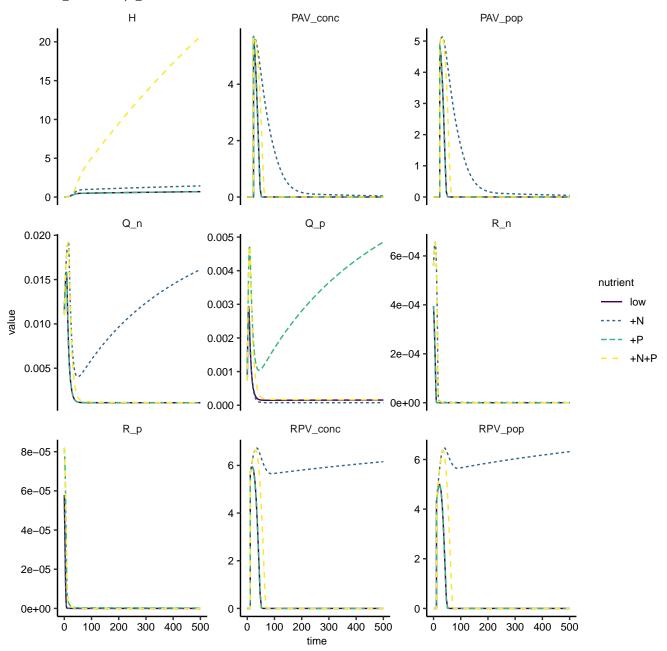
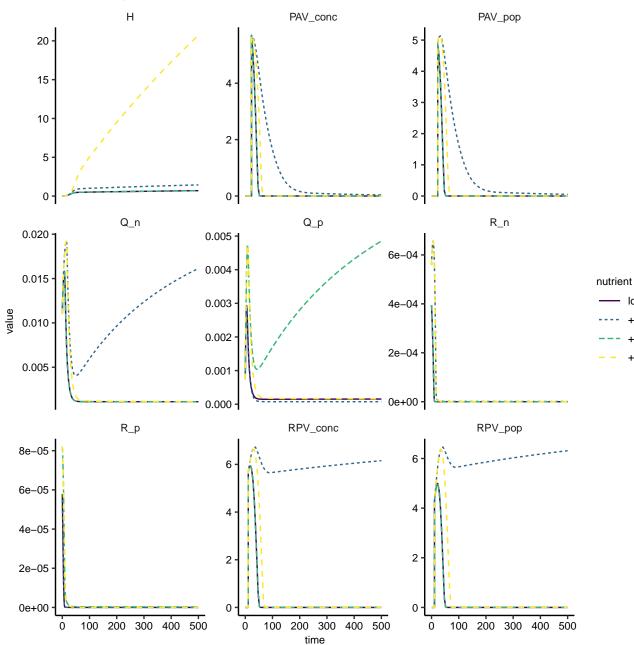
z_nb = 1e-18; z_nc = 1e-18

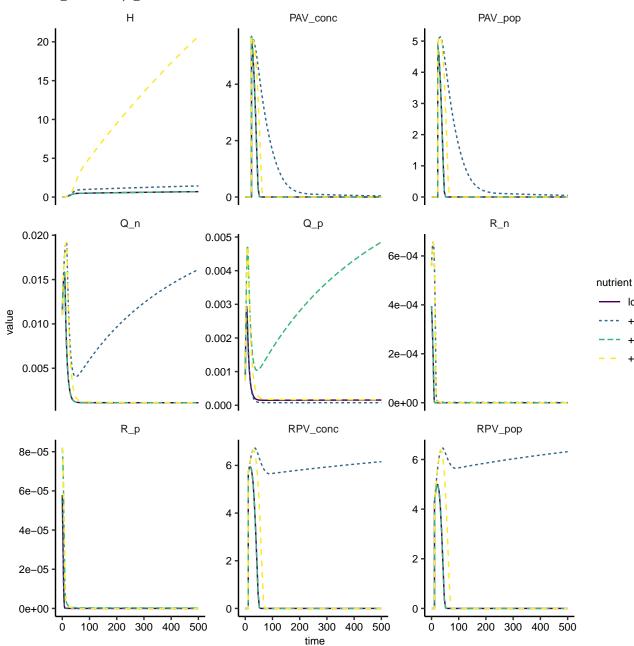


z_nb = 1e-18; z_nc = 1e-16



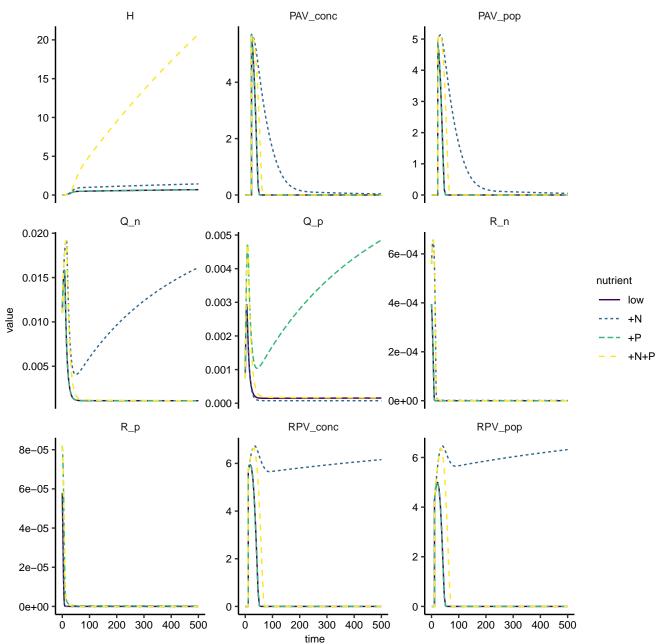
+N

z_nb = 1e-18; z_nc = 1e-14

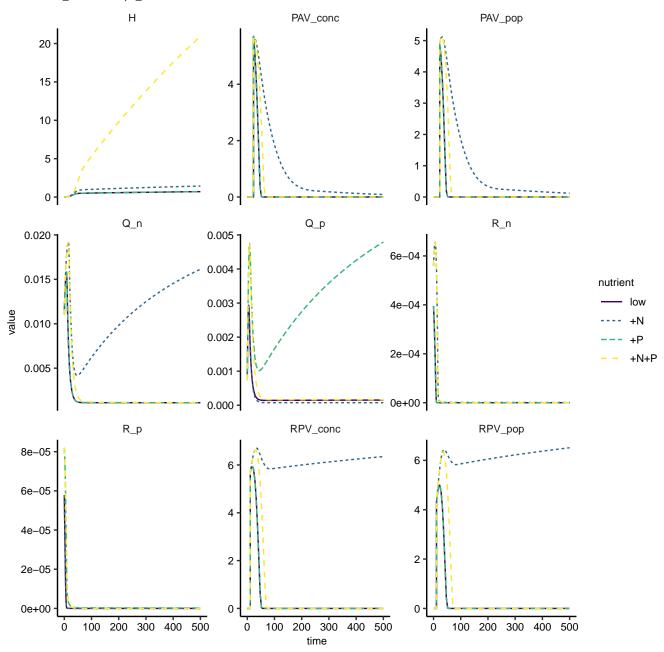


+N

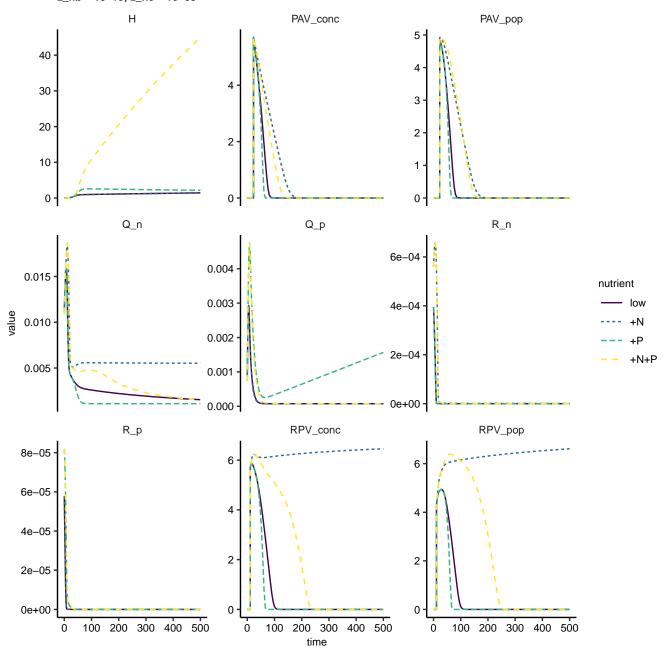
z_nb = 1e-18; z_nc = 1e-12



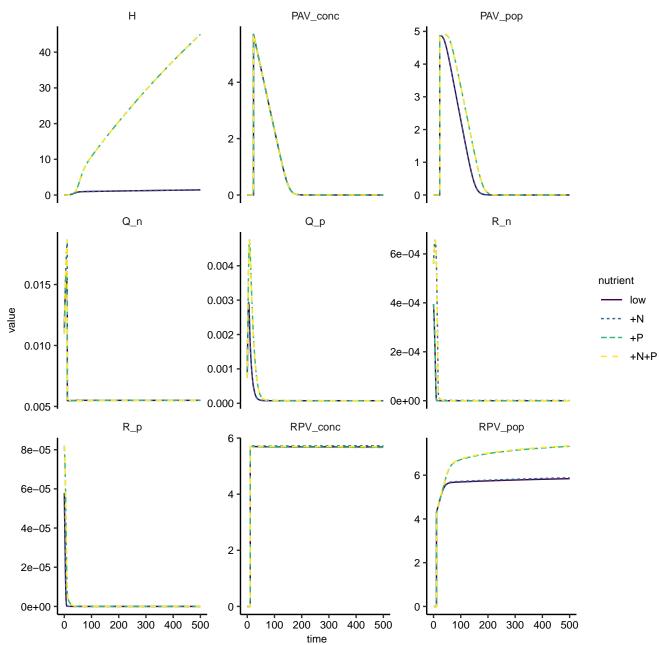
z_nb = 1e-18; z_nc = 1e-10



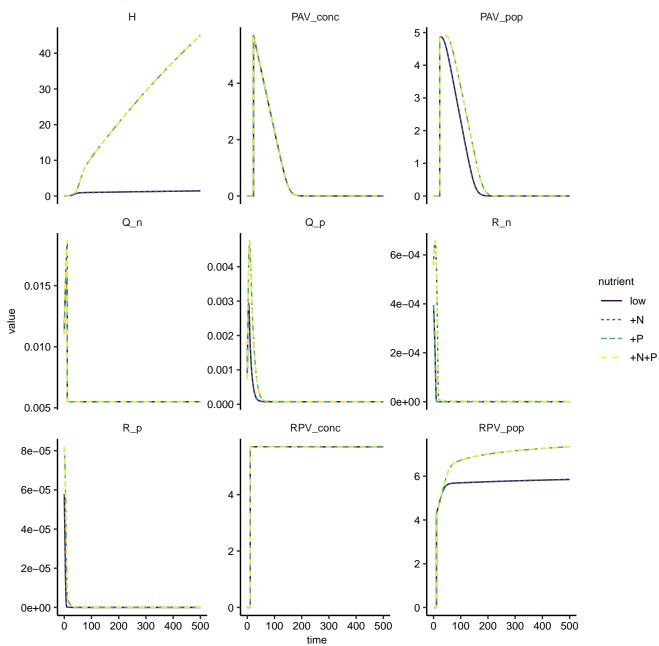
z_nb = 1e-18; z_nc = 1e-08



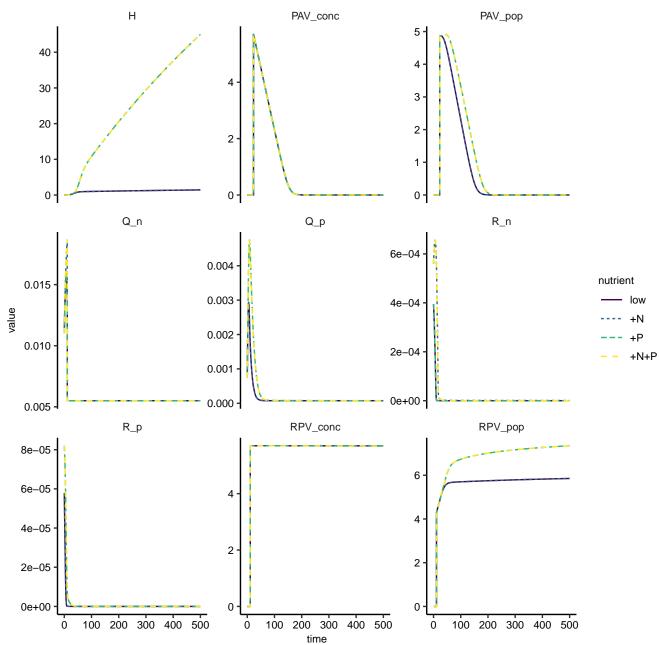
z_nb = 1e-18; z_nc = 1e-06



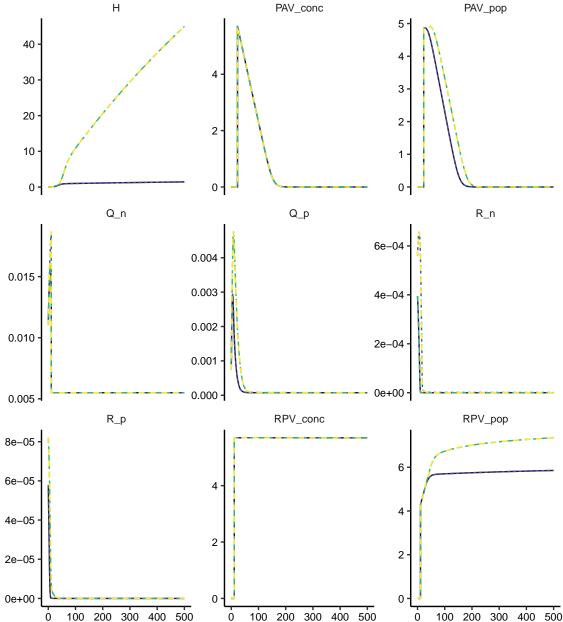
z_nb = 1e-18; z_nc = 1e-04



z_nb = 1e-18; z_nc = 0.01

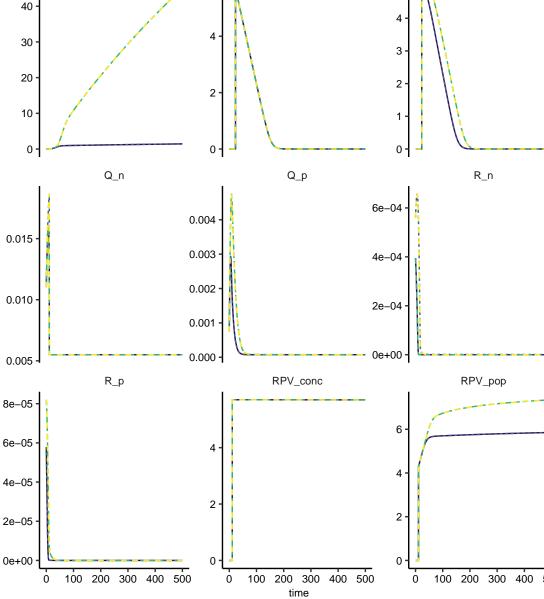


z_nb = 1e-18; z_nc = 1 Н PAV_conc 40 4 30 20 2 10 0 -Q_n 0.004 0.015 0.003 value 0.002

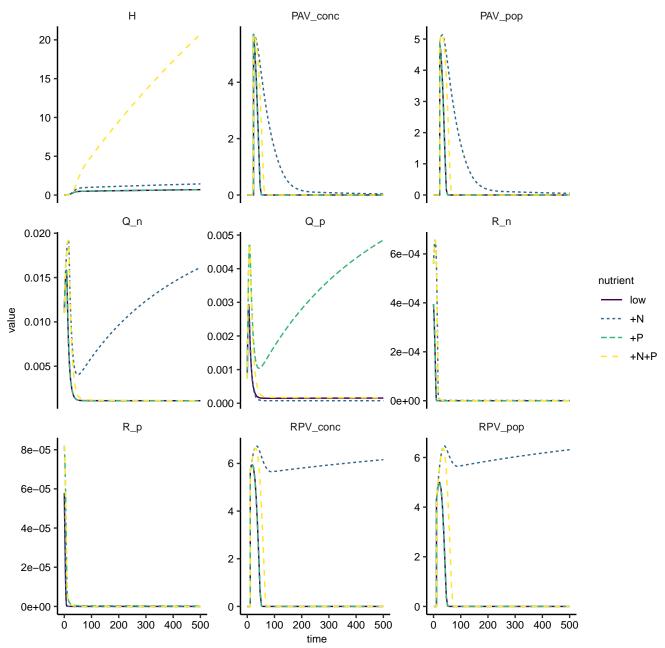


low

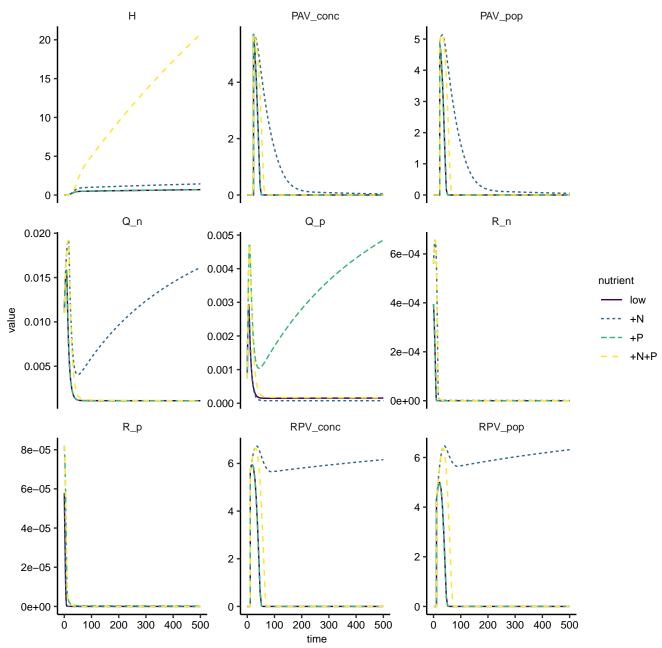
+N



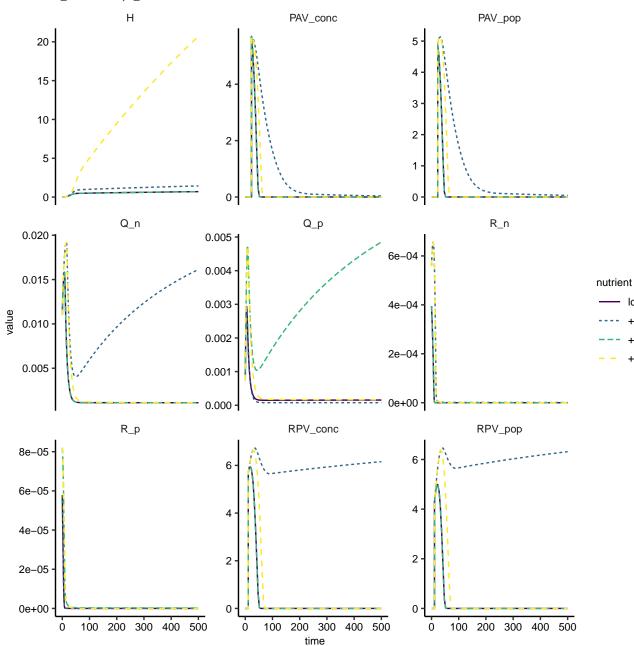
z_nb = 1e-16; z_nc = 1e-18



z_nb = 1e-16; z_nc = 1e-16

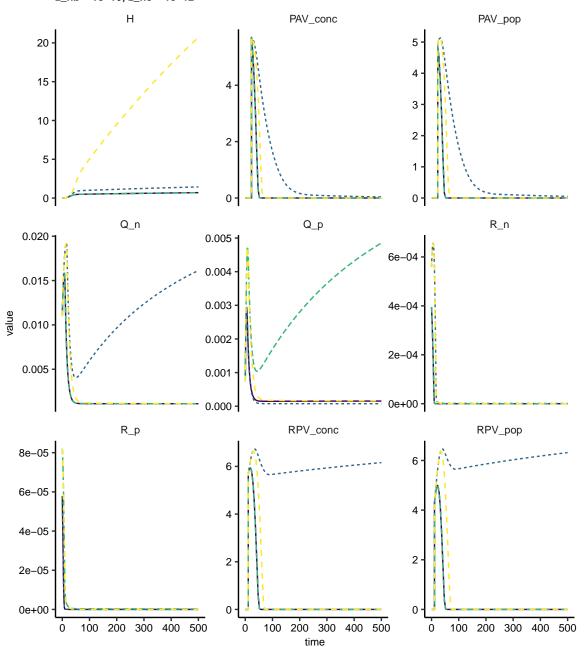


z_nb = 1e-16; z_nc = 1e-14



+N

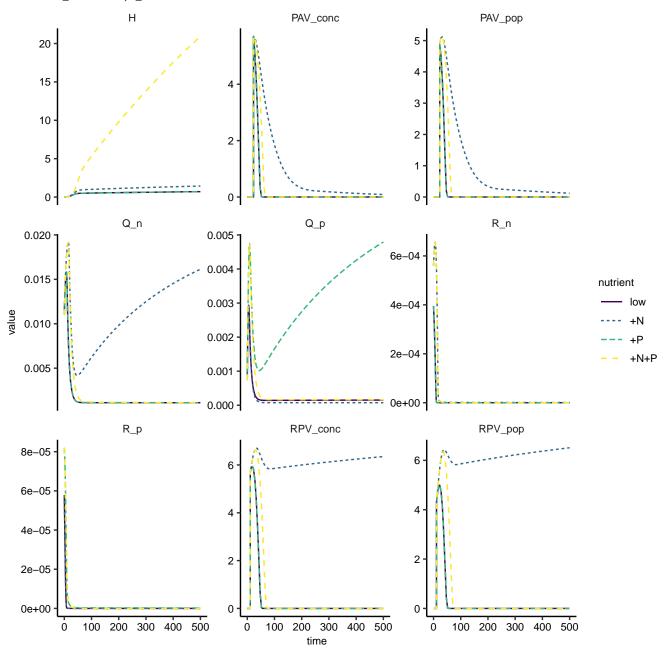
z_nb = 1e-16; z_nc = 1e-12



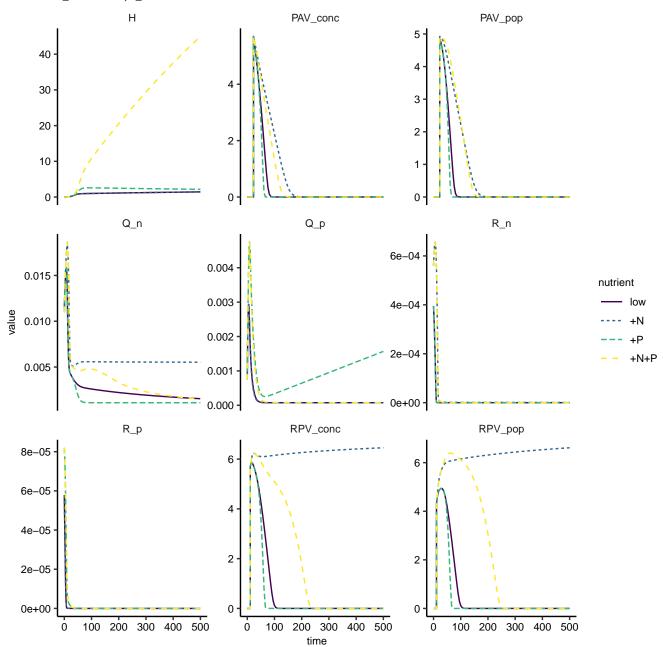
low

+N

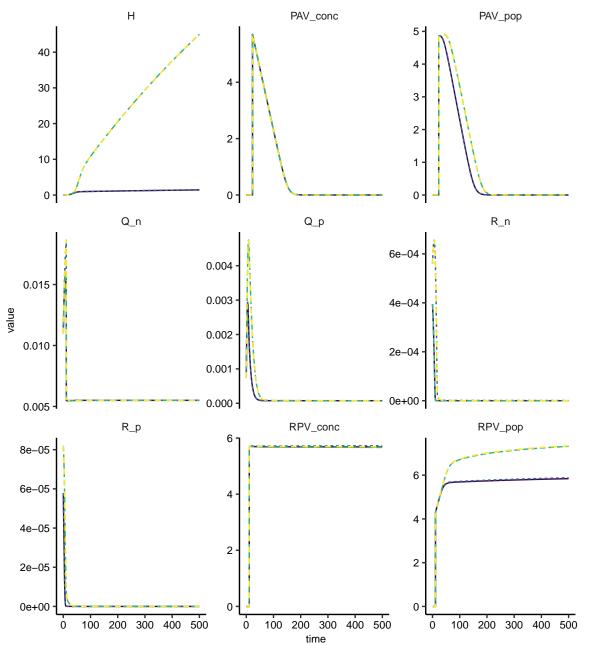
z_nb = 1e-16; z_nc = 1e-10



z_nb = 1e-16; z_nc = 1e-08



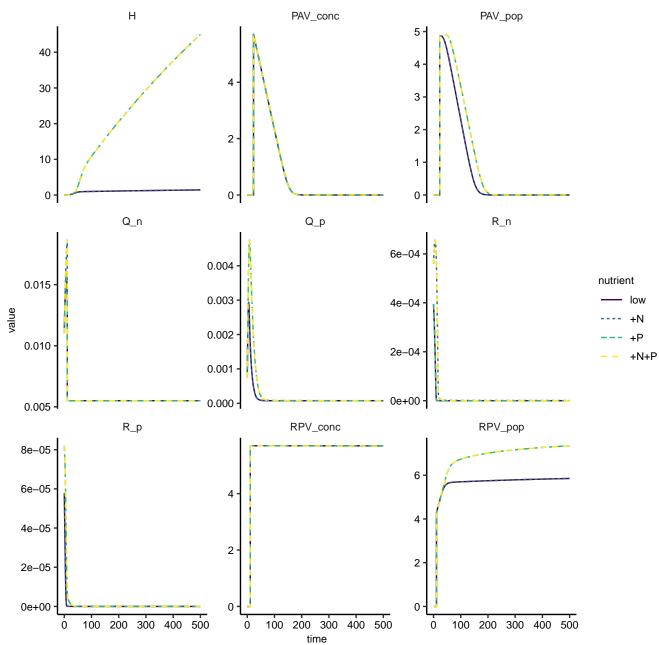
z_nb = 1e-16; z_nc = 1e-06



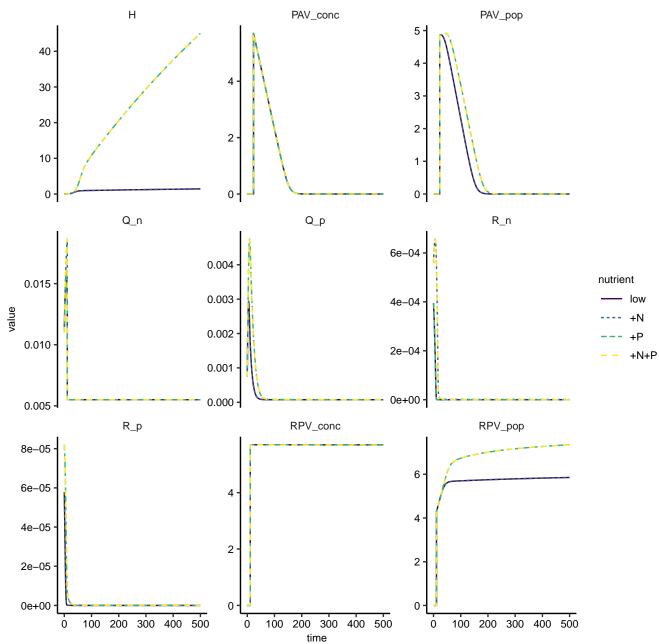
low

+N

z_nb = 1e-16; z_nc = 1e-04



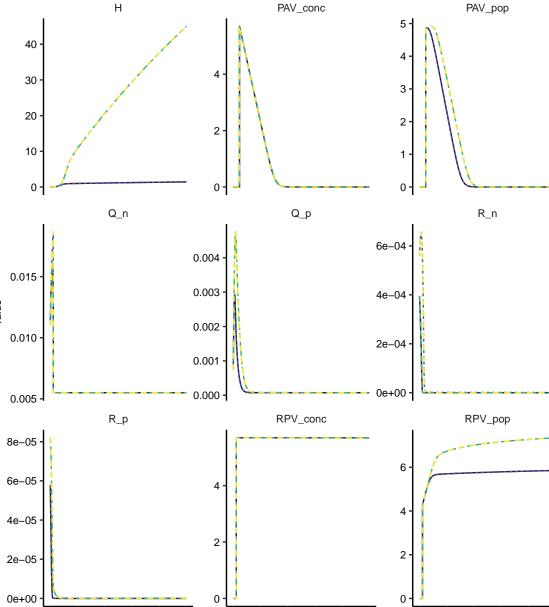
z_nb = 1e-16; z_nc = 0.01



z_nb = 1e-16; z_nc = 1 Н PAV_conc 40 4 30 20 2 10 0 -Q_n 0.004 0.015 0.003 value

100 200

300 400 500

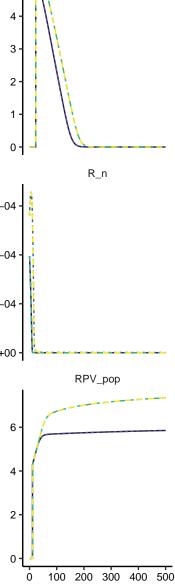


300

time

400 500

100 200

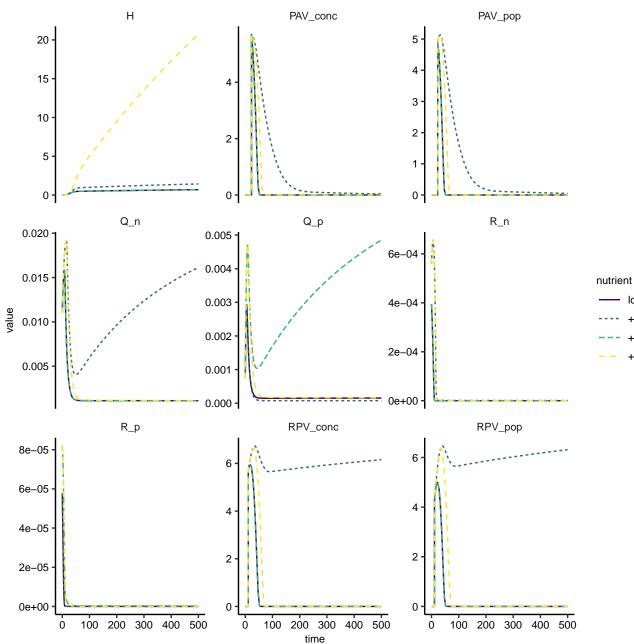


nutrient

low

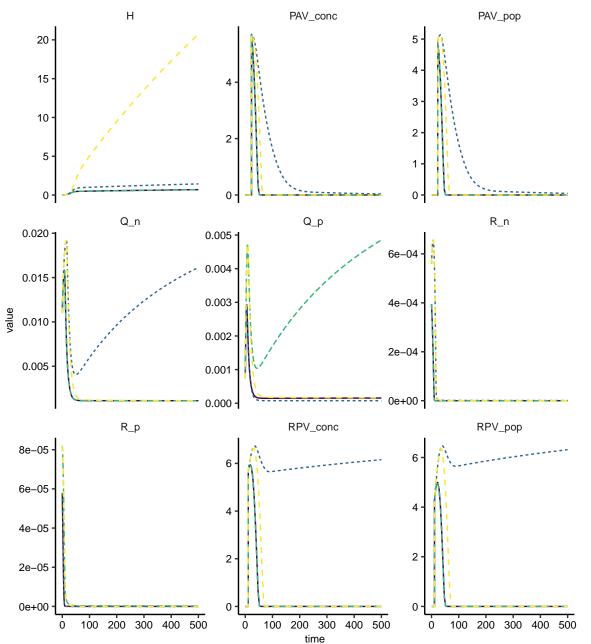
+N

z_nb = 1e-14; z_nc = 1e-18



+N

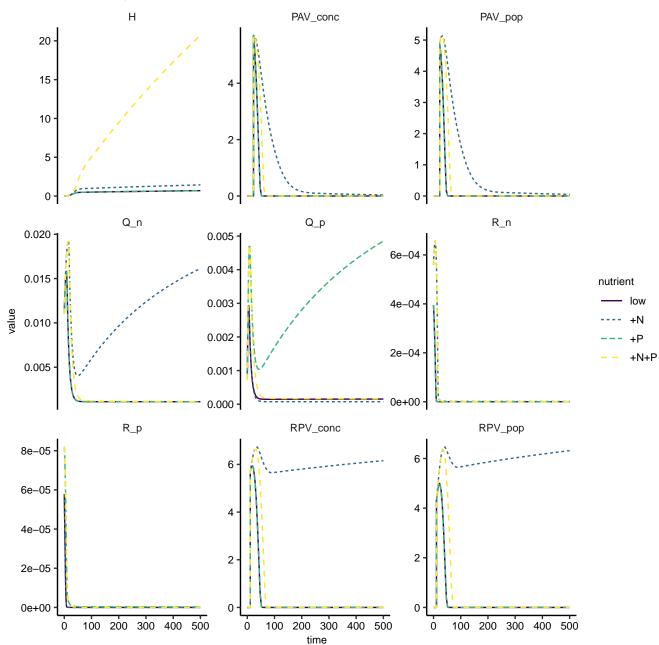
z_nb = 1e-14; z_nc = 1e-16



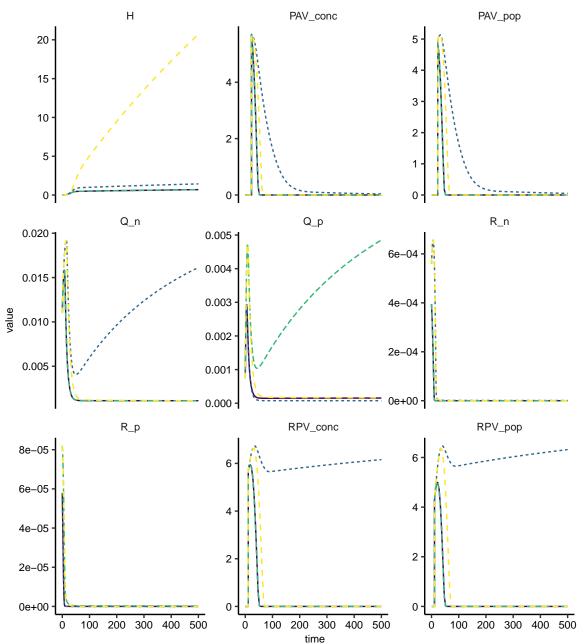
low

+N

z_nb = 1e-14; z_nc = 1e-14



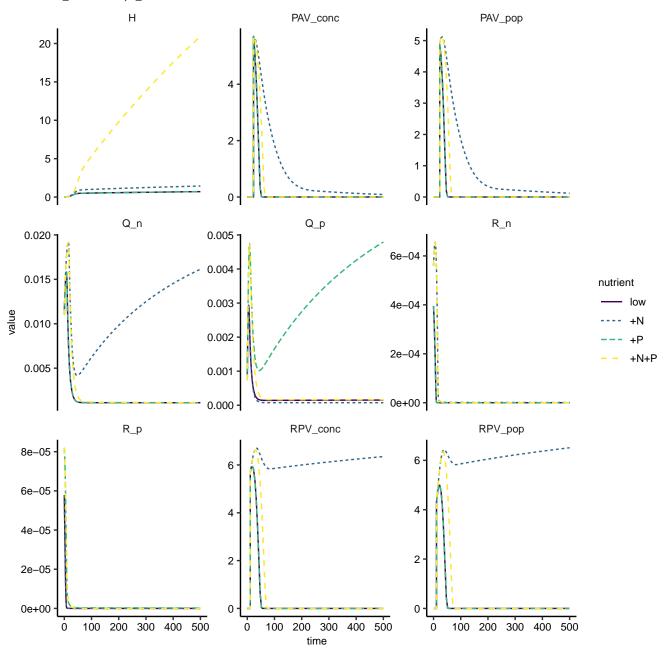
z_nb = 1e-14; z_nc = 1e-12 Н



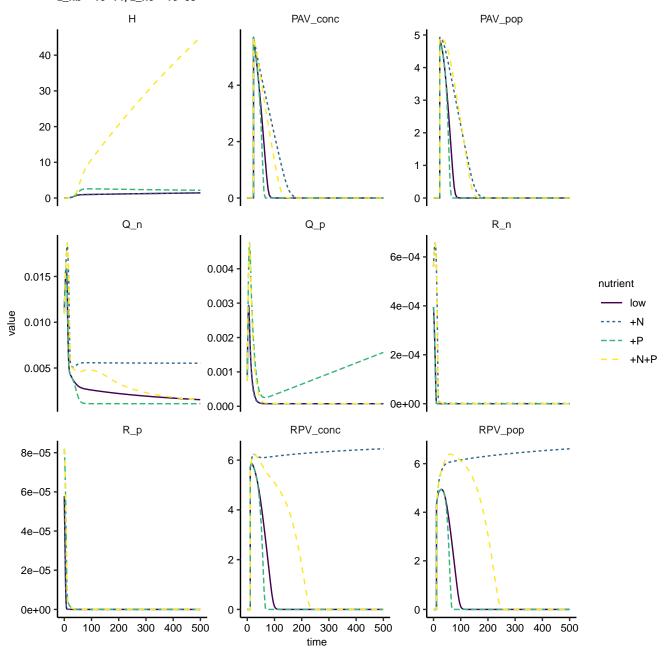
low

+N

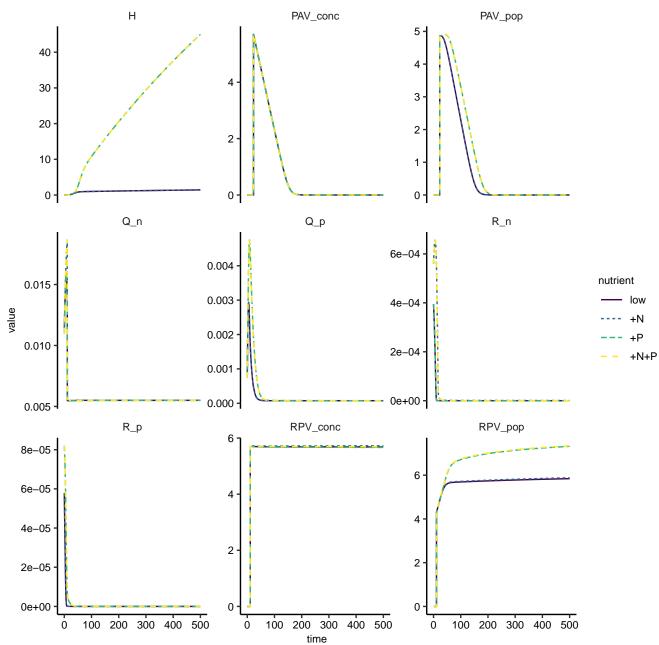
z_nb = 1e-14; z_nc = 1e-10



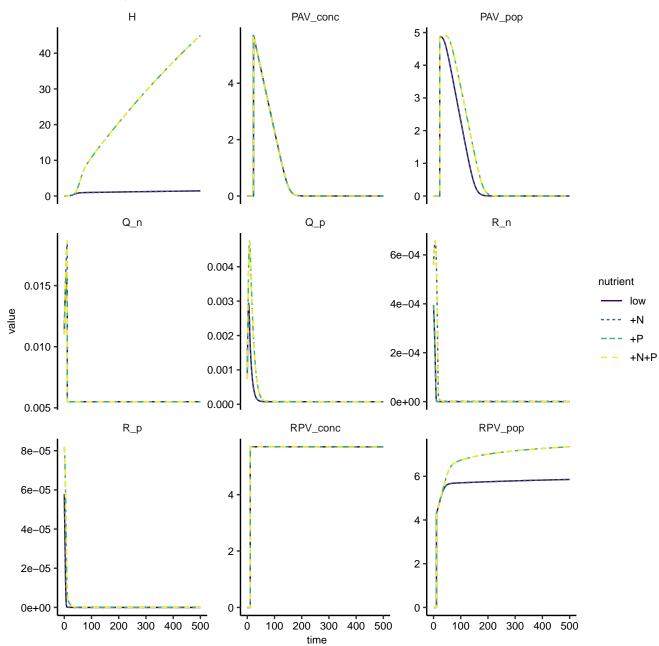
z_nb = 1e-14; z_nc = 1e-08



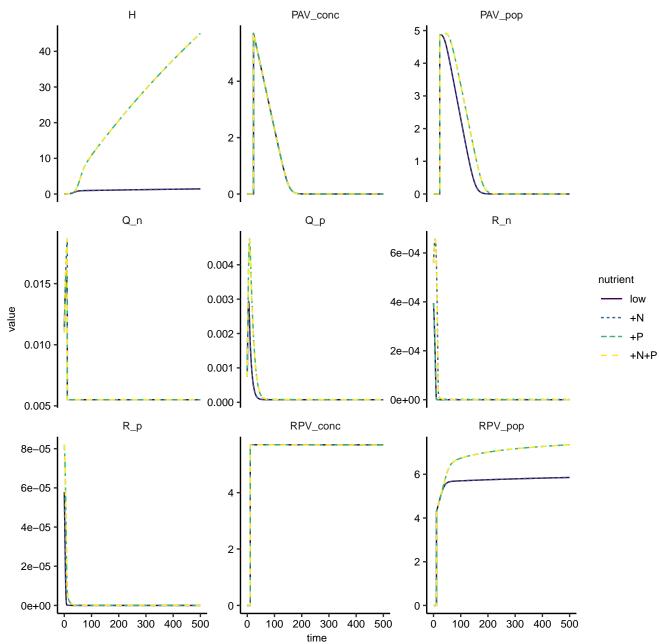
z_nb = 1e-14; z_nc = 1e-06



z_nb = 1e-14; z_nc = 1e-04



z_nb = 1e-14; z_nc = 0.01



z_nb = 1e-14; z_nc = 1 Н PAV_conc PAV_pop 5 -40 4 4 30 3 20 2 2 10 1 0 -Q_n Q_p R_n 6e-04 0.004 nutrient 0.015 0.003 low 4e-04 value +N 0.002 0.010 2e-04 +N+P 0.001 0e+00 0.000 -0.005 RPV_conc R_p RPV_pop 8e-05 6 6e-05 4 4 4e-05 2 2

300

time

400 500

100 200

300 400 500

100 200

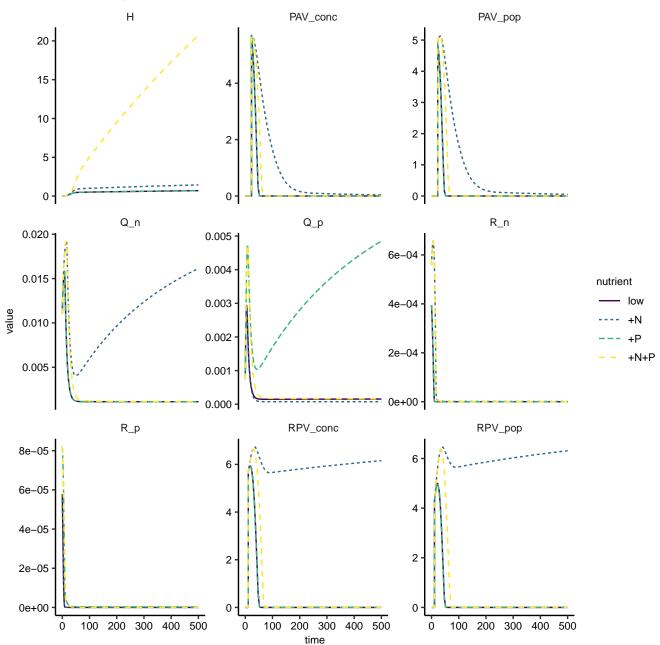
2e-05

0e+00

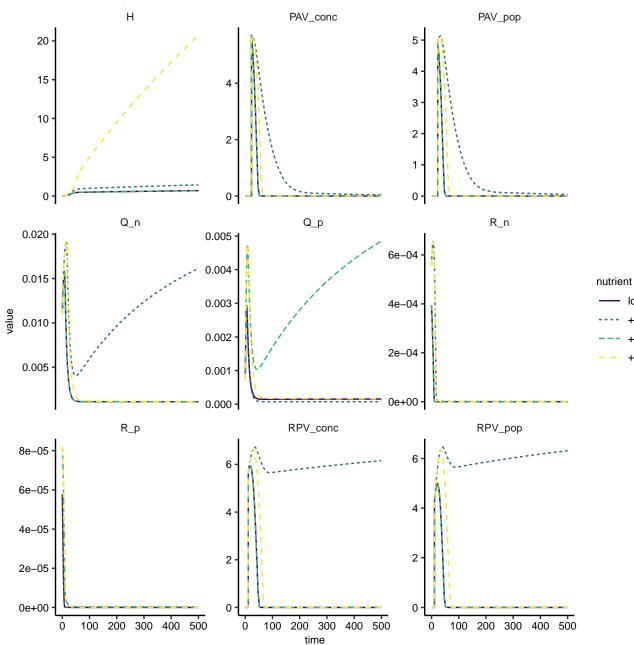
100 200

300 400 500

z_nb = 1e-12; z_nc = 1e-18

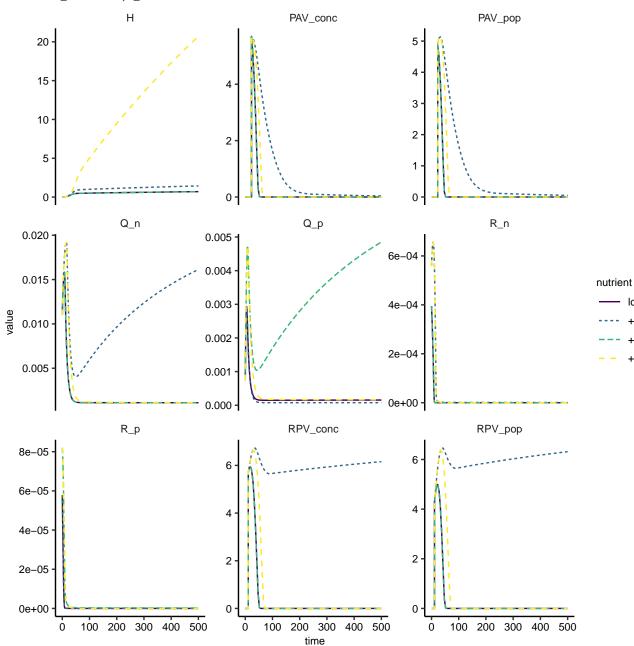


z_nb = 1e-12; z_nc = 1e-16



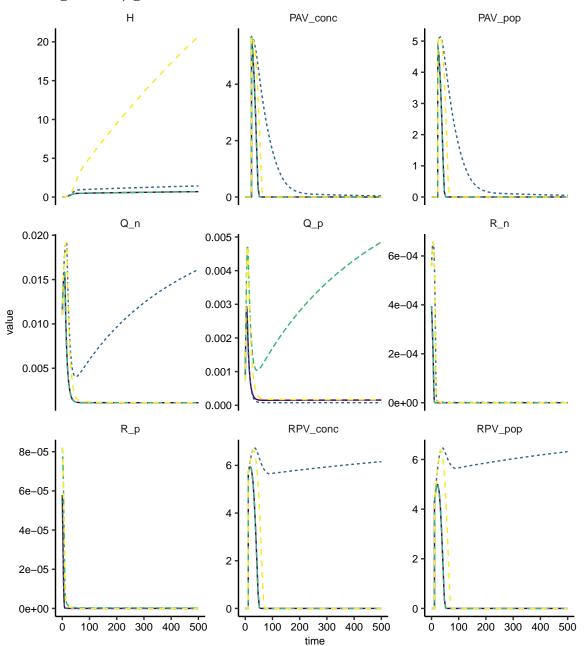
+N

z_nb = 1e-12; z_nc = 1e-14



+N

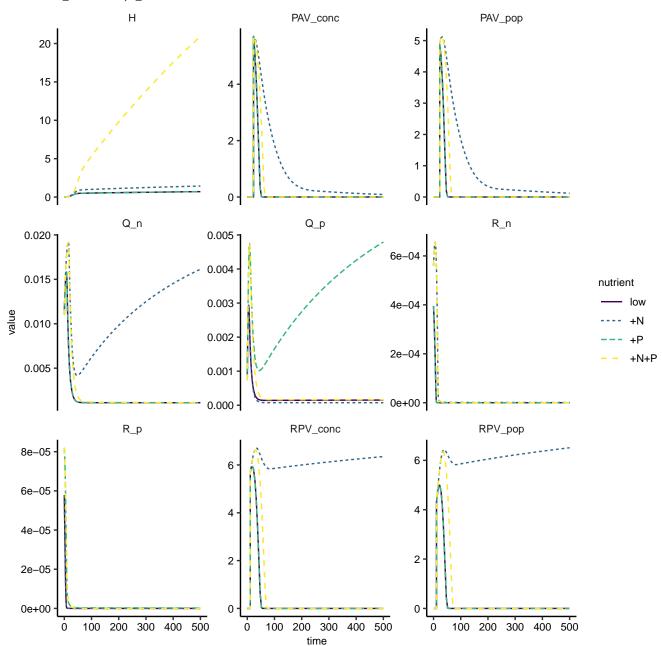
z_nb = 1e-12; z_nc = 1e-12



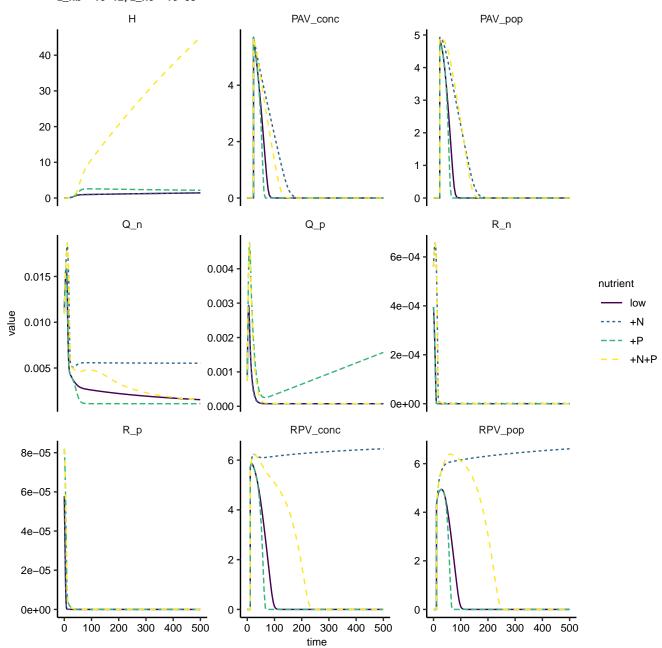
low

+N

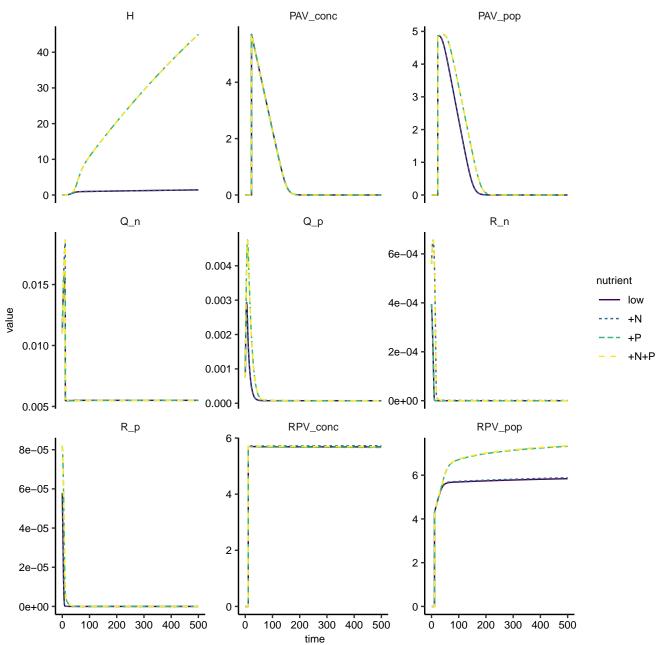
z_nb = 1e-12; z_nc = 1e-10



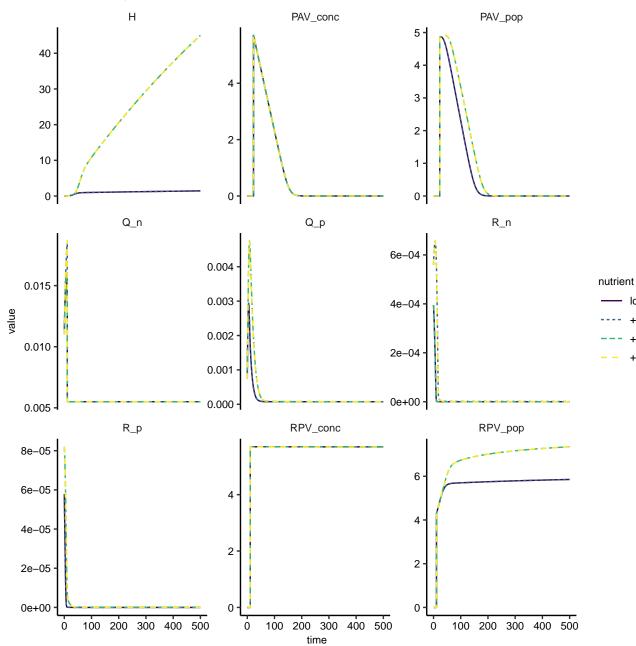
z_nb = 1e-12; z_nc = 1e-08



z_nb = 1e-12; z_nc = 1e-06

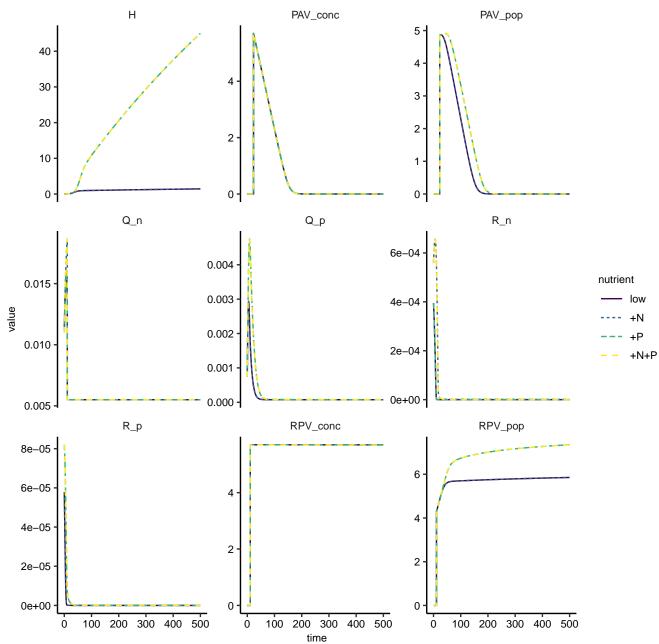


z_nb = 1e-12; z_nc = 1e-04



+N

z_nb = 1e-12; z_nc = 0.01



z_nb = 1e-12; z_nc = 1 Н PAV_conc PAV_pop 5 -40 4 4 30 3 20 2 2 10 1 0 -Q_n Q_p R_n 6e-04 0.004 nutrient 0.015 0.003 low 4e-04 value +N 0.002 0.010 2e-04 +N+P 0.001 0e+00 0.000 -0.005 RPV_conc R_p RPV_pop 8e-05 6 6e-05 4 4 4e-05 2 2 2e-05

300

time

400 500

100 200

300 400 500

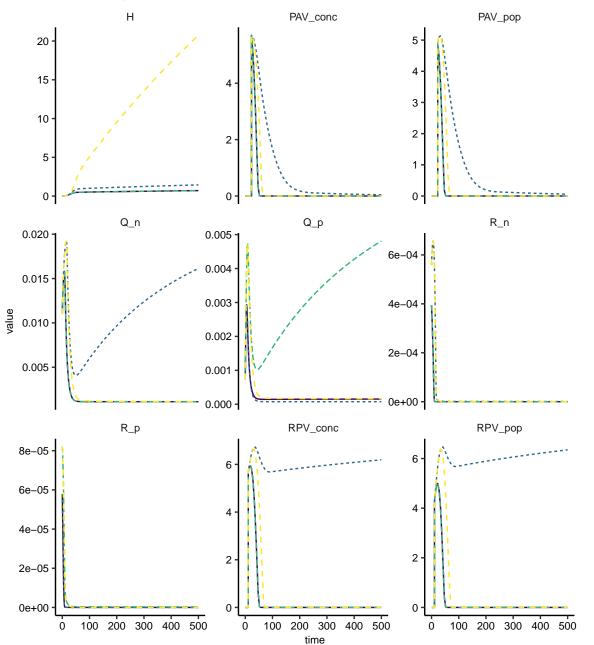
100 200

0e+00

100 200

300 400 500

z_nb = 1e-10; z_nc = 1e-18

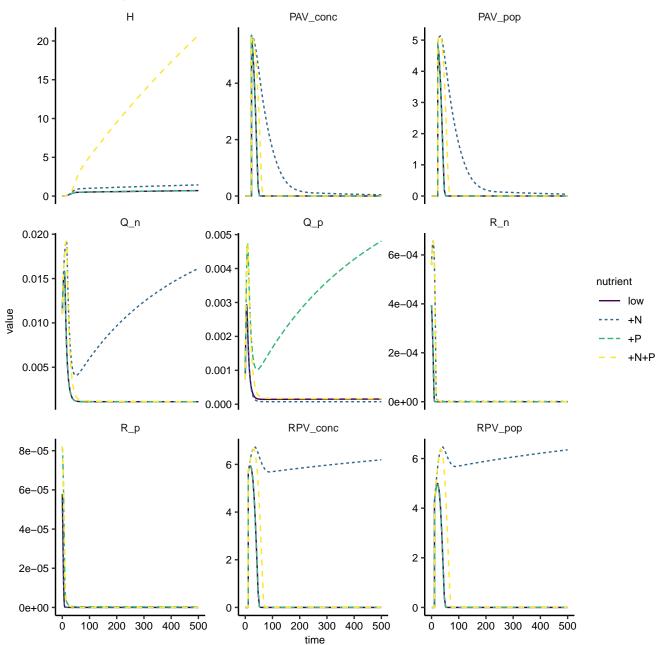


nutrient

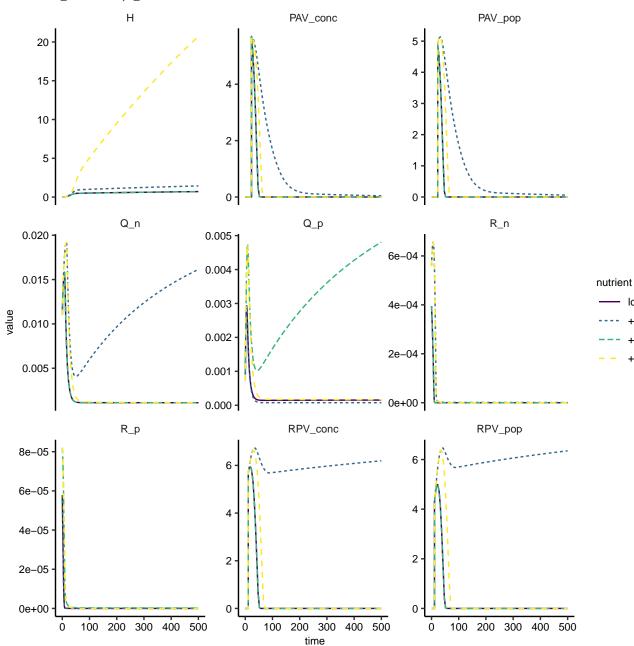
low

+N

z_nb = 1e-10; z_nc = 1e-16

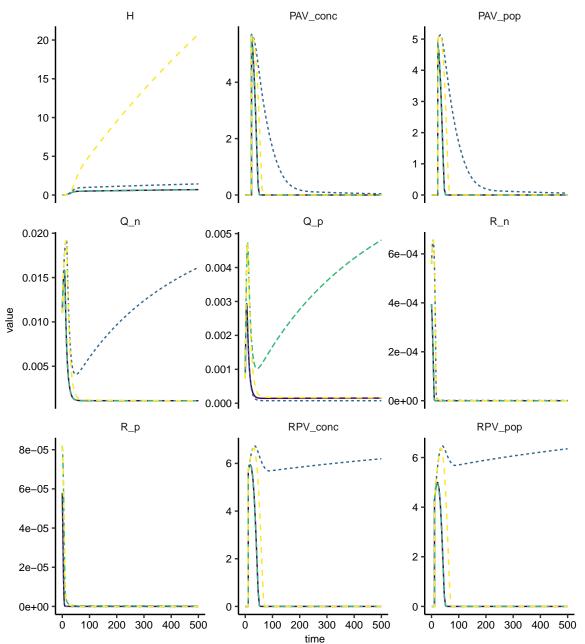


z_nb = 1e-10; z_nc = 1e-14



+N

z_nb = 1e-10; z_nc = 1e-12

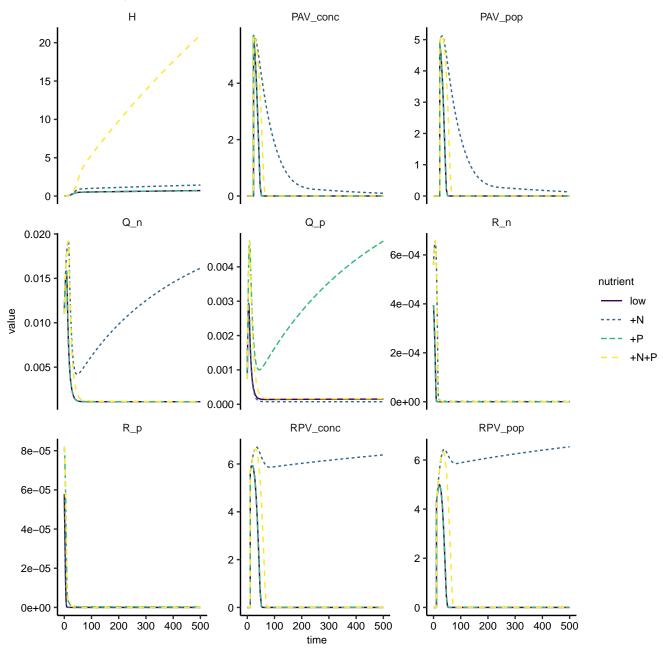


nutrient

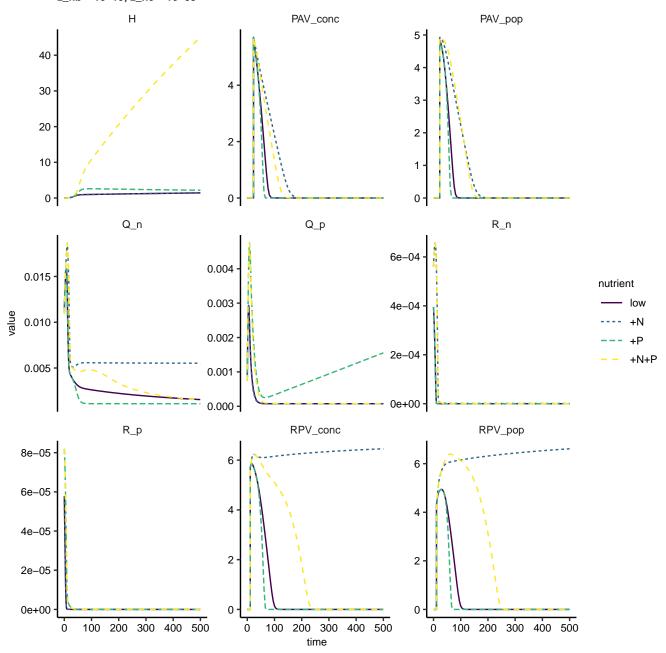
low

+N

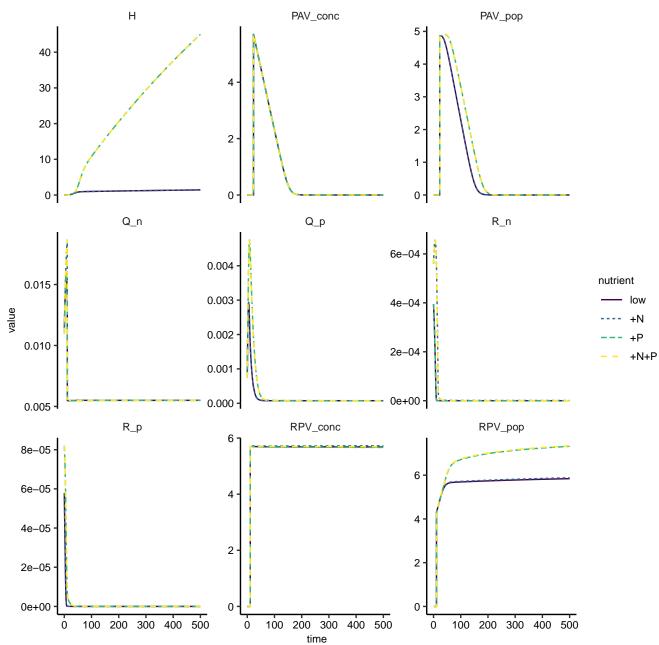
z_nb = 1e-10; z_nc = 1e-10



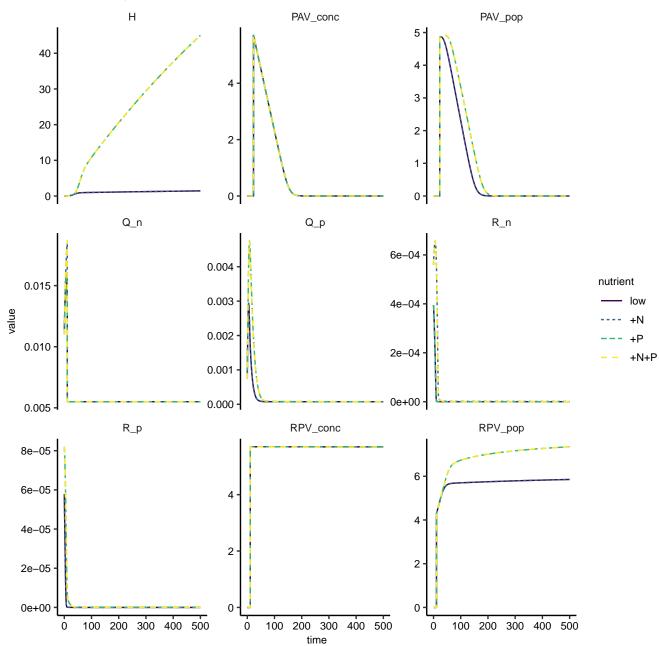
z_nb = 1e-10; z_nc = 1e-08



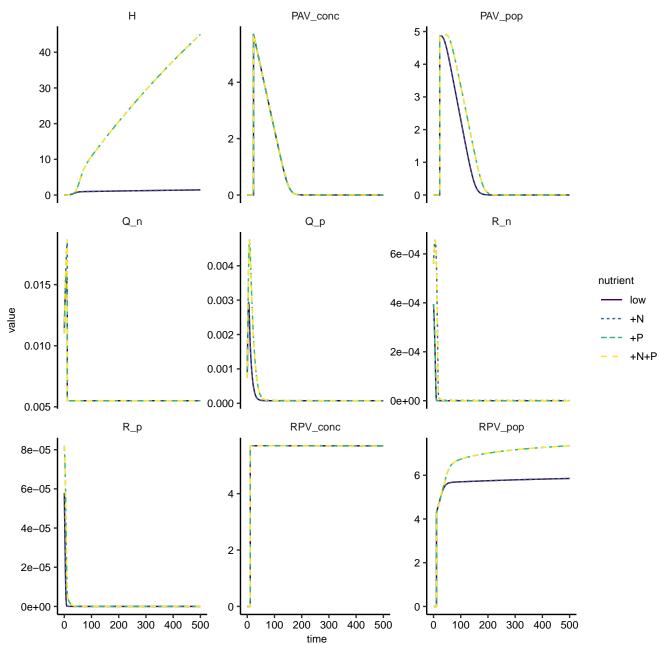
z_nb = 1e-10; z_nc = 1e-06



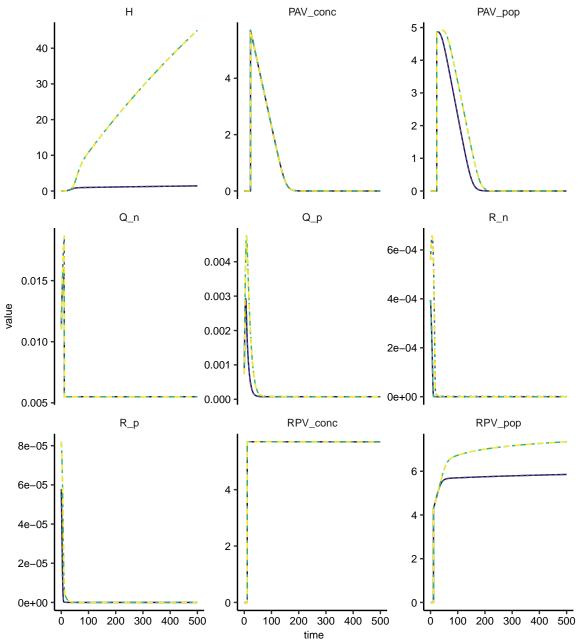
z_nb = 1e-10; z_nc = 1e-04



z_nb = 1e-10; z_nc = 0.01



z_nb = 1e-10; z_nc = 1 Н 40 30



nutrient

low

+N

z_nb = 1e-08; z_nc = 1e-18 Н PAV_conc PAV_pop 5 20 4 4 15 3 10 2 -2 5 · 1 0 -Q_n Q_p R_n 0.020 -6e-04 0.004 0.015 nutrient 0.003 low 4e-04 - 010.0 +N 0.002 2e-04 +N+P 0.005 0.001 0e+00 0.000 -RPV_conc R_p RPV_pop 8e-05 6 6 6e-05 4e-05 2 · 2 2e-05

100 200 300 400 500

0e+00

100 200

300 400 500

100 200 300

time

400 500

z_nb = 1e-08; z_nc = 1e-16 Н PAV_conc PAV_pop 5 20 4 4 15 3 10 2 -2 5 · 1 0 -Q_n Q_p R_n 0.020 -6e-04 0.004 0.015 nutrient 0.003 low 4e-04 - 010.0 +N 0.002 2e-04 +N+P 0.005 0.001 0e+00 0.000 -RPV_conc R_p RPV_pop 8e-05 6 6 6e-05 4e-05 2 · 2 2e-05

100 200 300 400 500

0e+00

100 200

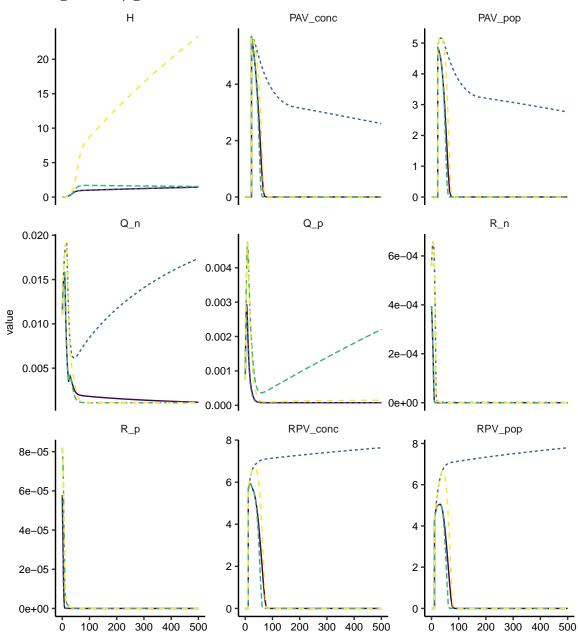
300 400 500

100 200 300

time

400 500

z_nb = 1e-08; z_nc = 1e-14 Н 20 15 10



time

nutrient

low

+N

z_nb = 1e-08; z_nc = 1e-12 Н PAV_conc PAV_pop 5 20 4 4 15 3 10 2 -2 5 · 1 0 -Q_n Q_p R_n 0.020 -6e-04 0.004 0.015 nutrient 0.003 low 4e-04 - 010.0 +N 0.002 2e-04 +N+P 0.005 0.001 0e+00 0.000 -RPV_conc R_p RPV_pop 8e-05 6 6 6e-05 4e-05 2 · 2 2e-05 0e+00

100 200

300 400 500

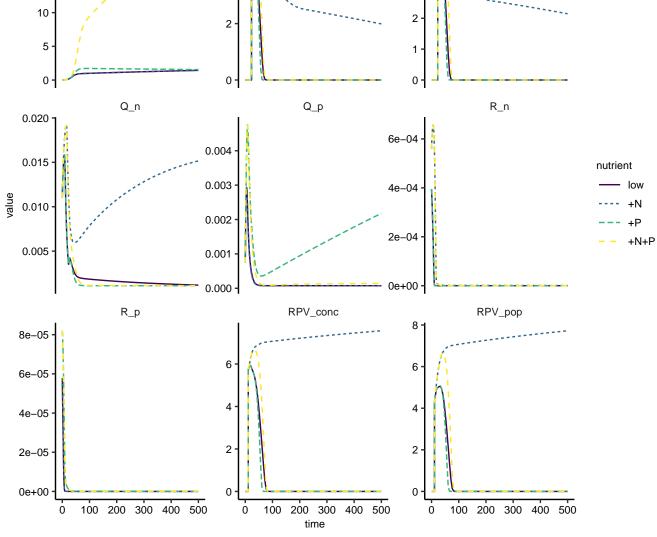
100 200 300

time

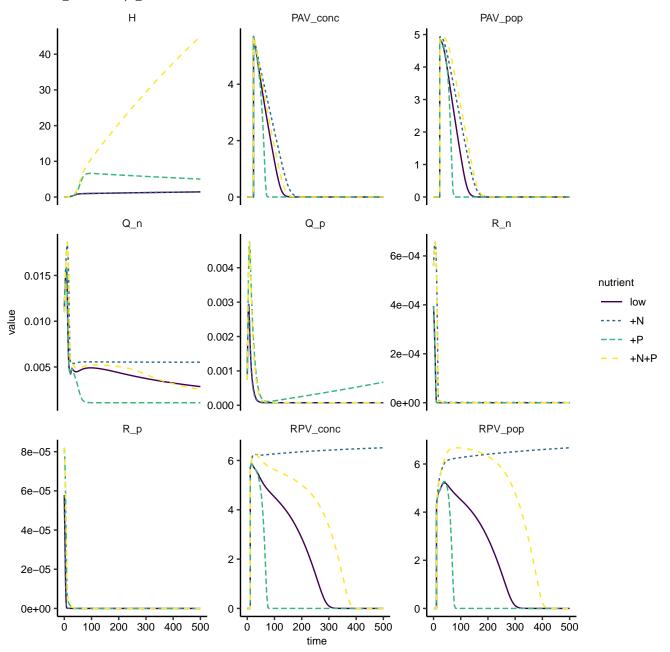
400 500

100 200 300 400 500

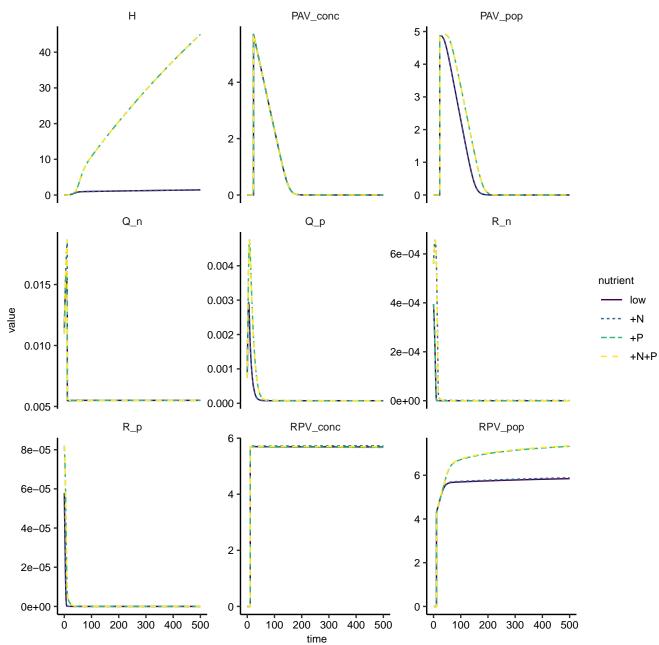
z_nb = 1e-08; z_nc = 1e-10 Н PAV_conc PAV_pop 25 -5 20 4 15 3 10 2 -2 5 1 0 -Q_n Q_p R_n 0.020 -6e-04 0.004 0.015 nutrient 0.003 low 4e-04 +N 0.002 2e-04 0.005 0.001 0e+00 0.000 -RPV_conc R_p RPV_pop 8e-05 6 6 6e-05



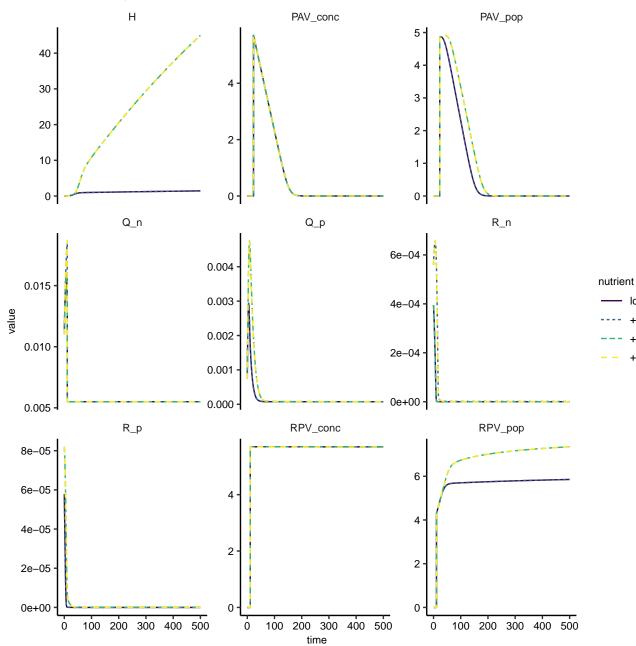
z_nb = 1e-08; z_nc = 1e-08



z_nb = 1e-08; z_nc = 1e-06

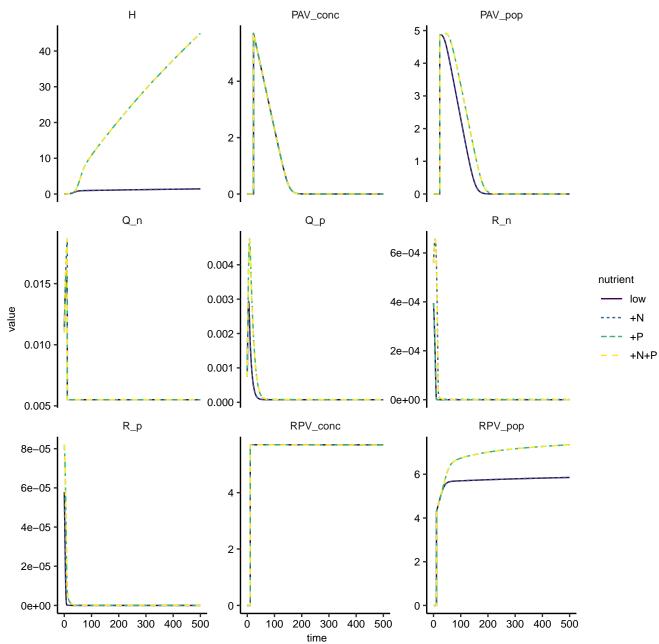


z_nb = 1e-08; z_nc = 1e-04



+N

z_nb = 1e-08; z_nc = 0.01



z_nb = 1e-08; z_nc = 1 Н PAV_conc PAV_pop 5 -40 4 4 30 3 20 2 2 10 1 0 -Q_n Q_p R_n 6e-04 0.004 nutrient 0.015 0.003 low 4e-04 value +N 0.002 0.010 2e-04 +N+P 0.001 0e+00 0.000 -0.005 RPV_conc R_p RPV_pop 8e-05 6 6e-05 4 4 4e-05 2 2 2e-05

300

time

400 500

100 200

300 400 500

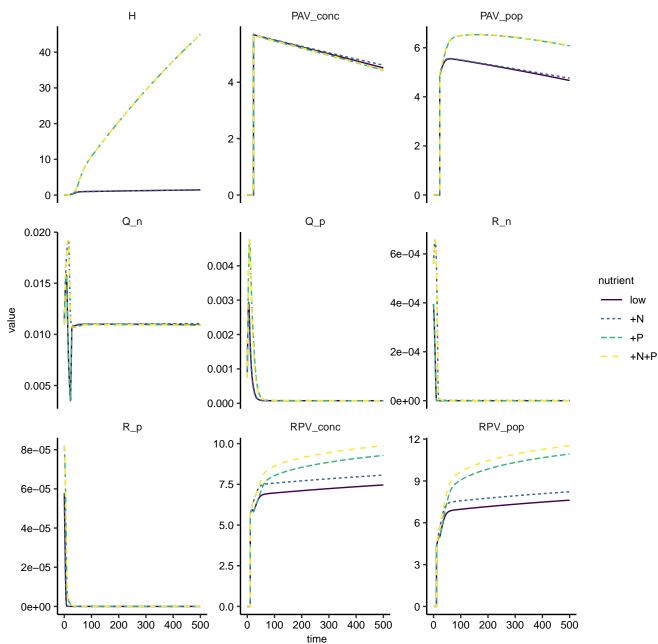
100 200

0e+00

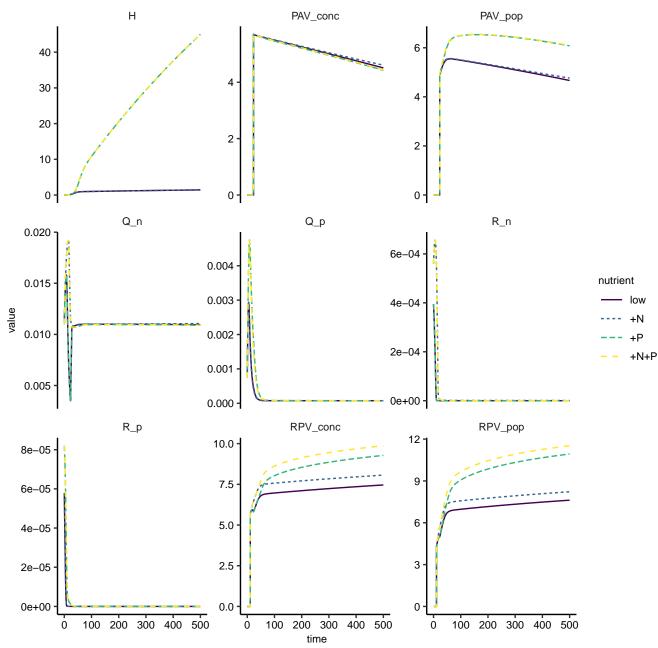
100 200

300 400 500

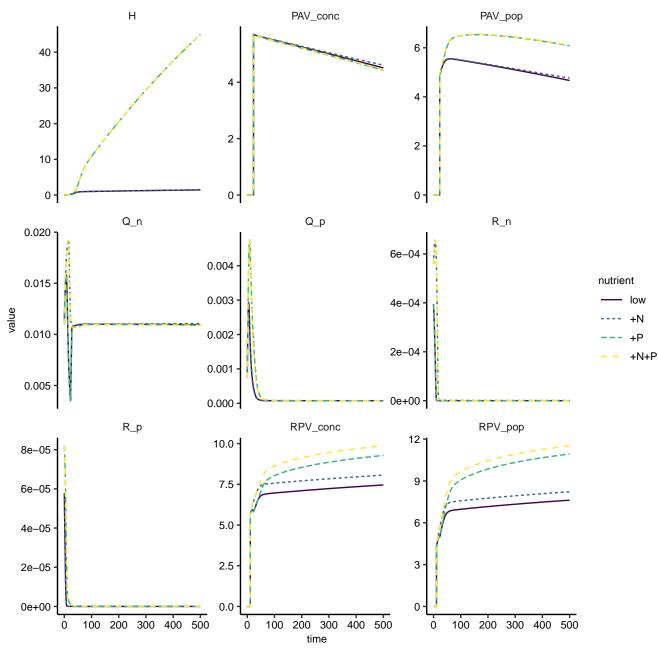
z_nb = 1e-06; z_nc = 1e-18



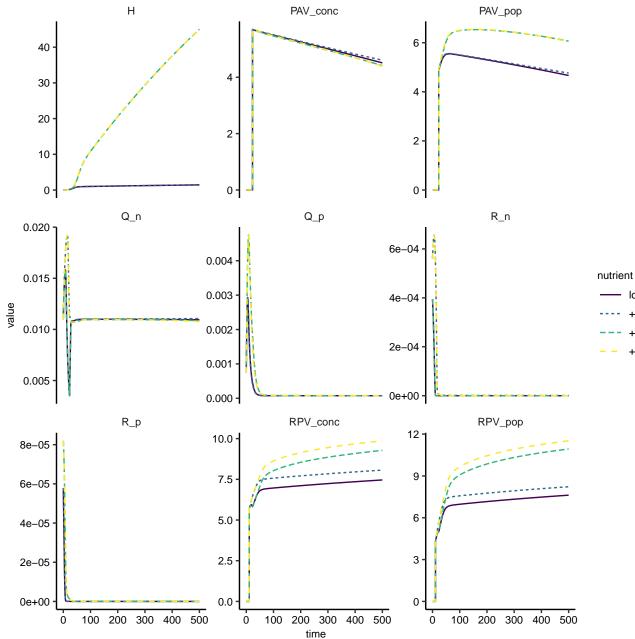
z_nb = 1e-06; z_nc = 1e-16



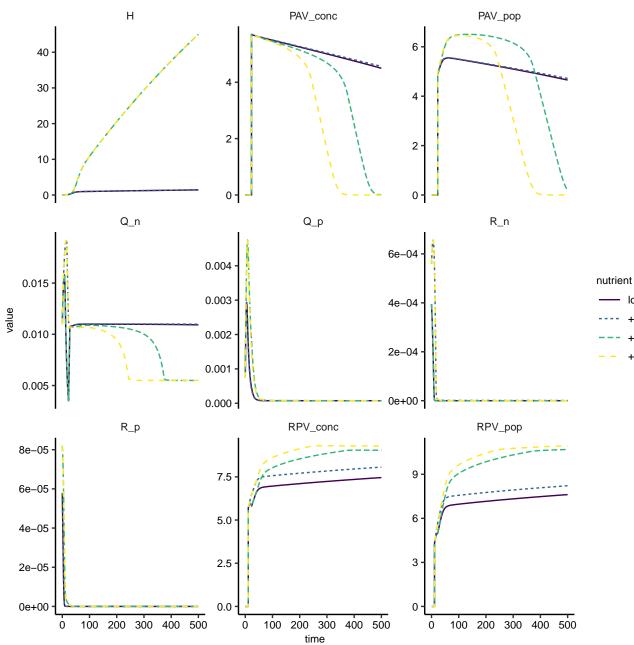
z_nb = 1e-06; z_nc = 1e-14



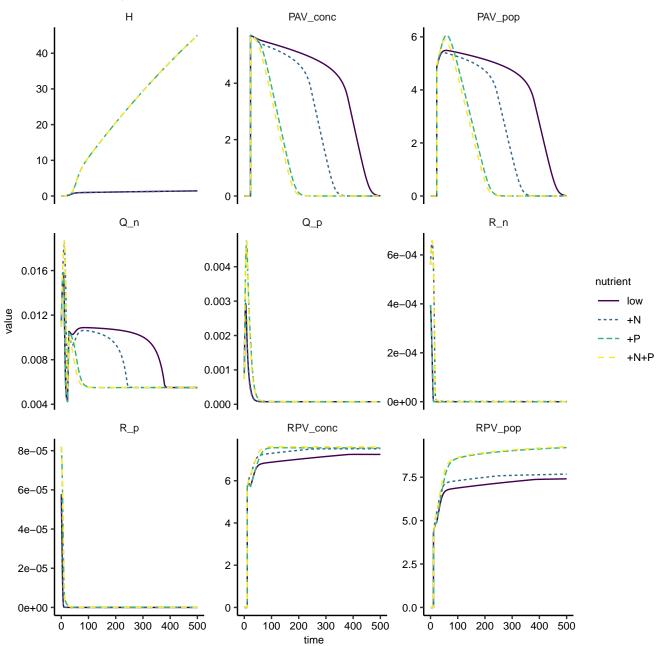
z_nb = 1e-06; z_nc = 1e-12



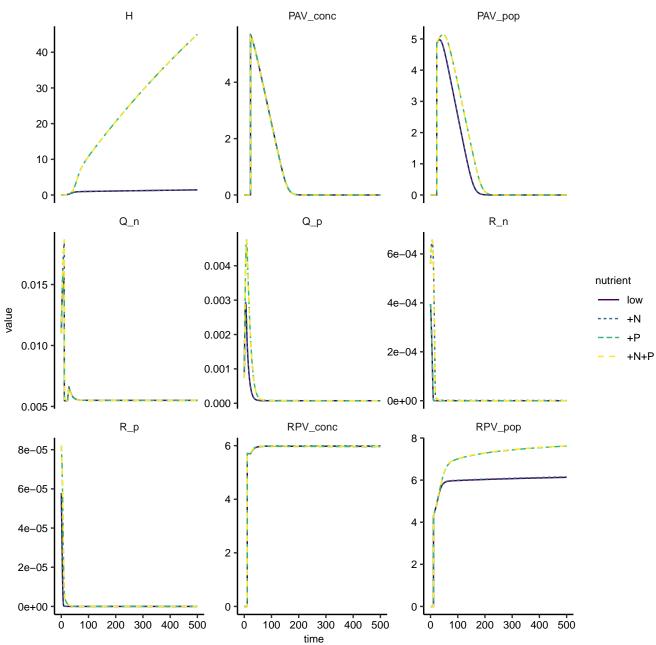
z_nb = 1e-06; z_nc = 1e-10



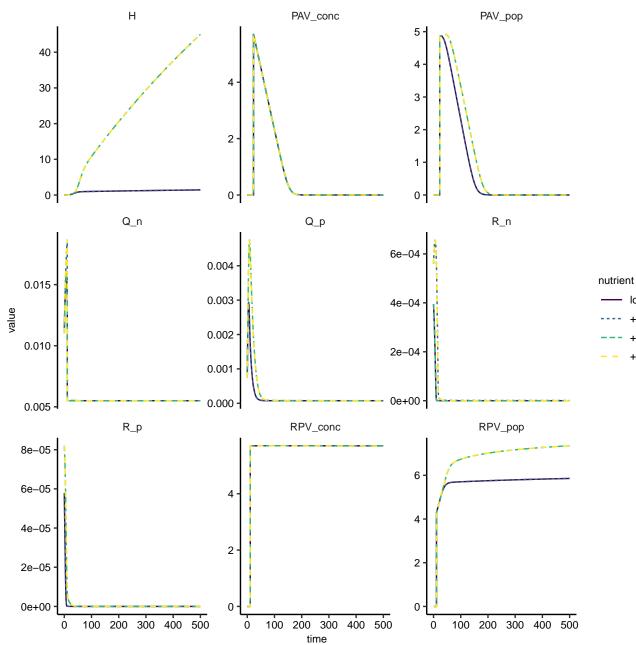
z_nb = 1e-06; z_nc = 1e-08



z_nb = 1e-06; z_nc = 1e-06

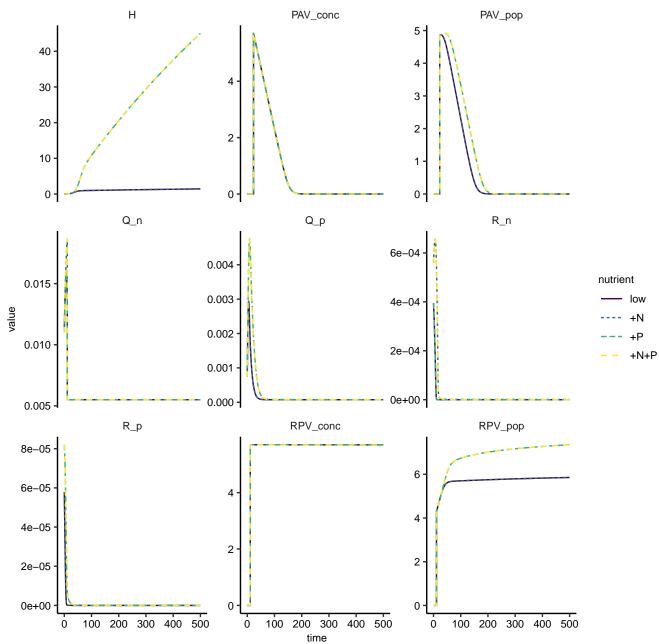


z_nb = 1e-06; z_nc = 1e-04



+N

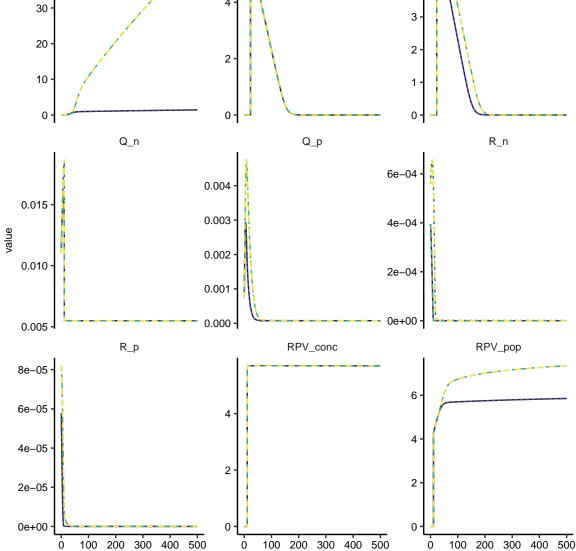
z_nb = 1e-06; z_nc = 0.01



z_nb = 1e-06; z_nc = 1 Н PAV_conc PAV_pop 5 -40 4 4 30 3 20 2 2 10 1 0 -Q_n Q_p R_n 6e-04 0.004 nutrient 0.015 0.003 4e-04 value 0.002 0.010 2e-04 0.001 0e+00 0.000 -0.005 RPV_conc R_p RPV_pop 8e-05 6

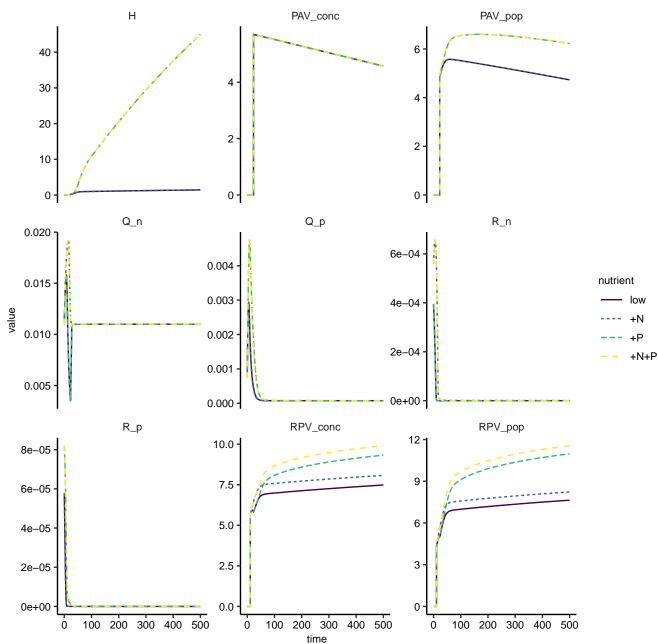
+N

+N+P

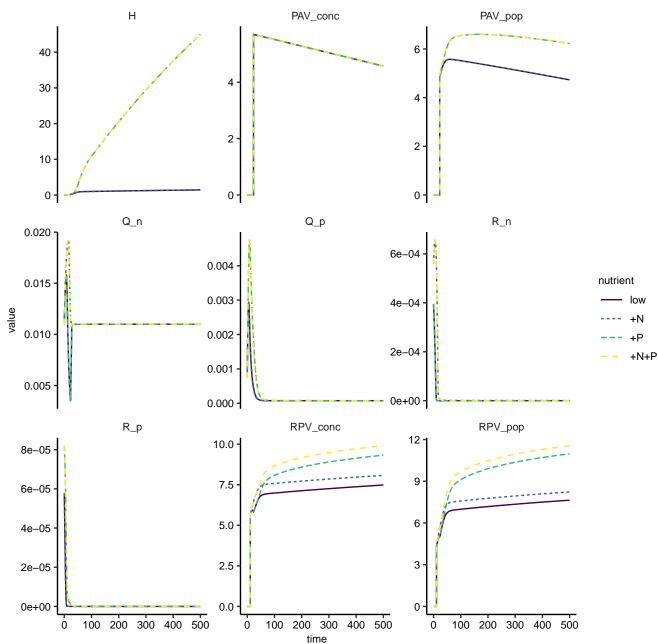


time

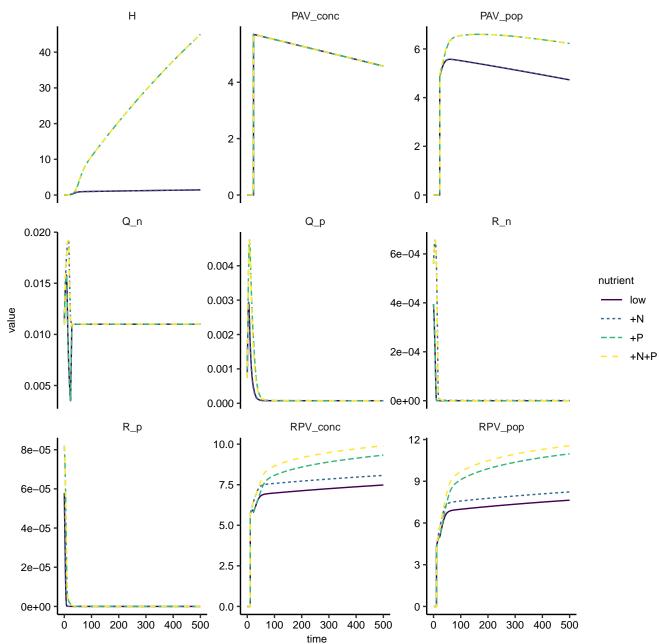
z_nb = 1e-04; z_nc = 1e-18



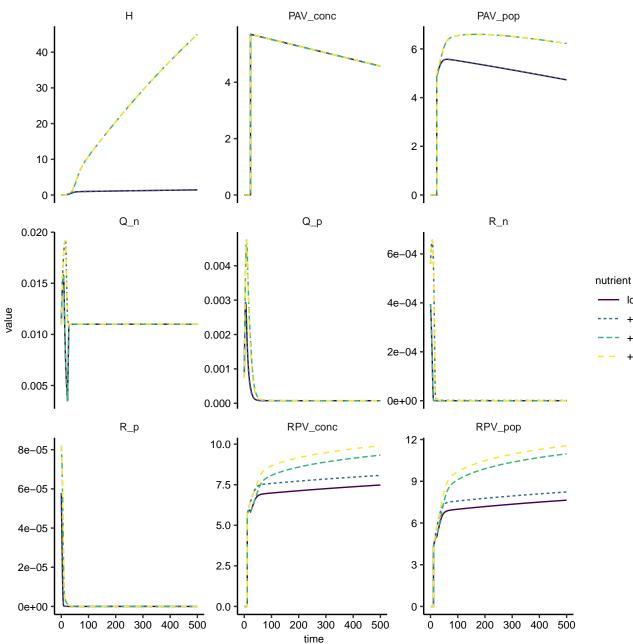
z_nb = 1e-04; z_nc = 1e-16



z_nb = 1e-04; z_nc = 1e-14

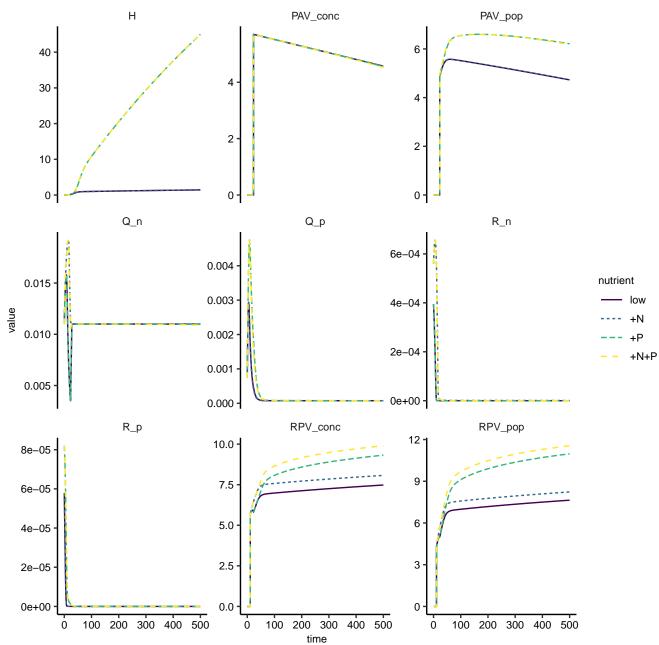


z_nb = 1e-04; z_nc = 1e-12

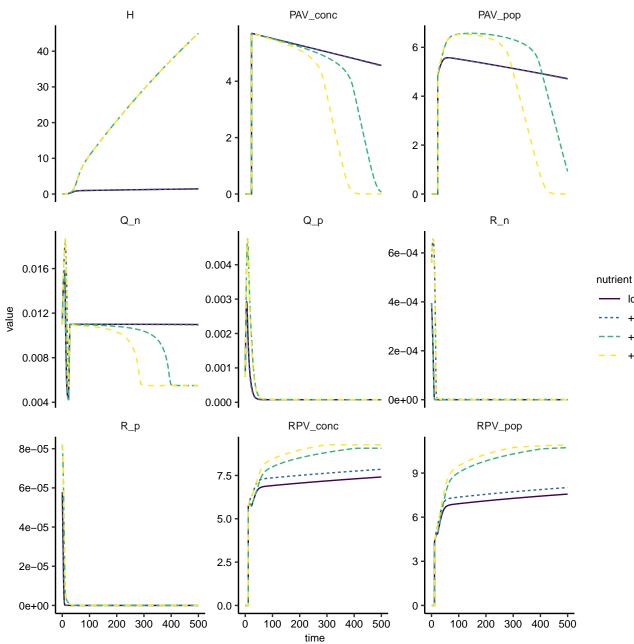


low

z_nb = 1e-04; z_nc = 1e-10

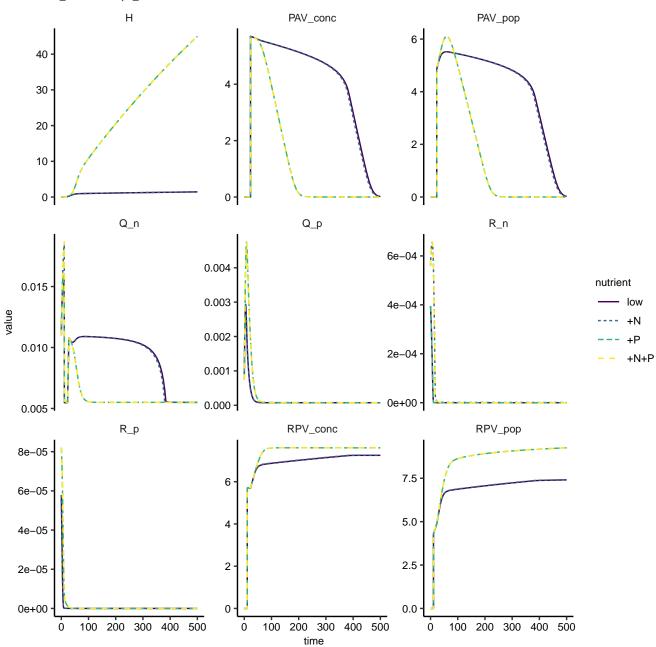


z_nb = 1e-04; z_nc = 1e-08

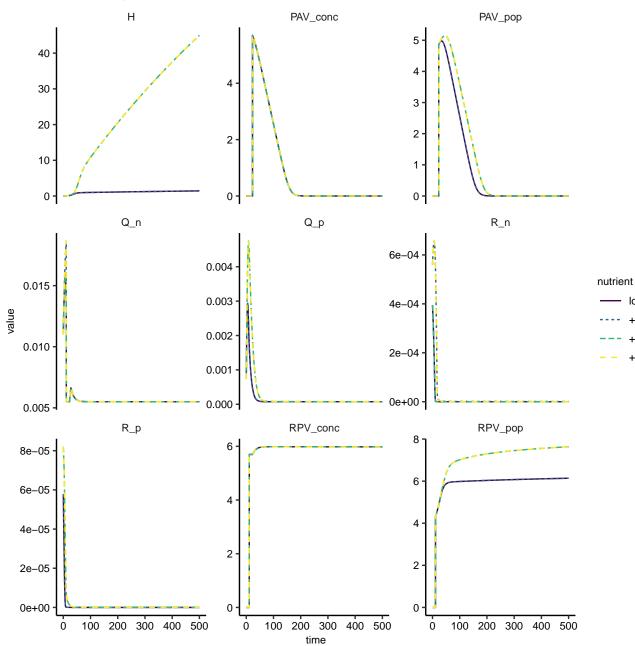


low

z_nb = 1e-04; z_nc = 1e-06



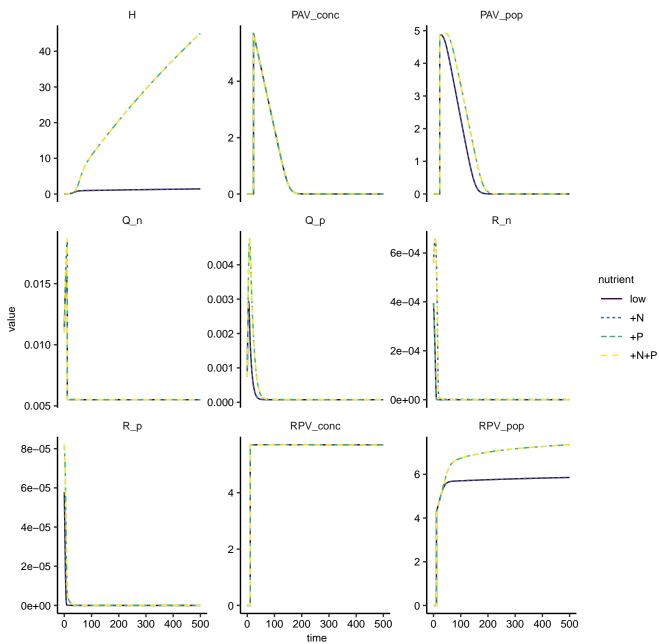
z_nb = 1e-04; z_nc = 1e-04



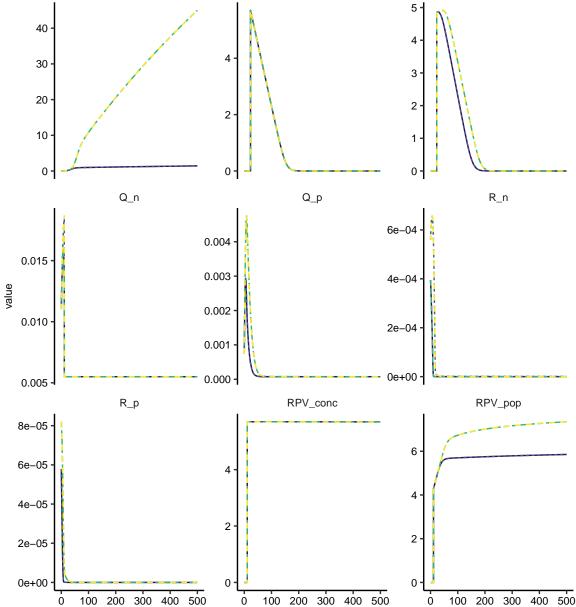
low

+N

z_nb = 1e-04; z_nc = 0.01



z_nb = 1e-04; z_nc = 1 Н PAV_conc 40 4 30 20 2 10 0 -Q_n 0.004



time

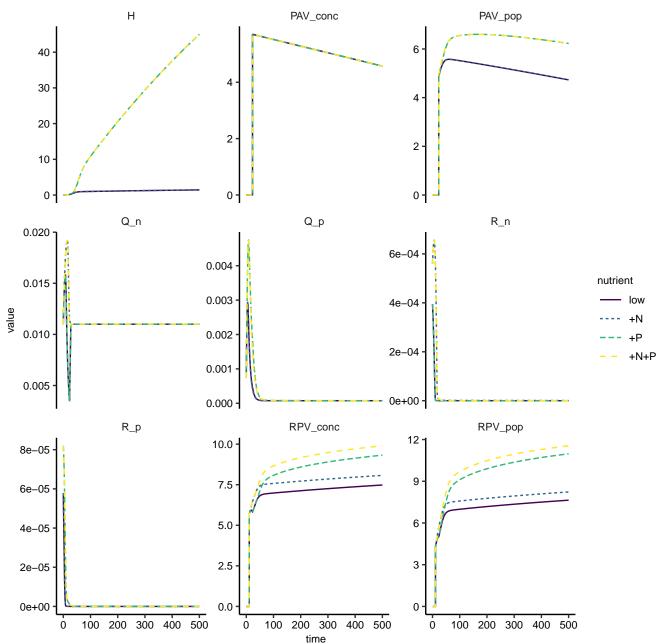
PAV_pop

nutrient

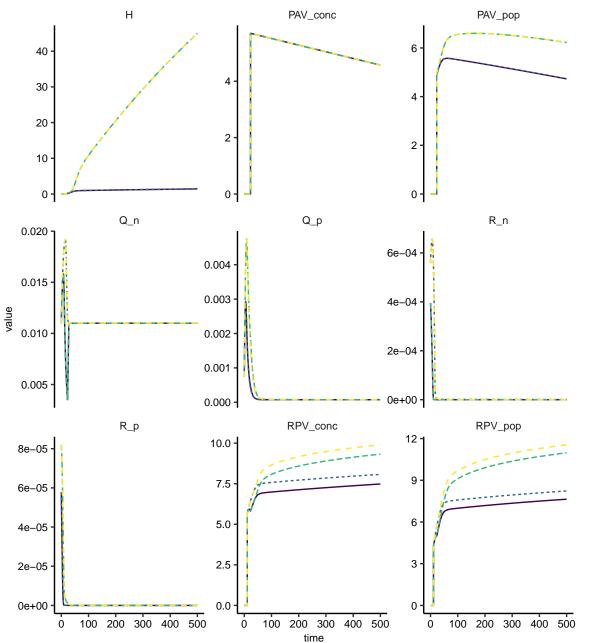
low

+N

z_nb = 0.01; z_nc = 1e-18



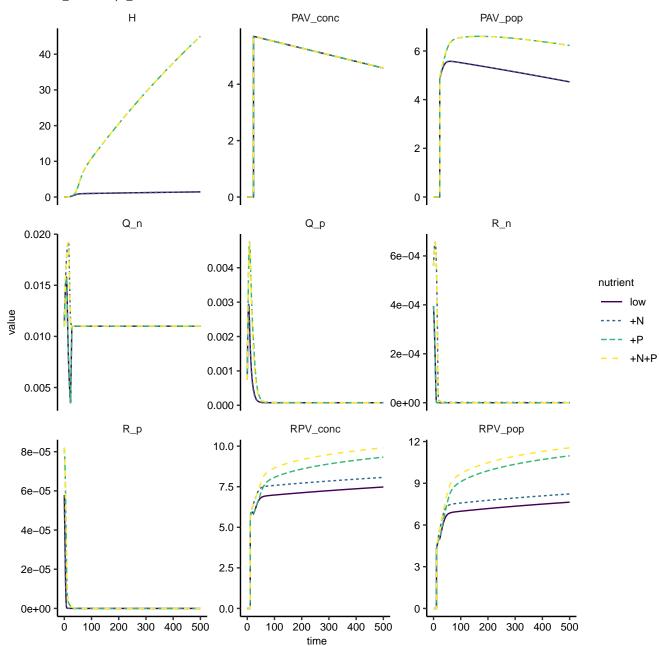
z_nb = 0.01; z_nc = 1e-16 Н



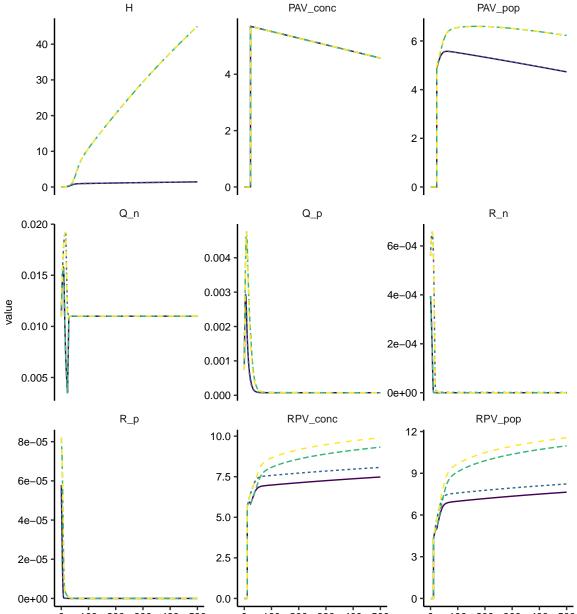
nutrient

low

z_nb = 0.01; z_nc = 1e-14

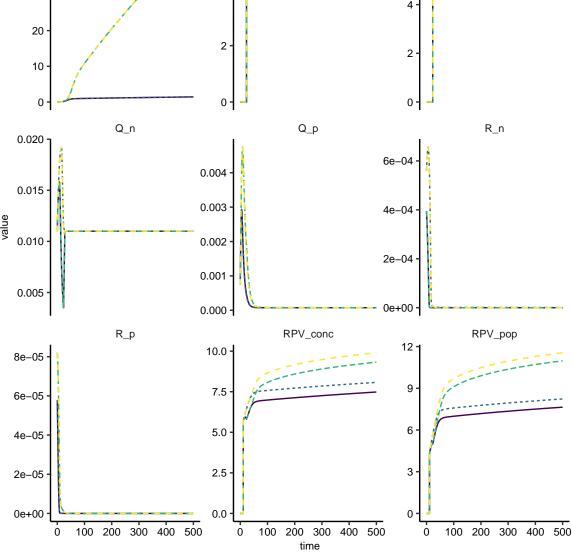


z_nb = 0.01; z_nc = 1e-12 Н PAV_conc 40 4 30 20 2 10 0 -Q_n Q_p 0.020 0.004 0.015

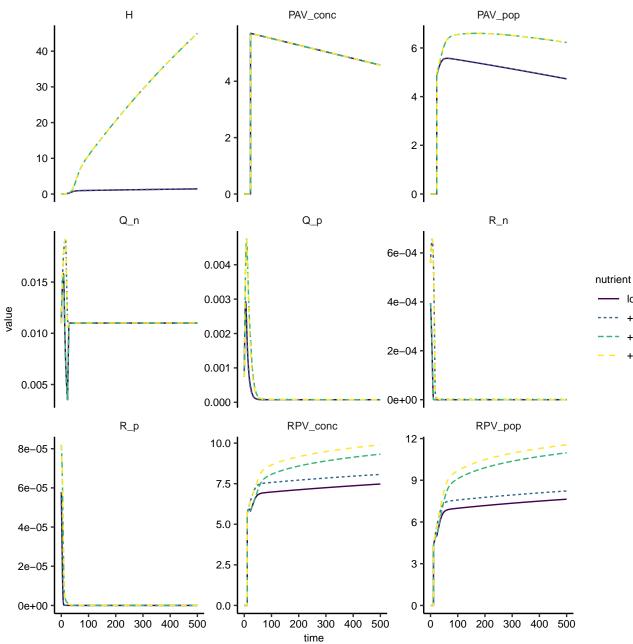


nutrient

low

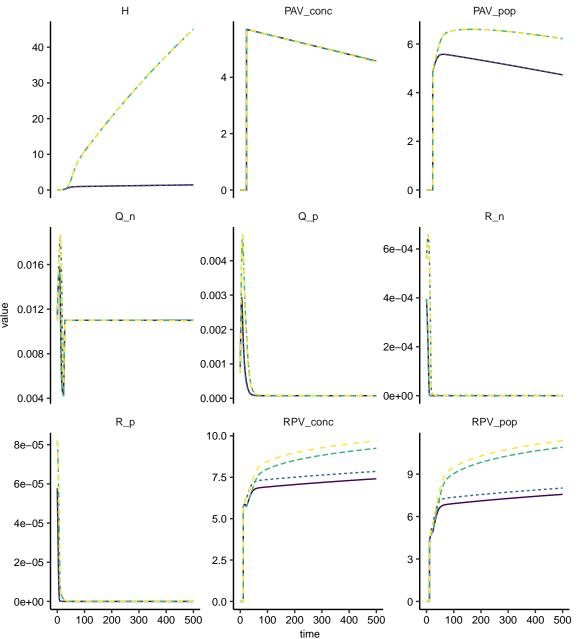


z_nb = 0.01; z_nc = 1e-10 Н



low

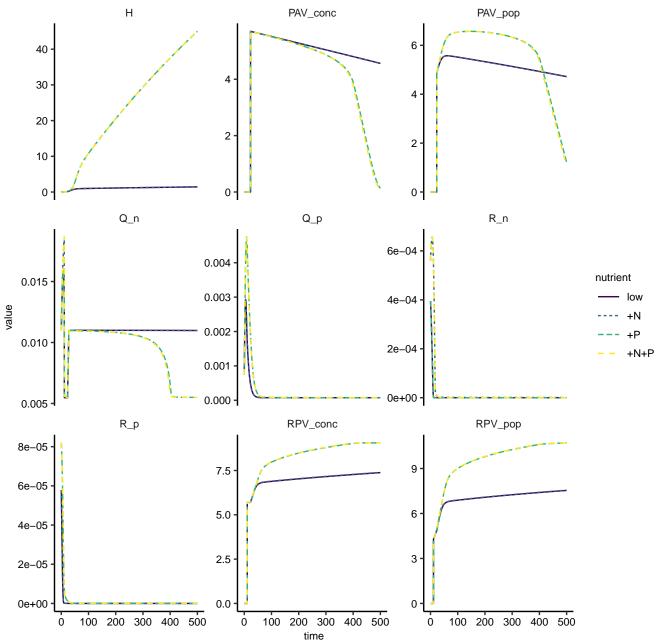
z_nb = 0.01; z_nc = 1e-08 H



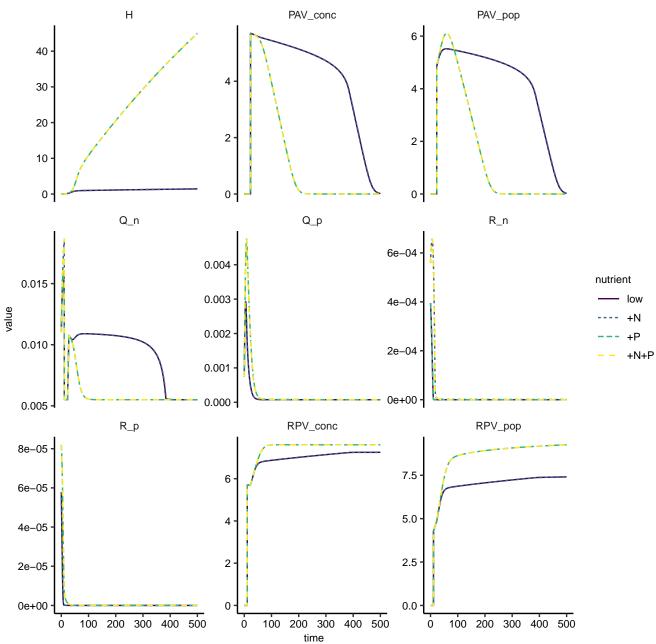
nutrient

low

z_nb = 0.01; z_nc = 1e-06

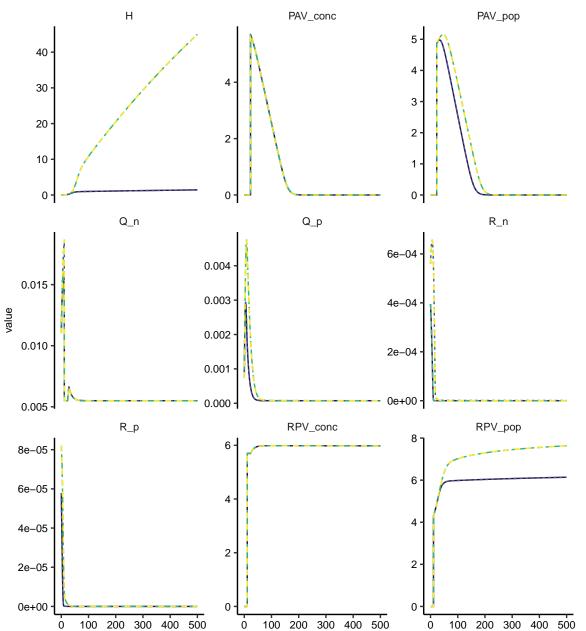


z_nb = 0.01; z_nc = 1e-04



low

z_nb = 0.01; z_nc = 0.01 Н



time

nutrient

low

+N

z_nb = 0.01; z_nc = 1 Н PAV_conc PAV_pop 5 -40 4 4 30 3 20 2 2 10 1 0 -Q_n Q_p R_n 6e-04 0.004 nutrient 0.015 0.003 low 4e-04 value +N 0.002 0.010 2e-04 +N+P 0.001 0e+00 0.000 -0.005 RPV_conc R_p RPV_pop 8e-05 6 6e-05 4 4 4e-05 2 2 2e-05 0e+00

time

400 500

100 200

100 200

300 400 500

100 200

300 400 500

z_nb = 1; z_nc = 1e-18 Н PAV_conc PAV_pop 6 40 4 30 4 20 2 2 10 0 -Q_n Q_p R_n 0.020 6e-04 0.004 nutrient 0.015 0.003 low 4e-04 value 0.010 0.002 2e-04 +N+P 0.001 0.005 0e+00 0.000 R_p RPV_conc RPV_pop 12 7 10.0 -8e-05 9 7.5 6e-05 6 5.0 4e-05 3 2e-05 2.5

time

400 500

100 200 300 400 500

100 200

0.0

300 400 500

0e+00

z_nb = 1; z_nc = 1e-16 Н PAV_conc PAV_pop 6 40 4 30 4 20 2 2 10 0 -Q_n Q_p R_n 0.020 6e-04 0.004 nutrient 0.015 0.003 low 4e-04 value 0.010 0.002 2e-04 +N+P 0.001 0.005 0e+00 0.000 R_p RPV_conc RPV_pop 12 7 10.0 -8e-05 9 7.5 6e-05 6 5.0 4e-05 3 2e-05 2.5

time

400 500

100 200 300 400 500

100 200

0.0

300 400 500

0e+00

z_nb = 1; z_nc = 1e-14 Н PAV_conc PAV_pop 6 40 4 30 4 20 2 2 10 0 -Q_n Q_p R_n 0.020 6e-04 0.004 nutrient 0.015 0.003 low 4e-04 value 0.010 0.002 2e-04 +N+P 0.001 0.005 0e+00 0.000 R_p RPV_conc RPV_pop 12 7 10.0 -8e-05 9 7.5 6e-05 6 5.0 4e-05 3 2e-05 2.5

time

400 500

100 200 300 400 500

100 200

0.0

300 400 500

0e+00

z_nb = 1; z_nc = 1e-12 Н PAV_conc PAV_pop 6 40 4 30 4 20 2 2 10 0 -Q_n Q_p R_n 0.020 6e-04 0.004 nutrient 0.015 0.003 low 4e-04 value 0.010 0.002 2e-04 +N+P 0.001 0.005 0e+00 0.000 R_p RPV_conc RPV_pop 12 7 10.0 -8e-05 9 7.5 6e-05 6 5.0 4e-05 3 2e-05 2.5 0e+00 0.0

time

400 500

100 200 300 400 500

100 200

100 200

300 400 500

z_nb = 1; z_nc = 1e-10 Н PAV_conc PAV_pop 6 40 4 30 4 20 2 2 10 0 -Q_n Q_p R_n 6e-04 0.004 nutrient 0.015 0.003 low 4e-04 value 0.010 0.002 2e-04 +N+P 0.001 0.005 0e+00 0.000 R_p RPV_conc RPV_pop 12 7 10.0 -8e-05 9 7.5 6e-05 6 5.0 4e-05 3 2e-05 2.5

time

400 500

100 200 300 400 500

100 200

0.0

300 400 500

0e+00

z_nb = 1; z_nc = 1e-08 Н PAV_conc PAV_pop 6 40 4 30 4 20 2 2 10 0 -Q_n Q_p R_n 6e-04 0.004 0.016 nutrient 0.003 low 4e-04 0.012 0.002 2e-04 +N+P 0.008 0.001 0e+00 0.004 -0.000 R_p RPV_conc RPV_pop 10.0 8e-05 9 7.5 6e-05 6 5.0 4e-05

2.5

0.0

100 200

100 200 300 400 500

2e-05

0e+00

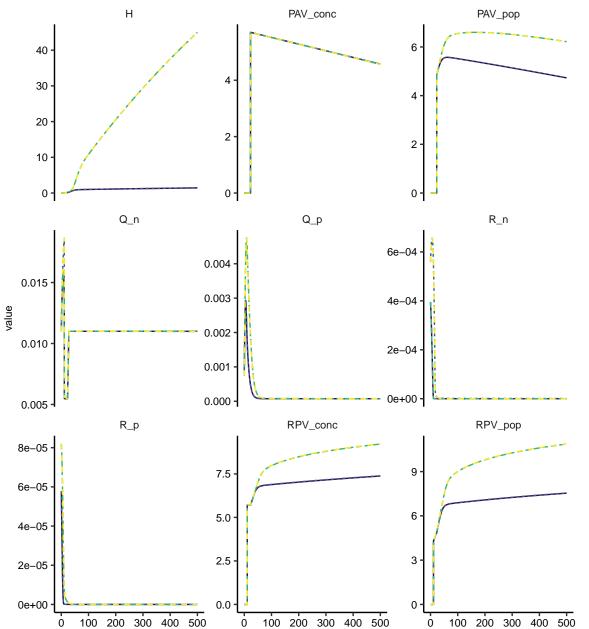
3

100 200 300 400 500

300 400 500

time

z_nb = 1; z_nc = 1e-06 Н 40 30



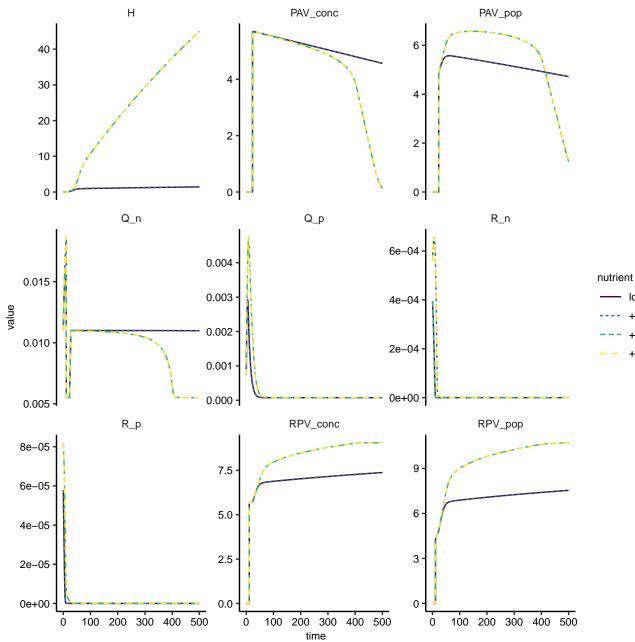
time

nutrient

low

+N

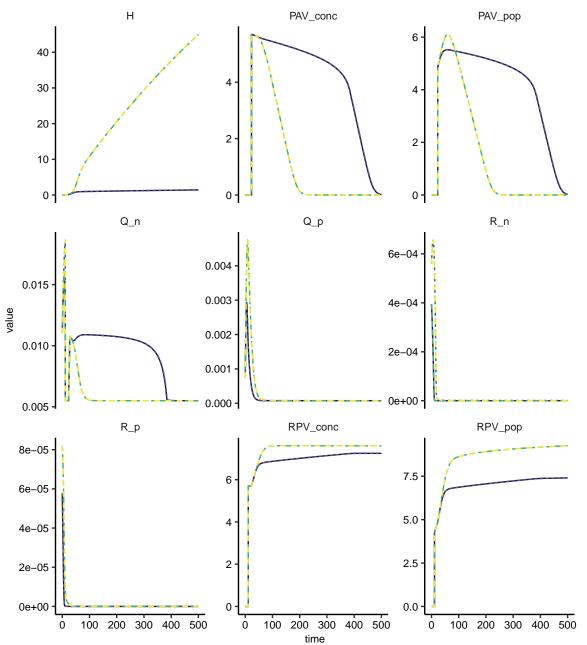
z_nb = 1; z_nc = 1e-04



low

+N

z_nb = 1; z_nc = 0.01 Н 40



nutrient

low

+N

z_nb = 1; z_nc = 1 Н PAV_conc PAV_pop 5 40 4 4 30 3 20 2 2 10 1 0 -Q_n Q_p R_n 6e-04 0.004 nutrient 0.015 0.003 low 4e-04 value +N 0.002 0.010 2e-04 +N+P 0.001 0e+00 0.000 -0.005 RPV_conc R_p RPV_pop 8e-05 6 6e-05 4 4 4e-05 2 -2 2e-05 0e+00 300 100 200 300 400 500 Ö 100 200 400 500 100 200 300 400 500

time