



I.A.G./A.I.G.  
International Association of  
Geomorphologists  
*Association Internationale des  
Géomorphologues*



Working Group

on

*Sediment Budgets in Cold Environments*

## **SEDIBUD Second Newsletter**

October 11<sup>th</sup>, 2007

**- 2007 B -**



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# 1. Second SEDIBUD Workshop, September 15 – 19, 2007, Abisko (Sweden) – Summary

## 1.1. Paper and Poster Presentations and Field Trip

13 papers, 9 posters and an introduction to the field trip to Kärkevagge were presented at the workshop. The one-day field trip to Kärkevagge was led by John C. Dixon. Armelle Decaulne distributed SEDIBUD fleeces to all workshop participants.

The abstract volume including all paper and poster abstracts as well as the preliminary list of SEDIBUD key test sites, the introduction to the field trip and names and contact addresses of all workshop participants is published:

Beylich, A.A., Lamoureux, S.F. & A. Decaulne (Eds.) (2007): *Second Workshop of I.A.G./A.I.G. SEDIBUD – Sediment Budgets in Cold Environments: Sediment Fluxes and Sediment Budgets in Changing High-Latitude & High-Altitude Cold Environments*. NGU Report 2007.052. 57 pp.

The abstract volume is available online at: [http://www.ngu.no/FileArchive/237/2007\\_052.pdf](http://www.ngu.no/FileArchive/237/2007_052.pdf)



*Participants of the Second SEDIBUD Workshop in Abisko and Kärkevagge, Sweden, September 15-19, 2007 (Photos by Katja Laute and Þorsteinn Sæmundsson).*

## 1.2. SEDIFLUX Manual

### 1.2.1. The First Edition of the SEDIFLUX Manual is published

Beylich, A.A. & J. Warburton (Eds.) (2007): *Analysis of Source-to-Sink-Fluxes and Sediment Budgets in Changing High-Latitude and High-Altitude Cold Environments*. SEDIFLUX Manual. First Edition. NGU Report 2007.053, 158 pp.

All contributing authors and all participants of the Second SEDIBUD Workshop in Abisko received a hard copy of the Manual. The Manual is also available online: [http://www.ngu.no/FileArchive/237/2007\\_053.pdf](http://www.ngu.no/FileArchive/237/2007_053.pdf)

### 1.2.2. Revision of the SEDIFLUX Manual

The first edition of the SEDIFLUX Manual will be revised.

Responsible persons for each chapter were appointed during the workshop.

All workshop participants and all contributing authors are invited to comment on the current version of the manual. Please send your comments and suggestions for additions and improvements before October 15, 2007, to the responsible contact person appointed for each chapter:

#### *Responsible persons for Chapter 1:*

John C. Dixon (contact person, [jcdixon@uark.edu](mailto:jcdixon@uark.edu))  
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## 1.3. Publication of Papers and Posters presented at the Second SEDIBUD Workshop

The publication of a special issue of the journal Arctic, Antarctic and Alpine Research (AAAR) with presentations from the Second SEDIBUD Workshop is planned.

## 1.4. Presentation and Discussion of SEDIBUD Key Test Sites

A number of SEDIBUD key test sites were presented at the workshop.

It was stressed that an as complete as possible cover of different cold environments should be achieved by the network of SEDIBUD key test sites. Currently 37 key test sites are identified (the current list of SEDIBUD key test sites is available at <http://www.geomorph.org/wg/wgsb.html>). The network shall be extended to at least 40 sites. Dorothea Gintz and Bernd Etzelmüller are identifying and contacting potential additional site researchers to close gaps, which were identified during the workshop (a standard invitation letter has been prepared by Achim A. Beylich together with a formal letter of support for funding proposals related to research at SEDIBUD key test sites and a formal letter of support for claiming funding to attend forthcoming SEDIBUD meetings).

Scott F. Lamoureux will prepare a form sheet and will ask all SEDIBUD key test site proposers to submit short descriptions (about 2 pages) of each key test site in a standardised format before November 15, 2007. These key site descriptions will be compiled and published in hard copy and will also be available online at the SEDIBUD website together with a world map showing the distribution of SEDIBUD key test sites.

Jukka Käyhkö, Dorothea Gintz and Achim A. Beylich will compile a key site database using information, which has been received with the key test site proposal forms. This SEDIBUD key test site database will be used to identify further possible gaps with respect to the widest possible cover of cold environments and will be placed at the SEDIBUD website by November 15, 2007.

After November 15, 2007, different levels of key test sites will be defined. It is expected that collaboration within the group will act as catalyst to increase activity at sites and to develop new sites in underrepresented regions.

The SEDIBUD program and the network of SEDIBUD key test sites shall be presented (abstract submitted) at the First IPY Workshop on Sustaining Arctic Observing Networks, November 12-14, 2007, Stockholm (<http://www.arcticobserving.org>)

### **1.5. Metadata Database**

The development of the SEDIBUD metadata database will be started at the Third SEDIBUD Workshop in Boulder, Colorado, September 17-21, 2008.

### **1.6. Discussion of SEDIBUD Science Questions**

The discussion of SEDIBUD Science Questions was led by John C. Dixon. The central research question of the SEDIBUD working group is to: assess the contemporary sediment fluxes in cold environments, with emphasis on both particulate and dissolved components. John C. Dixon will prepare a description of the central research question and related hypotheses and circulate this description to all participants of the workshop for comment. The final version of this description will be placed at the SEDIBUD website.

### **1.7. Third SEDIBUD Workshop**

The Third SEDIBUD Workshop will take place from September 17 to 21, 2008 at the Niwot Ridge Mountain Field Station, Boulder, Colorado, USA.

## **2. Forthcoming relevant meetings and sessions**

### **2.1. 33rd International Geological Congress, Oslo, Norway, August 5-14, 2008**

<http://www.33igc.org>

Achim A. Beylich & Scott F. Lamoureux are organising a Symposium on *Present-Day and Holocene Sediment Budgets in Cold Environments*. Deadline for abstract submission is February 1, 2008.

Further information: [Achim.Beylich@ngu.no](mailto:Achim.Beylich@ngu.no)

### **2.2. First International Polar Year (IPY) Workshop on Sustaining Arctic Observing Networks, Stockholm, Sweden, November 12-14, 2007**

<http://www.arcticobserving.org/>

The goal of the workshop is to improve coordination and to promote sustained, integrated arctic observing networks that provide free, open and timely access to high quality data that realize broad societal benefits throughout the Arctic and around the World.

SEDIBUD will be presented at the workshop by Achim A. Beylich.

### **2.3. 3rd Global Change Research Networking Meeting, Innsbruck, October 18-19, 2007**

<http://mri.scnatweb.ch/content/view/164/68/>

The 3rd meeting of the Global Change Research Network for European Mountains (GCRN\_EM) responds to the GCRN\_EM members' expectations formulated during the 2nd meeting in Zurich (February 1-2, 2007). Connecting Global Change researchers interested in mountain topics and informing about EC's funding schemes (FP7, COST and Interreg) are the main objectives of the meeting. Further, as one of the regional networks of the Mountain Research Initiative (MRI), the GCR Network for European Mountains aims at the implementation of the GLOCHAMORE Research Strategy. The meeting is organized back-to-back with the conference on "Managing Alpine Future", Innsbruck, October 15-17, 2007.

SEDIBUD will be presented at this Meeting.

## 3. Contributions from SEDIBUD Members

### 3.1. Colin E. Thorn

I would like to draw everyone's attention to the suggestion for uniform chemical weathering studies made in the SCANNET Newsletter No. 10. (<http://www.scannet.nu/>). The successful use of weathering disks in a 5- and 10-year study in Kärkevagge, northern Sweden using dolomite, granite, and limestone disks strongly suggests that various microenvironments, for example varying vegetation cover types, may be successfully monitored over relatively short periods. The Sedibud interest group would be an ideal one to promote uniform measures in any number of mass wasting, mechanical and chemical weathering contexts. In general terms it is increasingly important that uniform measures be determined at the institutional, rather than personal, level in order to promote truly comparative monitoring and evaluation of surficial processes in geomorphology. I suggest a useful preliminary stage would be a workshop in which the entire range of necessary protocols be determined.

Thorn, C.E., Dixon, J.C., Darmody, R.G., Allen, C.E. 2006. Ten Years (1994-2004) of 'potential' weathering in Kärkevagge, Swedish Lapland. *Earth Surface Processes and Landforms*, Vol. **31**: 992-1002.

### 3.2. Hanna Ridefelt

A compilation of solifluction data from the Abisko region is planned by Hanna Ridefelt, Uppsala University. Work on solifluction movement in the region has mainly been concentrated to the valley of Kärkevagge, but some other locations have also been investigated in different studies. There is also unpublished solifluction movement data from the region. Compiling existing data (published and unpublished) should provide an important knowledge on the spatial variation of solifluction movement as well as the variations over time in the present region. (If you know of anyone who has unpublished data on solifluction movement from this region you are welcome to contact Hanna Ridefelt, [hanna.ridefelt@geo.uu.se](mailto:hanna.ridefelt@geo.uu.se)).

## 4. Views of a SEDIBUD key site



*Fnjóskadalur field site, Iceland, 65°N – 17°W (Photos: Þorsteinn Sæmundsson & Armelle Decaulne)*

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*Next SEDIBUD Newsletter: December 2007*

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Achim A Beylich, Chair  
Scott F. Lamoureux, Vice-Chair  
Armelle Decaulne, Secretary

Please send all relevant contribution concerning all forthcoming events related to SEDIBUD and cold environments to Dr. Armelle Decaulne, SEDIBUD Secretary ([armelle@nnv.is](mailto:armelle@nnv.is)) to be included in the next SEDIBUD Newsletters.