

CURRICULUM VITAE: Dr Timothy F Ball

Date of Birth: 5 November 1938
Citizenship: Canadian

Post-Secondary Education

B.A., (Honours), Gold Medal Winner, University of Winnipeg, 1970
M.A., University of Manitoba, 1971
Ph.D. (Doctor of Science), Queen Mary College, University of London (England), 1982

Career

1996 - Environmentalist, Public Speaker, Consultant, Author, columnist.
1988-96 Professor, University of Winnipeg
1984-88 Associate Professor, University of Winnipeg
1982-84 Assistant Professor, University of Winnipeg
1977-78 Acting Dean of Students
1972-82 Lecturer, Department of Geography, University of Winnipeg
1971-72 Instructor, Geography Department, University of Winnipeg
1964-68 Air Crew and Operations Officer, Search and Rescue, Arctic and Western Canada, Winnipeg, Manitoba
1962-64 Operations Officer, OTU, 429 Squadron, Summerside, P.E.I.
1960-62 Air Crew, Navigation, Electronics, 415 Squadron, Summerside, P.E.I.

Special Academic or Professional Honours

Gold Medal, Honours Geography, University of Winnipeg
Twice Runner-Up for the Clifford Robson Award for Teaching Excellence
Clifford Robson Award for Teaching Excellence
Atchison Award for Community Service
Graduate Fellowship, University of Manitoba
Humboldt Award, Geography Department, University of Winnipeg
Research Fellow George Morris Centre
Paul Harris Fellow Rotary Canada

Professional Activities Outside the University

Founder and Director, Rupert's Land Research Centre 1980 - 1996
Member, Manitoba Water Commission 1980 - 1996
Past President, Manitoba Social Science Teachers Association
Past Editor, Manitoba Social Science Teachers Journal
Past Chairman, Canadian Committee on Climatic Fluctuation and Man

Member, Social Science Curriculum Advisory Committee, Department of Education
Former Board Member, The Forks Development Heritage Advisory Board
Former Board Member, Urban Ideas Centre
Former Board Member, Western Canada Pictorial Index
Former Chair, City of Winnipeg's Advisory Committee on Hazardous Waste
Technical Advisor to the Canadian Cattlemen's Association
Former Chair Assiniboine River Management Advisory Board
Former Board Member of British Columbia Agriculture in the Classroom

Significant Publications

"The Nitty Gritty of Winnipeg Air", *Prairie Forum*, Fall 1977, pp. 32-47

"Comparative Air Quality in Urban and Suburban Environments of Winnipeg", *Manitoba Environmental Research Council Annual Publication*, Project #33, 1975, p. 15

"An Assessment of the Urban Heat Island as a Potential Energy", *Manitoba Environmental Research Council Annual Publication*, Project #34, 1975, p. 12

"As Cold As Ever I Knew It. Manitoba Climate for the Last 200 Years" *Historical and Scientific Society of Manitoba Transactions*, Series III, Number 33, 1976-77, pp. 61-66

"Analysis of Historical Evidence of Climatic Change in Western and Northern Canada," *Syllogeus*, Climatic Change in Canada 2, Editor, C.R. Harington, National Museum of Natural Sciences, Ottawa, 1981, Vol. 33, pp. 78-96

Climatic Change in Central Canada: A Preliminary Analysis of Weather Information from Hudson's Bay Company Forts at York Factory and Churchill Factory, 1714-1850, unpublished Ph.D. Thesis, University of London, England, p. 480

"The Migration of Geese as an Indicator of Climate Change in the Southern Hudson Bay Region Between 1715 and 1851", *Climatic Change*, Vol. 5, No. 1, 1983a, pp. 83-93

"Climate and History: A Connection that Cannot be Ignored", *History and Social Science Teacher*, Vol. 19, No. 4, May 1984, pp. 205-214

Selected Climatological Data from Hudson's Bay Company Records for the Period 1718-1939 at Churchill, Manitoba, Environment Canada, Downsview, Ontario, 1984, p. 132

Selected Climatological Data from Hudson's Bay Company Records for the Period 1714-1913 at York Factory, Manitoba", Environment Canada, Downsview, Ontario, 1984, p. 174

"Report on a Colloquium Held at the University of Winnipeg", *Manitoba Culture and Heritage*, Vol. 2, No. 2, Summer 1984, pp. 11-12

"A Dramatic Change in the General Circulation on the West Coast of Hudson Bay in 1760 A.D.: Synoptic Evidence Based on Historic Records", *Syllogues Climatic Change in Canada 5: Critical Periods in the Quaternary Climatic History of Northern North America*, Editor, C.R. Harington, National Museums of Canada, 1985, Vol. 55, pp. 219-229

"Preliminary Analysis of Early Instrumental Temperature Records from York Factory and Churchill Factory", *Syllogues Climate Change in Canada 3 Project on Climatic Change in Canada During the Past 20,000 Years*, Editor, C.R. Harington, National Museums of Canada, Vol. 49, 1983b, pp. 203-220

"The Hudson's Bay Company Records as a Source of Climatic Information", *Rendezvous: Selected Papers of the Fourth Annual Fur Trade Conference*, Minnesota Historical Society, Editor, Thomas C. Buckley, 1984, pp. 43-51

"Changes in the General Circulation of the Atmosphere in the 1760's at Churchill and York Factory, Manitoba", *North Dakota Academy of Sciences Symposium Papers*, Vol. 38, pp. 16-18

"Observations of the Transit of Venus at Prince of Wales Fort in 1769", *The Beaver Outfit* 315:2, Autumn 1984, pp. 48-59

"Instrumental Temperature Records at Two Sites in Central Canada: 1768 to 1910" *Climatic Change* 1984, Vol. 6, pp. 39-56

"Historical Evidence and Climatic Implications of a Shift in the Boreal Forest Tundra Transition in Central Canada", *Climatic Change* 1986, Vol. 7, pp. 218-229

"A Report to the Pearse Commission Federal Inquiry on Water Resources", *Manitoba Water Commission*, October 1984, p. 13

"The Boreal-Tundra Transition" in *Physical Geography*, Editor, William Marsh, Harper and Rowe, New York, 1986, pp. 324-325

"An Early Energy Crisis: The Importance of Woodcutting at Churchill in the Early Years of the Fur Trade", *Horizon Canada*, 1985, Vol. 5, No. 60, pp. 1436-1440.

"Measurement of Climate in Early Canada", *Horizon Canada*, 1985, Vol. 3, No. 27, pp. 562-573

"Teaching Weather and Climate: Some Topics that Should be Covered", *Social Science Teachers Journal*, Spring 1985, Vol. 12, No. 2, pp. 13-15

"The Climate of Antarctica", *Manitoba Social Science Teachers Journal*, Spring 1986, Vol. 13, No. 1, pp. 28-31

"Long-term Climate Trends and Agriculture on the Prairies", *Proceedings of the First Ministers Conference on the Environment*, Calgary, Alberta, 1986, pp. 17-26

"Evidence of Climate Change at Trengwainton Gardens, Cornwall, England", *Weather*, June 1987, Vol. 42, No. 6, pp. 176-180

"Timber", *The Beaver*, 1987, Vol. 67:2, pp. 45-57

"Fur Trade Gardens", *The Prairie Garden*, 1987, Vol. 48, pp. 117-120

"Historical and Instrumental Evidence of Extreme Climatic Conditions in Central Canada: 1770-1820", *Annales Geophysicae*, Proceedings of the Annual Geophysical Society General Assembly, Bologna, March 1988, p. 84

"Company Town", *The Beaver*, June-July 1988, Vol. 68:3, pp. 43-52

Fundamentals of Physical Geography, Copp Clarke and Pitman, First Edition, Toronto, 1989, p. 594

"Water: The Resource Issue of the 21st Century in North America", *Canadian Dimensions*, Fall 1988, Vol. 22, No. 6, pp. 8-14

"Manitoba Climate: Past, Present and Future", *Technical and Scientific Papers of the Conference for Agricultural Professionals*, 1988, Manitoba Agri-Forum, Winnipeg, pp. 134-139

"Dauphin Lake, Manitoba: Death of a Prairie Lake?", *Manitoba Social Science Teachers Journal*, Vol. 15:2, 1988, pp. 11-23"

"Lifeblood of a City", *Manitoba Social Science Teachers Journal*, Vol. 15:2, 1988, pp. 28-43

"Manitoba Climate: Its Impact on Agriculture, Past, Present and Future", in *Proceedings 2nd Sol and Elsie Sinclair Farm Management Seminar Fund Series*, 1988, Faculty of Agricultural Economics, University of Manitoba

"Agriculture in the Classroom - A Report", *Manitoba Social Science Teachers Journal* Vol. 15:2, 1998, pp. 25-28

"Historical and Instrumental Evidence: Central Canada, 1714-1850" in *Climate Since 1500 A.D.*, Editors, Philip Jones and Raymond Bradley, Climatic Research Centre, University of East Anglia

"Global Warming; The Need for Objectivity", *Bio-Joule*, January 1990, Vol. 12.3, pp.

"Global Warming: Fact or Misinformation", *Canadian Dimension*, April/May 1990, Vol. 24:3, pp. 22-26

"The Greenhouse Effect; the Need for Scientific and Social Responsibility", Proceedings of the Canadian Committee on Climatic Fluctuation and Man Conference, National Museum of Natural Sciences, Ottawa, January, 1990

"Stromness, Orkney Islands; A Town of the Fur Trade", *Highlander*, Chicago, Illinois, May, 1990, pp. 4-8

Geopolitics: Understanding GATT and Free Trade, *Proceedings of the Conference on Managing Agriculture for Profit*, Kananaskis, Alberta, 1991.

Climate and Agriculture: An Update, *Proceedings of the Conference on Managing Agriculture for Profit*, Kananaskis, Alberta, 1991.

The Impact of Climate Change on Sustainable Agriculture in Canada, 1991 Science Council of Canada, Queen's Printers, Ottawa, 114 p.

"Climatic Change, Droughts and Their Social Impact: Central Canada, 1811-20, a classic example." In C.R.Harington (ed) *The Year Without a Summer? World Climate in 1816*. 1992, National Museum of Natural Sciences, Canadian Museum of Nature, Ottawa

"The Year without a Summer: Its Impact on the Fur Trade and History of Western Canada." In C.R.Harington (ed) *The Year Without a Summer? World Climate in 1816*. 1992, National Museum of Natural Sciences, Canadian Museum of Nature, Ottawa

Ball, T., Fossett, R., Dion, L., Marcotte, G.M., 1992, *An Historical Overview of Aboriginal Lifestyles: The Churchill/Nelson Drainage Basin*, Rupert's Land Research Centre, Report for Manitoba Hydro. p. 307.

Briggs, Smithson and Ball., 1992 of *Fundamentals of Physical Geography*, Second Edition, Copp Clark and Pitman. Toronto. p. 604.

"An Iconoclast's View of Climatic Change" *Canadian Water Resources Journal*, Vol. 17, No.2. 1992.

Ball and Houston, *18th Century Naturalists of Hudson Bay*, McGill/ Queens University Press, 2004

M.G. Dyck, W. Soon, R.K. Baydack, D.R. Legates, S. Baliunas, T.F. Ball and L.O. Hancock Polar bears of western Hudson Bay and climate change: Are warming spring air temperatures the "ultimate" survival control factor? *Ecological Complexity* September, 2007, p 73-84.

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