



ESF Network SEDIFLUX

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

SEDIFLUX NEWSLETTER

February 10th, 2006

- 2006 A -

Content

1. SEDIFLUX Website

2. SEDIFLUX Activities from January 2004 until February 2006

**3. Report on the Third SEDIFLUX Science Meeting in
Durham, UK, December 16th – 19th, 2005**

4. Fourth SEDIFLUX Science Meeting

5. SEDIFLUX Publications and Reports

6. News and other Meetings

7. Next SEDIFLUX Newsletter

1. SEDIFLUX Website

The SEDIFLUX Website is installed under <http://www.ngu.no/sediflux>.

Here you can find all relevant information on SEDIFLUX.

2. SEDIFLUX Activities from January 2004 until February 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.
- 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 Science Meeting in Durham, UK, December 16th – 19th, 2006 (see <http://www.geography.dur.ac.uk/conf/tssm>, and see report in SEDIFLUX Newsletter 2006A, under point 3.)

Dissemination and Publications:

- SEDIFLUX Newsletter (2004A, 2004B, 2005A, 2005B, 2005C, 2006A)
- SEDIFLUX Poster
- SEDIFLUX Flyer
- SEDIFLUX Introduction (Power Point)
- SEDIFLUX Website (<http://www.ngu.no/sediflux>)

- ESF SEDIFLUX Website (<http://www.esf.org/sediflux>)
- Local Websites (Uppsala, Sauðárkrókur, Clermont-Ferrand, Durham: see links on websites mentioned above)
- Publications and Reports

Development of the SEDIFLUX Database and SEDIFLUX Webpage:

- Collection of material for the SEDIFLUX Projects, Test Sites and Members Database (see form sheets in SEDIFLUX Newsletters 2004A and 2004B)
- 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 SEAO (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.ngu.no/sedibud>)
- ESF Scientific Programme Proposal DYNACOLD (Dynamics and Landscape Formation in Cold Environments) (submitted to ESF on October 27th, 2005)
- EU FP7 Marie-Curie RTN DYNAFLUX (Dynamics, Fluxes, Stability and Succession in Cold Environments) (in preparation).

3. Report on the Third SEDIFLUX Science Meeting in Durham, UK, December 16th – 19th, 2006

Sediment budgets and rates of sediment transfer across cold environments in Europe

by Jeff Warburton, Durham, UK

The third Science Meeting of the Sedimentary Source-to-Sink-Fluxes in Cold Environments (SEDIFLUX) ESF Network was held at Durham University (UK) between December 16 to 19, 2005. A group of 35 International scientists from 10 countries meet to discuss rates of sediment transfer across a range of cold environments in Europe and elsewhere. The workshop, funded by the European Science Foundation and hosted by the Department of Geography at Durham University (Scientific Organizer: Dr Jeff Warburton) was structured around three main paper sessions with poster sessions and working group discussions. Business was divided equally between original scientific presentations and the four main working groups of the network. The main paper sessions were split into three broadly themed topics including: Arctic environments; Alpine environments and Fringe (marginal) environments. This framework is being used for a proposed Special Issue of *Geografiska Annaler* entitled *Sediment budgets and rates of sediment transfer across cold environments in Europe*, which will include 10-12 of the main papers presented at the workshop. Outside of the paper sessions workshop discussion was focussed on the four principal working groups of SEDIFLUX, which include: (1) Selection of critical test catchments; (2) Analysis of geographical and geological settings of test catchments; (3) Analysis of present-day sediment fluxes, and; (4) Integration and data management. All workshop attendees participated in these discussions and considerable progress was achieved in terms of the structure of a 'handbook', which will consist of six main chapters summarising good practice under these topics and placing them in a wider context. The success of the workshop can be measured against the primary aim of the ESF Network which is to provide an integrated analysis of sediment transfers and sediment budgets across cold environments; and encourage dialogue between scientists with different geomorphological interests and differing process expertise. Both were very much in evidence in Durham. The fourth Science Meeting of SEDIFLUX will be held in Trondheim, at the Geological Survey of Norway from October 29th to November 1st 2006. Further details of the SEDIFLUX Network can be found at: <http://www.ngu.no/sediflux>



Participants of the Third SEDIFLUX Science Meeting Durham University (UK), December 2005.

4. Fourth SEDIFLUX Science Meeting

The fourth ESF SEDIFLUX Science Meeting will be held together with the first Workshop of the new I.A.G./A.I.G. Working Group SEDIBUD between October 29th to November 02nd, 2006, and will be hosted by the Geological Survey of Norway (NGU) in Trondheim.

The Meeting will include:

Invited keynote speeches, reviews and commentaries, technical oral and poster sessions, and working group meetings: October 30th and 31st, 2006

Excursion *Trondheim and surrounding areas*: November 01st, 2006

Further information on the Meeting and on Registration and Abstract Submission will be sent out soon.

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5. SEDIFLUX Publications and Reports

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

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., Etienne, S., Etzelmüller, B., Gordeev, V.V., Käyhkö, J., Rachold, V., Russell, A.J., Schmidt, K.-H., Sæmundsson, Þ., 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* (in press).

Beylich, A.A., Etienne, S., Etzelmüller, B., Gordeev, V.V., Käyhkö, J., Rachold, V., Russell, A.J., Schmidt, K.-H., Sæmundsson, Þ., 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, Þ., 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, Þ., 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.

Beylich, A.A., Etienne, S., Etzelmüller, B., Gordeev, V.V., Käyhkö, J., Rachold, V., Russell, A.J., Schmidt, K.-H., Sæmundsson, Þ., Tweed, F.S. & J. Warburton (2004): Information on the European Science Foundation (ESF) Network: Sedimentary Source-to-Sink-Fluxes in Cold Environments (SEDIFLUX). *Geophysical Research Abstracts*, **6**, 06798, 2004.

Beylich, A.A., Etienne, S., Etzelmüller, B., Gordeev, V.V., Käyhkö, J., Rachold, V., Russell, A.J., Schmidt, K.-H., Sæmundsson, Þ., Tweed, F.S. & J. Warburton (2005): The European Science Foundation (ESF) Network SEDIFLUX: Sedimentary Source-to-Sink-Fluxes in Cold Environments. *NGF Abstracts and Proceedings*, no. 1, 2005: 11-12.

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. Seteun Publish., Clermont-Ferrand, 126 pp.) (<http://www.seteun.net/finalprogram.pdf>)

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, N1 (January-February)*, pp. 109-110 (in Russian).

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.

6. News and other Meetings

New I.A.G./A.I.G. Working Group SEDIBUD:

The proposed I.A.G./A.I.G. Working Group SEDIBUD (Sediment Budgets in Cold Environments) was approved for a four-years period (2006-2009) on September 10th, 2005, during the Sixth International Conference on Geomorphology, September 7-11, 2005, Zaragoza (Spain) (<http://www.geomorph.org>, <http://www.ngu.no/sedibud>). A first kick-off meeting took place during the third ESF SEDIFLUX Science Meeting in Durham, UK, December 16th – 19th, 2006 (see under 3). The first main Workshop of I.A.G./A.I.G. SEDIBUD will take place in combination with the fourth ESF SEDIFLUX Science Meeting in Trondheim, Norway, October 29th – November 02nd, 2006 (see under 4.).

Hugues Lantuit (AWI Potsdam, Germany) is joining the SEDIFLUX Steering Committee since December 16th, 2005. He is replacing **Volker Rachold** who had to leave the

SEDIFLUX Steering Committee because of his new job situation. Many thanks to Volker for his dedicated work for SEDIFLUX!

ICARP II:

The Second International Conference on Arctic Research Planning ICARP II took place in Copenhagen, DK, from November 10th to 12th, 2005. See: <http://www.icarp.dk>

Arctic Science Summit Week, Potsdam, Germany, 22nd – 29th of March, 2006

See: <http://www.assw2006.de>

EGU Conference, Vienna, Austria, 02 – 07 April 2006:

See: <http://meetings.copernicus.org/egu2006/>

SCAR XXIX and COMNAP XVIII Meetings, Hobart Tasmania, July 9th – 19th, 2006

See: <http://www.scarcomnap2006.org/>

7. Next SEDIFLUX Newsletter

The next SEDIFLUX Newsletter (**SEDIFLUX Newsletter 2006 B**) will be sent out in **June 2006**. Please send contributions for this SEDIFLUX Newsletter to

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