



**GeoSphere**  
Austria

Bundesanstalt für  
Geologie, Geophysik,  
Klimatologie und  
Meteorologie



## geographische Suche

going open source

koha DACH  
1.12.2022

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koha-support.eu

 Geologische Bundesanstalt



**ZAMG**  
Zentralanstalt für  
Meteorologie und  
Geodynamik

# bestehendes System

Online Katalog der Geologischen Bundesanstalt

Home

Suchen

Login

- Einfache Suche
- Erweiterte Suche
- Geografische Suche

Einfache Suche

Suchen in	<input type="text" value="Bibliothekskatalog"/>	▼
Signatur	<input type="text"/>	
Wörter aus dem Titel / Abstract	<input type="text"/>	
VerfasserIn	<input type="text"/>	
Schlagwort	<input type="text"/>	
Geograf. Schlagwort	<input type="text"/>	
Personenschlagwort	<input type="text"/>	
Verlag	<input type="text"/>	
Jahr	<input type="text"/>	
Sortierung	<input checked="" type="radio"/> Unsortiert <input type="radio"/> Titel <input type="radio"/> VerfasserIn <input type="radio"/> Jahr	
<input type="button" value="Suchen"/> <input type="button" value="Löschen"/>		

<https://opac.geologie.ac.at/>

proprietäre  
Eigenentwicklung

adlib läuft 31.12.2023 aus  
Axiell Collection  
Bibliotheksmodul keine  
Priorität

Neues

gemeinsames  
System

  
FREE LIBRARY SYSTEM

# unter Verwendung von geonames (historische Namen)

**Spatial Library Search - GBA Literatursuche über GeoNames.org**

Search GeoNames.org

perchtoldsdorf

Search

Clear place names

Select place

Perchtoldsdorf

Perchtoldsdorf, Austria, Niederösterreich  
seat of a third-order administrative division

Bierhäusberg, Austria, Niederösterreich  
hill

Hochberg, Austria, Niederösterreich  
hill

Parapluieberg, Austria,  
hill

**Localized literature search**

- place with verified results (min. 1)
- place with unverifiable results

Clear location points

Export current results (PDF)

45 / 45 places matching the search

Only results with PDF

Deutsch

English

**Perchtoldsdorf, Österreich (50)**

**Plöchlinger, Benno:** Die Kreide-Paleozänablagerungen in der Gießhübler Mulde, zwischen Perchtoldsdorf und Sittendorf (N.-Ö.)

**Zahn, Ernst:** Gravimetrische Untersuchungen zur Feststellung der Tiefenlage und Struktur der Hauptdolomitoberkante unter sedimentärer Überlagerung in der Marktgemeinde Perchtoldsdorf

**Stltny, Josef:** Geologisches Gutachten betreffend den Luftschutzstollen Perchtoldsdorf westlich Rathaus

**Stltny, Josef:** Geologisches Gutachten betreffend den Luftschutzstollen in Perchtoldsdorf N.D. Walzengasse

Geonames.org

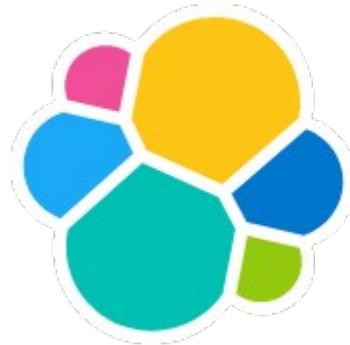
OpenStreetMap

KILOMETERS  
0 2 4

16.22062, 48.10416

Suche des Ortes und in der Umgebung

- Modul geographische Suche  
→ Anpassung des opacs und der frameworks/mappings
- Indizierung der lat/long aus den MARC 21 Felder 034\$s/034\$t
- Darstellung der Suchtreffer auf einer openstreet map



elastic

[https://bugs.koha-community.org/bugzilla3/show\\_bug.cgi?id=31652](https://bugs.koha-community.org/bugzilla3/show_bug.cgi?id=31652)

# Stand der Implementierung

<https://geosearch-opac.koha-support.eu/>

Koha 22.05.x

Elasticsearch 7.x

<https://github.com/HKS3/HKS3GeoSearch>

Patches

Anpassung Bibliographisches MARC-Framework

Anpassung Suchmaschinenkonfiguration (Elasticsearch)



- [https://bugs.koha-community.org/bugzilla3/show\\_bug.cgi?id=31652](https://bugs.koha-community.org/bugzilla3/show_bug.cgi?id=31652)
- Neuer Elasticsearch Type "Geo Point"
- Bereitstellung der Daten im korrekten Format für die Indizierung:  

```
"location": { "lat": 41.12, "lon": -71.34 }
```
- "Advanced ES Query", um die Geosuche durchführen zu können

# Elasticsearch Mappings: Search field

Circulation Patrons Search ▼  Cart More ▼ koha | Centerville ▼ Help

 System preference search:

**Search system preferences** [Check out](#) [Search the catalog](#)

Home > Administration > Search engine configuration (Elasticsearch)

## Search engine configuration (Elasticsearch)

**! Warning:** Any changes to the configuration will only take effect after a full reindex. Until then searching may not work correctly.  
**Weight:** define weight as a positive number. Higher numbers indicate increased relevancy. **Note that fields weighting works only for simple search.**

1. Only search fields mapped with biblios can be weighted
2. Search will boost/increase weighted field(s) relevancy

**Search fields** [Bibliographic records](#) [Authorities](#)

Showing 1 to 2 of 2 entries (filtered from 171 total entries) Search:

Name	Aliases	Label	Type	Weight	Searchable	
					Staff interface	OPAC
<input type="text" value="geolocation_lat"/>		<input type="text" value="geolocation_lat"/>	Geo Point <span>▼</span>	<input type="text"/>	Yes <span>▼</span>	Yes <span>▼</span>
<input type="text" value="geolocation_lon"/>		<input type="text" value="geolocation_lon"/>	Geo Point <span>▼</span>	<input type="text"/>	Yes <span>▼</span>	Yes <span>▼</span>

# Elasticsearch Mappings: MARC21

Circulation Patrons Search Cart More

koha | Centerville Help



System preference search:

[Search system preferences](#) [Check out](#) [Search the catalog](#)

Home > Administration > Search engine configuration (Elasticsearch)

## System preferences

> System preferences

## Basic parameters

- > Libraries
- > Library groups
- > Item types
- > Authorized values

## Patrons and circulation

- > Patron categories
- > Circulation and fines rules
- > Patron attribute types
- > Library transfer limits
- > Transport cost matrix
- > Item circulation alerts
- > Cities and towns

## Accounting

- > Debit types
- > Credit types

## Background jobs

- > Background jobs

## Search engine configuration (Elasticsearch)

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1. Only search fields mapped with biblios can be weighted
2. Search will boost/increase weighted field(s) relevancy

[Search fields](#) [Bibliographic records](#) [Authorities](#)

Showing 1 to 2 of 2 entries (filtered from 351 total entries) Search: geolocation

Search field	Sortable	Facetable	Suggestible	Searchable	Mapping	
geolocation_lat	No	No	No	Yes	034s	Delete
geolocation_lon	No	No	No	Yes	034t	Delete
						Add

Showing 1 to 2 of 2 entries (filtered from 351 total entries)

### Facet order

Search field	Label	Display
author	Authors	<input checked="" type="checkbox"/>
itype	Item types	<input checked="" type="checkbox"/>

# Lat/Lon eingeben

## Editing CGI programming with Perl / Scott Guelich, Shishir Gundavaram and Gunther Birznieks. (Record number 11)

Save Replace record via Z39.50/SRU search Link authorities automatically Settings Cancel

0 1 2 3 4 5 6 7 8 9

000 001 005 006 007 008 010 015 020 024 027 034 037 040 041 042 050 074 082 086

### Section 0

000 ? - LEADER

00 fixed length control field 01226cam a22003254a 4500 Required

034 ? - CODED CARTOGRAPHIC MATHEMATICAL DATA

s G-ring latitude 47.9

t G-ring longitude 13.9

037 ? - SOURCE OF ACQUISITION

040 ? - CATALOGING SOURCE

a Original cataloging agency DLC

c Transcribing agency DLC Required

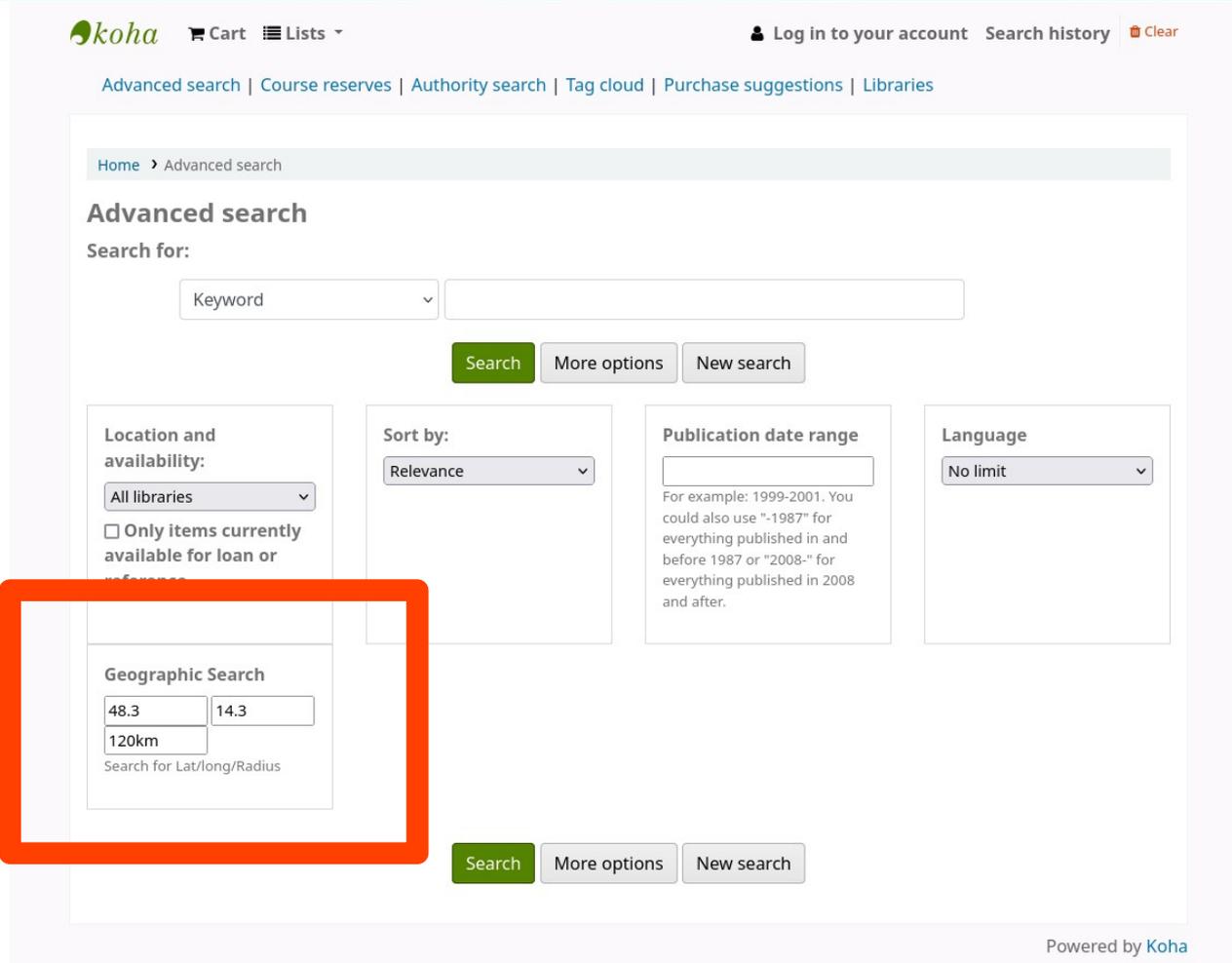
d Modifying agency DLC

e Description conventions



- <https://github.com/HKS3/HKS3GeoSearch>
- Normale Plugin Installation
- Aktivierung unter Administration / Manage plugins

# OPAC: Suchen in der Advanced Search



**koha**   Lists ▾ Log in to your account Search history  Clear

[Advanced search](#) | [Course reserves](#) | [Authority search](#) | [Tag cloud](#) | [Purchase suggestions](#) | [Libraries](#)

Home ▸ Advanced search

## Advanced search

Search for:

Keyword

**Location and availability:**

All libraries ▾

Only items currently available for loan or reference

**Sort by:**

Relevance ▾

**Publication date range**

For example: 1999-2001. You could also use "-1987" for everything published in and before 1987 or "2008-" for everything published in 2008 and after.

**Language**

No limit ▾

**Geographic Search**

Search for Lat/long/Radius

Powered by **Koha**

# OPAC: Suchergebnis



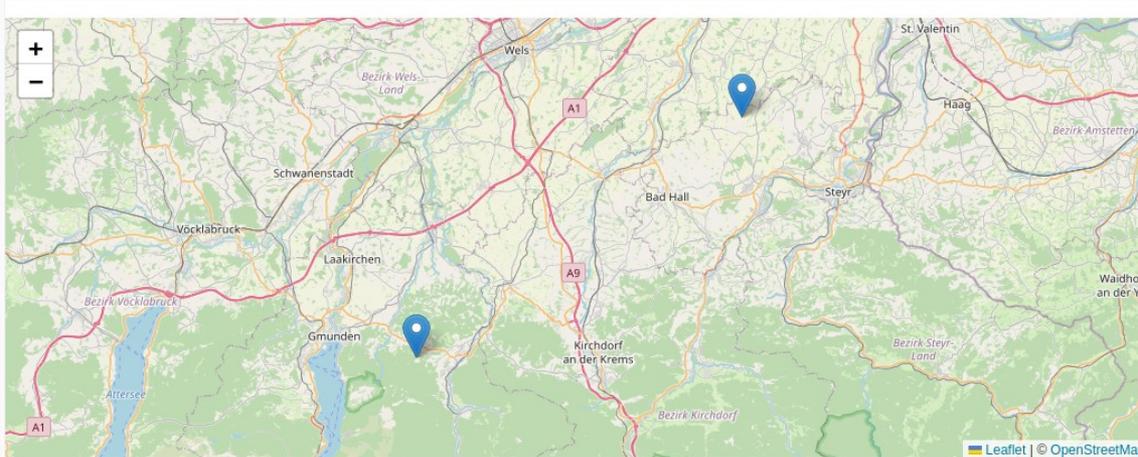
Cart Lists

Log in to your account Search history Clear

Library catalog lat:48.3 lng:14.3 distance:120km



[Advanced search](#) | [Course reserves](#) | [Authority search](#) | [Tag cloud](#) | [Purchase suggestions](#) | [Libraries](#)



Home > [Advanced search](#) > Results of search for 'lat:48.3 lng:14.3 distance:120km'

Refine your search

Availability

[Limit to currently available items](#)

Authors

[Birzniaks, Gunther](#)

Your search returned 2 results.

[Return to the last advanced search](#)

Relevance

[Unhighlight](#) | [Select all](#) [Clear all](#) | Select titles to:  [Save](#) [Place hold](#)

1. [CGI programming with Perl / Scott Guelich, Shishir Gundavaram and Gunther Birzniaks.](#)



- Koha verwendet Elasticsearch derzeit wie Zebra
- Alles ist eine "query\_string query":  
("Koha") AND date-of-publication:[1999 TO 2005]
- Unser Patch ist ein erster Schritt, die nativen Elasticsearch Suchoperatoren zu verwenden
- z.B. für Time ranges oder komplizierte Verknüpfungen

# weitere Schritte



Verwendung von geonames

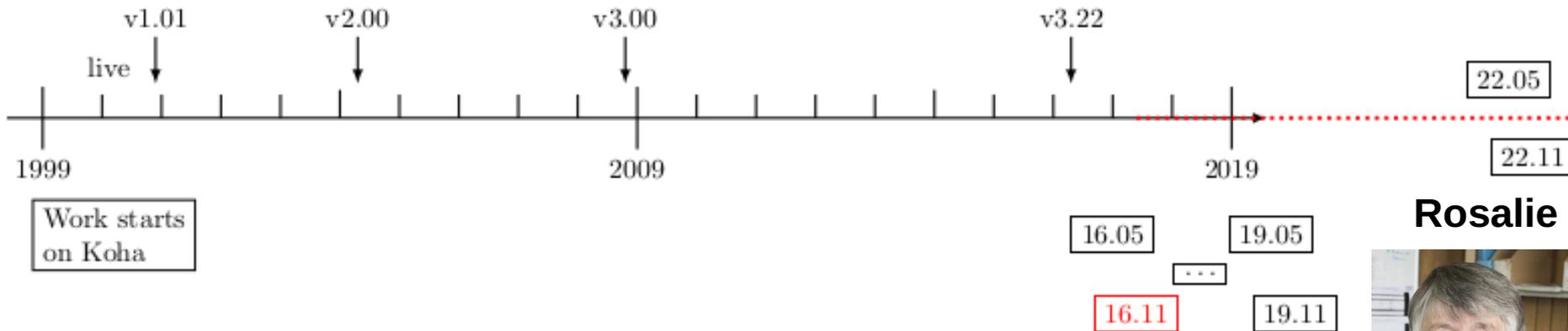
Indizierung über 651 - Subject Added Entry - Geographic Name  
und Normdaten

# Thank you 4 u attention



koha Entwicklung seit mehr als 2 Jahrzehnten

ZAMG verwendet koha ...



Rosalie



Its not the end  
there is more to come

<https://horowhenua.kete.net.nz/item/84181c6a-09bb-451e-92d4-3d881f662a3d>