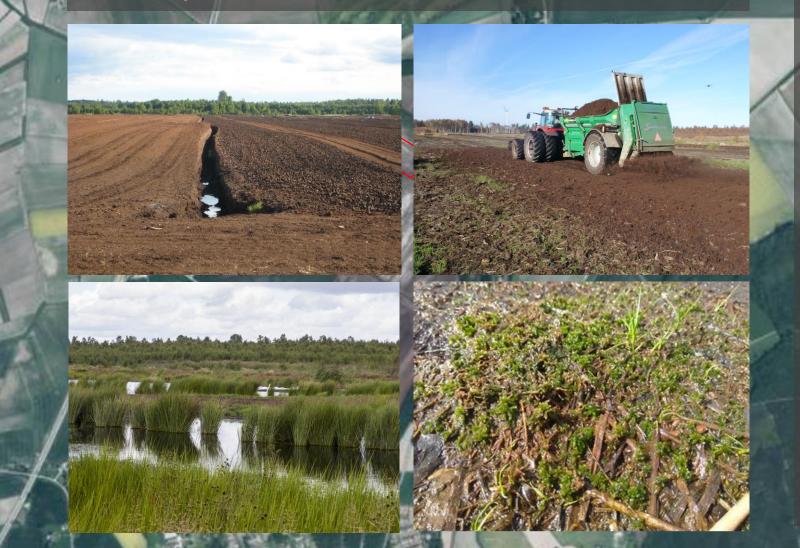
Early stages of revegetation after two years of rewetting an extracted peatland in Sweden

Eva Weber Sabine Jordan Örjan Berglund

Ekebymossen



2018 October May

2019

2020

2017

Peat extraction terminated

 Soil sampling and GHG measurements

Introduction of Sphagnum fragments & Rewetting

> Vegetation survey GHG measurements, water and soil sampling ...

Sphagnum Ekeby

Area

Area 1: 100% Sphagnum
 Area 1: Straw
 Area 1: SLU
 Area 2: 10/90%
 sphagnum/black peat

Area 2: 50/50% Sphagnum/black peat

Area 3: 100% sphagnum + black peat

Area 3: Straw

Water sample

EM1 - utgående vatten
EM2
EM3
EM4 - inkommande vatten
EM5
EM6
Adjustable outlet



SLU

Ekebymossen

Objective

Investigate early stages after rewetting in:

- GHG-emissions
- Water quality
- Soil properties
- Vegetation
 - Interactions between these components

→ Evaluation of rewetting as an after-use measure





Vegetation survey

Drone flights:

From 2018 onwards

Vegetation mapping:

Transect

- Continuously throughout the vegetation period 2020 (& 2021)
 Coverage after Braun-Blanquet
- 25 cm x 25 cm frames

		XC			
A AN			State 1		
Sec. 10					
			B		
	X SURGESSIA			A BULLA	

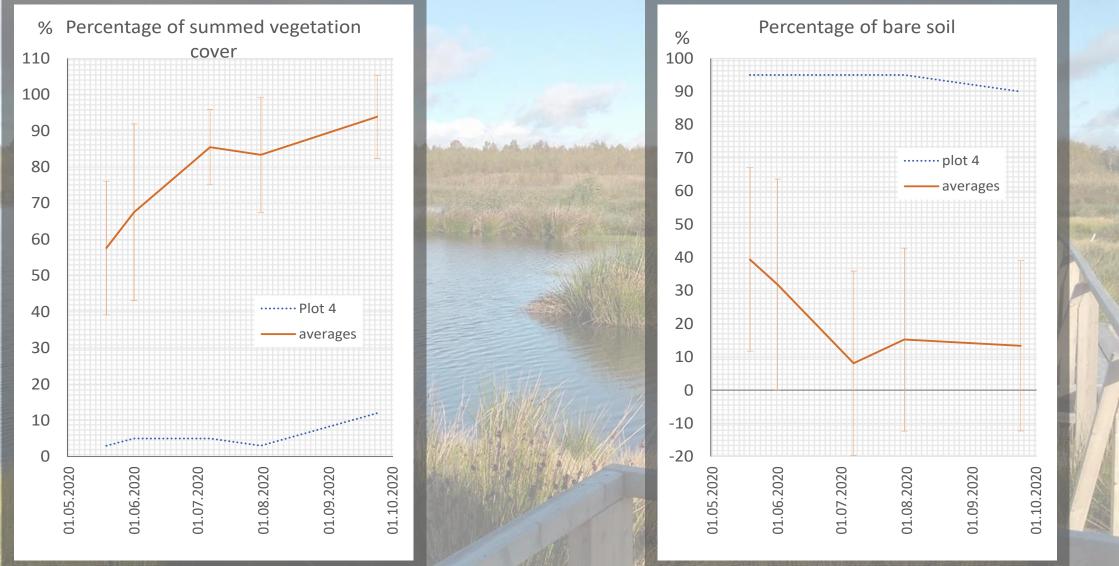
1	A	В	C	D	E	Chill.
	-	19.05	07			
	bare soil	10	10	$\int t^{-j} t$		
	mosses (without Spa	15	20			
	litter	5	10	and a		
	species	German	Swedish			
		4	4			
		62	82			
	Juncus effusus	Flatterbinse	Veketåg	30	55	*
	Carex canescens	Grau-Segge	Gråstarr	30	25	-
	Rumex acetosella	Kleiner Sauerampfer	Bergsyra	2	2	and the second
L.	Cabaanum ango			0	0	11.5

Vegetation survey: Drone flights

which is a support of



Vegetation survey: Mapping



and the second s

GRANNING MILLION PROPERTY

Vegetation survey: Mapping



Conclusion

- Fast recolonization by typical peatland vegetation
- High abundance and coverage of peatforming species
- Indicator for degradation dominant



