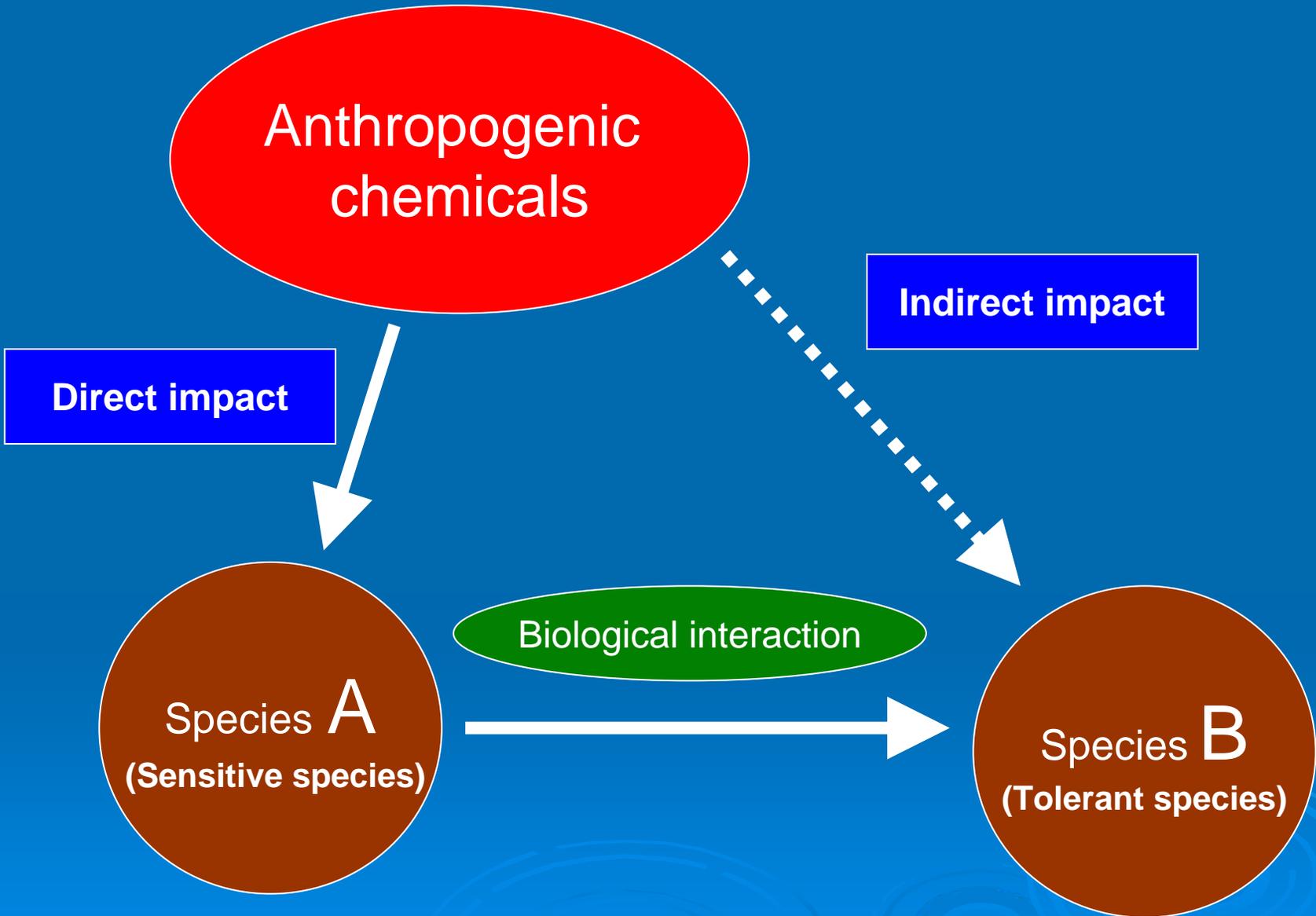


図2：植物プランクトン群集に及ぼす食物連鎖を介した魚のトップダウン効果(実線の矢印)とボトムアップ効果(点線の矢印)。

破

BIOLOGICAL INTERACTION

one of the most important
factors controlling organic
community structures



Mesocosm tanks



20-L polyethylene tanks
20 , 16h:8h L-D photocycle



Bottom mud of a lake

Tap water

Chlorella (food)

Lining with
polyethylene film

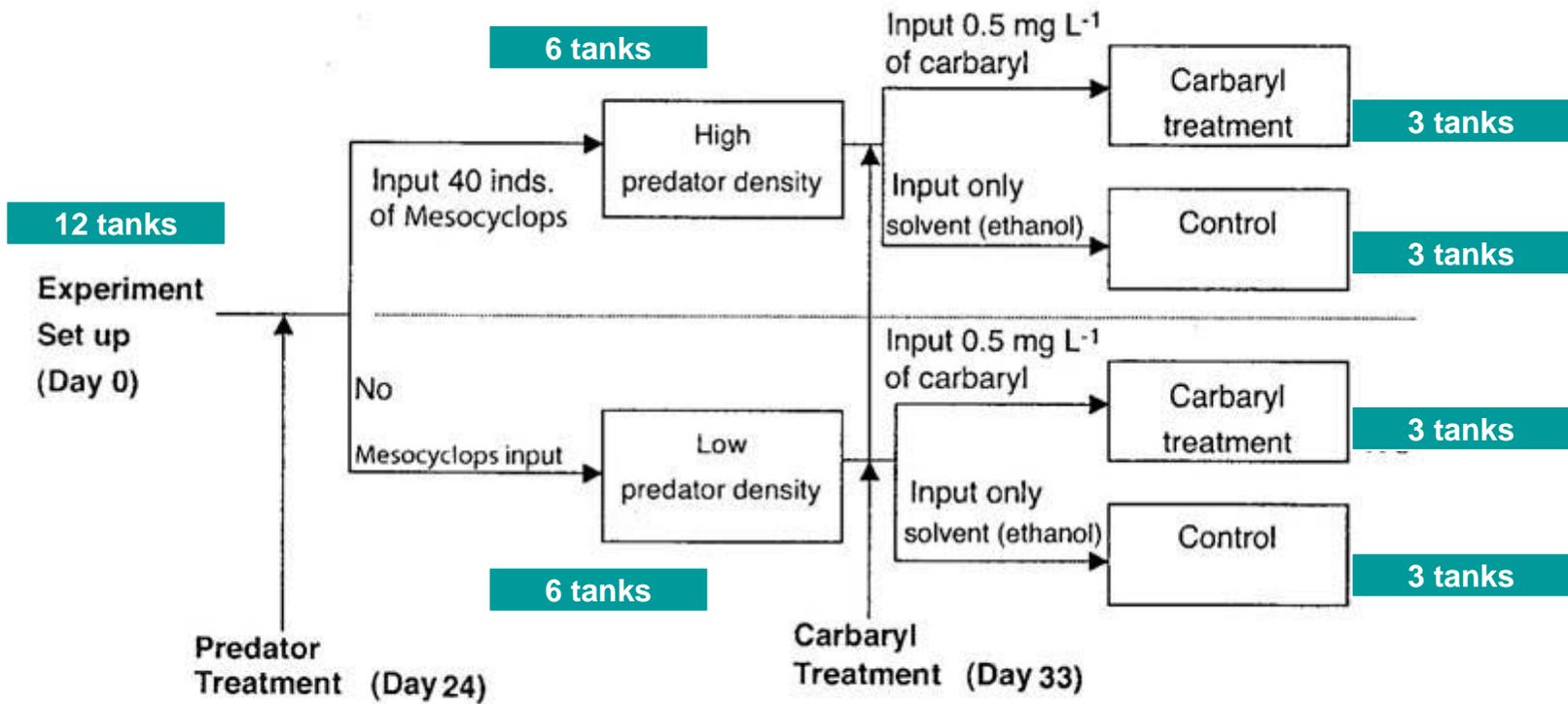


Fig. 1. Experimental procedure. The experiment was started on 19 April 2003 (day 0) and was terminated on 8 June 2003 (day 46).

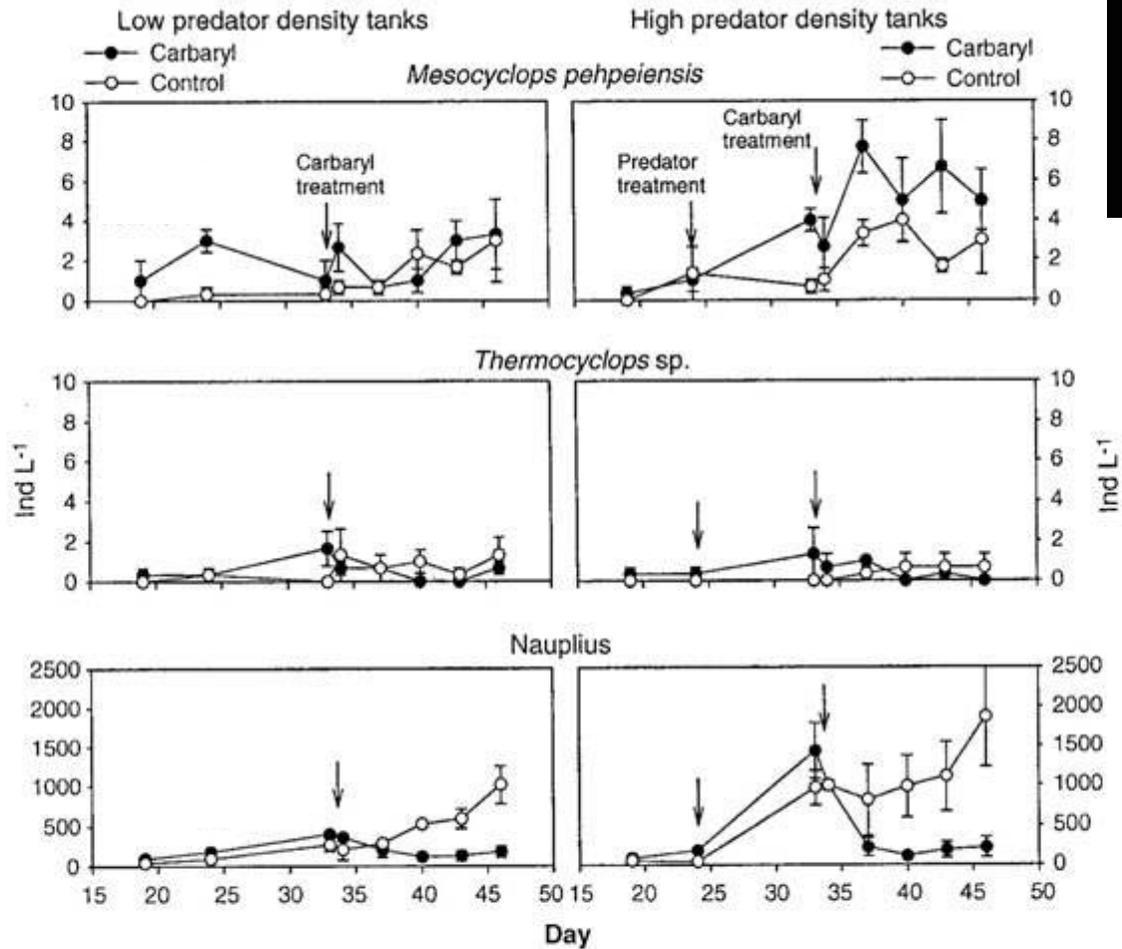
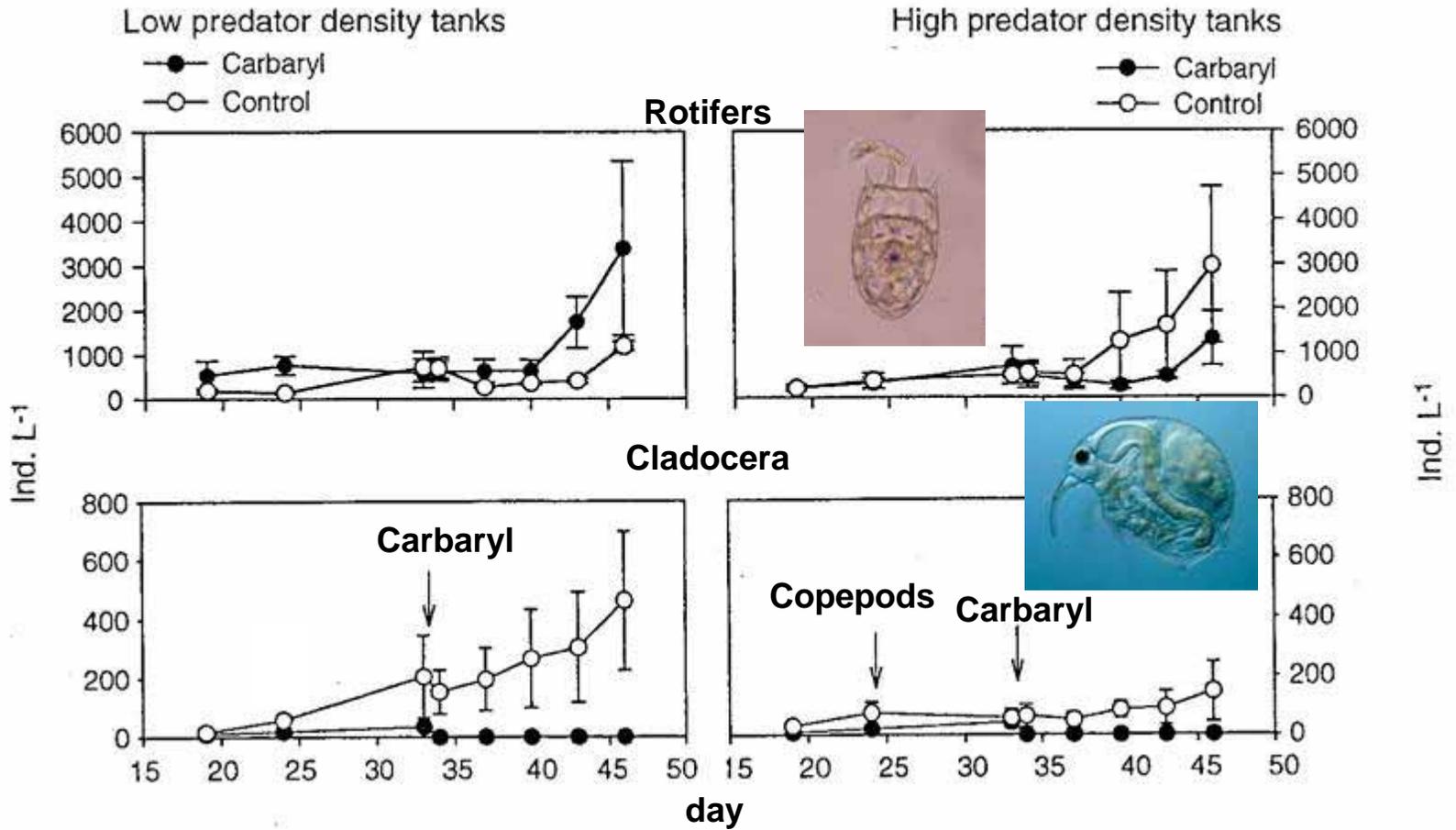


Fig. 2. Changes in the densities (average \pm S.E.) of copepodids and adults of *M. pehpeiensis* and *Thermocyclops sp.*, and the copepod nauplii in the mesocosm tanks.



Changes in densities (mean \pm SE) of rotifers and cladocerans in the mesocosm tanks.