

MARTIN PARRY

SUMMARY CURRICULUM VITAE

Professor Parry is Visiting Professor at The Centre for Environmental Policy, Imperial College London, and also Visiting Research Fellow at The Grantham Institute at the same university. Until September 2008 he was Co-Chair of Working Group II (Impacts, Adaptation and Vulnerability), of the Intergovernmental Panel on Climate Change (IPCC) based at the Hadley Centre for Climate Prediction and Research, U.K. Meteorological Office. Previously he was Director of the Jackson Environment Institute (JEI), and Professor of Environmental Science at the University of East Anglia (1999-2002); Director of the JEI and Professor of Environmental Management at University College London (1994-99), foundation Director of the Environmental Change Institute and Professor of Geography at the University of Oxford (1991-94), and Professor of Geography at the University of Birmingham (1989-91).

He has published about 150 scientific papers, mainly in the field of climate change and agriculture, including 5 books. From 1983 -2005 he was editor of the journal *Global Environmental Change*.

He is a recipient of the Peek Award (1991) from the Royal Geographical Society (UK), and the Gerbier-Mumm International Award (1993) from the World Meteorological Organisation, both for contributions to research on climate change and agriculture. He was appointed OBE in 1998 for services to the environment and to climate change.

MARTIN PARRY

FULL CURRICULUM VITAE

NAME: PARRY, Martin Lewis

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PRESENT OCCUPATION:

Visiting Professor (Centre for Environmental Policy) and Visiting Research Fellow (Grantham Institute) at Imperial College London

AWARDS:

- 1990 The 1990 Award from The Geographical Association, for significant contributions to Geography.
- 1991 Cuthbert Peek Award from the Royal Geographical Society for contributions to research on the environment.
- 1993 Gerbier-Mumm International Award from the World Meteorological Organisation (for contributions to climatology).
- 1997 Honorary Fellow, Royal Agricultural Society of England (for research on climate change and agriculture).
- 1998 Appointed OBE, for services to the environment and to climate change.

DEGREES:

B.A. (Honours) Geography, 1967, University of Durham

M.Sc. Geography, 1969, University of the West Indies

Ph.D. Geography, 1973, University of Edinburgh

PREVIOUS APPOINTMENTS:

- 1973-85 Department of Geography, University of Birmingham, **Lecturer**
- 1986-88 Department of Geography, University of Birmingham, **Senior Lecturer**
- 1988-89 Department of Geography, University of Birmingham, **Reader in Resource Management**
- 1989-1991 Department of Geography, University of Birmingham, **Professor of Environmental Management**
- 1991-1994 Environmental Change Unit, University of Oxford, **IBM Director, Professor of Environmental Management. Professorial Fellow of Linacre College.**
- 1994-1999 Department of Geography, University College London, **Professor of Environmental Management** and **Director**, Jackson Environment Institute.

- 1999-2002 School of Environmental Sciences, University of East Anglia, **Professor of Environmental Science** and **Director**, Jackson Environment Institute.
- 2002- 2008 Co-Chair, Working Group II, **Intergovernmental Panel on Climate Change**.

VISITING APPOINTMENTS:

- 1983-85 International Institute for Applied Systems Analysis, Laxenburg, Austria.
Project Director, Climate Impacts Project.

JOURNAL EDITORSHIPS:

Editor (managing), *Global Environmental Change*, Elsevier Science (1992 to 2004)

MEMBERSHIP OF INTERNATIONAL COMMISSIONS AND BOARDS:

Co-Chair, IPCC Working Group II, 2002-2008

Chair, IPCC Task Group on Scenarios for Climate Impact Assessment, 1997-2003

Convening Lead Author, IPCC Working Group II in First, Second and Third Assessments.

Chairman, International Human Dimensions Programme of Global Environmental Change (IHDP), 1995-96

Vice Chairman and Treasurer, Human Dimensions of Global Environmental Change Programme, 1992-94

Member, Scientific Advisory Committee of World Climate Impacts and Responses Programme (U.N. Environment Programme), 1987-1994.

Member, Advisory Board on Global Change, International Union for the Conservation of Nature, 1991-1994

Chairman, Steering Committee of Project on Land Use and Land Cover Change in Eurasia, International Institute for Applied Systems Analysis, Austria, 1996-97.

Member, International Study on Improving the Science of Climate Impact Assessment (ICSU/SCOPE), 1982-1983.

MEMBERSHIP OF NATIONAL REVIEW GROUPS AND BOARDS:

Chairman, Working Group IV (Impacts), UK NERC TIGER Programme, 1990-6.

Chairman, U.K. Climate Change Impacts Review Group, Department of the Environment, 1989-96.

Member, Committee on Global Environmental Change, UK ESRC, 1991-95

Member, U.K. Committee for the International Geosphere-Biosphere Programme, 1993-96

Member, Governing Body of UK AFRC Institute of Grassland and Environmental Research, 1993-97

Member, Scientific Advisory Committee to UK Business in the Environment, 1992-98.

PUBLICATIONS

(Professor M.L. Parry)

Books, reviewed journal articles and reviewed reports

- 1967 (with G.D. Hammond) Agriculture in a Mende village, east Sierra Leone, *Journal of the Durham University Geographical Society*, 9(1967): 75-112
- 1968 Agriculture in the Christiana area, Jamaica: ideology and practice, *Journal of the Jamaican Geographical Society*, 3:8-11
- 1975 Secular climatic change and marginal agriculture, *Trans. Inst. Br. Geogr.* 64:1-15
- 1975 County maps as historical sources - A sequence of surveys in south-east Scotland, *Scottish Studies*, 19:15-26
- 1976 A typology of cultivation ridges in southern Scotland, *Tools and Tillage*, 3:3-19
- 1976 Scotland's agricultural improvement, *Area*, 8:238-239
- 1976 The abandonment of upland settlement in southern Scotland, *Scott. Geogr. Mag.* 92:50-60

- 1976 The significance of the variability of summer warmth in upland Britain, *Weather* 31:212-217
- 1976 The mapping of abandoned farmland in upland Britain: A reconnaissance survey in south-east Scotland, *Geogr. Jour.* 142:101-110
- 1976 *Mapping moorland change: A framework for land-use decisions in the Peak District*, Peak Park Planning Board, Bakewell, 40 pp. re-published as: *A framework for land-use planning in moorland areas, Occasional Publication No. 4, Department of Geography, University of Birmingham, (1977), 40 pp.*
- 1978 *Climatic change, agriculture and settlement.* Dawson (Folkestone, U.K.) and Archon (Hamden, Conn.) 216 pp.
- 1979 The impact of climatic change, *Nature* 280:634-635
- 1979 Aerial photographic evidence of moorland change, in: Gilg, A.W. (Ed.) *Policies for landscapes under pressure.* Northgate: London, pp. 43-55
- 1979 Monitoring upland landscape change by remote sensing, in: Smith, D. (Ed.) *Landscape towards 2000: Desolation or conservation.* Landscape Institute, London, pp 49-52
- 1979 Climatic change, settlement and agriculture, in: Mertens, J. (Ed.) *Sources de la géographie historique en Belgique,* Archives Generales due Royaume, Bruxelles, pp. 498-522
- 1979 Mapping moorland change: A rejoinder. *Landscape Research* 4(3):25
- 1980 Ed., with Slater, T.R. *The making of the Scottish countryside,* Croom Helm, London, 327 pp.
- 1981 The course of rural change in Scotland, in: Parry, M.L. and Slater, T.R. (Eds.) *The making of the Scottish countryside,* Croom Helm, London, pp 17-20
- 1981 Ed., with C. Delano-Smith. *Consequences of climatic change,* Nottingham, 110 pp.
- 1981 Climatic change and the agricultural frontier, in: Wigley, T.M.L. et al., *Climate and History,* Cambridge University Press, Cambridge, pp. 319-336

- 1981 Evaluating the impact of climatic change: in: C. Delano-Smith and M.L. Parry (Eds.), *Consequences of climatic change*, Nottingham, pp. 5-3
- 1982-84 *Surveys of Moorland and Roughland Change*. Reports of the Moorland Change Project, Department of Geography, University of Birmingham [Note: These are externally reviewed reports]
- (with A. Bruce and C.E. Harkness) *Changes in the extent of moorland and roughland in Northumberland National Park, Report No. 4*, 66 pp.
- (with A. Bruce and C.E. Harkness) *Changes in the extent of moorland and roughland in the North York Moors*, Report No. 5, 71 pp.
- (with A. Bruce and C.E. Harkness) *Changes in the extent of moorland and roughland on Dartmoor, Report No. 6*, 65 pp.
- (With A. Bruce and C.E. Harkness) *Changes in the extent of moorland and roughland in the Brecon Beacons, Report No. 7*, 77 pp.
- (with A. Bruce and C.E. Harkness) *Changes in the extent of moorland and roughland on Dartmoor - A supplementary survey to 1979, Report No. 13*.
- (with A. Bruce and C.E. Harkness) *Changes in the extent of moorland and roughland in the Yorkshire Dales National Park, Report No. 9*, 77 pp.
- (with A. Bruce and C.E. Harkness) *Changes in the extent of moorland and roughland in the Lake District National Park, Report No. 10*, 64 pp. (Report 1 to 3 forthcoming; Reports 11 and 12 by other authors).
- 1982 The problem of climate in history, *Climatic Change*, 4: 107-110.
- 1982 The changing use of land, in: R.J. Johnston and J. Doornkamp (Eds.) *The changing geography of the United Kingdom*, London, pp. 13-35.
- 1982 Monitoring changes in the extent of moorland in National Parks, in: K. Hearn (Ed.) *Recreation Ecology Research Group Report No. 8*, pp. 8-19.
- 1983 Assessing the impact of climatic change, *Transactions of the Nebraska Academy of Sciences*, 9:65-70
- 1983 (with T.R. Carter) *Assessing impacts of climatic change in marginal areas: The search for an appropriate methodology*, IIASA Working

- Paper WP-83-77, International Institute for Applied Systems Analysis, Laxenburg, Austria, 24 pp.
- 1983 Changing legislation by research. *SSRC Newsletter*, 50:23-24.
- 1984 (with T.R. Carter) *Climate Impact Assessment in Cold Regions*. International Institute for Applied Systems Analysis, Summary Report SR-84-1, Laxenburg, Austria, 42 pp.
- 1984 (with T.R. Carter) Strategies for assessing impacts of climatic change in marginal areas, in: Morner, N.-A. and Karlen, W. (Eds.) *Climatic changes on a yearly to millennial basis*, Reidel, Dordrecht, 401-415.
- 1984 (with B. Bolin and M. Glantz) *Report of the study conference on sensitivity of ecosystems and society to climate change*, World Climate Impact Studies Programme, WCP-83, 40 pp.
- 1984 Evaluating sensitivity and impact: The methodology emerging from studies of climatic change in cold areas, in: Bolin B., Glantz, M. and Parry, M.L. *The sensitivity of ecosystems and society to climatic change, ibid.*, pp. 15-29
- 1985 (with G. Sinclair) *Mid-Wales Uplands Study*. Countryside Commission Cheltenham, 40 pp.
- 1985 Editor, *Climatic Change* 7(1), Special Issue: The sensitivity of natural ecosystems and agriculture to climate change. 151 pp.
- 1985 (with T.R. Carter) The effect of climatic variations on agricultural risk, *Climatic Change* 7(1):95-110
- 1985 Estimating the sensitivity of natural ecosystems and agriculture to climatic change, *Climatic Change* 7(1):1-3
- 1985 Assessing the impact of climate change on marginal areas, in: Kates, R.W. *et al.*, (Eds.) *Climate impact assessment: Studies of the interaction of climate and society*. Wiley, New York, pp. 351-367
- 1985 Upland settlement and climatic change: The medieval evidence, in: D. Spratt and C. Burgess (Eds.) *Upland settlement in Britain: The second millenium and after*, British Archaeological Reports 143, London, pp. 35-49
- 1985 (with T.R. Carter and N.T. Konijn) Climate impact analysis in cold regions, *Nordia* 18(2):67-79

- 1985 (with T.R. Carter and N.T. Konijn) Estimating climate impacts on food production in climate-sensitive areas, *Climatological Bulletin* 19(1):23-26
- 1985 (with T.R. Carter and N.T. Konijn) Climate change: How vulnerable is agriculture? *Environment* 27(1):4-6
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- 1986 (with Warrick, R.A. and Gifford, R.M.) CO₂, climate change and agriculture, in: Bolin, B. et al., (Eds.) *The greenhouse effect, climatic change and ecosystems*, SCOPE 29, Wiley, New York, pp. 393-473
- 1986 Some implications of climatic change for human development, in: Clark, W. and Munn, R.E., *Sustainable development of the biosphere*, Cambridge University Press, Cambridge, pp. 378-407
- 1986 (with T.R. Carter) Climatic changes and changes in crop yield variability, in: Hazell, P.B.R. (Ed.) *Summary Proceedings of a Workshop on Cereal Yield Variability*, International Food Policy Research Institute, Washington, D.C., pp. 47-70
- 1986 (with T.R. Carter) Effects of climatic changes on agriculture and forestry: An overview, in: Titus, J.F. (Ed.) *Health and Environmental Effects of Ozone Modification and Climate Change*, U.S. Environmental Protection Agency, Washington, D.C., pp. 257-297
- 1987 (with R.E. Chen) *Policy-oriented impact assessment of climatic variations*, IIASA, Research Report, RR-87-7, 54 pp. Reprinted 1988 as *Climate Impacts and Public Policy*, IIASA/UNEP, 54 pp.
- 1987 Climate impact assessment: A review of some approaches, in: D.A. Wilhite *et al.*, *Planning for drought*, Westview Press, Boulder, pp. 165-186
- 1987 An overview of climate impact studies in: Magill, B.L. and Geddes, F. (Eds) *The Impacts of Climate Change and Variability on the Canadian Prairies*. Saskatchewan Research Council, Edmonton, Canada, pp. 93-128
- 1988 Ed. (with T.R. Carter and N.T. Konijn) *The impact of climatic variations on agriculture. Vol. 1. Assessments in cool temperate and cold regions*, 880 pp., Kluwer, Dordrecht, for UNEP and IIASA

- 1988 Ed. (with T.R. Carter and N.T. Konijn) *The impact of climatic variations on agriculture, Vol. 2. Assessments in semi-arid regions*, 700 pp., Kluwer, Dordrecht, for UNEP and IIASA
- 1988 (with T.R. Carter) The assessment of effects of climatic variations on agriculture: aims, methods and summary of results, in: Parry, M. L. et al., (Eds.), *The impact of climatic variations on agriculture. Vol. 1. Assessment in cool temperate and cold regions*, Kluwer, Dordrecht, Netherlands, pp. 11-95
- 1988 (with T.R. Carter) The assessment of effects of climatic variations on agriculture in semi-arid regions: aims, methods and summary of results, in: Parry, M.L. et al., (Eds.), *The impact of climatic variations on agriculture, Vol. 2. Assessment in semi-arid regions*, Kluwer, Dordrecht, Netherlands, pp. 10-93
- 1988 (with N.J. Read) (Eds.) *The impact of climatic variability on U.K. industry*, Atmospheric Impacts Research Group, University of Birmingham, AIR Report 1, 69 pp.
- 1988 (with T.R. Carter) Assessing the impacts on climatic change and forestry, in R. Fantechi and A. Ghazi (Eds.) *Carbon Dioxide and other Greenhouse Gases: Climatic and Associated Impacts*, Kluwer, The Netherlands, 256-269
- 1988 (with T.R. Carter) *Climate change and agriculture, in: J. Topping (Ed.) Proceedings of the Second North American Conference on Preparing for Climate, Change*, The Climate Institute, Washington, D.C.
- 1989 The Impact of Warming on Agriculture. *Forum for Applied Research and Public Policy*, 4(4): 3-46, Tennessee Valley Authority, Knoxville, Tennessee, USA.
- 1989 Potential Impacts of Climatic Change in the U.K. *Agricultural Engineer*, Vol. 44(4): 124-125, Institution of Agricultural Engineers, Silsoe, Bedfordshire, UK.
- 1989 (with T.R. Carter) An Assessment of the Effects of Climatic Change on Agriculture. *Climatic Change* 15: 95-116, Reidel, Dordrecht, The Netherlands.
- 1989 (with T.R. Carter) The Impact of Climatic Change on Agriculture. In: *Coping with Climate Change*, pp 180-185, Climate Institute, Washington DC.

- 1989 (with T.R. Carter) The effect of climatic variations on food production. In: *Climate and Food Security*, pp. 429-450, IRRI, Manila, Philippines.
- 1989 (with S.K. Sinha) Food Security. In: *The Changing Atmosphere*, pp. 321-323, WMO, Geneva, Switzerland.
- 1989 (with Easterling, W.E. and Crosson, P.R.) Adapting future agriculture to changes in climate. In: Rosenberg, N.J., Easterling, W.E., Crosson, P.R., Darmstadter, J. (Eds), *Greenhouse warming: abatement and adaptation*, pp. 91-104, Resources for the Future, Washington DC, USA.
- 1989 The potential impact on agriculture of the "Greenhouse Effect". In: Bennett, R.M. (Ed), *The Greenhouse Effect and UK Agriculture*, pp. 17-23, CAS Paper 19, Reading, UK.
- 1990 (with T.R. Carter and J.H. Porter) The Greenhouse Effect and the Future of UK Agriculture. *Journal of the Royal Agricultural Society of England*, 150: 120-131., Roy. Agric. Soc. England, London, UK.
- 1990 The Potential Impact on Agriculture of the Greenhouse Effect. *Land Use Policy*, 7: 109-123, Butterworth-Heinemann, Oxford, UK.
- 1990 (with M.T. Jackson and B.V. Ford-Lloyd) (Eds) *Climatic Change and Plant Genetic Resources*, 190 pp, Bellhaven Press.
- 1990 (with T.R. Carter) An Assessment of the Effects of Climatic Change on Agriculture. In: Jackson, M.T., Ford-Lloyd, B.V. and Parry, M.L.(Eds) *Climatic Change and Plant Genetic Resources*, pp 61-84, Bellhaven Press.
- 1990 (with B.V. Ford-Lloyd and M.T. Jackson) Can Genetic Resources Cope with Global Warming. In: Jackson, M.T., Ford-Lloyd, B.V. and Parry, M.L. (Eds) *Climatic Change and Plant Genetic Resources*, pp 179-182, Bellhaven Press.
- 1990 (with J.H. Porter and T.R. Carter) Countdown to a new climate. In: *Countryside News*, issue 41, Jan/Feb. 1990, p.3, Gloucester, UK.
- 1990 (with J.H. Porter and T.R. Carter) Climatic Change and Implications for Agriculture. In *Outlook on Agriculture*, Vol. 19, 1-9, Pergamon Press, Elmsford, New York, USA.
- 1990 *Climate Change and World Agriculture*, Earthscan, London, 150 pp.
- 1990 (with T.R. Carter and J.H. Porter) Effects of climatic changes on agricultural potential in Europe, In: Boer, M.M. and De Groot (Eds.)

- Landscape-ecological Impact of Climatic Change*, pp. 327-346, IOS Press, Amsterdam.
- 1990 (with J.H. Porter and T.R. Carter) Agriculture: Climatic change and the implications, *Trends in Ecological Research*, Vol. 5, 9, pp. 318-322, Elsevier Scientific Publishers Limited, Cambridge, UK.
- 1990 (with T.R. Carter and J.H. Porter) Climatic change and future agroclimatic potential in Europe. In: *International Journal of Climatology*, pp. 251-269, Wiley, Chichester, UK.
- 1990 (with T.R. Carter and N.T. Konijn) Climate impact analysis in cold regions. In: J.M. Gvishiani (Ed), *Methodological Problems of Systems Research*, VNISI, Moscow.
- 1990 (with T.R. Carter and J.H. Porter) Climatic change and future crop suitability in Europe. In: *The Greenhouse Effect and Primary Productivity in European Ecosystems*, Pudoc, Wageningen, The Netherlands.
- 1990 (with P.N. Duinker) Agriculture and forestry. In: *Climate Change: The IPCC Impacts Assessment*, pp 2-1 - 2-45, Australian Government Publishing Service, Canberra, Australia.
- 1990 (with T.R. Carter and J.H. Porter) The Greenhouse Effect and the Future of UK Agriculture. *Journal of the Royal Agricultural Society of England*, 150: 120-131., Roy. Agric. Soc. England, London, UK.
- 1990 The Potential Impact on Agriculture of the Greenhouse Effect. *Land Use Policy*, 7: 109-123, Butterworth-Heinemann, Oxford, UK.
- 1990 (with M.T. Jackson and B.V. Ford-Lloyd) (Eds) *Climatic Change and Plant Genetic Resources*, 190 pp, Bellhaven Press.
- 1990 (with T.R. Carter) An Assessment of the Effects of Climatic Change on Agriculture. In: Jackson, M.T., Ford-Lloyd, B.V. and Parry, M.L.(Eds) *Climatic Change and Plant Genetic Resources*, pp 61-84, Bellhaven Press.
- 1990 (with B.V. Ford-Lloyd and M.T. Jackson) Can Genetic Resources Cope with Global Warming. In: Jackson, M.T., Ford-Lloyd, B.V. and Parry, M.L. (Eds) *Climatic Change and Plant Genetic Resources*, pp 179-182, Bellhaven Press.

- 1990 (with J.H. Porter and T.R. Carter) Countdown to a new climate. In: *Countryside News*, issue 41, Jan/Feb. 1990, p.3, Gloucester, UK.
- 1990 (with J.H. Porter and T.R. Carter) Climatic Change and Implications for Agriculture. In *Outlook on Agriculture*, Vol. 19, 1-9, Pergamon Press, Elmsford, New York, USA.
- 1990 *Climate Change and World Agriculture*, Earthscan, London, 150 pp.
- 1990 (with T.R. Carter and J.H. Porter) Effects of climatic changes on agricultural potential in Europe, In: Boer, M.M. and De Groot (Eds.) *Landscape-ecological Impact of Climatic Change*, pp. 327-346, IOS Press, Amsterdam.
- 1990 (with J.H. Porter and T.R. Carter) Agriculture: Climatic change and the implications, *Trends in Ecological Research*, Vol. 5, 9, pp. 318-322, Elsevier Scientific Publishers Limited, Cambridge, UK.
- 1990 (with T.R. Carter and J.H. Porter) Climatic change and future agroclimatic potential in Europe. In: *International Journal of Climatology*, pp. 251-269, Wiley, Chichester, UK.
- 1990 (with T.R. Carter and N.T. Konijn) Climate impact analysis in cold regions. In: J.M. Gvishiani (Ed), *Methodological Problems of Systems Research*, VNISI, Moscow.
- 1990 (with T.R. Carter and J.H. Porter) Climatic change and future crop suitability in Europe. In: *The Greenhouse Effect and Primary Productivity in European Ecosystems*, Pudoc, Wageningen, The Netherlands.
- 1990 (with P.N. Duinker) Agriculture and forestry. In: *Climate Change: The IPCC Impacts Assessment*, pp 2-1 - 2-45, Australian Government Publishing Service, Canberra, Australia.
- 1991 (with T.E. Downing) Global Warming: Climate Scenarios and International Agriculture, *Symposium on the Impacts of Climatic Change and Variability on the Great Plains*, Occasional Paper No. 12, University of Waterloo, pp. 43-53.
- 1991 (with T.E. Downing) Climatic change, agriculture and food security. In: *A Change in the Weather*, pp. 127-139, ACTS Press, Nairobi, Kenya.
- 1991 (with J.H. Porter and T.R. Carter) The potential effects of climate change on agricultural pests. *Agricultural and Forest Meteorology*, Vol. 57: 221-240.

- 1991 (with T.R. Carter and J.H. Porter) Climatic warming and crop potential in Europe. *Global Environmental Change*, Vol. 1:4: 291-313.
- 1991 (with J. Zhang) The potential effect of climatic changes on agriculture. In: *Climate Change: Science, Impacts and Policy*, pp. 279-290, Cambridge University Press, Cambridge, UK.
- 1991 The changing use of land. In: Johnstone, R.J. and Gardiner, V. (Eds) *The Changing Geography of the UK*, pp. 7-34, Routledge, London, UK.
- 1991 (ed) *The Potential Effects of Climate Change in the UK*, The Department of the Environment, London, UK., pp.
- 1991 (with A.P. Brignall and J.H. Porter) GIS and the impacts of climate change. *Mapping Awareness*, 5:6, July/August 1991.
- 1991 (with C.J. Parry) Global warming implications for housing and planning in the UK. In: *Housing and Planning Review Journal*, pp. 4-5, June/July 1991.
- 1991 (with C.J. Parry) Preparing for climatic change. In: *Town and Country Planning*, pp. 184-186, June 1991.
- 1991 (with T.R. Carter) Climatic changes and land use potential in Europe. In: Brouwer, F. (ed.), *Future Environments of Europe*, pp. 209-232, Kluwer, Dordrecht, The Netherlands.
- 1991 Climate Change and World Food Supply, King's School, Grantham, United Kingdom, 15 pp.
- 1991 The potential Effect of climate changes on Agriculture and land use. *Advances in Ecological Research*, 22: 63-91.
- 1991 Global Climate, British Gas, London, 10pp.
- 1992 *Climate Change and World Agriculture* (Japanese translation) Tuttle-Mori Agency, Toyoko, pp 159.
- 1992 Agriculture as a resource system. In: Bowler, I.R. (ed.), *The Geography of Agriculture in Developed Market Economies*, pp. 207-238, Longman Scientific & Technical, Harlow, Essex, United Kingdom.
- 1992 (with T.R. Carter, S. Nishioka and H. Harasawa) Preliminary Guidelines for Assessing Impacts of Climate Change. *Intergovernmental Panel on Climate Change*, 28 pp.

- 1992 *The Potential Socio-economic Effects of Climate Change*. WMO/UNEP, Geneva, Switzerland, 28 pp.
- 1992 (with M. Blantran de Rozari, A.L. Chong and S. Panich, (eds.). *The Potential Socio-economic Effects of Climate Change in South-east Asia*. United Nations Environment Programme, Nairobi, 126 pp.
- 1992 (with T.R. Carter and J.H. Porter). Some implications of climatic change for agriculture in Europe. *Journal of Experimental Botany*, (43) No. 253: 1159-1167.
- 1992 (with J.E. Hossell and L.J. Wright). Land use in the United Kingdom. In: Whitby, M.C. (ed.), *Land Use Change: the causes and consequences*, ITE Symposium No. 27, HMSO, London.
- 1992 (with M.S. Swaminathan). Effects of climate change on food production. In: Mintzer, I.M. (ed.), *Avoiding Climate Shock: The Challenge of Responsible Development in a Warming World*, Cambridge University Press, Cambridge, United Kingdom.
- 1992 Climate change and the future of agriculture. *Innovation and New Materials*, Milan, Italy. Vol. 1: 38-53.
- 1992 The potential effect of climate changes on agriculture and land use, *Advances in Ecological Research*, Vol. 22, pp. 63-91.
- 1992 The Greenhouse effect and agriculture in N.W Europe, in: Collins, J.F. (Ed.) *Proceedings of 1992 AGMET Conference: Future of Irish Agriculture - The Role of Climate*, University College, Dublin, pp. 1- 10.
- 1992 (with T.R. Carter and J.H. Porter) Potential impact of climate change on agriculture in the UK, in: Battarbee, R.W. and Patrick, S.T. (Eds). *The Greenhouse Effect: Consequences for Britain*, ENSIS Publishing, London, pp 45-49.
- 1993 Climate change and the future of agriculture. In: *Proceedings of the Conference on Priorities for Water Resources Allocation and Management*, pp. 161-176, Overseas Development Administration, London, United Kingdom.
- 1993 Climate Change and the future of agriculture, *International Journal of Environment and Pollution*, 3(1-3): 13-30.

- 1993 (with C.J. Parry) Agricultural geography of barley in: Jones, M., Mathyys, G. and Rikjs, D. (Eds.) *The Agrometeorology of Barley-based Farming Systems*, ICARDA, Aleppo, Syria, pp.15-31.
- 1993 (with G. Fischer, K.Frohberg and C.Rosenzweig) Climate change and world food supply, demand and trade, in: Kaya, Y., Nakicenovic, N., Nordhaus, W.D. and Toth, F.L. (Eds.) *Costs, Impacts and Benefits of CO₂ Mitigations*, IIASA, Laxenberg, Austria, pp. 133-151.
- 1993 Ed. (with G.J. Kenny and P.A. Harrison) *The Effect of Climate Change on Agricultural and Horticultural Potential in Europe*, Research Report No.2, Environmental Change Unit, University of Oxford, Oxford, 240pp.
- 1993 (with C. Rosenzweig) Potential impacts of climate change on world food supply: a summary of a recent international study, in: Kaiser, H.M. and Drennen, T.E. (Ed.) *Agricultural Dimensions of Global Climate Change*, St. Lucie Press, Delray Beach, Florida, pp. 87-116.
- 1993 (with C.Rosenzweig) The Potential Effects of Climate Change on World Food Supply, in Jackson, M.B. and Black, C.R. (Eds.) *Interacting Stresses on Plants in a Changing Climate*, Springer-Verlag, Berlin.
- 1993 (with M.Hulme and J.E. Hossell) Future climate change and land use in the United Kingdom, *Geographical Journal*, 159 (2):131-147.
- 1993 (with C.Rosenzweig) The potential effects of climate change on world food supply, in Atkinson, D. (Ed.) *Global Climate Change: Its Implications for Crop Protection*, British Crop Protection Council Monograph No.56, pp. 33-55.
- 1993 (with C. Rosenzweig) Implications for grasslands of the response to climate change by the world food system, in *Proceedings of the XVII International Grassland Congress*, 8-21 February 1993, Palmerston North, New Zealand, pp.1239-1246.
- 1993 (with C. Rosenzweig, G. Fischer and K. Frohberg), *Climate Change and World Food Supply*, Environmental Change Unit Research Report No. 3, University of Oxford, Oxford, United Kingdom, 40 pp.
- 1993 Geographers and the impact of climate change. In: Johnston, R.J. (ed.), *The Challenge for Geography*, pp. 138-147, Blackwell Publishers, Oxford, United Kingdom
- 1993 (with C. Rosenzweig.) Climate change, food supply and the risk of hunger, *The Lancet*, 342:1345-1347.

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