

## Project information

### Project title

Effects of Ocean acidification on the reproduction of the reef building cold water coral *Lophelia pertusa*

### Year

2011/2012

### Project leader

Johanna Järnegren, NINA

### Participants

- Johanna Järnegren, NINA

### Flagship

Ocean acidification, Theme: Effect of ocean acidification on species and ecosystems

## Summary of Results

Experiment started September 25th 2011. Seven individuals of the white morphotype of the cold water coral *Lophelia pertusa* were exposed to three different levels of pH (8.1, 7.9 and 7.6) The experiment ran until January 25th 2012 (5 months), just before natural spawning was due to start. The corals were fixed, decalcified, embedded in paraffin and finally sectioned into thin slices that currently are waiting for staining and mounting. The sections will be analyzed for differences in fecundity, size of eggs, and tissue differences during the first half of May. The skeleton has been sent to colleagues in the USA to be investigated for skeletal density. The final results are expected in June 2012.

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## Published Results/Planned Publications

Planned publication in Marine Biology in 2012

## Communicated Results

- Local newspaper (Adressa), July 2011
- Presentations on Fram- OA opening in Bergen, November 2011
- Lecture at Klimadagen, organized by Center of Renewable Energy - NTNU
- Lecture at Direktoratet for Naturforvaltning, December 2012

## Interdisciplinary Cooperation

Will have to be completed after finishing the project.

## Budget in accordance to results

The budget has greatly helped the project. We expect this to be the start of further applications within the same area of research.

## Could results from the project be subject for any commercial utilization

No

If Yes

## Conclusions

This will have to be completed after the final results.