

SOME REFERENCES RELATED TO BOGS AND FENS

Compiled by
Louise Kulzer, Water Quality Specialist, King County
and
Scott Luchessa, Senior Wetland Ecologist, Pentec Environmental, Inc.

- Aerts, R., H. DE Caluwe, and H. Konings. 1992. Seasonal allocation of biomass and nitrogen in four *Carex* species from mesotrophic and eutrophic fens as affected by nitrogen supply. *Journal of Ecology* 80: 653-664.
- Aerts, R., B. Wallen, and N. Malmer. 1992. Growth-limiting nutrients in *Sphagnum*-dominated bogs subject to low and high atmospheric nitrogen supply. *Journal of Ecology* 80: 131-140.
- Andrus, R. E. 1986. Some aspects of *Sphagnum* ecology. *Can. J. Bot.* 64: 416-426.
- Austin, K.A. and R.K. Wieder. 1987. Effects of elevated H⁺, SO₄⁻, NO₃⁻, and NH₄⁺ in simulated acid precipitation on the growth and chlorophyll content of 3 North American *Sphagnum* species. *The Bryologist* 90(3): 221-229. (***Sphagnum* ecology**)
- Bache, B. W. 1984. Soil-water interactions. *Phil. Trans. R. Soc. Lond. B* 305: 393-407.
- Banner, A., J. Pojar, and G.E. Rouse. 1983. Postglacial paleoecology and successional relationships of a bog woodland near Prince Rupert, British Columbia. *Can. J. Forest Research* 13: 938-947 (**Succession**)
- Bartsch, I. 1994. Effects of fertilization on growth and nutrient use by *Chamaedaphne calyculata* in a raised bog. *Can. J. Bot.* 72(3): 323-329. (**Human impacts and conservation**)
- Batomalque, A. E., M. Kikuma, and H. Seki. 1992. Population dynamics of attached bacteria in a mesotrophic swampy bog of Japan. *Water, Air & Soil Pollution* 63: 371-378.
- Boatman, D. J., P. D. Hulme, and R. W. Tomlinson. 1975. Monthly determinations of the concentrations of sodium, potassium, magnesium and calcium in the rain and in pools on the Silver Flowe National Nature Reserve. *Journal of Ecology* 63: 903-912.
- Boelter, D.H. and E.S. Verry. 1977. Peatland and Water in the Northern Lake States. U.S.DA, Forest Service Gen. Tech. Rept. NC-31, 22p. North Central Forest Exp. Stn., St. Paul, Minnesota. (**Hydrology**)
- Boeye, Dirk and R. F. Verheyen. 1994. The relation between vegetation and soil chemistry gradients in a ground water discharge fen. *Journal of Vegetation Science* 5: 553-560.
- Brakke, D. F., A. Henriksen, and S. A. Norton. 1987. The relative importance of acidity sources for humic lakes in Norway. *Nature* 329(1): 432-434.
- Bragazza, L., R. Alber, and R. Gerdo. 1998. Seasonal chemistry of pore water in hummocks and hollows in a poor mire in the southern Alps (Italy). *Wetlands* 18(3): 320-328. (**Physical and chemical properties, successional trends, *Sphagnum* ecology**)
- Bridgham, S.D., J. Pastor, J.A. Janssens, C. Chapin and T.J. Malterer. 1996. Multiple limiting gradients in peatlands: a call for a new paradigm. *Wetlands* 16(1): 45-65.

- Bridgham, S.D., K. Updegraff, and J. Pastor. 1998. Carbon, nitrogen, and phosphorus mineralization in northern wetlands. *Ecology* 79(5): 1545-1561.
- Caufield, C., 1991. A reporter at large: Thorne Moors. *The New Yorker*. Feb 4, 1991, pp. 58-77.
- Chadde, S.W., J.S. Shelly, R.J. Bursik, R.K. Moseley, A.G. Evenden, M. Mantas, F. Rabe, and B. Heidel. 1998. Peatlands on National Forests of the Northern Rocky Mountains: Ecology and Conservation. General Technical Report RMRS-GTR-11. Rocky Mountain Research Station, Forest Service, U.S. Department of Agriculture, Ogden, UT.
- Clymo, R. S. 1963. Ion exchange in *Sphagnum* and its relation to bog ecology. *Annals of Botany* 27(106): 310-324.
- Clymo, R.S. and P.M. Hayward. 1982. The Ecology of *Sphagnum*. Chapter 8, In: Bryophyte Ecology. A.J.E. Smith (ed). Chapman and Hill, New York, NY.
- Cooke, S. S. Queens bog data. Unpublished data. Cooke Scientific Services, Seattle, WA.
- Cooke, S. S., and A. Azous. 1992. Chase Lake site 1990, 1991 botanical monitoring program. Puget Sound Wetlands and Stormwater Management Research Program. (Unbound report)
- Cooper, D.J., L.H. Macdonald, S.K. Wenger, and S.W. Woods. 1998. Hydrologic restoration of a fen in Rocky Mountain National Park, Colorado, USA. *Wetlands* 18(3): 335-345. **(Hydrology, human impacts and conservation)**
- Cotner, J. B., and R. T. Heath. 1990. Iron redox effects on photosensitive phosphorus release from dissolved humic materials. *Limnol. Oceanogr.* 35(5): 1175-1181.
- Craft, C. B., and C. J. Richardson. 1993. Peat accretion and N, P, and organic C accumulation in nutrient-enriched and unenriched Everglades Peatlands. *Ecological Applications* 3(3): 446-458.
- Crum, H. 1992. A Focus on Peatlands and Peat Mosses. U of Michigan Press, Ann Arbor, Michigan. (UW Call No.: Nat Sci QK 938 P42 C78) **(Classification, succession, *Sphagnum* key)**
- Dachnowski, Alfred. 1912?. The successions of vegetation in Ohio lakes and peat deposits. *Plant World* 15: 25-39.
- Damman, A.W.H. 1978. Distribution and Movement of Elements in Ombrotrophic Peat Bogs. *Oikos* 30(3): 480-495.
- Damman, A. W. H. 1986. Hydrology, development, and biogeochemistry of ombrogenous peat bogs with special reference to nutrient relocation in a western Newfoundland bog. *Can. J. Bot.* 64: 384-394.
- Dansereau, P. and F. Segadas-Vianna. 1952. Ecological Study of the Peat Bogs of Eastern North America. I. Structure and Evolution of Vegetation. *Can. J. Bot.* 30: 490-520.
- Easthouse, K. B., J. Mulder, N. Christophersen, and H. M. Seip. 1992. Dissolved organic carbon fractions in soil and stream water during variable hydrological conditions at Birkenes, Southern Norway. *Water Resources Research* 28(6): 1585-1596.
- Engstrom, D.R. 1984. Lake development in the boreal peatlands of southeastern Labrador, Canada. *Arcic and Alpine Res.* 16: 447-452 **(Reverse lake-infill succession)**

- Erman, D.C. and N.A. Erman. 1975. Macroinvertebrate composition and productivity in some Sierra Nevada minerotrophic peatlands. *Ecology* 56(3): 591-603. **(Fauna)**
- Finer, L. and F.H. Braekke. 1991. Understorey vegetation on three ombrotrophic pine bogs and the effects of NPK and PK fertilization. *Scandinavian J. Forest Res.* 6:113-128.
- Fitzgerald, B.J. 1966. The microenvironment in a Pacific Northwest bog and its implications for establishment of conifer seedlings. Master of Science thesis, University of Washington. **(King's Lake bog)**
- Frederick, C.M. 1974. A natural history study of the vascular flora of Cedar Bog, Champaign County, Ohio. *Ohio J. of Science* 74: 65-116. **(Succession)**
- Fors, S.R. 1979. A vegetational analysis and partial biotic survey of the Carlisle Bog. Master of Science Thesis, University of Puget Sound.
- Foster, D.R., H.E. Wright Jr., M. Thelaus, and G.A. King. 1988. Bog development and landform dynamics in central Sweden and south-eastern Labrador, Canada. *J. of Ecology* 76: 409-437. **(Succession)**
- Futyma, R.P. 1985. Paleobotanical studies at Indiana Dunes National Lakeshore. U.S. National Park Service Report. Portern, Indiana. **(Anthropogenic effects on succession)**
- Gerdol, R. 1990. Seasonal variations in the element concentrations in mire water and in Sphagnum mosses on an ombrotrophic bog in the southern Alps. *Lindbergia* 16: 44-50.
- Gerdol, R. and L. Bragazza. 1994. The distribution of sphagnum species.
- Gignac, L.D. and D.H. Vitt. 1994. Responses of northern peatlands to climate change: Effects on bryophytes. *J. of the Hattori Botanical Laboratory* 75: 119-132.
- Gignac, L.D., D.H. Vitt, S.C. Zoltai, and S.E. Bayley. 1991. Bryophyte response surfaces along climatic, chemical, and physical gradients in peatlands of western Canada. *Nova Hedwigia* 53: 27-71.
- Glaser, P.H. 1987. The Ecology of Patterned Boreal Peatlands of Northern Minnesota: A Community Profile. Biological Report 85(7.14). National Wetlands Research Center, U.S. Fish and Wildlife Service, Washington, D.C.
- Glaser, P.H., J.A. Janssens, and D.I. Siegel. 1990. The response of vegetation to chemical and hydrological gradients in the Lost River peatland, Northern Minnesota. *J. of Ecology* 78:1021-1048. **(Water chemistry, hydrology, successional patterns)**
- Glaser, P. H. 1992. Raised bogs in eastern North America - regional controls for species richness and floristic assemblages. *Journal of Ecology* 80: 535-554.
- Gore, A.J.P. (ed). 1983. *Ecosystems of the World, Part 4A. Mire: swamp, bog, fen, and moor.* Elsevier, Amersterdam, The Netherlands.
- Gorham, Eville. 1955. The ionic composition of some bog and fen waters in the English Lake District. *Journal of Ecology* 42: 142-152.
- Gorham, Eville. 1956. On the chemical composition of some waters from the Moor House Nature Reserve. *Journal of Ecology* 44: 375-381.
- Gorham, E. 1957. The Development of Peat Lands. *Quarterly Review of Biology* 32: 145-166.

- Gorham, E. Northern peatlands: role in the carbon cycle and probable responses to climatic warming. *Ecological Applications* 1(2): 182-195.
- Gorham, E., and J. A. Janssens. 1992. Concepts of fen and bog re-examined in relation to bryophyte cover and the acidity of surface waters. *Acta Societatis Botanicorum Poloniae* 61: 7-20.
- Gorham, E., and D. L. Tilton. 1978. The mineral content of *Sphagnum fuscum* as affected by human settlement. *Can. J. Bot.* 56: 2755-2759.
- Gorham, E., S.E. Bayley and D.W. Schindler. 1984. Ecological effects of acid deposition upon peatlands: a neglected field in acid-rain research. *Can. Fish. Aquatic Sci.* 41: 1256-1268.
- Halsey, L.A., D.H. Vitt, and L.D. Gignac. 2000. *Sphagnum*-dominated peatlands in North America since the last glacial maximum: their occurrence and extent. *The Bryologist* 103(2): 334-352. **(Bog formation, distribution)**
- Halsey, L., D. Vitt, and S. Zoltai. 1997. Climatic and physiographic controls on wetland type and distribution in Manitoba, Canada. *Wetlands* 17(2):243-262. **(Bog formation)**
- Hansen, H.P. 1941. Paleoecology of a bog in the spruce-hemlock climax of the Olympic Peninsula. *Am. Midland Naturalist* 25: 290-297.
- Hansen, H.P. 1943. A pollen study of two bogs on Orcas Island of the San Juan Islands, Washington. *Torrey Bot. Club Bull* 70: 236-243.
- Haraguchi, Akira. 1991. Effects of water-table oscillation on Redox property of peat in a floating mat. *Journal of Ecology* 79: 1113-1121.
- Hayati, A. A., and M. C. F. Proctor. 1991. Limiting nutrients in acid-mire vegetation: peat and plant analyses and experiments on plant responses to added nutrients. *Journal of Ecology* 79: 75-95.
- Heathwaite, A.L. and Kh. Gottlich (eds). 1993. *Mires: Process, Exploitation, and Conservation*. John Wiley and Sons, New York, NY.
- Hebda, R.J. 1983. Late-glacial and postglacial vegetation history at Bear Cove Bog, northeast Vancouver Island, British Columbia. *Can. J. Bot.* 61: 3172-3192.
- Hebda, R.J. and W.E. Biggs. 1981. The vegetation of Burns Bog, Fraser Delta, southwestern British Columbia. *Syesis* 14: 1-20.
- Heilman, P.E. 1968. Relationship of availability of phosphorus and cations to forest succession and bog formation in interior Alaska. *Ecology* 49(2): 331-336. **(Successional trends)**
- Heinselman, M.L. 1963. Forest Sites, bog processes, and peatland types in the Glacial Lake Agassiz Region, Minnesota. *Ecol. Monographs* 33: 327-374.
- Heinselman, M.L. 1970. Landscape Evolution, Peatland Types, and the Environment in the Lake Agassiz Peatlands Natural Area, Minnesota. *Ecol. Monographs* 40: 235-261.
- Hemond, H. F. 1980. Biogeochemistry of Thoreau's bog, Concord Massachusetts. *Ecological Monographs* 50(4): 507-526.

- Herrera Environmental Consultants, Inc. 1993. Potential changes in wetland pH and alkalinity as a result of urban runoff. Submitted to King County Surface Water Management for the Blakely Ridge Proposed Master Planned Development, 1994.
- Heusser, C.J. 1964. Palynology of four bog sections from the western Olympic Peninsula, Washington. *Ecology* 45(1): 23-40. **(Successional trends)**
- Hobbie, J.E., 1984. The ecology of tundra ponds of the arctic coastal plain: a community profile. U.S. Department of the Interior, Fish and Wildlife Service, Washington D.C. 20240.
- Horner, R., and D. Christensen. 1992. Mooney Swamp Wetland. Hydrologic and water quality monitoring report. (February-December 1991). Center For Urban Water Resources Management, University of Washington, Seattle, WA. (Unbound report)
- Horton, D.G. and D.H. Vitt. 1979. Habitats of circumboreal-subarctic *sphagna*: I. A quantitative analysis and review of species in the Caribou Mountains, northern Alberta. *Can. J. Bot.* 52: 2283-2317. **(Sphagnum ecology)**
- Horton, D.G., N. Malmer, and D.H. Vitt. 1983. Peatland classification: how important are bryophytes? Supplement to the *Am. J. Bot.* 80(6): 1-2.
- Ingram, H.A.P., 1978. Soil layers in mires: function and terminology. *Journal of Soil Science* 29: 224-227.
- Janssen, C.R. 1967. A floristic study of forests and bog vegetation, northwestern Minnesota. *Ecology* 48(5): 751-765. **(Successional trends)**
- Janssens, J. A., and P. H. Glaser. 1986. The bryophyte flora and major peat-forming mosses at Red Lake peatland, Minnesota. *Can. J. Bot.* 64: 427-442.
- Jauhiainen, J., H. Vasander and J. Silvola. 1994. Response of *Sphagnum fuscum* to N deposition and increased CO₂. *Journal of Bryology* 18: 83-95.
- Jeglum, J.K. 1971. Plant indicators of pH and water level in peatlands at Candle Lake, Saskatchewan. *Can J. Bot.* 49: 1661-1676. **(Hydrology)**
- Johnson, D. W. 1981. The natural acidity of some unpolluted waters in southeastern Alaska and potential impacts of acid rain. *Water, Air, and Soil Pollution* 16: 243-252.
- Karlin, E.F. and R.E. Andrus. 1986. *Sphagnum* vegetation of the low shrub bogs of northern New Jersey and adjacent New York. *Bulletin of the Torrey Botanical Club* 113(3):281-287.
- Karlin, E.F. and L.C. Bliss. 1984. Variation in substrate chemistry along microtopographical and water chemistry gradients in peatlands. *Can. J. Bot.* 62: 142-153. **(Chemistry)**
- Klinger, Lee F. 1996. The myth of the classic hydrosere model of bog succession. *Arctic & Alpine Research* 28(1): 1-9.
- Klinger, L.F. 1996. The coupling of soils and vegetation in peatland succession. *Arctic and Alpine research* 28(3): 380-387.
- Kratz, T.K. and C.B. DeWitt. 1986. Internal factors controlling peatland-lake ecosystem development. *Ecology* 67(1): 100-107. **(Succession)**

- Kubiw, H., M. Hickman, and D.H. Vitt. 1989. The developmental history of peatlands at Muskiki and Marguerite Lakes, Alberta. *Can. J. Bot.* 67: 3534-3544. **(Succession)**
- Kuhry, P., L.A. Halsey, S.E. Bayley, and D.H. Vitt. 1992. Peatland development in relation to Holocene climatic change in Manitoba and Saskatchewan (Canada). *Can. J. of Earth Sciences* 29: 1070-1090 **(Bog formation)**
- Kuhry, P., B.J. Nicholson, L.D. Gignac, D.H. Vitt, and S.E. Bayley. 1992. Development of *Sphagnum*-dominated peatlands in boreal continental Canada. *Can. J. Bot.* 71: 10-22 **(Bog formation)**
- Kunze, L.M. 1994. Preliminary Classification of Native, Low Elevation, Freshwater Wetland Vegetation in Western Washington. Natural Heritage Program, Washington State Department of Natural Resources, Olympia, WA. **(Classification)**
- Larsen, James A. 1982. Ecology of Northern Lowland Bogs and Conifer Forests. Academic Press.
- Lebednik, G.K. and R. Del Moral. 1976. Vegetation Surrounding Kings Lake Bog, Washington. *Madrono* 23: 386-400.
- Luken, J.O. 1985. Zonation of *Sphagnum* mosses: Interactions among shoot growth, growth form, and water balance. *The Bryologist* 88(4): 374-379. **(Sphagnum ecology)**
- Luken, J.O. and W.D. Billings. 1986. Hummock-dwelling ants and the cycling of microtopography in an Alaskan peatland. *The Canadian Field-Naturalist* 100: 69-73.
- Malmer, Nils. 1986. Vegetational gradients in relation to environmental conditions in northwestern European mires. *Can. J. Bot.* 64: 375-383.
- Malmer, Nils, D. Horton and D. Vitt, 1992. Element concentrations in mosses and surface waters of western Canadian mires relative to precipitation chemistry and hydrology. *Ecography* 15: 114-128.
- Mayle, F. E. and L. C. Cwynar. 1995. Impact of the Younger Dryas Cooling Event upon lowland vegetation of maritime Canada. *Ecol. Monographs* 65(2): 129-154.
- Meyer, Jeff, L. Vogel and T. Duebendorfer. Wetland vegetation and water quality conditions in wetland ELS21 on the Trossaachs, Brighton's Landing and Belvedere Park properties. Appendix L to the Environmental Impact Statement for the Trossaachs, Brighton's Landing and Belvedere Park properties, issued by King County, 1995. Prepared by David Evans & Associates, Inc. Bellevue, WA 98005-3553.
- Miller, N.G. and R.P. Futyma. 1987. Palaeohydrological implications of Holocene peatland development in northern Michigan. *Quaternary Research* 27: 297-311. **(Succession)**
- Mitsch, W. J., and J. G. Gosselink. 1993. Wetlands, Chapter 12 (Northern peatlands and bogs.) Van Nostrand Reinhold, New York.
- Miyamoto, S., and H. Seki. 1992. Environmental factors controlling the population growth rate of the bacterial community in Matsumi-Ike bog. *Water, Air, and Soil Pollution* 63: 379-396.
- Molen, P. .C. Van Der & T.A. Wumstra. 1994. The thermal regime of hummock-hollow complexes on Clara bog, Co. Offaly. *Biology & Environment* 94B(3): 209-221.
- Moore, P. D., and D. J. Bellamy. 1974. The geochemical template, Chapter 3. In: Peatlands, Elek Science, London, U.K.

- Moore, P.D. and D.J. Bellamy. 1974. Conservation, Chapter 10. In: Peatlands. Elek Science, London, U.K.
(Human impacts and conservation)
- Munson R. K., and S. A. Gherini. 1993. Influence of organic acids on the pH and acid-neutralizing capacity of Adirondack Lakes. *Water Resources Research* 29(4): 891-899.
- National Wetlands Working Group. 1988. Ecological Land Classification Series, No. 24. Wetlands of Canada. Canada Committee on Ecological Land Classification. Sustainable Development Branch, Canadian Wildlife Service, Conservations and Protection, Environment Canada.
- Nichols, H. 1969. Chronology of peat growth in Canada. *Palaeogeography, Palaeoclimatology, Palaeoecology* 6: 61-65. **(Succession)**
- Nicholson, B. 1989. Peat chemistry of a continental mire complex in western Canada. *Can. J. Bot.* 67: 763-775.
(Chemistry)
- Nicholson, B.J. and D.H. Vitt. 1990. The paleoecology of a peatland complex in continental western Canada. *Can. J. Bot.* 68: 121-138. **(Succession)**
- Oliver, B. G., E. M. Thurman, and R. L. Malcolm. 1983. The contribution of humic substances to the acidity of colored natural waters. *Geochimica et Cosmochimica Acta* 47: 2031-2035.
- Osvald, Hugo. 1933. Vegetation of the Pacific coast bogs of North America. *Acta Phytogeographica Suecica* 5: 1-32.
- Osvald, Hugo. 1970. *Vegetation and stratigraphy of Peatlands in North America*. Uppsala. (U of W Forestry QK 938 M3 O69 Also Nat Sci.)
- O'Toole, M.A. and D.M. Synott. 1971. The bryophyte succession on blanket peat following calcium carbonate, nitrogen, phosphorus, and potassium fertilizers. *J. Ecology* 59: 121-126. **(Succession, ecology, development impacts)**
- Panno, S.V., V.A. Nuzzo, K. Cartwright, B.R. Hensel, and I.G. Krapac. 1999. Impact of urban development on the chemical composition of ground water in a fen-wetland complex. *Wetlands* 19(1): 236-245. **(Development impacts and conservation)**
- Payette, Serge. 1988. Late Holocene development of subarctic ombrotrophic peatlands: allogenic and autogenic succession. *Ecology* 69(2): 516-531.
- Podnieszinski, G.S. and D.J. Leopold. 1998. Plant community development and peat stratigraphy in forested fens in response to ground-water flow systems. *Wetlands* 18(3): 409-430. **(Successional trends, hydrology)**
- Pollman, C. D., T. M. Lee, W. J. Andrews, L. A. Sacks, S. A. Gherini, and R. K. Munson. 1991. Preliminary analysis of the hydrologic and geochemical controls on acid-neutralizing capacity in two acidic seepage lakes in Florida. *Water Resources Research* 27(9): 2321-2335.
- Price, J.S. 1991. Evaporation from a blanket bog in a foggy coastal environment. *Boundary-layer Meteorology* 57: 391-406. **(Climate, water balance)**
- Proctor, M. C. F. 1992. Regional and local variation in the chemical composition of ombrogenous mire waters in Britain and Ireland. *Journal of Ecology* 80: 719-736.

- Racine, C.H. and J.C. Walters. 1994. Groundwater-discharge fens in the Tanana Lowlands, Interior Alaska, U.S.A. *Arctic and Alpine Research* 26(4): 418-426. **(Hydrology, water chemistry)**
- Reader, R.J. and J.M. Stewart. 1972. The relationship between net primary productivity and accumulation for a peatland in southeastern Manitoba. *Ecology* 53(6): 1024-1037.
- Rigg, G.B., 1919. Early stages in bog succession. *Pub Puget Sound Biol Station Vol* 2(46): 195 – 210.
(Succession)
- Rigg, G.B. 1922. A bog forest. *Ecology* 3: 207-213.
- Rigg, G.B. 1922. Birch succession in Sphagnum bogs. *J. of Forestry* 20: xx-xx.
- Rigg, G.B. 1925. Some Sphagnum bogs of the north Pacific coast of North America. *Ecology* 6: 260-278.
- Rigg, G.B. 1940. The Development of Sphagnum Bogs in North America. *Botanical Review* 6: 666-693.
- Rigg, G.B. 1950. The Development of Sphagnum bogs in North America. II. *Botanical Review* 16: 109-131.
- Rigg, G.B. 1958. Peat Resources of Washington. Division of Mines and Geology, Bulletin No. 44, State of Washington.
- Rigg, G.B. and C.T. Richardson. 1934. The development of sphagnum bogs in the San Juan Islands. *Am. J. Bot.* 21:610-622.
- Rigg, G.B. and C.T. Richardson. 1938. Profiles of some Sphagnum bogs of the Pacific coast of North America. *Ecology* 19: 408-434.
- Rigg, G.B. and P.D. Strausbaugh. 1949. Some Stages in the Development of Sphagnum Bogs in West Virginia. *Castanea* 14(4): 129-148.
- Rhodes, J.W. 1933. An ecological comparison of two Wisconsin peat bogs. *Bulletin of the Public Museum of the City of Milwaukee*, Vol 7 (3): 305-362. (UW Forestry library 507 M64b v7).
- Rieley, J. and S. Page. 1990. Chapter 7: Ombrotrophic mires. In: *Ecology of Plant Communities: A phytosociological account of the British vegetation*. Longman Scientific & Technical & John Wiley & Sons, Inc., New York.
- Rodwell, J. S., C. D. Piglott, D. A. Ratcliffe, A. J. C. Malloch, H. J. B. Birks, M. C. F. Proctor, D. W. Shimwell, J. P. Huntley, E. Radford, M. J. Wigginton, and P. Wilkins. 1991. *British Plant Communities. Vol. 2. Mires and Heaths*. Cambridge University Press, Cambridge, New York, Port Chester, Melbourne, Sydney. (UW Call No. Science Library QK 306 B857)
- Romanov, V.V. 1960s? Structure of a peat deposit and its active layer. In: *Hydrophysics of Bogs*. Translated from Russian by the Israel Program for Scientific Translations for U.S. Department of Agriculture and the National Science Foundation. (U of W Forestry library GB.R 613)
- Rosenqvist, I., P. Jorgensen, and H. Rueslatten. 1980. The importance of natural H⁺ production for acidity in soil and water. *Proc., Int. Conf. Ecol. Impact Acid Precip.* pp. 240-241.
- Rydin, H. 1993. Mechanisms of interactions among *Sphagnum* species along water level gradients. *Advances in Bryology* 5: 153-185. **(Ecology, hydrology)**

- Rydin, H. 1995. Effects of density and water level on recruitment, mortality and shoot size in *Sphagnum* populations. *J of Bryology* 18: 439-453.
- Sastad, S.M. and K.I. Flatberg. 1994. Leaf size and shape in *Sphagnum recurvum* complex: Taxonomic significance and habitat variation. *J of Bryology* 18: 261-275.
- Schafran, G. C., and C. T. Driscoll. 1993. Flow path-composition relationships for groundwater entering an acidic lake. *Water Resources Research* 29(1): 145-154.
- Schouwenaars, J.M. 1993. Hydrological differences between bogs and bog-relicts and consequences for bog restoration. *Hydrobiologia* 265: 217-244. **(Restoration, development impacts, moisture gradients)**
- Slack, N.G., D. H. Vitt, and D. G. Horton. 1980. Vegetation gradients of minerotrophically rich fens in western Alberta. *Can. J. Bot.* 58: 330-350.
- Schwintzer, Christa R. and G. Williams. 1974. Vegetation changes in a small Michigan bog from 1917 to 1972. *The American Midland Naturalist* 92(2): 447-459. **(Succession)**
- Sjors, H. 1952. On the relation between vegetation and electrolytes in North Sweden mire waters. *Oikos* 2: 241-258.
- Snowden, R. E. D., and B. D. Wheeler. 1993. Iron toxicity to fen plant species. *Journal of Ecology* 81: 35-46.
- Takagi, K.T., T. Tsuboya, H. Takahashi, and T. Inoue, 1999. The effect of the invasion of vascular plants on heat and water balance in the Sarobetsu mire, northern Japan. *Wetlands* 19: 246-254.
- Tallis, J.H. 1994. Pool-and hummock patterning in a southern Pennine blanket mire II. The formation and erosion of the pool system. *Journal of Ecology* 82: 789-803.
- Thurman, E. M. 1985. Organic geochemistry of natural waters. Martinus Nijhoff/Dr W. Junk Publishers, Dordrecht / Boston / Lancaster. pp. 58-65 and pp. 358-361.
- Thormann, M.N., A.R. Szumigalski, and S.E. Bayley. 1999. Aboveground peat and carbon accumulation potentials along a bog-fen-marsh wetland gradient in southern boreal Alberta, Canada. *Wetlands* 19(2): 305-317 **(Successional trends, human impacts and conservation)**
- Thormann, M.N., R.S. Currah, and S.E. Bayley. 1999. The mycorrhizal status of the dominant vegetation along a peatland gradient in southern boreal Alberta, Canada. *Wetlands* 19(2): 438-450.
- van Breemen, Nico, 1995. How sphagnum bogs down other plants. *TREE* 10(7): 270-275.
- van der Valk, A.G. 1981. Succession in wetlands: a Gleasonian approach. *Ecology* 62: 688-696 **(Succession)**
- Verhoeven, J.T.A., S. van Beck, M. Dekker, and W. Storm. 1983. Nutrient dynamics in small mesotrophic fens surrounded by cultivated land. I. Productivity and nutrient uptake by the vegetation in relation to the flow of eutrophicated ground water. *Oecologia* 60: 25-33.
- Verhoeven, J. T. A., E. Maltby, and M. B. Schmitz. 1990. Nitrogen and phosphorus mineralization in fens and bogs. *Journal of Ecology* 78: 713-726.
- Verhoeven, J.T.A. (ed). 1992. Fens and bogs in the Netherlands: vegetation, history, nutrient dynamics, and conservation. Kluwer Academic, Dordrecht, the Netherlands.

- Vitt, D.H. 1990. Growth and production dynamics of boreal mosses over climatic, chemical, and topographic gradients. *Botanical J. of the Linnean Society* 104: 35-59. (***Sphagnum* ecology**)
- Vitt, D.H. 1994. An overview of factors that influence the development of Canadian peatlands. *Memoirs of the Entomological Soc. of Canada* 169: 7-20. (**Classification, bog formation, succession**)
- Vitt, D. H. and N.G. Slack. 1975. An analysis of the vegetation of *Sphagnum*-dominated kettle-hole bogs in relation to environmental gradients. *Can. J. Bot.* 53: 332-359.
- Vitt, D.H. and S. Bayley. 1984. The vegetation and water chemistry of four oligotrophic basin mires in northwestern Ontario. *Can. J. Bot.* 62: 1485-1500. (**Water chemistry, human impacts and conservation**)
- Vitt, D. H., D. G. Horton, N. G. Slack, and N. Malmer. 1990. *Sphagnum*-dominated peatlands of the hyperoceanic British Columbia coast: patterns in surface water chemistry and vegetation. *Can. J. For. Res.* 20: 696-711.
- Vitt, D.H. and W. Chee. 1990. The relationships of vegetation to surface water chemistry and peat chemistry in fens of Alberta, Canada. *Vegetatio* 89: 87-106.
- Vitt, D.H., L.A. Halsey, I.E. Bauer, and C. Cambell. 2000. Spatial and temporal trends in carbon storage of peatlands of continental western Canada through the Holocene. *Can. J. Earth Sci.* 37: 683-693. (**Greenhouse effect, carbon storage**)
- Vitt, D.H., L.A. Halsey and S.C. Zoltai. 1994. The bog landforms of continental western Canada in relation to climate and permafrost patterns. *Arctic & Alpine Research* 26(1): 1-13.
- Vitt, D.H., Y. Li, and R.J. Belland. 1995. Patterns of bryophyte diversity in peatlands of continental western Canada. *The Bryologist* 98(2): 218-227.
- Vitt, D.H. and P. Kuhry. 1992. Changes in moss-dominated wetland ecosystems. pp. 178-210 In: Bates, J.W. and A.M. Farmer (eds). *Bryophytes and Lichens in a Changing Environment*. Clarendon Press, Oxford. (**Trophic status**)
- Walker, D. 1970. Direction and rate in some British post-glacial hydroseres. pp. 117-139 In: D. Walker and R. G. West (eds). *Studies in the vegetational history of the British Isles*. Cambridge Univ. Press, Cambridge, England. (**Succession**)
- Waughman, G.J. and D.J. Bellamy. 1980. Nitrogen fixation and the nitrogen balance in peatland ecosystems. *Ecology* 61(5): 1185-1198. (**Human impacts and conservation**)
- Weider, R.K., M. Novak, W. Schell, T. Rhodes. 1994. Rates of peat accumulation over the past 200 years in five *Sphagnum*-dominated peatlands in the United States. *Journal of Paleolimnology* 12(1): 35-47.
- Wheeler, B.D. and M.C.F. Proctor. 2000. Ecological gradients, subdivisions, and terminology of north-west European mires. *J. of Ecology* 88: 187-203. (**Classification, bog formation, ecological gradients**)
- Whinam, J. and R. Buxton. 1997. *Sphagnum* peatlands of Australasia: an assessment of harvesting sustainability. *Biological Conservation* 2: 21-29.
- Wilcox, D.A. and H.A. Simonin. 1987. A chronosequence of aquatic macrophyte communities in dune ponds. *Aquatic Botany* 28: 227-242. (**Anthropogenic effects on succession**)

- Wind-Mulder, H.L. L. Rochefort, and D.H. Vitt. 1996. Water and peat chemistry comparisons of natural and post-harvested peatlands across Canada and their relevance to peatland restoration. *Ecological Engineering* 7: 196-181. (**Succession, restoration, nutrient enrichment, mining impacts**)
- Winkler, M.G. 1988. Effectiveness of climate on development of two *Sphagnum* bogs in south-central Wisconsin. *Ecology* 69(4): 1032-1043.
- Wright, H.E. Jr, B.A. Coffin and N.E. Aaseng (eds). 1993?. The Patterned Peatlands of Minnesota. University of Minnesota Press. Minneapolis, London.
- Zoltai, S.C. 1987. Peatlands and marshes in the wetland regions of Canada. *Memoirs of the Entomological Society of Canada* 140: 5-13.
- Zoltai, S.C. and J.D. Johnson. 1985. Development of a treed bog island in a minerotrophic fen. *Can. J. Bot* 63: 1076-1085.
- Zoltai, S.C., S. Taylor, J.K. Jeglum, G.G. Mills and J.D. Johnson, 1988. Wetlands of boreal Canada IN: Wetlands of Canada, National Wetlands Working Group, Canada Committee on Ecological Land Classification, Ecological Land Classification Series No. 24.