```
type (bmi_prms_surface) :: model
character (len=*) :: config_file
integer :: status
double precision :: now, end_time

status = model%initialize(config_file)
status = model%get_current_time(now)
status = model%get_end_time(end_time)
do while (now < end_time)
   status = model%update()
   status = model%get_current_time(now)
end do
status = model%finalize()
```