

Final Report

Name of BritInn Fellow: Kadmiel Maseyk

Home Department: School of Environment, Earth and Ecosystem Sciences

Home University: The Open University, Milton Keynes

Guest Department: Ökologie

Guest University: University of Innsbruck

From: 3/2/2019

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Title of the Research Project: Novel tracers of the terrestrial carbon cycle and the role of biodiversity

Report about visit and future plans (max. 200 words, English):

My visit to the University of Innsbruck, hosted by Assoc. Prof. Georg Wohlfahrt was a very productive and enjoyable visit, and a number of lines of research and collaboration were advanced in this time.

We started working on a joint analysis of a dataset of KM, of reflectance spectra from a forest at an elevated CO₂ experiment, applying GW's expertise to inverse model canopy characteristics of the forest. The initial results will be presented at an upcoming workshop, and the completed analysis will be included in a publication.

We discussed plans for comparative studies involving corresponding measurements of field spectroscopy and reflectance between our two grassland ecosystem sites this season. In this aspect, KM benefited greatly from the insight from GW regarding measurements of grassland structural properties. KM will also scope the development of a PhD student project involving collaboration with GW to extend this work, and we are looking into funding options to support a larger project.

Another initiative that made a concrete start during the visit is the joint organisation of a workshop, to be held in November at Obergurgl. Dates have been finalised, first announcement posted and planning started on the programme. We also sketched out options for developing an ESF Innovative Training Network in carbon cycle science and policy that will be explored further this year. Finally, I gave a well attended seminar to the department, and had a very enjoyable evening with the group of GW, hiking up in the mountain to the Rumer Alm hut for dinner, followed by sledging back down afterwards.



Preparing to sledge down the mountain after dinner at the Rumer Alm hut.

Picture Credits: Georg Wohlfahrt