

KIC 005560691

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})
005560691-01	OBS	No	0.740069	131.971089	566.1	1.104	10.7	8.7	1.31	6609	3.64	10132.13
005560691-02	OBS	No	0.740083	131.886011	1677.7	3.320	13.8	19.2	1.31	6609	6.27	10131.89
005560691-03	OBS	No	0.740071	131.598494	224.2	1.500	19.0	-1.0	1.31	6609	1.98	10132.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005560691-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
005560691-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS
005560691-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

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

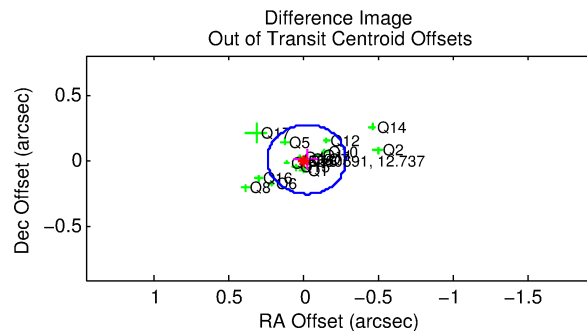
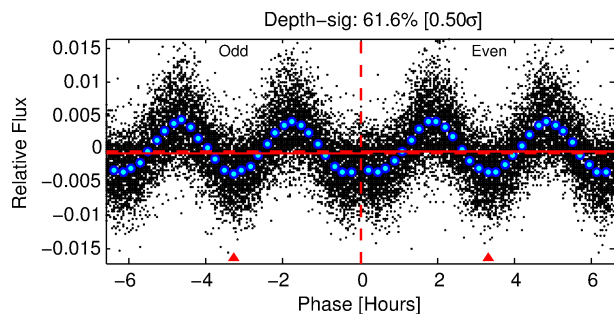
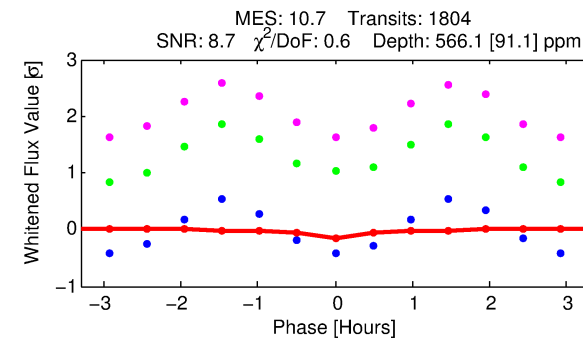
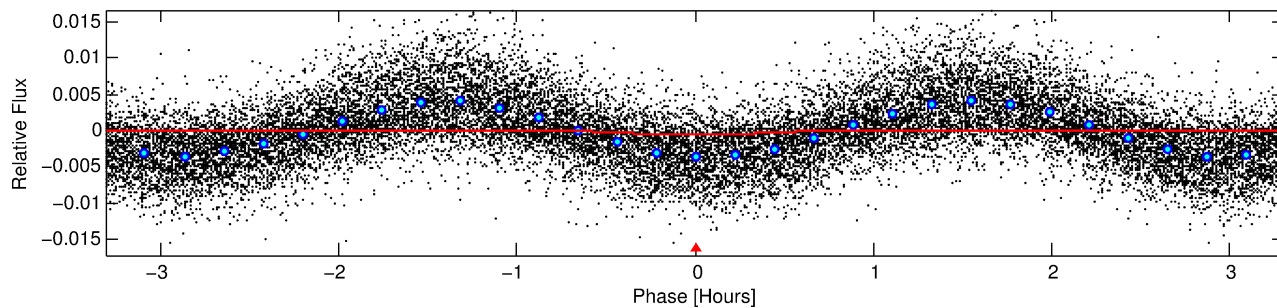
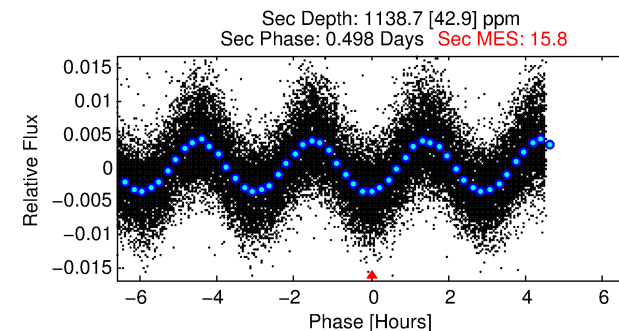
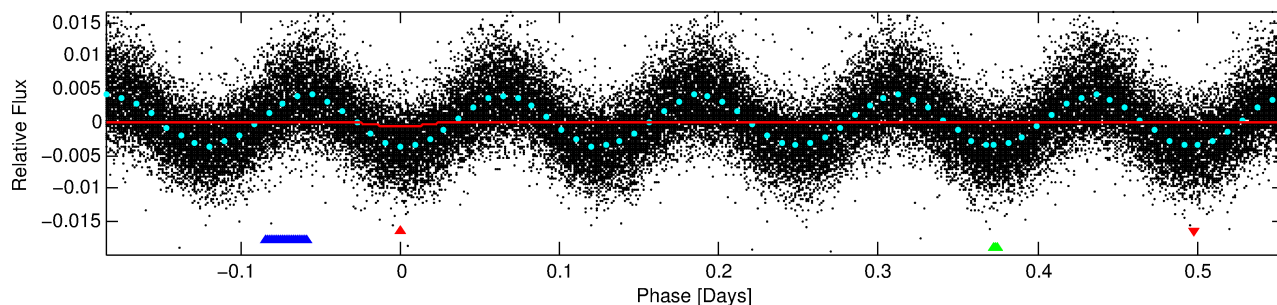
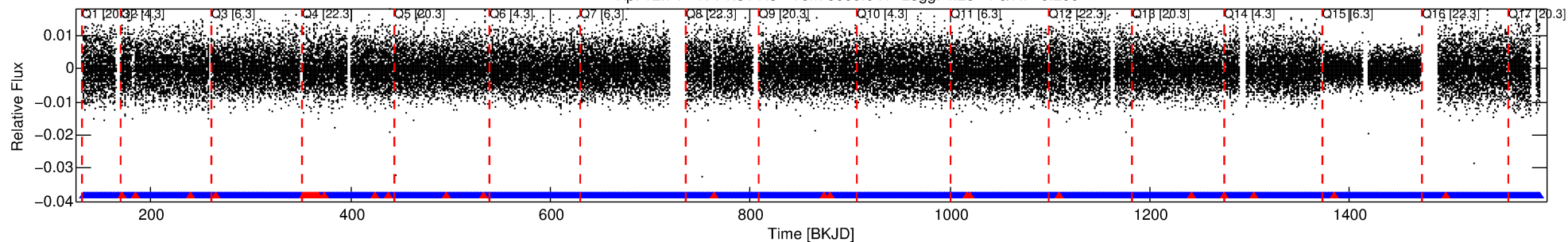
Ephemeris Match Information For 005560691-01

No Significant Match Found

DV One-Page Summary

KIC: 5560691 Candidate: 1 of 3 Period: 0.740 d

Kp: 12.74 R*: 1.31 Rs Teff: 6609.0 K Logg: 4.28 Fe/H: -0.200



DV Fit Results:

Period = 0.74007 [0.00001] d
Epoch = 131.9711 [0.0019] BKJD
Rp/R* = 0.0255 [0.0141]
a/R* = 2.74 [7.28]
b = 0.89 [0.70]
Seff = 10132.13 [3876.08]
Teq = 2558 [245] K
Rp = 3.64 [2.29] Re
a = 0.0170 [0.0042] AU
Ag = 13.64 [15.86] [0.80σ]
Teff = 7601 [2115] K [2.37σ]

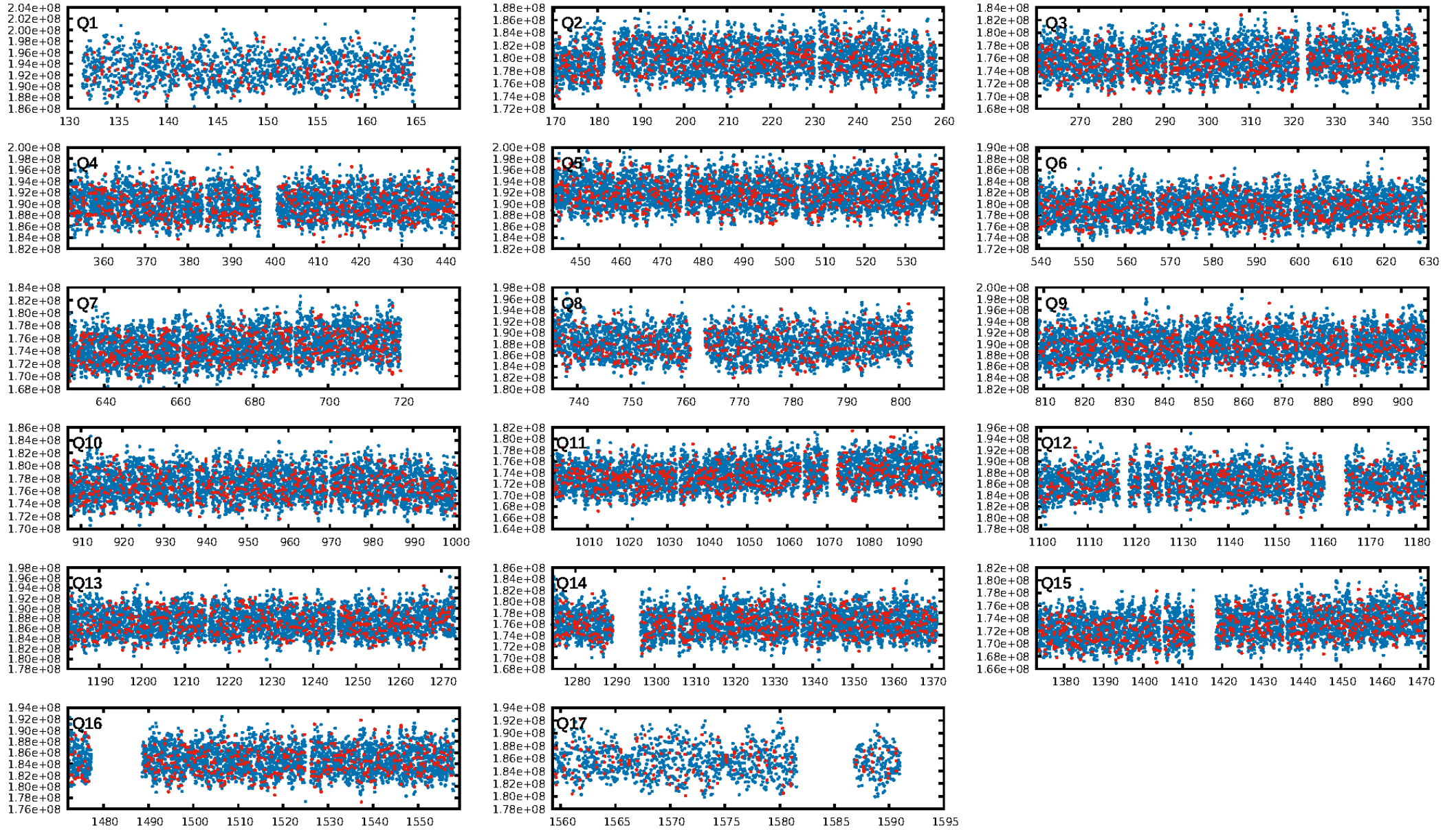
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.98 [1685/1723]
GhostDiagnostic-chr: -0.2879
Centroid-sig: 0.1%
Centroid-so: 0.146 arcsec [2.40σ]
OotOffset-rm: 0.029 arcsec [0.33σ]
KicOffset-rm: 0.075 arcsec [0.91σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.94 [16/17]
DiffImageOverlap-fno: 0.00 [0/17]

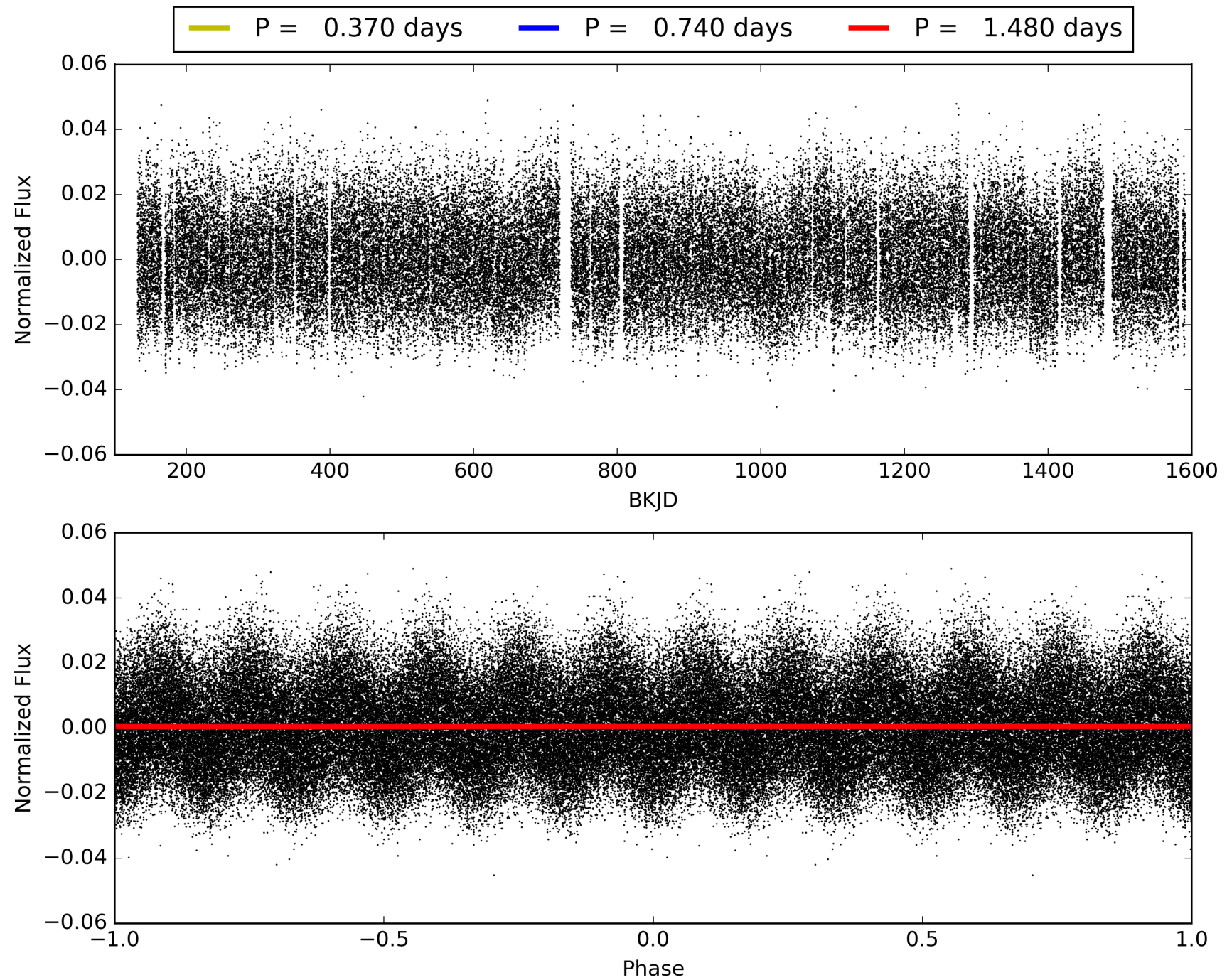
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 16:37:21 Z

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

TCE 005560691-01, PDC Light Curves

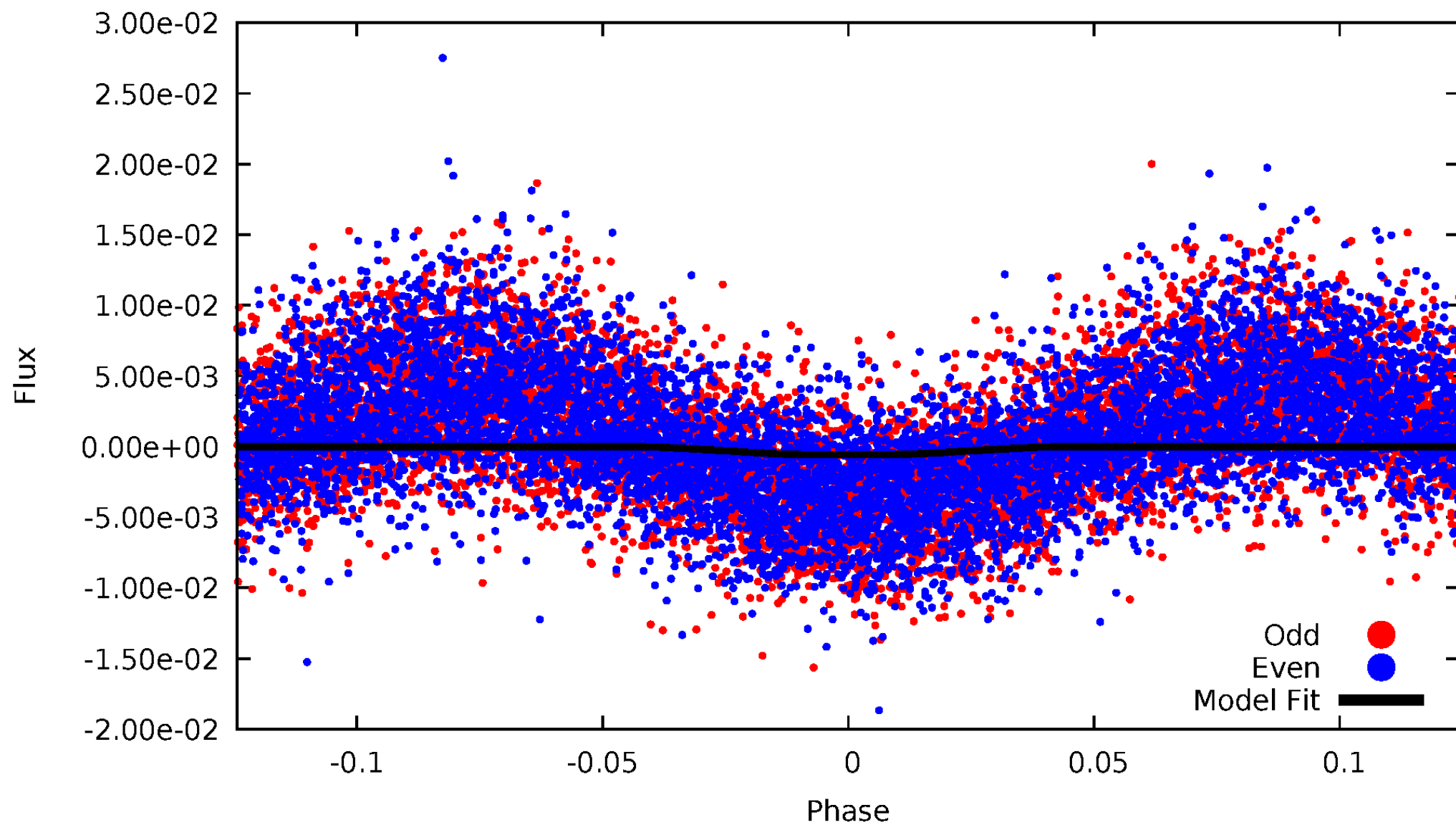


TCE 005560691-01



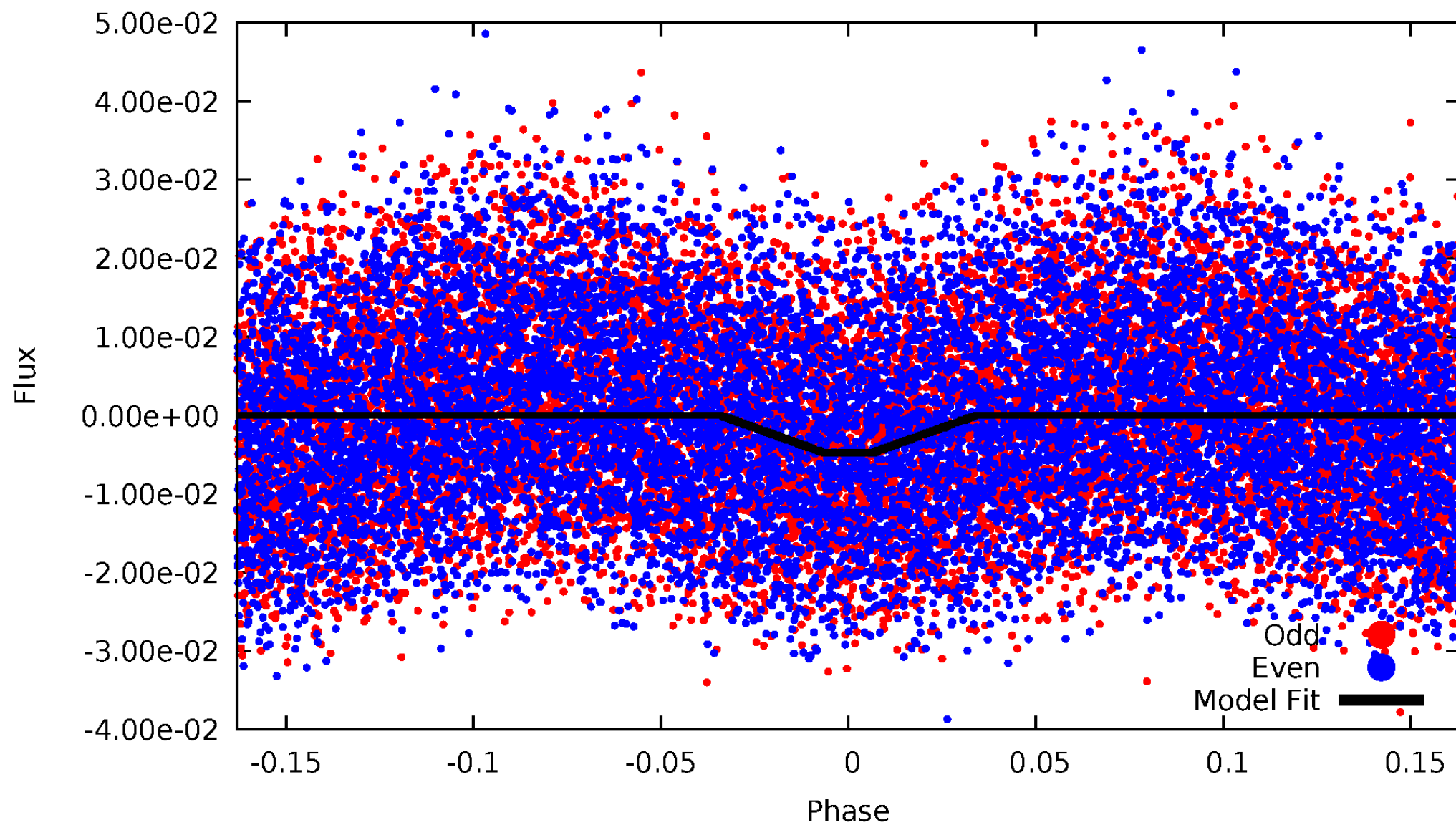
DV Odd/Even

TCE 005560691-01



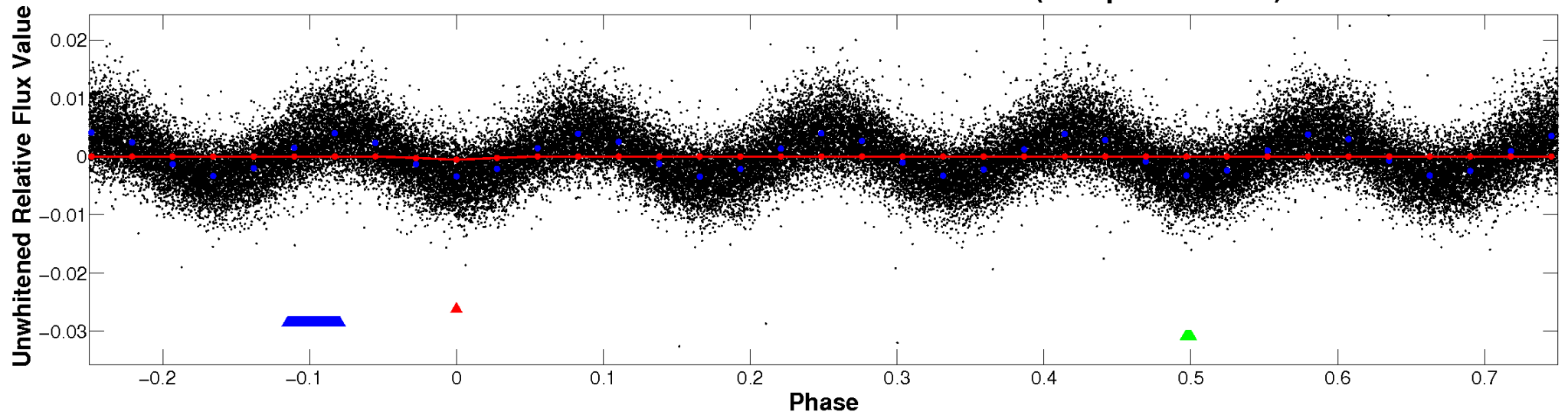
ALT Odd/Even

TCE 005560691-01

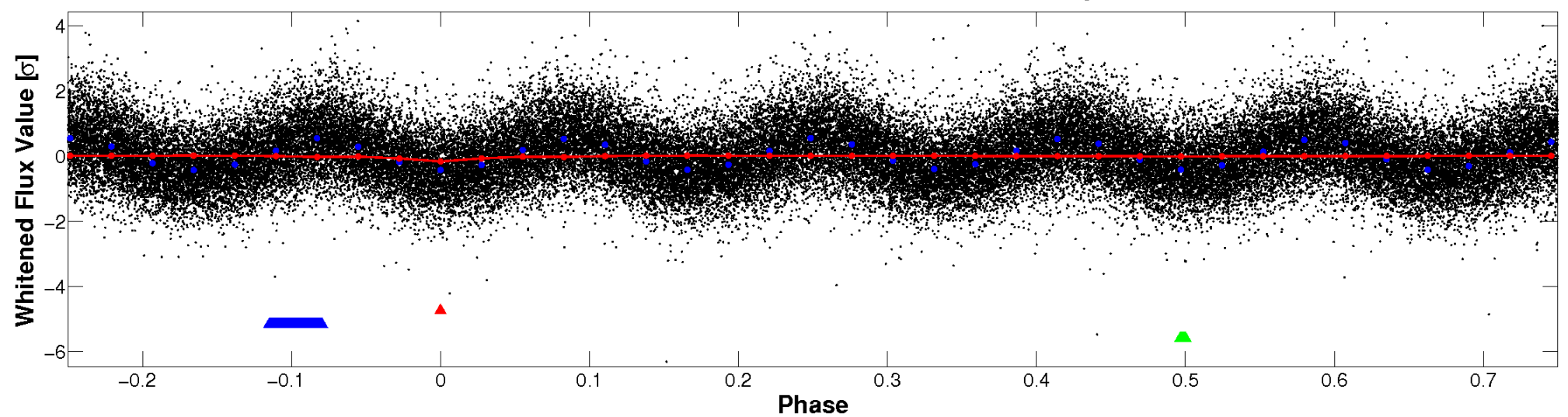


Non-Whitened Vs. Whitened Light Curve

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

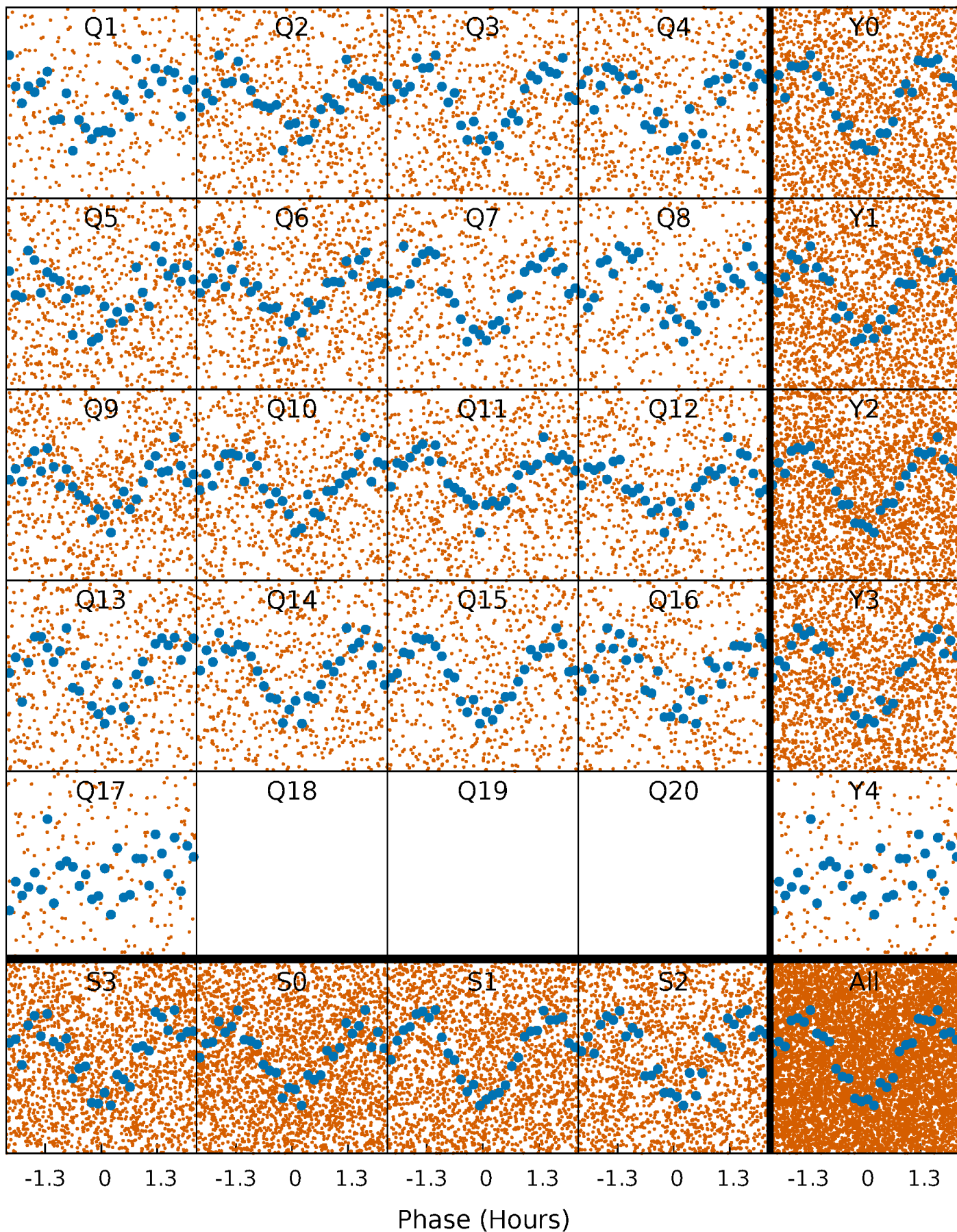


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



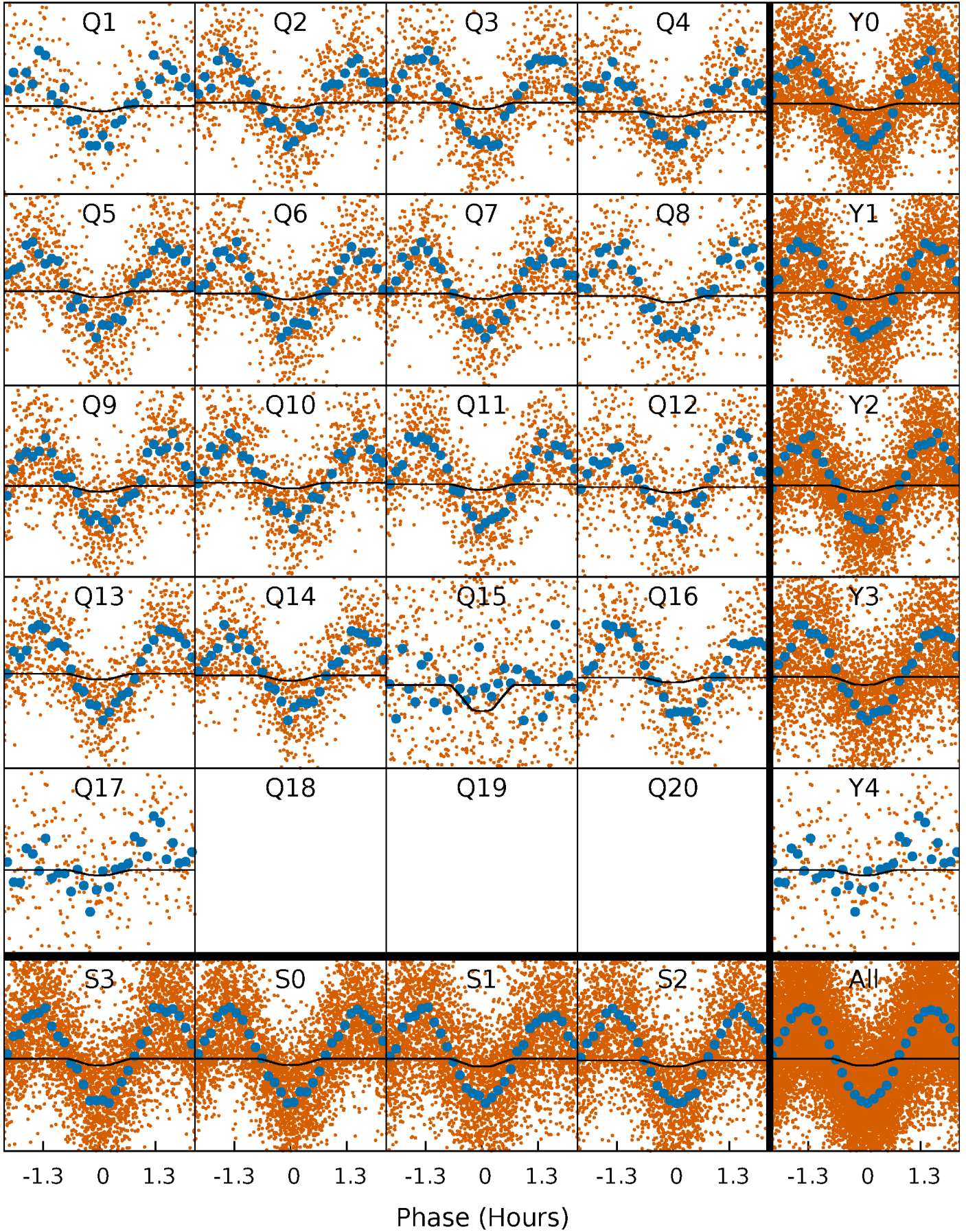
PDC Quarter-Phased Transit Curves

TCE 005560691-01 P= 0.740069 Days $T_0=131.971089$ (BKJD)



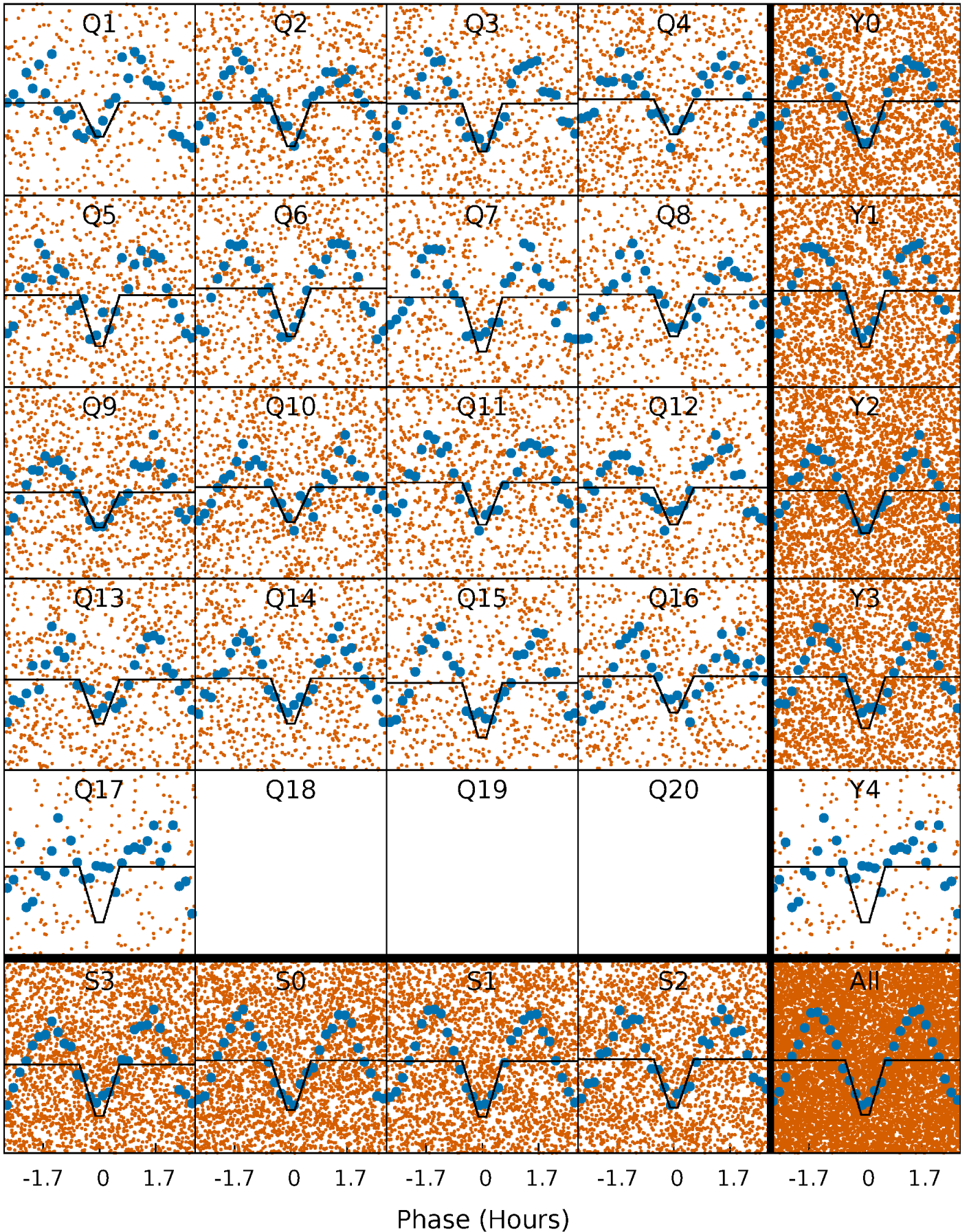
DV Quarter-Phased Transit Curves

TCE 005560691-01 P= 0.740069 Days $T_0=131.971089$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

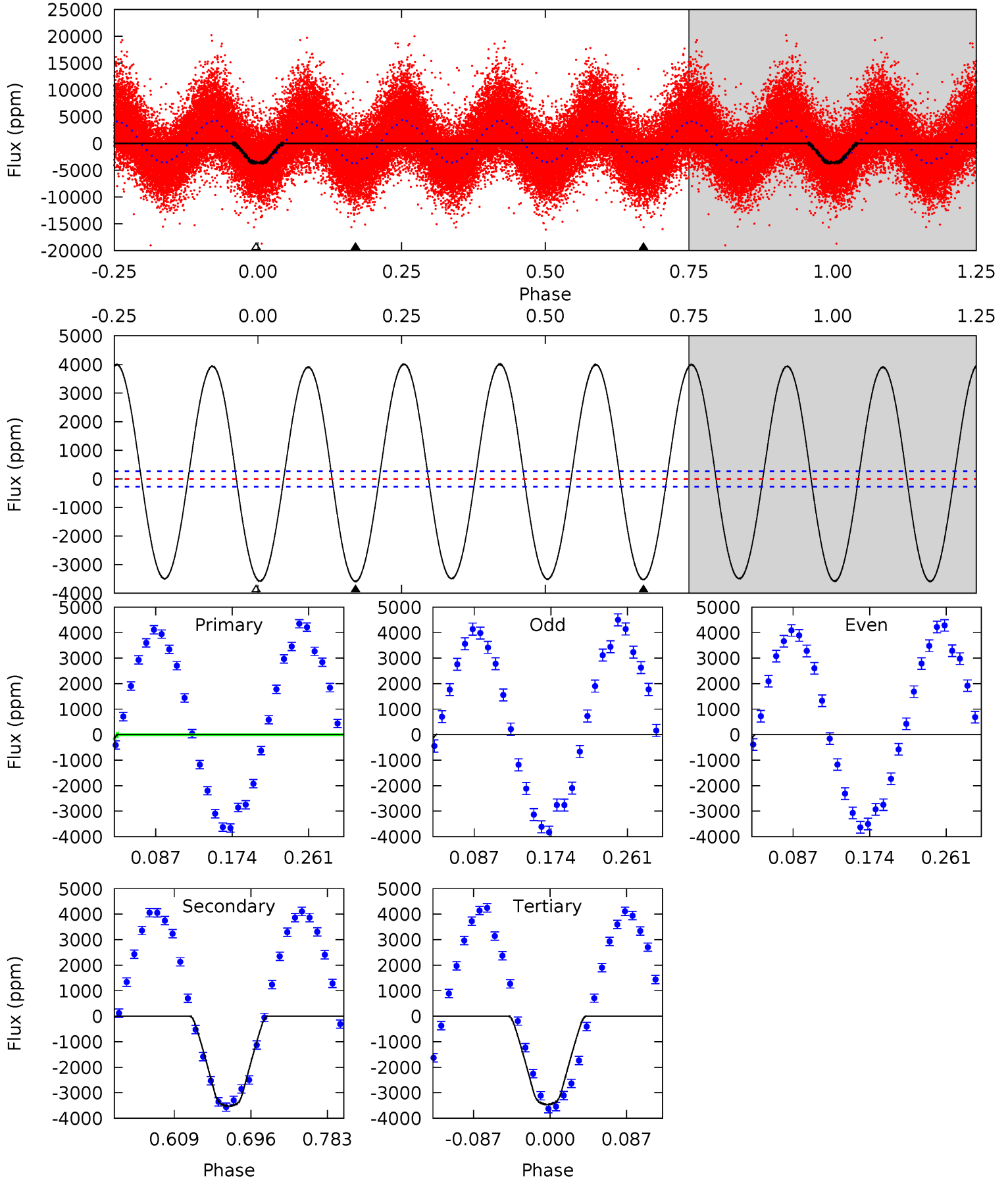
TCE 005560691-01 P= 0.740065 Days $T_0=131.977551$ (BKJD)



DV Model-Shift Uniqueness Test

005560691-01, P = 0.740069 Days, E = 131.231020 Days

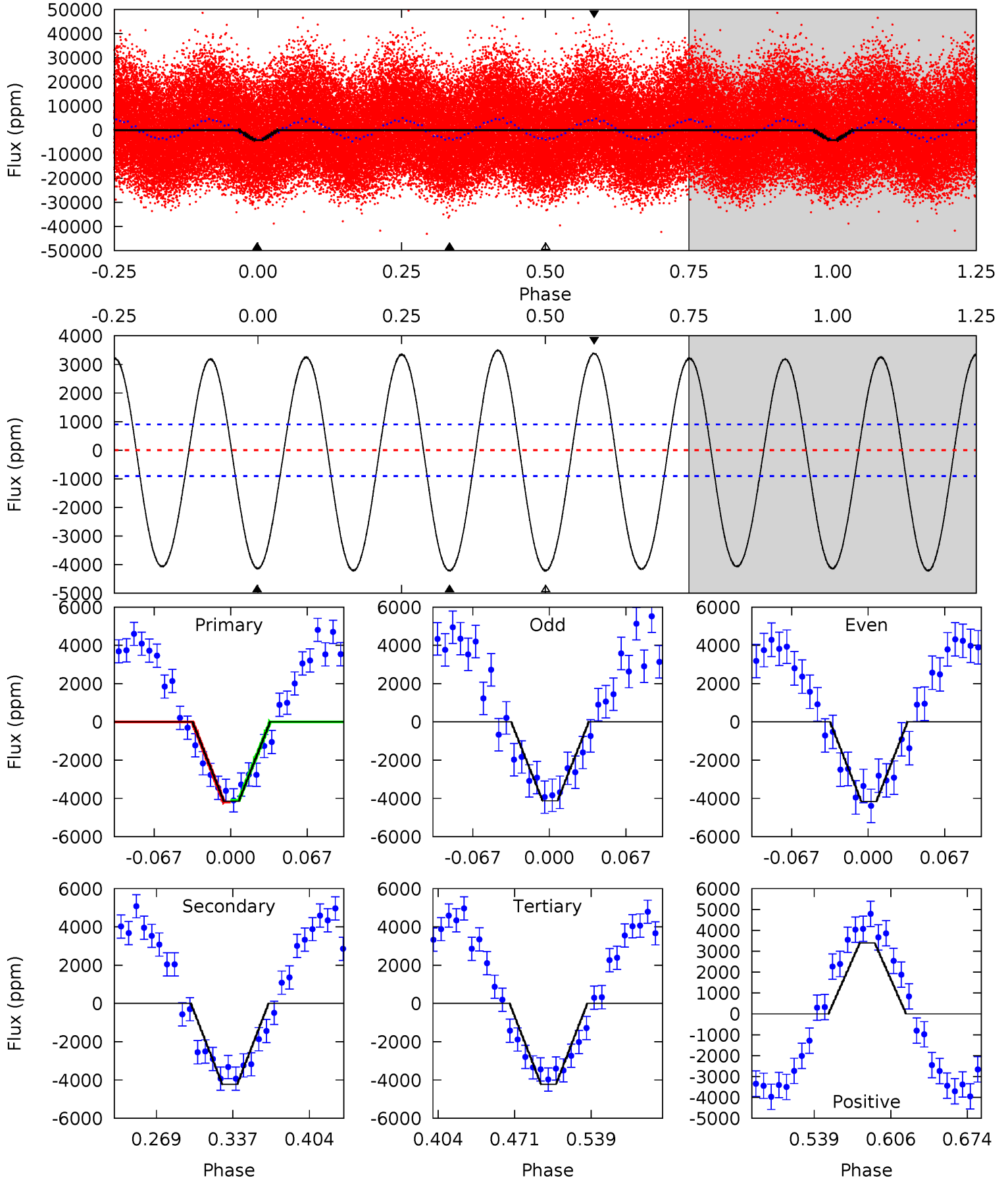
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
60.8	59.7	58.7	0	4.59	1.71	44.4	2.17	60.8	1.05	59.7	0.69	1.03	0.53	4.79



Alt Model-Shift Uniqueness Test

005560691-01, P = 0.740065 Days, E = 131.237486 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.3	21.7	21.7	17.4	4.65	1.83	14.0	-0.41	3.83	0.01	4.26	0.09	0.86	0.45	0.25



Stellar Parameters For KIC 005560691

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6609^{+149}_{-216}	$4.282^{+0.105}_{-0.195}$	$-0.200^{+0.250}_{-0.300}$	$1.309^{+0.391}_{-0.210}$	$1.202^{+0.187}_{-0.170}$	$0.754^{+0.370}_{-0.376}$
	+2%/-3%	+2%/-5%	+125%/-150%	+30%/-16%	+16%/-14%	+49%/-50%
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 005560691-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-3518 ± 59	$3.81^{+2.28}_{-1.90}$	3611^{+264}_{-197}	11183^{+10058}_{-3074}	38^{+114}_{-23}
Alt.	-4224 ± 195	$10.12^{+2.54}_{-2.25}$	3599^{+254}_{-201}	6288^{+915}_{-579}	$6.584^{+4.235}_{-2.396}$

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 $A_{obs} \gg 1.0$

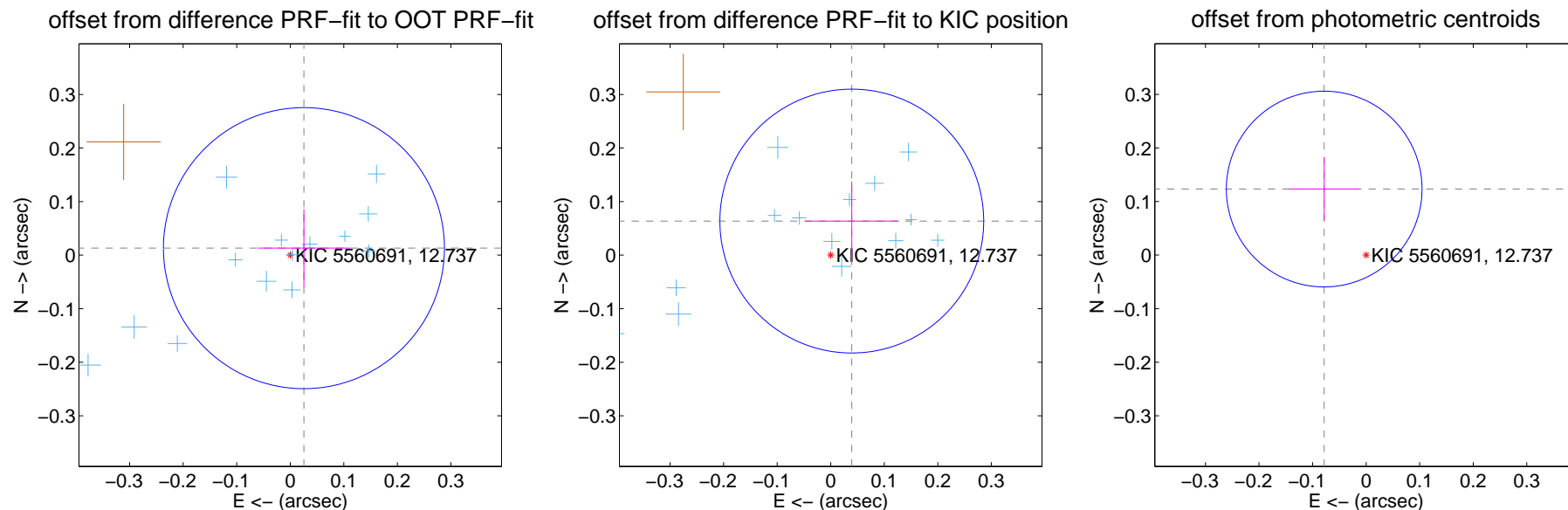
DV Centroid Data

Supplemental centroid analysis for 005560691-01. Kepler magnitude: 12.74. Transit SNR 8.66

There are 16 quarters with good PRF difference image offsets

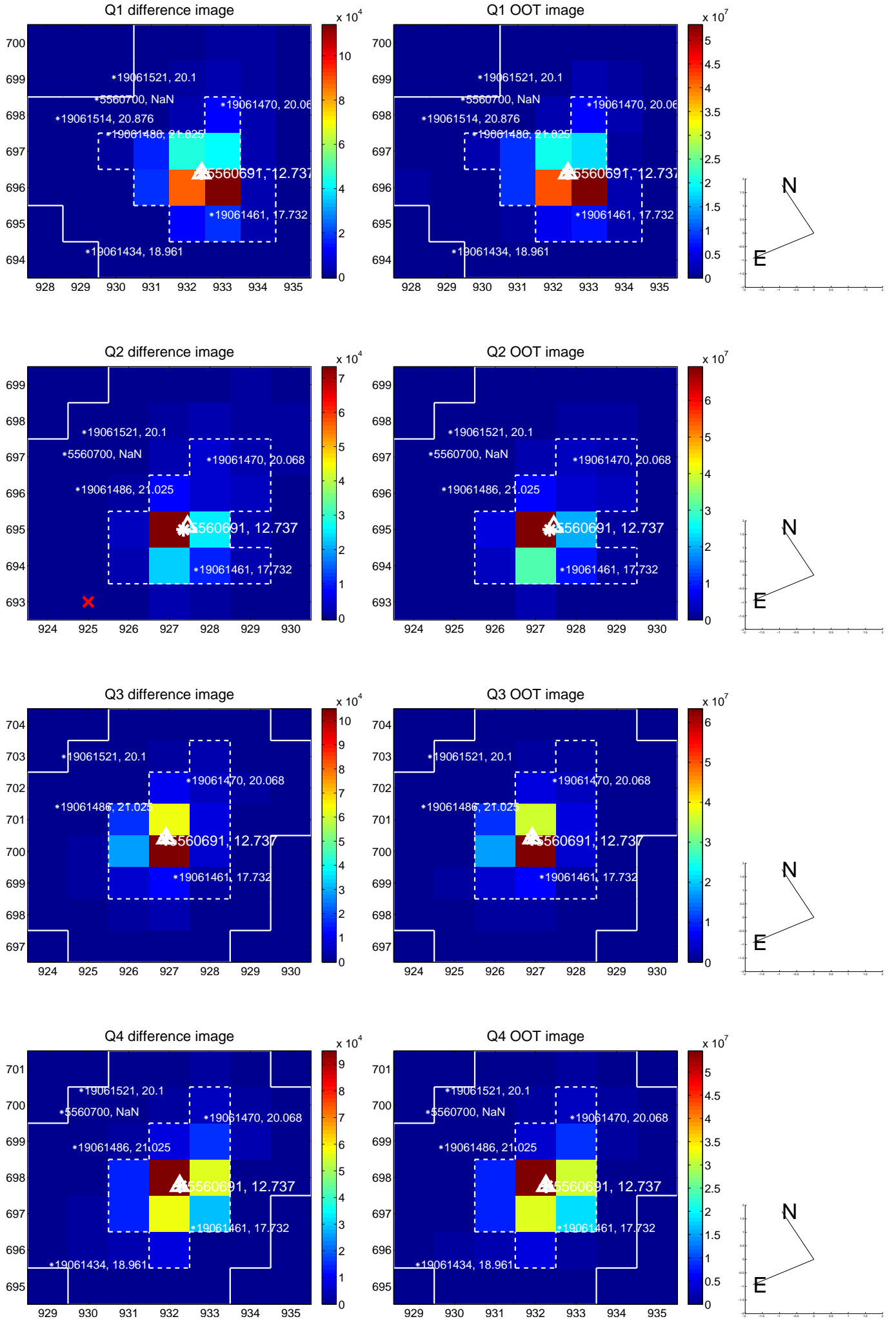
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.029 ± 0.087	0.33	-0.026 ± 0.086	0.013 ± 0.073
PRF-fit source offset from KIC position	0.075 ± 0.082	0.91	-0.039 ± 0.087	0.064 ± 0.073
photometric centroid source offset	0.15 ± 0.06	2.40	0.08 ± 0.07	0.12 ± 0.06

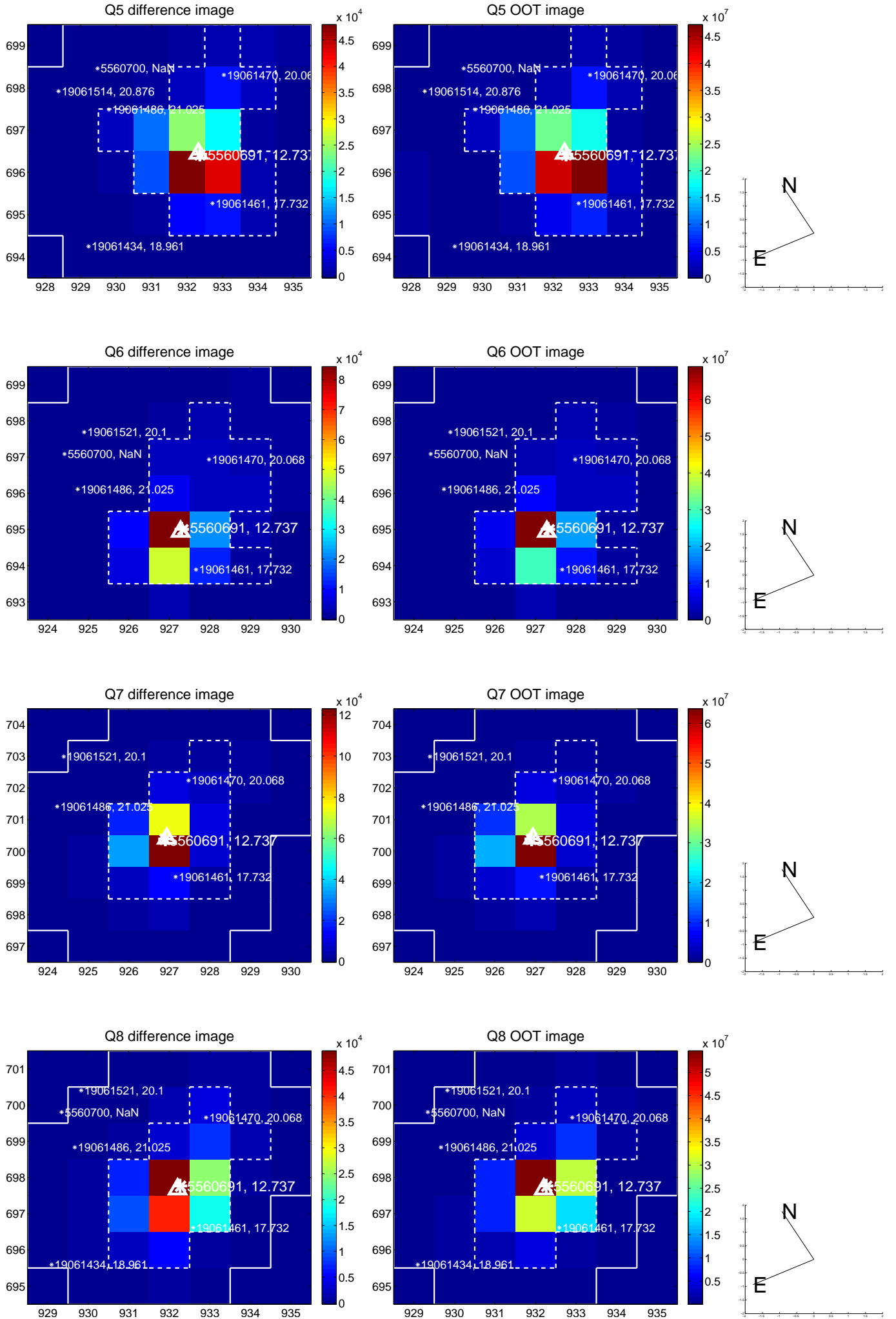


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

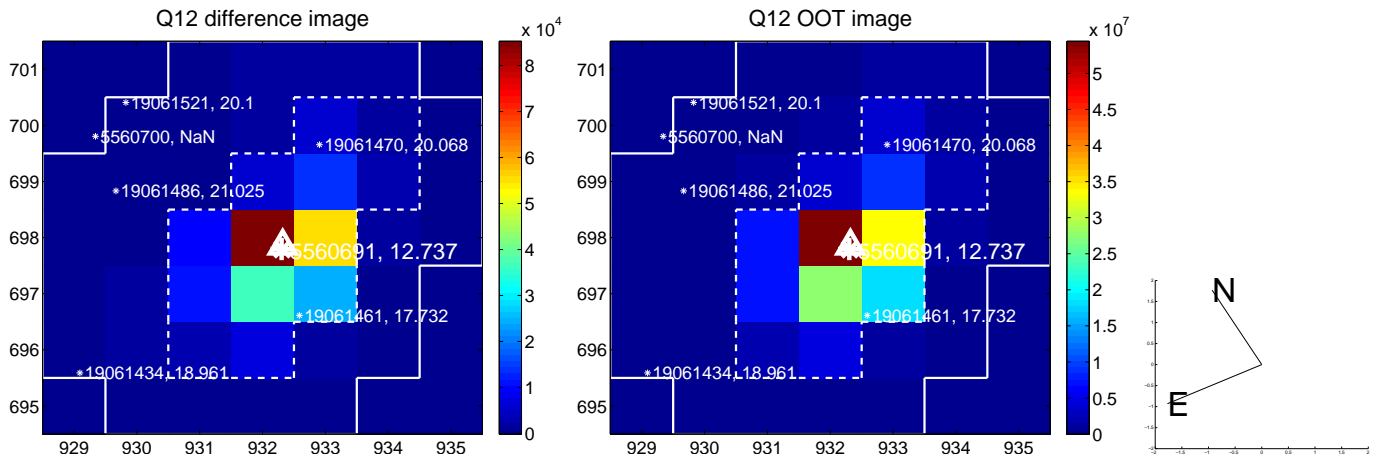
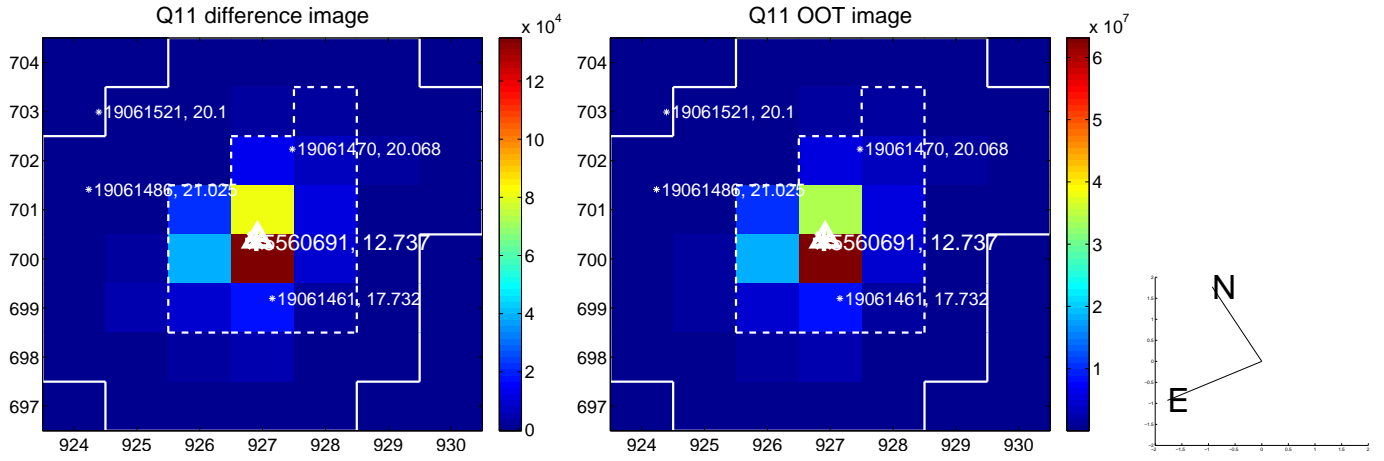
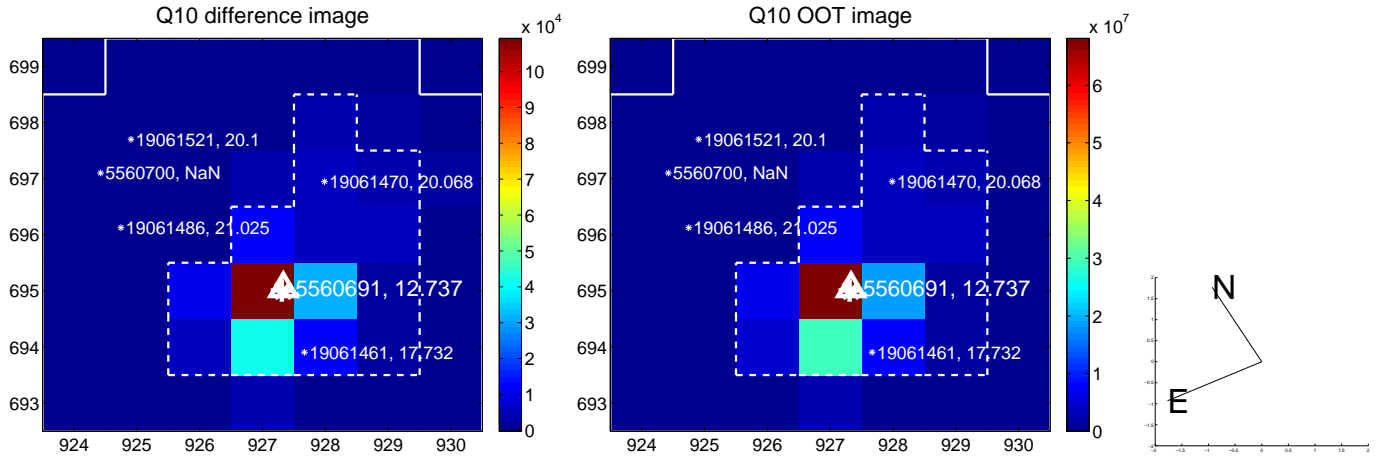
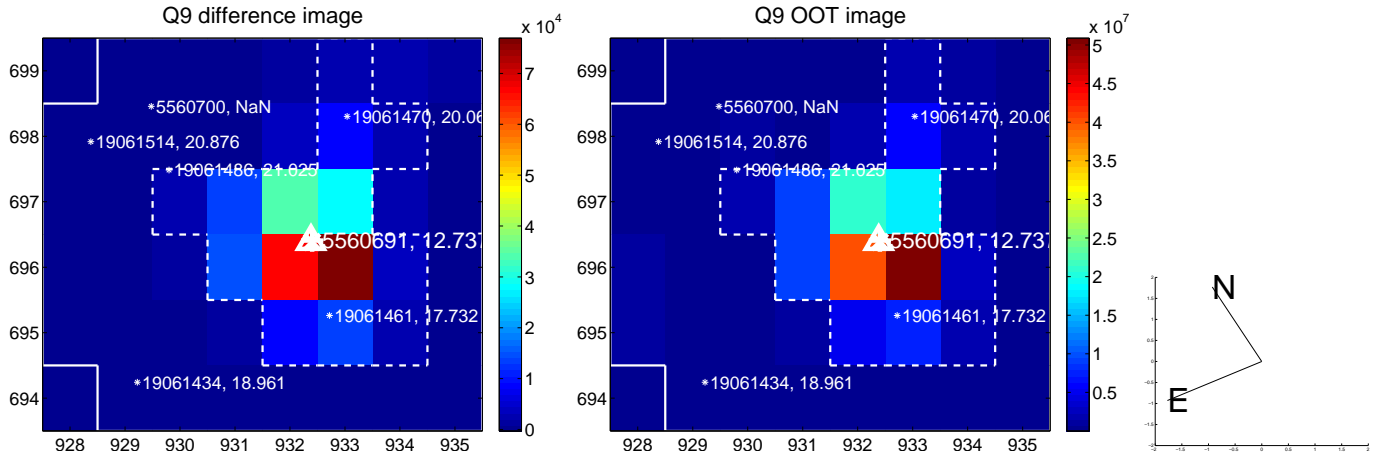
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



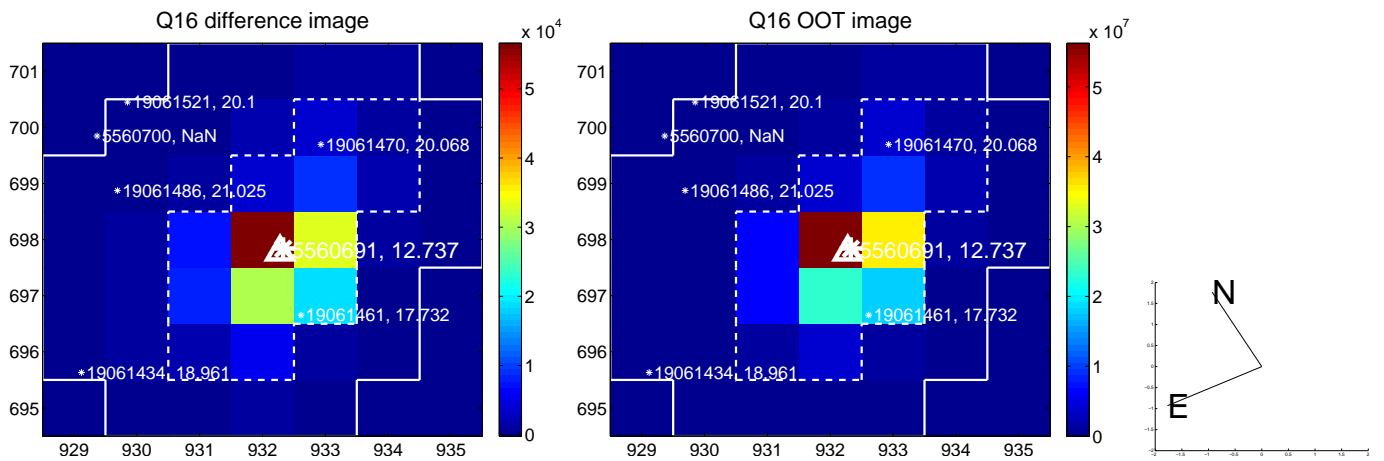
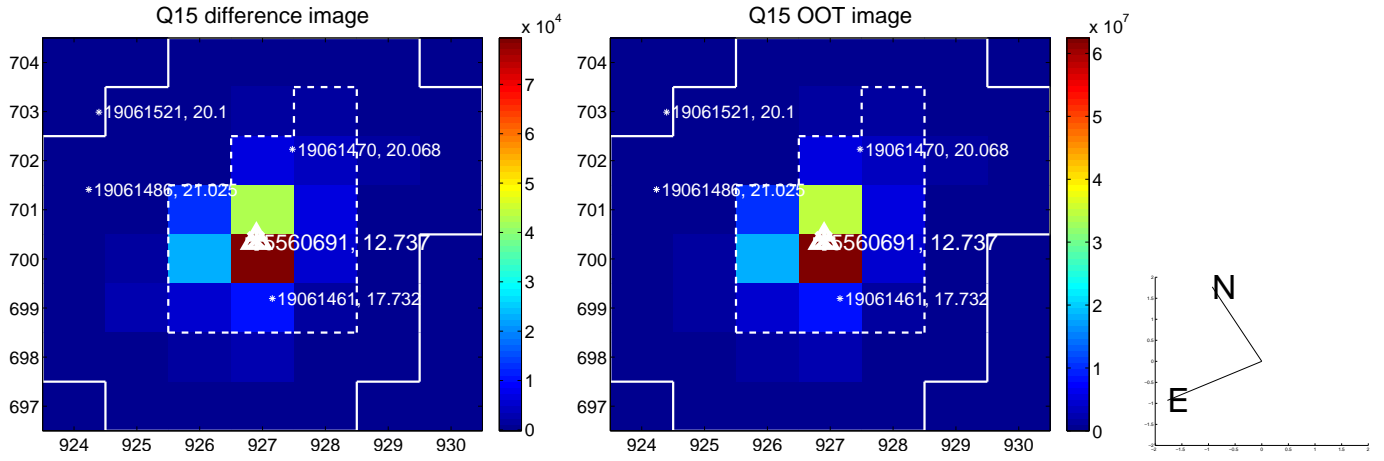
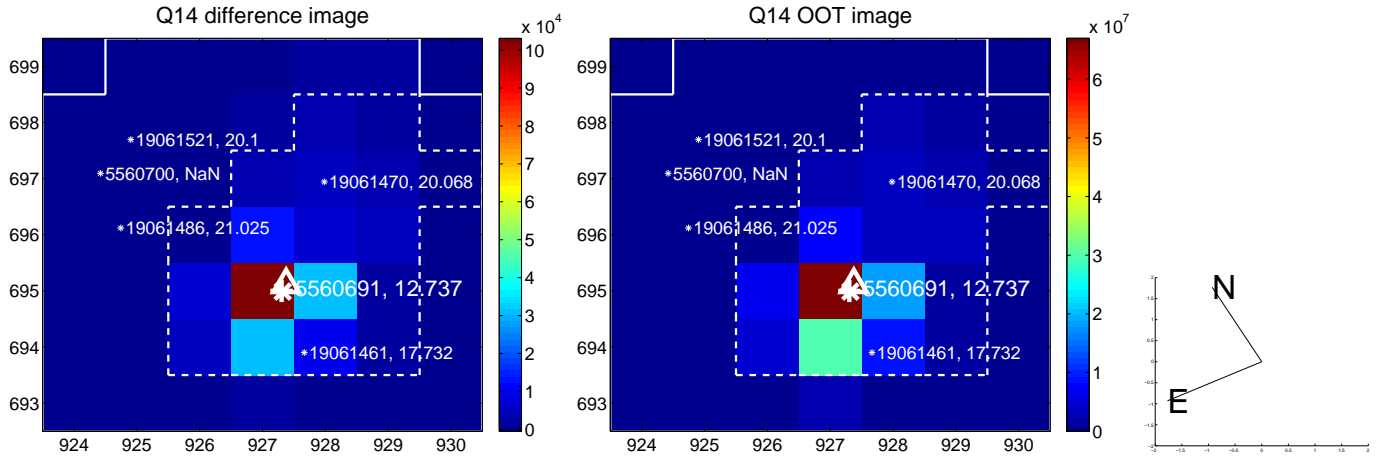
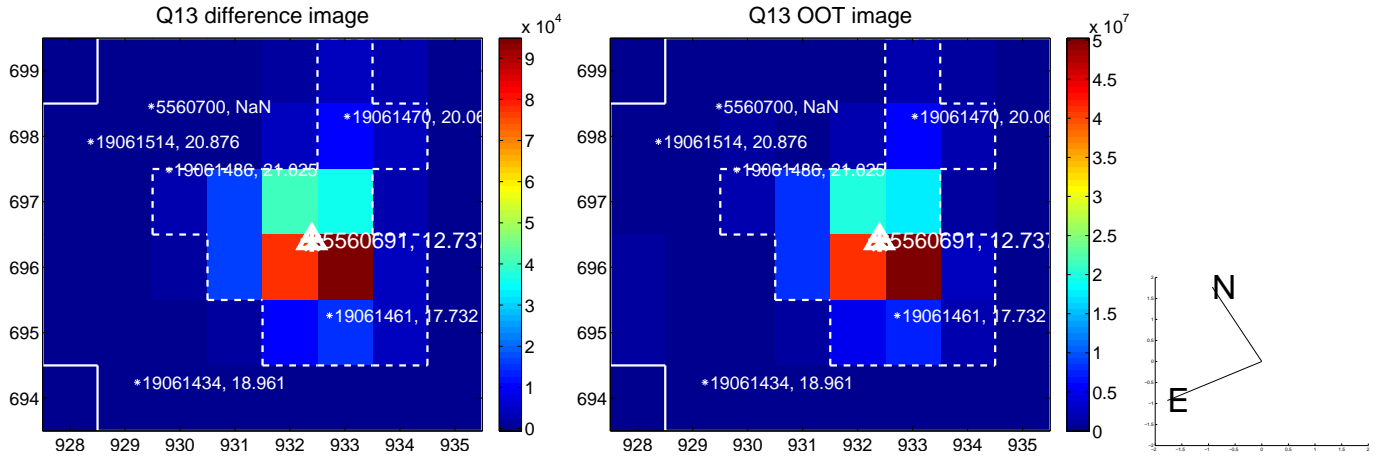
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



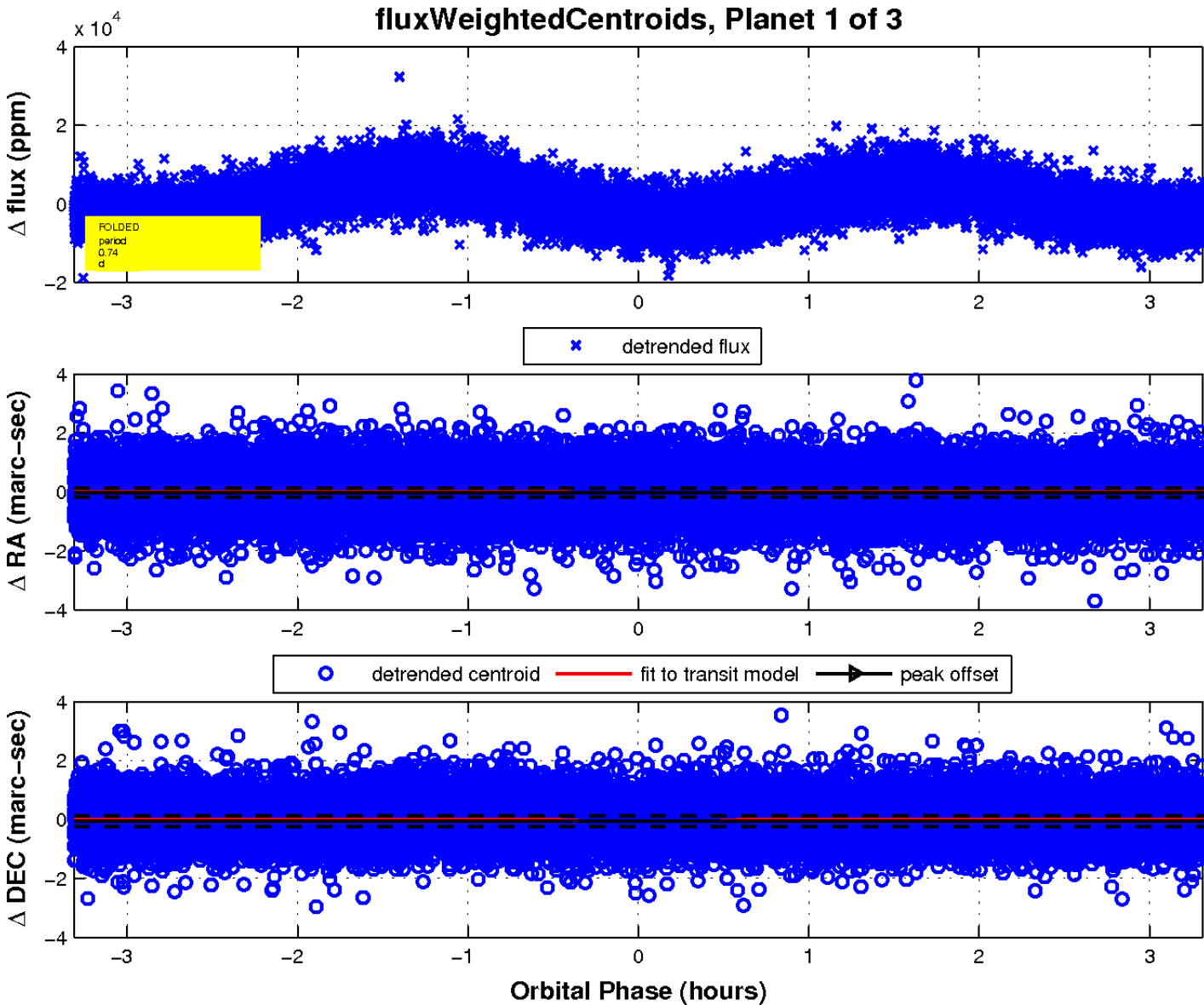
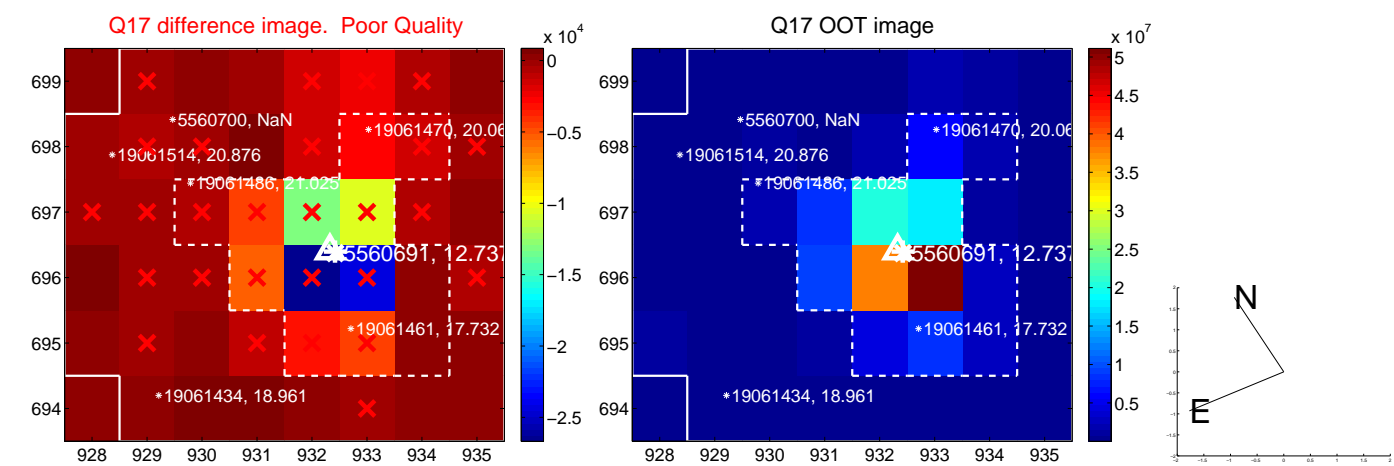
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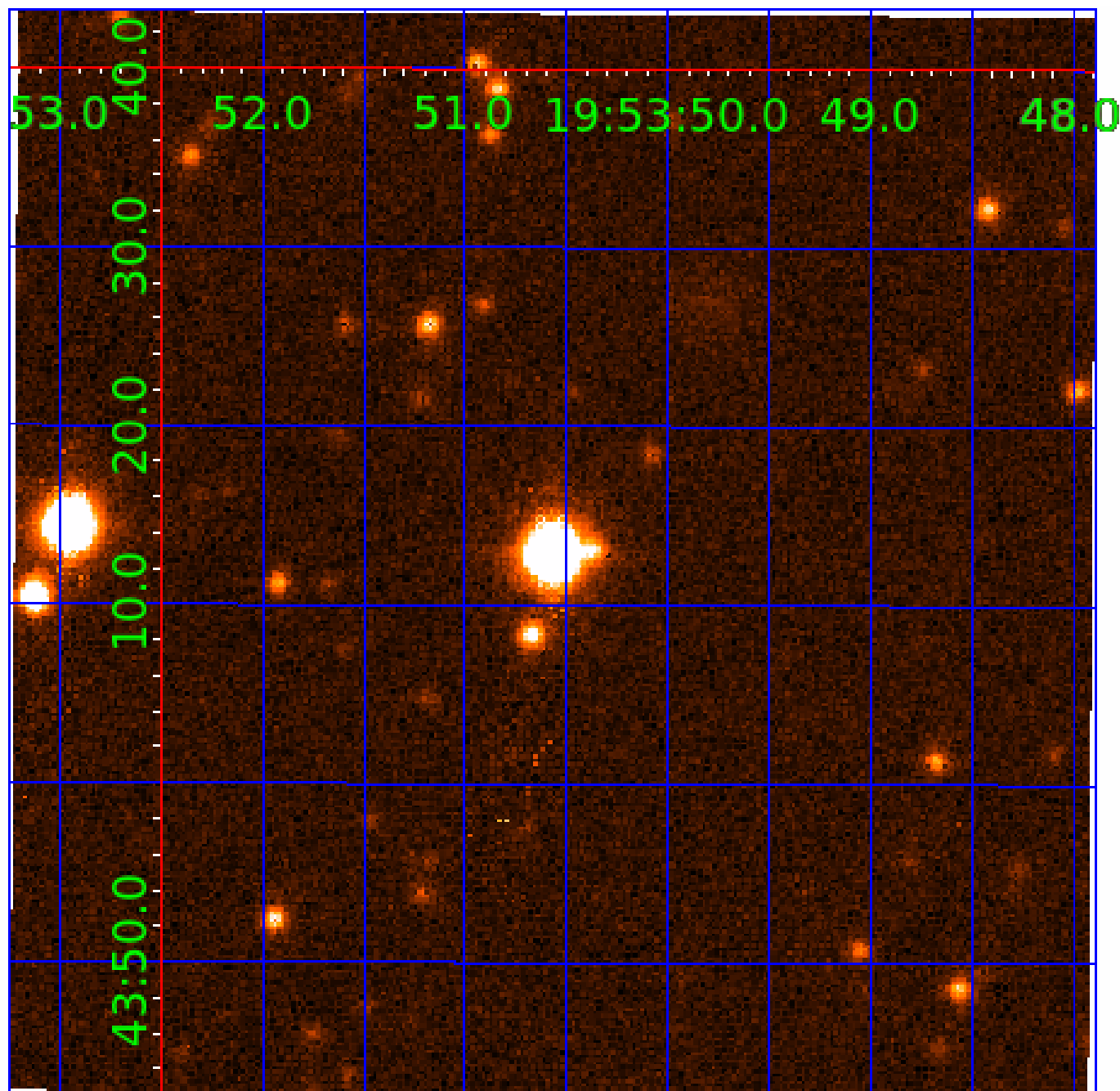


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005560691

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})
005560691-01	OBS	No	0.740069	131.971089	566.1	1.104	10.7	8.7	1.31	6609	3.64	10132.13
005560691-02	OBS	No	0.740083	131.886011	1677.7	3.320	13.8	19.2	1.31	6609	6.27	10131.89
005560691-03	OBS	No	0.740071	131.598494	224.2	1.500	19.0	-1.0	1.31	6609	1.98	10132.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005560691-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
005560691-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS
005560691-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

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

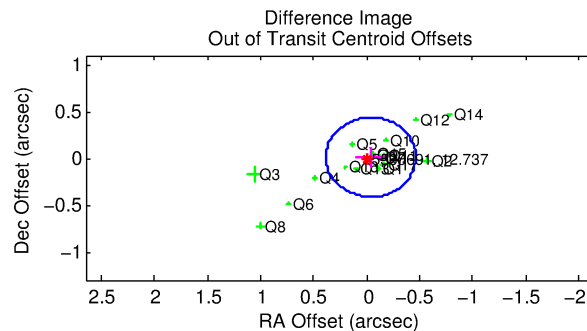
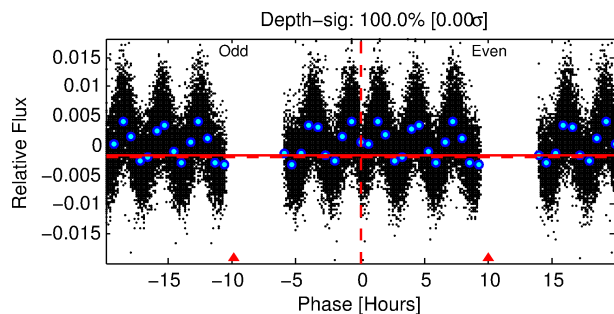
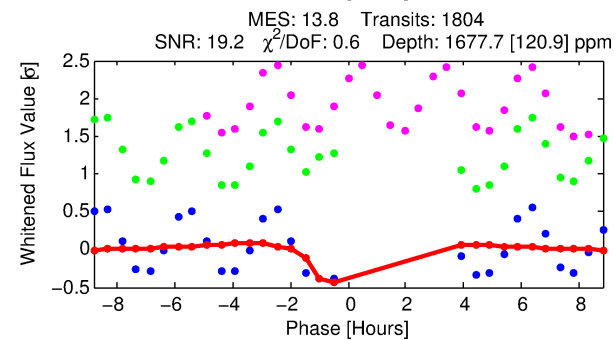
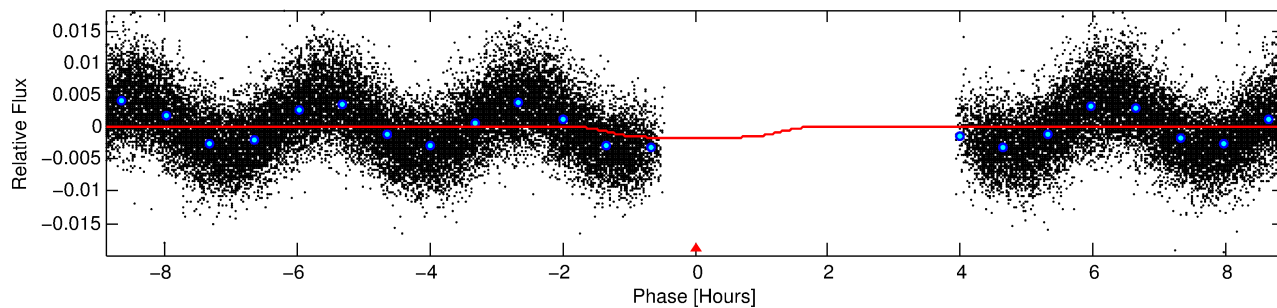
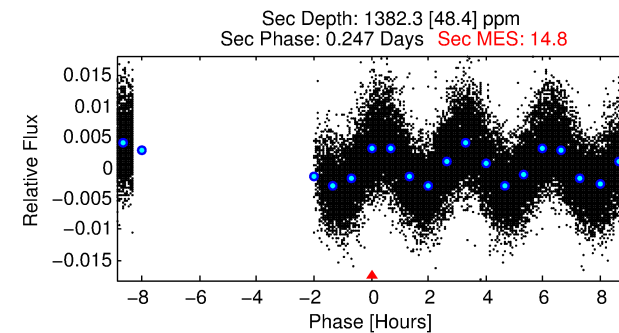
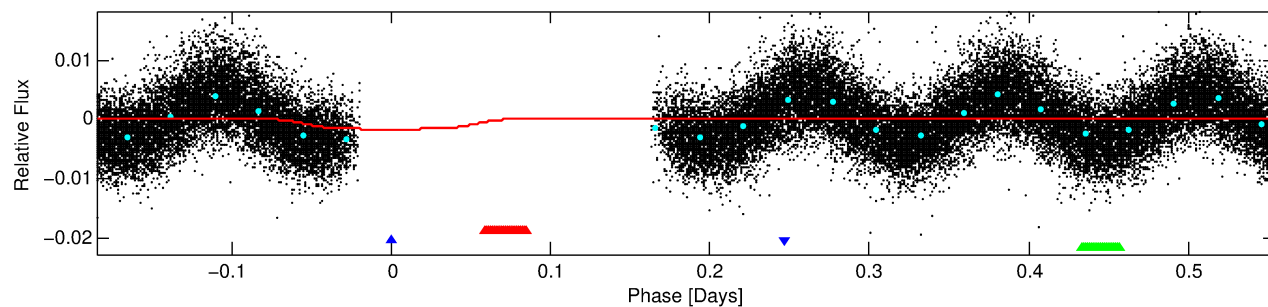
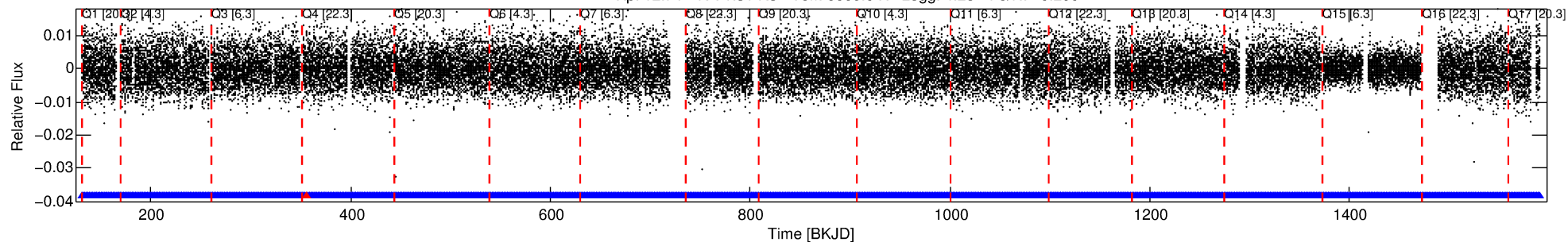
Ephemeris Match Information For 005560691-02

No Significant Match Found

DV One-Page Summary

KIC: 5560691 Candidate: 2 of 3 Period: 0.740 d

Kp: 12.74 R*: 1.31 Rs Teff: 6609.0 K Logg: 4.28 Fe/H: -0.200



DV Fit Results:

Period = 0.74008 [0.00000] d
Epoch = 131.8860 [0.0034] BKJD
Rp/R* = 0.0439 [0.0026]
a/R* = 1.31 [0.08]
b = 0.90 [0.04]
Seff = 10131.88 [3875.99]
Teq = 2558 [245] K
Rp = 6.27 [1.91] Re
a = 0.0170 [0.0042] AU
Ag = 5.59 [2.12] [2.16σ]
Teffp = 6083 [272] K [9.64σ]

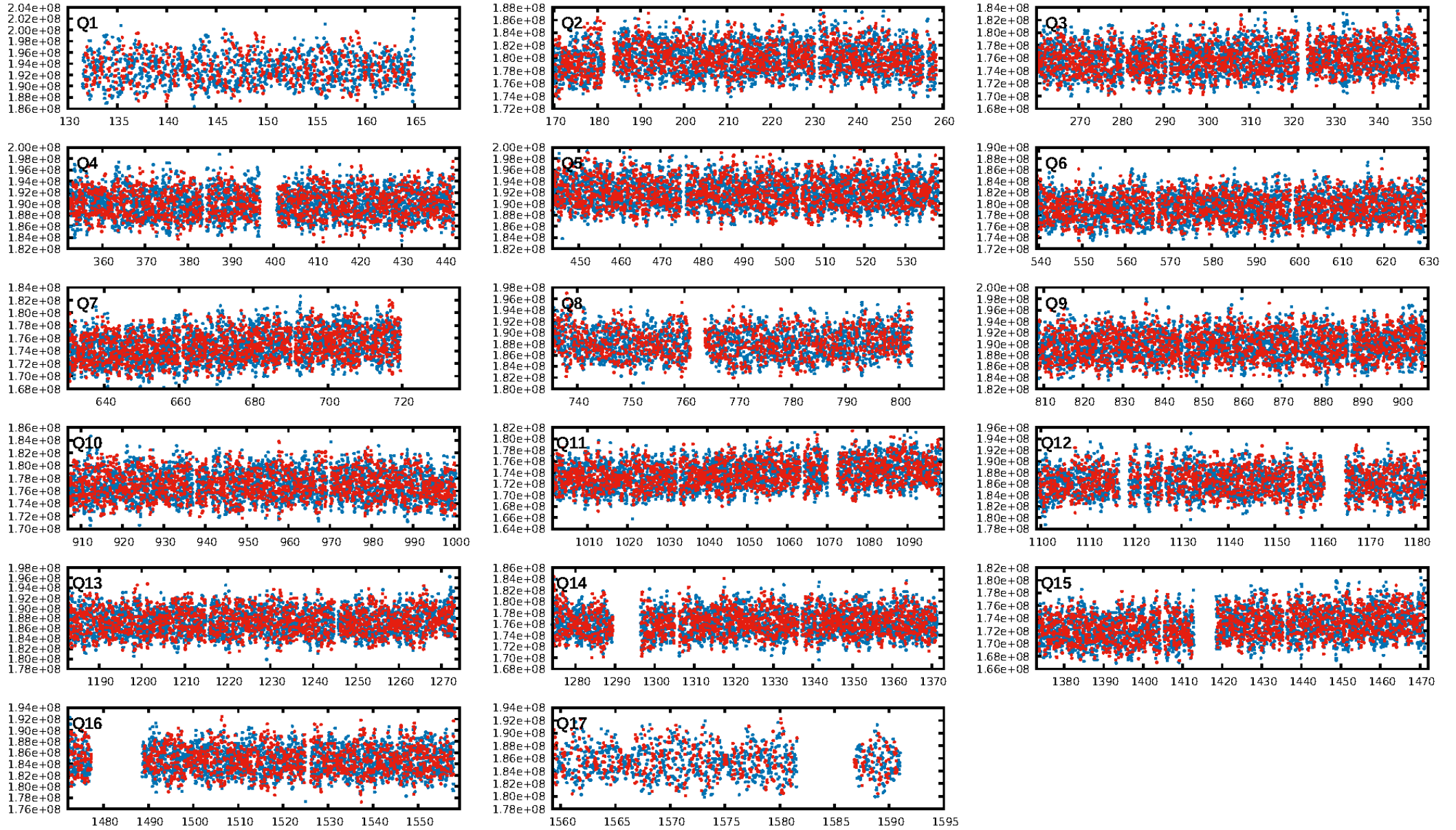
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1723/1724]
GhostDiagnostic-chr: 1.102
Centroid-sig: 32.9%
Centroid-so: 0.039 arcsec [3.05σ]
OotOffset-rm: 0.040 arcsec [0.28σ]
KicOffset-rm: 0.079 arcsec [0.55σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
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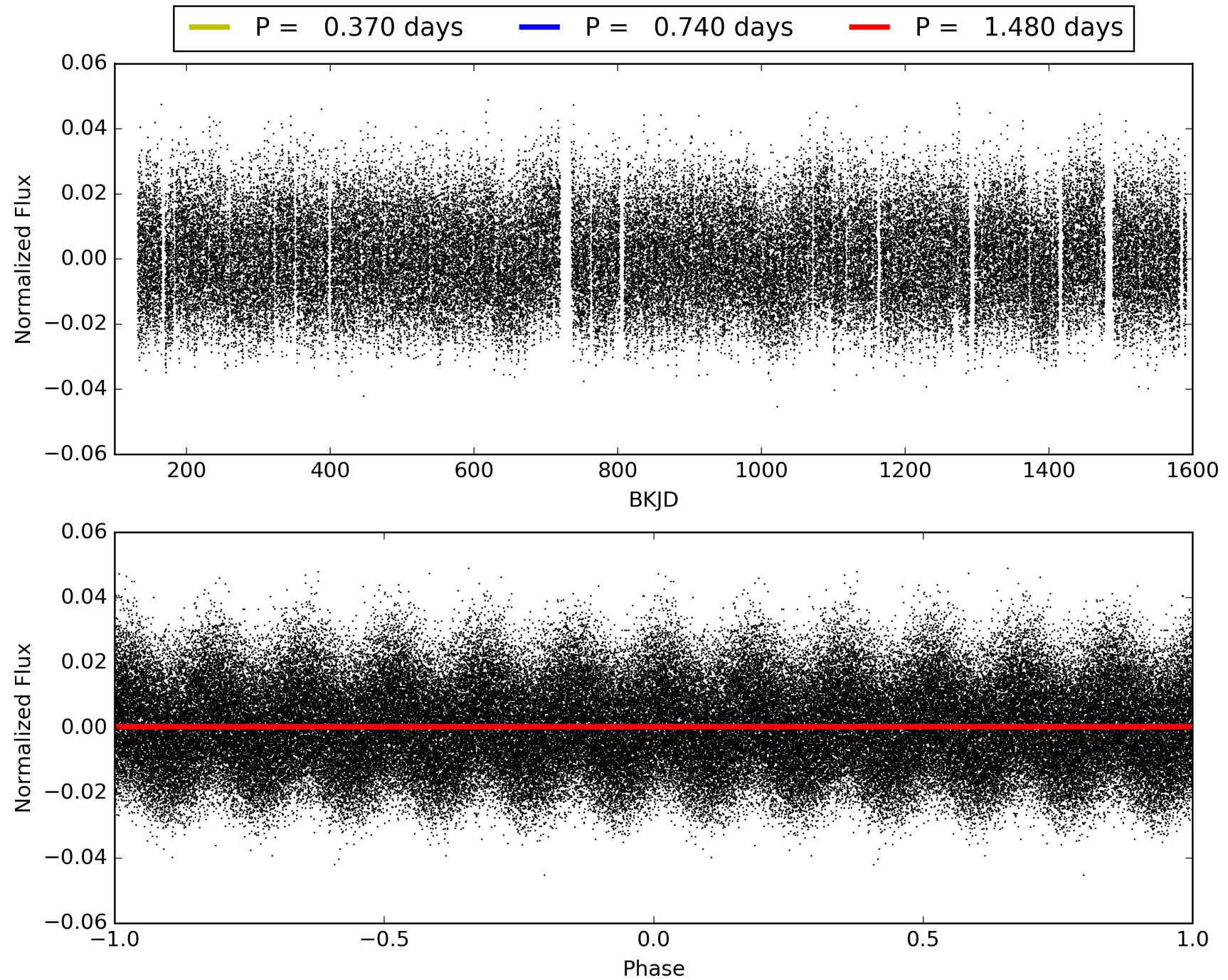
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 16:37:32 Z

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

TCE 005560691-02, PDC Light Curves

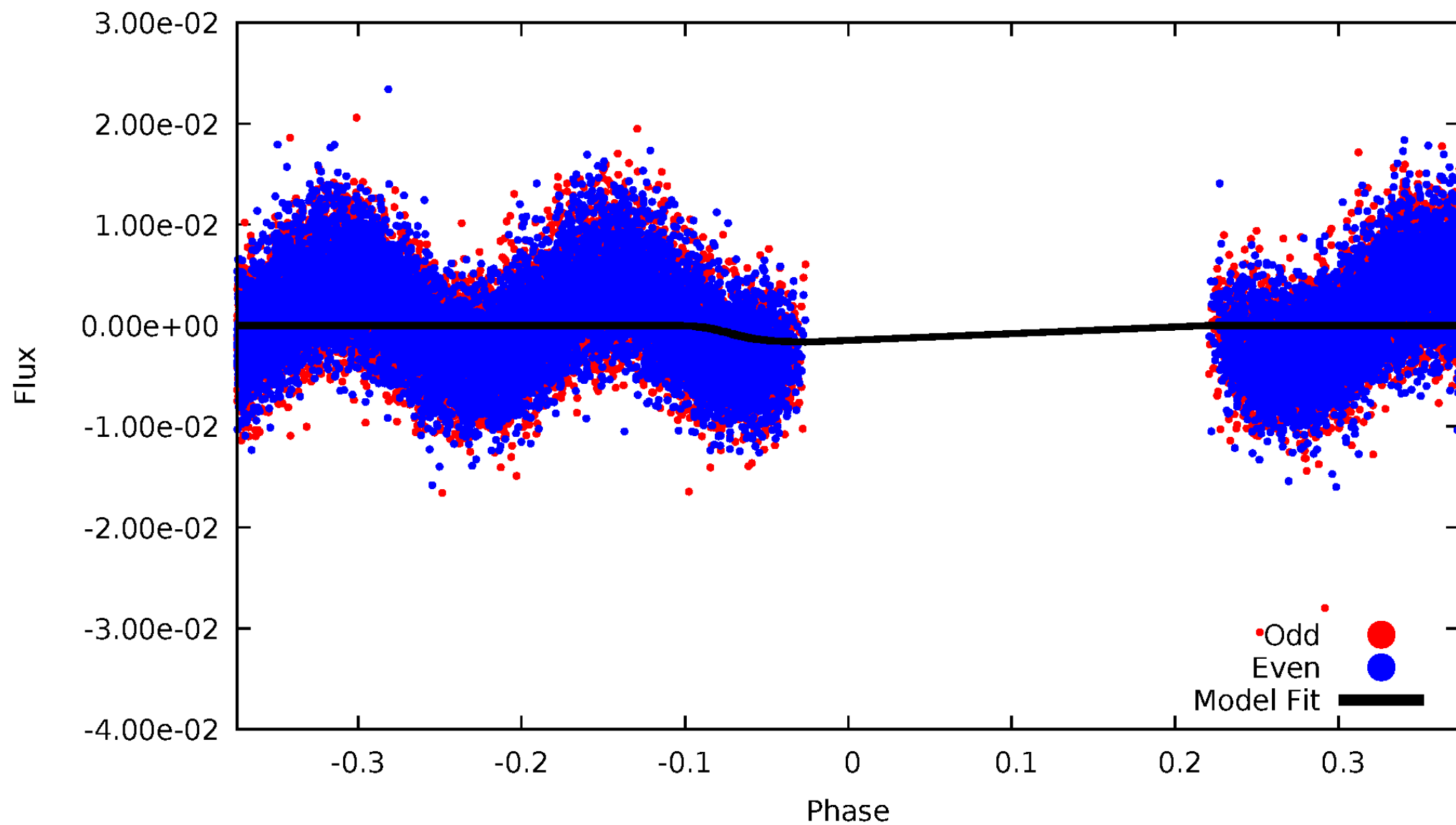


TCE 005560691-02



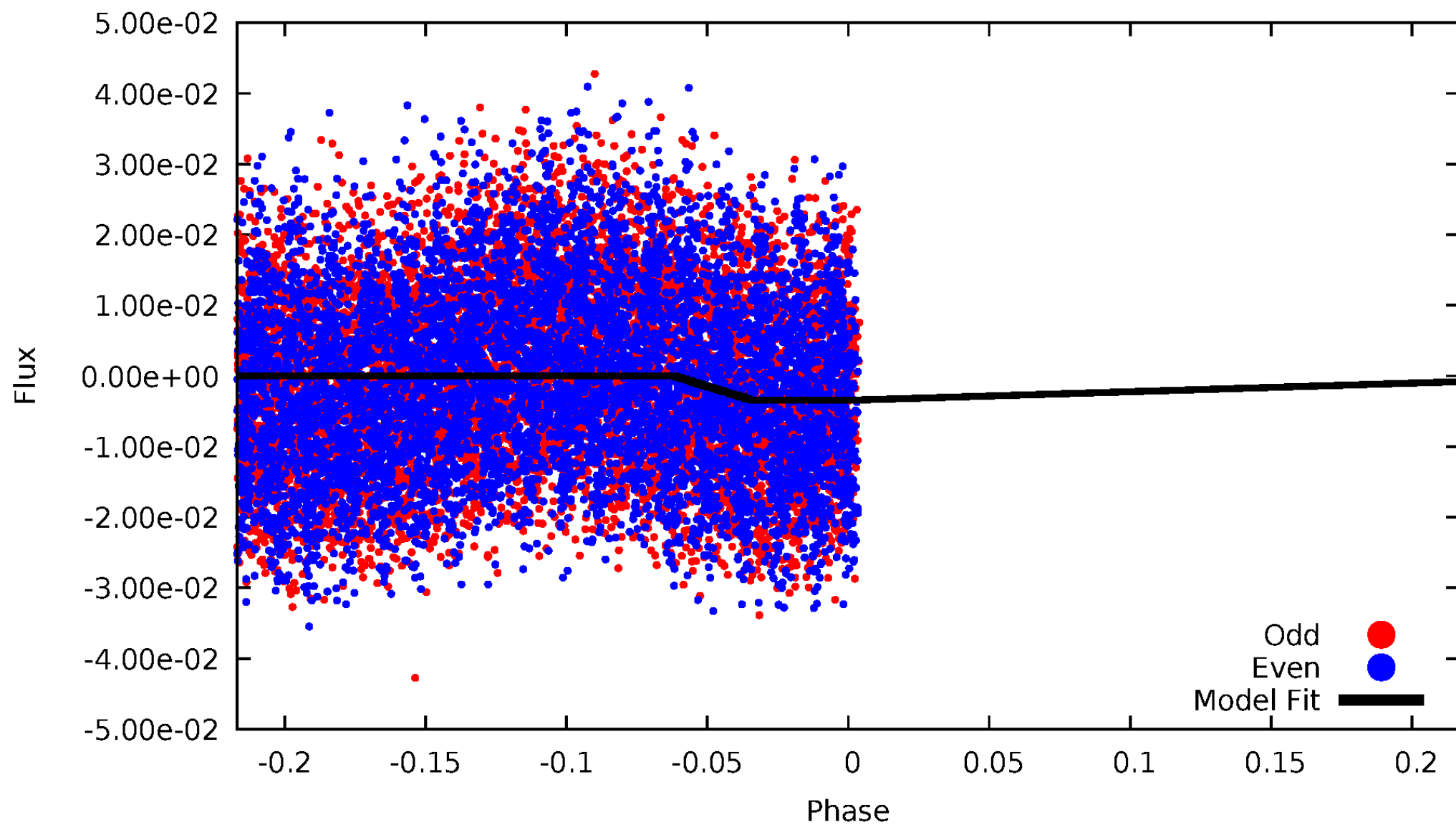
DV Odd/Even

TCE 005560691-02



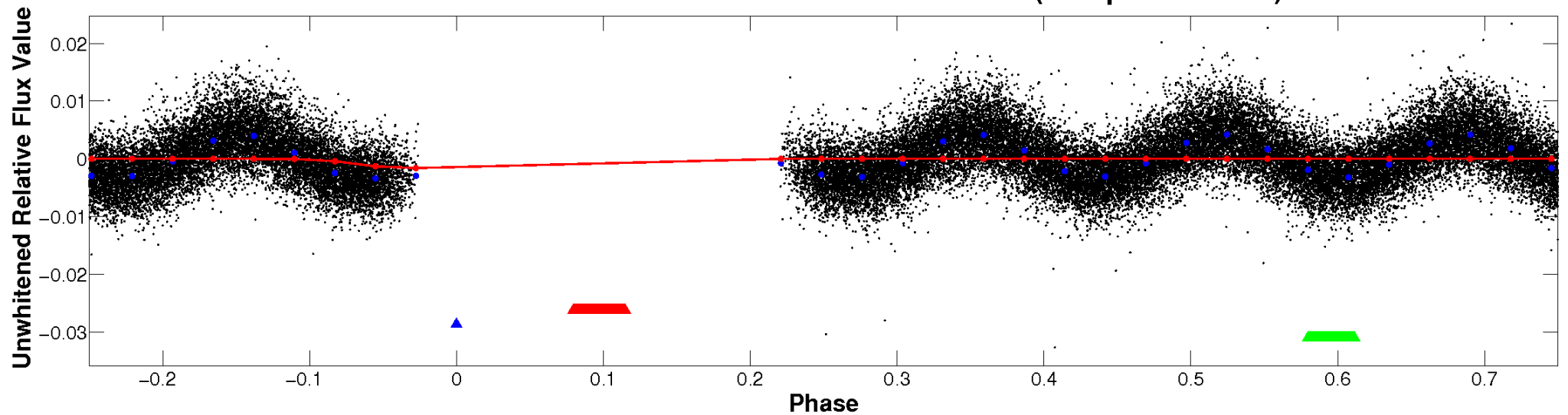
ALT Odd/Even

TCE 005560691-02

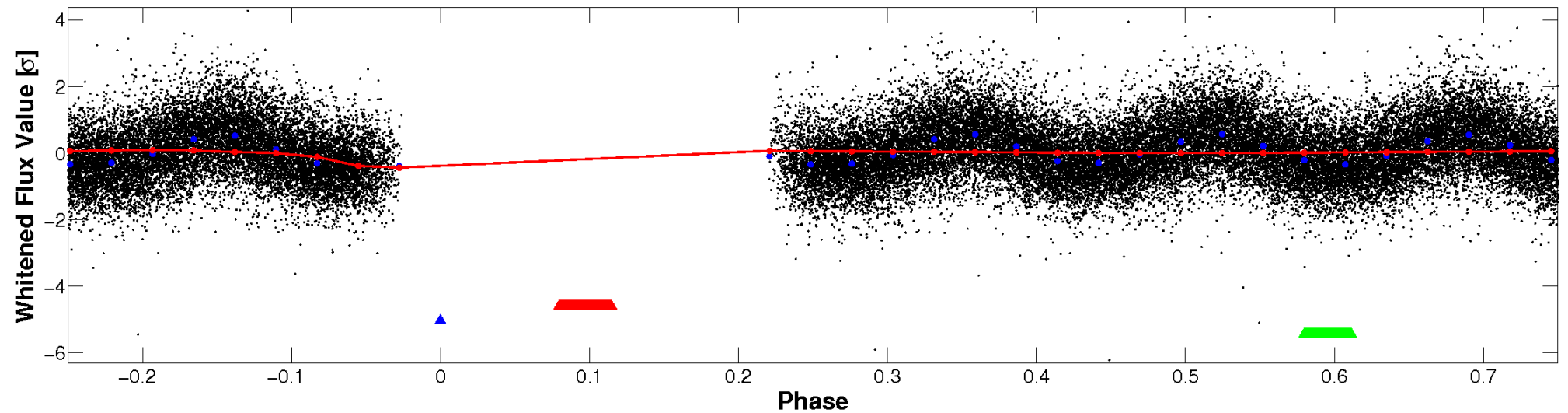


Non-Whitened Vs. Whitened Light Curve

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

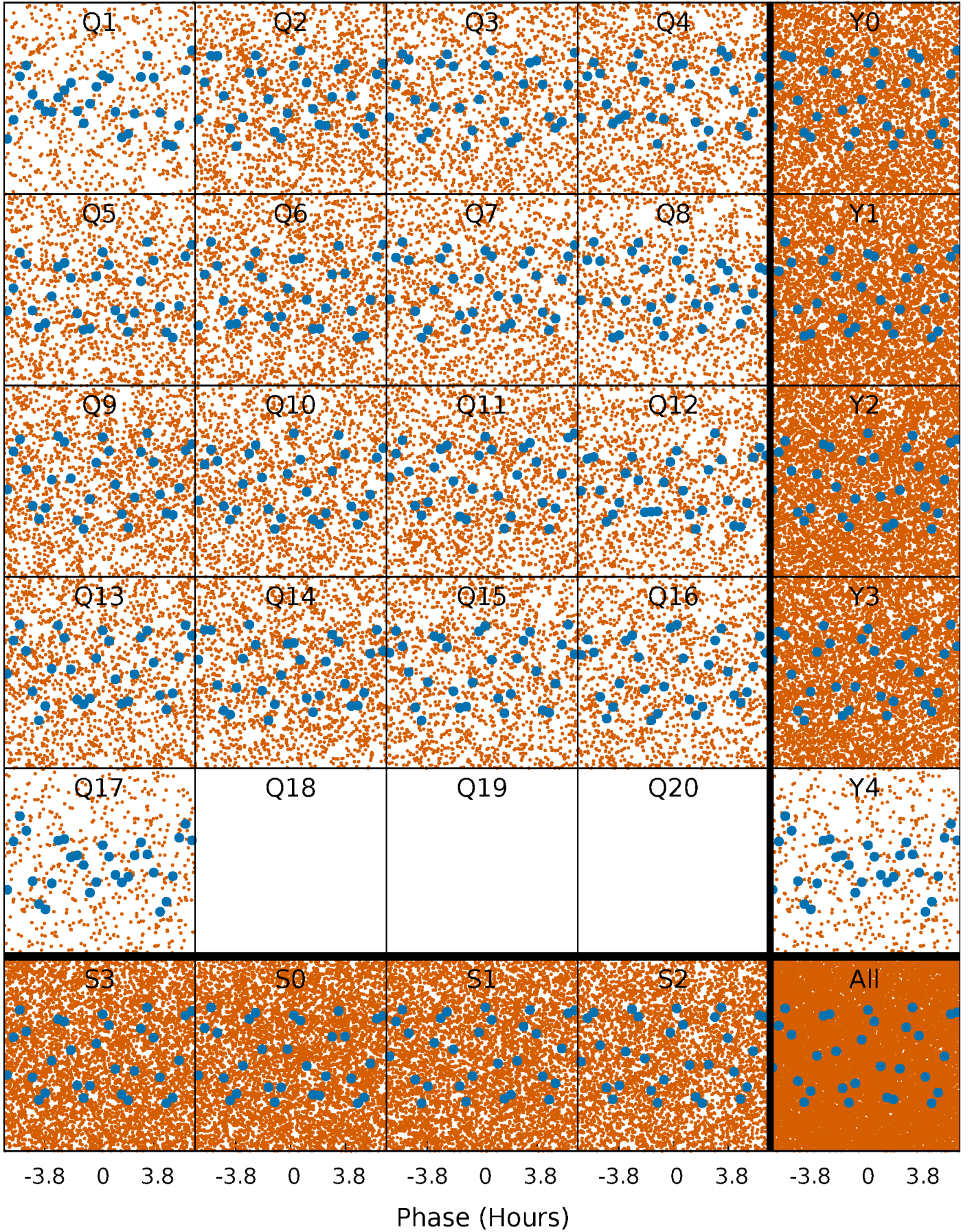


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



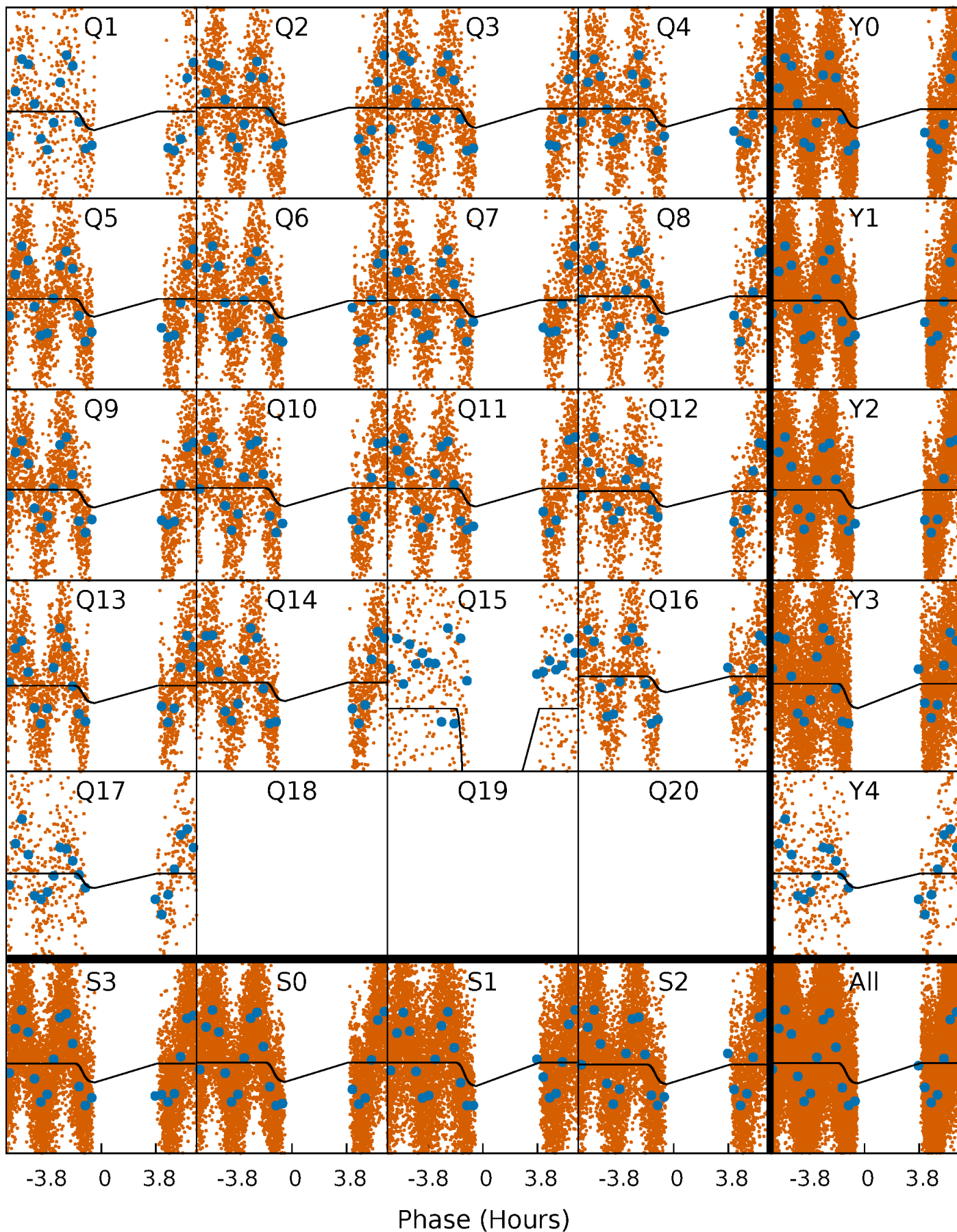
PDC Quarter-Phased Transit Curves

TCE 005560691-02 P= 0.740083 Days $T_0=131.886011$ (BKJD)



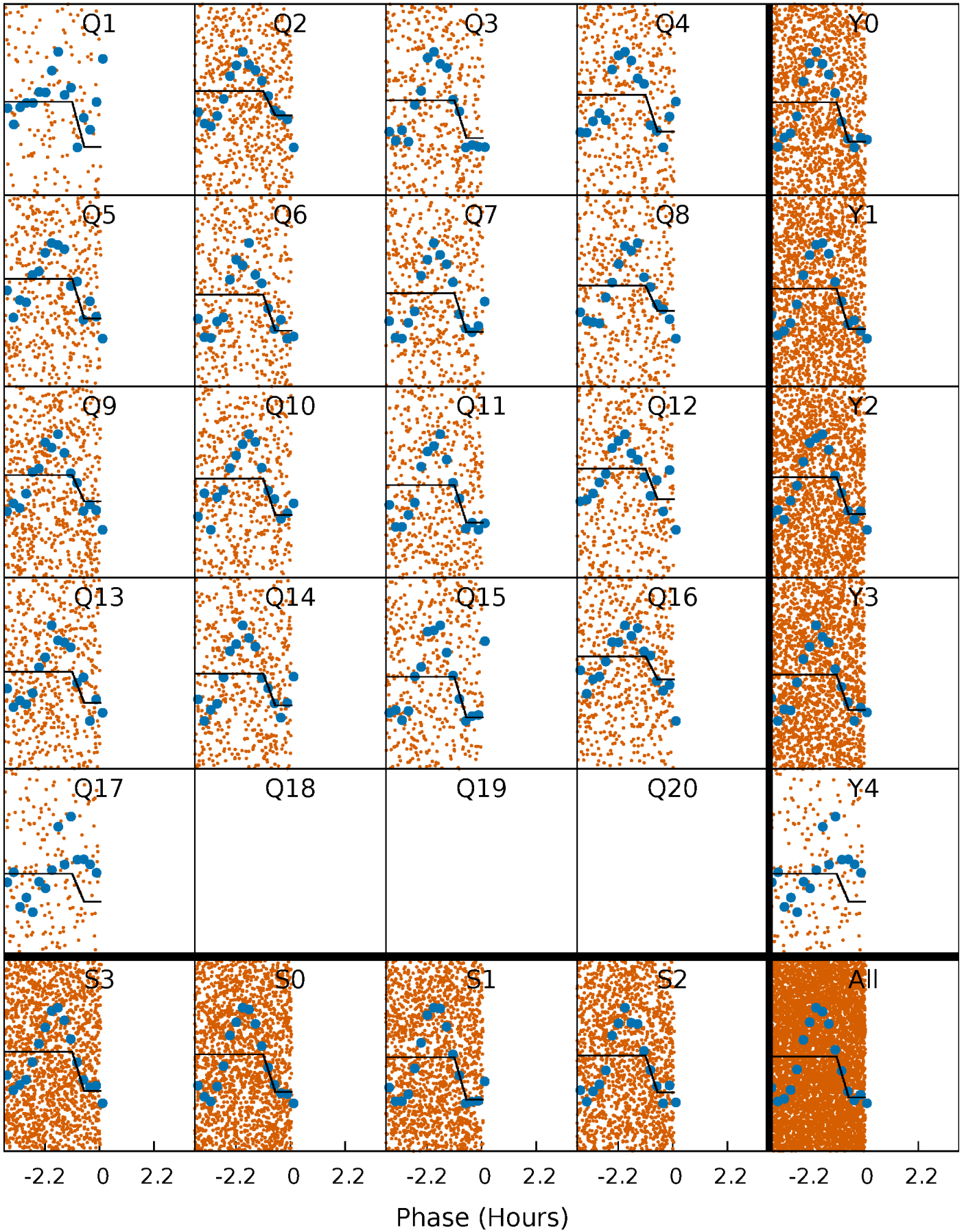
DV Quarter-Phased Transit Curves

TCE 005560691-02 P= 0.740083 Days $T_0=131.886011$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

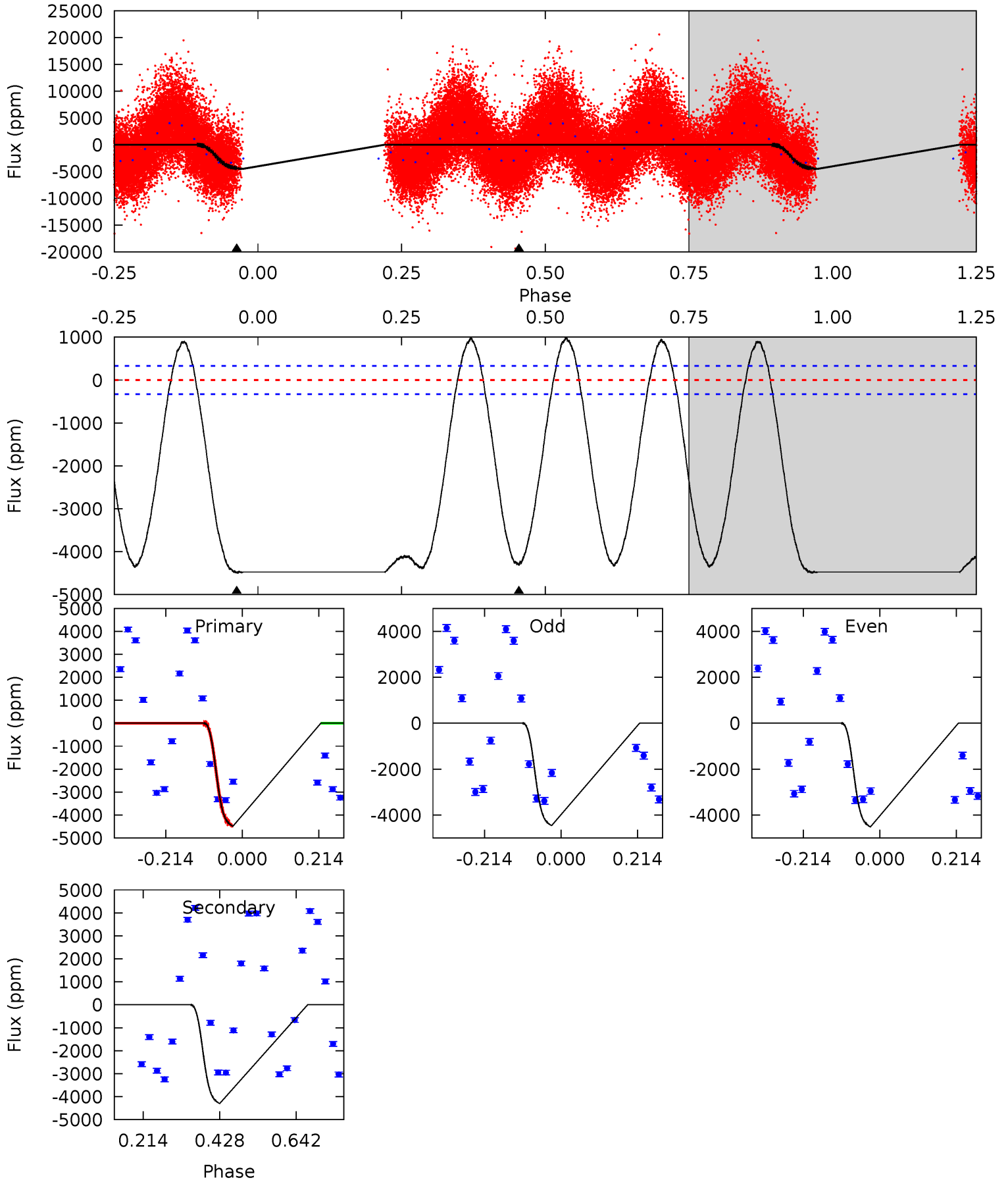
TCE 005560691-02 $P = 0.740071$ Days $T_0 = 131.863985$ (BKJD)



DV Model-Shift Uniqueness Test

005560691-02, P = 0.740083 Days, E = 131.145928 Days

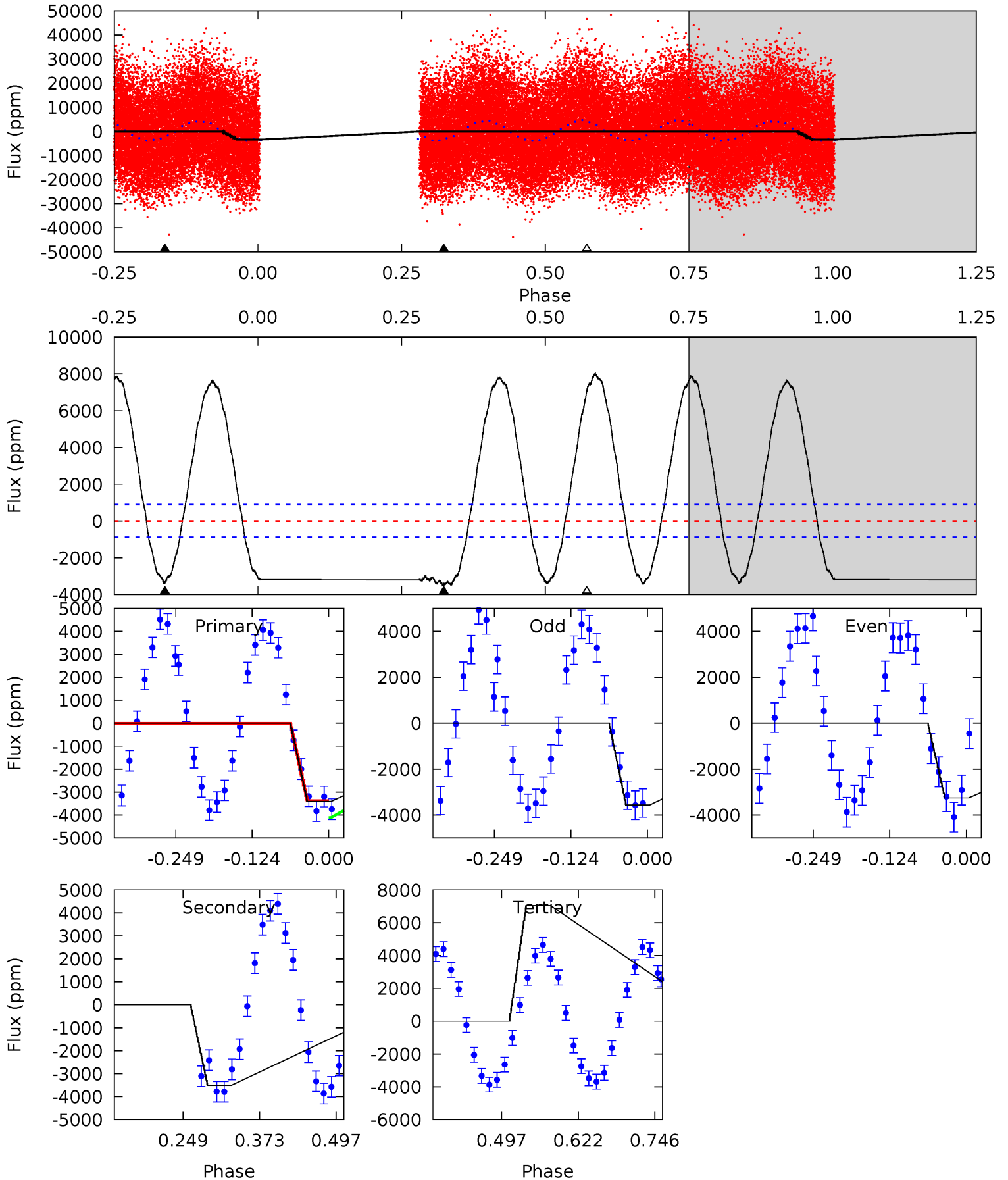
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
60.0	57.5	0	0	4.40	1.24	18.4	60.0	60.0	57.5	57.5	0.38	0	0.18	0



Alt Model-Shift Uniqueness Test

005560691-02, P = 0.740071 Days, E = 131.123914 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.3	17.8	-35.8	0	4.52	1.54	18.3	53.1	17.3	53.6	17.8	0.78	0.97	0.70	0.62



Stellar Parameters For KIC 005560691

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6609^{+149}_{-216}	$4.282^{+0.105}_{-0.195}$	$-0.200^{+0.250}_{-0.300}$	$1.309^{+0.391}_{-0.210}$	$1.202^{+0.187}_{-0.170}$	$0.754^{+0.370}_{-0.376}$
	+2%/-3%	+2%/-5%	+125%/-150%	+30%/-16%	+16%/-14%	+49%/-50%
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 005560691-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-4303 ± 75	$6.42^{+1.07}_{-0.78}$	3608^{+257}_{-194}	8295^{+424}_{-408}	17^{+4}_{-4}
Alt.	-3508 ± 197	$8.48^{+1.39}_{-0.97}$	3612^{+258}_{-213}	6568^{+297}_{-257}	$7.782^{+1.921}_{-1.988}$

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

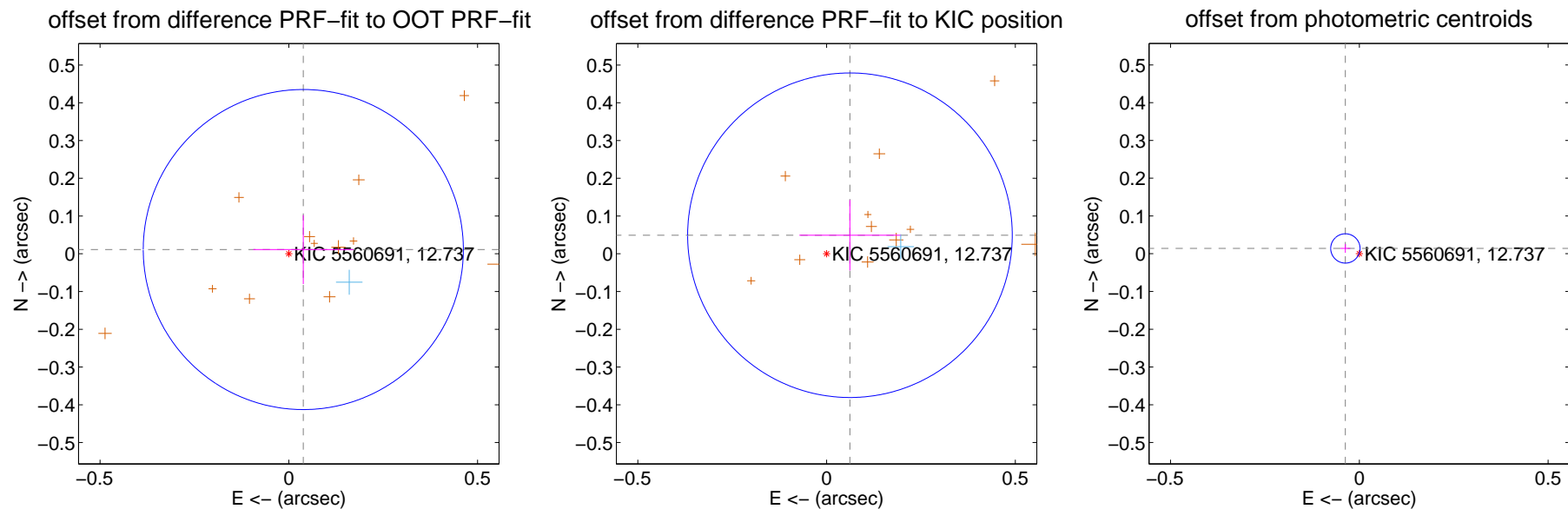
DV Centroid Data

Supplemental centroid analysis for 005560691-02. Kepler magnitude: 12.74. Transit SNR 19.22

There are 1 quarters with good PRF difference image offsets

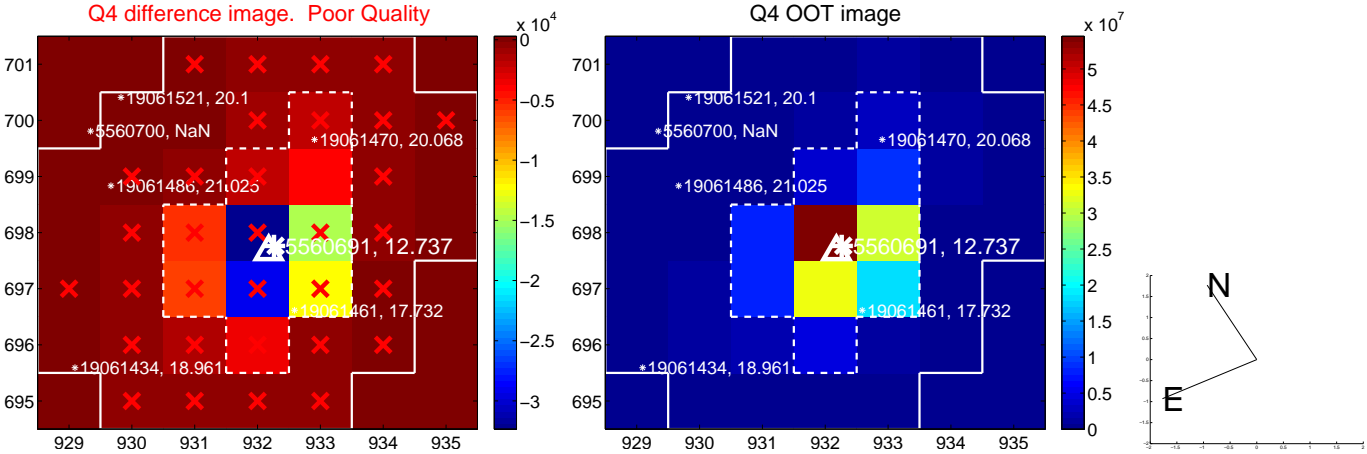
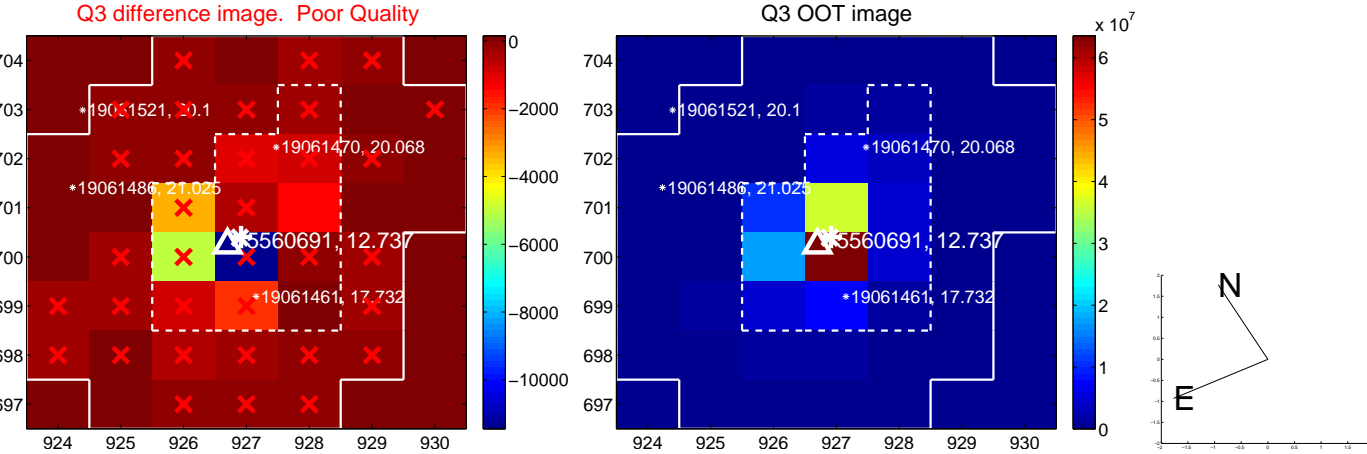
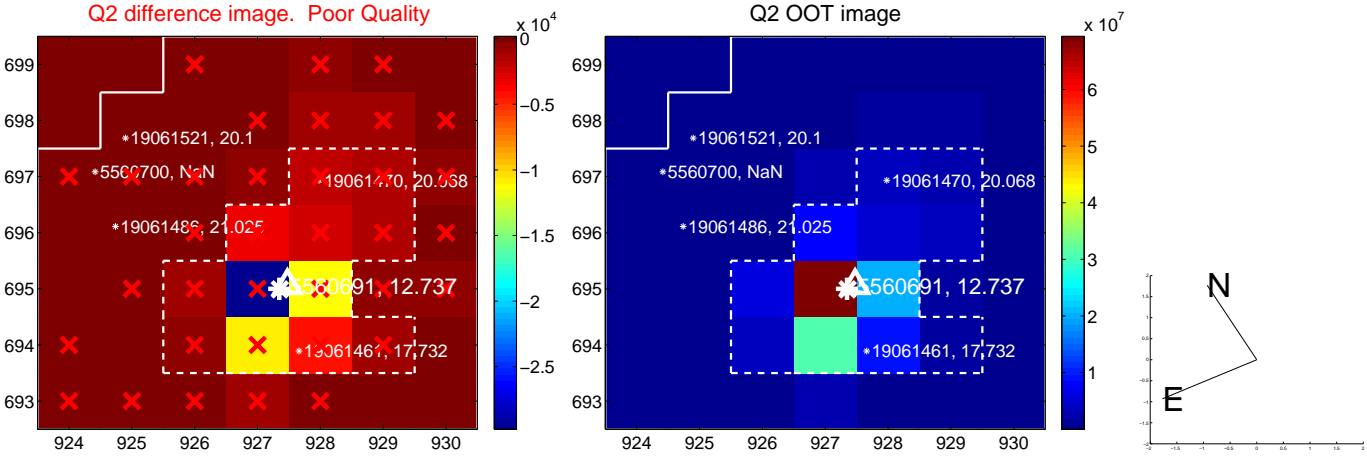
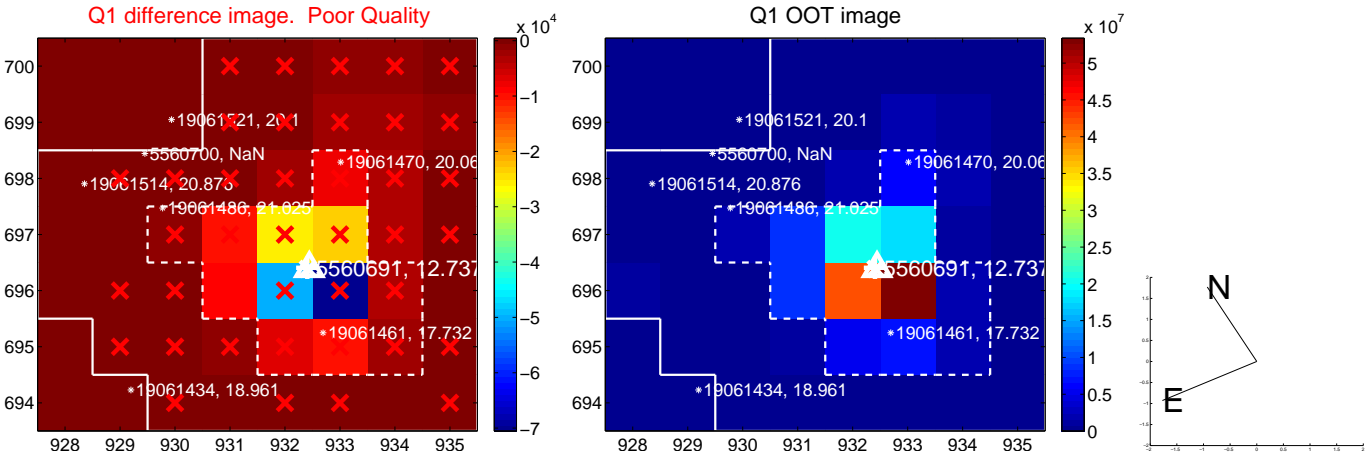
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.040 ± 0.141	0.28	-0.038 ± 0.133	0.011 ± 0.091
PRF-fit source offset from KIC position	0.079 ± 0.143	0.55	-0.062 ± 0.134	0.049 ± 0.093
photometric centroid source offset	0.04 ± 0.01	3.05	0.04 ± 0.01	0.01 ± 0.01

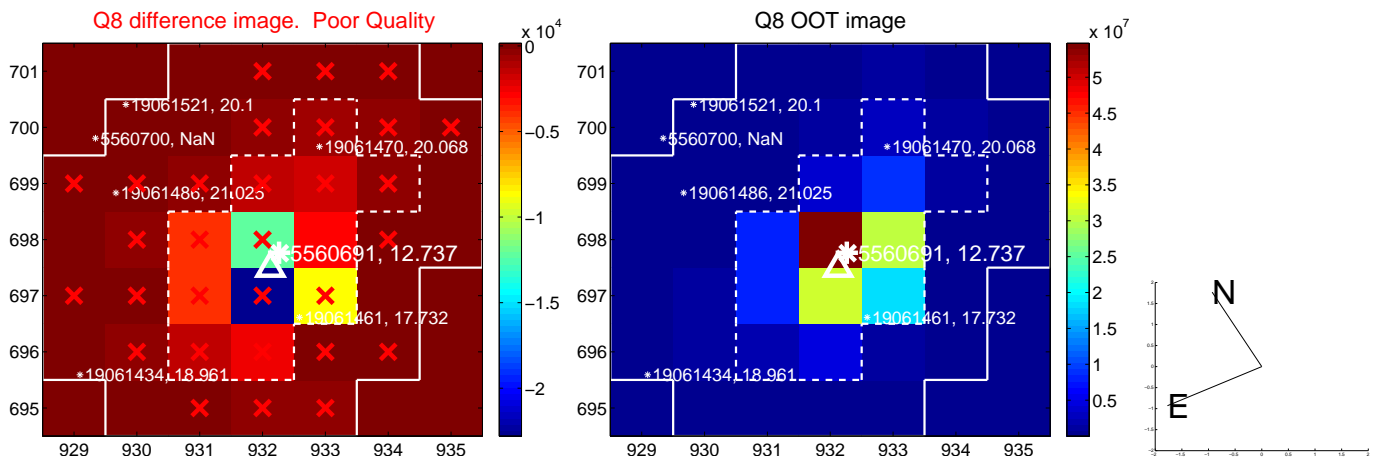
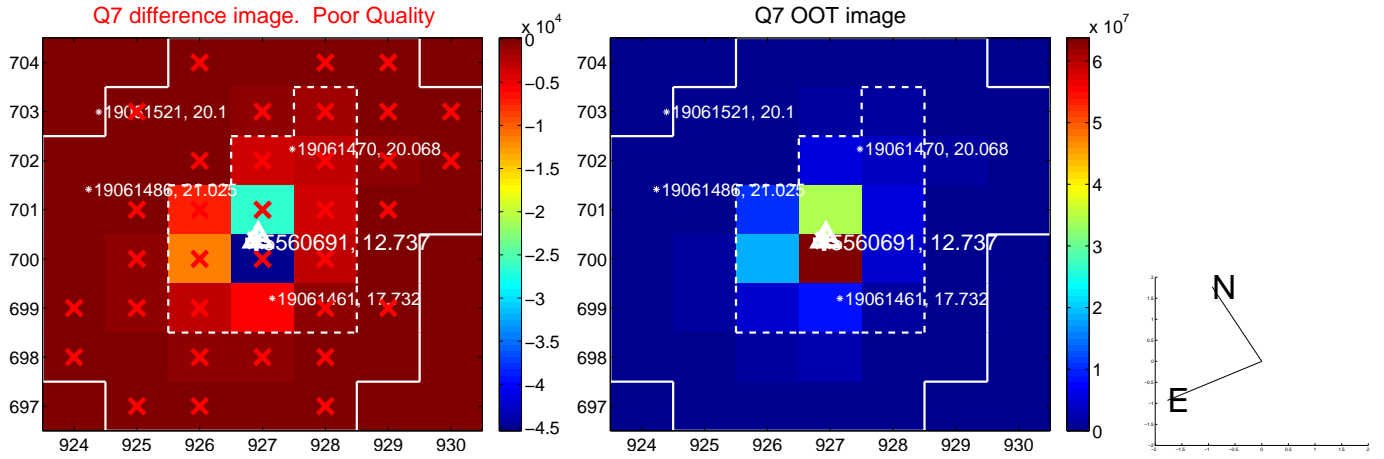
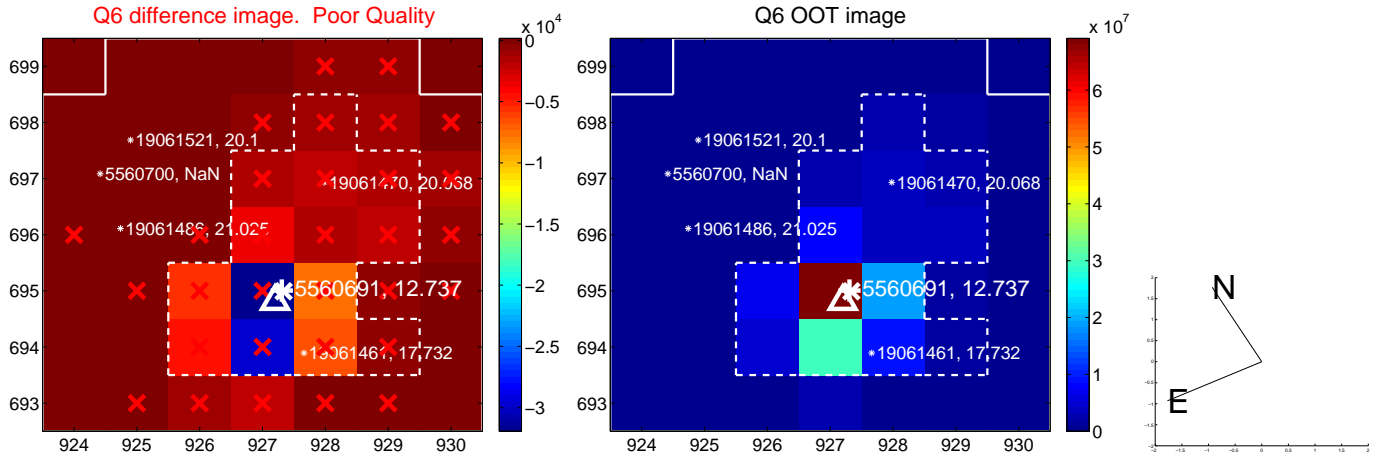
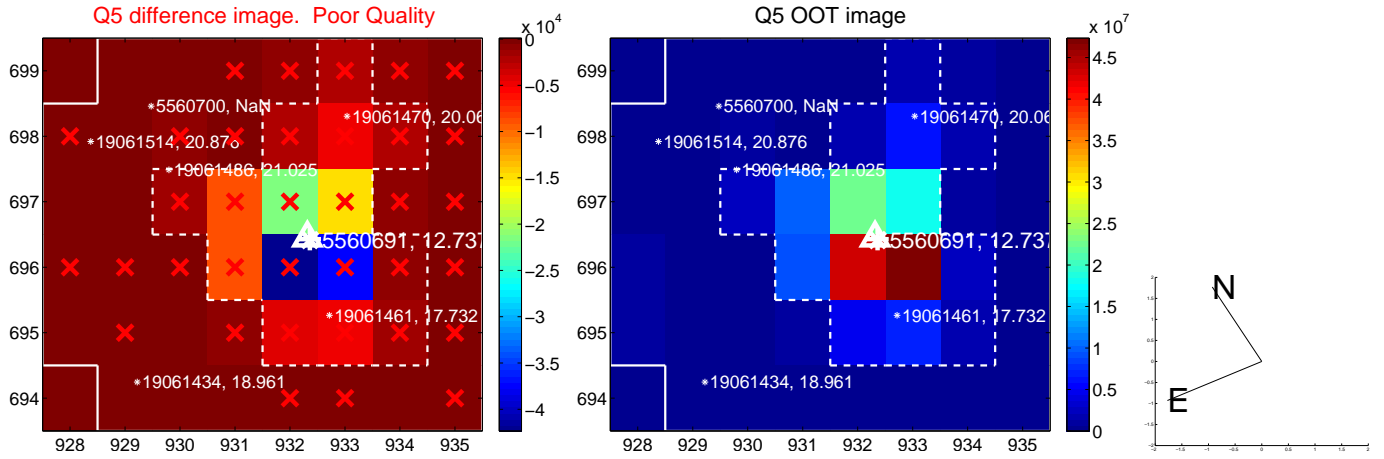


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

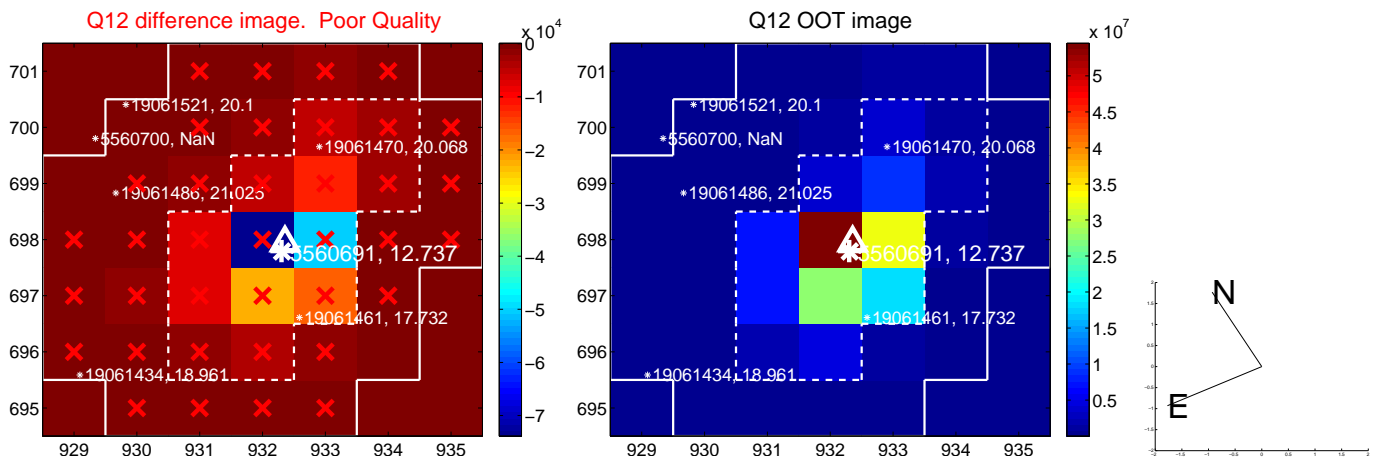
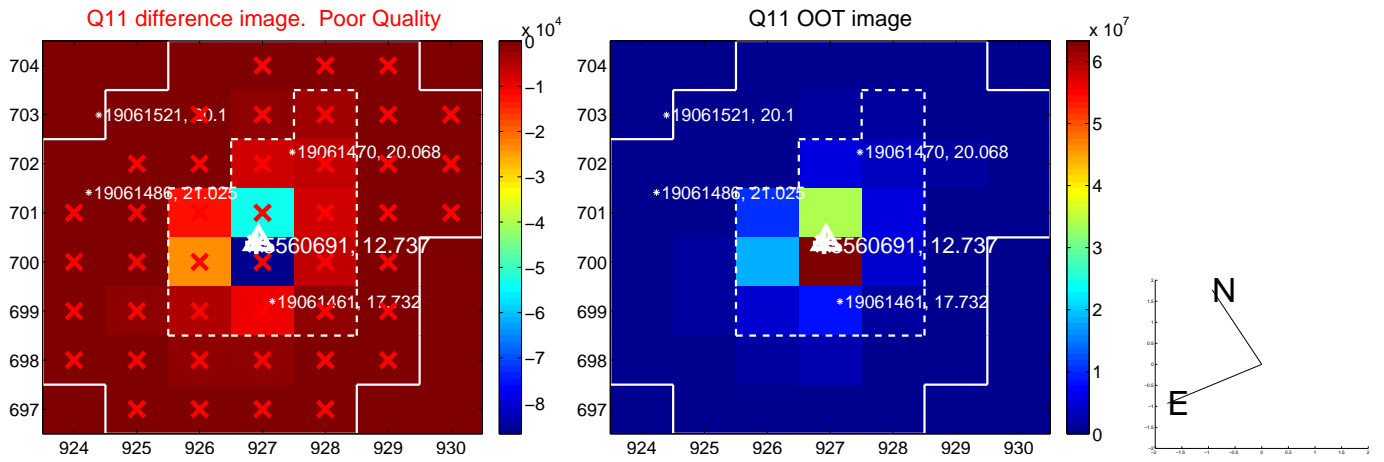
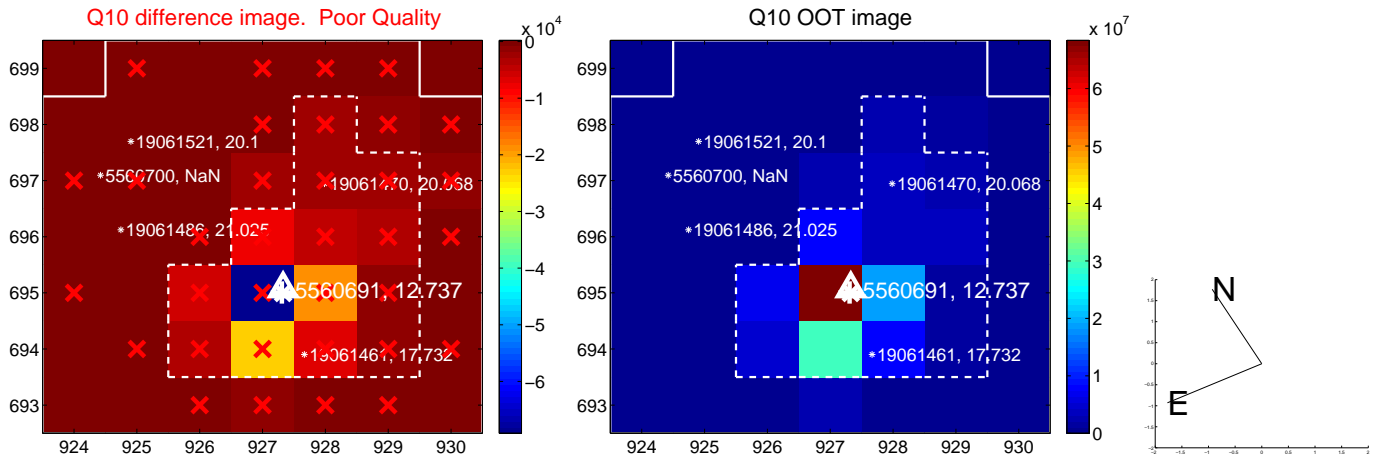
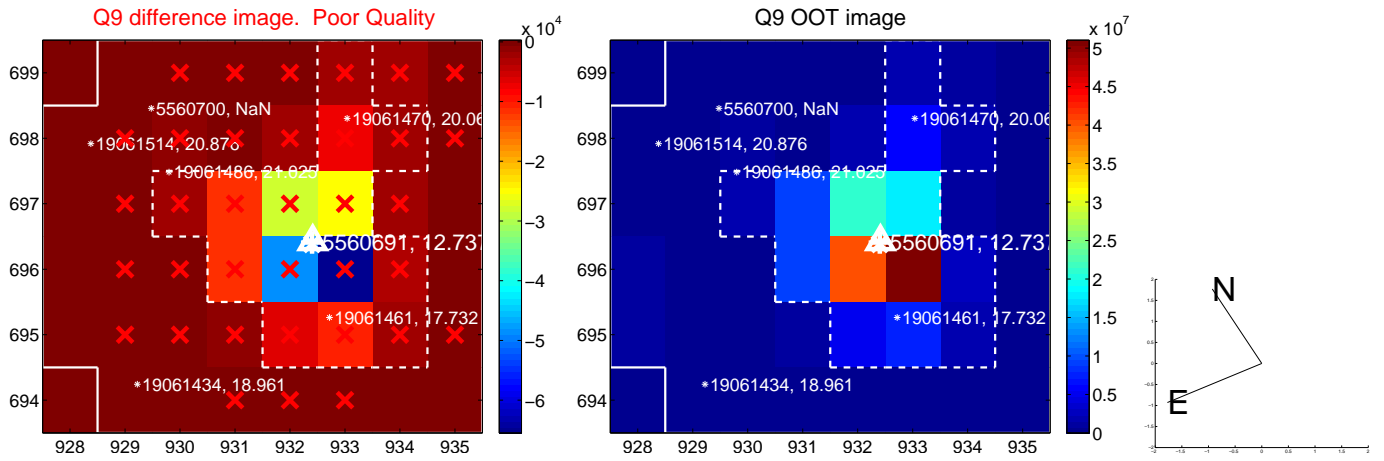
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



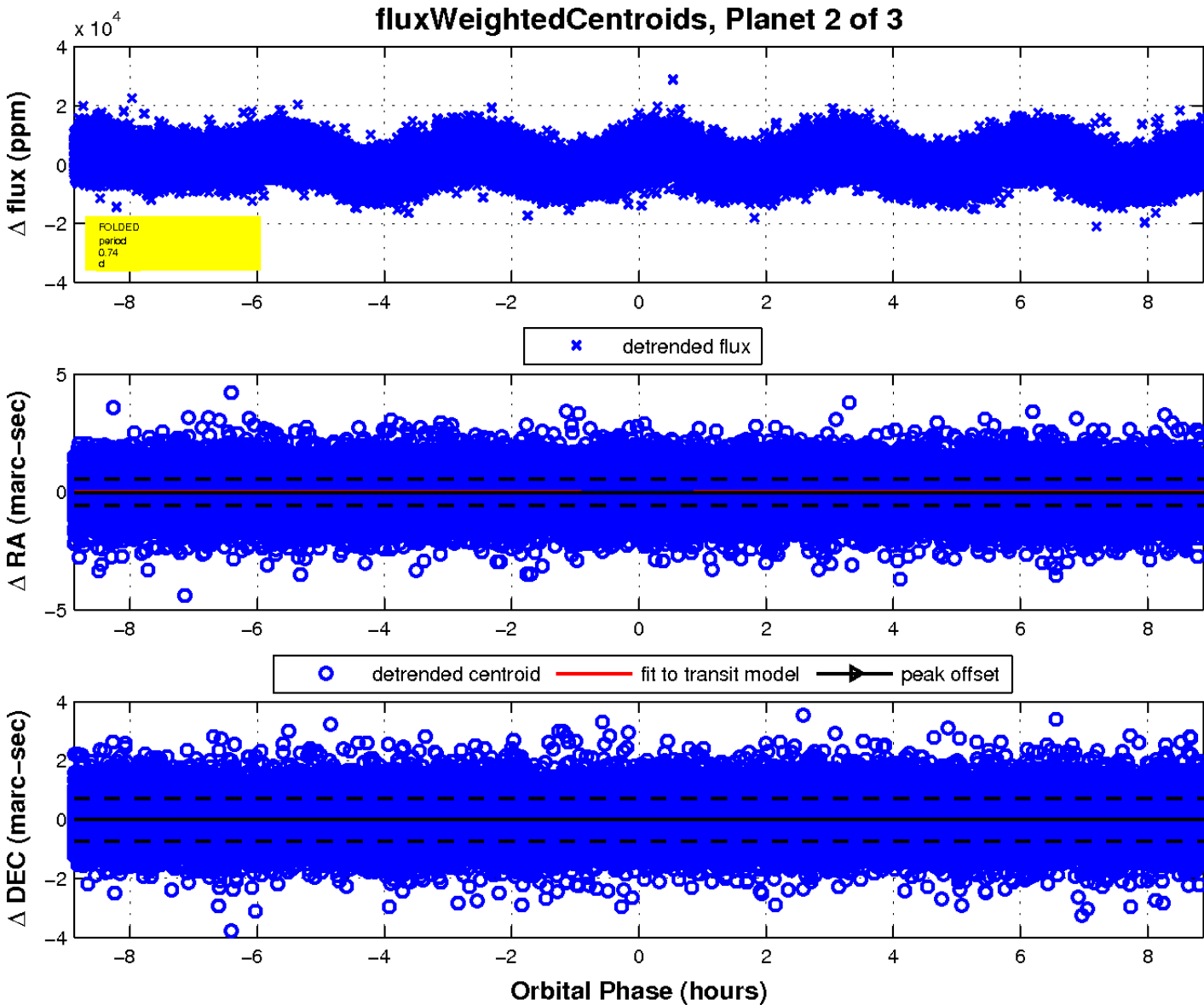
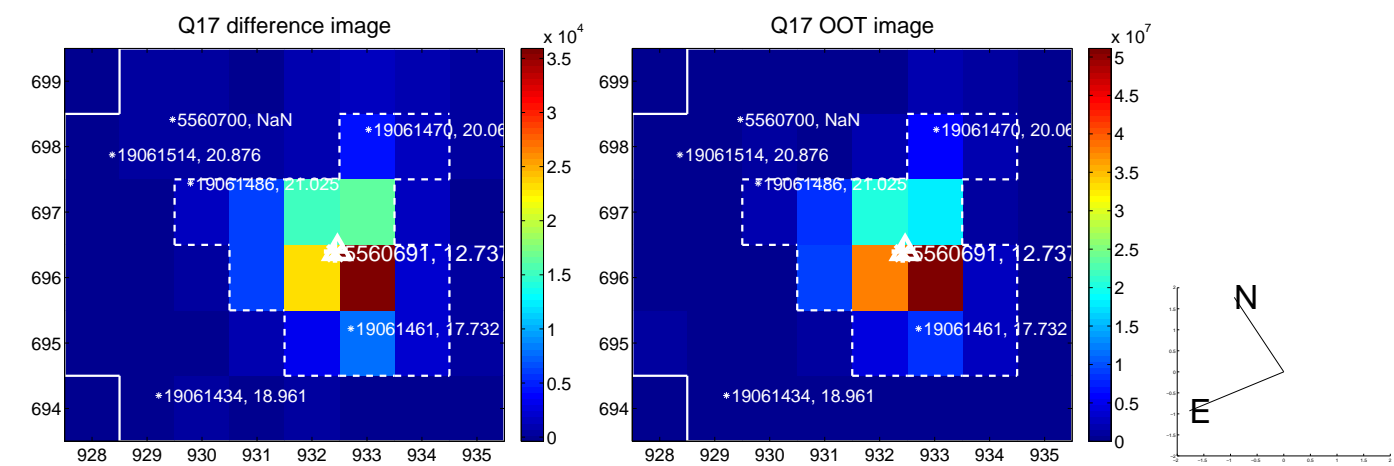
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

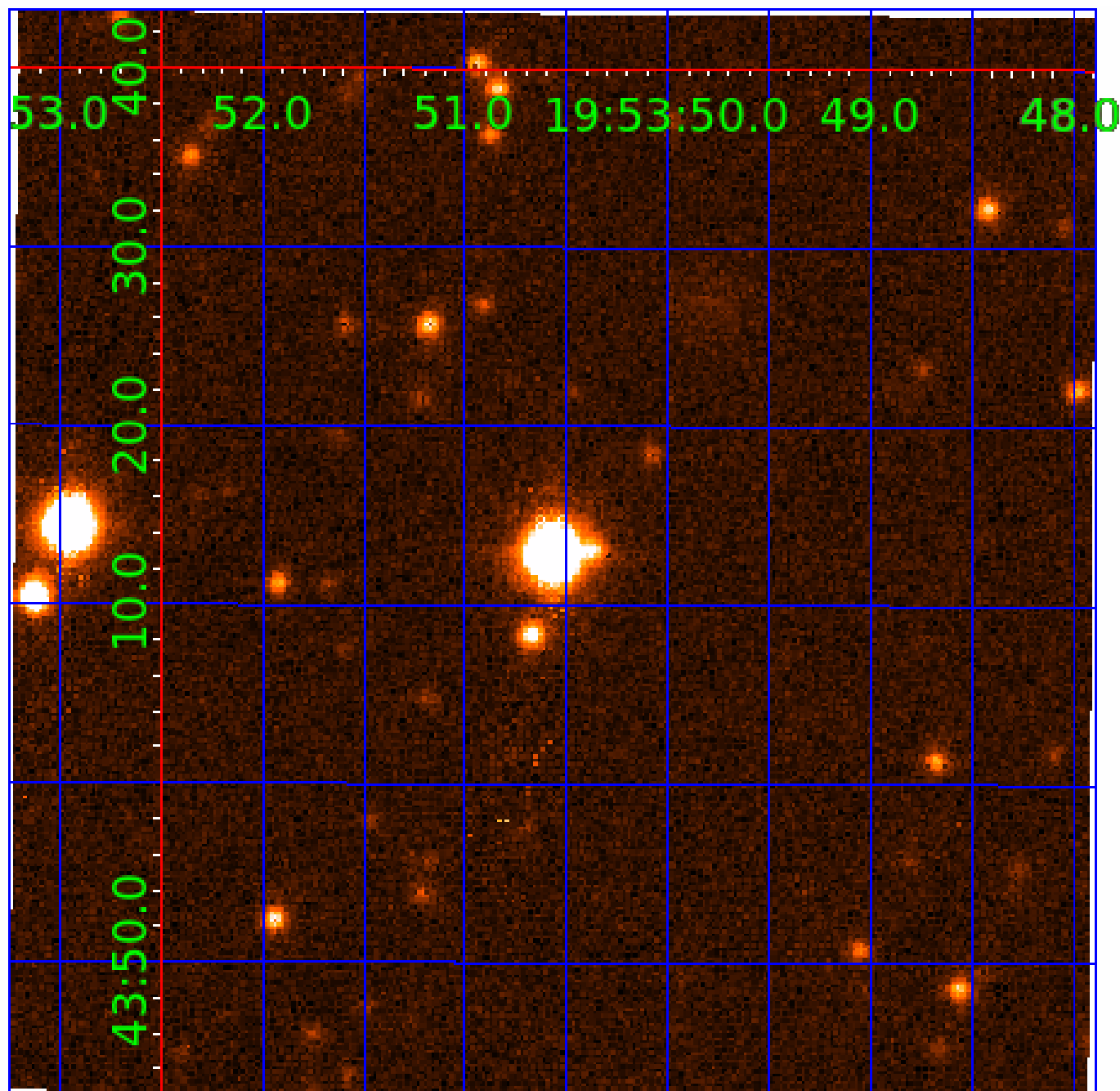


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005560691

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})
005560691-01	OBS	No	0.740069	131.971089	566.1	1.104	10.7	8.7	1.31	6609	3.64	10132.13
005560691-02	OBS	No	0.740083	131.886011	1677.7	3.320	13.8	19.2	1.31	6609	6.27	10131.89
005560691-03	OBS	No	0.740071	131.598494	224.2	1.500	19.0	-1.0	1.31	6609	1.98	10132.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005560691-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
005560691-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS
005560691-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

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

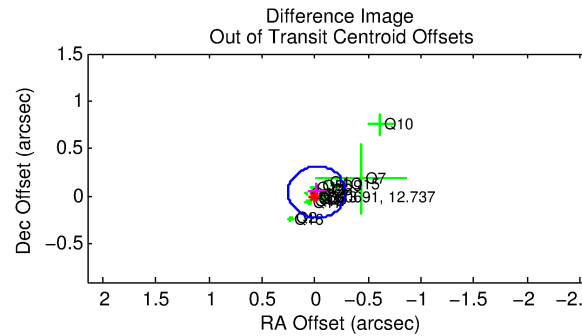
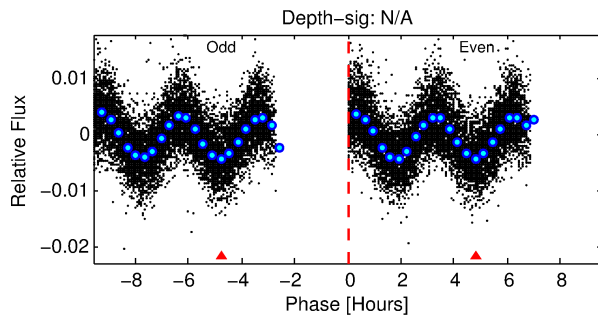
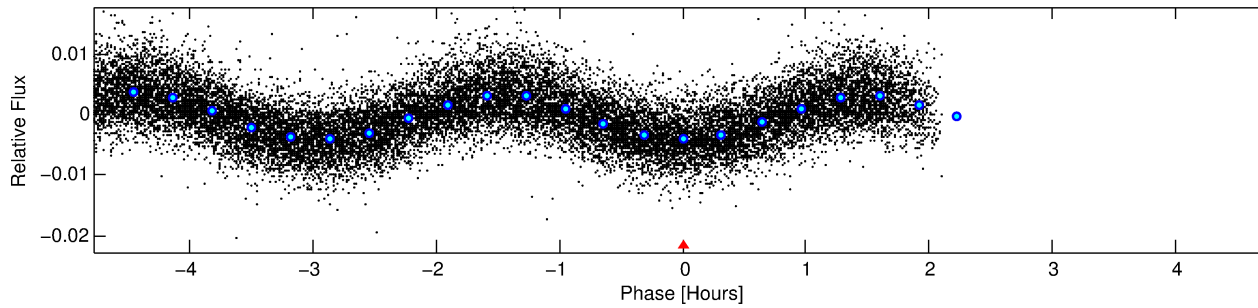
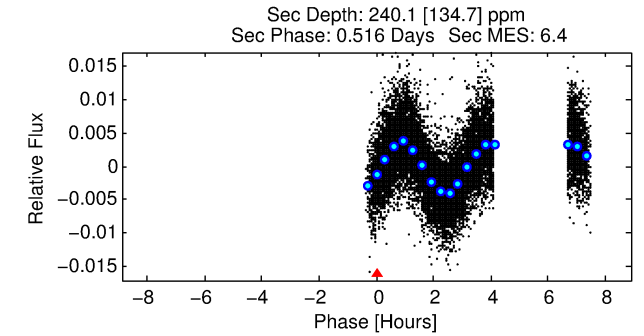
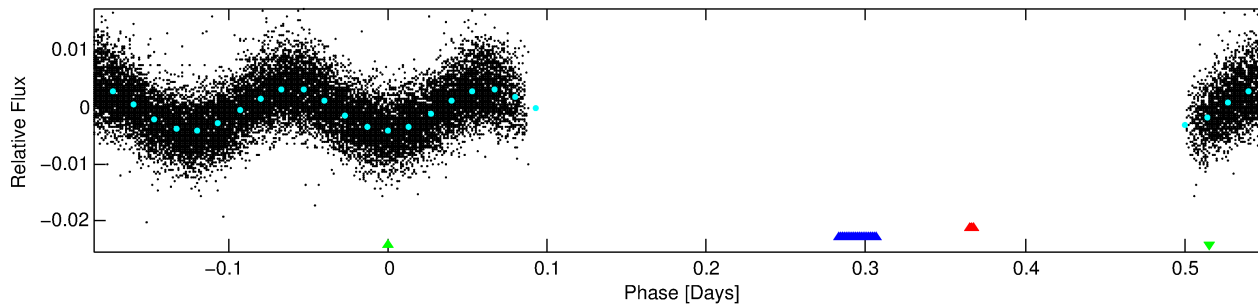
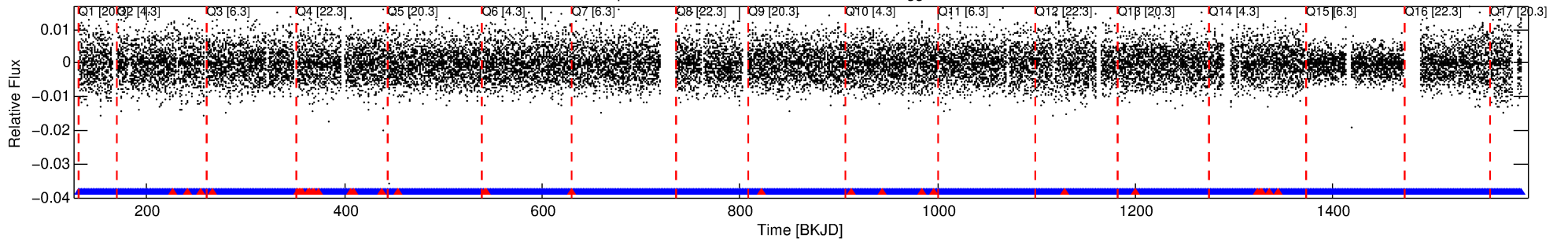
Ephemeris Match Information For 005560691-03

No Significant Match Found

DV One-Page Summary

KIC: 5560691 Candidate: 3 of 3 Period: 0.740 d

Kp: 12.74 R*: 1.31 Rs Teff: 6609.0 K Logg: 4.28 Fe/H: -0.200



TPS TCE Results:

Period = 0.74007 d
Epoch = 131.5985 BKJD

DV fit results are unavailable

DV Diagnostic Results:

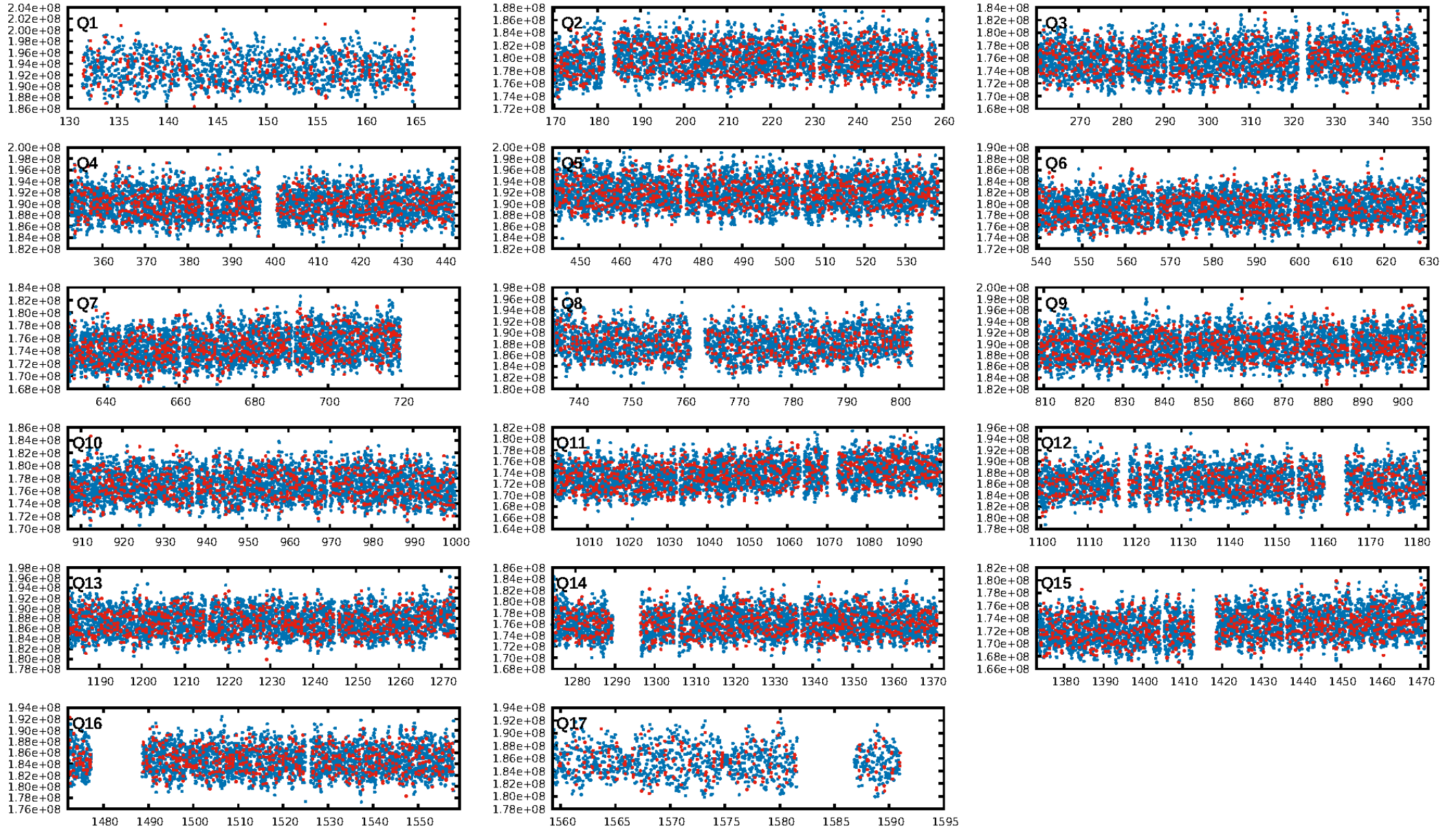
ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.98 [1691/1728]
GhostDiagnostic-chr: 1.697

Centroid-sig: 41.0%
Centroid-so: 0.021 arcsec [3.22σ]
OotOffset-rm: 0.047 arcsec [0.52σ]
KicOffset-rm: 0.104 arcsec [1.18σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.94 [16/17]
DiffImageOverlap-fno: 0.65 [11/17]

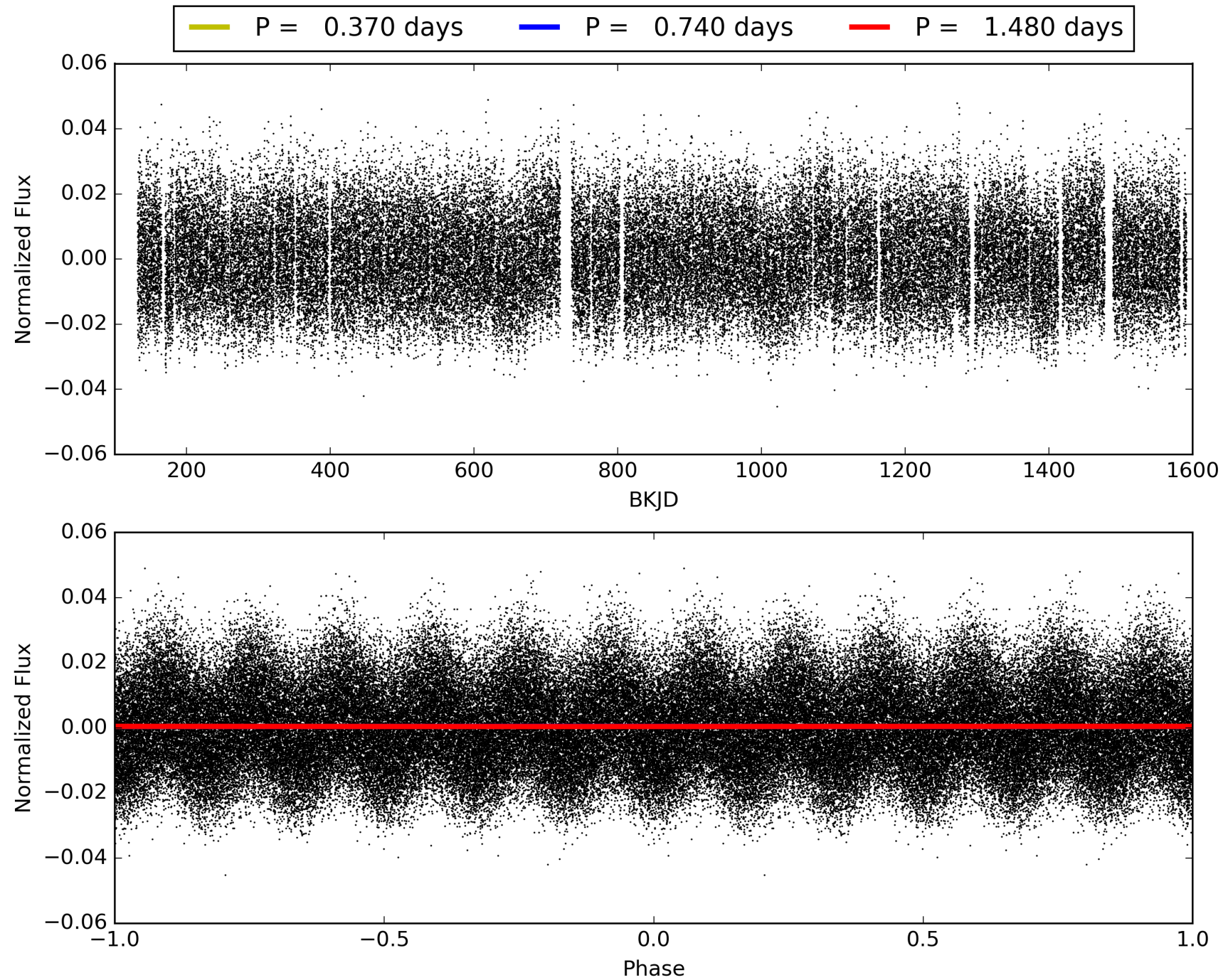
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 16:37:41 Z

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

TCE 005560691-03, PDC Light Curves

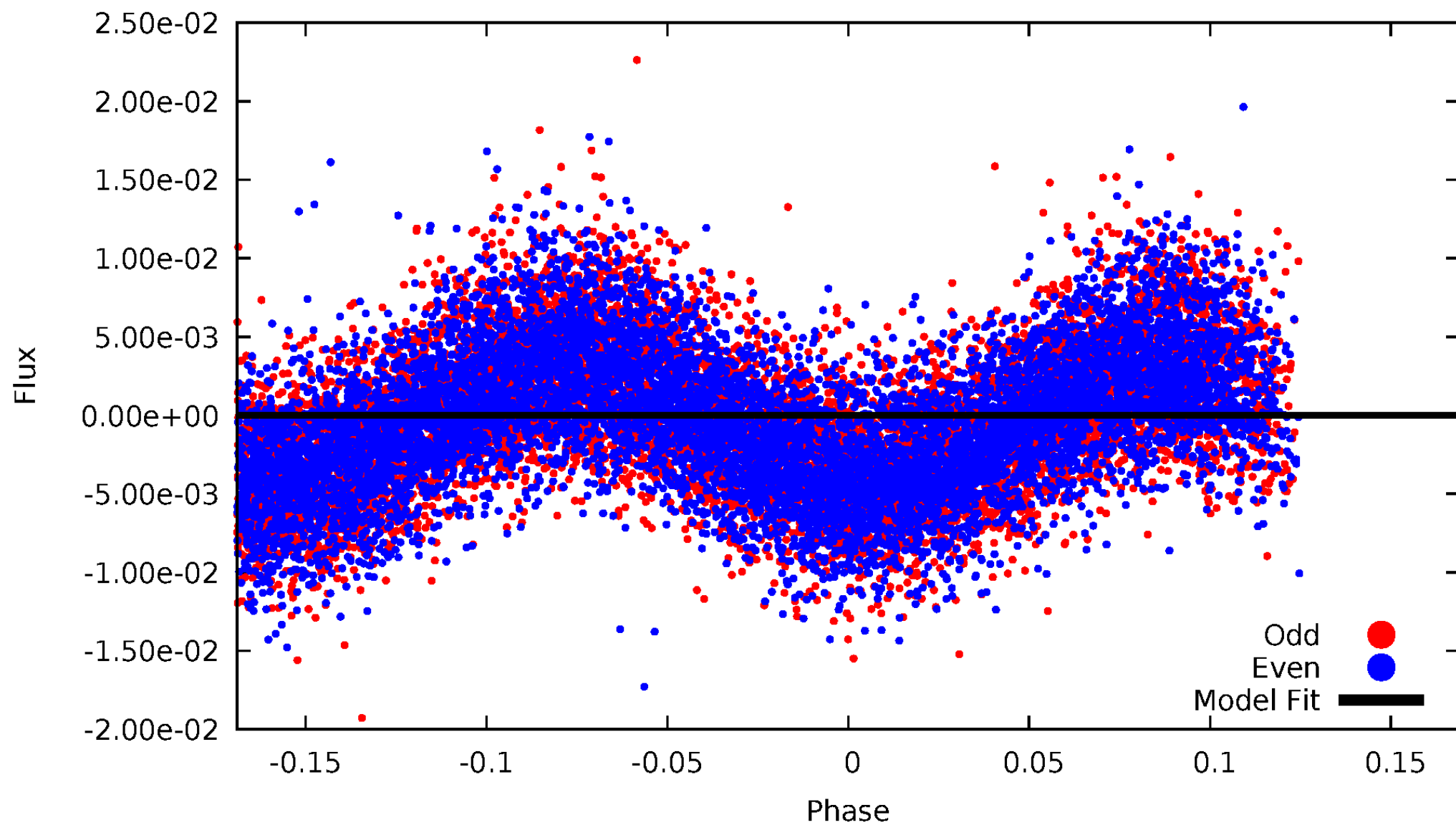


TCE 005560691-03



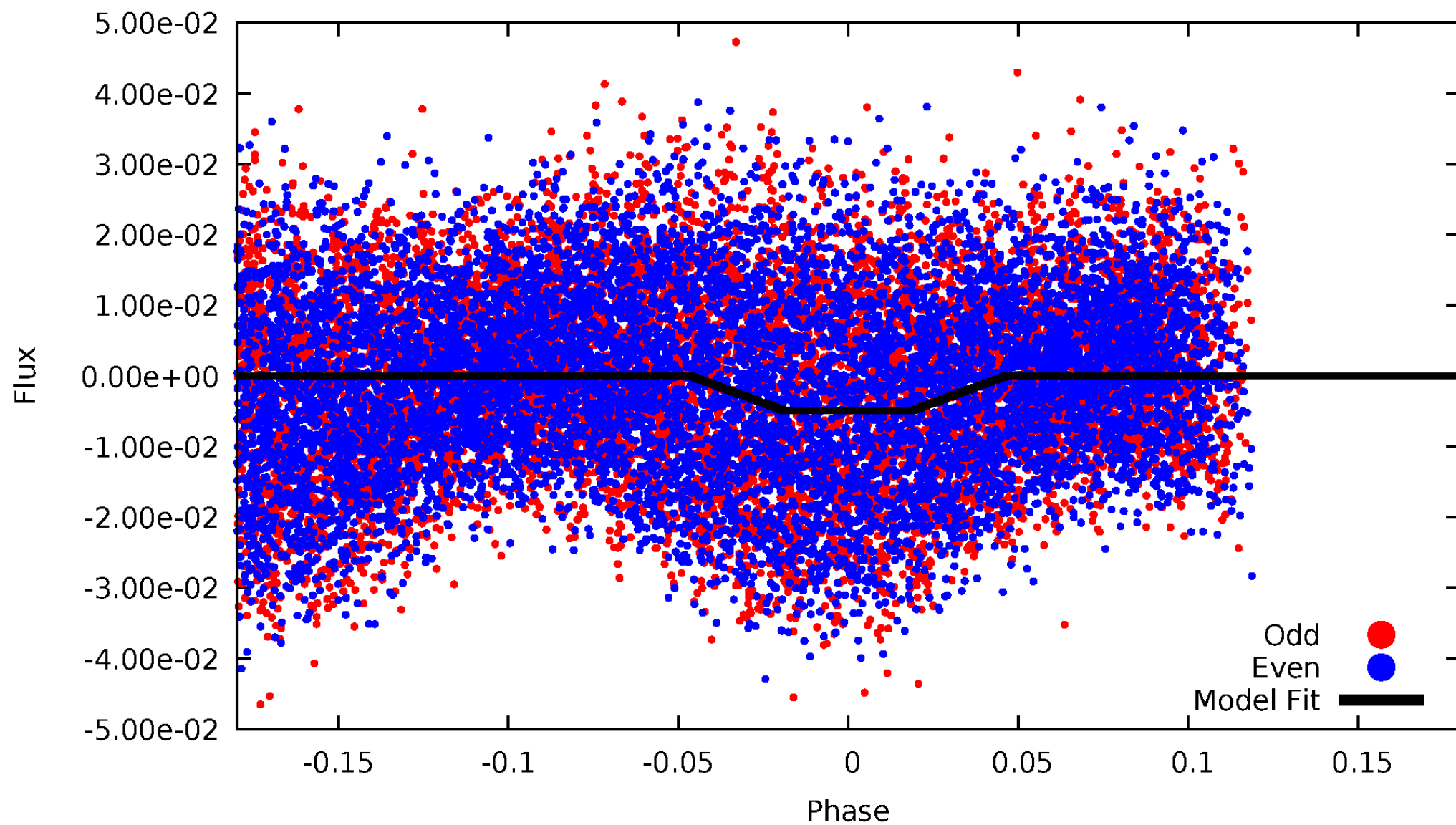
DV Odd/Even

TCE 005560691-03



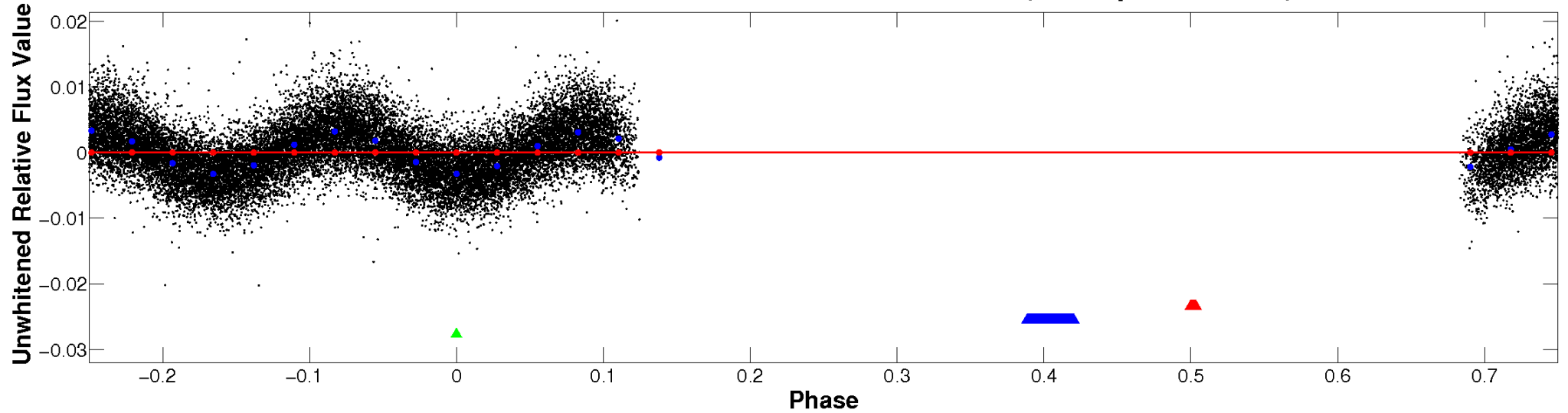
ALT Odd/Even

TCE 005560691-03

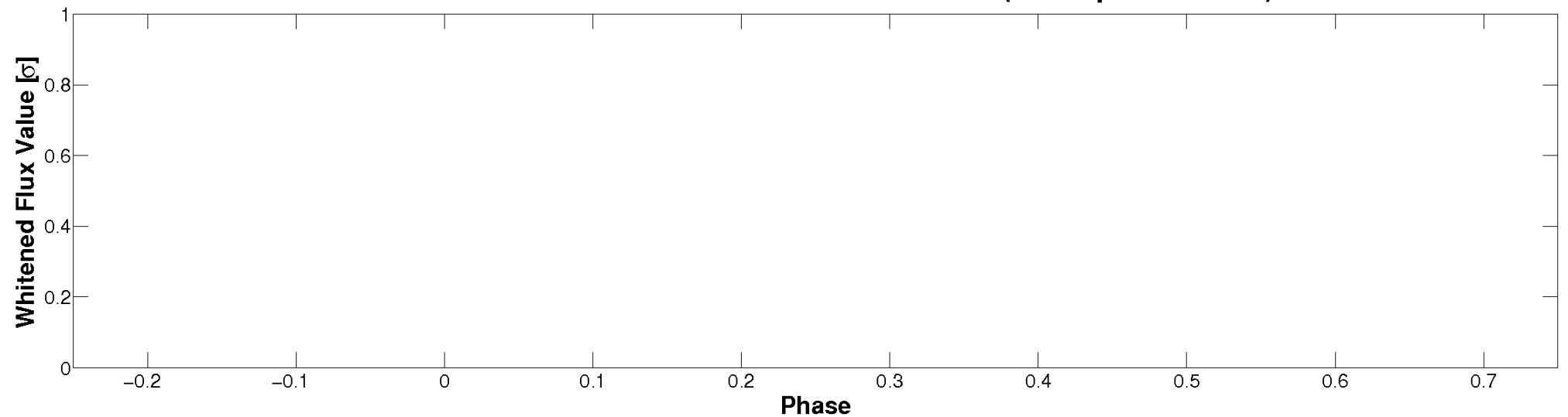


Non-Whitened Vs. Whitened Light Curve

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

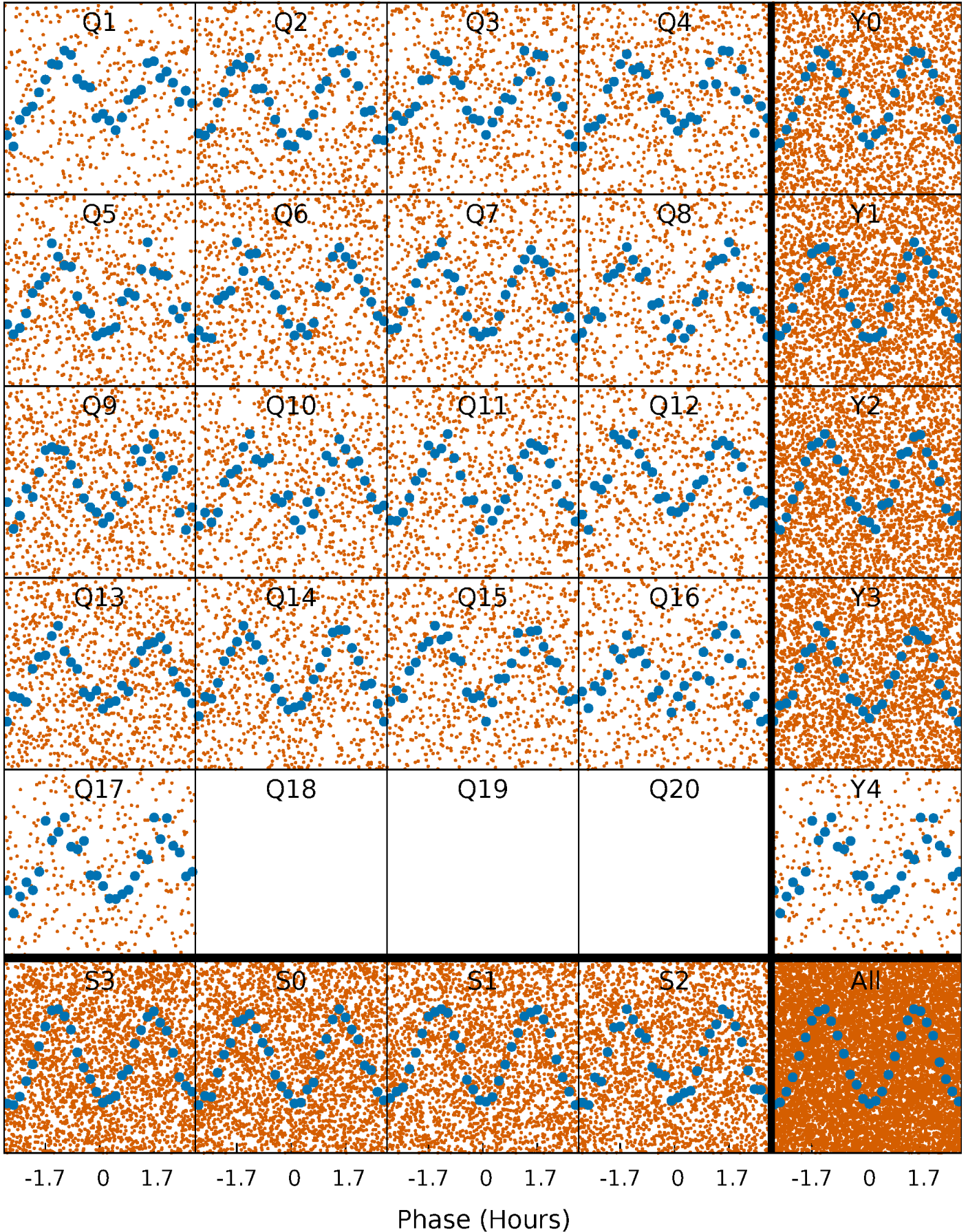


Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)



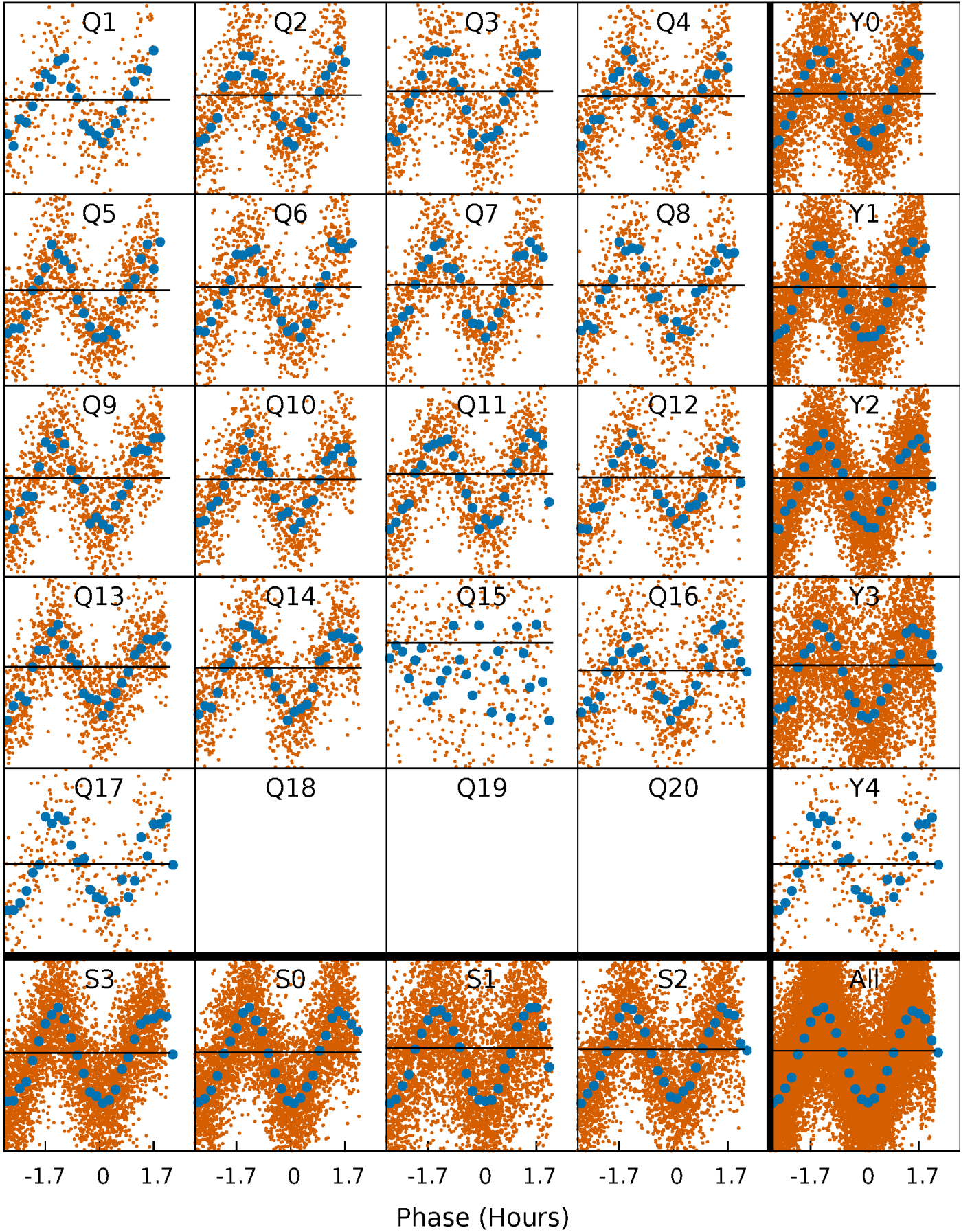
PDC Quarter-Phased Transit Curves

TCE 005560691-03 P= 0.740071 Days $T_0=131.598494$ (BKJD)



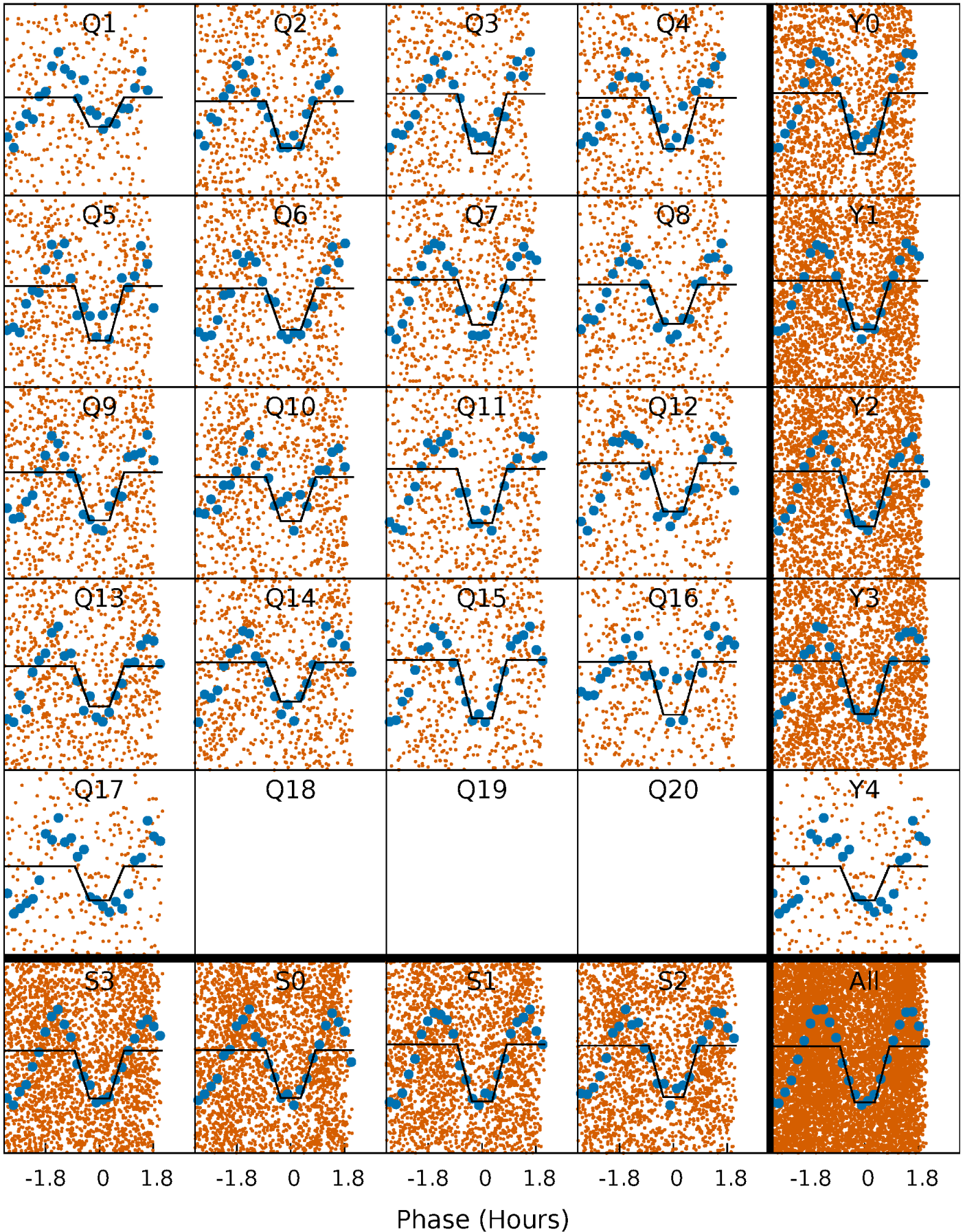
DV Quarter-Phased Transit Curves

TCE 005560691-03 $P = 0.740071$ Days $T_0 = 131.598494$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

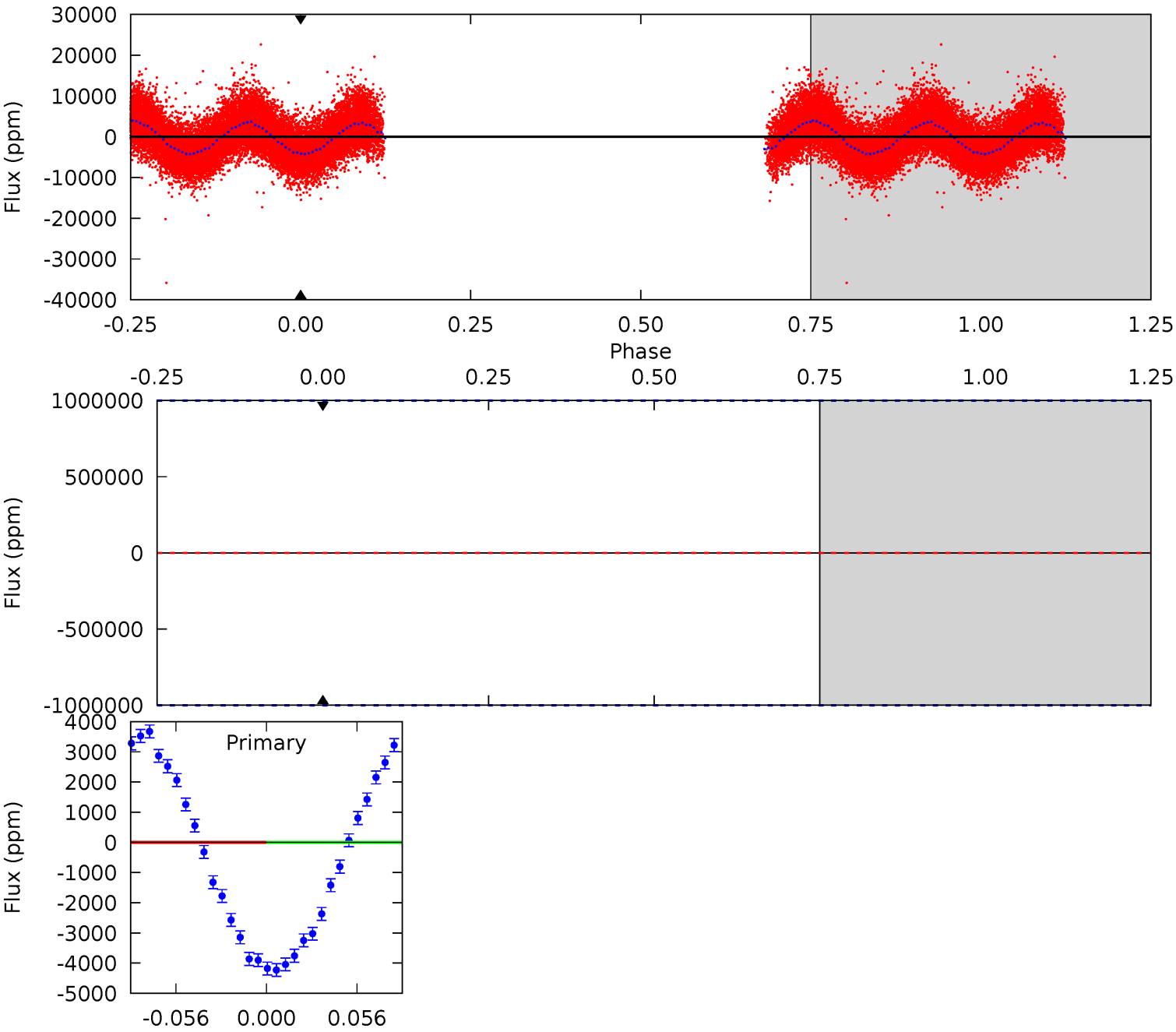
TCE 005560691-03 P= 0.740071 Days $T_0=131.602869$ (BKJD)



DV Model-Shift Uniqueness Test

005560691-03, P = 0.740071 Days, E = 130.858423 Days

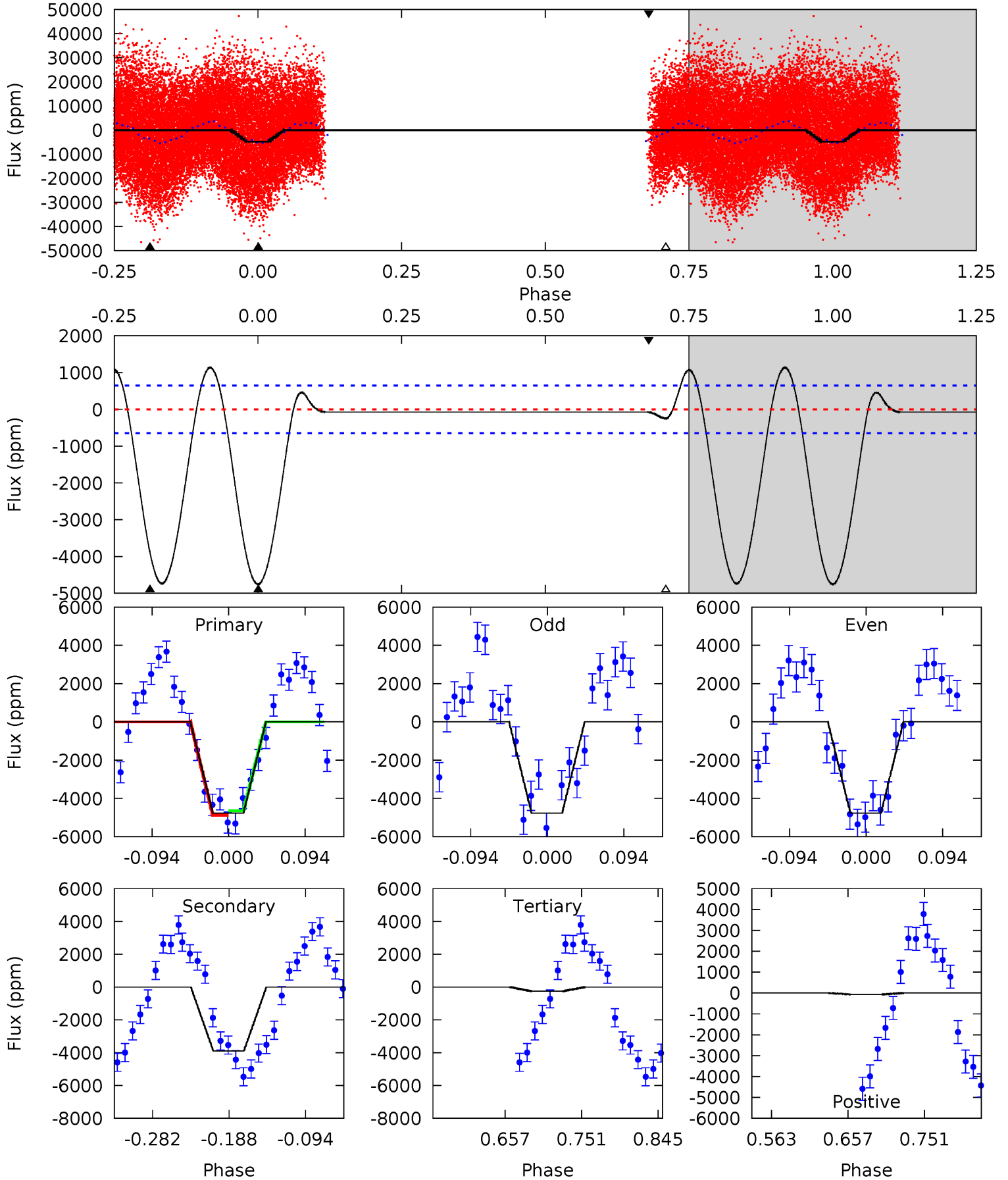
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005560691-03, P = 0.740071 Days, E = 130.862798 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
33.6	27.5	1.81	-0.49	4.58	1.68	3.13	31.8	34.1	25.6	28.0	0.01	0.96	0.19	0.63



Stellar Parameters For KIC 005560691

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6609^{+149}_{-216}	$4.282^{+0.105}_{-0.195}$	$-0.200^{+0.250}_{-0.300}$	$1.309^{+0.391}_{-0.210}$	$1.202^{+0.187}_{-0.170}$	$0.754^{+0.370}_{-0.376}$
	+2%/-3%	+2%/-5%	+125%/-150%	+30%/-16%	+16%/-14%	+49%/-50%
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 005560691-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$10.74^{+11.18}_{-7.24}$	3600^{+249}_{-195}	-6163^{+34562}_{-22500}	$-4.998^{+214.713}_{-246.761}$
Alt.	-3893 ± 142	$15.13^{+15.17}_{-10.12}$	3606^{+292}_{-195}	5051^{+4519}_{-1425}	$2.618^{+21.641}_{-1.945}$

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

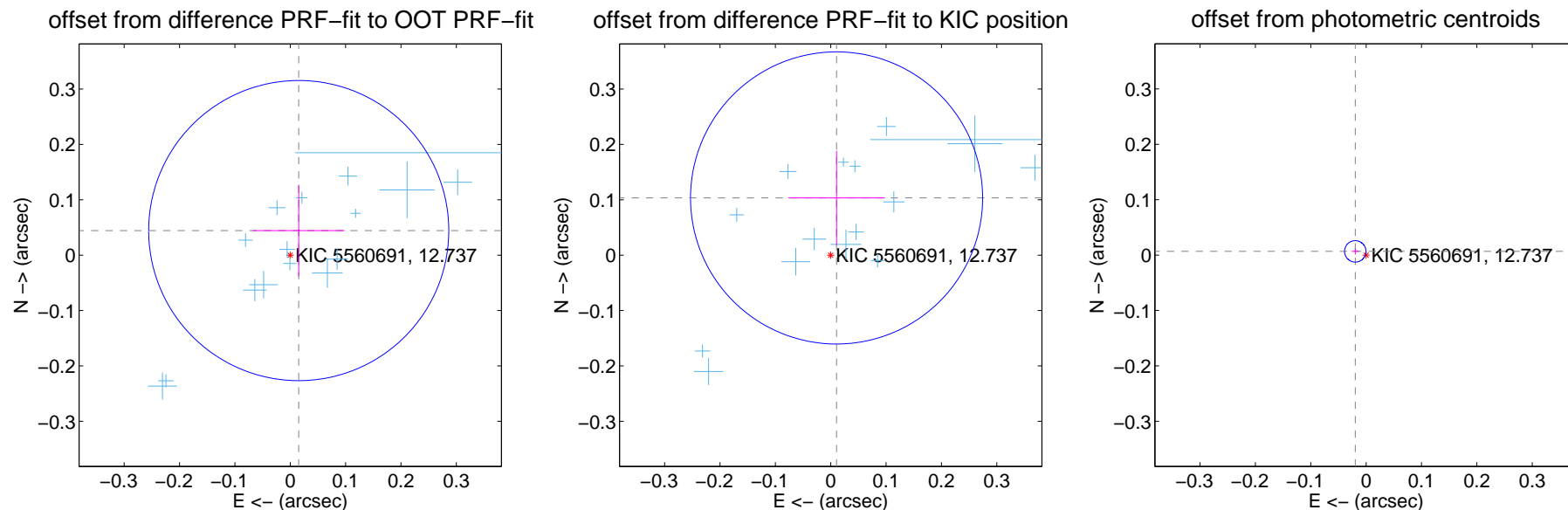
DV Centroid Data

Supplemental centroid analysis for 005560691-03. Kepler magnitude: 12.74. Transit SNR -1.00

There are 16 quarters with good PRF difference image offsets

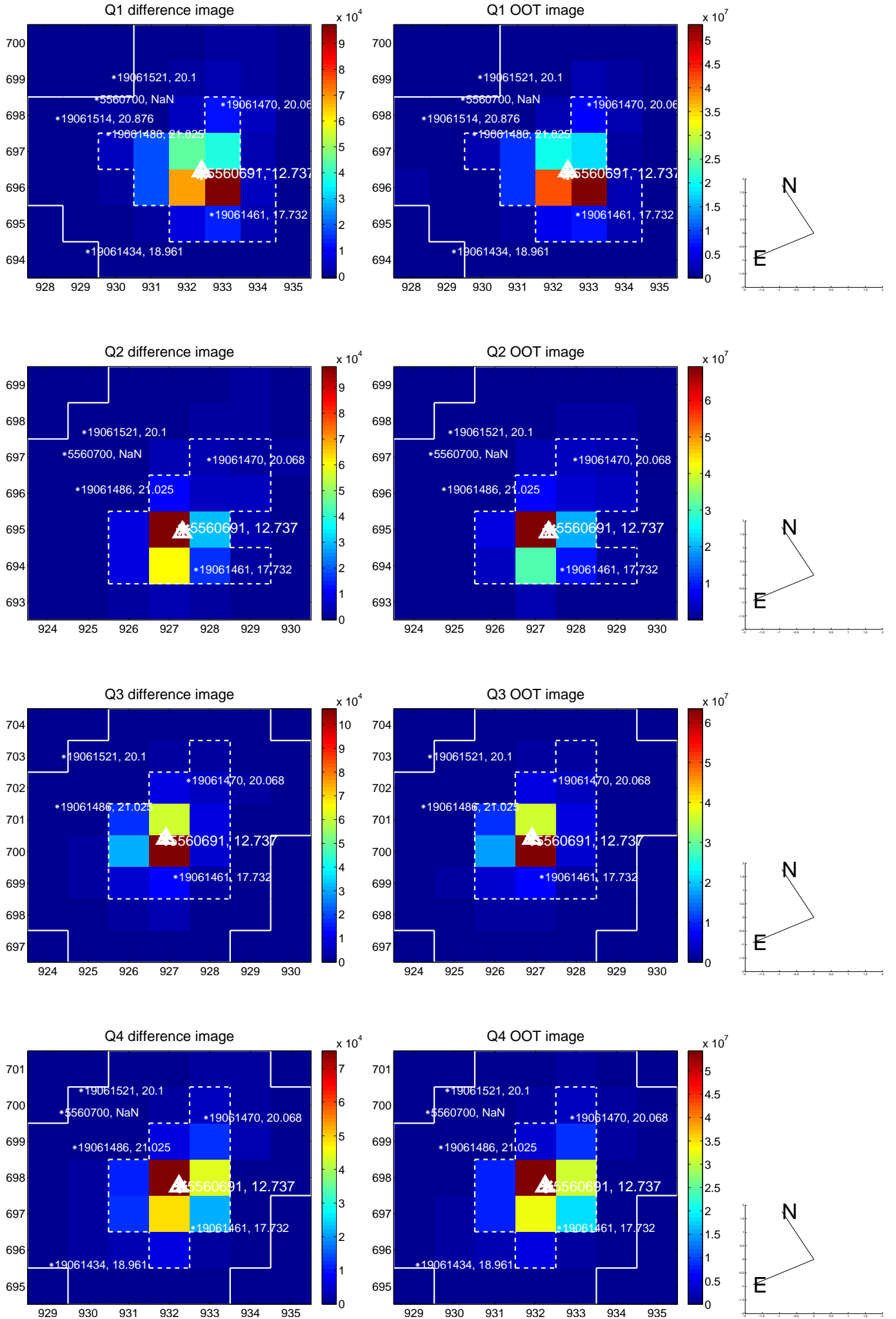
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.047 ± 0.090	0.52	-0.015 ± 0.083	0.044 ± 0.083
PRF-fit source offset from KIC position	0.104 ± 0.088	1.18	-0.011 ± 0.087	0.103 ± 0.085
photometric centroid source offset	0.02 ± 0.01	3.22	0.02 ± 0.01	0.01 ± 0.01

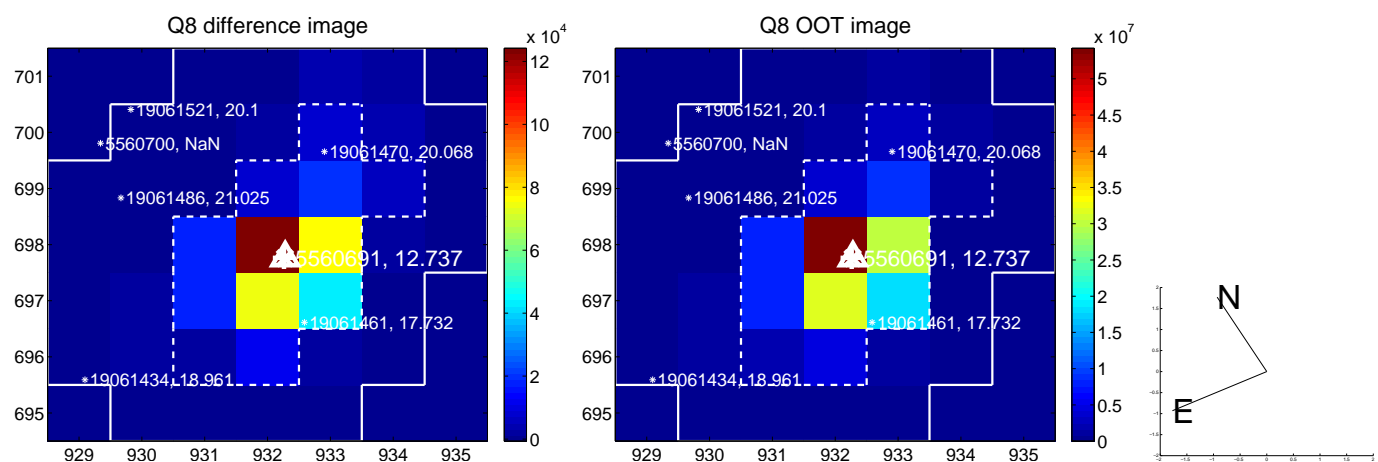
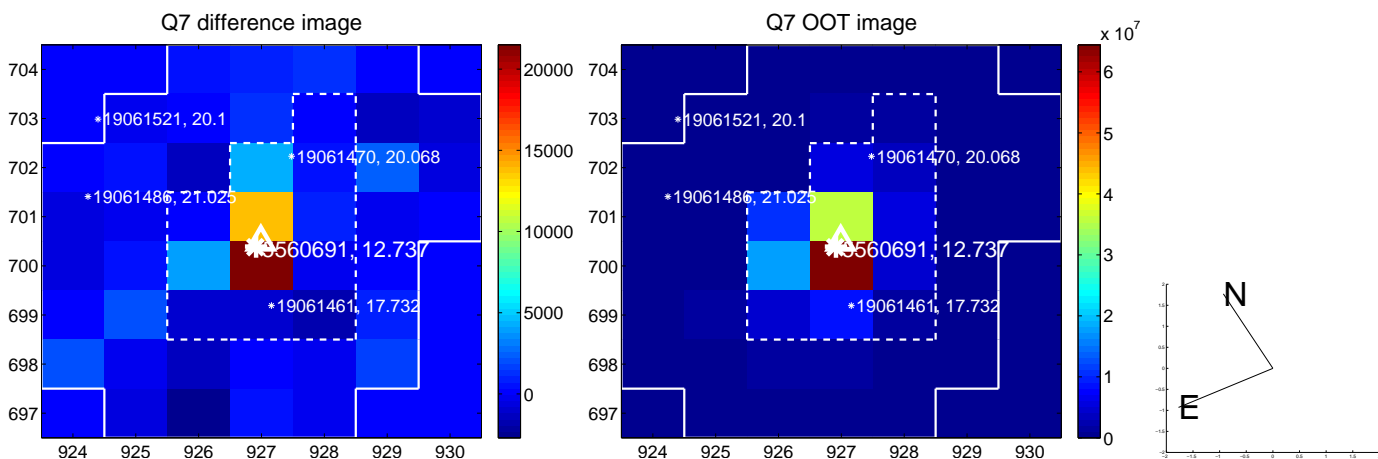
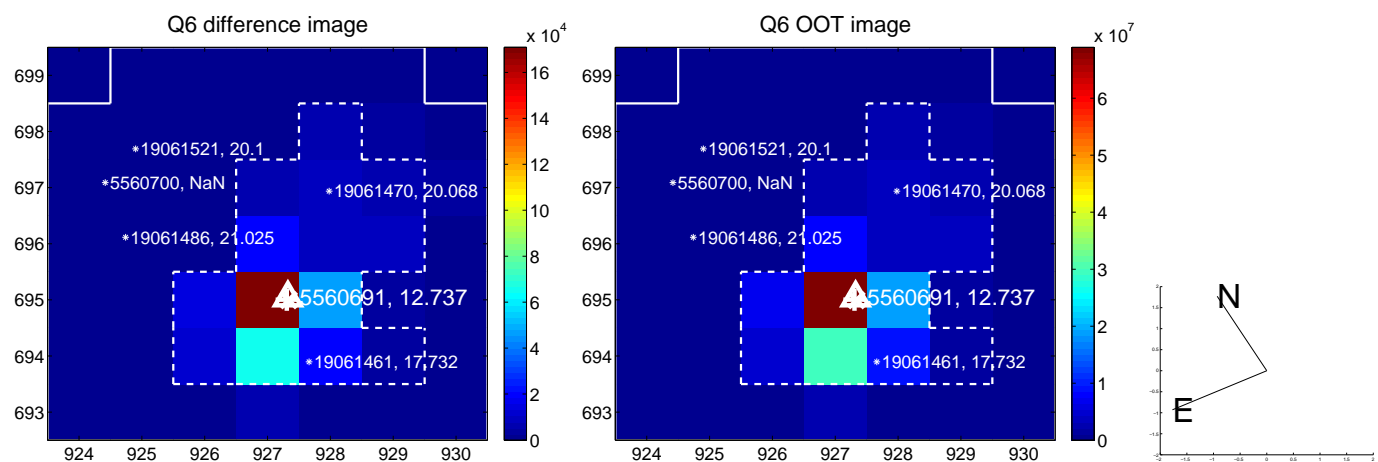
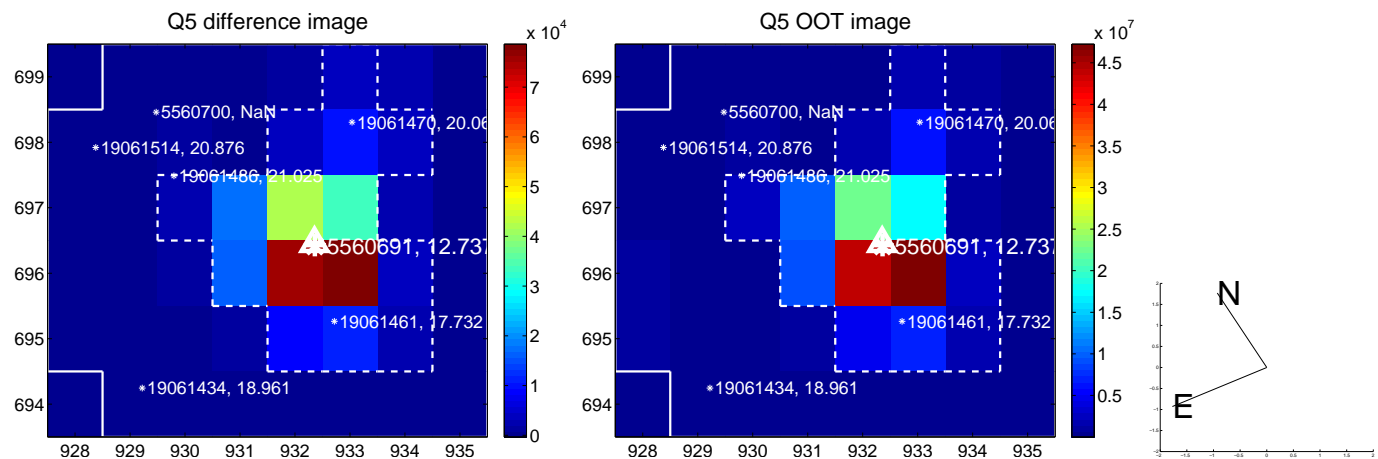


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

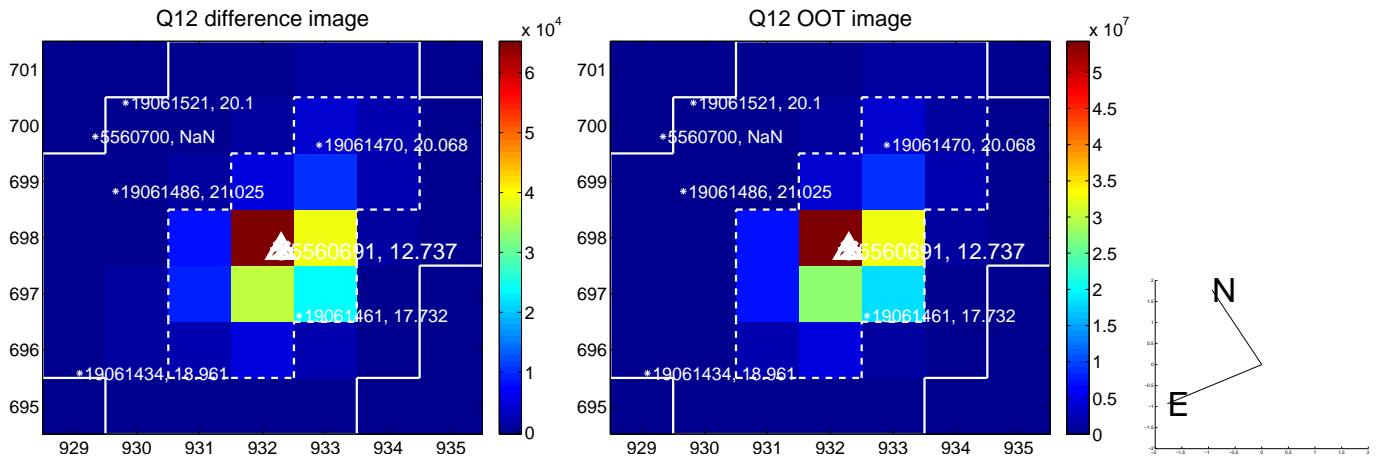
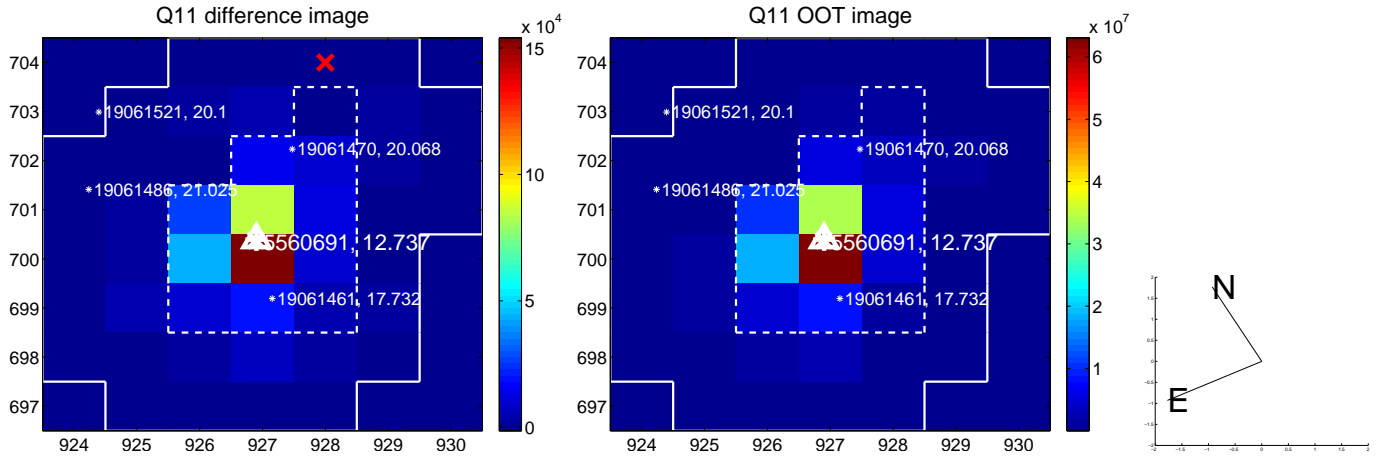
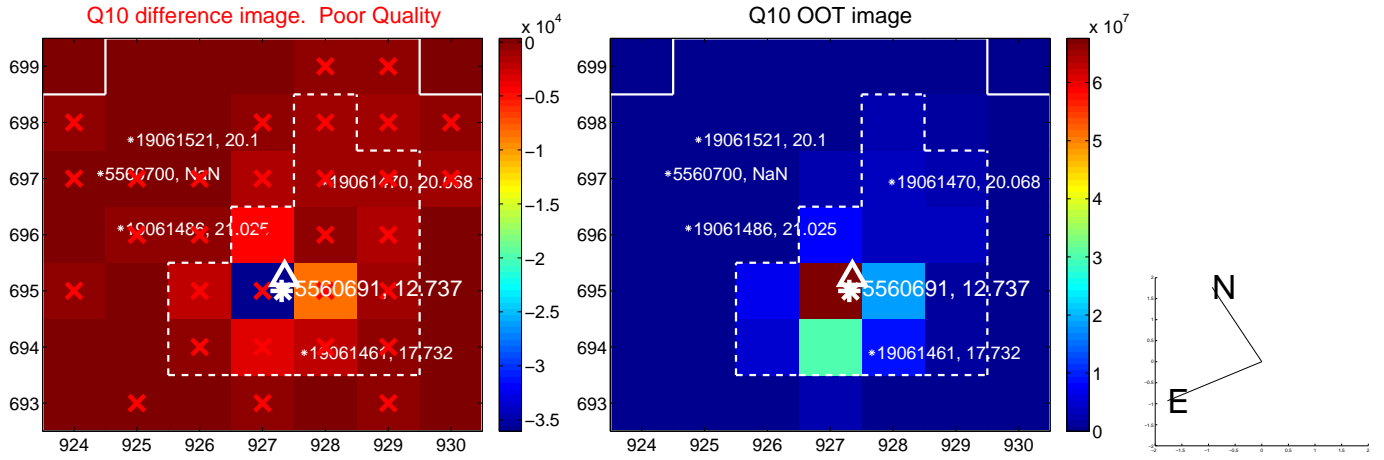
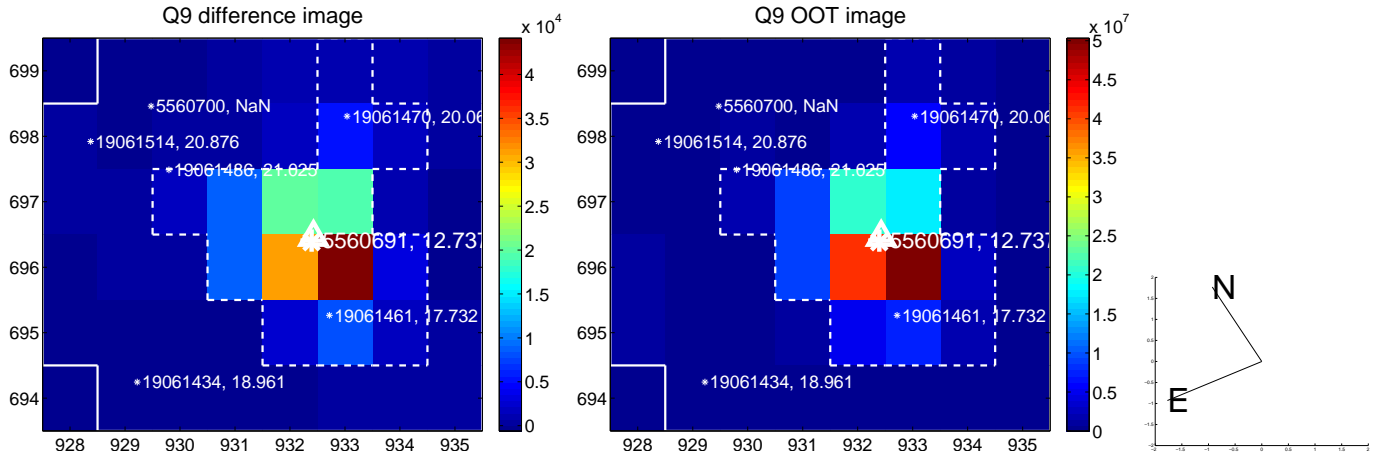
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



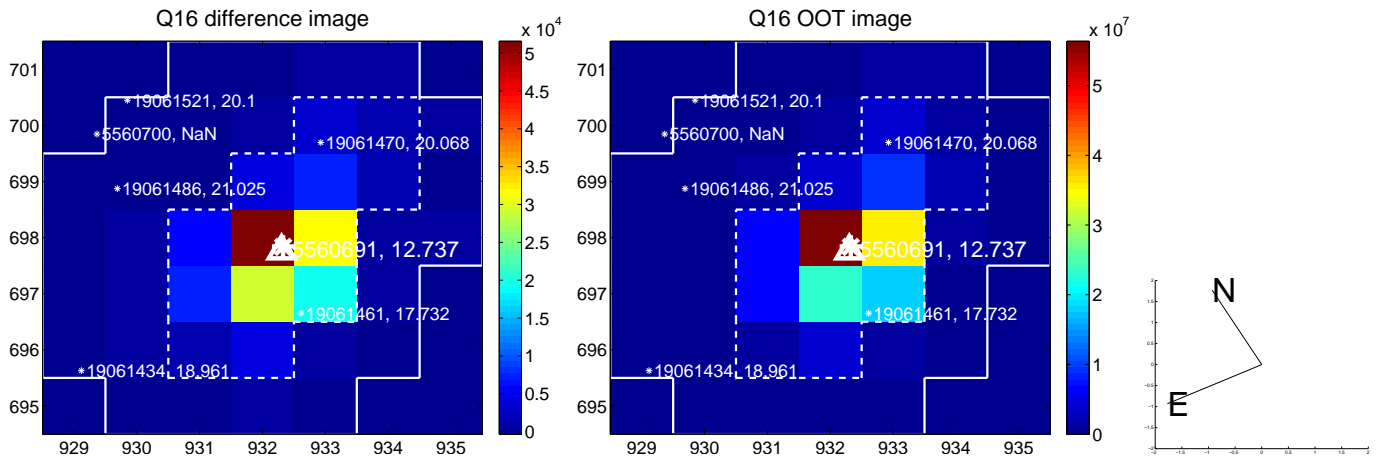
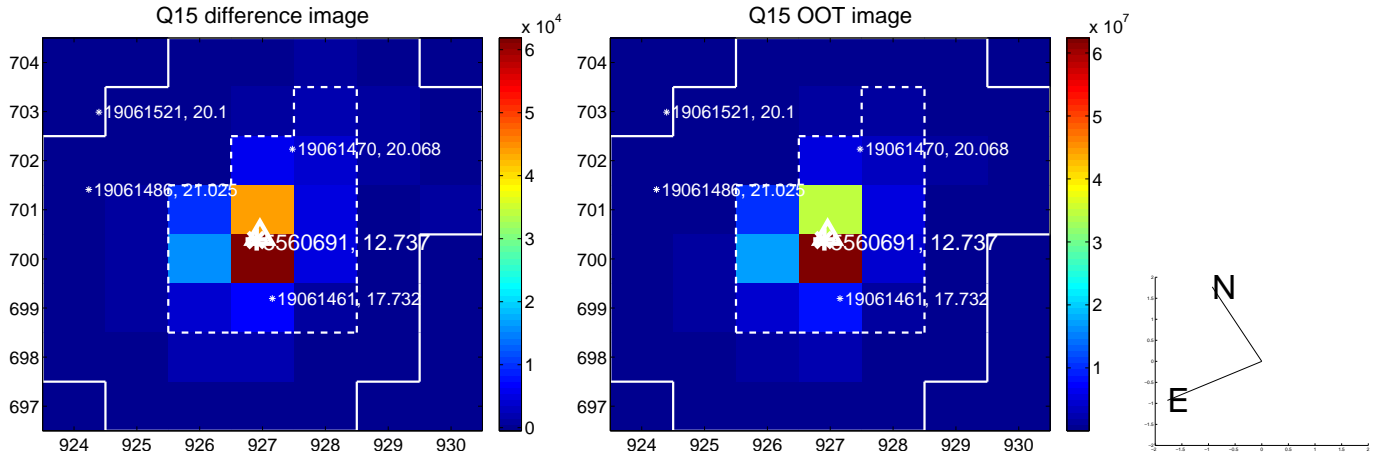
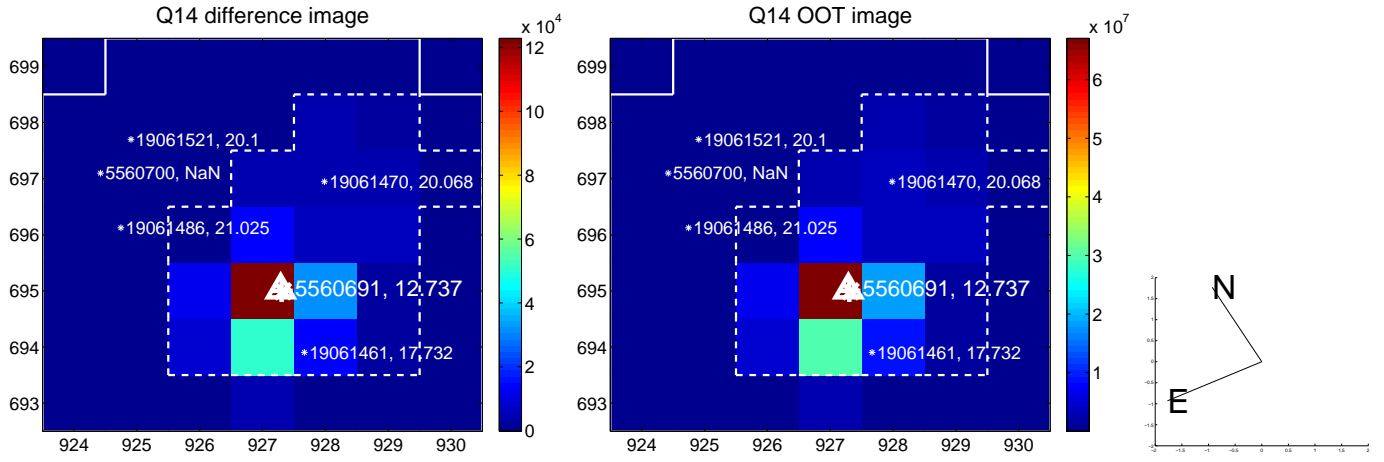
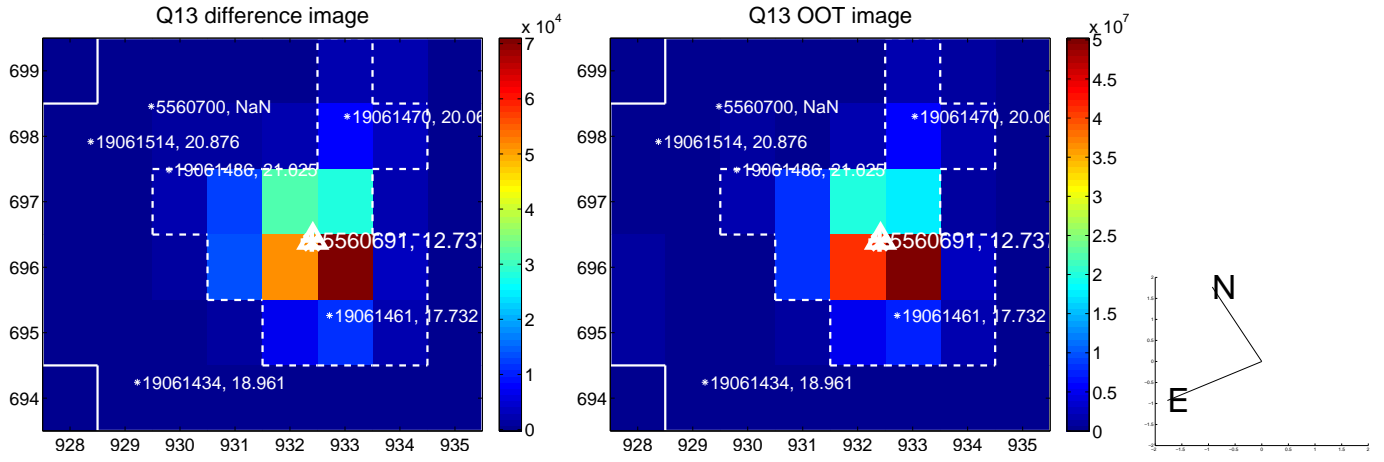
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



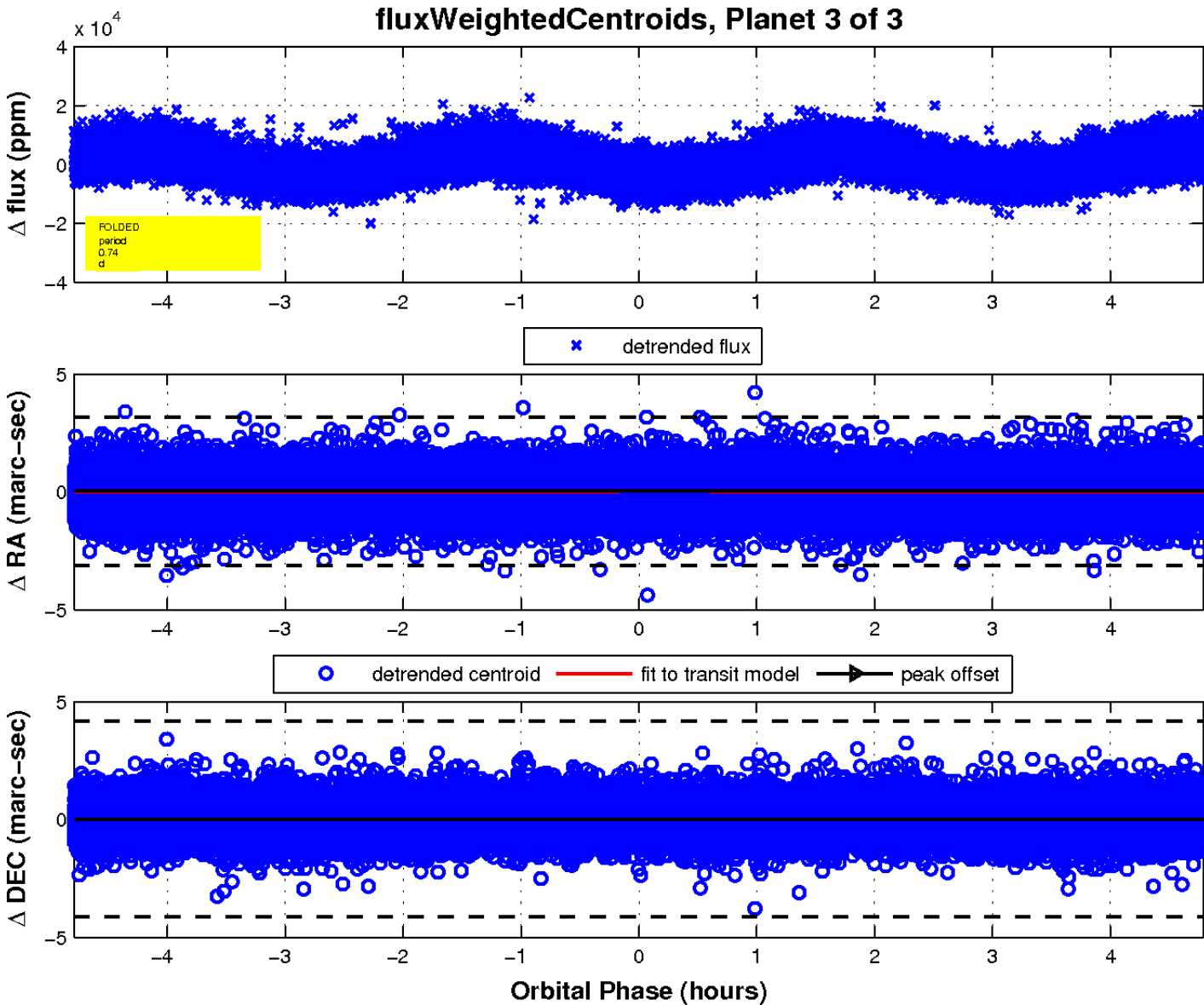
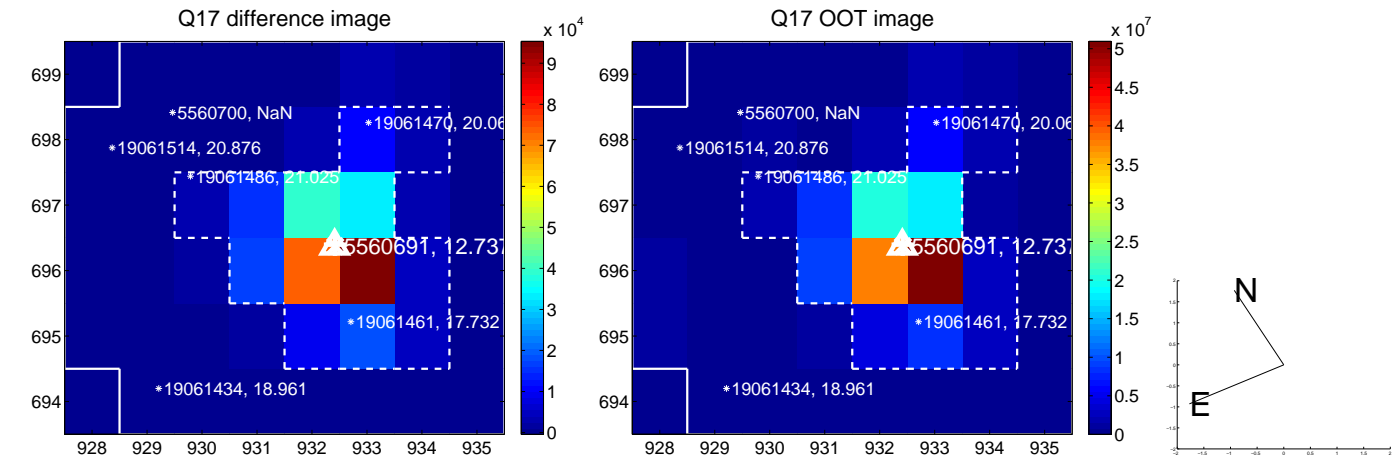
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

