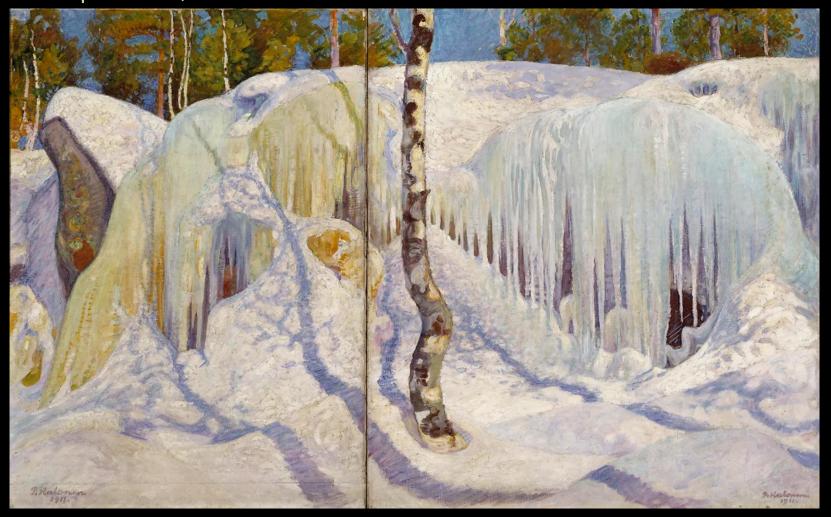
BERRIES, BIRCHES, BOGLANDS

Prospects for the Plant Humaníties in Finland



JOHN C. RYAN, BIODIVERSE ANTHROPOCENES FELLOW, APRIL-JUNE 2023

Southern Cross University & University of Notre Dame Australia

OVERVIEW

- 1) Introduction: Defining the Plant Humanities
- 2) Key Theories and Methodologies
- 3) The Narrative Basis of the Field
- 4) Prospects for the Plant Humanities in Finland
- 5) Berries
- 6) Birches
- 7) Boglands
- 8) Conclusion: Narrating Plant Life

WHAT IS THE PLANT HUMANITIES?



Pekka Halonen, 'Pioneers in Karelia' (1900), 200 × 237cm, oil on canvas, Finnish National Gallery

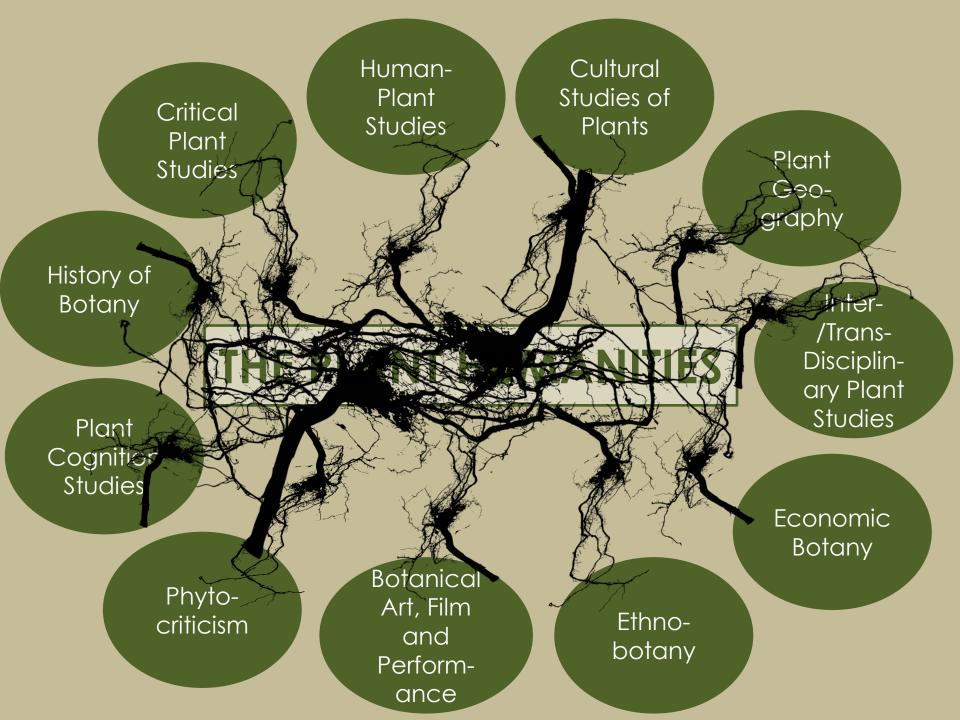


Torsten Wasastjerna, 'Bog in Lapland' (1892), 21.5 × 31.5cm, oil, Finnish National Gallery

WHAT IS THE PLANT HUMANITIES?

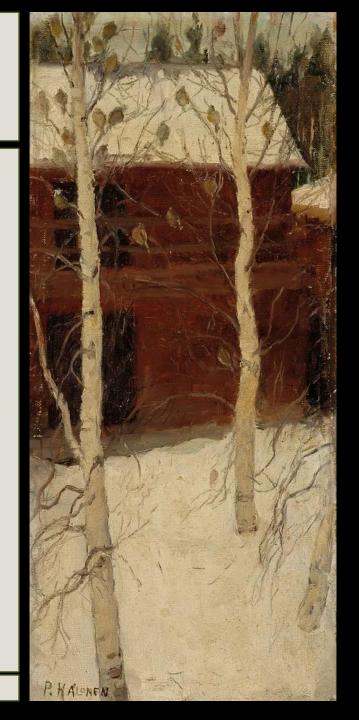


- the field of the plant humanities has gained momentum over the last five years as an inter-/transdisciplinary domain of scholarship concerning plants and their multifaceted intersections with humans.
- the term plant humanities denotes 'humanistic modes of interpretation' in the study of plants, society, culture, history, art, literature, and other disciplines (Batsaki 2021, 2)
- plants offer 'remarkable scope for research and interpretation due to their global mobility and historical significance to human cultures' (Dumbarton Oaks Plant Humanities Initiative 2023, para. 1)



NEURO-BOTANY: A NEW PARADIGM WITH OLD ROOTS

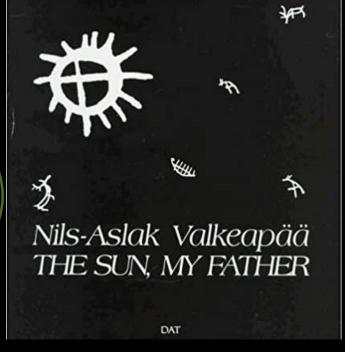
- pea seedlings and mimosa plants learn by association (Gagliano et al. 2014, 2016, Markel 2020)
- common mustard displays multigenerational inheritance of stress memory (Bilichak et al. 2015, Yadav et al. 2022)
- various species have the ability to 'forget' memories with potentially harmful effects on subsequent generations (Crisp et al. 2016)
- plants interpret sensory data to negotiate environments (Chamovitz 2012, Arimura 2021)
- arabidopsis enacts forms of altruism including care for kin and non-kin (Bais 2015, Dudley 2015, Murphy 2017)
- wooded web or rhizosphere (Gross 2016, Simard 2018, 2021)



THE SUN, MY FATHER (1991) NILS-ASLAK VALKEAPAA

66. time for thoughts to know in time the creek's flute the wind spoke conversed plays the tundra the times the stones lichen on the pebbles, the reindeer moss opens itself moves comes alive and if I did not know the language myself they told me whispered poke made a v





KEY THEORIES AND METHODOLOGIES

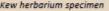


- Theories of agency, embodiment, language, narrativity, sensoriality, subjectivity and temporality in plants (Marder 2013, Nealon 2015, Ryan et al. 2017, 2021)
- Historical and archival approaches (Driver and Cornish 2021, Driver et al. 2022)
- Ethnography (interviewing, participant observation) (Hartigan 2017 'How To Interview a Plant')
- Textual and discourse analysis (Ryan, 2018, Meeker and Szabari 2019)
- Digital plant humanities (Gianquitto and LaFauci 2022, Arthur and Ryan 2023)
- Creative, arts-based, practice-led approaches (Arlander 2019, 2020, Ryan 2020)
- Collaborative multispecies frameworks (Kealey 2019, Rezvani 2022)

Ilkka Halso, 'Restoration' (2000), 132.5 × 100cm, photograph

Practice & Research in Plant Humanities







Burchell colour chart 1820s (Kew)



Lindsay Sekulowicz, Watercolour 2017

Practices of collecting, making, documenting and analysing plants and plant-based artefacts have been the subject of much research in the Plant Humanities – for example, studies of the visual culture of botany (*Making Visible: The visual and graphic practices of the early Royal Society*, Sachiko Kusukawa, University of Cambridge, AHRC).

In addition to this concern with practices as objects of study, some Plant Humanities projects deploy drawing, writing and performance as practice-based methods of research. Examples include:

Sensing and presencing rare plants through contemporary drawing practice Sian Bowen, Northumbria University, Leverhulme Trust

Collection to source: cosmology and ethnobotanical artefacts of the Northwest Amazon Lindsay Sekulowicz, University of Brighton with RBG Kew, AHRC

Changing treescapes: making visible the cultural values at risk from tree pests and diseases through arts approaches

Julie Urquhart, University of Gloucestershire, AHRC

Some Recent Research Projects on Biocultural Collections



Cotton from Guyana, 1880 (Kew collections)



Parts for a violin from Bavaria, 1861 (Kew collections)



Rain cape from the Philippines, 1985 (Kew collections)

Biocultural collections are repositories for plants and animal specimens of use to people, potentially or actually. Typically they include both specimens and products, whether hand or machine-made, along with materials such as plant fibres and extracts. In the nineteenth and twentieth centuries, economic botany collections were found in many museums and botanic gardens, providing an archive of resource extraction. Today, with some exceptions (notably at Kew), such collections have been dispersed or renamed. From an arts and humanities perspective such assets provide the basis for interdisciplinary research on the intellectual, economic, cultural and scientific aspects of resource use - past, present and future.

Recent research projects on biocultural collections include:

Situating Pacific barkcloth production in space and time
Frances Lennard (University of Glasgow), Adrienne Kaeppler (Smithsonian) and Mark Nesbitt (Kew), AHRC research grant

Mobile museum: economic botany in circulation Felix Driver (Royal Holloway) and Mark Nesbitt (Kew), AHRC research grant

Digital repatriation of biocultural collections: connecting scientific and indigenous communities of knowledge in Amazonia

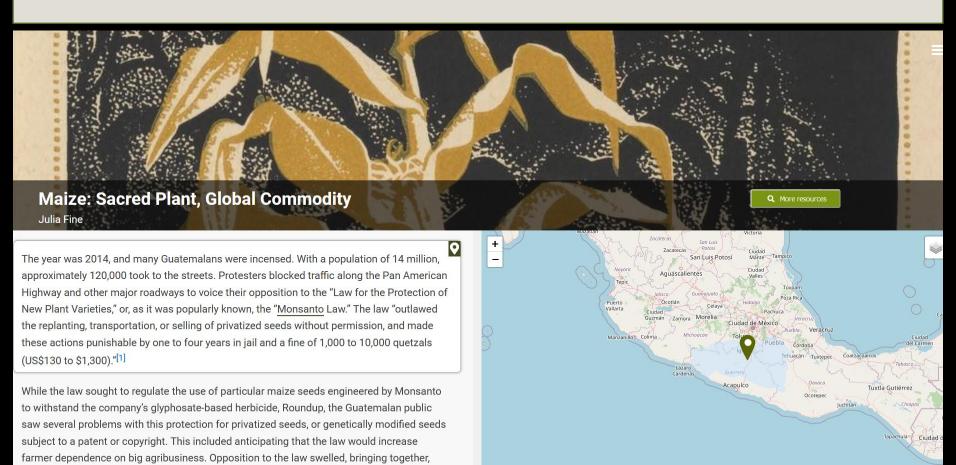
Luciana Martins (Birkbeck), British Academy research grant

Seeds for survival: a global history of seed banking
Helen Curry (Cambridge), Wellcome Trust Award in the Humanities & Social Sciences



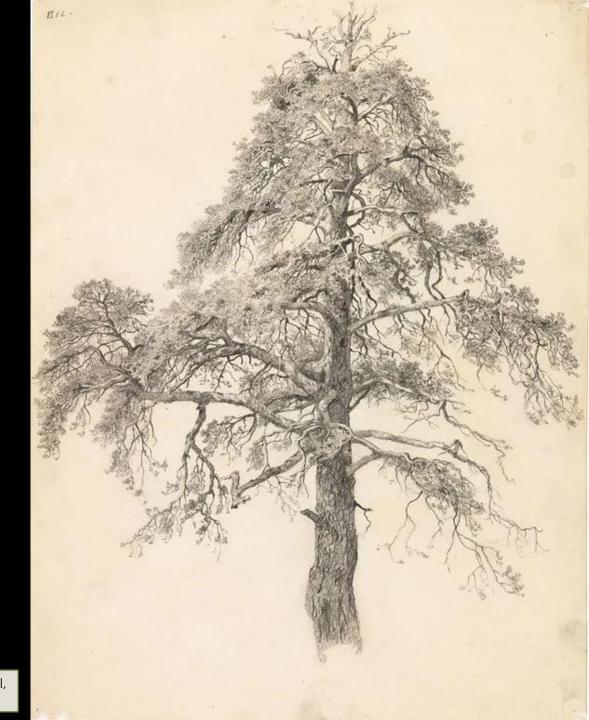
Annette Arlander, 'Meetings with Remarkable and Unremarkable Trees' (2018–19), https://annettearlander.com

NARRATIVE BASIS OF THE PLANT HUMANITIES



Leaflet L@ OpenStree

according to cultural anthropologist Liza Grandia, a motley crew of protestors, including "peasant federations, health workers, biologists, Maya spiritual leaders, environmentalists,



Eero Järnefelt, 'Pine Top' (c. 1900), 40.5 × 31cm, pencil, Finnish National Gallery



Eero Järnefelt, 'Pond Water Crowfoot' (1915) (left) and 'Frog With Marsh Marigold' (1915) (right)

THE PLANT HUMANITIES IN FINLAND



Ilkka Halso, 'Roller Coaster' (2004), 100×134cm, photograph, Finnish National Gallery

THE PLANT HUMANITIES IN FINLAND: POSSIBILITIES FOR COLLABORATION

Museums

- National Museum of Finland
- Finnish Museum of Natural History
- Finnish Museum of Photography
- Regional and specialist museums

Galleries and Art Institutes

- Finnish National Gallery (online)
- Ateneum & Kiasma

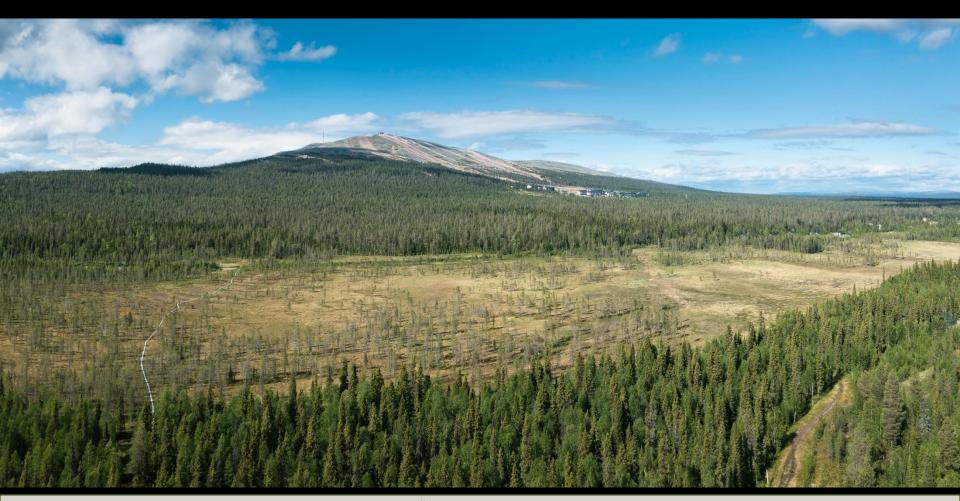
Botanical Gardens

- Kaisaniemi Botanic Garden
- Kumpula Botanical Gardens
- Botanic Garden of University of Turku
- University of Oulu Botanical Gardens
- Arktikum Arboretum

Herbaria

- LUOMUS Botanical Collection (Helsinki)-
- Herbarium TUR (Turku)_
- Nylander Herbarium (Lichens, Fin Museum)-





'Takavuoma Bog and Ylläs Fell in Äkäslompolo, Lapland' (2021), Wikimedia Commons



'Yllästunturi Visitor Center Kellokas' (2023), J. C. Ryan





'Yllästunturi Visitor Center Educational Display' (2023), J. C. Ryan



'Yllästunturi Visitor Center Wild Berry' (2023), J. C. Ryan



'Yllästunturi Visitor Center Tussock Cottongrass Eriophorum vaginatum' (2023), J. C. Ryan

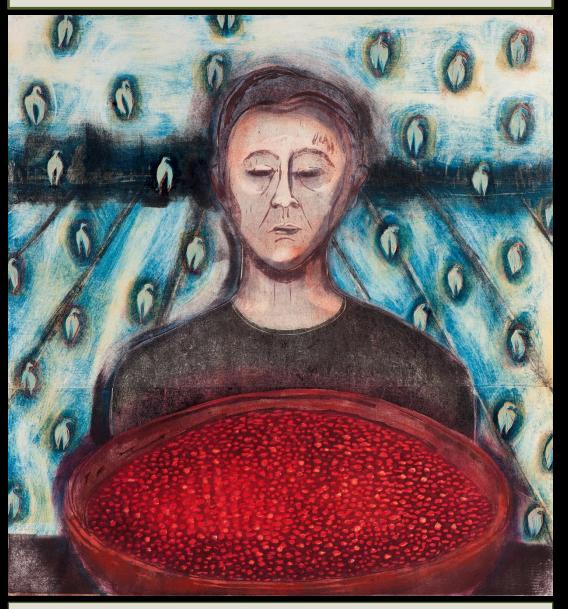
THE PLANT HUMANITIES IN FINLAND: POSSIBLE RESEARCH TOPICS (TOP 20)

- 1) Traditional botanical knowledge and practices of Sami people
- 2) Representations of plants in literature, film, performance, music & popular culture
- 3) Representations of plants in art, illustration, photography, craft & digital media
- 4) Historical depictions of Finnish species by botanists, ecologists & naturalists
- 5) Histories of plants, human-flora traditions & collecting institutions
- 6) Role of plants in folklore, mythologies & biocultural knowledge systems
- 7) Creation of digital collections of Finnish botanical heritage
- 8) Role of plants in religious traditions & spiritual ceremonies
- 9) Contribution of vernacular plant nomenclatures to Finnish dialect formation
- 10) Plant migration across national borders (Finland, Sweden, Norway & Russia)
- 11)Trans-border human-plant interactions (Karelia, Lapland & Sápmi)
- 12) Citizen science, human migration & plant knowledge networks
- 13) Interaction between plants, politics, governance & nationalism
- 14) Local food cultures, seed cultures, wildcrafting & other plant-focused practices
- 15) Plant-centric seasonal events (e.g., World Championships of Berry Picking)
- 16) Specific cultures of plants (e.g., Cloudberry culture in Finnish Lapland)
- 17) Plants, wellbeing, recreation & tourism (e.g., sauna whisk, vihta, usually made from birch twigs)
- 18) Humanistic & arts-based interventions in botanical conservation
- 19) Anthropocene impacts on human-plant traditions and relations in Finland
- 20) Mourning, grieving & solastalgia associated with plant diversity loss



University of Oulu Botanical Garden, May 2023, photos by J. Ryan

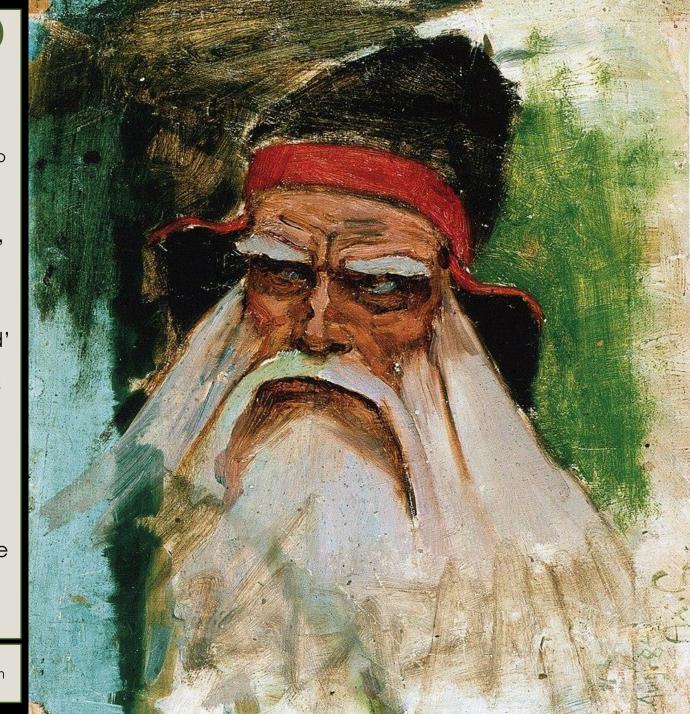
BERRIES



Heli Kurunsaari, 'One Evening' (2016), 100 × 94cm, woodcut

The Kalevala (1835)

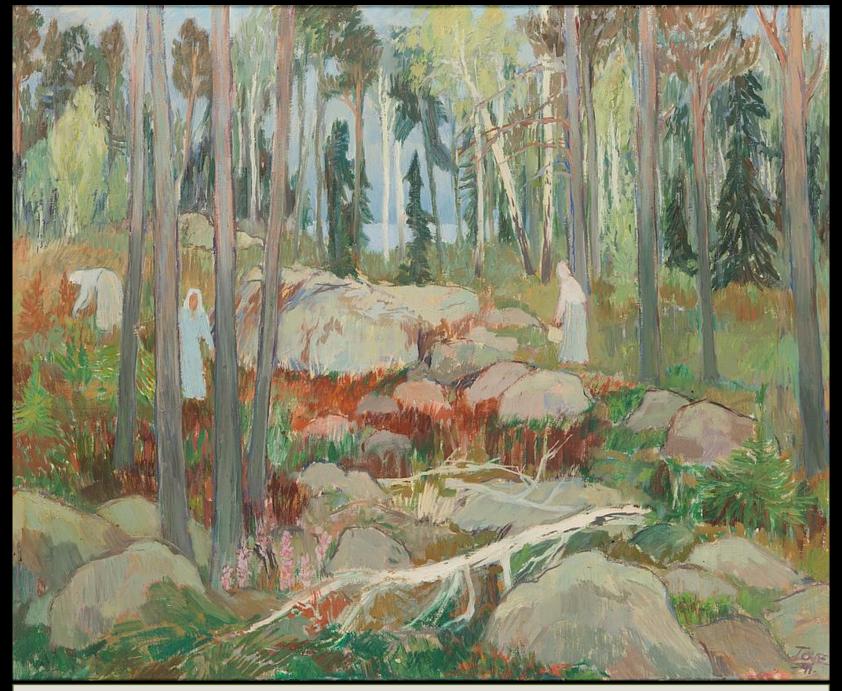
- 'Berries grow on every mountain' (Canto III)
- 'Yield the ripe, nutritious berries' (Canto III)
- 'In the happy days of childhood / Hunting berries in the coppice' (Canto IV)
- 'Lest the harvest be ungarnered / Lest the berries be ungathered' (Canto X)
- 'In the marshes berries plenty / Strawberries upon the mountains' (Canto XI)
- Beautiful the mountain-ashes, / Beautiful their leaves and flowers, / Still more beautiful the berries' (Canto XXIII)



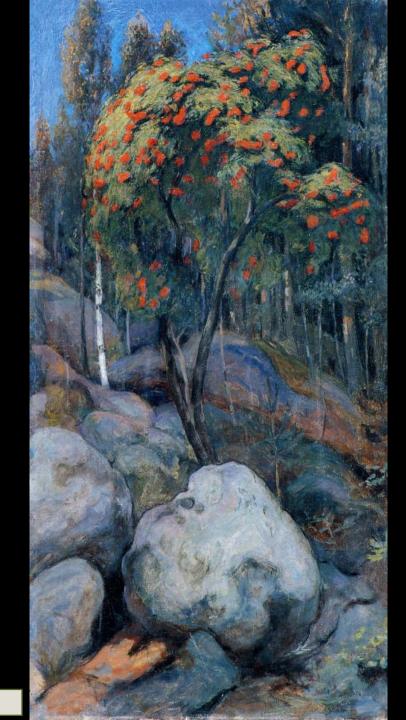
Akseli Gallen-Kallela, 'Head of Väinämöinen' (1895), 27 x 24cm, oil on canvas



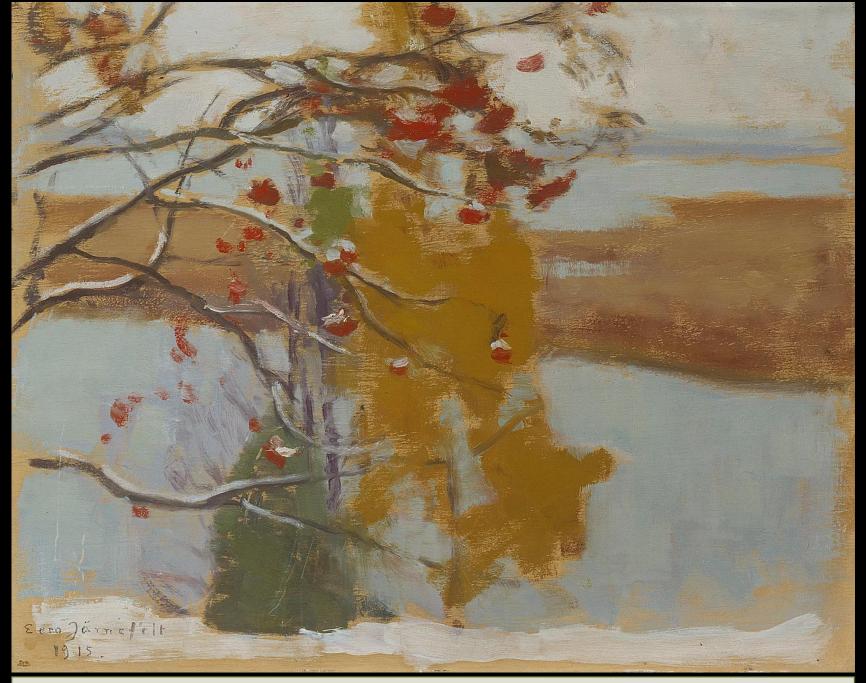
Eero Järnefelt , 'Berry Pickers' (1888), 45.4 x 69.7cm, oil on canvas



Tove Jansson, 'The Berry Pickers' (1941), 60 x 73 cm, oil on canvas

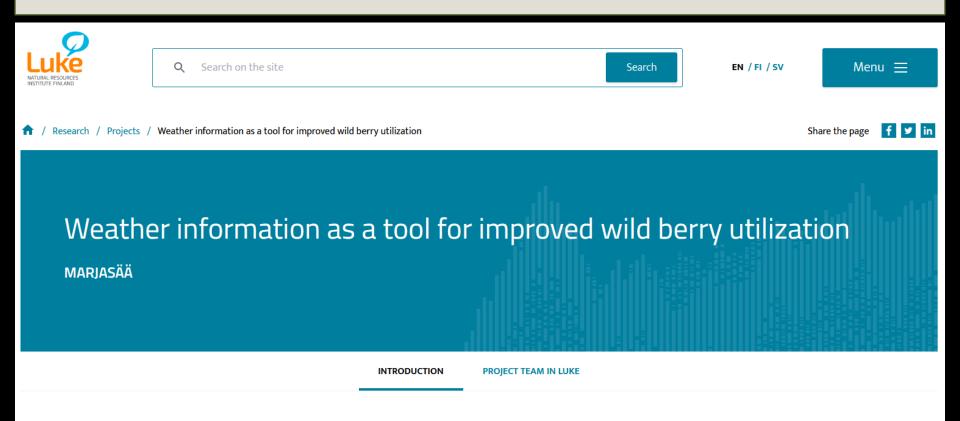






Eero Järnefelt, 'Rowan Berries' (1915), 33.5 × 42cm, oil on wood, Finnish National Gallery

NATIONAL WILD BERRY MONITORING

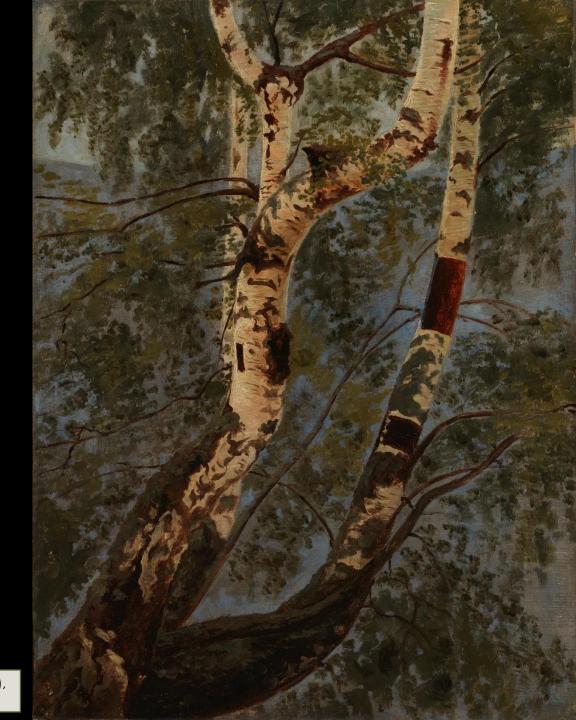


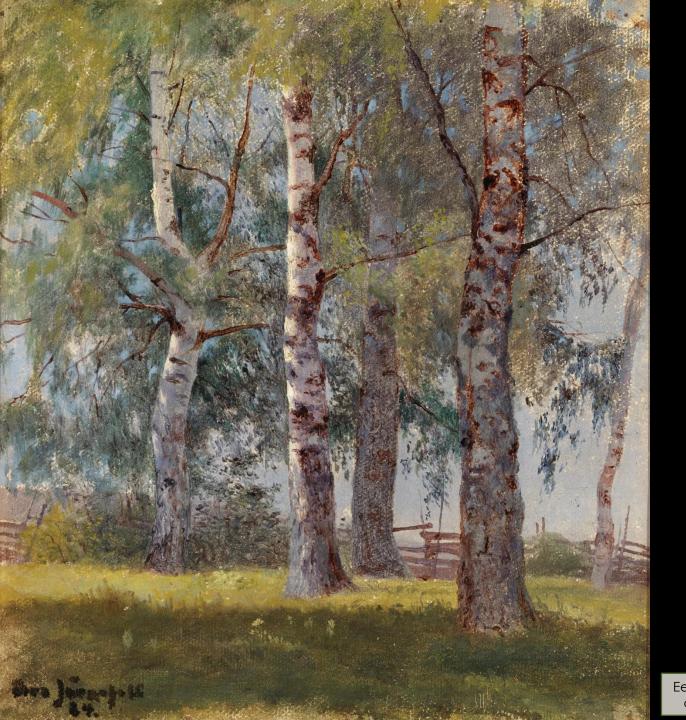
By utilizing the wild berry yield monitoring data of the Natural Resources Institute and the meteorological data of the Finnish Meteorological Institute, the effects of weather factors on the yield formation of wild berries (blueberry, lingonberry, cloudberry) are modeled. The yiled models are further processed into map data, by using

Project duration 1.1.2022-31.12.2023

BIRCHES



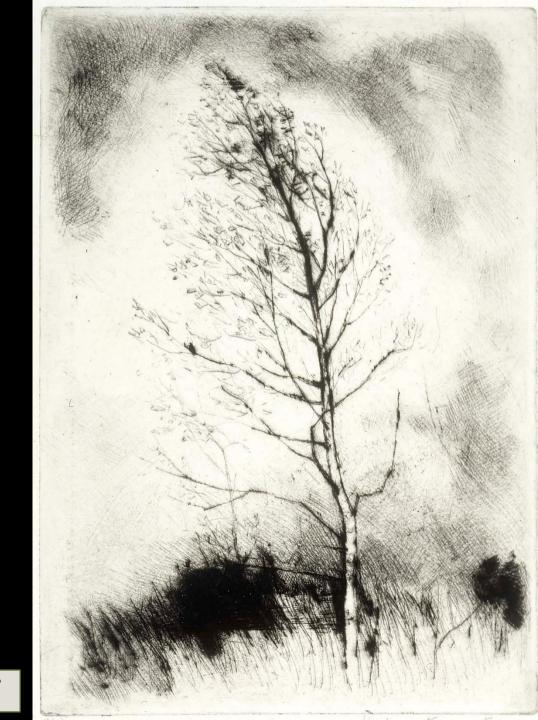




Eero Järnefelt, 'Koivuja' (1884), 24×22cm, oil on canvas, Finnish National Gallery

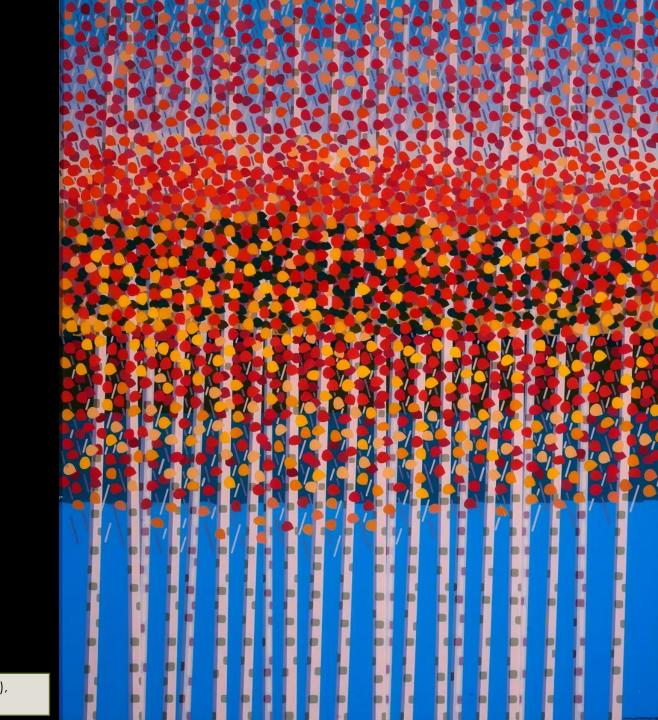


Magnus Enckell, 'Birches in Vääksy' (1919), 60.5 × 74cm, oil on canvas, Finnish National Gallery



Helmi Kuusi, 'Koivu ja pilvi [Birch and Cloud]' (1965), 33.4×28.9 cm, drypoint print, Finnish National Gallery

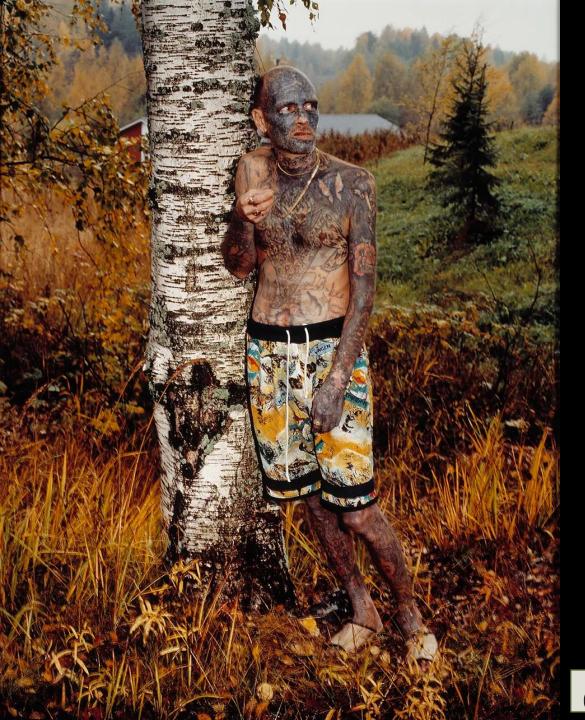








Jorma Puranen, 'From the series Imaginary Homecoming: Untitled' (1991), 38cm, photography, Finnish National Gallery



Jouko Lehtola, 'Tommi from the series Marked Skin' (1999), 100×80cm, photograph, Finnish National Gallery



Janette Holmström, 'Sarjasta Katkos (puut)' (2021), 105x157cm, photography, Finnish National Gallery

the sun
through the cloth
ribbons of light
the birch shadows
ripple
the cloth into a yoik
the face of the tundra

I knew
I know

540 the low grown arctic birch the hidden shadows of the thickets the excitement of the golden plover to the tundra's windy sea

545. the sun was big and red
warm and adorning, illuminated
our heart's moor
and we heard, it shone
smiling to the willow trunk
grass growing on the slopes, bursting buds
pushing sap
below the birch bark
the blood's vein

rippling

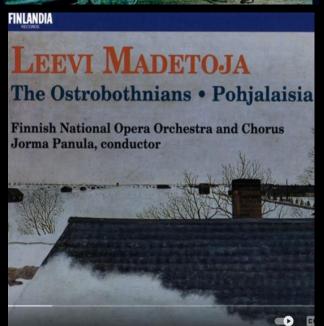




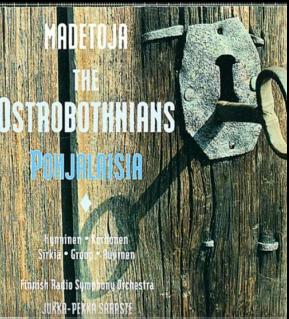


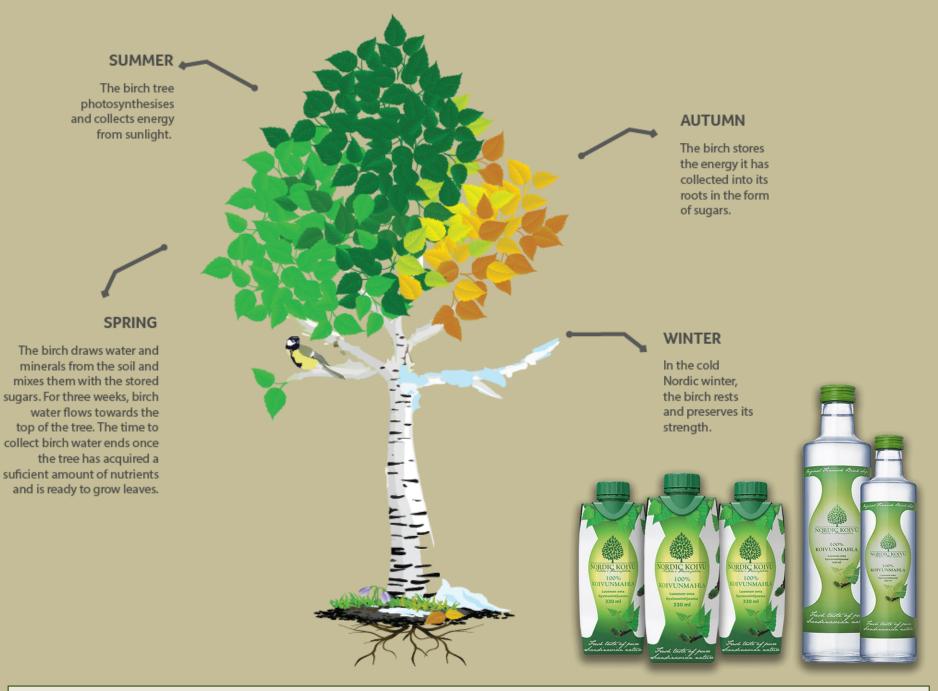










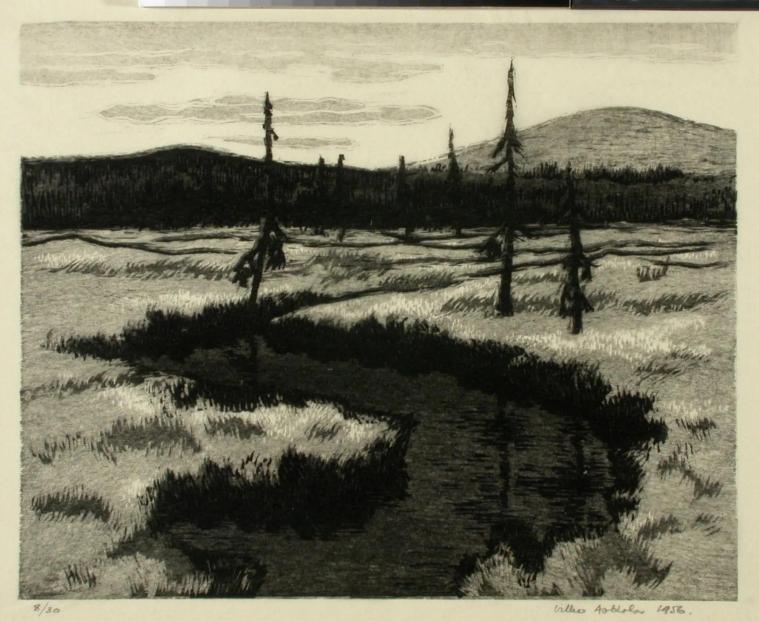


BOGLANDS



Kalervo Palsa, 'Bog Landscape' (1968), 42×29.5cm, watercolour

CIV 858





Helmi Kuusi, 'Suo' (1965), 26.9 × 30.4cm, aquatint, drypoint, Finnish National Gallery



Helmi Kuusi, 'Boggy Lake' (1965), $14.5 \times 15 \text{cm}$, aquatint, drypoint, Finnish National Gallery



Tuulikki Pietilä, 'Bog Mist (from the series Other Worlds)' (1966), 54.5 x 44.5cm, aquatint, soft-ground etching, woodcut, Finnish National Gallery



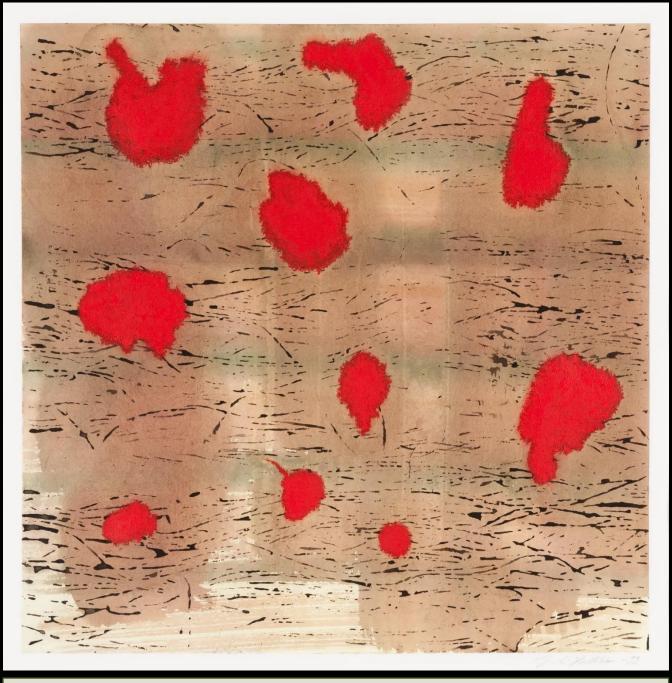
Aimo Kanerva, 'Snow on Marshes, Raattama' (1972), 25 x 46cm, oil on canvas, Finnish National Gallery



Aune Mikkonen, 'Suo' (1978), 22x28.5cm, aquatint, drypoint, Finnish National Gallery



Reijo Turunen, 'Suo' (1984), 100 x 80cm, crayon, oil, Finnish National Gallery



Irmeli Hulkko, 'Bog 1' (1999), 44 x 44cm, gouache, watercolour, Finnish National Gallery



Tarmo Paunu, 'Suo' (2011), 50x61cm, oil on canvas, Finnish National Gallery



Väinö Kirstinä from Säännöstely eutanasia (Rationed Euthanasia, 1973)

Tree roots wedge into a rock to break it.

How does that happen?

Let's take a birch root – it squeezes and grips the rock and when the tree sways, the root pulls away from the rock just a little with each shake of the tree.

If the tree is tall, fifteen meters, let's say,

the wind strong and the treetop bushy, there's enough strength if only the roots can take it.

How patient the birch has to be!

And yet fast!

It cannot crunch the rock to pieces all at once, for it grows in the rock and would fall. It works quietly.

All the time, it enters deeply into the situation and comprehends the rock with its roots.

Now, when the tree sways once and something in the rock moves a tiny bit, let's say, making a hairline crack, just then some tip of fine roots

falls or sinks into a crevice of the rock and stays there with the sand and earth, and the rock is finally split

and the crack can never grow together.

The root doesn't think, of course, nor does the treetop. They don't conspire to conquer the rock but the stone is rent all the same.



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