List with errata

Last up-date: 11 August 2023

1. p. 81, the calculation of the reproductive value is wrong
   levec <- Re(eigen(A)$vectors)[u,] should be
   levec <- Re((eigen(t(A))$vectors)[,u])

   The resulting values are then
   [1] -0.6571735 -0.7537393

   We usually scale them, such that the reproductive value of the first age class equals 1. If
   this is done, we get:
   levec / levec[1]
   [1]  1.000000  1.146941

   Hence, the shrikes of the second age class contribute about 1.15 times more to
   population growth than the first age class.

2. p. 181 in the simulation of the observation using observation matrix OPM
   true.state <- z[i,t-1] should be true.state <- z[i,t]

3. p. 187 in the block of code starting "From here onwards..." there are at two places
   } #s
 } #m
 which should be
   } #m
 } #s
 as the 'm' loop is nested inside the 's' loop. Note that these errors refer to comments
 only, so the code works correctly also if kept unchanged.
 The same error is also on page 196, lines 5-6 and lines 11-12

4. p. 187 in the code for the multinomial likelihood
   The line of code:
U[(t-1)*ns+(1:ns),(j-1)*ns+(1:ns)] <- U[(t-1)*ns+(1:ns),(j-2)*ns+(1:ns)] %*% psi[,] %*% dq[,]%

needs to be corrected to:

U[(t-1)*ns+(1:ns),(j-1)*ns+(1:ns)] <- U[(t-1)*ns+(1:ns),(j-2)*ns+(1:ns)] %*% psi[,] %*% dq[,]%

5. p. 188 in the block of code beginning "Call JAGS from R..." there is
par(mfrow=c(2, 2)) ;
which is superfluous with current versions of jagsUI. It does nothing except messes up
subsequent plots!
The same error is also on page 196, 2nd line from bottom: par(mfrow=c(3, 3)) ; is
superfluous and can be deleted.

6. p. 493 in the code for the multinomial likelihood
The line of code:
U[(t-1)*ns+(1:ns),(j-1)*ns+(1:ns)] <- U[(t-1)*ns+(1:ns),(j-2)*ns+(1:ns)] %*% psi[,] %*% dq[,]%

needs to be corrected to:

U[(t-1)*ns+(1:ns),(j-1)*ns+(1:ns)] <- U[(t-1)*ns+(1:ns),(j-2)*ns+(1:ns)] %*% psi[,] %*% dq[,]%