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Sommario/riassunto	High-resolution regional ensemble climate simulations with the regional climate model COSMO-CLM are performed for Southwest Germany to study the sensitivity of meteorological and hydrological variables to parameter settings. The soil-vegetation model VEG3D is implemented into COSMO-CLM to assess the impact of the lower atmospheric boundary on simulation results. A statistical-dynamical downscaling method is tested to shorten the simulation time for regional climate studies.