

German Centre for Integrative **Biodiversity Research**

sDiv Workshop Summary "sUMMITDiv" 10. - 20.11.2014

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Focal areas of discussion and workshop accomplishments

The first week of the workshop (including 15 participants) was centered around the following three main topics/issues:

- Introduction and 1) information on the various datasets that are available and merged within the sUMMITDiv consortium or should be added to the database
- Introduction and 2) discussions of ideas and possible studies/analyses to be done within this data framework, including:
- presentation of previous similar projects/results
- presentation/discussion of preliminary findings
- presentation of innovative research question and analysis ideas that match the data framework
- determination of 5 research fields/manuscripts to develop further over the coming months
- discussion on hypotheses, methods, format, statistical details etc. of the above topics
- discussion on further funding proposals and possible funding instruments that could be accessed

- Discussion on and organization of formal issues, e.g.
- Data ownership and coauthorship rules
- Database organization and data access; data cleaning (species lists by taxonomy experts)
- Inclusion of members or the consortium (data owners) that were not present at workshop
- Inclusion of new members to the consortium (e.g. researchers providing data, methods, analyses, work time)
- Access to further climate and trait data
- Further meeting (Oct. 2015)

During the second week of the workshop (including participants), most time was spent working on the five main topics to fine-tune the hypotheses, analysis plans, preliminary analyses, data needs, time lines etc., switching back and forth between small break-out groups and discussions within the whole group.

Content of presentations

- General introduction (how 1) this project developed, ideas and goals; Sonja Wipf)
- Introduction to the various 2) datasets: pan-European summit flora (Aino Kulonen), GLORIA



(Manu Winkler and Hari Pauli), Climate Data (Signe Normand), Plant traits (Christian Rixen)

- Thoughts and preliminary results on planned "Core syntheses" as detailed in proposal: Aino Kulonen, John-Arvid Grytnes; Gerald Jurasinsky; Manuel Steinbauer
- 4) Introduction and suggestions for alternative studies and/or other use of data (short input presentations of each participant)
- 5) Workshop seminar by Sonja Wipf: Faster, higher, more? - Vegetation change in highalpine regions over the past century

Planned output

During the first week of the workshop, we discussed and drafted five topical fields for manuscripts that we plan to develop over the next year. During the second week, we further developed the content of these manuscripts and the plan for the necessary analyses, undertook preliminary analyses and data screening, and started to assemble necessary further datasets. The five topics (and lead authors) are:

- Floristic change on summits over the past century (Wipf, Steinbauer et al)
- Homogenization /heterogenization of floristic composition on summits across Europe (Jurasinski et al)

- Patterns and drivers of loss vs. persistence of species on summits (Kulonen et al)
- (Dis)equilibrium between summit flora community response and warming (Grytnes, Normand et al)
- Functional community change on summits (Haider, Rixen et al)

Moreover, we discussed potential proposals for funding research proposals to promote the use of our new data framework and of our expertise on long-term ecological research within this network. Although plans are still vague, the likelihood that 2 different funding proposals will emerge from our group during 2015 is high.

Balance between work on outputs, general brainstorming/ information exchange and participants presentations in %

Work on outputs: ~ 60% Input presentations (points 3, 4 above) as a form of "prescribed brainstorming": ~15% general Other brainstorming/information exchange: ~ 25% Presentations beyond "brainstorming": ~5-10% (points 1, 2, 5)

Next steps

Finalizing database (species data, climate data, trait data) -> nearly complete



- Information/integration of collaborators and data contributors (beyond those present in Leipzig) on recent activities (info mail& survey, establishing codes of conduct for co-authorship & funding proposals, data use & ownership), formation of steering committee -> documents under consultation by whole network
- Proceed analysis work and manuscript development on first three topics as planned during workshop -> started
- First manuscript draft out for comments in early 2015
- Develop 2-3 further manuscripts and 1-2 funding proposals during 2015 within our group
- 1(.5) day workshop after the "mountain of our future earth" conference in Perth (Scotland), 4.-8.10.2015 in planning phase

Further cooperation

In the coming weeks we will formalize the cooperation within the consortium members that own the dataset used under the sUMMITDiv acronym. Each team of data contributors owns their data and have given the OK to use it in a pan-European context, thus forming a relatively large and varied international group. We are in the process of forming a steering committee, have issued

for discussion suggestions for "code of conduct" for data use and co-authorships, and keep the group informed via regular news emails.

Within the constructive, pleasant and motivating atmosphere of our workshop, several close ties between participants research interest were discussed and identified, which will lead to fruitful collaborations also in the longer term.

The participation of Anne Björkmann (sTundra postdoc) moreover increased the ties of ours and the ShrubHub and ITEX networks, which also deal with plants and climate change in cold biomes.

General working atmosphere and feedback on sDiv support

The participants all agreed that our workshop was a success. We assembled a unique dataset, created a great diversity of ideas how to use it, and distilled preliminary analyses, drafts and work plans without aettina immersed into technical and administrative detail discussions. Main factors that facilitated this success were the high motivation and commitment of the workshop participants, the provision of a brilliant child care service and the impeccable organization and background work of the sDiv team. Thank you very much!



Participants list

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