

**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**

Planned products:

- Data-filled GloSS data base 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

(Preliminary) Program:

Day 1: 18th

9:30	Registration, Welcome and Introduction to the GloSS WG aims	Th. Hoffmann
10:00	Data steward ship and management of paleo-environmental databases within PAGES and presentation on the current status of the GloSS data base structure	Th. Hoffmann
	Status reports of regional task-force leaders...	
10:30	... <i>Indian Sub-Continent</i>	<i>R. Sinha</i>
11:00	Coffee-break and Poster Presentation	
11:30	... <i>Russia</i>	<i>A. Sidorchuk</i>
12:00	... <i>China</i>	<i>L. Dongfeng</i>
12:30	Lunch-Break	
14:00	... <i>Australia / New Zealand</i>	<i>D. Cook</i>
14:30	... <i>N-America</i>	<i>A. James</i>
15:00	... <i>S-America</i>	<i>J. Restrepo</i>
15:30	Coffee-break and Poster Presentation	
16:00	... <i>Europe</i>	<i>G. Verstreoten</i>

16:30 ... *Africa* M. Vanmaercke
17:00 Plenum Discussion: evaluation of GloSS-DB structure
19:00 Conference Dinner

Day 2: 19th Oct

9:00 *GEMStat: A global database on water quality* S. Dietrich (ICWRGC)
9:30 Plenum discussion: improvement of GloSS-DB
10:00 Breakout groups: data compilation, homogenization
and data base
10:30 Coffee break
11:00 Break out groups cont.
12:30 Lunch
14:00 Presentation of results from break out groups
15:00 Coffee break and Poster Session
15:30 *Analytical methods and data analysis of the GloSS DB: Presentation: TBA*
opportunities and challenges
16:00 Plenum discussion:

- Analytical methods applied on GloSS-DB
- Planning next steps on GloSS DB

Day 3: 20th Oct

9:00 Field (city) trip along the Rhine and Moselle rivers in Th. Hoffmann
Koblenz
12:00 Plenum discussion:

- How to proceed with GloSS-DB
- How to proceed with GloSS working-group?

14:00 End of Workshop

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).

Recommended hotel are Hotel Kleiner Riesen (<https://www.hotel-kleinerriesen.de/>), Hotel Brenner (<https://hotel-brenner.de/>), GHotel Koblenz (www.ghotel.de) and Hotel Ibis.

Registration fee of Euro 50 includes catering during the WS (workshop dinner, travel expenses and accommodation not included).

To register please send an email until Oct. 10th to Thomas Hoffmann (thomas.hoffmann@bafg.de) indicating if you wish to present your work on a poster

For any further details, please contact:

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