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A dynamic bioenergetic model for coral-Symbiodinium symbioses and coral bleaching as an alternate stable state

Ross Cunning, Erik B. Muller, Ruth D. Gates, Roger M. Nisbet

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## 1 **Highlights**

- 2 • A dynamic model of coral symbiosis including photo-oxidative stress is presented.
- 3 • Coral bleaching is an alternate stable state of systemic carbon-limitation.
- 4 • Light, feeding, and nutrients interactively affect coral bleaching responses.
- 5 • Open source R code advances theoretical tools in coral biology and ecology.

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