

KIC 003556200

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})
003556200-01	OBS	No	2.573356	133.819077	3.7	20.343	8.5	0.7	0.95	6109	0.18	881.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003556200-01	OBS	FP	0.00	1	0	0	0	LPP_DV

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

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

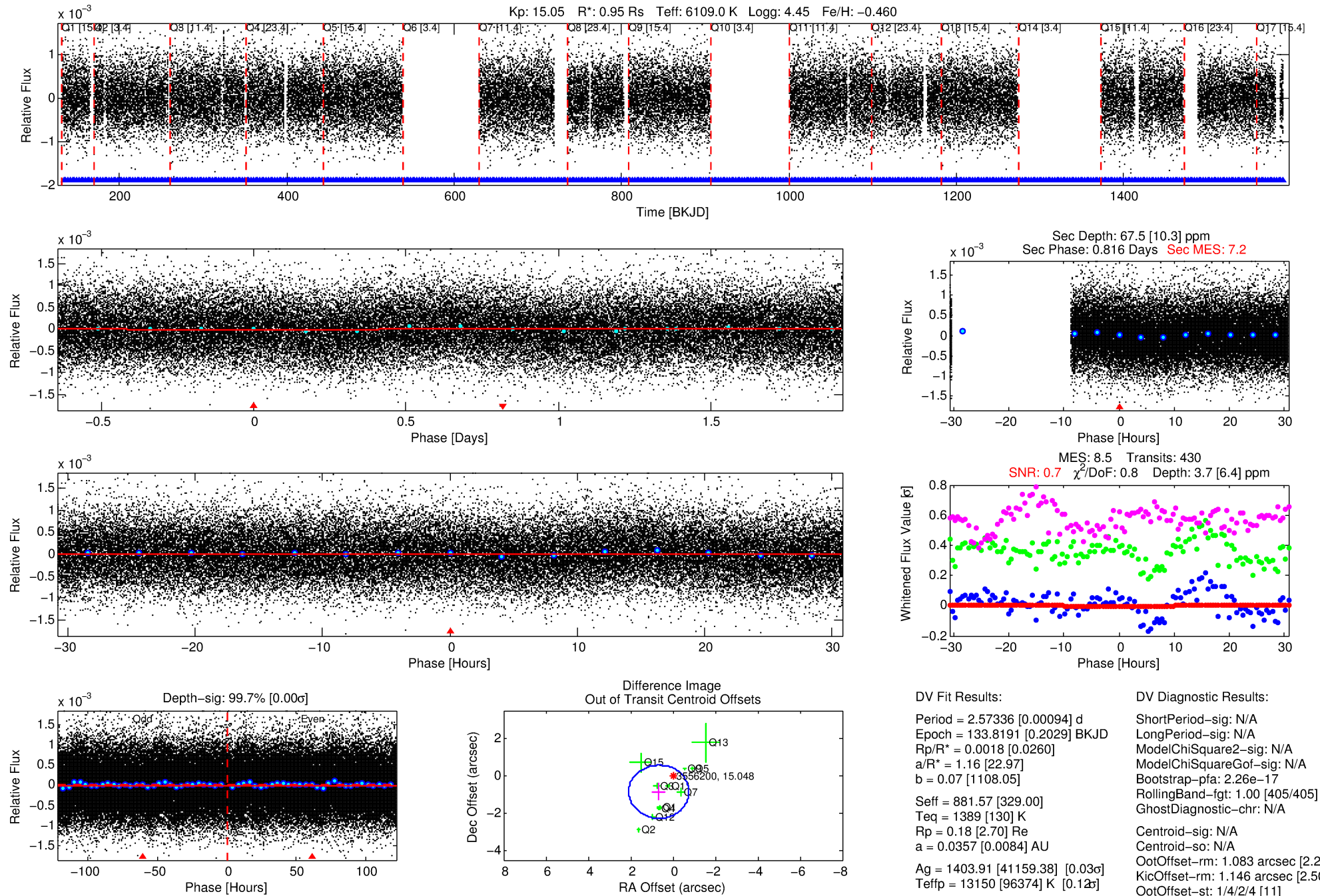
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003556200-01

No Significant Match Found

DV One-Page Summary

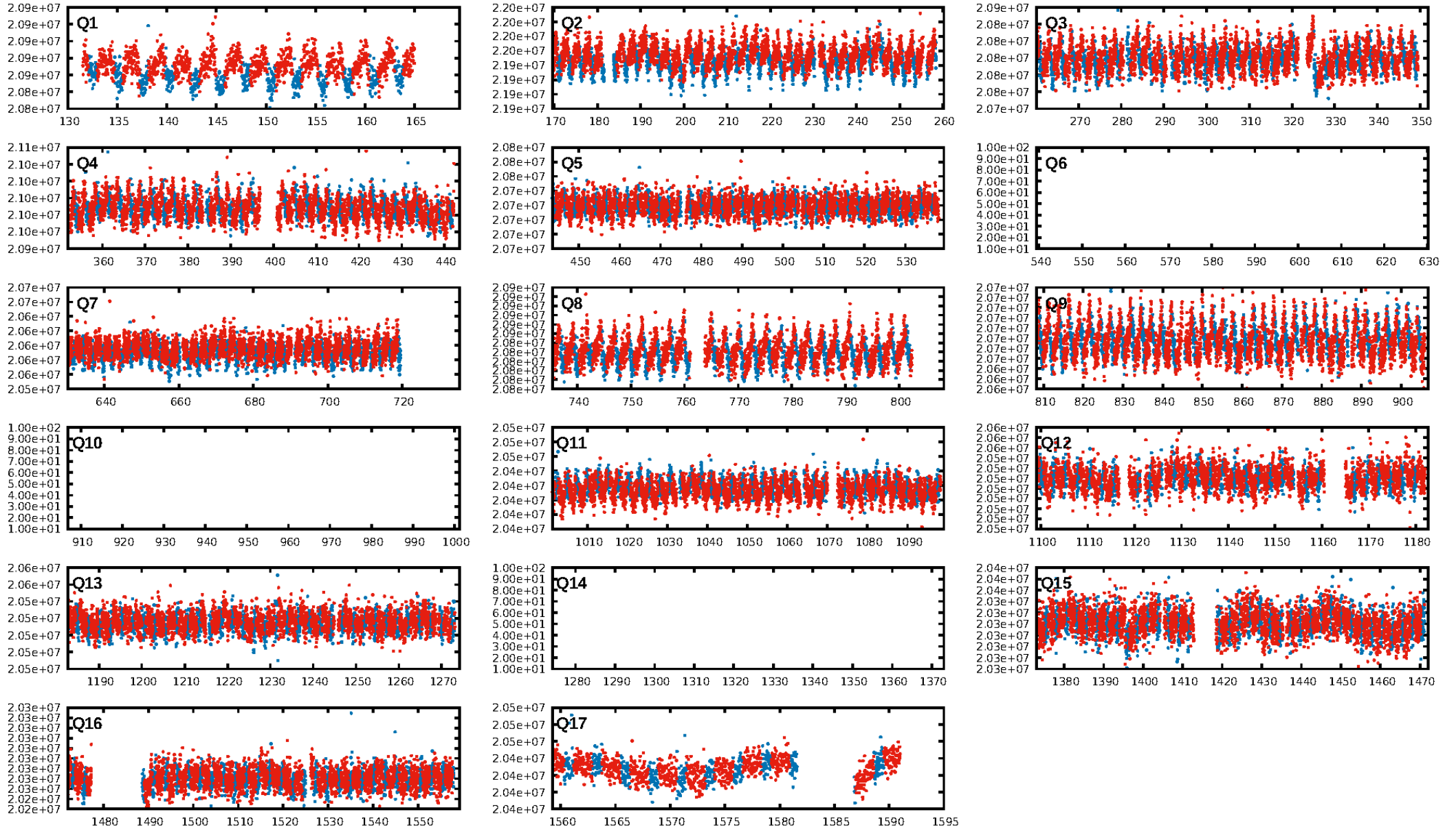
KIC: 3556200 Candidate: 1 of 1 Period: 2.573 d



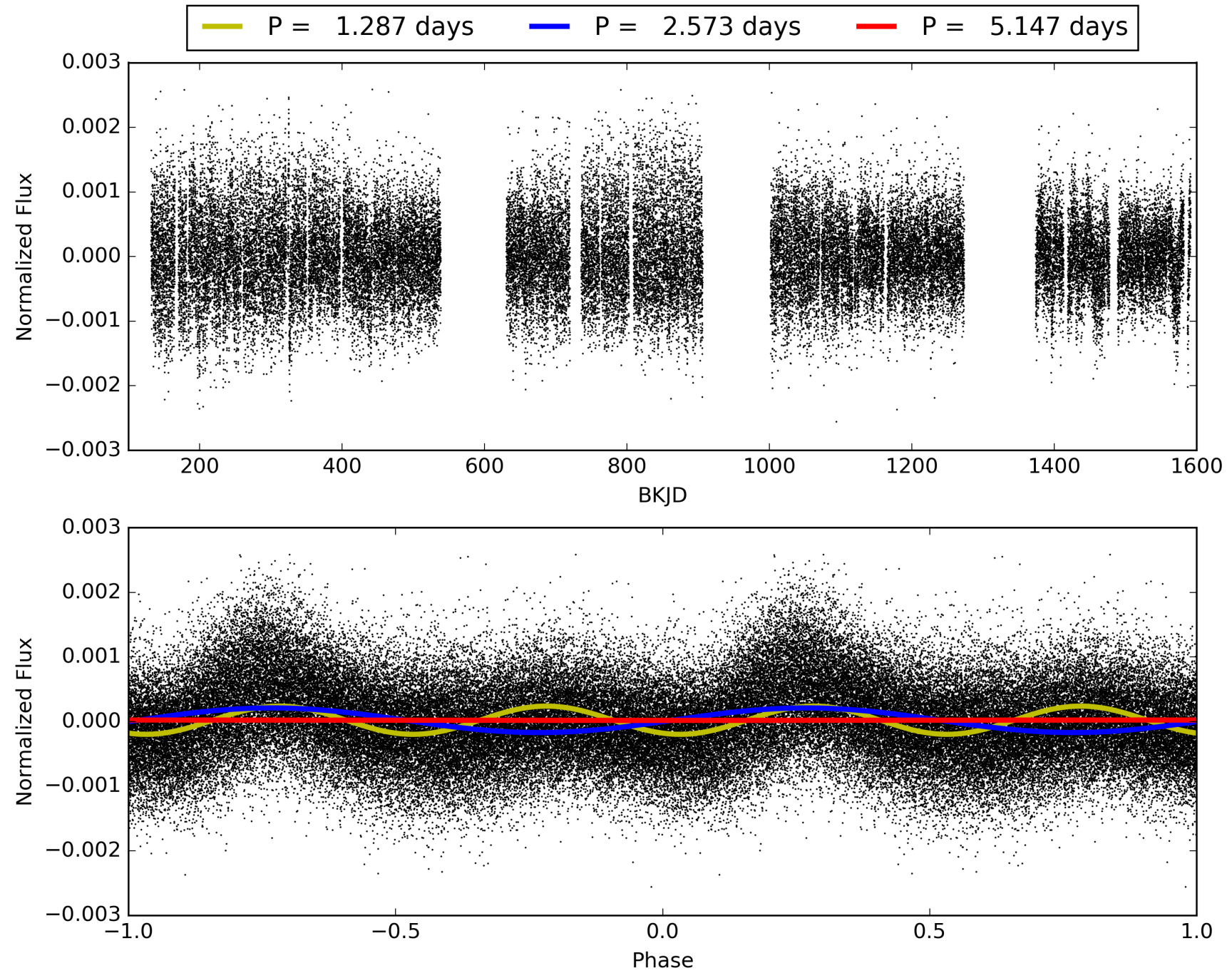
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 11:40:57 Z

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

TCE 003556200-01, PDC Light Curves

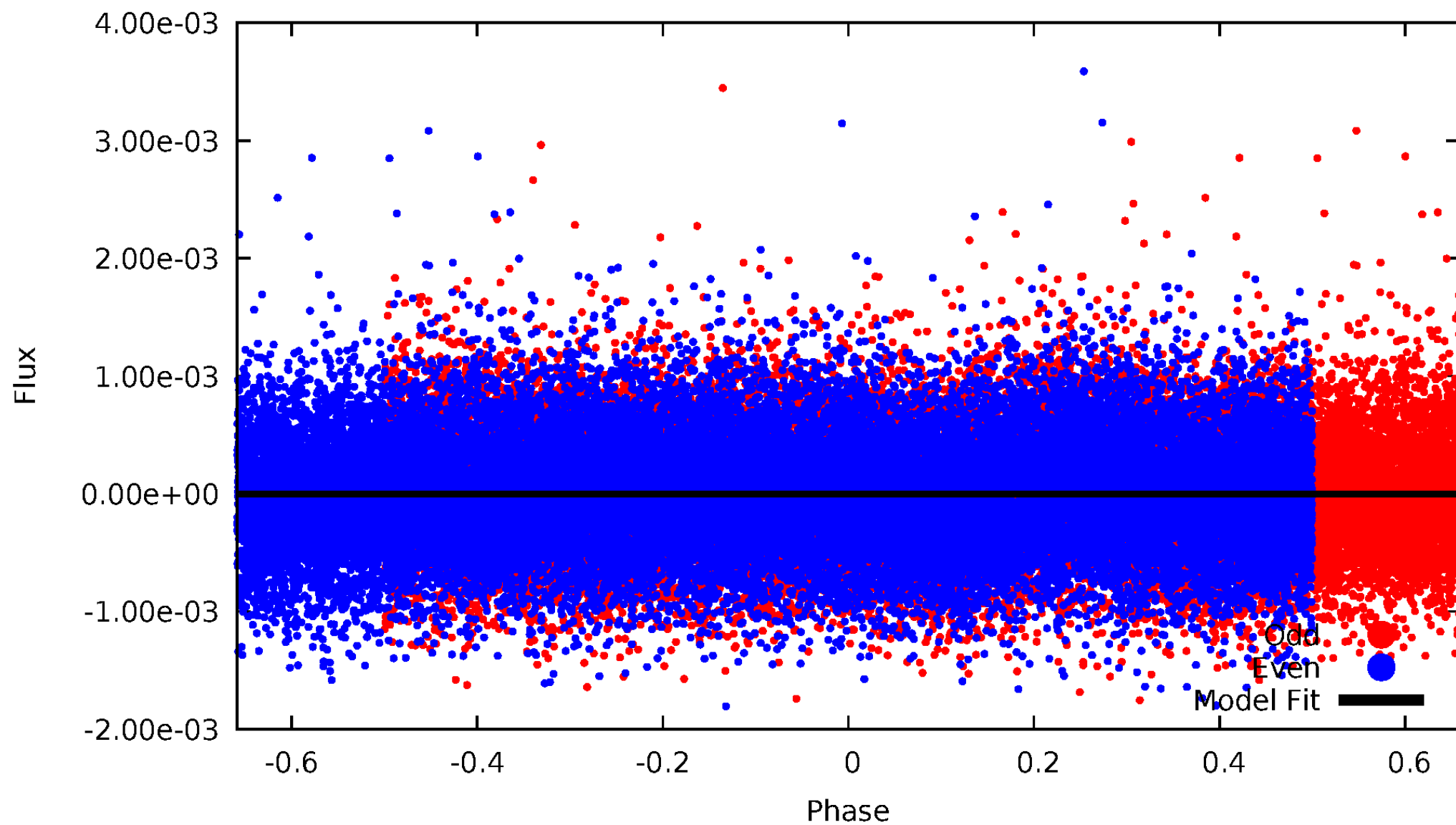


TCE 003556200-01



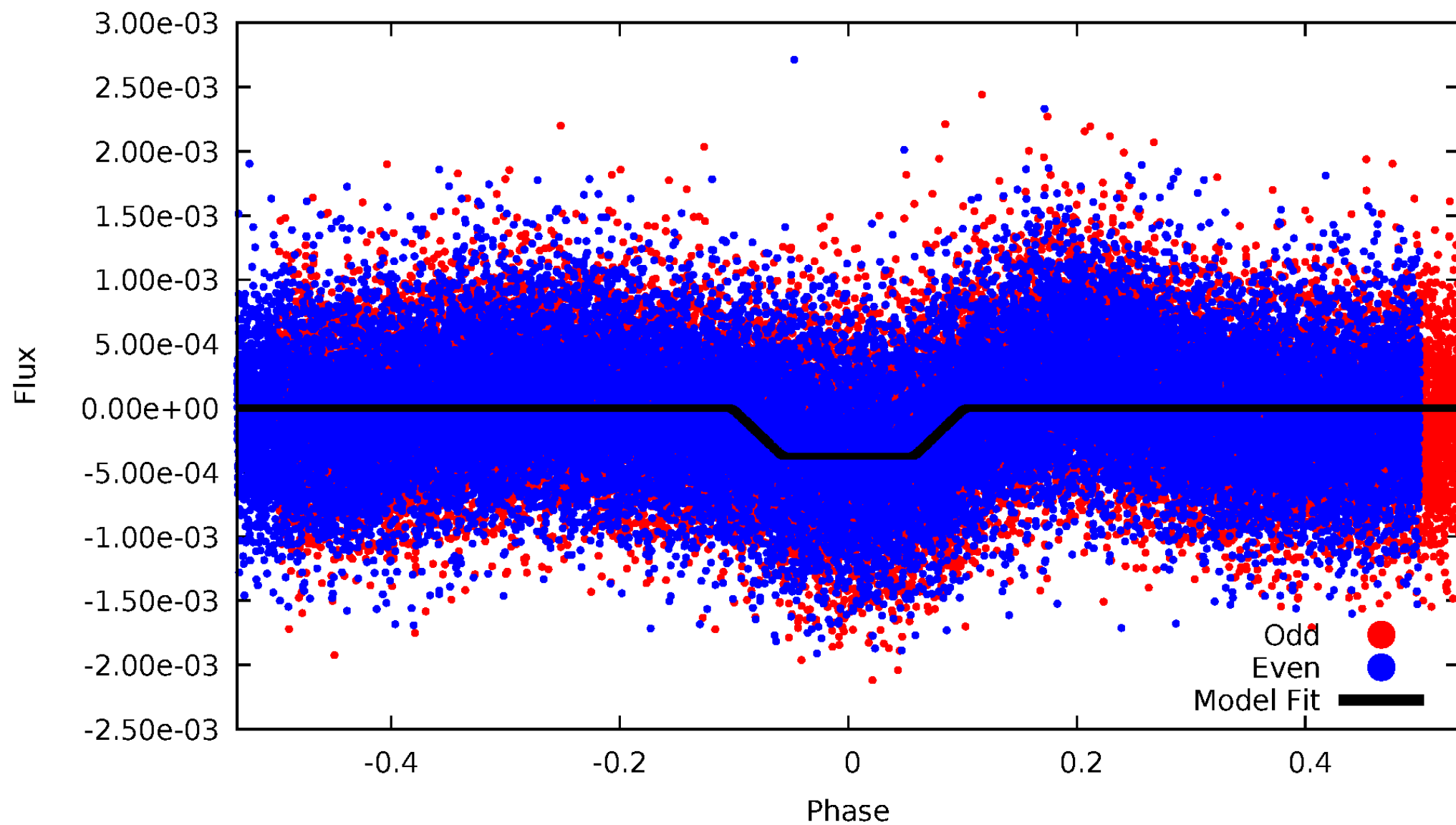
DV Odd/Even

TCE 003556200-01



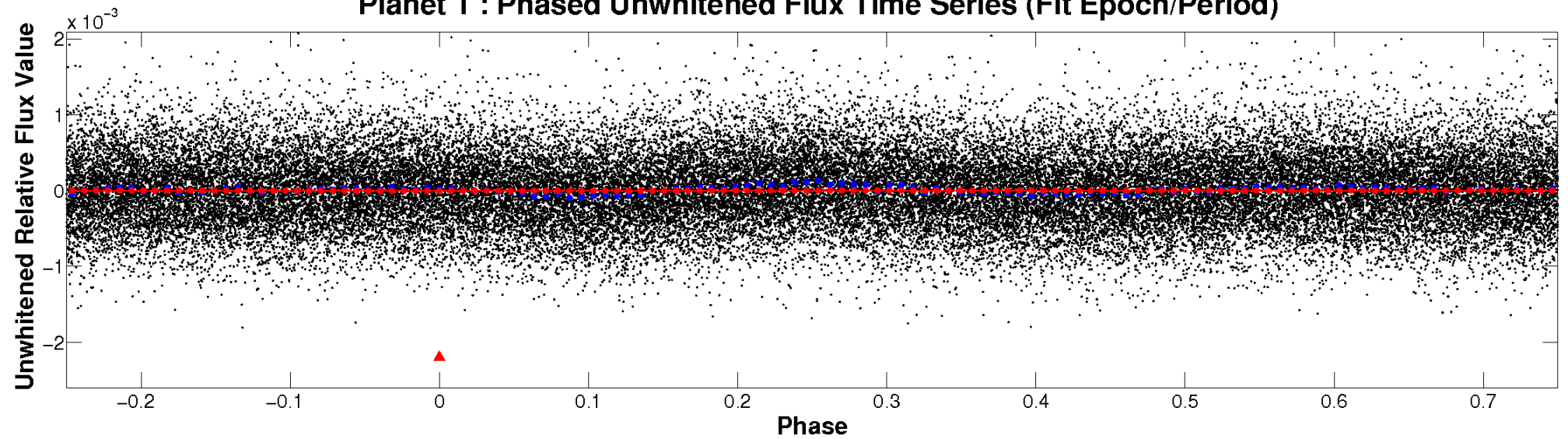
ALT Odd/Even

TCE 003556200-01

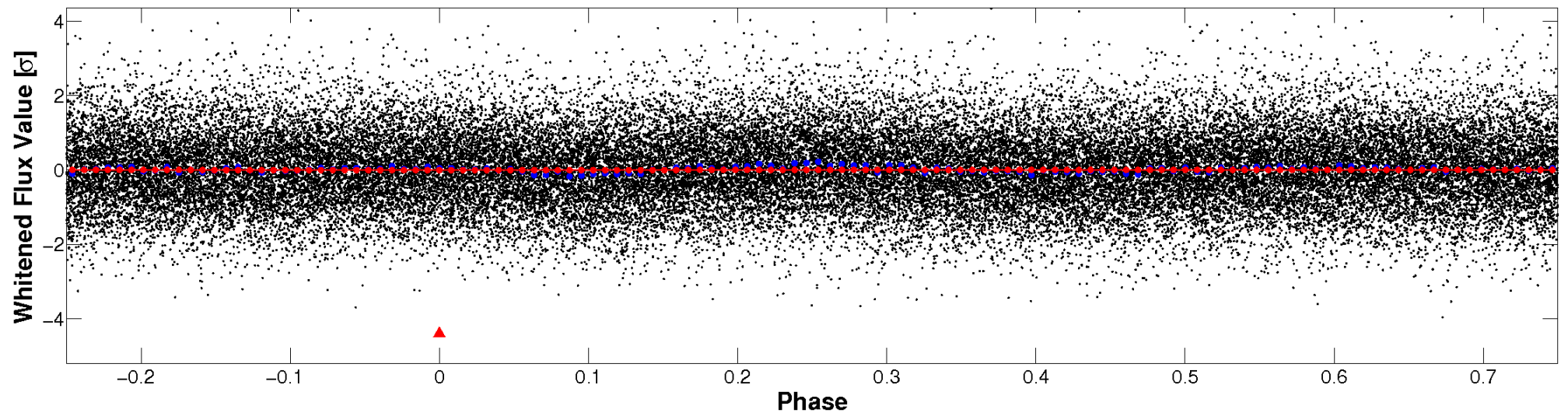


Non-Whitened Vs. Whitened Light Curve

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

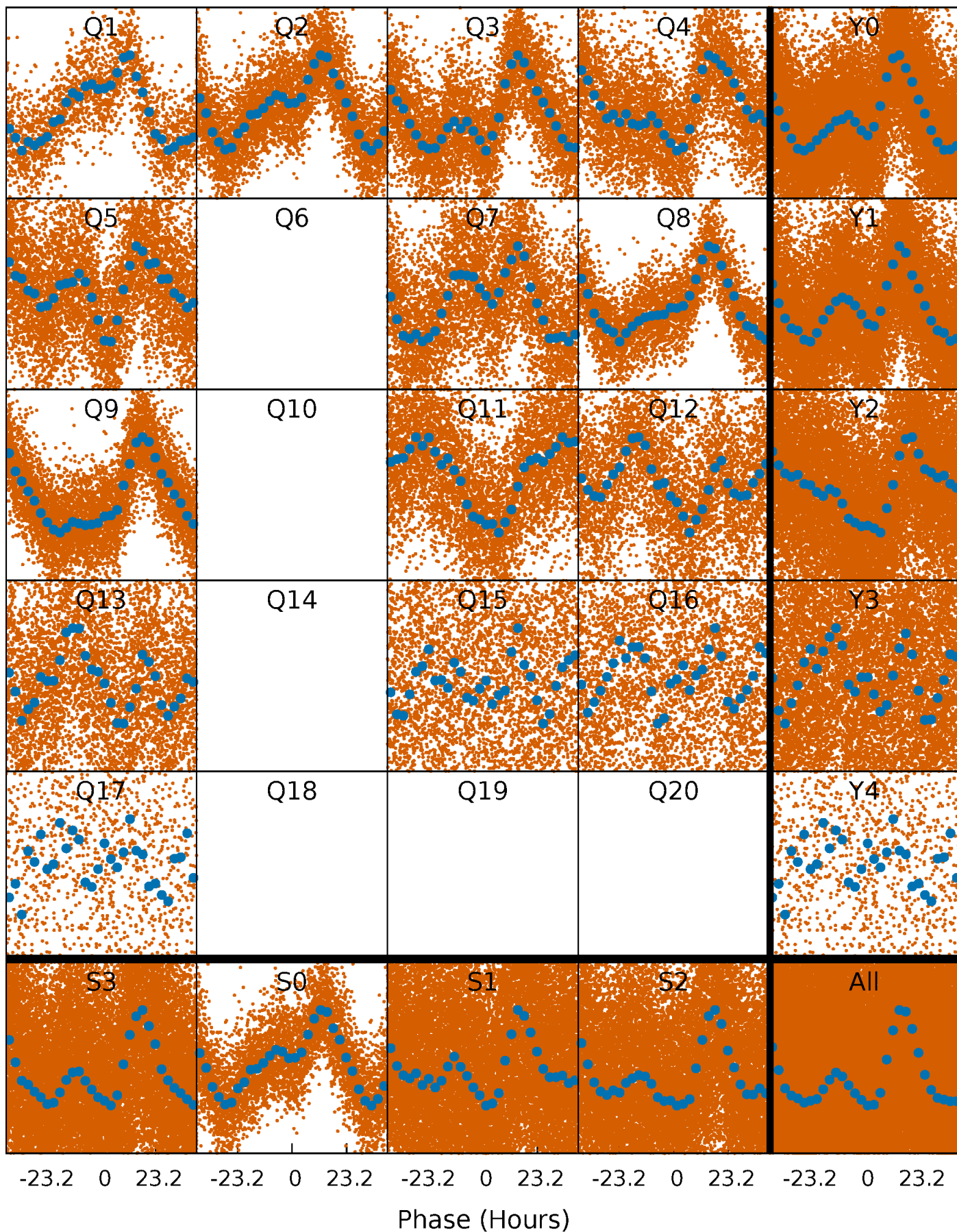


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



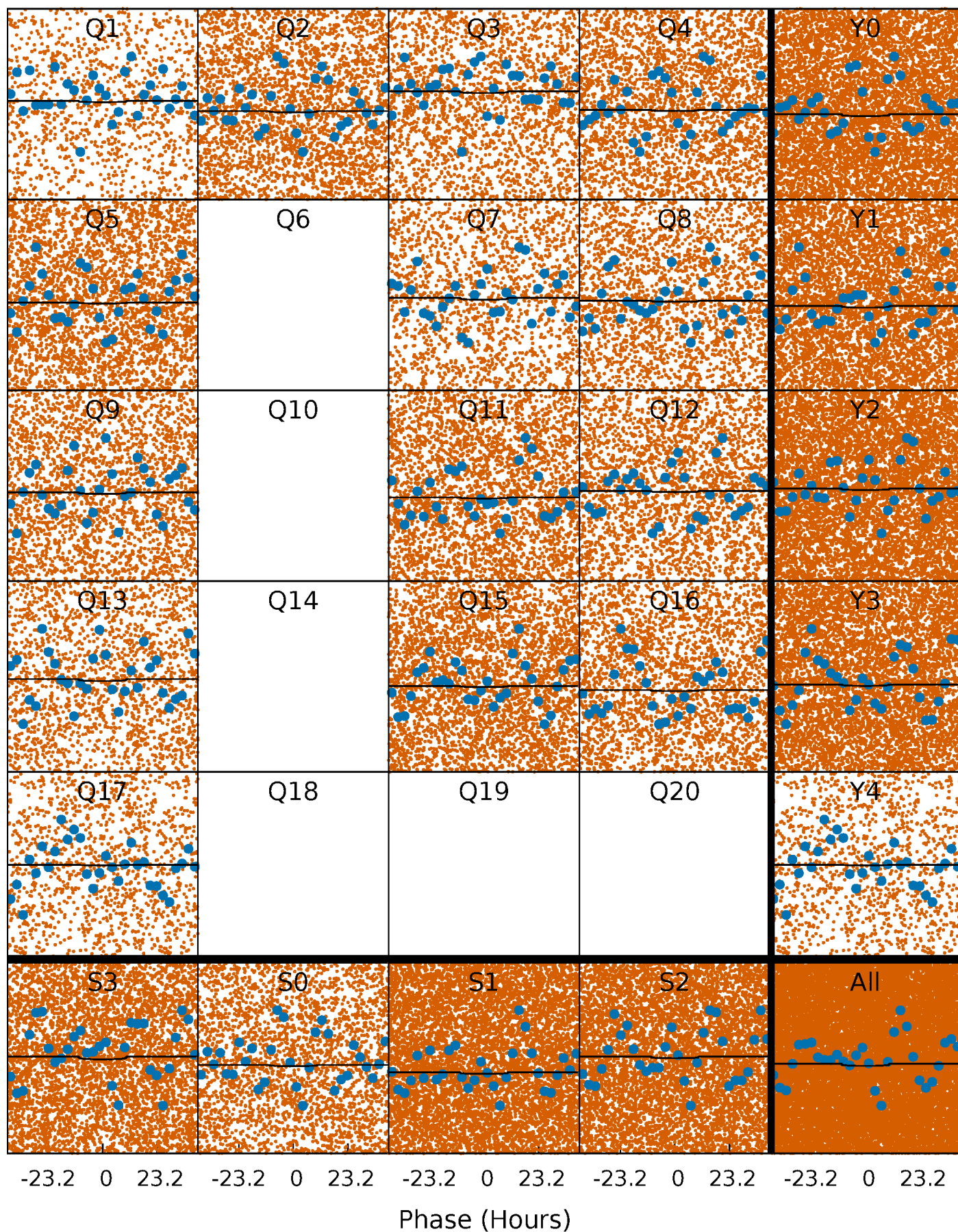
PDC Quarter-Phased Transit Curves

TCE 003556200-01 P= 2.573356 Days $T_0=133.819077$ (BKJD)



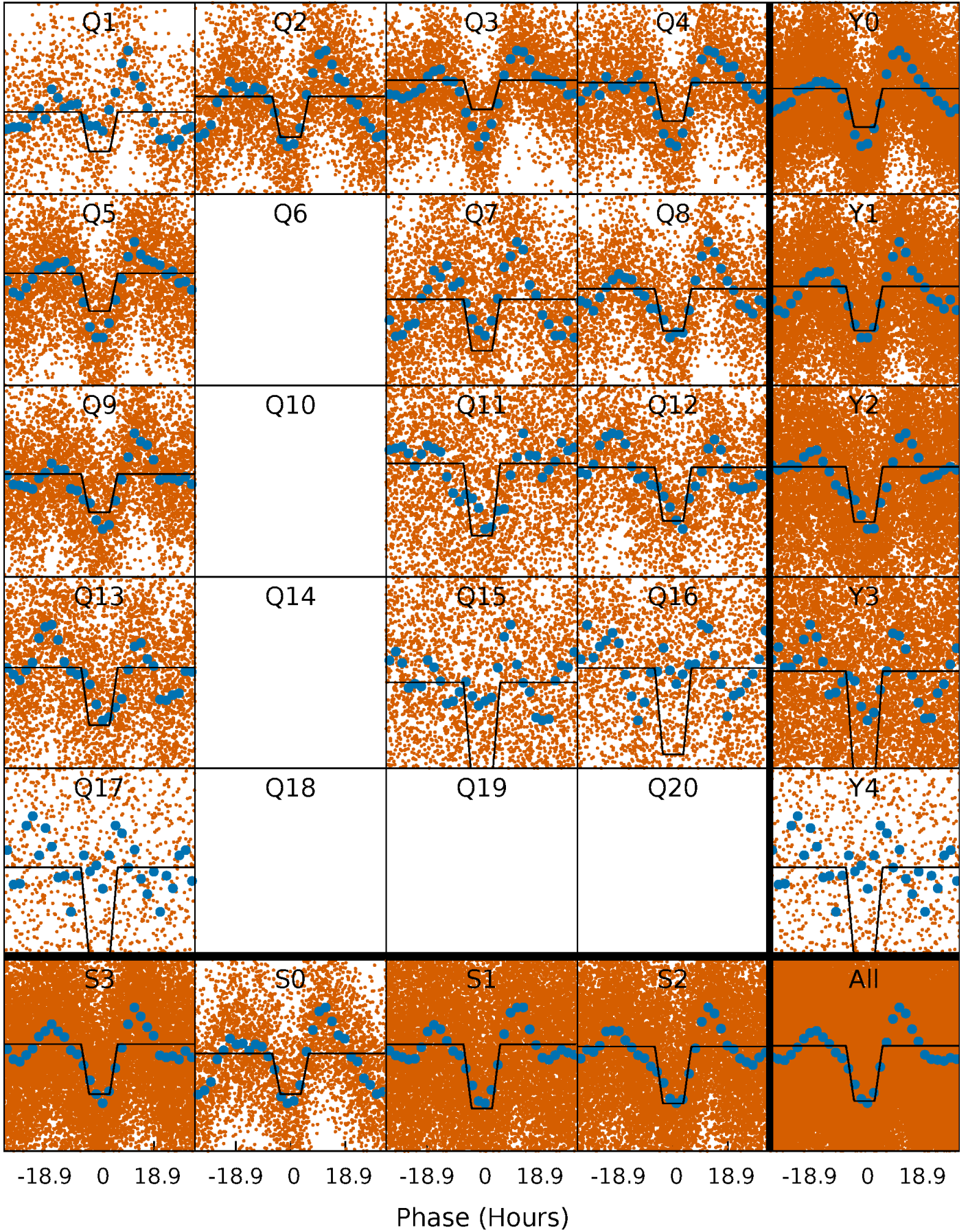
DV Quarter-Phased Transit Curves

TCE 003556200-01 P= 2.573356 Days $T_0=133.819077$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

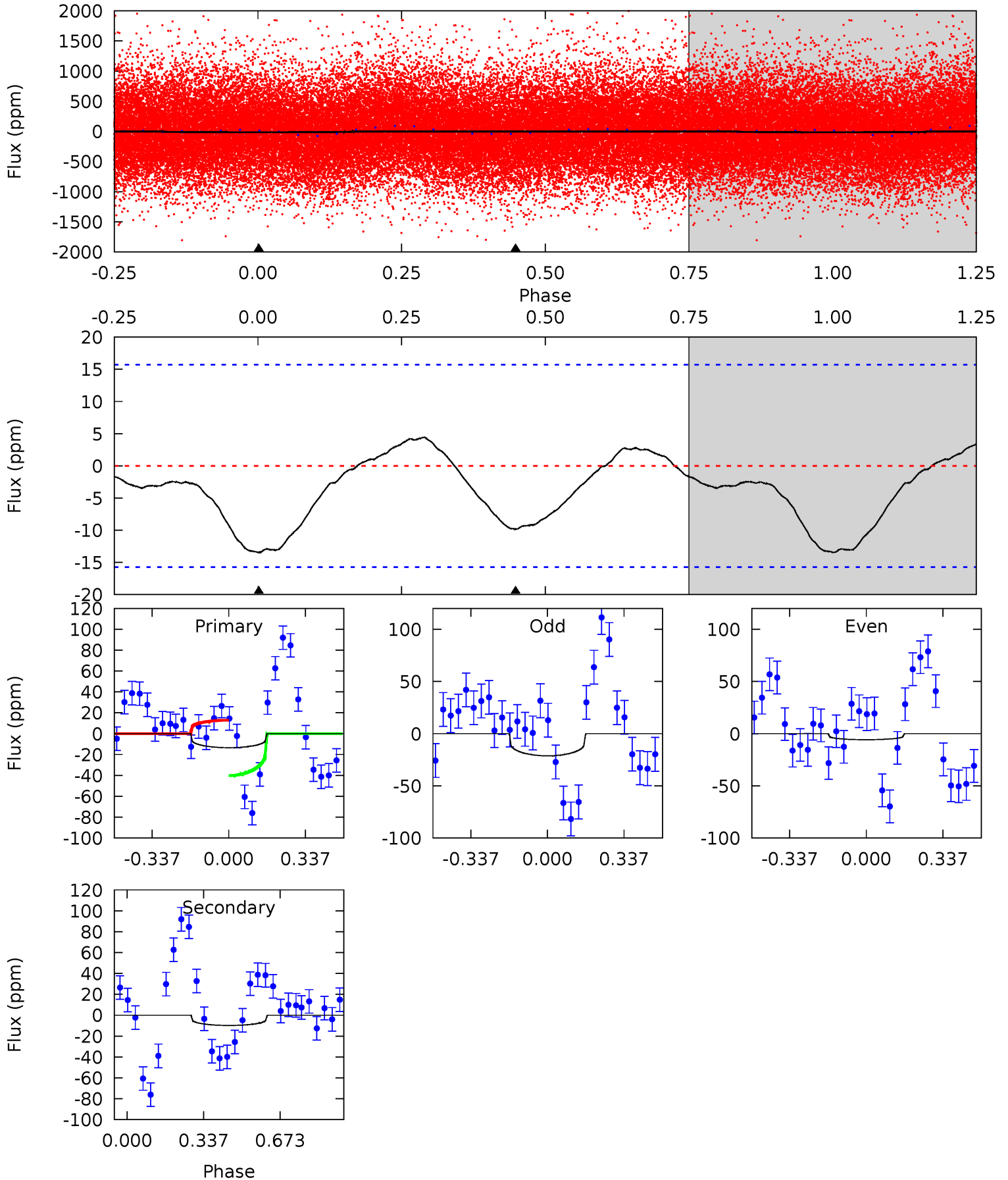
TCE 003556200-01 P= 2.573669 Days $T_0=133.908563$ (BKJD)



DV Model-Shift Uniqueness Test

003556200-01, P = 2.573356 Days, E = 131.245721 Days

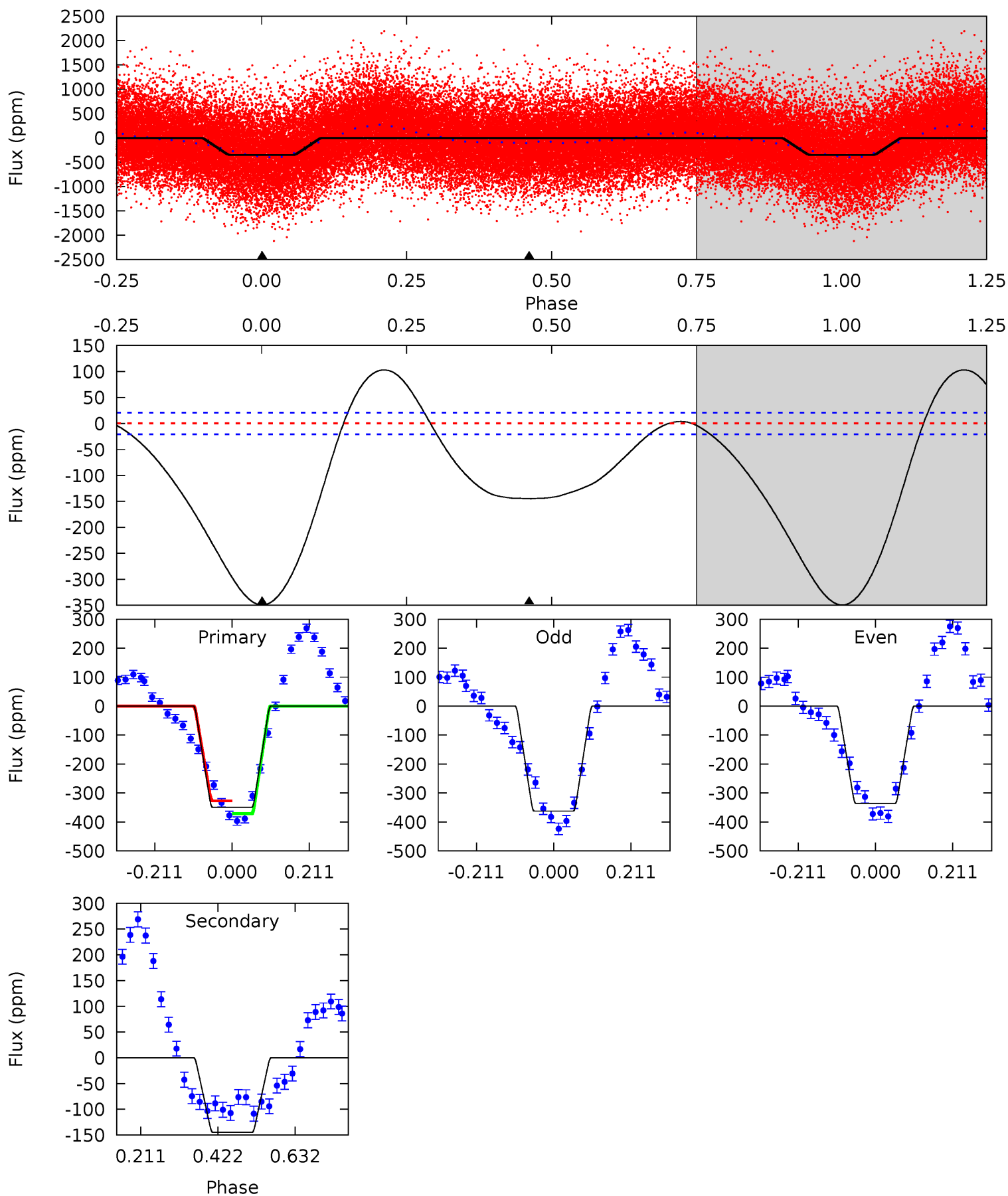
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.69	2.69	0	0	4.30	0.96	0.48	3.69	3.69	2.69	2.69	2.11	1.53	0.25	3.78



Alt Model-Shift Uniqueness Test

003556200-01, P = 2.573669 Days, E = 131.334894 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
74.1	30.7	0	0	4.41	1.25	9.44	74.1	74.1	30.7	30.7	2.84	1.03	0.23	4.65



Stellar Parameters For KIC 003556200

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6109^{+193}_{-193}	$4.446^{+0.084}_{-0.196}$	$-0.460^{+0.300}_{-0.300}$	$0.950^{+0.258}_{-0.119}$	$0.920^{+0.118}_{-0.096}$	$1.510^{+0.663}_{-0.743}$
	+3%/-3%	+2%/-4%	+65%/-65%	+27%/-13%	+13%/-10%	+44%/-49%
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 003556200-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-10 ± 4	$1.82^{+2.27}_{-1.27}$	1971^{+144}_{-105}	3107^{+1734}_{-1116}	$1.852^{+18.870}_{-1.514}$
Alt.	-145 ± 5	$2.90^{+2.54}_{-1.93}$	1968^{+138}_{-100}	4300^{+2737}_{-881}	12^{+94}_{-9}

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

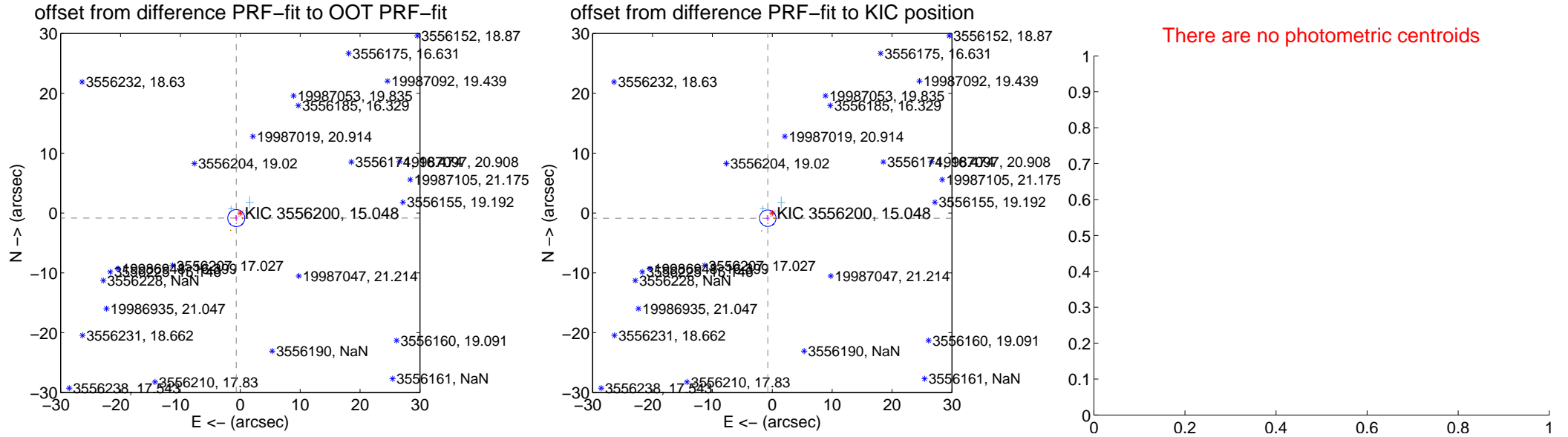
DV Centroid Data

Supplemental centroid analysis for 003556200-01. Kepler magnitude: 15.05. Transit SNR 0.68

There are 8 quarters with good PRF difference image offsets

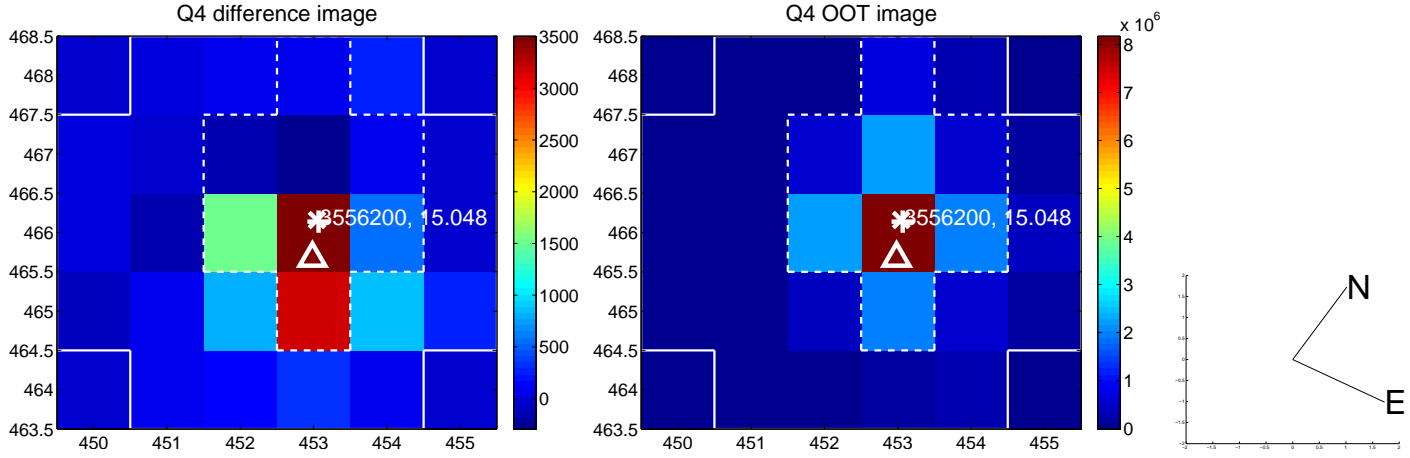
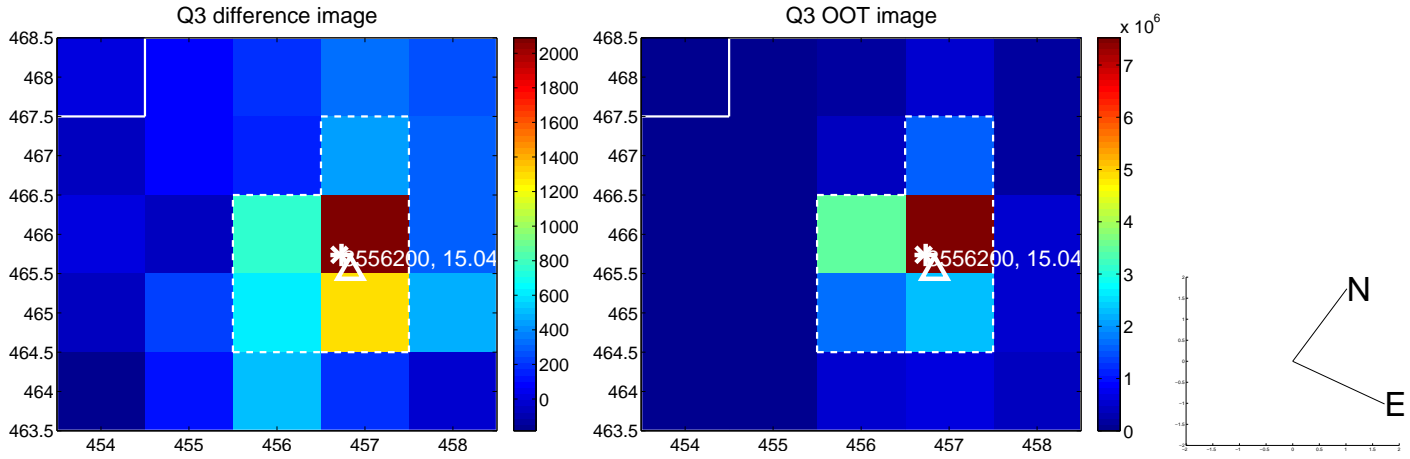
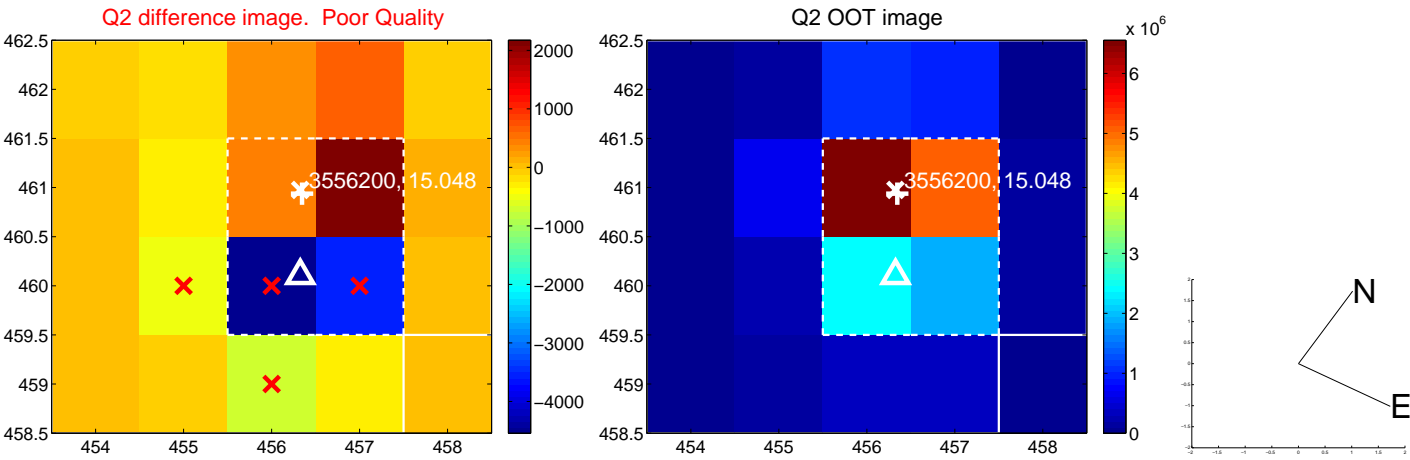
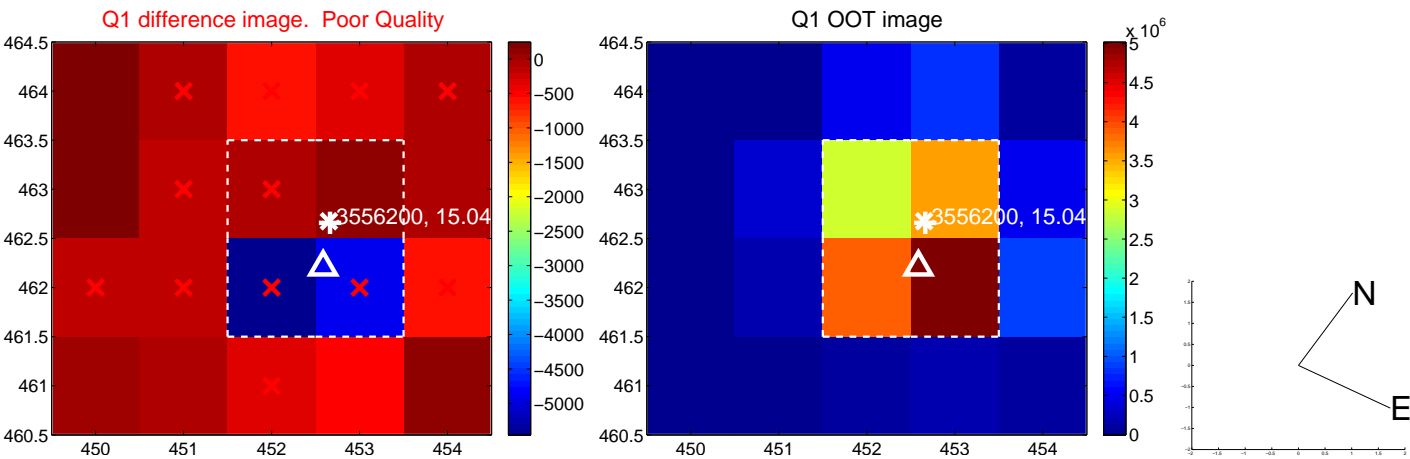
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.083 ± 0.474	2.28	0.671 ± 0.299	-0.850 ± 0.418
PRF-fit source offset from KIC position	1.146 ± 0.459	2.50	0.750 ± 0.317	-0.867 ± 0.396
photometric centroid source offset	—	—	—	—

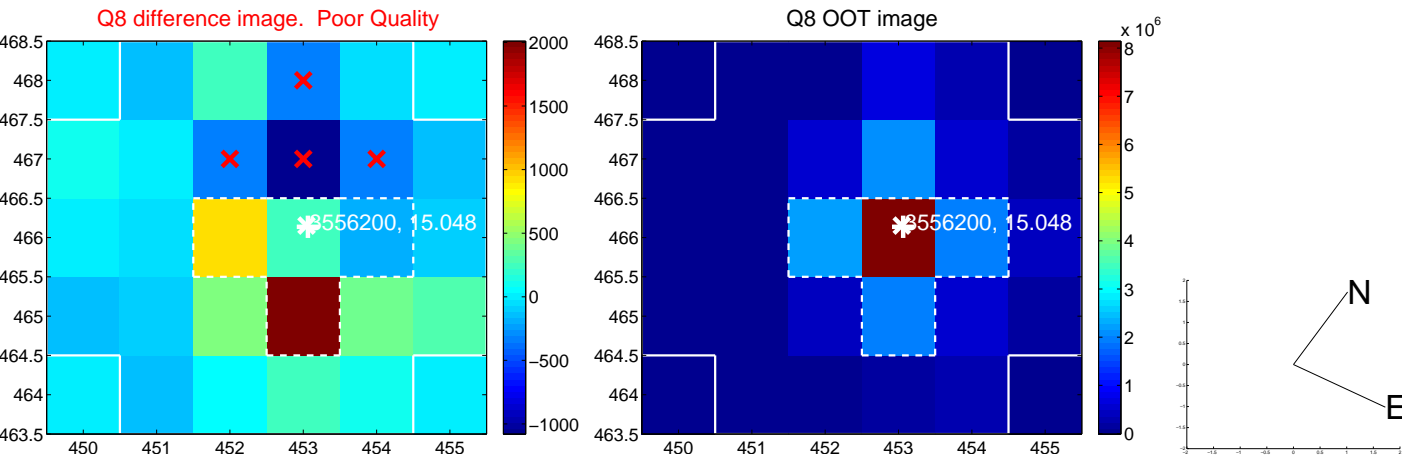
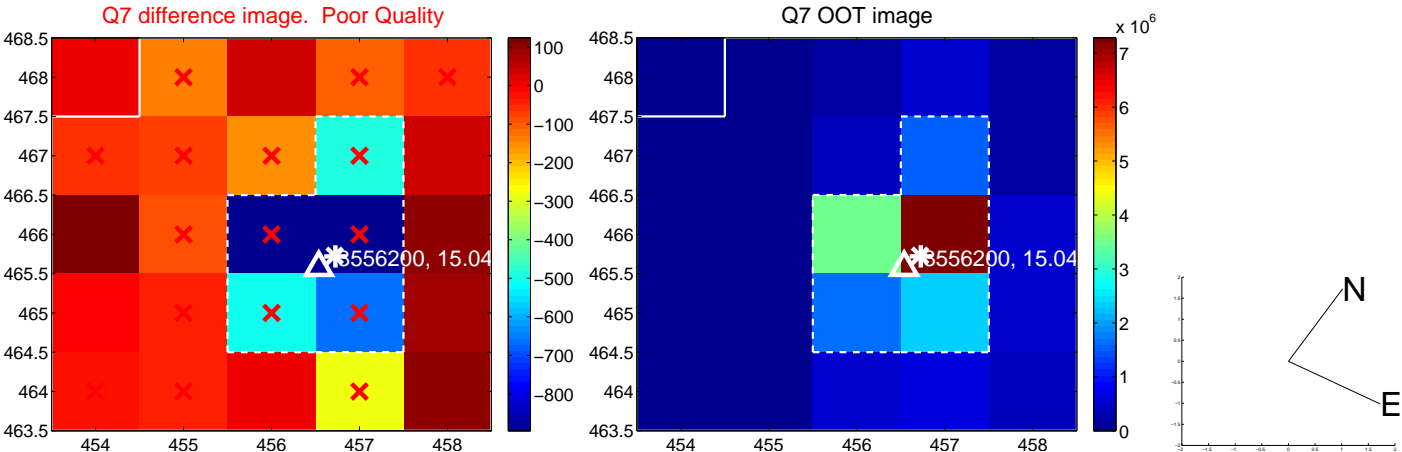
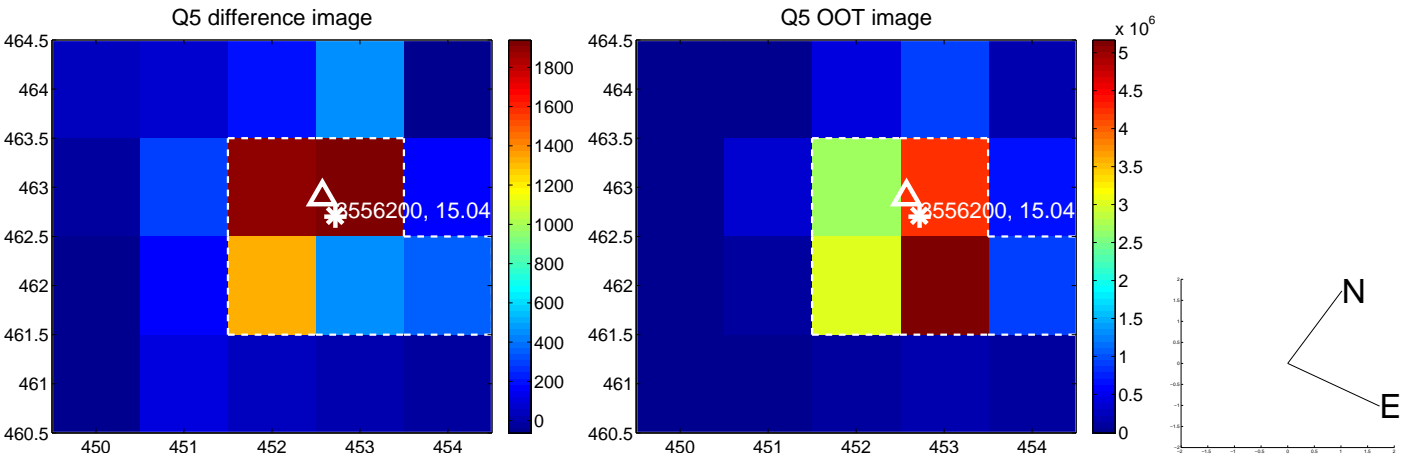


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

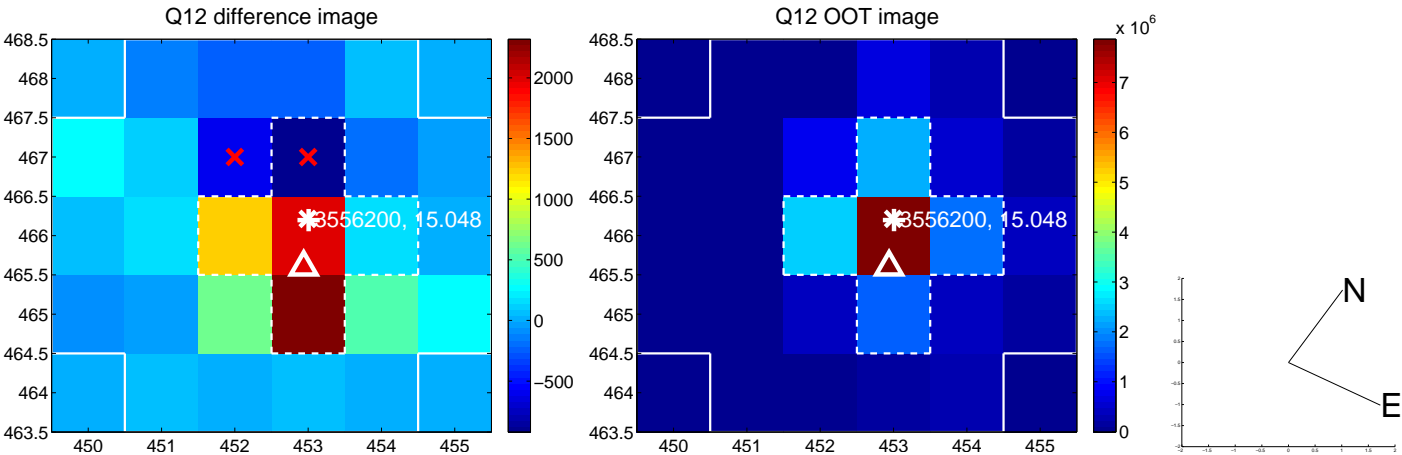
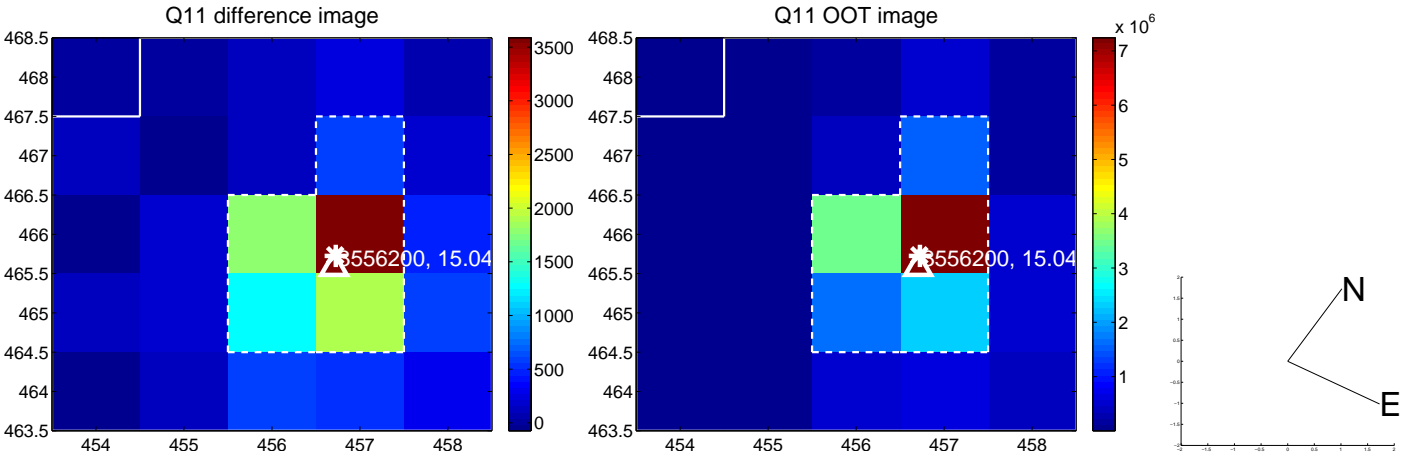
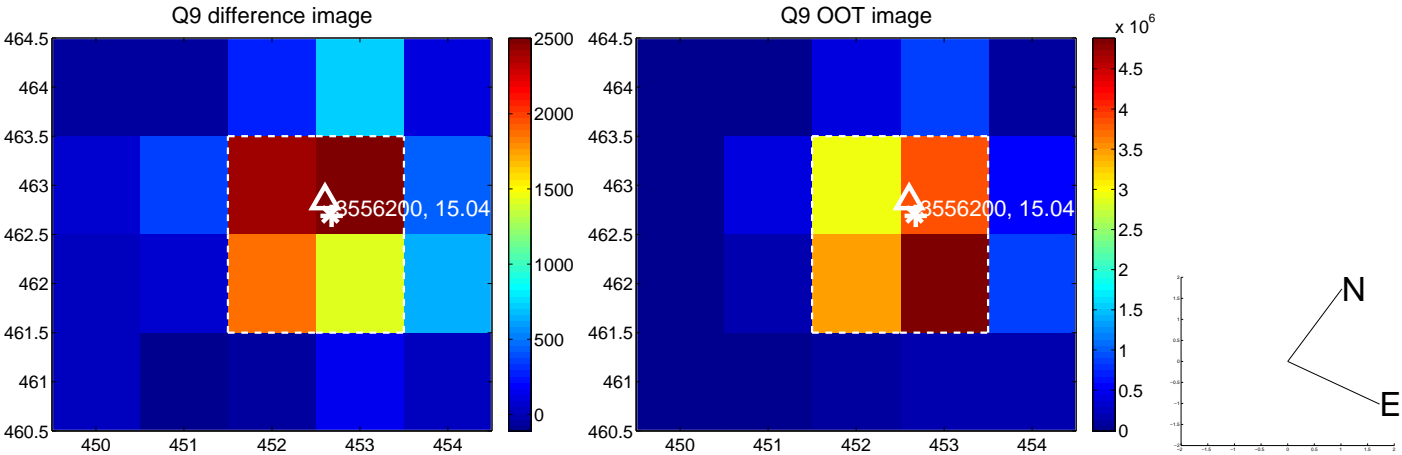
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



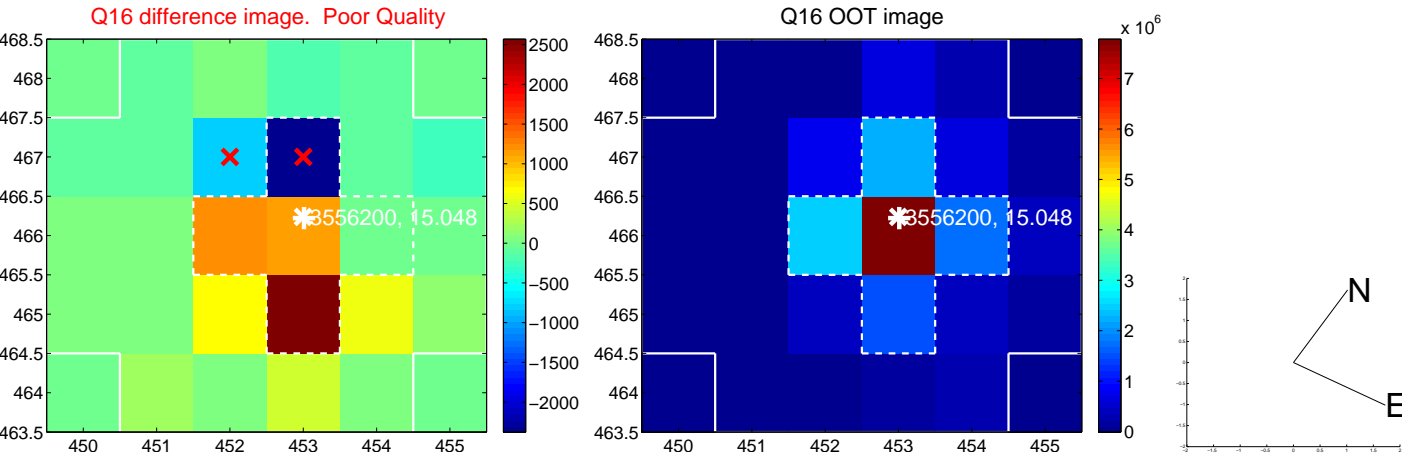
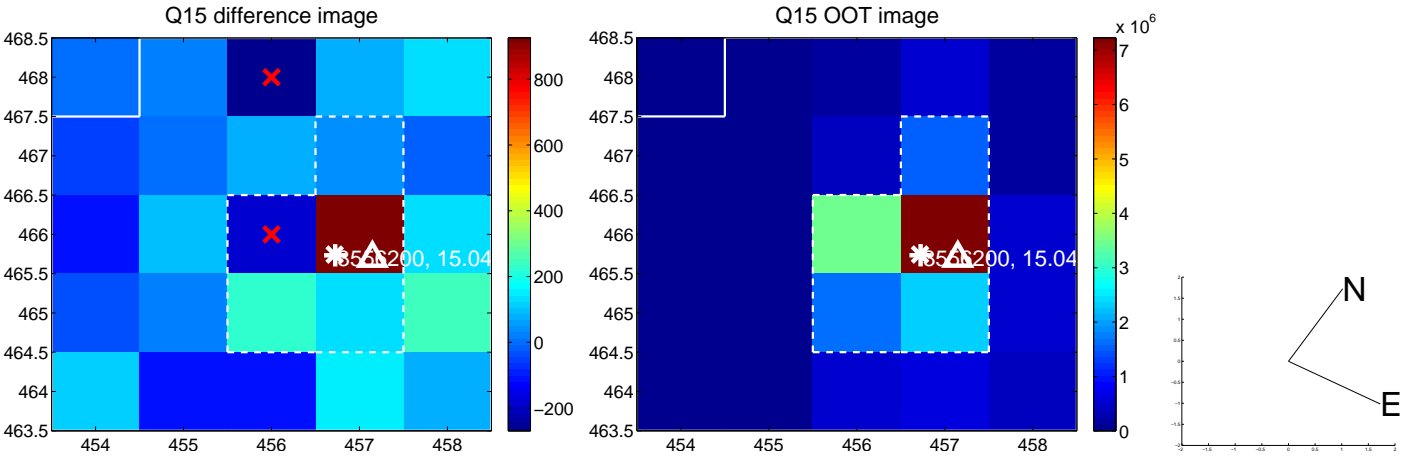
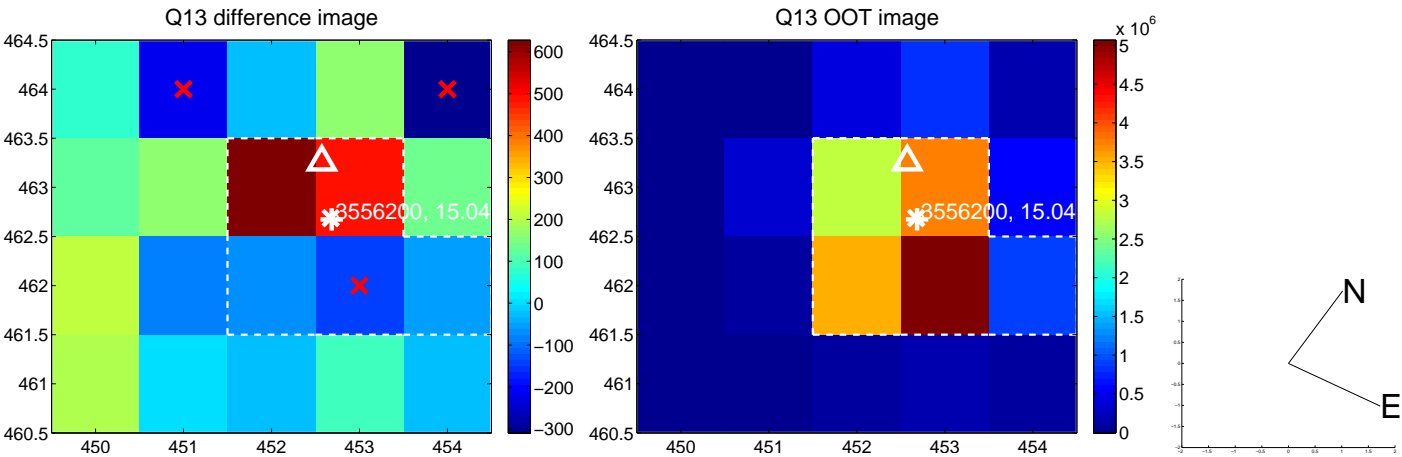
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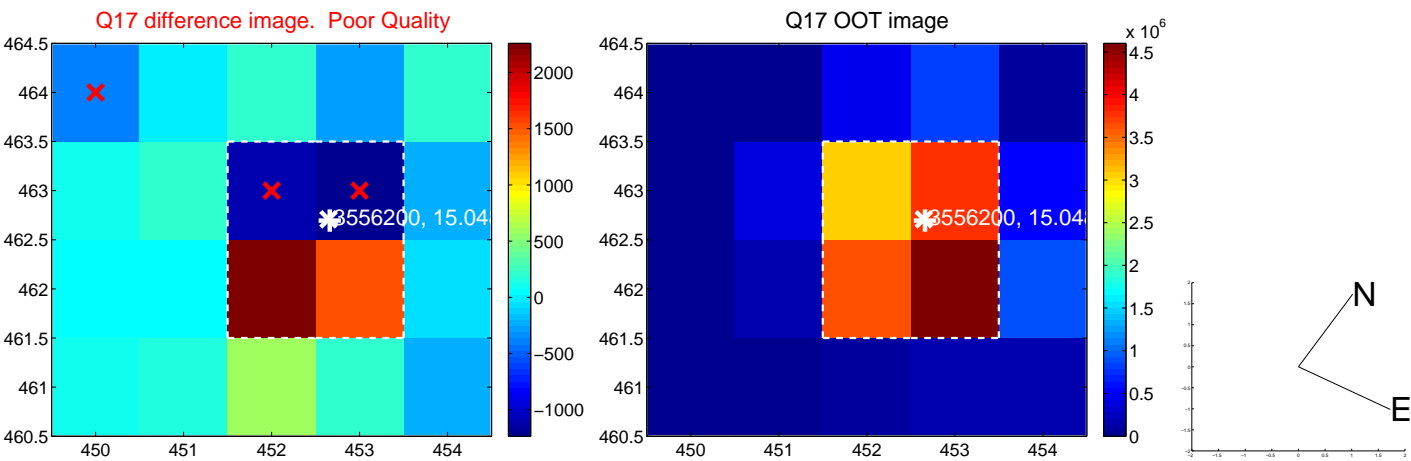
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folded centroid time series figure for this object.

UKIRT Image

Declination

