

Lake snow - dynamics of the settling particulate matter in Lake Geneva

Environnement Naturel, Architectural et Construit
Ingénierie de l'environnement

Projet N°13975

Catégorie de projet : SIE

Type de projet : Projet de Master SIE, Projet de Semestre SIE

Responsable : Tofield-Pasche Natacha

**Descriptif du projet**

Holographic microscopy has emerged as a tool for in situ imaging of microscopic organisms and other particles in the lacustrine environment. The submersible camera LISST-Holo2 is performant for profiling particles ranging from 25 μm to 2500 μm , and suitable to identify phytoplankton, small zooplankton, organic and inorganic particles. The aim of this project is to analyse the spatio-temporal dynamics of the settling particulate matter (lake snow) in Lake Geneva, and to investigate the influence of the Rhone River plume on the flocculation and sedimentation of settling particles.

Commentaires projet

Tasks: 1. Take regularly vertical profiles particles size, concentration and images at high resolution from the LÉXPLORE platform 2. Characterize the spatio-temporal variations of particles sizes and shapes under various seasons and meteorological conditions

Caractéristiques du projet

Enseignant Principal I
(valide le projet)

Tofield-Pasche Natacha

Documents

Présentation du projet

[Master project_Lake Snow.pdf](#)