reg_par.txt

The file is located in the modeldir folder. The file is used in the parameter regionalization method for the calculation of regional parameters as a linear funtion of a set of catchment descriptors. This is used when model option `regestimate` is set in info.txt. The file contains coefficients for the linear estimator for each group. Which catchments belong to which group is given in CatchGroup.txt. The catchment descriptors which are used in the stimator are given in CatchDes.txt.

The first row of the *reg_par.txt* file gives the number of regional parameters. Then follow two rows for each parameter for a given group of catchments. The first row of each parameter contains the coefficients and the second row the corresponding catchment descriptor to apply the coefficient to. Information for all parameters is given first for group one, then group two etc.

The following parameters are possible to estimate with regression: `lp`, `cevpam`, `cevpph`, `rivvel`, `damp`, `tcalt`, `tcelevadd`, `tempcorr`, `pcelevmax`, `pcelevadd`, `pcelevth`, `cevpcorr`, `rrcscorr`, `rrcs3`, `pcurain`, and `pcusnow`. For description of the parameters see par.txt.

The example below shows entries for regionalizing two parameters (`tcalt` and `cevpcorr`) in a model setup where there are three groups of catchments.

Example of a *reg_par.txt* file structure:

```
2
tcalt   0.6
tcalt   1
cevpcorr    0.1    -0.1    -0.2    0.3
cevpcorr    1    8    9    10
tcalt   0.6
tcalt   1
cevpcorr    0.1    0.0    -0.1    0.4
cevpcorr    1    8    9    10
tcalt   0.5
tcalt   1
cevpcorr    -0.1    0.3
cevpcorr    8    10
```