



TOURS 2012

INTERNATIONAL CONFERENCE

Tackling climate change:
the contribution of forest scientific knowledge

21 – 24 May 2012, Tours (France)

DETAILED PROGRAMME



Tours 2012 – Draft Programme *(update March 20, 2012)*

Hours	Monday 21 May	Tuesday 22 May	Wednesday 23 May	Thursday 24 May
8:00 - 9:00				Field trips (2 options)
9:00 - 10:00		Scientific Parallel Sessions 2	Opening Plenary Session Forum for Stakeholders and Scientists	
10:00 - 11:00		<i>Coffee break</i>	<i>Coffee break</i>	
11:00 - 12:00		Scientific Parallel Sessions 3	Plenary Panel Sessions Forum for Stakeholders and Scientists	
12:00 - 13:00	Welcome / Registration			
13:00 - 14:00	<i>Buffet Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	
14:00 - 15:00	Scientific Conference Opening Session	Scientific Parallel Sessions 4	Plenary Panel Sessions Forum for Stakeholders and Scientists	
15:00 - 16:00	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	
16:00 - 17:00	Scientific Parallel Sessions 1	Scientific Parallel Sessions 5	Closing session Synthesis and outcomes	
17:00 - 18:00				
18:00 - 19:00	Poster Session (with refreshment)		Satellite Meeting ECHOES Management committee COST evaluation panel	
19:00 - 20:00				
20:00 - 21:00		Official Dinner		
21:00 - 22:00				
22:00 - 23:00				

Monday 21 May

14:00 – 15:45	<p>Opening session Moderator</p> <ul style="list-style-type: none">• Presentation of their projects and strategies by conference partners (5 minutes each):<ul style="list-style-type: none">○ COST Office○ ECHOES○ MOTIVE○ BACCARA○ TRANZFOR○ REINFFORCE○ FOREADAPT○ IUFRO• Key addresses:<ul style="list-style-type: none">○ Climate change at the European scale: sound knowledge and new insights○ Climate change and biome shifts○ Adaptation○ New perspectives on the role of European forests in carbon sequestration: an overview. Gert-Jan Nabuurs
15:45 – 16:15	COFFEE BREAK

16:15- 18:00. Scientific Parallel Sessions 1

<p>IMPACTS</p> <ul style="list-style-type: none"> • 'Hot-spots' of climate change impacts in European forests – results of a questionnaire. Peter Spathelf - Eberswalde University for sustainable development - Germany • Impact of climate on trees: identification of proxies in trees for measuring climatic stress. Armand Tene - UCD, Forest Research UK • Integrating parameter uncertainty of process-based forest models in assessments of global change impacts on forest productivity. Christopher Reyer - Potsdam Institute for Climate Impact Research • Using probabilistic climate change projections and an ecological site classification to assess the future risk of climate impacts on tree species in Britain. Michal Petr - University of Twente • Modelling the impact of atmospheric nitrogen deposition on french forests in the context of climate change. Carole Obeidy - CNRS • Tree morphology as a mediator of climate change impacts on pedunculate oak trees (<i>Quercus robur L.</i>) in old even-aged stands of the "Spačva" alluvial plain forest, Croatia. Stjepan Dekanic - Croatian Forest Research Institute • New evidences of the impacts of global change at the southern edge populations of silver fir (<i>Abies alba Mill.</i>) distribution range. Laura Hernández - CIFOR-INIA 	<p>RESILIENCE 1</p> <ul style="list-style-type: none"> • Tree regeneration vulnerability to climate change: relative contributions of direct climate effects, plant interactions, herbivores & pathogens in mountain forests. Georges Kunstler - Cemagref - France • Climate change and forest genetic resources: scientific challenges, risks and opportunities. Judy Loo • Adaptive silviculture regarding climate change: the geneticist's view. François Lefèvre • Adaptability of beech (<i>Fagus sylvatica L.</i>) to climate change - Investigating the genetic variation of candidate genes along an environmental gradient. Sarah Seifert • Drought-adaptive potential of central and marginal provenances of European beech. Andreas Bolte • What determines adaptability? A case study with silver birch. Boy Possen 	<p>RISKS and UNCERTAINTIES</p> <ul style="list-style-type: none"> • Economics of Species Change under Risk of Climate Change: A Sensitivity and (Quasi-) Option Value Analysis. Marielle Brunette -INRA • Addressing climate change scenarios in eucalypt forest management. A landscape level optimization study case. Jordi, Garcia-Gonzalo • Coping with possible wildfire regime shifts under a changing climate: Need for local management in western Canada. Akira S Mori • Ecosystem Management in the Face of Uncertainty: Organisational Problem-Solving Performances of German State Forest Administrations Concerning Climate Change Adaptation Measures. Fenn Faber • Dealing with uncertainty in forest management under climate change. Emina Krcmar • Adapting to incremental and threshold climate change impacts to forests. Jody Bruce
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Tuesday 22 May

8:30 – 10:15. Scientific Parallel Sessions 2

PRODUCTIVITY, DISTRIBUTION 1

- Simulated forest productivity and biomass changes under global change. **Christopher Reyer** - Potsdam Institute for Climate Impact Research
- How will climate change affect the relationship between tree diversity and productivity in European temperate forests? **Xavier Morin** - ETH
- Forest productivity shifts under climate change in Europe -: a model-based analysis. **Petra Lasch** - Potsdam Institute for Climate Impact Research
- Long-term growth changes in a temperate lowland region during the last century: a retrospective analysis of tree rings comparing linear and non-linear mixed modelling approaches. **Wim Aertsen** - K.U.Leuven – Belgium
- Did South Western European tree species shift upward during the last decade? **Morgane Urli** - UMR Biogeco - INRA
- Spatiotemporal prediction of site-productivity in Baden-Württemberg. **Arne Nothdurft** - Forest Research Institute Baden-Württemberg

RESILIENCE 2

- Adaptability of silver birch (*Betula pendula* Roth) to elevated temperature and changing water regimen. **Mikko J. Anttonen** - Finnish Forest Research Institute
- Structural acclimation and photosynthesis of tree canopy in changed climate. **Mikko Peltoniemi**
- Mechanisms of local adaptation to climatic gradients: lessons from a Physio-Demo-Genetics Model. **Sylvie Oddou-Muratorio** - INRA - France
- Can we rely on nature's spontaneity in the light of climate change predictions? **Csaba Mátyás**
- Trends in the natural regeneration patterns of beech and silver fir in the Eastern Carpathians (Romania) under the climate change and Forest management. **Ion Barbu** - Forest Research Institute - Romania

ECOSYSTEM SERVICES

- Overestimation in the sensitivity of soil respiration to climate change throughout the mid-latitudes. **Callum Berridge**
- Fungal communities of Scots pine needles along a latitude gradient in Sweden. **Hanna Millberg** - Swedish University of Agricultural Sciences
- Assessment of cork production in new *Quercus* suber plantations under future climate. **Joana, Amaral Paulo** - Centro de Estudos Florestais; Instituto Superior de Agronomia - Portugal
- Are forest fungi affected by climate change? Diversity and structure of ectomycorrhizal fungal communities along altitudinal gradients in Europe. **Aurore Coince** - INRA Nancy, France
- Building a framework for managing forest ecosystem services in New Zealand and the United Kingdom. **Richard Yao**
- Effect of altitude on forest herbivores and their parasitoids: a meta-analysis. **Marc Kenis** - CABI Europe-Switzerland

10:15 – 10:45

COFFEE BREAK

10:45 – 12:30. Scientific Parallel Sessions 3

PRODUCTIVITY, DISTRIBUTION 2

- Impact of climate on growth and mortality of trees in the Black Forest. **Heinrich Spiecker** - Institute for Forest Growth, Germany
- The impact of climate change on the health condition and yield of sessile oak along its xeric limit. **Imre Berki** - University of West Hungary, Faculty of Forestry, Institute of Environmental and Earth Sciences - Hungary
- How will climate change affect tree distribution and management? Modelling the response of sugar maple in Quebec. **Catherine Périé** - Ministère des ressources naturelles et de la faune - Canada
- Exploring Eucalyptus fastigata growth with 3PG projections in New Zealand under different climate scenarios. **Dean Meason** - SCION - New Zealand
- Simulation of forest growth response to climatic change in Norway using a forest growth process model. **Even Bergseng** - Department of Ecology and Natural Resource Management, Norwegian University of Life Sciences
- Vulnerability of key French forest tree species to climate change, possibility of substitution of species in forestry. **Christel Anger** - INRA - France

MANAGEMENT FOR ADAPTATION 1

- The role of forestry in national climate change adaptation policy: An explorative assessment of cases from Sweden, Germany, France and Italy. **Carina H. Keskitalo**
- REsource INFrastructures for monitoring, adapting and protecting European Atlantic FOREsts under Changing climate. **Christophe Orazio**
- Designing Adaptive and Sustainable Forests in Response to Climate Change: A case study in Northern Wales. **Duncan Ray**
- Deployment of alternative species in conifer plantation forests in New Zealand and the United Kingdom as a means of adaptation to climate change a comparative case study and risk analysis. **Bill Mason**
- Adaptive management of mountain forests. **Robert Jandl**
- Optimizing the management of even-aged beech stands under climate change uncertainty. **Antoni Trasobares**

MITIGATION 1

- Kyoto forests in middle Zavolgie of Russia: monitoring, validation and certification. **Eldar Kurbanov**
- Wood preservation (carbon sequestration) or wood burning (fossil-fuel substitution), which is best for mitigating climate change? Philippe Leturcq
- Corporations' perspectives on forest carbon offset projects in China and Korea. **Yeo-Chang YOUN**
- Dividing GHG emissions by 4 in the French housing sector: contribution of land use efficiency in forestry and agriculture. **Arthur Riedacker and Stefano Migliore**
- Mitigation of climate change thru boreal forest management. **Kenneth Sahlén**
- Assessing and improving the overall carbon balance of the forest-wood sector: methods and approaches, uncertainties and consequences. **Sebastian Rueter**

12:30 – 14:00

LUNCH

14:00 – 15:45. Scientific Parallel Sessions 4

DISTURBANCES 1

- Drivers and impacts of intensified disturbance regimes in European forests. **Rupert Seidl** - University of Natural Resources and Life Sciences (BOKU)
- Forest insects and climate change: Can management mitigate the risks? **Christer Björkman** - Swedish University of Agricultural Sciences
- Observed and expected impact of climate change on a defoliator insect species, the pine processionary moth, in France and Europe. **Christelle Robinet** - INRA
- Climate change effects on the interaction between forest insect defoliators and fire in the boreal zone. **Jean-Noel Candau**
- Disturbance-driven northwards spread of European beech in Southern Sweden. **Andreas Bolte** Institute of Forest Ecology and Forest
- Likelihood of improving climatic conditions for the pine-tree lappet moth (*Dendrolimus pini*) in Scotland: an examination of the probabilistic climate change projections for the UK. **Duncan Ray** - Forest Research

MANAGEMENT FOR ADAPTATION 2

- Adaptive forest fire management in the Mediterranean Europe. **Yannis Raftoyannis**
- Optimizing the management responses to the climate change in the boreal conditions methods and findings. **Seppo Kellomäki**
- Adapting forests to climate change in the French Mediterranean Mountains: how far forest management can facilitate species succession, consider growth potential modification, and ensure the continuity of some ecosystem services. **Philippe Dreyfus**
- Exploring adaptive management options under climate change in a biosphere reserve. **Stefan Schörghuber**
- Wind damage probability-reducing forest management and its effects on recreation- and life-style values, and yield. **Mikael Andersson**
- Close-to-nature silviculture as adaptation strategy to climate change. **Peter Brang**

MITIGATION 2

- Fuelwood, timber and climate change: Insights from forest sector modeling. **Philippe Delacote**
- Sequestering carbon in forest or use biomass for substitution: a sensitivity analysis of the importance of wood product markets assumptions. **Hanne K. Sjølie**
- Sequester or substitute consequences of the increased production of bioenergy in Finland. **Maarit Kallio**
- Tool for Simulation of Forest Mitigation Potentials. **Volker Mues**
- Forest biomass production and their potential use to mitigate climate change. **Bishnu Chandra Poudel**
- What can the forest do for the climate - a Scandinavian perspective? **Johan Bergh**

15:45 – 16:15

COFFEE BREAK

16:15 – 18:00. Scientific Parallel Sessions 5

<p>DISTURBANCES 2</p> <ul style="list-style-type: none"> • Uncertainties of forest risks assessment under climate change. Oleg Panferov - Göttingen University / Bingen University of Applied Sciences • Overview of European forest pest and pathogen population responses to climate change. Andrea Battisti – University of Padova, Italy • Responses of forest pests to climate change: tree resistance and herbivore damage along European elevational gradients. Ewelina Czwieczek, Poland • Historical range of variability in temperate mountain spruce forests of Central Europe. Miroslav Svoboda - Czech University of Life Sciences • Drought explains outbreak dynamics and altitudinal range expansion of a destructive bark beetle. Lorenzo Marini, Italy • The WINDA-GALES wind damage probability planning tool. Kristina Blennow - Swedish University of Agricultural Sciences 	<p>MANAGEMENT FOR ADAPTATION 3</p> <ul style="list-style-type: none"> • Stand composition and stocking management in Mediterranean Stone pine (<i>P. pinea</i> L.) forests as adaptive measures to climate change. Javier de Dios • Vulnerability assessment of ecosystem services and adaptive management options in Austrian mountain forests under climate change. Michael Maroschek • Territorial foresight and regional strategies for forest management in the face of climate change - The Landes de Gascogne 2050: case study. Olivier Mora • Climate change impact and adaptation in the managed Canadian boreal forest: a review of current knowledge. Pierre Bernier • Genetic diversity: a potential climate change adaptation tool! André Rainville • Tree breeding as a tool to minimize possible adverse effects of climate changes on forest trees. Aris Jansons • Preparedness to climate change in European forestry based on COST ECHOES database on adaptive measures. Marcus Lindner 	<p>SOCIO ECONOMIC ASPECTS & KNOWLEDGE MANAGEMENT (15 min / speech !)</p> <ul style="list-style-type: none"> • A first national assessment of climate change risks for forestry in the UK. Andy Moffat • Assessing ExpertsOpinion on Challenges and Opportunities of Tackling Deforestation in the tropics: a Q- Method Application. Maria Nijnik • Adaptation, mitigation and ecosystem services - Challenges to sustainable forest management and research needs. Jean-François Dhôte • Forest owner motivations and attitudes towards land-use change for bio-energy production in Europe. Kristina Blennow • A web-based tool for participatory vulnerability assessment of forest ecosystem services. Werner Rammer • 1) No manual for the future: helping private woodland owners to adapt to climate change or Innovation and knowledge networks in adapting silviculture for climate change or 2) Innovation and knowledge networks in adapting silviculture for climate change. Anna Lawrence • Modelling for Knowledge Update in Adaptive Forest Management. Rasoul Yousefpour • Forest change - Generating, Integrating and Delivering Climate Change Knowledge to Support Forest Sector Adaptation in Canada. Catherine Ste-Marie
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19:00 – 23:00 OFFICIAL DINNER

Wednesday 23 May

8:30 – 10:00	Opening Plenary Session - Forum for stakeholders and scientists <ul style="list-style-type: none">• Climate change, Forestry and EU strategy• Science decision interface in Europe: Think forest• Forest Europe and Climate change• Timber Committee and Climate change•
10 :00 – 10 :30	COFFEE BREAK
10:30 – 12:30	Plenary Panel Sessions - Forum for Stakeholders and Scientists <ol style="list-style-type: none">1. Understanding ecological, economic and social climate change impacts2. Forest management under climate change (adaptation and mitigation)
12:30 – 14:00	LUNCH
14:00 – 16:00	Plenary Panel Sessions - Forum for Stakeholders and Scientists <ol style="list-style-type: none">3. Public policies and governance facing climate change4. Forest monitoring designed for climate change
16:00 – 16:30	COFFEE BREAK
16:30 – 18:00	Closing session <ul style="list-style-type: none">• Echoes recommendations for forestry facing climate change in Europe• New Zealand Responses to Climate Change - the Forestry Story. Chris Goulding• Recommendations for forestry facing climate change in other parts of the World• Synthesis and outcomes• Closing address.
18:00 – 20:00	Satellite meeting: ECHOES Management Committee and COST evaluation panel

Thursday 24 May: Field trips