

simass.txt

This is a file with simulation assessment, summarising performance criteria over model domain. The file is located in the [resultdir](#) folder. The file contains values of most [performance criteria](#) of the selected variables in the objective function. Note: If several RA criteria have been selected, only the last of them will be printed to file. Not calculated criterion are indicated by -9999. All information from the simass-files can also be found in the [hyss_yymmddhhmm.log](#).

When ensemble or sequence simulations are made, the results from simulations ($l=1 \dots n$ or $l=\text{sequence number}>0$) are written to files named simassX_00l.txt, where n is defined by num_ens in [optpar.txt](#).

The following performance criteria may be calculated: corresponding code for info – description.
 Regional NSE: RR2 - regional Nash-Sutcliffe R2 (all data combined in one long time-series) Regional RA: RRA - regional Nash-Sutcliffe like criteria where the square is exchanged with a coefficient value
 Regional RE: RRE - regional relative error (all data combined in one long time-series) Regional MAE: - regional absolute error (all data combined in one long time-series) Average NSE: MR2 - average of all Nash-Sutcliffe R2s for all subbasins with observations Average RA: MRA - average value of subbasin values of Nash-Sutcliffe like criteria where the square is exchanged with a coefficient value Average RE: MRE - average of the relative errors for all subbasins (Note: fraction, not %) Average RSDE: MRS - error in standard deviation, average of all subbasins with observations Average CC: MCC - Pearson correlation coefficient, average of all subbasins with observations Average ARE: MAR - mean absolute of relative errors for all subbasins (Note: fraction, not %) Spatial NSE: SR2 - spatial R2 calculated using annual means for all subbasins (requires at least 5 years and 5 subbasins with data) Spatial RA: SRA - Spatial Nash-Sutcliffe like criteria where the square in the Nash-Sutcliffe formula is exchanged for a coefficient value Spatial RE: - spatial relative error calculated using annual means for all subbasins (requires at least 5 years and 5 subbasins with data) Kendalls Tau: TAU - average of Kendall's Tau value for all subbasins Median NSE: MD2 - median of Nash-Sutcliffe R2 for all subbasins with observations Median RA: MDA - median of all subbasins RA (Nash-Sutcliffe like criteria where the square is exchanged with a coefficient value) Median KGE: MKG - median of all subbasins Kling-Gupta Efficiency Median NRMSE: MNR - median of all subbasins normalised RMSE