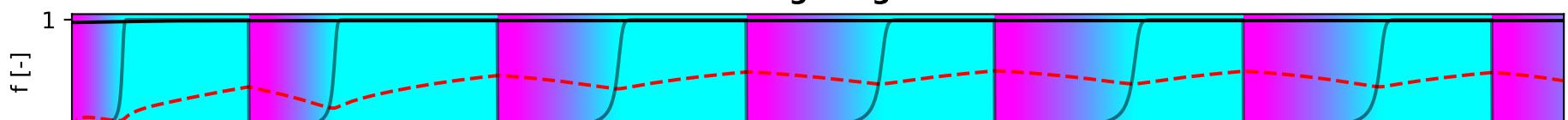


# Inhibitions for the different reactions

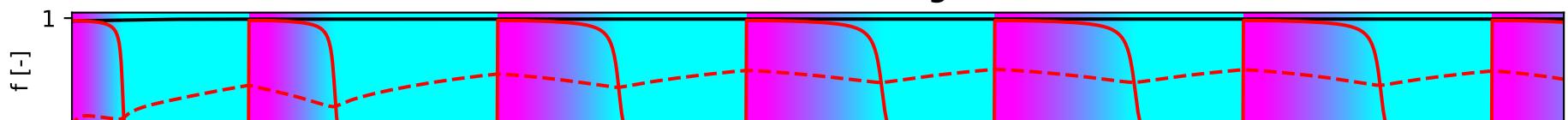
## Hydrolysis lumped with acidogenesis & acetogenesis



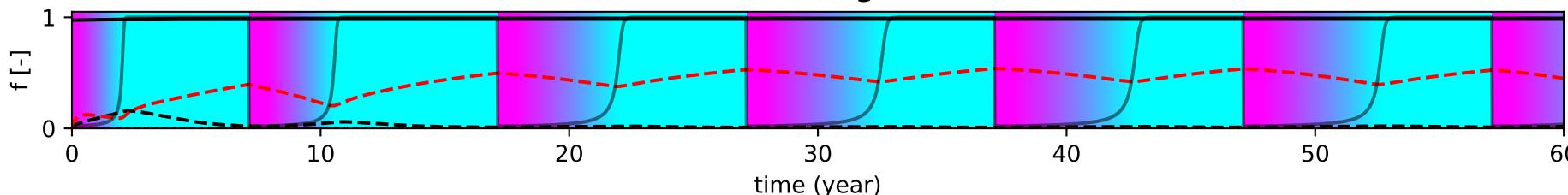
## Methanogens growth



## Oxidizers & Nitrifiers growth



## Denitrifiers growth



- |                                    |                                     |                                    |
|------------------------------------|-------------------------------------|------------------------------------|
| — pH inhibition                    | — $O_2$ substrate inhibition        | — $O_2$ toxicity inhibition        |
| - - - acetate substrate inhibition | - - - $NH_4^+$ substrate inhibition | - - - $NH_4^+$ toxicity inhibition |
| ..... SOM substrate inhibition     | ..... $NO_3^-$ substrate inhibition | ..... biomass presence inhibition  |