

Annual Report 2011

I.A.G. / A.I.G. SEDIBUD (Sediment Budgets in Cold Environments)

<http://www.geomorph.org/wg/wgsb.html>

Main SEDIBUD Activities in 2011

SEDIBUD Sixth Workshop, Zakopane, Poland, 3 - 11 September 2011

The Sixth SEDIBUD Workshop with the theme "Sedimentary fluxes dynamics in the changing mountain and polar environment – monitoring, record & consequences" was held in Zakopane, Poland. The 20 workshop participants came from 12 countries and 3 continents, and overall, 14 research institutes were represented. The local organizing committee included Grzegorz Rachlewicz, Achim A. Beylich, Magdalena Ratajczak-Szczerba and Krzysztof Rymer and the scientific committee was composed of Grzegorz Rachlewicz, Achim A. Beylich, Armelle Decaulne, Scott F. Lamoureux and Zbigniew Zwolinski. Logistical support was provided by the Association of Polish Geomorphologists and the Adam Mickiewicz University, Poznan. The workshop included paper and poster sessions covering a wide range of different cold climate environments (e.g., Spitsbergen, Norway, Pyreneans, Austrian Alps, Quebec, Antarctica, etc.). A field excursion was part of the workshop enabling the visit of active research sites in the High Tatra mountains (field presentations by Zofia Raczkowska and Adam Kotarba) and focusing on sedimentary fluxes on experimental slopes.

In addition, a pre-conference and a post-conference excursion were organized. The pre-conference excursion was providing an introduction to the Baltic Sea coast and to the field station Biala Gora. The focus was on coastal erosion of the cliff formed by the Wolin frontal moraine and on the Gardno Lake experimental catchment. The excursion also offered the possibility to visit the facilities of the Poznan Geocological Station in Storkowo and the Faculty of Geographical and Geological Sciences at the Adam Mickiewicz University in Poznan.

The post-conference excursion offered the opportunity to discover the Western Tatra (field presentations by Zofia Raczkowska, Dominika Walach-Wronska and Eliza Placzkowska), the Tatra Massif from the Polish and Slovakian sides, and also from the "inside" with the visit of the Demianovska ice cave.

A workshop report was sent to the I.A.G./A.I.G. Newsletter.

Next SEDIBUD Key Tasks

Defined SEDIBUD key tasks for the coming years include

- The continued generation and compilation of comparable longer-term datasets on contemporary sedimentary fluxes and sediment yields from SEDIBUD key test sites worldwide
- The continued extension of the SEDIBUD metadata database with these datasets
- The testing of defined SEDIBUD hypotheses by using datasets continuously compiled in the SEDIBUD metadata database

New and Upcoming SEDIBUD Publications

Special Issues:

- International Conference on Geomorphology, Melbourne, Australia, 2009: Supplementary Issue to *Zeitschrift für Geomorphologie* – including papers from the Conference Sessions of the Working Groups *Small Catchments* and *SEDIBUD*: Beylich, A.A. & Z. Zwolinski (Eds) (2012): Hydrogeomorphological processes in catchment geocosystems. *Zeitschrift für Geomorphologie N.F.*, Volume 56, Supplementary Issue 1.
- Fourth SEDIBUD Workshop in Kingston, Canada, 2009: Special Issue to *Earth Surface Processes and Landforms* (Eds J.F. Orwin & J. Warburton) (in review)
- Fifth SEDIBUD Workshop in Saudarkrokur, Iceland, 2010: Special Issue to *GEOMORPHOLOGY* (Eds A.A. Beylich, A. Decaulne & S.F. Lamoureux) (in review)
- Sixth SEDIBUD Workshop in Zakopane, Poland, 2011: Supplementary Issue to *Zeitschrift für Geomorphologie* (Eds A. Decaulne, Grzegorz Rachlewicz, Scott F. Lamoureux & A.A. Beylich (in preparation)

Call for Annual Data from SEDIBUD Key Test Sites

A call for annual data from SEDIBUD key test sites was sent out on November 14, 2011. The collected data shall be included in a multi-authored SEDIBUD key paper with first inter-site comparisons and analyses of metadata.

SEDIBUD Hypotheses

A revised version of the SEDIBUD hypotheses was published online (SEDIBUD website) on October 26, 2011.

SEDIBUD and Young Scientists

The existing links between SEDIBUD and the APECS working group on Sediment Budgets in Cold Environments have been developed further.

SEDIBUD Newsletter

The SEDIBUD Newsletter continues to be an active forum for the Working Group.

SEDIBUD Website

The SEDIBUD website at <http://www.geomorph.org/wg/wgsb.html> is frequently updated and contains all relevant SEDIBUD documents and materials as well as detailed information on activities and achievements (SEDIBUD Workshops and Conference Sessions, SEDIBUD Presentations, List of SEDIBUD Key Test Sites (44 SEDIBUD Key Test Sites by March 2011), SEDIBUD Key Test Site Database, SEDIBUD Publications, SEDIBUD Annual Report 2010, etc.) of the SEDIBUD group.

Seventh SEDIBUD Workshop, Trondheim and Loen, Norway, September 10 - 17, 2012

The Seventh SEDIBUD Workshop with the theme "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 modeling" will be held in Trondheim and Loen, Norway, from September 10 to 17, 2012. The Workshop will be combined with a SEDIBUD Summer School for Doctoral Students with the theme "Quantitative analysis of geomorphologic processes: Field methods, experimental techniques and modeling".

Trondheim, January 31, 2012

Achim A. Beylich

Chair of I.A.G. / A.I.G. SEDIBUD