

KIC 006535166

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})
006535166-01	OBS	No	1.130201	131.940647	39.9	4.405	7.5	8.3	0.77	5590	0.58	1285.40
006535166-02	OBS	No	276.282165	152.755085	945.3	12.500	15.7	-1.0	0.77	5590	2.35	0.84
006535166-03	OBS	No	415.994137	155.171293	972.6	10.800	13.9	7.6	0.77	5590	4.65	0.49

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006535166-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006535166-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
006535166-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_DV—INCONSISTENT_TRANS

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

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

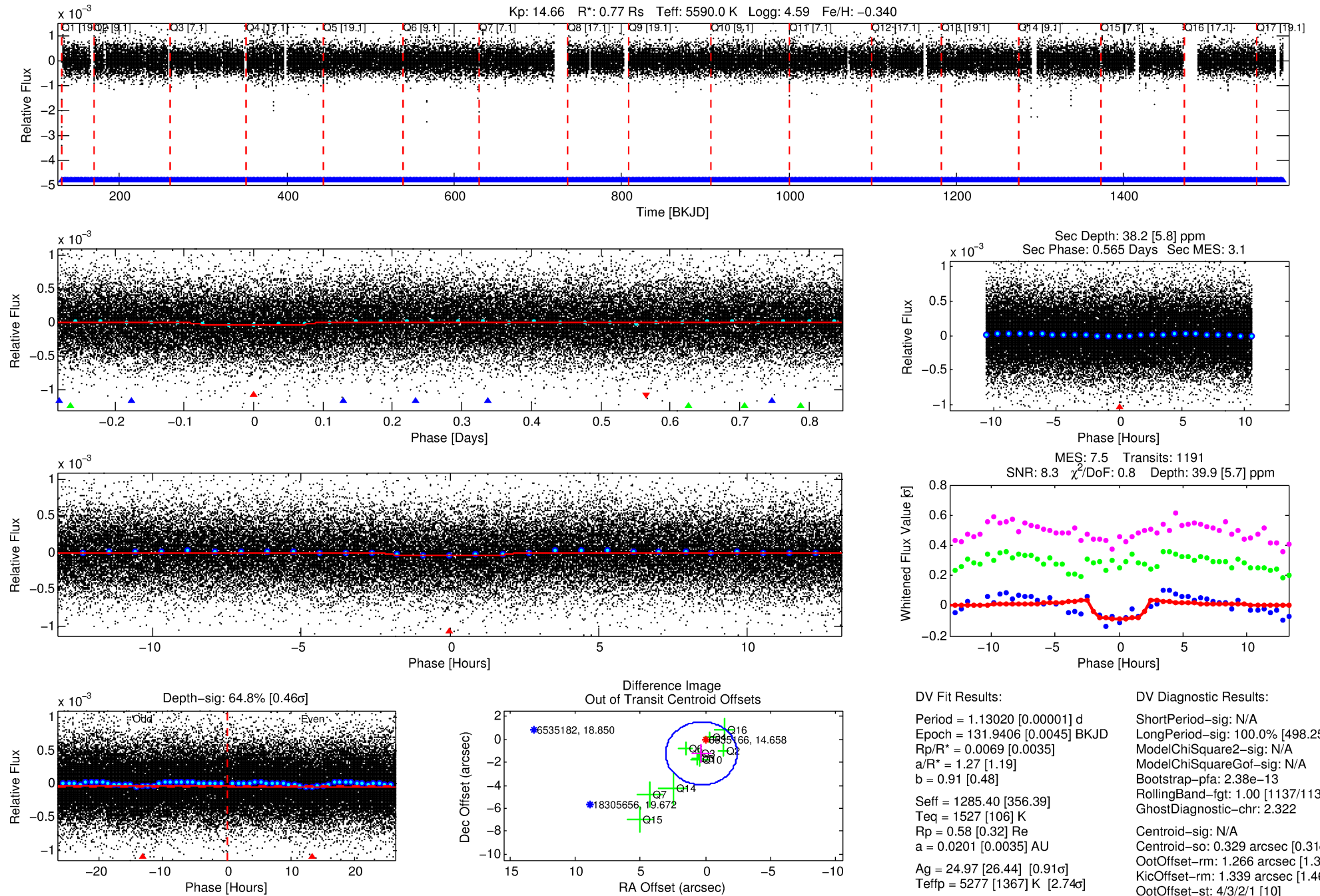
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006535166-01

No Significant Match Found

DV One-Page Summary

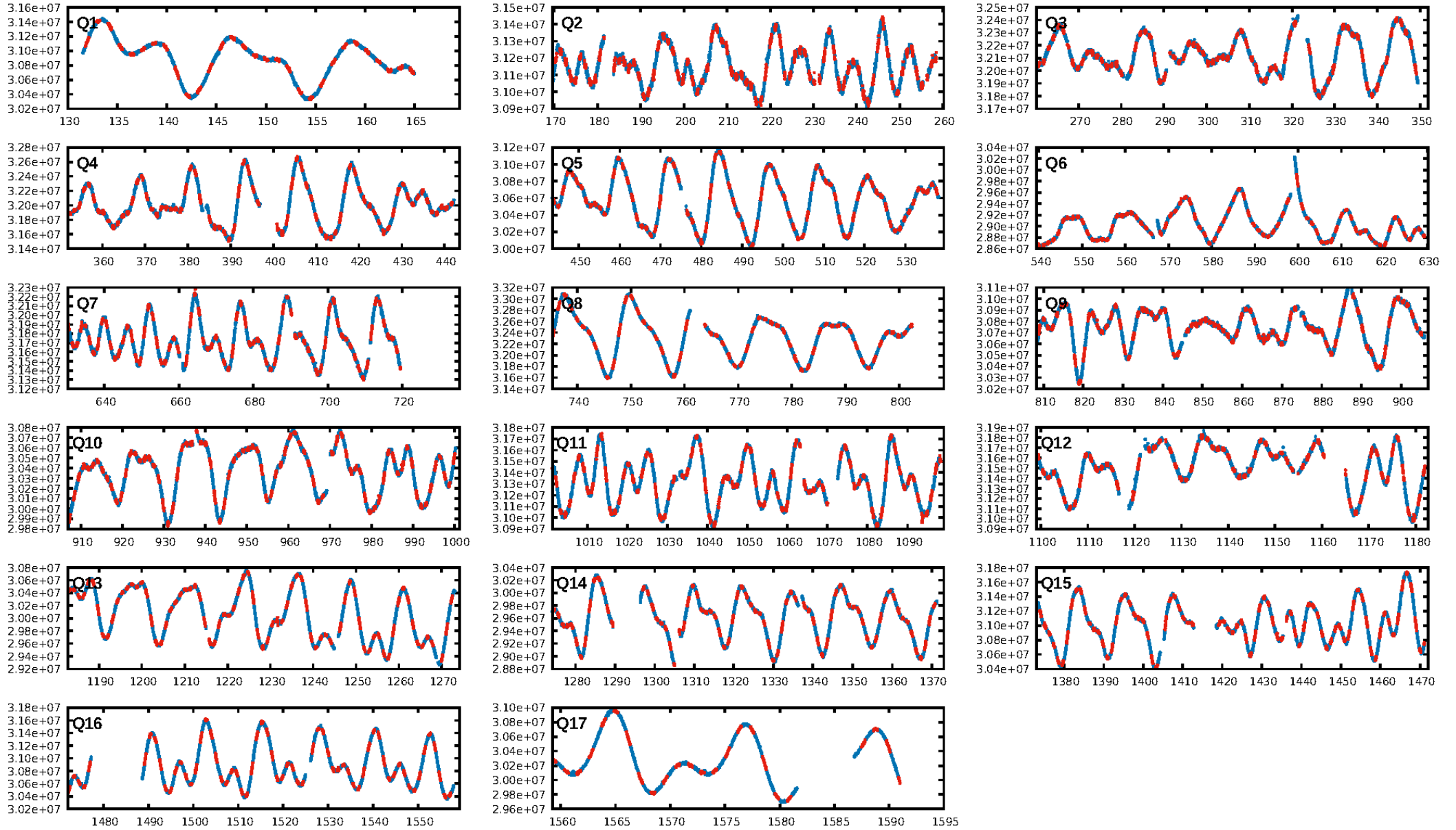
KIC: 6535166 Candidate: 1 of 3 Period: 1.130 d



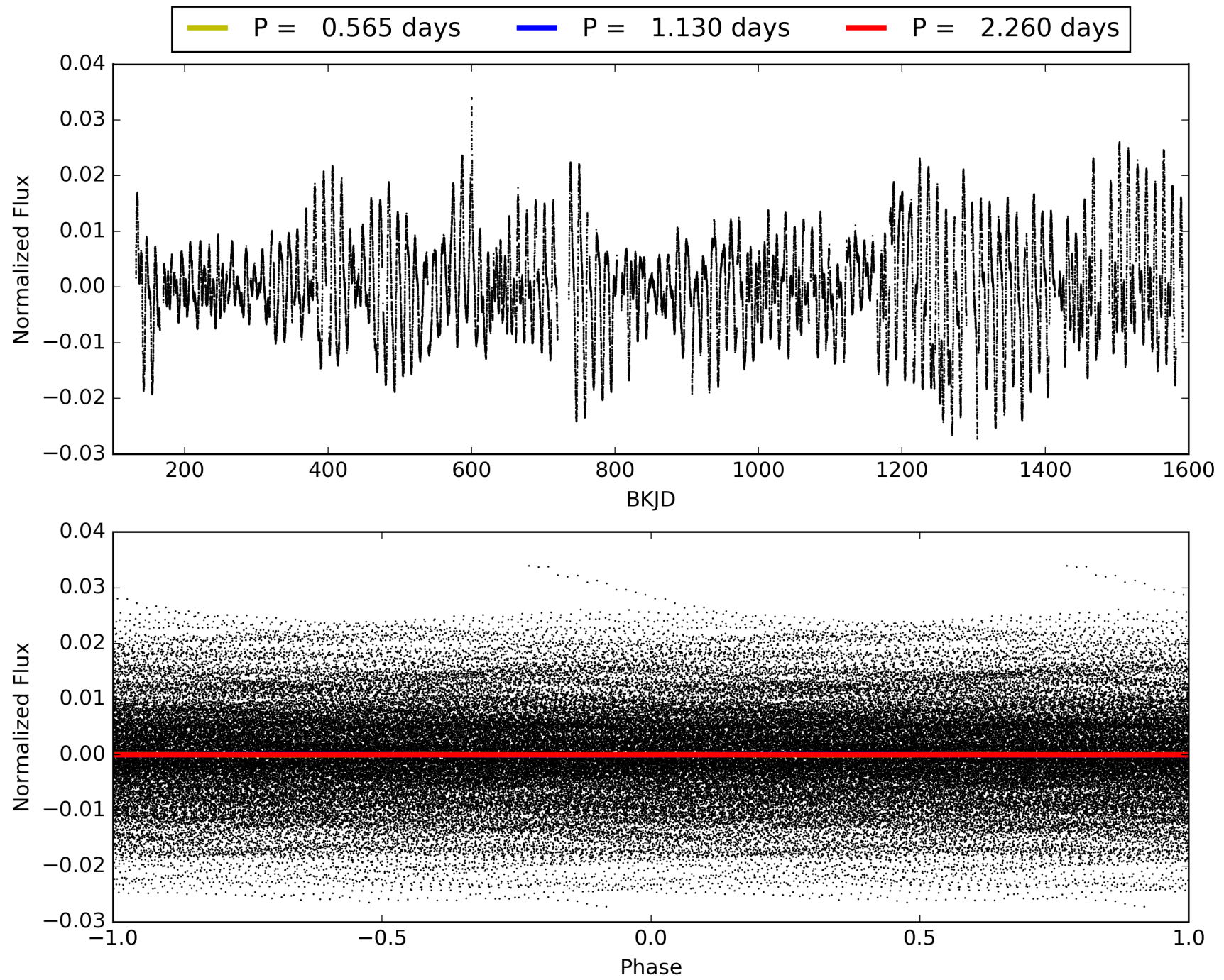
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 00:06:26 Z

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

TCE 006535166-01, PDC Light Curves

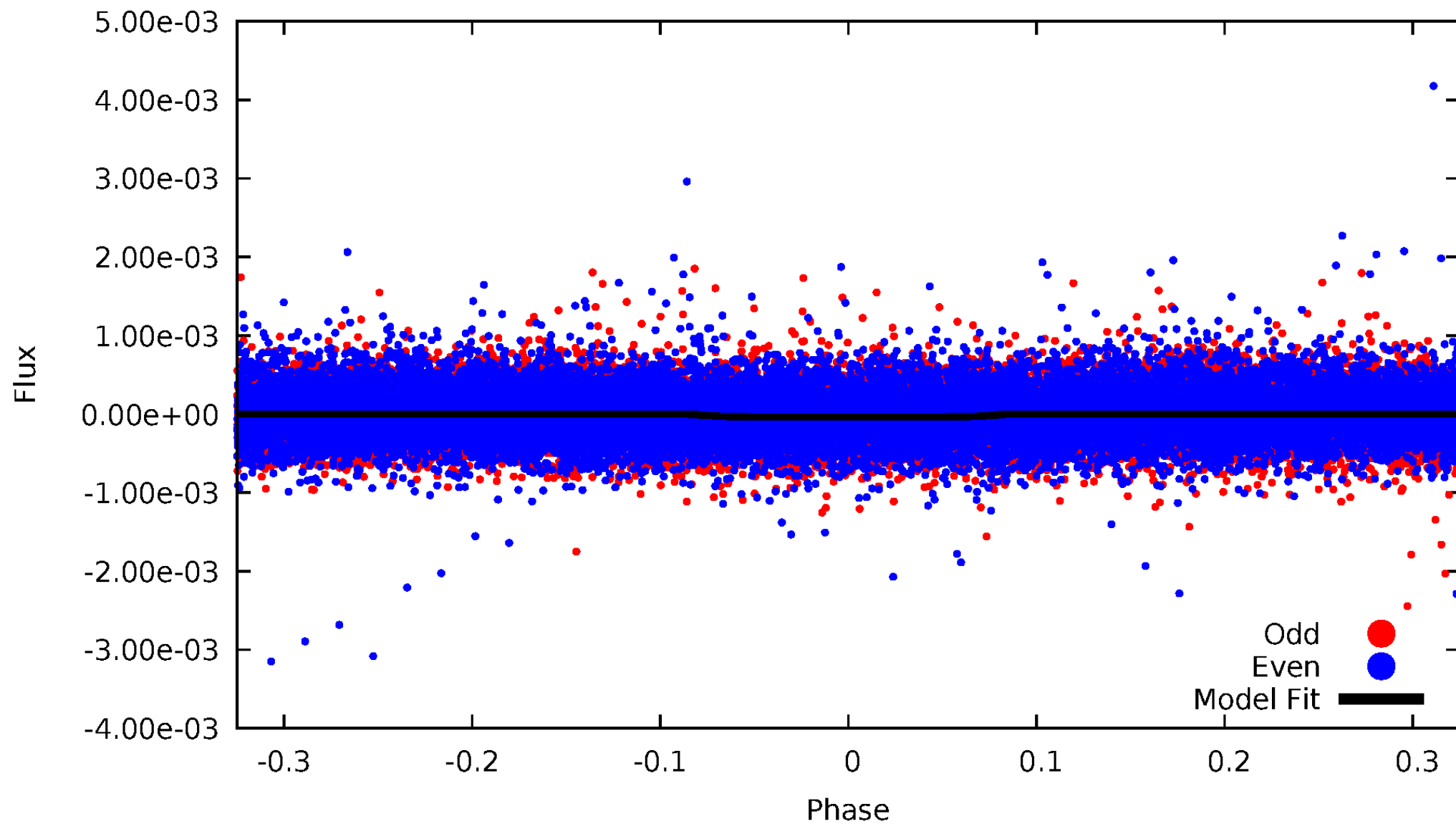


TCE 006535166-01



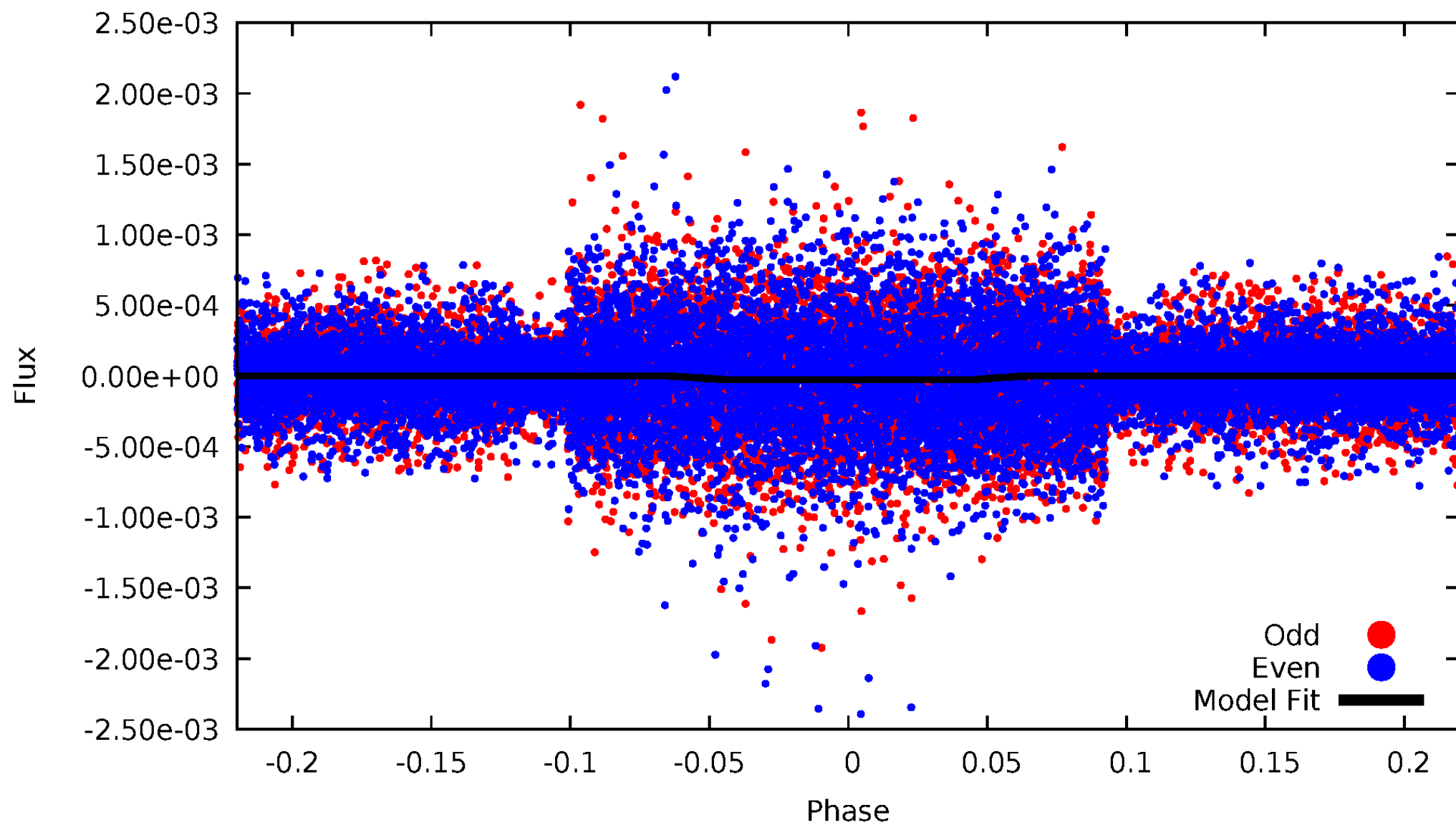
DV Odd/Even

TCE 006535166-01

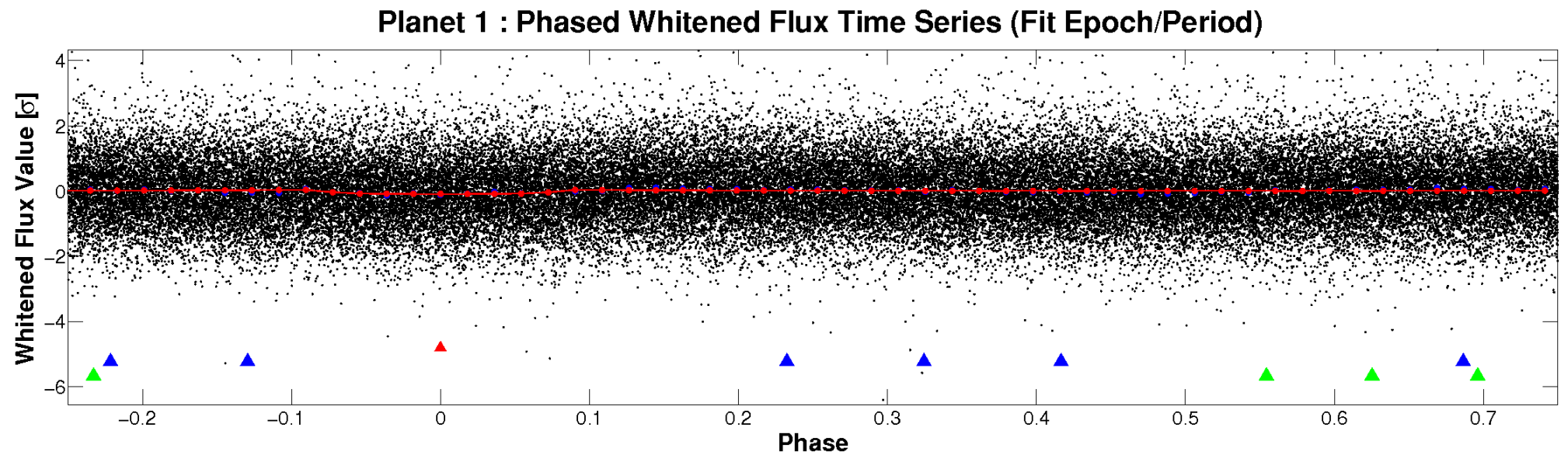
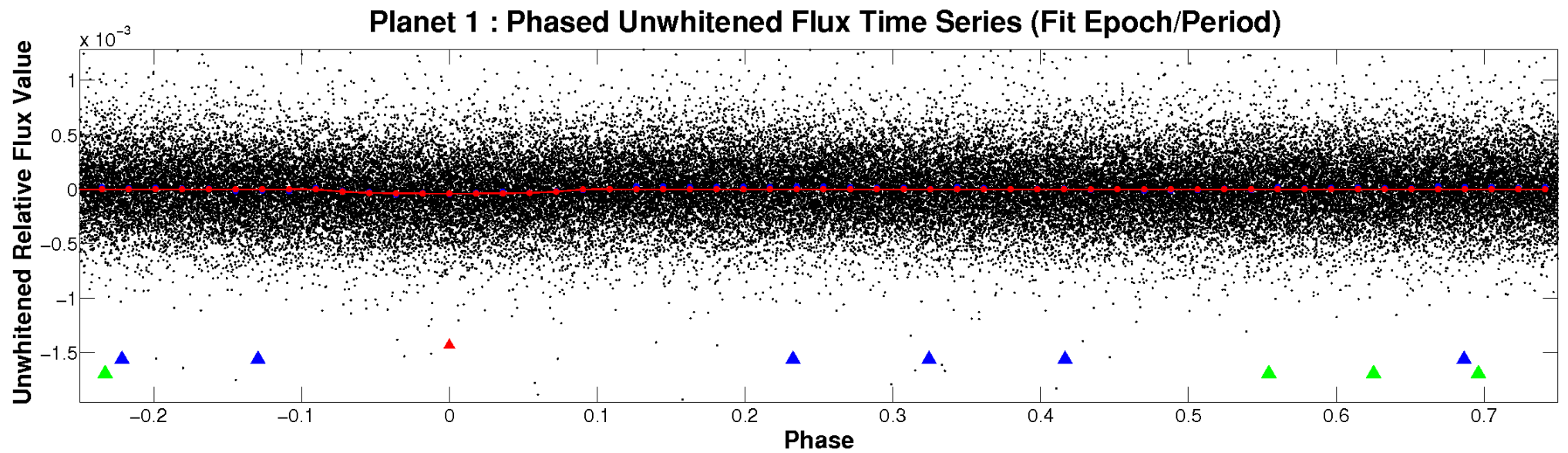


ALT Odd/Even

TCE 006535166-01

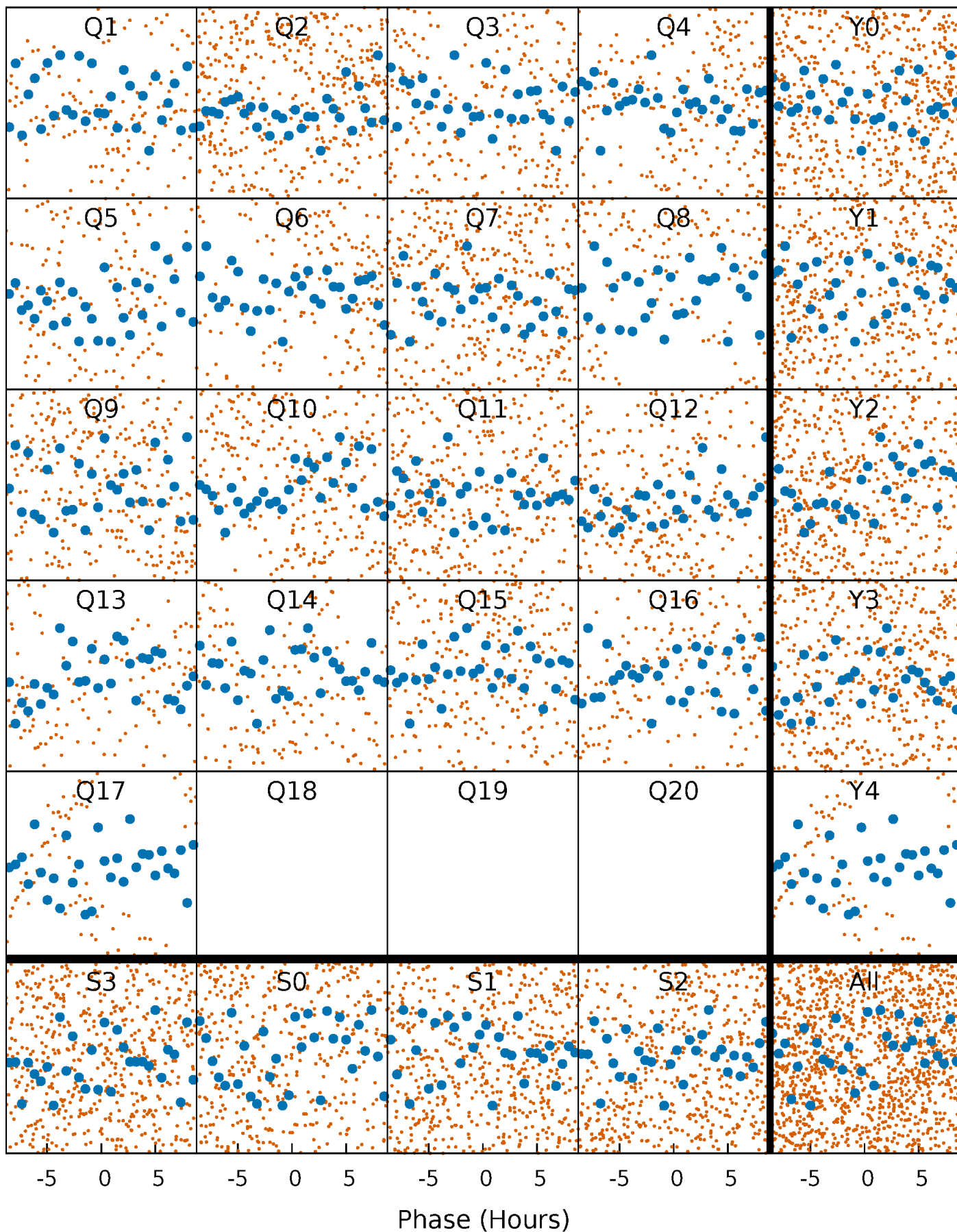


Non-Whitened Vs. Whitened Light Curve



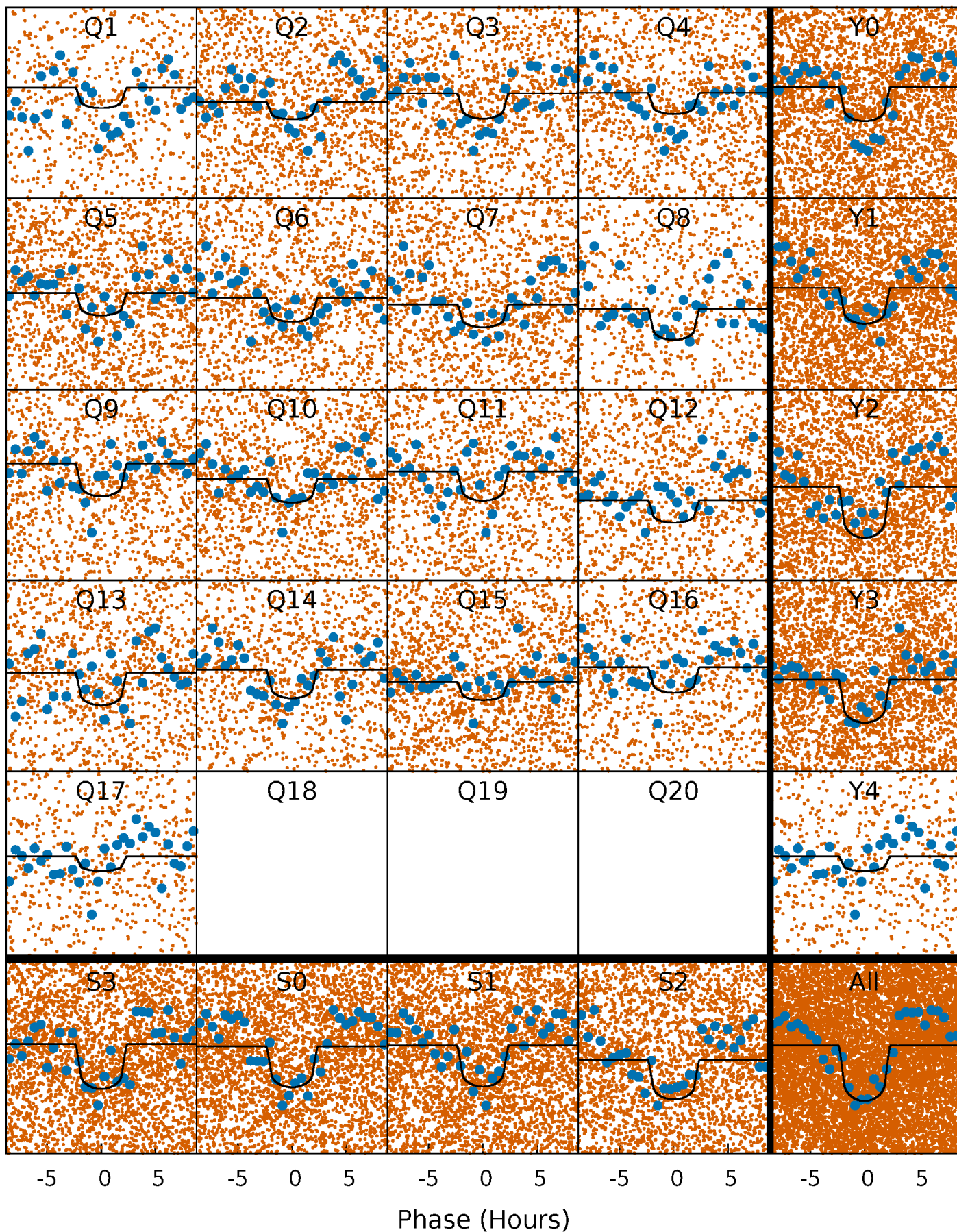
PDC Quarter-Phased Transit Curves

TCE 006535166-01 P= 1.130201 Days $T_0=131.940647$ (BKJD)



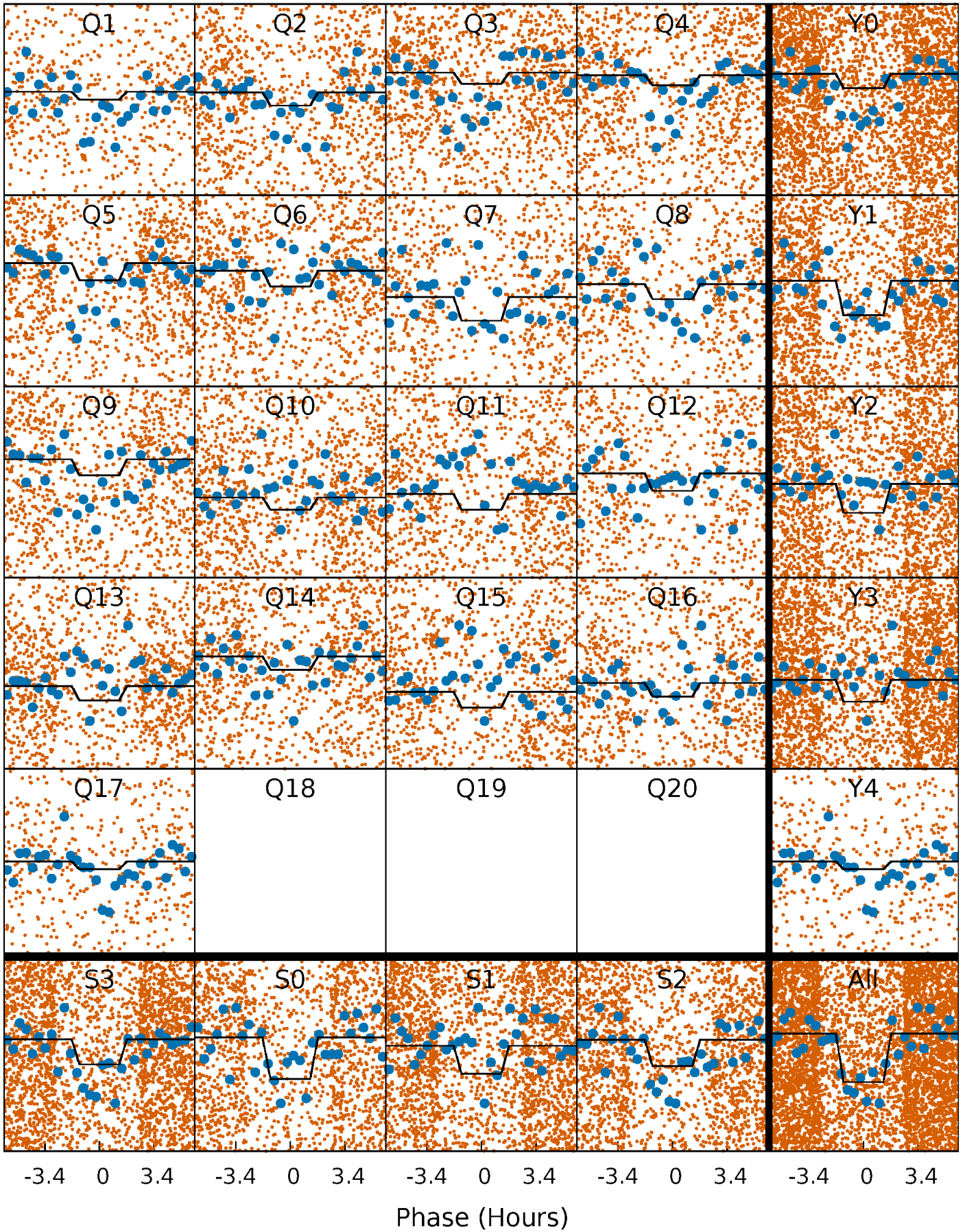
DV Quarter-Phased Transit Curves

TCE 006535166-01 P= 1.130201 Days $T_0=131.940647$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

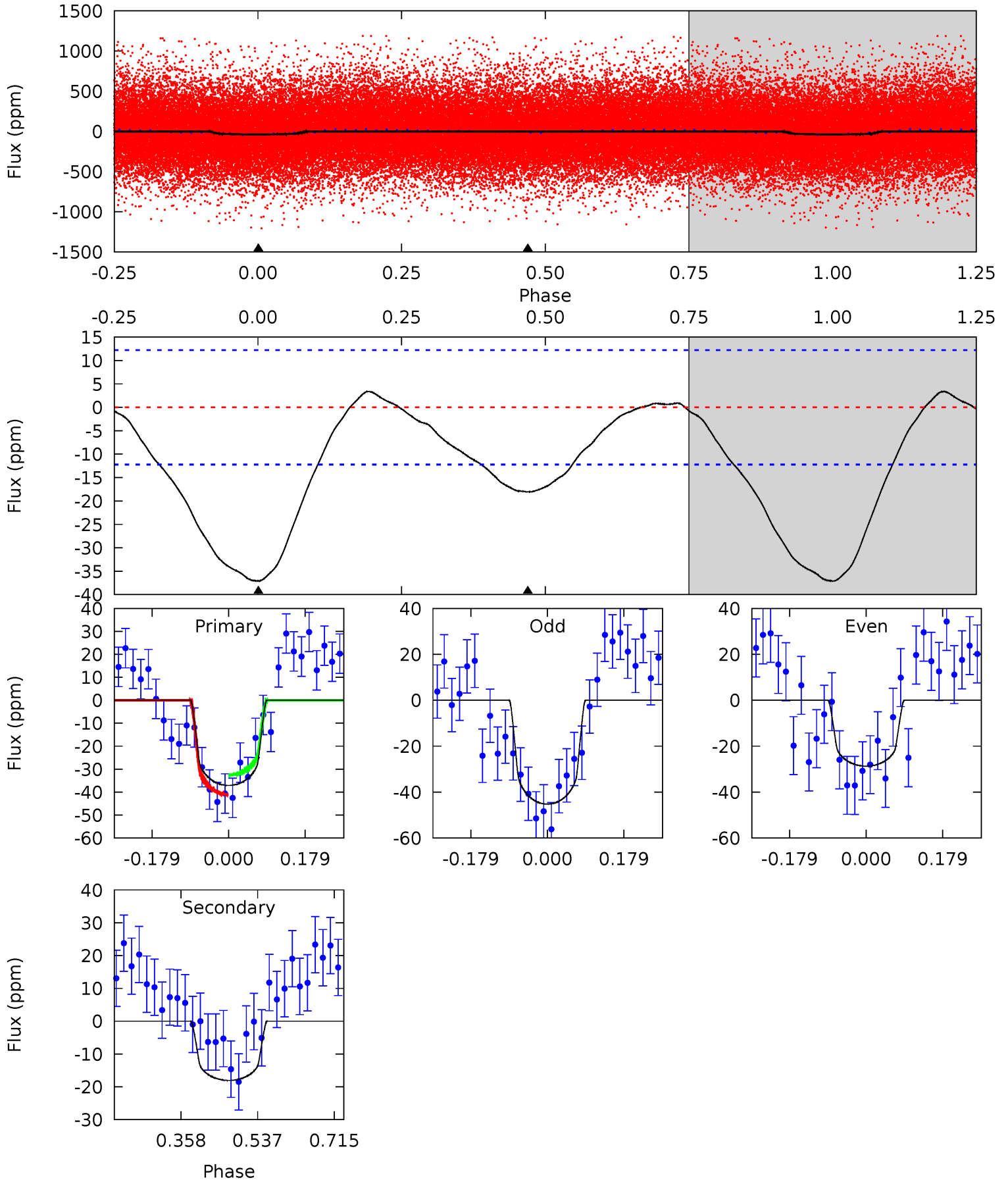
TCE 006535166-01 P= 1.130139 Days $T_0=131.966275$ (BKJD)



DV Model-Shift Uniqueness Test

006535166-01, P = 1.130201 Days, E = 130.810446 Days

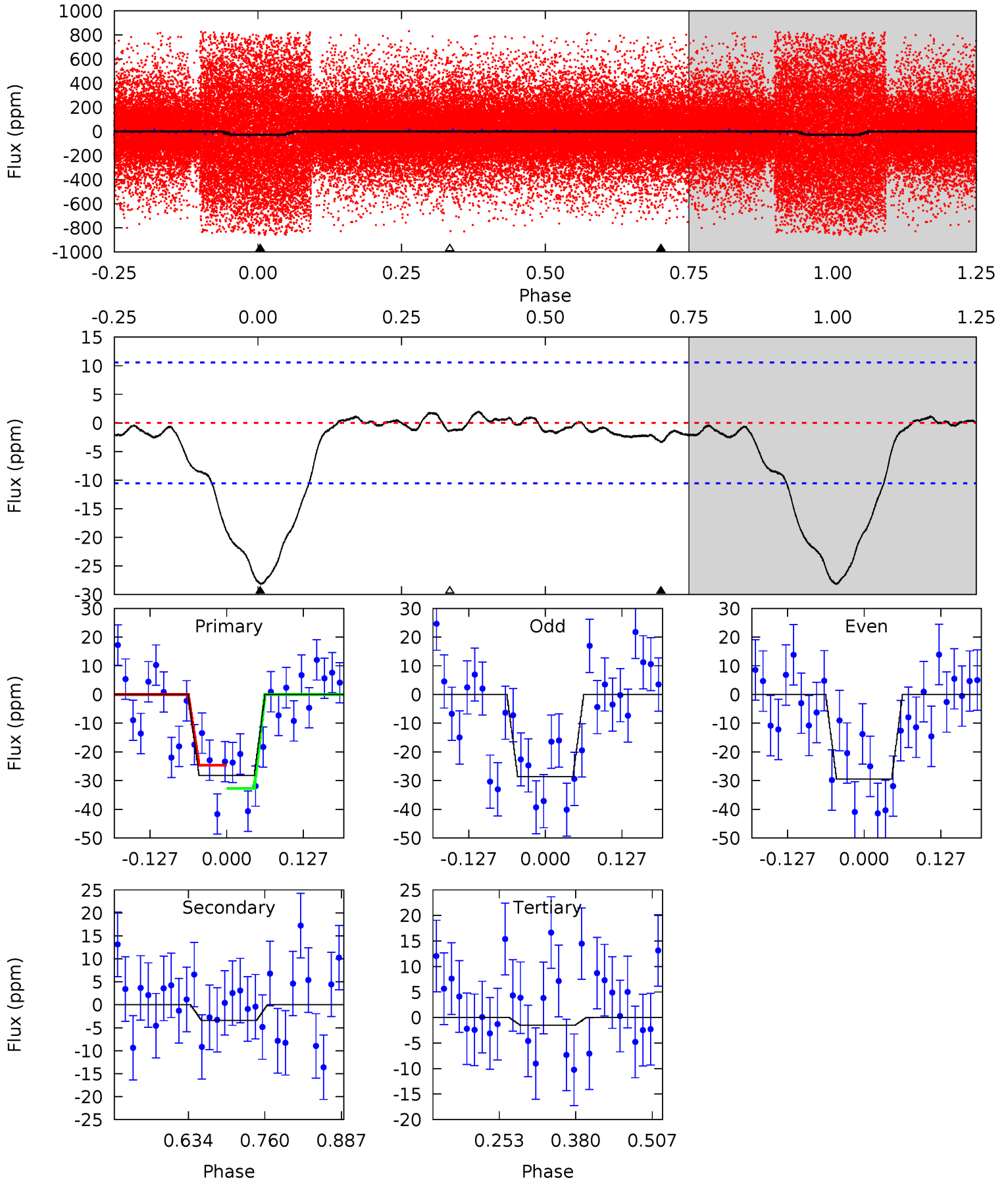
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.5	6.56	0	0	4.44	1.34	1.20	13.5	13.5	6.56	6.56	3.01	1.04	0.08	1.56



Alt Model-Shift Uniqueness Test

006535166-01, P = 1.130139 Days, E = 130.836136 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.0	1.45	0.63	0	4.51	1.53	0.52	11.4	12.0	0.81	1.45	0.17	1.06	0.07	1.72



Stellar Parameters For KIC 006535166

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5590^{+152}_{-169}	$4.593^{+0.034}_{-0.136}$	$-0.340^{+0.300}_{-0.300}$	$0.771^{+0.158}_{-0.068}$	$0.862^{+0.078}_{-0.097}$	$2.653^{+0.459}_{-1.006}$
	+3%/-3%	+1%/-3%	+88%/-88%	+20%/-9%	+9%/-11%	+17%/-38%
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 006535166-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-18 ± 3	$0.61^{+0.33}_{-0.28}$	2178^{+102}_{-97}	4507^{+1460}_{-683}	11^{+27}_{-6}
Alt.	-3 ± 2	$0.47^{+0.28}_{-0.27}$	2173^{+109}_{-90}	3542^{+1546}_{-887}	$2.997^{+16.036}_{-2.367}$

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 $A_{obs} \gg 1.0$

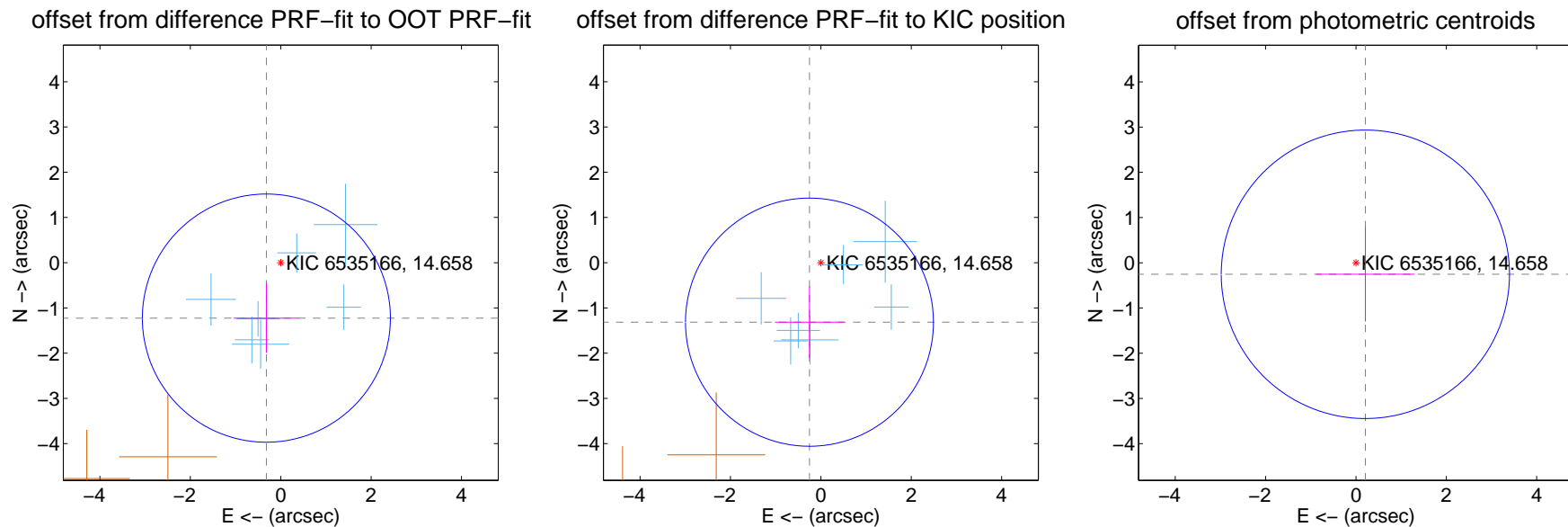
DV Centroid Data

Supplemental centroid analysis for 006535166-01. Kepler magnitude: 14.66. Transit SNR 8.27

There are 7 quarters with good PRF difference image offsets

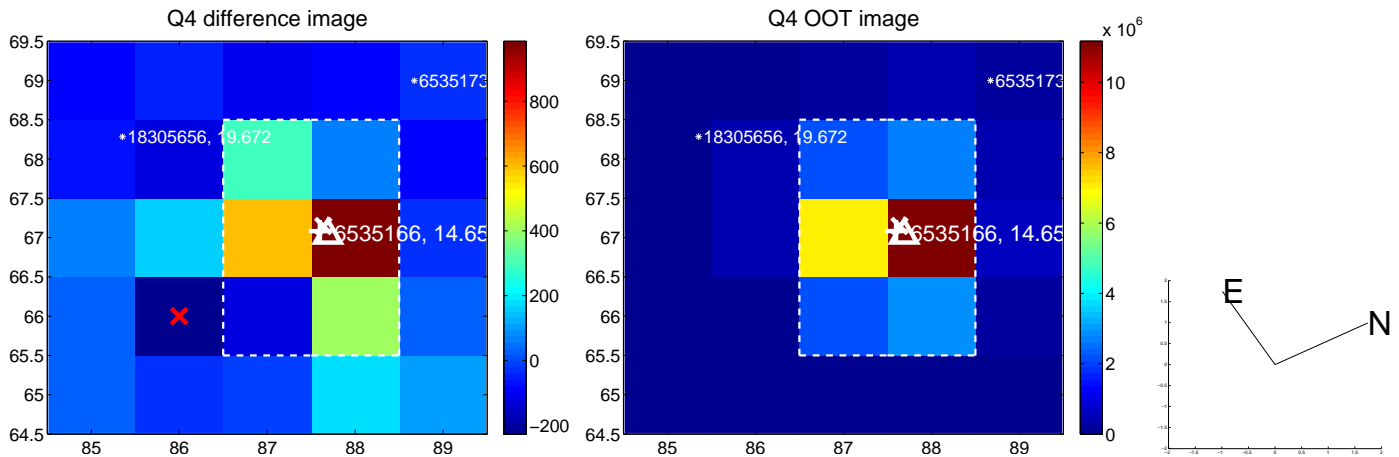
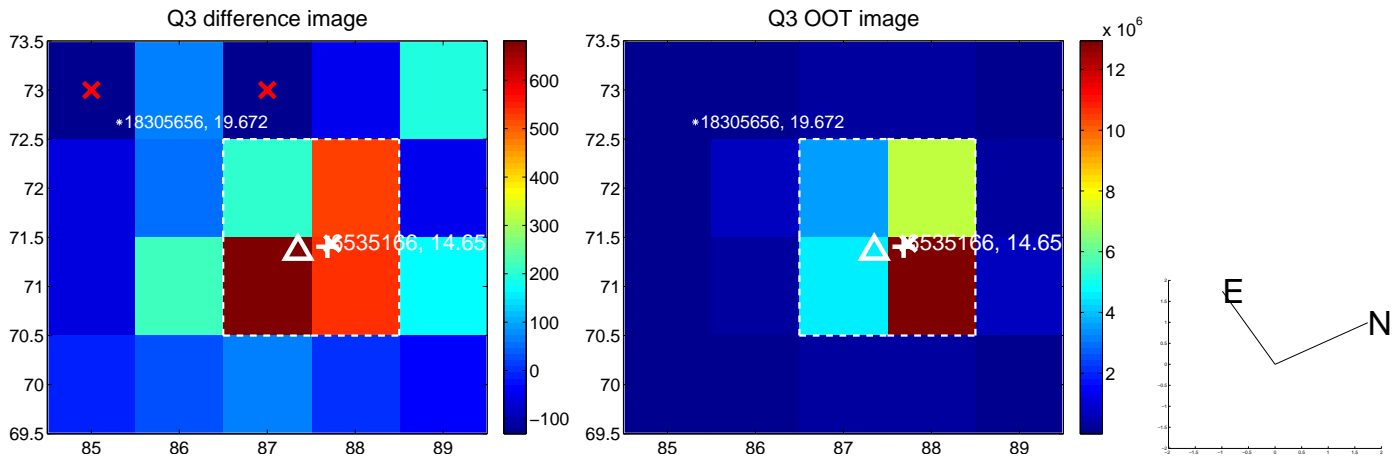
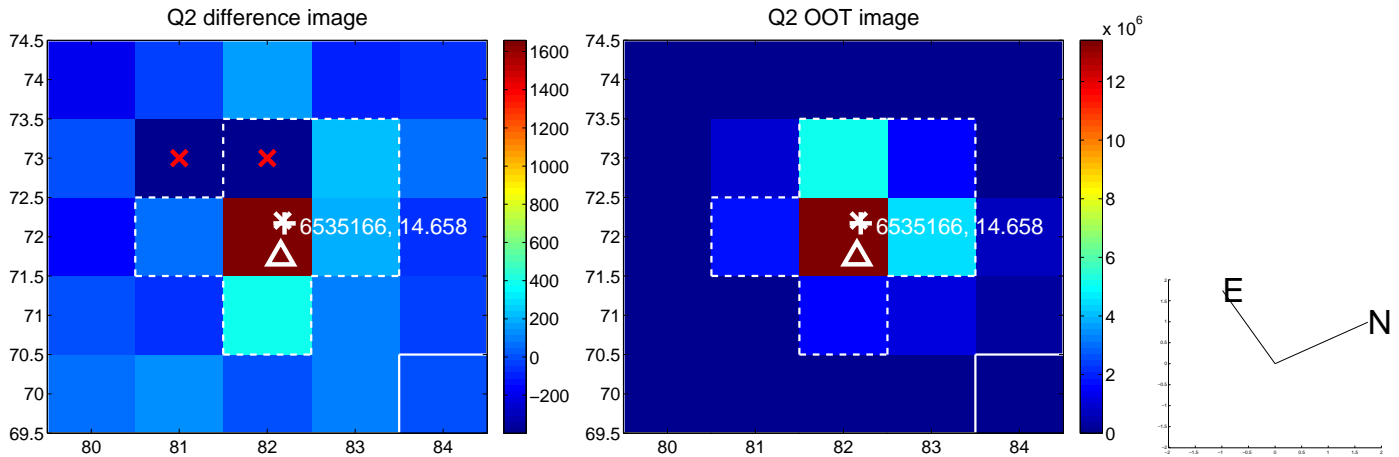
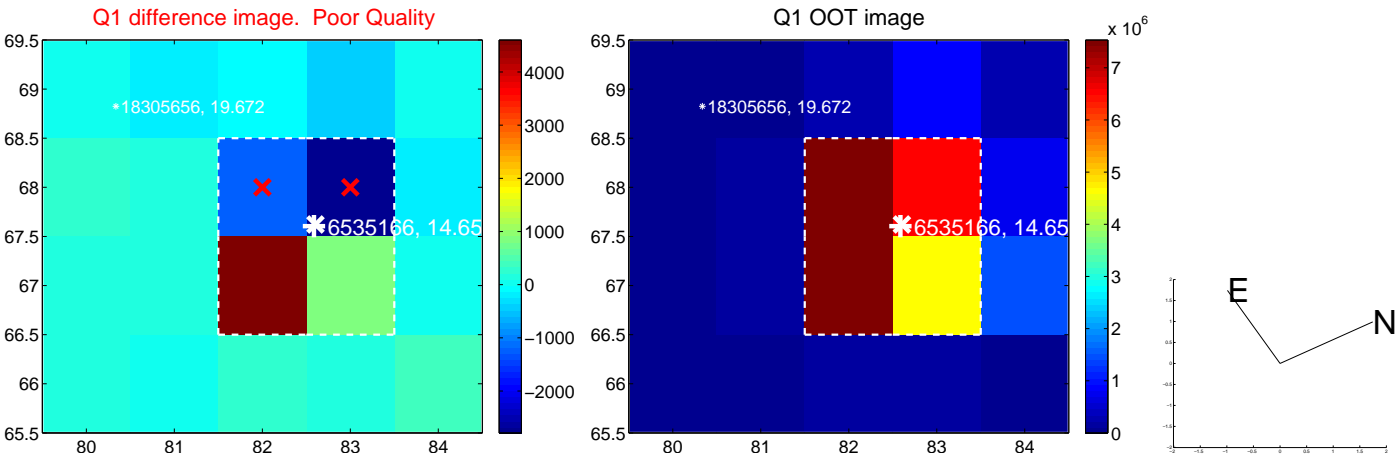
The direct PRF centroid is offset from the target star catalog position by about 0.37 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.266 ± 0.914	1.38	0.318 ± 0.723	-1.225 ± 0.767
PRF-fit source offset from KIC position	1.339 ± 0.914	1.46	0.252 ± 0.764	-1.315 ± 0.793
photometric centroid source offset	0.33 ± 1.06	0.31	-0.21 ± 1.09	-0.25 ± 1.04

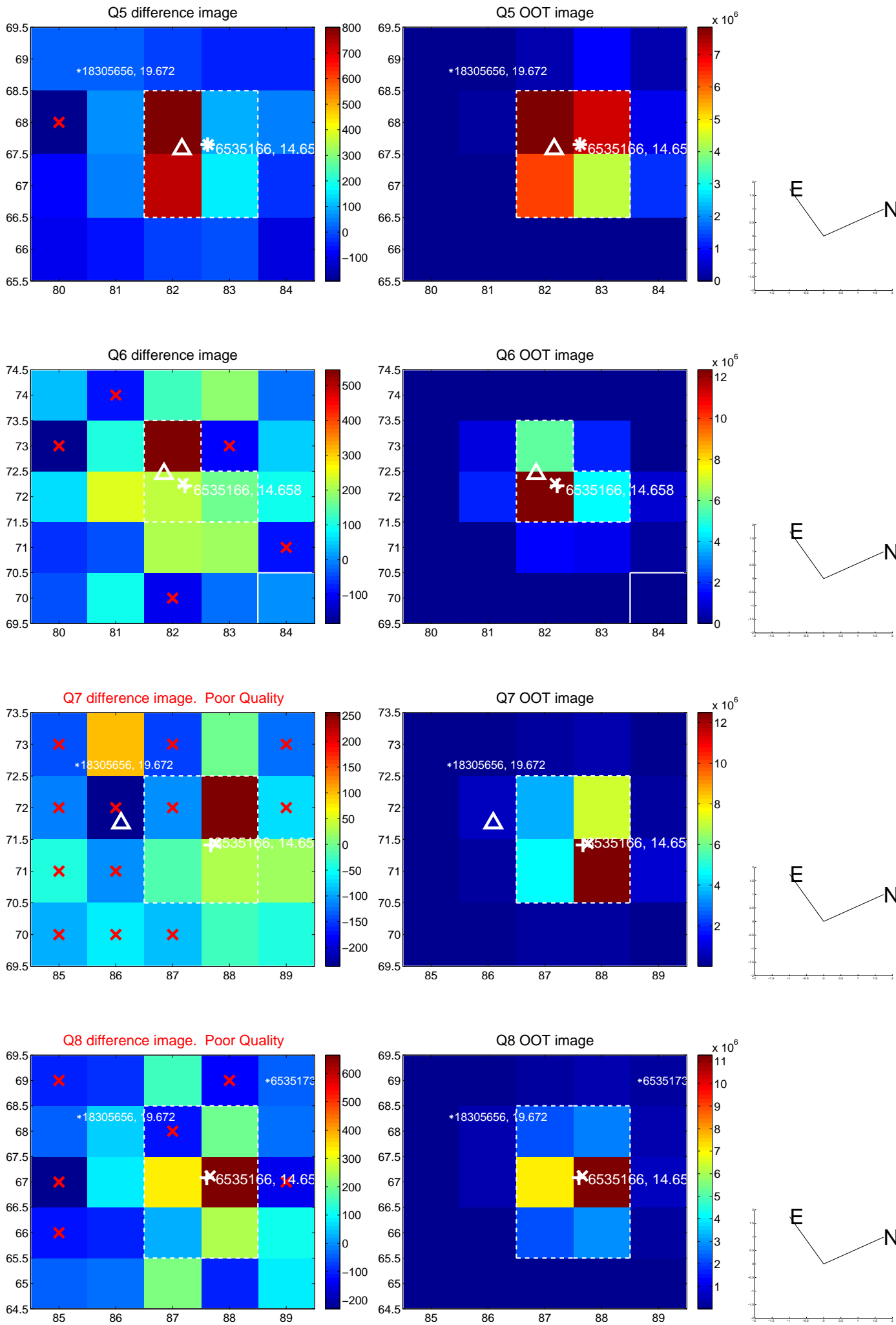


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

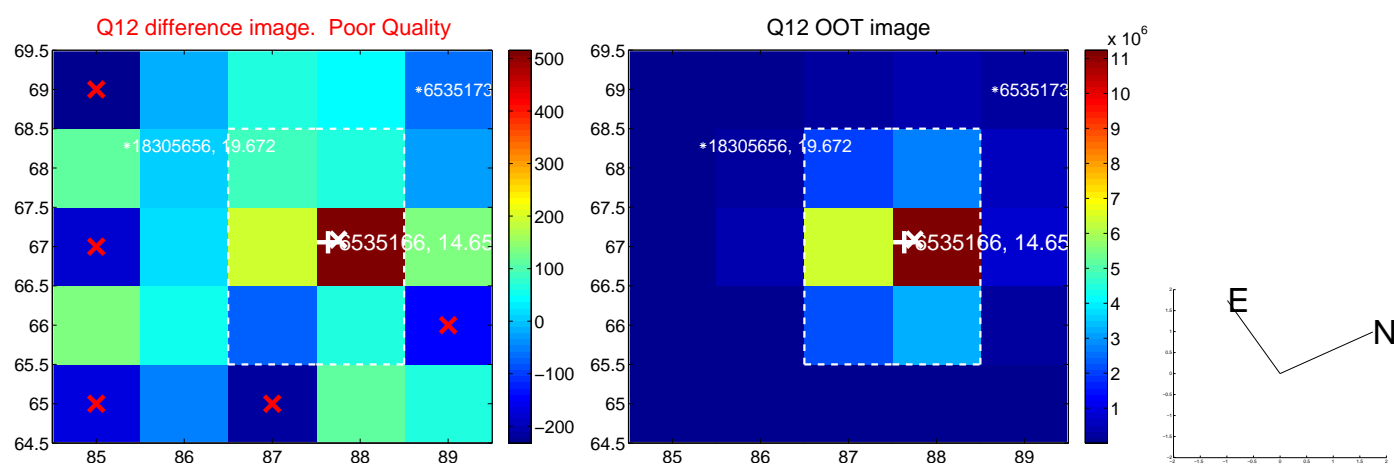
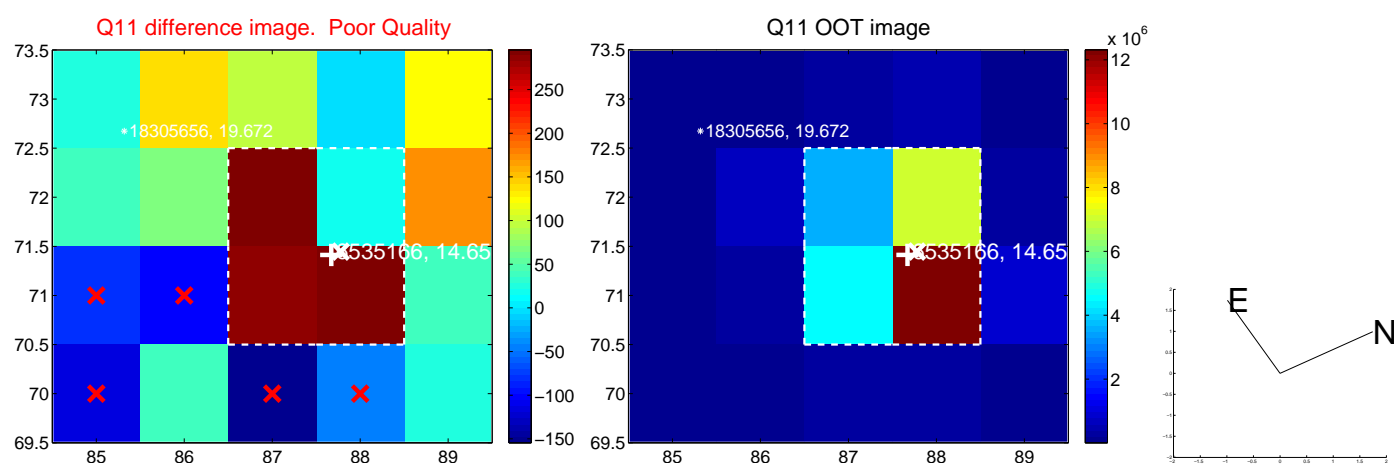
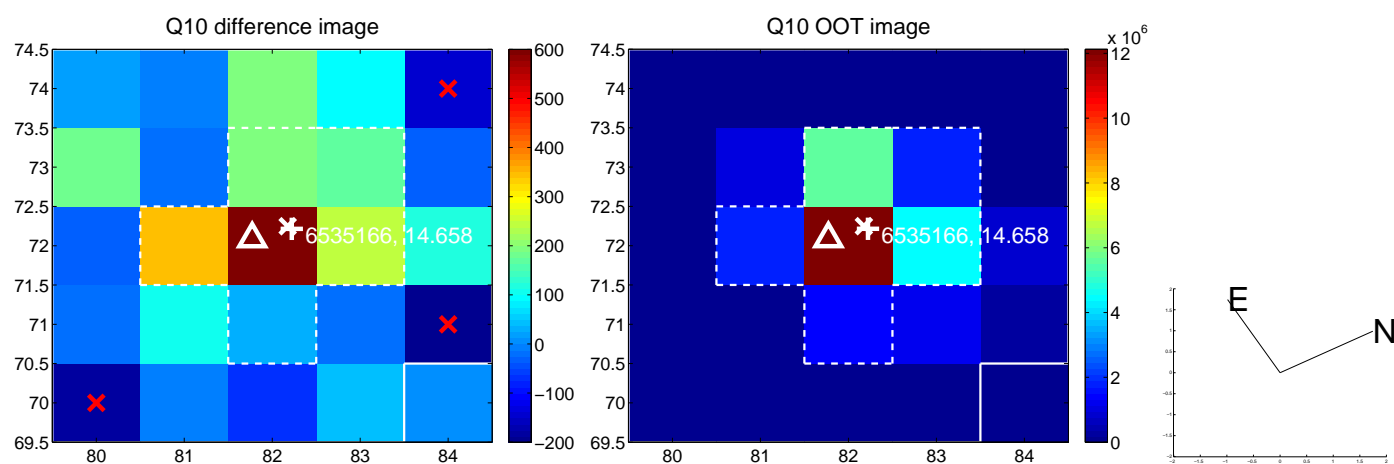
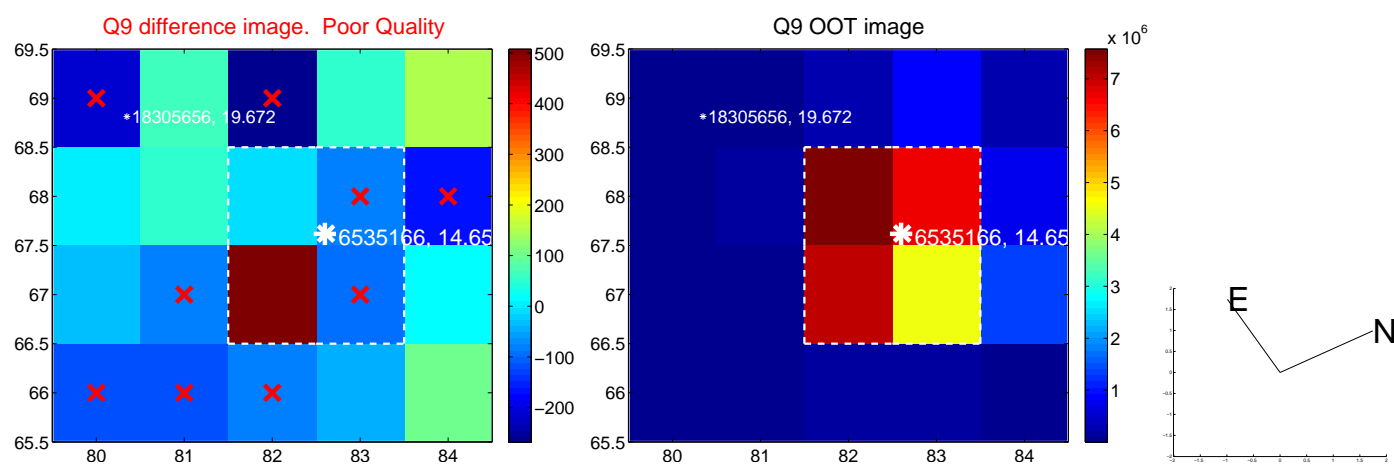
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



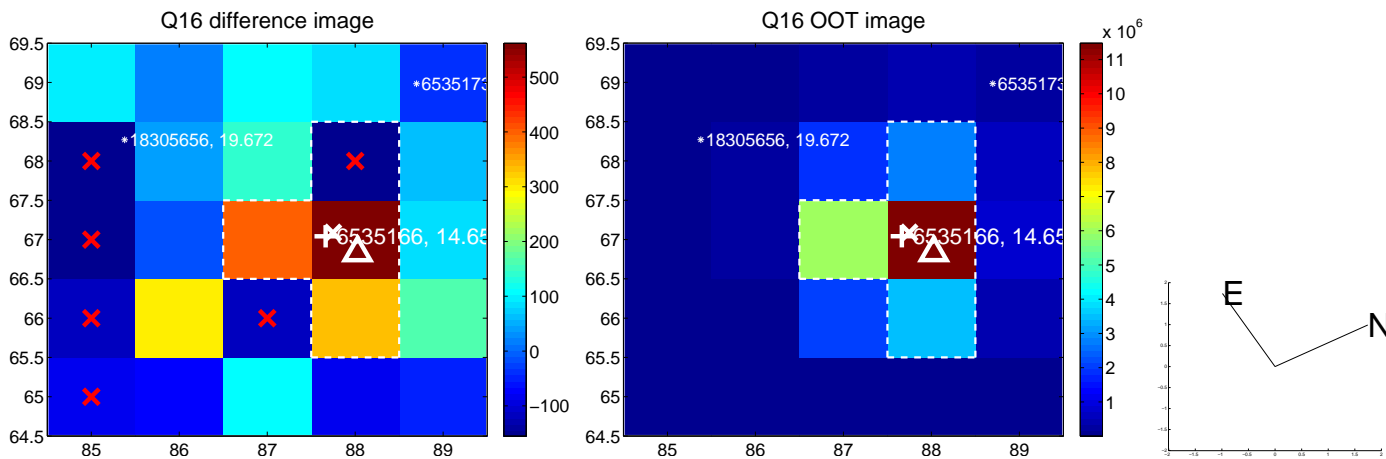
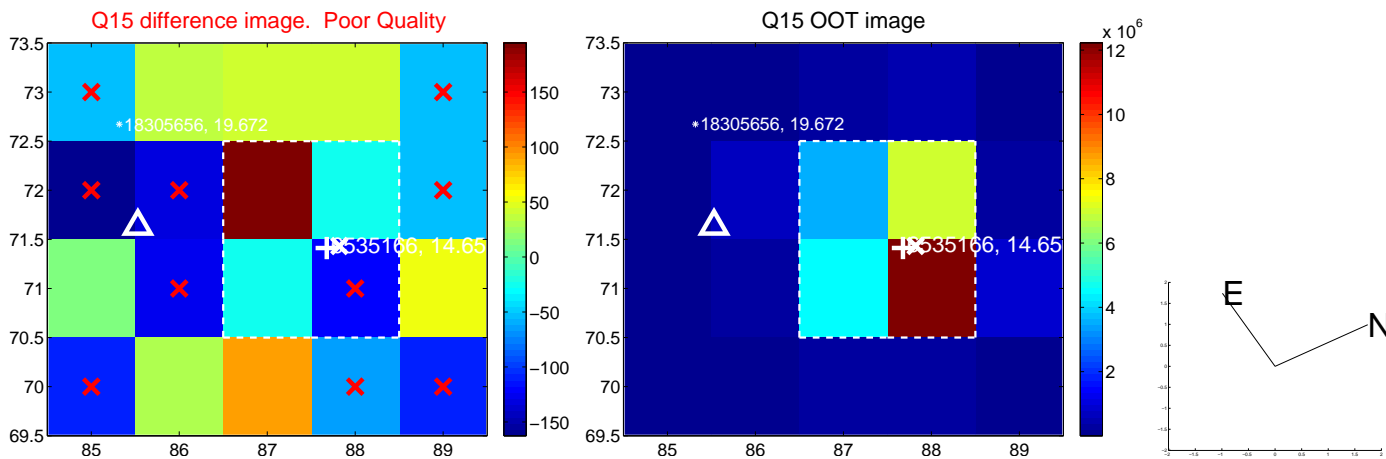
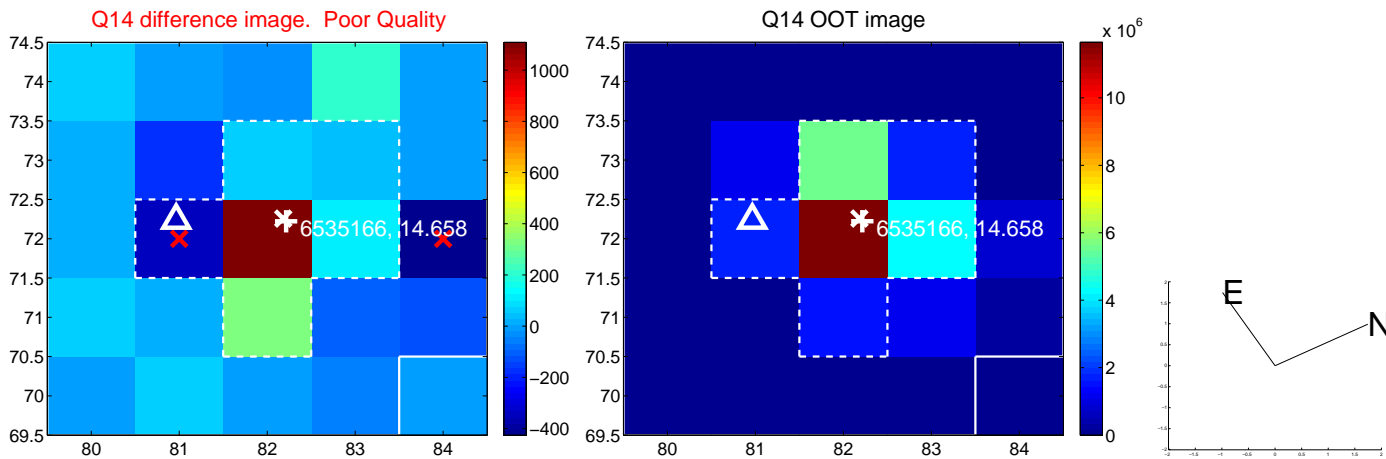
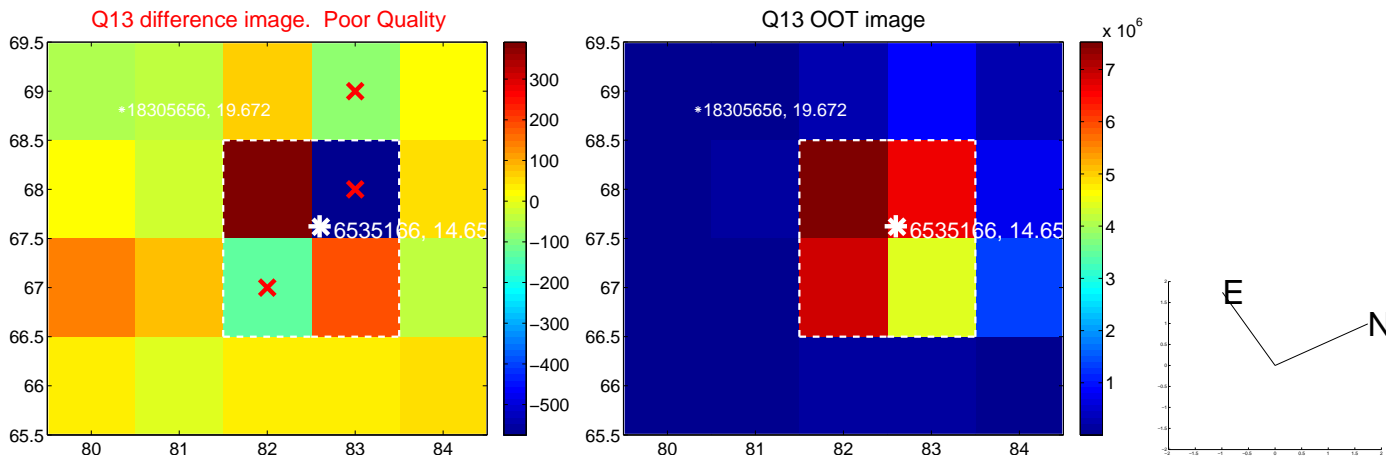
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



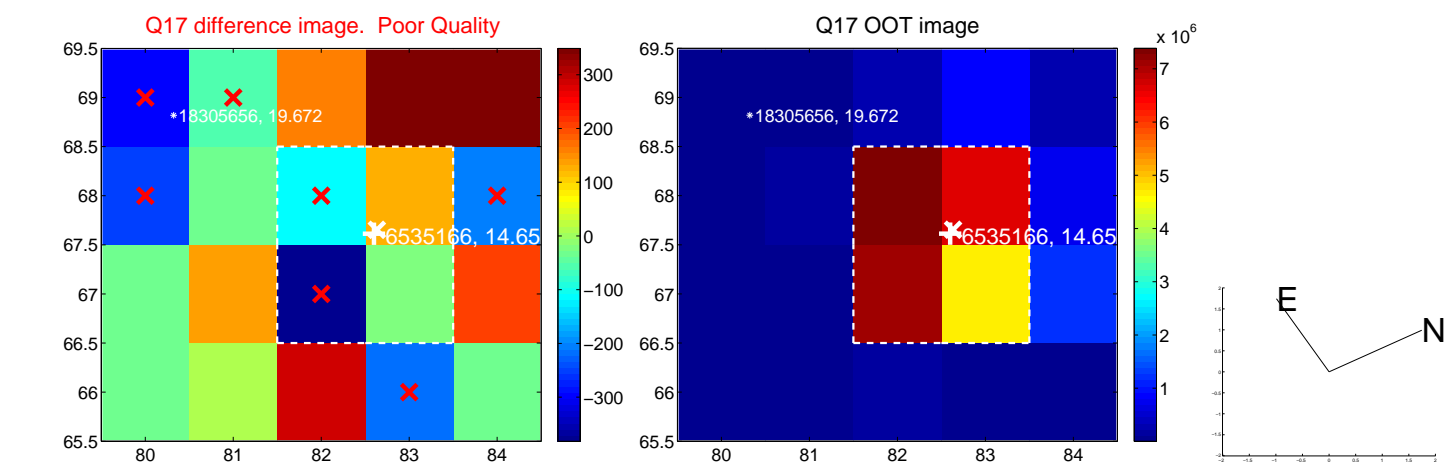
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



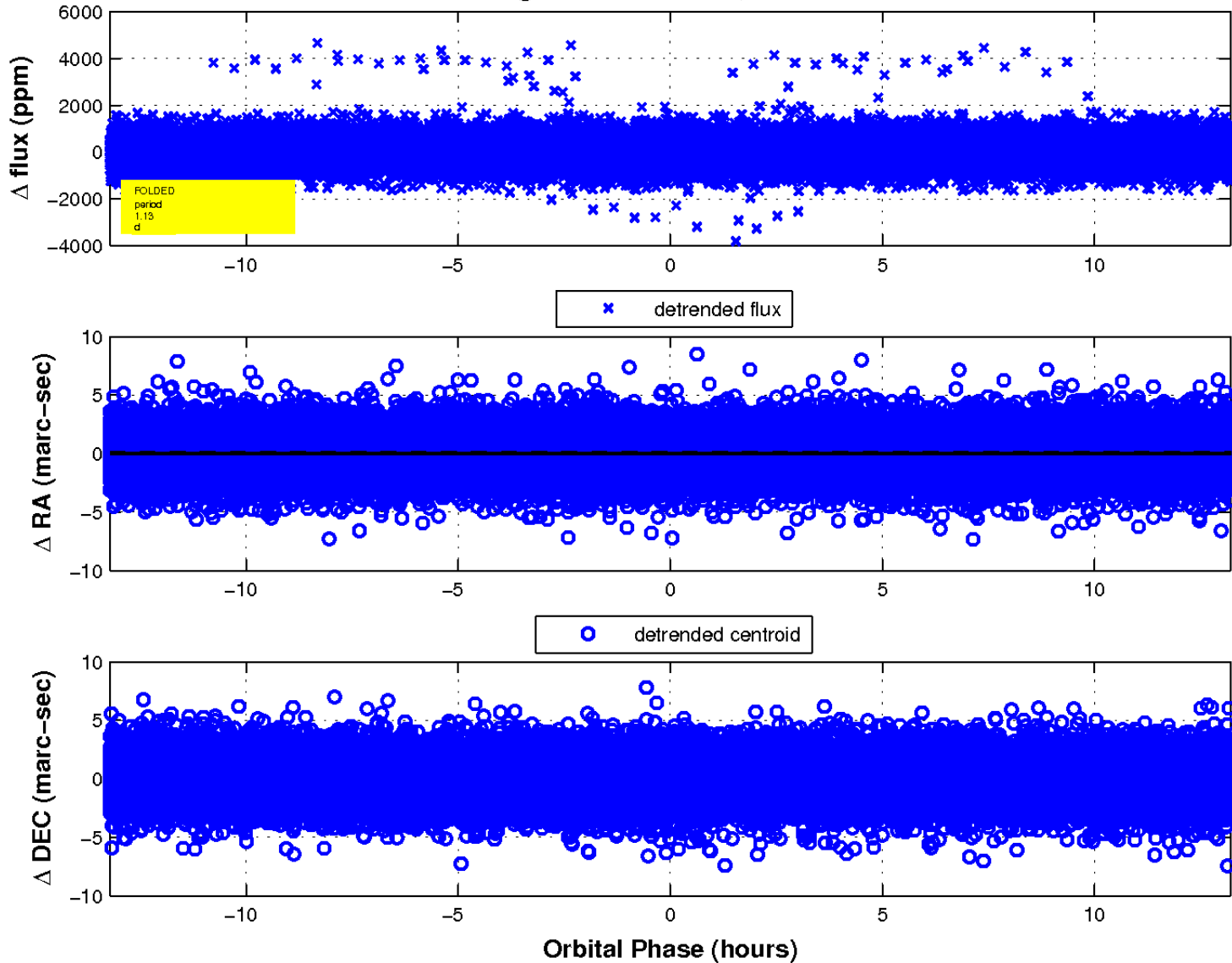
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

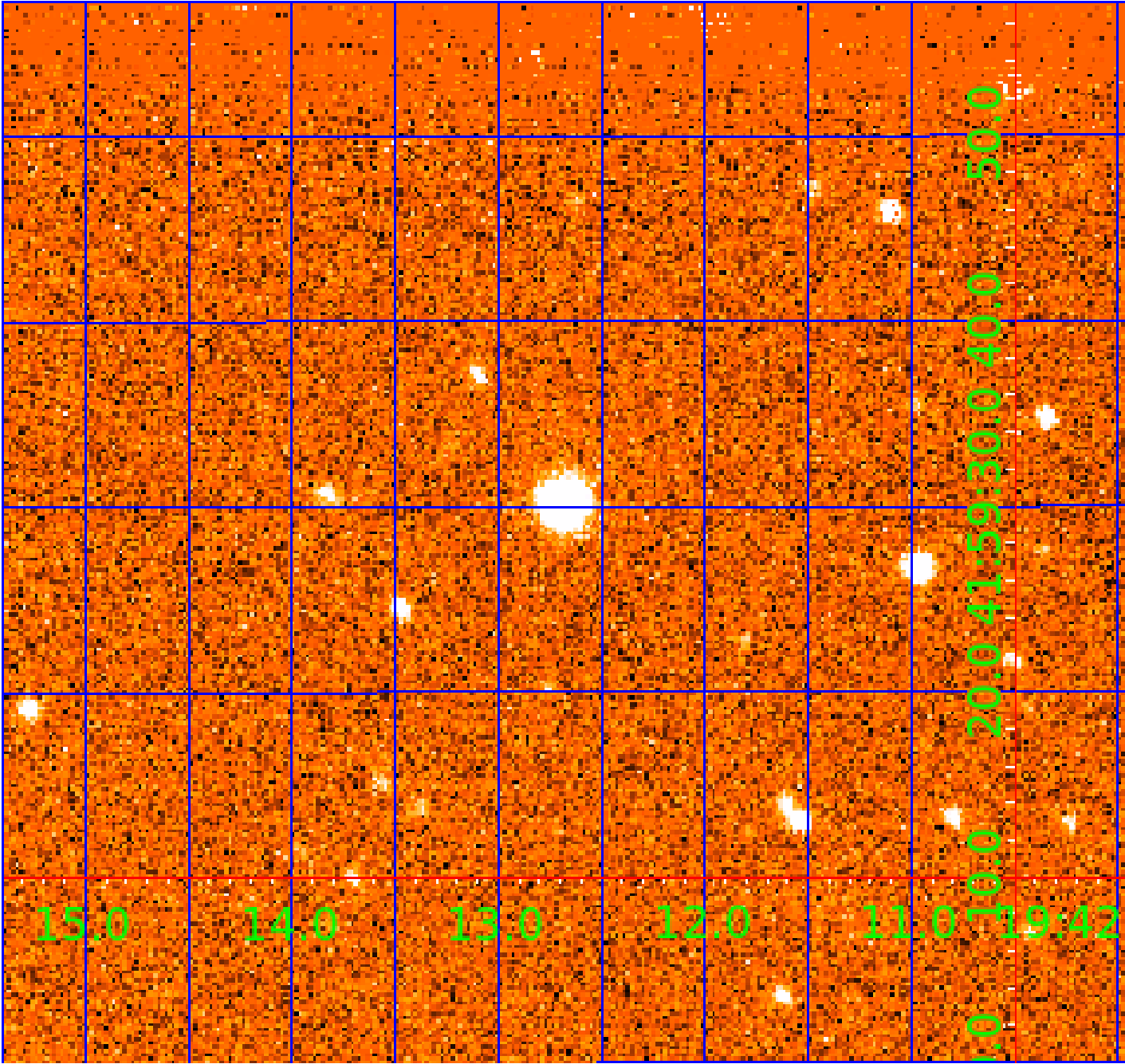


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 006535166

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})
006535166-01	OBS	No	1.130201	131.940647	39.9	4.405	7.5	8.3	0.77	5590	0.58	1285.40
006535166-02	OBS	No	276.282165	152.755085	945.3	12.500	15.7	-1.0	0.77	5590	2.35	0.84
006535166-03	OBS	No	415.994137	155.171293	972.6	10.800	13.9	7.6	0.77	5590	4.65	0.49

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006535166-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006535166-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
006535166-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_DV—INCONSISTENT_TRANS

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

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

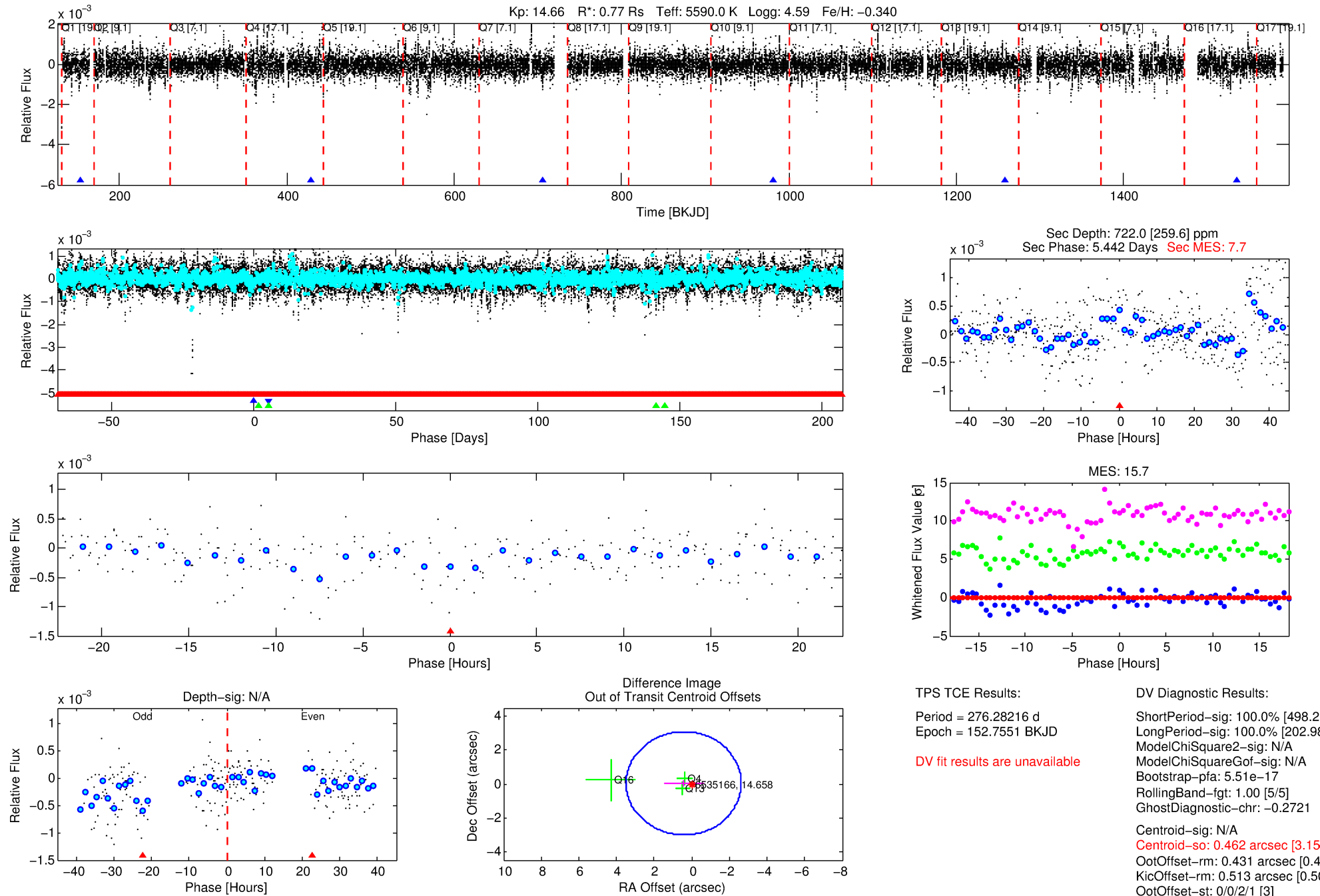
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006535166-02

No Significant Match Found

DV One-Page Summary

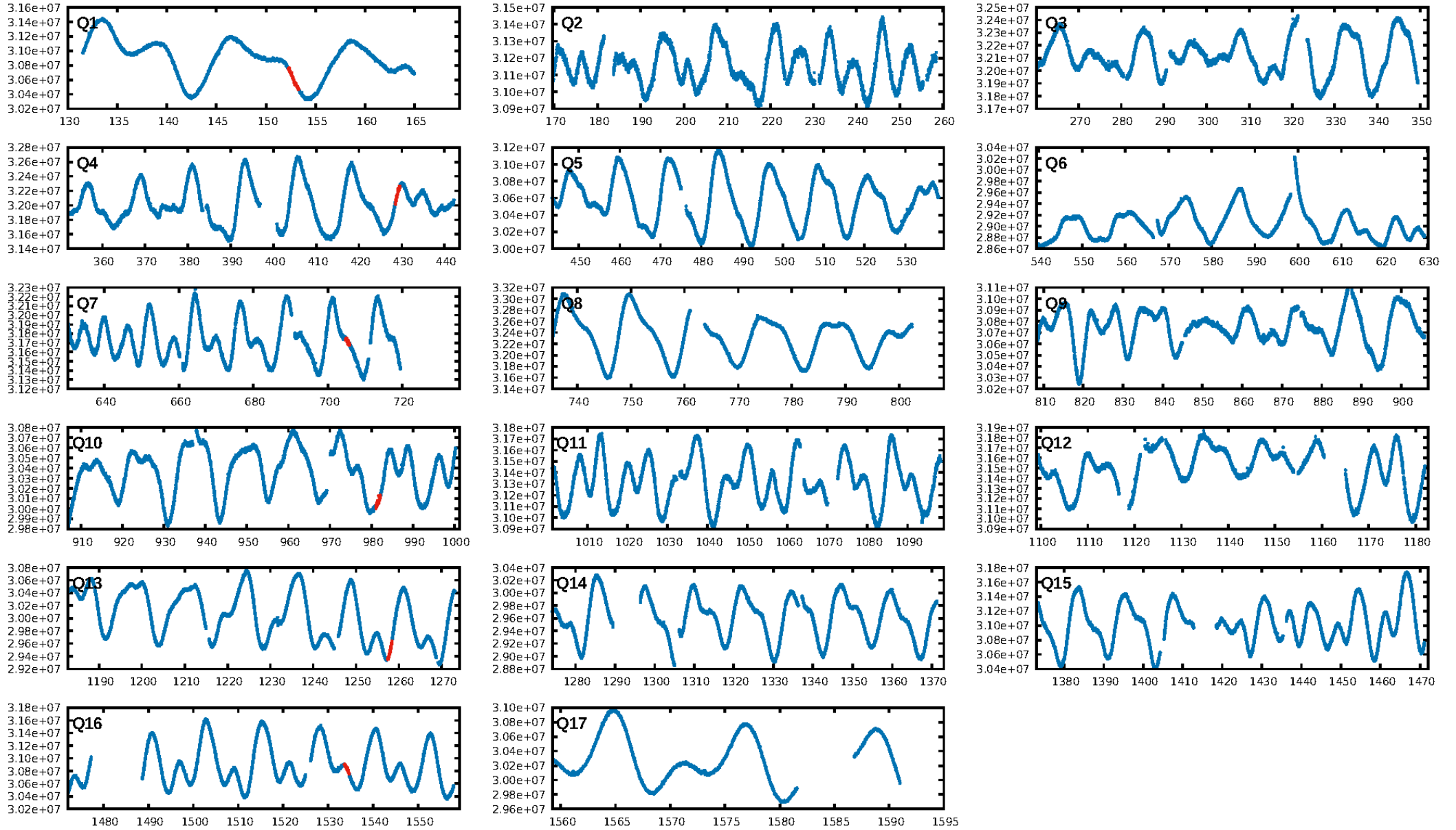
KIC: 6535166 Candidate: 2 of 3 Period: 276.282 d



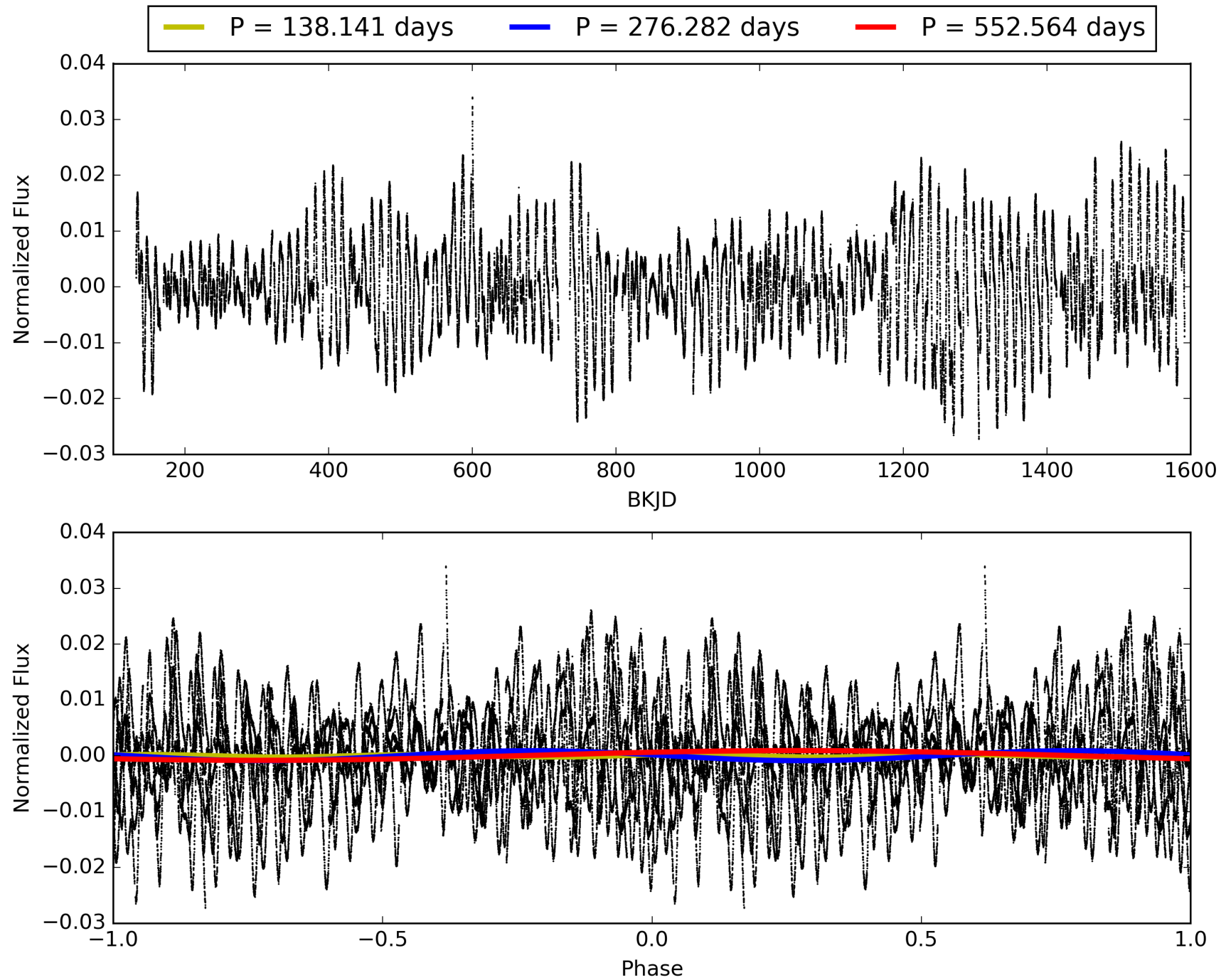
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 00:06:38 Z

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

TCE 006535166-02, PDC Light Curves

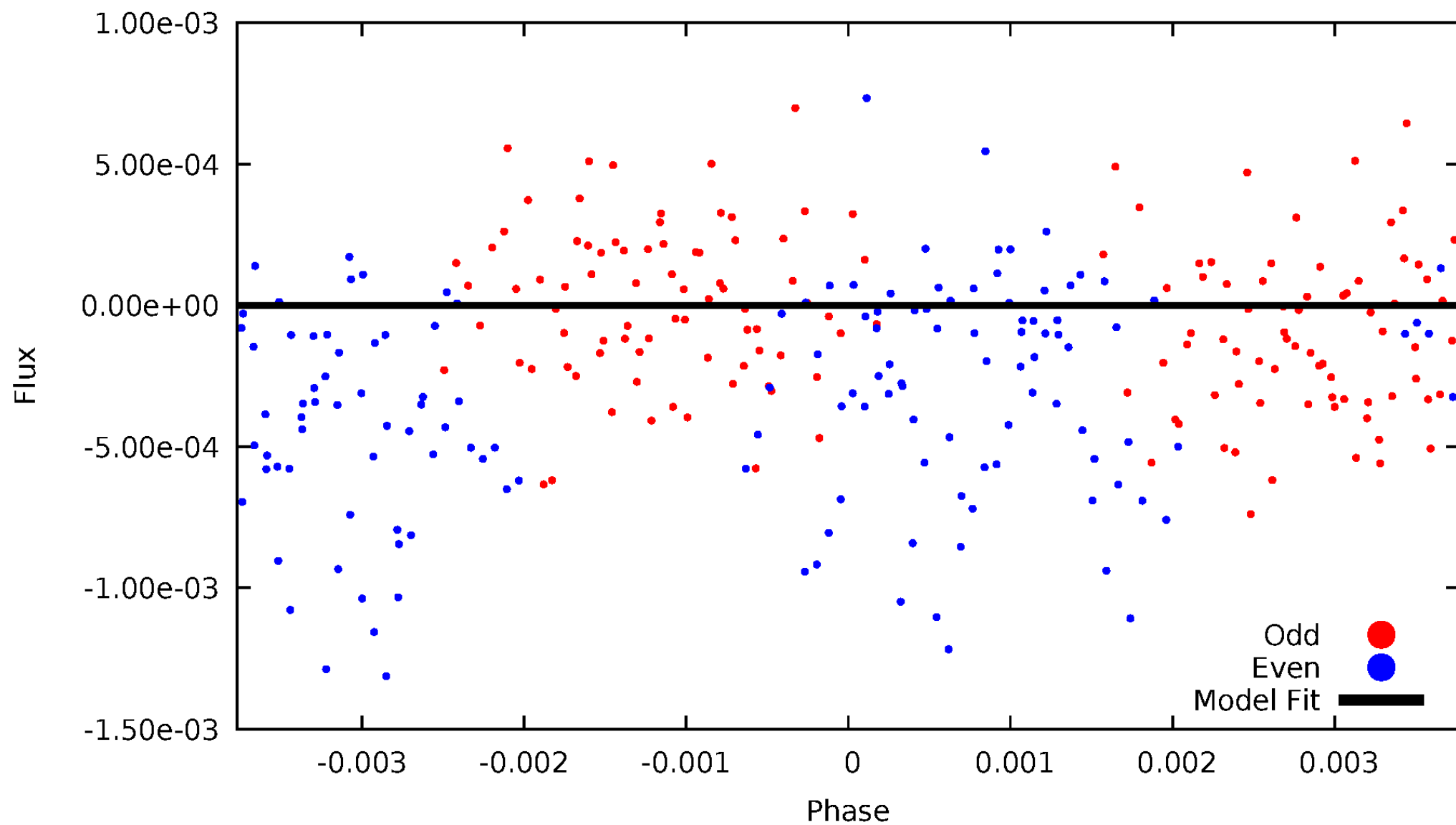


TCE 006535166-02



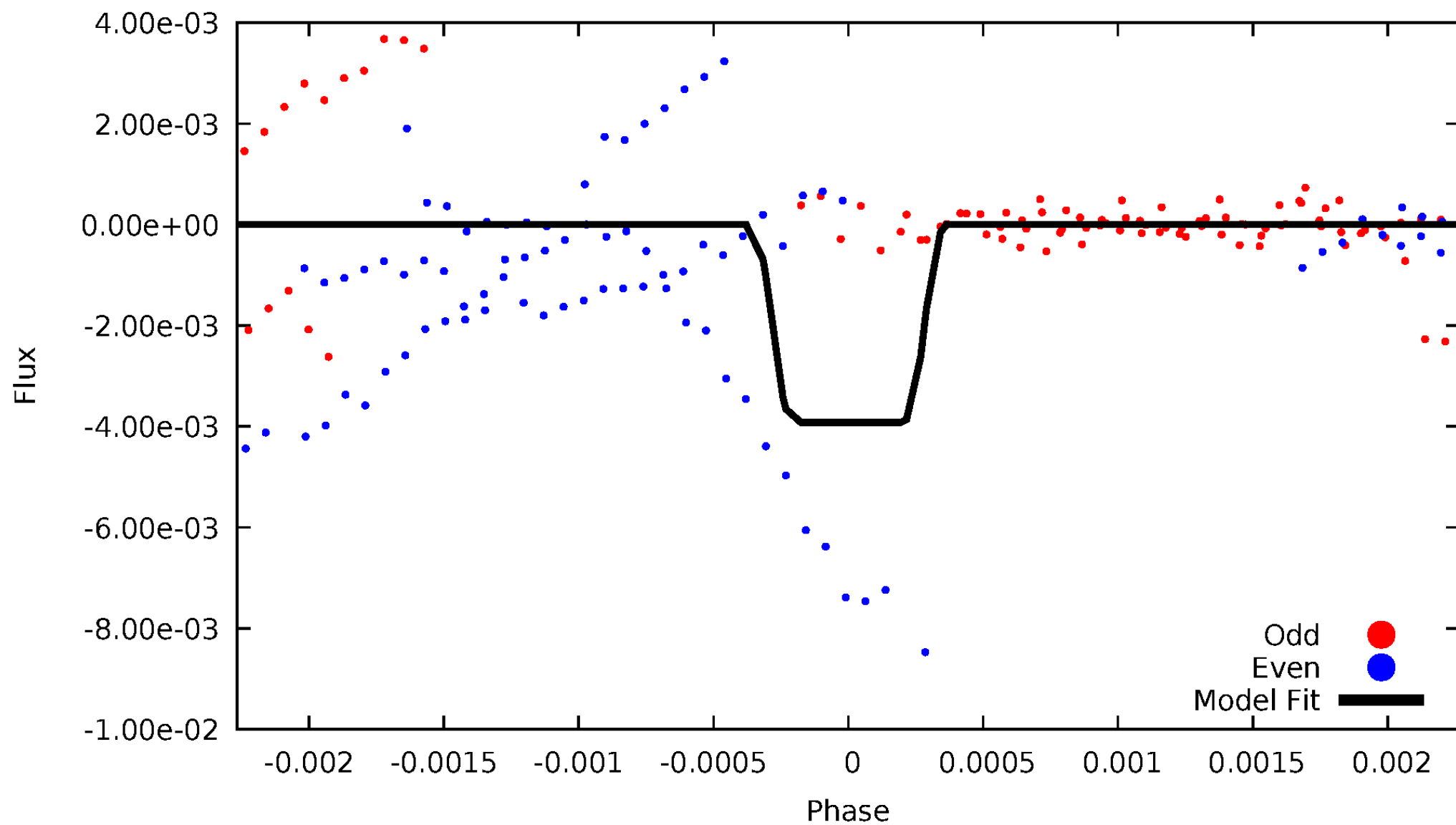
DV Odd/Even

TCE 006535166-02



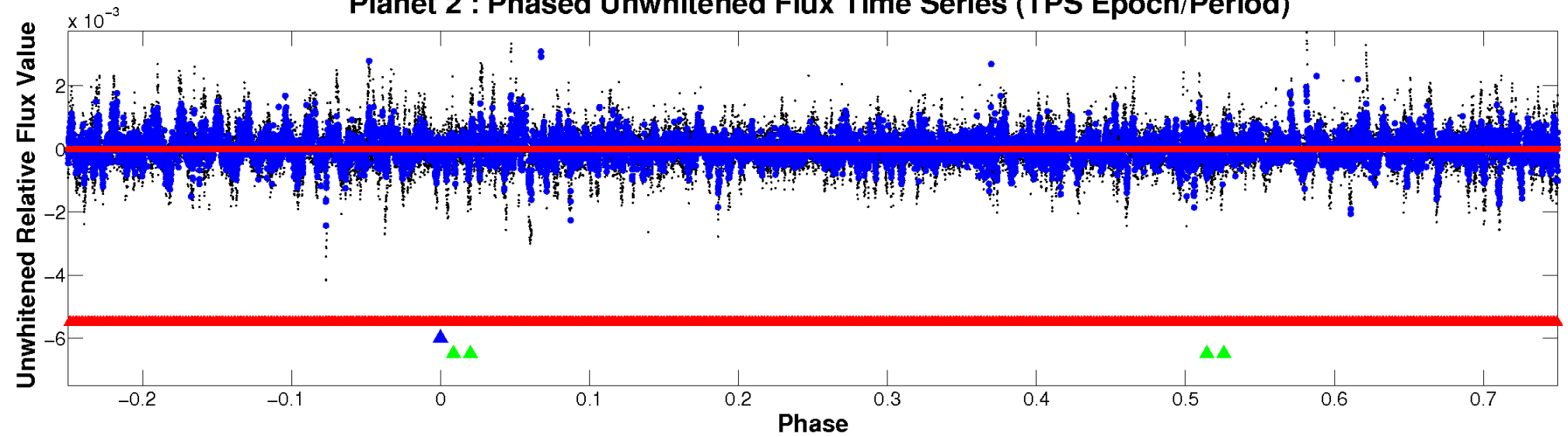
ALT Odd/Even

TCE 006535166-02

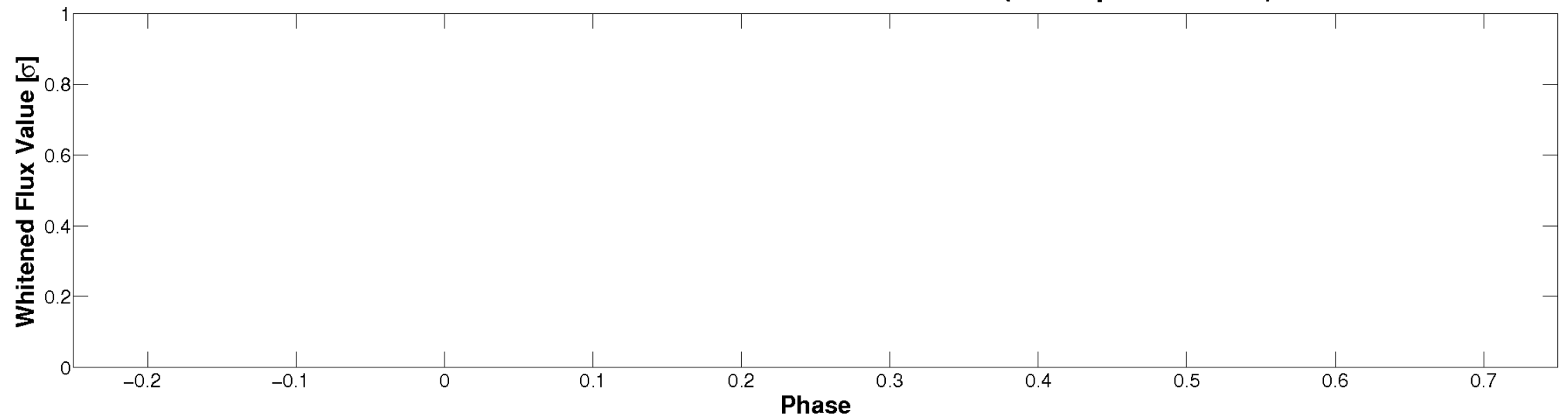


Non-Whitened Vs. Whitened Light Curve

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

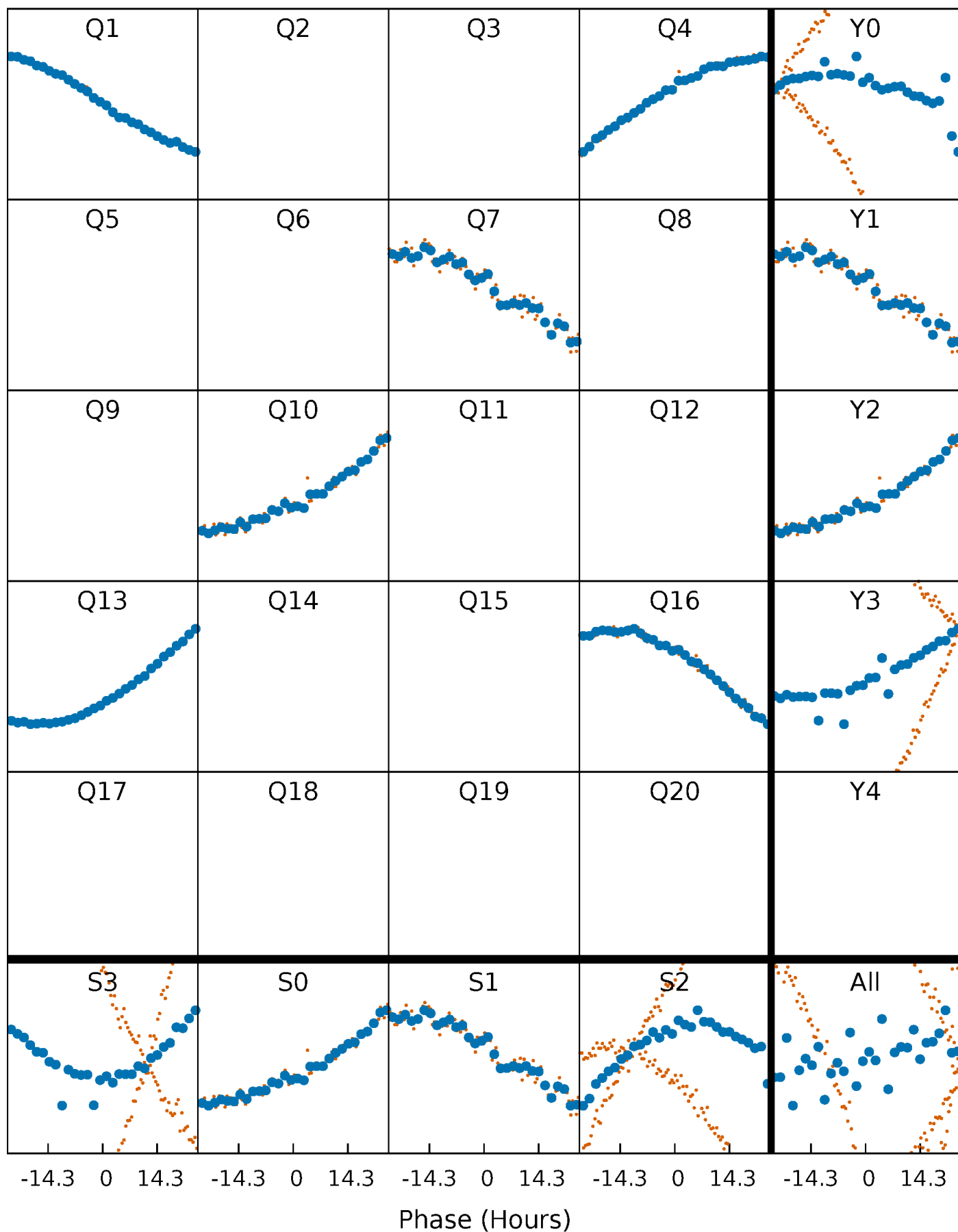


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



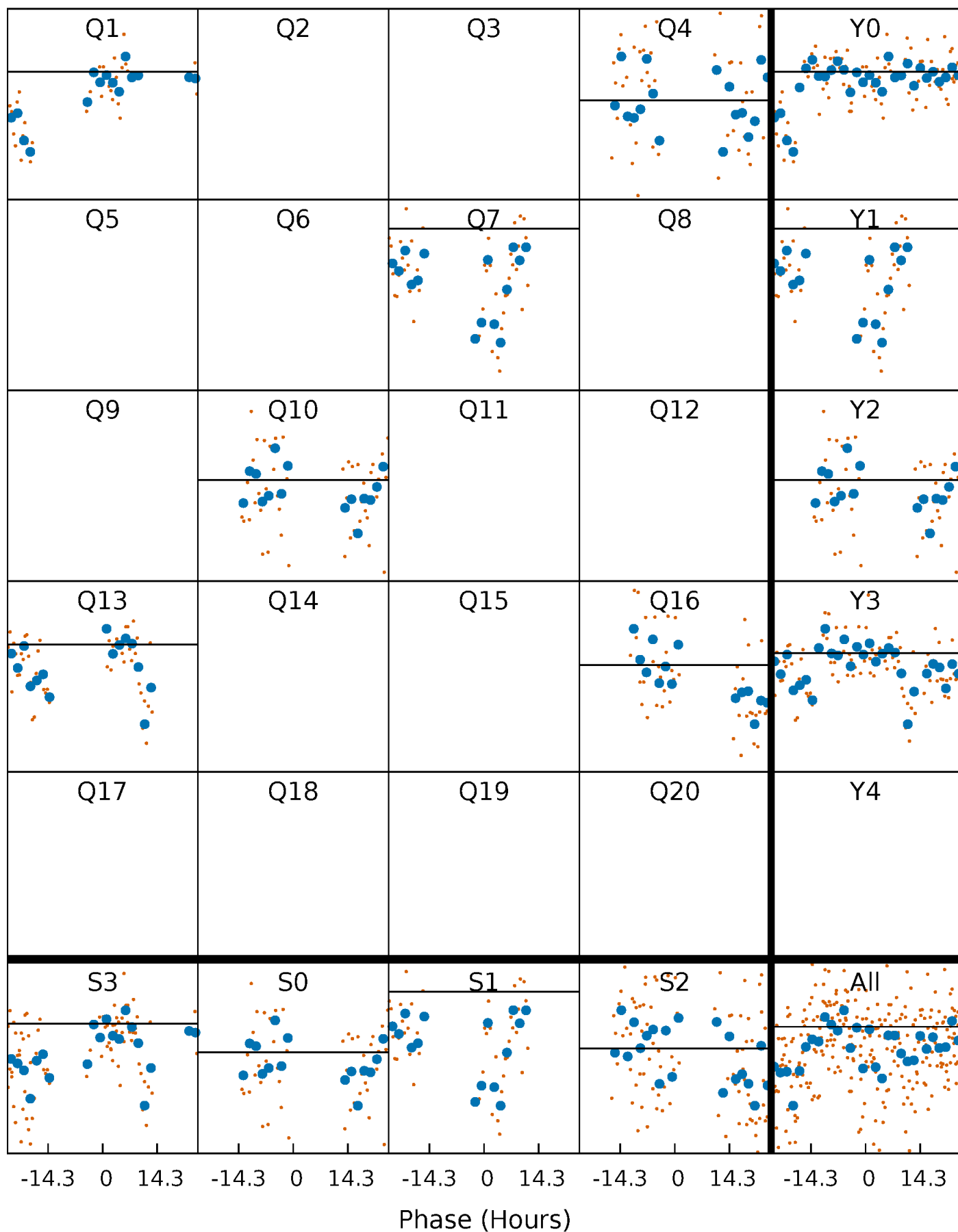
PDC Quarter-Phased Transit Curves

TCE 006535166-02 $P=276.282165$ Days $T_0=152.755085$ (BKJD)



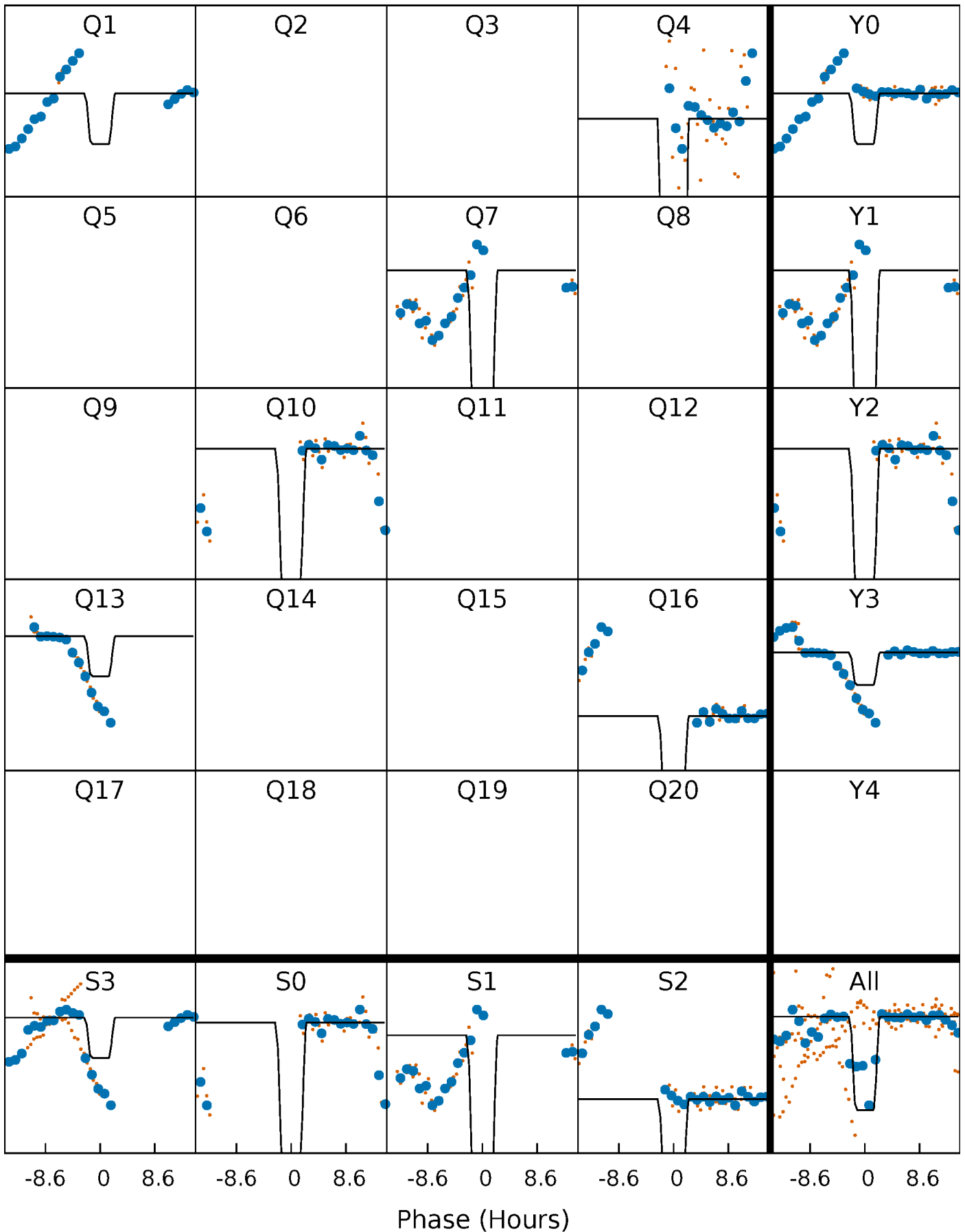
DV Quarter-Phased Transit Curves

TCE 006535166-02 P=276.282165 Days $T_0=152.755085$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

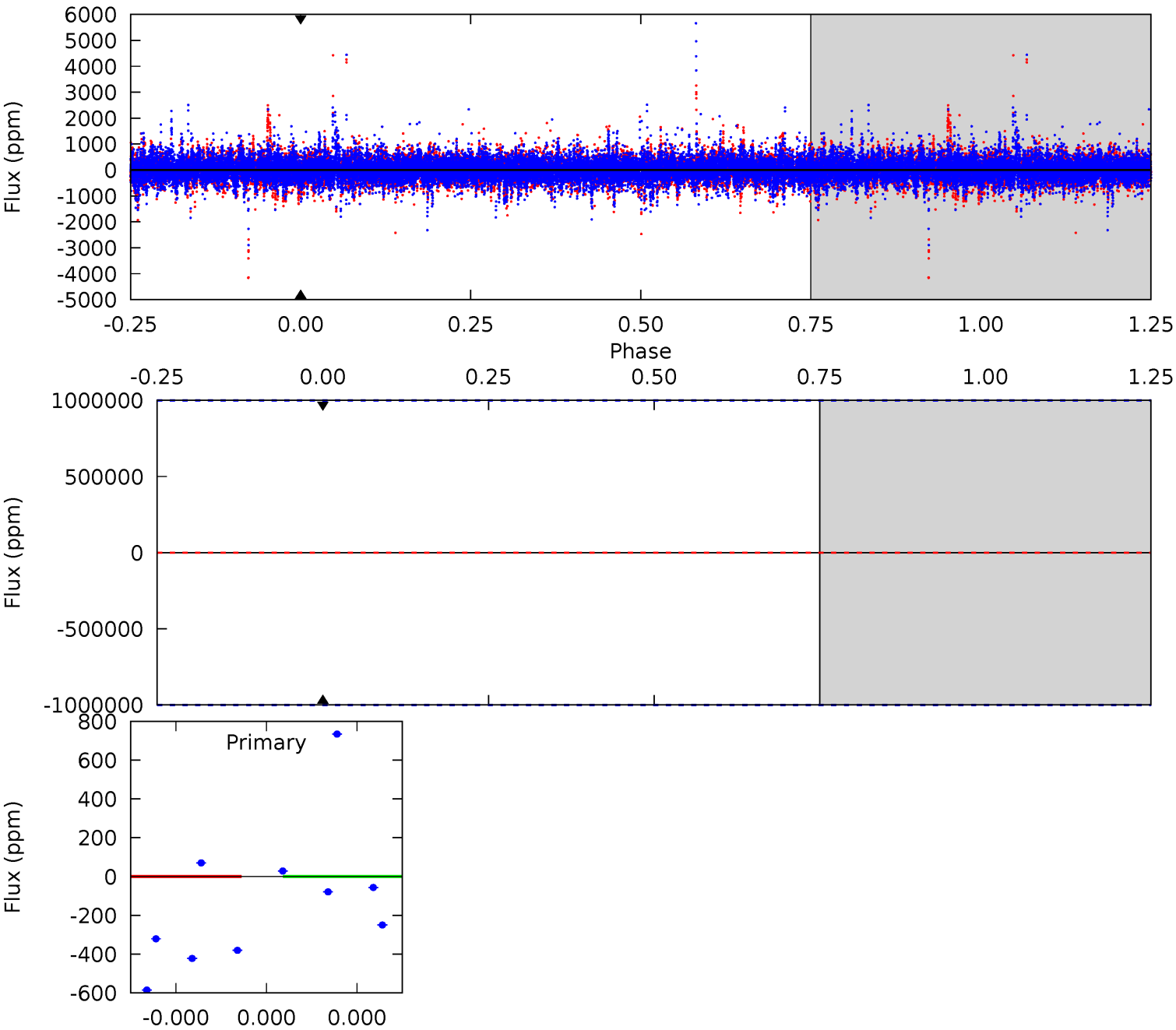
TCE 006535166-02 P=276.282165 Days $T_0=153.238459$ (BKJD)



DV Model-Shift Uniqueness Test

006535166-02, P = 276.282165 Days, E = 152.755085 Days

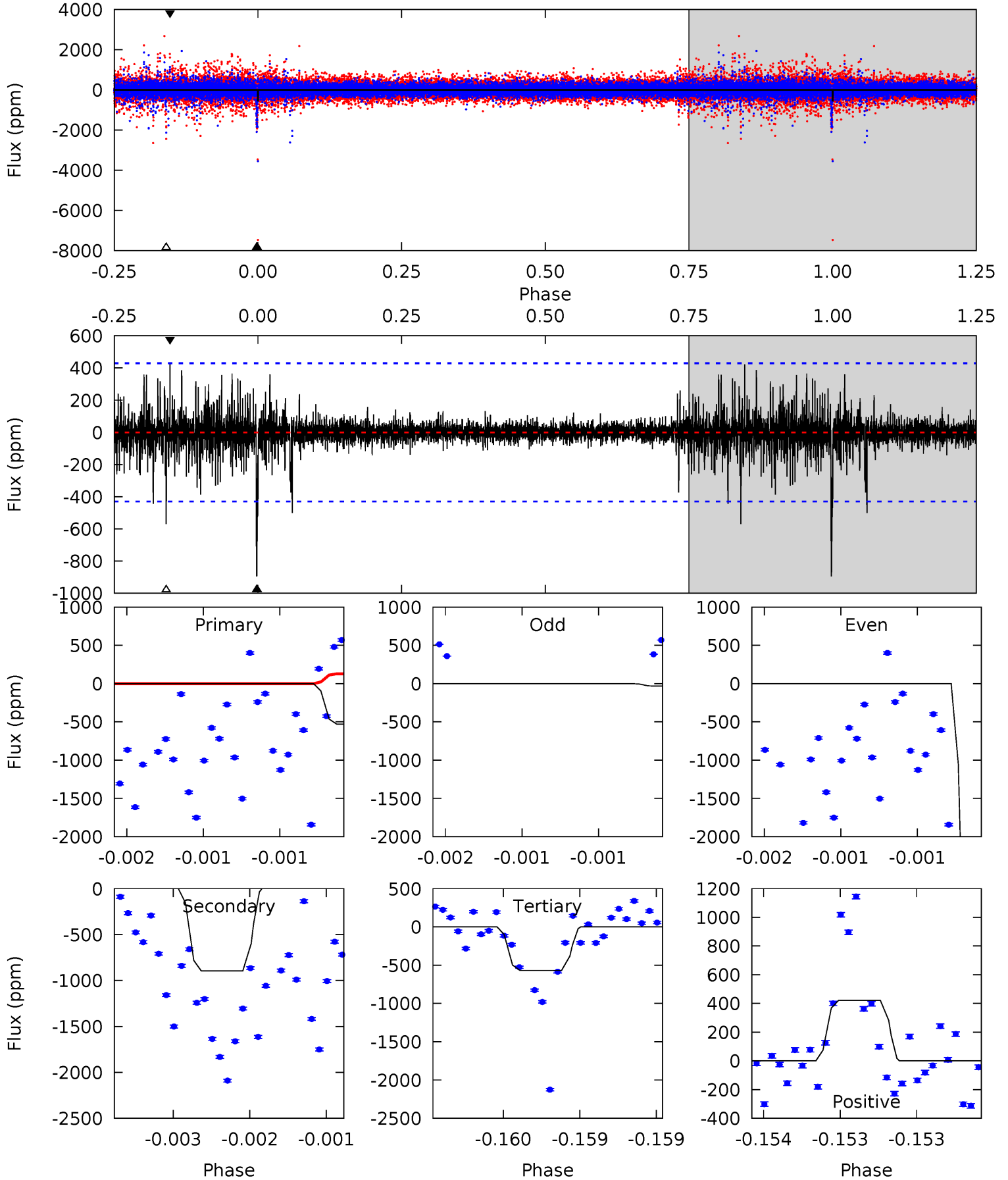
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006535166-02, P = 276.282165 Days, E = 153.238459 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.80	11.5	7.32	5.42	5.52	3.40	0.77	-0.52	1.37	4.18	6.08	38.1	-38.6	0.32	0



Stellar Parameters For KIC 006535166

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	5590^{+152}_{-169}	$4.593^{+0.034}_{-0.136}$	$-0.340^{+0.300}_{-0.300}$	$0.771^{+0.158}_{-0.068}$	$0.862^{+0.078}_{-0.097}$	$2.653^{+0.459}_{-1.006}$
	+3%/-3%	+1%/-3%	+88%/-88%	+20%/-9%	+9%/-11%	+17%/-38%
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 006535166-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$6.89^{+6.96}_{-4.62}$	347^{+19}_{-13}	-4096^{+21809}_{-14331}	$-9559.965^{+1155116.406}_{-1321997.948}$
Alt.	-895 ± 78	$8.18^{+7.80}_{-5.28}$	347^{+18}_{-15}	3594^{+1800}_{-639}	4440^{+31881}_{-3245}

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

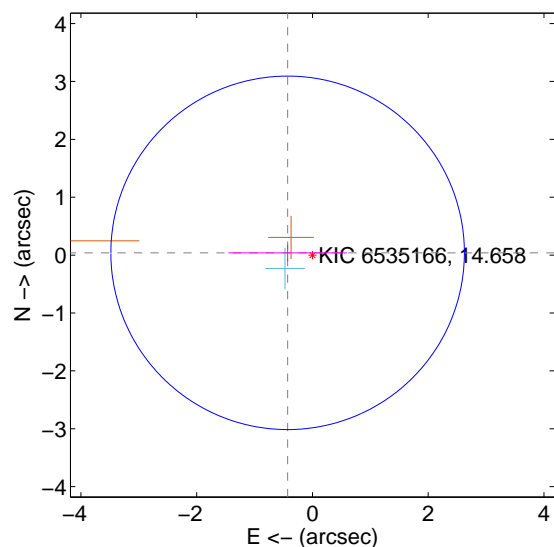
Supplemental centroid analysis for 006535166-02. Kepler magnitude: 14.66. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

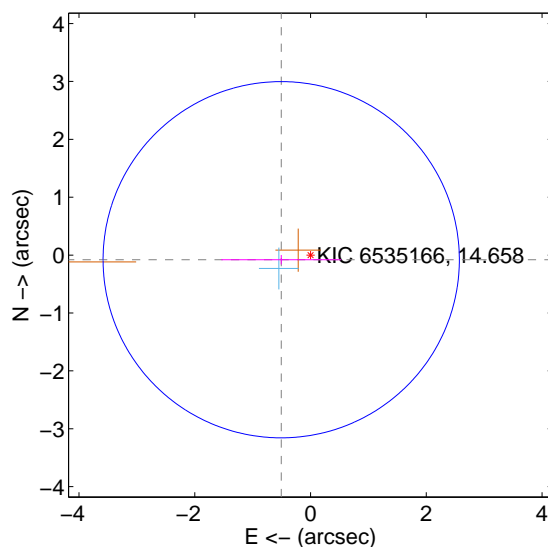
The direct PRF centroid is offset from the target star catalog position by about 0.37 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.431 ± 1.018	0.42	0.429 ± 1.024	0.039 ± 0.144
PRF-fit source offset from KIC position	0.513 ± 1.026	0.50	0.506 ± 1.035	-0.080 ± 0.080
photometric centroid source offset	0.46 ± 0.15	3.15	0.14 ± 0.16	-0.44 ± 0.15

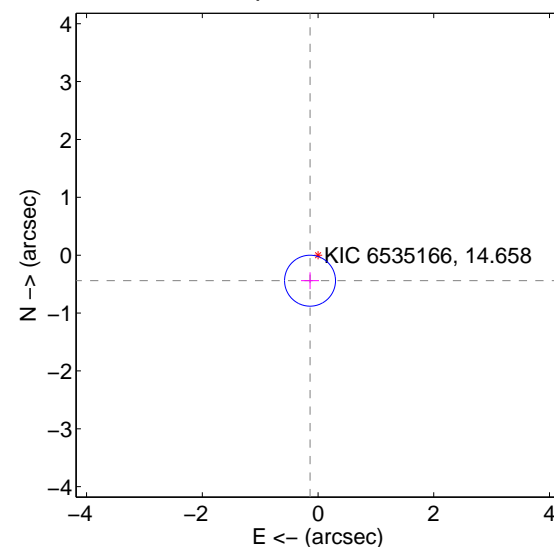
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

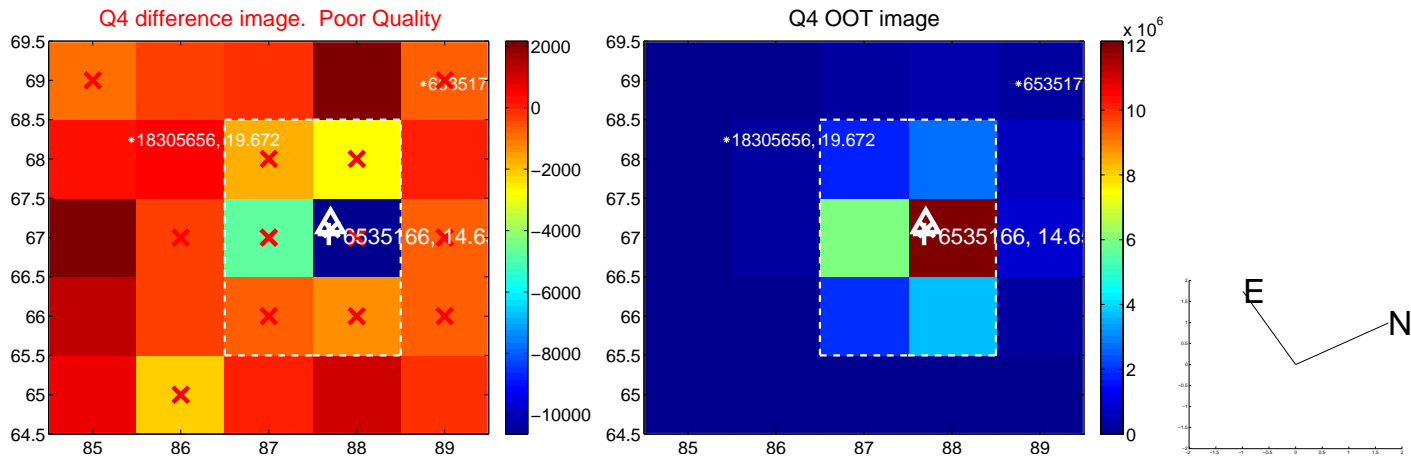
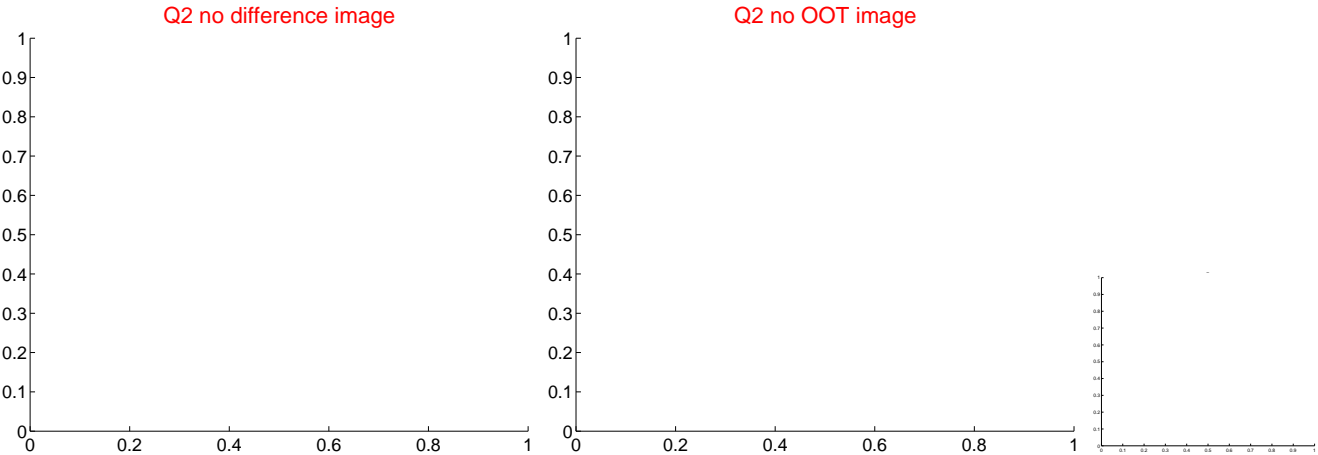
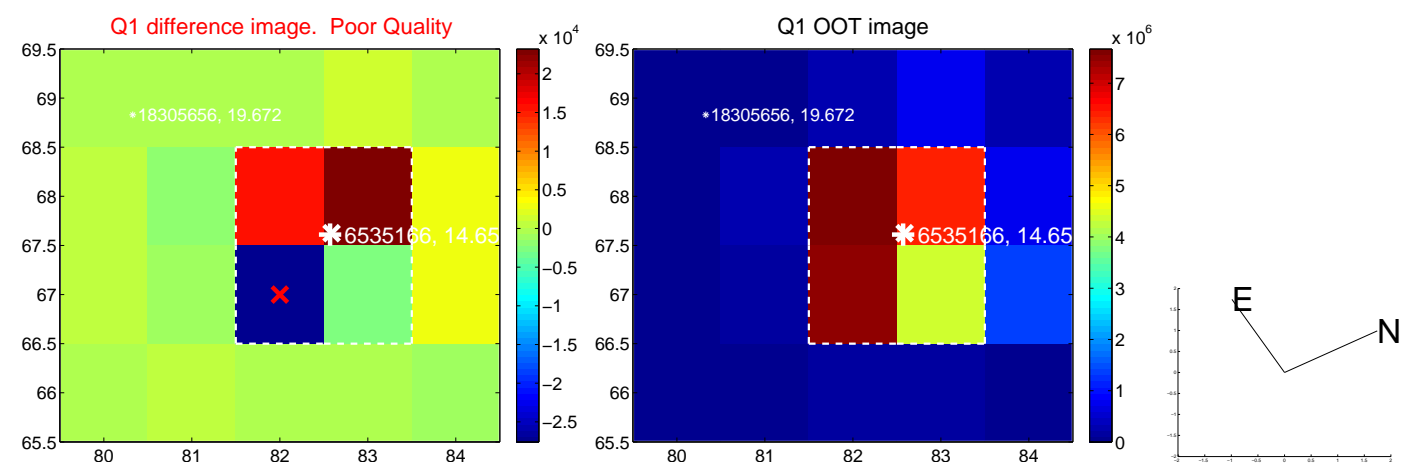


offset from photometric centroids



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 ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

Q5 no difference image



Q5 no OOT image



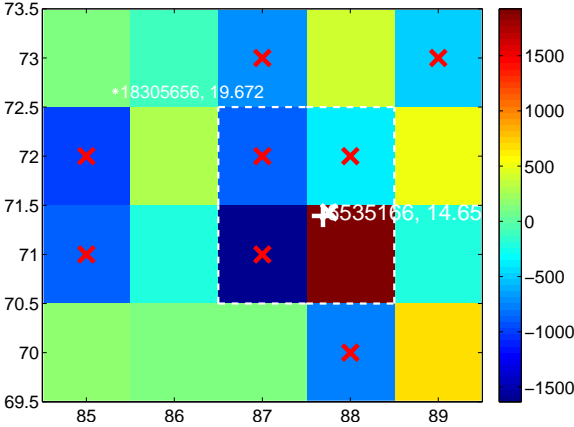
Q6 no difference image



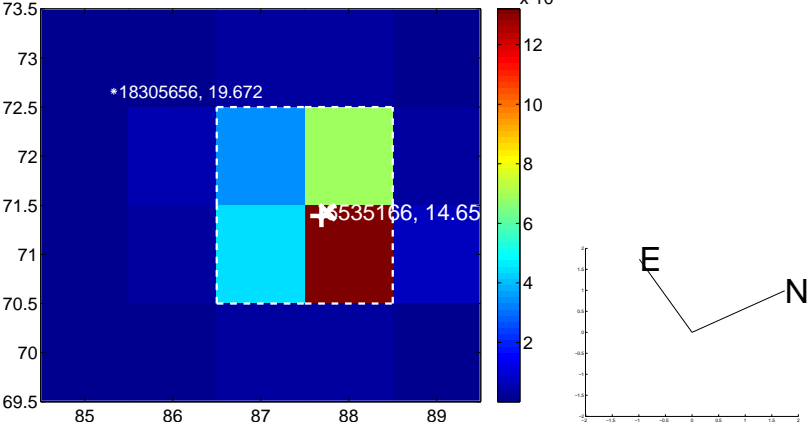
Q6 no OOT image



Q7 difference image. Poor Quality



Q7 OOT image



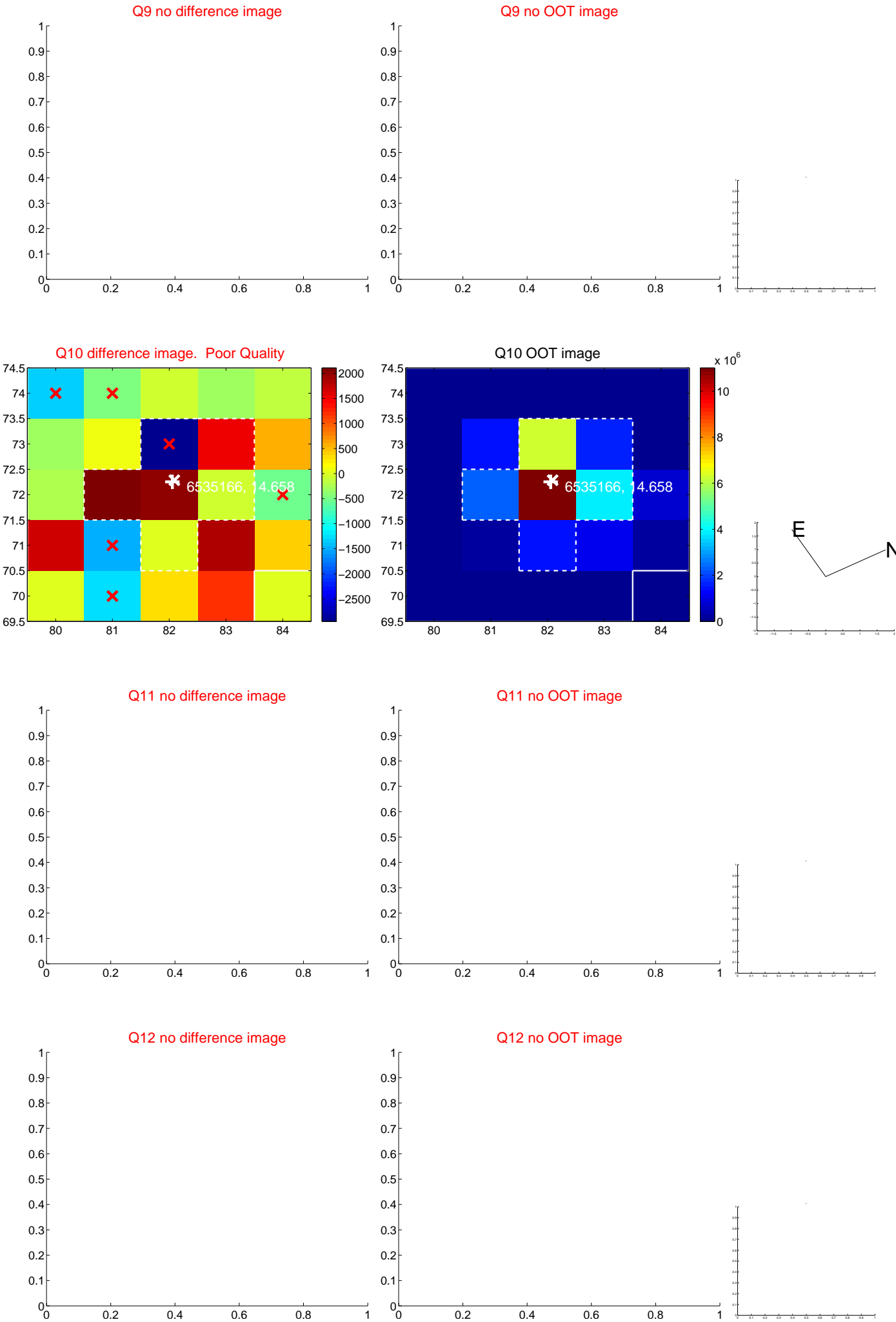
Q8 no difference image



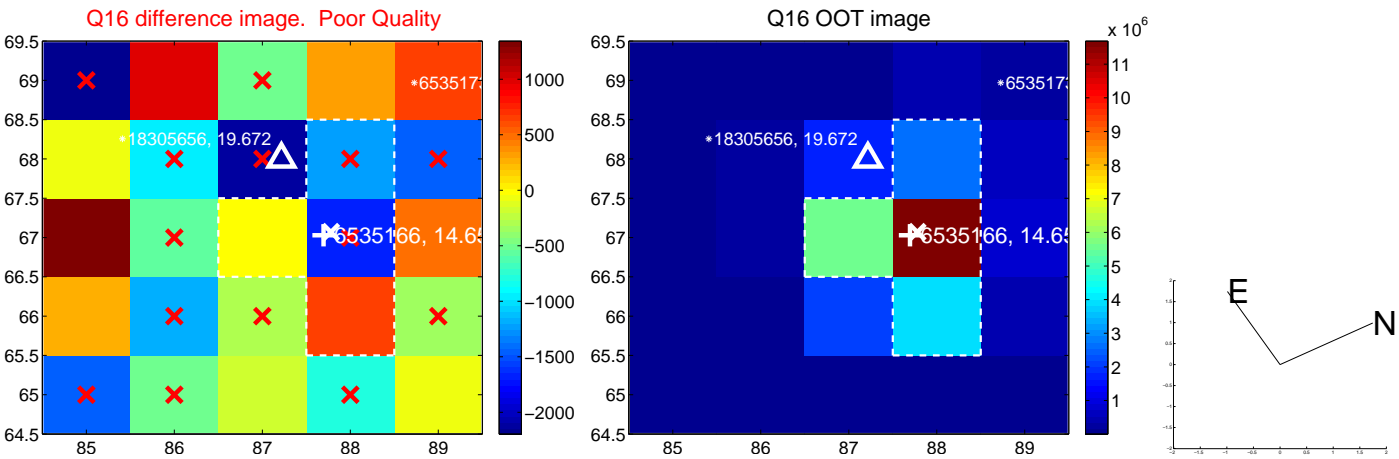
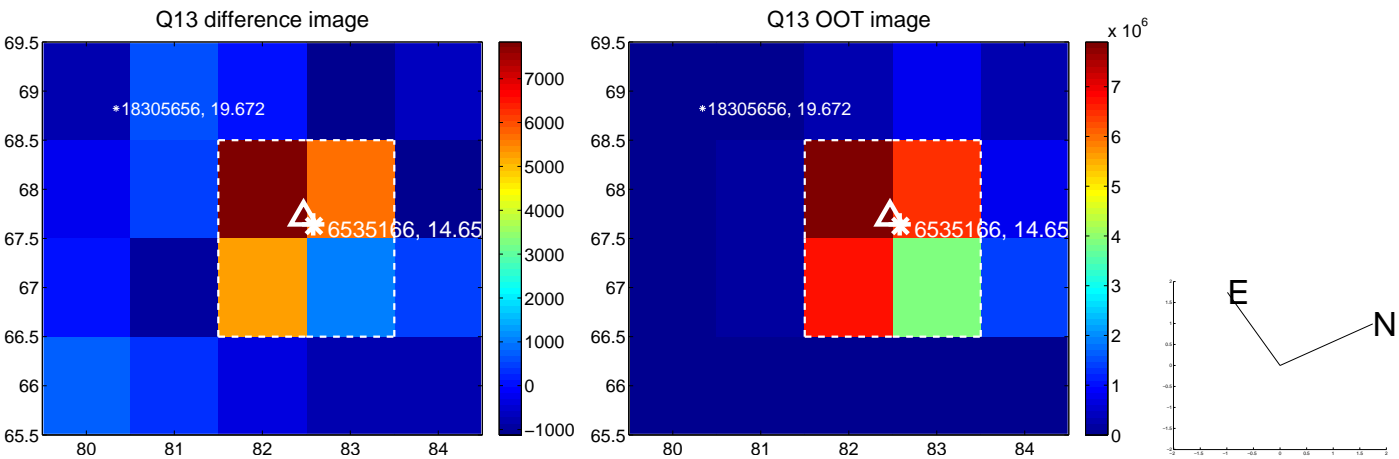
Q8 no OOT image



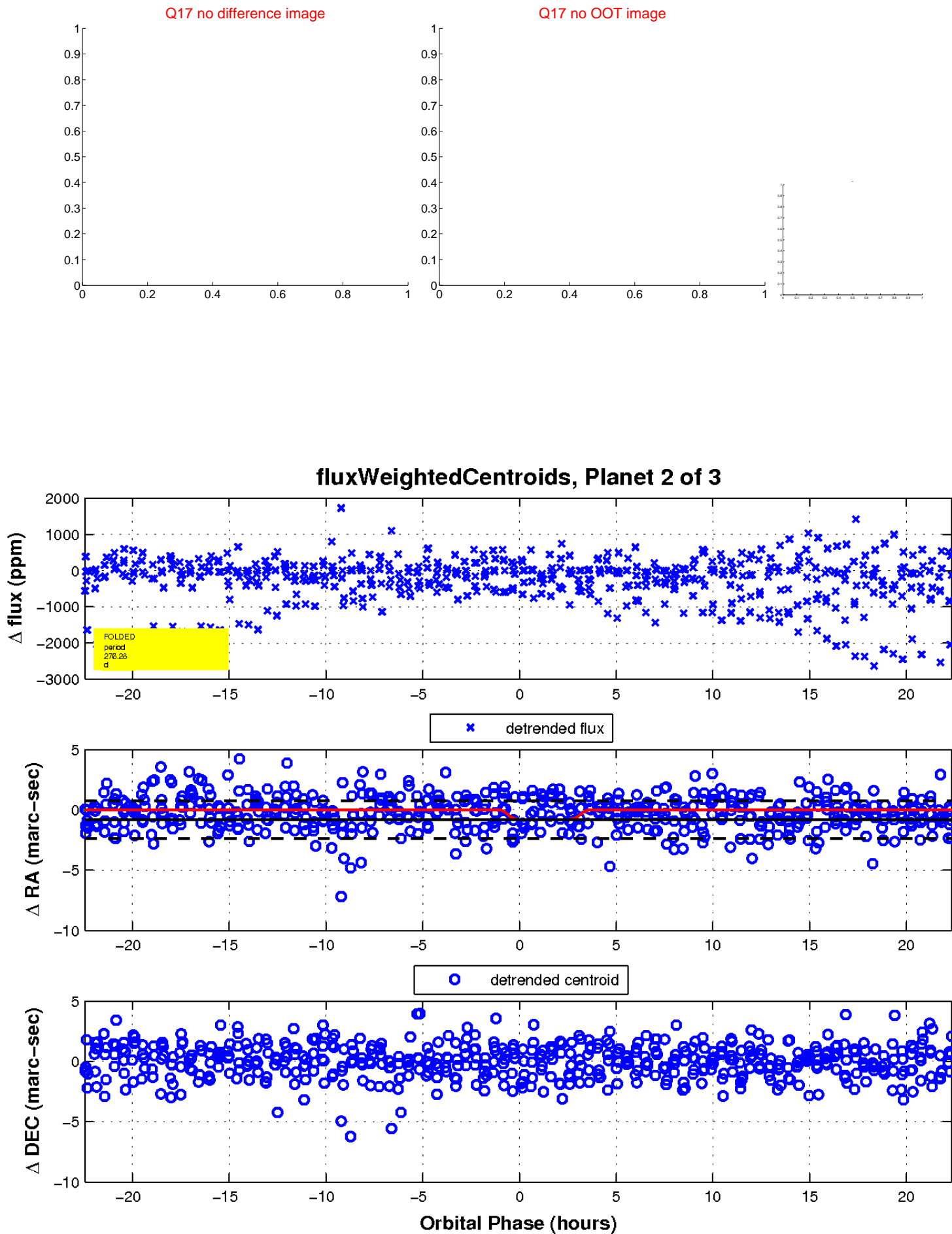
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

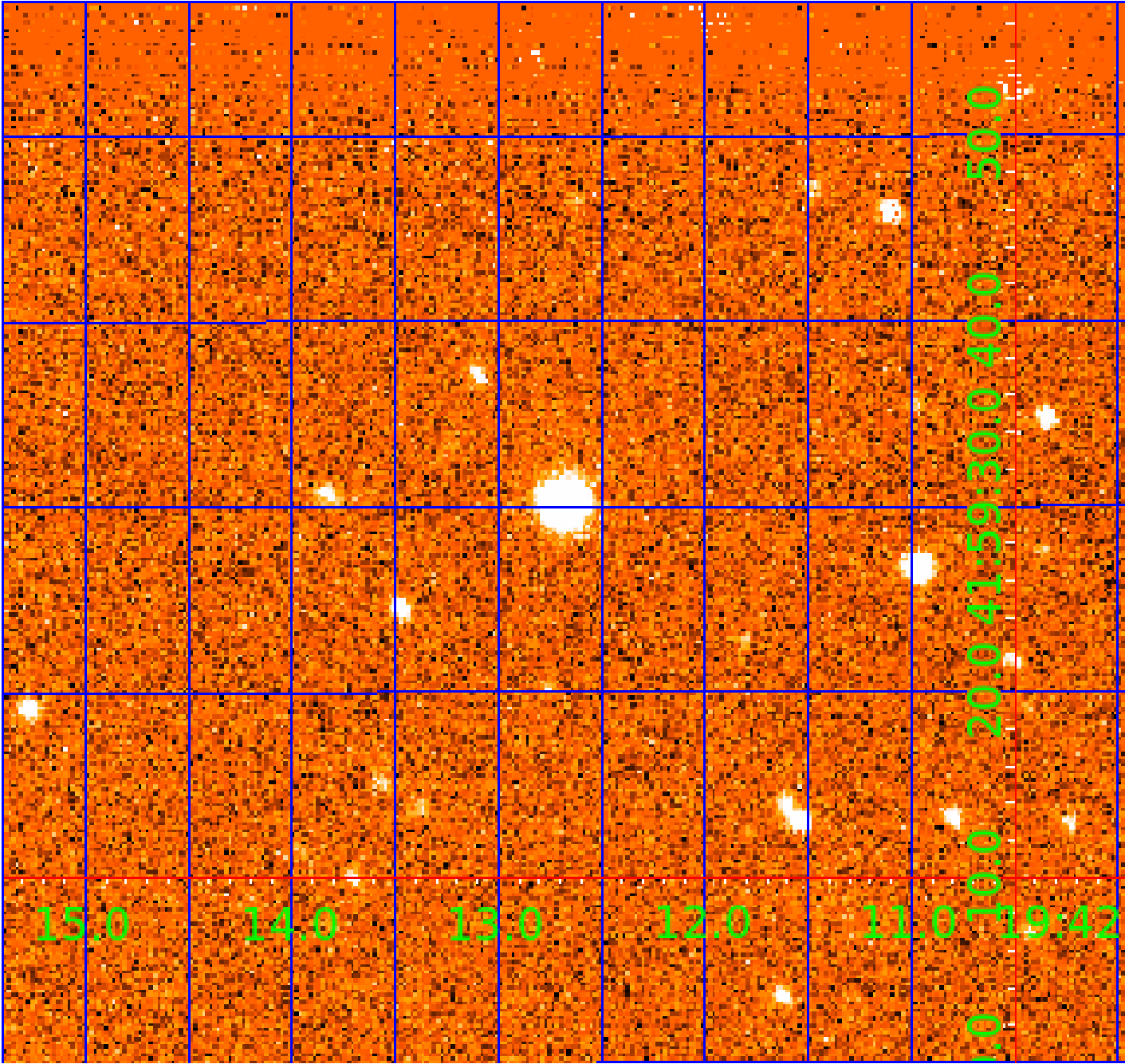


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006535166

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})
006535166-01	OBS	No	1.130201	131.940647	39.9	4.405	7.5	8.3	0.77	5590	0.58	1285.40
006535166-02	OBS	No	276.282165	152.755085	945.3	12.500	15.7	-1.0	0.77	5590	2.35	0.84
006535166-03	OBS	No	415.994137	155.171293	972.6	10.800	13.9	7.6	0.77	5590	4.65	0.49

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006535166-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006535166-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
006535166-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_DV—INCONSISTENT_TRANS

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

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

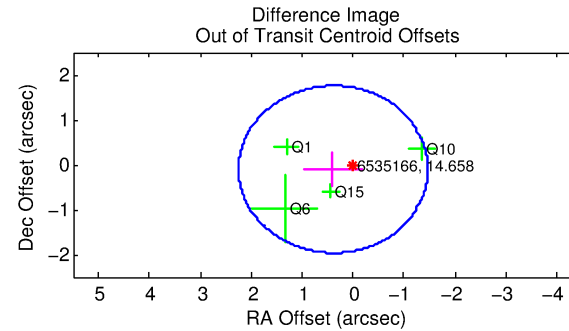
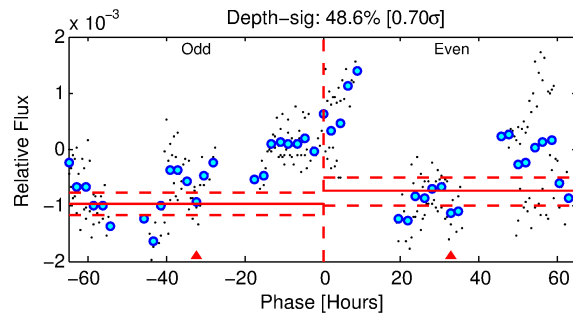
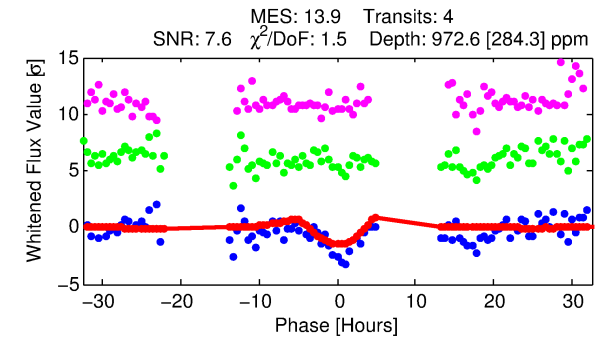
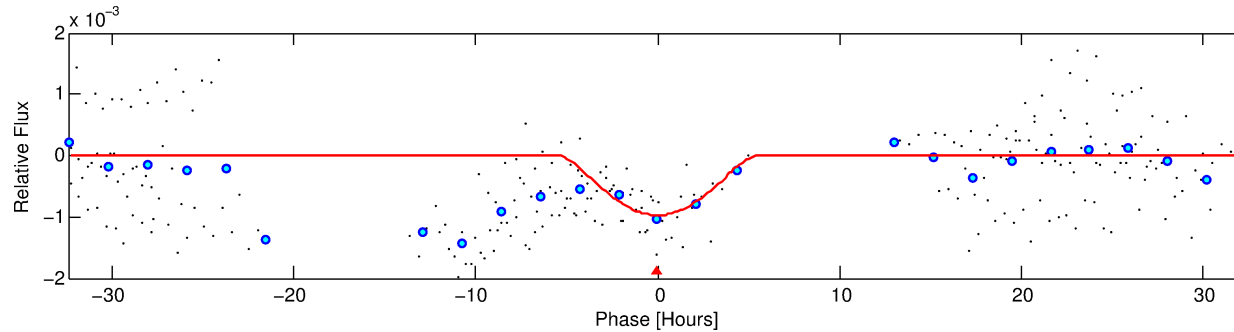
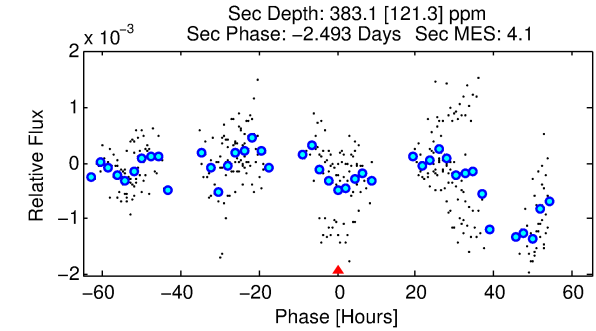
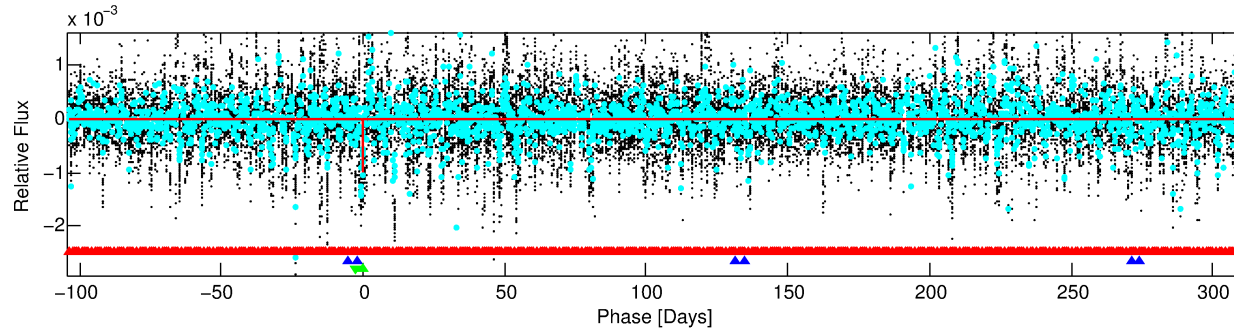
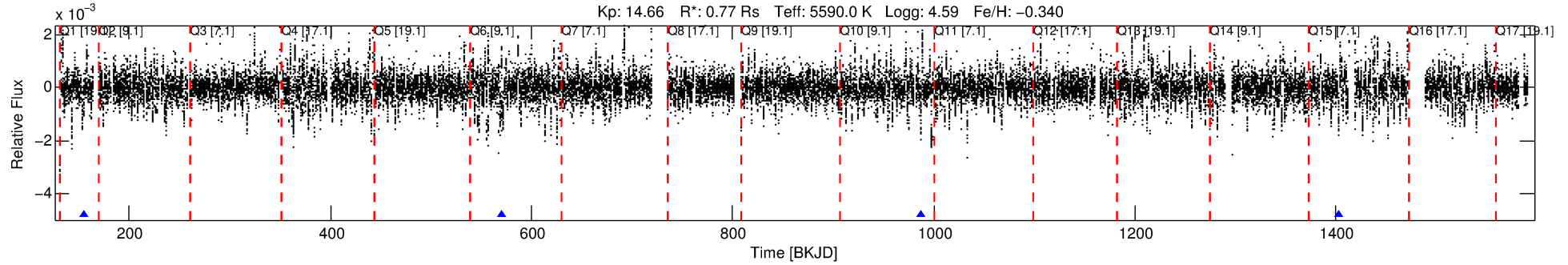
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006535166-03

No Significant Match Found

DV One-Page Summary

KIC: 6535166 Candidate: 3 of 3 Period: 415.994 d



DV Fit Results:

Period = 415.99414 [0.01661] d
Epoch = 155.1713 [0.0214] BKJD
Rp/R* = 0.0553 [0.1886]
a/R* = 100.00 [81.98]
b = 1.00 [0.28]
Seff = 0.49 [0.14]
Teq = 213 [15] K
Rp = 4.65 [15.90] Re
a = 1.0331 [0.1776] AU
Ag = 10394.71 [71047.50] [0.15σ]
Teffp = 3326 [5680] K [0.55σ]

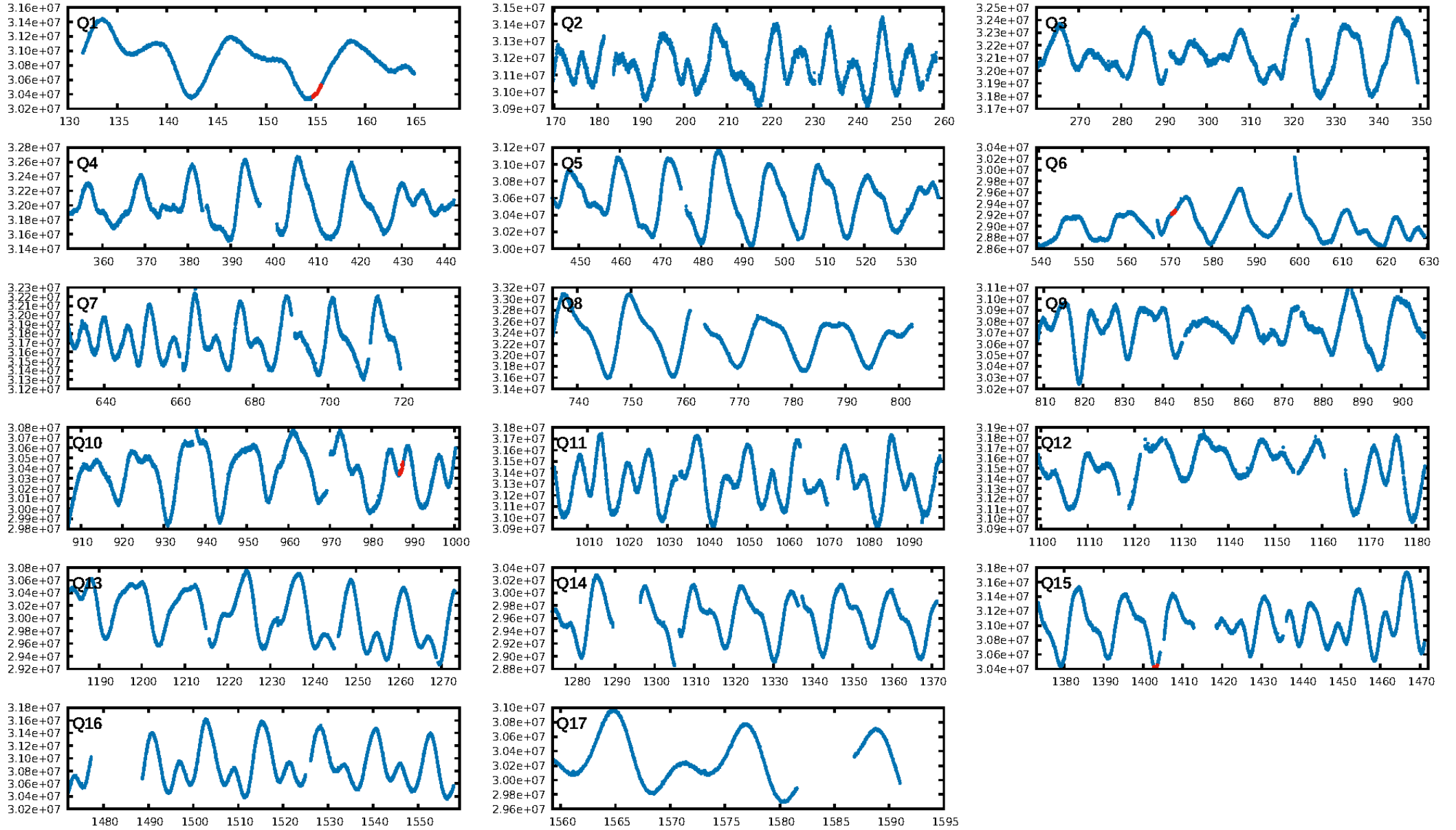
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [202.98σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 1.1%
ModelChiSquareGof-sig: 99.8%
Bootstrap-pfa: 1.99e-22
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.4391
Centroid-sig: N/A
Centroid-so: 0.327 arcsec [0.55σ]
OotOffset-rm: 0.404 arcsec [0.65σ]
KicOffset-rm: 0.937 arcsec [1.19σ]
OotOffset-st: 2/1/0/1 [4]
KicOffset-st: 2/1/0/1 [4]
DiffImageQuality-fgm: 0.75 [3/4]
DiffImageOverlap-fno: 0.00 [0/4]

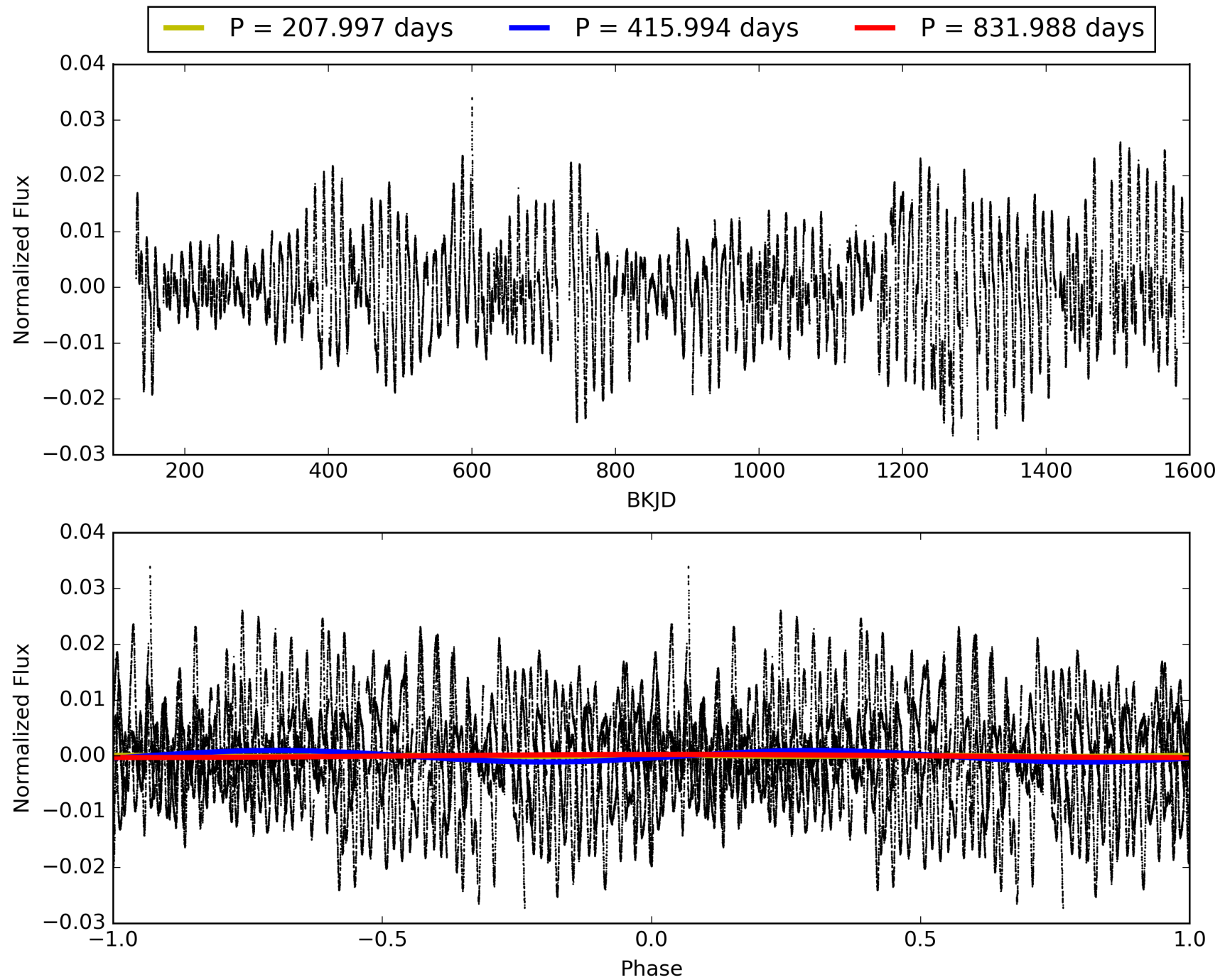
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 00:06:44 Z

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

TCE 006535166-03, PDC Light Curves

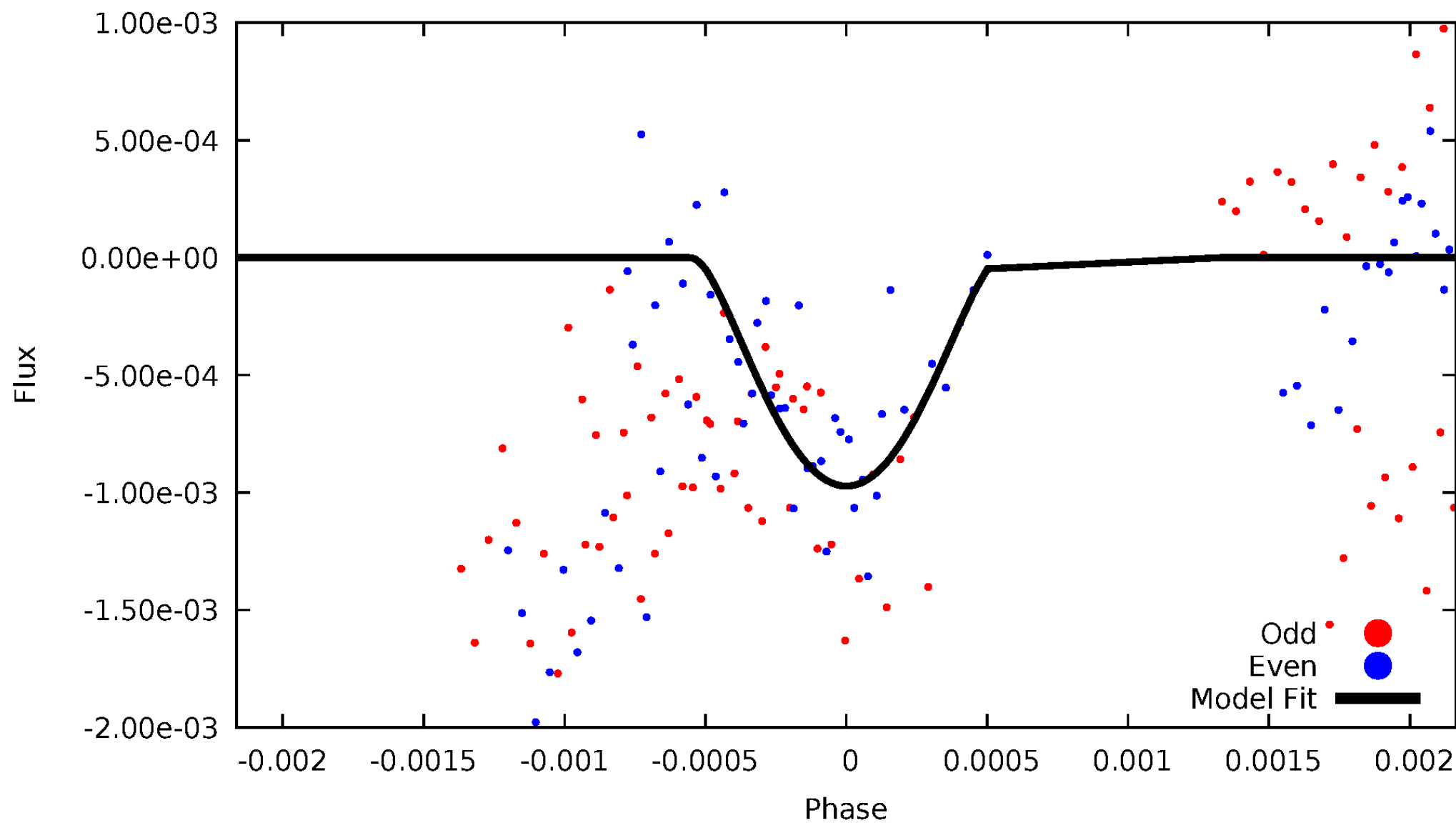


TCE 006535166-03



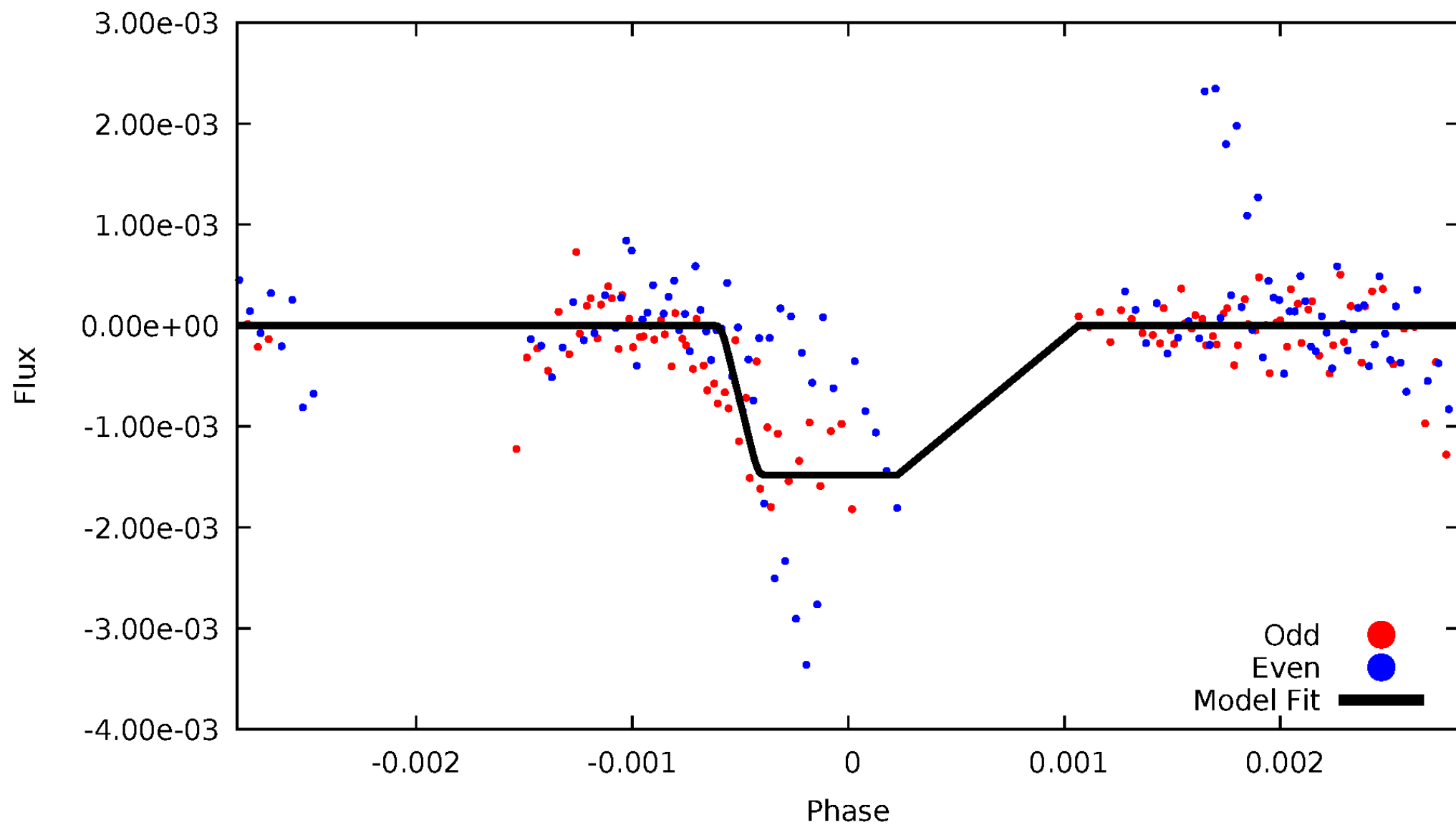
DV Odd/Even

TCE 006535166-03



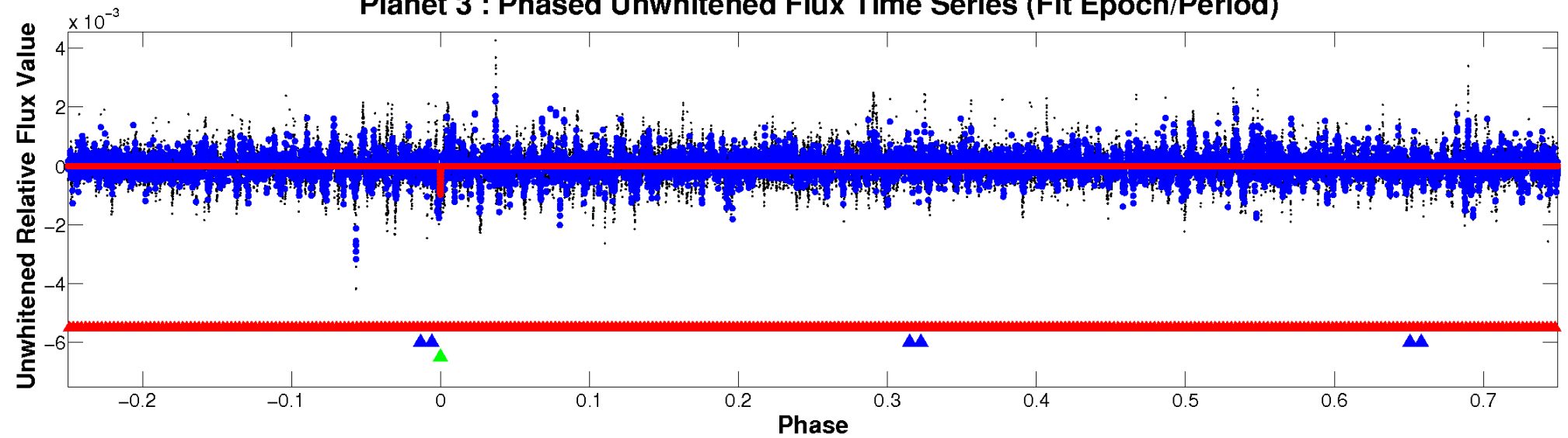
ALT Odd/Even

TCE 006535166-03

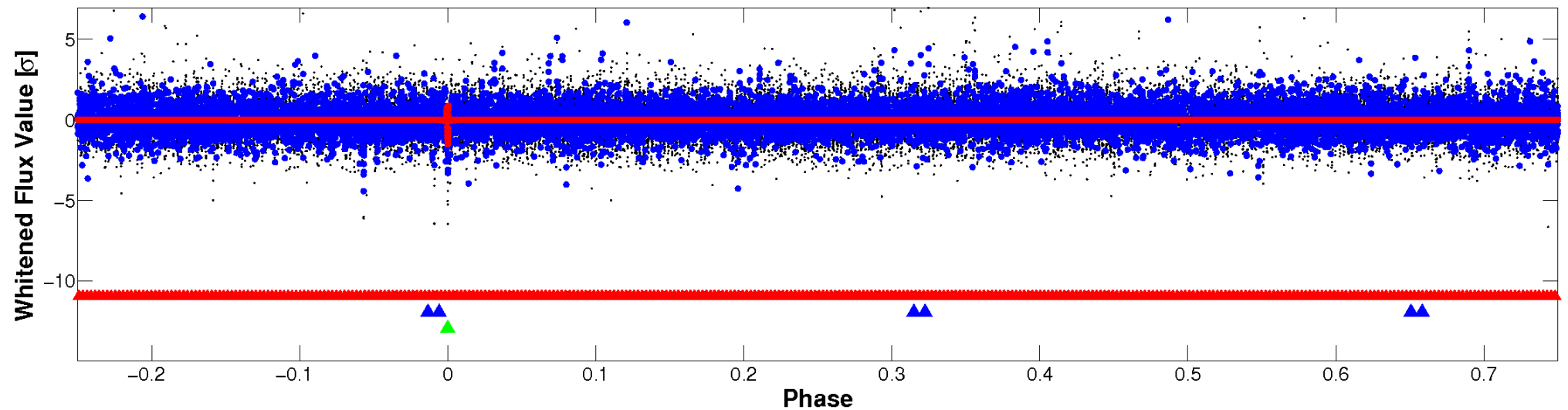


Non-Whitened Vs. Whitened Light Curve

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

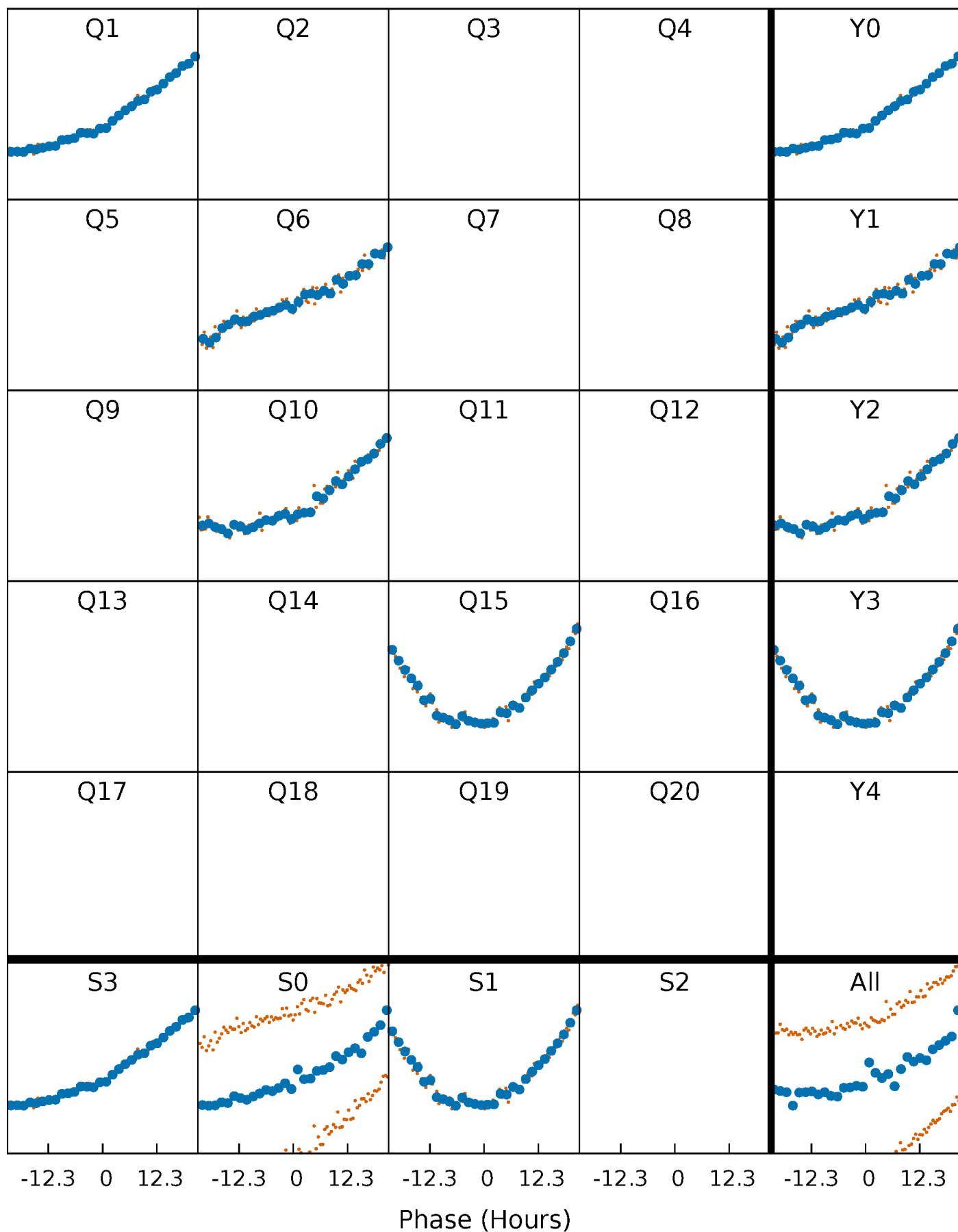


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



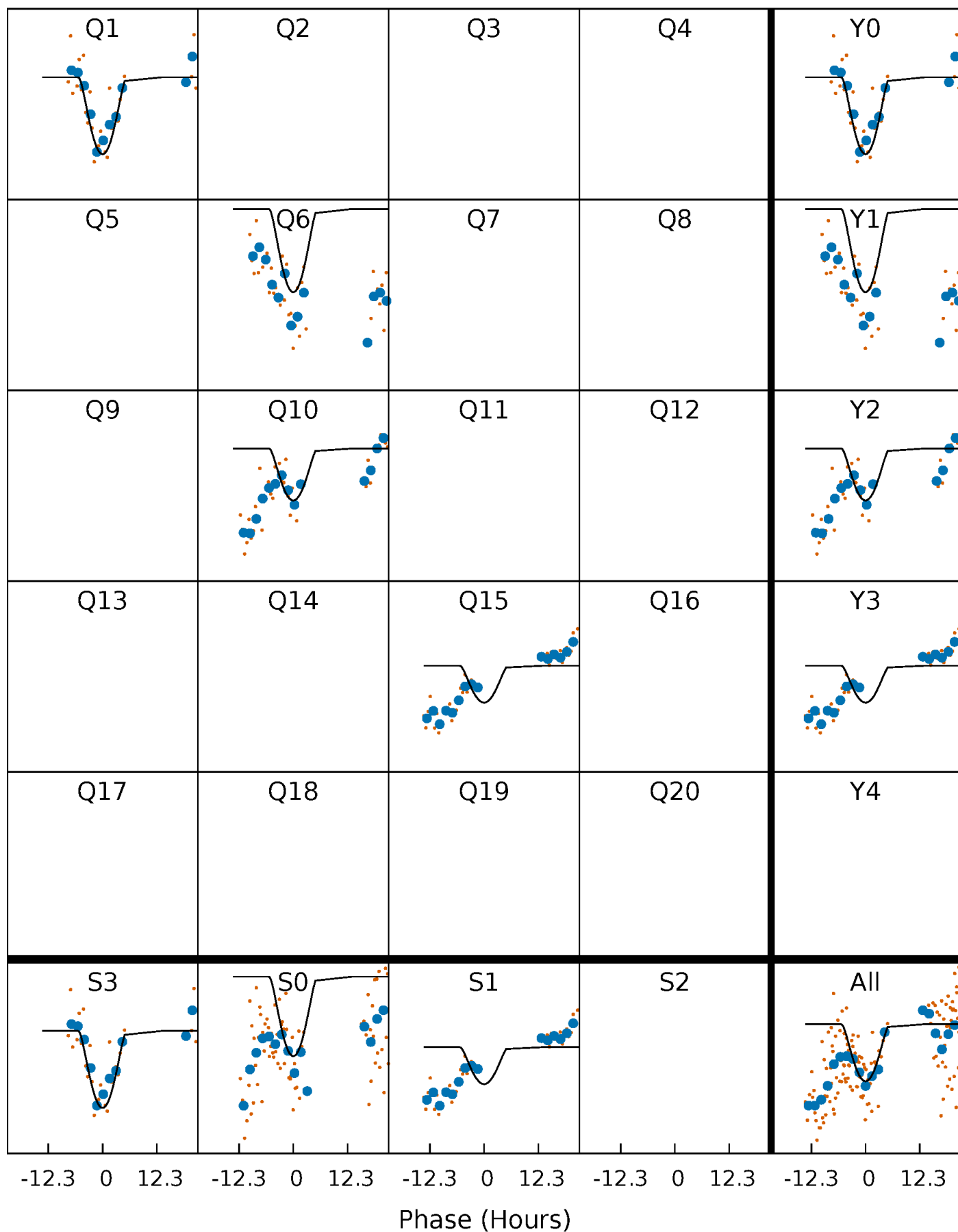
PDC Quarter-Phased Transit Curves

TCE 006535166-03 $P=415.994137$ Days $T_0=155.171293$ (BKJD)



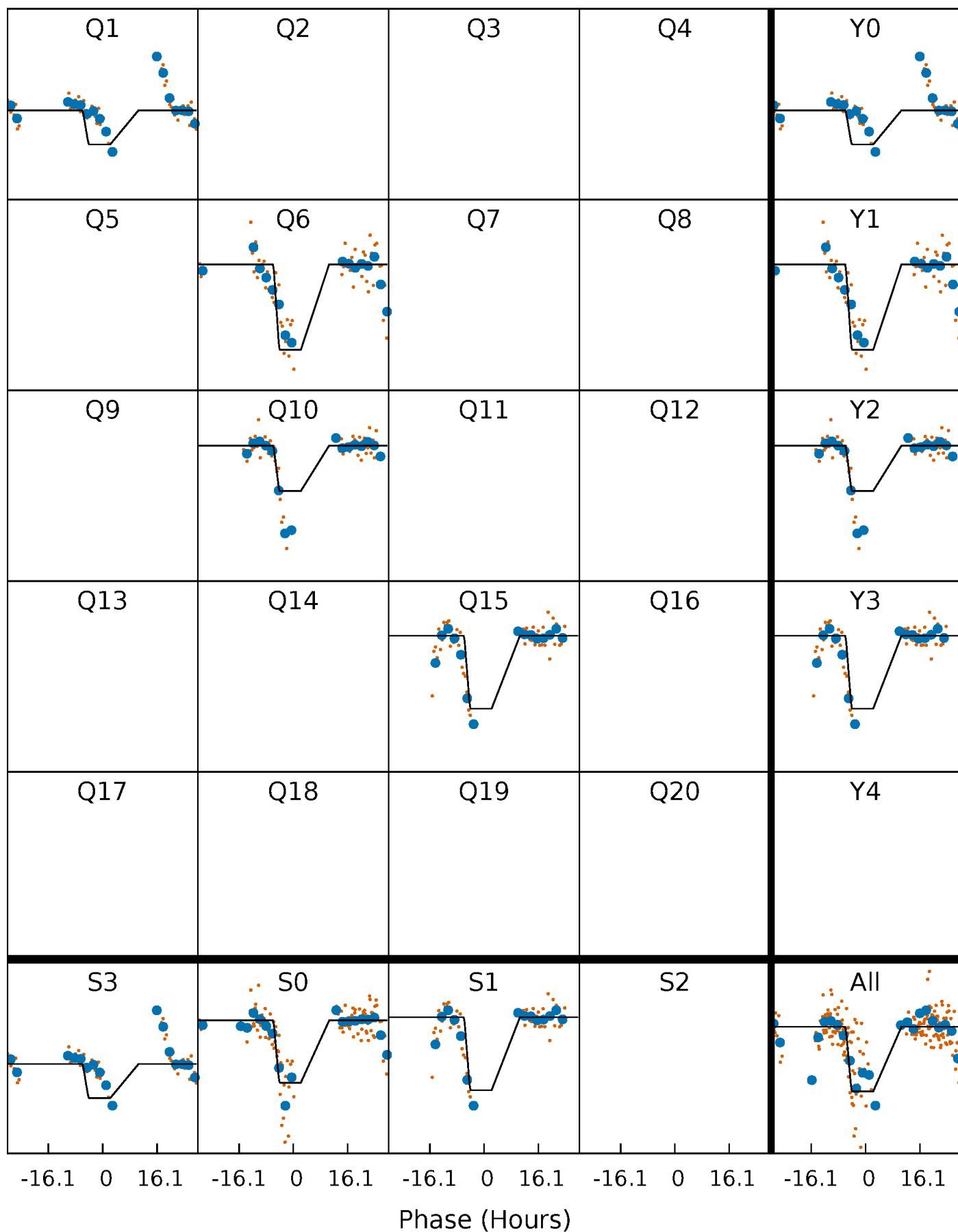
DV Quarter-Phased Transit Curves

TCE 006535166-03 $P=415.994137$ Days $T_0=155.171293$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

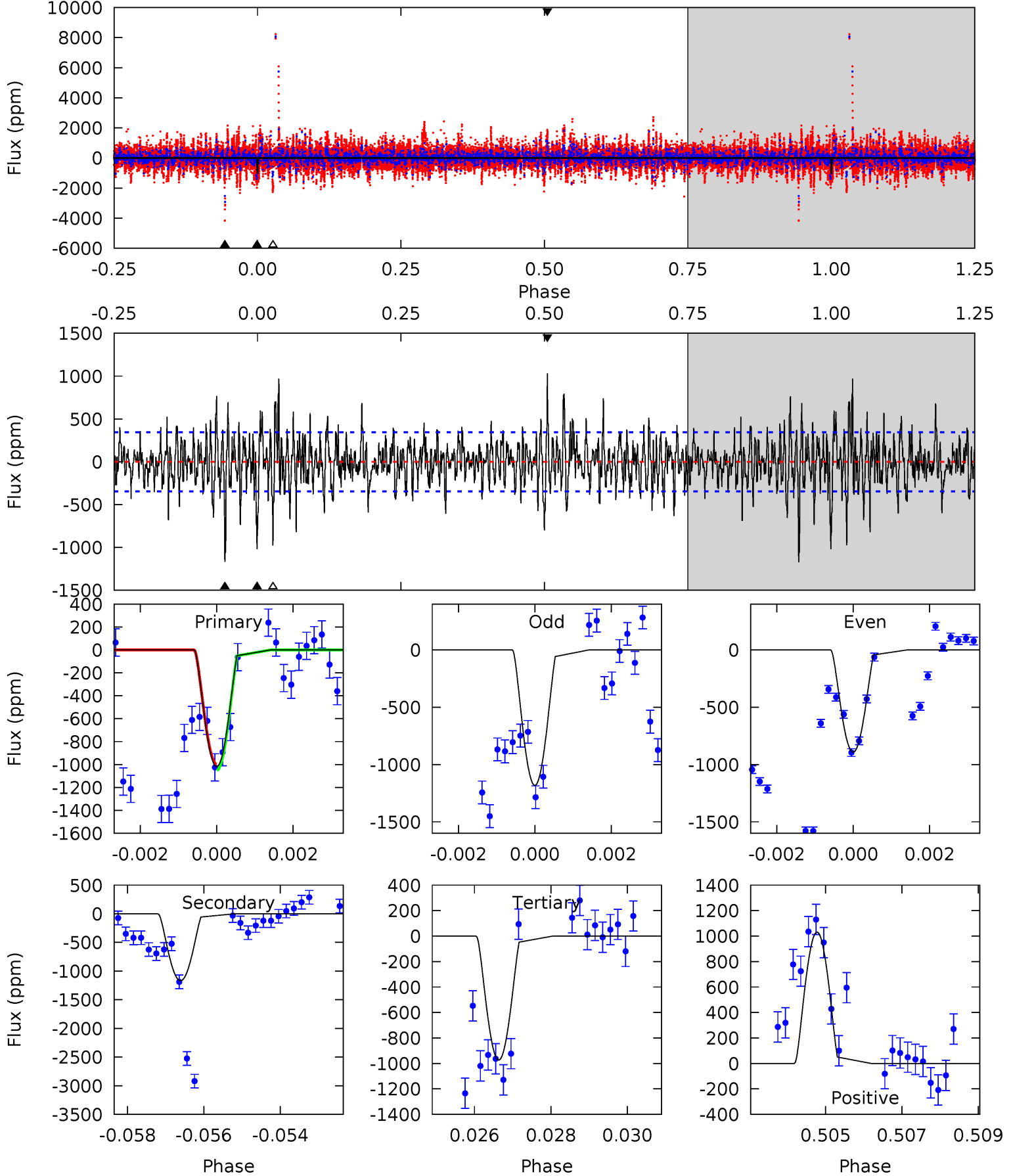
TCE 006535166-03 P=415.993226 Days $T_0=155.285694$ (BKJD)



DV Model-Shift Uniqueness Test

006535166-03, P = 415.994137 Days, E = 155.171293 Days

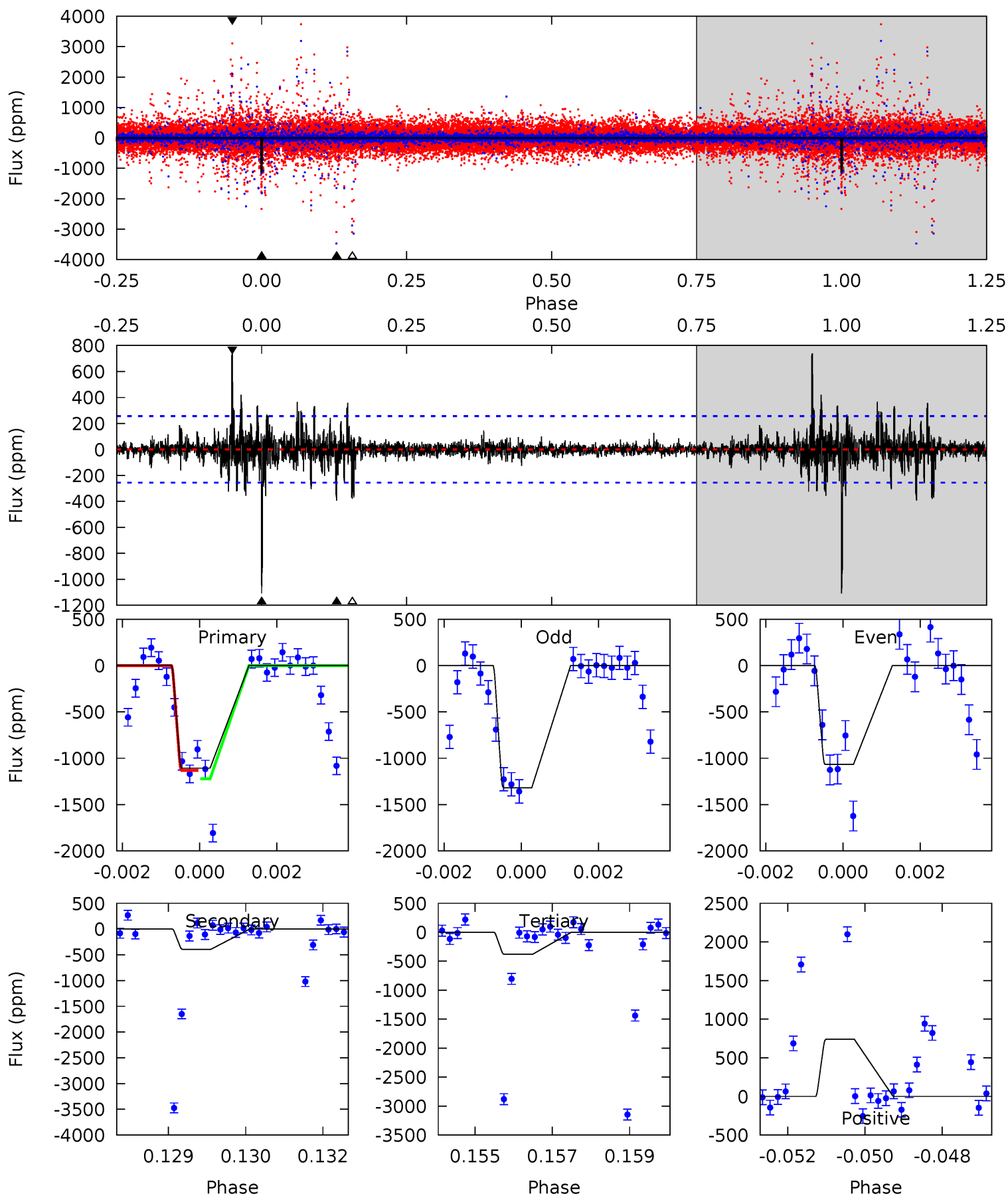
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.8	18.1	15.1	16.0	5.34	3.11	3.56	0.69	-0.20	3.00	2.10	2.18	1.08	0.47	0.39



Alt Model-Shift Uniqueness Test

006535166-03, P = 415.993226 Days, E = 155.285694 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.2	8.22	7.95	15.5	5.36	3.14	1.22	15.2	7.70	0.27	-7.26	2.63	0.97	0.40	0.70



Stellar Parameters For KIC 006535166

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5590^{+152}_{-169}	$4.593^{+0.034}_{-0.136}$	$-0.340^{+0.300}_{-0.300}$	$0.771^{+0.158}_{-0.068}$	$0.862^{+0.078}_{-0.097}$	$2.653^{+0.459}_{-1.006}$
	+3%/-3%	+1%/-3%	+88%/-88%	+20%/-9%	+9%/-11%	+17%/-38%
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 006535166-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1167 ± 65	$13.33^{+12.89}_{-9.05}$	304^{+14}_{-12}	3233^{+1547}_{-544}	3875^{+32824}_{-2890}
Alt.	-393 ± 48	$12.26^{+13.33}_{-8.47}$	303^{+16}_{-13}	2819^{+1209}_{-458}	1472^{+14452}_{-1131}

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 $A_{obs} \gg 1.0$

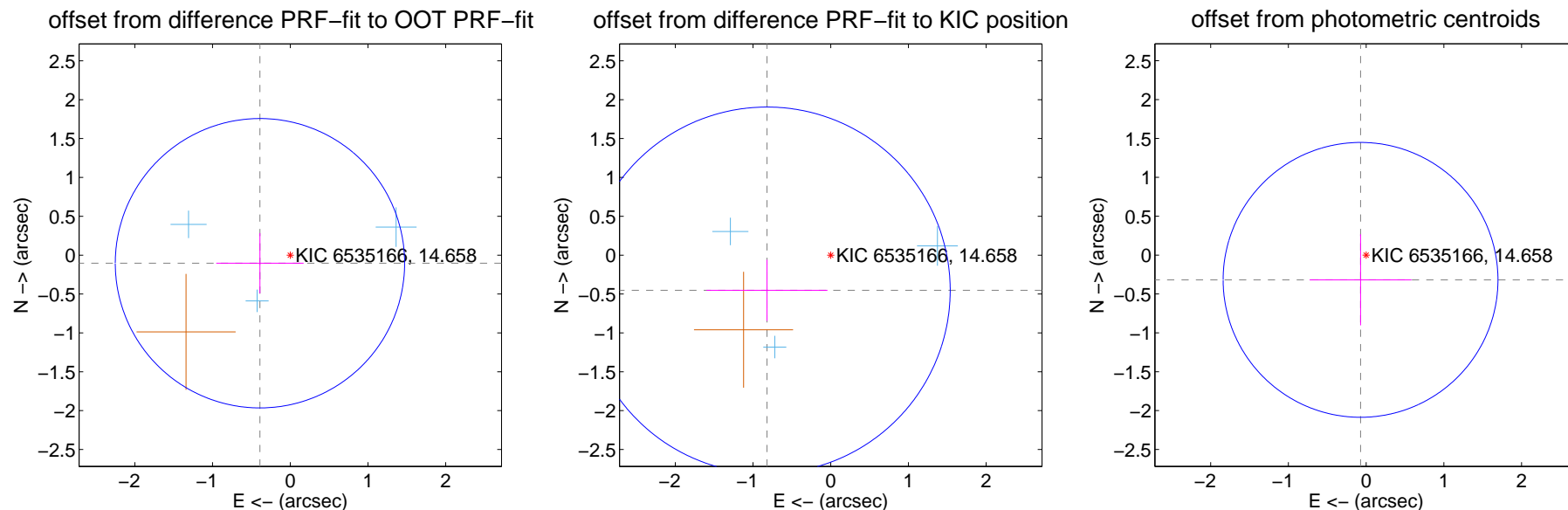
DV Centroid Data

Supplemental centroid analysis for 006535166-03. Kepler magnitude: 14.66. Transit SNR 7.59

There are 3 quarters with good PRF difference image offsets

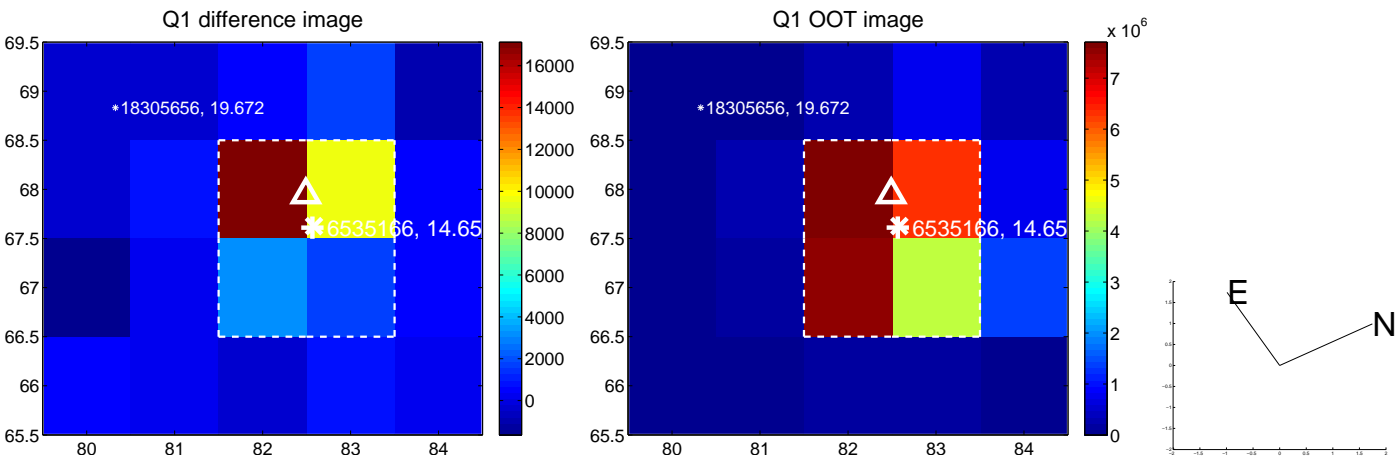
The direct PRF centroid is offset from the target star catalog position by about 0.66 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.404 ± 0.620	0.65	0.390 ± 0.562	-0.104 ± 0.388
PRF-fit source offset from KIC position	0.937 ± 0.786	1.19	0.820 ± 0.778	-0.452 ± 0.392
photometric centroid source offset	0.33 ± 0.59	0.55	0.07 ± 0.66	-0.32 ± 0.59

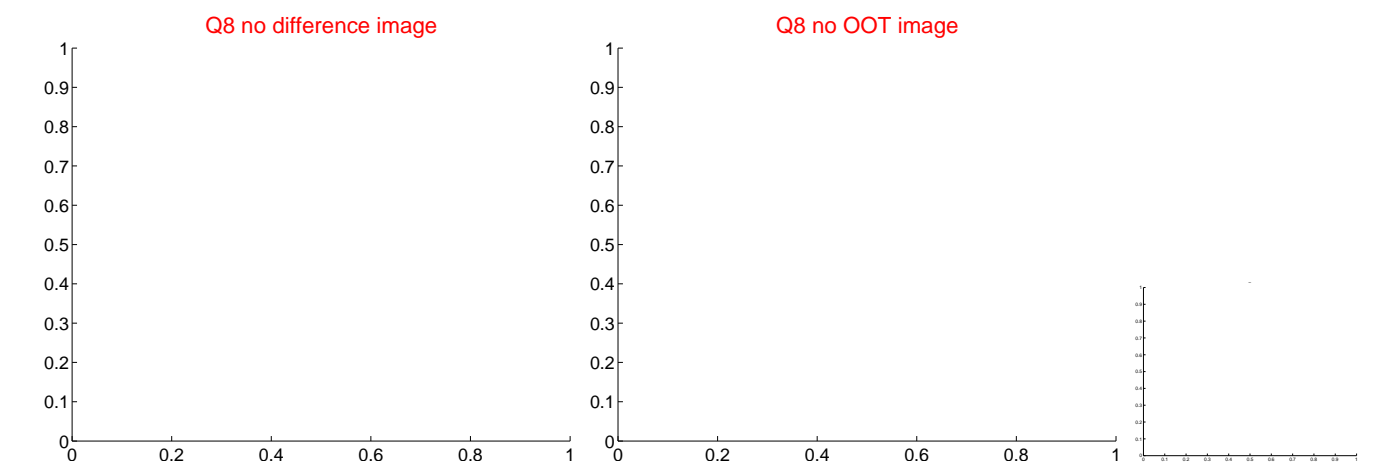
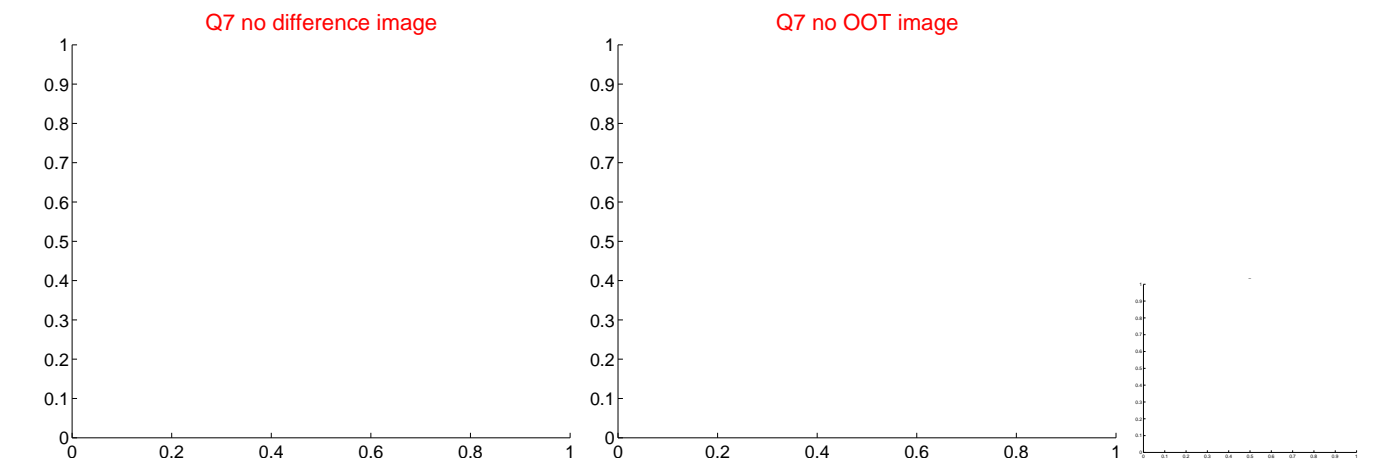
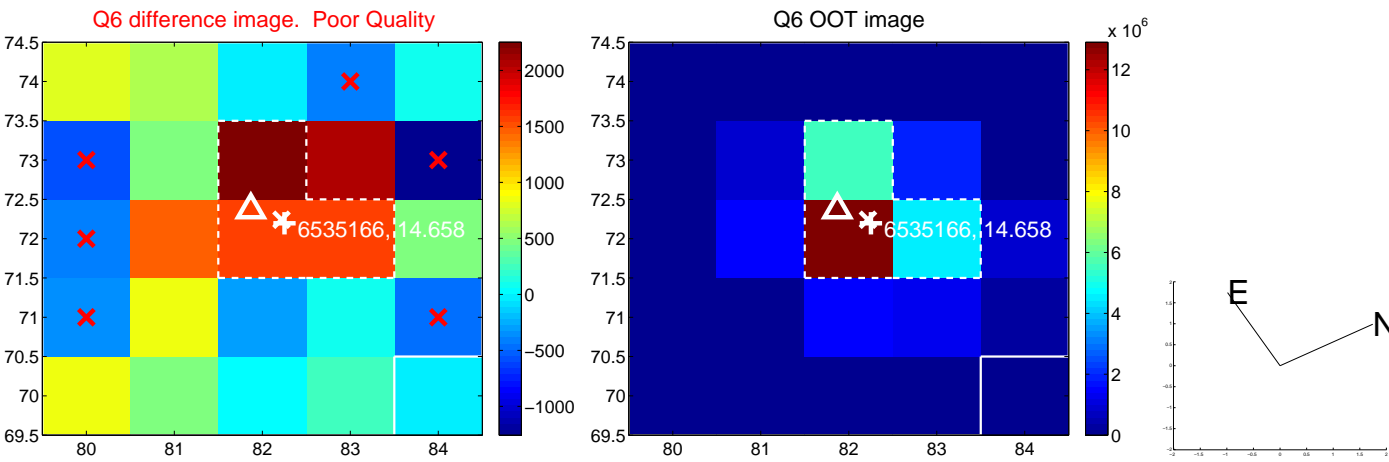
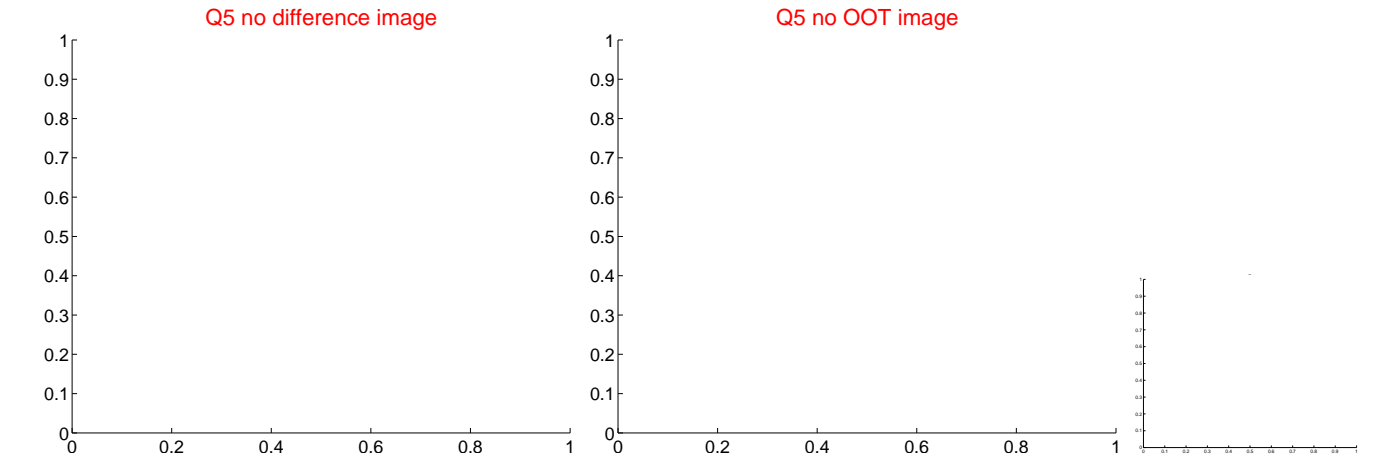


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

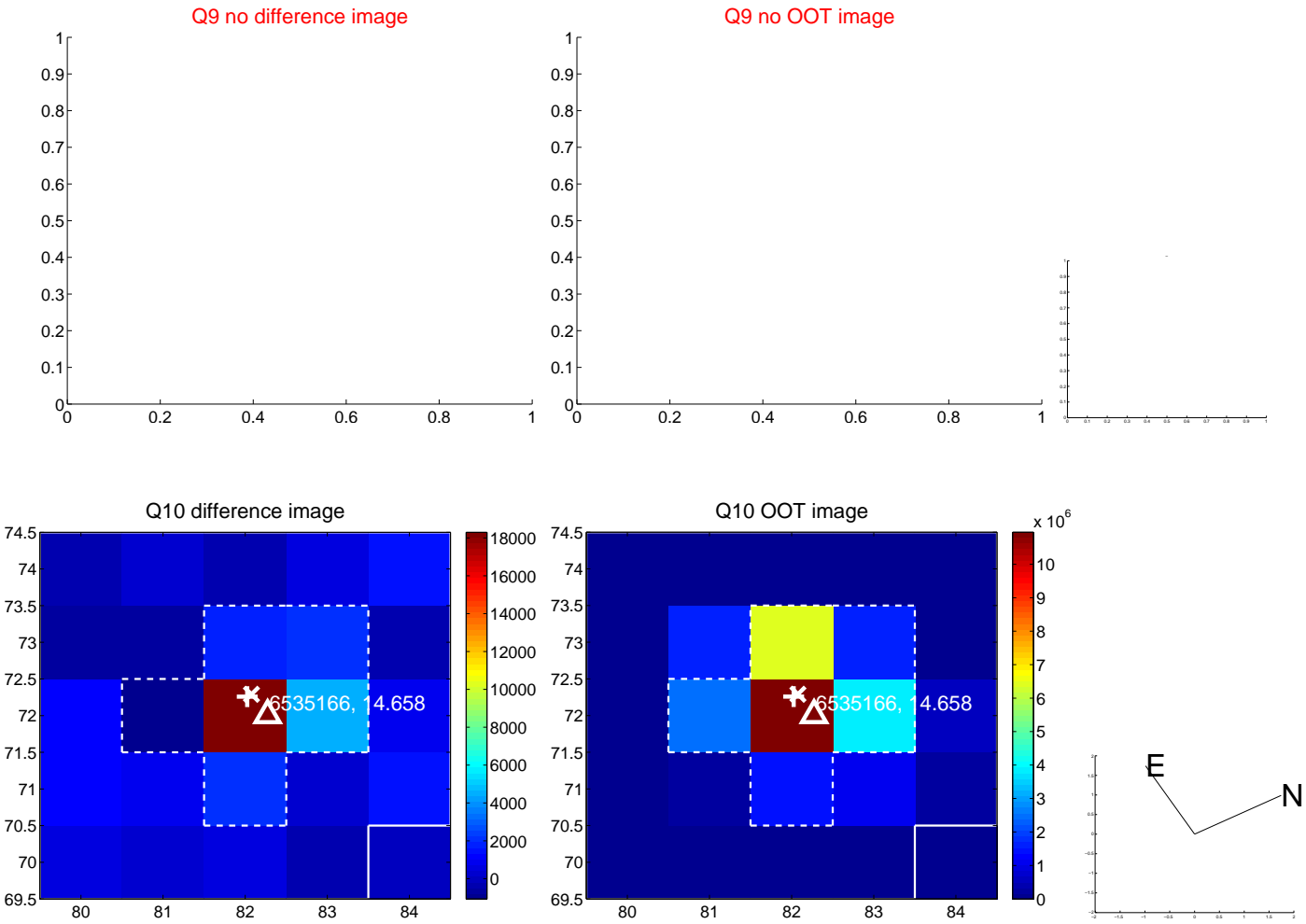
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



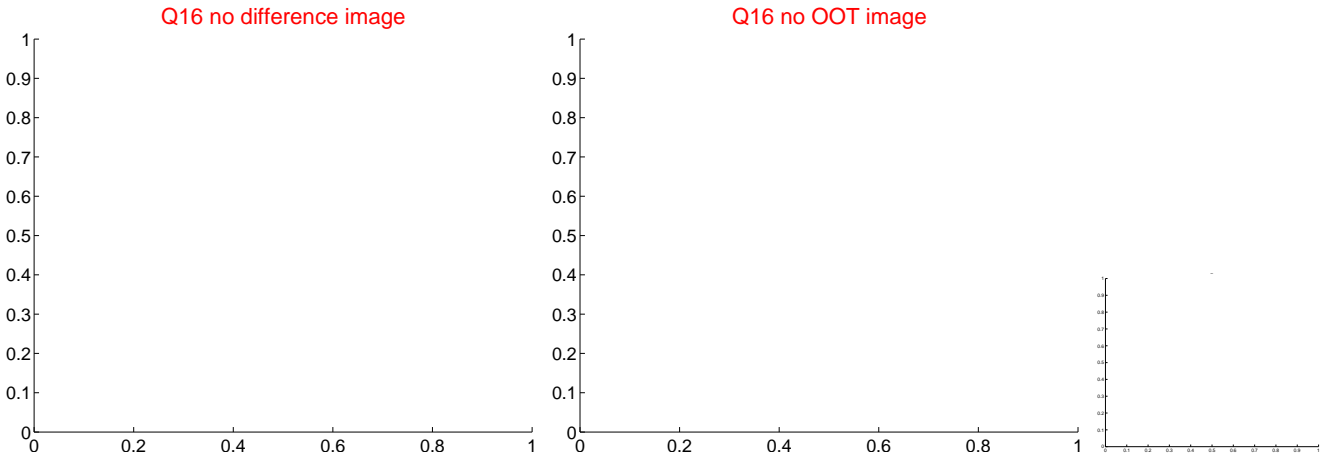
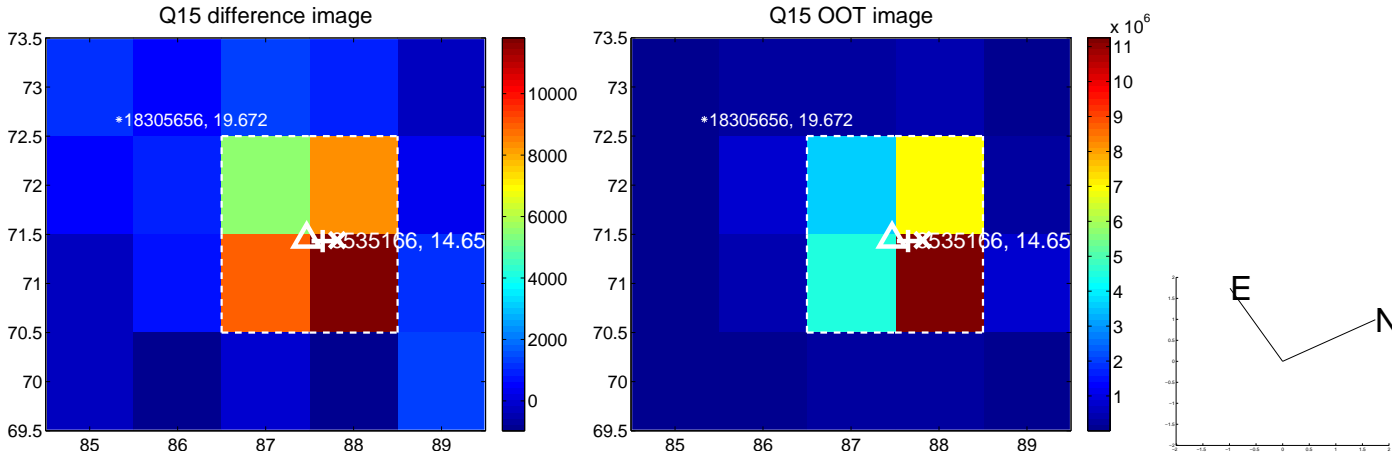
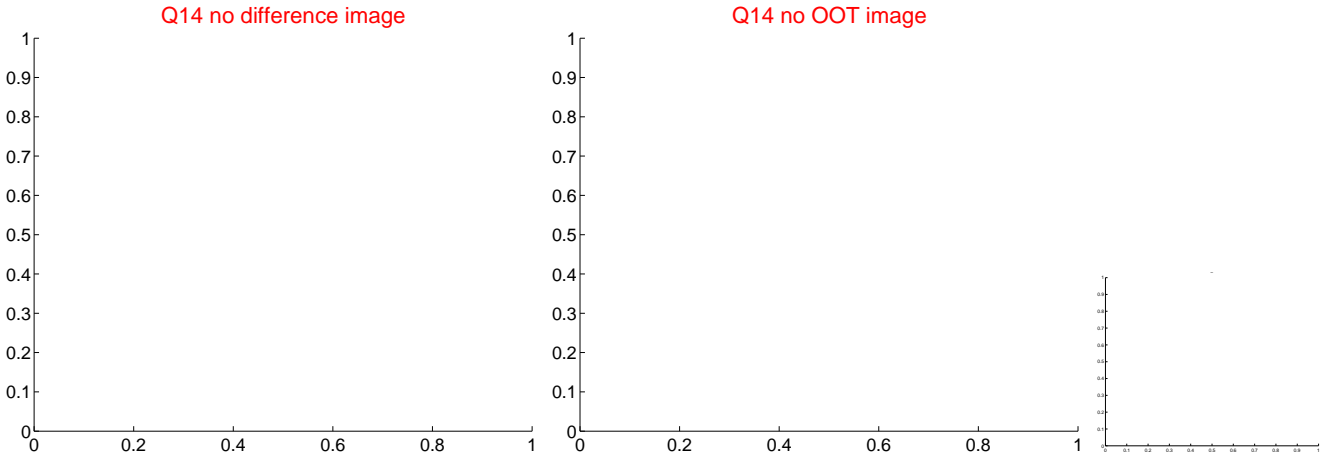
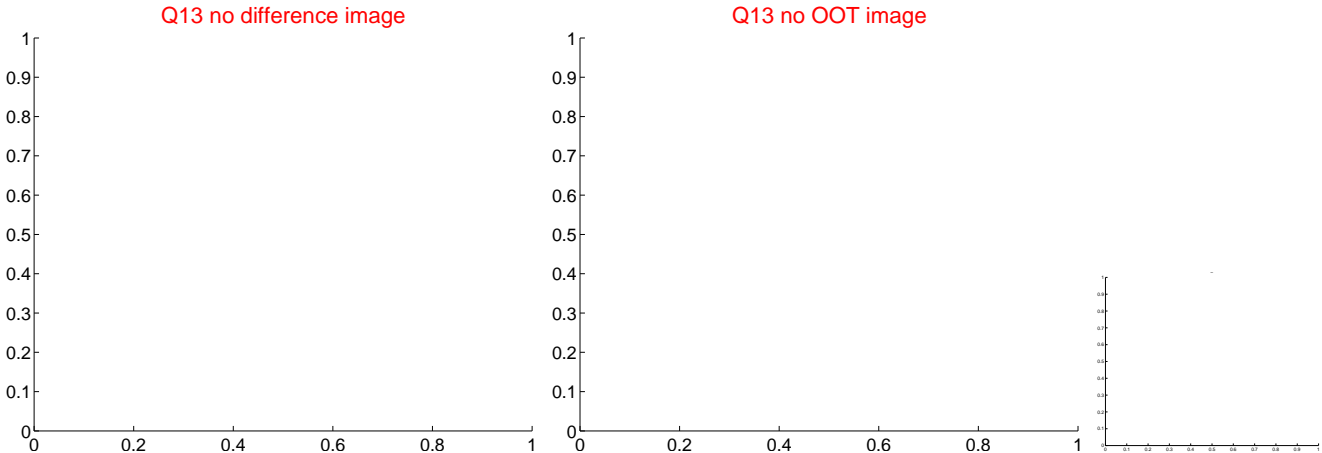
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



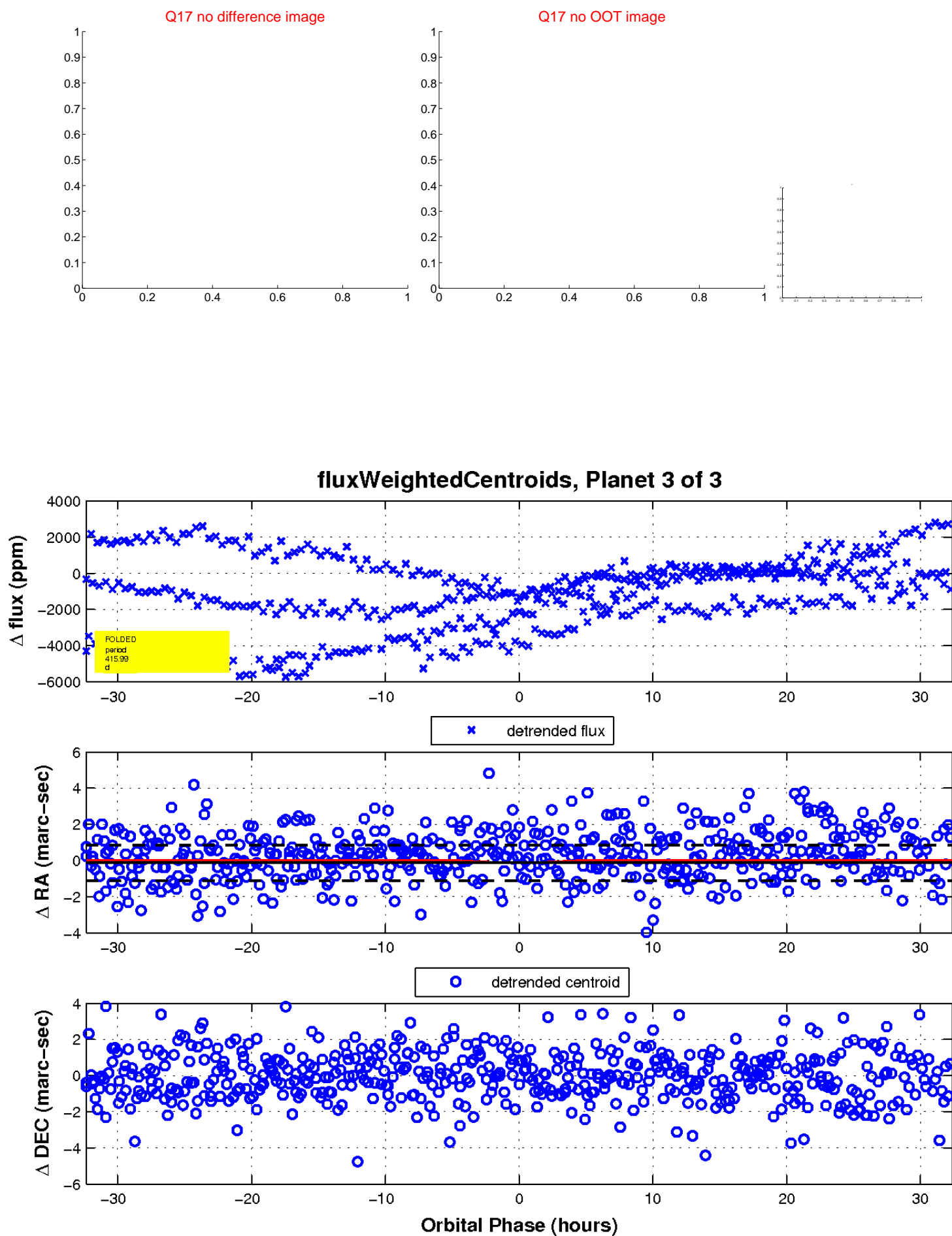
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

