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Publication guideline

Global Change Experimental Facility

In general and in its principles, this guideline adheres to the “*Proposals for safeguarding good scientific practice*” by the Deutsche Forschungsgemeinschaft (German Research Foundation - DFG) (http://www.dfg.de/download/pdf/dfg_im_profil/reden_stellungnahmen/download/empfehlung_wiss_praxis_1310.pdf). Thus these proposals are fully valid for GCEF-related research and publication activities. In addition to this general frame, the following points given in this document have to be seen as GCEF project-related specifications.

1. Principles of Authorship

1.1 Individual authorship

In order to be qualified for authorship following criteria must be fulfilled:

- (a) Each author should have participated sufficiently in the work represented by the article to take public responsibility for its content

(b) Each co-author must have been involved to tree working steps as follows:

- conception or design of the work OR acquisition of data OR analysis and interpretation of the data, AND
- drafting the article or revising it for critically important content; AND
- final approval of the version to be published

Participation solely to the collection of data is insufficient by itself, and those persons who have contributed at this level or by intellectual input without however fulfilling the rest of the requirements to justify authorship may be acknowledged and their contribution described.

1.2 Co-authorship and acknowledgment of members of the GCEF coordination team at the UFZ

Basic data e.g. on site conditions, site management, land use, climate and microclimate on experimental plots are available for all contributing projects. The use of these data should be acknowledged in the paper. If these data substantially contribute to the main conclusion of the paper, a co-authorship has to be offered to the GCEF coordination team, which has to decide about the co-authorship of one or more of its members in the best possible time delay.

1.3 Group authorships

Group authorships are appropriated for some publications. This applies when the intellectual work underpinning a publication has been carried out by a group in which no one can be identified as having substantially greater responsibility for the content than others. In such cases the authorship will be presented by the collective title - The GCEF Consortium - and the article should carry a footnote of the names of the people (and their institutions) represented by the corporate title. In some situations one or more authors may take responsibility for drafting the paper but all group members qualify as

members; in this case, this should be recognised using the by-line 'Jane Doe and the GCEF Consortium'. Group authorship may also be appropriate for publications where one or more authors take responsibility for a group, in which case the other group members are not authors but may be listed in the Acknowledgement (the by-line would read 'Jane Doe for the GCEF Consortium').

2. Determining authorship

Tentative decisions on authorship should be made as soon as possible, and in written form. Any difficulties or disagreements will be resolved by the GCEF coordination team.

3. Acknowledgment of original data suppliers

In case an article is using previously unpublished data, the credit of co-authorship has to be offered the original data supplier(s) if these data are relevant for the main message and tables or figures of the publication. In the case the data supplier refuses co-authorship or if such data are not relevant for the main findings of the paper, he/she has to be mentioned in the acknowledgment or as “personal communication” in the text. Co-authors are expected to actively contribute to manuscripts, but are free to decline co-authorship. The credit to the data supplier has to be discussed before writing a collaborative paper.

If data have been published before and are relevant for the main findings of the paper, co-authorship has to be offered to one member or participant of the data-providing subproject, namely the most important one for this data contribution, and to mention the names of the other members and participants of this study in the acknowledgments.

If the original data have been used repeatedly in similar ways in other publications, and are not relevant for the main message, tables or figures, an appropriate publication should be cited adequately and the names of the members and participants of the data-providing project should be mentioned in the acknowledgments.

In case of primary publication of data, the correct designation of the project (Global Change Experimental Facility) has to be given in the key words. In case of the use of already published data, the origin of data has to be given in the text in the Methods section.

4. Quality assurance

Ensuring quality assurance is essential to the good reputation of the GCEF-project. However, it is not intended to impose a burdensome process on researchers using the GCEF-infrastructure to publishing articles and presenting results at conferences and meetings; timely dissemination is also important. It will not, therefore, be necessary for GCEF-researchers to have publications and abstracts formally approved by the GCEF coordination team but accepted publications should be sent to the coordinator.

Authors are encouraged to share drafts and articles with their GCEF colleagues for comment and feedback, or simply as a way of sharing their work. Published articles and abstracts will be posted on the GCEF website as a news item.

5. Acknowledgement to the GCEF implementation and maintaining persons

All publications basing on data collected within the GCEF infrastructure should refer to the design paper (Schädler et al., 2019):

- Schädler, M., Buscot, F., Klotz, S., Reitz, T., Durka, W., Bumberger, J., Merbach, I., Michalski, S.G., Kirsch, K., Remmler, P., Schulz, E., & Auge, H. (2019): Investigating the consequences of climate change under different land-use regimes - a novel experimental infrastructure. *Ecosphere* 10:e02635

Each article that mainly relies on data produced by using the GCEF platform must content following sentence in its acknowledgement paragraph: *"We appreciate the Helmholtz Association, the Federal Ministry of Education and Research, the State Ministry of Science and Economy of Saxony-Anhalt and the State Ministry for Higher*

Education, Research and the Arts Saxony to fund the Global Change Experimental Facility (GCEF) project. We thank the staff of the Bad Lauchstädt Experimental Research Station (especially Ines Merbach and Konrad Kirsch) and Martin Schädler for their work in maintaining the plots and infrastructures of the Global Change Experimental Facility (GCEF), and Harald Auge, François Buscot, Stefan Klotz, Thomas Reitz and Martin Schädler for their role in setting up the GCEF.”