

The Aquatic Physics Group

Lakes, reservoirs and rivers are important resources and habitats, and are ultimately linked to the terrestrial ecosystem. The physical transport of substances (oxygen, nutrients, heat, pollutants) within these aquatic systems and across interfaces defines their ecological "health" and functioning. The Aquatic Physics Group utilizes state-of-the-art field measurements combined with system analytics and modeling to explore these important physical processes and their impacts.

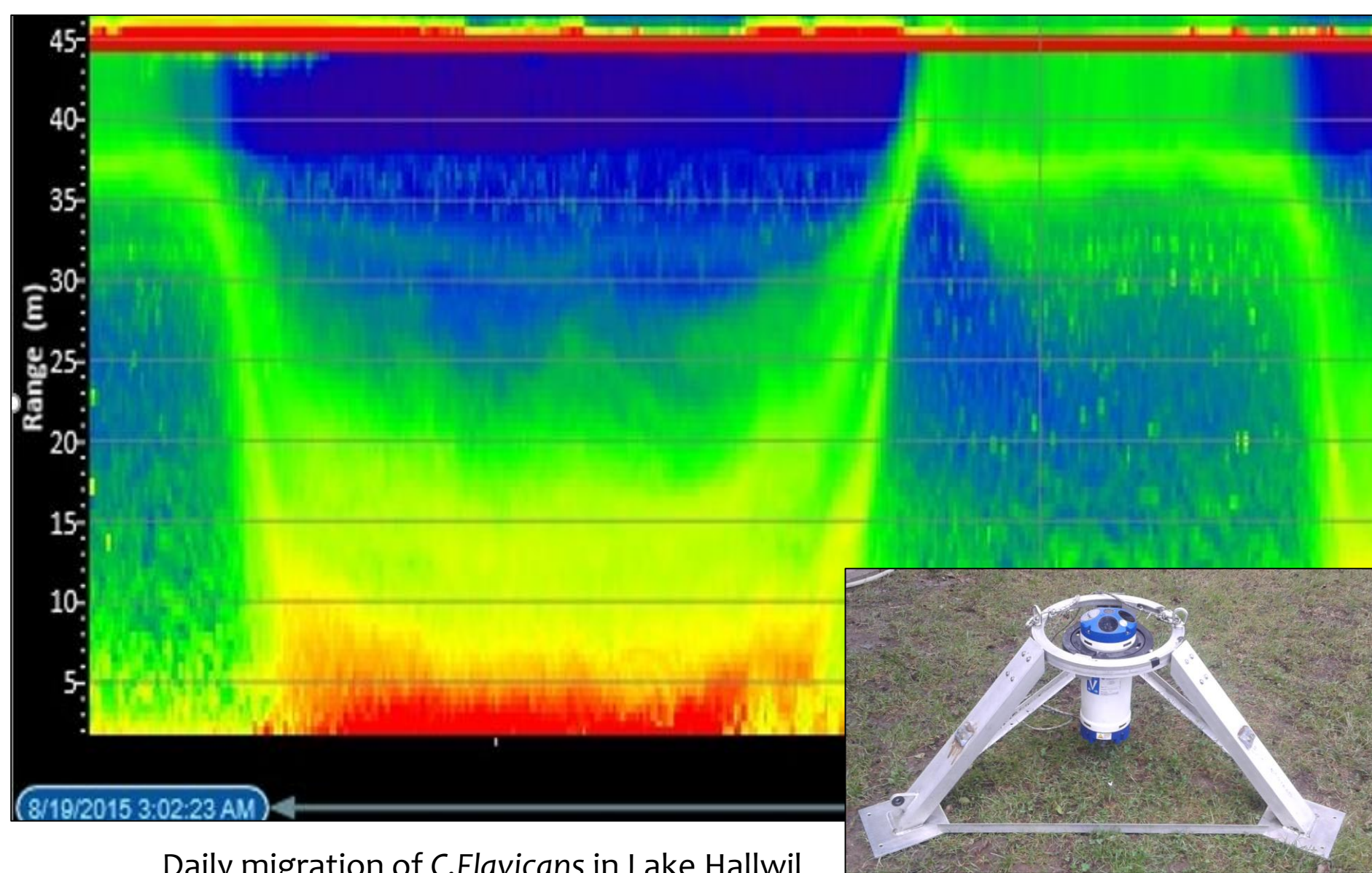
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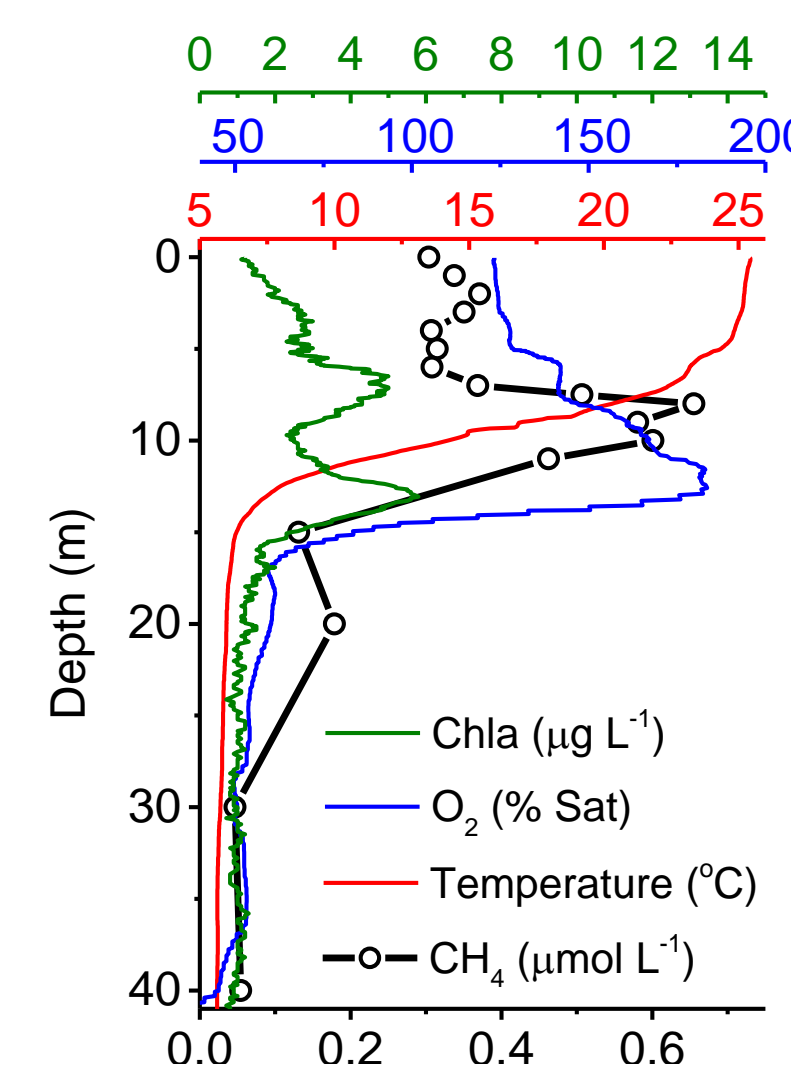


Our research methods in aquatic systems

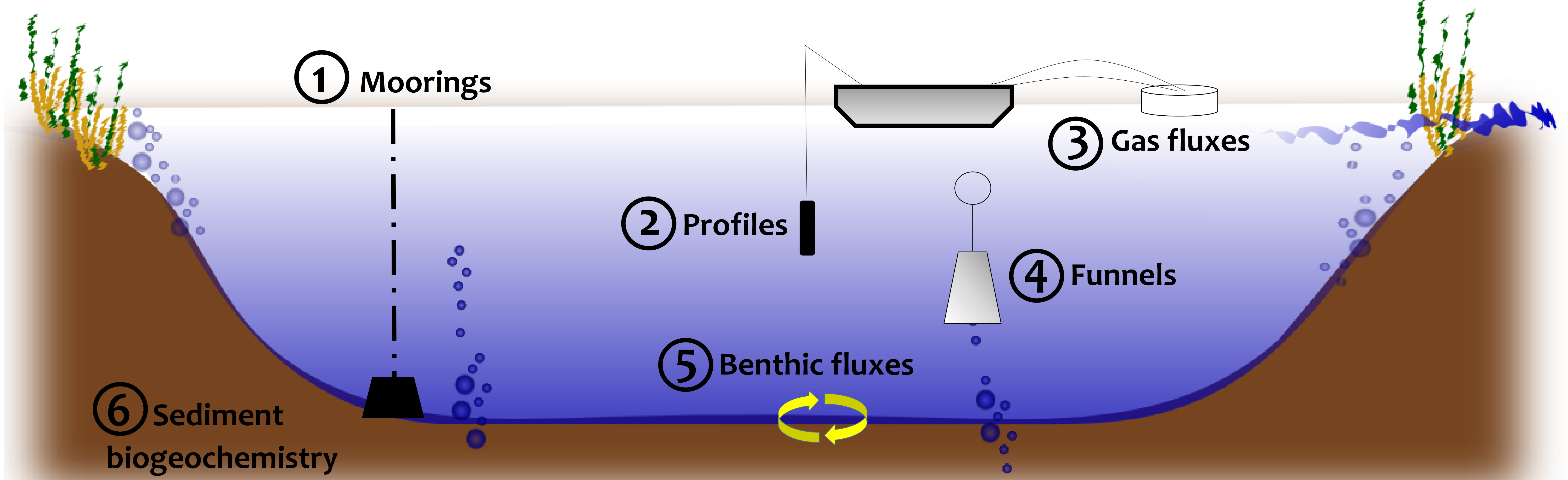
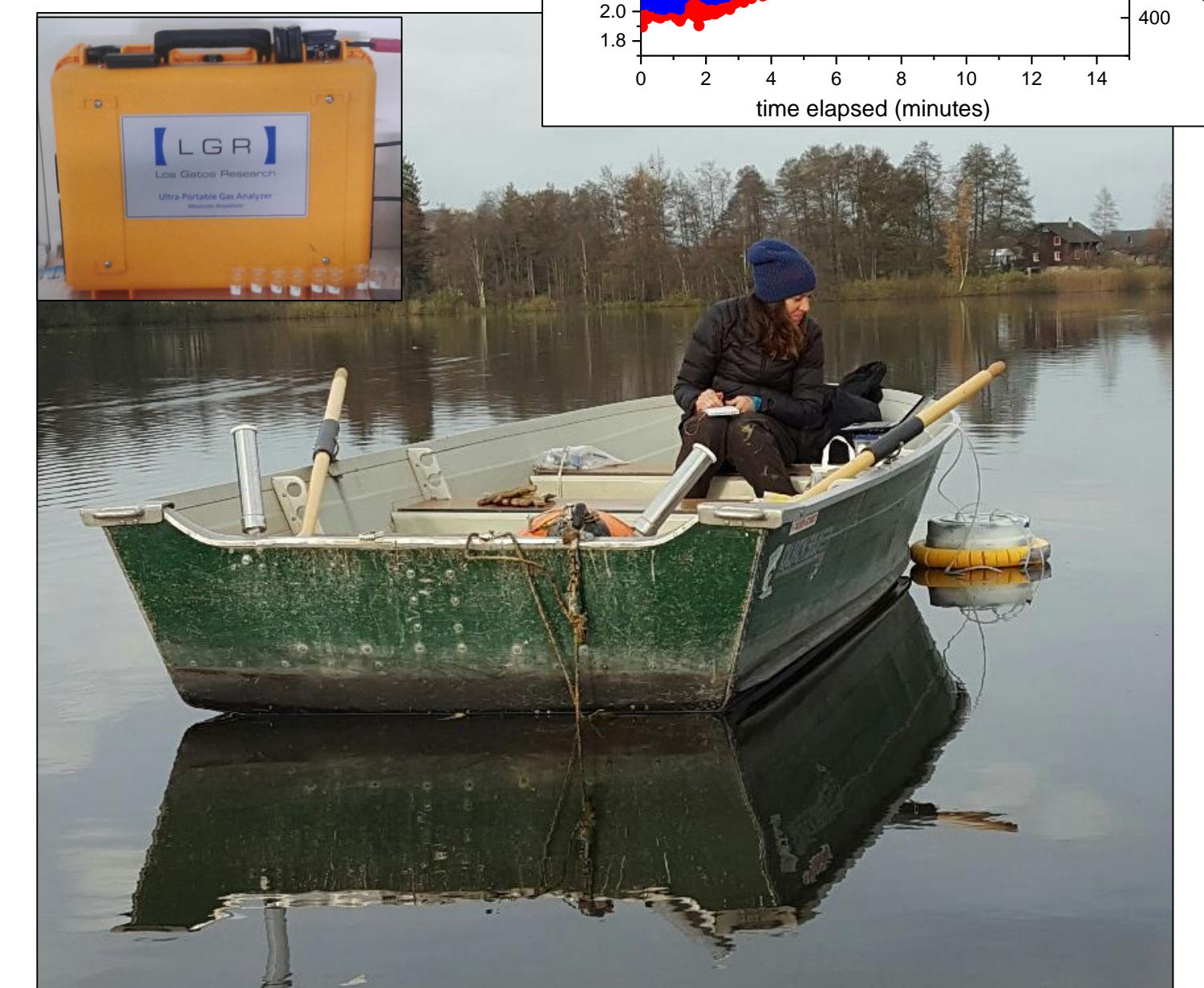
① Moorings:
T, O₂, CO₂, CH₄, ADV, ADCP



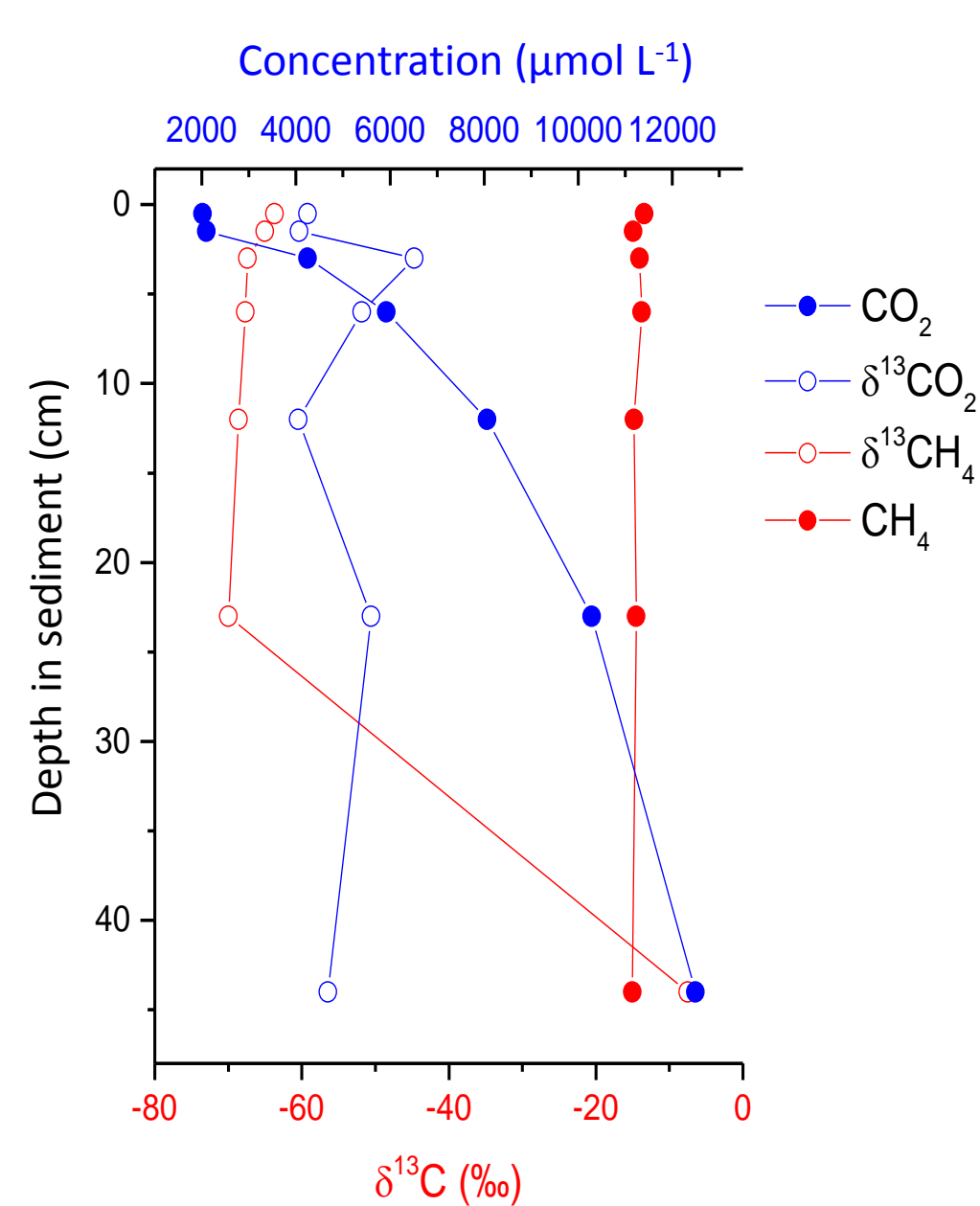
② Multiparametric probe,
water sampling



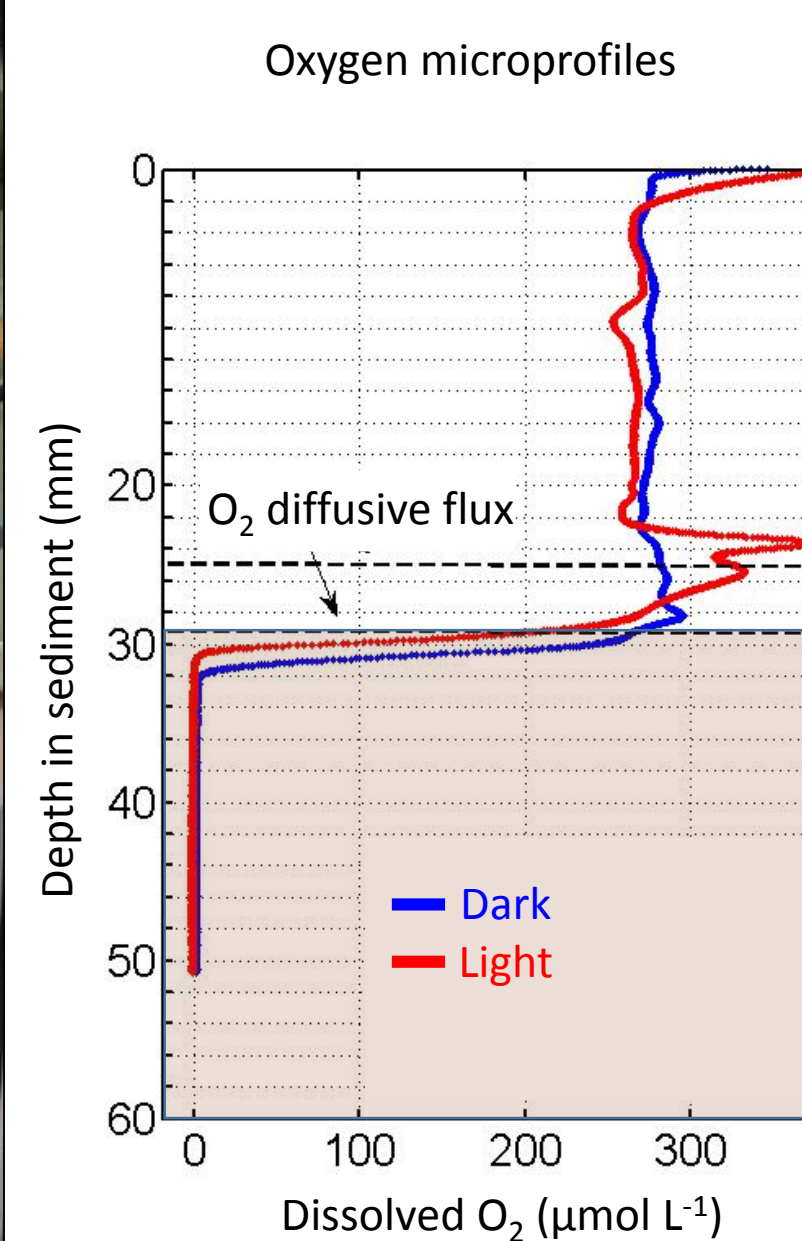
③ Gas fluxes



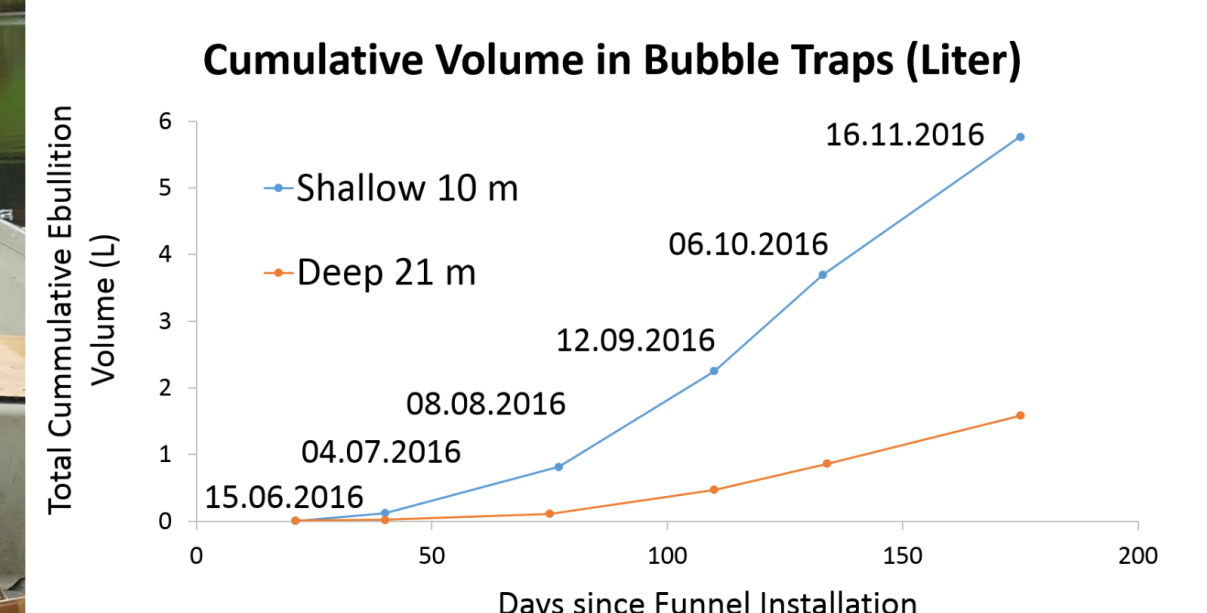
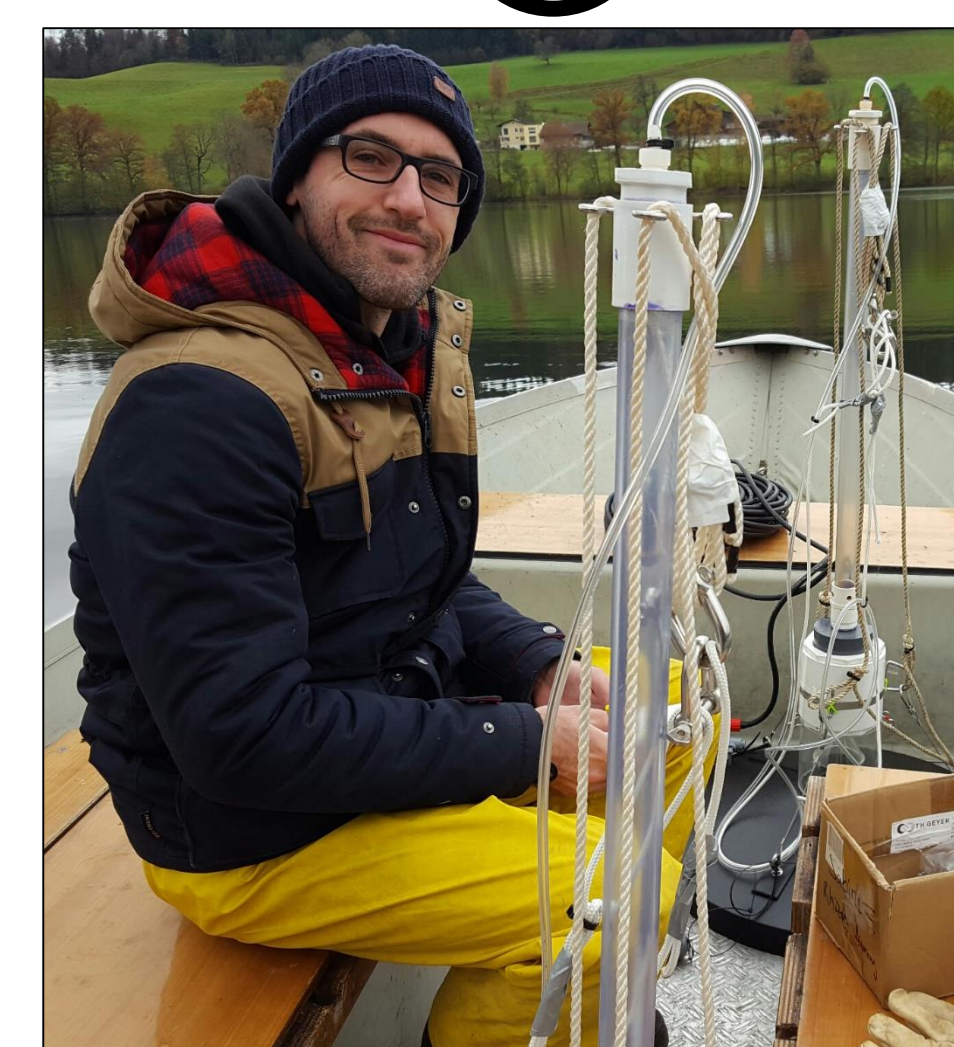
⑥ Porewater gas concentration



⑤ Benthic fluxes



④ Ebullition rates



Mass spectrometry:
composition of gas bubbles

