

# Using and managing BEFdata platforms

Workshop at the GFÖ 2012, Lüneburg

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# Features BEFdata

- Upload data at primary data level from Excel 2003 workbook
- Manage naming conventions
- Manage data use through paper proposals

## Welcome to the Data portal of the BEF-China project.

The data portal presents the data aggregated within the BEF-China project and makes it available to researchers as well as the interested public. For more information on the project itself, go here: [www.bef-china.de](http://www.bef-china.de)

The Chinese-European DFG Research Unit "BEF China" (FOR 891) has started a new forest Biodiversity and Ecosystem Functioning (BEF) experiment in subtropical forests in China. The objective of this experiment is to analyze the influence of tree and shrub species diversity on ecosystem functioning and services in one of the most prominent diversity hotspots in the northern hemisphere. The studies are carried out in the border region between the two Chinese provinces Jiangxi and Zhejiang (Xingangshan and Gutianshan). A range of biodiversity and ecosystem variables will be measured to assess community dynamics and its relation to primary productivity, carbon and nitrogen storage, nutrient cycling, and prevention of soil erosion. In parallel, the experimental approach is combined with comparative studies in existing forests.

List of data objects

List of paper proposals

Entry to administrative backend

## Data sets

Abundance of Tree and Shrub species in the Comparative Study Plots (CSP) 

Additional study plots for studying genetic diversity of *Castanopsis eyrei* 

Additional Target trees for C N measurements, SP 5 

Additional trees planted in the main experiment at the edge of the treatment plots 

BEF China Experimental Sites Google presentation 

Biomass of four tree species (*Castanea henryi*, *Quercus serrata*, *Schima suberba* and *Elaeocarpus decipiens*) as saplings in the Pilot Experiment 

Biomass of herb layer plants in the CSPs, separated into functional groups 

Blank paper proposal with comments 

Carbon (C) and Nitrogen (N) Concentration (Root, Stem, Twig, Leaf) of 8 target species in the CSPs 

Checking the raw data sheet for naming conventions, an R script 

Climate measurements in the Gutianshan Nature Reserve 

Climate measurements in the Main Experiment 

 Create new Dataset

 List Datagroups

### Keywords

abundance acidity actinomycetes  
additional trees aeromorphic organic  
layer age class air temperature Al  
allelic richness allometries altitude  
AMF ancestry arbuscular mycorrhizal  
fungi aspect bacteria barcode reader  
basal area basal diameter base  
saturation beetles BEF China BEF  
China PIs BEF China projects BEF  
China Projects BEF conference 2011  
BEF summerschool 2011 below ground  
bifurcation point biodiversity  
biodiversity biomass biomass

## Biomass of herb layer plants in the CSPs, separated into functional groups

### USAGE RIGHTS

Data use is restricted to subproject members only. Please contact the PI and ask for usage permission.

### DATASET ABSTRACT

Biomass is a proxy for assessing herb layer productivity. In contrast to most traits it is often practicable and therefore frequently measured. Biomass is also a key variable for understanding community structure and dynamics. This dataset includes all plant species harvested in the central plot. The harvested biomass was separated into functional groups according to their life forms. The data were collected in 2008.

## Metadata

### DATASET DESIGN

The CSPs were established in May - June 2008 in the Gutianshan Nature Reserve as well as outside the Nature Reserve. The CSPs have a size of 30 x 30 metres and are exposed to the north. The central plot hold a size of 10 x 10 metres and is situated in the centre. Four 1 x 1 metres plots were systematically chosen positioned outwards the corners of the central plot. The herblayer, i.e. plants below one metre in height, was harvested completely within those 1 m<sup>2</sup> plots. The harvest only included aboveground biomass.

### SPATIAL EXTENT

- Download (state: finished)
- Regenerate Download
- Download Eml
- Add to Cart
- Edit Metadata
- Edit Files
- Approve Data Columns
- Delete

#### Last update

2012-08-17 12:57

#### Comment

Metadata \*\*\* of \*\*\*

#### Contact persons



Alexandra Erfmeier



# Primary data level

Data columns available in the raw data part of this dataset	
<b>location</b> locationBEF research plot name <i>Data group: BEF research plot name</i>	<b>date</b> dateDate time information <i>Data group: Date time information</i>
<b>Values</b> 1 10 11 12 13	<b>Values</b> 2008-05-15T00:00:00+00:00 2008-05-16T00:00:00+00:00 2008-05-27T00:00:00+00:00

Primary data

- First five unique entries
- Data columns are nested in data groups

# Primary data level

biodiversity ecosystem functioning

**befdatachina**

Home Projects Staff Data Papers Cart Admin

## Datagroup: BEF research plot name

TYPE

category

DESCRIPTION

Reasearch plots o

**Datasets**

- Additional Target trees for C N measurements, SP 5
- Additional study plots for studying genetic diversity of *Castanopsis eyrei*
- Biomass of herb layer plants in the CSPs, separated into functional groups
- CNS and pH analyses of soils: depth increments of 27 Comparative Study Plot
- CNS and pH analyses of soils: horizonswise from soil profiles of 27 Comparative Study Plot
- CSP Soil profile description: general site information, surface characteristics

Categories

Short	Long	Description
1	CSP01	Comparative Study Plot 01
10	CSP10	Comparative Study Plot 10
11	CSP11	Comparative Study Plot 11
12	CSP12	Comparative Study Plot 12
13	CSP13	Comparative Study Plot 13
14	CSP14	Comparative Study Plot 14
15	CSP15	Comparative Study Plot 15
16	CSP16	Comparative Study Plot 16
17	CSP17	Comparative Study Plot 17
18	CSP18	Comparative Study Plot 18

# Primary data level

biodiversity ecosystem functioning  
**bef data china**

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**Category: 10**

LONG

CSP10

DESCRIPTION

**Occurrences**

ID	Import Value	Columnheader	Dataset
4185865	10	CSP	Additional Target trees for C N measurements, SP 5
5124639	10	location	Biomass of herb layer plants in the CSPs, separated into functional groups
5124640	10	location	Biomass of herb layer plants in the CSPs, separated into functional groups
5124641	10	location	Biomass of herb layer plants in the CSPs, separated into functional groups

Download Sheetcells as CSV

Upload Sheetcells as CSV

# Manage naming conventions

- Online  
Data group and Category page
- Offline  
Reworking and replacing workbooks

# Manage naming conventions

biodiversity ecosystem functioning

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## Datagroup: BEF research plot name

**TYPE**  
category

**DESCRIPTION**  
Research plots of the Biodiversity - Ecosystem functioning experiment (BEF-China). There are three

Merge names

- Download Categories as CSV
- Upload Categories as CSV
- List Datagroups

biodiversity ecosystem functioning

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Home Projects Staff Data Papers Cart Admin Profile Logout

## Category: 10

**LONG**  
CSP10

**DESCRIPTION**

Split names

- Download Sheetcells as CSV
- Upload Sheetcells as CSV
- List Datagroups

# Manage naming conventions

The screenshot shows the BEFdatachina website interface. At the top, there is a navigation bar with links for Home, Projects, Staff, Data, Papers, Cart, and Admin. On the right side of the header are Profile and Logout links. Below the header, the page title is "Data sets". Under this title, there are two items listed: "Abundance of Tree and Shrub species in the Comparative Study Plots (CSP)" and "Additional study plots for studying genetic diversity of Castanopsis eyrei". To the right of these items is a sidebar with two options: "Create new Dataset" (which is circled in red) and "List Datagroups".

## BEFdata workbook

The screenshot shows the BEFdatachina website interface. At the top, there is a navigation bar with links for Home, Projects, Staff, Data, Papers, Cart, and Admin. On the right side of the header are Profile and Logout links. Below the header, the page title is "Edit files of Biomass of herb layer plants in the CSPs, separated into functional groups". Under this title, there is a sub-section titled "Exchange original data workbook". Within this section, there is a file input field labeled "Choose File" with the placeholder "no file selected" and a green "Data set upload" button. This entire input area is circled in red.

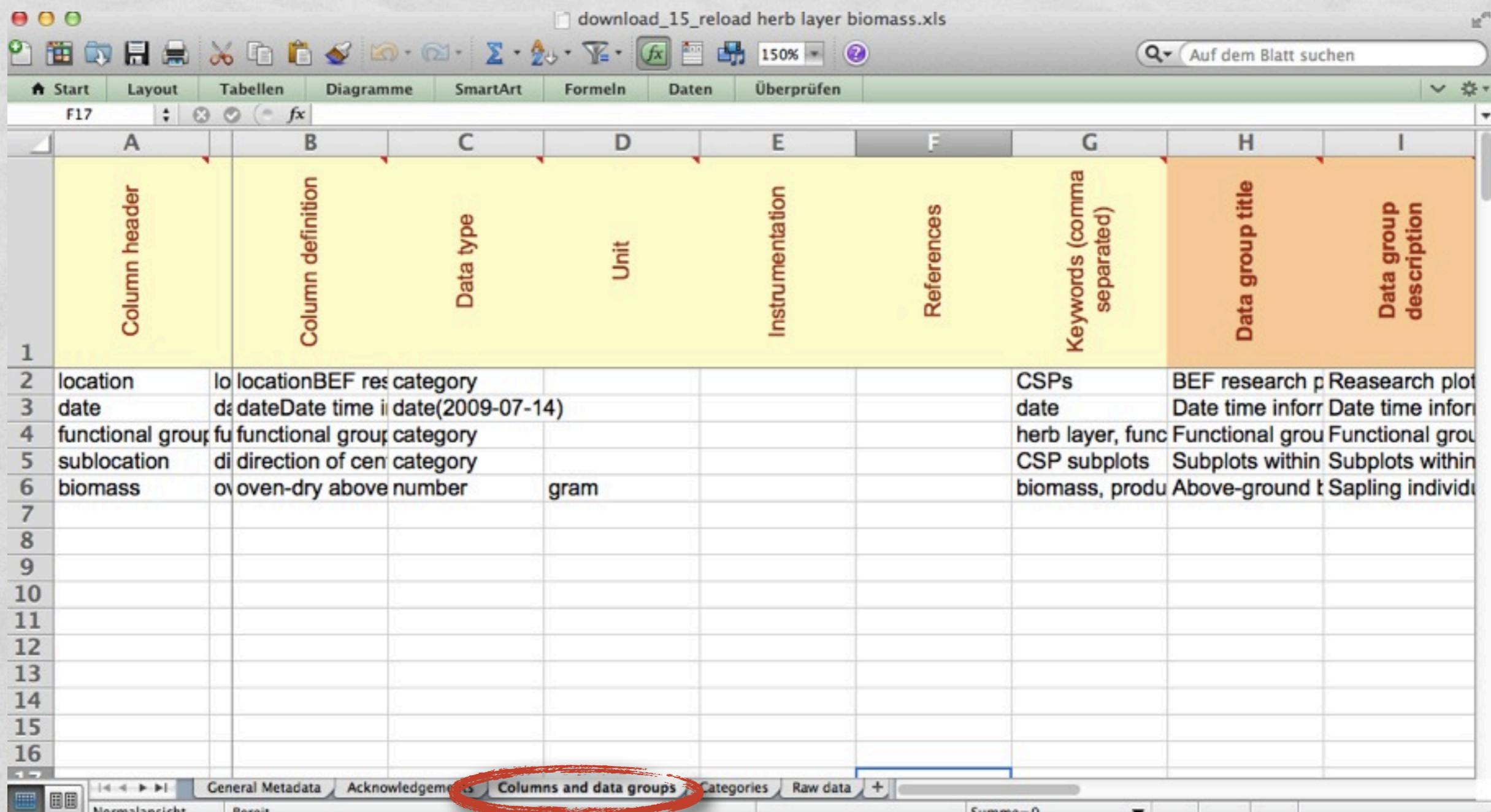
The screenshot shows the BEFdatachina website interface. At the top, there is a navigation bar with links for Home, Projects, Staff, Data, Papers, Cart, and Admin. On the right side of the header are Profile and Logout links. Below the header, the page title is "Biomass of herb layer plants in the CSPs, separated into functional groups". To the right of the title is a sidebar with two options: "Download (state: finished)" (which is circled in red) and "Regenerate Download".

# Manage naming conventions

The screenshot shows a Microsoft Excel spreadsheet titled "download\_15\_reload herb layer biomass.xlsx". The ribbon menu is visible at the top, with tabs for Start, Layout, Tabellen, Diagramme, SmartArt, Formeln, Daten, and Überprüfen. The current sheet is labeled "C15" and contains the text "dicotyl herbs". The table structure is as follows:

	A	B	C	D	E	F
1	location	date	functional group	sublocation	biomass	
2		1	2008-05-15	woody	NE_c	4.827
3		1	2008-05-15	woody	NW_c	0.202000000000005
4		1	2008-05-15	woody	SE_c	1.035
5		1	2008-05-15	woody	SW_c	2.561
6		1	2008-05-15	climber	NE_c	0
7		1	2008-05-15	climber	NW_c	4.539
8		1	2008-05-15	climber	SE_c	1.148
9		1	2008-05-15	climber	SW_c	0.078
10		1	2008-05-15	monocotyl herbs	NE_c	2.295
11		1	2008-05-15	monocotyl herbs	NW_c	0
12		1	2008-05-15	monocotyl herbs	SE_c	0
13		1	2008-05-15	monocotyl herbs	SW_c	0
14		1	2008-05-15	dicotyl herbs	NE_c	0
15		1	2008-05-15	dicotyl herbs	NW_c	10.686
16		1	2008-05-15	dicotyl herbs	SE_c	1.719
17		1	2008-05-15	dicotyl herbs	SW_c	0
18		1	2008-05-15	fern	NE_c	0
19		1	2008-05-15	fern	NW_c	14.327
20		1	2008-05-15	fern	SE_c	0
21		1	2008-05-15	fern	SW_c	0
22		1	2008-05-15	graminaea	NE_c	0
23		1	2008-05-15	graminaea	NW_c	1.545
24		1	2008-05-15	graminaea	SE_c	0
25		1	2008-05-15	graminaea	SW_c	0
26		1	2008-05-15	legume	NE_c	0
27		1	2008-05-15	legume	NW_c	0
28		1	2008-05-15	legume	SE_c	0
29		1	2008-05-15	legume	SW_c	0
30		2	2008-05-16	woody	NE_c	0.161
31		2	2008-05-16	woody	NW_c	0

# Manage naming conventions



The screenshot shows a Microsoft Excel spreadsheet titled "download\_15\_reload herb layer biomass.xls". The spreadsheet has a green header row with columns labeled: Column header, Column definition, Data type, Unit, Instrumentation, References, Keywords (comma separated), Data group title, and Data group description. Below this, there are several data rows. Row 2 contains: location, locationBEF res category; date, dateDate time i date(2009-07-14); functional group, functional group category; sublocation, direction of cen category; and biomass, oven-dry above number. Row 3 contains: CSPs, BEF research p Reasearch plot; date, Date time infor Date time infor; herb layer, func Functional grou Functional grou; CSP subplots, Subplots within Subplots within; and biomass, produ Above-ground t Sapling individ. Rows 4 through 16 are empty. At the bottom of the screen, the tabs "General Metadata", "Acknowledgements", "Columns and data groups" (which is circled in red), "Categories", and "Raw data" are visible.

	Column header	Column definition	Data type	Unit	Instrumentation	References	Keywords (comma separated)	Data group title	Data group description
1									
2	location	locationBEF res category				CSPs	BEF research p Reasearch plot		
3	date	dateDate time i date(2009-07-14)				date	Date time infor Date time infor		
4	functional group	functional group category				herb layer, func	Functional grou Functional grou		
5	sublocation	direction of cen category				CSP subplots	Subplots within Subplots within		
6	biomass	oven-dry above number	gram			biomass, produ	Above-ground t Sapling individ		
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

# Manage naming conventions

The screenshot shows a Microsoft Excel spreadsheet titled "download\_15\_reload herb layer biomass.". The ribbon menu includes Start, Layout, Tabellen, Diagramme, SmartArt, Formeln, Daten, and Überprüfen. The formula bar shows "A17 location". The table has columns labeled A through I. Column A is "Column header", B is "Category short", C is "Category long", and D is "Category description". Rows 1 through 23 contain data: location, Category short, Category long, Category description. Row 17 is highlighted with a blue selection border. The "Categories" tab in the ribbon is circled in red.

	Column header	Category short	Category long	Category description				
1								
2	location	1 1	CSP01	Comparative Study Plot 01				
3	location	10 10	CSP10	Comparative Study Plot 10				
4	location	11 11	CSP11	Comparative Study Plot 11				
5	location	12 12	CSP12	Comparative Study Plot 12				
6	location	13 13	CSP13	Comparative Study Plot 13				
7	location	14 14	CSP14	Comparative Study Plot 14				
8	location	15 15	CSP15	Comparative Study Plot 15				
9	location	16 16	CSP16	Comparative Study Plot 16				
10	location	17 17	CSP17	Comparative Study Plot 17				
11	location	18 18	CSP18	Comparative Study Plot 18				
12	location	19 19	CSP19	Comparative Study Plot 19				
13	location	2 2	CSP02	Comparative Study Plot 02				
14	location	20 20	CSP20	Comparative Study Plot 20				
15	location	21 21	CSP21	Comparative Study Plot 21				
16	location	22 22	CSP22	Comparative Study Plot 22				
17	location	23 23	CSP23	Comparative Study Plot 23				
18	location	24 24	CSP24	Comparative Study Plot 24				
19	location	25 25	CSP25	Comparative Study Plot 25				
20	location	26 26	CSP26	Comparative Study Plot 26				
21	location	27 27	CSP27	Comparative Study Plot 27				
22	location	3 3	CSP03	Comparative Study Plot 03				
23	location	4 4	CSP04	Comparative Study Plot 04				

# Manage data use

Comparative study plot (CSP) information to be shared with all BEF-China scientists 

Competition of tree saplings -Pilot- Biomass of target saplings - biomass allocation to constituents 

Competition of tree saplings -Pilot- Biomass of target saplings - biomass allocation to strata 

Conference 2011 Program and zipped Lectures 

Corrected tree tags on the CSP trees and tree size measures from 2010. 

CSP basal area before and after the snowbreak event in 2008 

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Home Projects Staff Data Papers  Cart Admin

Profile Logout

Added Thickness, mass and C and N pools of the forest floor litter layer (CSPs) to cart.

## litter biomass

Thickness, mass and C and N pools of the forest floor litter layer (CSPs) 

# Manage data use

## Dataset cart

Comparative study plot (CSP) information to be shared with all BEF-China scientists 

Thickness, mass and C and N pools of the forest floor litter layer (CSPs) 

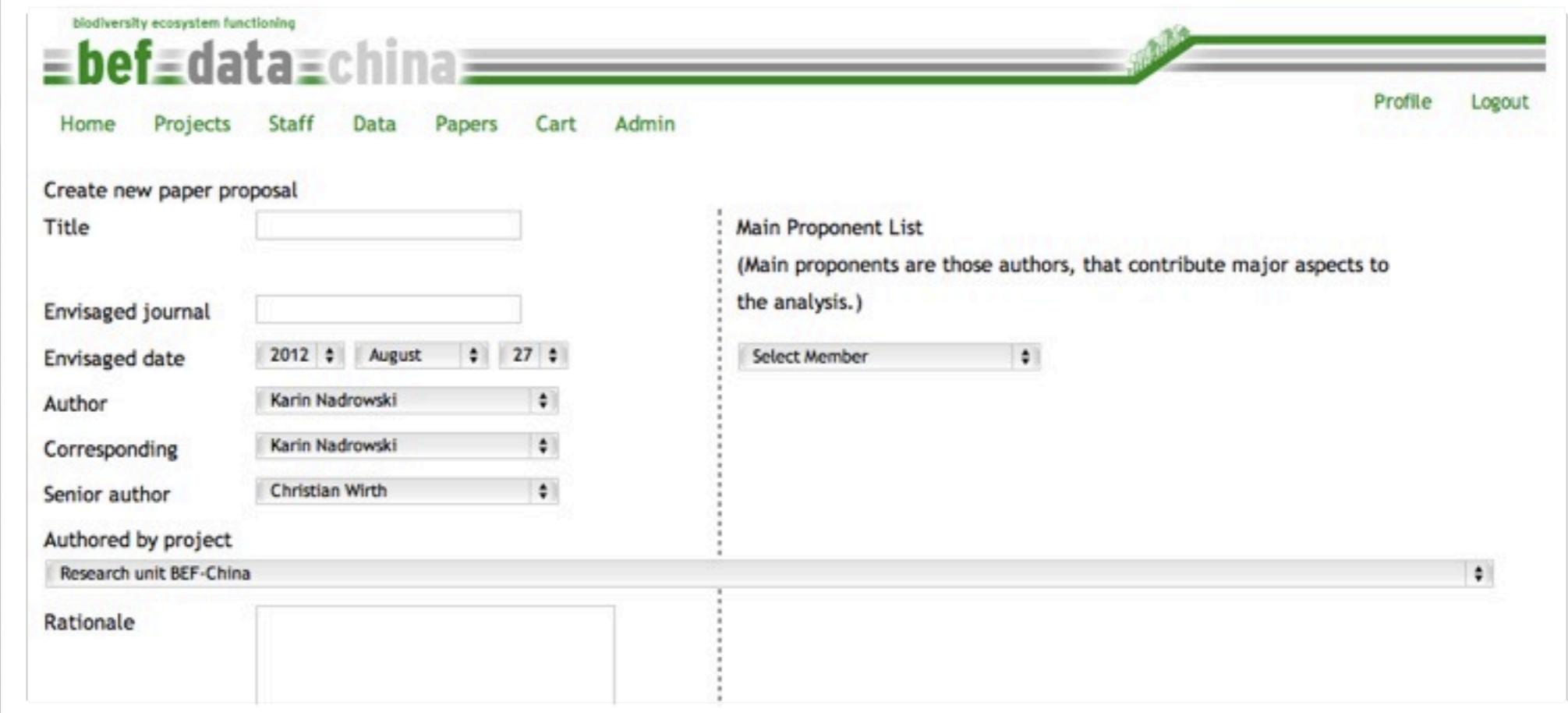
Coarse woody debris (CWD): Collection of data on dead wood with special regard to snow break 

Tree size in the CSPs in 2008 and 2009 

CNS and pH analyses of soils:

Biomass of herb layer plants i

 Create new paper proposal  
from cart



The screenshot shows the bef-data-china website interface. At the top, there is a navigation bar with links for Home, Projects, Staff, Data, Papers, Cart, and Admin. On the right side of the header, there are Profile and Logout links. Below the header, there is a section titled "Create new paper proposal". This section contains several input fields: "Title" (with an empty input field), "Envisaged journal" (with an empty input field), "Envisaged date" (set to 2012-08-27), "Author" (set to Karin Nadrowski), "Corresponding" (set to Karin Nadrowski), "Senior author" (set to Christian Wirth), and "Authored by project" (set to Research unit BEF-China). To the right of these fields is a dashed-line box containing the text "Main Proponent List" and the note "(Main proponents are those authors, that contribute major aspects to the analysis.)". Inside this box is a dropdown menu labeled "Select Member". At the bottom of the page, there is a large text area labeled "Rationale" with an empty input field.

# Manage data use

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## Global Mini Proposal Information

Title	Workflow on carbon stock analys
Initial title	Workflow on carbon stock analys
Envisaged journal	PLoS ONE
Envisaged date	2012 December 27
Author	Claas-Thido Pfaff
Corresponding	Claas-Thido Pfaff
Senior author	Karin Nadrowski
Authored by project	Z2e Integrated data management and synthesis
Rationale	On an exemplary analysis of the carbon stocks of the comparative study sites along the diversity and successional age gradient, we perform an meta analysis on the workflow itself. We define number, complexity, and purpose of workflow steps and discuss this in the light of automating workflows and integrating knowledge

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## Root mycorrhizal fungi in the CSPs [edit](#)

### RATIONAL

Original question was: - root mycorrhizal fungi along a successional gradient The question is, if we change the focus, to avoid overlap with Chen Guo. The idea is that we take the soil microbial activity and biomass information by spec move the focus to functionality, compare it with lipid fractions

Current Board State is: final

Its allowed to download files, present now list of download actions

[CSP microclimate data](#)

[Comparative study plot \(CSP\) information to be shared with all BEF-China scientists](#)

[Soil lipid biomass and relative abundance from 12 CSPs, overview](#)

[Soil lipid biomass and relative abundance from 12 CSPs, individual lipid fractions](#)

# Manage data use

biodiversity ecosystem functioning

**bef data china**

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## Paper Proposals

[Create new Paperproposal](#)

### Published

- Schuldt, A., Zhou, H., Assmann, T. (2009): Integrating highly diverse invertebrates into broad-scale analyses of cross-taxon congruence across the Palaearctic. doi:10.1111/j.1600-0587.2009.05973.x. Palaearctic. Ecography.
- Bachmann, D., Both, S., Bruelheide, H., Ding, B., Gao, M., Härdtle, W., Scherer-Lorenzen, M., Erfmeier, A. (2010): Functional trait similarity of native and invasive herb species in subtropical China - environment-specific differences are the key. Experimental and Environmental Botany.
- Bauhus, J. (2010): Near-Infrared Reflectance Spectroscopy to predict species composition in tree fine-root mixtures. doi:10.1007/s11104-010-0325-2. Plant and Soil .
- Bauhus, J., Scherer-Lorenzen, M. (2010): The influence of mixed species tree plantations on the nutrition of individual species: a review. doi:10.1093/treephys/tpq035. Tree Physiology.
- Geißler, C., Kühn, P., Shi, X., Scholten, T. (2010): Estimation of throughfall erosivity in a highly diverse forest ecosystem using sand-filled splash cups. doi:10.1007/s12583-010-0132-y . Journal of Earth Science.
- Lang, A., Bruelheide, H., Geißler, C., Härdtle, W., Nadrowski, K., Schuldt, A., Yu, M., von Oheimb, G. (2010): Tree morphology responds to neighbourhood competition and slope in species-rich tropical forests. doi:10.1007/s12583-010-0135-9 . Journal of Earth Science.

# Manage data use

biodiversity ecosystem functioning

**bef-data-china**

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**Jessica Gutknecht**

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Email: [jessica.gutknecht@ufz.de](mailto:jessica.gutknecht@ufz.de)  
Url: <http://www.ufz.de/index.php?de=18165>

**Datasets**

Laboratories introduction, rules, forms, log files 

Soil lipid biomass and relative abundance from 12 CSPs, individual lipid fractions   
I'm not sure how to name the PLFA methods, there should be more information on how the data was obtained and how it can be interpreted. What does the abundance mean? Isn't it a biomass measure? Can the abundance matrix be used for community composition and diversity indices?

Soil lipid biomass and relative abundance from 12 CSPs, overview   
Project short name must come from portal -- I removed the lipid data from this dataset to put it in the

**Projects**

SP13e Biomass and activity of the soil microbial community as a function of biodiversity and erosion potential in subtropical forests (Principal investigator)  
New Integrated Litter Experiment (2nd Principal investigator)

# Manage data use

## Paper proposal submissions

### PUBLISHED

Wu, Y., T., Both, S., Böhnke, M., Geißler, C., Gutknecht, J., Kühn, P., Nadrowski, K., Scholten, T., Wubet, T., Buscot, F. (2012): Relationships between soil microorganisms, plant communities and soil characteristics in Chines subtropical forests. doi 10.1007/s10021-012-9533-3. *Ecosystems* (10021\_2012\_9533).

### IN PREPARATION

He, L., Buscot, F., Guo, L., Gutknecht, J., Nadrowski, K., Pietsch, K., Wirth, C., Wu, Y., T., Wubet, T., Liang, Y.: Root mycorrhizal fungi in the CSPs.

Wu, Y., T., Buscot, F., Gutknecht, J., Kühn, P., Trogisch, S., Wubet, T.: Forest age and plant community features influence diversity and structure of the soil fungal community in a Chinese subtropical forest.

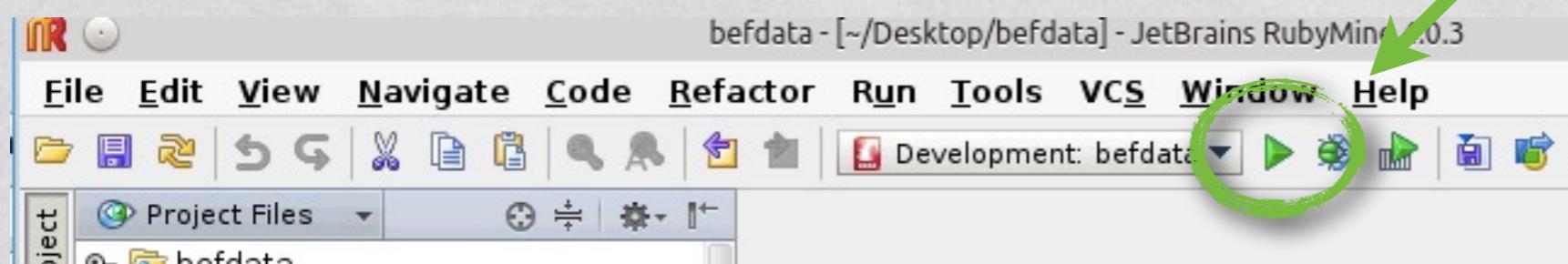
# BREAK

# Live DVD

- Start the Live DVD
- Enable Internet connection

# Start Platform

- Open Rubymine
- Start the development server



- Open browser at localhost:3000

# Add Users

- Project “Diversity”
  - PI is Carly Peterson
  - Student is Rebecca Smith
  - Login: admin pw:test

[Projects](#) [Staff](#) [Data](#) [Papers](#) [Cart](#) [Admin](#)

Successful!

Welcome to the Data portal of the BEF-China project

[localhost:3000/admin/projects](#)
[Frontend](#) [Datasets](#) [Users](#) [Project](#)
[Frontend](#) [Datasets](#) [Users](#) [Projects](#) [Datagroups](#) [Datacolumns](#) [Keywords](#) [Categories](#) [Freeformats](#) [Paperproposal](#)

## Users

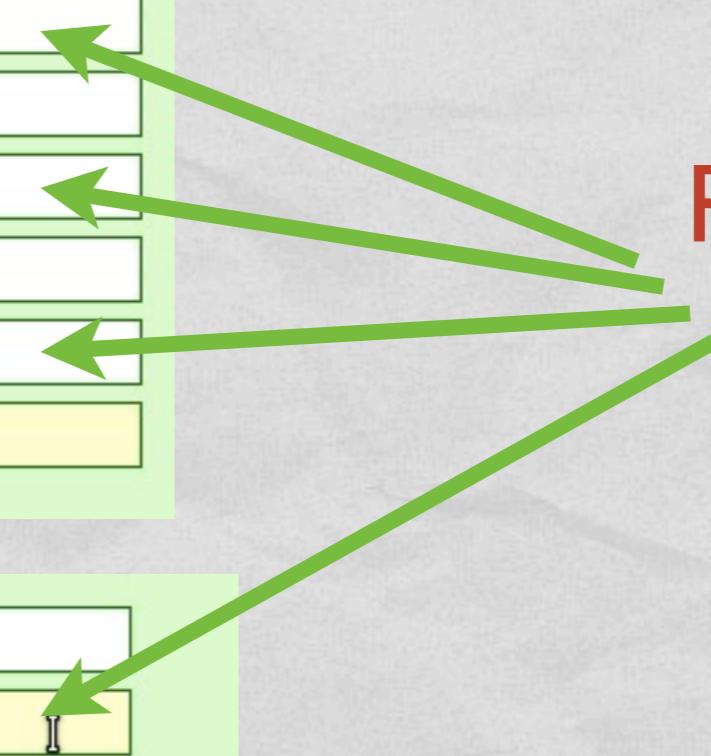
ID	Avatar	Firstname	Lastname	▲ Roles without objects	Roles with objects	
1		Admin	Admin	admin	owner of Dataset with id: 1	<a href="#">Edit</a> <a href="#">Show</a>

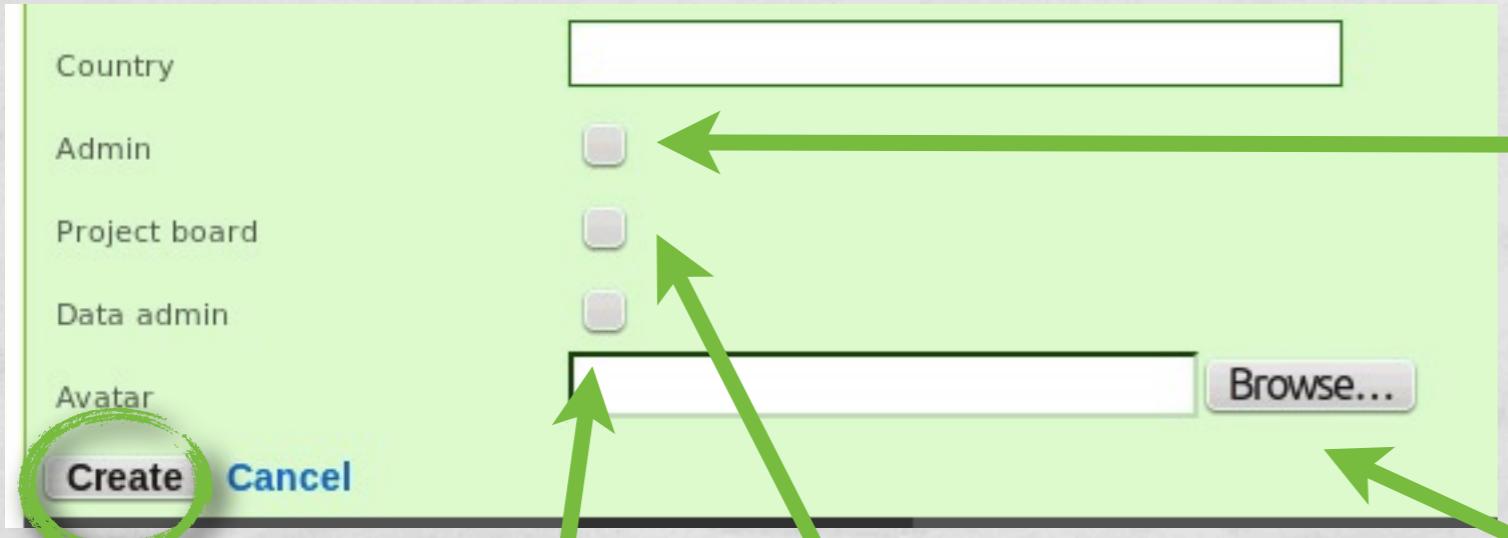
1 Found

### Create User

Firstname	<input type="text" value="Carly"/>
Middle names	<input type="text"/>
Lastname	<input type="text" value="Peterson"/>
Salutation	<input type="text"/>
Login	<input type="text" value="cpeterson"/>
New Password (Leave this blank to keep old password)	<input type="password" value="*****"/>

Url	<input type="text"/>
Email	<input type="text" value="peterson@some.university.exp"/>
Institution name	<input type="text"/>


**Required**



**Admin**

- edit all files
- add users
- add projects

**Avatar**

- add a picture of the user

Saves the user

**Data admin**

- download all files
- edit categories in primary data

**Project board**

- approves paper proposals
- sees metadata quality comments

## Users

Search Create New

Id	Avatar	Firstname	Lastname	▲ Roles without objects	Roles with objects	
						Edit Delete Show
2		Carly	Peterson			
1		Admin	Admin	admin	owner of Dataset with id: 1	

3 Found

Firstname

Rebecca

MiddleNames

Lastname

Smith

Salutation

Login

rsmith

New Password  
(Leave this blank to keep old password)

\*\*\*\*\*

New Password Confirmation

\*\*\*\*\*

Email

smith@some.university.exp

## Users

Search Create New

Id	Avatar	Firstname	Lastname	▲ Roles without objects	Roles with objects	
						Edit Delete Show
3		Rebecca	Smith			
2		Carly	Peterson			
1		Admin	Admin	admin	owner of Dataset with id: 1	

3 Found



# Add Project

- Project “Diversity”, shortcut “sp01 diversity”

File Edit View History Bookmarks Tools Help

BEF BEF-China Admin: datasets - index Evernote Web

localhost:3000/admin/datasets

Frontend Datasets Users Project Datagroups

## DataSets

Id	Title	Filename
1	How to fill a BEFdata Workbook	befdata_workb

1 Found

Frontend Datasets Users Projects Datagroups Datacolumns Keywords Categories Freeformats Paperproposal

## Projects

Search Create New

Id	Shortname	Name
		No Entries

## Projects

### Create Project

Shortname: sp01 diversity

Name: Tree diversity in subtropical forests

Description: We are interested in how diversity emerges in subtropical forests

Comment:

**Accepted roles (Hide)**

Name	Users
pi	Admin Admin Carly Peterson Rebecca Smith
co-pi	
postdoc	
phd student	
student	
technician	

Create Another Role | - select - Add Existing

**Create** **Cancel**

phd student

Name	Users
Admin Admin	
Carly Peterson	
Rebecca Smith	

Create Another Role | - select - Add Existing

Projects			Search	Create New
Id	Shortname	Name		
1	sp01 diversity	Tree diversity in subtropical forests	Edit	Delete
1 Found				

# EXPLORE



Frontend Datasets Users Projects Datagr

## Projects

Id	Shortname	Name
1	sp01 diversity	Tree div

1 Found

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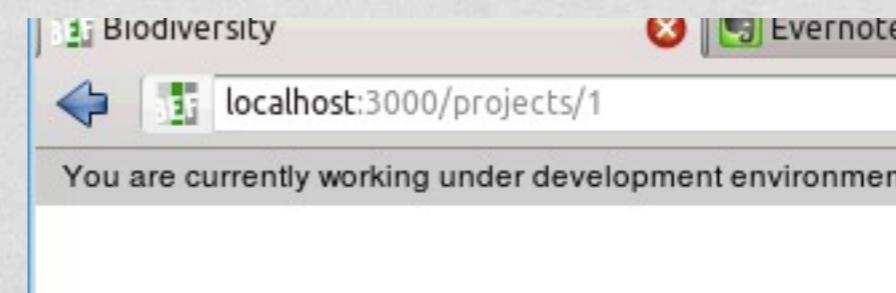
Home Projects Staff Data P

## Welcome to the Data po

The data portal presents the data aggregate information on the project itself, go here: [www.befchina.org/projects/1](#)

## Projects

Tree diversity in subtropical forests



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## Tree diversity in subtropical forests (sp01 diversity)

We are interested in how diversity emerges in subtropical forests

Carly Peterson  
(Principal investigator)

Rebecca Smith  
(PhD student)

DIVERSITY

localhost:3000/users/2-Carly\_Peterson

You are currently working under development environment.

biodiversity ecosystem functioning

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**Carly Peterson**

**Projects**

Tree diversity in subtropical forests  
(Principle investigator)

# THANKS

- Color AE2B21

# Primary data level

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## Data sets

- Abundance of Tree and Shrub species in the Comparative Study Plots (CSP)
- Additional study plots for studying genetic diversity of *Castanopsis eyrei*
- Additional Target trees for C N measurements, SP 5
- Additional trees planted in the main experiment at the edge of the treatment plots
- BEF China Experimental Sites Google presentation
- Biomass of four tree species (*Castanea henryi*, *Quercus serrata*, *Schima suberba* and *Elaeocarpus decipiens*) as saplings in the Pilot Experiment
- Biomass of herb layer plants in the CSPs, separated into functional groups
- Blank paper proposal with comments
- Carbon (C) and Nitrogen (N) Concentration (Root, Stem, Twig, Leaf) of 8 target species in the CSPs
- Checking the raw data sheet for naming conventions, an R script
- Climate measurements in the Gutianshan Nature Reserve
- Climate measurements in the Main Experiment

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**Keywords**

abundance acidity actinomycetes  
additional trees aeromorphic organic  
layer age class air temperature Al  
allelic richness allometries altitude  
AMF ancestry arbuscular mycorrhizal  
fungi aspect bacteria barcode reader  
basal area basal diameter base  
saturation beetles BEF China BEF  
China PIs BEF China projects BEF  
China Projects BEF conference 2011  
BEF summerschool 2011 below ground  
bifurcation point biodiversity  
biodiversity biomass biomass

# Primary data level

BEF research plot  
name

category

Research plots of the Biodiversity - Ecosystem functioning experiment (BEF-China). There are three main sites for research plots in the BEF Experiment: Comparative Study Plots (CSP) in the Gutianshan Nature Reserve, having a size of 30x30m<sup>2</sup>, measured on the ground. Main Experiment plots have a size of 1 mu, which is about 25x25m<sup>2</sup> in horizontal projection. Pilot Study Plots have a size of 1x1 m<sup>2</sup>. Research plots on the main experiment have a "p" in front of their IDs and then a 6 digit code: Plots in the main sites A and B are named according to their position in the original spreadsheet, in which they were designed. They consist of 6 digits: \_1st digit\_: Site (1:A, 2:B), \_digit 2and3\_: southwards row: as in spreadsheets the rows are named from the top to the bottom; \_digit 4 and 5\_: westward column: as in the original spreadsheet, but the letters are converted to numbers (A=01, B=02); \_6th digit\_: indicator, if the plot has been shifted a quarter mu. Example: "p205260": "p" means that this is a plot that is specified. "2" means, that we are at site B. Now the coordinates of the south - west corner: "0526". Since "e" is the fifth letter of the alphabet, this is Plot E26. The last digit "0" means that this plot was not moved by a quarter of a Mu, as some sites in Site A. The 6th digit can also indicate the subplot within the plot. "5", "6", "7", "8" indicate the northwest, northeast, southeast, and southwest quarter plot respectively.

The screenshot shows a web interface for managing data groups. At the top, there's a navigation bar with links for Home, Projects, Staff, Data, Papers, Cart, Admin, Profile, and Logout. The main content area has a title 'Datagroup: BEF research plot name'. Below it, there are sections for 'TYPE' (set to 'category') and 'DESCRIPTION' (containing the explanatory text about the plot naming scheme). To the right, there's a sidebar with three buttons: 'Download Categories as CSV', 'Upload Categories as CSV', and 'List Datagroups'.

Research plots of the Biodiversity - Ecosystem functioning experiment (BEF-China). There are three