

NUFEB Model

File

Help

All units should be specified in SI

Boundary

x

y

z

Periodic:

☒

☒

☒

Fixed:

☐

☐

☐

Input File:

Browse

Neighbor Skin Distance (m):

1.0e-5

Time Step (s):

1.0

☒ Particle Physics

k_n:

200000000

k_t:

gamma_n:

15000000

gamma_t:

mu:

0.5

☒ Flag

☒ Gravity

magnitude (m/s ^ 2):

9.8

direction:

down

HET

AOB

NOB

All

Growth:

☐

☐

☐

☒

Death:

☐

☐

☐

☒

Division:

☐

☐

☐

☒

EPS Excretion:

☒

HET

AOB

NOB

EPS

Maximum Growth Rate (1/s):

6.944e-5

3.4722e-5

3.4722e-5

Decay Rate (1/s):

4.6296e-6

1.2731e-6

1.2731e-6

1.9676e-6

Yield Coefficient (-):

0.61

0.33

0.083

0.18

Dissolved Oxygen Affinity (kg/m ^ 3):

HET:

8.1e-4

AOB:

5e-4

NOB:

6.8e-4

Nitrite Affinity (kg/m ^ 3):

HET:

3e-4

NOB:

1.3e-3

HET Carbon Source Affinity (kg/m ^ 3):

1e-2

HET Nitrate Affinity (kg/m ^ 3):

3e-4

AOB Ammonia Affinity (kg/m ^ 3):

1e-3

HET Reduction Factor (-):

0.6

Death Factor (-):

2.0

EPS:Density (kg/m ^ 3):

30

Extraction Ratio (-):

1.25

Output File:

Browse

id

Generate Input Script

Run Model

Enter parameters