

Project information

Keywords

Calanus spp., ocean acidification, physiology, behaviour, energetics, growth, development, lipid content

Project title

Prosjekt OA-3: Physiological effects of OA in Arctic copepods

Year

2014

Project leader

Howard Browman

Participants

Howard Browman, Haakon Hop, Peter Thor, Allison Bailey, David Fields, Jeffrey Ruge, Michael Arts, V. Thiyagarajan, Andrew Mount

Flagship

Ocean Acidification

Funding Source

Fram Centre + Institute of Marine Research + Research Council of Norway

Summary of Results

We conducted an experiment to assess the effect of two temperature levels and three pCO₂ levels on *Calanus finmarchicus*. The levels selected were framed by predicted increases over the next 100 years. Although the data are still being analysed, there appeared to be no effect of pCO₂ at either temperature. As expected, there were clear effects of increased temperature.

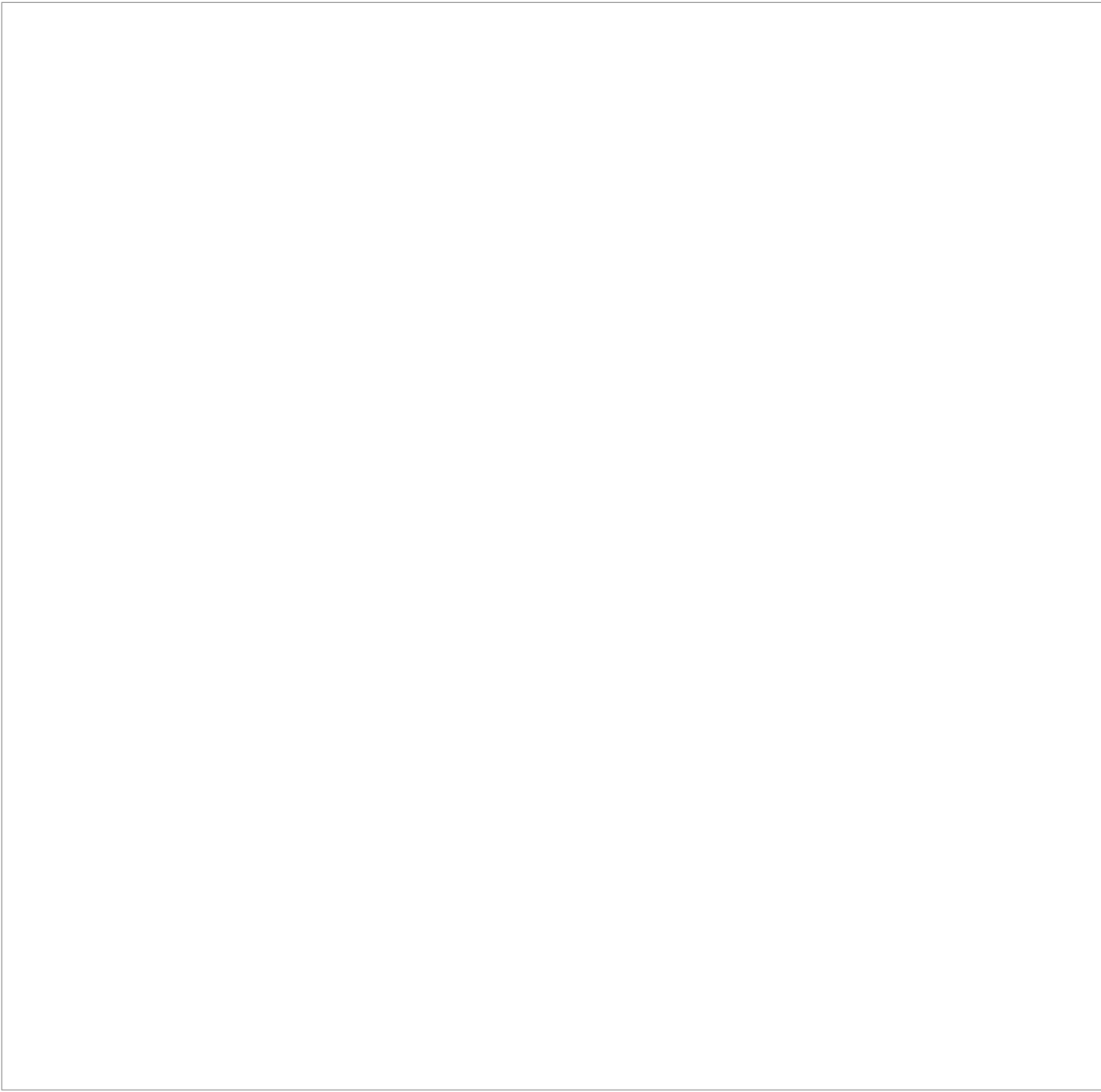
For the Management

The project management went according to plan.

Published Results/Planned Publications



Communicated Results



Interdisciplinary Cooperation

David Fields - Bigelow Laboratory for Ocean Sciences

Jeffrey Runge - Gulf of Maine Research Institute

Andrew Mount - Clemson University

Michael Arts - Ryerson University

Budget in accordance to results

As planned.

Could results from the project be subject for any commercial utilization

No

Conclusions

Data is still being analyzed. Nonetheless, it is safe to say that temperature increase consistent with global climate change predictions for the Arctic is a more important driver for *Calanus* spp. populations than is ocean acidification.