



Webinar – Teachers Meeting 2 April 2025, 2 PM (UTC +2)

adopt a float Teachers meetings 2024 2025

Biology, physics, chemistry & maths at sea: autonomous measurements of water quality as motivation for science learning

With
Colin Stedmon
Professor, National Institute of Aquatic Resources, Technical University of Denmark

Technical University of Denmark **DTU**

CNRS SORBONNE UNIVERSITE

The 2nd of April 2025, 2 PM (UTC +2) meet online Professor Colin Stedmon of the Technical University of Denmark. He will showcase how the data collected by Argo floats can be used to teach core scientific principles.

Planet Earth is really planet Ocean. To understand global patterns in **climate, weather** and **biodiversity** we need to measure the properties of the Ocean, that covers the most of Earth's surface. Some of this can be done by a fleet of **autonomous robots** called Argo floats which drift and dive in the world's ocean and send back their measurements via satellite. These properties span a range of physical, chemical and biological measures which can also provide a wealth of background **material for teaching fundamentals of science**.

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What is adopt a float ?

adopt a float is an educational program that offers students worldwide the opportunity to adopt profiling floats —underwater robots that drift in the Ocean to explore and monitor its health. The program enables classes to access and interpret real-time scientific data. Beyond approaching the float technology, adopt a float invites to dive into ocean sciences and understand global challenges, with the guidance of experts, through educational resources and during in-class sessions.

To support educators, adopt a float also organizes Teachers' Meetings, where researchers lead sessions designed to deepen their understanding of ocean sciences, enhance "Ocean literacy," and inspire classroom activities.

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