# Interactive comment on "Reply to J. Vrugt's comment on "How effective and efficient are multiobjective evolutionary algorithms at hydrologic model calibration?"" by P. Reed et al. 

Anonymous Referee \#3

Received and published: 22 March 2007

The main comment made by Dr. Vrugt to the paper by Tang et al. (2006) is related to the initial sampling strategy employed in the comparison of the optimisation algorithms. He refers to some of his own work (Vrugt et al., 2003) where it has been demonstrated that the efficiency of the Multi-objective Shuffled Complex Evolution Metropolis (MOSCEM-UA) algorithm can be significantly improved by using an alternative sampling strategy. I find that this is an important issue in relation to the evaluation of optimisation procedures. However, in relation to the work by Tang et al. (2006) I don't think

```
Printer-friendly Version
``` this is, of course, speculative). An alternative sampling strategy as suggested by Vrugt et al. (2003) would be interesting to analyse, but in this case should be used in all
three algorithms to make a consistent and fair comparison. And since the alternative sampling strategy by Vrugt et al. (2003) basically reduces the size of the hypercube

HESSD
4, S106-S107, 2007

\section*{Interactive}

Comment
```

Full Screen / Esc

```
```

Printer-friendly Version

```
```

