

Maps

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Simen Mountains – Ethiopia
Volume I

Cartography and its Application for Geographical and Ecological Problems

Edited by B. Messerli and K. Aerni

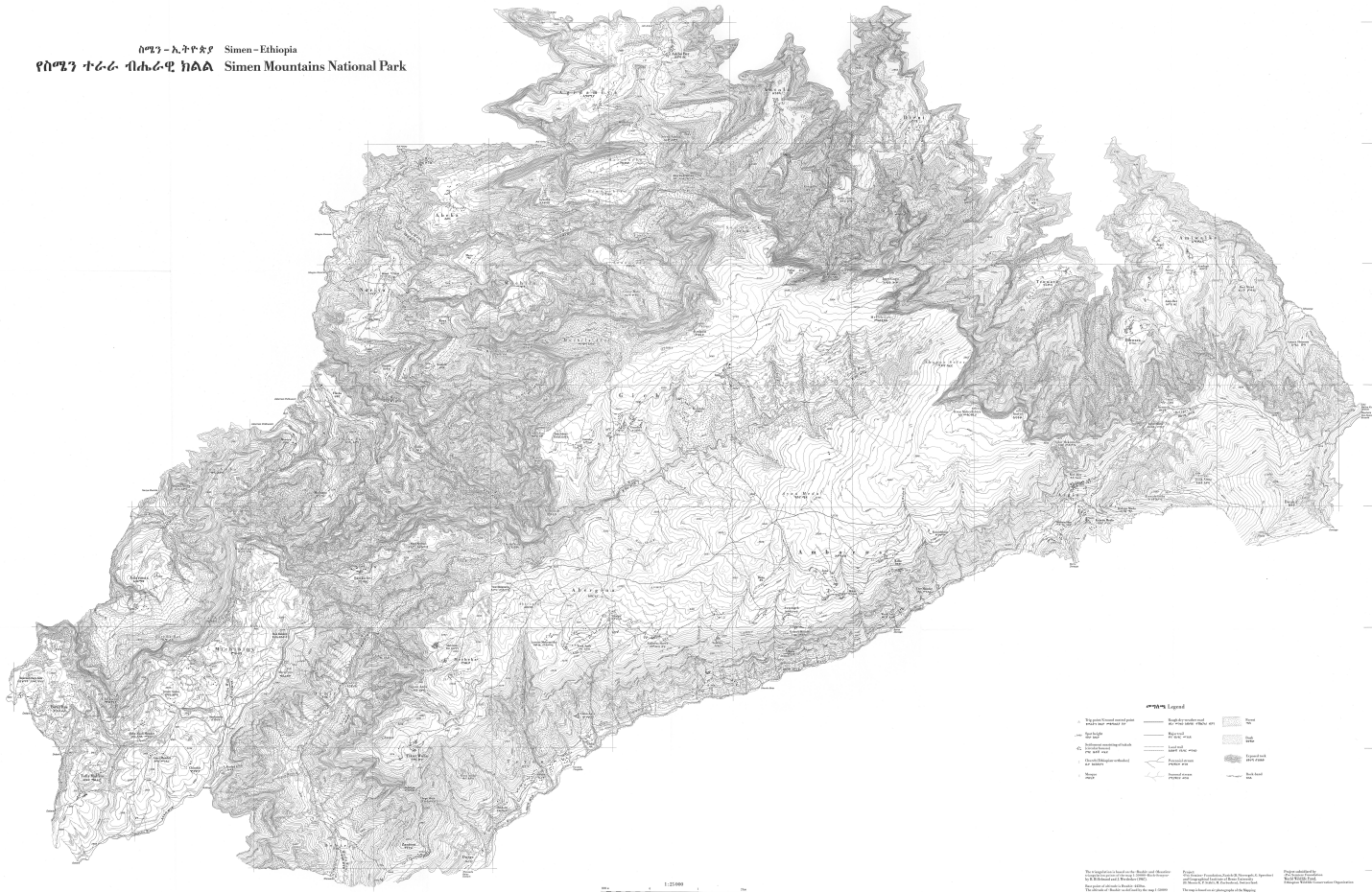
Maps

- P. Stähli and M. Zurbuchen: Two Topographic Maps 1:25 000
“Simen Mountains National Park”, Ed. 1977
“Debark”, Ed. 1977
- P. Stähli: “Changes in Settlement and Land Use in Simen,
Ethiopia, from 1954 to 1975”, 1:17 500
- R. Nägeli: “Debark – Functional Structure of an Ethiopian
Market Town”, 1:2000
“Debark – Growth of Settlement and Forest
between 1964 and 1976”, 1:5000
- H. Hurni: “Soil Erosion, Upper Jinbar Valley, Simen-Ethiopia”,
1:25 000
- K. Aerni: “Simen (Ethiopia) – Panorama Imet Gogo 3926m”

Contribution of the Commission on Mountain
Geocology (International Geographical Union)



ሰሜን-ኢትዮጵያ Simen-Ethiopia
 የሰሜን ተራራ ብሔራዊ ክልል Simen Mountains National Park

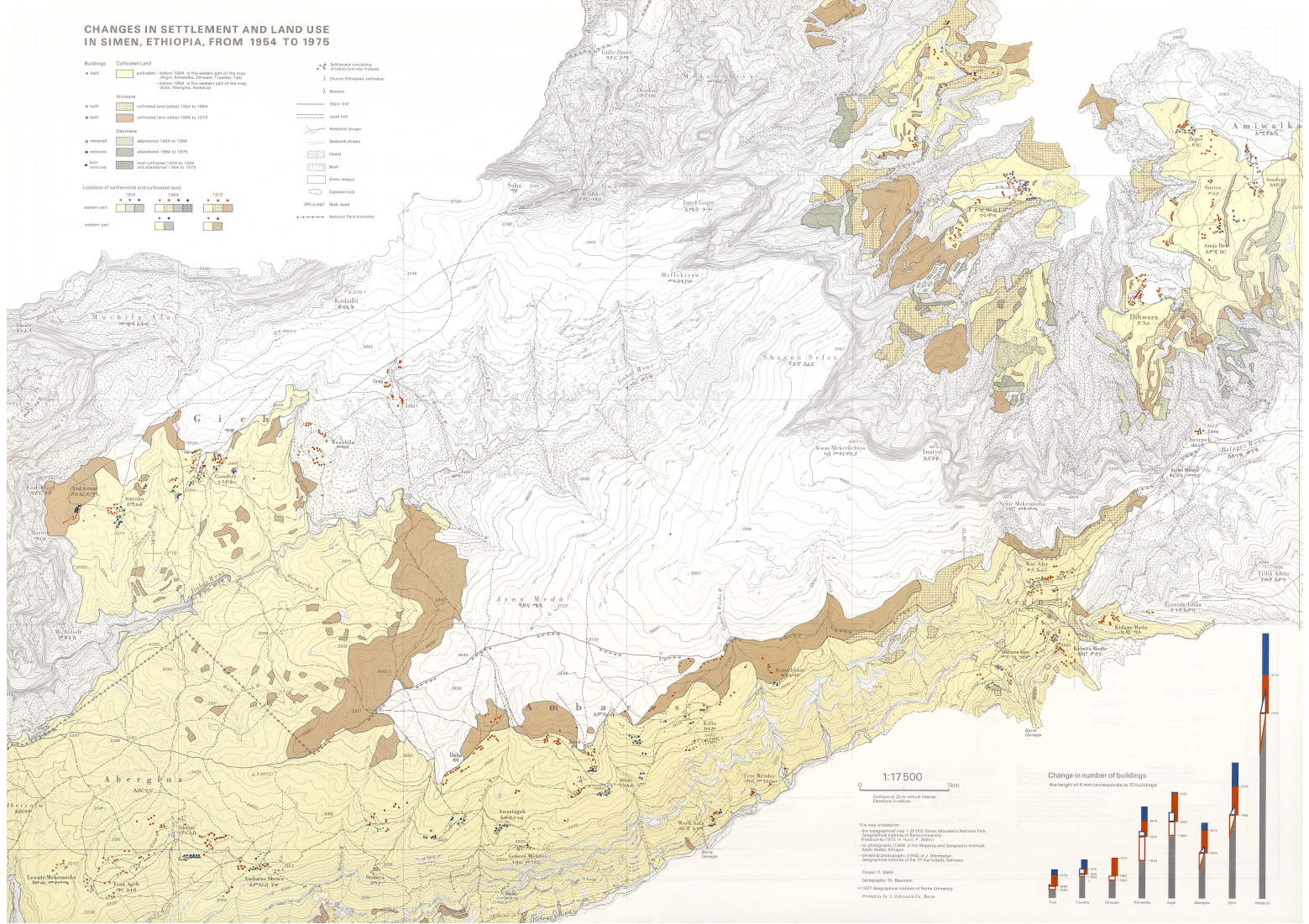
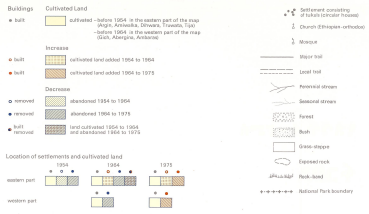


- ማህበራዊ ርዕሰ ጉዳይ**
- 1. የሰሜን ተራራ ብሔራዊ ክልል
 - 2. የሰሜን ተራራ ብሔራዊ ክልል ወረዳዎች
 - 3. የሰሜን ተራራ ብሔራዊ ክልል ወረዳዎች ወረዳዎች
 - 4. የሰሜን ተራራ ብሔራዊ ክልል ወረዳዎች ወረዳዎች
 - 5. የሰሜን ተራራ ብሔራዊ ክልል ወረዳዎች ወረዳዎች
 - 6. የሰሜን ተራራ ብሔራዊ ክልል ወረዳዎች ወረዳዎች
 - 7. የሰሜን ተራራ ብሔራዊ ክልል ወረዳዎች ወረዳዎች
 - 8. የሰሜን ተራራ ብሔራዊ ክልል ወረዳዎች ወረዳዎች
 - 9. የሰሜን ተራራ ብሔራዊ ክልል ወረዳዎች ወረዳዎች
 - 10. የሰሜን ተራራ ብሔራዊ ክልል ወረዳዎች ወረዳዎች

1:50000
 Scale of the map
 0 1000 2000 3000 4000 5000 meters

The map was prepared by the Survey and Mapping Authority of Ethiopia (SMAE) in cooperation with the Simen Mountains National Park. The map is based on the 1:50,000 scale topographic map of the area. The map is a product of the SMAE and is intended for use by the Simen Mountains National Park. The map is a product of the SMAE and is intended for use by the Simen Mountains National Park.

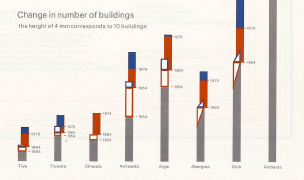
**CHANGES IN SETTLEMENT AND LAND USE
IN SIMEN, ETHIOPIA, FROM 1954 TO 1975**









1:17 500
0 1km
Distance at 20cm vertical interval
Elevation in meters

The map is based on:
- the topographic map 1:25 000 Simen National Park,
Geographical Institute of Bonn University,
Frankfurt 1955 in part 1: 25000
- an unpublished map of the Mapping and Geopgraphy Institute,
Geographical Institute of Bonn University,
Frankfurt 1964
- a unpublished map of the Mapping and Geopgraphy Institute,
Geographical Institute of Bonn University,
Frankfurt 1964

Project: 1980
Cartography: H. Buerger
© 1977 Geographisches Institut der Rheinischen
Friedrich-Wilhelms-Universität Bonn



KEY FOR TOPOGRAPHIC SITUATION

-  Fence of brushwood or tin
-  Minor Road or Path (schematically surveyed, no classification)
-  Perennial Stream
-  Seasonal Stream
-  Eucalyptus-Forest
-  Contour, Interval 10 metres

SIMEN-DISTRICT (AWRAJA) – ETHIOPIA











**DEBARK – Growth of Settlement
and Forest between 1964 and 1976**

1 : 5000

Ruedi Nägeli · Institute of Geography · University of Berne · Switzerland



**KEY FOR VARIATIONS OF SETTLEMENT
AND FOREST**

-    Rectangular or round Houses existing in 1964
-   Houses constructed between 1964 and 1976
-   Houses broken down between 1964 and 1976
-  Eucalyptus-Forest existing in 1964 and 1976
-  Eucalyptus-Forest cleared between 1964 and 1976
-  Eucalyptus-Forest afforested between 1964 and 1976

Scale 1 : 5000



SOURCE MATERIALS

Topographic situation after an aerial photograph of The Mapping and Geography Institute (Addis Ababa, 1964), based on a triangulation by P. and S. Stähli and H. Hurni, a photogrammetric interpretation by The Institute of Photogrammetry and Engineering Survey M. Zurbuchen, and a complete verification and revision in the field at the scale 1:2000 in 1976 by R. Nägeli.

Variations of settlement and forest after a comparison of the aerial photograph of 1964 and the field survey of 1976.

Cartography by R. Nägeli and M. Zurbuchen

Phototypesetting by Schad + Frey AG, Institute of Cartography (Berne)
Printed by Fa. E. Colloud & Co. (Berne)

The field work has been supported by The Theodor-Schenk-Foundation (University of Berne) and The Popularis Travelling Agency (Berne).

N. B. Because of the dense covering through forest in several parts of the aerial photograph, probably some houses have not been identified for the situation of 1964.

SIMEN-DISTRICT (AWRAJA) – ETHIOPIA
**DEBARK – Functional Structure
of an Ethiopian Market Town**

1:2000 – Field work 1976

Ruedi Nägeli · Institute of Geography · University of Berne · Switzerland



KEY FOR TOPOGRAPHIC SITUATION

- Fence of brushwood or tin
- Mirror Flood or Path (schematically surveyed, no classification)
- Perennial Stream
- Seasonal Stream
- Eucalyptus-Forest
- Contour, Interval 10 metres

SOURCE MATERIALS

Topographic situation after an aerial photograph of The Mapping and Geography Institute (Addis Ababa, 1964), based on a triangulation by F. and S. Sjöström and H. Hurni, a photogrammetric interpretation by The Institute of Photogrammetry and Engineering Survey (M. Zschokke), and a complete verification and revision in the field at the scale 1:2000 in 1976 by R. Nägeli. Construction and function of houses surveyed by R. Nägeli. Cartography by R. Nägeli and M. Zschokke.

Photostereoscopic by Schmid-Frey AG, Institute of Cartography (Bern) Printed by F. E. Colliard & Co. (Bern)

The field work has been supported by The Theodor Schenk Foundation (University of Berne) and the Prochaska Travelling Agency (Bern).

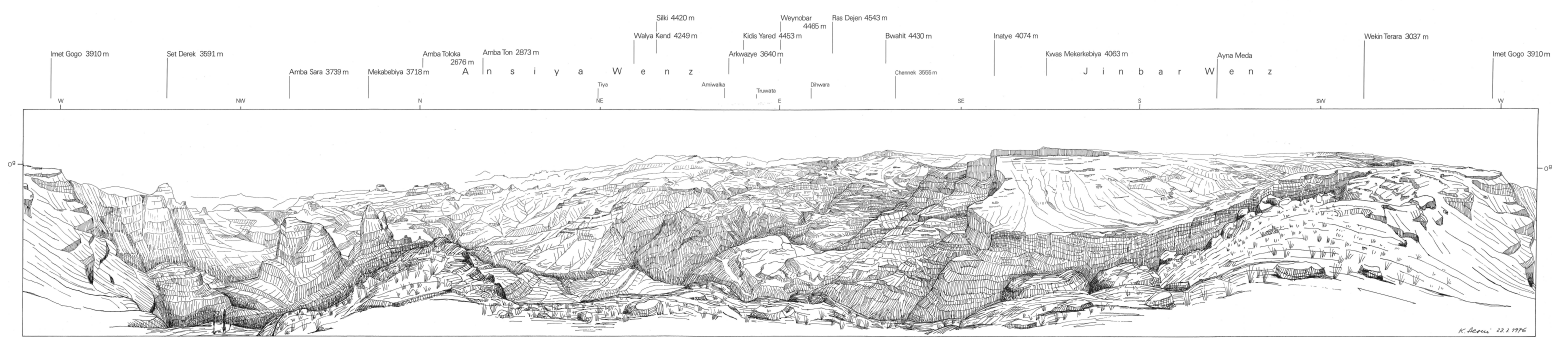
N.B. The distribution of buildings and the different functions change over short periods of time, so that the situation shown here for 1976 does not necessarily prevail today.



Scale 1:2000

KEY FOR FORMAL AND FUNCTIONAL IDENTIFICATION OF HOUSES

- Construction**
- Brick-House, single or serial. Usually made of wood and clay. Sometimes with foundation of stones, faced with tin or painted. Comparted iron roof.
 - Gimb-House, made of stones, bricks or cement.
 - House under construction.
 - Tukul, made of wood and clay. Grass-roof.
 - Empty house.
- Functional Classification**
- Trade and Market**
- Retail-Shop or Kiosk
 - Store of Wholesaler
 - Periodic Weekly Market
 - Daily Market
- Crafts**
- Tailor
 - Weaver
 - Smith
 - Butcher
 - Barber
 - Laundry
 - Grinding-Mill
- Hotels and Taverns**
- Hotel
 - Lodging
 - Eating-House
 - Tea-House
 - Bar or Araki-House
 - Far-House
 - Tulla-house
- Public Services and Supply**
- Public School
 - Health School
 - Preparatory School
 - Post Office
 - Telecommunications
 - Health Station
 - Mosque
 - Power Station
 - Gasoline Station
 - Public Well in use, out of use
- Administration**
- Administration Office
 - Ministry of Education
 - EPID - Ministry of Agriculture
 - Ministry of Finance
 - Ministry of Land Reform
 - Veterinary Department
 - District Governor
 - District Police
 - Sub-district Governor
 - Sub-district Court
 - Eastern Local Community
 - Western Local Community
 - Weaver Association
 - Ethiopian Wildlife Conservation Organization (Sewel)
- Living and Various**
- Living House, usually with kitchen. These units may include some functions which cannot be surveyed correctly, such as basket-making, spinning, temporary shops, temporary stable etc.



SEMEN (Äthiopien) – PANORAMA VOM IMET GOGO 3926 m
 Standort: 38° 9' 56" Ost Länge, 13° 17' 46" Nord Breite

SIMEN (Ethiopia) – PANORAMA IMET GOGO 3926 m

Soil Erosion

1:25000

Upper Jinbar Valley
Simen – Ethiopia

Hans Hurni
Institute of Geography
University of Berne

Cartography:
Ingrid Hoack
Department of Cartography
Swiss Federal Institute of Technology Zurich

Imet Gogo
3926.0

Field completion: 1974

