

Fiche analytique – Mémoire de Master MUSE

A rendre au secrétariat lors de l'inscription à la soutenance du mémoire

* champs obligatoires

AUTEUR*	NOM : Gelbmann		PRENOM : Amélie
TITRE MEMOIRE*	Interpreting the impacts of eutrophication on methane cycling in lakes		
NUMERO MEMOIRE	394		
DATE SOUTENANCE	29.06.2020	Salle: Zoom	Heure: 13h
THEMATIQUE* (AFFILIATION)	Impacts climatiques		
VOLEE MUSE*	2017		
TITRE ACADEMIQUE* (par ex.: licencié en biologie)	Maitrise universitaire en Sciences de l'Environnement		
DIRECTION* / EVALUATION	Directeur de mémoire* Daniel Frank McGinnis	Co-directeur de mémoire* Tonya Del Sontro	Nom(s) du ou des juré(s)* - Bastiaan Ibelings - -
STAGE (éventuel)	Organisme d'accueil	Maître de stage	
Projet de l'ISE (éventuel) auquel le mémoire est rattaché			
Bourse (éventuelle) reçue par l'étudiant			
COLLATION*	Nb de pages* 59	Nb de figures* 17	Nb de tableaux* 7
TERRAIN D'ETUDE OU D'APPLICATION	Limnologie		
MOTS-CLES* (entre 5 et 10)	Lake, methane cycle, eutrophication, trophic states, hydrodynamics		
RESUME* (max 1500 car)			
SUMMARY* (en anglais)	<p>Freshwater ecosystems cover just a small part of the Earth's surface but they emit a significant amount of methane (CH₄). Although lakes and impoundments emit higher amount of CO₂ than other gases, ~75% of their climate impact is due to CH₄. Indeed, methane is 85 times more potent than CO₂ on a 10 years period, its residency time in the atmosphere. High level of aquatic productivity (i.e., eutrophication) is an important driver of CH₄ emission in lentic water. While previous research focused generally on lake's epilimnion, we compare distinctively CH₄ accumulation and emission drivers in the epilimnion and hypolimnion on four Alpine lakes, which are highly understudied in terms of CH₄ cycling. The studied lakes, located in the same area, have different trophic status and depth and have been sampled three times in summer. Water quality (biological and chemical factors) and physical factors have been investigated to identify CH₄ accumulation and emission drivers.</p>		
REMARQUES			