

## SUMMARY CURRICULUM VITAE

(December, 2005)

### Personal

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Date of Birth: 12 July 1955 Nationality: Australian

### Education and Awards

- 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".
- 1998 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.
- 2004 Selected as a Gary Comer Science and Education Foundation Mentor and awarded \$330,000 over three years to support postdoctoral fellows in climate change 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

- 2002-present Member, WMO/CLIVAR Expert Team on Climate Change Detection, Monitoring and Indices
- 2003-present Member, US National Research Council Climate Research Committee
- 2003-present Member, UCAR University Relations Committee
- 2004 Chair, National Research Council Comm. on Review of the US CLIVAR Project Office
- 2004-present Lead author, “Assessment of observed changes and responses in natural and managed systems”, Working Group II, IPCC Fourth Assessment Report *Climate Change 2007: Impacts, Adaptation and Vulnerability*
- 2005-present Review Editor, “Understanding and attributing climate change”, Working Group I, IPCC Fourth Assessment Report *Climate Change 2007: The Physical Science Basis*
- 2005-present Member, WCRP/CLIVAR Working Group on Coupled Modeling

### Recent Publications (2004-2005)

- Karoly, D.J., and Q. Wu (2005) Detection of regional surface temperature trends. *J. Climate*, **18**, 4337–4343.
- Karoly, D.J., and K. Braganza (2005) A new approach to detection of anthropogenic temperature changes in the Australian region. *Meteor. Atmos. Phys.*, **89**, 57-67.
- Karoly, D.J., and K. Braganza (2005) Attribution of recent temperature changes in the Australian region. *J. Climate*, **18**, 457-464.
- Vincent, L.A., T.C. Peterson, V.R. Barros, M.B. Marino, M. Rusticucci, G. Carrasco, E. Ramirez, L.M. Alves, T. Ambrizzi, M.A. Berlato, A.M. Grimm, J.A. Marengo, L. Molion, D.F. Moncunill, E. Rebello, Y.M.T. Anunciação, J. Quintana, J.L. Santos, J. Baez, G. Coronel, J. Garcia, I. Trebejo, M. Bidegain, M.R. Haylock, D. Karoly, (2005) Observed trends in indices of daily temperature extremes in South America 1960-2000. *J. Climate*, **18**, 5011-5023.
- Braganza, K., D.J. Karoly and J.M. Arblaster (2004) Diurnal temperature range as an index of global climate change during the twentieth century. *Geophys. Res. Lett.*, **31**, L13217, doi:10.1029/2004GL019998.
- Braganza, K., D.J. Karoly, A.C. Hirst, P. Stott, R.J. Stouffer, and S.F.B. Tett (2004) Simple indices of global climate variability and change: Part II – Attribution of climate change during the 20<sup>th</sup> century. *Climate Dynamics*, **22**, 823-838.
- National Research Council (2004) *Review of the US CLIVAR Project Office*, (D.J. Karoly Chair), Nat. Acad. Press, 36 pp.
- The Australian Climate Group (2004) *Climate change - Solutions for Australia*. (Report by A. Coleman, O. Hoegh-Guldberg, D. Karoly, I. Lowe, A. McMichael, C. Mitchell, G. Pearman, P. Scaife, and A. Reynolds) WWF Australia, Sydney, Australia, 35 pp.
- 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.