

Model call record

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Calculates emission

Run model

With set 2 parameters

```
preds <- ALFAM2mod(dde, pars = ALFAM2pars02, app.name = 'tan.app', time.name = 'ct',  
                  time.incorp = 'time.incorp', group = 'pmid', warn = TRUE, prep = TRUE,  
                  parallel = FALSE, ncpus = 4)
```

```
## User-supplied parameters are being used.
```

```
## Incorporation applied (for group 1500).
```

```
## Incorporation applied (for group 1501).
```

```
## Incorporation applied (for group 1506).
```

```
## Incorporation applied (for group 1527).
```

```
## Warning in ALFAM2mod(dde, pars = ALFAM2pars02, app.name = "tan.app", time.name = "ct", : Running with 22 parameters. Dropped 2 with no
```

```
## These secondary parameters have been dropped:
```

```
##   app.mthd.cs.f0
```

```
##   app.mthd.cs.r3
```

```
##
```

```
## These secondary parameters are being used:
```

```
##   int.f0
```

```
##   app.mthd.os.f0
```

```
##   app.rate.ni.f0
```

```
##   man.dm.f0
```

```
##   man.source.pig.f0
```

```
##   int.r1
```

```
##   app.mthd.bc.r1
```

```
## man.dm.r1
## air.temp.r1
## wind.2m.r1
## app.mthd.ts.r1
## ts.cereal.hght.r1
## man.ph.r1
## int.r2
## rain.rate.r2
## int.r3
## app.mthd.bc.r3
## man.ph.r3
## incorp.shallow.f4
## incorp.shallow.r3
## incorp.deep.f4
## incorp.deep.r3
```

```
names(preds) <- paste0(names(preds), '.pred')
d.pred <- cbind(dde, preds[, -1:-3])
d.pred$error.er <- d.pred$er.pred - d.pred$er
```

And with set 1 (why not compare?)

```
dde$rain.cum[is.na(dde$rain.cum)] <- 0
preds1 <- ALFAM2mod(dde, pars = ALFAM2pars01, app.name = 'tan.app', time.name = 'ct',
                    time.incorp = 'time.incorp', group = 'pmid', warn = TRUE, prep = TRUE,
                    parallel = FALSE, ncpus = 4)
```

```
## User-supplied parameters are being used.
## Incorporation applied (for group 1500).
## Incorporation applied (for group 1501).
## Incorporation applied (for group 1506).
## Incorporation applied (for group 1527).
```

```
names(preds1) <- paste0(names(preds1), '.pred1')
d.pred <- cbind(d.pred, preds1[, -1:-3])
```