Marie-JosÃ©e Fortin

List of Publications by Year
in descending order

155 papers	10,822 citations	41344 49 h-index	38395 95 g-index
163 all docs	163 docs citations	163 times ranked	14774 citing authors

#	Article	IF	Citations
1	Multi‐trophic metacommunity interactions mediate asynchrony and stability in fluctuating environments. Ecological Monographs, 2022, 92, e1484.	5.4	12
2	Ecological network complexity scales with area. Nature Ecology and Evolution, 2022, 6, 307-314.	7.8	35
3	Conceptualizing ecosystem services using social–ecological networks. Trends in Ecology and Evolution, 2022, 37, 211-222.	8.7	32
4	Food web reconstruction through phylogenetic transfer of low‐rank network representation. Methods in Ecology and Evolution, 2022, 13, 2838-2849.	5.2	4
5	Assessing the current water clarity status of ~100,000 lakes across southern Canada: A remote sensing approach. Science of the Total Environment, 2022, 826, 153971.	8.0	6
6	Why body size matters: how larger fish ontogeny shapes ecological network topology. Oikos, 2022, 2022, .	2.7	3
7	Managing for the unexpected: Building resilient forest landscapes to cope with global change. Global Change Biology, 2022, 28, 4323-4341.	9.5	21
8	How network size strongly determines trophic specialisation: A technical comment on Luna et al. (2022). Ecology Letters, 2022, 25, 1914-1916.	6.4	6
9	Incorporating putatively neutral and adaptive genomic data into marine conservation planning. Conservation Biology, 2021, 35, 909-920.	4.7	35
10	Influence of habitat availability and fire disturbance on a northern range boundary. Journal of Biogeography, 2021, 48, 394-404.	3.0	8
11	Connecting governance interventions to ecosystem services provision: A social–ecological network approach. People and Nature, 2021, 3, 266-280.	3.7	23
12	Inferred seasonal interaction rewiring of a freshwater stream fish network. Ecography, 2021, 44, 219-230.	4.5	7
13	Network analysis can guide resilience‐based management in forest landscapes under global change. Ecological Applications, 2021, 31, e2221.	3.8	37
14	The geography of metapopulation synchrony in dendritic river networks. Ecology Letters, 2021, 24, 791-801.	6.4	46
15	Landsat 8 Lake Water Clarity Empirical Algorithms: Large-Scale Calibration and Validation Using Government and Citizen Science Data from across Canada. Remote Sensing, 2021, 13, 1257.	4.0	12
16	Dynamic larval dispersal can mediate the response of marine metapopulations to multiple climate change impacts. Oikos, 2021, 130, 989-1000.	2.7	7
17	Network ecology in dynamic landscapes. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20201889.	2.6	45
18	Holistic Assessment of Microplastics and Other Anthropogenic Microdebris in an Urban Bay Sheds Light on Their Sources and Fate. ACS ES&T Water, 2021, 1, 1401-1410.	4.6	29

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19	A data-limited modeling approach for conserving connectivity in marine protected area networks. Marine Biology, 2021, 168, 1.	1.5	3
20	Integrating landscape resistance and multi-scale predictor of habitat selection for amphibian distribution modelling at large scale. Landscape Ecology, 2021, 36, 3557-3573.	4.2	5
21	Monitoring socialâ€"ecological networks for biodiversity and ecosystem services in human-dominated landscapes. Facets, 2021, 6, 1670-1692.	2.4	6
22	Understanding and Modeling Forest Disturbance Interactions at the Landscape Level. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	20
23	Sampling and asymptotic network properties of spatial multiâ€"trophic networks. Oikos, 2021, 130, 2250-2259.	2.7	5
24	Fine-scale spatial segregation in a pelagic seabird driven by differential use of tidewater glacier fronts. Scientific Reports, 2021, 11, 22109.	3.3	6
25	Bridging the divide between ecological forecasts and environmental decision making. Ecosphere, 2021, 12, .	2.2	14
26	The Potential of Agricultural Conversion to Shape Forest Fire Regimes in Mediterranean Landscapes. Ecosystems, 2020, 23, 34-51.	3.4	37
27	Effects of 20thâ€"century settlement fires on landscape structure and forest composition in eastern Quebec, Canada. Journal of Vegetation Science, 2020, 31, 40-52.	2.2	11
28	Modelling the spatialâ€"temporal distributions and associated determining factors of a keystone pelagic fish. ICES Journal of Marine Science, 2020, 77, 2776-2789.	2.5	4
29	Fire and biodiversity in the Anthropocene. Science, 2020, 370, .	12.6	240
30	Making predictive modelling ART: accurate, reliable, and transparent. Ecosphere, 2020, 11, e03160.	2.2	17
31	Forest landscape structure influences the cyclicâ€"eruptive spatial dynamics of forest tent caterpillar outbreaks. Ecosphere, 2020, 11, e03096.	2.2	20
32	Ecological Dynamics: Integrating Empirical, Statistical, and Analytical Methods. Trends in Ecology and Evolution, 2020, 35, 1090-1099.	8.7	7
33	Moderate disturbances accelerate forest transition dynamics under climate change in the temperateâ€"boreal ecotone of eastern North America. Global Change Biology, 2020, 26, 4418-4435.	9.5	44
34	Habitat network topology influences the importance of ecological traps in metapopulations. Ecosphere, 2020, 11, e03146.	2.2	2
35	Future impact of climate extremes in the Mediterranean: Soil erosion projections when fire and extreme rainfall meet. Land Degradation and Development, 2020, 31, 3040-3054.	3.9	44
36	Assessing connectivity and the contribution of private lands to protected area networks in the United States. PLoS ONE, 2020, 15, e0228946.	2.5	18

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37	Accounting for stochasticity in demographic compensation along the elevational range of an alpine plant. Ecology Letters, 2020, 23, 870-880.	6.4	5
38	The mechanisms generating community phylogenetic patterns change with spatial scale. Oecologia, 2020, 193, 655-664.	2.0	9
39	Effects of nonnative species on the stability of riverine fish communities. Ecography, 2020, 43, 1156-1166.	4.5	24
40	Evaluating forest resilience to global threats using functional response traits and network properties. Ecological Applications, 2020, 30, e02095.	3.8	28
41	Importance of spatio–temporal connectivity to maintain species experiencing range shifts. Ecography, 2020, 43, 591-603.	4.5	32
42	Analysing ecological networks of species interactions. Biological Reviews, 2019, 94, 16-36.	10.4	347
43	Fine scale waterbody data improve prediction of waterbird occurrence despite coarse species data. Ecography, 2019, 42, 511-520.	4.5	20
44	Social–environmental drivers inform strategic management of coral reefs in the Anthropocene. Nature Ecology and Evolution, 2019, 3, 1341-1350.	7.8	175
45	The NSERC Canadian Lake Pulse Network: A national assessment of lake health providing science for water management in a changing climate. Science of the Total Environment, 2019, 695, 133668.	8.0	68
46	Reorganization of tree assemblages over the last century in the northern hardwoods of eastern Canada. Applied Vegetation Science, 2019, 22, 474-483.	1.9	10
47	The marine fish food web is globally connected. Nature Ecology and Evolution, 2019, 3, 1153-1161.	7.8	76
48	Disturbances amplify tree community responses to climate change in the temperate–boreal ecotone. Global Ecology and Biogeography, 2019, 28, 1668-1681.	5.8	67
49	Integrating over uncertainty in spatial scale of response within multispecies occupancy models yields more accurate assessments of community composition. Ecography, 2019, 42, 2132-2143.	4.5	10
50	Testing theoretical metapopulation conditions with genotypic data from Boreal Chorus Frogs (<i>Pseudacris maculata</i>). Canadian Journal of Zoology, 2019, 97, 1042-1053.	1.0	2
51	The functional complex network approach to foster forest resilience to global changes. Forest Ecosystems, 2019, 6, .	3.1	167
52	Marine Conservation and Marine Protected Areas. Population Genomics, 2019, , 423-446.	0.5	15
53	Disentangling the spatial distributions of a sponge-dwelling fish and its host sponge. Marine Biology, 2019, 166, 1.	1.5	4
54	A hierarchical Bayesian Beta regression approach to study the effects of geographical genetic structure and spatial autocorrelation on species distribution range shifts. Molecular Ecology Resources, 2019, 19, 929-943.	4.8	6

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55	Dispersal traits interact with dynamic connectivity to affect metapopulation growth and stability. Theoretical Ecology, 2019, 12, 111-127.	1.0	10
56	Trajectory analysis in community ecology. Ecological Monographs, 2019, 89, e01350.	5.4	74
57	Inland surface waters in protected areas globally: Current coverage and 30-year trends. PLoS ONE, 2019, 14, e0210496.	2.5	38
58	Spatially structured statistical network models for landscape genetics. Ecological Monographs, 2019, 89, e01355.	5.4	27
59	Revealing biases in the sampling of ecological interaction networks. PeerJ, 2019, 7, e7566.	2.0	15
60	Asymmetric oceanographic processes mediate connectivity and population genetic structure, as revealed by <scp>RAD</scp>seq, in a highly dispersive marine invertebrate (<i>Parastichopus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 537	3.9	12
61	The spatial scaling of species interaction networks. Nature Ecology and Evolution, 2018, 2, 782-790.	7.8	77
62	Landscape host abundance and configuration regulate periodic outbreak behavior in spruce budworm <i>Choristoneura fumiferana</i>. Ecography, 2018, 41, 1556-1571.	4.5	34
63	Temperature fine‑tunes Mediterranean <i>Arabidopsis thaliana</i> life‑cycle phenology geographically. Plant Biology, 2018, 20, 148-156.	3.8	20
64	Human activities as a driver of spatial variation in the trophic structure of fish communities on Pacific coral reefs. Global Change Biology, 2018, 24, e67-e79.	9.5	42
65	Integrating continuous stocks and flows into state‑and‑transition simulation models of landscape change. Methods in Ecology and Evolution, 2018, 9, 1133-1143.	5.2	18
66	Spatial autoregressive models for statistical inference from ecological data. Ecological Monographs, 2018, 88, 36-59.	5.4	128
67	Spatial Ecology and Conservation Modeling. , 2018, , .		84
68	Putatively adaptive genetic variation in the giant California sea cucumber (<i>Parastichopus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227	3.9	43
	sequencing data. Molecular Ecology, 2018, 27, 5035-5048.		
69	Host functional connectivity and the spread potential of Lyme disease. Landscape Ecology, 2018, 33, 1925-1938.	4.2	15
70	Optimizing the choice of a spatial weighting matrix in eigenvector‑based methods. Ecology, 2018, 99, 2159-2166.	3.2	106
71	Spruce Budworm (Choristoneura fumiferana Clem.) Defoliation Promotes Vertical Fuel Continuity in Ontario's Boreal Mixedwood Forest. Forests, 2018, 9, 256.	2.1	5
72	Spatio‑temporal connectivity: assessing the amount of reachable habitat in dynamic landscapes. Methods in Ecology and Evolution, 2017, 8, 1253-1264.	5.2	76

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73	Hosts, parasites and their interactions respond to different climatic variables. Global Ecology and Biogeography, 2017, 26, 942-951.	5.8	62
74	Habitat alteration and habitat fragmentation differentially affect beta diversity of stream fish communities. Landscape Ecology, 2017, 32, 647-662.	4.2	53
75	A multiple-species framework for integrating movement processes across life stages into the design of marine protected areas. Biological Conservation, 2017, 216, 93-100.	4.1	38
76	Restoration Strategies to Improve Connectivity for Golden-Headed Lion Tamarins (Leontopithecus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 962-983.	1.9	7
77	Signatures of the collapse and incipient recovery of an overexploited marine ecosystem. Royal Society Open Science, 2017, 4, 170215.	2.4	57
78	Grazing exclusion unleashes competitive plant responses in Iberian Atlantic mountain grasslands. Applied Vegetation Science, 2017, 20, 50-61.	1.9	16
79	Using multiple metrics to estimate seasonal landscape connectivity for Blanding's turtles (Emydoidea) Tj ETQq1 1 0.784314 rgBT	4.2	24
80	Transferability and scalability of species distribution models: a test with sedentary marine invertebrates. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 766-778.	1.4	7
81	Model selection with multiple regression on distance matrices leads to incorrect inferences. PLoS ONE, 2017, 12, e0175194.	2.5	26
82	The response of amphibian larvae to environmental change is both consistent and variable. Oikos, 2016, 125, 1700-1711.	2.7	20
83	Spatio-temporal variation of biotic factors underpins contemporary range dynamics of congeners. Global Change Biology, 2016, 22, 1201-1213.	9.5	9
84	The structure of probabilistic networks. Methods in Ecology and Evolution, 2016, 7, 303-312.	5.2	49
85	Conserving woodland caribou habitat while maintaining timber yield: a graph theory approach. Canadian Journal of Forest Research, 2016, 46, 914-923.	1.7	12
86	State-and-transition simulation models: a framework for forecasting landscape change. Methods in Ecology and Evolution, 2016, 7, 1413-1423.	5.2	86
87	The Ecological Role of Sharks on Coral Reefs: Response to Roff et al .. Trends in Ecology and Evolution, 2016, 31, 586-587.	8.7	23
88	Cross-scale integration of knowledge for predicting species ranges: a metamodelling framework. Global Ecology and Biogeography, 2016, 25, 238-249.	5.8	88
89	Synthetic datasets and community tools for the rapid testing of ecological hypotheses. Ecography, 2016, 39, 402-408.	4.5	32
90	Seasonal and temporal changes in species use of the landscape: how do they impact the inferences from multi-scale habitat modeling?. Landscape Ecology, 2016, 31, 1261-1276.	4.2	64

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91	Should the Mantel test be used in spatial analysis?. Methods in Ecology and Evolution, 2015, 6, 1239-1247.	5.2	276
92	How spatio-temporal habitat connectivity affects amphibian genetic structure. Frontiers in Genetics, 2015, 6, 275.	2.3	60
93	Phylogenetic turnover patterns consistent with niche conservatism in montane plant species. Journal of Ecology, 2015, 103, 742-749.	4.0	35
94	Urbanization, Grassland, and Diet Influence Coyote (Canis latrans) Parasitism Structure. EcoHealth, 2015, 12, 645-659.	2.0	7
95	Recreational boating, landscape configuration, and local habitat structure as drivers of odonate community composition in an island setting. Insect Conservation and Diversity, 2015, 8, 31-42.	3.0	8
96	Habitat Loss, Not Fragmentation, Drives Occurrence Patterns of Canada Lynx at the Southern Range Periphery. PLoS ONE, 2014, 9, e113511.	2.5	14
97	Towards Monitoring Biodiversity in Amazonian Forests: How Regular Samples Capture Meso-Scale Altitudinal Variation in 25 km2 Plots. PLoS ONE, 2014, 9, e106150.	2.5	9
98	EDITOR'S CHOICE: Stepping stones are crucial for species' long-distance dispersal and range expansion through habitat networks. Journal of Applied Ecology, 2014, 51, 171-182.	4.0	413
99	Forest recovery patterns in response to divergent disturbance regimes in the Border Lakes region of Minnesota (USA) and Ontario (Canada). Forest Ecology and Management, 2014, 313, 199-211.	3.2	18
100	An early forest inventory indicates high accuracy of forest composition data in pre-settlement land survey records. Journal of Vegetation Science, 2014, 25, 691-702.	2.2	25
101	Applications of spatial statistical network models to stream data. Wiley Interdisciplinary Reviews: Water, 2014, 1, 277-294.	6.5	139
102	Categorical, class-focused map patterns: characterization and comparison. Landscape Ecology, 2013, 28, 1587-1599.	4.2	22
103	A conceptual framework for the spatial analysis of landscape genetic data. Conservation Genetics, 2013, 14, 253-261.	1.5	95
104	Assessing the role of landscape connectivity in recent woodpecker range expansion in Mediterranean Europe: forest management implications. European Journal of Forest Research, 2013, 132, 181-194.	2.5	18
105	The effectiveness of Bayesian state-space models for estimating behavioural states from movement paths. Methods in Ecology and Evolution, 2013, 4, 433-441.	5.2	47
106	Modelling dendritic ecological networks in space: an integrated network perspective. Ecology Letters, 2013, 16, 707-719.	6.4	180
107	Implications of incomplete networks on estimation of landscape genetic connectivity. Conservation Genetics, 2013, 14, 287-298.	1.5	24
108	Functional responses, seasonal variation and thresholds in behavioural responses of moose to road density. Journal of Applied Ecology, 2013, 50, 286-294.	4.0	58

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109	Uncertainties in coupled species distribution–metapopulation dynamics models for risk assessments under climate change. Diversity and Distributions, 2013, 19, 541-554.	4.1	37
110	The combined effects of land-use legacies and novel fire regimes on bird distributions in the Mediterranean. Journal of Biogeography, 2013, 40, 1535-1547.	3.0	29
111	Dispersal analysis of threePeltigeraspecies based on landscape genetics data. Mycology, 2013, 4, 187-195.	4.4	5
112	Process-based models are required to manage ecological systems in a changing world. Ecosphere, 2013, 4, 1-12.	2.2	182
113	Assessment of the status and viability of a population of moose (*Alces alces*) at its southern range limit in Ontario. Canadian Journal of Zoology, 2012, 90, 422-434.	1.0	40
114	Community ecology in the age of multivariate multiscale spatial analysis. Ecological Monographs, 2012, 82, 257-275.	5.4	506
115	Quantifying the spatial relationship between bird species' distributions and landscape feature boundaries in southern Ontario, Canada. Landscape Ecology, 2012, 27, 1481-1493.	4.2	5
116	An invasive species' relationship with environmental variables changes across multiple spatial scales. Landscape Ecology, 2012, 27, 1351-1362.	4.2	20
117	The complimentary role of genetic and ecological data in understanding population structure: a case study using moose (Alces alces). European Journal of Wildlife Research, 2012, 58, 415-423.	1.4	21
118	Spatial contiguity and continuity of canopy gaps in mixed wood boreal forests: persistence, expansion, shrinkage and displacement. Journal of Ecology, 2012, 100, 1257-1268.	4.0	23
119	Effects of sample size, number of markers, and allelic richness on the detection of spatial genetic pattern. Molecular Ecology Resources, 2012, 12, 276-284.	4.8	143
120	Measuring ecological niche overlap from occurrence and spatial environmental data. Global Ecology and Biogeography, 2012, 21, 481-497.	5.8	1,130
121	Characterizing connectivity relationships in freshwaters using patch-based graphs. Landscape Ecology, 2012, 27, 303-317.	4.2	114
122	Landscape connectivity analysis for conservation: insights from combining new methods with ecological and genetic data. Landscape Ecology, 2012, 27, 153-157.	4.2	118
123	The influence of landscape characteristics and home-range size on the quantification of landscape-genetics relationships. Landscape Ecology, 2012, 27, 253-266.	4.2	30
124	Connectivity for conservation: a framework to classify network measures. Ecology, 2011, 92, 847-858.	3.2	308
125	Expanding northward: influence of climate change, forest connectivity, and population processes on a threatened species' range shift. Global Change Biology, 2011, 17, 17-31.	9.5	64
126	Modelling Spatial Interactions Among Fire, Spruce Budworm, and Logging in the Boreal Forest. Ecosystems, 2011, 14, 60-75.	3.4	38

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127	Two-dimensional wavelet analysis of spruce budworm host basal area in the Border Lakes landscape. , 2011, 21, 2197-2209.		18
128	Applications of landscape genetics in conservation biology: concepts and challenges. Conservation Genetics, 2010, 11, 375-385.	1.5	356
129	The sensitivity of least-cost habitat graphs to relative cost surface values. Landscape Ecology, 2010, 25, 519-532.	4.2	203
130	Identifying significant scale-specific spatial boundaries using wavelets and null models: spruce budworm defoliation in Ontario, Canada as a case study. Landscape Ecology, 2010, 25, 873-887.	4.2	23
131	State transition detection in the spatio-temporal incidence of malaria. Spatial and Spatio-temporal Epidemiology, 2010, 1, 251-259.	1.7	8
132	Research in the spatial sciences: how are Canadian geographers contributing?. Canadian Geographer / Geographie Canadien, 2010, 54, 4-14.	1.5	1
133	Considering spatial and temporal scale in landscape‐genetic studies of gene flow. Molecular Ecology, 2010, 19, 3565-3575.	3.9	347
134	Exploring spatial non-stationarity of fisheries survey data using geographically weighted regression (GWR): an example from the Northwest Atlantic. ICES Journal of Marine Science, 2010, 67, 145-154.	2.5	71
135	From Graphs to Spatial Graphs. Annual Review of Ecology, Evolution, and Systematics, 2010, 41, 21-38.	8.3	238
136	Disentangling habitat and social drivers of nesting patterns in songbirds. Landscape Ecology, 2009, 24, 519-531.	4.2	33
137	Response of pine natural regeneration to small‐scale spatial variation in a managed Mediterranean mountain forest. Applied Vegetation Science, 2009, 12, 488-503.	1.9	29
138	Spatial Autocorrelation in Ecological Studies: A Legacy of Solutions and Myths. Geographical Analysis, 2009, 41, 392-397.	3.5	52
139	Spatial autocorrelation and statistical tests: Some solutions. Journal of Agricultural, Biological, and Environmental Statistics, 2009, 14, 188-206.	1.4	60
140	Hydrogeomorphic edge detection and delineation of landscape functional units from lidar digital elevation models. Water Resources Research, 2009, 45, .	4.2	25
141	Spatial structure effects on the detection of patches boundaries using local operators. Environmental and Ecological Statistics, 2008, 15, 447-467.	3.5	15
142	Preface to the special issue on spatial statistics for boundary and patch analysis. Environmental and Ecological Statistics, 2008, 15, 365-367.	3.5	7
143	Spatial pattern and persistence of historical fire boundaries in southern interior British Columbia. Environmental and Ecological Statistics, 2008, 15, 523-535.	3.5	13
144	Spatial Graphs: Principles and Applications for Habitat Connectivity. Ecosystems, 2007, 10, 448-461.	3.4	191

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145	The Effects of Spatial Legacies following Shifting Management Practices and Fire on Boreal Forest Age Structure. Ecosystems, 2007, 10, 1261-1277.	3.4	51
146	Spatial patterns of plant richness across treeline ecotones in the Pyrenees reveal different locations for richness and tree cover boundaries. Global Ecology and Biogeography, 2006, 15, 182-191.	5.8	65
147	Spatial patterns of tree recruitment in a relict population of Pinus uncinata: forest expansion through stratified diffusion. Journal of Biogeography, 2005, 32, 1979-1992.	3.0	63
148	SPATIAL ANALYSIS OF LANDSCAPES: CONCEPTS AND STATISTICS. Ecology, 2005, 86, 1975-1987.	3.2	347
149	EFFECTS OF SPATIAL STRUCTURES ON THE RESULTS OF FIELD EXPERIMENTS. Ecology, 2004, 85, 3202-3214.	3.2	100
150	Spatial association between forest heterogeneity and breeding territory boundaries of two forest songbirds. Landscape Ecology, 2004, 19, 591-601.	4.2	34
151	On the role of spatial stochastic models in understanding landscape indices in ecology. Oikos, 2003, 102, 203-212.	2.7	130
152	The northern limit of Pinus banksiana Lamb. in Canada: explaining the difference between the eastern and western distributions. Journal of Biogeography, 2003, 30, 1709-1718.	3.0	30
153	How to test the significance of the relation between spatially autocorrelated data at the landscape scale: A case study using fire and forest maps. Ecoscience, 2002, 9, 213-218.	1.4	88
154	Spatial autocorrelation and statistical tests in ecology. Ecoscience, 2002, 9, 162-167.	1.4	192
155	Spatial distribution of late-successional coniferous species regeneration following disturbance in southwestern QuÃ©bec boreal forest. Forest Ecology and Management, 2001, 140, 29-37.	3.2	67