

**"Орчин үеийн судалгааны шинэ  
арга зүйг эзэмших арга, техникүүд:  
Геоморфологийн Шинжлэх Ухааны  
жишээн дээр"**

**МУИС-ийн ШУС-ийн БУС**

**А.Орхонсэлэнгэ (Ph.D)**

**МУИС-ийн Эрдмийн Танхим**

**2018.05.09**



Anyone who has  
never made a  
**MISTAKE**  
has never tried anything  
**NEW**

*-Albert Einstein*

# "Орчин үеийн судалгааны шинэ арга зүйг эзэмших арга, техникүүд"

## The Sections of the Paper

Most journal-style scientific papers are subdivided into the following sections: [Title](#), [Authors and Affiliation](#), [Abstract](#), [Introduction](#), [Methods](#), [Results](#), [Discussion](#), [Acknowledgments](#), and [Literature Cited](#), which parallel the experimental process. This is the system we will use. This website describes the style, content, and format associated with each section.

The sections appear in a journal style paper in the following prescribed order:

Experimental process	Section of Paper
What did I do in a nutshell?	<a href="#">Abstract</a>
What is the problem?	<a href="#">Introduction</a>
How did I solve the problem?	<a href="#">Materials and Methods</a>
What did I find out?	<a href="#">Results</a>
What does it mean?	<a href="#">Discussion</a>
Who helped me out?	<a href="#">Acknowledgments</a> (optional)
Whose work did I refer to?	<a href="#">Literature Cited</a>
Extra Information	<a href="#">Appendices</a> (optional)

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# ***"Орчин үеийн судалгааны шинэ арга зүйг эзэмших арга, техникүүд"***

## **Агуулга**

- Орчин үеийн судалгаа**
- Судалгааны шинэ аргууд**
- Эзэмших арга, техник**
- Хэлэлцүүлэг: асуулт, хариулт**



*"Орчин үеийн судалгааны шинэ арга зүйг эзэмших арга, техникүүд"*

## **Орчин үеийн судалгаа**

- **Түвшин:** Ахисан, дэвшилтэт, нарийвчлал өндөртэй, туршлагаар баталсан, шинэ санаа дэвшүүлсэн, инновацийн чадавхитай
- **Хэлбэр:** Суралцагч:Сургагч  
**90:10**

*"Орчин үеийн судалгааны шинэ арга зүйг эзэмших арга, техникүүд"*

## **Судалгааны шинэ аргууд**

- **Арга:**
  - **Онолын (theoretical or logical)**
  - **Аналитик (empirical)**
- **Технологи:** **Компьютер, NASA, Програм,**  
**...**

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## **Эзэмших арга, техник**

- Мэргэжлийн ном, сурах бичиг бие даан судлах**
- Сургалтад хамрагдах**
- Онлайн хичээл судлах**
- Олон Улсын мэргэжлийн хуралд оролцох**
- Олон Улсын мэргэжлийн экспедицэд оролцох**

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**Эзэмших арга, техник**

**Мэргэжлийн ном, сурах бичиг бие даан судлах**



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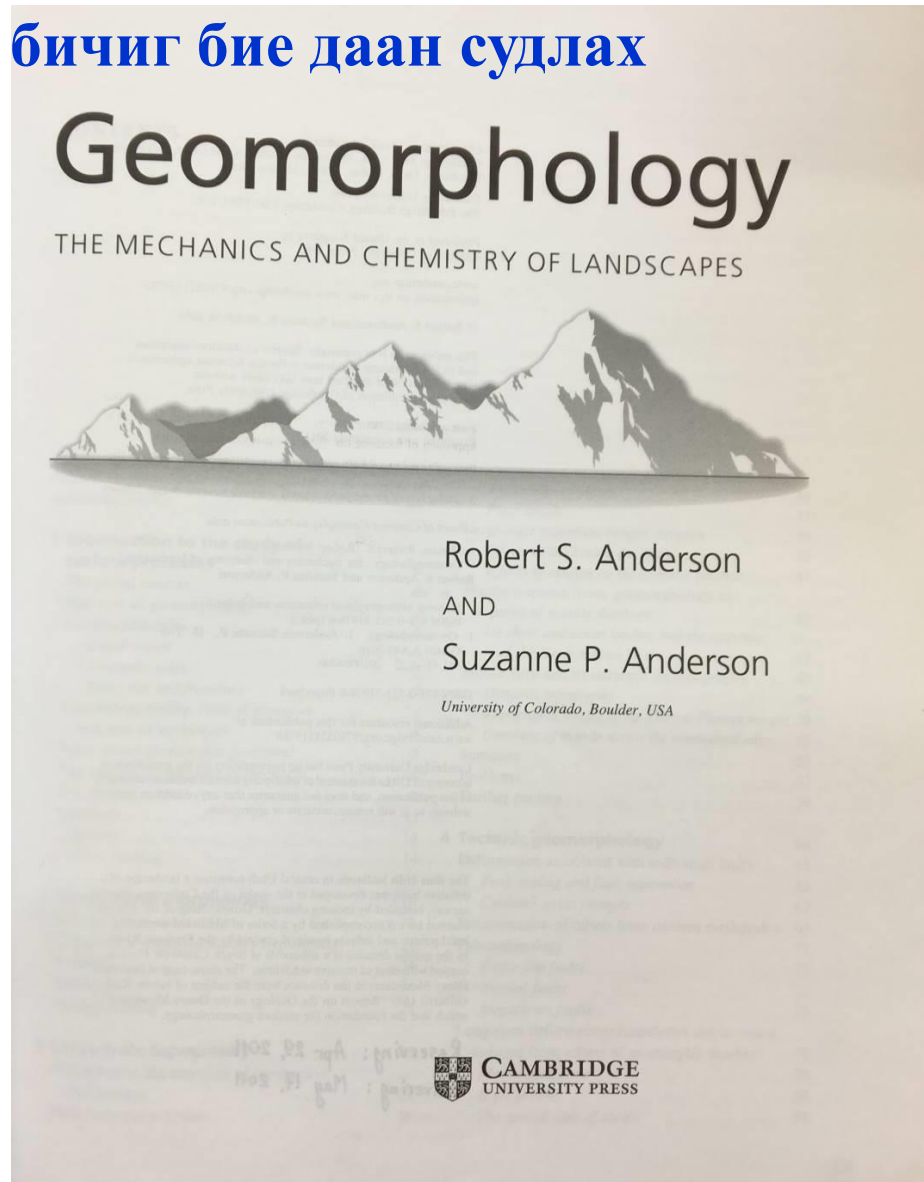
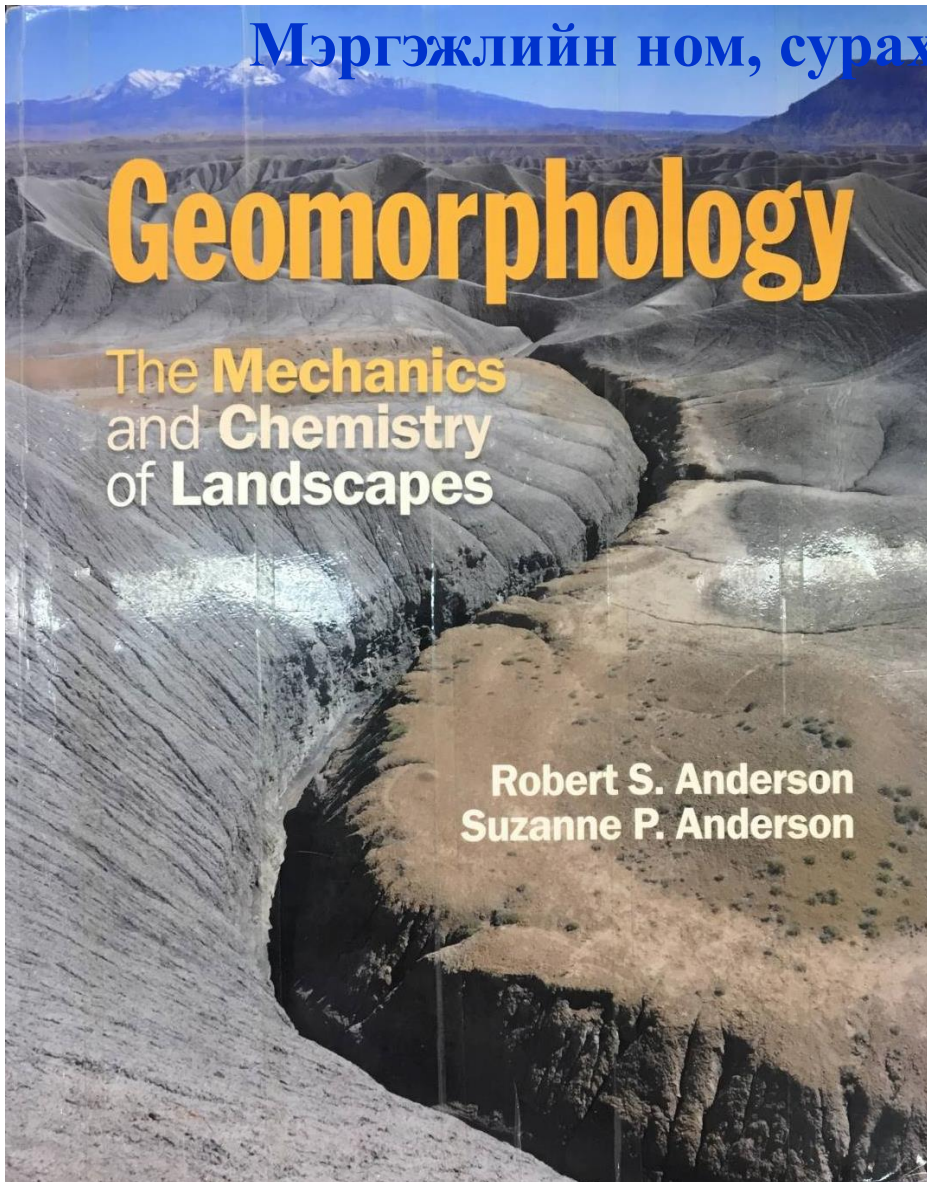
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## Эзэмших арга, техник

Мэргэжлийн ном, сурах бичиг бие даан судлах



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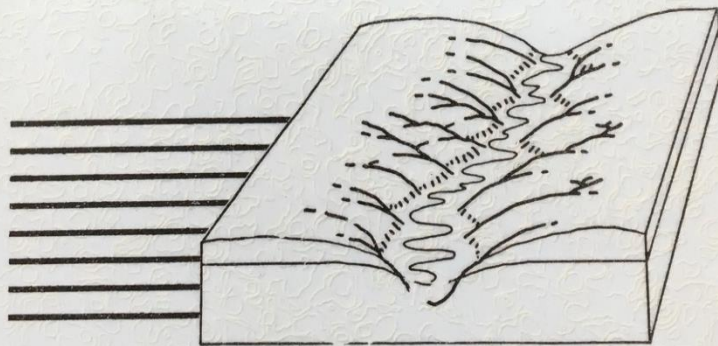
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### Мэргэжлийн ном, сурах бичиг бие даан судлах

#### Regolith Geology and Geomorphology

**G. Taylor**

*University of Canberra*

**R. A. Eggleton**

*Australian National University*

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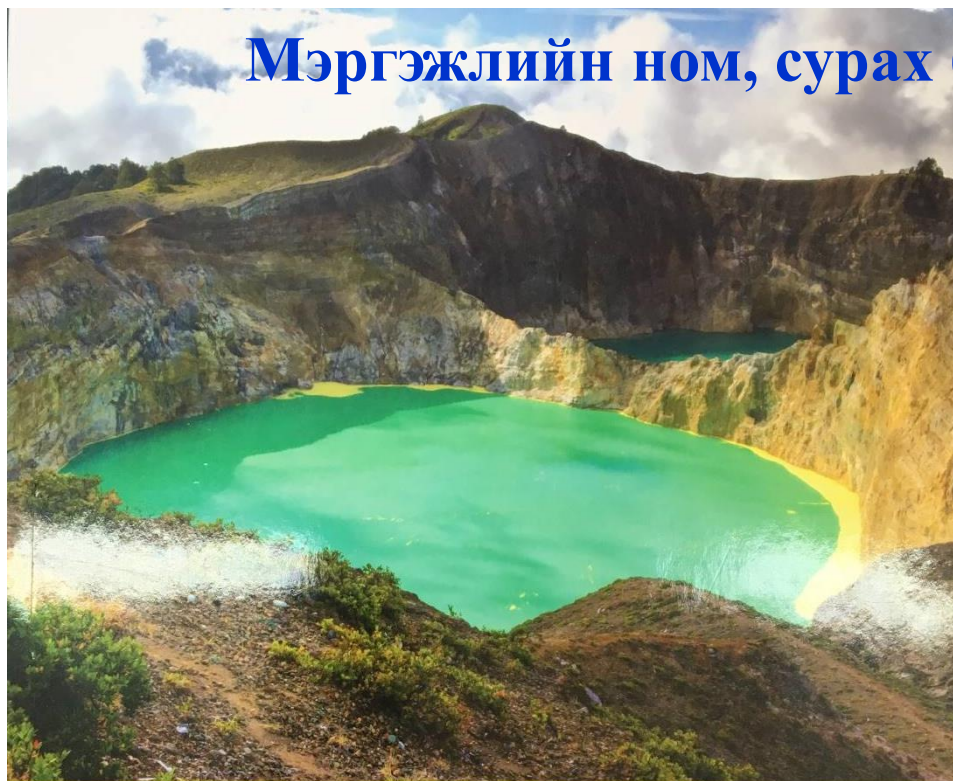
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## Эзэмших арга, техник

### Мэргэжлийн ном, сурах бичиг бие даан судлах



# Geochemistry

William M. White

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## Эзэмших арга, техник

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# ISOTOPE GEOCHEMISTRY

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## **Эзэмших арга, техник**

### **Мэргэжлийн ном, сурах бичиг бие даан судлах**

*Бие даалт: Оюуны өмчийн талаарх хуулийн  
бодит хэрэгжилт*

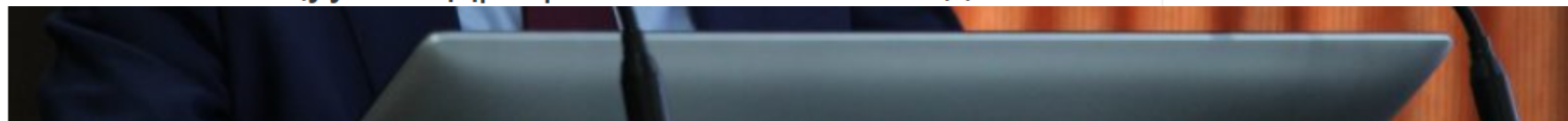


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*"Орчин үеийн судалгааны шинэ арга зүйг эзэмших арга, техникүүд"*

## **Эзэмших арга, техник**

### **Мэргэжлийн ном, сурах бичиг бие даан судлах**



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- **Сургалтад хамрагдах**
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- Онлайн хичээл судлах**



**Ач холбогдол:**      **Богино хугацаанд арга зүйд суралцах**  
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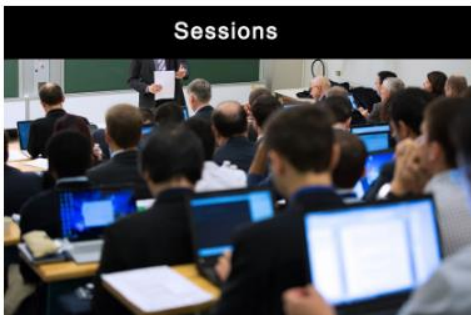
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## Short Courses & Workshops



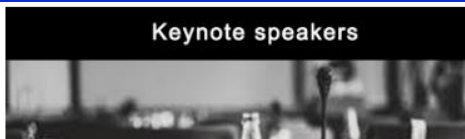
## Fieldtrips



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## Keynote speakers



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## IMPORTANT DATES

### Registration starts

January 15, 2018

### Abstract submission deadline

**CLOSED**

### Paper acceptance notice

**New date** April 25, 2018

### Early bird & presenting author registration deadline

May 14, 2018 \*U.S. / Canadian Eastern Time

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## Short Courses

### Workshops

>> Early Career

#### Early Career Scientist Workshops

##### ECS WS 2. How to write a Research Proposal

**Organized by IAS early-career committee**

Having a fantastic idea for a new avenue of ground-breaking research is a wonderful feeling. Then comes the reality – you are going to need someone to fund this! We all know that feeling of being faced with a blank funding proposal template. Well, help is at hand. During this lunchtime workshop, you will learn from the experts – those who review the proposals and those who write successful proposals.

**Date:** During Congress (lunchtime)

**Cost:** Free

Registration required

##### ECS WS 3. How to write an article for SEDIMENTOLOGY or THE DEPOSITIONAL RECORD

**Organized by IAS early-career committee**

Your project is completed. The results are in and the outcomes are, frankly, fantastic! It's now time to share your research with the wider community – it's time to publish. Writing your first manuscripts for publication can be a daunting task. How do I select an appropriate journal for my topic? How should I organize the manuscript? How long should it be? What are the key elements that the editors are going to look for? What can I do to increase visibility on search pages? I am not confident whilst writing in English – is there any help? These are just some of the plethora of questions raised by new authors. Come and get the answers. This lunchtime workshop will be presented by the Chief Editors of SEDIMENTOLOGY and THE DEPOSITIONAL RECORD. During the workshop, you will learn exactly what it takes to turn your outstanding research into an outstanding paper.

**Date:** During congress (lunchtime)

**Cost:** Free

Registration required

#### ISC 2018 Short Courses

##### SC 1. Chemostratigraphic and geological problems in the INRS

**by Jean-Yves Chatellier**

This workshop addresses individuals involved in INRS for the non-desired workflows directly used

**Date:** Sunday, August 12

**Number of participants:** 20

**Cost:** \$ 200 CAD

##### SC 2. Grain size analysis

**by Elisabeth Dietze (University of Cologne)**

The short course will teach the source programming and the depositional system in the depositional processes: learning how to handle and evaluate the model output

**Date:** Sunday, August 12

**Time:** 9:00 am - 12:30 pm



Dr. Greg Baniak, BP Canada, Calgary

[Bio](#)

[Abstract](#)

Using Different Imaging Techn



Dr. Kitty L. Milliken, Bureau of Economic Geology, University of Texas at Austin

[Bio](#)

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[Abstract](#)

Quantifying Mechanisms of Porosity Decline in Mudrocks



Dr. Benoit Beauchamp, Department of

[Bio](#)

[Website](#)

[Abstract](#)

The Sverdrup Basin of Arctic C



Professor J (Jai) PM Syvitski, Community Surface Dynamics Modeling System, University of Colorado

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[Abstract](#)

The Anthropocene — from Concept, to Geological Epoch, to 21st Century Science



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Journey to the Center of the Ice





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*"Орчин үеийн судалгааны шинэ арга зүйг эзэмших арга, техникүүд"*

## **Эзэмших арга, техник**

- **Олон Улсын мэргэжлийн хуралд оролцох**



**EGU2016: Annually in Vienna, Austria**



*"Орчин үеийн судалгааны шинэ арга зүйг эзэмших арга, техникүүд"*

# EGU2016: Annually in Vienna, Austria



Geophysical Research Abstracts  
Vol. 18, EGU2016-5666-2, 2016  
EGU General Assembly 2016  
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## **Sedimentary Feature in Lake Terkhiin Tsagaan and Lake Ugii, Central Mongolia**

Alexander Orkhonselenge (1) and Tuyagerel Davaagatan (2)

(1) Department of Geography, School of Arts and Sciences, National University of Mongolia, Ulaanbaatar 15160, Mongolia (rkhsnlg@num.edu.mn), (2) Institute of Geography, Mongolian Academy of Sciences, Ulaanbaatar 210646, Mongolia

We present characteristics of lacustrine sediments recorded from Lake Terkhiin Tsagaan and Lake Ugii at near latitudes in Central Mongolia. Physical-chemical properties of eight core sediments collected from these lakes show impact of different montane and prairie landscapes on the lacustrine sediments. Lake Terkhiin Tsagaan indicating a montane landscape with higher contents of organic matter and biogenic silica, and finer sediments differs from Lake Ugii reflecting a prairie landscape with higher contents of carbonates and minerals, and coarser sediments. Stratigraphical sequences of the lacustrine sediments recommend that these two lakes have experienced a numerous of environmental conditions during the arid mid Holocene and humid late Holocene reconstructed from the adjacent lakes in Central Mongolia. These Holocene climatic changes inferred from dramatic fluctuations in temperature and precipitation might have been responsible for the identical environmental conditions, resulting in the sedimentary feature in Lake Terkhiin Tsagaan and Lake Ugii. More investigations with precise dating are thus needed from the both lakes for determining lacustrine sedimentations and reconstructing paleoenvironmental changes in Central Mongolia.

**MSc. T.Davaagatan**



*Магистрант, докторант оюутнуудад зориулсан судалгааны семинар*



## **Эзэмших арга, техник**

- Олон Улсын мэргэжлийн хуралд оролцох**



**Ач холбогдол:**

- Шинэ арга зүйтэй танилцах**
- ЭШ-ний ажлын арга зүйд суралцах**
- ОУ-ын эрдэмтэдтэй холбоо тогтоох**
- Шинэ MSc, Ph.D, Postdoc**
- хөтөлбөрүүдийн мэдээлэл авах**
- Шинэ багаж, техниктэй танилцах**
- ....**

# ЭШ-ний ажлын арга зүйд суралцах

The abstract's presentation number: 2

Title: Intensity of soil erosion and sedimentation inferred from spatial distribution of radionuclide  $^{137}\text{Cs}$  in hill slope catchments, South Korea, *Sediment Dynamics in Changing Environments* (Red Book. IAHS Publ. 325, 2008, 130-134)

## Estimating the Soil Erosion on Hill Slopes in Korea using Radionuclide $^{137}\text{Cs}$

Orkhonselenge, A.<sup>1\*</sup>, K. Kashiwaya<sup>2</sup> and Y.K. Kim<sup>3</sup>

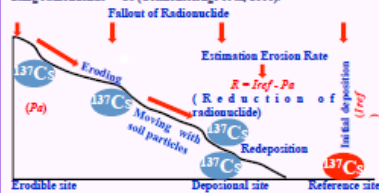
<sup>1</sup> Institute of Geography, Mongolian Academy of Sciences, Ulaanbaatar 210-620, Mongolia, E-mail: [alorsel@gmail.com](mailto:alorsel@gmail.com)

<sup>2</sup> Institute of Nature & Environmental Technology, Kanazawa University, Kakuma 920-1192, Japan, [kashi@kenroku.kanazawa-u.ac.jp](mailto:kashi@kenroku.kanazawa-u.ac.jp)

<sup>3</sup> Korean Department of Nuclear Engineering, Hanyang University, Seoul 133-791, Korea, [ykkim4@hanyang.ac.kr](mailto:ykkim4@hanyang.ac.kr)

### BACKGROUND

Due to its geomorphology, mountainous landscape and climate, heavy rainfall conditions have been the major source of intensive soil erosion by storm water in Korea. Large amounts of soil masses are intensively affected by heavy rainfall events. To date, research of soil erosion in Korea has been focused on only cultivated fields (Park, 2002; Lee et al., 2004; Hur et al., 2005). Several studies have indicated the average concentration of radionuclide  $^{137}\text{Cs}$  within Korean soil. However, to date, any estimation of soil erosion has not been related to the radionuclide  $^{137}\text{Cs}$ . This study represents the first effort at estimation of soil erosion by water in Korea using radionuclide  $^{137}\text{Cs}$  (Orkhonselenge et al., 2006).



### MATERIALS AND METHODS

#### STUDY AREAS



Fig 1. Location of Studied Areas

<b>Uijongbu (A)</b>
Geology: Jurassic Granite (Gr)
Mean annual precipitation: 1500 mm
Vegetation: Deciduous and Broad Leaved Tree
Soil: Entisol, Arisolic
<b>Yanguri (B)</b>
Geology: Pre-Cambrian Granite (Gn)
Mean annual precipitation: 1200 mm
Vegetation: Deciduous and Broad Leaved Tree
Soil: Vertisol, Alfisol
<b>Yeongcheon (C)</b>
Geology: Cretaceous Sedimentary (Ss)
Mean annual precipitation: 1000 mm
Vegetation: Deciduous and Broad Leaved Tree
Soil: Acrisol, Cambisol

#### SAMPLING AND ANALYSIS

##### Field sampling

**Bulk and Core Samples:**  
10 cm and 30 cm depths along slope-transects in each catchment (Undisturbed soils in the reference sites with no evidence of erosion and deposition, and disturbed soils on each different landforms)

##### Sample preparation

- Oven-dried (100°C, 24 h)
- Sieved (<2 mm mesh)
- Sampled with A Steel Core Tube (5 cm diameter)
- Sieved with 2 cm interval

##### Measuring Radionuclide $^{137}\text{Cs}$

Radionuclide	Measurement method	Measurement device
$^{137}\text{Cs}$	Gamma-ray spectrometry (Geometric efficiency)	HPGe Gamma-ray detector
$^{137}\text{Cs}$	Gamma-ray spectrometry (Geometric efficiency)	HPGe Gamma-ray detector
$^{137}\text{Cs}$	Gamma-ray spectrometry (Geometric efficiency)	HPGe Gamma-ray detector
$^{137}\text{Cs}$	Gamma-ray spectrometry (Geometric efficiency)	HPGe Gamma-ray detector

Table 1.  $^{137}\text{Cs}$  is a  $\beta$ -emitter with a half-life of 30.17 years, which is formed mainly as a fission product of  $^{235}\text{U}$  and  $^{239}\text{Pu}$  in nuclear reactors. Counting condition: 2200 sec, Photo peak of 662 keV, Marinelli Beaker, KARI

### RESULTS AND DISCUSSION

Table 2. Baseline inventories of  $^{137}\text{Cs}$  within soil in Korea

Location area	Baseline	Authors	Year
Uijongbu	48.1 Bq/kg	Choi et al.	1999
Taif	779.0 Bq/kg	Choi et al.	1999
Daejeon	14.37 Bq/kg	Lee et al.	1999
Frank	2001 Bq/kg	Lee et al.	1999
Willa	1028 Bq/kg	Lee et al.	1999
Paddy field	17.7 Bq/kg	Choi et al.	1999
Uijongbu field	27.8 Bq/kg	Choi et al.	1999
Uijongbu (this study)	2130 Bq/kg	This study	2005
Uijongbu (this study)	2222 Bq/kg	This study	2005
Uijongbu (this study)	2840 Bq/kg	This study	2005
Uijongbu (this study)	1980 Bq/kg	This study	2005

#### A. UIJONGBU SITE

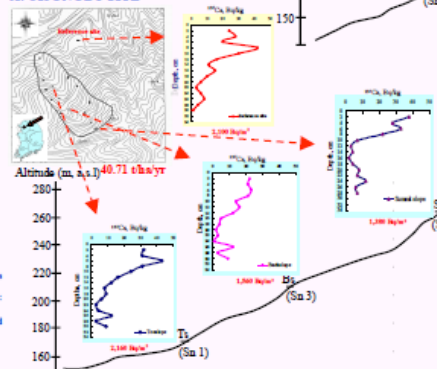


Fig 3. Vertical variability of  $^{137}\text{Cs}$  inventory for the core samples along the hill slopes in the granite (a), gneiss (b) and sedimentary (c) catchment

#### ESTIMATING EROSION RATE

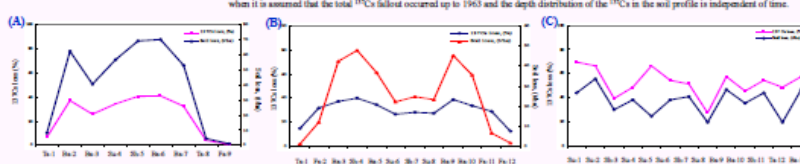


Fig 7. Relationship between soil loss and  $^{137}\text{Cs}$  loss in the Granite (a), Gneiss (b) and Sedimentary (c) catchment (Su-summit slope, Sh-shoulder slope, Bs-backslope, Fs-Footslope and Ts-toeslope)

#### B. YANGURI SITE

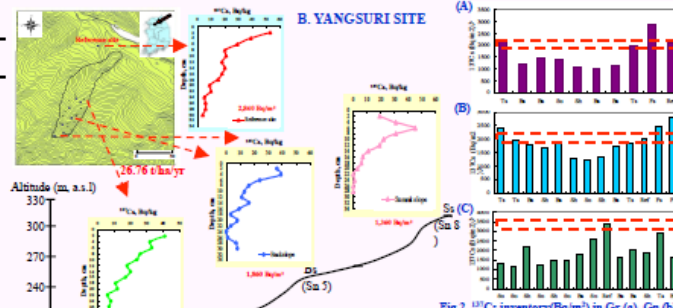


Fig 2.  $^{137}\text{Cs}$  inventory (Bq/m<sup>2</sup>) in Gr (a), Gn (b) and Se (c) catchment: (Su-summit slope, Sh-shoulder slope, Bs-backslope, Fs-Footslope and Ts-toeslope)

#### C. YEONGCHEON SITE

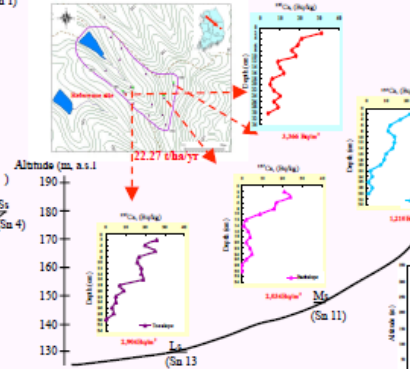


Fig 4. Relationship between organic matter content and  $^{137}\text{Cs}$  inventory in core samples in the catchment

#### EROSION RATE Conversion Model

Diffusion and Migration Model (Walling et al., 2003)

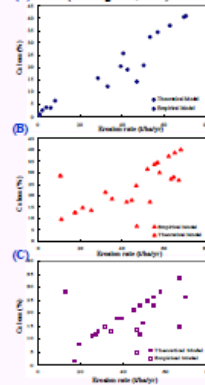


Fig 8. The erosion rate inferred from Profile distribution model

#### Relationship between organic matter content and 137Cs inventory in core samples in the catchment

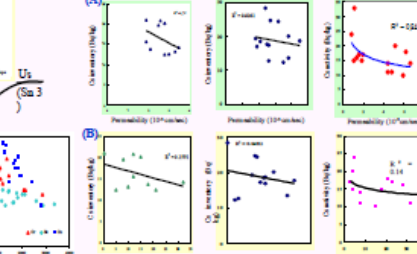


Fig 5. Relationship between soil permeability (a) slope (b) and  $^{137}\text{Cs}$  inventory and altitude

### CONCLUSION

- Rates of soil erosion and sedimentation, estimated from the spatial variability of the radionuclide  $^{137}\text{Cs}$  within the soil profiles, differ depending on the varying bedrock, soil properties, and hydrological processes.
  - The radionuclide  $^{137}\text{Cs}$  input and its loss in the soil show the relative significance of the relationship between  $^{137}\text{Cs}$  loss and soil loss.
  - Spatial distribution of radionuclide  $^{137}\text{Cs}$  has the relationships of:
    - significant: organic matter, water content, and clay content; and
    - insignificant: altitude; slope gradient, and soil permeability
- This study is the modest contribution to the ongoing developments in the study of soil erosion for erosion control, measurement and prediction in Korea.

## **Эзэмших арга, техник**

- Олон Улсын мэргэжлийн экспедицэд оролцох**



**Ач холбогдол:      Шинэ арга зүйд суралцах  
Олон Улсын эрдэмтэдтэй  
хамтран ажиллах холбоо  
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Elleen Eckmeier (Univ of Aachen); Rolf Kipfer (EAWAG, ETH); Irka Hajdas (ETH); Evdokia Tema (Univ. of Torino); Sally Lowick (Univ. of Bern); Simone Priori (CRA-ABP, Firenze); Nathalie Dubois (EAWAG) and others

## based on $^{14}\text{C}$ dating for reconstruction of peat succession in southern Mongolia

Alexander Orkhonselenge

Geomorphology, Department of Geography, School of Arts & Sciences, University of Mongolia, Ulaanbaatar 15160, Mongolia

orkhonselng@num.edu.mn

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yellowish red sands BZ15-4 and the laminated gray mudstone lens BZ15-7 were deposited at 13250 cal yr BP and 10200 cal yr BP, respectively. The mudstone lens is expected as cross-bedded interval, occasionally exhibiting wind-ripple cross lamination during the Younger Dryas. This study infers that more dating of bottom units are thus needed to further support this result regarding the formation period of the succession and to reconstruct paleoclimate and paleoenvironmental changes in southern Mongolia.





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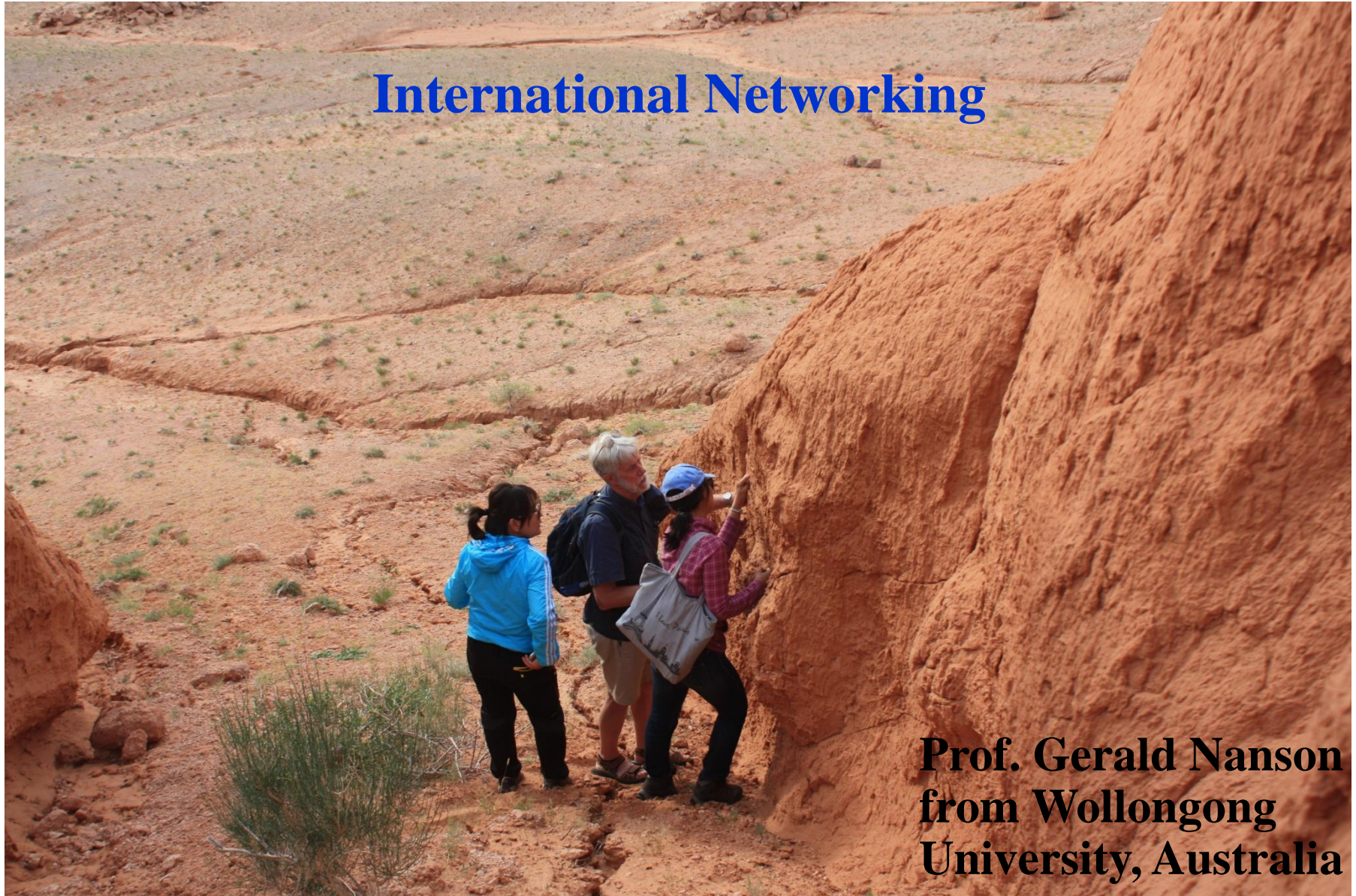


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2016

[Holocene environmental changes in northern Mongolia inferred from diatom and pollen records of peat sediment](#)

Y Fukumoto, K Kashima, A Orkhonselenge, U Ganzorig  
Quaternary international 254, 83-91

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2012

[Holocene sedimentary records from Lake Borsog, eastern shore of Lake Khuvsgul, Mongolia, and their paleoenvironmental implications](#)

A Orkhonselenge, SK Krivonogov, K Mino, K Kashiwaya, IY Safonova, ...  
Quaternary international 290, 95-109

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2013

[Holocene hydro-environmental changes in northern Mongolia inferred from lacustrine sediments in Borsog Bay of Lake Khuvsgul](#)

A Orkhonselenge, K Mino, K Kashiwaya, S Krivonogov, T Yamamoto, ...

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[Holocene Landform Evolution of Lake Khuvsgul basin, Mongolia](#)

A Orkhonselenge, SK Krivonogov, K Mino, K Kashiwaya, M Yamamoto, ...  
Géomorphologie: relief processus environnement 20 (4) 343-354

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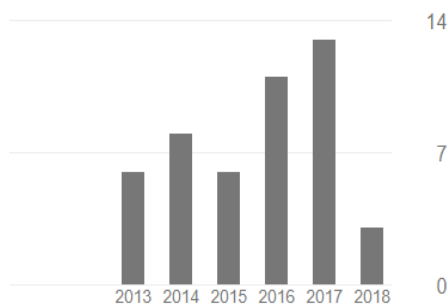
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Co-authors



Jakob Heyman  
University of Gothenburg



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Introduction

A. Orkhonselenge currently works at the Laboratory of Geochemistry & Geomorphology, National University of Mongolia. A. does research in Paleoclimatology and Geomorphology. Their current project is 'CAPP: Central Asia Paleoglaciology Project'.

Skills and expertise (20)

Sedimentology


Geochemistry

Physical Geography

Quaternary Geology

Affiliation

National University of Mongolia



Location  
Ulaanbaatar, Mongolia

Department  
Laboratory of Geochemistry & Geomorphology

Position  
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# "Орчин үеийн судалгааны шинэ арга зүйг эзэмших арга, техникүүд"



Frank Lehmkuhl

39.82 · Prof. Dr.

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## Introduction

Frank Lehmkuhl currently works at the Department of Geography, RWTH Aachen University. Frank does research in Geomorphology, Quaternary Geology and Geography. Their current project is 'Collaborative Research Centre 806 - Project B1: The „Eastern Trajectory”: Last Glacial Palaeogeography and Archaeology of the Eastern Mediterranean and of the Balkan Peninsula.'

Skills and expertise (53)

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Sedimentology

## Affiliation

### RWTH Aachen University

**Location**  
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**Department**  
Department of Geography


**Position**  
Chair, Physical Geography and  
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### Frank Lehmkuhl's Lab

Lab head



Frank Lehmkuhl

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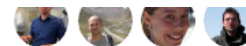
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# Holocene moisture evolution across the Mongolian Plateau and its surrounding areas: A synthesis of climatic records

Wei Wang <sup>a</sup>, Zhaodong Feng <sup>b</sup>

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## Abstract

Based on the review of 26 high-standard Holocene climatic reconstructions (mainly pollen-based) from the Mongolian Plateau and its surrounding areas, temporal and spatial patterns of the Holocene moisture evolution are synthesized. The regionally-averaged moisture history from the summer monsoon-influenced semiarid belt in China (i.e., Region A) demonstrates that the moisture index curve is broadly in agreement with the synthesized East Asian Monsoon Strength curve, both following the general trend of the West Tropical Pacific SST that is in turn the delayed response to the northern hemispheric summer solar insolation. The regionally-averaged moisture indices from the winter monsoon-dominated southern Siberia including Lake Baikal area and the Altai Mountains (i.e., Region B) exhibit a general declining trends since 10.6–9.6 cal. kyr BP,

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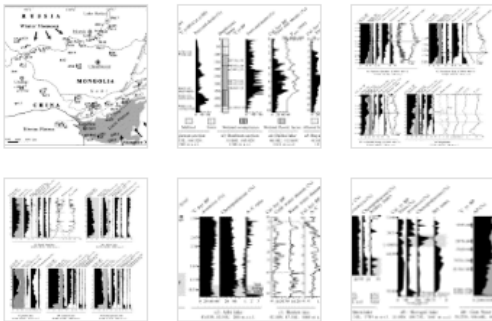
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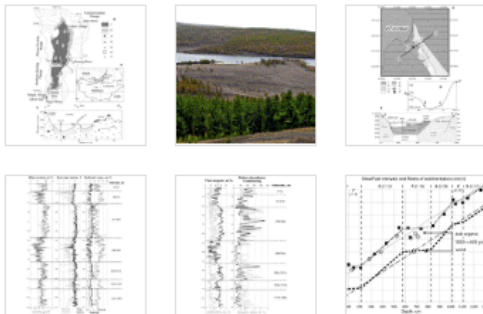
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# Holocene sedimentary records from Lake Borsog, eastern shore of Lake Khuvsgul, Mongolia, and their paleoenvironmental implications

A. Orkhonselenge<sup>a, 1</sup>, S.K. Krivonogov<sup>b, c, ✉</sup>, K. Mino<sup>a</sup>, K. Kashiwaya<sup>a</sup>, I.Y. Safonova<sup>b, c</sup>, M. Yamamoto<sup>a</sup>, K. Kashima<sup>d</sup>, T. Nakamura<sup>e</sup>, J.Y. Kim<sup>b</sup>

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## Abstract

This paper presents new sedimentological, geochronological and diatom data from a 13-m core of sediment from Lake Borsog, a former bay of Lake Khuvsgul (also known as Hovsgol and Khubsugul) in northwestern Mongolia. Lake Borsog was separated from Khuvsgul during the early stages of a post-glacial transgression and possesses a high-resolution record of the Holocene. The data show three short events of higher-rate sedimentation at 7.4–7.1, 4.8–4.5, and 1.0–0.9 ka cal. BP, which are possibly related to lake level drops, reduction of lake area, progradation of the delta of the Borsog River and higher erosion of the exposed lake shores. The drops in lake level match the previously

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