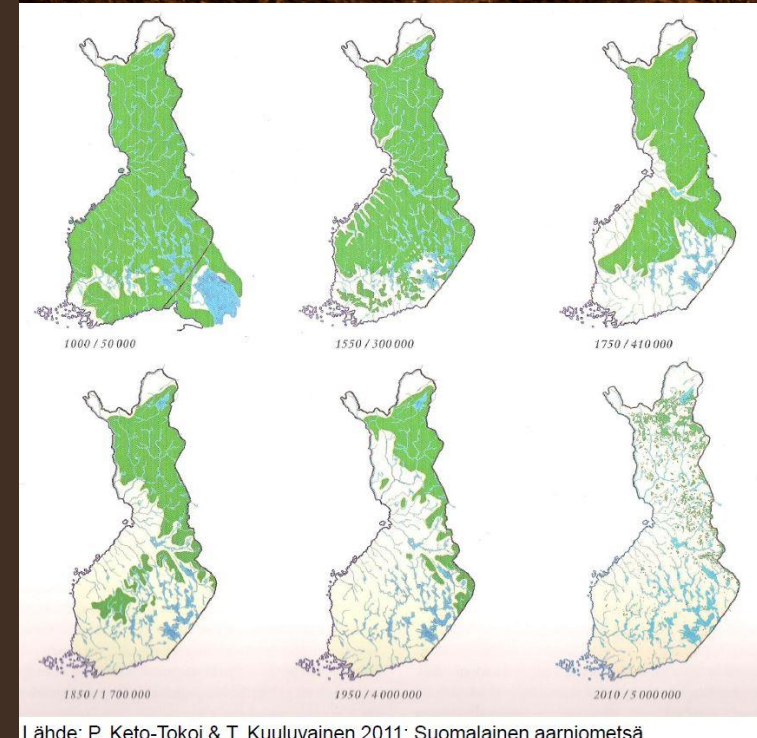
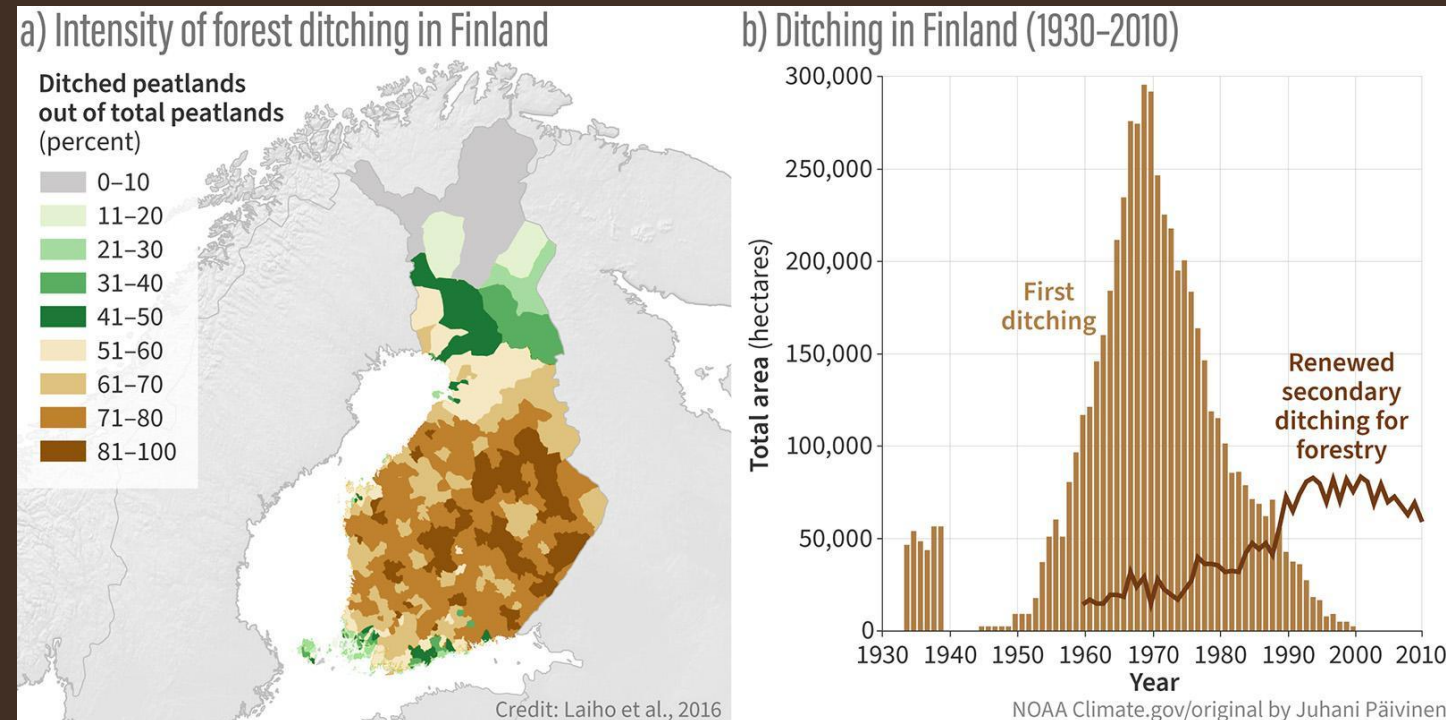


Landscape Rewilding Programme and Snowchange Cooperative

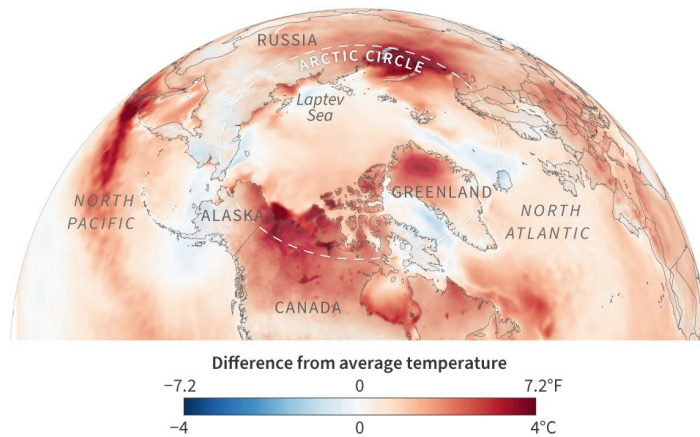


- Snowchange is a non profit Arctic and boreal NGO, founded in 2000
- Landscape Rewilding Programme was initiated in 2017 with Rewilding Europe, EIB and Snowchange and subsequently has grown to be the largest restoration programme in Finland
- Traditional and scientific knowledge-driven peatland & Boreal habitat restoration

Why we restore Boreal peatlands?



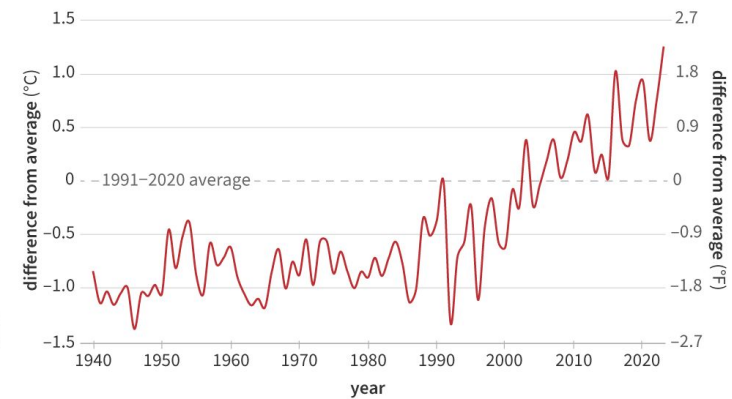
Widespread warmth across the Arctic in summer 2023



Jul-Sep 2023 vs.
Jul-Sep average (1991-2020)

NOAA Climate.gov
Data: C3S ERA5

2023 brought Arctic's hottest summer on record



Jul-Sep average
1940-2023

NOAA Climate.gov
Data: S. Bigalke

First site: Linnunsuo, a degraded peatland and marshmire, 180 hectares



2012



2020




*Long-billed Dowitcher, Terek Sandpiper
and other rare waders*


- Monitoring: Birds: from 2 bird species into 205 species. Special interest: Wood Sandpiper and Northern Pintail as key species.



Snowchange
COOPERATIVE

Norwegian Sea

 Owned by Snowchange

 Concession

Map Satellite



- By June 2025:
- 7500 hectares owned over 150 sites
 - Through land concessions and agreements over 56,000 hectares under rewilding and restoration influence
 - Agreements with the state companies, forest operators, municipalities, private people

Kivisuo, 750 hectares, largest protected area in Finland in 2020 in the sub-Arctic



For example the nesting area of Peregrine Falcon



Practical actions, scales and methods



Small landscape rewilding actions – 1-5 hectare wetlands



Single site actions – example of Hautaneva, 30 hectares middle boreal



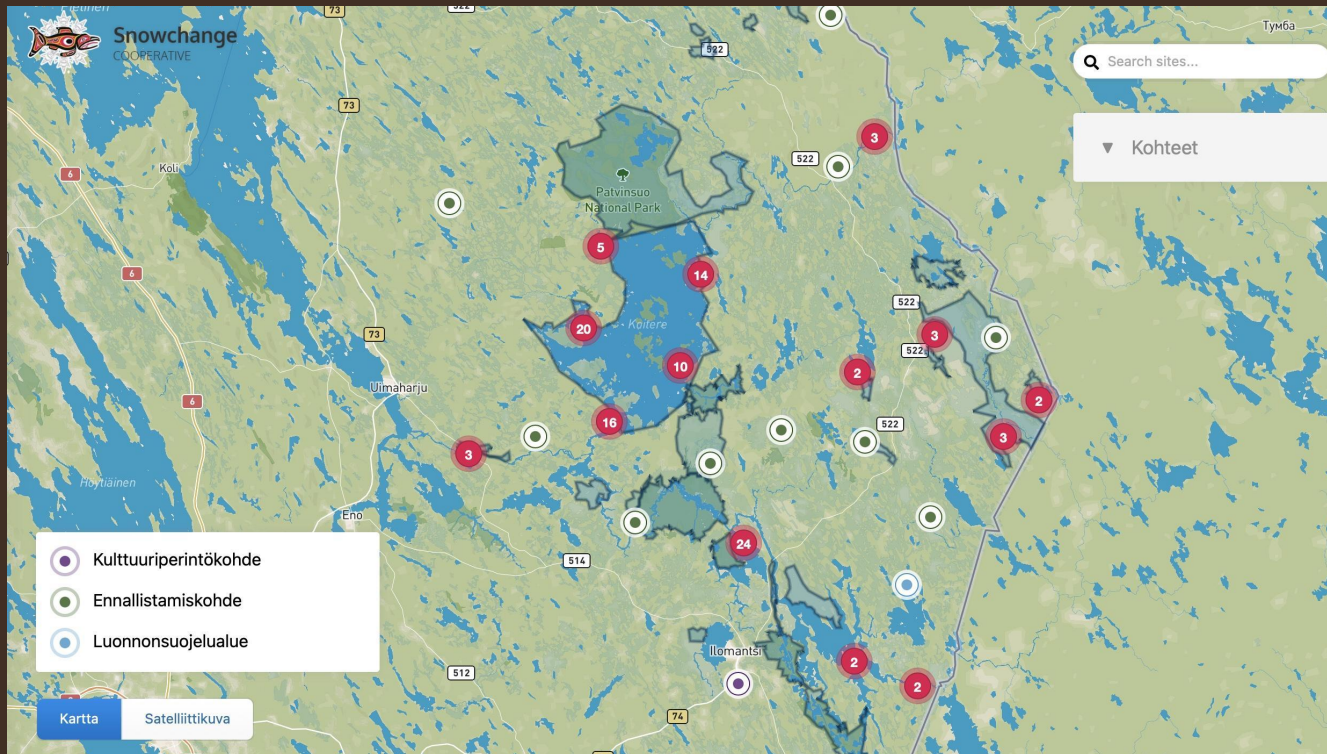
European Golden Plover

Salojenneva, 36 hectares



Keystone species: Southernmost population of Willow Ptarmigan

Catchment Restoration: Koitajoki 6500 square kilometers in North Karelia – the ELSP Project: Koitajoki – Land of Epic Poetry



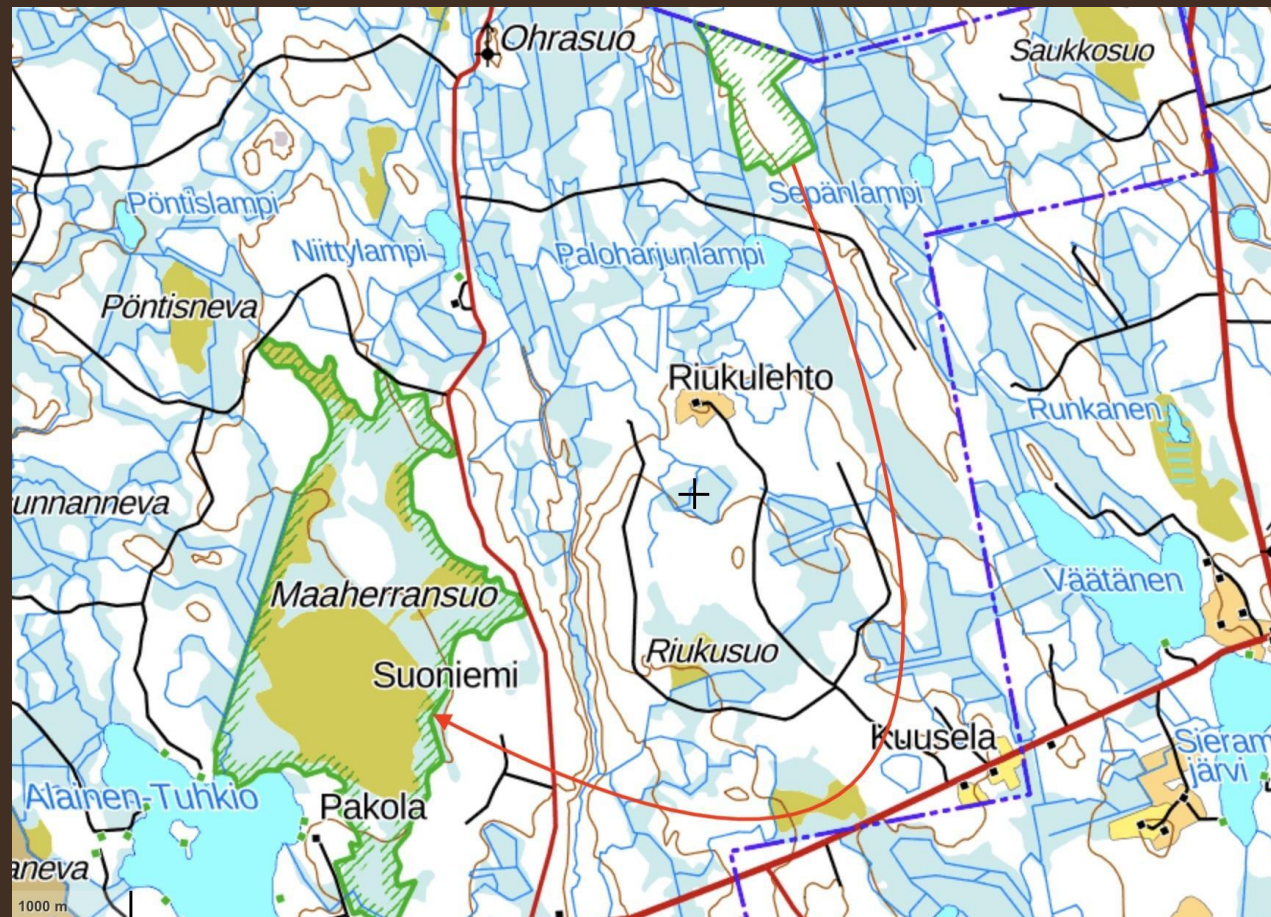
Methods – Larger-scale peatland restoration in Koitajoki Watershed





Interconnections to Natura 2000 Sites – Example of Ähtäri

- Already established Maaherransuo, 418 hectares, a Natura 2000 site, for birds main species waders, cranes etc.
- Northeast of Maaherransuo a OGF protection area
- Establishment of 66 hectare ecological corridor through land purchases, including Oravasuo, 20 hectares





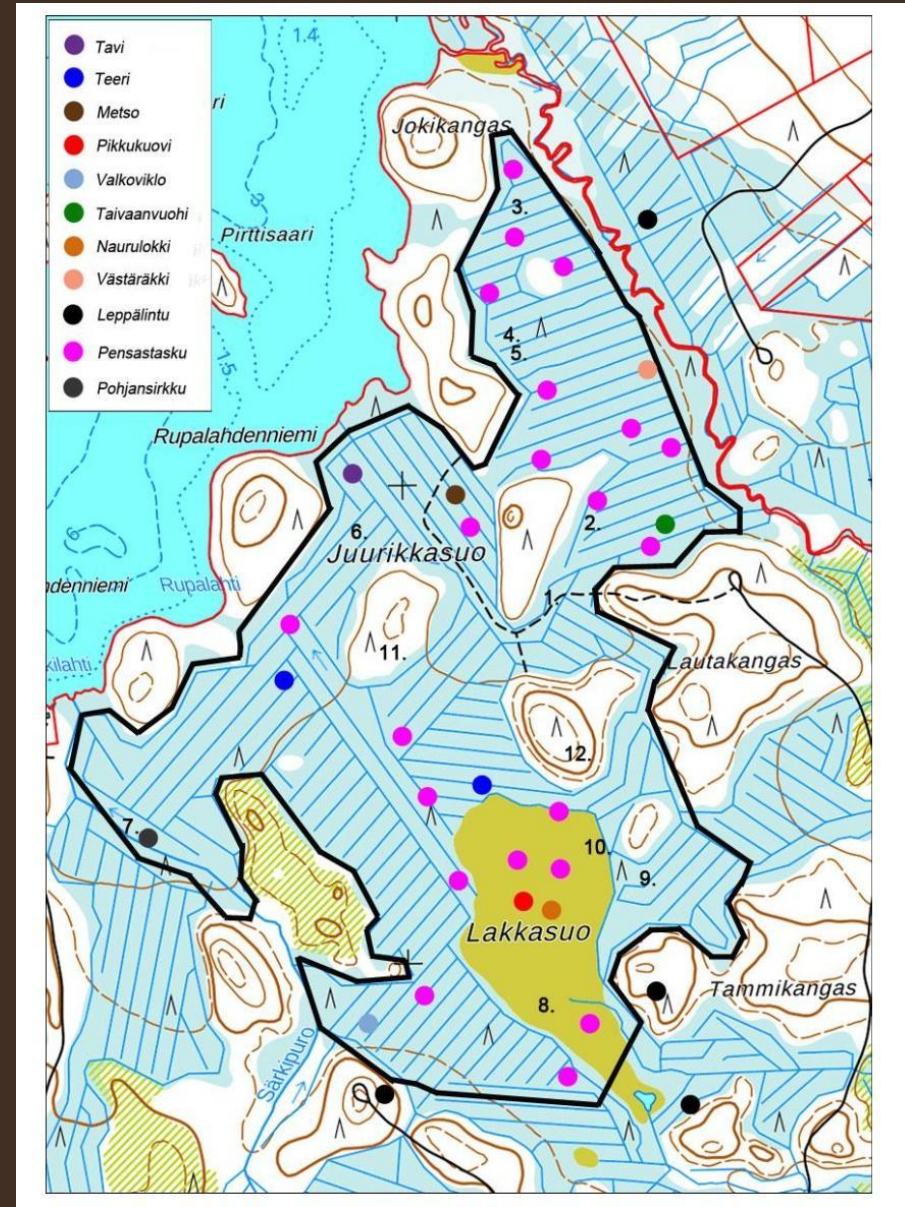
Science and local knowledge intertwine in large scale monitoring



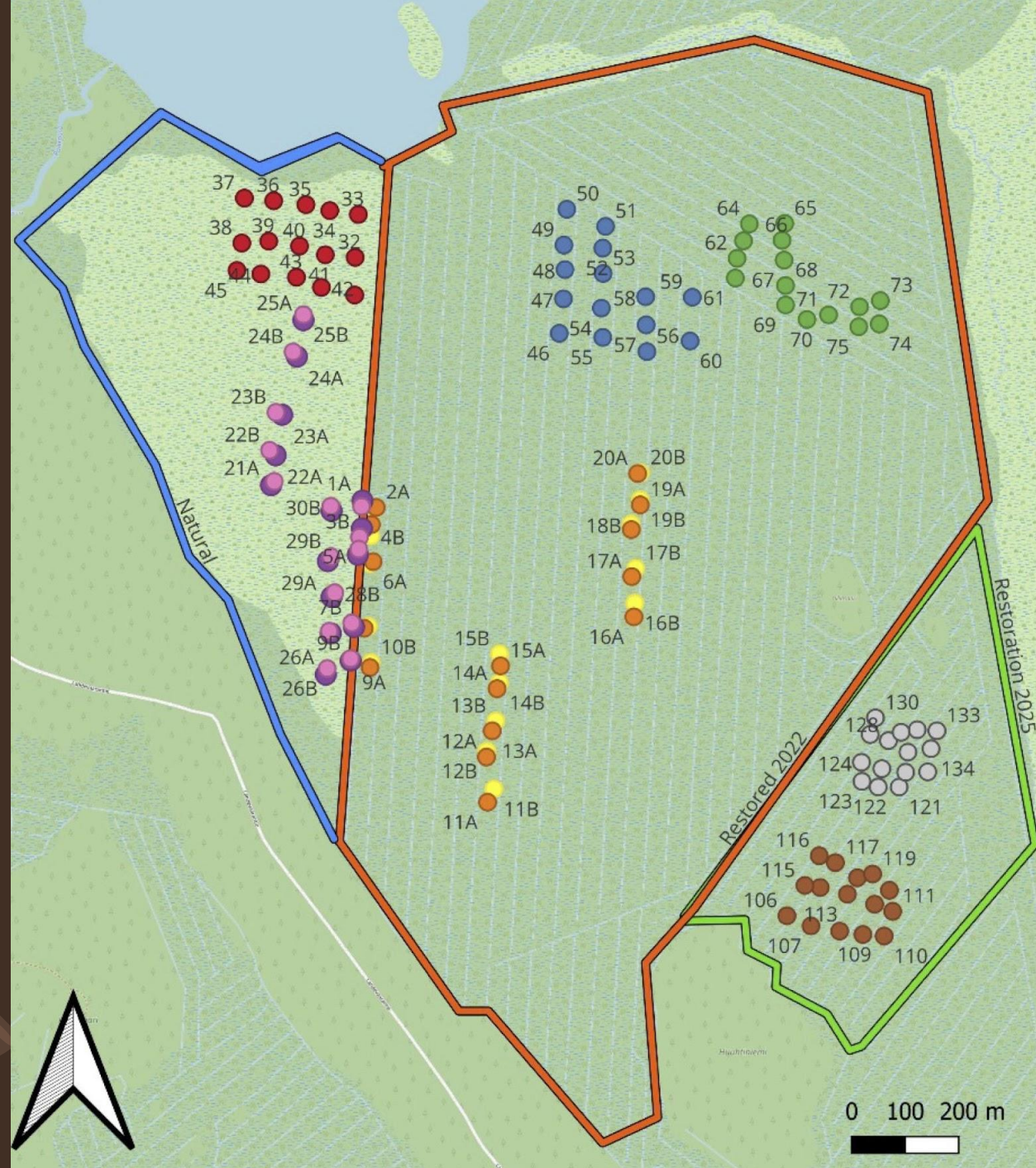
Birds:

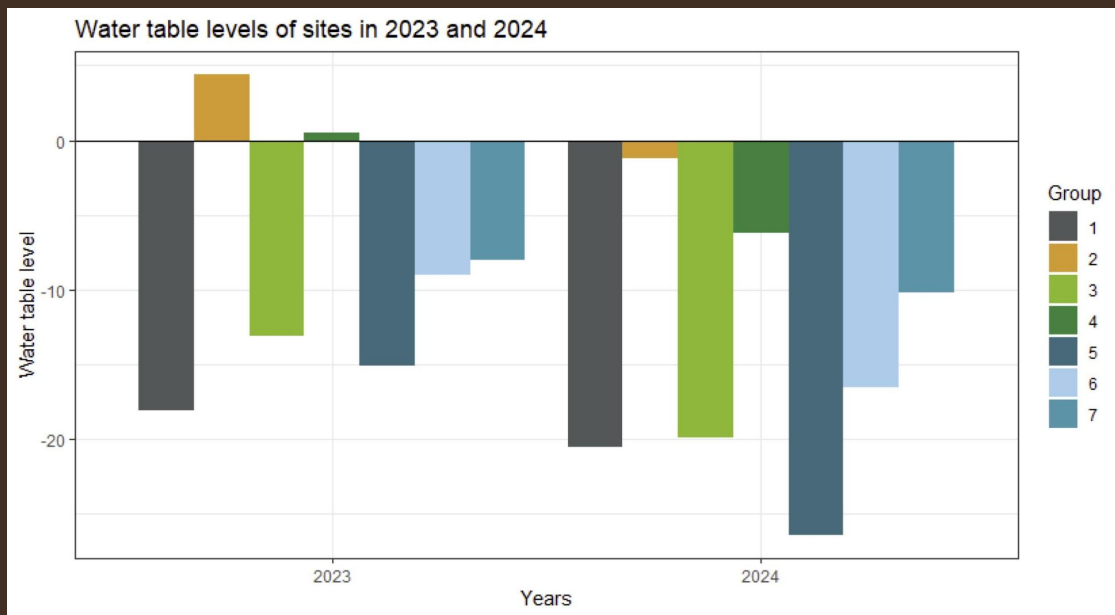
Transsects, Nesting Locations

-an example from a boreal peatland of Lakkasuo, Ilomantsi



Rahesuo mire complex under restoration





Site	Variables	May 2024	November 2024
Likosärkkä	Aluminium (µg/l)	95	180
	COD-Mn (mg/l)	15	13
	Color (mg/lPt)	260	230
	Conductivity (µS/cm)	26	31
	Cu (µg/l)	0,8	<1
	DOC (mg/l)	15	9,2
	Iron (µg/l)	9700	20000
	Mn (µg/l)	210	250
	Organic matter (mg/l)	11	35
	pH	6,9	6,7
	Total Nitrogen (µg/l)	390	930
	Total Phosphorous (µg/l)	25	30
	Turbidity (FNU)	14	11



Vegetation and water level monitoring in Valkeasuo 2024

- Logger
- Water well
- Degraded rich fen
- Degraded Eriophorum pine bog
- Moderately disturbed raised bog
- Natural oligotrophic flark fen
- Degraded oligotrophic flark fen

The River Guardian Programme



- **Core community-based environmental observations:**
 - Collection of critically important environmental information - detection of endangered willow ptarmigan stocks and populations, extremely endangered salmonids and early detection of the wild forest reindeer (Rangifer) movements in the Koitajoki basin in addition to local status and trends of animals, fish and birds
- **Oral histories and backcasting change:**
 - Using land practices, place names and oral histories the Koitajoki ecological baselines and histories have emerged and positioned present into a continuum of little-known pasts
- **Cultural indicators:**
 - Linguistic, cultural and biological indicators within traditional knowledge has helped whitefish (Coregonus) habitat and restoration actions pointing to the role of dialects and local concepts that convey TEK