

Communications scientifiques

Scientific communications

Bégin, Y., 2012. Historical archives for hydropower. **International Innovation**, 10 : 18-21.

Savard, M., Bégin, C., Marion, J., Arseneault, D., Bégin, Y., 2012. Evaluating the integrity of C and O isotopes in sub-fossil wood from boreal lakes. **Paleogeography, Paleoclimatology, Paleoecology**, 348-349 (1) : 21-31. DOI: 10.1016/j.palaeo.2012.06.003.

Magnan, G., Lavoie, M., Payette, S., 2012. Impact of fire on long-term vegetation dynamics of ombrotrophic peatlands in northwestern Québec, Canada. **Quaternary Research**, 77 (1) : 110-121. DOI: 10.1016/j.yqres.2011.10.006.

Payette, S., Delwaide, A., Schaffhauser, A., Magnan, G., 2012. Calculating long-term fire frequency at the stand scale from charcoal data. **Ecosphere**, 3 (7) : Article 59. DOI: org/10.1890/ES12-00026.1.

Veilleux-Nolin, M., Payette, S., 2012. Influence of recent fire season and severity on black spruce regeneration in spruce-moss forests of Quebec, Canada. **Canadian Journal of Forest Research**, 42 (7) : 1316-1327. DOI: 10.1139/x2012-098.

Boucher, É., Ouarda, T.B.M.J., Bégin, Y., Nicault, A., 2011. Spring flood reconstruction from continuous and discrete tree ring series. **Water Resources Research**, 47 (W07516). DOI: 10.1029/2010WR010131.

Boulangier, Y., Sirois, L., Hébert, C., 2011. Fire severity as a determinant factor of the decomposition rate of fire-killed black spruce in the northern boreal forest. **Canadian Journal of Forest Research**, 41 (2) : 370-379. DOI: 10.1139/X10-218.

de Lafontaine, G., Payette, S., 2011. Shifting zonal patterns of the southern boreal forest in eastern Canada associated with changing fire regime during the Holocene. **Quaternary Science Reviews**, 30 : 867-875.

Arseneault, D., 2010. Longues séries dendrochronologiques dans le nord-est de l'Amérique du Nord. Pages 731-748 dans Payette, S., Fillion, L. (Éditeurs). **La dendroécologie - Principes, méthodes et applications**. Presses de l'Université Laval, Québec, Québec, Canada.

Bégin, Y., Sirois, L., Meunier, C., 2010. The effects of hydroelectric flooding on a reservoir's peripheral forests and newly created forested islands. Pages 241-256 dans Stoffel, M., Bollschweiler, M., Butler, D.R, Luckman, B.H. (Éditeurs). **Tree Rings and Natural Hazards: A State-of-Art**. Springer, Dordrecht, Pays-Bas.

Boulanger, Y., Sirois, L., Hébert, C., 2010. Distribution of saproxylic beetles in a recently burnt landscape of the northern boreal forest of Québec. **Forest Ecology and Management**, 260 (7) : 1114-1123.

Bremond, L., Carcaillet, C., Favier, C., Ali, A.A, Paitre, C., Bégin, Y., Bergeron, Y., Richard, P.J.H., 2010. Effects of vegetation type and climatic changes on fire-induced atmospheric carbon emissions: a model based on paleo-data. **International Journal of Wildland Fire**, 19 : 1015-1025. DOI: 10.1071/WF09096.

de Lafontaine, G., Turgeon, J., Payette, S., 2010. Phylogeography of white spruce (*Picea glauca*) in eastern North America reveals contrasting ecological trajectories. **Journal of Biogeography**, 37 : 741-751.

Denneler, B., Bergeron, Y., Bégin, Y., 2010. Flooding effects on tree-ring formation of riparian eastern white-cedar (*Thuja occidentalis* L.), Northwestern Quebec, Canada. **Tree Ring Research**, 66 (1) : 3-17. DOI: 10.3959/2008-11.1.

Boucher, É., Bégin, Y., Arseneault, D., 2009. Hydro-climatic analysis of mechanical breakups reconstructed from tree-rings, Necopastic watershed, northern Québec, Canada. **Journal of Hydrology**, 375 : 373-382.

Boucher, É., Bégin, Y., Arseneault, D., 2009. Impacts of recurring ice jams on channel geometry and geomorphology in a small high-boreal watershed. **Geomorphology**, 108 : 273-281. DOI: 10.1016/j.geomorph.2009.02.014.

Dissanska, M., Bernier, M., Payette, S., 2009. Object-based classification of very high resolution panchromatic images for evaluating recent change in the structure of patterned peatlands. **Canadian Journal of Remote Sensing**, 35 (2) : 189-215.

Tardif, S., St-Hilaire, A., Roy, R., Bernier, M., Payette, S., 2009. Statistical Properties of Hydrographs in Minerotrophic Fens and Small Lakes in Mid-Latitude Québec, Canada. **Canadian Water Resources Journal (Peatlands Special Issue: Improving Hydrological Prediction in Canadian Peatlands)**, 34 (4) : 365-380.

Thibault, S., Payette, S., 2009. Recent Permafrost Degradation in Bogs of the James Bay Area, Northern Quebec, Canada. **Permafrost and Periglacial Processes**, 20 : 383-389. DOI: 10.1002/ppp.660.

Lemay, M., Bégin, Y., 2008. Hydroclimatic analysis of an ice-scouring tree-ring chronology of a High-Boreal lake, Northern Quebec, Canada. **Nordic Hydrology**, 39 : 451-464.

Payette, S., Filion, L., Delwaide, A., 2008. Spatially explicit fire-climate history of the boreal forest-tundra (Eastern Canada) over the last 2000 years. **Philosophical Transactions of the Royal Society B**, 363 : 2301-2316. DOI: 10.1098/rstb.2007.2201.

Arseneault, D., Boucher, É., Bouchon, É., 2007. Asynchronous forest-stream coupling in a fire-prone boreal landscape: insights from woody debris. **Journal of Ecology**, 95 (4) : 789-801.

Bégin, Y., Nicault, A., Bégin, C., Savard, M., Arseneault, D., Berninger, F., Guiot, J., Boreux, J.-J., Perreault, L., 2007. Analyse dendrochronologique des variations passées du régime hydroclimatique au complexe de La Grande Rivière dans le Nord du Québec. **La Houille Blanche, Revue internationale de l'eau**, 6 (décembre) : 70-77. DOI: 10.1051/lhb:2007085.

Boulanger, Y., Sirois, L., 2007. Postfire succession of saproxylic arthropods, with emphasis on Coleoptera, in the north boreal forest of Quebec. **Environmental Entomology**, 36 (1) : 128-141.

Cournoyer, L., Yagouti, A., Bégin, Y., Boulet, G., Vescovi, L., 2007. Analyse spatio-temporelle des températures pour un meilleur suivi du climat dans le Nord du Québec. Rapport au Consortium Ouranos.

Dy, G., Payette, S., 2007. Frost hollows of the boreal forest as extreme environments for black spruce tree growth. **Canadian Journal of Forest Research**, 37 : 492-504.

Jasinski, P., Payette, S., 2007. Holocene occurrence of *Lophodermium piceae*, a black spruce needle endophyte and possible paleoindicator of boreal forest. **Quaternary Research**, 67 : 50-56.

Meunier, C., Sirois, L., Bégin, Y., 2007. Climate and *Picea mariana* seed maturation relationships: a multiscale perspective. **Ecological Monographs**, 77 (3) : 361-376.

Boucher, É., Arseneault, D., Héту, B., 2006. Late Holocene development of a floodplain along a small meandering stream, northern Québec, Canada. **Geomorphology**, 80 (40271) : 267-281.

Boulanger, Y., Sirois, L., 2006. Postfire dynamics of black spruce coarse woody debris in northern boreal forest of Québec. **Canadian Journal of Forest Research**, 36 : 1770-1780.

Parisien, M.-A., Sirois, L., Parent, S., 2005. Landscape-level variability in the age underestimation of understory black spruce in the northern boreal forest of Quebec. **Canadian Journal of Forest Research**, 35 : 633-642.

Tremblay, J., Bégin, Y., 2005. The effects of snow packing on tree growth forms on an island in a recently created reservoir in northern Québec, Canada. **Écoscience**, 12 (4) : 330-339.

Arseneault, D., Sirois, L., 2004. The millennial dynamics of a boreal forest stand from buried trees. **Journal of Ecology**, 92 : 490-504.

- Bouchon, É., Arseneault, D., 2004. Fire disturbance during climate change: failure of postfire forest recovery on a boreal floodplain. **Canadian Journal of Forest Research**, 34 : 2294-2305.
- Le Goff, H., Sirois, L., 2004. Black spruce and jack pine dynamics simulated under varying fire cycles in northern boreal forest of Quebec, Canada. **Canadian Journal of Forest Research**, 34 (12) : 2399-2409.
- Bégin, Y., 2003. Analyse dendrochronologique des effets climatiques d'un vaste réservoir hydroélectrique au Québec nordique (Canada). **Revue de géographie alpine, numéro spécial : Hydrosystèmes lacustres et changements environnementaux**, 91 (1) : 67-80.
- Deslauriers, A., Morin, H., Bégin, Y., 2003. Cellular phenology of annual ring formation of *Abies balsamea* in the Quebec boreal forest (Canada). **Canadian Journal of Forest Research**, 33 (2) : 190-200.
- Parisien, M.-A., Sirois, L., 2003. Distribution and dynamics of tree species across a fire frequency gradient in the James Bay region of Quebec. **Canadian Journal of Forest Research**, 33 (2) : 243-256.
- Bégin, Y., Marguerie, D., 2002. Characterization of tree macroremains production in a recently burned conifer forest in northern Québec, Canada. **Plant Ecology**, 159 (2) : 143-152.
- Arseneault, D., 2001. Impact of fire behavior on postfire ecosystem development in a homogeneous boreal landscape. **Canadian Journal of Forest Research**, 31 : 1367-1374.
- Arseneault, D., Filion, L., 2001. Les mégafossiles ligneux. Pages 327-341 dans Payette, S., Rochefort, L. (Éditeurs). **Écologie des tourbières du Québec-Labrador**. Les Presses de l'Université Laval, Québec, Québec, Canada.
- Lavoie, C., Arseneault, D., 2001. Late Holocene climate of the James Bay area (Québec, Canada) reconstructed using fossil beetles. **Arctic, Antarctic, and Alpine Research**, 33 (1) : 13-18.
- Sirois, L., 2000. Spatiotemporal variation in black spruce cone and seed crops along a boreal forest - tree line transect. **Canadian Journal of Forest Research**, 30 : 900-909.
- Sirois, L., Bégin, Y., Parent, J., 1999. Female gametophyte and embryo development of black spruce along a shore-hinterland climatic gradient of a recently created reservoir, northern Québec. **Canadian Journal of Botany**, 77 (1) : 61-69.
- Lavoie, L., Sirois, L., 1998. Vegetation changes caused by recent fires in the northern boreal forest of eastern Canada. **Journal of Vegetation Science**, 9 : 483-492.
- Sirois, L., 1997. Distribution and dynamics of balsam fir (*Abies balsamea* [L.] Mill.) at its northern limit in the James Bay area. **Écoscience**, 4 (3) : 340-352.

Sirois, L., 1995. Initial phase of postfire forest regeneration in two lichen woodlands of northern Québec. **Écoscience**, 2 (2) : 177-183.



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