

Delta Science Program Brown Bag Series Presents

Accommodating Climate Change into Flood Estimation Practice: Hydro-informatics and the Australian Method

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Monday, August 27, 2012, 12 noon – 1 p.m.
Cal EPA Building, 1st Floor: Training Room 1
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Climate change will impact almost all aspects of the hydrological cycle. Modeling and observational studies are finding evidence of change at the planetary scale. In most cases, such changes support the expectation of an increase in flood risk although there is considerable uncertainty about the impacts of climate change on a range of flood variables.

The rapidly expanding body of information about climate change requires the production of new tools and methods for estimating design flood characteristics. Typically, this estimation process requires retrieving and analyzing available data. However, if actual data are not available, then it becomes necessary to generate realistic data that can be used instead (i.e. hydro-informatics).

Dr. James Ball will present an overview of tools (such as hydro-informatics) and methods (such as Australian Rainfall and Runoff, [ARR]) for design flood estimation and catchment simulations incorporating a rapidly expanding body of climate change information.