

Boundary forcing-induced oscillations in a phytoplankton-zooplankton patch

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Recently the authors have examined the behavior of plankton patches under variable side conditions. This study investigates the dependence of solutions in a more complicated situation, given by a very simple phytoplankton-zooplankton dynamical model on boundary perturbations. More specifically, we examine the effect of periodic boundary forcing on the plankton density, showing in particular that disturbances in one density entail the occurrence of oscillations also in the other density.

References

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