



«Peatland restoration for greenhouse gas emission reduction and carbon sequestration in the Baltic Sea region» (LIFE PeatCarbon, LIFE21 - CCM - LV)

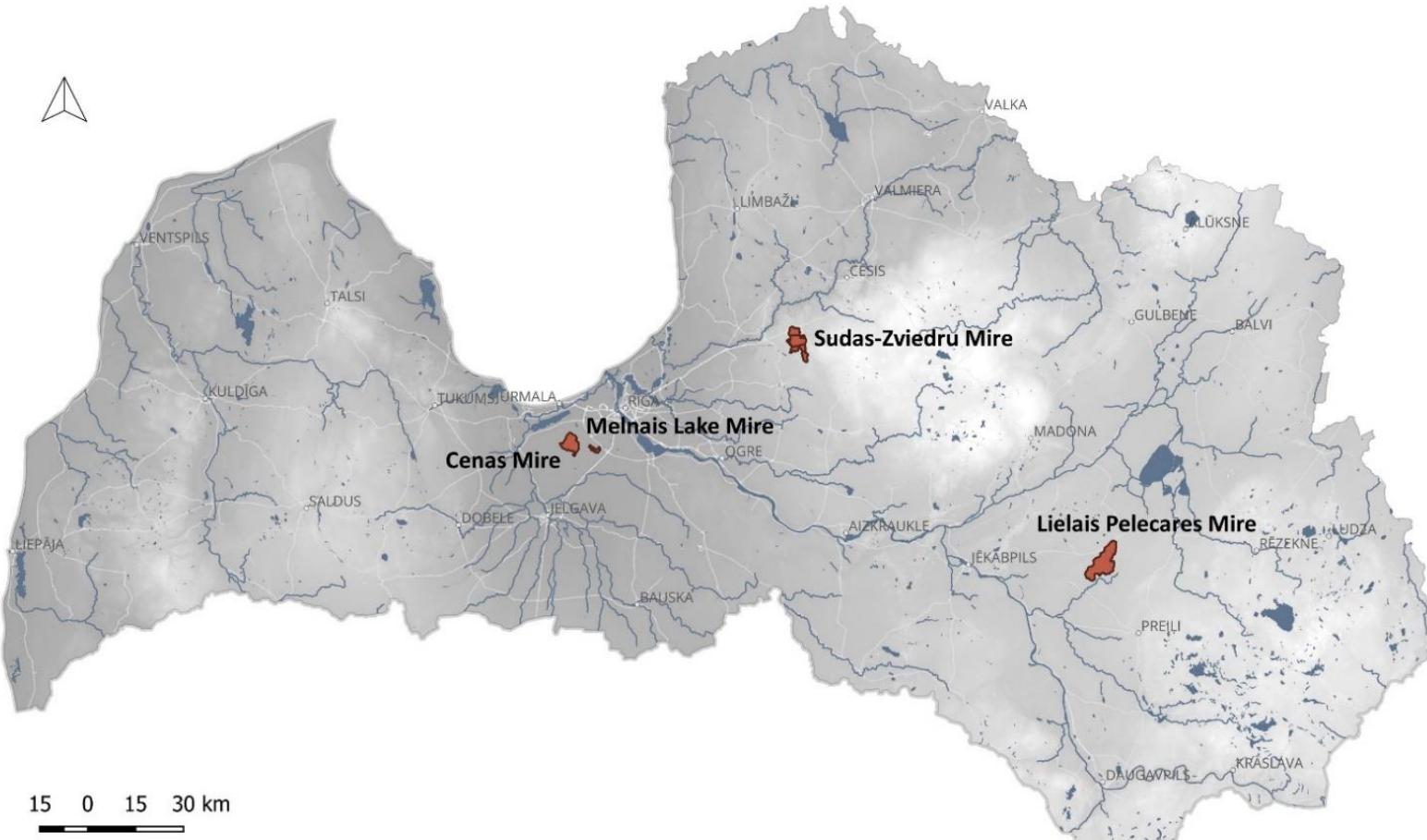
## Vegetation monitoring results in Latvian project sites



Līga Strazdiņa

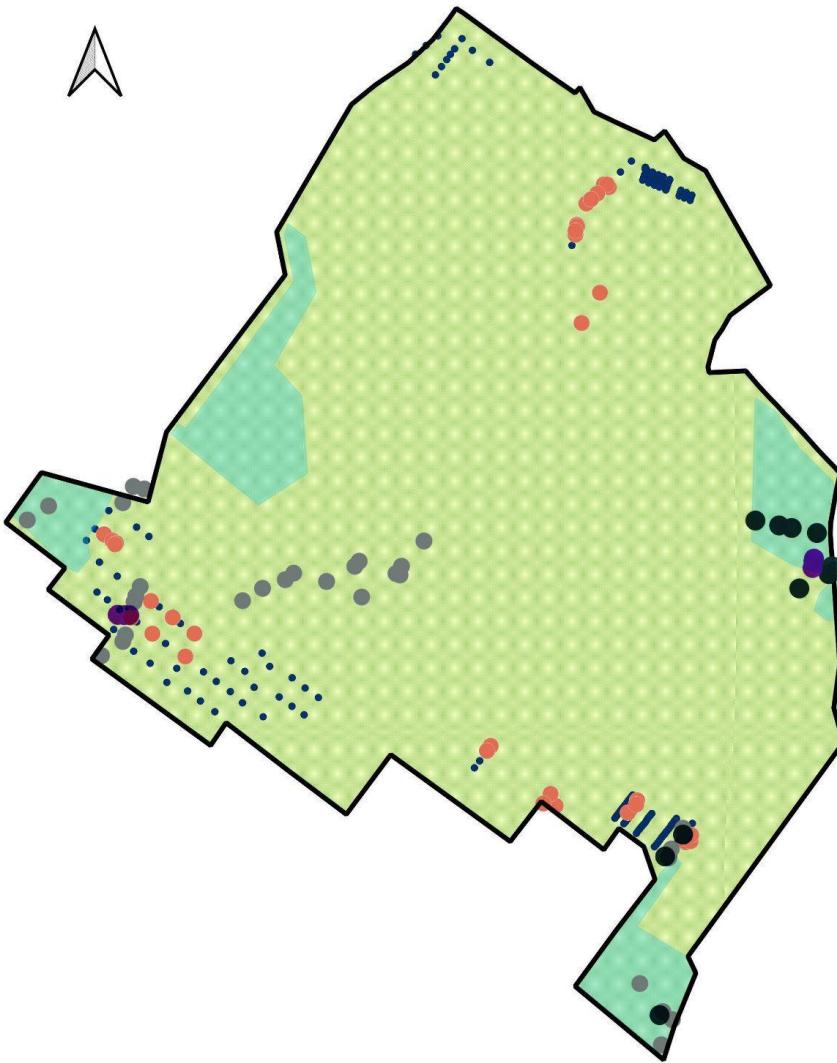
26.09.2024

Project Steering Group Meeting



Year	Plot size	Number of plots	
		HyM	GHG
<b>Cenas Mire</b>			
2005	10*10 m	7	
	1*1 m	25	
	1.5*2 m	25	
2023	1*1 m	11	16
<b>Melnais Lake Mire</b>			
2011	1*1 m	49	
2023	1*1 m	-	9
<b>Lielais Pelecares Mire</b>			
2023	1*1 m	15	27
<b>Sudas-Zviedru Mire</b>			
2014	10*10 m	6	
	1*1 m	60	
2023	1*1 m	11	9

## Monitoring plot selection

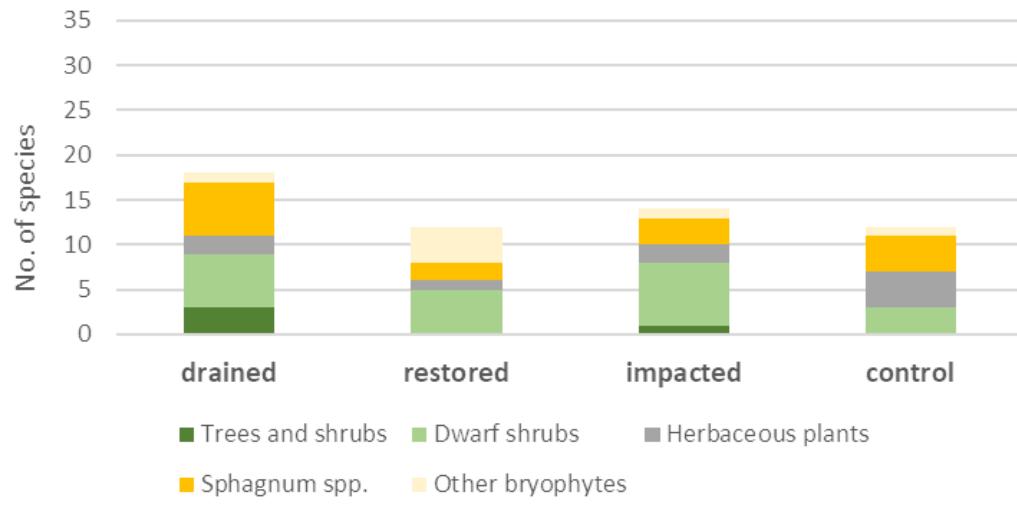


	Cenas Mire		Melnais Lake Mire	Lielais Pelečāres Mire		Sudas-Zviedru Mire	
	Vegetation monitoring	GHG	GHG	Vegetation monitoring	GHG	Vegetation monitoring	GHG
<b>TREES AND SHRUBS</b>							
<i>Betula pendula</i>	x			x	x	x	
<i>Betula pubescens</i>	x		x		x	x	
<i>Frangula alnus</i>				x			
<i>Picea abies</i>					x		
<i>Pinus sylvestris</i>	x	x	x	x	x	x	x
<b>DWARF SHRUBS</b>							
<i>Andromeda polifolia</i>	x	x	x	x	x		
<i>Calluna vulgaris</i>	x	x	x	x	x		
<i>Chamaedaphne calyculata</i>	x			x	x		
<i>Empetrum nigrum</i>	x	x	x	x			
<i>Ledum palustre</i>	x	x	x	x	x		
<i>Oxycoccus microcarpa</i>	x			x			
<i>Oxycoccus palustris</i>	x	x	x	x	x		
<i>Rubus chamaemorus</i>	x	x		x	x		
<i>Vaccinium myrtillus</i>				x	x		
<i>Vaccinium uliginosum</i>				x	x		
<i>Vaccinium vitis-idaea</i>	x	x		x	x		
<b>HERBACEOUS PLANTS</b>							
<i>Drosera anglica</i>	x						
<i>Drosera rotundifolia</i>	x	x	x	x	x		
<i>Eriophorum vaginatum</i>	x	x	x	x	x		
<i>Luzula pilosa</i>				x			
<i>Melampyrum pratense</i>				x			
<i>Phragmites australis</i>	x						
<i>Rhynchospora alba</i>	x			x	x		
<i>Scheuchzeria palustris</i>				x	x		

	Cenas Mire		Melnais Lake Mire	Lielais Pelečāres Mire		Sudas-Zviedru Mire	
	Vegetation monitoring	GHG	GHG	Vegetation monitoring	GHG	Vegetation monitoring	GHG
<b>BRYOPHYTES</b>							
<i>Aulacomnium palustre</i>	x		x	x			
<i>Brachythecium rutabulum</i>	x						
<i>Dicranum Bergeri</i>						x	x
<i>Dicranum bonjeanii</i>							x
<i>Dicranum polysetum</i>	x	x				x	x
<i>Dicranum scoparium</i>	x	x				x	x
<i>Hypnum cupressiforme</i>	x						
<i>Mylia anomala</i>	x						
<i>Pleurozium schreberi</i>	x	x	x	x	x	x	x
<i>Polytrichum commune</i>						x	
<i>Polytrichum juniperinum</i>	x	x					x
<i>Polytrichum strictum</i>						x	x
<i>Sphagnum angustifolium</i>	x		x	x	x	x	x
<i>Sphagnum capillifolium</i>	x	x			x	x	x
<i>Sphagnum contortum</i>					x		
<i>Sphagnum cuspidatum</i>	x	x	x	x	x	x	x
<i>Sphagnum flexuosum</i>	x	x	x	x	x	x	x
<i>Sphagnum fuscum</i>	x	x			x	x	x
<i>Sphagnum girgensohnii</i>					x		
<i>Sphagnum medium</i>	x	x	x	x	x	x	x
<i>Sphagnum rubellum</i>	x	x	x	x	x	x	x
<i>Sphagnum tenellum</i>	x					x	
<b>LICHENS</b>							
<i>Cladonia stellaris</i>					x	x	
<i>Cladonia stygia</i>					x	x	

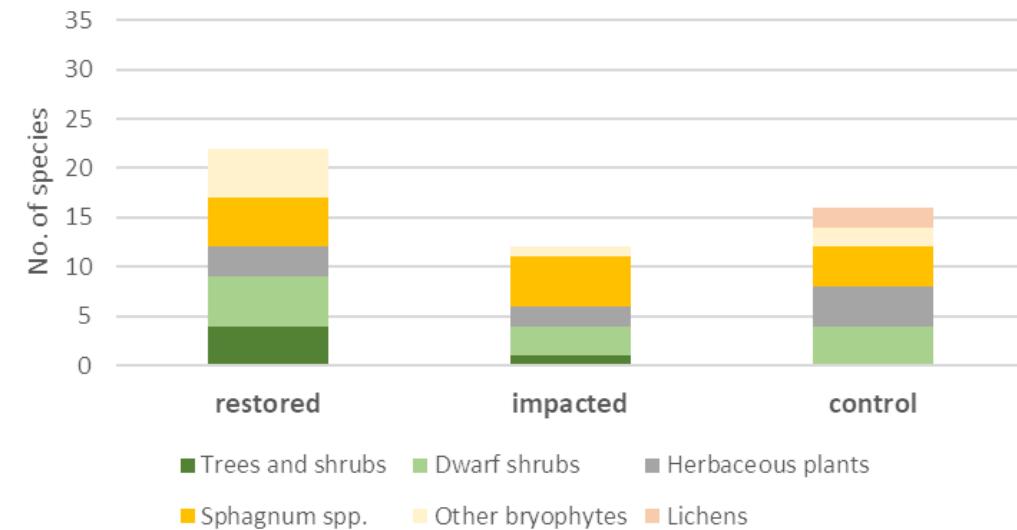
Species richness  
48 species

### Cenas Mire

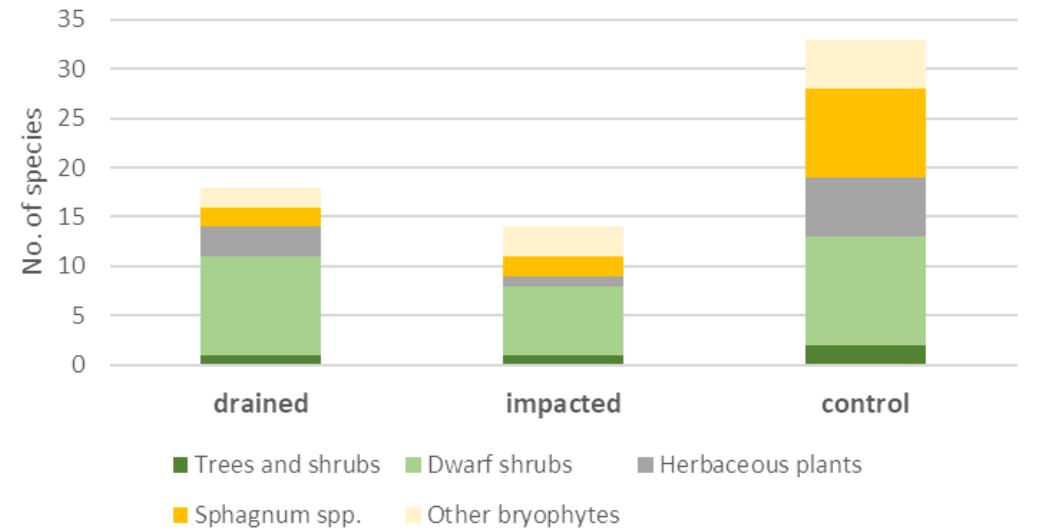


Species richness at water level measurement points

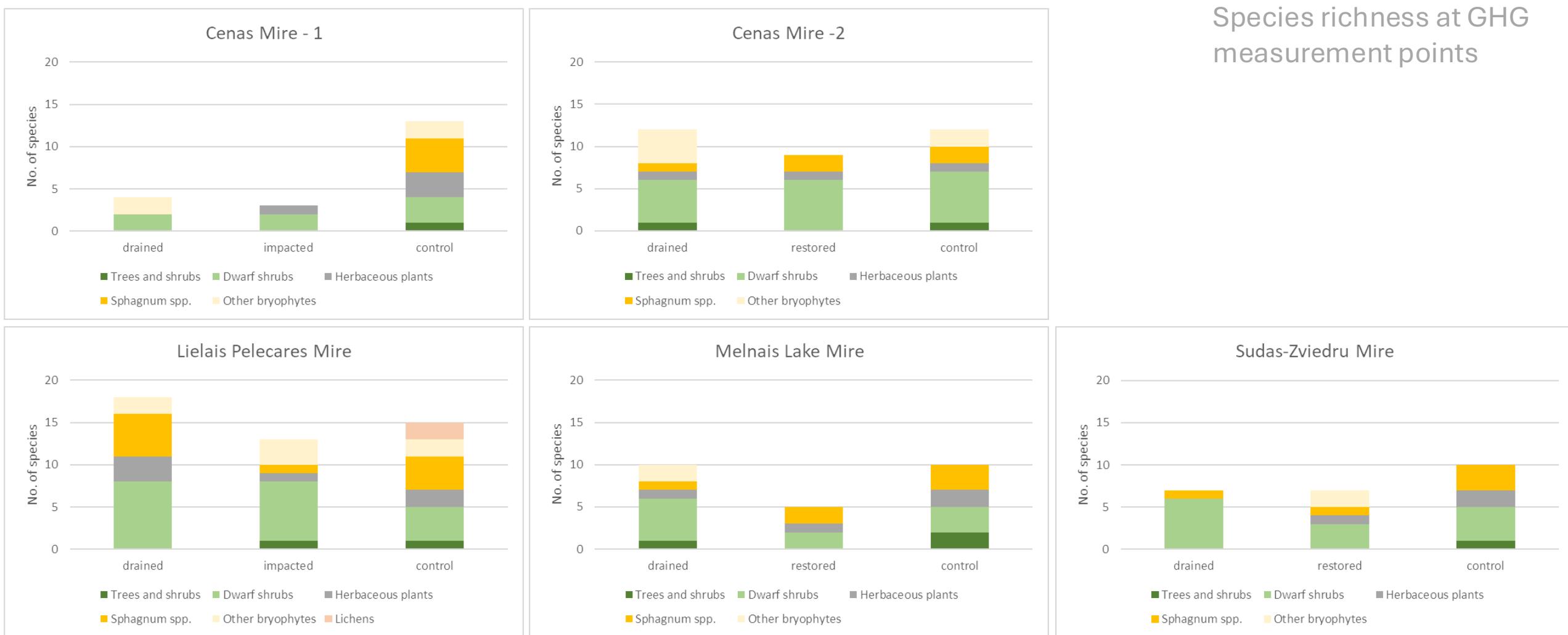
### Sudas-Zviedru Mire



### Lielais Pelecares Mire



## Species richness at GHG measurement points



2014 – 2015 – 2016 – 2018 – 2020 – 2023

Sudas-Zviedru Mire



2014



2015



2016



2018



2020

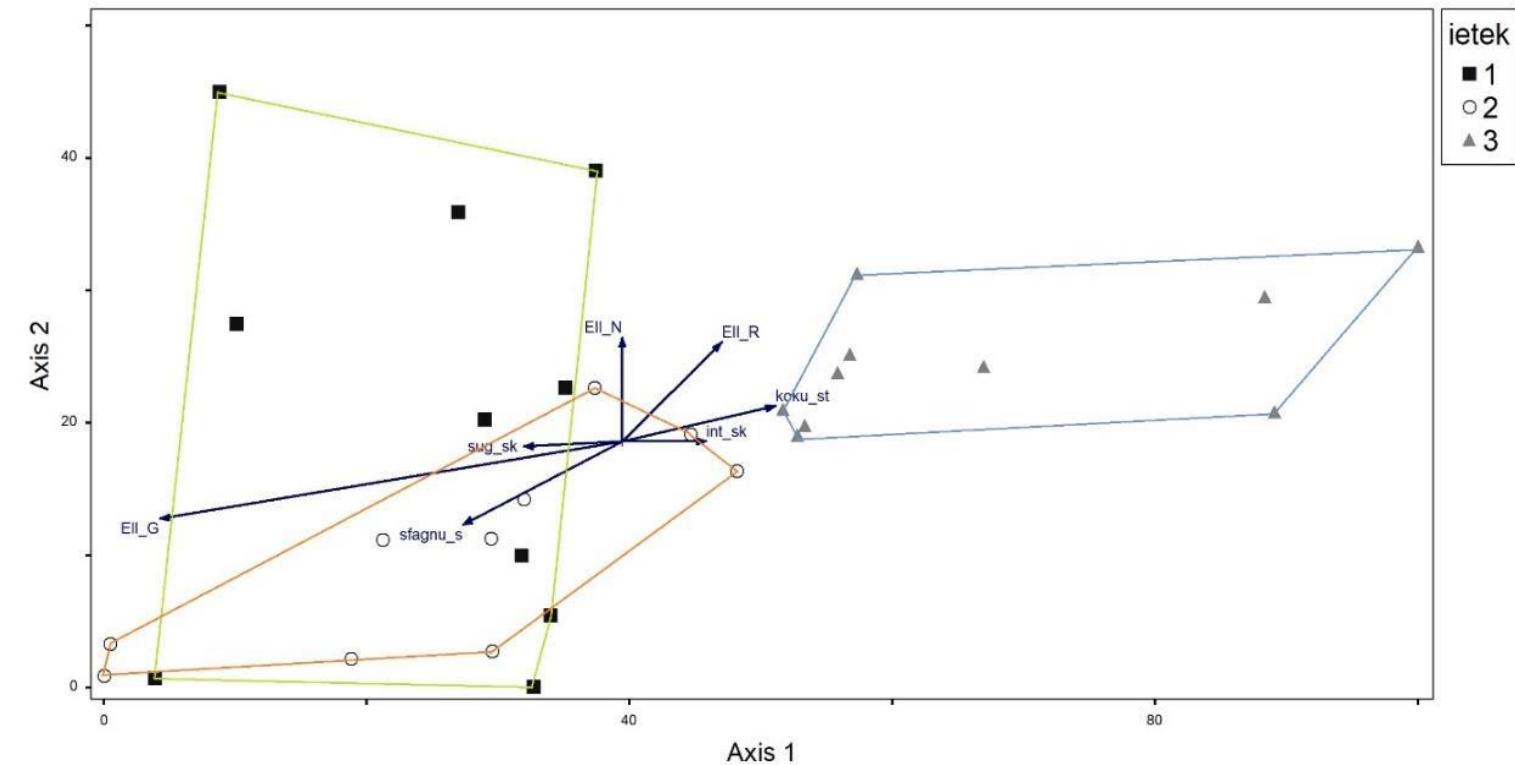


2023

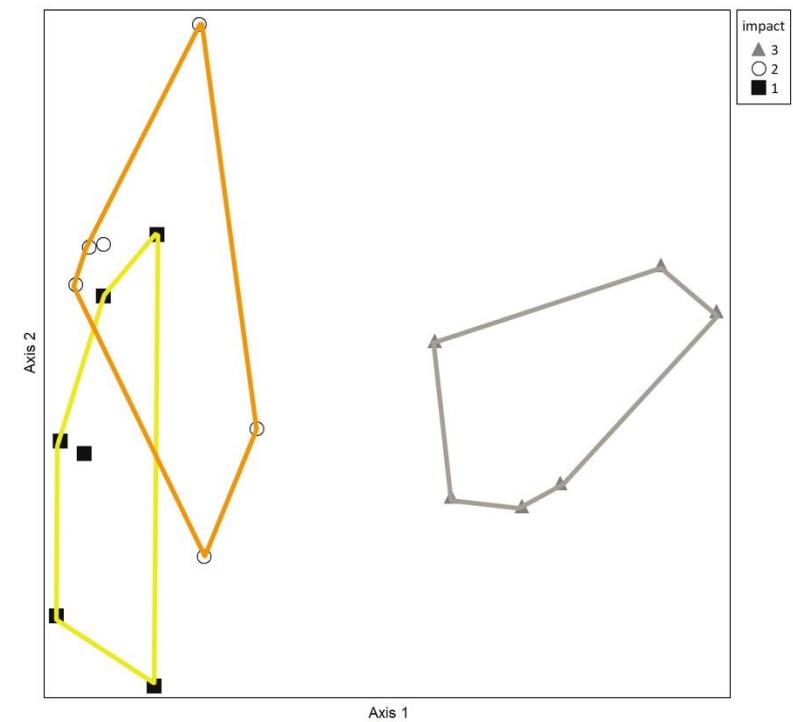
Sudas-Zviedru Mire

## Species DCA ordination

2014

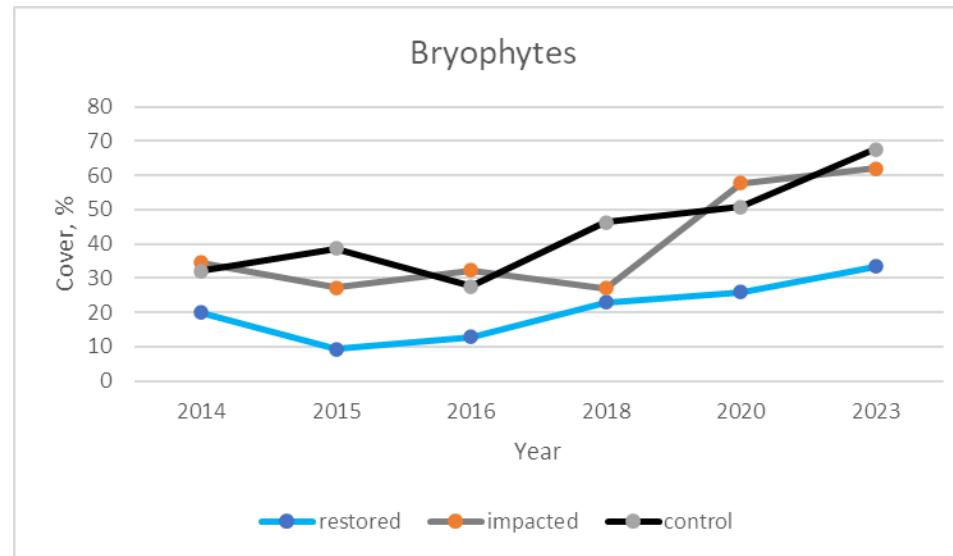
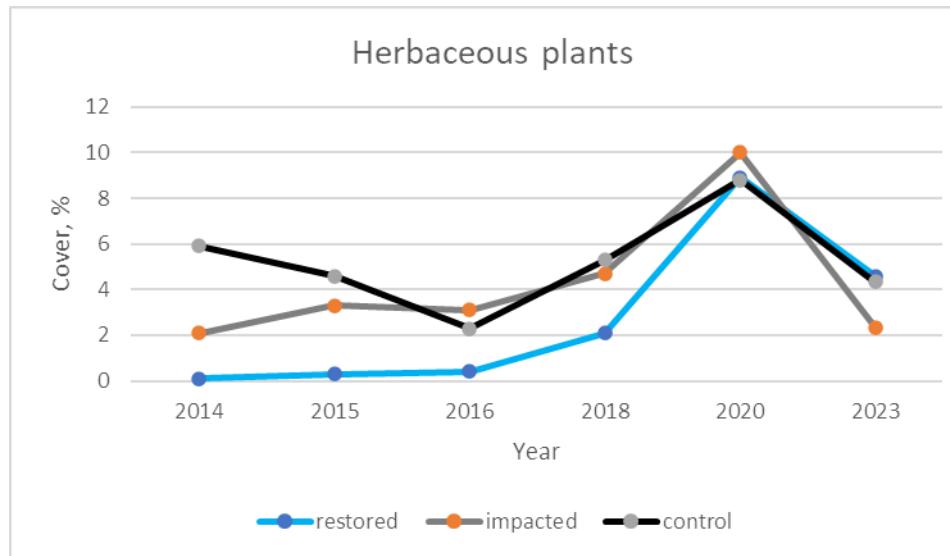
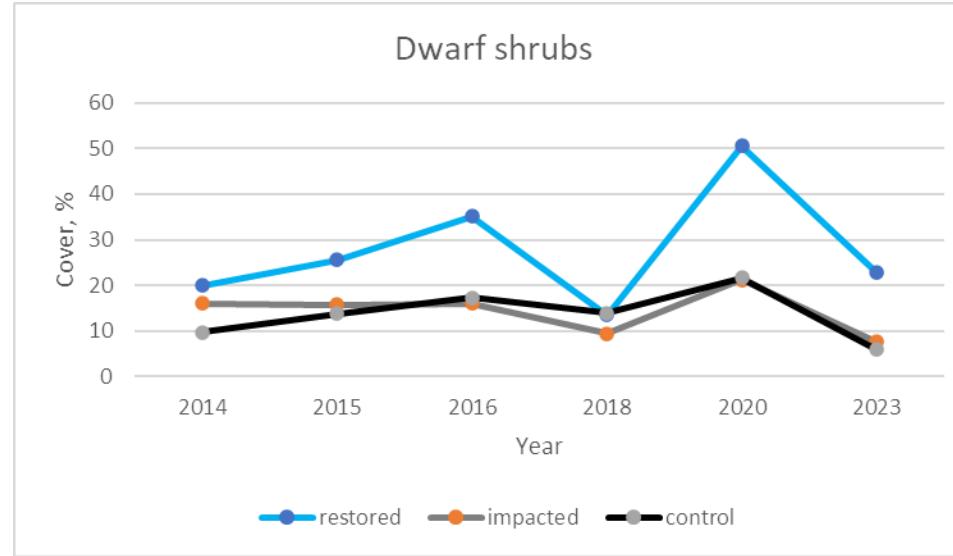
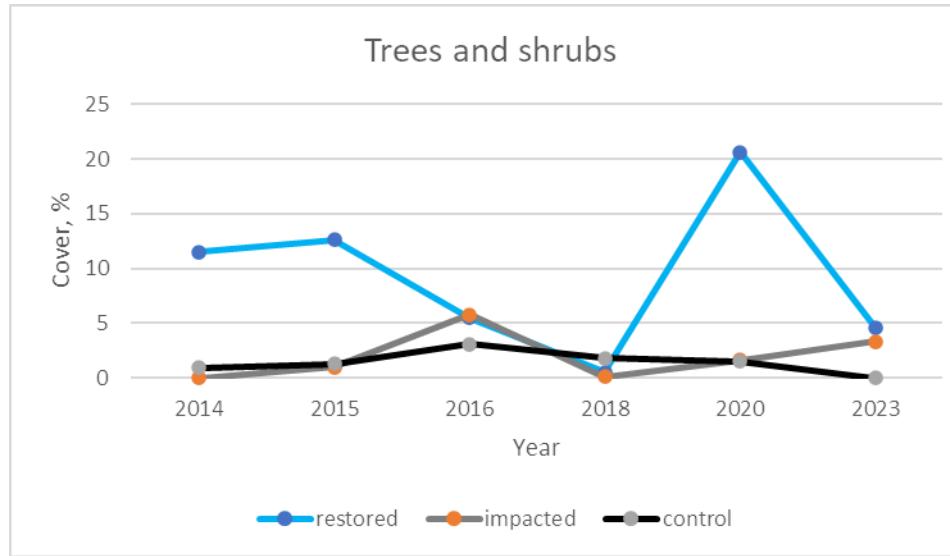


2014–2023



Strazdiņa, Pakalne, Gansone, 2021

## Sudas-Zviedru Mire Species cover



Sudas-Zviedru Mire





VIII international meeting on Sphagnum biology  
September 9-13, 2024  
Trondheim, Norway





*S. molle*  
**EN B2ab(ii,iii)**



*S. inundatum*  
**EN B2ab(ii,iii)**



*S. pulchrum*  
**EN B2ab(ii,iii)**





«Peatland restoration for greenhouse gas emission reduction and carbon sequestration in the Baltic Sea region» (LIFE PeatCarbon, LIFE21 - CCM - LV)

## Vegetation monitoring results in Latvian project sites



Liga Strazdīna



26.09.2024  
Project Steering Group Meeting