SeeWandel Climate

Modelling the consequences of climate change and neobiota for Lake Constance

Interreg Alpenrhein-Bodensee-Hochrhein

Kofinanziert von der Europäischen Union

SeeWandel-Climate Thematic Working Group "Importance of the quagga mussel"

Invitation to 3rd meeting

Dear all,

We kindly invite you to the third meeting of the SeeWandel-Climate thematic working group "Importance of the quagga mussel".

When:	Date: 19th November 2025 Time: 10:00 – 17:30
Where:	Flux building, Eawag/Empa campus, Uberland-strasse 129, 8600 Dübendorf, Switzerland Room: B01 *getting to Eawag-Duebendorf, specially marked parking spaces are available for visitors both outdoors and in the parking garage on campus (central parking meters or digital parking tickets via an app, parking fees: CHF 4 / day)*
Host:	Joana L. Santos, Alexandra Anh-Thu Weber, Piet Spaak

Programme

10:00 – 10:30	Arrival and coffee
10:30 – 10:40	Welcome (Piet Spaak)
10:40 – 11:10	Round of introductions
	Ecosystem effects of quagga mussels
11:10 – 11:30	Alexander Karatayev (Great Lakes Center): *Lake morphometry determines Dreissena ecosystem impact*
11:30 – 11:50	Lyubov Burlakova (Great Lakes Center): *Planktonic larvae of zebra and quagga mussels: seasonal dynamics and effects on freshwater communities*
11:50 – 12:05	Salomé Boudet / Bastiaan Ibelings (University of Geneva): *Quagga progress in Lake Geneva*

12:05 – 12:20	Almut Hanselmann (University of Konstanz): *Effects of Characea on Dreissena-populations*
12:20 – 12:30	Lennart Bruchhof (FFS): *Influence of mussel-feeding fish on the quagga mussel population*
12:30 – 13:00	*Discussion*: Ecosystem effects of quagga mussels in Swiss lakes – are they detectable already? What kind of data is needed?
13:00 – 14:00	Sandwich lunch
	Modelling & predicting quagga mussel population development
14:00 – 14:10	Piet Spaak / Linus Hofstetter (Eawag): *Recent quagga data from Lake Constance and Lake Geneva show a need for revision of our 2023 "Quagga prediction paper"*
14:10 – 14:25	Stefan Mirbach (kup): *Current status of the quagga mussel model within the 3D water quality model of Lake Constance*
14:25 – 14:35	Bo Gai (Eawag): *Updates on modeling quagga development and effects using 1D lake model*
14:35 – 15:00	*Discussion*: What is needed for implementing the modelling goals? Expectations for modelling (wishes/requests to modellers)?
	Quagga mussel invasion: Applied aspects
15:00 – 15:15	Thomas Müller (Eawag): *The role of the Eawag quagga competence center and insights into current activities*
15:15 – 15:30	Manuela Perthold (WiTG Tägerwilen): *PreventTecQuagga*
15:30 – 15:45	*Discussion*
15:45 – 16:15	Coffee break

SeeWandel Climate

Modelling the consequences of climate change and neobiota for Lake Constance

Interreg Alpenrhein-Bodensee-Hochrhein

Kofinanziert von der Europäischen Union

	Quagga mussel invasion: Various topics
16:15 – 16:25	David Schleheck (University of Konstanz): *Fundamental research opportunities - for example sulfide toxicity, conditioning biofilms and signalling compounds?*
16:25 – 16:40	Laura Epp (University of Konstanz): *Retrospective monitoring of biological invasions with environmental DNA: Tracing Dreissena mussels and their impact (DreissenaTrace)*
16:40 – 16:50	Alexandre Levallois (Université Savoie Mont Blanc): *The variable reproductive strategies of the quagga mussel in deep lakes*
16:50 – 17:00	Elora Chatain (INRAE): *Decoding the success of an invader: The ecophysiology behind the quagga mussel rise*
17:00 – 17:10	Théo Gonin (INRAE): *Born to stay: Growth and space monopolization of quagga mussels in Lake Geneva*
17:10 – 17:25	*Discussion*
17:25 – 17:45	General discussion & closing remarks

Dinner from 18:30 onwards for everyone who signed up.