

Vegetationskundliches aus der AG Landschaftsökologie Rostock

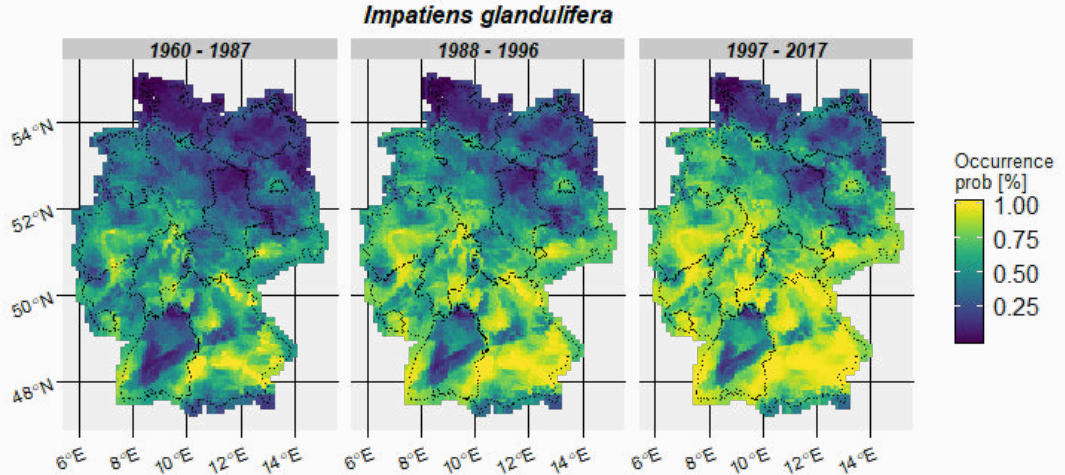
PROF. DR. FLORIAN JANSEN

20. August 2021

FlorSoz 2021 - Rostock

Flora

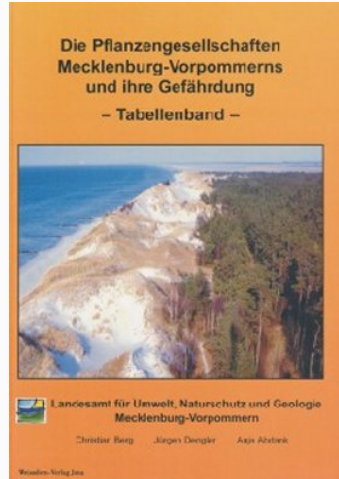
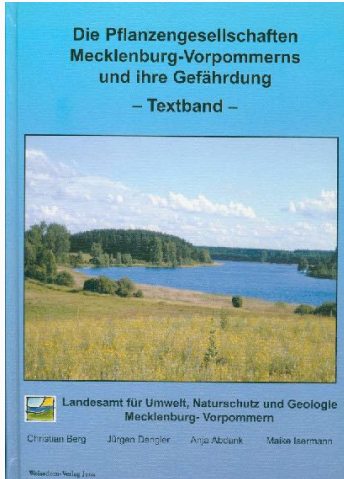
Trendanalysen aus floristischen Beobachtungsdaten



Eichenberg (2020) Widespread decline in Central European plant diversity across six decades. Global Change Biology, gcb.15447. <https://doi.org/10.1111/gcb.15447>

Vegetation

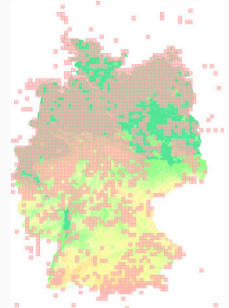
Pflanzengesellschaften MV und ihre Gefährdung (2001/04)



Berg (2004) Die Pflanzengesellschaften Mecklenburg Vorpommerns und ihre Gefährdung. Weissdorn.



- 50,000 Plots aus MV als Grundstock
- 130,000 von geschätzt 2 Mill in D
- Daten aus Tuexenia Veröffentlichungen
- Warenhausprinzip: Erheber bleibt Besitzer



<https://www.givd.info>,
<https://www.idiv.de/en/splot.html>

<http://euroveg.org/eva-database>

und

www.GIVD.info

10001001 Global Index of Vegetation-Plot Databases

Home Info Publications Databases Register or update databases Statistics

Global Index of Vegetation-Plot Databases (GIVD)

This metadata shall provide an overview of existing vegetation data worldwide, allow researchers to retrieve suitable data to prepare specific research, and thus enhance the awareness and application of this valuable but underestimated source of biodiversity information. Promoting the acronym GIVD is intended to remind of the "gift" that database hosts offer to the scientific community by facilitating the use of their data by other scientists.

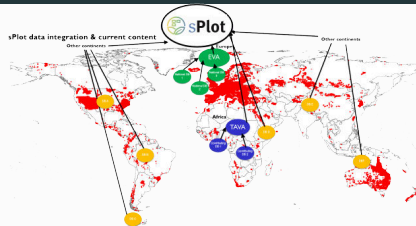
In GIVD, you find metadata about major vegetation-plot databases of the world. This will help you to retrieve suitable data sources for the analyses you plan and to get into contact with their hosts. You can get an overview of and search within the registered databases here.

Already 235 databases with 3,454,046 vegetation plots are registered.

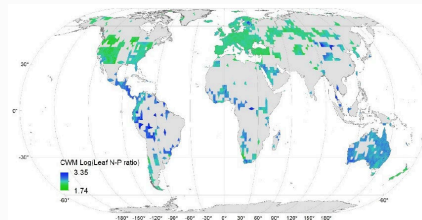
Registering your own database will greatly increase the visibility of your database and help to attract users of your data and thus potential cooperation partners for you. Uploading your data will cost you approximately 1/2 hour of well-invested time.

Spatial distribution of registered plots

The geographic distribution of registered vegetation plots depends on complete announcement of (1) Number of independent plots (2) Percentage of plots for every mentioned "Covered country". If you find your country underrepresented please check these fields in your database entry. Color classes are number of vegetation plots per country divided by the country area in 10^6 .



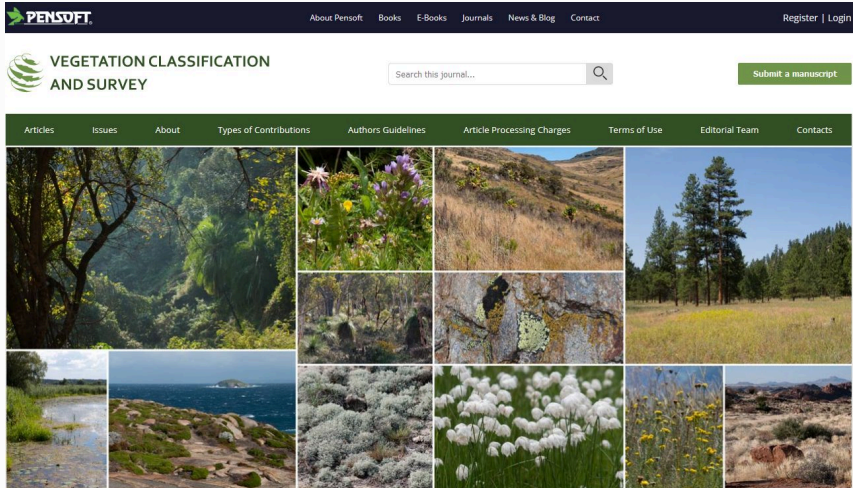
<https://www.idiv.de/en/splot.html>



Bruehlheide et al. (2018) Global trait–environment relationships of plant communities. *Nature Ecology & Evolution*

Vegetation classification and survey

Internationale Zeitschrift für Vegetationsökologie (frühere Phytocoenologia)
im Auftrag der International Association for Vegetation Science



Vegetationstypen finden und
Vegetationstypen zuweisen

C Surface waters

((<##Q +11 Aquatic-species> AND
 <#TC +11 Aquatic-species GR \$75>)
NOT <#TC Trees|#TC Shrubs GR 15>

```
##D +11 Aquatic-species
Aldrovanda vesiculosa
Alisma gramineum
Althenia filiformis
Althenia orientalis
Aneura pinguis
Antinoria agrostidea
Aristavena setacea
Azolla cristata
Azolla filiculoides
Azolla species
Baldellia alpestris
Baldellia ranunculoides
Botrydium granulatum
Callitriche brutia
Callitriche cophocarpa
Callitriche cribrosa
...
```

Chytrý et al. (2020) EUNIS Habitat Classification: Expert system, characteristic species combinations and distribution maps of European habitats. Applied Vegetation Science

Bruehlheide, Tichý, Chytrý, & Jansen (2021) Implementing the formal language of the vegetation classification expert systems (esy) in the statistical computing environment R. Applied Vegetation Science

Probabilistic Vegetation Key

= wahrscheinlichster Typ je nach ausgewählter/n Art(en)

Probabilistic vegetation key

Search

☐ Forest and scrub vegetation ☒ Other vegetation types ☒ Identification of associations ☐ Identification of alliances [clear form](#)

Taxa with a cover >25% Other taxa

Scirpus sylvaticus ✕

Proposed vegetation types with the probability of correct classification (%) count of types: 13

 64 % <i>Scirpetum sylvatici</i>	 5 % <i>Angelico sylvestris-Cirsietum oleracei</i>	 3 % <i>Scirpo sylvatici-Cirsietum cani</i>	 3 % <i>Lysimachio vulgaris-Filipenduletum ulmariae</i>	 3 % <i>Scirpo sylvatici-Caricetum brizoidis</i>
 2 % <i>Polygono bistortae-Cirsietum heterophylli</i>	 2 % <i>Choerophyllo hirsuti-Calthetum palustris</i>	 2 % <i>Angelico sylvestris-Cirsietum palustris</i>	 2 % <i>Carici pendulae-Eupatorium cannabini</i>	 2 % <i>Cirsietum rivularis</i>