subassX.txt

This is a file with an assessment of each subbasin's performance. The file is located in the resultdir folder. One file is printed for each performance criterion included in the objective function given in info.txt. X is the ordinal number of the performance criterion and the subbasin assessment is calculated for the same variables as that performance criterion. If more than nine criteria are included, the following are denoted by capital letters. Definitions of equations for calculating the criteria is found here.

When ensemble or sequence simulations are made, the results from simulations (I=1 ... n or I=sequence number>0) are written to files named subassX_00I.txt, where *n* is defined by num_ens in optpar.txt.

For the calculation of criterion for lake water stage, the combination of variables wcom and wstr are exchanged for the internal variables clwc and clws by the program. These variables are the water stages cleaned from w0ref reference level (clwc=wcom-w0ref, clws=wstr-w0ref). This makes the criterion calculation more accurate, but note that relative criteria, e.g. relative bias, are relative to the smaller cleaned water stage level.

The first row defines average period (0=timesteply, 1=daily, 2=weekly, 3=monthly, 4=yearly) used for calculation. This period corresponds to the setting meanperiod in info.txt. Variable names and unit are also listed on row one. The second row is column headings. Thereafter follow subbasins which has observations, one on each row. The data limitation is the same as that of the calibration criteria. Missing values are indicated as -9999.

Header	Unit	Description
SUBID	-	subbasin id (as defined in GeoData.txt)
NSE	-	Nash-Sutcliffe efficiency
CC	-	Pearson correlation coefficient (part 1 of Kling-Gupta efficiency)
RE(%)	%	relative bias in mean
RSDE(%)	%	relative bias in standard deviation
Sim	in first row	mean of simulated variable
Rec	in first row	mean of observed variable
SDSim	in first row	standard deviation of simulated variable
SDRec	in first row	standard deviation of observed variable
MAE	in first row	mean absolute error
RMSE	in first row	root mean square error
Bias	in first row	bias
SDE	in first row	bias of standard deviation
KGE	-	Kling-Gupta efficiency
KGESD	-	part 2 of Kling-Gupta efficiency (std-quotient)
KGEM	-	part 3 of Kling-Gupta efficiency (mean-quotient)
NRMSE	in first row	normalised root mean square error
NSEW	-	Nash-Sutcliffe efficiency adjusted for bias

The columns:

Example of subass1.txt:

Subbasin assessment. Criteria is calculated for period 1. Variables: rout, cout Unit: m3/s CC RE(%) RSDE(%) Sim Rec SDSim SDRec MAE SDE KGE KGESD KGEM NRMSE SUBID NSE Bias SDE RMSE 0.721 22.649 -68.38 112 0.507 0.058 0.047 0.068 0.1 0.07 0.011 -0.032 0.518 0.678 0.038 1.226 0.066 135 0.722 0.881 -20.802 0.398 0.308 0.389 0.409 0.407 0.146 0.214 -0.081 0.002 0.76 1.004 0.792 0.075