

PhD Seminar IDC Alpine Biology and Global Change WS 2023/24

14-15 November 2023, HS A Bot

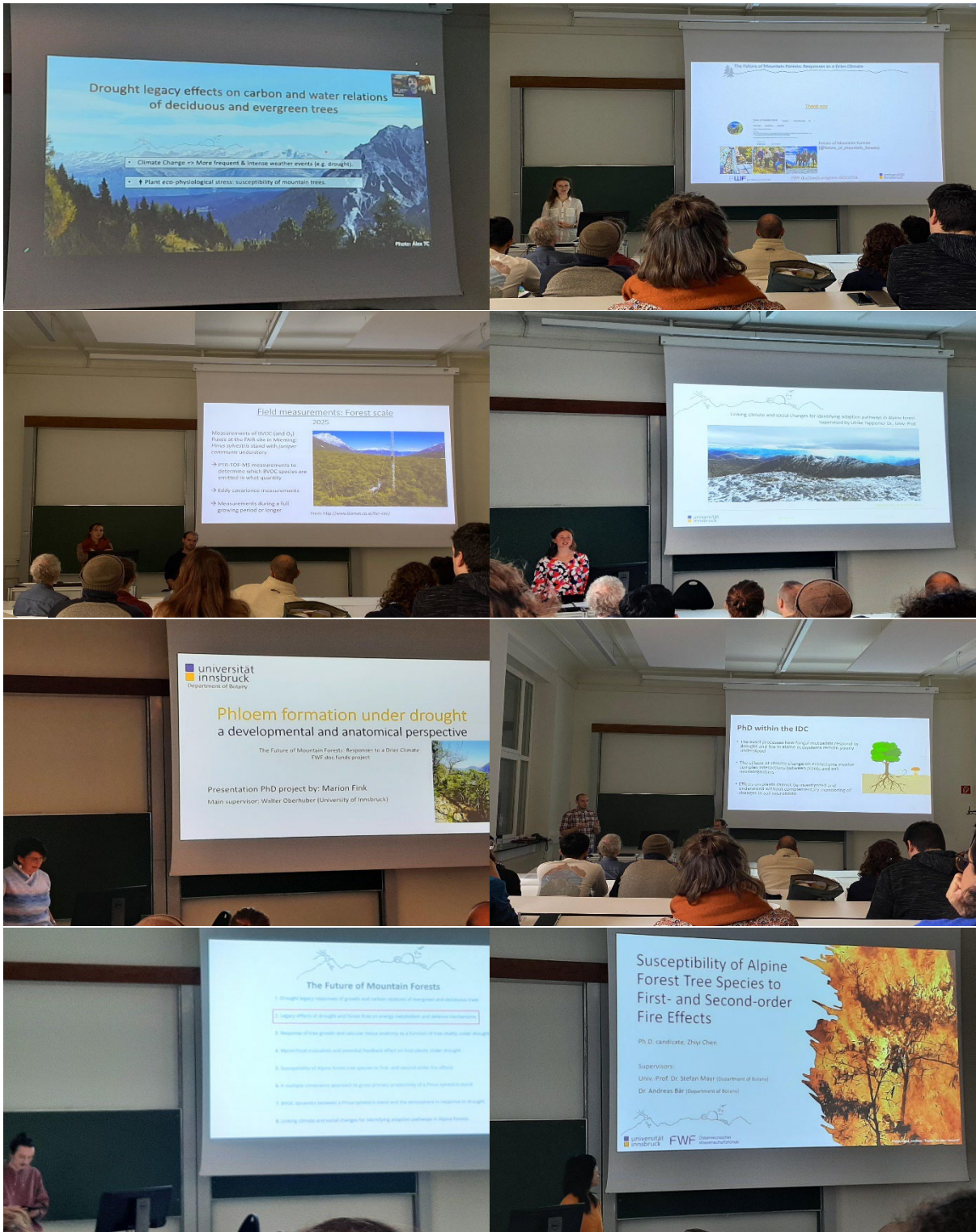
Report:

During these two days, the IDC Alpine Biology and Global Change seminar concluded successfully at the Institut für Botanik. Eight Ph.D. students, supported by doc.fund, presented their application talks and shared visions with fellow participants. The Scientist Board and the Student Board are currently evaluating their eligibility for IDC membership.

Workshops on AI in Ecology, Science Communication and the Role of Scientists in Society, and Equality in Science across Gender, Nations and Financial Opportunities provided a platform for Ph.D. students in the IDC to engage in discussions, exchange ideas, and contribute valuable insights to the IDC seminar's scope. Additionally, productive meetings of the Scientist Board and the Student Board were held, focusing on plans for the upcoming IDC seminar next year.

(Text: Zhiyi Chen)





Pictures: Zhiyi, Anna and Stefan

Program:

Tuesday 14 November, 10:00 – 18:00, HS A Bot	
Time	Presenter
10:00-10:05	Welcome and Introduction
10:05-11:25	Alex Tunas Corzon: Drought legacy effects on carbon and water relations of deciduous and evergreen trees Moritz Stegner: Legacy effects of drought on energy metabolism of mountain forest trees (ATs) Marion Fink: Phloem formation under drought. A developmental and anatomical perspective Markus Neurauter: Mycorrhizal mutualists and potential feedback effect on host plants under drought
11:25-11:40	Break
11:40-13:00	Zhiyi Chen: Susceptibility of Alpine forest tree species to first- and second-order fire effects Anna de Vries: A multiple constraints approach to gross primary productivity of a <i>Pinus sylvestris</i> stand (ATs) Judith Schmack: BVOC dynamics between a <i>Pinus sylvestris</i> stand and the atmosphere in response to drought Laura Barraclough: Linking climate and social changes for identifying adaptation pathways in Alpine forests
13:00-13:50	Lunch Break
13:50-14:50	Vinayaka G. Hegde: The evolution of <i>Lymnaea stagnalis</i> snails under heatwaves and variation in resource availability (ATs) Georgios Katsianis: Evolutionary potential in responses to periodic heatwaves in the freshwater snail <i>Lymnaea stagnali</i> Vitali Razumov: Eco-evolutionary dynamics of planktonic grazers in response to anthropogenic environmental change in peri-Alpine lakes
14:50-16:10	Ambre Placide: Phenotypic plasticity in alpine copepods: Acclimatization to environmental stress on a spatiotemporal scale Maria Chiara Vulcano: Fatty acids in invertebrates of alpine glacial streams: the role of phylogeny and environmental conditions (STs) Lisa Obwegs: Responses of wild bee communities to an elevational and land-use intensity gradient Friederike Barkmann: Correlation of remote sensing vegetation indices with field data Andreas Kollert: Concept for coupling high resolution snow modeling with species distribution modeling Maria Ralser: Unravelling biochemical composition of leaf apoplastic ice crystals Silvia Lembo: Novel effects of above - and belowground associations on alpine plants under lower air pressure Fabrizio Protti: Ecosystem fluxes and allocation of fresh carbon in a long-term warmed subarctic grassland
16:10-16:30	Break
16:30-18:00	Workshops (in several rooms)
18:15-	Evening Event Botanical Garden (Greenhouses)
Wednesday 15 November, 08:30 – 15:00, HS A Bot	

Time	Presenter
08:30-09:00	Workshop reports
09:00-10:00 (FTs)	Elena Tello Garcia: Mountain grasslands under drought: my PhD journey Lisa Capponi: Grassland responses to intense droughts in a future climate Timo Knüver: Drought severity effects on carbon balance in Norway spruce seedlings Valentin Heimer: Cryptic evolution and diversification of <i>Luzula sect. Luzula</i> (Juncaceae) in the grasslands of the Eastern Alps
10:00-10:15	Break
10:15-11:25 (STs)	Clemeney Maylandt: Evolution and range formation of the disjunctly distributed European members of <i>Astragalus</i> section <i>Caprini</i> Lesley Huyman: Phylogenetic renewals in the subgenus <i>Phlegmacium</i> in SA - The importance of holotypes for the real reflection of diversity Špela Pungaršek: Polyploidy in the Cypress Spurge (<i>Euphorbia cyparissias</i>) and its influence on the morphology and distribution of cytotypes Teresa Zeni: Distribution of polyploid plants in the Eastern Alps Lucia Laorden Camacho: Effects along a gradient of shrub encroachment in sub-alpine grasslands Lumnesh Joseph: Impact of drought intensity on the phenology of grassland species Sebastiano Zanini: Inclusive research cooperation: reporting on a Global South Perspective
11:25-11:30	Short Break
11:30-12:30 (FTs)	Harald Crepaz: Providing and Using Open Data in Ecological Research Rubén Morón Asensio: Monitoring intracellular synthesis and release of microcystins (MC) in bloom forming cyanobacteria <i>Microcystis aeruginosa</i> Katharina Ramskogler: Long-term (1890-2020) quantitative analysis of erosion dynamics and land cover changes of a LIA lateral moraine section using historical terrestrial images and aerial orthophoto Lorenz Hänchen: Past, present and future temporal characteristics of the rainy season in the Rio Santa basin, Peruvian Andes
12:30-12:45	Alumni talk (tbd)
12:45-13:30	Lunch Break
13:30-13:50	Xin Yu: The International Max Planck Research School for Global Biogeochemical Cycles – a student's perspective
13:50-14:30	IDC Updates and General Discussion
14:30-15:00	Meetings of the Scientist Board and the Student Board

AT ... Application Talk (15+5 min), FT ... Full Talk (10+5 min), ST ... Short Talk (5+5 min)