



## Mean annual water balance of Lower Austria

C. Krammer (1), H.-P. Nachtnebel (2) and I. Polaschek (3)

1. Amt der Niederoesterreichischen Landesregierung, Abteilung Hydrologie, St. Poelten, Austria ([christian.krammer@noel.gv.at](mailto:christian.krammer@noel.gv.at))
2. Universitaet fuer Bodenkultur, Wien, Austria ([hans\\_peter.nachtnebel@boku.ac.at](mailto:hans_peter.nachtnebel@boku.ac.at))
3. Graz ([ines.polaschek@hotmail.com](mailto:ines.polaschek@hotmail.com))

Lower Austria is Austria's largest state, covering an area of around 19.174 km<sup>2</sup>, comprising climatic zones from arid to humid, with altitudes between 150 and 2000 m above sea level. However, the main flux happens in the Danube river which crosses the country from West to East.

The mean annual water balance of Lower Austria was calculated for the period 1981 – 2000 using two methods:

1. the balance of discharges of all in- and outflows crossing the border of Lower Austria
2. the regionalization of long term fields of precipitation and actual evaptranspiration which had been calibrated using data of many gauging stations from inside the country.

Results of a study about water consumption were added at the end to obtain an illustrative diagram of the main fluxes of water.