HLWYM HEmails

From: Stuart Stothoff
Sent: Thursday, February 22, 2007 12:38 PM
To: Randall Fedors; Chandrika Manepally; Osvaldo Pensado
Subject: correlations

Folks

I had brought up some concerns regarding which parameter should be used for correlations relative to climate. After thinking about it, the concerns are easily allayed.

Basically there are 3 sample modes for pre-10-ky MAI. The mutually exclusive sample modes are (1) present-day MAI is sampled, (2) hydraulic uncertainty is sampled, and (3) MAI = MAP. After some time (10 ky), a long-term-average MAI is sampled.

We have already decided to correlate long-term-average MAI to present-day MAI with rho = 1. We can improve flexibility for correlations outside of UZFLOW by also correlating hydraulic uncertainty to present-day MAI with rho = 1, which makes no difference since no more than one of the two sampled parameters is actually used in a realization. So present-day MAI should become the "master" parameter that other parameters are correlated to. I will ensure that these correlations are enforced in the tpa.inp file.

The only caveat is that present-day MAI must have a non-zero range so that the correlation algorithm works correctly.

stu

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