User Guide

http://rechalpvd.unil.ch

This guide outlines how the RechAlp interface works and how to best make use of it.

1. Using the database

This site introduces you to the RechAlp project and its database.

1.1. Homepage

On the homepage you will find the project's aims, history, and a short introduction. You can also access a message from the Dean of Geoscience and Environmental Science, Prof. François Bussy.

The following information is also found on this page: 'Top Ten Keywords' most used in the database, and 'The Top Ten Most Common Searches'

It is also possible to do a Basic Search of keywords found in the database or an Advanced Search for more direct access to the documents.
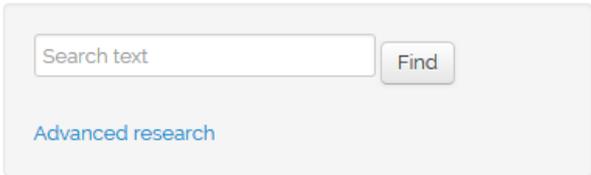
Figure 1: Search box

1.2. News Tab

Different updates on news, events, and media of the RechAlp project are listed here. It includes posters, presentations and promotions of the project, as well as information about publications in newsletters and journals.

1.3. Search Tab

There are three types of searches: a Basic Search, an Advanced Search, and a Map Search. For further information, see section 2.

1.4. Database Tab

The area being surveyed in this project is presented in the form of an interactive map.

The Data Tab also shows a detailed description of the types of data sets as well as fields of study.

The RechAlp's Code of Ethics and the form for sharing information is located on this page as well.

1.5. Research project support Tab

The purpose of this section is to provide the material needed to draft research funding applications to those who are interested in working in this study area. These differents documents on environments and on fields of study (Climatology, Wildlife, Geology, Geomorphology, Hydrology, Soils Sciences, Vegetation and ecological environments) in the Vaud Alps can be copied and used without restriction as long as RechAlp is cited.

1.6. My account Tab

It's possible to create a personal account where you can record your favorite documents and search results. Via this personal account you can also propose to RechAlp.vd documents or references not yet indexed in the database.

1.7. Footer

1.7.1. Links

This is where you find Internet links related to RechAlp.

1.7.2. Contact

Learn more about the people behind RechAlp.vd. This section lets you contact those responsible for the RechAlp project by email.

1.7.3. My account

Login to the personal account.

1.7.4. Logout

The links allows to logout when you have finished to use your personal account

2. Searches

2.1. Basic Search

You can do a basic search by entering a word or phrase in the space provided (Fig. 2). It is important to note that the Basic Search ONLY scans titles and abstracts. Since it is possible to miss important

http://rechalpvd.unil.ch

data contained within the documents, it is highly recommended to couple your Basic Search with an Advanced Search.

Search bibliographic references

Free search text

Figure 2: Basic Search field

2.2. Advanced Search

Click on either the arrow or the title to display the drop down menu for the Advanced Search (Fig. 3).
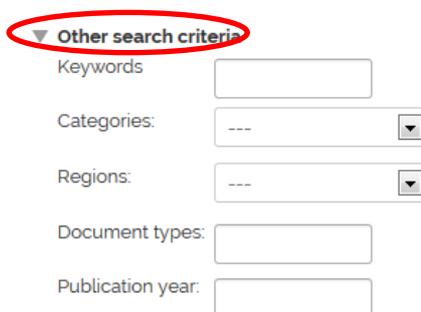
▼ Other search criteria

Keywords

Categories: ---

Regions: ---

Document types:

Publication year:

Figure 3: Advanced Research Fields

The Keyword field allows you to search all of the keywords that the authors have attributed to their references.

For all metadata and references there is an affiliated category and subcategory. The field 'Categories' allows you to search metadata and references by category. For more information on what these categories are, see section 3.

To simplify your search, you can define which region contained within the RechAlp zone you would like to explore. The 'Regions' field allows you to search within a certain district or commune. For more precise information on the different regions, see section 4.

The 'Document Types' field allows you to search by document type. For more information, see section 7.

The 'Publication Year' field allows you to search by the year the document was published.

When you select multiple categories and regions, the term "OR" will be applied between the words. The search results will include references that are either in one or more of the "categories" or "regions" you've entered. Please note the results may not always include all of the terms entered. Because the term "AND" will not be applied between the words.

2.3. Map Search

The 2D and 3D options can be displayed in both the "Map" and "Satellite" formats.

Certain references have been located on the map by one or more markers. The location of the markers corresponds roughly to the location of the study. Studies that cover all the Vaud Alps or a

3

bigger region do not have a corresponding marker; these references appear only in the list of results on the right-hand side of the screen.
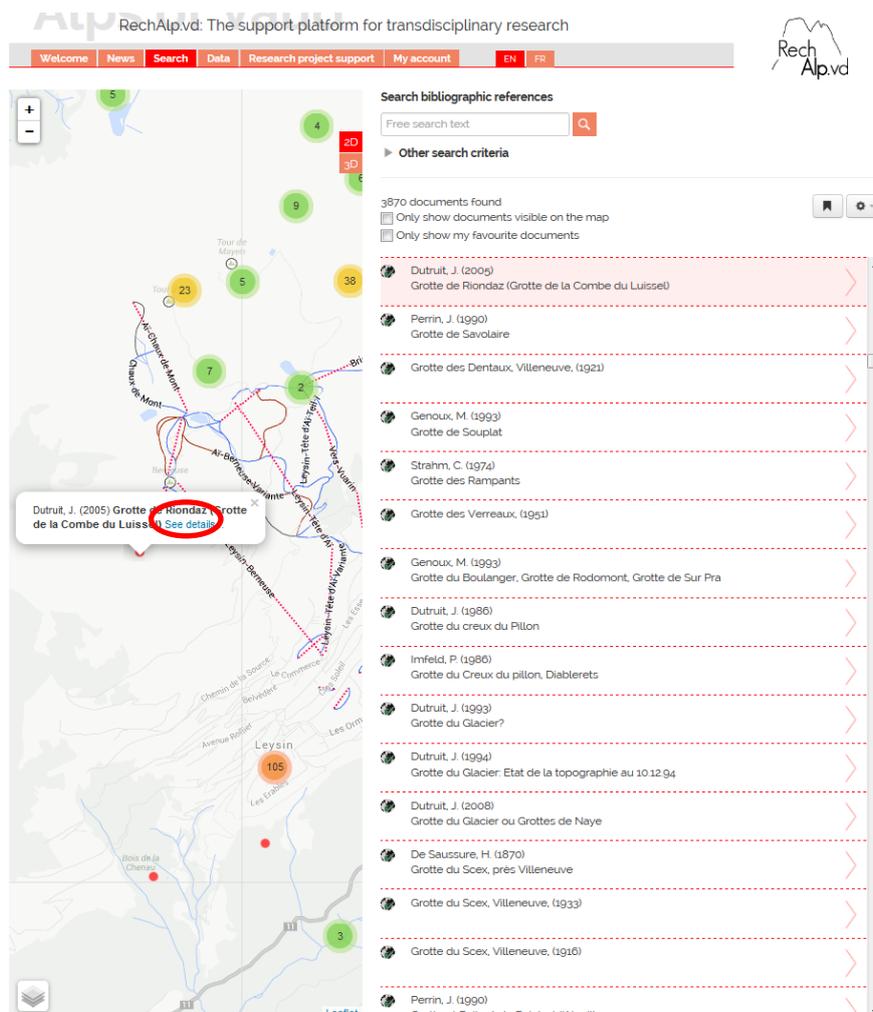
On the 2D map, there are 4 types of markers:

       Large red markers: at least 100 references in this location

       Large yellow markers: between 10 and 99 references in this location

       Large green markers: between 2 and 9 references in this location

       Small red markers: 1 reference in this location

The markers are updated as the map is moved.

The 3D map only shows small red markers.

By clicking a small red marker a window appears showing the author, the year of publication and the title of the reference (Fig. 4). By clicking "View details" the reference description appears in the window to the right (Fig. 5).

Figure 4: Selecting a small red marker

http://rechalpvd.unil.ch
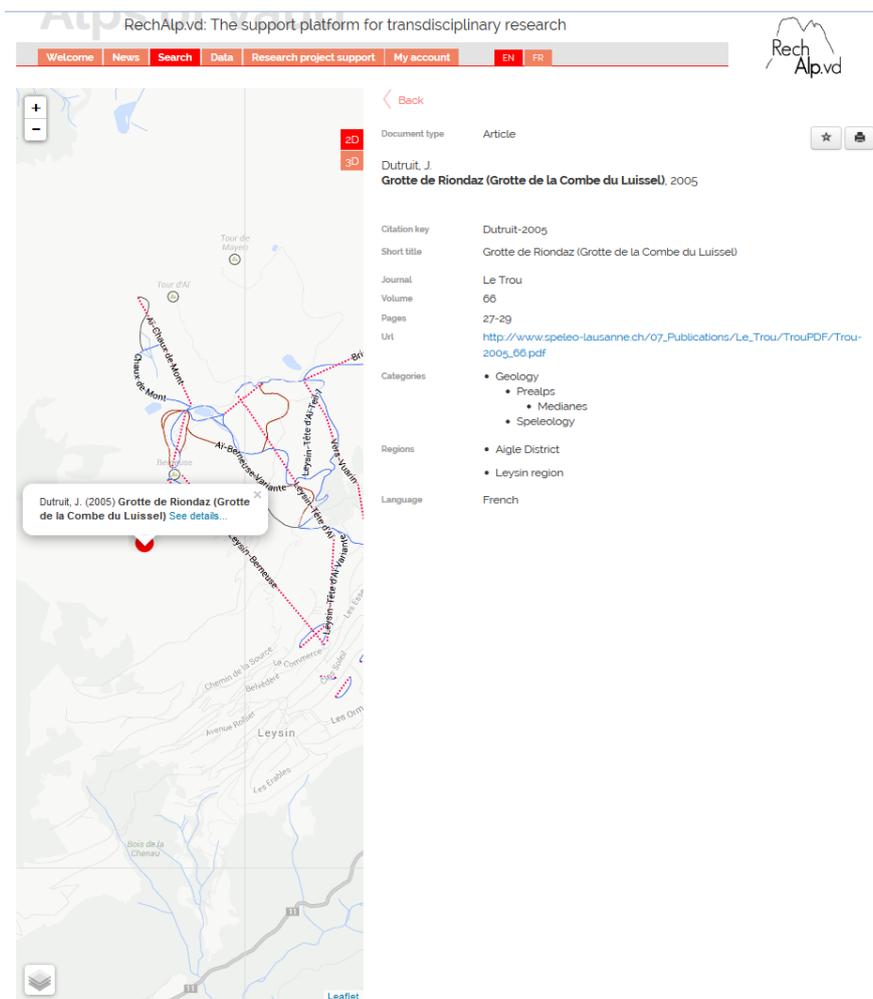
Figure 5: Reference description on the right

2.4. Search results

After performing a search, a list of results appears on the right-hand side of the screen. The number of results corresponding to the search appears above the list. The results are classed in the list under "document type". Passing the cursor over the results shows where a reference may appear on the map.

Clicking the result that interests you opens a reference description. To return to the results list, click on the "Return" arrow (Fig 6).

http://rechalpvd.unil.ch

UNIL | Université de Lausanne
Faculté des géosciences
et de l'environnement

Rech
Alp.vd

Figure 6: Location of the Return arrow and the saving in the favorites and the printing

It is possible to export a list of results or a reference description by selecting the "Export" button (Fig. 7). Then choose which kind of format you would like to export in (Bib, Word, etc.). It is also possible to print the reference description directly.

Figure 7: Location of the Export button and the saving of the current research result.

3. Categories

3.1. General

Each reference has one or more categories.

3.2. Ranking

Some categories, especially geology, are ranked up to three levels, which helps refine the search. It is possible however that a more general reference is present only in the first level. Moreover, it is possible that a reference is affiliated with several subcategories. In other words, the sum of all the subcategory references does not correspond to the number of category references.

3.3. List of Categories

Category	Subcategory	Sub-subcategory	Description
Geology	Prealps	Ultrahelvetic zone	Nappes/Prealp units
		Medianes	
		Niesen	
		Simme	
		Breche	
		Gurnigel	

http://rechalpvd.unil.ch

		Submedian zone	
	Helvetic zone	Morcles	Nappes/Helvetic zone units
		Diablerets	
		Wildhorn	
		Anzeinde	
	Earthquakes		Seismic analysis
	Quaternary		Deposits/Quaternary formations
	Hydrogeology		Subterranean hydrology
	Speleology		
	Geophysics		Gravimetry, magnetism, isostasy, …
	Other		Geotechnics, geothermics, speleology, …
Geomorphology	Slopes and sedimentary transfers		Landslides, collapses, subsidence, …
	Fluvial		V-shaped valleys, meandering, river terraces, …
	Glacial		U-shaped valleys, moraines, kame terraces, …
	Karst		Karst formations
	Periglacial		Glacial rocks, protalus rampart, …
	Other		
Cryosphere	Permafrost		Frozen earth
	Glaciology		Glaciers
	Cryology		Snow, avalanches
Climatology	Meteorology, air pollution		Short-term atmospheric parameters, air pollution analyses, …
	Climates		Long-term climatic variations
	Other		
Hydrology	Hydraulic processes		Infiltration, run-off, …
	Water flow		Floods, inundations, …
	Water quality		Pollution, purifications, …
	Sedimentary loads		Alluvial, lava flow, …
	Other		
Biology	Fauna	Vertebrates	Mammals, birds, reptiles, amphibians, …
		Invertebrates	Insects, mollusks, …
	Flora	Cryptogams	Algae, lichens, moss, …
		Phanerogams and ferns	Angiosperms, gymnosperms, ferns, …
	Bacteria, single-celled organisms		Bacteria, microbes, …
	Fungi		
	Other		
Ecology, habitat	Forests		
	Prairies, pastureland, alpine meadows		
	Marsh, humid habitats		Peat bogs, marshes, lakes, rivers, …
	Other		
Soil science and landcover	Soil science		Soil analysis
	Landcover		Topsoil
Modeling			
Natural hazards			All natural risks and hazards
Landscape, heritage and protection			Value-creation, education science, planning, protection

http://rechalpvd.unil.ch

UNIL | Université de Lausanne
Faculté des géosciences
et de l'environnement

RechAlp.vd

Visuals, images	Aerial		Views/photos/aerial images
	Topographic		Altitude, relief maps, …
	Administrative		Units administrative
	Historic maps		Siegfried, Dufour, …
	Scans/MNT/LiDAR/Radar…		"Intelligent" images
	Planning/Infrastructure		Communication, transport, …
	Photos / scans / satellite		
Dating, archeology	Dating		Dating methods (dendrochronology, C^{14}, …)
	Archeology		Artifacts and archeological discoveries
Agriculture			
Medicine			
Mobility			
Tourism			

3.4. Special cases

Certain categories are affiliated with two categories and two sub-categories.

➔ Landslides
- Geomorphology -> Sedimentary slopes and transfers
- Geology -> Hydrology

Certain references are affiliated with just one category and two subcategories.

➔ Geologic value-creation at Diablerets glacier
- Geomorphology -> Glacial
      -> Landscape, heritage and protection

It is sometimes difficult to find the most appropriate category. In order to avoid using the "Other" category, here are some suggestions to guide your search.

➔ Peat bog -> Ecology -> Marshes and aquatic habitats
➔ Salines de Bex -> Geology -> Prealps -> Submedian zone
➔ Avalanches -> Cryosphere -> Cryology
➔ Thermal springs -> Geology -> Hydrogeology
➔ Flooding -> Hydrology -> Water flow

4. Regions

4.1. General points

Whenever possible, references are attributed to a specific location on the RechAlp map by means of a marker.

When a reference has more than 12 distinct places, it is attributed to "All Vaud Alps".

If a reference does not concern a specific place, then it is attributed to "Not Just Vaud Alps".

4.2. Ranking

UNIL | Université de Lausanne
Faculté des géosciences
et de l'environnement

Rech
Alp.vd

Every reference is attributed to one or more "RechAlp Region" and a district.

A search can be done at the district level or at the RechAlp Regional level.

4.3. List of regions

The study area is divided into three districts:
Riviera
Pays-d'Enhaut
Aigle

The study area is then divided into 16 RechAlp Regions, and it then consolidates certain communes to better match scientific interests.

DISTRICT	RechAlp REGION	CONSOLIDATED COMMUNES
Riviera	Vevey	Vevey
		St-Légier – La Chiésaz
		La Tour-de-Peilz
		Blonay
	Montreux	Montreux
		Veytaux
Pays d'Enhaut	Château-d'Oex	
	Rossinière	
	Rougemont	
Aigle	Bex	
	Vallon de Nant	
	Argentine - Anzeinde	
	Vallon de Nant – Argentine – Anzeinde Focal Zone	
	Lavey-Morcles	
	Gryon-Ollon	Gryon
		Ollon
	Ormont-Dessous (Lower Ormont)	
	Ormont-Dessus (Upper Ormont)	
	Aigle-Yvorne	Aigle
		Yvorne
	Leysin-Corbeyrier	Leysin
		Corbeyrier
	Villeneuve-Noville	Villeneuve
		Noville
		Rennaz
		Chessel
		Roche
All Vaud Alps		
Not Just Vaud Alps		

Vallon de Nant and its surroundings (Argentine-Anzeinde) are target zones for FGSE research. In fact, RechAlp was created to facilitate research in these areas. The Vallon de Nant-Argentine-Anzeinde Focal Zone groups together 2 distinct regions, Vallon de Nant and Argentine-Anzeinde.

4.4. Region Map

The study area corresponds to the zone in green. Commune boundaries in red are removed to form the RechAlp Regional boundaries in black. Thick lines show district boundaries. The Vallon de Nant and the Argentine-Anzeinde zones are shown on the small map. These zones make up part of the Bex region and the Aigle district.
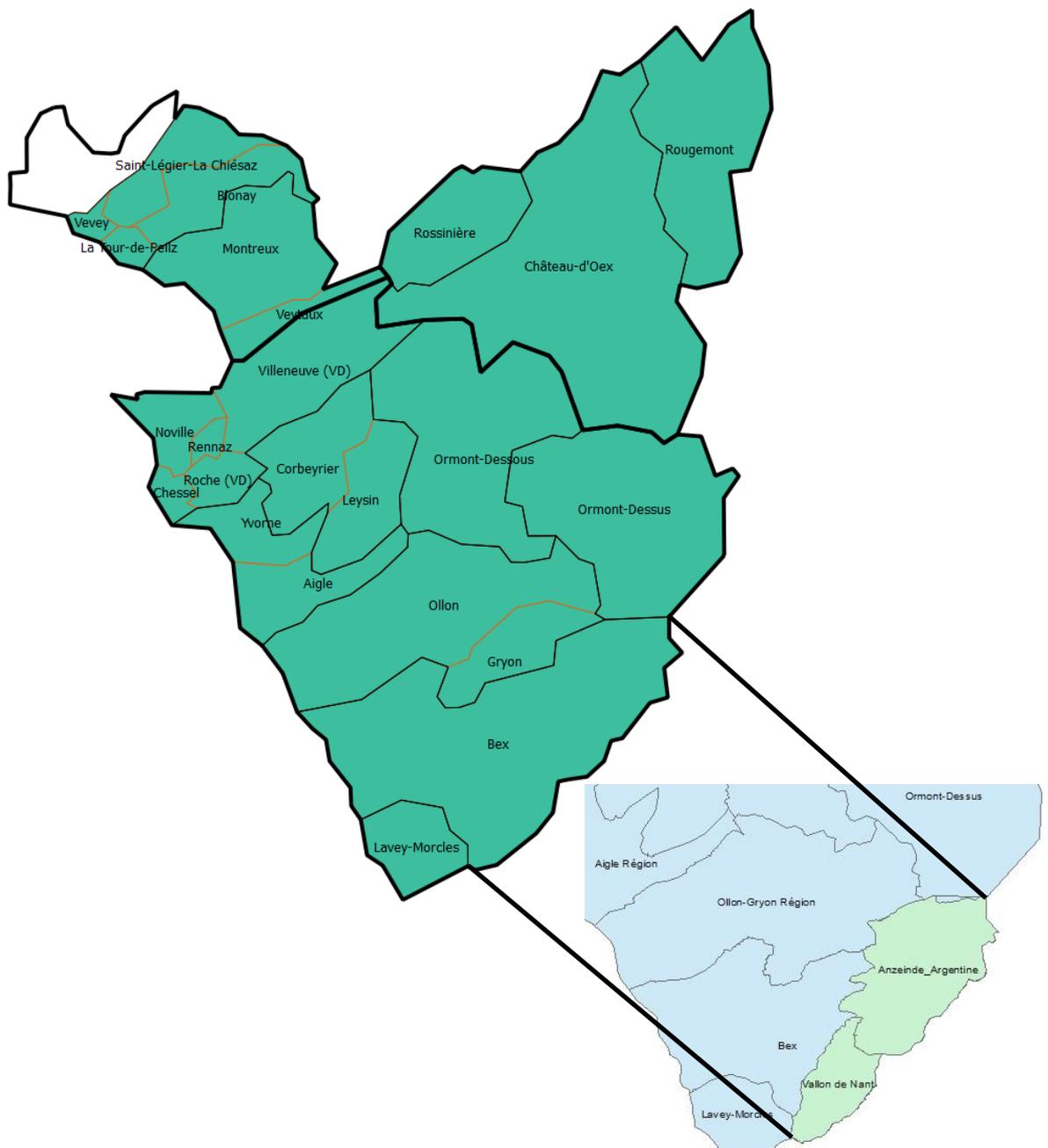

Figure 8: RechAlp Regions Map

http://rechalpvd.unil.ch

4.5. Special Cases

References dealing with the Rhone Valley are affiliated with all of the RechAlp Regions in the tail-waters of the Aigle district.

References for the Ormonts are attributed to Ormont-Dessus (Upper Ormont) and Ormont-Dessous (Lower Ormont).

Geological references related to tectonic units are not affiliated with a RechAlp region except where it was indicated in the article. In any case, nappes and domains do not, not under any circumstances, follow administrative boundaries.

5. Other

Every reference is attributed to one or more other categories.

It is possible to search by author by typing a name in the Basic Search box.

6. Year of publication

6.1. Publication

A search can be done by year of publication.

6.2. Work in Progress

Research work in progress concerning the RechAlp zone are mentioned with the estimated date of publication or marked "in progress".

7. Document Types

7.1. Document Types

The documents are sorted by types.
- Article
- Book
- Booklet
- Conference
- InBook
- Incollection
- Inproceeding
- Manual
- Proceedings
- Technical report
- Unpublished work
- Misc
- PhD Thesis

http://rechalpvd.unil.ch

- Master Thesis
- Data
- Map
- Photograph
- Website
- Poster
- Audio
- GIS
- Manuscript
- Figure/diagram
- Newspaper article
- Event
- Equipment

Searches by review do not seem relevant to this project, so they are not included in the list.

7.2. Maps

Swiss geological atlas 1:25,000 scale: 1 to 3-digit numbers

CN = National Map: 4-digit numbers

Explanatory notes and maps are referenced separately.

7.3. Titles and designations

Bachelors = BSc
Masters = MSc
Doctorate = PhD

8. Complete Bibliography List

It is possible to download a complete bibliography list.

It is equally possible to download a bibliography by theme.

The format for exporting bibliographies is Bib.

http://rechalpvd.unil.ch

9. Institute and Department Names

The names of departments and institutes have changed over the years. A list of names and their abbreviations is used to track changes.

9.1. Faculté des Géosciences et de l'Environnement (FGSE) (Geoscience and Environmental Science Department)

As of 2014 :

ISTE = Institut des Sciences de la Terre (Institute of Earth Sciences)
IDYST = Institut des Dynamiques de la Surface Terrestre (Institute of Earth Surface Dynamics)
IGD = Institut de Géographie et Durabilité (Institute of Geography and Sustainability)

From 2012 to 2013 : (temporary)

ISTE = Institut des Sciences de la Terre (Institute of Earth Sciences)
CRET = Centre de Recherche sur l'Environnement Terrestre (Land Environment Research)
IGD = Institut de Géographie et Durabilité (Institute of Geography and Sustainability)

De 2003 à 2012 :

IG = Institut de Géophysique (Institute of Geophysics)
IMG = Institut de Minéralogie et de Géochimie (Institute of Mineralogy and Geochemistry)
IGP = Institut de Géologie et Paléontologie (Institute of Paleontology)
IPTEH = Institut de Politique Territoriale et d'Environnement Humain (Institute of Territorial Policy and Human Environment)
IGAR = Institut de Géomatique et d'Analyse du Risque (Institute of Geomatics and Risk Assessment)
IGUL = Institut de Géographie de l'Université de Lausanne (Institute of Geography of Lausanne University)

The Bio-geosciences Masters program is connected to the Institute of Earth Sciences at the University of Lausanne and at the University of Neuchâtel.

Before 2003 :

Faculté des Sciences (Science Department)
Section des Sciences de la terre (SST) (Earth Sciences Program)
Faculté des Lettres (Liberal Arts Department)
Institut de Géographie de l'Université de Lausanne (Institute of Geography of Lausanne University)

9.2. Faculté de Biologie et de Médecine (FBM) (Biology and Medicine Department)

DEE = Département d'Ecologie et Evolution (Department of Ecology and Evolution)
DMF = Département de microbiologie fondamentale (Department of Fundamental Microbiology)
DBMV = Département de biologie moléculaire végétale (Department of Plant Molecular Biology)

http://rechalpvd.unil.ch