

## Testing design inputs from various ARR revision projects within a Monte Carlo framework

Melanie Loveridge<sup>1</sup>  
Mark Babister<sup>1</sup>  
Monique Retallick<sup>1</sup>  
Isabelle Testoni<sup>1</sup>

<sup>1</sup>WMAwater Pty Ltd  
Sydney, NSW 2000  
AUSTRALIA

E-mail: [loveridge@wmawater.com.au](mailto:loveridge@wmawater.com.au)

### *Abstract:*

*The Australian Rainfall and Runoff (ARR) revision projects have individually produced many of the design inputs required to perform a design flood estimation. Key design inputs developed as part of these projects include the Intensity Frequency Duration data across Australia (BoM, Project 1), median initial loss values with a standardised distribution across Australia (SKM, Project 6), and rainfall temporal pattern ensembles throughout Australia (WMAwater, Project 3). These projects have largely been undertaken independently. Whilst each project in its own right has improved the accuracy of previous estimates, to date they have not been collectively tested as inputs to design flood estimation. This paper investigates the combined use of these new design inputs to derive the flood frequency curves in a Monte Carlo environment.*

Due to production deadlines, this paper is currently unavailable.

The paper will become available on the local paper server and one the ARR website (<http://www.arr.org.au/>) at a later date