

PUBLICATIONS 1998-99

The following is a list of Bureau of Meteorology publications and publications by Bureau staff for 1998-99. A charge applies to those publications marked **.

1. Reports

- Bureau of Meteorology. 1998. *Annual Report 1997-98*, AusInfo, Canberra, 188 pp.
- Bureau of Meteorology. 1998. The representativeness of wind data from Maatsuyker Island. Eulenstein, D., *Meteorological Note 213*, Bureau of Meteorology, Melbourne, 22pp.
- Bureau of Meteorology. 1998. Improved formulae for the McArthur forest fire danger meter. Griffiths, D., *Meteorological Note 214*, Bureau of Meteorology, Melbourne, 11pp.
- Bureau of Meteorology. 1999. Verification of the extended period temperature forecasts in Canberra. Davis, C., *Meteorological Note 215*, Bureau of Meteorology, Melbourne, 19pp.
- Bureau of Meteorology Hydrology Unit. 1998. Temporal distributions of large and extreme design rainfall bursts over southeast Australia. Meighen, J. and Minty, L., *Hydrology Report Series No. 5*, Bureau of Meteorology, Melbourne, 119pp.**
- Bureau of Meteorology Research Centre. 1998. The Bureau of Meteorology Research Centre (BMRC) portable automatic weather station : description and operation. Keenan, T., Kondratiev, V., Buis, G. and Christmas, R., *BMRC Research Report No. 68*, Bureau of Meteorology, Melbourne, 30pp.
- Bureau of Meteorology Research Centre. 1998. Coupled climate modelling: abstracts of presentations at the tenth annual BMRC modelling workshop, 12-13 October 1998. Meighen, P. (ed.), *BMRC Research Report No. 69*, Bureau of Meteorology, Melbourne, 96pp.
- Bureau of Meteorology Research Centre. 1998. The prediction of Australian land surface temperatures using near global sea surface temperature. Jones, D., *BMRC Research Report No. 70*, Bureau of Meteorology, Melbourne, 44pp.
- Bureau of Meteorology Research Centre. 1998. Comparison of model and observed surface winds (report prepared for AMSA project). Tang, Y., Smith, N. and Greenslade, D., *BMRC Research Report No. 71*, Bureau of Meteorology, Melbourne, 35pp.
- Bureau of Meteorology Research Centre. 1998. Radar characteristics of storms in the Sydney area. Potts, R., Keenan, T. and May, P., *BMRC Research Report No. 72*, Bureau of Meteorology, Melbourne, 26pp.
- Russell, J.M., Smit, H.G.J., Atkinson, R.J., Connor, B.J., Cunnold, D., Flynn, L.E., Froidevaux, L., Godin, S., Hollandsworth, S., Kerr, J.B., McPeters, R.D., Miller, A.J., Morris, G.A., Newchurch, M., Rusch, D.W., Thomason, L.W. and Wang, R.H.J. 1998. Ozone data quality. SPARC/IOC/GAW assessment of trends in the vertical distribution of ozone, edited by N.Harris, R.Hudson and C.Phillips. *SPARC Report no.1, WMO Ozone Research and Monitoring Project Report no.43*. Chapter 2, 97-188.
- Stewart, B.J. 1998. Australian application of the Intercomparison of Operational Hydrological Network Design

Techniques Project (HYNET). In: An intercomparison of hydrological network design technologies, *WMO Technical Reports in Hydrology and Water Resources no.62*, WMO/TD no.897. Appendix D, 1-11.

Stewart, B.J. 1998. Integrated Hydrological Networks. *WMO Technical Reports in Hydrology and Water Resources no.60*, WMO/TD no.891.

Stewart, B.J. 1998. An intercomparison of hydrological network design technologies. *WMO Technical Reports in Hydrology and Water Resources no.62*, WMO/TD no.897.

Stewart, B.J. 1998. Intercomparison of principal hydrometric instruments : Third phase - data telemetry and transmission systems. *WMO Technical Reports in Hydrology and Water Resources no.66*, WMO/TD no.893.

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 1998-99.

Australian Meteorological Magazine. Quarterly journal. **

Bureau of Meteorology. 1998. *Climate of the Northern Territory*. Bureau of Meteorology, Melbourne, 38pp. **

Bureau of Meteorology. 1998. *Climate of South Australia*. Bureau of Meteorology, Melbourne, 33pp. **

Bureau of Meteorology. 1998. *Disability Action Plan*. Bureau of Meteorology, Melbourne, 13pp. **

Bureau of Meteorology. 1998. *Weather, Climate and Health*. Bureau of Meteorology, Melbourne, 12pp. **

Bureau of Meteorology. 1998. Gascoyne-Murchison. *Climatic Survey*. AusInfo. 113pp.

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 1998-99.

Weather by fax, 1998.

Service Charter for the Community, 1998.

Farmweather, 1998.

Bureau of Meteorology Corporate Strategy 1998-2003, 1998.

Bureau of Meteorology Budget and Program 1998-2003, 1998.

Surviving cyclones, 1998.

Queensland forecast districts, 1999.

Long-term climate variability in Australia, 1999.

4. Scientific Papers and Books

Articles listed were authored wholly or jointly by staff of the Bureau of Meteorology and published during the calendar year 1998.

Anaman, K.A., Lellyett, S.C., Drake, L., Leigh, R.J., Henderson-Sellers, A., Noar, P.F., Sullivan, P.J. and Thampapillai, D.J. 1998. Benefits of meteorological services: evidence from recent research in Australia. *Meteorological Applications*, 5, 103-115.

Beard, G.S. 1998. Seasonal climate summary southern hemisphere (autumn 1997): rapid onset of a negative phase of the Southern Oscillation (El Nino). *Aust. Met. Mag.*, 47, 55-62.

Boers, R., Krummel, P.B., Siems, S.T. and Hess, G.D. 1998. Thermodynamic structure and entrainment of stratocumulus over the Southern Ocean. *J. geophys. Res.*, 103, 16637-16650.

Broadbridge, L.W. and Hanstrum, B.N. 1998. The relationship between tropical cyclones near Western Australia and the

- Southern Oscillation Index. *Aust. Met. Mag.*, 47, 183-189.
- Buckley, B.W. and Leslie, L.M. 1998. High resolution numerical simulation of Tropical Cyclone Drena undergoing extra-tropical transition. *Met. Atmos. Phys.*, 65, 207-222.
- Callaghan, J. and Smith, R.K. 1998. The relationship between maximum surface wind speeds and central pressure in tropical cyclones. *Aust. Met. Mag.*, 47, 191-202.
- Casey, T. 1998. Assessment of a seasonal forecast model. *Aust. Met. Mag.*, 47, 103-111.
- Cleland, S.J. 1998. The tropical circulation in the Australian/Asian region - May to October 1997. *Aust. Met. Mag.*, 47, 71-81.
- Cleland, S.J. 1998. The tropical circulation in the Australian/Asian region - November 1997 to April 1998. *Aust. Met. Mag.*, 47, 243-252.
- Connor, G.J. and Bonell, M. 1998. Air mass and dynamic parameters affecting trade wind precipitation on the northeast Queensland tropical coast. *Intl J. Climatol.*, 18, 1357-1372.
- Courtney, J.B. 1998. Seasonal climate summary southern hemisphere (autumn 1998): decline of a warm episode (El Nino). *Aust. Met. Mag.*, 47, 339-346.
- Davidson, N.E., Kurihara, K., Kato, T., Mills, G.A. and Puri, K. 1998. Dynamics and prediction of a mesoscale extreme rain event in the Baiu Front over Kyushu, Japan. *Mon. Weath. Rev.*, 126, 1608-1629.
- Davis, C.J. 1998. Meteorological aspects of snow. In: *Snow - a natural history; an uncertain future*, K. Green (ed.), Australian Alps Liaison Committee, Canberra. Chapter 1, 3-34.
- Draxler, R.R. and Hess, G.D. 1998. An overview of the HYSPLIT_4 modelling system for trajectories, dispersion and deposition. *Aust. Met. Mag.*, 47, 295-308.
- Ebert, E.E. and Manton, M.J. 1998. Performance of satellite rainfall estimation algorithms during TOGA COARE. *J. Atmos. Sci.*, 55, 1537-1557.
- Fawcett, R.J.B. 1998. Seasonal climate summary southern hemisphere (winter 1997): a developing El Nino event. *Aust. Met. Mag.*, 47, 151-158.
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- Gordon, A., Grace, W., Schwerdtfeger, P. and Byron-Scott, R. 1998. *Dynamic meteorology: a basic course*. London, Edward Arnold, 325 pp.
- Hainsworth, A.H.W., Dick, A.L. and Gras, J.L. 1998. Climatic context of the First Aerosol Characterization Experiment (ACE 1): A meteorological and chemical overview. *J. geophys. Res.*, 103, 16319-16340.
- Halpert, M. and Wright, W.J. 1998. Global circulation and ocean interaction. In: *The Global Climate System Review, December 1993-May 1996*. J.M.Nicholls (ed.), WMO No.856. Chapter 2, 14-21.
- Henderson-Sellers, A., Zhang, H., Berz, G., Emanuel, K., Gray, W.M., Landsea, C.W., Holland, G.J., Lighthill, J., Shieh, S.-L., Webster, P. and McGuffie, K. 1998. Tropical cyclones and global climate change: a post-IPCC assessment. *Bull. Am. met. Soc.*, 79, 19-39.
- Hess, G.D. and McAvaney, B.J. 1998. Realisability constraints for land-surface schemes. *Global and Planetary Change*, 19, 241-245.
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- trict rainfall totals using high resolution gridded analyses. *Aust. Met. Mag.*, *47*, 41-54.
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- Keenan, T.D., Kondratiev, V., Buis, G. and Christmas, R. 1998. A Portable Automatic Weather Station: description and operation. *Aust. Met. Mag.*, *47*, 355-359.
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- Leslie, L.M. and Speer, M.S. 1998. Reply: to Hamill on 'Short-range ensemble forecasting of explosive Australian east coast cyclogenesis'. *Weath. Forecasting*, *13*, 1208-1209.
- Leslie, L.M. and Speer, M.S. 1998. Short-range ensemble forecasting of explosive Australian east coast cyclogenesis. *Weath. Forecasting*, *13*, 822-832.
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- Yano, J.-I. and McBride, J.L. 1998. An Aquaplanet Monsoon. *J. Atmos. Sci.*, 55, 1373-1399.
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- Zillman, J.W. 1998. IPCC and Science-Policy Interface. *Symposium on Climate Variability and Change - Science and Industry*, October 1997. Proc. Royal Soc. of Vic., 109, 2, xli-xlvi.
- Zillman, J.W. 1998. Weather and climate. In: *Why? Scientists Answer Children's Questions*. Pat Long and John Phemister (eds.), ABC Books, 54-55 and 60-66.
- Zillman, J.W. 1998. Meteorological and hydrological early warning systems. Keynote Lecture, EWC-98, *International IDNDR Conference on Early Warning Systems for the Reduction of Natural Disasters*, Potsdam, September 7-11 1998, Proceedings, Springer-Verlag (in press)

5. Articles

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- Oceanographic Society, 11, 24-26.*
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6. Posters and Charts

- Weather, Climate and Health, 1999.*
Thunderstorms, 1999.