



Output of variables for multi-run with climate scenarios/ realisations (flag_multi = 8, 9, 10)

For each year annual, monthly or/and weekly values are calculated. The monthly values are stored in arrays with 12 elements which are allocated in data modules **<outvar>_mon**. Analogously, the weekly values are stored in arrays with 52 elements. The first week starts with January 1 and the 53th element is filled with day number 365/ 366. Only 52 elements are used **<outvar>_week**.

Output

Different variants of output exist depending on the selected variable (for statistics see document 4C_statistical_evaluation.pdf):

- (1) **<sitename>_var_all.out**
For all variables the mean values over all years are calculated for all climate scenario realisations without statistics.
- (2) **<sitename>_<outvar>.out**
Statistical measures for the mean values of all realisations from (1)
- (3) **<sitename>_<outvar>_year.out**
Statistical measures for each year over all realisations
- (4) **<sitename>_<outvar>_mon.out**
Statistical measures for each month over all years and all realisations
- (5) **<sitename>_<outvar>_week.out**
Statistical measures for each week over all years and all realisations

Storage

The names of selected variables **<outvar>** are stored in the array `outvar`, the corresponding data are stored in the three-dimensional array `output_var` with the dimensions

number of output variable, site ip, year

For the case (4) and (5) the number of the output variables is stored in the first dimension in the array of monthly and weekly values.

flag_multi = 9, 10

For each run the results are stored in a multi-dimensional array:

- (1), (2), (3) `output_var` annual_value (**number of output variable, site ip, year**)
- (4) `output_varm` monthly_value (**number of output variable, site ip, year**)
- (5) `output_varw` weekly_value (**number of output variable, site ip, year, week**)

For the calculation of statistical measures over several realisations and climate scenarios the values are stored in multi-dimensional arrays:

- (2) `climszenres` (**number of output variable, site ip, climate scenario type, realization**)



(3) `climszenyear` (**number of output variable, site ip, climate scenario type, realization, year**)

(4) `climszenmon` (**number of output variable, site ip, climate scenario type, realization, month**)

(5) `climszenweek` (**number of output variable, site ip, climate scenario type, realization, week**)

(1), (2) mean value over all years from `output_var` is stored in `climszenres`

(3) Variable from `output_var` is stored for each year in `climszenyear`

(4) Mean value over all years is stored for each month from `output_varm` in `climszenmon`

(5) mean value over all years is stored for each week from `output_varw` in `climszenweek`