

KIC 007198769

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})
007198769-01	OBS	No	0.566601	132.024093	7.9	2.155	11.5	1.2	0.77	5257	0.23	2512.92
007198769-02	OBS	No	0.566901	131.645626	59.2	2.454	11.3	7.8	0.77	5257	0.76	2511.15
007198769-03	OBS	No	35.425265	162.699701	664.3	1.513	8.2	7.4	0.77	5257	1.97	10.13

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007198769-01	OBS	FP	0.00	1	0	0	1	LPP_DV—LPP_ALT—CENT_FEW_DIFFS—EPHEM_MATCH
007198769-02	OBS	FP	0.00	1	0	1	1	SWEET_NTL—LPP_DV—LPP_ALT—CENT_FEW_DIFFS—HALO_GHOST—EPHEM_MATCH
007198769-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS

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.

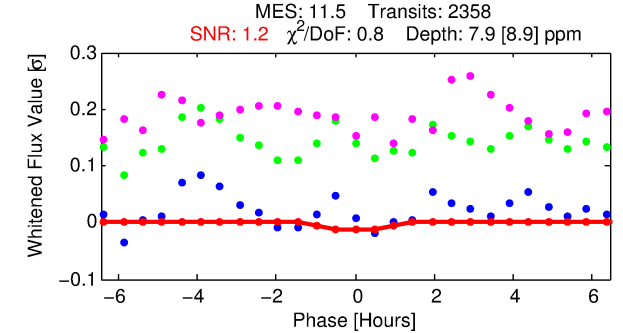
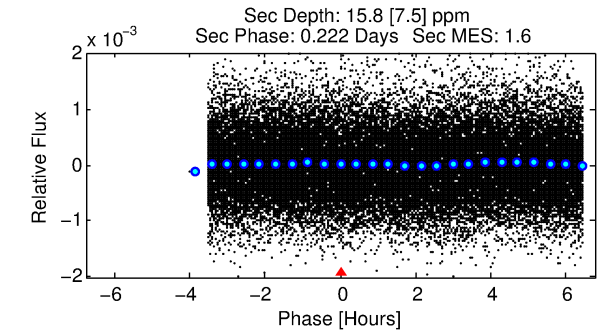
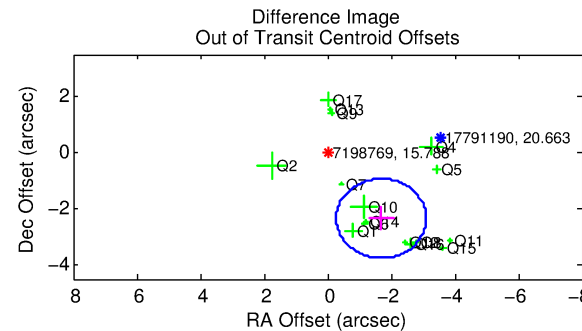
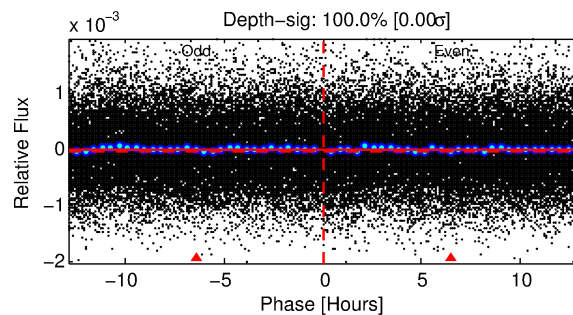
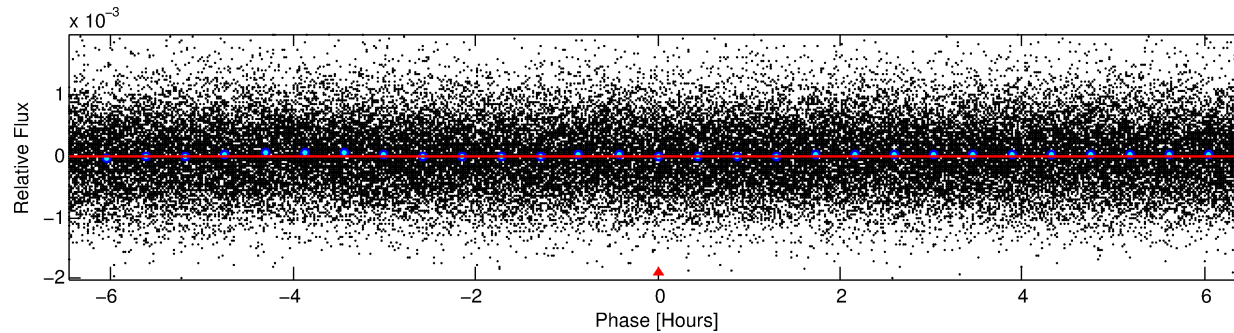
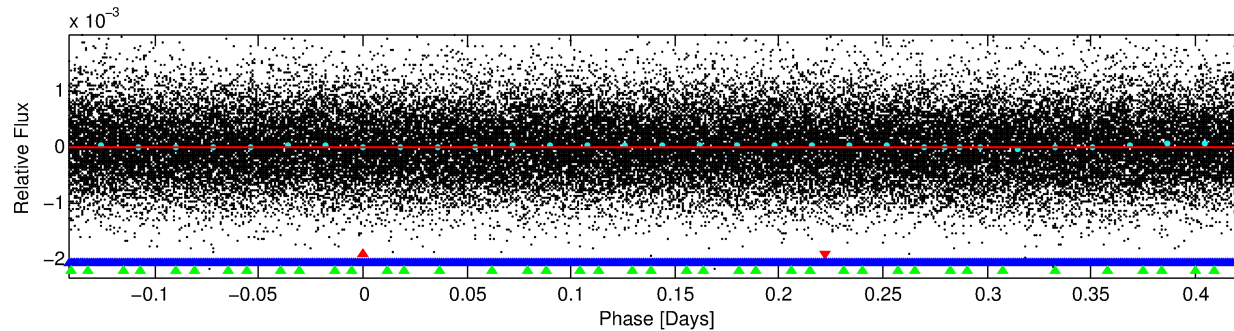
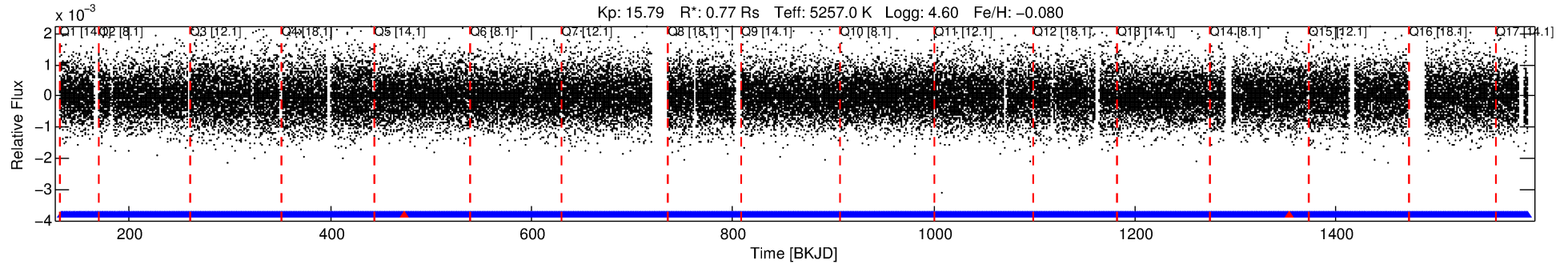
Ephemeris Match Information For 007198769-01

TCE (1)	KIC	Parent (2)	Parent KIC	$P_1:P_2$	Dist ($''$)	Δ Row	Δ Col	m_2	m_1	D_2/D_1	Mechanism	Flag	σ_P	σ_T
007198769-01	7198769	RR-Lyr-pri	7198959	1:1	184.7	9	-46	7.86	15.79	77912.00	Direct-PRF	0	2.71	7.68

Notes: $P_1:P_2$ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m_2 and m_1 are the magnitudes of the parent and child. D_2/D_1 is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

KIC: 7198769 Candidate: 1 of 3 Period: 0.567 d



DV Fit Results:

Period = 0.56660 [0.00008] d
Epoch = 132.0241 [0.0244] BKJD
Rp/R* = 0.0027 [0.0056]
a/R* = 1.69 [8.29]
b = 0.67 [6.16]
Seff = 2512.92 [511.75]
Teq = 1805 [92] K
Rp = 0.23 [0.47] Re
a = 0.0127 [0.0014] AU
Ag = 26.61 [109.33] [0.23σ]
Teffp = 6340 [6509] K [0.70σ]

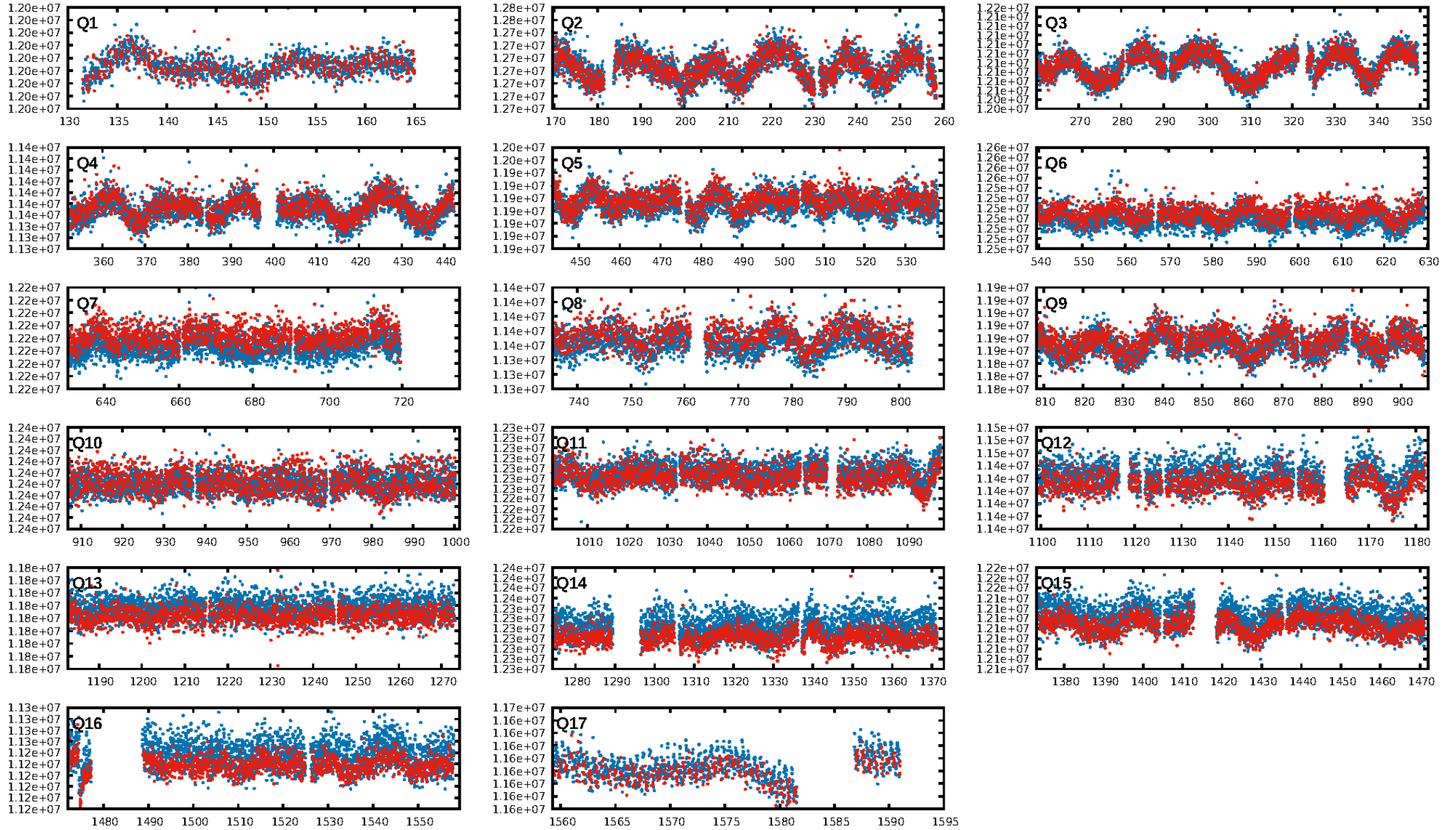
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.2% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 8.63e-27
RollingBand-fgt: 1.00 [2248/2250]
GhostDiagnostic-chr: -0.4168
Centroid-sig: N/A
Centroid-so: 26.950 arcsec [2.21σ]
OotOffset-rm: 2.891 arcsec [6.13σ]
KicOffset-rm: 2.881 arcsec [5.53σ]
OotOffset-st: 4/3/4/5 [16]
KicOffset-st: 4/3/4/5 [16]
DiffImageQuality-fgm: 0.06 [1/16]
DiffImageOverlap-fno: 0.00 [0/17]

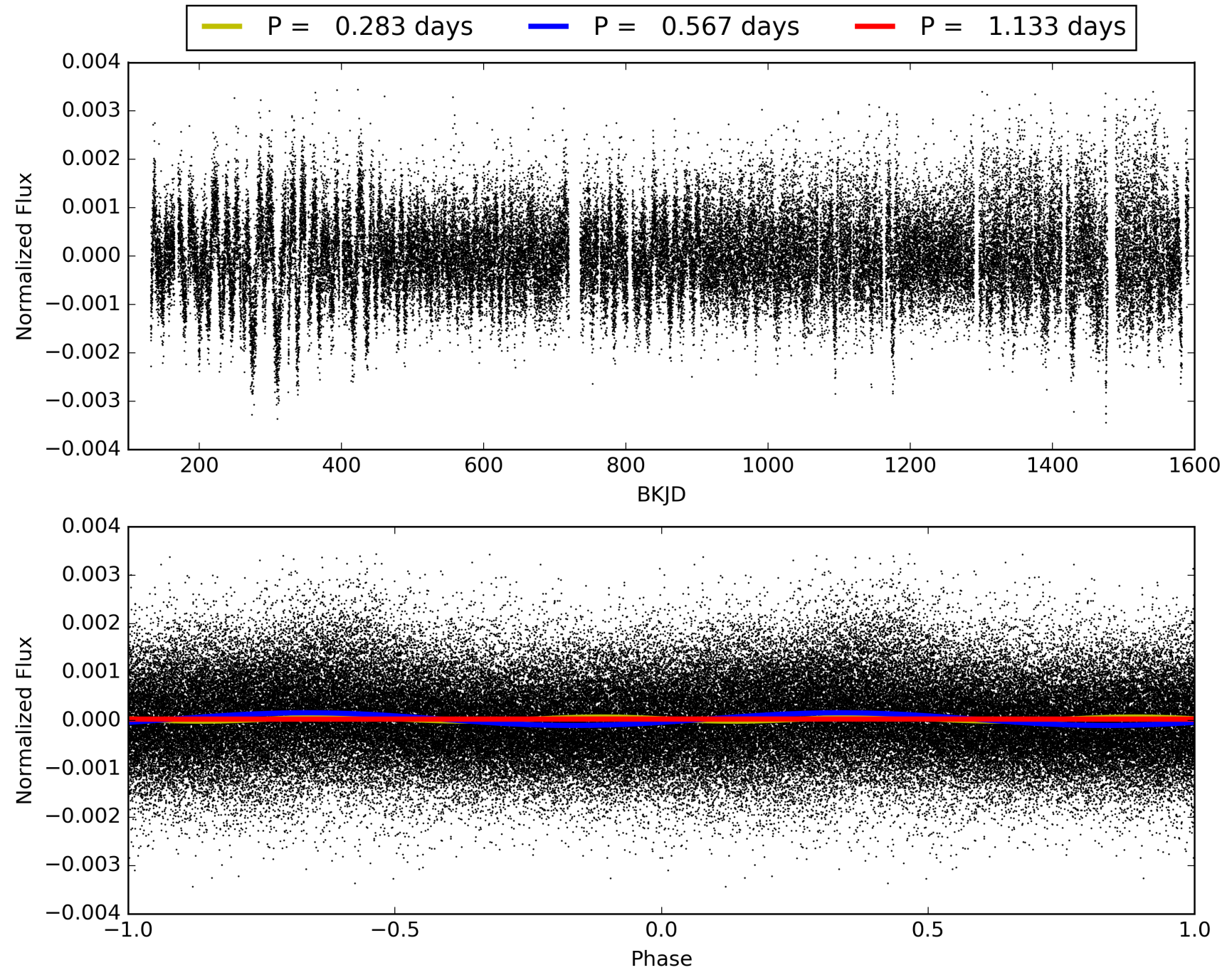
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:17:22 Z

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

TCE 007198769-01, PDC Light Curves

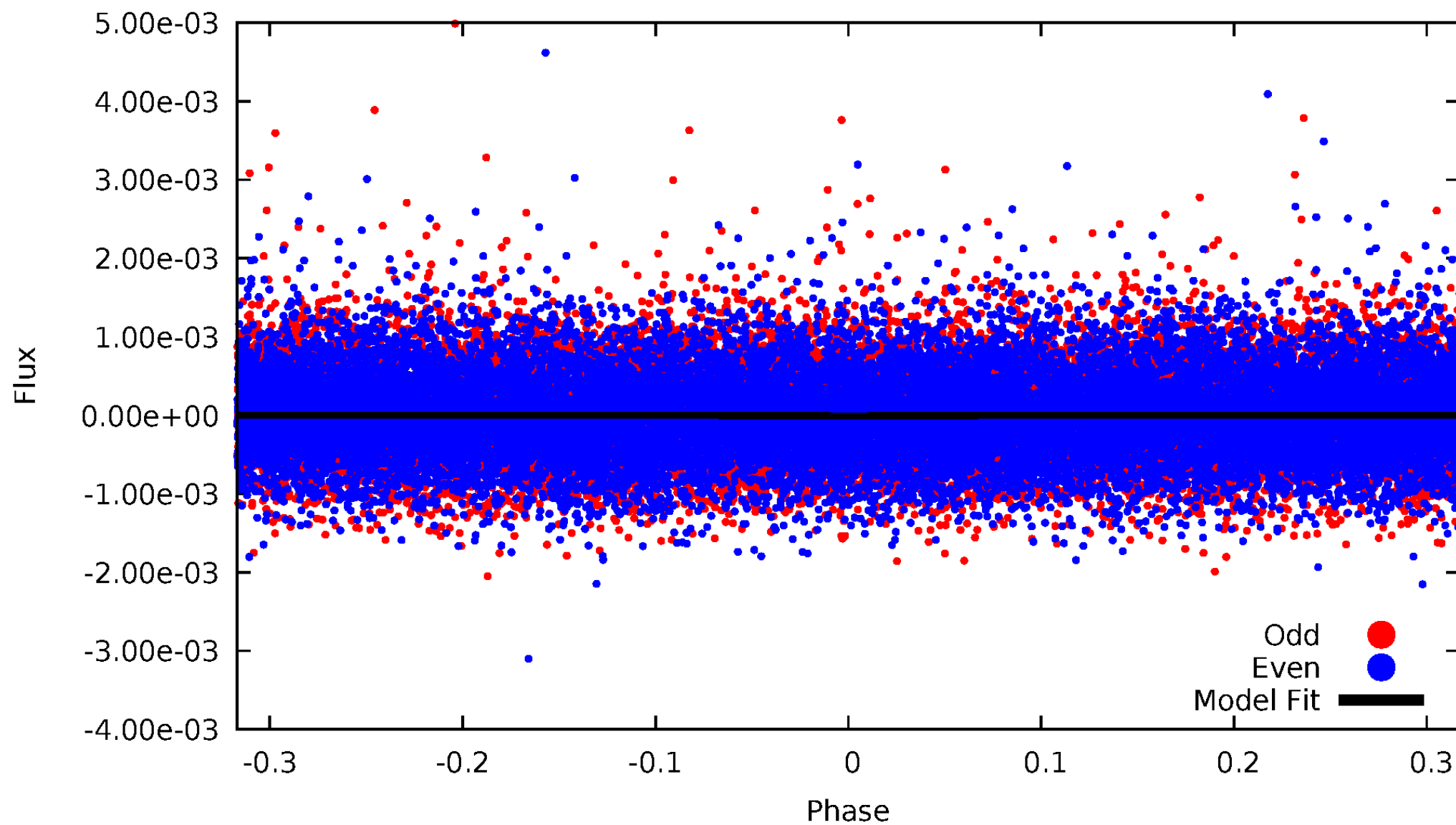


TCE 007198769-01



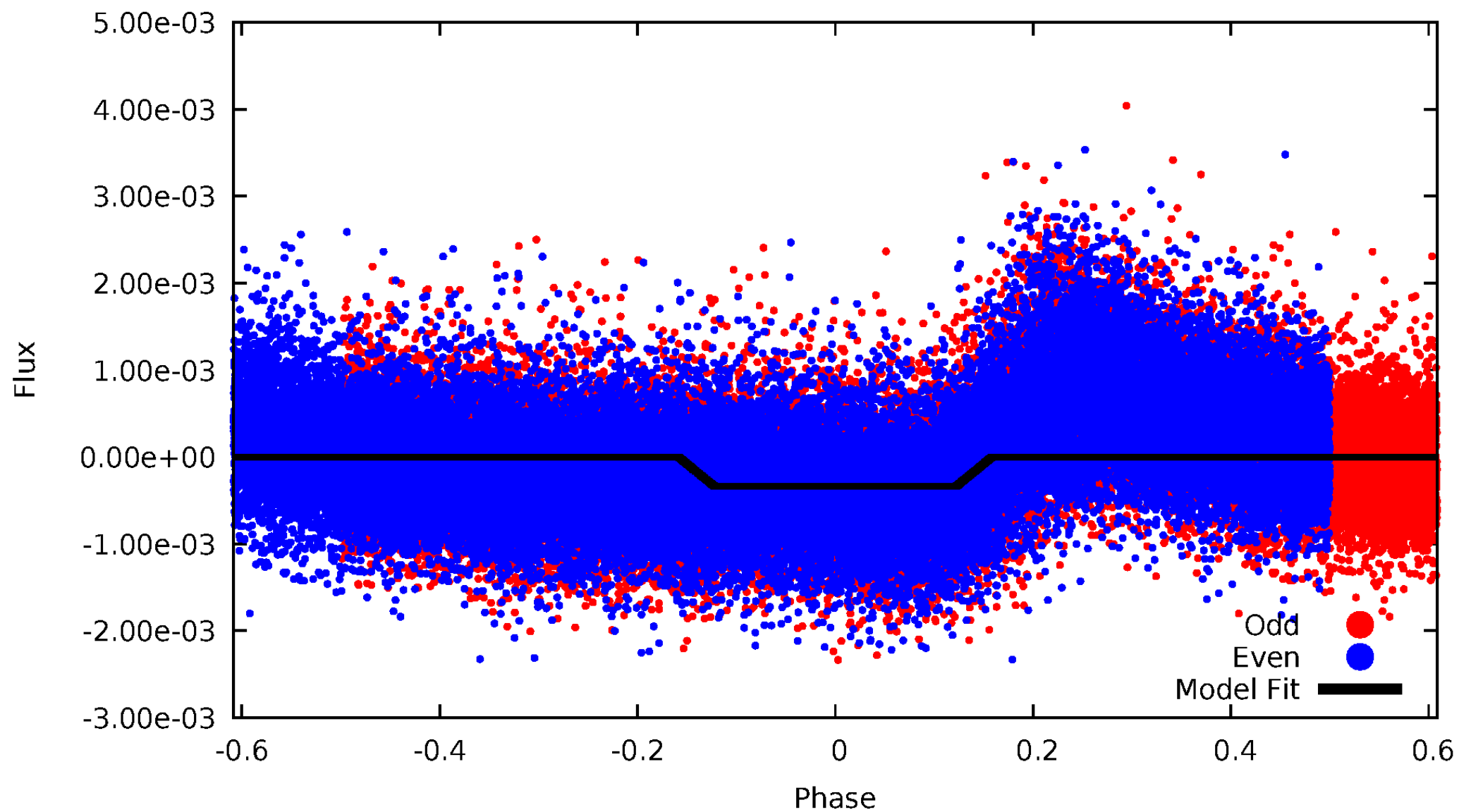
DV Odd/Even

TCE 007198769-01



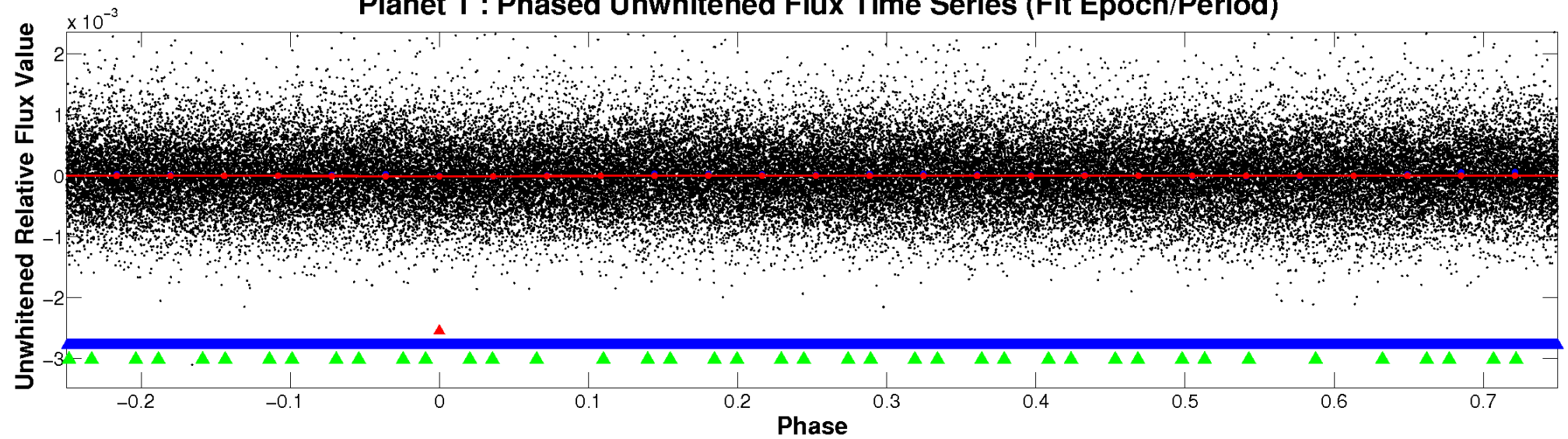
ALT Odd/Even

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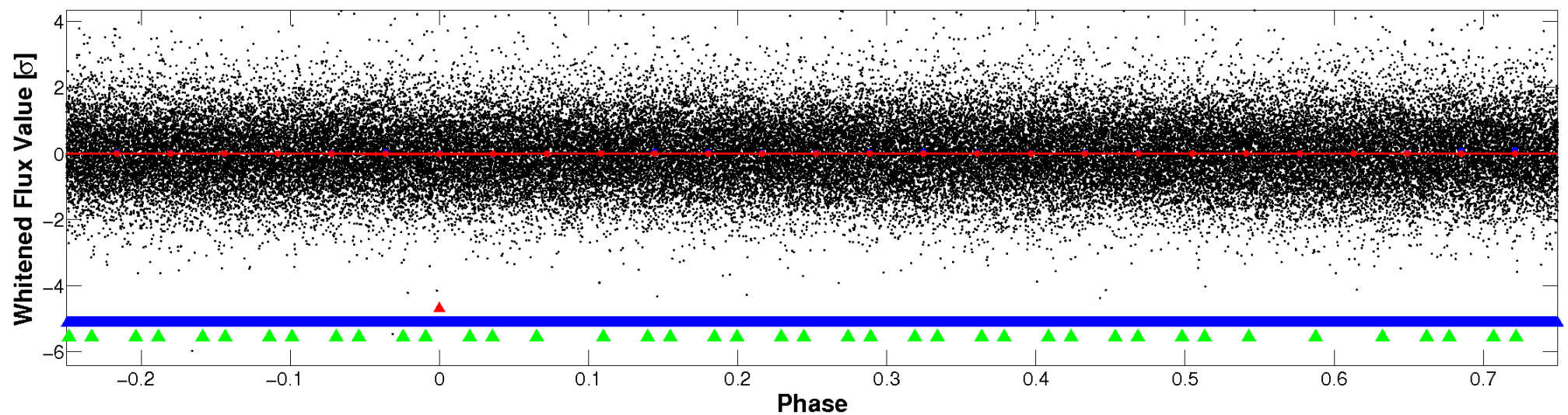


Non-Whitened Vs. Whitened Light Curve

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

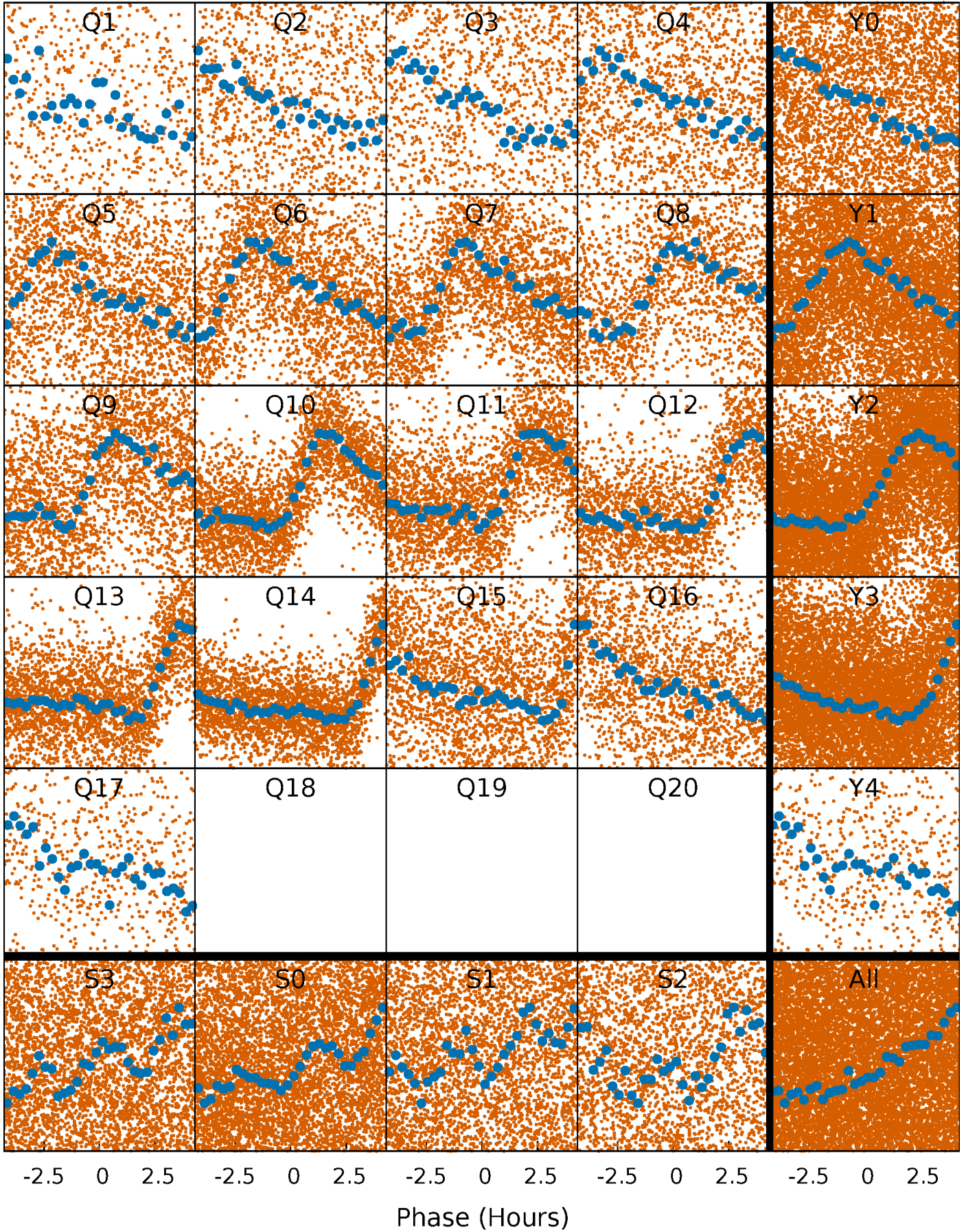


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



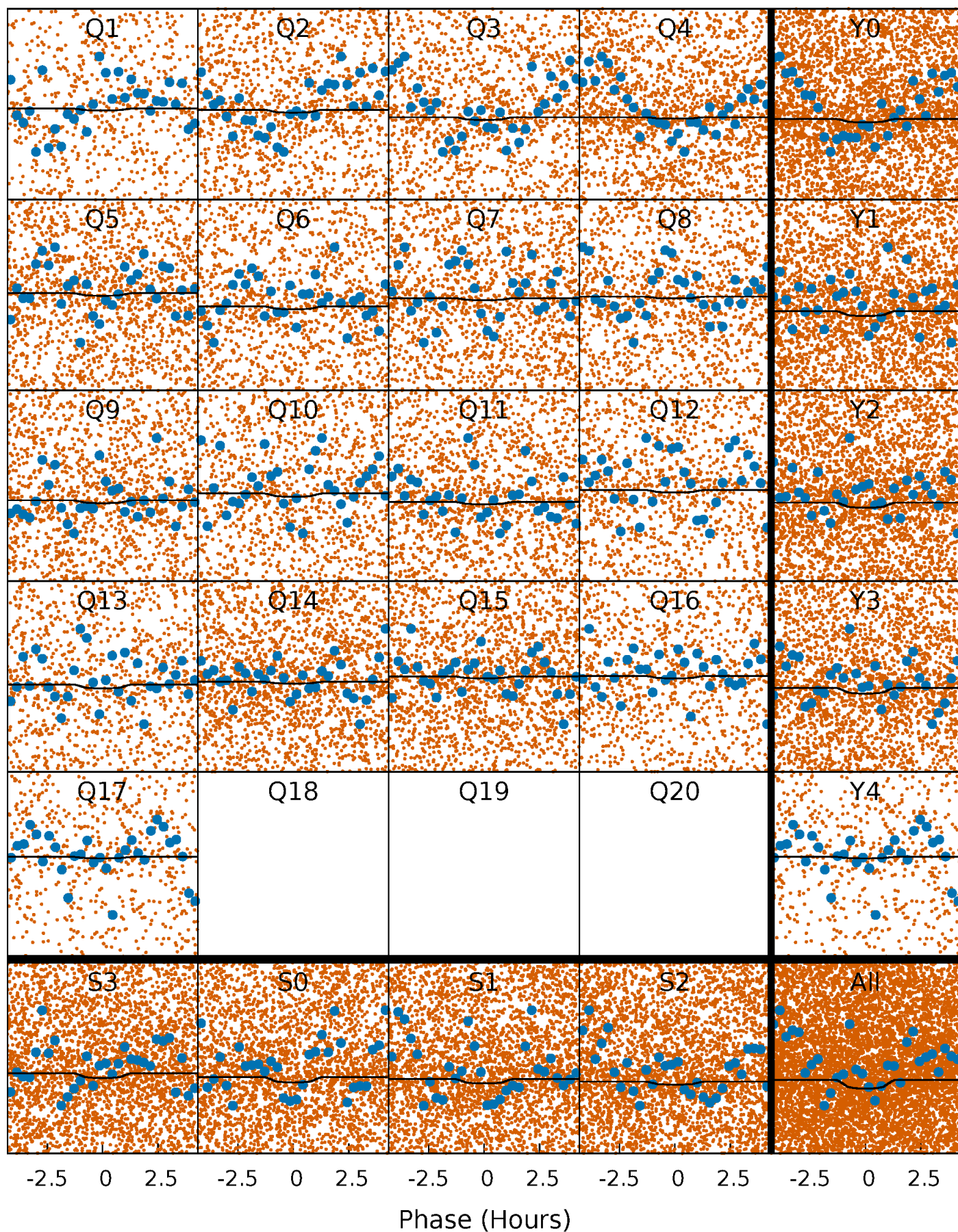
PDC Quarter-Phased Transit Curves

TCE 007198769-01 P= 0.566601 Days $T_0=132.024093$ (BKJD)



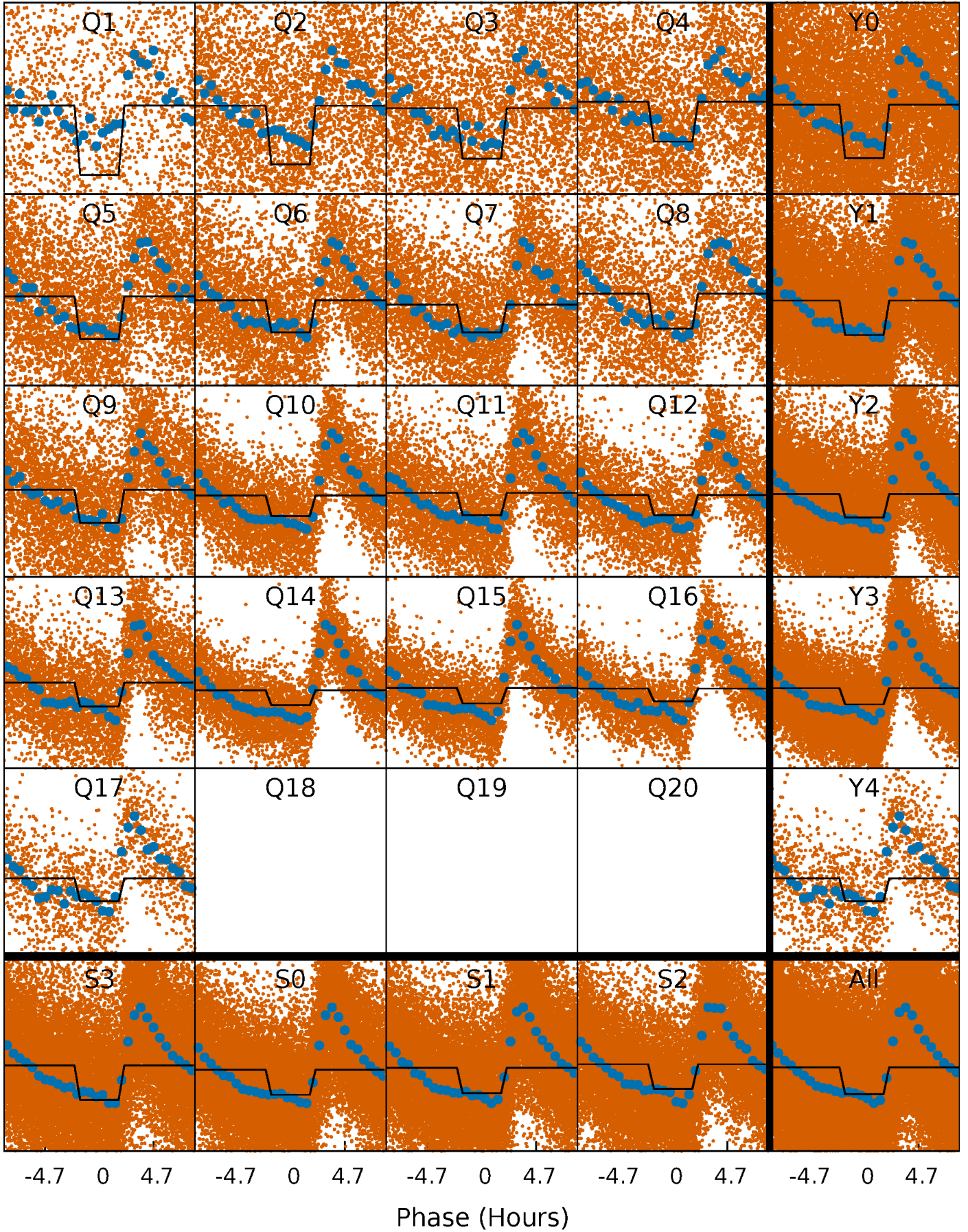
DV Quarter-Phased Transit Curves

TCE 007198769-01 P= 0.566601 Days $T_0=132.024093$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

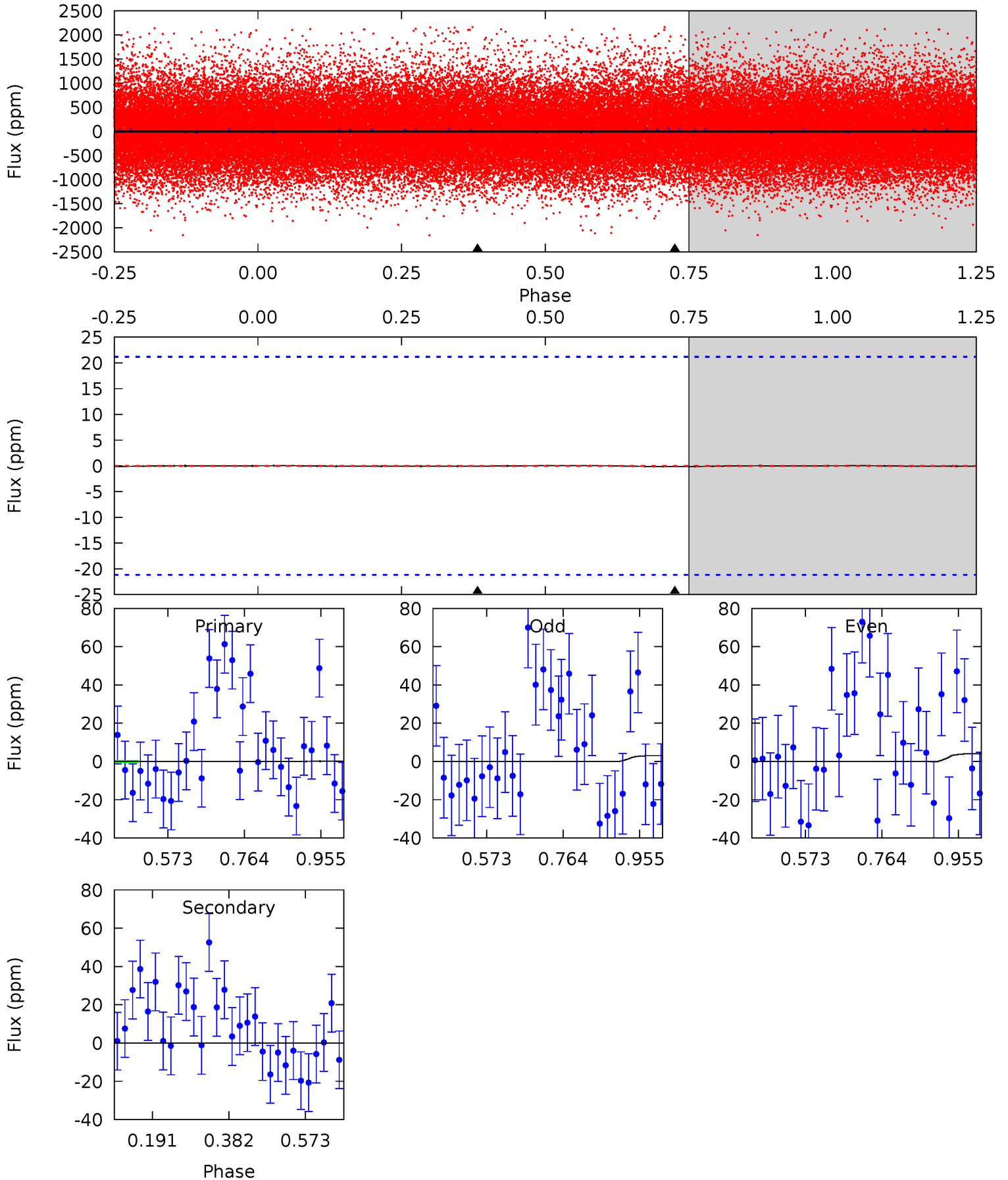
TCE 007198769-01 P= 0.566813 Days $T_0=131.632402$ (BKJD)



DV Model-Shift Uniqueness Test

007198769-01, P = 0.566601 Days, E = 131.457492 Days

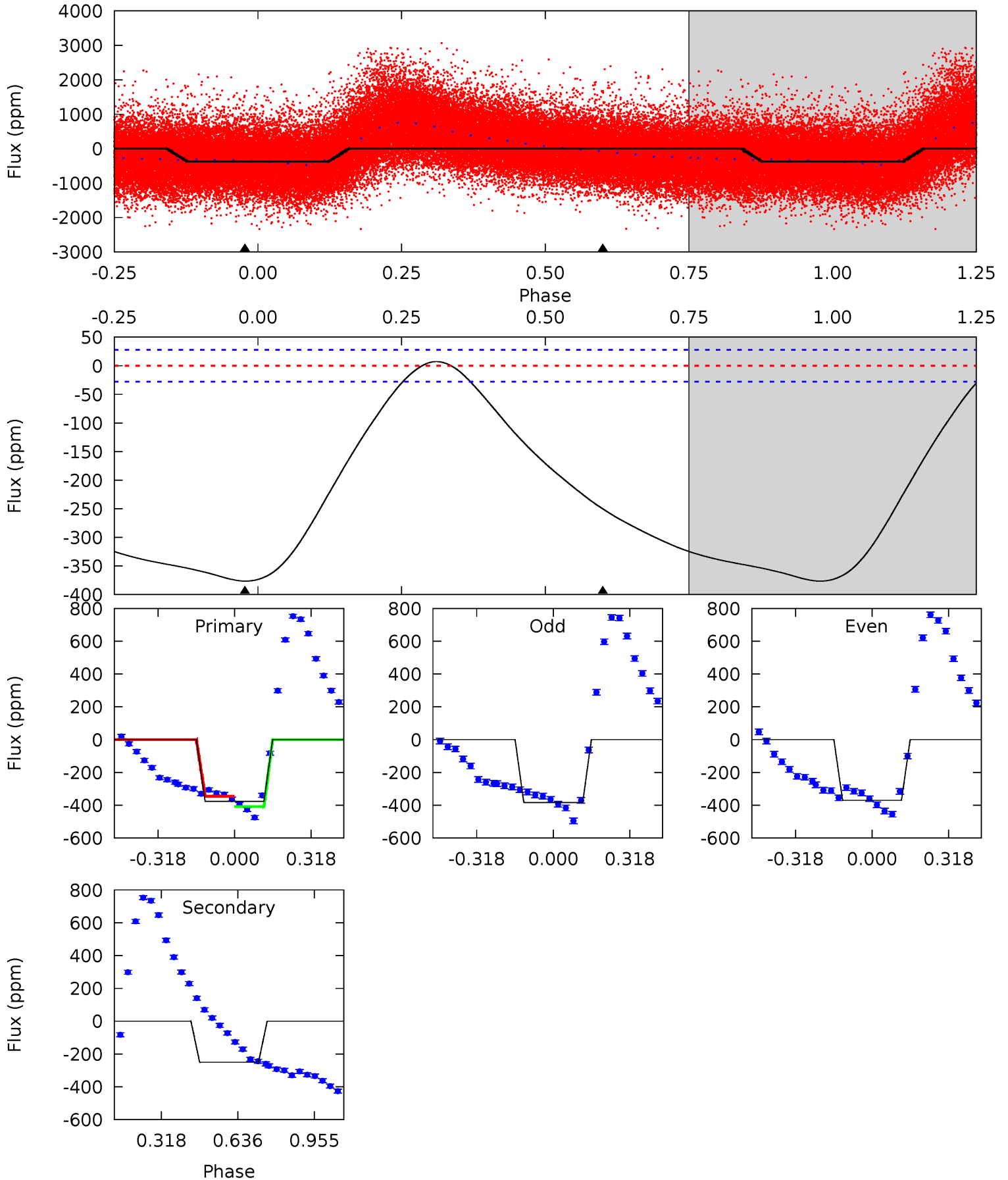
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.03	0.01	0	0	4.43	1.31	0.01	0.03	0.03	0.01	0.01	0.11	-9.62	0.28	0.09



Alt Model-Shift Uniqueness Test

007198769-01, P = 0.566813 Days, E = 131.065589 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
58.7	39.0	0	0	4.32	1.00	2.32	58.7	58.7	39.0	39.0	1.06	0.99	0.02	5.49



Stellar Parameters For KIC 007198769

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5257^{+142}_{-158}	$4.596^{+0.030}_{-0.090}$	$-0.080^{+0.300}_{-0.300}$	$0.771^{+0.103}_{-0.069}$	$0.865^{+0.060}_{-0.103}$	$2.657^{+0.440}_{-0.800}$
	+3%/-3%	+1%/-2%	+375%/-375%	+13%/-9%	+7%/-12%	+17%/-30%
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 007198769-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-0 ± 5	$0.45^{+0.40}_{-0.31}$	2554^{+97}_{-91}	-2796^{+6953}_{-1456}	$0.019^{+4.014}_{-3.629}$
Alt.	-250 ± 6	$1.59^{+0.50}_{-0.49}$	2556^{+99}_{-96}	4876^{+910}_{-532}	$8.715^{+9.890}_{-3.625}$

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

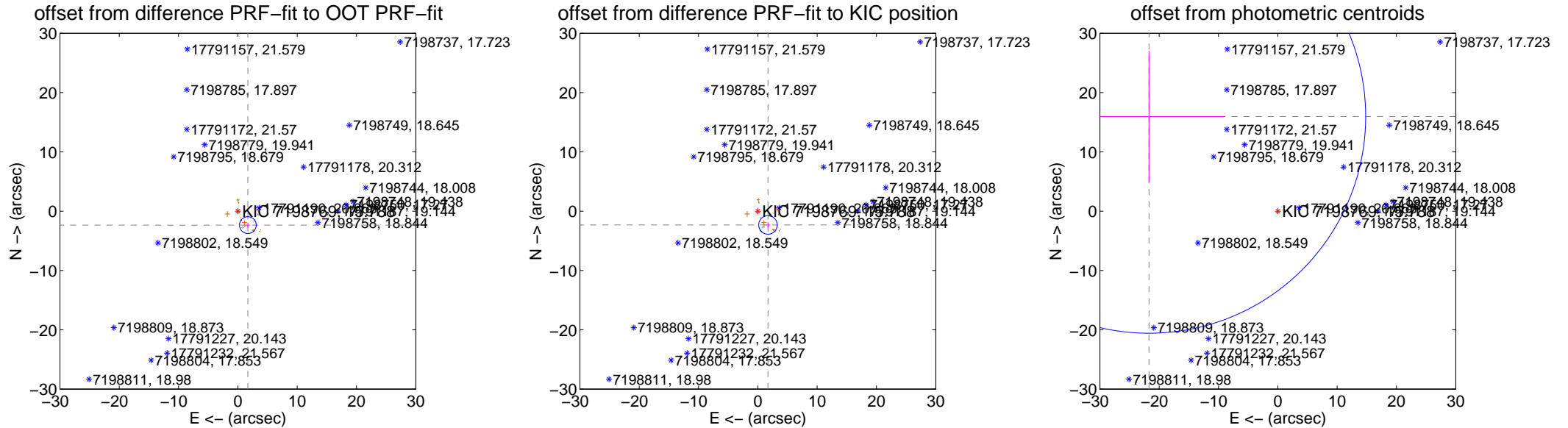
DV Centroid Data

Supplemental centroid analysis for 007198769-01. Kepler magnitude: 15.79. Transit SNR 1.18

There are 1 quarters with good PRF difference image offsets

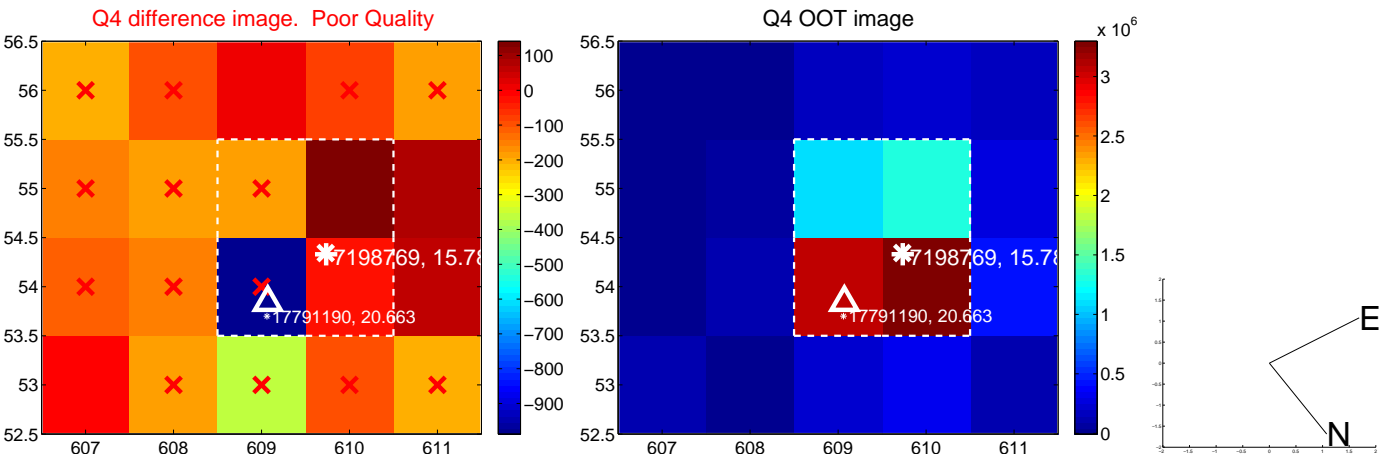
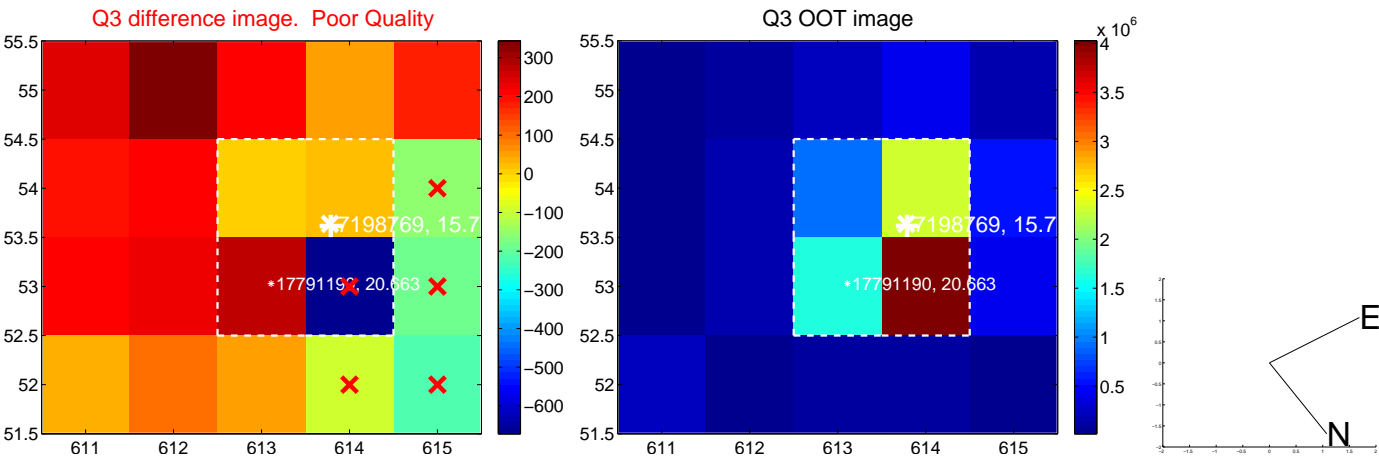
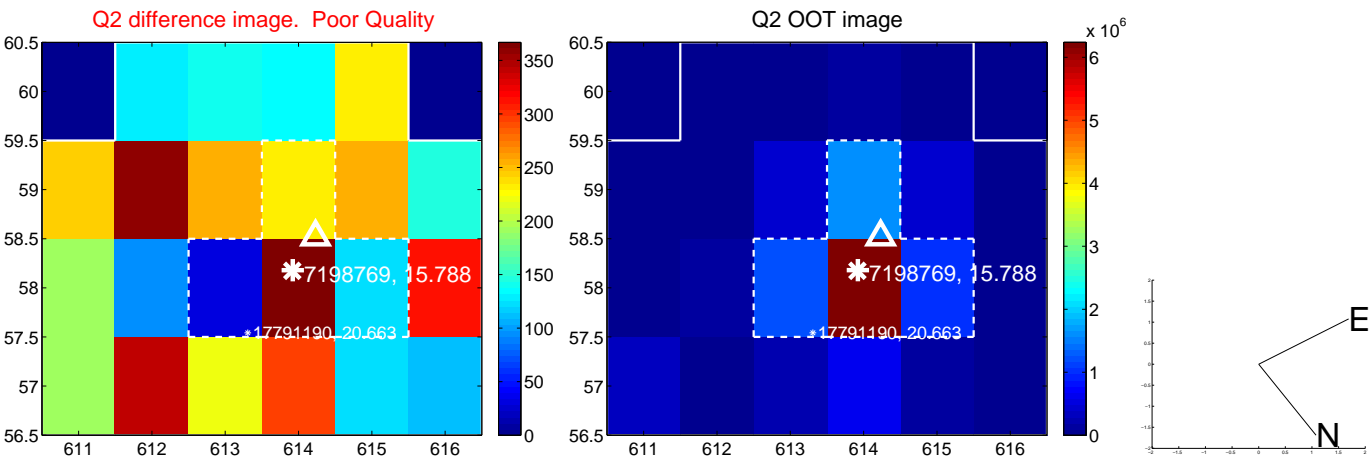
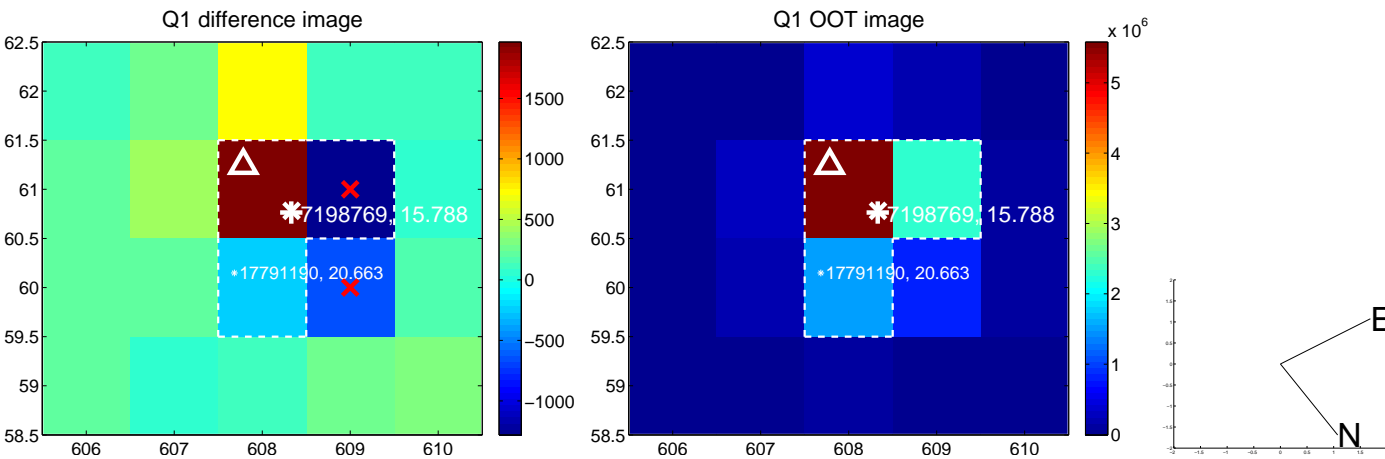
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.891 ± 0.471	6.13	-1.687 ± 0.380	-2.348 ± 0.416
PRF-fit source offset from KIC position	2.881 ± 0.521	5.53	-1.709 ± 0.404	-2.319 ± 0.458
photometric centroid source offset	26.95 ± 12.18	2.21	21.72 ± 12.73	15.95 ± 11.07

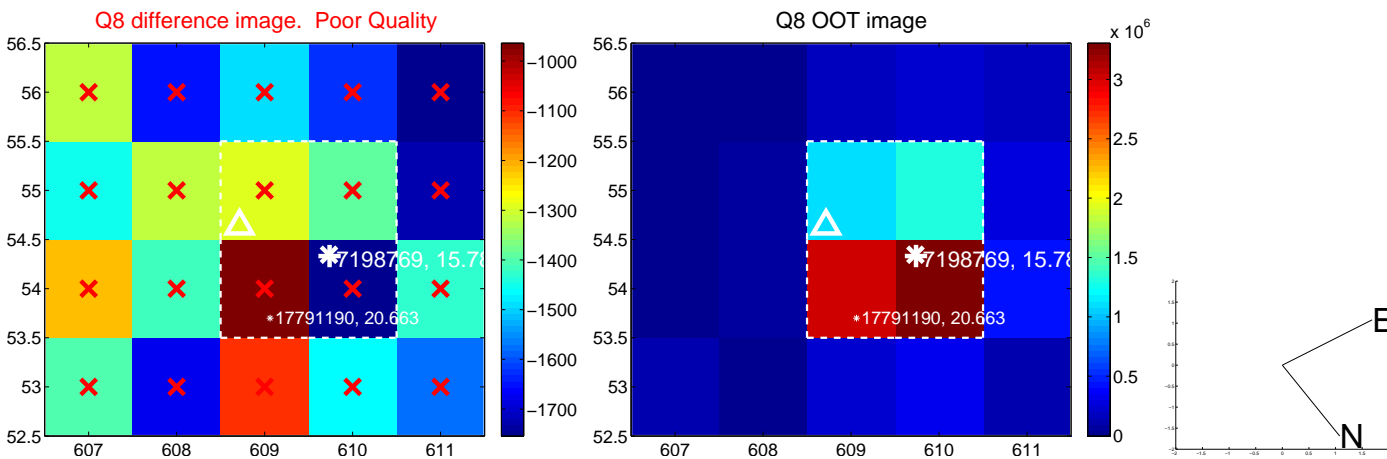
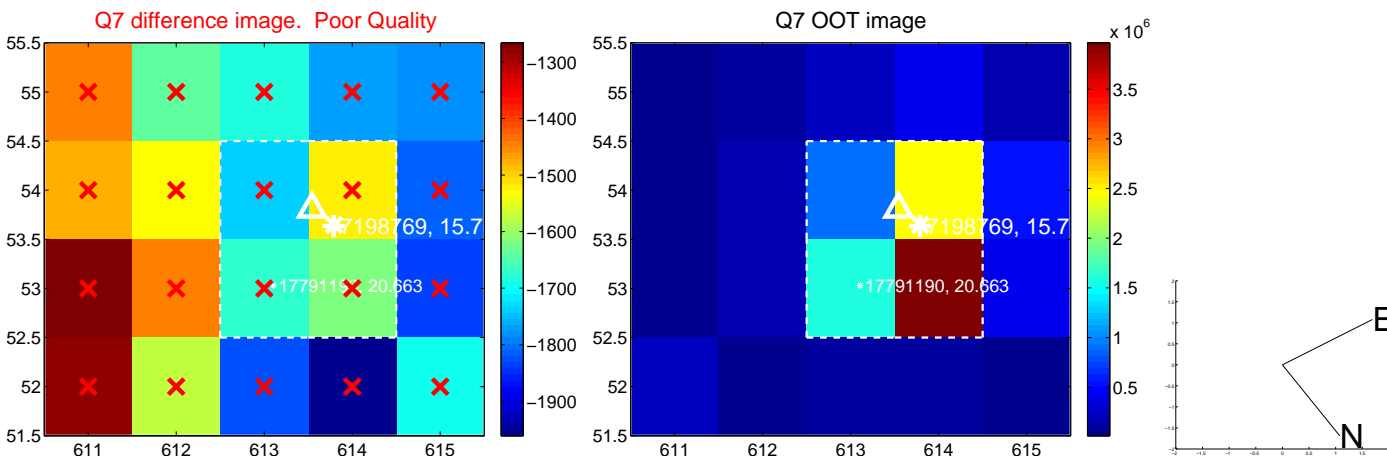
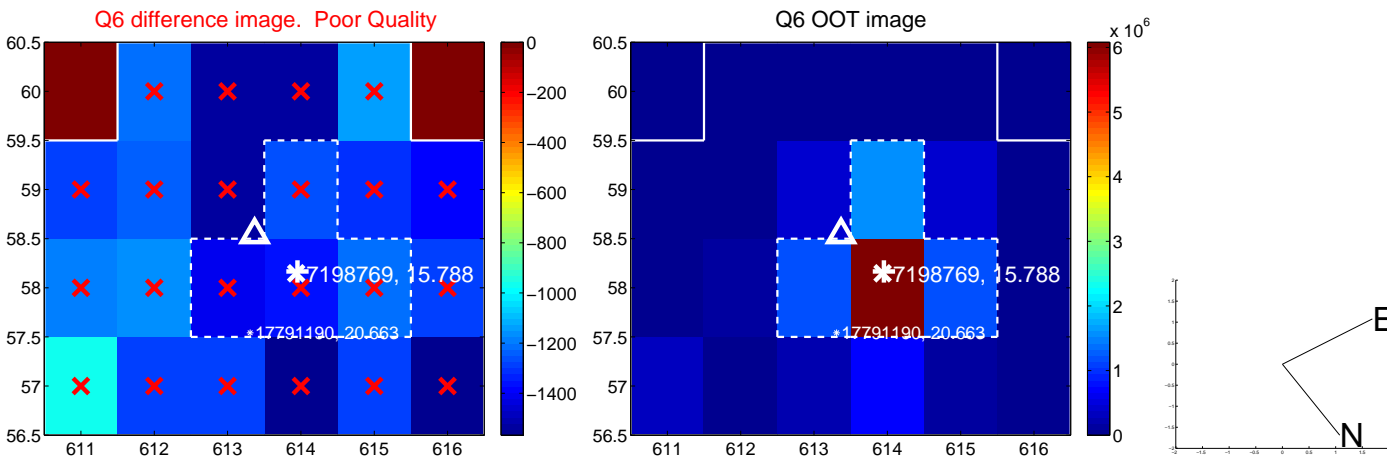
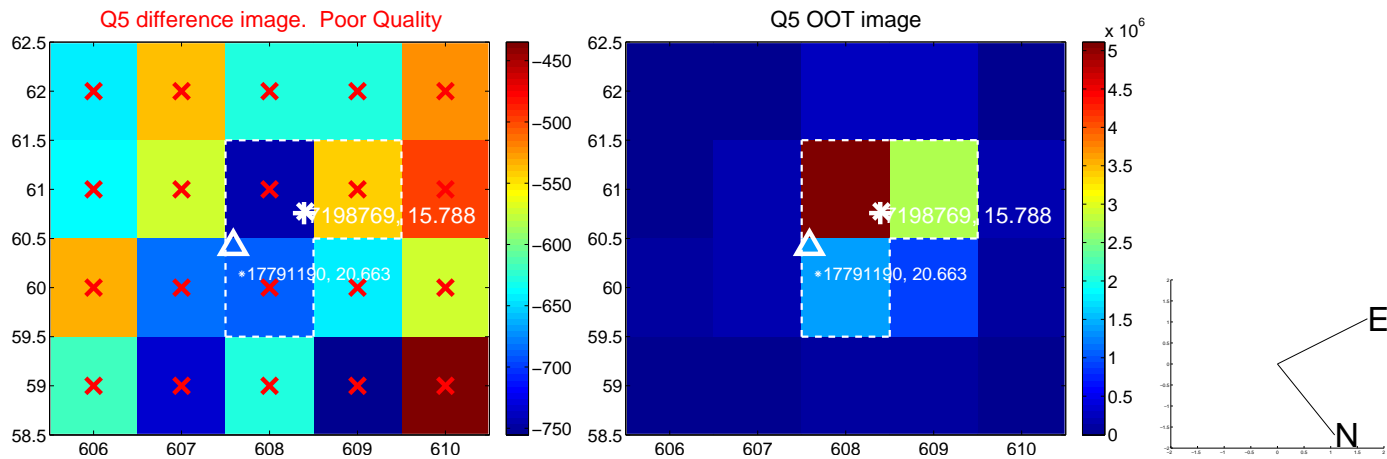


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

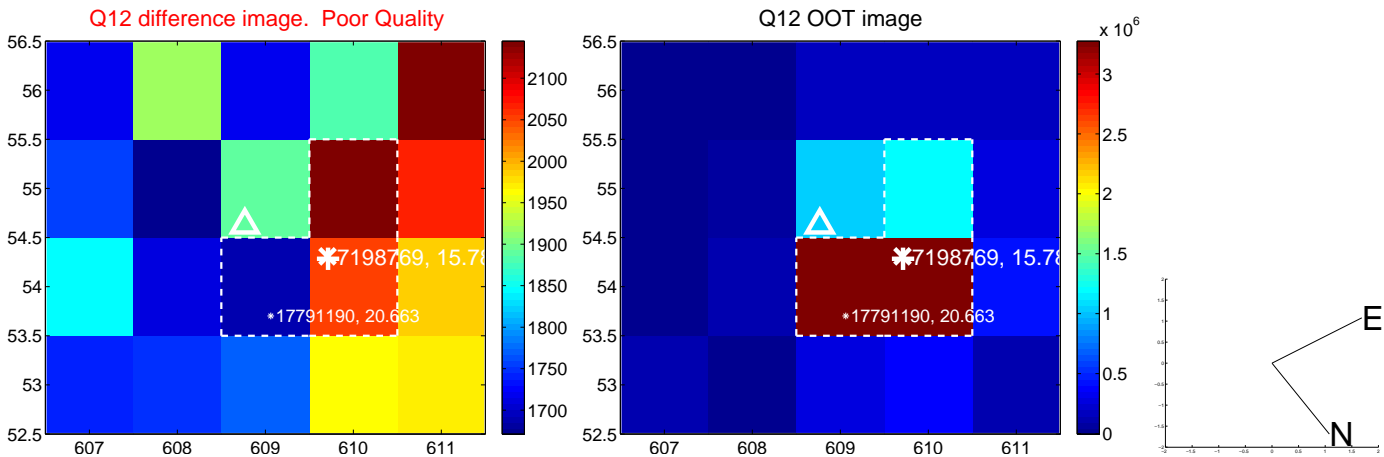
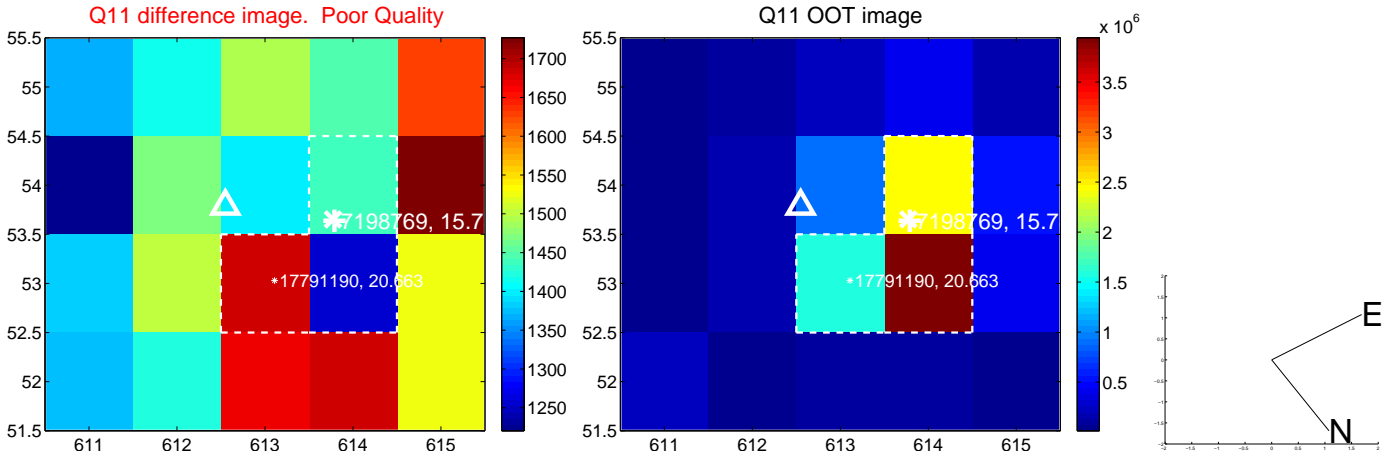
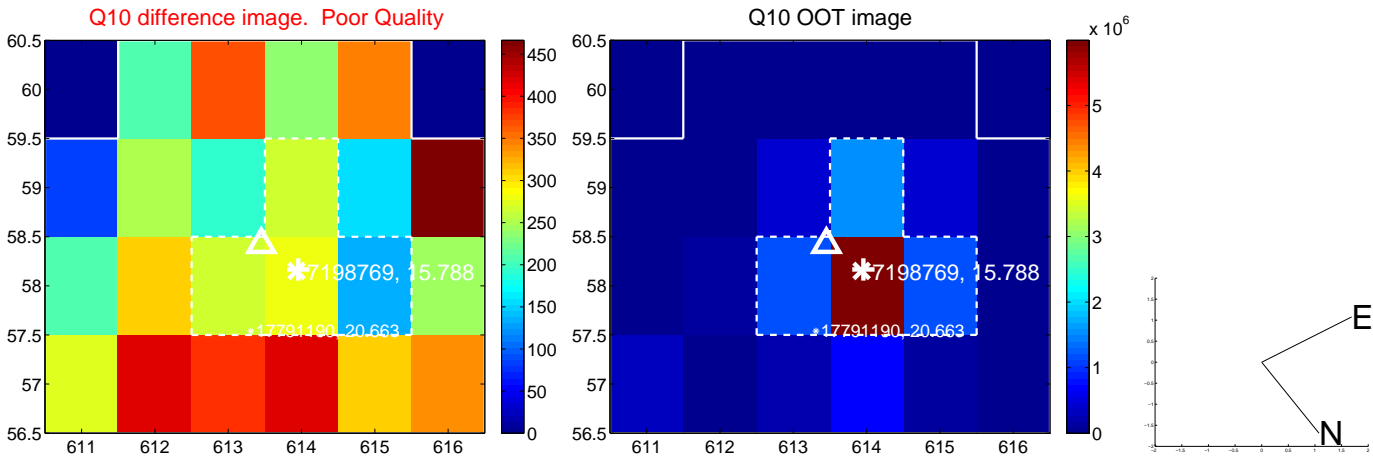
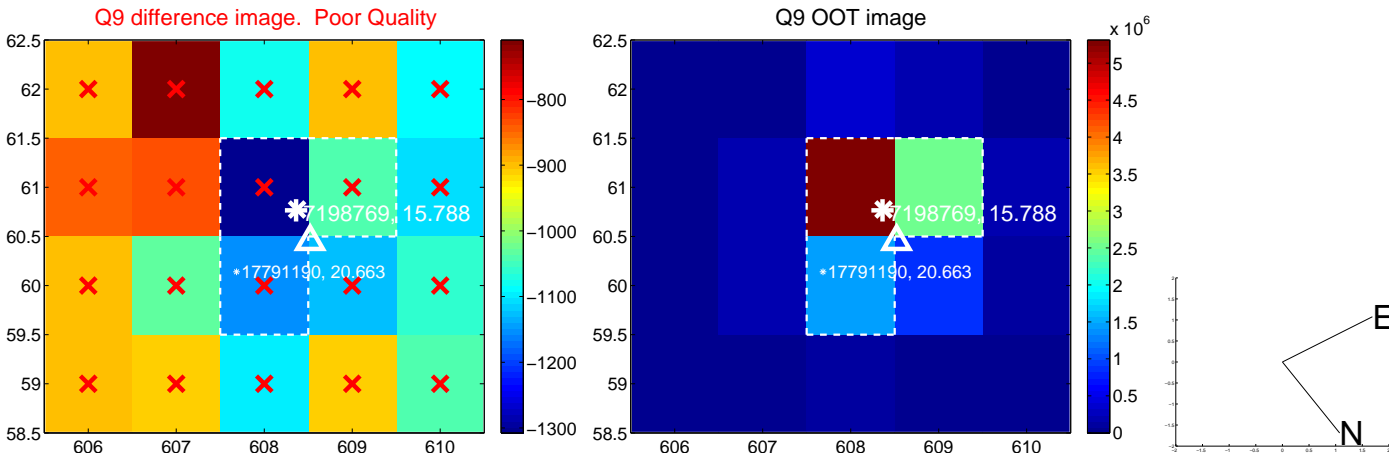
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



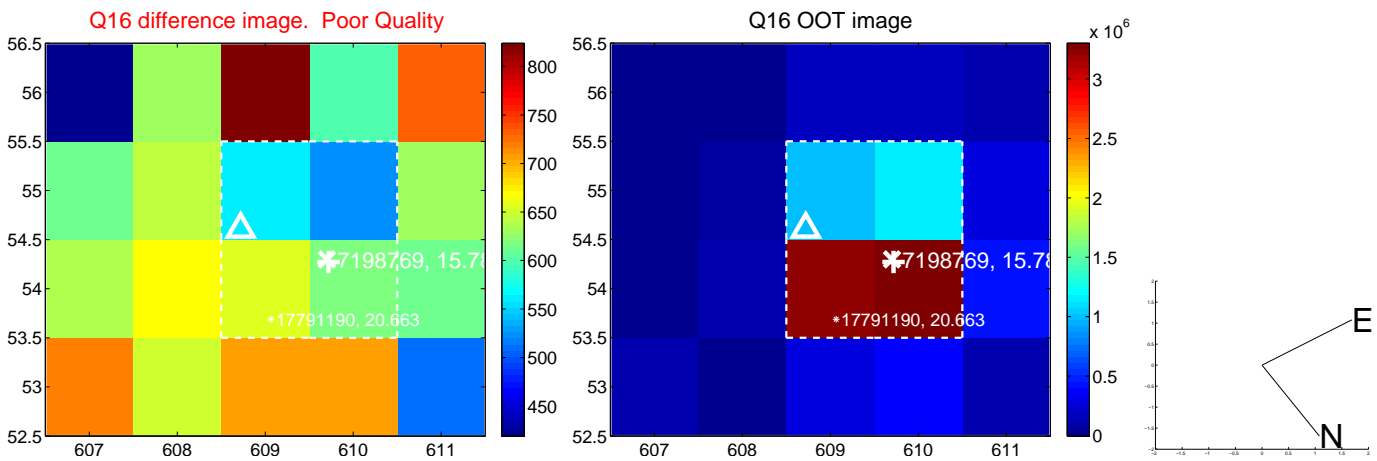
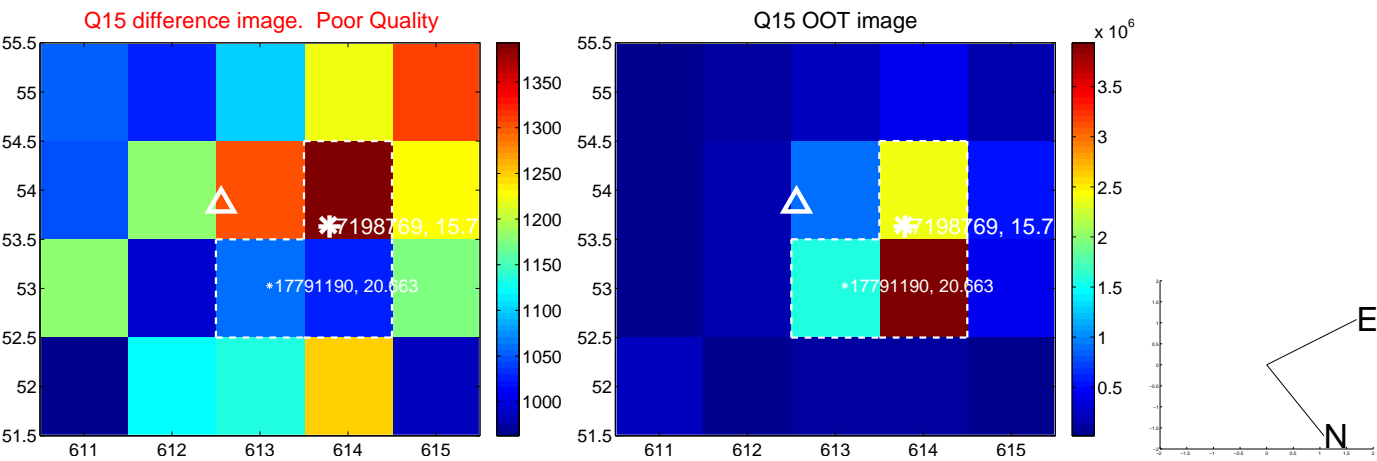
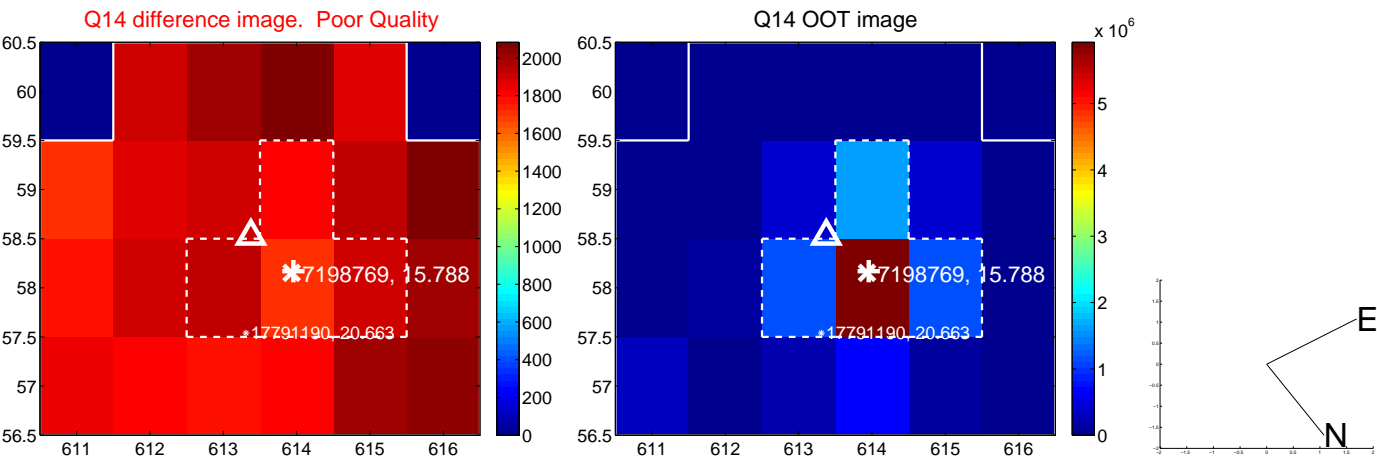
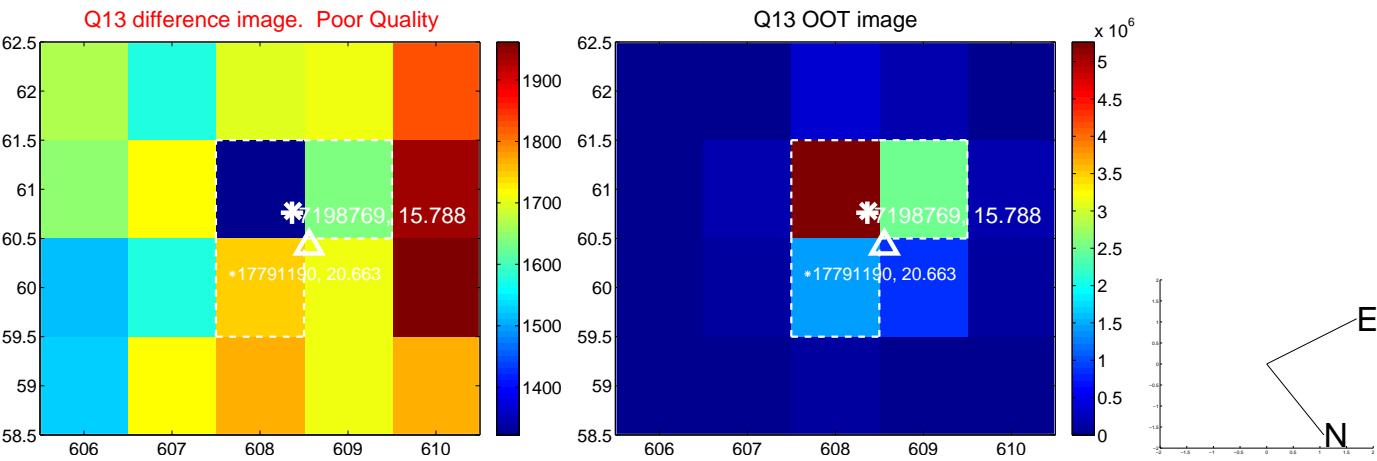
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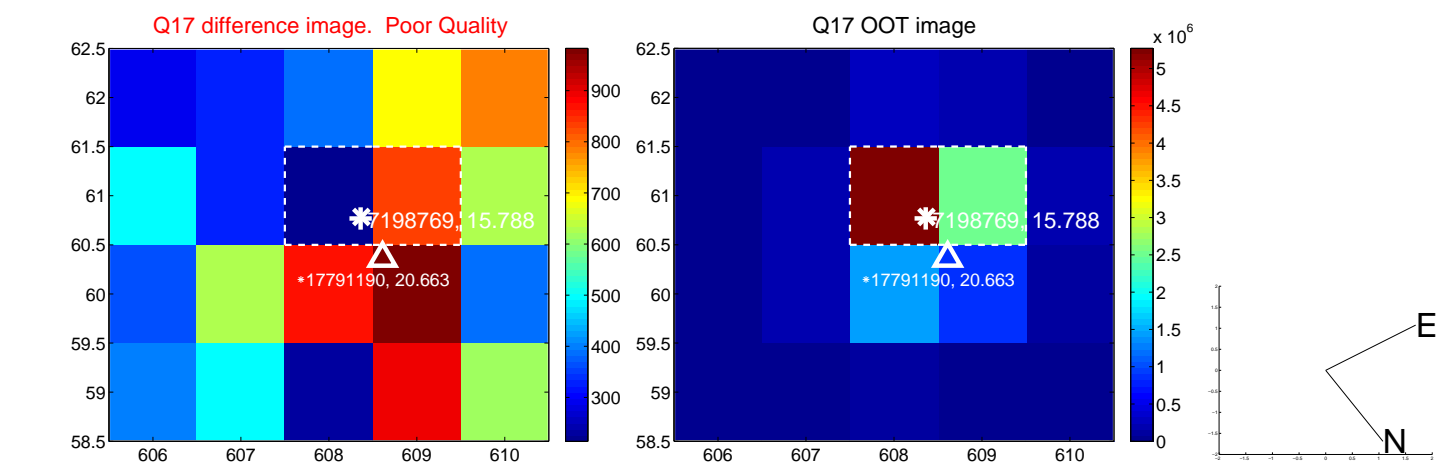
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



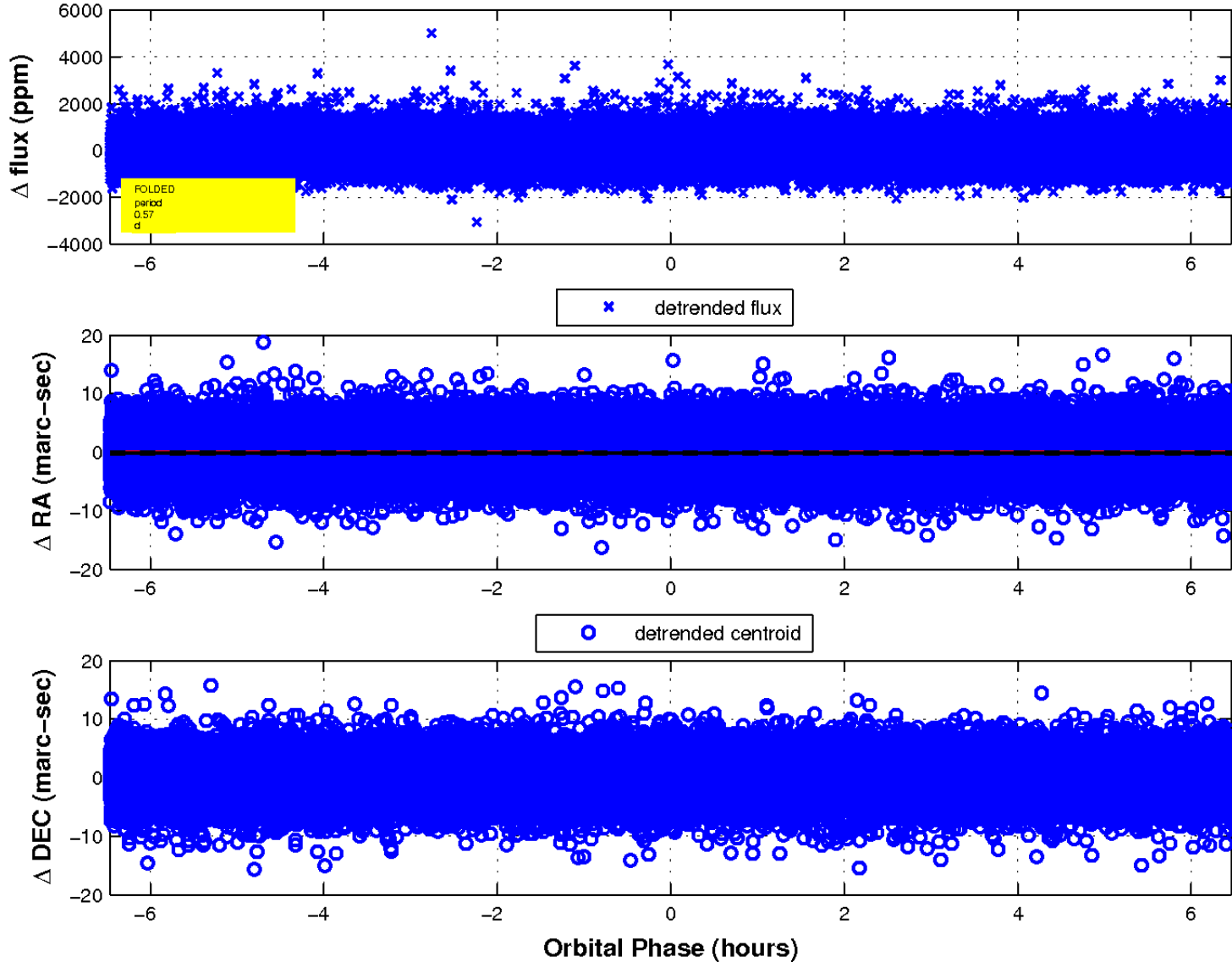
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

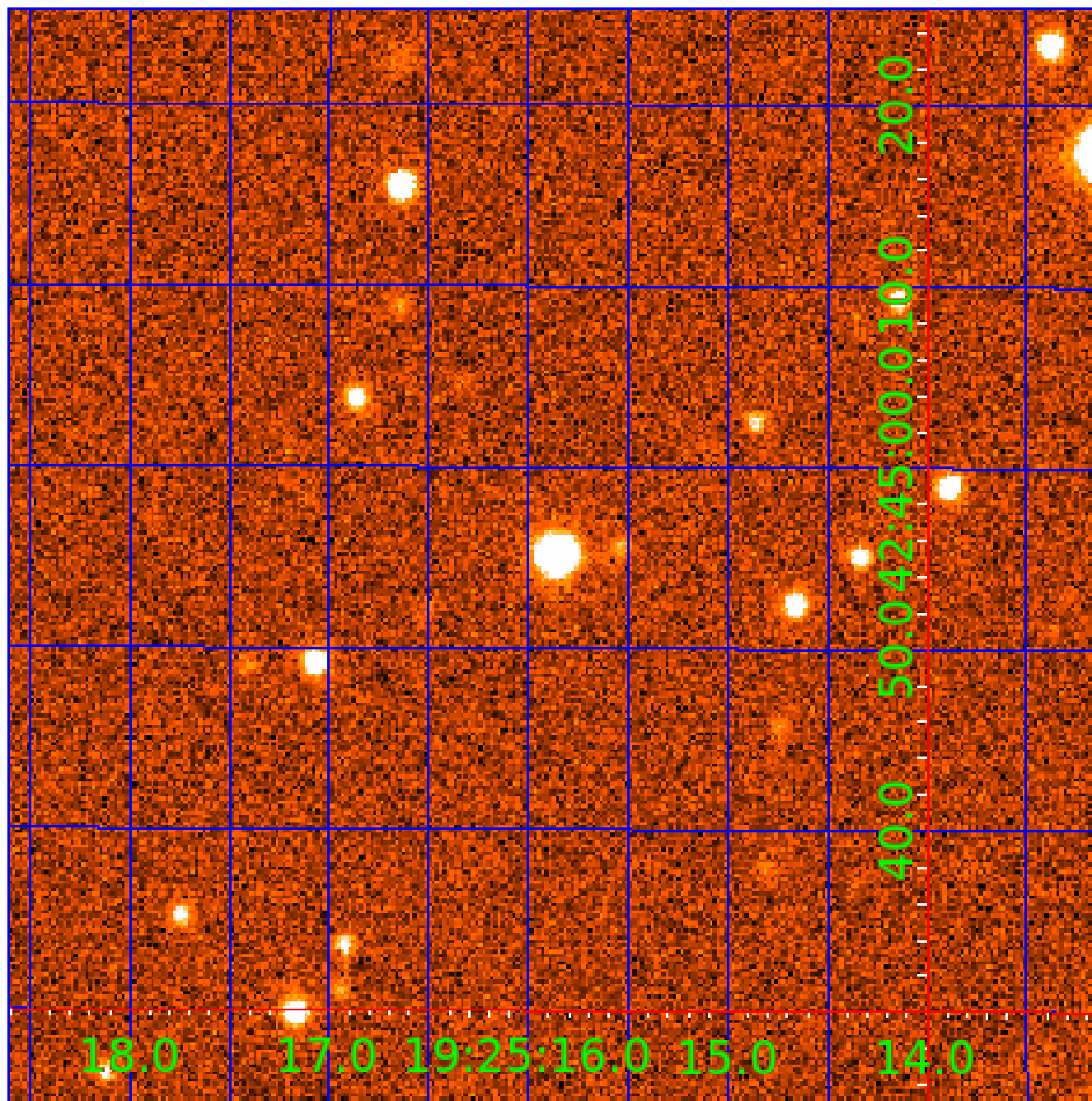


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 007198769

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
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007198769-02	OBS	FP	0.00	1	0	1	1	SWEET_NTL—LPP_DV—LPP_ALT—CENT_FEW_DIFFS—HALO_GHOST—EPHEM_MATCH
007198769-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS

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.

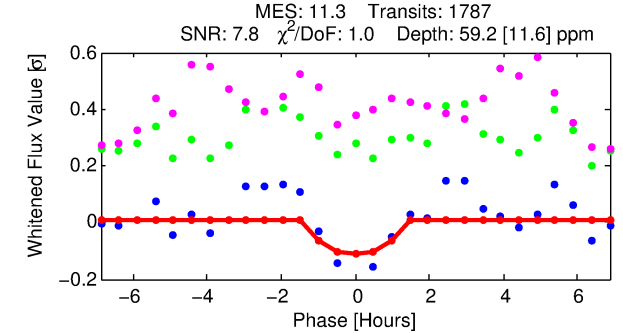
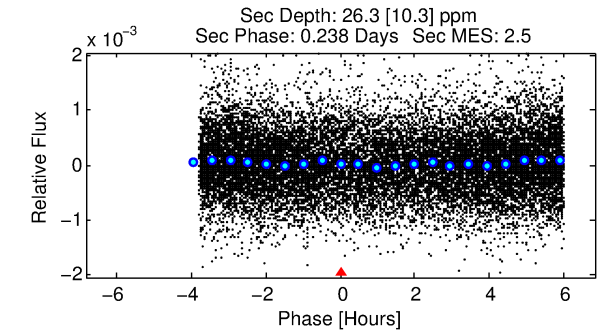
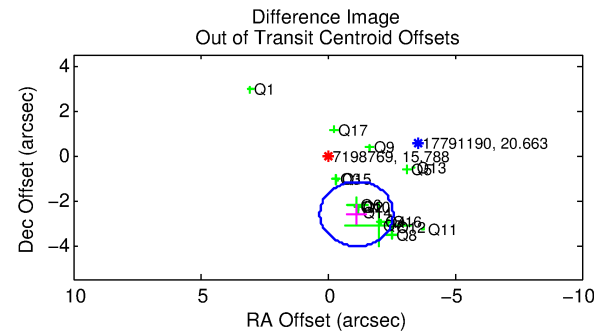
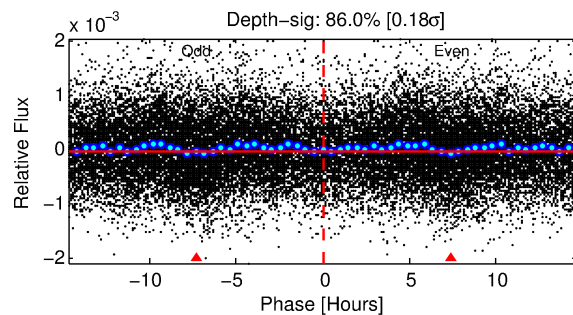
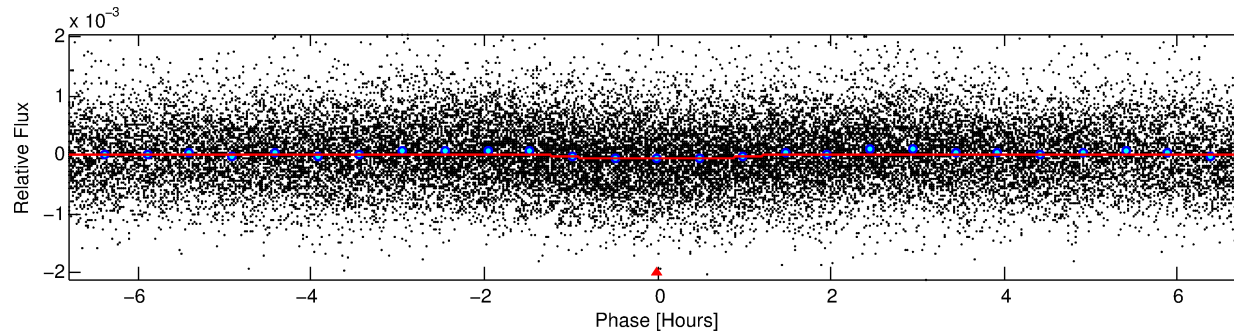
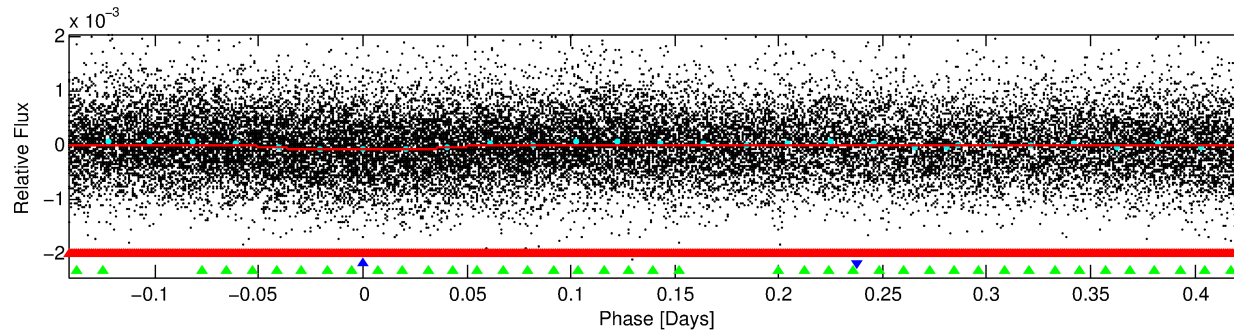
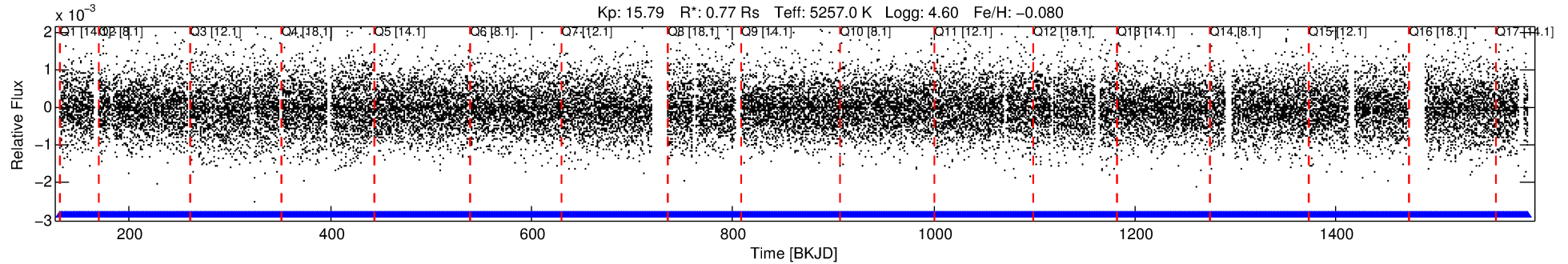
Ephemeris Match Information For 007198769-02

TCE (1)	KIC	Parent (2)	Parent KIC	$P_1:P_2$	Dist ($''$)	Δ Row	Δ Col	m_2	m_1	D_2/D_1	Mechanism	Flag	σ_P	σ_T
007198769-02	7198769	RR-Lyr-pri	7198959	1:1	184.7	9	-46	7.86	15.79	10564.00	Direct-PRF	0	1.40	9.44

Notes: $P_1:P_2$ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m_2 and m_1 are the magnitudes of the parent and child. D_2/D_1 is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

KIC: 7198769 Candidate: 2 of 3 Period: 0.567 d



DV Fit Results:

Period = 0.56690 [0.00002] d
Epoch = 131.6456 [0.0042] BKJD
Rp/R* = 0.0090 [0.0078]
a/R* = 1.16 [1.16]
b = 0.94 [0.49]
Seff = 2511.15 [511.39]
Teq = 1805 [92] K
Rp = 0.76 [0.66] Re
a = 0.0127 [0.0014] AU
Ag = 4.07 [7.20] [0.43 σ]
Teffp = 3963 [1752] K [1.23 σ]

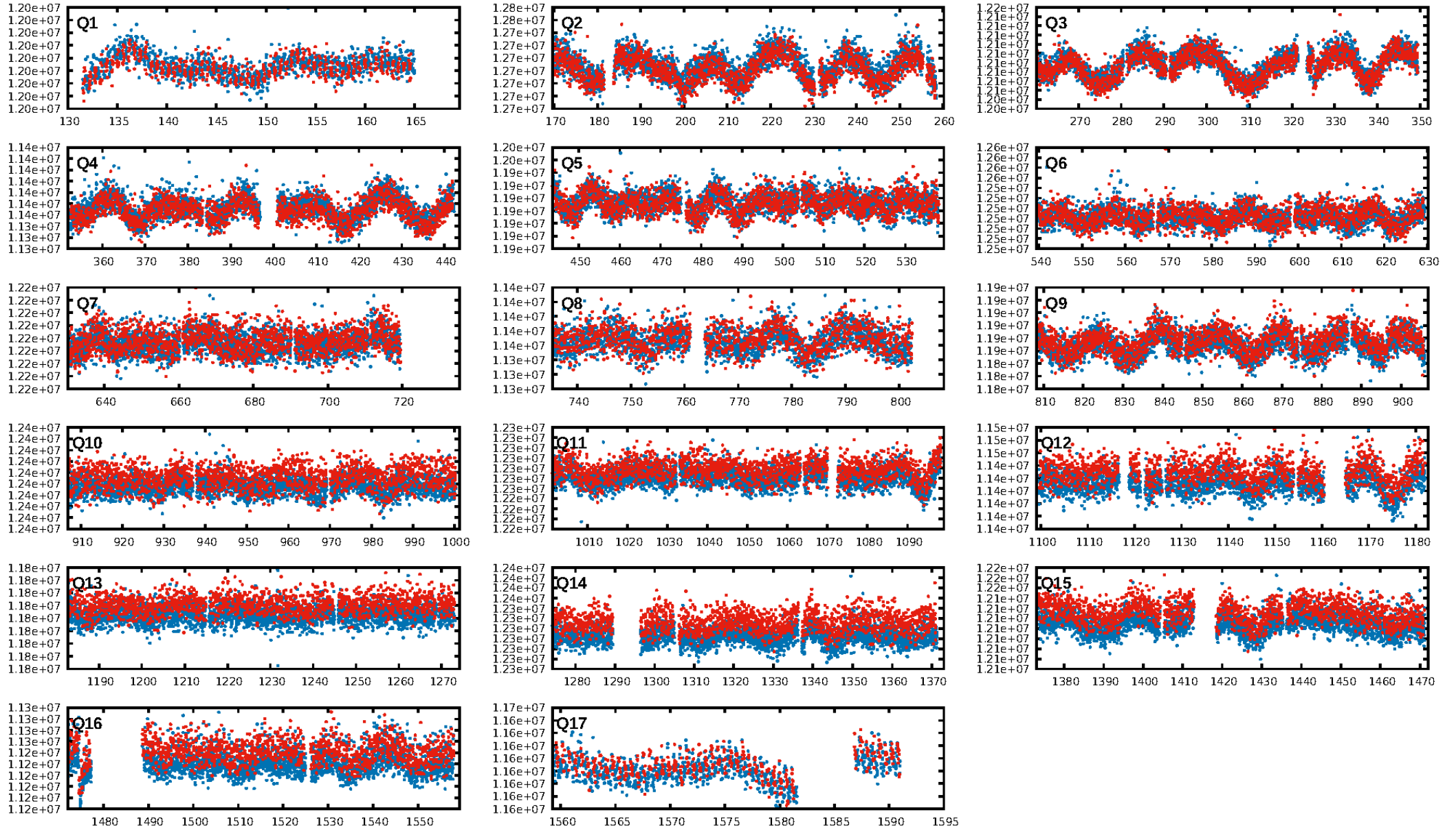
DV Diagnostic Results:

ShortPeriod-sig: 0.2% [0.00 σ]
LongPeriod-sig: 100.0% [290.20 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.39e-26
RollingBand-fgt: 1.00 [1681/1681]
GhostDiagnostic-chr: 0.04696
Centroid-sig: N/A
Centroid-so: 2.438 arcsec [1.66 σ]
OotOffset-rm: 2.847 arcsec [5.92 σ]
KicOffset-rm: 2.777 arcsec [5.18 σ]
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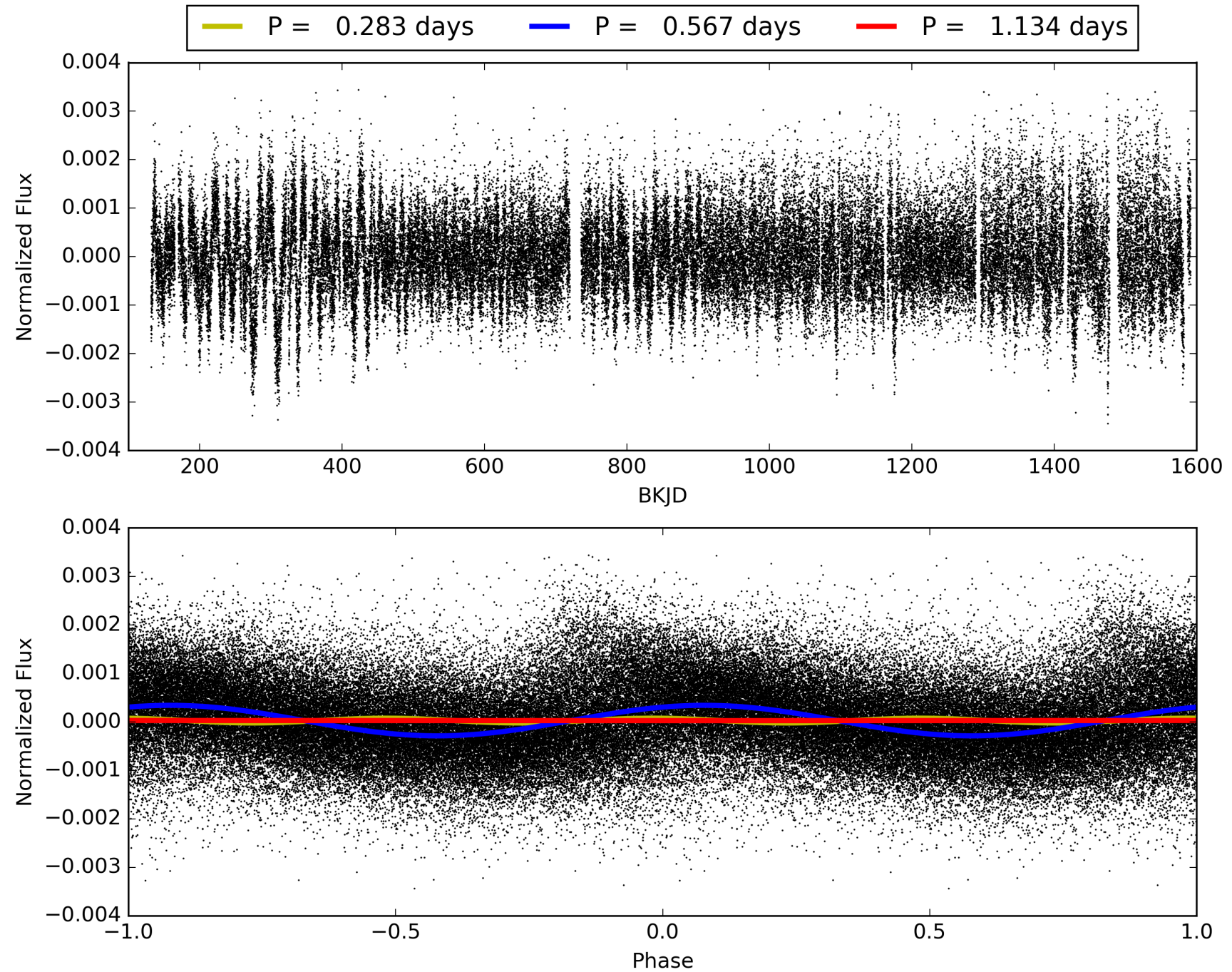
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:17:35 Z

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

TCE 007198769-02, PDC Light Curves

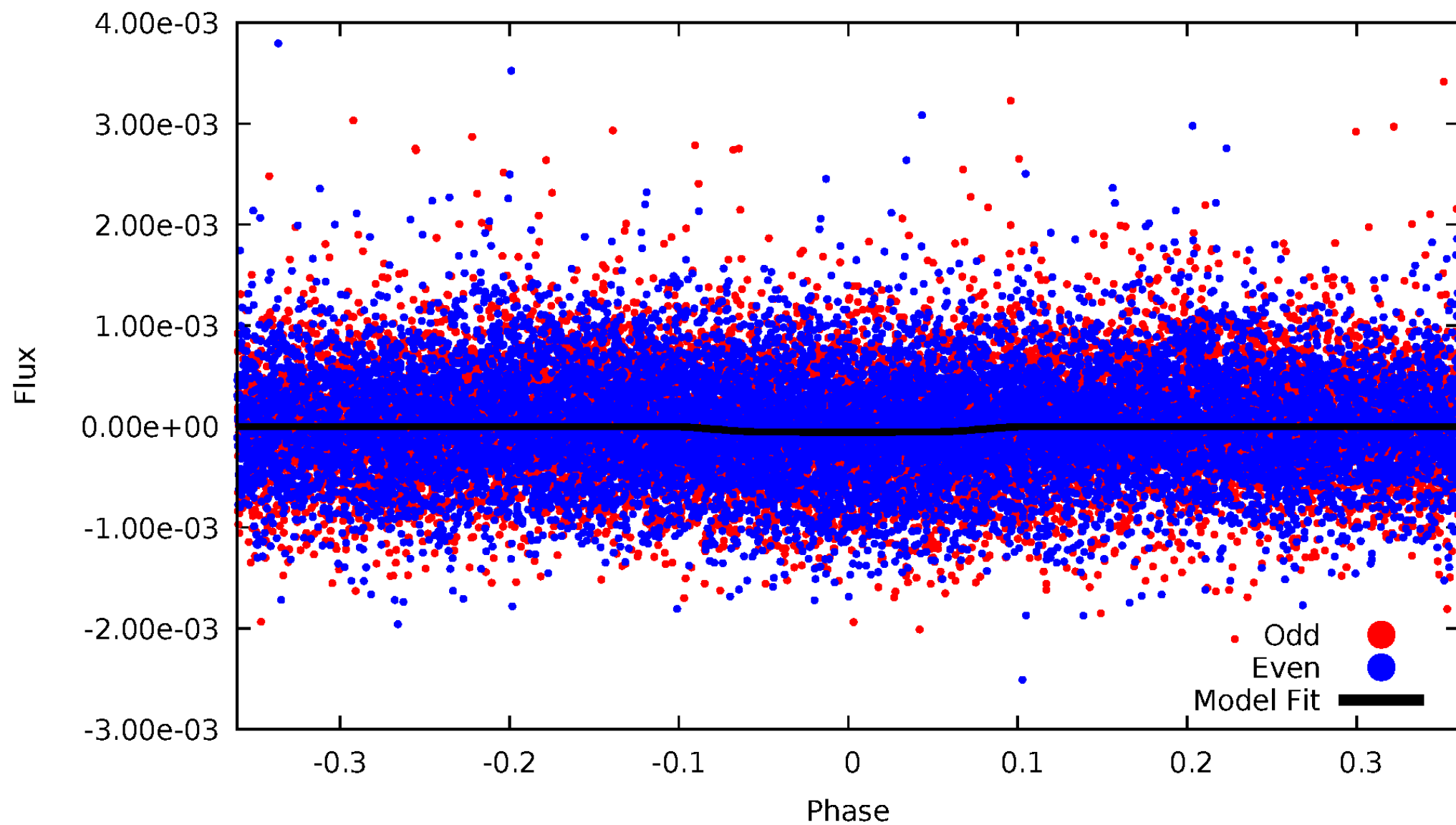


TCE 007198769-02



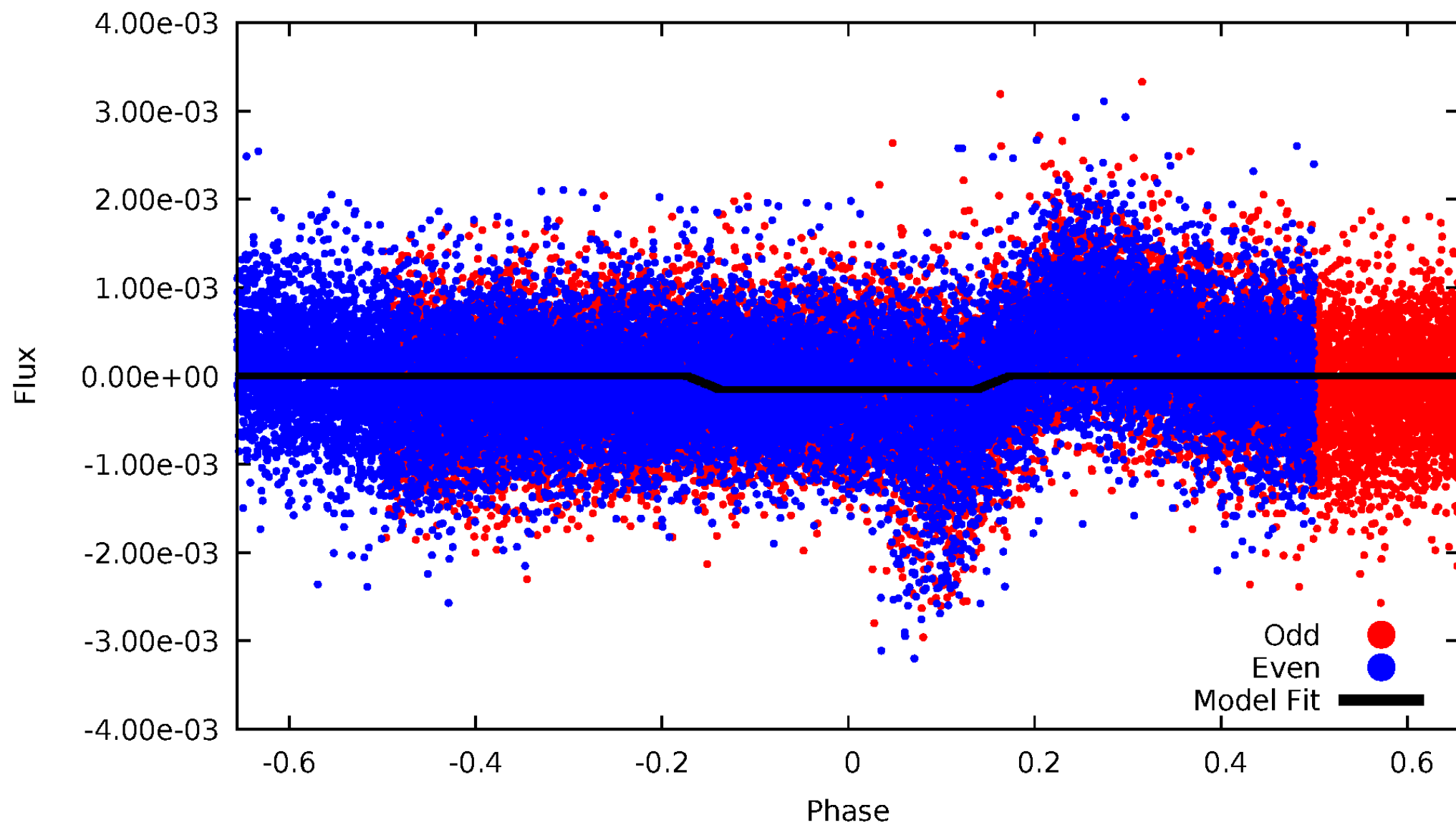
DV Odd/Even

TCE 007198769-02



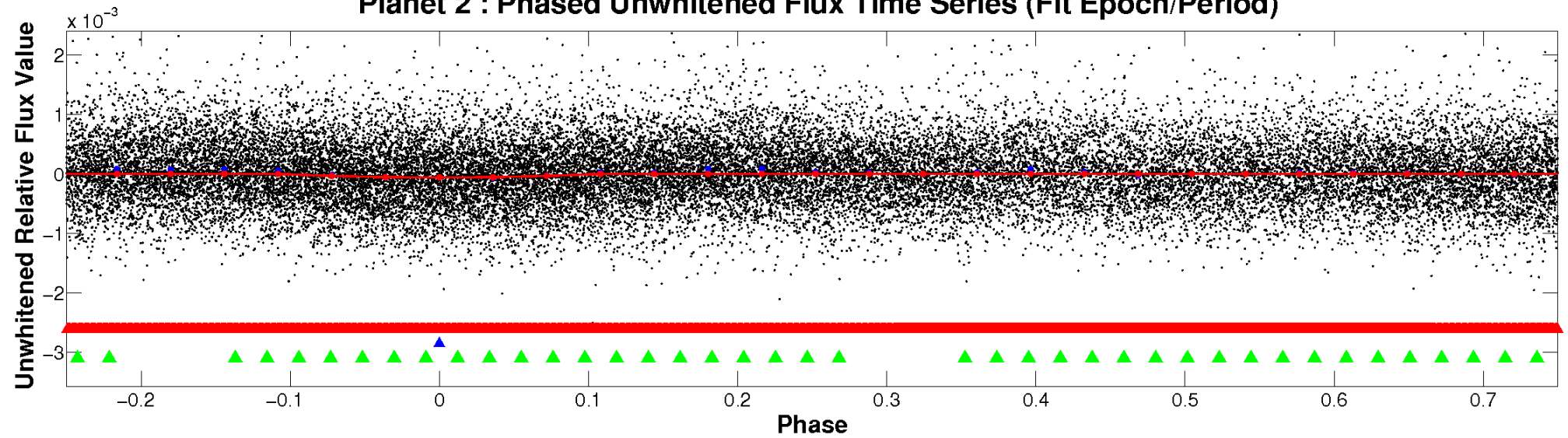
ALT Odd/Even

TCE 007198769-02

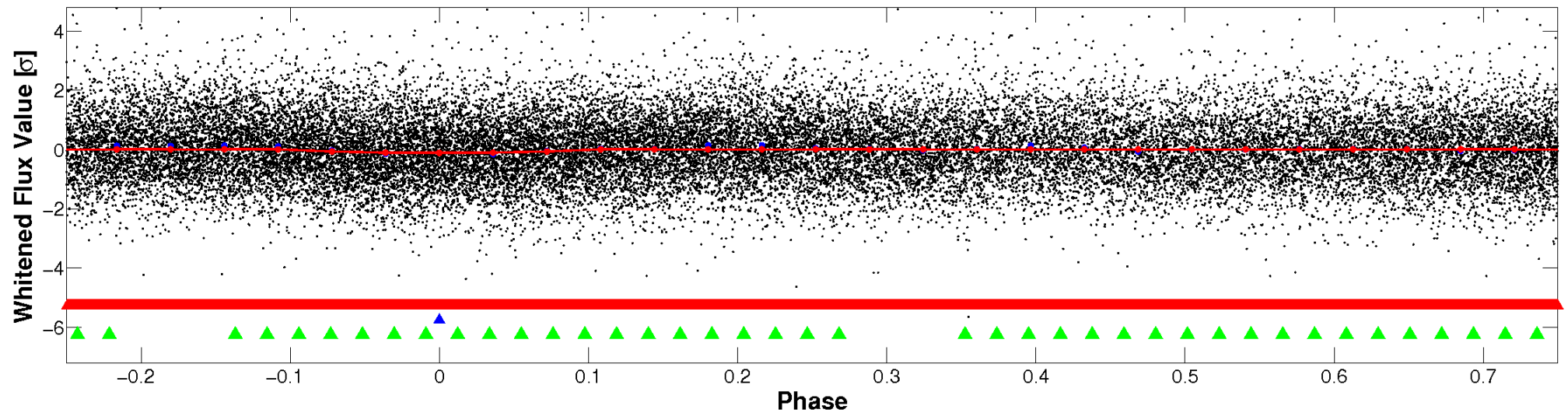


Non-Whitened Vs. Whitened Light Curve

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

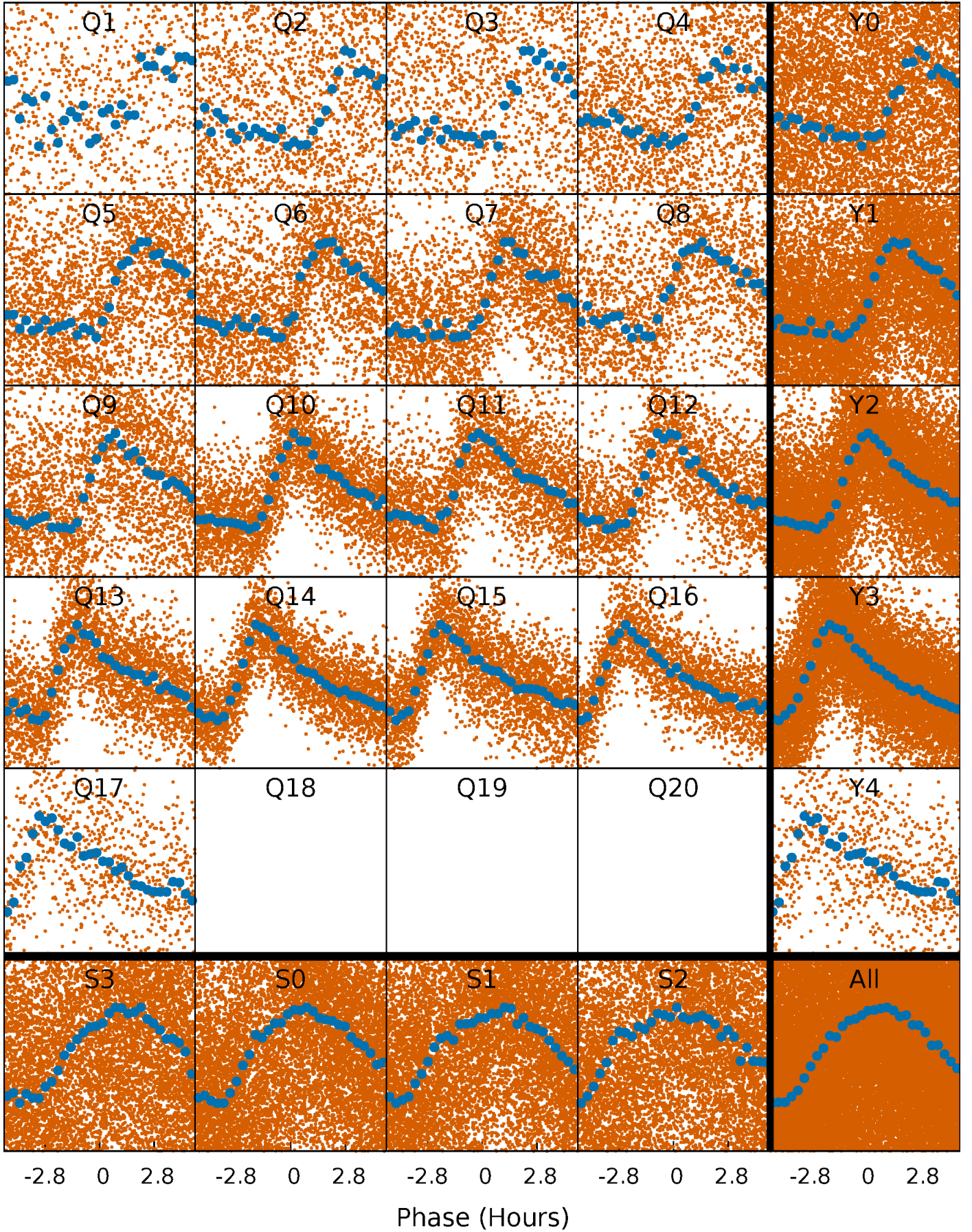


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



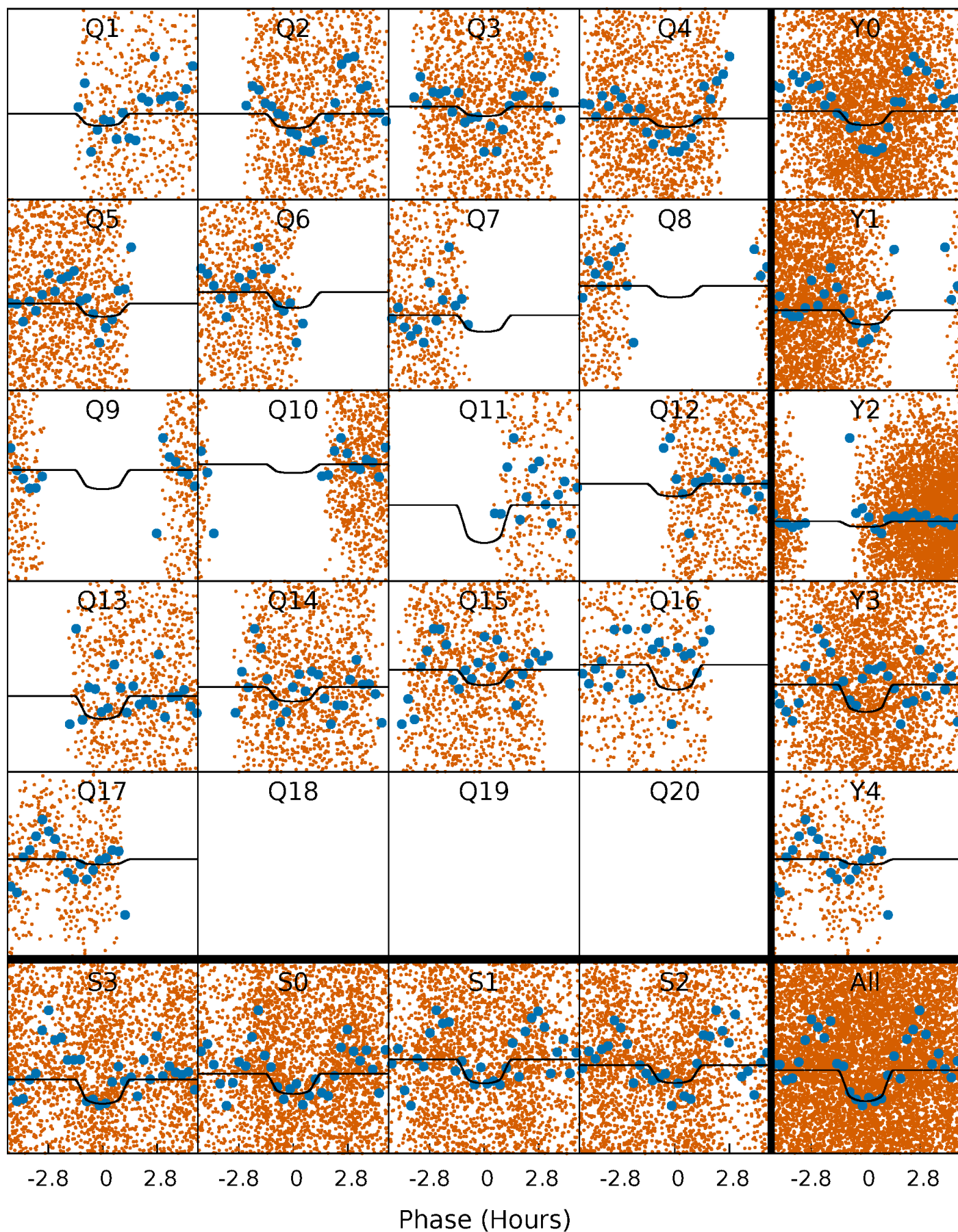
PDC Quarter-Phased Transit Curves

TCE 007198769-02 P= 0.566901 Days $T_0=131.645626$ (BKJD)



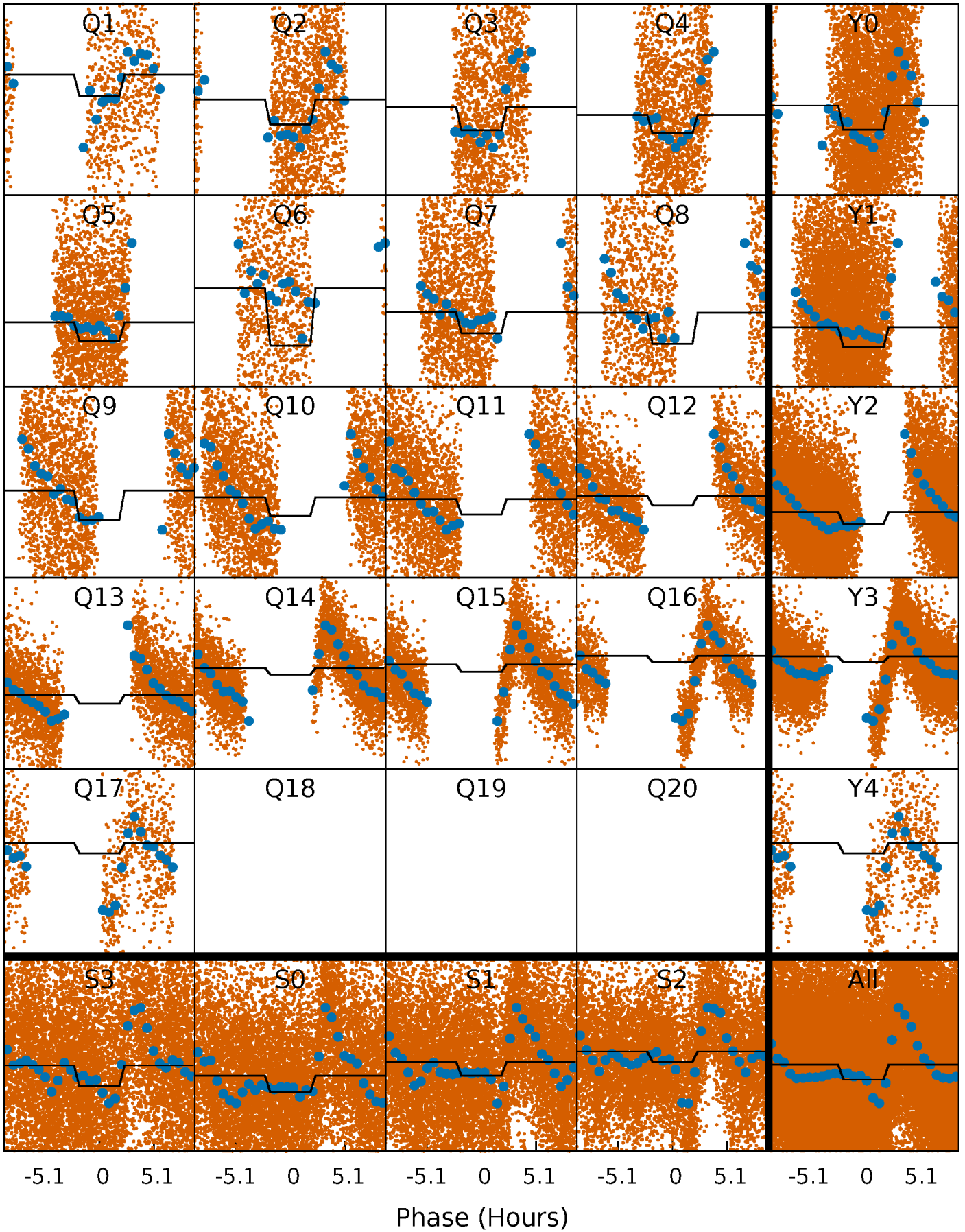
DV Quarter-Phased Transit Curves

TCE 007198769-02 P= 0.566901 Days $T_0=131.645626$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

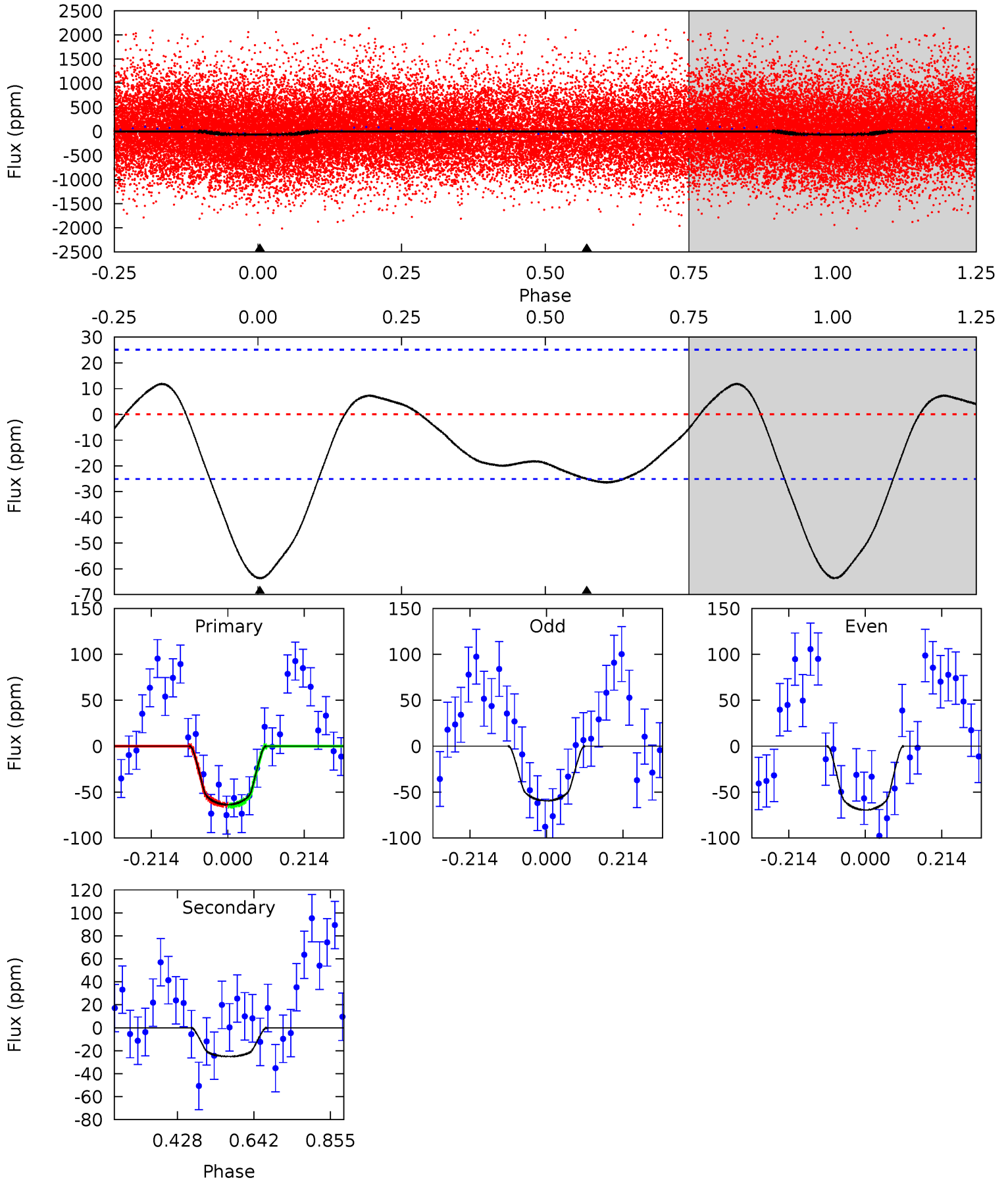
TCE 007198769-02 P= 0.566803 Days $T_0=131.641853$ (BKJD)



DV Model-Shift Uniqueness Test

007198769-02, P = 0.566901 Days, E = 131.078725 Days

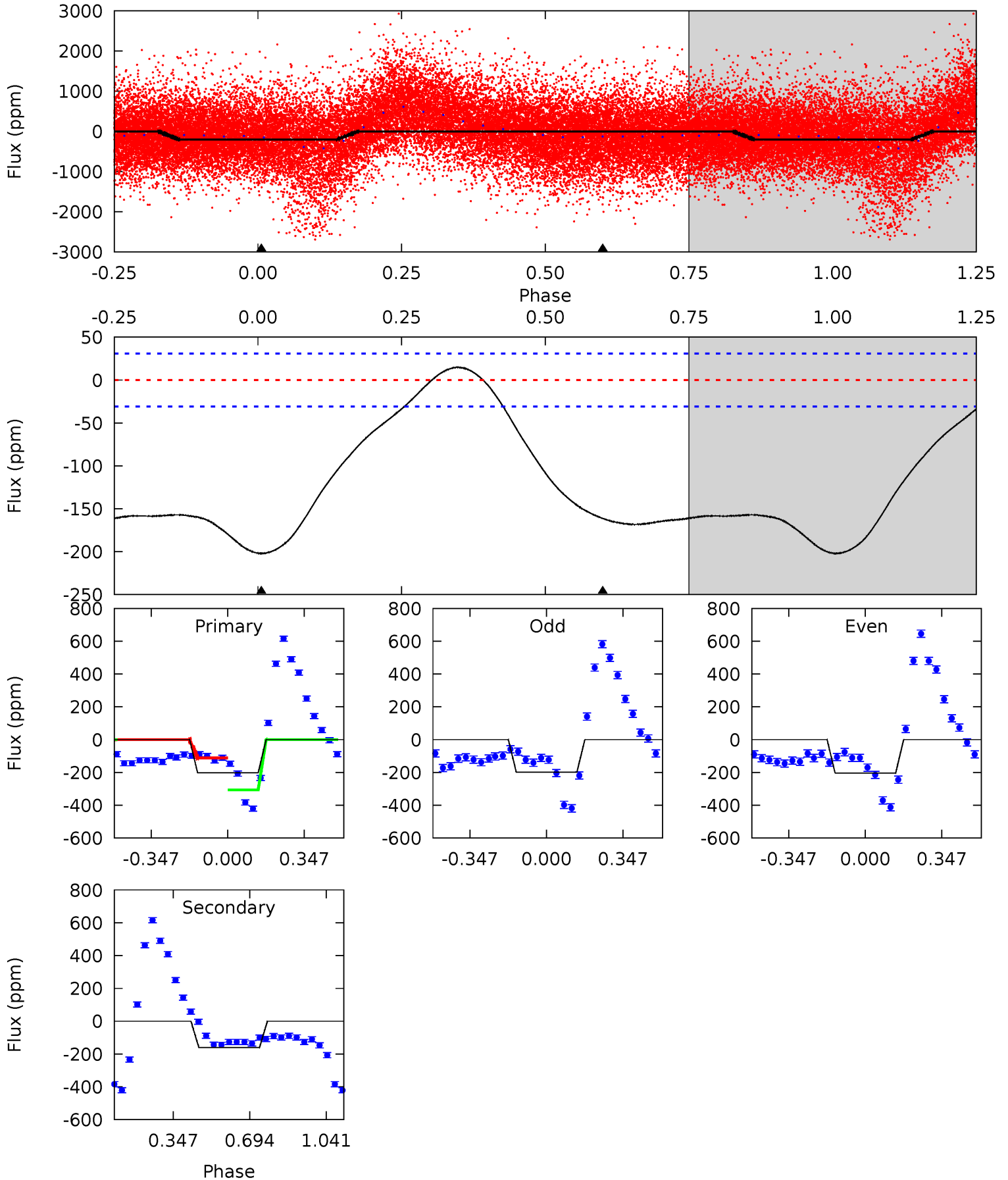
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.2	4.39	0	0	4.40	1.24	1.10	11.2	11.2	4.39	4.39	0.88	0.83	0.16	0.09



Alt Model-Shift Uniqueness Test

007198769-02, P = 0.566803 Days, E = 131.075050 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.1	22.4	0	0	4.30	0.94	2.31	28.1	28.1	22.4	22.4	0.33	1.77	0.07	14.0



Stellar Parameters For KIC 007198769

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5257^{+142}_{-158}	$4.596^{+0.030}_{-0.090}$	$-0.080^{+0.300}_{-0.300}$	$0.771^{+0.103}_{-0.069}$	$0.865^{+0.060}_{-0.103}$	$2.657^{+0.440}_{-0.800}$
	+3%/-3%	+1%/-2%	+375%/-375%	+13%/-9%	+7%/-12%	+17%/-30%
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 007198769-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-25 ± 6	$0.90^{+0.59}_{-0.54}$	2553^{+95}_{-90}	3851^{+1842}_{-725}	$2.730^{+15.837}_{-1.794}$
Alt.	-161 ± 7	$1.09^{+0.67}_{-0.62}$	2545^{+100}_{-94}	5191^{+2847}_{-930}	12^{+53}_{-7}

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

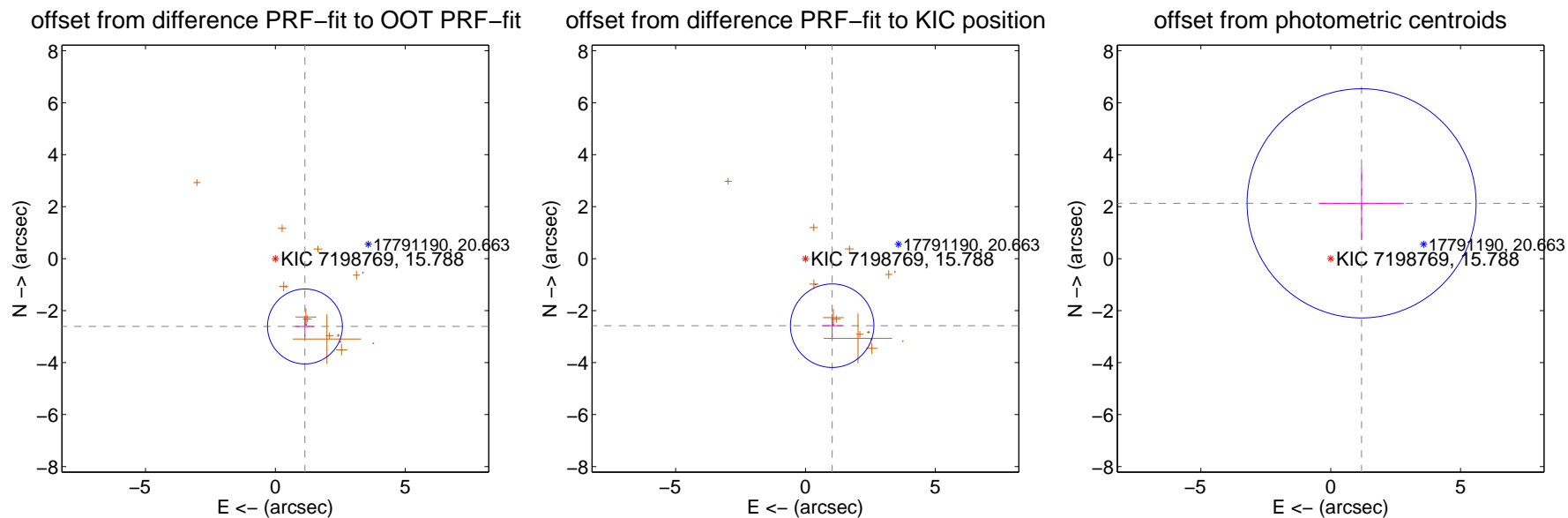
DV Centroid Data

Supplemental centroid analysis for 007198769-02. Kepler magnitude: 15.79. Transit SNR 7.78

There are 0 quarters with good PRF difference image offsets

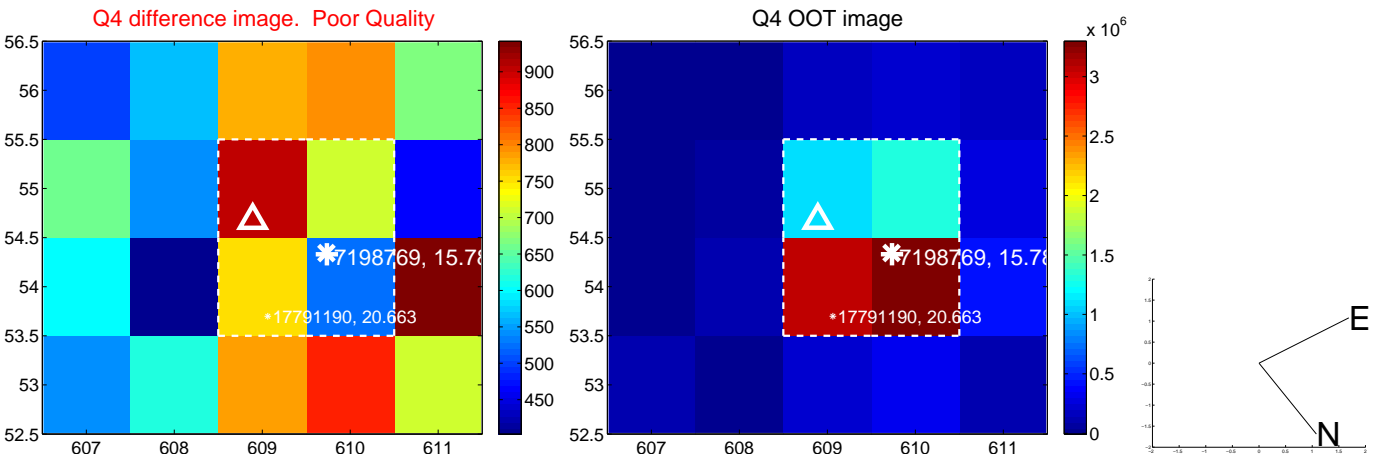
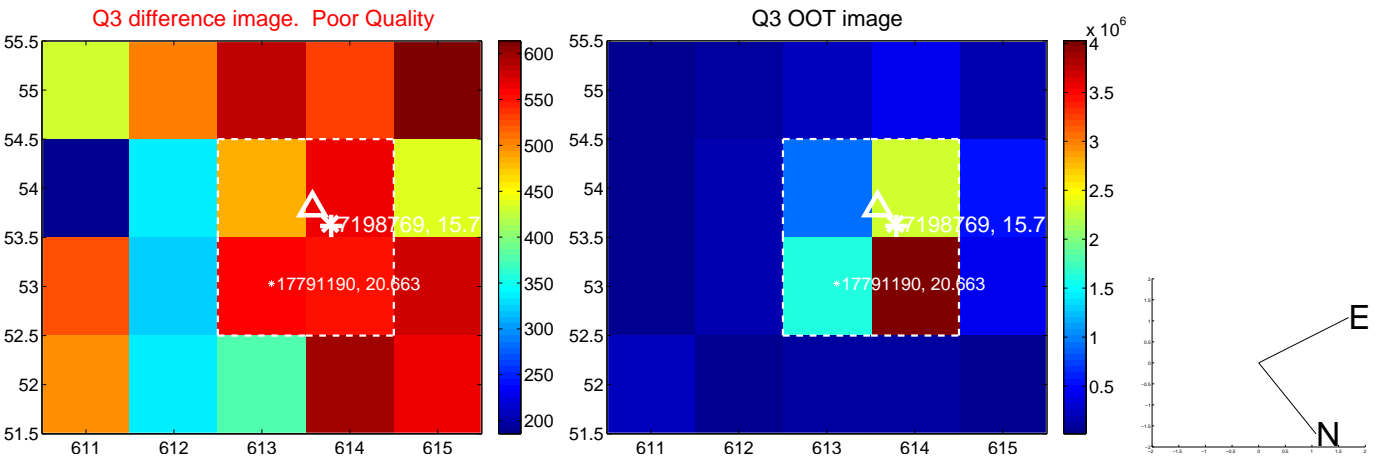
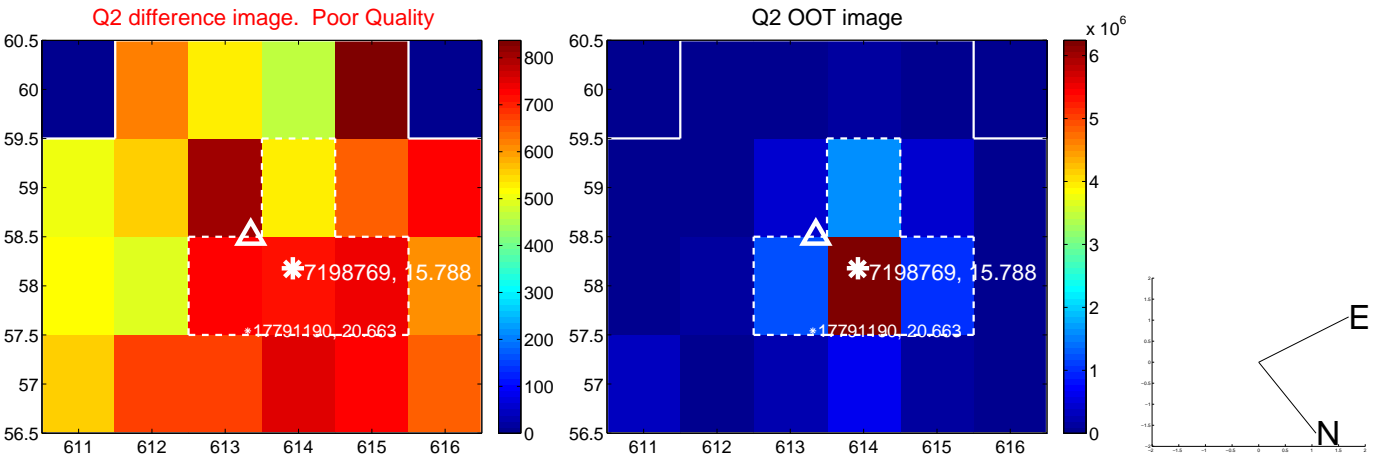
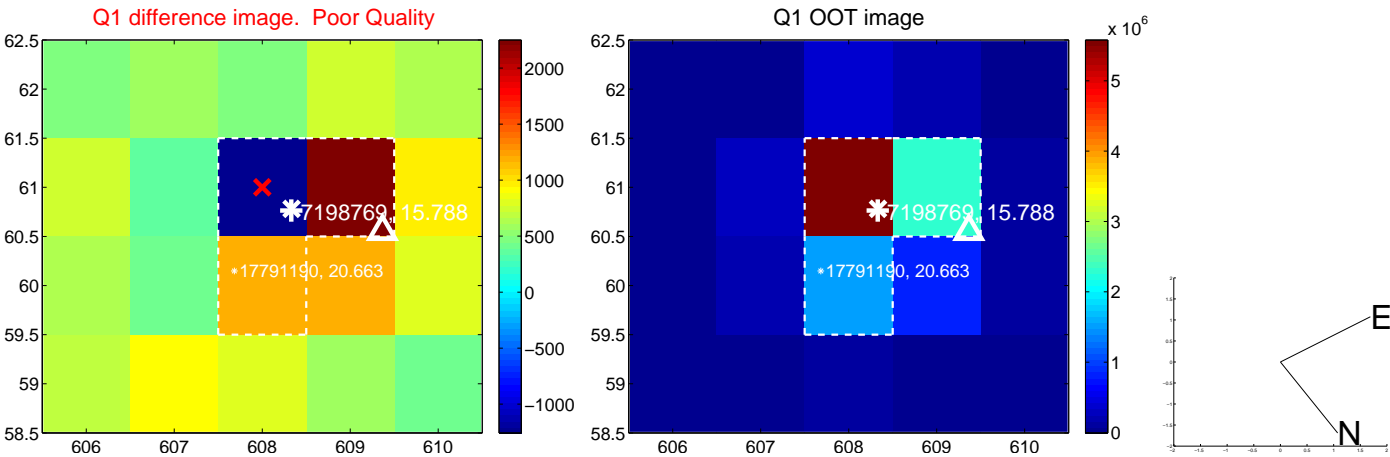
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.847 ± 0.481	5.92	-1.139 ± 0.369	-2.609 ± 0.411
PRF-fit source offset from KIC position	2.777 ± 0.536	5.18	-1.028 ± 0.397	-2.580 ± 0.453
photometric centroid source offset	2.44 ± 1.47	1.66	-1.19 ± 1.63	2.13 ± 1.42

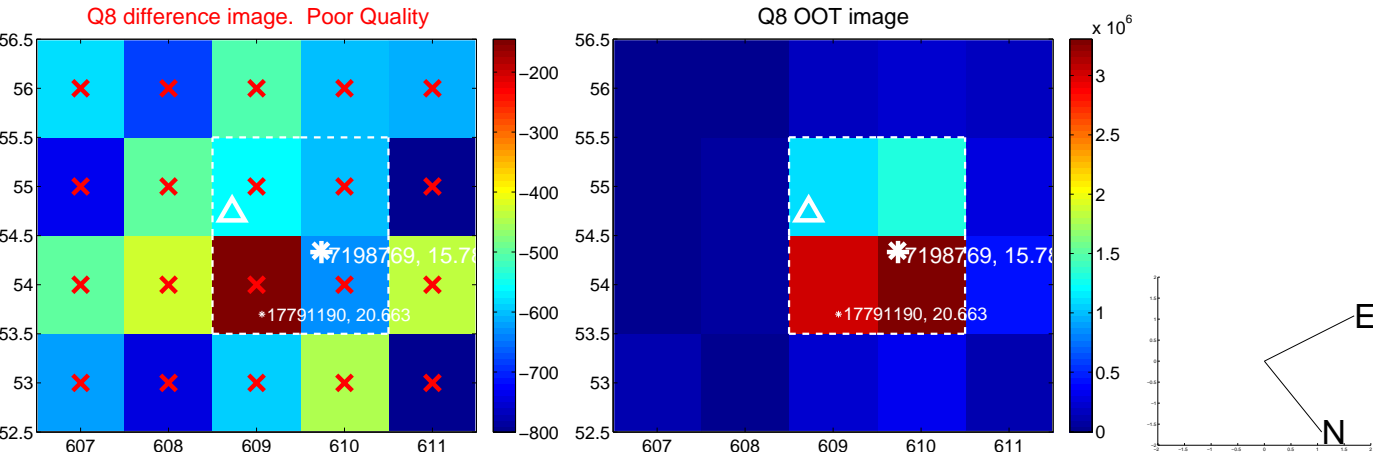
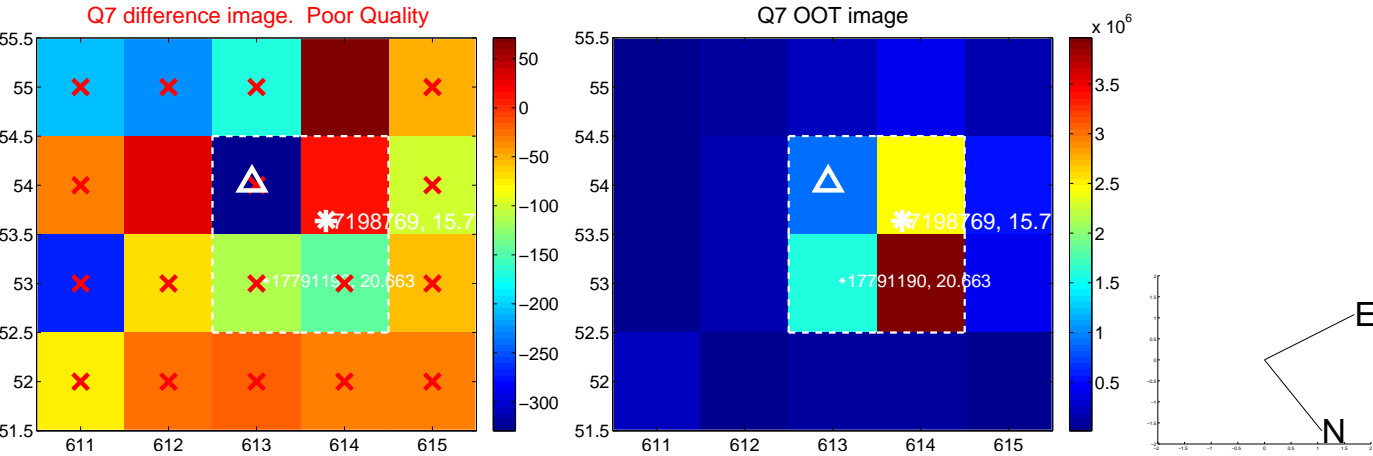
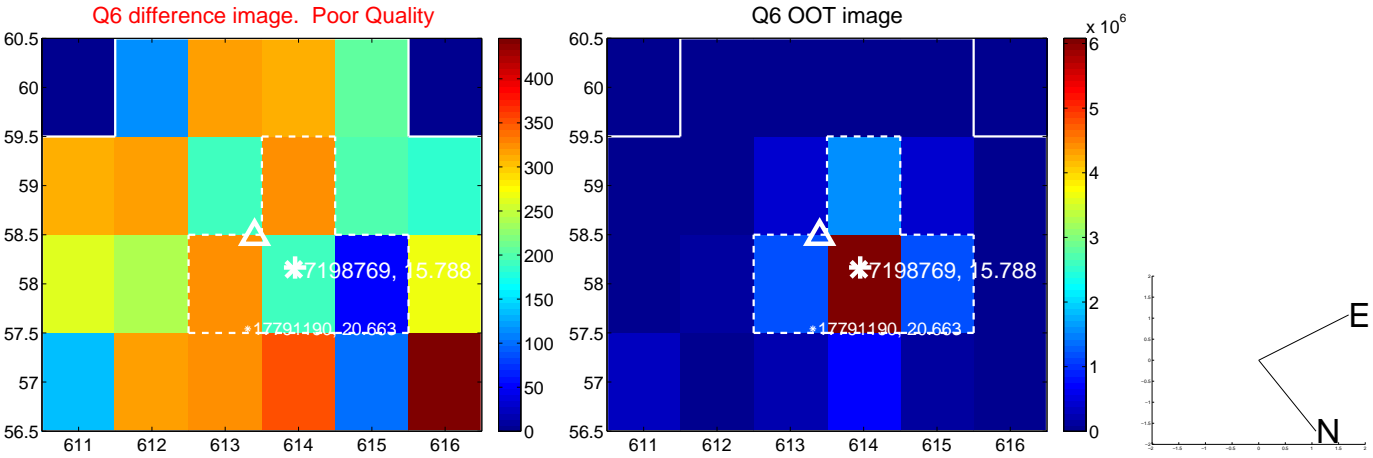
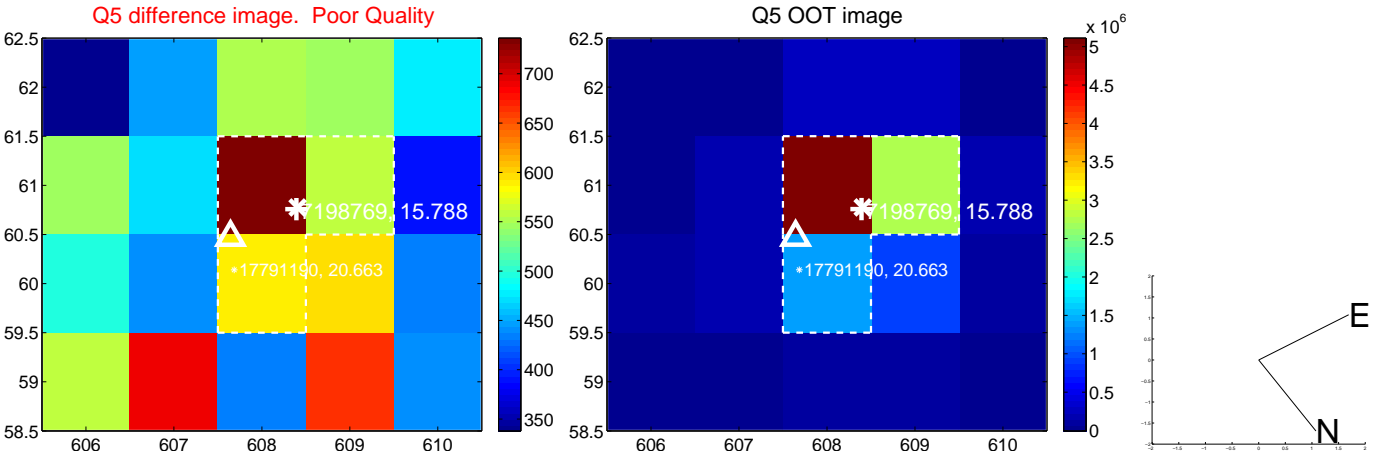


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

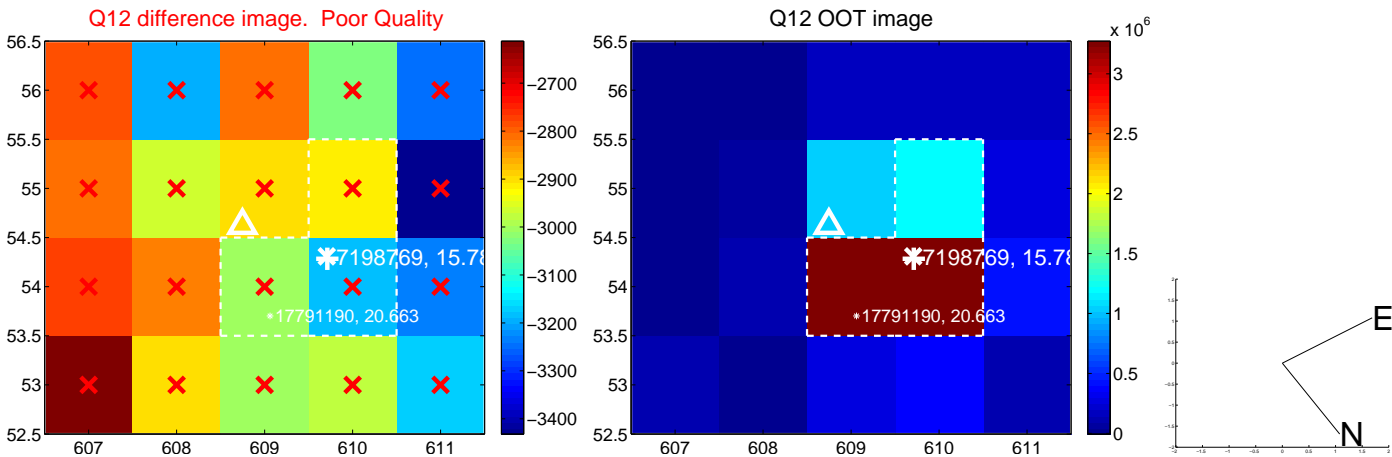
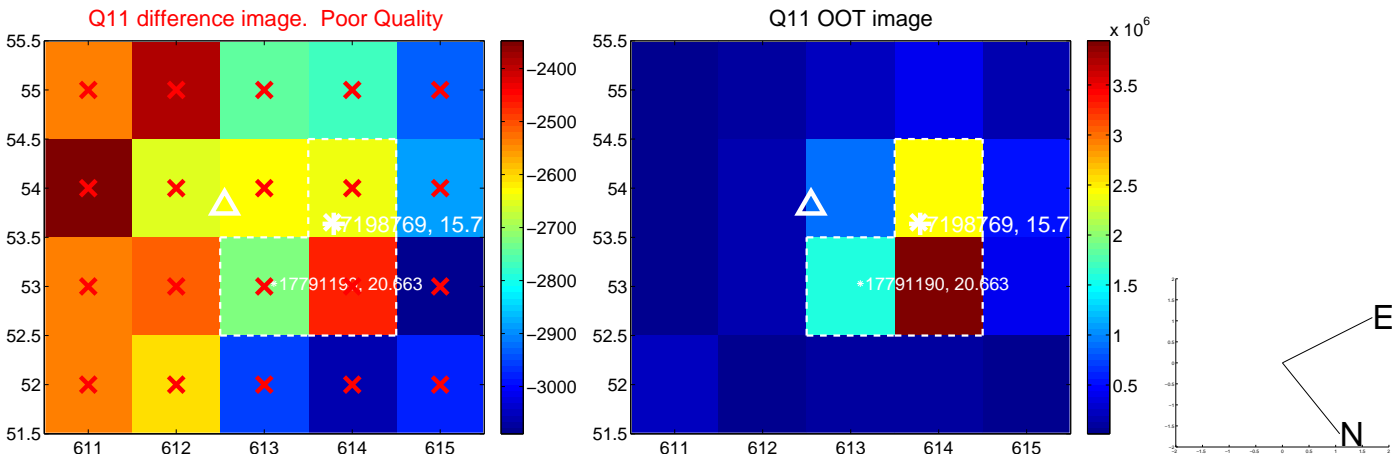
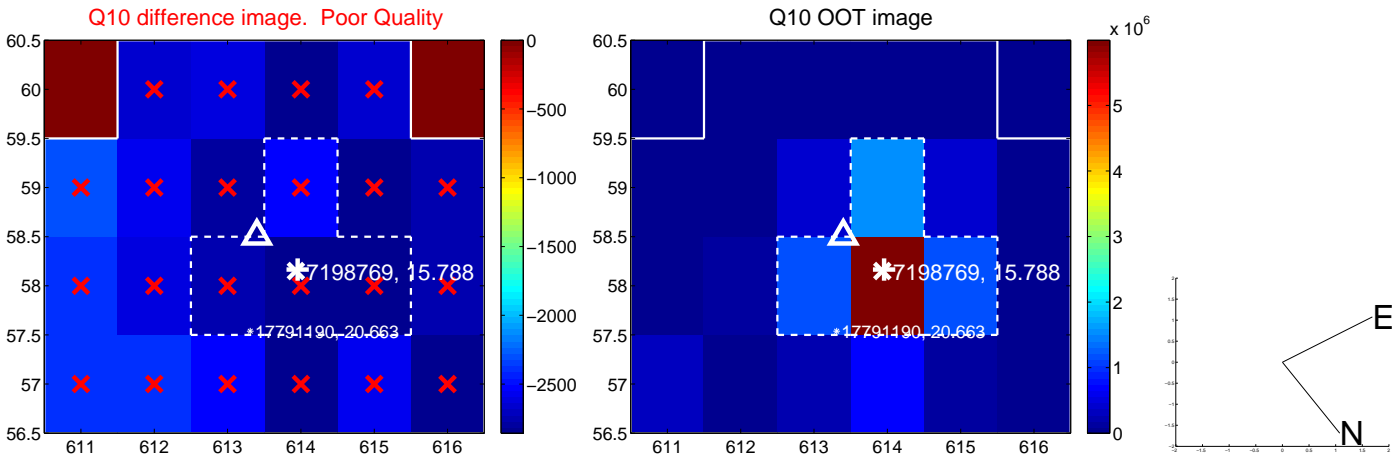
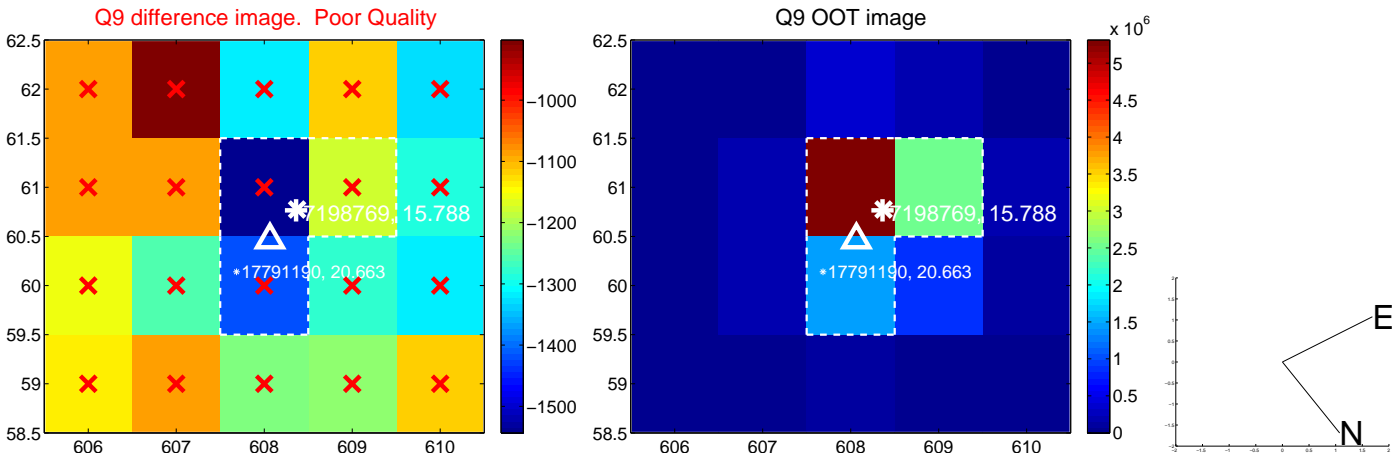
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



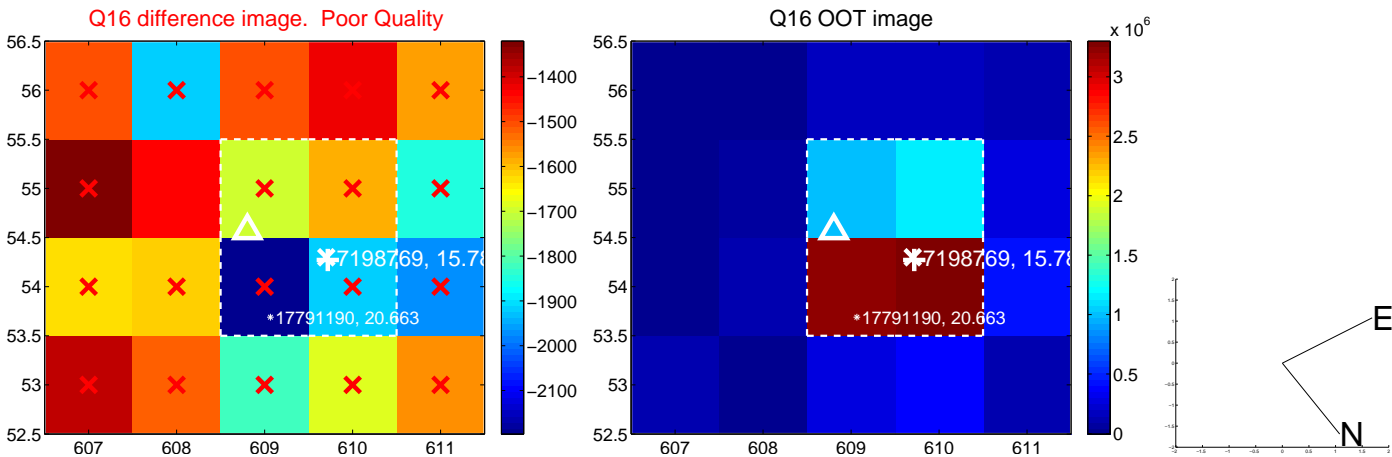
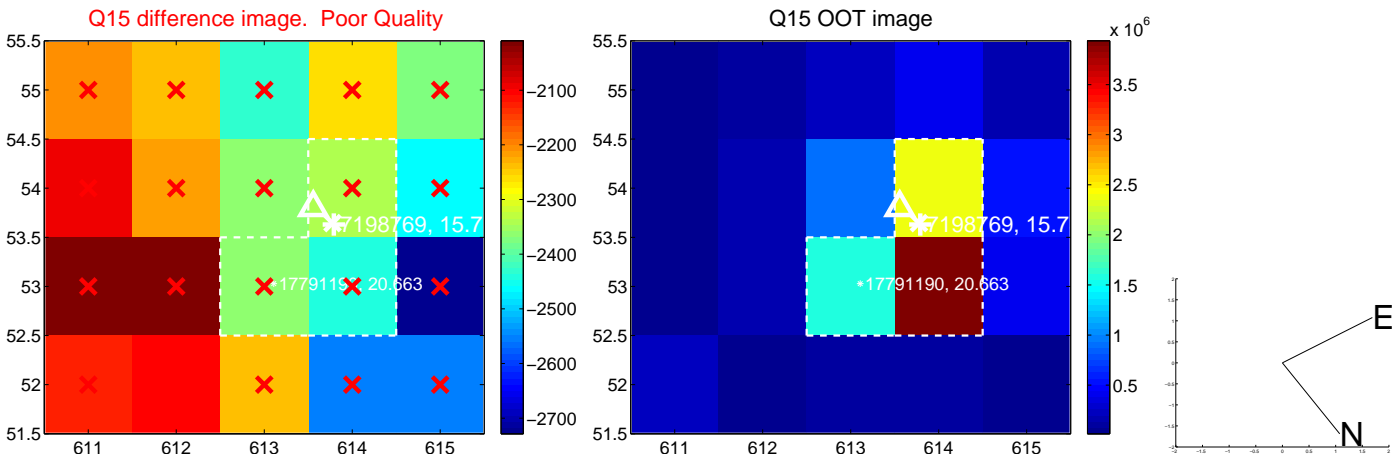
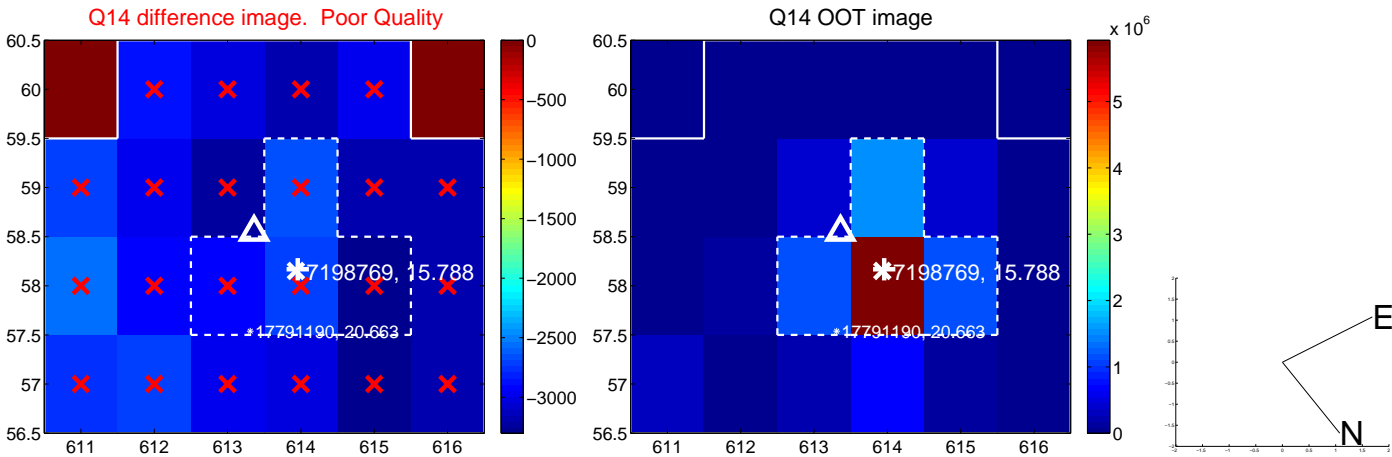
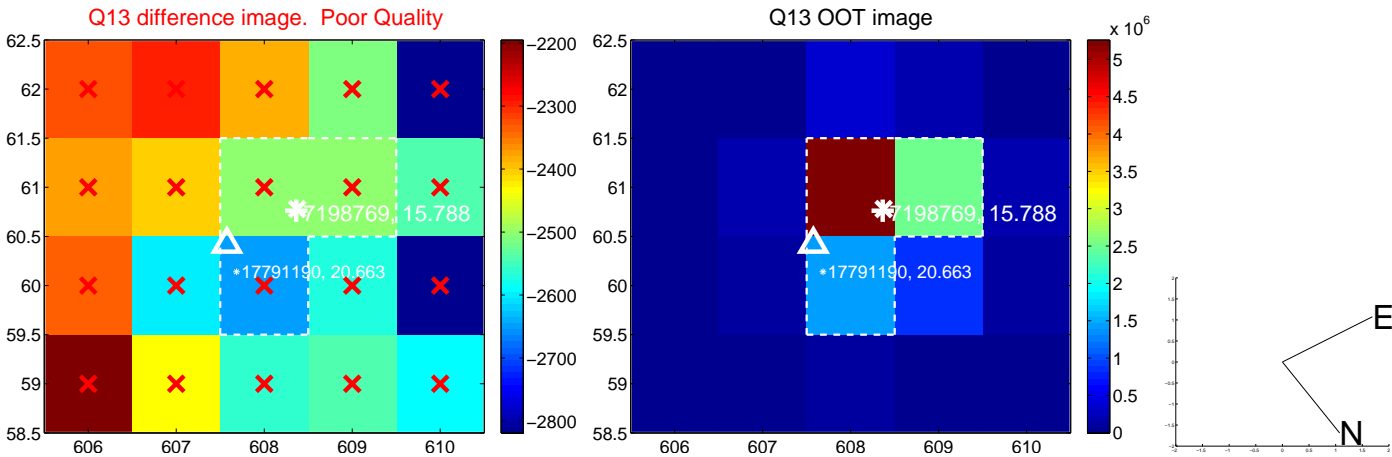
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



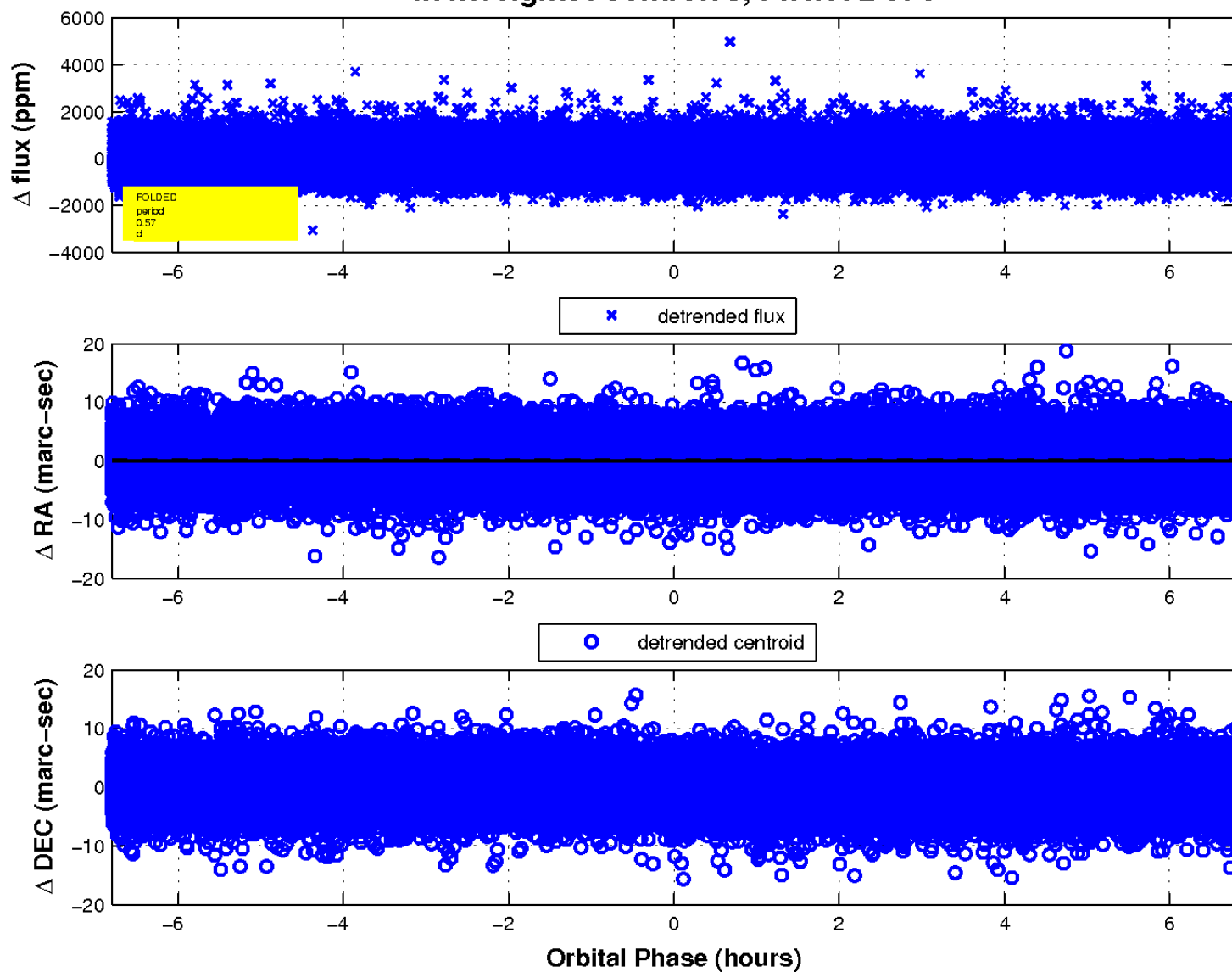
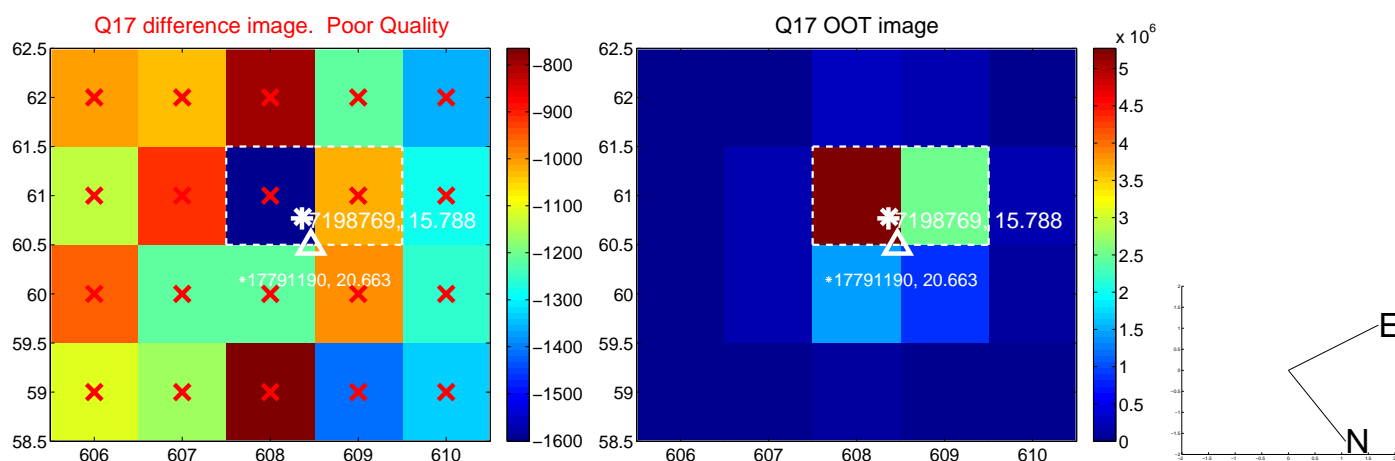
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

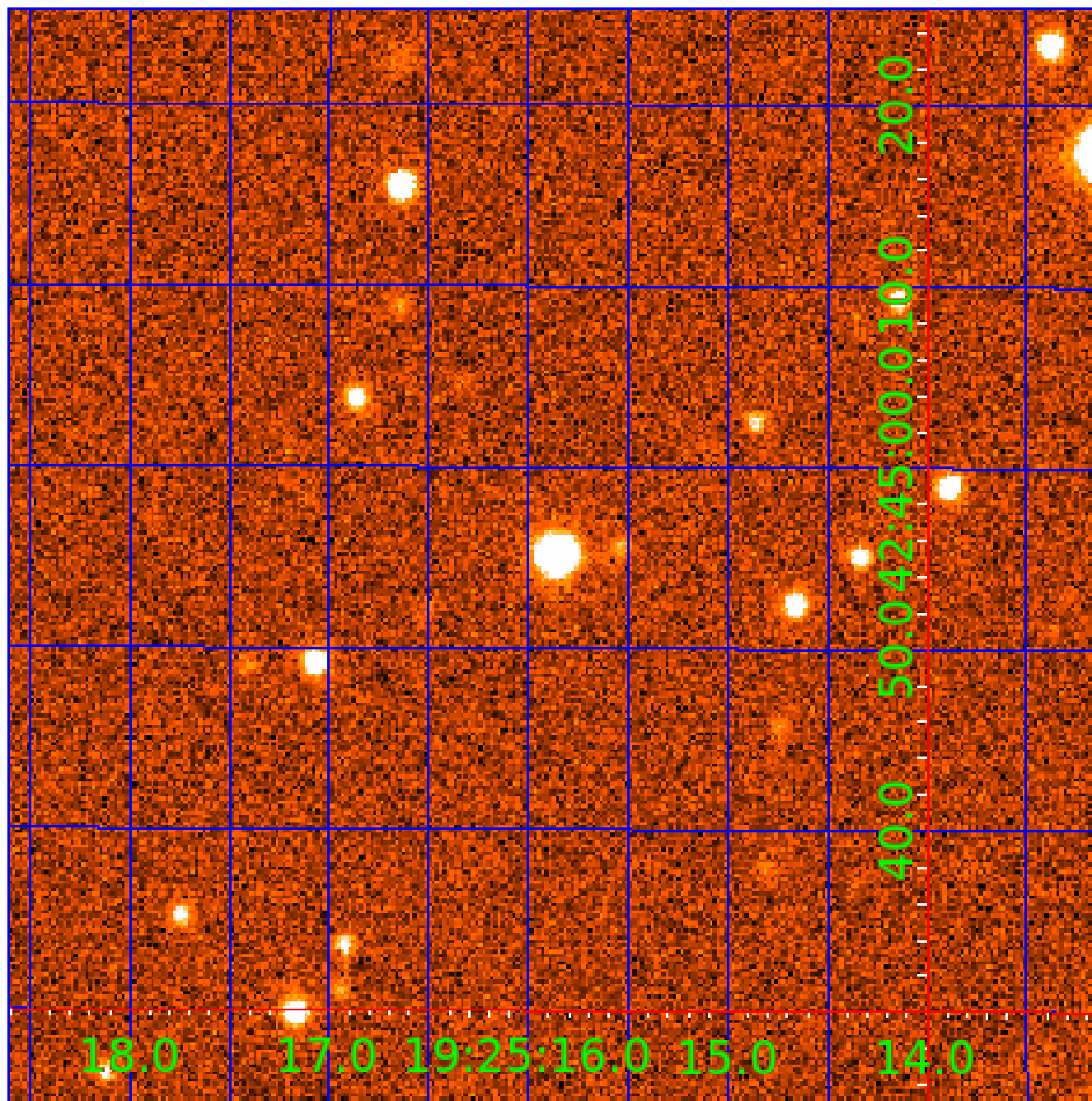


white \times : KIC target position; $+$: OOT centroid; Δ : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007198769

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})
007198769-01	OBS	No	0.566601	132.024093	7.9	2.155	11.5	1.2	0.77	5257	0.23	2512.92
007198769-02	OBS	No	0.566901	131.645626	59.2	2.454	11.3	7.8	0.77	5257	0.76	2511.15
007198769-03	OBS	No	35.425265	162.699701	664.3	1.513	8.2	7.4	0.77	5257	1.97	10.13

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007198769-01	OBS	FP	0.00	1	0	0	1	LPP_DV—LPP_ALT—CENT_FEW_DIFFS—EPHEM_MATCH
007198769-02	OBS	FP	0.00	1	0	1	1	SWEET_NTL—LPP_DV—LPP_ALT—CENT_FEW_DIFFS—HALO_GHOST—EPHEM_MATCH
007198769-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_DIFFS

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

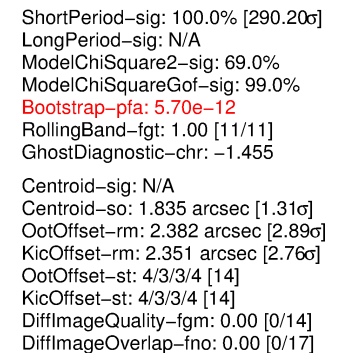
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

Ephemeris Match Information For 007198769-03

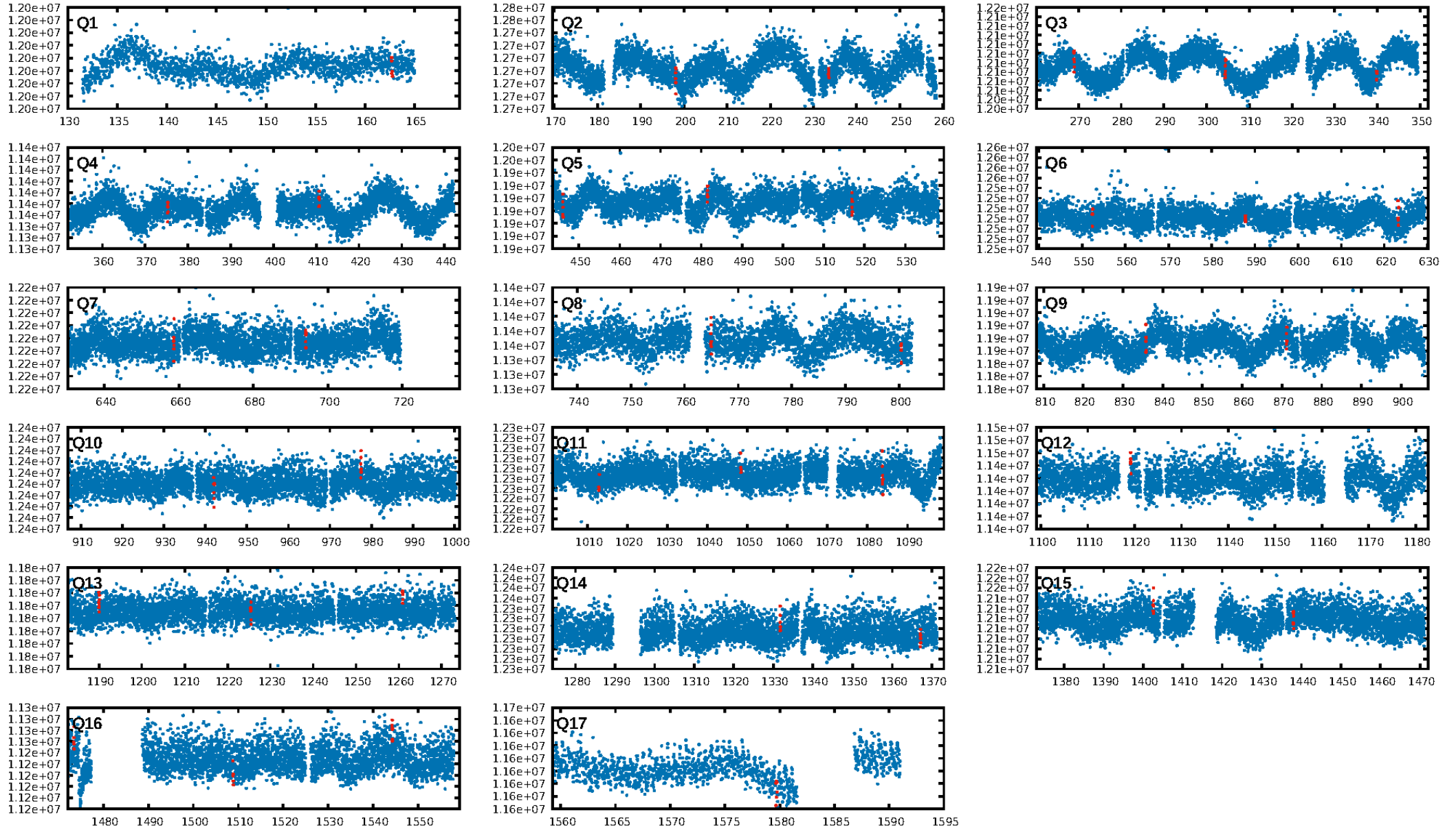
No Significant Match Found

KIC: 7198769 Candidate: 3 of 3 Period: 35.425 d

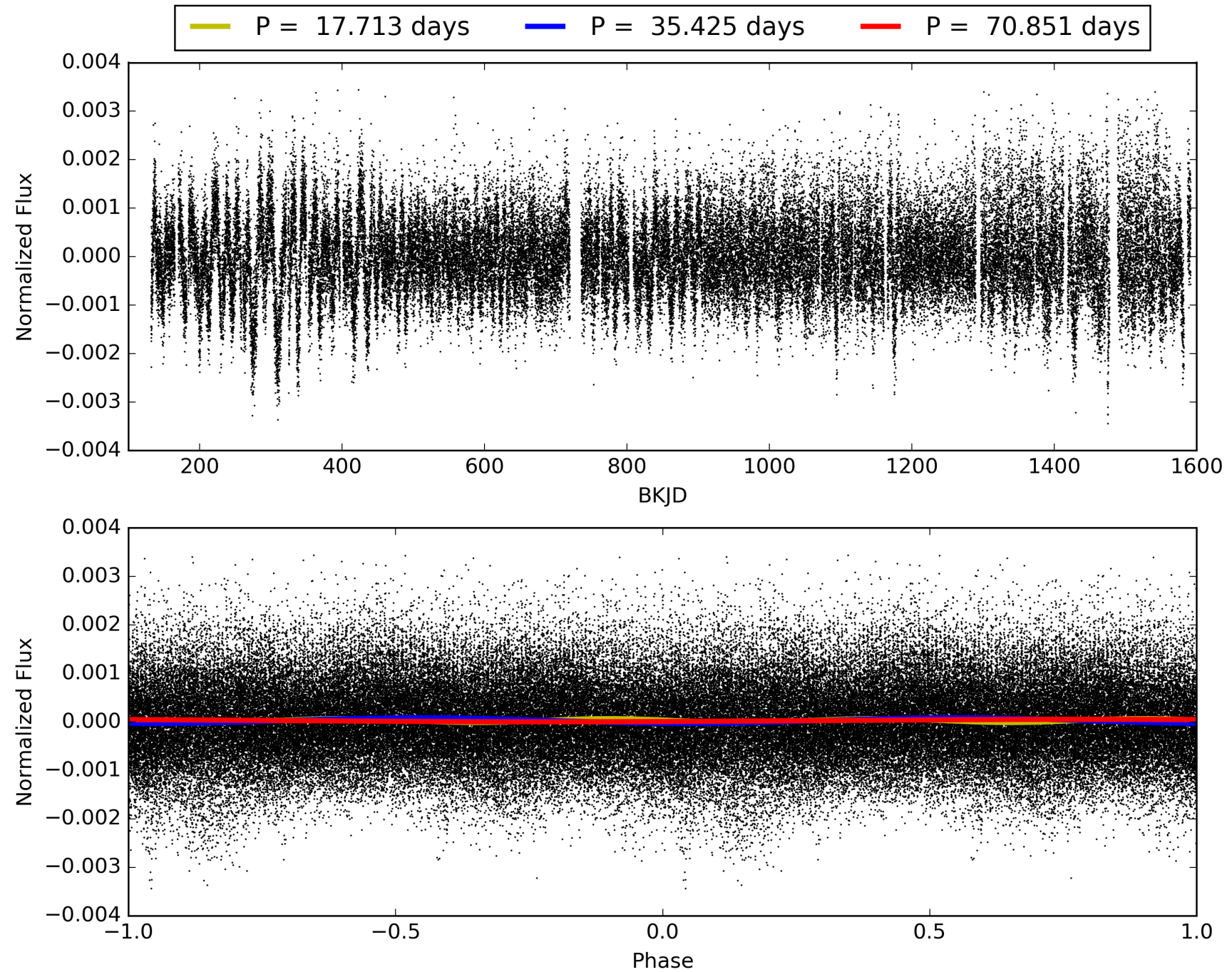


This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007198769-03, PDC Light Curves

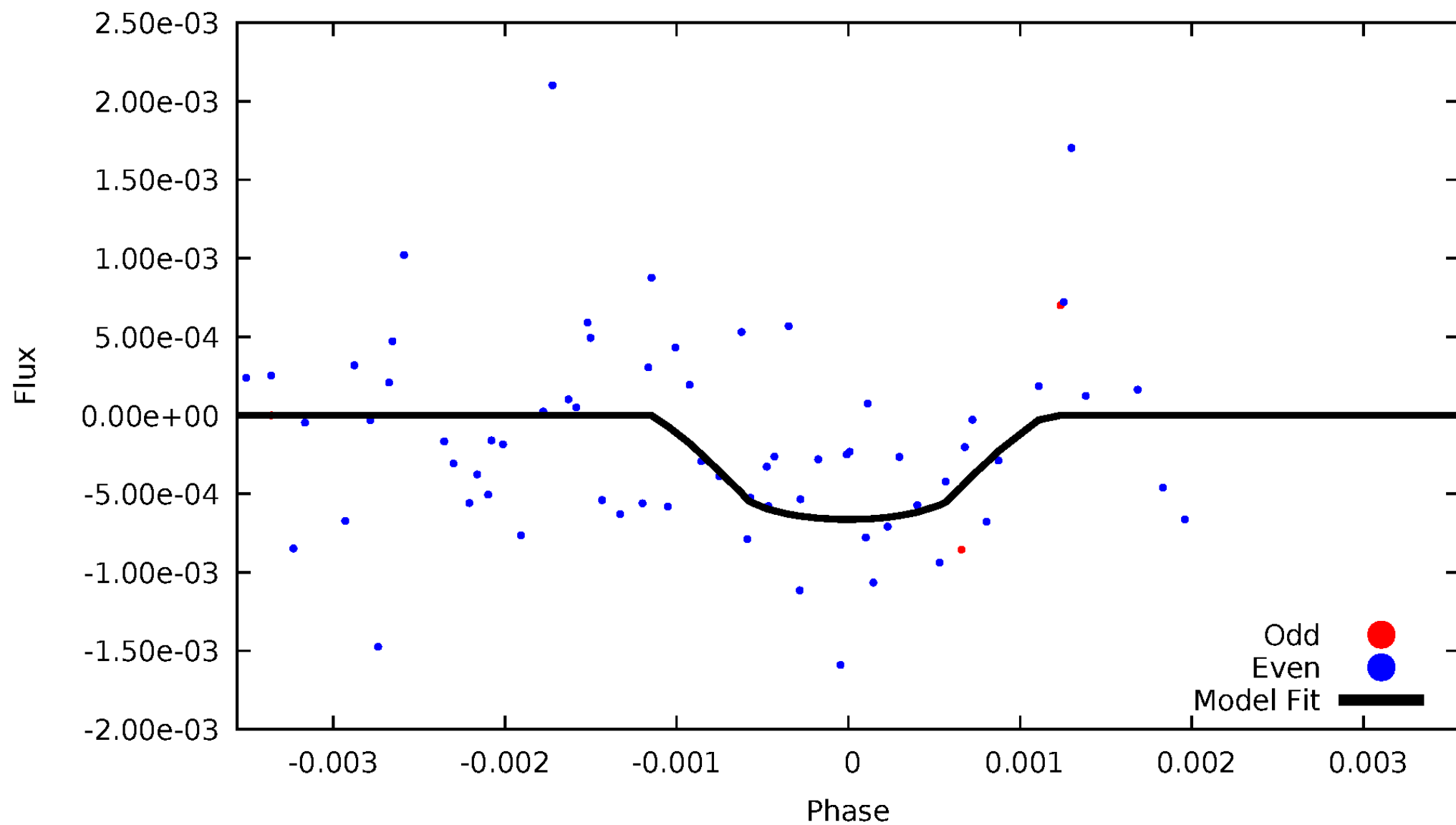


TCE 007198769-03



DV Odd/Even

TCE 007198769-03

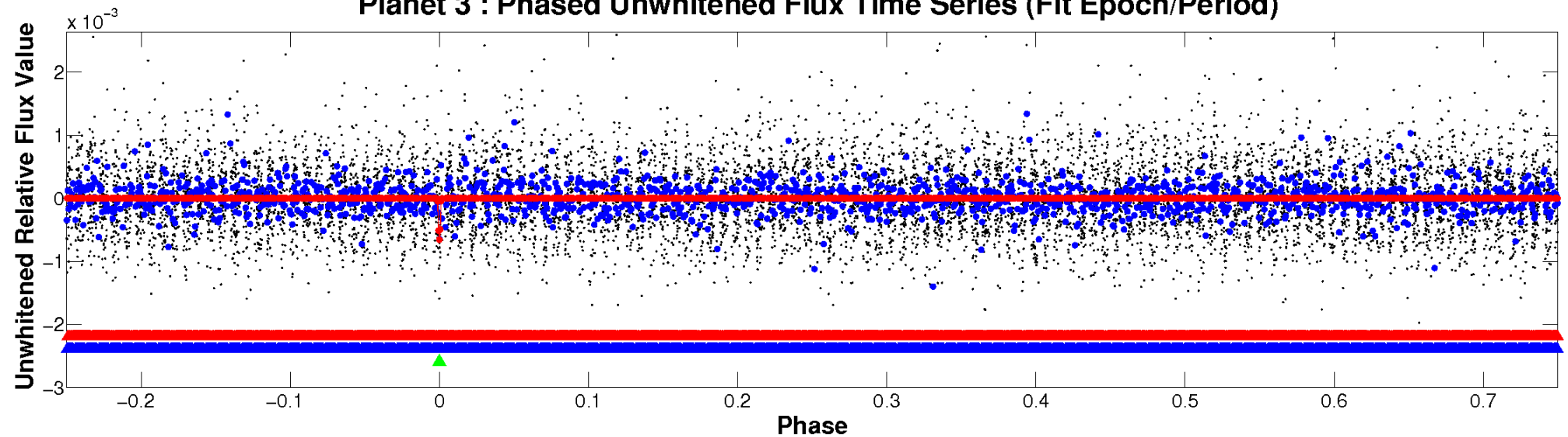


ALT Odd/Even

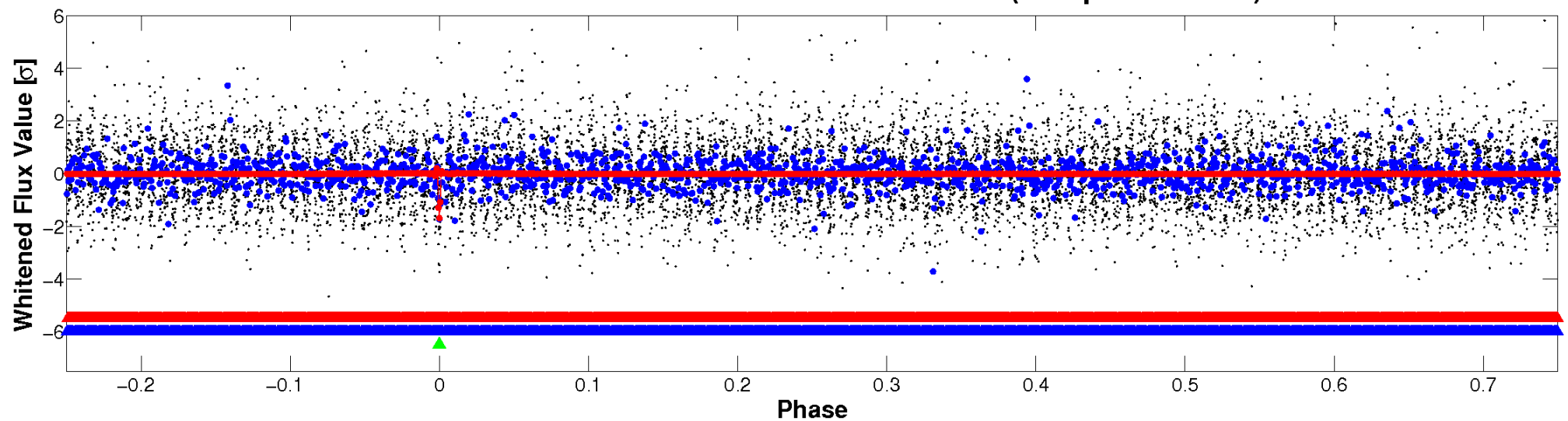
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

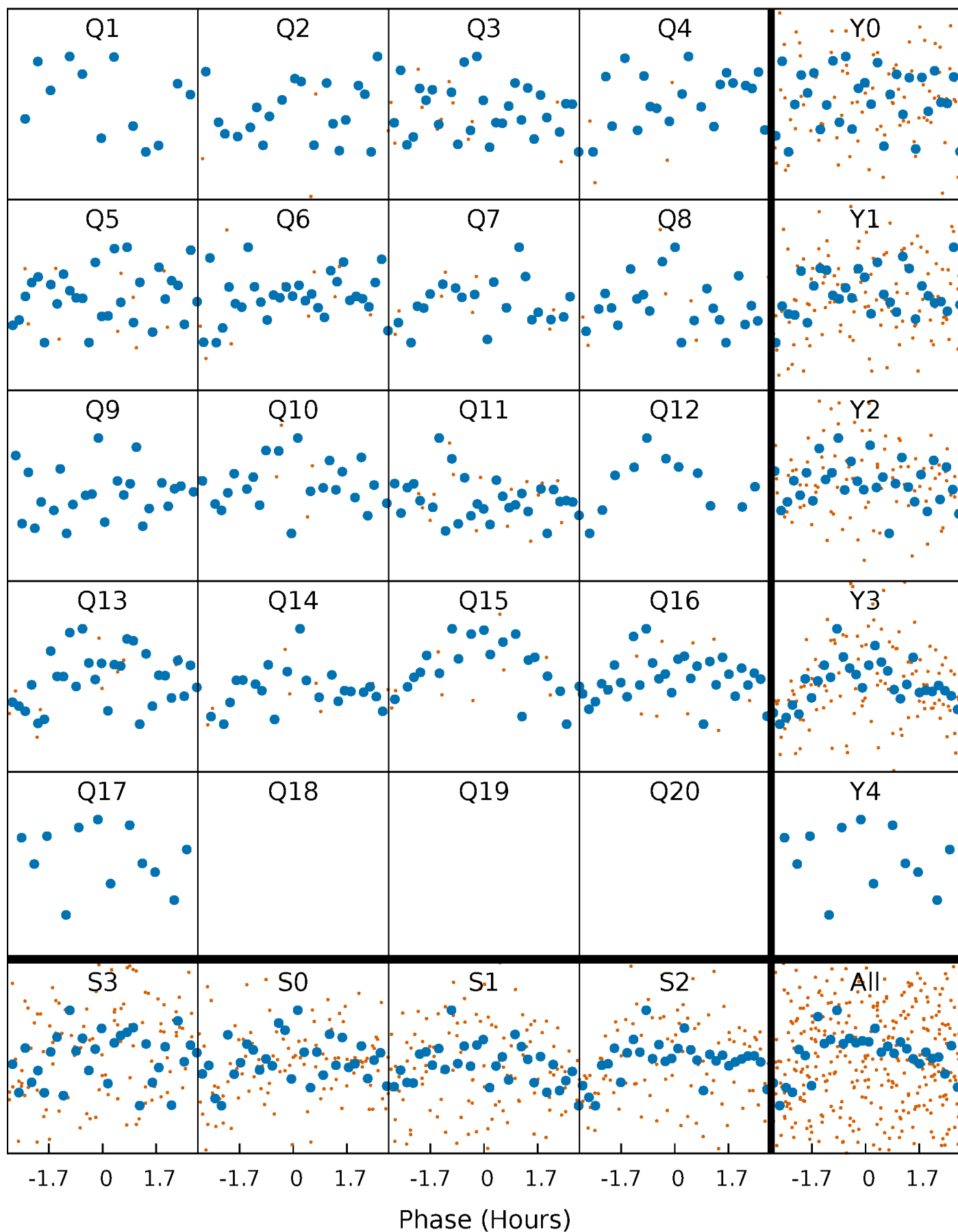


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



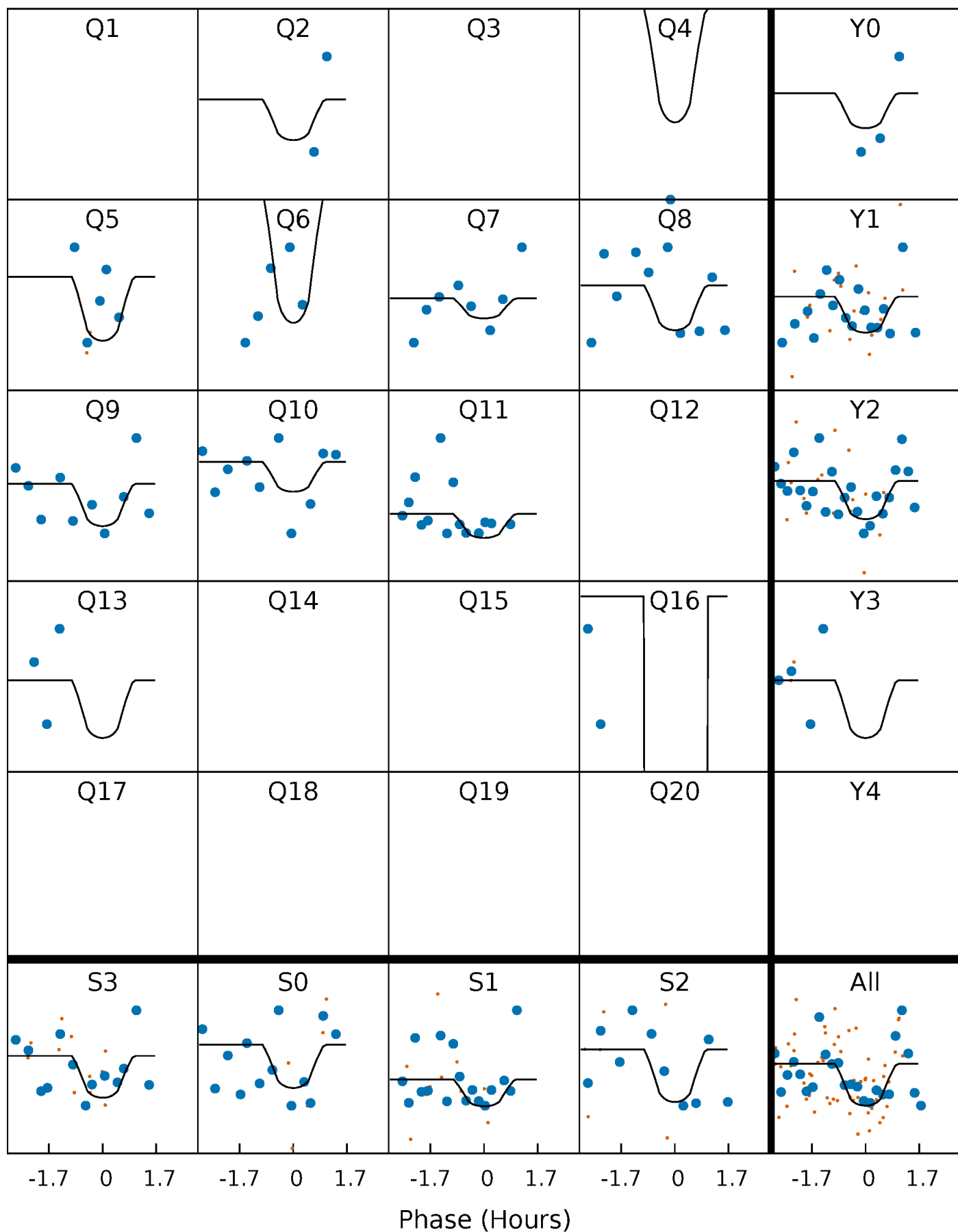
PDC Quarter-Phased Transit Curves

TCE 007198769-03 P= 35.425265 Days $T_0=162.699701$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007198769-03 P= 35.425265 Days $T_0=162.699701$ (BKJD)

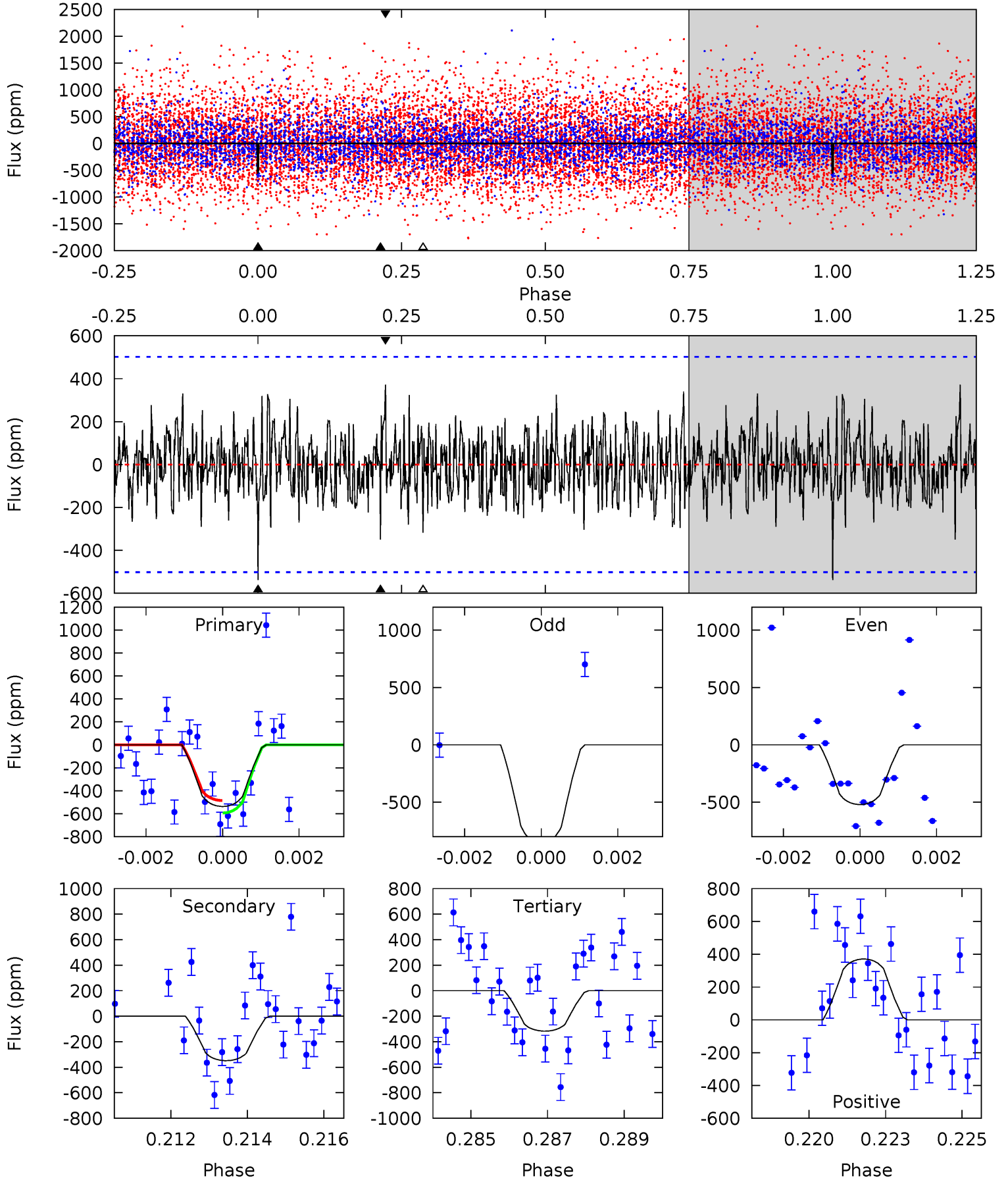


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007198769-03, P = 35.425265 Days, E = 127.274436 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.68	3.69	3.35	3.93	5.31	3.07	1.17	2.33	1.75	0.33	-0.24	0.63	1.00	0.41	0.57



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007198769

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5257^{+142}_{-158}	$4.596^{+0.030}_{-0.090}$	$-0.080^{+0.300}_{-0.300}$	$0.771^{+0.103}_{-0.069}$	$0.865^{+0.060}_{-0.103}$	$2.657^{+0.440}_{-0.800}$
	+3%/-3%	+1%/-2%	+375%/-375%	+13%/-9%	+7%/-12%	+17%/-30%
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 007198769-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-349 ± 95	$4.30^{+4.64}_{-2.90}$	643^{+24}_{-24}	3575^{+1916}_{-695}	393^{+3140}_{-310}
Alt.	N/A	N/A	N/A	N/A	N/A

T_{max} = Theoretical Maximum Planetary Temperature

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

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

DV Centroid Data

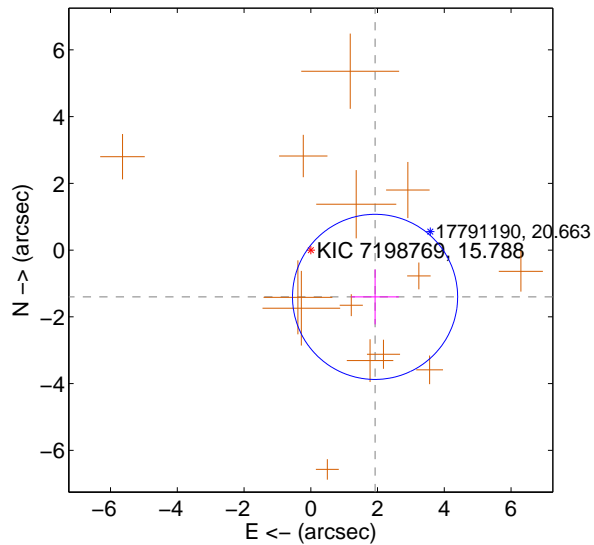
Supplemental centroid analysis for 007198769-03. Kepler magnitude: 15.79. Transit SNR 7.38

There are 0 quarters with good PRF difference image offsets

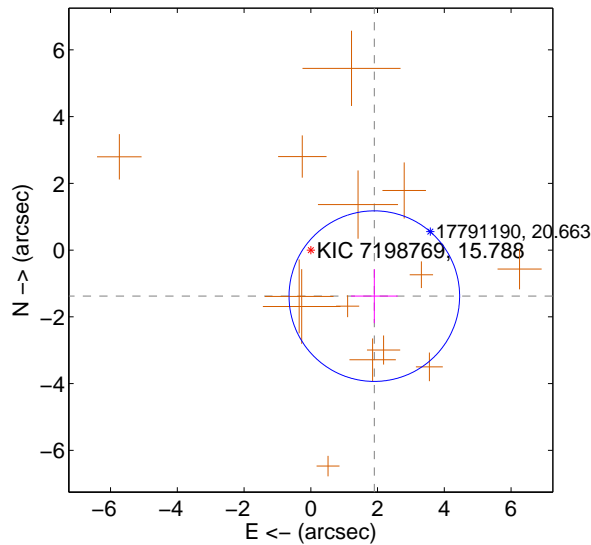
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.382 ± 0.825	2.89	-1.926 ± 0.712	-1.402 ± 0.824
PRF-fit source offset from KIC position	2.351 ± 0.852	2.76	-1.903 ± 0.699	-1.379 ± 0.809
photometric centroid source offset	1.83 ± 1.40	1.31	-1.61 ± 1.44	-0.87 ± 1.25

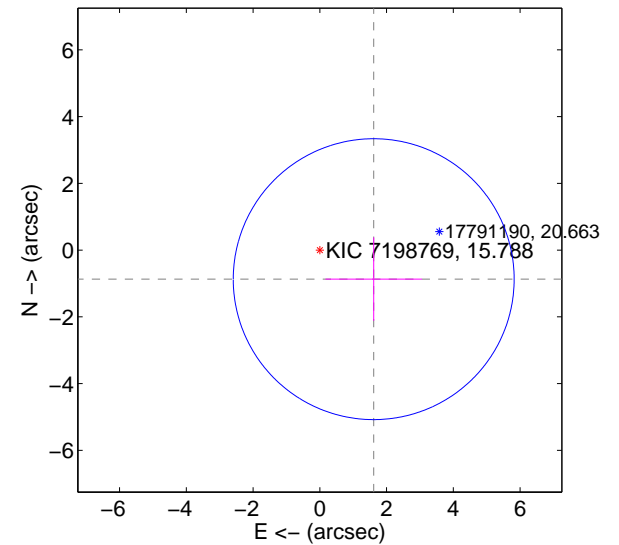
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

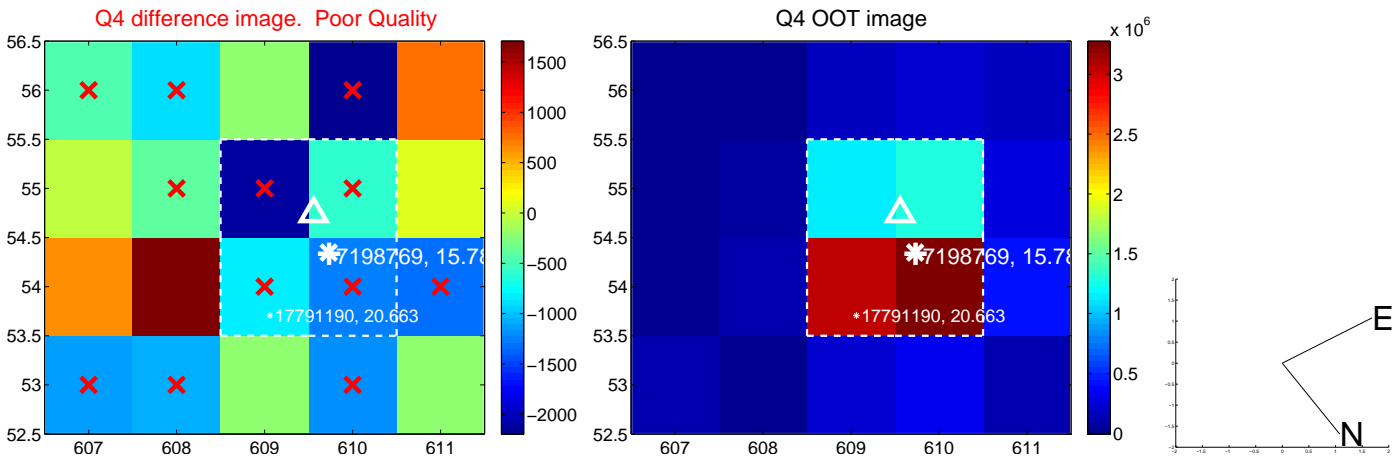
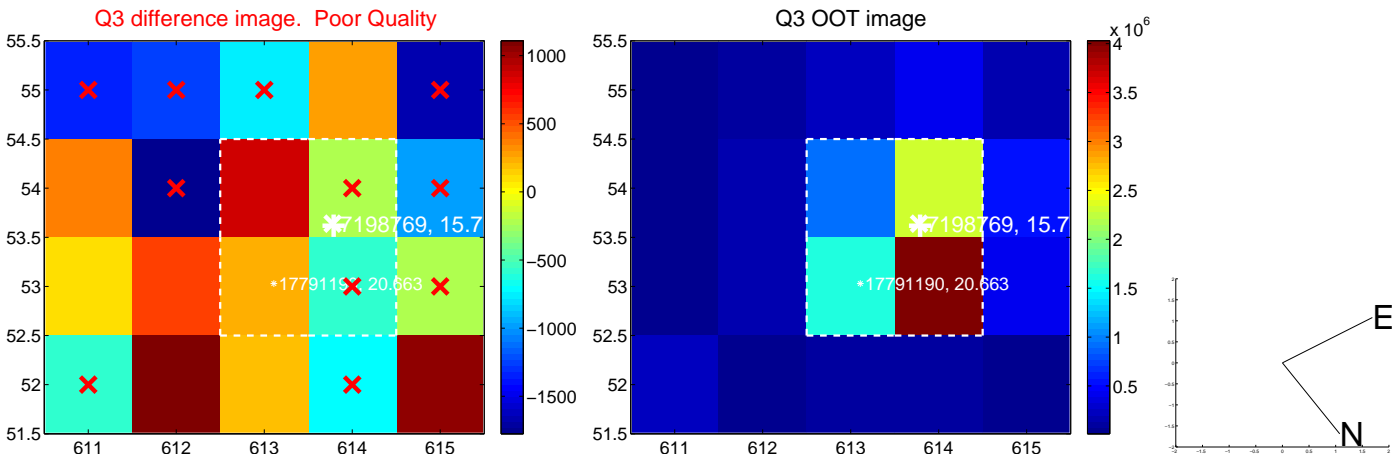
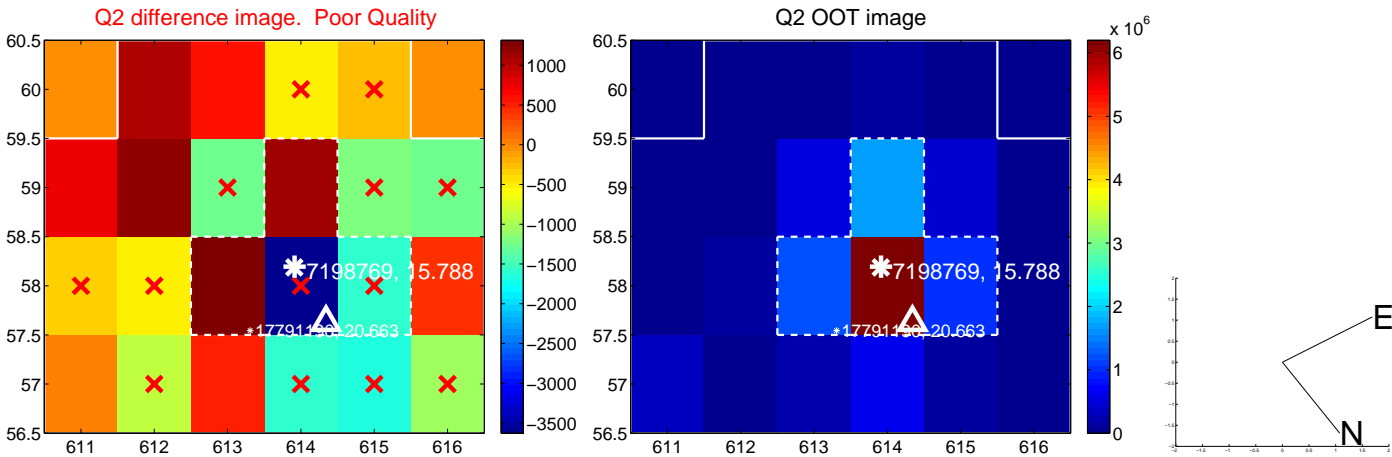
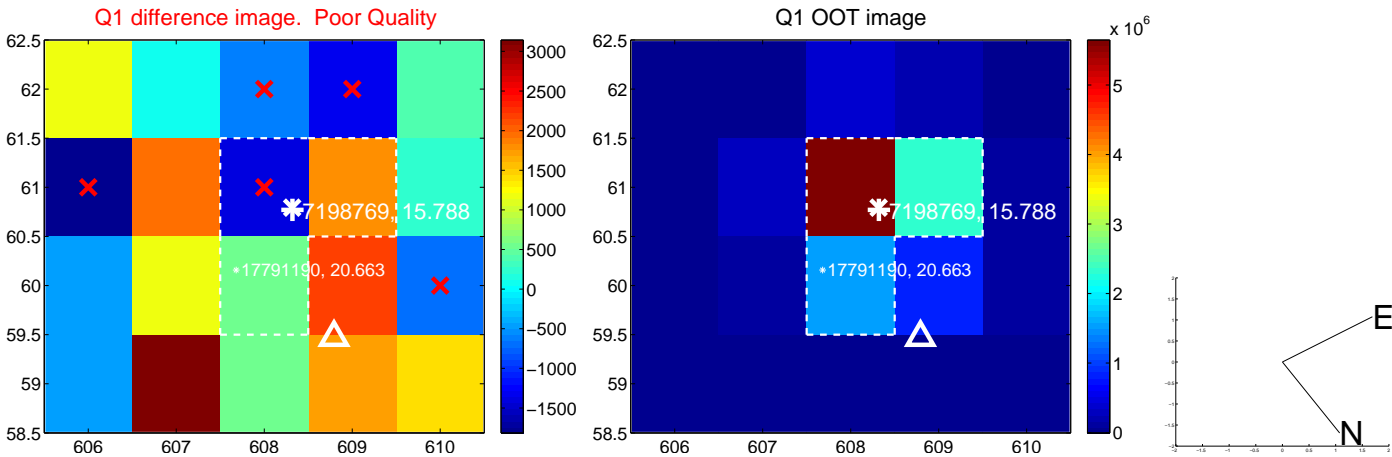


offset from photometric centroids

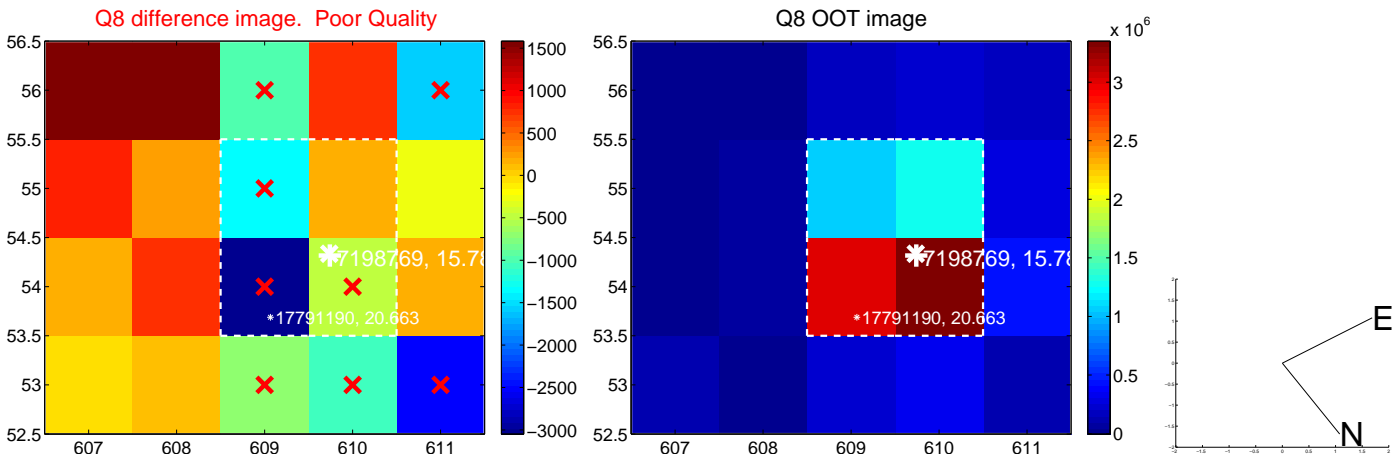
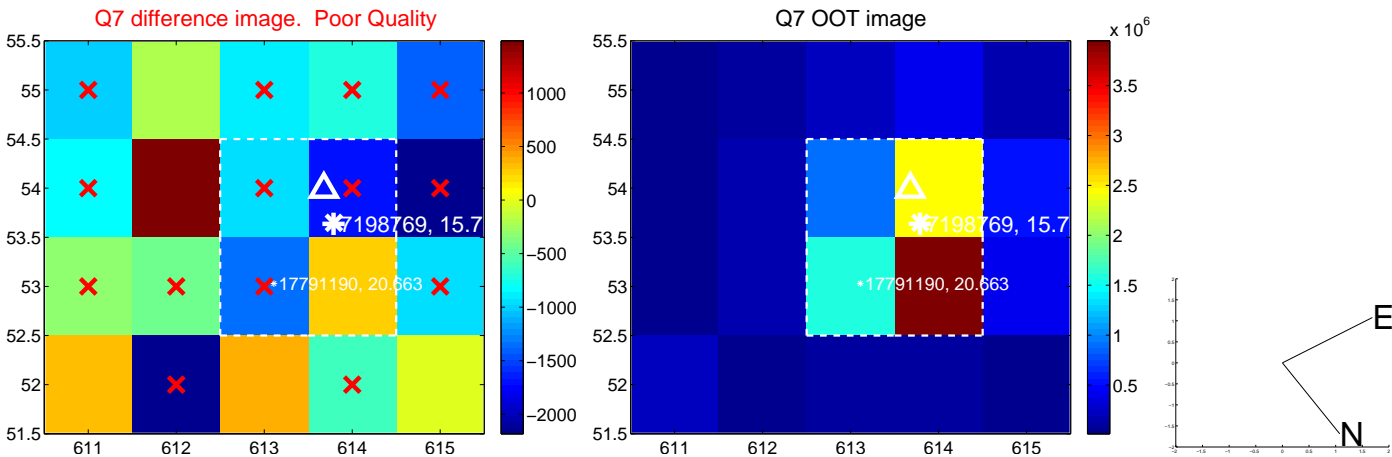
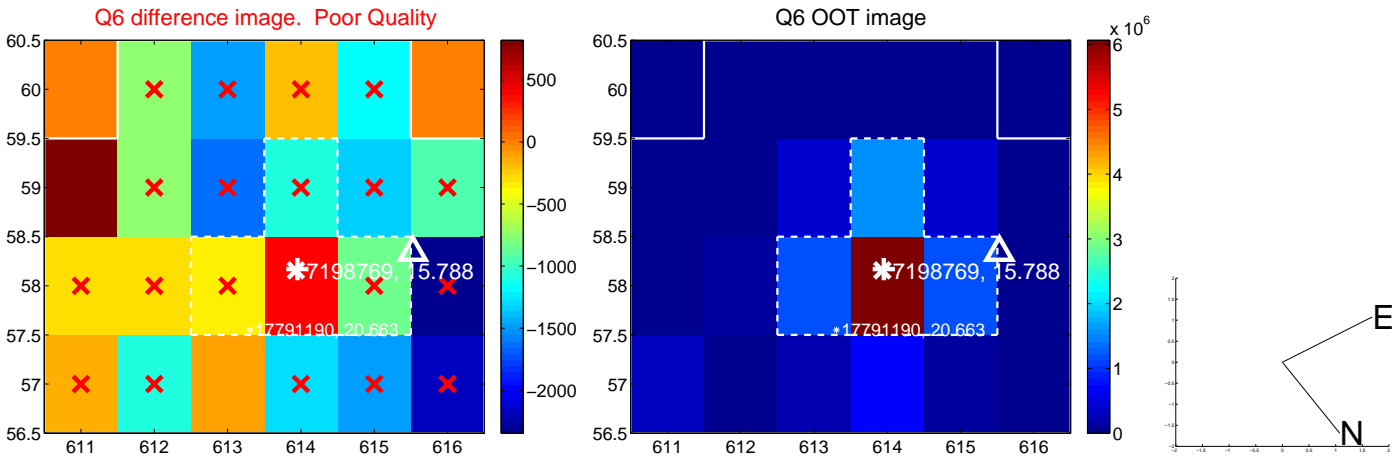
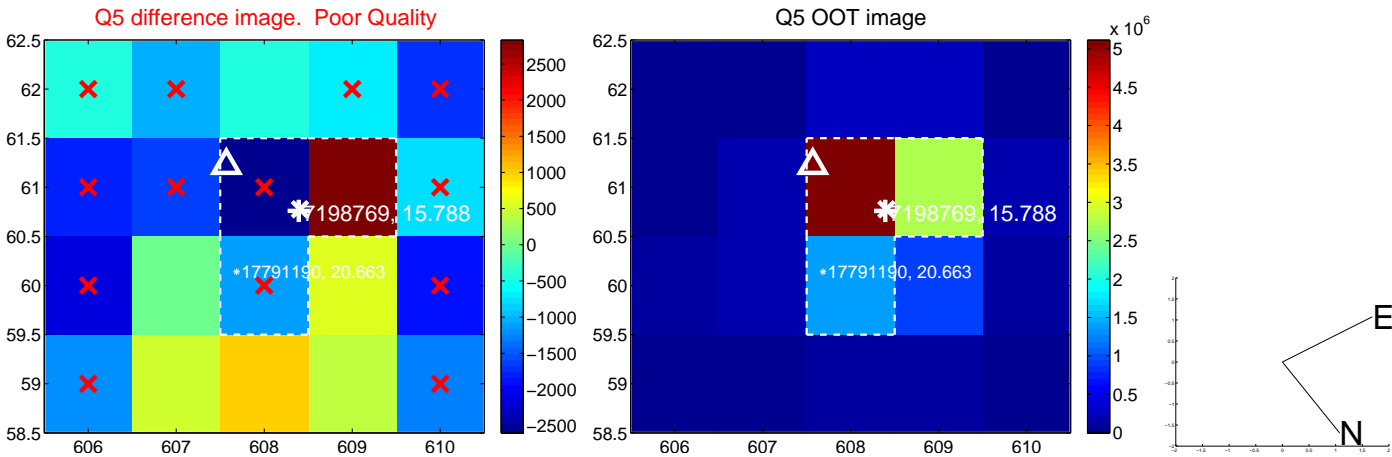


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

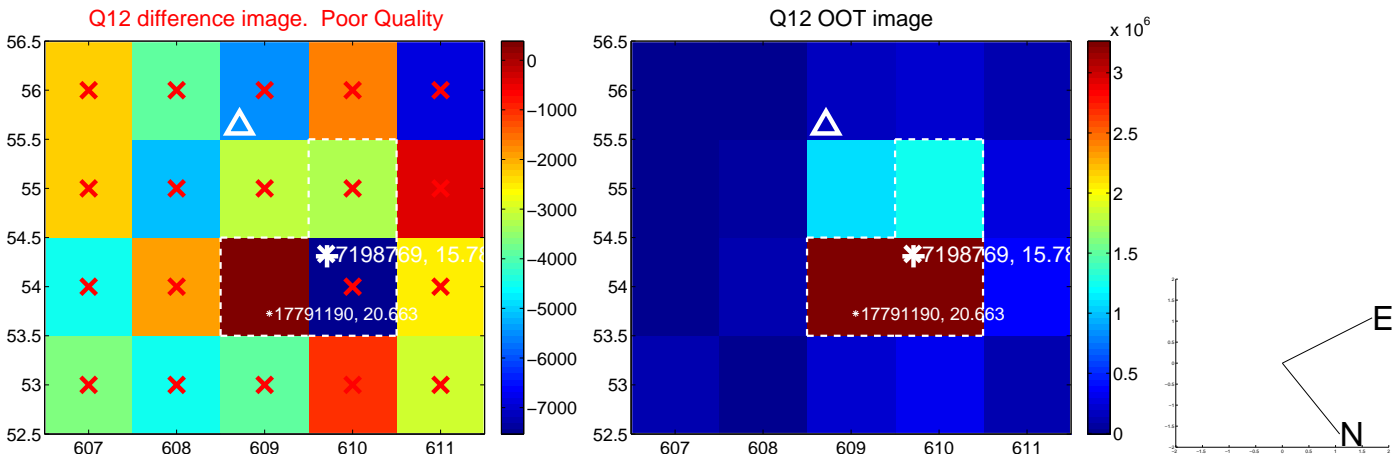
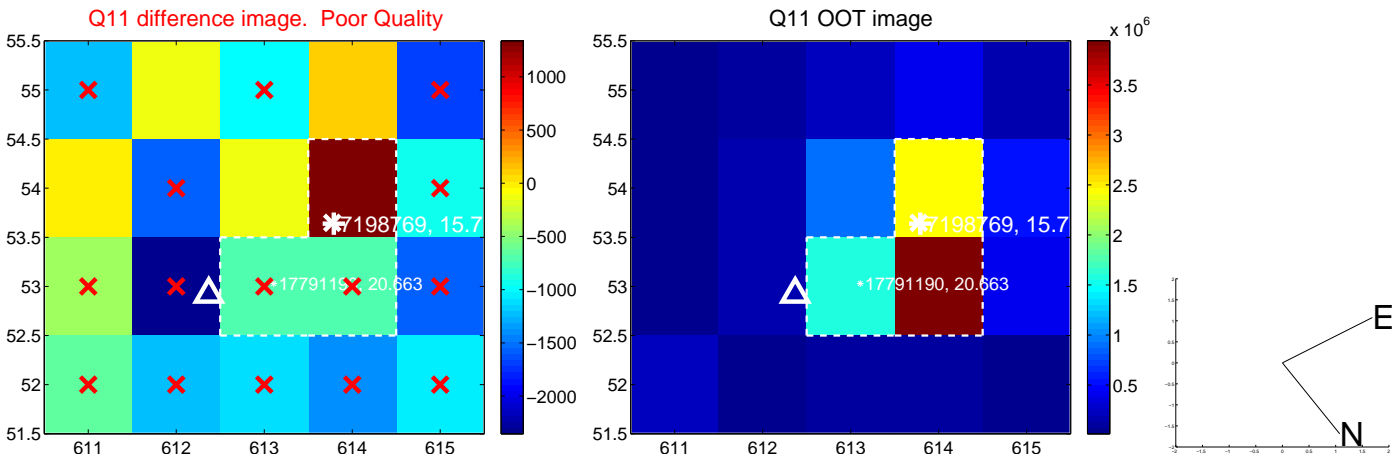
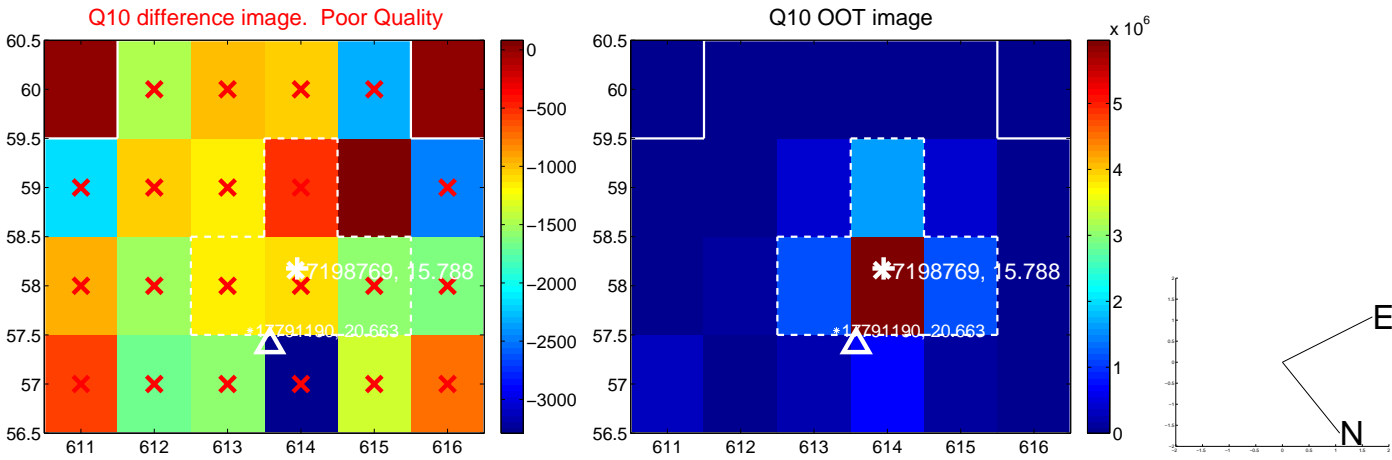
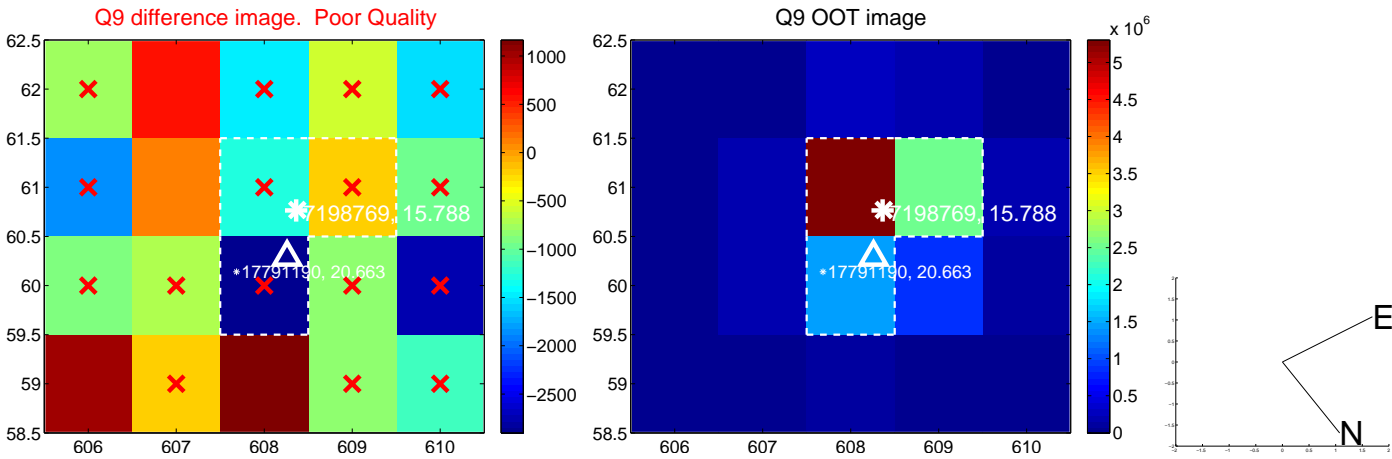
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



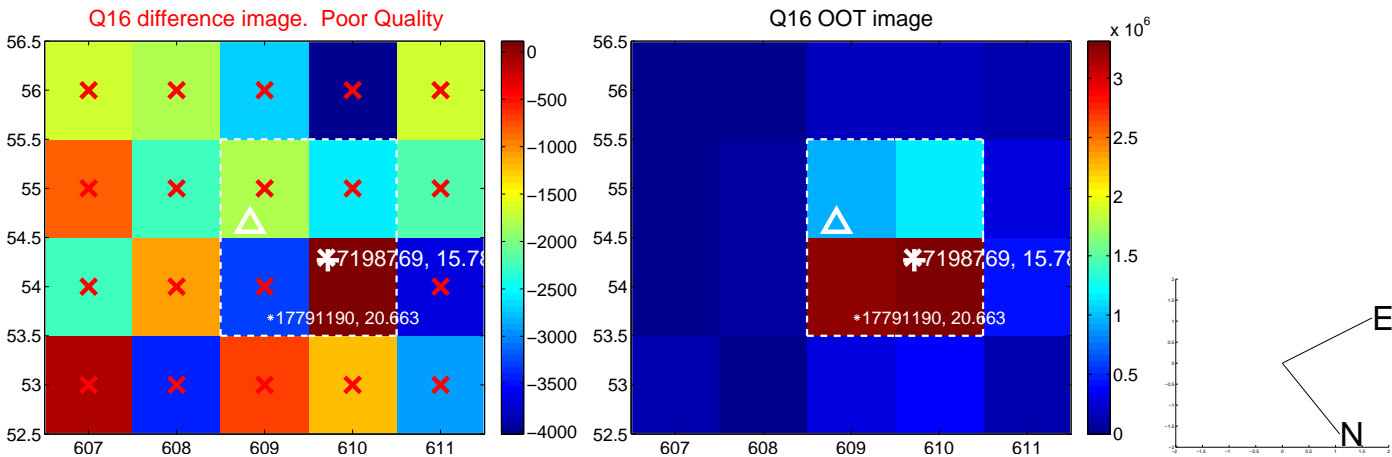
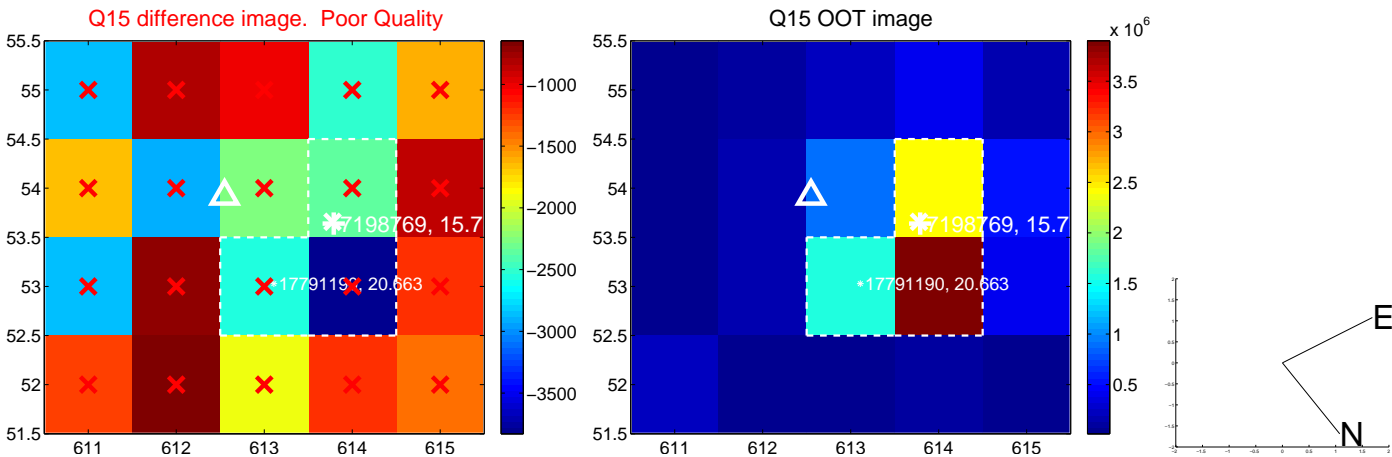
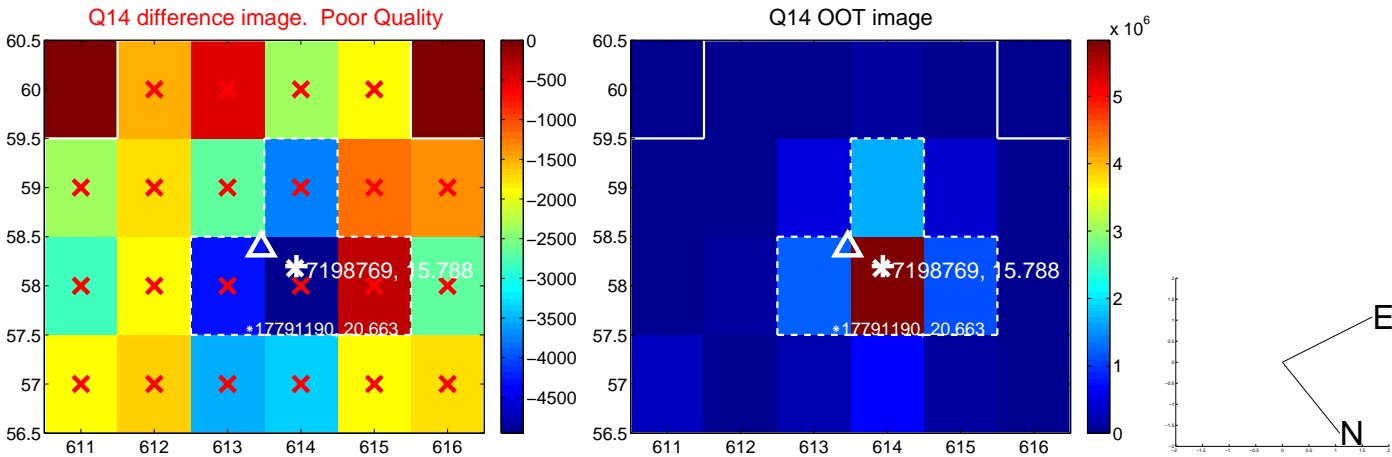
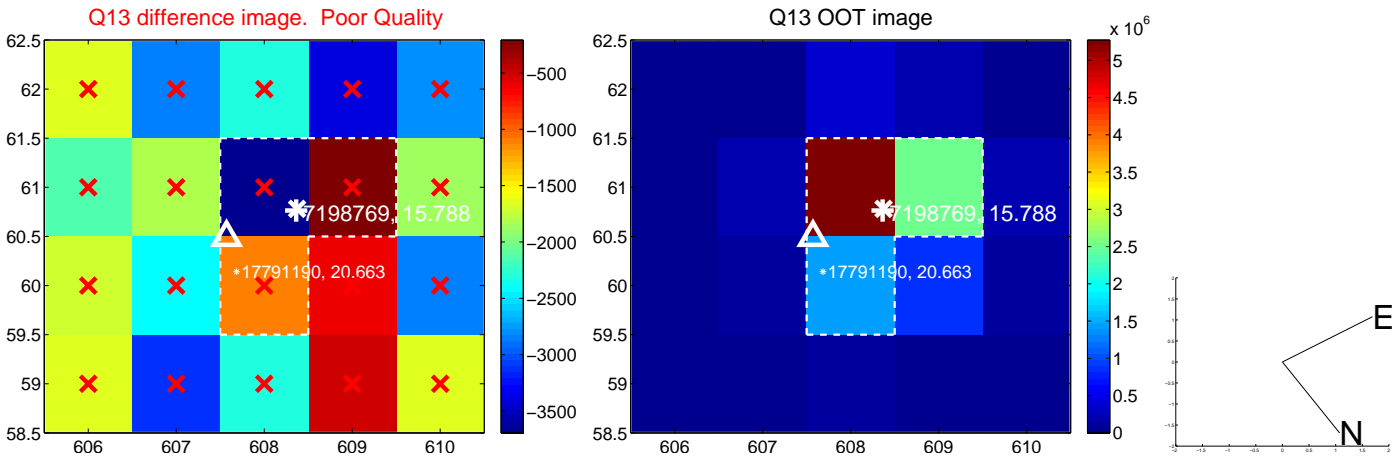
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



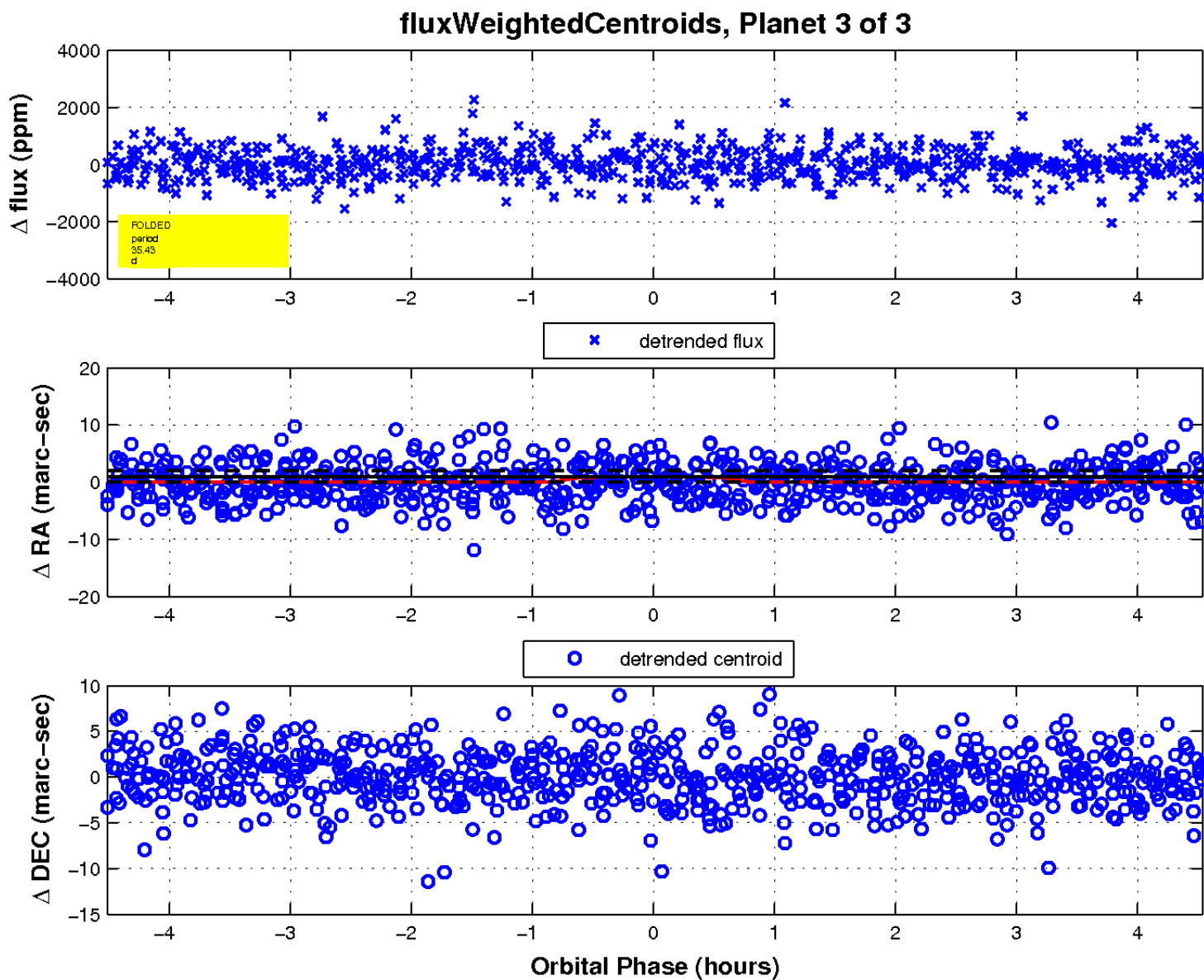
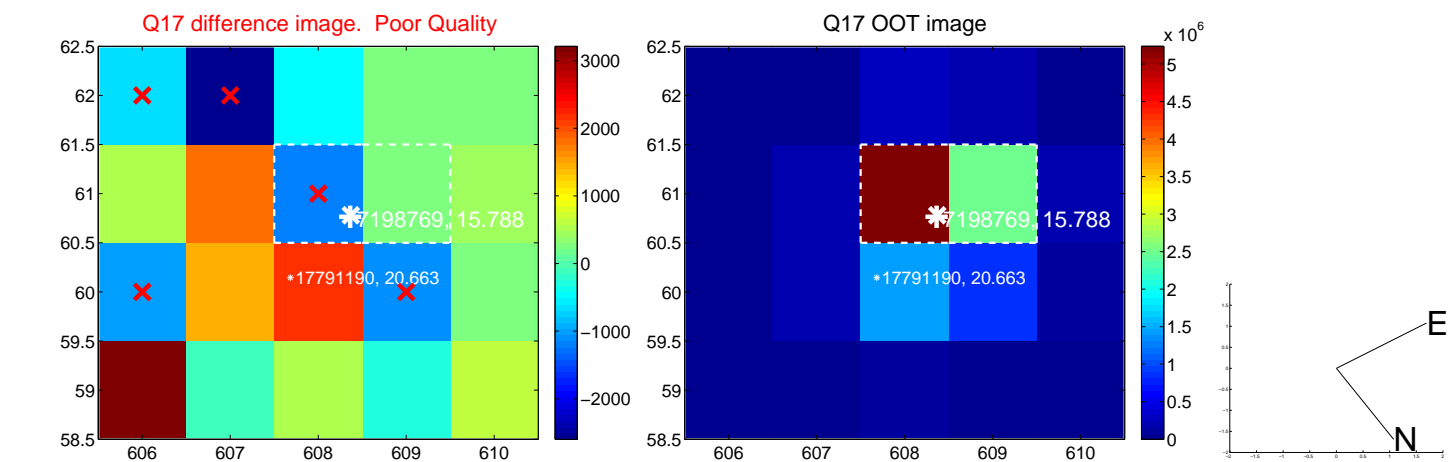
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

Declination

