Outregions.txt

This file contains information about output regions. Output regions are used to average subbasin results to larger areas, e.g. grid squares. The average is calculated based on subbasin and weights defined in this file *Outregions.txt*. For example if you want to have the average snow over three subbasins you give them weight according to their area fraction of the region. If you want other region, e.g. only part of the subbasin area to be included, you give other weights. The regional average is calculated simply based on given weight and the subbasin value.

Outregions.txt is a tab-separated file located in the modeldir folder. Output regions are listed row-wise. The first row contains a column header with column names. Column names are not case-sensitive (max. 10 characters, no spaces). Columns with headings unknown to HYPE are skipped while reading the file, but must not longer than ten characters. Columns containing character strings, e.g. descriptive meta-data, must not exceed a length of 100 characters. A value must exist for every column and row, i.e. empty cells are not allowed. Set subid and weight to zero if the number of subbasins included are less for one or more regions.

Example of a *Outregions.txt* file:

```
outregid    xcoord    ycoord    subid_1    weight_1    subid_2    weight_2
subid_3    weight_3
1    5.5    4.4    748    0.5    22524    0.5    0    0
2    6.5    3.4    4869    0.4    22538    0.3    4790    0.3
```

Columns of the file is compiled to the table below.

Variable ID Requirement Description outregid mandatory output region id, must not over lap with subids xcoord optional coordinate ycoord optional coordinate zcoord optional coordinate, could be elevation above sea level

subid_# mandatory subid of included subbasins, # is numbered 1 and up, set zero if not used weight_# mandatory weight of the subid with corresponding #