

SCHWARZMILZFERNER, AUSTRIA, 1:2500

(Orthophoto map)

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Schwarzmilzferner is a glacieret or perennial snow patch existing at a low altitude within the humid northern margin of the Alps. It is located in the Allgäu Alps, Austria, next to the Bavarian/Austrian border at 10° 16' E and 47° 17' N. In 1984 and 1985, old maps and aerial photographs were evaluated in a comprehensive geodetic study in order to determine the fluctuations of the ice body over the past few decades. The present orthophoto map was produced as part of this study.

Aerial photographs from 10 August, 1971 were used. Unfortunately, the territory of Bavaria had been removed on these photographs. Contour-lines were obtained by on-line plotting. In order to derive the control profiles at 20m-intervals a Digital Terrain Model (DTM) was generated. DTM data acquisition and interpolation were carried out using computer programs (PROSA and HIFI) available at the institute. Contour drawing and DTM data acquisition were done with an analytical plotter (Zeiss Planicomp C 100). Cartographic work was also performed at the Institute of Cartography and Reproduction Technique in Munich, whereas the differential rectification was carried out at the Institute for Applied Geodesy in Frankfurt/Main using an orthoprojector Orthocomp C 2. For the offset printing, the photo was screened with a halftone (60 lines per centimeter).

The Bavarian Board of Surveying printed the map in black and white, and the Commission for Glaciology of the Bavarian Academy of Sciences, Munich, acted as publisher.