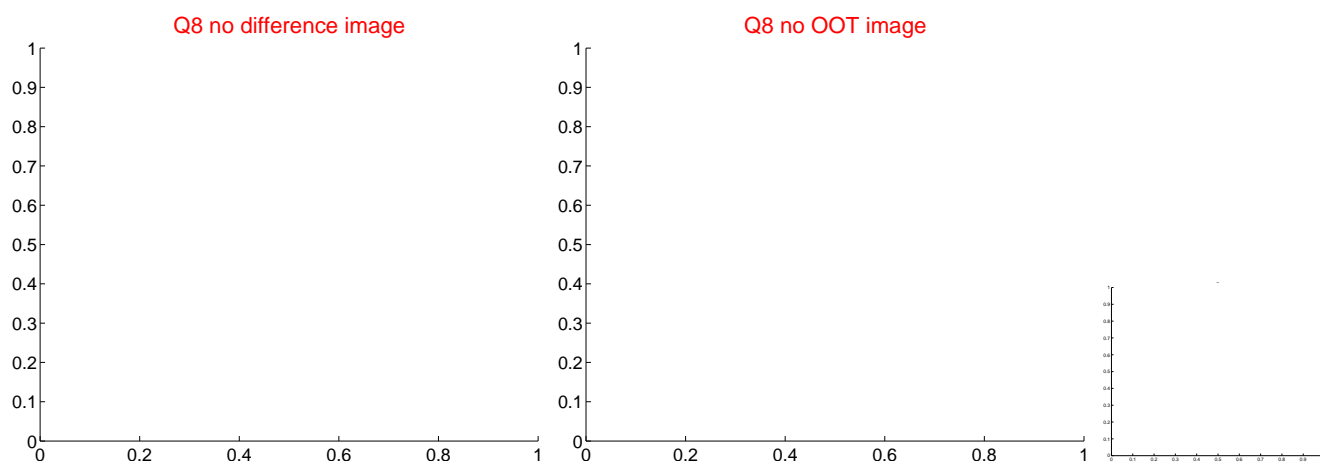
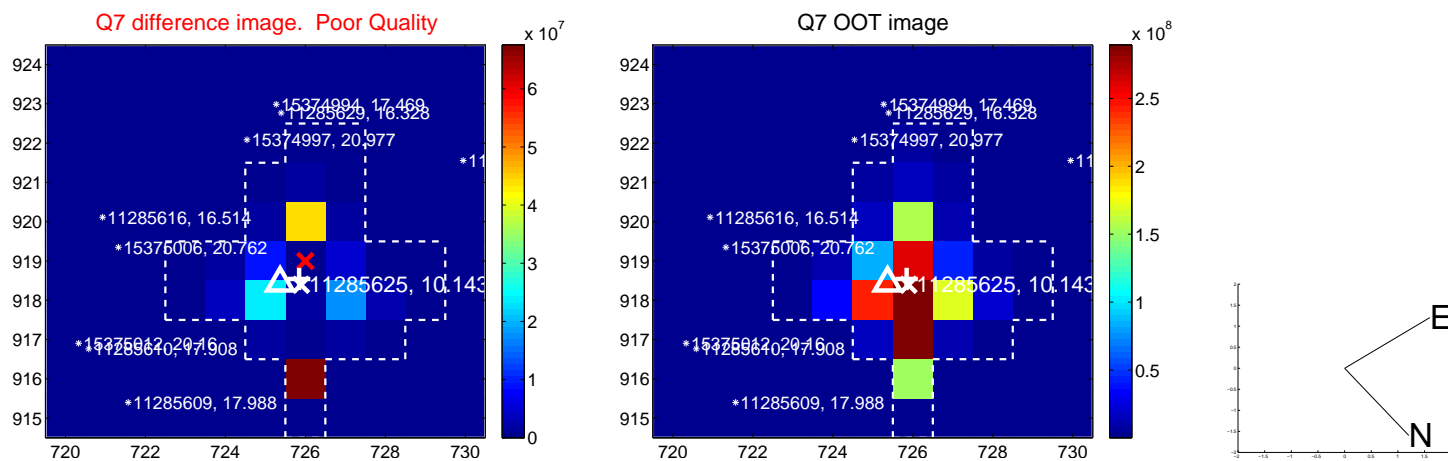
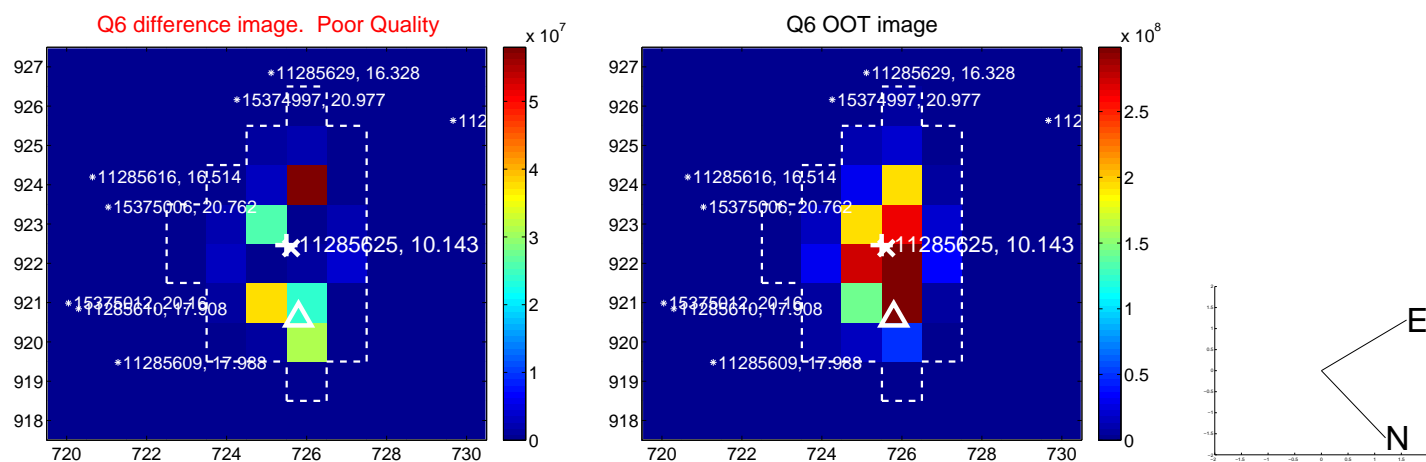
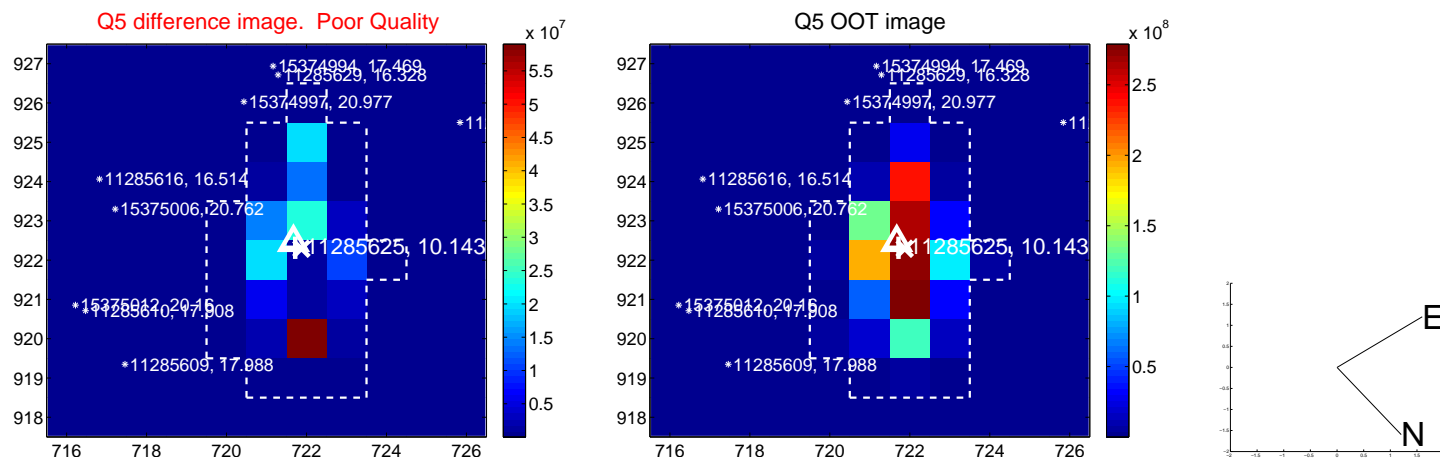


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

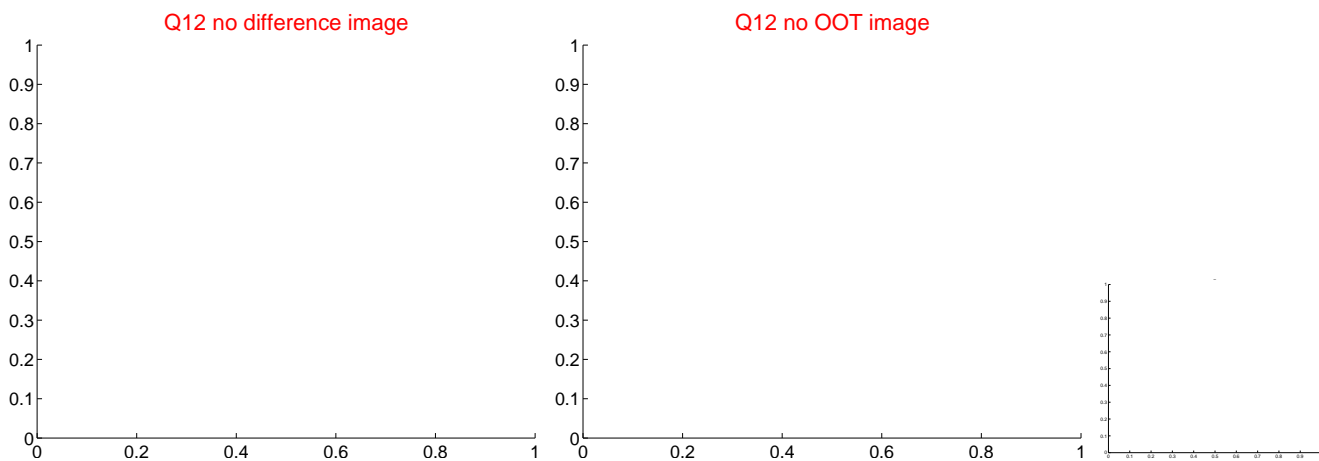
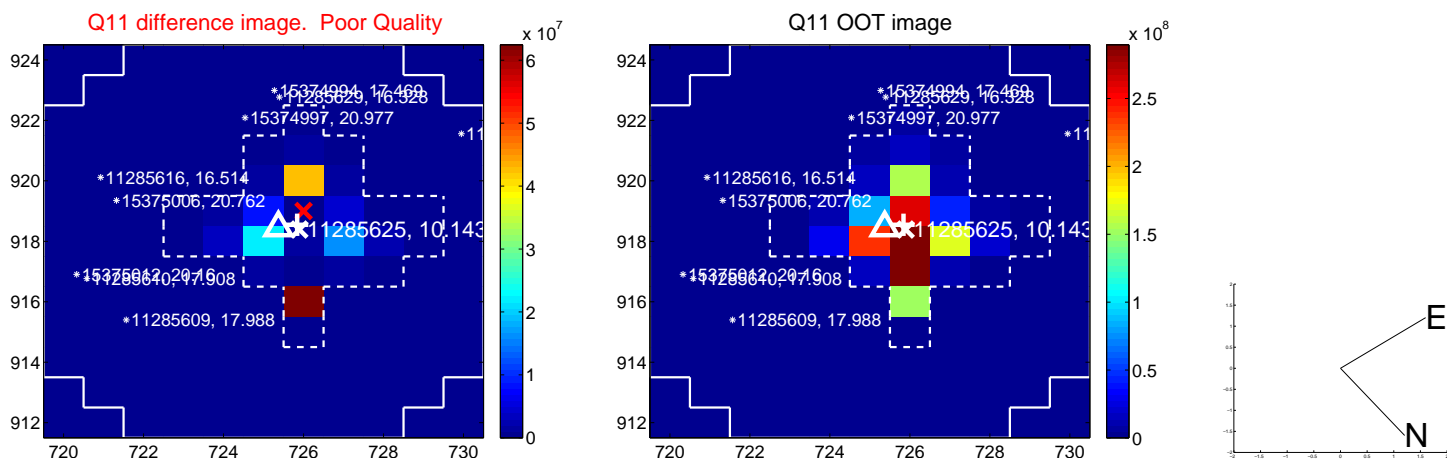
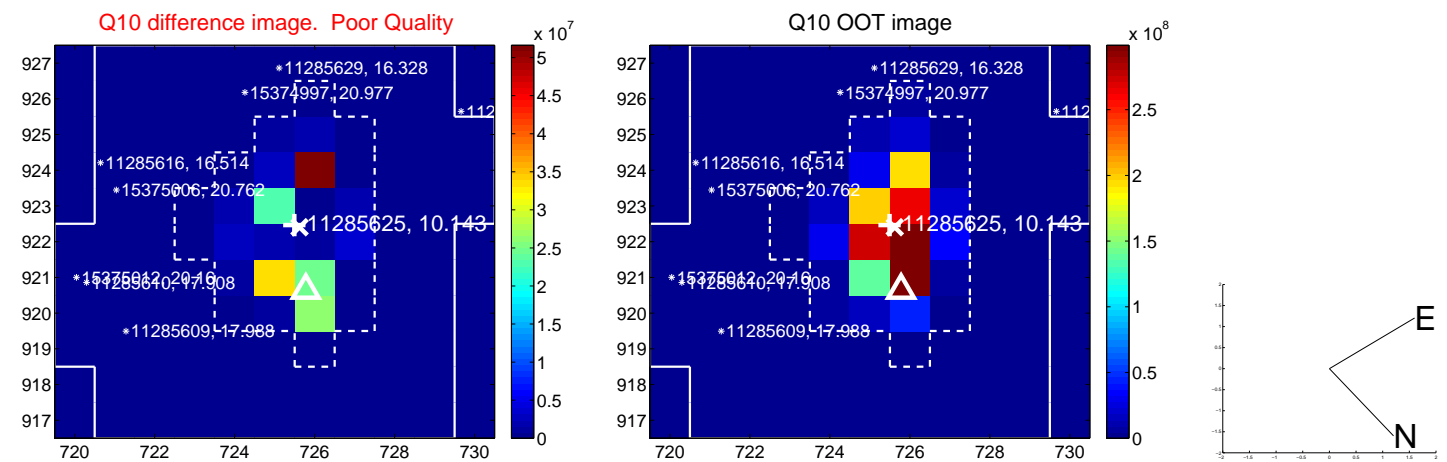
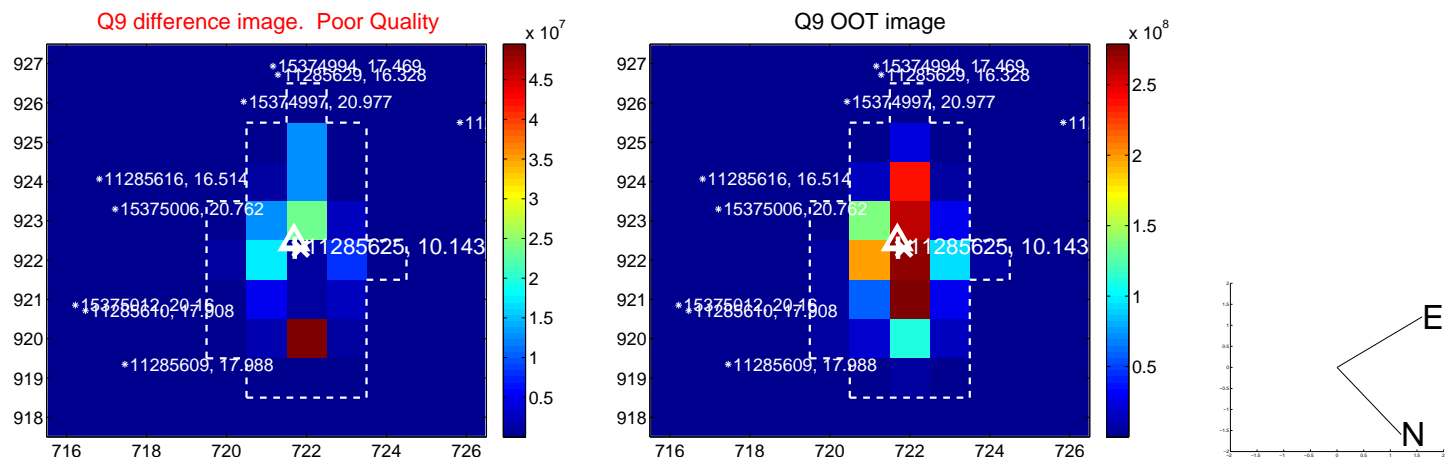
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



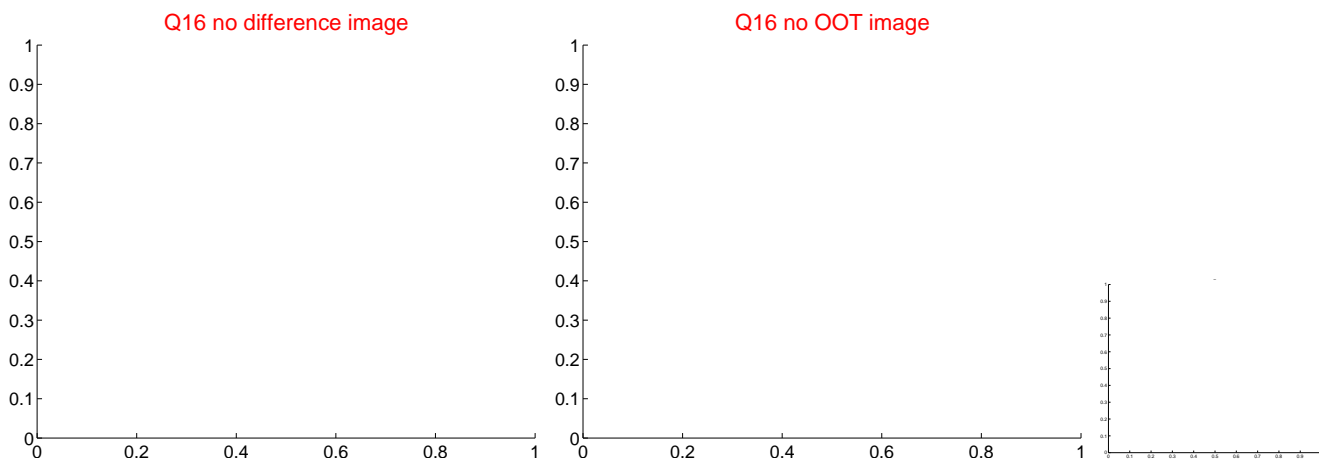
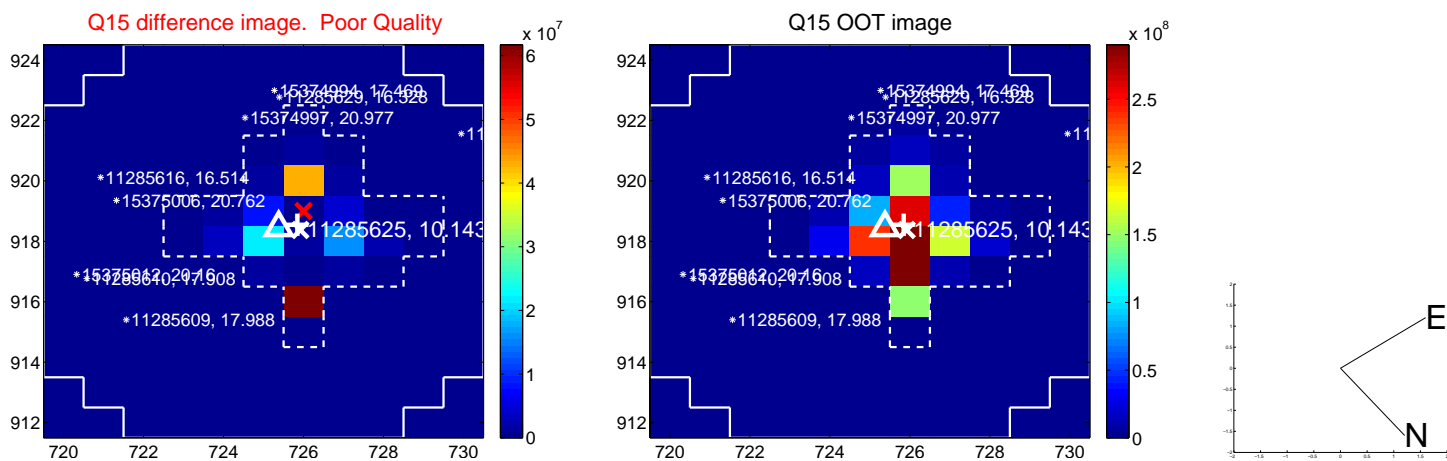
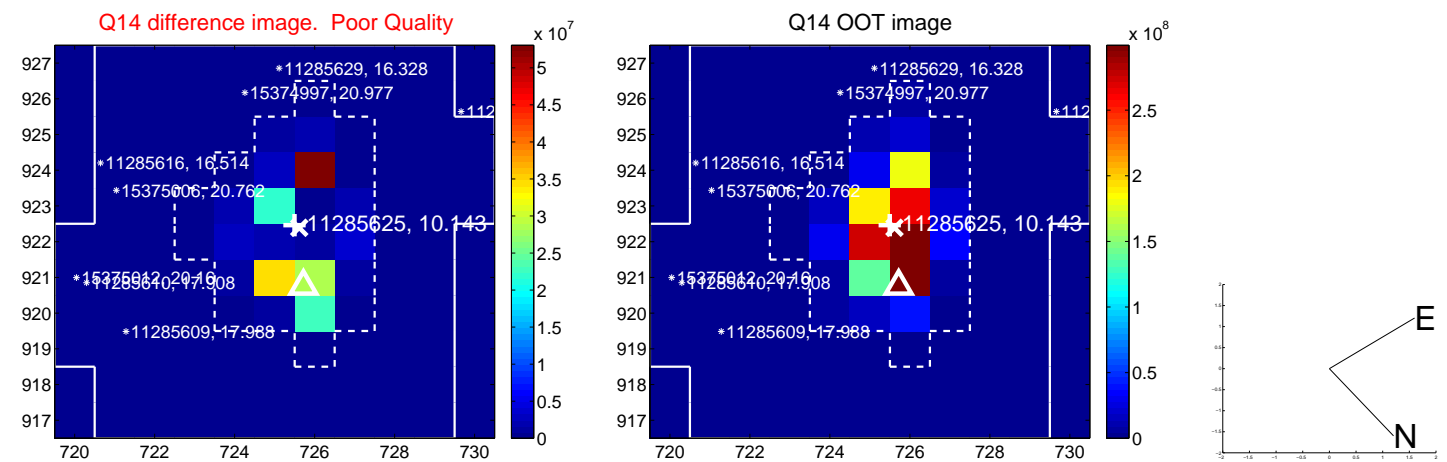
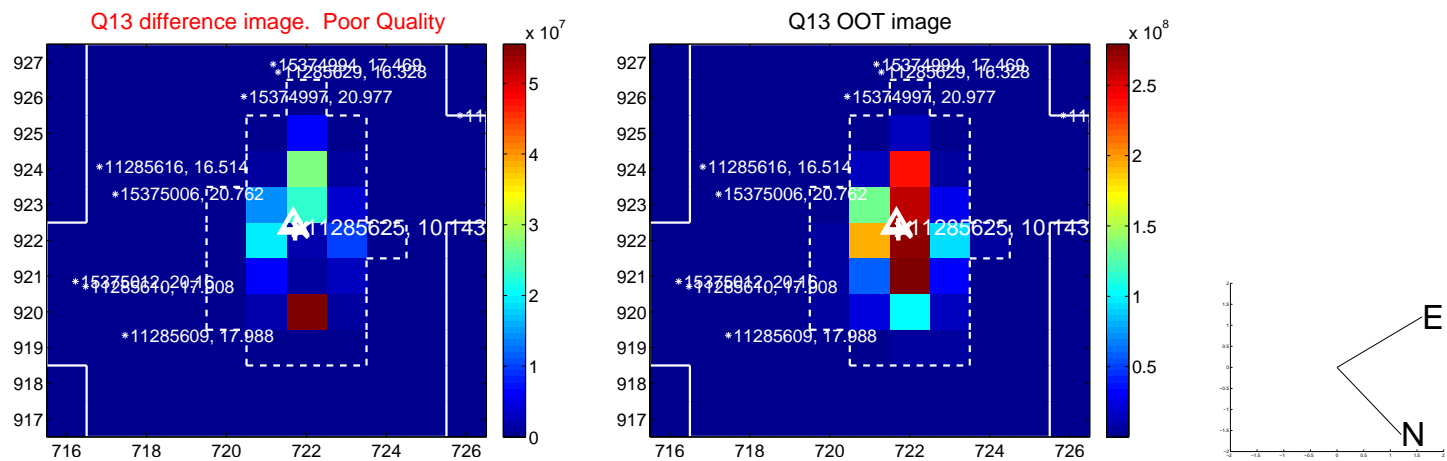
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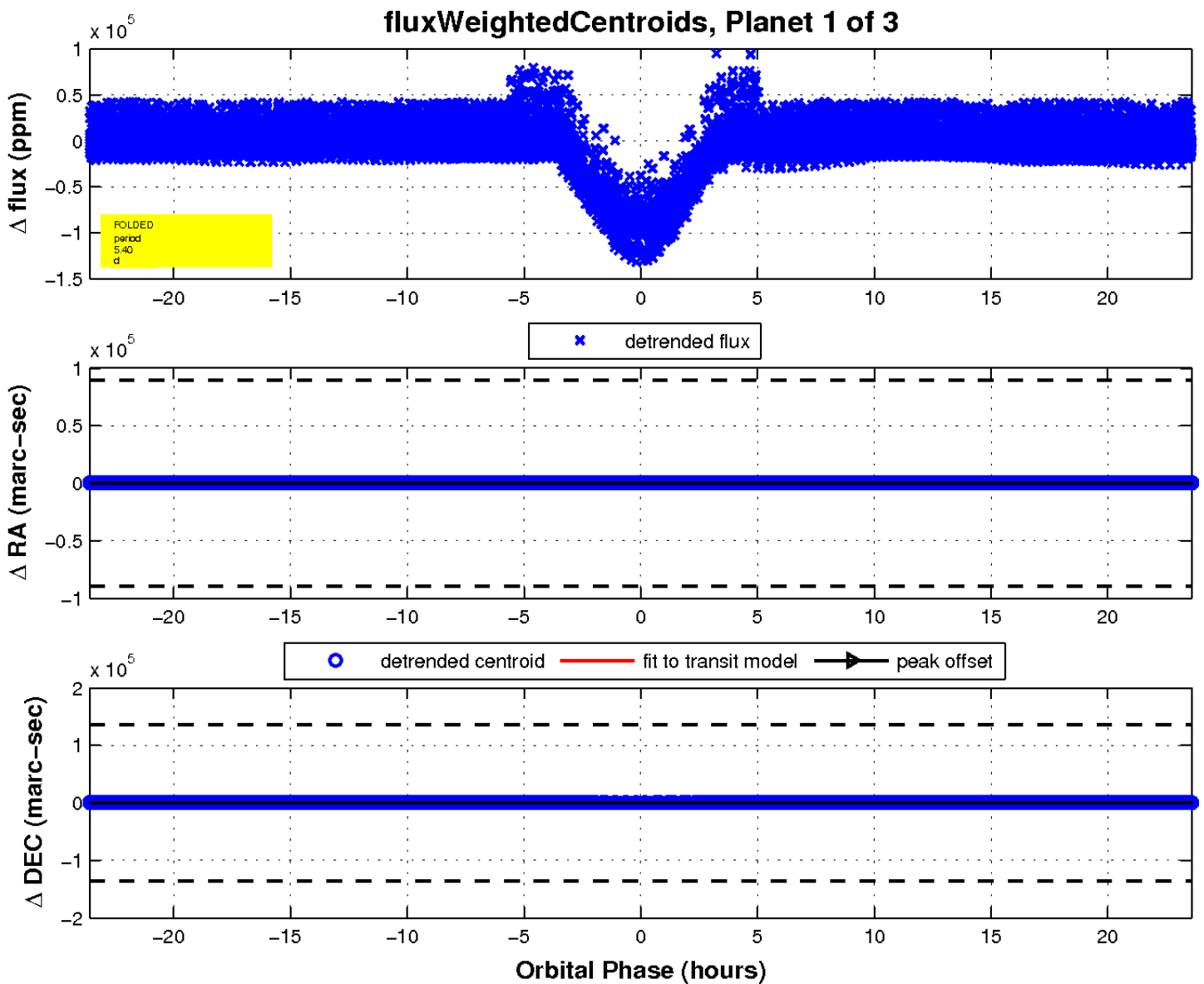
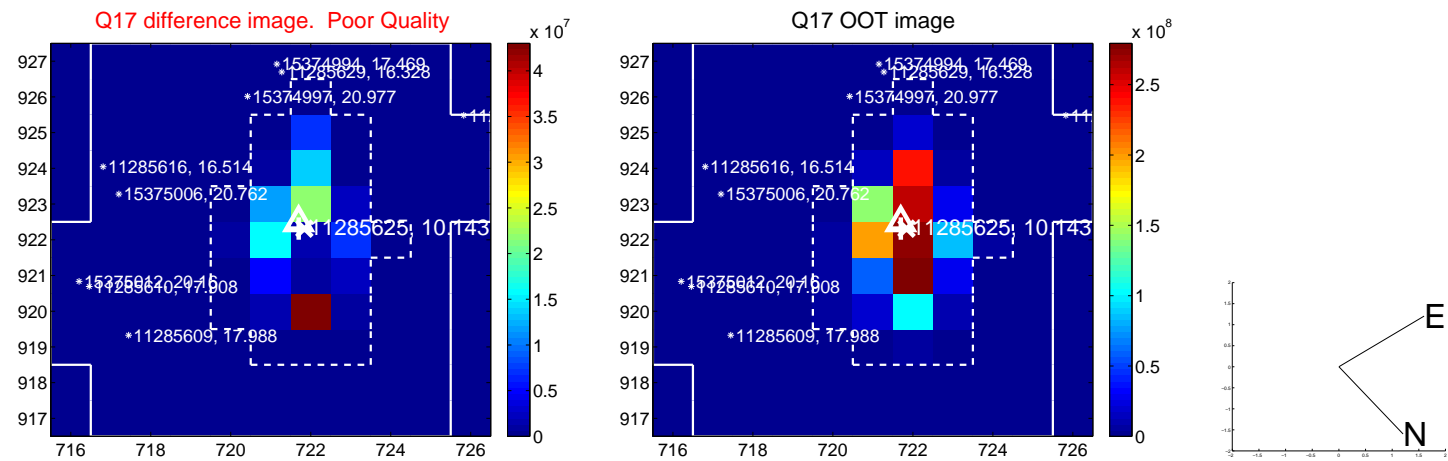
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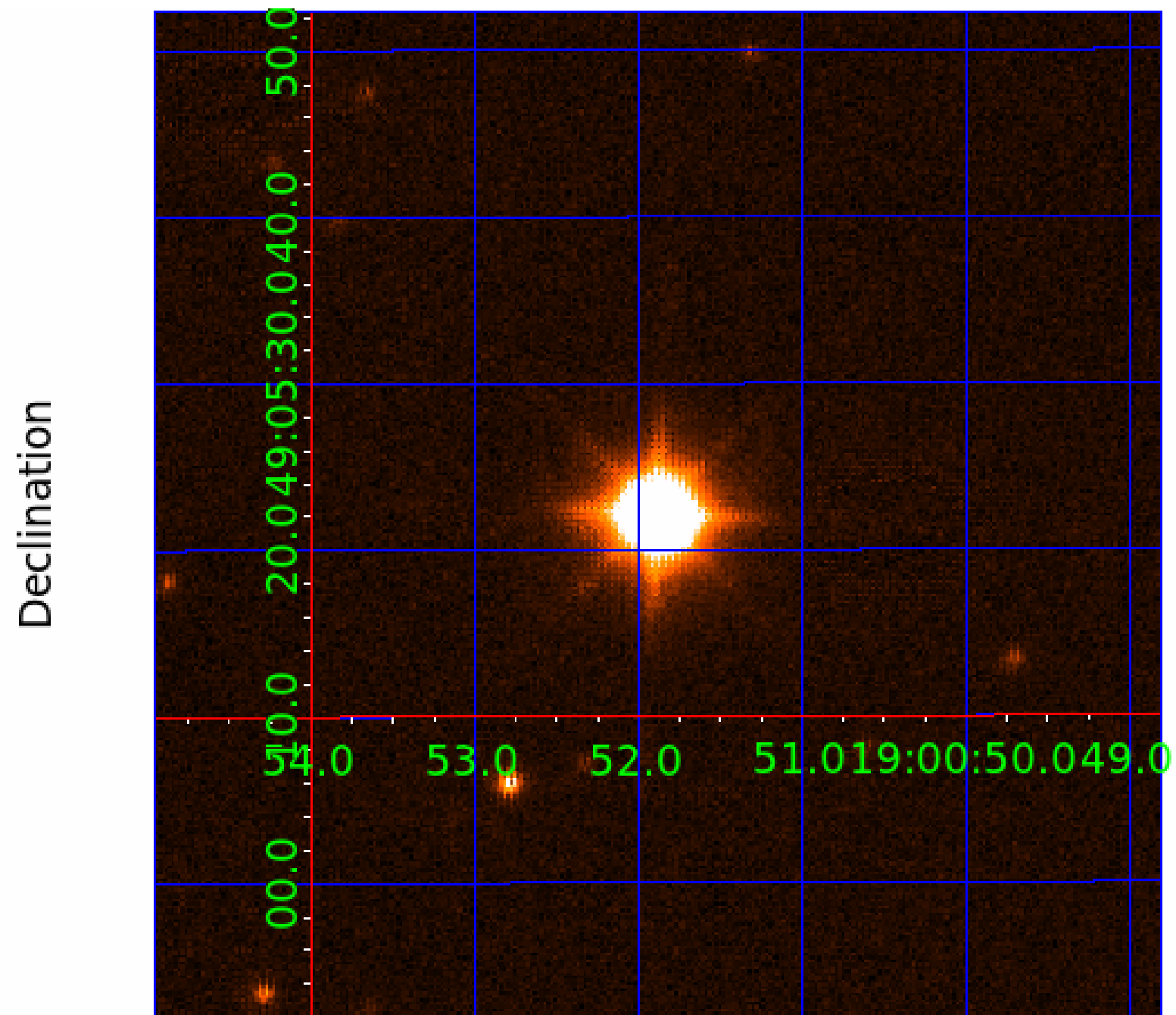
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UKIRT Image



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Ephemeris Match Information For 011285625-02

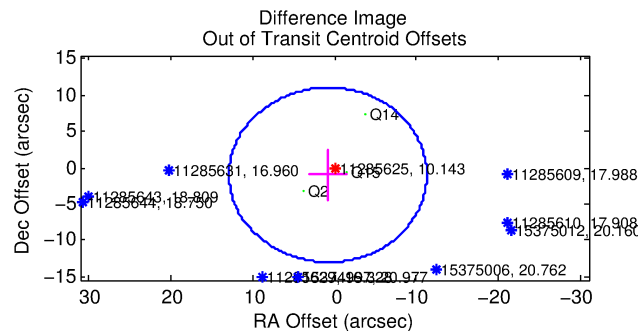
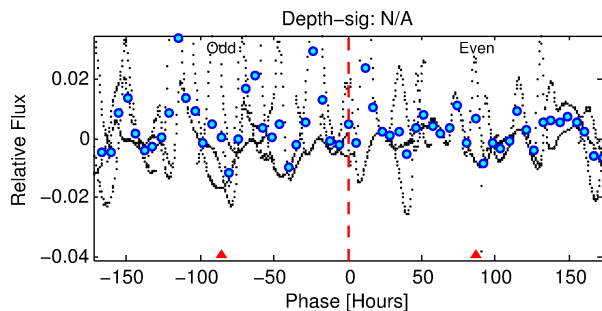
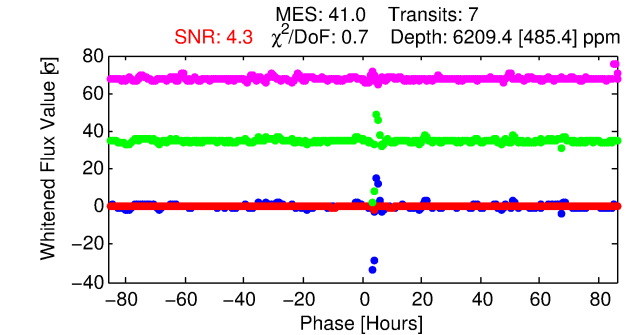
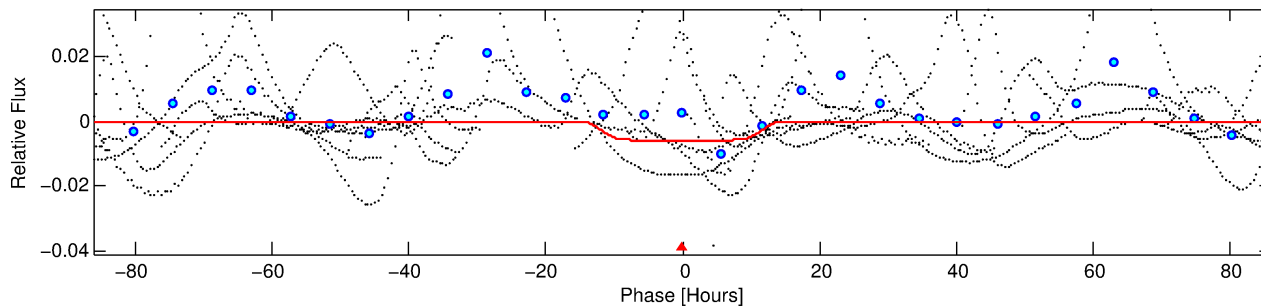
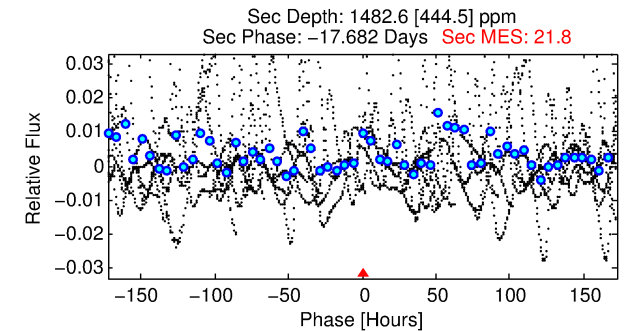
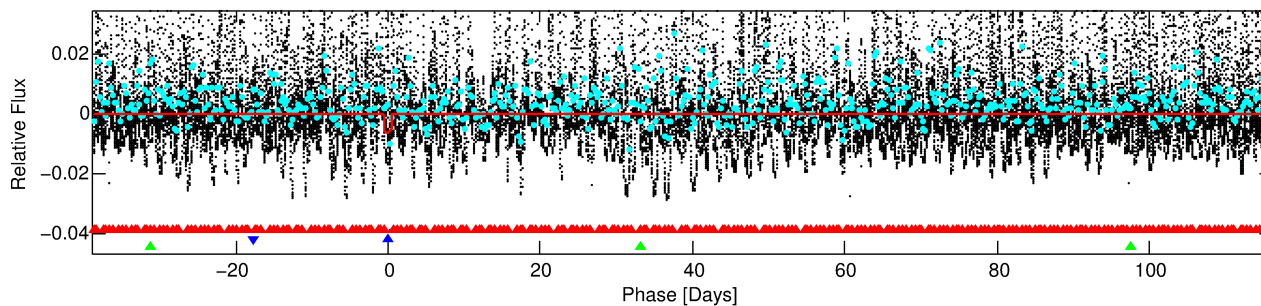
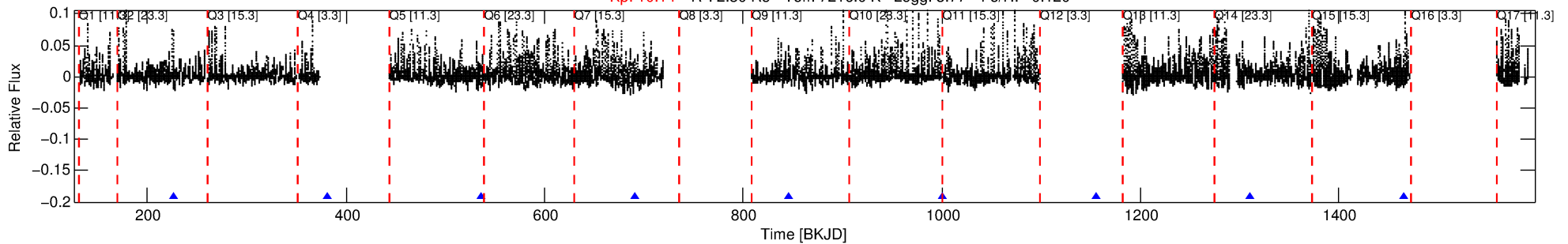
No Significant Match Found

DV One-Page Summary

KIC: 11285625 Candidate: 2 of 3 Period: 154.807 d

KOI: K07431 Corr: No Ephemeris Match

Kp: 10.14 R*: 2.80 Rs Teff: 7216.0 K Logg: 3.77 Fe/H: -0.120



DV Fit Results:

Period = 154.80731 [0.00335] d
Epoch = 227.0464 [0.0222] BKJD
Rp/R* = 0.0789 [0.0030]
a/R* = 31.17 [1.38]
b = 0.77 [0.02]
Seff = 42.42 [28.80]
Teq = 651 [110] K
Rp = 24.15 [10.26] Re
a = 0.6710 [0.2768] AU
Ag = 629.68 [461.61] [1.36σ]
Teffp = 5040 [427] K [9.94σ]

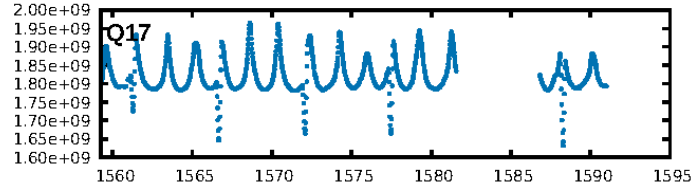
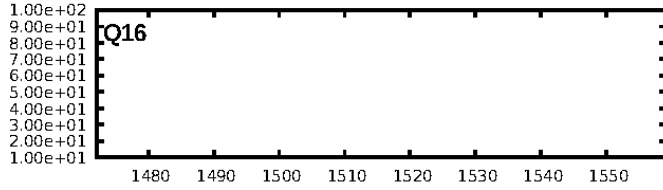
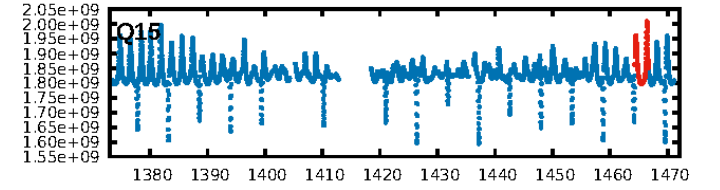
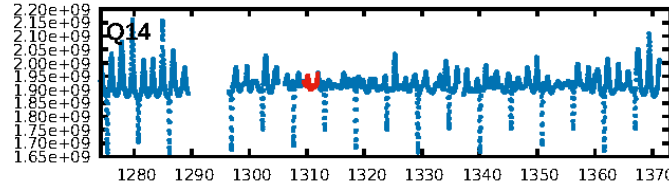
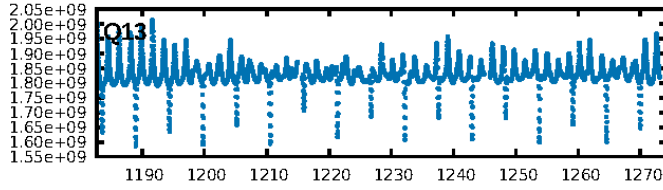
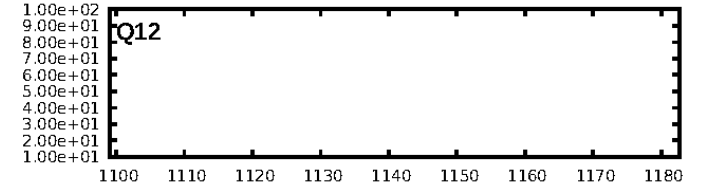
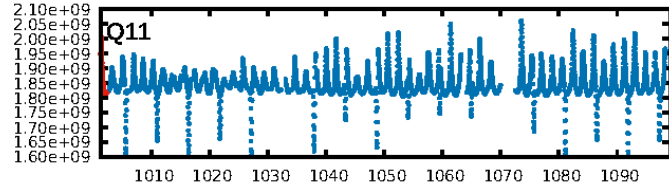
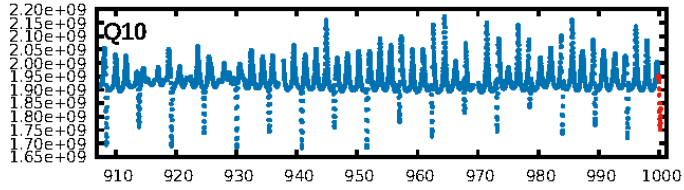
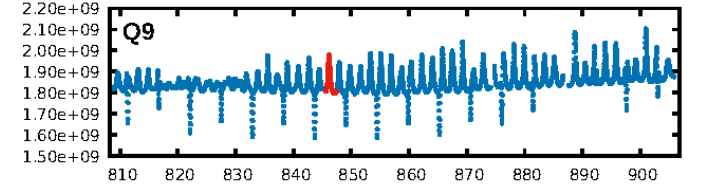
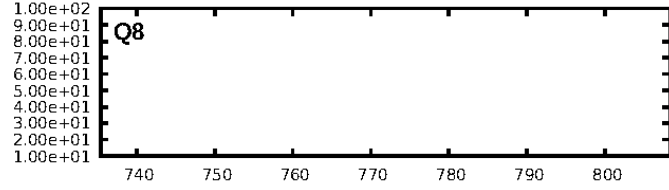
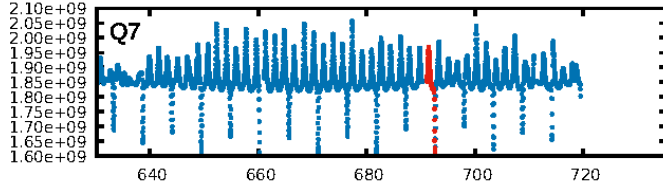
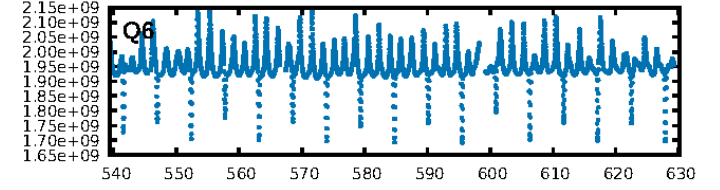
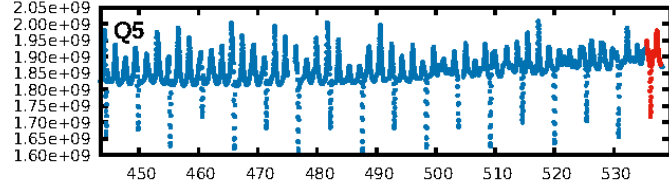
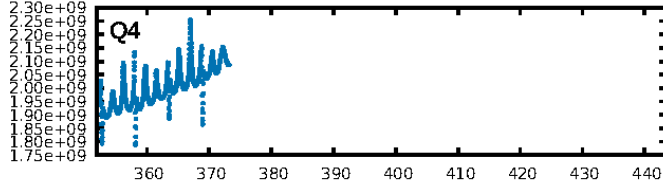
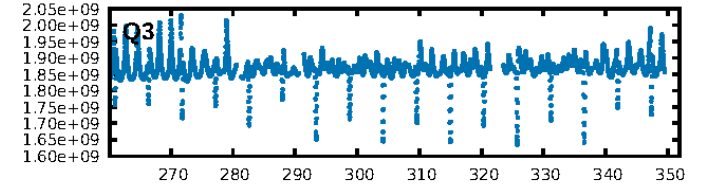
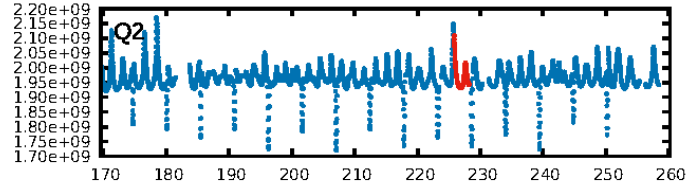
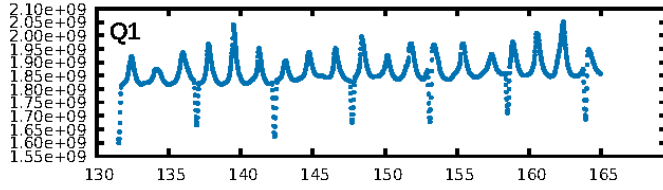
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [120.37σ]
LongPeriod-sig: 100.0% [203.76σ]
ModelChiSquare2-sig: 3.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: N/A
Centroid-sig: 50.2%
Centroid-so: 0.445 arcsec [1.61σ]
OotOffset-rm: 1.284 arcsec [0.32σ]
OotOffset-st: 2/1/0/0 [3]
KicOffset-rm: 1.759 arcsec [0.67σ]
KicOffset-st: 2/1/0/0 [3]
DiffImageQuality-fgm: 0.00 [0/3]
DiffImageOverlap-fno: 0.33 [1/3]

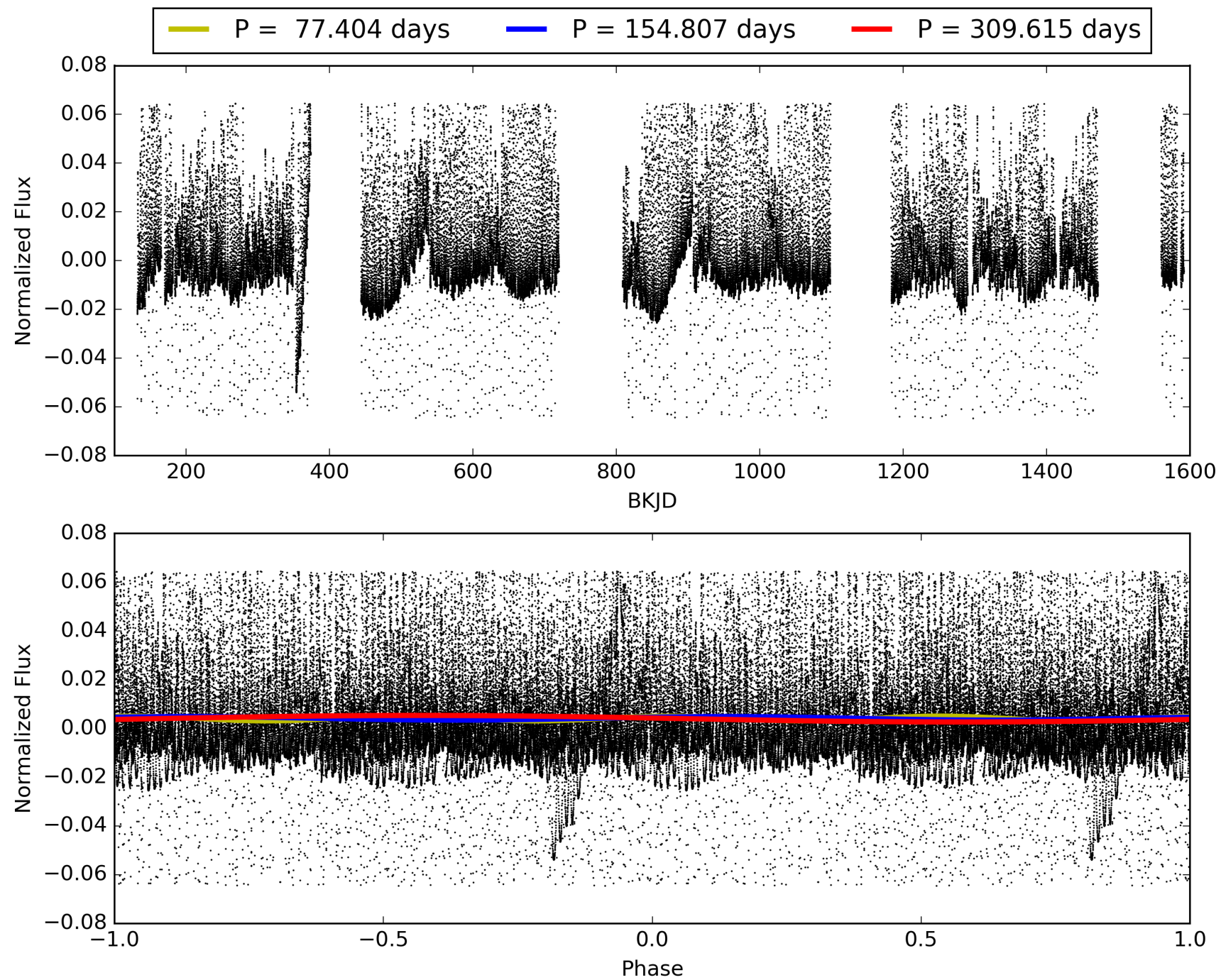
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:30:41 Z

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

TCE 011285625-02, PDC Light Curves

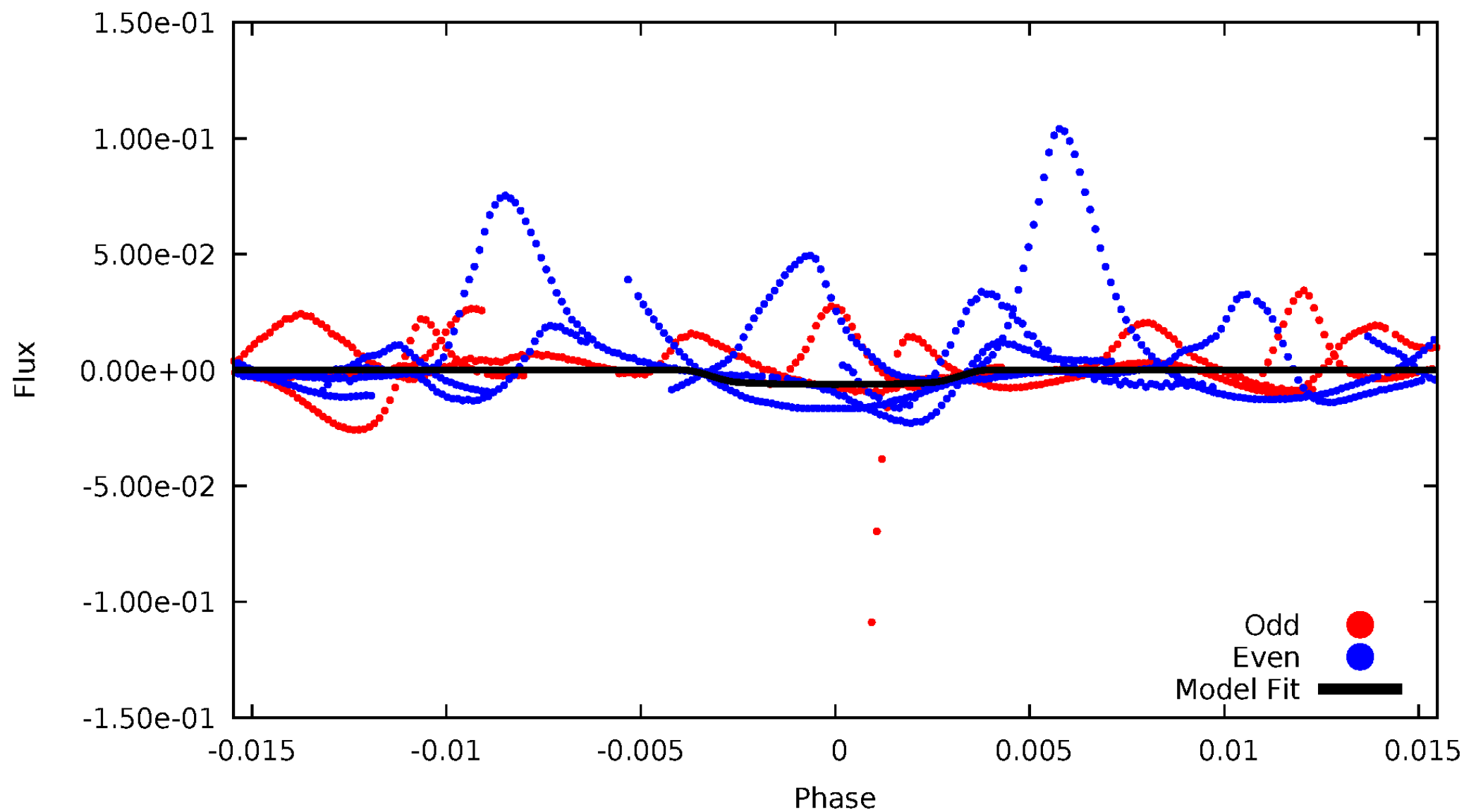


TCE 011285625-02



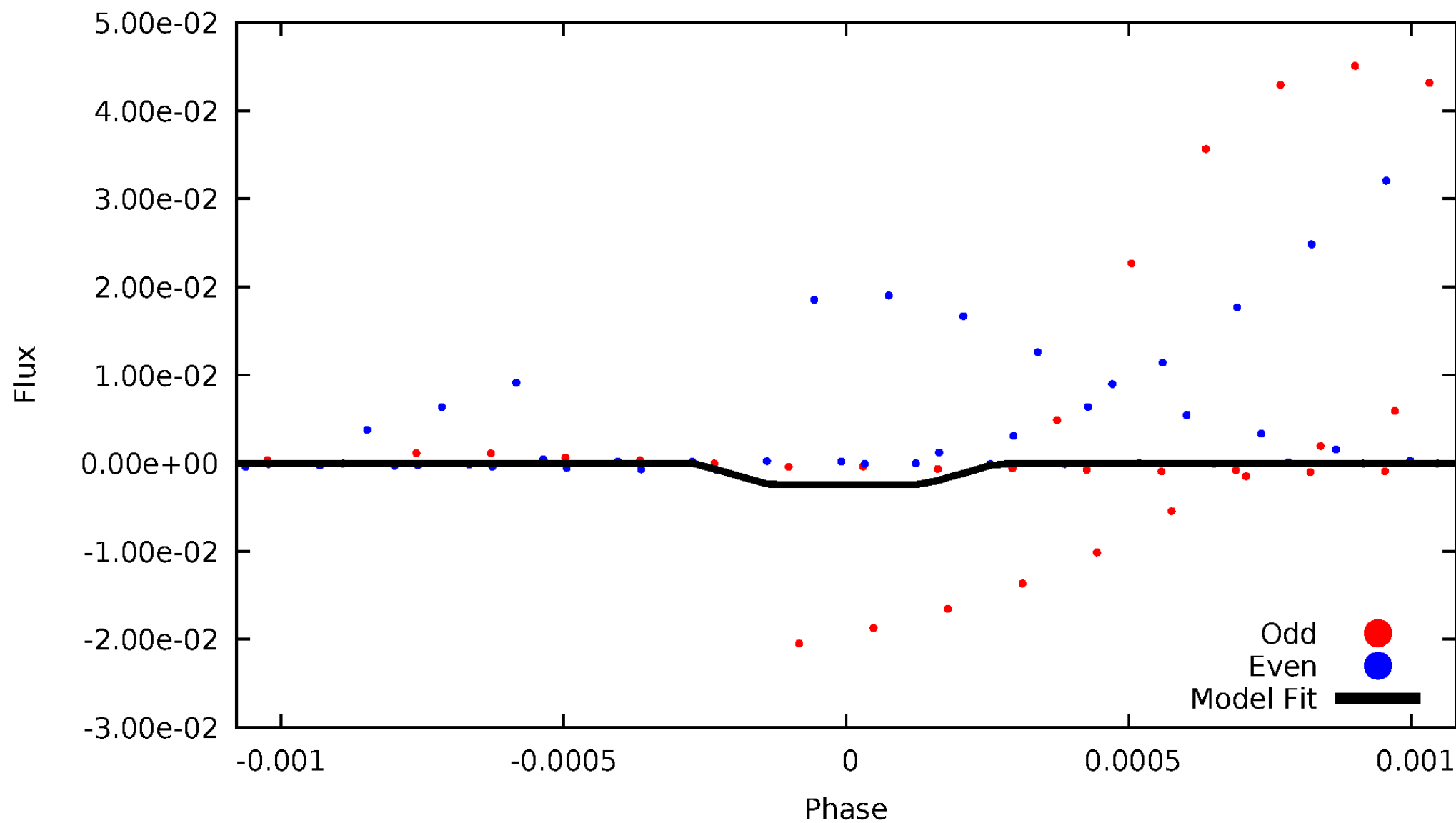
DV Odd/Even

TCE 011285625-02



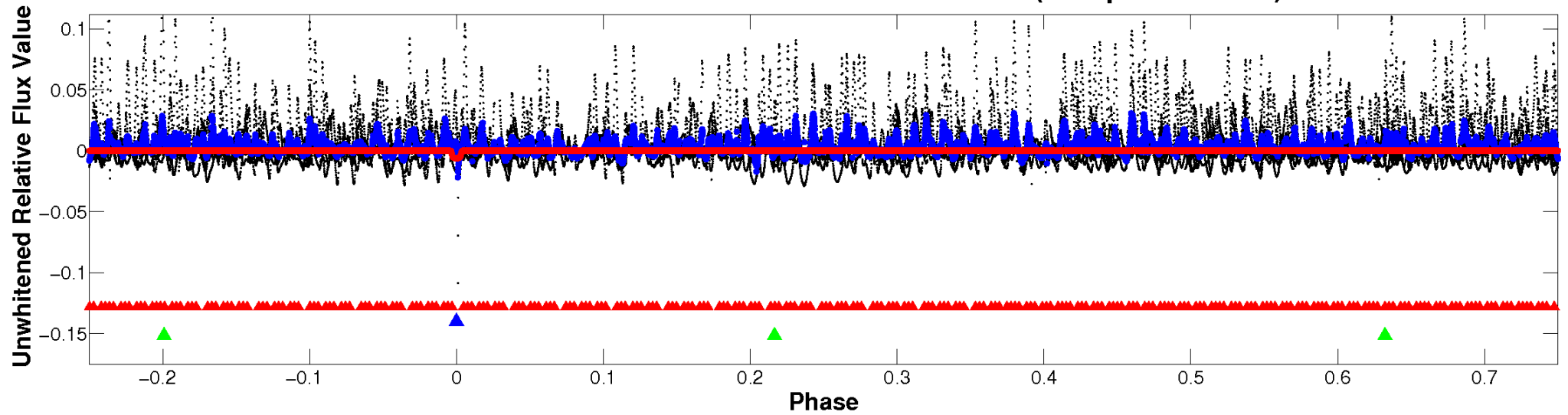
ALT Odd/Even

TCE 011285625-02

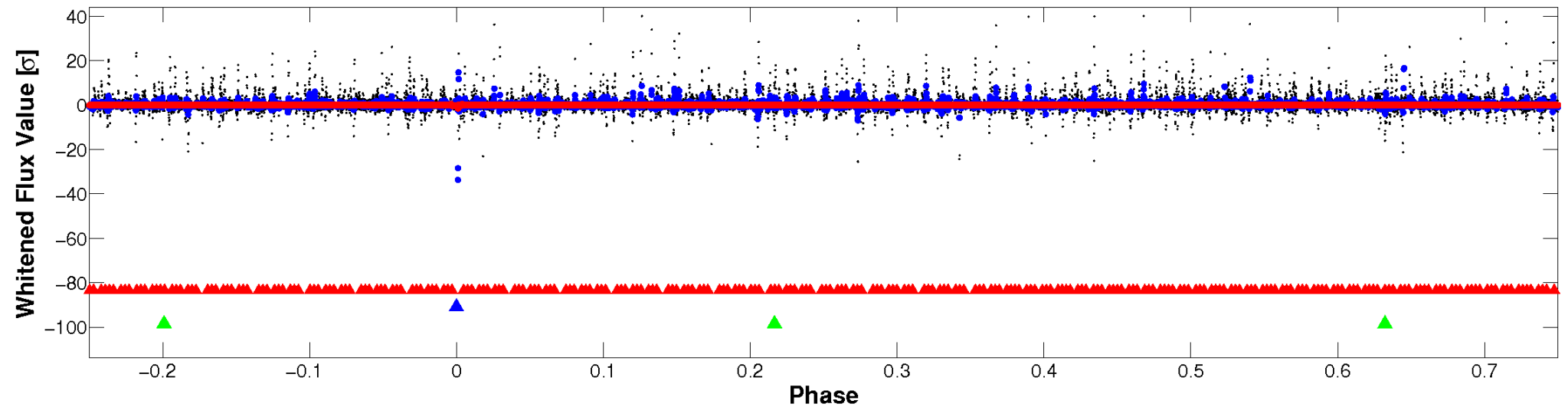


Non-Whitened Vs. Whitened Light Curve

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

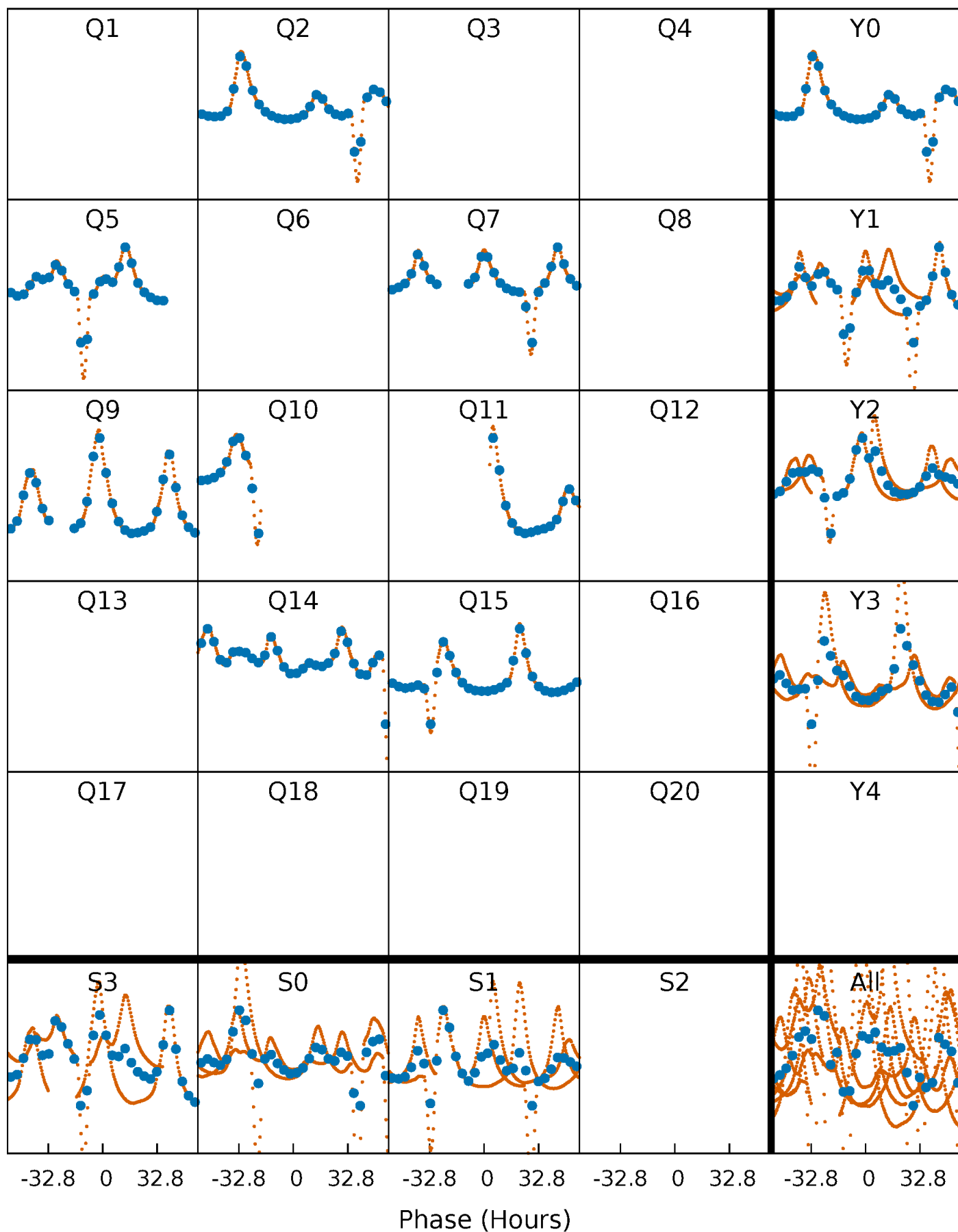


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



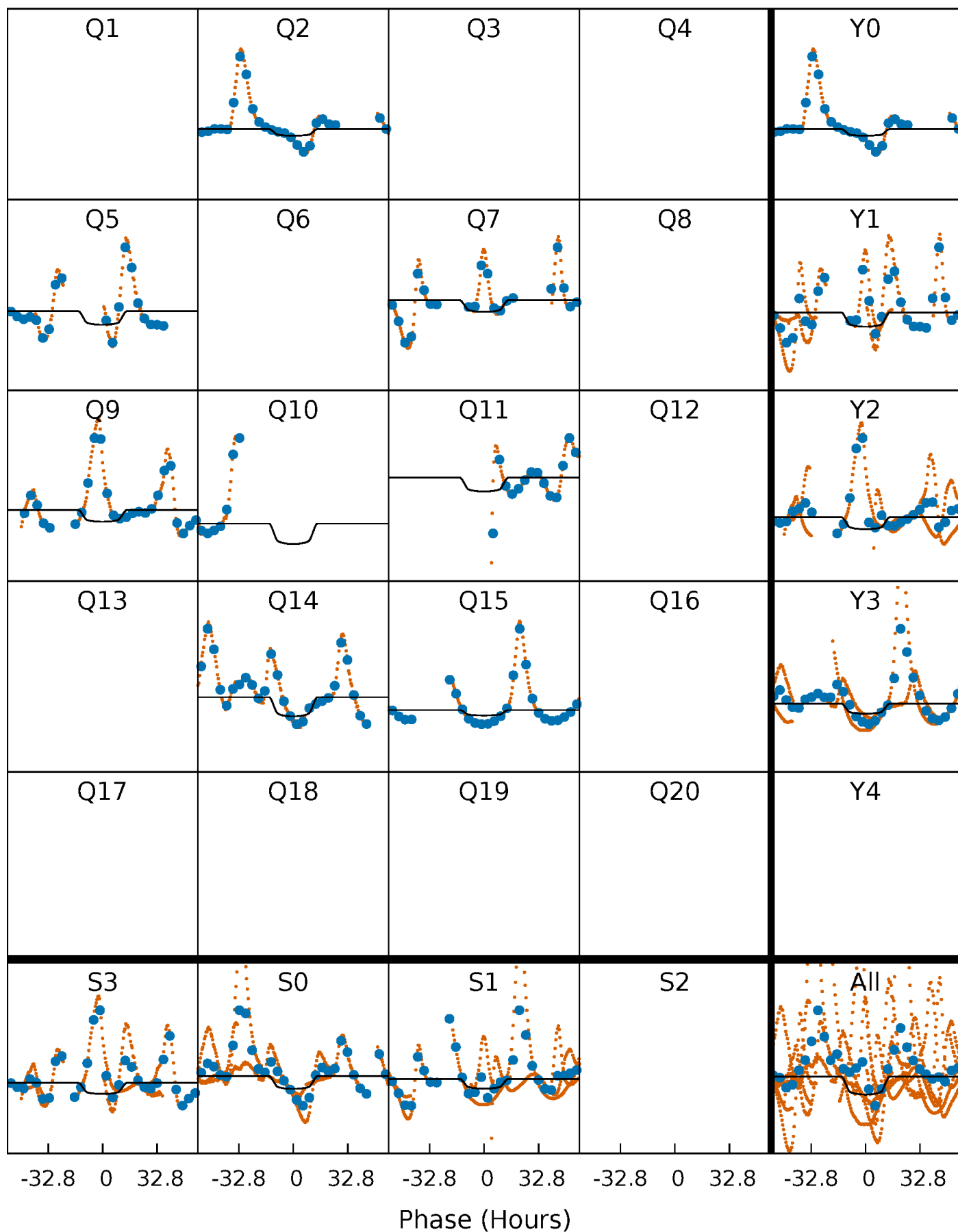
PDC Quarter-Phased Transit Curves

TCE 011285625-02 P=154.807312 Days $T_0=227.046430$ (BKJD)



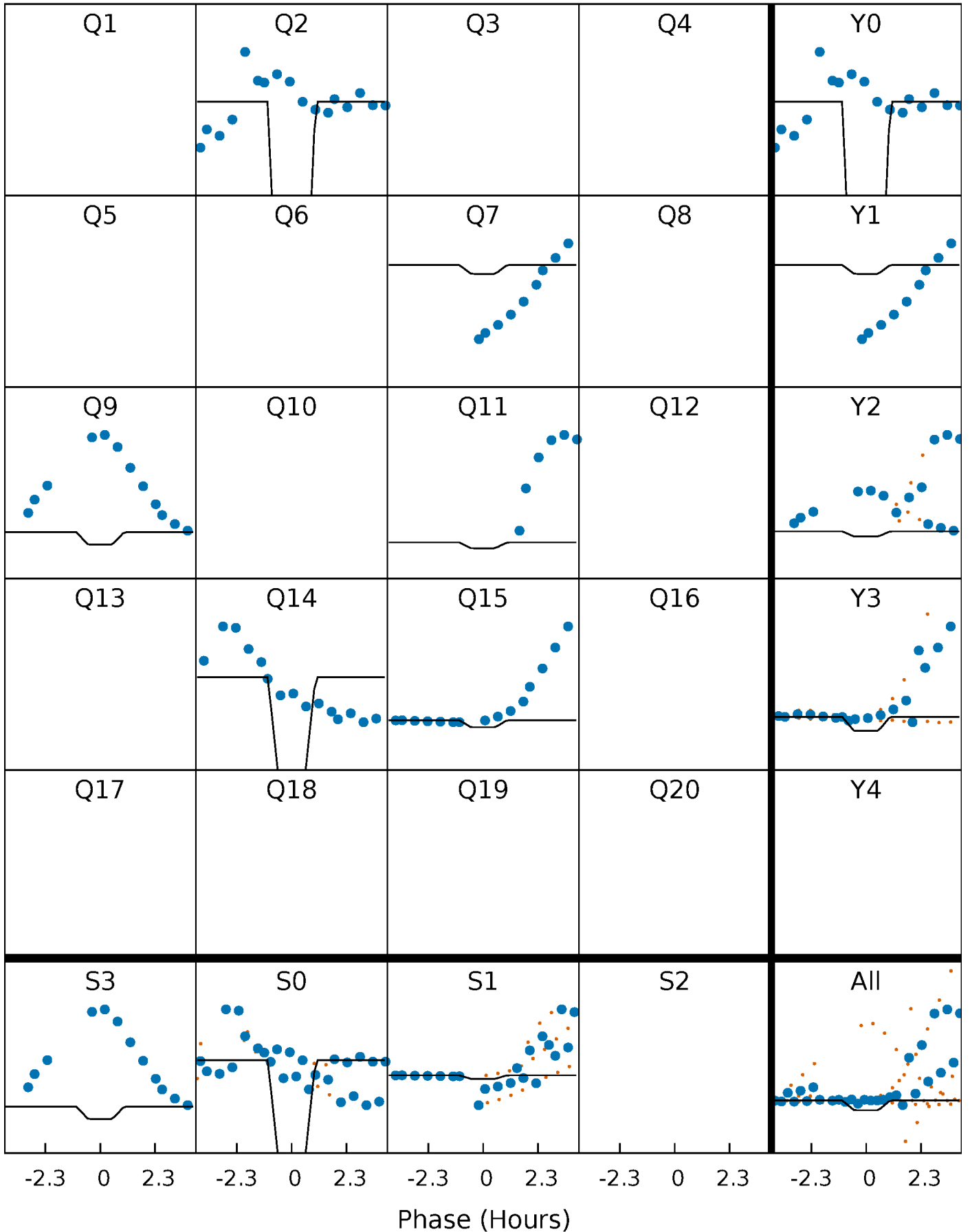
DV Quarter-Phased Transit Curves

TCE 011285625-02 P=154.807312 Days $T_0=227.046430$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

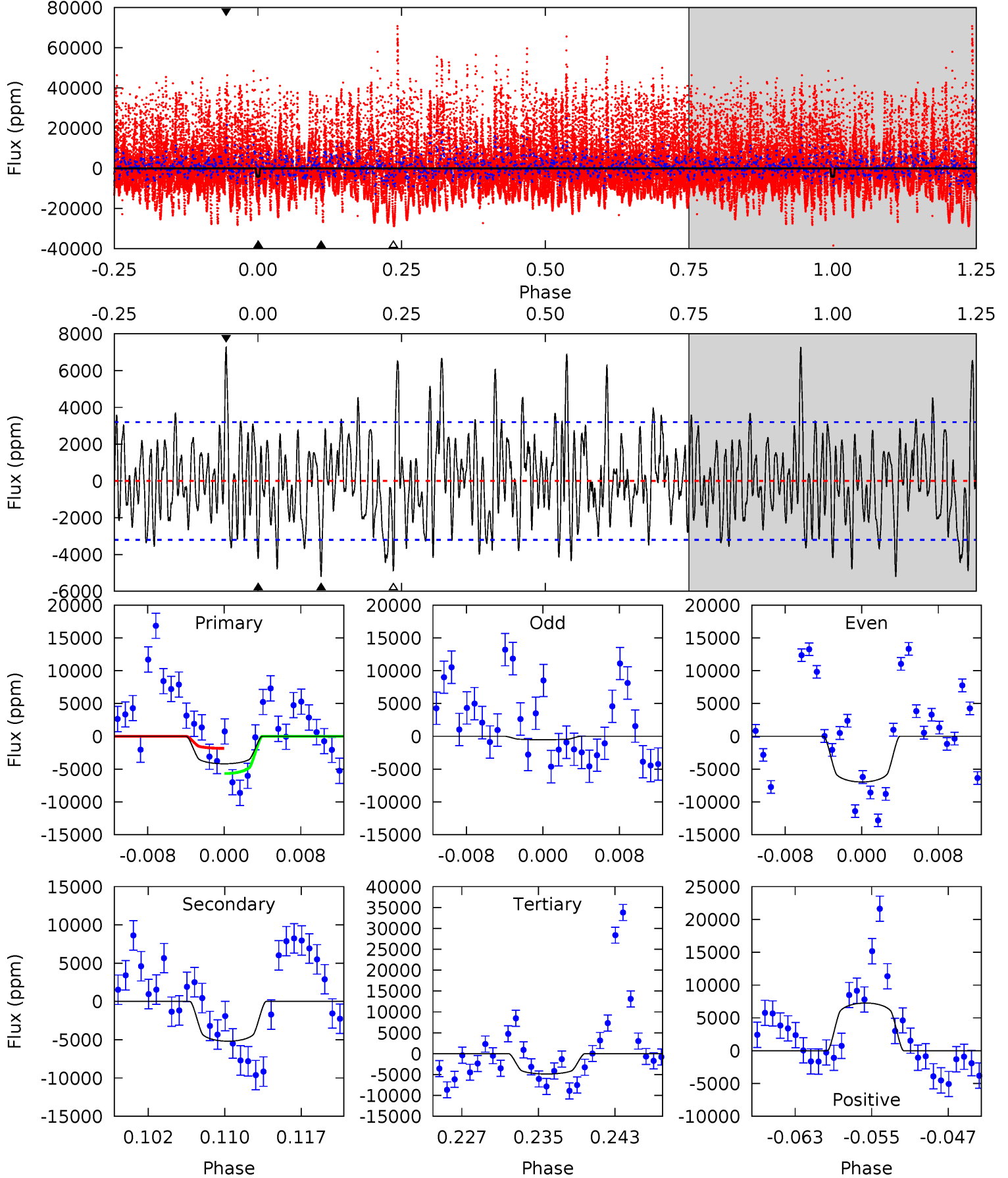
TCE 011285625-02 P=154.985077 Days $T_0=226.245118$ (BKJD)



DV Model-Shift Uniqueness Test

011285625-02, P = 154.807312 Days, E = 72.239118 Days

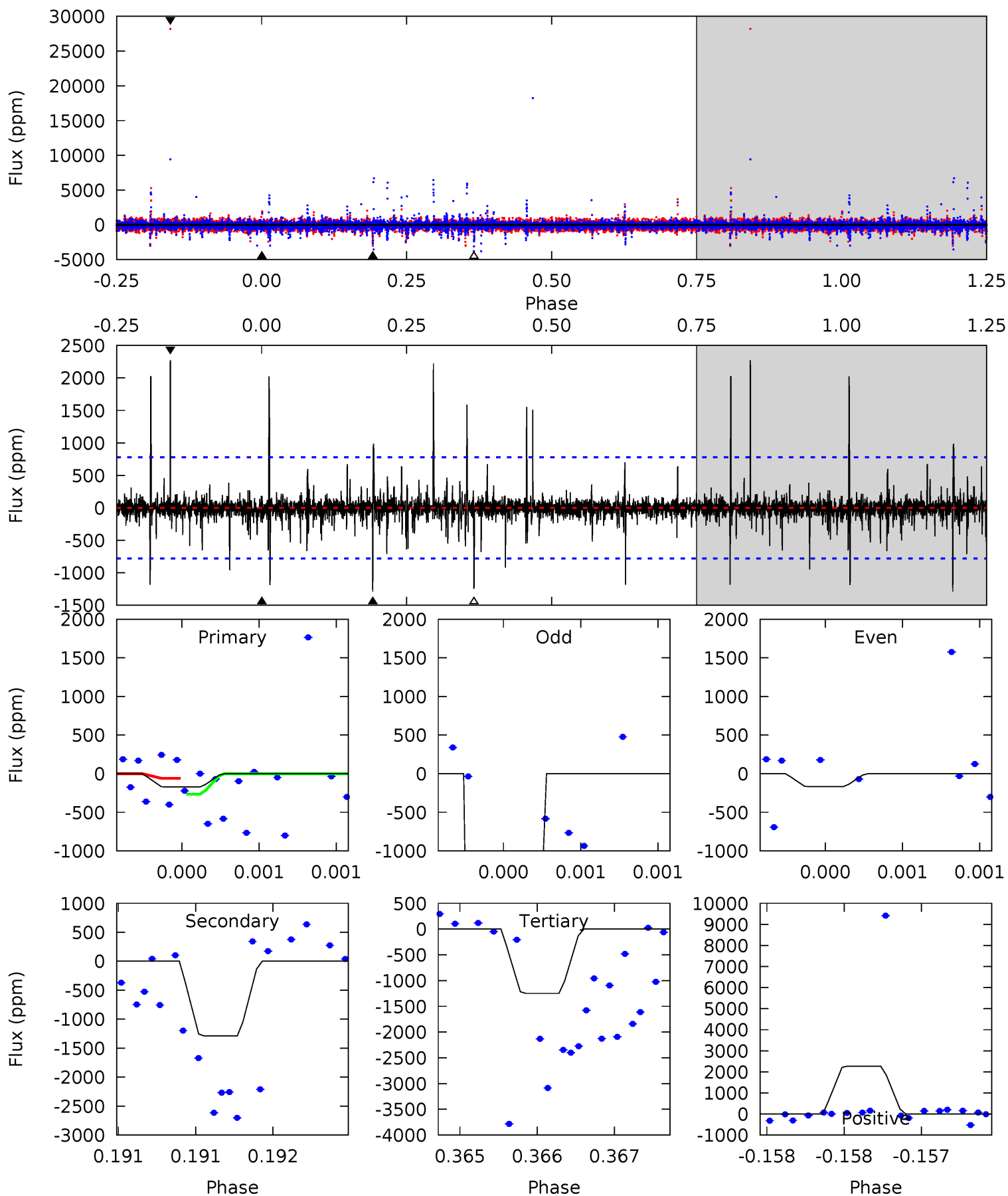
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.65	8.23	7.72	11.5	5.07	2.66	3.24	-1.07	-4.87	0.52	-3.29	4.14	0.59	0.58	3.01



Alt Model-Shift Uniqueness Test

011285625-02, P = 154.985077 Days, E = 71.260041 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.23	9.21	8.92	16.2	5.56	3.47	0.93	-7.69	-15.0	0.29	-7.02	12.7	0.02	0.64	0.74



Stellar Parameters For KIC 011285625

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7216^{+201}_{-251}	$3.768^{+0.392}_{-0.098}$	$-0.120^{+0.250}_{-0.350}$	$2.804^{+0.509}_{-1.187}$	$1.682^{+0.186}_{-0.345}$	$0.107^{+0.369}_{-0.033}$
	+3%/-3%	+10%/-3%	+208%/-292%	+18%/-42%	+11%/-21%	+343%/-31%
Source	PHO1	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 011285625-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-5190 ± 630	$23.08^{+3.33}_{-4.93}$	887^{+61}_{-98}	6862^{+324}_{-347}	2436^{+1397}_{-599}
Alt.	-1289 ± 140	$14.36^{+2.29}_{-3.16}$	886^{+60}_{-103}	6079^{+331}_{-284}	1558^{+940}_{-403}

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

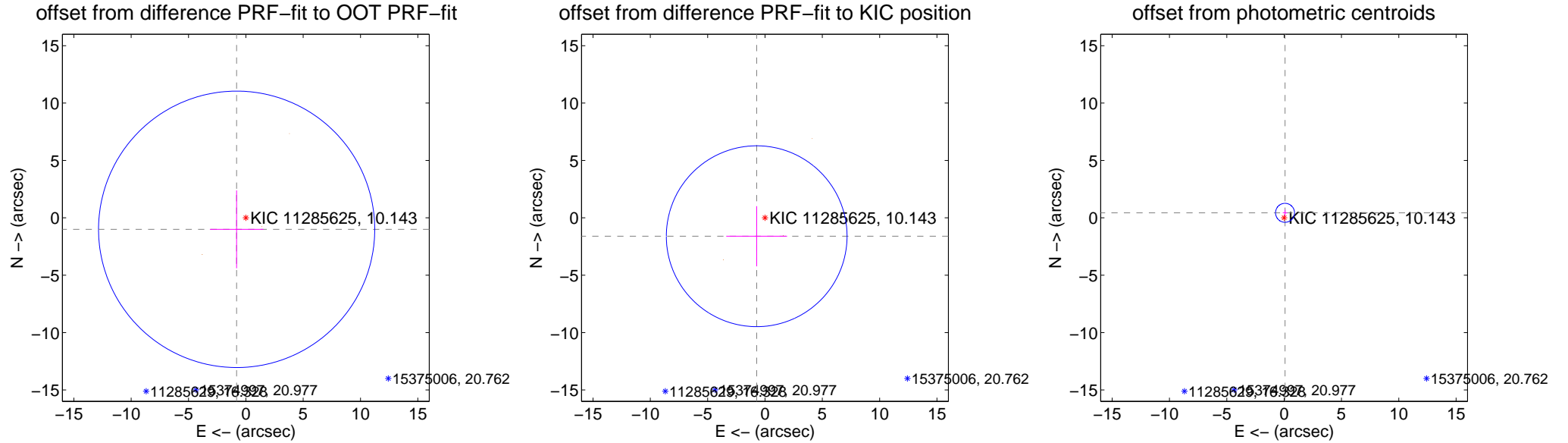
DV Centroid Data

Supplemental centroid analysis for 011285625-02. **Kepler magnitude: 10.14.** Transit SNR 4.28

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.80 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.284 ± 4.015	0.32	0.803 ± 2.336	-1.001 ± 3.392
PRF-fit source offset from KIC position	1.759 ± 2.627	0.67	0.724 ± 2.652	-1.603 ± 2.621
photometric centroid source offset	0.45 ± 0.28	1.61	-0.08 ± 0.19	0.44 ± 0.28



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

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

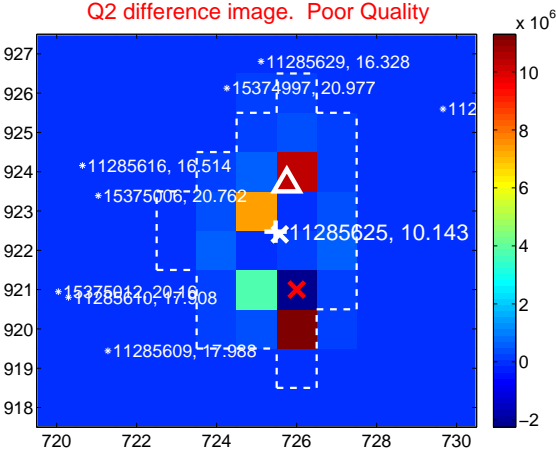
Q1 no difference image



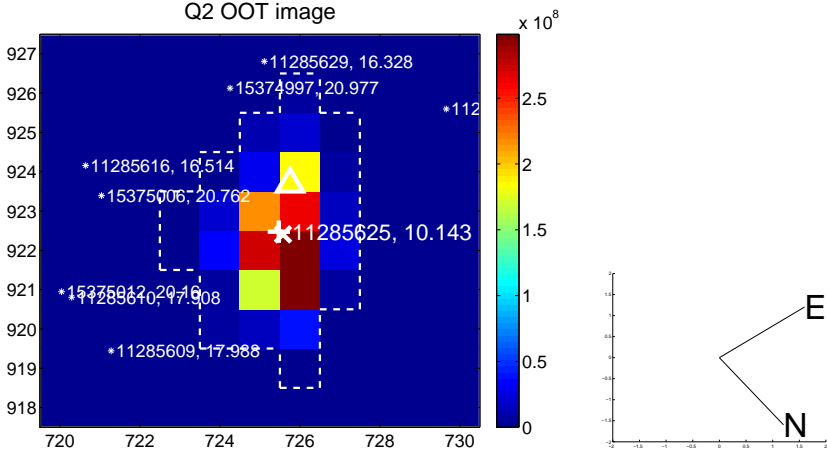
Q1 no OOT image



Q2 difference image. Poor Quality



Q2 OOT image



Q3 no difference image



Q3 no OOT image



Q4 no difference image



Q4 no OOT image



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.

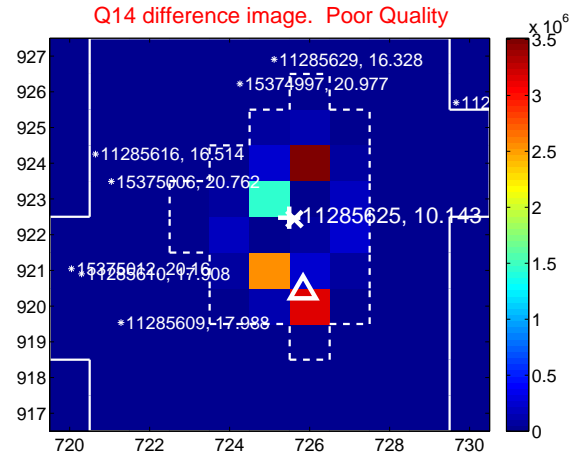
Q13 no difference image



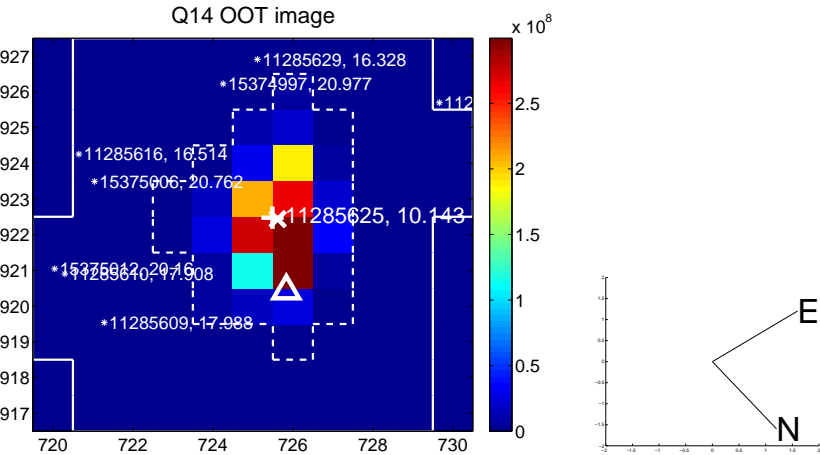
Q13 no OOT image



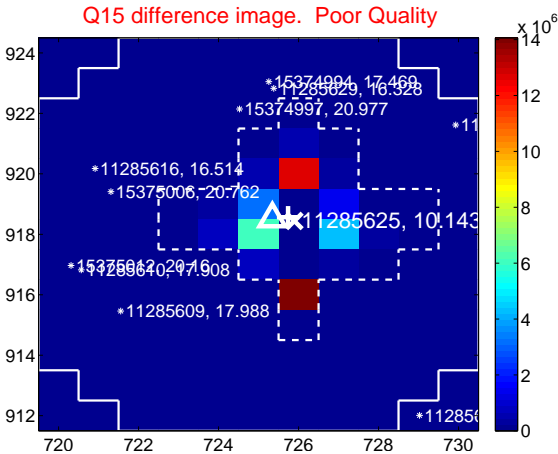
Q14 difference image. Poor Quality



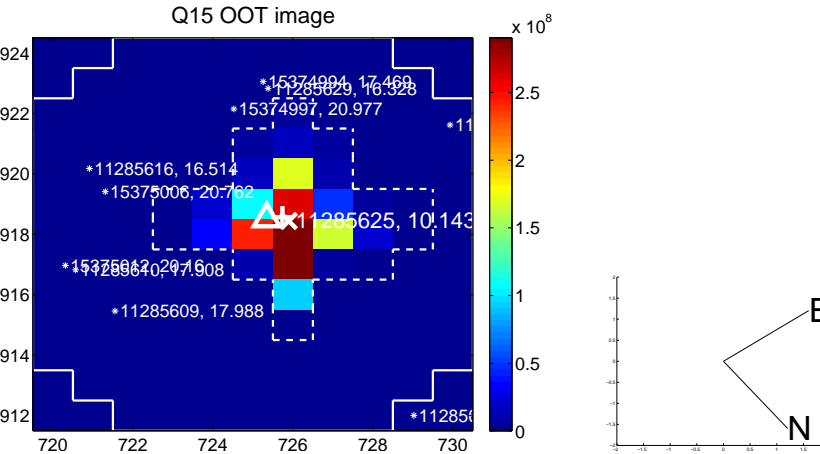
Q14 OOT image



Q15 difference image. Poor Quality



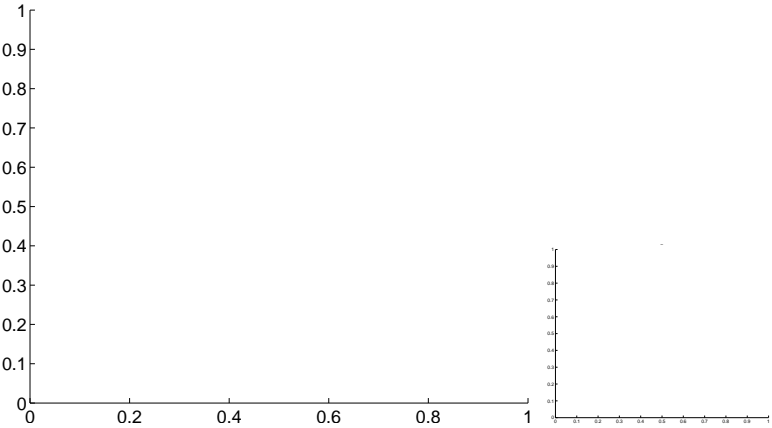
Q15 OOT image



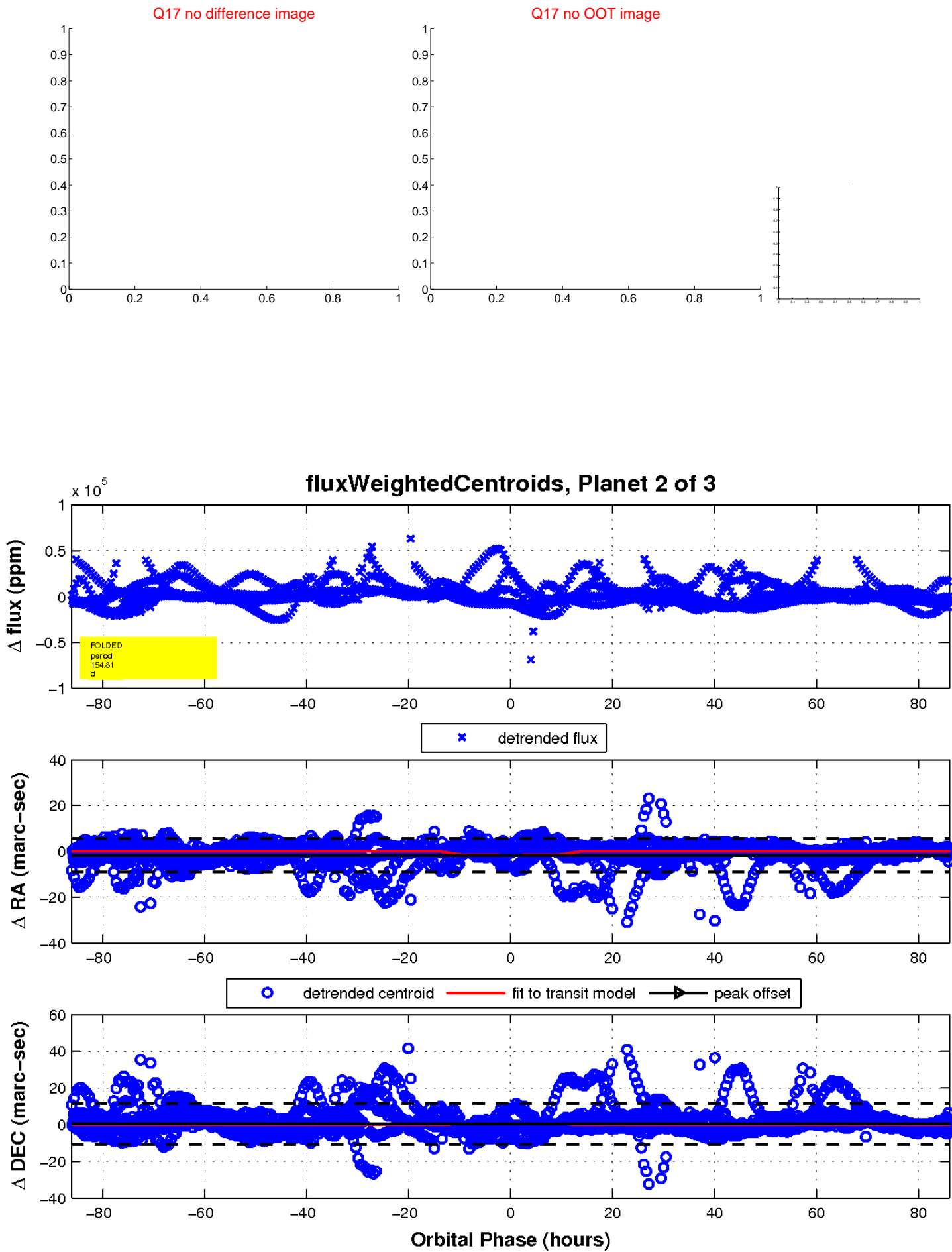
Q16 no difference image



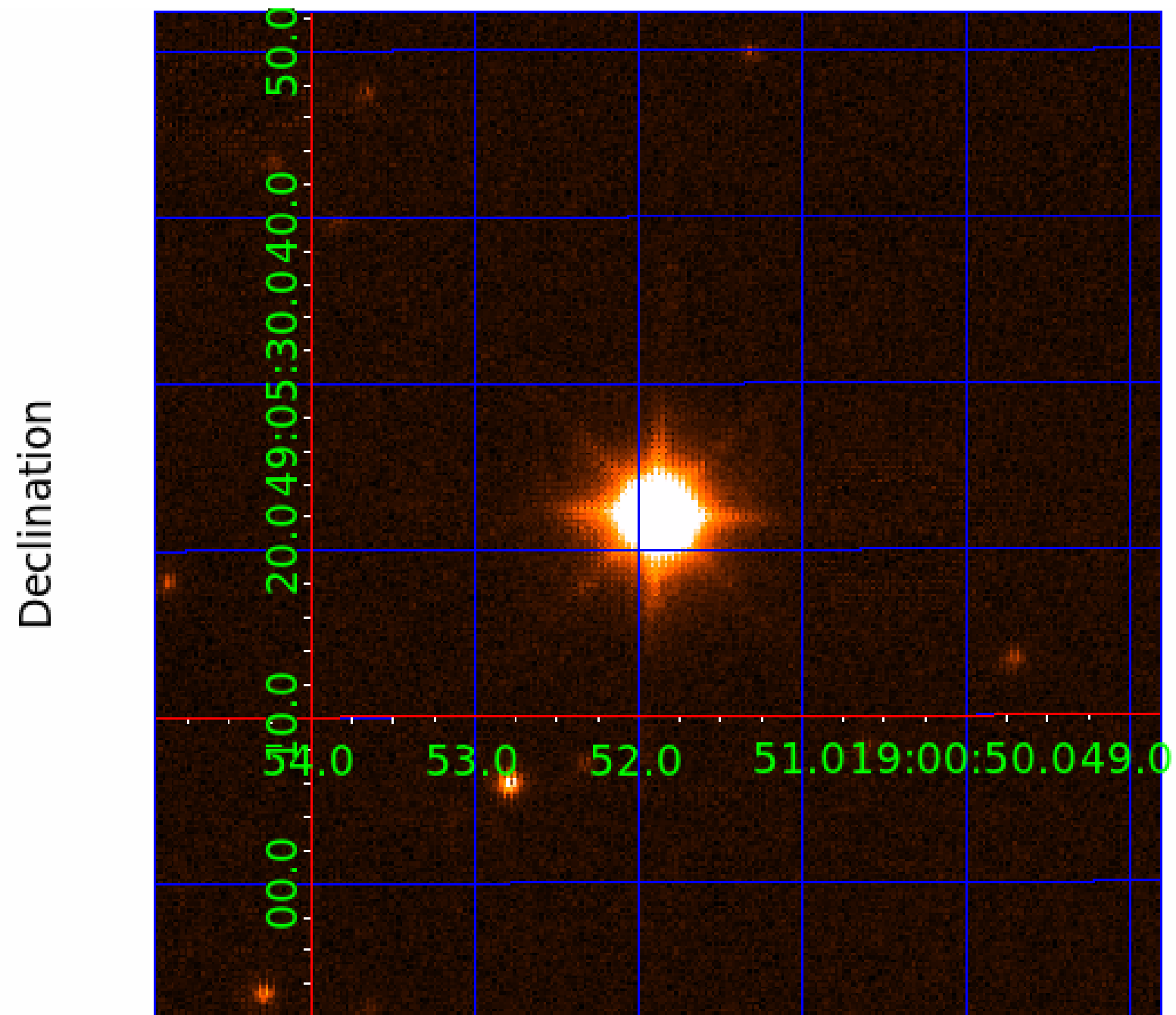
Q16 no OOT image



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



UKIRT Image



KIC 011285625

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})
011285625-01	OBS	7431.01	5.395283	131.539952	98050.3	7.866	399.3	499.1	2.80	7216	148.17	3726.03
011285625-02	OBS	No	154.807313	227.046430	6209.4	28.733	41.0	4.3	2.80	7216	24.15	42.42
011285625-03	OBS	No	400.078195	479.725860	417.2	3.000	45.6	-1.0	2.80	7216	5.79	11.96

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011285625-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_DV—DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_DV—MOD_ODDEVEN_ALT—DEEP_V_SHAPED—CENT_SATURATED
011285625-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
011285625-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED

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

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

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

Ephemeris Match Information For 011285625-03

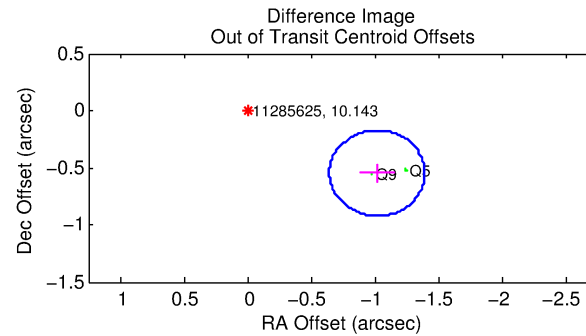
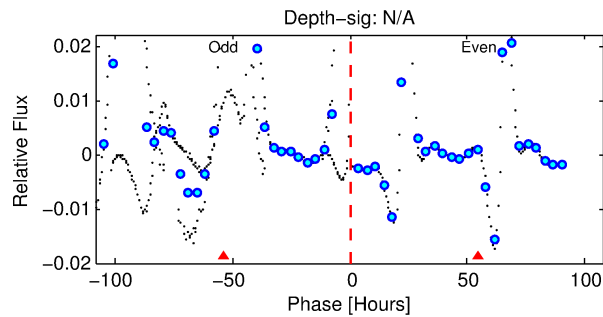
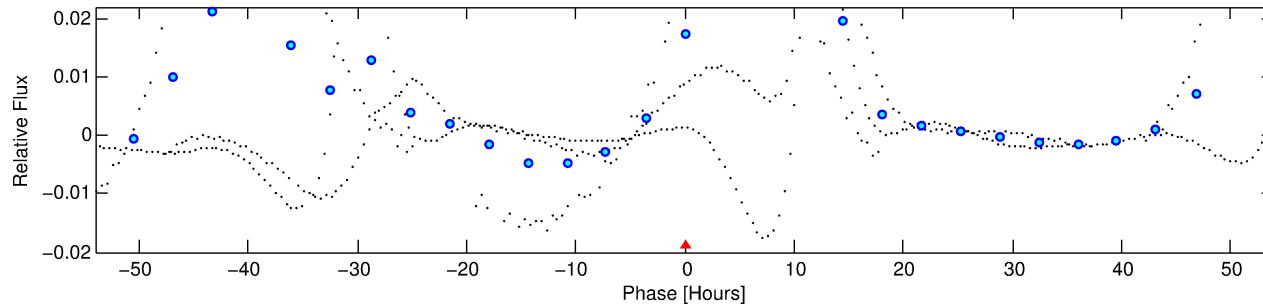
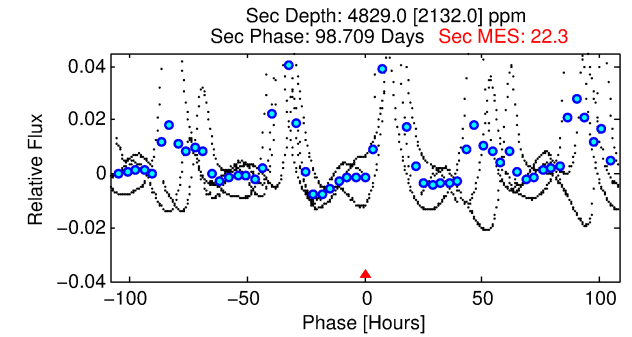
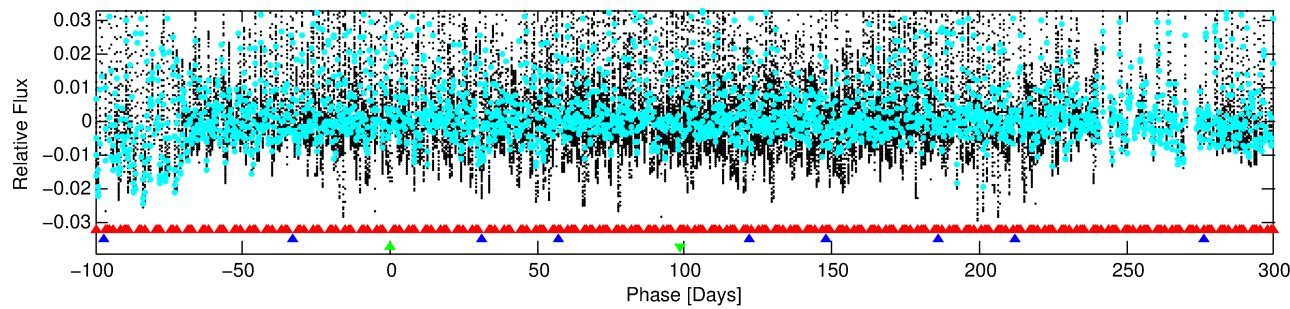
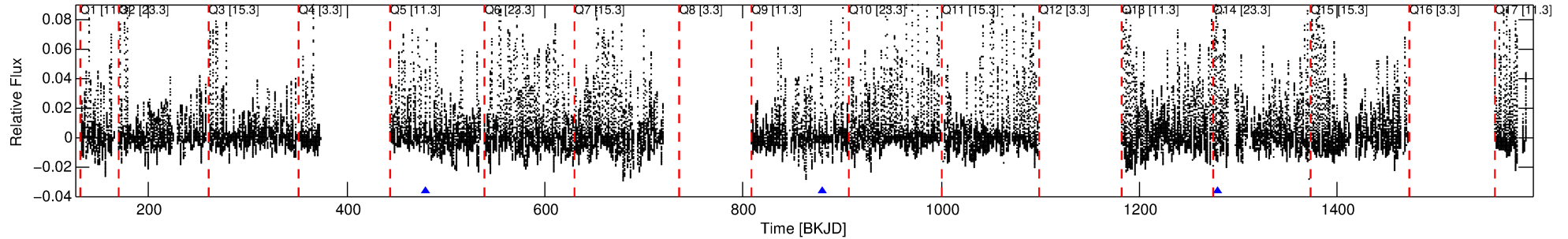
No Significant Match Found

DV One-Page Summary

KIC: 11285625 Candidate: 3 of 3 Period: 400.078 d

KOI: K07431 Corr: No Ephemeris Match

Kp: 10.14 R*: 2.80 Rs Teff: 7216.0 K Logg: 3.77 Fe/H: -0.120



TPS TCE Results:

Period = 400.07820 d
Epoch = 479.7259 BKJD

DV fit results are unavailable

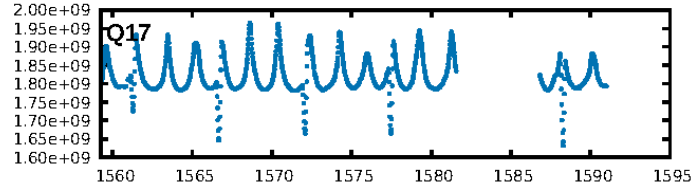
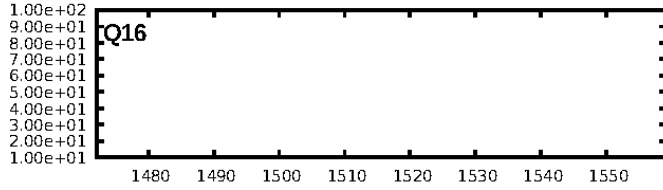
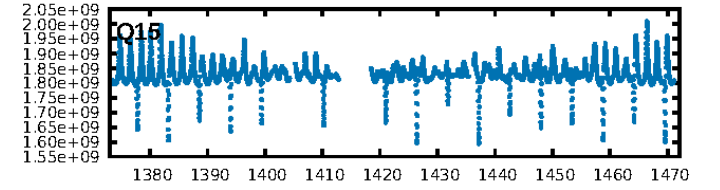
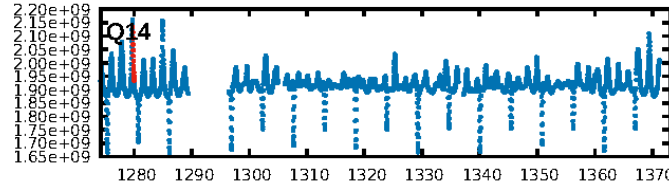
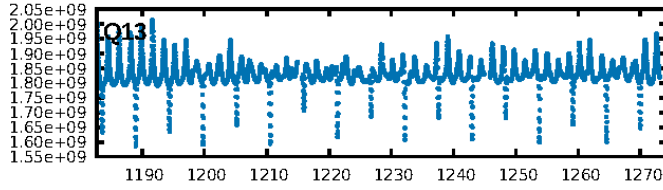
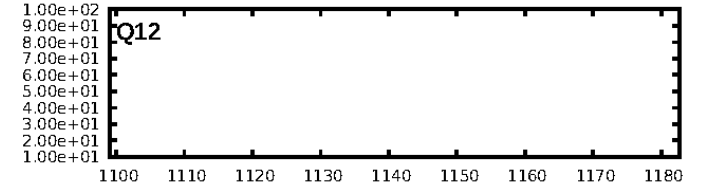
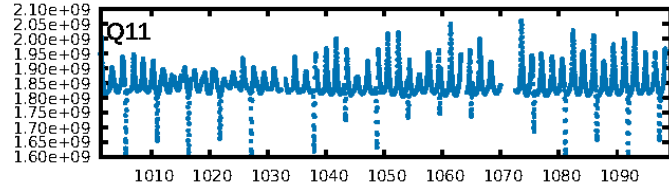
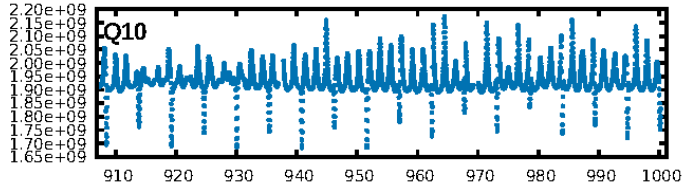
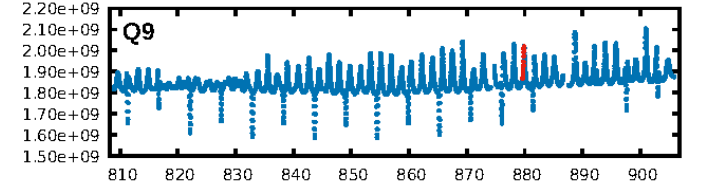
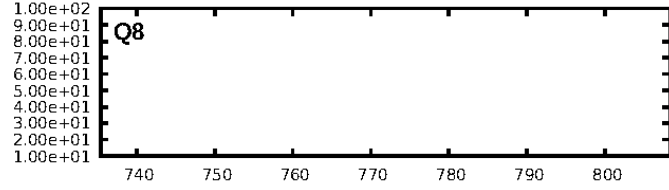
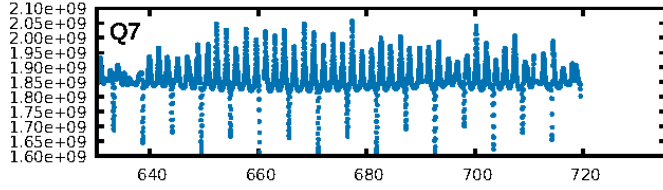
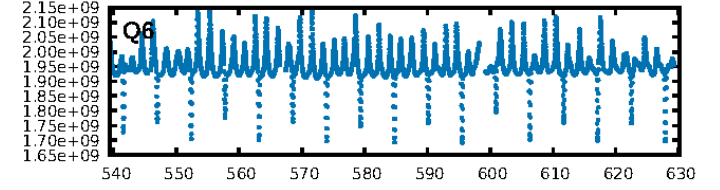
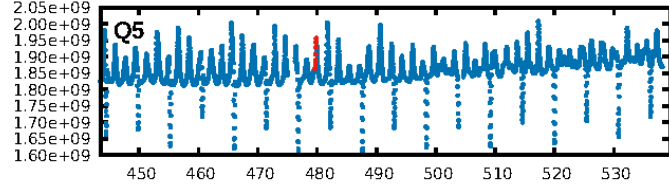
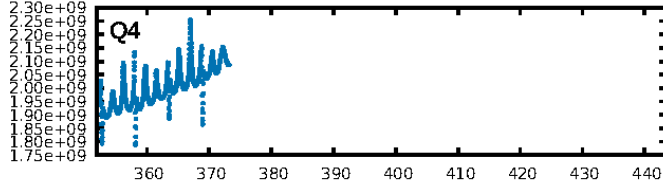
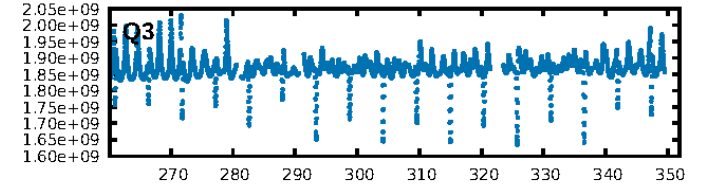
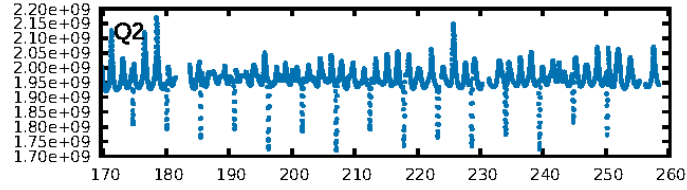
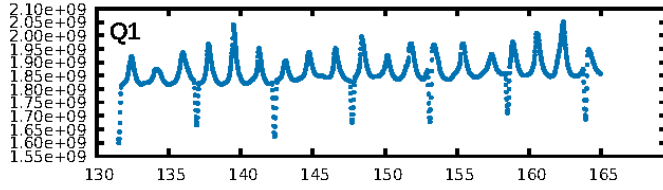
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [203.76 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: N/A
Centroid-sig: 99.0%
Centroid-so: 0.638 arcsec [0.28 σ]
OotOffset-rm: 1.157 arcsec [9.26 σ]
KicOffset-rm: 1.763 arcsec [12.58 σ]
OotOffset-st: 0/0/0/2 [2]
KicOffset-st: 0/0/0/2 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 1.00 [2/2]

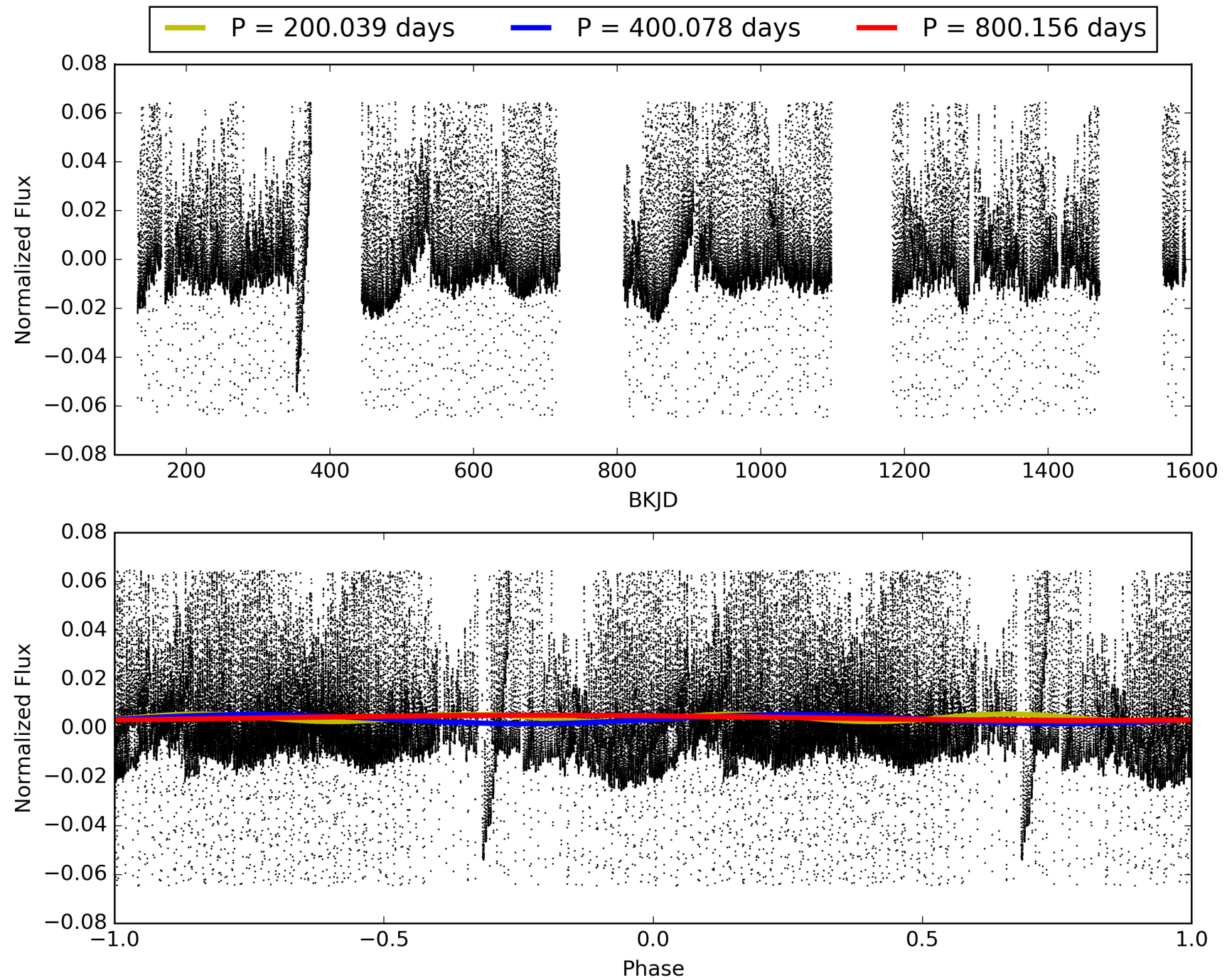
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:30:47 Z

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

TCE 011285625-03, PDC Light Curves

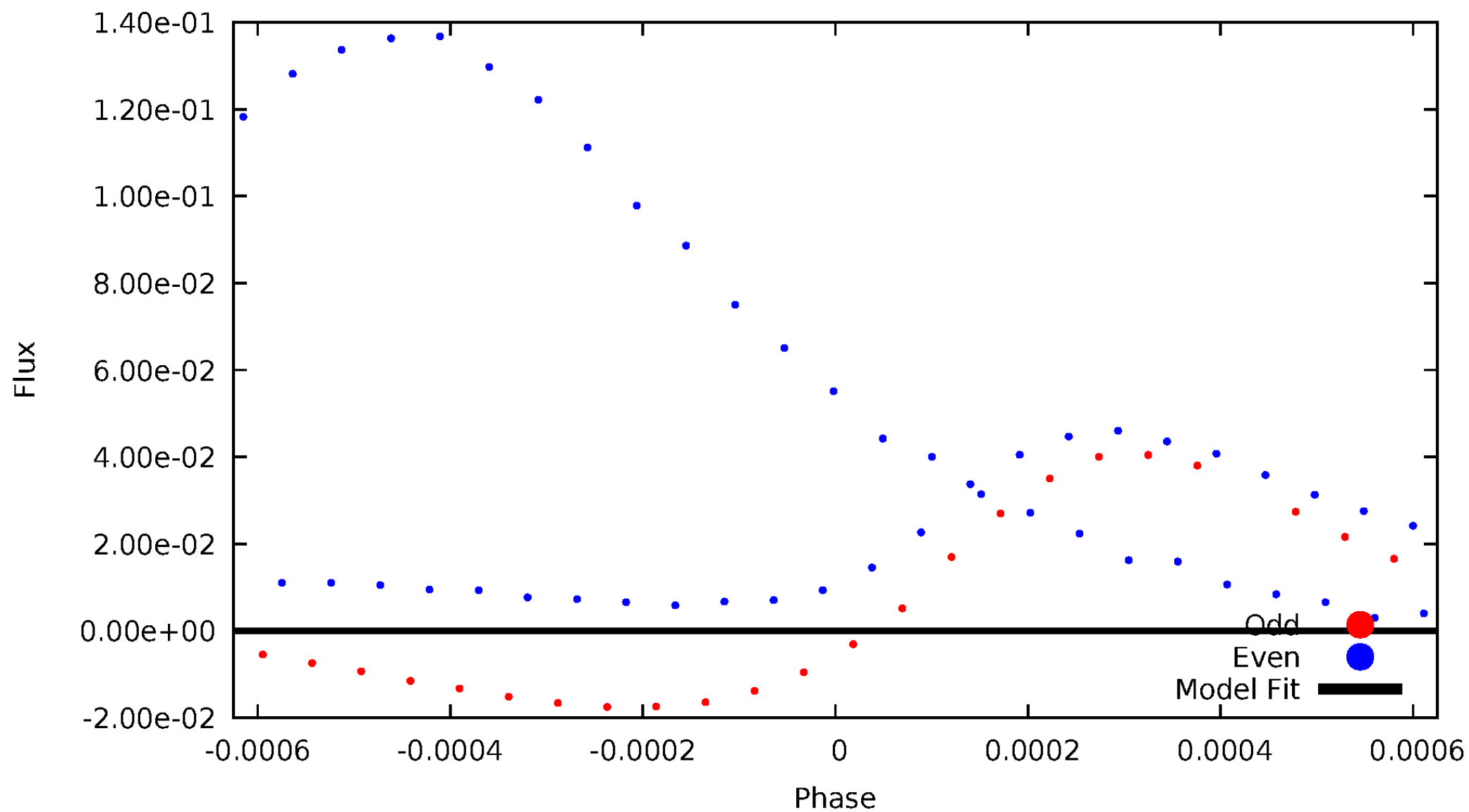


TCE 011285625-03



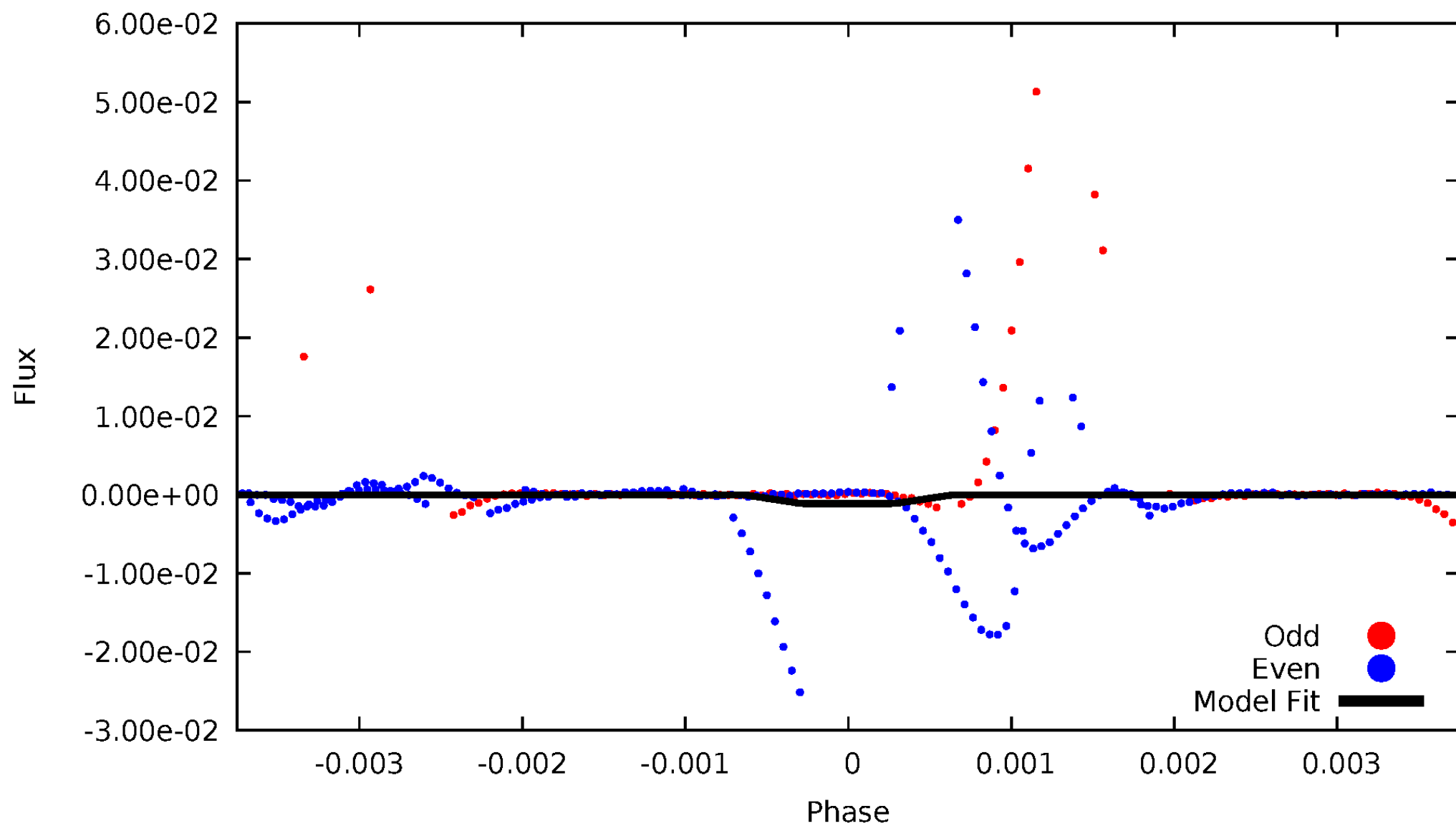
DV Odd/Even

TCE 011285625-03



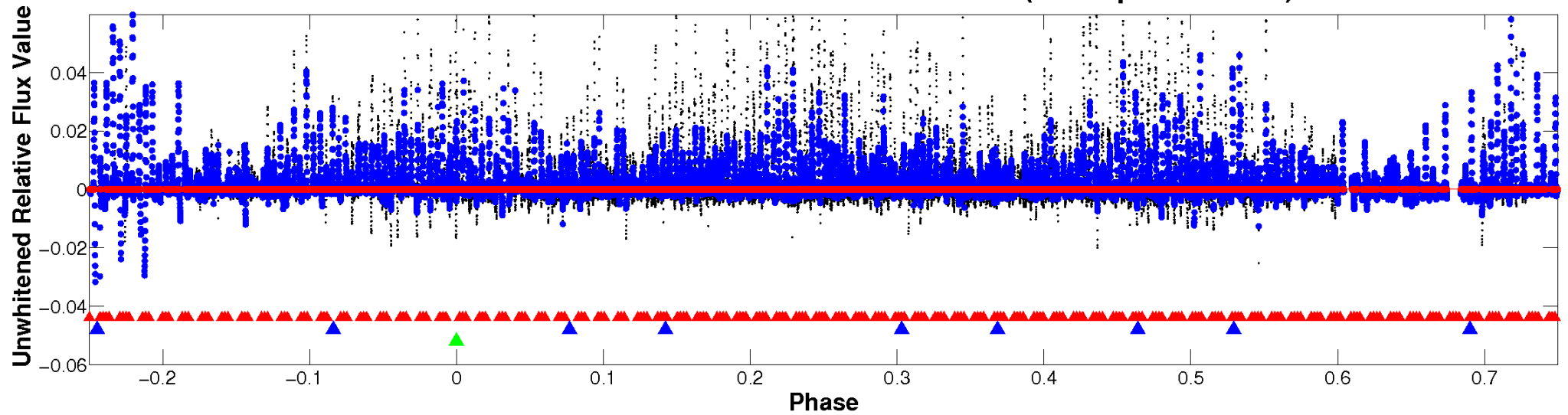
ALT Odd/Even

TCE 011285625-03



Non-Whitened Vs. Whitened Light Curve

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

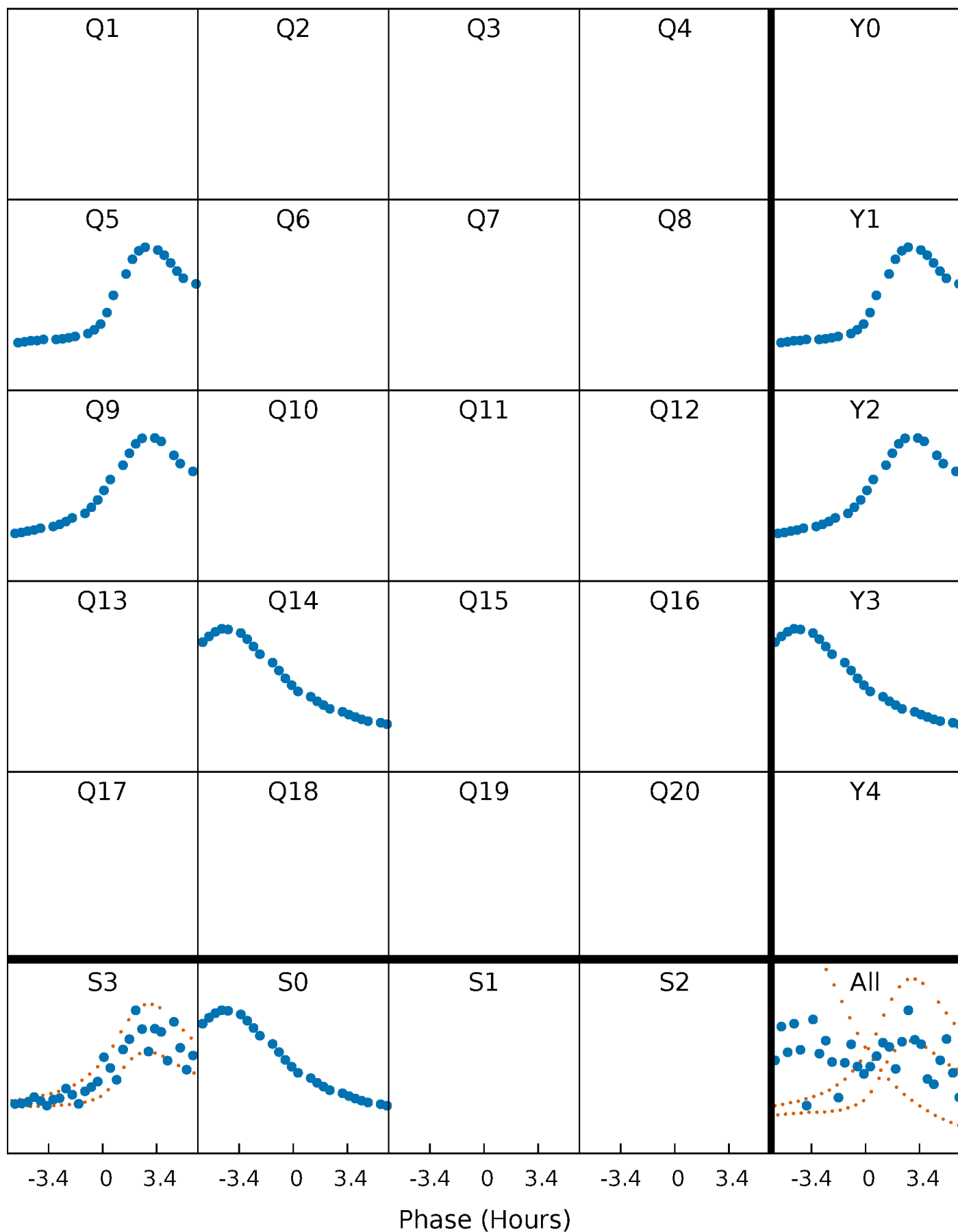


Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)



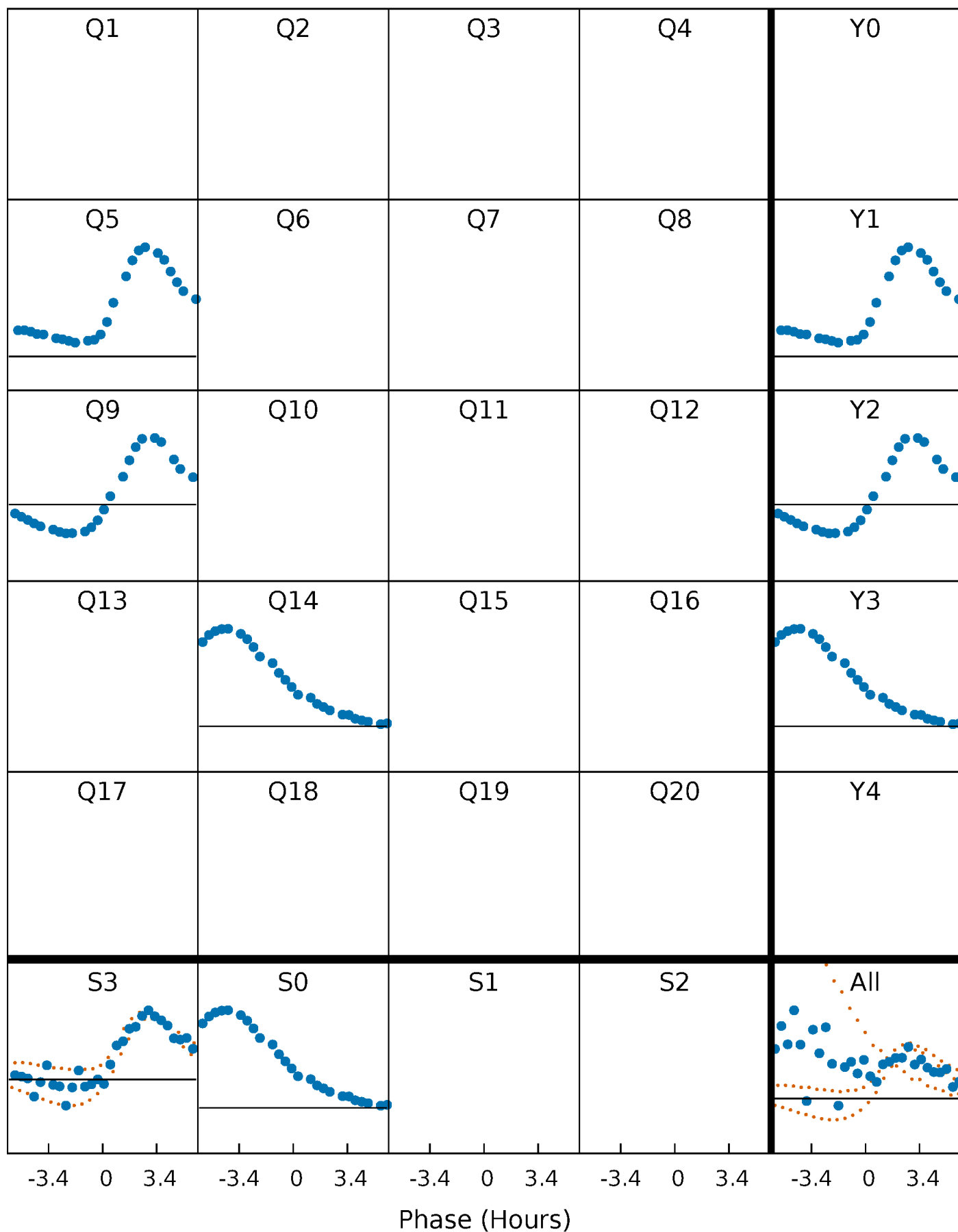
PDC Quarter-Phased Transit Curves

TCE 011285625-03 $P=400.078195$ Days $T_0=479.725860$ (BKJD)



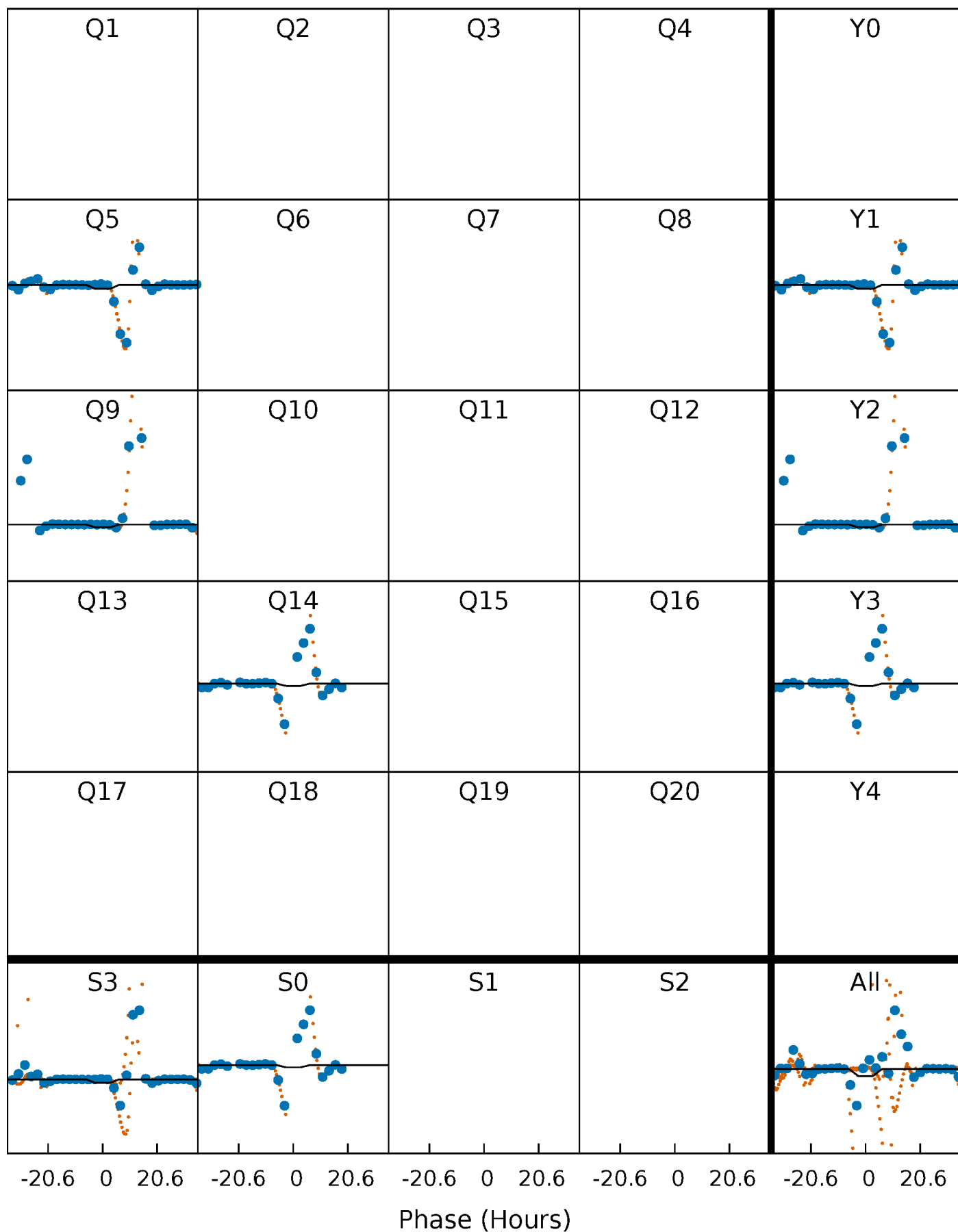
DV Quarter-Phased Transit Curves

TCE 011285625-03 $P=400.078195$ Days $T_0=479.725860$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

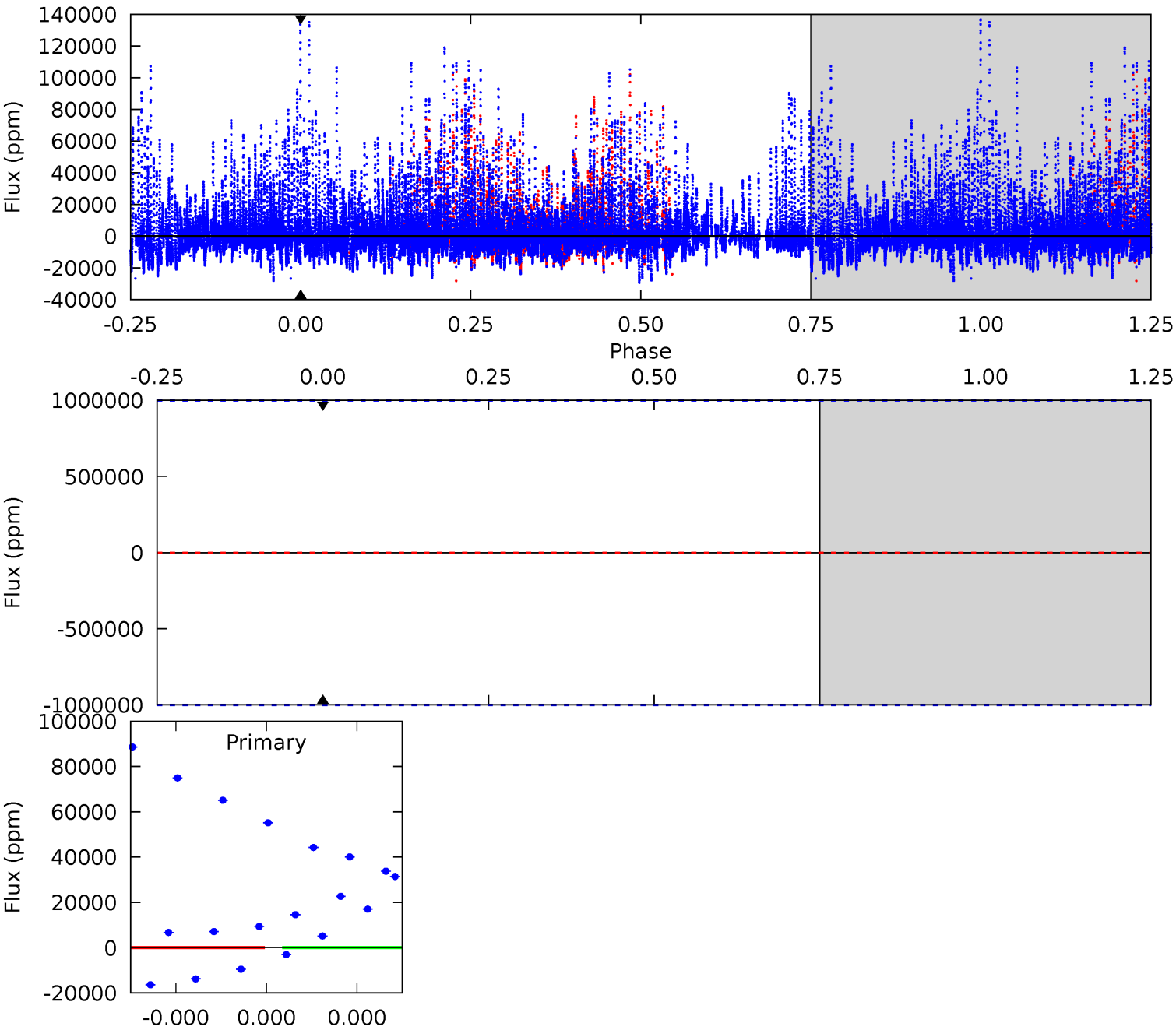
TCE 011285625-03 P=400.078195 Days $T_0=479.332893$ (BKJD)



DV Model-Shift Uniqueness Test

011285625-03, P = 400.078195 Days, E = 79.647665 Days

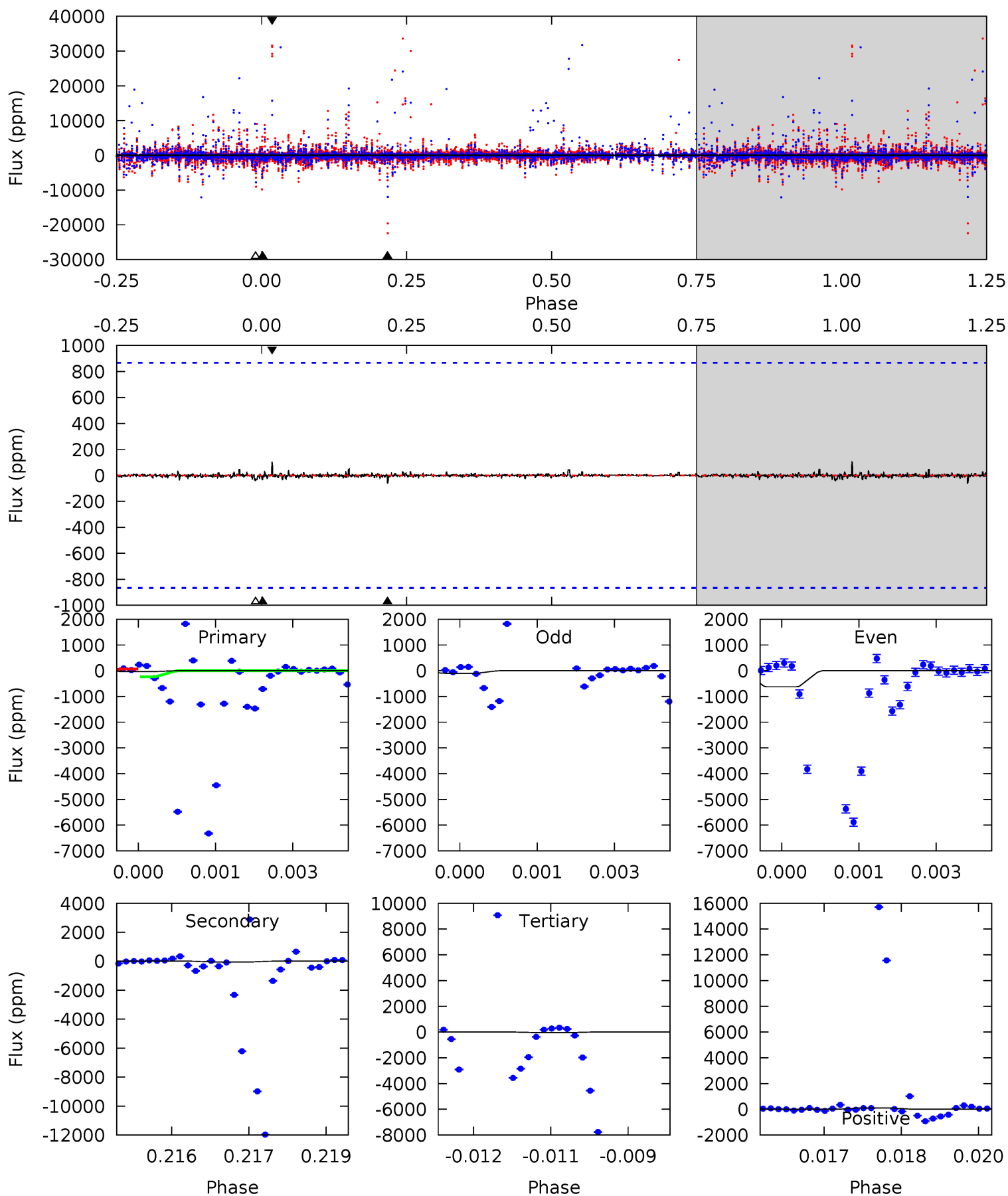
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011285625-03, P = 400.078195 Days, E = 79.254698 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.20	0.36	0.27	0.63	5.40	3.21	0.04	-0.07	-0.43	0.09	-0.27	1.03	5.26	0.64	0.54



Stellar Parameters For KIC 011285625

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7216^{+201}_{-251}	$3.768^{+0.392}_{-0.098}$	$-0.120^{+0.250}_{-0.350}$	$2.804^{+0.509}_{-1.187}$	$1.682^{+0.186}_{-0.345}$	$0.107^{+0.369}_{-0.033}$
	+3%/-3%	+10%/-3%	+208%/-292%	+18%/-42%	+11%/-21%	+343%/-31%
Source	PHO1	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 011285625-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$20.59^{+22.26}_{-14.60}$	644^{+42}_{-65}	-5067^{+45578}_{-35054}	$-2081.438^{+408115.387}_{-427672.444}$
Alt.	-57 ± 160	$22.22^{+25.99}_{-15.45}$	643^{+42}_{-70}	2715^{+1462}_{-5776}	61^{+1113}_{-209}

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

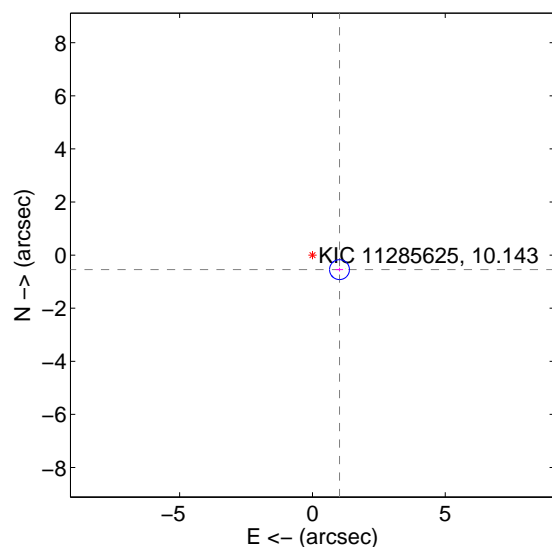
Supplemental centroid analysis for 011285625-03. **Kepler magnitude: 10.14.** Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

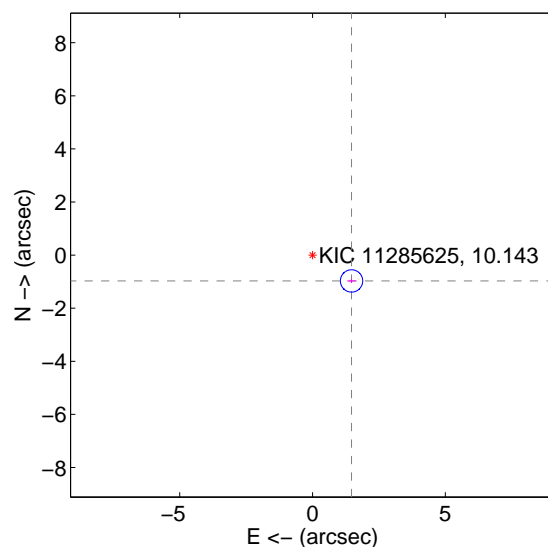
The direct PRF centroid is offset from the target star catalog position by about 0.62 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.157 ± 0.125	9.26	-1.019 ± 0.137	-0.547 ± 0.069
PRF-fit source offset from KIC position	1.763 ± 0.140	12.58	-1.470 ± 0.160	-0.973 ± 0.076
photometric centroid source offset	0.64 ± 2.32	0.28	-0.17 ± 1.74	0.62 ± 2.36

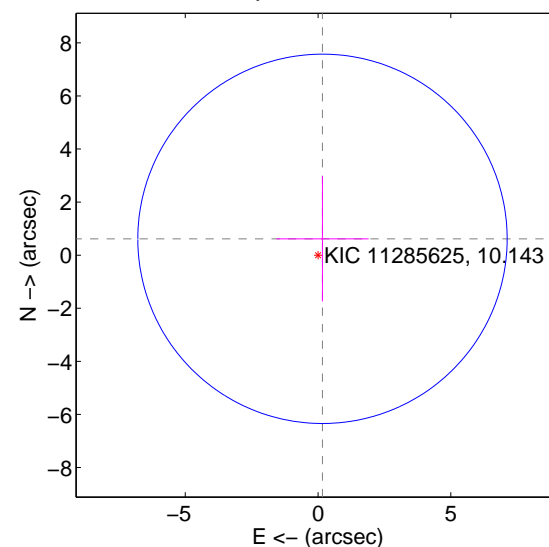
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

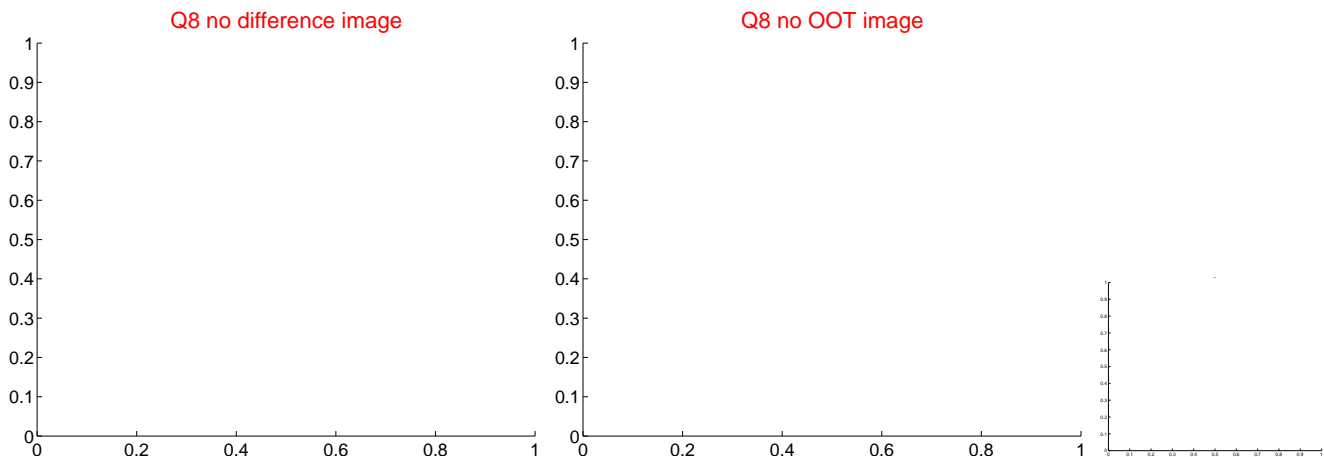
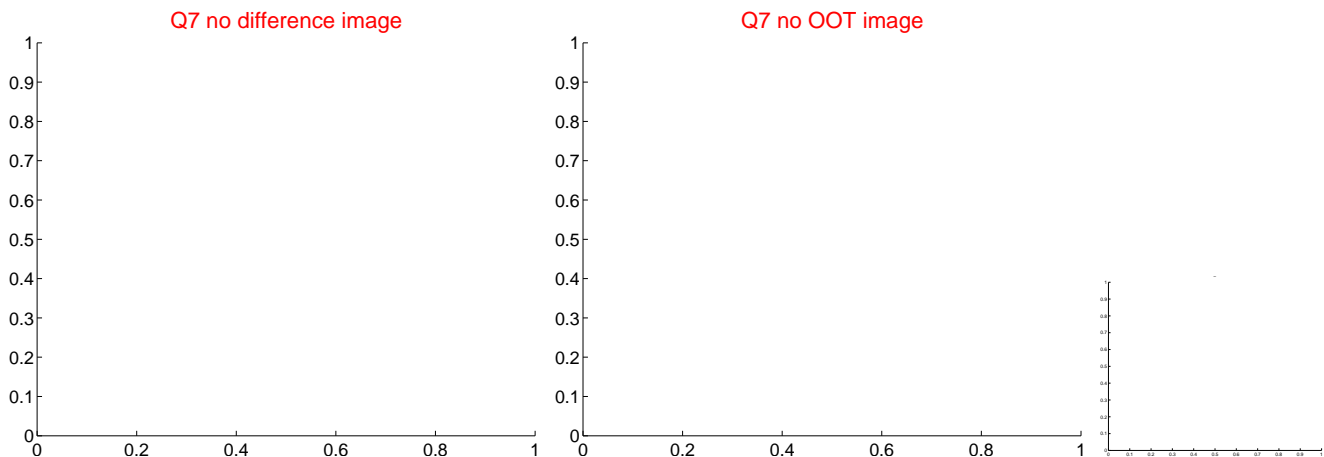
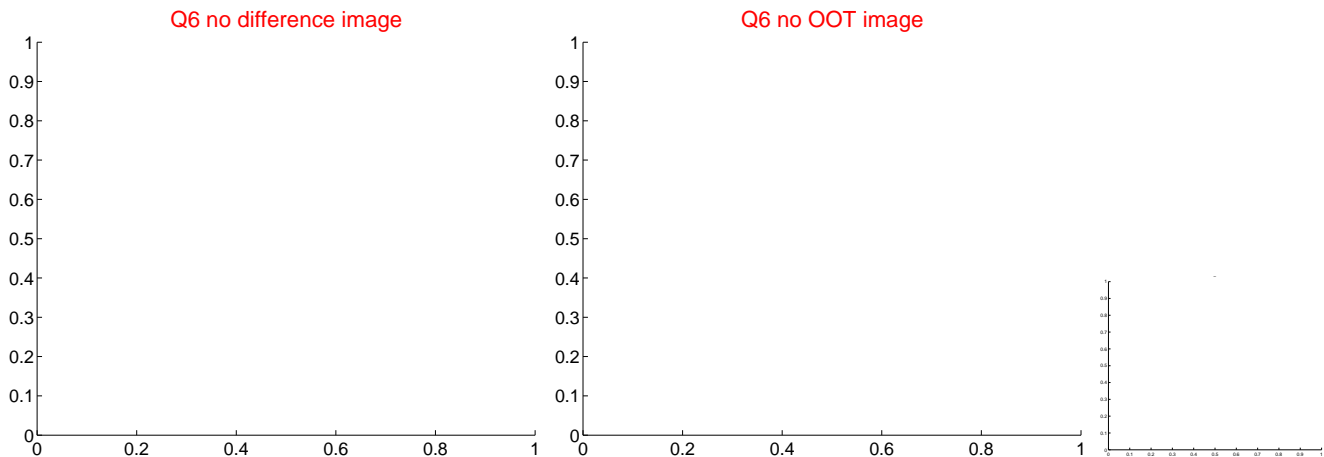
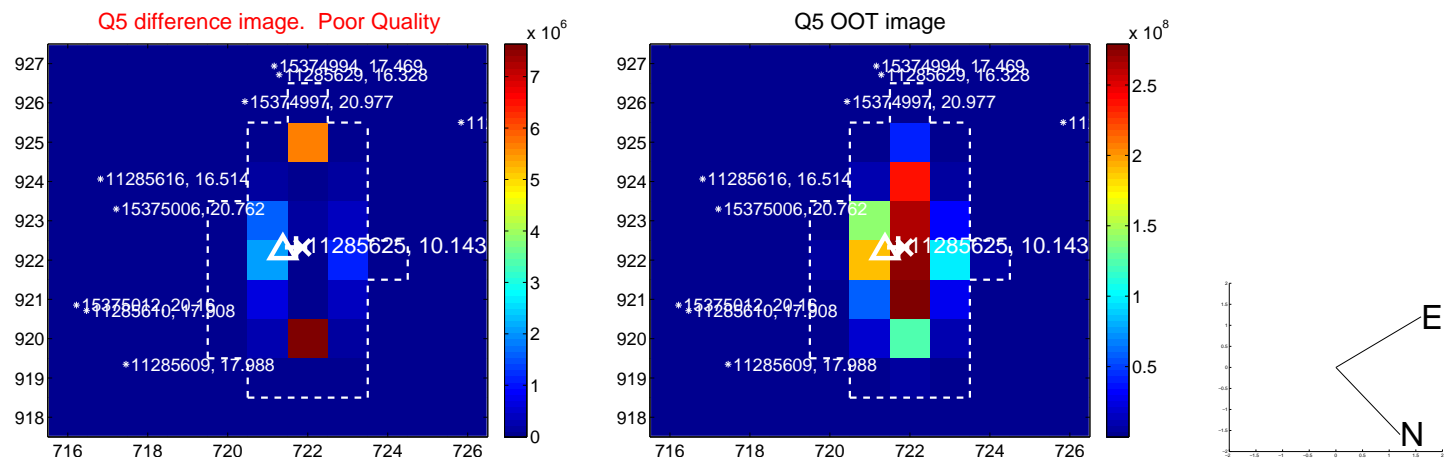


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

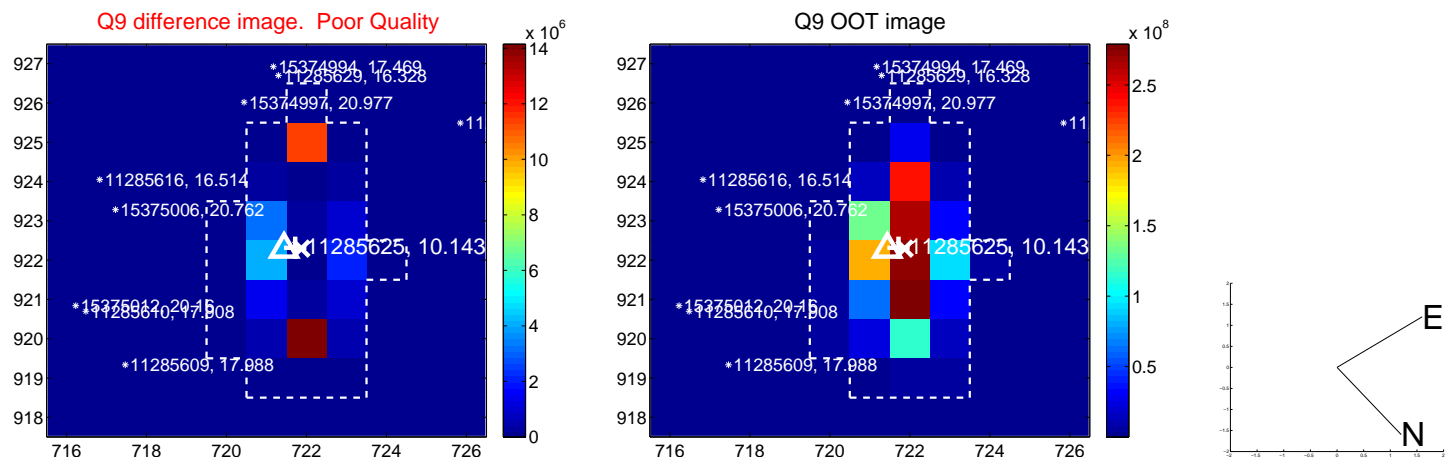
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



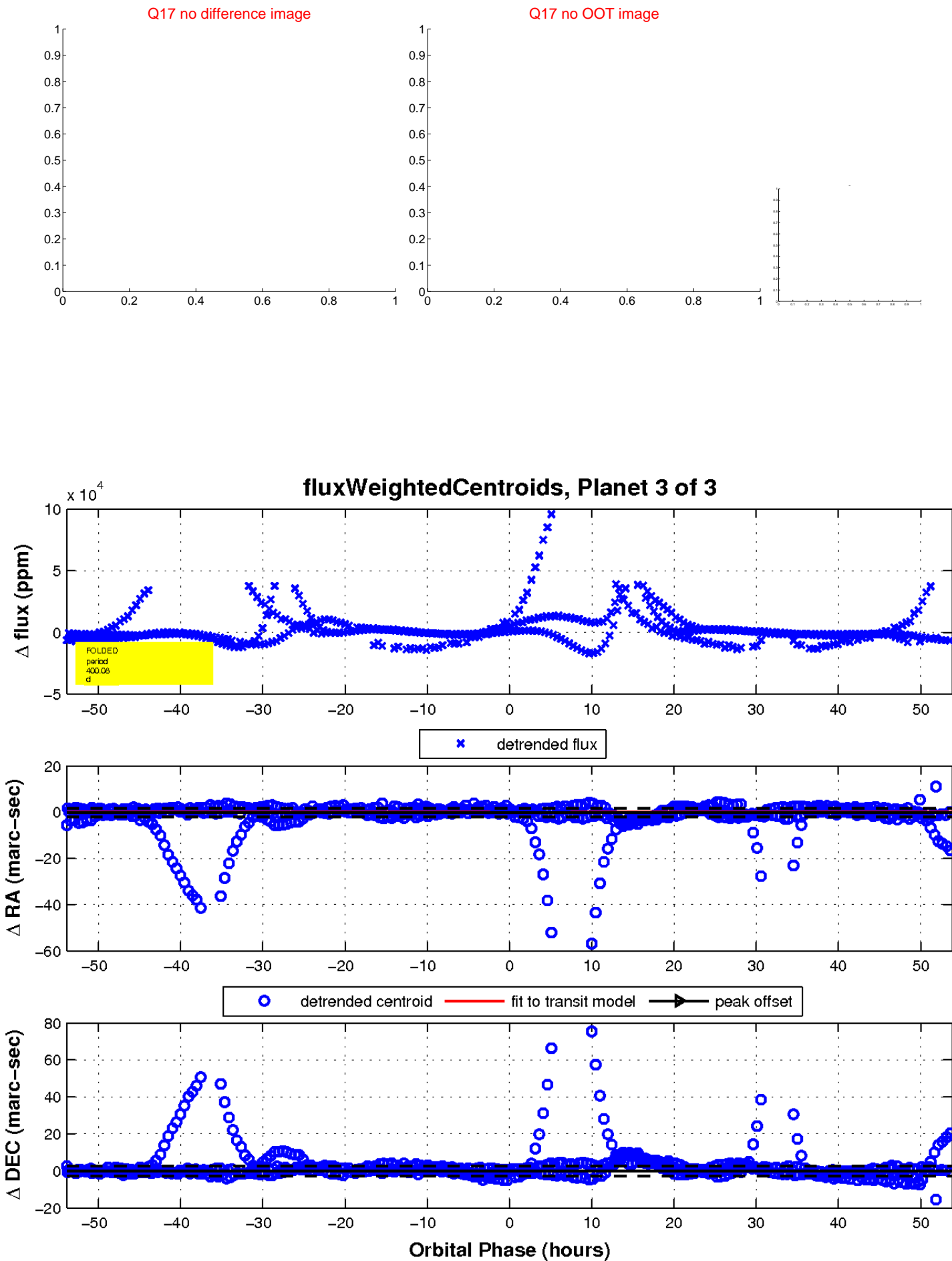
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

