**Instructions on how to run a case with BEPS\_PF**

1. Prepare the input data, including meteo, the LAI, the boundary data that describe the specific characteristics of the site, e.g. PFT, soil texture, as well as other parameters.
2. Modify the beps\_build\_nml.sh file, which is the namelist file that needs to specify the file names in respective case, as shown in Figure 1, Figure 2, Figure 3.

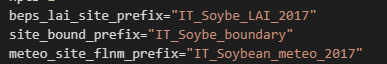


Figure 1 The name prefix for input files

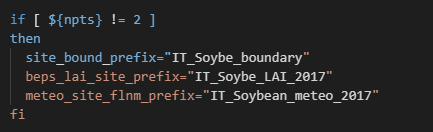


Figure 2 The prefix of site simulation file names

**C:\Users\lenovo\AppData\Local\Temp\enhtmlclip\Image(2).png**

Figure 3 The starting time for the input file

1. Set the file prepare\_case.sh, which controls the simulation duration, as shown in Figure 4.

**C:\Users\lenovo\AppData\Local\Temp\enhtmlclip\Image(3).png**

Figure 4 The set-up of simulation duration

1. Modify the code in driver.F90, in the call Create\_PF\_para(), with the PFT and soil texture indices, for example, in Figure 5, 12 is for the PFT—corn, 8 is for the soil texture.

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Figure 5 The index for PFT and soil texture in driver.F90 code

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Figure 6 The index for site PFT iteration in driver.F90 code

1. Modify the date for meteo. and observation data, in driver.F90 code, as shown in Figure 7, Figure 8.

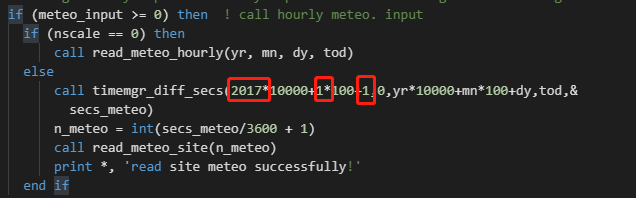


Figure 7 The set-up of meteo. data time

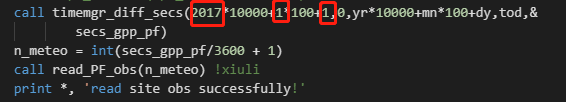


Figure 8 The set-up of meteo. data time

1. Run the case with “bld/prepare\_case.sh --org --expdir pkg\_test/bepsorg”

In the code, we provide the example for running the BEPS\_PF at one corn site. The running of the system at other sites needs to adapt above-mentioned codes and files.