

CORRIGENDUM AND ERRATA

“A comparative study of models for predation and parasitism” by T. ROYAMA
Res. Popul. Ecol. Supplement No.1 (1971)

(1) In the formulation of “A geometric model for social interaction among parasites” (Section 4i, pp.70-74), my reasoning was partly incorrect.

Under the assumption that the parasites distribute themselves at random in a Poisson fashion, I “proved” in Appendix 3 that $\delta Y'$, the mean number of parasites within the area δ around a given parasite individual (excluding the given individual), was $\delta Y' = \delta Y / (1 - e^{-\delta Y}) - 1$ where Y is the density of the parasites. The reasoning is wrong, since the presence of any individual parasite should not influence the distribution of other parasites, because their distribution is assumed to be truly random, i.e. an independent distribution. Thus $\delta Y'$ should be δY and the Y' on pages 71, 72, and 76 should be replaced by Y . The “Proof” in Appendix 3 (p.89) should therefore be deleted.

Fortunately (from my position), this correction will not influence the main points (e.g. Figs. 12a and b) in Section 4i seriously.

(2) Misprints:

p. 15, left-hand side of equation (3.11)

Incorrect Yt . Correct bYt

p. 89, left-hand side of equation (iv)

Incorrect $\int_0^R 2\pi r^2 e^{-\pi r^2 X} dr$. Correct $\int_0^R 2\pi r^2 X e^{-\pi r^2 X} dr$.

“Application of the m^* - m method to the analysis of spatial patterns by changing the quadrat size” by S. IWAO
Res. Popul. Ecol. Vol. 14, No. 1 (July, 1972)

The equations (4) and (17) should be corrected to read as shown below:

page 100, eq. (4) $m_u^* = \frac{\sum \pi_j m_u^{2(j)}}{m_u^2} m_u$,

page 126, eq. (17) $n_u = \frac{1}{D_u^2} \left(\frac{\alpha_u + 1}{um_1} + \beta_u - 1 \right)$.