

KIC 005879574

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})
005879574-01	OBS	No	0.846726	132.151481	15.7	1.378	8.3	2.3	0.88	5767	0.41	2545.00
005879574-02	OBS	No	0.846537	132.183489	33.6	5.398	8.3	5.9	0.88	5767	0.53	2545.76
005879574-04	OBS	No	85.460142	153.290330	484.4	11.724	14.9	3.9	0.88	5767	2.03	5.42
005879574-06	OBS	No	52.791700	147.940220	753.7	11.647	10.4	6.7	0.88	5767	2.97	10.29
005879574-07	OBS	No	223.577114	322.892776	1710.2	14.338	9.7	6.3	0.88	5767	6.98	1.50

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005879574-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET
005879574-02	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_RESOLVED_OFFSET
005879574-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005879574-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET
005879574-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

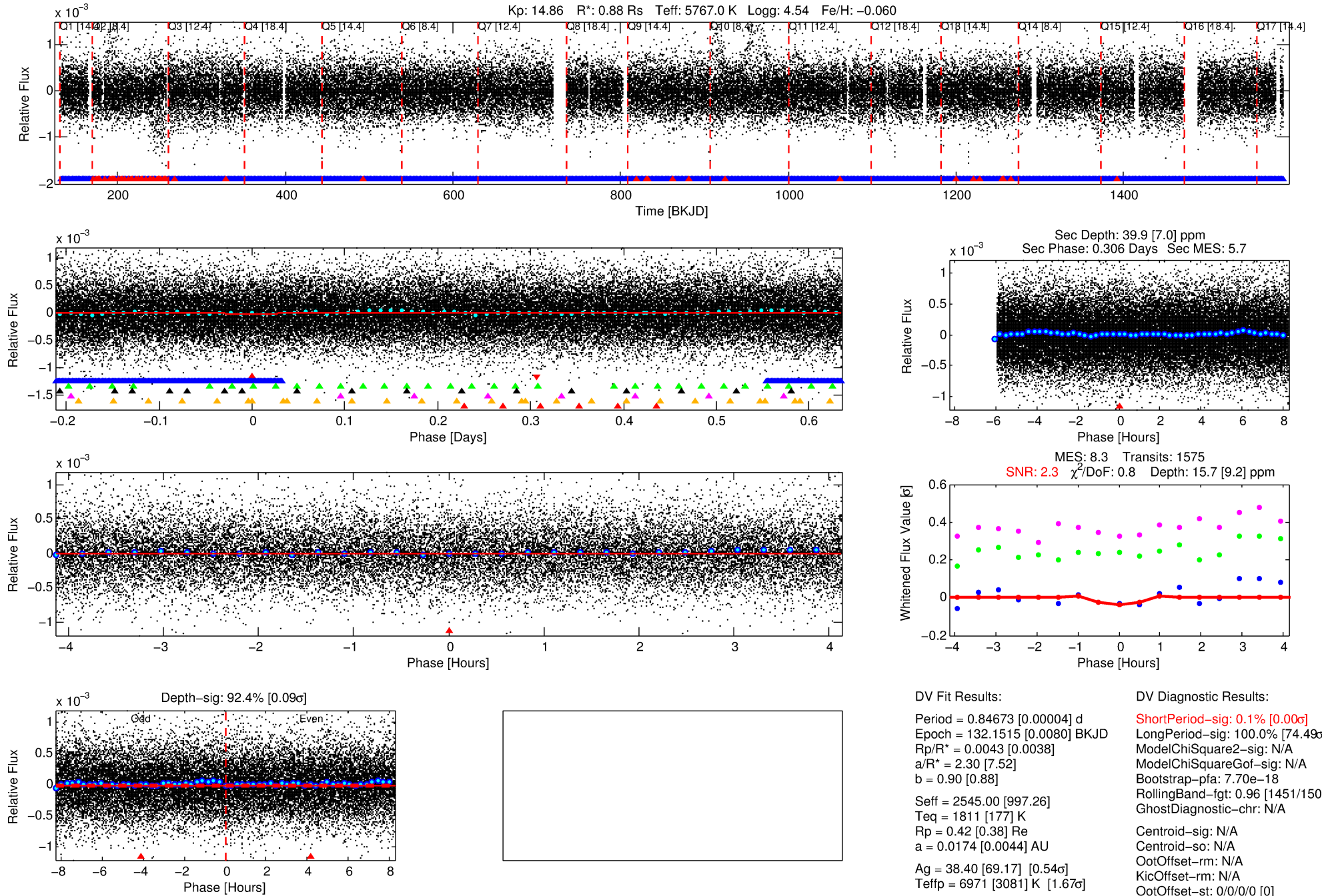
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005879574-01

No Significant Match Found

DV One-Page Summary

KIC: 5879574 Candidate: 1 of 7 Period: 0.847 d



DV Fit Results:

Period = 0.84673 [0.00004] d
Epoch = 132.1515 [0.0080] BKJD
Rp/R* = 0.0043 [0.0038]
a/R* = 2.30 [7.52]
b = 0.90 [0.88]
Seff = 2545.00 [997.26]
Teq = 1811 [177] K
Rp = 0.42 [0.38] Re
a = 0.0174 [0.0044] AU
Ag = 38.40 [69.17] [0.54 σ]
Teffp = 6971 [3081] K [1.67 σ]

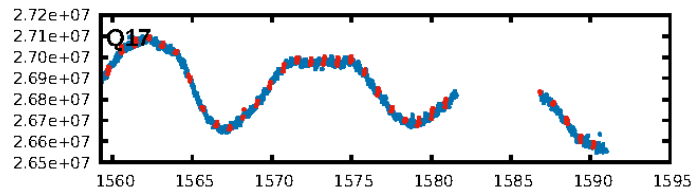
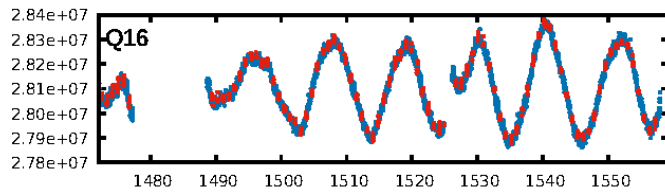
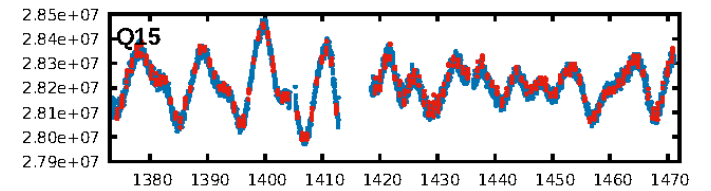
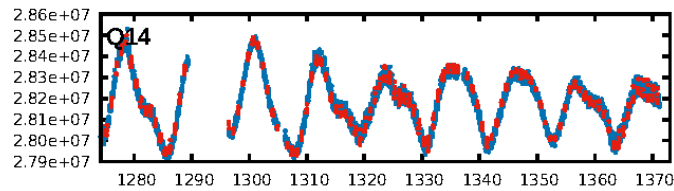
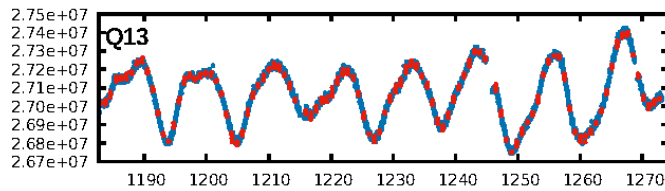
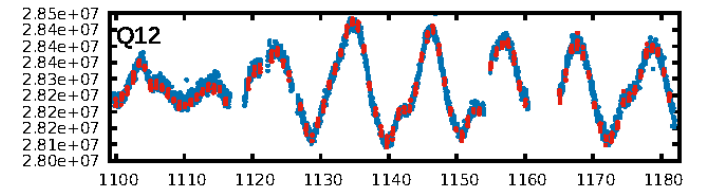
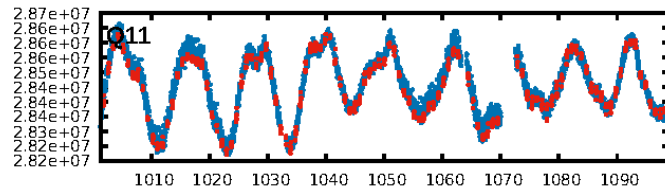
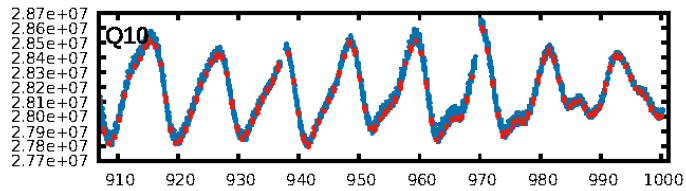
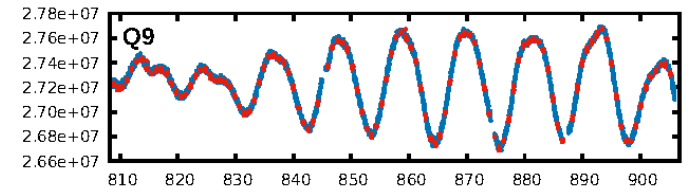
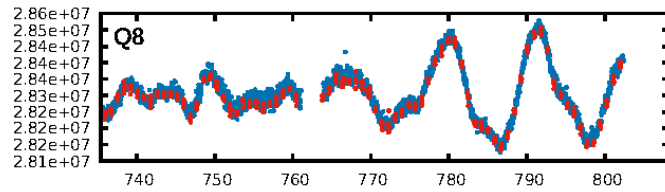
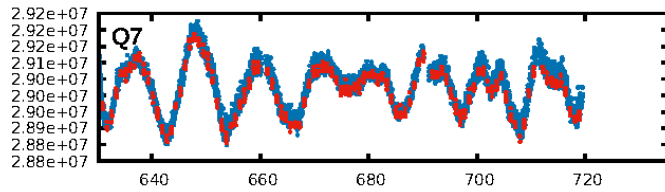
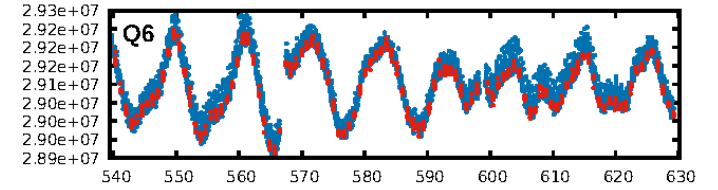
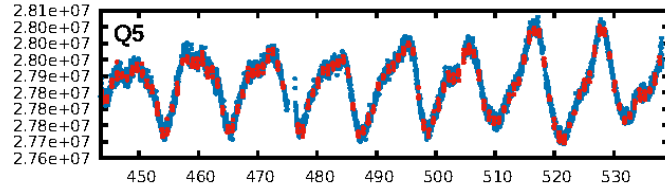
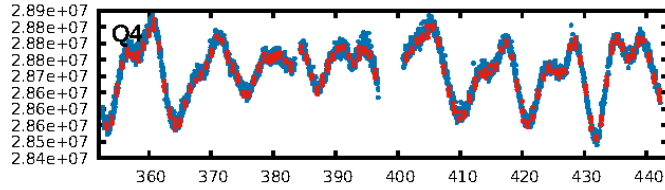
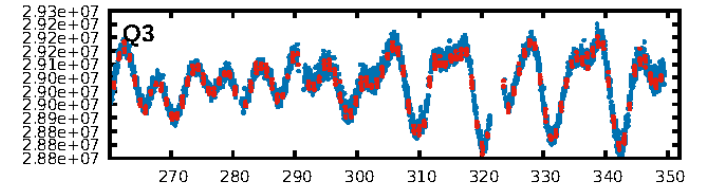
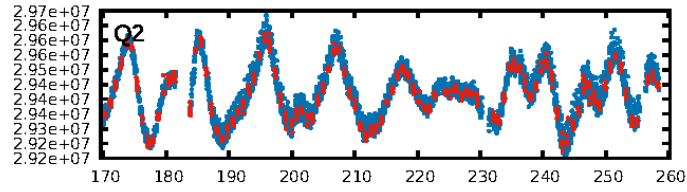
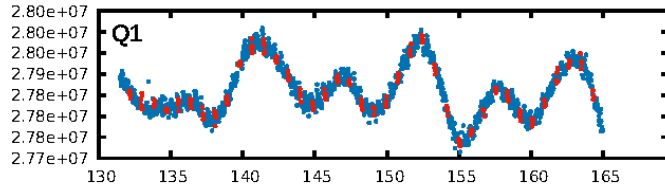
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00 σ]
LongPeriod-sig: 100.0% [74.49 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 7.70e-18
RollingBand-fgt: 0.96 [1451/1505]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 0.00 [0/17]

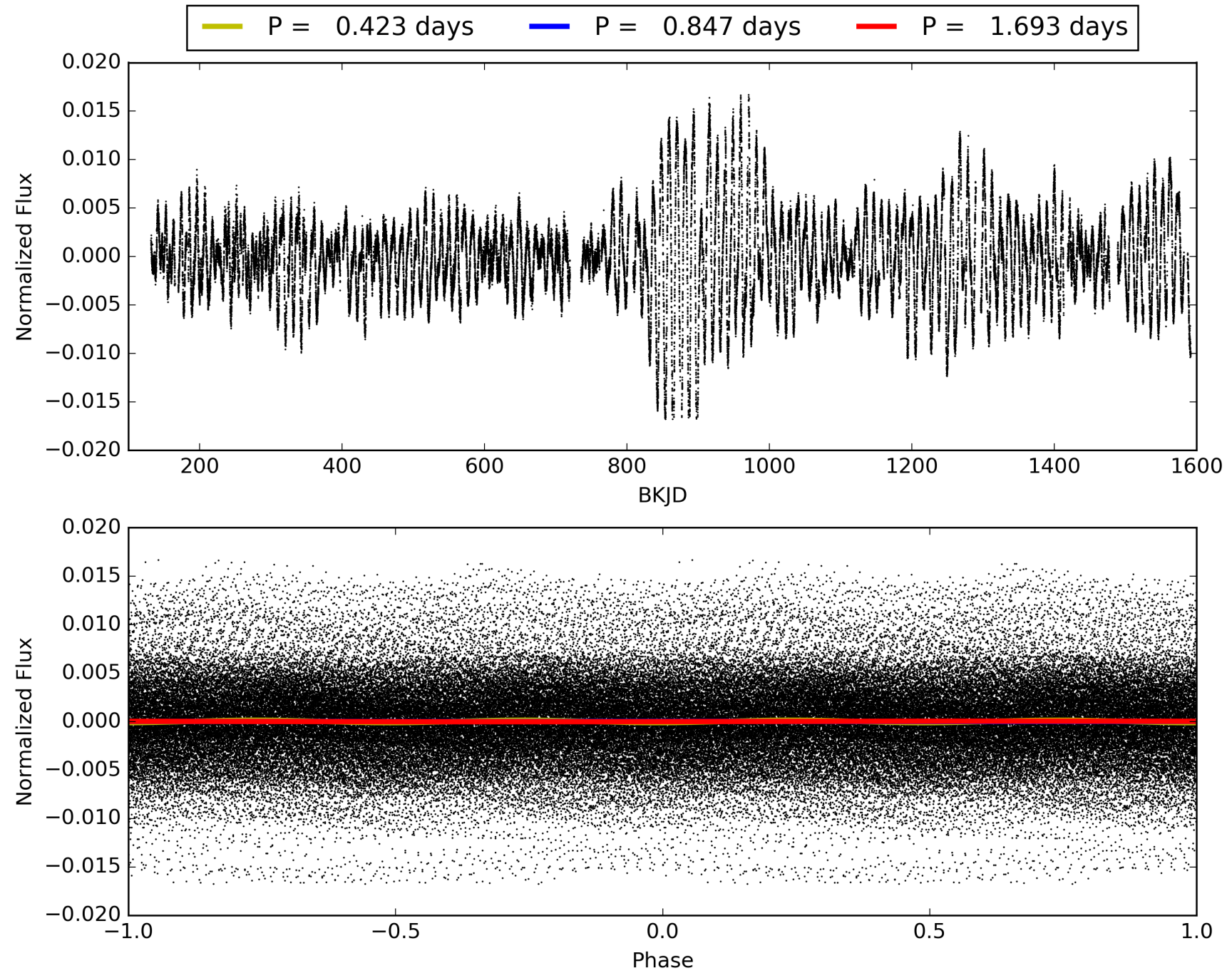
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005879574-01, PDC Light Curves

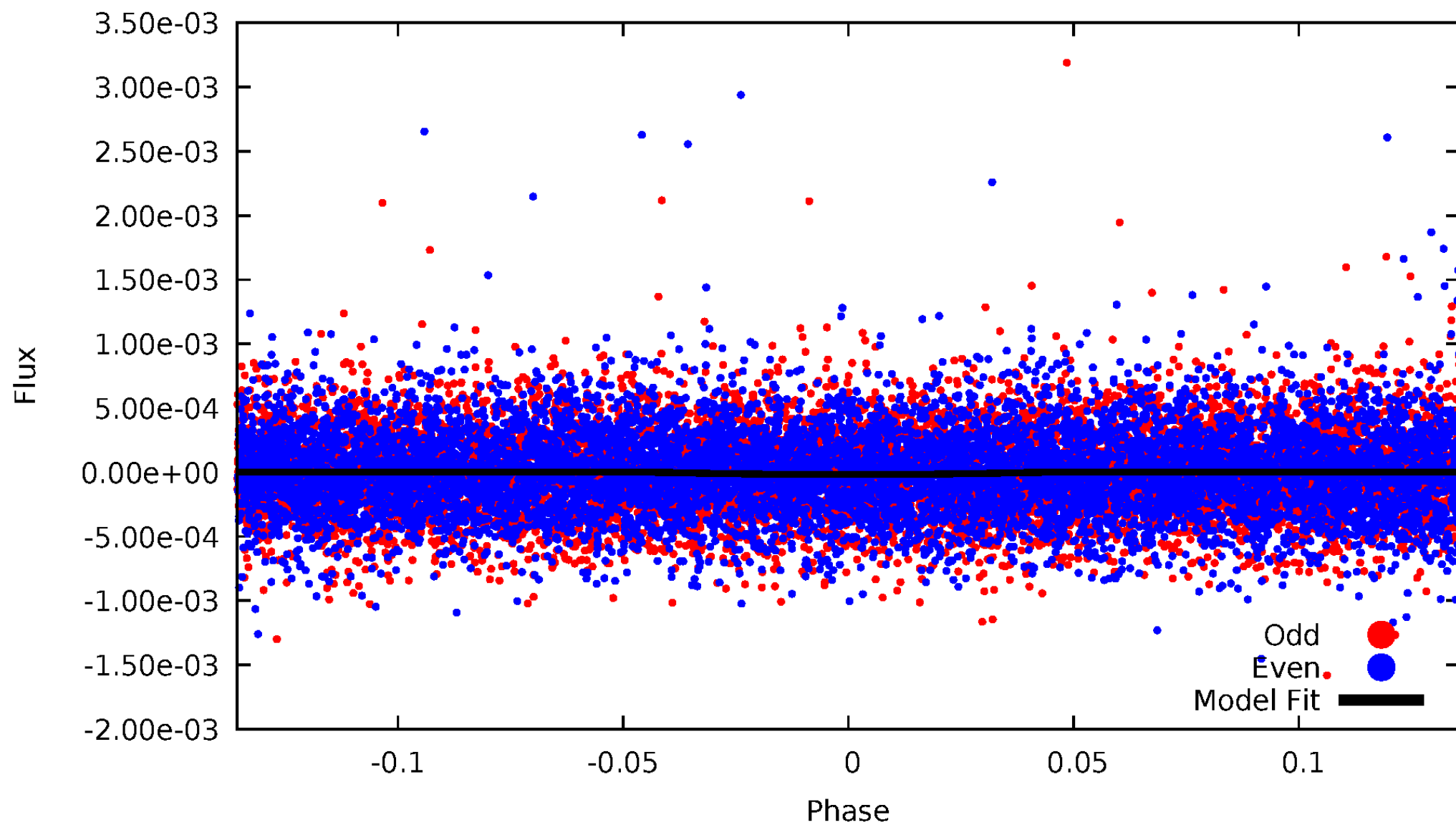


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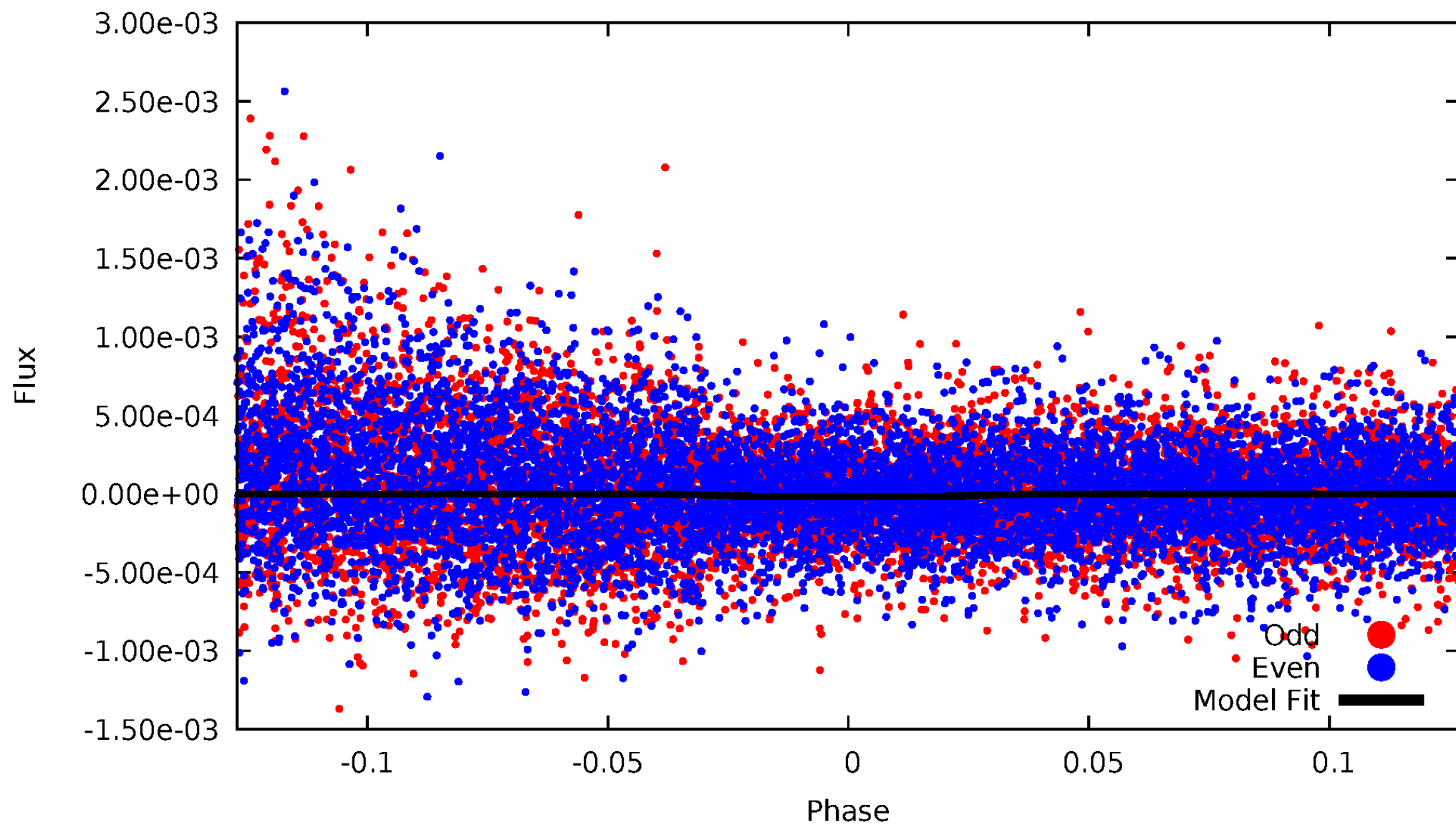
DV Odd/Even

TCE 005879574-01



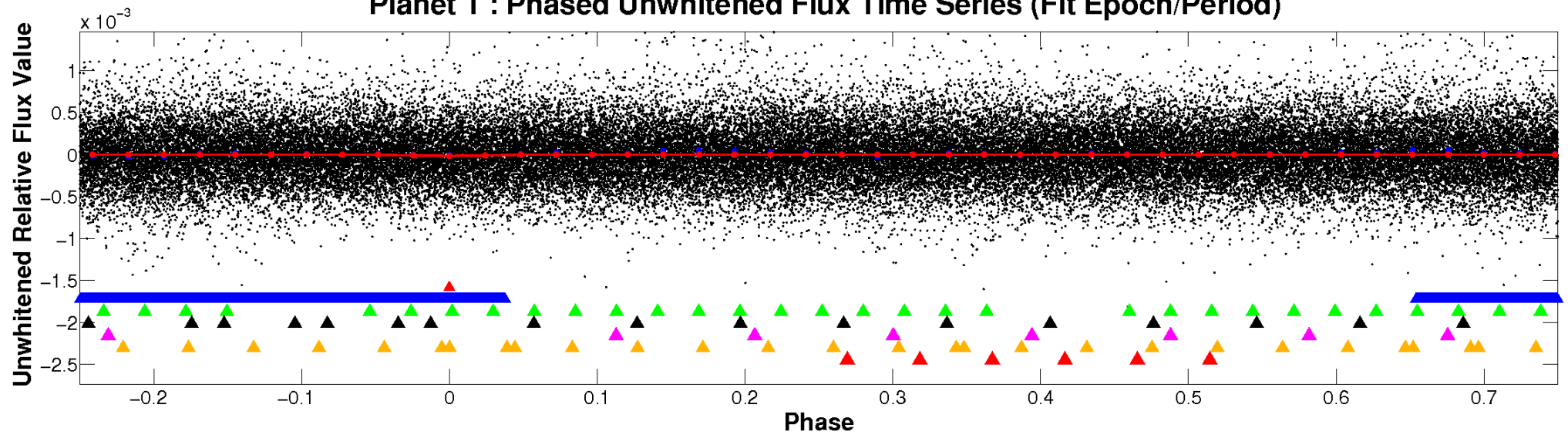
ALT Odd/Even

TCE 005879574-01

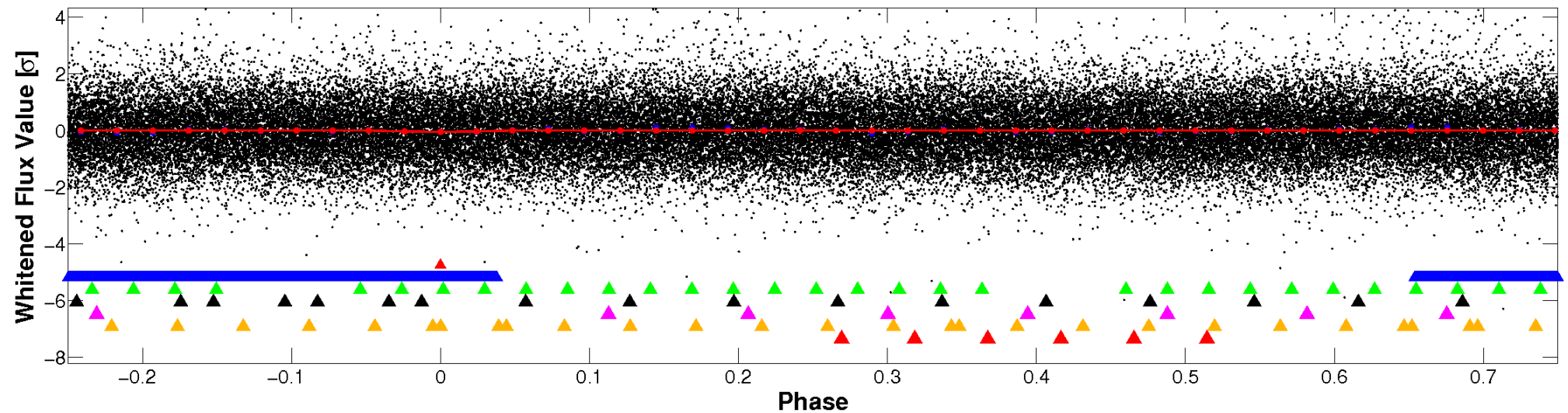


Non-Whitened Vs. Whitened Light Curve

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

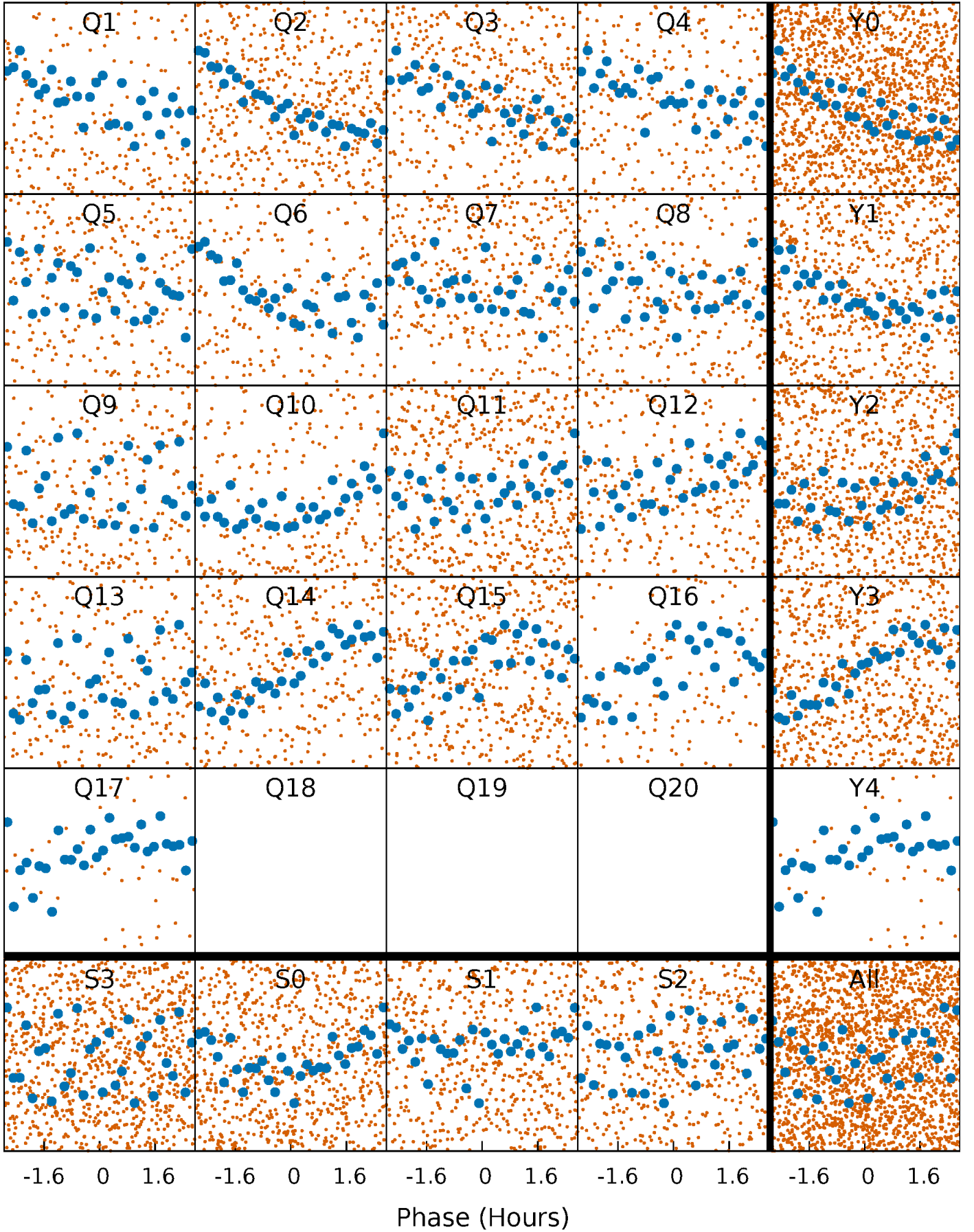


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



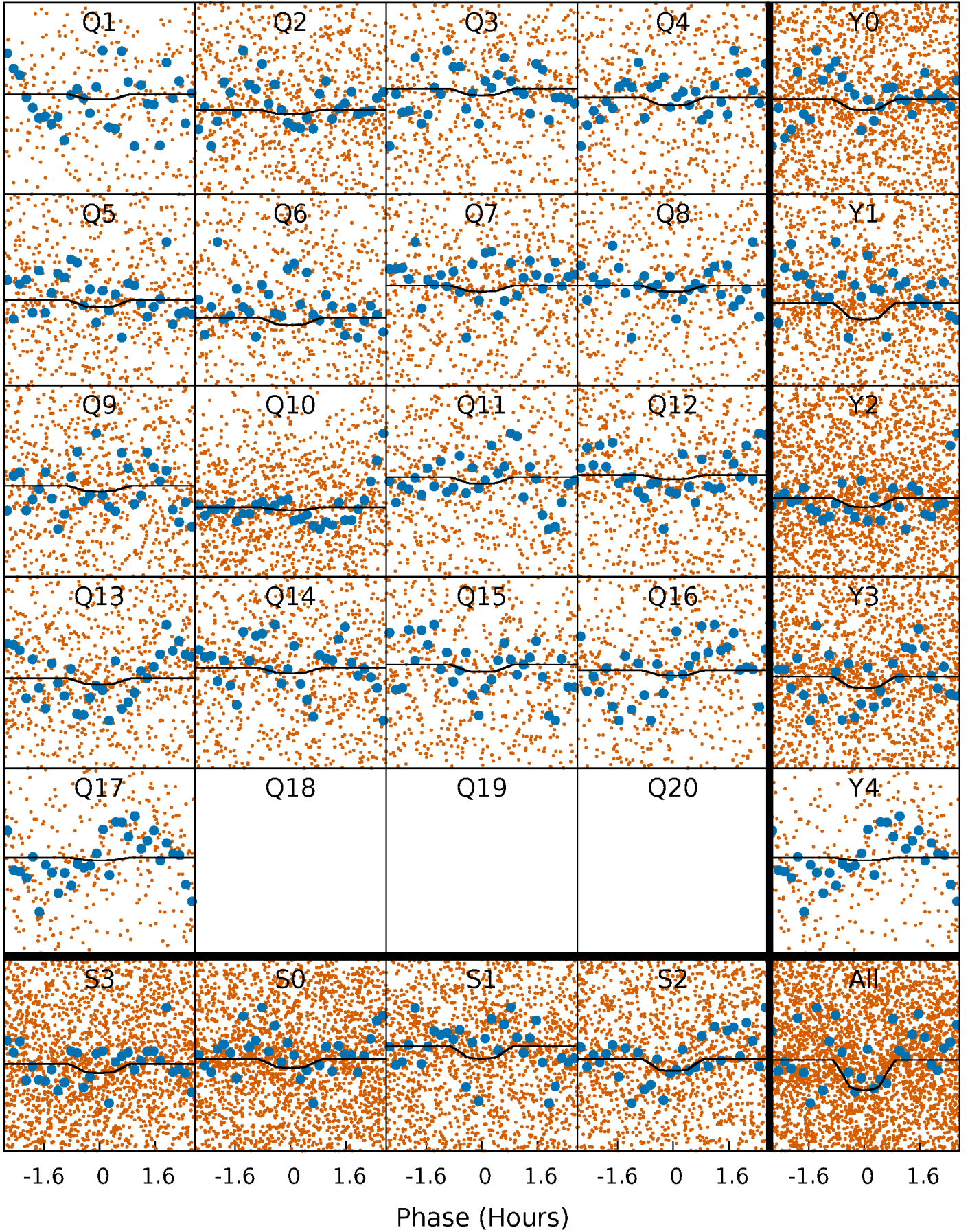
PDC Quarter-Phased Transit Curves

TCE 005879574-01 P= 0.846726 Days $T_0=132.151481$ (BKJD)



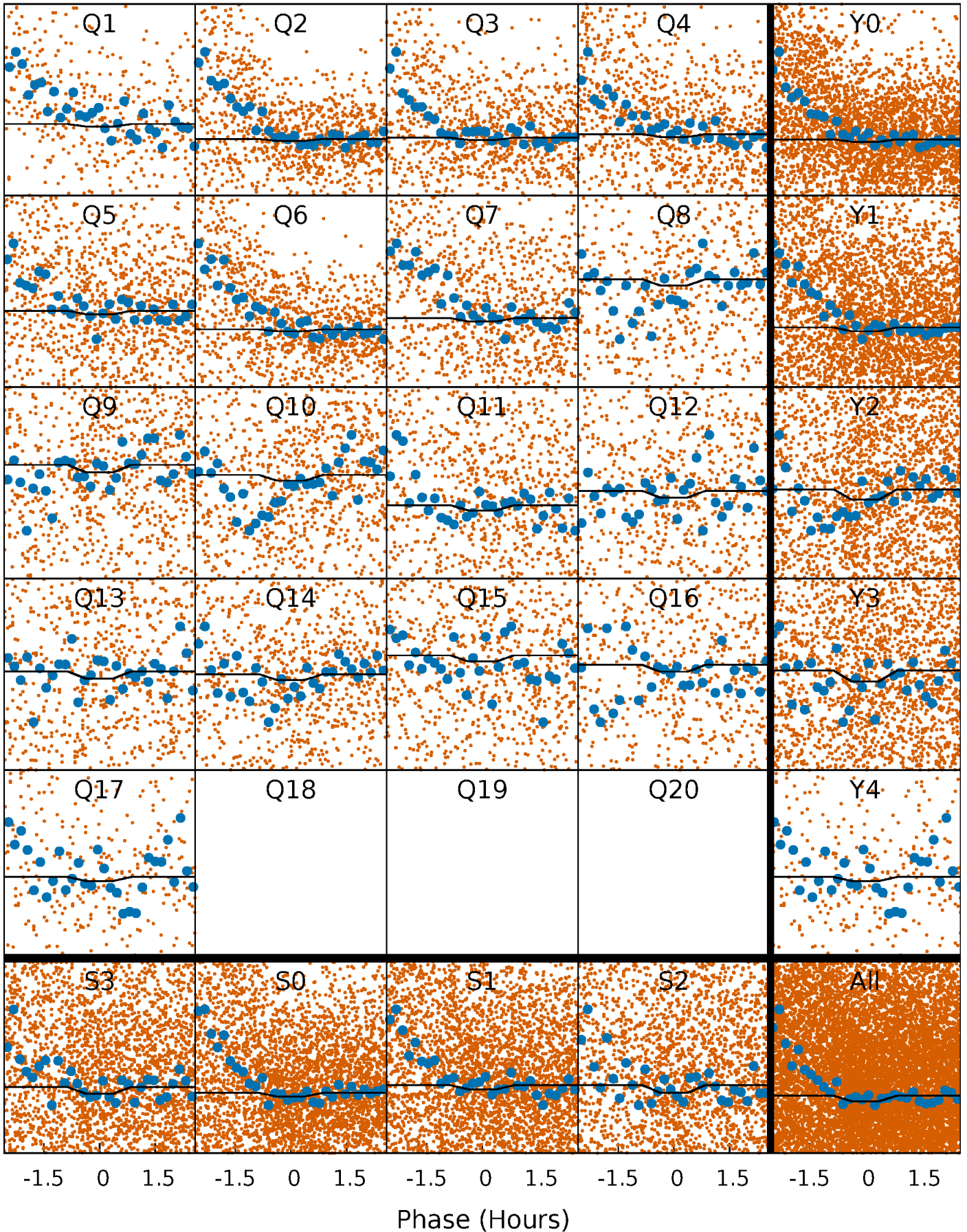
DV Quarter-Phased Transit Curves

TCE 005879574-01 P= 0.846726 Days $T_0=132.151481$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

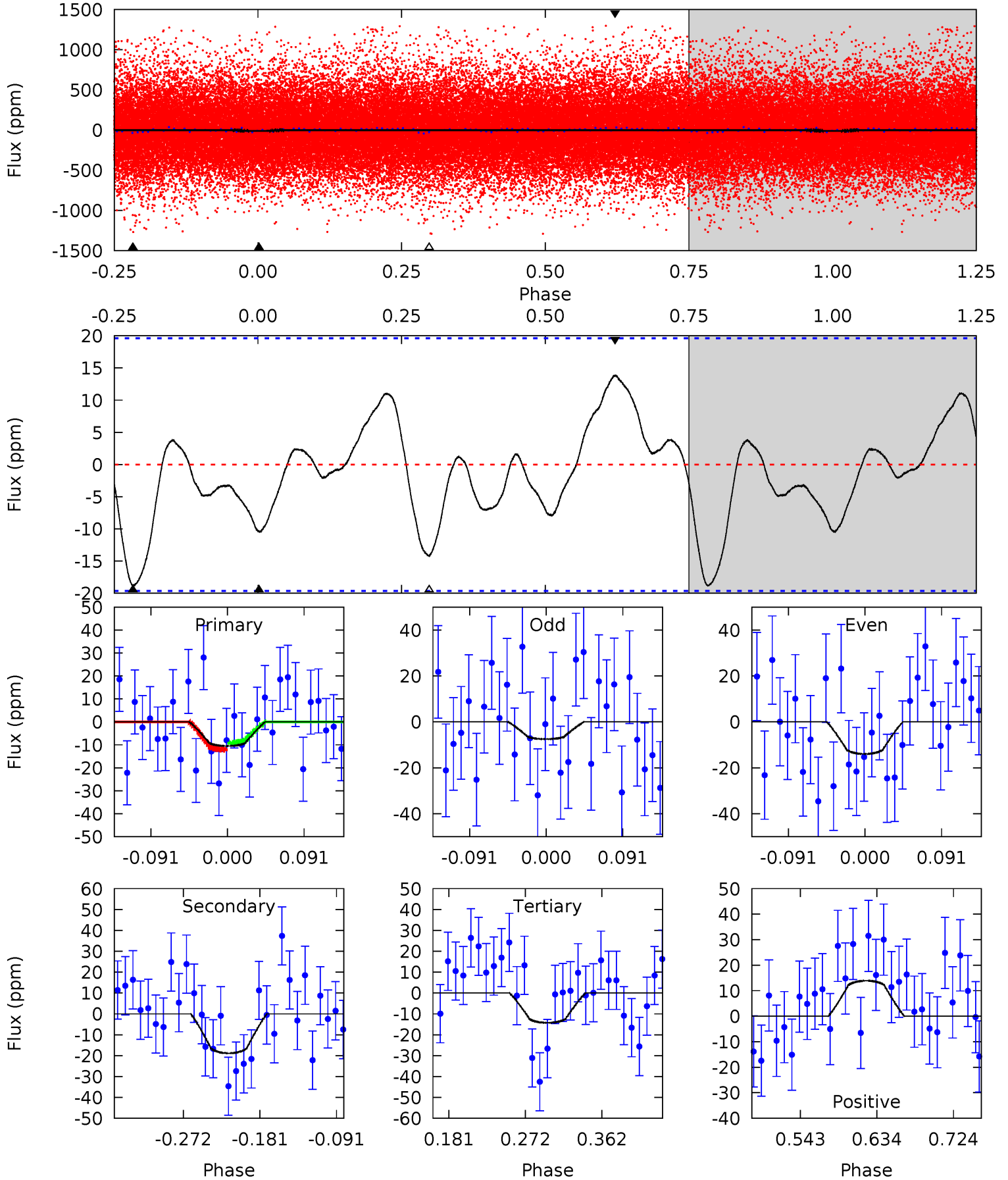
TCE 005879574-01 P= 0.846574 Days $T_0=132.157184$ (BKJD)



DV Model-Shift Uniqueness Test

005879574-01, P = 0.846726 Days, E = 131.304755 Days

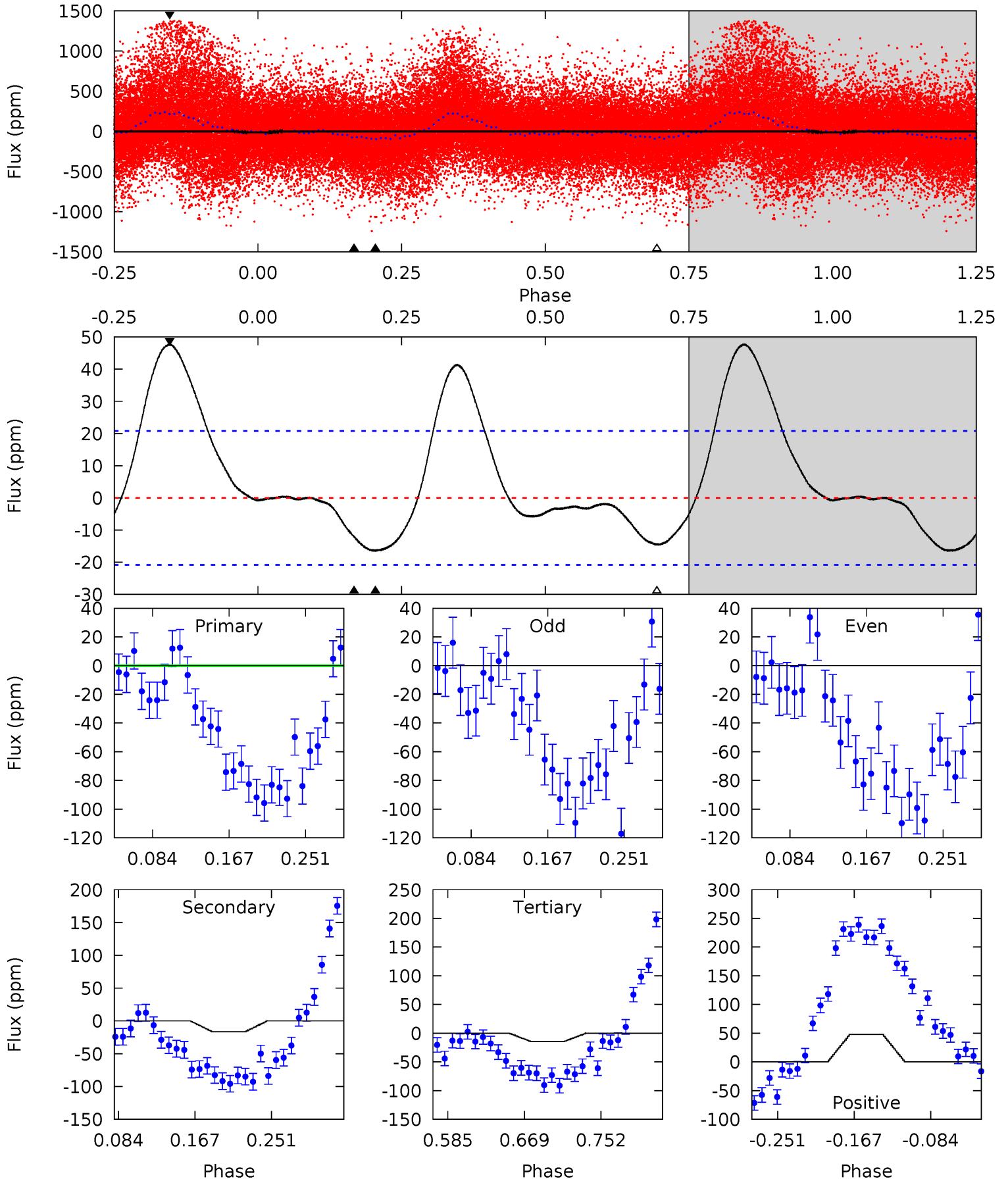
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.46	4.40	3.33	3.25	4.59	1.69	1.53	-0.88	-0.79	1.07	1.15	0.76	0.96	0.42	0.33



Alt Model-Shift Uniqueness Test

005879574-01, P = 0.846574 Days, E = 131.310610 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.68	3.63	3.21	10.6	4.60	1.73	3.93	-0.54	-7.87	0.41	-6.92	0.54	0.69	0.74	0.19



Stellar Parameters For KIC 005879574

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5767^{+156}_{-190}	$4.538^{+0.036}_{-0.204}$	$-0.060^{+0.250}_{-0.300}$	$0.881^{+0.258}_{-0.086}$	$0.979^{+0.102}_{-0.125}$	$2.017^{+0.400}_{-1.030}$
	+3%/-3%	+1%/-4%	+417%/-500%	+29%/-10%	+10%/-13%	+20%/-51%
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 005879574-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-19 ± 4	$0.51^{+0.36}_{-0.30}$	2602^{+187}_{-117}	5349^{+3677}_{-1091}	12^{+62}_{-8}
Alt.	-16 ± 5	$0.46^{+0.38}_{-0.28}$	2600^{+178}_{-122}	5375^{+3735}_{-1247}	12^{+67}_{-8}

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 005879574-01. Kepler magnitude: 14.86. Transit SNR 2.33

There are 0 quarters with good PRF difference image offsets

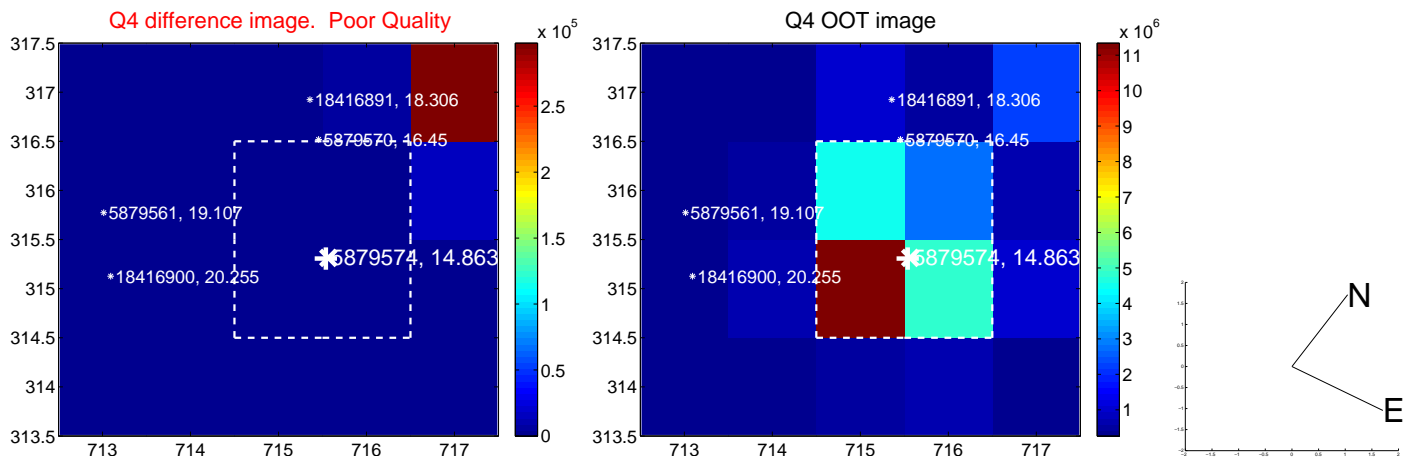
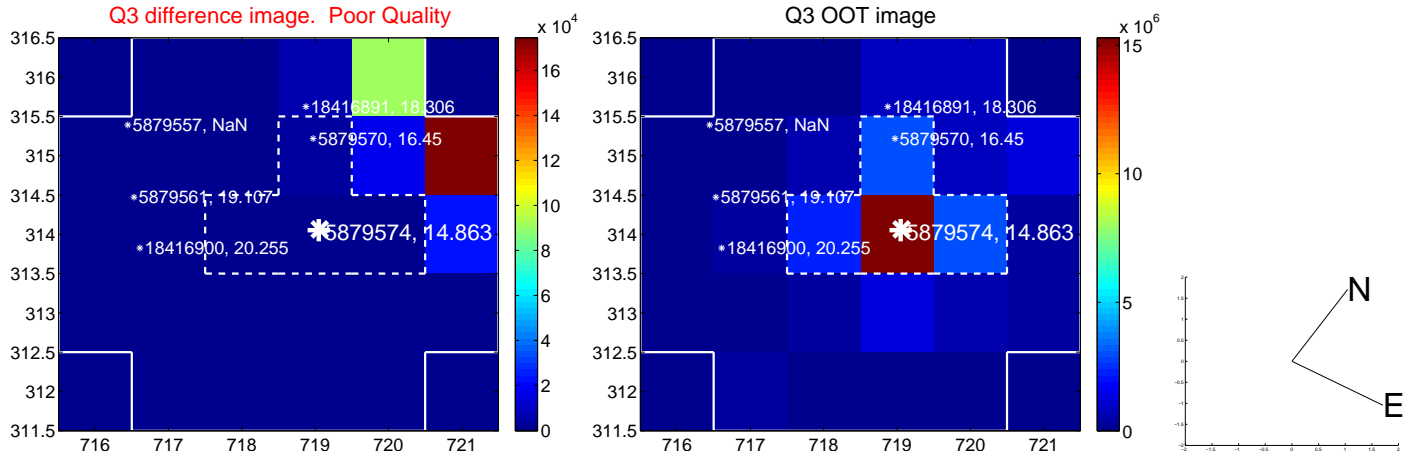
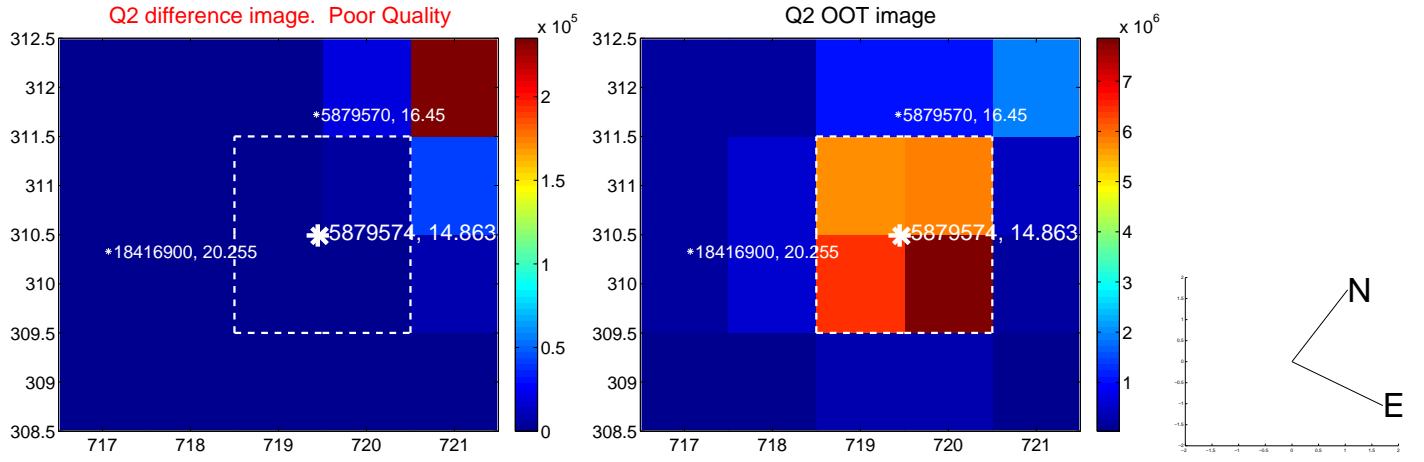
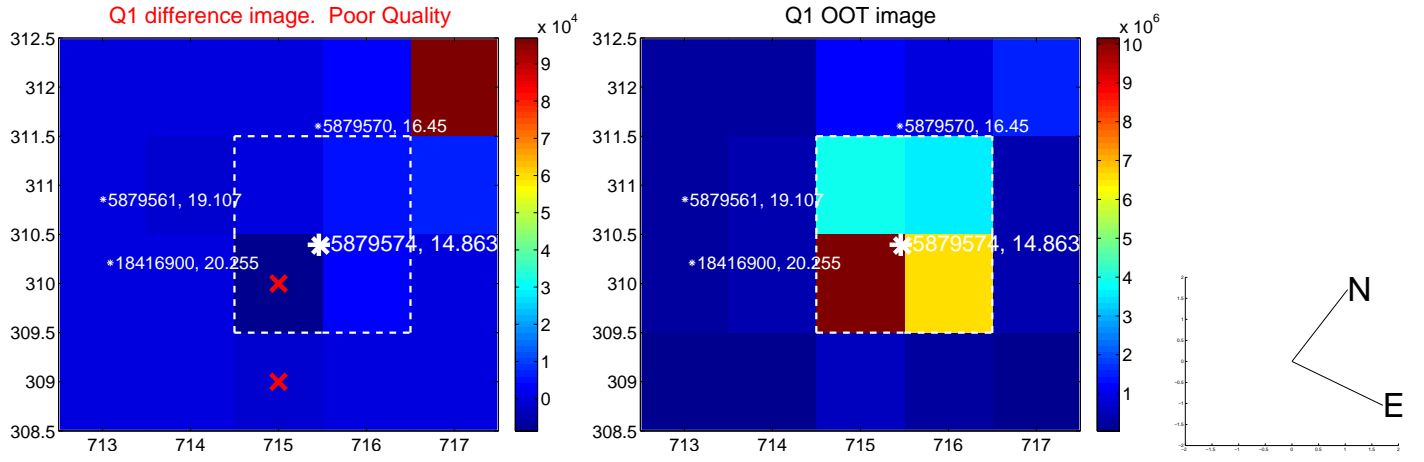
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	—	—	—	—

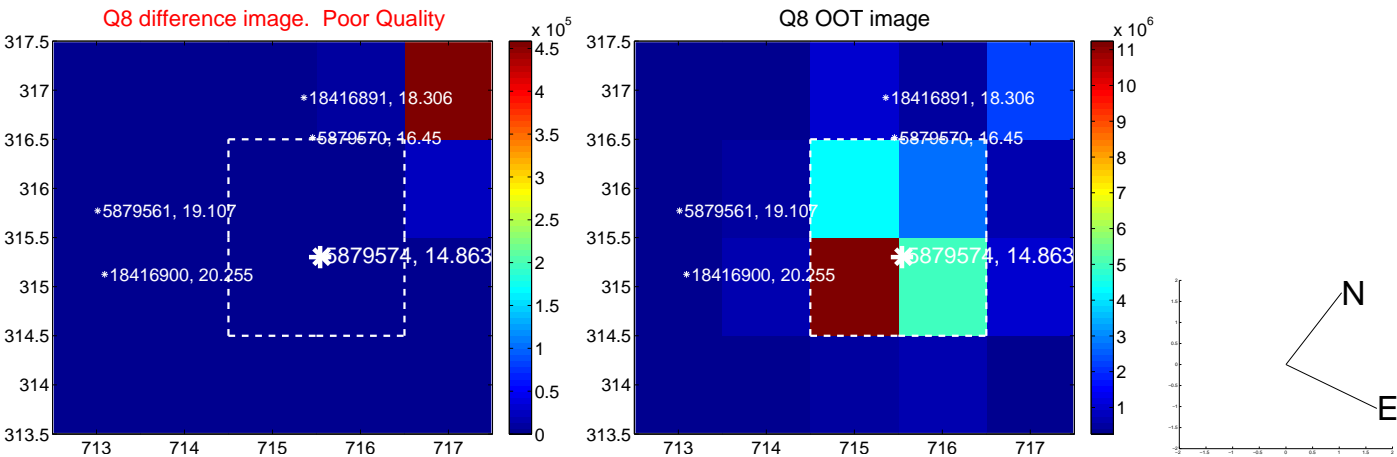
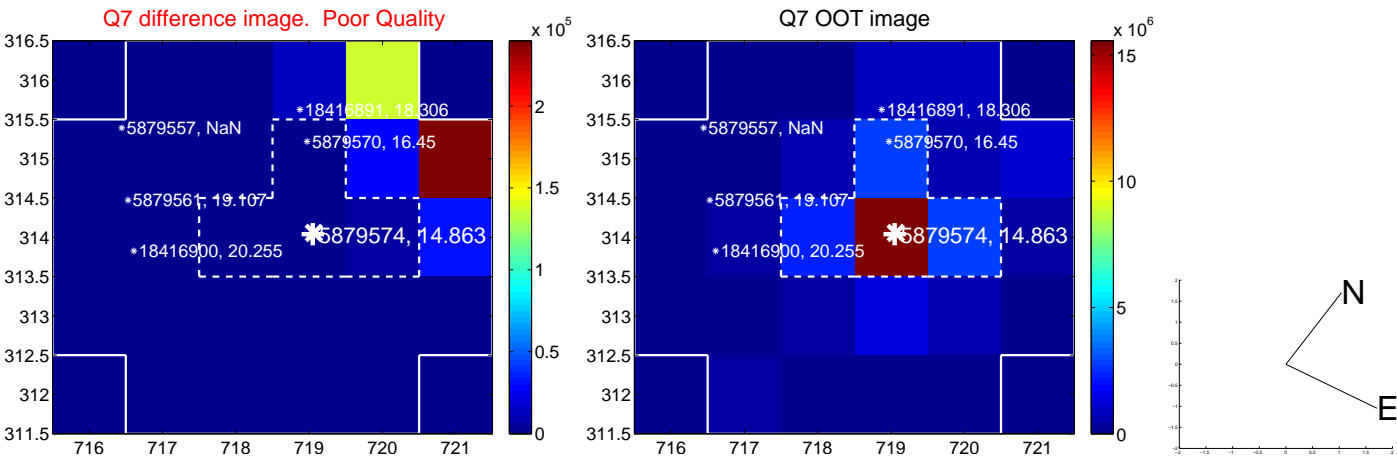
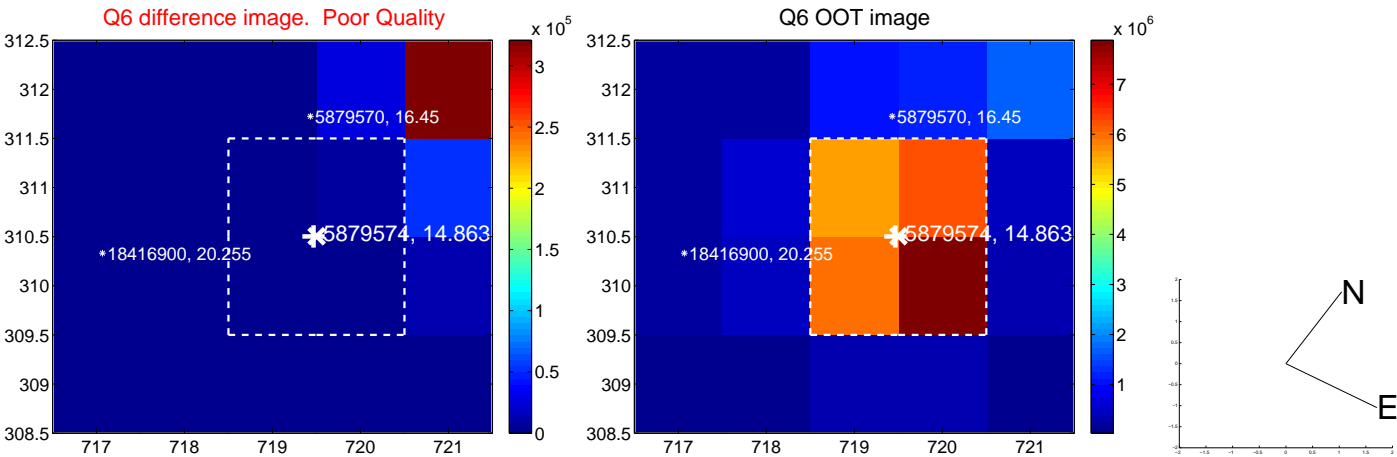
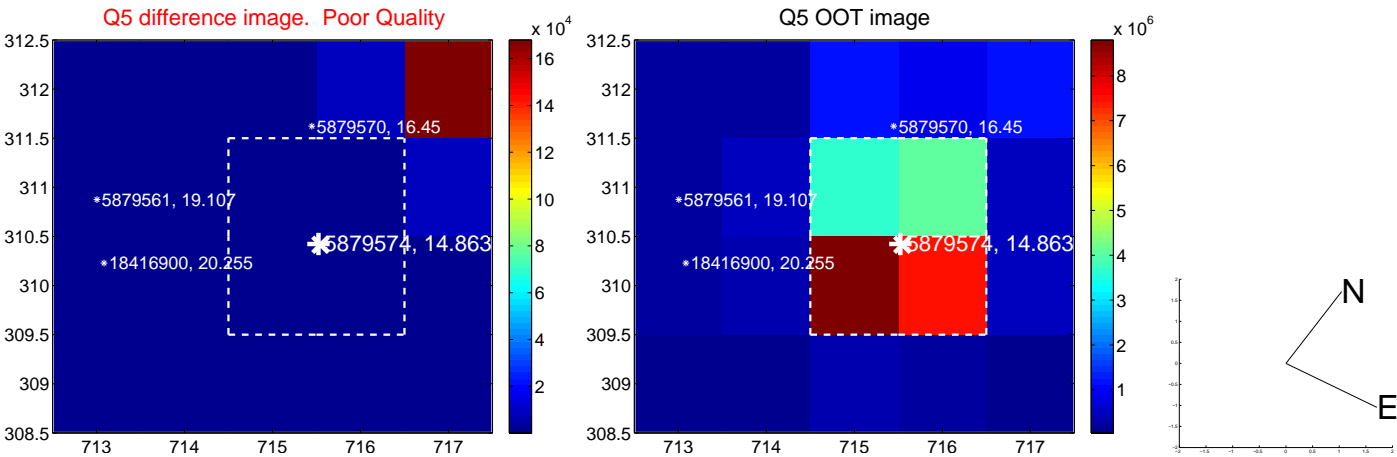


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

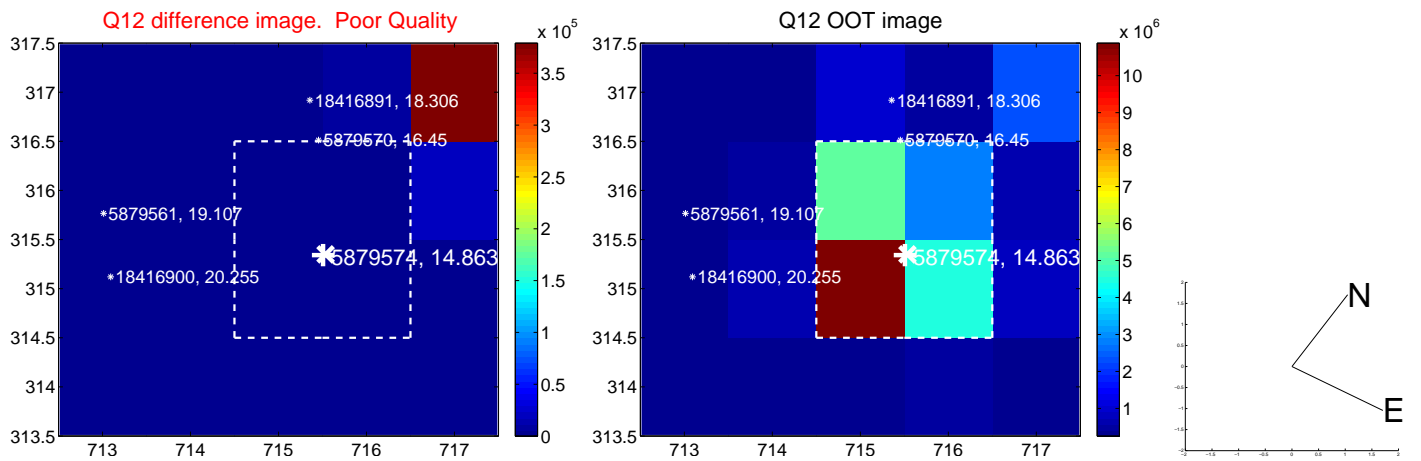
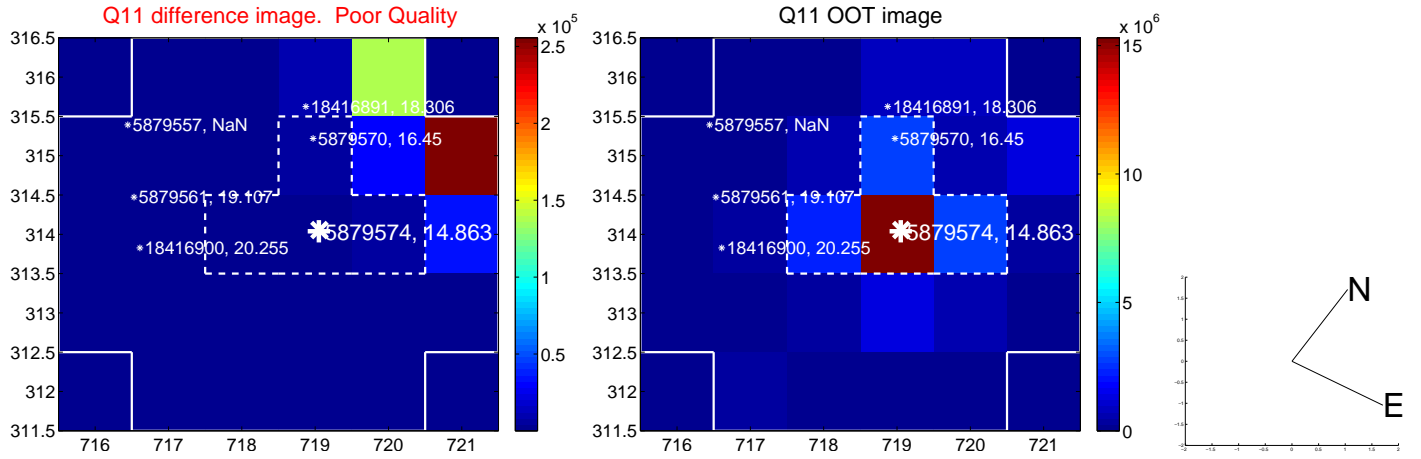
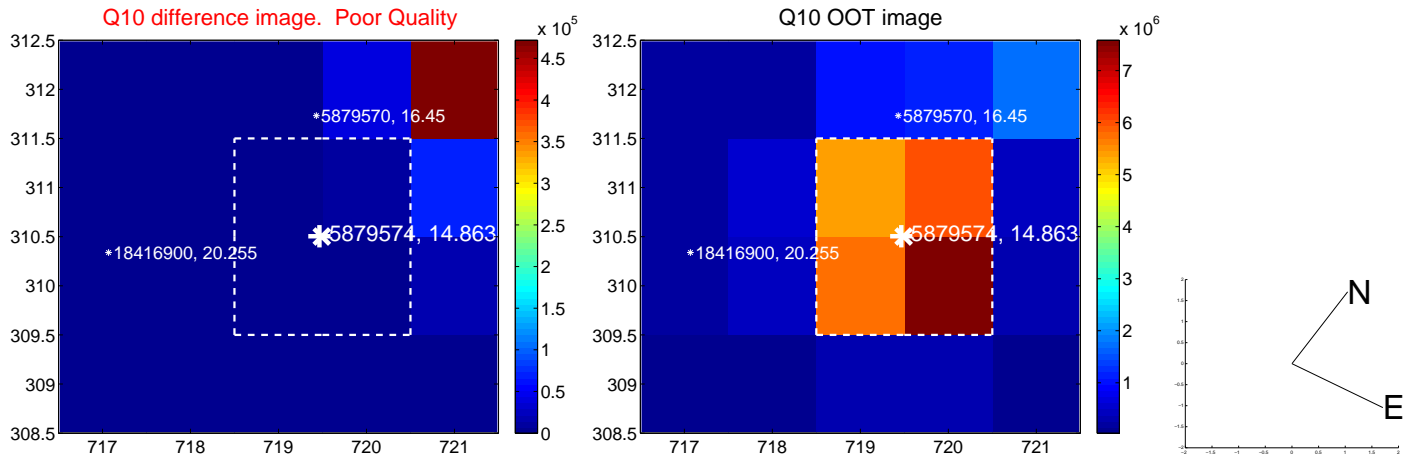
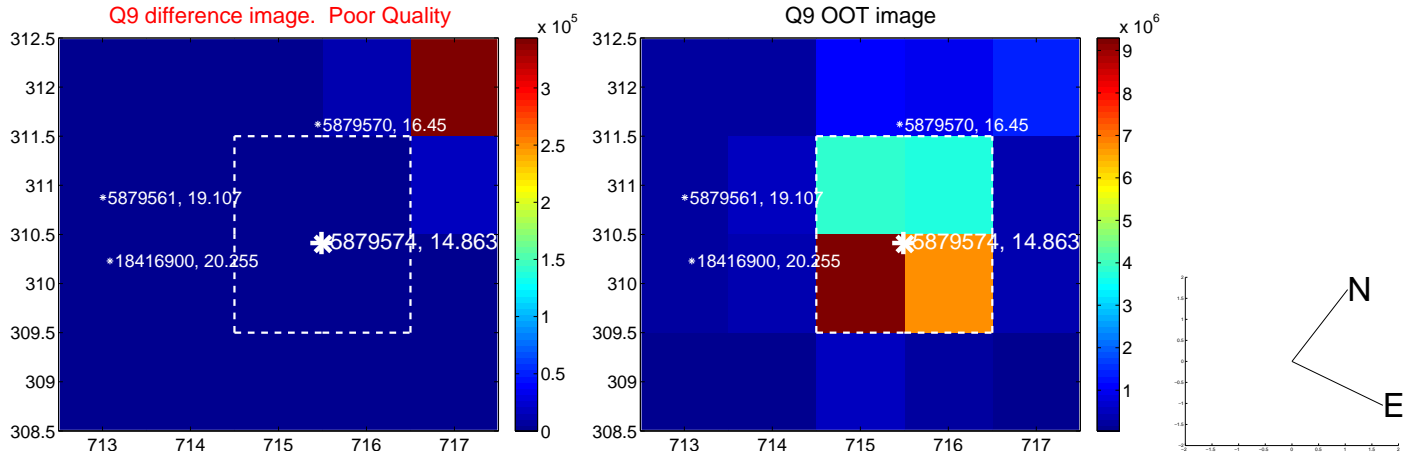
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



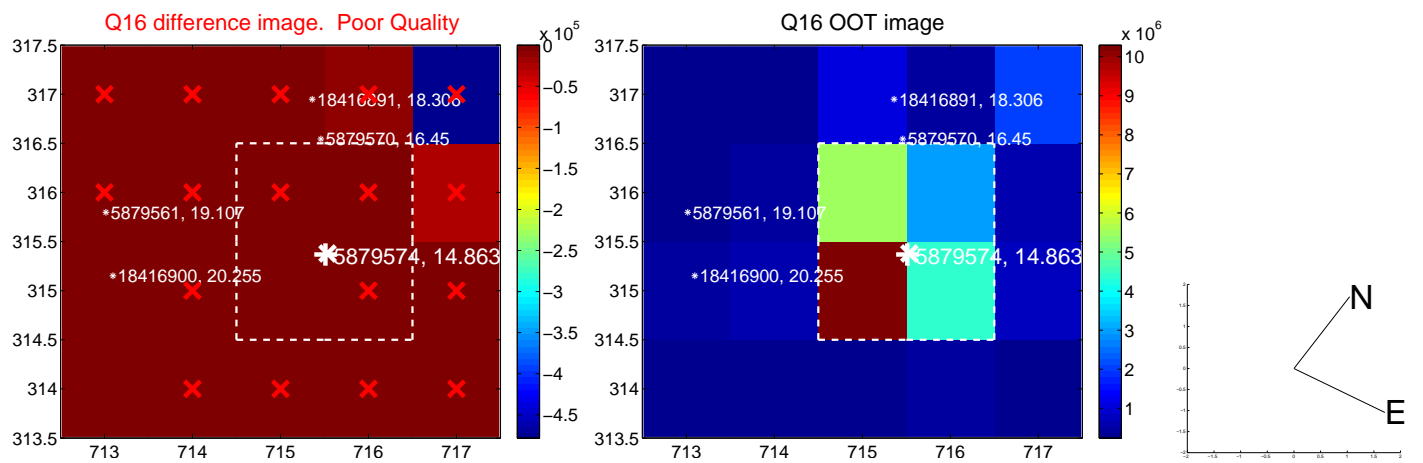
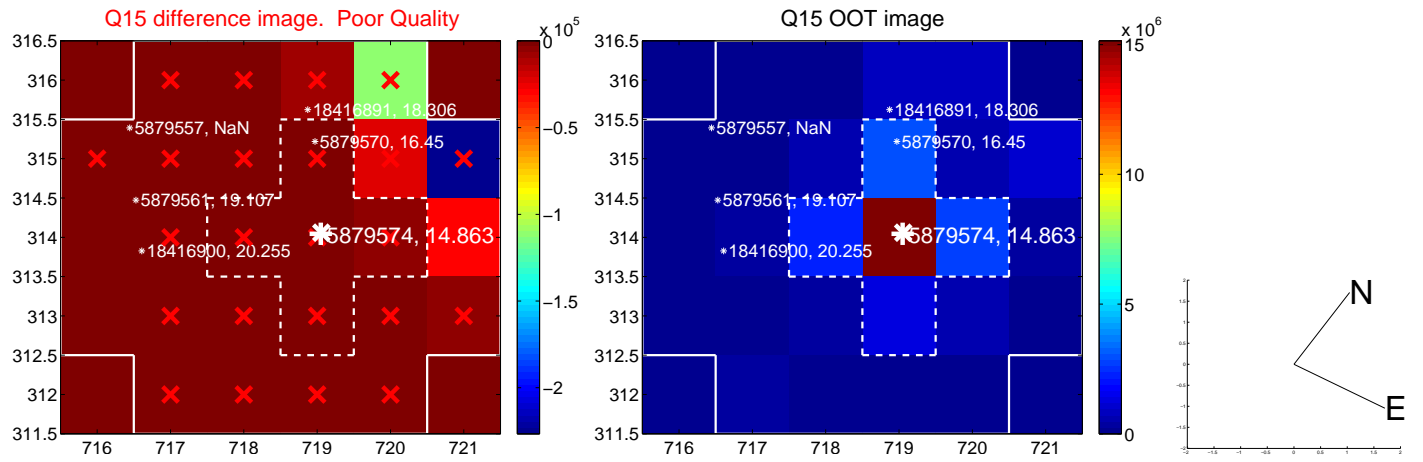
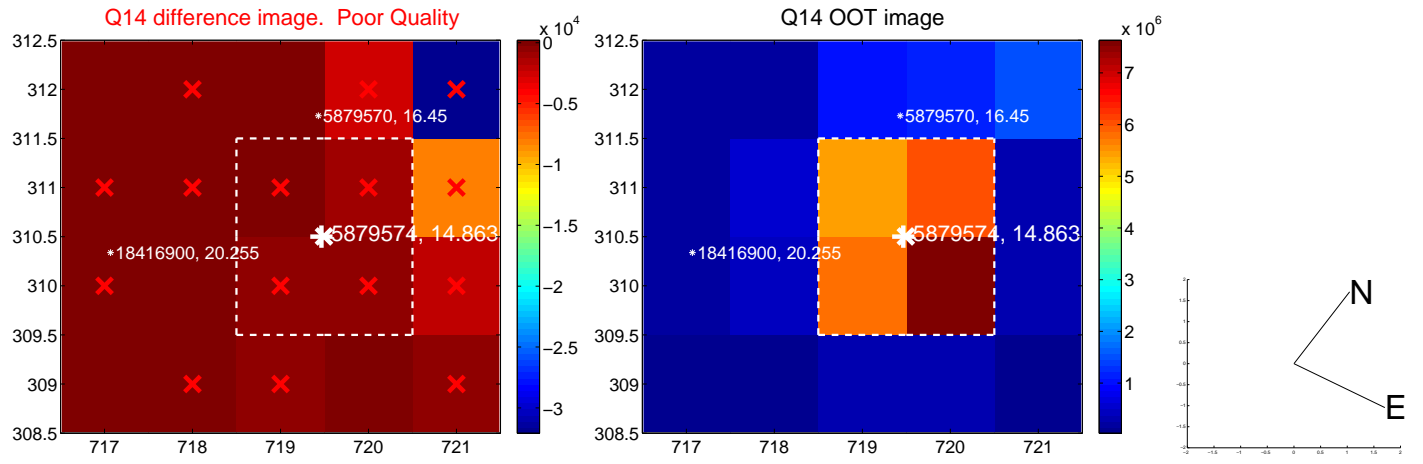
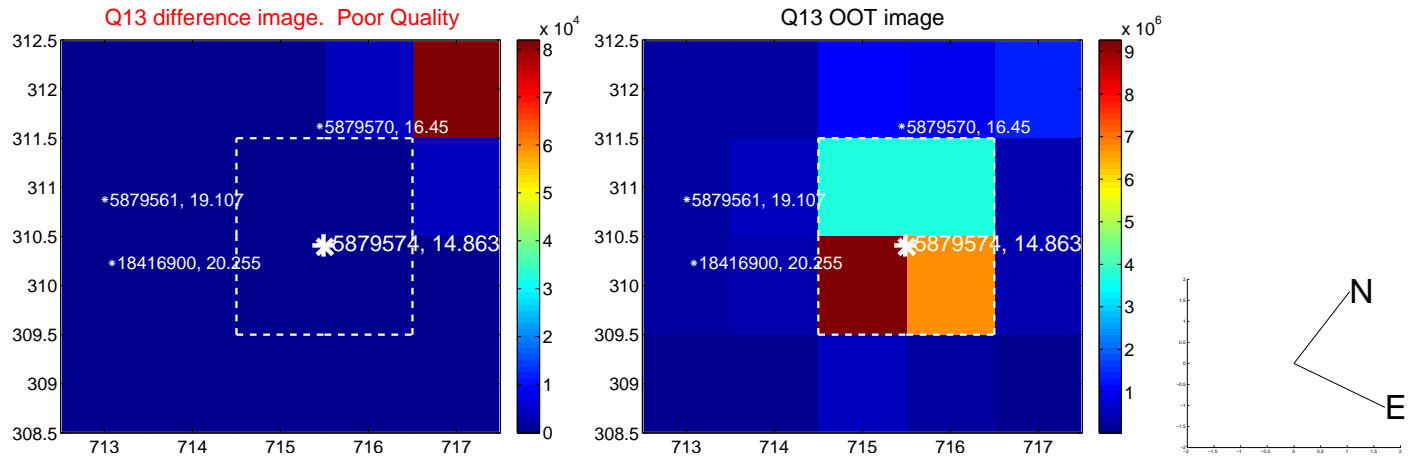
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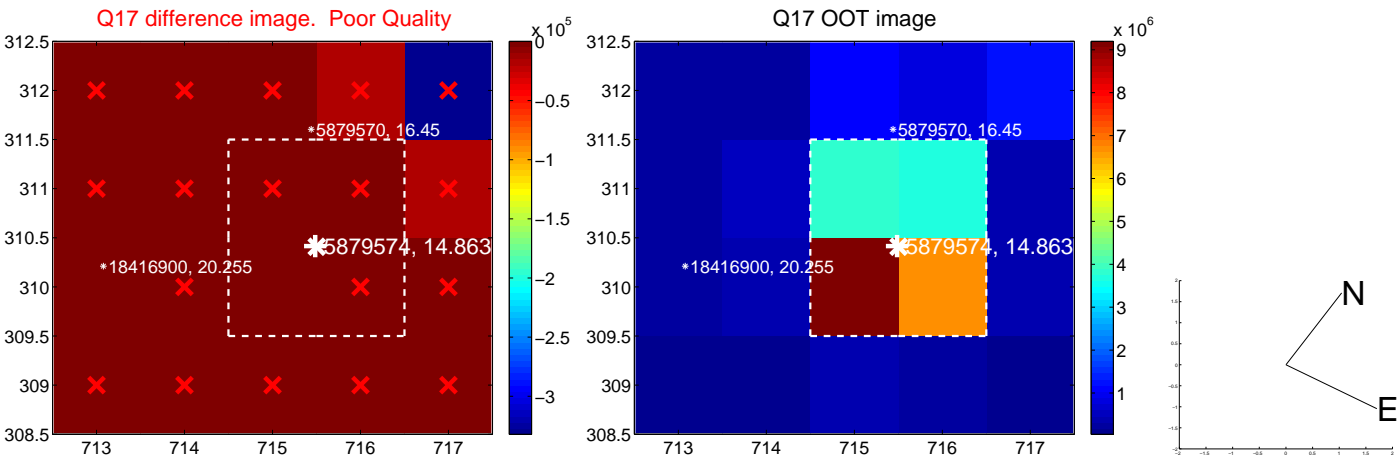
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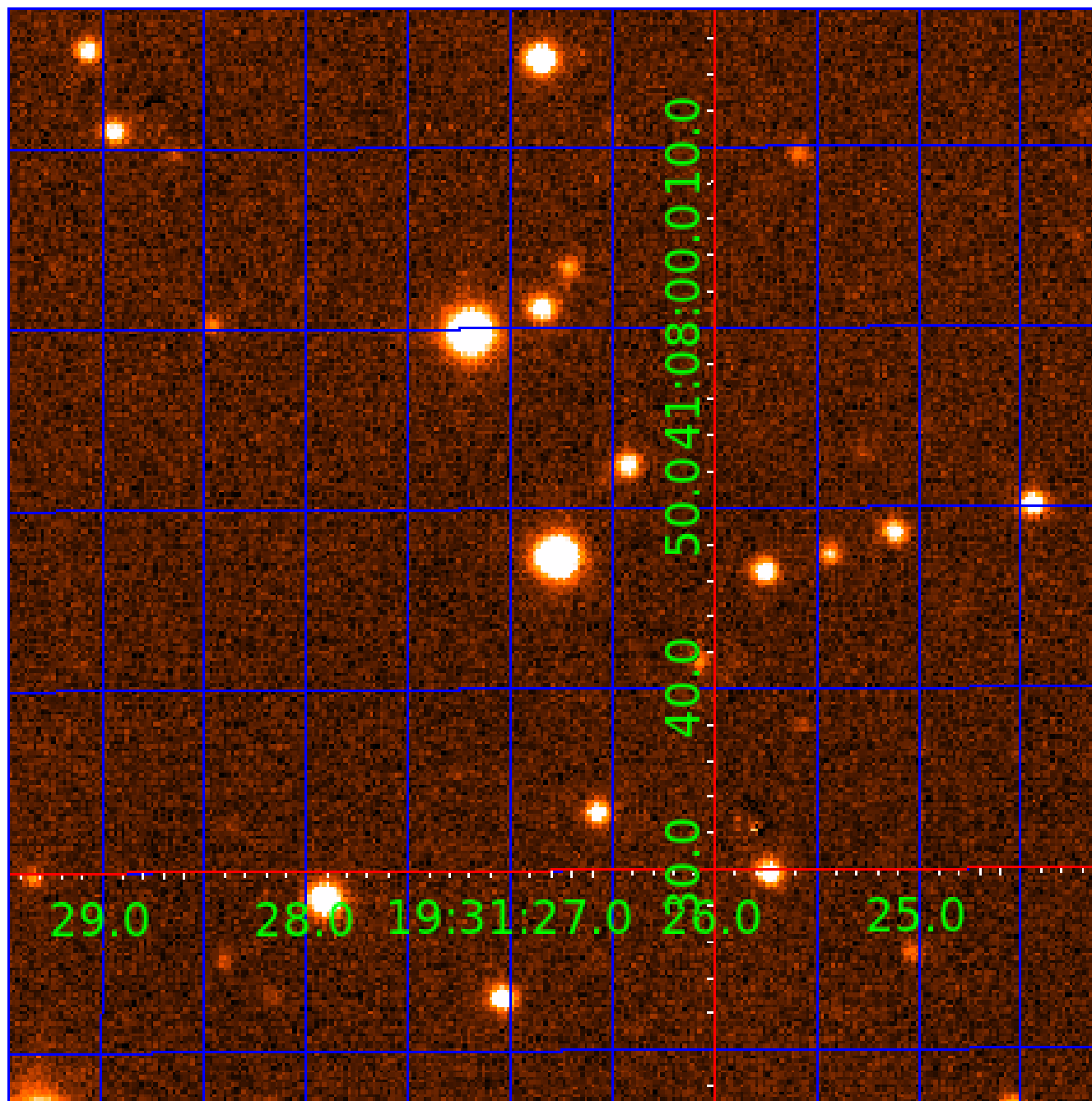
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 005879574

Q1-17 DR25 TCE Parameters

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Robovetter Results

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005879574-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005879574-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT— MOD_POS_ALT—CENT_RESOLVED_OFFSET
005879574-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV— MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

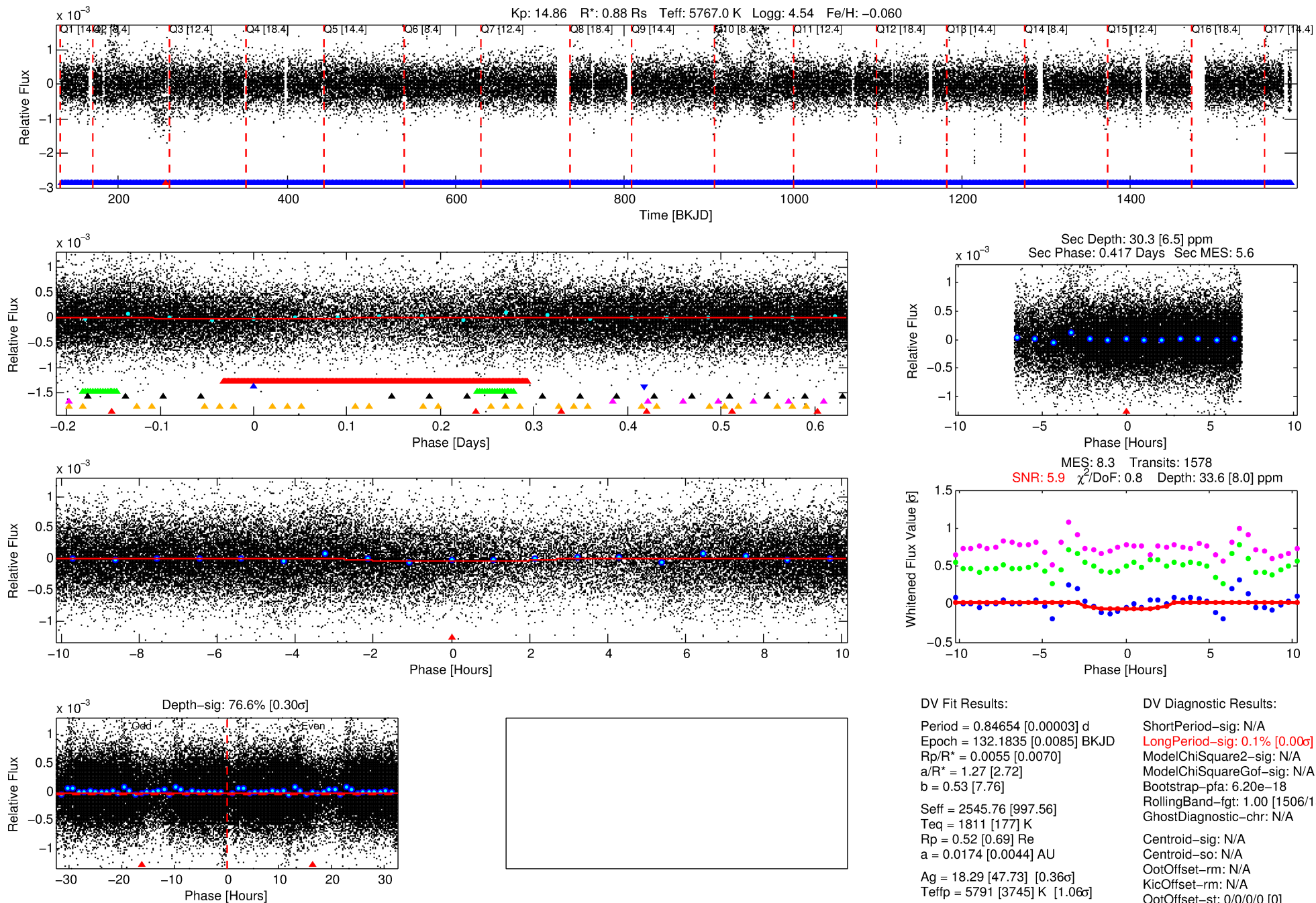
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005879574-02

No Significant Match Found

DV One-Page Summary

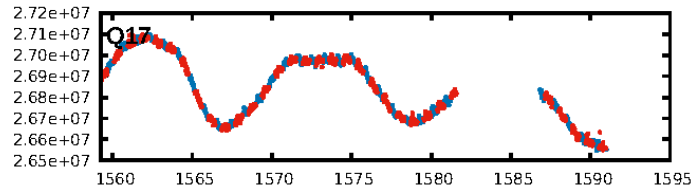
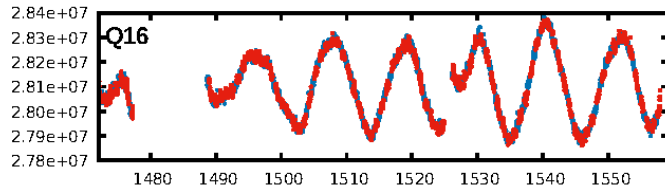
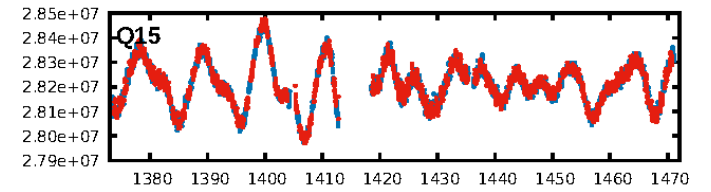
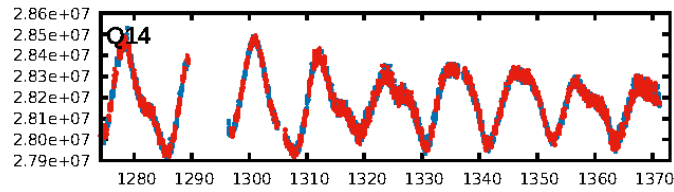
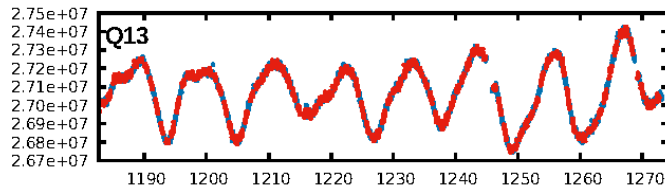
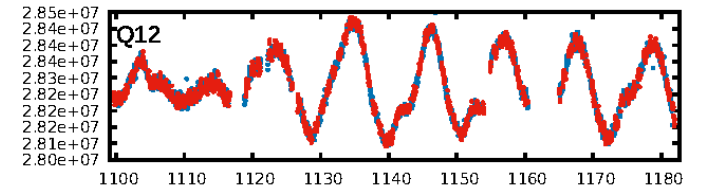
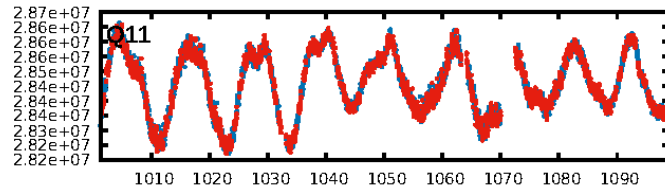
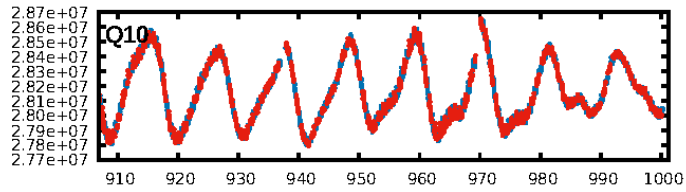
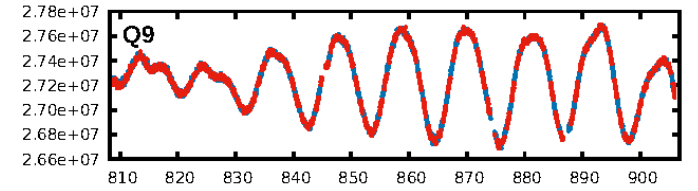
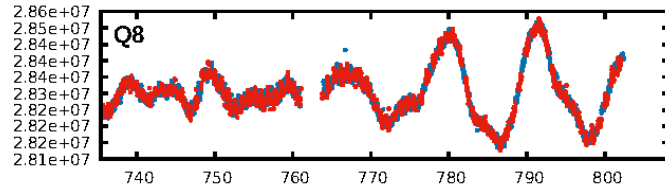
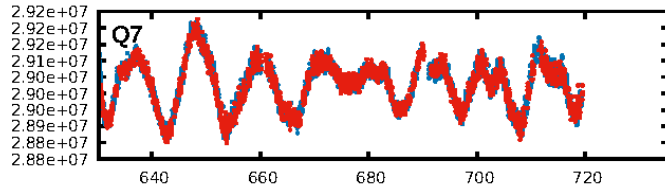
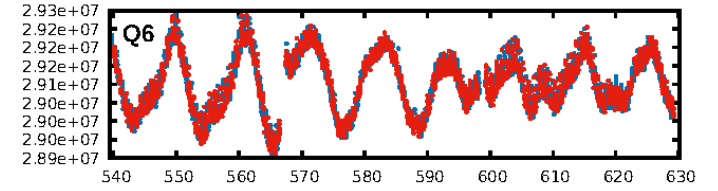
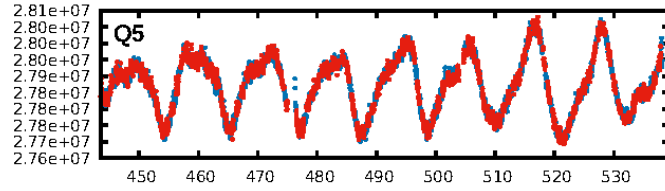
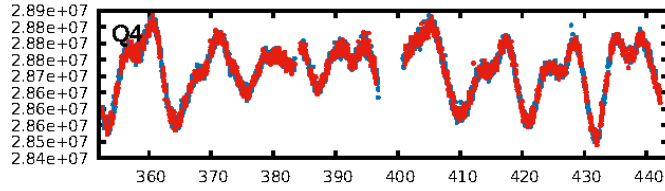
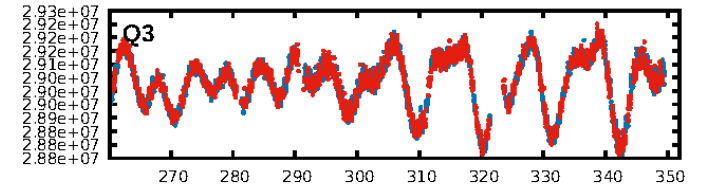
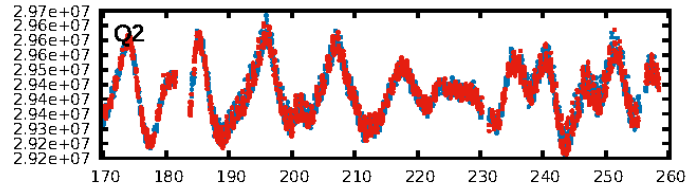
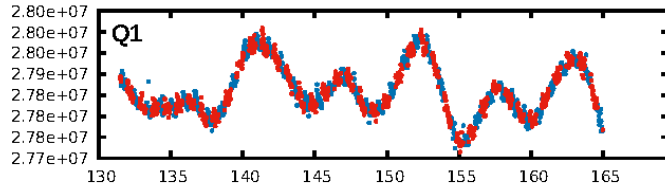
KIC: 5879574 Candidate: 2 of 7 Period: 0.847 d



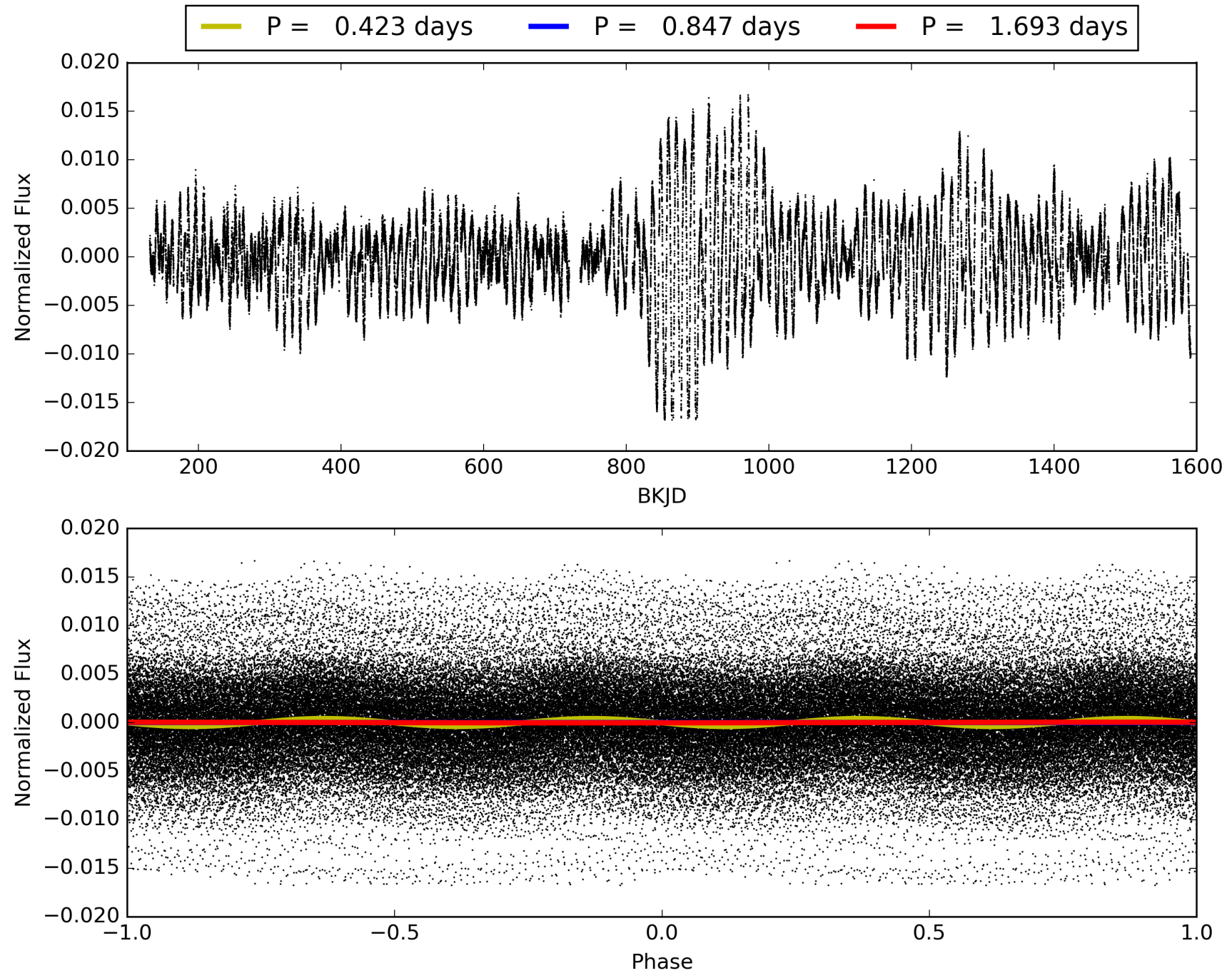
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 06:37:08 Z

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

TCE 005879574-02, PDC Light Curves

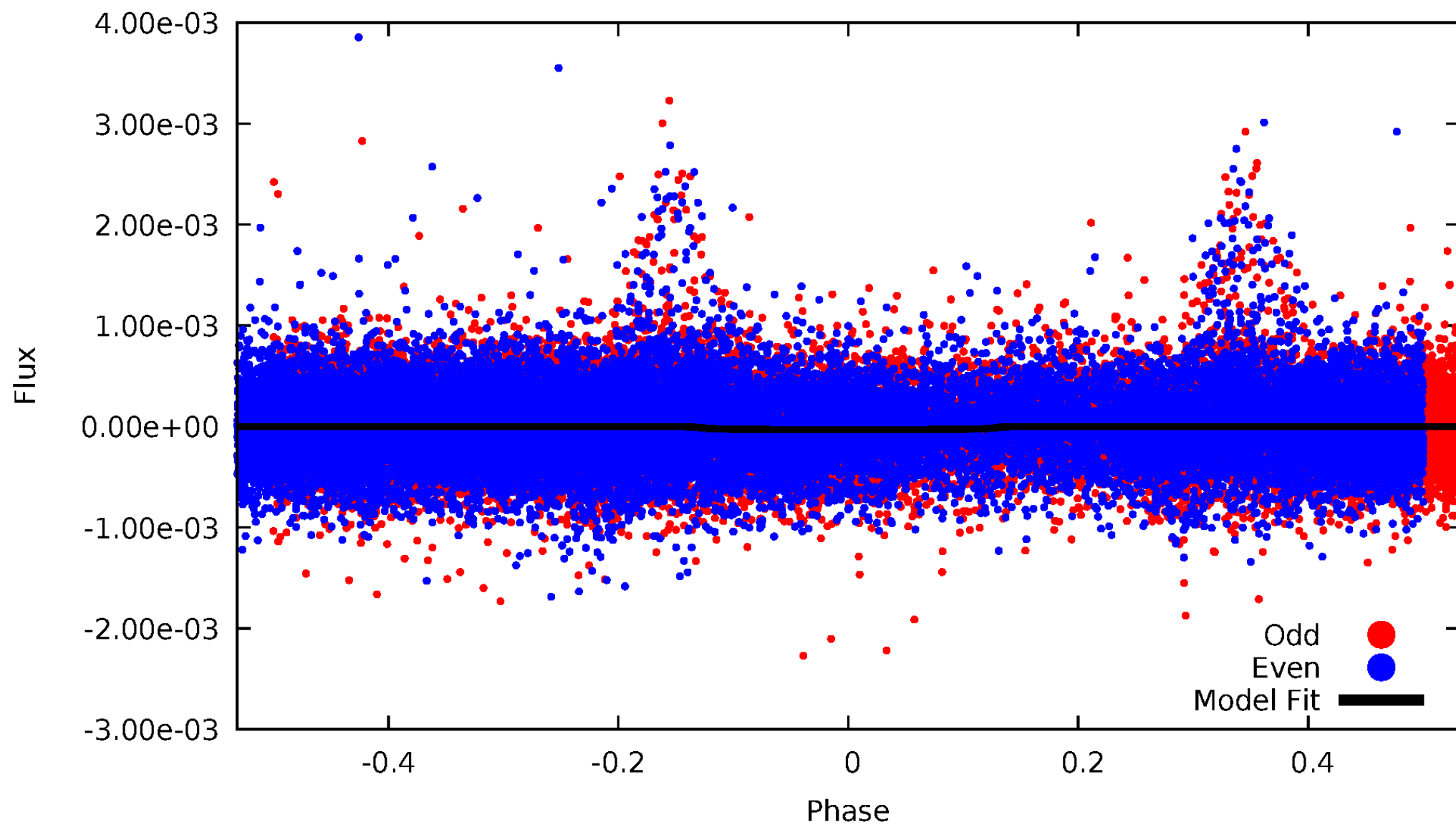


TCE 005879574-02



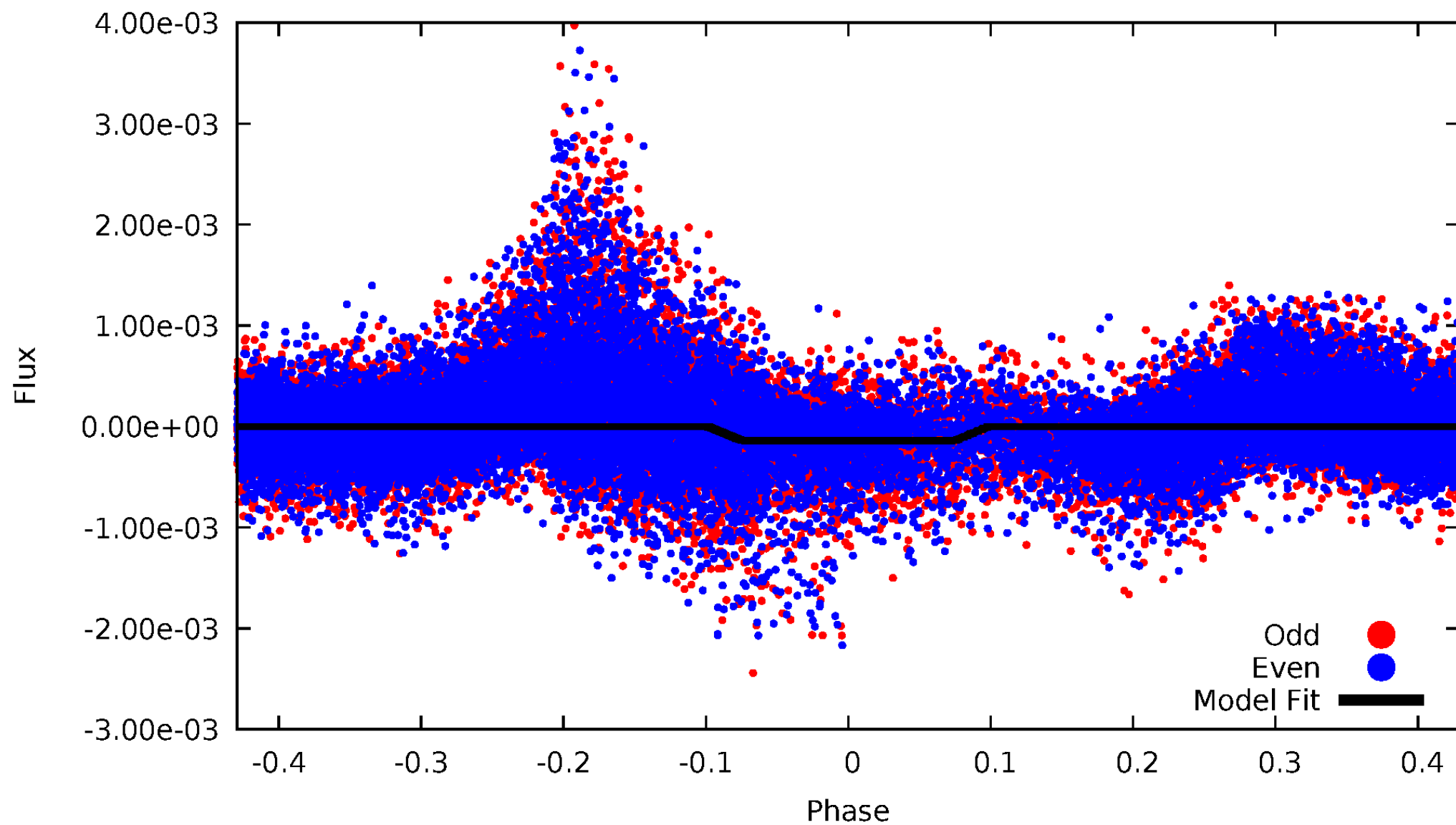
DV Odd/Even

TCE 005879574-02



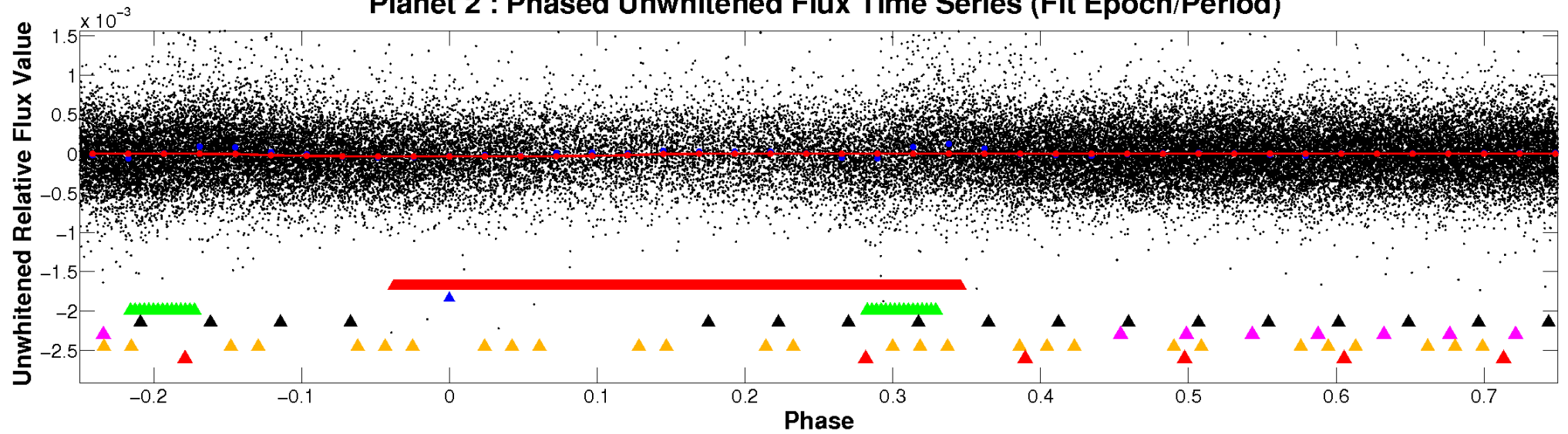
ALT Odd/Even

TCE 005879574-02

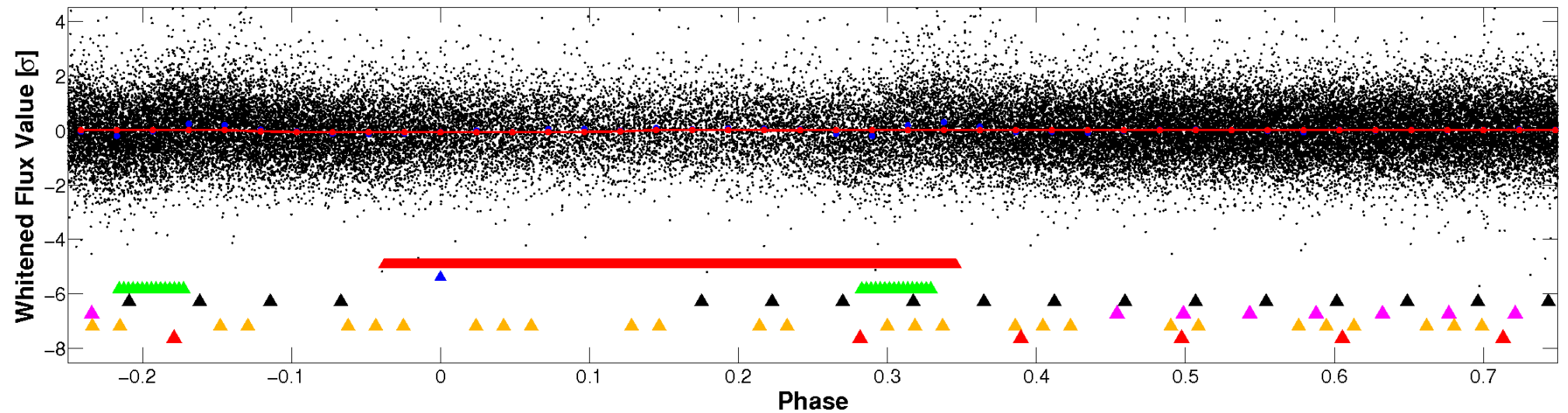


Non-Whitened Vs. Whitened Light Curve

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

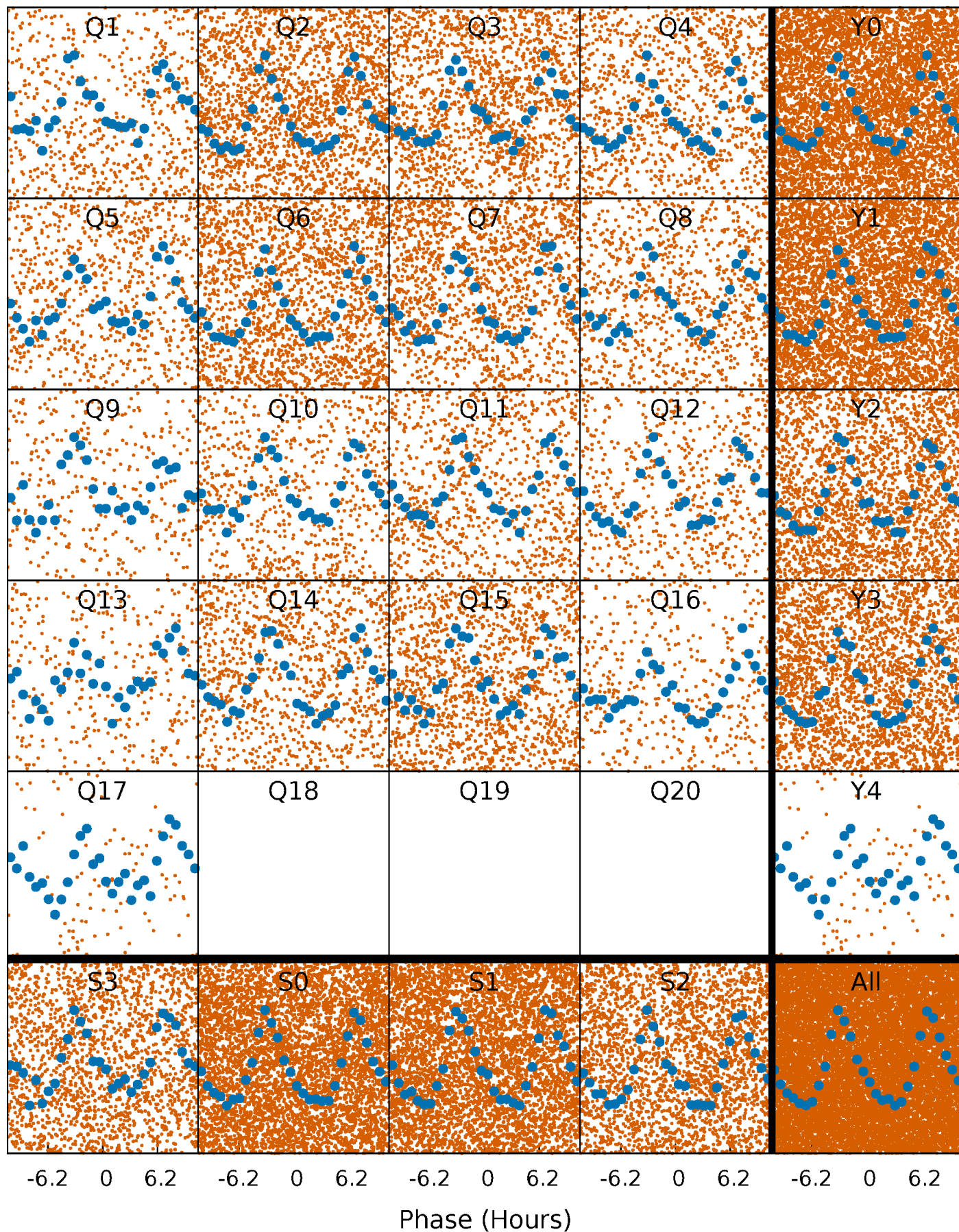


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



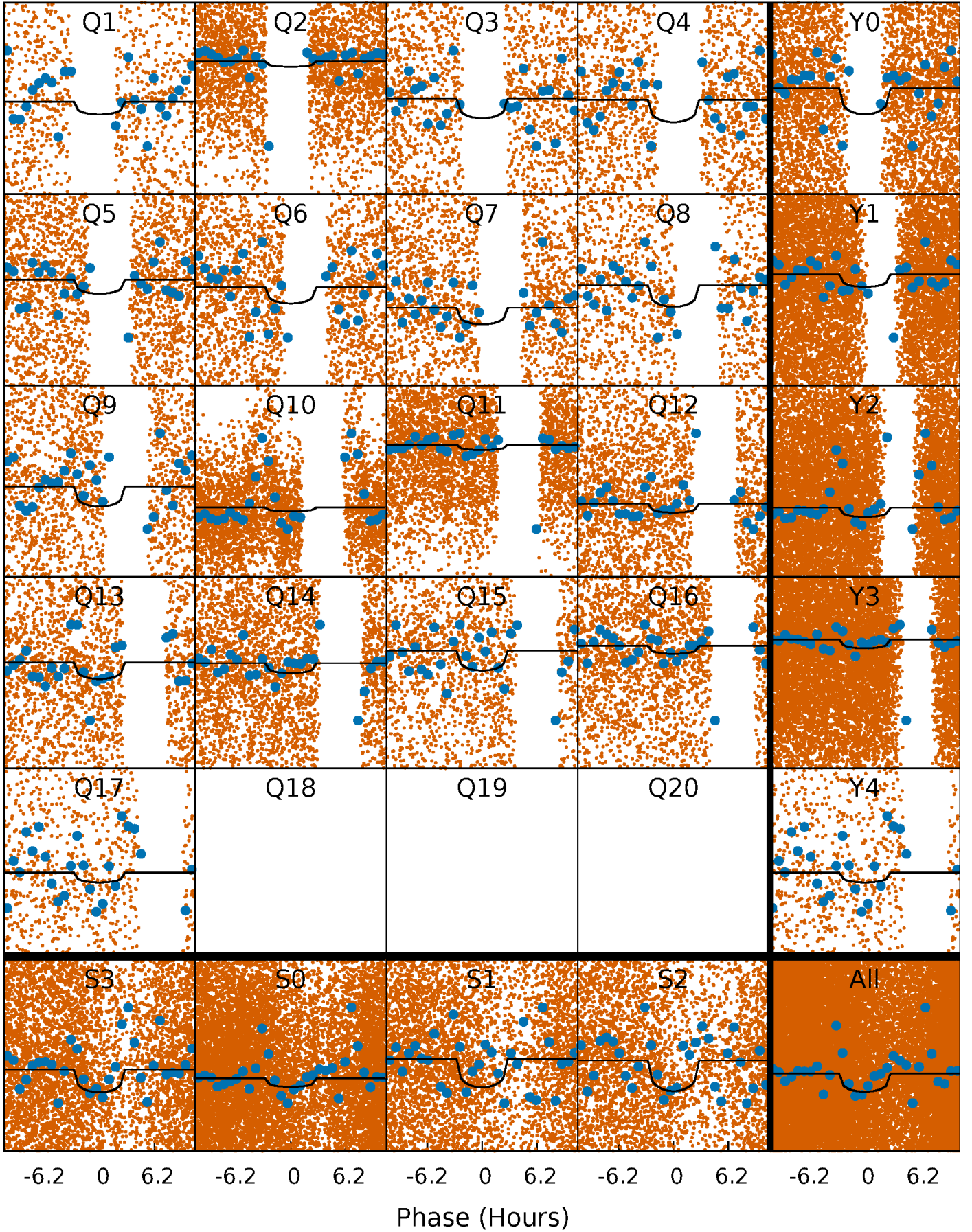
PDC Quarter-Phased Transit Curves

TCE 005879574-02 P= 0.846537 Days $T_0=132.183489$ (BKJD)



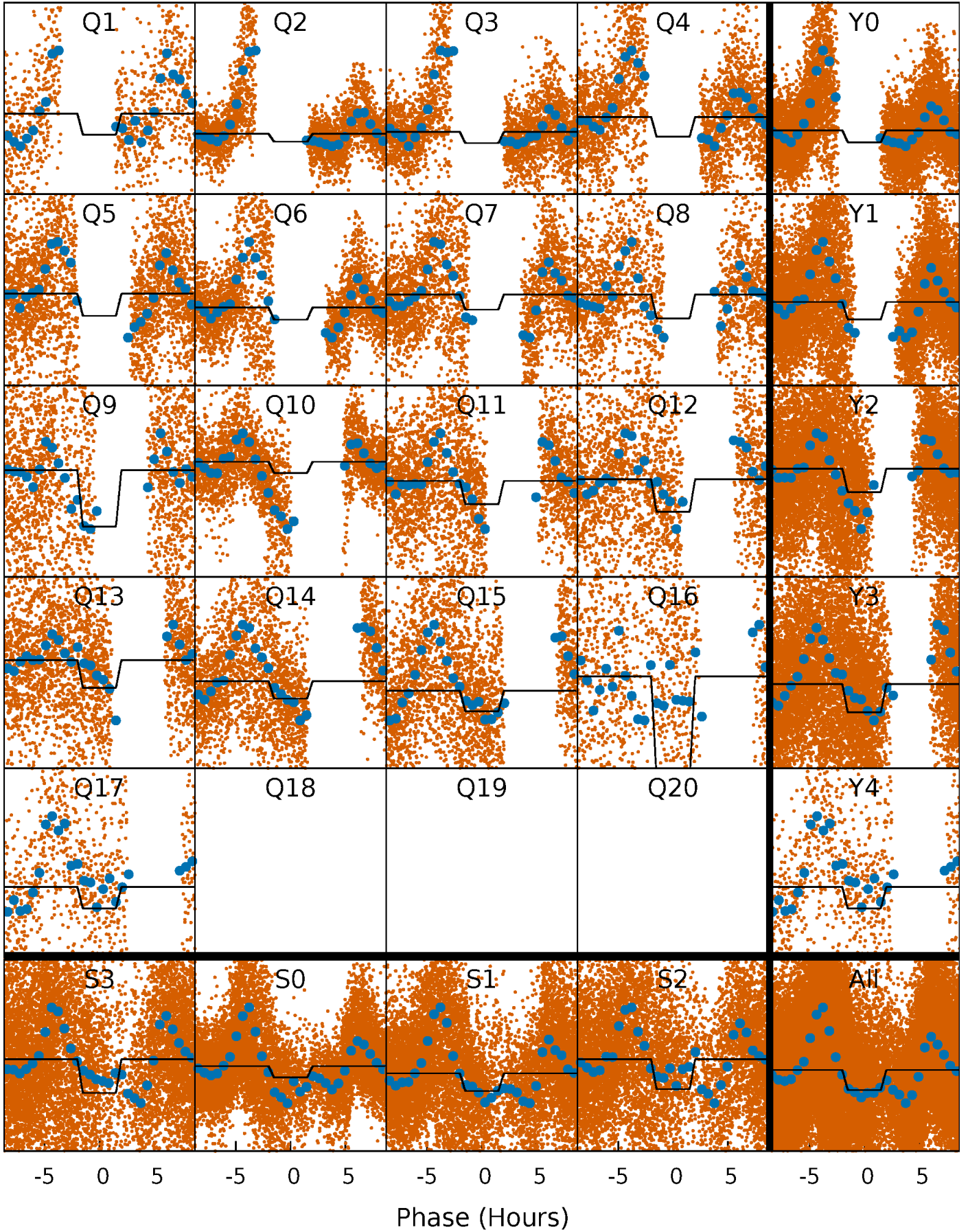
DV Quarter-Phased Transit Curves

TCE 005879574-02 P= 0.846537 Days $T_0=132.183489$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

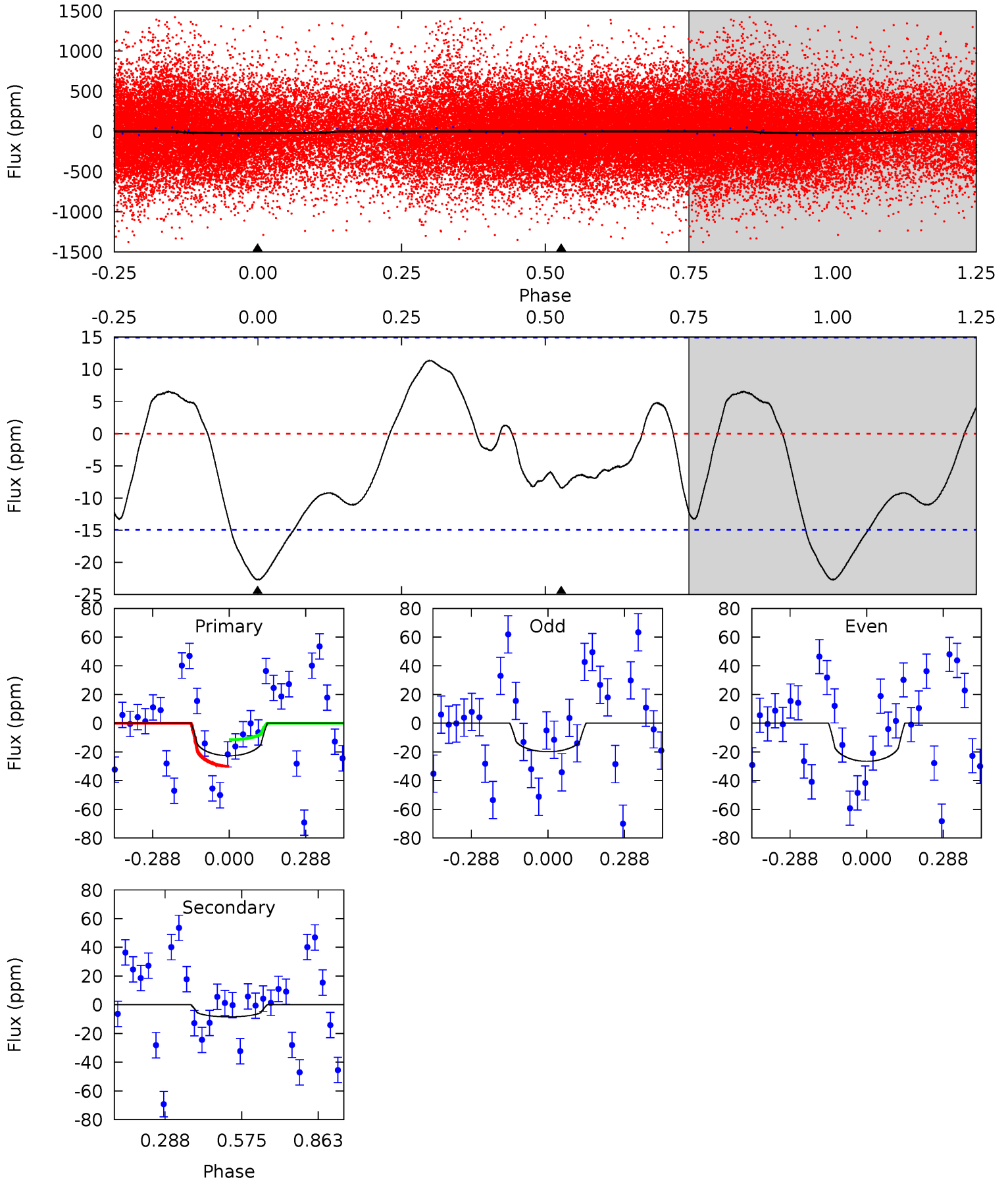
TCE 005879574-02 P= 0.846575 Days $T_0=132.197047$ (BKJD)



DV Model-Shift Uniqueness Test

005879574-02, P = 0.846537 Days, E = 131.336952 Days

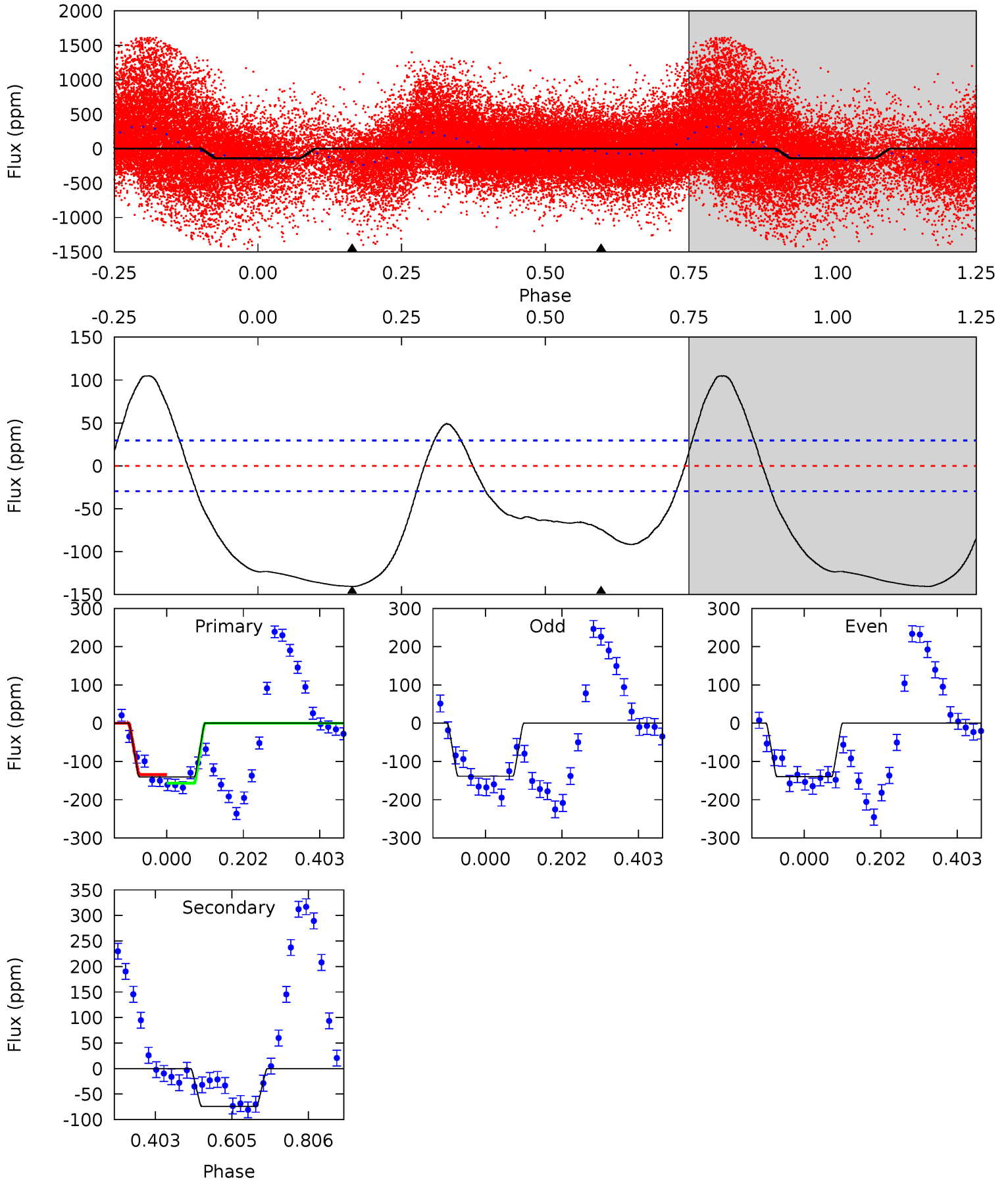
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.59	2.45	0	0	4.34	1.06	2.79	6.59	6.59	2.45	2.45	0.99	1.55	0.33	2.70



Alt Model-Shift Uniqueness Test

005879574-02, P = 0.846575 Days, E = 131.350472 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.0	11.1	0	0	4.42	1.28	9.84	21.0	21.0	11.1	11.1	0.08	1.85	0.43	1.94



Stellar Parameters For KIC 005879574

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5767^{+156}_{-190}	$4.538^{+0.036}_{-0.204}$	$-0.060^{+0.250}_{-0.300}$	$0.881^{+0.258}_{-0.086}$	$0.979^{+0.102}_{-0.125}$	$2.017^{+0.400}_{-1.030}$
	+3%/-3%	+1%/-4%	+417%/-500%	+29%/-10%	+10%/-13%	+20%/-51%
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 005879574-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-8 ± 3	$0.73^{+0.61}_{-0.45}$	2590^{+193}_{-118}	3802^{+1960}_{-966}	$2.258^{+14.525}_{-1.664}$
Alt.	-74 ± 7	$1.27^{+0.67}_{-0.63}$	2593^{+190}_{-125}	4871^{+1919}_{-838}	$7.342^{+21.760}_{-4.217}$

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

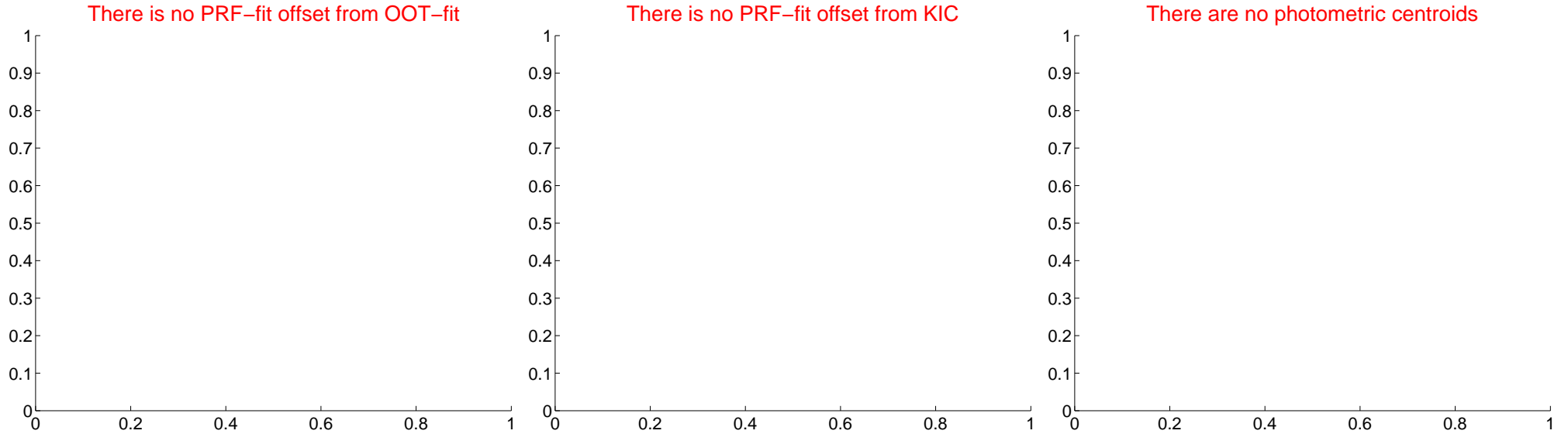
DV Centroid Data

Supplemental centroid analysis for 005879574-02. Kepler magnitude: 14.86. Transit SNR 5.94

There are 0 quarters with good PRF difference image offsets

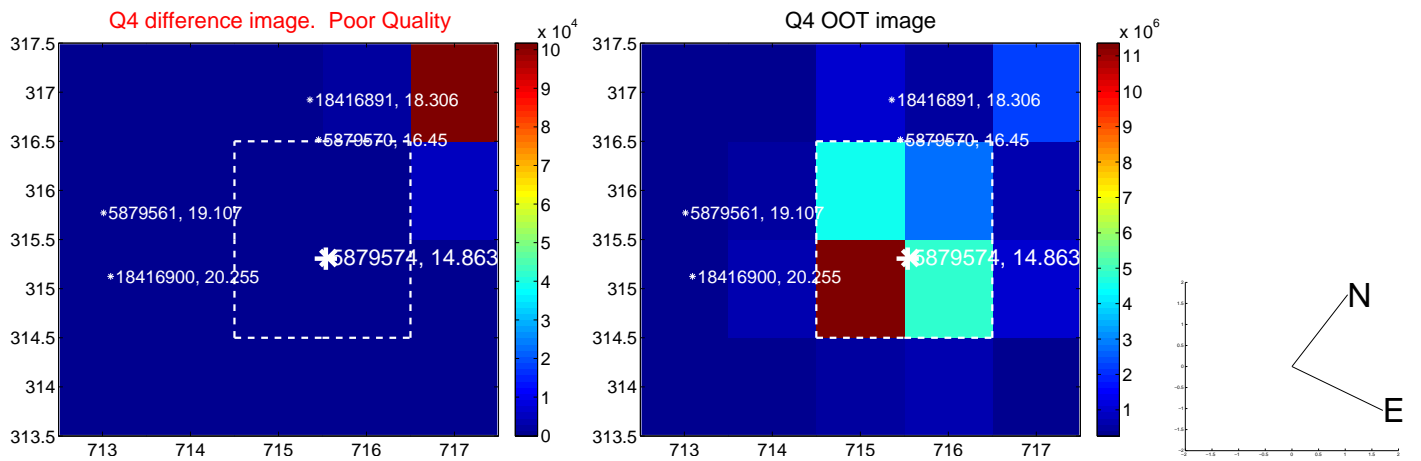
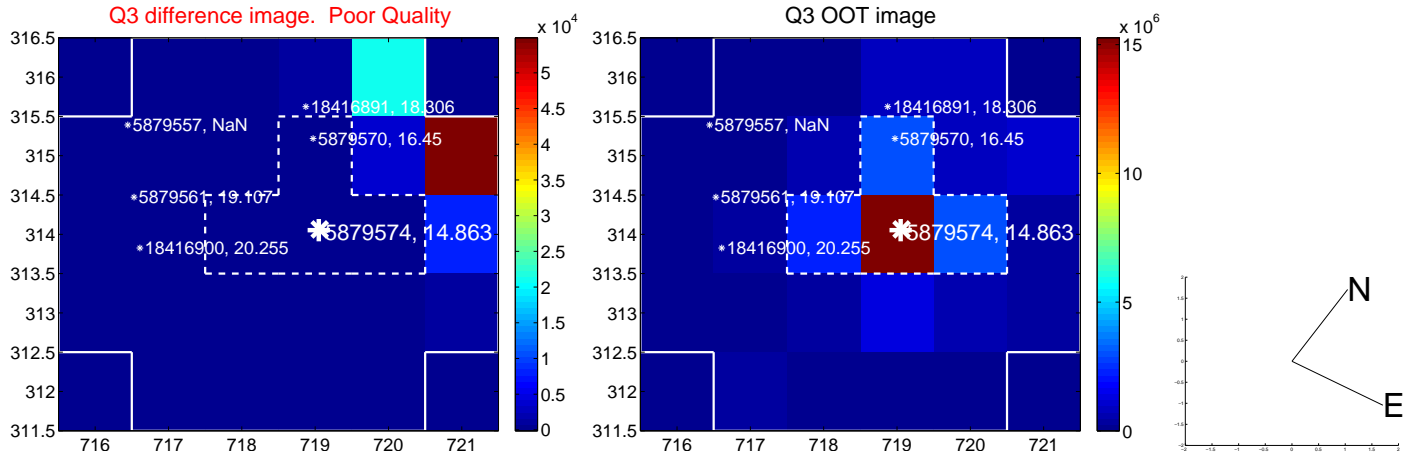
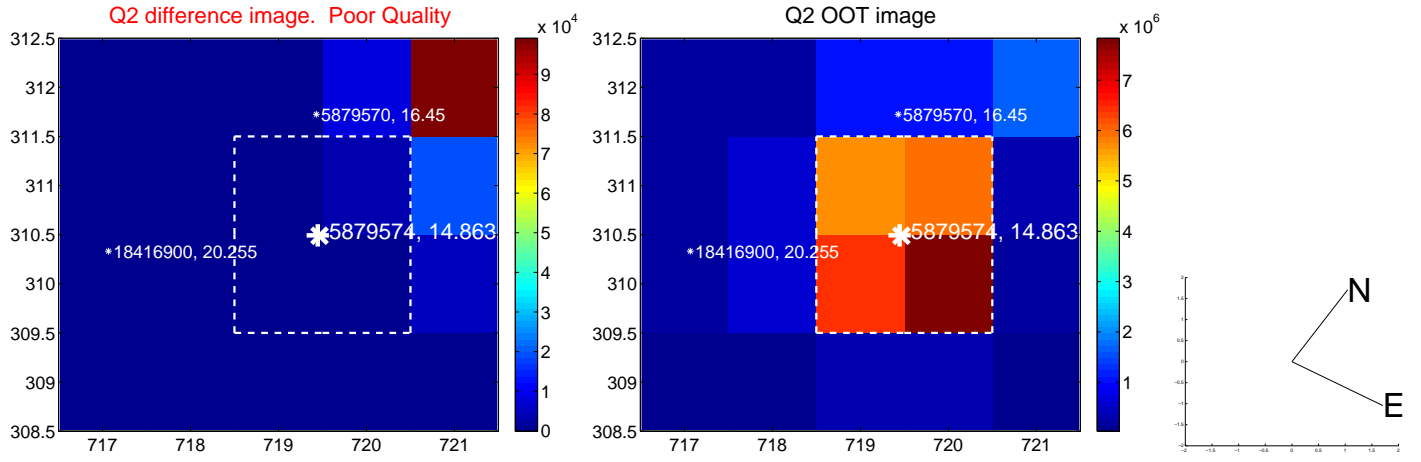
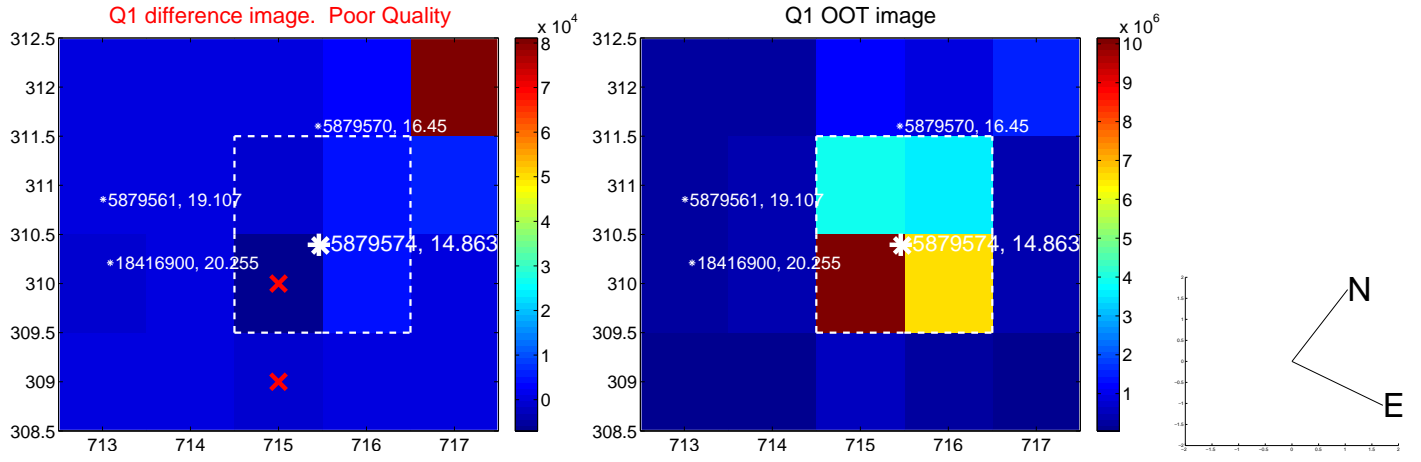
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	—	—	—	—

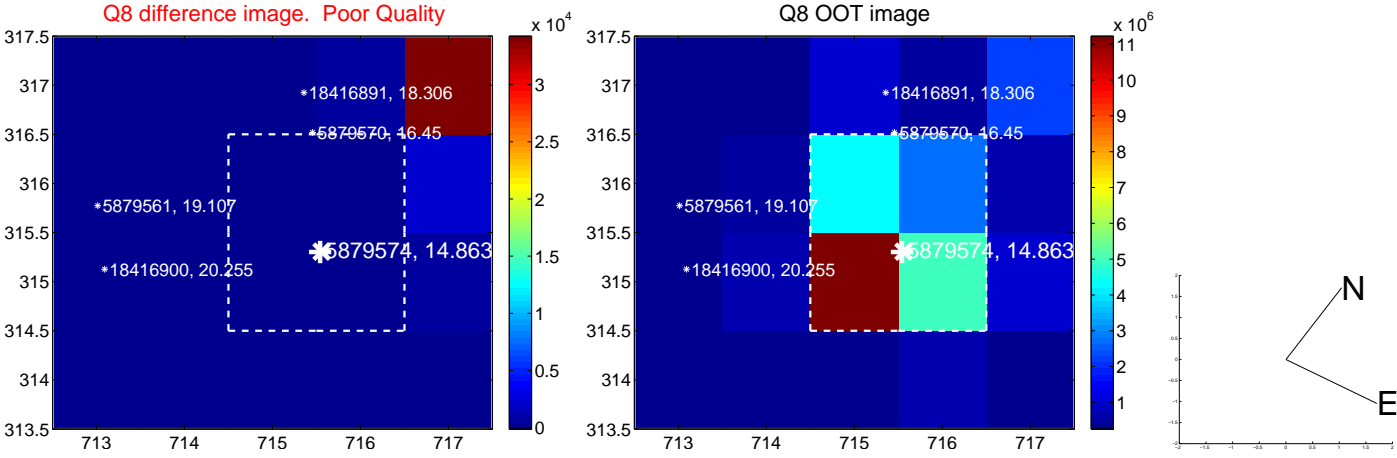
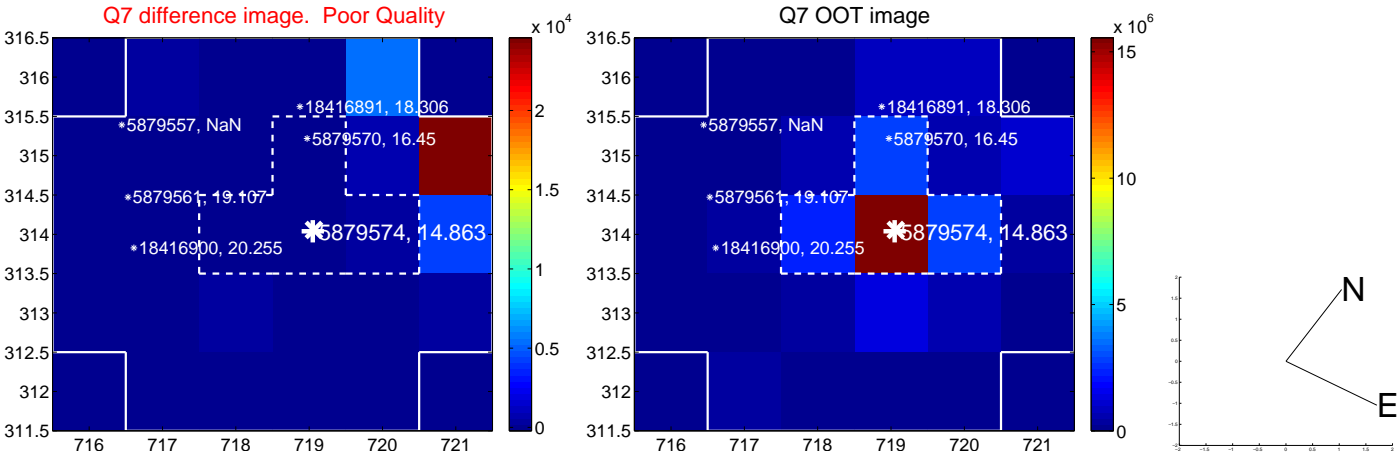
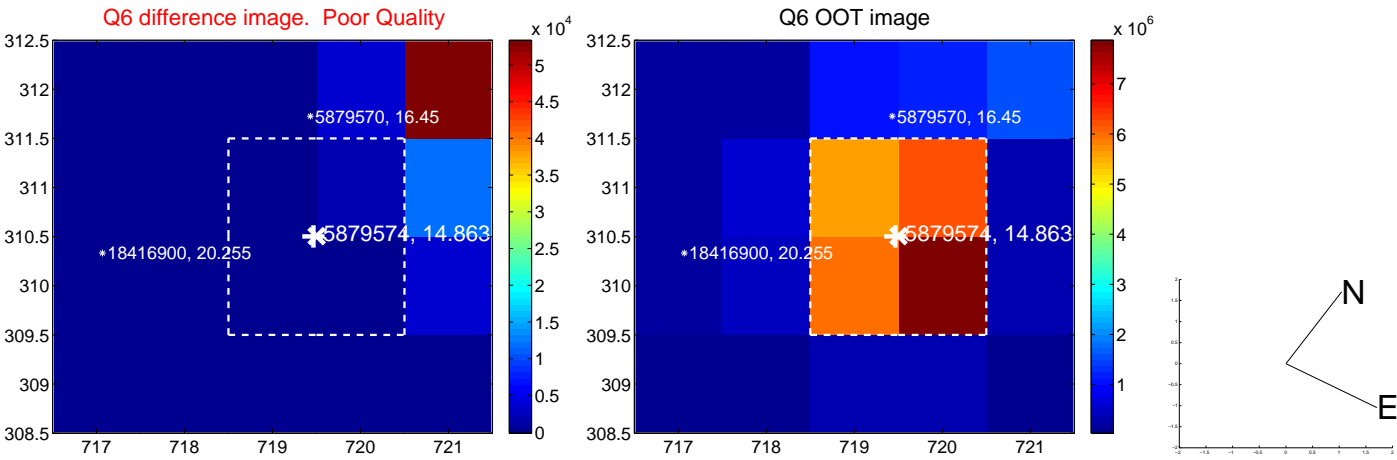
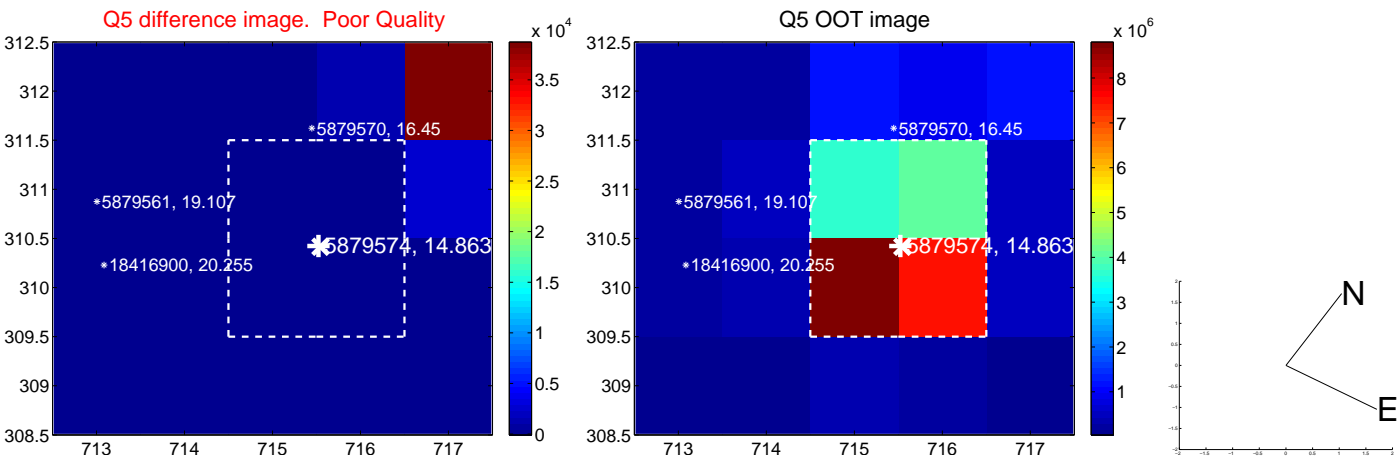


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

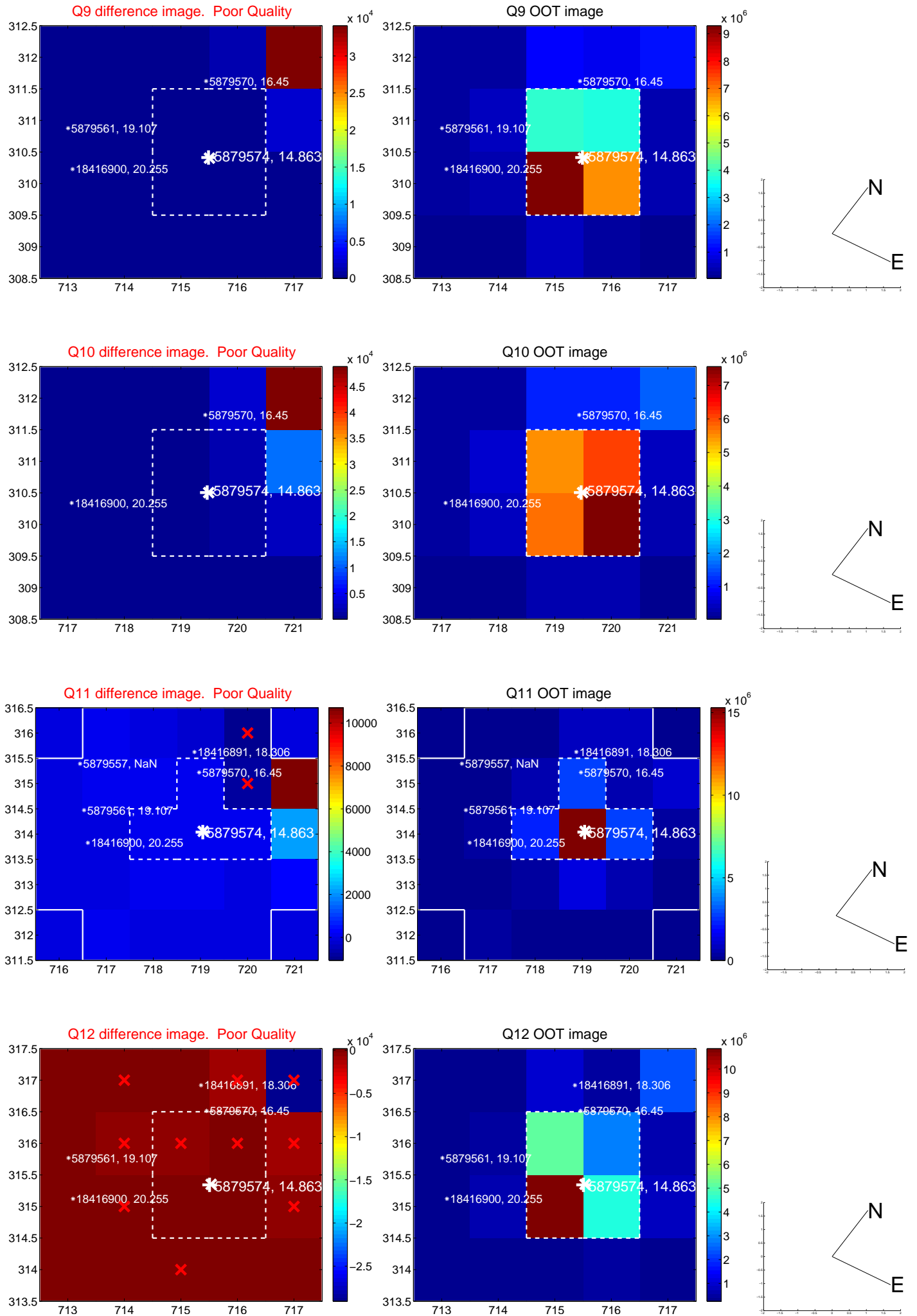
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



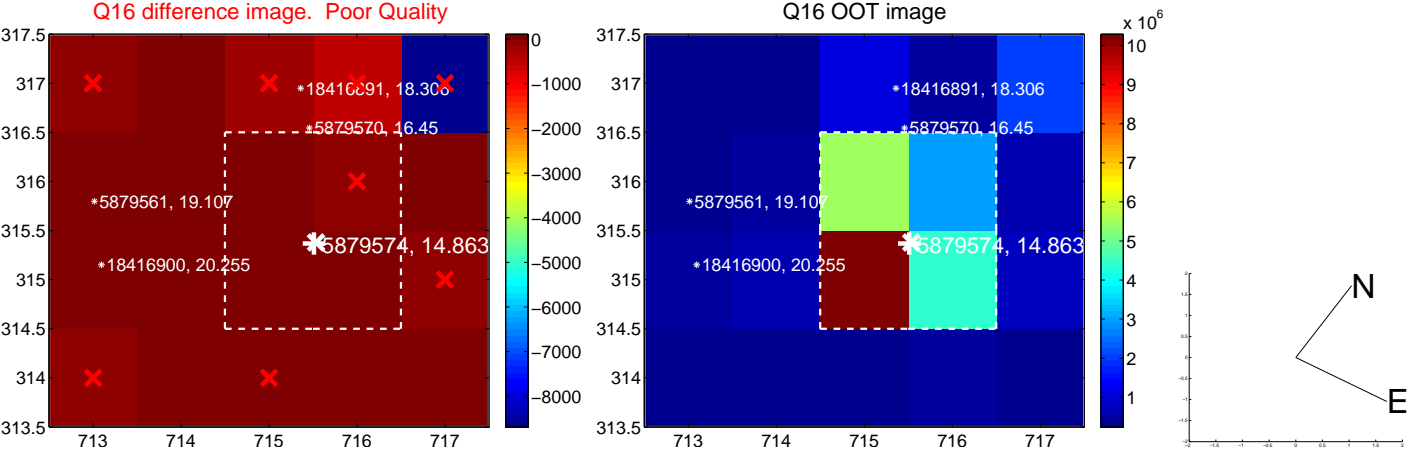
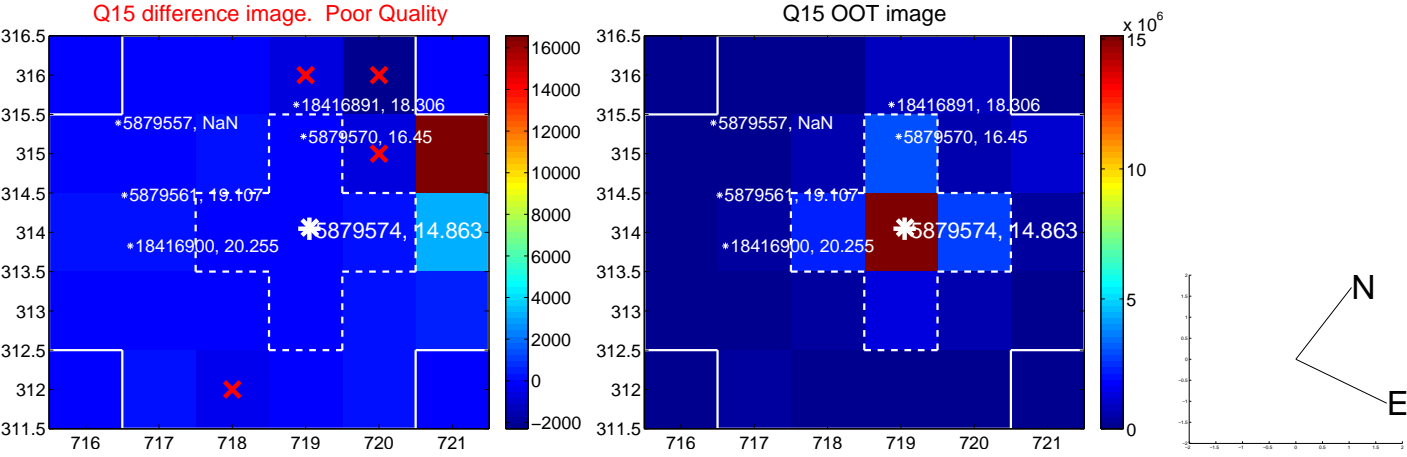
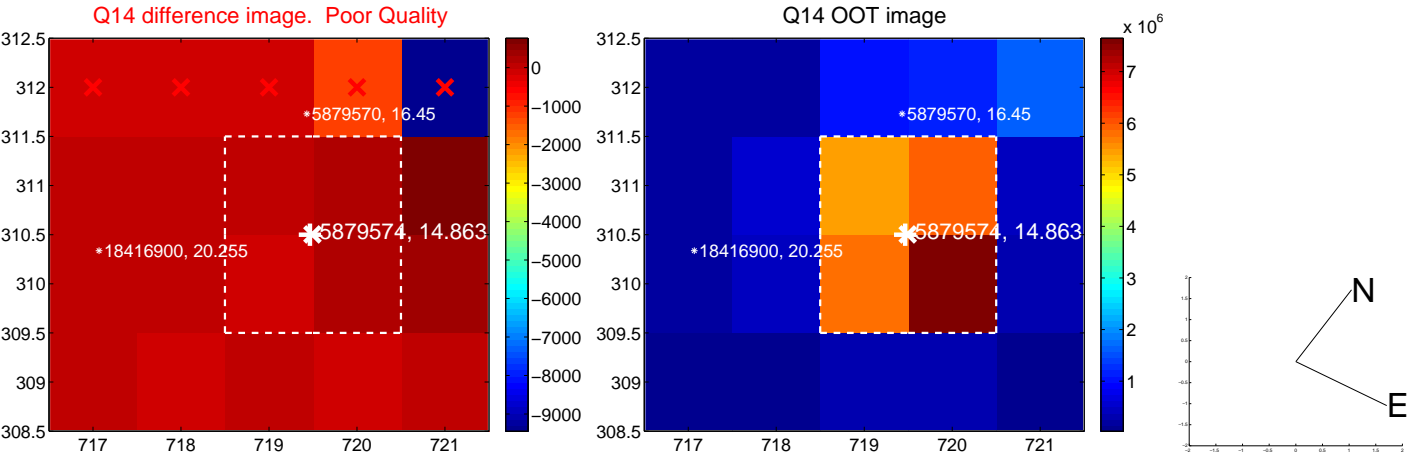
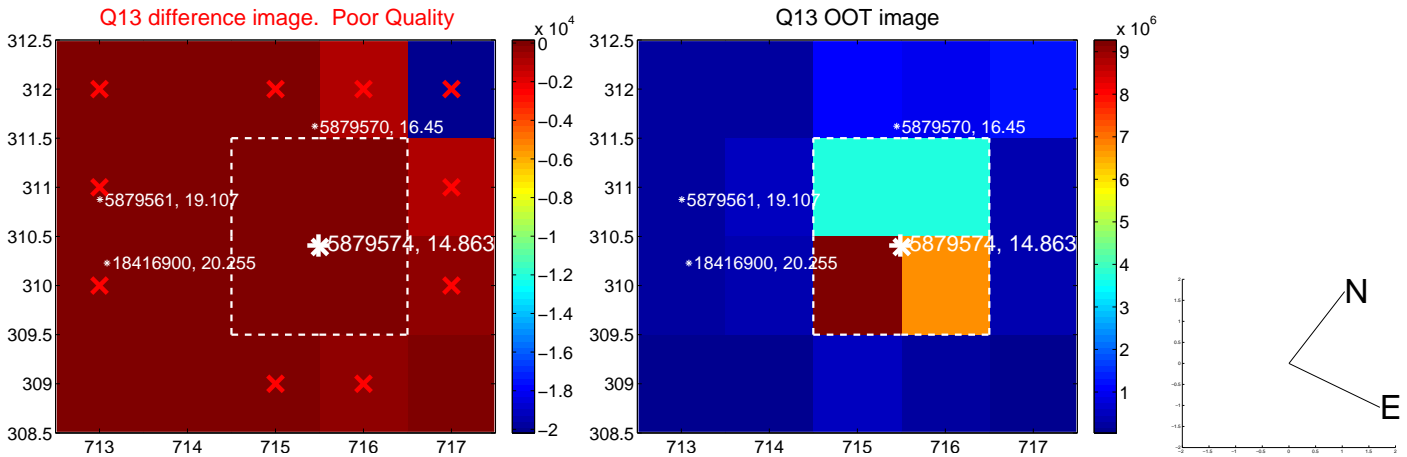
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



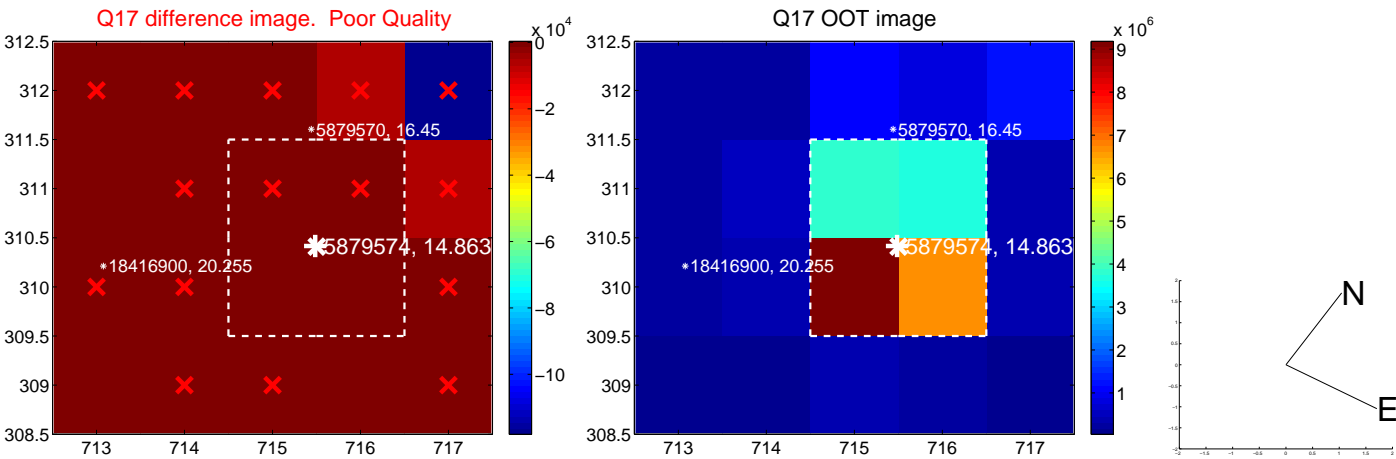
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



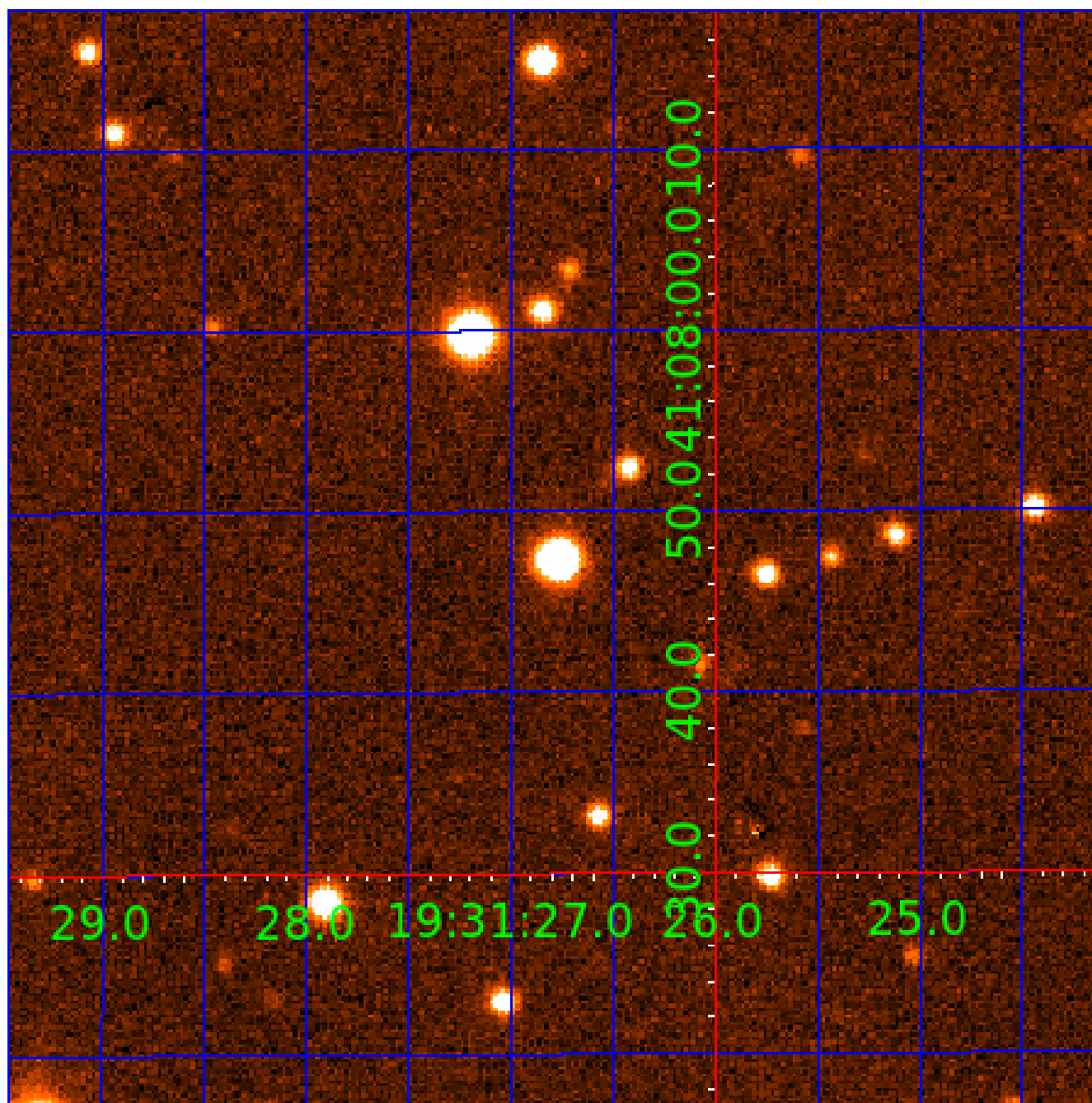
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 005879574

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})
005879574-01	OBS	No	0.846726	132.151481	15.7	1.378	8.3	2.3	0.88	5767	0.41	2545.00
005879574-02	OBS	No	0.846537	132.183489	33.6	5.398	8.3	5.9	0.88	5767	0.53	2545.76
005879574-04	OBS	No	85.460142	153.290330	484.4	11.724	14.9	3.9	0.88	5767	2.03	5.42
005879574-06	OBS	No	52.791700	147.940220	753.7	11.647	10.4	6.7	0.88	5767	2.97	10.29
005879574-07	OBS	No	223.577114	322.892776	1710.2	14.338	9.7	6.3	0.88	5767	6.98	1.50

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005879574-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET
005879574-02	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_RESOLVED_OFFSET
005879574-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005879574-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET
005879574-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

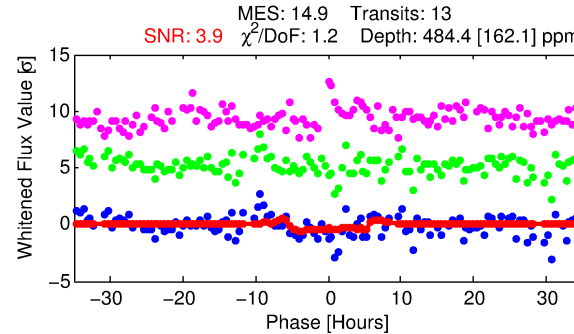
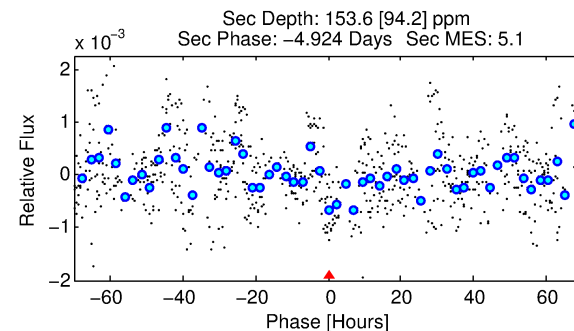
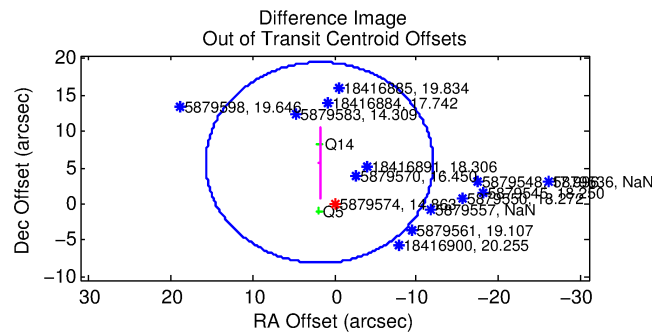
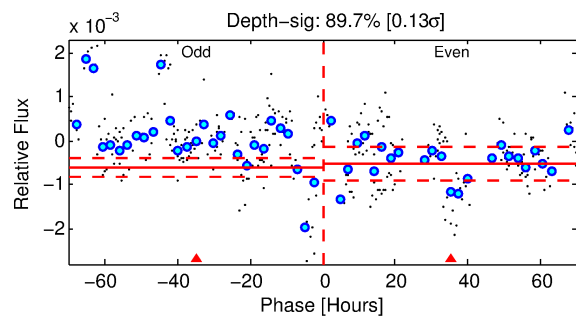
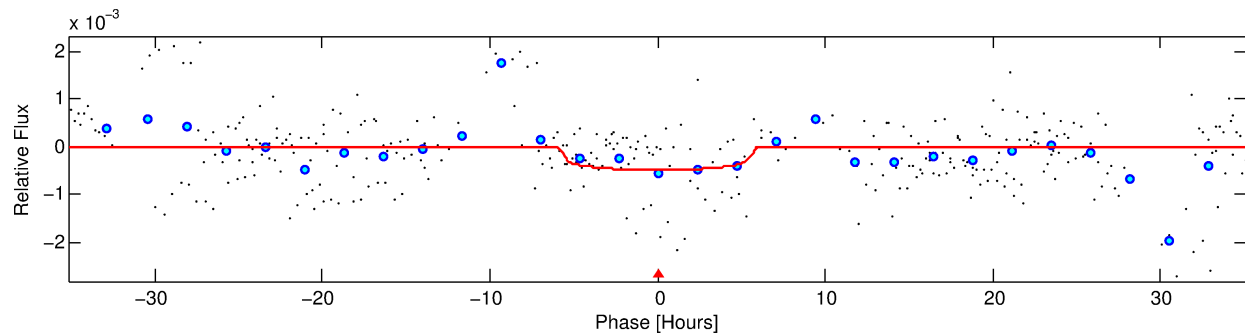
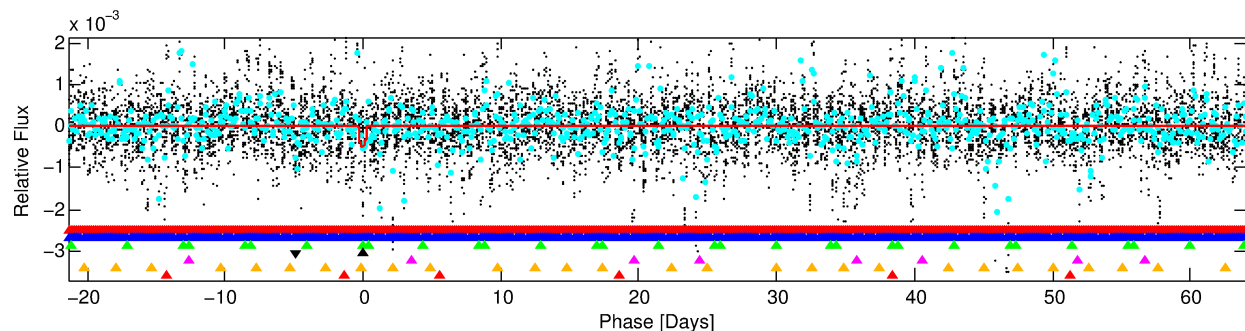
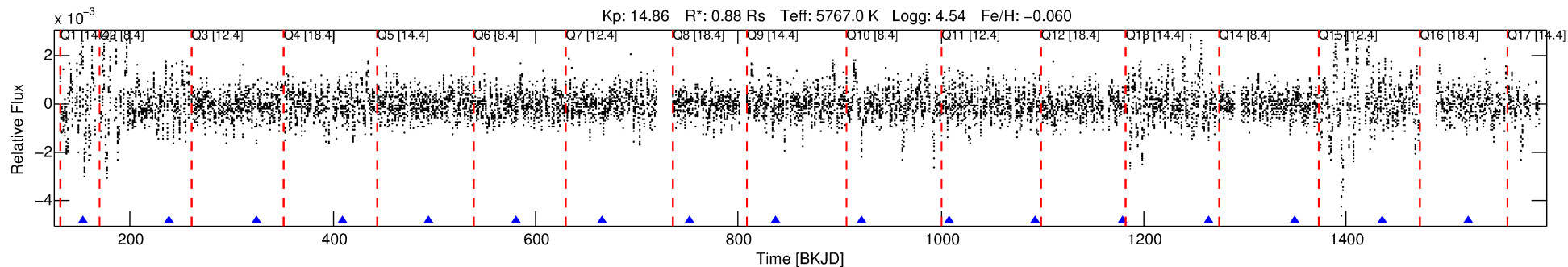
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005879574-04

No Significant Match Found

DV One-Page Summary

KIC: 5879574 Candidate: 4 of 7 Period: 85.460 d



DV Fit Results:

Period = 85.46014 [0.00881] d
Epoch = 153.2903 [0.0809] BKJD
Rp/R* = 0.0211 [0.0197]
a/R* = 45.02 [182.55]
b = 0.62 [4.05]
Seff = 5.42 [2.12]
Teq = 389 [38] K
Rp = 2.03 [1.98] Re
a = 0.3769 [0.0943] AU
Ag = 2918.69 [5825.56] [0.50σ]
Teffp = 4421 [2173] K [1.86σ]

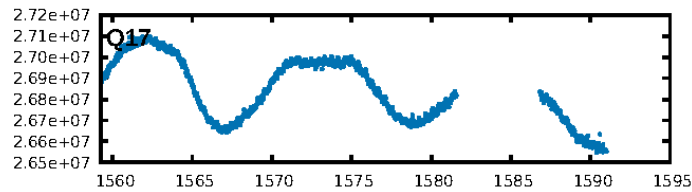
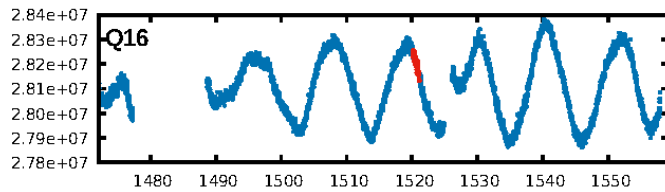
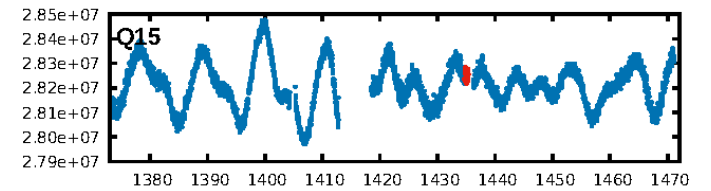
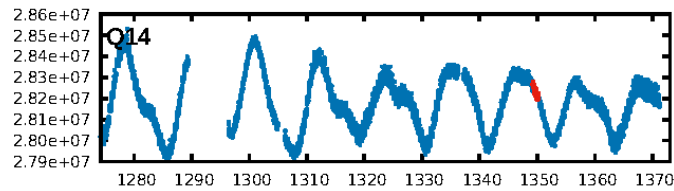
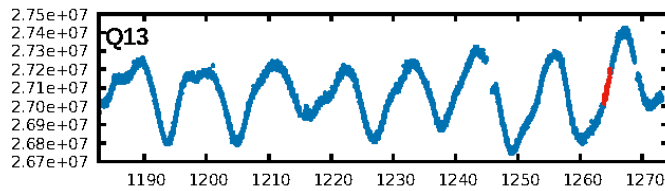
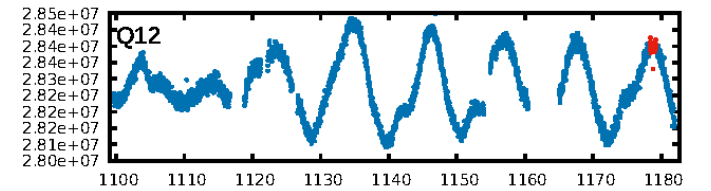
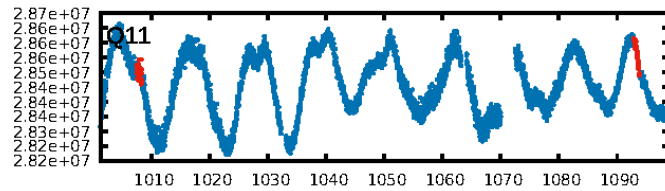
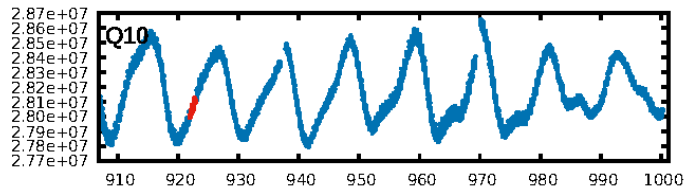
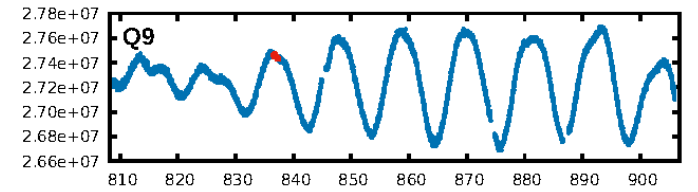
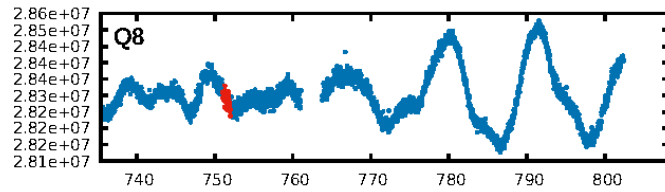
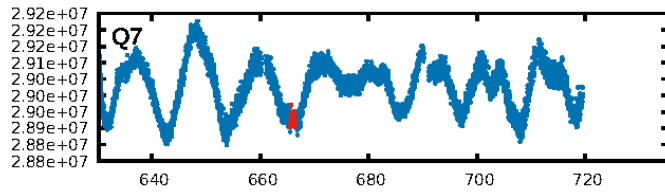
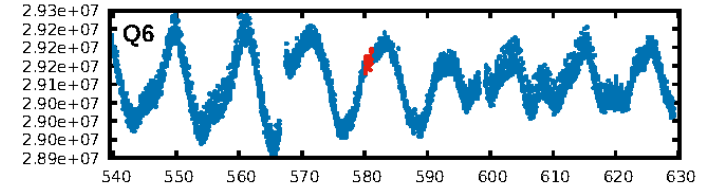
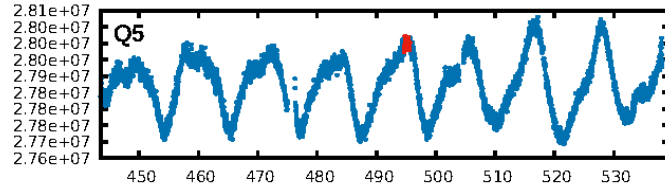
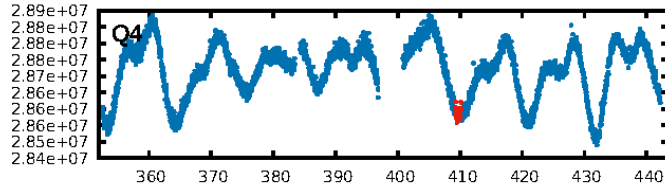
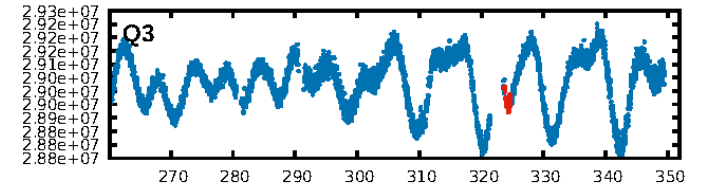
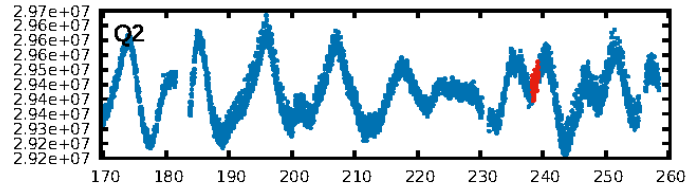
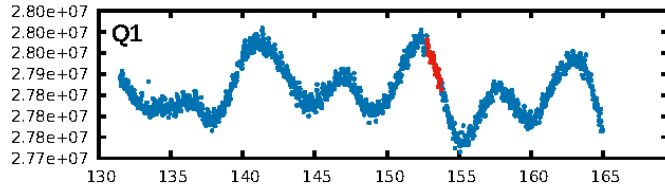
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [47.44σ]
LongPeriod-sig: 100.0% [184.01σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.63e-21
RollingBand-fgt: 1.00 [13/13]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 5.972 arcsec [1.29σ]
KicOffset-rm: 5.893 arcsec [1.27σ]
OotOffset-st: 1/0/0/1 [2]
KicOffset-st: 1/0/0/1 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 0.00 [0/12]

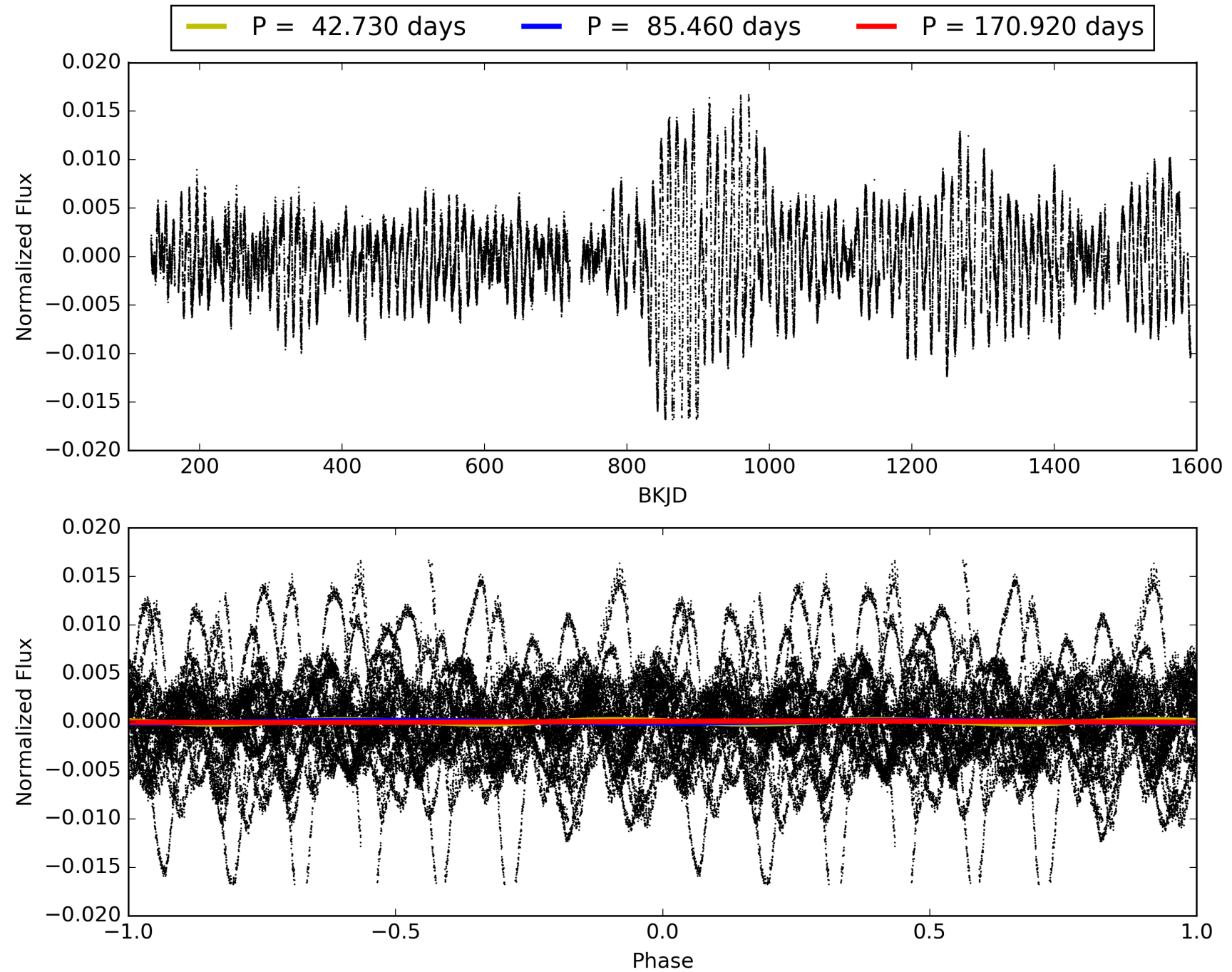
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 06:37:21 Z

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

TCE 005879574-04, PDC Light Curves

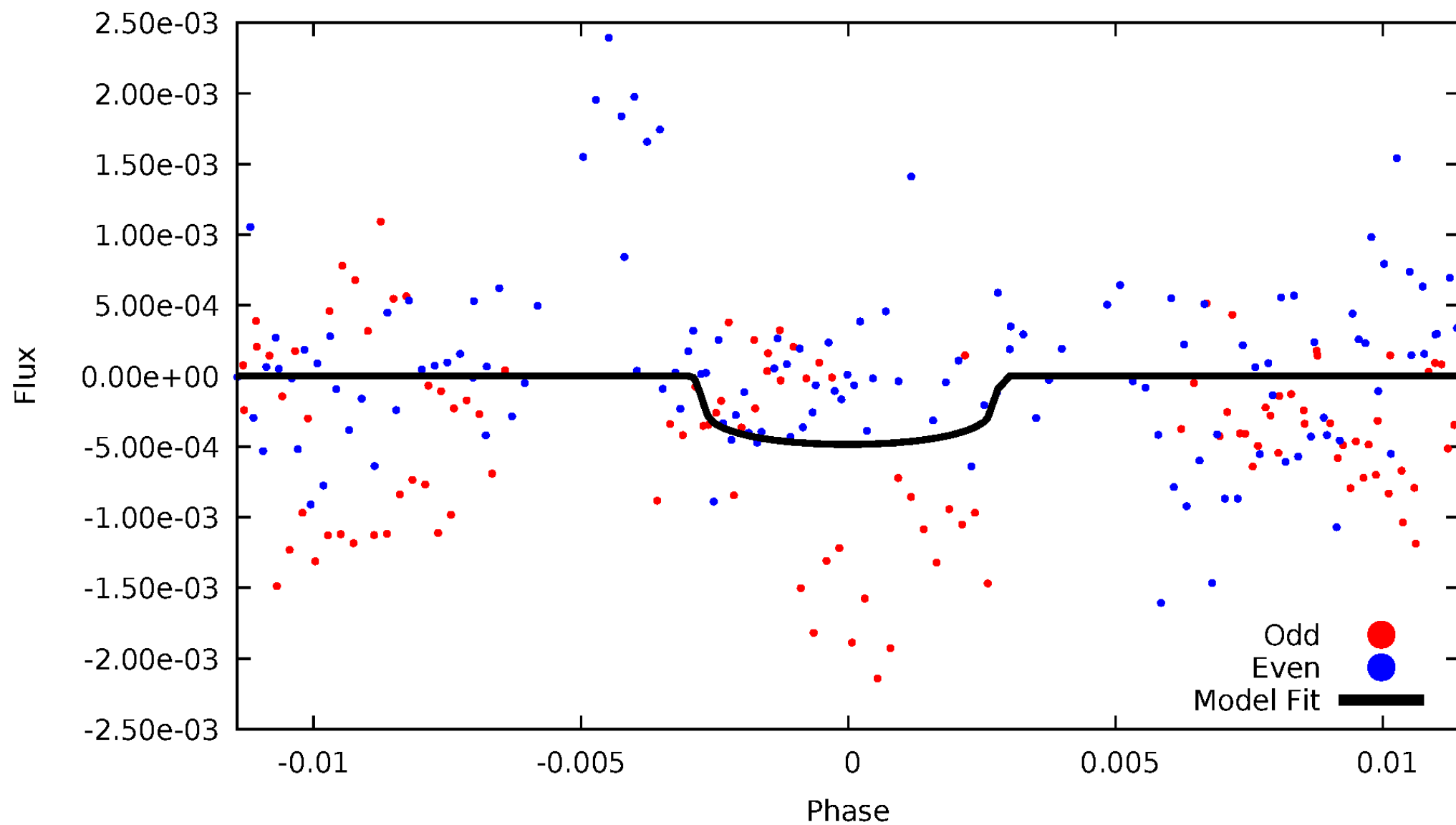


TCE 005879574-04



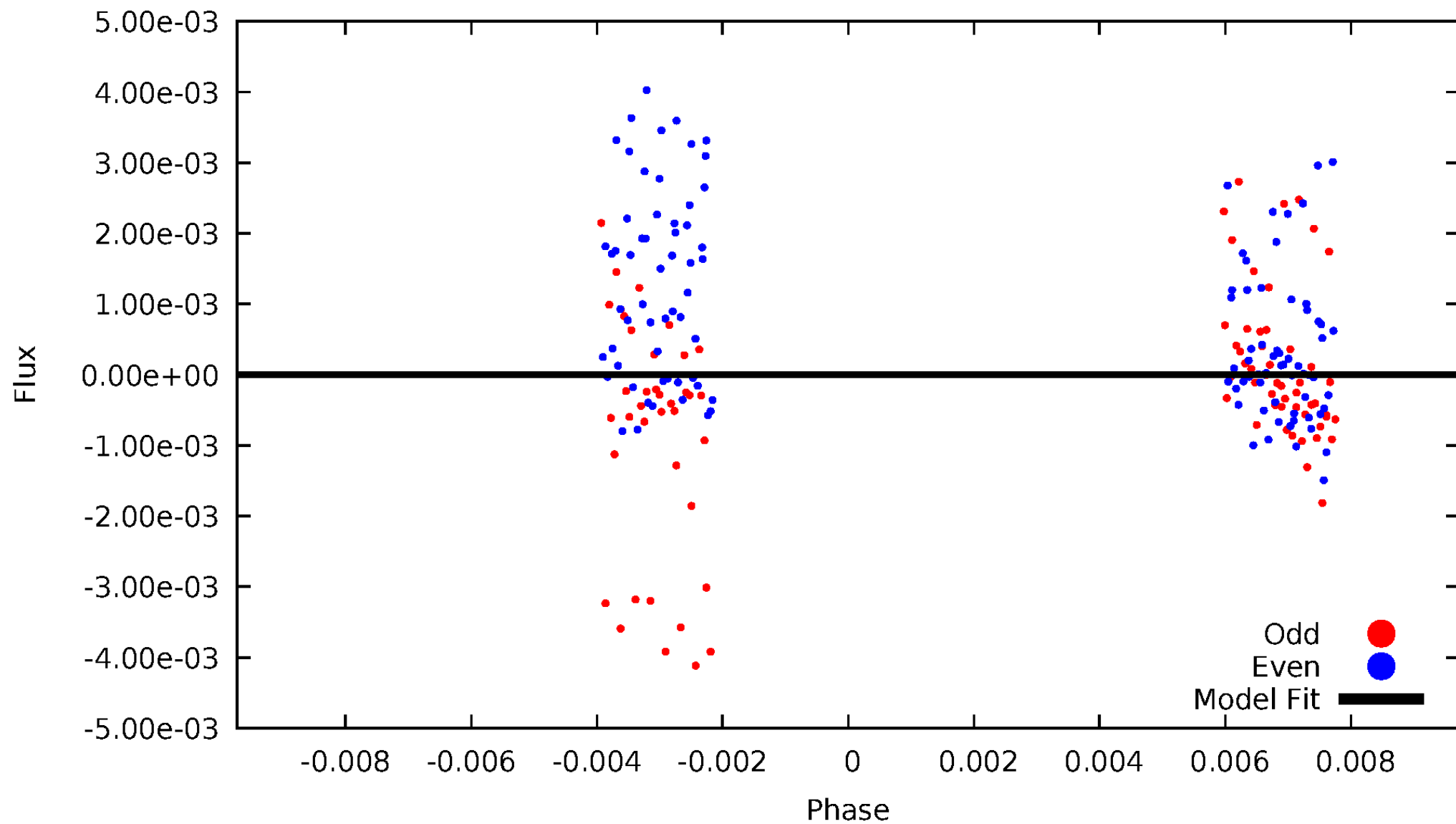
DV Odd/Even

TCE 005879574-04



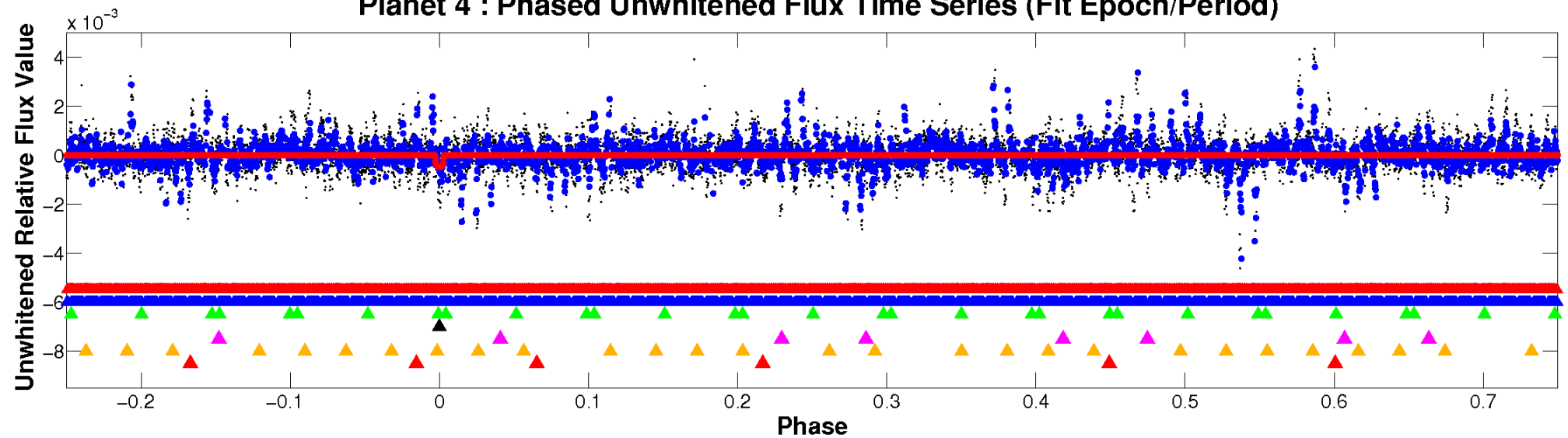
ALT Odd/Even

TCE 005879574-04

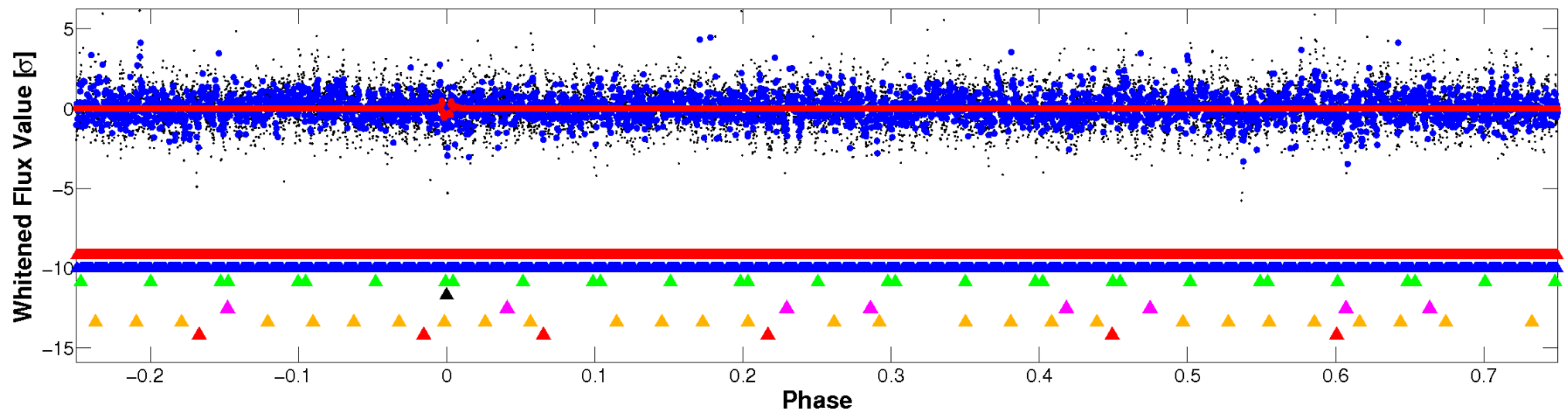


Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

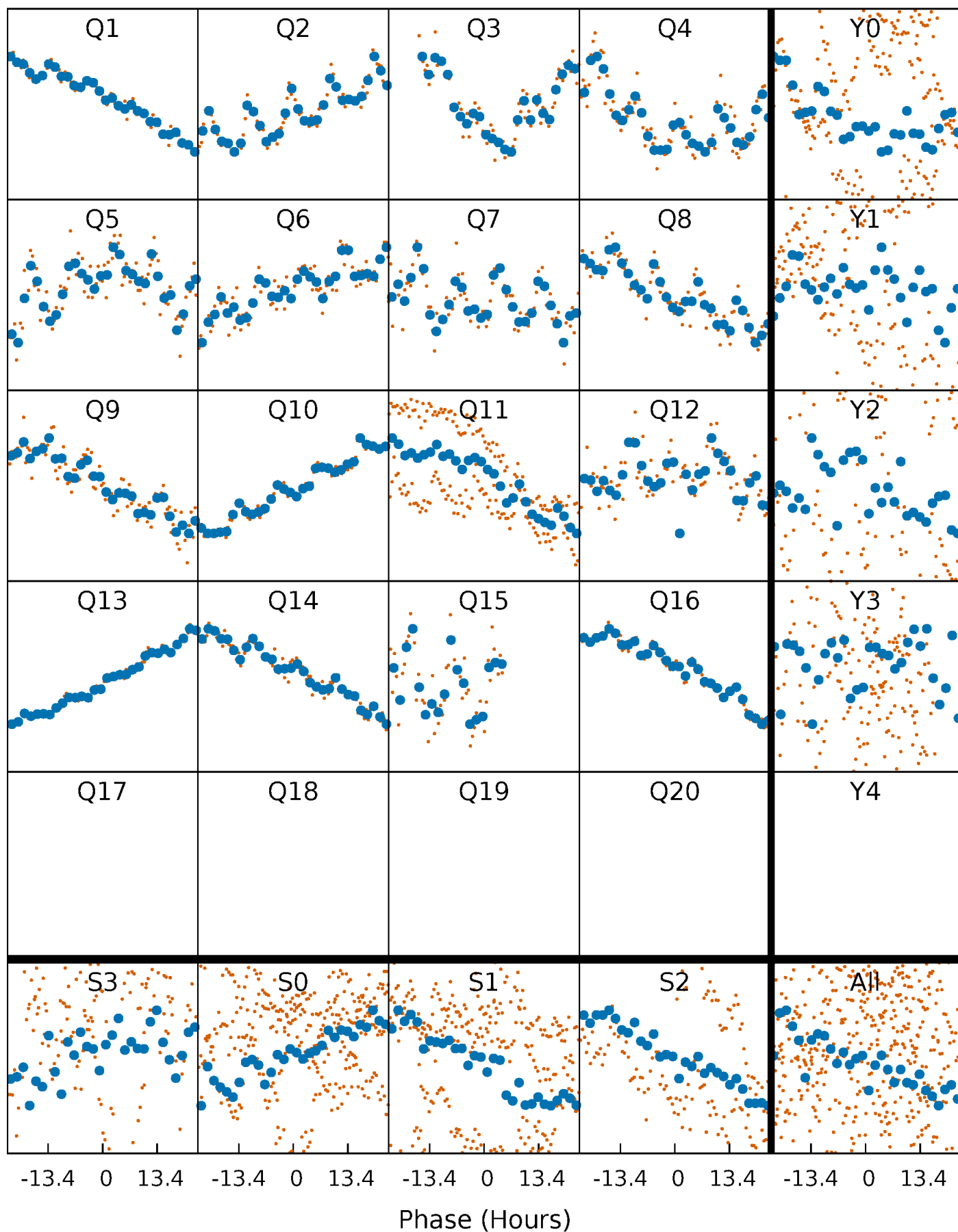


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



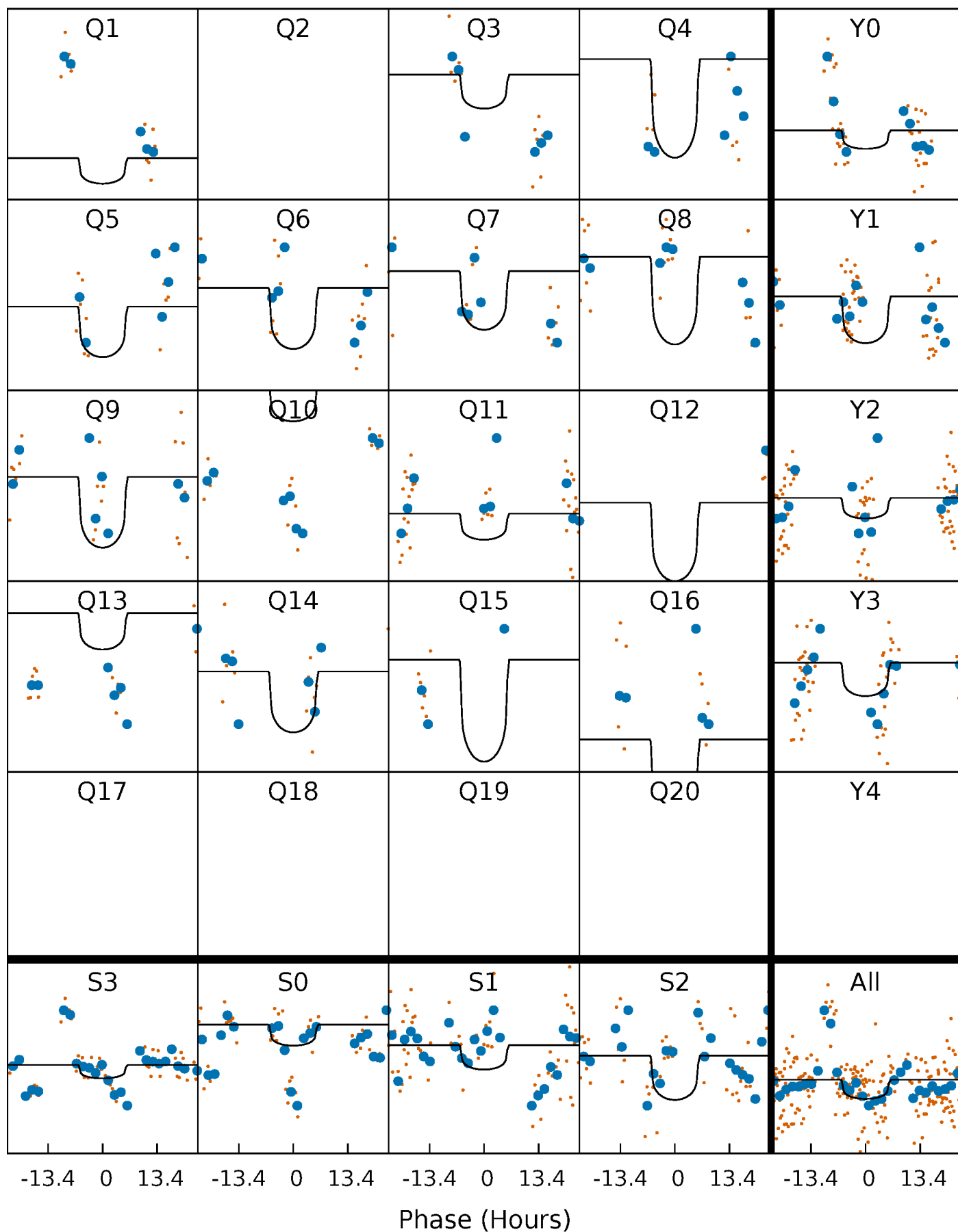
PDC Quarter-Phased Transit Curves

TCE 005879574-04 P= 85.460142 Days $T_0=153.290330$ (BKJD)



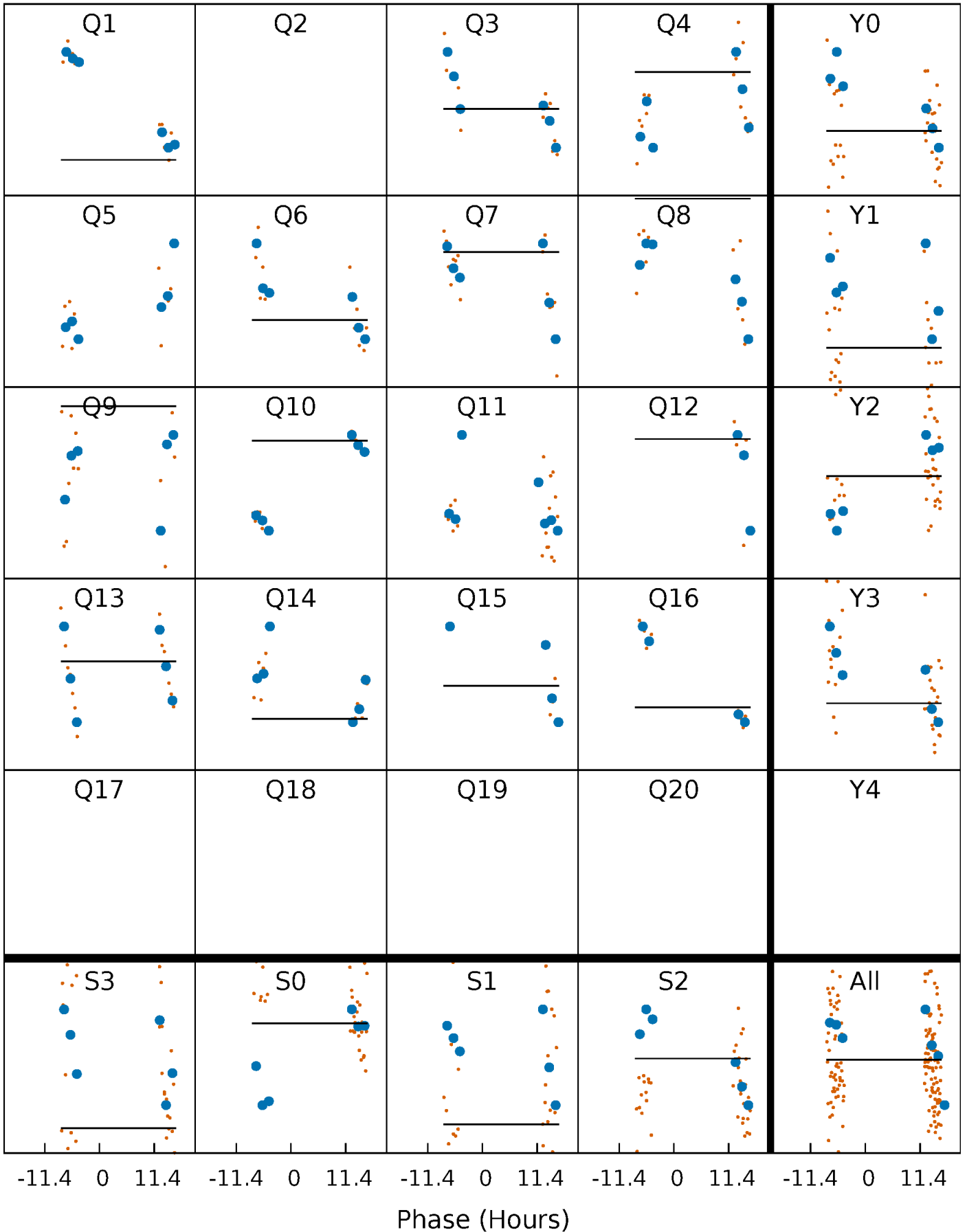
DV Quarter-Phased Transit Curves

TCE 005879574-04 P= 85.460142 Days $T_0=153.290330$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

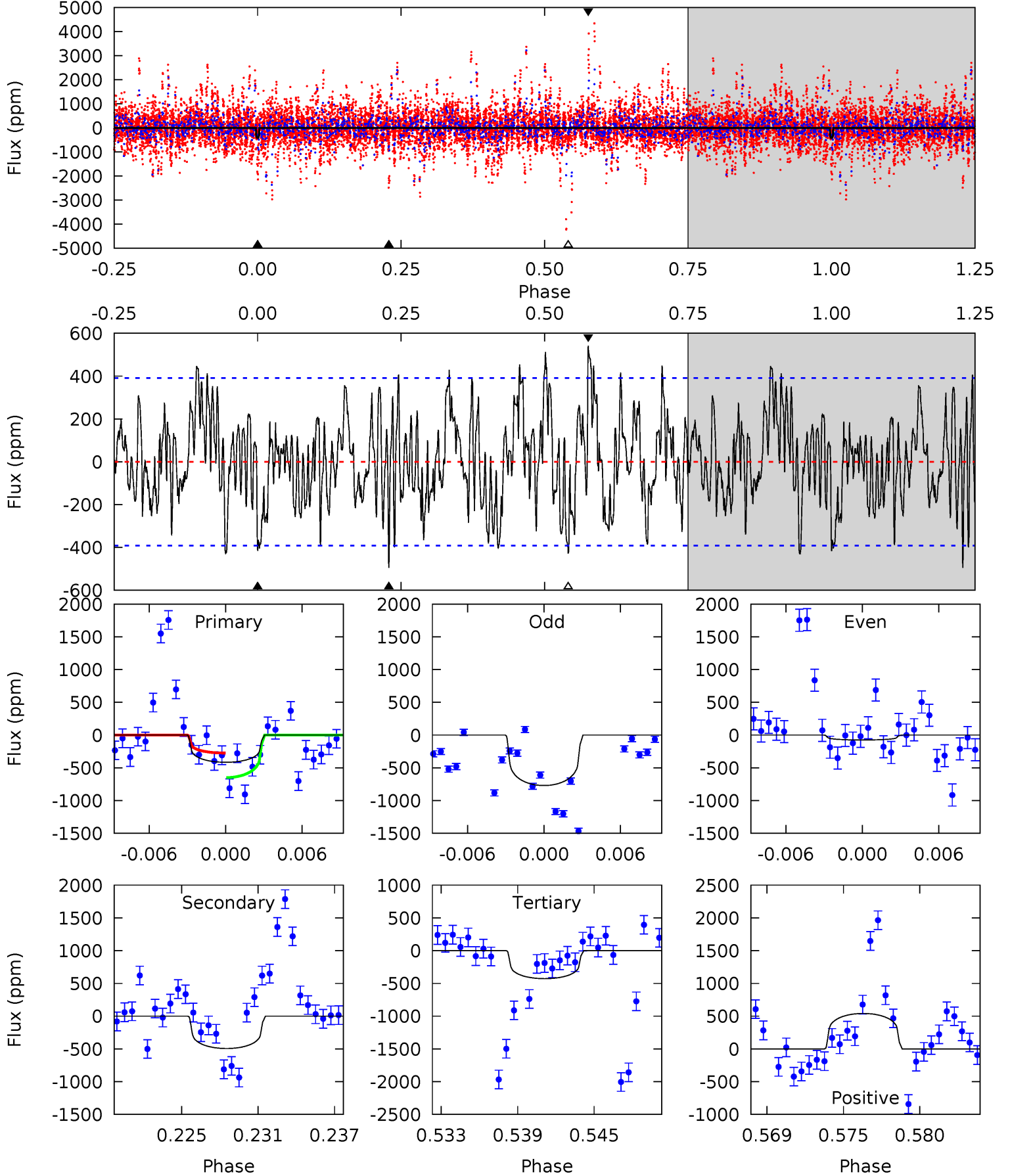
TCE 005879574-04 $P = 85.500456$ Days $T_0 = 153.182032$ (BKJD)



DV Model-Shift Uniqueness Test

005879574-04, P = 85.460142 Days, E = 67.830188 Days

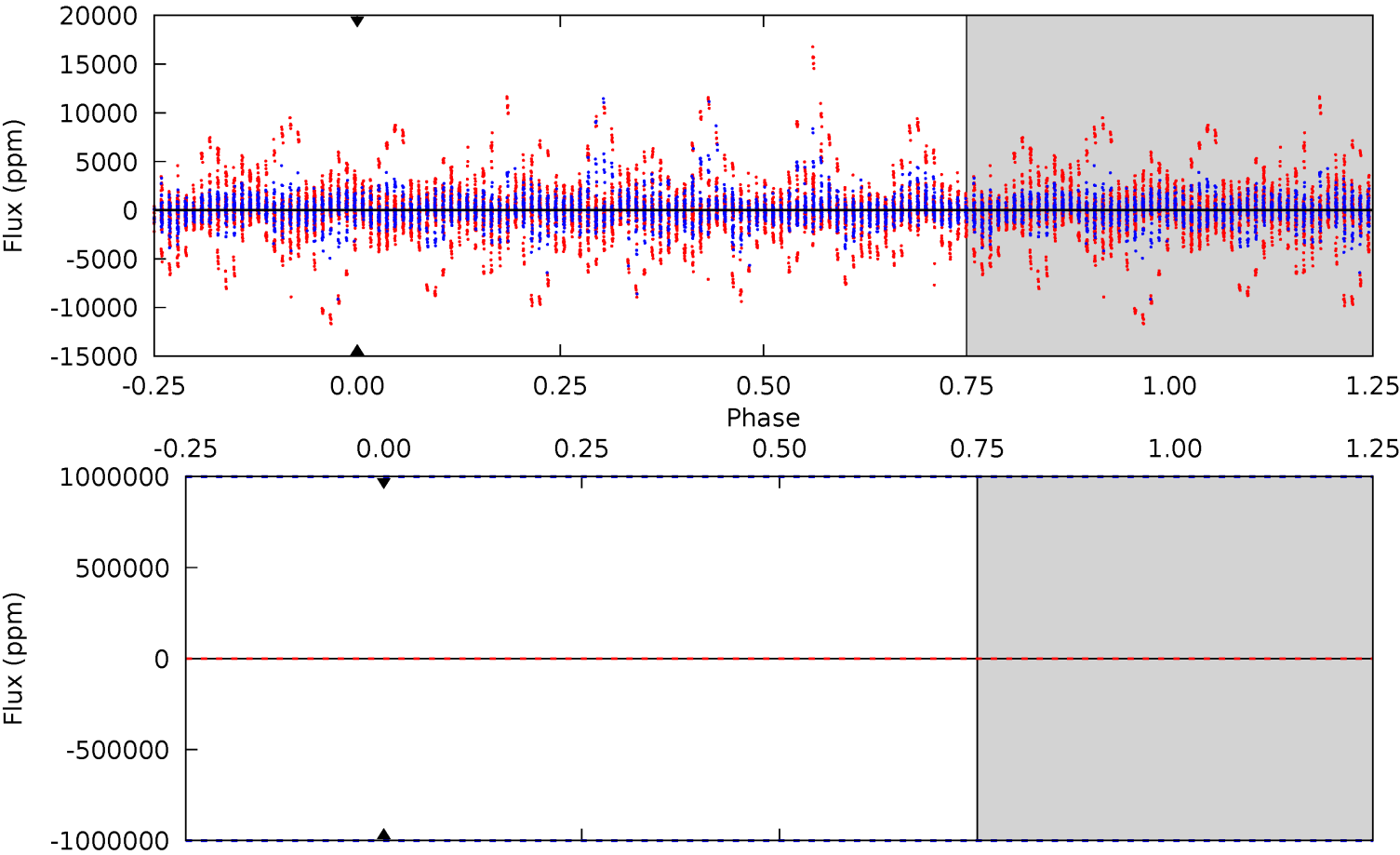
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.46	6.48	5.61	7.09	5.13	2.75	2.39	-0.16	-1.64	0.87	-0.61	4.48	2.01	0.52	2.39



Alt Model-Shift Uniqueness Test

005879574-04, P = 85.500456 Days, E = 67.681576 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



Stellar Parameters For KIC 005879574

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5767^{+156}_{-190}	$4.538^{+0.036}_{-0.204}$	$-0.060^{+0.250}_{-0.300}$	$0.881^{+0.258}_{-0.086}$	$0.979^{+0.102}_{-0.125}$	$2.017^{+0.400}_{-1.030}$
	+3%/-3%	+1%/-4%	+417%/-500%	+29%/-10%	+10%/-13%	+20%/-51%
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 005879574-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-494 ± 76	$2.44^{+1.97}_{-1.55}$	555^{+39}_{-24}	5543^{+4283}_{-1217}	6325^{+40264}_{-4418}
Alt.	0 ± 1000000	$4.03^{+2.09}_{-2.03}$	558^{+36}_{-27}	6329^{+37996}_{-45277}	$12776^{+709104}_{-630614}$

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 $A_{obs} \gg 1.0$

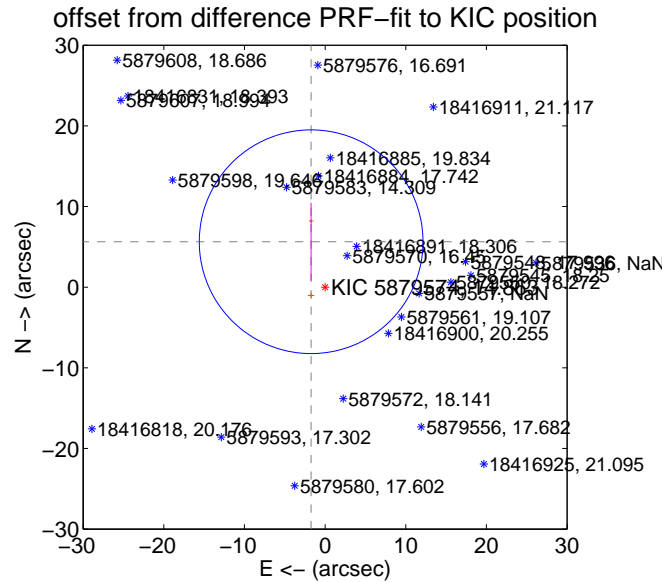
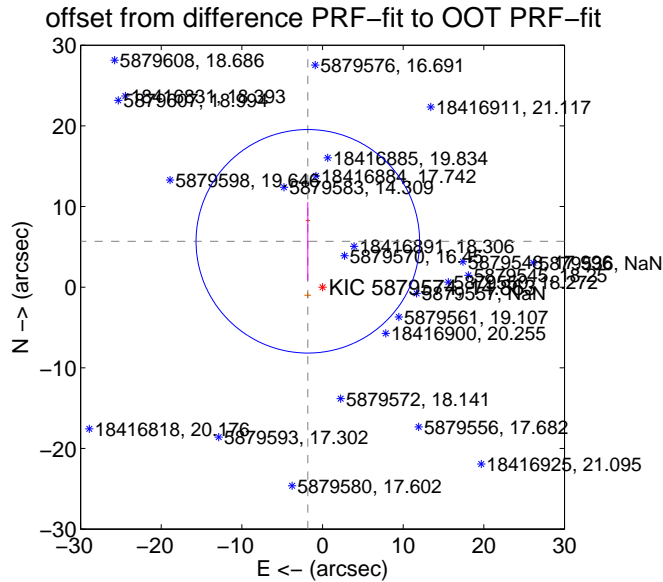
DV Centroid Data

Supplemental centroid analysis for 005879574-04. Kepler magnitude: 14.86. Transit SNR 3.93

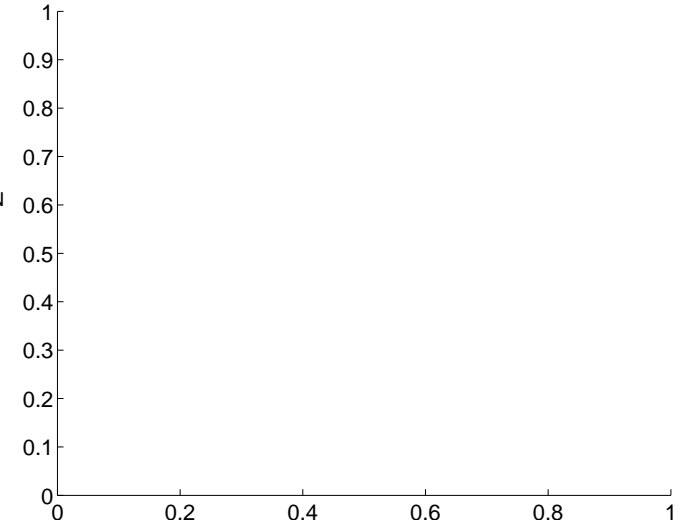
There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.972 ± 4.619	1.29	1.821 ± 0.068	5.687 ± 4.850
PRF-fit source offset from KIC position	5.893 ± 4.623	1.27	1.733 ± 0.067	5.633 ± 4.837
photometric centroid source offset	—	—	—	—

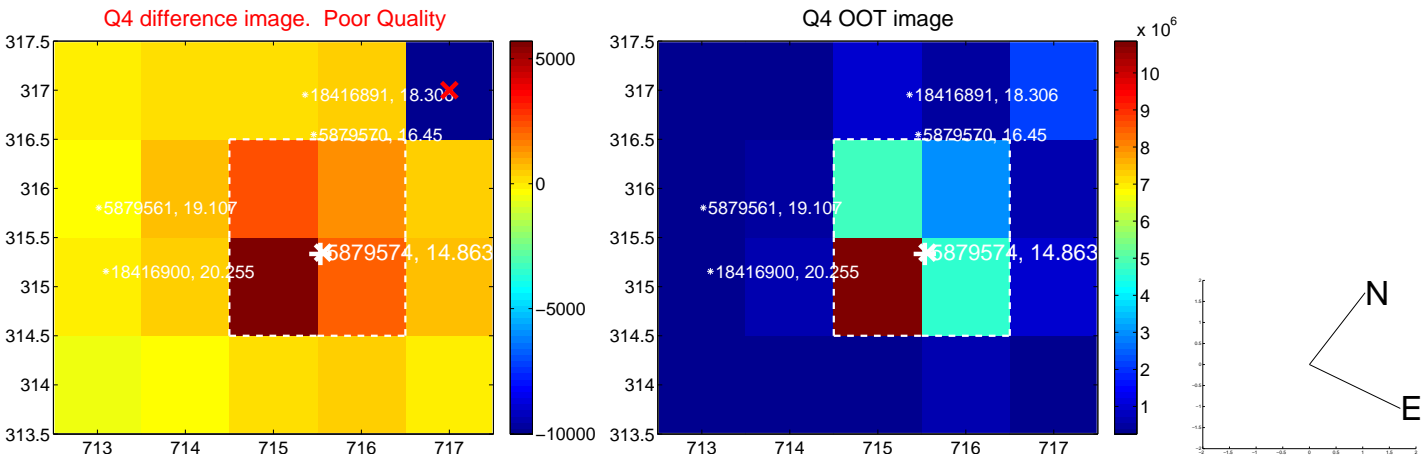
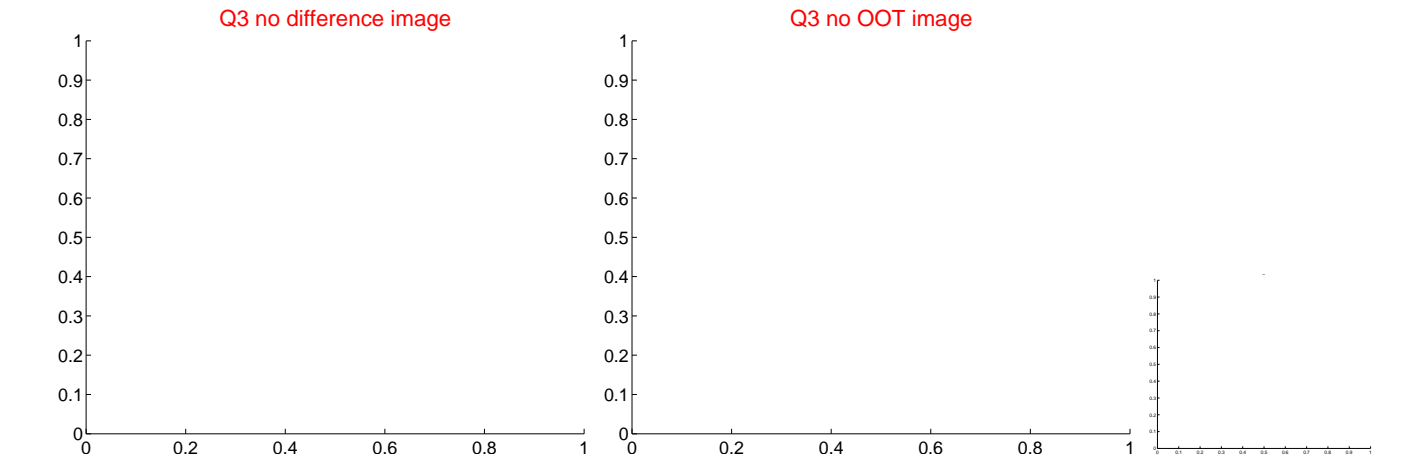
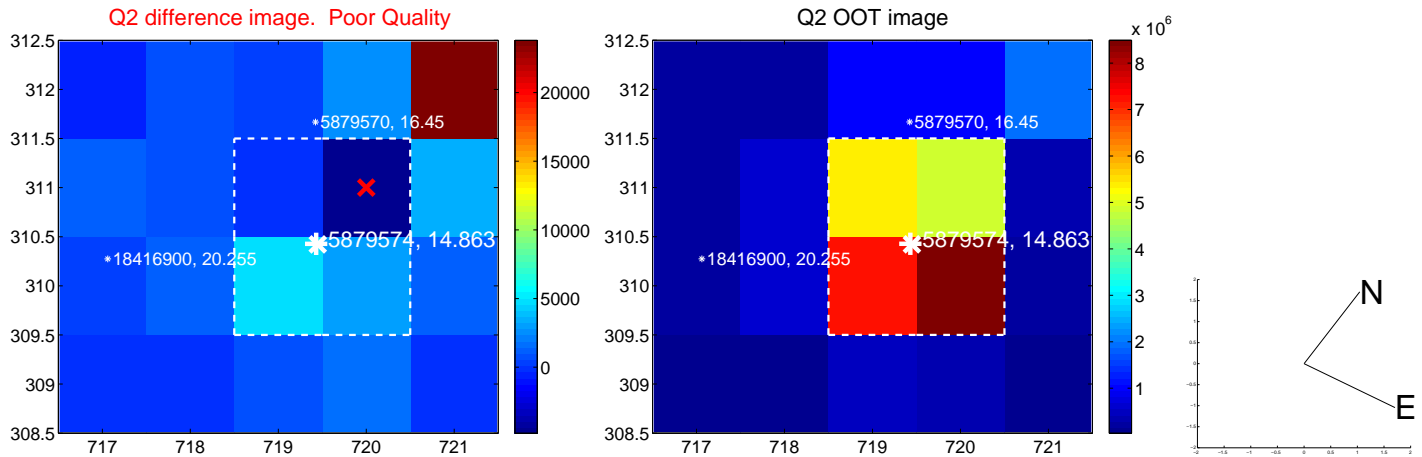
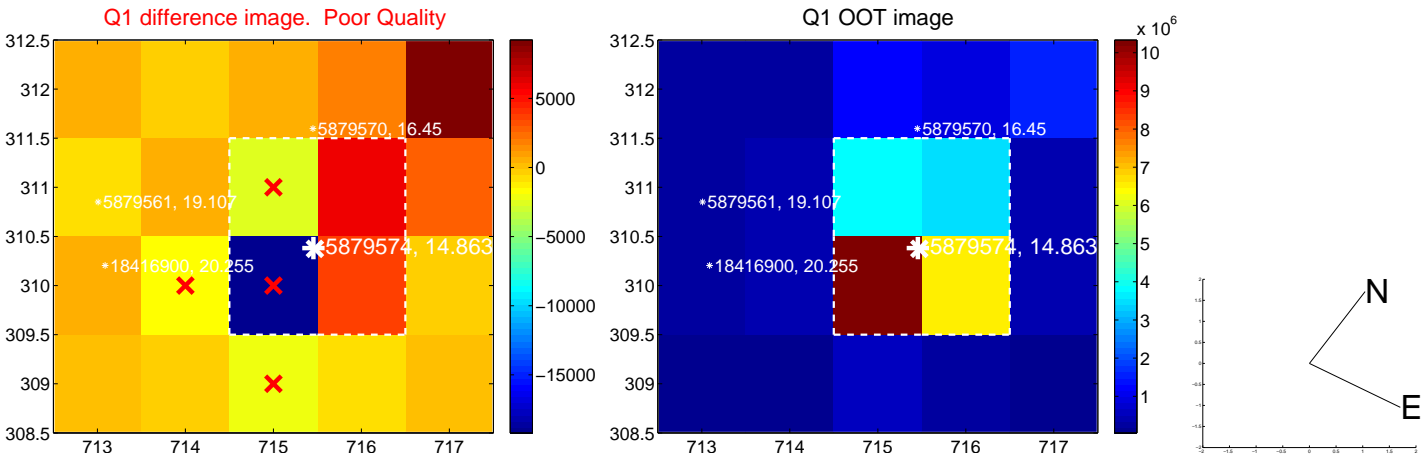


There are no photometric centroids

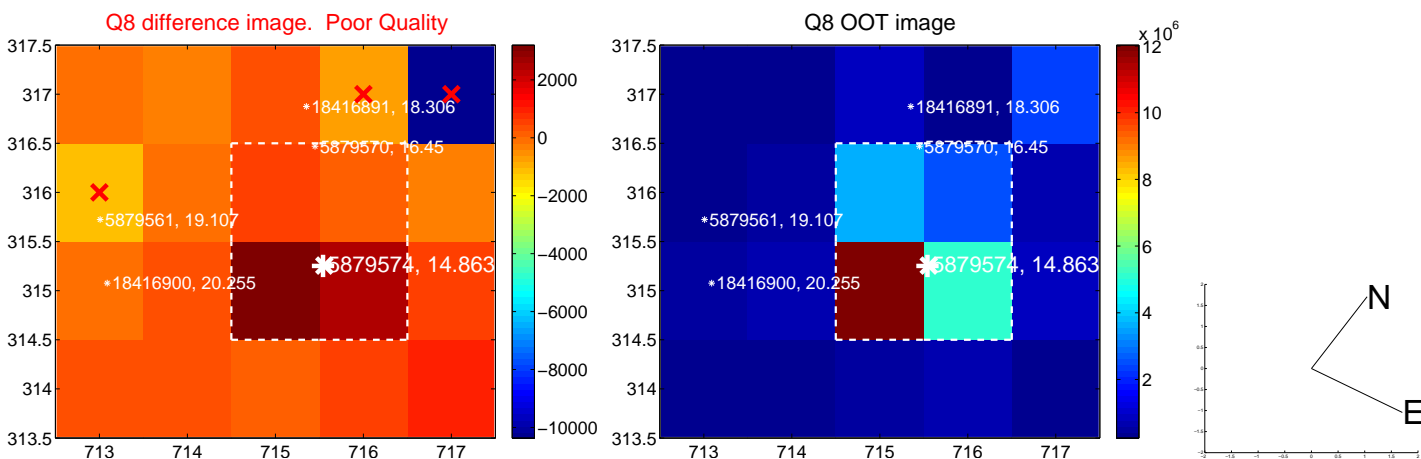
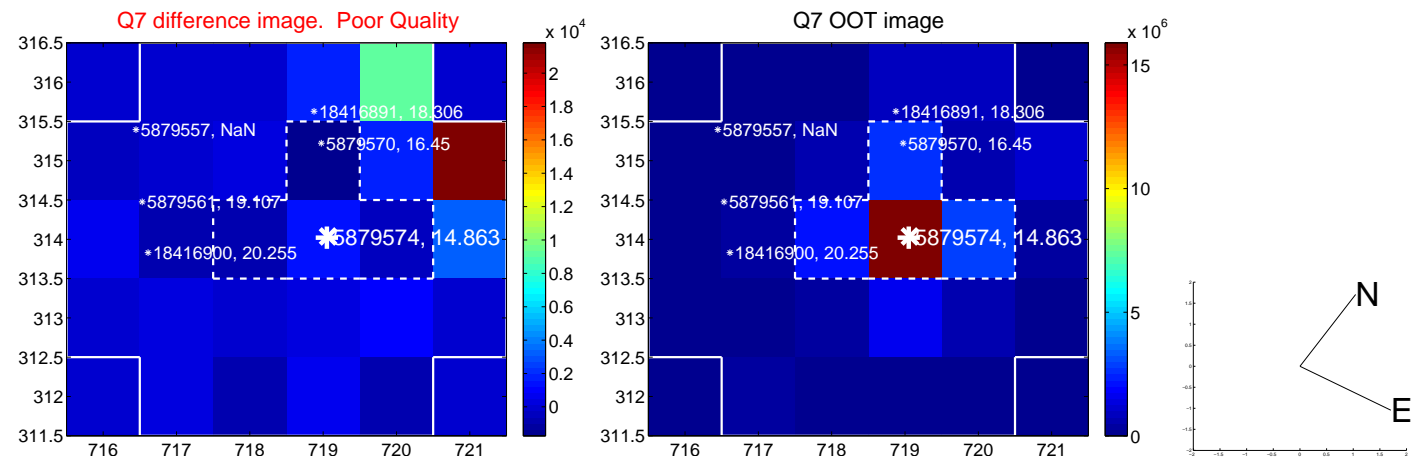
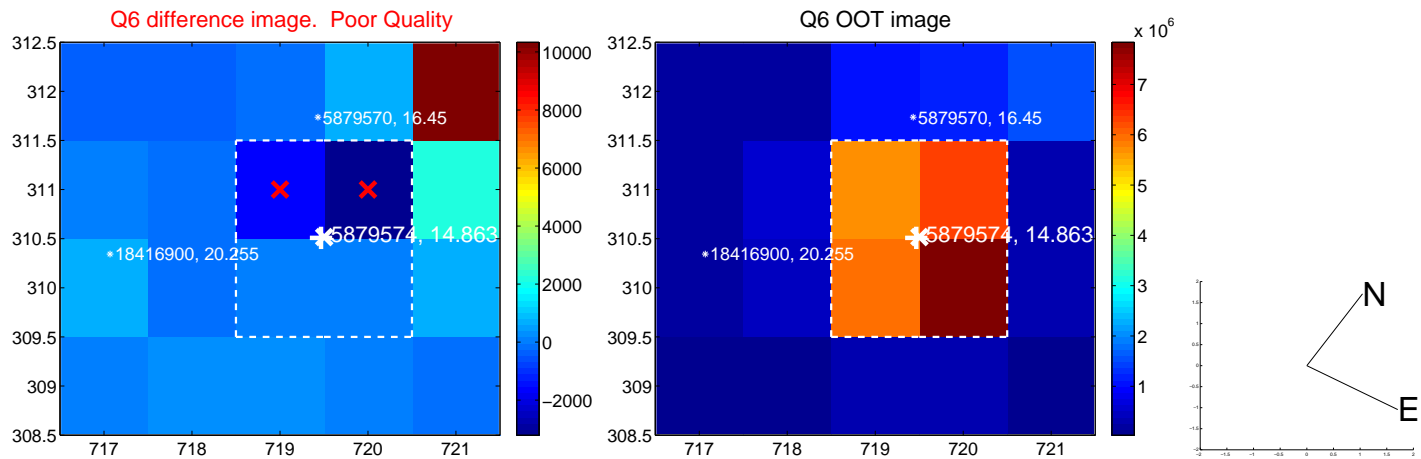
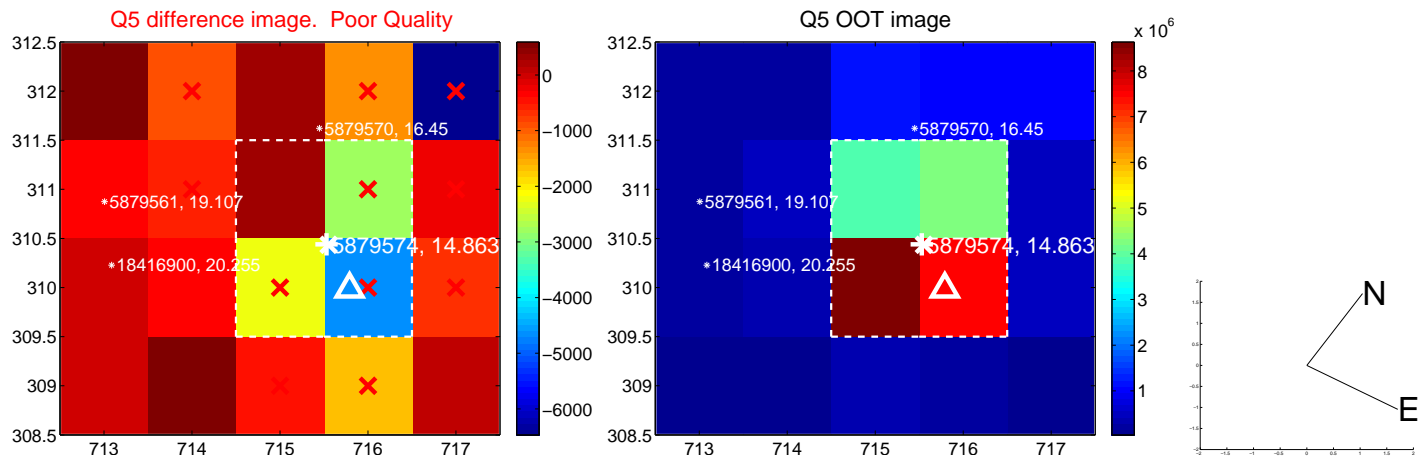


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

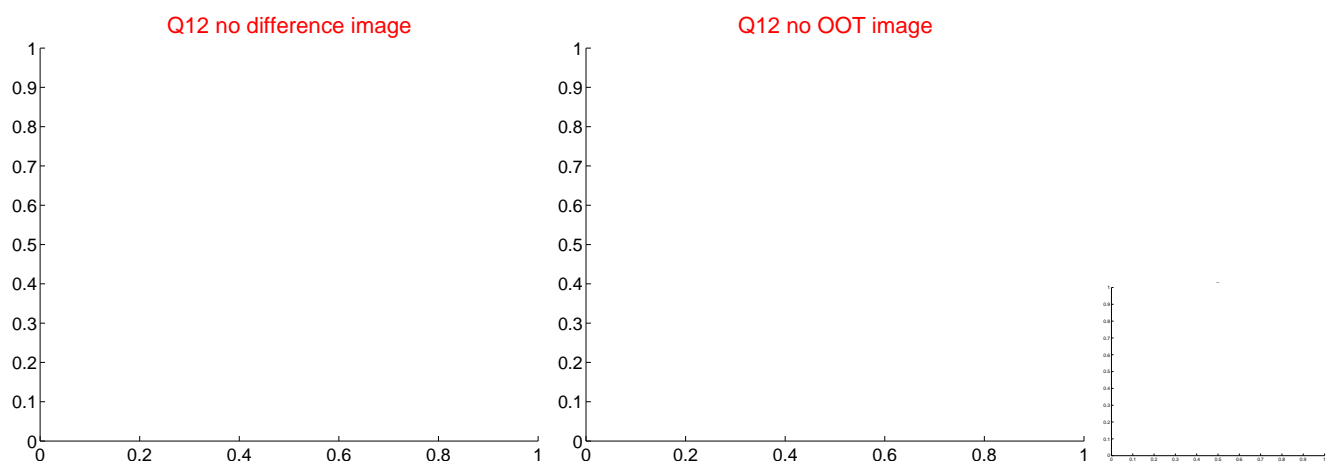
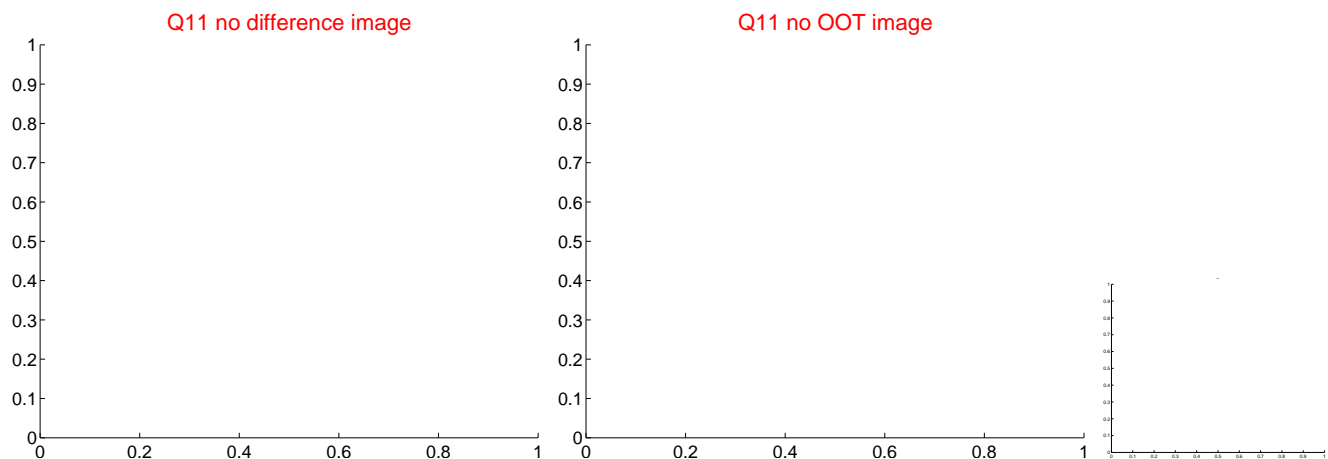
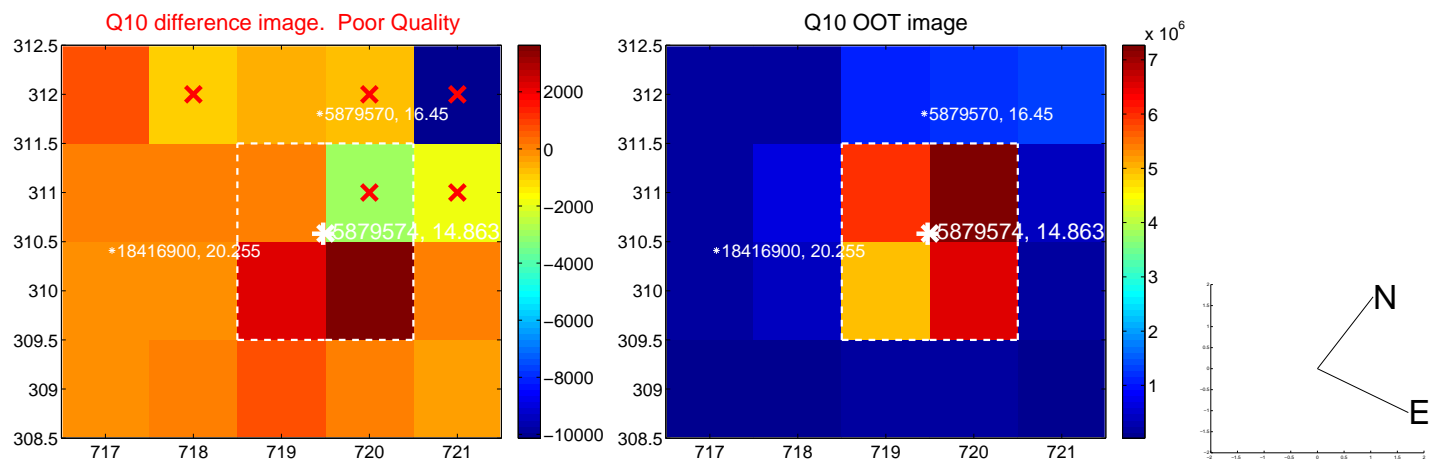
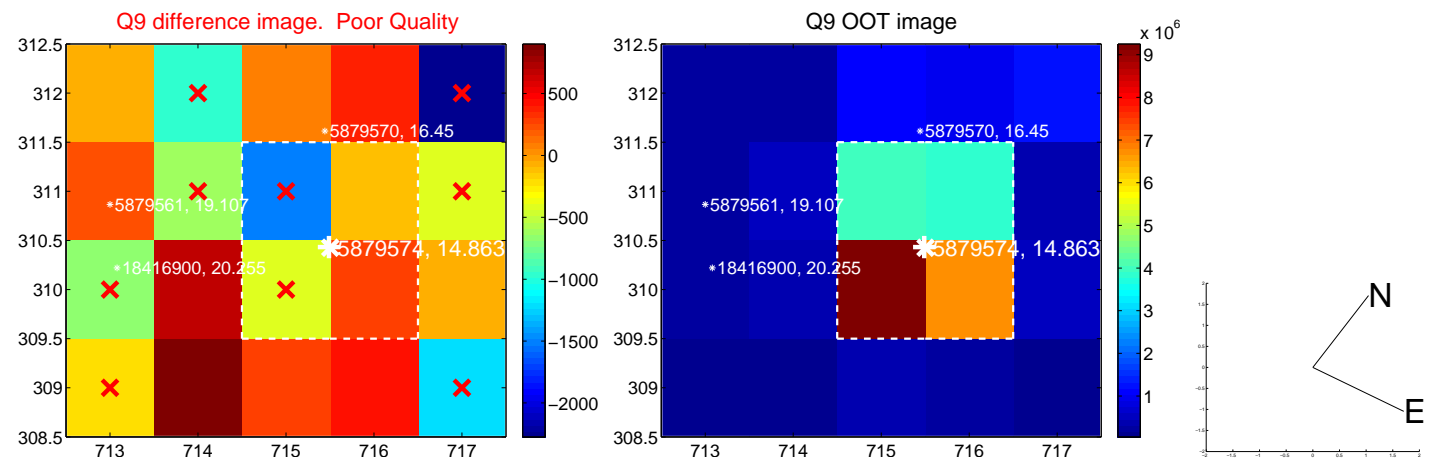
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



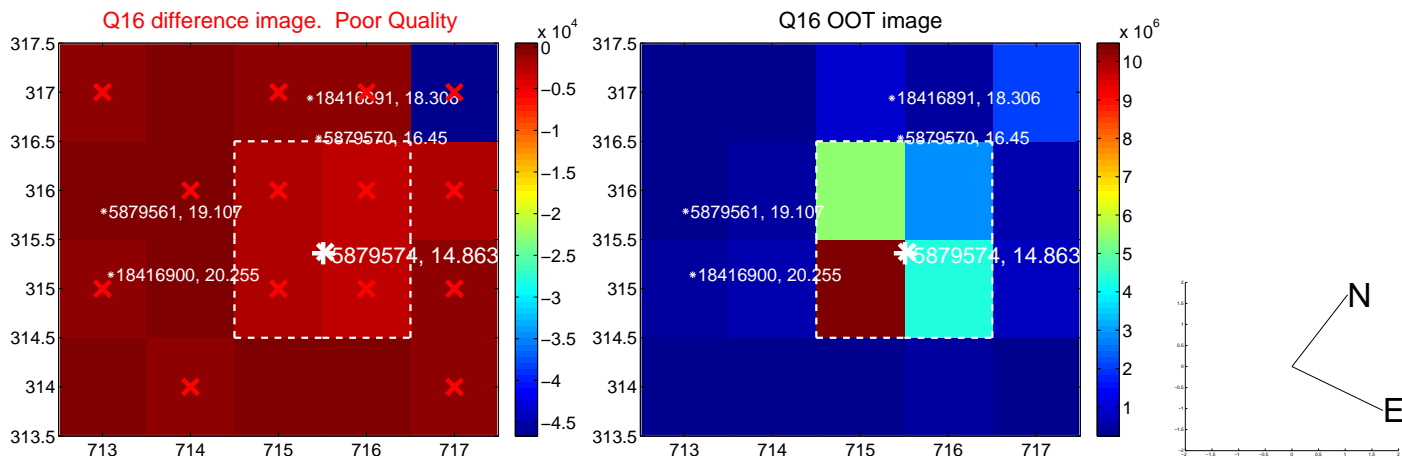
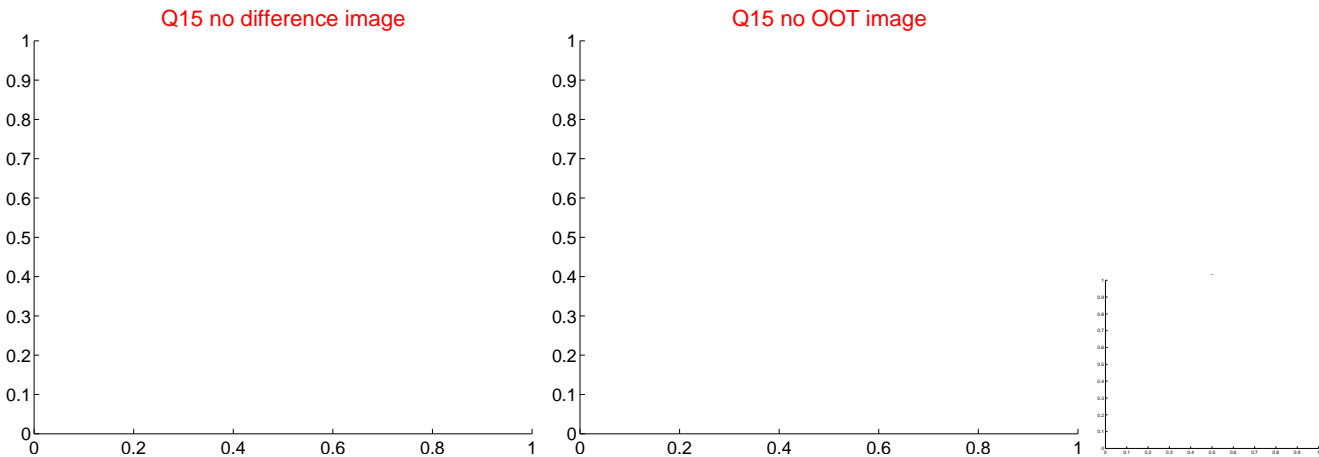
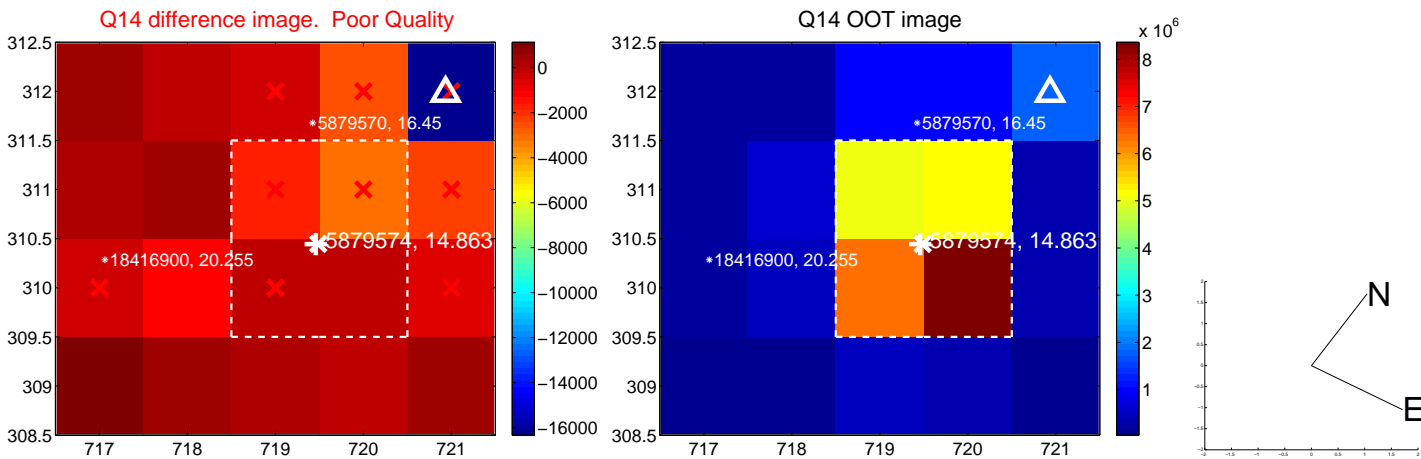
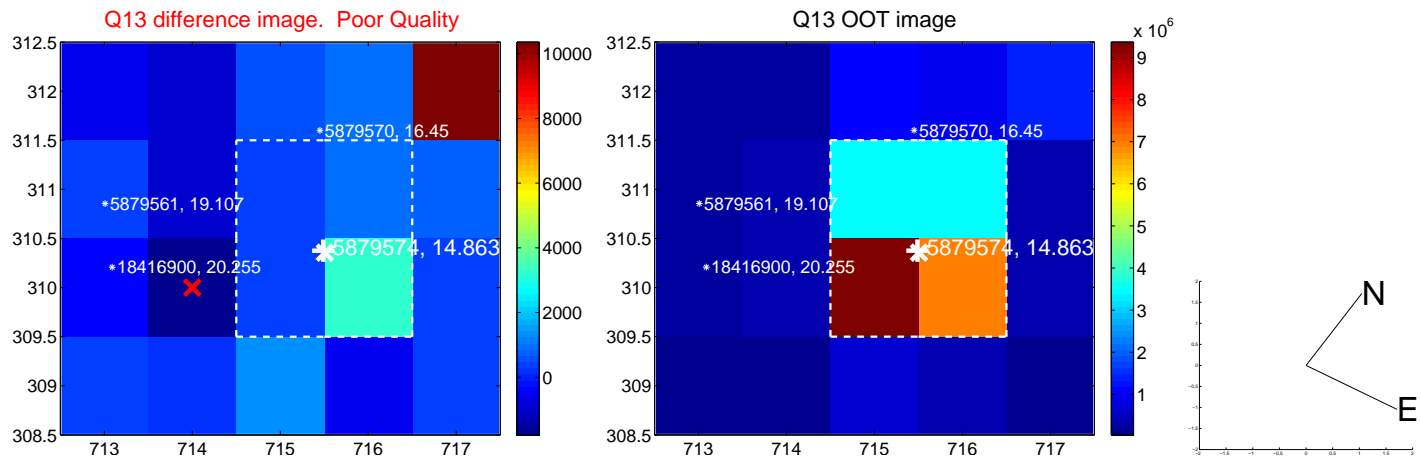
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white ×: 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.



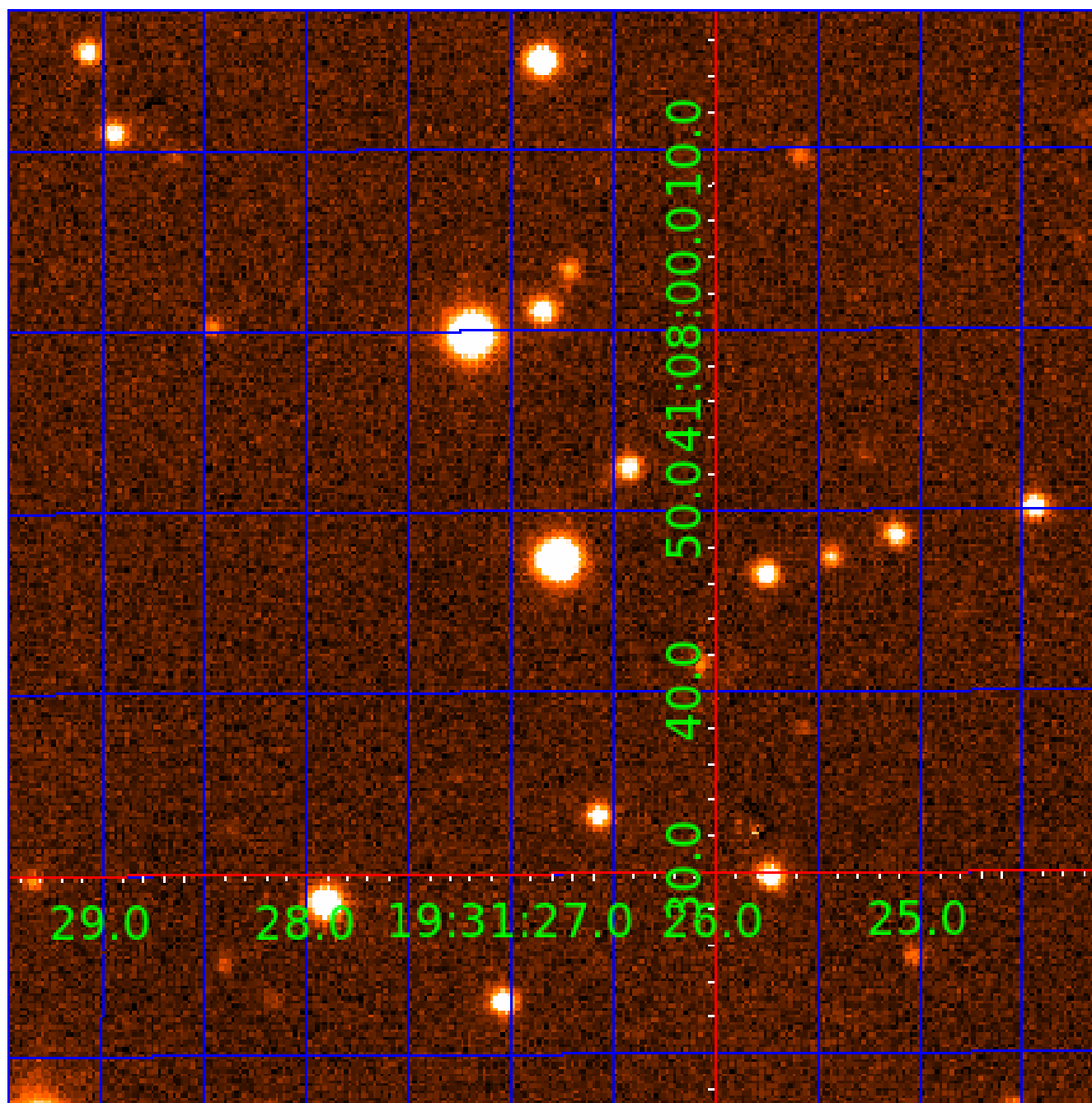
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 005879574

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})
005879574-01	OBS	No	0.846726	132.151481	15.7	1.378	8.3	2.3	0.88	5767	0.41	2545.00
005879574-02	OBS	No	0.846537	132.183489	33.6	5.398	8.3	5.9	0.88	5767	0.53	2545.76
005879574-04	OBS	No	85.460142	153.290330	484.4	11.724	14.9	3.9	0.88	5767	2.03	5.42
005879574-06	OBS	No	52.791700	147.940220	753.7	11.647	10.4	6.7	0.88	5767	2.97	10.29
005879574-07	OBS	No	223.577114	322.892776	1710.2	14.338	9.7	6.3	0.88	5767	6.98	1.50

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005879574-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET
005879574-02	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_RESOLVED_OFFSET
005879574-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005879574-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET
005879574-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

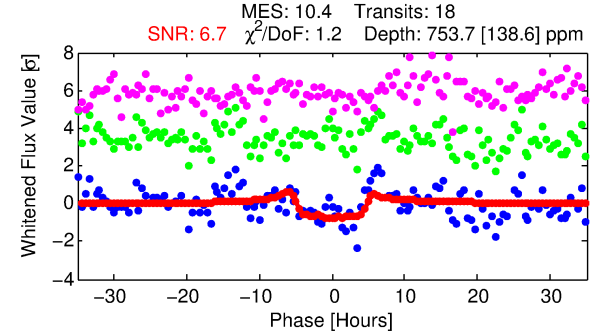
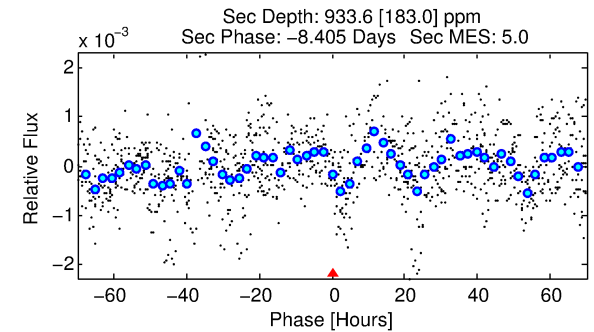
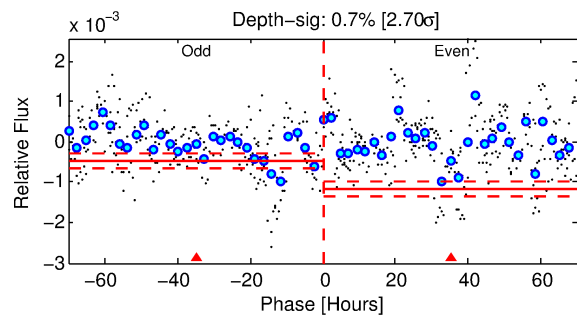
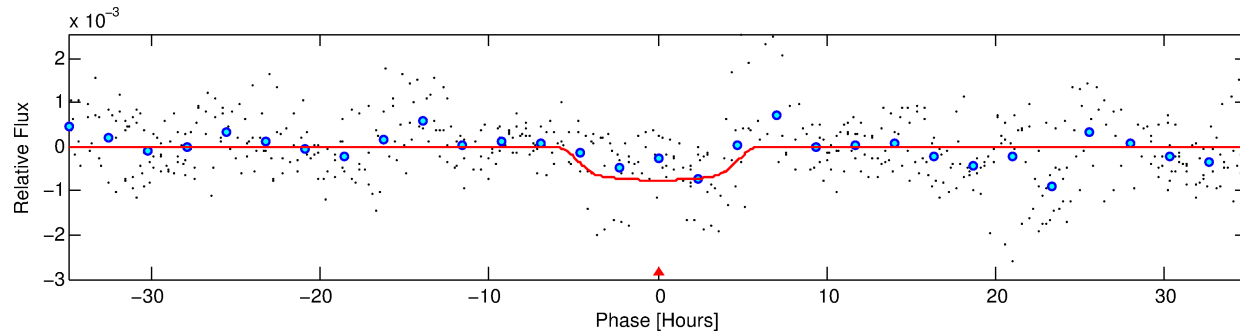
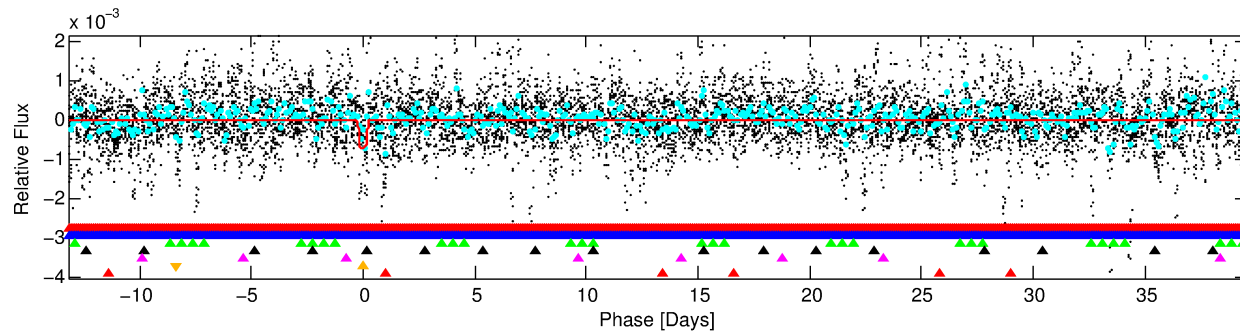
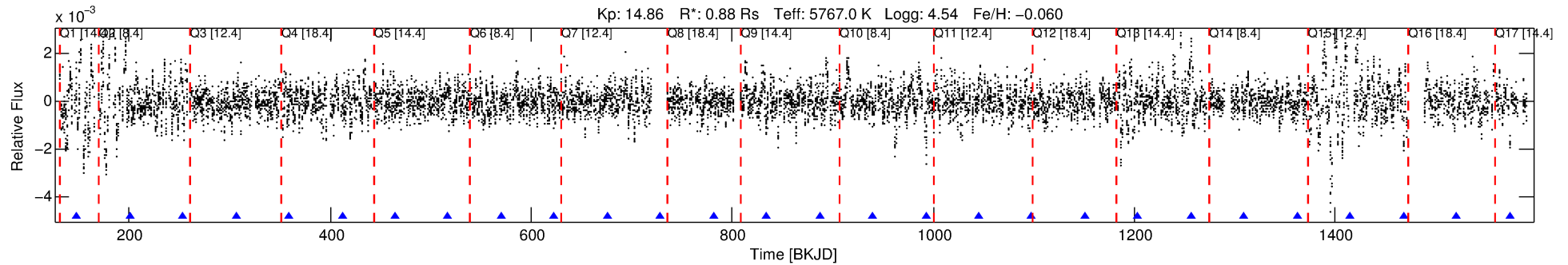
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005879574-06

No Significant Match Found

DV One-Page Summary

KIC: 5879574 Candidate: 6 of 7 Period: 52.792 d



DV Fit Results:

Period = 52.79170 [0.00217] d
Epoch = 147.9402 [0.0269] BKJD
Rp/R* = 0.0309 [0.0037]
a/R* = 15.58 [4.61]
b = 0.93 [0.05]
Seff = 10.29 [4.03]
Teq = 457 [45] K
Rp = 2.97 [0.94] Re
a = 0.2734 [0.0684] AU
Ag = 4355.76 [2092.38] [2.08σ]
Teffp = 5737 [480] K [10.96σ]

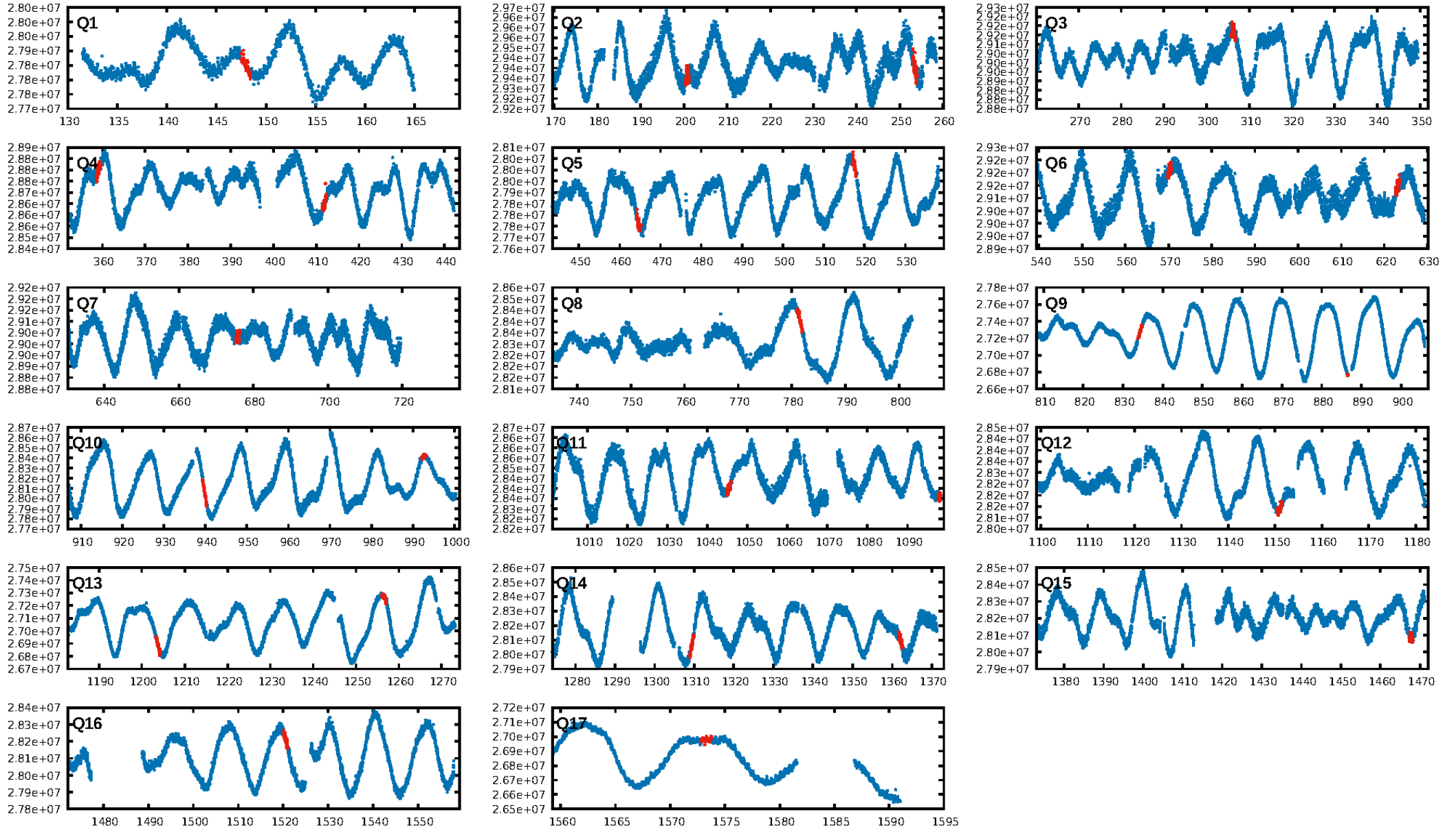
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [7.40σ]
LongPeriod-sig: 100.0% [47.44σ]
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.76e-13
RollingBand-fgt: 1.00 [16/16]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 0.00 [0/17]

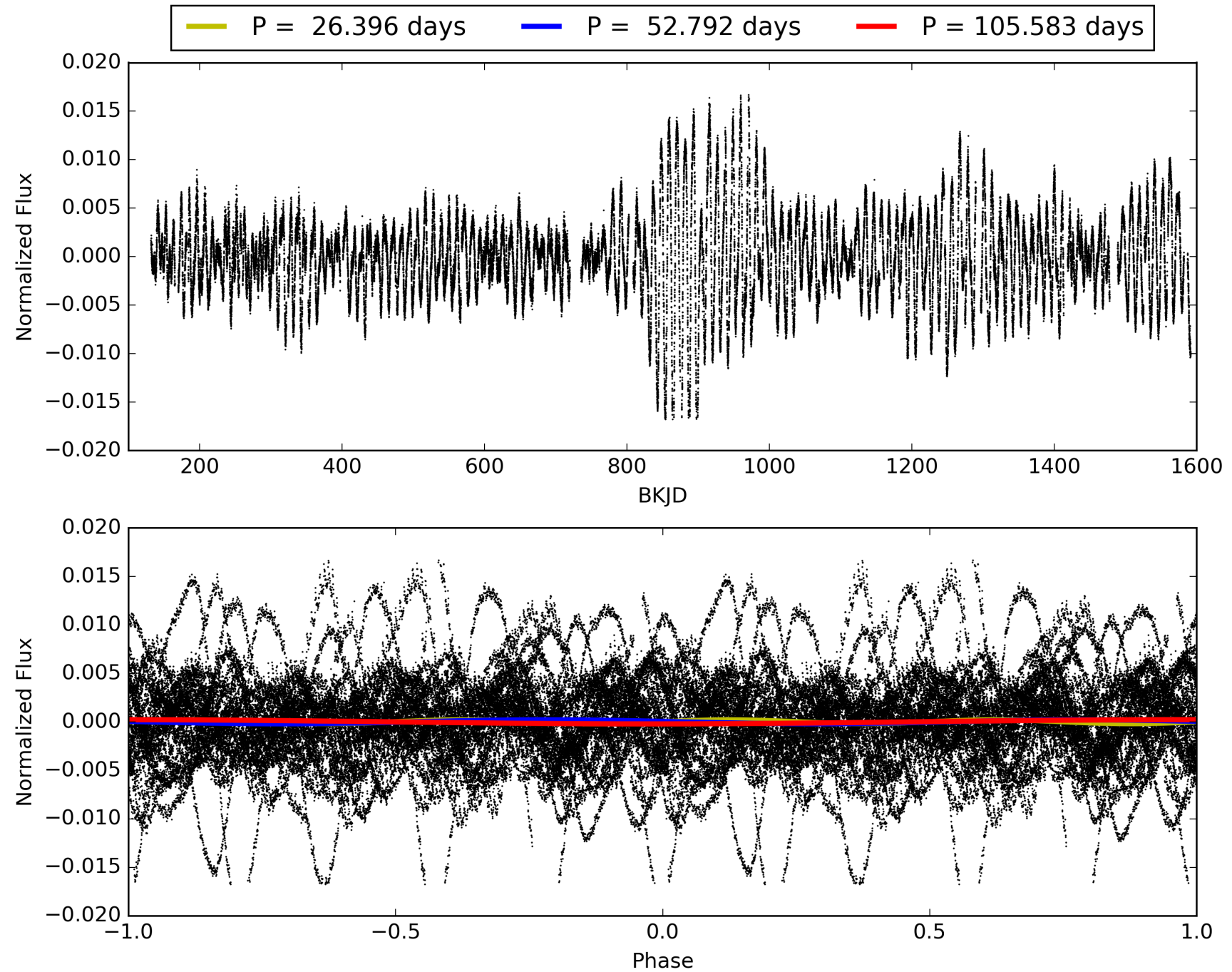
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 06:37:28 Z

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

TCE 005879574-06, PDC Light Curves

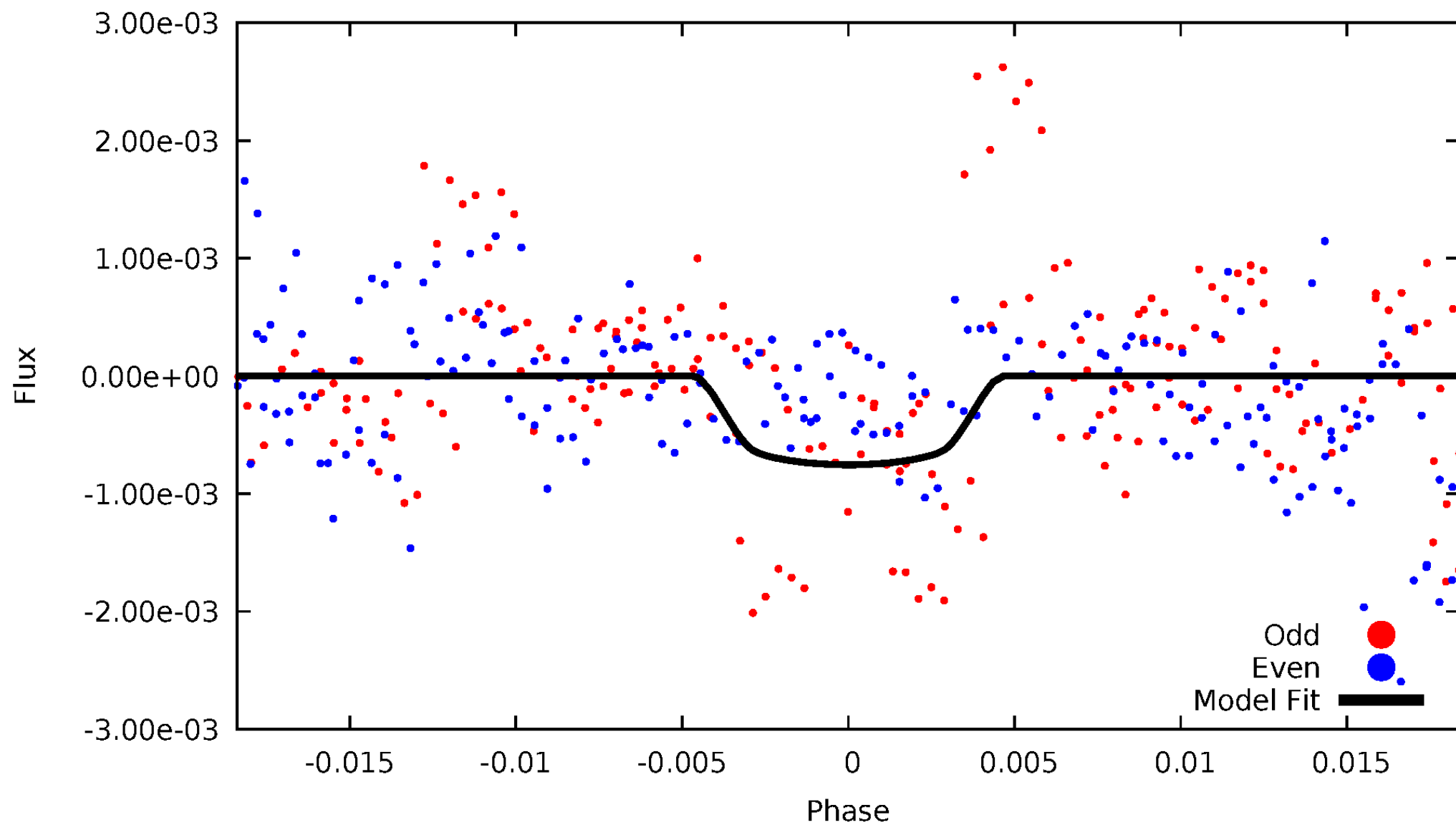


TCE 005879574-06



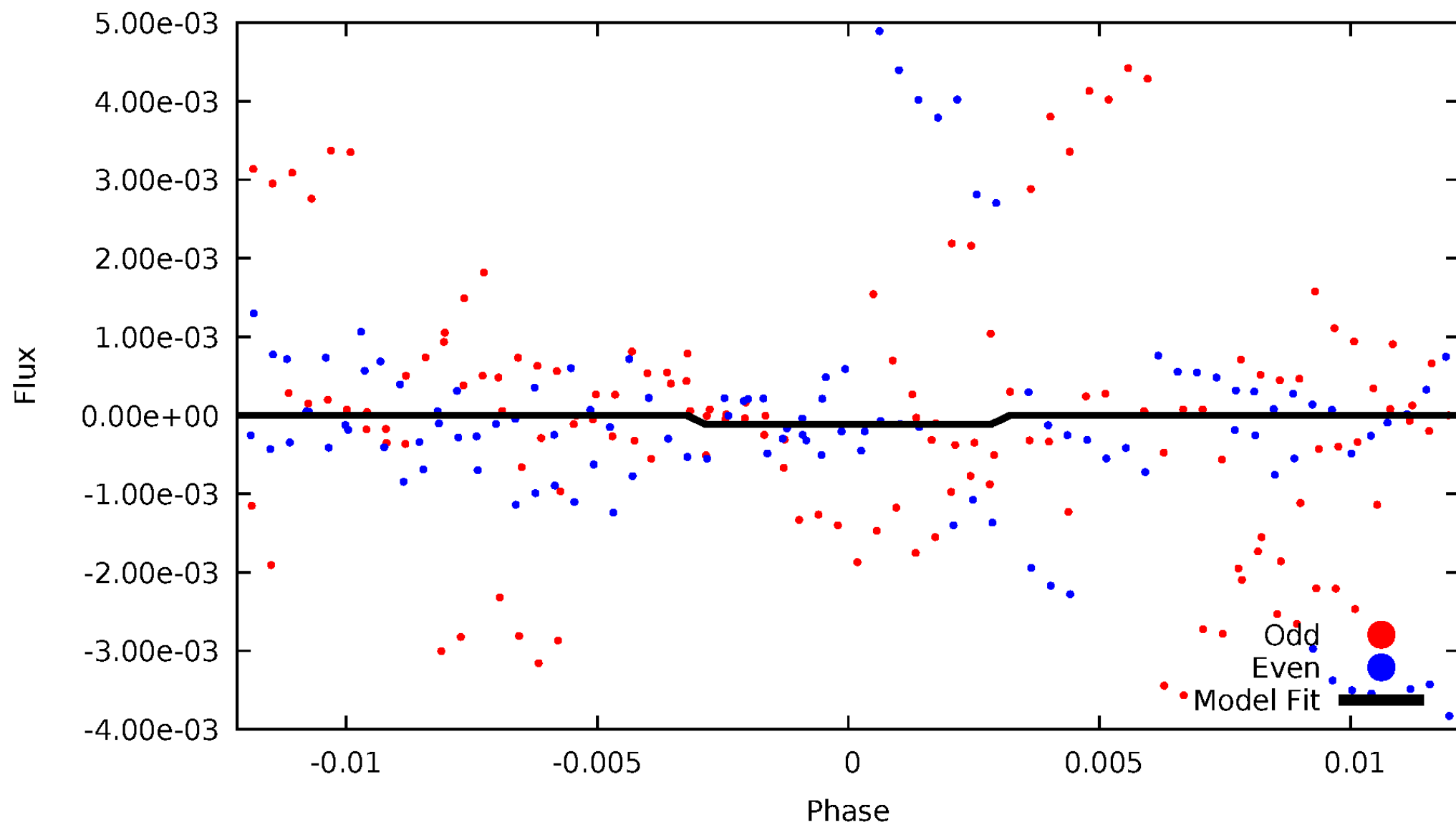
DV Odd/Even

TCE 005879574-06



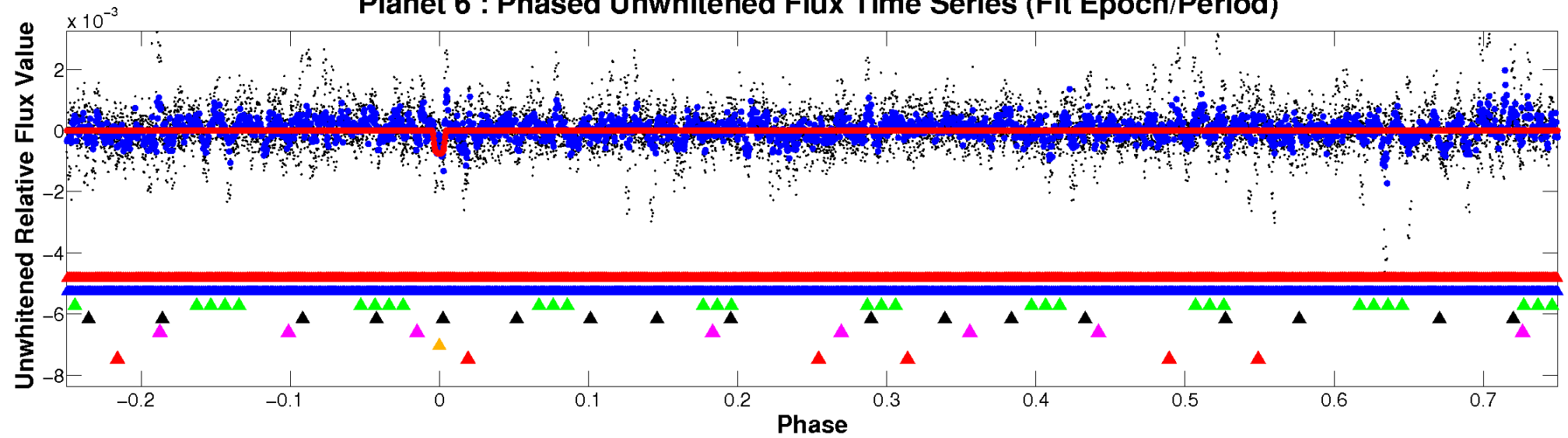
ALT Odd/Even

TCE 005879574-06

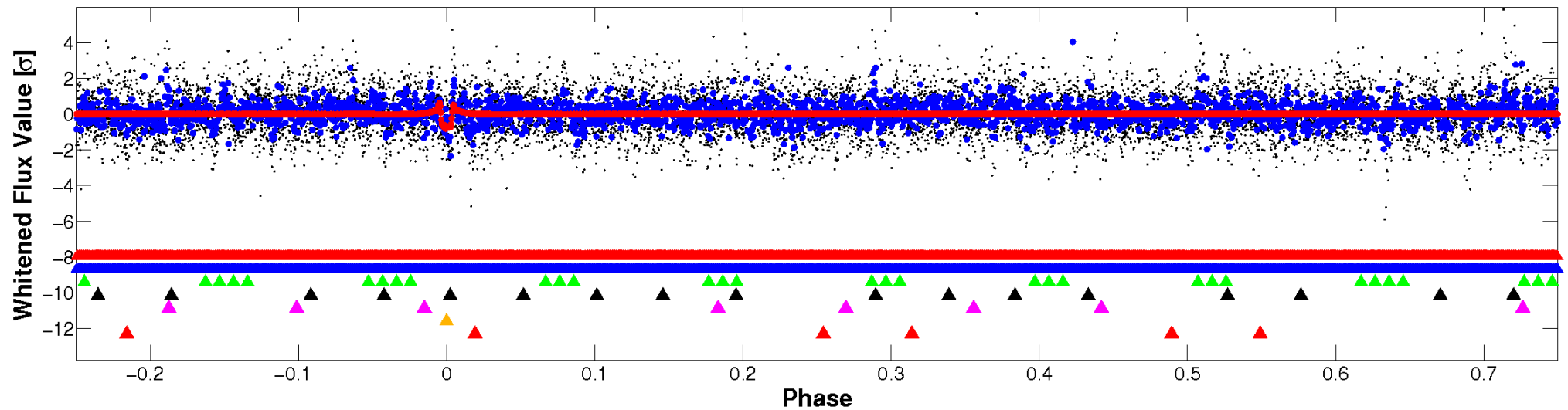


Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

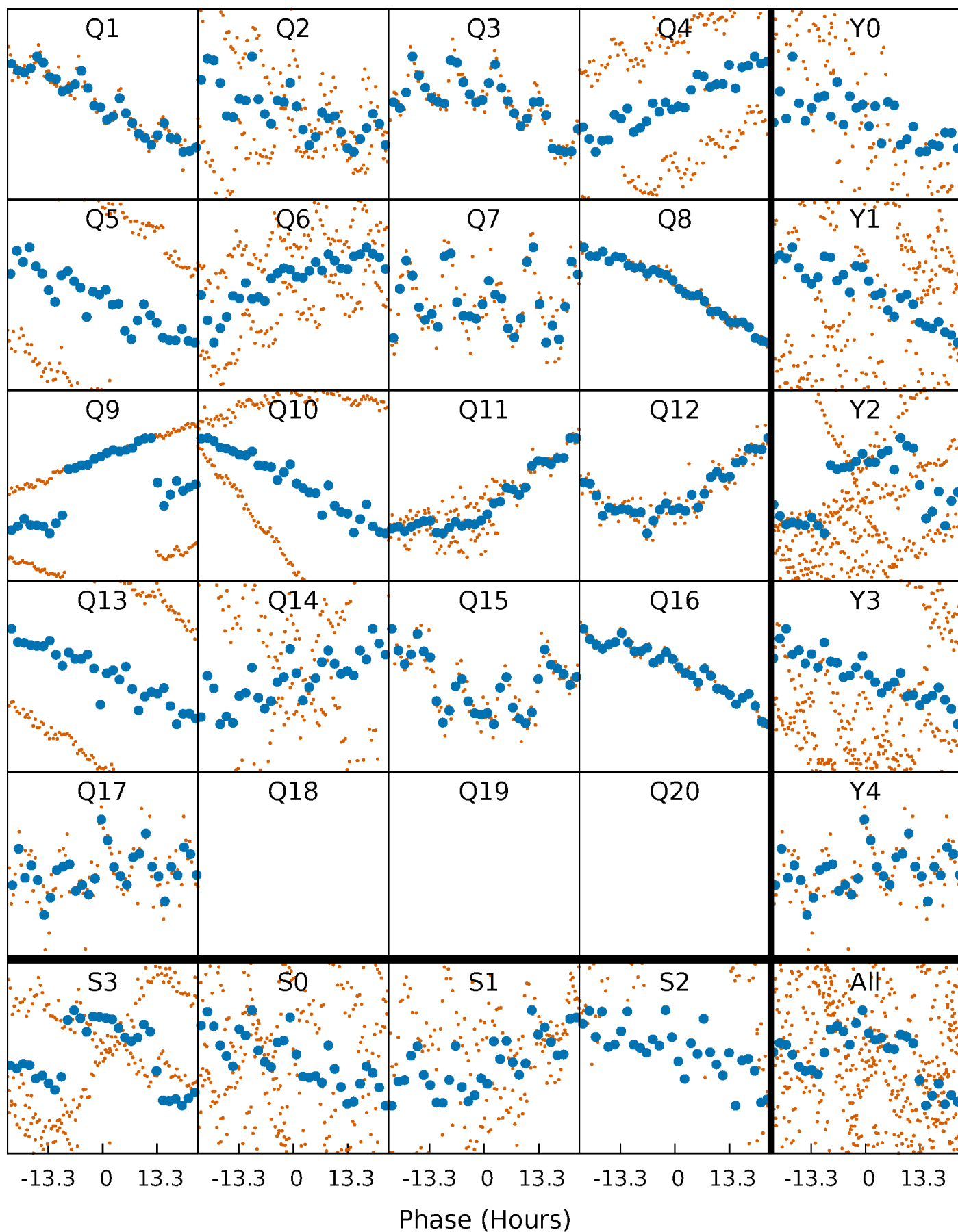


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



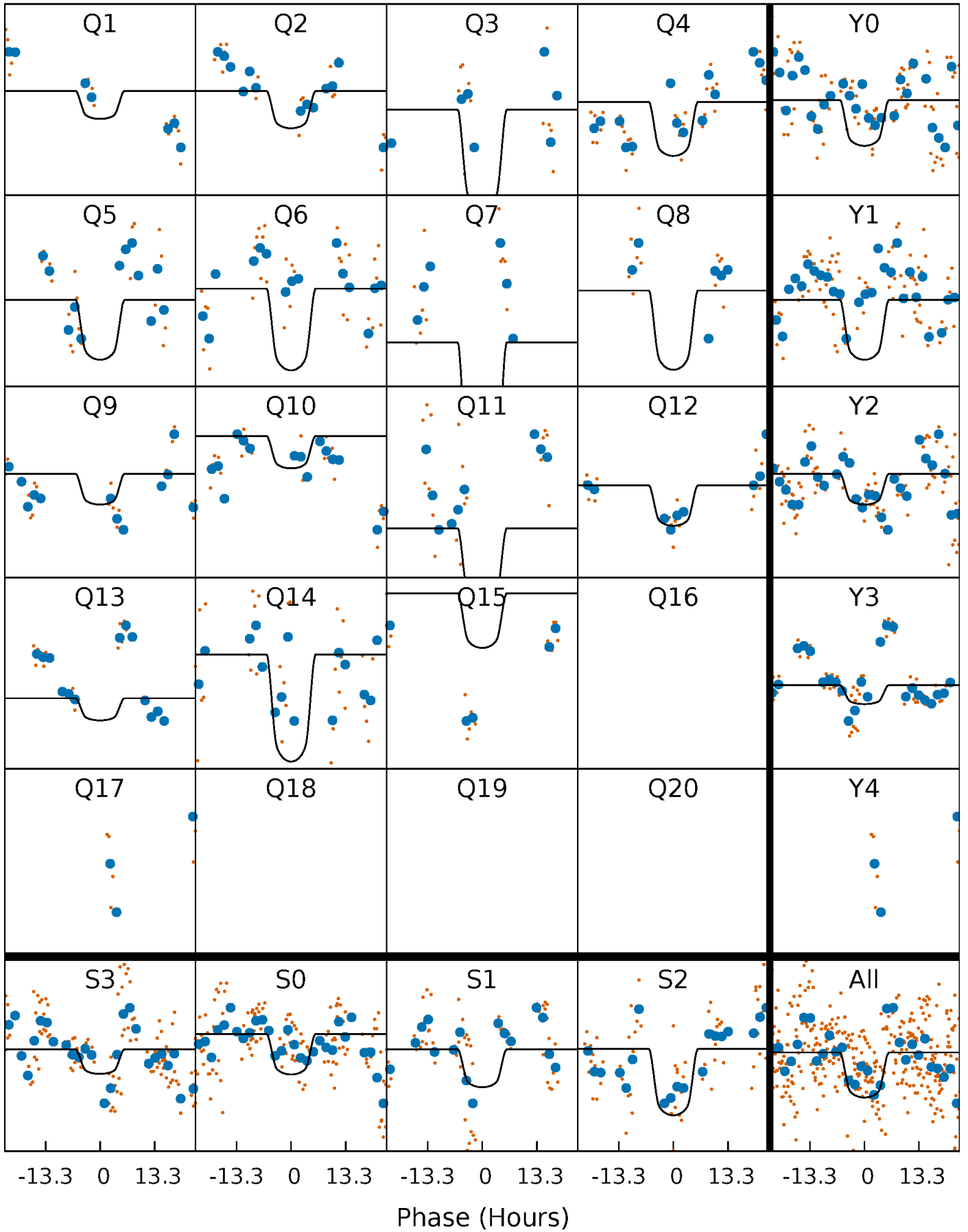
PDC Quarter-Phased Transit Curves

TCE 005879574-06 P= 52.791700 Days $T_0=147.940220$ (BKJD)



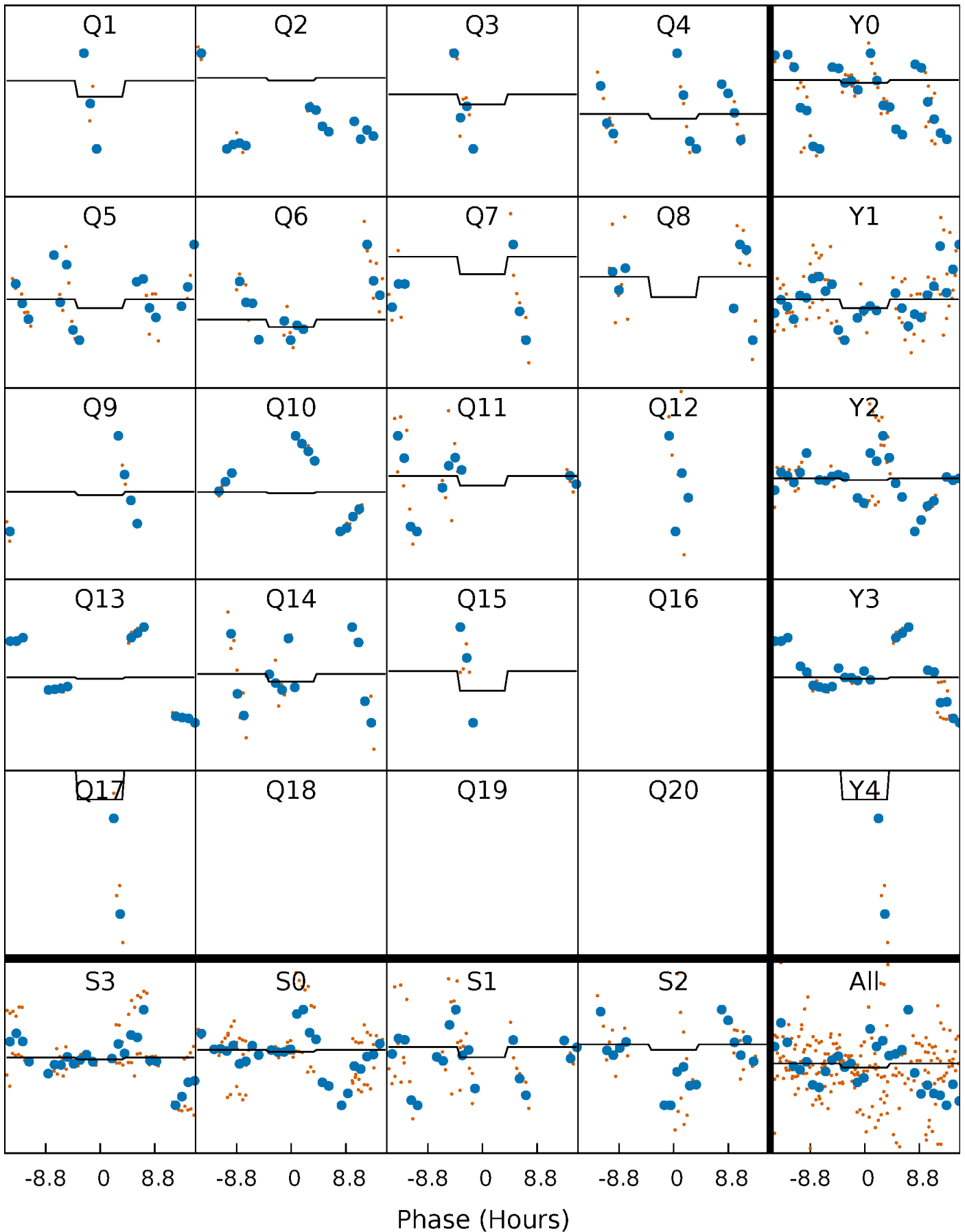
DV Quarter-Phased Transit Curves

TCE 005879574-06 P= 52.791700 Days $T_0=147.940220$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

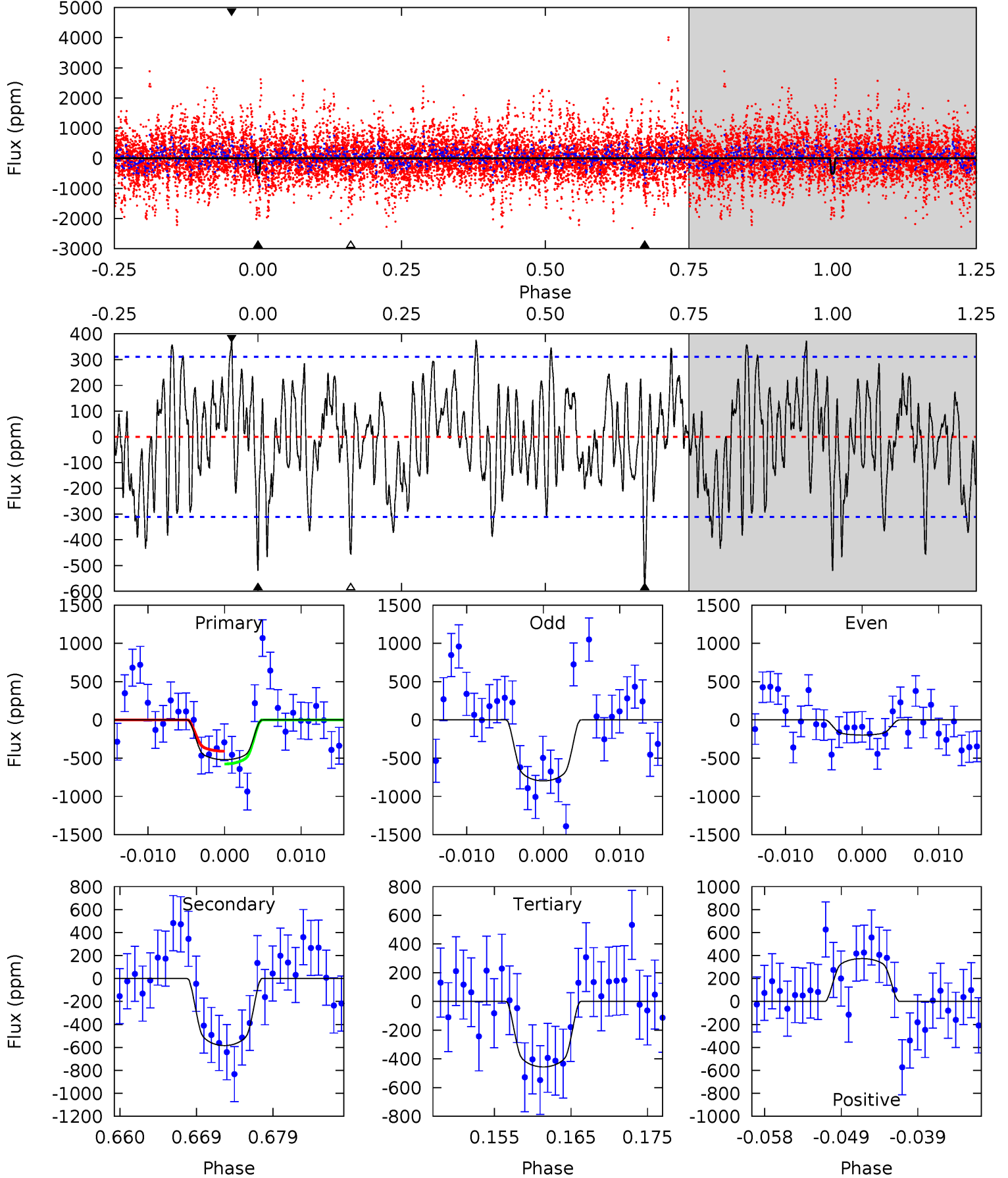
TCE 005879574-06 P= 52.792854 Days $T_0=147.908439$ (BKJD)



DV Model-Shift Uniqueness Test

005879574-06, P = 52.791700 Days, E = 95.148520 Days

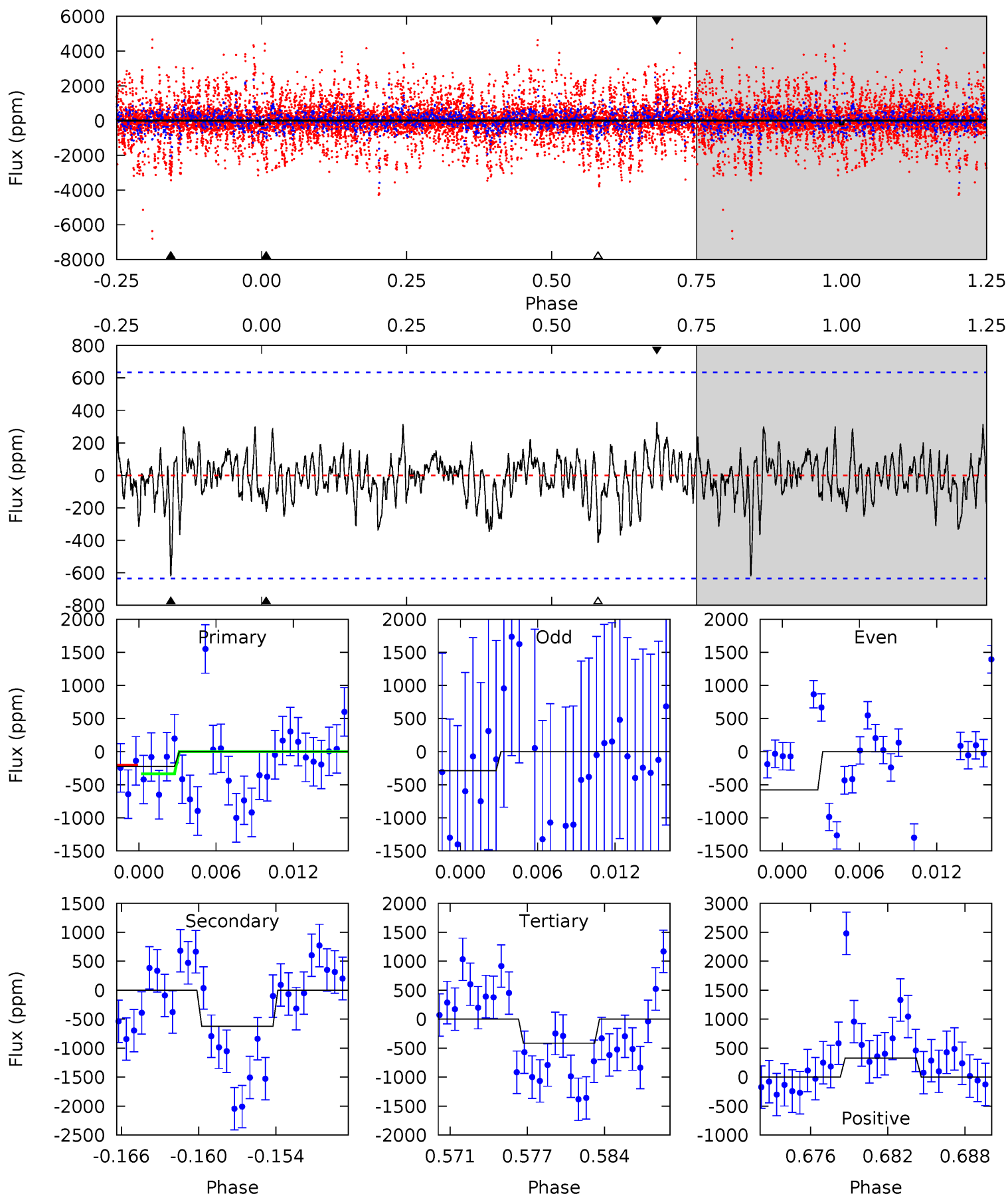
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.41	9.45	7.38	6.04	5.03	2.59	2.58	1.03	2.37	2.07	3.41	4.69	-0.64	0.39	1.34



Alt Model-Shift Uniqueness Test

005879574-06, P = 52.792854 Days, E = 95.115585 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.81	5.01	3.35	2.64	5.12	2.74	0.97	-1.54	-0.83	1.67	2.37	0.90	-1.99	0.35	0.54



Stellar Parameters For KIC 005879574

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5767^{+156}_{-190}	$4.538^{+0.036}_{-0.204}$	$-0.060^{+0.250}_{-0.300}$	$0.881^{+0.258}_{-0.086}$	$0.979^{+0.102}_{-0.125}$	$2.017^{+0.400}_{-1.030}$
	+3%/-3%	+1%/-4%	+417%/-500%	+29%/-10%	+10%/-13%	+20%/-51%
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 005879574-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-584 ± 62	$3.06^{+0.61}_{-0.42}$	651^{+45}_{-28}	5156^{+354}_{-303}	2445^{+935}_{-732}
Alt.	-621 ± 124	$1.10^{+0.38}_{-0.38}$	652^{+44}_{-30}	9289^{+3455}_{-1782}	20872^{+27769}_{-9902}

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 $A_{obs} \gg 1.0$

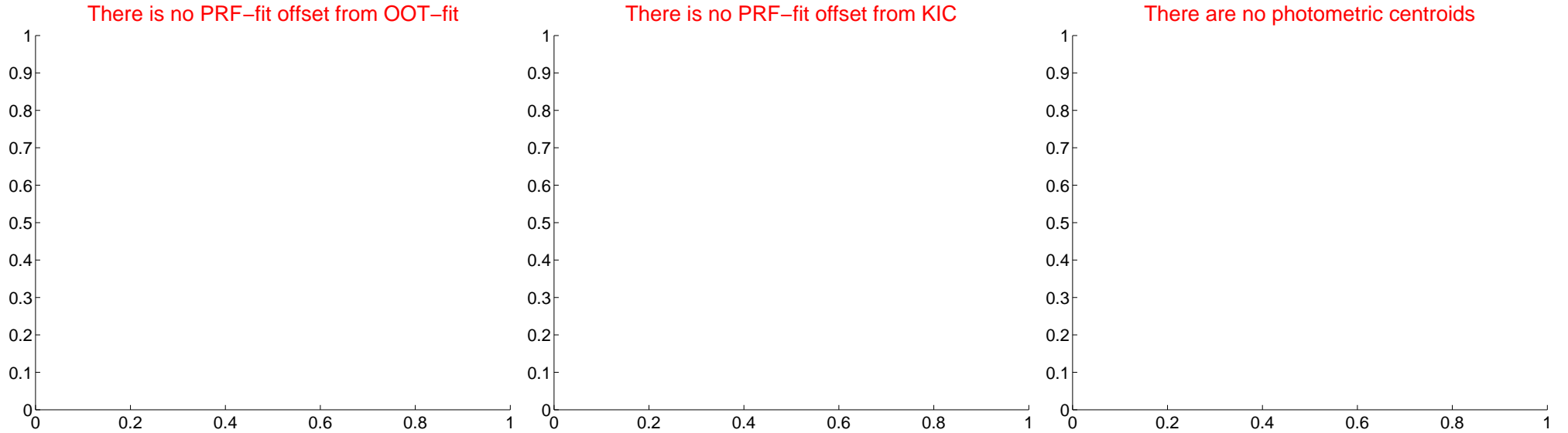
DV Centroid Data

Supplemental centroid analysis for 005879574-06. Kepler magnitude: 14.86. Transit SNR 6.70

There are 0 quarters with good PRF difference image offsets

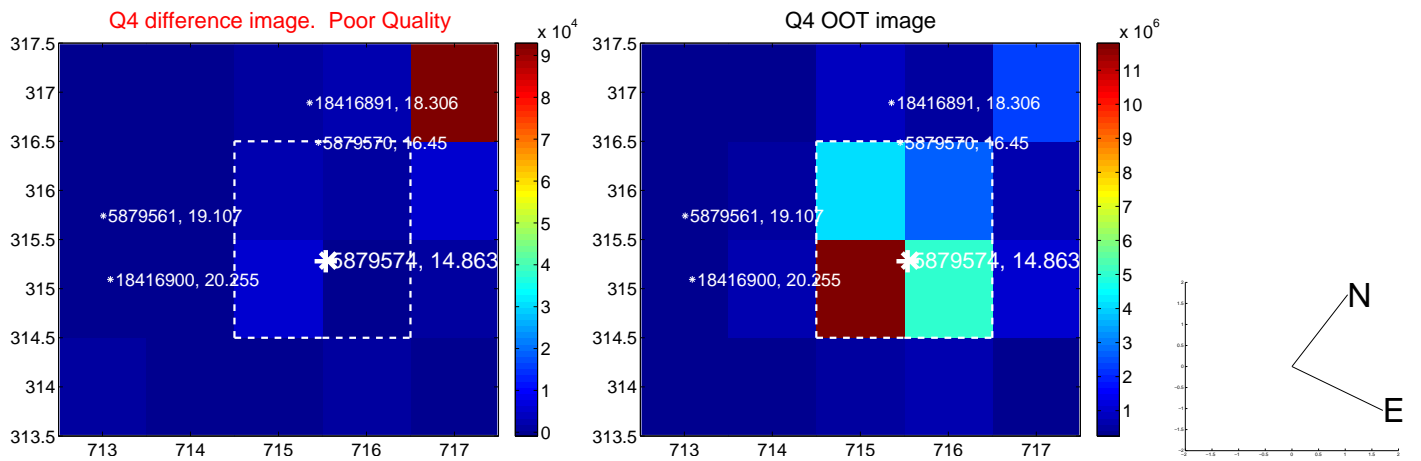
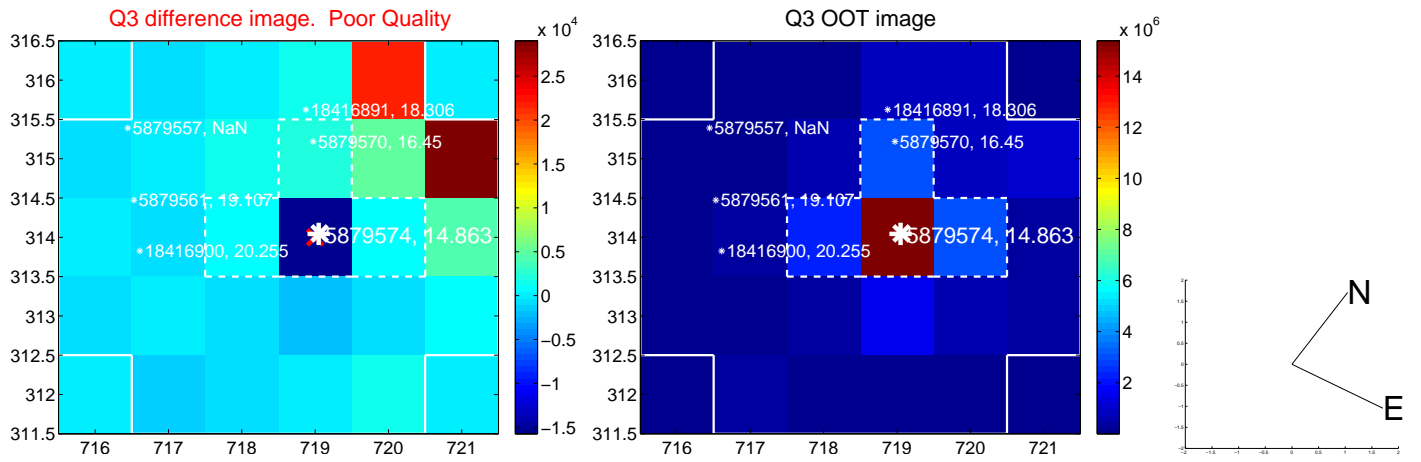
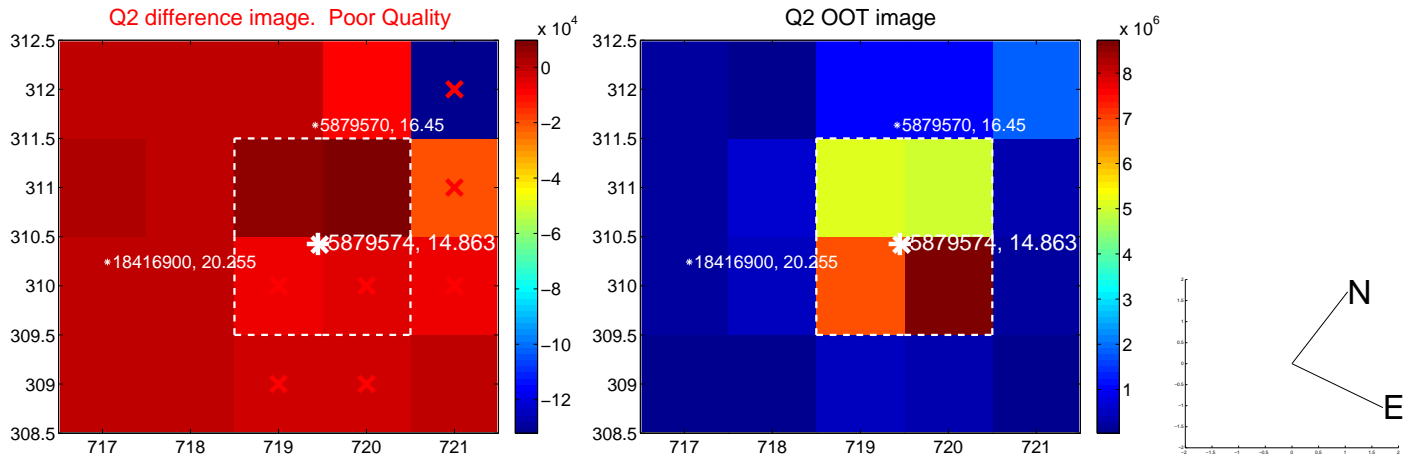
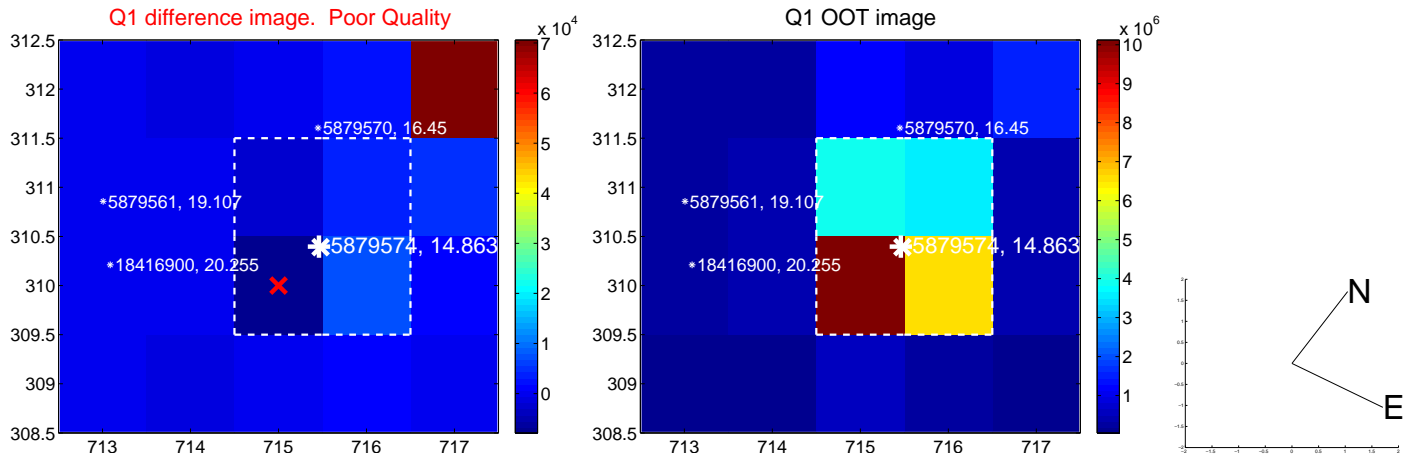
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	—	—	—	—

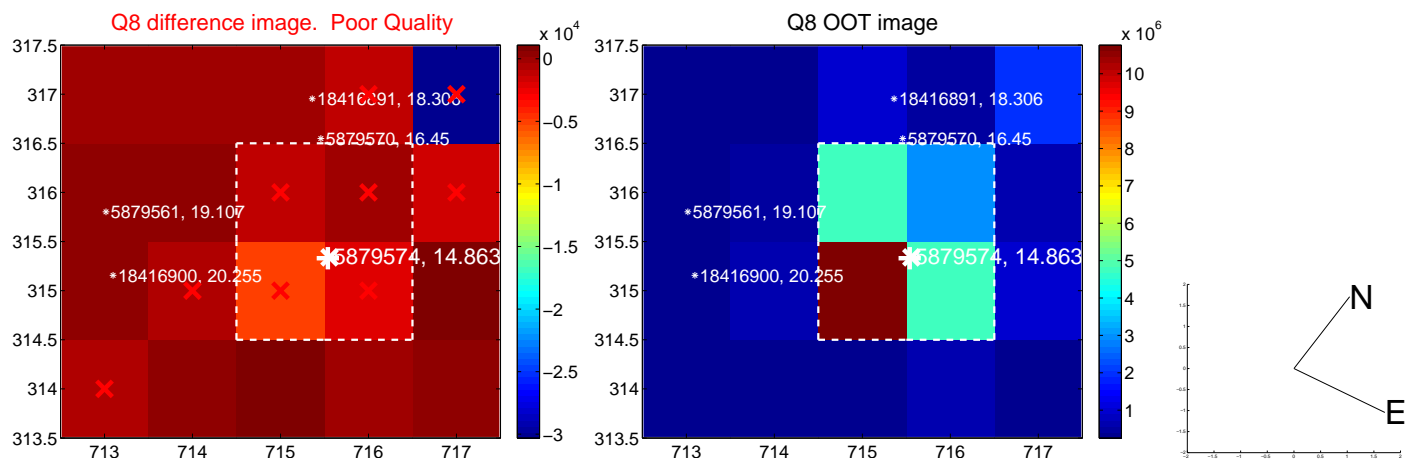
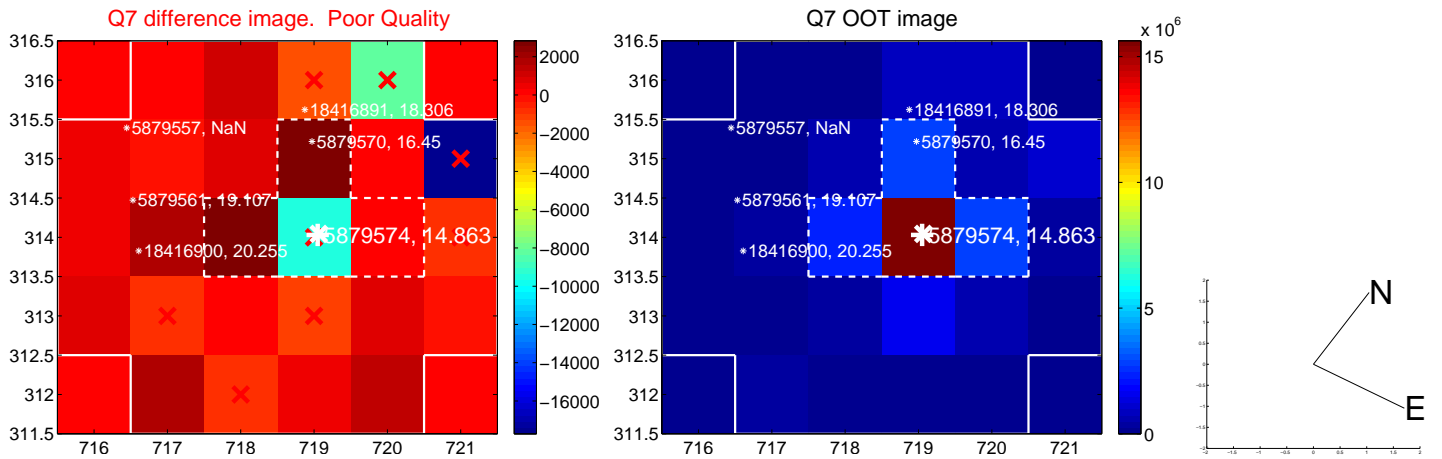
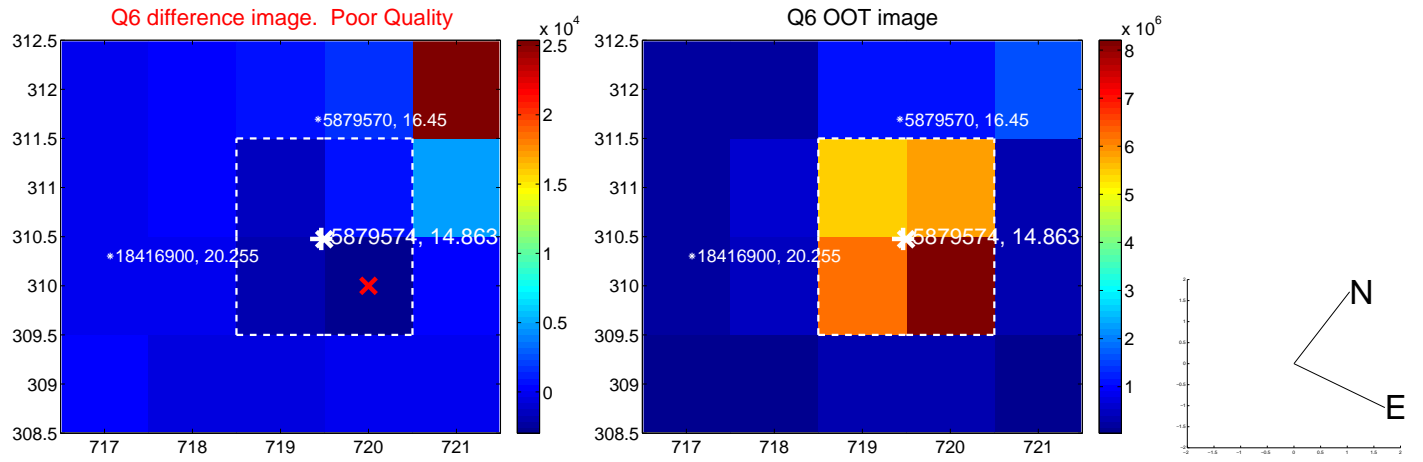
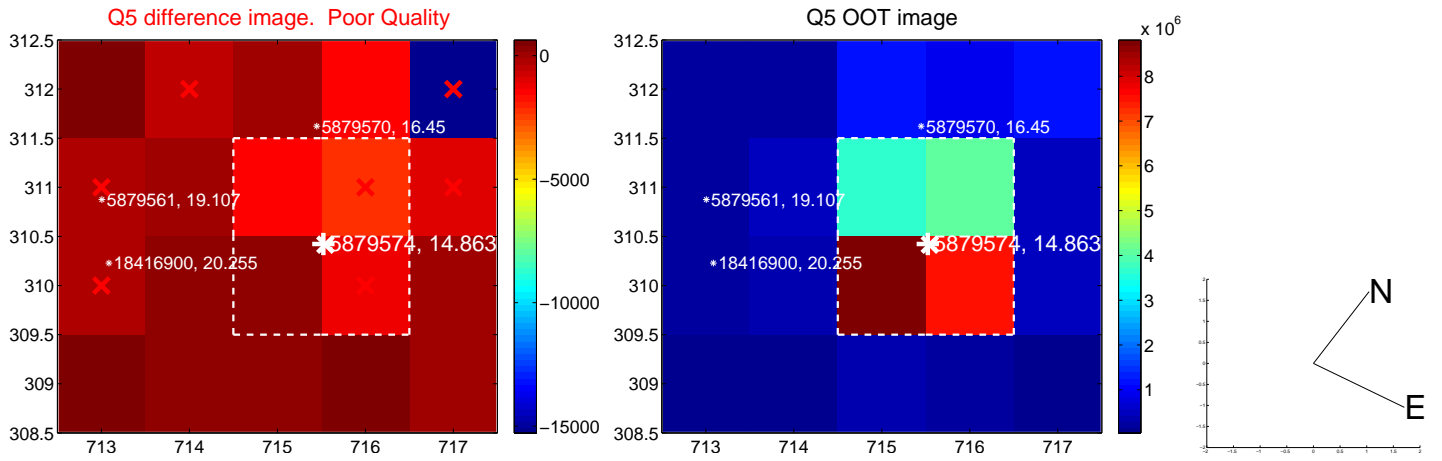


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

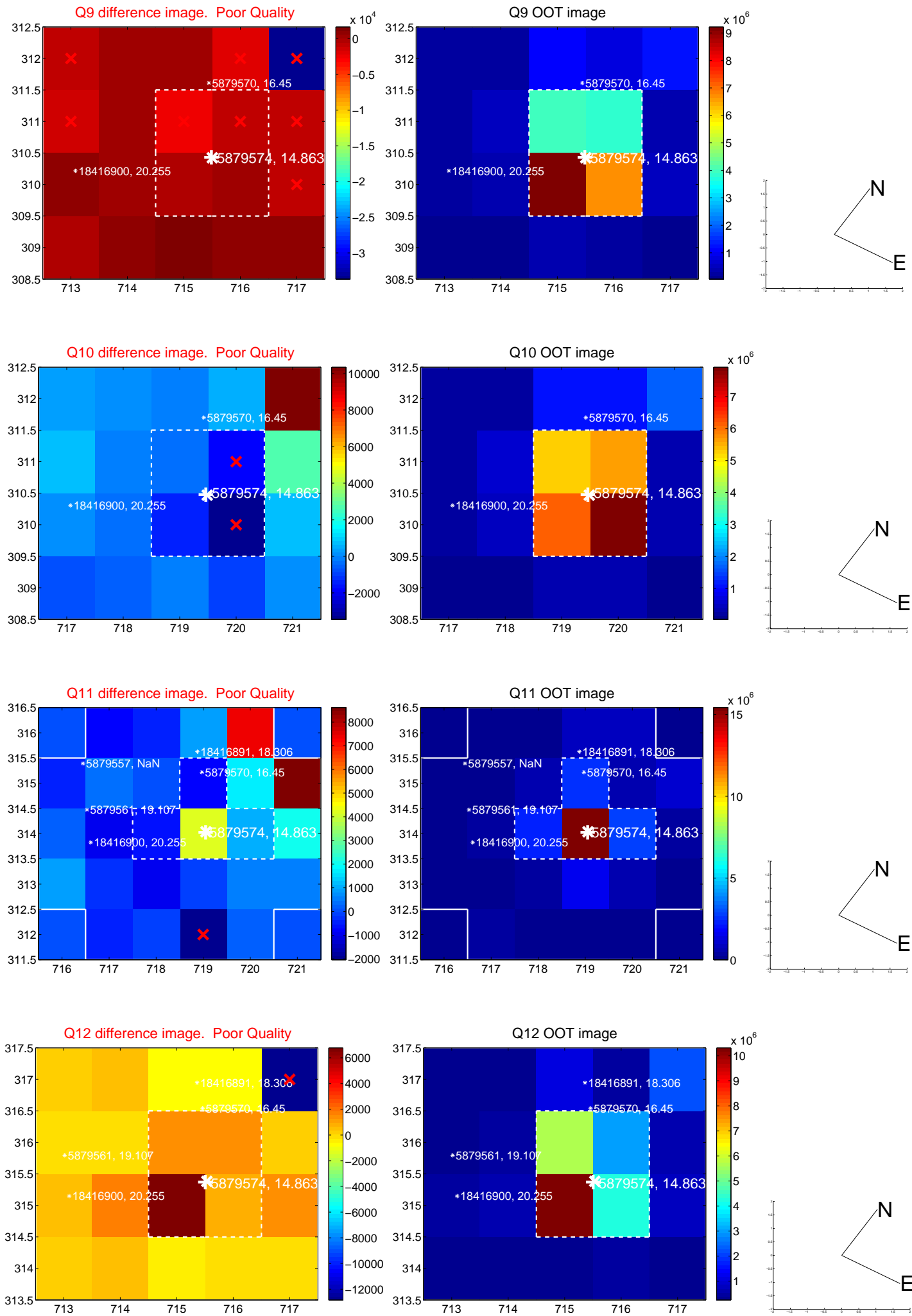
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



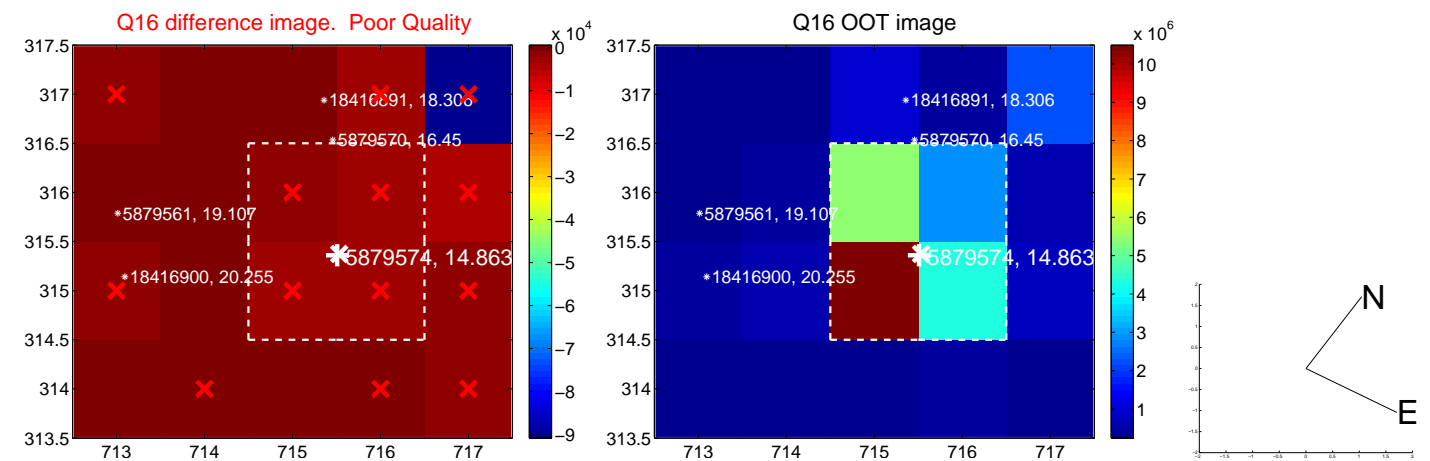
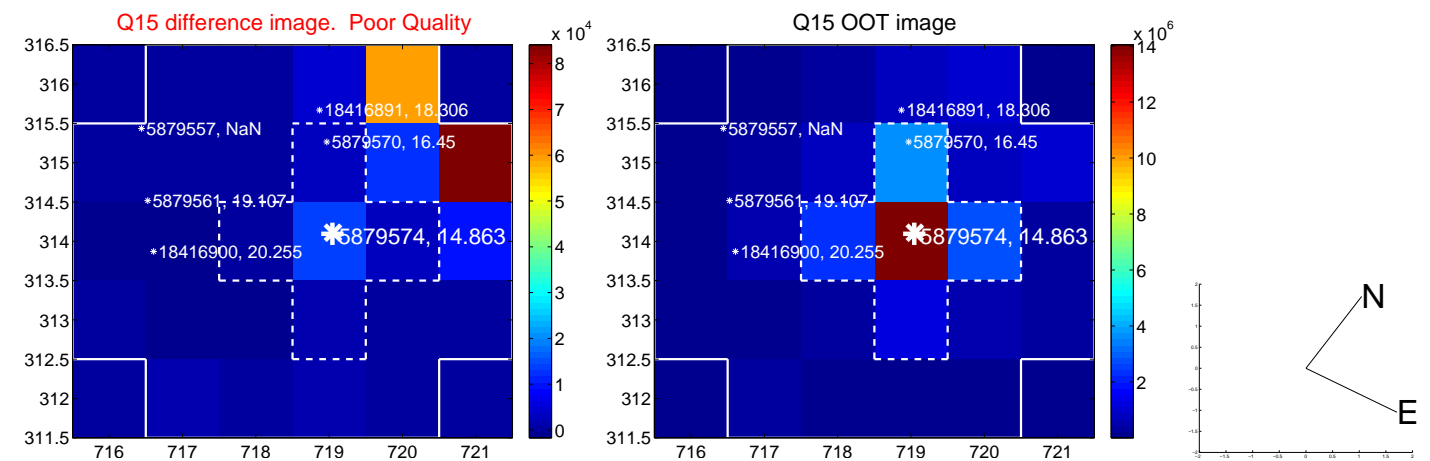
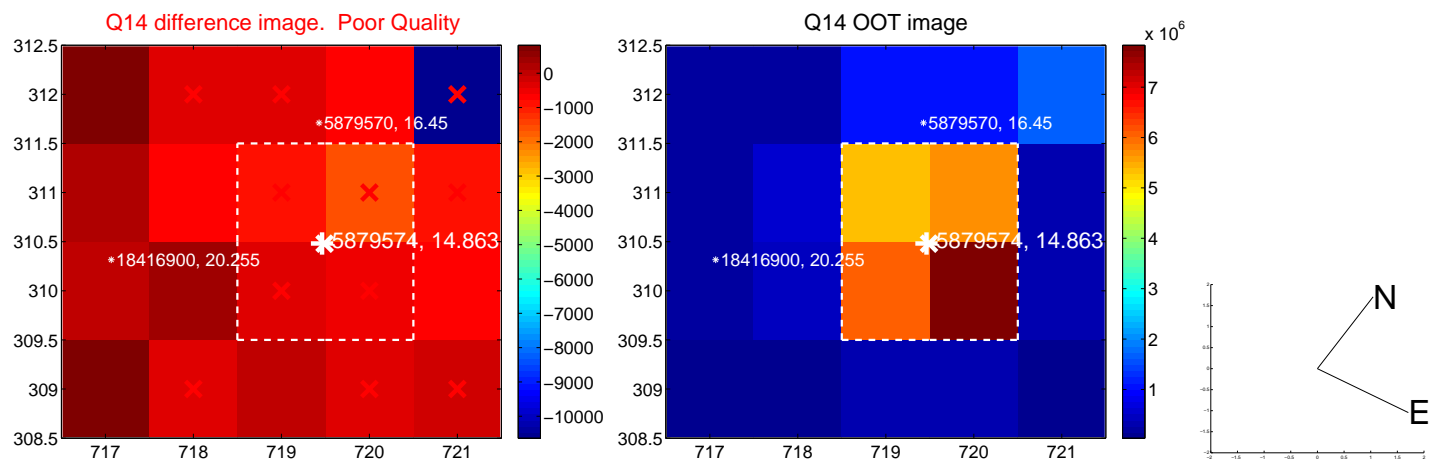
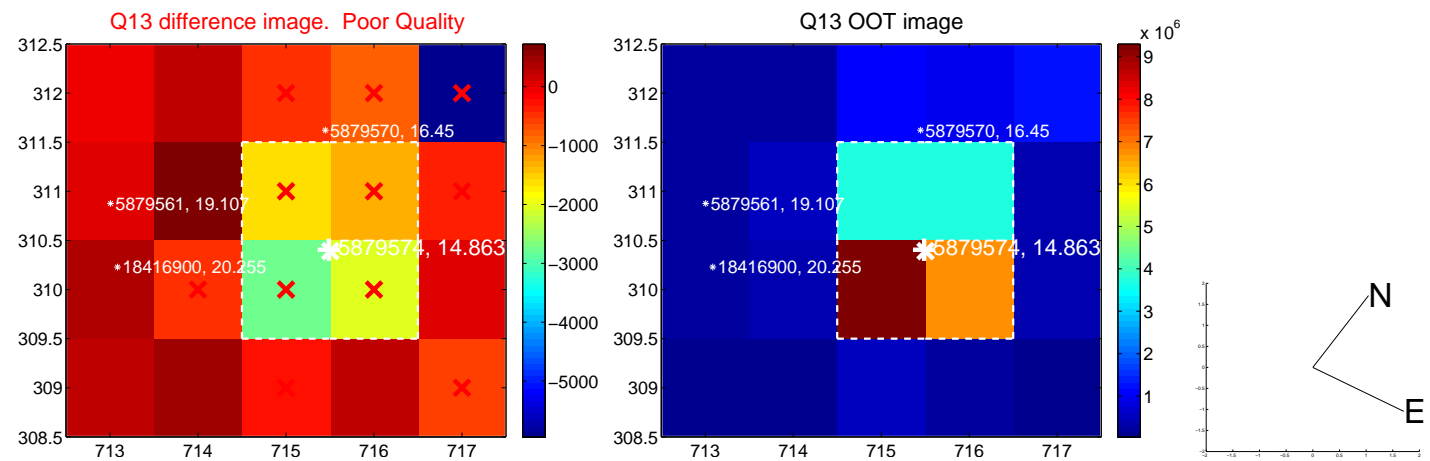
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



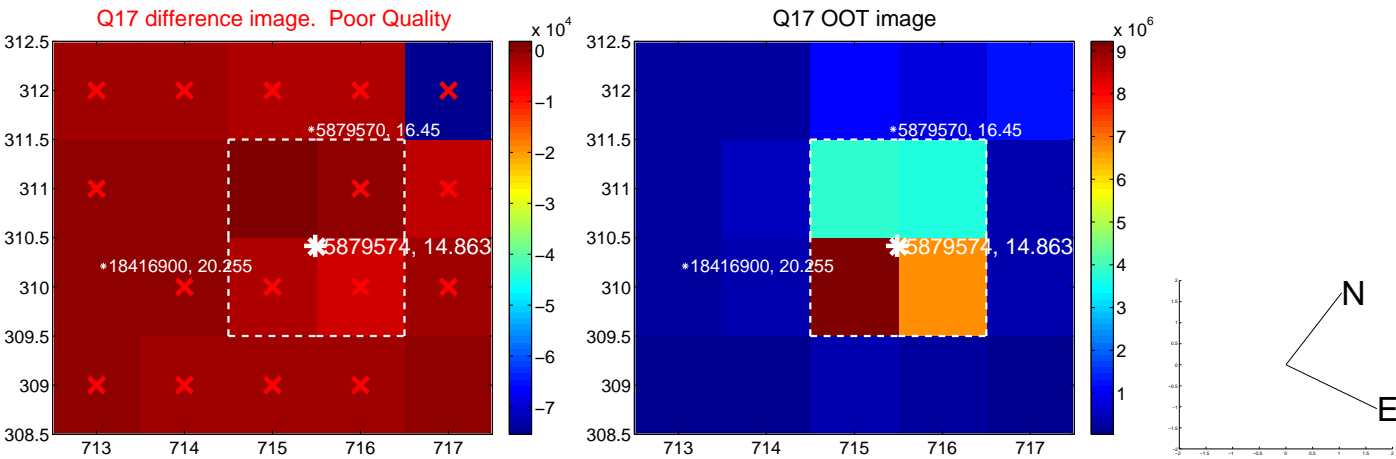
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



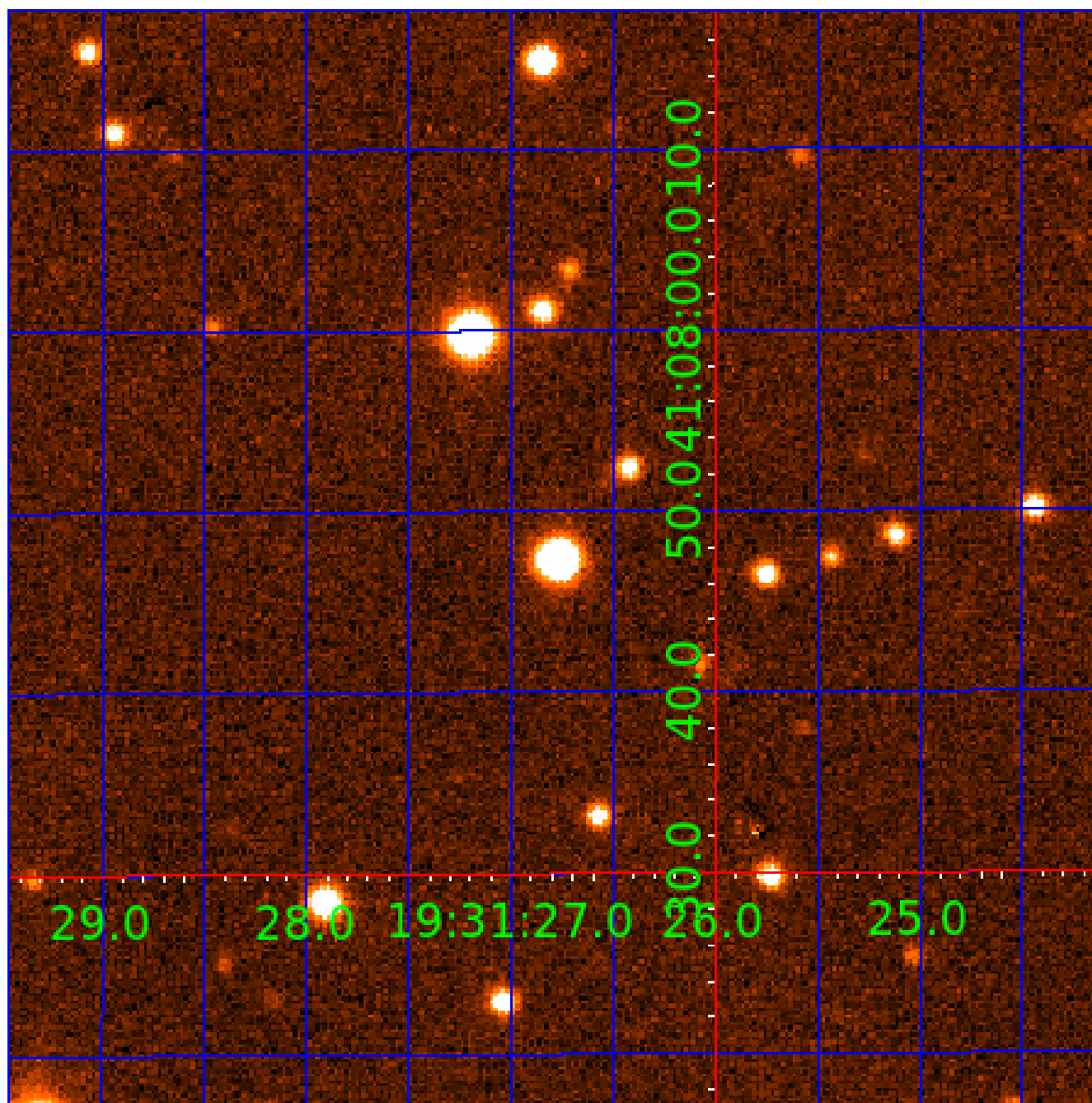
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 005879574

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})
005879574-01	OBS	No	0.846726	132.151481	15.7	1.378	8.3	2.3	0.88	5767	0.41	2545.00
005879574-02	OBS	No	0.846537	132.183489	33.6	5.398	8.3	5.9	0.88	5767	0.53	2545.76
005879574-04	OBS	No	85.460142	153.290330	484.4	11.724	14.9	3.9	0.88	5767	2.03	5.42
005879574-06	OBS	No	52.791700	147.940220	753.7	11.647	10.4	6.7	0.88	5767	2.97	10.29
005879574-07	OBS	No	223.577114	322.892776	1710.2	14.338	9.7	6.3	0.88	5767	6.98	1.50

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005879574-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET
005879574-02	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_RESOLVED_OFFSET
005879574-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005879574-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET
005879574-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

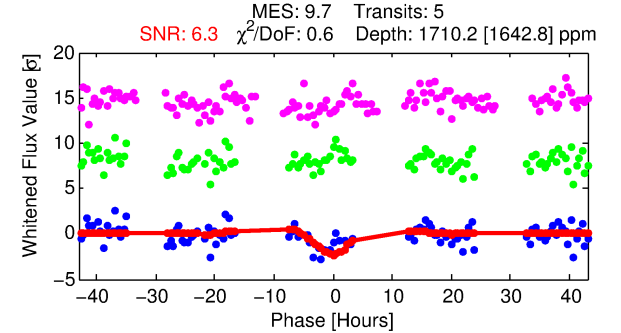
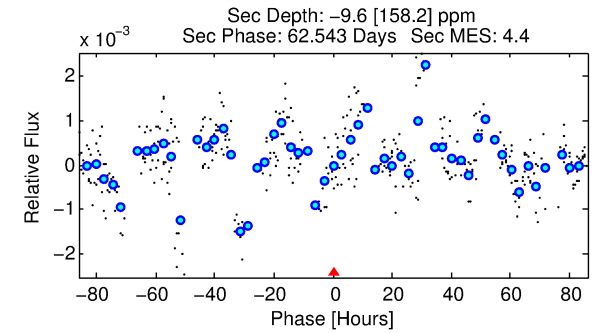
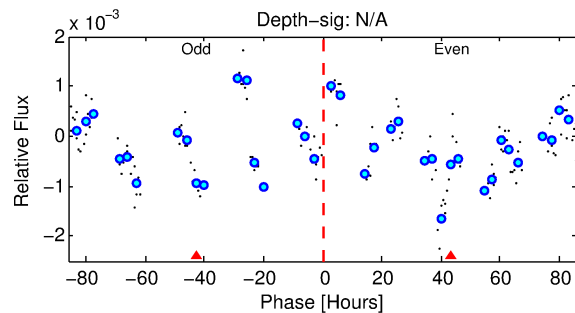
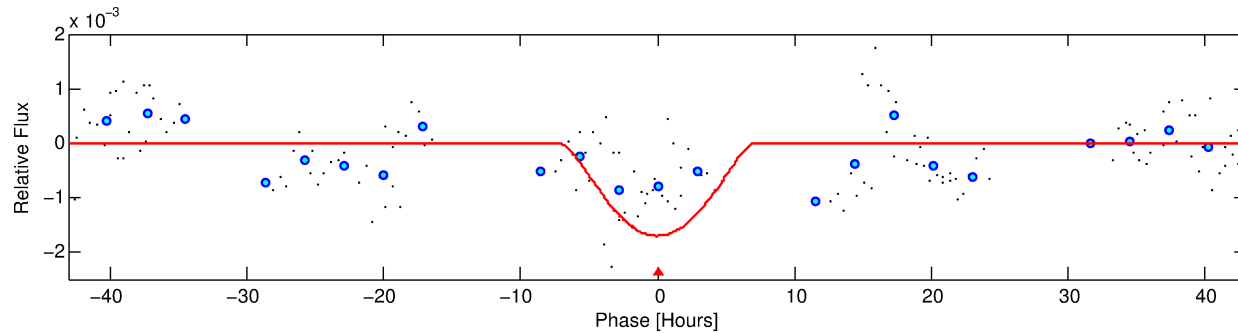
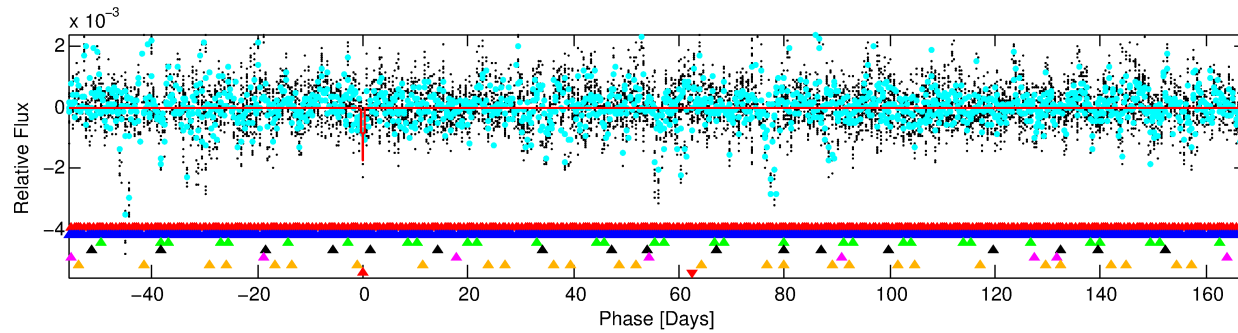
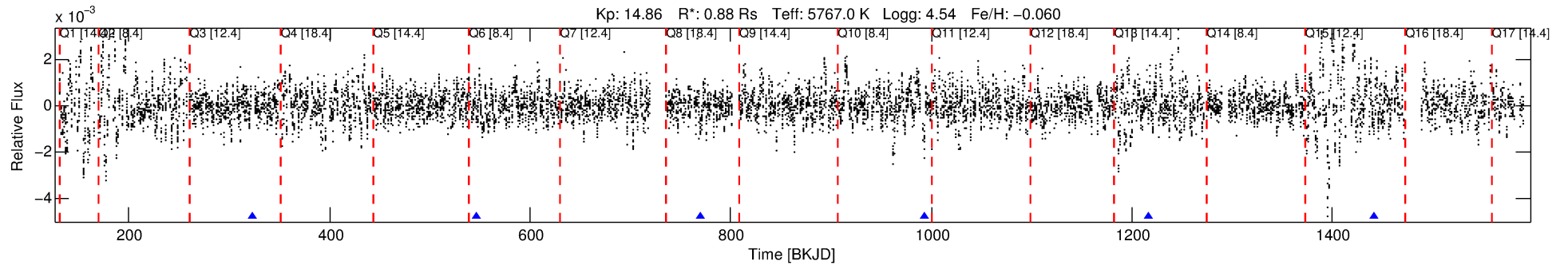
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005879574-07

No Significant Match Found

DV One-Page Summary

KIC: 5879574 Candidate: 7 of 7 Period: 223.577 d



DV Fit Results:

Period = 223.57711 [0.04060] d
Epoch = 322.8928 [0.1141] BKJD
Rp/R* = 0.0726 [0.2261]
a/R* = 46.21 [33.32]
b = 1.00 [0.28]
Seff = 1.50 [0.59]
Teq = 282 [28] K
Rp = 6.98 [21.83] Re
a = 0.7155 [0.1791] AU
Ag = N/A
Teffp = N/A

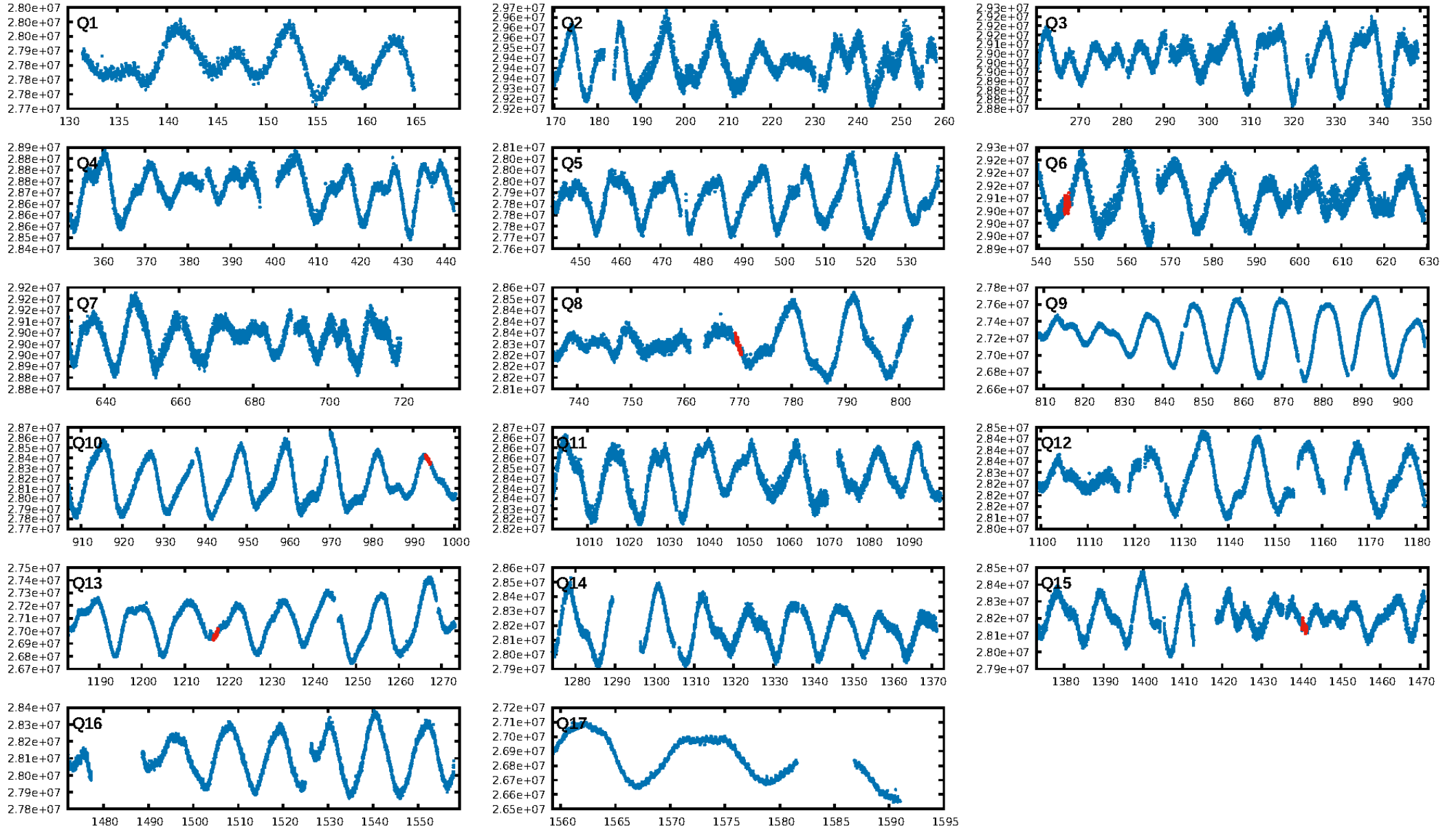
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [56.16σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 65.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.39e-10
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 0.00 [0/4]

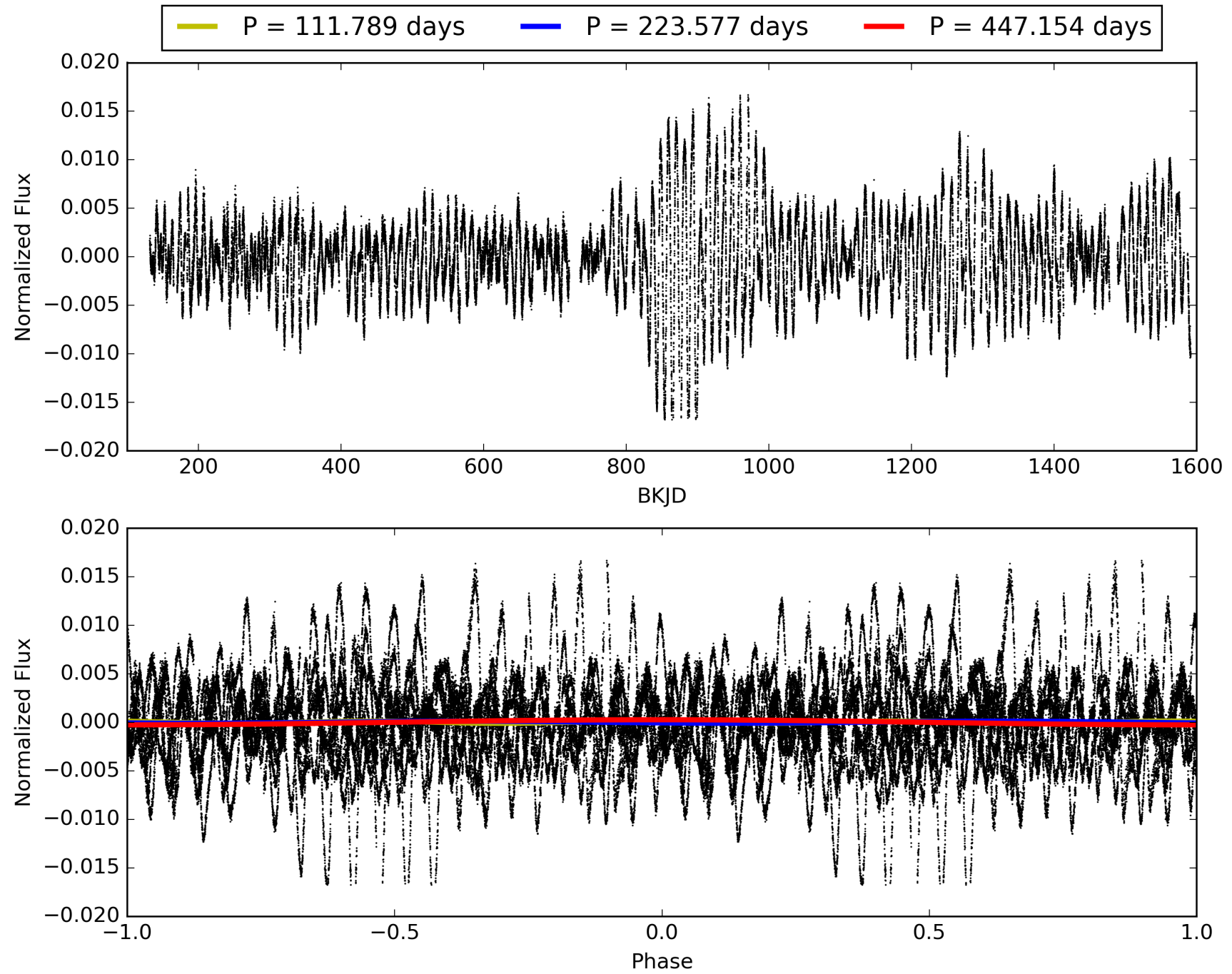
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 06:37:32 Z

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

TCE 005879574-07, PDC Light Curves

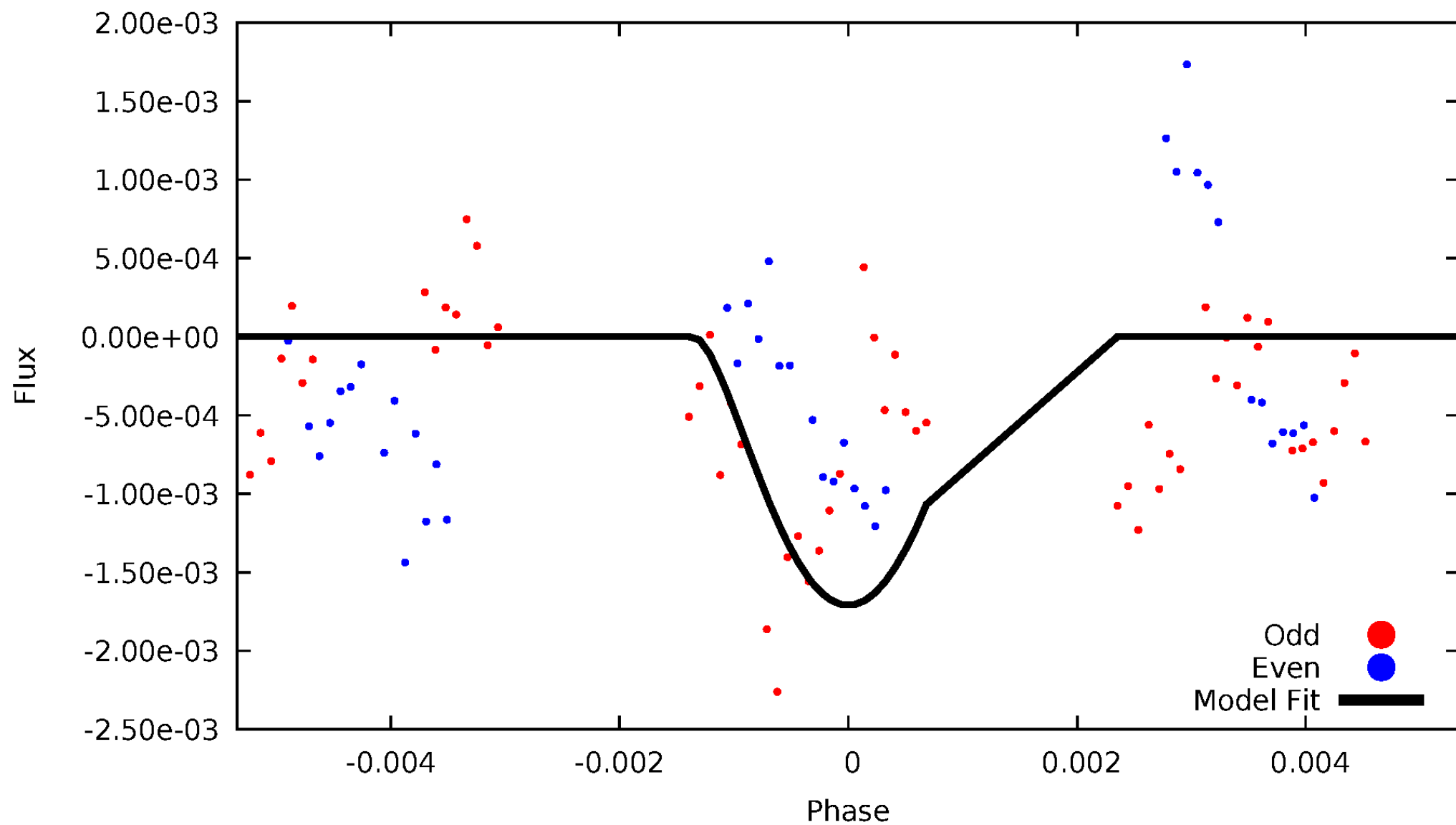


TCE 005879574-07



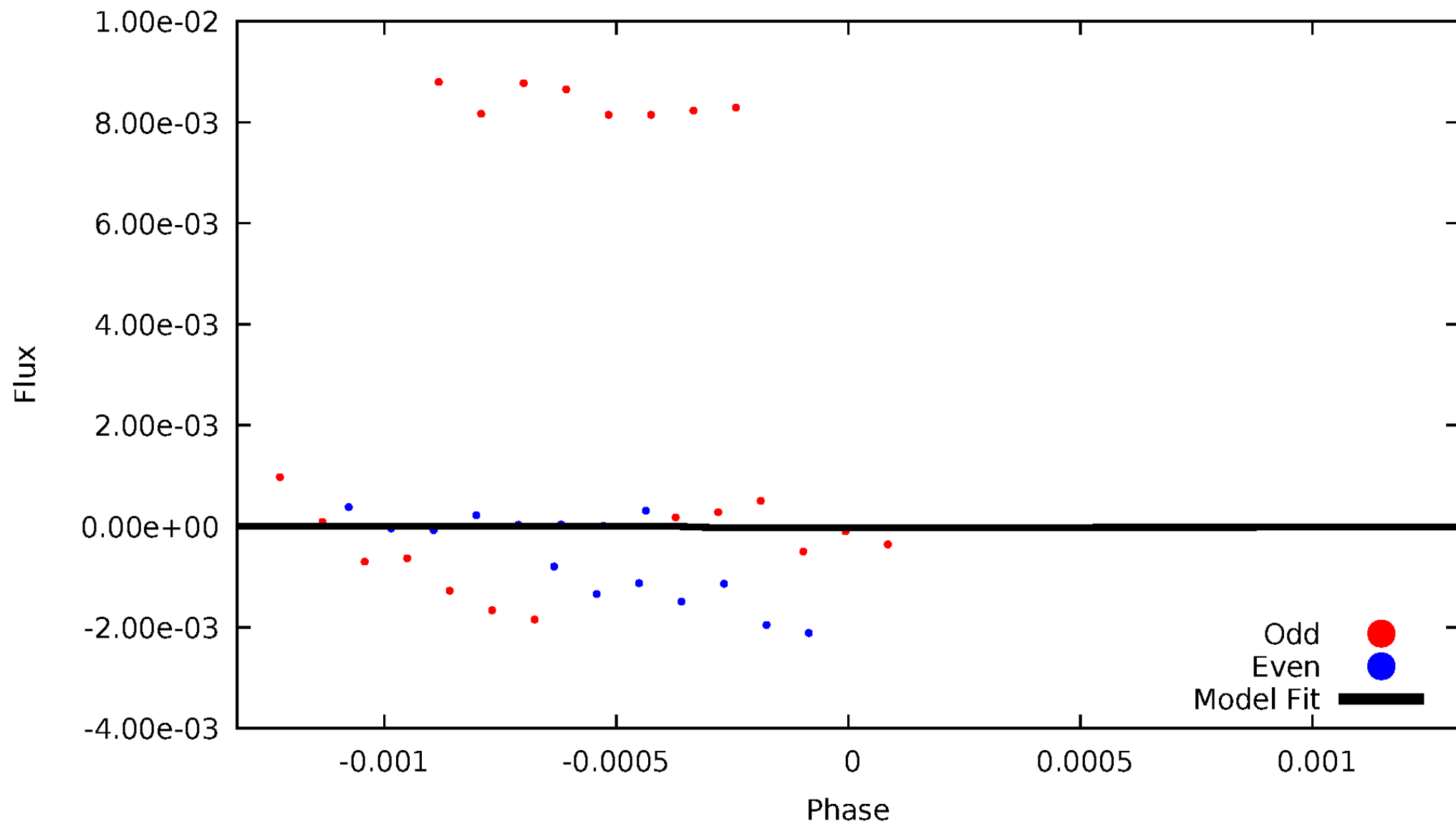
DV Odd/Even

TCE 005879574-07



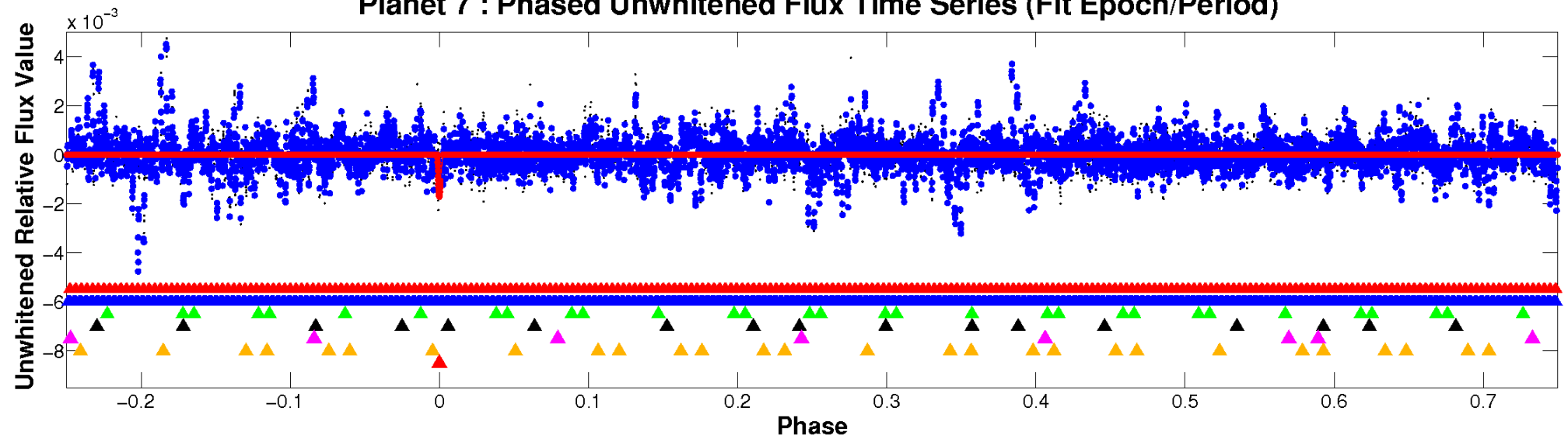
ALT Odd/Even

TCE 005879574-07

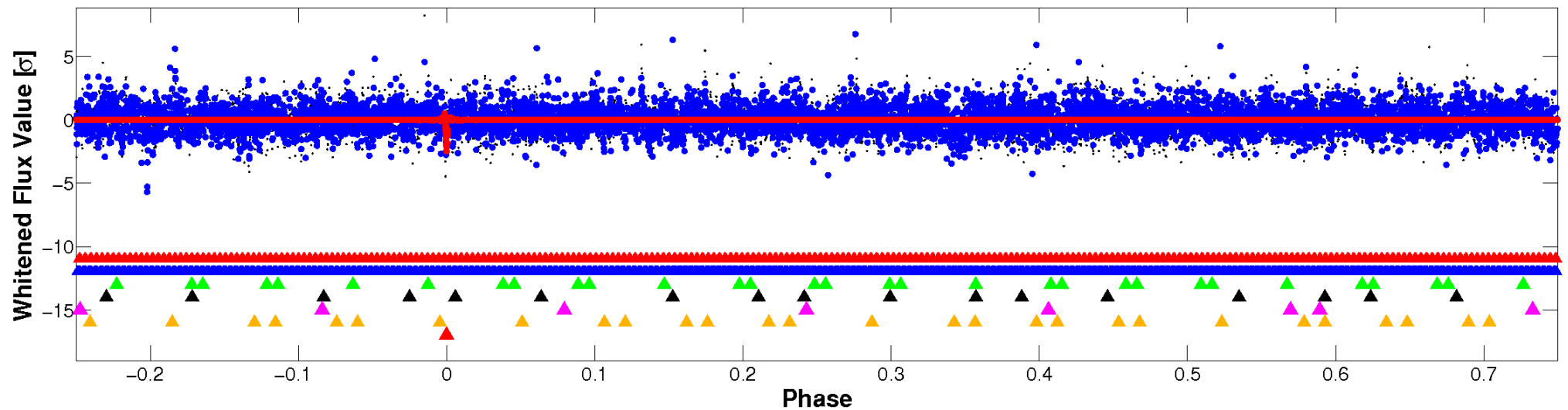


Non-Whitened Vs. Whitened Light Curve

Planet 7 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

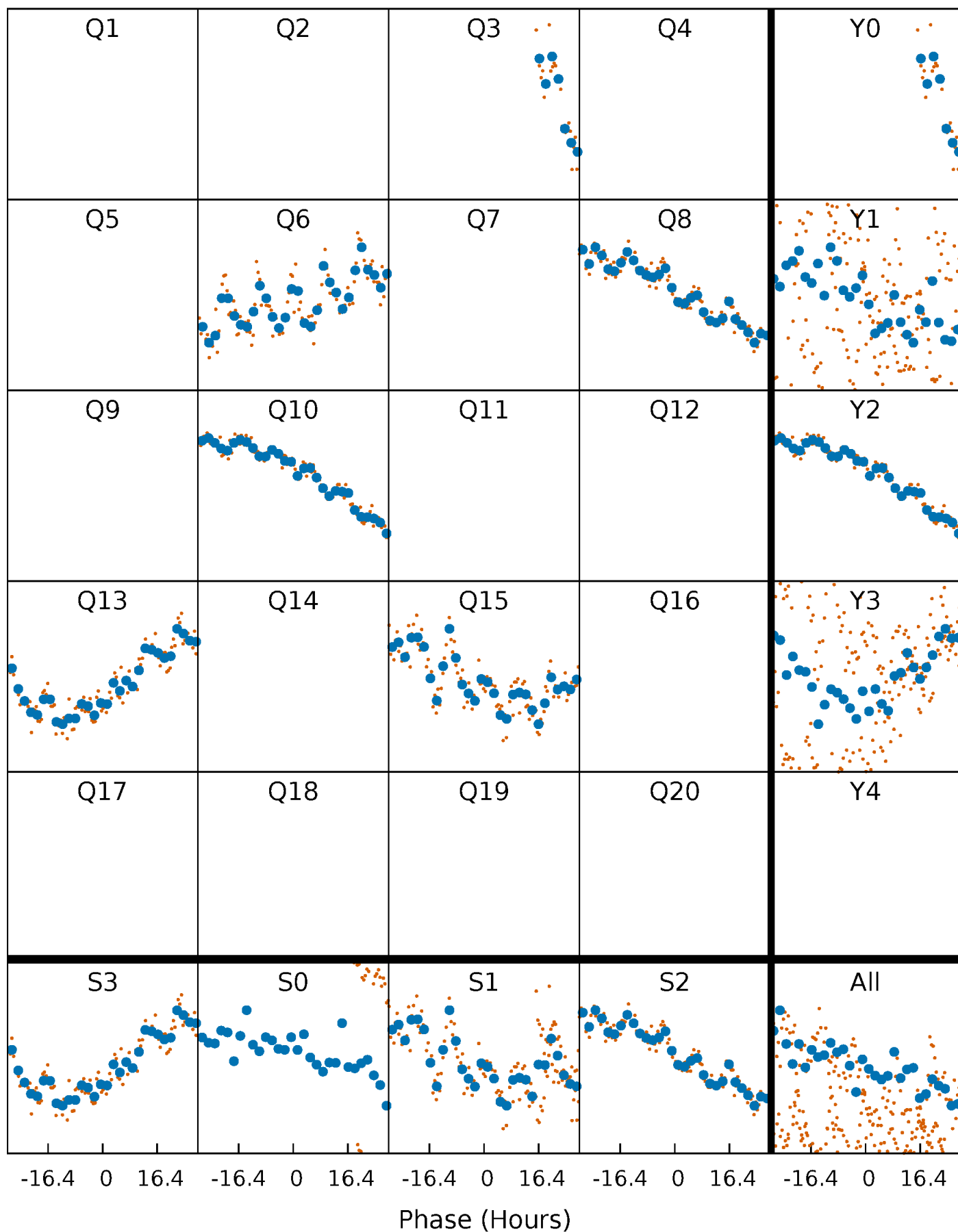


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



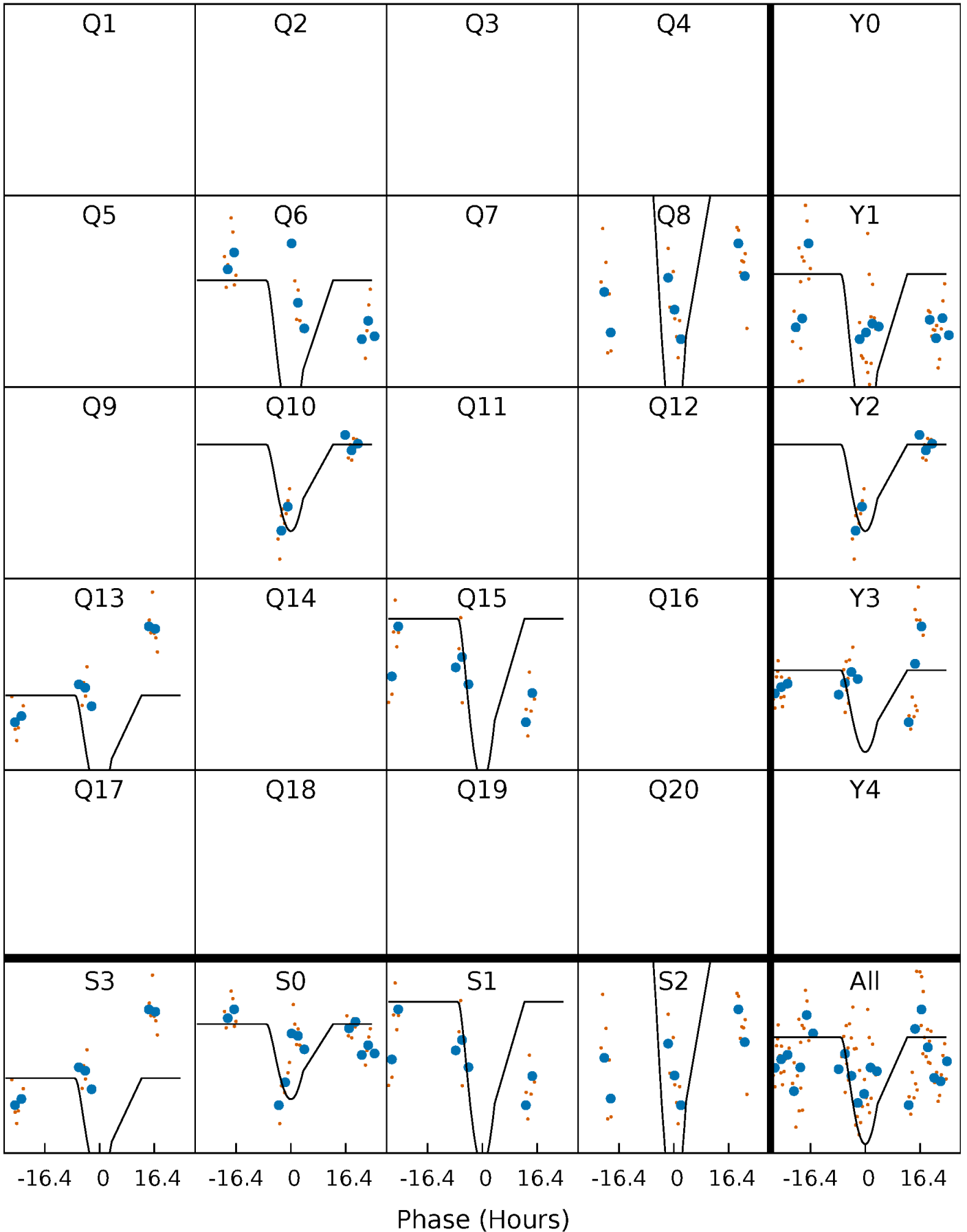
PDC Quarter-Phased Transit Curves

TCE 005879574-07 $P=223.577114$ Days $T_0=322.892776$ (BKJD)



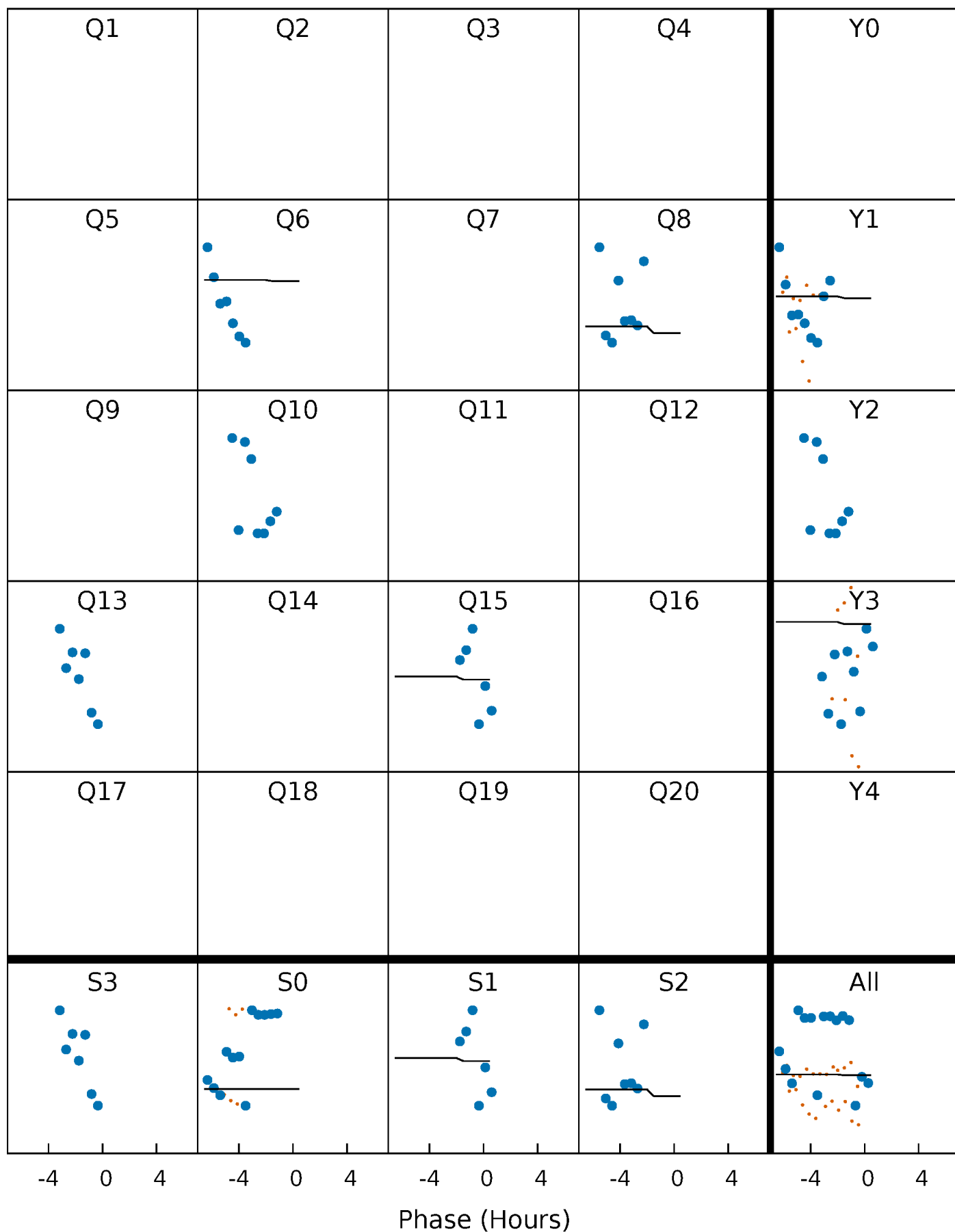
DV Quarter-Phased Transit Curves

TCE 005879574-07 $P=223.577114$ Days $T_0=322.892776$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

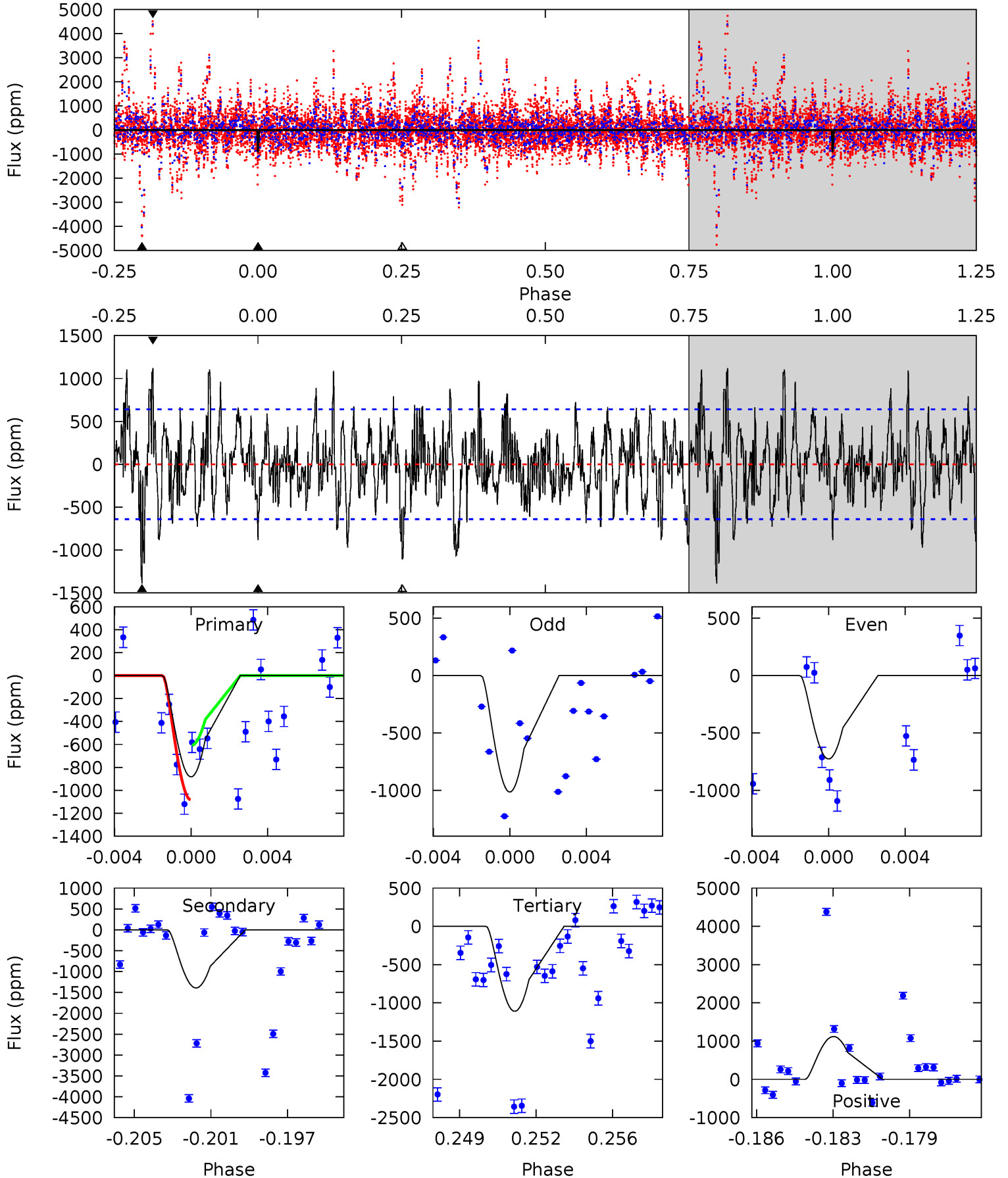
TCE 005879574-07 P=223.444075 Days $T_0=323.329541$ (BKJD)



DV Model-Shift Uniqueness Test

005879574-07, P = 223.577114 Days, E = 99.315662 Days

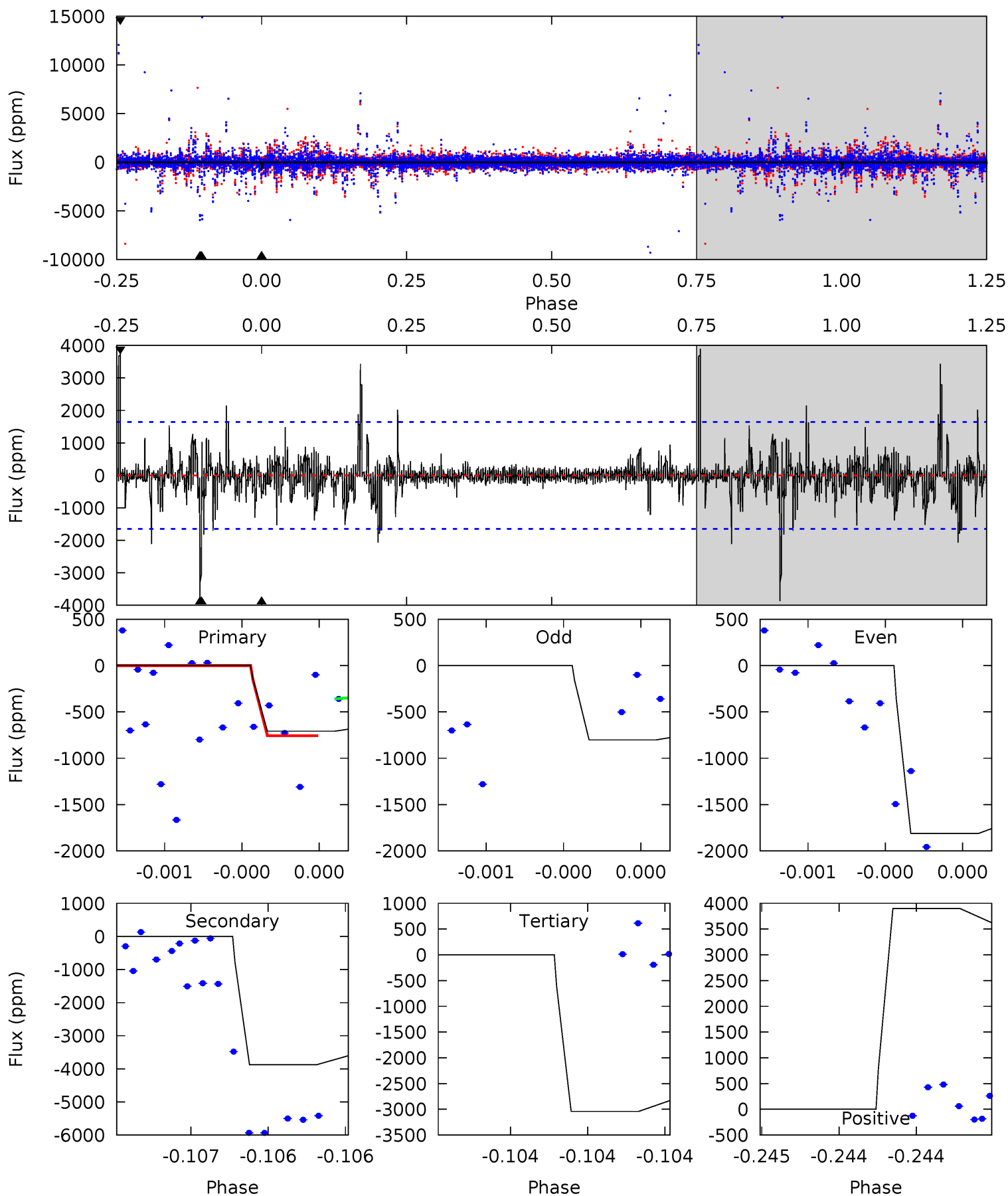
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.19	11.3	9.04	9.12	5.22	2.91	2.75	-1.85	-1.93	2.29	2.21	1.18	1.08	0.45	1.82



Alt Model-Shift Uniqueness Test

005879574-07, P = 223.444075 Days, E = 99.885466 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.41	13.2	10.3	13.3	5.60	3.53	1.09	-7.94	-10.8	2.83	-0.07	0.89	0	0.50	0.86



Stellar Parameters For KIC 005879574

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5767^{+156}_{-190}	$4.538^{+0.036}_{-0.204}$	$-0.060^{+0.250}_{-0.300}$	$0.881^{+0.258}_{-0.086}$	$0.979^{+0.102}_{-0.125}$	$2.017^{+0.400}_{-1.030}$
	+3%/-3%	+1%/-4%	+417%/-500%	+29%/-10%	+10%/-13%	+20%/-51%
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 005879574-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1391 ± 123	$17.77^{+19.27}_{-12.29}$	403^{+27}_{-16}	3233^{+1681}_{-592}	1218^{+11279}_{-939}
Alt.	-3874 ± 294	$15.50^{+17.96}_{-10.94}$	404^{+26}_{-18}	3964^{+2833}_{-844}	4426^{+44711}_{-3479}

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 $A_{obs} \gg 1.0$

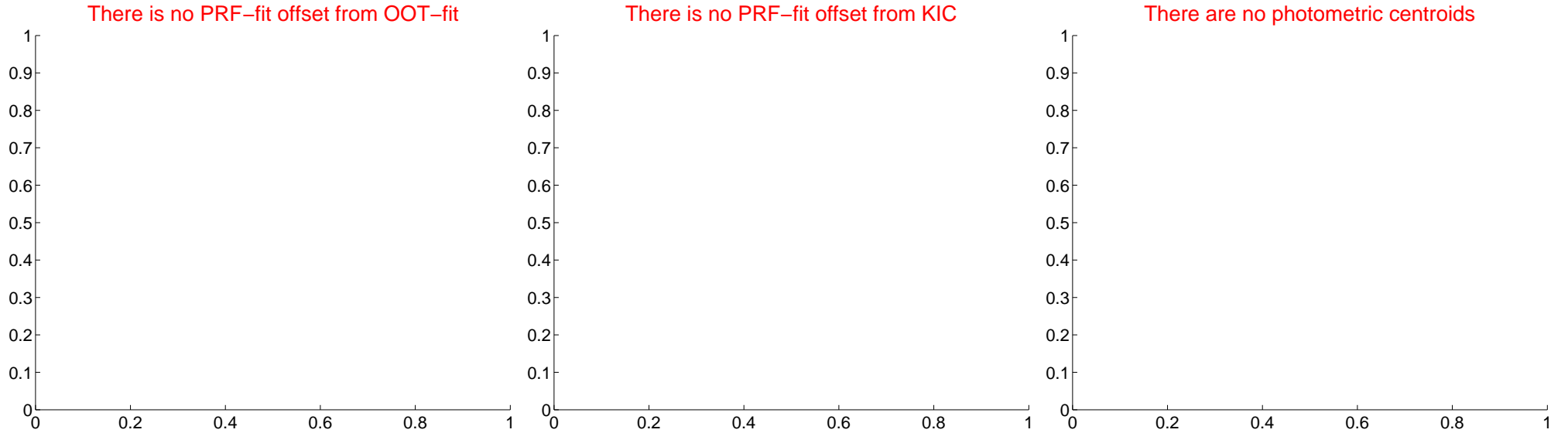
DV Centroid Data

Supplemental centroid analysis for 005879574-07. Kepler magnitude: 14.86. Transit SNR 6.35

There are 0 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	—	—	—	—

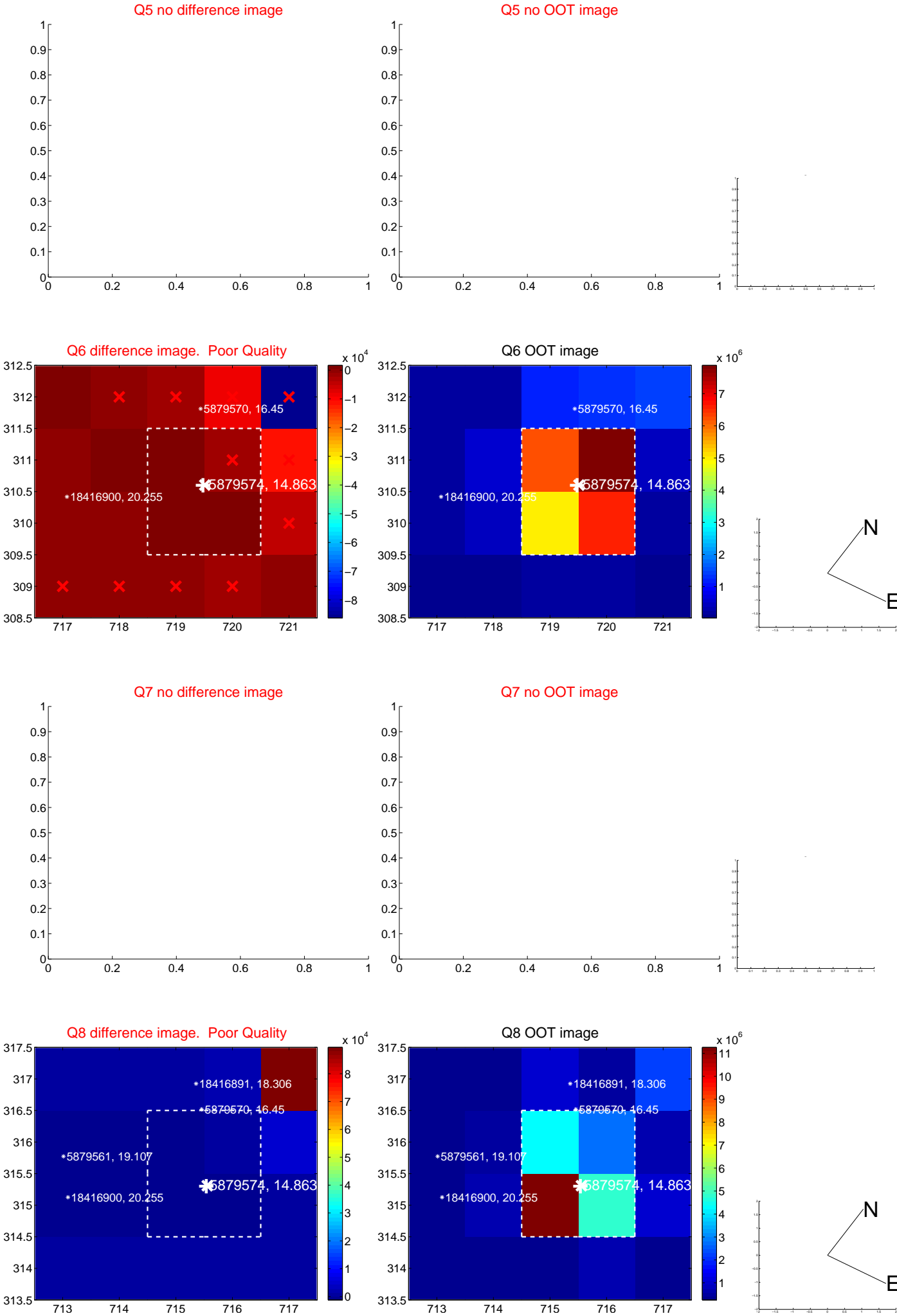


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

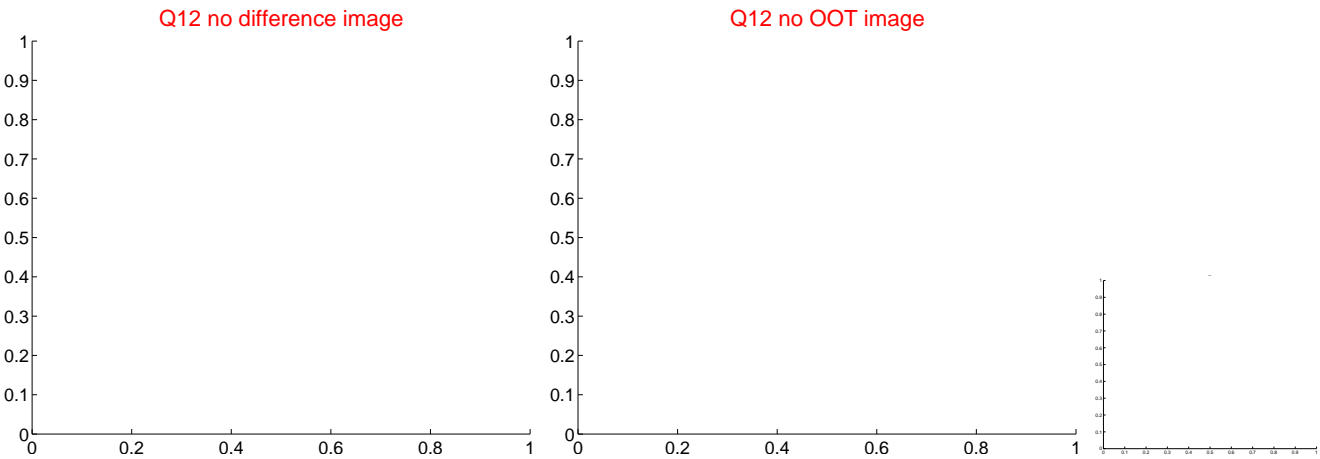
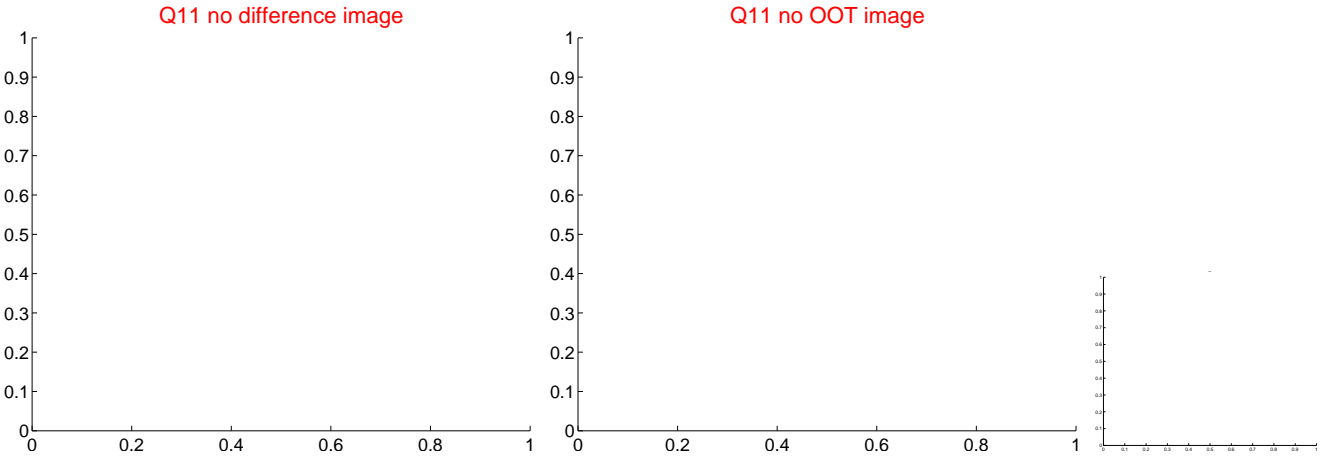
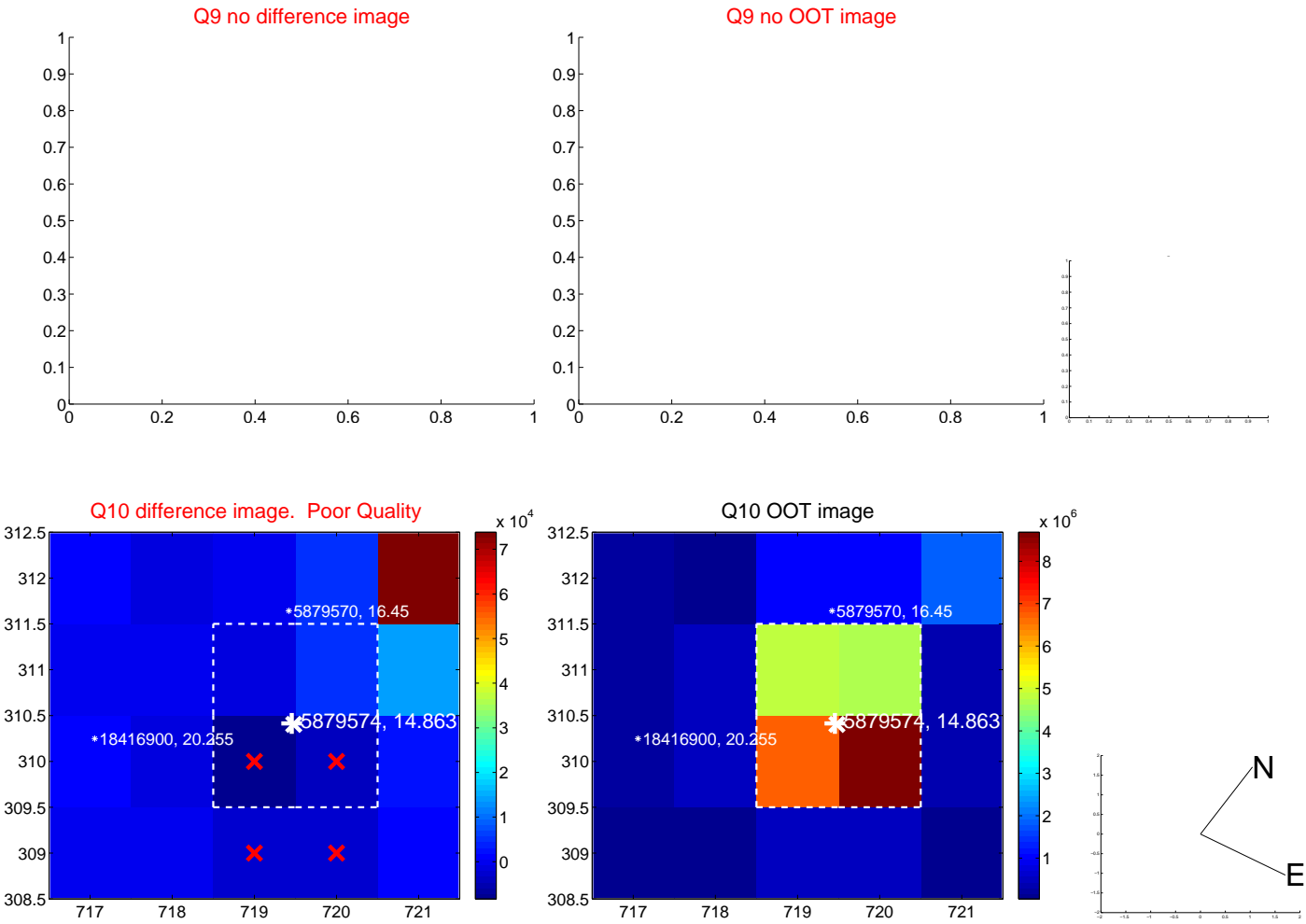
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



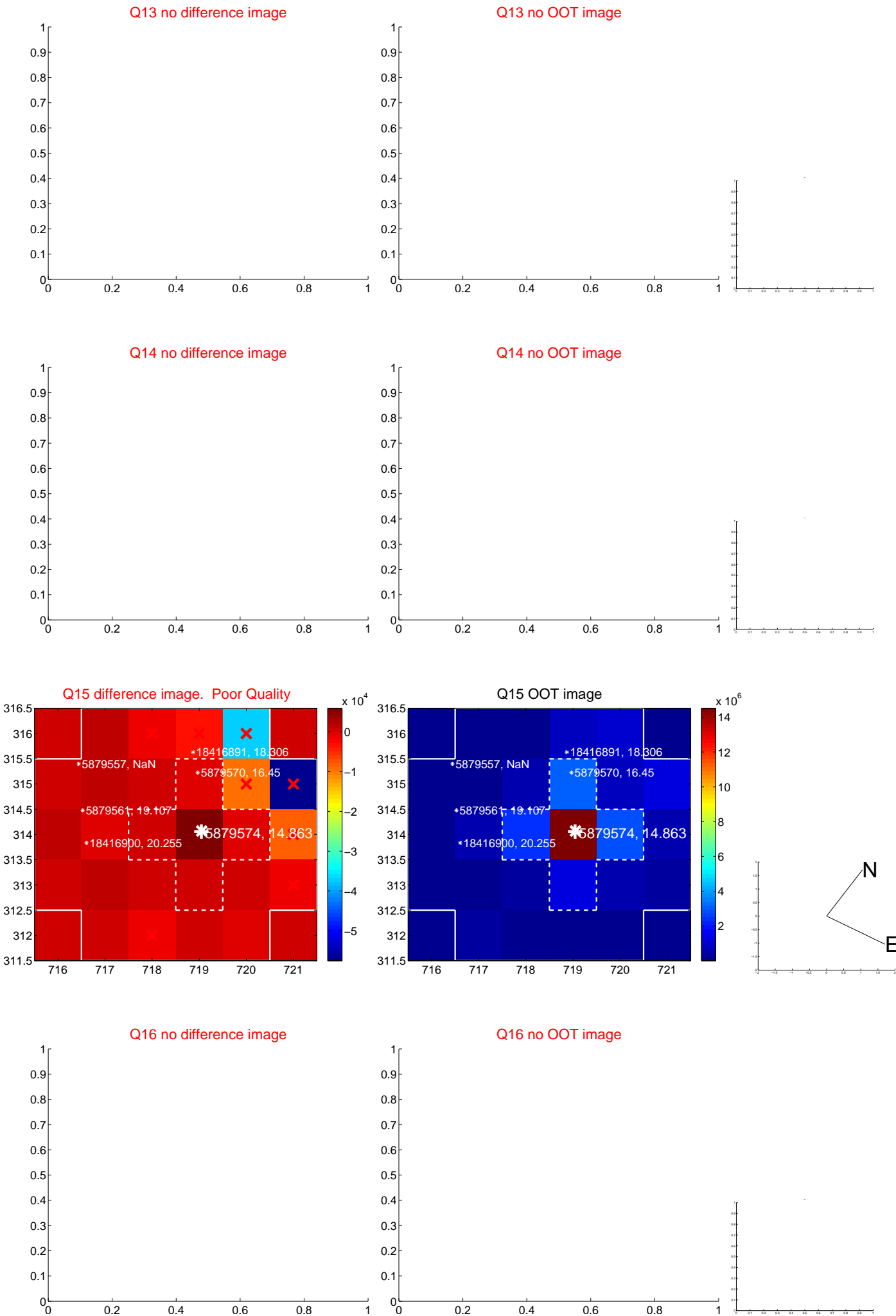
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



white ×: 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.



folded centroid time series figure for this object.

UKIRT Image

Declination

