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Examining the effect of reoccurring disturbances on population persistence with application to marine mammals

Amy Veprauskas, Azmy S. Ackleh, Tingting Tang

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Highlights

- Developed a two-state Markov chain model to describe reoccurring disturbances.
- Derived an approximation for the stochastic growth rate.
- The growth rate is most sensitive to the magnitude of impact of a disturbance.
- Increasing disturbance frequency can have a dramatic impact on sperm whales.

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