















Difficulties & hopelessness in ecosystem modeling

- We need many unverified assumptions and intuitive understanding is usually difficult
- "Ecosystem models without errors" often overfit observed data and predict a unique future.
- Indirect effects via the third species or adaptive change in traits is often counterintuitive and not negligible in the long-term effect (see Abrams, Polis...);
- Indeterminacy (Yodzis 1988): Results (+/-) vary with small change in parameter values

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