



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

**Working Group on Sediment Budgets  
in Cold Environments (SEDIBUD)**  
<http://www.geomorph.org/wg/wgsb.html>

**7<sup>th</sup> SEDIBUD Workshop**

***Towards an integrated analysis of environmental drivers  
and rates of contemporary solute and sedimentary fluxes  
in changing cold climate environments  
- From coordinated field data generation to  
integration and modelling -***

**and**

**SEDIBUD Summer School for Doctoral Students**

***Quantitative analysis of geomorphologic processes:  
Field methods, experimental techniques  
and modelling***

**September 10 – 17, 2012:  
Trondheim (September 10 – 13, 2012) and  
Loen / Nordfjord (September 13 – 17, 2012)  
Norway**

**- Third Circular (July 31, 2012) -**

**Dear all,**

Thank you very much for your participation in the 7<sup>th</sup> Workshop of the I.A.G. / A.I.G. Working Group SEDIBUD (Sediment Budgets in Cold Environments), which will take place in Trondheim (Geological Survey of Norway, NGU: <http://www.ngu.no> and Loen (Sande-Camping Loen: <http://www.sande-camping.no>), Norway, September 10 – 17, 2012. The 7<sup>th</sup> SEDIBUD Workshop will be combined with a SEDIBUD Summer School designed for Doctoral Students.

This *Third Circular* includes the Workshop and Summer School Programme and detailed Practical Information.

## **Workshop and Summer School Programme**

### **Monday, September 10, 2012**

16:30 – 18:30

Registration of participants and welcome in the **foyer of the Geological Survey of Norway (NGU) (Leiv Eirikssons vei 39, NO-7491 Trondheim)**

18:00

Reception for participants (with pizza, beer and soft drinks) **(NGU foyer, Leiv Eirikssons vei 39, NO-7491 Trondheim)**

### **Tuesday, September 11, 2012**

08:00 - 09:00

Registration of participants **(registration desk in NGU foyer, Leiv Eirikssons vei 39, NO-7491 Trondheim)**

09:00 – 09:15

Opening of the Meeting and welcome to Trondheim (NGU conference hall)

## Oral presentations (NGU conference hall)

### **Session 1**

*Chairs: Þorsteinn Sæmundsson & Armelle Decaulne*

09:15 – 09:45

**Achim A. Beylich, Scott F. Lamoureux & Armelle Decaulne:** Towards a coordinated and integrated analysis of environmental drivers and rates of contemporary solute and sedimentary fluxes in changing cold climate environments – The SEDIBUD Programme as an approach

09:45 – 10:15

**Zbigniew Zwoliński, Grzegorz Rachlewicz, Andrzej Kostrzewski, Marek Marciniak & Józef Szpikowski:** Functioning of contemporary physical-geographical processes in polar geoecosystems

10:15 – 10.45

Coffee and Tea

10:45 – 11:15

**Nikita I. Tananaev:** Turbidity observations in sediment flux studies: examples from Russian subarctic and mountain watersheds

11:15 – 11:45

**Erik Rascher, Henning Baewert, Karl-Heinz Schmidt & David Morche:**

Characterization of bed load transport in an alpine river: a comparison between bed load transport equations and field measurements from the Partnach River, Bavaria, Germany

11:45 – 12:15

**John C. Dixon & Cassandra Marnocha:** Bacterially facilitated rock coating formation as a component of the geochemical budget in cold climates: Examples from Kärkevagge, Swedish Lapland

12:15 – 13:00

Lunch (NGU Kantine)

## **Session 2**

*Chairs: John C. Dixon & Zbigniew Zwoliński*

13:00 – 13:30

**Þorsteinn Sæmundsson & Halldór G. Pétursson:** Debris flow, rock fall and rockslide activity in NW Iceland: Distribution and triggering factors

13:30 – 14:00

**Armelle Decaulne, Ólafur Eggertsson, Katja Laute & Achim A. Beylich:** The main snow-avalanche winters of the last 100 years documented by dendrogeomorphology in the Bødalen valley, inner Nordfjord, western Norway

14:00 – 14:30

**Charles Le Coeur:** The Roche Nue debris covered glacier and rock glacier system: a good site for rockwall retreat rate assessment

14:30 – 15:00

**Isabelle Gärtner-Roer, Johann Müller, R. Kenner, David Morche & Marcia Phillips:** Sediment transfer on a periglacial mountain slope

15:00 – 15:15

Coffee and Tea

15:15 – 15:45

**Marian Georgescu, Anca Munteanu & Olimpiu Pop:** Reconstructing the spatio-temporal activity of snow avalanches in Piatra Craiului Mountains (Romanian Carpathians) based on tree ring data. Case study – Padinile Frumoase area

15:45 – 16:15

**Dominika Stan:** Products of periglacial disintegration in Hrubý Jeseník Mountains

16:15 – 17:00

Poster Session

*Chair: Katja Laute*

**Achim A. Beylich & Katja Laute:** Spatiotemporal variability and environmental controls of chemical and mechanical denudation rates in the fjord landscape of the inner Nordfjord, western Norway

**Marie Gardent & Philip Deline:** Recently deglaciated areas of the French Alps

**Katja Laute & Achim A. Beylich:** Morphometric controls on snow avalanche distribution and activity at hillslopes in steep mountain valleys in western Norway

**Susan Liermann & Achim A. Beylich:** Temporal variability of contemporary sedimentary fluxes and sedimentation rates in the Sætrevatnet proglacial lake, upper Bødalen, western Norway

**Ola M. Sæther, G. Åberg & E. Steinnes:** Lead content and isotope distribution in podzolic soil profiles over different types of bedrock in a formerly glaciated terrain (Oslo, Norway)

19:30

Dinner (in Trondheim city centre)

## **Wednesday, September 12, 2012**

### **Session 3**

*Chairs: Armelle Decaulne & Zbigniew Zwoliński*

09:00 – 09:30

**Henning Baewert, Karl-Heinz Schmidt & David Morche:** Sediment budget and roughness parameters of an alpine proglacial environment (Gepatschferner, Austria)

09:30 – 10:00

**Matvey V. Debolskiy & Nikita I. Tananaev:** Seasonal variations in suspended sediment concentrations of small rivers of the Northern Yenisei region

10:00 – 10:30

**Maciej Dabski:** Schmidt Hammer R-values, weathering rind thickness and micro-roughness: in search of relative age indicators of Fláajökull moraines. Iceland

10:30 – 11:00

Coffee and Tea

11:00 – 11:30

**Anders Schomacker:** Time-series of digital elevation models for quantification of changes in modern glacial environments (*invited summer school lecture*)

11:30 – 12:00

**Reginald Hermanns, Thierry Oppikofer, Hallvard Berg, Einar Anda, Lars H. Blikra, Martina Böhme, Halvor Bunkholt, Giovanni B. Crosta, Halgeir Dahle, Graziella Devoli, Olianne Eikenæs, Luzia Fischer, Michel Jaboyedoff, Simon Löw, Stine Sætre & Freddy Yugsi Molina:** Considering rock slope stability for rock avalanche hazard assessment in Norway (*invited summer school lecture*)

12:15 – 13:00

Lunch (NGU Kantine)

#### **Session 4**

*Chairs: Achim A. Beylich & John C. Dixon*

13:00 – 14:00

**Bernd Etzelmüller:** Climate change, mountain permafrost and slope stability (*invited key summer school lecture*)

14:00 – 14:30

**Ruth Hindshaw:** Glaciers, weathering and isotopes (*invited summer school lecture*)

14:30 – 15:00

Coffee and Tea

15:00 – 15:30

**Bjørn Christian Kvisvik, Jostein Bakke, Svein Olaf Dahl, Mathias Trachsel, Nicholas Balascio, Anne Bjune & Torbjørn Lorentzen:** Complex lateglacial alpine glacier variability at Andøya, arctic Norway

15:30 – 16:00

**Jørund Raukleiv Strømsøe:** Weathering patterns in high latitude regolith

16:00 – 16:30

**Johann Müller, Isabelle Gärtner-Roer & Christian Ginzler:** On the performance of digital elevation models in a high mountain environment

16:30 – 17:00

**Temitope D. Timothy Oyedotun, H. Burningham & J.R. French:** Historical morphodynamics of the Hayle estuary inlet, southwest UK

17:00 – 18:00

SEDIBUD Business Meeting

19:30

Dinner (in Trondheim city centre)

## **Thursday, September 13, 2012**

08:25 – 18:30

Travel from Trondheim to Loen (Nordfjord) **(see detailed practical information below)**

18:30

Arrival at Sande-Camping in Loen (Nordfjord)

19:15

Dinner at Sande-Camping in Loen

20:15 – 21:00

*Invited summer school lecture:*

**Thierry Oppikofer:** Terrestrial laser scanning applications in hillslope processes

## **Friday, September 14, 2012**

08:45 – 10:45

**Thierry Oppikofer:** Field presentation to terrestrial laser scanning applications in hillslope processes

10:45 – 11:15

Coffee and Tea

## Summer School Lectures

11:15 – 12:00

**Armelle Decaulne:** Visible versus invisible tales in geomorphology. What does field investigation tell? A focus on dendrogeomorphology and dendrochronology applied to snow-avalanche research

12:00 – 12:45

Lunch at Sande-Camping

12:45 – 13:30

**Porsteinn Sæmundsson & Armelle Decaulne:** Sediment transport associated with snow avalanche activity and its implications for natural hazard management

13:30 – 14:15

**John C. Dixon:** Weathering field experiments in periglacial environments

14:15 – 15:00

**Zbigniew Zwoliński:** Styles of dissolved and suspended flux from Arctic and Antarctic catchments

15:00 – 15:30

Coffee and Tea

15:30 – 16:30

**Atle Nesje:** Holocene climate change in Scandinavia with implications for hydrology and sediment transport (*invited key summer school lecture*)

16:30 – 18:00

Discussion rounds

18:30

Dinner at Sande-Camping

Evening discussion rounds



## **Saturday, September 15, 2012**

Field trip to the Erdalen drainage basin with field presentations

## **Sunday, September 16, 2012**

Field trip to the Bødalen drainage basin with field presentations

Final discussion rounds.

## **Monday, September 17, 2012**

Departure of participants from Sande-Camping in Loen (Nordfjord) in the morning (after breakfast).

Transfer of participants from Sande-Camping to the public bus stations in Stryn or Loen.

**The SEDIBUD Summer School ends in Loen (Nordfjord)**

## **Practical Information**

### **Costs:**

#### *Only Workshop in Trondheim, September 10 – 13, 2012:*

There is no workshop fee. Participants are instead asked to book and pay individually their accommodation in Trondheim city and to pay individually for all lunches at NGU and dinners in Trondheim city they wish to join. The costs for accommodation are accordingly flexible and depend on the type of accommodation (all kinds of accommodation from youth hostel to high standard hotel do exist in Trondheim city, see details under <http://www.trondheim.no/accommodation/>), which participants will choose for

themselves. The costs for joint meals will be approximately 50 NOK (6 Euros) per person for one lunch at NGU and about 250 NOK (30 Euros) per person for one dinner in Trondheim city.

The reception on September 10, all coffee / tea breaks, the abstract volume and other workshop materials will be provided by the organisers (NGU) and will be free of costs.

*Workshop in Trondheim plus Field Trips in Loen / Nordfjord // Summer School:*

Bookings for accommodation and all meals in Loen / Nordfjord (Sande-Camping) are arranged for all registered participants. All participants are asked to pay individually at Sande-Camping in Loen for their accommodation and all meals in Loen when we arrive at Sande-Camping on September 13, 2012 in the evening. The complete costs for accommodation and all meals at Sande-Camping in Loen for the period September 13 – 17, 2012, are 1715 NOK (219 Euros) per person.

The costs for local field trips in Nordfjord (September 14 – 16, 2012) are 500 NOK (60 Euros) per person and have to be paid by participants participating in this part of the event (September 13 – 17, 2012) when they receive their workshop materials at NGU in Trondheim on September 10 or in the morning of September 11, 2012.

The costs for the **transfer from Trondheim to Loen (September 13, 2012)** are ca. 540 NOK (ca. 70 Euros) per person in total and have to be paid by participants participating in this part of the event (September 13 – 17, 2012). We will use public train (<http://www.nsb.no>) and public bus (<http://www.nor-way.no>) with the following connections:

**Train:**

From Trondheim Central Station (Trondheim S) to Otta, September 13, 2012; Departure from Trondheim S: 08:25, Arrival at Otta: 11:33. The easiest, clearly cheapest and strongly recommended way to buy a ticket for this train trip is to buy a ticket online through the NSB website <http://www.nsb.no>.

If you buy your train ticket online the price per ticket is 199 NOK (26 Euro).

There will be time for lunch, sightseeing and shopping in Otta.

**Bus:**

From Otta to Stryn, September 13, 2012; Departure from Otta: 15:05, Arrival at Stryn bus station: 18:10.

You can buy your bus ticket directly in the bus. The price per bus ticket is 340 NOK (44 Euro). We will make a group reservation so that there will be a seat in the bus booked for you.

Transfer from Stryn public bus station to Sande-Camping in Loen is arranged by the organisers. Arrival at Sande-Camping in Loen will be at 18:30.

***Travel information:***

Trondheim in Norway can be easily reached by **plane, train or bus**. Detailed information on how to travel to Trondheim is found under <http://www.trondheim.no/howtogether/>.

The Geological Survey of Norway (NGU) is situated in Leiv Eirikssons vei 39, NO-7491 Trondheim. It can be reached from Trondheim city centre with the public busses number 3 (destination LADE) and number 4 (destination LADE). Please leave the bus at the bus stop called RINGVE SKOLE from where you can see a sign showing in which direction you have to walk to reach NGU.

Travelling **from Loen (Nordfjord) or Stryn (Nordfjord) back to your home** is possible by **bus** and detailed information on how to travel by bus **from Loen or Stryn to Trondheim, Oslo or Bergen** is available at <http://www.nor-way.no>.

***Contact:***

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**We are looking forward to welcoming you in Trondheim.**

**With best regards,**

**Achim A. Beylich (Trondheim) (organiser)**

**Katja Laute (Trondheim) (co-organiser)**

**Armelle Decaulne (Clermont-Ferrand) (co-organiser)**

