q\_nc = 1e-06; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -Q\_n Q\_p R\_n 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 RPV\_pop R\_p RPV\_conc 12.5 -8e-05 12 · 10.0 6e-05 8 7.5 4e-05 5.0 4 2e-05 2.5 0e+00 0.0 60 60 20 40 20 20 40 60 40 Ö Ö 0

q\_nc = 5e-06; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -Q\_n Q\_p R\_n 0.020 -0.005 6e-04 0.004 0.015 nutrient 0.003 low 4e-04 value2 0.010 +N 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -RPV\_pop R\_p RPV\_conc 12.5 -12.5 8e-05 10.0 10.0 6e-05 7.5 7.5 4e-05 5.0 5.0 2e-05 2.5 2.5 0e+00 0.0 0.0 60 60 20 40 20 20 40 60 40 Ö Ö 0

q\_nc = 1e-05; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -Q\_n Q\_p R\_n 0.020 -0.005 6e-04 0.004 0.015 nutrient 0.003 low 4e-04 value2 0.010 +N 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -RPV\_pop R\_p RPV\_conc 12.5 -12.5 8e-05 10.0 10.0 6e-05 7.5 7.5 4e-05 5.0 5.0 2e-05 2.5 2.5 0e+00 0.0 0.0 60 60 20 40 20 20 40 60 40 Ö Ö 0

q\_nc = 2.5e-05; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -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 12.5 12.5 8e-05 10.0 10.0 6e-05 7.5 7.5 -4e-05 5.0 5.0 2e-05 2.5 2.5

0.0

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time

0.0

Ö

60

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0e+00

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q\_nc = 5e-05; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -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 12.5 12.5 -8e-05 10.0 -10.0 6e-05 7.5 7.5 4e-05 5.0 5.0 2e-05 2.5 2.5 0e+00 0.0 0.0 60 60 20 40 20 20 40 60 40 Ö Ö

q\_nc = 7.4e-05; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -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 12.5 -12.5 8e-05 10.0 10.0 6e-05 7.5 7.5 4e-05 5.0 5.0 2e-05 2.5 2.5 0e+00 0.0 0.0

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time

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Ö

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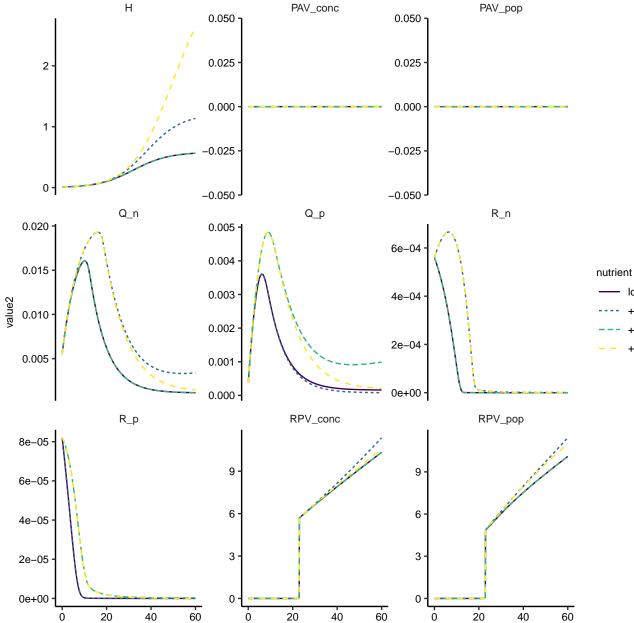
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q\_nc = 3e-04; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -Q\_n Q\_p R\_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 0.010 +N 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 R\_p RPV\_conc RPV\_pop 12 7 12 -8e-05 9 9 6e-05 6 6 4e-05 3 · 3 2e-05 0e+00 60 60 20 40 20 20 . 40 60 40 Ö Ö 0

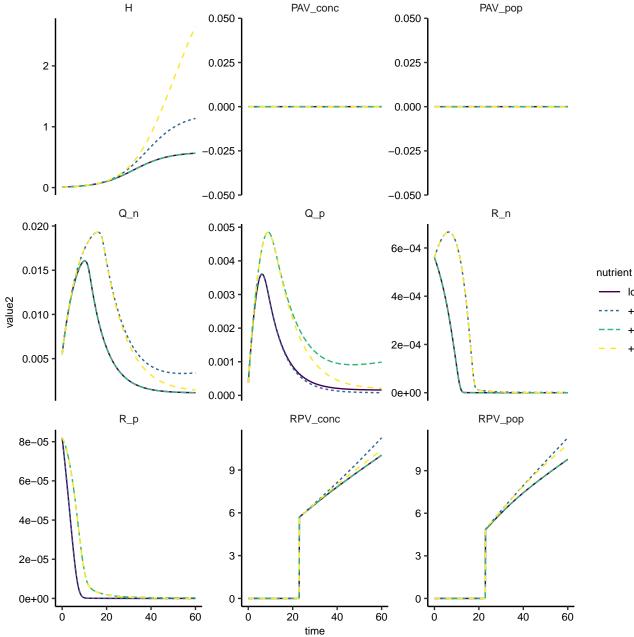
q\_nc = 0.000355647097197949; q\_pc = 1e-06 Н



low

+N

q\_nc = 0.000408931264426689; q\_pc = 1e-06 Н



low

+N

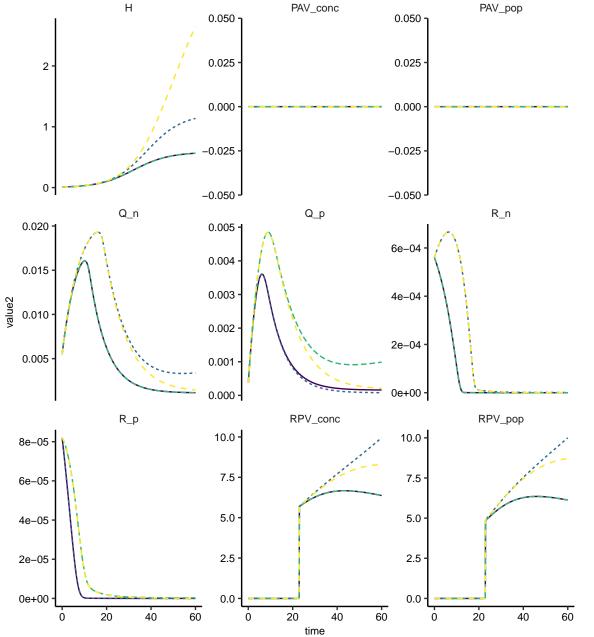
q\_nc = 6e-04; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -Q\_n Q\_p R\_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 0.010 +N 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -RPV\_conc RPV\_pop R\_p 8e-05 9 . 9 6e-05 6 6 4e-05 3 · 3 2e-05 0e+00 60 60 20 40 20 20 40 60 40 Ö Ö 0

q\_nc = 9e-04; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 Q\_n Q\_p R\_n 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 -RPV\_pop R\_p RPV\_conc 8e-05 10.0 -10.0 6e-05 7.5 7.5 4e-05 5.0 5.0 2e-05 2.5 2.5 0e+00 0.0 0.0 60 60 20 40 20 20 40 60 40 Ö Ö

0

Н

q\_nc = 0.00105931820563677; q\_pc = 1e-06



nutrient

low

+N

q\_nc = 0.0011; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -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 -RPV\_pop R\_p RPV\_conc 10.0 10.0 8e-05 7.5 7.5 6e-05 5.0 5.0 4e-05 2.5 -2e-05 2.5 0e+00 0.0 0.0

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time

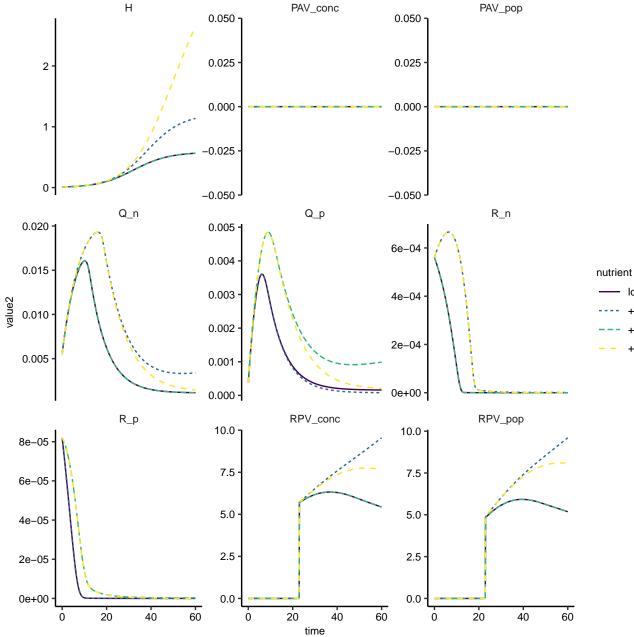
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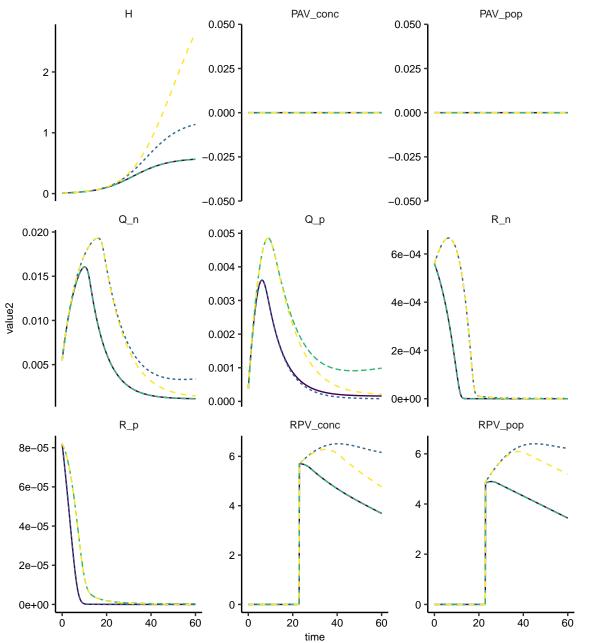
q\_nc = 0.00125670584214917; q\_pc = 1e-06



low

+N

q\_nc = 0.00293703137080535; q\_pc = 1e-06



nutrient

low

+N

q\_nc = 0.003; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 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 8e-05 6 6 6e-05 4 4 4e-05 2 2 2e-05 0e+00

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time

Ö

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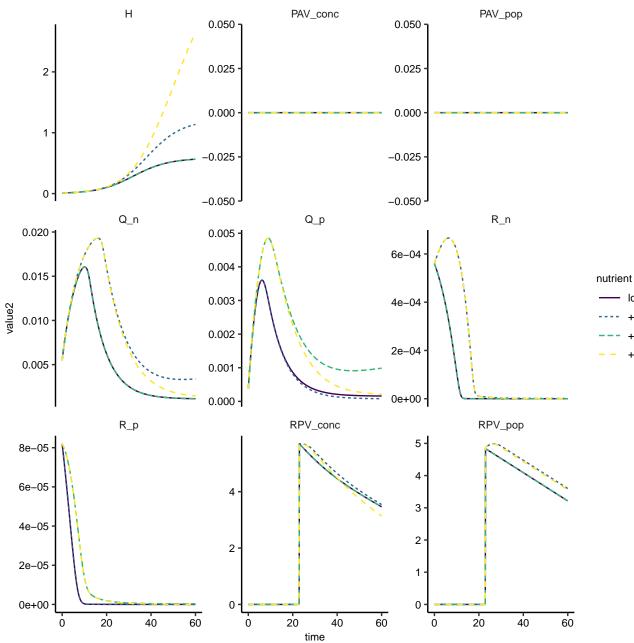
0

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q\_nc = 0.005; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 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 6 8e-05 6e-05 4 4 4e-05 2 2 2e-05 0e+00 60 60 20 40 20 40 60 20 40 0 Ö 0

q\_nc = 0.007; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 Q\_n Q\_p R\_n 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 5 8e-05 4 6e-05 4 3 -4e-05 2 2 -2e-05 1 0e+00 60 60 20 40 20 20 40 60 40 0 Ö 0

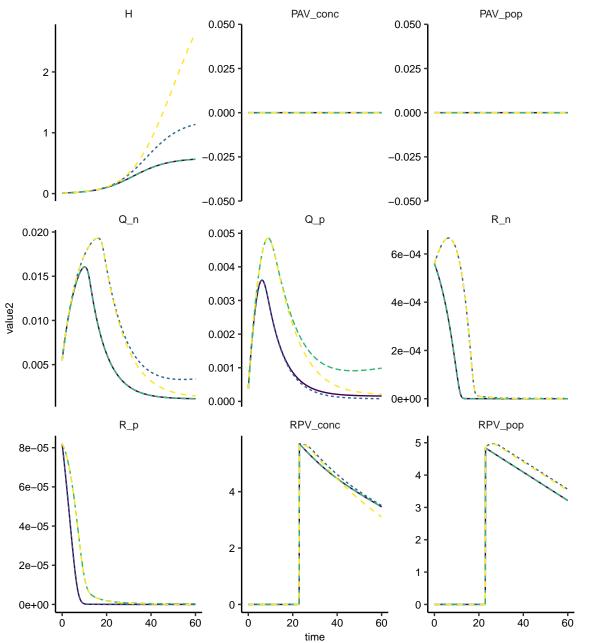
q\_nc = 0.00737377685017789; q\_pc = 1e-06



low

+N

q\_nc = 0.00761142216542762; q\_pc = 1e-06



nutrient

low

+N

q\_nc = 0.01; q\_pc = 1e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 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 RPV\_conc R\_p RPV\_pop 5 -8e-05 4 6e-05 4 3 4e-05 2 2 -2e-05 1 0e+00 60 60 20 40 20 40 60 20 40 0 Ö 0 time

q\_nc = 1e-06; q\_pc = 5e-06 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -Q\_n Q\_p R\_n 0.020 -0.005 6e-04 0.004 0.015 nutrient 0.003 low 4e-04 value2 0.010 +N 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -RPV\_pop R\_p RPV\_conc 12.5 -12.5 8e-05 10.0 10.0 6e-05 7.5 7.5 4e-05 5.0 5.0 2e-05 2.5 2.5 0e+00 0.0 0.0 60 60 20 40 20 20 40 60 40 Ö Ö 0

q\_nc = 1e-06; q\_pc = 1e-05 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -Q\_n Q\_p R\_n 0.020 -0.005 6e-04 0.004 0.015 nutrient 0.003 low 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 12.5 -12.5 8e-05 10.0 10.0 6e-05 7.5 7.5 4e-05 5.0 5.0 2e-05 2.5 2.5 0e+00 0.0 0.0 60 60 20 40 20 20 40 60 40 Ö Ö

0

q\_nc = 1e-06; q\_pc = 2.5e-05 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 Q\_n Q\_p R\_n 0.020 -0.005 6e-04 0.004 0.015 nutrient 0.003 low 4e-04 value2 0.010 +N 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -RPV\_pop R\_p RPV\_conc 12.5 8e-05 10.0 10.0 6e-05 7.5 7.5 4e-05 5.0 5.0 2e-05 2.5 2.5 0e+00 0.0 0.0

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Ö

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time

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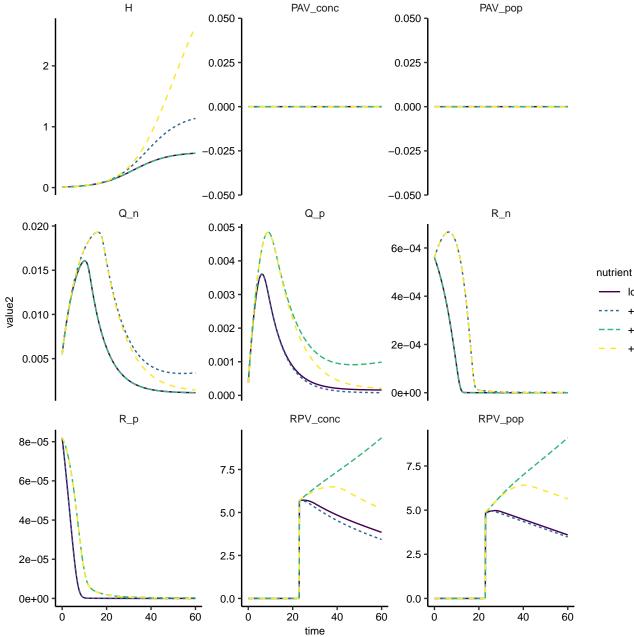
q\_nc = 1e-06; q\_pc = 5e-05 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 Q\_n Q\_p R\_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 0.010 +N 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 -RPV\_pop R\_p RPV\_conc 12.5 -12 -8e-05 10.0 9 6e-05 7.5 6 4e-05 5.0 3 2e-05 2.5 -0e+00 0.0 60 60 20 40 20 20 40 60 40 Ö Ö 0

q\_nc = 1e-06; q\_pc = 7.4e-05 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 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 12 -12 -8e-05 9 9 . 6e-05 6 6 4e-05 3 -3 2e-05 0e+00 60 60 20 40 20 20 40 60 40 Ö Ö 0

q\_nc = 1e-06; q\_pc = 3e-04 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -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 10.0 10.0 8e-05 7.5 7.5 -6e-05 5.0 5.0 4e-05 2.5 2.5 2e-05 0e+00 0.0 0.0 60 60 20 20 40 60 40 20 40 Ö Ö

Н

q\_nc = 1e-06; q\_pc = 0.000355647097197949

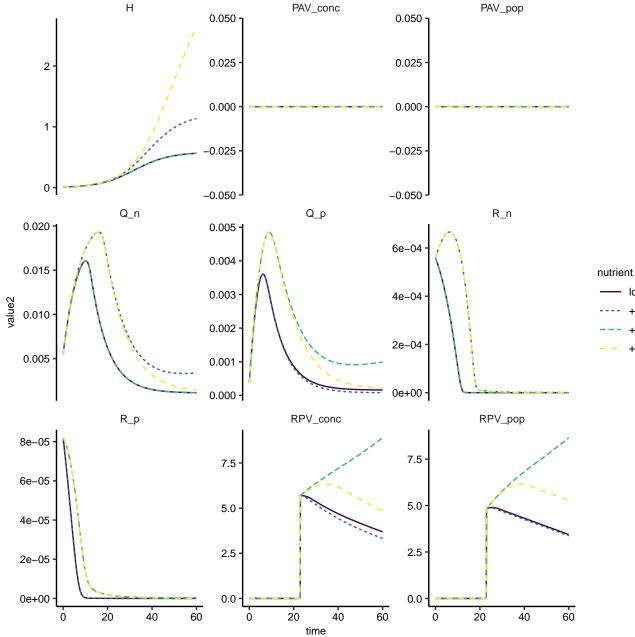


low

+N

Н

q\_nc = 1e-06; q\_pc = 0.000408931264426689



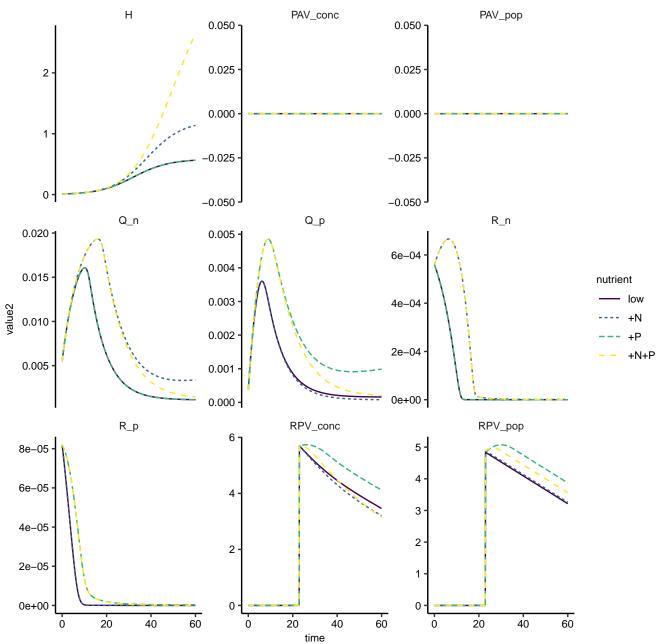
low

+N

q\_nc = 1e-06; q\_pc = 6e-04 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 Q\_n Q\_p R\_n 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 -RPV\_conc RPV\_pop R\_p 8e-05 6 6 6e-05 4 4e-05 2 2 -2e-05 0e+00 60 60 20 40 20 40 60 20 40 Ö Ö 0

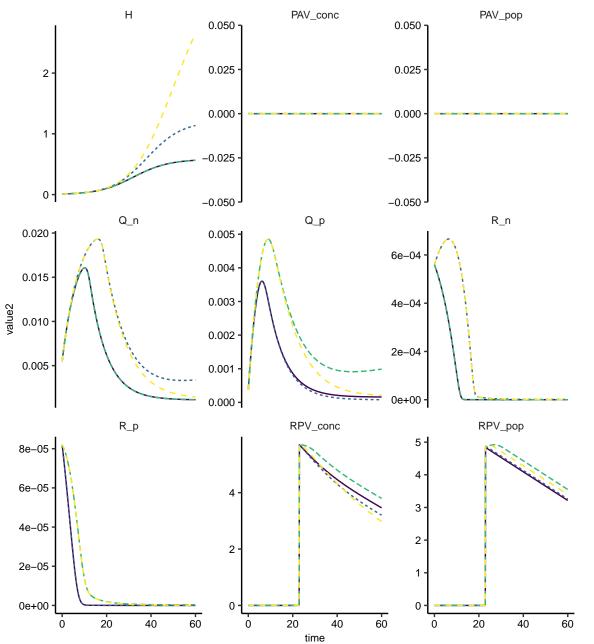
q\_nc = 1e-06; q\_pc = 9e-04 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 Q\_n Q\_p R\_n 0.020 -0.005 6e-04 0.004 0.015 nutrient low 0.003 4e-04 value2 +N 0.010 0.002 2e-04 +N+P 0.005 0.001 0e+00 -0.000 R\_p RPV\_conc RPV\_pop 6 8e-05 4 6e-05 4 4e-05 2 · 2 2e-05 0e+00 60 60 20 40 20 40 60 20 40 0 Ö 0

q\_nc = 1e-06; q\_pc = 0.00105931820563677



q\_nc = 1e-06; q\_pc = 0.0011 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 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 6 5 · 8e-05 4 6e-05 4 3 -4e-05 2 2 -2e-05 1 0e+00 60 60 20 40 20 20 40 60 40 0 Ö 0

q\_nc = 1e-06; q\_pc = 0.00125670584214917

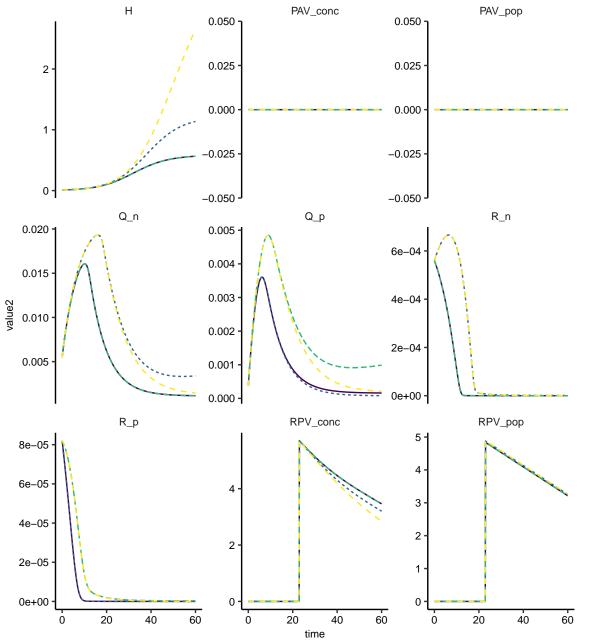


nutrient

low

+N

q\_nc = 1e-06; q\_pc = 0.00293703137080535



nutrient

low

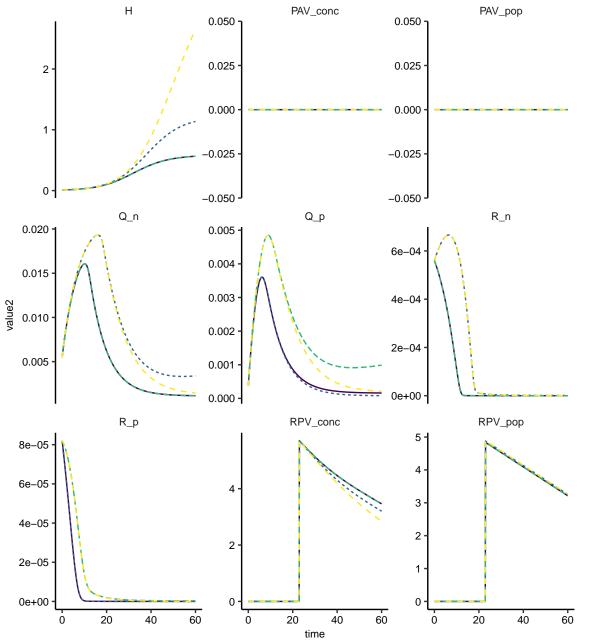
+N

q\_nc = 1e-06; q\_pc = 0.003 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 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 RPV\_conc R\_p RPV\_pop 5 -8e-05 4 6e-05 4 3 4e-05 2 2 · 2e-05 1 0e+00 60 60 20 40 20 20 40 60 40 Ö Ö 0

q\_nc = 1e-06; q\_pc = 0.005 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -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 RPV\_conc R\_p RPV\_pop 5 -8e-05 4 6e-05 4 3 4e-05 2 2 · 2e-05 1 0e+00 60 60 20 40 20 20 40 60 40 Ö Ö 0

q\_nc = 1e-06; q\_pc = 0.007 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -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 RPV\_conc R\_p RPV\_pop 5 -8e-05 4 6e-05 4 3 4e-05 2 2 · 2e-05 1 0e+00 60 60 20 40 20 20 40 60 40 Ö Ö 0 time

q\_nc = 1e-06; q\_pc = 0.00737377685017789 H

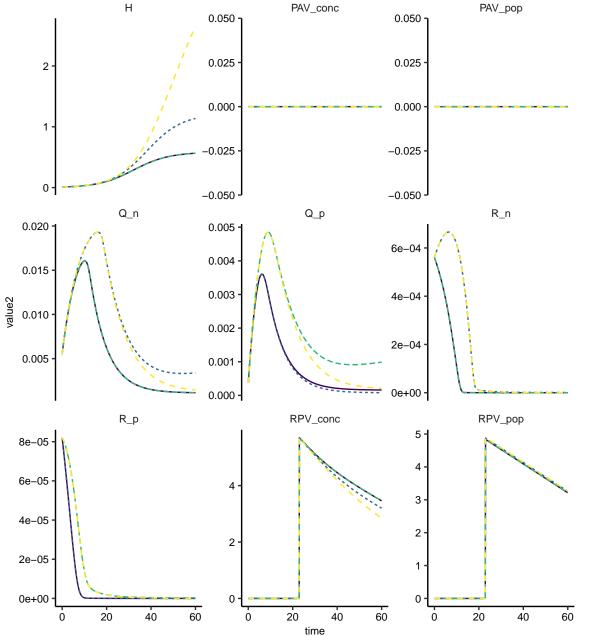


nutrient

low

+N

q\_nc = 1e-06; q\_pc = 0.00761142216542762



nutrient

low

+N

q\_nc = 1e-06; q\_pc = 0.01 Н PAV\_conc PAV\_pop 0.050 0.050 0.025 0.025 2 0.000 0.000 1 -0.025 -0.025 0 --0.050 **-**-0.050 -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 RPV\_conc R\_p RPV\_pop 5 -8e-05 4 6e-05 4 3 4e-05 2 2 · 2e-05 1 0e+00 60 60 20 40 20 20 40 60 40 Ö Ö 0