

Professor Mike Hulme

Master Publications List, April 2007

Sections

- Peer-reviewed Journal Papers
- Books or Book Chapters
- Other Formal Publications (ISSN, ISBN listed)
- Unpublished Reports/Articles/Conference Proceedings/Web Publications (no ISSN, ISBN)
- Book Reviews

Peer-reviewed Journal Papers

- J1** Hulme,M. (1983) Unusual rains in the 1982-83 'dry' season at Khartoum **Weather**, 38, 275-276.
- J2** Hulme,M. (1984) 1983: an exceptionally dry year in central Sudan **Weather**, 39, 270-274.
- J3** Trilsbach,A. and Hulme,M. (1984) Recent rainfall changes in central Sudan and their physical and human implications **Trans. Inst. Brit. Geogs.**, 9, 280-298.
- J4** Hulme,M. (1985) Dust production in the Sahel **Nature**, 318, 488.
- J5** Hulme,M. (1986) The adaptability of a rural water supply system to extreme rainfall anomalies in central Sudan **Applied Geography**, 6, 87-103.
- J5** Hulme,M. (1987) Rainfall in Sudan: An asset or liability **Geoforum**, 18, 321-331.
- J6** Hulme,M. (1987) The 1986 wet season in central Sudan **Weather**, 42, 193-195.
- J7** Hulme,M. (1987) Secular changes in wet season structure in central Sudan **J. of Arid Environments**, 13, 31-46.
- J8** Walsh,R.P.D., Hulme,M. and Campbell,M. (1988) Recent rainfall changes and their impact on hydrology and water supply in the semi-arid zone of Sudan **Geogr. J.**, 154, 181-198
- J9** Hulme,M. (1989) Is environmental degradation causing drought in the Sahel? **Geography**, 74, 38-46.
- J10** Hulme,M. and Tosdevin,N. (1989) The Tropical Easterly Jet and Sudan rainfall: a review **Theor.**

- and Appl. Climatol.**, 39, 179-187
- J11** Hulme,M. and Trilsbach,A. (1989) The August 1988 storm over Khartoum: its climatology and impact **Weather**, 44, 82-90
- J12** Hulme,M. (1990) The changing rainfall resources of Sudan **Trans. Inst. Brit. Geogr.**, 15, 21-34
- J13** Hulme,M. (1990) Global warming in the twentyfirst century: an issue for Less Developed Countries **Science, Technology and Development**, 8, 3-21
- J14** Jones,P.D. and Hulme,M. (1990) Temperatures and sunshine duration over the UK during the period May to October 1989 compared to previous years **Weather**, 45, 430-437
- J15** Hulme,M. and Jones,P.D. (1991) Temperatures and windiness over the UK during the winters of 1988/89 and 1989/90 compared to previous years **Weather**, 46, 126-135
- J16** Hulme,M. (1991) An intercomparison of model and observed global precipitation climatologies **Geophys. Res. Lett.**, 18, 1715-1718
- J17** Hulme,M. (1991) Record warmth in 1990 and global warming **Geography**, 76, 365-369
- J18** Barring,L. and Hulme,M. (1991) Filters and approximate confidence intervals for interpreting rainfall anomaly indices **J. Climate**, 4, 837-847
- J19** Hulme,M. (1992) A 1951-80 global land precipitation climatology for the evaluation of General Circulation Models **Climate Dynamics**, 7, 57-72
- J20** Hulme,M., Biot,Y., Borton,J., Buchanan-Smith,M., Davies,S., Folland,C.K., Nicholds,N., Seddon,D. and Ward,M.N. (1992) Seasonal rainfall forecasting for Africa. Part I: current status and future development **Int. J. Env. Studies (A)**, 39, 245-256
- J21** Hulme,M., Biot,Y., Borton,J., Buchanan-Smith,M., Davies,S., Folland,C.K., Nicholds,N., Seddon,D. and Ward,M.N. (1992) Seasonal rainfall forecasting for Africa. Part II: application and impact assessment **Int. J. Env. Studies (A)**, 40, 103-121
- J22** Hulme,M., Marsh,R. and Jones,P.D. (1992) Global changes in a humidity index between 1931-60 and 1961-90 **Climate Research**, 2, 1-22
- J23** Hulme,M. (1992) Rainfall changes in Africa: 1931-60 to 1961-90 **Int. J. Climatol.**, 12, 685-699
- J24** Conway,D. and Hulme,M. (1993) Recent fluctuations in precipitation and runoff over the Nile sub-Basins and impacts on Main Nile discharge **Climatic Change**, 25, 127-152
- J25** Hulme,M. and Kelly,P.M. (1993) Exploring the links between desertification and climate change **Environment**, 35, 4-11 and 39-45
- J26** Hulme,M., Briffa,K.R., Jones,P.D. and Senior,C.A. (1993) Validation of GCM control simulations using daily airflows indices over the British Isles **Climate Dynamics**, 9, 95-105
- J27** Hulme,M., Hossell,J.E. and Parry,M.L. (1993) Future climate change and land use in the United Kingdom **Geogr. J.** 159, 131-147
- J28** Jones,P.D., Hulme,M. and Briffa,K.R. (1993) A comparison of Lamb circulation types with an objective classification derived from grid-point mean-sea-level pressure data **Int. J. Climatol.**, 13, 655-664
- J29** Briffa,K.R., Jones,P.D. and Hulme,M. (1994) Summer moisture supply across Europe: an analysis

- based on the Palmer Drought Severity Index, 1892-1991 **Int. J. Climatol.**, 14, 475-506
- J30** Hulme,M. (1994) Regional climate change scenarios based on IPCC emissions projections with some illustrations for Africa **Area**, 26, 33-44
- J31** Hulme,M. (1994) The cost of climate data - a European experience **Weather**, 49, 168-175
- J32** Hulme,M. and Jones,P.D. (1994) Global climate change in the instrumental period **Environmental Pollution**, 83, 23-36
- J33** Hulme,M., Zhao,Z-C. and Jiang,T. (1994) Recent and future climate change in East Asia **Int. J. Climatol.**, 14, 637-658
- J34** Rotmans,J., Hulme,M. and Downing,T.E. (1994) Climate change implications for Europe: an application of the ESCAPE model **Global Env. Change**, 4, 97-124
- J35** Airey,M. and Hulme,M. (1995) Validating precipitation simulations by climate models: problems, methods and applications **Prog. in Phys. Geography**, 19, 427-448
- J36** Hulme,M. (1995) Estimating changes in global precipitation **Weather**, 50, 34-42
- J37** Hulme,M. , Raper,S.C.B. and Wigley,T.M.L. (1995) An integrated framework to address climate change (ESCAPE) and further developments of the global and regional climate modules (MAGICC) **Energy Policy** 23 347-355
- J38** Hulme,M., Conway,D., Jones,P.D., Barrow,E.M., Jiang,T. and Turney,C. (1995) A 1961-90 climatology for Europe for climate change modelling and impacts applications **Int. J. Climatol.**, 15, 1333-1363
- J39** Srinivasan,G., Hulme,M. and Jones,C.G. (1995) An evaluation of the spatial and interannual variability of tropical precipitation as simulated by GCMs **Geophys. Res. Letts.**, 22, 1697-1700.
- J40** Viner,D., Hulme,M. and Raper,S.C.B. (1995) Climate change scenarios for the assessment of climate change on regional ecosystems **J. Therm. Biol.**, 20, 175-190.
- J41** Airey,M.J., Hulme,M. and Johns,T. (1996) Evaluation of simulations of precipitation by the UK Met. Office/Hadley Centre model **Geophys. Res. Letts.**, 23, 1657-1660.
- J42** Barrow,E.M. and Hulme,M. (1996) The changing probabilities of daily temperature extremes in the UK related to future global warming and changes in climate variability **Climate Research**, 6, 21-31
- J43** Barrow,E.M., Hulme,M. and Semenov,M. (1996) Effect of using different methods in the construction of climate change scenarios: examples from Europe **Climate Research**, 7, 195-211.
- J44** Conway,D. and Hulme,M. (1996) The impacts of climate variability and climate change in the Nile Basin on future water resources in Egypt **Int. J. Water Resources Development**, 12, 277-296.
- J45** Conway,D., Krol,M., Alcamo,J. and Hulme,M. (1996) Future water availability in Egypt: the interaction of global, regional and basin-scale driving forces in the Nile Basin **Ambio**, 25, 336-342.
- J46** Hulme,M. (1996) Recent climatic change in the world's drylands **Geophys. Res. Letts.**, 23, 61-64
- J47** Hulme,M., Conway,D., Joyce,A. and Mulenga,H. (1996) A 1961-90 climatology for Africa south of the equator and a comparison of PE estimates for the region **S.African J. Science**, 92, 334-343.
- J48** Jones,P.D. and Hulme,M. (1996) Calculating regional climatic time series for temperature and precipitation: methods and illustrations **Int. J. Climatol.**, 16, 361-377.

- J49** Jones,P.D., Hulme,M., Briffa,K.R., Jones,C.G., Mitchell,J.F.B. and Murphy,J.G. (1996) Summer moisture variability over Europe in the Hadley Centre GCM using the Palmer Drought Severity Index **Int. J. Climatol.**, 16, 155-172.
- J50** Parry,M.L., Carter,T.R. and Hulme,M. (1996) What is a dangerous climate change? **Global Environmental Change**, 6, 1-6.
- J51** Wardlaw,R.B., Hulme,M. and Stuck,A.Y. (1996) Modelling the impacts of climatic change on water resources **J.Chartered Inst. Water & Env. Management**, 10, 355-364.
- J52** Chattopadhyay,N. and Hulme,M. (1997) Evaporation and potential evapotranspiration in India under conditions of recent and future climate change **Agric. and Forest Meteor.** 87, 55-72.
- J53** Downing,T.E., Ringius,L., Hulme,M. and Waughray,D. (1997) Adapting to climate change in Africa **Mitigation and Adaptation Strategies for Global Change**, 2, 19-44.
- J54** Hulme,M. (1997) The climate in the UK from November 1994 to October 1995 **Weather** 52, 242-257.
- J55** Hulme,M. and New.M. (1997) Dependence of large-scale precipitation climatologies on temporal and spatial gauge sampling **J.Climate** 10, 1099-1113.
- J56** Osborn,T.J. and Hulme,M. (1997) Development of a relationship between station and gridbox rainfall frequencies for climate model validation **J.Climate** 10, 1885-1908.
- J57** Hulme,M. and Brown,O. (1998) Portraying climate scenario uncertainties in relation to tolerable regional climate change **Climate Research**, 10, 1-14.
- J58** Hulme,M. and Viner,D. (1998) A climate change scenario for the Tropics **Climatic Change**, 39, 145-176.
- J59** Hulme,M., Osborn,T.J. and T.C.Johns (1998) Precipitation sensitivity to global warming: Comparison of observations with HadCM2 simulations **Geophys. Res. Letts.**, 25, 3379-3382.
- J60** Osborn,T.J. and Hulme,M. (1998) Evaluation of the daily precipitation characteristics of AMIP atmospheric model simulations over Europe **Int. J. Climatol.**, 18, 505-522.
- J61** Parry,M.L., Arnell,N., Hulme,M., Nicholls,R.J. and Livermore,M. (1998) Adapting to the inevitable **Nature**, 395, 741.
- J62** Parry,M.L., Arnell,N.W., Hulme,M., Nicholls,R.J. and Livermore,M. (1998) Buenos Aires and Kyoto targets do little to reduce climate impacts **Global Env. Change** 8, 285-289.
- J63** Doherty,R.M., Hulme,M. and Jones,C.G. (1999) A gridded reconstruction of land and ocean precipitation for the extended Tropics from 1974-1994 **Int. J. Climatol.**, 19, 119-142.
- J64** Hulme,M., Barrow,E.M., Arnell,N., Harrison,P.A., T.E.Downing and T.C.Johns (1999) Relative impacts of human-induced climate change and natural climate variability **Nature**, 397, 688-691.
- J65** Hulme,M., Harrison,P.A. and Arnell,N.W. (1999) Climate variability and crop yields in Europe: reply to Porter,J.R. and Semenov,M.A., **Nature**, 400, 724.
- J66** Hulme,M., Mitchell,J.F.B., Ingram,W., Johns,T.C., Lowe,J.A., New,M.G. and Viner,D. (1999) Climate change scenarios for global impacts studies **Global Environmental Change**, 9, S3-S19.
- J67** Jones,P.D., Horton,E.B., Folland,C.K., Hulme,M., Parker,D.E. and Basnett,T.A. (1999) The use of indices to identify changes in climatic extremes **Climatic Change**, 42, 131-149.

- J68** Mitchell,T. and Hulme,M. (1999) Predicting regional climate change: living with uncertainty **Prog. in Phys. Geogr.** , 23, 57-78.
- J69** New,M., Hulme,M. and Jones,P.D. (1999) Representing twentieth century space-time climate variability. Part 1: development of a 1961-90 mean monthly terrestrial climatology **J.Climate**, 12, 829-856.
- J70** Osborn,T.J., Conway,D., Hulme,M., Gregory,J.M. and Jones,P.D. (1999) Air flow influences on local climate: observed and simulated mean relationships for the UK **Climate Research** 13, 171-191.
- J71** Parry,M.L., Arnell,N.W., Hulme,M., Martens,P., Nicholls,R.J. and White,A. (1999) The global impact of climate change: a new assessment **Global Environmental Change**, 9, S1-S2.
- J72** Lorenzoni,I., Jordan,A., Hulme,M., Turner,R.K. and O'Riordan,T. (2000) A co-evolutionary approach to climate change impact assessment: part I - integrating socio-economic and climate change scenarios **Global Environmental Change**, 10, 57-68.
- J73** Lorenzoni,I., Jordan,A., Hulme,M., Turner,R.K. and O'Riordan,T. (2000) A co-evolutionary approach to climate change impact assessment (II): a scenario-based case study in the UK **Global Environmental Change**, 10, 145-155.
- J74** New,M., Hulme,M. and Jones,P.D. (2000) Representing twentieth century space-time climate variability. Part 2: development of 1901-96 monthly grids of terrestrial surface climate **J.Climate**, 13, 2217-2238.
- J75** New,M.G. and Hulme,M. (2000) Representing uncertainties in climate change scenarios: a Monte Carlo approach **Integrated Assessment**, 1, 203-213.
- J76** Osborn,T.J., Hulme,M., Jones,P.D. and Basnett,T. (2000) Observed trends in the daily intensity of United Kingdom precipitation **Int. J.Climatol.**, 20, 347-364.
- J77** Subak,S., Palutikof,J.P., Agnew,M.D., Watson,S.J., Bentham,C.G., Cannell,M.G.R., Hulme,M., McNally,S., Thornes,J.E., Waughray,D. and Woods,J.C. (2000) The impact of the anomalous weather of 1995 on the UK economy **Climatic Change** 44, 1-26.
- J78** Dessai,S. and Hulme,M. (2001) Climatic implications of revised IPCC emissions scenarios, the Kyoto Protocol and quantification of uncertainties **Integrated Assessment**, 2, 159-170.
- J79** Horton,E.B., Parker,D.E., Folland,C.K., Jones,P.D. and Hulme,M. (2001) The effect of increasing the mean on the percentage of extreme values in Gaussian and skew distributions. Response to X. Zhang *et al.* **Climatic Change**, 50, 509-510.
- J80** Hulme,M. (2001) Climatic perspectives on Sahelian desiccation: 1973-1998 **Global Environmental Change** 11, 19-29.
- J81** Hulme,M. (2001) Manabe,S. and Wetherald,R.T. 1975: The effects of doubling the CO₂ concentration on the climate of a general circulation model *Journal of the Atmospheric Sciences*, 32, 3-15. Classics in physical geography revisited **Prog. in Phys. Geog.**, 25, 385-387.
- J82** Hulme,M., Doherty,R.M., Ngara,T., New,M.G. and Lister,D. (2001) African climate change: 1900-2100 **Climate Research** 17, 145-168.
- J83** New,M., Todd,M., Hulme,M. and Jones,P.D. (2001) Precipitation measurements and trends in the twentieth century **Int. J. Climatol.**, 21, 1899-1922.
- J84** Arnell,N.W., Cannell,M.G.R., Hulme,M., Kovats,R.S., Mitchell,J.F.B., Nicholls,R.J., Parry,M.L., Livermore,M.T.J. and White,A. (2002) The consequences of CO₂ stabilisation for the impacts of climate change **Climatic Change** 53, 413-446.

- J85** Doherty,R.M. and Hulme,M. (2002) The relationship between the SOI and extended tropical precipitation in simulations of future climate change **Geophys. Res. Letts.** 29(10), 113-14.
- J86** Lu,X., Crossley,J. and Hulme,M. (2002) An exploration of regional climate change scenarios for Scotland **Scottish Geographical Journal**, 117, 251-270.
- J87** Mitchell,T.D. and Hulme,M. (2002) Length of the growing season **Weather**, 57, 196-198.
- J88** Mitchell,T.D., Hulme,M. and New,M. (2002) Climate data for political areas **Area**, 34, 109-112.
- J89** New,M., Lister,D., Hulme,M. and Makin,I. (2002) A high-resolution data set of surface climate over global land areas **Climate Research** 21, 1-25
- J90** Osborn,T.J. and Hulme,M. (2002) Evidence for trends in heavy rainfall events over the UK **Phil. Transactions of the Royal Society (A)**, 360, 1313-1325.
- J91** Patz,J.A., Hulme,M., Rosenzweig,C., Mitchell,T.D., Goldberg,R.A., Githeko,A.K., Lele,S., McMichael,A.J. and Le Sueur,D. (2002) Regional warming and malaria resurgence **Nature** 420, 627-628.
- J92** Turnpenny,J.R., Crossley,J.F., Hulme,M. and Osborn,T.J. (2002) Air flow influences on local climate: comparison of a regional climate model with observations over the United Kingdom. **Climate Research**, 20, 189-202.
- J93** Adger,W.N., Huq,S., Brown,K., Conway,D. and Hulme,M. (2003) Adaptation to climate change in the developing world **Progress in Development Studies**, 3, 179-195.
- J94** Hulme,M. (2003) Abrupt climate change: can society cope? **Phil. Trans. Royal Society London (A)**, 361, 2001-2021.
- J95** Goodess,C.G., Hanson,C., Hulme,M. and Osborn,T.J. (2004) Representing climate and extreme weather events in integrated assessment models: a review of existing methods and options for development **Integrated Assessment** 3, 145-171.
- J96** Dessai,S., Adger,N.W., Hulme,M., Köhler,J., Turnpenny,J. and Warren,R. (2004) Defining and experiencing dangerous climate change **Climatic Change** 64, 11-25.
- J97** Hulme,M. and Turnpenny,J. (2004) Understanding and managing climate change: the UK experience **Geographical Journal** 170, 115-125.
- J98** Dai,A., Lamb,P.J., Trenberth,K.E., Hulme,M., Jones,P.D. and Xie,P. (2004) The recent Sahel drought is real **Int. J. Climatol.**, 24, 1323-1331.
- J99** Watkinson,A.R., Gill,J.A. and Hulme,M. (2004) Flying in the face of climate change: a review of climate change, past, present and future **Ibis**, 146 (Suppl. 1), 4-10.
- J100** Dessai,S. and Hulme,M. (2004) Does climate adaptation policy need probabilities? **Climate Policy** 4, 107-128.
- J101** Adger,W.N., Brown,K. and Hulme,M. (2005) Re-defining global environmental change **Global Environmental Change**, 15, 1-4.
- J102** Dessai,S., Lu,X. and Hulme,M. (2005) Limited sensitivity analysis of regional climate change probabilities for the 21st century **J. Geophys. Res.**, 110, D19108, doi:10.1029/2005JD005919
- J103** Dessai,M. and Hulme,M. (2007) Assessing the robustness of adaptation decisions to climate change uncertainties: a case-study on water resources management in the East of England **Global Environmental Change** 17(1), 59-72.

J104 Dessai,M., O'Brien,K. and Hulme,M. (2007) On uncertainty and climate change **Global Environmental Change** 17(1), 1-3

Books or Book Chapters

- B1** Hulme,M. (1988) Changes in wet season structure in central Sudan, 1900-86 pp.179-182 in, **Recent climatic fluctuations and changes: data, characteristics and impacts** (ed.) Grgeory,S., Belhaven Press, London, 310pp.
- B2** Hulme,M., Wigley,T.M.L. and Jones,P.D. (1990) Limitations of regional climate scenrios for impact analysis pp.111-129 in, **Landscape-ecological impact of climatic change** (eds.) Boer,M.M. and de Groot,R.S., IOS, Amsterdam, 429pp.
- B3** Hulme,M. (1991) Living in the greenhouse pp.68-73 in, **Children's Britannica Yearbook 1991** Encyclopaedia Britannica International Ltd, London, 232pp.
- B4** Hulme,M. and Trilsbach,A. (1991) Rainfall trends and rural changes in Sudan since Nimeiri pp.1-18 in, **Sudan after Nimeiri** (ed.) Woodward,P., Routledge/SOAS, London, 223pp.
- B5** Hulme,M. (1992) Recent and future precipitation changes over the Nile Basin pp.187-201 in, **Climate fluctuations and water management** (eds.) Biswas,A.K. and Abu Said,M.A., Butterworth-Heineman, Oxford
- B6** Hulme,M. (1993) Historic records and recent climatic change pp.69-98 in, **The changing global environment** (ed.) Roberts,N., Blackwell, Oxford, 531pp.
- B7** Hulme,M. (1994) Global climate change and the Nile Basin pp.139-162 in, **The Nile: sharing a scarce resource** (eds.) Howell,P.P. and Allan,J.A., Cambridge University Press, Cambridge, 408pp.
- B8** Hulme,M. (1994) Global climate seasonality, variability and change pp.50-63 in, **Atlas of world development** (ed.) Unwin,P.T.H., J.Wiley & Sons, Chichester, 346pp.
- B9** Hulme,M. (1994) Validation of large-scale precipitation fields in General Circulation Models pp.387-405 in, **Global precipitations and climate change** (eds. Desbois,M.and Désalmand,F.), Springer-Verlag, Berlin, 466pp.
- B10** Hulme,M. (1994) Global warming and the implications for Asia and the Pacific pp.39-46 in, **The Far East and Australasia, 1995** (26th edn.) Europa Publications, London, 1142pp.
- B11** Ojwang,J.B., Hulme,M., Conway,D., Kelly,P.M., Subak,S. and Downing,T.E. (1995) Greenhouse gas emissions and their impacts pp.49-84 in, **A climate for development: climate change policy options for Africa** (eds.) Okoth-Ogendo,H.W.O. and Ojwang,J.B., ACTS Press/SEI, Nairobi, Kenya, 264pp.
- B12** Okoth-Ogendo,H.W.O., Ogallo,L, Hulme,M., Conway,D., Kelly,P.M., Subak,S. and Downing,T.E. (1995) Global climate change and the environment pp.11-46 in, **A climate for development: climate change policy options for Africa** (eds.) Okoth-Ogendo,H.W.O. and Ojwang,J.B., ACTS Press/SEI, Nairobi, Kenya, 264pp.
- B13** CCIRG (co-author) (1996) **Review of the potential effects of climate change in the UK**, HMSO, London, 247pp.

- B14** Hulme,M. (1996) Climatic change within the period of meteorological records pp.88-102 in, **The physical geography of Africa** (eds.) Adams,W.M., Goudie,A.S. and Orme,A.R., Oxford University Press, Oxford, UK, 348pp.
- B15** Barrow,E.M. and Hulme,M. (1997) Describing the surface climate of the British Isles pp.33-62 in, **Climates of the British Isles: present, past and future** (eds.) Hulme,M. and Barrow,E.M., Routledge, London, UK, 454pp.
- B16** Hulme,M. and Barrow,E.M. (1997) Introducing climate change pp.1-7 in, **Climates of the British Isles: present, past and future** (eds.) Hulme,M. and Barrow,E.M., Routledge, London, UK, 454pp.
- B17** Hulme,M. and Barrow,E.M. (eds.) (1997) **Climates of The British Isles: present, past and future** Routledge, London, 454pp.
- B18** Jones,P.D. and Hulme,M. (1997) The changing temperature of 'Central England' pp.173-195 in, **Climates of the British Isles: present, past and future** (eds.) Hulme,M. and Barrow,E.M., Routledge, London, UK, 454pp.
- B19** Raper,S.C.B., Viner,D., Hulme,M. and Barrow,E.M. (1997) Global warming and the British Isles pp.326-339 in, **Climates of the British Isles: present, past and future** (eds.) Hulme,M. and Barrow,E.M., Routledge, London, UK, 454pp.
- B20** Hulme,M. (1998) The sensitivity of Sahel rainfall to global warming: implications for scenario analysis of future climate change impact pp. 429-436 in, **Water resources variability in Africa during the 20th century**, Servat,E., Hughes,D., Fritsch,J.M. and Hulme,M. (eds.), IAHS Publication No.252, Wallingford, UK, 462pp.
- B21** Servat,E., Hughes,D., Fritsch,J.M. and Hulme,M. (eds.) (1998) **Water resources variability in Africa during the 20th century**, IAHS Publication No.252, Wallingford, UK, 462pp.
- B22** Smith,J.B. and Hulme,M. (1998) Climate change scenarios Chapter 3 in, **Handbook on methods of climate change impacts assessment and adaptation strategies** (ed.) Feenstra,J., Burton,I., Smith,J.B. and Tol,R.S.J., UNEP/IES, Version 2.0, October, Amsterdam
- B23** Carter,T., Hulme,M. and Viner,D. (eds.) (1999) **Representing uncertainty in climate change scenarios and impact studies** Proceedings of the ECLAT-2 Helsinki Workshop, 14-16 April, 1999, Climatic Research Unit, Norwich, UK, 128pp.
- B24** Hulme,M. (1999) Climate change pp.406-436 in, **The Changing Geography of the UK** (eds.) Gardiner,V. and Matthews,H., Routledge, London, 528pp.
- B25** Hulme,M. and Carter,T.R. (1999) Representing uncertainty in climate change scenarios and impact studies pp.11-37 in, **Representing uncertainty in climate change scenarios and impact studies, proceedings of the ECLAT-2 Helsinki Workshop, 14-16 April, 1999** (eds.) Carter,T., Hulme,M. and Viner,D., Climatic Research Unit, Norwich, UK, 128pp.
- B26** Beersma,J., Agnew,M., Viner,D. and Hulme,M. (eds.) (2000) **Climate scenarios for water-related and coastal impacts** Proceedings of the ECLAT-2 KNMI Workshop, 10-12 May 2000, Climatic Research Unit, UEA, Norwich, UK, 144pp.
- B27** Cramer,W., Doherty,R., Hulme,M. and Viner,D. (eds.) (2000) **Climate scenarios for agricultural, forest and ecosystem impacts** Proceedings of the ECLAT-2 Potsdam Workshop, 13-15 October 1999, Climatic Research Unit, UEA, Norwich, UK, 120pp.

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