

Alan Baker

Summary of qualifications

Monash University

Masters Degree in Water Engineering 1992 to 1997

Thesis Title: Application of a combined AWBM/URBS Catchment Model for Flood Warning Purposes

James Cook University of North Queensland

Bachelor of Civil Engineering 1983 to 1986

Professional experience

July 2001 to present

Manager, Hydrology and Flood Warning Services
Victorian Regional Office, Bureau of Meteorology

Key areas of development and highlights include:

- Overall responsibility for managing the Victorian Flood Warning Services program;
- Continued involvement in the provision of flood warning services for the state as an operational flood forecaster;
- Responsibility for the development and implementation of annual Asset Replacement and Goods and Services budgets for Victoria;
- Implementation of Victorian Flood Warning Development Plan;
- Project management of the Victorian Flood Warning Priorities Project and subsequent development of the Victorian Flood Warning Development Plan (October 2005) on behalf of the Victorian Flood Warning Consultative Committee;
- Key Role in Total System Flood Warning Upgrades for the:
 - Goulburn Basin - Eildon to Seymour and Greater Shepparton
 - Wimmera Basin
 - Broken Creek Catchment
- Member of the State Flood Policy Committee;
- Secretary of the Victorian Flood Warning Consultative Committee (VFWCC);
- Special interest in the cooperative (Federal, State and Local Government) flood warning services.

February 1991 to July 2001

Senior Hydrologist

Victorian Regional Office, Bureau of Meteorology

- Flood warning operations shift leader with extensive experience in the provision of flood warning services.
- Extensive Project Management experience including project management of the Barwon and Ovens/King "Total" Flood Warning System upgrades. Also provided significant input to the flood warning system upgrades for Benalla, Euroa and Traralgon.
- Program Manager of Flood Forecasting technique development for Victoria, which included the development of numerous URBS run-off routing models and peak correlations. Management of AIFS HYMODEL platform.
- Extensive experience in the use of HYDSYS, HEC-RAS, URBS, RORB, AWBM and other hydrologic modelling software. Excellent knowledge of the Bureau of Meteorology's Australian Integrated

Forecasting System (AIFS) - including Hydrology specific modules HYMODEL and HYGIS.

- Significant input to the production of the Victorian Flood Warning Consultative Committee document "Arrangements for Flood Warning Services in Victoria".

Publications

Baker A., Cawood M. and McPherson N. (2006), "**A Review of Victorian Flood Warning Development Priorities – Looking into the Crystal Ball**", Proceedings of the 46th Floodplain Management Authorities of NSW Annual Conference, Lismore.

Baker A., Cawood M. and McPherson N. (2005), "**A Review of Victorian Flood Warning Development Priorities – Looking into the Crystal Ball**", Proceedings of the 4th Victorian Flood Management Conference, Goulburn-Broken Catchment Management Authority, Shepparton.

Kazazic E., Zimmermann P. and Baker A. (2005), "**You Can't Forecast Without Them – Flood Warning Data Collection Networks in Victoria**", Proceedings of the 4th Victorian Flood Management Conference, Goulburn-Broken Catchment Management Authority, Shepparton.

Baker A., Rasmussen P., Parkyn K., Catchlove R. and Kazazic E. (2005) "**A case study of the December 2003 Melbourne storm: The meteorology, rainfall intensity, and impacts of flash flooding**" Proceedings of the 29th Hydrology and Water Resources Symposium, ENGINEERS Australia, Canberra

Baker A., Rasmussen P., Parkyn K., Catchlove R. and Kazazic E. (2005) "**A case study of the December 2003 Melbourne storm: The meteorology, rainfall intensity, and impacts of flash flooding**" Proceedings of the 29th Hydrology and Water Resources Symposium, ENGINEERS Australia,

Baker A. and Kazazic E. (2003), "**ARRANGEMENTS for flood warning services in Victoria – looking to the future**", Proceedings of the 3rd Victorian Flood Management Conference, Wimmera Catchment Management Authority, Horsham.

Kazazic E., Baker A., Zimmermann P. and Songberg K. (1999) "**Traralgon's Flood Warning System – Community Access**", Proceedings of the 2nd Victorian Flood Management Conference, West Gippsland Catchment Management Authority, Traralgon.

Songberg K., Baker A., Kazazic E. and Zimmermann P. (1999), "**Tailoring Improvements to Your Flood Warning System**", Flood Management Conference 'Floodplains – Risk and Rewards' Wangaratta.

Additional professional activities

Lecture presentations on Flood Warning Services to Monash University Bachelor of Engineering final year undergraduate course. Included the provision of detailed course notes.

Presented Module on Flood Warning Services for the Hydrology and Hydraulics for Floodplain Managers Workshop Series at Monash University – November 2000. Included the provision of detailed course notes.