

Martina Schmidt



Student of Biology
at Christian-Albrechts-Universität
Kiel

Curriculum Vitae

- Name: Martina Schmidt
- Date of birth: 27th of November 1978
- Place of birth: Rio de Janeiro, Brazil
- Citizenship: German
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Curriculum Vitae

- Education:

1999-present

Student of biology at Christian-Albrechts-Universität
Kiel,

Main subject: ecology,

Minor subjects: botany, landscape development

1989-1998

Albert-Schweitzer-Gymnasium in Erlangen,

Main subjects: english, arts

- Language skills:

German, English, Portuguese, Spanish, French

Research Project

- The project:
Is there a conflict between apiculture and the agriculture of genetically modified crops and how can it be described?



Research Project

- My part:
 1. How big is the area that a beekeeper in Schleswig-Holstein needs for his agriculture?
 2. Which is the total area used by agriculture in Schleswig-Holstein?
 3. How do areas of apiculture overlap with potential areas of agriculture of genetically modified crops (specially oilseed rape, *Brassica napus*)?

1.

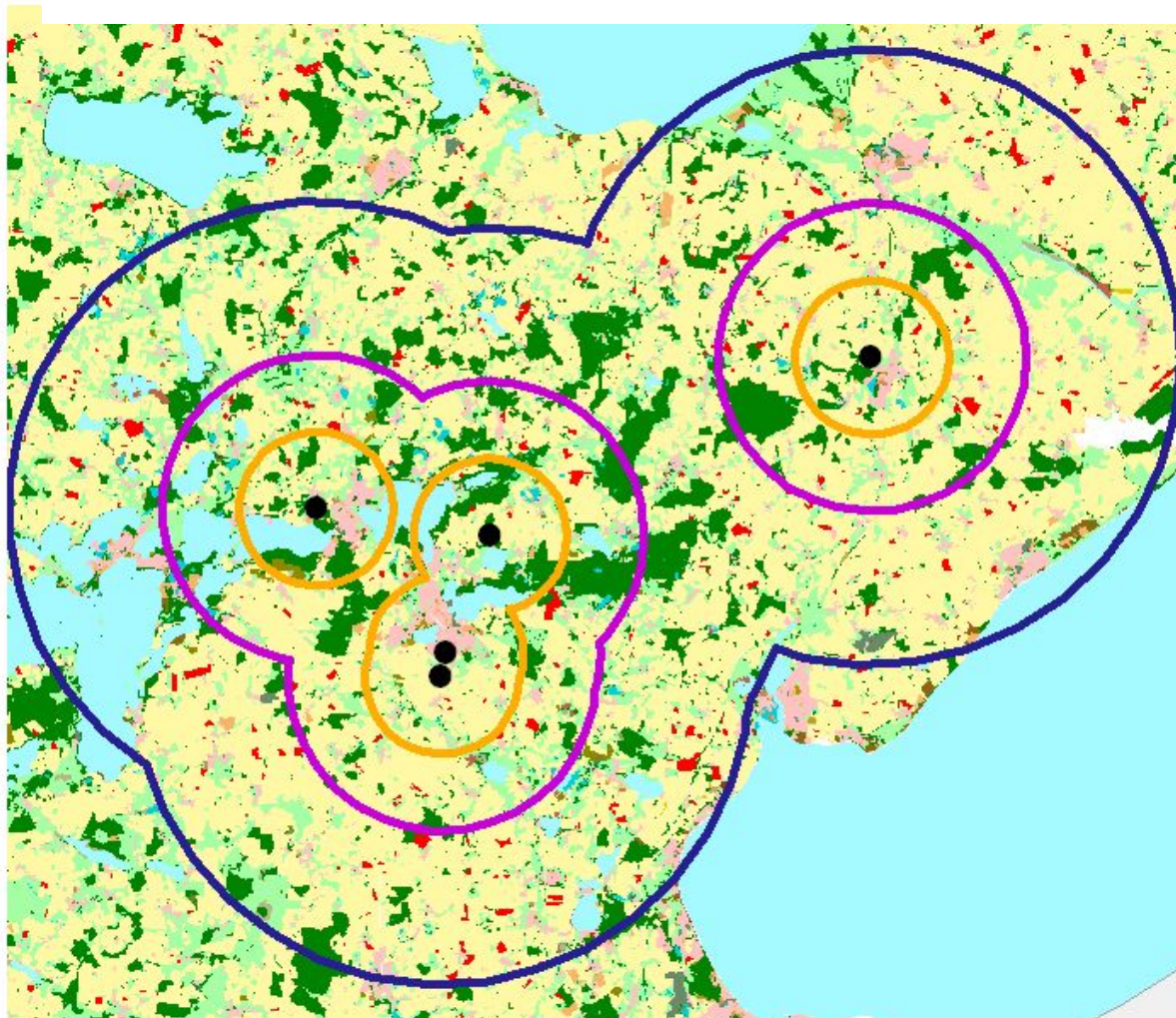
Important factors that define the area:

- number of bee colonies and sites
- actual flight distance (mainly dependant on quality and quantity of crops)
- Landscape structure: huge water bodies can function as barriers

2.

- There are nearly no „bee-free“ areas in Schleswig-Holstein

3. Example of a middle sized apiculture



Sites:

- 5 sites with
22 bee colonies
8 colonies of young bees

ATKIS-Landuse:

- settlement
- forest
- agriculture
- meadow and pasture
- water

Area of apiculture:

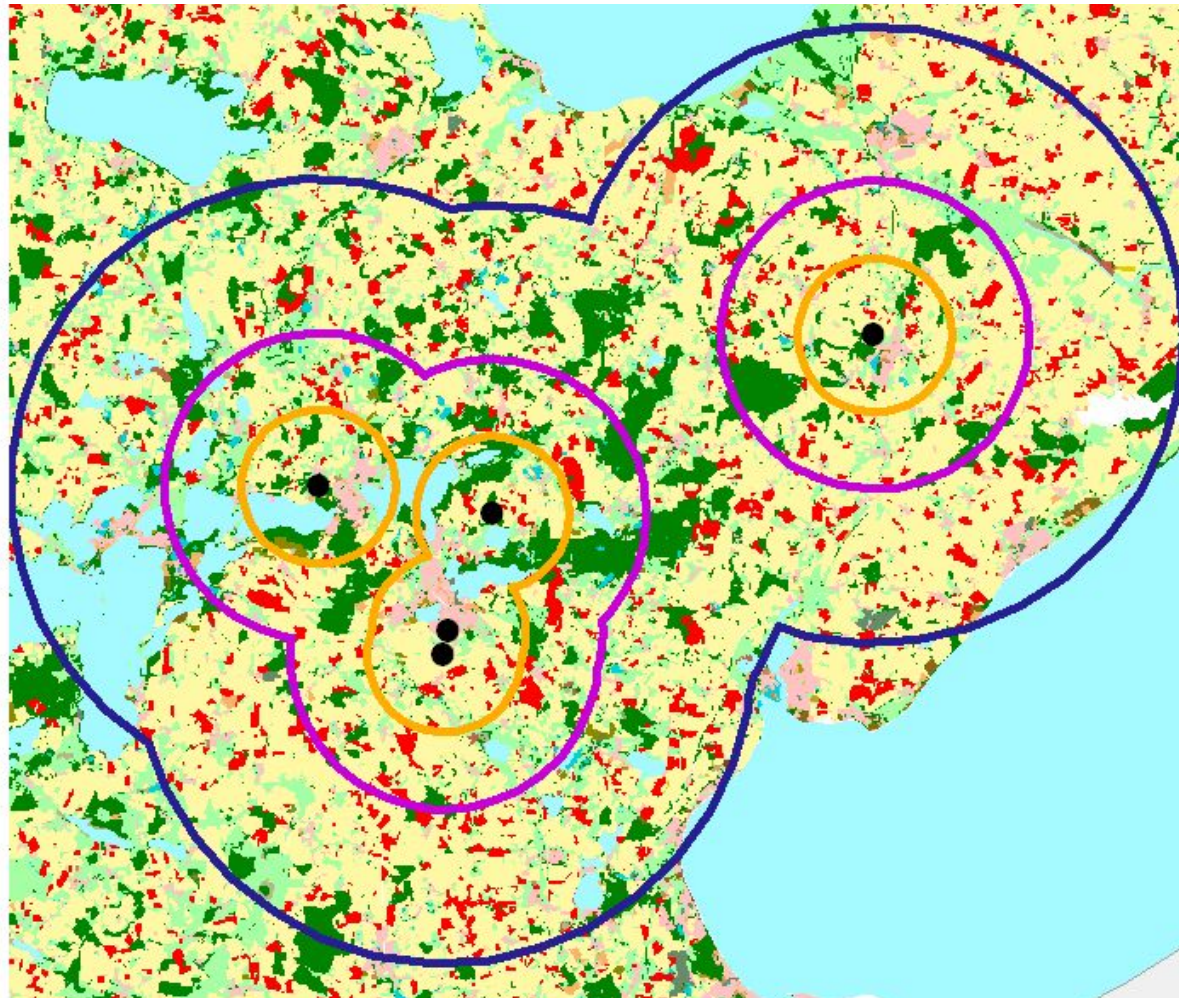
- 3 km-radius: 115 km²
- 6 km-radius: 361 km²
- 12 km-radius: 1075 km²

■ Variante 10% GV-Raps



0 2 4 Kilometer

Example of a middle sized apiculture:



 Variante 50% GV-Raps




Sites:

- 5 sites with
22 bee colonies
8 young bee colonies

ATKIS-Landuse

-  settlement
-  forest
-  agriculture
-  meadow and pasture
-  water

Area of apiculture

-  3 km-radius: 115 km²
-  6 km-radius: 361 km²
-  12 km-radius: 1075 km²



0 2 4 Kilometer


Example of a middle sized apiculture

Sites:

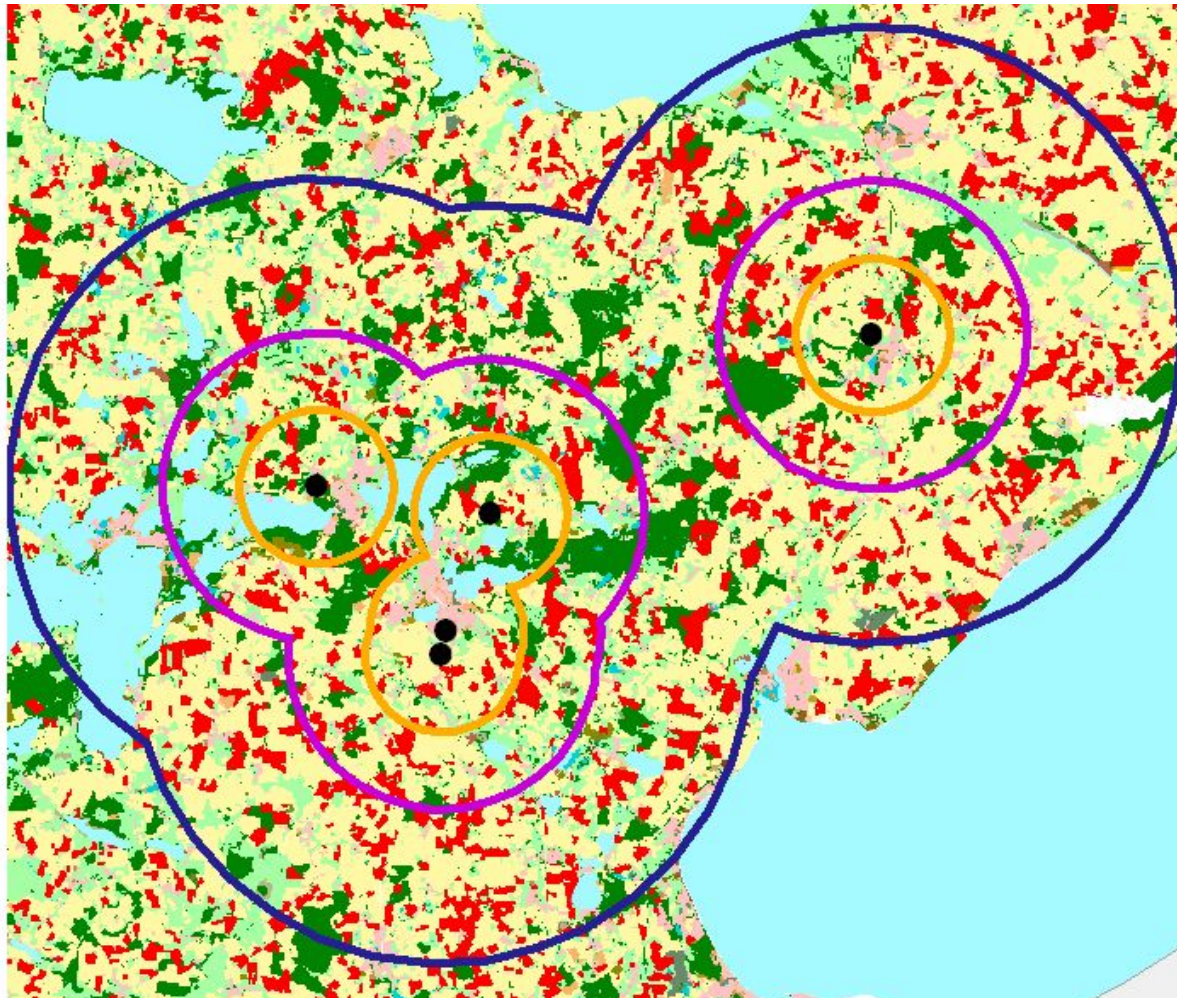
- 5 sites with
22 bee colonies
8 young bee colonies

ATKIS-Landuse:

- settlement
- forest
- agriculture
- meadow and pasture
- water

Area of apiculture:

- 3 km-radius: 115 km²
- 6 km-radius: 361 km²
- 12 km-radius: 1075 km²



■ Areas of oilseed rape in 2000

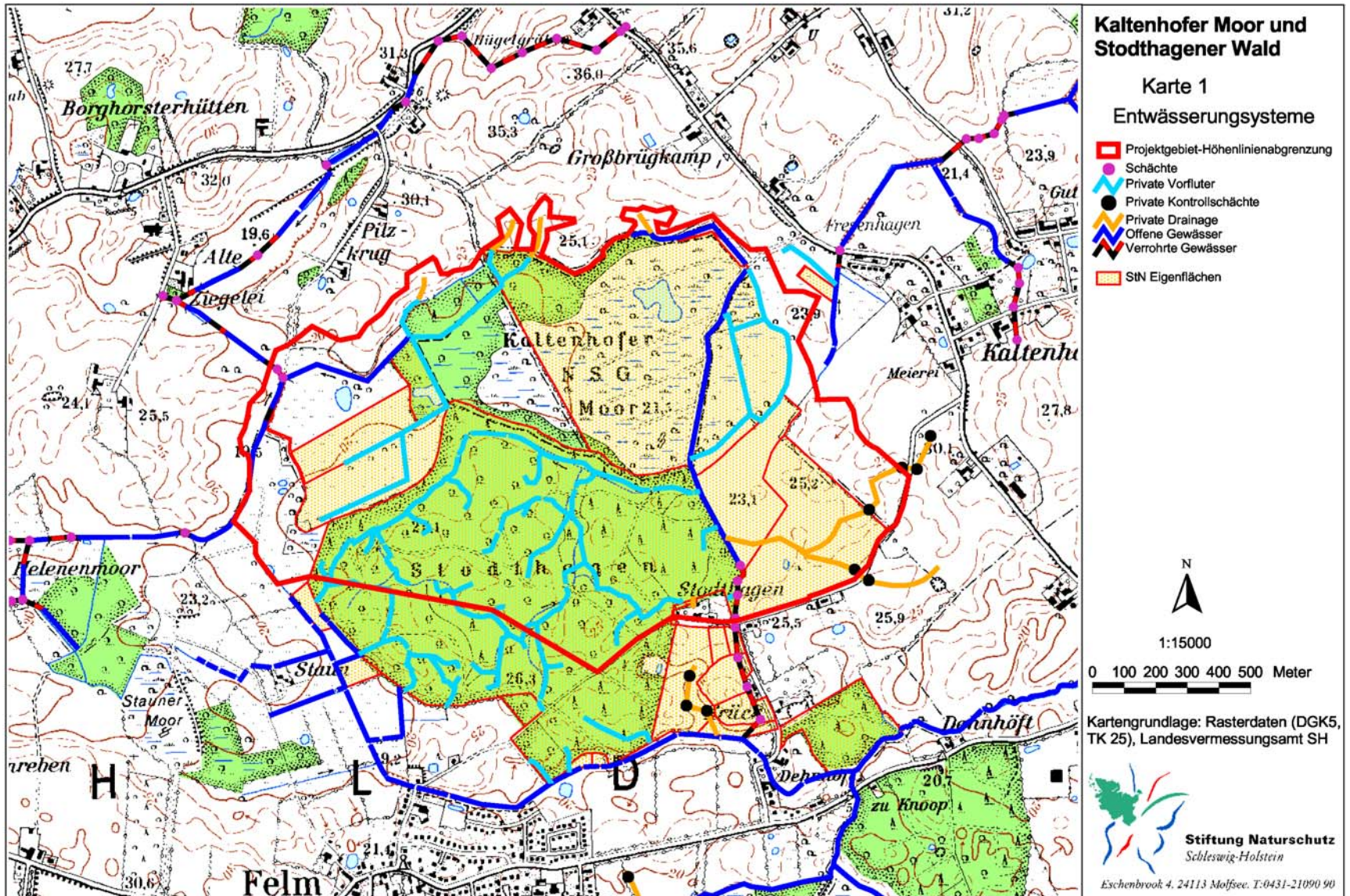


0 2 4 Kilometer

Diploma Thesis

- Description of the early successional state of the vegetation in a rewetted forest in Schleswig-Holstein.
- Methods:
 - transects for vegetation
 - changes in the water level
 - nutrients
 - vegetation mapping

Stodthagener Wald / Kaltenhofer Moor

















Thank you!