1. Slurry mass tests using abm_variable()

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Overview

Point of these tests is to check behavior of abm() when slurry mass is variable. Development of the relevant code has been challenging, so it is important to check behavior of multiple scenarios after an update.

Prep

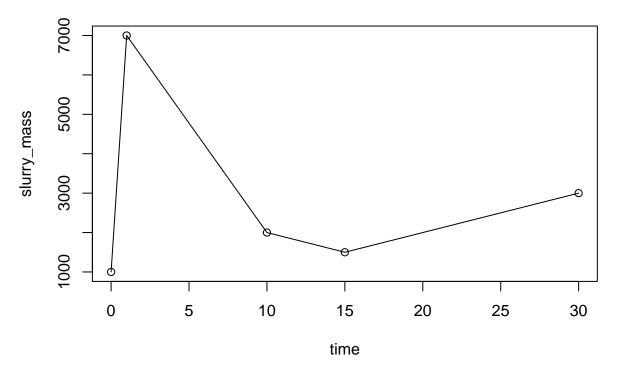
```
devtools::load_all()

## i Loading ABM
## Loading required package: deSolve
```

Case 1, consecutive removals

Slurry mass data.

```
slurry_mass_dat <- data.frame(time = c(0, 1, 10, 15, 30), slurry_mass = c(1000, 7000, 2000, 1500, 3000)
plot(slurry_mass ~ time, data = slurry_mass_dat, type = 'o')</pre>
```



out1 <- abm(30, delta_t = 0.1, man_pars = man_pars1.0, grp_pars = grp_pars1.0,

Default, with "early" behavior.

```
add_pars = list(storage_depth = 4, area = 1000, floor_area = 0,
                            slurry_mass = slurry_mass_dat, evap = 0, rain = 0))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 0 \text{ kg/m2/day}
```

```
## evaporation = 0 kg/m2/day
Late
out2 <- abm(30, delta_t = 0.1, man_pars = man_pars1.0, grp_pars = grp_pars1.0,
            add_pars = list(storage_depth = 4, area = 1000, floor_area = 0,
                            slurry_mass = slurry_mass_dat, evap = 0, rain = 0),
            approx_method = c(temp = 'linear', pH = 'linear', slurry_mass = 'late'))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 0 \text{ kg/m}2/\text{day}
## evaporation = 0 kg/m2/day
And mid
out3 <- abm(30, delta_t = 0.1, man_pars = man_pars1.0, grp_pars = grp_pars1.0,
            add_pars = list(storage_depth = 4, area = 1000, floor_area = 0,
                            slurry_mass = slurry_mass_dat, evap = 0, rain = 0),
            approx_method = c(temp = 'linear', pH = 'linear', slurry_mass = 'mid'))
```

Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped

Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped

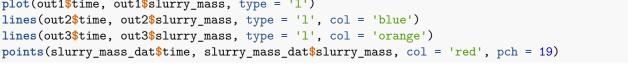
will be ignored because variable slurry input is used.

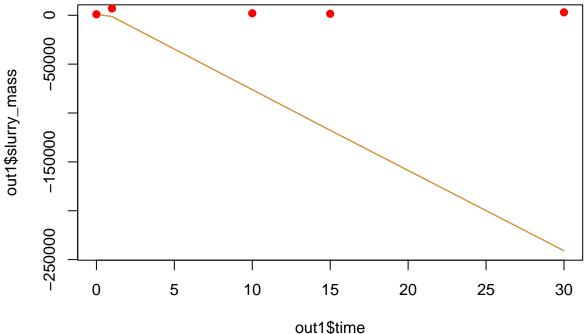
because of low slurry level.

because of low slurry level.

Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val

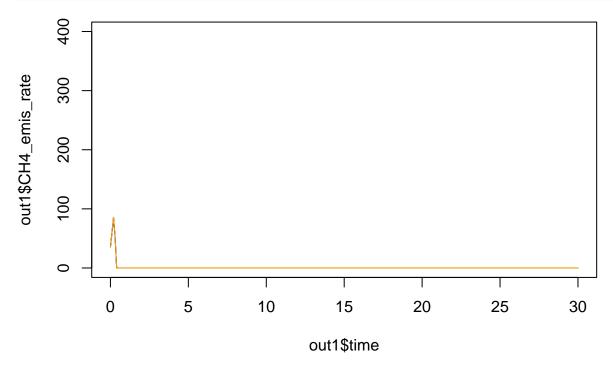
```
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 0 \text{ kg/m2/day}
## evaporation = 0 \text{ kg/m}2/\text{day}
plot(out1$time, out1$slurry_mass, type = '1')
```





Expect that all three approaches hit the red points (input level) exactly. Methane production rate:

```
plot(out1$time, out1$CH4_emis_rate, type = 'l', ylim = c(0, 400))
lines(out2$time, out2$CH4_emis_rate, type = 'l', col = 'blue')
lines(out3$time, out3$CH4_emis_rate, type = 'l', col = 'orange')
```



Case 2, slurry removal at the beginning

```
slurry_mass_dat \leftarrow data.frame(time = c(0, 1, 10, 15, 30),
                              slurry_mass = c(1000, 500, 2000, 1500, 3000))
out4 <- abm(30, delta_t = 0.1, man_pars = man_pars1.0, grp_pars = grp_pars1.0,
            add_pars = list(storage_depth = 4, area = 1000, floor_area = 0,
                            slurry_mass = slurry_mass_dat, evap = 0, rain = 0))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
```

```
## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 0 \text{ kg/m2/day}
## evaporation = 0 kg/m2/day
out5 <- abm(30, delta_t = 0.1, man_pars = man_pars1.0, grp_pars = grp_pars1.0,
            add_pars = list(storage_depth = 4, area = 1000, floor_area = 0,
                            slurry_mass = slurry_mass_dat, evap = 0, rain = 0),
            approx_method = c(temp = 'linear', pH = 'linear', slurry_mass = 'late'))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Emptying skipped bec
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 0 \text{ kg/m2/day}
## evaporation = 0 \text{ kg/m}2/\text{day}
out6 <- abm(30, delta_t = 0.1, man_pars = man_pars1.0, grp_pars = grp_pars1.0,
            add_pars = list(storage_depth = 4, area = 1000, floor_area = 0,
                            slurry_mass = slurry_mass_dat, evap = 0, rain = 0),
            approx_method = c(temp = 'linear', pH = 'linear', slurry_mass = 'mid'))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Emptying skipped bec
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
```

```
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 0 \text{ kg/m}2/\text{day}
## evaporation = 0 \text{ kg/m2/day}
plot(out4$time, out4$slurry_mass, type = 'l', ylim = c(0, 3500))
lines(out5$time, out5$slurry_mass, type = 'l', col = 'blue')
lines(out6$time, out6$slurry_mass, type = 'l', col = 'orange')
points(slurry_mass_dat$time, slurry_mass_dat$slurry_mass, col = 'red', pch = 19)
     3500
     2500
out4$slurry_mass
```

Case 3, slurry removal at end

5

10

500

500

0

```
slurry_mass_dat \leftarrow data.frame(time = c(0, 1, 10, 15, 30),
                               slurry_mass = c(1000, 2000, 4000, 4500, 1000))
out7 <- abm(30, delta_t = 0.1, man_pars = man_pars1.0, grp_pars = grp_pars1.0,
            add_pars = list(storage_depth = 4, area = 1000, floor_area = 0,
                             slurry_mass = slurry_mass_dat, evap = 0, rain = 0))
```

15

out4\$time

20

25

30

```
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.
## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 0 \text{ kg/m2/day}
## evaporation = 0 \text{ kg/m2/day}
out8 <- abm(30, delta_t = 0.1, man_pars = man_pars1.0, grp_pars = grp_pars1.0,
            add_pars = list(storage_depth = 4, area = 1000, floor_area = 0,
                            slurry_mass = slurry_mass_dat, evap = 0, rain = 0),
            approx_method = c(temp = 'linear', pH = 'linear', slurry_mass = 'late'))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Emptying skipped bec
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Emptying skipped bec
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Emptying skipped bec
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Emptying skipped bec
## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 0 \text{ kg/m2/day}
## evaporation = 0 \text{ kg/m2/day}
out9 <- abm(30, delta_t = 0.1, man_pars = man_pars1.0, grp_pars = grp_pars1.0,
            add_pars = list(storage_depth = 4, area = 1000, floor_area = 0,
                            slurry_mass = slurry_mass_dat, evap = 0, rain = 0),
            approx_method = c(temp = 'linear', pH = 'linear', slurry_mass = 'mid'))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
\#\# Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Emptying skipped bec
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Emptying skipped bec
```

Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Emptying skipped bec ## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Emptying skipped bec

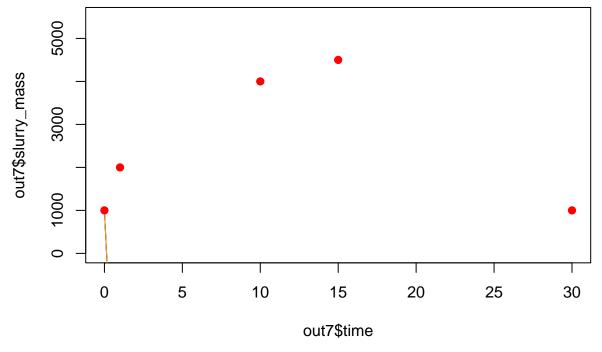
```
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.

## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
## because of low slurry level.

## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 0 kg/m2/day

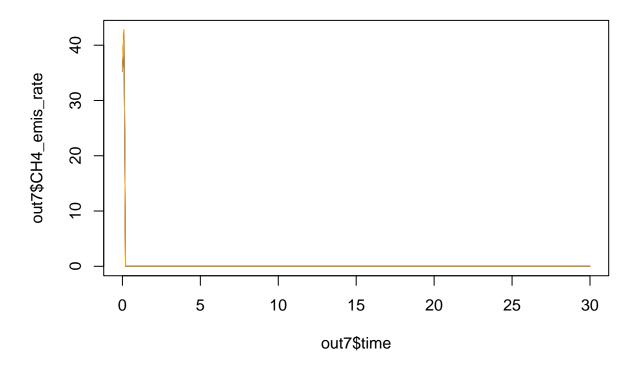
## evaporation = 0 kg/m2/day
```

```
plot(out7$time, out7$slurry_mass, type = 'l', ylim = c(0, 5500))
lines(out8$time, out8$slurry_mass, type = 'l', col = 'blue')
lines(out9$time, out9$slurry_mass, type = 'l', col = 'orange')
points(slurry_mass_dat$time, slurry_mass_dat$slurry_mass, col = 'red', pch = 19)
```



Note that last input point is ignored for 'late' method.

```
plot(out7$time, out7$CH4_emis_rate, type = '1')
lines(out8$time, out8$CH4_emis_rate, type = '1', col = 'blue')
lines(out9$time, out9$CH4_emis_rate, type = '1', col = 'orange')
```



Case 4, rain/evaporation correction

```
slurry_mass_dat <- read.csv('slurry_mass.csv')</pre>
Should get an error if adjusted slurry level is negative
out_a0 <- abm(days = 4*365, add_pars = list(slurry_mass = slurry_mass_dat))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Error in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Negative slurry mass v
    Check parameters and try again.
out_a1 <- abm(days = 4*365, add_pars = list(slurry_mass = slurry_mass_dat, area = 100))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
```

```
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid mass = slurry mass[j], resid enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid mass = slurry mass[j], resid enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
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## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
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## pars$resid_enrich): Emptying skipped because of low slurry level.
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## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid mass = slurry mass[j], resid enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in abm(days = 4 * 365, add_pars = list(slurry_mass = slurry_mass_dat, : Maximum slurry mass
## Check output.
## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 1.9 \text{ kg/m}2/\text{day}
## evaporation = 0.25 \text{ kg/m}2/\text{day}
```

Does it also work with different emptying alignment?

```
out_a2 <- abm(days = 4*365, add_pars = list(slurry_mass = slurry_mass_dat, area = 100),
              approx_method = c(temp = 'linear', pH = 'linear', slurry_mass = 'mid'))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, :
## Setting rain and evap to 0 because "mid" method was selected.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
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## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
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## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
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## pars$resid_enrich): Emptying skipped because of low slurry level.
```

```
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid_enrich): Emptying skipped because of low slurry level.
## Warning in abm(days = 4 * 365, add_pars = list(slurry_mass = slurry_mass_dat, : Maximum slurry mass
## Check output.
## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 1.9 \text{ kg/m}2/\text{day}
## evaporation = 0.25 kg/m2/day
out_a3 <- abm(days = 4*365, add_pars = list(slurry_mass = slurry_mass_dat, area = 100),
              approx_method = c(temp = 'linear', pH = 'linear', slurry_mass = 'late'))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
## pars$resid enrich): Emptying skipped because of low slurry level.
## Warning in emptyStore(y, resid_mass = slurry_mass[j], resid_enrich =
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## Check output.
## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 1.9 \text{ kg/m}2/\text{day}
## evaporation = 0.25 kg/m2/day
out_b <- abm(days = 4*365, add_pars = list(slurry_mass = slurry_mass_dat, rain = 0, evap = 0))
## Warning in abm_variable(days = days, delta_t = delta_t, times = times, y = y, : Fixed wash_water val
## will be ignored because variable slurry input is used.
## Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped
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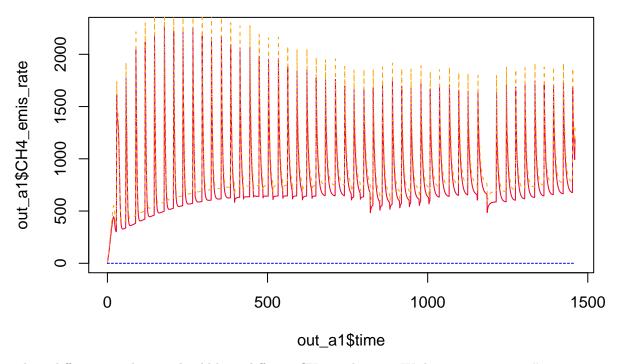
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## arguments overwritten by slurry_mass: slurry_prod_rate, empty_int, resid_depth, wash_water, wash_int
## rain = 0 \text{ kg/m2/day}
## evaporation = 0 \text{ kg/m}2/\text{day}
Check for mismatch between input slurry_mass and output slurry_mass
```

Warning in emptyStore(y, resid_mass = 0, resid_enrich = 0): Emptying skipped

because of low slurry level.

because of low slurry level.

plot(out_a1\$time, out_a1\$CH4_emis_rate, col = 'red', type = '1')
lines(out_a2\$time, out_a2\$CH4_emis_rate, col = 'orange', lty = 2)
lines(out_a3\$time, out_a3\$CH4_emis_rate, col = 'purple', lty = 3)
lines(out_b\$time, out_b\$CH4_emis_rate, col = 'blue', lty = '3131')



These different simulations should have different CH4 production. With no net rain, abm() interprets input as having more loading, so more methane.

```
plot(out_a1$time, out_a1$CH4_emis_cum, col = 'red', type = 'l', ylim = c(0, 2E7))
lines(out_a2$time, out_a2$CH4_emis_cum, col = 'orange', lty = 2, lwd = 3)
lines(out_a3$time, out_a3$CH4_emis_cum, col = 'purple', lty = 3, lwd = 3)
lines(out_b$time, out_b$CH4_emis_cum, col = 'blue', lty = '3131')
```

