

LIAS and MELnet

Two Global Species Databases managed at the SNSB

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Staatliche Naturwissenschaftliche Sammlungen Bayerns

SNSB IT Center

<http://www.snsb.info/>

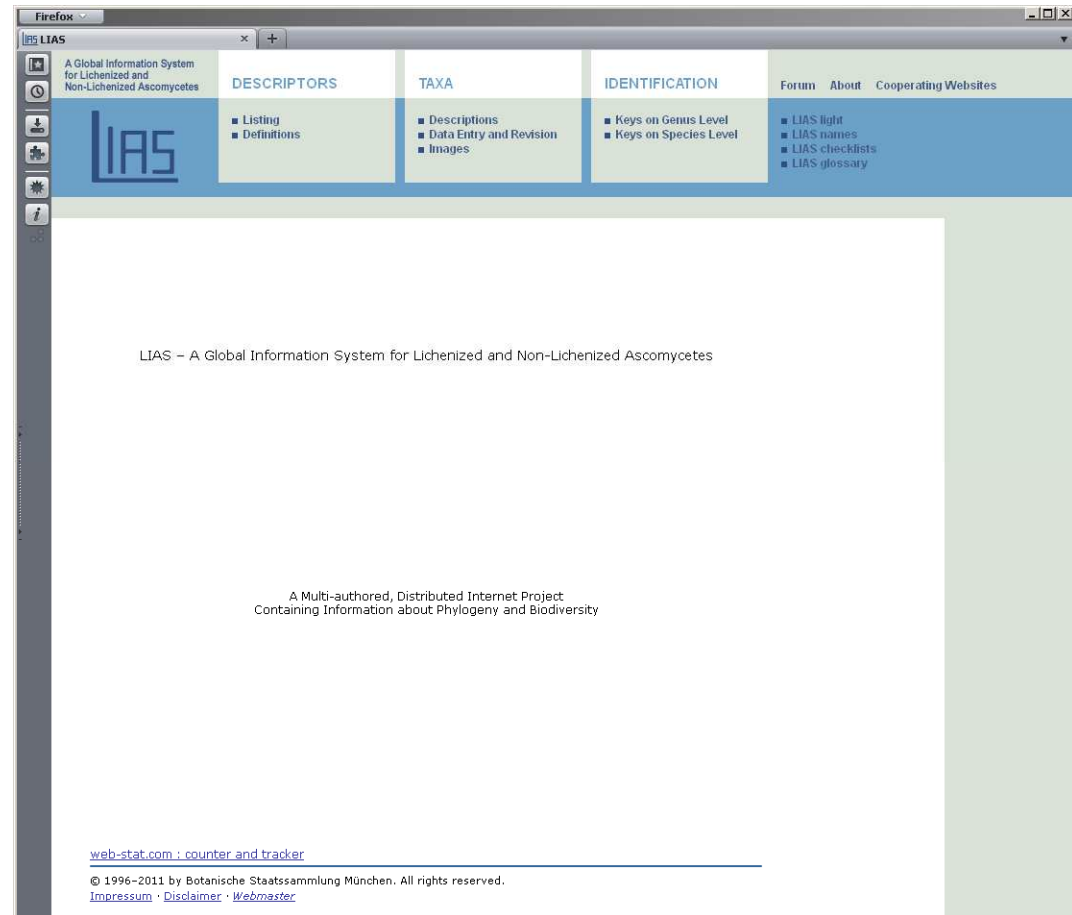
LIAS – Overview

An information system for descriptive and taxonomic data of lichens

Online since 1996, under www.lias.net

Managed by using Diversity Workbench (=DWB) database components and clients since 2001;
www.diversityworkbench.net

Supported by International Association for Lichenology (IAL)



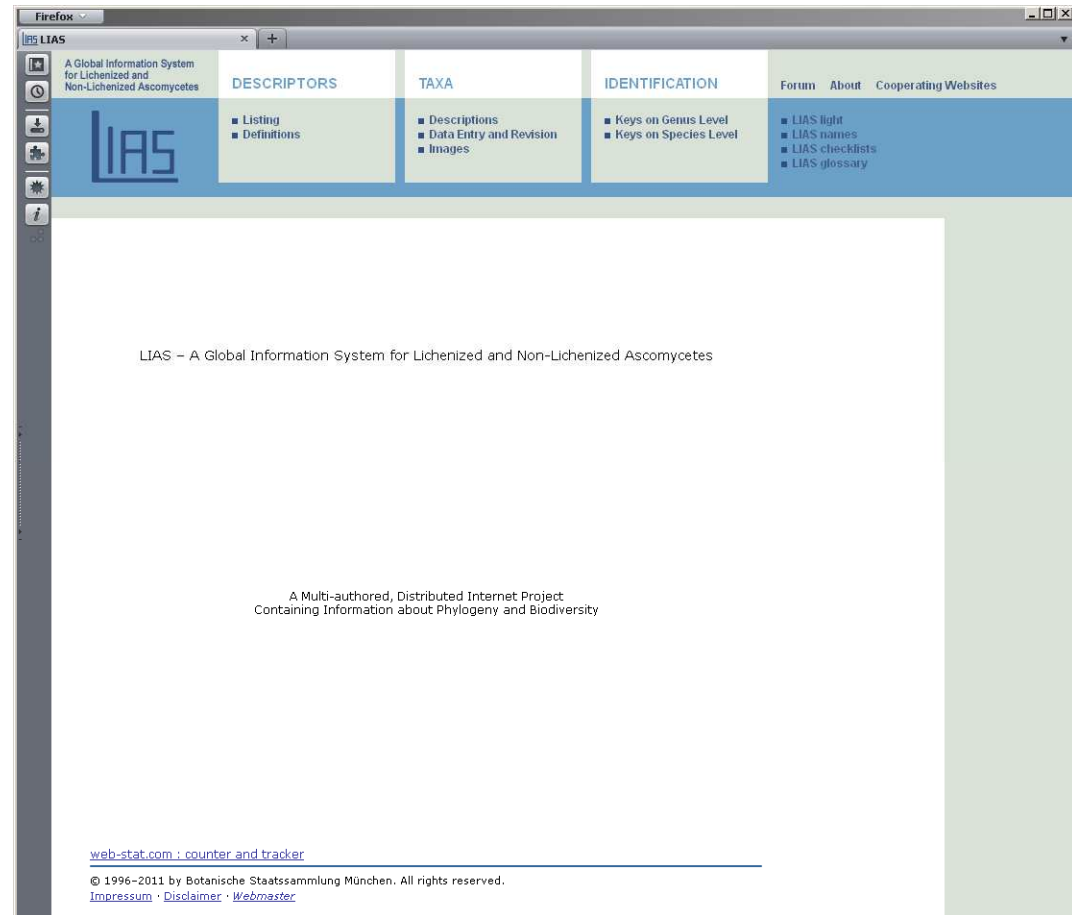
LIAS – Overview

An information system for
descriptive and taxonomic data
of lichens

Subprojects are

- LIAS light
- LIAS names
- LIAS checklists
- LIAS glossary

Taxonomic backbone:
40.000 names (with 26.000
accepted/ provisionally
accepted names)



LIAS – Overview

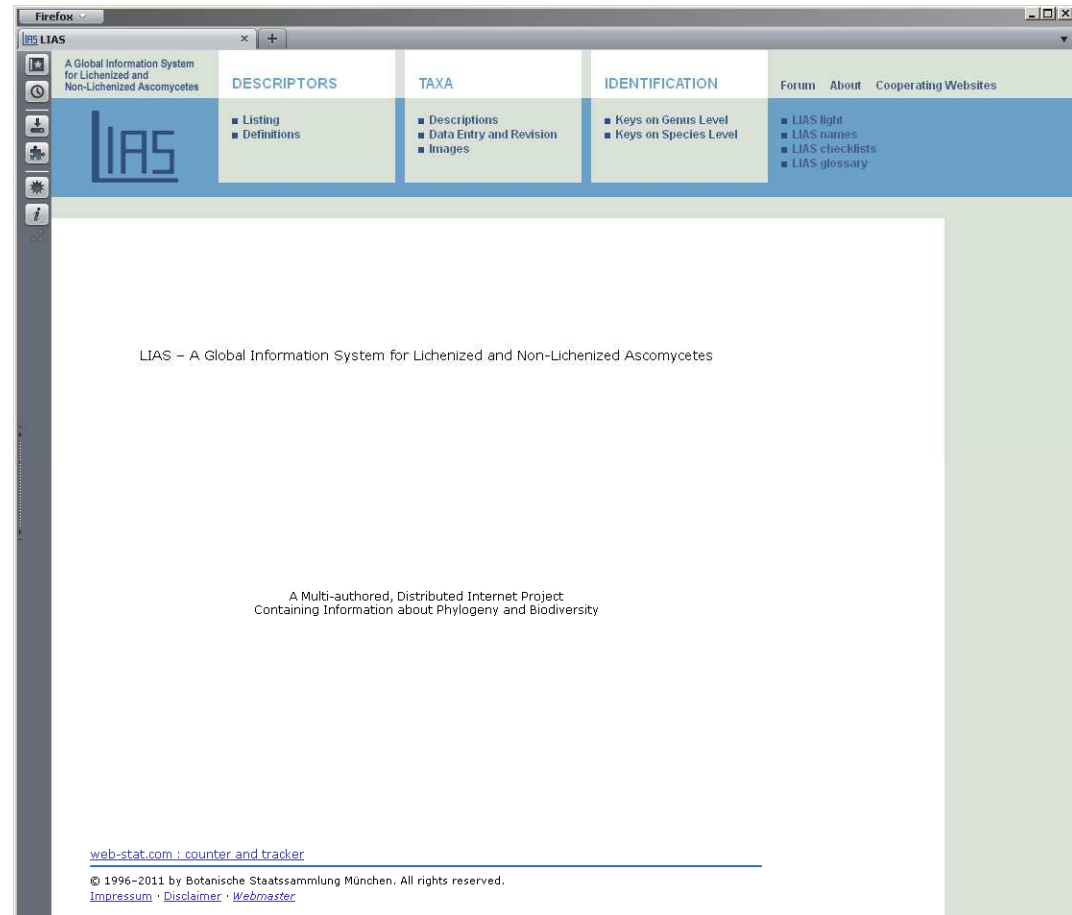
An information system for
descriptive and taxonomic data
of lichens

Database generated item
descriptions

Identification keys

Glossar

Checklists, Occurrence data



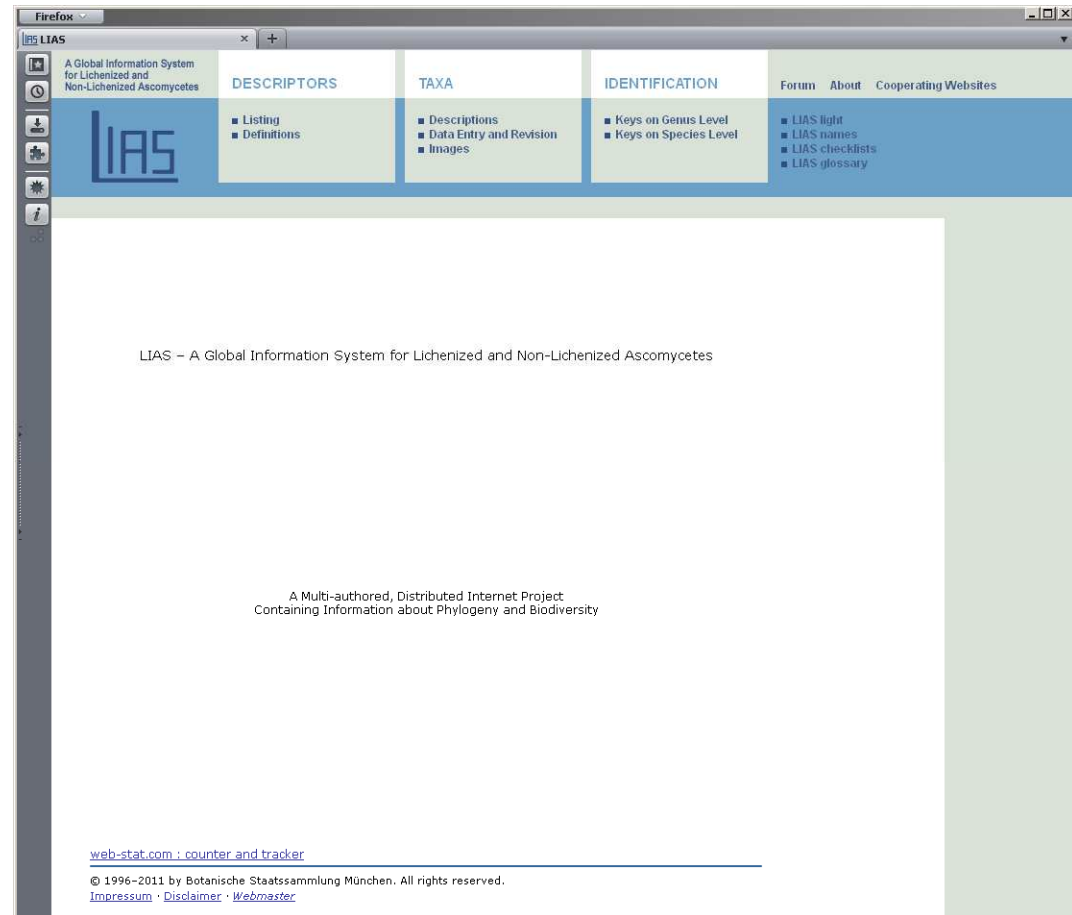
LIAS – A GSD Database for Catalogue of Life

An information system for descriptive and taxonomic data of lichens

Subset of 8.200 accepted names and 6.200 synonyms with

- 1.700 common names in English, French, German
- occurrence data on global region / continent levels
- direct links to item descriptions and global identification key

“Phylogenetic circumscription” overlaps with IF → pragmatically solved



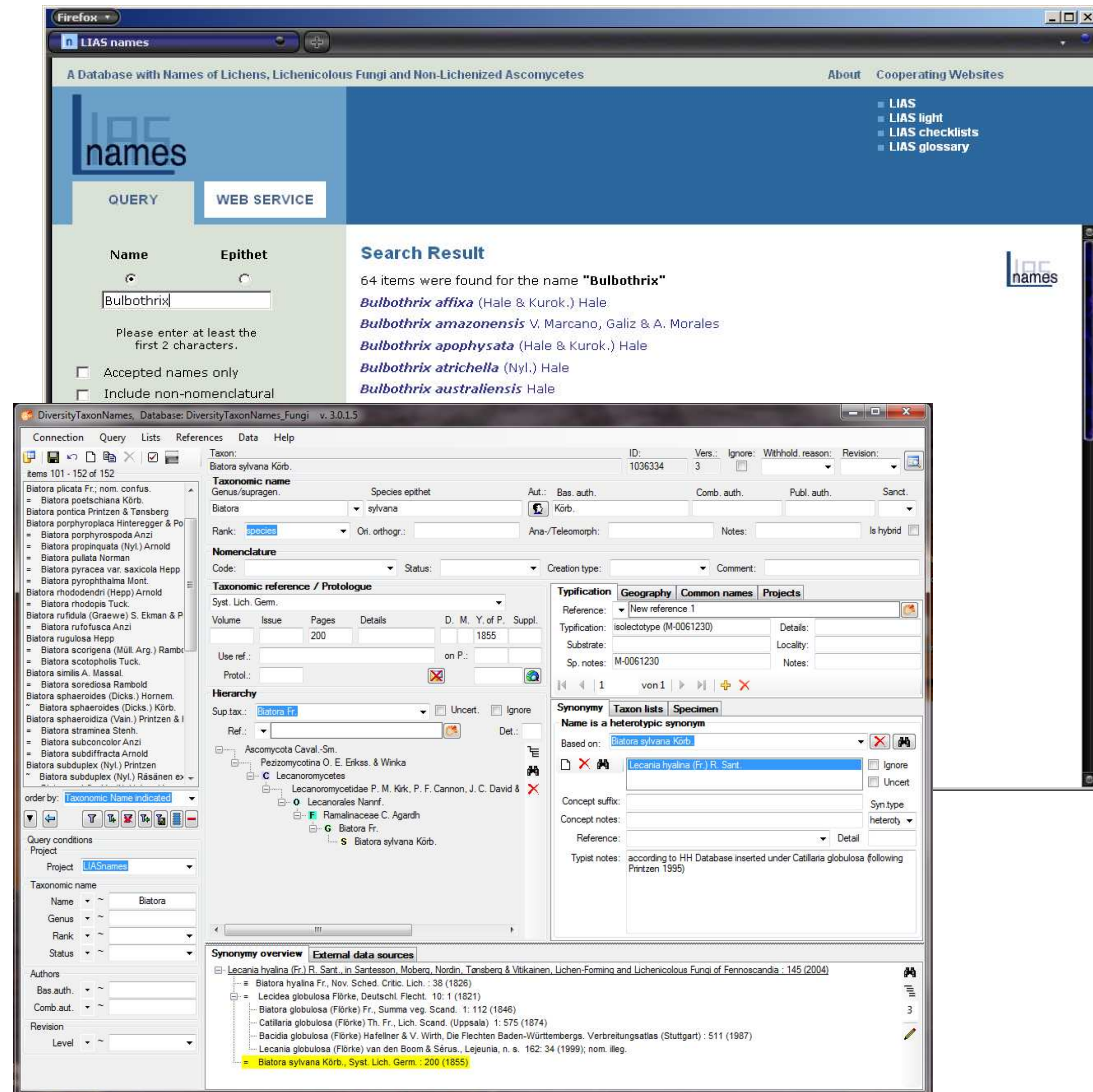
LIAS names

<http://liasnames.lias.net/>

Portal interface with Search and Browse options and SOAP and REST web service

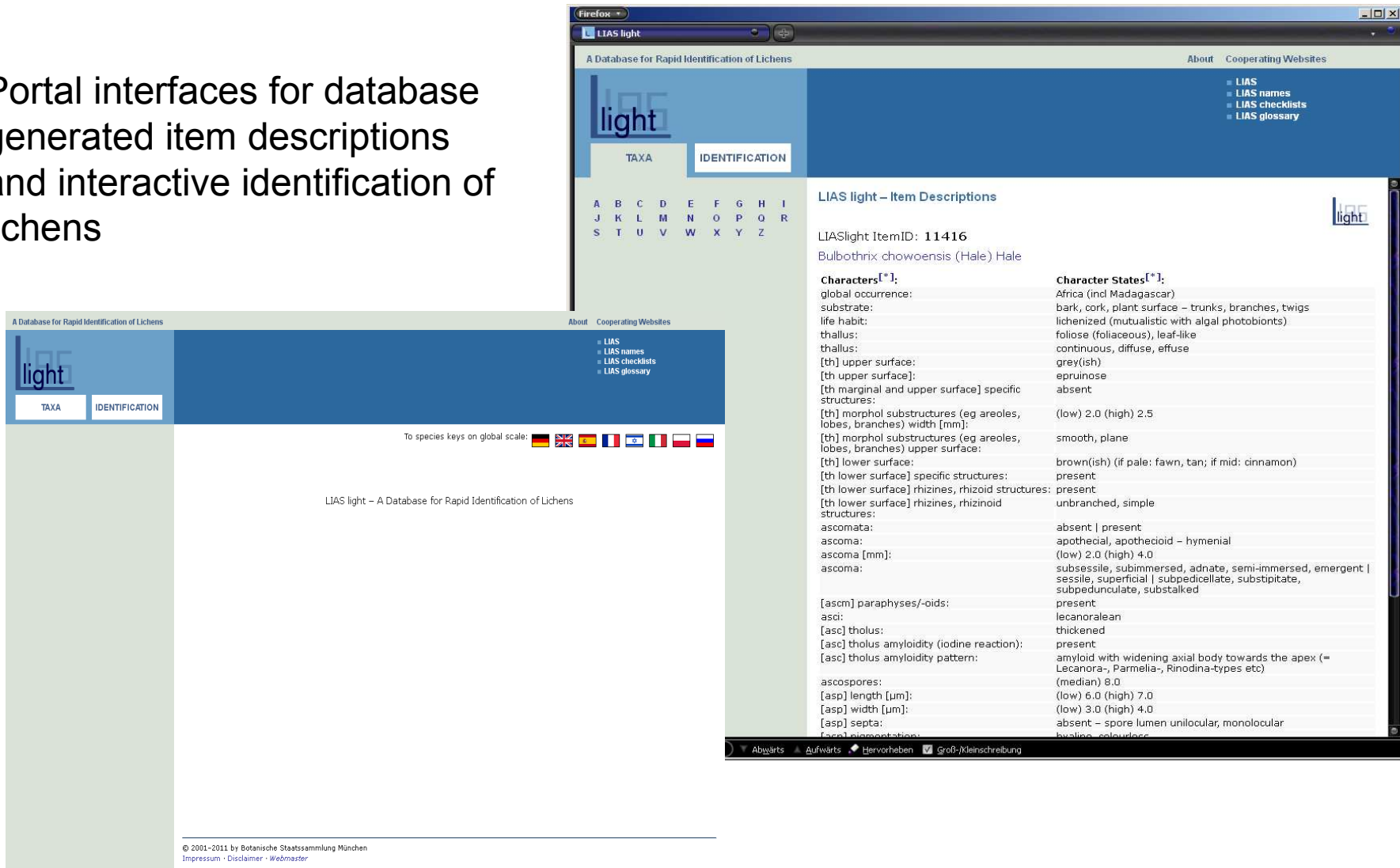
and

Rich client of a VRE called Diversity Workbench (=DWB) for data entry



LIAS light
<http://liaslight.lias.net/>

Portal interfaces for database generated item descriptions and interactive identification of lichens



LIAS light (NaviKey) Multilinguality

Flechtenarten der Welt

(Beispiel) Identifying lichen species of the World

(Experience) Identificando de especies de líquenes del Mundo

(Subgroup) Identification des espèces de lichen du monde

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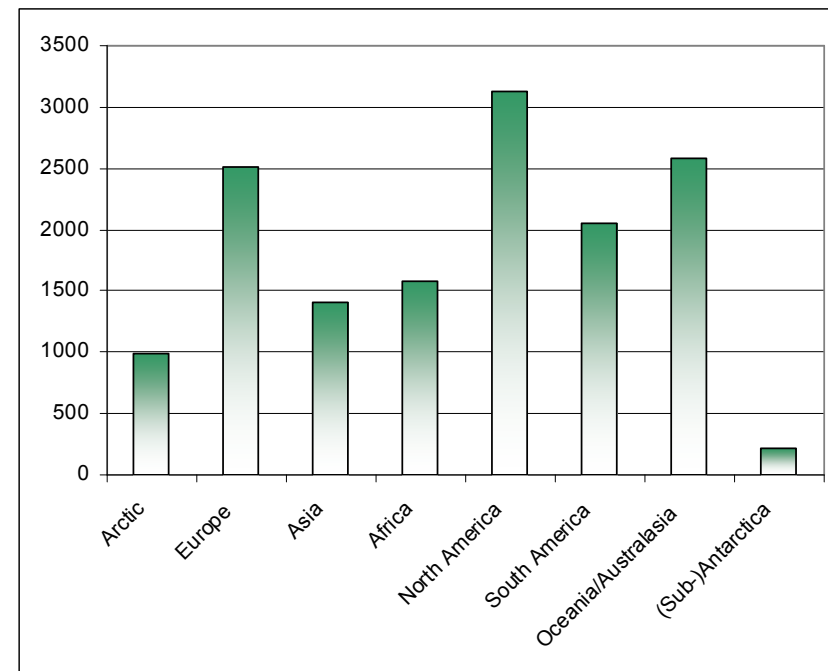
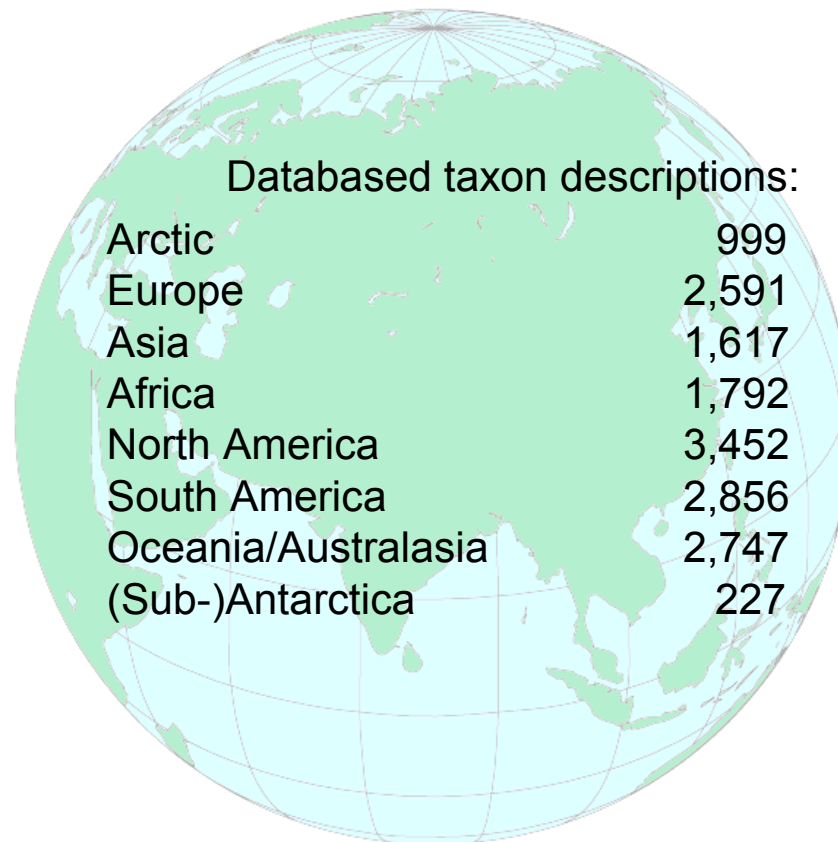
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LIAS light – Taxon Numbers

Estimated number of accepted
lichen taxa world-wide: ~15,000

Number of databased taxa: >8,880



MELnet

<http://www.melastomataceae.net/>

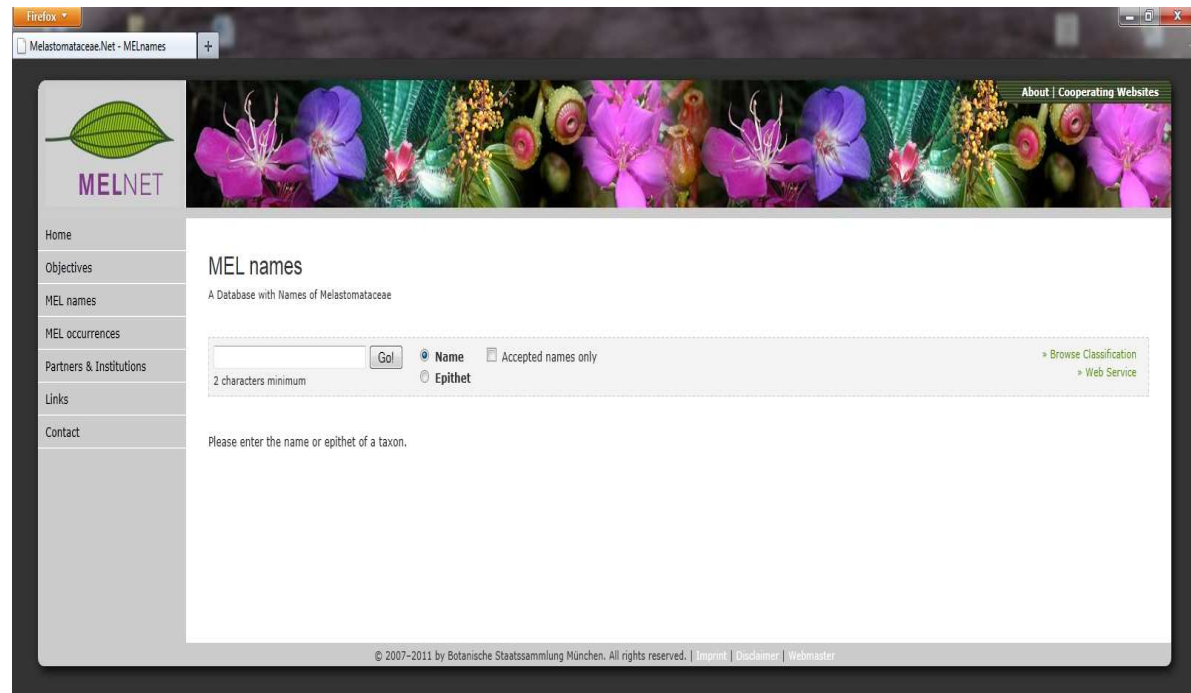
Taxonomy and systematics
of Melastomataceae

Tropical trees, worldwide
distribution

Online since 2007

Data management through
experts in Brazil, Colombia,
Germany, USA

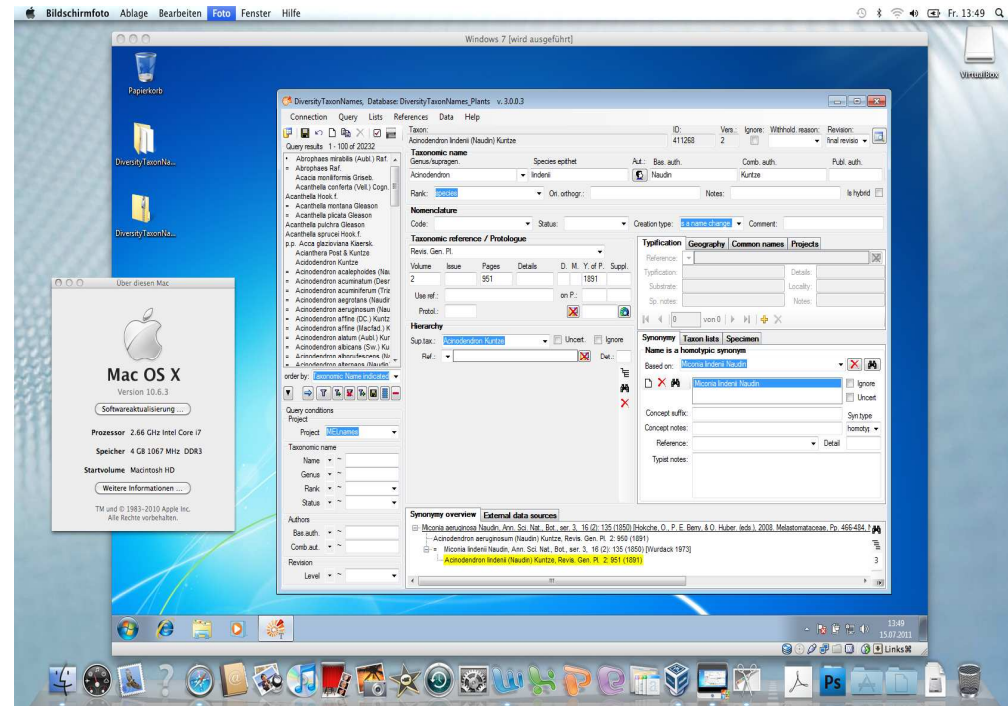
Supported by
GBIF International



MELnet – Data Management

Taxonomy and systematics
of Melastomataceae

Managed by using
Diversity Workbench (=DWB)
database components
and clients



MELnet as Data Resource

Taxonomy and systematics
of Melastomataceae

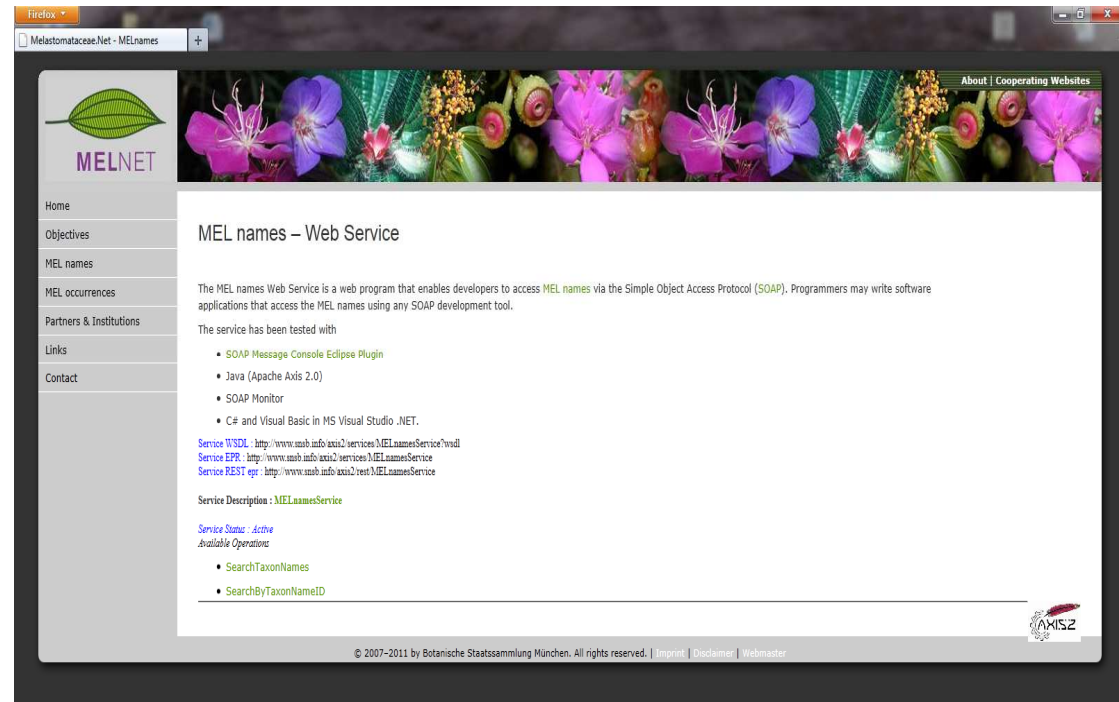
SOAP and REST web services
available

Data resource for planetary
biodiversity inventory project

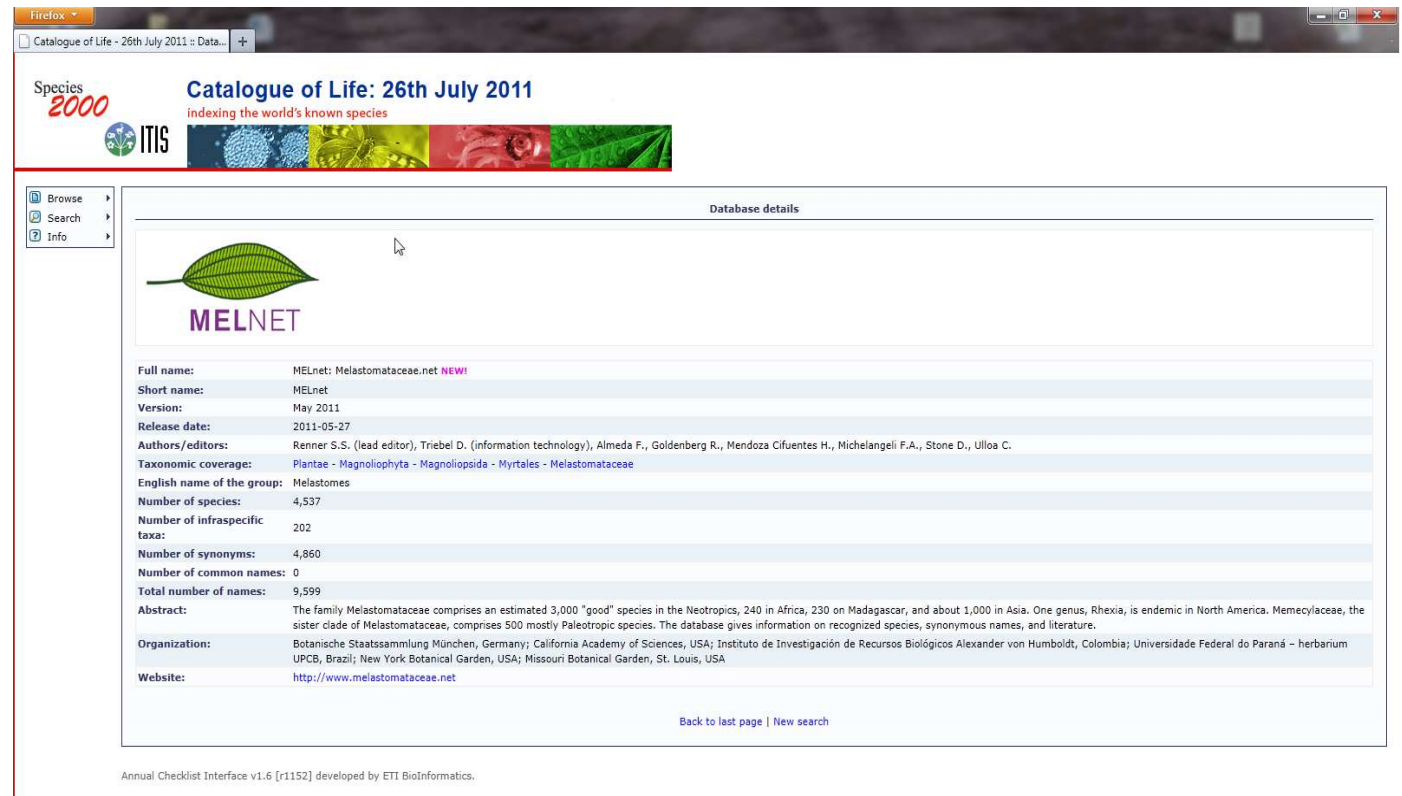
“Miconieae”;

<http://sweetgum.nybg.org/melastomataceae/>

Data resource for improvement
of Tropicos data



MELnet – A Database for Catalogue of Life



Full name:	MELnet: Melastomataceae.net NEW!
Short name:	MELnet
Version:	May 2011
Release date:	2011-05-27
Authors/editors:	Renner S.S. (lead editor), Triebel D. (information technology), Almeida F., Goldenberg R., Mendoza Cifuentes H., Michelangeli F.A., Stone D., Ulloa C.
Taxonomic coverage:	Plantae - Magnoliophyta - Magnoliopsida - Myrtales - Melastomataceae
English name of the group:	Melastomes
Number of species:	4,537
Number of infraspecific taxa:	202
Number of synonyms:	4,860
Number of common names:	0
Total number of names:	9,599
Abstract:	The family Melastomataceae comprises an estimated 3,000 "good" species in the Neotropics, 240 in Africa, 230 on Madagascar, and about 1,000 in Asia. One genus, Rhexia, is endemic in North America. Memecylaceae, the sister clade of Melastomataceae, comprises 500 mostly Palearctic species. The database gives information on recognized species, synonymous names, and literature.
Organization:	Botanische Staatssammlung München, Germany; California Academy of Sciences, USA; Instituto de Investigación de Recursos Biológicos Alexander von Humboldt, Colombia; Universidade Federal do Paraná - herbarium UPCB, Brazil; New York Botanical Garden, USA; Missouri Botanical Garden, St. Louis, USA
Website:	http://www.melastomataceae.net

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Annual Checklist Interface v1.6 [r1152] developed by ETI Bioinformatics.

Since 2011 in Catalogue of Life

With about 5.100 species of tropical trees (5.200 synonyms)

Acknowledgements

We thank the scientific and technical co-workers.



Bundesministerium
für Bildung
und Forschung

Bayerisches Staatsministerium für
Wissenschaft, Forschung und Kunst



4D4Life



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