

Natural Disturbance Dynamics Analysis for Ecosystem Based Management (FORDISMAN)

The meeting in Narva (October 27-29, 2017) brought together the specialists on forest disturbances. Meeting focussed on the ecosystem legacies and the information and material which is transferred with those ecosystem components. Ecosystem memory constituents can be detected and the real impact of those factors verified. Methodological aspects of research and experiments was main topic of the meeting.



Photo: Poruni Primeval Forest / Photo Kalev Jõgiste

Ecosystem Legacies

The profound discussion on the concept of ecosystem legacies was developed. The ecosystem memory aspects were discussed and main definitions suggested for legacy classes.

Ecosystem services and modelling

The ecosystem services are regarded in several categories: particularly the carbon sink questions were analysed. Presentation (poster) about eddy covariance measurements caused lively discussion. Dr Rupert Seidl addressed the ecosystem services as whole array of factors and trotted out the vulnerability of cultural services.



Photo: Poster session of the meeting at Narva College of University of Tartu / Photo Kalev Jõgiste

Pollen analysis evidences on land use changes

The postglacial development of forest ecosystems has been affected by humans to a great extent. The early agricultural operations were represented by shifting crop cultivation. Forests today hark back to traditional livelihood of our ancestors. Open landscapes have been present for several millennia and imprint of disturbances is observable in all forests around Baltic Sea.

Poruni Primeval Forest at the Narva River

The excursion site was chosen to demonstrate natural conditions of hemiboreal forest. The Poruni Primeval Forest is a good example of hemiboreal ecosystem at moist site (soil). Main tree stand is going to shifting mosaic phase of development. However, human influence is visible also in Poruni. Particularly the wood harvest of selective thinning has been practiced. On the other hand the agricultural activity has only minor effect on the ecosystems which creates forest matrix of weak human influence.

History of Narva

The guided tour at the Narva Fortress was organized for participants. City of Narva has been important link between different cultures. As a border town of European culture Narva witnesses complex relations between empires.

Network planning

FORDISMAN network activities are planned for 2017. The support of FORDISMAN colleagues to M.Sc course (NORDPLUS) in Estonian proved to be efficient way of collaboration. For 2017 the meeting in Latvia is planned (Aris Jansons as an organizer). Also a course for Ph.D students on fire history was discussed. The H2020 project of TWINNING (which was submitted in 2015) needs updating and new submission.



Photo: Coffee break of the meeting at Narva College of University of Tartu / Photo Kalev Jõgiste

Publications

The review was submitted to ESA journal Ecosphere (published February 21 2017). The discussion with Silva Fennica about special issue continues. The review on land use change and its practical implications continues, expected submission spring 2017.



Photo: Oral session of the meeting at Narva College of University of Tartu / Photo Kalev Jõgiste

SNS Research Briefs

Kalev Jõgiste, Estonian University of Life Sciences
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