SUMMARY CURRICULUM VITAE

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Personal

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Date of Birth: 12 July 1955 Nationality: Australian

Education and Awards

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1976	B.Sc.(Hons), First Class, in Applied Mathematics, Monash University, Australia
1976	Awarded a Shell Australia Science and Engineering Graduate Scholarship for study in England
1980	Ph.D. in Meteorology, University of Reading, thesis "Stationary planetary waves in the atmosphere"
1981	Awarded the Meteorology Prize from the University of Reading for session 1980-81
1993	Received the Meisinger Award from the American Meteorological Society, with citation ``for contributions to the understanding of the role of Rossby wave propagation in atmospheric teleconnections and to greenhouse climate change research".

- Received the Norbert Gerbier MUMM Prize from the World Meteorological Organization for the paper "A search for human influences on the thermal structure of the atmosphere", *Nature*, **382**, 39-46 (1996) with B.D. Santer, and 11 others.
- 1999 Elected a Fellow of the American Meteorological Society in recognition of outstanding contributions to the atmospheric and related sciences during a substantial period of years.
- 2000 Presented the R.H. Clarke Lecture to the Australian Meteorological and Oceanographic Society.
- Selected as a Gary Comer Science and Education Foundation Mentor and awarded \$330,000 over three years for climate changed research.

Appointments

Jan.,1981-Feb.,1983	Postdoctoral Research Fellow, CSIRO ANMRC, Melbourne, Australia.
March, 1983-2001	Lecturer, Senior Lecturer, Reader, Dept. of Mathematics, Monash University, Australia
July,1993-Sept.,1994	Acting Professor and Interim Director, Cooperative Research Centre (CRC) for Southern Hemisphere Meteorology, Monash University, Australia.
Sep, 1995–Sep, 2000	Director, CRC for S.H. Meteorology and Professorial Fellow, Monash University
2001–2002	Professor of Meteorology and Head, School of Math. Sciences, Monash University
Jan., 2003-present	Williams Chair and Professor of Meteorology, School of Meteorology, University of Oklahoma, USA

Recent Professional Activities

1998-2001	Coordinating lead author, Climate change detection and attribution, Working Group I, IPCC Third Assessment Report <i>Climate Change 2001: The Scientific Basis</i>
1997-2002	Member, Scientific Steering Group, WCRP Project "Stratospheric Processes and their Role in Climate" (SPARC)
1998-present	Member, WMO/CLIVAR Expert Team on Climate Change Detection
2002-present	Member, Council, American Meteorological Society
2003-present	Member, US National Research Council Climate Research Committee
2003-present	Member, UCAR University Relations Committee
2004	Chair, National Research Council Committee on Review of the US CLIVAR Project Office

Recent Publications (2002-2004)

- Karoly, D.J., and K. Braganza (2004) Attribution of recent temperature changes in the Australian region. *J. Climate*, in press.
- Braganza, K., D.J. Karoly and J.M. Arblaster (2004) Diurnal temperature range as an index of global climate change during the 20th century. *Geophys. Res. Lett.*, in press.
- Braganza, K., D.J. Karoly, A.C. Hirst, P. Stott, R.J. Stouffer, and S.F.B. Tett (2003) Simple indices of global climate variability and change: Part II Attribution of climate change during the 20th century. *Climate Dynamics*, in press.
- Randel, W., P. Udelhofen, E. Fleming, M Gelman, M. Geller, K. Hamilton, D. Karoly, and 11 coauthors (2004) The SPARC intercomparison of middle-atmosphere climatologies. *J. Climate*, **17**, 986-1003.
- Karoly, D.J., K. Braganza, P.A. Stott, J.M. Arblaster, G.A. Meehl, A.J. Broccoli and K.W. Dixon (2003) Detection of a human influence on North American climate. *Science*, **302**, 1200-1203.
- Karoly, D.J. (2003) Ozone and climate change. Science, 302, 236-237.
- Cai, W., P.H. Whetton, and D.J. Karoly (2003) The response of the Antarctic Oscillation to increasing and stabilized atmospheric CO₂. *J. Climate*, **16**, 1525-1538.
- Grainger, S., and D.J. Karoly (2003) A transport model study of the breakup of the Antarctic ozone hole in November 2000. *Geophys. Res. Lett.*, **30**, 1368, doi: 10.1029/2002GL016494.
- Li, S., E.C. Cordero and D.J. Karoly (2003) Three-dimensional simulations of the springtime breakup of the Antarctic ozone hole, *Aust. Met. Mag.*, **52**, 1-9.
- Chane-Ming, F., F.M. Guest and D.J. Karoly (2003) Gravity waves observed in temperature, wind and ozone data over Macquarie Island, *Aust. Met. Mag.*, **52**, 11-21.
- Karoly, D.J., J.F.B. Mitchell, M.R. Allen, G. Hegerl, F. Zwiers, and J. Marengo (2003) Comment on Soon et al. (2001) Modeling climatic effects of anthropogenic carbon dioxide emissions: unknowns and uncertainties. *Clim. Res.*, **24**, 91-92.
- Karoly, D., J. Risbey, A. Reynolds, and K. Braganza (2003) Global warming contributes to Australia's worst drought. *Australasian Science*, April 2003 issue, 14-17.
- Braganza, K., D.J. Karoly, A.C. Hirst, M.E. Mann, P. Stott, R.J. Stouffer, and S.F.B. Tett (2003) Simple indices of global climate variability and change: Part I Variability and correlation structure. *Climate Dynamics*, **20**, 491-502. DOI: 10.1007/s00382-002-0286-0.
- Karoly, D.J., and G. Teggart (2002) *Climate change science: An update of current understanding and uncertainties*, J. Ellis and J. Zillman Eds., Aust. Academy of Tech. Sciences and Eng., Parkville, Vic., 7pp.
- Li, S., E.C. Cordero and D.J. Karoly (2002) Transport out of the Antarctic polar vortex from a three-dimensional transport model. *J. Geophys. Res.*, **107** (D11), 4132, DOI: 10.1029/2001JD000508.