
How do population and community stability change during increasing or decreasing population trends ?

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Résumé

Under ever-increasing global pressures, many species show long-term declines in abundance while fewer species increase, putting wild communities far from any equilibrium. We investigate population and community variability during population trends and show that population variability during transients deviates from stationary expectations: increases generate excesses of variability while declines generate deficits. Scaling up to communities, community variability during transients depends on how population trends are distributed within the community.

Mots-Clés: population dynamics, variability, transients, population trends, stochastic models

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