

# Occurrence patterns of *L. pulmonaria* and its host trees (aspen and goat willow), together with 400-year fire history data, Teerisuo-Lososuo, Finland

**SND-ID:** snd1104-1. **Version:** 1.0. **DOI:** <https://doi.org/10.5878/t8nz-wc94>

## Download data

SND1104-001\_V1.0.zip (203.48 KB)

## Citation

Fabritius, H., Lankia, H., Wallenius, T., Várkonyi, G., Pennanen, J., & Snäll, T. (2019) Occurrence patterns of *L. pulmonaria* and its host trees (aspen and goat willow), together with 400-year fire history data, Teerisuo-Lososuo, Finland (Version 1.0) [Data set]. Swedish University of Agricultural Sciences. Available at: <https://doi.org/10.5878/t8nz-wc94>

## Creator/Principal investigator(s)

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[Tord Snäll](#) - Swedish University of Agricultural Sciences

## Research principal

[Swedish University of Agricultural Sciences](#) - the Swedish Species Information Centre

## Description

This data archive contains data used in the study by Fabritius et al. (2019): Estimation of metapopulation colonization rates from disturbance history and occurrence pattern data, *Ecology*. All data have been previously used also in other studies (Gu et al. 2001, Snäll et al. 2005, Lankia et al. 2012, Ronnås et al. 2017).

The data include two-time-point occurrence pattern data of an endangered lichen *L. pulmonaria*, empirical snapshot data on aspen (*P. tremula*) and goat willow (*S. caprea*) counts, and 400-year data of forest fires. All data have been collected in the Teerisuo-Lososuo nature reserve, Kuhmo, Finland (2 086 ha; 63°88'N, 29°18'E) and projected in the Finnish YKJ projection.

Ilkka Hanski initiated the surveys in the late 1990's and Gergely Várkonyi, Matti Komulainen, Jari Huotari, Pirjo Appelgren and Mikko Heikura assisted with field work.

The data include two-time-point occurrence pattern data of an endangered lichen *L. pulmonaria*, empirical snapshot data on aspen (*P. tremula*) and goat willow (*S. caprea*) counts, and 400-year data of forest fires. All data have been collected in the Teerisuo-Lososuo nature reserve, Kuhmo, Finland (2 086 ha; 63°88'N, 29°18'E) and projected in the Finnish YKJ projection, EPSG:2393.

## Language

[English](#)

### **Time period(s) investigated**

1997-01-01 – 2010-01-01

### **Data format / data structure**

[Numeric](#)

[Geospatial](#)

### **Geographic spread**

Geographic location: [Finland](#)

Geographic description: The data have been collected in the Teerisuo-Lososuo nature reserve, Kuhmo, Finland (2 086 ha; 63°88'N, 29°18'E) and projected in the Finnish YKJ projection.

### **Responsible department/unit**

the Swedish Species Information Centre

### **Funding 1**

- Funding agency: Academy of Finland
- Funding agency's reference number: 121919

### **Funding 2**

- Funding agency: The Swedish Research Council Formas
- Funding agency's reference number: 2005-933

### **Funding 3**

- Funding agency: Finland's environmental administration

### **Funding 4**

- Funding agency: Swedish Research Council
- Funding agency's reference number: 2012-3760

### **Funding 5**

- Funding agency: The Swedish Research Council Formas
- Funding agency's reference number: 2008-536

### **Funding 6**

- Funding agency: The Swedish Research Council Formas
- Funding agency's reference number: 2012-991

### **Research area**

[Earth and related environmental sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Natural sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Biological sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Imagery / base maps / earth cover](#) (INSPIRE topic categories)

[Biota](#) (INSPIRE topic categories)

## Keywords

[Fire models](#), [Fire history](#), [Fire scar date](#), [Land cover](#), [Forest disturbance](#), [Disturbance ecology](#), [Disturbance pattern](#), [Bio-geographical regions](#), [Habitats and biotopes](#), [Lobaria pulmonaria](#), [Populus tremula](#), [Salix caprea](#), [Occurrence pattern data](#)

## Publications

Gu, W.-D., Kuusinen, M., Konttinen, T. & Hanski, I. (2001). Spatial pattern in the occurrence of the lichen *Lobaria pulmonaria* in managed and virgin boreal forests. *Ecography*. 24(2), 139-150.

<https://doi.org/10.1034/j.1600-0587.2001.240204.x>

**DOI:** <https://doi.org/10.1034/j.1600-0587.2001.240204.x>

Snäll, T., Pennanen, J., Kivistö, L. & Hanski, I. (2005). Modelling epiphyte metapopulation dynamics in a dynamic forest landscape. *Oikos*. 109(2), 209-222. <http://www.jstor.org/stable/3548741>

Lankia, H., Wallenius, T., Várkonyi, G., Kouki, J. & Snäll, T. (2012). Forest fire history, aspen and goat willow in a Fennoscandian old-growth landscape: Are current population structures a legacy of historical fires? *Journal of Vegetation Science*. 23(6), 1159-1169.

<https://doi.org/10.1111/j.1654-1103.2012.01426.x>

**DOI:** <https://doi.org/10.1111/j.1654-1103.2012.01426.x>

Ronnås, C., Ovaskainen, O., Werth, S., Várkonyi, G. & Snäll, T. (2017). Discovery of long-distance gamete dispersal in lichen-forming ascomycetes. *New Phytologist*. 216(1), 216-226.

<https://doi.org/10.1111/nph.14714>

**DOI:** <https://doi.org/10.1111/nph.14714>

Fabritius, H., Singer, A., Pennanen, J. & Snäll, T. (2019). Estimation of metapopulation colonization rates from disturbance history and occurrence-pattern data. *Ecology*. 100(10), e02814.

<https://doi.org/10.1002/ecy.2814>

**DOI:** <https://doi.org/10.1002/ecy.2814>

## Polygon (Lon/Lat)

29.1343622664, 63.935562329

29.1343622664, 63.860640913

29.3678283691, 63.860640913

29.3678283691, 63.935562329

29.1343622664, 63.935562329

## Accessibility level

Access to data through SND

Data are freely accessible

## Use of data

[Things to consider when using data shared through SND](#)

## Versions

Version 1.0. 2019-05-28

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[DDI 3.3](#)

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