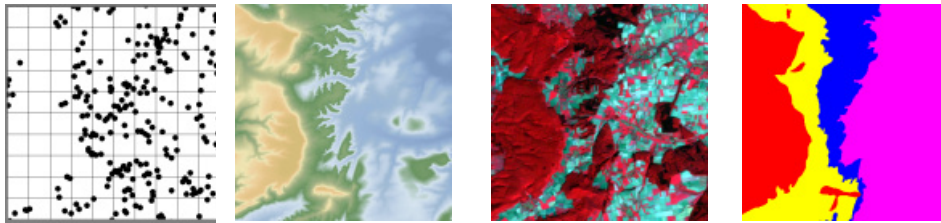


CASE STUDY: Ebergötzen¹

Description: "Ebergötzen" is 10×10 km study area in the vicinity of the city of Göttingen in Central Germany (51°30'03.16"-51°35'31.45"N; 10°00'28.67"-10°09'15.21"E). This dataset has been frequently used by the SAGA development team and the SciLands GmbH. To navigate to the area open [zones.kml](#) and to browse the points use [points.kml](#). The coordinate system used is the official German coordinate system, zone 3 (*germany3*): Transverse Mercator Projection, central meridian is 9°, false easting 3500000, Bessel 1841 ellipsoid with Potsdam datum. The bounding coordinates of the study area are: XMIN=3570000, YMIN=5708000, XMAX=3580000, YMAX=5718000. We will work with two grid resolutions: 25 m (fine) and 100 m (coarse). You can browse all of the input layers also using the [Google Earth](#) and the KML files.



CONTENT: The dataset consists of four groups of GIS layers:

1. Point observations - the point dataset consists of lab measurements four variables are available: SAND, SILT and CLAY (all expressed as % of mass measured for the 0-30 cm layer of soil) and SOILTYPE (type of soil based on the German classification system). Point observations are allocated in three tables:
 - a. POINTS (300 observations) - this dataset is used for interpolation purposes on DAY2 and 3;
 - b. CONTROL (300 observations) - this is a validation dataset used to derive the RMSPE;
 - c. POINTSAL (2937 observations) - this is the full dataset that will be used for the exercise on DAY 4;
2. Digital Elevation Models:
 - a. DEM25: 25 m DEM derived from the topo-maps;
 - b. DEM100: 100 m DEM from the SRTM mission (<http://srtm.usgs.gov>);
3. LANDSAT image bands obtained from the Image 2000 & Corine Land Cover 2000 Project (<http://image2000.jrc.it>). The image consists of seven bands + one panchromatic band:
 - a. LANDIMG: 25 m bands: Band 1 (B, 0.45-0.52), Band 2 (G, 0.53-0.61), Band 3 (R, 0.63-0.69), Band 4 (IR, 0.78-0.90), Band 5 (MIR, 1.55-1.75), Band 6 (T, 10.40-12.50), Band 7 (MIR2, 2.09-2.35);
 - b. PANIMG: 12.5 m panchromatic image;
4. Geological map: from 1:50.000 geological map of Germany
 - a. ZONES: Z1 - Clay and loess, Z2 - Clayey materials, Z3 - Sandy material, Z4 - Silt and sand;

¹ This dataset was kindly provided by Michael Bock of Scilands GmbH (www.scilands.de).