allsim.txt

If a Monte Carlo simulation is chosen and configured so that all performance results will be written to file (`task WA` defined in optpar.txt), the results are written to *allsim.txt*, one simulation per row. The file is located in the resultdir folder given in info.txt. The format is similar to that of bestsims.txt. Missing values are indicated as -9999.

File content

The first row contains column headings. The first column is the ordinal number, and the second the value of the objective function on which the simulations are sorted. The closest following columns are a set of performance criteria (se table below and equations). When several criteria are given in info.txt to be used together as the objective function, the columns with performance information will be repeated once per such criteria.

The last columns contain parameter values. Only the parameters calibrated are included in the file. The heading of these columns is the parameter name. Thus for parameters that is not general parameters, several columns with the same name may occur. The number of those columns is the number of soil types, land uses etc. calibrated for that parameter.

The criterion value will be given if it has been calculated during the simulation. Which criterion that is calculated is determined by the choice of objective function. Criterion that can be deduced from the calculations of the objective function are saved, but no additional ones are calculated. Missing values are indicated with -9999. **Note:** If several RA criteria have been selected, only the last of them will be printed to file.

The columns of *allsim.txt*:

Column	Description
`NO`	row number
`CRIT`	value of objective function
`rr2`	regional Nash-Sutcliffe efficiency (data from all subbasins combined in one data series)
`sr2`	spatial Nash-Sutcliffe efficiency, calculated using annual means for all subbasins (requires at least 5 years and 5 subbasins with data) to form one data series to calculate the Nash-Sutcliffe efficiency on
`mr2`	average of Nash-Sutcliffe efficiencies for subbasins
`rmae`	regional mean absolute error (data from all subbasins combined in one data series)
`sre`	spatial relative bias (calculated on annual means for all subbasins)
`rre`	regional relative bias (data from all subbasins combined in one data series)
`mre`	average of the relative bias for all subbasins (Note: fraction, not %)
`rra`	regional RA, similar to regional NSE, RA is a Nash-Sutcliffe like criterion where the square in the Nash-Sutcliffe formula is exchanged with a coefficient value
`sra`	spatial RA, similar to spatial NSE, RA is a Nash-Sutcliffe like criterion where the square in the Nash-Sutcliffe formula is exchanged for a coefficient value
`mra`	average value of RA for subbasins, RA is a Nash-Sutcliffe like criterion where the square in the Nash-Sutcliffe formula is exchanged with a coefficient value
`tau`	average of Kendall's Tau value for subbasins

Column	Description
md2	median of Nash-Sutcliffe efficiency for subbasins
mda	median of all subbasins' RA (Nash-Sutcliffe like criteria where the square is exchanged with a coefficient value)
mrs	average of error in standard deviation for subbasins
mcc	Pearson correlation coefficient, average of all subbasins with observations
mdkg	median of Kling-Gupta efficiency for subbasins
akg	average of Kling-Gupta efficiency for subbasins
asckg	average of Kling-Gupta Efficiency rescaled to the interval [-1,1]
mar	average of absolute relative bias for subbasins (Note: fraction. not %)
mdnr	median of normalised RMSE for subbasins
mnw	average of Nash-Sutcliffe efficiencies adjusted for bias for subbasins
snr	spatial root mean square error
smb	spatial mean absolute scaled bias on natural log transformed values
numrc	number of data points included in calculation of regional criteria
nummc	number of areas (subbasins/outregions) which criteria is included in mean and median criteria calculations
parname	parameter(s) that has been calibrated (one or several columns)
jpop	population index in DEMC-simulation
igen	generation index in DEMC-simulation
iacc	acceptance code in DEMC-simulation (1=accepted)