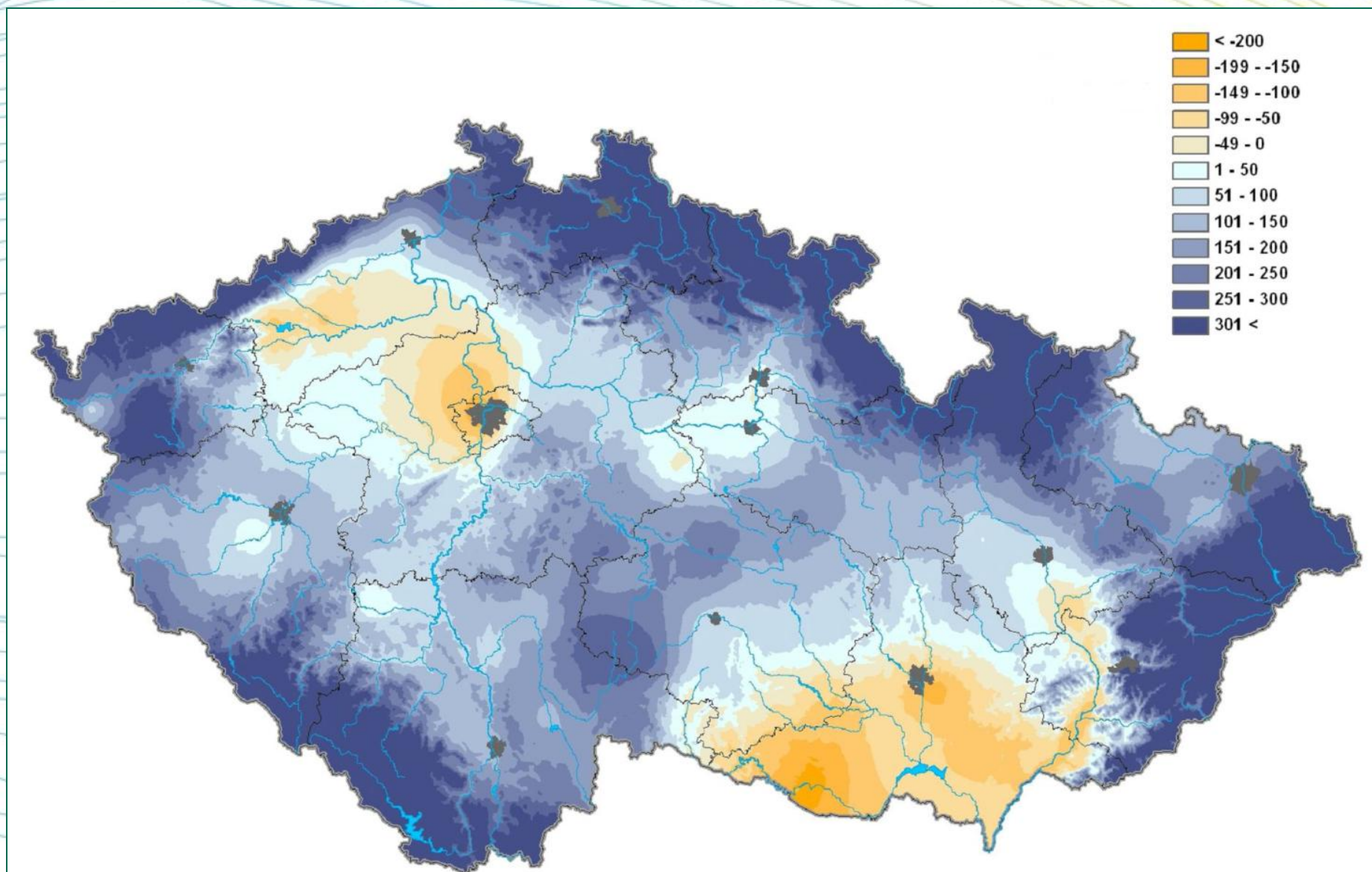


Areas affected by drought and water scarcity

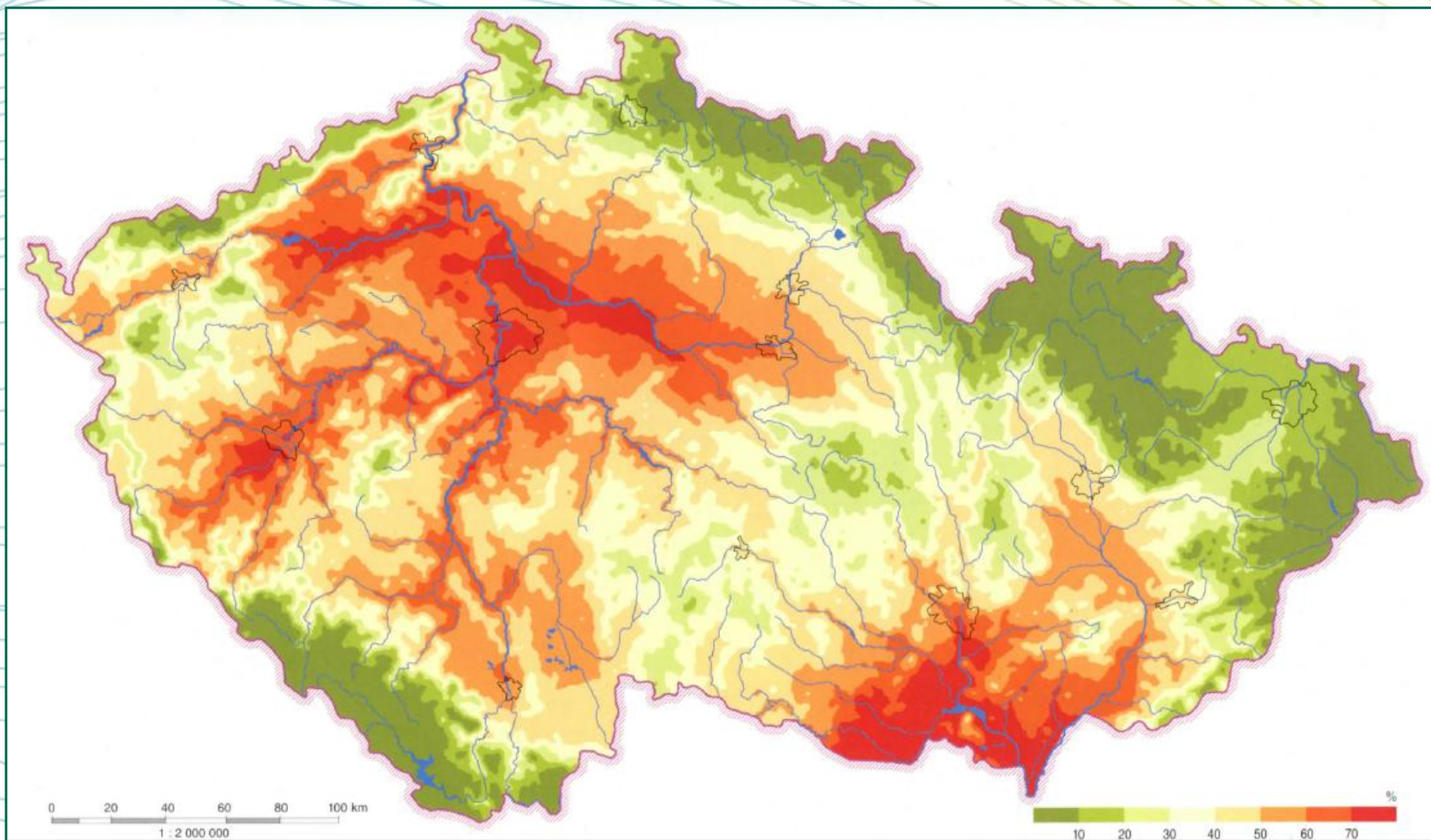
Magdalena Mrkvičková

Drought prone areas – average annual water balance of grass 1961-2000



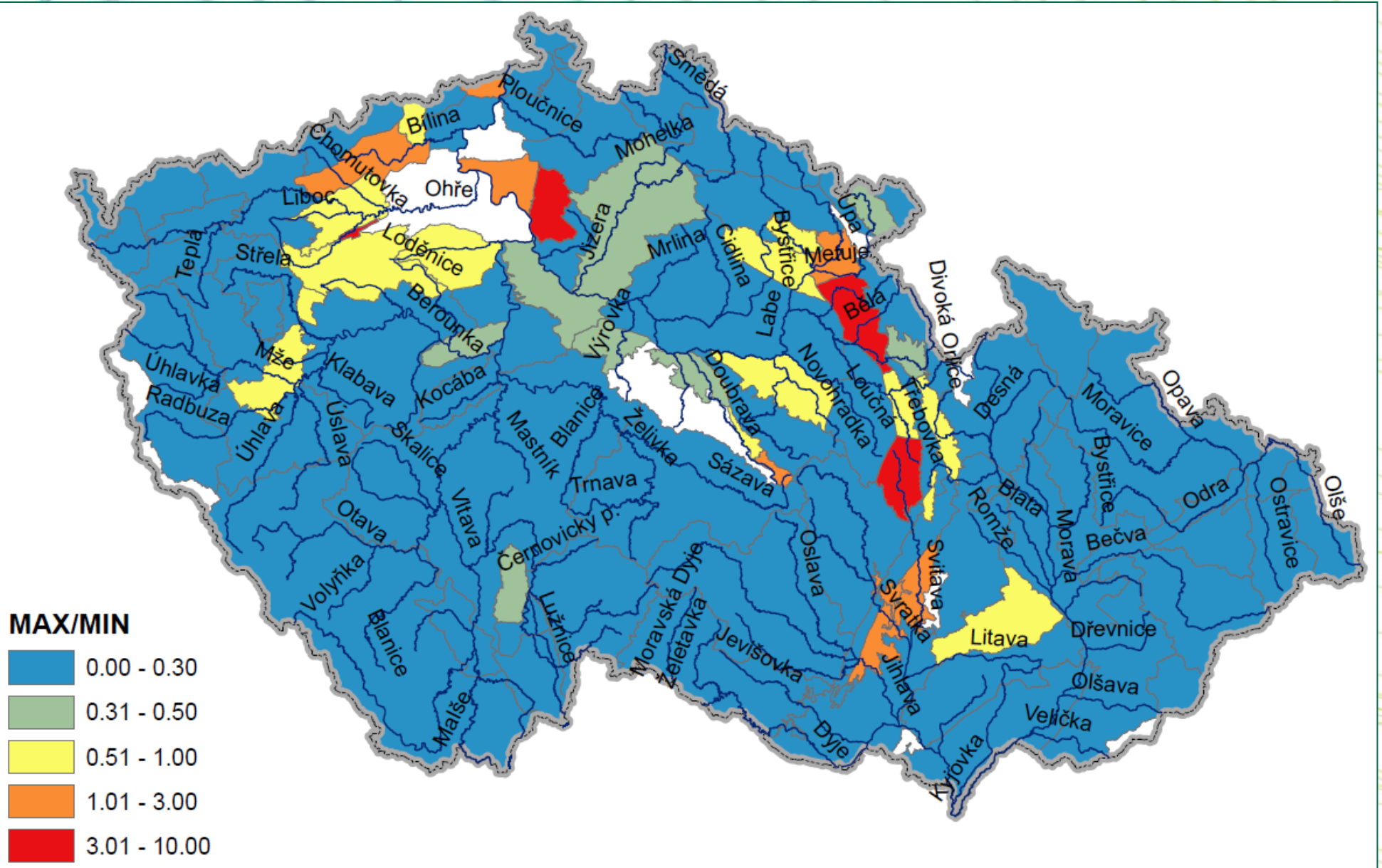
Source: M. Kohout, J. Rožnovský, F. Chuchma, Czech Hydrometeorological Institute, 2009

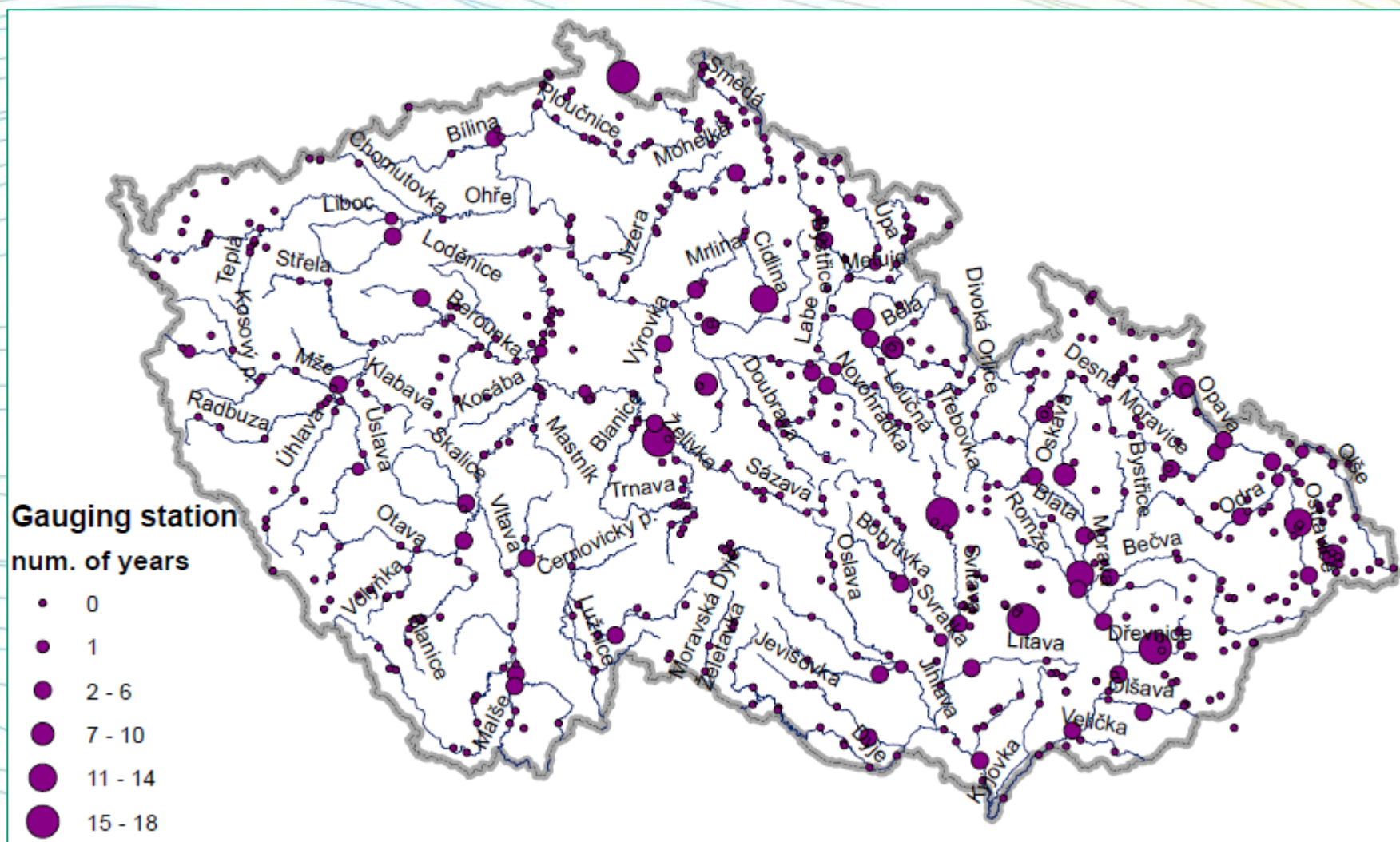
Ratio of months with drought episodes according to 3-month SPI (1961-2000)



Source: Atlas podnebí České republiky, ČHMÚ,

Groundwater Balance Assessment of hydrogeological units in 2009





Balance profiles affected by water scarcity in the CZ part of Elbe RB

Soutice – Želivka (surface water abstractions for Prague)

Mandava – Varnsdorf

Cidlina – Nový Bydžov, Sány

Dědina – Mitrov (groundwater abstractions for Hradec Králové)

Vrchlice – Kutná Hora (surface water abstractions for Kutná Hora)

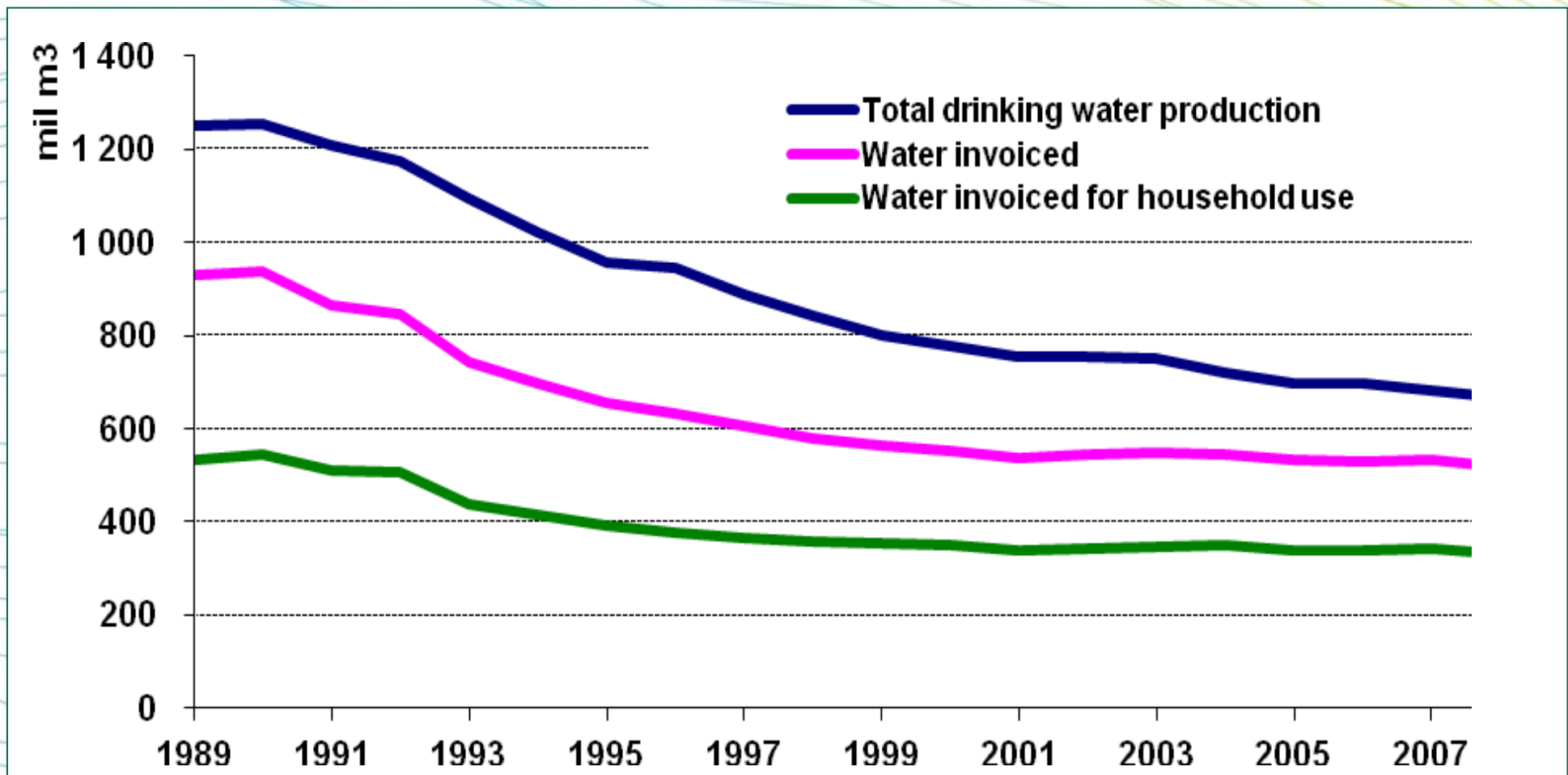
Bělá – Častolovice

Blšanka – Holedeč (groundwater abstraction + s. water abstractions for irrigation)

Berounka – Plzeň

Bílina – Trmice...

Demand for drinking water during period 1989 – 2008 in CZ



Conclusions

- potential of measures focused on additional decrease in water consumption is limited
- promising measures for managing water scarcity include unconventional water resources – artificial groundwater recharge, riverbank infiltration systems, treated waste water reuse, sharing available water resources among water supply companies...
- operational measures to be implemented during periods of drought should be embedded in Drought Management Plans (part of RBDPs)

Thank you for your attention