

KIC 007287592

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})
007287592-01	OBS	No	1.316070	132.332682	18.7	8.762	9.7	4.8	1.84	6641	0.81	8666.51
007287592-02	OBS	No	32.656059	142.665051	533.7	9.093	9.2	6.2	1.84	6641	8.14	119.75
007287592-03	OBS	No	36.927082	157.608270	472.8	3.904	9.1	6.1	1.84	6641	7.71	101.65

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007287592-01	OBS	FP	0.00	1	0	0	0	LPP_DV
007287592-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
007287592-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT

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

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

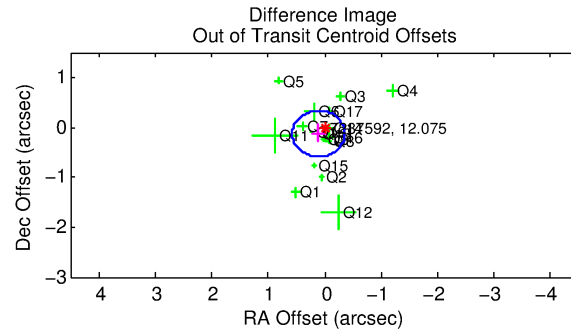
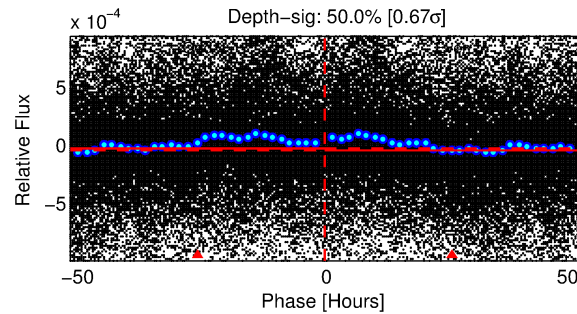
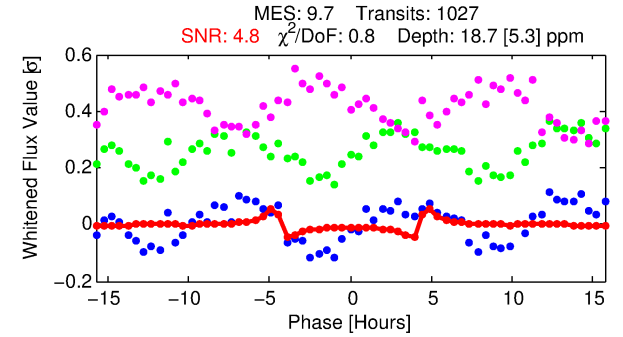
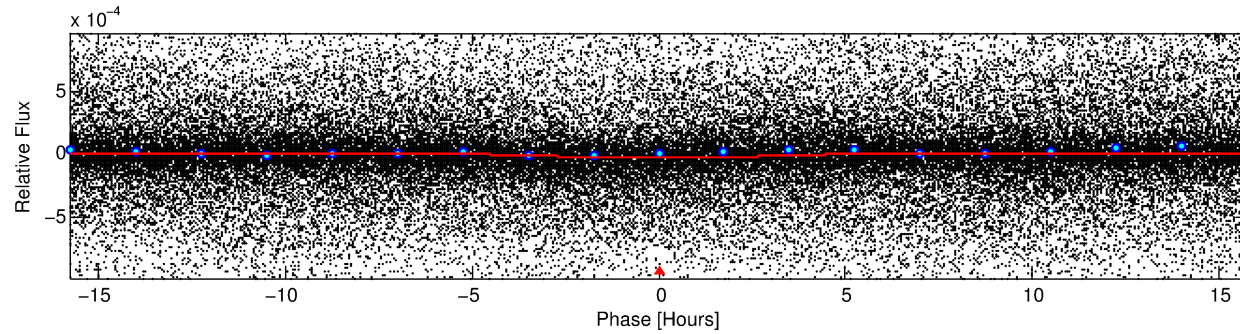
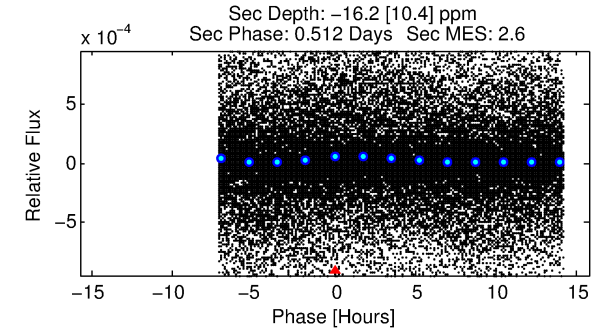
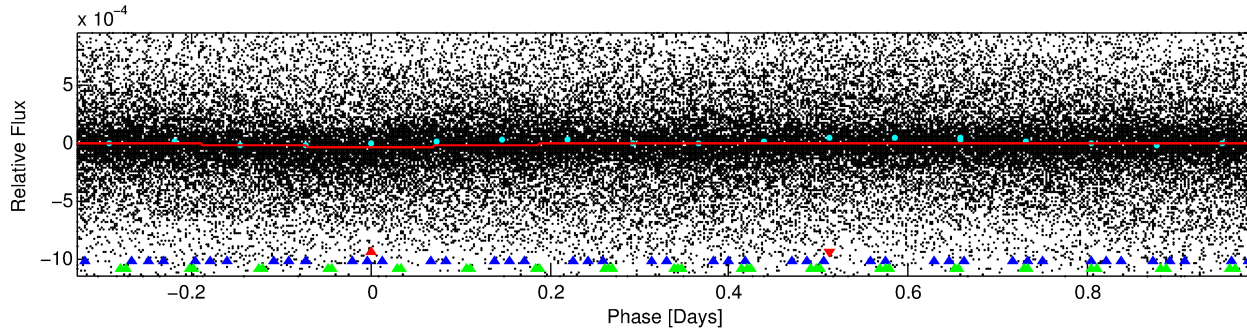
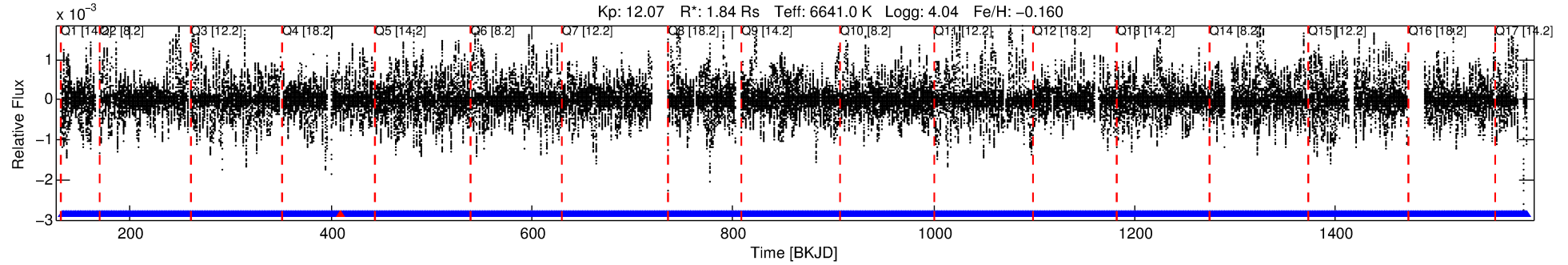
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007287592-01

No Significant Match Found

DV One-Page Summary

KIC: 7287592 Candidate: 1 of 3 Period: 1.316 d



DV Fit Results:

Period = 1.31607 [0.00002] d
Epoch = 132.3327 [0.0036] BKJD
Rp/R* = 0.0040 [0.0023]
a/R* = 1.28 [1.60]
b = 0.33 [8.66]
Seff = 8666.51 [3360.66]
Teq = 2460 [239] K
Rp = 0.81 [0.50] Re
a = 0.0261 [0.0063] AU
Ag = N/A
Teffp = N/A

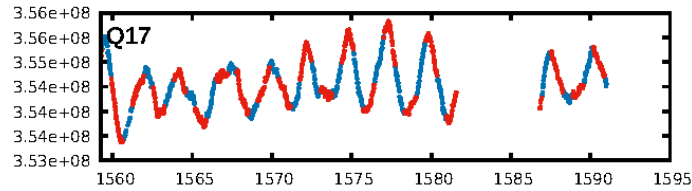
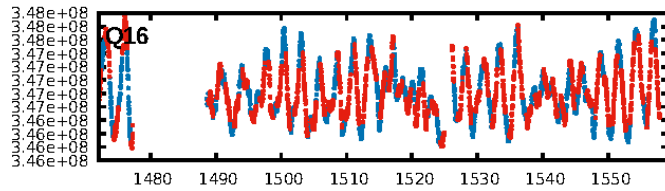
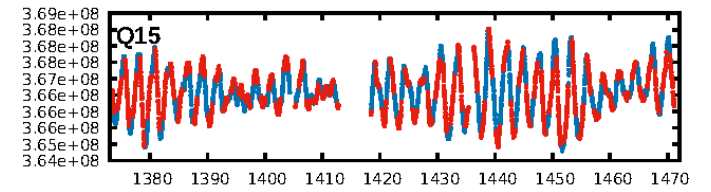
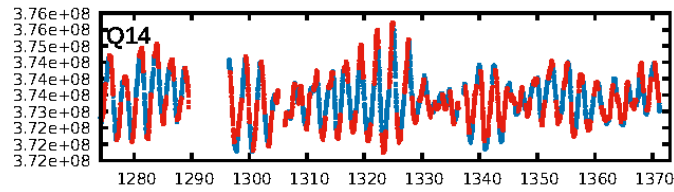
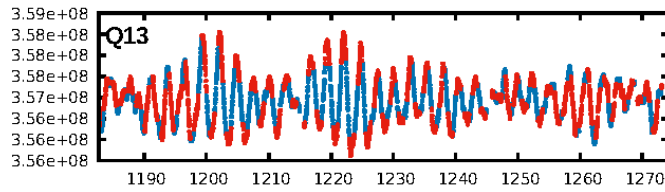
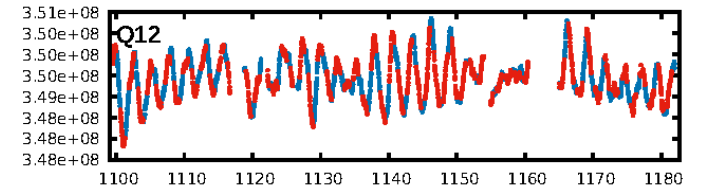
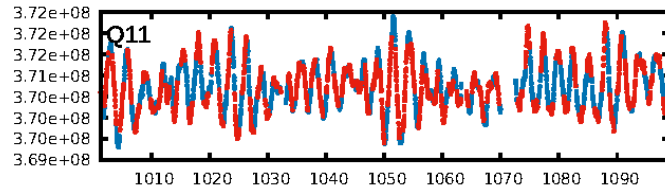
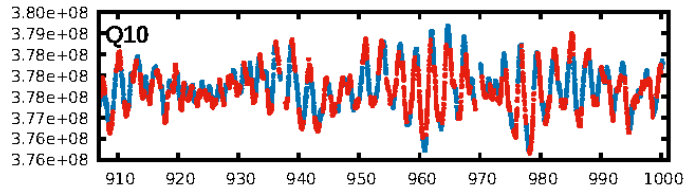
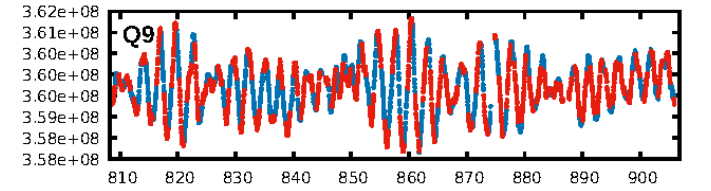
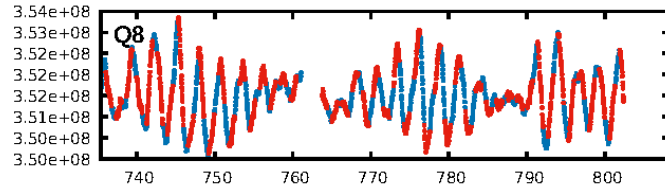
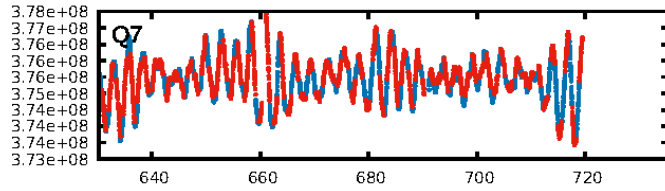
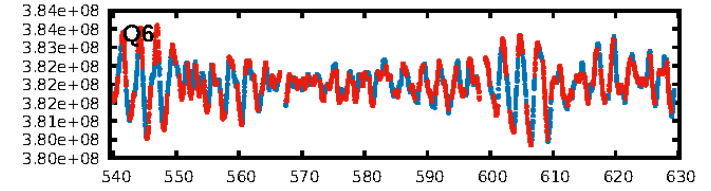
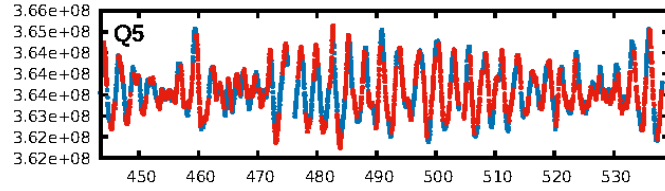
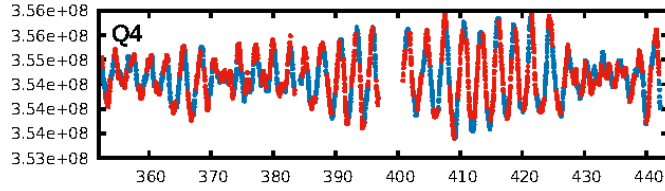
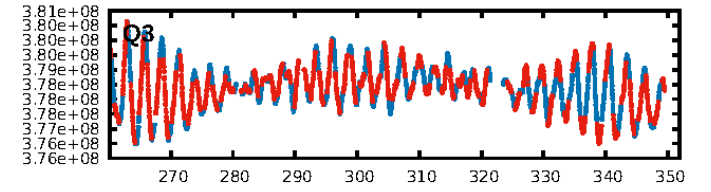
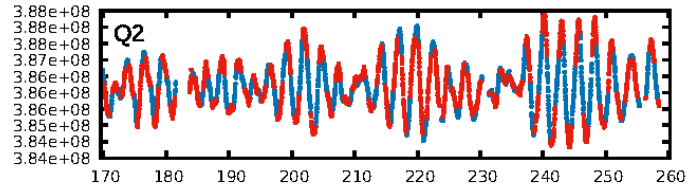
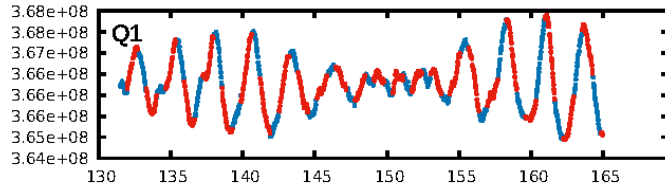
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [59.56σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.19e-14
RollingBand-fgt: 1.00 [981/982]
GhostDiagnostic-chr: 0.3562
Centroid-sig: 0.0%
Centroid-so: 1.813 arcsec [2.74σ]
OotOffset-rm: 0.169 arcsec [1.10σ]
KicOffset-rm: 0.099 arcsec [0.57σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.59 [10/17]
DiffImageOverlap-fno: 1.00 [17/17]

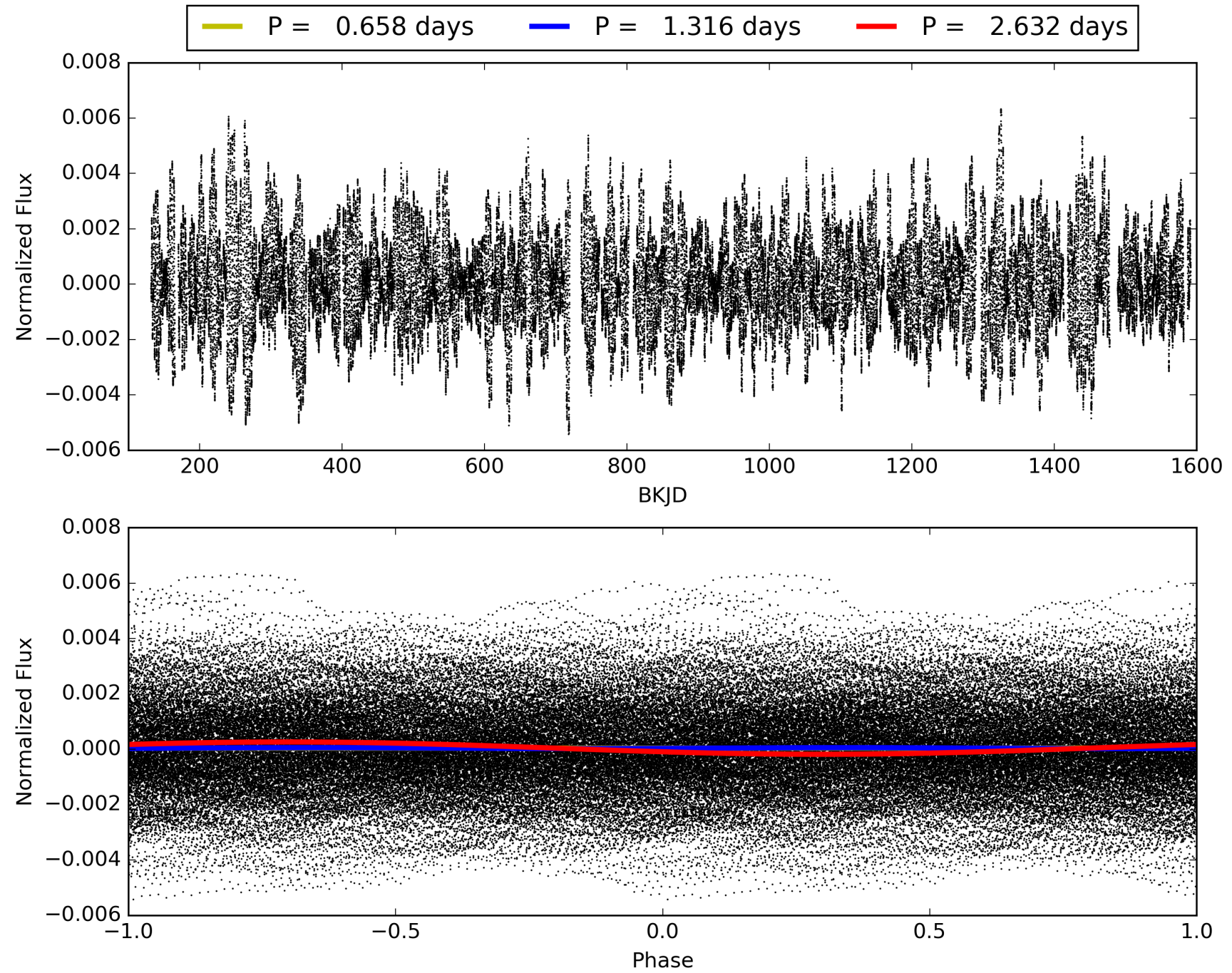
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:49:34 Z

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

TCE 007287592-01, PDC Light Curves

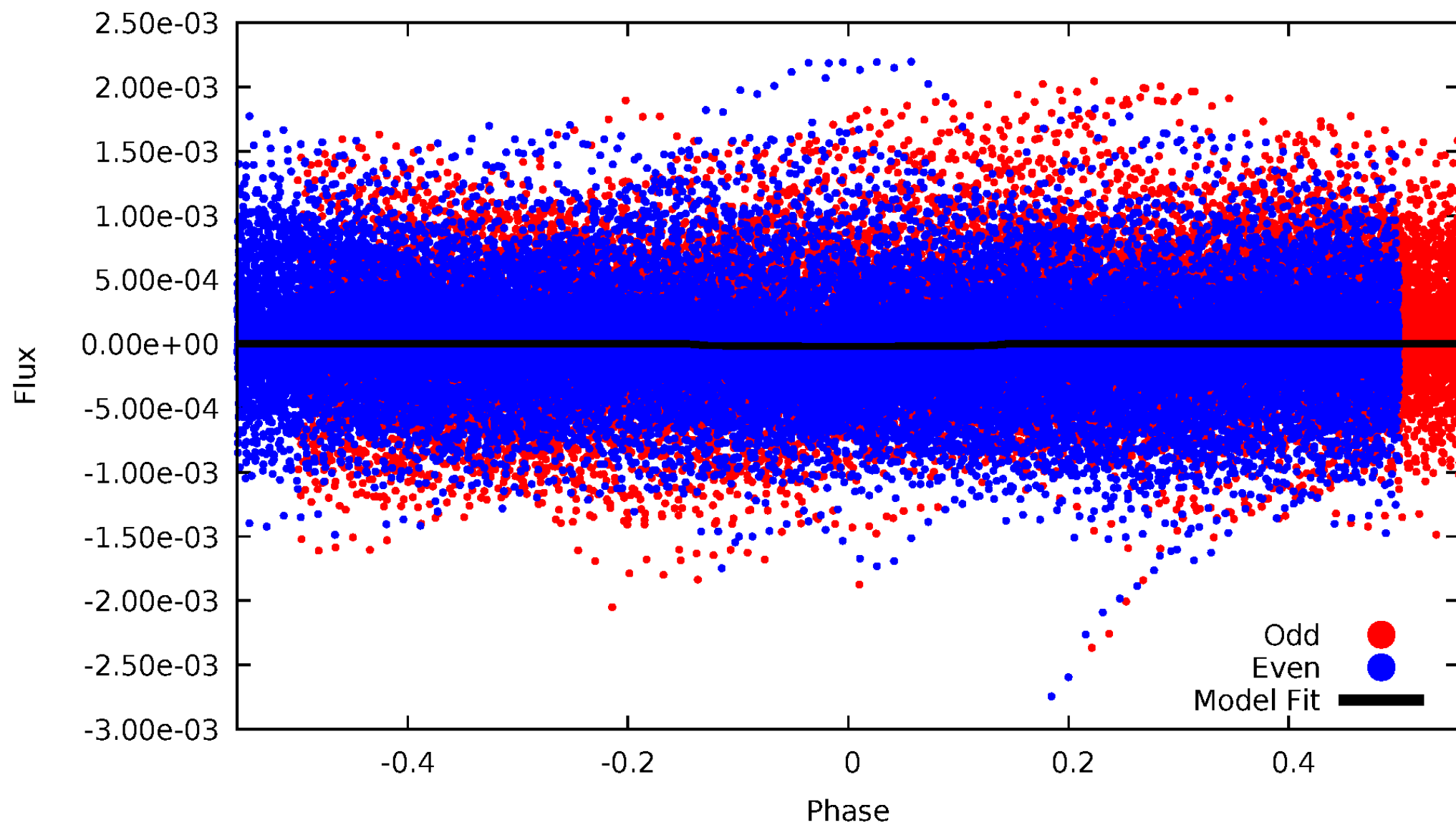


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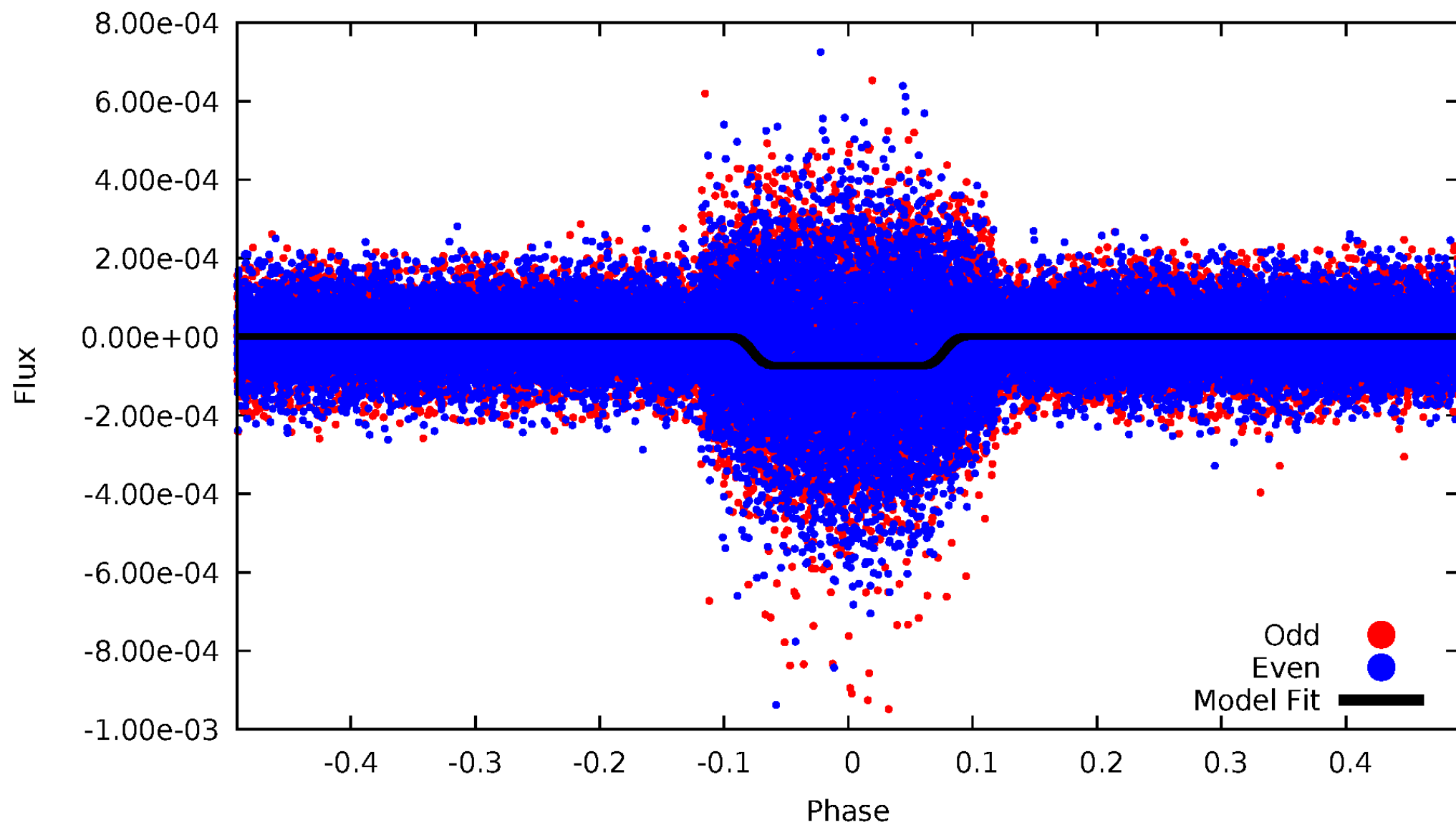
DV Odd/Even

TCE 007287592-01

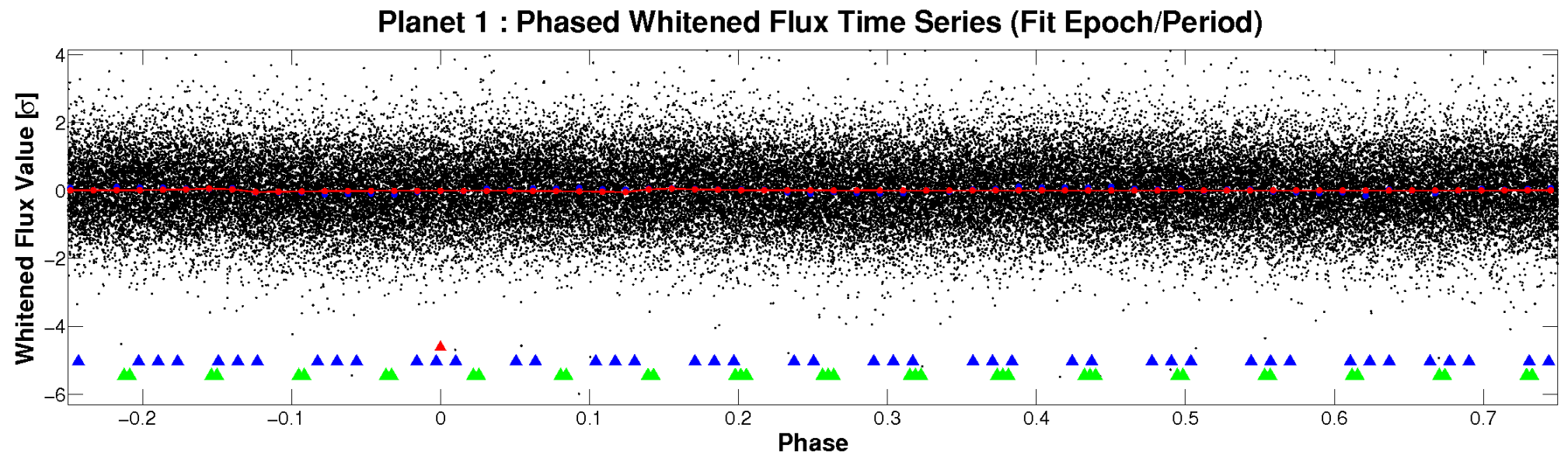
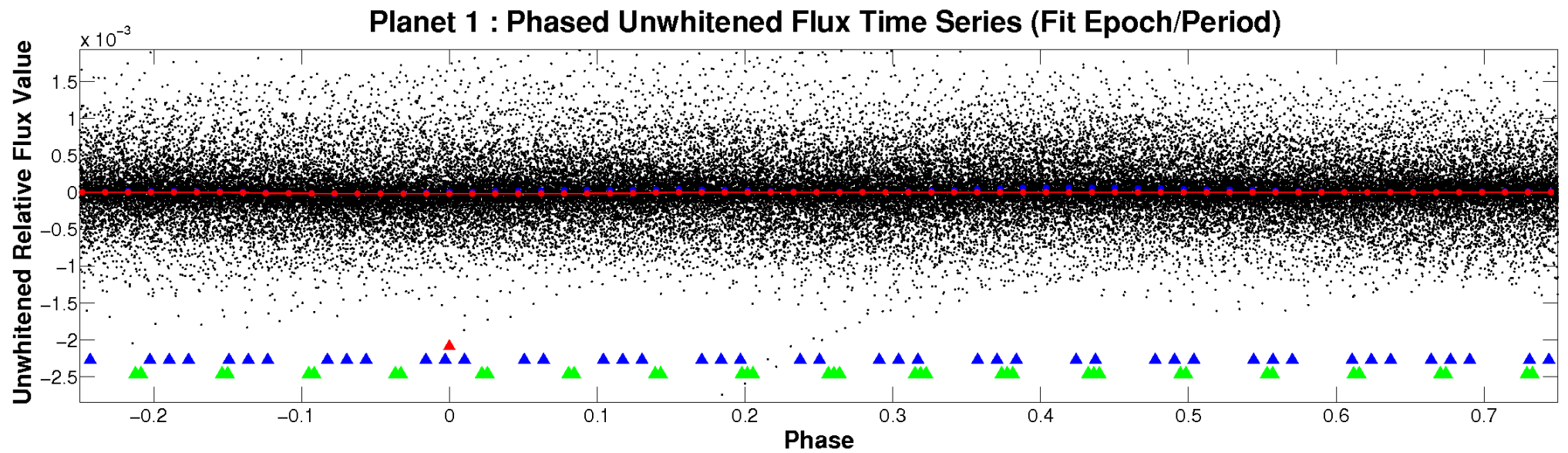


ALT Odd/Even

TCE 007287592-01

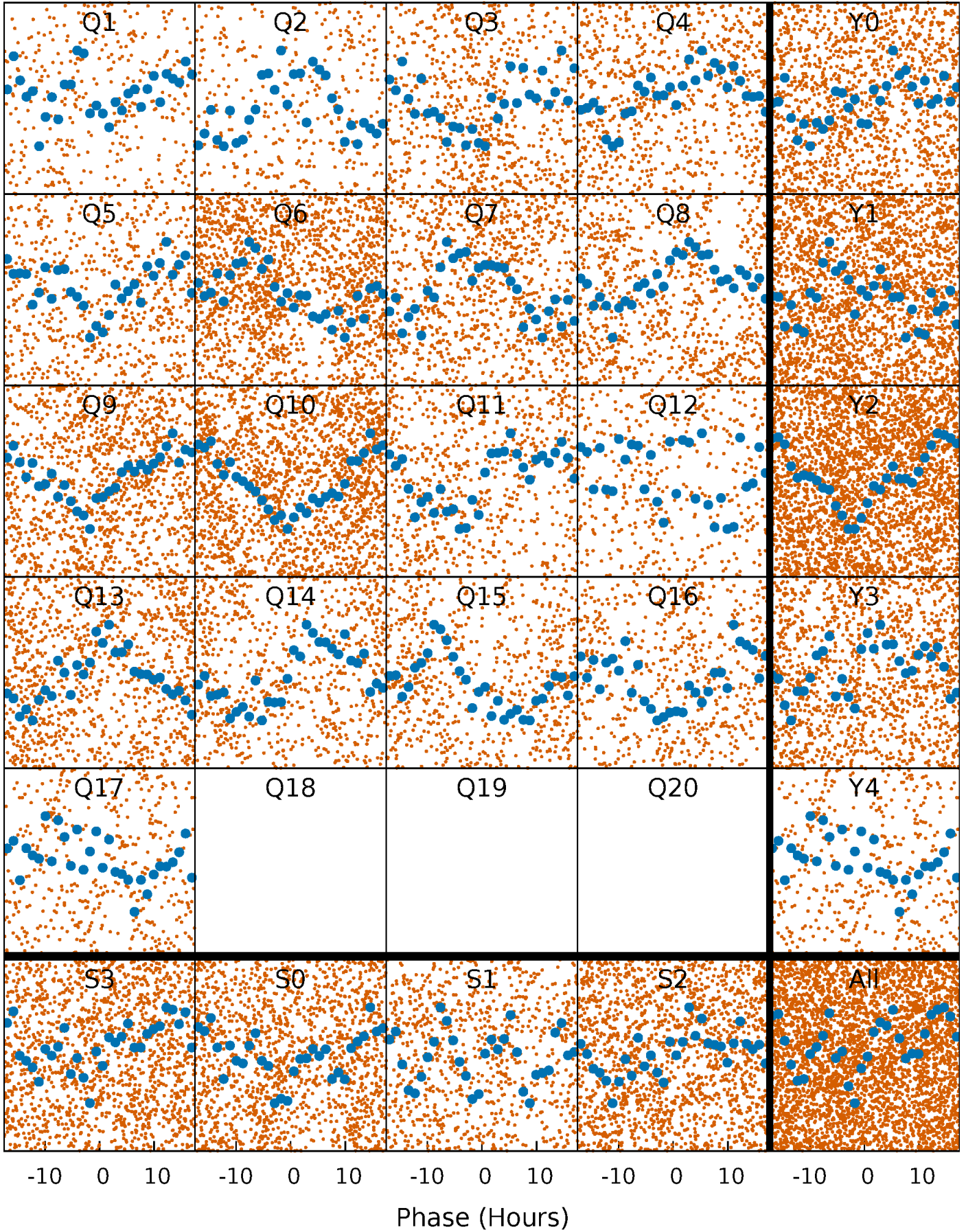


Non-Whitened Vs. Whitened Light Curve



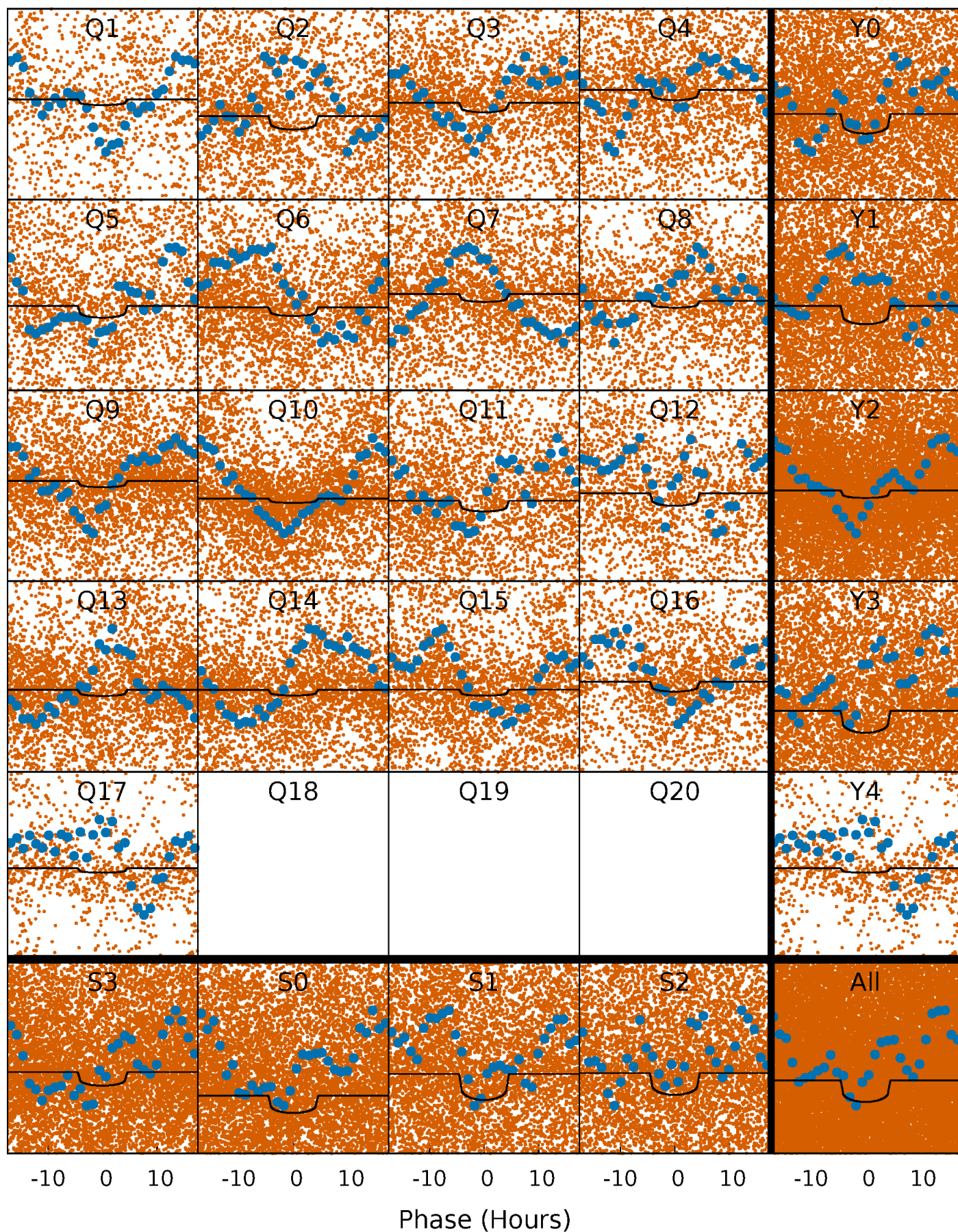
PDC Quarter-Phased Transit Curves

TCE 007287592-01 P= 1.316070 Days $T_0=132.332682$ (BKJD)



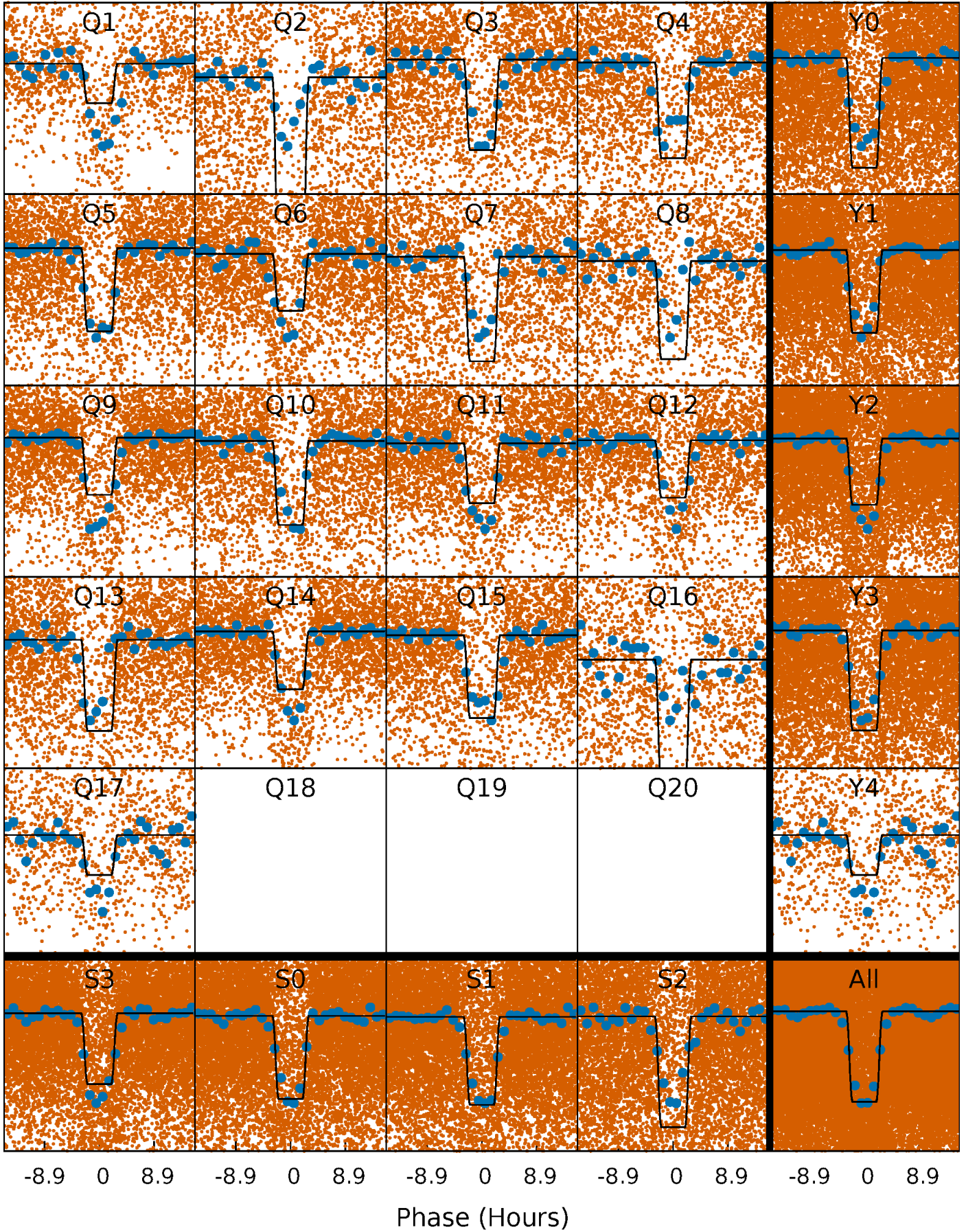
DV Quarter-Phased Transit Curves

TCE 007287592-01 P= 1.316070 Days $T_0=132.332682$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

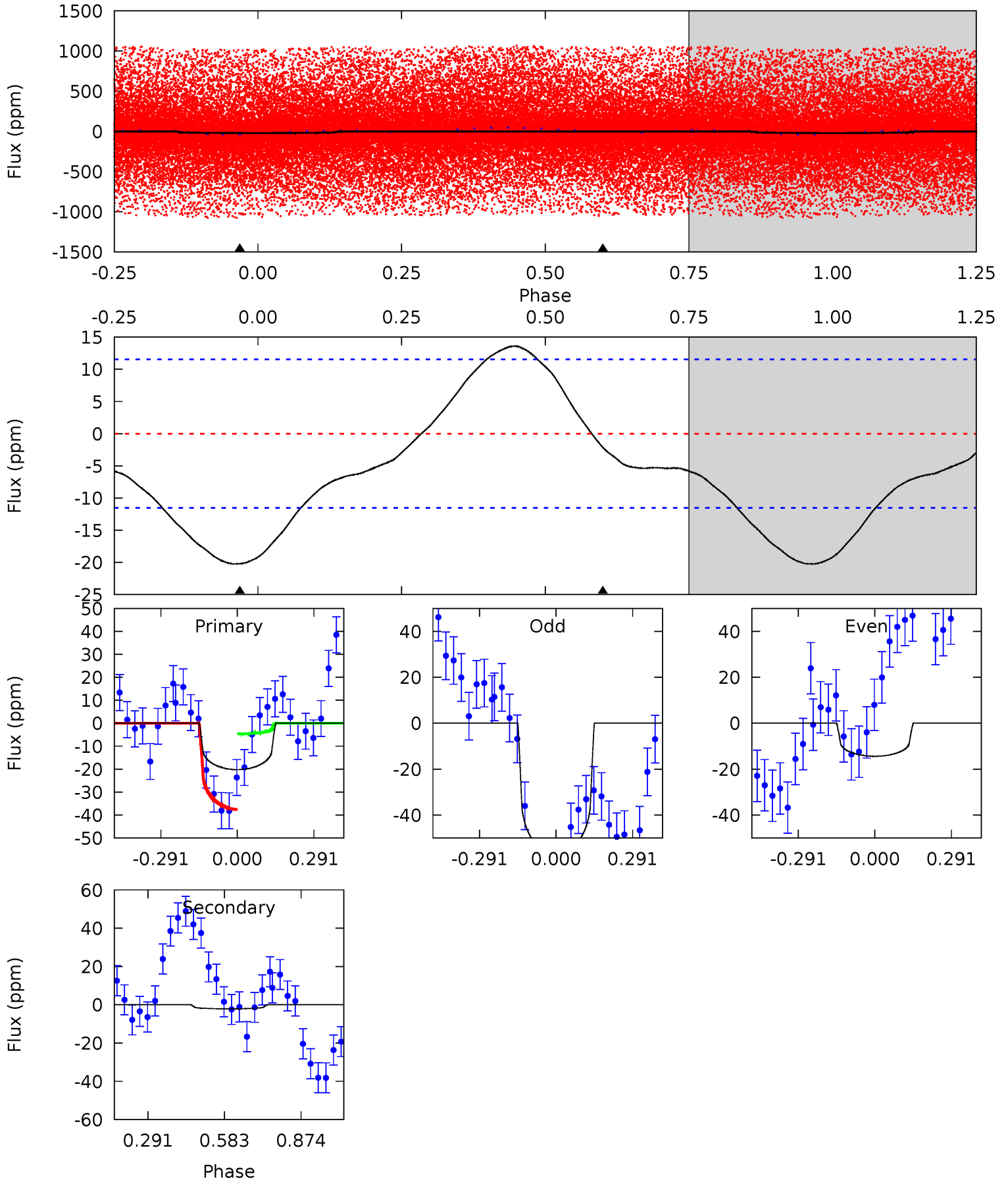
TCE 007287592-01 P= 1.315941 Days $T_0=132.329854$ (BKJD)



DV Model-Shift Uniqueness Test

007287592-01, P = 1.316070 Days, E = 131.016612 Days

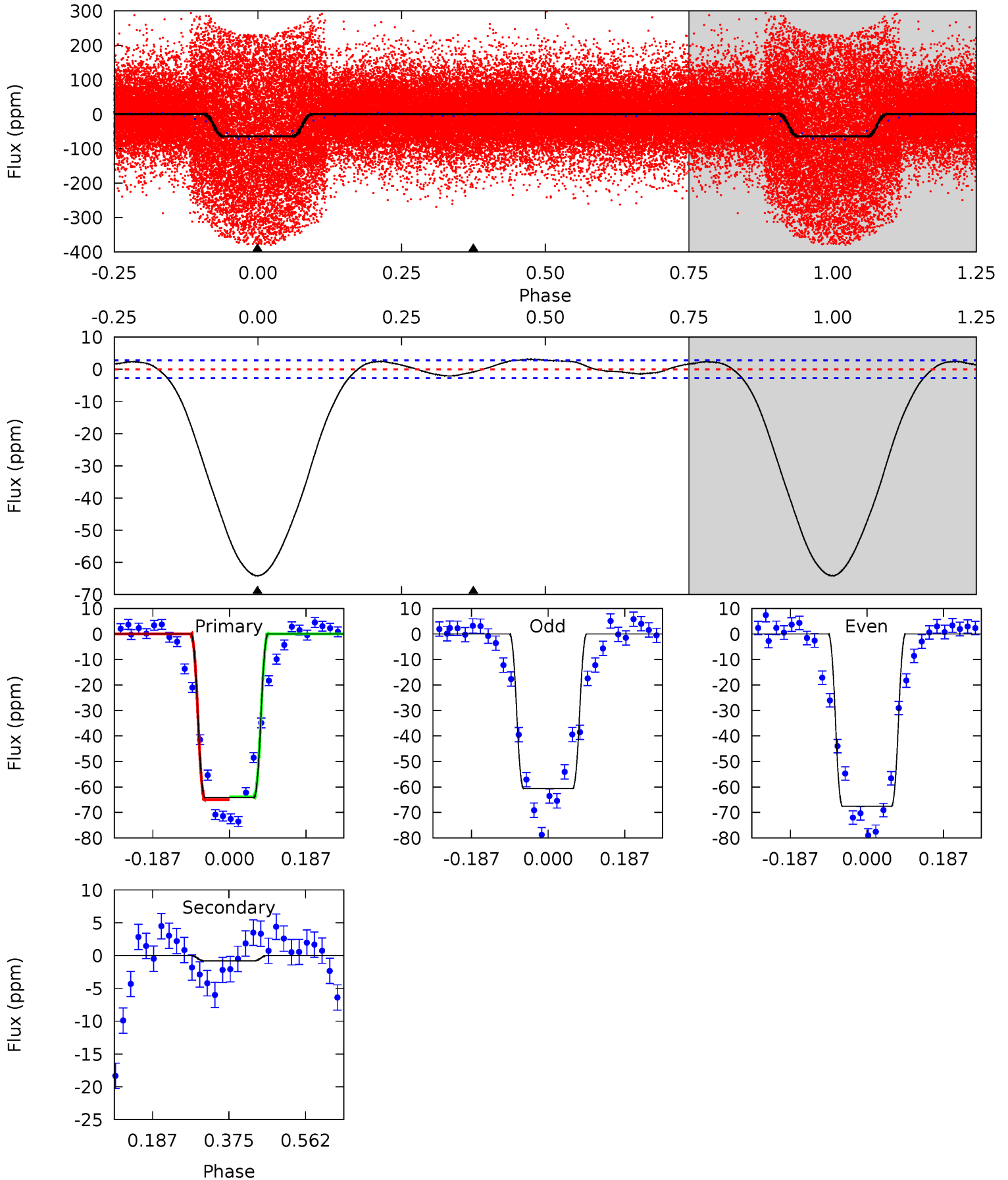
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.60	0.80	0	0	4.34	1.05	0.99	7.60	7.60	0.80	0.80	8.80	-0.13	0.40	6.58



Alt Model-Shift Uniqueness Test

007287592-01, P = 1.315941 Days, E = 131.013913 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
103.5	1.32	0	0	4.43	1.32	2.08	103.5	103.5	1.32	1.32	5.49	1.02	0.05	0.96



Stellar Parameters For KIC 007287592

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6641^{+150}_{-200}	$4.044^{+0.210}_{-0.140}$	$-0.160^{+0.250}_{-0.250}$	$1.839^{+0.404}_{-0.493}$	$1.371^{+0.165}_{-0.248}$	$0.311^{+0.377}_{-0.129}$
	+2%/-3%	+5%/-3%	+156%/-156%	+22%/-27%	+12%/-18%	+121%/-41%
Source	PHO1	FLK73	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 007287592-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-2 ± 3	$0.84^{+0.45}_{-0.45}$	3420^{+234}_{-252}	3842^{+1656}_{-7430}	$0.988^{+4.015}_{-1.137}$
Alt.	-1 ± 1	$1.63^{+0.56}_{-0.45}$	3400^{+214}_{-258}	-3123^{+558}_{-227}	$0.099^{+0.148}_{-0.080}$

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

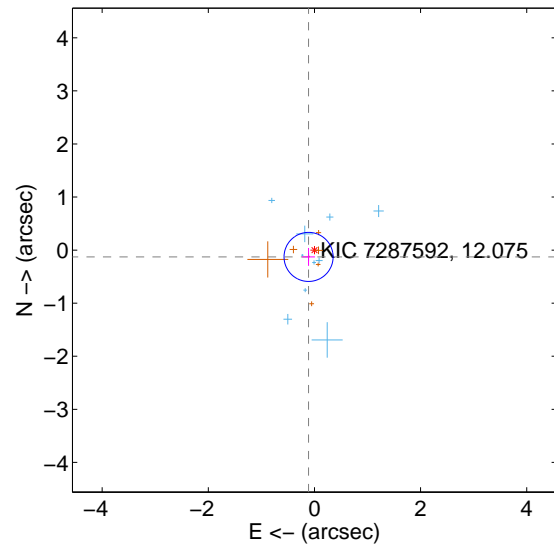
Supplemental centroid analysis for 007287592-01. Kepler magnitude: 12.07. Transit SNR 4.76

There are 10 quarters with good PRF difference image offsets

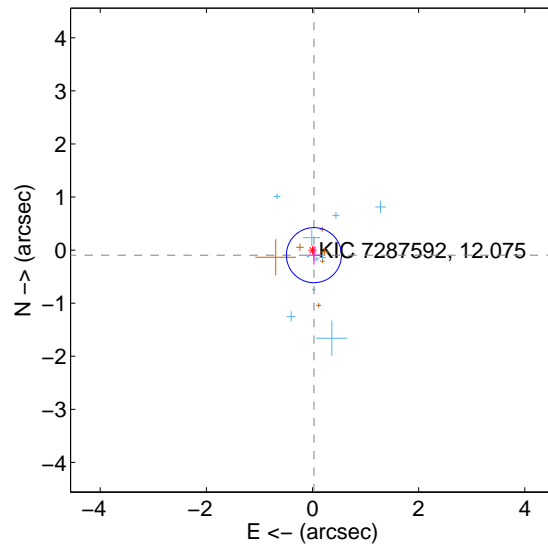
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.169 ± 0.154	1.10	0.111 ± 0.121	-0.128 ± 0.168
PRF-fit source offset from KIC position	0.099 ± 0.173	0.57	-0.026 ± 0.121	-0.095 ± 0.179
photometric centroid source offset	1.81 ± 0.66	2.74	1.62 ± 0.70	0.81 ± 0.49

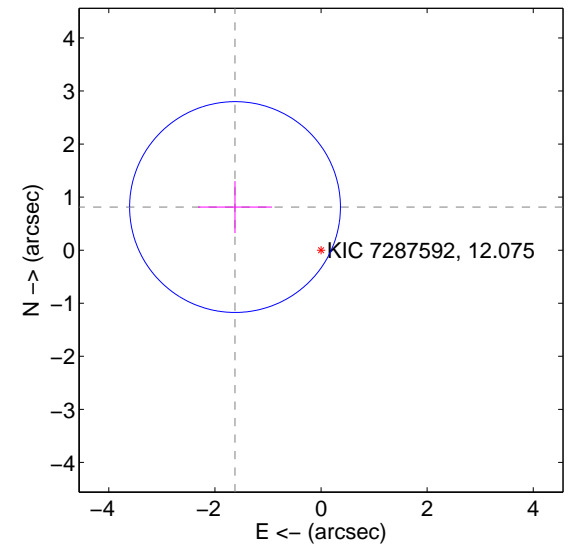
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

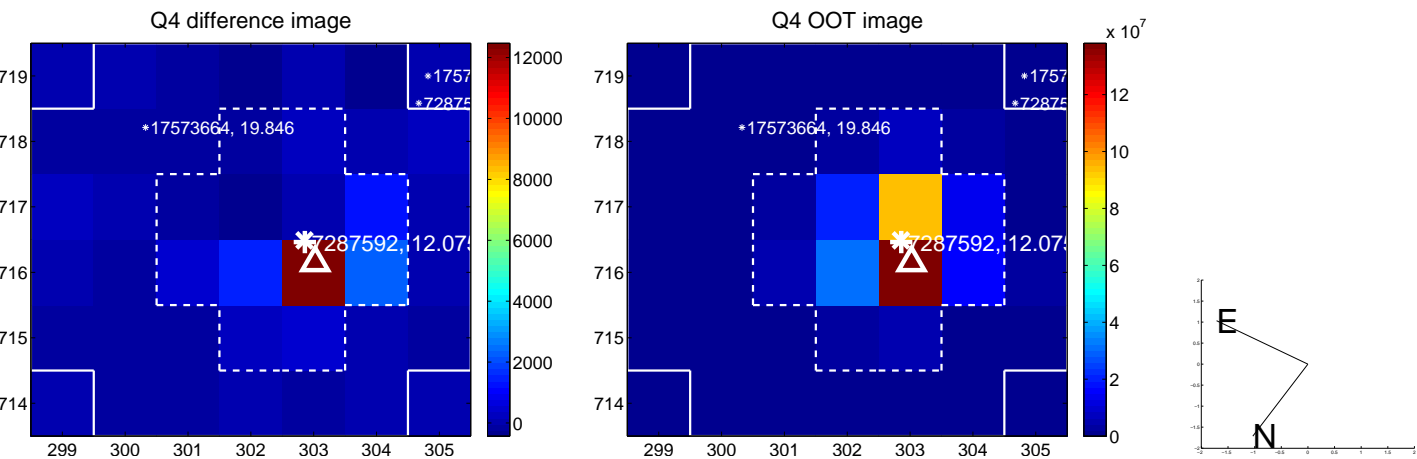
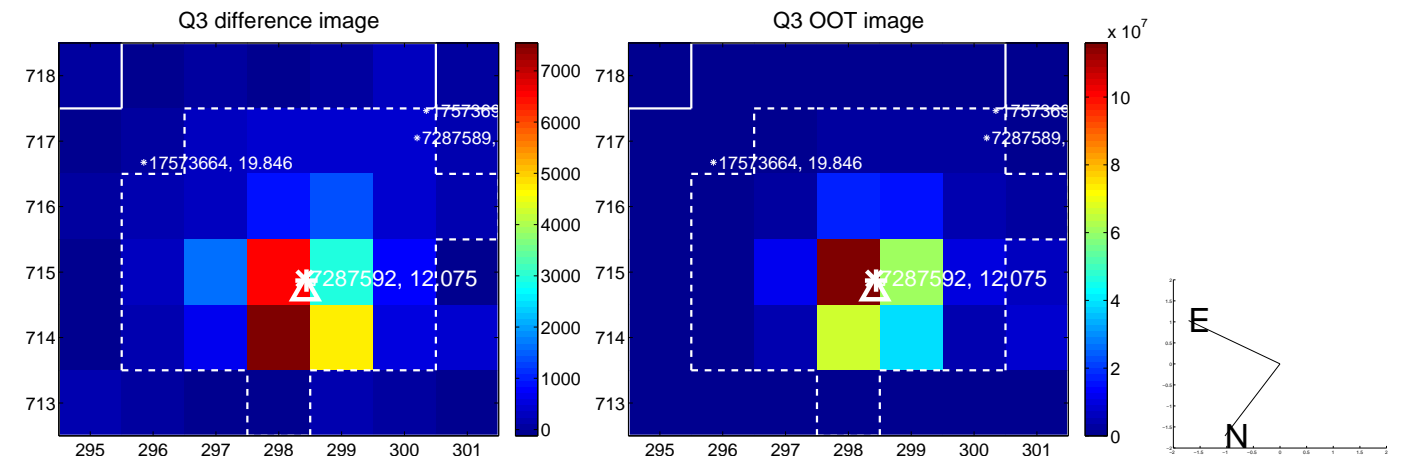
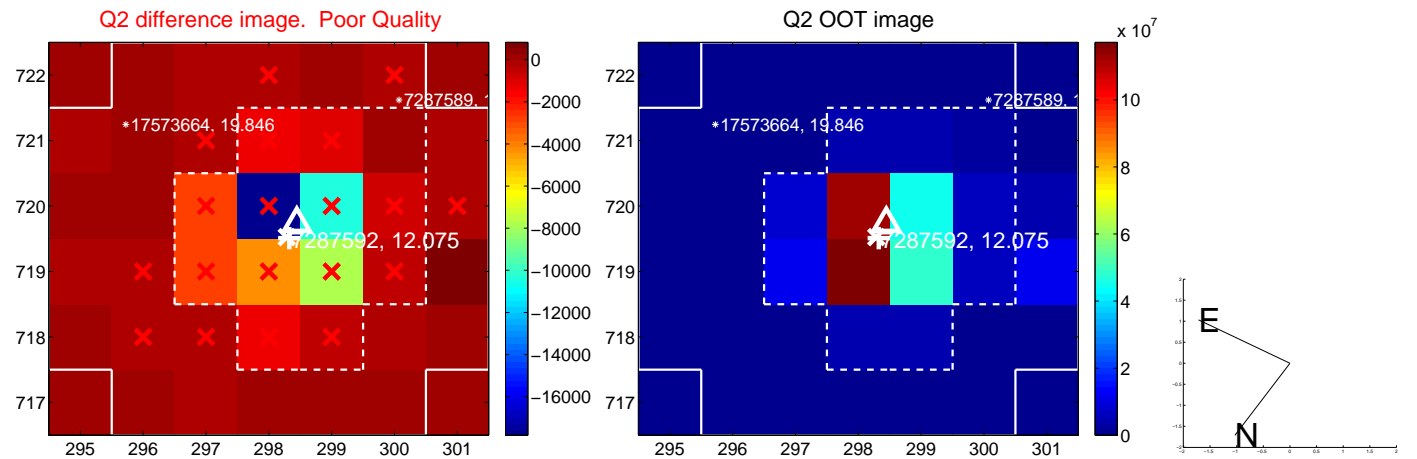
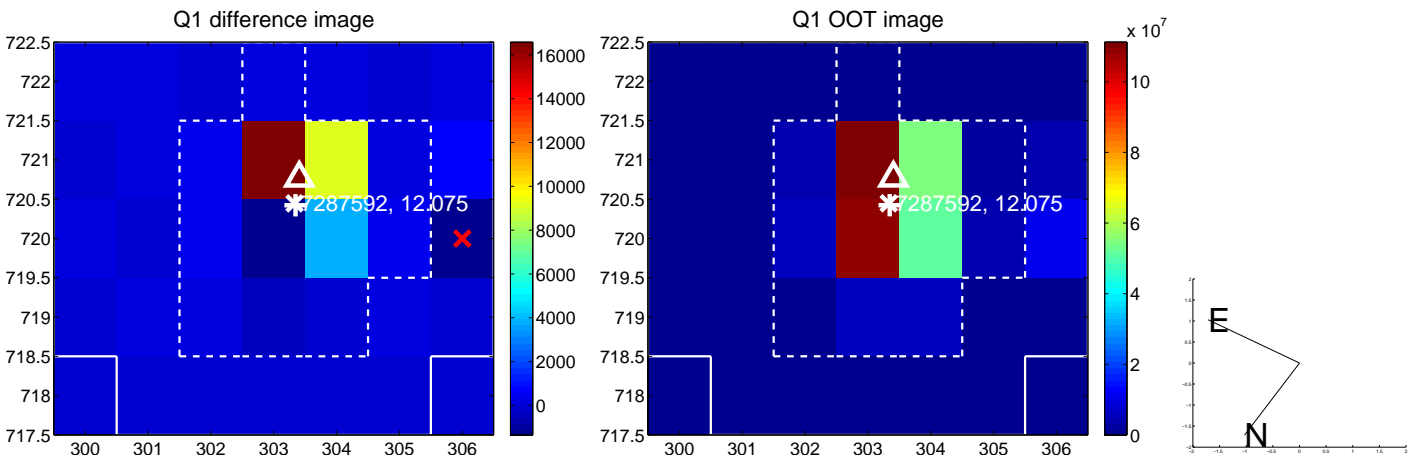


offset from photometric centroids

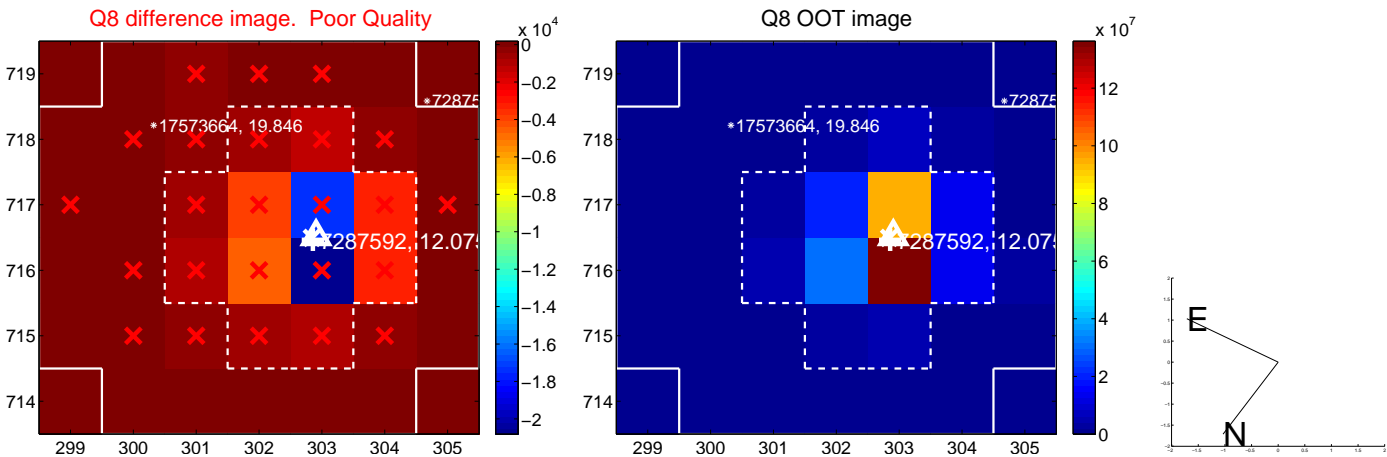
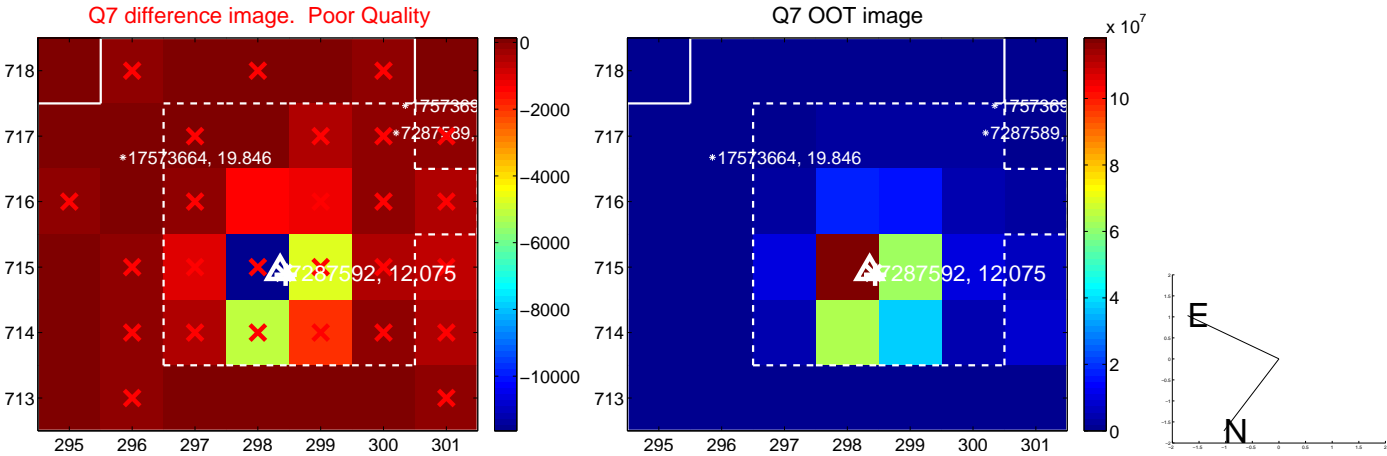
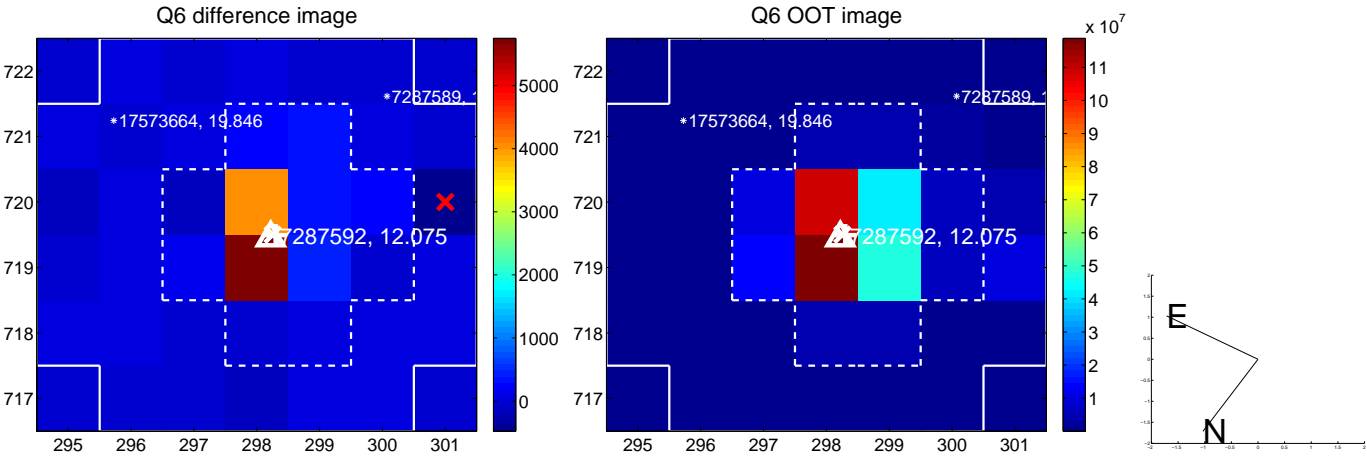
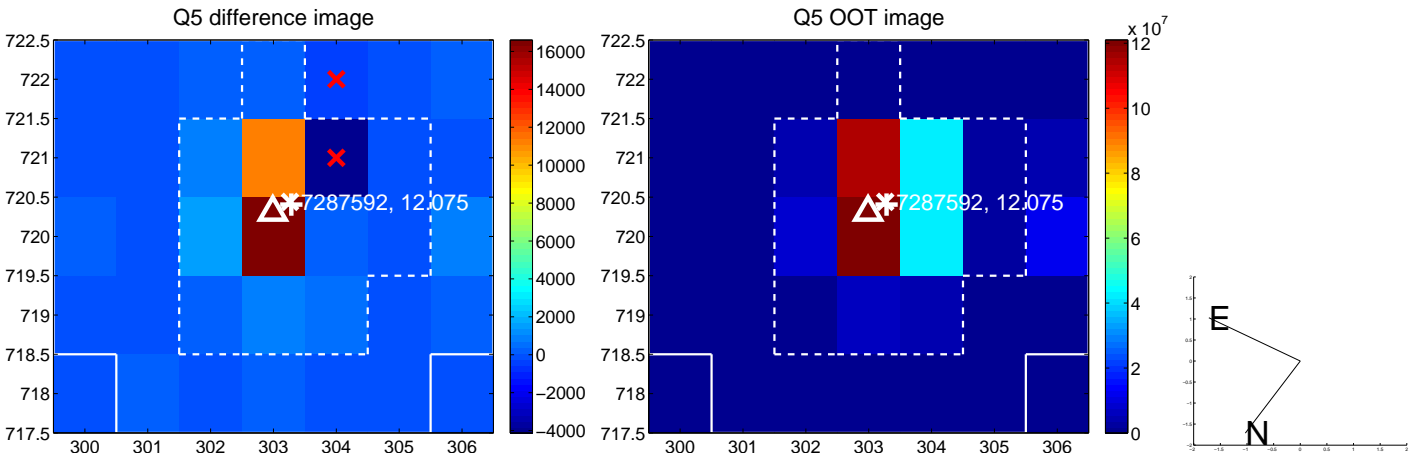


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

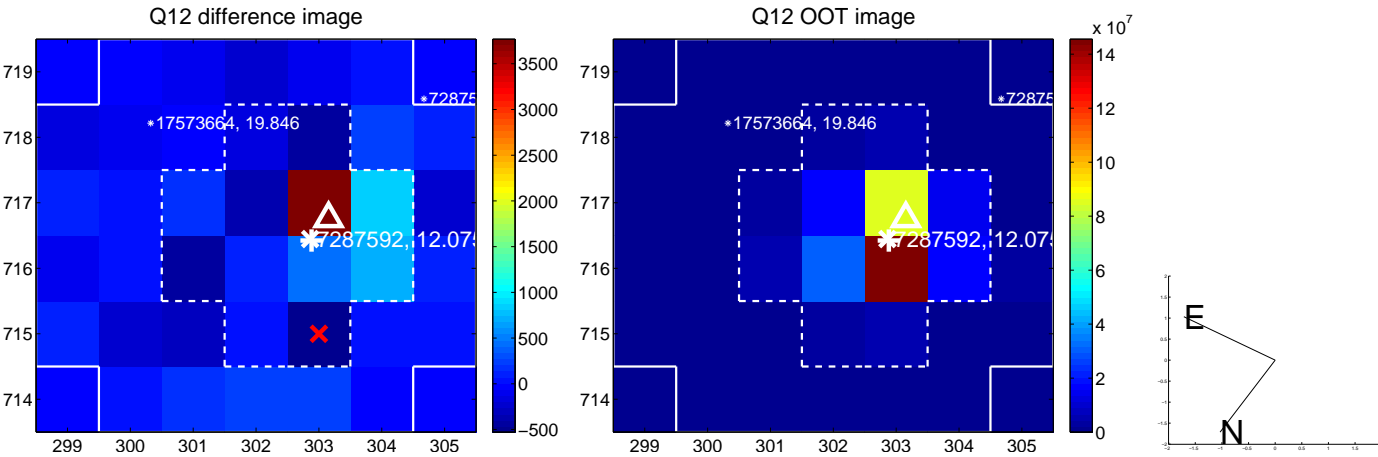
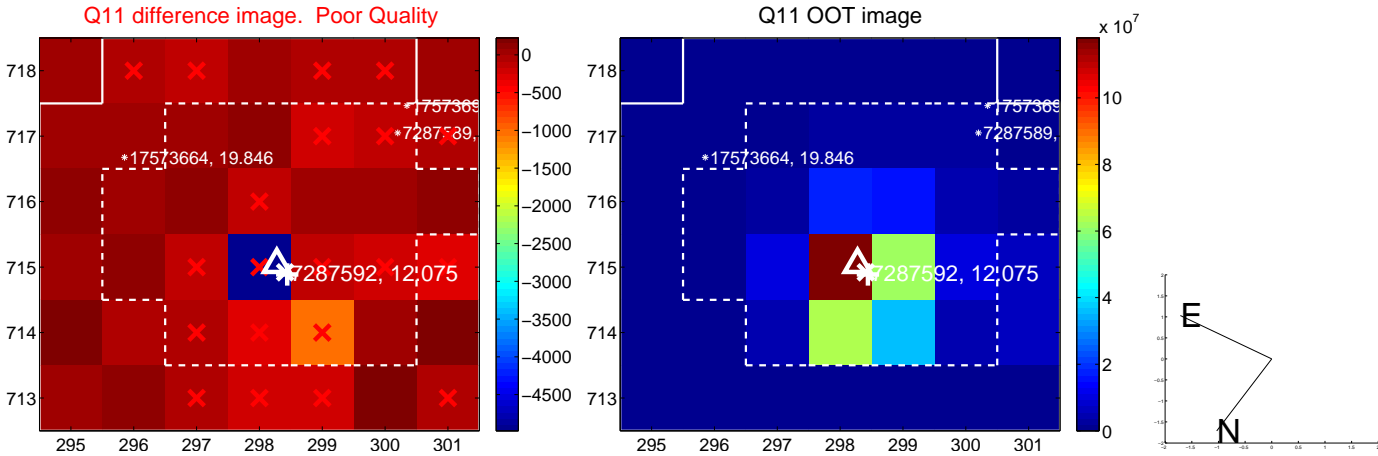
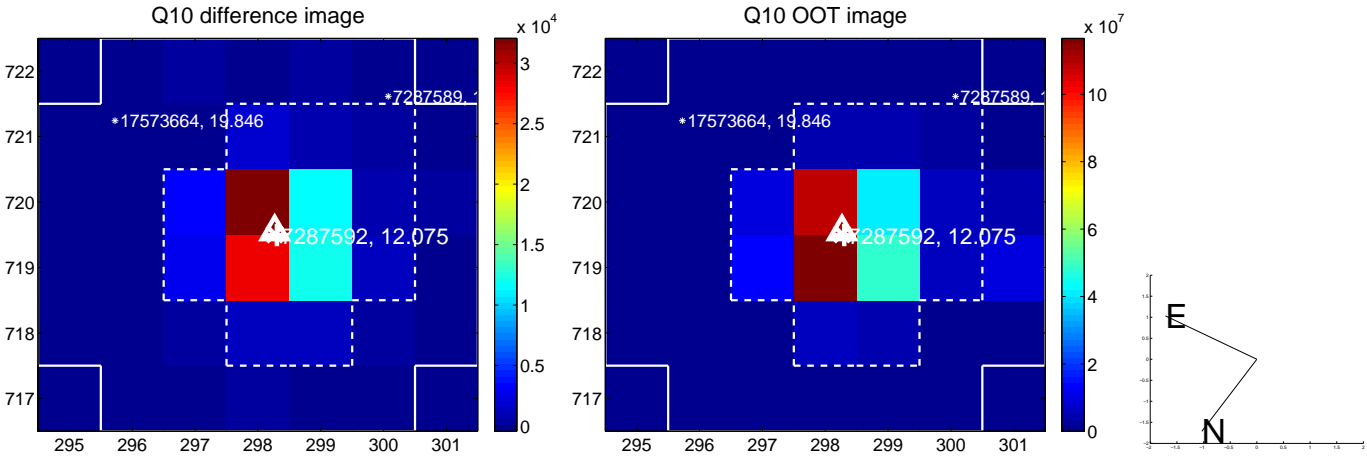
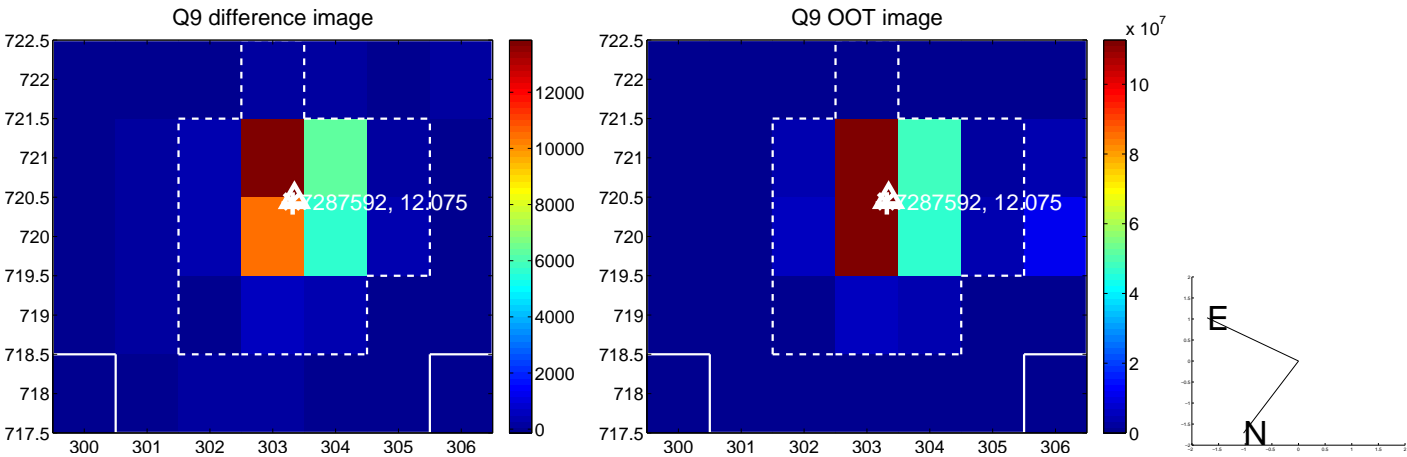
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



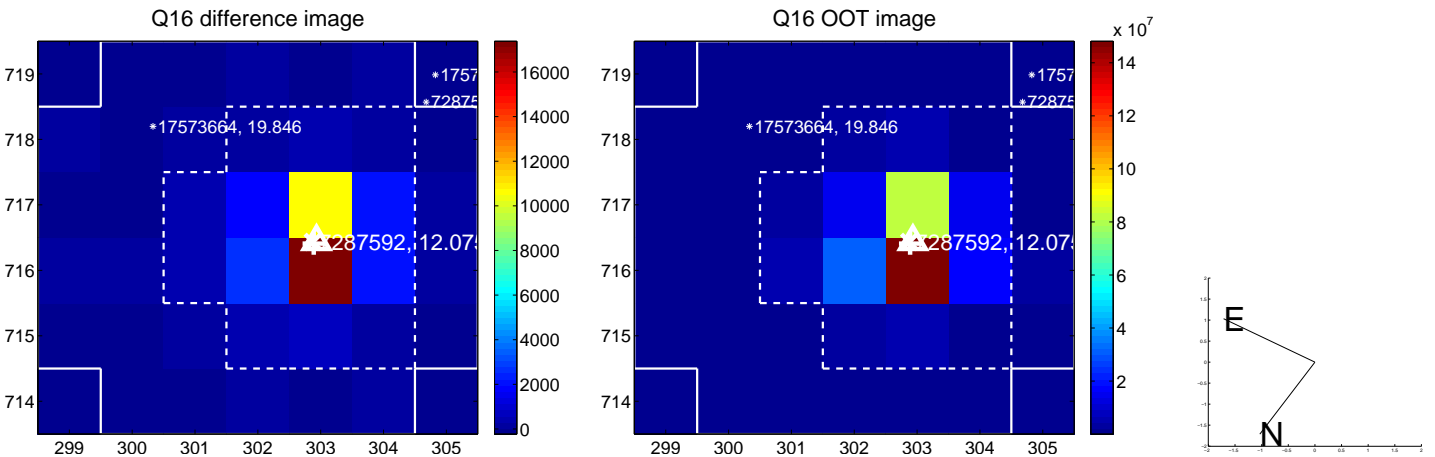
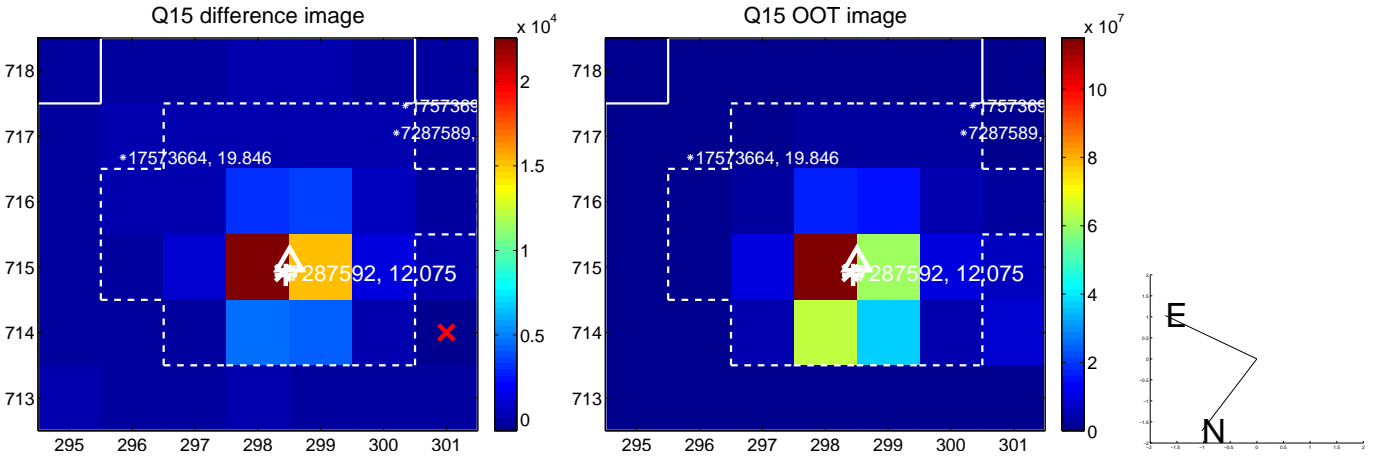
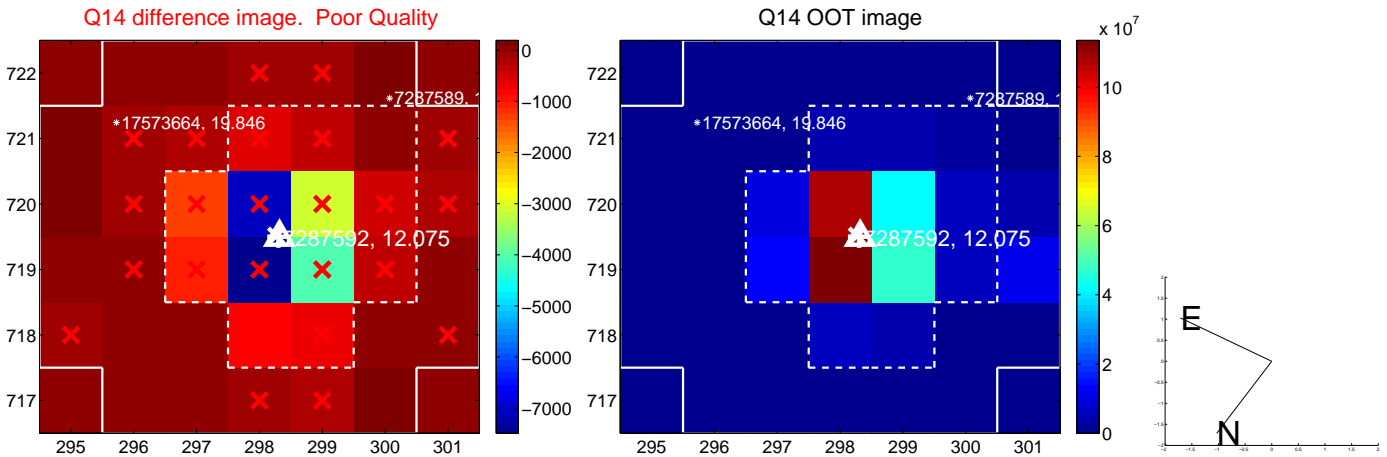
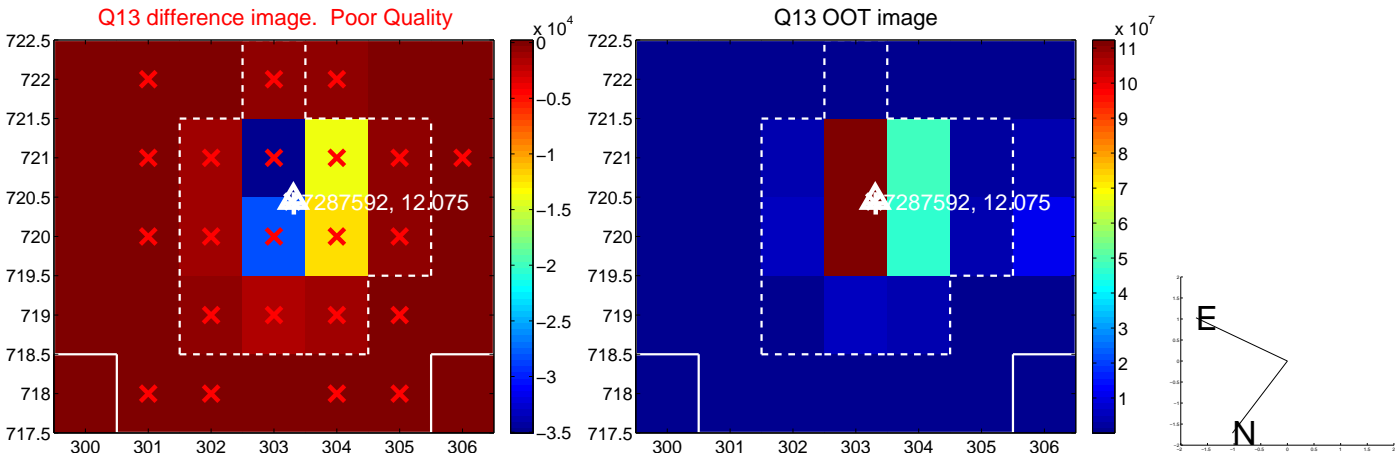
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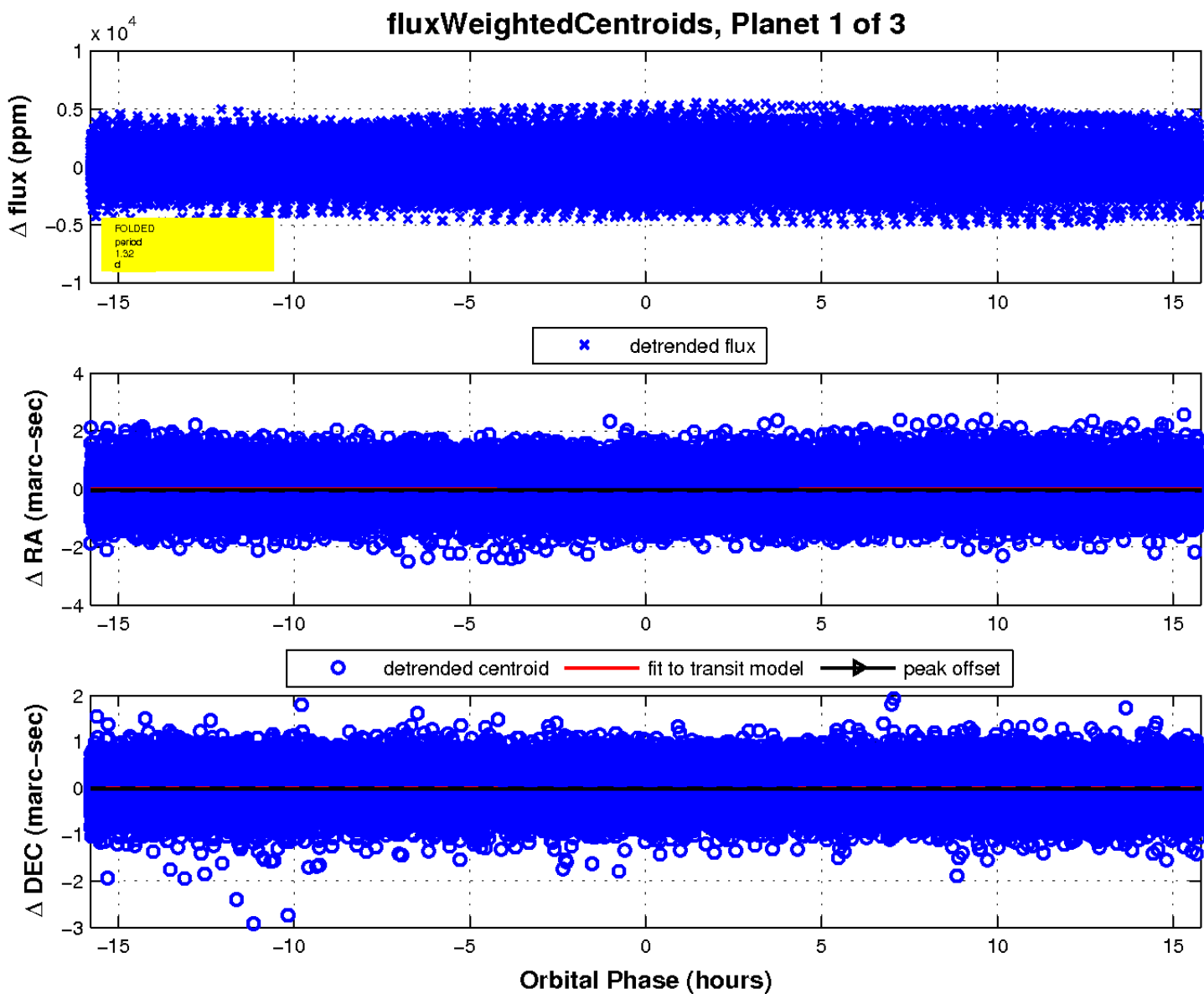
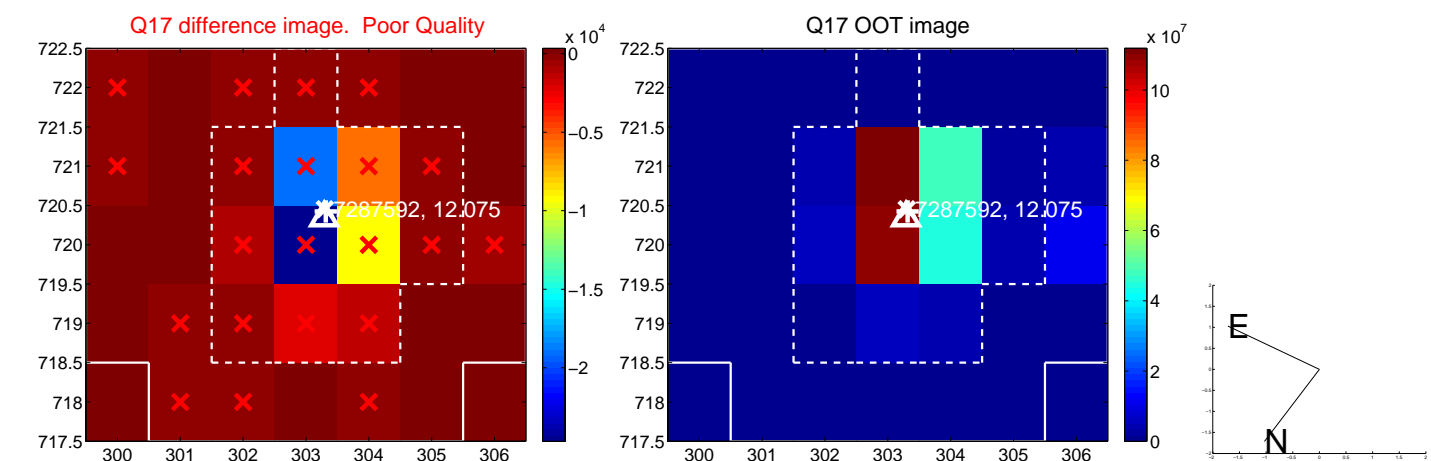
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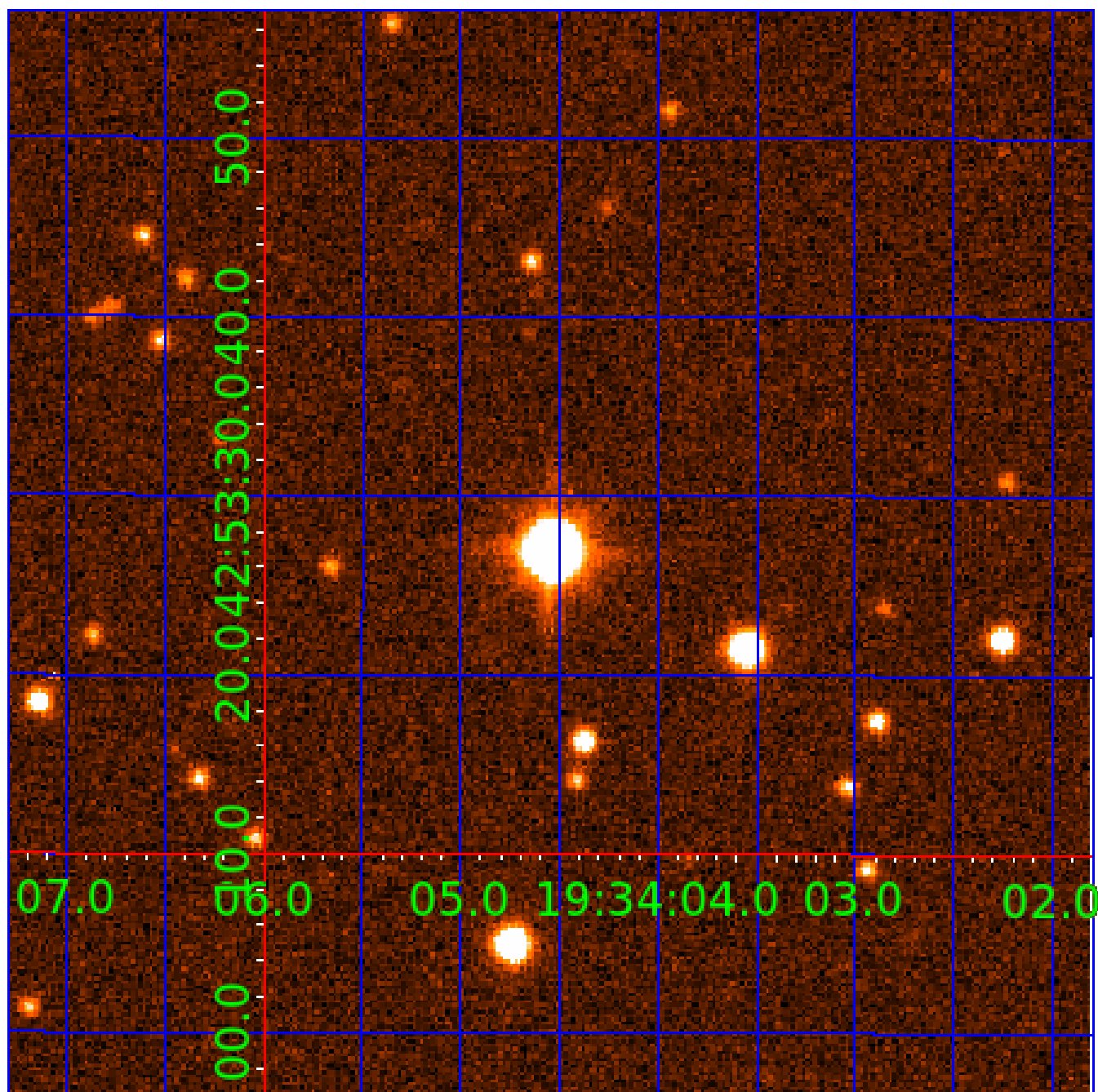


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UKIRT Image

Declination



KIC 007287592

Q1-17 DR25 TCE Parameters

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Robovetter Results

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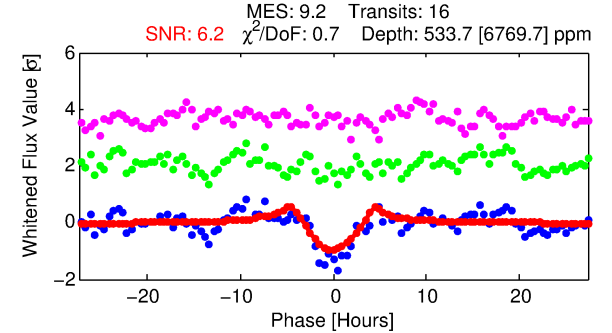
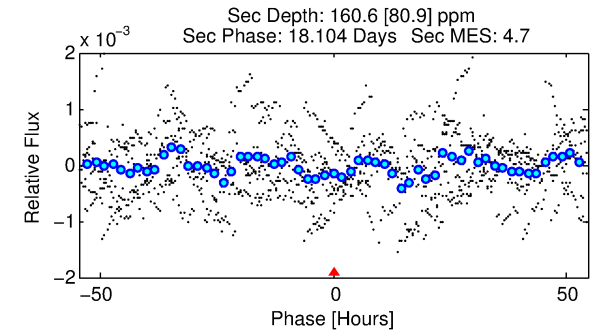
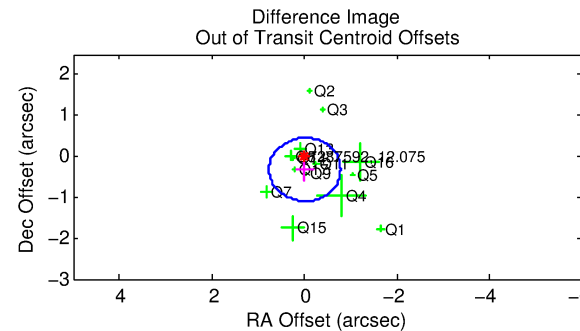
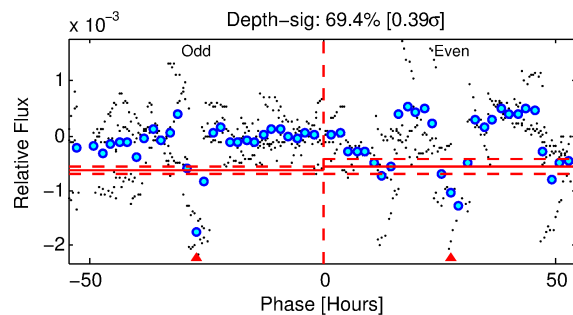
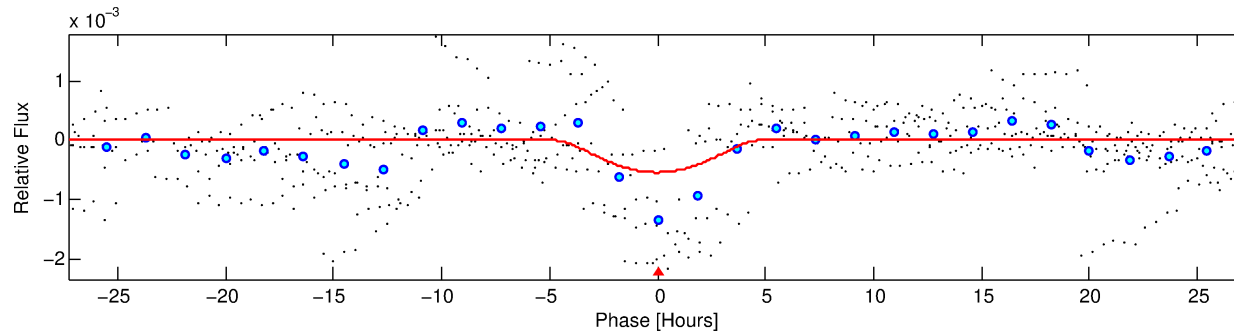
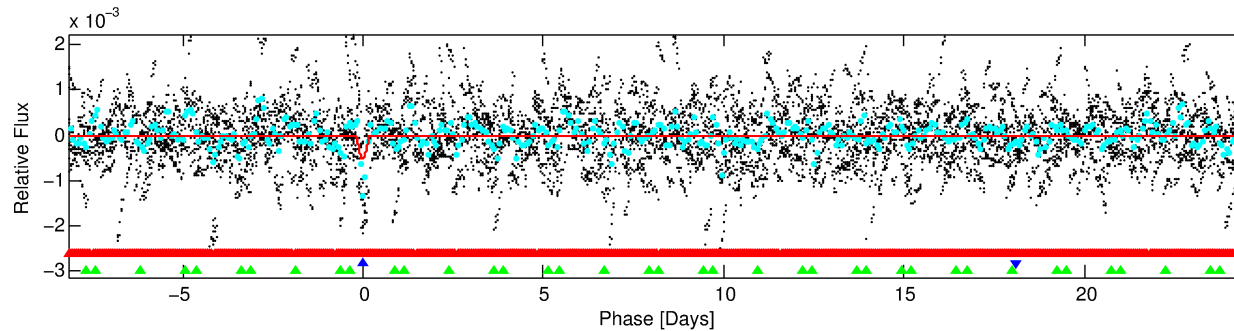
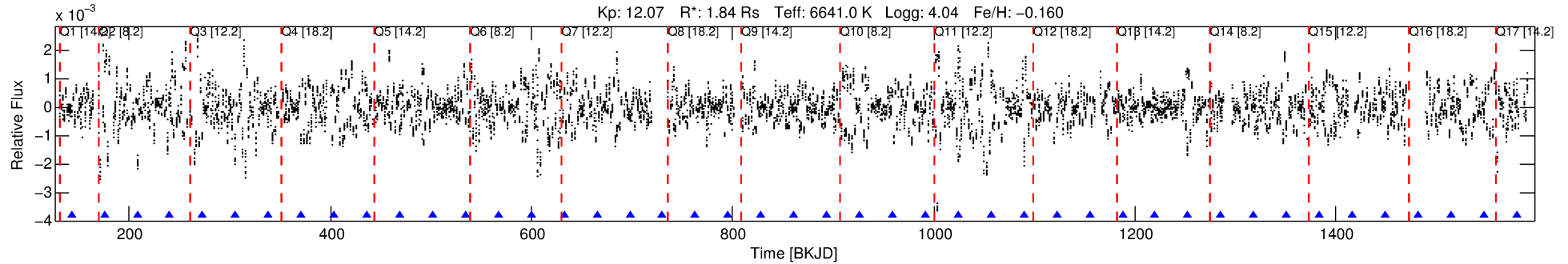
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007287592-02

No Significant Match Found

DV One-Page Summary

KIC: 7287592 Candidate: 2 of 3 Period: 32.656 d



DV Fit Results:

Period = 32.65606 [0.00079] d
Epoch = 142.6651 [0.0200] BKJD
Rp/R* = 0.0405 [0.0918]
a/R* = 7.96 [4.43]
b = 1.00 [0.22]
Seff = 119.75 [46.43]
Teq = 844 [82] K
Rp = 8.14 [18.55] Re
a = 0.2219 [0.0534] AU
Ag = 65.66 [300.17] [0.22 σ]
Teffp = 3712 [4231] K [0.68 σ]

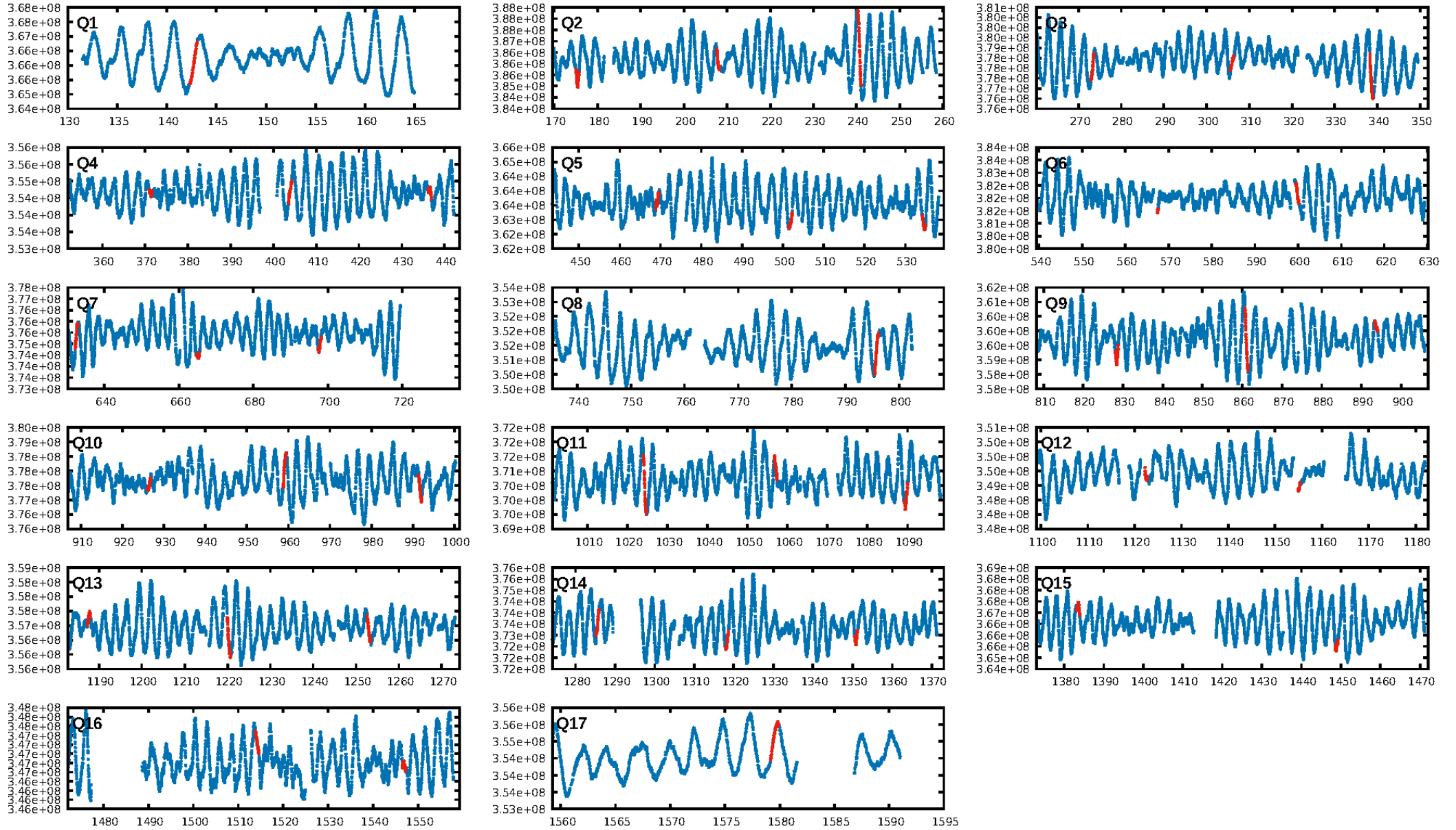
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [59.56 σ]
LongPeriod-sig: 100.0% [10.36 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.79e-16
RollingBand-fgt: 1.00 [15/15]
GhostDiagnostic-chr: -6.55
Centroid-sig: 22.7%
Centroid-so: 0.487 arcsec [2.97 σ]
OotOffset-rm: 0.321 arcsec [1.24 σ]
OotOffset-st: 2/4/3/5 [14]
KicOffset-rm: 0.308 arcsec [1.18 σ]
KicOffset-st: 2/4/3/5 [14]
DiffImageQuality-fgm: 0.71 [10/14]
DiffImageOverlap-fno: 0.00 [0/15]

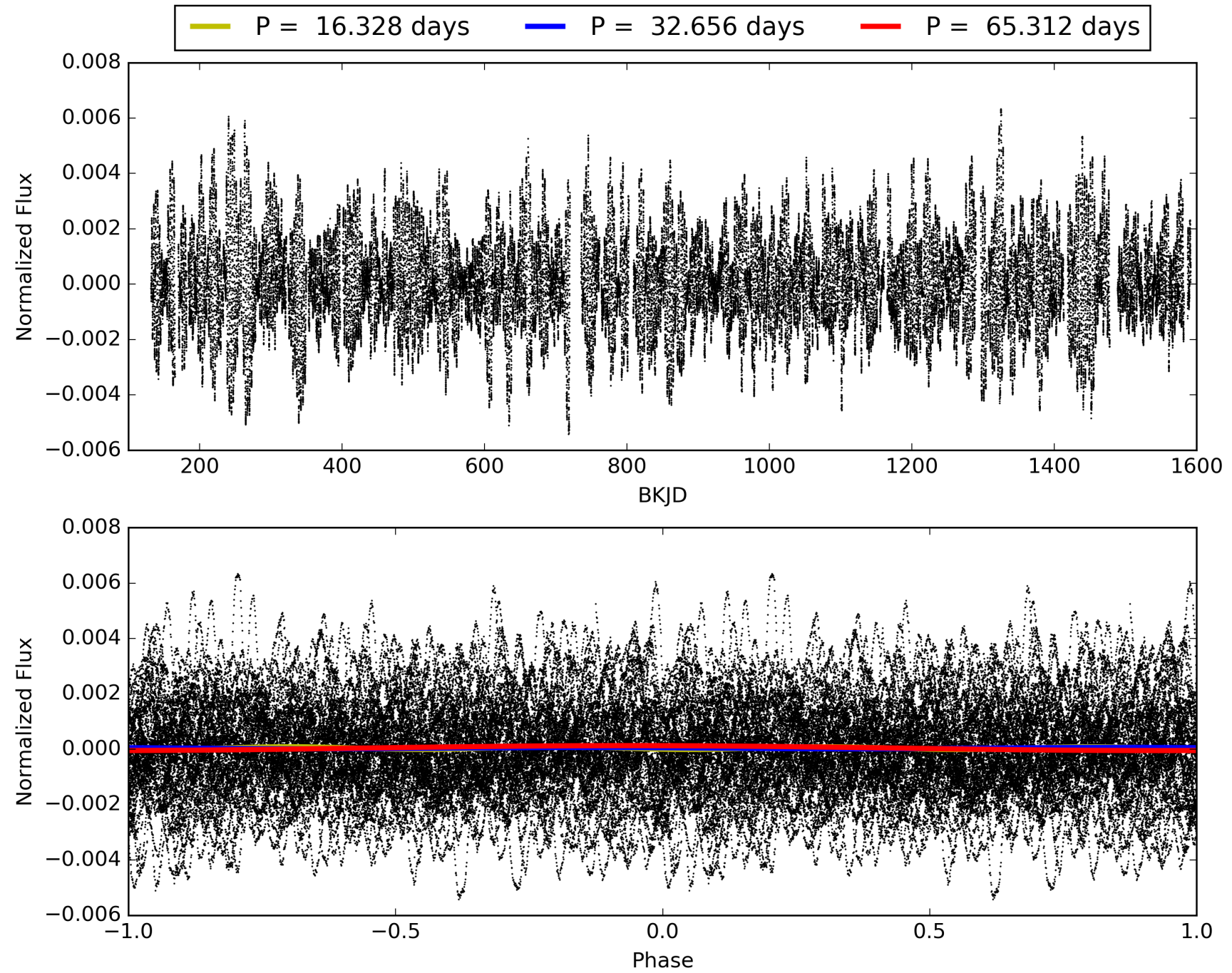
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:49:45 Z

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

TCE 007287592-02, PDC Light Curves

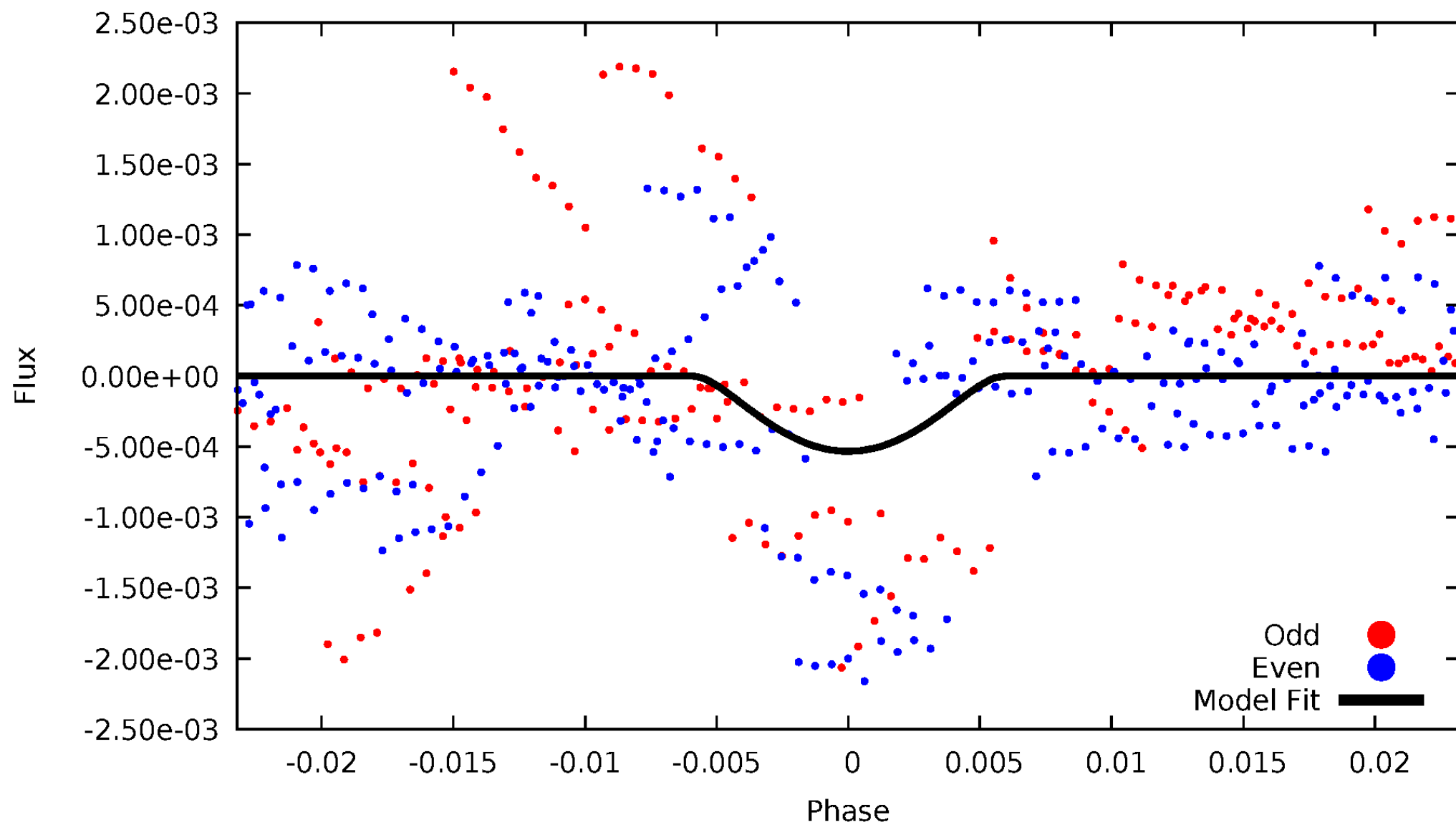


TCE 007287592-02



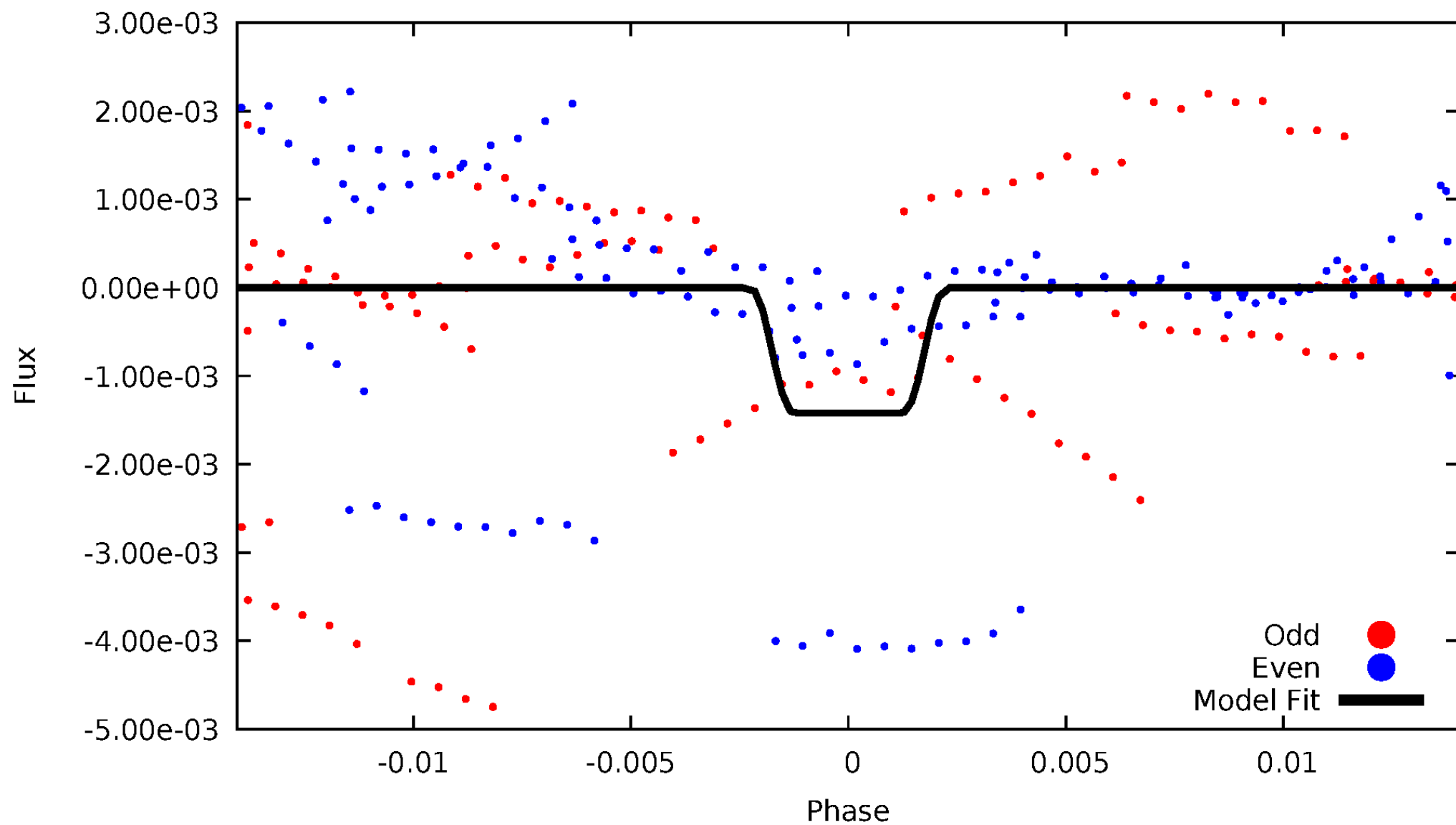
DV Odd/Even

TCE 007287592-02



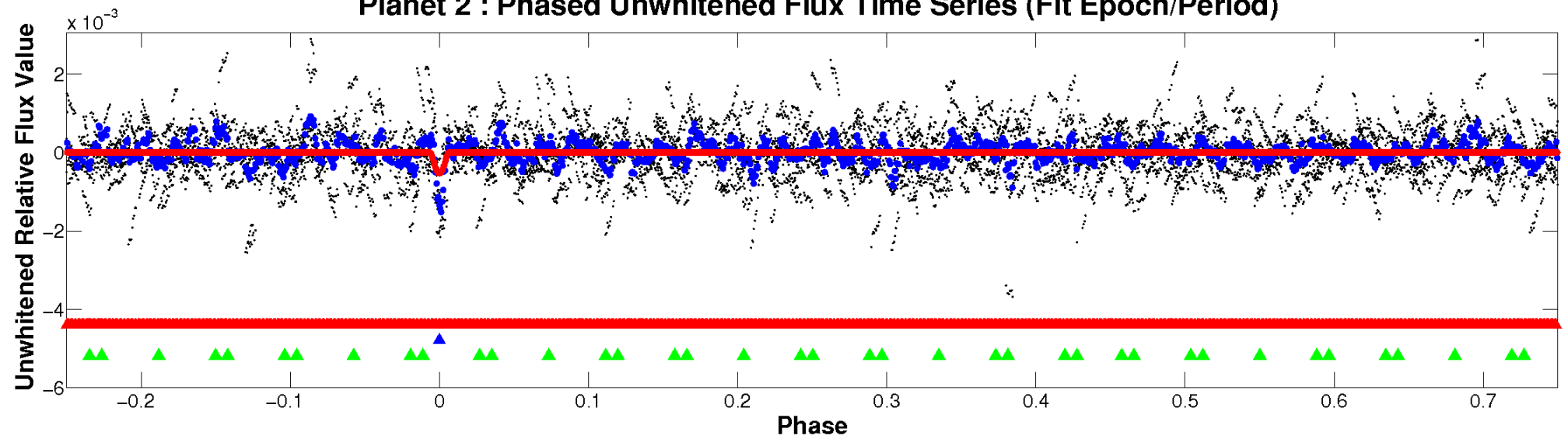
ALT Odd/Even

TCE 007287592-02

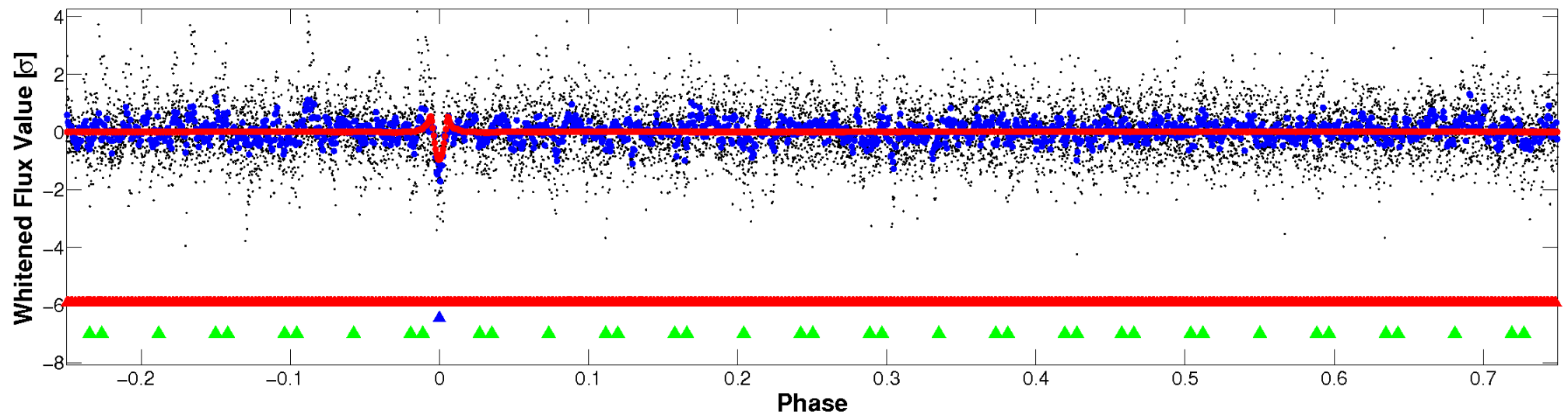


Non-Whitened Vs. Whitened Light Curve

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

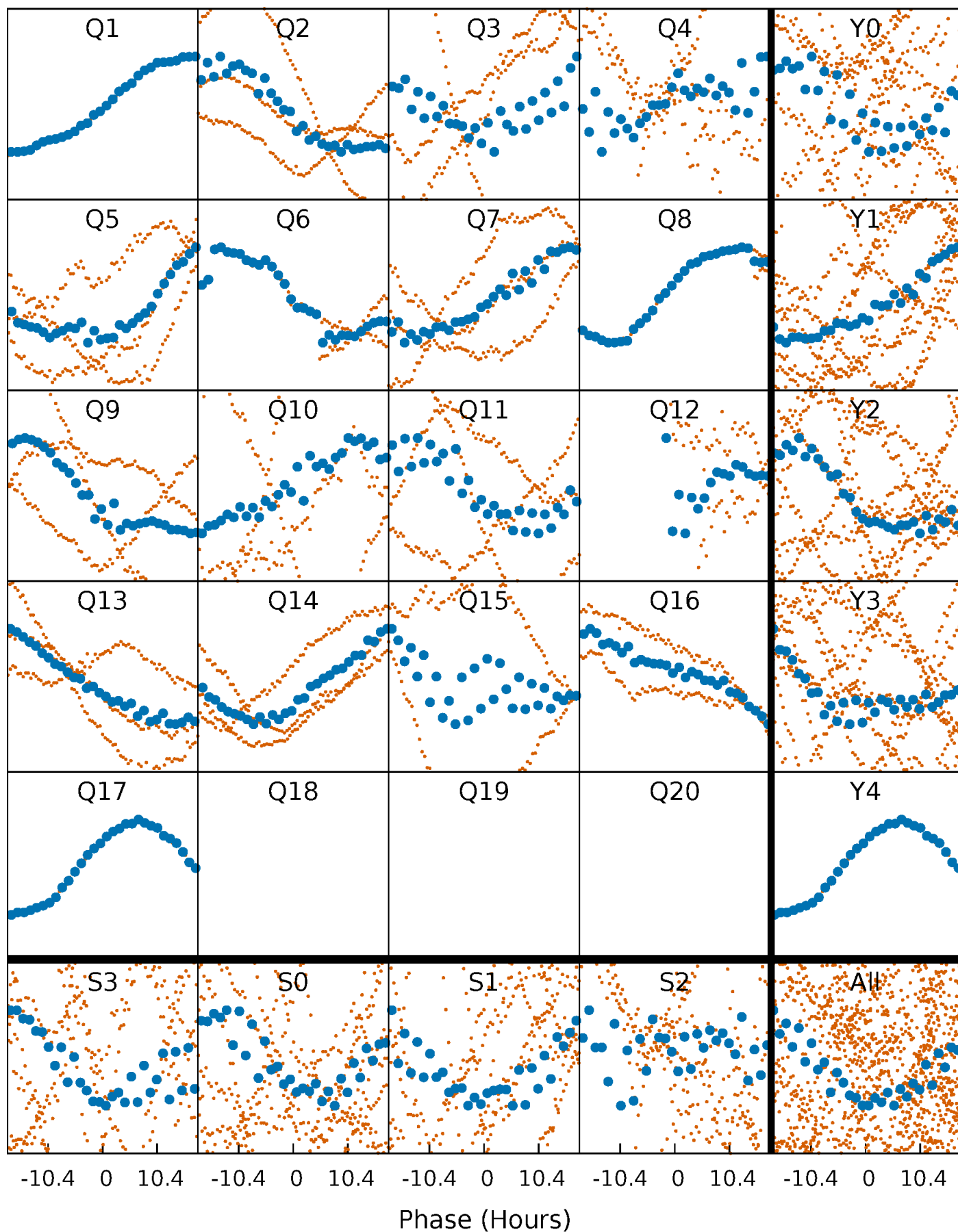


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



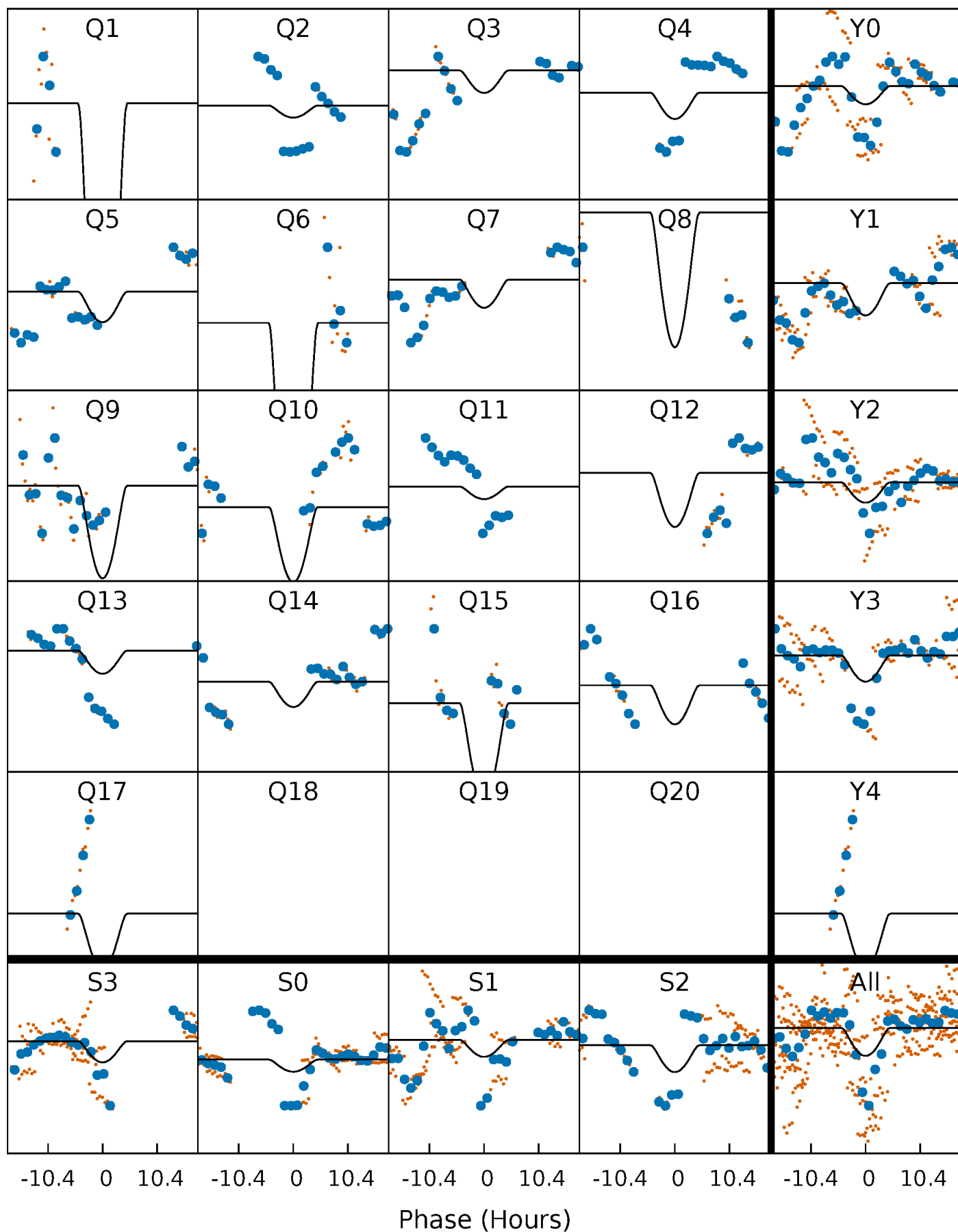
PDC Quarter-Phased Transit Curves

TCE 007287592-02 P= 32.656059 Days $T_0=142.665051$ (BKJD)



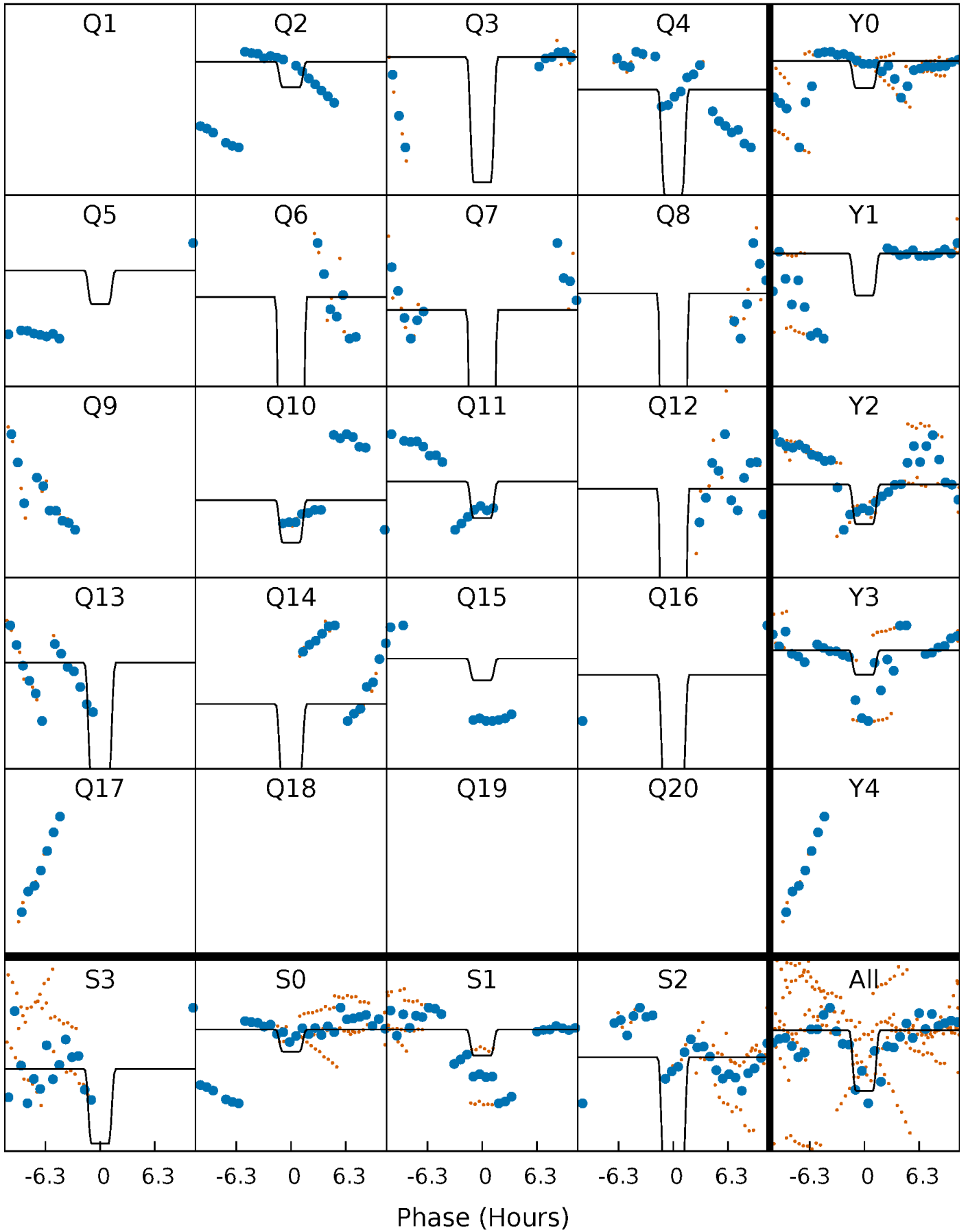
DV Quarter-Phased Transit Curves

TCE 007287592-02 $P = 32.656059$ Days $T_0 = 142.665051$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

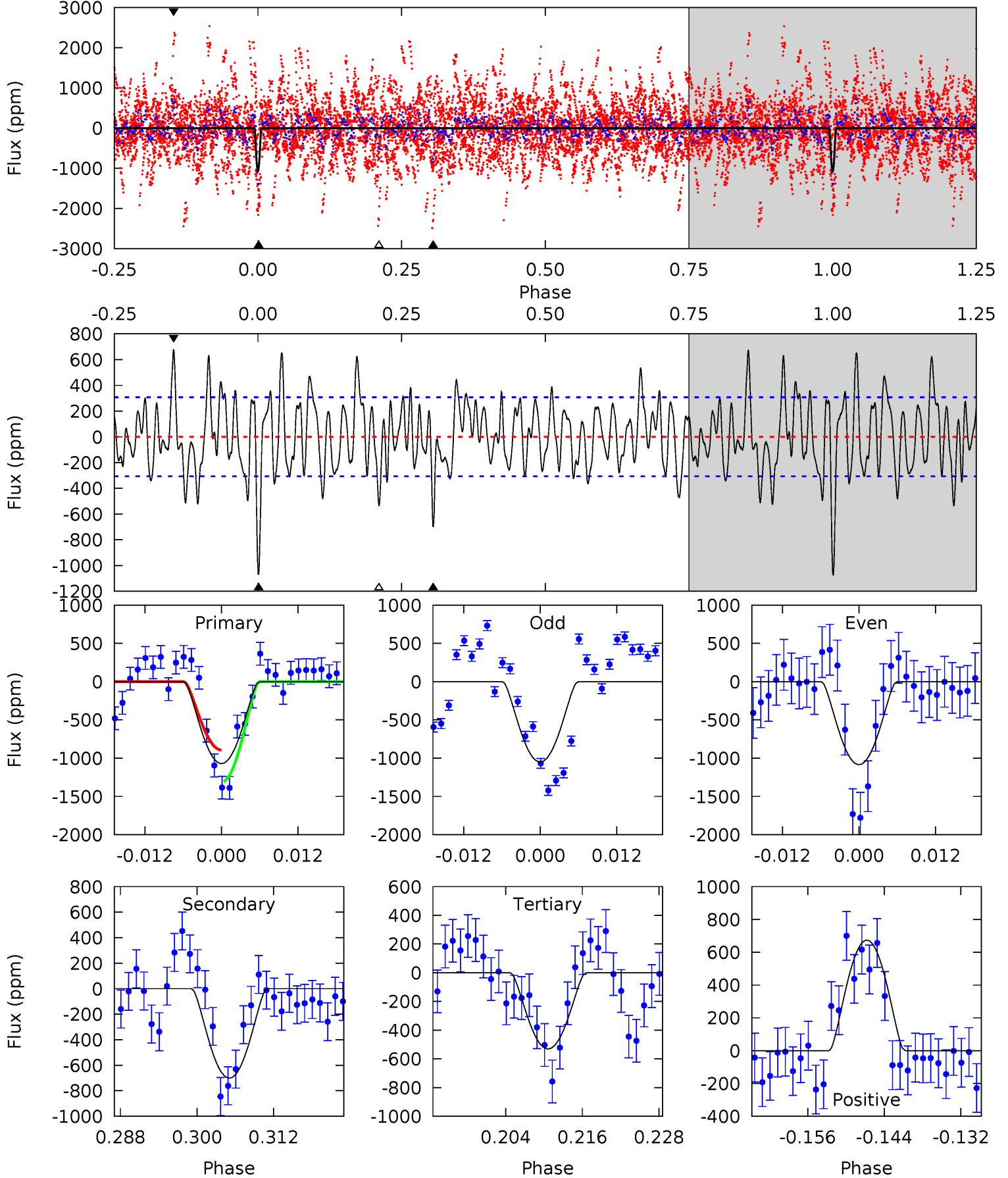
TCE 007287592-02 P= 32.655227 Days $T_0=142.812484$ (BKJD)



DV Model-Shift Uniqueness Test

007287592-02, P = 32.656059 Days, E = 110.008992 Days

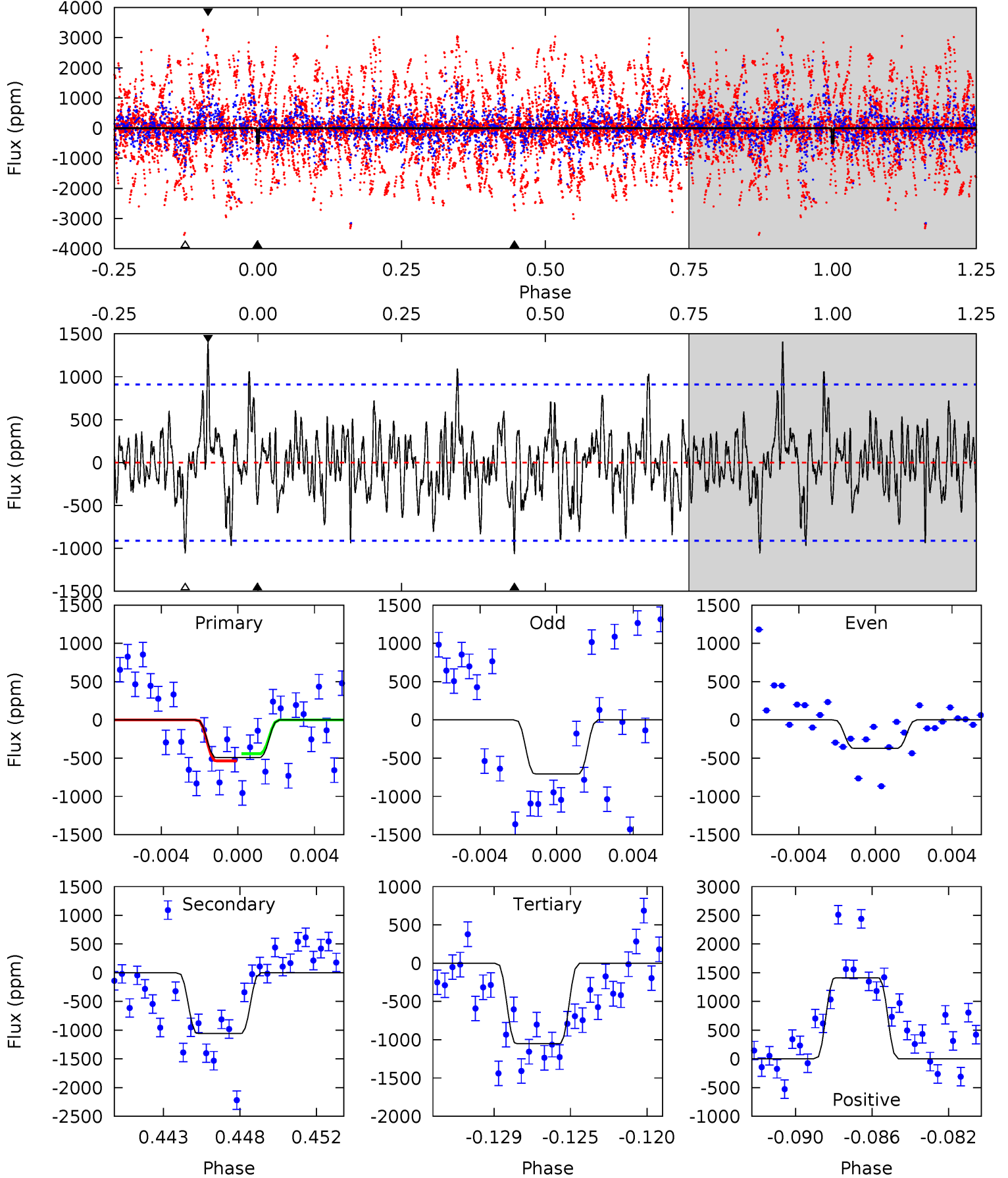
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.4	11.4	8.63	11.0	4.99	2.51	3.67	8.79	6.46	2.78	0.45	0.28	0.15	0.39	3.27



Alt Model-Shift Uniqueness Test

007287592-02, $P = 32.655227$ Days, $E = 110.157257$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.80	6.03	5.98	8.03	5.19	2.86	1.91	-3.18	-5.23	0.05	-2.01	0.85	1.44	0.57	0.27



Stellar Parameters For KIC 007287592

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6641^{+150}_{-200}	$4.044^{+0.210}_{-0.140}$	$-0.160^{+0.250}_{-0.250}$	$1.839^{+0.404}_{-0.493}$	$1.371^{+0.165}_{-0.248}$	$0.311^{+0.377}_{-0.129}$
	+2%/-3%	+5%/-3%	+156%/-156%	+22%/-27%	+12%/-18%	+121%/-41%
Source	PHO1	FLK73	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 007287592-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-701±61	$15.84^{+14.25}_{-10.52}$	1170^{+76}_{-86}	4072^{+2441}_{-768}	77^{+585}_{-56}
Alt.	-1058±176	$14.36^{+15.51}_{-9.58}$	1168^{+75}_{-82}	4545^{+3218}_{-1019}	135^{+1040}_{-105}

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 $A_{obs} \gg 1.0$

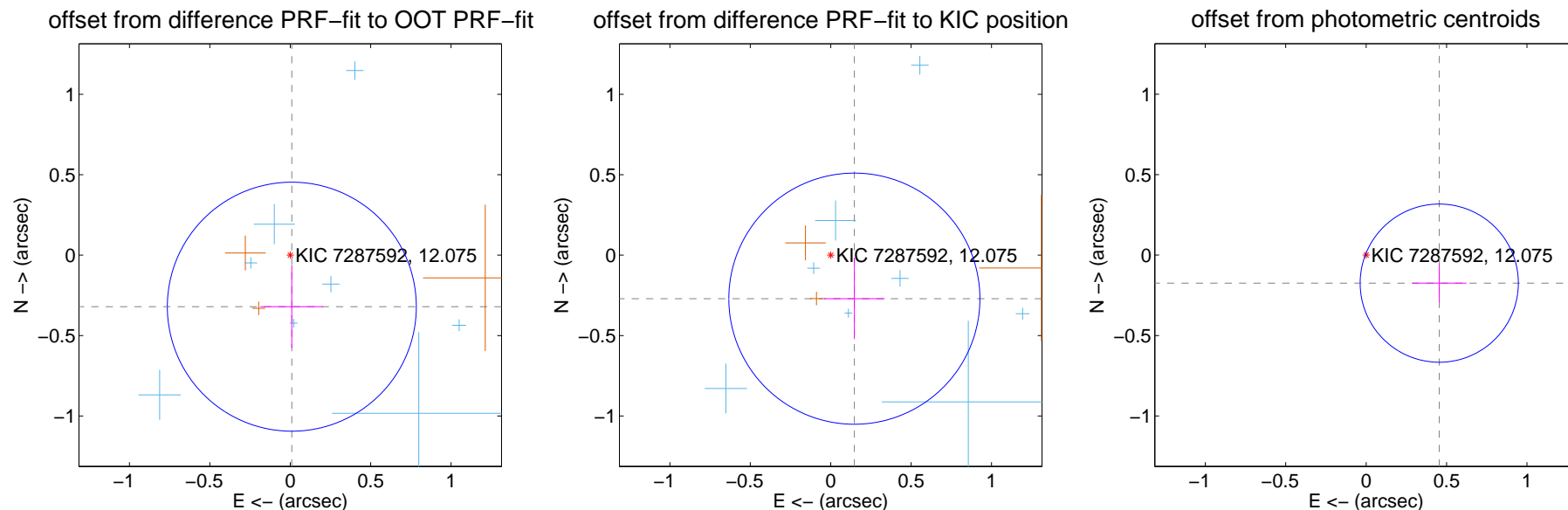
DV Centroid Data

Supplemental centroid analysis for 007287592-02. Kepler magnitude: 12.07. Transit SNR 6.17

There are 10 quarters with good PRF difference image offsets

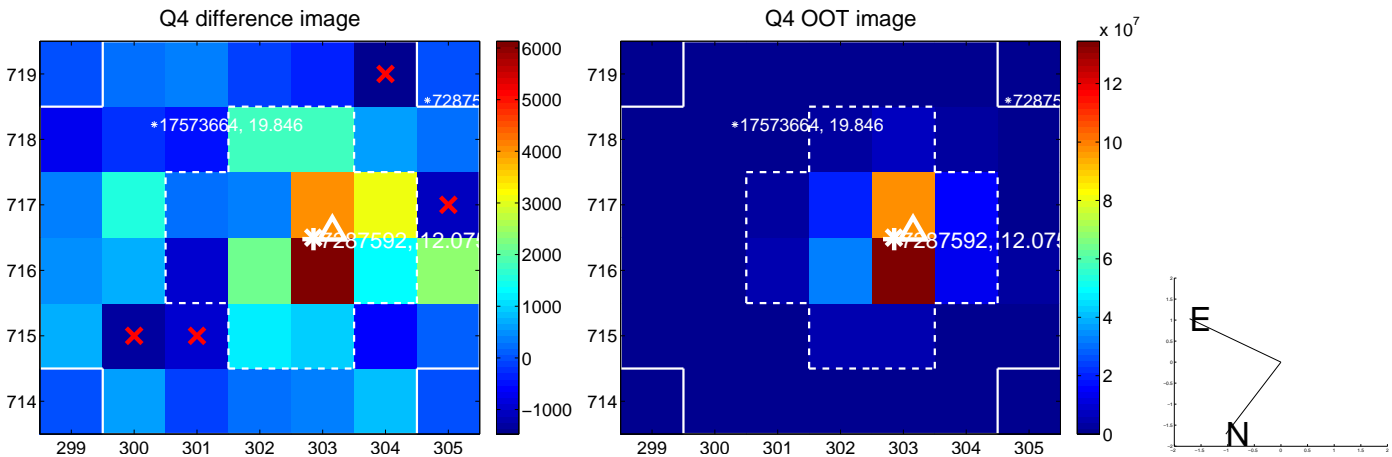
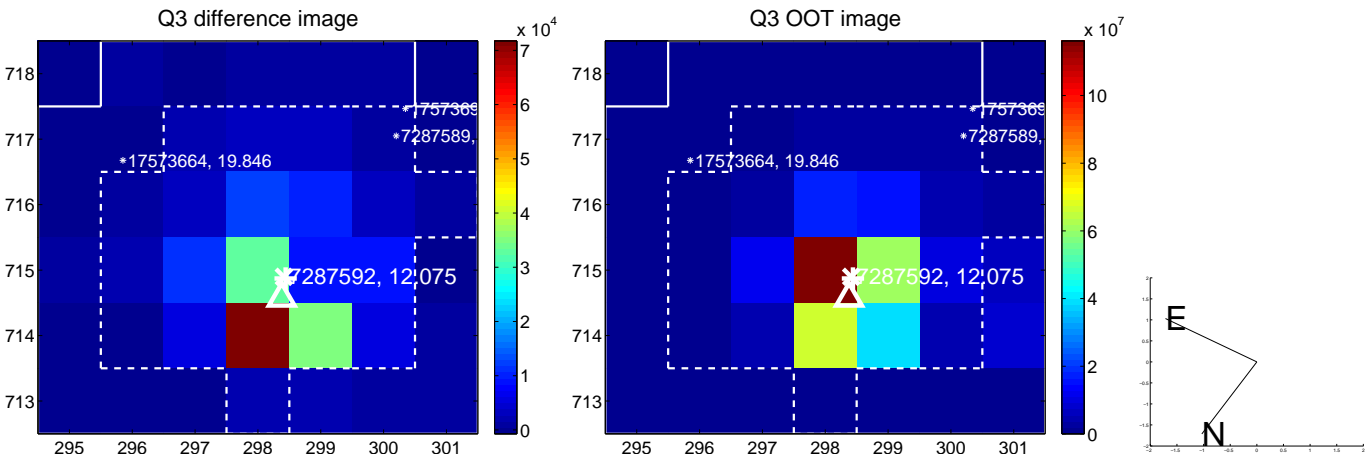
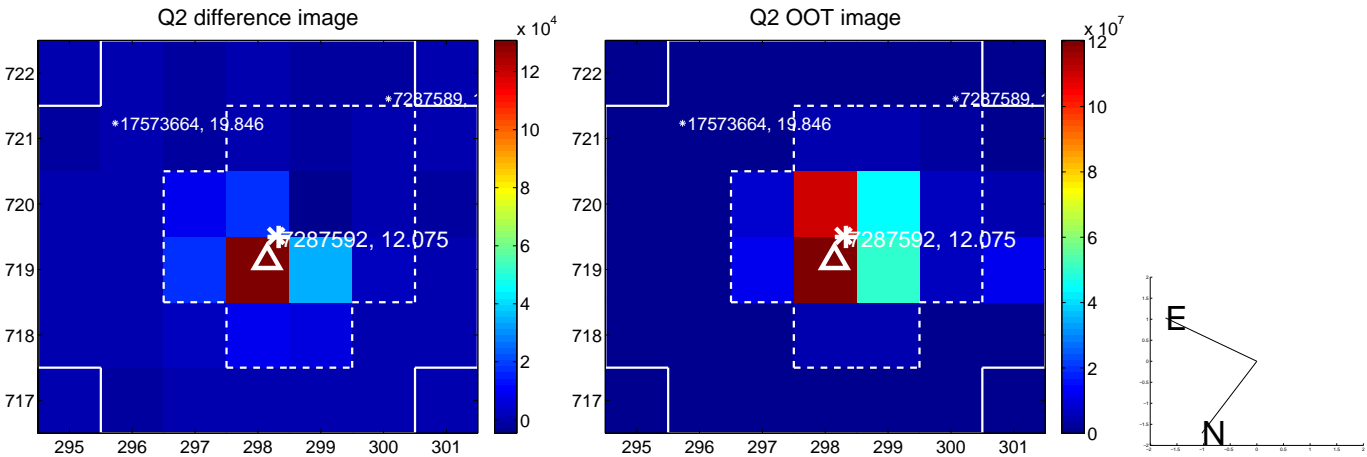
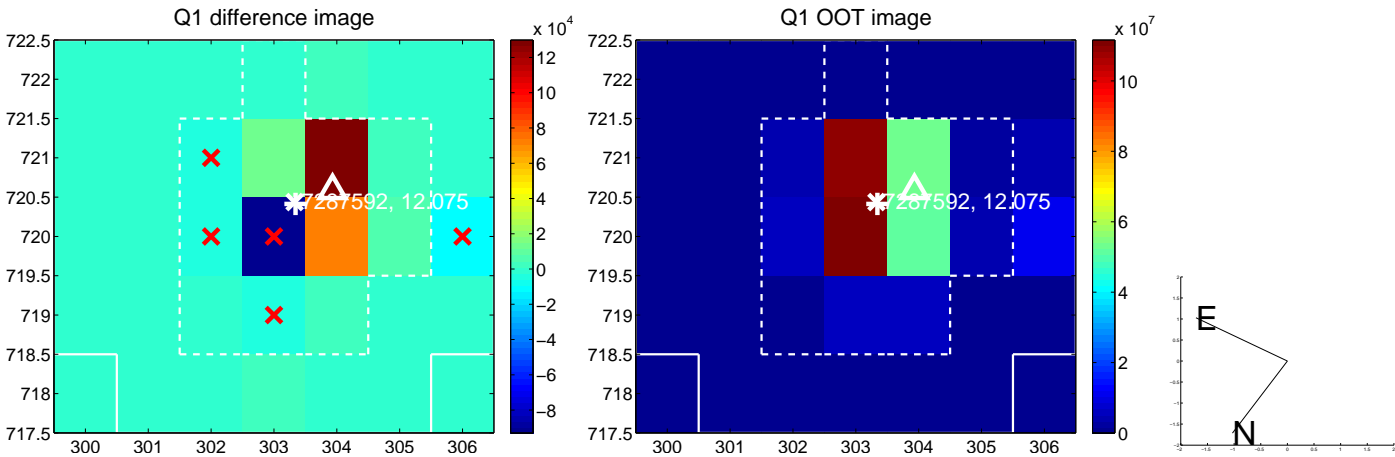
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.321 ± 0.258	1.24	-0.010 ± 0.195	-0.320 ± 0.257
PRF-fit source offset from KIC position	0.308 ± 0.260	1.18	-0.147 ± 0.188	-0.271 ± 0.252
photometric centroid source offset	0.49 ± 0.16	2.97	-0.45 ± 0.17	-0.17 ± 0.12

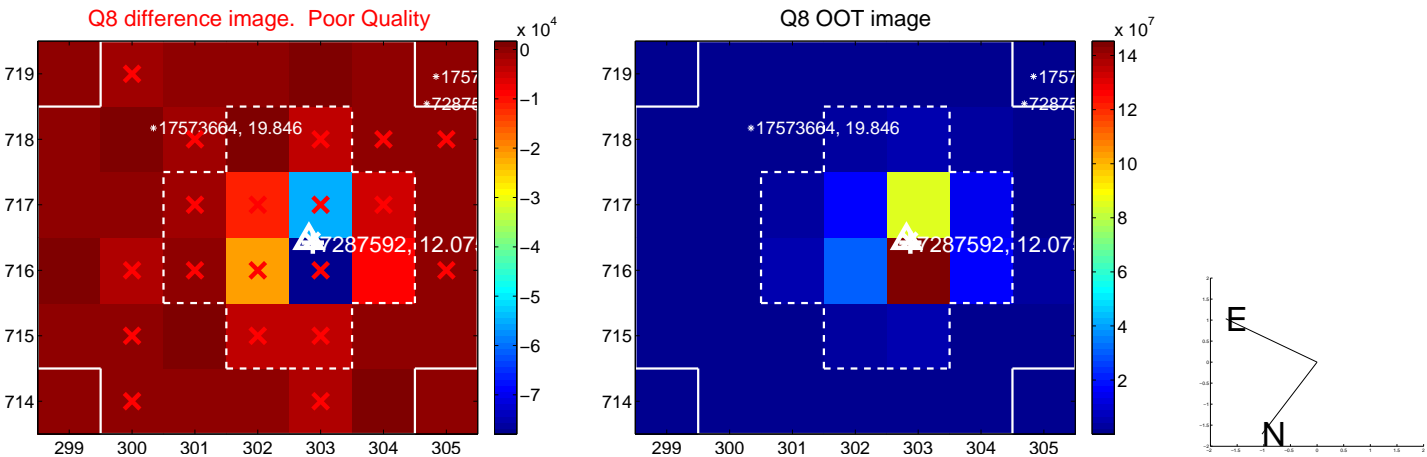
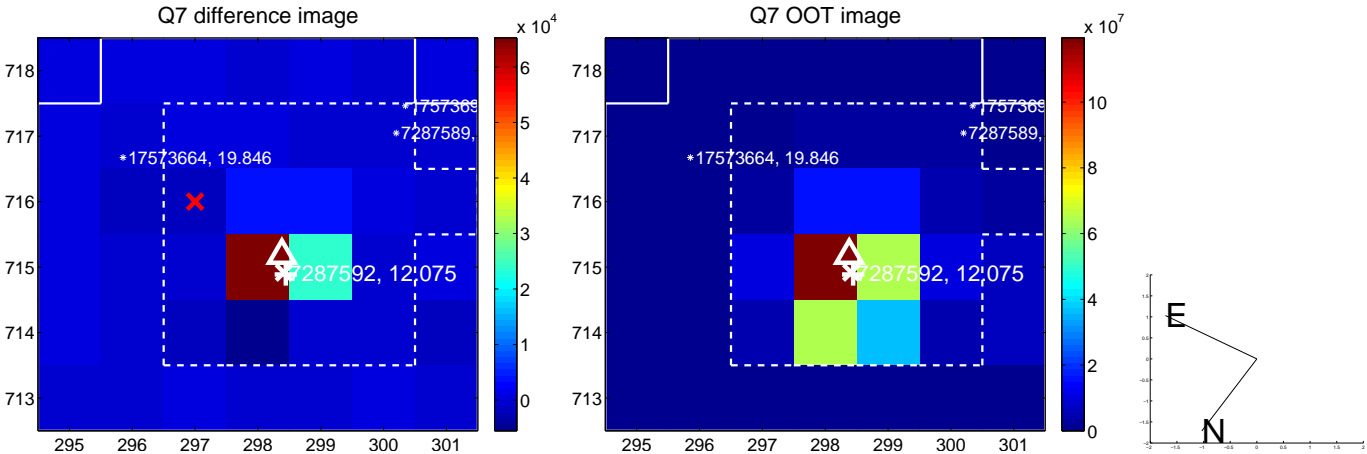
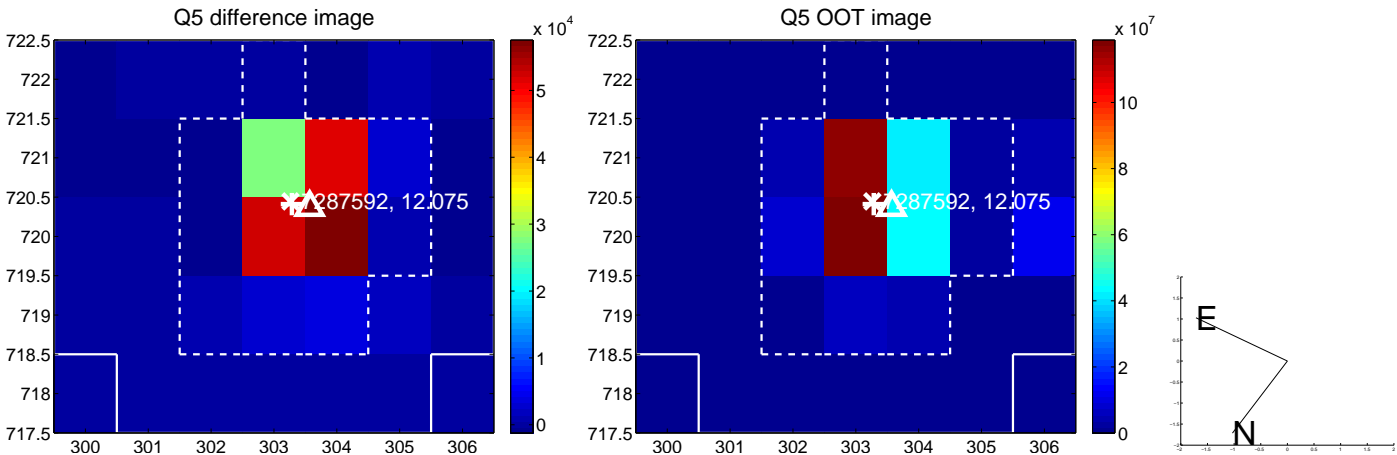


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

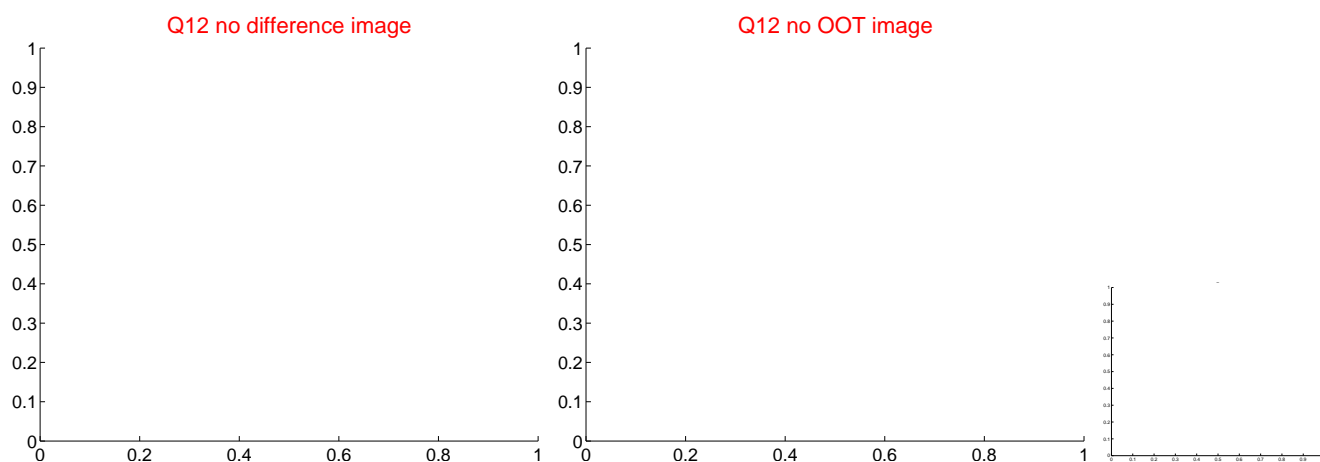
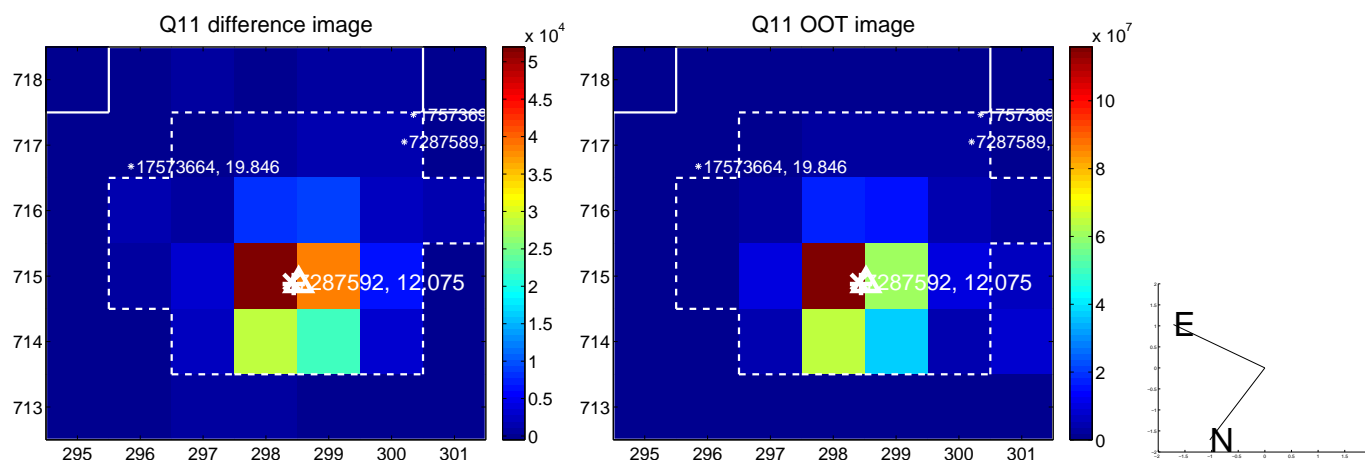
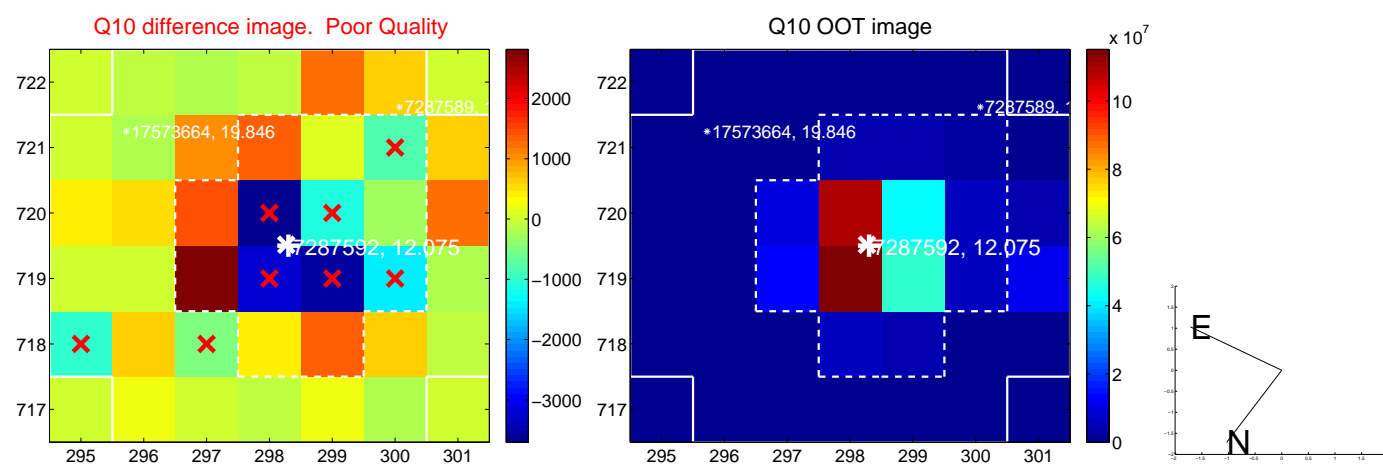
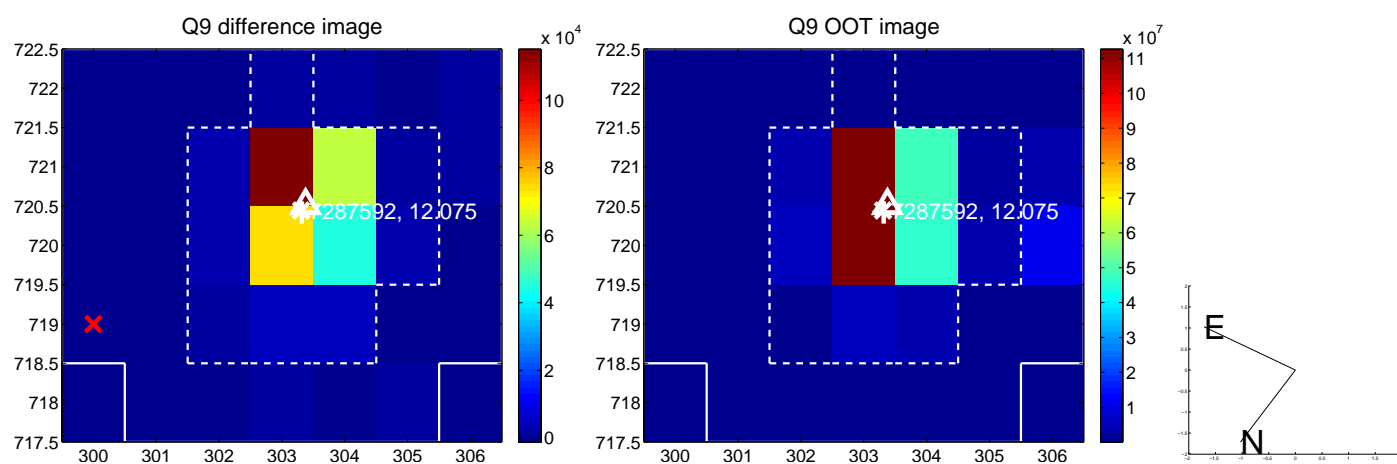
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



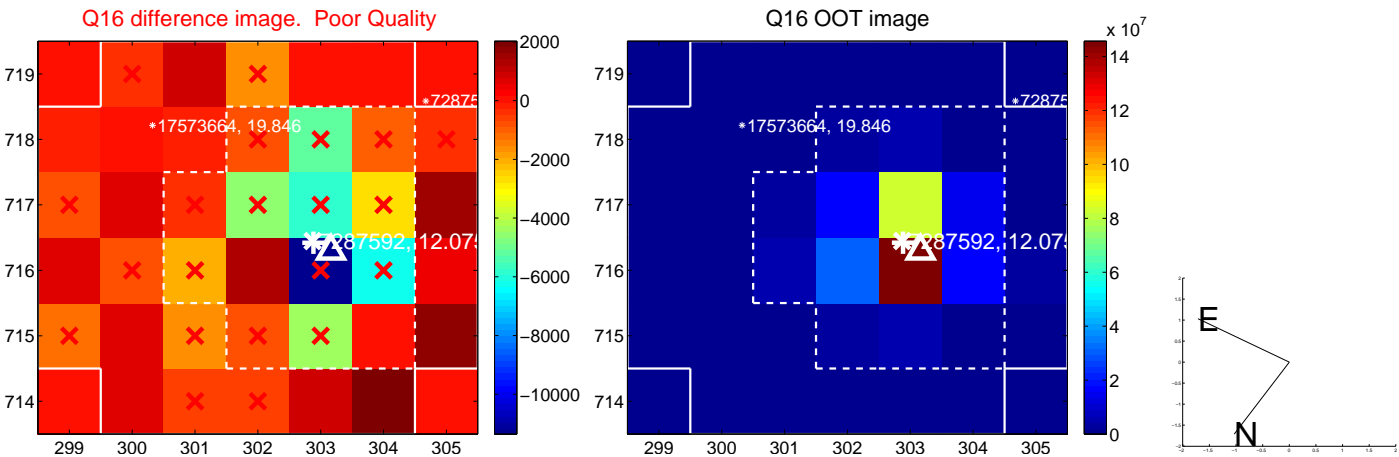
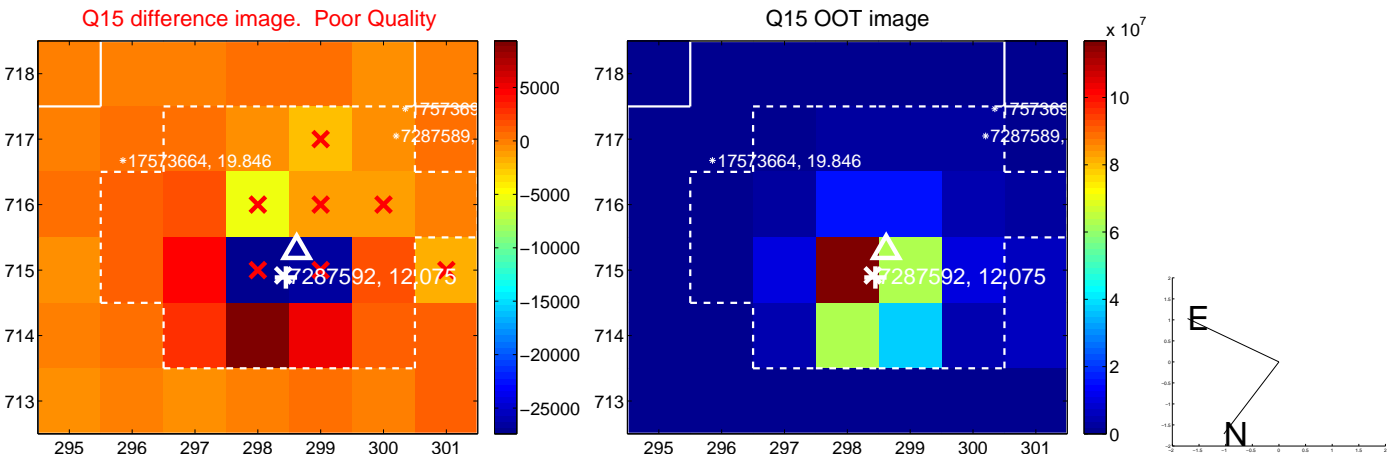
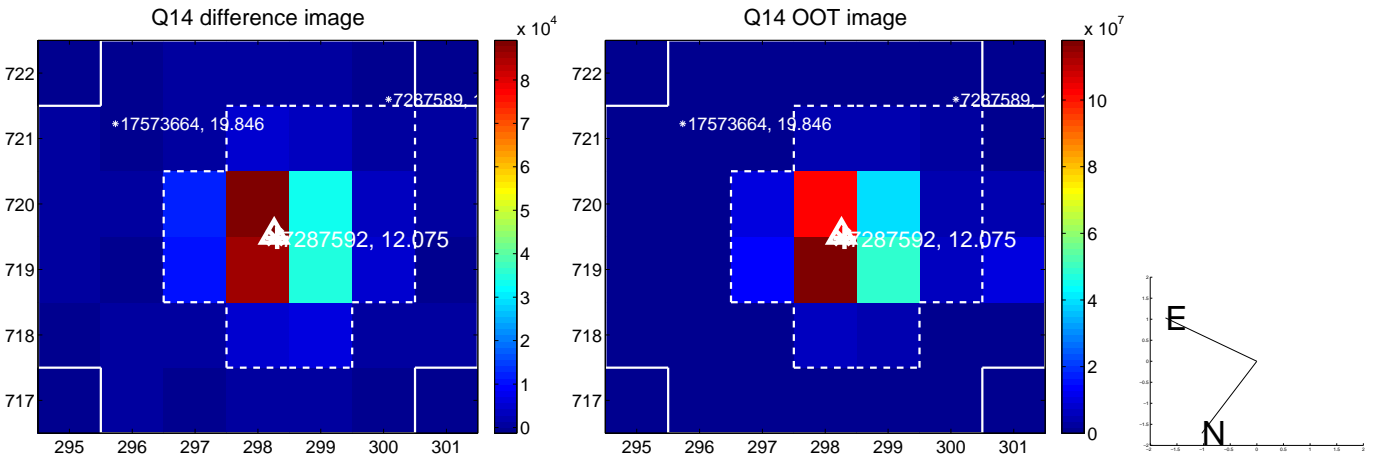
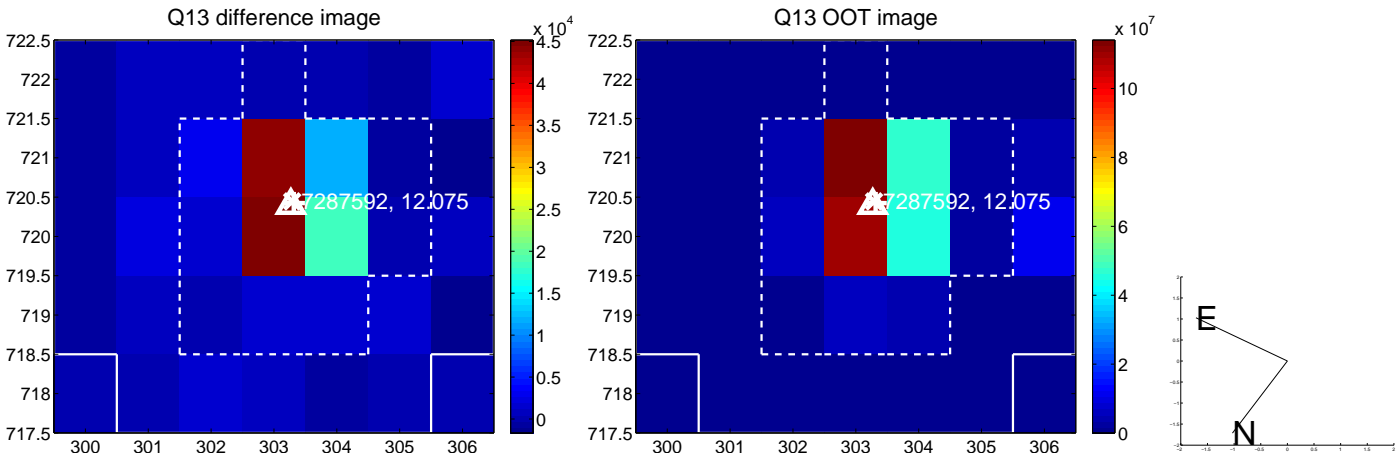
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



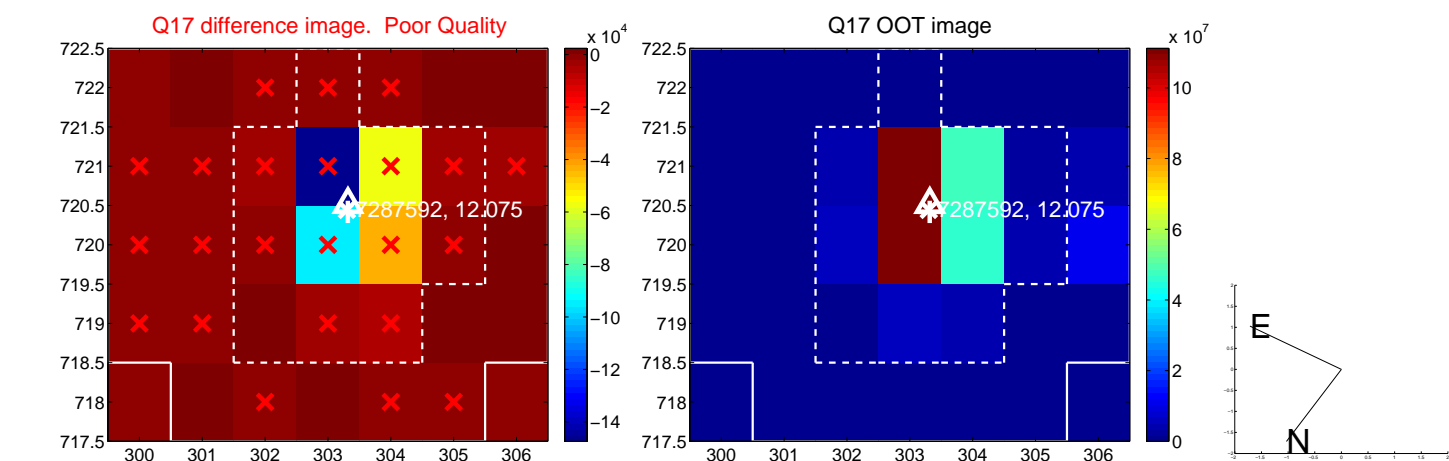
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



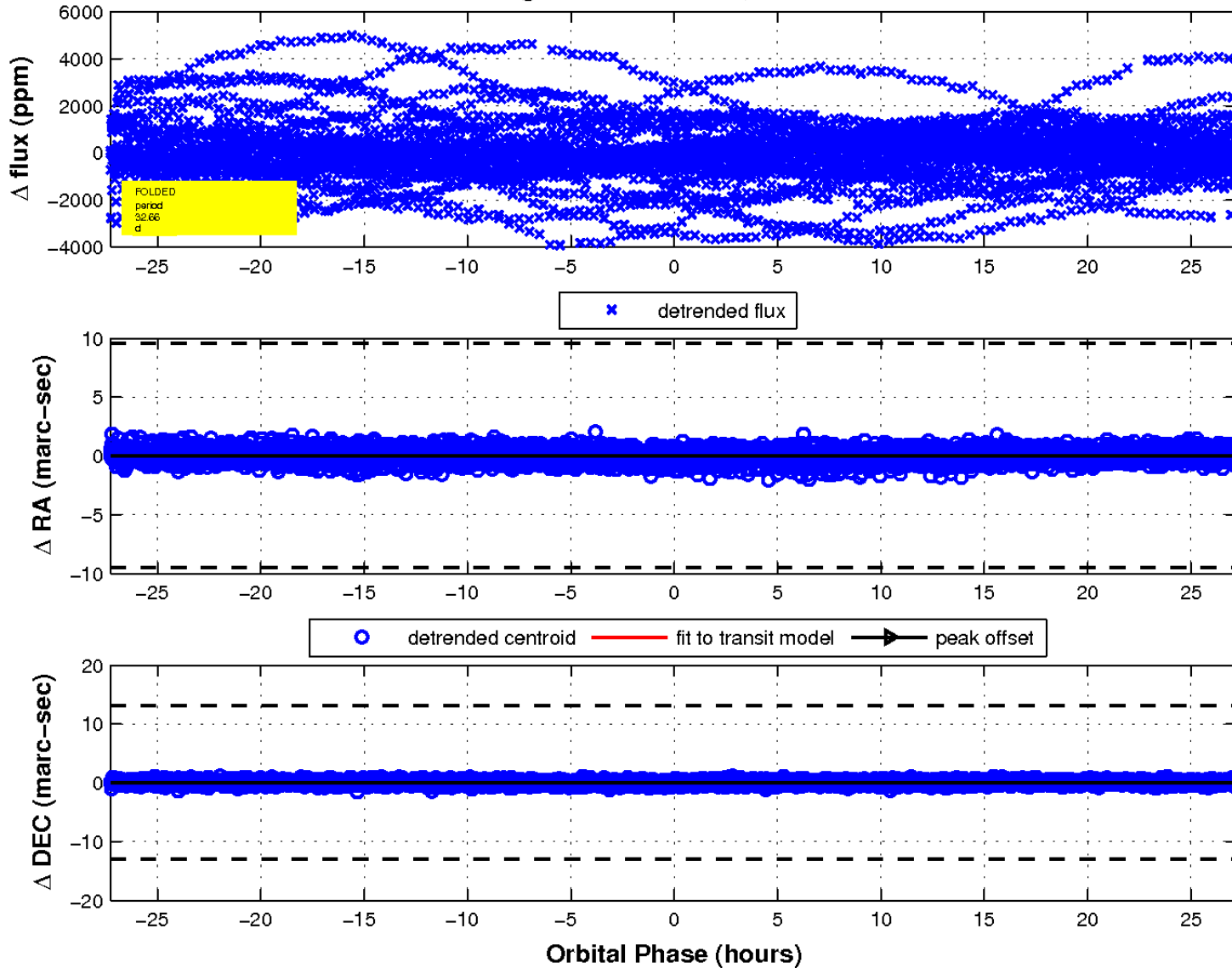
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

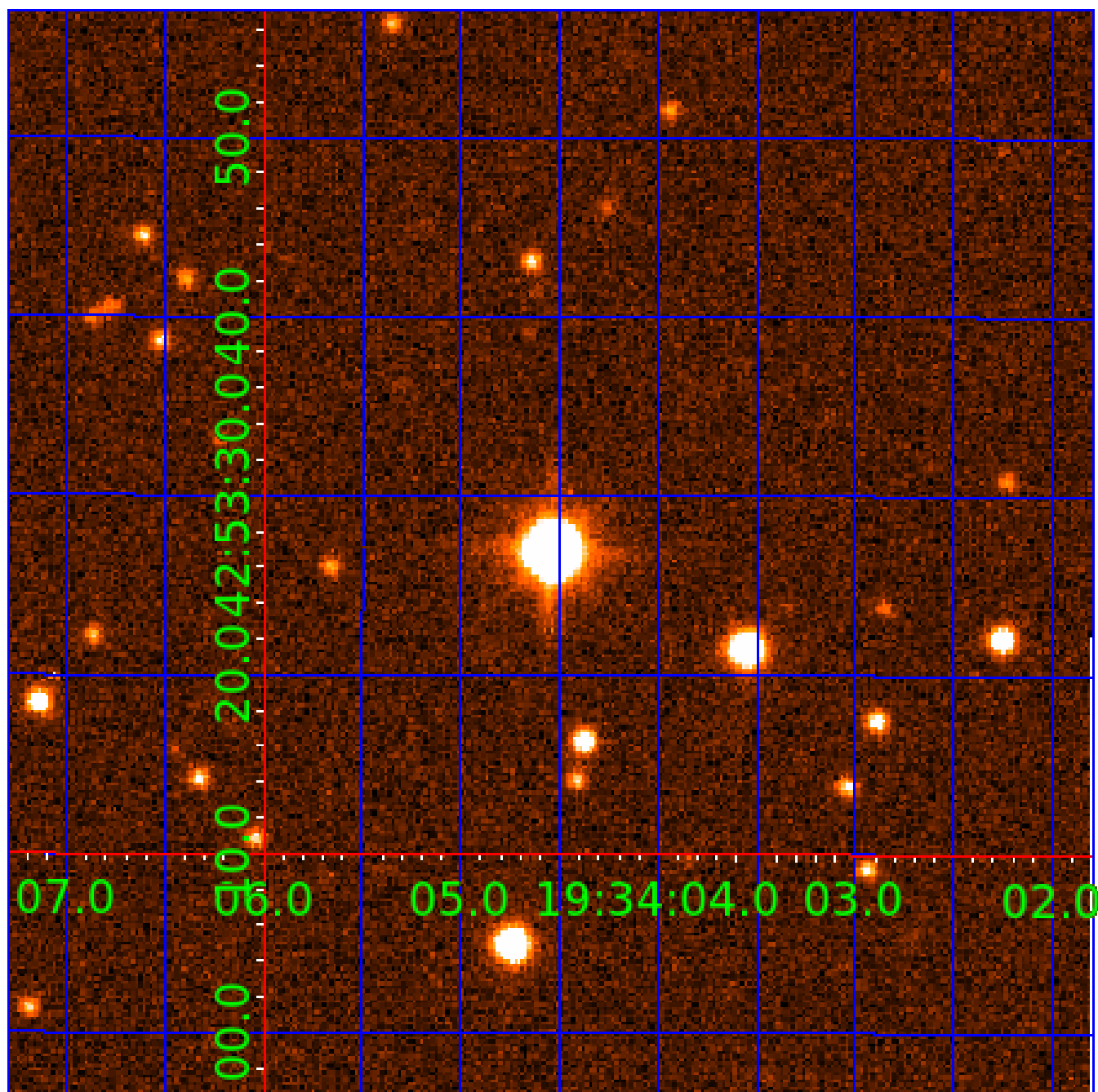


fluxWeightedCentroids, Planet 2 of 3



UKIRT Image

Declination



KIC 007287592

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})
007287592-01	OBS	No	1.316070	132.332682	18.7	8.762	9.7	4.8	1.84	6641	0.81	8666.51
007287592-02	OBS	No	32.656059	142.665051	533.7	9.093	9.2	6.2	1.84	6641	8.14	119.75
007287592-03	OBS	No	36.927082	157.608270	472.8	3.904	9.1	6.1	1.84	6641	7.71	101.65

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007287592-01	OBS	FP	0.00	1	0	0	0	LPP_DV
007287592-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
007287592-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT

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

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

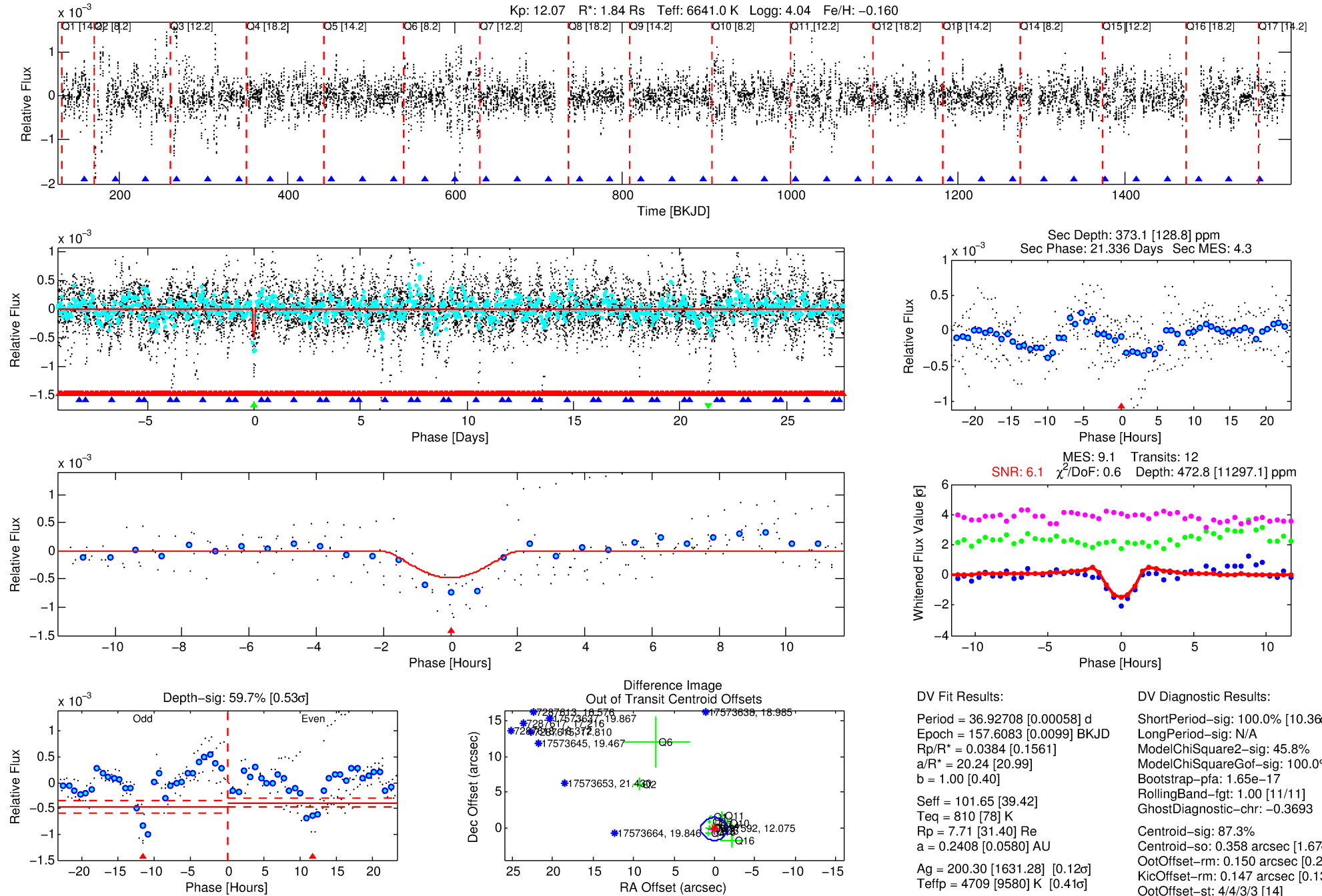
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007287592-03

No Significant Match Found

DV One-Page Summary

KIC: 7287592 Candidate: 3 of 3 Period: 36.927 d



DV Fit Results:

Period = 36.92708 [0.00058] d
 Epoch = 157.6083 [0.0099] BKJD
 Rp/R* = 0.0384 [0.1561]
 a/R* = 20.24 [20.99]
 b = 1.00 [0.40]
 Seff = 101.65 [39.42]
 Teq = 810 [78] K
 Rp = 7.71 [31.40] Re
 a = 0.2408 [0.0580] AU
 Ag = 200.30 [1631.28] [0.12 σ]
 Tefp = 4709 [9580] K [0.41 σ]

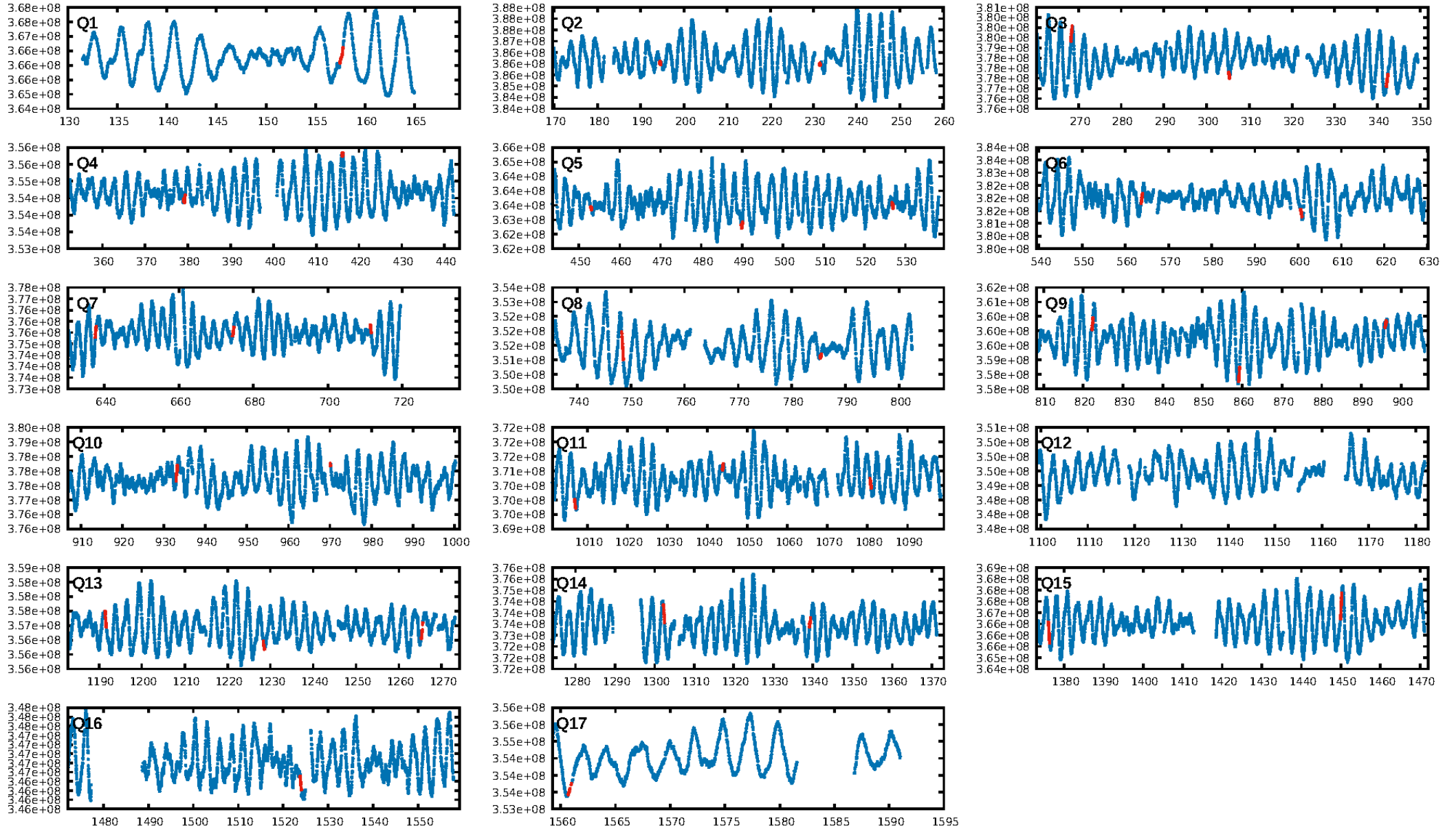
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [10.36 σ]
 LongPeriod-sig: N/A
 ModelChiSquare2-sig: 45.8%
 ModelChiSquareGof-sig: 100.0%
 Bootstrap-pfa: 1.65e-17
 RollingBand-fgt: 1.00 [11/11]
 GhostDiagnostic-chr: -0.3693
 Centroid-sig: 87.3%
 Centroid-so: 0.358 arcsec [1.67 σ]
 OotOffset-rm: 0.150 arcsec [0.28 σ]
 KicOffset-rm: 0.147 arcsec [0.13 σ]
 OotOffset-st: 4/4/3/3 [14]
 KicOffset-st: 4/4/3/3 [14]
 DiffImageQuality-fgm: 0.57 [8/14]
 DiffImageOverlap-fno: 0.27 [4/15]

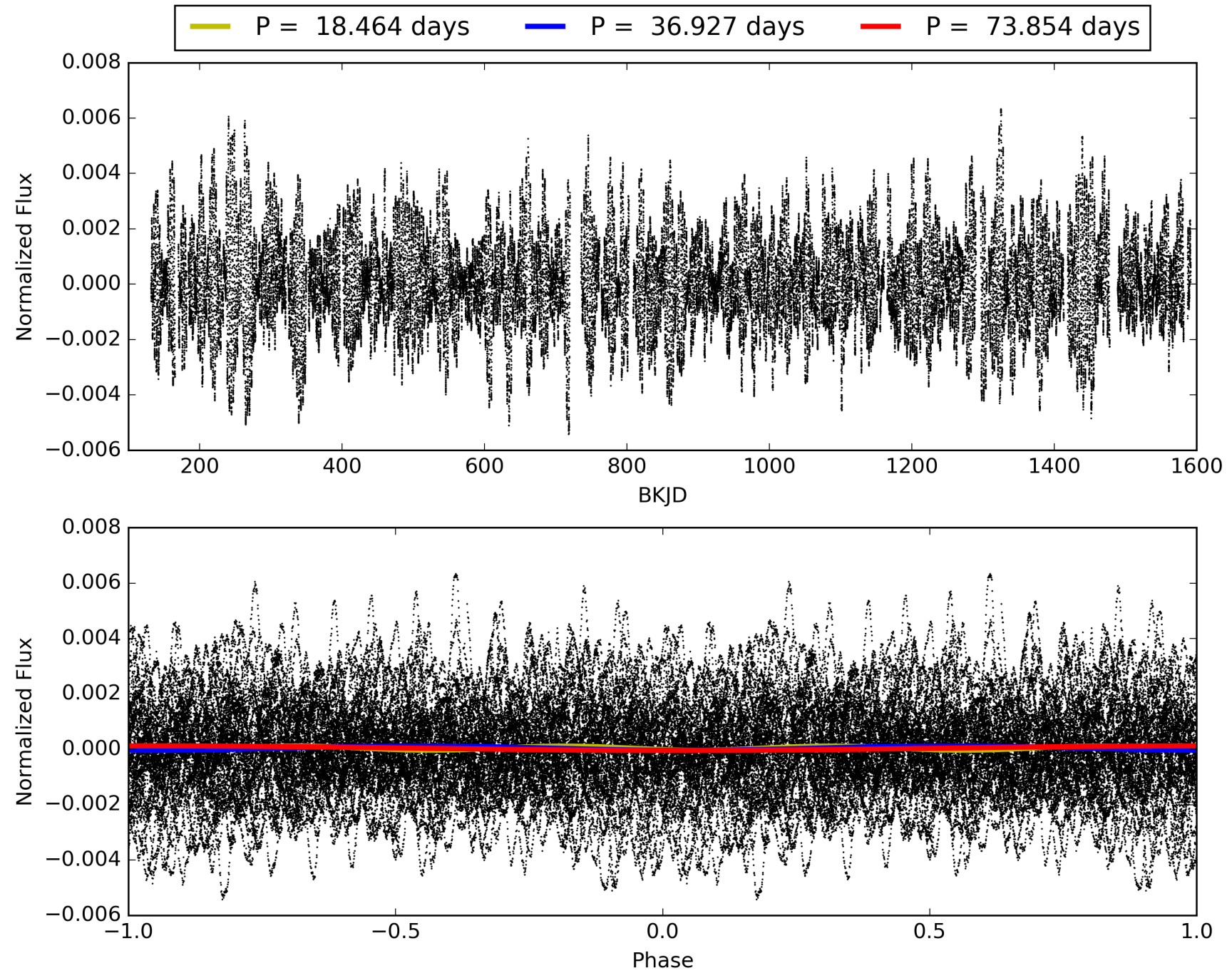
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 23:49:48 Z

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

TCE 007287592-03, PDC Light Curves

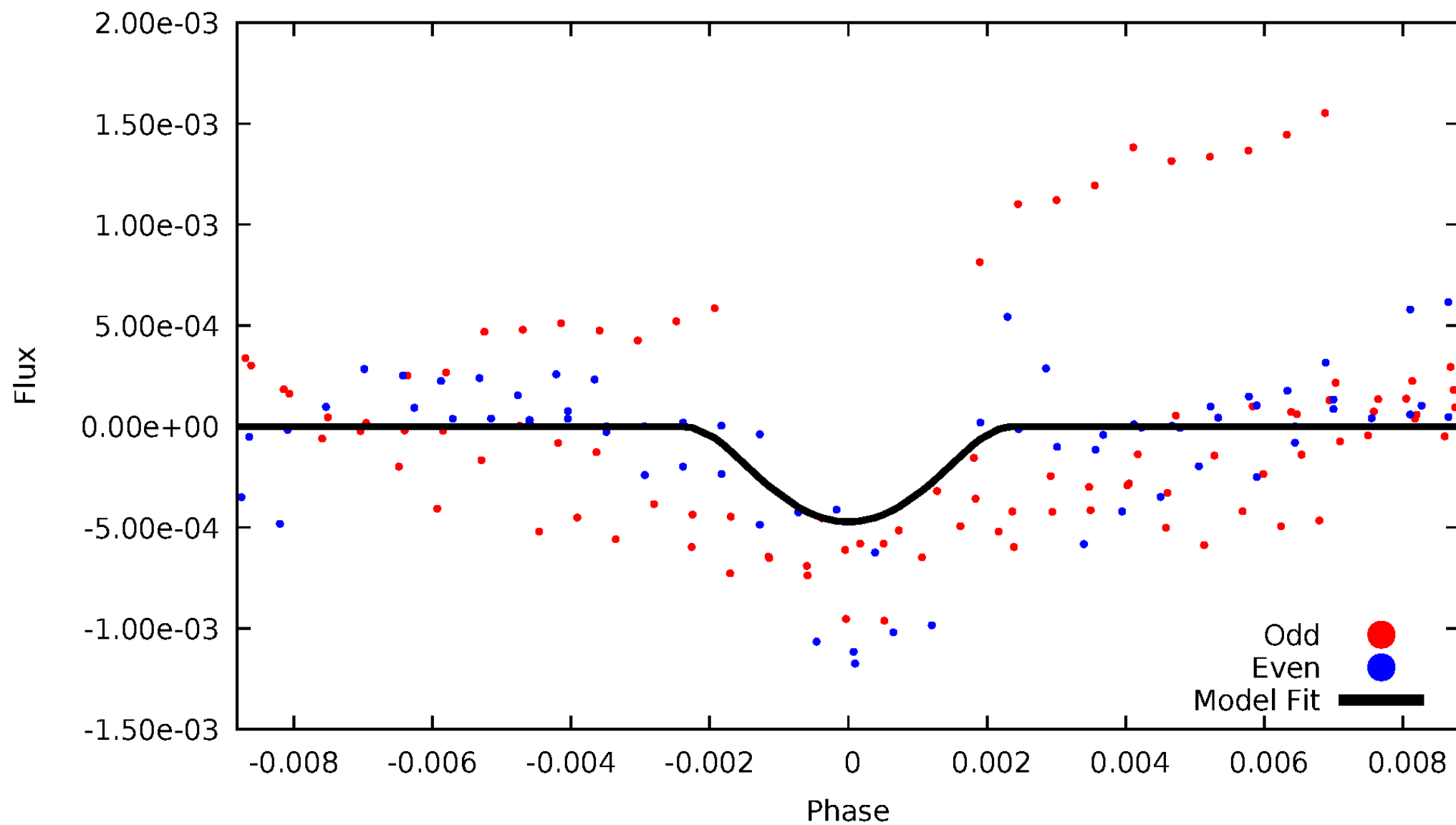


TCE 007287592-03



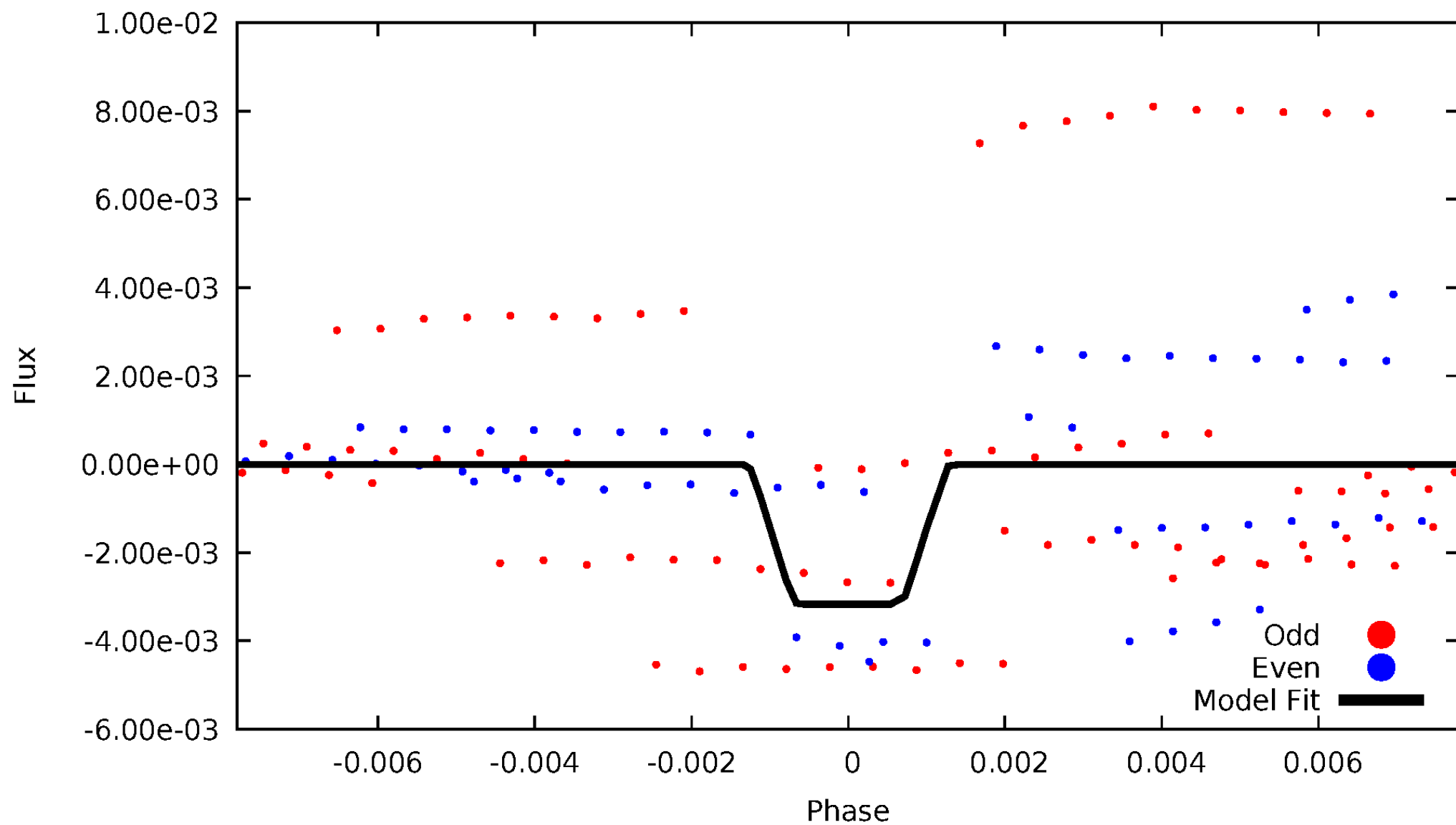
DV Odd/Even

TCE 007287592-03



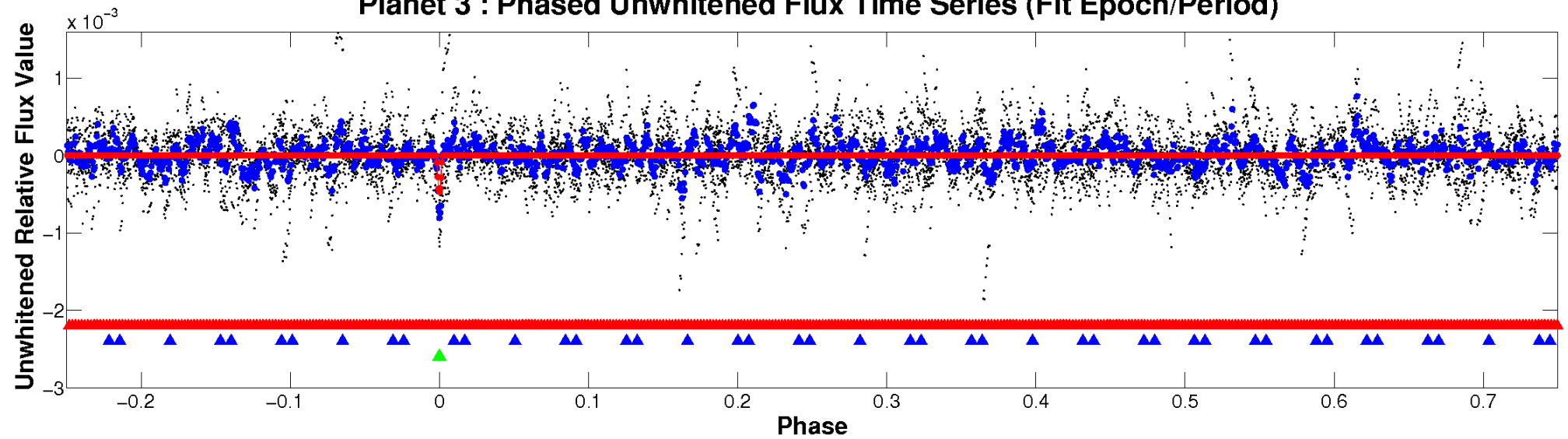
ALT Odd/Even

TCE 007287592-03

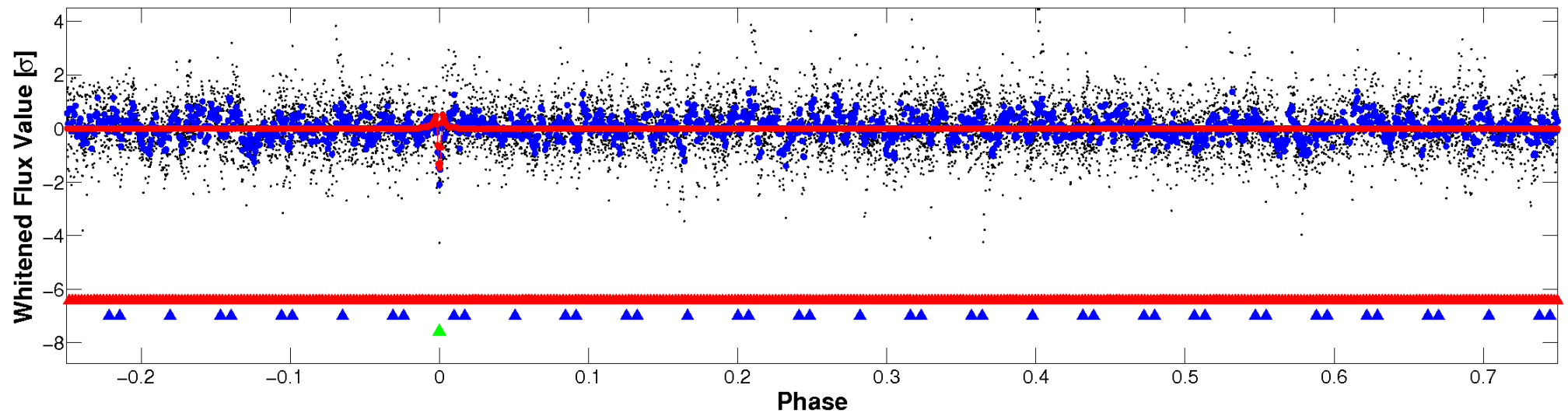


Non-Whitened Vs. Whitened Light Curve

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

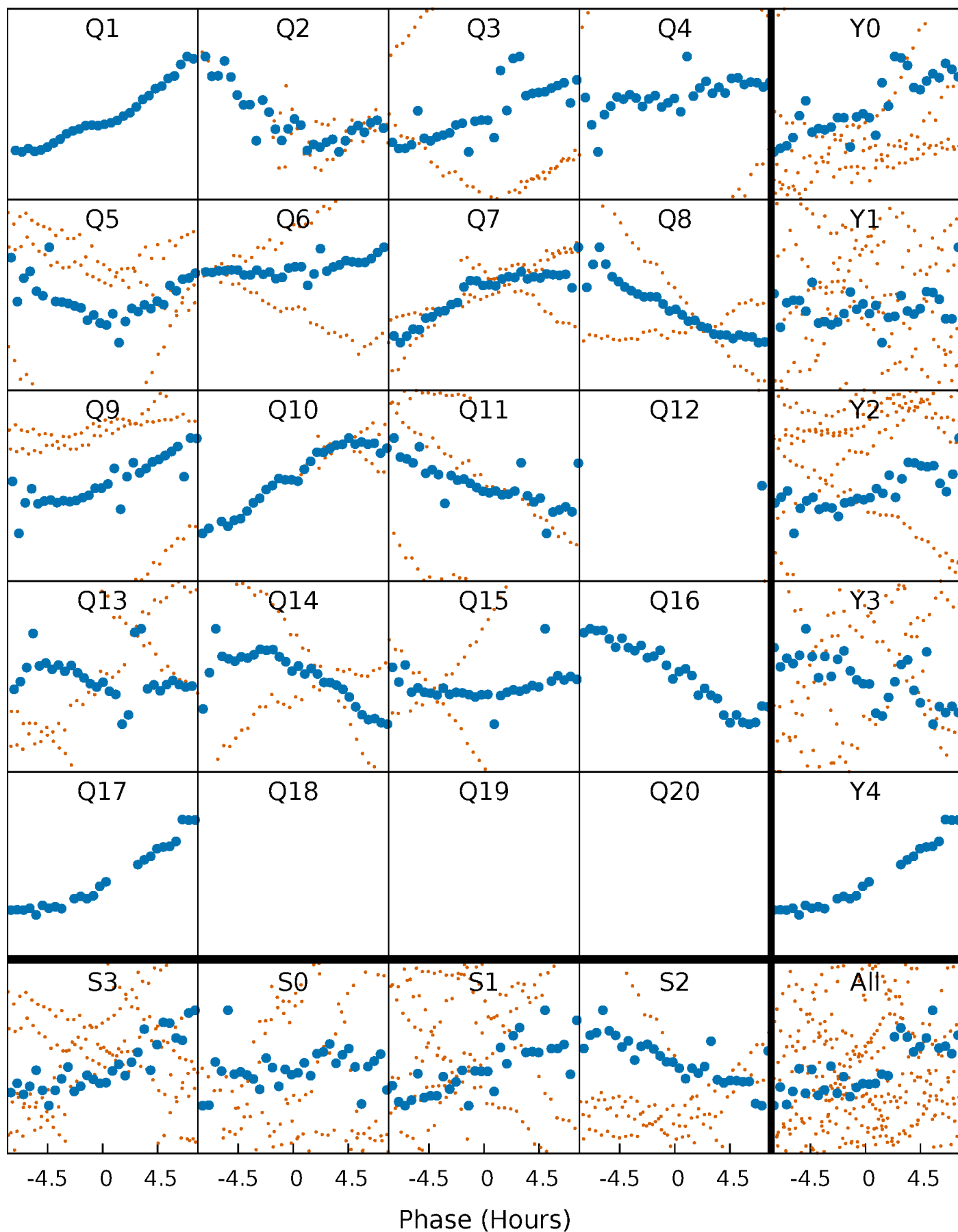


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



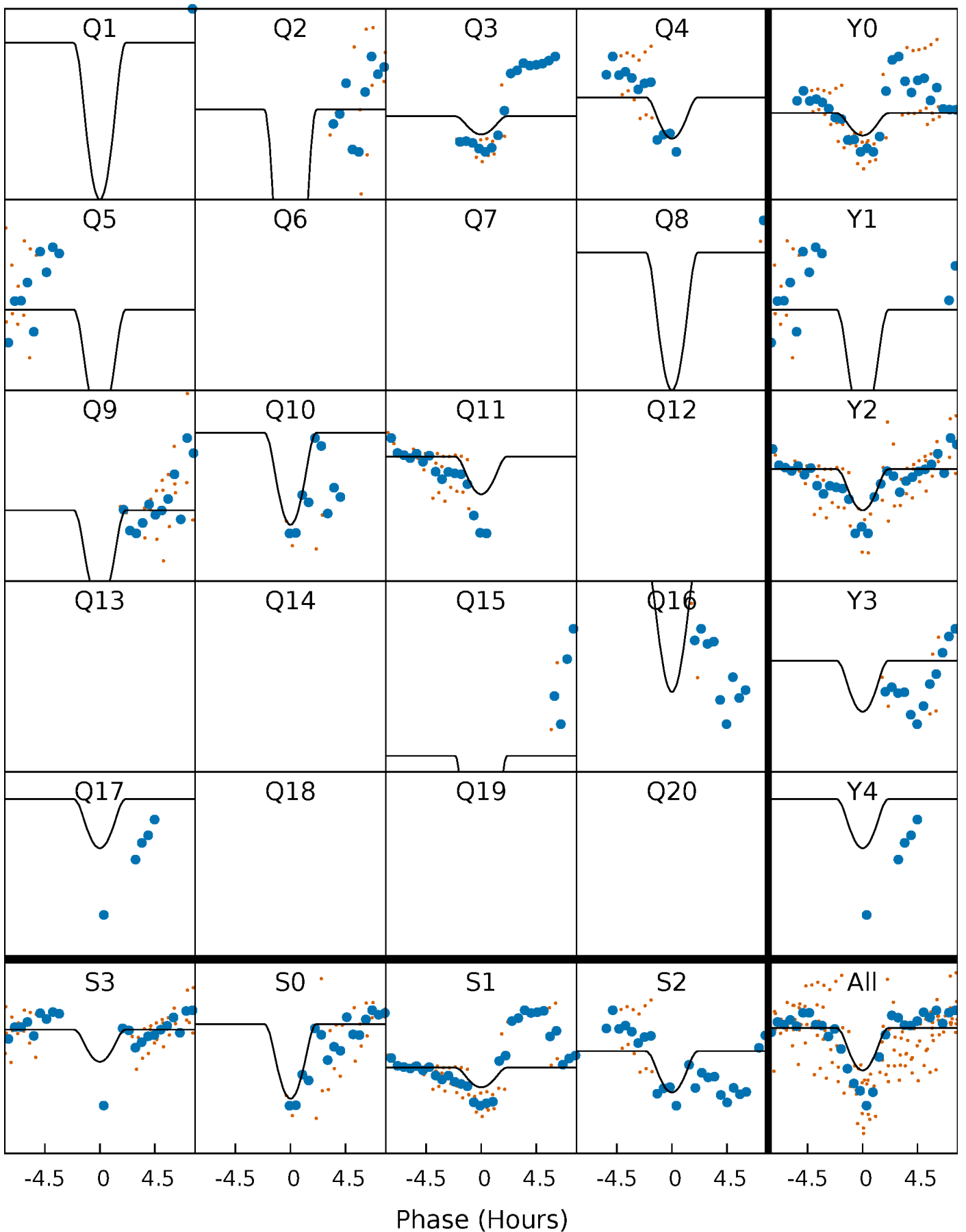
PDC Quarter-Phased Transit Curves

TCE 007287592-03 P= 36.927082 Days $T_0=157.608270$ (BKJD)



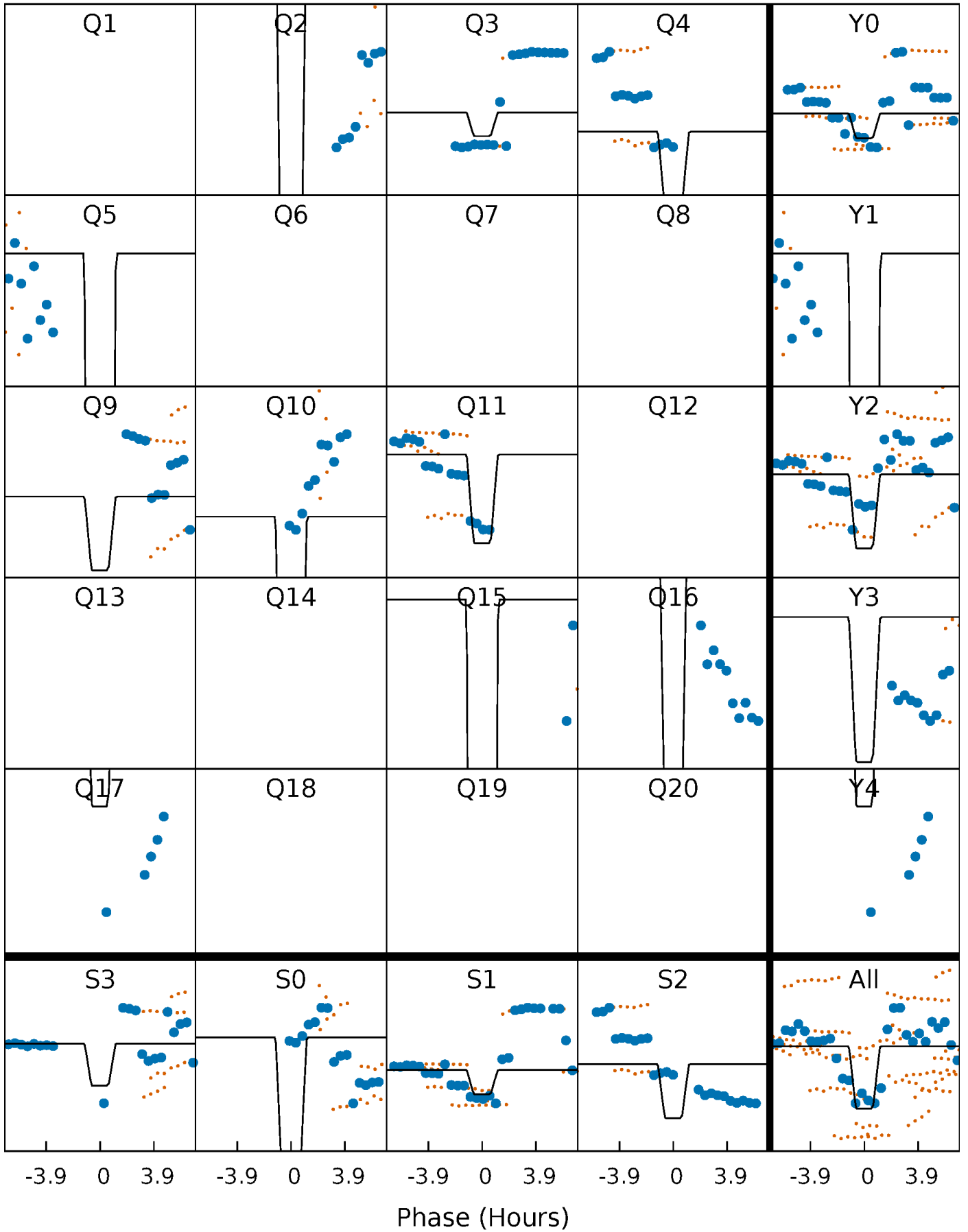
DV Quarter-Phased Transit Curves

TCE 007287592-03 P= 36.927082 Days $T_0=157.608270$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

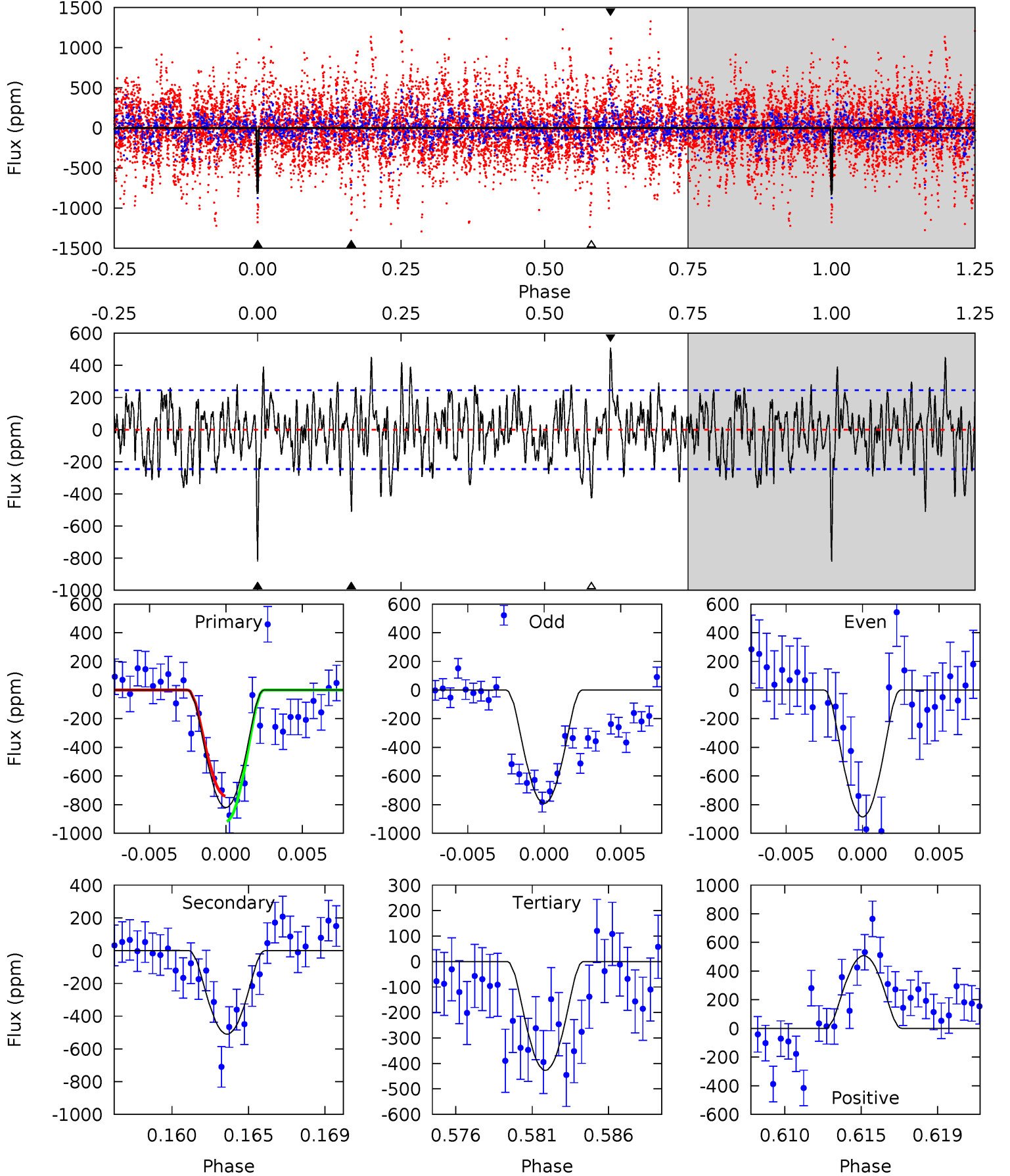
TCE 007287592-03 P= 36.926648 Days $T_0=157.617570$ (BKJD)



DV Model-Shift Uniqueness Test

007287592-03, P = 36.927082 Days, E = 120.681188 Days

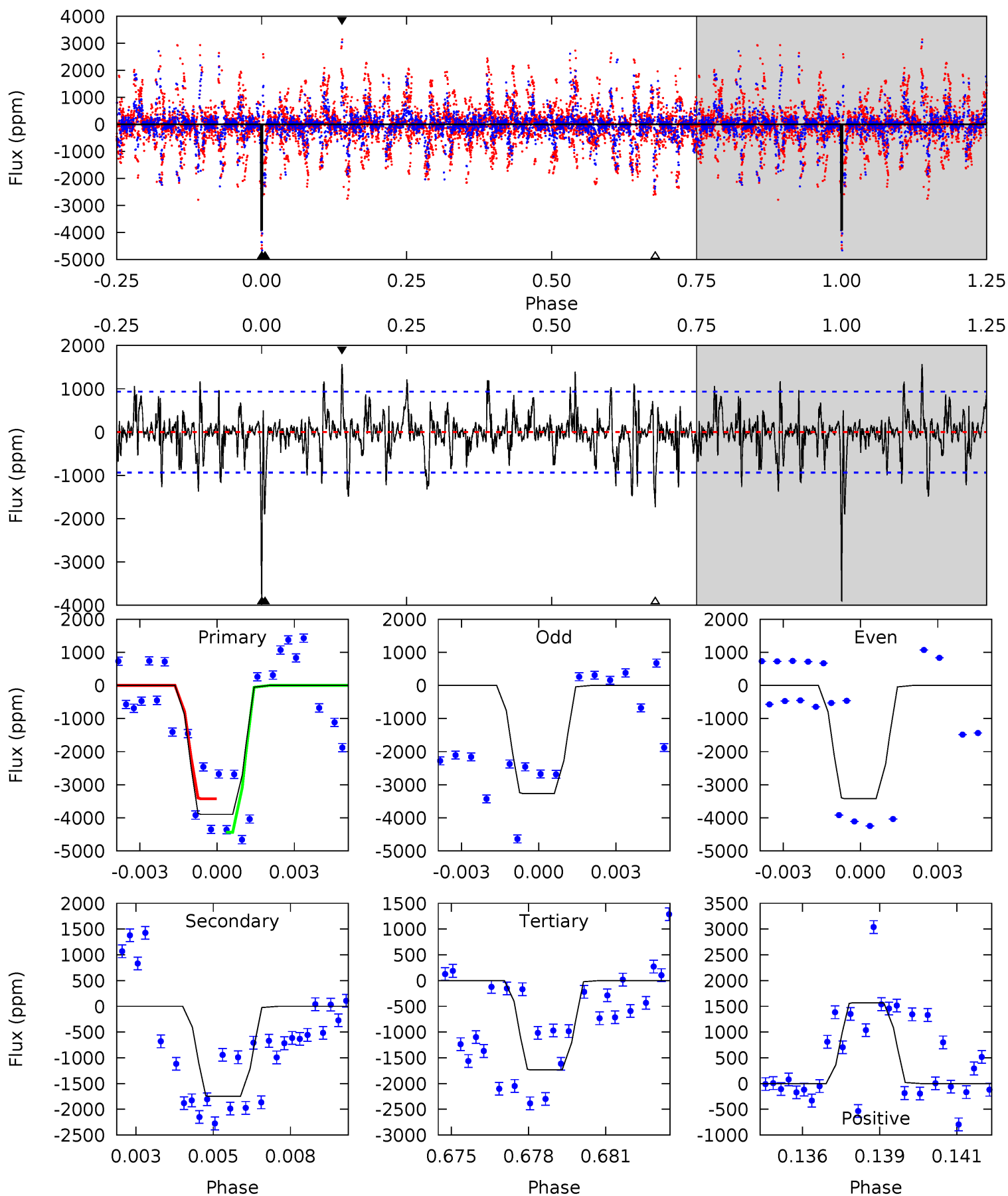
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.2	10.7	8.98	10.7	5.16	2.82	2.96	8.27	6.57	1.75	0.05	0.92	-0.16	0.38	1.81



Alt Model-Shift Uniqueness Test

007287592-03, P = 36.926648 Days, E = 120.690922 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.0	9.87	9.79	8.84	5.27	3.00	2.14	12.2	13.2	0.08	1.03	0.36	0.94	0.29	2.82



Stellar Parameters For KIC 007287592

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6641^{+150}_{-200}	$4.044^{+0.210}_{-0.140}$	$-0.160^{+0.250}_{-0.250}$	$1.839^{+0.404}_{-0.493}$	$1.371^{+0.165}_{-0.248}$	$0.311^{+0.377}_{-0.129}$
	+2%/-3%	+5%/-3%	+156%/-156%	+22%/-27%	+12%/-18%	+121%/-41%
Source	PHO1	FLK73	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 007287592-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-510 ± 48	$22.26^{+25.16}_{-16.00}$	1129^{+72}_{-83}	3437^{+2255}_{-668}	32^{+368}_{-25}
Alt.	-1749 ± 177	$25.45^{+26.75}_{-17.34}$	1125^{+71}_{-80}	4017^{+2554}_{-798}	84^{+799}_{-63}

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

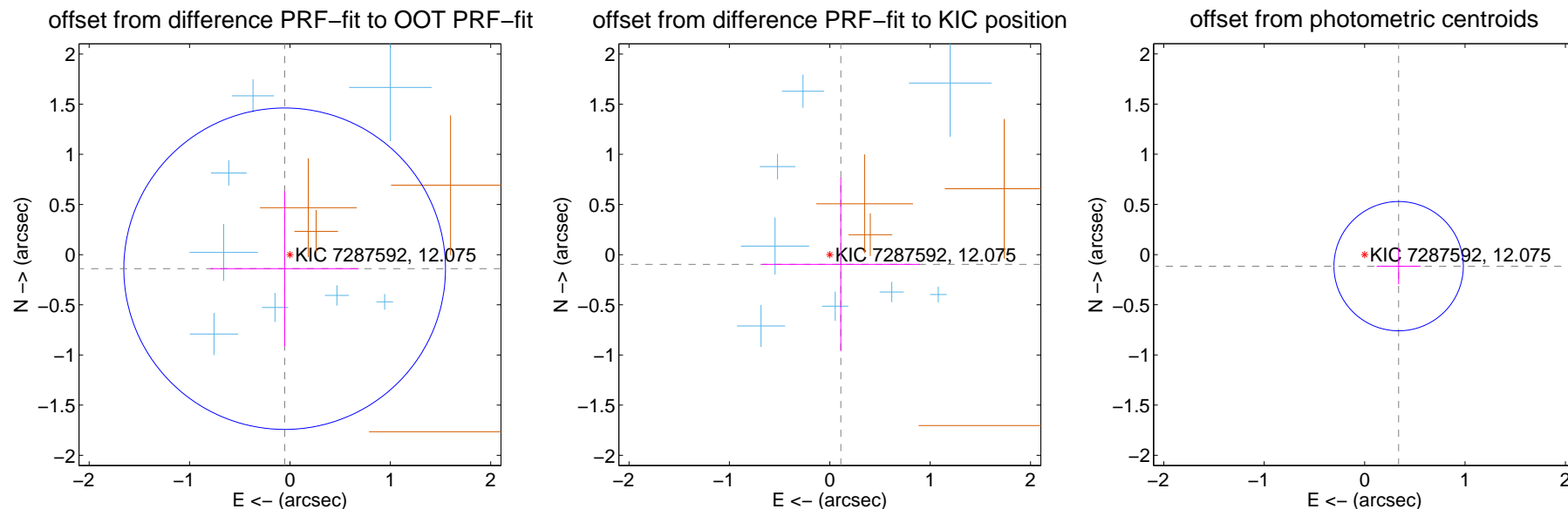
DV Centroid Data

Supplemental centroid analysis for 007287592-03. Kepler magnitude: 12.07. Transit SNR 6.06

There are 8 quarters with good PRF difference image offsets

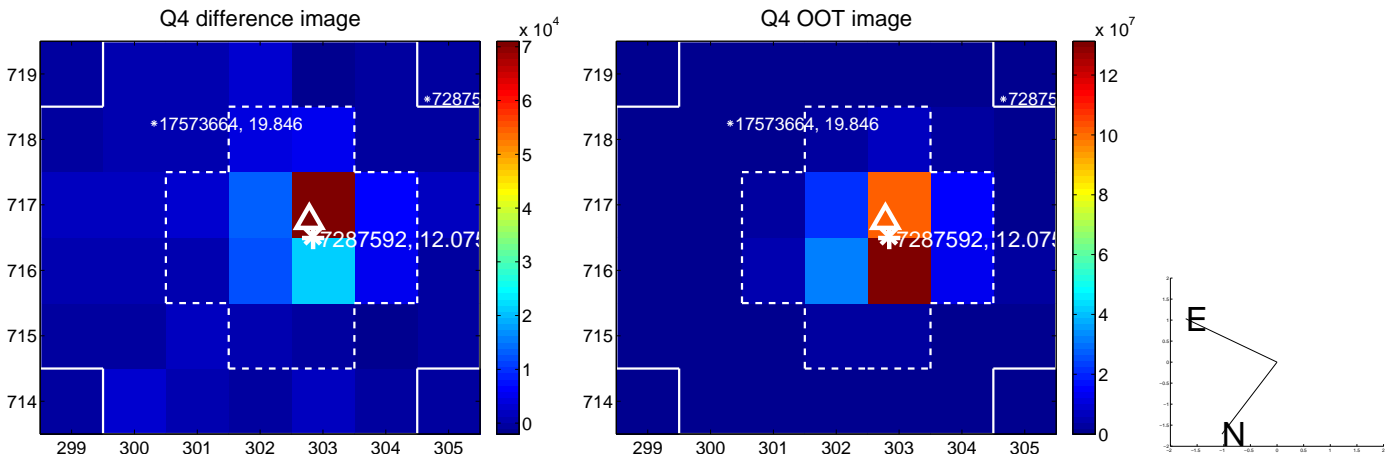
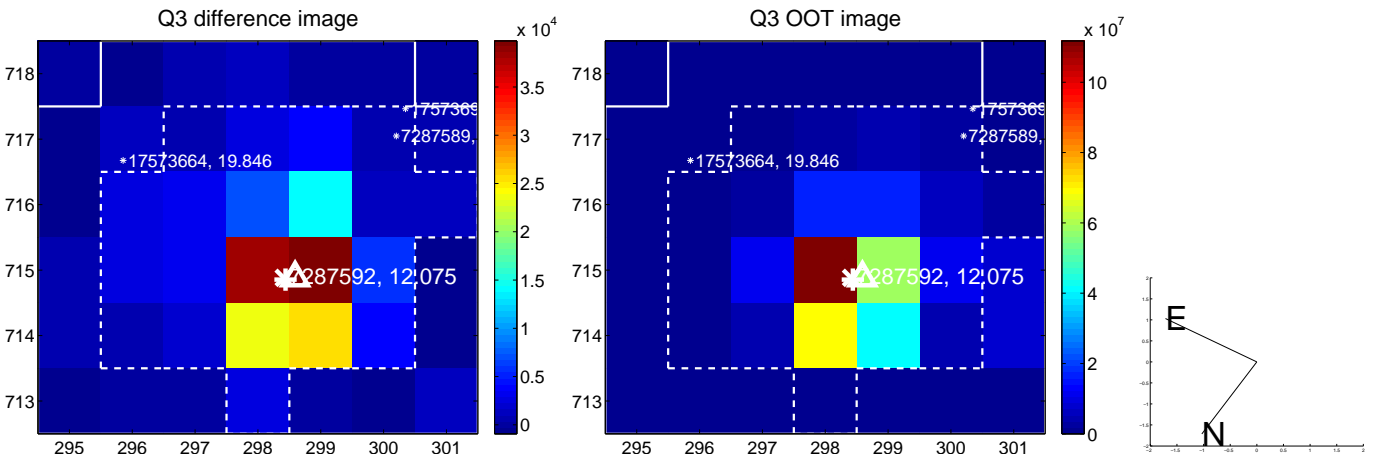
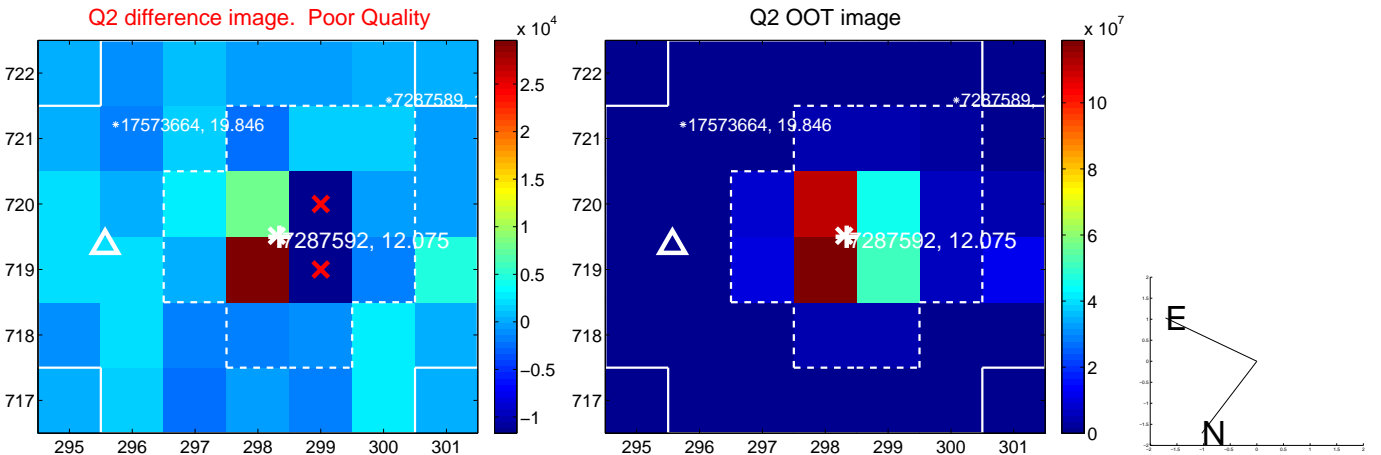
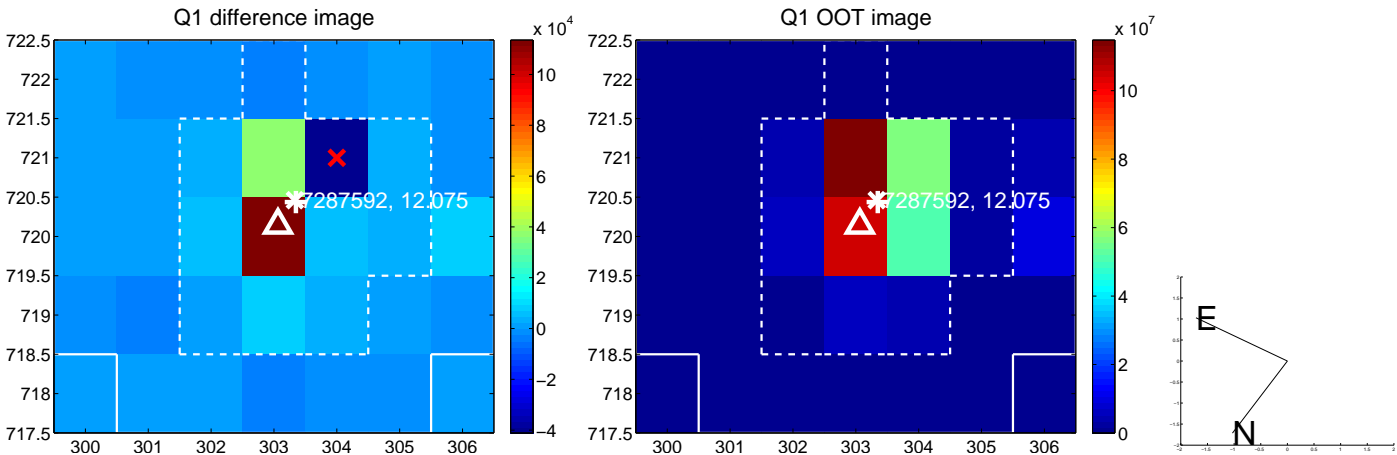
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.150 ± 0.534	0.28	0.053 ± 0.740	-0.140 ± 0.773
PRF-fit source offset from KIC position	0.147 ± 1.107	0.13	-0.110 ± 0.787	-0.097 ± 0.864
photometric centroid source offset	0.36 ± 0.21	1.67	-0.34 ± 0.22	-0.12 ± 0.18

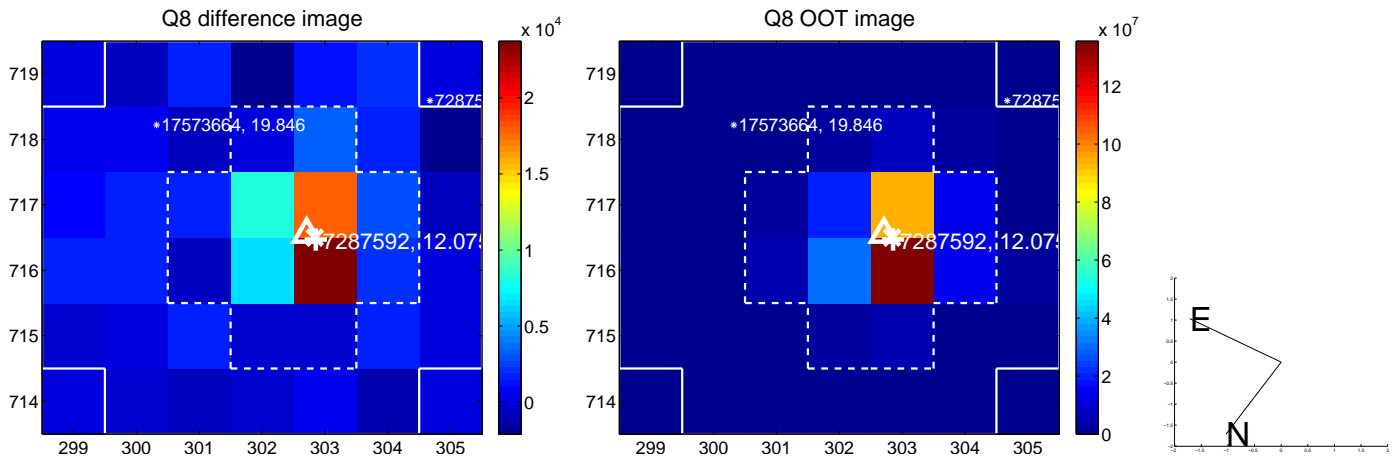
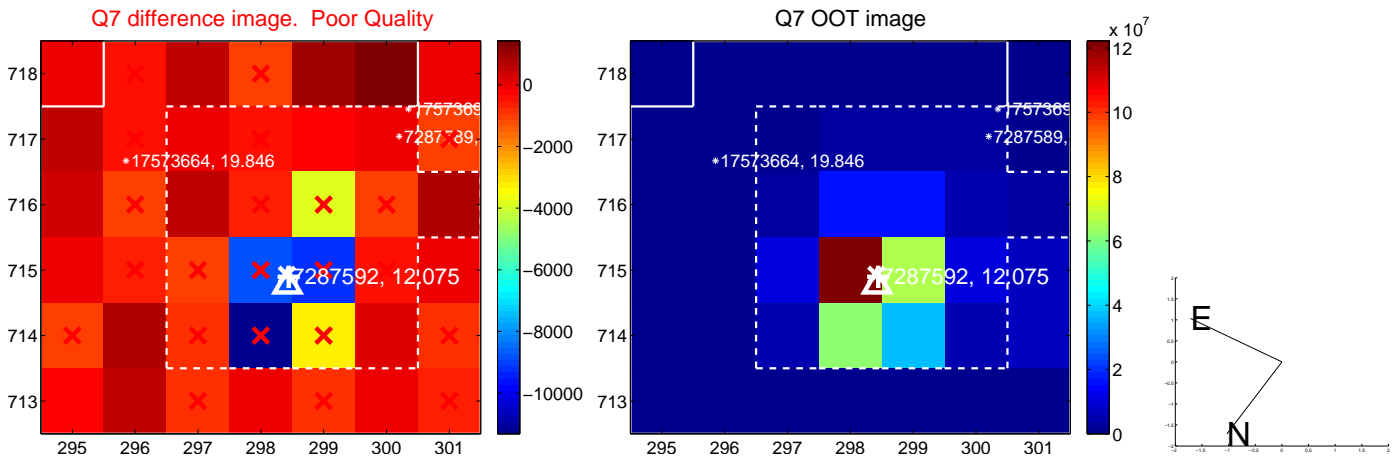
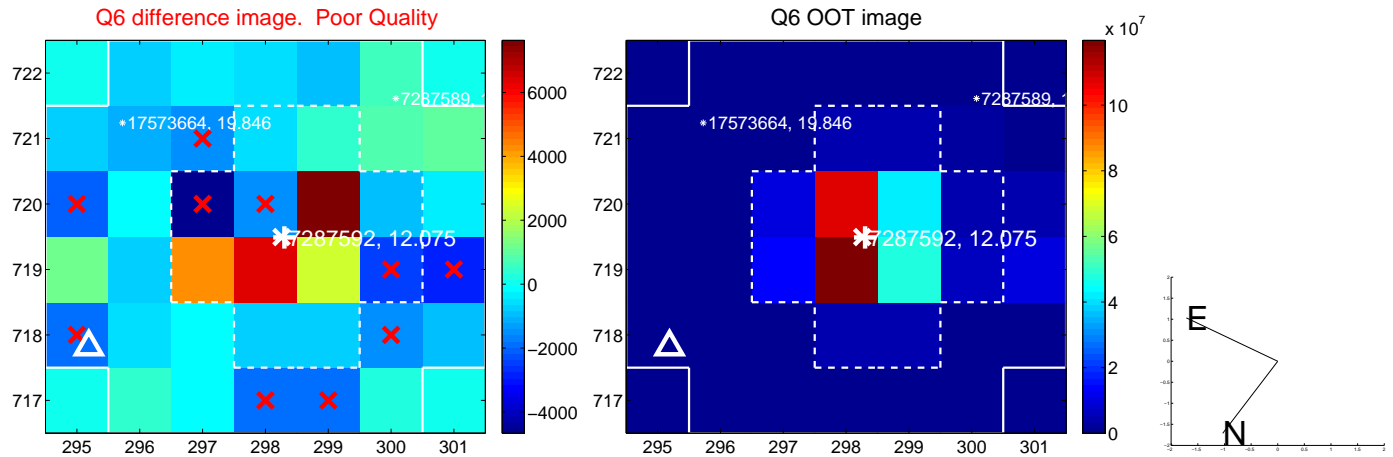
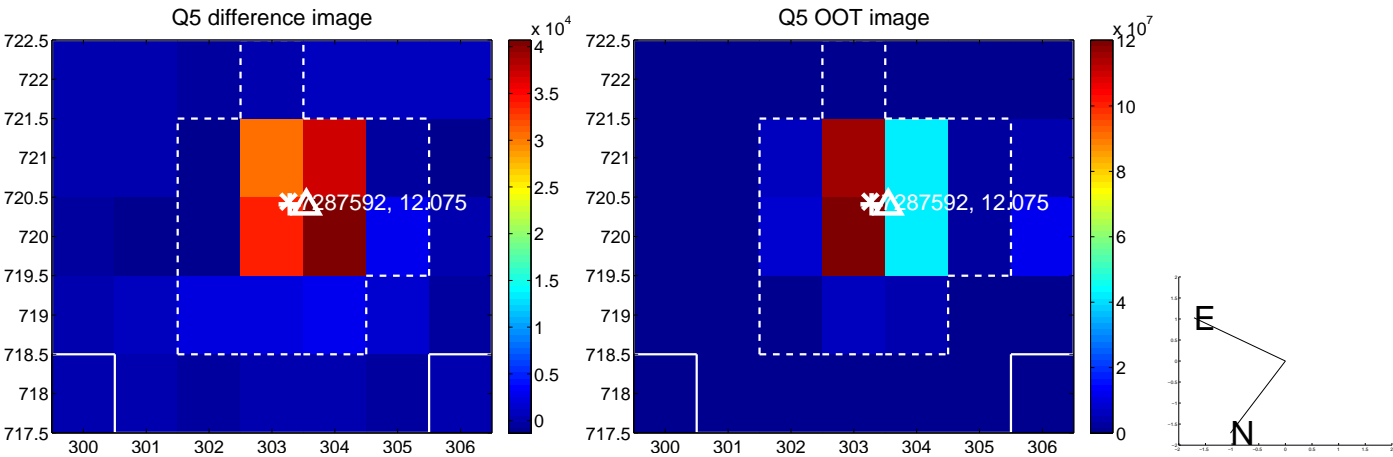


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

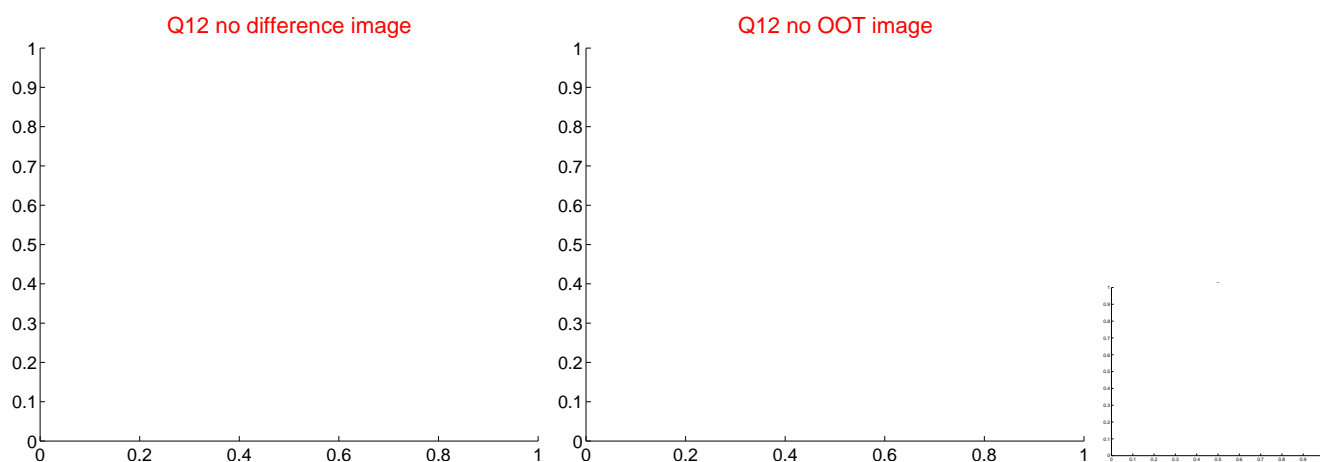
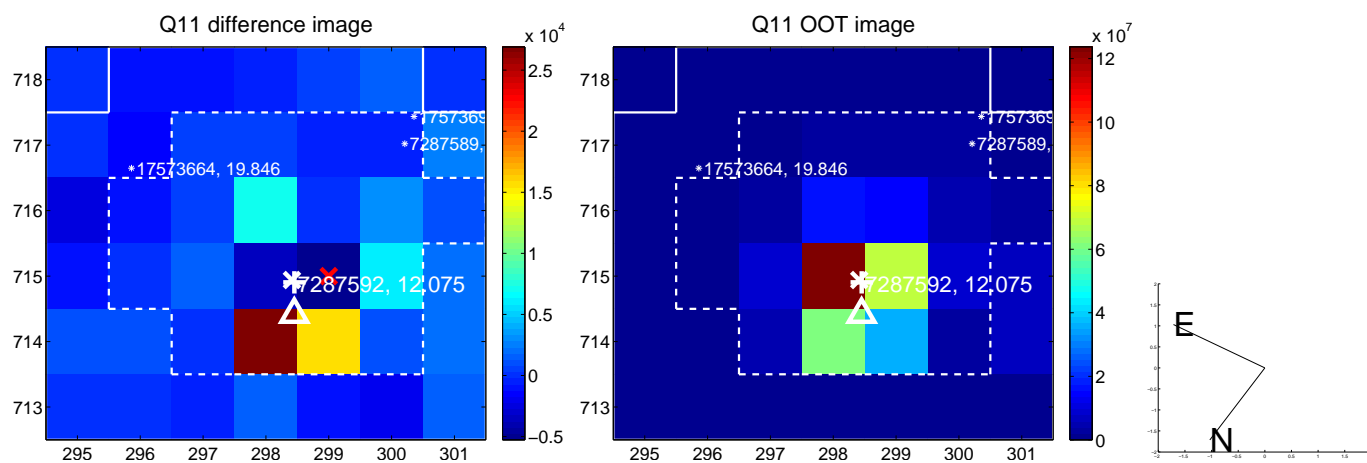
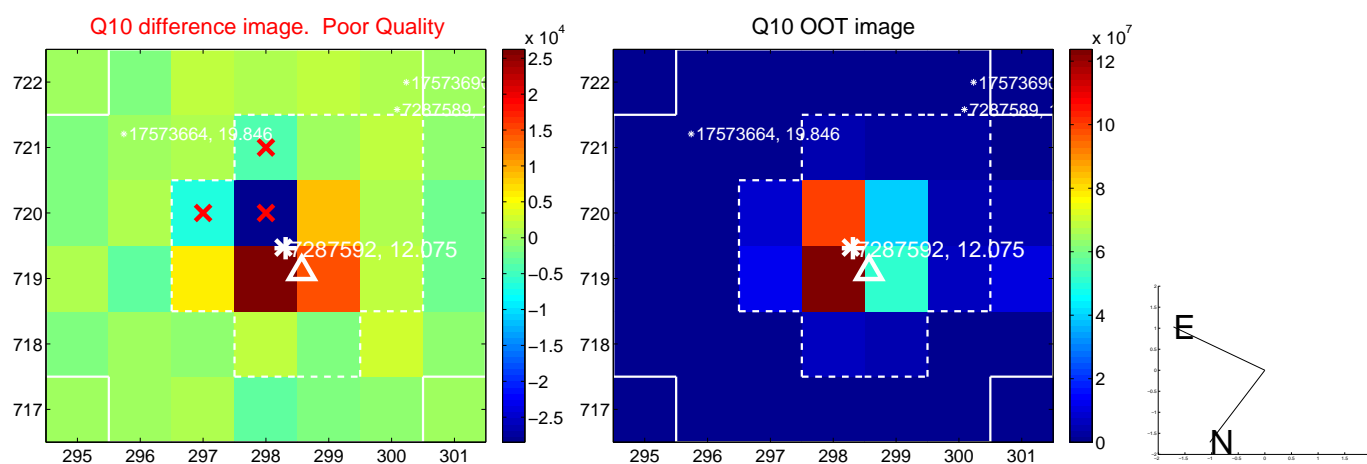
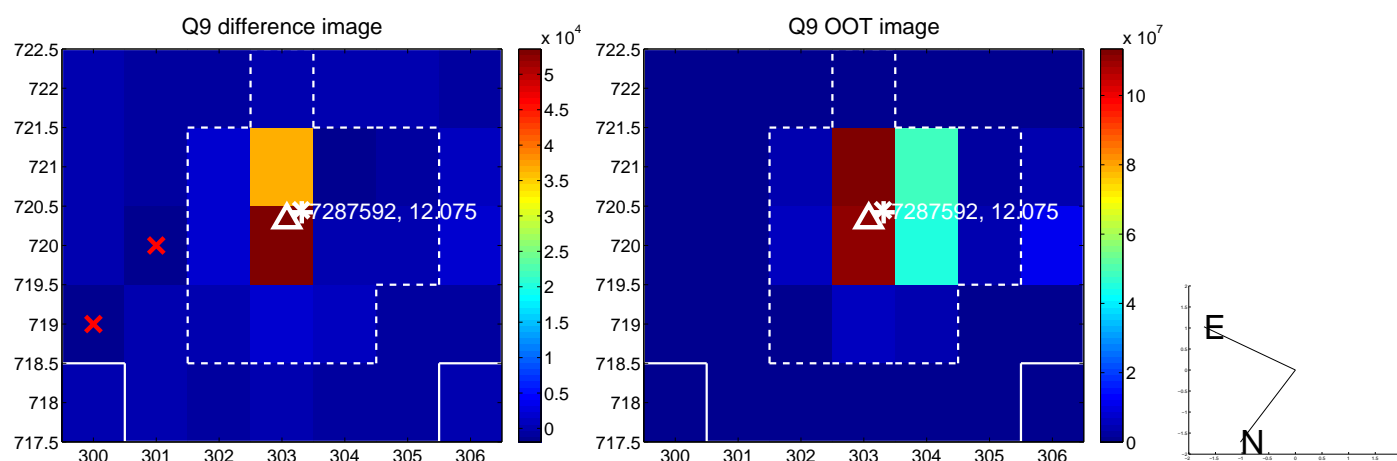
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



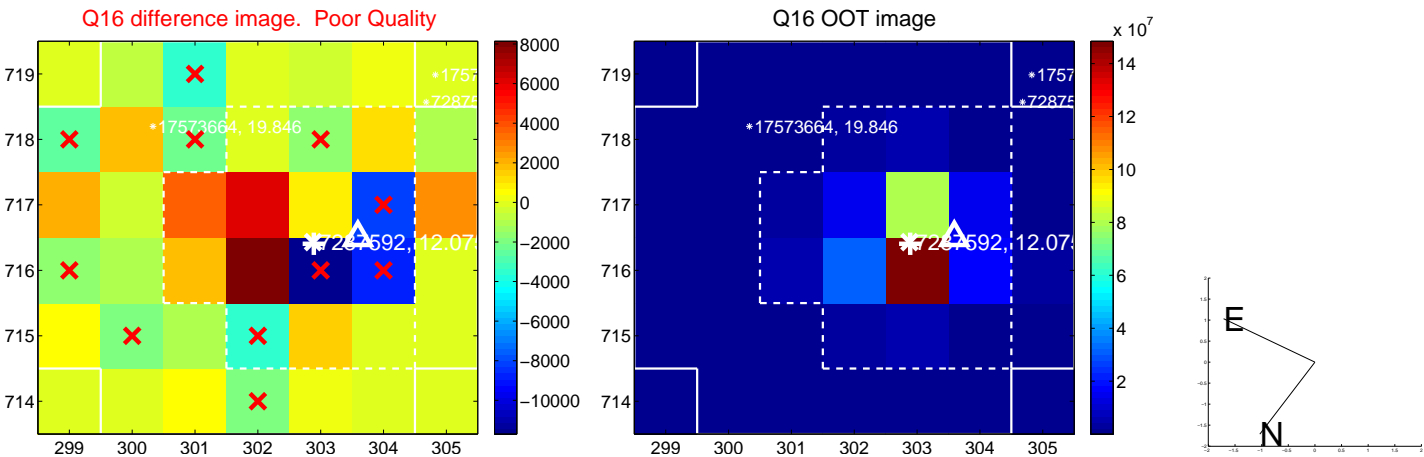
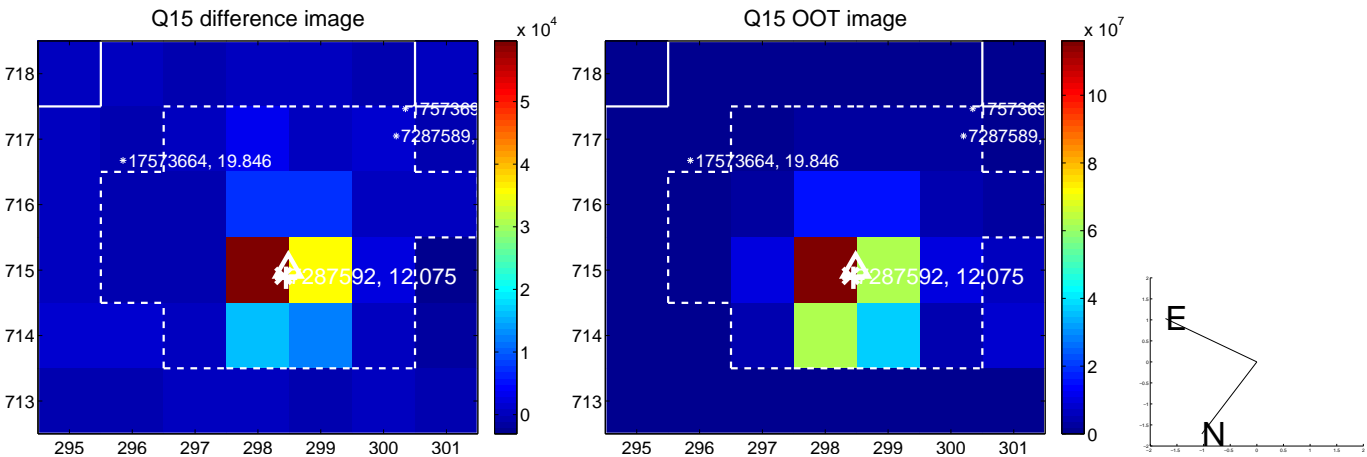
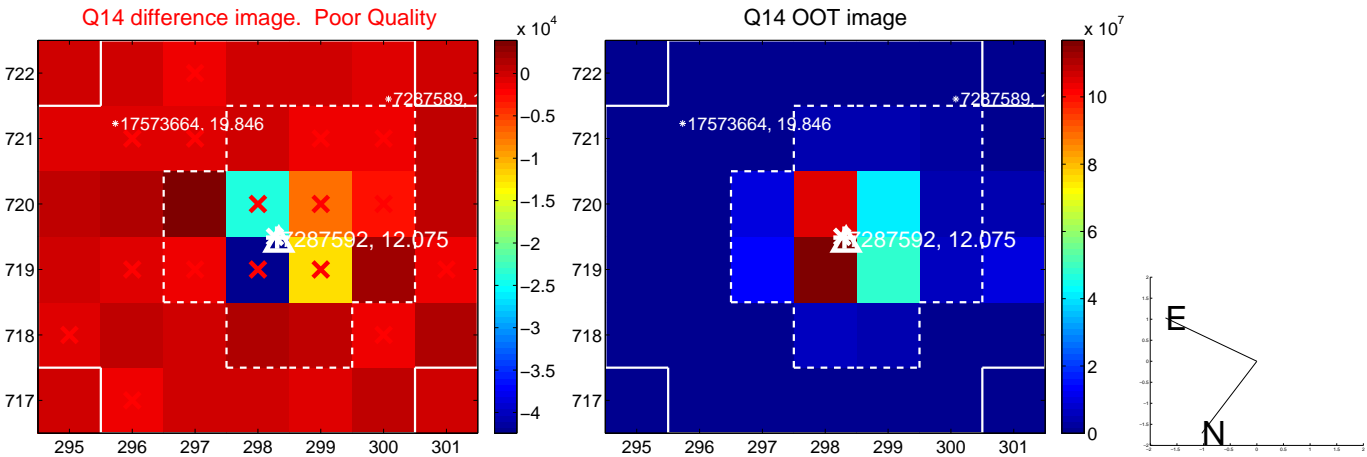
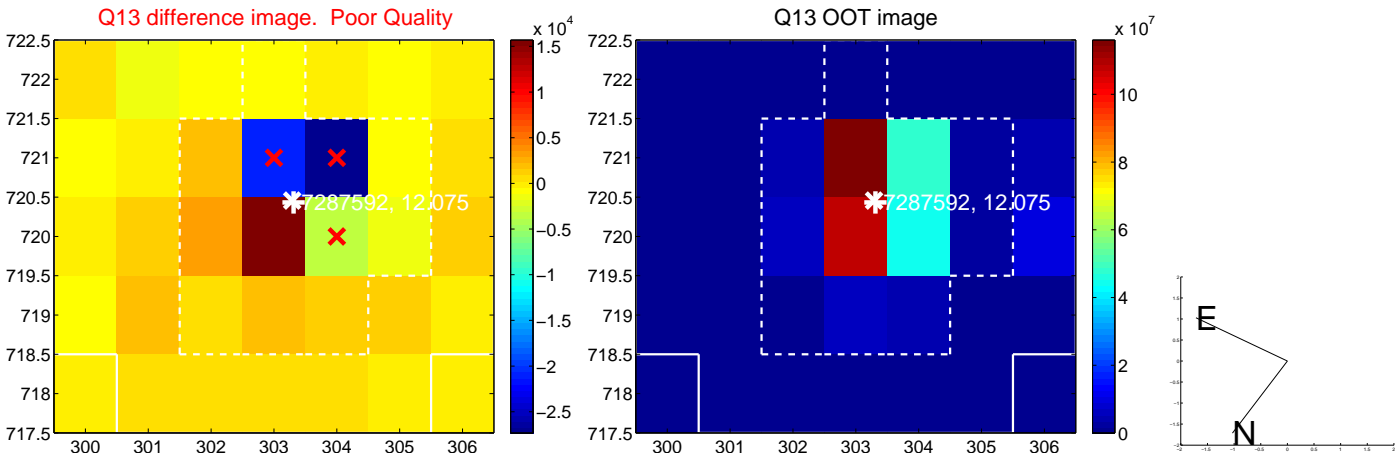
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



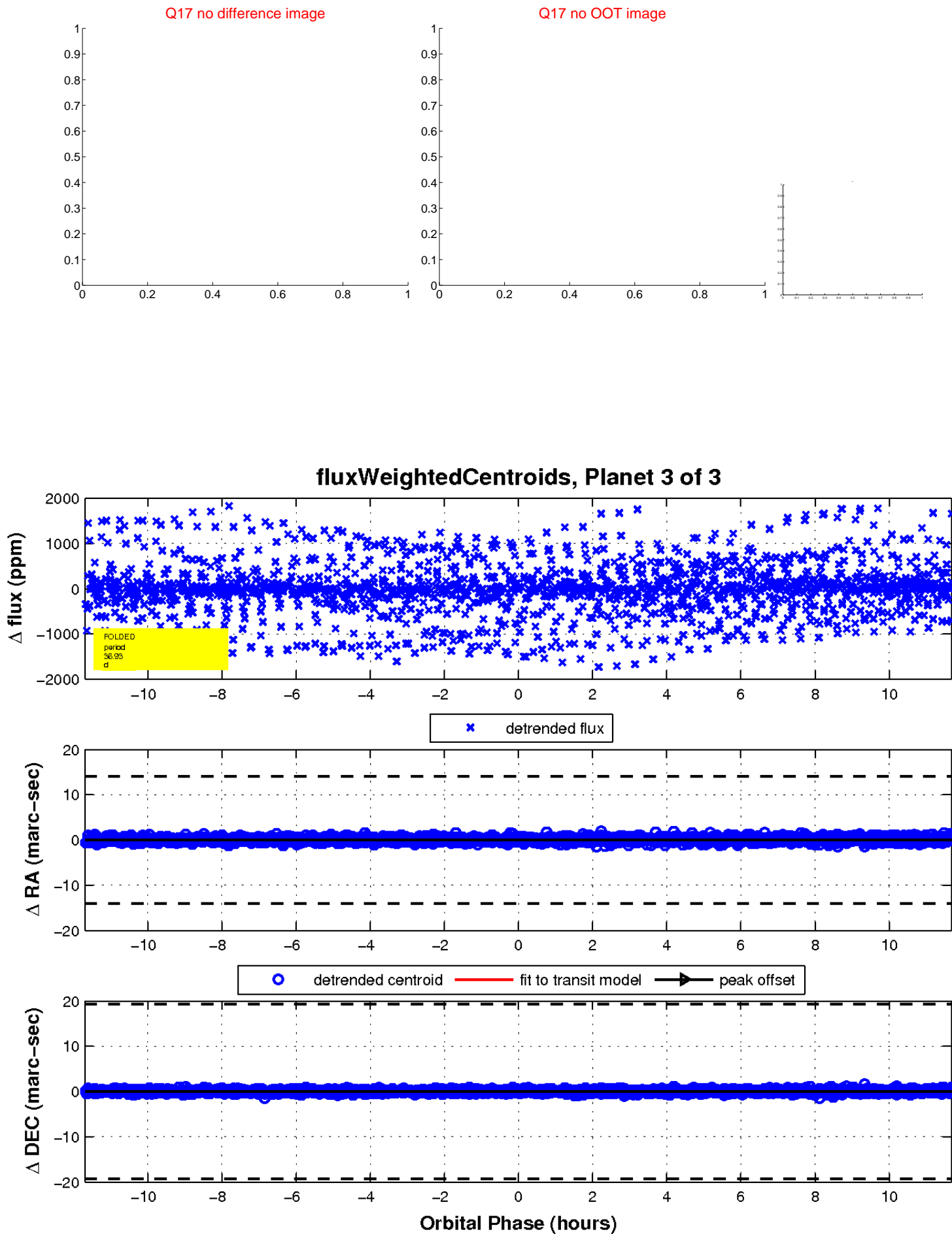
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

