



## Stochastic drought generation

**Date:** 4 December 2015

**Time:** Start at 10:00 with coffee and tea available from 09:30

**Location:** Clearwater Court, Reading (RG1 8DB)

### Background

The 2010-2012 drought exposed potential weaknesses in the existing processes for assessing the impact of climate change on water resources and that perturbing the historic record of rainfall and evaporation may not adequately reflect how the system might respond to multi-year droughts likely to occur under climate change.

At this meeting we will provide an overview of the work underway to consider stochastic forecasting approaches, and the generation of artificial drought sequences that can be used to test the robustness of the existing system and new supply options to droughts worse than in the historical record.

### Agenda

*09:30 Coffee and tea*

10:00 Welcome and introduction to this work                      Chris Lambert, Thames Water

10:10 Approach, methodology and progress to date      Doug Hunt, Atkins

- Overview of the concept
- Drought weather generation
- Ranking of artificial drought sequences
- Development of "Drought libraries" for WARMs2 and groundwater modelling

*There will be a sandwich lunch ~ 12:00*

14:30 Next steps

15:00 Meeting close