

The decline of fisheries in Japan described by a simple dynamic model

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The Lotka-Volterra (or Prey-Predator) model was probably the first dynamic model ever proposed, but it was never really validated for real-world system. However, we found that the model can be used for the quantitative description of fisheries: let state R=fish stock resource (the Prey) and C=capital investment of Fisheries (the Predator) and see what happens...



I.Perissi (INSTM), U.Bardi (INSTM), T. El Asmar (FAO), A. Lavacchi (ICCOM-CNR).



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