

# Rock glaciers, Upper Engadin, Switzerland, Version 1

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## USER GUIDE

### How to Cite These Data

As a condition of using these data, you must include a citation:

Hoelzle, M 1998. *Rock glaciers, Upper Engadin, Switzerland, Version 1*. [Indicate subset used].  
Boulder, Colorado USA. NSIDC: National Snow and Ice Data Center. <https://doi.org/10.7265/m788-dk57>. [Date Accessed].

FOR QUESTIONS ABOUT THESE DATA, CONTACT [NSIDC@NSIDC.ORG](mailto:NSIDC@NSIDC.ORG)

FOR CURRENT INFORMATION, VISIT <https://nsidc.org/data/GGD288>



National Snow and Ice Data Center

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**Notice:** This data set was first published on the [1998 CAPS CD](#).

The text for this document was taken unchanged from that CD.

# 1 DATA DESCRIPTION

## 1.1 Coverage of Data Set

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### 1.1.1 Study Location

Upper Engadin, Eastern Swiss Alps

### 1.1.2 Geographic Extent

latitude: 46 22' N and 46 33'

longitude: 9 44' E and 9 58'

### 1.1.3 Period of Investigation

Inventory of rock glaciers: 07.09.1988

## 1.2 Summary Description

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The investigated region is called Upper Engadin and is situated in the Eastern part of the Swiss Alps. The area is characterized by a high situated valley floor with an average altitude of 1700 m a.s.l. This valley has a very smooth slope in the direction from SW to NE and is characterized by the river Inn and some larger lakes (Lake Sils, Lake Silvaplana, Lake Champfer and Lake St. Moritz). At uppermost part the valley breaks sharply down to the valley of the Maira river in the Bergell mountains. Three categories of rock glaciers were mapped: a) 97 active rock glaciers, b) 47 inactive rock glaciers and c) 26 fossil or relictic rock glaciers. The mapping was performed with Infrared aerial photographs taken by the Swiss Federal Office of Cadastral Surveys (Vermessungsdirektion). The scale of the photographs is around 1:52000. The data are described in Hoelzle (1989, unpublished). Data included on the CAPS CD-ROM Version 1.0 include type, elevation, length/width, exposition, and position.

The following parameters of each rock glacier were measured:

Front elevation [m a.s.l.],  
source elevation [m a.s.l.],  
length [m],  
width [m],  
front exposition,  
source exposition,

coordinates [Swiss national system]

Current storage of data - Mark with X as many as are appropriate, or delete those that do not apply:

Paper X  
Wordprocessor file(s) X

These data are at risk of being lost.

## 2 CONTACTS AND ACKNOWLEDGMENTS

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## 3 REFERENCES

Hoelzle, M. 1989. Untersuchungen zur Permafrostverbreitung im Oberengadin. Diploma thesis at the ETH-Zurich. 79 p. Unpublished.

## 4 DOCUMENT INFORMATION

### 4.1 Publication Date

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1998

## 4.2 Date Last Updated

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