

## **Floods of the Maros river in the early modern and modern period (16th-20th centuries)**

Andrea Kiss

Vienna Technical University, Institute of Hydraulic Engineering and Water Resources Management, Wien, Austria  
(kiss@hydro.tuwien.ac.at)

In the poster presentation a series of historical and recent floods of the Maros river, with special emphasis on the flood events occurred on the lower sections, are presented. Similar to the Hungarian flood databases of the Middle-Danube and Lower-Tisza, the main sources of investigations are the institutional (legal-administrative) documentary evidence (e.g. Szeged and Makó town council protocols and related administrative documentation, Csanád County meeting protocols) mainly from the late 17th-early 18th century onwards. However, in case of the Maros river there is an increased importance of narrative sources, with special emphasis on the early modern period (16th-17th century): in this case the (mainly Transylvanian) narratives (chronicles, diaries, memoires etc.) written by aristocrats, other noblemen and town citizens have particular importance.

In the presentation the frequency of detected flood events, from the mid-16th century onwards (with an outlook on sporadic medieval evidence), is provided; moreover, a 3-scaled magnitude classification and a seasonality analysis are also presented. Floods of the Maros river, especially those of the lower river sections, often cannot be understood and discussed without the floods of the (Lower-)Tisza; thus, a comparison of the two flood series are also a subject of discussion. Unlike the Lower-Tisza, the Maros is prone to winter and early spring ice jam floods: since the floods that belonged to this type (similar to those of the Middle-Danube at Budapest) were the most destructive among the flood events of the river, this flood type, and the greatest flood events (e.g. 1751-1752, 1784) are also presented in more detail.