

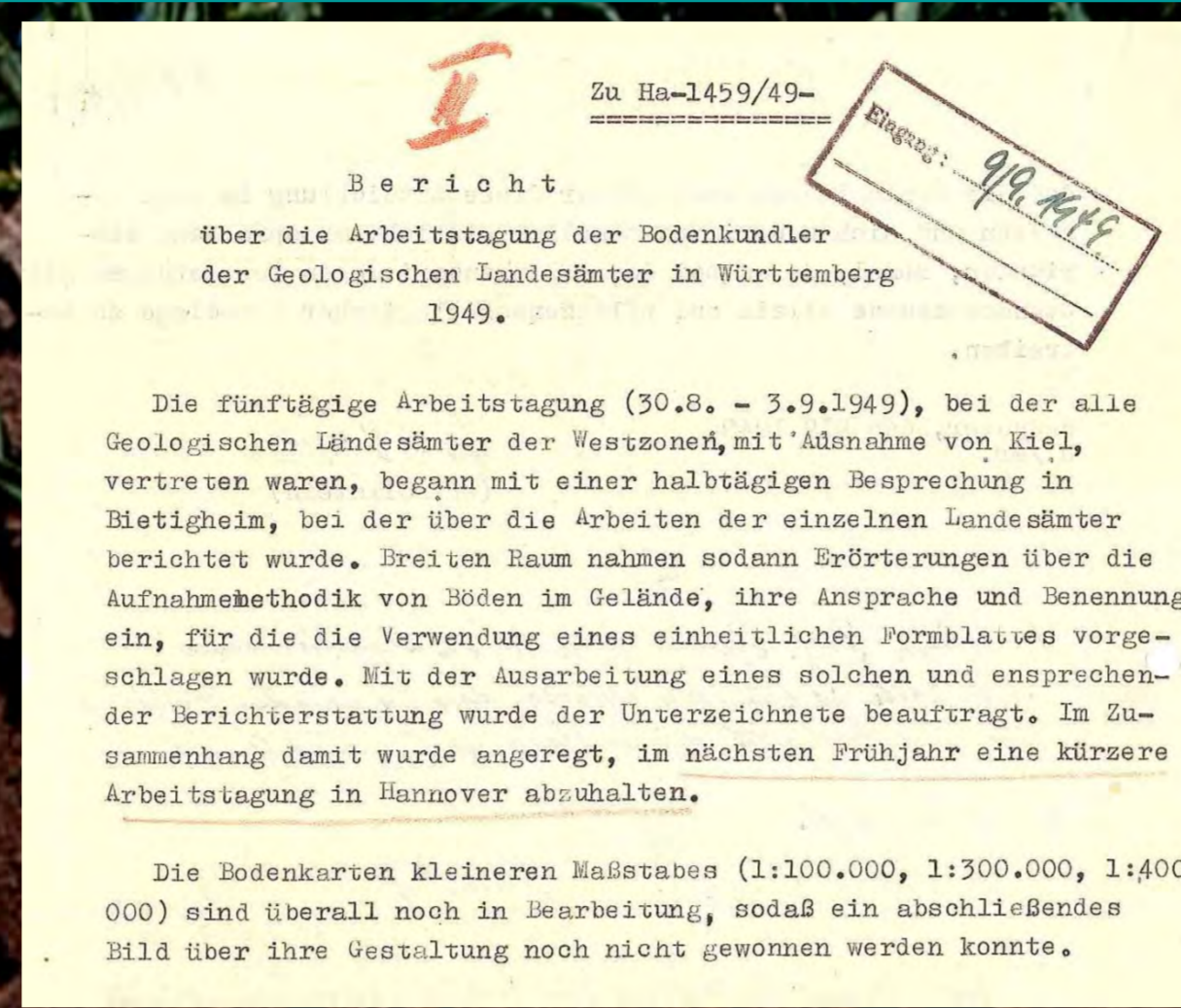
How to coordinate soil information across political boundaries. A 1:200,000 approach.

by Eckelmann, W.¹⁾, Krug, D.¹⁾, Stegger, U.¹⁾



History

The coordination of the current soil mapping and processing of soil information in Germany was launched in 1946 through a network of the heads of the respective soil surveys of the West German federal state agencies. Since the reunification of Germany in 1990, the "Ad hoc Working Group Soil" consists of one member of each of the 16 federal states and the national authority BGR respectively.



Tagung der Bodenkundler in Hannover

Name	Dienststelle
1. Amke	Geol. Land. Würtemberg
2.
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Ad-hoc-AG Boden

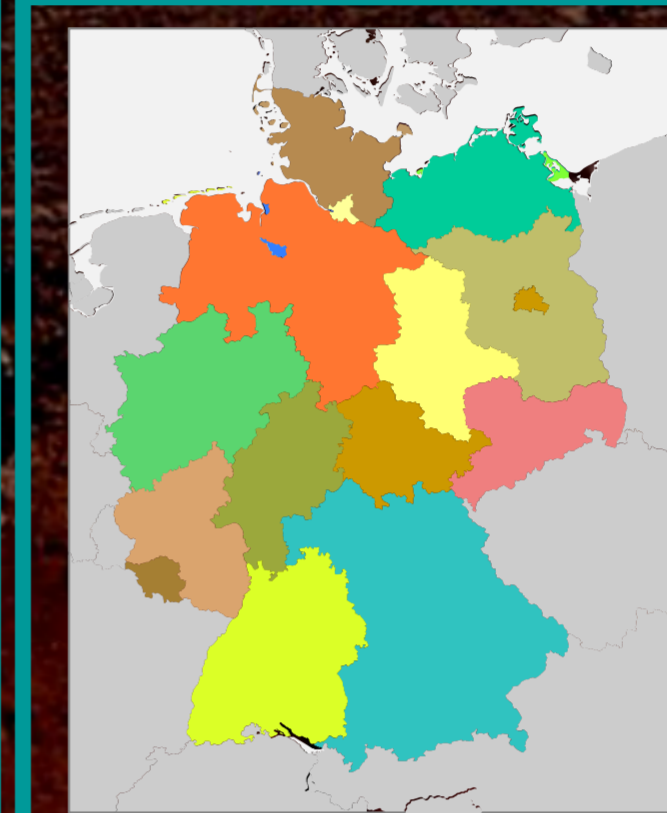
Members of the Ad-hoc-AG Boden

- Dr. Wolf Eckelmann (chair)
- Dr. Wolfgang Fleck
- Dr. Walter Martin
- Dr. Dieter Kühn
- Dipl.-Ing. Irene Petschelis
- Dr. Joachim Blankenburg
- Dr. Klaus Friedrich
- Dipl.-Ing. Frank Idler
- Dr. Ernst Gehrt
- Dr. Gerhard Milbert
- Dr. Ernst-Dieter Spies
- Dr. Karl Dieter Felzer
- Dipl.-Geol. Heiner Hellmann
- Dr. Klaus-Jörg Hartmann
- Dipl.-Geogr. Bernd Burbaum
- Dr. Stefan Brune

Conceptual idea, aims

Realizing the increasing importance of soil for food security, climate change and rural development, the responsible ministries mandated the Ad hoc Working Group Soil in 1984, to develop and to publish a first common German soil map at scale 1:200,000. This map should comply with the following aims:

- the soil description should follow exclusively the current German soil mapping guide KA 4/5
- the map should be drafted consistent across all federal state political boundaries and well adapted at the 1:200,000 map sheet grid lines
- the 1:200,000 soil map should include one consistent data base system for all the map sheets and covering the entire German area homogeneously as basis for thematic maps and for digital services



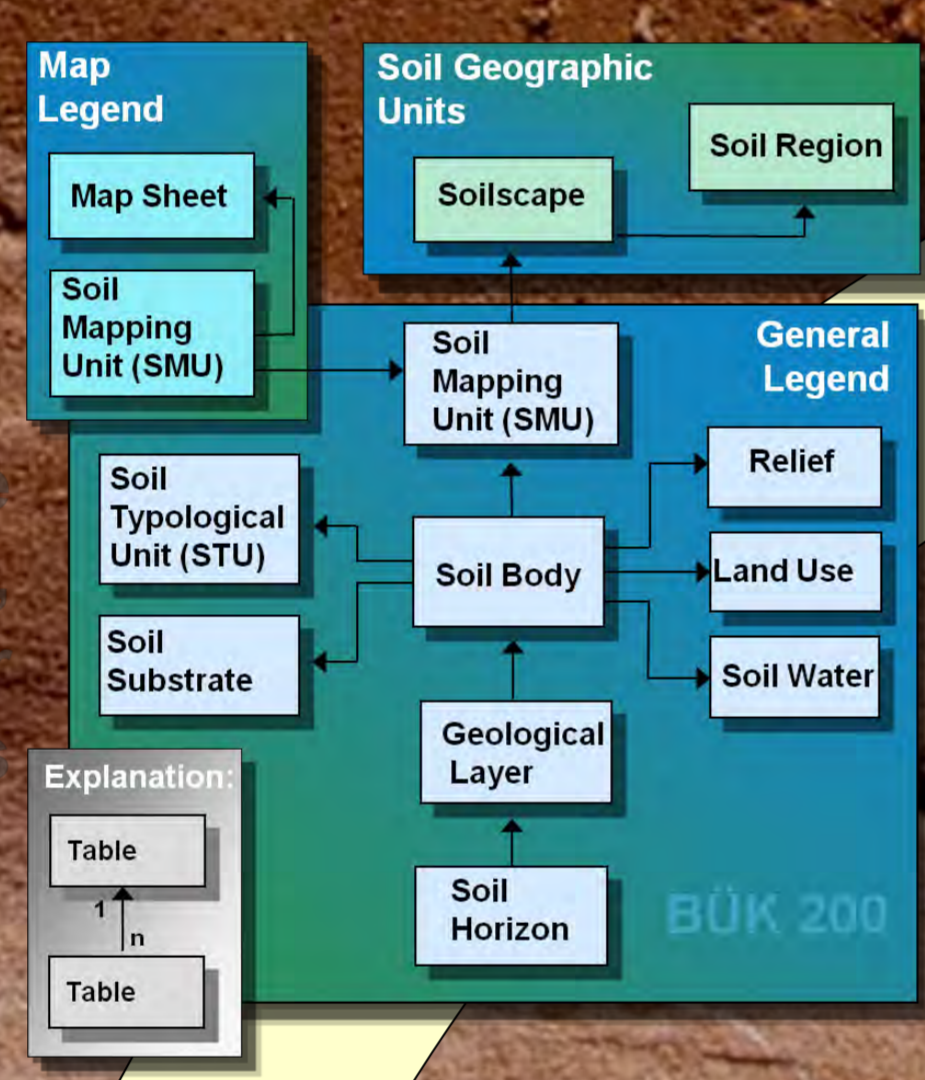
Origin, Tools, and Quality Management

Bodenkundliche Kartieranleitung

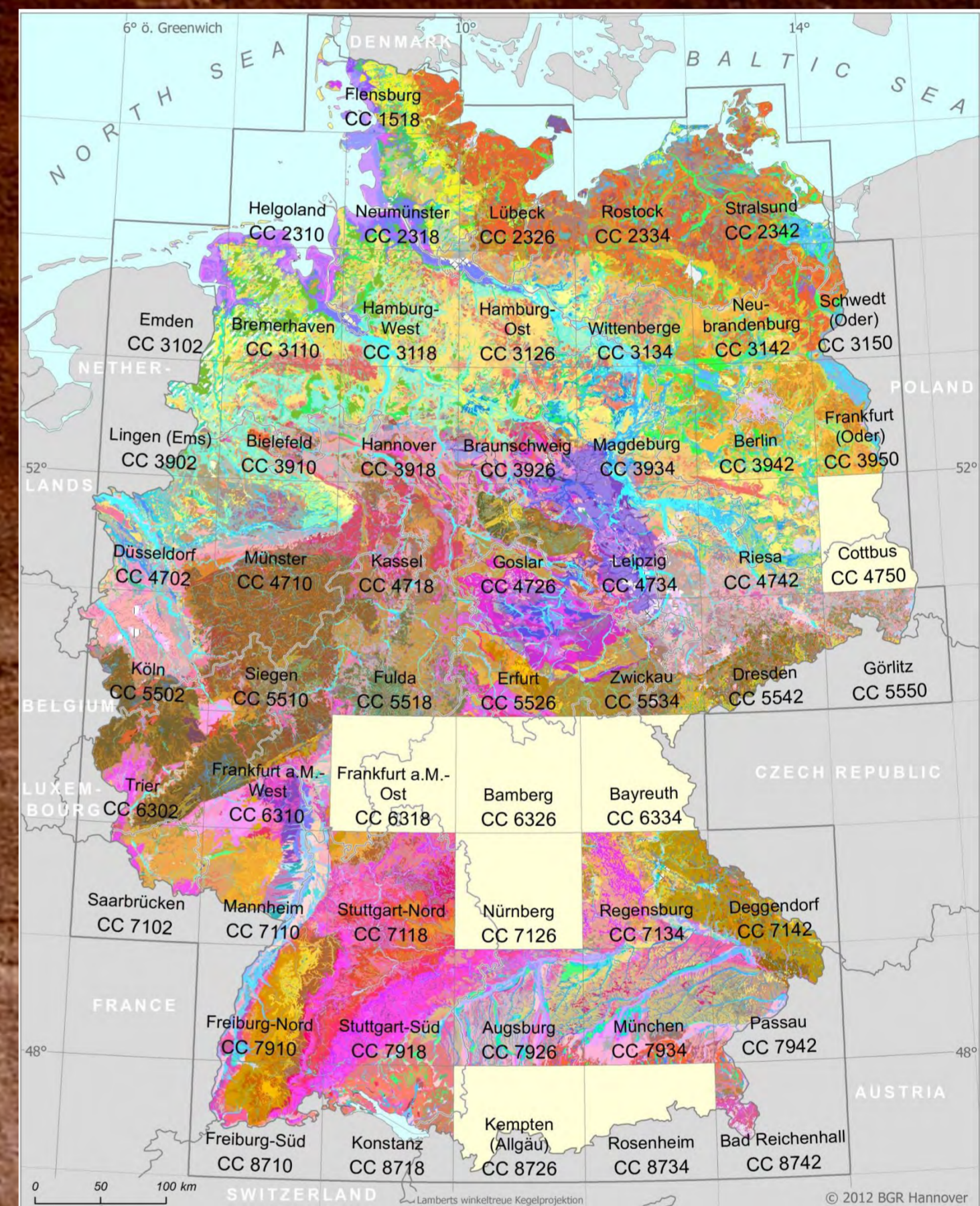
- ▶ German Soil Mapping Standard KA 4/5
- ▶ Definition of formal map quality standards
- ▶ Development of aggregation algorithms
- ▶ BÜK 200 Online Manual (data base)

5. verbesserte und erweiterte Auflage
Hannover 2005

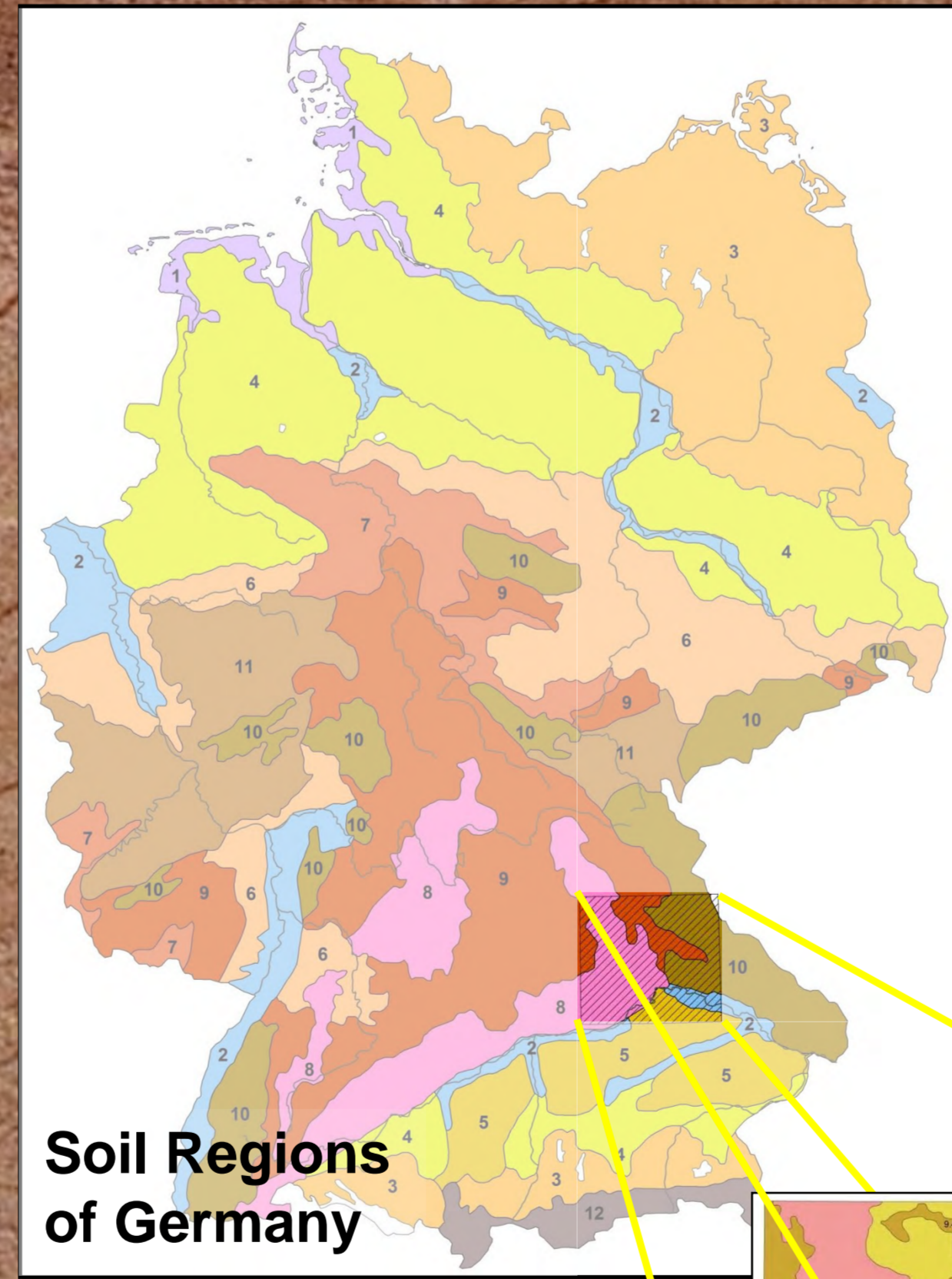
Simplified data model of the BÜK 200 spatial data base, one common data base for all German soil maps



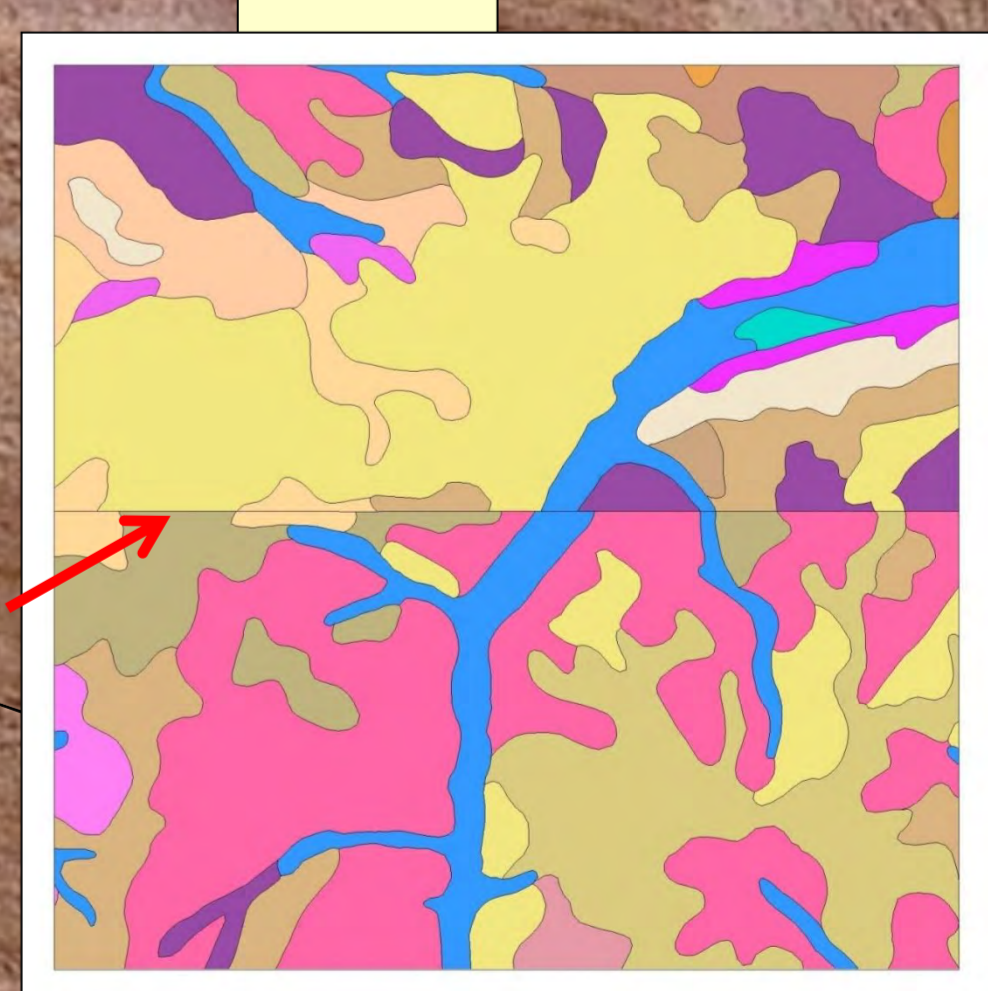
BÜK 200, available as printed map or as WMS



16 soil survey agencies develop and deliver draft soil maps from their respective state area



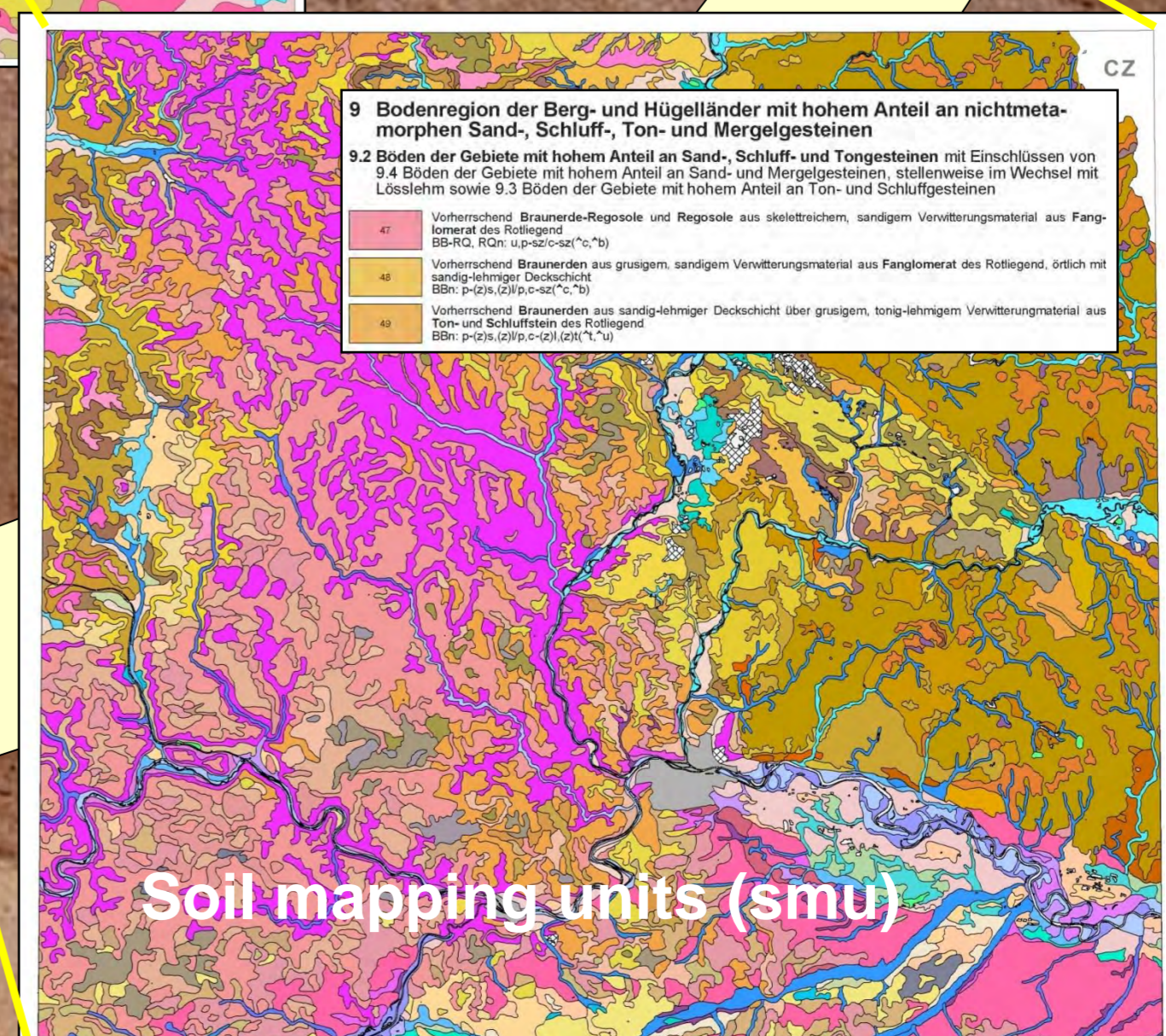
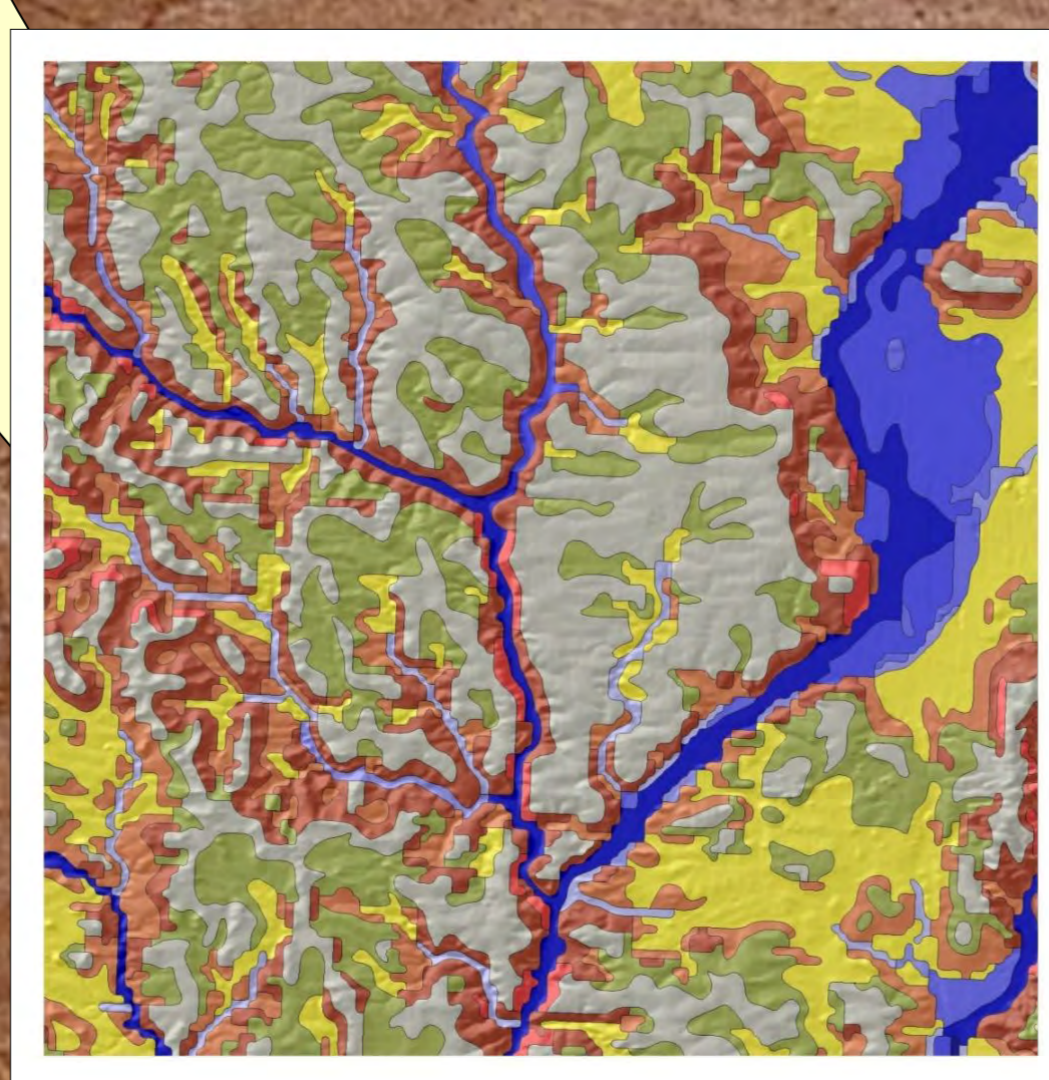
Coordinating soil map units at map sheet boundary



Soil landscapes



Revision of soil map boundaries according to geomorphographic units across political boundaries



Coordinating the consistency of soil map units as part of the German soil regions concept