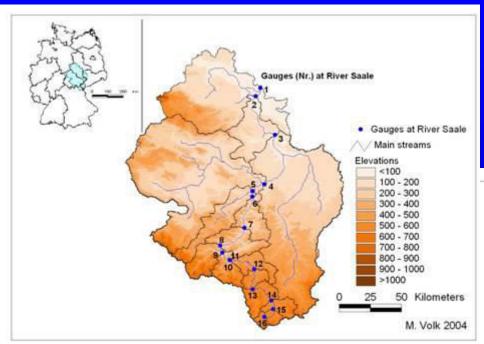
## Riparian-Flood Plain Model

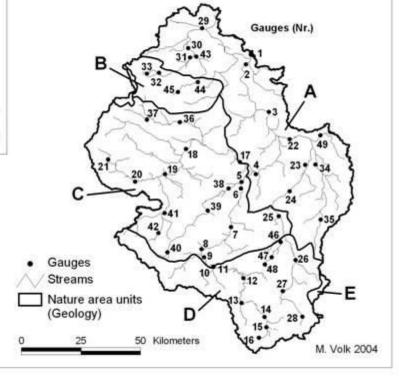
- Landscape Analysis
  Model Inputs
- >SWAT Modifications
  REMM Additions
- >Current Plans

### Landscape Analysis

# Dr. Martin Volk Center for Environmental Research Leipzig, Germany

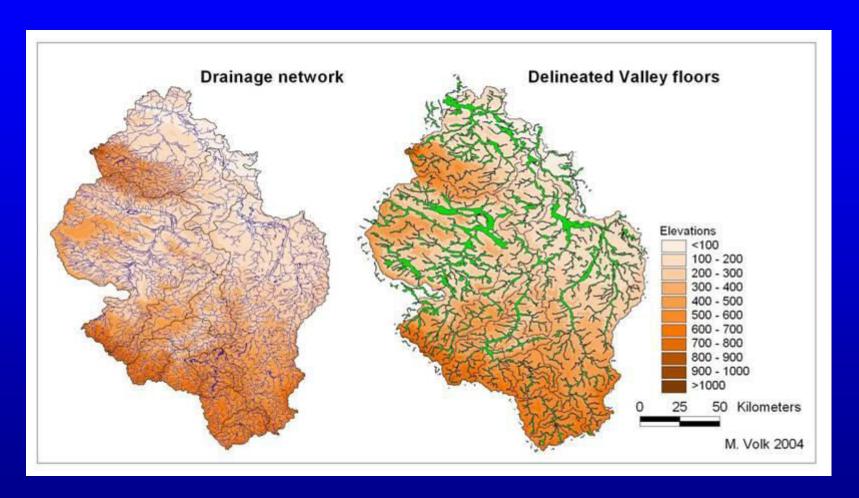
## **Study Area**



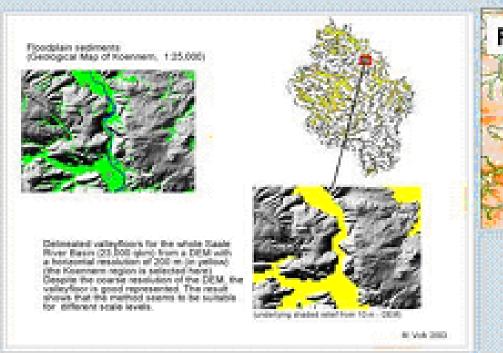


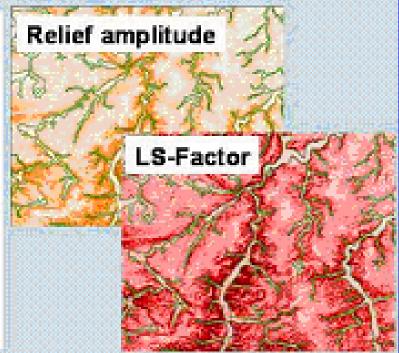
The Saale River Basin (Central Germany) is subdivided in three sub-regions: The Pleistocene lowlands, the loess sub-region and the mountainous sub-region. The length of river is about 320 km. Precipitation varies from 500 mm in the loess areas to 1200 mm in the forested mountain regions.

#### **Delineation of the Landscape Units**

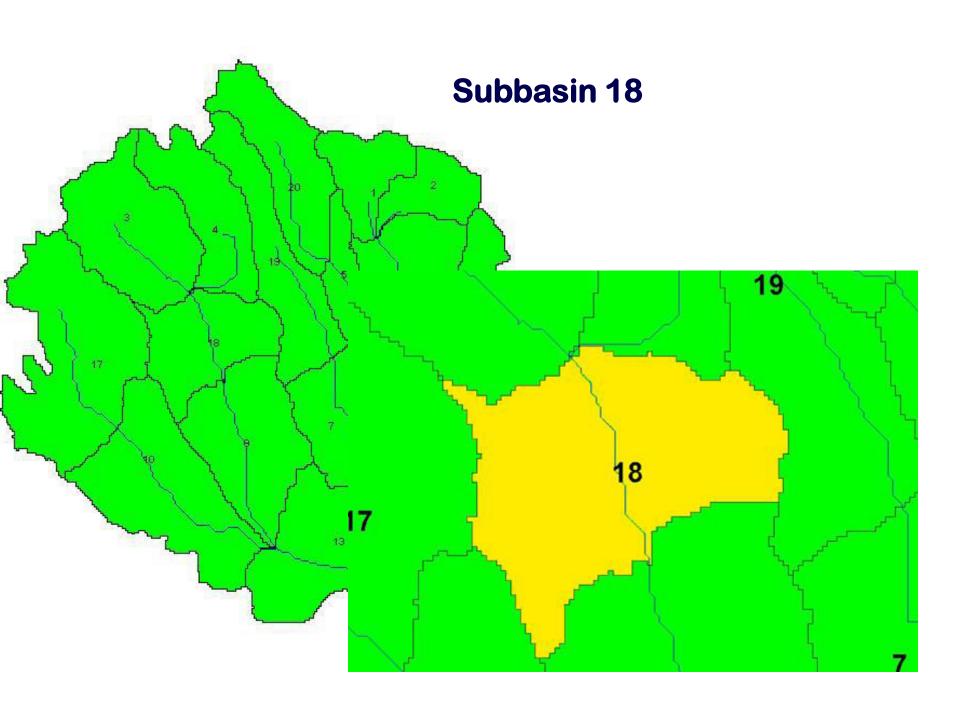


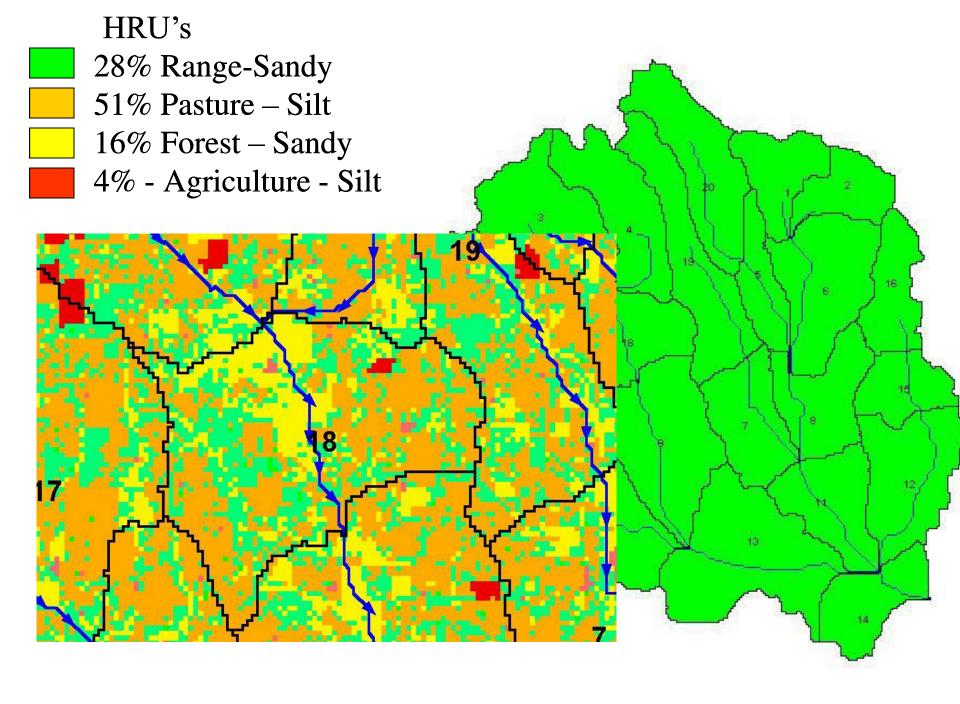
#### Delineation by using Slope position method

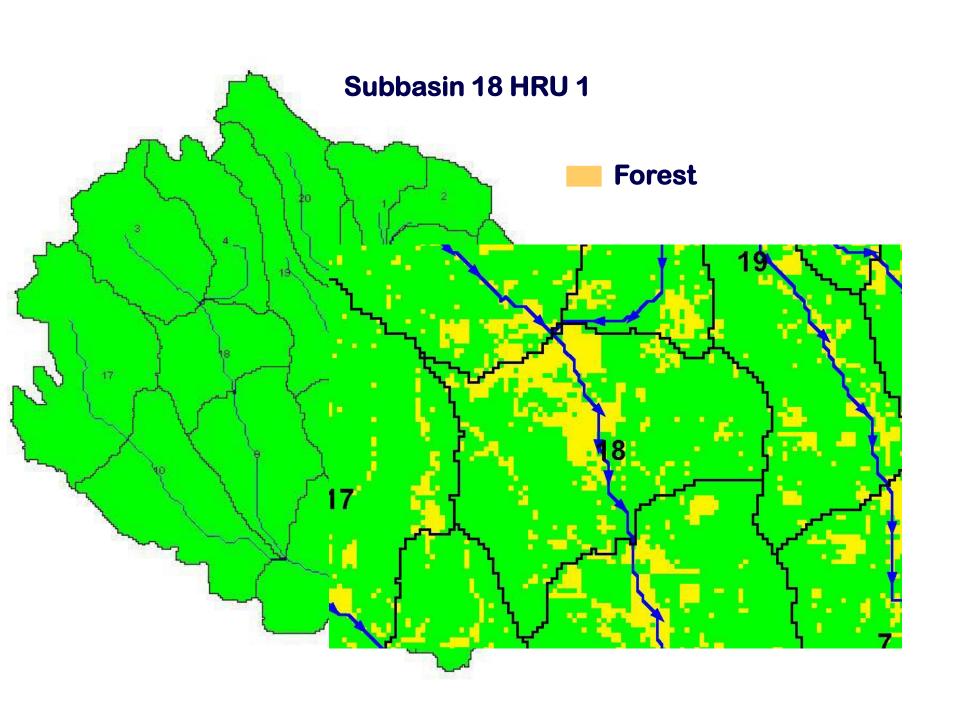


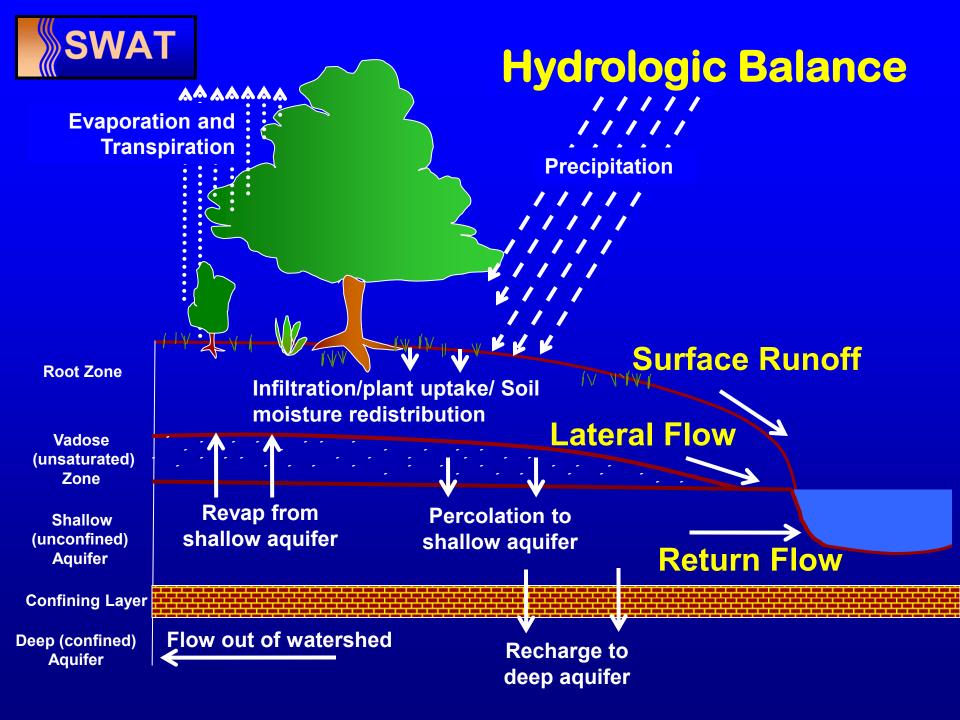


Validation: Soil maps and Morphometric parameters





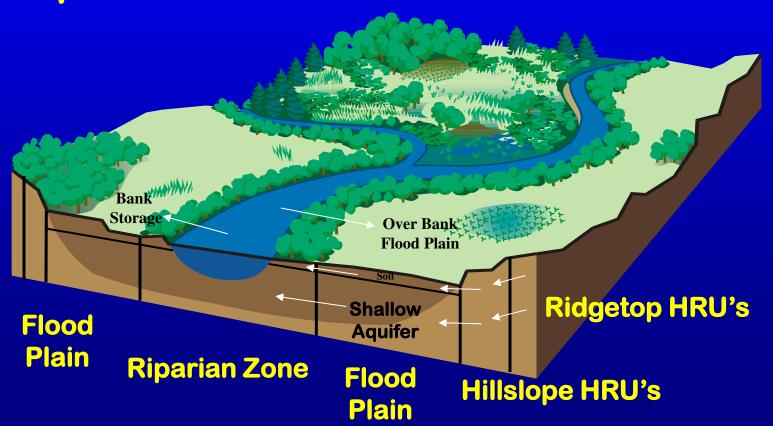






#### **SWAT 2003 Current Research**

- Landscape Positions (New HRUs: Valley floors, Hillslopes, Ridgetops)
- Riparian Zones



#### **Current Consortium**

- Riesel, Texas
   Peter Allen Baylor
   Daren Harmel
- Tifton, Georgia
   Richard Lowrance
   Dave Bosch
- University Park, Pennsylvania Bil Gburek Tammie Veith
- El Reno, Oklahoma
   Mike Van Liew