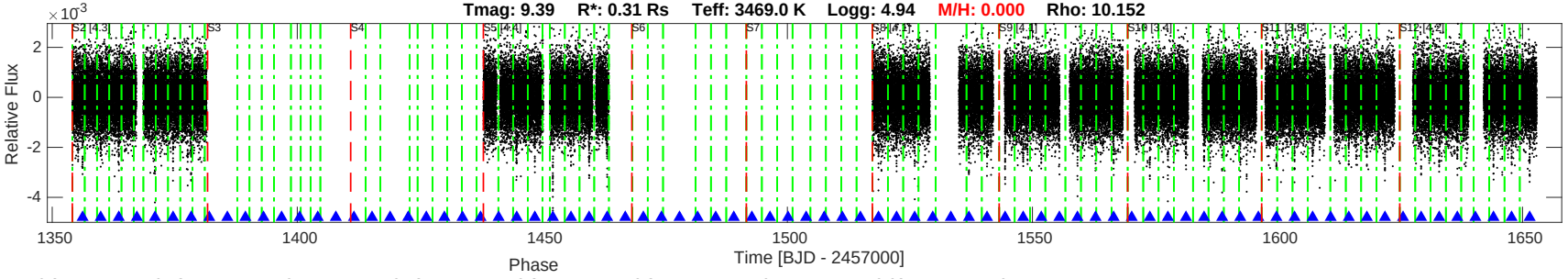
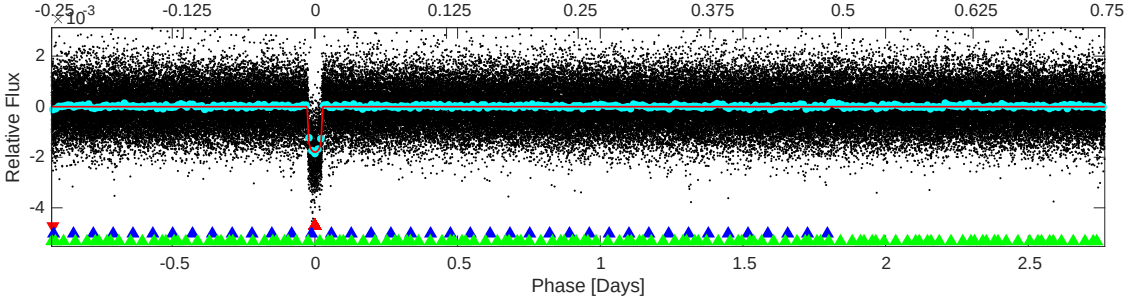
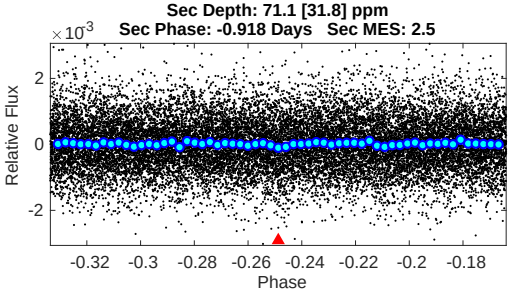
TIC: 307210830 Candidate: 1 of 3 Period: 3.691 d
TOI: 175.01 Corr: 0.984

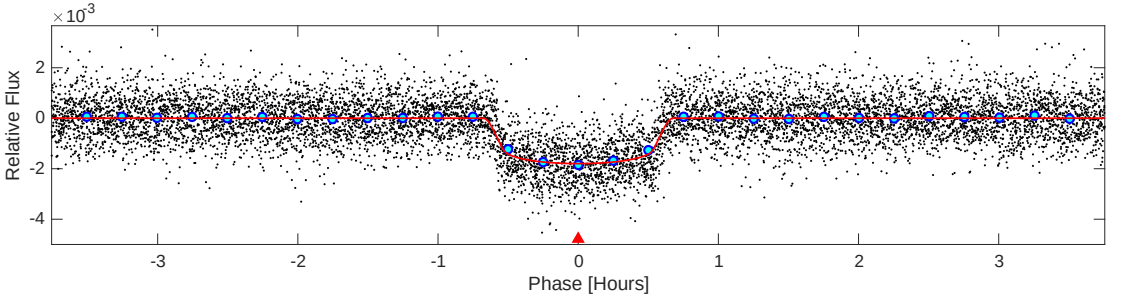
Tmag: 9.39 R*: 0.31 Rs Teff: 3469.0 K Logg: 4.94 M/H: 0.000 Rho: 10.152



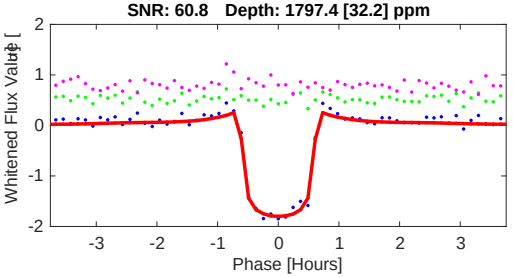


Sec Depth: 71.1 [31.8] ppm
Sec Phase: -0.918 Days Sec MES: 2.5

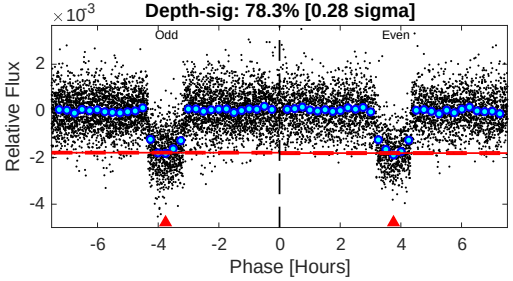




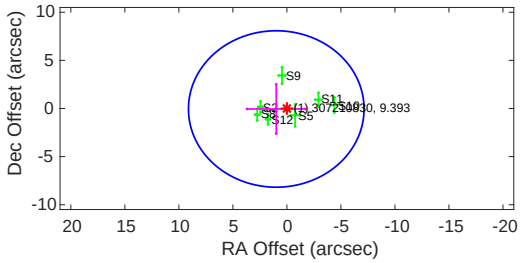
MES: 51.3 Transits: 42
SNR: 60.8 Depth: 1797.4 [32.2] ppm



Depth-sig: 78.3% [0.28 sigma]



Difference Image
TIC Position Centroid Offsets



DV Fit Results:

Period = 3.69064 [0.00001] d
Epoch = 1356.2031 [0.0003] BTJD
Rp/R* = 0.0401 [0.0038]
a/R* = 20.56 [10.60]
b = 0.50 [0.78]

Seff = 12.66 [1.53]
Teq = 481 [15] K
Rp = 1.37 [0.14] Re
a = 0.0317 [0.0016] AU
Rho = 8.577 [13.264]

Ag = 20.92 [10.35] [1.92 sigma]
Tp = 1591 [196] K [5.65 sigma]

DV Diagnostic Results:

ShortPeriod-sig: 100.0% [21.57 sigma]
LongPeriod-sig: 100.0% [59.72 sigma]
ModelChiSquare2-sig: 48.8%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
GhostDiagnostic-chr: 6.035

OotOffset-rm: 0.331 arcsec [0.13 sigma]
TicOffset-rm: 0.987 arcsec [0.36 sigma]
OotOffset-tot: 7
TicOffset-tot: 7

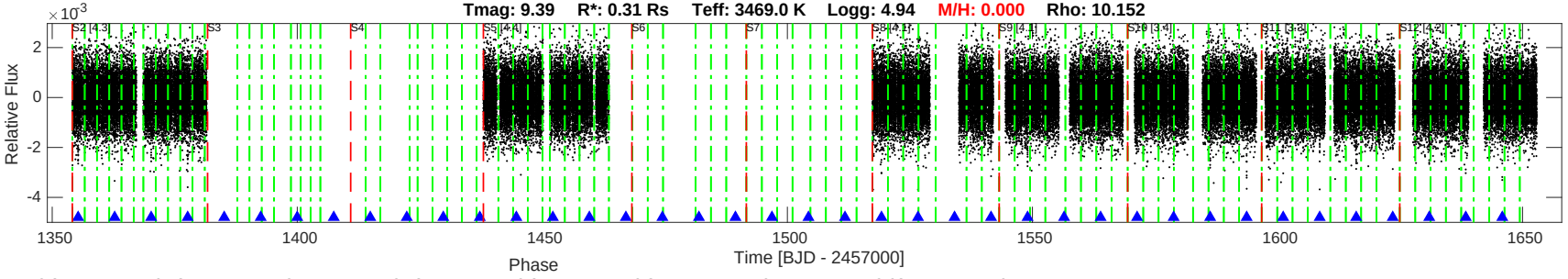
DiffImageQuality-fgm: 1.00 [7/7]
DiffImageOverlap-fno: 1.00 [7/7]

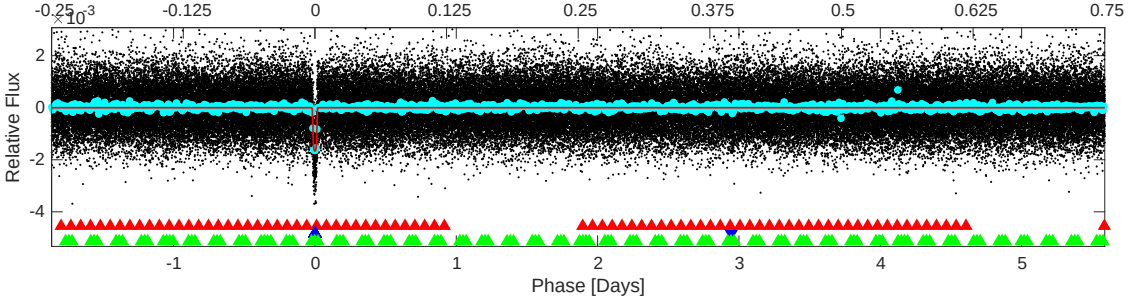
Software Revision: spoc-3.3.75-20190724 -- Date Generated: 07-Aug-2019 20:53:42 Z

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

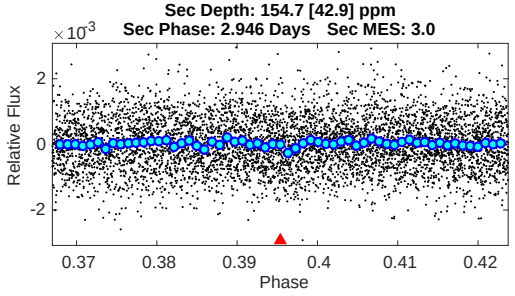
TIC: 307210830 Candidate: 2 of 3 Period: 7.451 d
TOI: 175.02 Corr: 0.955

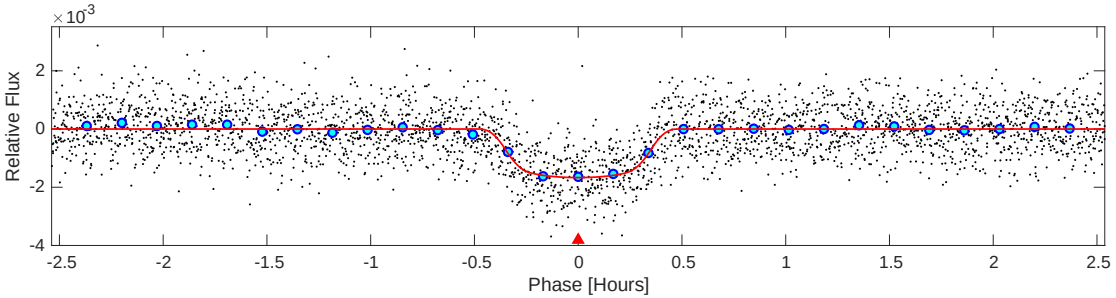
Tmag: 9.39 R*: 0.31 Rs Teff: 3469.0 K Logg: 4.94 M/H: 0.000 Rho: 10.152



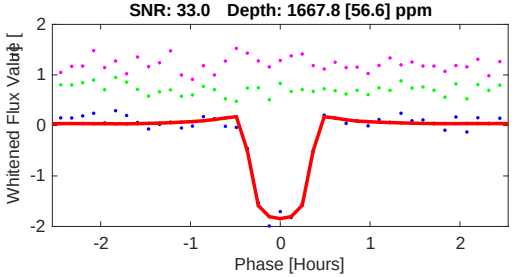


Sec Depth: 154.7 [42.9] ppm
Sec Phase: 2.946 Days Sec MES: 3.0

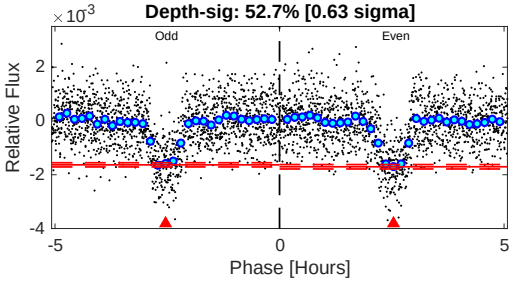




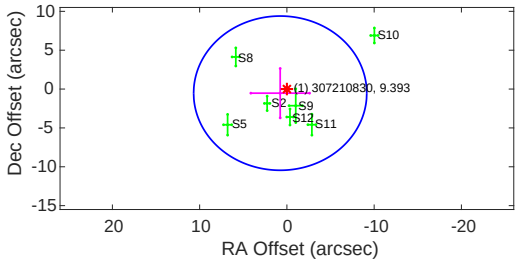
MES: 28.7 Transits: 21
SNR: 33.0 Depth: 1667.8 [56.6] ppm



Depth-sig: 52.7% [0.63 sigma]



Difference Image
TIC Position Centroid Offsets



DV Fit Results:

Period = 7.45080 [0.00002] d
Epoch = 1355.2874 [0.0005] BTJD
Rp/R* = 0.0430 [0.0021]
a/R* = 38.01 [8.93]
b = 0.88 [0.06]

Seff = 4.96 [0.60]
Teq = 381 [12] K
Rp = 1.47 [0.08] Re
a = 0.0506 [0.0025] AU
Rho = 13.292 [9.364]

Ag = 100.91 [31.17] [3.21 sigma]
Tp = 1865 [142] K [10.41 sigma]

DV Diagnostic Results:

ShortPeriod-sig: 100.0% [59.72 sigma]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 78.8%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.35e-193
GhostDiagnostic-chr: 5.836

OotOffset-rm: 0.678 arcsec [0.21 sigma]
TicOffset-rm: 0.933 arcsec [0.28 sigma]
OotOffset-tot: 7
TicOffset-tot: 7

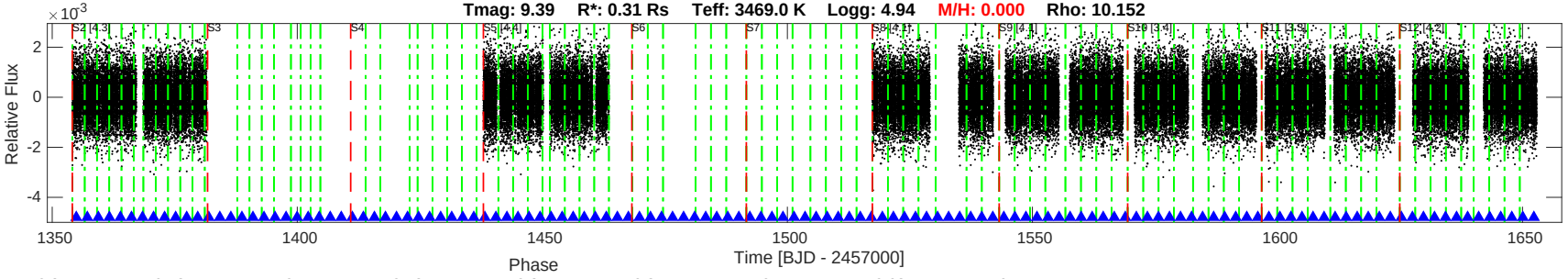
DiffImageQuality-fgm: 1.00 [7/7]
DiffImageOverlap-fno: 0.86 [6/7]

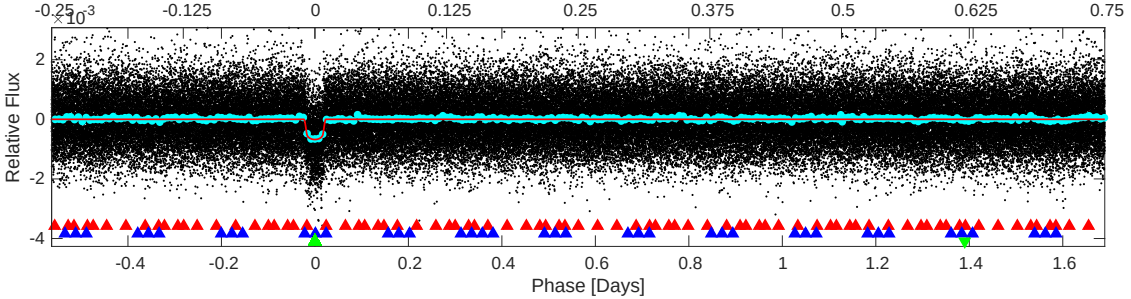
Software Revision: spoc-3.3.75-20190724 -- Date Generated: 07-Aug-2019 20:54:01 Z

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

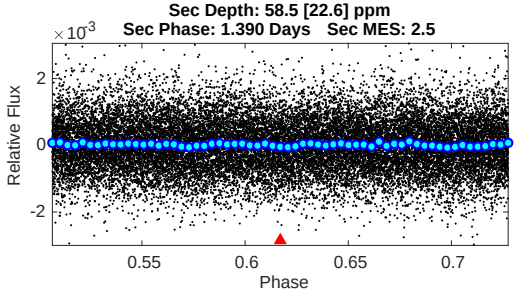
TIC: 307210830 Candidate: 3 of 3 Period: 2.253 d
TOI: 175.03 Corr: 0.973

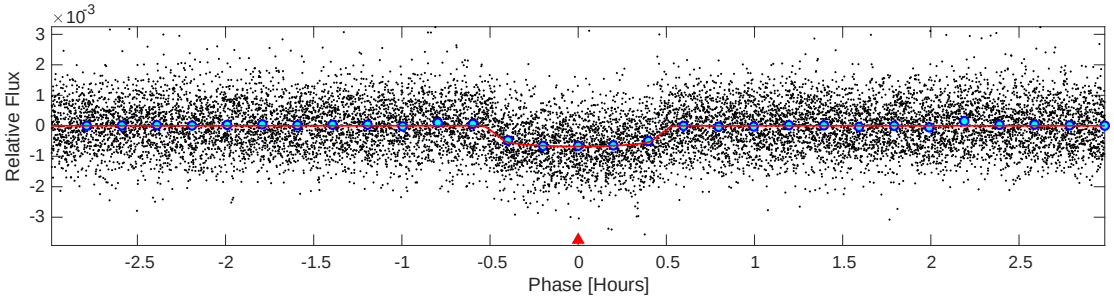
Tmag: 9.39 R*: 0.31 Rs Teff: 3469.0 K Logg: 4.94 M/H: 0.000 Rho: 10.152



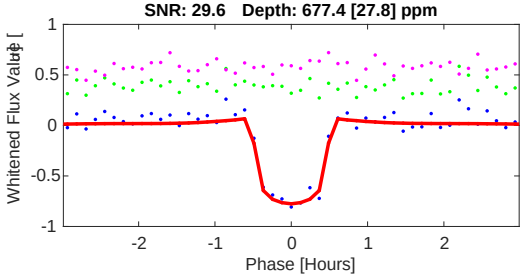


Sec Depth: 58.5 [22.6] ppm
Sec Phase: 1.390 Days Sec MES: 2.5

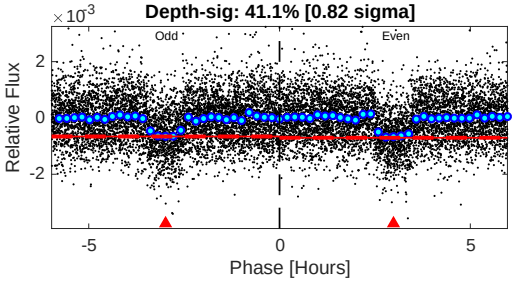




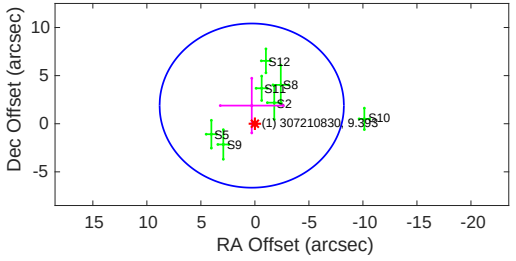
MES: 25.8 Transits: 71
SNR: 29.6 Depth: 677.4 [27.8] ppm



Depth-sig: 41.1% [0.82 sigma]



Difference Image
TIC Position Centroid Offsets



DV Fit Results:

Period = 2.25310 [0.00001] d
Epoch = 1354.9063 [0.0004] BTJD
Rp/R* = 0.0251 [0.0082]
a/R* = 14.03 [24.82]
b = 0.63 [1.72]

Seff = 24.44 [2.96]
Teq = 567 [17] K
Rp = 0.86 [0.28] Re
a = 0.0228 [0.0011] AU
Rho = 7.312 [38.802]

Ag = 22.75 [17.37] [1.25 sigma]
Tp = 1915 [365] K [3.69 sigma]

DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [21.57 sigma]
ModelChiSquare2-sig: 99.8%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.01e-158
GhostDiagnostic-chr: 3.516

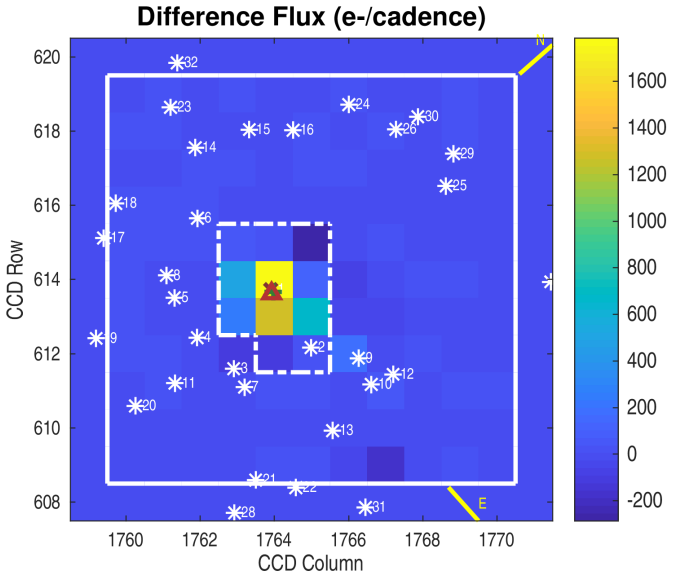
OotOffset-rm: 2.417 arcsec [0.84 sigma]
TicOffset-rm: 1.908 arcsec [0.67 sigma]
OotOffset-tot: 7
TicOffset-tot: 7

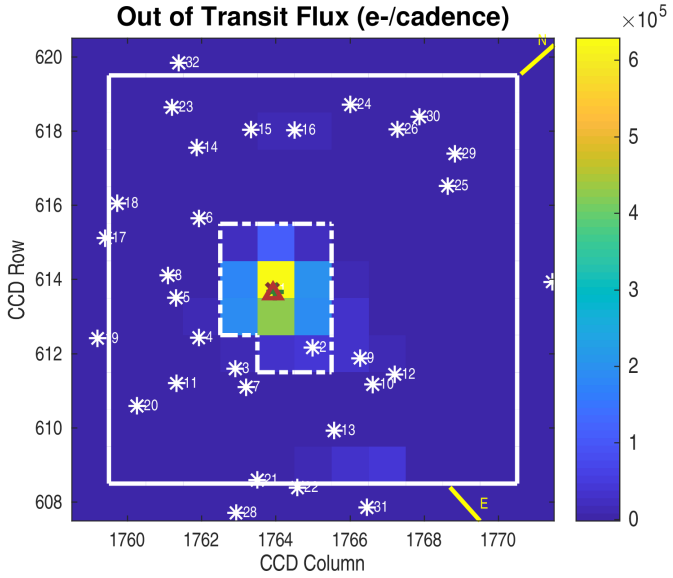
DiffImageQuality-fgm: 1.00 [7/7]
DiffImageOverlap-fno: 1.00 [7/7]

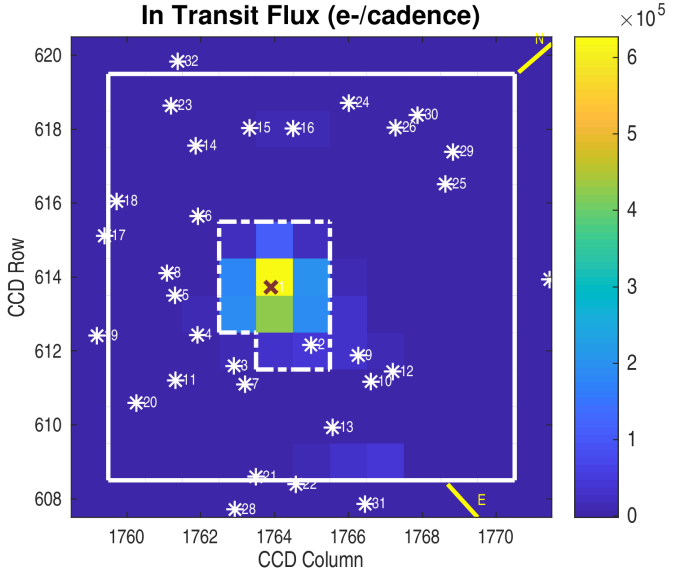
Software Revision: spoc-3.3.75-20190724 -- Date Generated: 07-Aug-2019 20:54:18 Z

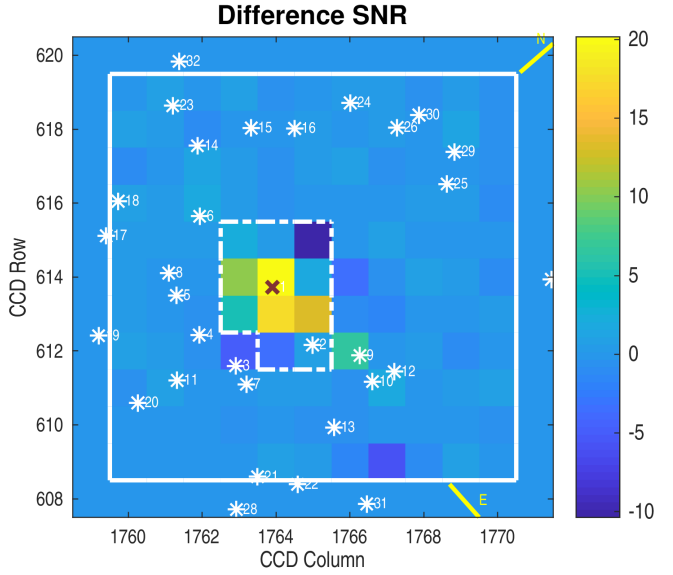
This Data Validation Report Summary was produced in the TESS Science Processing Operations Center Pipeline at NASA Ames Research Center

Planet Candidate 1 / Sector 12 / Target Pixel Table 161

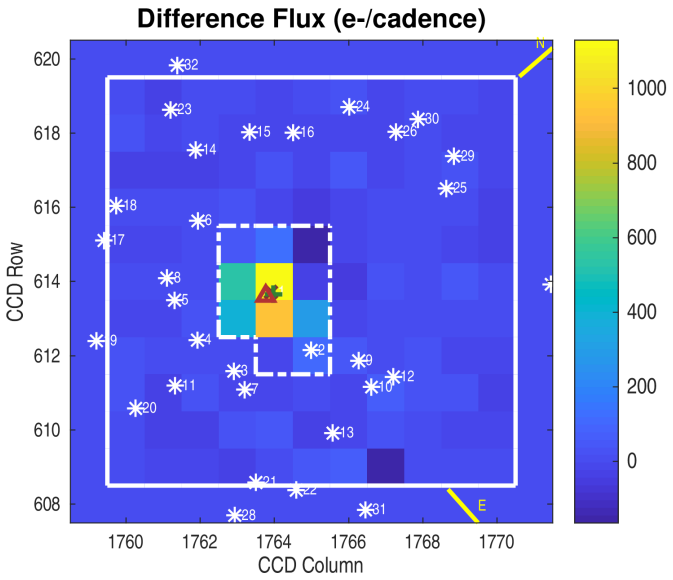


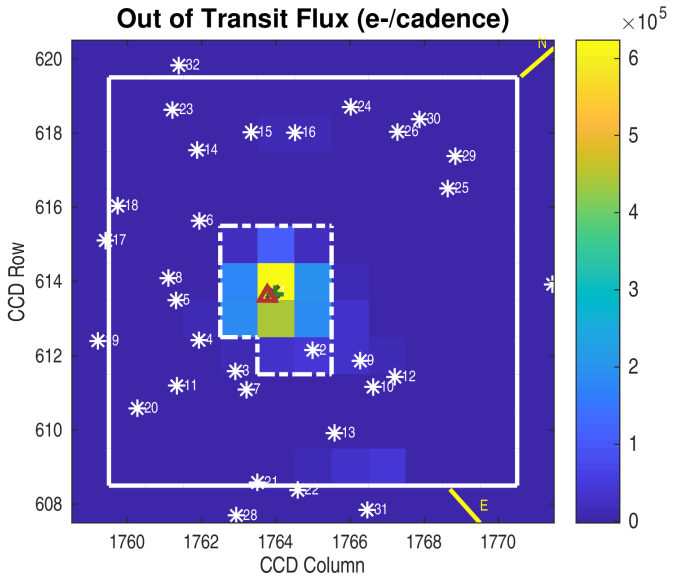


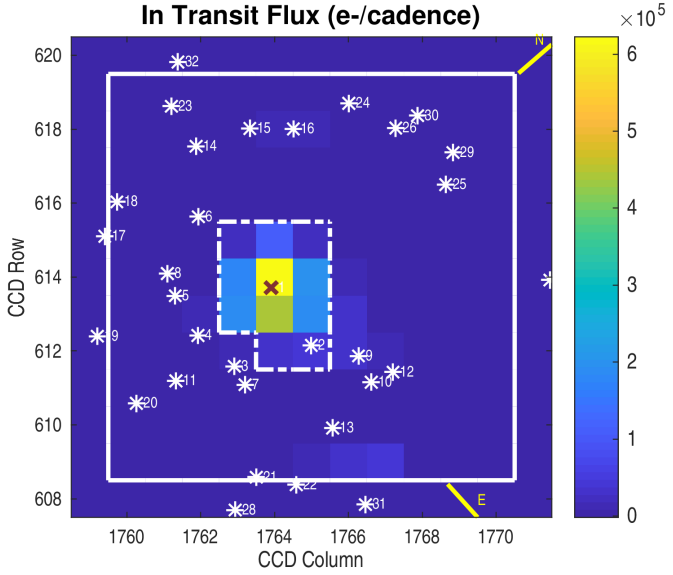


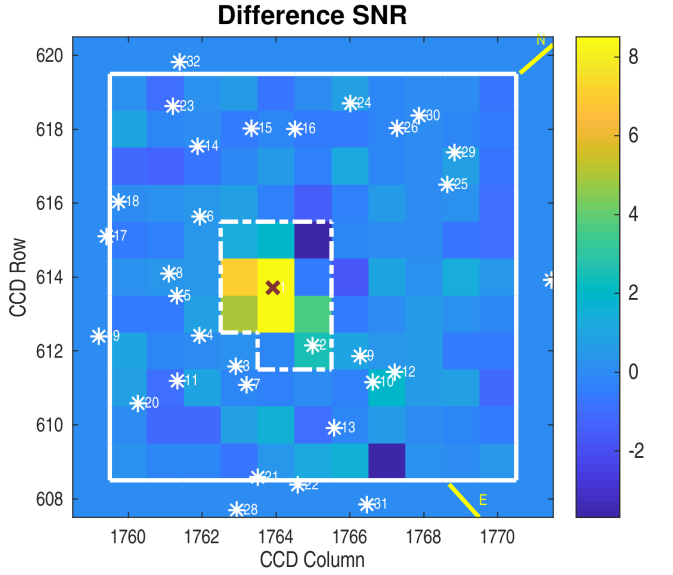


Planet Candidate 2 / Sector 12 / Target Pixel Table 161

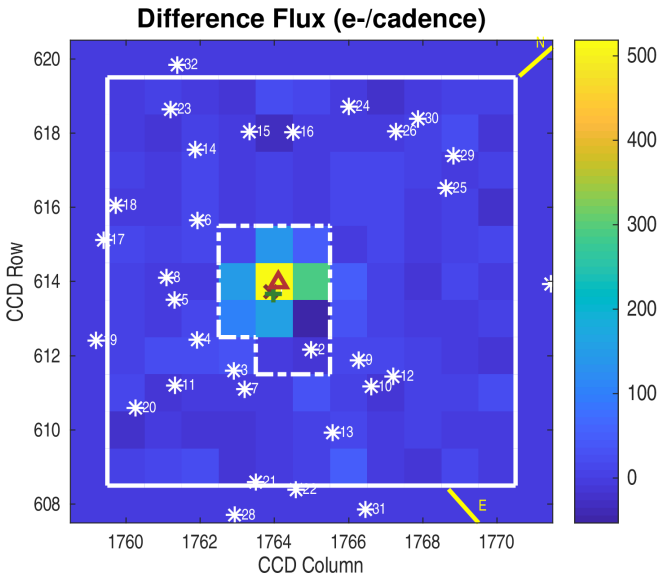


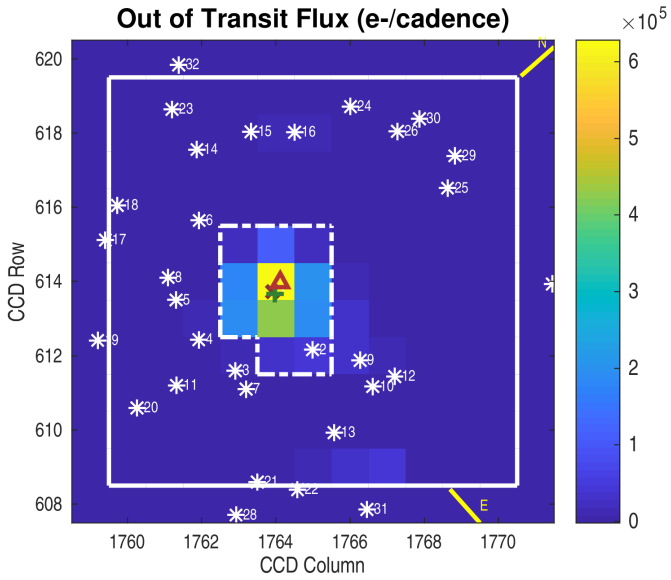


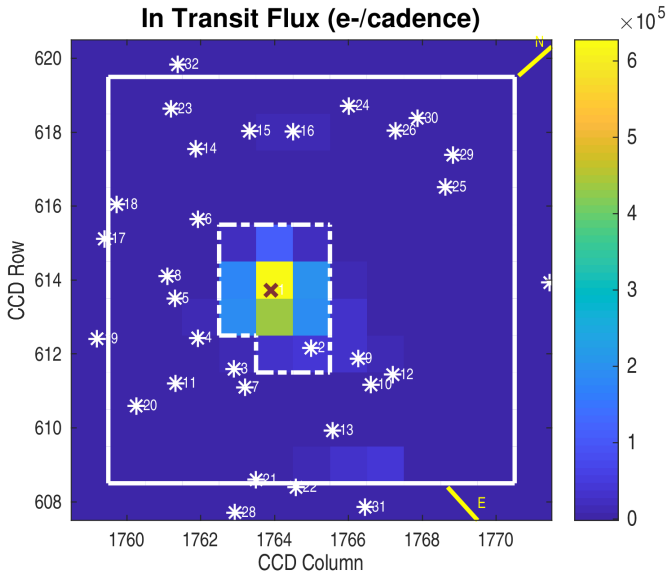


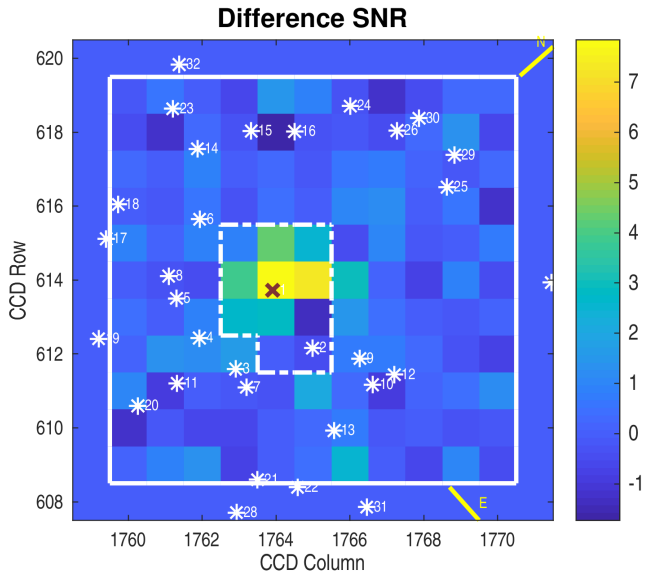


Planet Candidate 3 / Sector 12 / Target Pixel Table 161

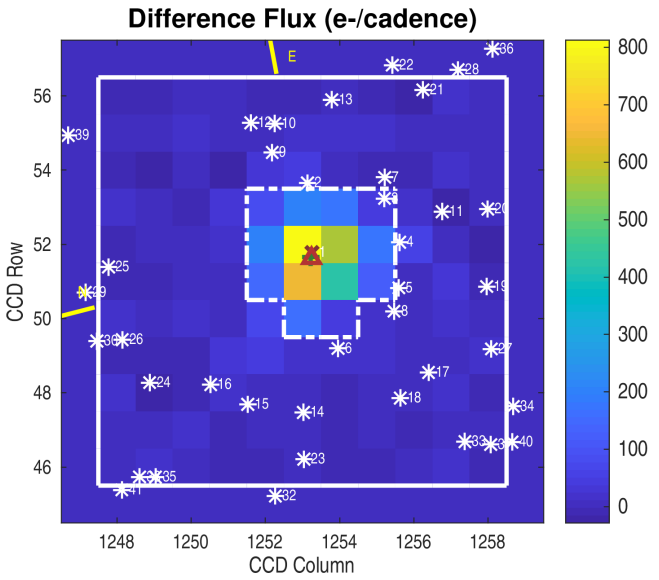


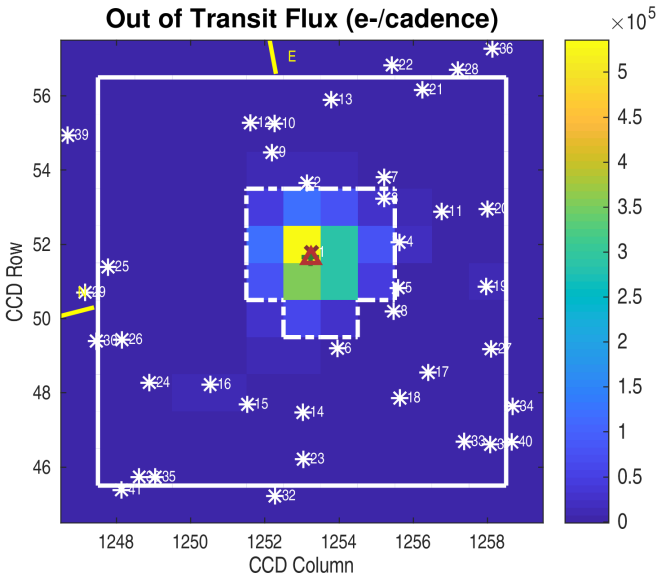


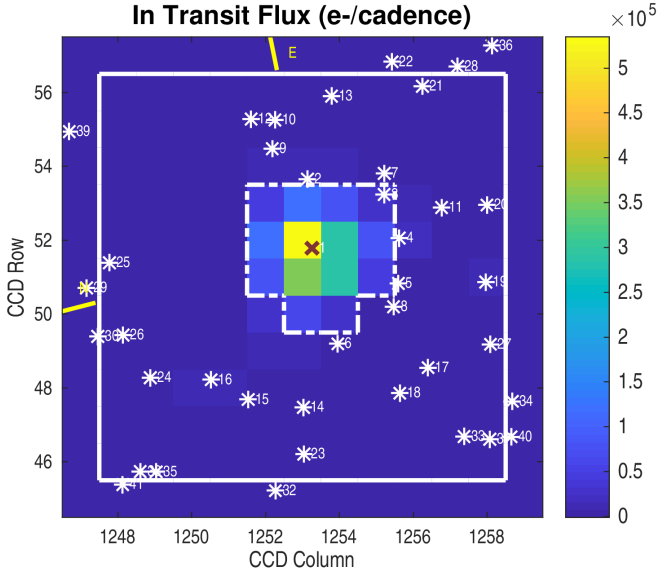


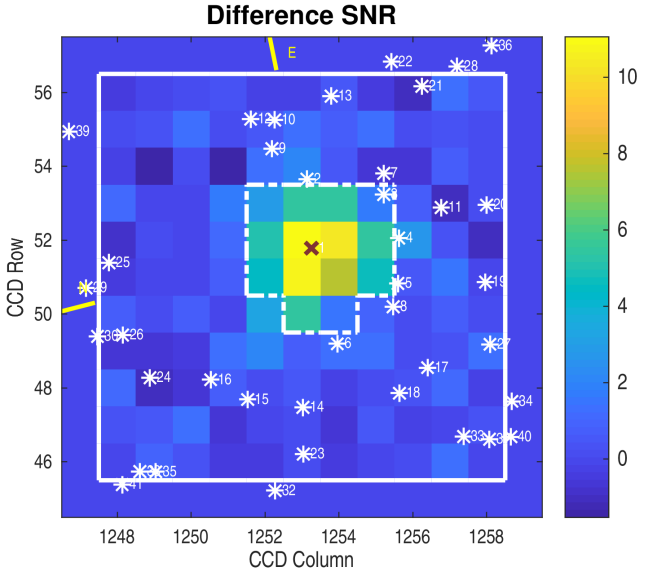


Planet Candidate 1 / Sector 11 / Target Pixel Table 155

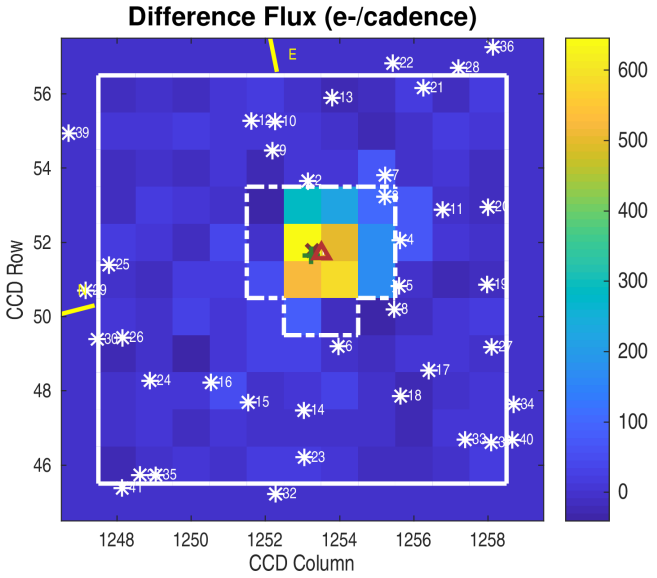


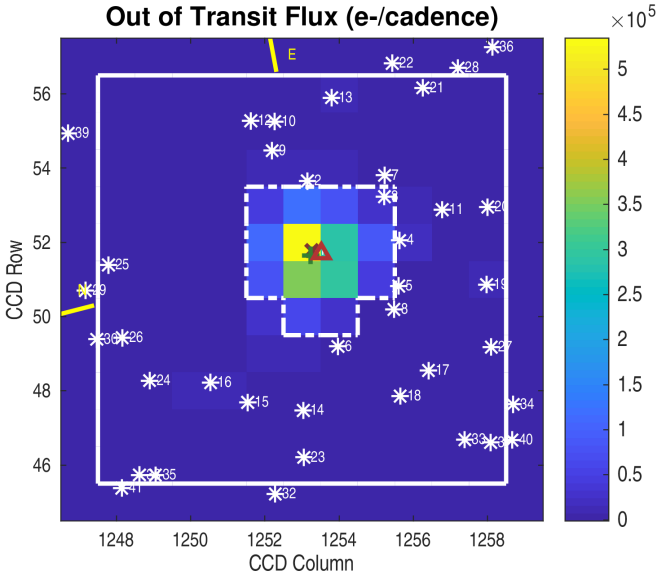


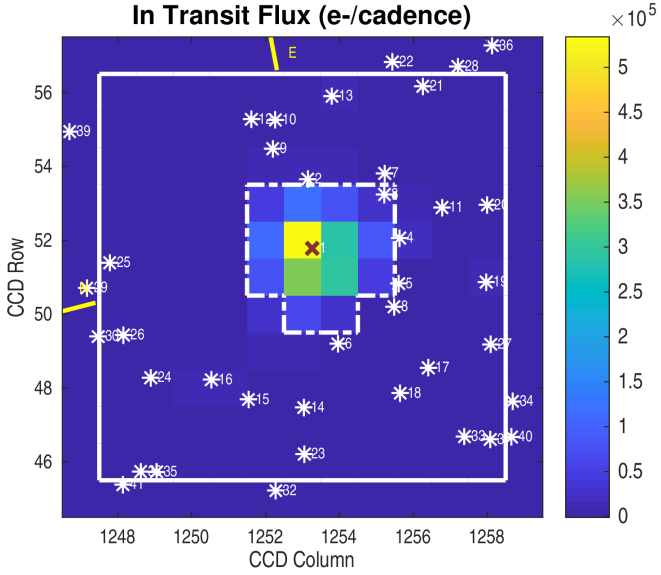


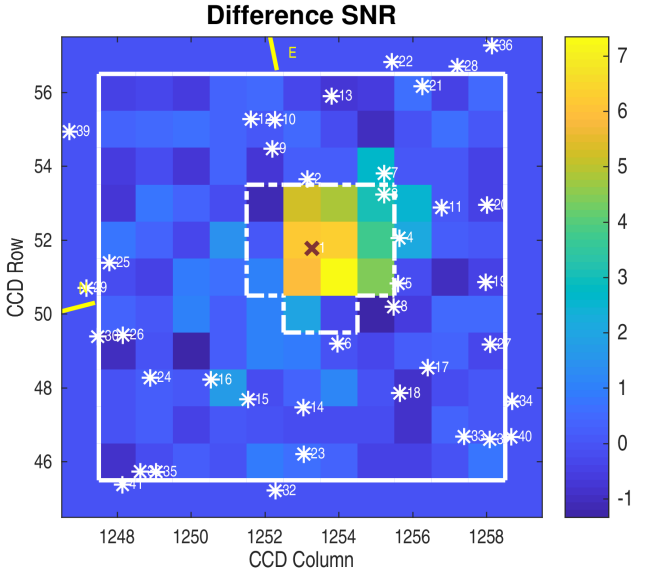


Planet Candidate 2 / Sector 11 / Target Pixel Table 155

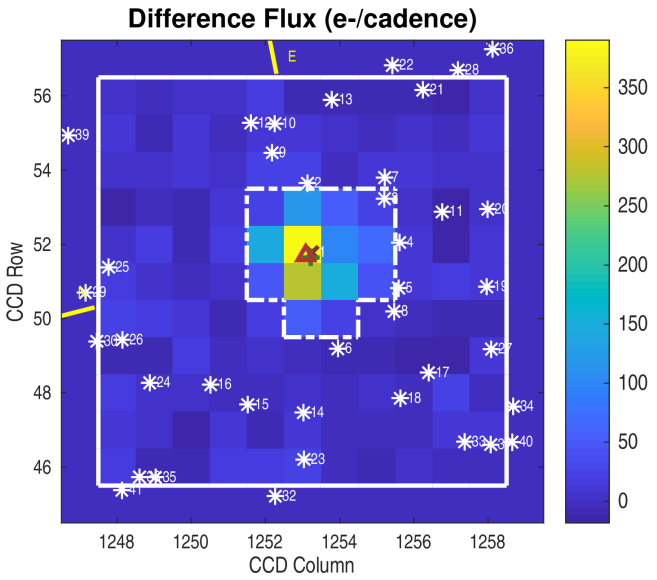


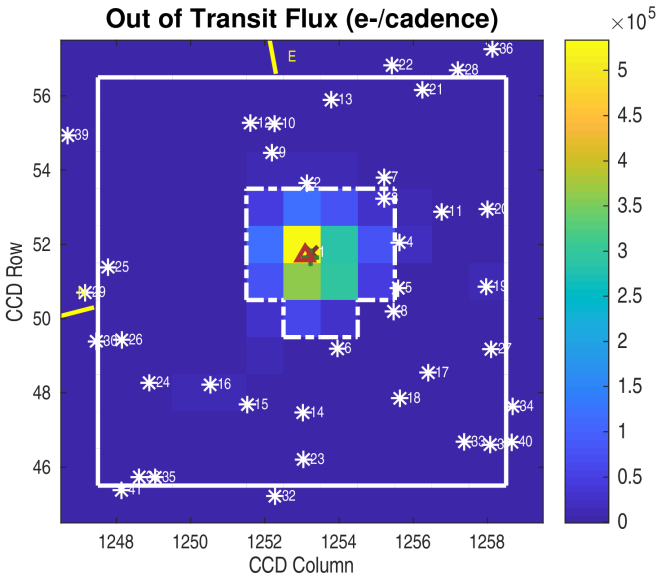


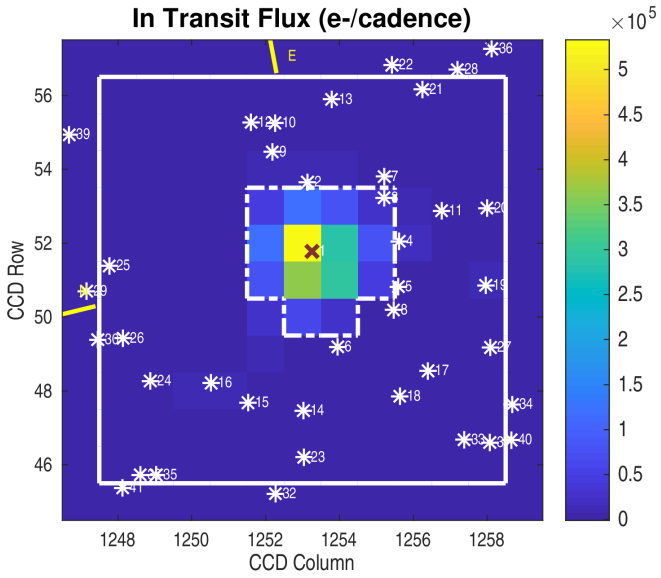


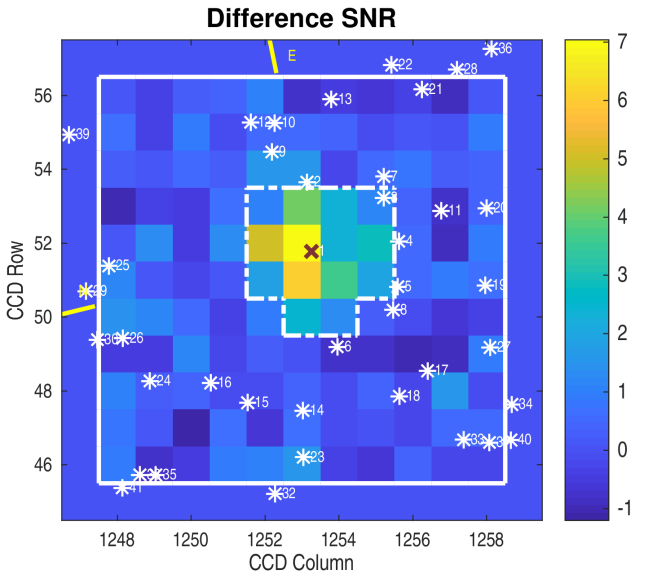


Planet Candidate 3 / Sector 11 / Target Pixel Table 155

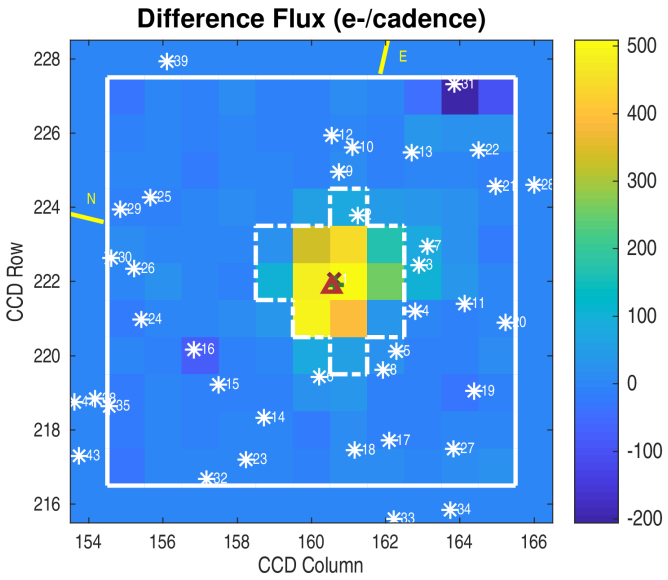


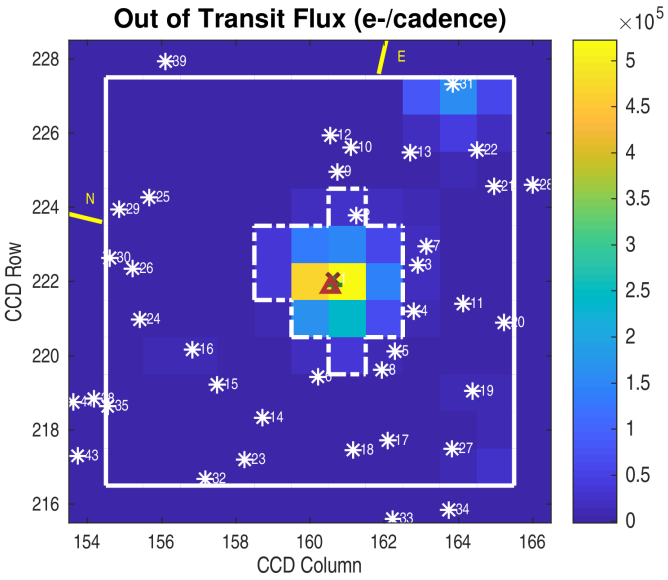


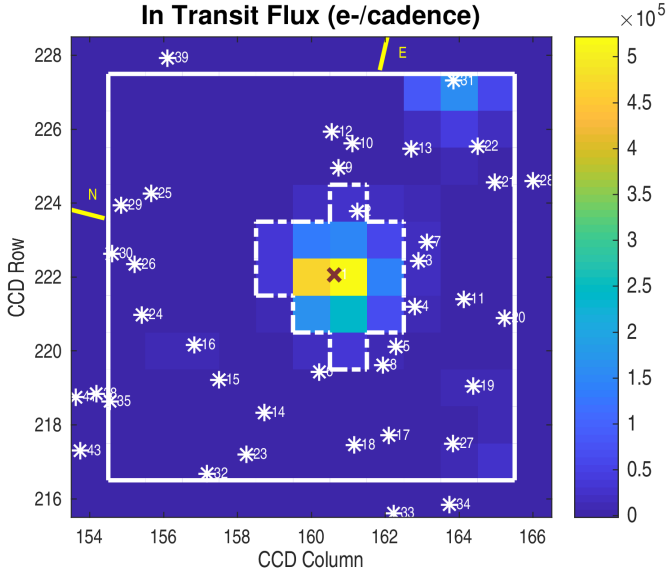


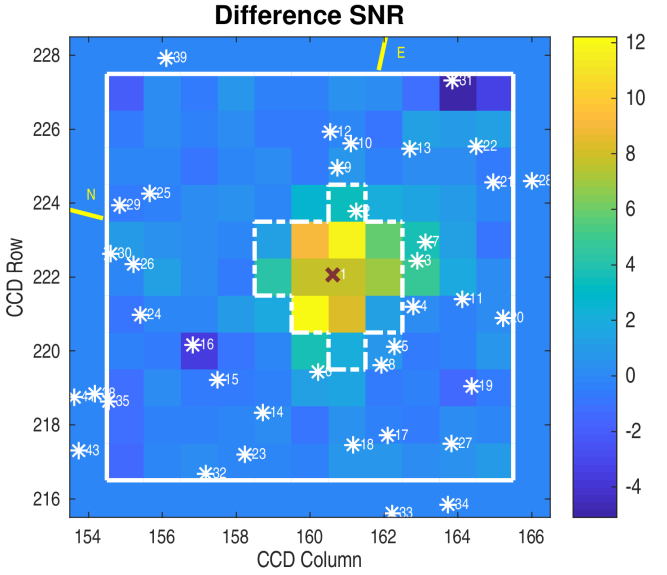


Planet Candidate 1 / Sector 10 / Target Pixel Table 154

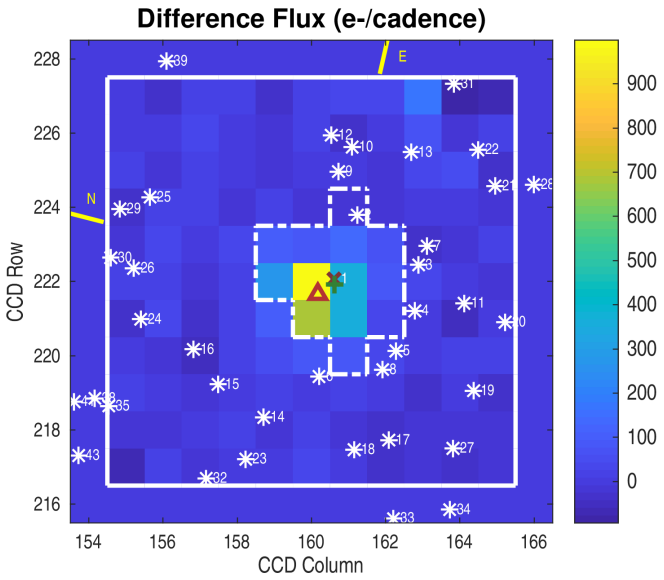


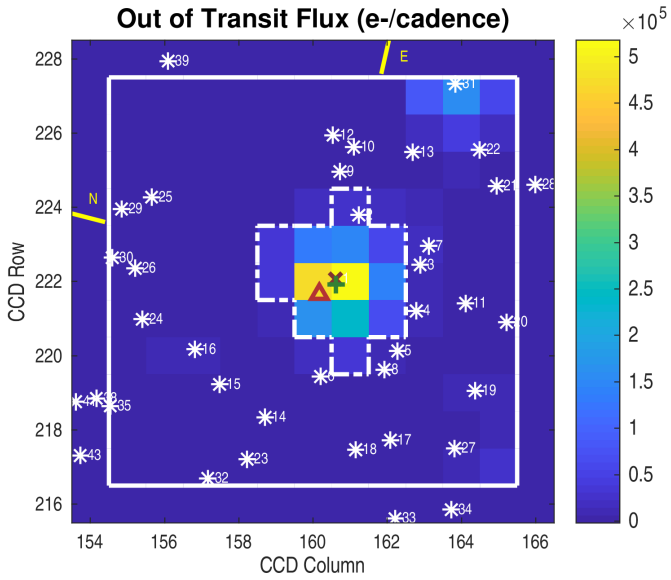


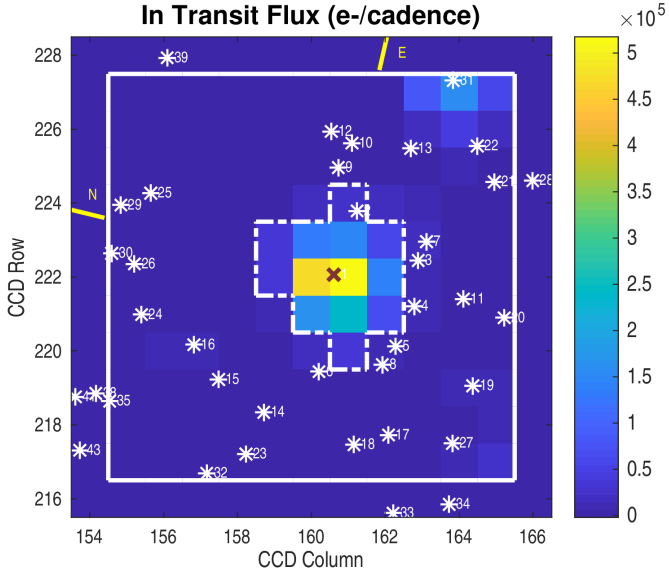


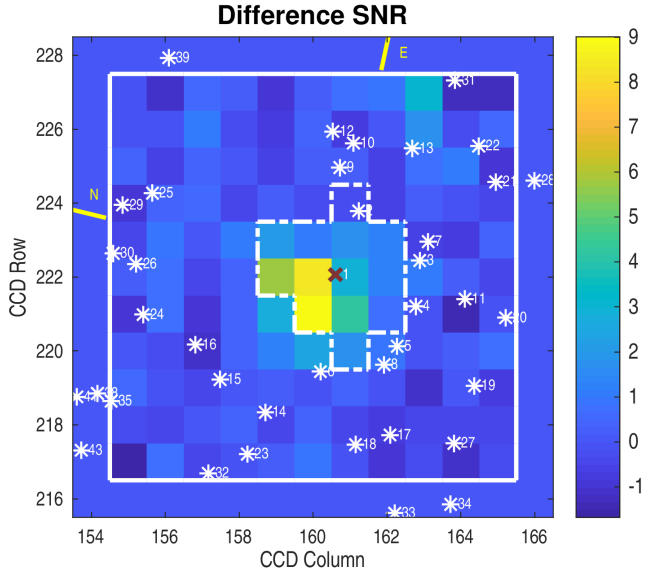


Planet Candidate 2 / Sector 10 / Target Pixel Table 154

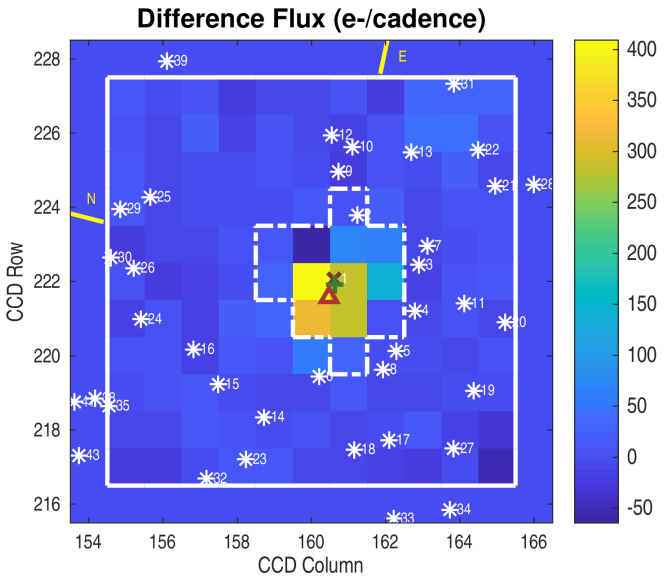


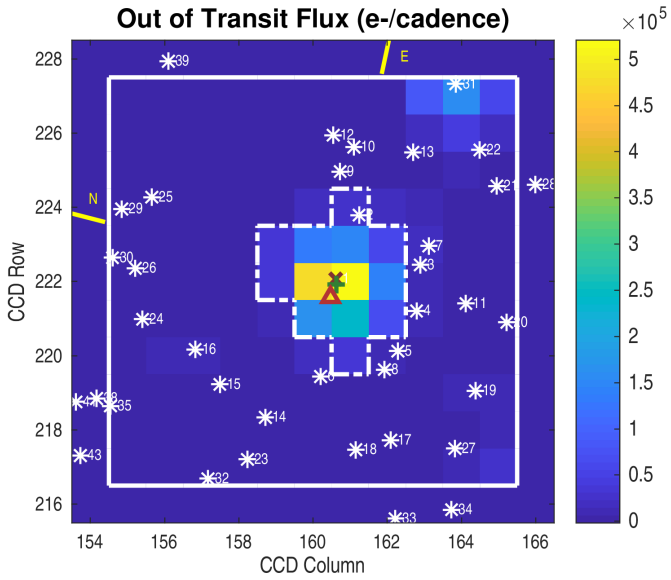


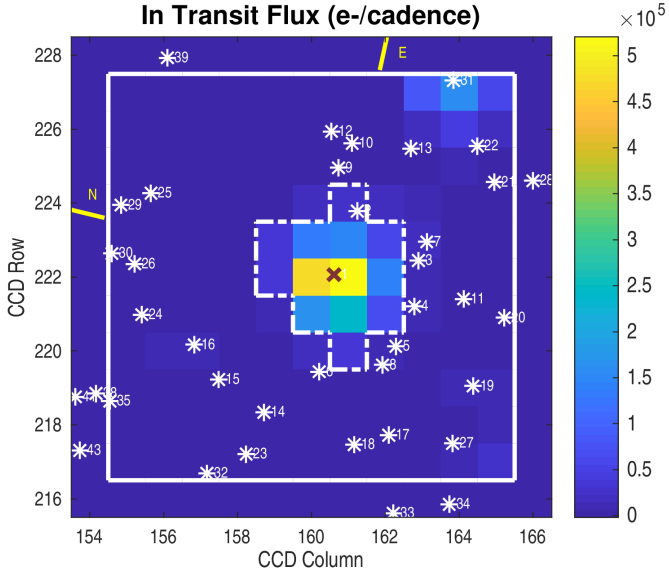


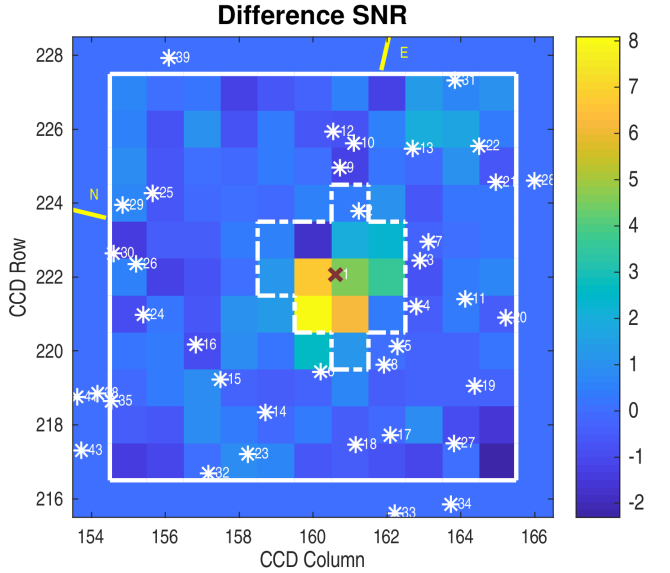


Planet Candidate 3 / Sector 10 / Target Pixel Table 154

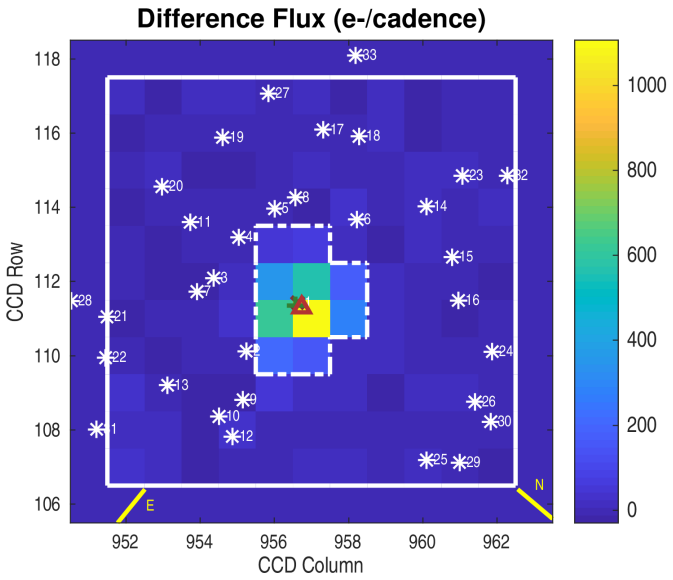


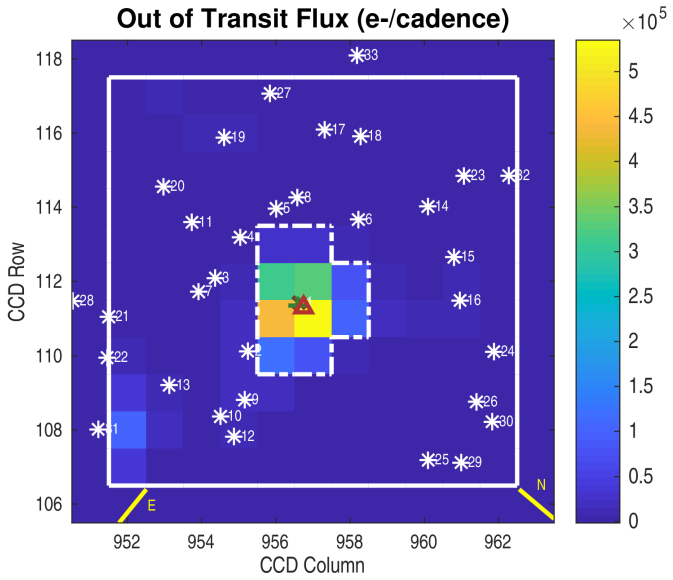


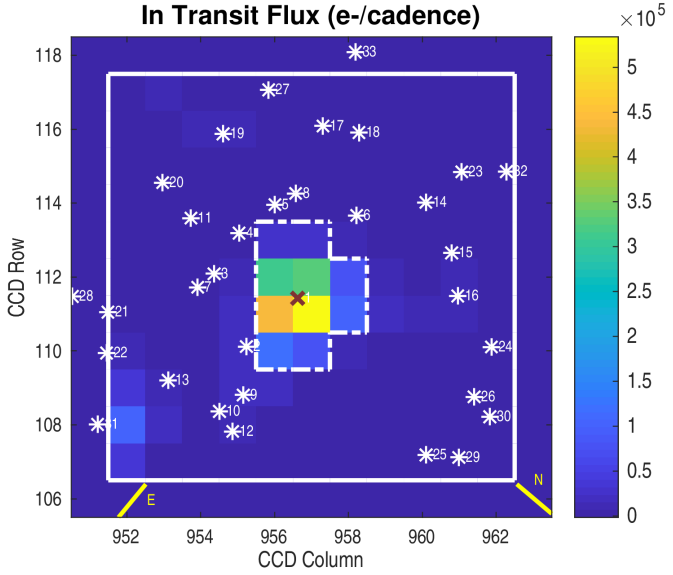


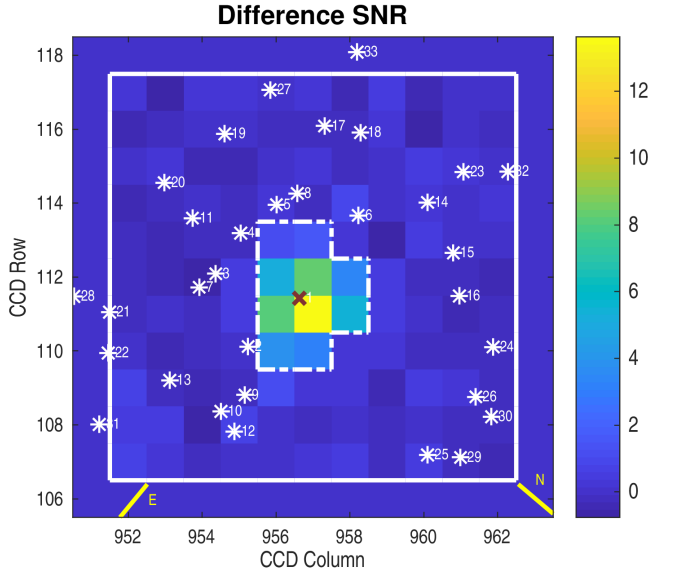


Planet Candidate 1 / Sector 9 / Target Pixel Table 152

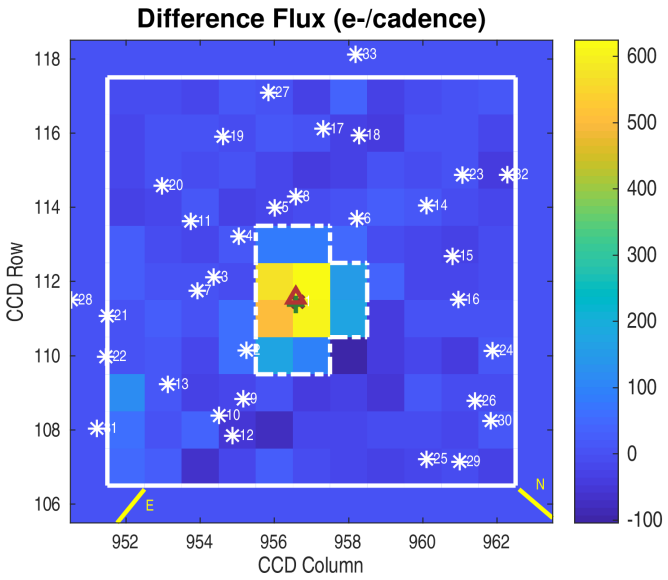


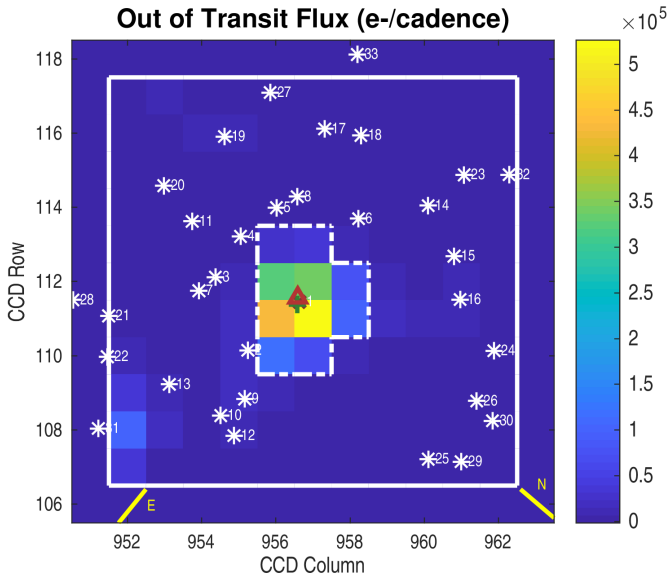


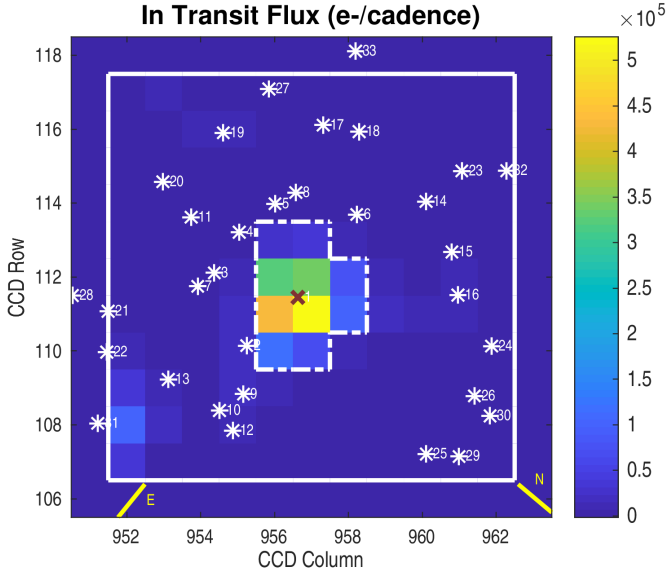


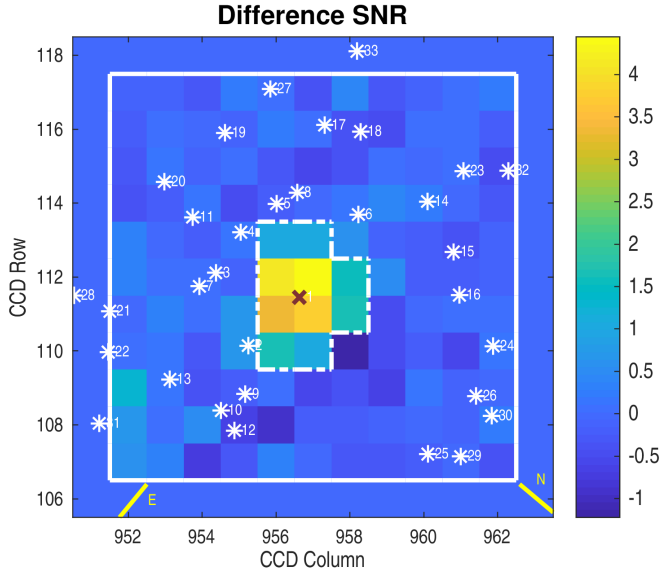


Planet Candidate 2 / Sector 9 / Target Pixel Table 152

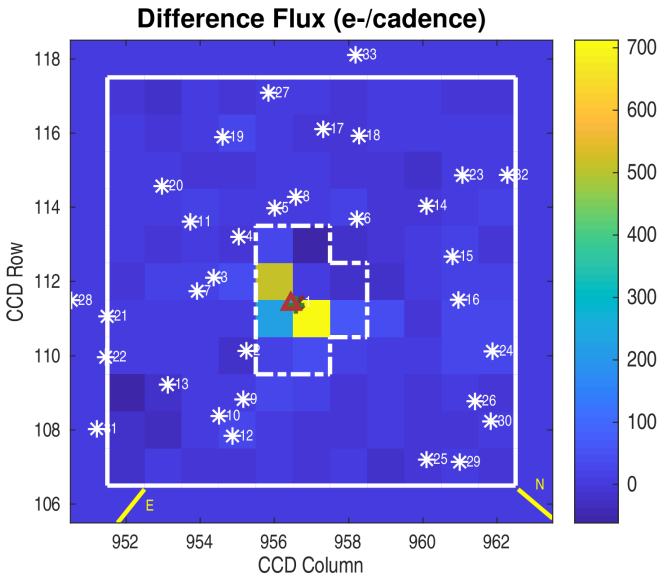


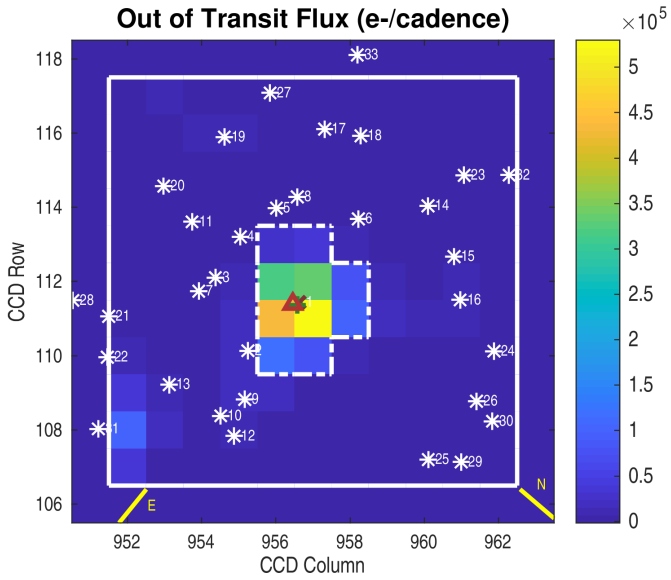


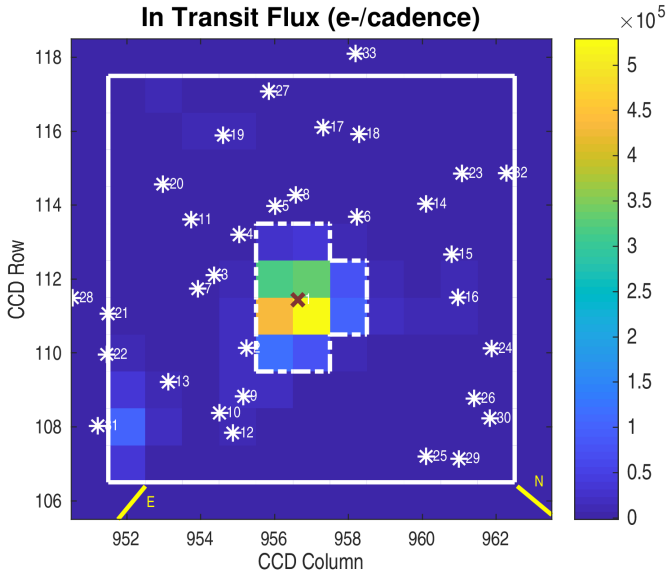


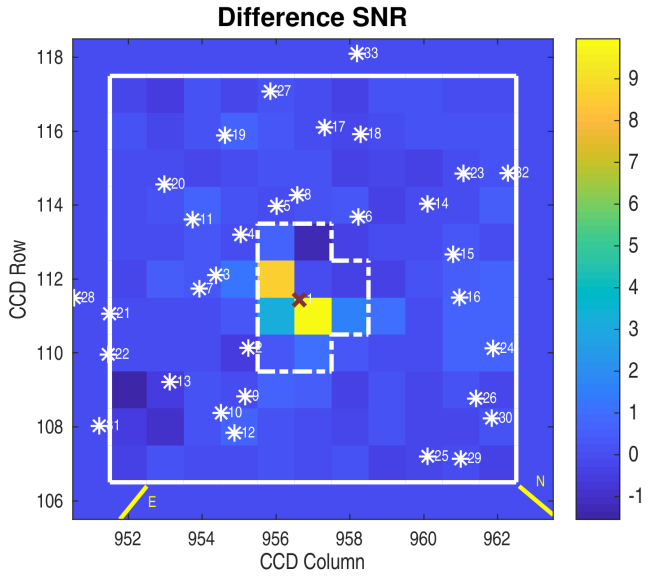


Planet Candidate 3 / Sector 9 / Target Pixel Table 152

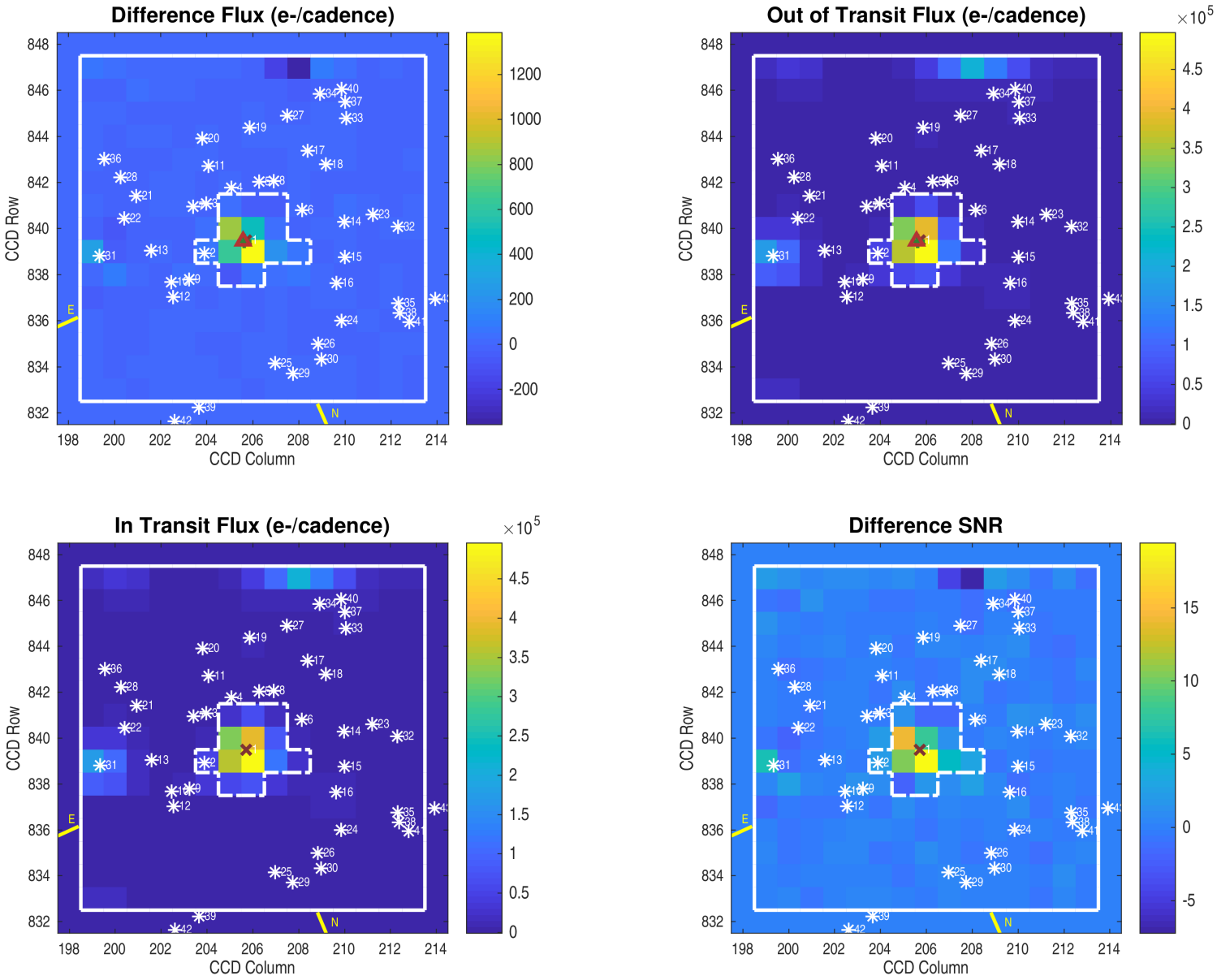




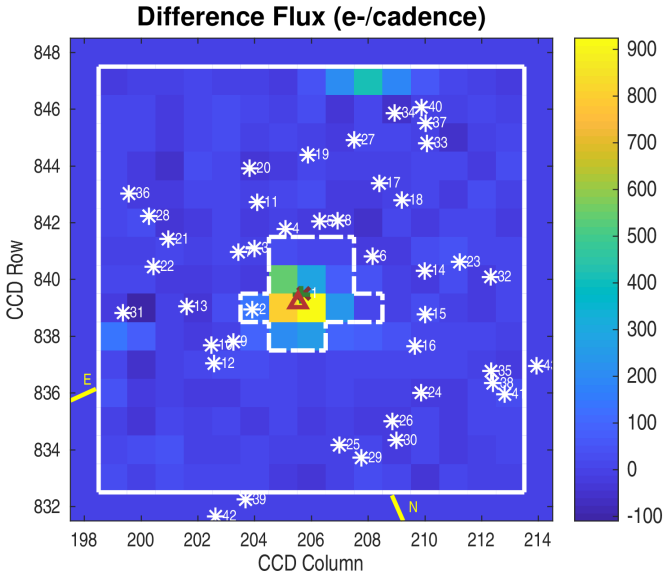


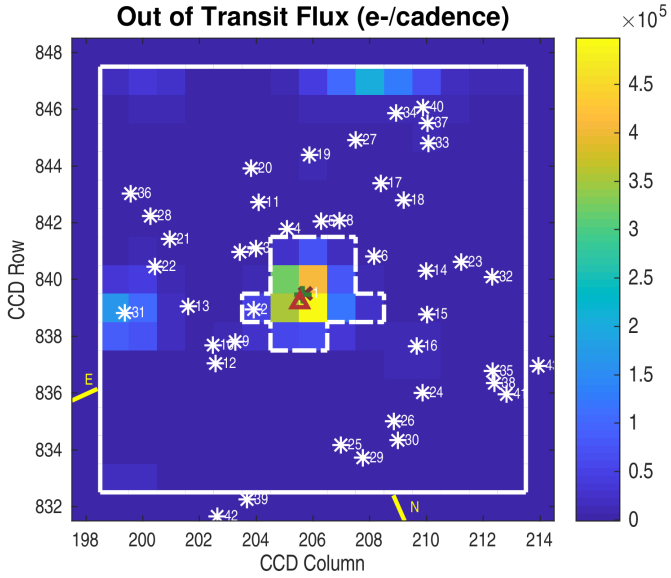


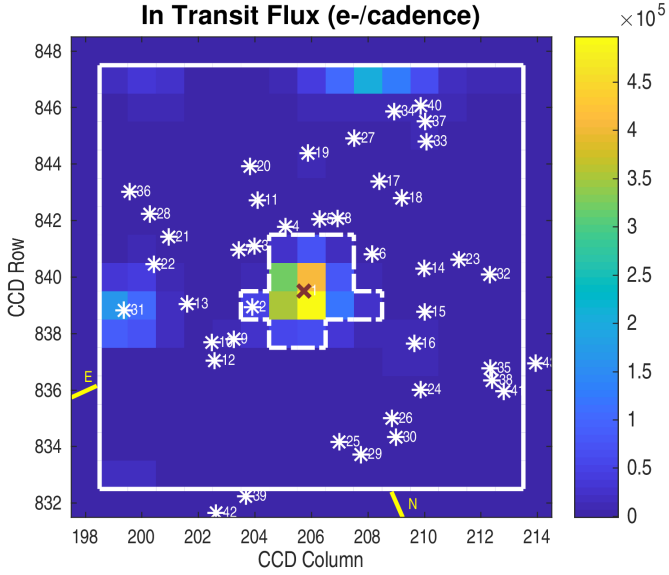
Planet Candidate 1 / Sector 8 / Target Pixel Table 148

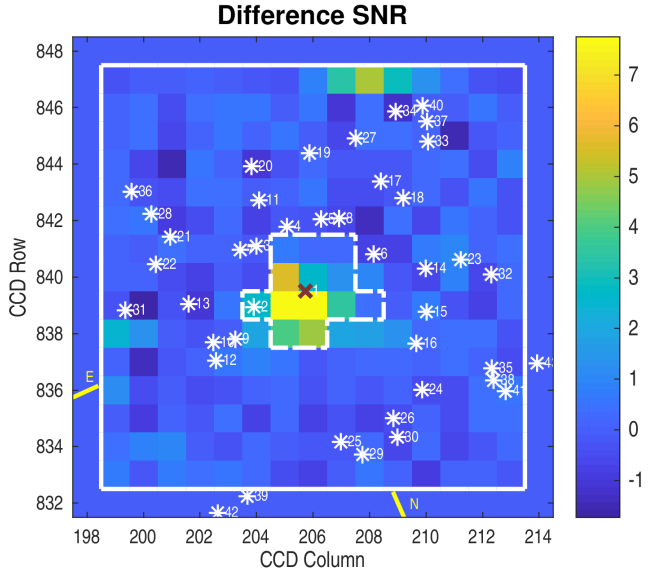


Planet Candidate 2 / Sector 8 / Target Pixel Table 148

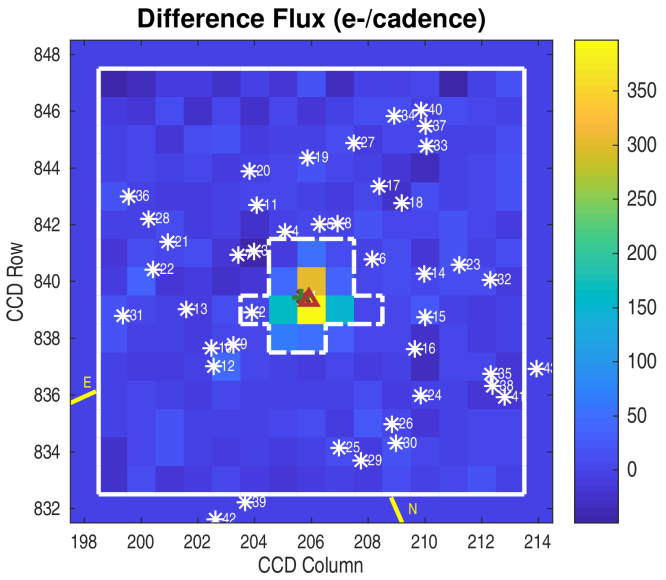


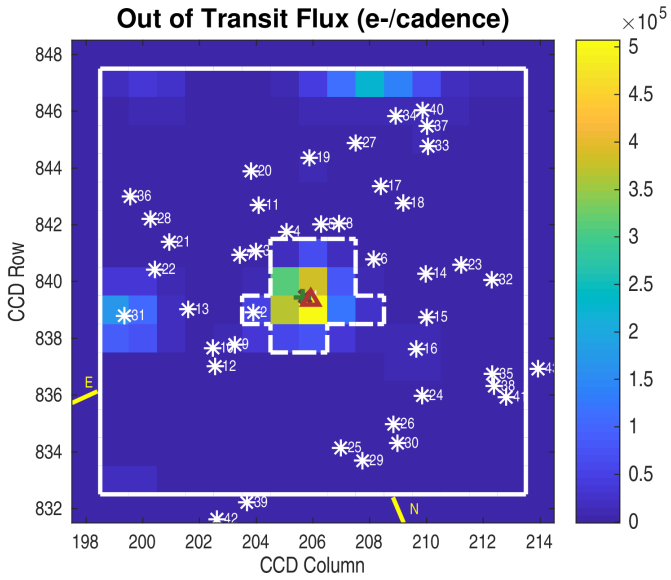


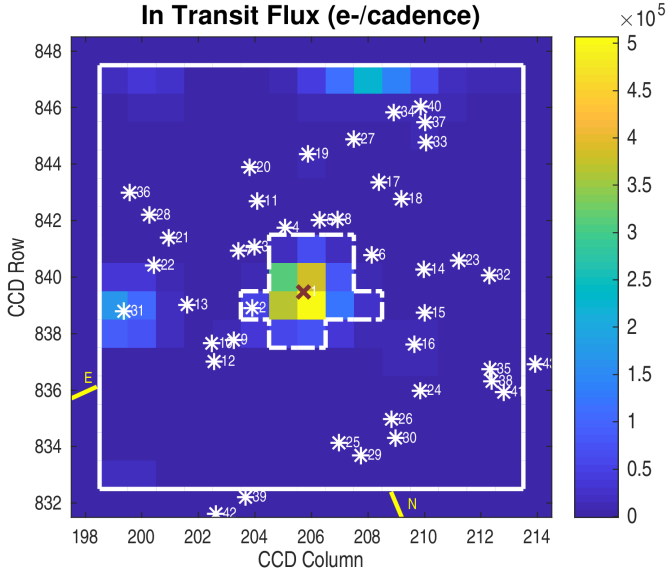


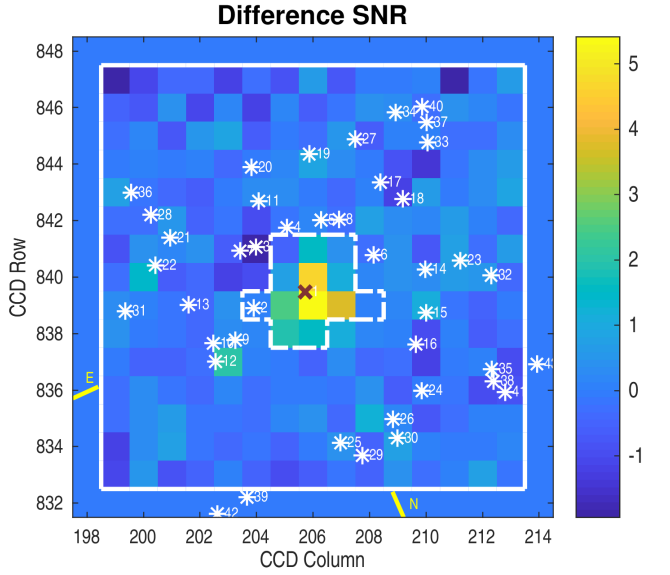


Planet Candidate 3 / Sector 8 / Target Pixel Table 148

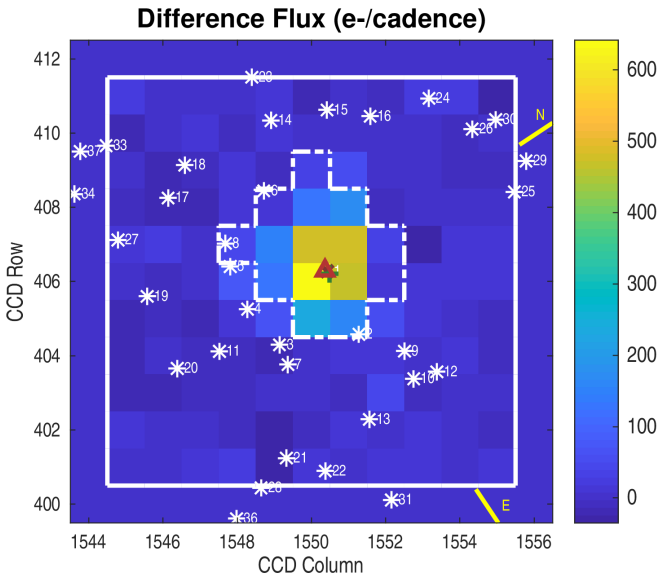


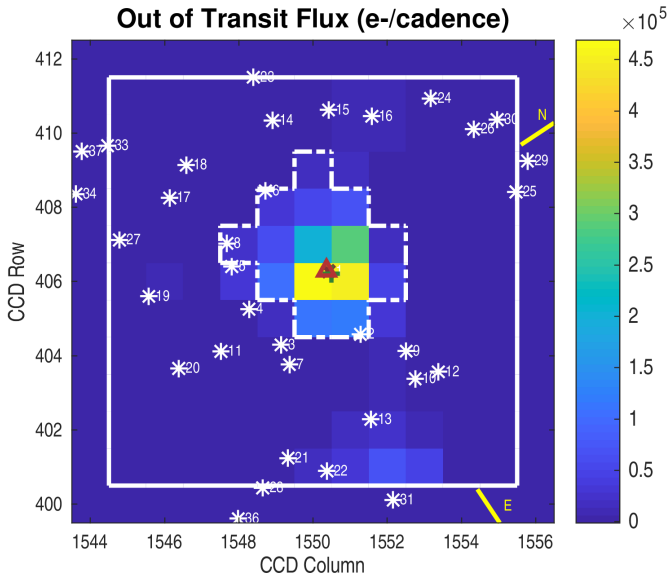


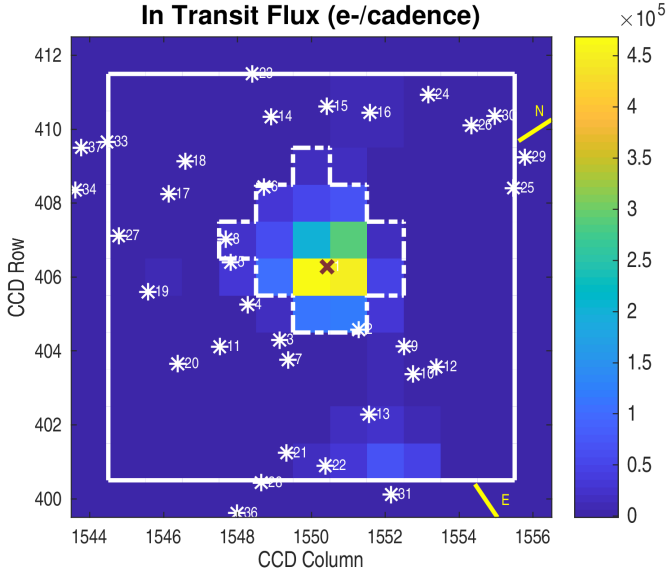


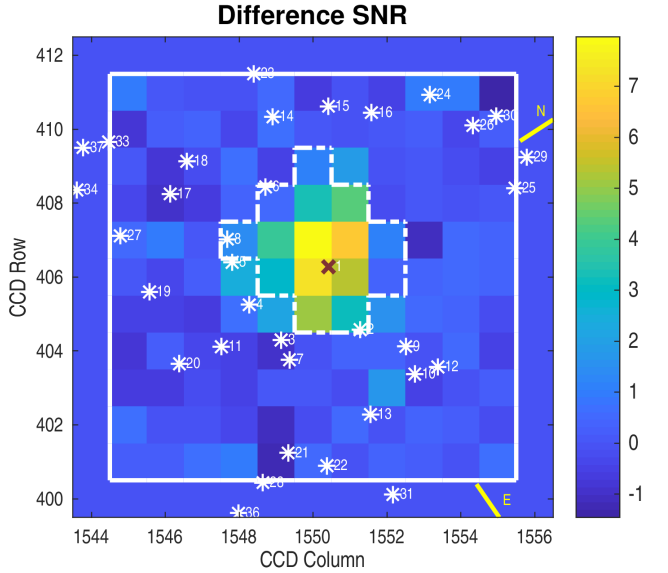


Planet Candidate 1 / Sector 5 / Target Pixel Table 136

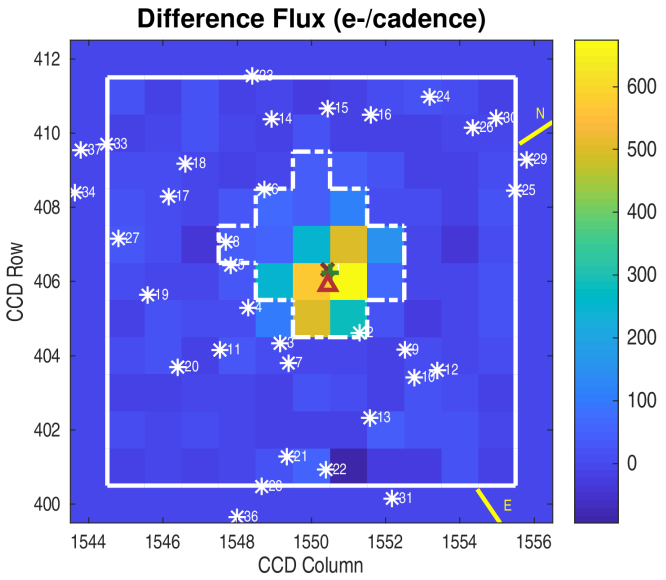


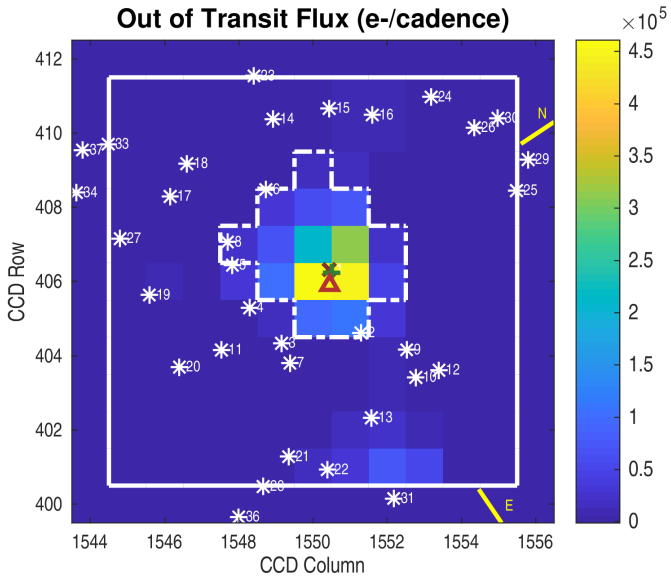


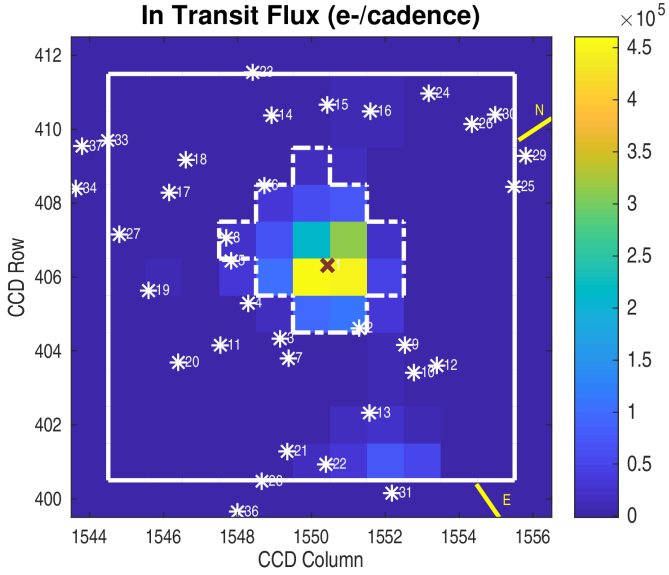


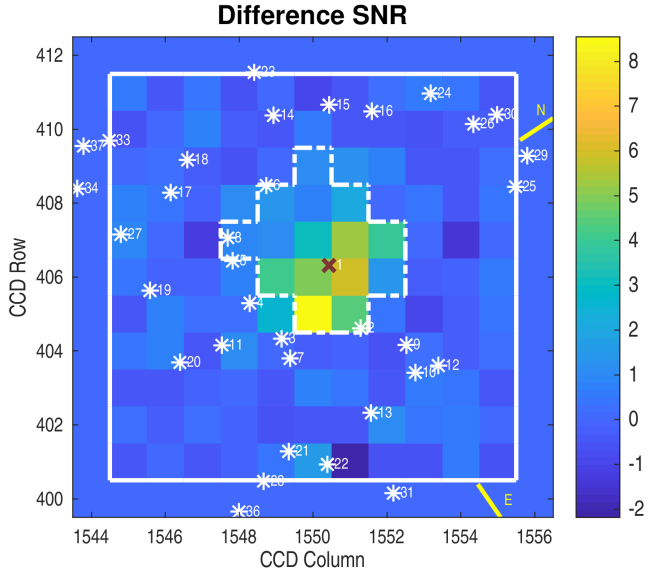


Planet Candidate 2 / Sector 5 / Target Pixel Table 136

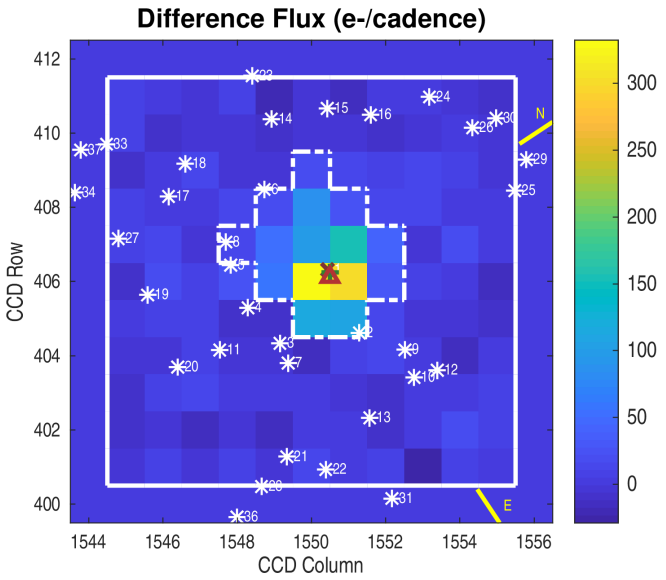


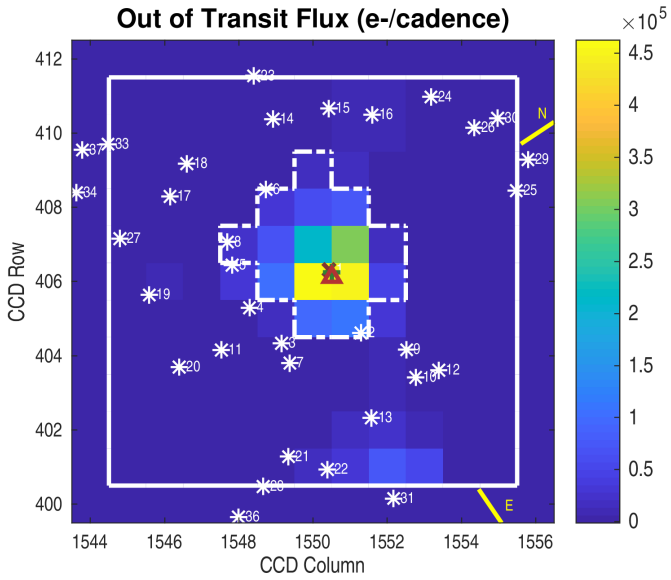


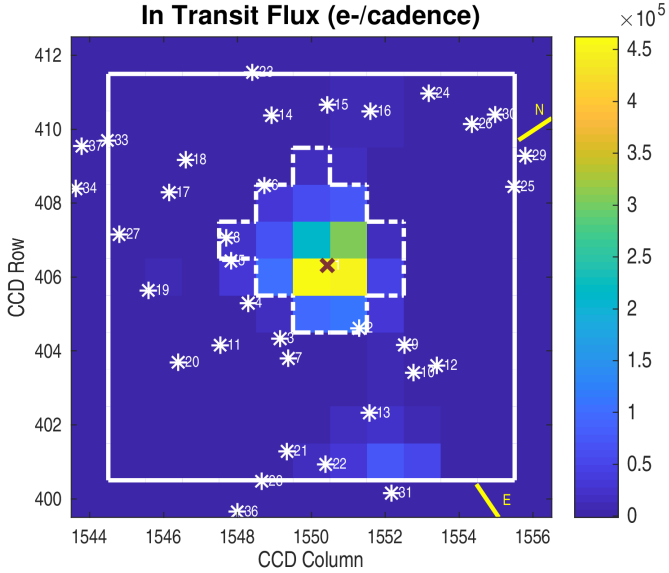


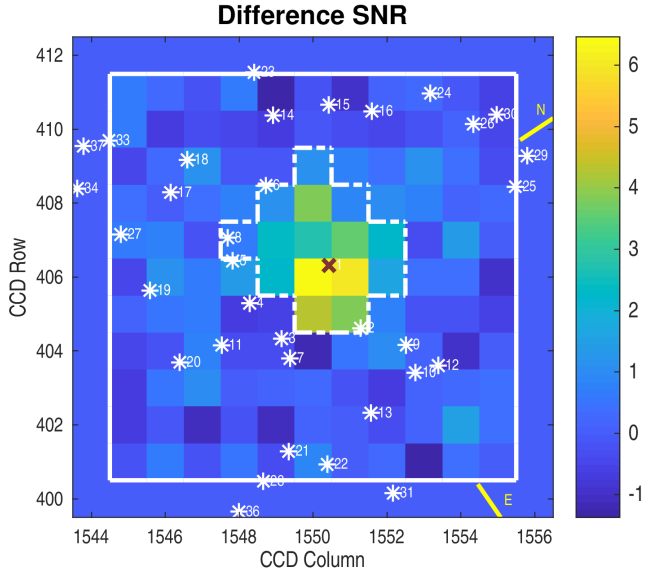


Planet Candidate 3 / Sector 5 / Target Pixel Table 136

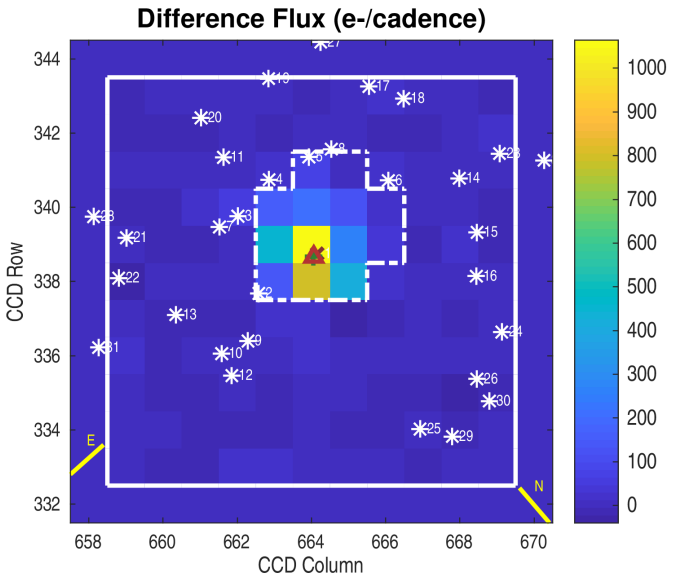


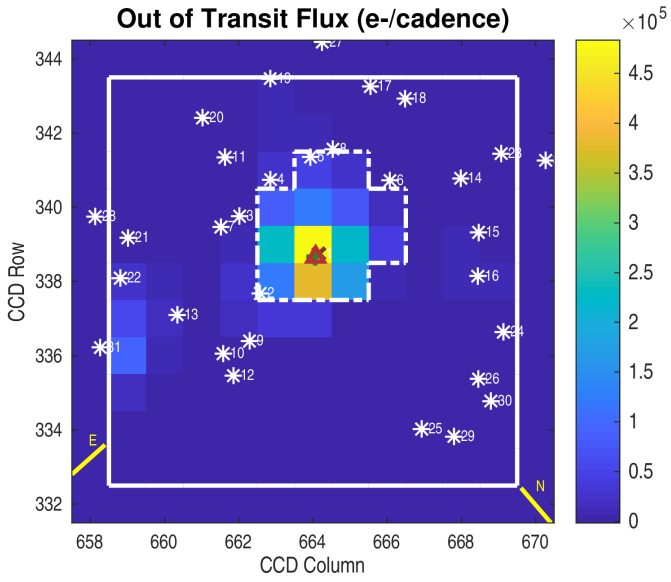


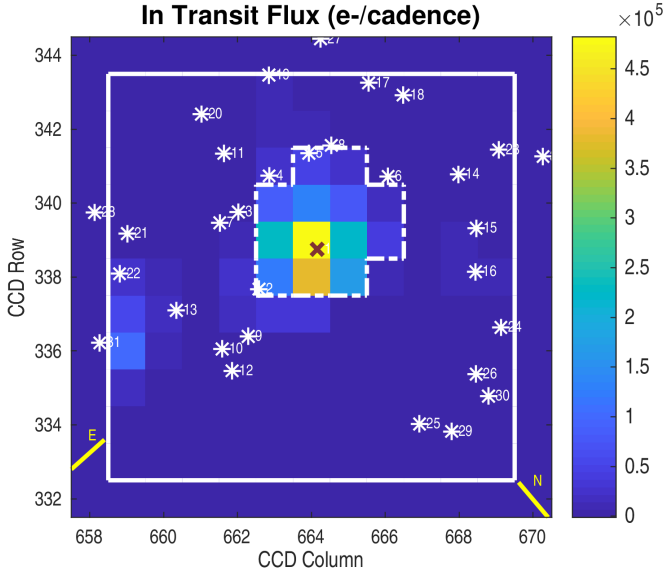


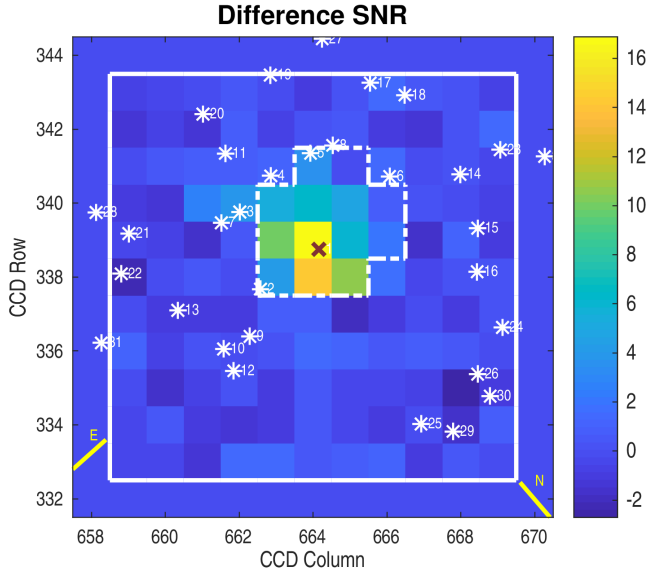


Planet Candidate 1 / Sector 2 / Target Pixel Table 129

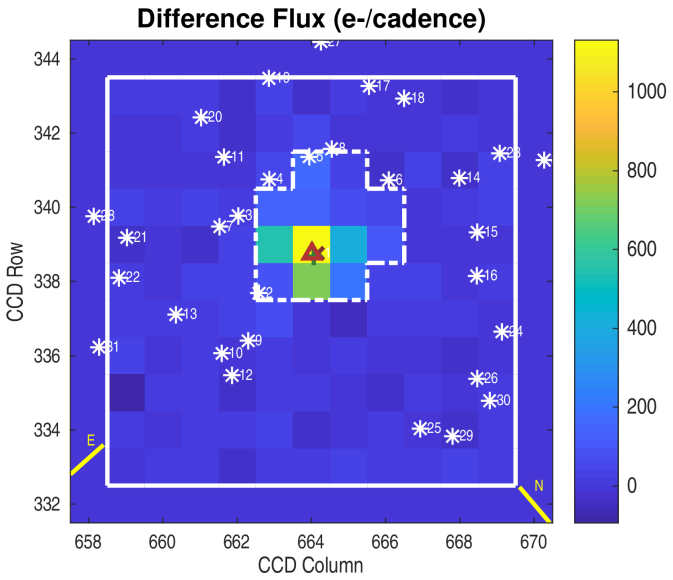


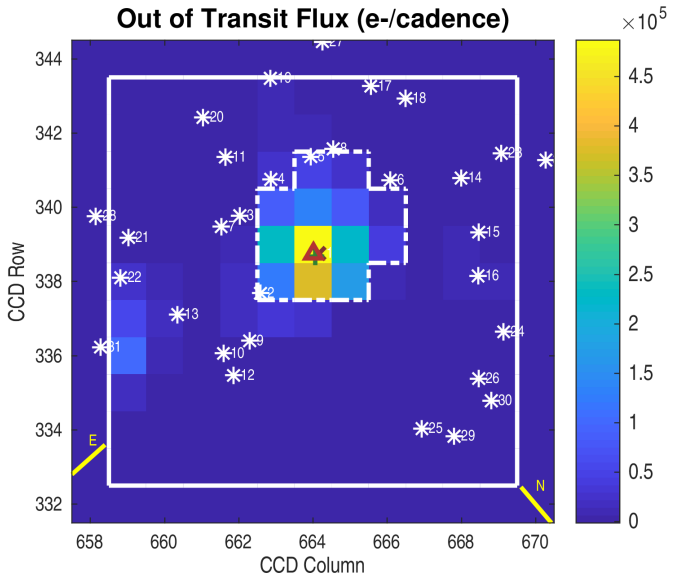


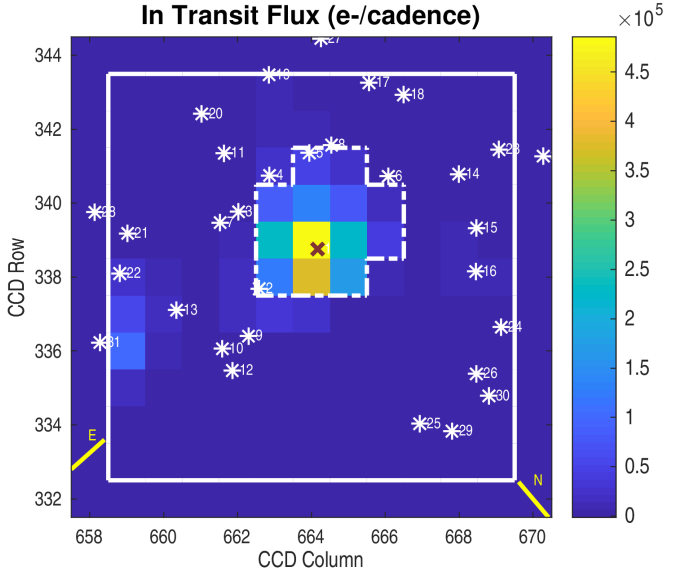


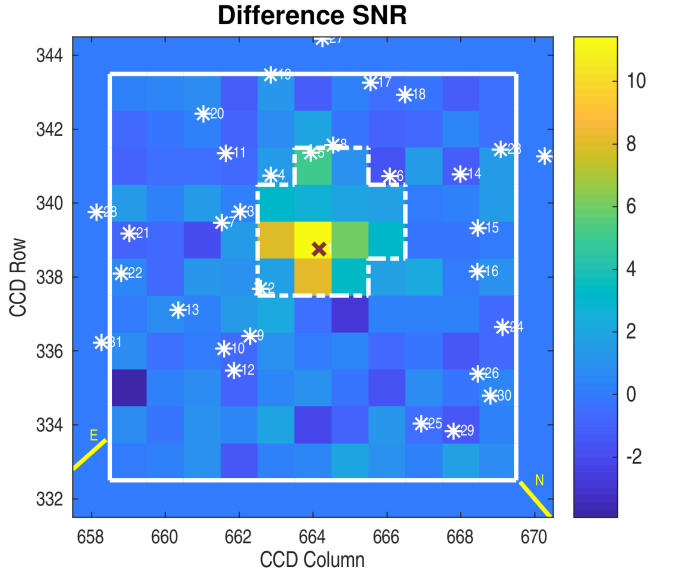


Planet Candidate 2 / Sector 2 / Target Pixel Table 129

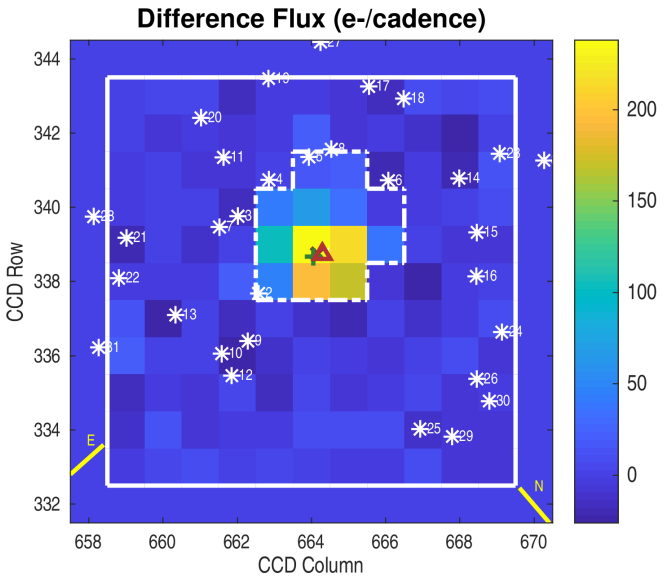


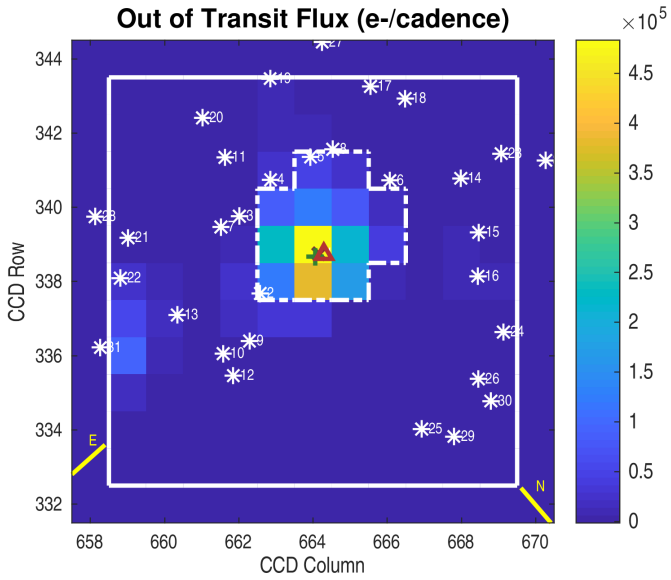


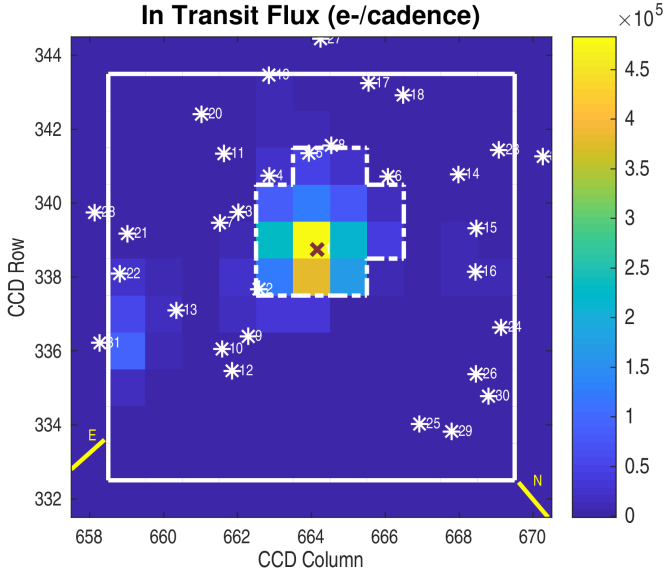


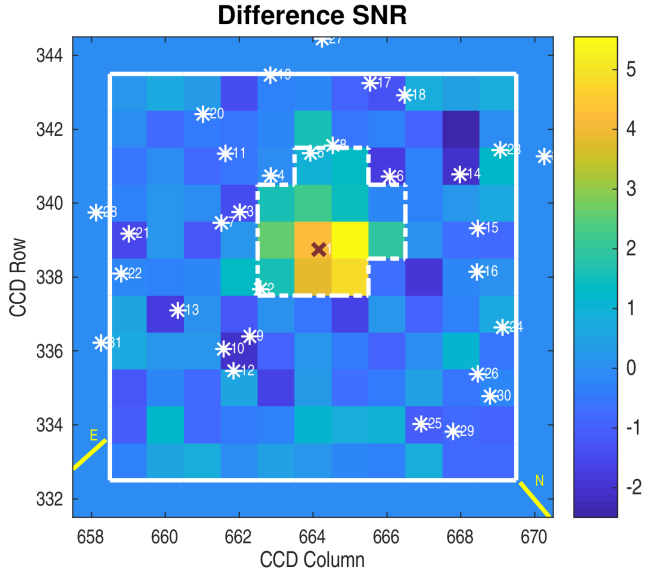


Planet Candidate 3 / Sector 2 / Target Pixel Table 129



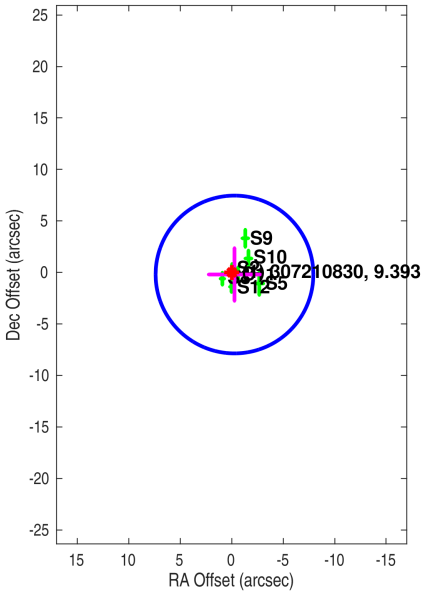




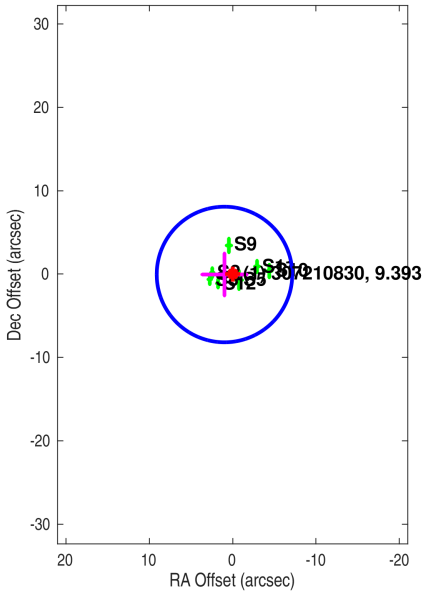


Planet Candidate 1

Offsets Relative to Out of Transit Centroid

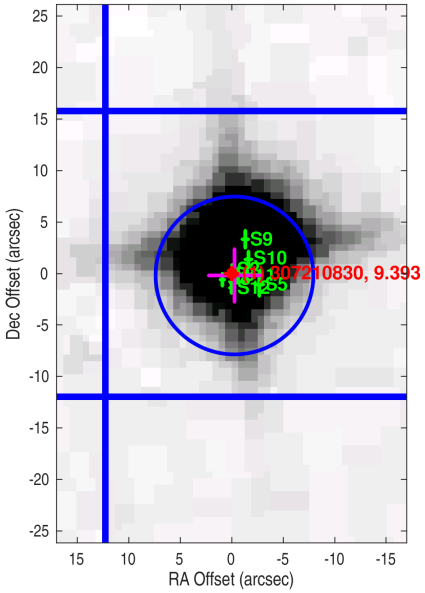


Offsets Relative to TIC Position

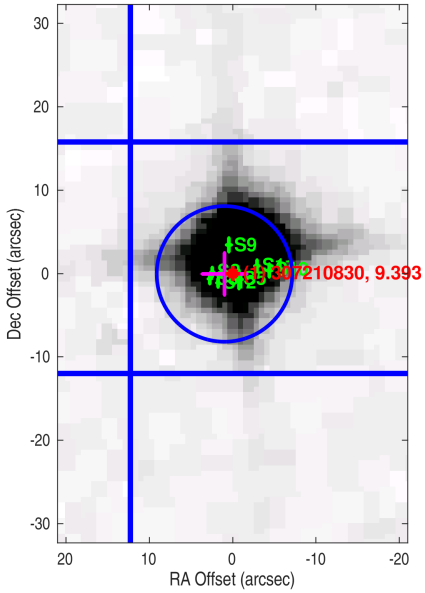


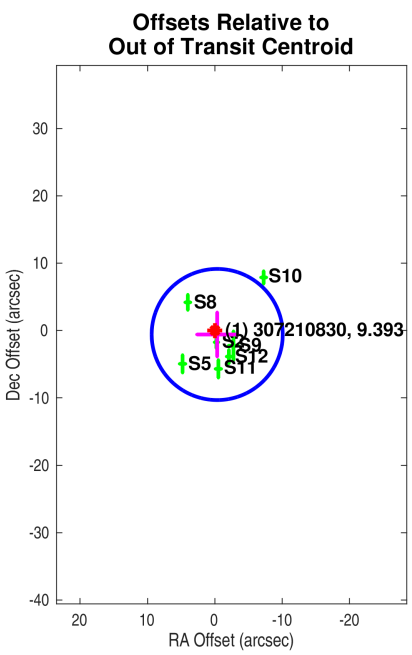
Planet Candidate 1

Offsets Relative to Out of Transit Centroid

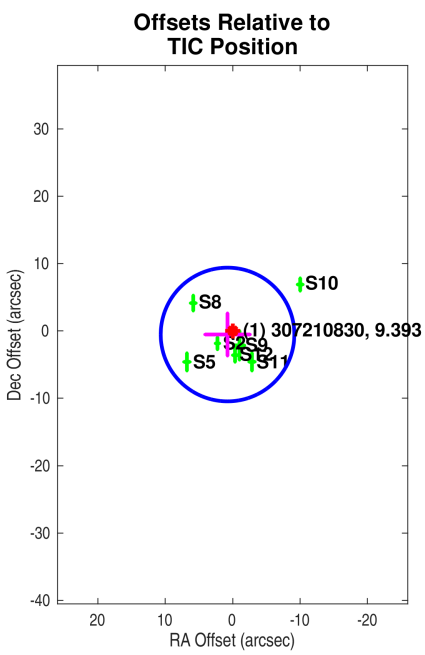


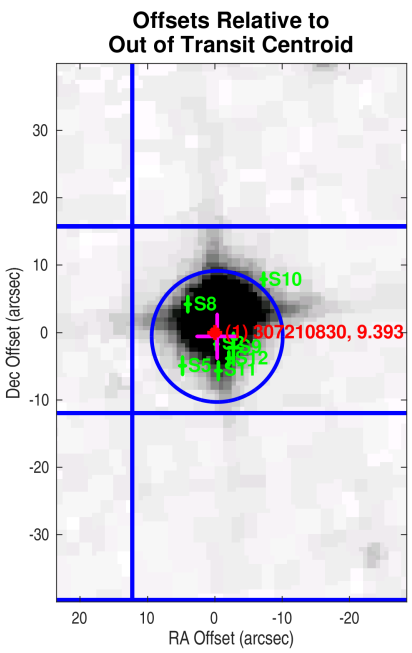
Offsets Relative to TIC Position



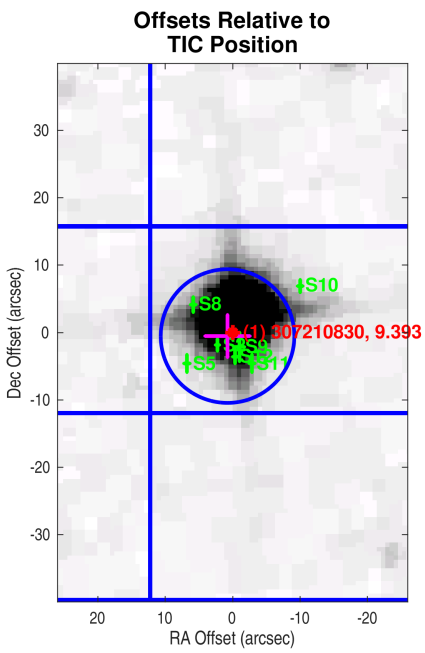


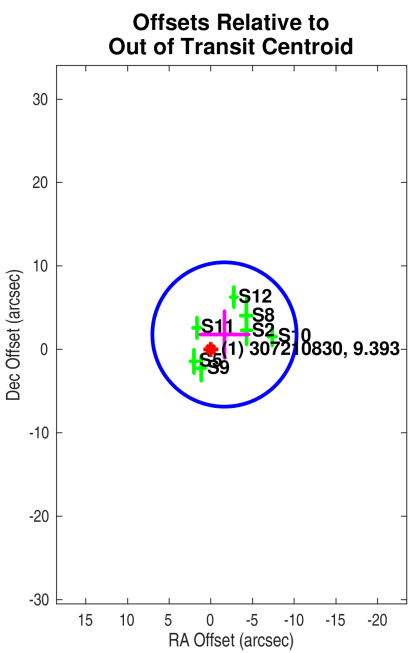
Planet Candidate 2



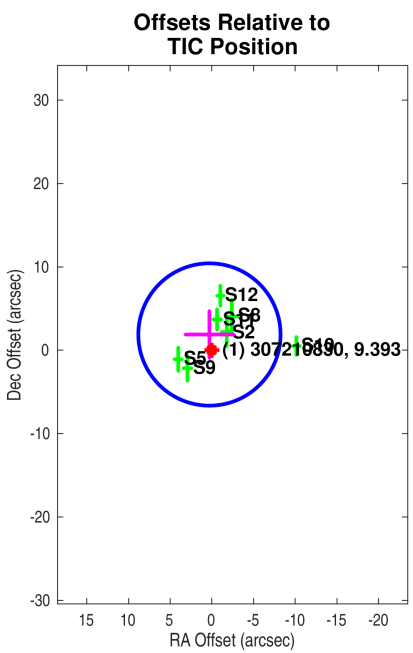


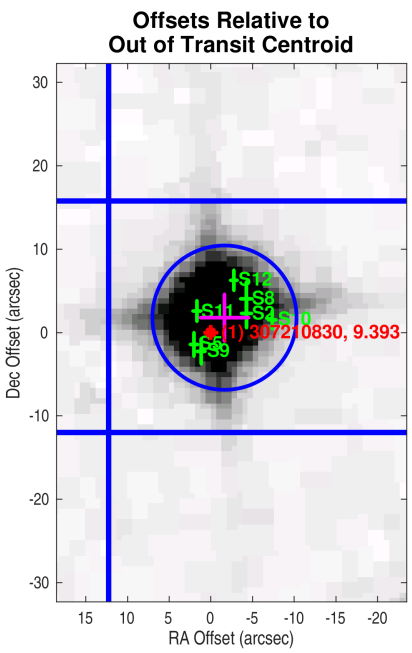
Planet Candidate 2



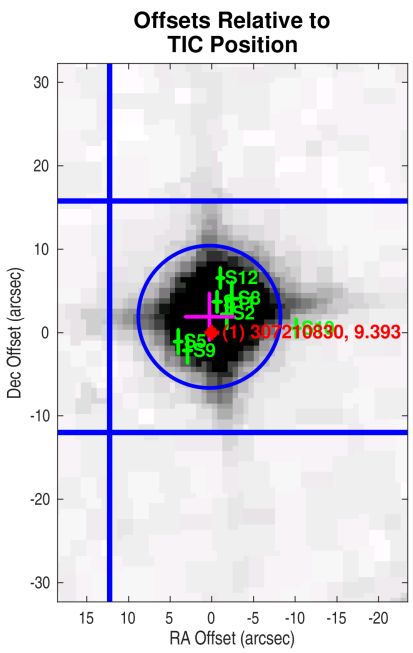


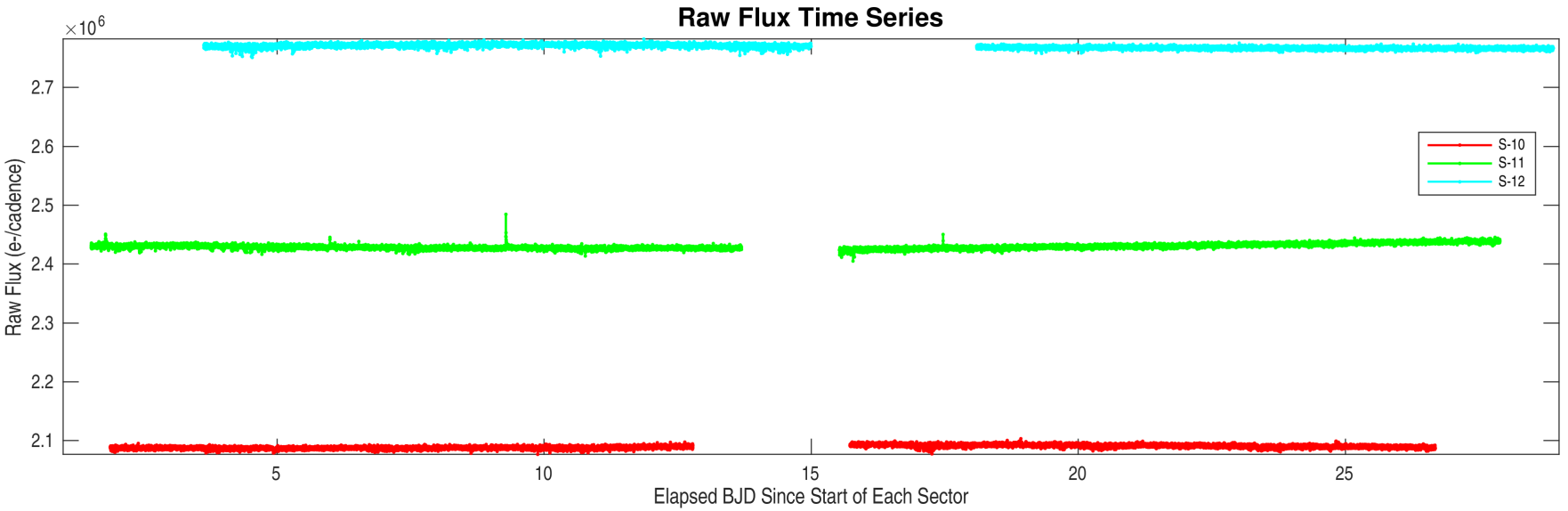
Planet Candidate 3

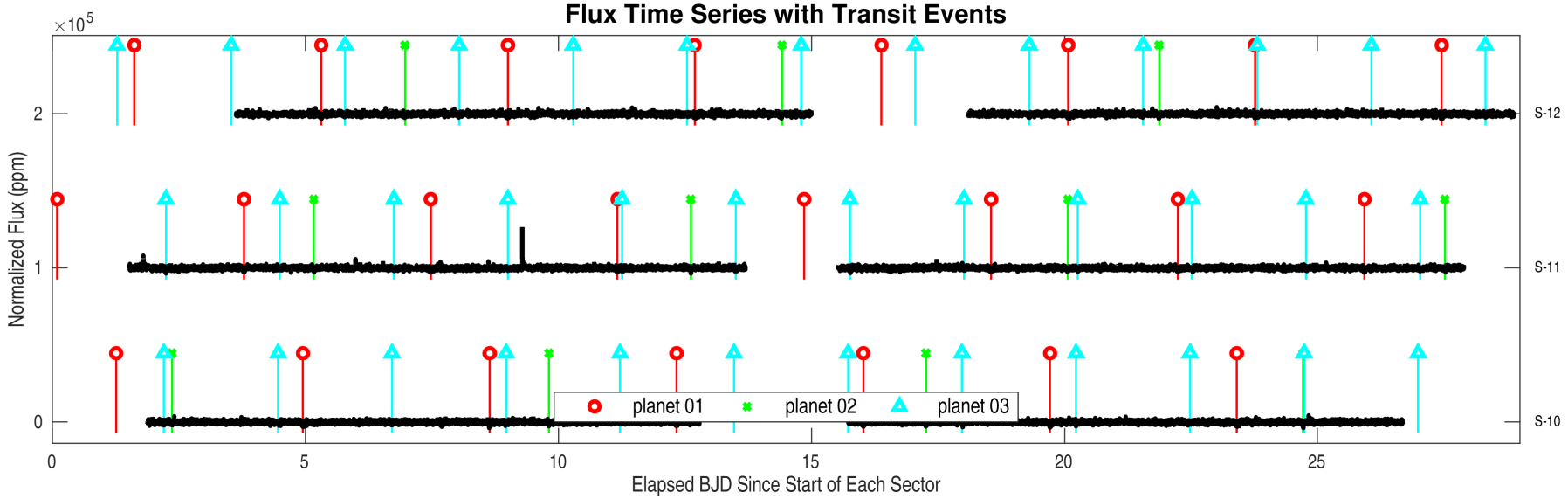


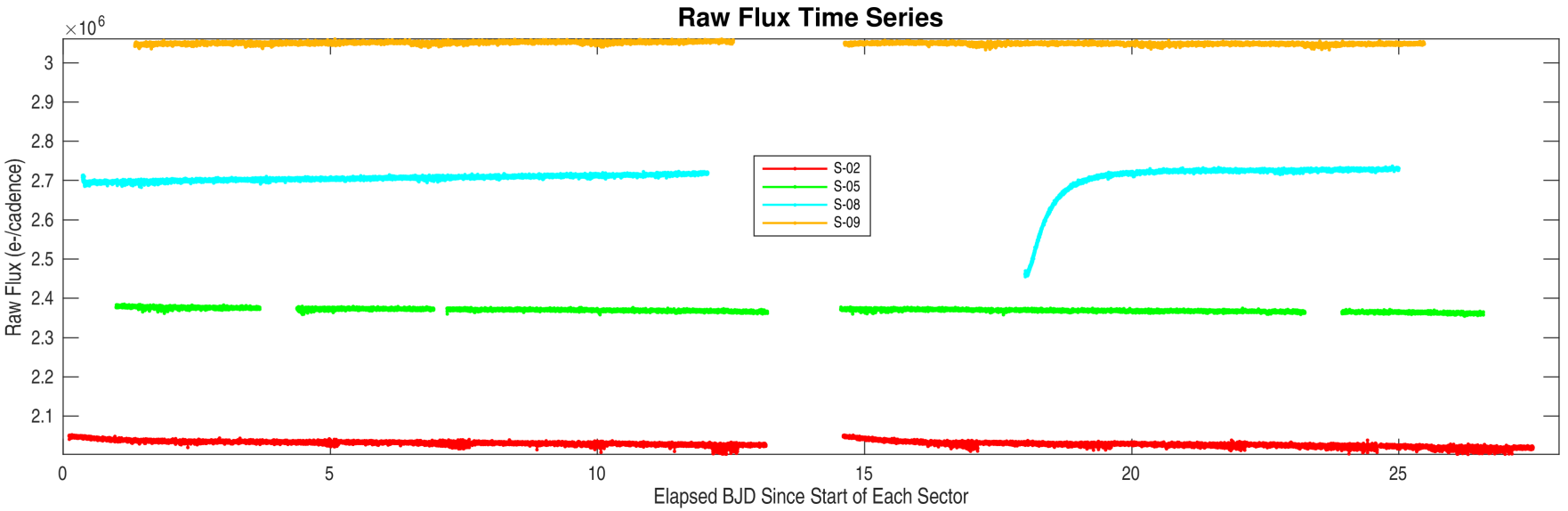


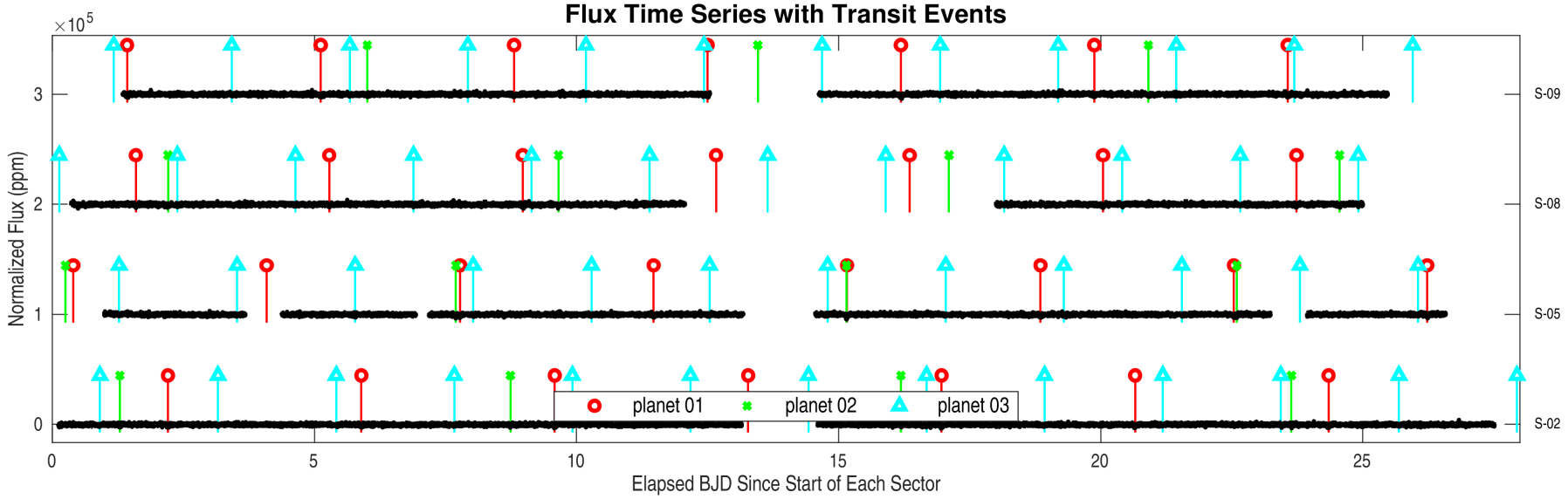
Planet Candidate 3

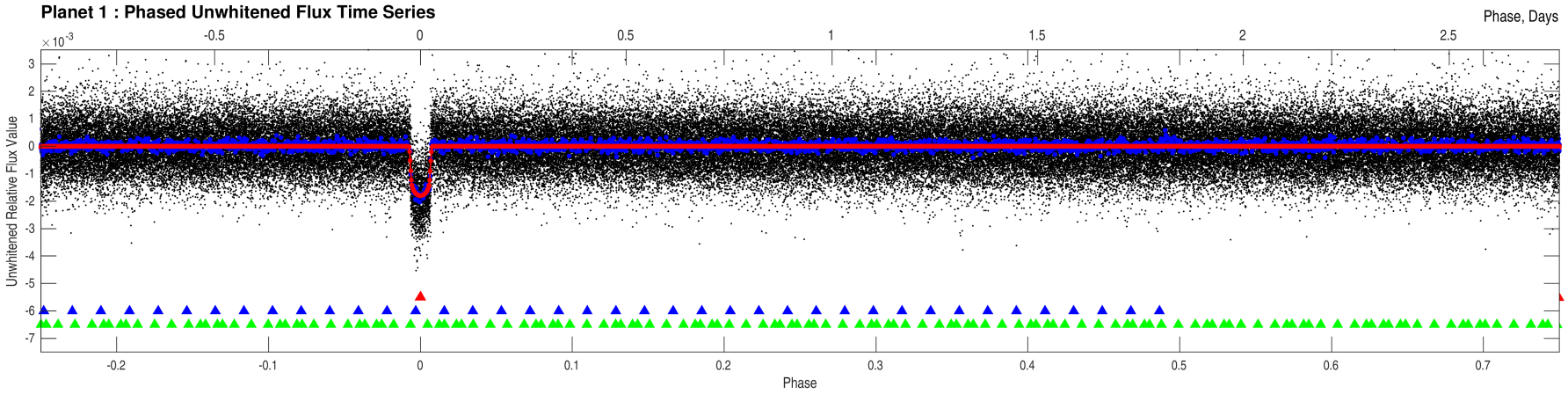


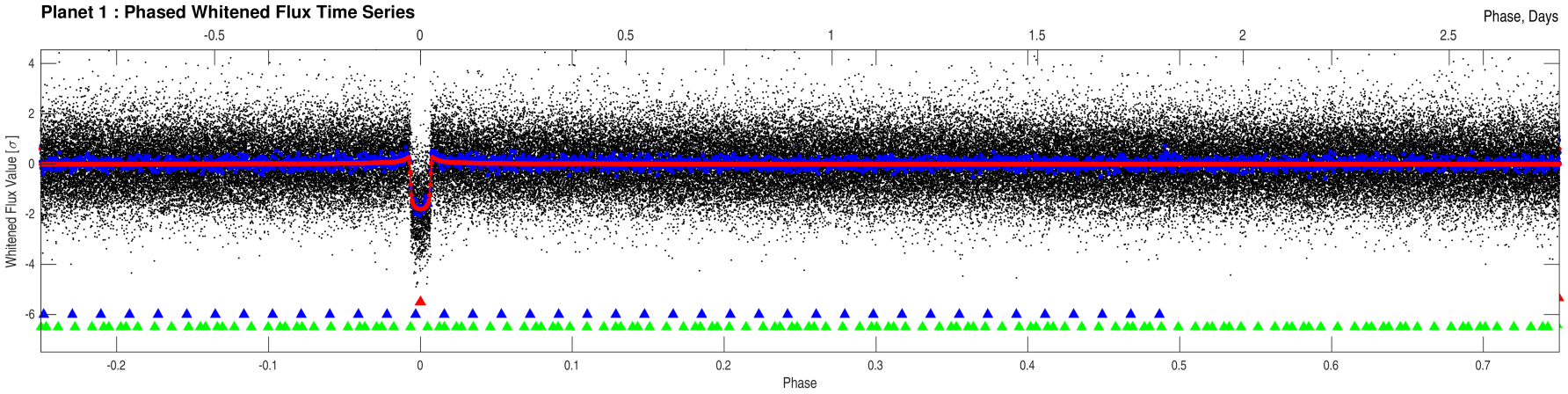

Raw Flux Time Series
×10^6
Raw Flux (e-/cadence)
2.7
2.6
2.5
2.4
2.3
2.2
2.1
5
10
15
20
25
Elapsed BJD Since Start of Each Sector
S-10
S-11
S-12

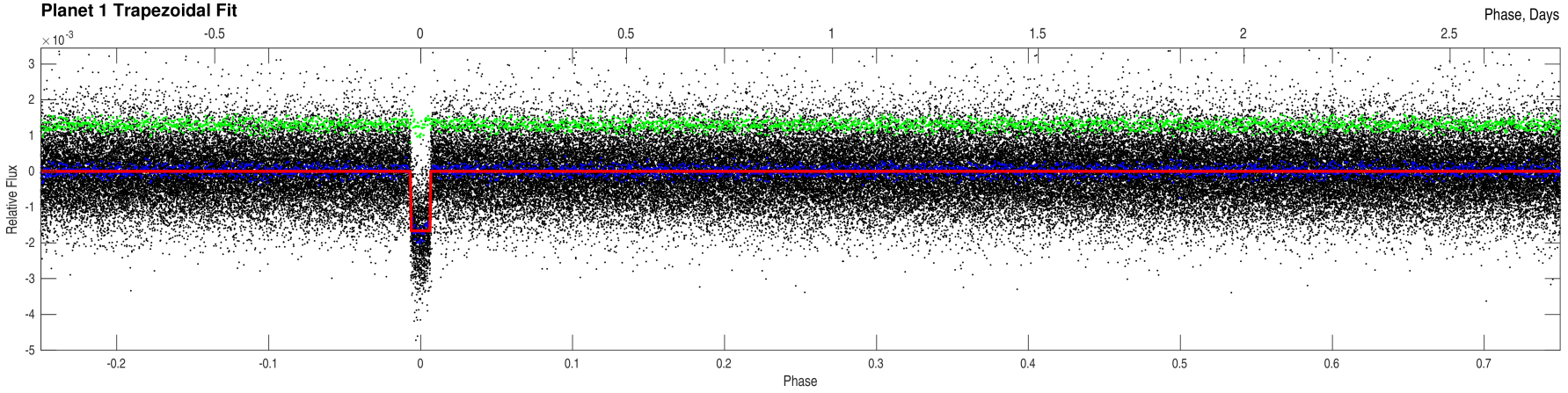

Flux Time Series with Transit Events
×10^5
Normalized Flux (ppm)
2
1
0
0
5
10
15
20
25
Elapsed BJD Since Start of Each Sector
S-12
S-11
S-10
planet 01
planet 02
planet 03

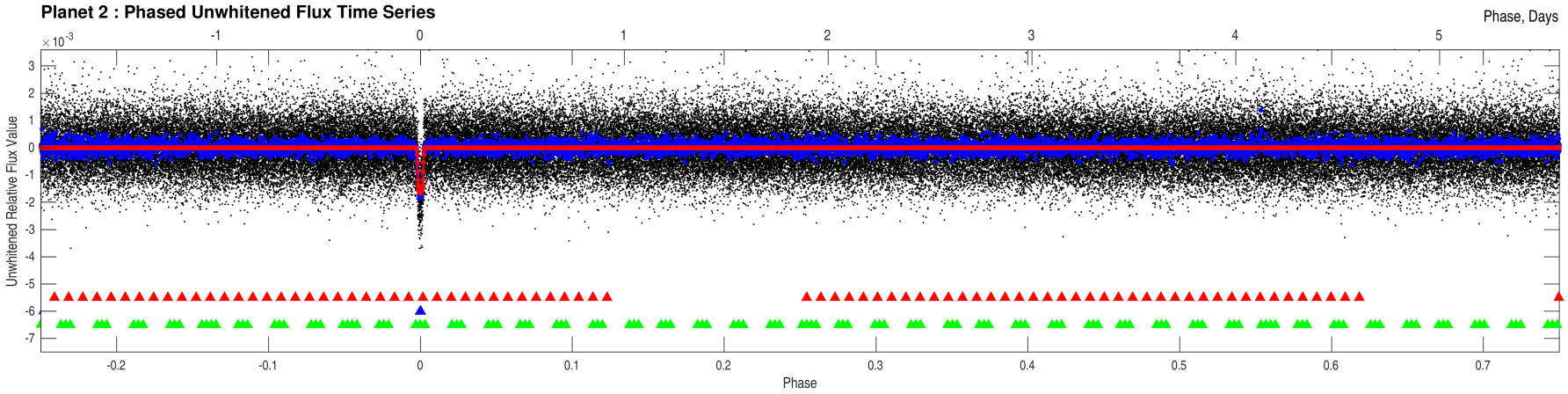

Raw Flux Time Series
×10^6
Raw Flux (e-/cadence)
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
S-02
S-05
S-08
S-09
0
5
10
15
20
25
Elapsed BJD Since Start of Each Sector

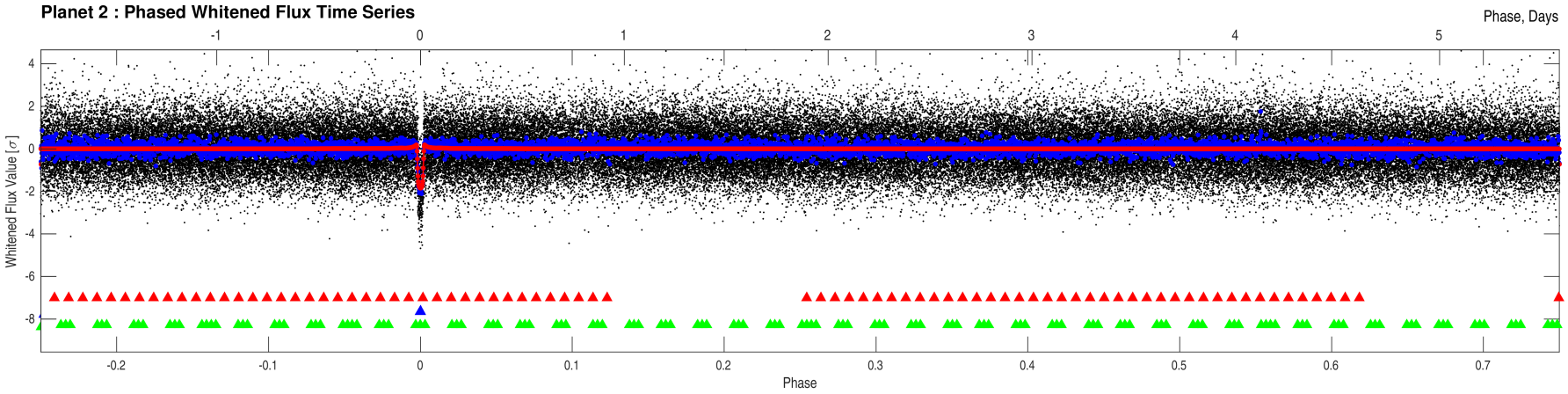

Flux Time Series with Transit Events
×10^5
Normalized Flux (ppm)
3
2
1
0
S-09
S-08
S-05
S-02
planet 01
planet 02
planet 03
0
5
10
15
20
25
Elapsed BJD Since Start of Each Sector

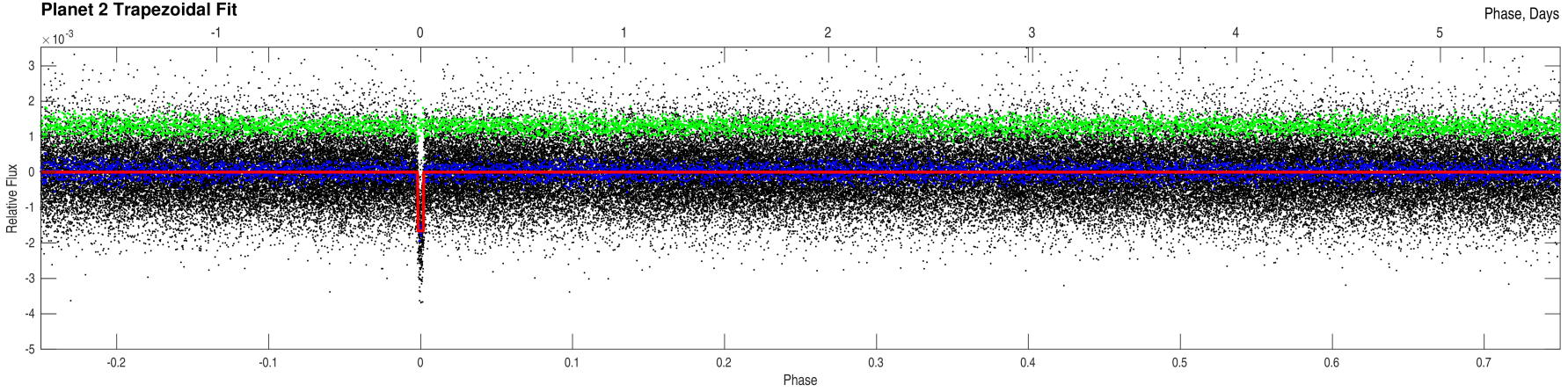

Planet 1 : Phased Unwhitened Flux Time Series
Phase, Days
Unwhitened Relative Flux Value
Phase

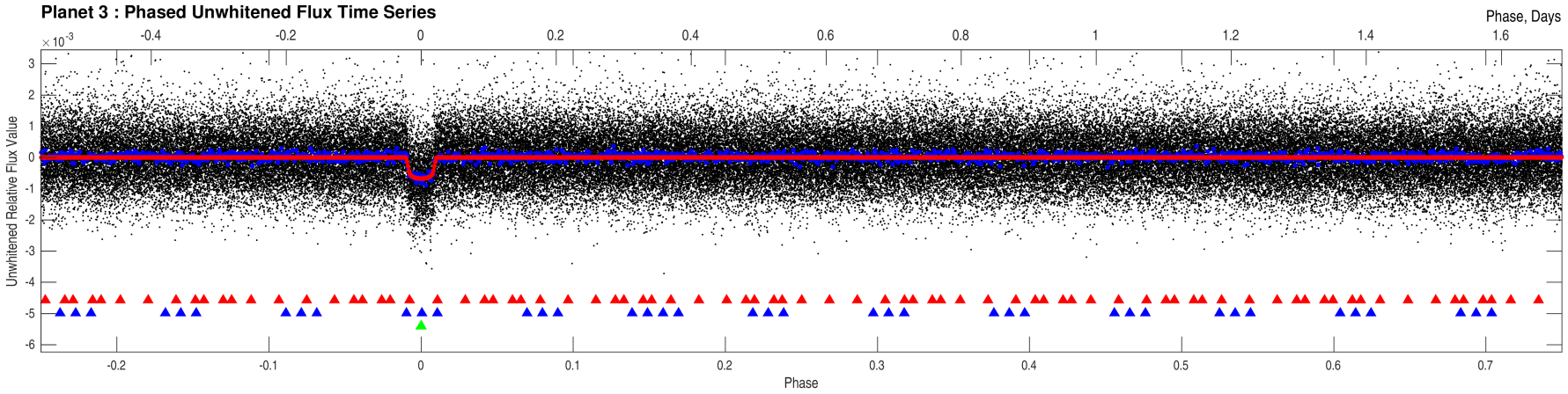

Planet 1 : Phased Whitened Flux Time Series
Phase, Days
Whitened Flux Value [σ]
Phase

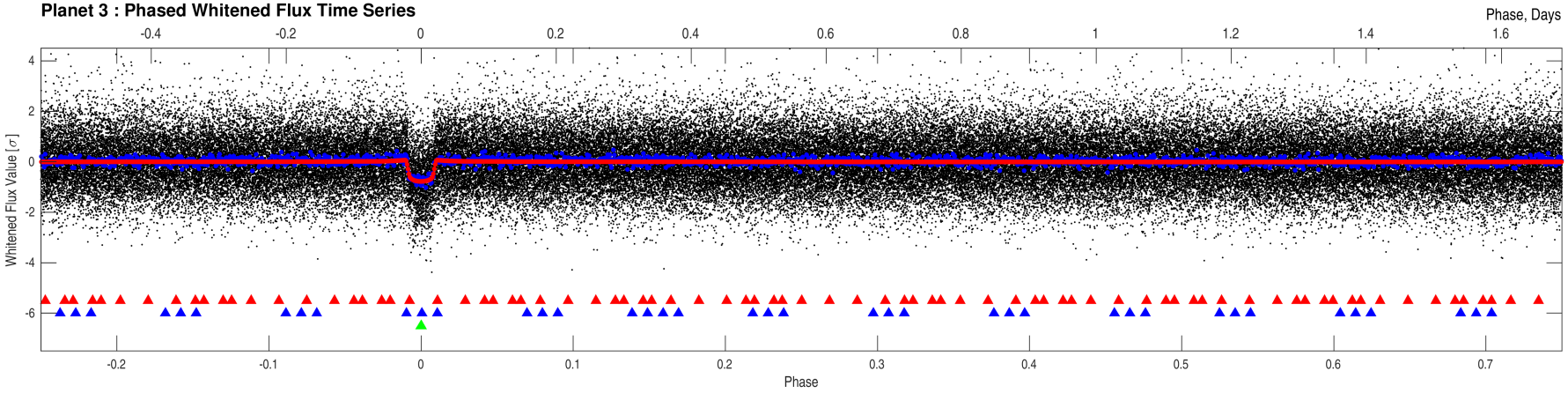

Planet 1 Trapezoidal Fit
Phase, Days
Relative Flux
Phase

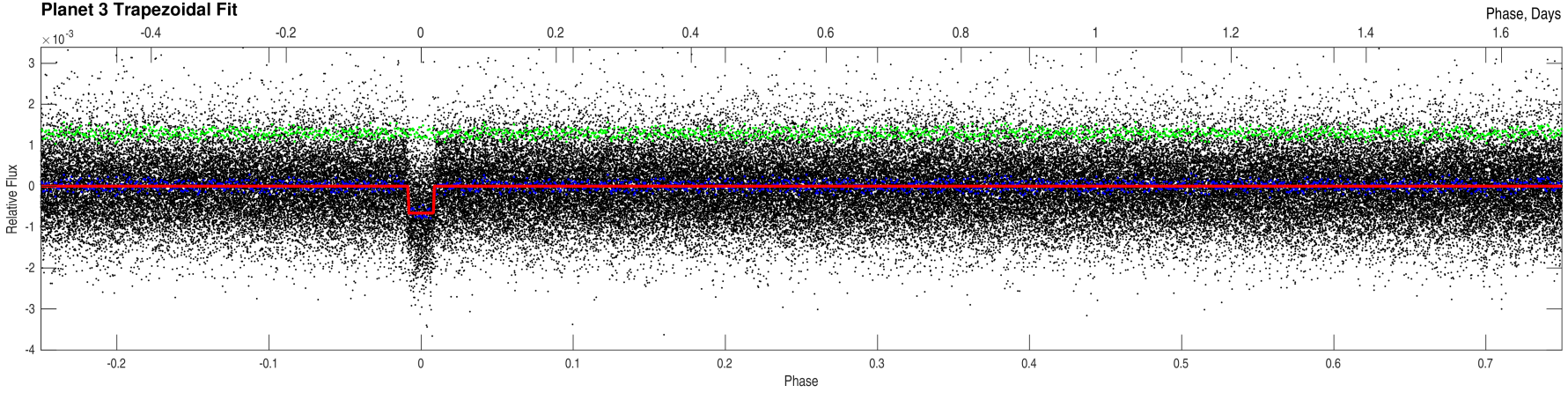

Planet 2 : Phased Unwhitened Flux Time Series
Phase, Days
Unwhitened Relative Flux Value
Phase


Planet 2 : Phased Whitened Flux Time Series
Phase, Days
Whitened Flux Value [σ]
Phase


Planet 2 Trapezoidal Fit
Phase, Days
Relative Flux
Phase

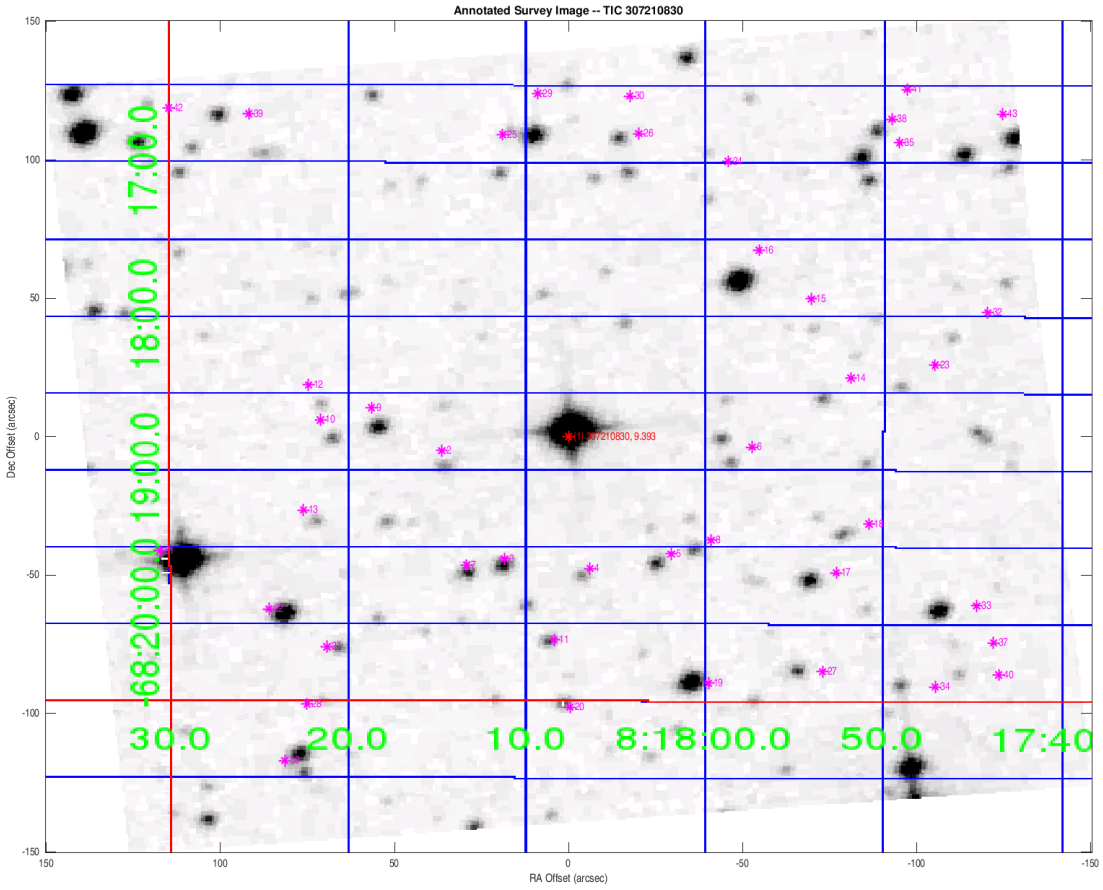

Planet 3 : Phased Unwhitened Flux Time Series
Phase, Days
Unwhitened Relative Flux Value
Phase


Planet 3 : Phased Whitened Flux Time Series
Phase, Days
Whitened Flux Value [σ]
Phase

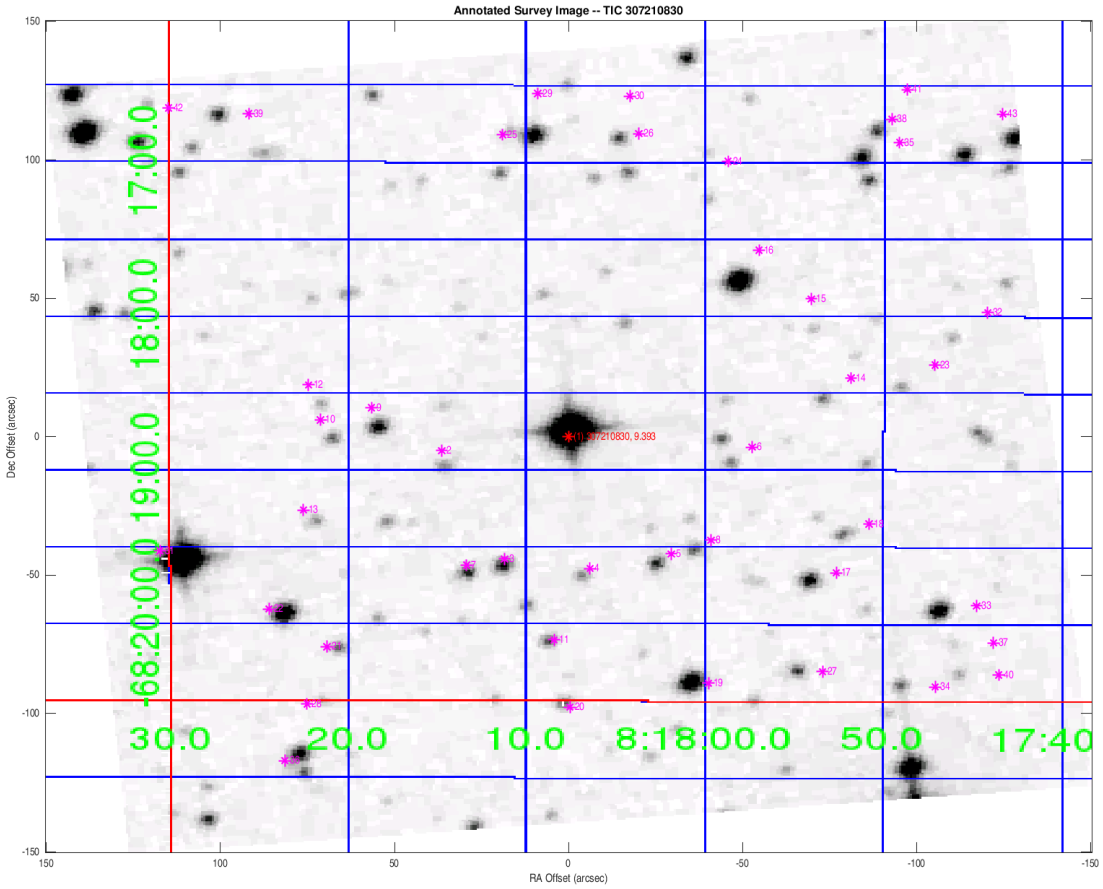

Planet 3 Trapezoidal Fit
Phase, Days
Relative Flux
Phase

Stellar Distance Table

Index	TIC ID	TESS Mag	Distance (arcsec)
1	0000000307210830	9.39	0.00
2	0000000307210836	17.61	36.73
3	0000000307210845	16.04	47.80
4	0000000307210847	17.37	48.03
5	0000000307210844	16.93	51.59
6	0000000307210835	17.59	52.82
7	0000000307210846	16.65	54.91
8	0000000307210842	16.73	55.39
9	0000000307210828	15.09	57.60
10	0000000307210831	17.41	71.48
11	0000000307210850	16.88	73.47
12	0000000307210827	17.52	76.99
13	0000000307210839	17.45	80.62
14	0000000307210826	17.46	83.85
15	0000000307210821	18.66	85.68
16	0000000307210817	13.45	86.76
17	0000000307210848	15.91	91.30
18	0000000307210841	17.37	91.95
19	0000000307210858	14.12	97.68
20	0000000307210862	17.30	97.71
21	0000000307210852	17.43	102.83
22	0000000307217499	14.42	106.22
23	0000000307210825	17.85	108.41
24	0000000307210810	17.72	109.46
25	0000000307210806	16.78	110.76
26	0000000307210805	17.42	111.28
27	0000000307210855	17.00	111.95
28	0000000307210861	18.14	122.33
29	0000000307210796	14.83	124.27
30	0000000307210798	16.90	124.27
31	0000000307217504	10.73	124.37
32	0000000307210823	17.49	128.48
33	0000000307210849	14.94	132.17
34	0000000307210859	17.07	138.82
35	0000000307210807	16.89	142.56
36	0000000307217485	15.61	142.62
37	0000000307210851	16.56	143.02
38	0000000307210803	15.75	147.58
39	0000000307210802	17.81	148.53
40	0000000307210856	17.81	150.63



Distances are corrected for proper motion. This table may not contain all of the objects shown.



Stellar Distance Table – Continued

Index	TIC ID	TESS Mag	Distance (arcsec)
41	0000000307210793	16.83	158.75
42	0000000307217543	17.66	165.27
43	0000000307210801	15.66	170.70

Distances are corrected for proper motion. This table may not contain all of the objects shown.