**Workshop hosted by Olivia Langhamer and Petra Rodewald :**

"Mitigation measures of human induced impacts on marine ecosystems"

**Objectives:**

There is a lot of pressure on our coastlines due to anthropogenic impacts and alterations in the marine environment. Population-level shifts, biodiversity losses, altered community structures and behavioural changes are some examples of human-induced shifts. For these reasons, marine sustainable development should be essential for the conservation of natural habitats, species diversity and for the management of marine resources.

A close interaction between technical development and ecological research is necessary to secure sustainable processes, where an adequate concern for environmental issues sets the stage for a sustainable development. In some cases, extensive monitoring programmes have been developed and conducted in planned and already existing installations, such as offshore wind and wave parks, artificial reefs and marine protected areas, to investigate in their effects and impacts on the marine environment.

In this workshop, we would like to invite speakers for giving short presentations about their research and current state of knowledge, discuss important topics within environmental monitoring programs and mitigation measures focusing on habitat enhancement in a broader sense, and finally to build networks for further scientific collaborations and project applications.

**Preliminary program to Workshop, hosted by Olivia Langhamer :**

10.00   Welcome and Introduction

*Olivia & Petra*

10.20  Ice breaker and presentation of participants and their expertise

10.40  Dan Wilhelmsson, KVA, Sweden on Risks and opportunities of habitat alteration in relation to offshore renewable energy

11.00 Coffee break with discussion  (Title will be announced at the workshop)

11.20 Discussion output

11.30 Hartvig Christie, NIVA on Monitoring artificial reefs in Norway

11.50 Johanne Arff, SINTEF on Flekkefjord artificial reefs and habitat enhancement

12.10 Thomas Dahlgren Uni Research Bergen on Monitoring techniques around offshore wind

12.30 Lunch break

13.30 Bente Graae, NTNU on NTNU Sustainability as Strategic Area

13.50 Frank Hanssen, NINA on Marine Spatial Plannning

14.10 Jan Sundberg, UU, Sweden on Monitoring AR effects around Lysekil wave power

14.30 Valeryia Komyakova, Uni Melbourne on Monitoring reef balls and other effective new reef designs

14.50 Coffee

15.20 Plenary discussion with a specific topic (coming soon)

16.30 End and Dinner