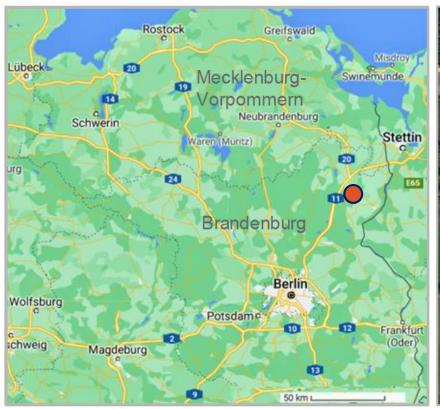


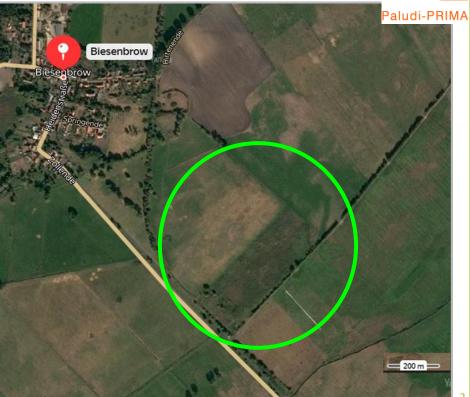


HOW CAN THE POPULATION GENETIC DIVERSITY OF COMMON REED, PHRAGMITES AUSTRALIS, CHANGE OVER 24 YEARS?

A. Rudyk, E. Seeber, K. Kuprina, M. Schnittler, M. Bog 09/03/2021 Location of the «Biesenbrow Project»

(started in 1996 - 1998)





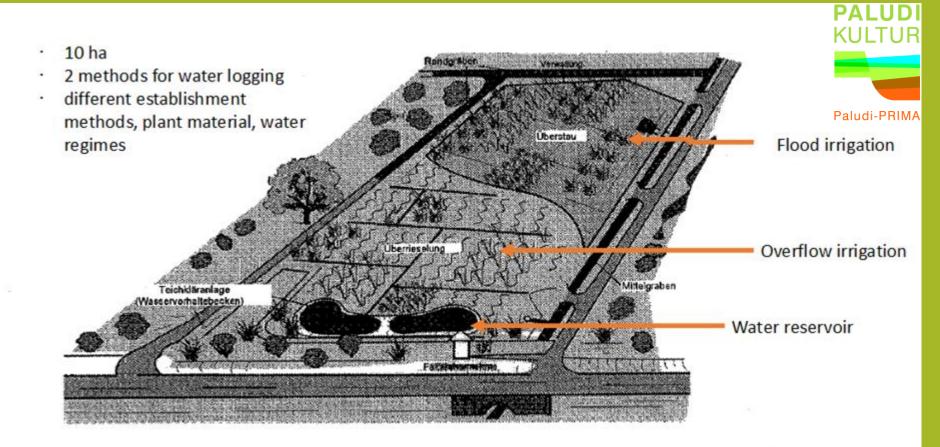


Figure 1 Schematic overview of the investigation area in Biesenbrow, Northeastern Germany



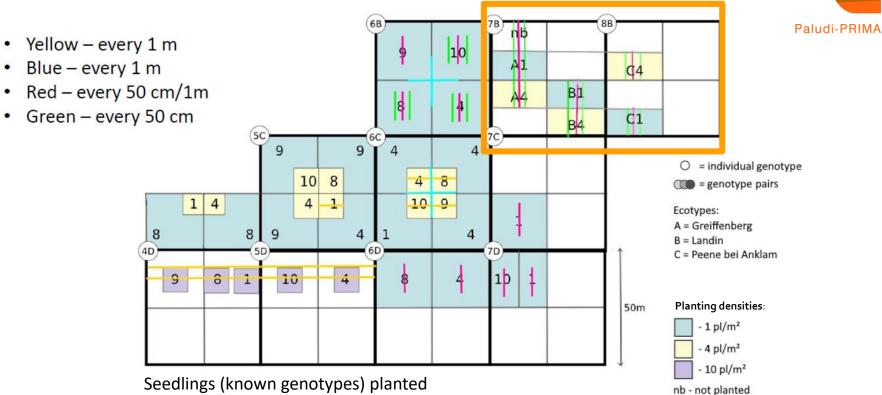
Research questions:

- 1. Is it possible to detect five original genotypes?
- 2. Which genotype is better adapted to the environment among the five?
- 3. How is the genotypic diversity affected by the planting density and the number of genotypes in the long term?
- 4. Is there any possibility of seed immigration to monoclonal plots?

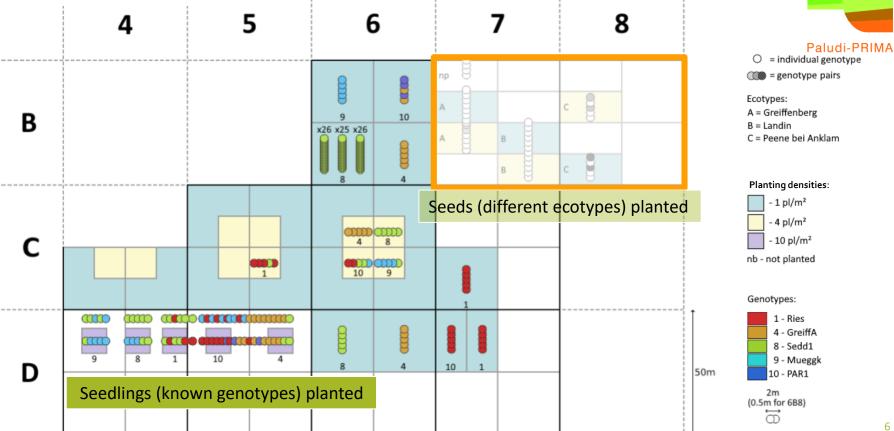
Sampling



Seeds (different ecotypes) planted



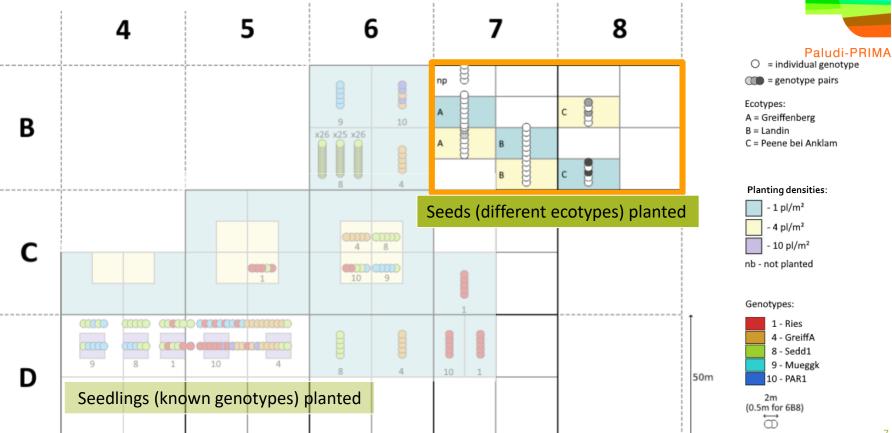
Results







Results









Conclusions:

- Five original genotypes were detected
- 2. Two genotypes (1 and 8) showed the highest degree of persistence and interference; one genotype (10) is the least competitive
- 3. Plots with lower planting density (1 pl/m2) tend to be monoclonal
- 4. Multiclonal plots (planted with seeds) keep their diversity for over 20 years
- 5. There were no clear signs of any seed immigration