

**First circular on the
*Final workshop of the PAGES working group***

Global Soil and Sediment Transfers in the Anthropocene (GloSS)

**German Federal Institute of Hydrology, Koblenz (Germany)
from Oct. 18th to Oct. 20th, 2018**

Scientific committee:

Veerle Vanacker, Louvain (BE), Gary Stinchcomb, Murray State (USA), Dan Penny, University of Sydney (AUS), Lu Xixi, National University of Singapore (SGP), Thomas Hoffmann, German Federal Institute of Hydrology, Koblenz (GER), Rajiv Sinha, IIT Kanpur (India)

The GloSS working group

The PAGES Global Soil and Sediment transfers in the Anthropocene (GloSS) working group aims to build a comprehensive global database on soil and sediment transfers in the Anthropocene, to identify hotspots of soil erosion and sediment deposition in response to human impacts, and locate data-poor regions as strategic foci for future work. The proposed workshop is the third meeting of the GloSS working group. After the last meeting at Louvain-la-Neuve (Belgium) the GloSS-WG has now finalized the database structure based on wiki technology, which provides the template for community-based data import. The members of the GloSS-WG are now motivated to enter their data at <https://pagesgloss.colorado.edu/wiki>. The WIKI provides web-interfaces to enter: i) sediment yields from gauging stations, ii) cosmogenic radio nuclide data on long-term denudation rates, iii) hillslope erosion data, iv) sedimentation data and v) long-term sediment yields.

The workshop

The Koblenz meeting will be a good opportunity to present synthesis of the data from a few regions so that we can deliver the final outputs following the objectives of the GloSS project. A tentative schedule of the workshop is as follows:

- Presentation, discussion and, if necessary, minor modifications of the newly developed GloSS database structure
- **Progress reports** of the regional task force leaders regarding database and synthesis of data on erosion, transport and deposition
- **Interactive discussions** to work towards the regional syntheses or regional/global products. This discussion will focus on two types of products – the case-study based one where we discuss the main assets of studying GloSS; and a second one where we aim to present the database and highlight strengths and weaknesses (for example under-studied regions)
- **Focused discussions** on designing innovative analytical methods to understand the causal factors of soil erosion and land degradation in different parts of the world including the human-landscape interactions.
- **Trip along the Rhine in Koblenz**

Preliminary Program:

Day 1: 18th Oct, start at 9:30 am

- Registration, Welcome and Introduction to the GloSS WG aims
- Talk on data stewardship and management of paleo-environmental databases within PAGES
- Presentation on the current status of the database structure
- Presentations by regional task force leaders on database and data synthesis
- Poster session with Coffee break
- Conference dinner

Day 2: 19th Oct, start at 9:00 am

- Keynote talk(s): Innovative analytical methods of data analysis and applications
- Regional synthesis of the database
- Interactive discussions / breakout working groups
- Poster Session during the Coffee break

Day 3: 6th March, start at 9.30

- Field trip along the Rhine and Moselle rivers in Koblenz
- Final discussion and closing WS

Planned products:

- Data-filled GloSS database on sediment flux along with interactive maps
- Identification of “hotspots” of erosion
- Identification of data-poor regions
- Special issue of a journal (e.g. Catena, GPC) with papers synthesizing results on soil erosion from different regions across the world
- Updated roadmap of the GloSS-WG

Registration and Logistics

The workshop will be held at the Federal Institute of Hydrology at Koblenz (Germany). Koblenz is located at the beautiful confluence between the Rhine and the Moselle River in the Middle Rhine Valley. Koblenz is around 100 km away from the Frankfurt airport and around 90 km from the Köln/Bonn airport. Koblenz is well connected by train with the Frankfurt airport (1.5 hrs by train).

We preserved hotel rooms at the hotel Kleiner Riesen (<https://www.hotel-kleinerriesen.de/>) in the vicinity of the Federal Institute at a special rate of 70 € and 95 € per night in a single and double room, respectively. Other recommended hotels close to the Federal Institute are: Hotel Brenner (<https://hotel-brenner.de/>), GHotel Koblenz (www.ghotel.de) and Hotel Ibis.

Registration fee of Euro 60 includes catering during the WS (workshop dinner, travel expenses and accommodation not included).

For any further details, please contact:

Thomas Hoffmann, Federal Institute of Hydrology (BfG, Koblenz)

Email: Thomas.hoffmann@bafg.de,

Phone: +49 261 1306 5592