

Country Profile: Switzerland

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Country Resources

Topographic

Series	Publisher	Scale	Years	Sheets
Switzerland 1:25,000 Scale Topographic Maps	Federal Office of Topography Switzerland	1:25,000	1989 - 2010	252
Switzerland 1:50,000 Scale Topographic Maps	Federal Office of Topography Switzerland	1:50,000	1997 - 2010	78
Switzerland 1:100,000 Scale Topographic Maps	Federal Office of Topography Switzerland	1:100,000	-	23
Switzerland 1:200,000 Scale Topographic Maps	Federal Office of Topography Switzerland	1:200,000	2009 - 2009	4
Switzerland 1:300,000 Scale Topographic Map	Federal Office of Topography Switzerland	1:300,000	2012 - 2012	1

Aeronautical

Series	Publisher	Scale	Years	Sheets
Austria 1:500,000 Scale Aeronautical Chart	Deutsche Flugsicherung	1:500,000	2016 - 2016	1
France 1:500,000 Scale Aeronautical Charts	Institut Geographique National	1:500,000	2016 - 2016	6

Geoscientific

Series	Publisher	Scale	Years	Sheets
Switzerland 1:200,000 Scale Geological Maps	Swiss Geological Survey	1:200,000	1942 - 1964	8
Switzerland 1:500,000 Scale Geological Map	Swiss Geological Survey	1:500,000	2005 - 2005	1

Thematic

Series	Publisher	Scale	Years	Sheets
The World 1:30,000,000 Scale Topographic Map Series 1145 (NGA)	DMA	1:30,000,000	-	2

Global Census Archive: GIS Census Data

East View Geospatial has an ongoing effort to add GIS census data to our Global Census Archive program. Please contact us for the status and availability of Switzerland census resources.

Global Resources

Topographic

Series	Publisher	Scale	Years	Sheets
Soviet Military City Plans	Voенно-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	Varies	1944 - 2003	3017
Soviet Military 1:100,000 Scale Topographic Maps	Voенно-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	1:100,000	1947 - 1999	24897
Soviet Military 1:200,000 Scale Topographic Maps	Voенно-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	1:200,000	1949 - 2009	17799
Soviet Military 1:500,000 Scale Topographic Maps	Voенно-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	1:500,000	1953 - 1998	3093

Nautical

Series	Publisher	Scale	Years	Sheets
NGA Nautical Charts POD Certified (All Scales)	National Geospatial-Intelligence Agency	Varies	1943 - 2013	4517

Aeronautical

Series	Publisher	Scale	Years	Sheets
Joint Operations Graphic (JOG) 1:250,000 - Aeronautical	Defence Mapping Agency	1:250,000	1958 - 2007	4204
Tactical Pilotage Chart (TPC) 1:500,000 Scale - Aeronautical	Defence Mapping Agency	1:500,000	1967 - 2006	598
Operational Navigation Chart (ONC) 1:1,000,000 Scale - Aeronautical	Defence Mapping Agency	1:1,000,000	1969 - 2001	243
Jet Navigation Chart (JNC) 1:2,000,000 Scale - Aeronautical	Defence Mapping Agency	1:2,000,000	1971 - 1999	117
Global Navigation and Planning Chart (GNC) 1:5,000,000 Scale - Aeronautical	Defence Mapping Agency	1:5,000,000	1981 - 1999	27

Geoscientific

Series	Publisher	Scale	Years	Sheets
Soviet Military 1:1,000,000 Scale Topographic Maps	Voenno-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	1:1,000,000	1948 - 1994	1089

Note: East View Geospatial is continuously sourcing new resources that may not yet be listed in Global Explorer. Please contact us if you have geodata needs beyond what is listed above and we will be happy to discuss available off-the-shelf and custom solutions.

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Historical Country Mapping Information

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Topographic

The national Swiss mapping agency is the **Federal Office of Topography in the Ministry of Defence (Bundesamt für Landestopographie (BLT))**. Its history can be traced back to the establishment of a survey office in Geneva in 1838. The country was mapped in the nineteenth century at 1:100,000 scale in the *Dufourkarte* and at 1:25,000/1:50,000 scale in the *Siegfriedkarte*, issued as the *Topographische Atlas*. **BLT** headquarters are now located in Wabern and it is responsible for geodetic and topographic surveying of the country and publication of national topographic map series. The basis of this modern mapping of the country was defined in a 1935 federal law which fixed integrated official mapping scales at 1:25,000, 1:50,000, 1:100,000 1:200,000, 1:500,000 and 1:1,000,000. 1:50,000 scale series mapping was completed in 1960, 1:100,000 in 1964 and 1:25,000 in 1979. All use a conformal conic projection and incorporate very effective use of hill shading. **BLT's** principal role is the maintenance of a six-year revision cycle for the 350 photogrammetric maps in these series.

The 1:25,000 scale series comprises 249 eight-color maps, with 10 m contour interval (20 m in mountainous areas); the 1:50,000 scale series in six-colors has 20 m contours and the 1:100,000 scale in 10 colors with a 50 m contour interval is available with or without a kilometric grid overprinted in violet. A separate legend is published to explain the symbols used on these maps. A range of larger format composite maps of tourist areas are published in all three scales, and overprinted ski and walking editions of the 1:50,000 scale map are available for many areas, in association with the *Schweizerische Arbeitsgemeinschaft für Wanderwege* and the *Schweizerische Skiverband*.

The 1:200,000 scale map completed in 1976 is regularly revised, and covers the country in four sheets, with relief shown by hill shading and 100 m contours. These maps incorporate a legend, and some tourist information, and are also used to produce the single sheet

1:300,000 map of the country. A new 1:1,000,000 map was started in 1985, replacing the long established map at this scale. This single sheet was printed in 1994 with hypsometric tints from a Scitex system in two versions: a ten-color normal edition and an eight-color geophysical version without cultural features and names.

Two digital height models for the country have been established: the *RIMINI* model with 250 m resolution; and a new product *DHM25*, completed in 1996, with a 25 m resolution and 1,600 height values per kilometer, captured from 1:25,000 scale contours. Two structured digital map databases are also available: the *VECTOR-200* database, with complete coverage of the country in 11 layers from the 1:200,000 scale series; and the *VECTOR25* captured from 1:25,000 scale mapping, which is still in progress, has been captured for the plateau areas of the country. As a by-product of the digital data capture a digital production flowline has been implemented, and national hard-copy map series are currently updated in hybrid raster/vector mode.

Soviet military topographic mapping of Switzerland exists at the following scales: 1:1,000,000 (2 sheets, complete coverage, published 1985-1987); 1:500,000 (5 sheets, complete coverage, published 1985-1992); 1:200,000 (18 sheets, complete coverage, published 1986-1990); 1:100,000 (49 sheets, complete coverage, published 1985-1989); 1:50,000 (157 sheets, complete coverage, published 1984-1988) and city (1:10,000) topographic mapping of 9 major cities from Basel to Zurich published between 1952 and 1981. These products are available in print, digital raster and digital vector GIS formats from **East View Geospatial**.

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Aeronautical

Aeronautical charts of the country are compiled and updated on a regular basis for **Bundesamt für Zivilluftfahrt (BAZL)**. These include a single sheet ICAO-specification 1:500,000 scale visual chart, a 1:300,000 scale glider chart and a series of 22 1:100,000 scale obstacle charts.

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Geological/Scientific

Geological mapping of Switzerland was the responsibility of **Commissions of the Swiss Academy of Sciences**, the **Schweizerische Geologische Kommission (SGK)**, **Schweizerische Geotechnische Kommission (SGtK)**, the **Schweizerische Geophysikalische Kommission (SGpK)** and the **Hydrologische Kommission**. In 1986 a major reorganization of these responsibilities was carried out. **Landeshydrologie und -geologie (LHG)** is now responsible for the main geological series and for hydrological mapping, and falls administratively within the national environmental office **Bundesamt für Umwelt, Wald und Landschaft (BUWAL)**. The main series is the 1:25,000 scale *Geologischer Atlas der Schweiz*. Recent work carried out by **LHG** has involved the establishment of a digital 1:500,000 database of the country, with coverages captured from geological, tectonic and hydrogeological maps. Experimental digital 1:100,000 geological coverage was compiled in 1995.

The **Schweizerische Geotechnische Kommission (SGtK)** was founded in 1899 and publishes mapping relating the industrial use of minerals and rocks. It maintains a 1:200,000 scale geotechnical map of the country, the latest edition of which was published on CD-ROM between 1997 and 2000. **SGtK** is compiled a four-sheet 1:200,000 scale map of mineral resources as well as 1:100,000 scale hydrogeological mapping of selected areas and 1:10,000 scale soil maps of Baden, Schaffhausen and Bern. All these maps are issued with explanatory texts. Geophysical mapping of the country is carried out by the **Schweizerische Geophysikalische Kommission (SGpK)** including a 1:100,000 scale Bouguer anomaly series started in 1994 and 10 thematic maps at 1:500,000 scale.

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Soil

Soils mapping of Switzerland was started by **Eidgenössischer Forschungsanstalt für Landwirtschaftliche Pflanzenbau** in 1981 and

is currently the responsibility of the **Eidgen-össischer Forschungsanstalt für Agrarökologie und Landbau (EFAL)**. EFAL has published about 15 full-color maps in a 1:25,000 scale series as well as smaller scale land capability mapping.

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Thematic

Programs of regional earth science and environmental mapping are also carried out by some of the cantonal authorities, notably for Bern by the **Amt für Gewässerschutz und Abfallwirtschaft** and the **Wasser und Energiewirtschaftsamt** who jointly publish 1:100,000 scale groundwater and hydrothermal maps and a 32-sheet 1:25,000 scale water protection series.

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Atlas

BLT is also involved in the production and publication of three important thematic atlases. The national *Atlas of Switzerland* is an ongoing atlas project, commissioned by the **Swiss Federal Council** and published by **BLT** as a series of looseleaf folio instalments in its first series from 1965 to 1978 under its Editor in Chief **Eduard Imhof**. Since 1981 a second series has been in progress, under **Ernst Spiess**, which updates and expands the earlier mapping. The thirteenth instalment in the atlas program was published in 1997, and the atlas now contains about 600 maps, mostly at 1:500,000. From 1995 plans have been made for a new dual version of the national atlas comprising a printed component serving as an illustrated booklet with map section, and a multi-media interactive component on CD-ROM. The new edition is published in the three national languages and English and is maintained by the **Institute of Cartography, ETH** in Zurich.

The **Schweizerische Meteorologische Anstalt** is collaborating with **BLT** in the publication of the *Klimaatlas der Schweiz*. Like the national atlas this thematic work is being published in instalments, five parts have been issued from 1982 to 1995. The overall aim of the project is to collate the results of investigations into regional climatic variation in the country. The most recent atlas project is the *Hydrologischer Atlas der Schweiz*, this too is being issued in instalments and involves the collaboration of researchers from the **Geographisches Institut Universität Bern**, together with **BLT's** experience in cartographic printing and the publication expertise of the **Eidgenössischer Drucksache und Materialzentrale (EDMZ)**. The first three instalments were published in 1992, 1995 and 1997, and the project includes mapping in English, French, German and Italian languages, with 1:500,000 chosen as the standard map scale.

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Cadaster

Large scale mapping of Switzerland has been carried out by many different cantonal and municipal surveying authorities. 97 percent of the country is covered by 1:5,000 / 1:10,000 scale base mapping, with 10 m contour intervals, itself often in part derived from larger scale cadastral mapping varying in scale from 1:200 in some urban areas to 1:10,000 in some more remote mountainous parts of the country. These maps are updated irregularly and are gradually being captured as digital data by the different cantons: some have been scanned, others established as a vector component to structured land information databases.

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Tourist/Reference

Many of the private sector cartographic houses in Switzerland have renowned reputations for their small-scale tourist, motoring and educational map publications. **Kummerly + Frey (K+F)** was founded in 1852 and has grown into one of Europe's most important

commercial mapmakers. It maintains a range of general maps of Switzerland, town maps, and two series of 1:60,000 scale for hikers and cyclists. In addition **K+F** produces physical and political country maps, and a wide variety of maps for motorists covering most of Western Europe at scales of 1:250,000 or larger. A new product marketed from 1996 was the *Swiss tour guide* on CD-ROM, with the Swiss road map, eight city and transit maps for the major cities, together with linked tourist information. Other CD-ROM initiatives include *TraficPac*, an automated route-finder with 5,000 destinations, and *RadPac*, aimed at the leisure cyclist. Other electronic route-finding packages are available from **Amadeus Informatik**, **Finajour**, and **Stänz Informatik AG**.

Hallwag publishes road maps, continental reference maps and a range of panoramic maps of Alpine areas. It distributes the City Flash series and other town maps of the world's major cities. **Orell Füssli Kartographie AG** publishes motoring and general maps of Switzerland and a wide range of Swiss town maps, under the Photoglob label. **Topmap Kartenverlag** publishes mapping derived from aerial coverage and often using satellite image or air photo bases. Their range includes the *Helvetikus CD-ROM* a multimedia electronic atlas of Switzerland, including a wide range of interactive image-based mapping supplemented with cultural and physical detail. In addition they publish town maps for eleven Swiss towns, and by the end of 1999 had published a range of 70 birds-eye-view walking maps. **Inter-Survey Consultants**, Geneva maintains urban vector digital databases of Geneva and Zurich, which it markets under the *Urba carta* label.

Other small commercial cartographic houses include **Schad + Frey**, who issue a range of walking maps including coverage of Liechtenstein, **Zubler-Ohler**, which produces raised relief models of the Alps and other significant mountainous areas, **Karto Atelier** **Arne Rohweder** which concentrates upon the publication of panoramic and walking maps of mountainous areas, **Waeger & Partner**, and **Fahrplan-Center**, a specialist railway publisher.

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Census/Demography/Statistics

The **Bundesamt für Statistik (BS)** compiles small scale statistical mapping of Switzerland. A 1:300,000 scale land use map of the country was published in 1994. In addition **BS** has developed the GEOSTAT GIS, from a system initially based upon planning data sets, into a national GIS integrating a very great diversity of thematic data. Whenever possible the system uses vector data derived from 1:25,000 scale mapping, or captured in grid units of 1 ha. This system includes digital data sets relating to administrative boundaries, land use, population (including 389 attributes from the latest census for all the municipalities in the country), planning constraints, land classification information, and land suitability, in addition to relief, hydrological and topographic data.

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