



ESF Network SEDIFLUX

**Sedimentary Source-to-Sink-Fluxes
in Cold Environments**

SEDIFLUX NEWSLETTER

November 17th, 2006

- 2006 C -

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1. SEDIFLUX Website

The frequently updated SEDIFLUX Website is installed at <http://www.ngu.no/sediflux>.

Here you can find all relevant information on ESF SEDIFLUX.

Detailed information on I.A.G./A.I.G. SEDIBUD can be found at

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

2. SEDIFLUX Activities from January 2004 until November 2006

The following activities have been performed so far within the ESF Network SEDIFLUX.

ESF SEDIFLUX will continue until end of 2006.

Meetings:

- First SEDIFLUX Steering Committee Meeting in Reykjavik, June 17th, 2004
- First SEDIFLUX Science Meeting in Sauðárkrókur, Iceland, June 18th-21st, 2004, see <http://www.nnv.is>
- Second SEDIFLUX Steering Committee Meeting in Clermont-Ferrand, January 19th, 2005
- Second SEDIFLUX Science Meeting in Clermont-Ferrand, January 20th – 22nd, 2005, information: samuel.etienne@lettres.univ-bpclermont.fr
- EUCOP II, June 12th – 16th, 2005, Potsdam, Germany: Conference Session 05: "Hydrology and Sediment Fluxes in Permafrost Regions", Organized in Association with ESF SEDIFLUX; Session Co-chairs: Achim A. Beylich & Bernd Etzelmüller, see: <http://www.awi-potsdam.de/EUCOP/>
- Third SEDIFLUX Steering Committee Meeting in Durham, UK, December 16th, 2005.
- Third SEDIFLUX Science Meeting in Durham, UK, December 16th – 19th, 2006, see <http://www.geography.dur.ac.uk/conf/tssm>
- Fourth SEDIFLUX Steering Committee Meeting Meeting in Trondheim, Norway, October 29th, 2006.

- Fourth SEDIFLUX Science Meeting & First Workshop of I.A.G./A.I.G. SEDIBUD, in Trondheim, Norway, October 29th – November 02nd, 2006, see http://www.ngu.no/sediflux/sciencemeeting_index.html

Dissemination and Publications:

- SEDIFLUX Newsletter (2004A, 2004B, 2005A, 2005B, 2005C, 2006A, 2006B, 2006C)
- SEDIFLUX Poster
- SEDIFLUX Flyer
- SEDIFLUX Introduction (Power Point)
- SEDIFLUX Main Website (<http://www.ngu.no/sediflux>)
- ESF SEDIFLUX Website (<http://www.esf.org/sediflux>)
- Local Websites (Uppsala, Sauðárkrókur, Clermont-Ferrand, Durham, Trondheim: see links at websites mentioned above)
- Publications and Reports (see below under 6.)

Development of the ESF SEDIFLUX Database and ESF SEDIFLUX Webpage:

- Collection of material for the SEDIFLUX Projects, Test Sites and Members Database (see Form Sheets in SEDIFLUX Newsletters 2004A and 2004B and new Call in this Newsletter 2006C)
- See <http://www.ngu.no/sediflux>

Proposals related to SEDIFLUX:

- IPY: Expression of Intent SEDIFLUX (EoI no. 816): Included and endorsed within the IPY Full Proposal IPY BIPOMAC (ID no. 130) and linked to the IPY Full Proposals IPY TSP (ID no. 50), IPY ANTPAS (ID no. 33), IPY ARCTIC-HYDRA (ID no. 104), IPY KINNVIKA (ID no. 58), IPY ACCO-Net (ID no. 90), IPY SEA0 (ID no. 317) and IPY APEX (ID no. 39)
- IPY: Expression of Intent DYNAFLUX (EoI no. 402): Included and endorsed within the IPY Full Proposal IPY BIPOMAC (ID no. 130) and linked to the IPY Full Proposal IPY TSP (ID no. 50)

- International Association of Geomorphologists (I.A.G./A.I.G.) Working Group Proposal SEDIBUD (Sediment Budgets in Cold Environments):
Approved on September 10th, 2005 (<http://www.geomorph.org>,
<http://www.geomorph.org/wg/wgsb.html>)
- ESF Research Networking Programme Proposal DYNACOLD (Dynamics and Landscape Formation in Cold Environments) (submitted to ESF)
- EU FP7 Marie-Curie RTN Proposal DYNAFLUX (Dynamics, Fluxes, Stability and Succession in Cold Environments) (in preparation)

3. Fourth ESF SEDIFLUX Science Meeting & First Workshop of the I.A.G./A.I.G. Working Group SEDIBUD

The *Fourth ESF SEDIFLUX Science Meeting & First Workshop of the I.A.G./A.I.G. Working Group SEDIBUD* (Sediment Budgets in Cold Environments) was held at the Geological Survey of Norway (NGU) in Trondheim, Norway, from October 29th – November 02nd, 2006. The Meeting was scientifically organized by Achim A. Beylich (NGU, Trondheim) and included Invited Keynote Speeches, Invited Commentaries, Oral and Poster Presentations as well as extended Working Group Sessions and an Excursion.

80 scientists from 14 countries participated in the Meeting and very good progress was achieved with the preparation of the ESF SEDIFLUX Manual, with the definition of critical key test sites (catchments) within SEDIFLUX/SEDIBUD, with the discussion and development of relevant science questions to be addressed within SEDIFLUX/SEDIBUD, and with the further development of activities which were started within ESF SEDIFLUX and which will be continued and extended with the global I.A.G./A.I.G. SEDIBUD programme (long-term investigations/monitoring at SEDIFLUX/SEDIBUD key test sites, database development, etc.) (<http://www.geomorph.org/wg/wgsb.html>).

Detailed information on the Meeting, including the complete scientific programme and all accepted abstracts, is available at http://www.ngu.no/sediflux/sciencemeeting_index.html.

A detailed Report on the Meeting will be sent out soon to all SEDIFLUX/SEDIBUD Members together with a List of Criteria for Critical SEDIBUD Key Test Catchments, an Invitation to submit Proposals for Suggested SEDIBUD Key Test Catchments and a Discription of the Next Scheduled Steps within SEDIBUD to be taken until the Second I.A.G./A.I.G. SEDIBUD Meeting in Abisko (Sweden) in mid-September 2007.

4. Relevant News

New Call for Completed SEDIFLUX Database Form Sheets A, B and C:

A new Call for Completed ESF SEDIFLUX Database Project, Study Site and Member Information Forms (SEDIFLUX Database Form Sheets A, B and C) is sent out to all current SEDIFLUX/SEDIBUD Members (currently more than 300 scientists from more than 30 countries worldwide) together with this ESF SEDIFLUX Newsletter 2006C. The ESF SEDIFLUX Database Form Sheets A, B, and C are also available at the SEDIFLUX Webpage at: <http://www.ngu.no/sediflux>.

I.A.G./A.I.G. SEDIBUD:

The I.A.G./A.I.G Working Group SEDIBUD (<http://www.geomorph.org/wg/wgsb.html>) will from 2007 onwards be headed by a group of three scientists including the Chair of SEDIBUD, the new SEDIBUD Vice-Chair and the new SEDIBUD Secretary:

Chair:

Assoc. Professor Achim A. Beylich (Trondheim, Norway)

Vice-Chair:

Assoc. Professor Scott Lamoureux (Kingston, Canada)

Secretary:

Dr. Armelle Decaulne (Clermont-Ferrand, France)

The I.A.G./A.I.G. SEDIBUD Steering Committee will from 2007 onwards be composed of current SEDIBUD Core Group Members and invited new Members from non-European countries.

5. Forthcoming Relevant Meetings and Sessions

SEDIBUD Workshops and SEDIBUD Sessions/Symposia

Second I.A.G./A.I.G. SEDIBUD Workshop

The Second I.A.G./A.I.G. SEDIBUD Workshop will take place in Abisko (Sweden) in mid-September 2007. The Workshop will include Oral and Poster Presentations as well as extended Working Group Sessions. Field Trips to Latnjavagge and Kärkevagge are planned.

Detailed information on the Workshop will be sent out with the I.A.G./A.I.G. SEDIBUD Newsletter 2007A in February 2007.

Contact: Achim.Beylich@ngu.no

I.A.G./A.I.G. Regional Conference on Geomorphology – Geodiversity of polar landforms – Longyearbyen, Spitsbergen, August 2-5, 2007.

I.A.G./A.I.G. SEDIBUD will organize a *SEDIBUD Seminar* and a *Workshop for Young Geomorphologists* (Achim A. Beylich). More information will follow soon.

Contact: Achim.Beylich@ngu.no

33rd International Geological Congress, Oslo, Norway, 5-14th August, 2008

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

Achim A. Beylich (Trondheim) & Scott Lamoureux (Kingston) have proposed a *Symposium on Present-Day and Holocene Sediment Budgets in Cold Environments*.

Contact: Achim.Beylich@ngu.no

Other Relevant Meetings and Sessions

European Geosciences Union General Assembly 2007, Vienna, Austria, 15-20 April 2007

(<http://meetings.copernicus.org/egu2007/>)

Please notice the following interesting Session at EGU 2007:

New session at EGU 2007 (Vienna, Austria, 15-20 April 2007)

Dear SEDIFLUXers and SEDIBUD-Members,

We would like to draw your attention to a new session at EGU:

Cold regions geomorphology: linking high- and mid-latitudes
(Session GM16, co-listed in CL & CR)

and herewith invite you to submit an abstract.

Session Information

For historical reasons, geomorphological research in arctic and non-arctic glacial and periglacial regions has primarily evolved along separate lines.

As a consequence, the analogies of processes in these regions have been given less attention than they warrant.

Ongoing glacial and periglacial processes in arctic environments can be seen as analogies of processes and changes that took place in mid-latitude mountain regions during the Lateglacial (e.g. melting of low-land permafrost, retreat of piedmont glaciers). Current changes in mid-latitude mountain ranges, on the other hand, might be auguries of changes occurring in arctic regions within a context of future climate warming (e.g. speed-up of creeping permafrost features, relictification of rockglaciers, reformation of permafrost in recently deglaciated glacier forefields, etc.).

Our aim is to link findings from geomorphological studies in polar, sub-polar and mid-latitude regions, by bringing together researchers who are either specialized in one of these regions or can report on comparative studies from both regions.

See also:

http://www.cosis.net/members/meetings/sessions/information.php?p_id=243&s_id=4517

Abstracts can now be submitted on:

<http://meetings.copernicus.org/egu2007/>

*** abstract deadline: 15 January 2007 ***

For applicants requesting financial support: 8 December 2006

With kind regards,

Regula Frauenfelder, Ole Humlum, Isabelle Roer

6. SEDIFLUX Publications, Reports and Material

Beylich, A.A. (Ed.) (2006): SEDIFLUX - Sedimentary Source-to-Sink-Fluxes in Cold Environments. First ESF SEDIFLUX Science Meeting, Saudarkrokur, Iceland.

Geomorphology **80** (1-2). 146pp.

Beylich, A.A. (Ed.) (2006): Fourth ESF SEDIFLUX Science Meeting & First Workshop of I.A.G./A.I.G. SEDIBUD: Source-to-Sink-Fluxes and Sediment Budgets in Cold Environments. October 29th-November 02nd, 2006, Trondheim, Norway. *NGF Abstracts and Proceedings of the Geological Society of Norway*, **4**, 2006. 85pp.

Beylich, A.A. (Ed.) (2006): Fourth ESF SEDIFLUX Science Meeting & First Workshop of I.A.G./A.I.G. SEDIBUD. *NGU Report* **2006.069**. 2006. 85pp.

Beylich, A.A. & the SEDIBUD Team (2006): The I.A.G./A.I.G. Working Group SEDIBUD – Sediment Budgets in Cold Environments: Introduction and overview. *NGF Abstracts and Proceedings of the Geological Society of Norway*, **4**: 26-27.

Beylich, A.A. and the SEDIFLUX Team (2005): SEDIFLUX: A European Science Foundation (ESF) Network. *Sixth International Conference on Geomorphology, September 7-11, 2005, Zaragoza (Spain). Abstracts Volume*: 19.

Beylich, A.A. and the SEDIFLUX Team (2005): The European Science Foundation (ESF) Network SEDIFLUX. *ICARP II, Conference Material* (CD).

Beylich, A.A. & the SEDIFLUX Team (2006): The European Science Foundation (ESF) Network Sedimentary Source-to-Sink-Fluxes in Cold Environments (SEDIFLUX). 1st TOPONORGE Workshop, Geological Survey of Norway (NGU), Trondheim, 6.-7. March 2006. *NGF Abstracts and Proceedings of the Geological Society of Norway*, **1**: 8.

Beylich, A.A., Etienne, S., Etzelmüller, B., Gordeev, V.V., Käyhkö, J., Rachold, V., Russell, A.J., Schmidt, K.-H., Sæmundsson, P., Tweed, F.S. & J. Warburton (2006): The European Science Foundation (ESF) Network SEDIFLUX – An introduction and overview. In: Beylich, A.A. (Ed.): SEDIFLUX. Sedimentary Source-to-Sink-Fluxes in Cold Environments. Special Issue. *Geomorphology* **80** (1-2): 3-7.

Beylich, A.A., Etienne, S., Etzelmüller, B., Gordeev, V.V., Käyhkö, J., Lantuit, H., Russell, A.J., Sæmundsson, Th., Schmidt, K.-H., Tweed, F.S. & J. Warburton (2006): The European Science Foundation (ESF) Network – Sedimentary Source-to-Sink-Fluxes in Cold Environments - (SEDIFLUX, 2004-2006). *NGF Abstracts and Proceedings of the Geological Society of Norway*, **4**: 24-25.

Beylich, A.A., Etienne, S., Etzelmüller, B., Gordeev, V.V., Käyhkö, J., Rachold, V., Russell, A.J., Schmidt, K.-H., Sæmundsson, P., Tweed, F.S. & J. Warburton (2005): Sedimentary Source-to-Sink-Fluxes in Cold Environments – Information on the European Science Foundation (ESF) Network SEDIFLUX. *Zeitschrift für Geomorphologie N.F., Suppl.-Vol. 138*: 229-234.

Beylich, A.A., Etienne, S., Etzelmüller, B., Gordeev, V.V., Käyhkö, J., Rachold, V., Russell, A.J., Schmidt, K.-H., Sæmundsson, P., Tweed, F.S., & J. Warburton (2005): Sedimentary Source-to-Sink-Fluxes in Cold Environments (SEDIFLUX): An Interdisciplinary ESF Network. *HeadWater2005*, Conference Papers (CD). Bergen.

Beylich, A.A., Etienne, S., Etzelmüller, B., Gordeev, V.V., Käyhkö, J., Rachold, V., Russell, A.J., Schmidt, K.-H., Sæmundsson, P., Tweed, F.S. & J. Warburton (2005): The European Science Foundation (ESF) Network SEDIFLUX: Sedimentary Source-to-Sink-Fluxes in Cold Environments (2004 – 2006) – Introduction. *EUCOP II Programme and Abstracts*: 92-93.

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Beylich, A.A., Etienne, S., Etzelmüller, B., Gordeev, V.V., Käyhkö, J., Rachold, V., Russell, A.J., Schmidt, K.-H., Sæmundsson, P., Tweed, F.S. & J. Warburton (2004): The ESF Network SEDIFLUX: “Sedimentary Source-to-Sink-Fluxes in Cold Environments” – an introduction. Náttúrustofa Norðurlands vestra. NNV-2004-003. June 2004, 27-28.

Beylich, A.A., Sæmundsson, P., Decaulne, A. & O. Sandberg (Eds.) (2004) : First Science Meeting of the European Science Foundation ESF – Network SEDIFLUX. Sauðárkrókur, Iceland, June 18th – 21st, 2004. - Extended Abstracts of Science Meeting Contributions. Náttúrustofa Norðurlands vestra. NNV-2004-003. 103 pp.

(<http://www.nnv.is/skrar/AbstractVolume-pdfversion.pdf>)

- Etienne, S. (Ed.) (2005):** Shifting Lands. New insights into periglacial geomorphology. 2nd ESF Network SEDIFLUX meeting 20-22nd January 2005, Clermont-Ferrand *Seteun Geoenvironment Series*, Clermont-Ferrand, 126 pp.
- Etienne, S. (Ed.) (2006):** New insights into periglacial geomorphology: the SEDIFLUX International meeting "Shifting lands" (Clermont-Ferrand, January 20-22, 2005). *Géomorphologie. Relief, Processus, Environment* **3**, 2006.
- Etienne, S. (2005):** Shifting lands, conférence internationale sur la géomorphologie periglaciaire, Clermont-Ferrand, 20-22 Janvier 2005. *Environnements périglaciaires*, **12**, 2005: 5-7.
- Gordeev, V.V. (2005):** The first workshop on the project "The European Science Foundation Network: Sedimentary Source-to-Sink-Fluxes in Cold Environments" (19-21 June, 2004, Saudarkrokur, Iceland). *Geomorphology, NI (January-February)*, pp. 109-110 (in Russian).
- Mercier, D. & S. Etienne (Eds.):** Paraglacial geomorphology: processes and paraglacial context. *Geomorphology* (in press).
- Slaymaker, O. (2004):** Report on the First Science Meeting of the European Science Foundation Network SEDIFLUX held in Iceland from June 18 – June 21, 2004. *International Association of Geomorphologists Newsletter* No. 21 (3/2004) (<http://www.geomorph.org>)
- Tweed, F.S. (2005):** Report on the first SEDIFLUX Science Meeting in Sauðárkrókur, Iceland, June 2004. *Jökull*, **54**: 85-86.
- Tweed, F.S. (2006):** Sediment budgets and rates of sediment transfer across cold environments in Europe – the third SEDIFLUX Science Meeting, held at Durham University, UK, December 16th – 19th, 2005. *Geophemer* no. **98**, Autumn 2006: 35-36.
- Warburton, J. (2005):** Sediment budgets and rates of sediment transfer across cold environments in Europe. European Science Foundation – 3rd SEDIFLUX Science Meeting. December 16-19th 2005, Durham University, UK. Abstract Volume. 31pp.
- Warburton, J. (Ed.) (2007):** Sediment budgets and rates of sediment transfers across cold environments in Europe. *Geografiska Annaler, A*, Special Issue (2007/1) (in press).
- Warburton, J. (2007):** Sediment budgets and rates of sediment transfer across cold environments in Europe: a commentary. *Geografiska Annaler, A*, Special Issue (2007/1) (in press).

7. Next Newsletter

The ESF SEDIFLUX Newsletter will from 2007 onwards continue as I.A.G./A.I.G. SEDIBUD Newsletter and will be sent out by the new Secretary of I.A.G./A.I.G. SEDIBUD, Dr. Armelle Decaulne, three times per year. The first I.A.G./A.I.G. SEDIBUD Newsletter (2007A) will be sent out in February 2007. Please send contributions for this I.A.G./A.I.G. SEDIBUD Newsletter 2007A to Dr. Armelle Decaulne: armelle@nnv.is

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