

PUBLICATIONS 1999-2000

The following is a list of Bureau of Meteorology publications and publications by Bureau staff for 1999-2000. A charge applies to those publications marked **.

1. Reports

- Bureau of Meteorology. 1999. *Annual Report 1998-99*. AusInfo, Canberra, 213 pp.
- Bureau of Meteorology. 1999. *Climate Activities in Australia 1999*. Bureau of Meteorology, Melbourne, 193 pp.
- Bureau of Meteorology. 1999. *Budget and Program 1999-2000*. Bureau of Meteorology, Melbourne, 396 pp.
- Bureau of Meteorology. 1999. *Researching Sky and Sea*. Bureau of Meteorology, Melbourne, 36pp.
- Bureau of Meteorology. 1999. A very special family: memories of the Bureau of Meteorology 1946 to 1962. Gibbs, W.J., *Metarch Papers No. 13*, Bureau of Meteorology, Melbourne, 259 pp.
- Bureau of Meteorology. 1999. Stories of the Bureau's radio technical officers from 1948. Clarke, R.W., *Metarch Papers No. 14*, Bureau of Meteorology, Melbourne, 113 pp.
- Bureau of Meteorology. 1999. Correcting automatic weather station mean sea level pressures for atmospheric tides. Gibbs, S. and Brooks, B., *Meteorological Note 216*, Bureau of Meteorology, Melbourne, 9 pp.
- Bureau of Meteorology. 1999. Statistically based weather forecast guidance. Stern, H., *Meteorological Study No. 43*, Bureau of Meteorology, Melbourne, 215 pp.
- Bureau of Meteorology. 1999. *BMRC Review - Report of the Review Committee*. Bureau of Meteorology, Melbourne, 44 pp.
- Bureau of Meteorology. 2000. A case study of a wet microburst and possible gustnado event on 5 February 1998, at Alice Springs, Central Australia. Allen, D. and Strickland, P., *Meteorological Note 217*, Bureau of Meteorology, Melbourne, 14 pp.
- Bureau of Meteorology Hydrology Unit. 1999. Rainfall antecedent to large and extreme rainfall bursts over southeast Australia. Meighen, J. and Minty, L.J., *Hydrology Report Series No. 6*, Bureau of Meteorology, Melbourne, 54 pp.
- Bureau of Meteorology Research Centre. 1999. The assimilation of ERS-2 altimeter data into the Australian wave model. Greenslade, D., *BMRC Research Report No. 73*, Bureau of Meteorology, Melbourne, 22 pp.
- Bureau of Meteorology Research Centre. 1999. A triply-nested movable mesh tropical cyclone model with explicit cloud microphysics - (TCM3). Wang, Y., *BMRC Research Report No. 74*, Bureau of Meteorology, Melbourne, 81 pp.
- Bureau of Meteorology Research Centre. 1999. Parallel computing in meteorology and oceanography: abstracts of presentations at the eleventh annual BMRC Modelling Workshop. Jasper, J.D. and Meighen, P.J. (eds), *BMRC Research Report No. 75*, Bureau of Meteorology, Melbourne, 166 pp.
- Bureau of Meteorology Research Centre. 2000. A synoptic/diagnostic study of the 1998 Sydney-Hobart Yacht Race storm: a warm-cored extratropical cyclone. Mills, G.A., *BMRC Research Report No. 76*, Bureau of Meteorology, Melbourne, 65 pp.

Bureau of Meteorology Research Centre. 2000. Seasonal predictions with a coupled global ocean-atmosphere model. Wang, G., Kleeman, R., Smith, N. and Tseitkin, F., *BMRC Research Report No. 77*, Bureau of Meteorology, Melbourne, 34 pp.

Bureau of Meteorology Research Centre. 2000. A downscaling procedure for Australia. Timbal, B. and McAvaney, B.J., *BMRC Research Report No. 78*, Bureau of Meteorology, Melbourne, 40 pp.

2. Books and Booklets

Books and booklets dealing with Australian weather and climate and the operations and services of the Bureau are published by the Bureau and updated as necessary. Approximately 30 titles are current. The following new and revised material was published in 1999-2000.

Australian Meteorological Magazine. Quarterly journal, annual subscription, ISSN 0004 9743, \$43.00, AusInfo.**

Bureau of Meteorology. 1999. *Climate of Sydney – The Olympic City*. ISBN 0 642 32045 4, \$11.95, Bureau of Meteorology, Melbourne, 50 pp.**

Bureau of Meteorology. 1999. *Certified Agreement 2000–2001*. Bureau of Meteorology, Melbourne, 80 pp.

Bureau of Meteorology. 1999. *Strategic Action Plan - For the Development of Meteorology in the Pacific Region 2000–2009*. Bureau of Meteorology, Melbourne, 45 pp.

Bureau of Meteorology. 2000. *The World Meteorological Organization, a Model of International Cooperation*. Bureau of Meteorology, Melbourne, 24 pp.

3. Pamphlets and Newsletters

The Bureau maintained a set of more

than 30 pamphlets covering fundamental and topical areas of meteorology, promoting the Bureau's services and providing basic corporate information. The following new pamphlets were published in 1999-2000.

Meteograms, 1999.

Weather on the Net/on Your Fax, 1999.

Marine Weather Services, 1999.

Australian Weather Extremes, 1999.

Employee Assistance Program (EAP), 1999.

Bureau of Meteorology Budget and Program 1999–2000, 1999.

Bureau of Meteorology Corporate Strategy 1999–2004, 1999.

Flood Warning Services, 2000.

Sydney Weather (during the Olympic and Paralympic Games), 2000.

Heads of Marine Agencies (HOMA), 2000.

4. Scientific Papers and Books

Articles listed were authored wholly or jointly by staff of the Bureau of Meteorology and published during calendar year 1999.

Adams, N., Hutchinson, H.A. and Hart, T.L. 1999. An analysis of TOVS data during the FROST special observing periods. *Aust. Met. Mag.* June Special Edition, 15-24.

Ayers, G.P., Gillett, R.W., Cainey, J.M. and Dick, A.L. 1999. Chloride and bromide loss from sea-salt particles in Southern Ocean air. *J. Atmos. Chem.* 33, 299-319.

Bate, P.W. 1999. The tropical circulation in the Australian/Asian region - May to October 1998. *Aust. Met. Mag.* 48, 45-54.

Beard, G.S. 1999. Seasonal climate summary southern hemisphere (spring 1998): a weak, but intensifying, cold event (La Niña) in the Pacific Basin. *Aust. Met. Mag.* 48, 133-140.

Collins, D.A. and Della-Marta, P.M. 1999. Annual climate summary 1998: Australia's warmest year on record.

- Aust. Met. Mag.* 48, 273-283.
- Collins, D.A., Johnson, S., Plummer, N., Brewster, A.K. and Kuleshov, Y. 1999. Re-visiting Tasmania's Reference Climate Stations with a semi-objective network selection scheme. *Aust. Met. Mag.* 48, 111-122.
- Collins, D.A. 1999. Seasonal climate summary southern hemisphere (winter 1998): transition toward a cool episode (La Niña). *Aust. Met. Mag.* 48, 55-62.
- Connor, G.J. 1999. An exploratory study into synoptic classification techniques for statistical tropical precipitation forecasting. *Aust. Met. Mag.* 48, 241-253.
- Deslandes, R., Reeder, M.J. and Mills, G.A. 1999. Synoptic analyses of a subtropical cold front observed during the 1991 Central Australian Fronts Experiment. *Aust. Met. Mag.* 48, 87-110.
- Ebert, E.E. and Weymouth, G.T. 1999. Incorporating satellite observations of "no rain" in an Australian daily rainfall analysis. *J. Appl. Meteor.* 38, 44-56.
- Folland, C.K., Miller, C., Bader, D., Crowe, M., Jones, P.D., Plummer, N., Richman, M., Parker, D.E., Rogers, J. and Scholefield, P. 1999. Workshop on Indices and Indicators for Climate Extremes: Asheville, NC, USA, 3-6 June 1997. Breakout Group C: Temperature indices for climate extremes. *Climatic Change.* 42, 31-43.
- Frederiksen, C.S., Rowell, D.P., Balgovind, R.C. and Folland, C.K. 1999. Multidecadal simulations of Australian rainfall variability: the role of SSTs. *J. Climate.* 12, 357-379.
- Griffiths, D. 1999. Improved formula for the Drought Factor in McArthur's Forest Fire Danger Meter. *Aust. Forestry.* 62, 202-206.
- Guest, C.S., Willson, K., Woodward, A.J., Hennessy, K.J., Kalkstein, L.S., Skinner, C. and McMichael, A.J. 1999. Climate and mortality in Australia: retrospective study, 1979-1990, and predicted impacts in five major cities in 2030. *Climate Res.* 13, 1-15.
- Handmer, J., Keys, C. and Elliott, J.F. 1999. Achieving lasting change in multi-organizational tasks: the case of flood warnings in Australia. *Appl. Geogr.* 19, 179-197.
- Hanstrum, B.N., Reader, G. and Bate, P.W. 1999. The South Pacific and southeast Indian Ocean tropical cyclone season 1996-97. *Aust. Met. Mag.* 48, 197-210.
- Hutchinson, H.A., Dixon, S., Adams, N., Jacka, K.J., Pendlebury, S., Marsh, L., Cowled, L.H., Phillpot, H.R., Pook, M.J. and Turner, J. 1999. On the reanalysis of Southern Hemisphere charts for the FROST Project. *Weath. Forecasting.* 14, 909-919.
- Jacka, K.J. 1999. An impact study involving ERS-1 scatterometer wind data - implications for the 'FROST' project. *Aust. Met. Mag.* June Special Edition, 25-34.
- Jones, D.A. 1999. Characteristics of Australian land surface temperature variability. *Theor. Appl. Climatol.* 63, 11-31.
- Joussaume, S., Taylor, K.E., Braconnot, P., Mitchell, J.F.B., Kutzbach, J.E., Harrison, S.P., Prentice, I.C., Broccoli, A.J., Abe-Ouchi, A., Bartlein, P.J., Bonfils, C., Dong, B., Guiot, J., Herterich, K., Hewitt, C.D., Jolly, D., Kim, J.W., Kislov, A., Kitoh, A., Loutre, M.F., Masson, V., McAvaney, B.J., McFarlane, N., de Noblet, N., Peltier, W.R., Peterschmitt, J.Y., Pollard, D., Rind, D., Royer, J.F., Schlesinger, M.E., Syktus, J., Thompson, S., Valdes, P., Vettoretti, G., Webb, R.S. and Wyputta, U. 1999. Monsoon changes for 6000 years ago: Results of 18 simulations from the Paleoclimate Modeling Intercomparison Project (PMIP). *Geophys. Res. Lett.* 26, 859-862.
- Karl, T.R., Nicholls, N. and Ghazi, A. 1999. CLIVAR/GCOS/WMO Workshop on Indices and Indicators for Climate Extremes - Workshop Summary. *Climatic Change.* 42, 3-7.
- Kleeman, R., McCreary, J.P. Jr. and Klinger, B.A. 1999. A mechanism for generating ENSO decadal variability. *Geophys. Res.*

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- Kleeman, R. and Moore, A.M. 1999. A new method for determining the reliability of dynamical ENSO predictions. *Mon. Weath. Rev.* 127, 694-705.
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- May, P.T. and Rajopadhyaya, D.K. 1999. Vertical velocity characteristics of deep convection over Darwin, Australia. *Mon. Weath. Rev.* 127, 1056-1071.
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- Moore, A.M. and Kleeman, R. 1999. The nonnormal nature of El Niño and intraseasonal variability. *Jnl climate.* 12, 2965-2982.
- Moore, A.M. and Kleeman, R. 1999. Stochastic forcing of ENSO by the Intraseasonal Oscillation. *Jnl climate.* 12, 1199-1220.
- Nathan, R.J., Weinmann, P.E. and Minty, L.J. 1999. Estimation of the annual exceedance probability of Probable Maximum Precipitation in South East Australia. *Aust. J. Water Resour.* 3, 143-154.
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- Reeder, M.J., Adams, N. and Lane, T.P. 1999. Radiosonde observations of partially-trapped lee waves over Tasmania, Australia. *J. geophys Res.* **104(D14)**, 16,719-727.
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- Seaman, R.S. 1999. Quality control of Australian sea-level pressure observations. *Aust. Met. Mag.* **48**, 123-131.
- Shaik, H.A. and Bate, P.W. 1999. The tropical circulation in the Australian/Asian region - November 1998 to April 1999. *Aust. Met. Mag.* **48**, 211-222.
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- Skinner, T.C.L. and Leslie, L.M. 1999. Numerical prediction of the summertime ridge-trough system over north-eastern Australia. *Weath. Forecasting.* **14**, 306-325.
- Skinner, W. and Hart, T.L. 1999. Numerical prediction model performance summary January to March 1999. *Aust. Met. Mag.* **48**, 223-230.
- Skinner, W. and Thomas, D. 1999. Numerical prediction model performance summary April to June 1999. *Aust. Met. Mag.* **48**, 295-301.
- Skinner, W. and Hart, T.L. 1999. Numerical prediction model performance summary July to September 1998. *Aust. Met. Mag.* **48**, 63-68
- Skinner, W. and Hart, T.L. 1999. Numerical prediction model performance summary October to December 1998. *Aust. Met. Mag.* **48**, 141-146.
- Stern, H. 1999. An experiment to establish the limits of our predictive capability of weather elements for Melbourne. *Aust. Met. Mag.* **48**, 159-167.
- Sun, Z. and Rikus, L.J. 1999. Improved application of exponential sum fitting transmissions to inhomogenous atmosphere. *J. geophys. Res.* **104(D6)**, 6291-6303.
- Sun, Z. and Rikus, L.J. 1999. Parametrization of effective sizes of cirrus-cloud particles and its verification against observations. *Q. Jl R. met. Soc.* **125 (Part B)**, 3037-3055.
- Trewin, B.C. 1999. Seasonal climate summary southern hemisphere (summer 1998/99): a weak cold event (La Niña) in the Pacific Basin. *Aust. Met. Mag.* **48**, 285-293.
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- Weymouth, G.T. and Le Marshall, J.F. 1999. An operational system to estimate global solar exposure over the Australian

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- Zillman, J.W. 1999. Meteorology and oceanography in the twenty-first century. *Bull. Aust. Met. Oceanog. Soc.* 12, 28-34.
- Zillman, J.W. 1999. Message from the President of WMO, Dr John W. Zillman. *Bull. WMO*, 48, 107-115.
- Zillman, J.W. 1999. Thirteenth World Meteorological Congress. *ATSE Focus*. 108, 30-33.
- Zillman, J.W. 1999. Thirteenth World Meteorological Congress. *The Physicist*. 36, 5, 183.
- Zillman, J.W. 1999. The World Conference on Science. *ATSE Focus*. 109, 9-15.

5. Articles

- Barrell, S.L. and Mitchell, C.D. 1999. A report on science issues at the Fourth Session of the Conference of the Parties to the UN Framework Convention on Climate Change, Buenos Aires, 2-13 November 1998. *Bull. Aust. Met. Oceanog. Soc.* 12, 11-13.
- Barrell, S.L. 1999. Science issues at COP4. *Climate Change Newsletter*. 11, 5-7.
- Chambers, L.E. and Drosowsky, W. 1999. Australian seasonal rainfall prediction using near-global sea surface tempera-

6. Posters and Charts

- Cloud Chart, 2000.*
The World Meteorological Organization, a Model of International Cooperation, 2000.