

**Detect and predict the Rhône intrusion under LÉXPLORE platform**

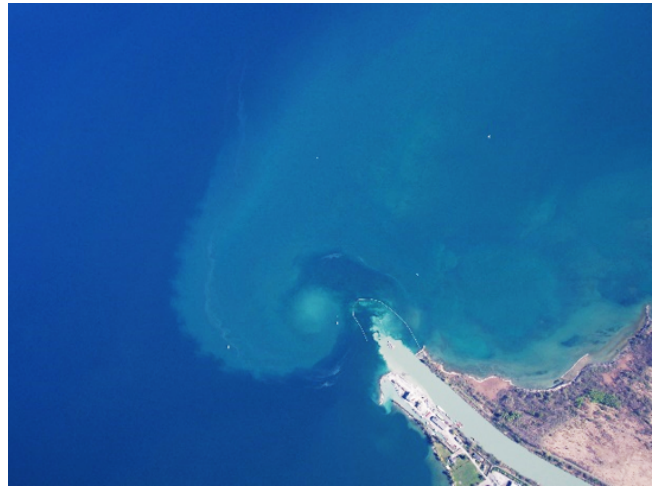
Environnement Naturel, Architectural et Construit  
Ingénierie de l'environnement

Projet N°13978

Catégorie de projet : SIE

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

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**Descriptif du projet**

The Rhône River has a great influence on Lake Geneva bringing particles and essential nutrients for the primary production. Depending on its density, the Rhône river will intrude at different depth within the lake. During the stratification period, the intrusion depth is often observed in the thermocline. This intrusion characterized by higher turbidity could be observed below the LÉXPLORE platform. Sediment traps deployment showed a higher mineral fraction in the sedimenting matter below 30 m. The goal of this project is to detect the Rhone intrusion using the available dataset on LÉXPLORE and predict its trajectory using the alplakes models.

**Commentaires projet**

1) Analyse the dynamic of the intrusion depth below LÉXPLORE, using the core dataset available since 2019 2) Use the models on [www.alplakes.eawag.ch/geneva](http://www.alplakes.eawag.ch/geneva) to predict the trajectory of the Rhône River intrusion

**Caractéristiques du projet**

Enseignant Principal I  
(valide le projet)

Tofield-Pasche Natacha

**Documents**

Présentation du projet

[Project\\_Rhône River intrusion.pdf](#)