



European Forest Genetic Resources Programme

Jarkko Koskela
EUFORGEN Coordinator



EUFORGEN

- Promotes conservation and sustainable use of forest genetic resources in Europe
- Established in October 1994 to support implementation of resolutions made by the FOREST EUROPE process (Ministerial Conference on the Protection of Forests in Europe, MCPFE)
 - Resolution S2: Conservation of forest genetic resources,
 Strasbourg Conference, 1990
 - Resolution V4: Conserving and enhancing forest biological diversity in Europe, Vienna, 2003
 - Warsaw Declaration, 2007



EUFORGEN

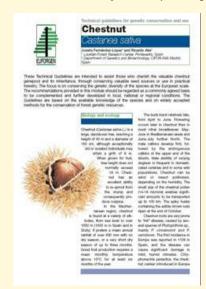
- Member countries (26) (Oct 2010)
- National Coordinators → Steering Committee
- Secretariat (Bioversity International)
- Advisory Committee (Bioversity, FAO)
- Funded by the member countries
- EUFORGEN Networks until Dec 2009 (participated by 101 experts, scientists and managers)
 - Forest Management Network
 - Conifers Network
 - Scattered Broadleaves Network
 - Stand-forming Broadleaves Network

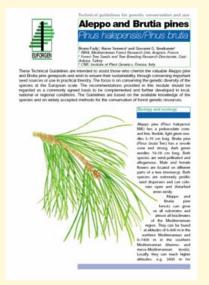


Technical Guidelines

- Sycamore (*Acer pseudoplatanus*)
- Field map (*A. campestre*)
- Black alder (*Alnus glutinosa*)
- Chestnut (Castanea sativa)
- Common ash (Fraxinus excelsior)
- Oriental sweet gum (*Liquidambar orientalis*)
- Wild apple and pear (Malus sylvestris, Pyrus pyraster)
- Black poplar (*Populus nigra*)
- Wild cherry (*Prunus avium*)
- European white oaks (Quercus petraea, Q. robur)
- Service tree (Sorbus domestica)
- Wild service tree (S. torminalis)
- Lime (*Tilia cordata*)
- White elm (*Ulmus laevis*)

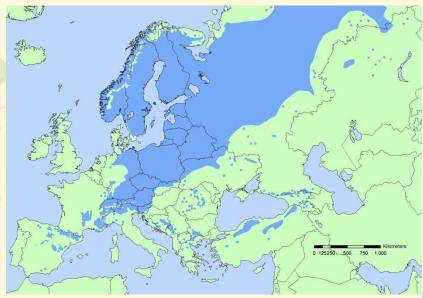
- Silver fir (*Abies alba*)
- Norway spruce (Picea abies)
- Swiss stone pine (*Pinus cembra*)
- Aleppo and Brutia pines (Pinus halepensis / P. brutia)
- Black pine (P. nigra)
- Maritime pine (*Pinus pinaster*)
- Italian stone pine (*Pinus pinea*)
- Scots pine (P. sylvestris)







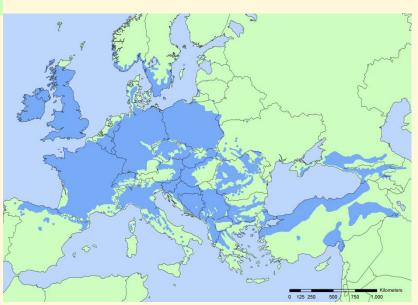
Distribution maps



Scots pine (Pinus sylvestris)

www.euforgen.org

Sessile oak (Quercus petraea)





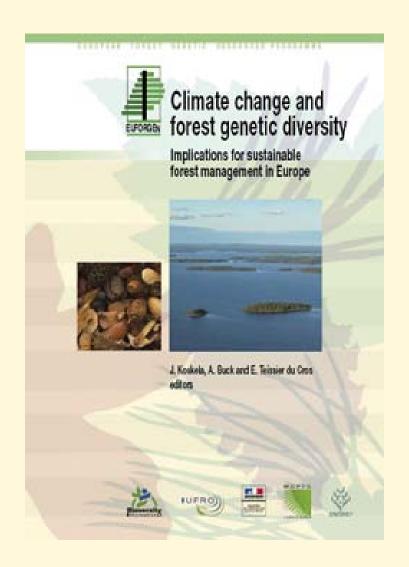
EUFORGEN activities

- Development of gene conservation strategies for forest trees
 - Impacts of climate change on forest management and gene conservation
- Exchange of information (e.g. policies and practices related to gene conservation and forest management)
- Promotion of practical gene conservation at national level
- Identification of research needs
- Development of research projects and another collaborative actions
- Dissemination platform



Climate change and FGR

- Bioversity-IUFRO workshop, Paris, France, 15-16 March 2006
- Part of the MCPFE Work
 Programme to implement
 Vienna Resolution 5
 (Climate change and sustainable forest management in Europe)
- 78 participants from 25 countries





Phase IV (2010-2014)

- New phase endorsed by the 6th meeting of the EUFORGEN Steering Committee, Thessaloniki, Greece, 9-12 June 2009
- Total budget: USD 2.02 million
- Objectives:
 - Promote appropriate use of forest genetic resources as part of sustainable forest management to facilitate adaptation of forests and forest management to climate change
 - Develop and promote pan-European gene conservation strategies and improve guidelines for management of gene conservation units and protected areas
 - 3. Collate, maintain and disseminate reliable information on forest genetic resources in Europe



EUFORGEN Work Plan 2010-2012

- Three working groups (max 10 experts):
 - Assessment of gene conservation status of forest trees in Europe and development of pan-European gene conservation strategie;
 - Development of genetic monitoring methods for gene conservation units of forest trees
 - Development of guidelines for use and transfer of forest reproductive material (FRM) in the context of climate change
- Workshop on FGR conservation in Sep 2012
- 8th Steering Committee meeting in Nov 2012



Collection of FGR data

- Inputs to the MCPFE process on Indicator 4.6 of the pan-European C&I for sustainable forest management:
 - area managed for conservation and utilisation of forest tree genetic resources (in situ and ex situ gene conservation)
 - area managed for seed production
- Inputs to the development of the FAO State of the World's Forest Genetic Resources (to be released in 2013)
- Maintenance and further development of the EUFGIS Portal



Wrap-up of Phase III activities

- Cross-Network publication on FGR
 - Policies and practices related to gene conservation and forest management
 - Tools to promote the use of high quality forest reproductive material in Europe
 - Genetic consequences of seed harvesting in conifers
 - Use of genetic resources of scattered broadleaves in restoration projects in Europe
 - Genetic monitoring of gene conservation units
 - Case study on the use of provenances
 - Case study on genetic consequences of silvicultural practices on beech



Wrap-up of Phase III activities

- Forest Management Network
 - Options and issues regarding the use of forest reproductive material and climate change (4-page leaflet)
 - Genetic aspects of forest management (regeneration methods, silvicultural methods): brief overview publication for policy-makers and managers
- Species-Networks
 - Technical Guidelines
 - Translation of the TGs (Italy, Slovenia, Spain)



Other EUFORGEN activities

- Inputs to the Forest Europe process (MCPFE)
 - Preparations for the next Ministerial Conference (Oslo, June 2011)
 - Expert Level Meeting, Oslo, 23-24 March 2010
 - 3rd meeting of the new WG preparing options for a LBI, Rome, 31 Sep-1 Oct 2010
 - Preparatory meeting for the Oslo Conference, Rome, 4-5
 Oct 2010
 - Expert Level Meeting, Geneva, 14-15 Dec 2010
 - Development of State of Europe's Forests 2011
 - 2nd meeting of the UNECE/FAO Team of Specialists, Ispra, Italy, 26-28 Jan 2010
 - 3rd meeting of the UNECE/FAO Team of Specialists, Geneva, Switzerland, 16-17 Dec 2010



Other EUFORGEN activities

- Global issues and public awareness
 - Inputs to the NordGen seminar on ABS and BFW Forest Heritage event, Vienna, Sep 2010
 - Daily news stories and interviews, 13-15 Sep 2010
- Collaboration with the European Union
 - Round-table meeting on FGR, Brussels, 8 Feb 2010
 - AGRI GEN RES Committee meeting, 2 Dec 2010, EUFGIS results



www.euforgen.org

