



**norden**

**Nordic Forest Research  
Cooperation Committee - SNS**

**Project no: SNS-95**

**'NOLTFOX'**

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## FINAL PROJECT REPORT


Please notice that the size of text sections in the form can be adjusted if needed.

**The length of the final report should not exceed 5 pages.**

1. Projekttittel	Fortsatt utveckling av den nordiska databasen med skogliga långsiktiga försök																															
2. Title of project	Further development of the Nordic database of long-term forest experiments																															
3. Project leader /coordinator (name, address, telephone, telefax, e- mail)	<p><b>Fredrika von Sydow 2004-2006</b> Enheten för skoglig fältforskning, SLU, Box 7083, SE-750 07 Uppsala, Sweden</p> <p><b>Kristian Karlsson, from 2007-01-01 -&gt;</b> METLA, Kannus Research Station, Box 44, FI-69101 Kannus, Finland Phone+358-10-2113413, Fax+358-10-2113401, kristian.karlsson@metla.fi</p>																															
4. Time schedule	The project started 1/1 2004 and ended 31/12 2006																															
5. Project cost	<p>SNS-grant: NOK 900.000</p> <p>Total project cost (2004 + 2005 + 2006): NOK 912.867 + 755.281 + 854.901</p> <p>Economic account for 2006 as generally expressed in a SNS statusreport:</p> <p>(all in euros; 1€ = 8.0965 NOK)</p> <table border="0"> <tr> <td>Use of funds:</td> <td>SNS-funds transferred from 2005</td> <td>4.900</td> </tr> <tr> <td>SNS funds 35.195</td> <td>SNS-grant 2006</td> <td>37.610</td> </tr> <tr> <td>Own funds 49.331</td> <td>Available SNS-funds 2006</td> <td>42.410</td> </tr> <tr> <td>Other funds 21.063</td> <td>Specific use of SNS funds:</td> <td></td> </tr> <tr> <td>Sum funds 105.589</td> <td>Salary incl. social costs</td> <td>20.667</td> </tr> <tr> <td></td> <td>Travel cost</td> <td>9.403</td> </tr> <tr> <td>Share of SNS-financing 33%</td> <td>Material</td> <td>2.956</td> </tr> <tr> <td></td> <td>Other cost</td> <td>2.567</td> </tr> <tr> <td></td> <td>Sum cost</td> <td>35.195</td> </tr> <tr> <td></td> <td>Non-used SNS funds 2006 (to be transferred to 2007*)</td> <td>7.215</td> </tr> </table> <p>*)an application for continuing Noltfox 2007 has been accepted by SNS</p>		Use of funds:	SNS-funds transferred from 2005	4.900	SNS funds 35.195	SNS-grant 2006	37.610	Own funds 49.331	Available SNS-funds 2006	42.410	Other funds 21.063	Specific use of SNS funds:		Sum funds 105.589	Salary incl. social costs	20.667		Travel cost	9.403	Share of SNS-financing 33%	Material	2.956		Other cost	2.567		Sum cost	35.195		Non-used SNS funds 2006 (to be transferred to 2007*)	7.215
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<p>5. The purpose of the project/main problems/hypotheses addressed</p>	<p><b>The purpose of this project was to:</b></p> <ul style="list-style-type: none"> <li>- expand and further develop the high quality Nordic and Baltic database for long-term forest experiments in order to promote evaluation, maintenance and establishment of forest field experiments as an important fundament for sustainable forestry guidelines.</li> <li>- increase the scientific co-operation, knowledge and awareness about existing research, facilities and long-term forest field experiments within and between the Nordic and Baltic countries and in an international context.</li> <li>- reduce the use of resources by concentrating the activities on high quality field experiments and the promotion of effective use of existing experimental data.</li> <li>- support research concerning a broad range of the by SNS seven prioritized research fields that are dependent on long-term field experiments, foremost genetic resources, development of sustainable silviculture treatments, forest and climate change, and effects of biomass removal.</li> </ul>
<p>6. Brief description of the research plan and of eventual larger deviations from the plan</p>	<p><b>Description of the activity</b></p> <p>The existing organization with a co-ordination group has continued according to the suggestions given by the evaluation team (see attachment 1 page 5 to 7). Contact was taken with forest research organizations in Estonia, Latvia and Lithuania with an invitation to participate in the co-operation and to join NOLTFOX as full members. They have all agreed and are now taking part of NOLTFOX. Contact was also taken with the two universities in Finland with forest faculties but they were not so interested, evidently because their amount of long term experiments is rather small. Meetings were held at appointed places during 2004, 2005 and 2006. The first was a two-day meeting in Uppsala, Sweden and the second in Tartu in Estonia, the third (2005) in Kaunas, Lithuania and the last (2006) in Riga Latvia.</p> <p><b>Deviations from the plan</b></p> <p>The database is owned and managed by Metla (acknowledged by SNS), but otherwise there is not any official agreement between participating partners yet. As the database is getting updated and more countries are involved, this should be done during the coming year. Recommended optional links to data etc. was regarded unrealistically difficult to implement at this stage, instead most efforts have been to include literature from research made on the experiments. Unfortunately, adding literature is slightly late compared to the time schedule. There have been some problems with Baltic characters, which is the reason for some delay of launching.</p>

<p>7. Results (max 2 pages)</p>	<p><b>Improvements of the database</b> Corrections have been made according to suggestions from the evaluation group. Links have been updated.</p> <p>The homepage has been updated and changes has been made e.g. interactive map for finding certain experiments , searching through all text fields, continuous updating and an inquiry for visitors has been launched. The response of the launched questionnaire has not been so successful.</p> <p>The work on adding references to the experiments has resulted in that almost 3000 references have been included and launched from Finland, Norway, Sweden and Estonia.</p> <p>Numbers of experiments included and launched from the Baltic countries are from Estonia (154), Latvia (81) and Lithuania (491).</p> <p>Latvia has prepared a larger set of experiment data and Lithuania has updated their data including about 70 literature references as well. Denmark has also prepared a list of literature references. These new data sets are ready waiting to be uploaded to the database.</p> <p>The number of visitors to the database has steadily increased with 18 % each year since 2004, with 53 % since 2003 (see attachment 2.)</p> <p><b>More general results</b> The project activities has caused increasing awareness of the importance and potential of long term forests experiments in the Baltic countries, especially in Estonia, where new projects have been started in order to improve the utilization of forest experiments.</p> <p>The project activities have also led to some international contacts. The main result being that the UK Forestry Commission joined the Noltfox database as an 'associate member', e.g. using no SNS funds, but carrying all expenses on their own.</p> <p>Experimental forest research has been supported by presenting and describing the Noltfox database, as well as by demonstrating how you can use it (see section 9).</p>
<p>8. What advantages has been gained by the Nordic collaboration (i.e. by the cooperating partners, use of the project results)</p>	<ul style="list-style-type: none"> <li>- It will increase the Nordic and Baltic co-operation in field research and the national and international awareness of the importance of this research.</li> <li>- Information will be spread about long-term field experiments - their geographical and thematic distribution.</li> <li>- The use of the experiments will be facilitated by adding references with information of results.</li> </ul>

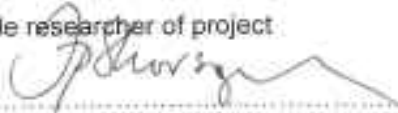

<p>9. Publications and other communication activities (please list scientific reports, more popular reports and other communication activities)</p>	<p>Information about NOLTFOX was presented in Tartu at conference called "Forest permanent plots and forest models" 2004-12-02.</p> <p>NOLTFOX information and database demonstration was performed at the yearly Forest conference run by SLU in Uppsala 2004-11-30 – 12-01.</p> <p>In most of the countries information drives have been performed after the new version of NOLTFOX was launched in September 2005.</p> <p>The NOLTFOX database has been presented and promoted at national forestry meetings and conferences in Norway during the period 2005–2006.</p> <p>Baliuckas, V. 2005. NOLTFOX – Nordic Database of Long-Term Forest Experiments Now Includes Also the Baltic Countries, <i>Baltic Forestry</i>, 11(2): 118-119 (Chronicle).</p> <p>Information about NOLTFOX was presented in Alnarp, Sweden, at the conference called Bridging the gap: Policies and science tools in implementing sustainable forest management 2005-10-17-19 arranged by ENFOR.</p> <p>Baumanis, L, Jansons, Ā. 2006. Ilglaicīgo zinātnisko pētījumu objektu inventarizācija un datu bāzes izveide (Summary: Inventory of long term research plots and database establishment). <i>Mežzinātne</i> 16(49): 102-112.</p> <p>Karlsson, K. 2006. Searching the NOLTFOX database for ash related experiments. Poster presentation at RecAsh 2nd International Seminar 'From Extraction of Forest Fuels to Recycling of Wood Ash', in Karlstad, Sweden, Sept. 26-27(28).</p>
<p>10. Project summary (about 1/3 page) with main emphasis on results for possible use in the News &amp; Views section of Scandinavian Journal of Forest Research</p>	<p>SNS - the Nordic Forest Research Co-operation Committee had for some years noticed that long-term field experiments in forest faced many of the same challenges in all Nordic countries. One important prerequisite for increased scientific co-operation is to have a common database showing all experiments in the Nordic countries with a common classification standard and NOLTFOX is the result. In 2001, the first version of NOLTFOX was launched to the public. Two years later, in 2003, NOLTFOX was evaluated by an international group and they recommended SNS to continue the development of NOLTFOX. In accordance with the evaluation outcome the work on including the Baltic countries (Estonia, Latvia and Lithuania) in NOLTFOX was initiated in 2004. A further development of NOLTFOX was also proposed with expansion of the database with references to published literature relevant to the long term field experiments. The new version of NOLTFOX including literature and the Baltic countries was launched in 2005. The aim with the database is to stimulate to an increased Nordic, Baltic and international co-operation within forest research, to increase the scientific quality of field research and to avoid expensive duplication of new experiments in the countries. Increased use of existing data and results are also expected to be a result of NOLTFOX.</p>
<p>11. Date and signature</p>	<p>5.2.2007</p> <p> Kristian Karlsson</p>

**SNS****ECONOMIC ACCOUNT regarding 2005-2006***(Is filled in by each project participant and sent to the project co-ordinator)*

Project name ..... NOLTFOX (A303/A304).....

Research organisation ..... Danish Centre for Forest, Landscape and Planning – KVL.....

Country ..... Denmark.....

ACCOUNT OF SNS GRANT		In the countries currency	Converted to EURO
<b>Receipts</b>	SNS-grant transferred from 2004	..... 0.....	.....
	SNS-grant 2005-6	..... 62.025.....	..... 8.320.....
	<i>Total of available funds 2006</i>	..... 62.025.....	..... 8.320.....
<b>Costs *</b>	Wages including social fees	..... 7.898.....	..... 1.059.....
	Travels	..... 741.....	..... 99.....
	Materiel	..... 1.486.....	..... 199.....
	Other expenses	..... 11.596.....	..... 1.555.....
	<i>Total expenditure 2006</i>	..... 21.721.....	..... 2.914.....
	<b>Unused grants (Transferred to 2007) **</b>	..... 40.304.....	..... 5.406.....
<b>NATIONAL CO-FINANCING OF THE PROJECT during 2006 ***</b>			
	<b>Organisation's own means (funds) (own wage, etc)</b>	..... 20.925.....	..... 2.807.....
	<b>Other funds (official and private grants)</b>	..... 66.950.....	..... 8.981.....
	<i>Co-financing, totally</i>	..... 87.875.....	..... 11.788.....
	<b>Rate of exchange</b>	.....	..... 7,455.....
<b>SIGNATURE</b>			
Date	..... 30., januar 2007.....		
Responsible researcher of project		Responsible official	
.....	.....	.....	.....
..... Jens Peter Skovsgaard.....	.....	..... Aase Rupsch.....	.....
..... (name elucidation).....	.....	..... (name elucidation).....	.....
.....	.....	..... regnskabschef.....	.....
.....	.....	..... (position).....	.....

\* Documentation of data – transcription from book-accounting, etc, should be available if requested

\*\* If end grant of project is paid for during 2006 should unused grants be paid back to SNS

\*\*\* **Important!** An estimation of approximate amount is sufficient (costs for own working-time should be included)