

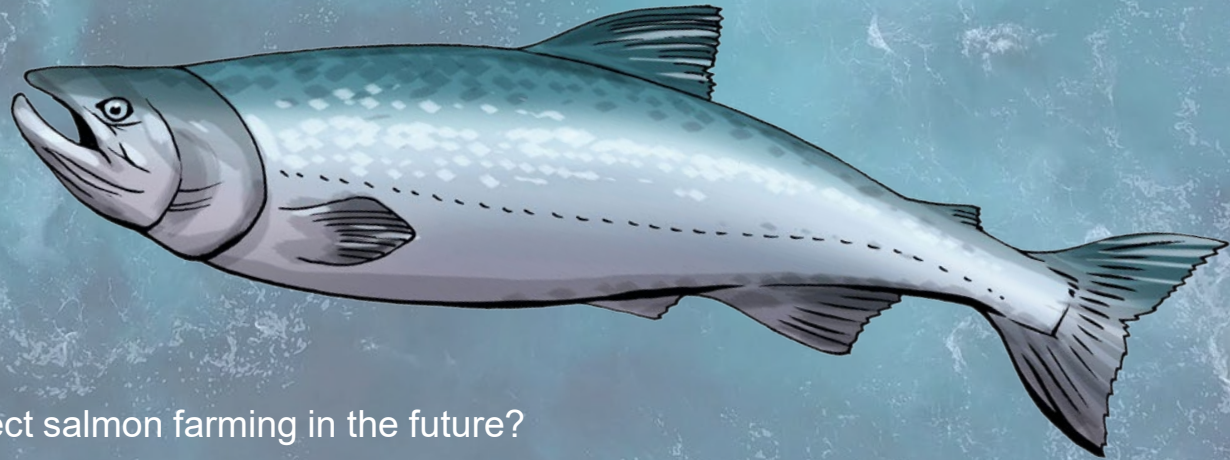
How rising ocean temperatures will affect the Norwegian salmon farming industry

BIO300A

Broll, Silje
Lervik, Tora
Prado, Tomas
Skorá, Olina

Introduction

- Climate change has led to rising ocean temperatures
- Salmon farming is a very important part of the Norwegian industry
- We need to know how the rising temperatures may affect the salmon farming



How will rising ocean temperature affect salmon farming in the future?

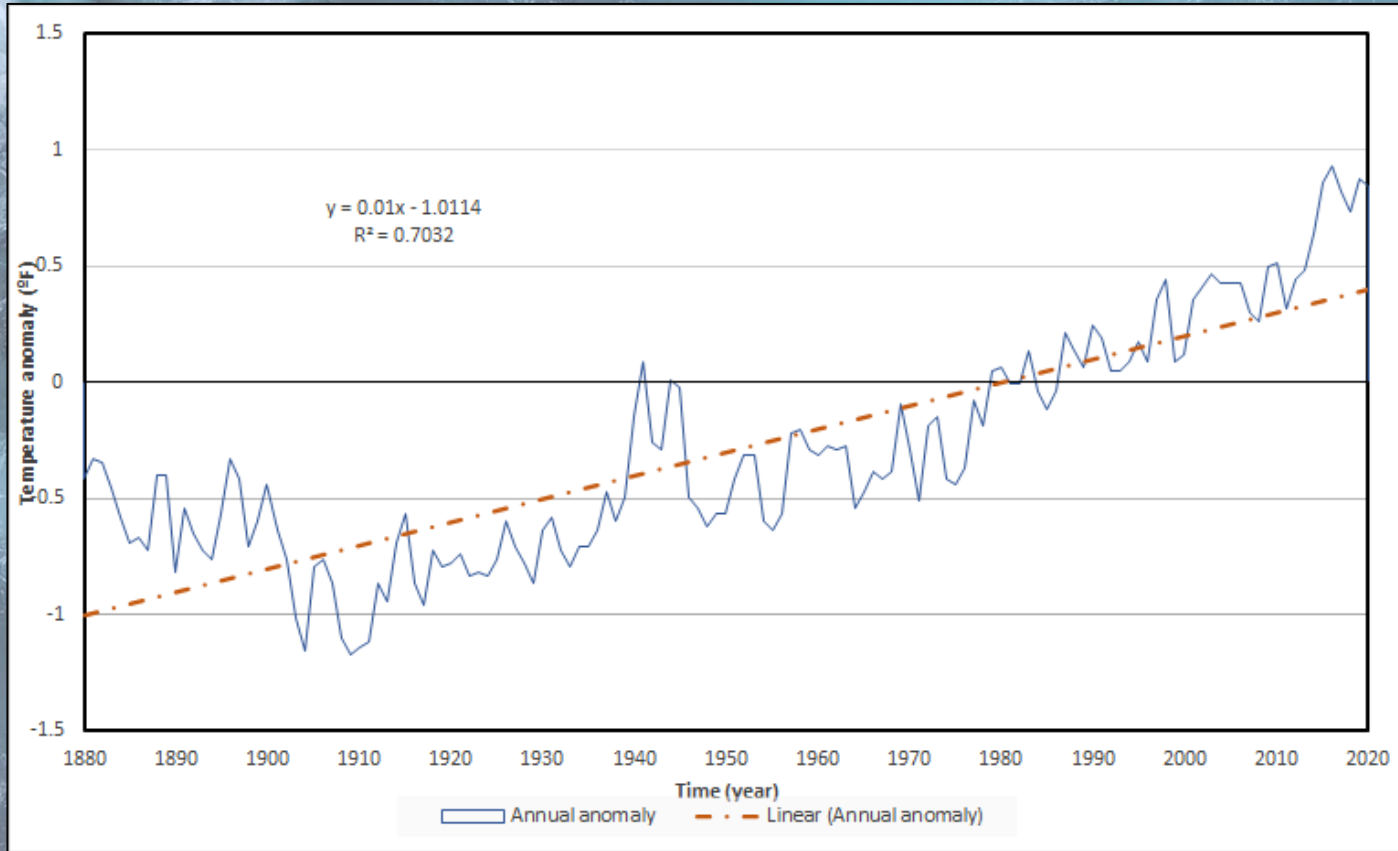


Figure 1. Changing average surface temperature of the world's oceans since 1880. This graph uses the 1971 to 2000 average as a baseline for depicting change. Dotted line shows the trend line from which the rate is obtained.

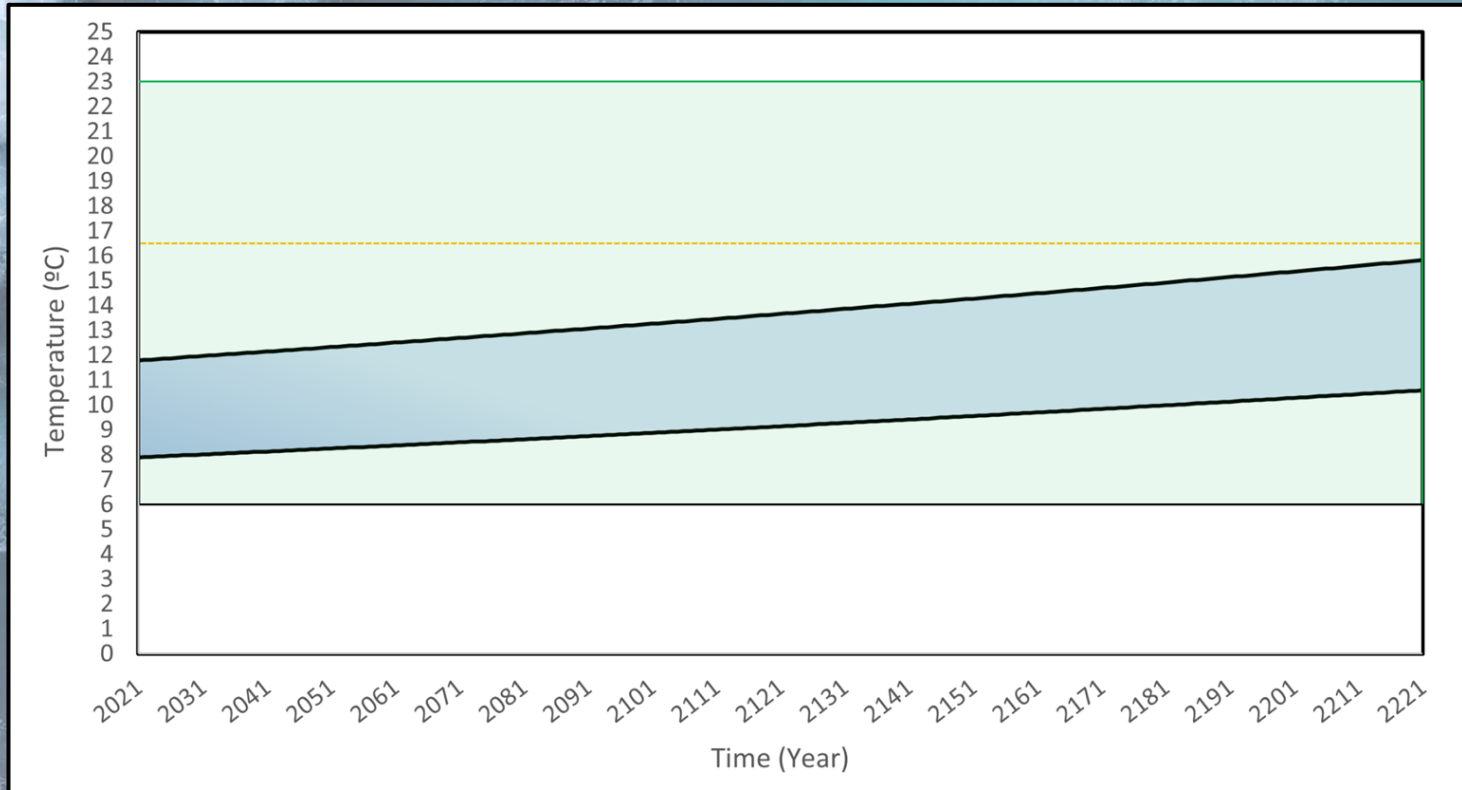


Figure 2. *Expected ocean temperature in Bergen for the next 200 years. Blue gradients show the mean for maximum/minimum temperature. Green zone shows the temperature tolerance for Atlantic salmon. Dotted line is the optimal temperature for growth.*

Main points

- Extrapolated rise rate from the world's ocean temperatures applied to Bergen temperatures
- Prediction with error
- Marked upward trend