

Boulder reefs and fish in Danish waters: history, management and our latest biological results.

October 30th 17.00-19.00

Place: Universitetsparken 4, 3. sal, 2100 Kbh. Ø

Presentations will be in English, questions can be ask in English or Danish

Tim Wilms, PhD student, DTU Aqua:

Re-establishing degraded stone reefs in Denmark: exploring different restoration methods and surveying techniques.

Anthropogenic activities are severely degrading coastal marine ecosystems around the world. In Denmark, the extraction of marine boulders occurred for over a century, until it was banned in 2010. The biological community is, however, unlikely to recover from such activities unless the original topography and seabed composition is restored. Here, I will present our efforts in restoring various coastal reefs near Sønderborg in Denmark. Specifically, I study restoration effects on fish communities using baited and unbaited underwater video cameras. In addition, camera data are compared with simultaneous measures of eDNA. On this basis, the presentation will include a discussion on how to monitor reefs most efficiently.



Jon C. Svendsen, Senior Scientist, DTU Aqua: **Marine habitat restoration and offshore wind farm decommissioning: identifying efficient methodology to restore coastal reefs**

Many municipalities etc. are restoring coastal boulder reefs, but few studies have examined the best methodology for the restoration. It remains unknown if dense or scattered reefs provide the highest fish abundance and diversity. The topic forms the basis for the single large or several small (SLOSS) debate in conservation biology. To investigate the topic, we started a reef restoration study where we compare single large and several small restored reefs. Surveys were carried out using underwater cameras before and after the restoration. During the same year, the Vindeby offshore wind farm was decommissioned nearby. It is likely that the wind farm foundations functioned as coastal reefs. Contrasting boulder reef restoration and foundation removal, the presentation will close with a discussion of different decommissioning strategies and outcomes.

Alle er velkomne. Studerende er gratis, og alle andre kan deltage i første møde uden at være medlem.