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Nordic Forest Research Cooperation Committee

**Network no: N2012-06**  
**Joint activity with N2012-07**

Send the report to SNS-secretary Katrine Hahn Kristensen  
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## REPORT NETWORK ACTIVITY (meeting, conference etc.)

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 3 pages.** Supplementary information can be attached.

1. Aktivitetsens titel	Analys av naturlig störningsdynamik i skogsekosystem förvaltning
2. Activity title	Natural Disturbance Dynamics Analysis for Ecosystem Based Management
3. Coordinator /contact person (name, address, telephone, telefax. e- mail)	Kalev Jõgiste, Professor Institute of Forestry and Rural Engineering, Estonian University of Life Sciences, Kreutzwaldi 5, 51014 Tartu, ESTONIA Phone: +37 27 313 133; +37 250 56619; Fax: +37 27 313 153; e-mail: kalev.jogiste@emu.ee
4. Duration	The activity started 01/01 2012 and ended 31/12 2012
5. Cost	SNS-grant: 5000 EUR                      Total activity cost (estimate):

<p>6. Description of activity (incl. objectives, results, conclusions)</p>	<p>The network <i>Natural Disturbance Dynamics Analysis for Ecosystem Based Management</i> started its activity in 2002. The network has been active during 11 years bringing together researchers from different countries from Northern Europe, Baltics and other countries worldwide. There has been a meeting or biggers event each year since 2002: the history can be observed at: <a href="http://ecosyst.emu.ee/?page_id=ava">http://ecosyst.emu.ee/?page_id=ava</a></p> <p>Network activity is focused on forest ecosystem disturbance research. We are aiming at new knowledge in the fird of natural disturbance regimes and forest ecosystem processes. An ecosystem understanding integrates physical and chemical processes with an understanding of the adaptations of individual organisms. One of the main goals is the scientifically based and environmentally friendly forest management. These concerns of ecosystem resilience are particularly relevant in the context of global climate change. A common understanding of the responses of forests to disturbance process will be generated through a focused workshops.</p> <p>Starting in 2012 the joint activity with PRIFOR network is planned: two workshops were planned. The workshop organised in Estonia was an effort to bring together members of three different research groups. FURN network is a group of «Forest Ungulate Resrarch Neywork». PRIFOR resarch group is involved in the analysis of primeval forests: the structure and dynamics in temperate and boreal vegetation zone is a contradictory issue because of lack of reference areas. Forest Disturbance group has focused its activity in research of natural and managed forest ecosystem dynamics. The worshop in Latvia was joint meeting of PRIFOR and Forest Disturbance group.</p>
<p>7. Evt. publication/ communication</p>	<p>In 2011 we organised the publishing of special feature in Journal of Forest Research (Springer, Japanese Forestry Society). Ahto Kangur, Toshiya Yoshida, Yasuhiro Kubota and Marek Metslaid were serving as quest editors.</p> <p>For 2012 event we have applied to collaborate to create special feature of journal «Boreal Environment Research». 10 manuscripts were submitted. The review and evaluation is in the progress at the moment.</p>

<p>8. Activity summary (about 1/3 page) for possible use in the News &amp; Views section of Scandinavian Journal of Forest Research</p>	<p>Big herbivores are crucial factor creating novel disturbance patterns in forest ecosystems. However, the role of ungulates and other big mammals stays unclear when modelling shifts of biomes and global change. The work groups mentioned earlier have ongoing research in this field and joint meeting was carried out. The researchers of three different networks (FURN, PRIFOR, Forest Disturbances) met in Estonia (Järvselja) at the workshop <b>Impact of ungulates and other mammalian herbivores on forest ecosystems, October 8 – 12, 2012</b>. Totally 33 participants from 10 different countries (Estonia, Japan, France, Latvia, UK, The Netherlands, Denmark, Finland, Lithuania, USA) attended the meeting. 19 oral presentations were held during the meeting. 10 Posters were excellent support for the meeting. Wide array of topics was included. The role of animals is not sufficiently covered in forest disturbance ecology. The conference was organised to fill this gap in the international forest ecology research activity. It is worthy to note that great number of postgraduates was involved from different countries. Thesis defences have been planned by members of the network in different countries. The discussion on further activities was focused on the next conference and publication procedure.</p> <p>Joint meeting of PRIFOR and Natural Disturbance Dynamics Analysis for Ecosystem Based Management network was organized in Latvia: The Mosaic Forest Landscape November 26 – 29, 2012. 26 persons participated at the meeting representing 8 different countries participated. A joint paper from the meeting is in progress</p>
<p>9. Date and signature</p>	<p>Date: 14.03.2013</p> <p>Signature of project leader/coordinator:</p>  <p>KALEV JÕGISTE</p>