

An international workshop
Methods of Assessment of Status of the Threatened Species for the Barents-region
Red Data Books Based on IUCN-criteria
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ONLINE DATABASE OF
***Lobaria pulmonaria* FINDINGS**
IN RUSSIA

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Lobaria pulmonaria



- The species is sensitive to forest cutting, SO₂ air pollution and 'acid rain' (Hawksworth & Rose, 1970, Rose, 1988, Gauslaa, 1995).
 - Indicator of old-growth forests (Andersson *et al.*, 2003, Liira & Sepp, 2009).
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- ✓ *Lobaria pulmonaria* occurs in boreal, temperate, mountain and oceanic areas in the northern hemisphere (Yoshimura, 1998).
 - ✓ In the past century, the area of *Lobaria pulmonaria* became highly fragmented showing a decline across Europe (James *et al.*, 1977).
 - ✓ In many parts of Russia *Lobaria pulmonaria* is a common species (Pystina, Semenova, 2009).



The overall study of the distribution of *Lobaria pulmonaria* in Russia is absence. But there are many sources of *Lobaria pulmonaria* findings, such as field, herbarium and literature data.



The AIM of this study was to summarize data about distribution of *Lobaria pulmonaria* finds in Russia with the help of open information system with web-interface.

The background of the slide is a grayscale image of crumpled paper, showing various folds, creases, and shadows that create a textured, organic appearance.

Structure of the information system

THE SCHEME OF THE DATABASE

One record of database corresponds to one tree with *Lobaria pulmonaria*.

Worktable

Description of:

- location
- habitat
- host-tree
- L.p.*subpopulation



∞



1

Regions

∞

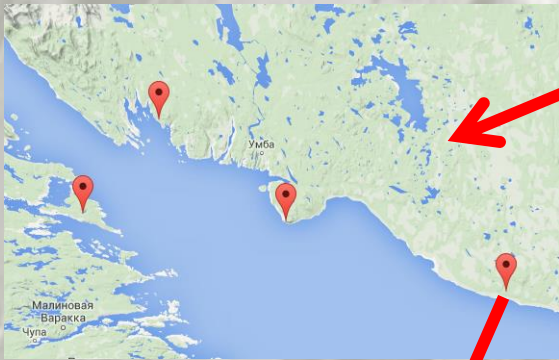


1

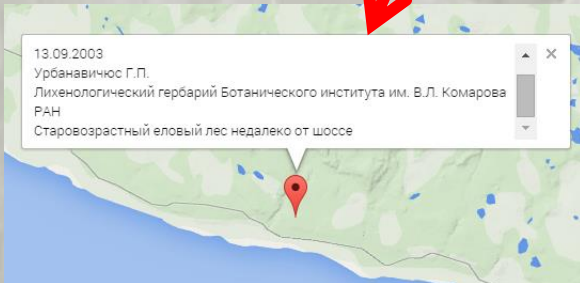
Tree species

Reference tables

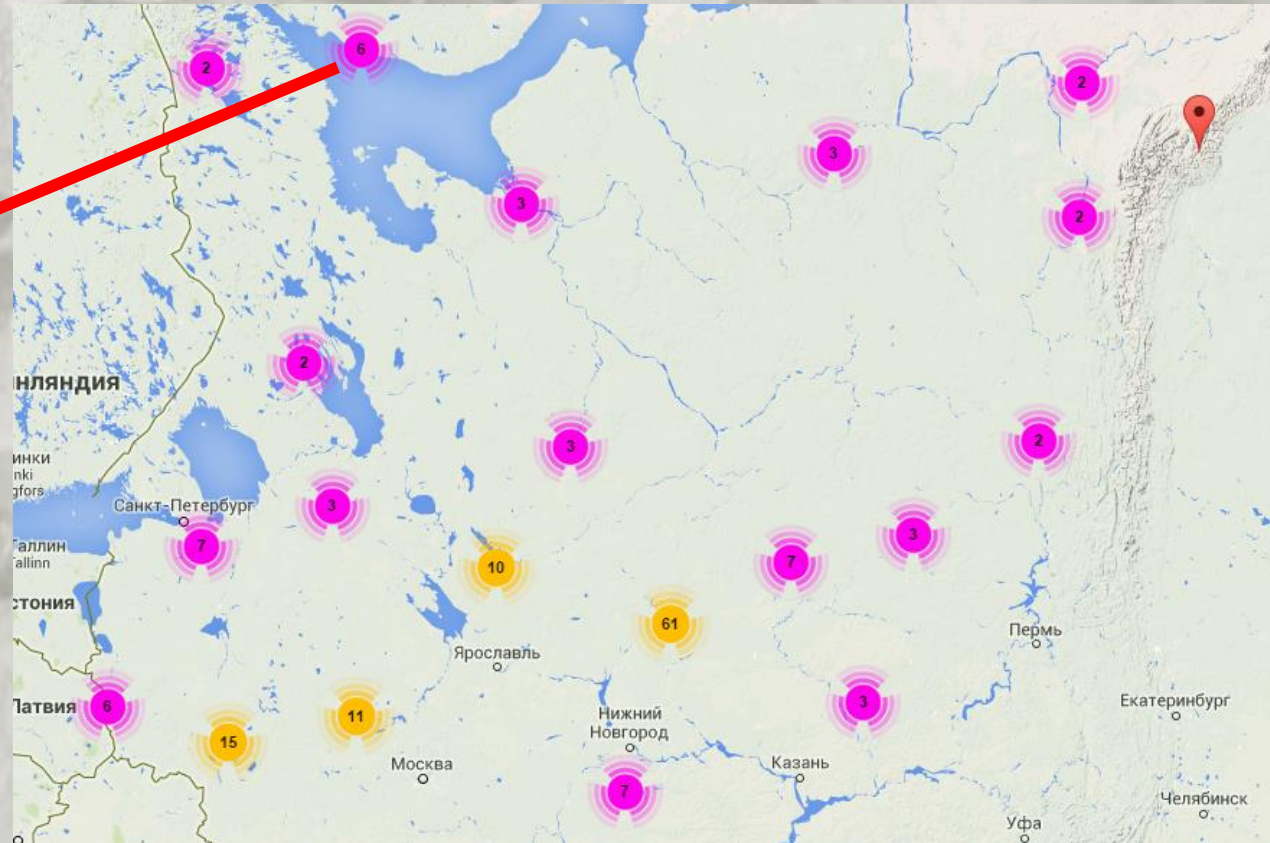
MAP OF *Lobaria pulmonaria* RECORDS ON LOBARIA.RU WEB-SITE



Points in the cluster



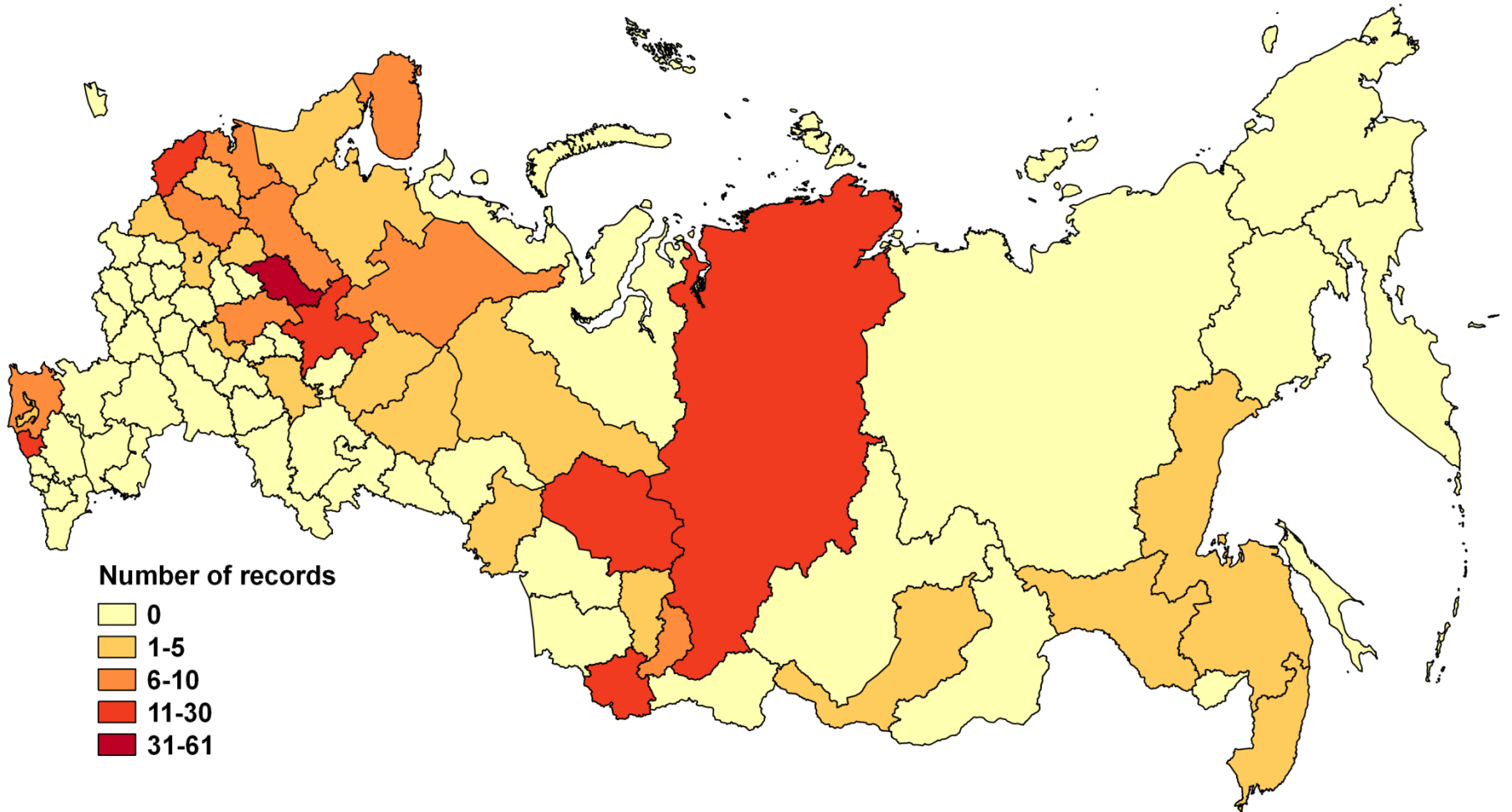
Information about record



Fragment of the map from the website. Different symbols indicate different number of finds in the cluster.

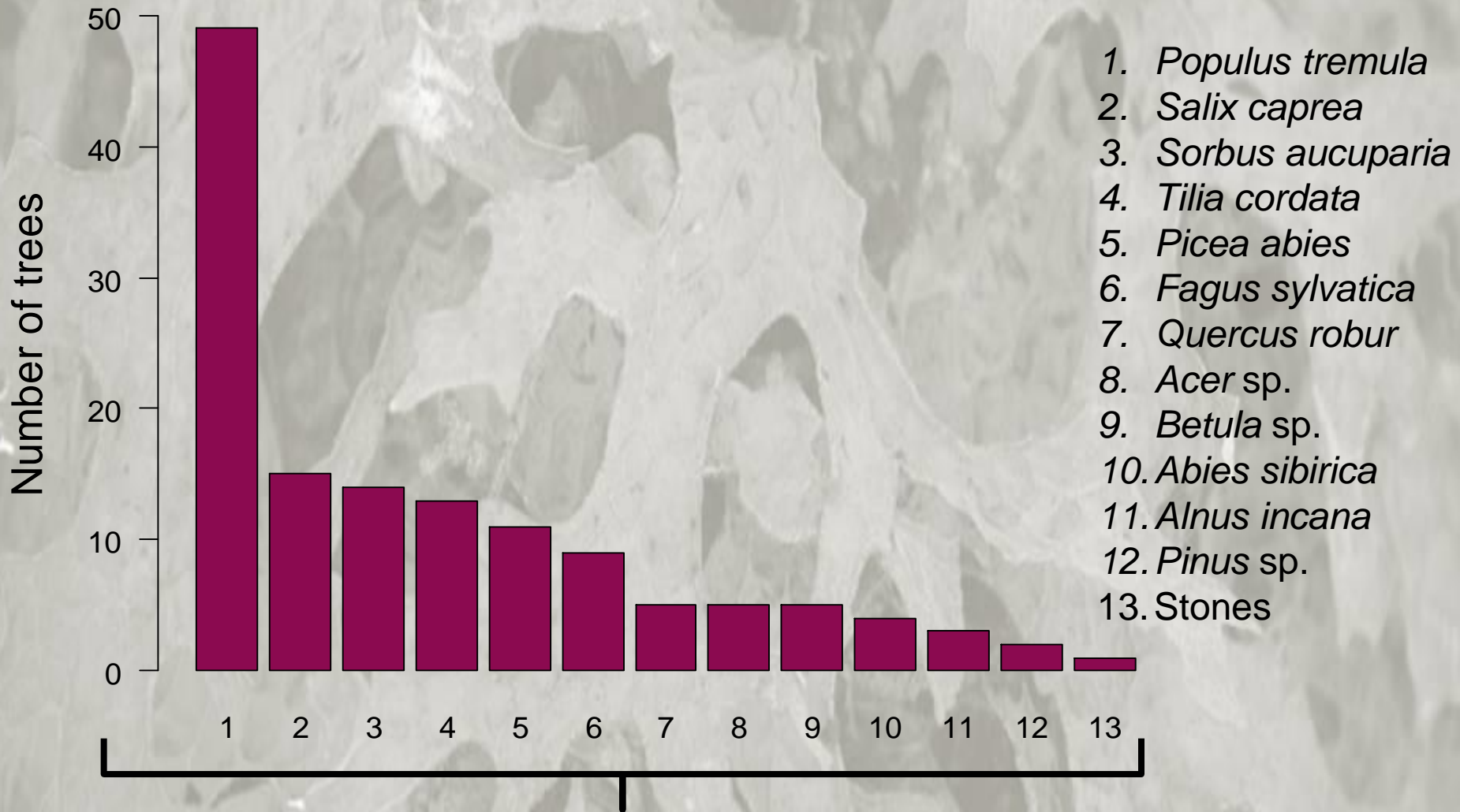
Previous data analysis

DENSITY OF *Lobaria pulmonaria* RECORDS IN VARIOUS REGIONS OF RUSSIA IN THE DATABASE



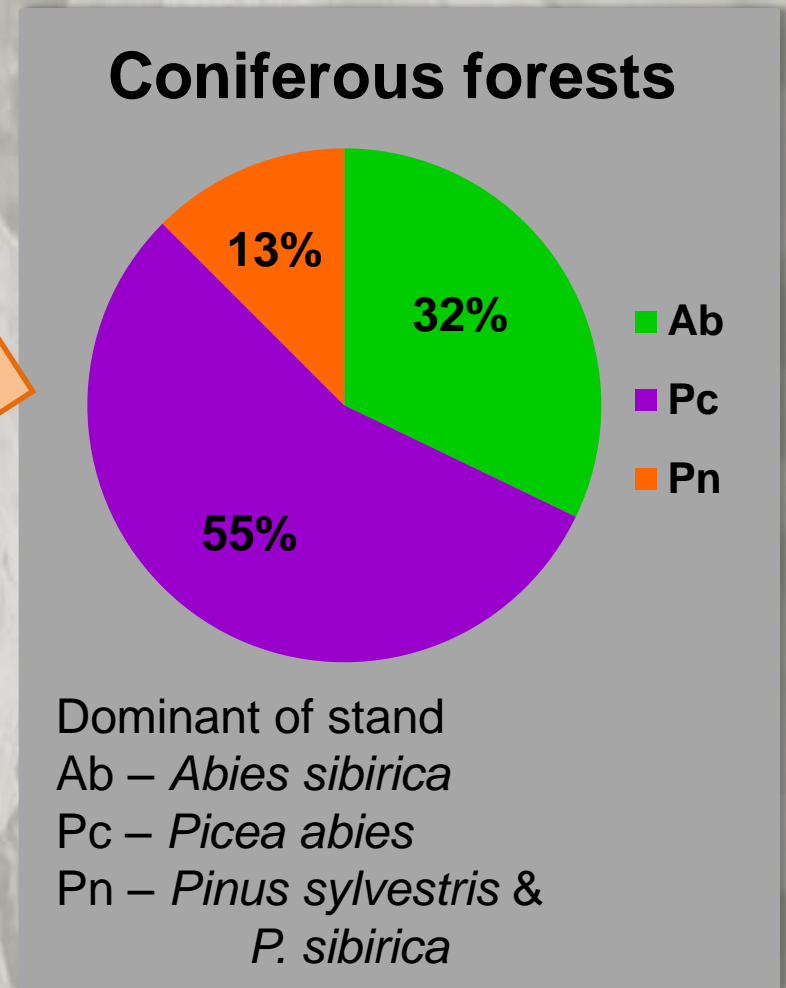
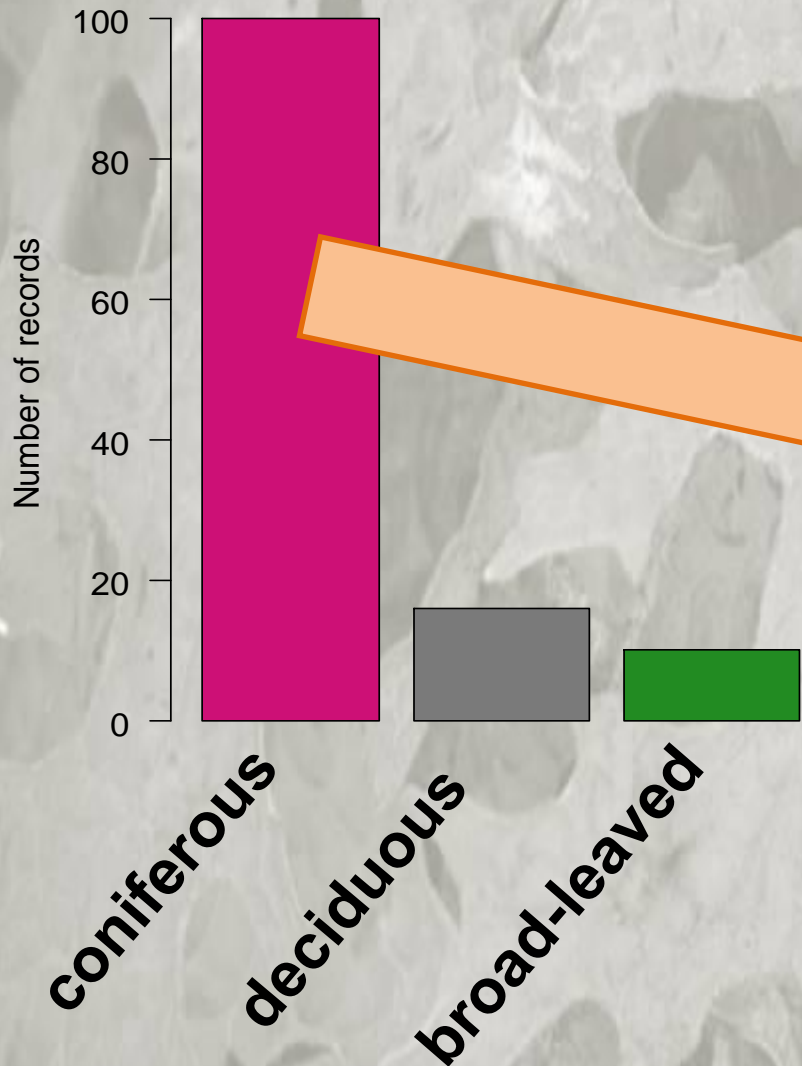
Total 263 records from 32 administrative regions of Russia 8

DIVERSITY OF *Lobaria pulmonaria* PHOROPHYTES



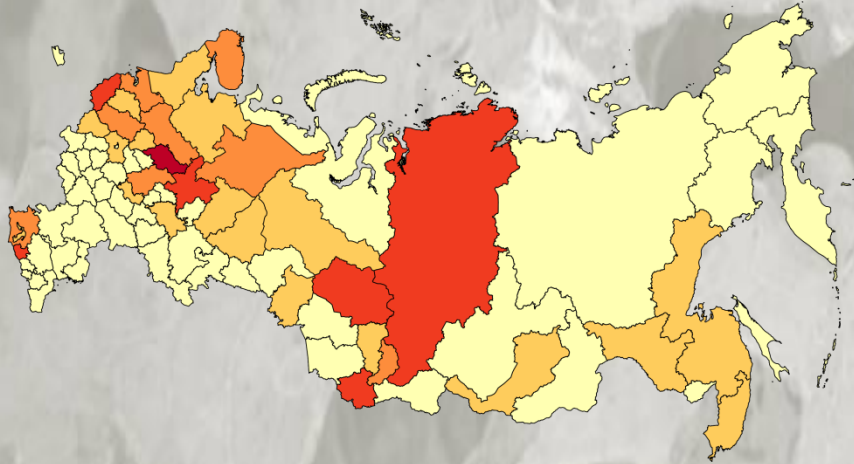
136 records with information about *L.p.* hosts

FOREST TYPES – HABITATS OF *Lobaria pulmonaria*



130 records with information about forest types

WELCOME TO COLLABORATE!



NOW



IN FUTURE





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Thank you for your attention!