

Here are a list of errata for Mandel & Agol (2002):

1) In equation 7, λ_4 should read $E(2p)$ and $K(2p)$, *not* $E(2k)$ and $K(2k)$. This mistake is not present in the code.

2) In equation 7, λ_3 should read $E(1/2p)$ and $K(1/2p)$, *not* $E(1/2k)$ and $K(1/2k)$. This mistake is also not present in the code.

3) In equation 7, λ_5 should read:

$$\lambda_5 = \frac{2}{3\pi} \cos^{-1}(1 - 2p) - \frac{4}{9\pi} (3 + 2p - 8p^2) \sqrt{p(1-p)} - \frac{2}{3} \Theta(p - 1/2).$$

(The last term cancels the $\Theta(p - z)$ term in the expression for F just before equation 7). This mistake is also not present in the code.

4) For Case 11 in Table 1, η^d should be $1/2$, not 1, and λ^d should be zero, not 1. This mistake affects the code, but it is never encountered for planets that transit main-sequence stars since $p < 1$.

5) The case $z = 1 - p$ is missing for $z < p$ (as pointed out by Pal 2008). This case is rarely encountered as it is a set of measure zero.

6) There is a π missing in the denominator of the second term on the right hand side of equation (8). This mistake is not present in the code.