Basic tests using abm_regular() and abm_variable()

Sasha D. Hafner

23 May, 2025 11:34

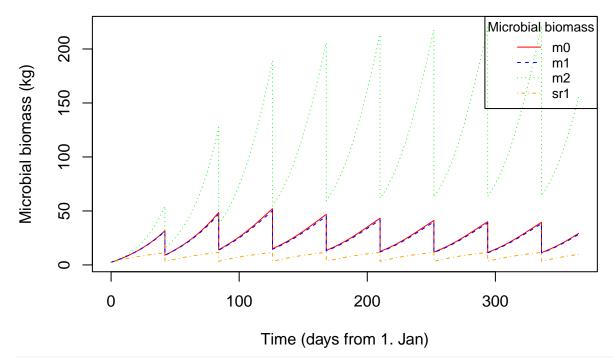
Overview

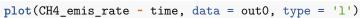
Objective is to test relatively basic operation of the abm() functions during simplification.

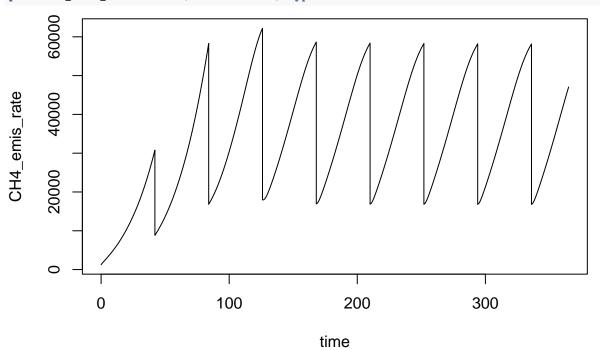
Prep

```
devtools::load_all()
## i Loading ABM
```

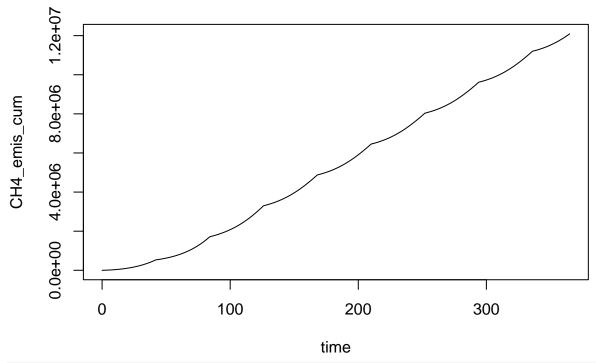
Case 1, defaults

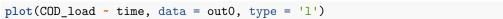


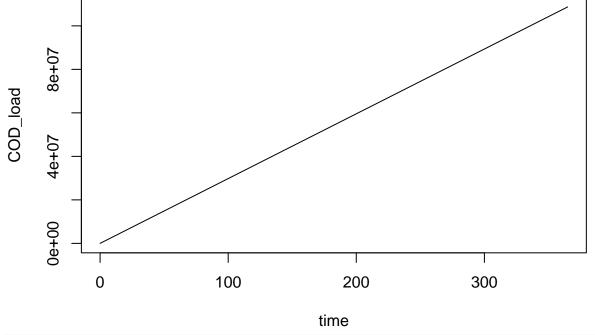




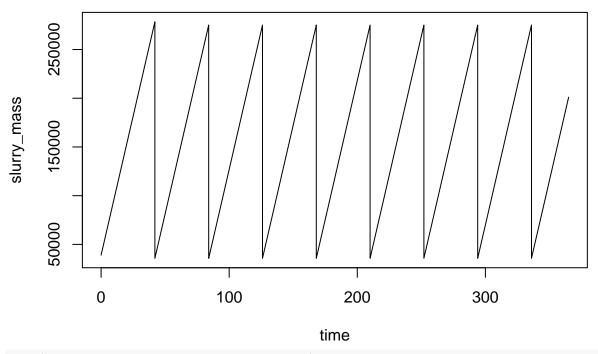
plot(CH4_emis_cum ~ time, data = out0, type = 'l')



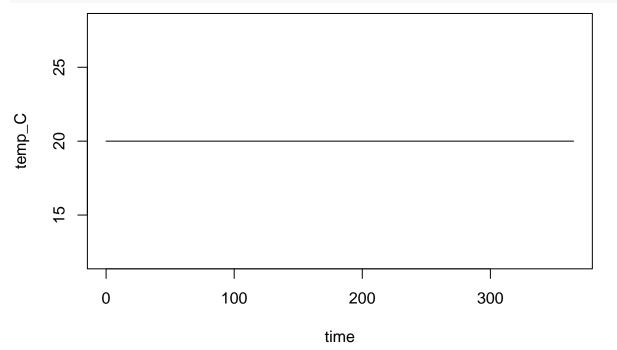




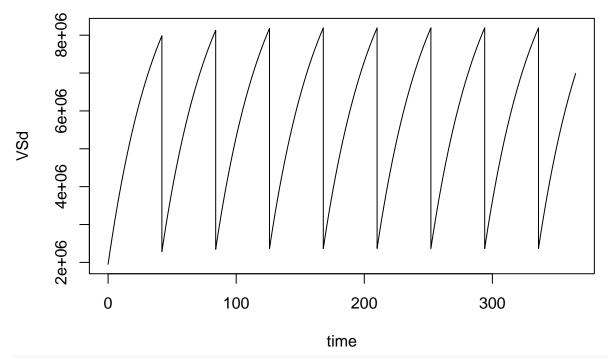
plot(slurry_mass ~ time, data = out0, type = '1')



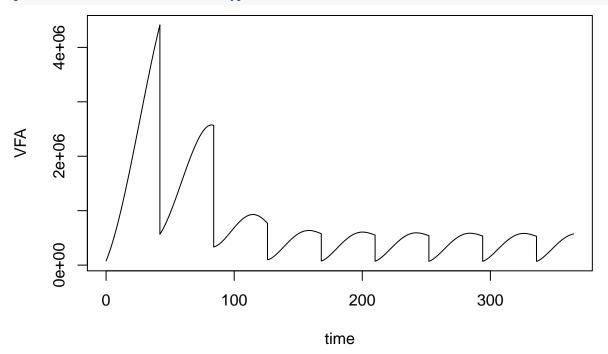




plot(VSd ~ time, data = out0, type = '1')



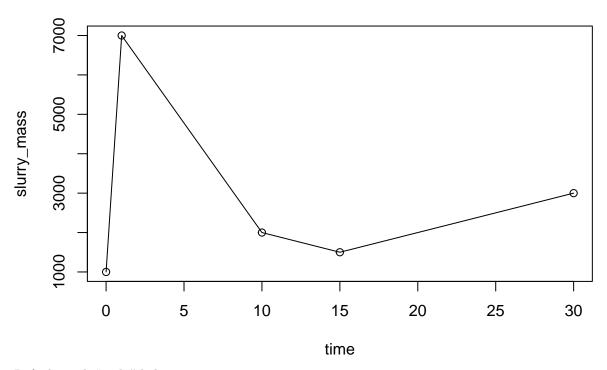
plot(VFA ~ time, data = out0, type = '1')



Slurry mass data.

```
slurry_mass_dat \leftarrow data.frame(time = c(0, 1, 10, 15, 30), slurry_mass = c(1000, 7000, 2000, 1500, 3000)

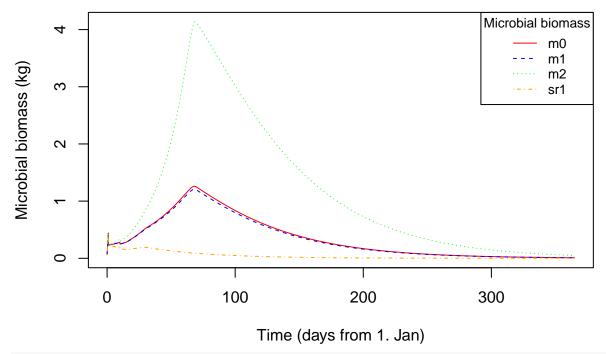
plot(slurry_mass \leftarrow time, data = slurry_mass_dat, type = 'o')
```

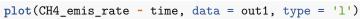


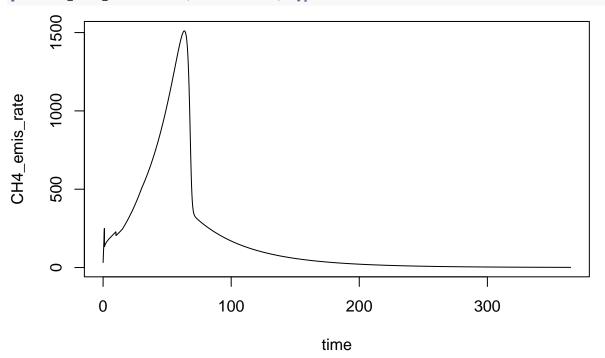
Default, with "early" behavior.

```
devtools::load_all()
```

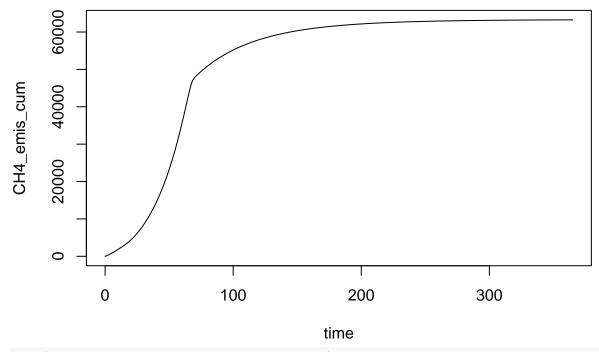
i Loading ABM



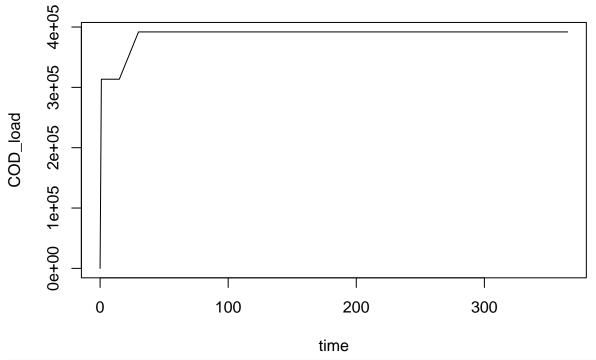




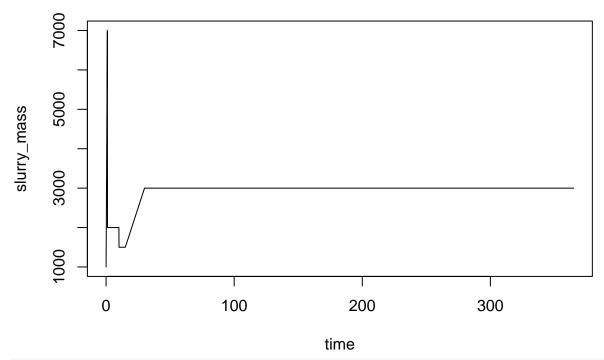
plot(CH4_emis_cum ~ time, data = out1, type = '1')



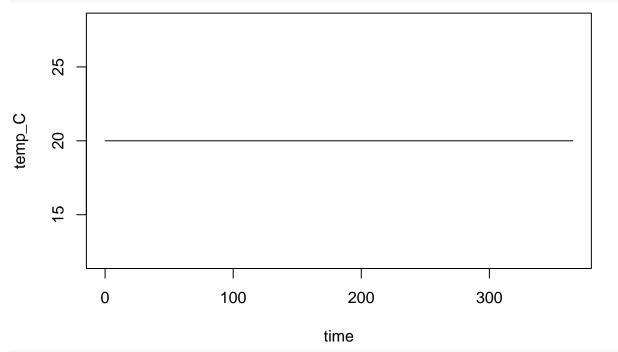
plot(COD_load ~ time, data = out1, type = '1')



plot(slurry_mass ~ time, data = out1, type = '1')







plot(VSd ~ time, data = out1, type = 'l')

