q_nb = 1e-06; q_pb = 1e-06 Н PAV_conc PAV_pop 12 7 9 9 . 2 6 6 1 3 3 0 -0 0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050 60 60 20 60 20 20 40 40 40 0 Ö Ö

q_nb = 5e-06; q_pb = 1e-06 Н PAV_conc PAV_pop 12 ק 9 9 2 6 6 1 3 3 0 -0 0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050 60 60 20 60 20 20 40 40 40 0 Ö Ö

q_nb = 1e-05; q_pb = 1e-06 Н PAV_conc PAV_pop 9 9 . 2 6 6 1 3 3 0 -0 0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050 60 60 20 20 60 20 40 40 40 Ö Ö

q_nb = 2.5e-05; q_pb = 1e-06 Н PAV_conc PAV_pop 9 9 2 6 6 1 3 3 0 -0 0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025

Ö

20

40

60

-0.050

Ö

20

time

40

60

0e+00

0

20

q_nb = 5e-05; q_pb = 1e-06 Н PAV_conc PAV_pop 9 9 2 6 6 1 3 3 0 -0 0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050 60 60 20 20 60 20 40 40 40 Ö Ö Ö

q_nb = 7.4e-05; q_pb = 1e-06 Н PAV_conc PAV_pop 9 9 2 6 6 1 3 3 0 -0 0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025

Ö

20

40

60

-0.050

Ö

20

time

40

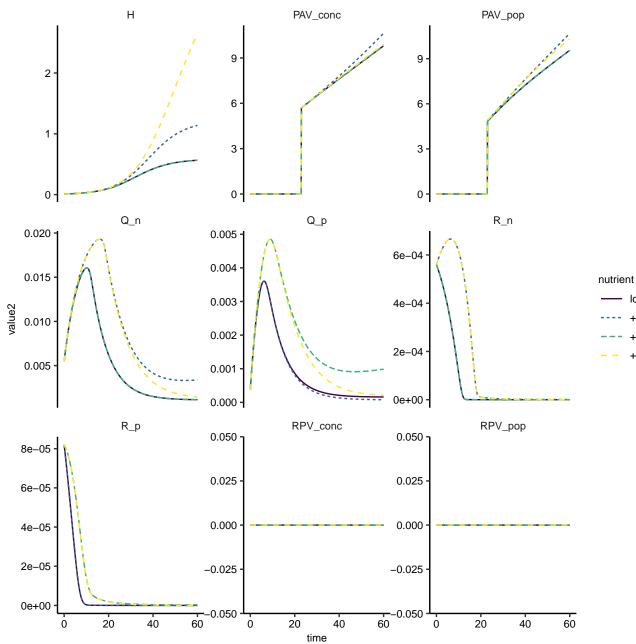
60

0e+00

0

20

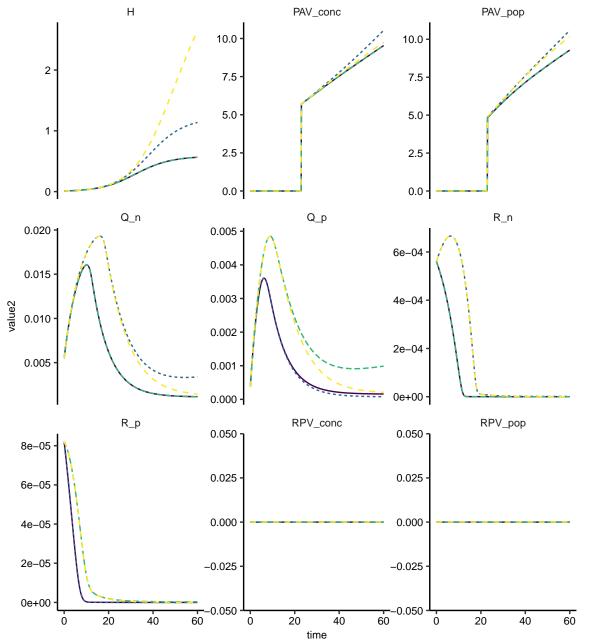
q_nb = 0.000158076155337242; q_pb = 1e-06



low

+N

q_nb = 0.000183142482392223; q_pb = 1e−06

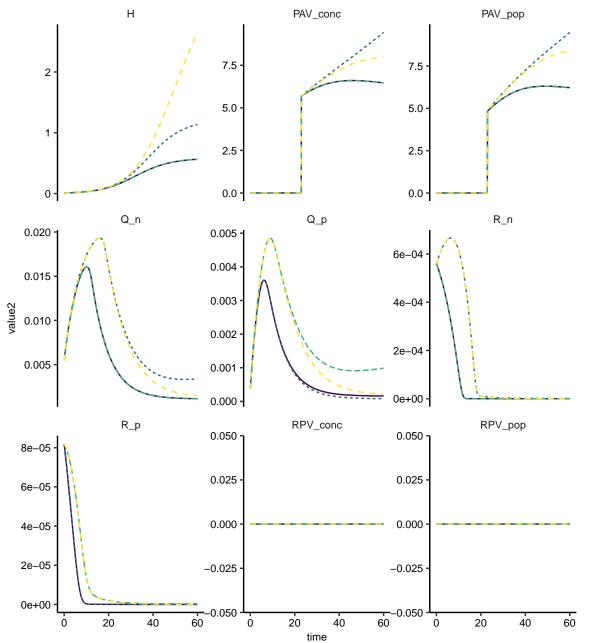


low

+N

q_nb = 3e-04; q_pb = 1e-06 Н PAV_conc PAV_pop 10.0 -10.0 -2 7.5 7.5 5.0 5.0 1 2.5 2.5 0 -0.0 -0.0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 **-**-0.025 0e+00 -0.050 -0.050 60 60 20 60 20 20 40 40 40 Ö Ö

q_nb = 0.00046957276098063; q_pb = 1e−06 ⊢



nutrient

low

+N

q_nb = 5e-04; q_pb = 1e-06 Н PAV_conc PAV_pop 7.5 7.5 2 5.0 5.0 1 2.5 2.5 0 -0.0 -0.0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 0.010 +N 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 **-**-0.025 0e+00

20

40

60

-0.050

Ö

20

time

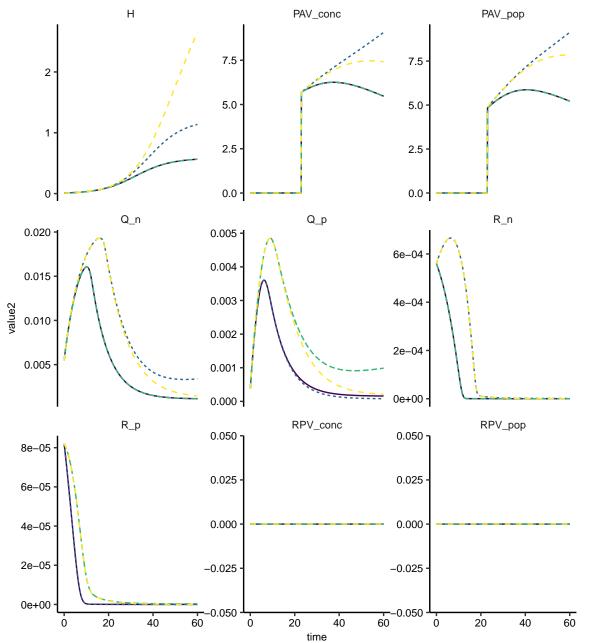
40

60

20

Ö

q_nb = 0.000562823749587066; q_pb = 1e−06



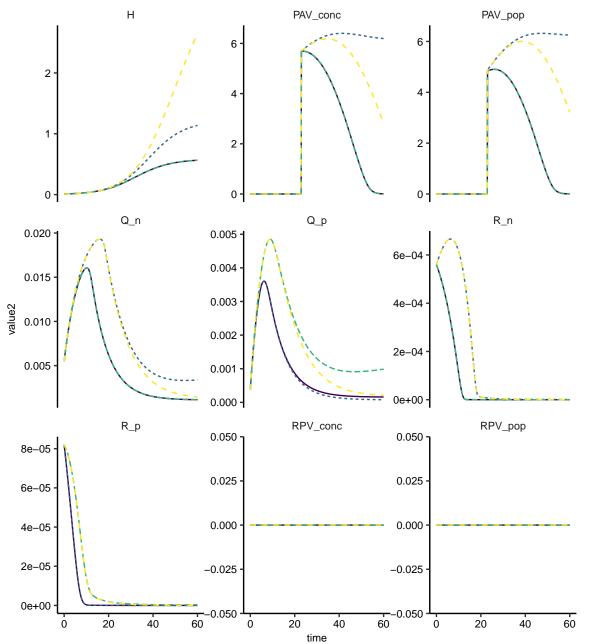
low

+N

q_nb = 7e-04; q_pb = 1e-06 Н PAV_conc PAV_pop 7.5 -7.5 2 5.0 5.0 1 2.5 2.5 0 -0.0 -0.0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050 60 60 60 20 20 20 40 40 40 Ö

q_nb = 0.0011; q_pb = 1e-06 Н PAV_conc PAV_pop 6 6 2 4 4 1 2 2 0 -0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050 60 60 60 20 20 20 40 40 40 0 Ö

q_nb = 0.00131536828534556; q_pb = 1e-06



low

+N

q_nb = 0.003; q_pb = 1e-06 Н PAV_conc PAV_pop 5 -4 2 3 2 1 2 1 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient 0.003 low 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00

Ö

20

40

60

-0.050

Ö

20

time

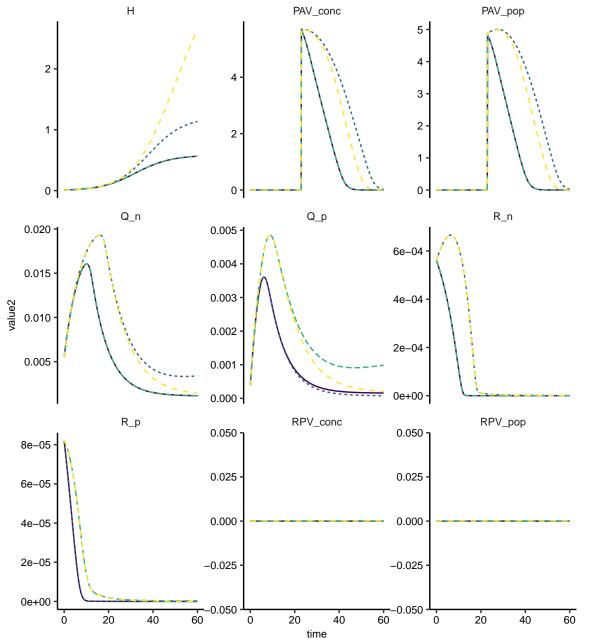
40

60

20

0

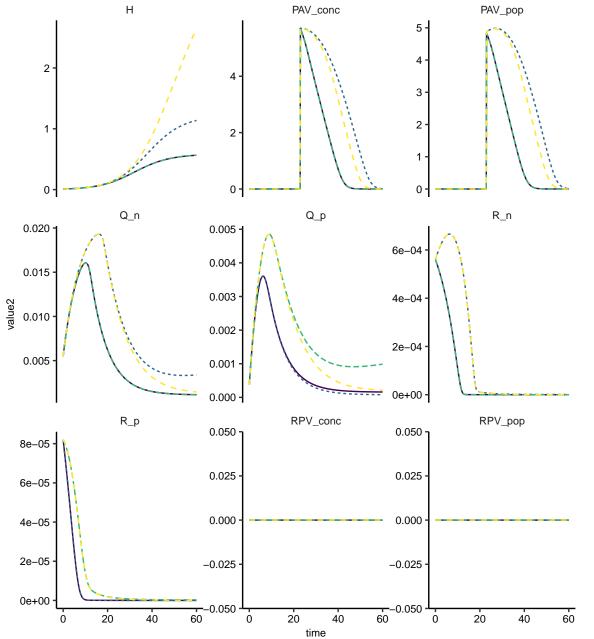
q_nb = 0.00326863518059874; q_pb = 1e−06 H



low

+N

q_nb = 0.00338308497957397; q_pb = 1e-06 Н



low

+N

q_nb = 0.005; q_pb = 1e-06 Н PAV_conc PAV_pop 5 + 4 2 4 3 2 1 2 1 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient 0.003 low 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050 60 60 60 20 20 20 40 40 40 0 Ö Ö

q_nb = 0.007; q_pb = 1e-06 Н PAV_conc PAV_pop 5 + 4 2 4 3 2 1 2 1 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050 60 60 60 20 20 20 40 40 40 0 Ö Ö

q_nb = 0.01; q_pb = 1e-06 Н PAV_conc PAV_pop 5 + 4 2 4 3 2 1 2 1 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050 60 60 60 20 20 20 40 40 40 Ö Ö

q_nb = 1e-06; q_pb = 5e-06 Н PAV_conc PAV_pop 9 9 -2 6 6 1 3 3 0 -0 0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050

60

20

Ö

40

60

20

time

Ö

40

60

20

Ö

q_nb = 1e-06; q_pb = 1e-05 Н PAV_conc PAV_pop 9 9 2 6 6 1 3 3 0 -0 0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050

60

60

20

Ö

40

20

time

Ö

40

60

20

0

q_nb = 1e-06; q_pb = 2.5e-05 Н PAV_conc PAV_pop 9 9 2 6 6 1 3 3 0 -0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00

Ö

20

40

60

-0.050

Ö

20

time

40

60

20

0

q_nb = 1e-06; q_pb = 5e-05 Н PAV_conc PAV_pop 10.0 9 2 7.5 6 5.0 1 3 2.5 0 -0 0.0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 **-**-0.025

20

40

60

-0.050

Ö

20

time

40

60

0e+00

Ö

20

q_nb = 1e-06; q_pb = 7.4e-05 Н PAV_conc PAV_pop 10.0 -10.0 2 7.5 7.5 5.0 5.0 1 2.5 2.5 0 -0.0 -0.0 Q_n R_n Q_p 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 **-**-0.025

20

40

60

-0.050

Ö

20

time

40

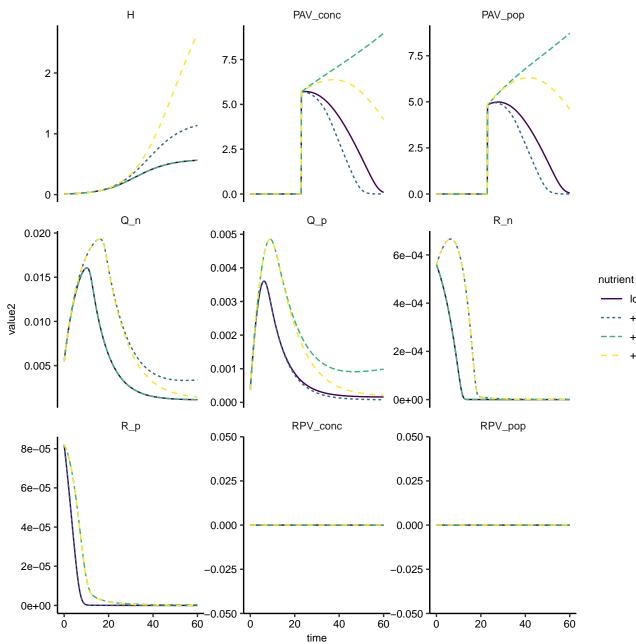
60

0e+00

0

20

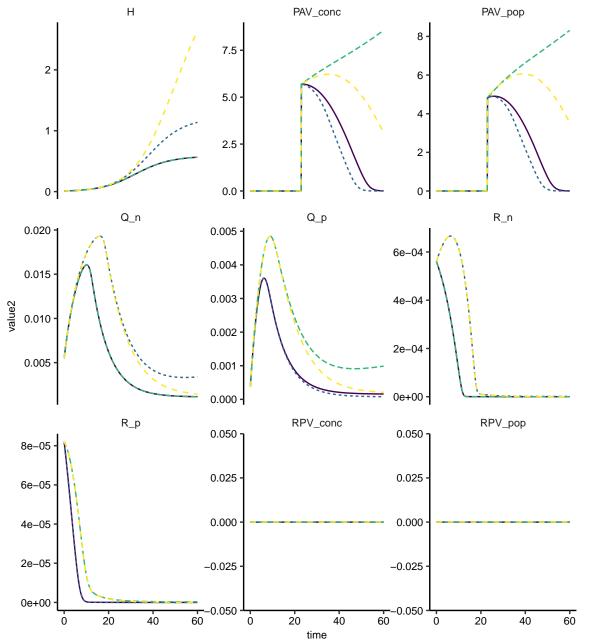
q_nb = 1e-06; q_pb = 0.000158076155337242



low

+N

q_nb = 1e-06; q_pb = 0.000183142482392223



low

+N

q_nb = 1e-06; q_pb = 3e-04 Н PAV_conc PAV_pop 6 6 2 4 4 1 2 2 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050

60

20

0

40

20

time

Ö

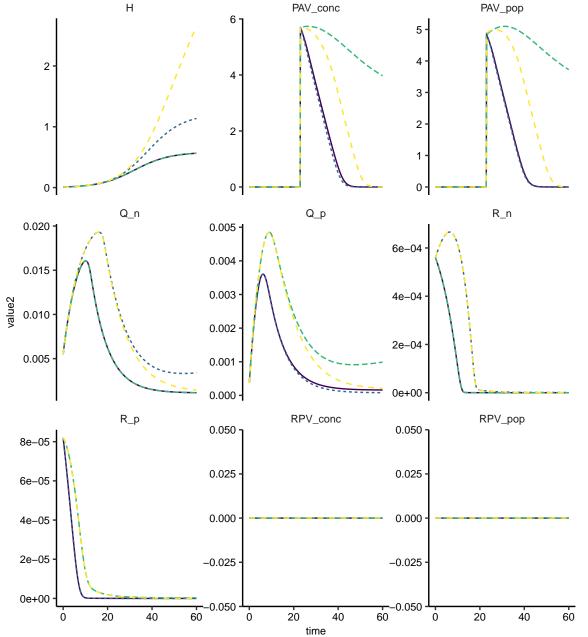
40

-0.050 60

20

40

q_nb = 1e-06; q_pb = 0.00046957276098063 H



low

+N

q_nb = 1e-06; q_pb = 5e-04 Н PAV_conc PAV_pop 6 5 -4 2 3 2 1 2 1 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050

60

20

time

Ö

40

60

40

20

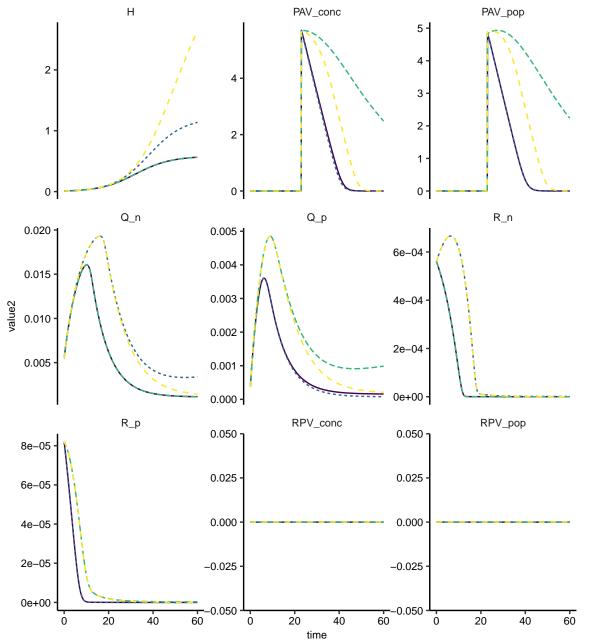
Ö

60

20

0

q_nb = 1e−06; q_pb = 0.000562823749587066



low

+N

q_nb = 1e-06; q_pb = 7e-04 Н PAV_conc PAV_pop 5 + 4 2 4 3 2 1 2 1 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025

Ö

20

40

60

-0.050

Ö

20

time

40

60

0e+00

Ö

20

q_nb = 1e-06; q_pb = 0.0011 Н PAV_conc PAV_pop 5 + 4 2 4 3 2 1 2 1 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050 60 60 20 60 20

40

time

Ö

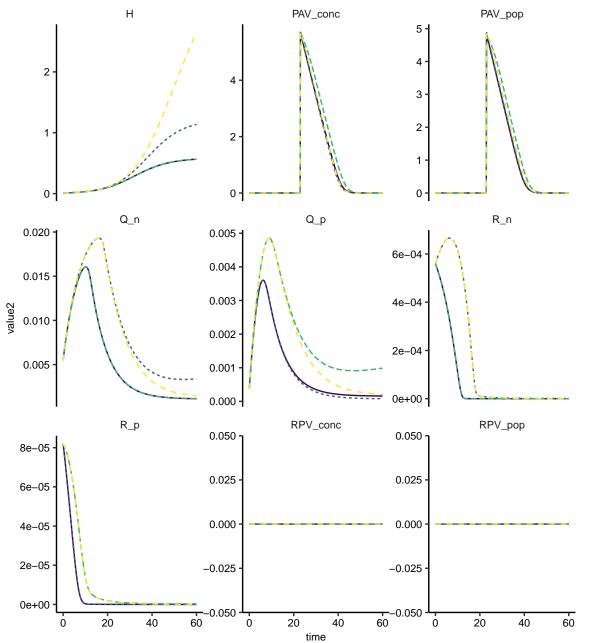
40

Ö

20

0

q_nb = 1e-06; q_pb = 0.00131536828534556



nutrient

low

+N

q_nb = 1e-06; q_pb = 0.003 Н PAV_conc PAV_pop 5 + 4 2 4 3 2 1 2 1 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00

Ö

20

40

60

-0.050

Ö

20

time

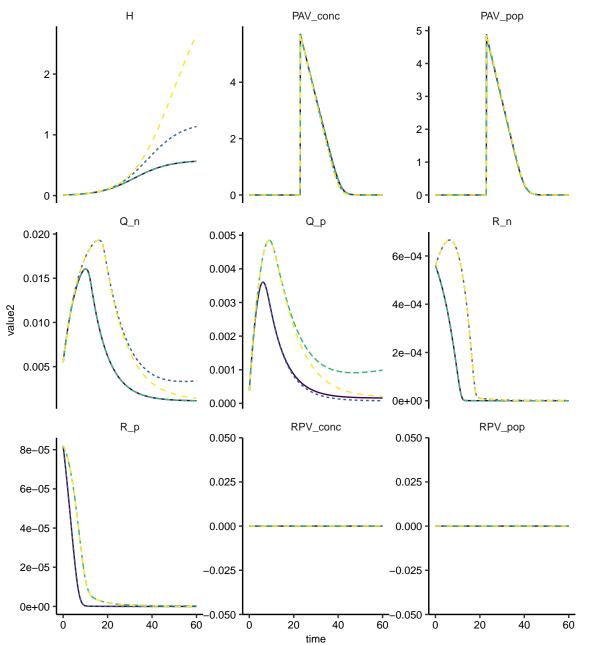
40

60

20

0

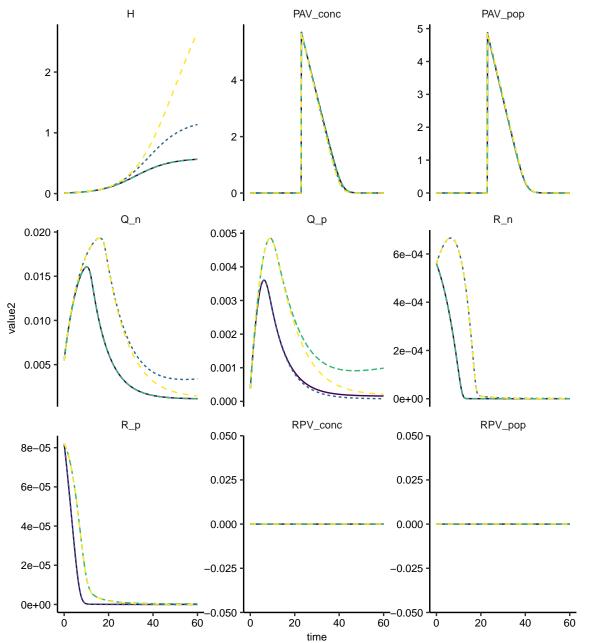
q_nb = 1e-06; q_pb = 0.00326863518059874



low

+N

q_nb = 1e-06; q_pb = 0.00338308497957397



low

+N

q_nb = 1e-06; q_pb = 0.005 Н PAV_conc PAV_pop 5 + 4 2 4 3 2 1 2 1 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025

Ö

20

40

60

-0.050

Ö

20

time

40

60

0e+00

0

20

q_nb = 1e-06; q_pb = 0.007 Н PAV_conc PAV_pop 5 + 4 2 4 3 2 1 2 1 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00

Ö

20

40

60

-0.050

Ö

20

time

40

60

20

0

q_nb = 1e-06; q_pb = 0.01 Н PAV_conc PAV_pop 5 + 4 2 4 3 2 1 2 1 0 -0 Q_n Q_p R_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 -0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -R_p RPV_conc RPV_pop 0.050 0.050 8e-05 0.025 0.025 6e-05 0.000 0.000 4e-05 2e-05 -0.025 --0.025 0e+00 -0.050 -0.050 60 60 60 20 20 20 40 40 40 0 Ö Ö