1. **my Specific contents of the \*krc file**

#KINREACTIONDATA

$SOLVER\_TYPE

1 ; Solver type

$RELATIVE\_ERROR

0.01 ; rel. Error

$MIN\_TIMESTEP

1.e-6 ; min Timestep

$INITIAL\_TIMESTEP

1.0 ; init Timestep

$BACTERIACAPACITY

1000.0

#REACTION

$NAME

Decomposition

$TYPE

monod

$BACTERIANAME

Decomposer

$EQUATION

1 OC + 1 DO = 8 CO2 + 5 H2O ;

$RATECONSTANT

1.0e-5 1.0

$GROWTH

0 ; 0= growth not allowed

$PRODUCTIONSTOCH

OC -1

DO -1

$MONODTERMS

OC 1.0e-5 1.0 ; for each monod term : species concentration order

DO 1.0e-5 1.0

#REACTION

$NAME

Denitrification

$TYPE

monod ;

$BACTERIANAME

Denitrifier

$EQUATION

1 OC + 0.8 Nitrate + 0.8 H = 1 CO2 + 1.4 H2O + 0.4 N2;

$RATECONSTANT

2.0e-6 1.0

$GROWTH

0 ; 0= growth not allowed

$MONODTERMS

OC 1.0e-5 1.0 ; for each monod term : species concentration order

Nitrate 1.0e-5 1.0

$PRODUCTIONSTOCH

OC -1

Nitrate -0.8

$INHIBITIONTERMS

DO 3 1.0 ; species , concentration , order

#STOP

1. **Problems running the model**

















