



Excursion of the young geomorphologists (SGmS)

Neogene evolution of the Molasse Basin

12 and 13 October 2018

The Swiss Molasse Basin forms the subsurface of the densely populated Swiss Mittelland. The Molasse represents the Oligocene to mid Miocene foreland basin of the Alps that was subsequently uplifted. The Molasse wedge propagated the tectonic stresses from the Alps towards the Jura, where they caused a folding of the Mesozoic sediments. The Molasse basin itself was uplifted some 900 m by this wedge process. The drainage network in the Molasse Basin was strongly affected by the uplift, and with the drainage network the ability of sediment transport. The perturbations in the Molasse Basin changed the river network at a continental scale.

We will organize a two day excursion that visits the Uetliberg, the landmark mountain of Zürich. We will discuss the Neogene to Quaternary history of the region on a hike to Uetliberg. The top of Uetliberg offers not only a view of the geomorphology of the region but also remnants of the fluvial history of the Upper Sweetwater Molasse. The invisible erosional processes that accompany the uplift and the evolution of the river network (e.g. χ -map) will be an additional focus during the excursion.

Program: Friday, 12.10.2018

Meeting 3.10 pm at the Meeting Point Zürich HB

Visit of the earth science museum focusTerra at ETH Zürich (including earthquake simulator)

City tour and dinner in Zürich

Stay at a hostel in Zürich

Program: Saturday, 13.10.2018

Hike up to Uetliberg

Hike along the Planetenweg to Fallätschen

Topics of the day: Geomorphology, Molasse, Deckenschotter, erosion, uplift

Return to Zürich HB ca. 5 pm

Cost

Cost:	The participation is free of charge for young geomorphologists members of the SGmS 30.- CHF for non-SGmS members
Included:	Accommodation (incl. breakfast)
Not included:	Lunch for the excursion day Dinner and drinks Travel to Zürich

Registration

Register until 15th August via Email providing the following information:

- Name
- Swiss pass for train GA/halftax
- Do you need an accommodation for the night in Zürich: Yes / No
- Member of Swiss Youth Hostels: Yes / No
- Member of SGmS: Yes / No

Email the information to: julia.krawielicki@erdw.ethz.ch

Further information

The excursion is limited to 15 persons max. The registration is considered as soon as the application has been received. Non-SGmS members are also welcome as long as they become member in 2019.

Organisers

Julia Krawielicki, Elisa Giaccone, Sascha Winterberg

Kindly supported by:

