

Plant Ecology & Diversity

Special Issue: Forests, instruments and ideas – a tribute
to John Grace's career

Guest Editors: Maurizio Mencuccini, Patrick Meir,
Mat Williams, Federico Magnani



Taylor & Francis
Taylor & Francis Group



Plant Ecology & Diversity

Volume 6 Number 1 March 2013

Special Issue: Forests, instruments and ideas – a tribute to John Grace's career
Guest Editors: Maurizio Mencuccini, Patrick Meir, Mat Williams, Federico Magnani

Contents

EDITORIAL

Maurizio Mencuccini

1

'Forests, instruments and ideas' – a tribute to John Grace's career

Patrick Meir, Maurizio Mencuccini, Mat Williams and Federico Magnani

3

ARTICLES

The stability of the *Pinus sylvestris* treeline in the Cairngorms, Scotland over the last millennium

Jennifer Nagy (née McConnell), Laszlo Nagy, Colin J. Legg and John Grace

7

Reciprocal root-shoot cooling and soil fertilization effects on the seasonal growth of two treeline conifer species

Günter Hoch

21

Spectral characteristics of pine needles at the limit of tree growth in subarctic Finland

Sigrid Dengel, John Grace, Tuomas Aakala, Pertti Hari, Sarah L. Newberry and

Toshie Mizunuma

31

The regulation of sapwood area, water transport and heartwood formation in Sitka spruce

K. Beauchamp, M. Mencuccini, M. Perks and B. Gardiner

45

Water use of young maritime pine and *Eucalyptus* stands in response to climatic drying in south-western France

Virginie Moreaux, Anthony P. O'Grady, Nicolas Nguyen-The and Denis Loustau

57

Thinning effects on forest productivity: consequences of preserving old forests and mitigating impacts of fire and drought

Beverly E. Law, Tara W. Hudiburg and Sebastiaan Luyssaert

73

Using biomass distributions to determine probability and intensity of tropical forest disturbance

Mathew Williams, Timothy C. Hill and Casey M. Ryan

87

On the delineation of tropical vegetation types with an emphasis on forest/savanna transitions

Mireia Torello-Raventos, Ted R. Feldpausch, Elmar Veenendaal, Franziska Schrodt,

Gustavo Saiz, Tomas F. Domingues, Gloria Djagbletey, Andrew Ford, Jeanette Kemp,

Beatriz S. Marimon, Ben Hur Marimon Junior, Eddie Lenza, James A. Ratter,

Leandro Maracahipes, Denise Sasaki, Bonaventure Sonké, Louis Zapfack,

Hermann Taedoumg, Daniel Villarroel, Michael Schwarz, Carlos A. Quesada,

F. Yoko Ishida, Gabriela B. Nardoto, Kofi Affum-Baffoe, Luzmilla Arroyo,

David M.J.S. Bowman, Halidou Compaore, Kalu Davies, Adama Diallo,

Nikolaos M. Fyllas, Martin Gilpin, Fidèle Hien, Michelle Johnson, Timothy J. Killeen,

Daniel Metcalfe, Heloisa S. Miranda, Mark Steininger, John Thomson, Karle Sykora,

Eric Mougin, Pierre Hiernaux, Michael I. Bird, John Grace, Simon L. Lewis,

Oliver L. Phillips and Jon Lloyd

101

Residence times of woody biomass in tropical forests

David Galbraith, Yadavinder Malhi, Kofi Affum-Baffoe, Andrea D.A. Castanho,

Christopher E. Doughty, Rosie A. Fisher, Simon L. Lewis, Kelvin S.-H. Peh,

Oliver L. Phillips, Carlos A. Quesada, Bonaventure Sonké and Jon Lloyd

139

A novel application of satellite radar data: measuring carbon sequestration and detecting degradation in a community forestry project in Mozambique

Edward T.A. Mitchard, Patrick Meir, Casey M. Ryan, Emily S. Woollen, Mathew Williams,

Lucy E. Goodman, Joey A. Mucavele, Paul Watts, Iain H. Woodhouse and Sassan S. Saatchi

159



Taylor & Francis

Taylor & Francis Group



Plant Ecology & Diversity

Volume 6 Number 2 June 2013

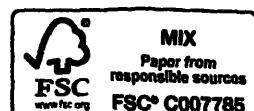
Contents

ARTICLES

Drivers of pollen limitation: macroecological interactions between breeding system, rarity, and diversity <i>Jana C. Vamosi, Janette A. Steets and Tia-Lynn Ashman</i>	171
Pollination biology and floral longevity of <i>Aristolochia chilensis</i> in an arid ecosystem <i>Gisela C. Stotz and Ernesto Gianoli</i>	181
Alpine <i>Codonopsis convolvulacea</i> (Campanulaceae) provides multiple rewards to its main pollinator <i>Xingfu Zhu, Jiqin Yang and Qingjun Li</i>	187
Multi-scale assessment of pollination of <i>Lotus corniculatus</i> (L.) in a peri-urban fringe <i>Vincent Pellissier, Noëlie Maurel and Nathalie Machon</i>	195
Plant-animal interactions in two forest herbs along a tree and herb diversity gradient <i>Elke Vockenhuber, Patrick Kabouw, Teja Tscharntke and Christoph Scherber</i>	205
Hybridisation in <i>Jacobaea</i> – characterisation of hybrids between <i>Jacobaea aquatica</i> and <i>J. vulgaris</i> in Austria <i>Silvia Winter, Remigius Chizzola, Monika Kriechbaum and Matthias Kropf</i>	217
Which processes drive fine root elongation in a natural mountain forest ecosystem? <i>Zhun Mao, Marie-Laure Bonis, Hervé Rey, Laurent Saint-André, Alexia Stokes and Christophe Jourdan</i>	231
Foliar chemistry and standing folivory of early and late-successional species in a Bornean rainforest <i>Josep Peñuelas, Jordi Sardans, Joan Llusia, Jorge Silva, Susan M. Owen, Bernadus Bala-Ola, Alona C. Linatoc, Mohamed N. Dalimin and Ülo Niinemets</i>	245
Shrub patch configuration at the landscape scale is related to diversity of adjacent herbaceous vegetation <i>Virve T. Ravalainen, Kari A. Bråthen, Rolf A. Ims, Nigel G. Yoccoz and Eeva M. Soininen</i>	257
Proximity to successional advanced vegetation patches can make all the difference to plant community assembly <i>Anamaria Roman and Dan Gafta</i>	269
The impacts of biologically induced micro-environments on biodiversity in a dry Mediterranean grassland <i>Mohammad N. Alhamad and Mohammad A. Alrababah</i>	279
Long-term vegetation stability in northern Europe as assessed by changes in species co-occurrences <i>Jutta Kapfer, H. John B. Birks, Vivian A. Felde, Kari Klanderud, Tone Martinessen, Louise C. Ross, Fride H. Schei, Risto Virtanen and John-Arvid Grytnes</i>	289



Taylor & Francis
Taylor & Francis Group



Plant Ecology & Diversity

Volume 6 Numbers 3–4 September–December 2013

Special Issue: Climate Change and Extreme Events in Alpine Ecosystems
Guest Editors: Sonja Wipf, Michael Gottfried and Laszlo Nagy

Contents

EDITORIAL

Climate change and extreme events – their impacts on alpine and arctic ecosystem structure and function

Sonja Wipf, Michael Gottfried and Laszlo Nagy 303

SPECIAL ISSUE RESEARCH ARTICLES

Conifer seedling recruitment across a gradient from forest to alpine tundra: effects of species, provenance, and site

C. Castanha, M.S. Torn, M.J. Germino, B. Weibel and L.M. Kueppers 307

Seed–seedling conflict in conifers as a result of plant–plant interactions at the forest–tundra ecotone

Brittany H. Cranston and Luise Hermanutz 319

Similar tree seedling responses to shrubs and to simulated environmental changes at Pyrenean and subarctic treelines

Oriol Grau, Josep M. Ninot, Johannes H.C. Cornelissen and Terry V. Callaghan 329

Spatial relations and population structure of a dominant tree along a treeline ecotone in the Tropical Andes: interactions at gradient and plant-neighbourhood scales

Luis D. Llambí, Johanna Puentes Aguilar and Carlos García-Núñez 343

Uncoupled changes in tree cover and field layer vegetation at two Pyrenean treeline ecotones over 11 years

Iker Pardo, J. Julio Camarero, Emilia Gutiérrez and María B. García 355

Early season temperature controls cambial activity and total tree ring width at the alpine treeline

Armando Lenz, Günter Hoch and Christian Körner 365

Response of dark respiration to temperature in *Eriophorum vaginatum* from a 30-year-old transplant experiment in Alaska

Martine J. van de Weg, Ned Fetcher and Gus Shaver 377

Rapid photosynthetic recovery of a snow-covered feather moss and *Peltigera* lichen during sub-Arctic midwinter warming

Jarle W. Bjerke, Stef Bokhorst, Terry V. Callaghan, Matthias Zielke and Gareth K. Phoenix 383

How extreme summer weather may limit control of *Festuca paniculata* by mowing in subalpine grasslands

Marie-Lise Benot, Patrick Saccone, Rachel Vicente, Emmanuelne Pautrat, Annette Morvan-Bertrand, Marie-Laure Decau, Karl Grigulis, Marie-Pascale Prud'homme and Sandra Lavorel 393

Vegetation pattern of mountains in West Greenland – a baseline for long-term surveillance of global warming impacts

Birgit Jedrzejek, Birgit Drees, Fred J.A. Daniëls and Norbert Hözel 405

(Continued on inside back cover)



Taylor & Francis
Taylor & Francis Group

