



## Test & examples for application of 4C open source

All used data are available in the gitlab repository. For each simulation you need at least two files in the input directory:

- species.par
- genereg.par

and the additional files given in the separate directories of the test cases.

### 1) Test **flag\_multi=1 without statistics**

site:

Pine stand site10

sim-files:

**test\_flaglimi.sim**

### 2) Test **flag\_multi=1 with measurement data analysis, statistics**

flag\_stat=1/ 2

site

a. site02, annual statistics

b. site01, daily statistics

sim-files:

**test\_stat\_ann.sim**

**test\_stat\_day.sim**

### 3) Test **flag\_multi=1 with management (flag\_mg=3) and WPM&SEA**

site10

sim-file:

**test\_wpm.sim**

additionally, it is required:

**sea\_prices.wpm**

### 4) Test **flag\_multi=2** (climate scenarios by variations of a given climate)

Site10

sim-file:

**test\_flagm2.sim**

### 5) Test **flag\_multi=6** (each year with the same stand initialization)

Site10

sim-file:

**test\_flagm6.sim**

### 6) Test **flag\_multi=8**

sim-file:



**test\_flagm8.sim**

**7) Test flag\_multi=8 short rotation coppice (SRC with Aspen)**

flag\_reg=15

sim-file: **test\_src.sim** (planting and harvesting of 3 stands with Aspen)

**8) Test flag\_multi=7 multi run**

sim-file: **test\_flagm7.sim**

**9) Test initialization with single tree data**

sim-file: **test\_ini.sim**

file with single tree data: pine\_age62.prn

for a guide see **manual\_initilization.pdf** in the repository

Recommendations:

- do not use a subdirectory for the output-files in the sim-file
- for a single tree data file you should answer the following questions with:

Y

2

2

2

input/pine\_age62.prn