Active Nautical Depth (AND):

Mixing and aeration of the sediment

- **Navigable fluid mud**
- Aeration = Growth of aerobic micro-organisms
  - Extracellular polymeric substance
    - Delays mud consolidation
  - Contaminant degradation
    - Tributyltin (TBT)

Tributyltin bioremediation:

- Antifouling compound: now banned but very persistent in anoxic sediment
- Biodegradation = major pathway for TBT elimination from environment
**Objective:** Assess the environmental factors controlling TBT biodegradation in sediment → optimize the implementation of Active Nautical Depth

**Method:**

- Microcosm experiment:
  - Different condition of: • Temperature
    • Aeration
    • Agitation
  - Organotin compounds measurement by GCMS
  - TBT degradation rate

Any suggestions or questions? Do come and speak to me!