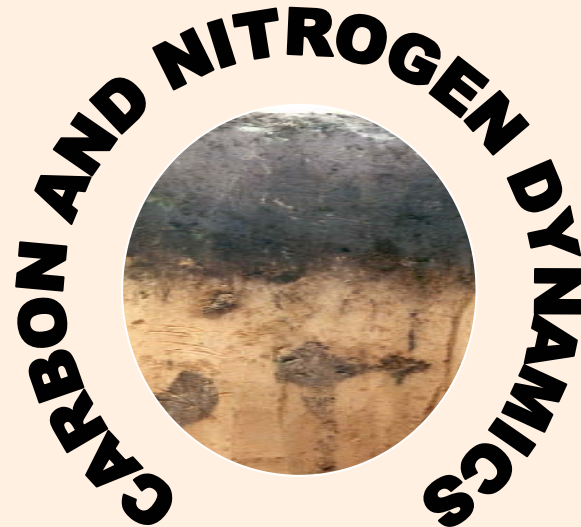


# CANDY

Windows Version

**Introduction  
 in multi-year  
 simulations of  
 nitrogen and  
 carbon turnover  
 (examples)**

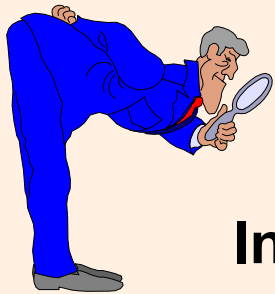


*M. Puhlmann und U. Franko, [mpuhlm@bdf.ufz.de](mailto:mpuhlm@bdf.ufz.de)*

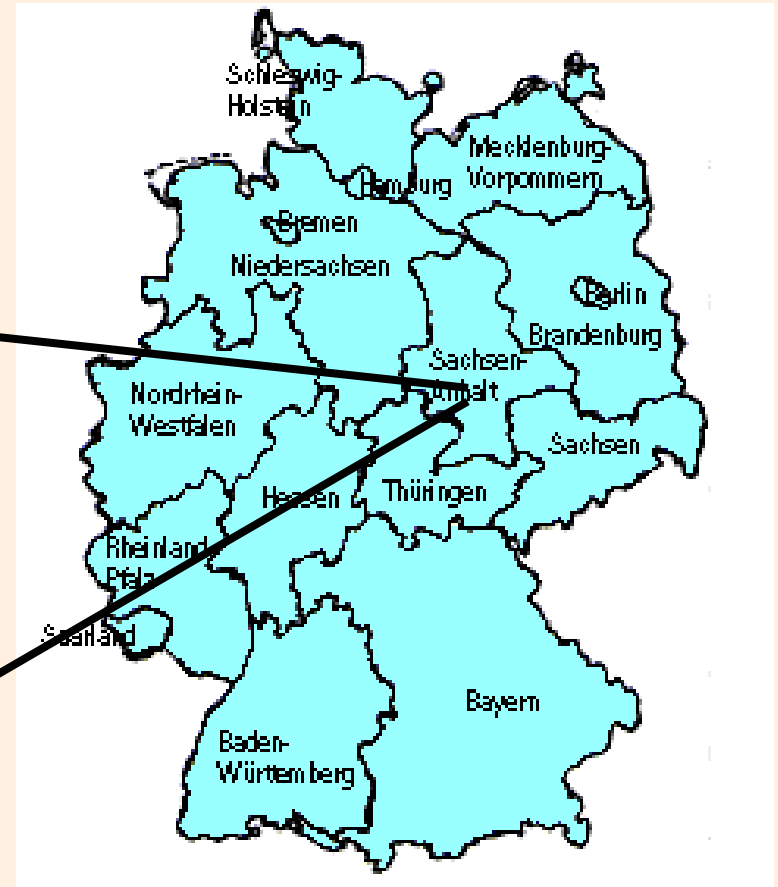
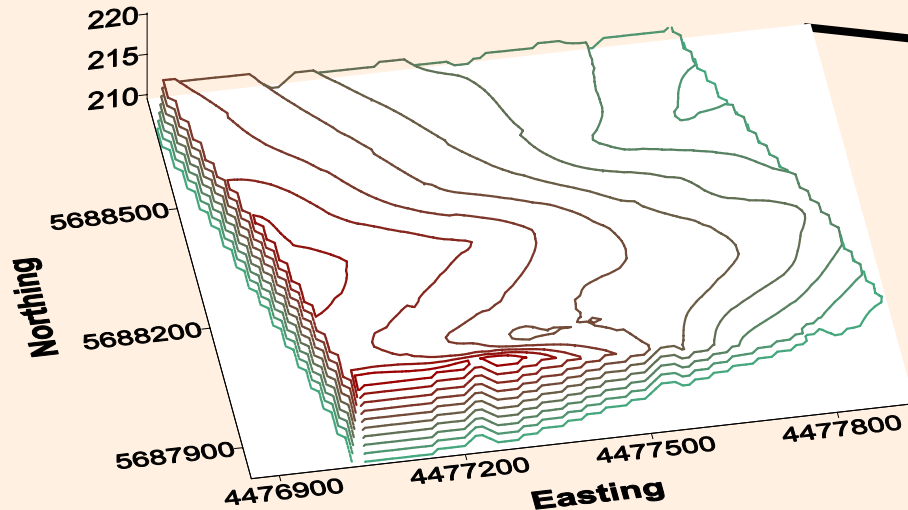
## Contents

- ⇒ **Background information (site, objectives)**
- ⇒ **Provide climate data, defining a simulation object, input of management data and experimental values**
- ⇒ **Starting a standard simulation, evaluating results**
- ⇒ **Starting a simulation by using shape files**
- ⇒ **Developing strategies for nitrogen fertilization**
- ⇒ **Developing strategies to optimize carbon input**

## Background information (site, objectives)

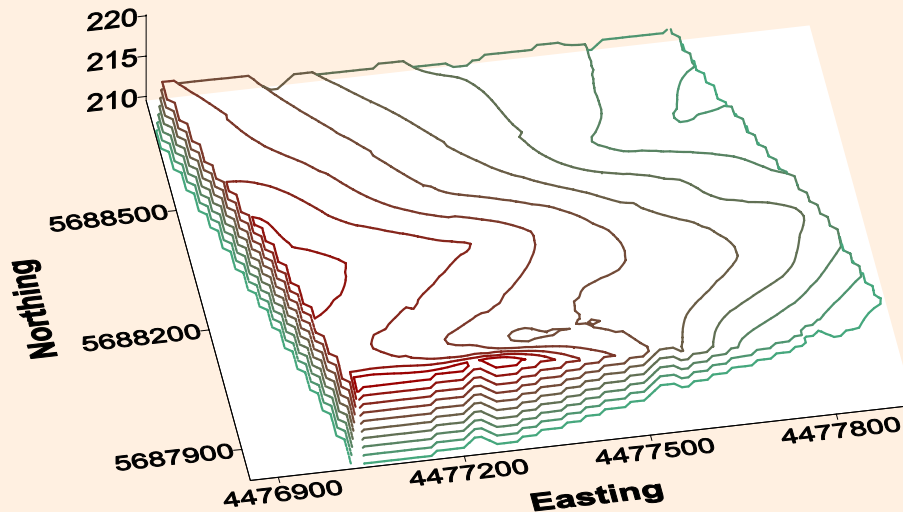


### Investigated field



## Background information (site, objectives)

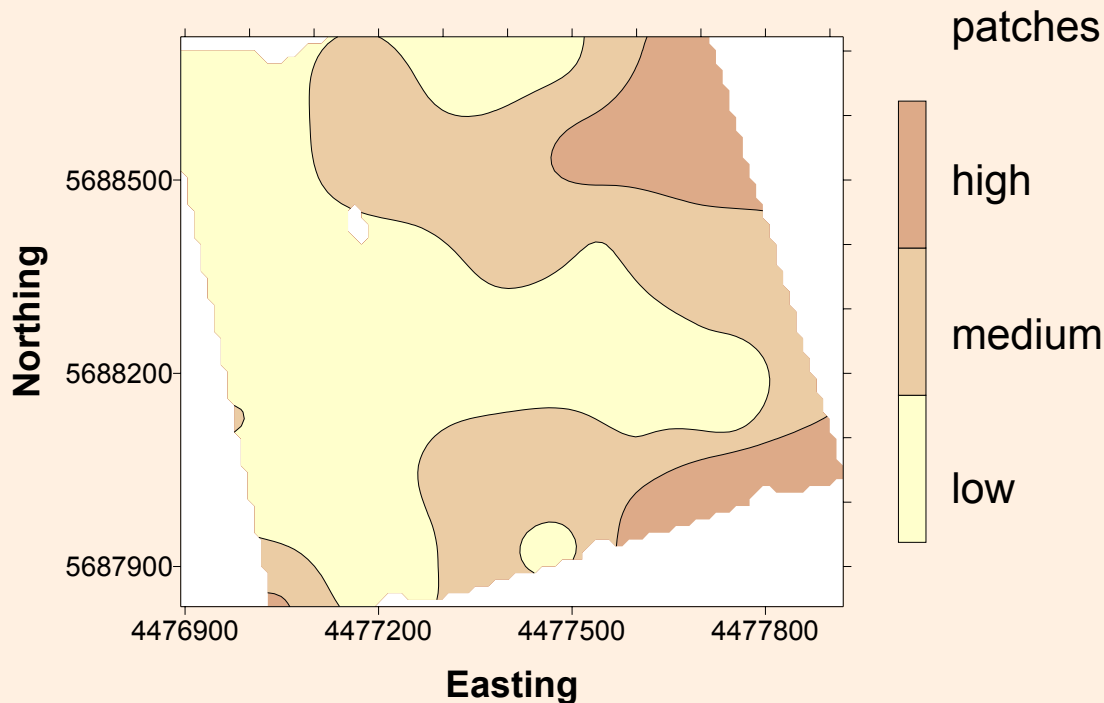
Elevation map



- Chernozem area of Saxony-Anhalt
- loess soil
- soil type = loam
- Ø clay content = 20%
- Ø temp. = 8.8
- Ø precip. = 520 mm

## Background information (site, objectives)

Map of decomposable carbon



**Developing strategies to optimize nitrogen fertilization and carbon input for the three areas**



## **Provide climate data, defining a simulation object, input of management data and experimental values**

Please take the manual and go to the page ***‘Example with comments’***

Follow the instruction in the manual for part 1:  
***Introduction in the user interface (data input)***

If you have any question don't hesitate do ask!

## Starting a standard simulation, evaluating results

Go to part 2: *Standard simulation*

We will guide you through a standard simulation and the evaluation of results (video projector).

## Starting a simulation by using shape files

Go to part 3: *Multi-year simulation of nitrogen and carbon turnover by using shape files*

We will guide you through a simulation started from the *MapView* window (video projector).



## Developing strategies for nitrogen fertilization

Go to part 4: ***Developing management strategies for N-fertilization***

We will guide you through the ***N-prognosis module*** (video projector).

## Developing strategies to optimize the organic carbon input

Go to part 5: *Developing management strategies to optimize the organic carbon input*

We will give you some suggestions about possibilities to evaluate the organic carbon level and the organic carbon input (video projector/manual).

Do you have further questions?

If you decide to work with the CANDY model,  
don't hesitate to contact us:

[ufranko@bdf.ufz.de](mailto:ufranko@bdf.ufz.de)  
[mpuhlmann@bdf.ufz.de](mailto:mpuhlmann@bdf.ufz.de).

Thank you for your interest in the CANDY model  
and your attention.