The correct version of formula (2) in Korner-Nievergelt et al. 2011, Journal of Wildlife Biology is:

$$\mathrm{p} = \frac{1}{nd}\,Af\Big[n + \sum_{x=2}^{n}\sum_{j=1}^{x-1} k^{x-j} s^{(x-j)d} \prod_{i=0}^{x-j-1}(1 - fk^i)\Big]$$