

Appendix 6

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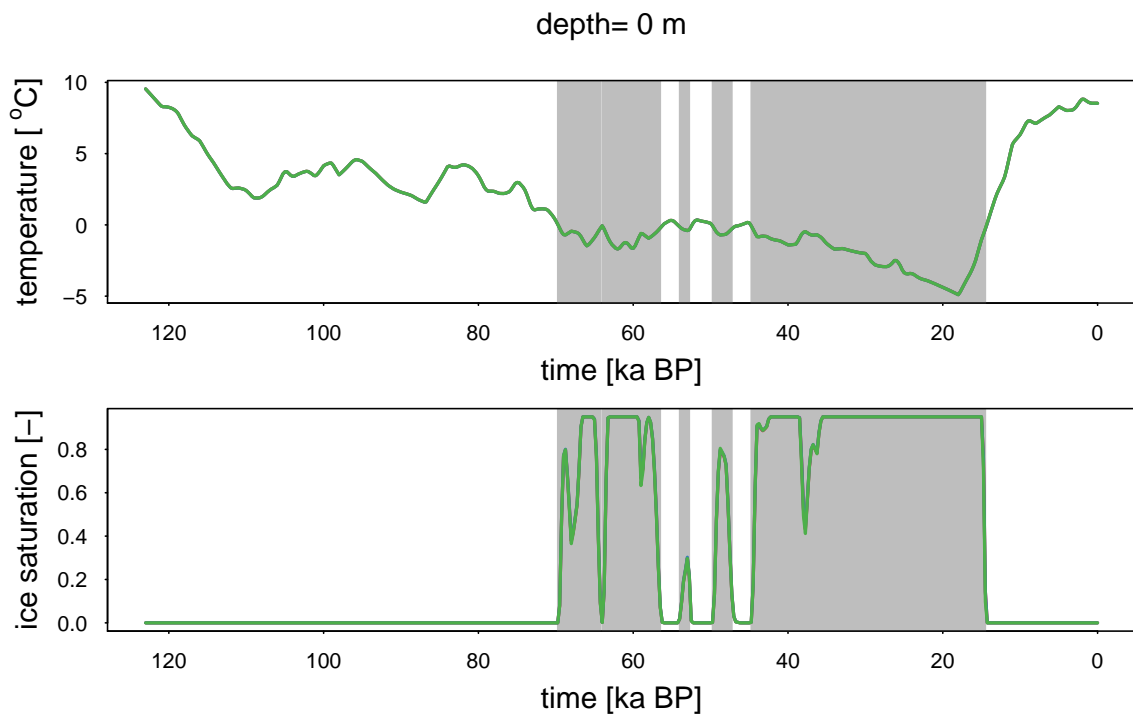
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1 Extended model results of Case 1

This section presents time series of temperature, ice saturation, hydraulic head and velocity at different depths (0, 50, 100, 200, 400, 600 m) for the model runs described in Section 4.4.2 and in Table 4. Times during which the surface is frozen is marked with a grey filled box.

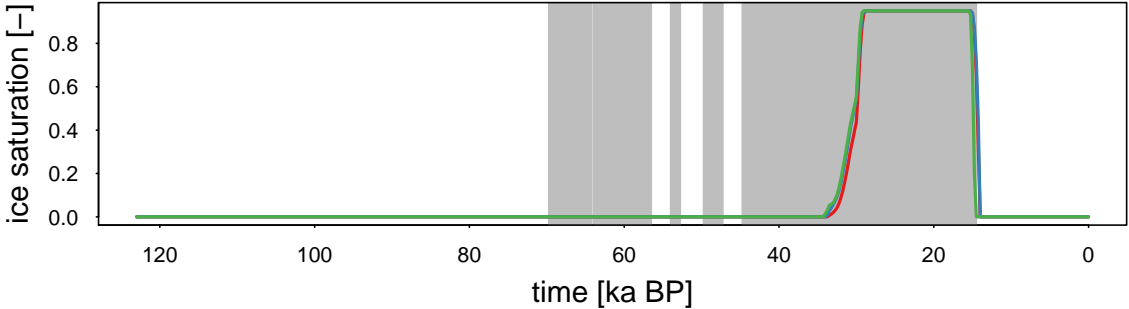
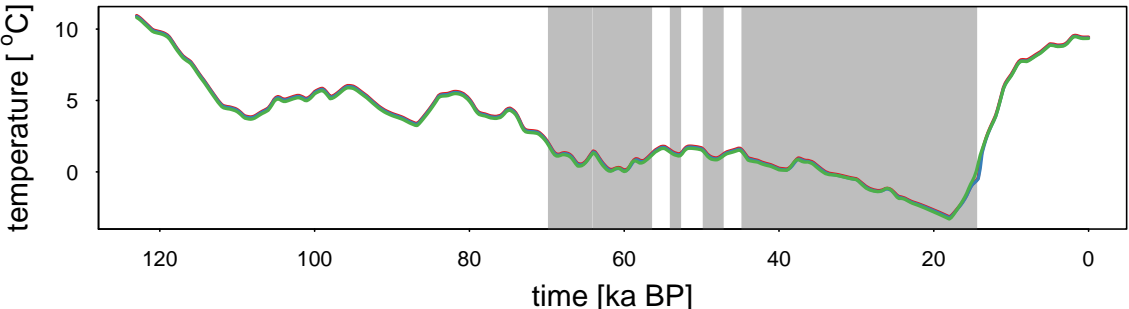
1.1 Timeseries

1.1.1 Run T-14_Cond



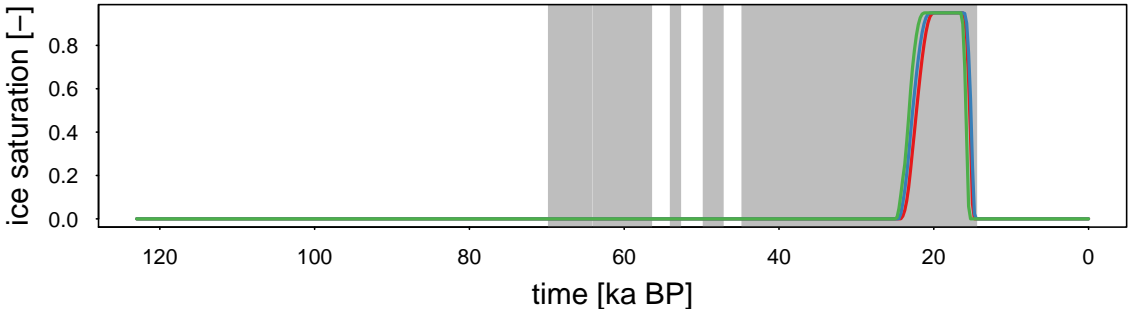
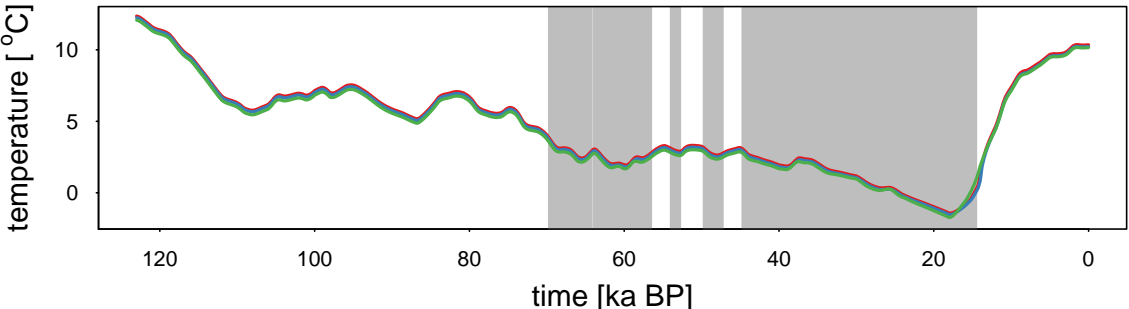
location [km]
— 7 — 9 — 13

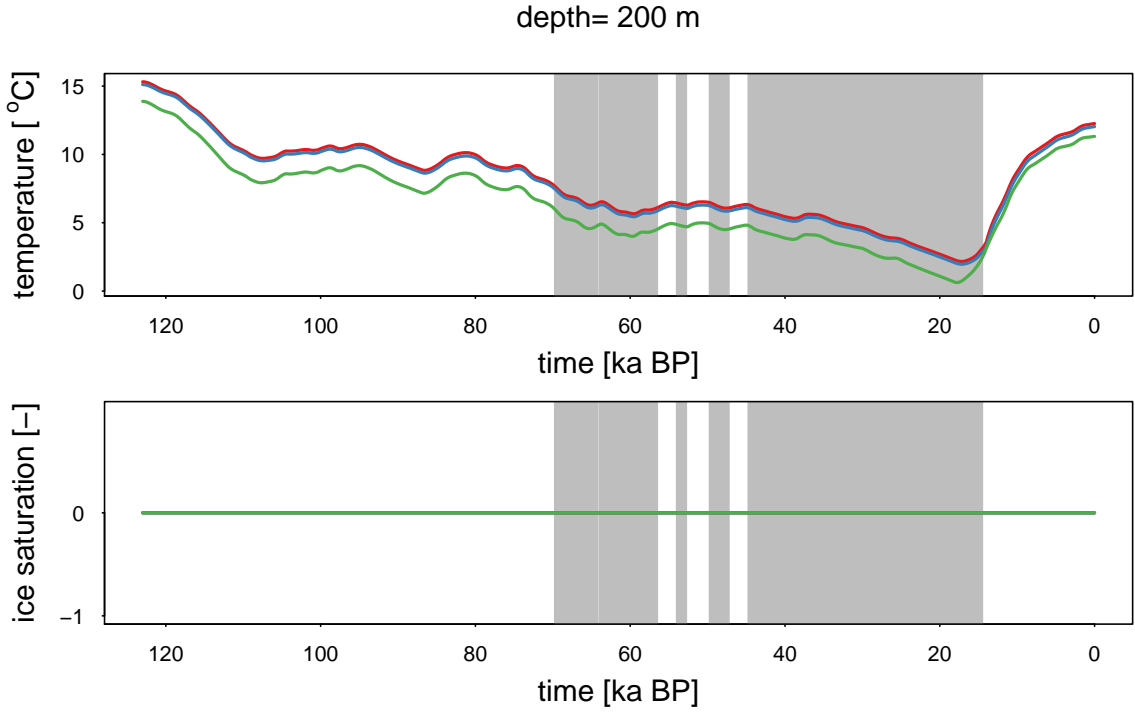
depth= 50 m



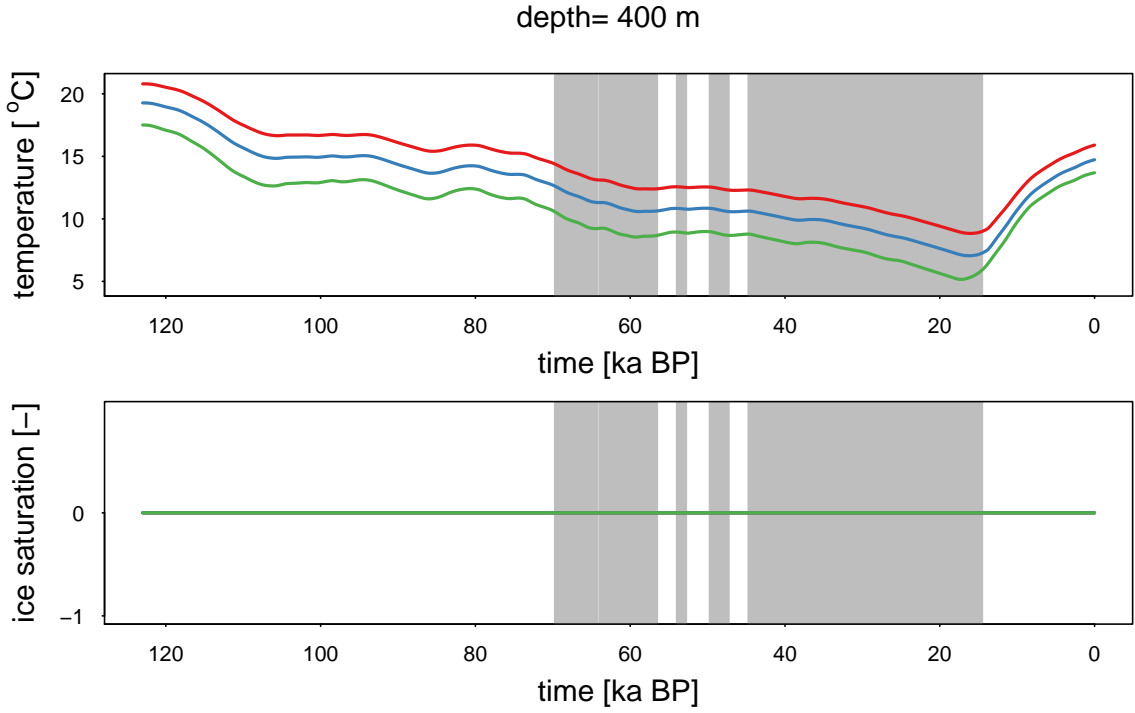
location [km]
— 7 — 9 — 13

depth= 100 m



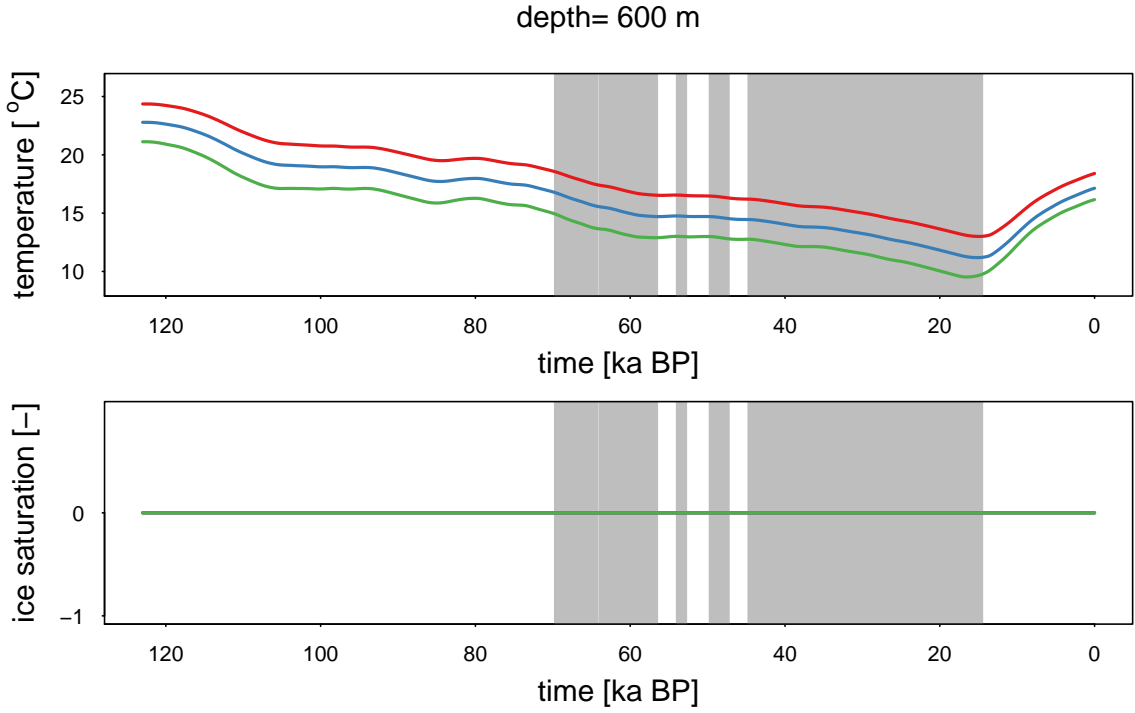


location [km]
— 7 — 9 — 13

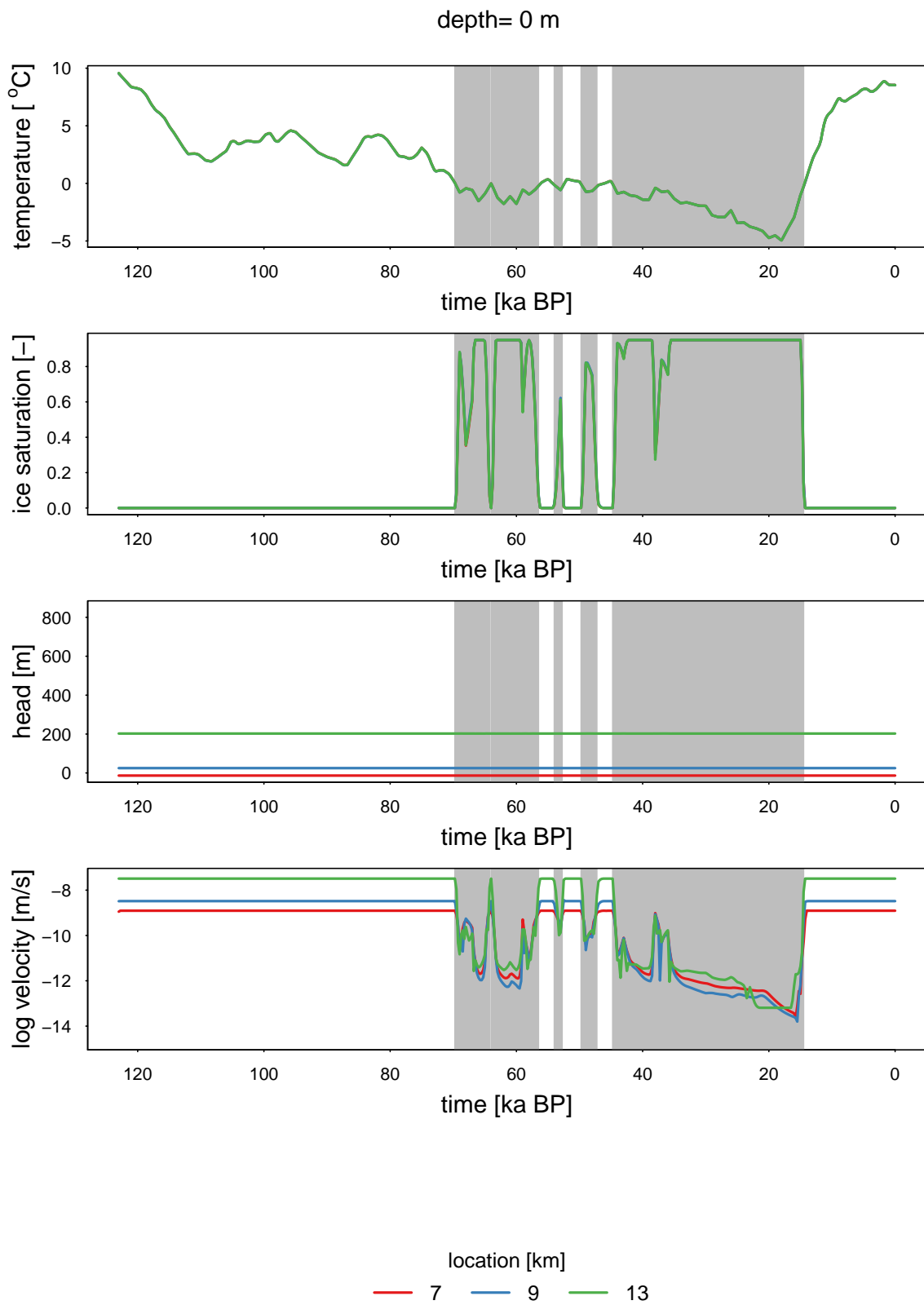


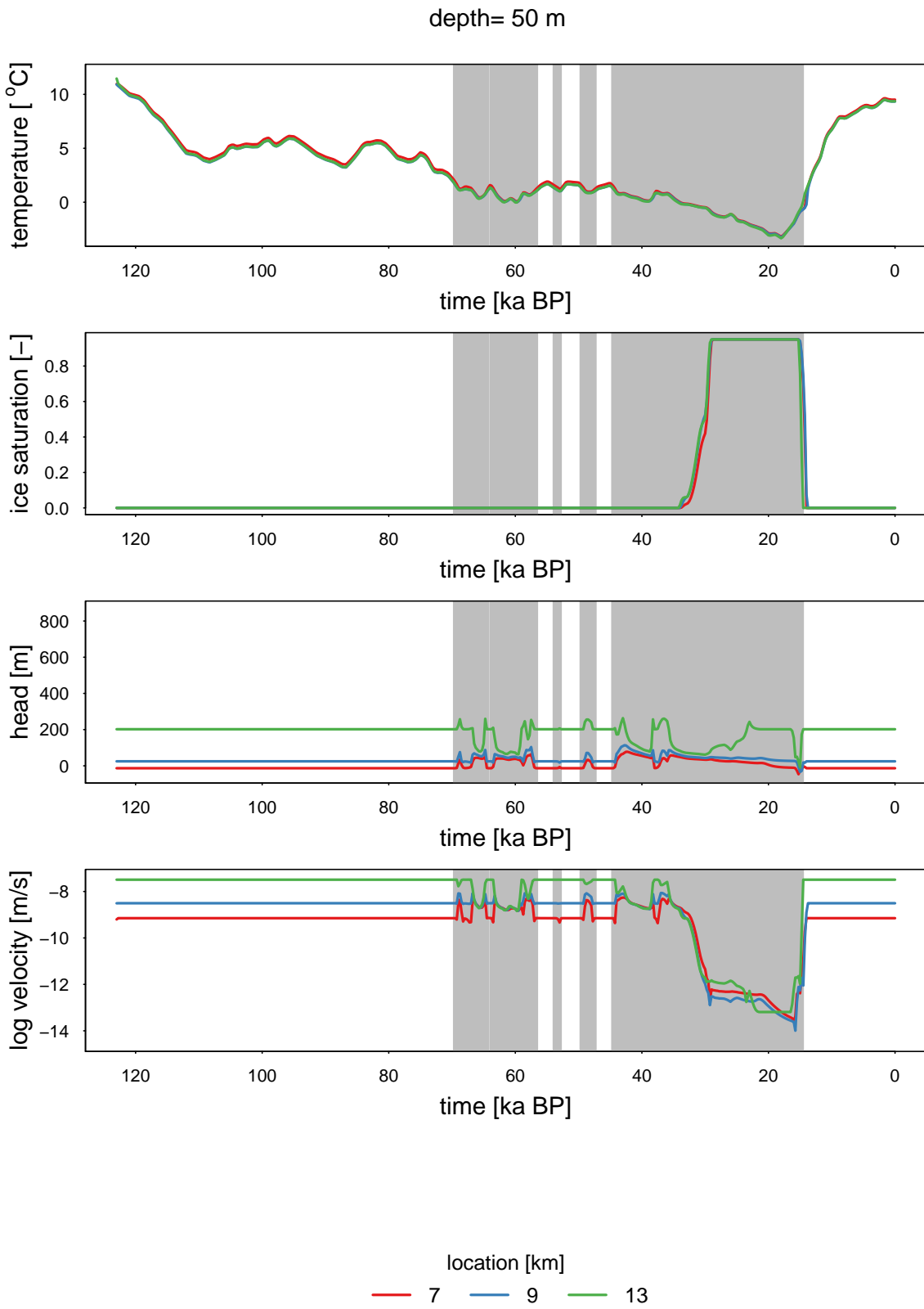
location [km]

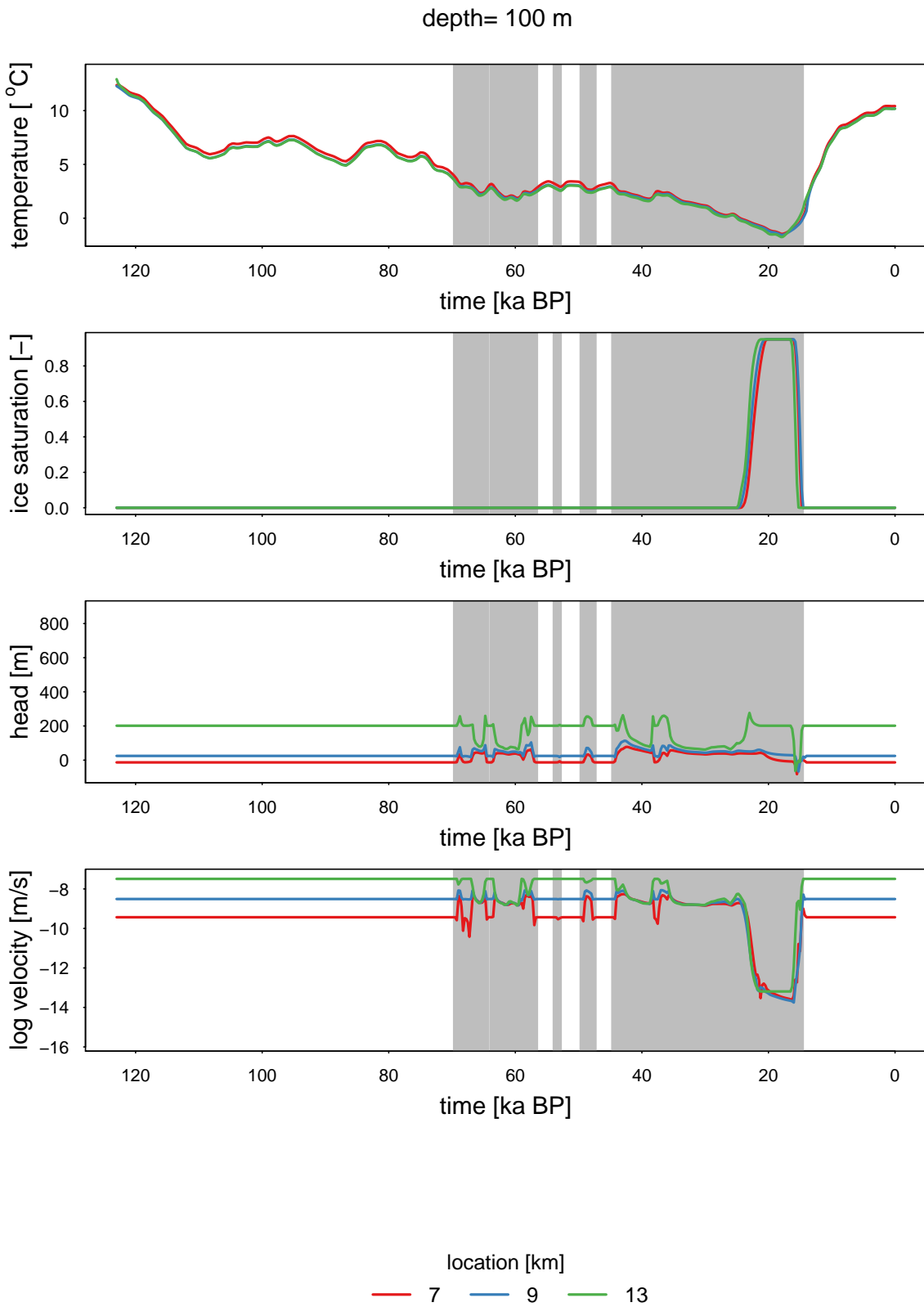
— 7 — 9 — 13

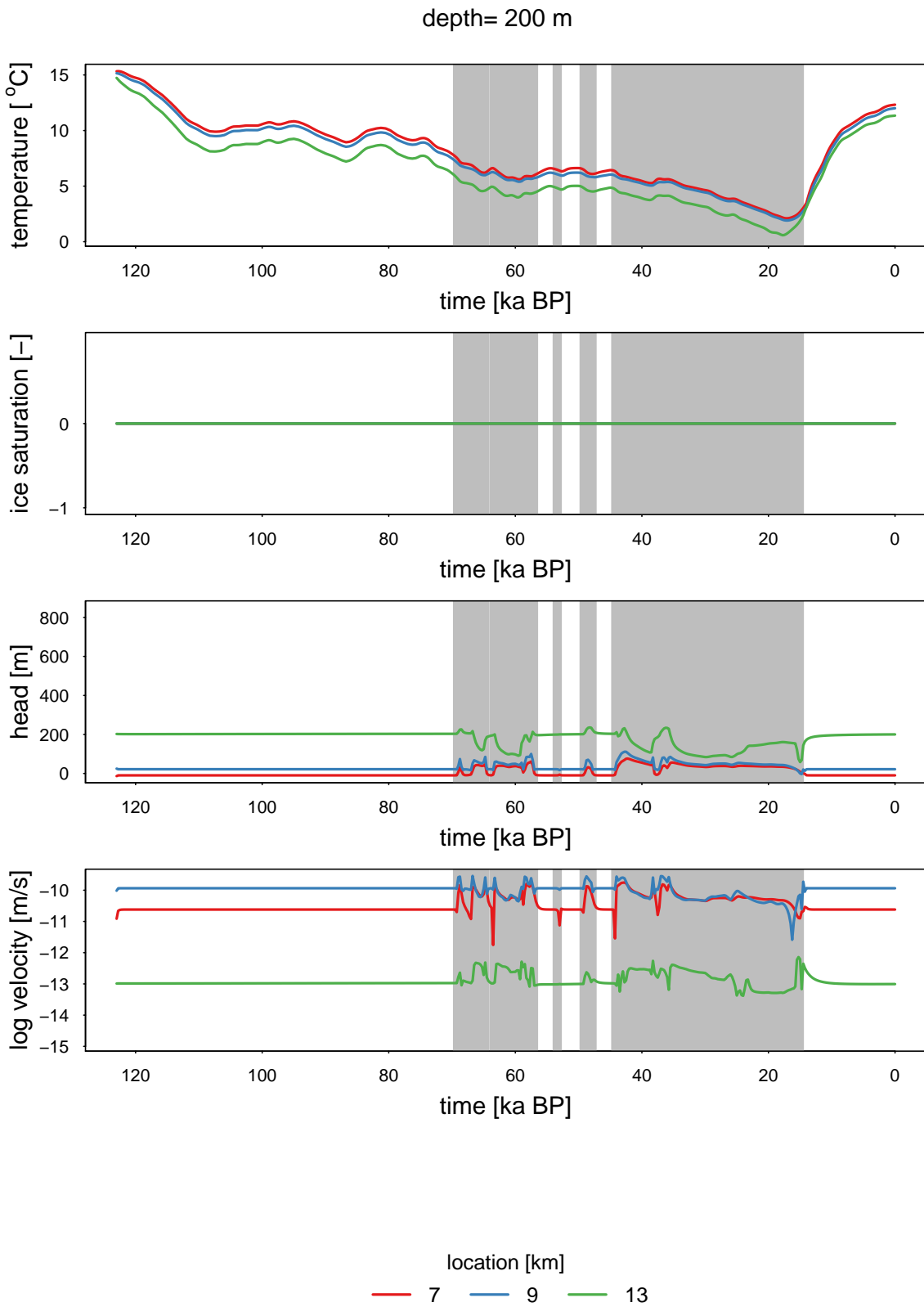


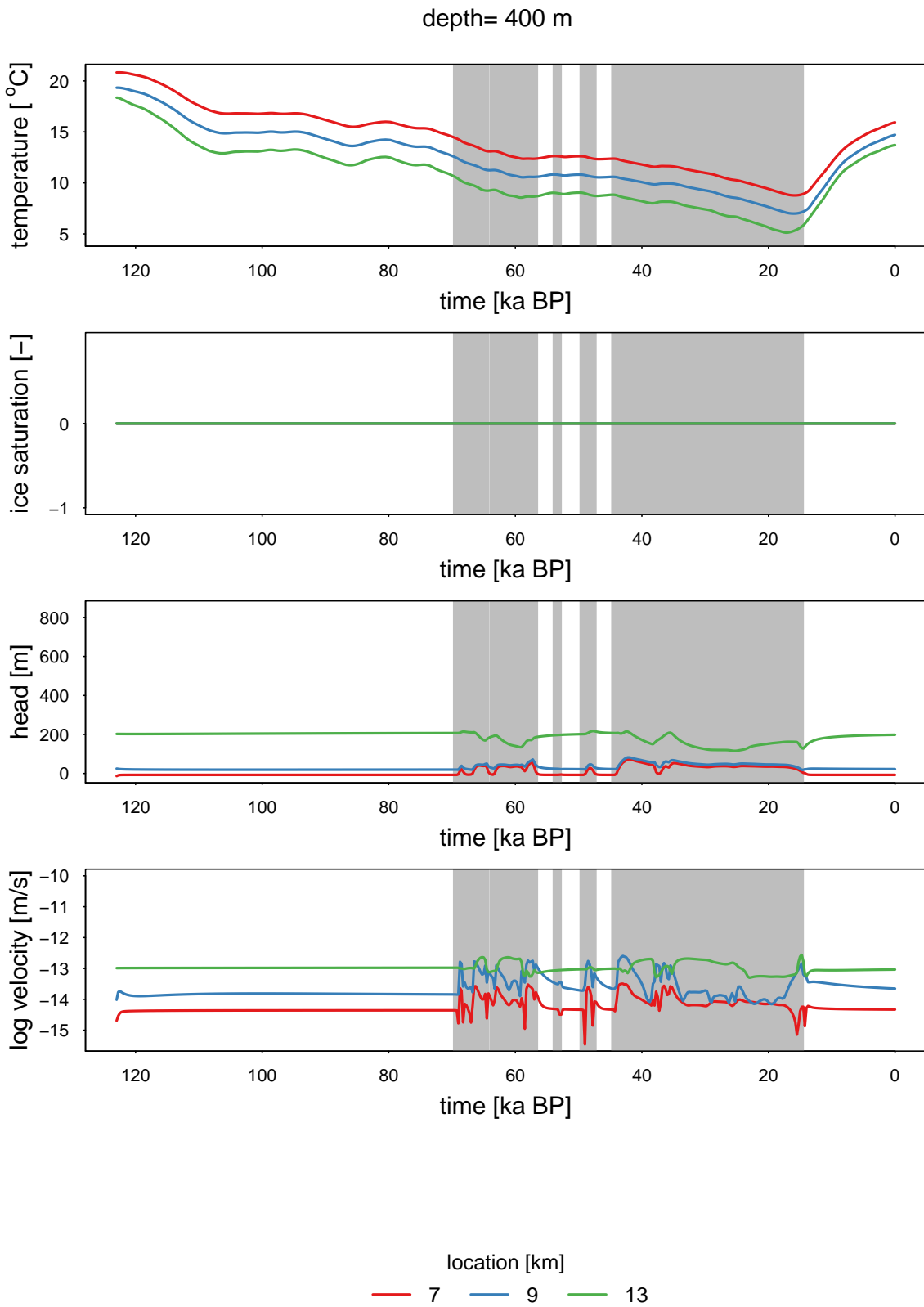
1.1.2 Run T-14_Min

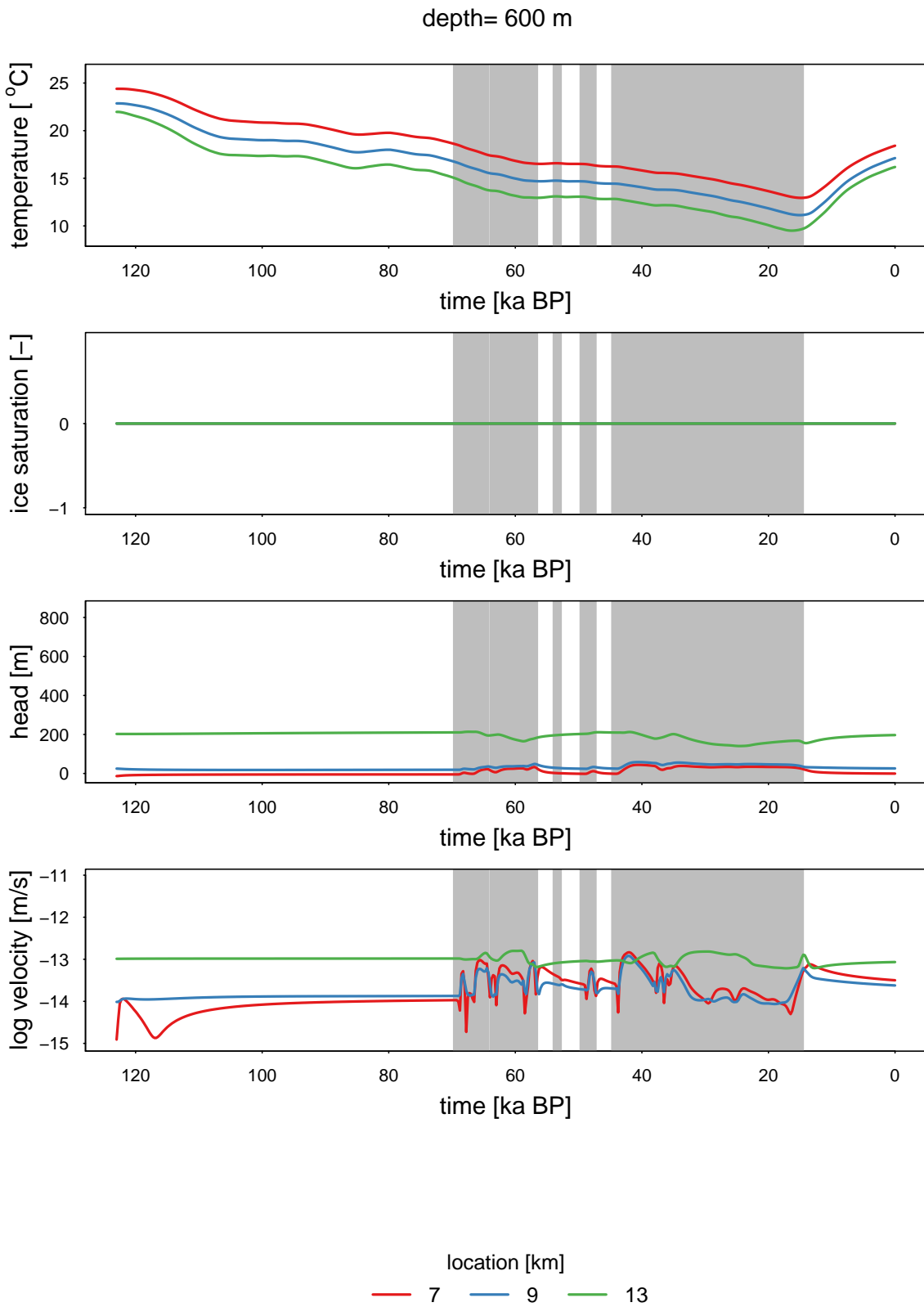




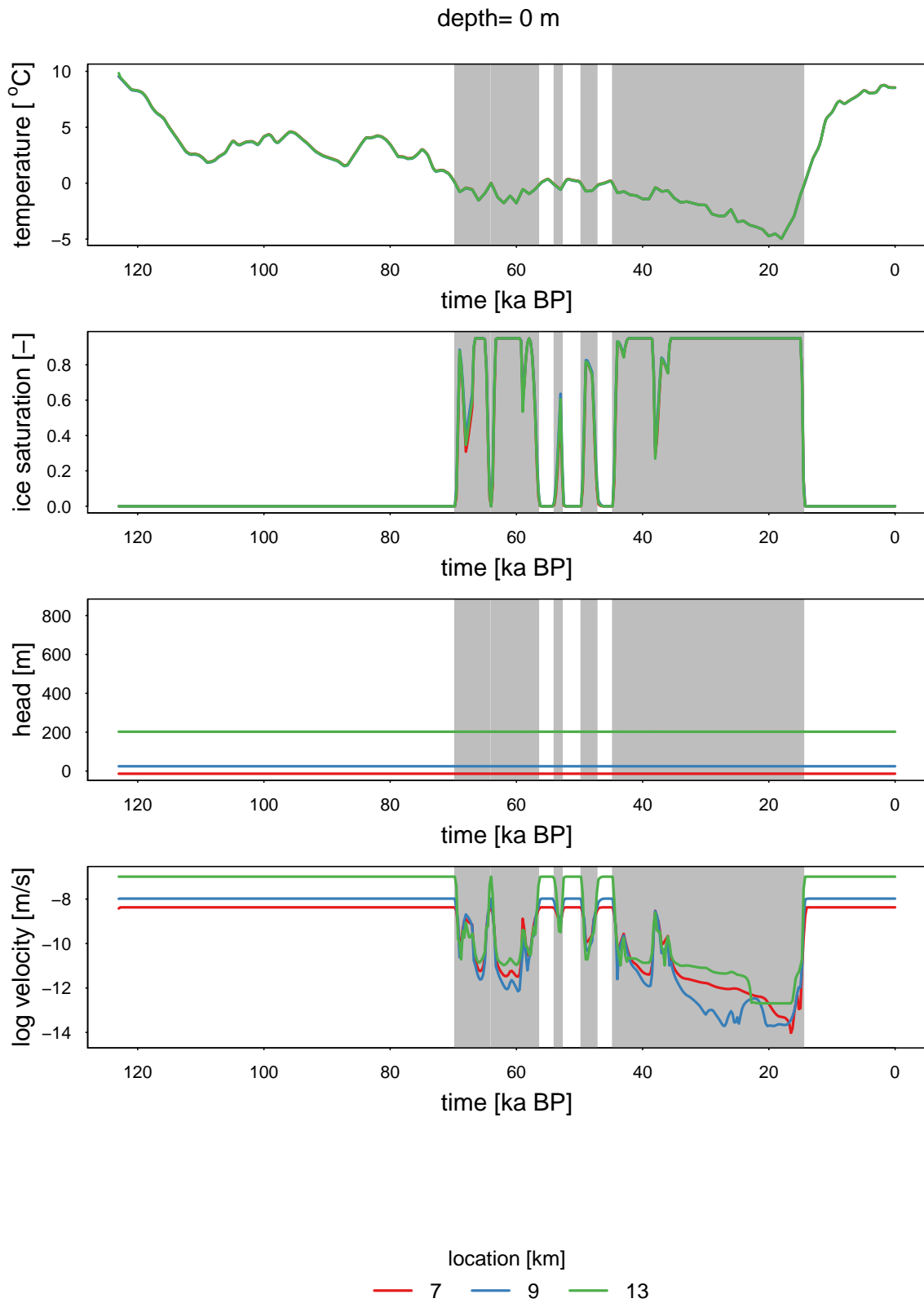


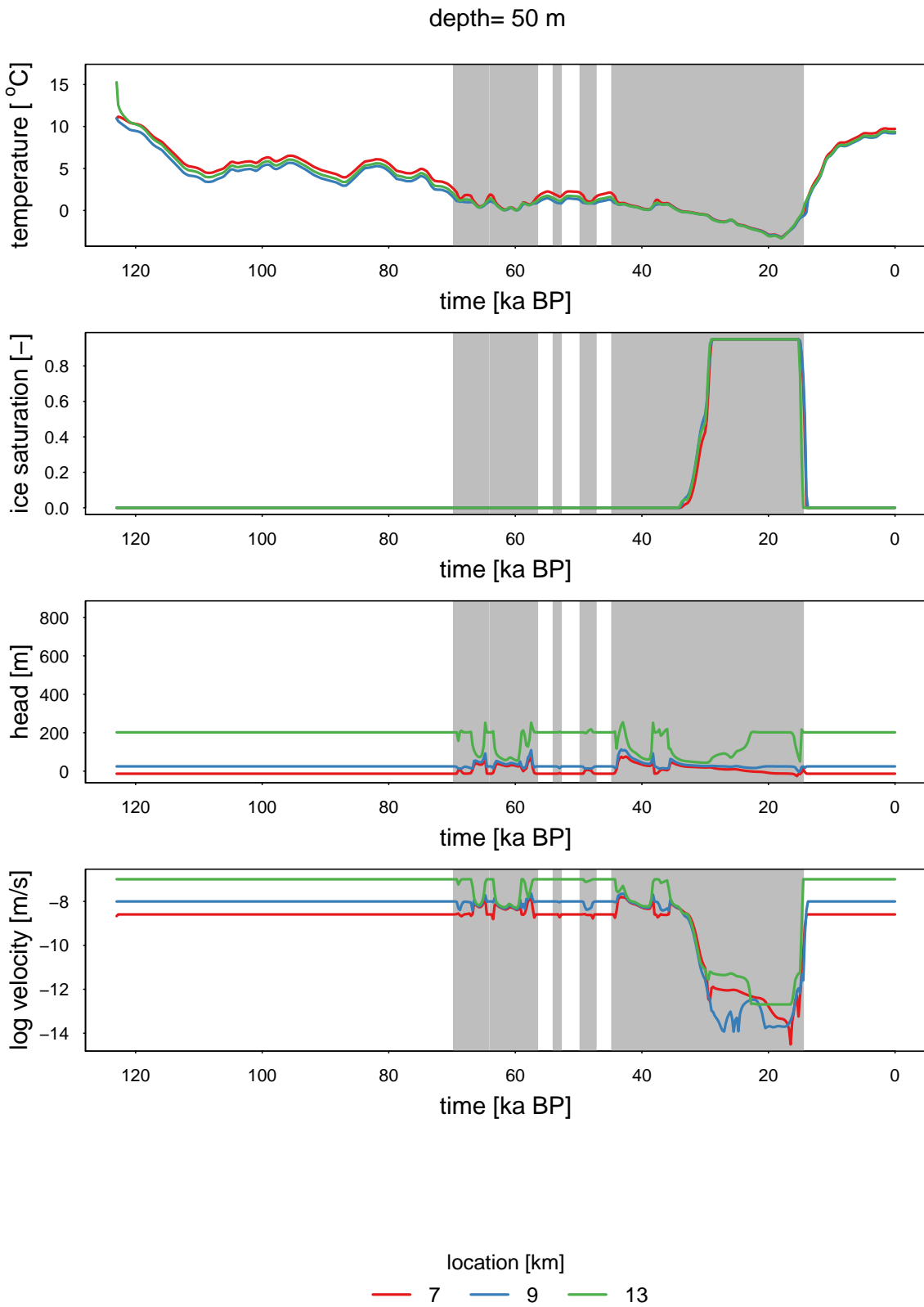




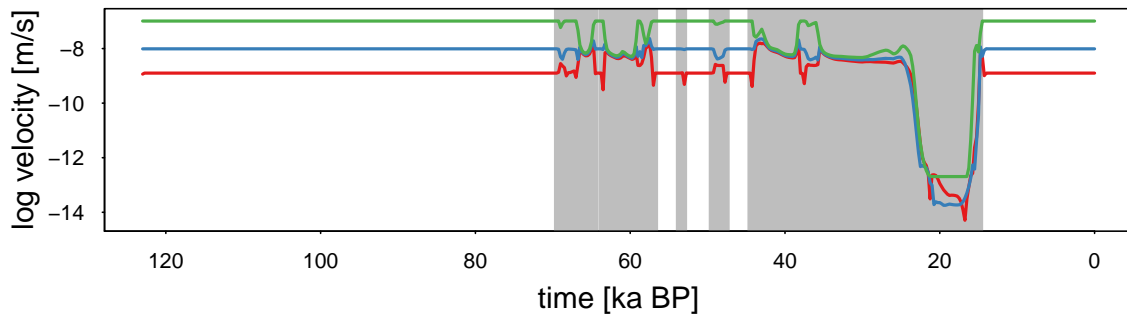
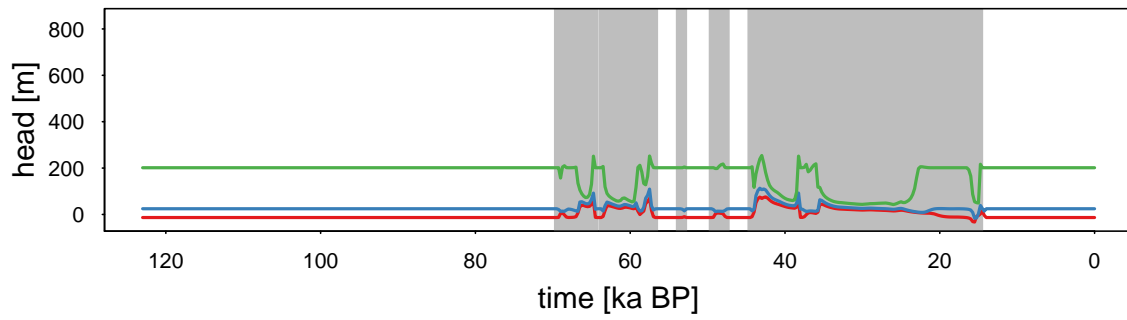
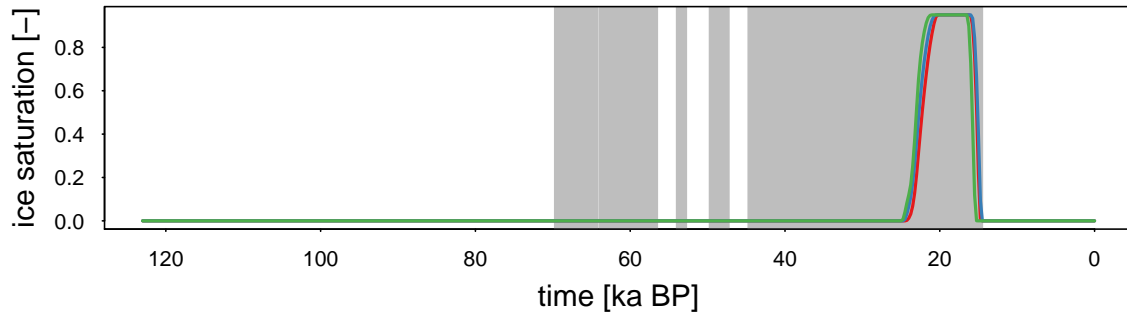
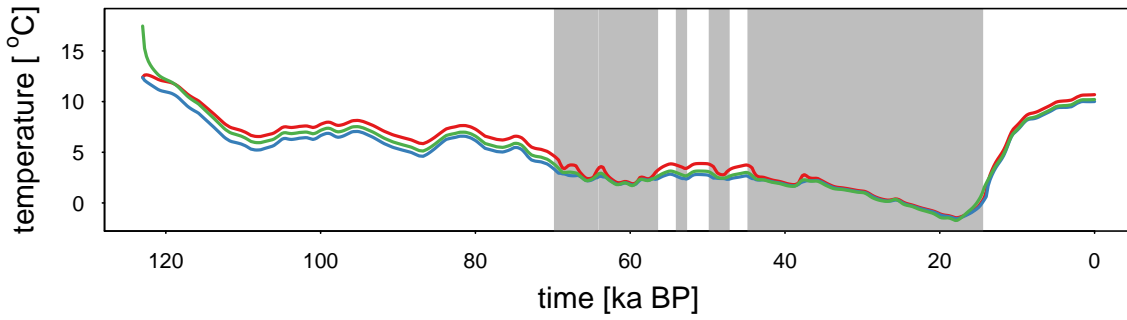


1.1.3 Run T-14_Med

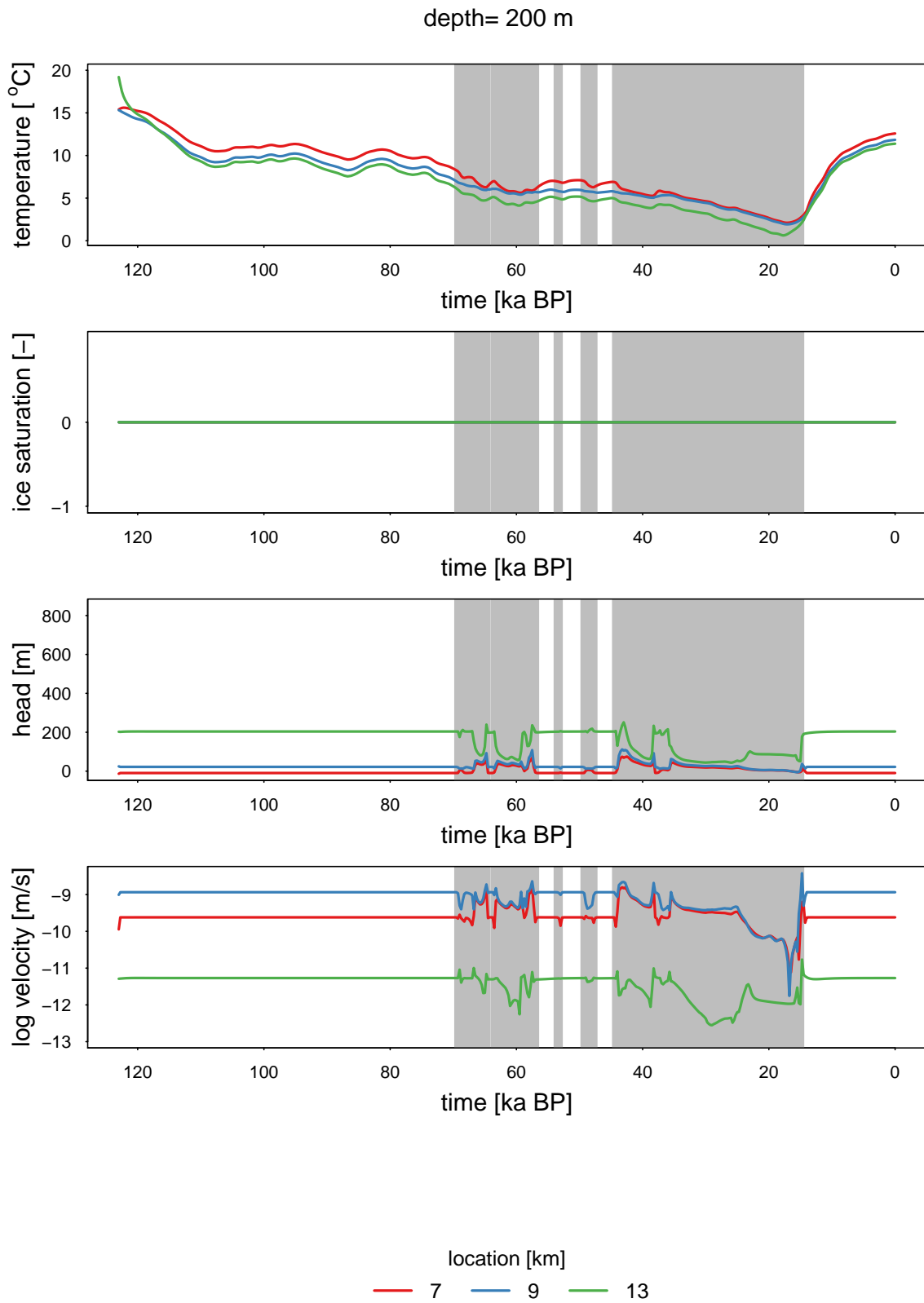


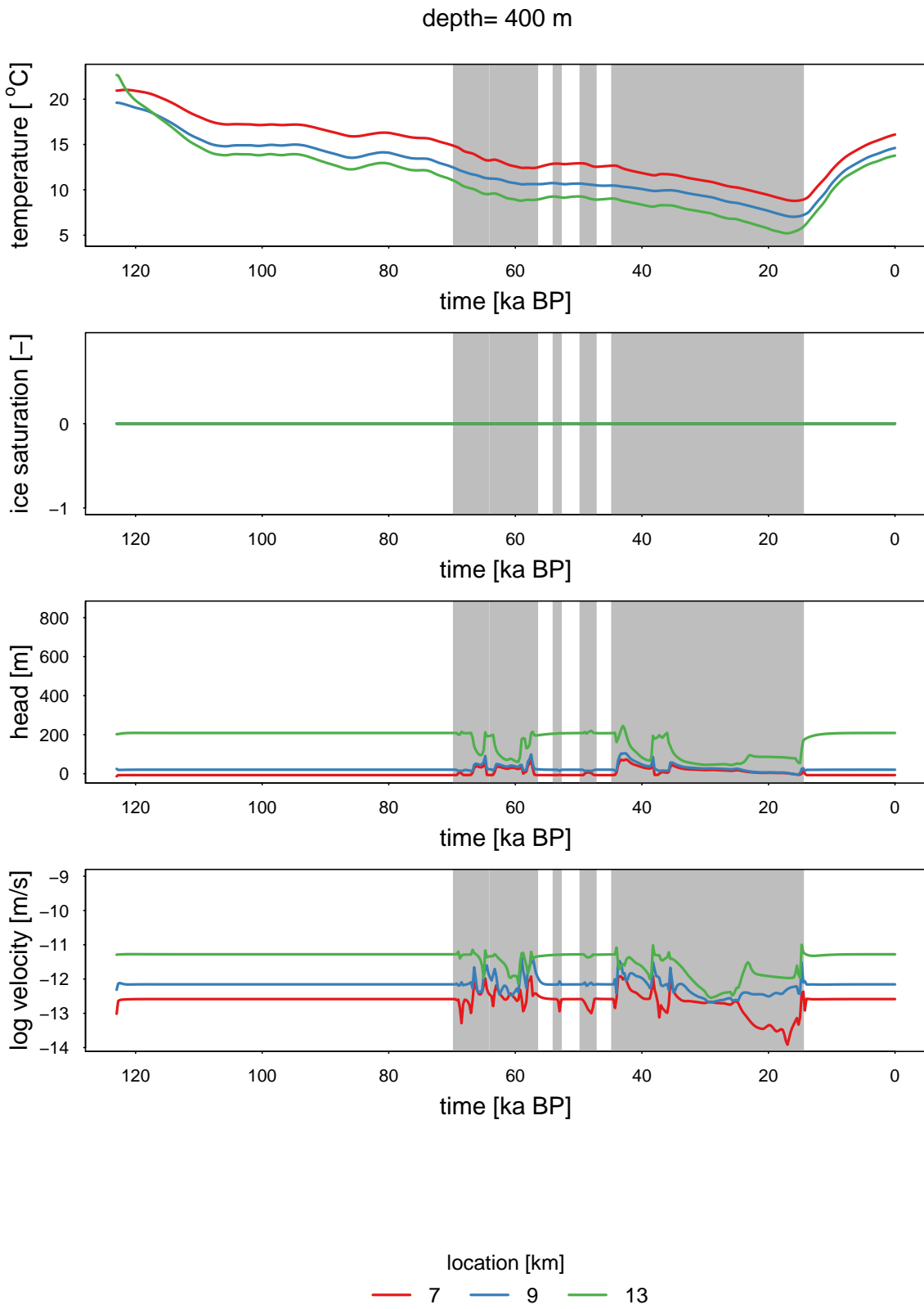


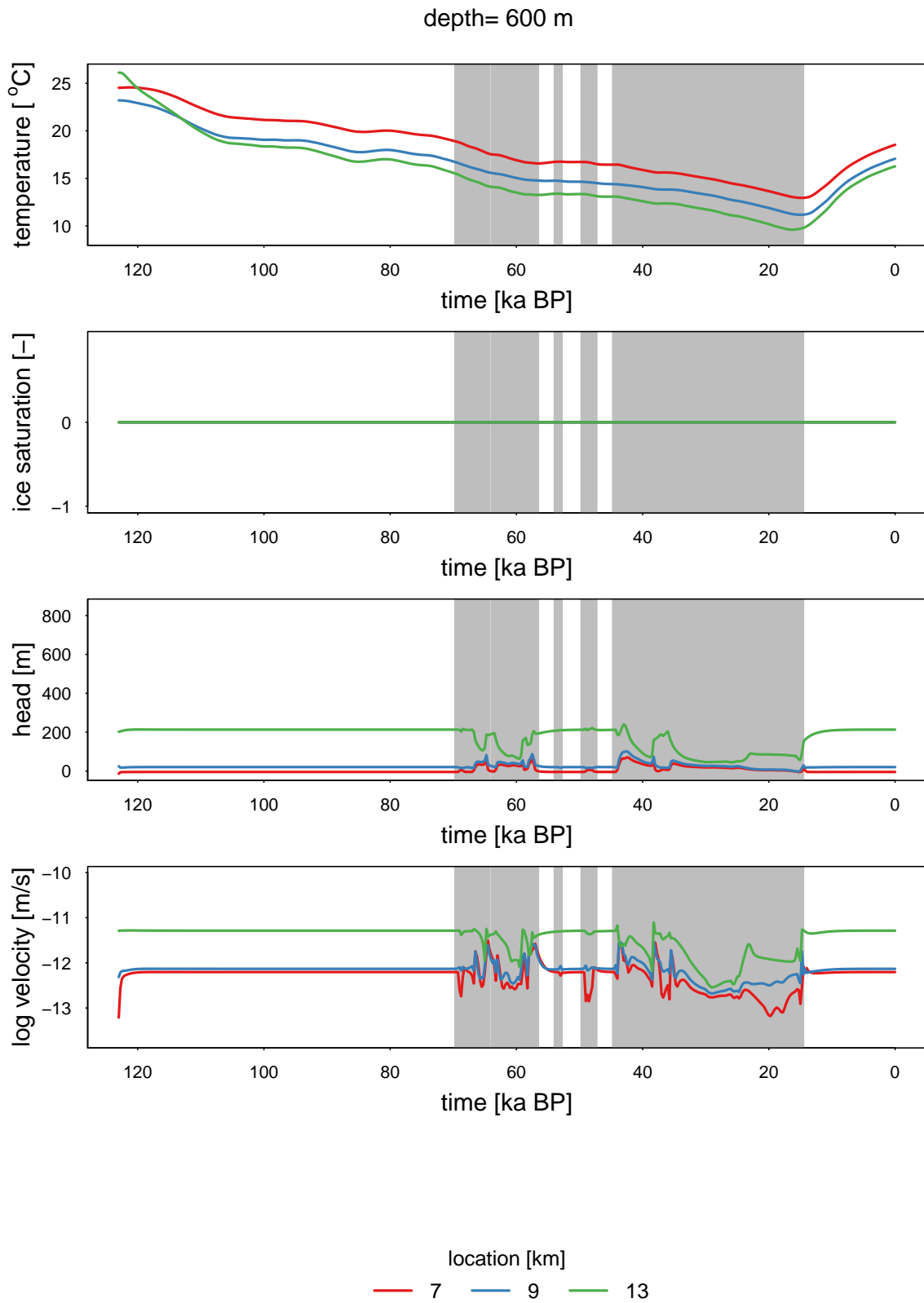
depth= 100 m



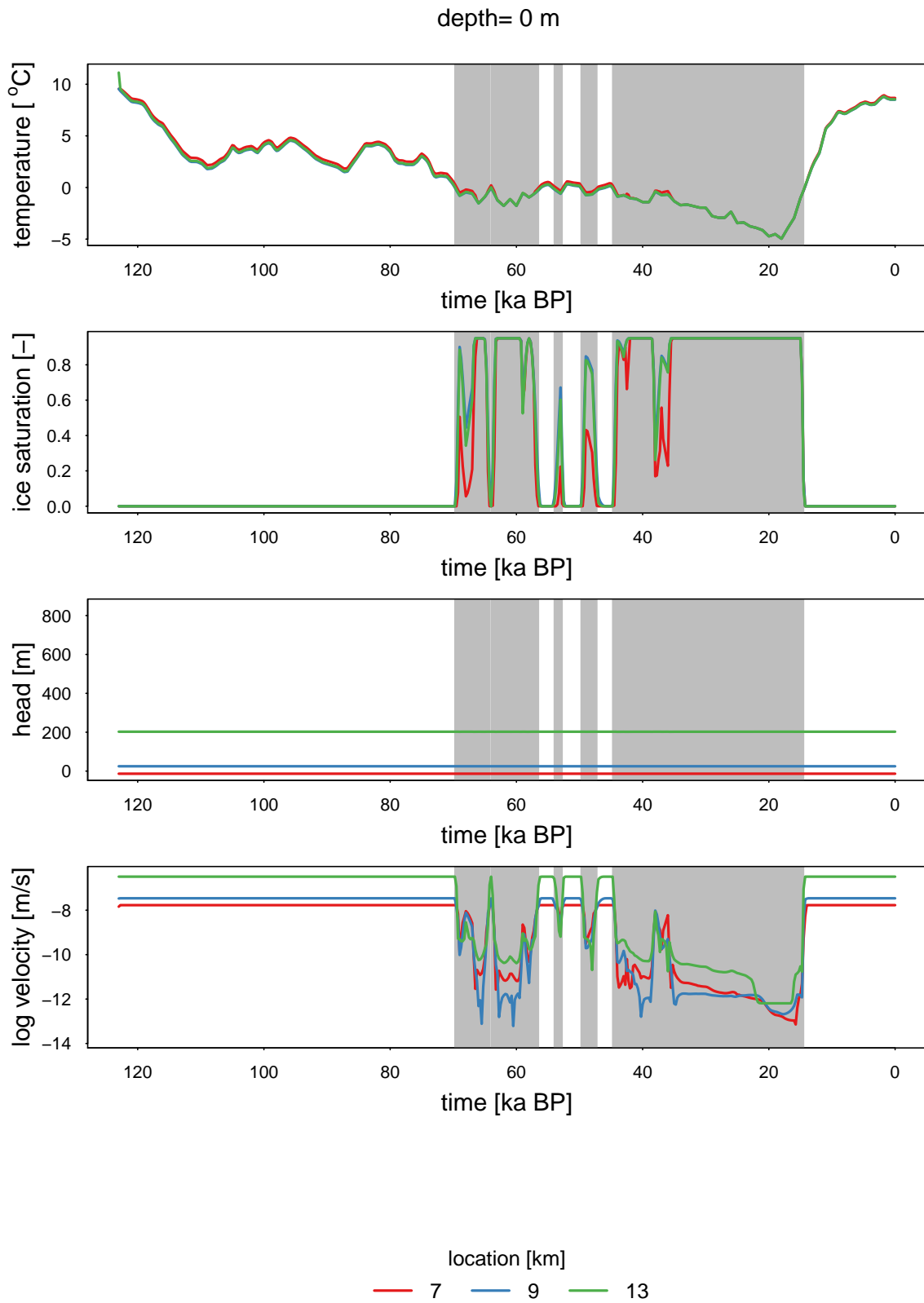
location [km]
— 7 — 9 — 13



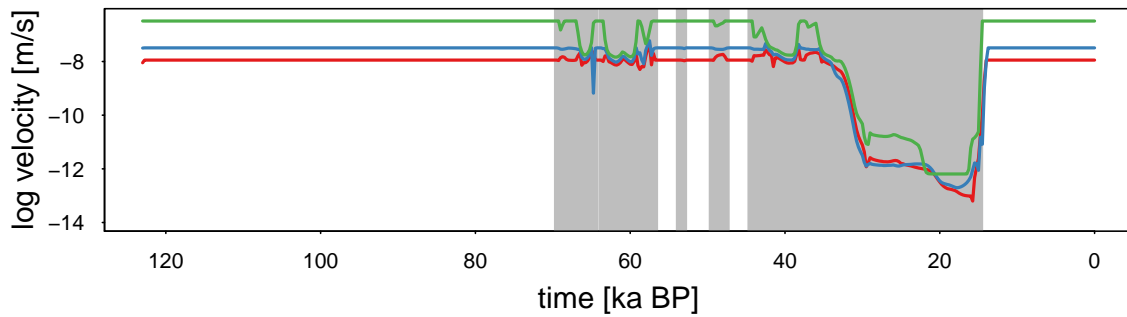
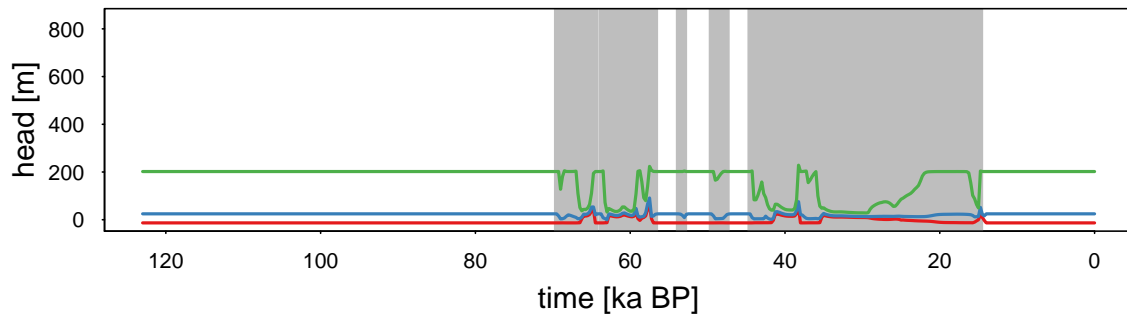
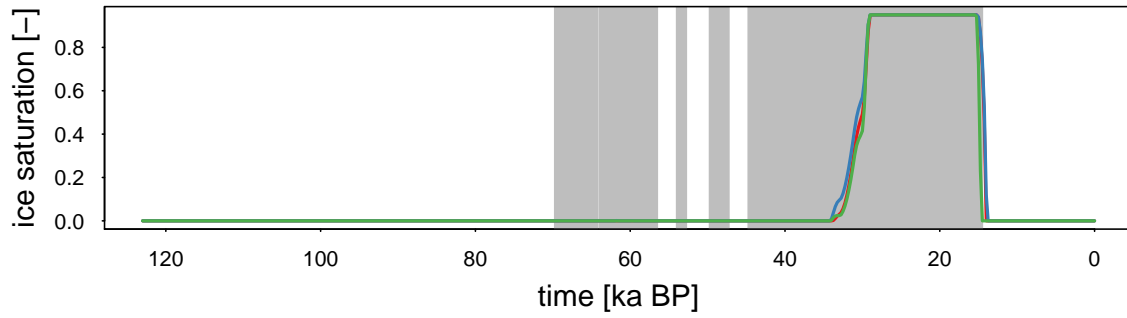
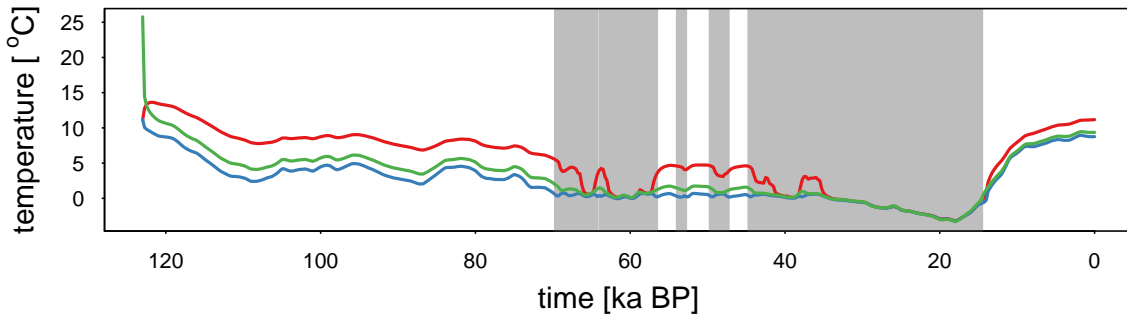




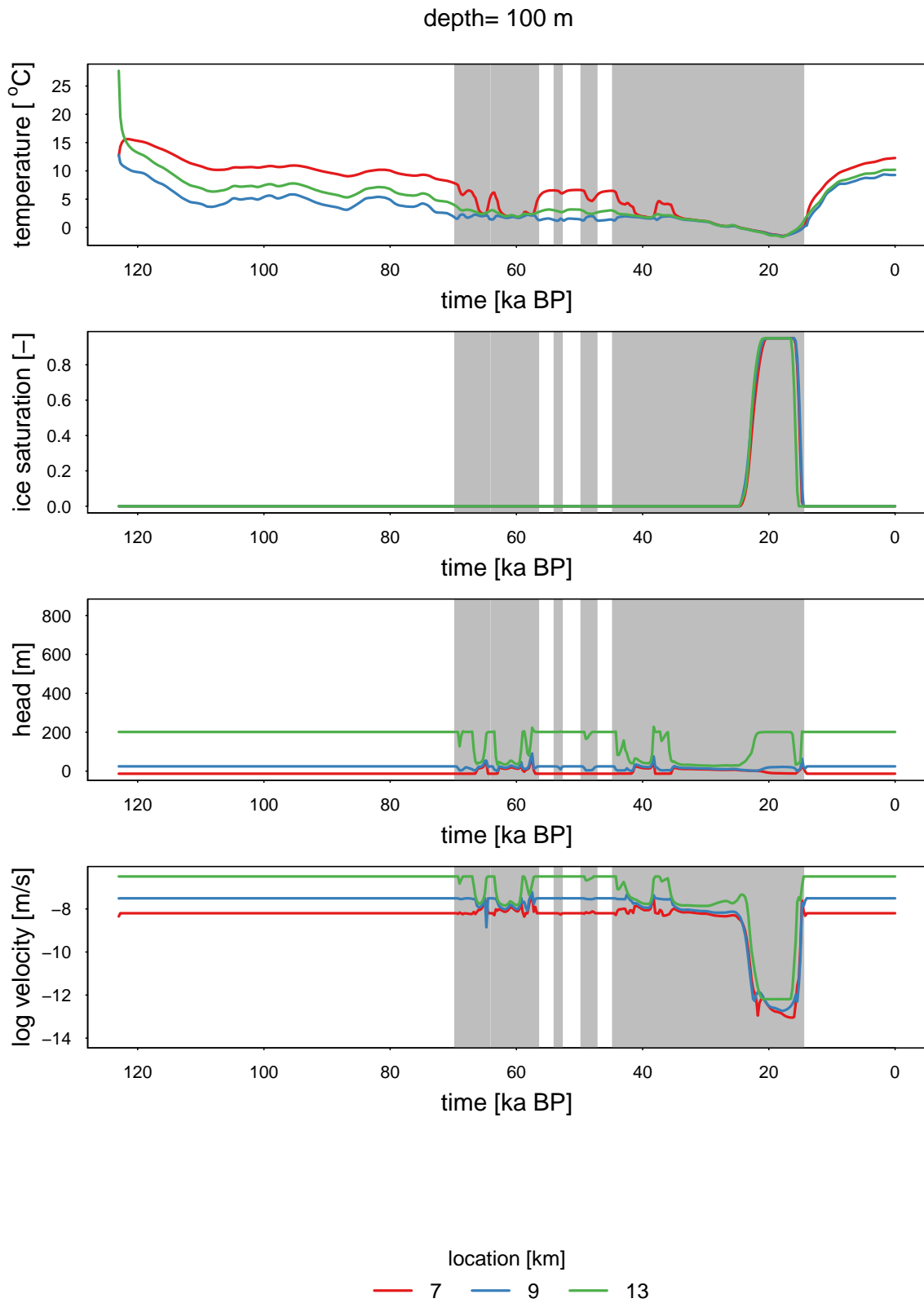
1.1.4 Run T-14_Max

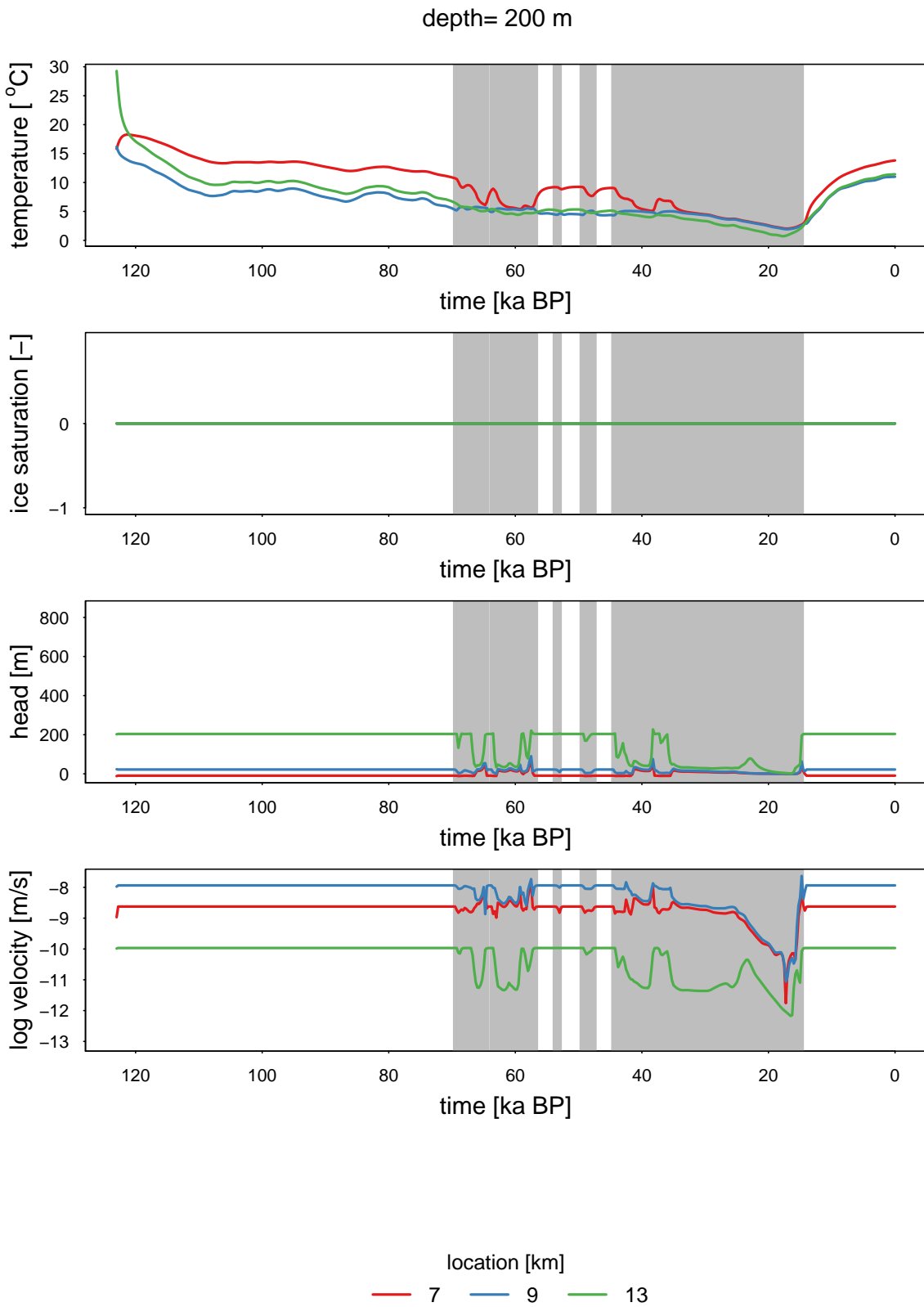


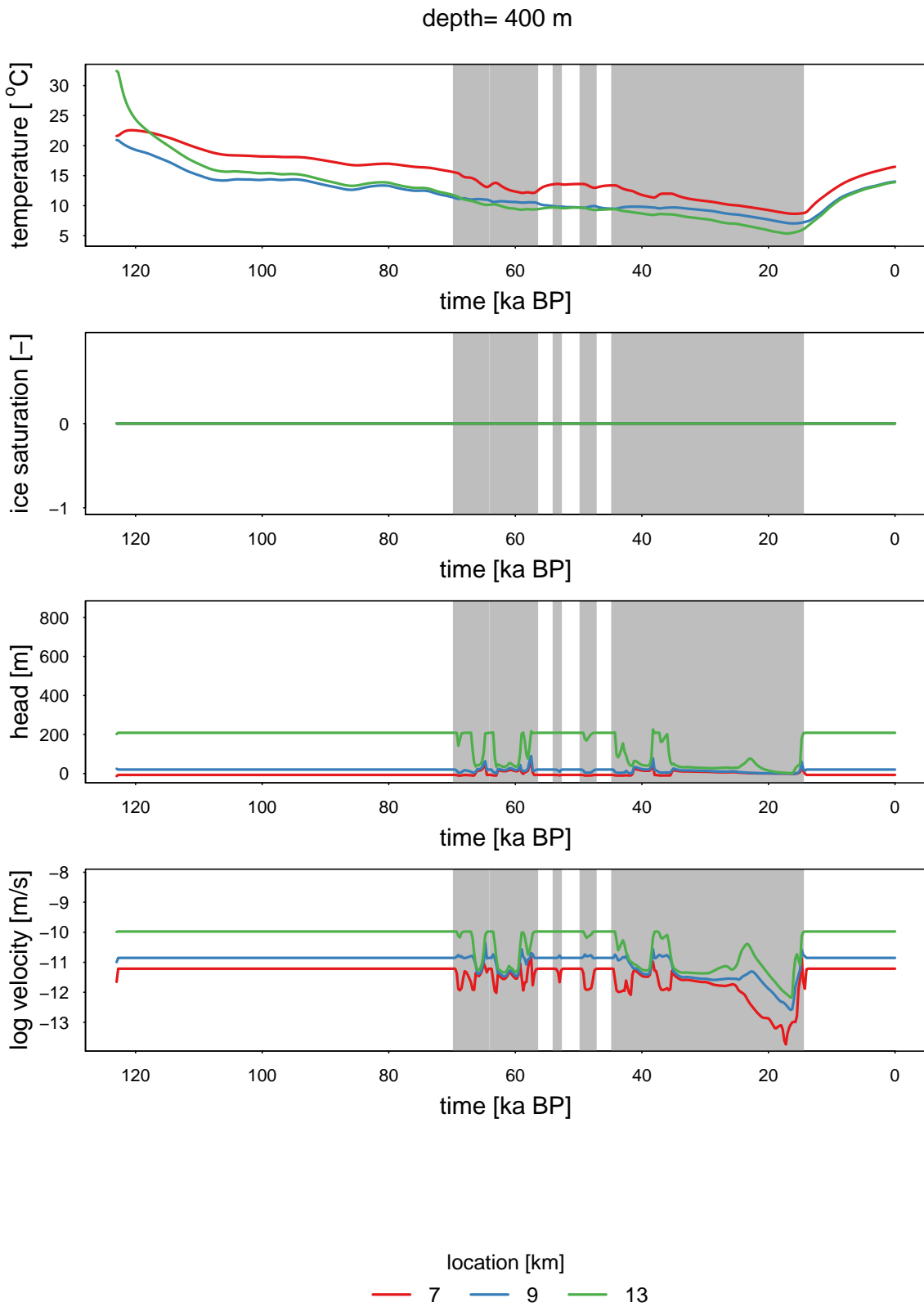
depth= 50 m



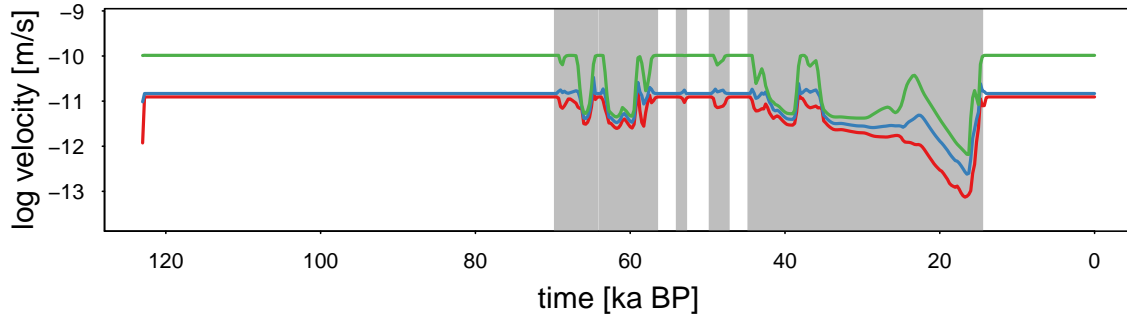
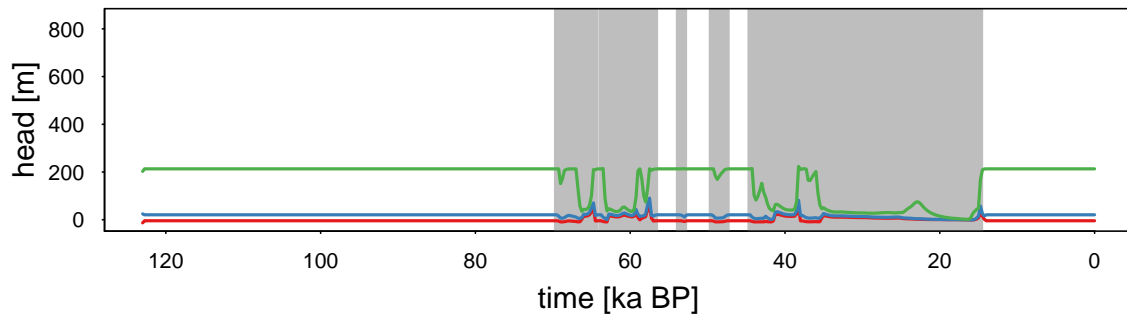
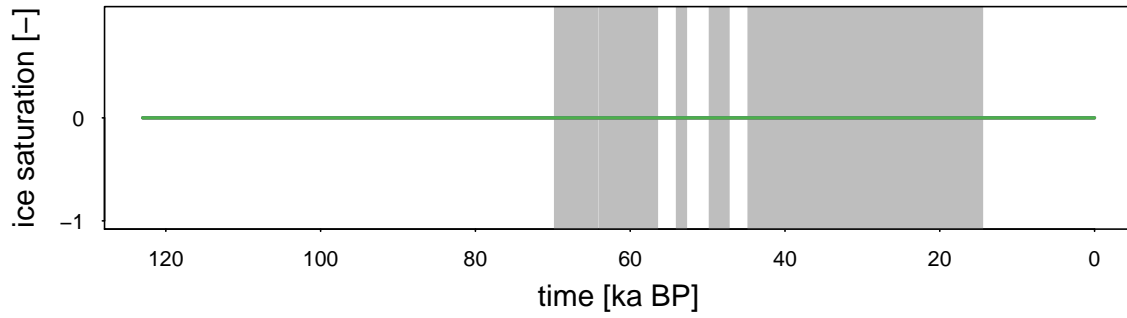
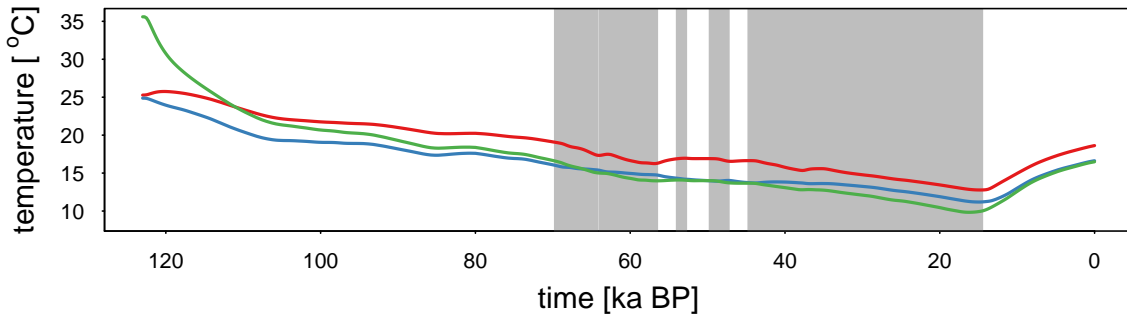
location [km]
— 7 — 9 — 13





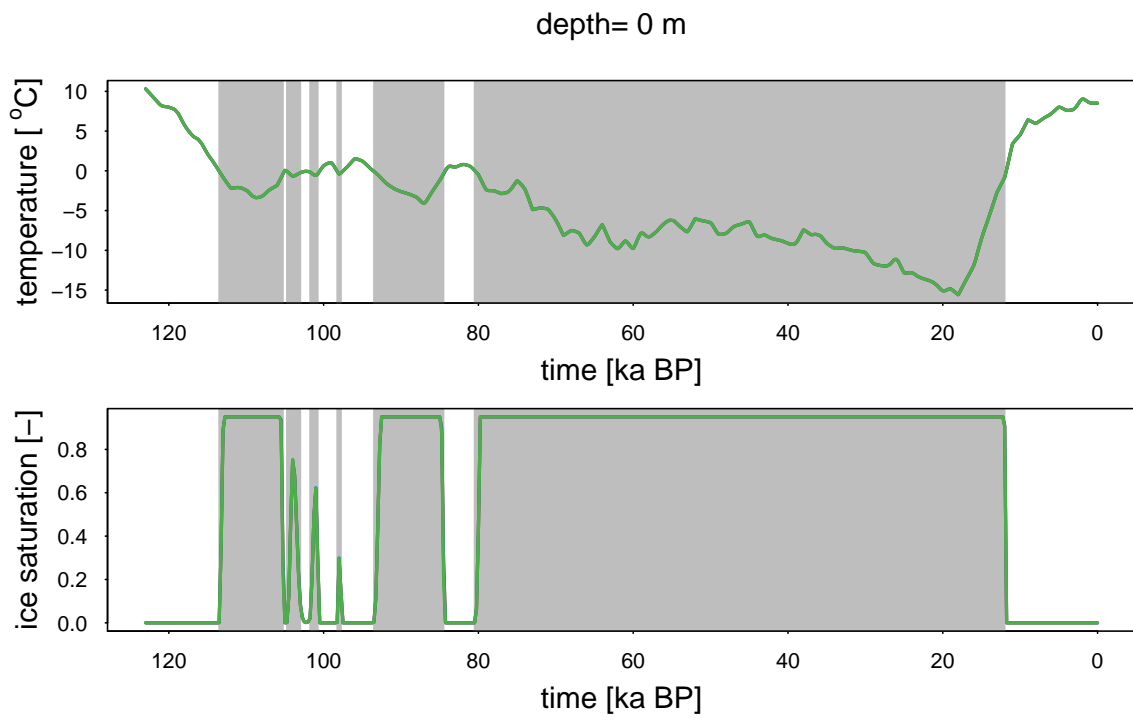


depth= 600 m



location [km]
— 7 — 9 — 13

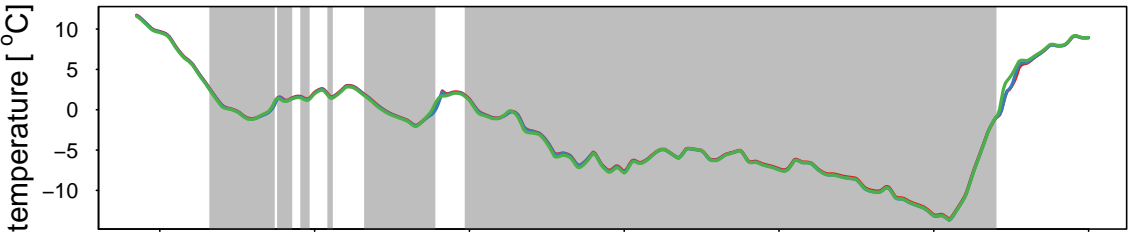
1.1.5 Run T-25_Cond



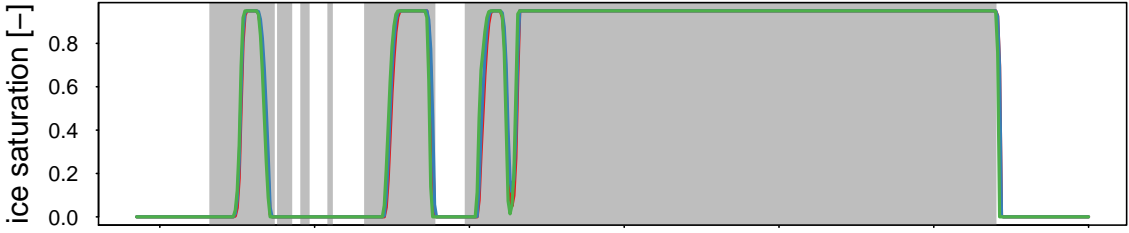
location [km]

— 7 — 9 — 13

depth= 50 m



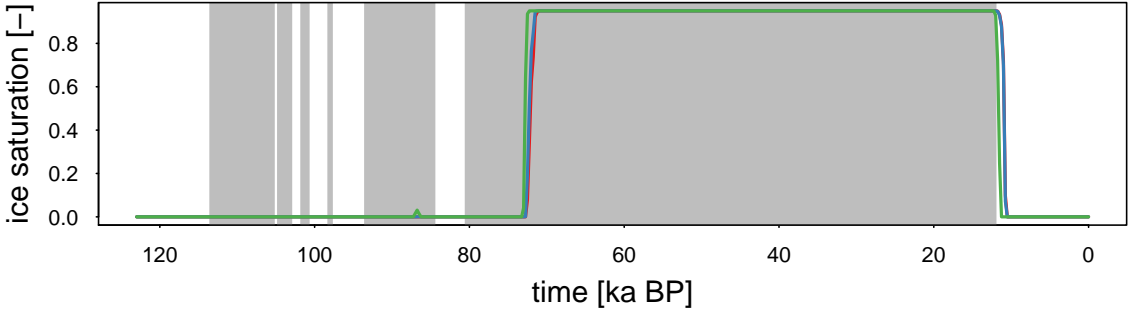
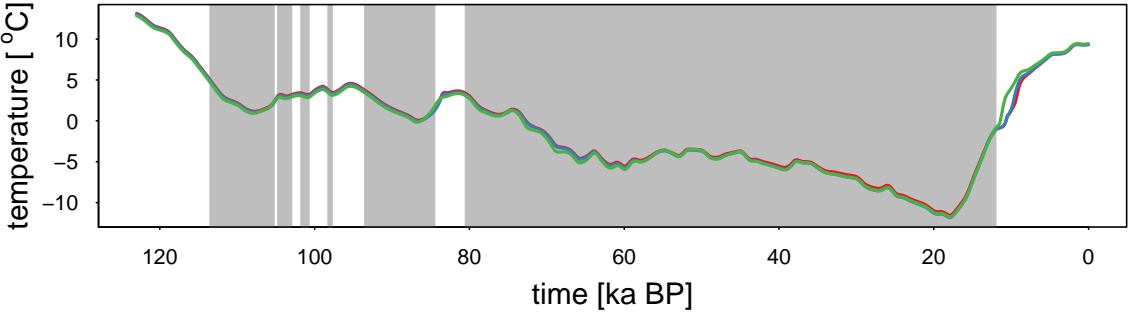
time [ka BP]



time [ka BP]

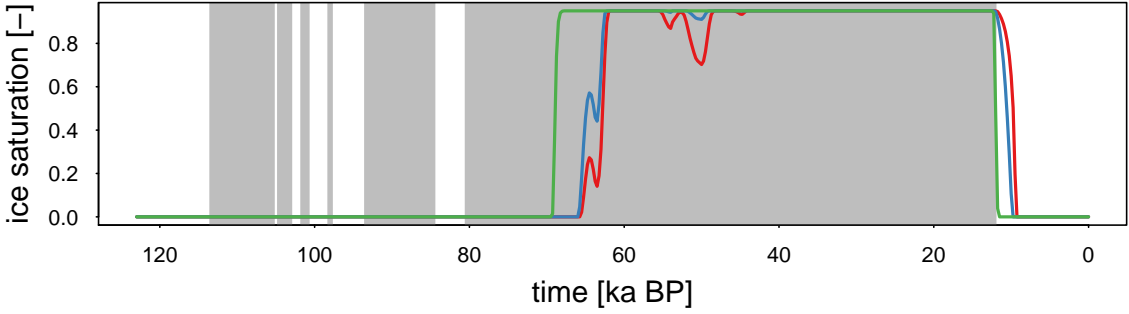
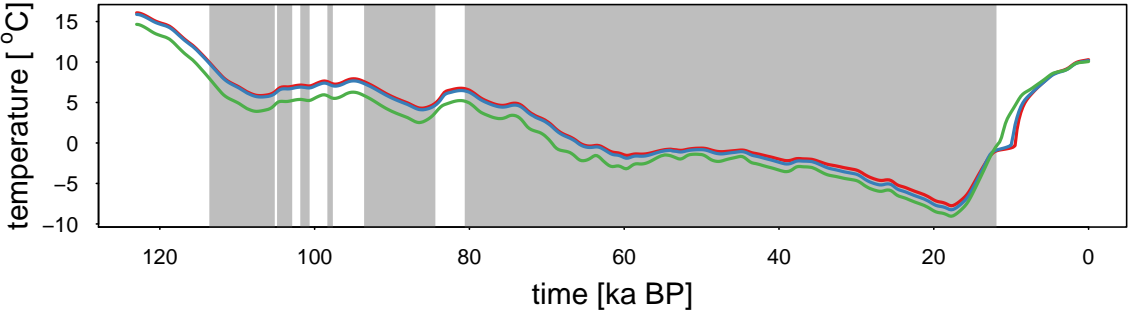
location [km]
— 7 — 9 — 13

depth= 100 m



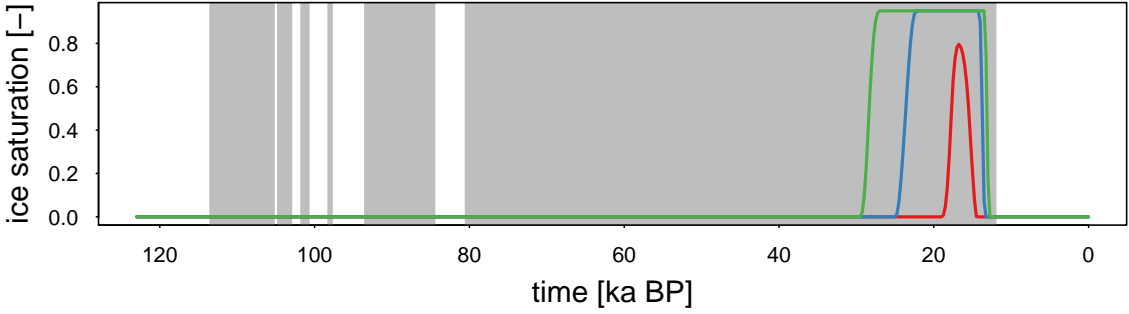
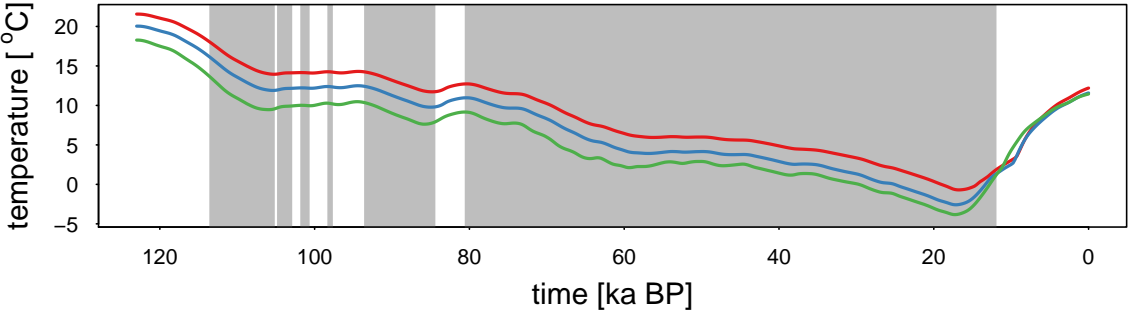
location [km]
— 7 — 9 — 13

depth= 200 m



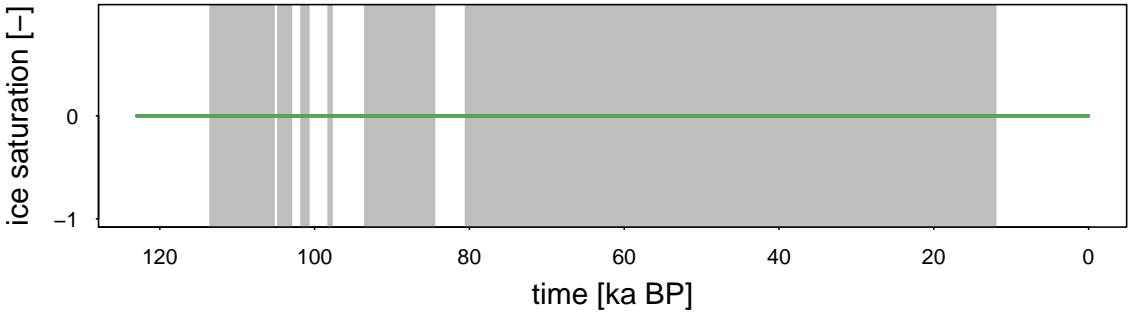
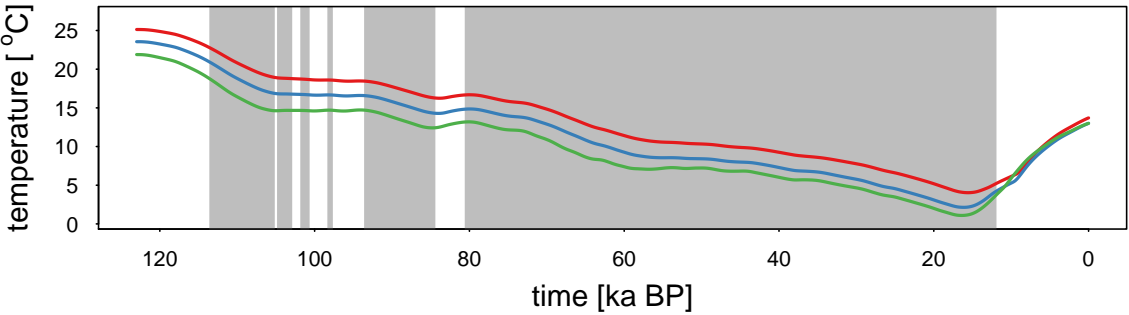
location [km]
— 7 — 9 — 13

depth= 400 m



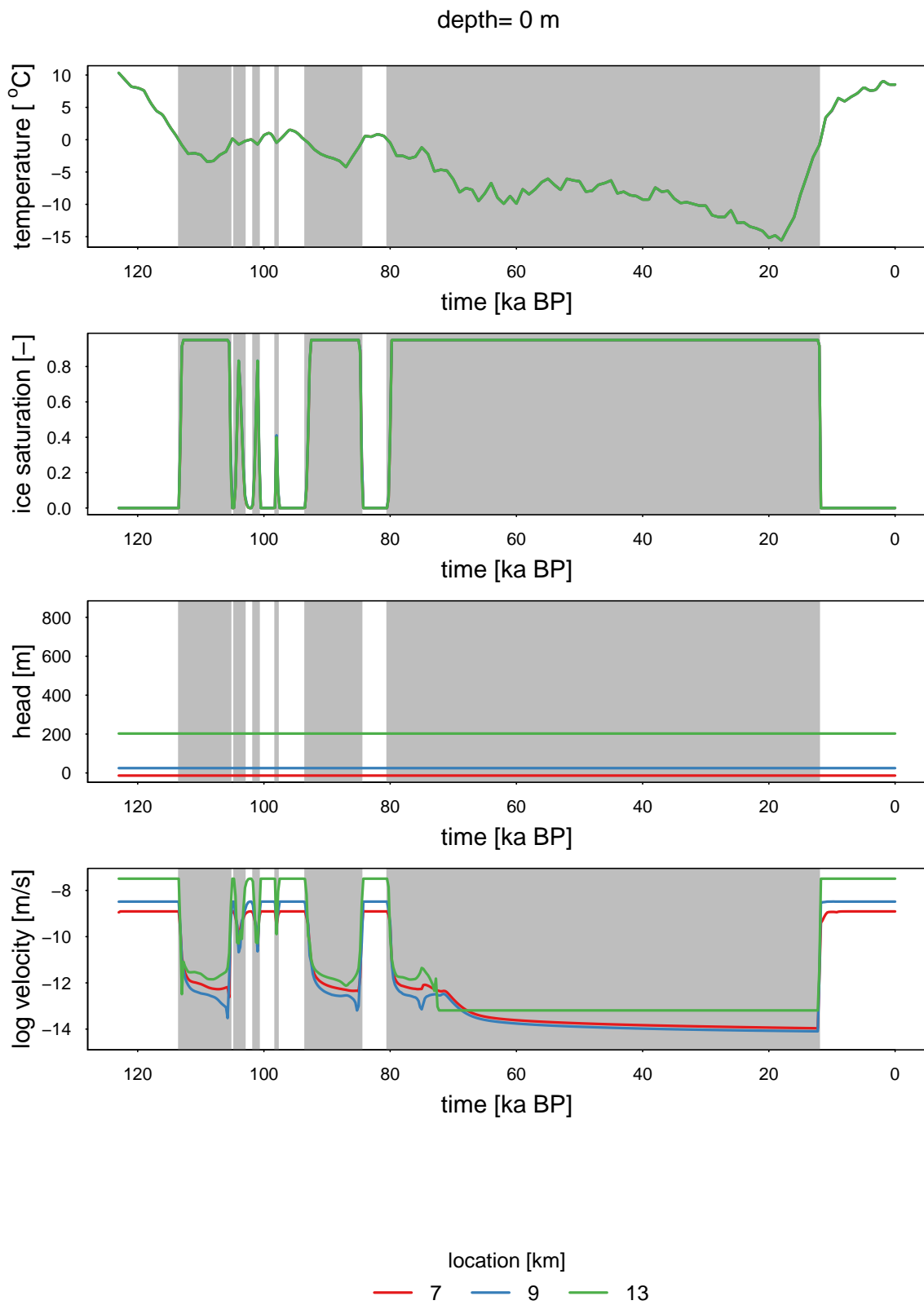
location [km]
— 7 — 9 — 13

depth= 600 m

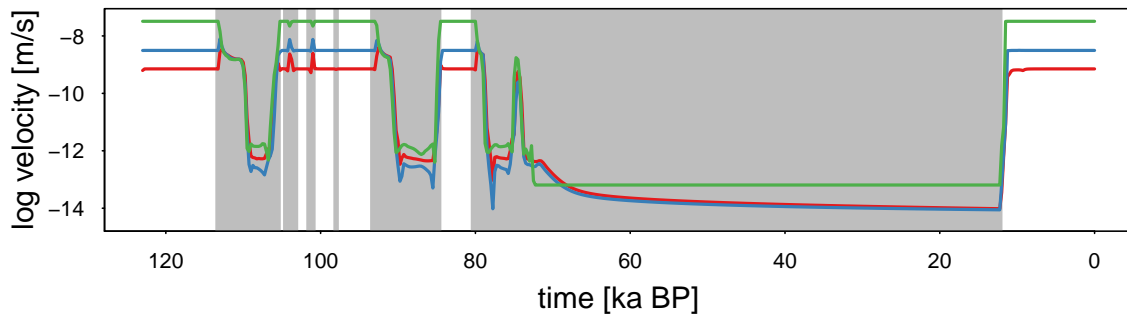
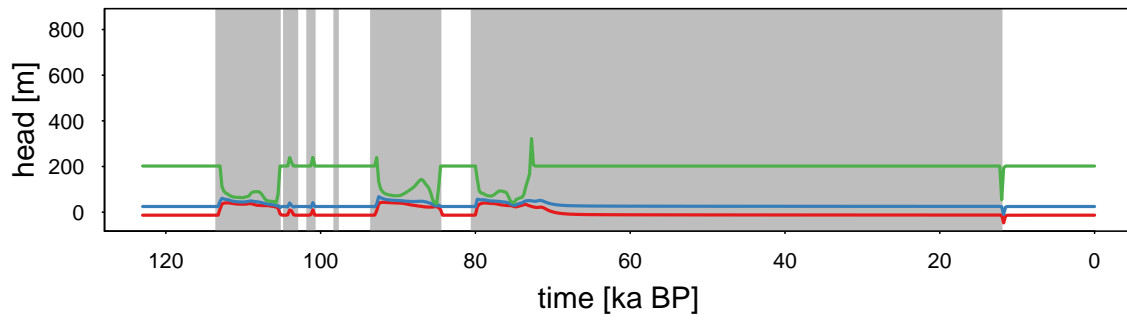
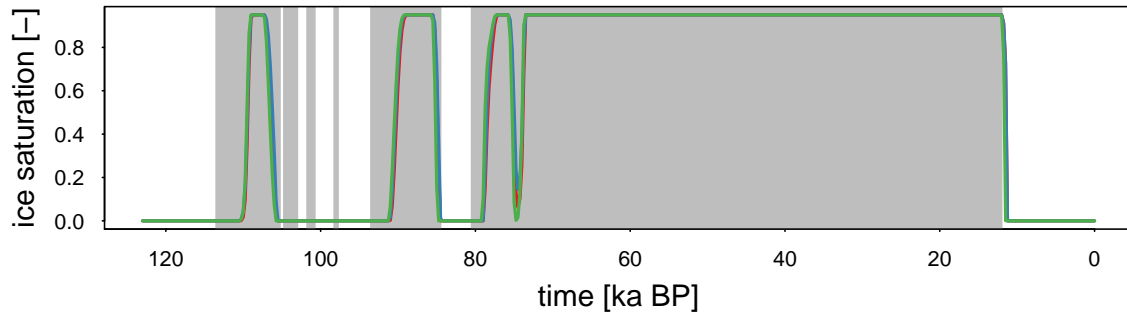
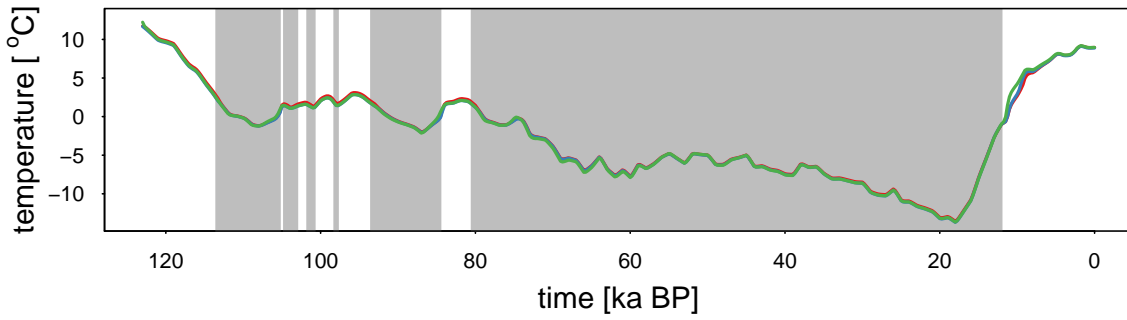


location [km]
— 7 — 9 — 13

1.1.6 Run T-25_Min

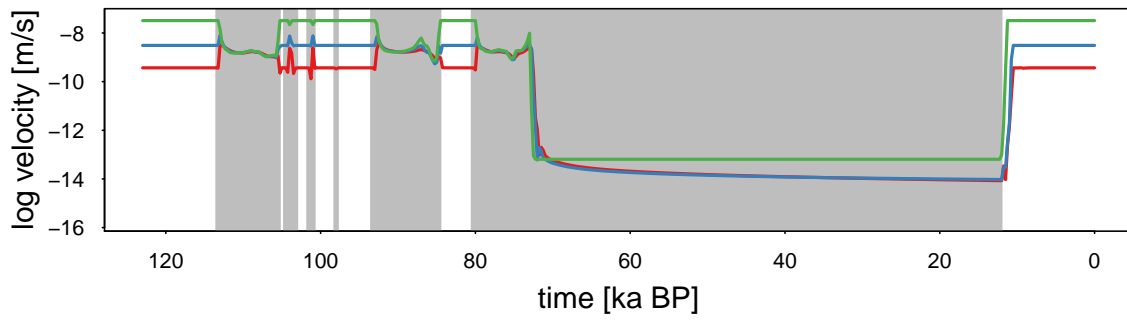
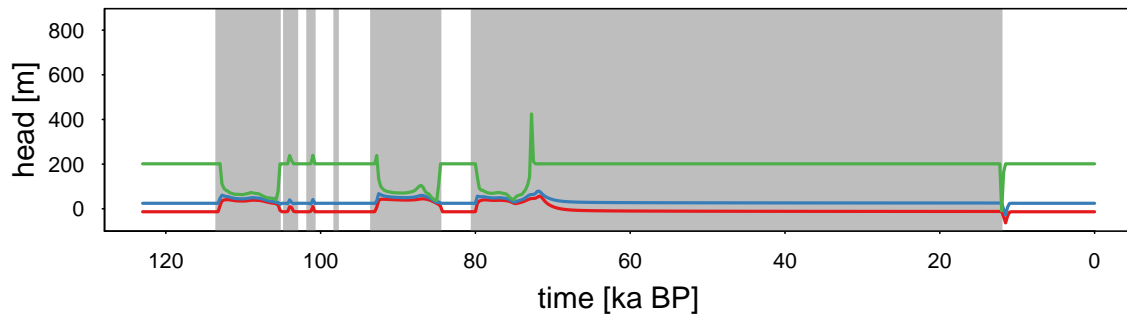
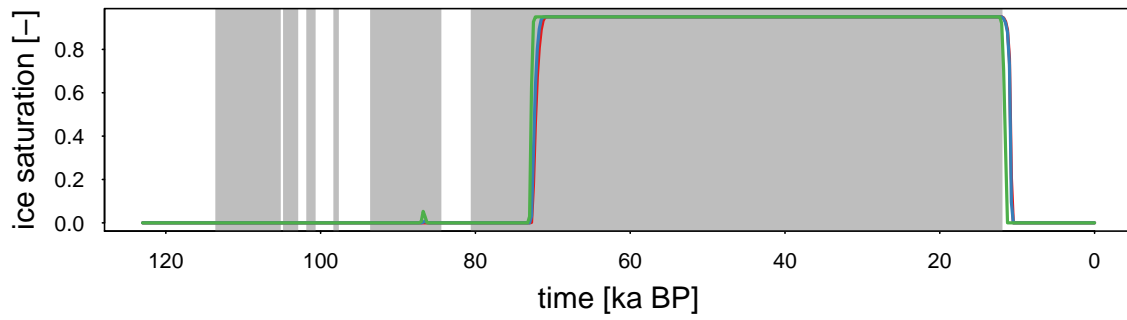
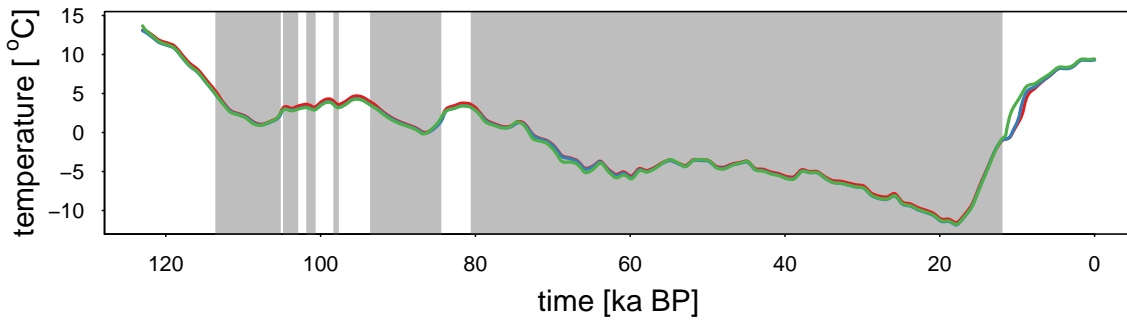


depth= 50 m



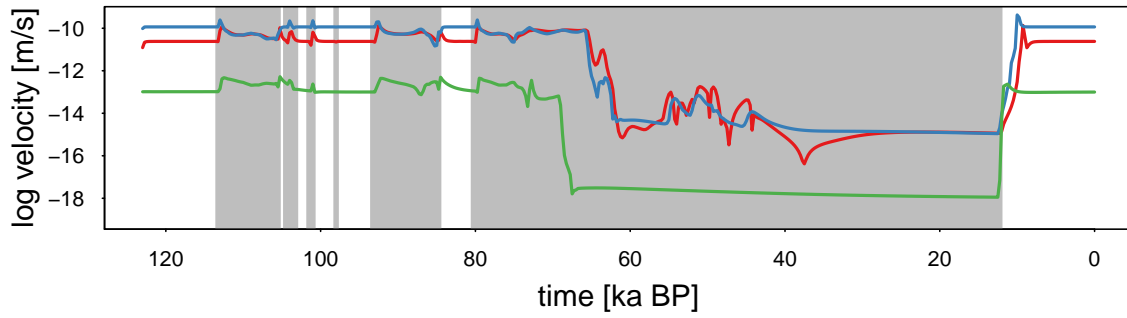
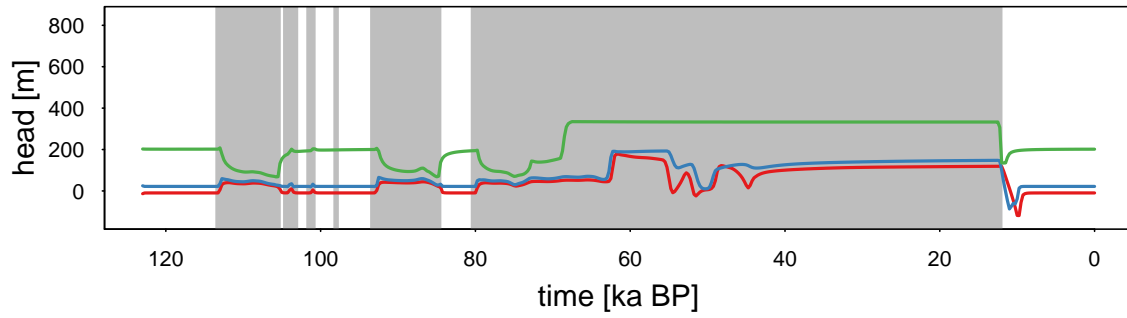
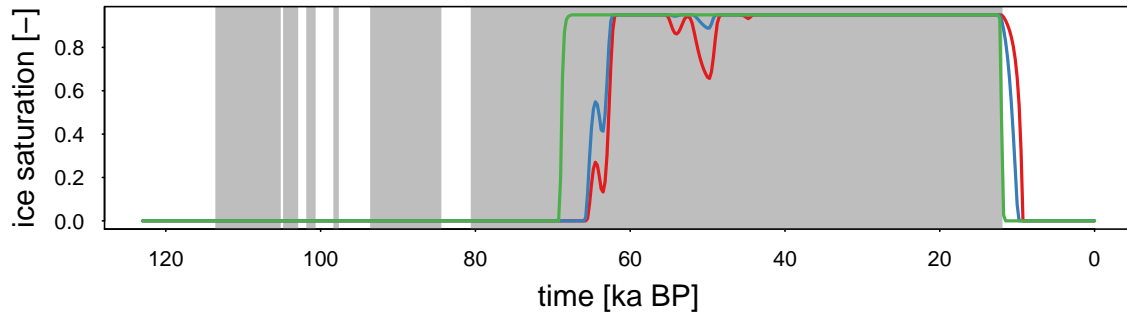
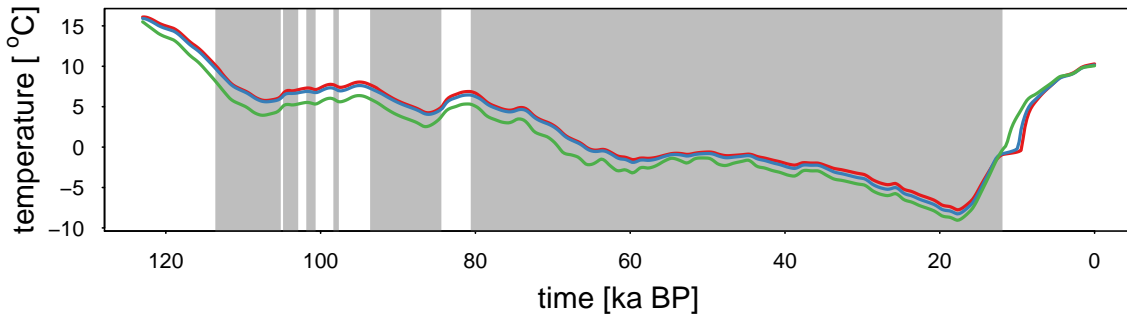
location [km]
— 7 — 9 — 13

depth= 100 m



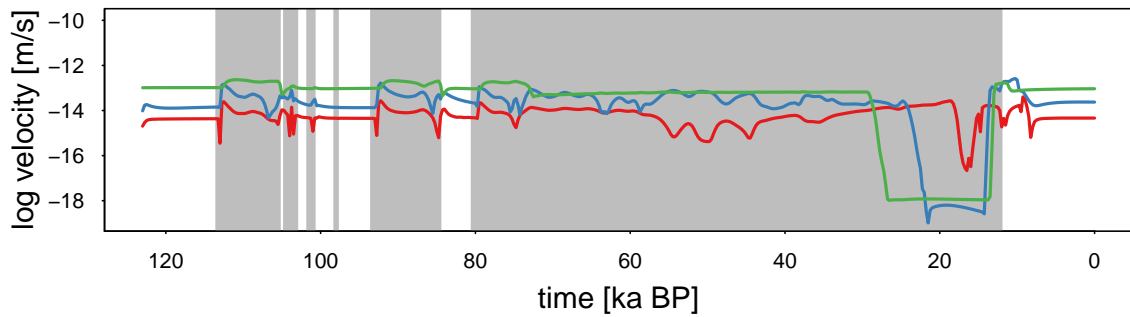
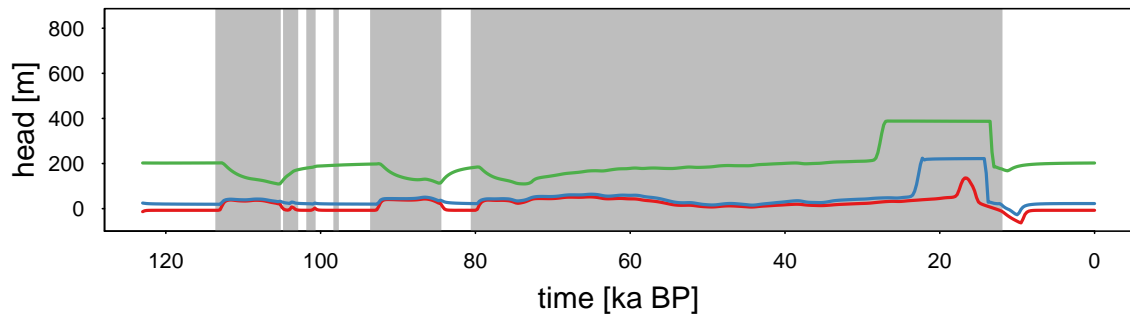
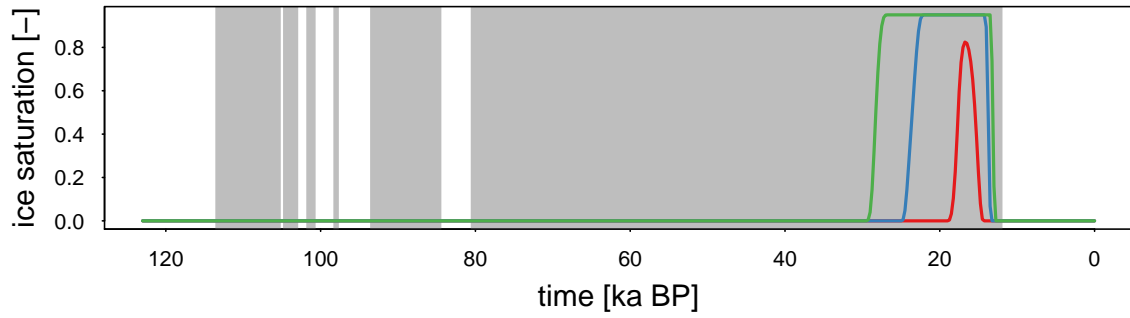
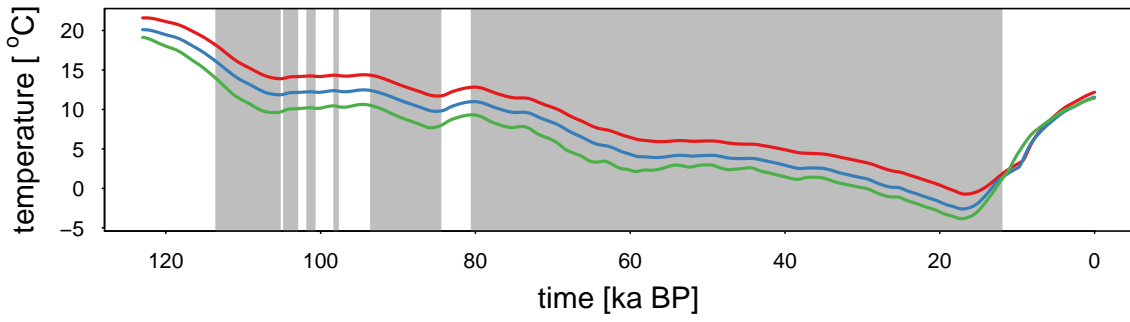
location [km]
— 7 — 9 — 13

depth= 200 m



location [km]
— 7 — 9 — 13

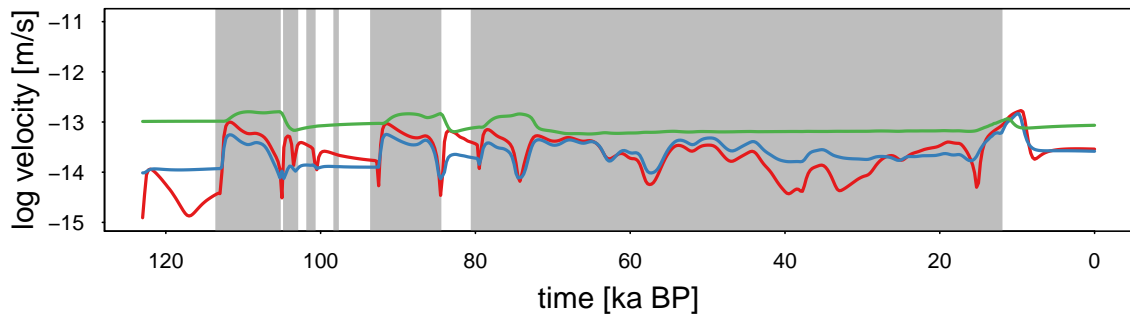
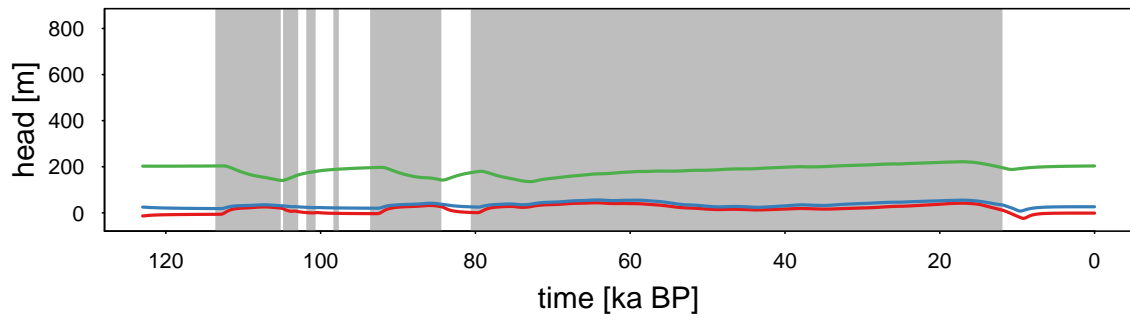
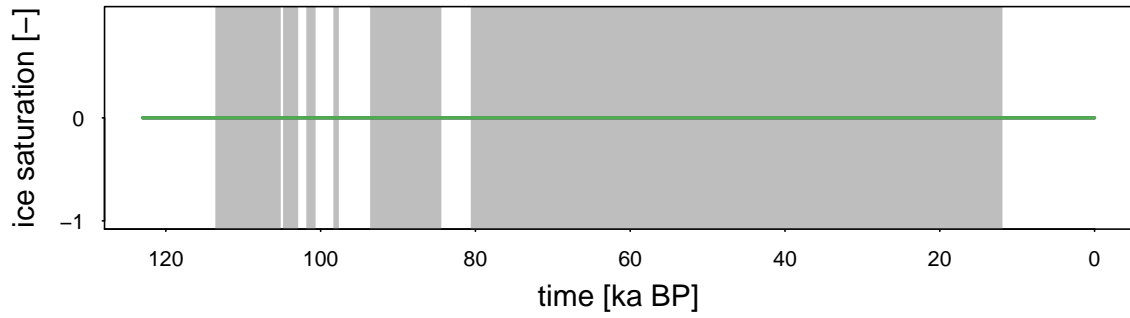
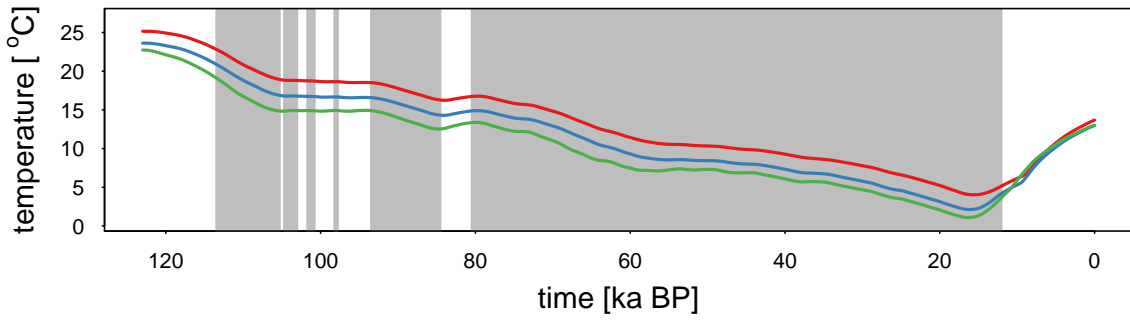
depth= 400 m



location [km]
— 7 — 9 — 13

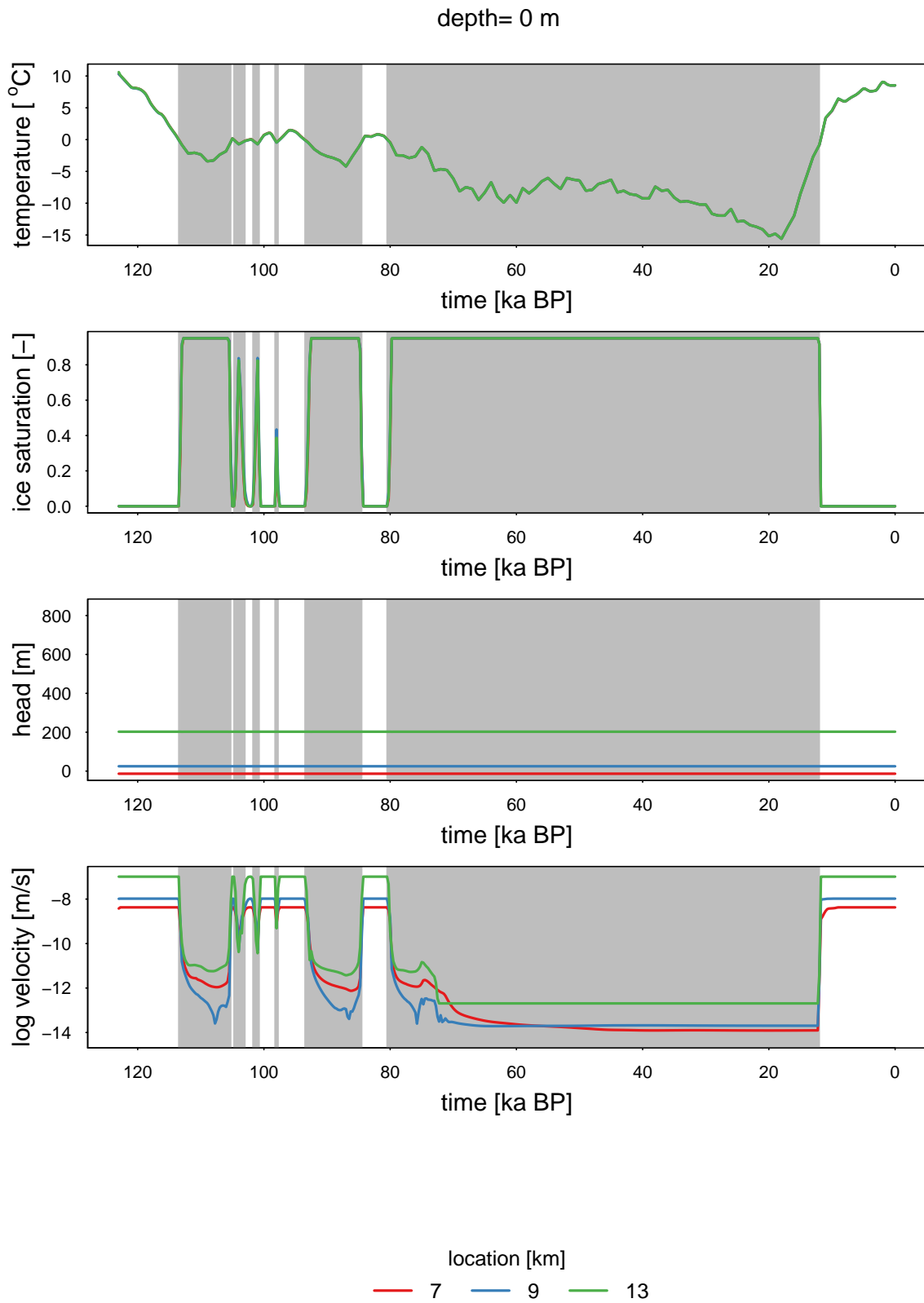
T-25_Min

depth= 600 m

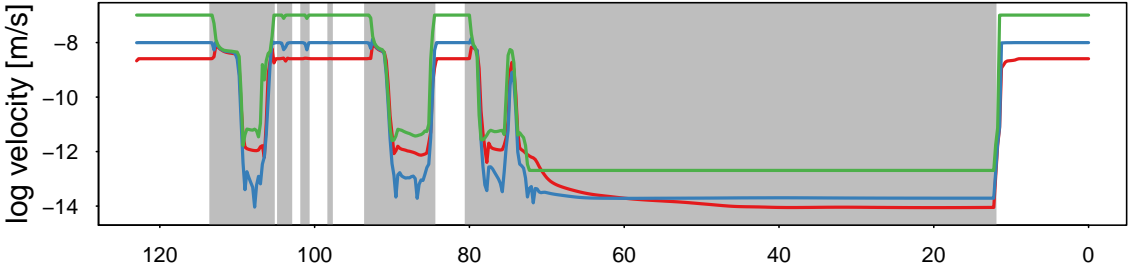
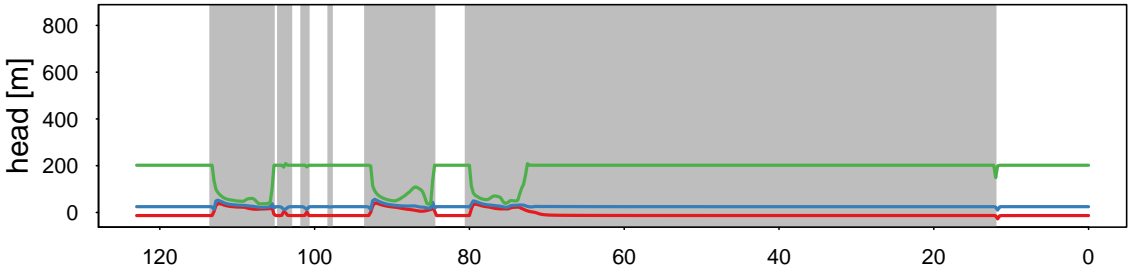
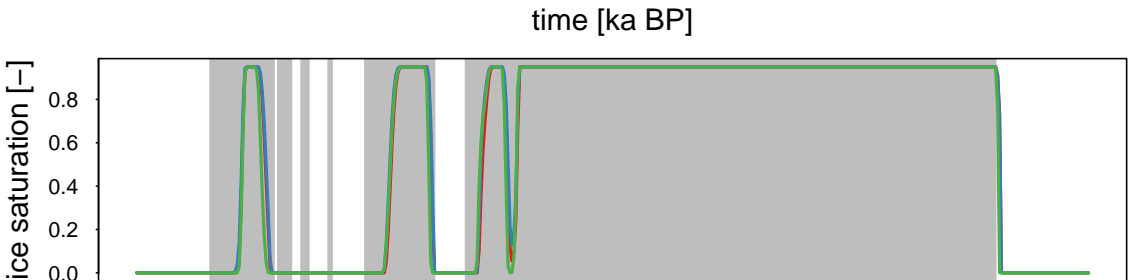
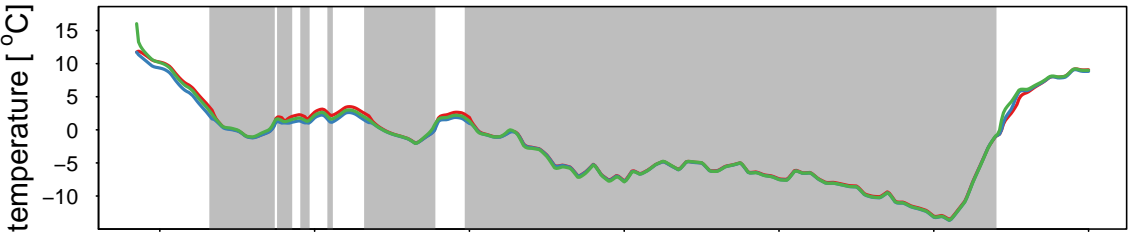


location [km]
— 7 — 9 — 13

1.1.7 Run T-25_Med

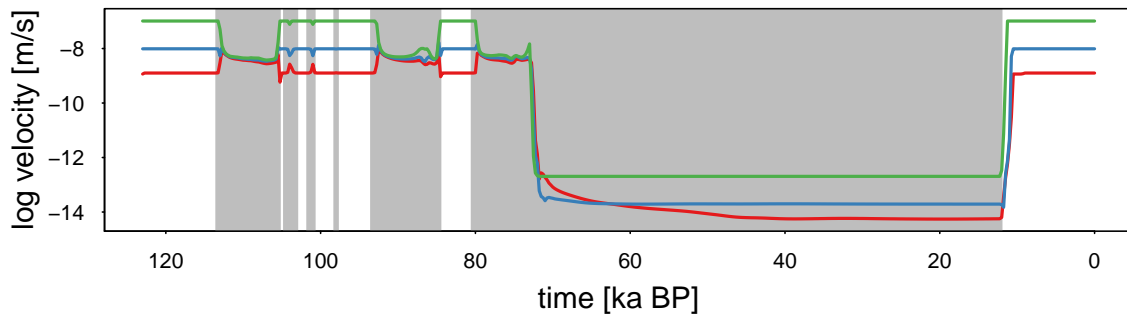
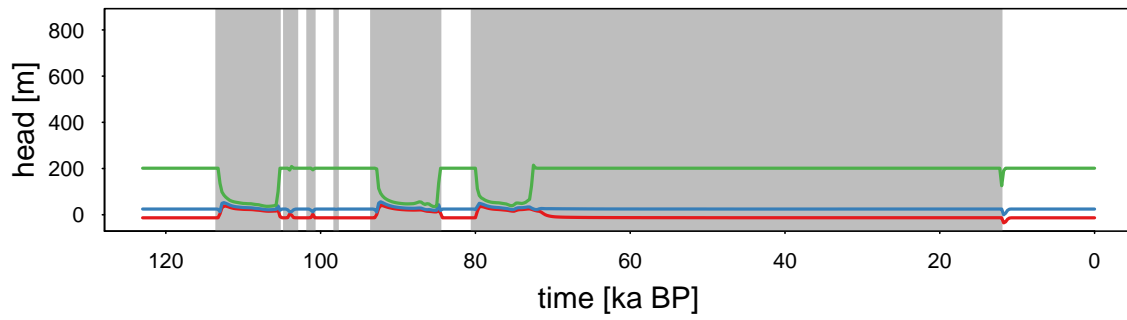
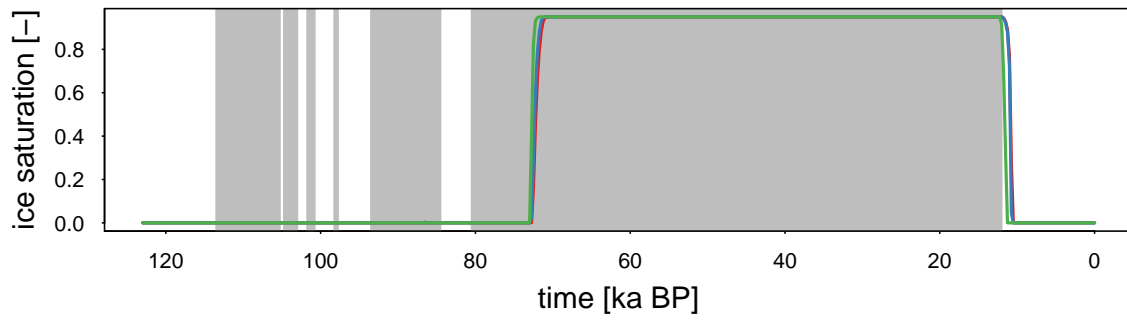
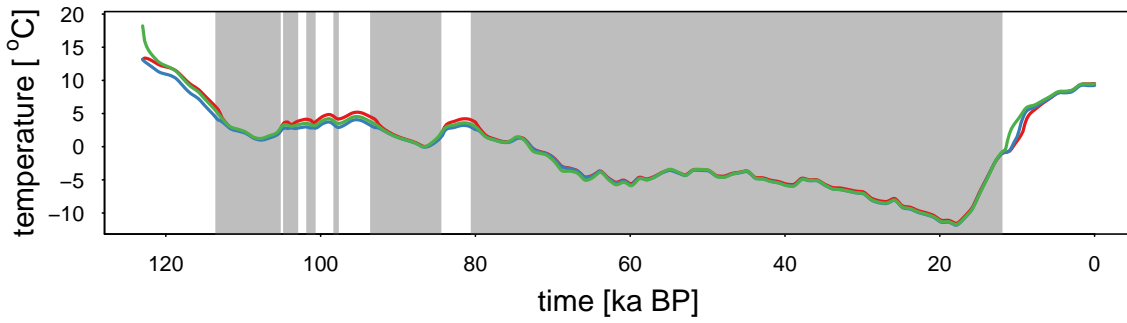


depth= 50 m



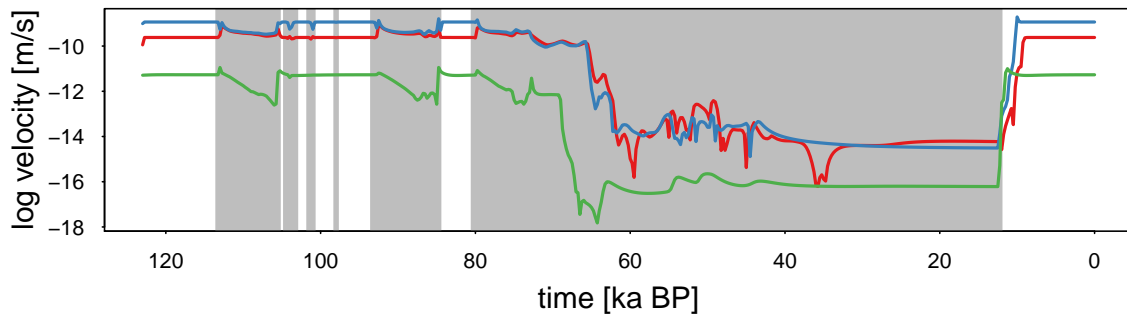
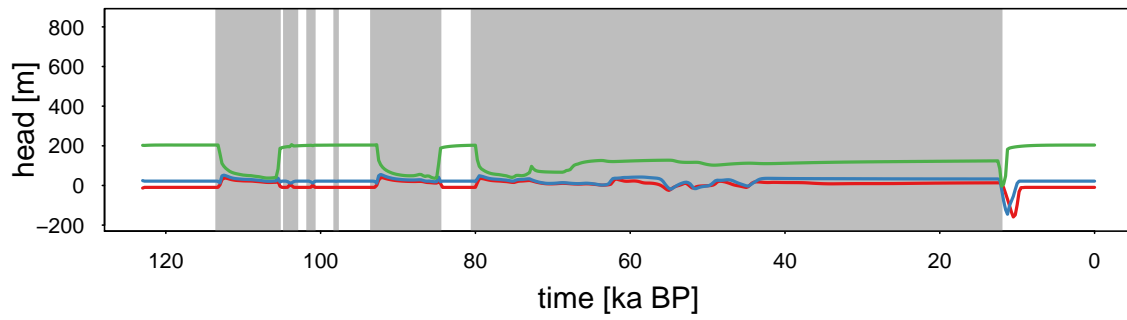
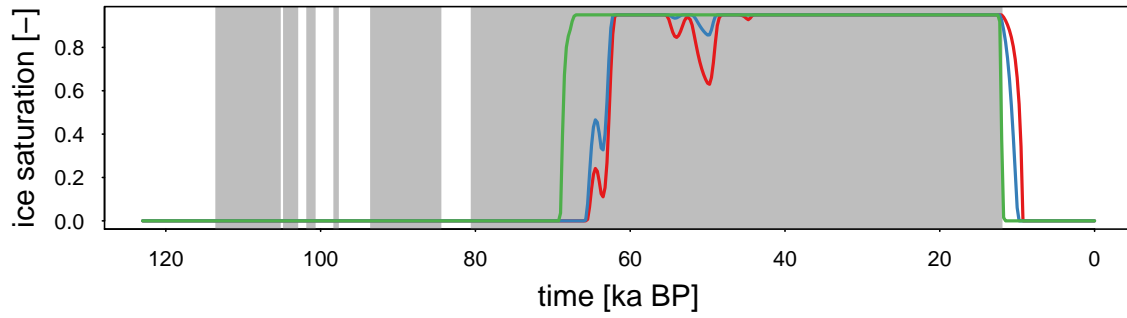
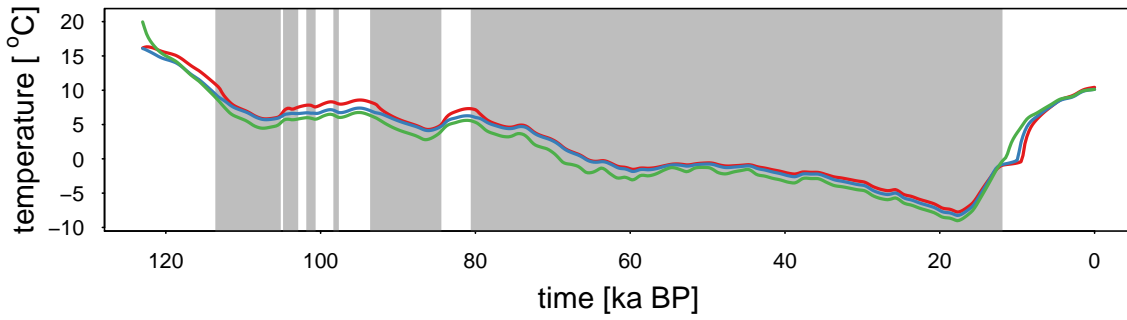
location [km]
— 7 — 9 — 13

depth= 100 m



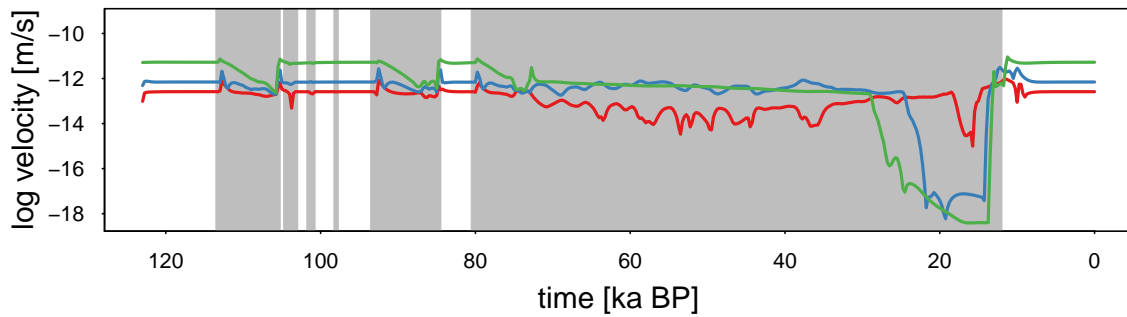
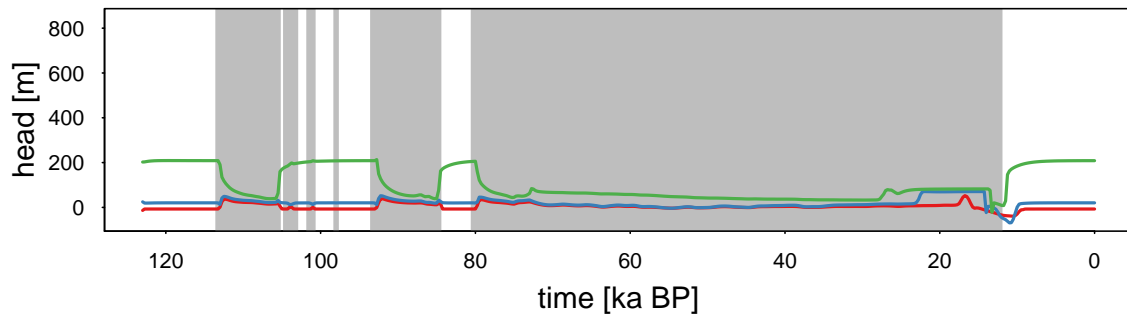
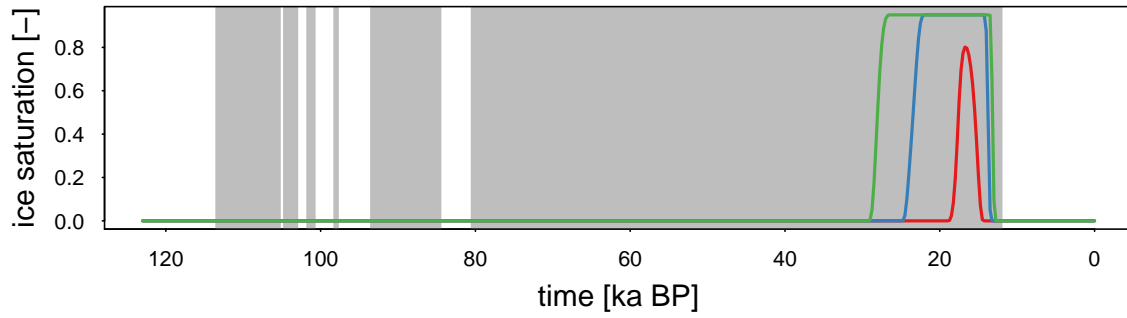
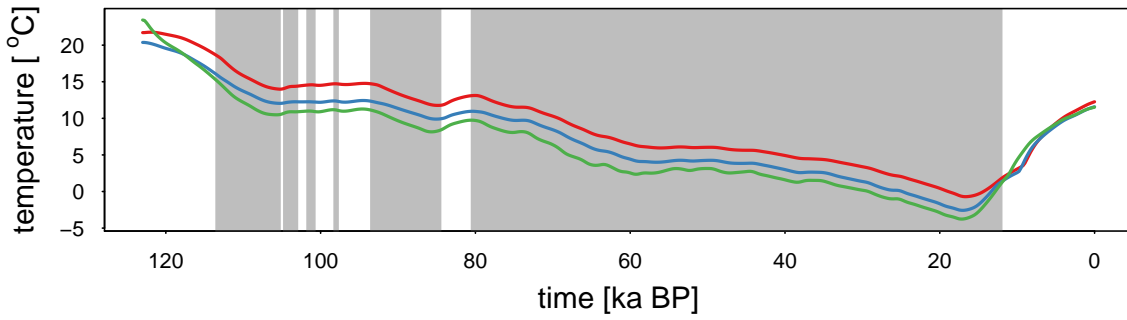
location [km]
— 7 — 9 — 13

depth= 200 m



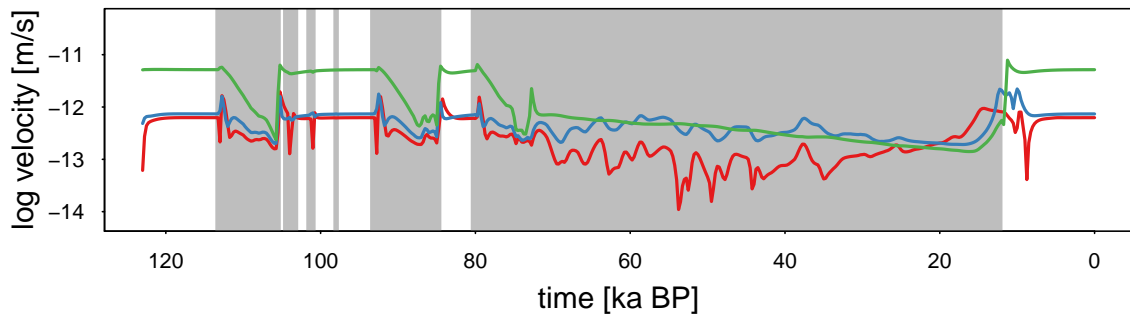
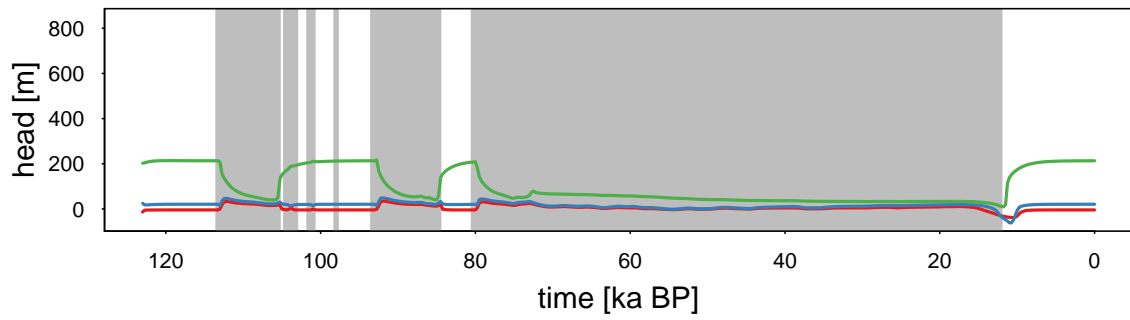
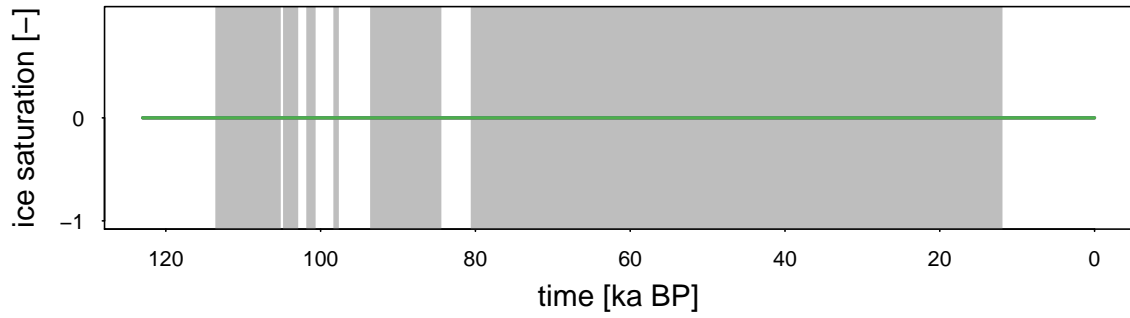
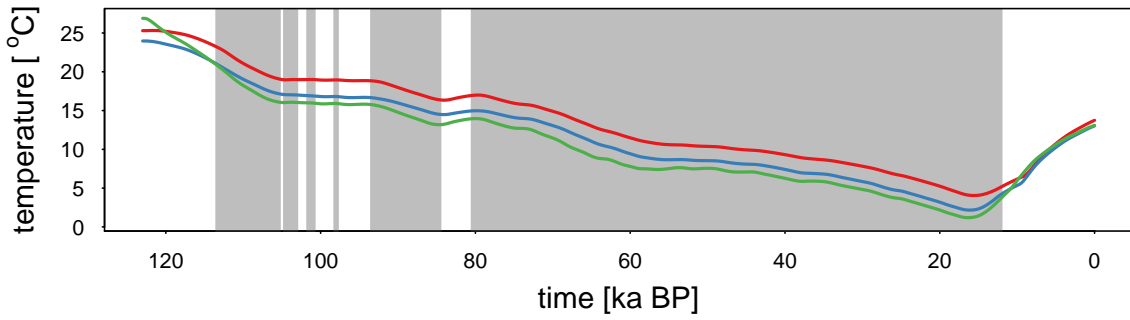
location [km]
— 7 — 9 — 13

depth= 400 m



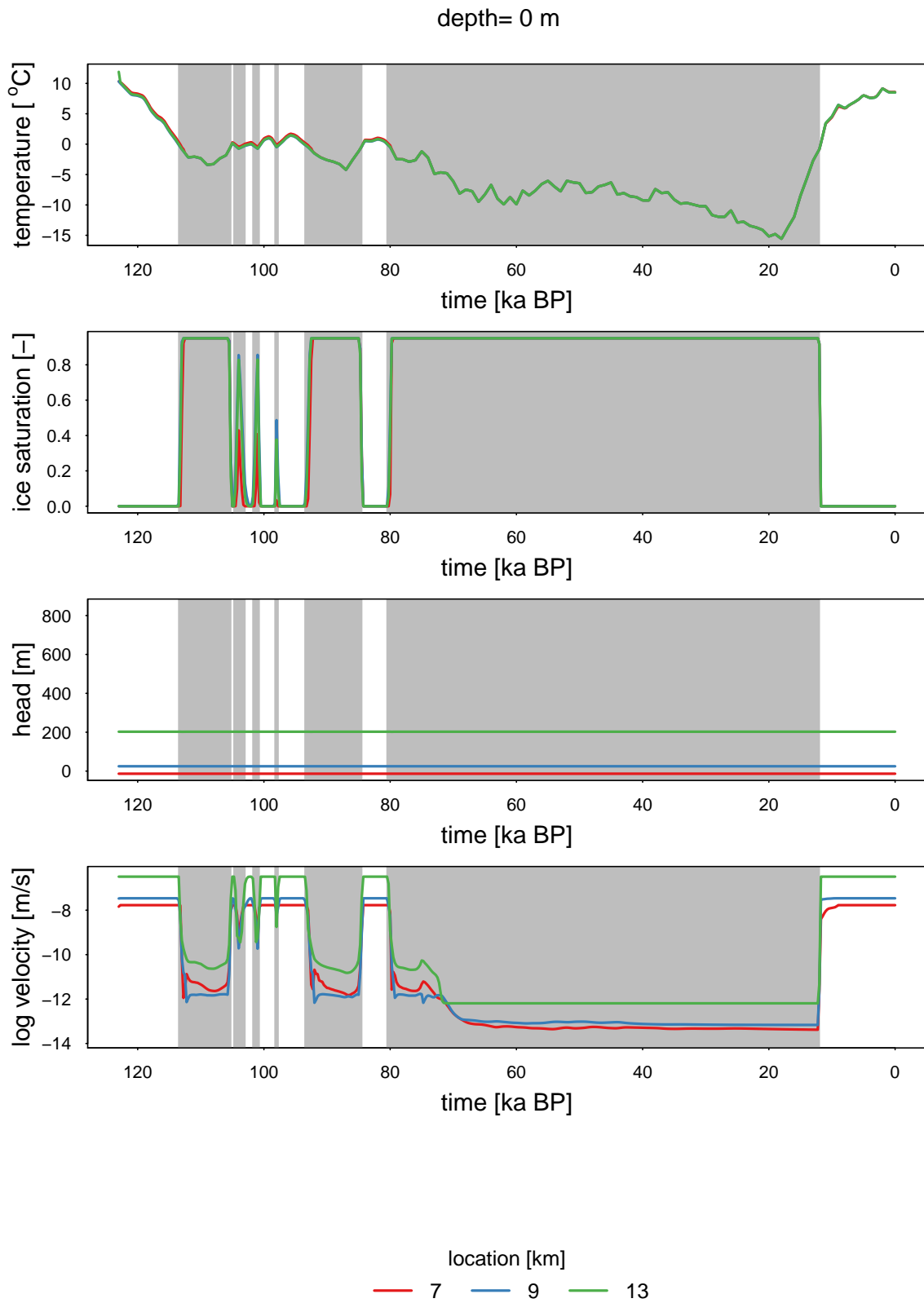
location [km]
— 7 — 9 — 13

depth= 600 m

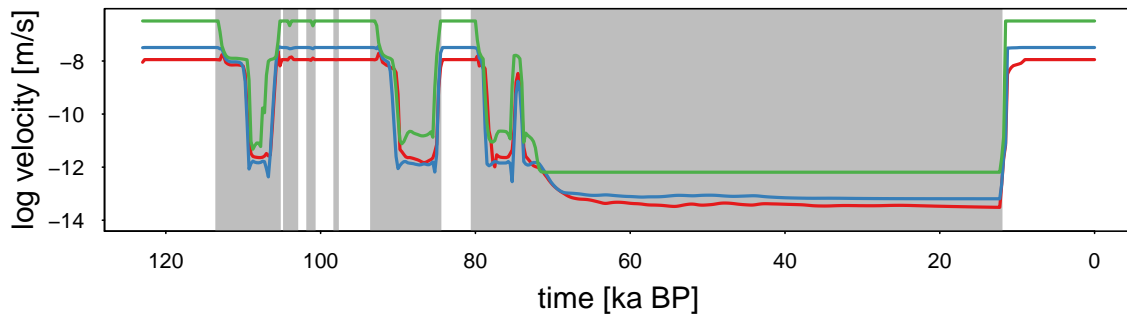
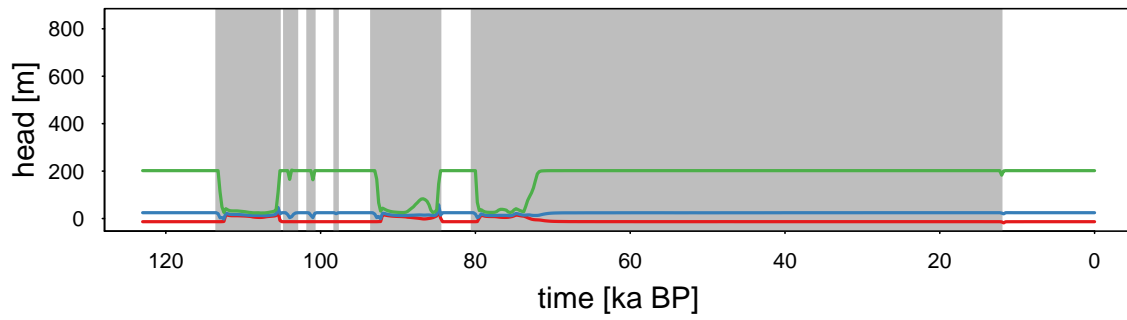
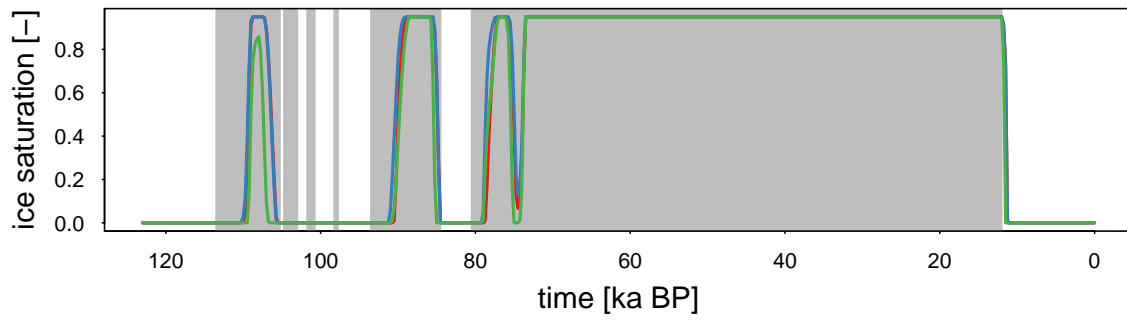
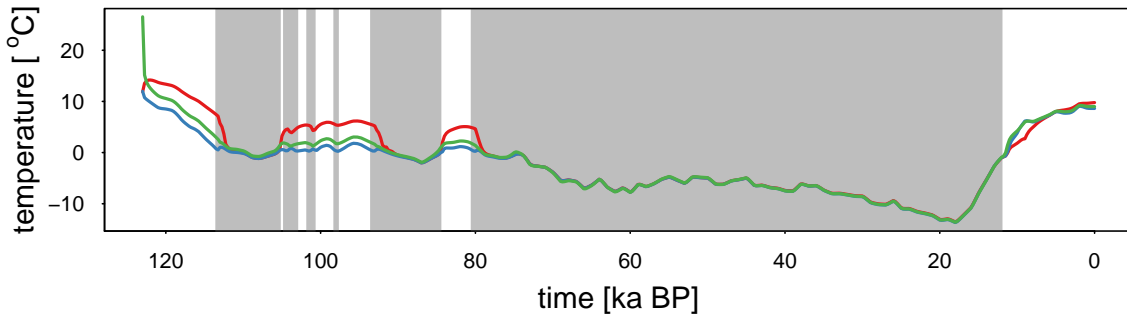


location [km]
— 7 — 9 — 13

1.1.8 Run T-25_Max

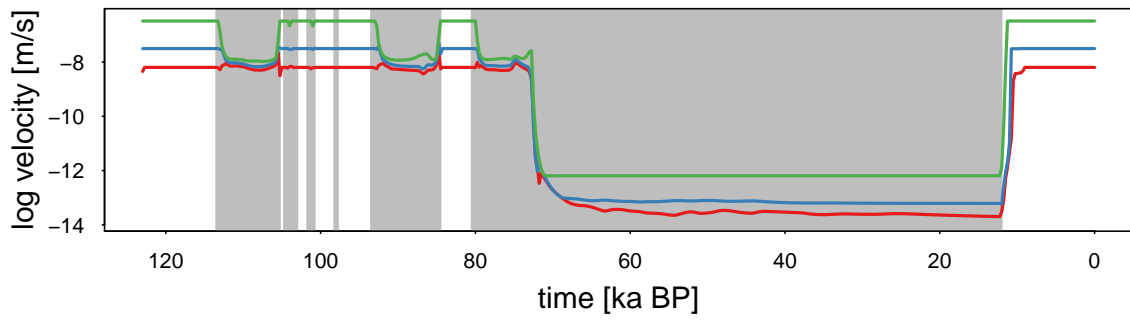
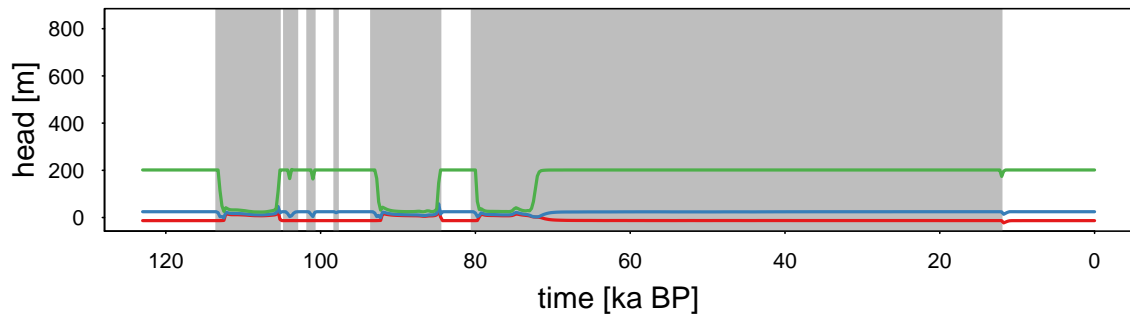
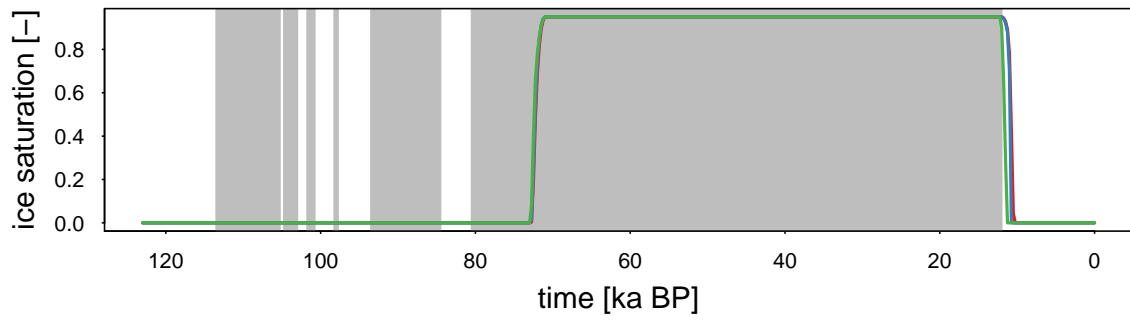
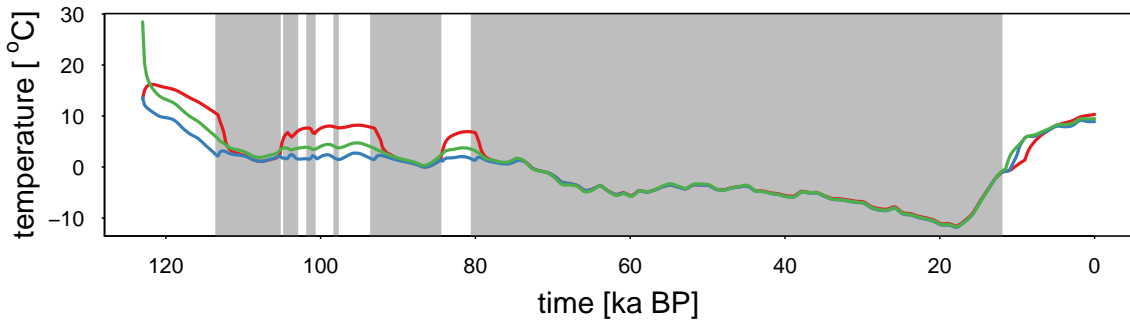


depth= 50 m



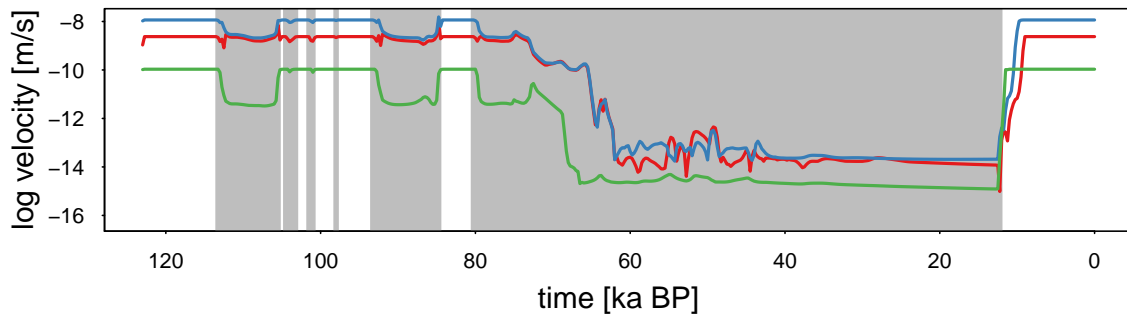
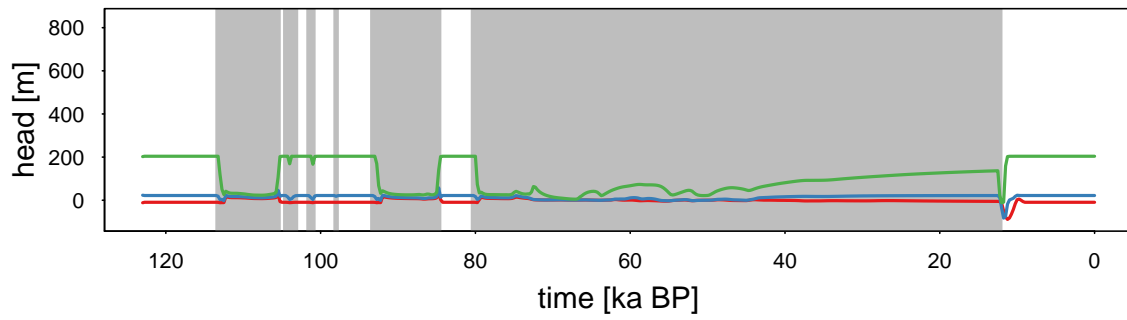
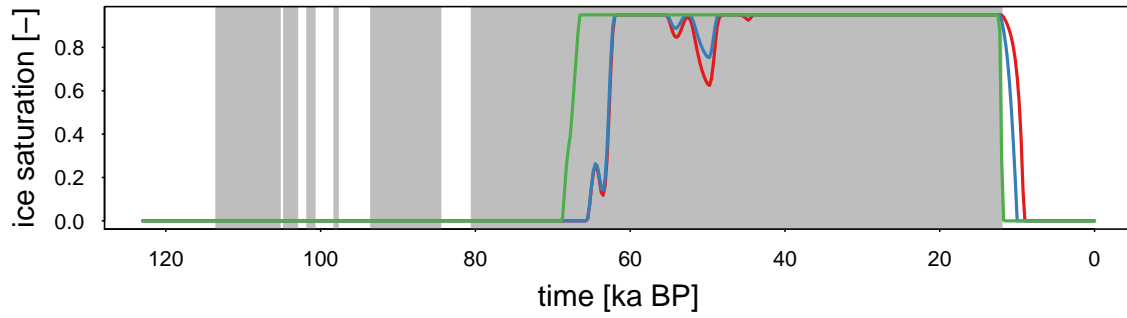
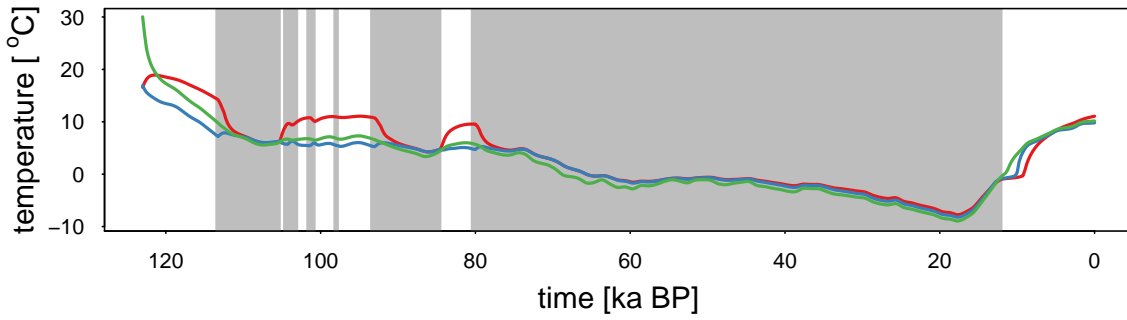
location [km]
— 7 — 9 — 13

depth= 100 m

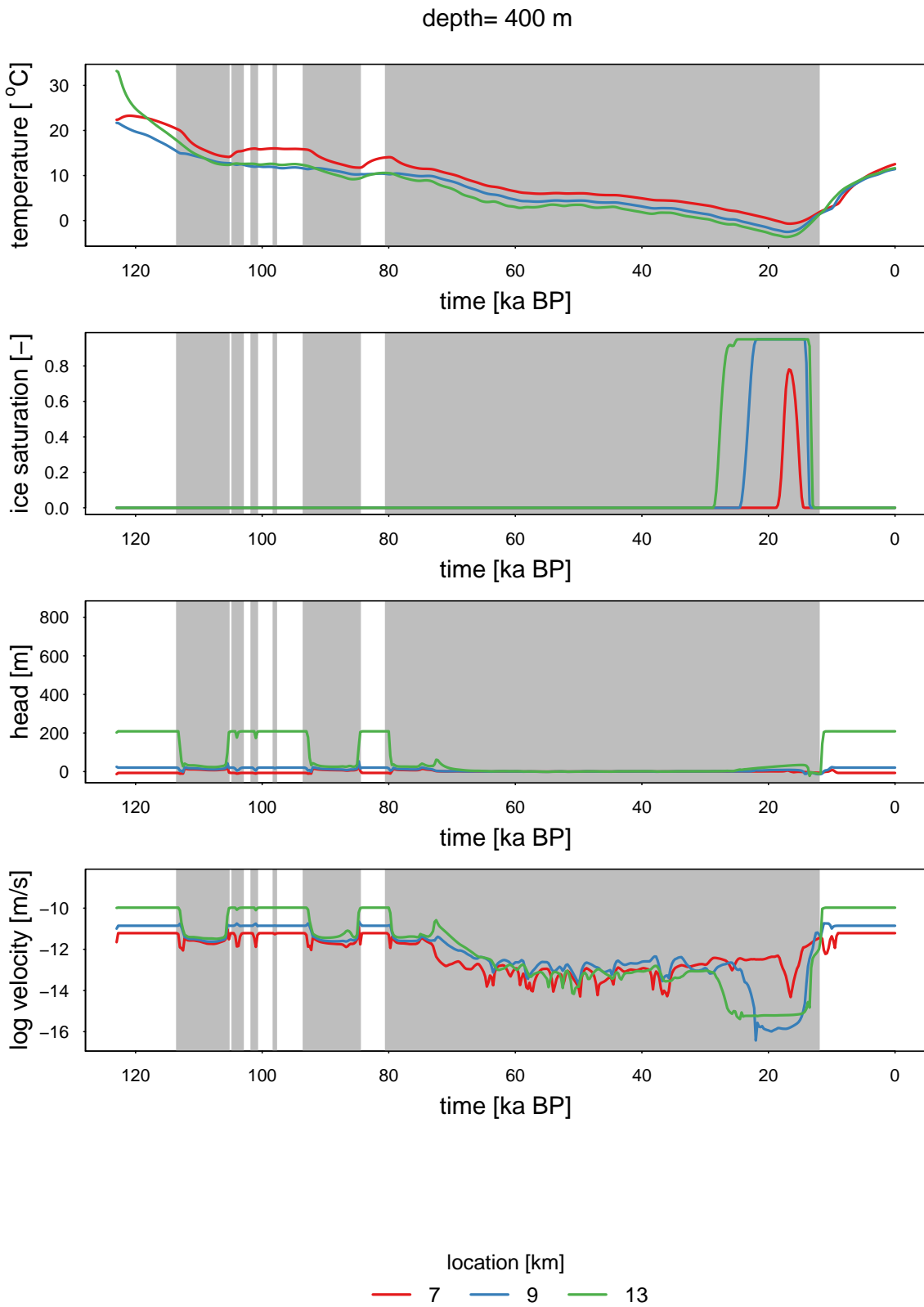


location [km]
— 7 — 9 — 13

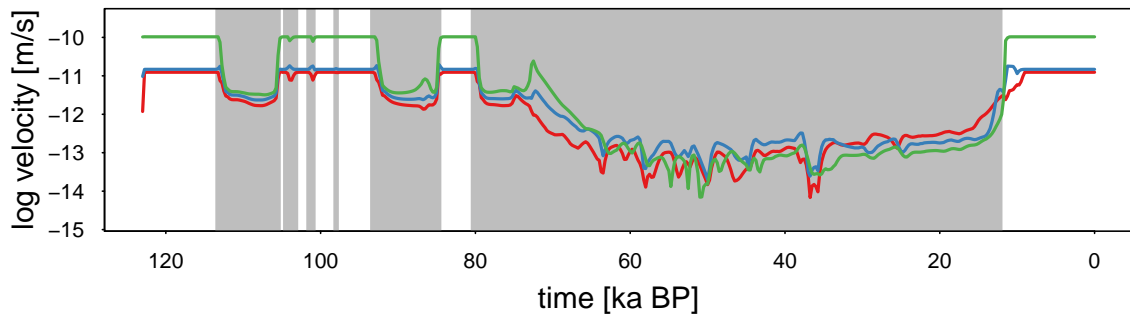
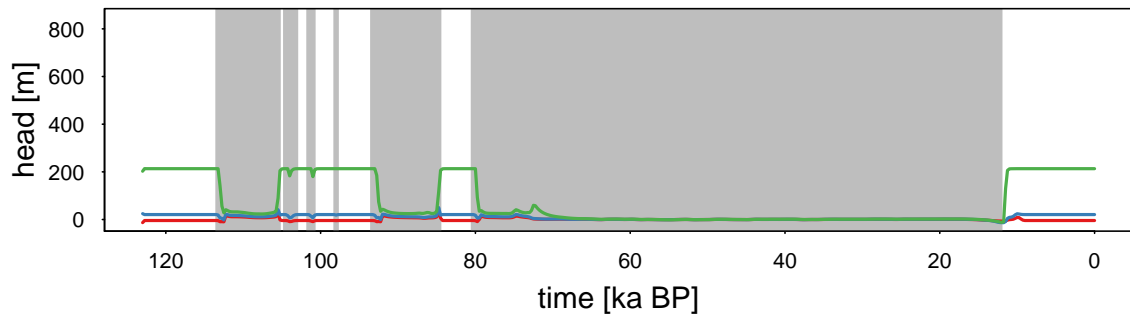
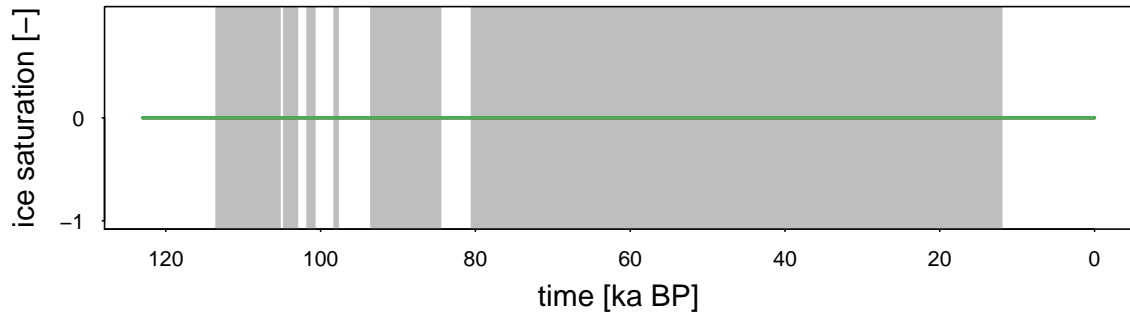
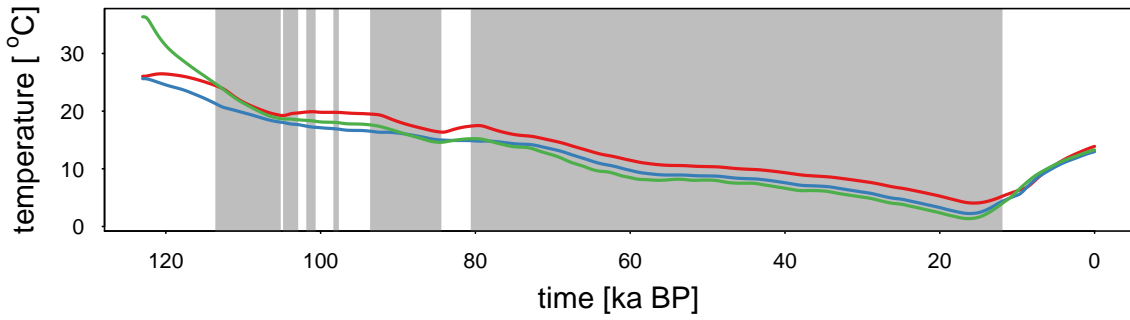
depth= 200 m



location [km]
— 7 — 9 — 13

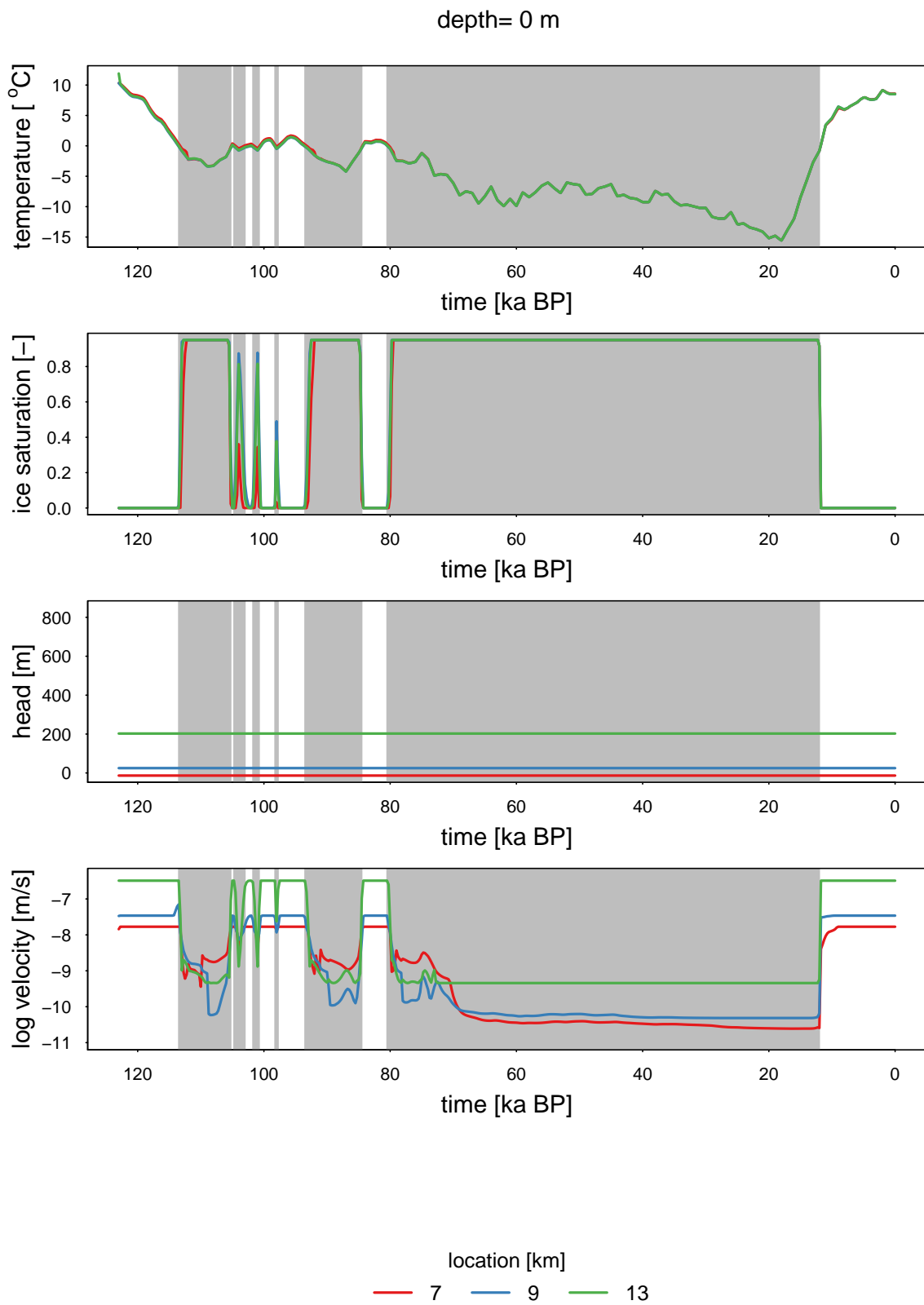


depth= 600 m

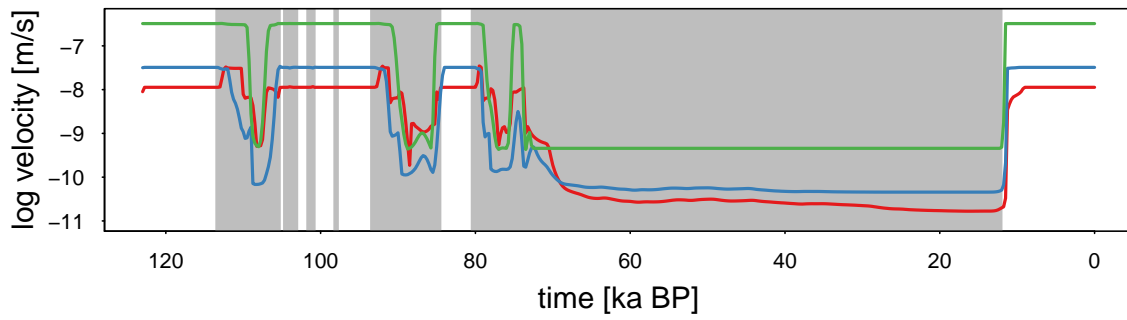
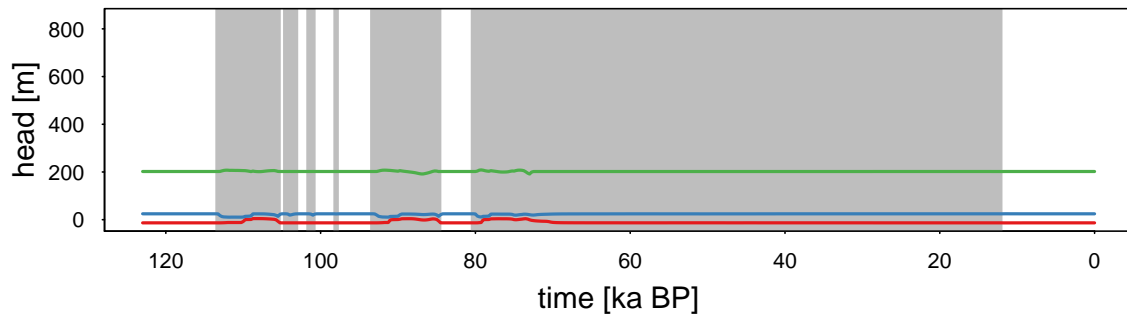
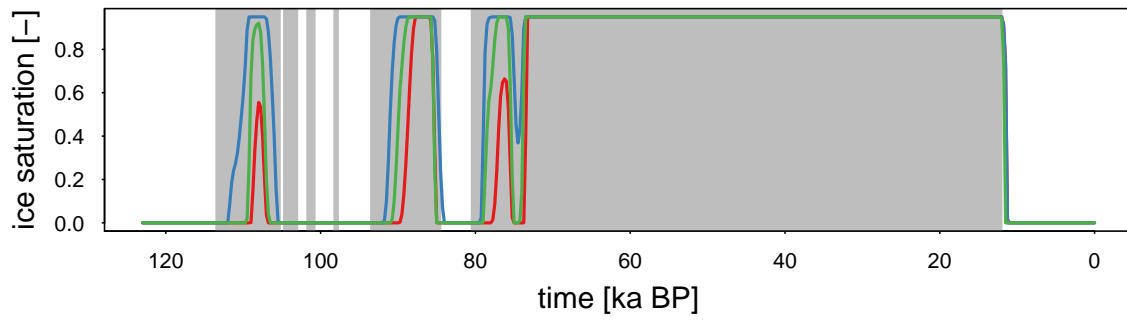
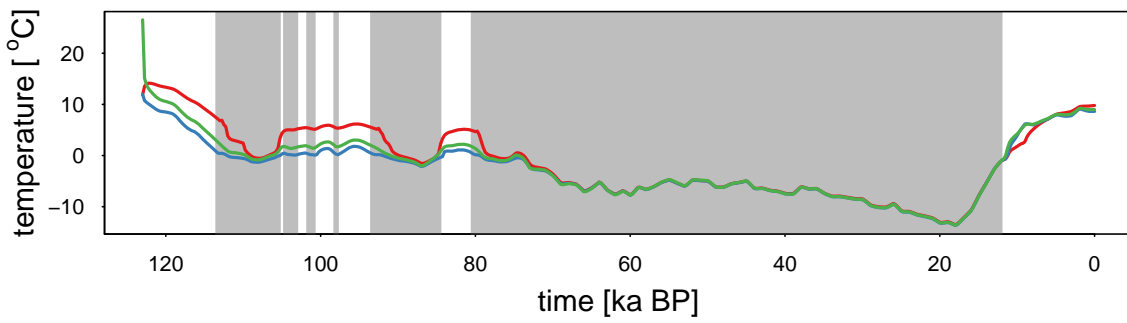


location [km]
— 7 — 9 — 13

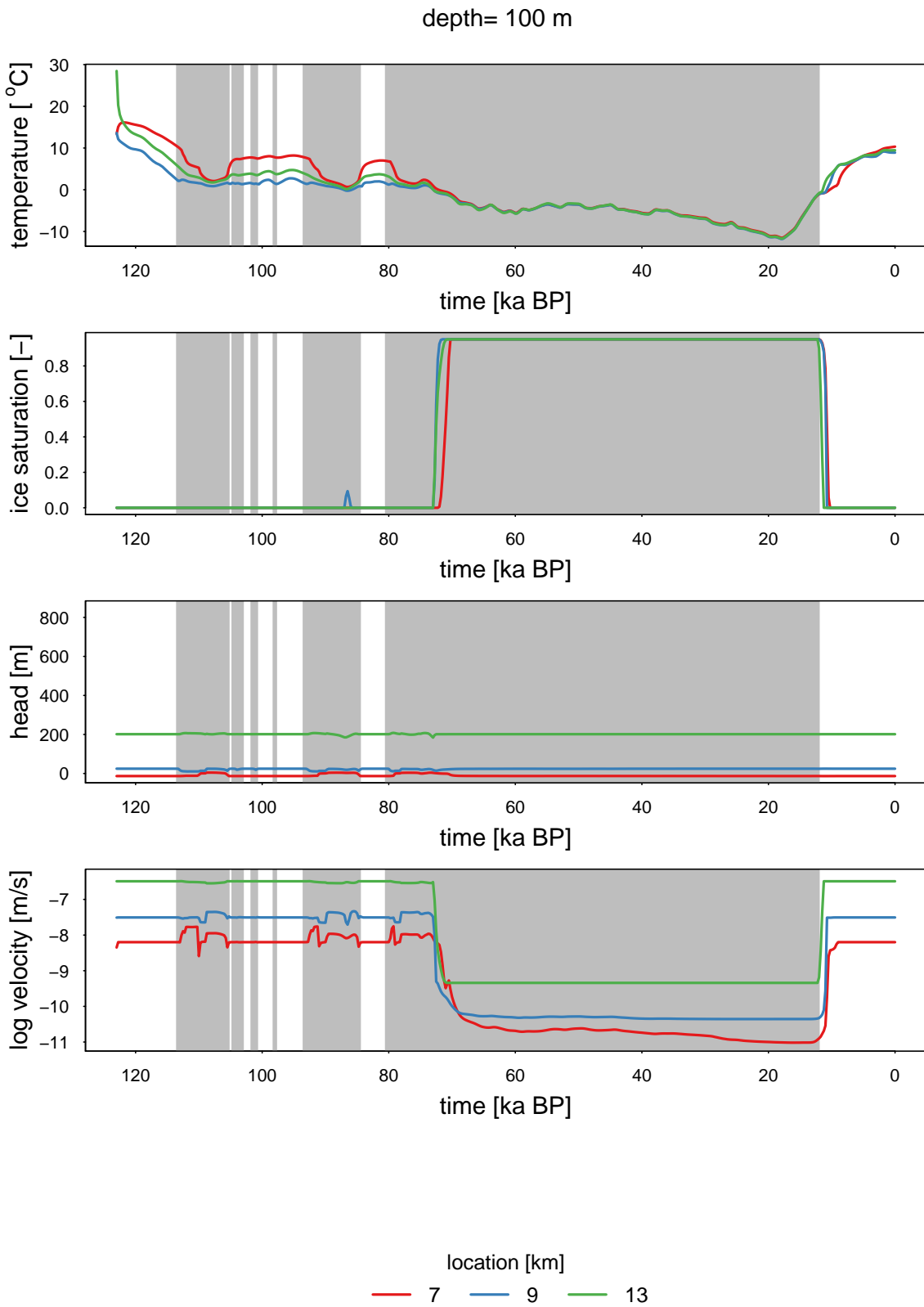
1.1.9 Run T-25_Max_Omega3



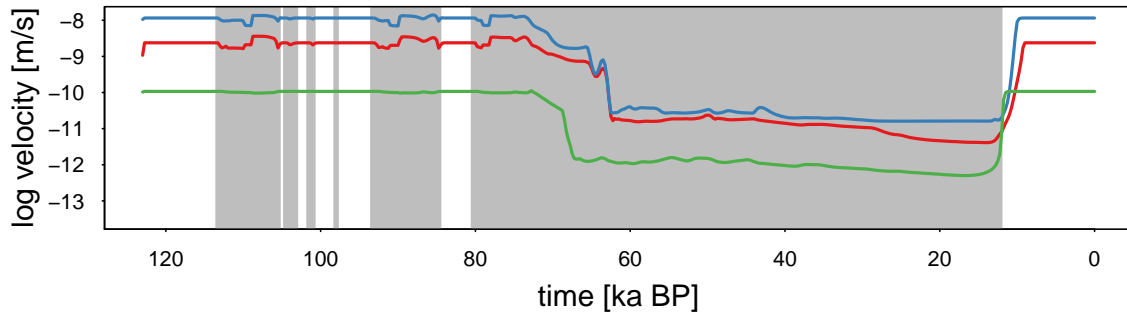
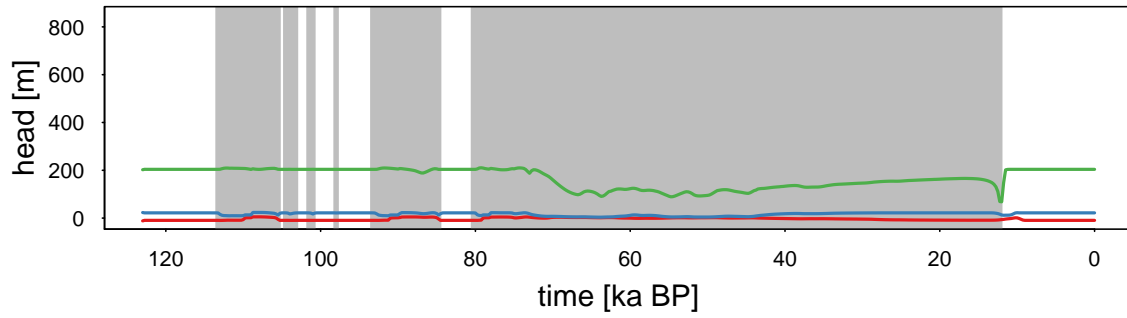
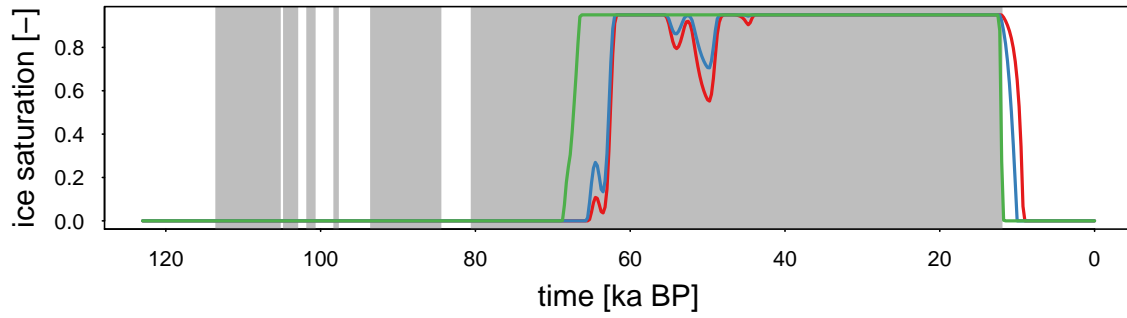
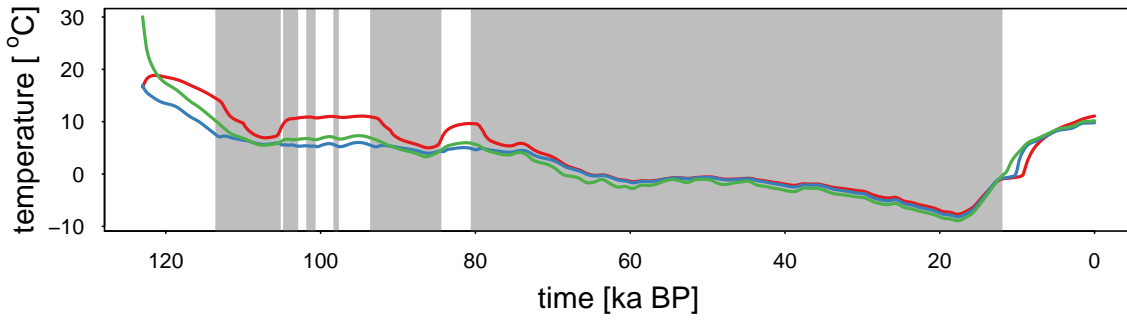
depth= 50 m



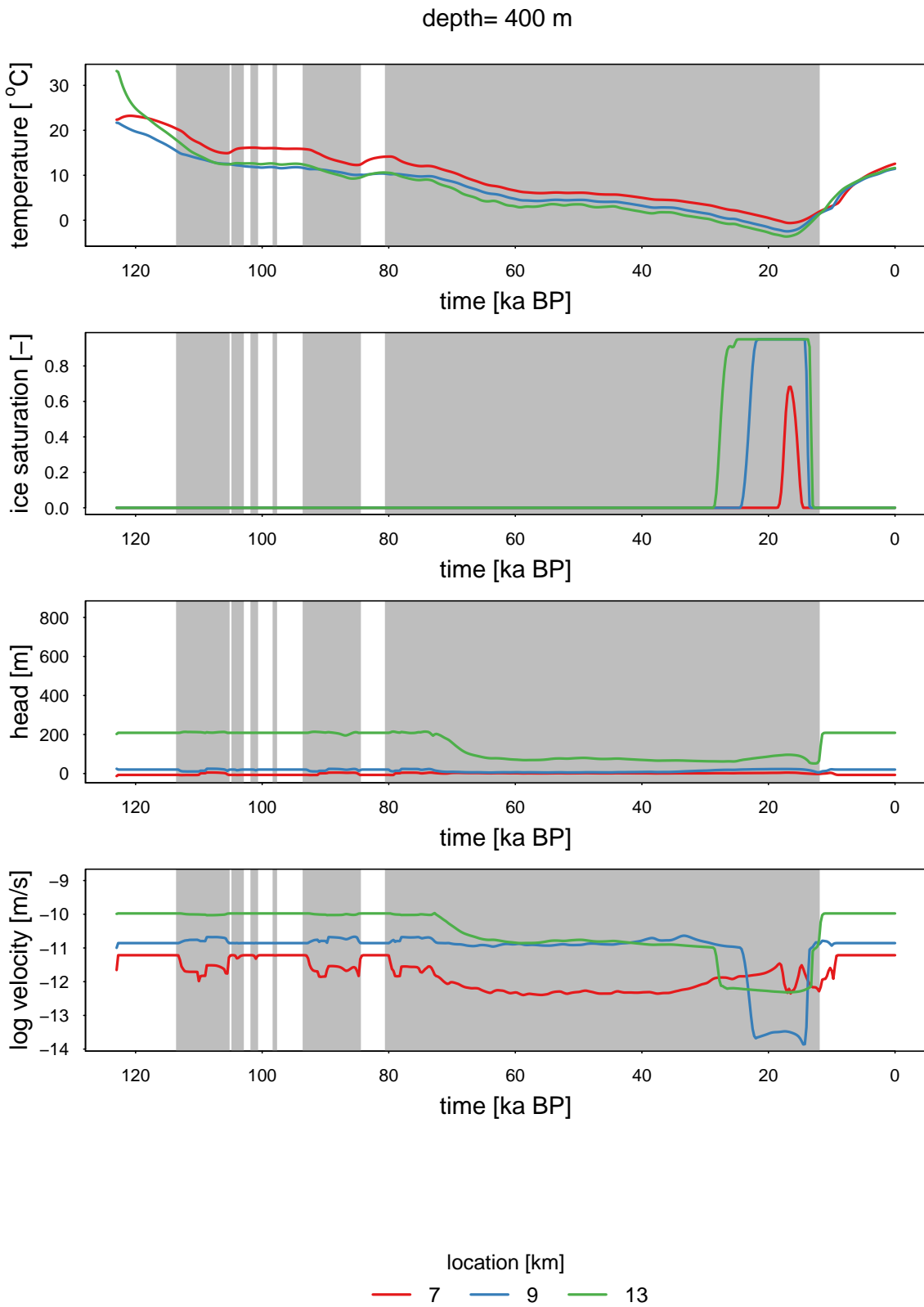
location [km]
— 7 — 9 — 13



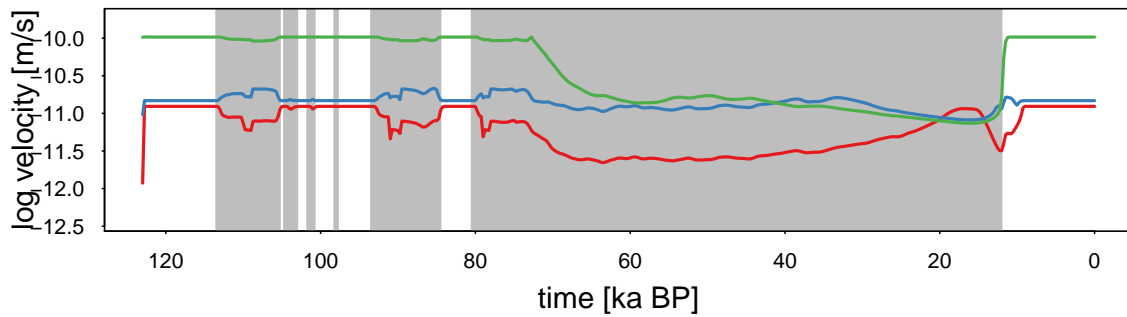
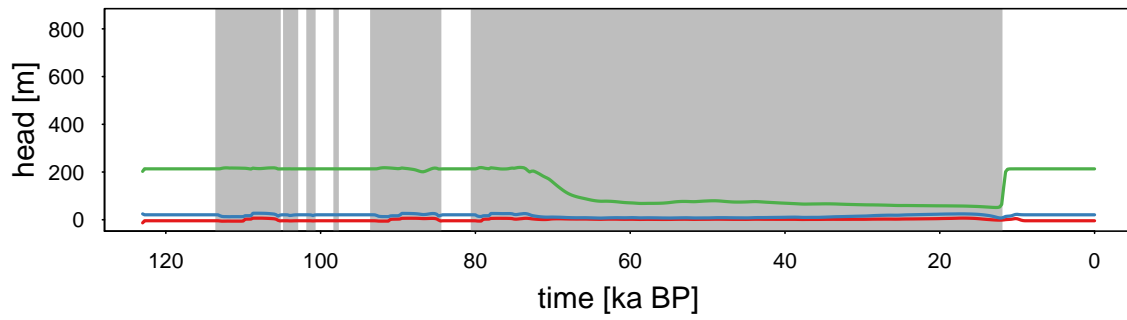
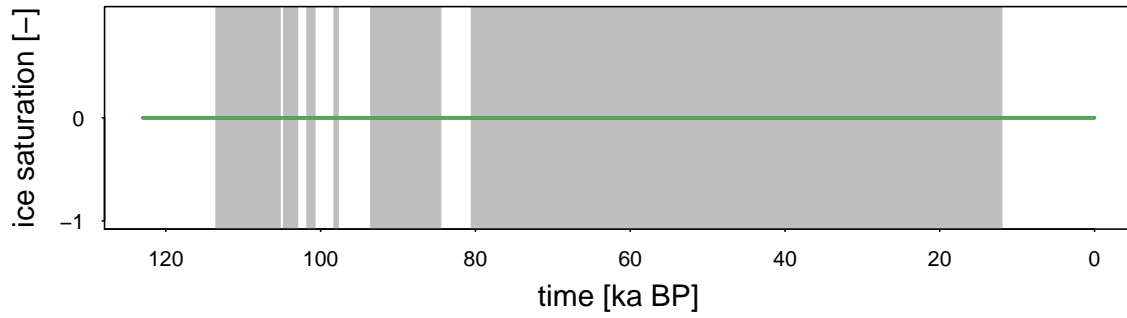
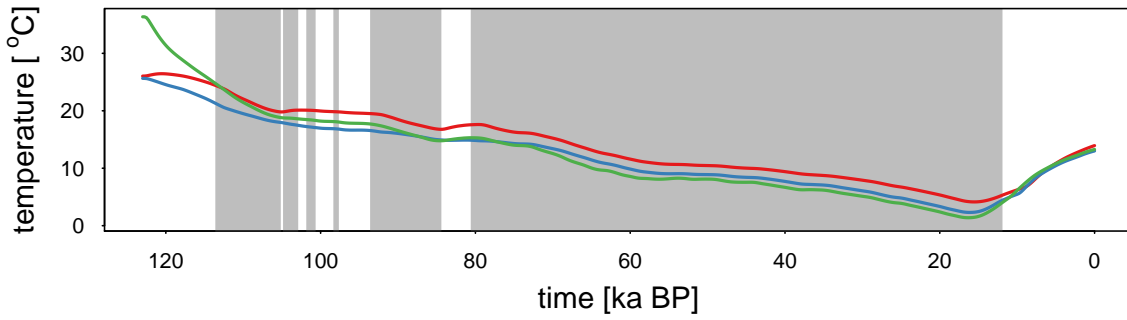
depth= 200 m



location [km]
— 7 — 9 — 13

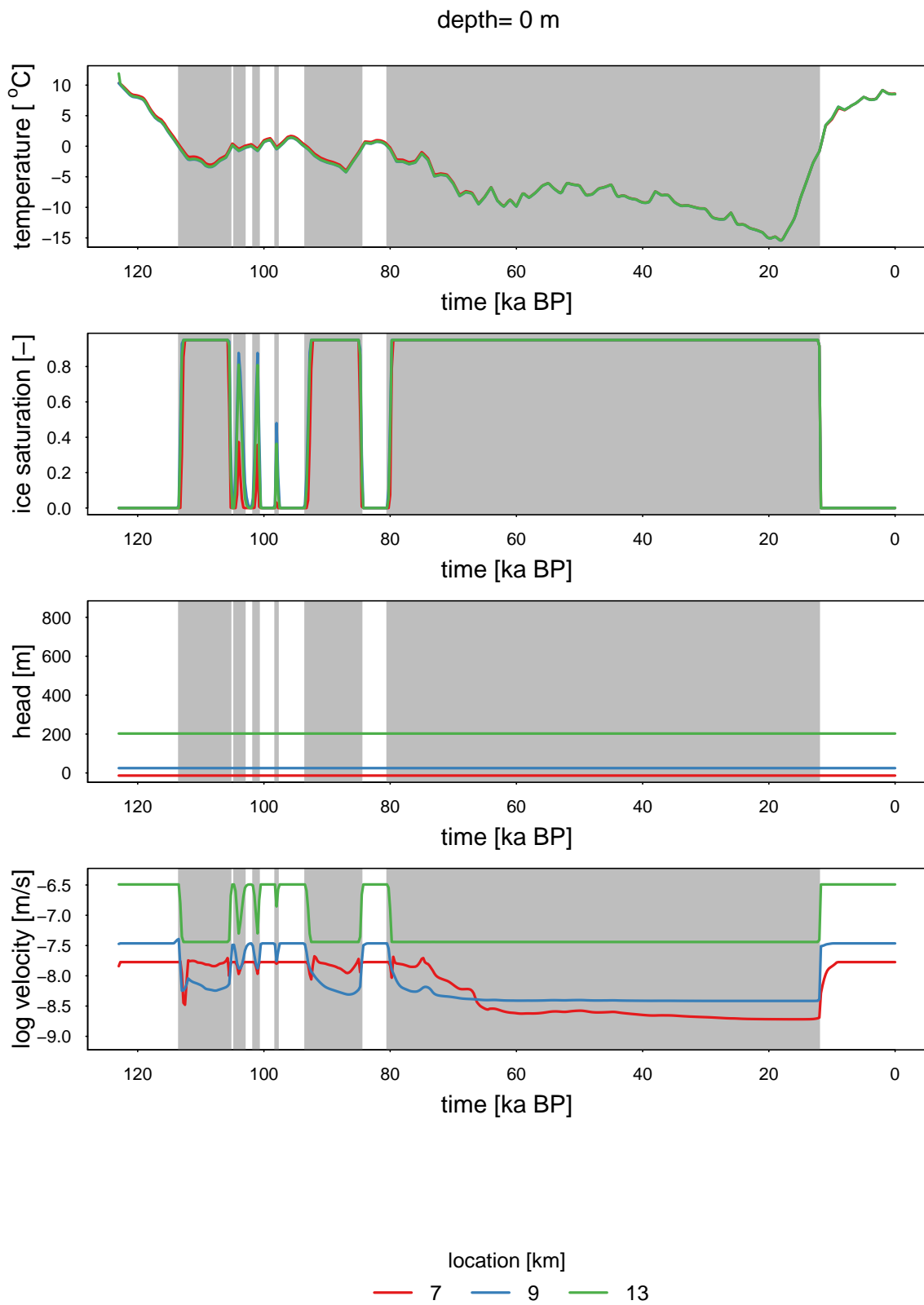


depth= 600 m

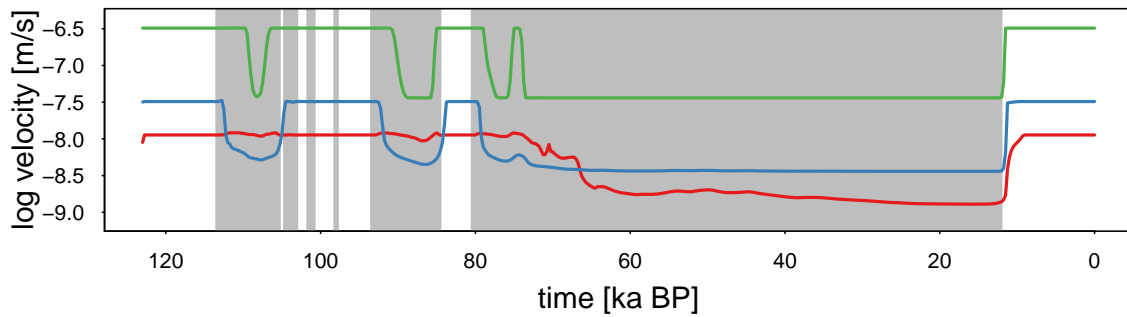
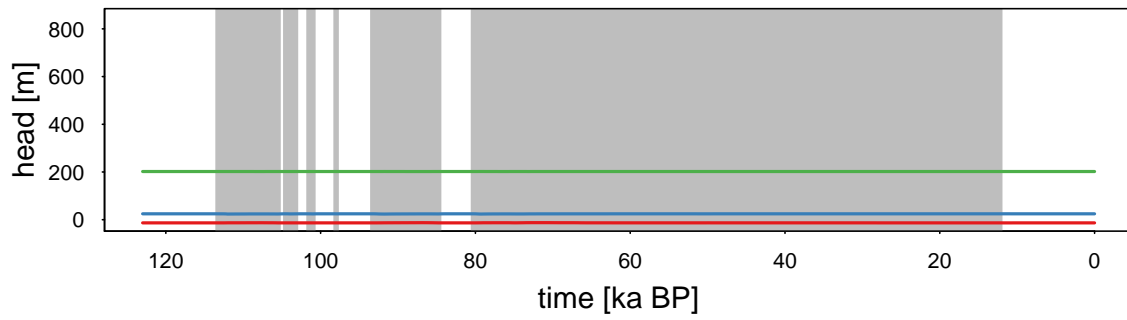
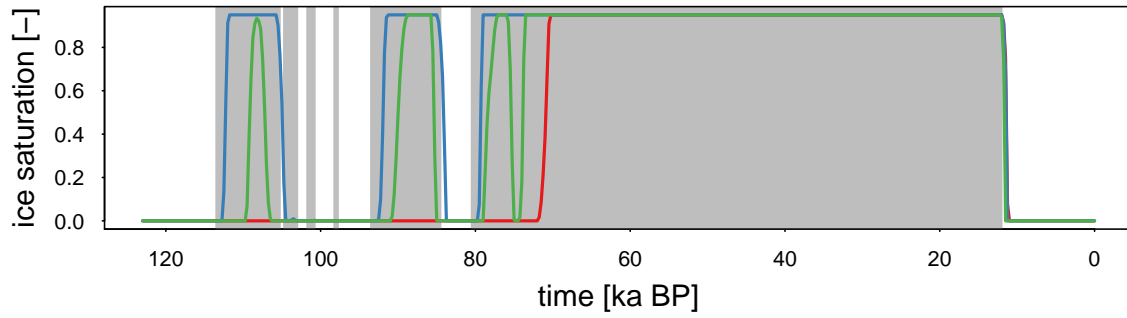
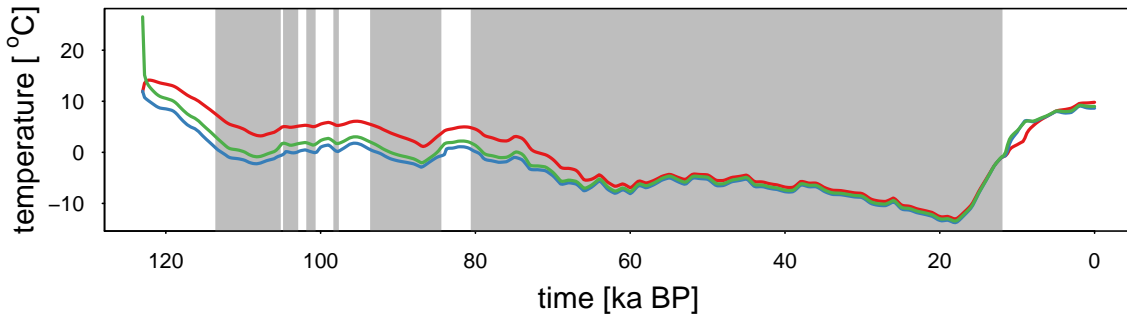


location [km]
— 7 — 9 — 13

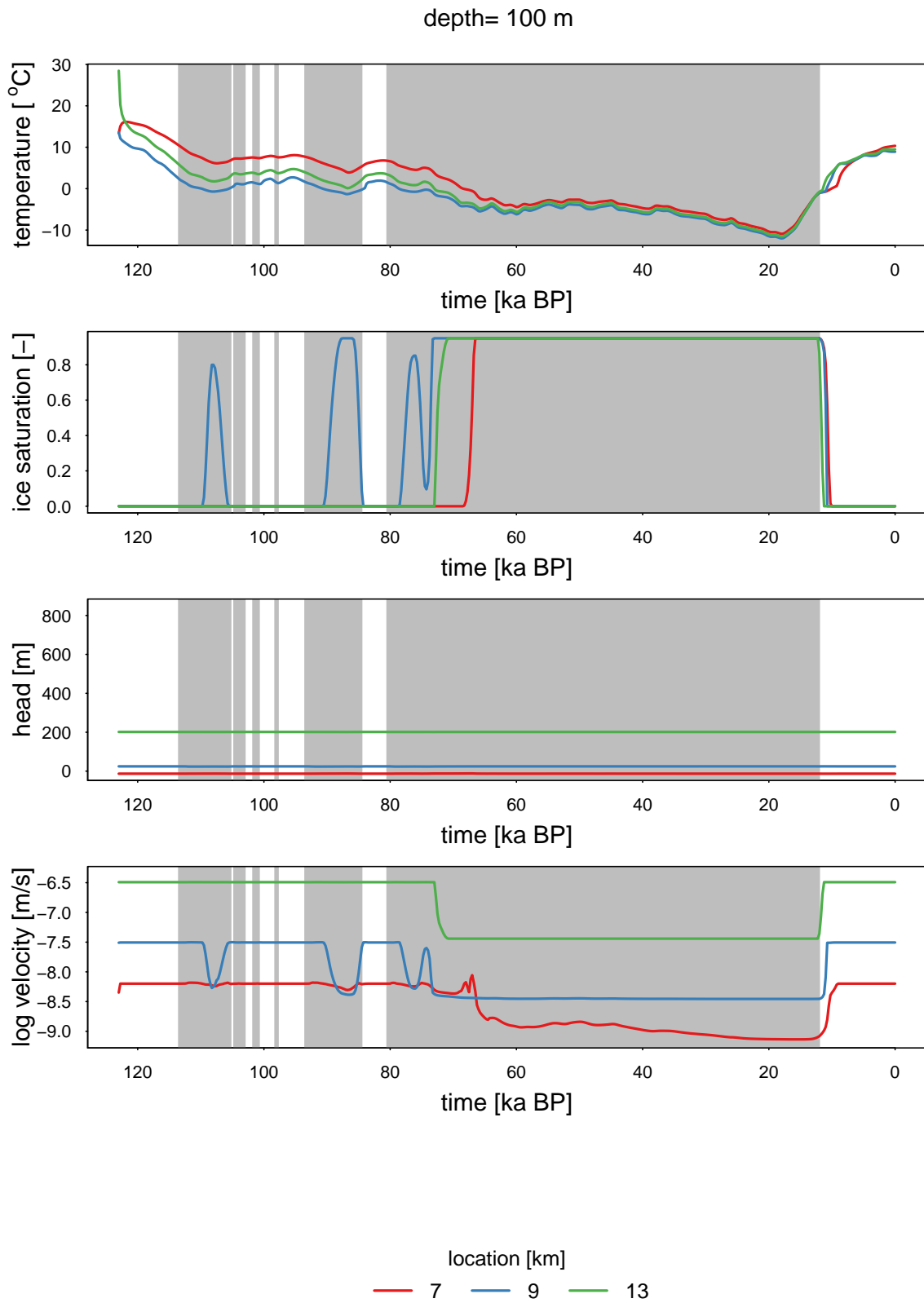
1.1.10 Run T-25_Max_Omega1



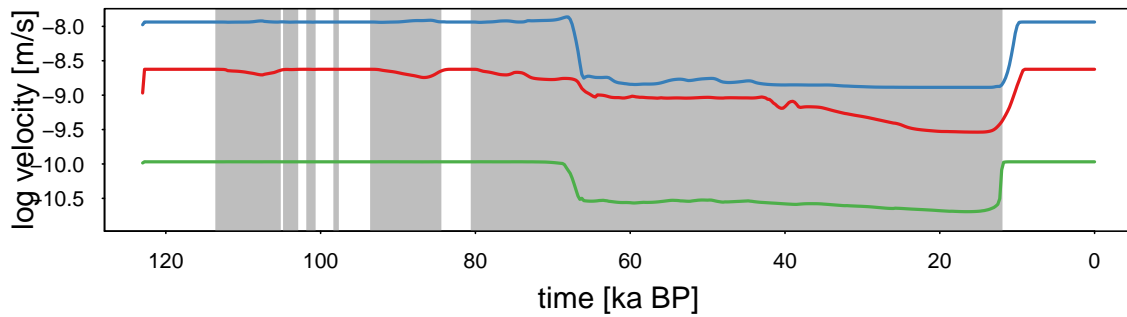
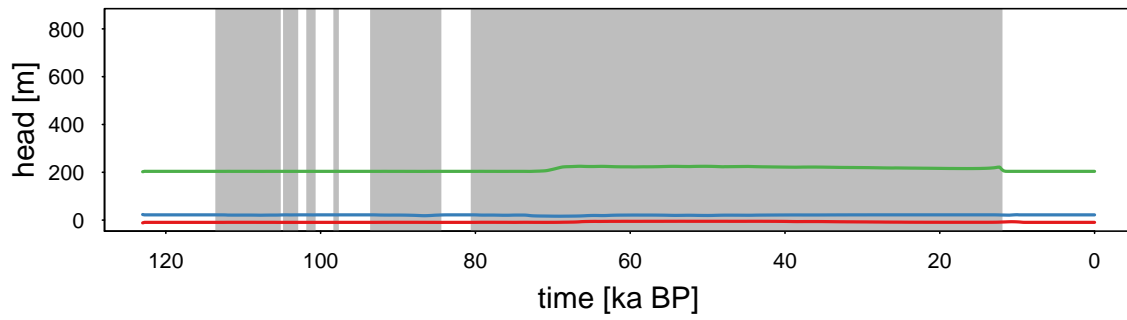
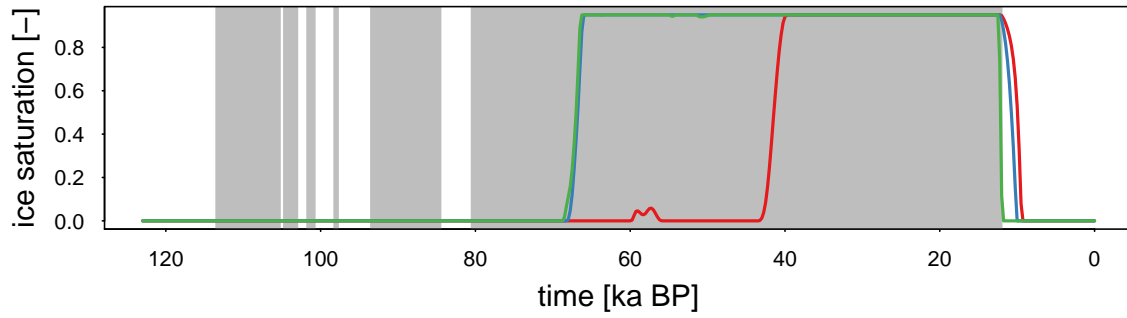
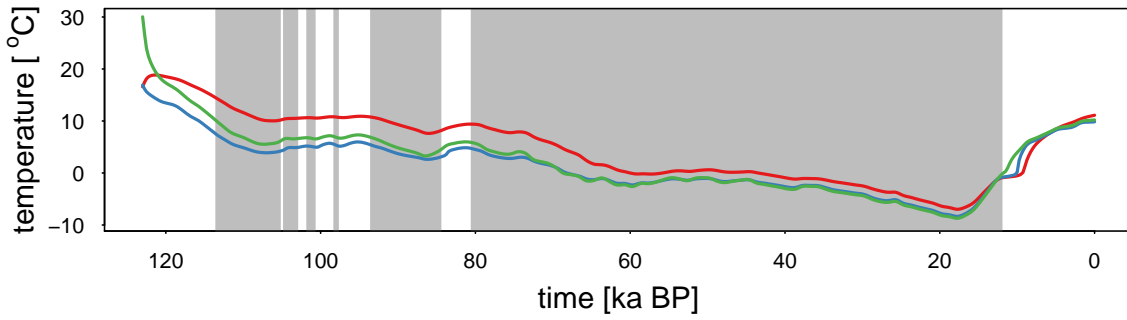
depth= 50 m



location [km]
— 7 — 9 — 13

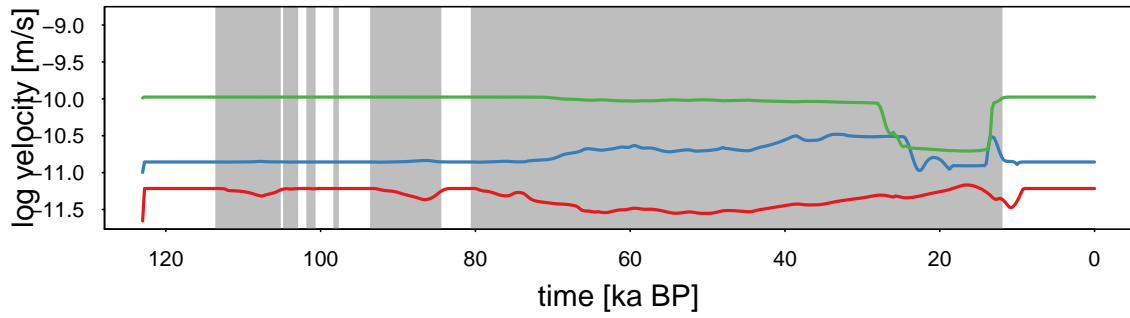
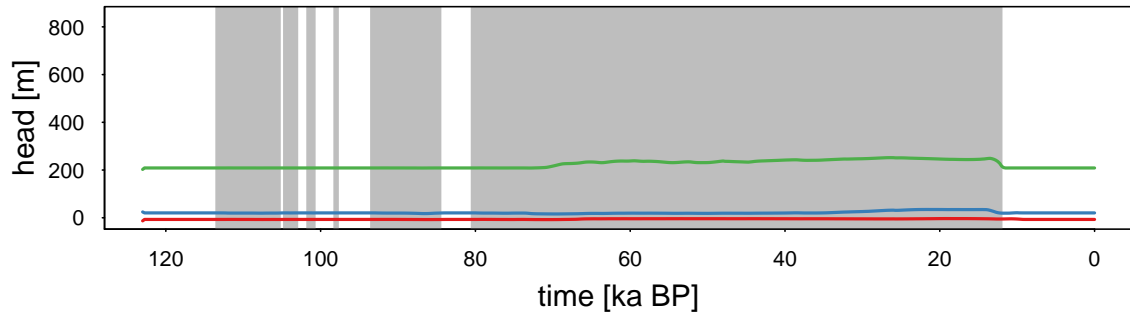
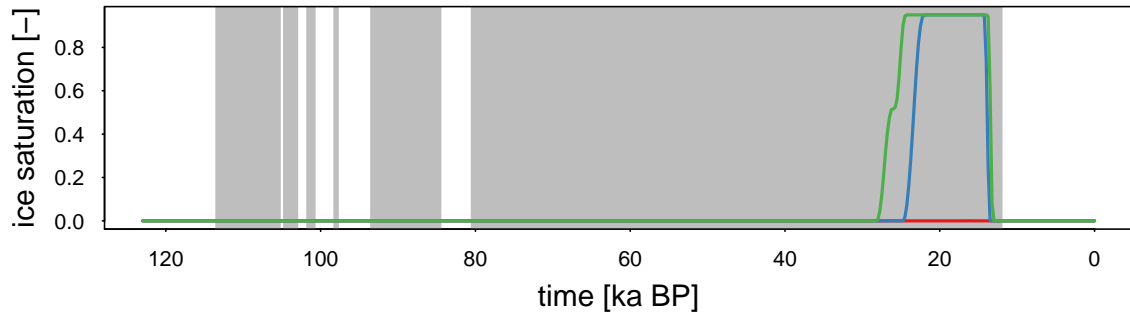
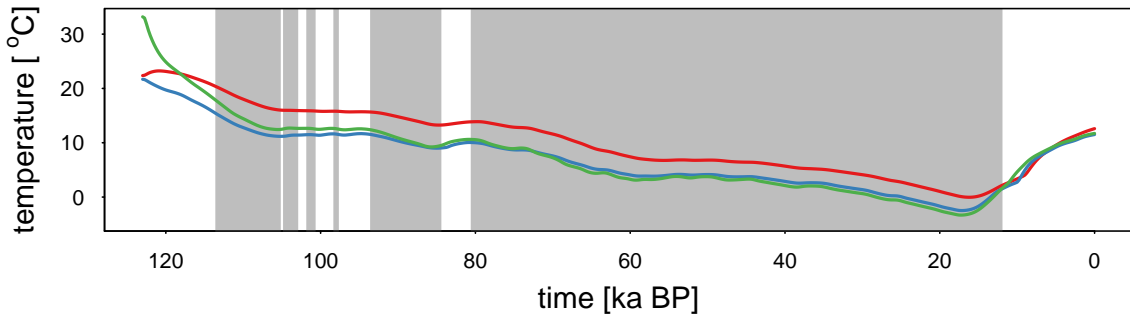


depth= 200 m



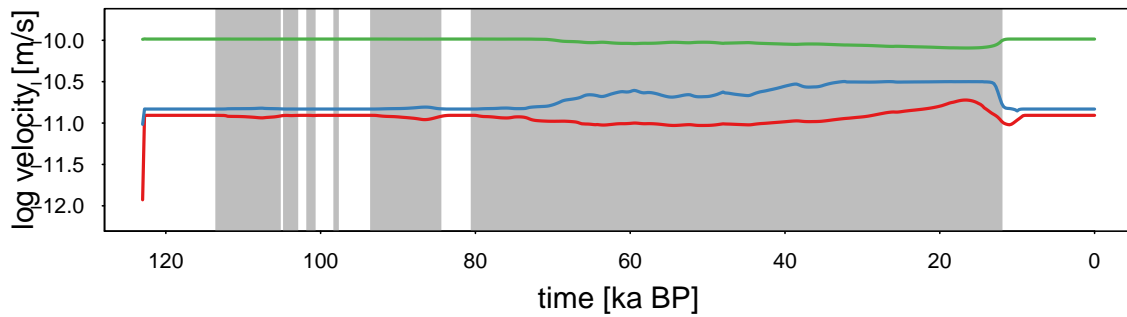
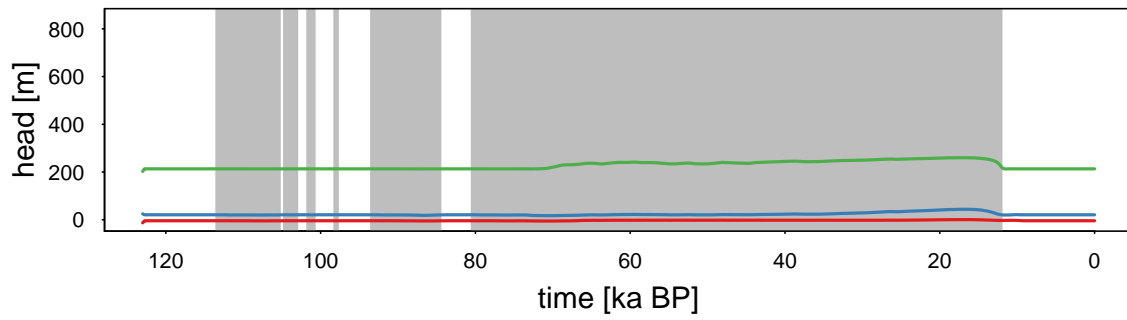
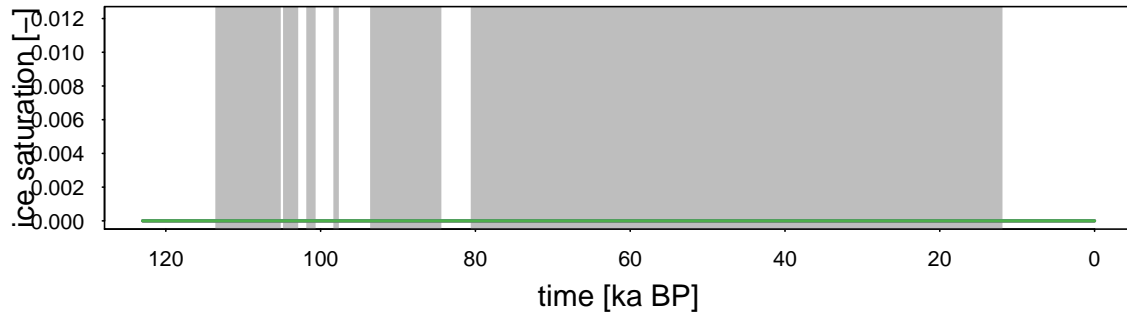
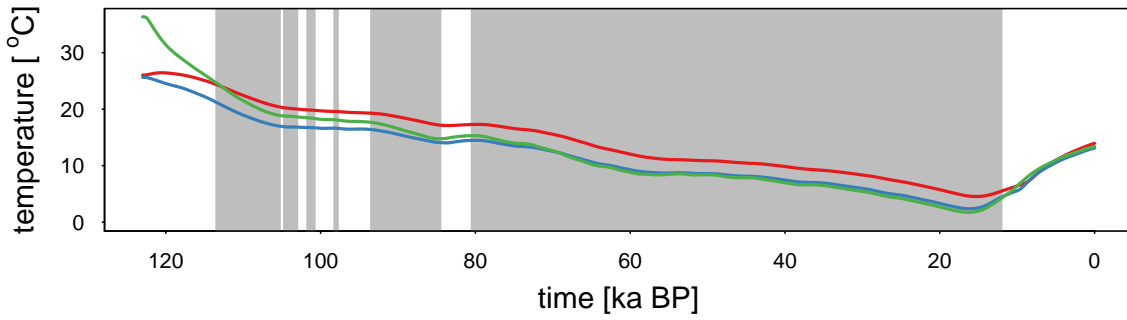
location [km]
— 7 — 9 — 13

depth= 400 m

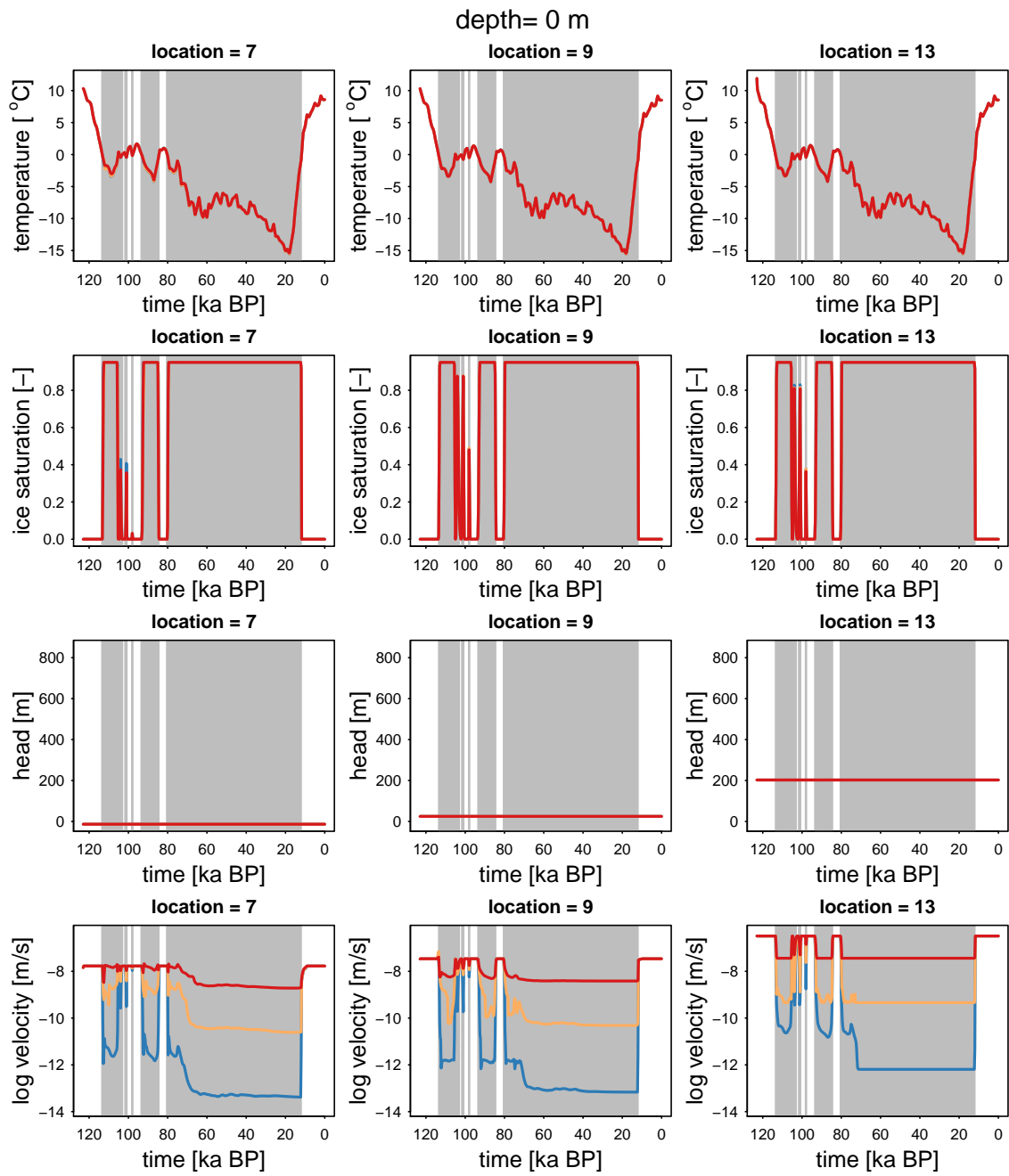


location [km]
— 7 — 9 — 13

depth= 600 m

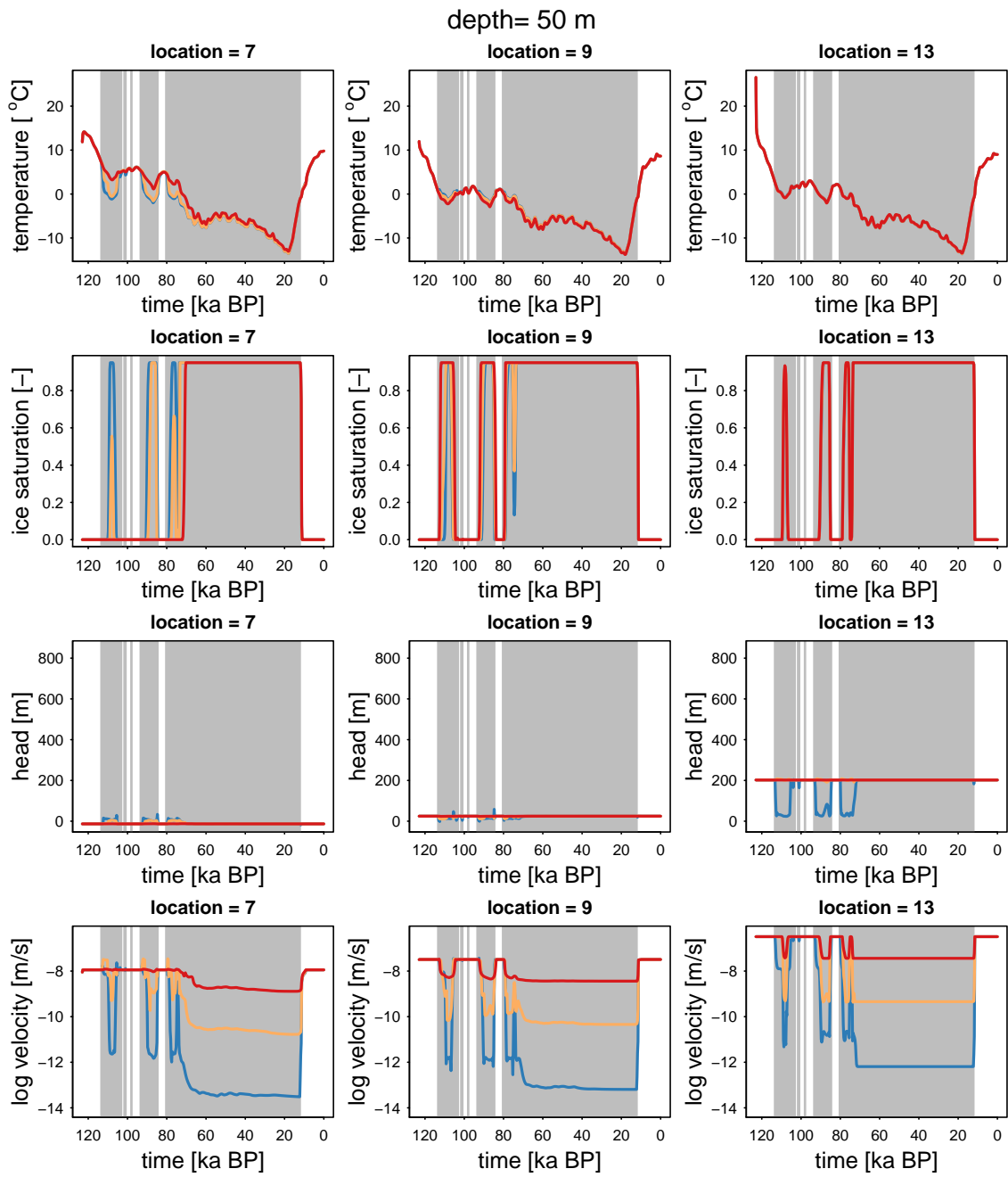


location [km]
— 7 — 9 — 13



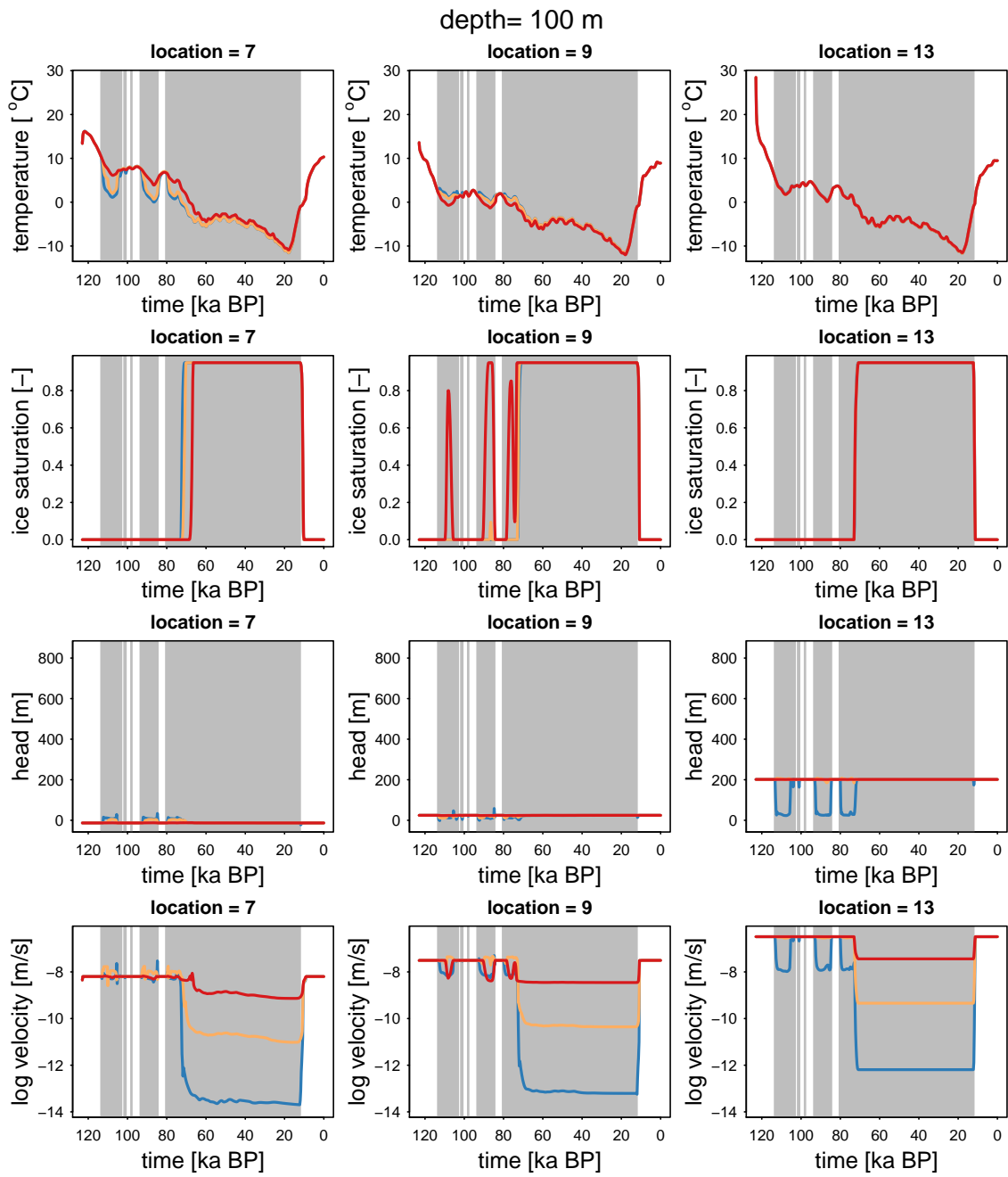
— Omega=6 — Omega=3 — Omega=1

T-25_Max_Omega Comparison



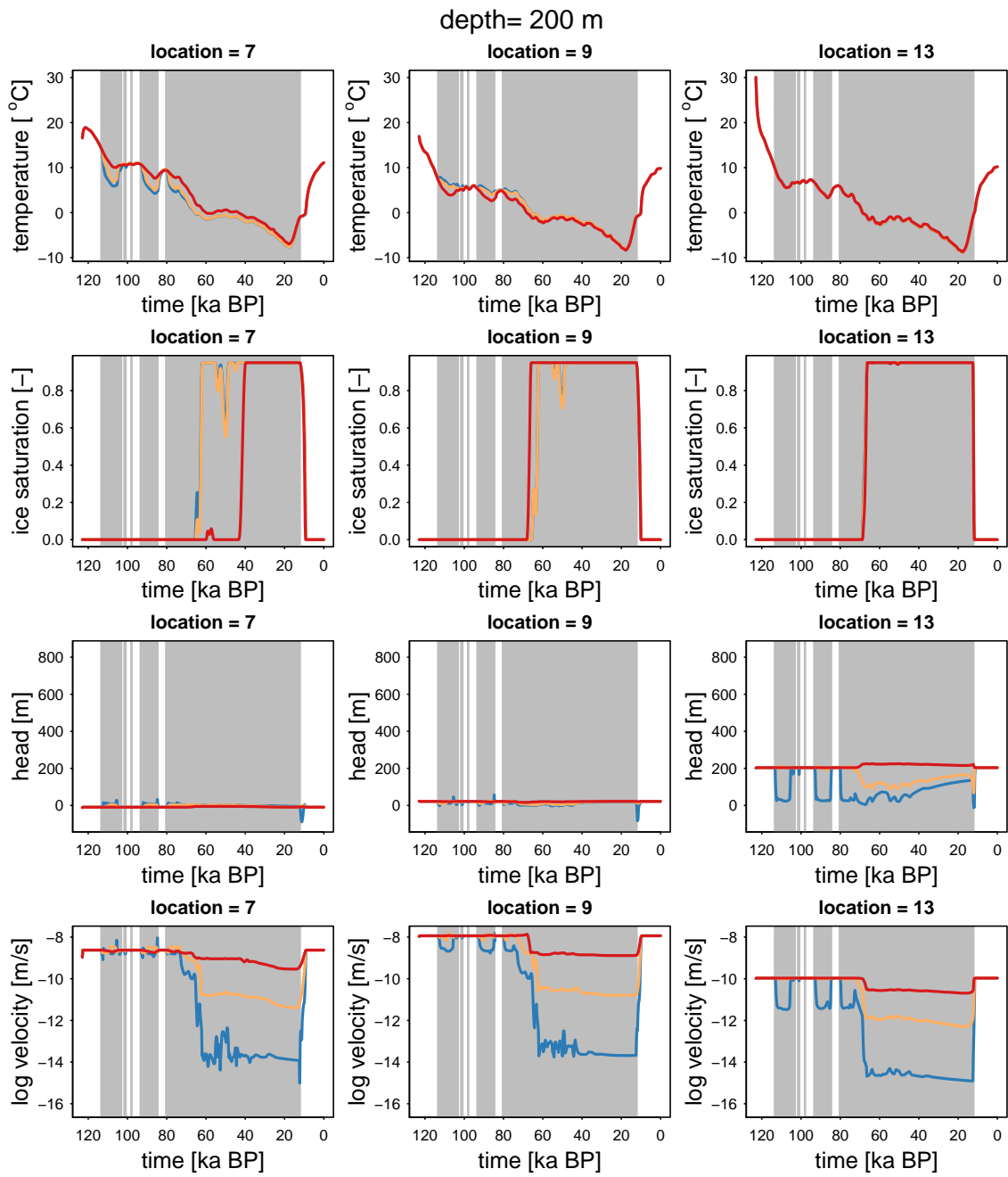
— Omega=6 — Omega=3 — Omega=1

T-25_Max_Omega Comparison

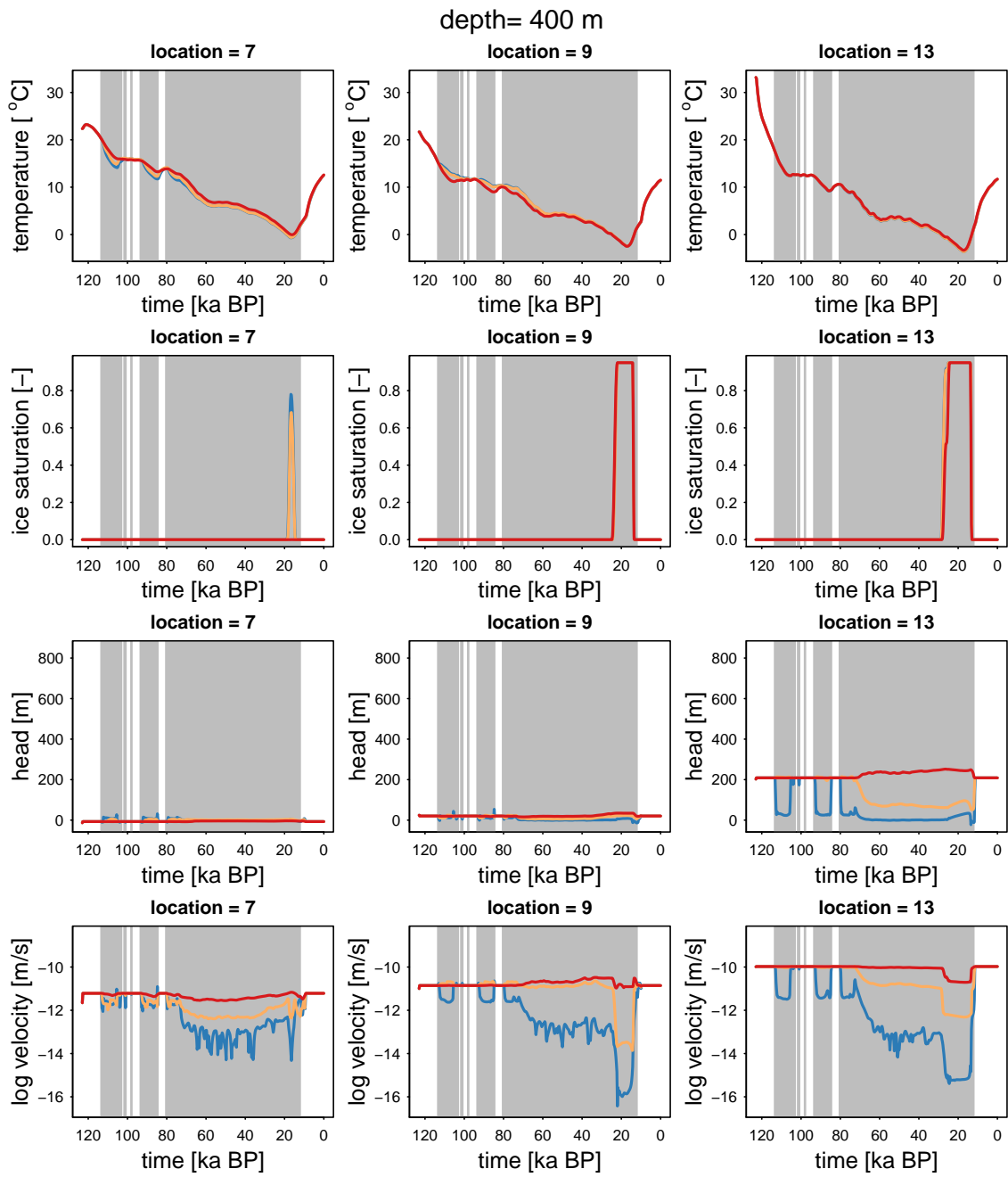


— Omega=6 — Omega=3 — Omega=1

T-25_Max_Omega Comparison

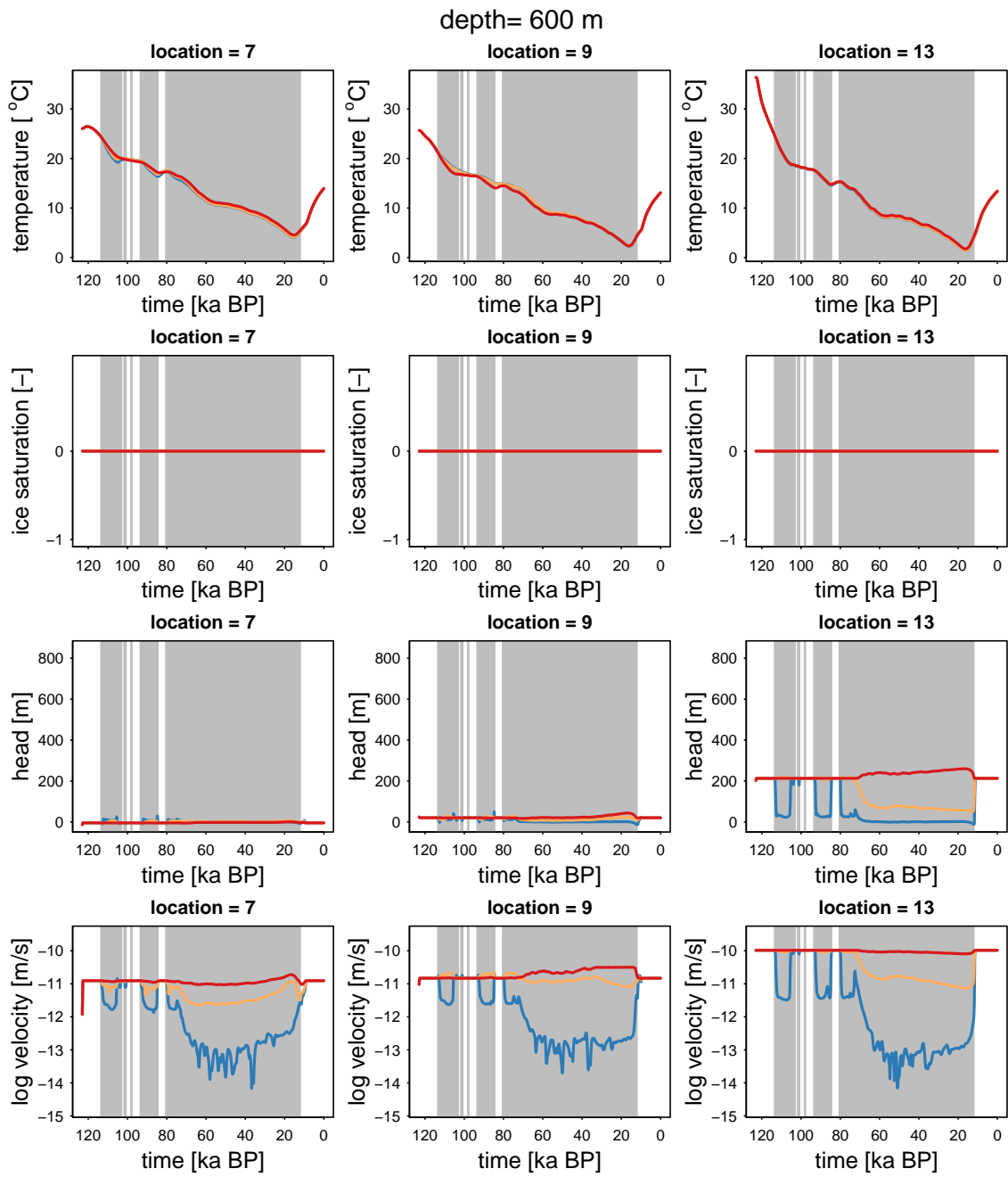


T-25_Max_Omega Comparison

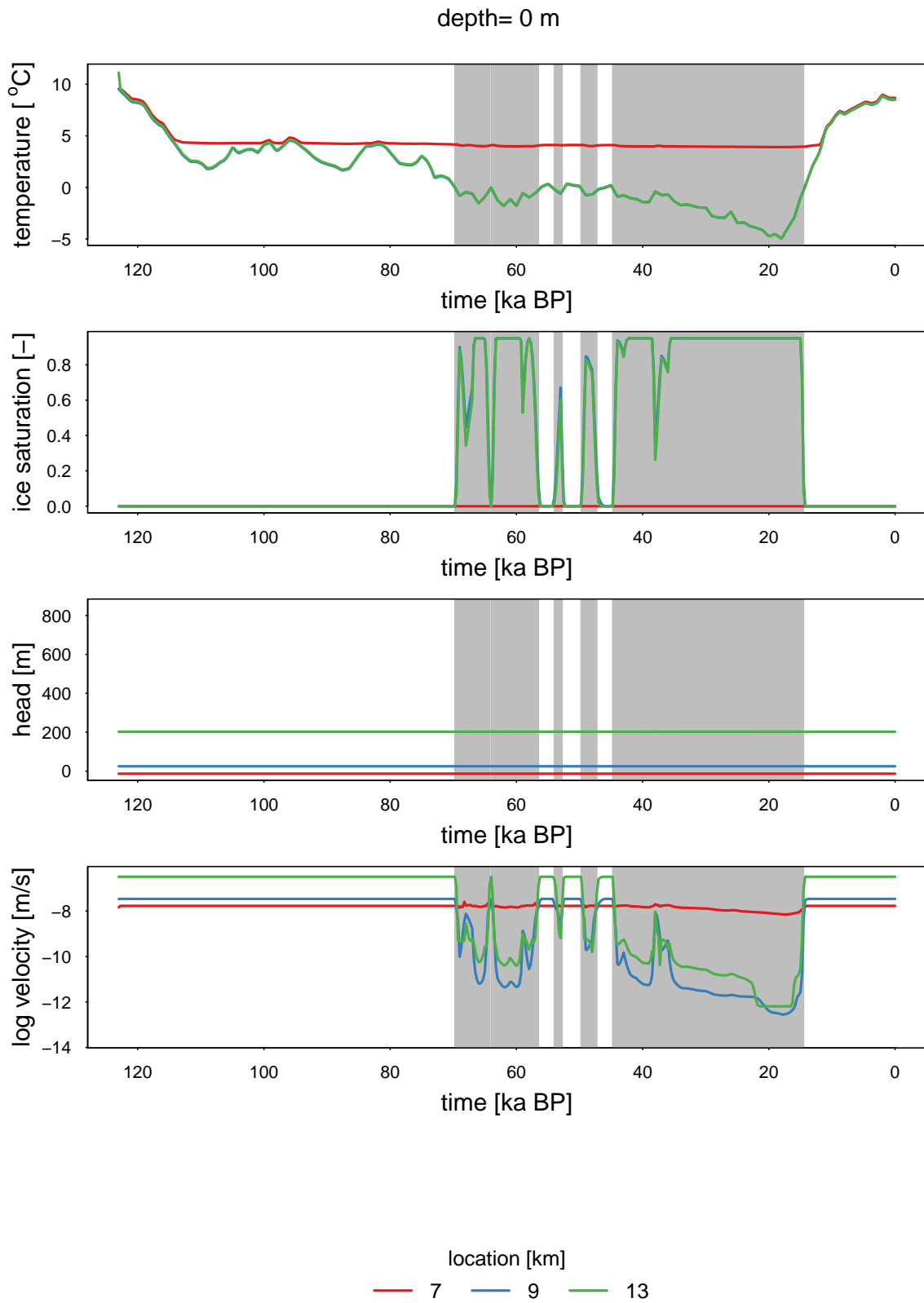


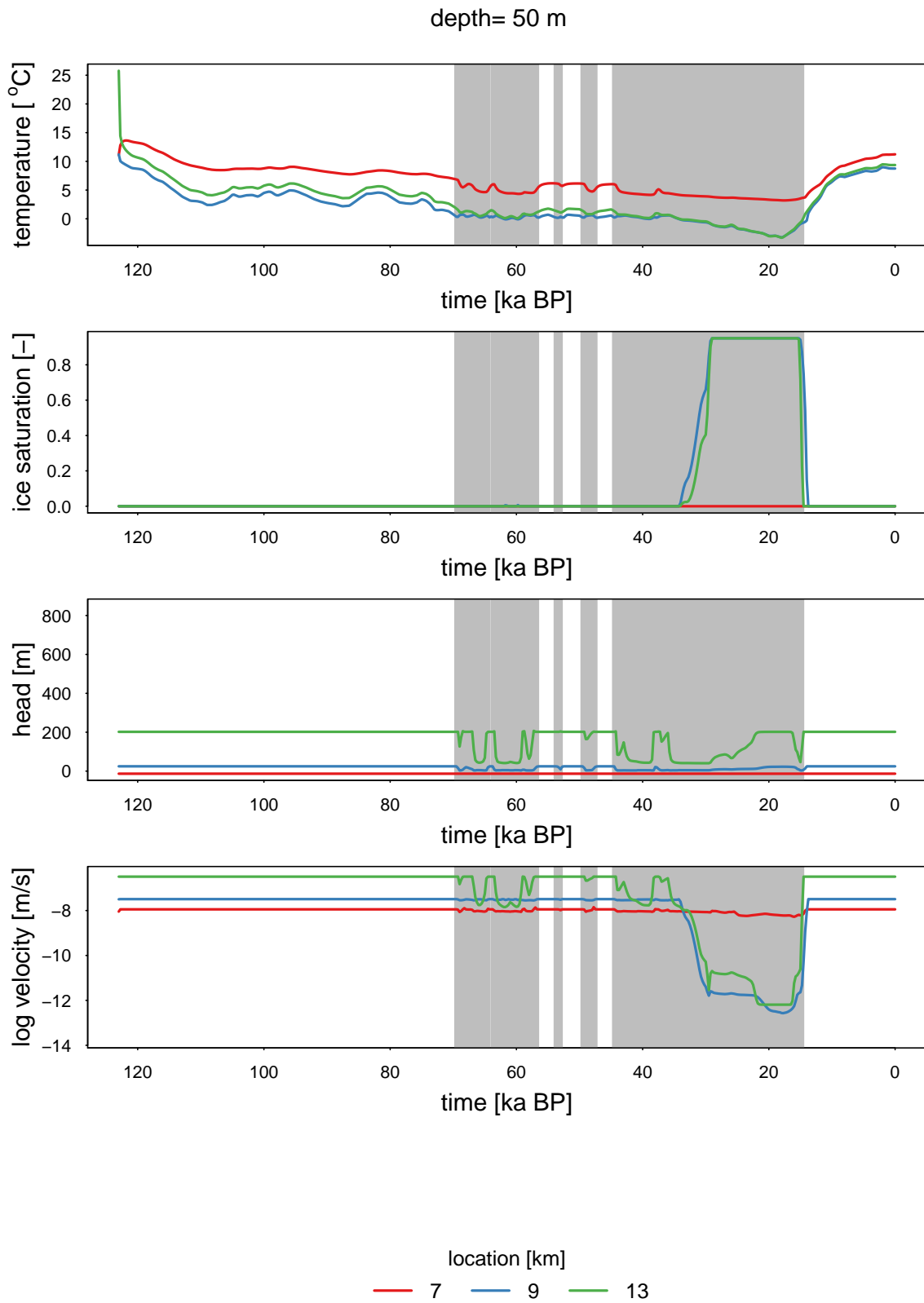
— Omega=6 — Omega=3 — Omega=1

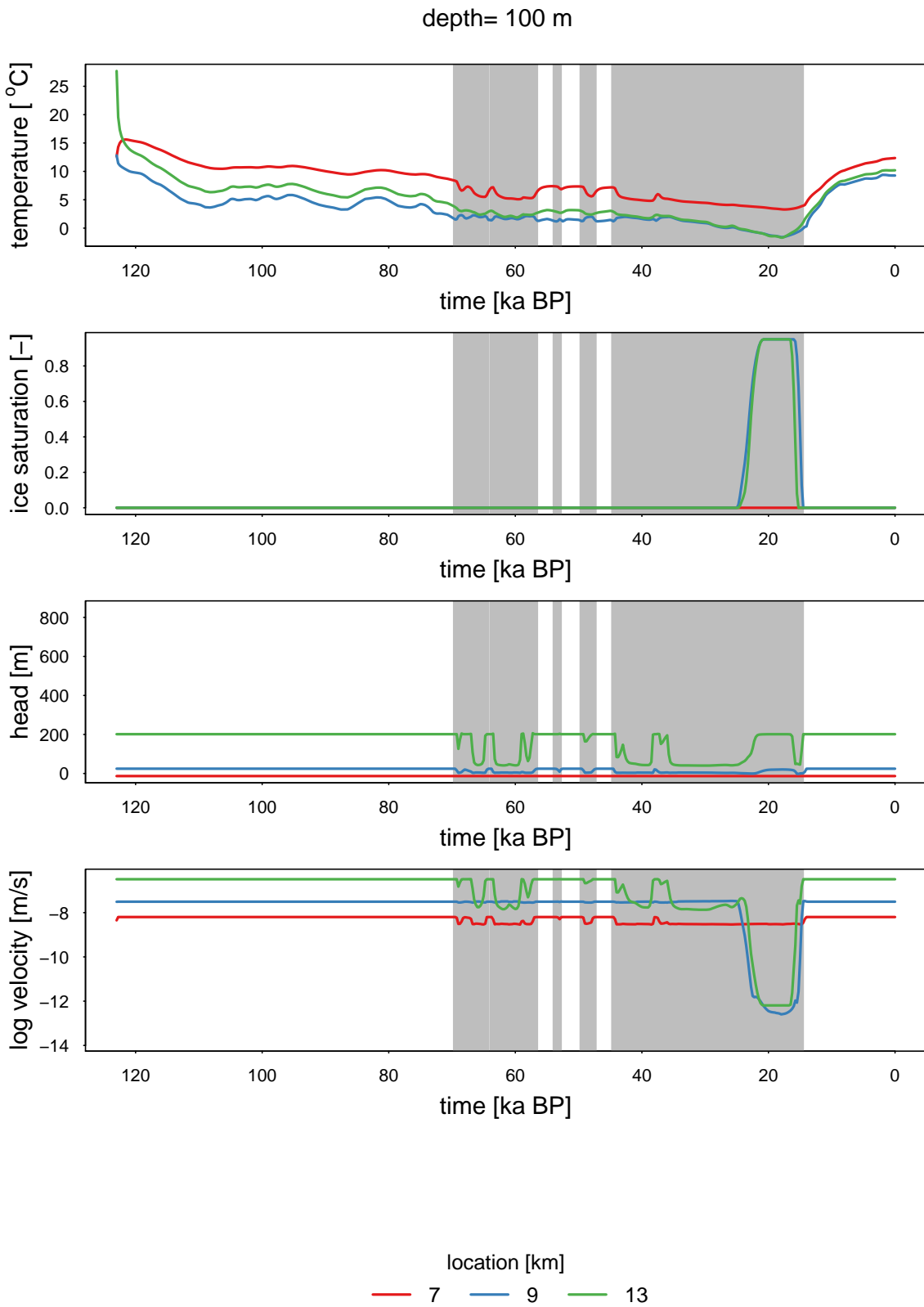
T-25_Max_Omega Comparison

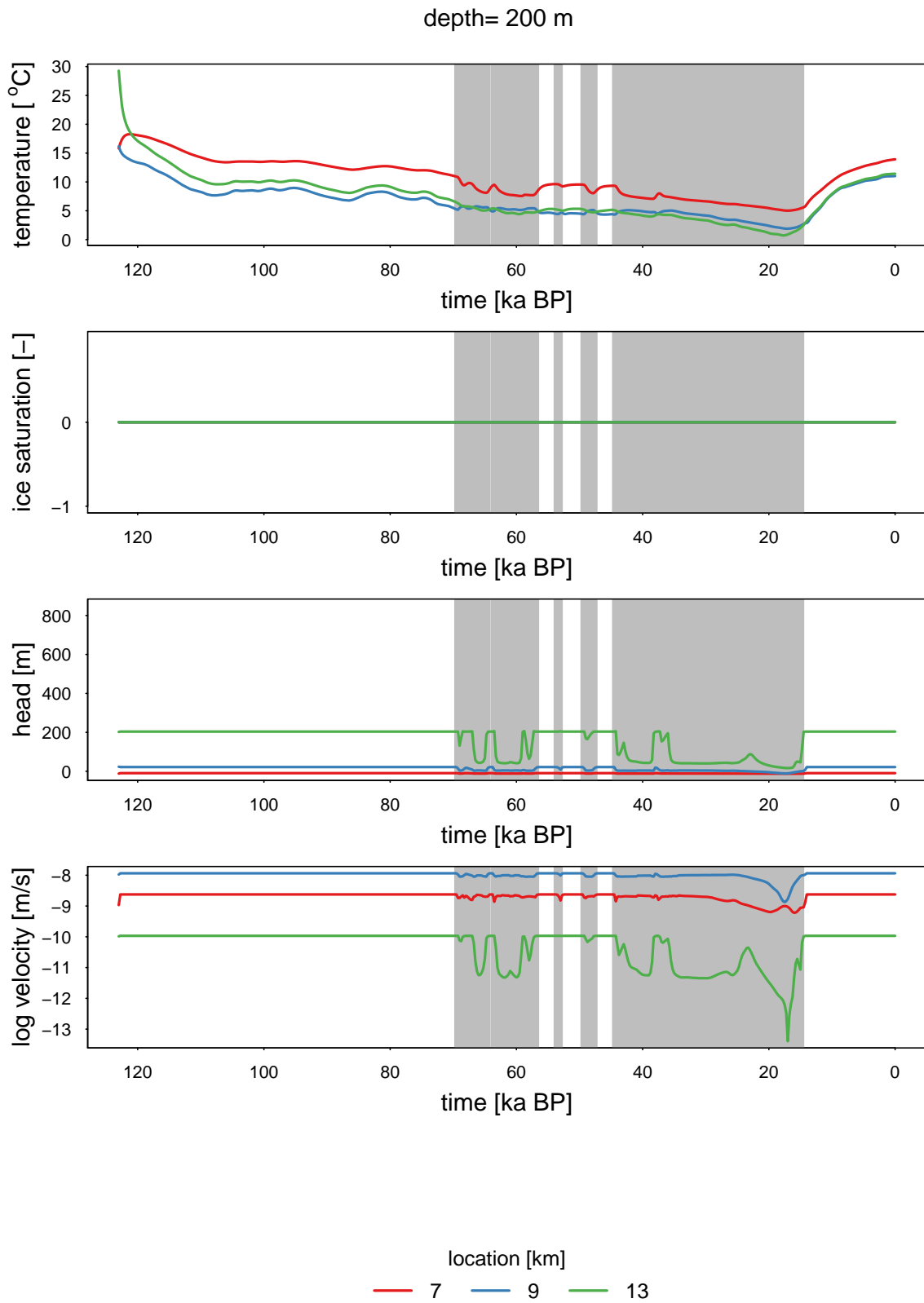


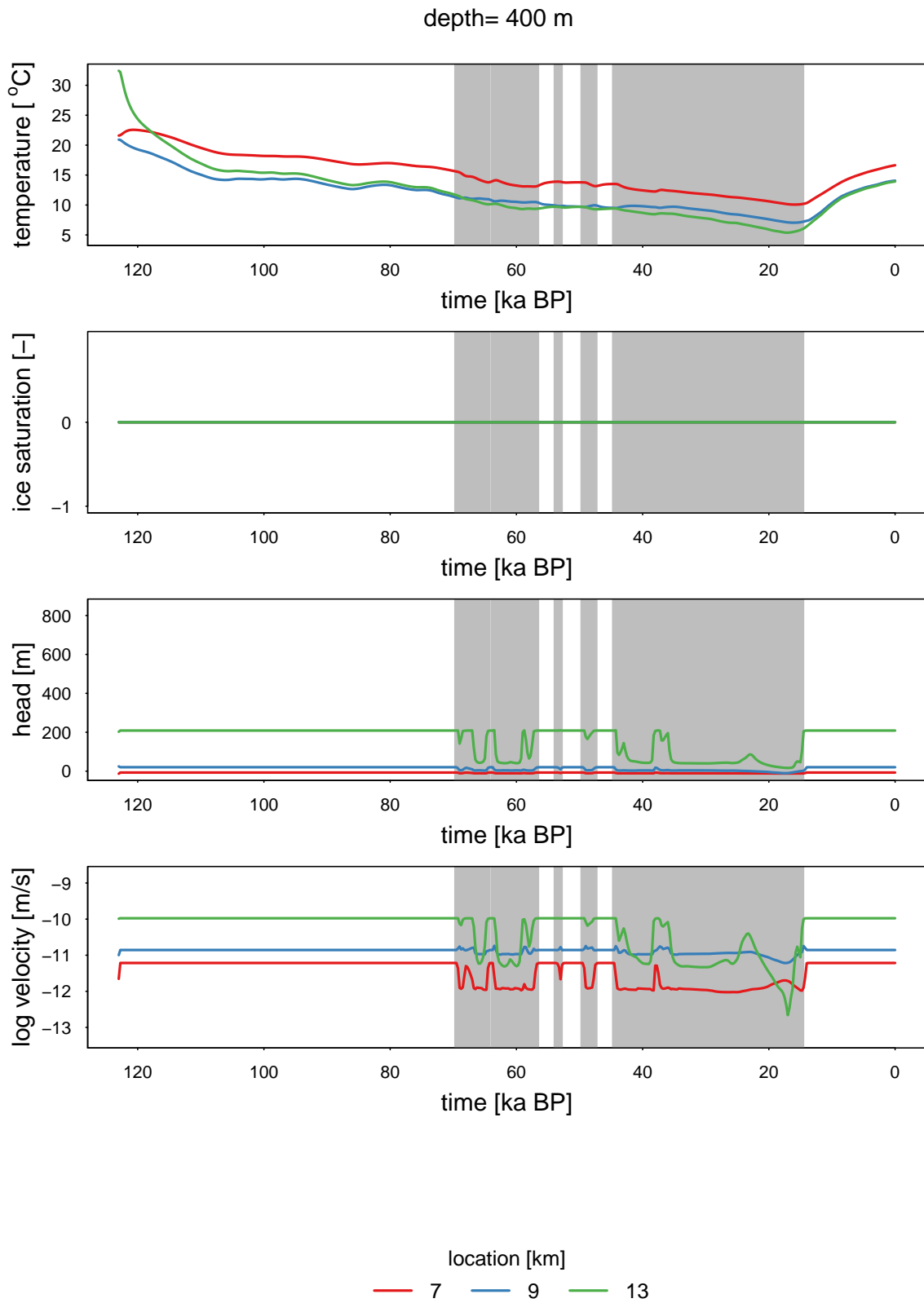
1.1.11 Run T-14_MaxTalik

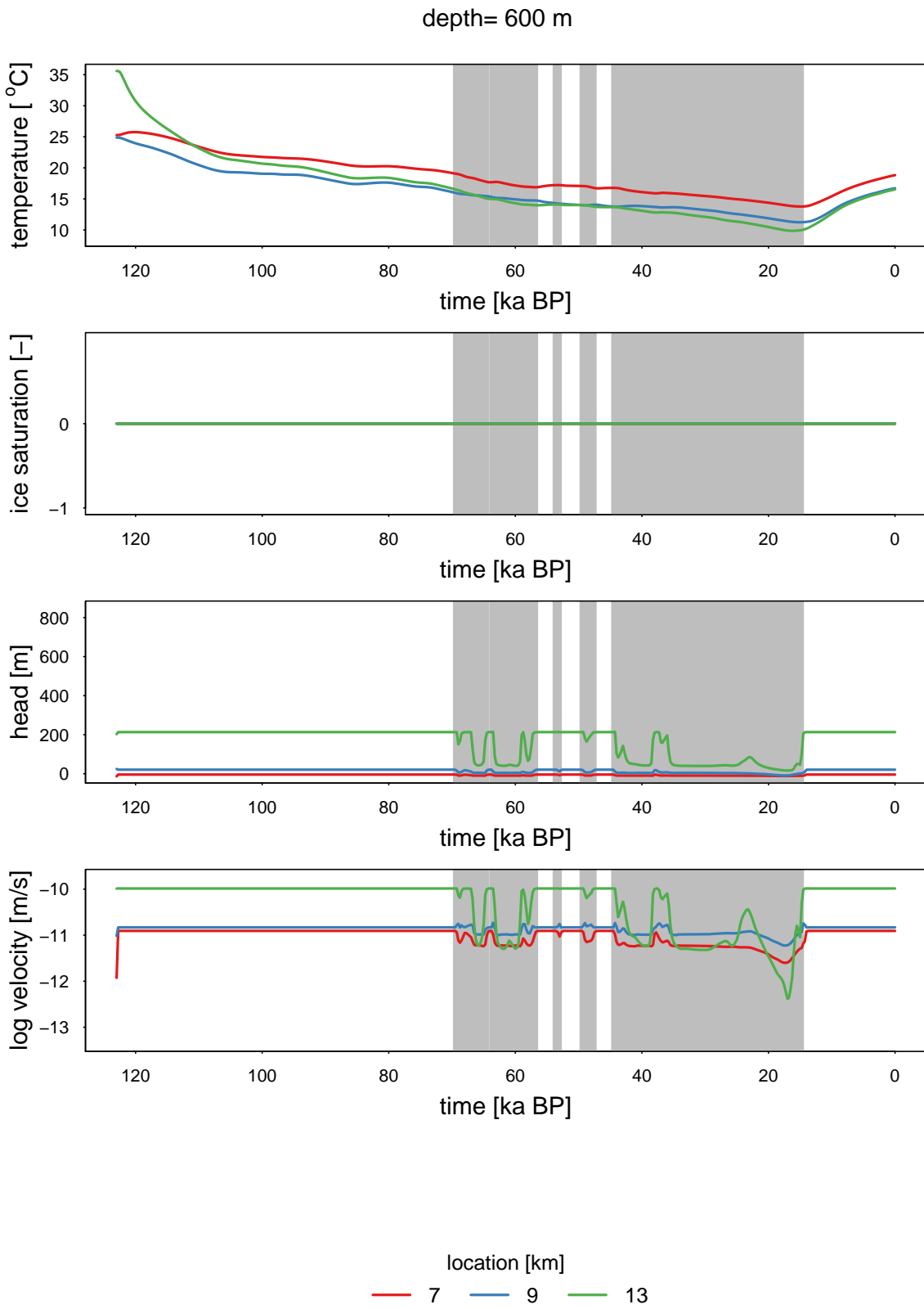




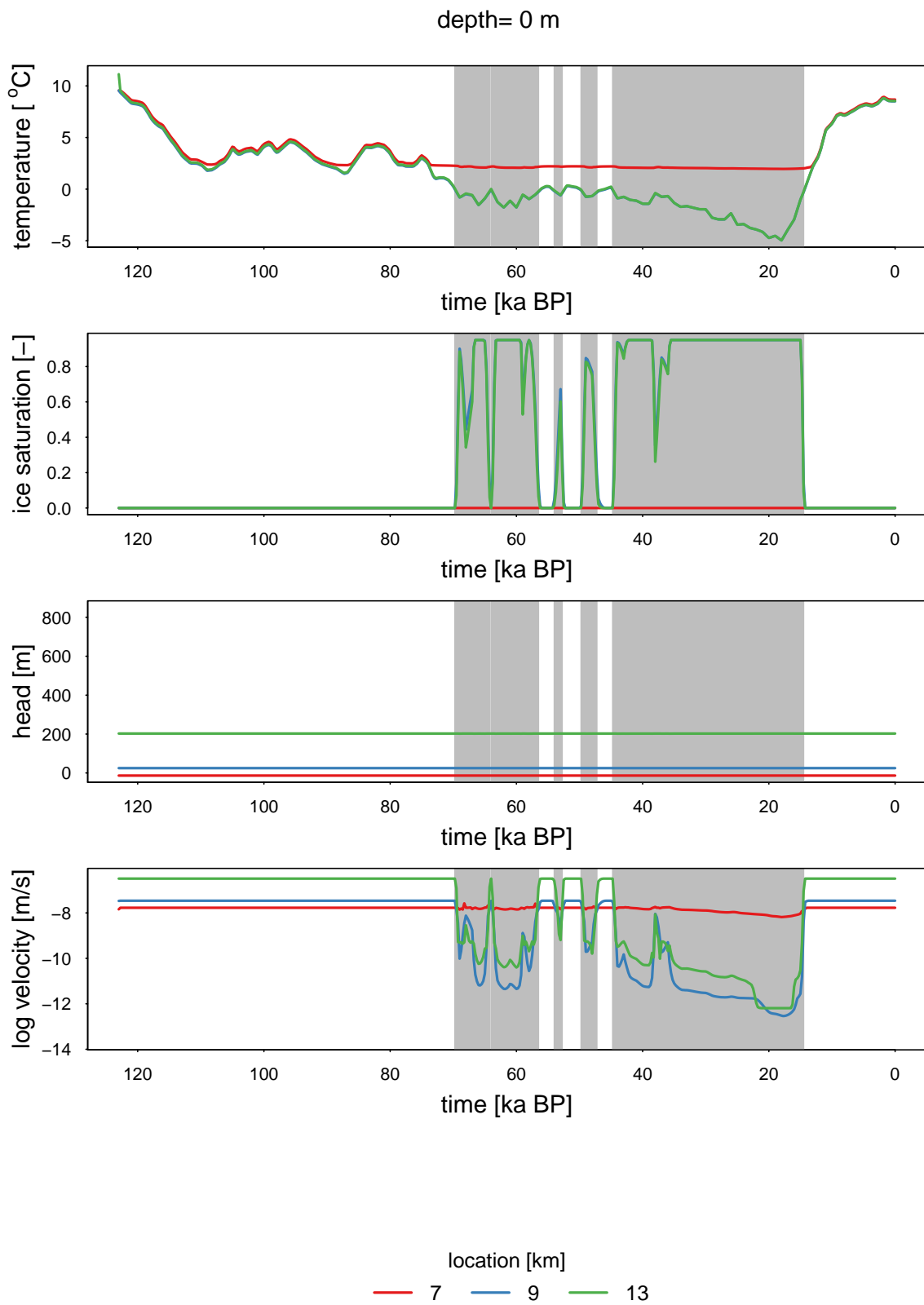


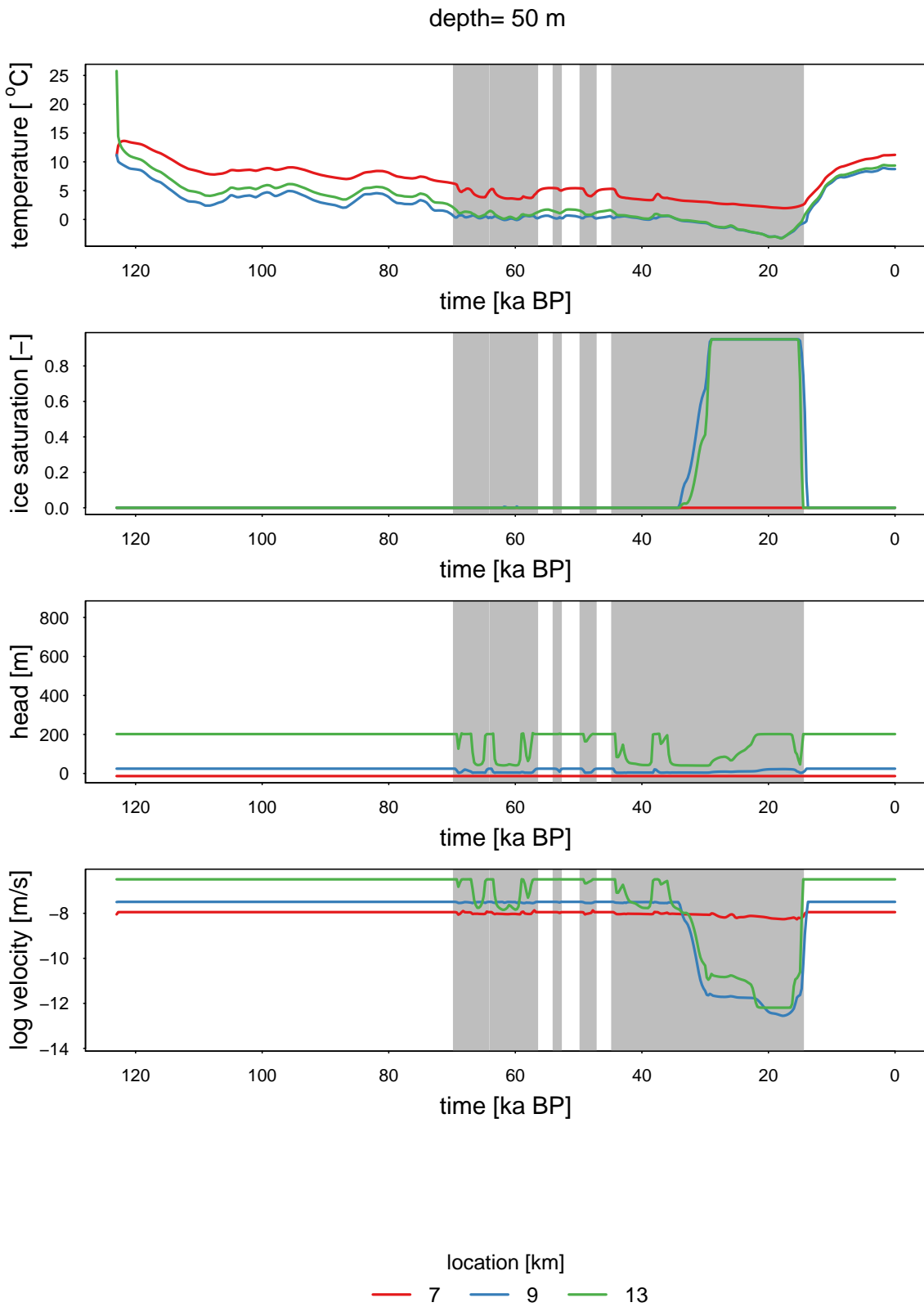


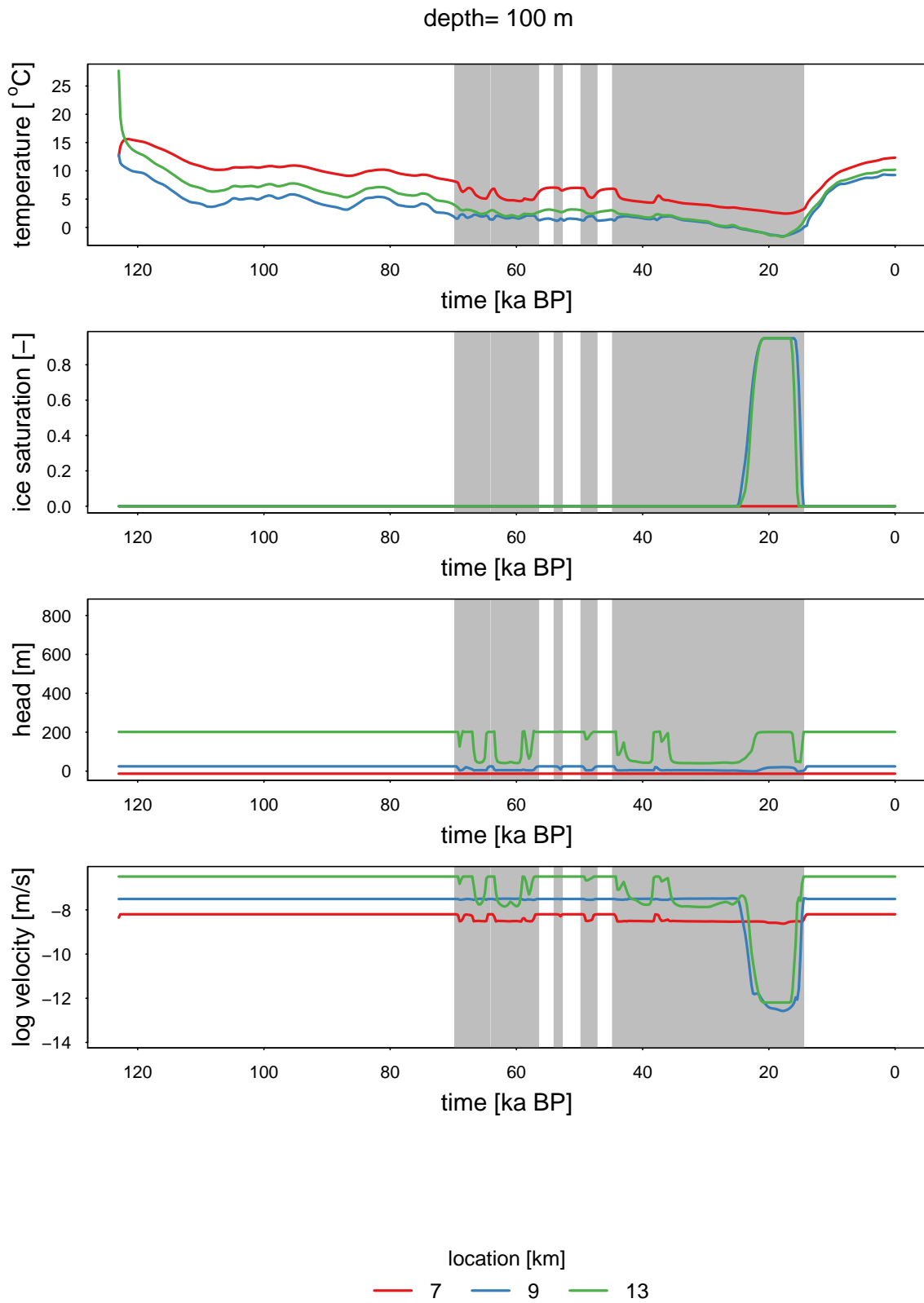


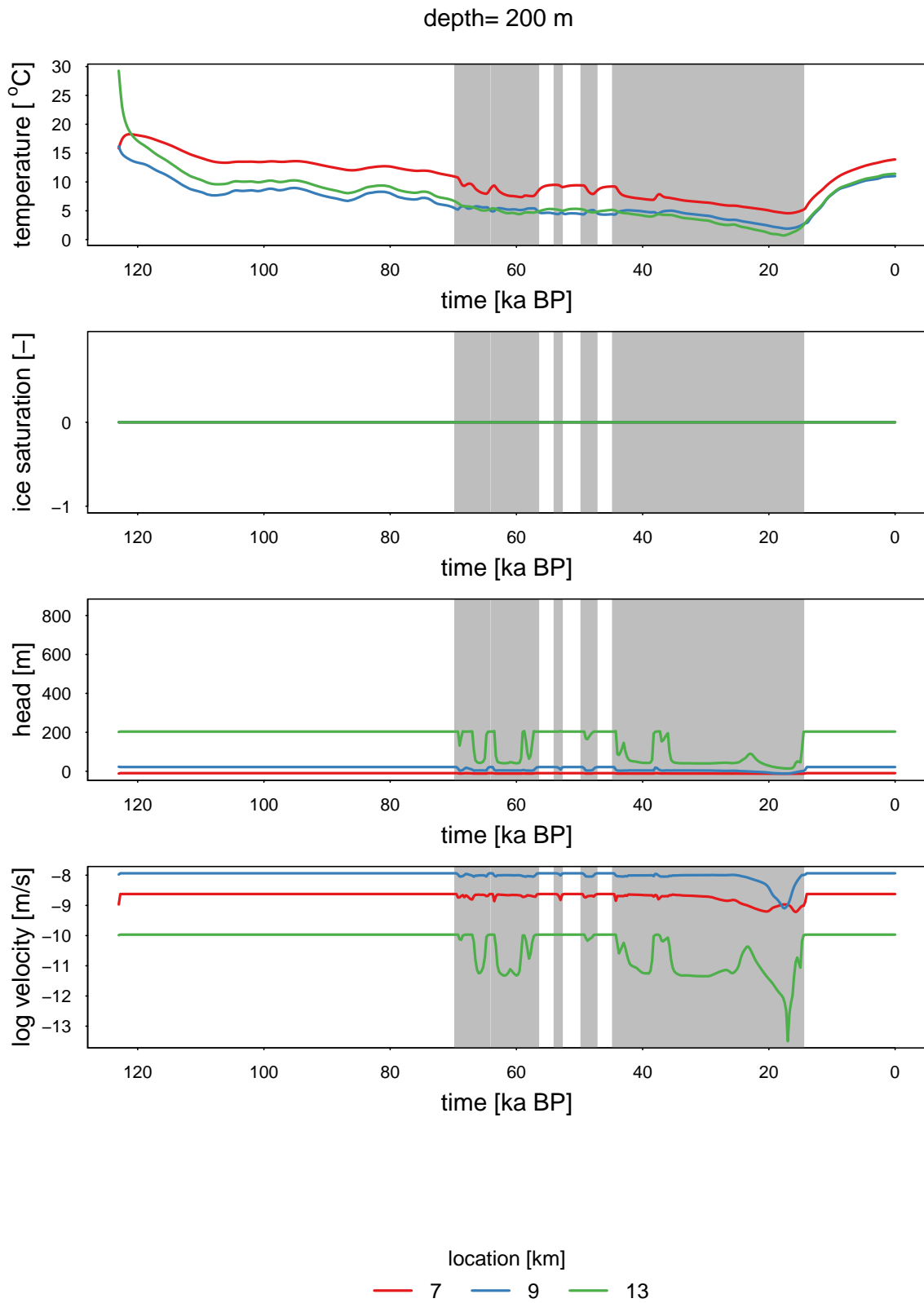


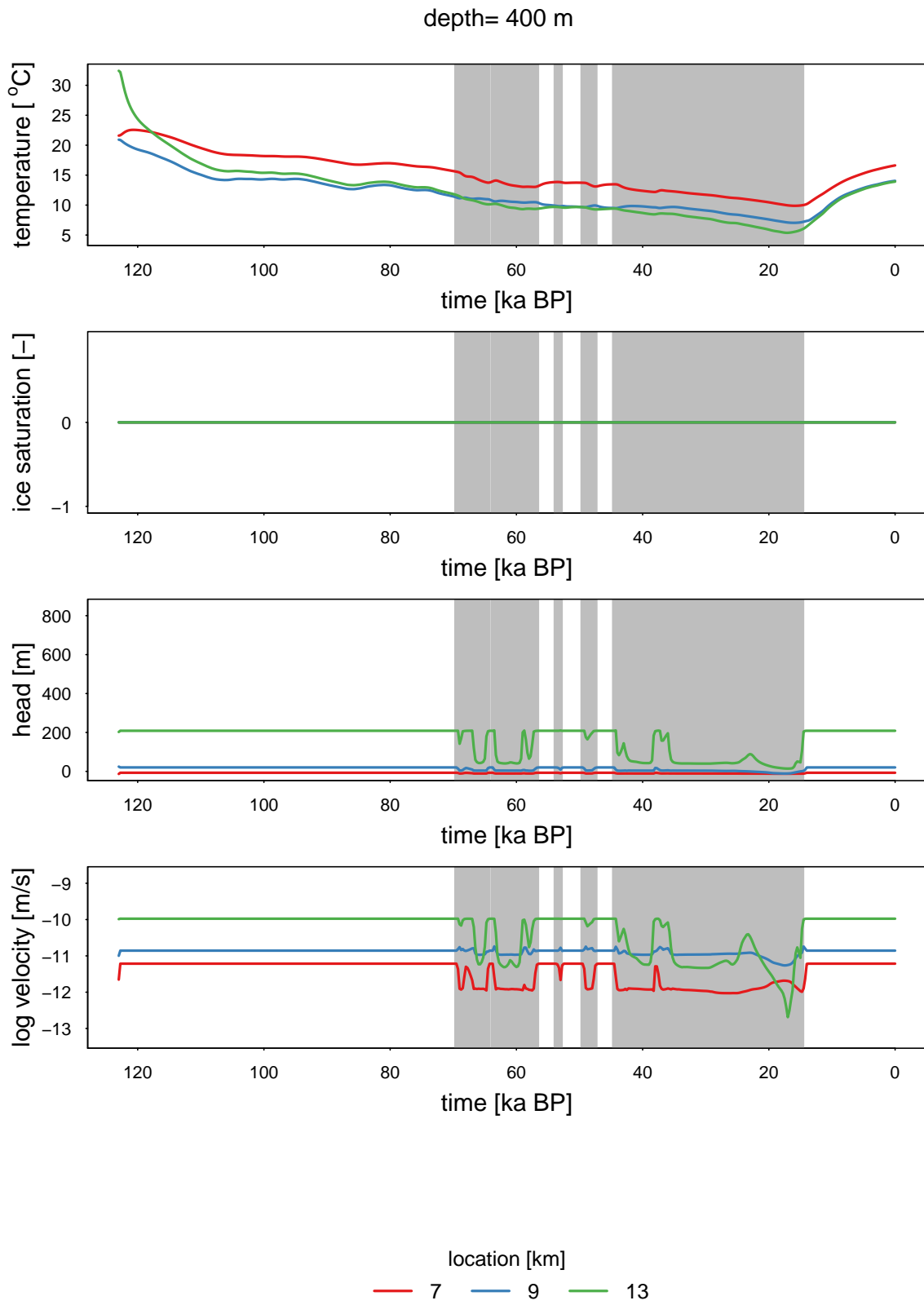
1.1.12 Run T-14_MaxTalik2

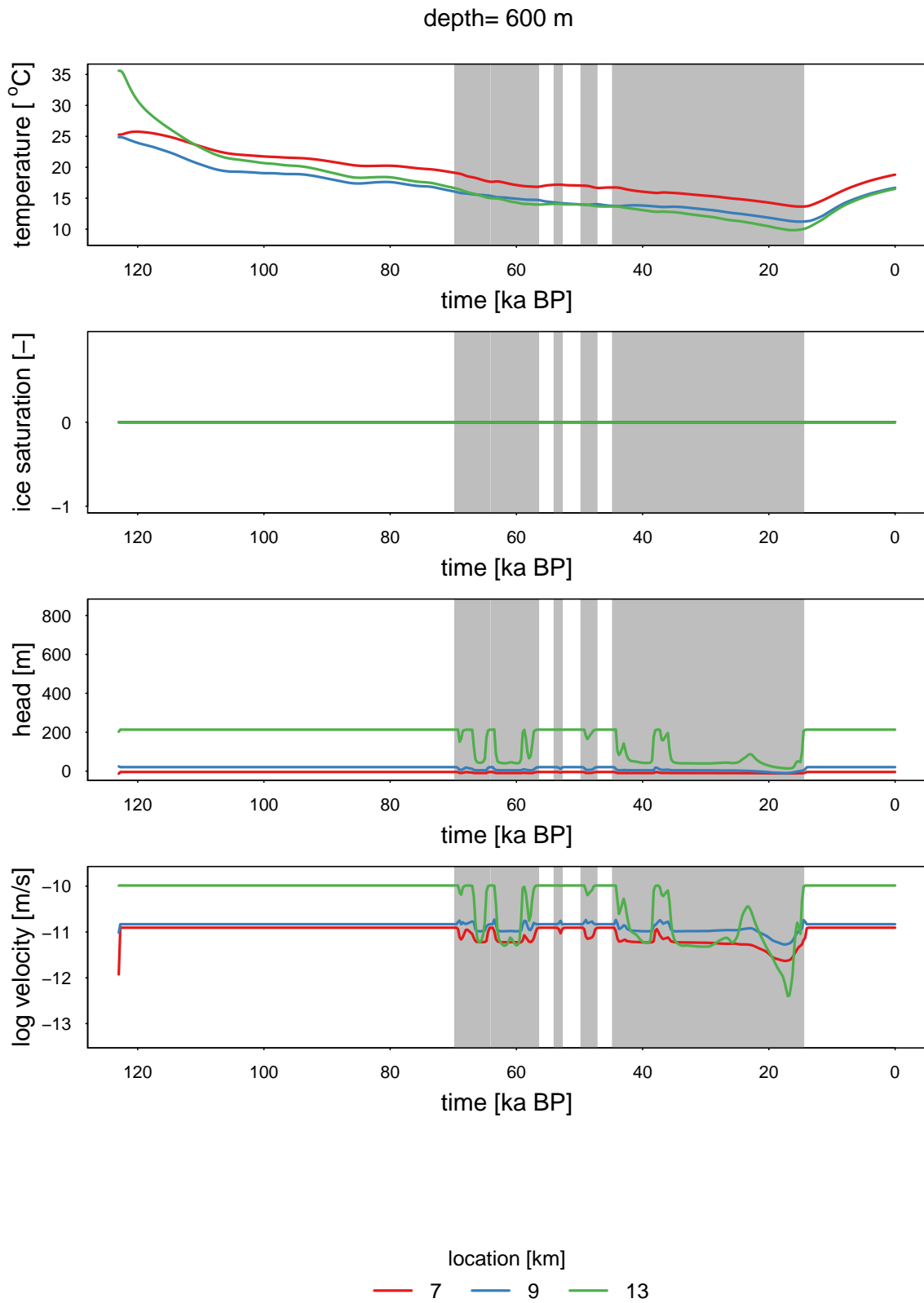








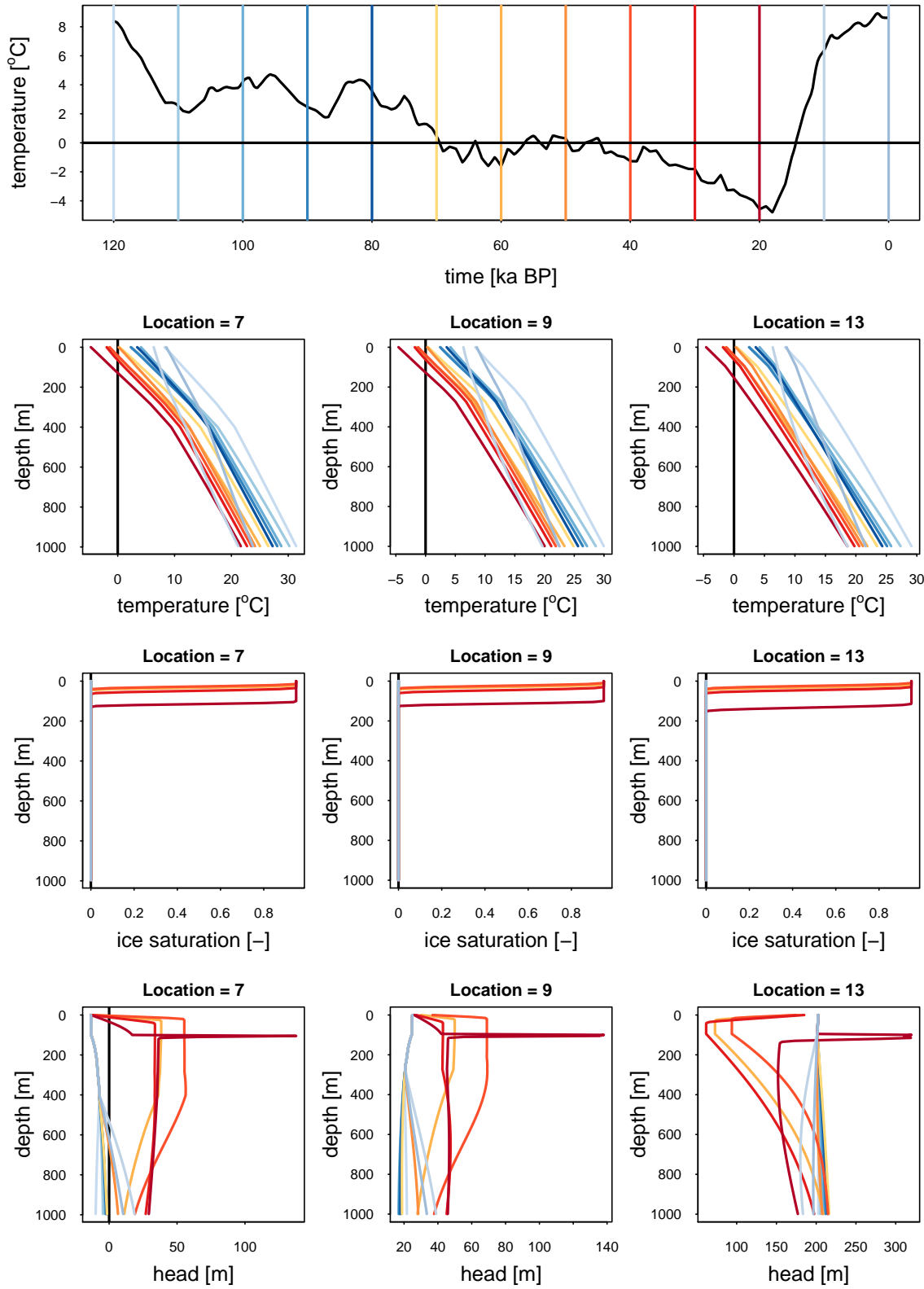


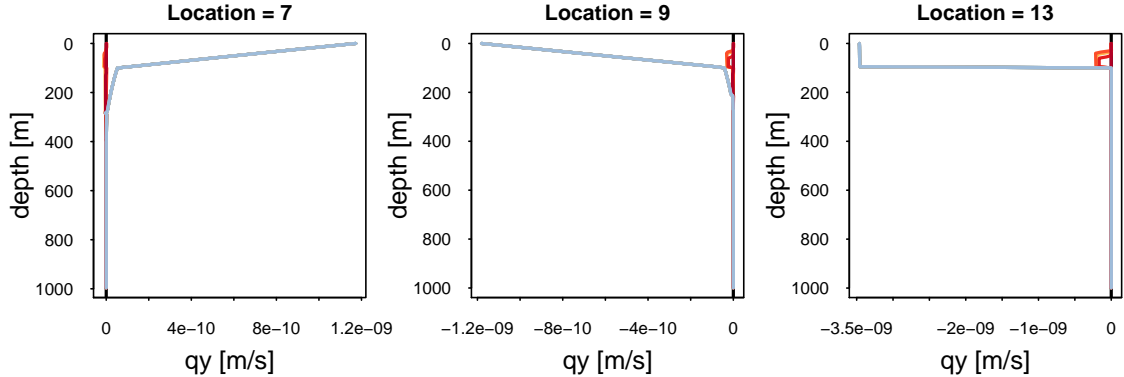
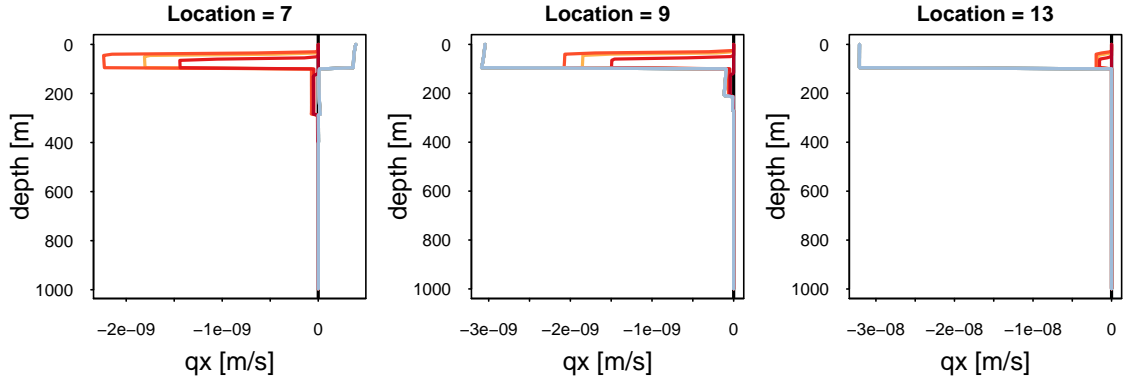
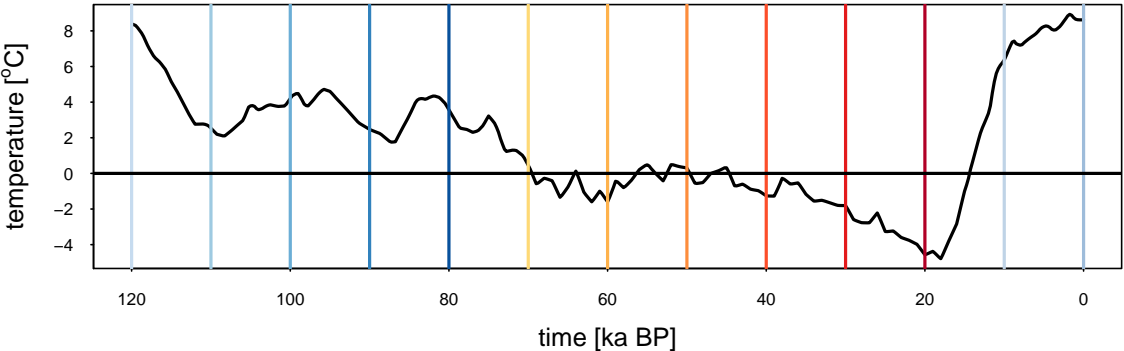


1.2 Depth profiles

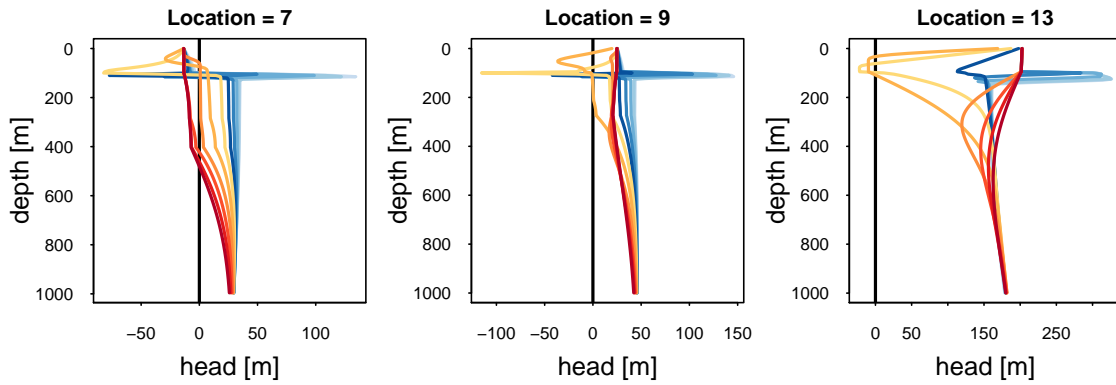
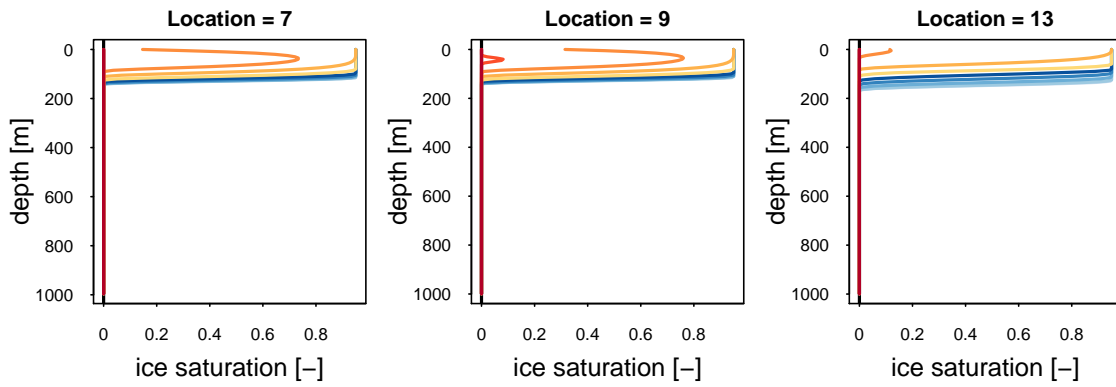
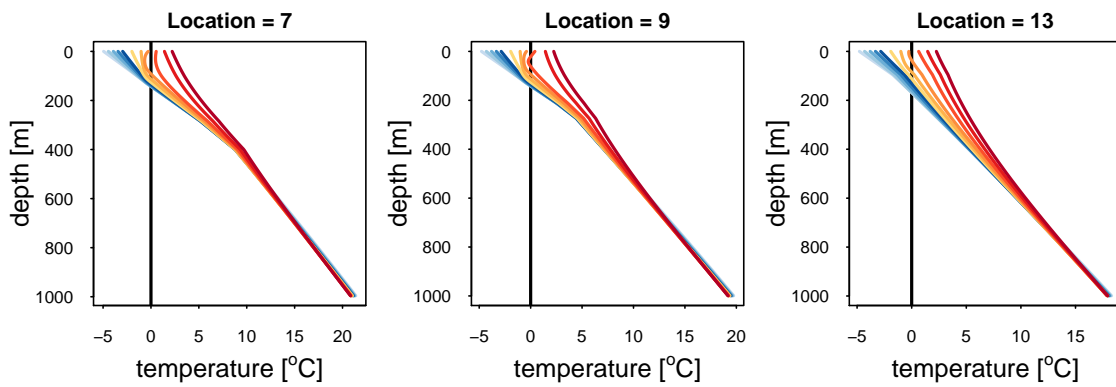
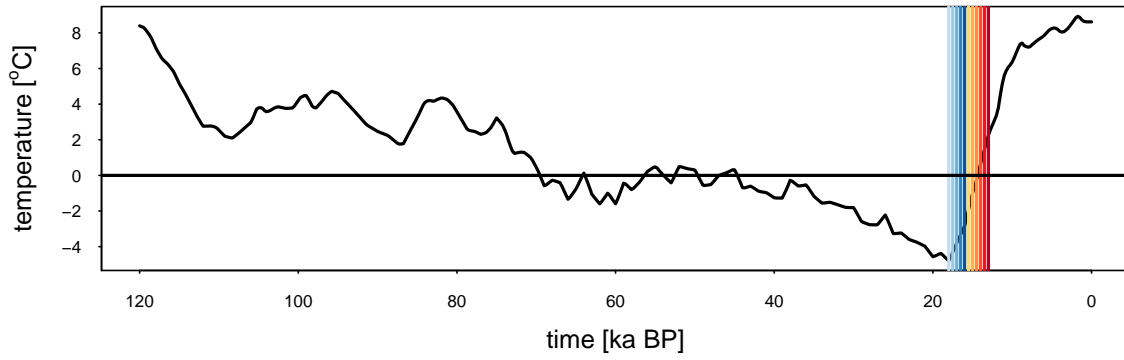
This section presents depth profiles of temperature, ice saturation, hydraulic head, lateral flow (q_x) and vertical flow (q_y) at times outlined in the temperature time series at the top of the page. Profiles at 7, 9 and 13 of the model domain (Figure 7) are presented for the model runs described in Section 4.4.2 and in Table 4.

1.2.1 Run T-14_Min

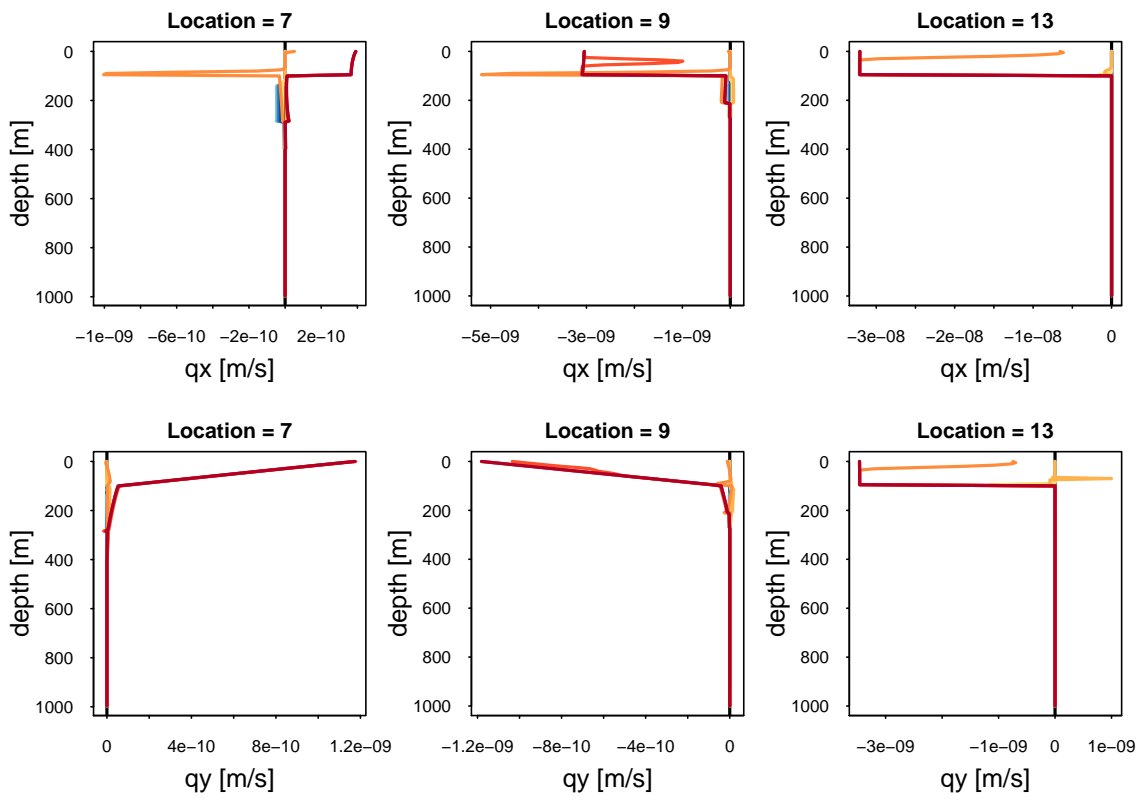
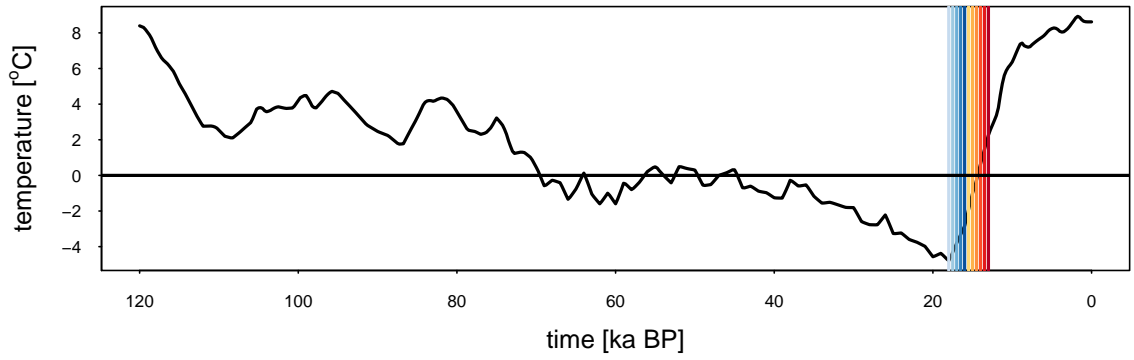




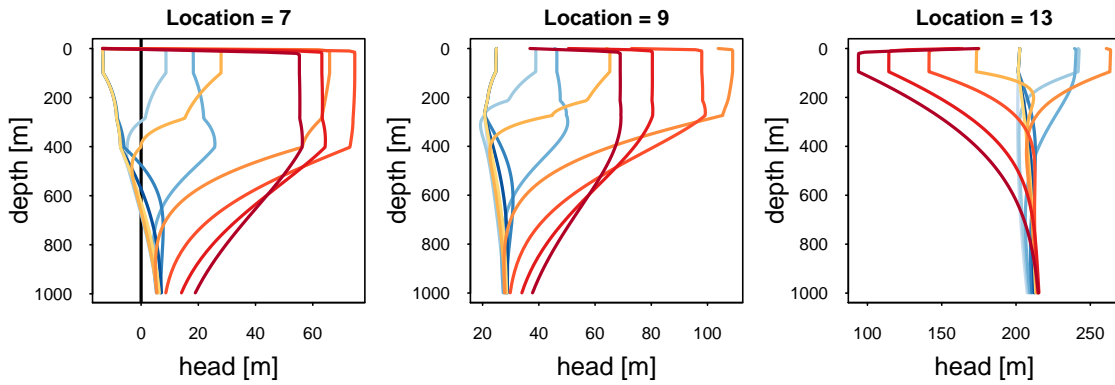
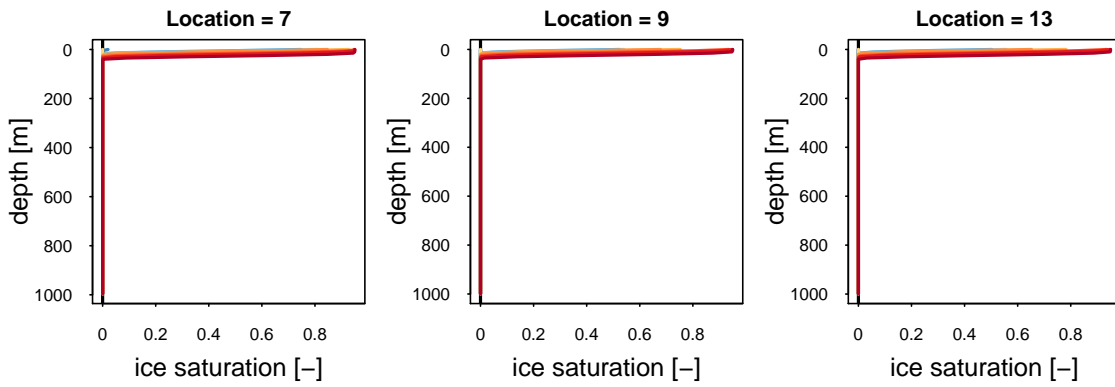
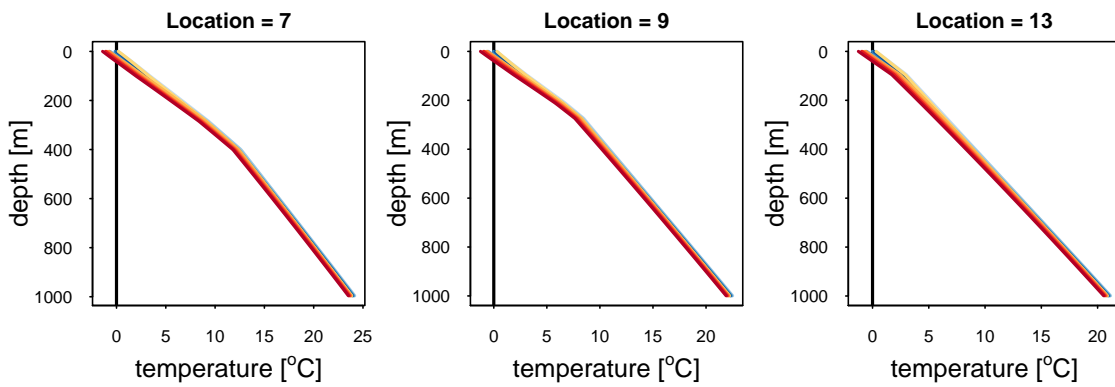
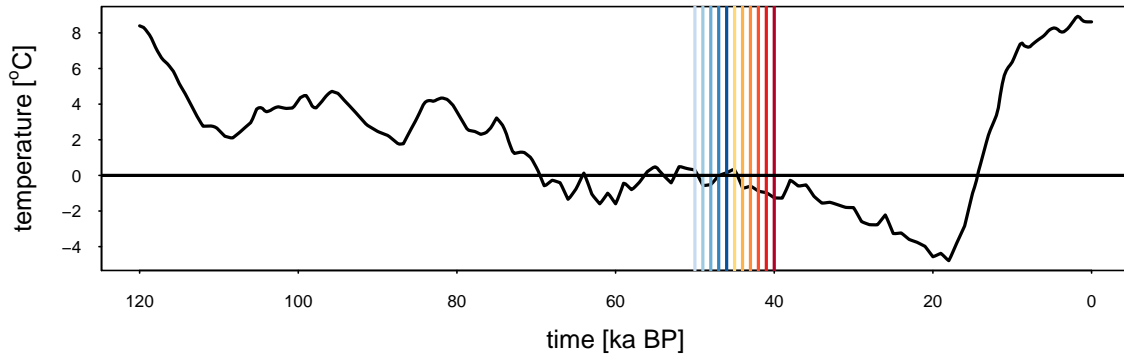
T-14_Min



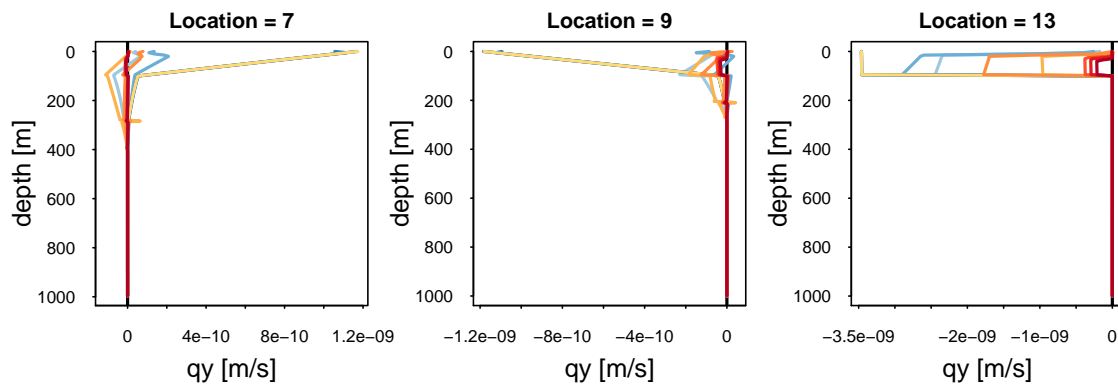
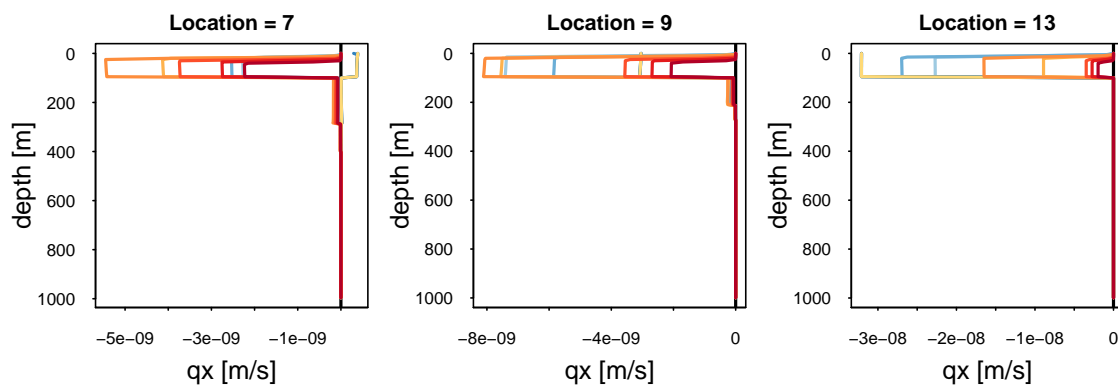
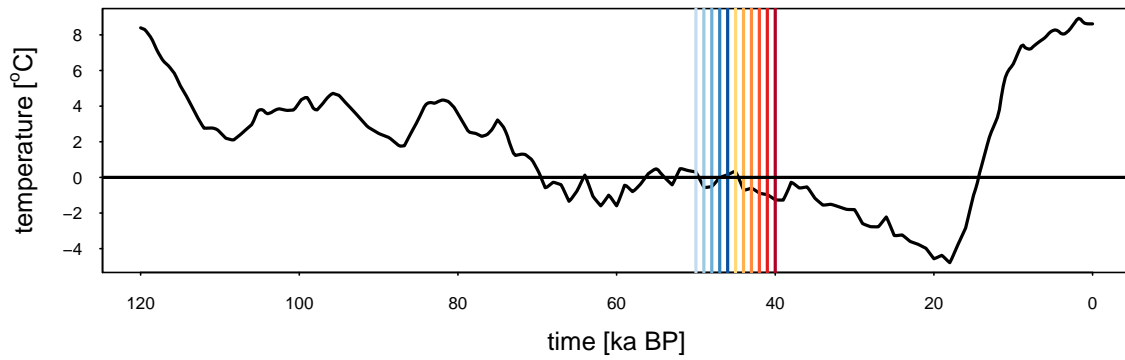
T-14_Min



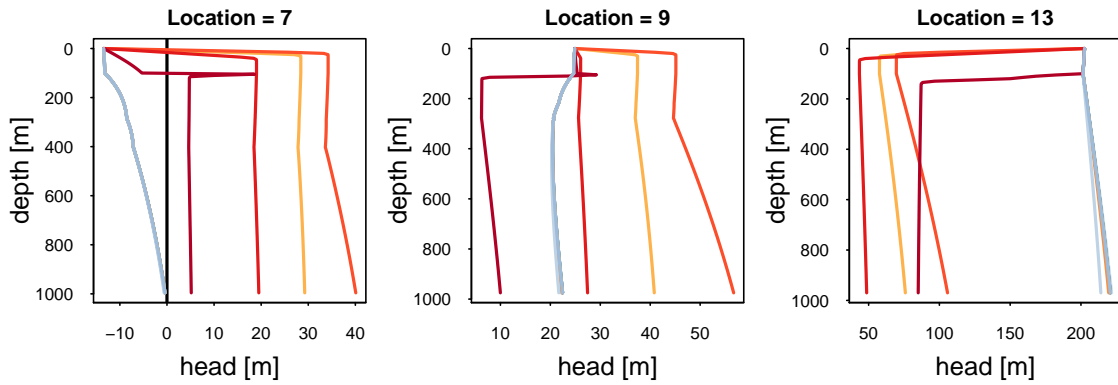
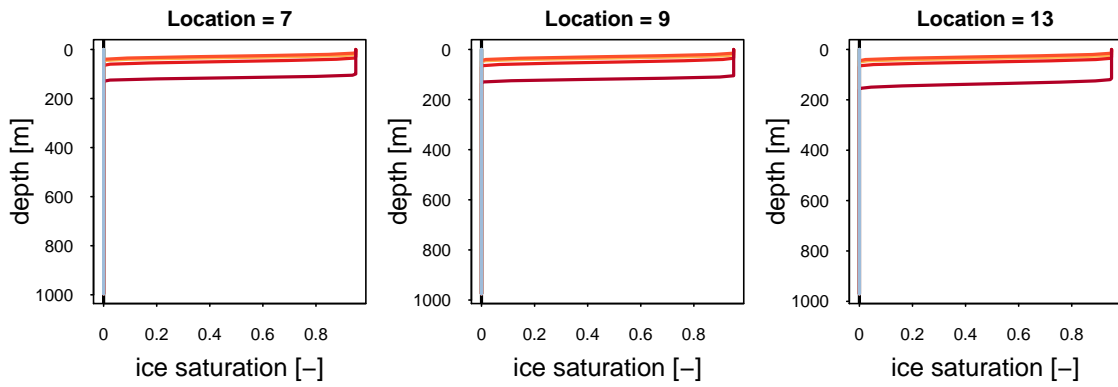
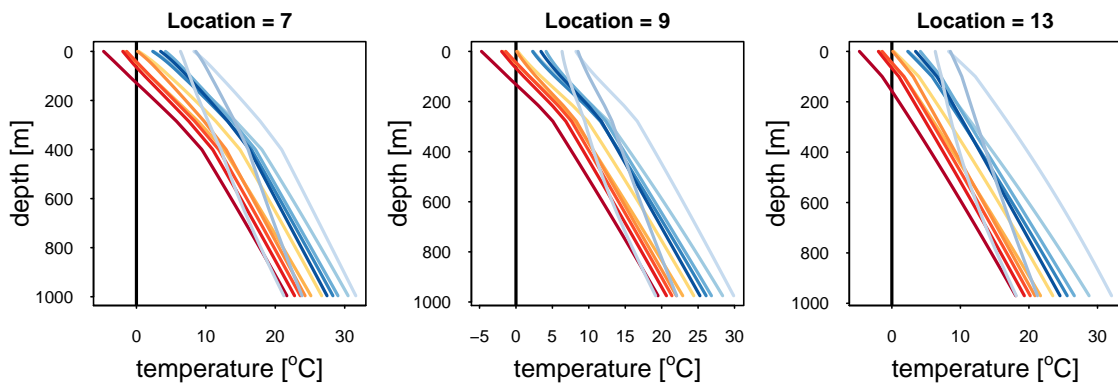
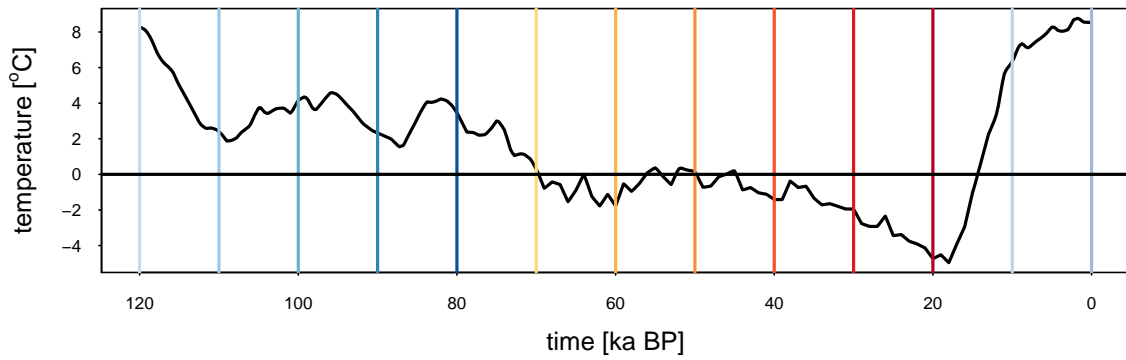
T-14_Min

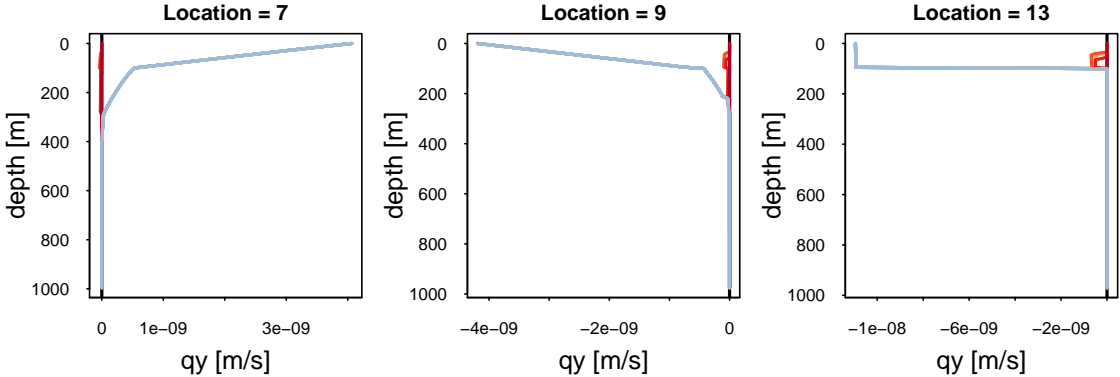
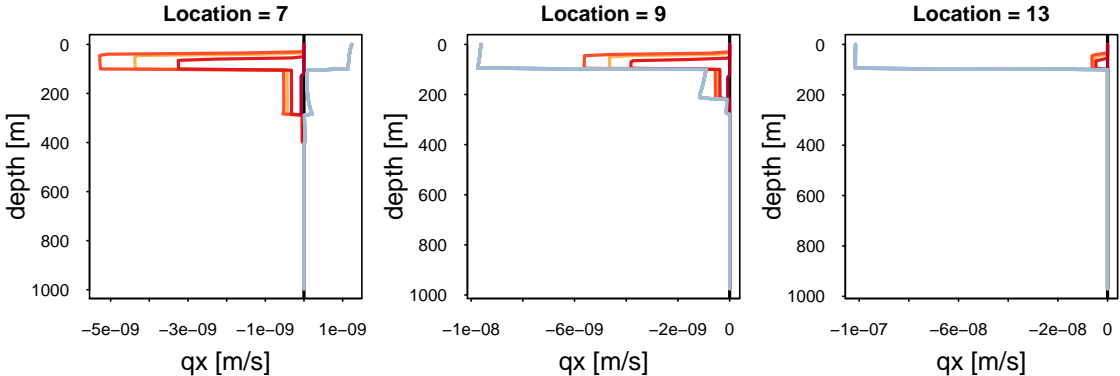
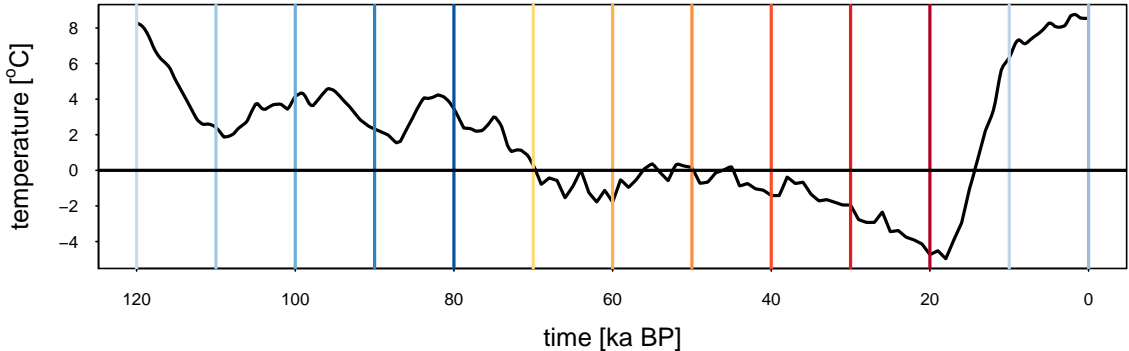


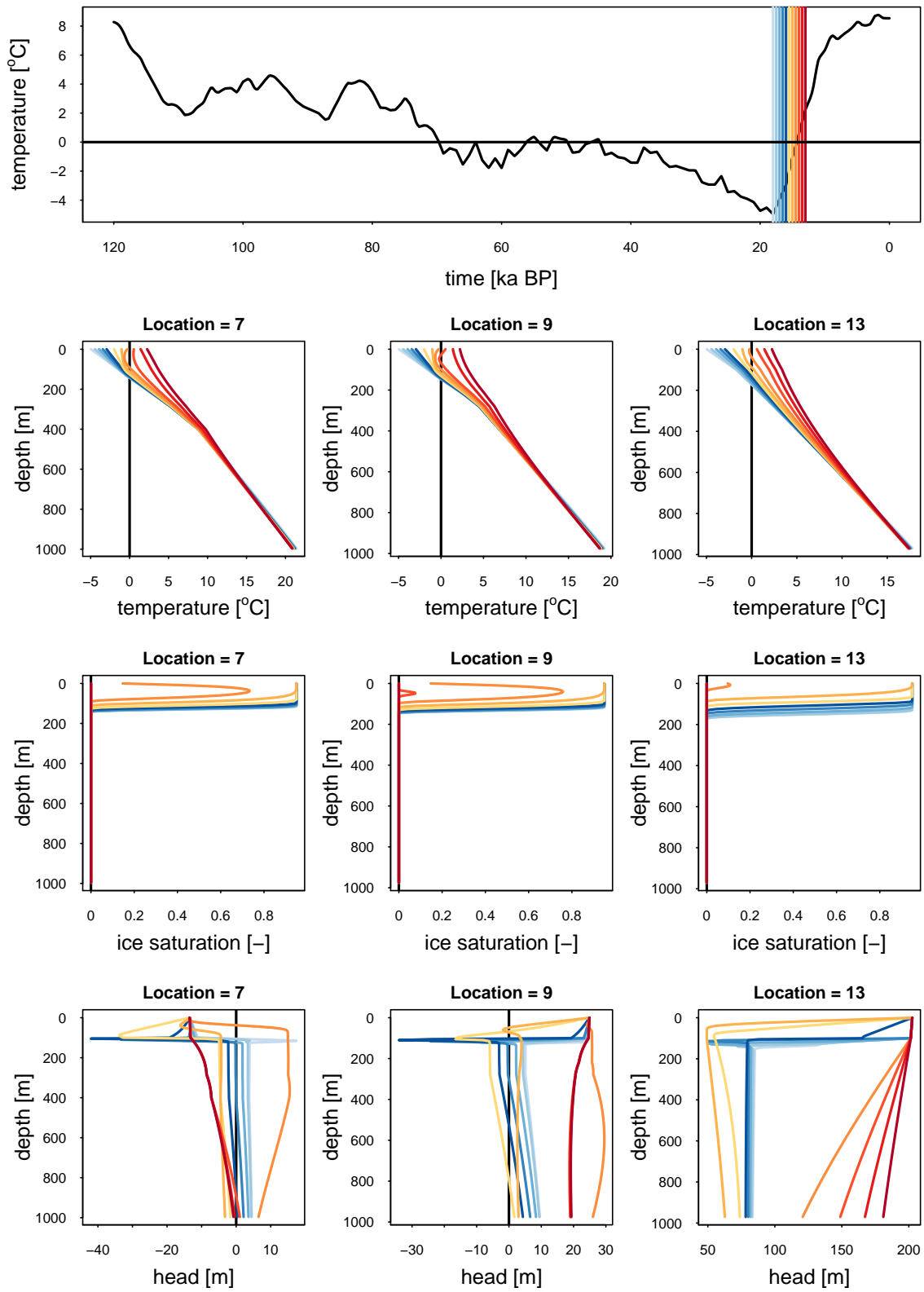
T-14_Min

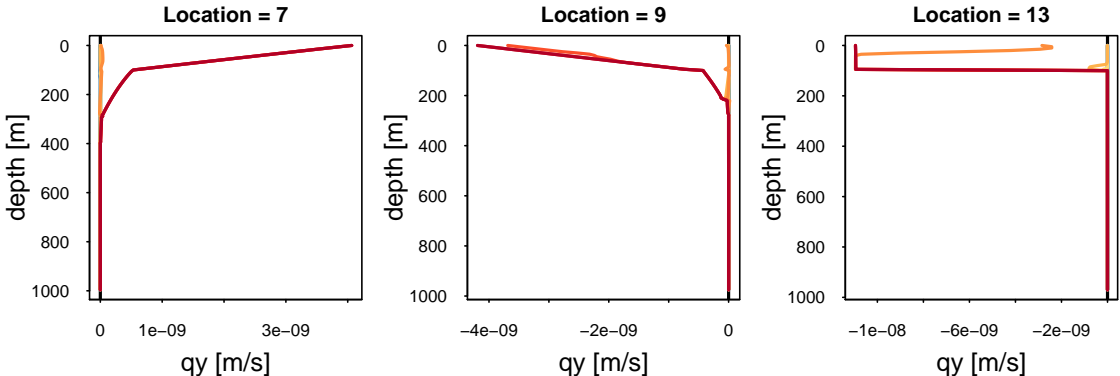
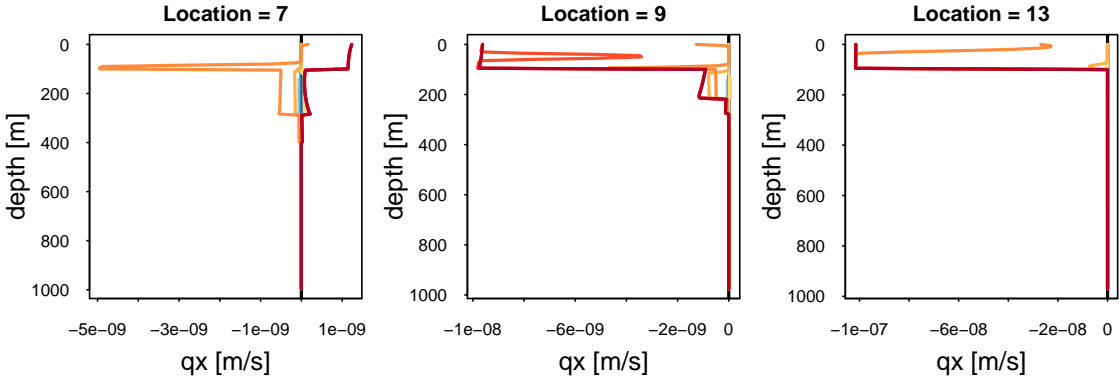
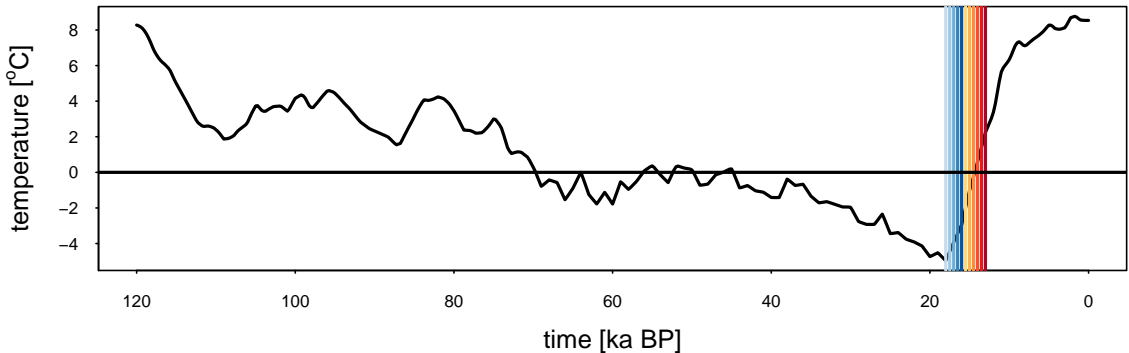


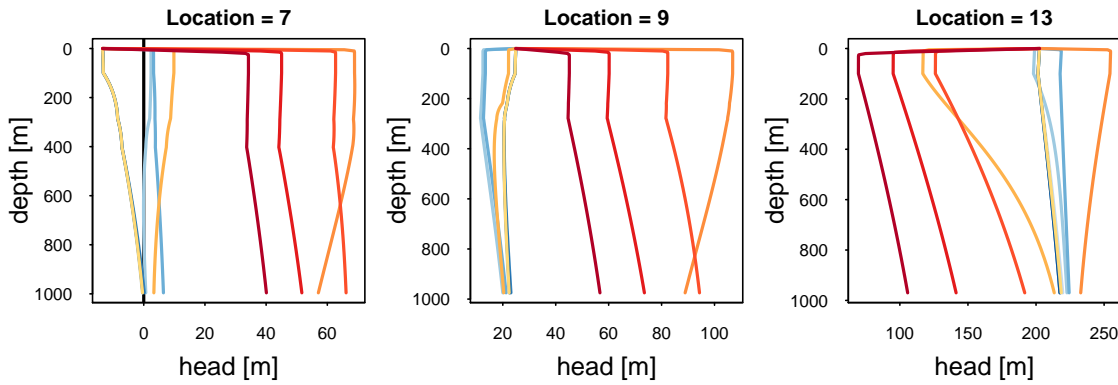
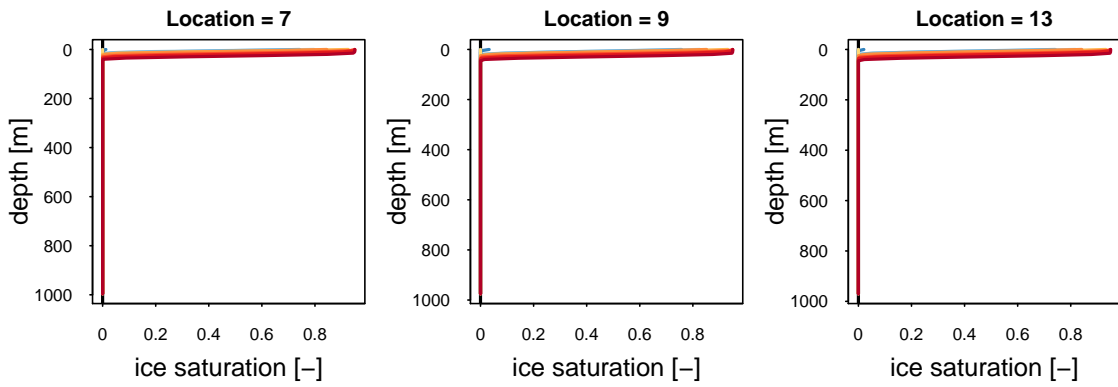
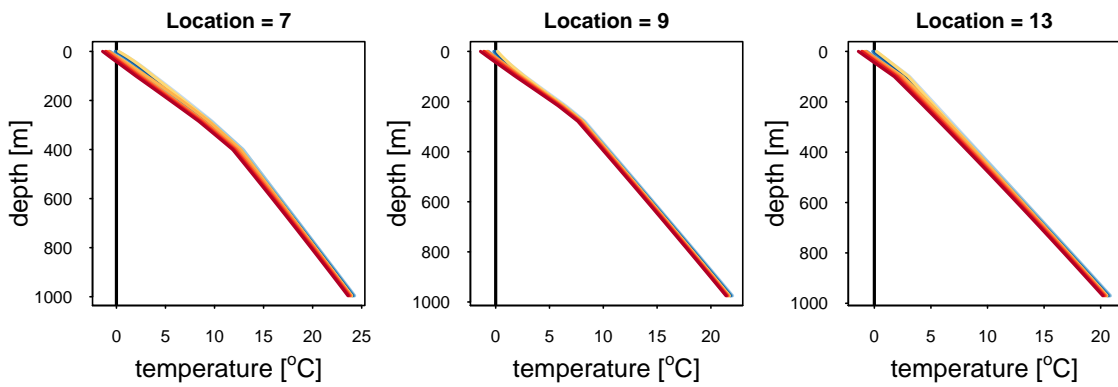
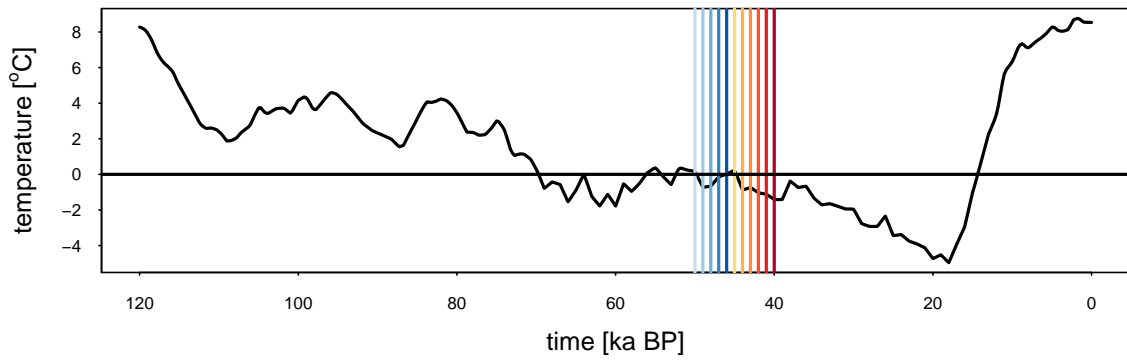
1.2.2 Run T-14_Med

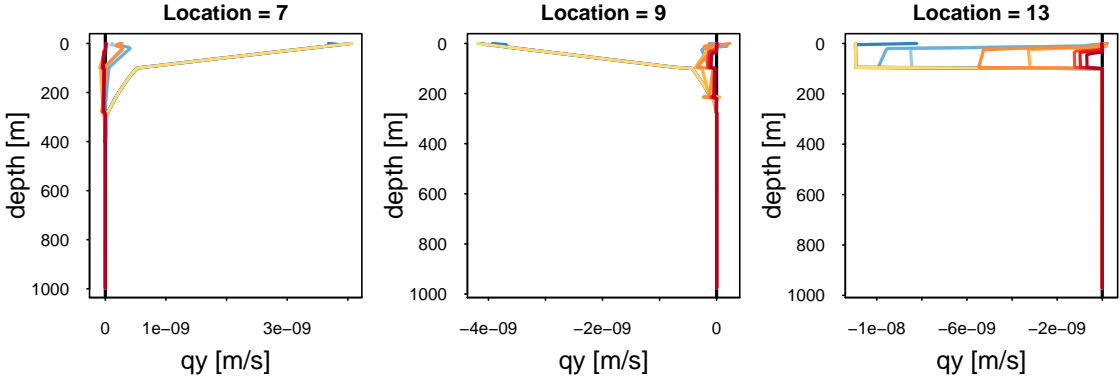
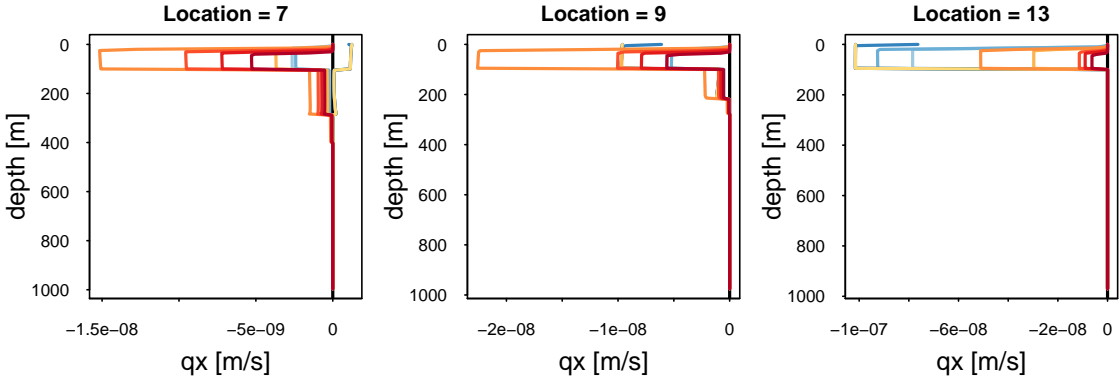
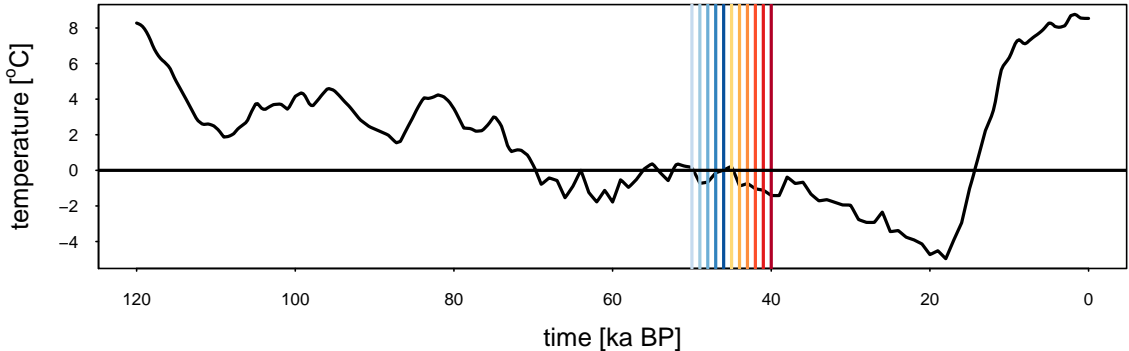




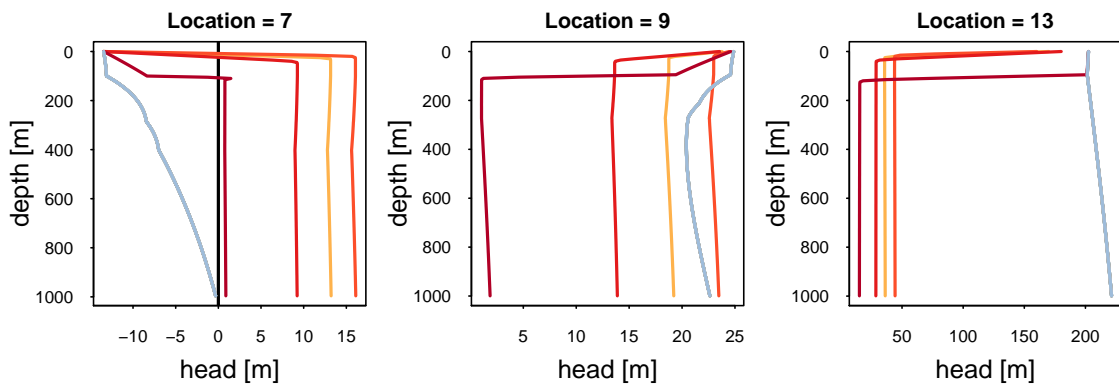
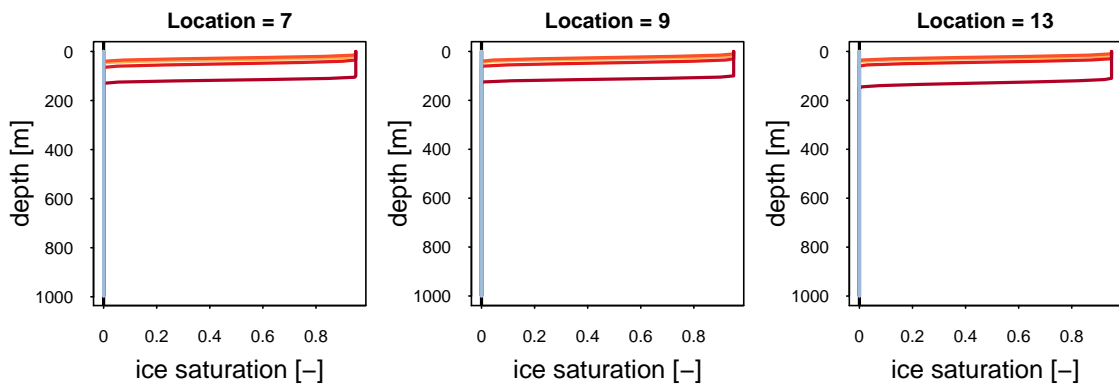
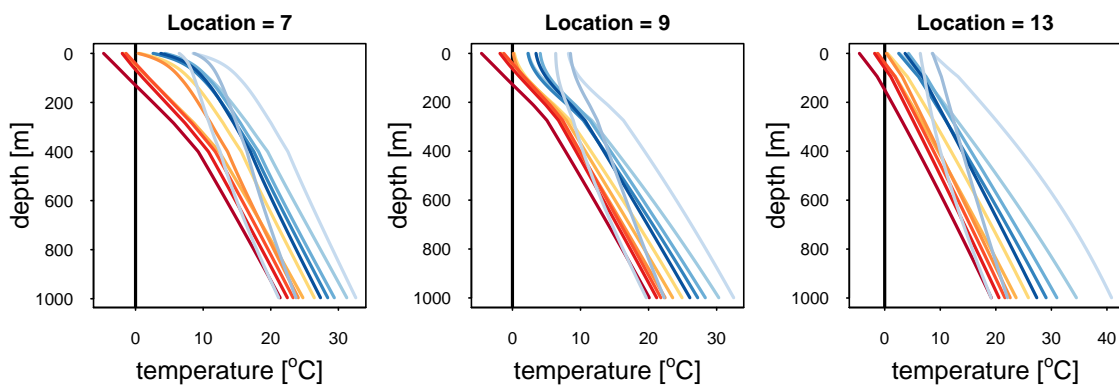
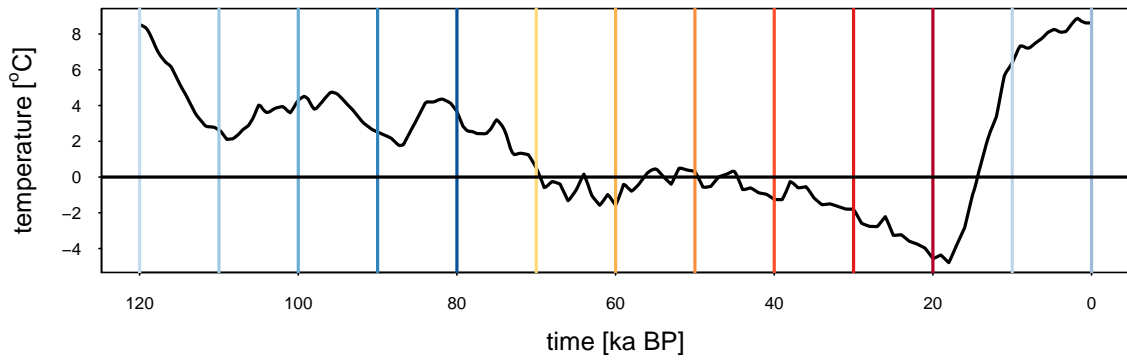


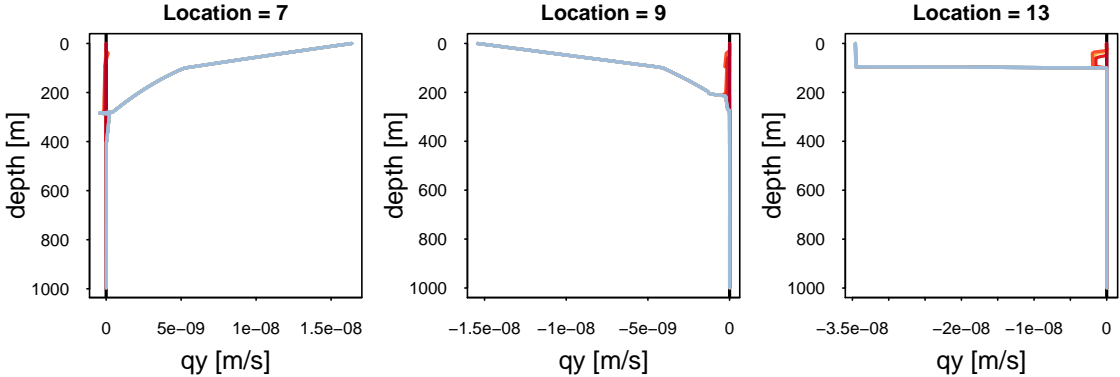
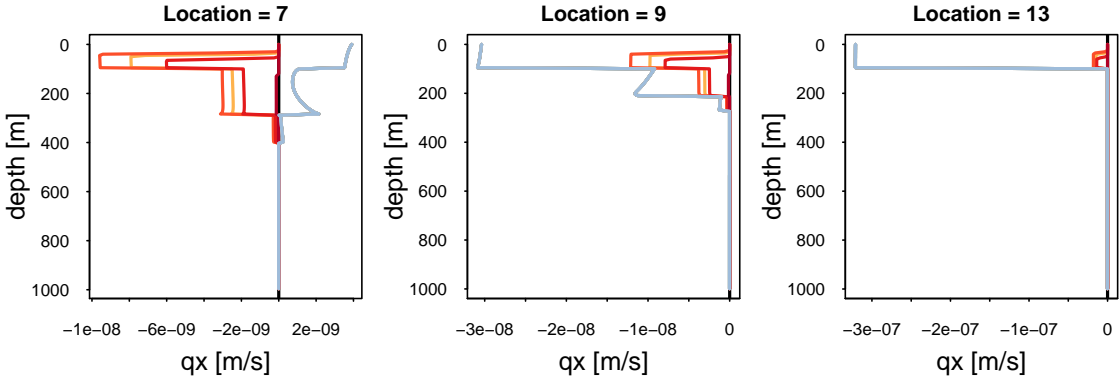
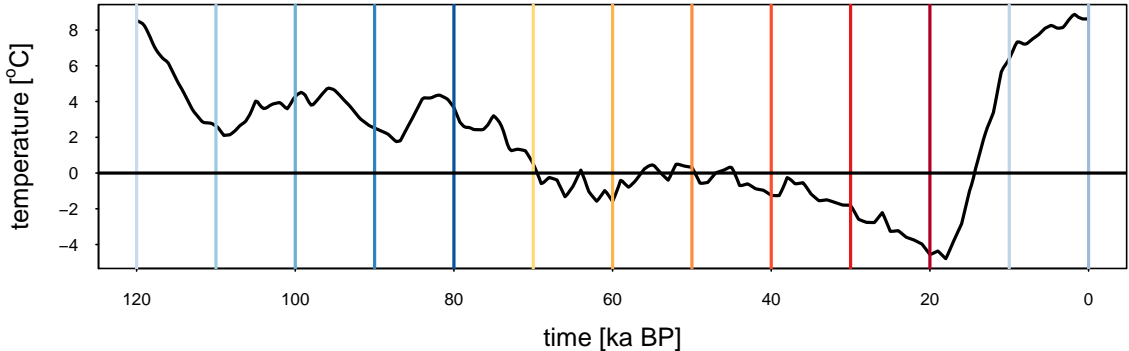


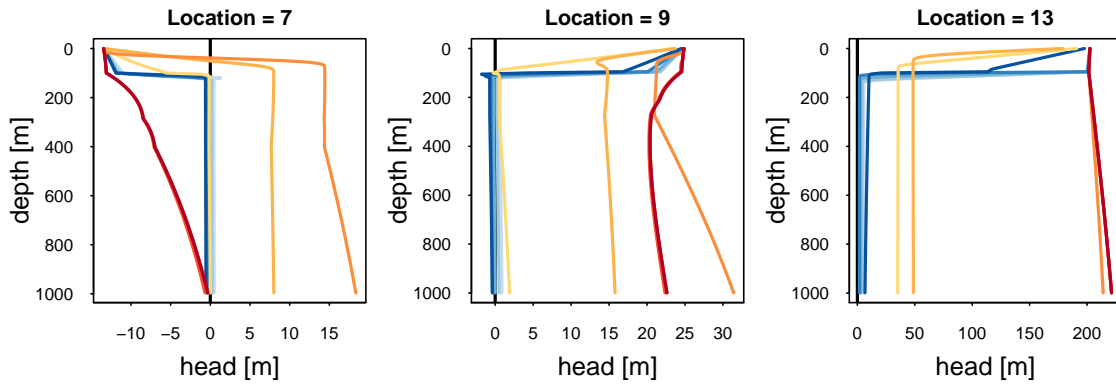
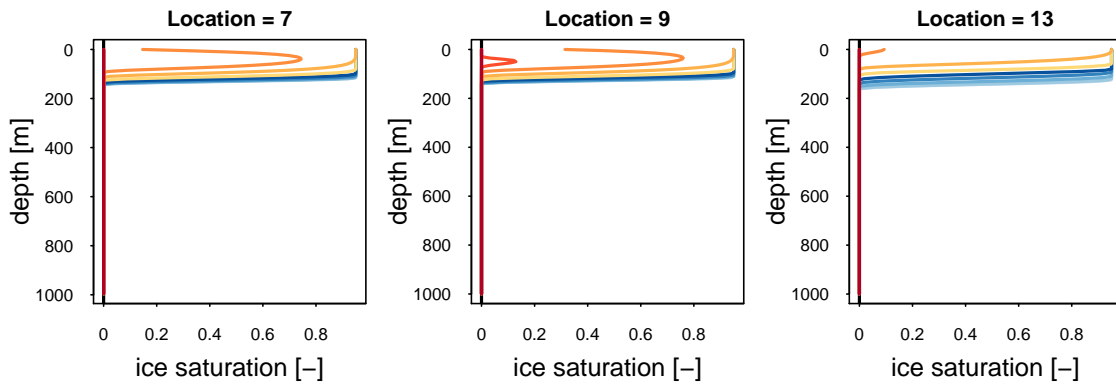
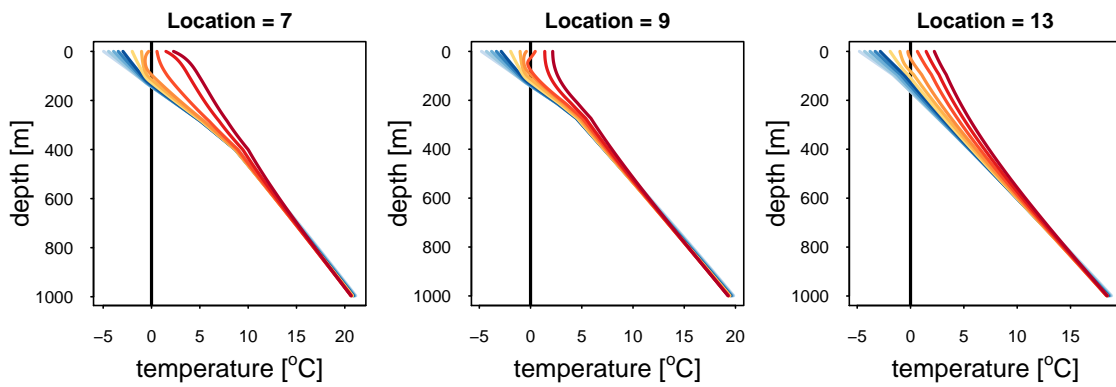
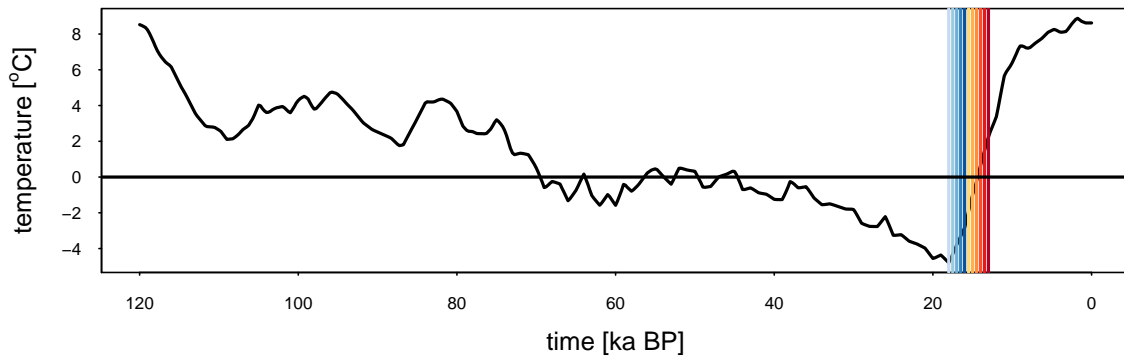


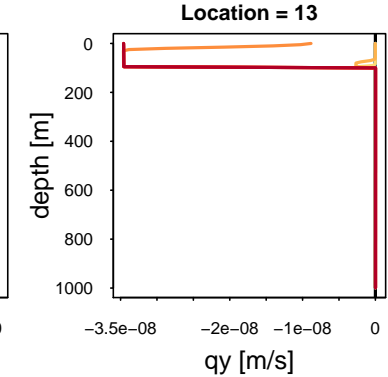
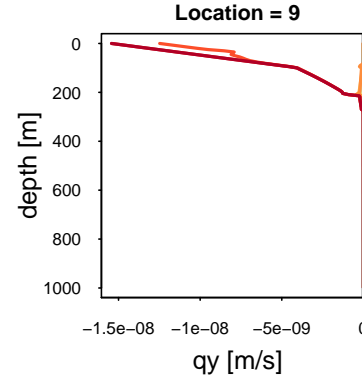
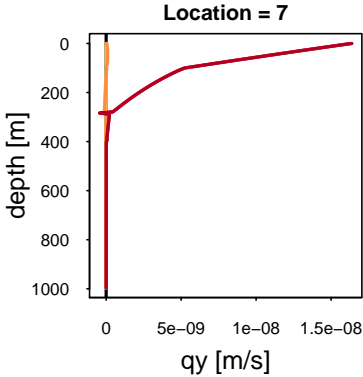
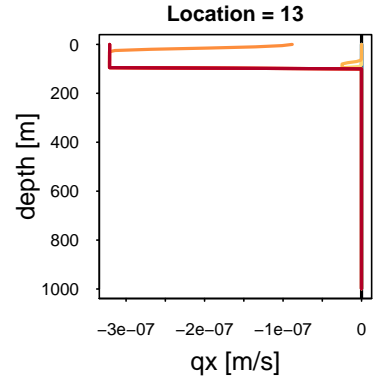
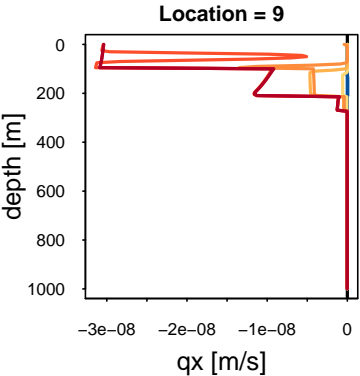
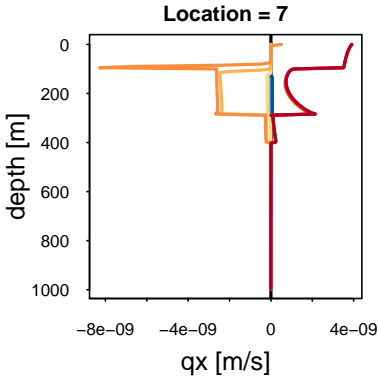
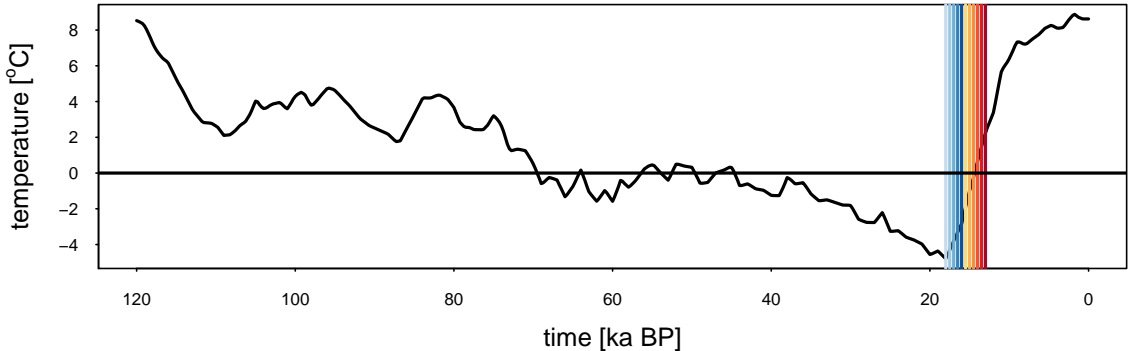


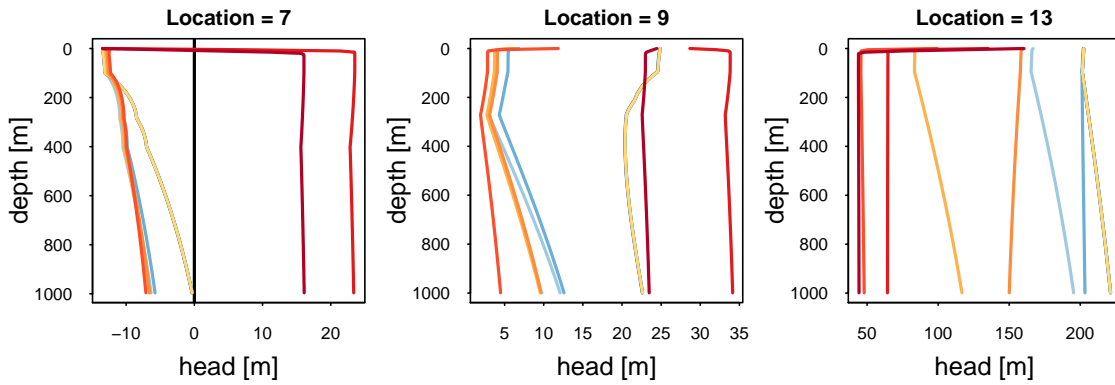
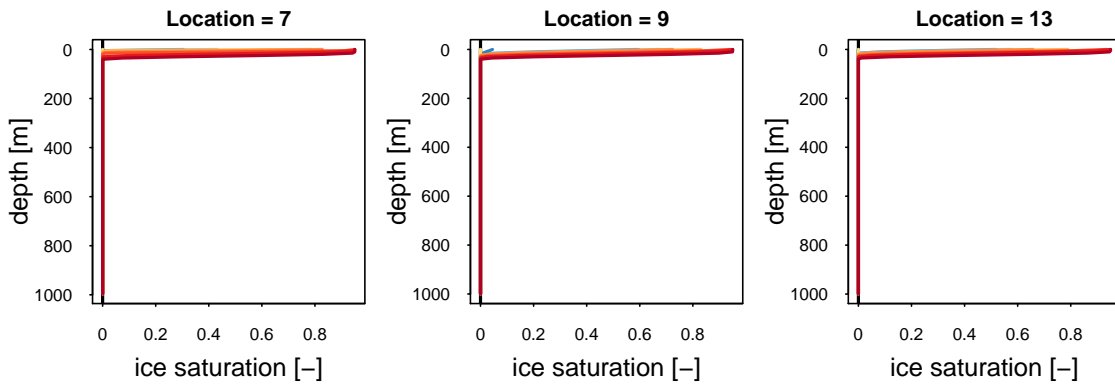
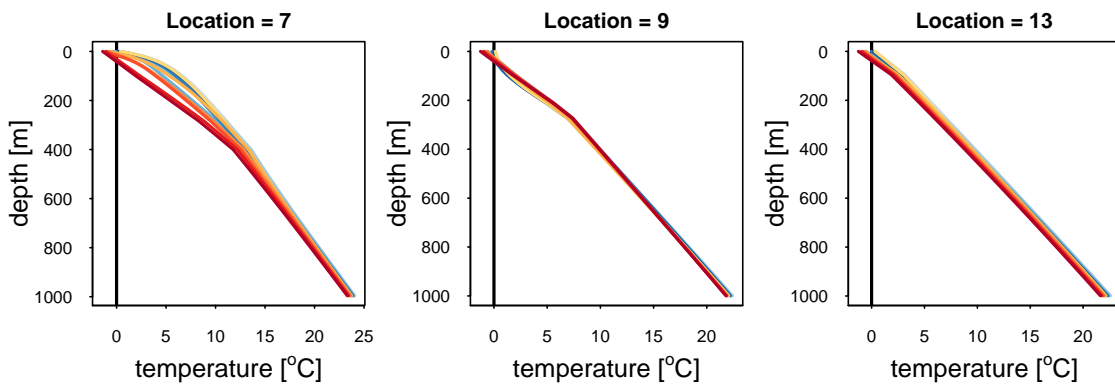
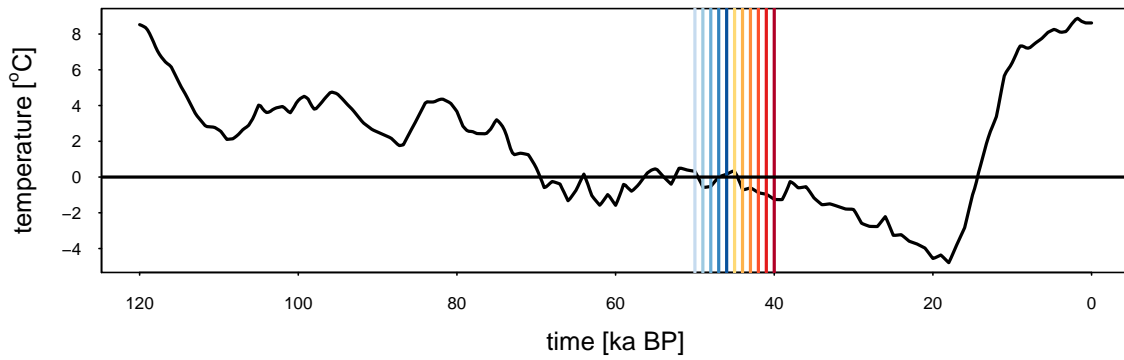
1.2.3 Run T-14_Max

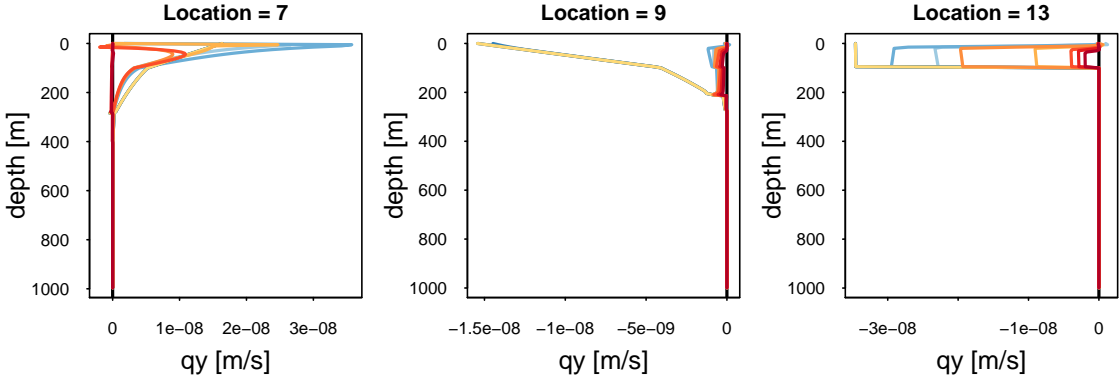
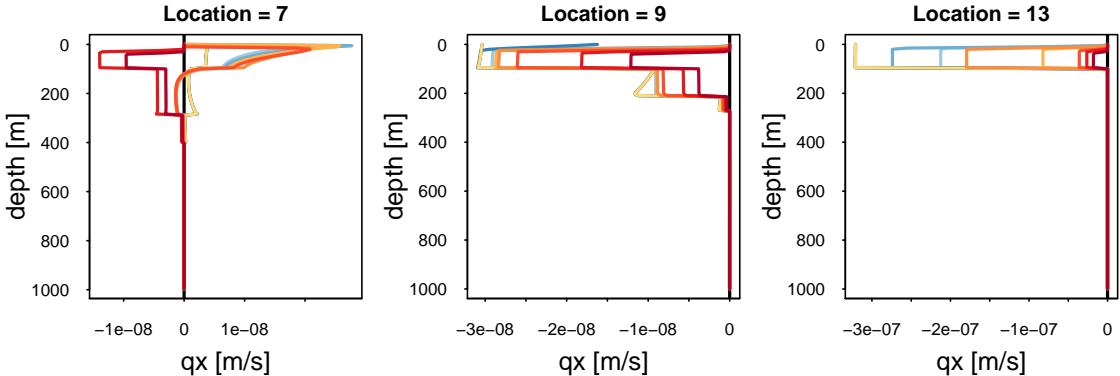
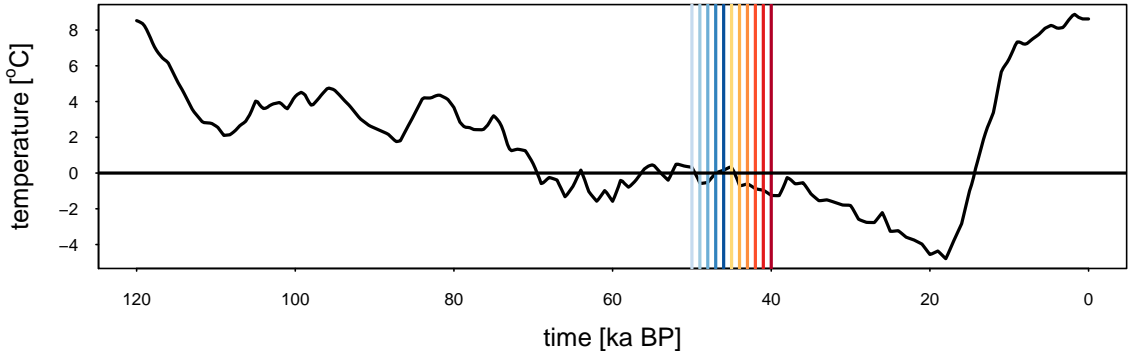




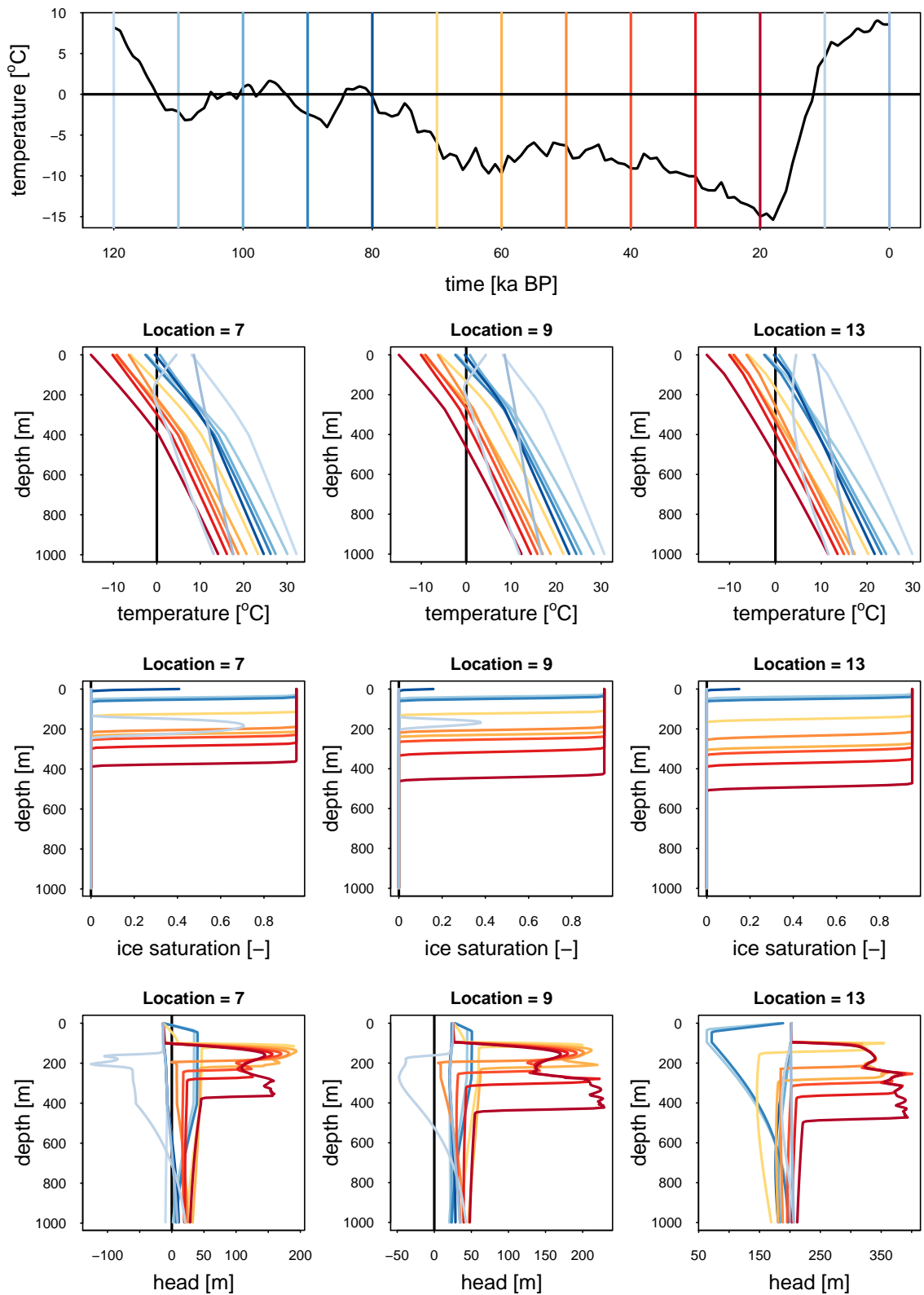




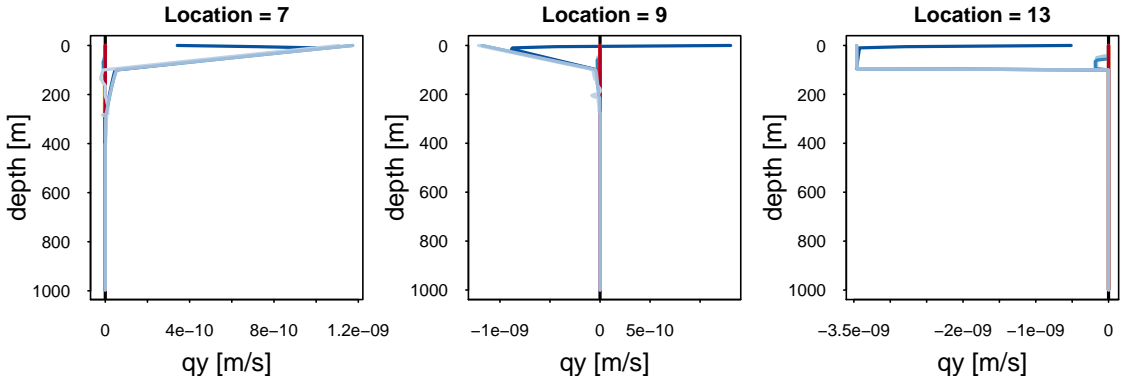
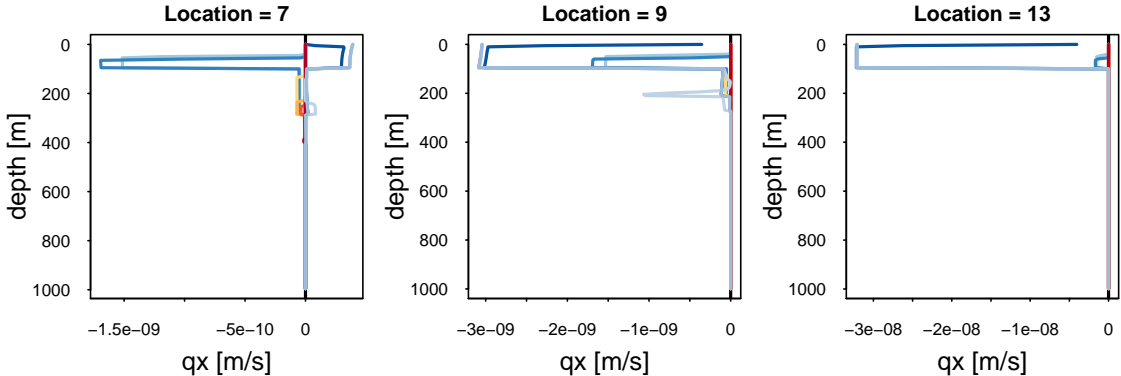
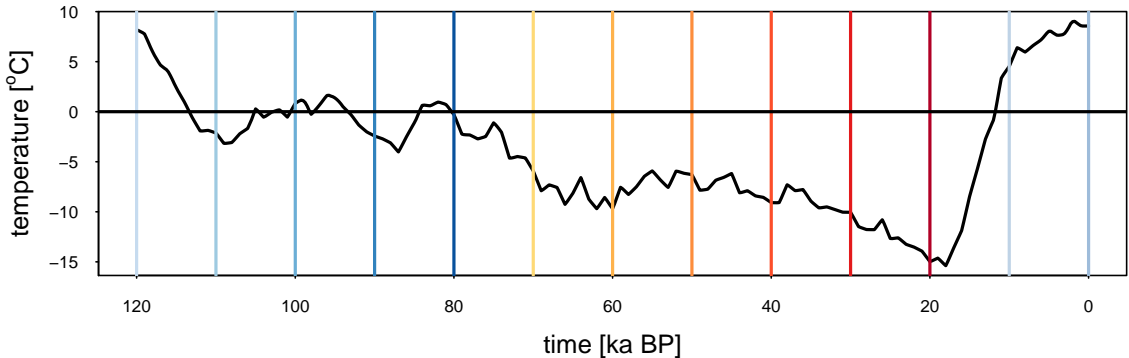




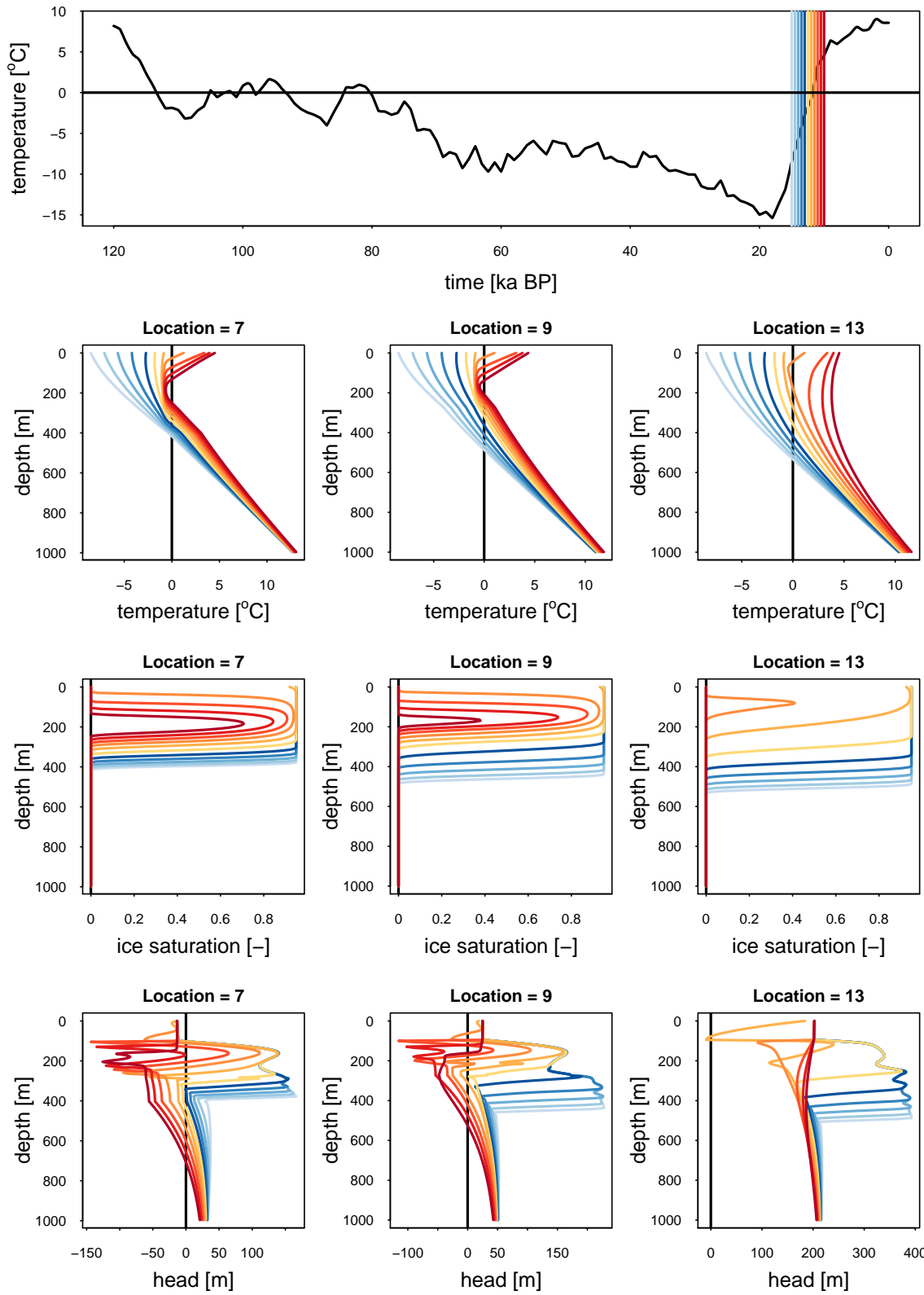
1.2.4 Run T-25_Min

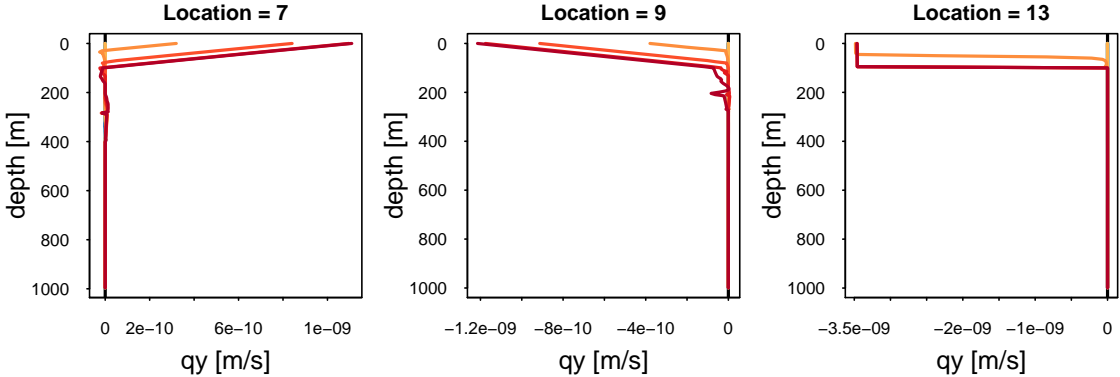
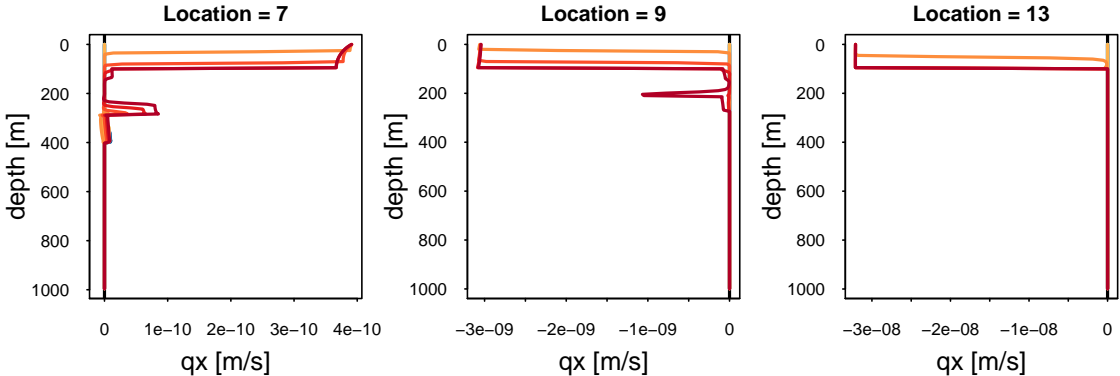
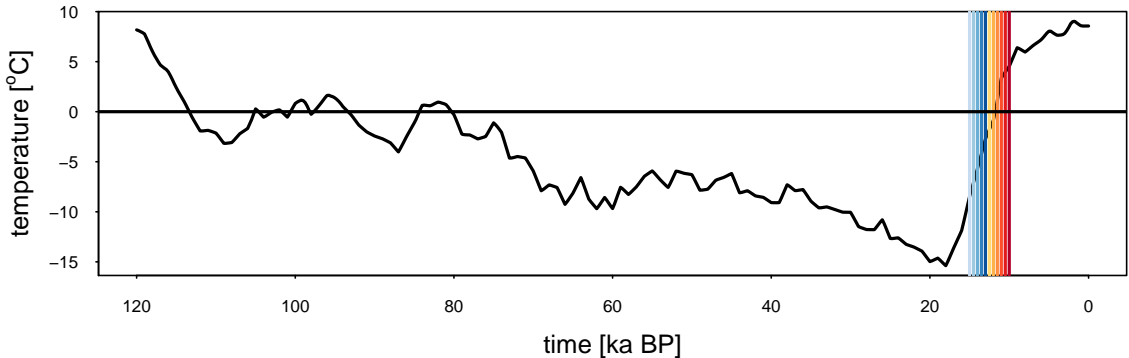


T-25_Min

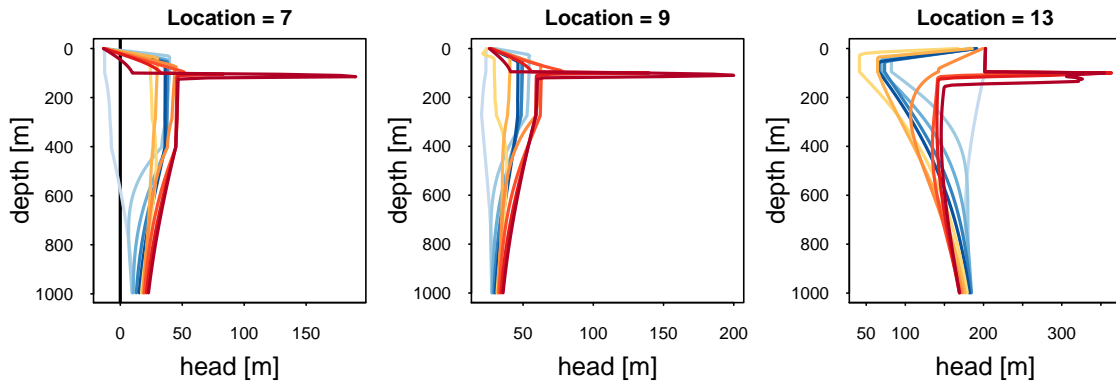
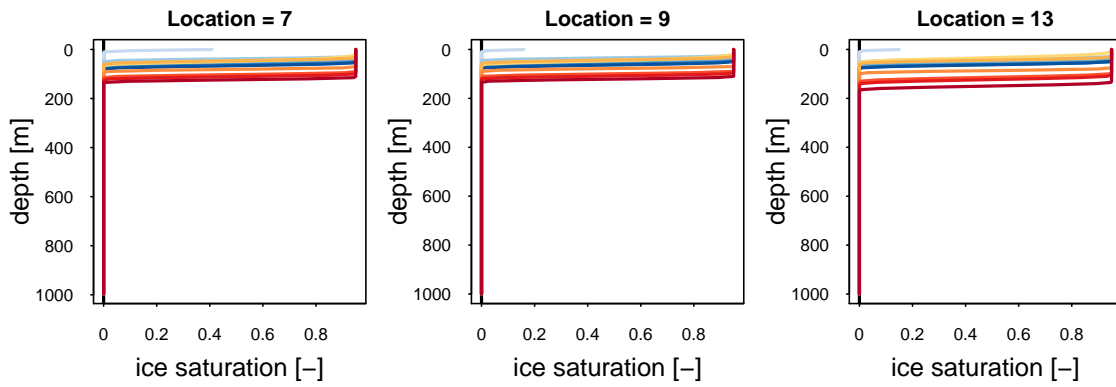
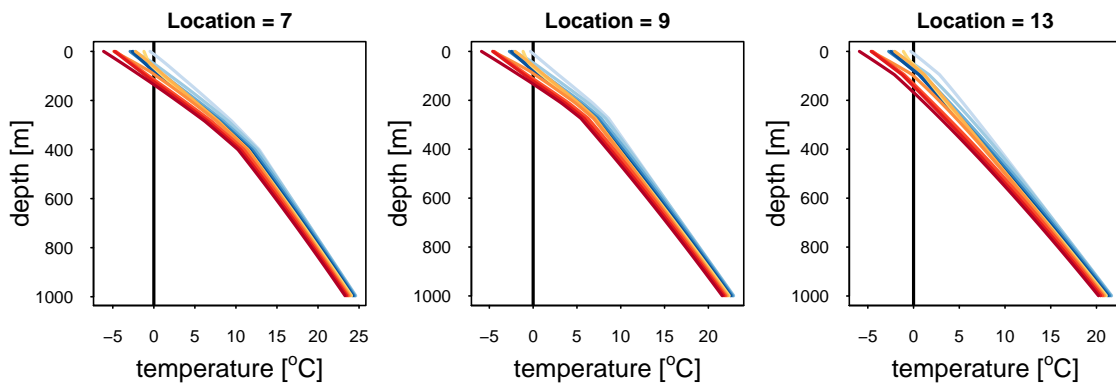
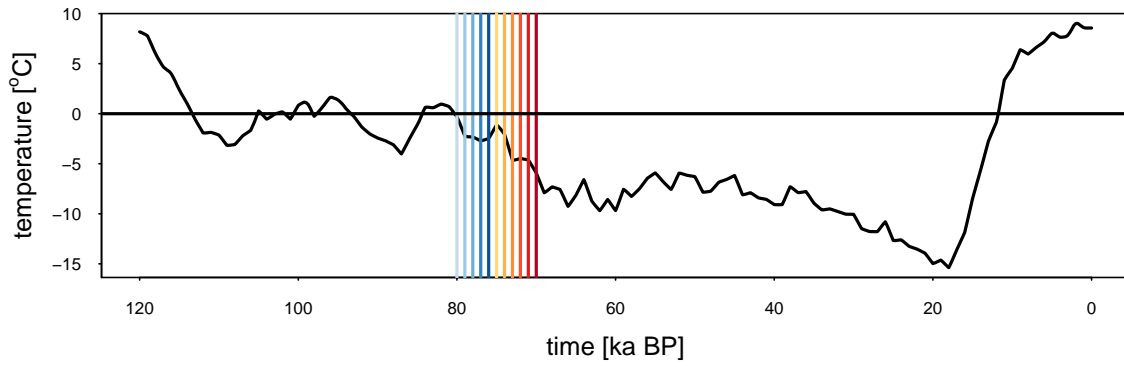


T-25_Min

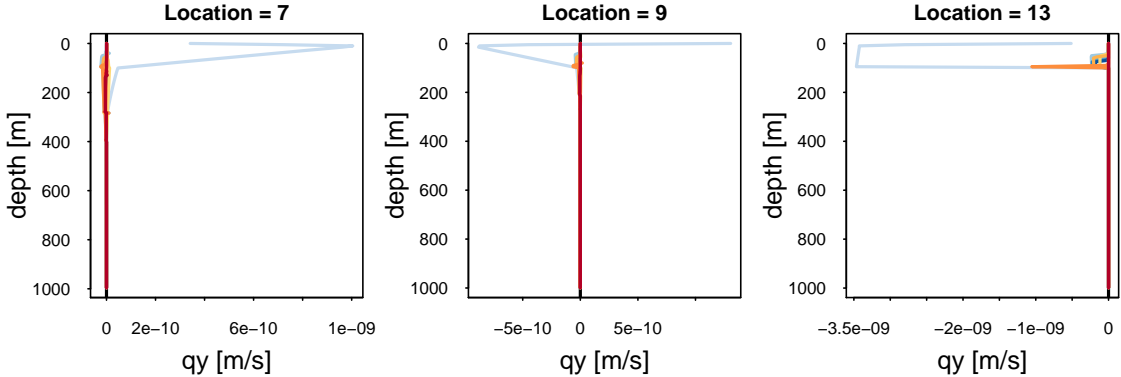
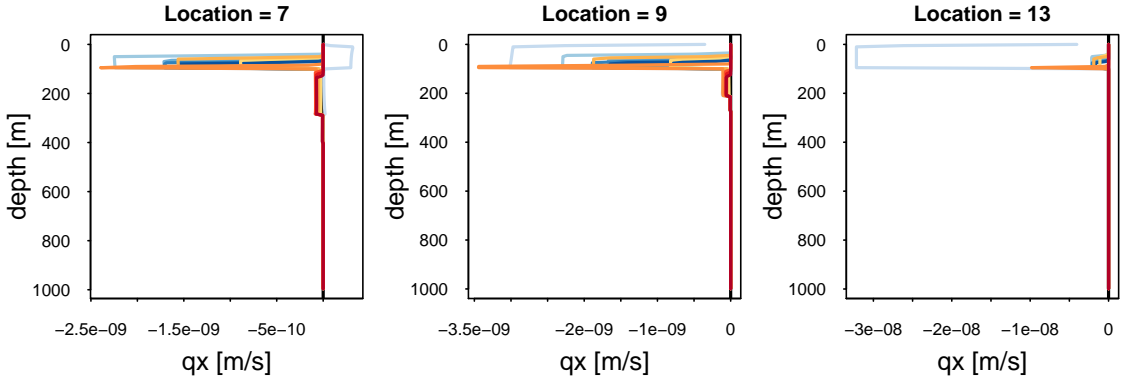
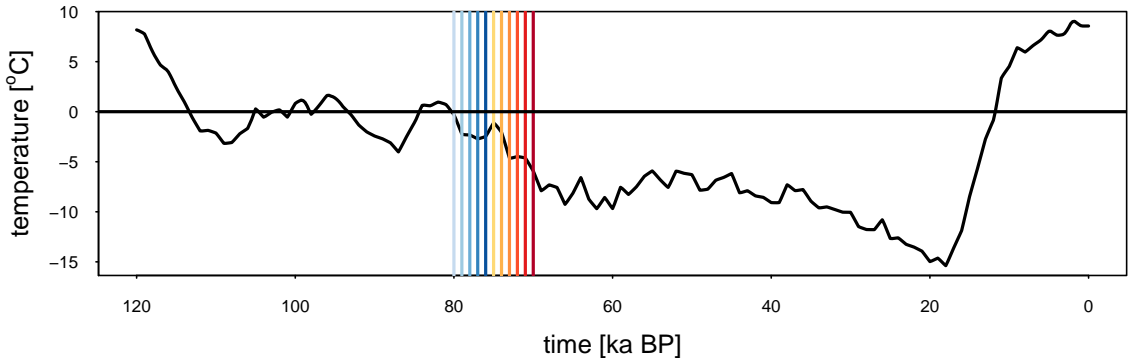




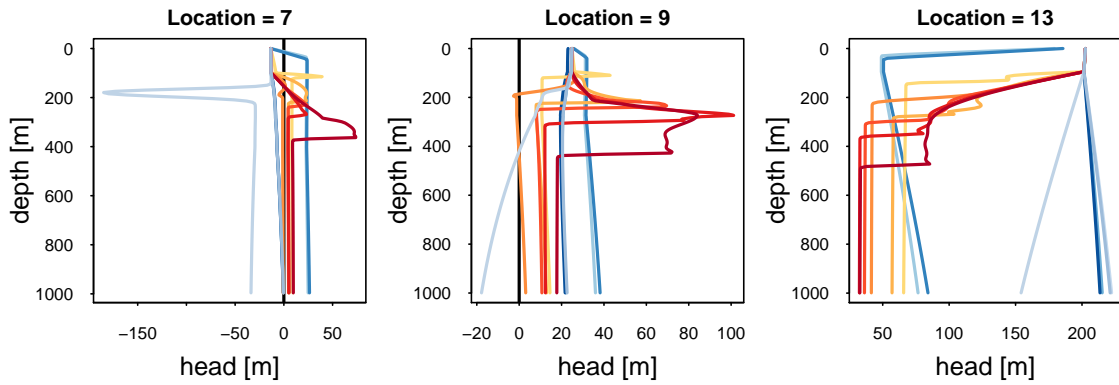
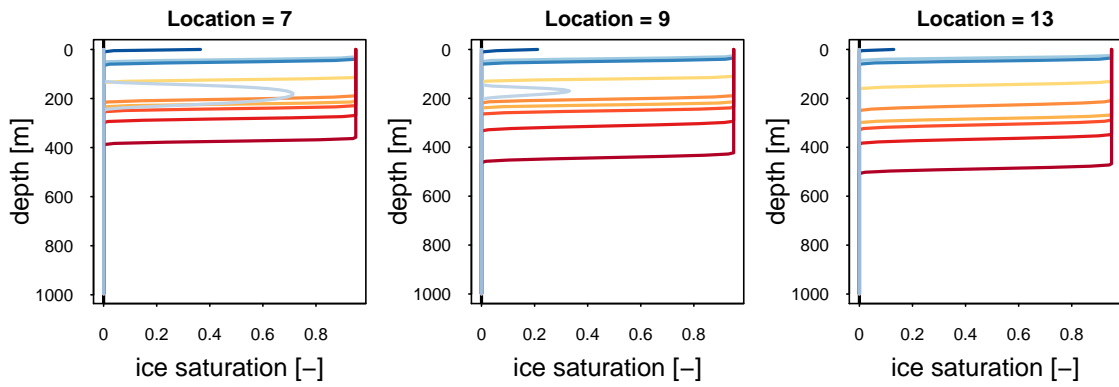
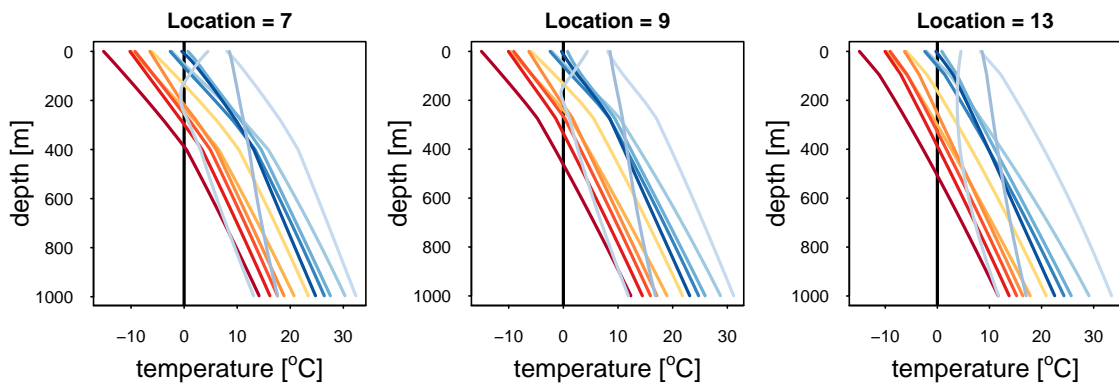
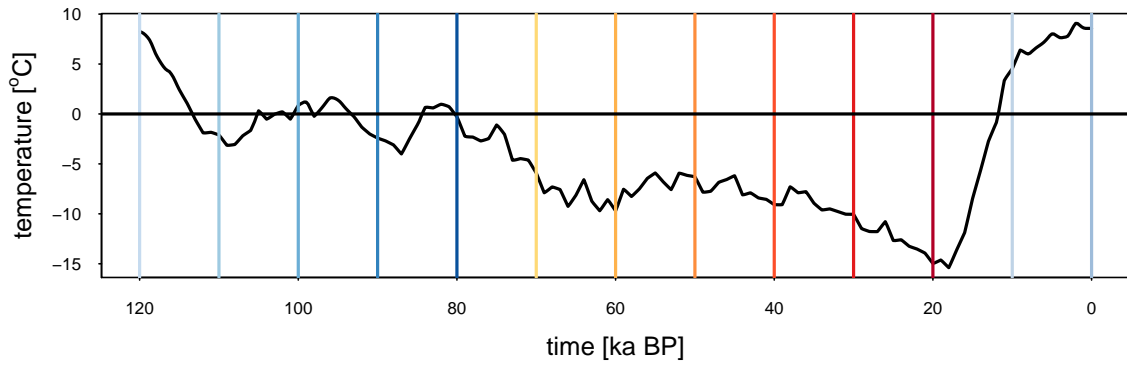
T-25_Min

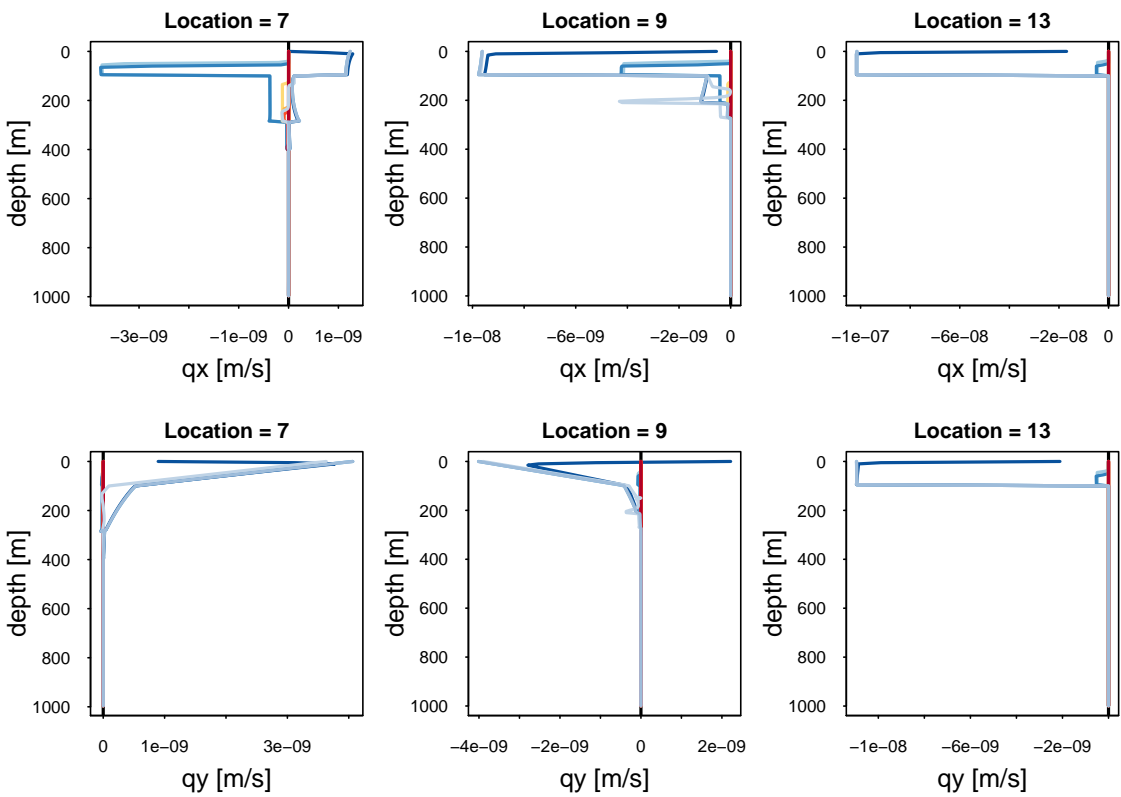
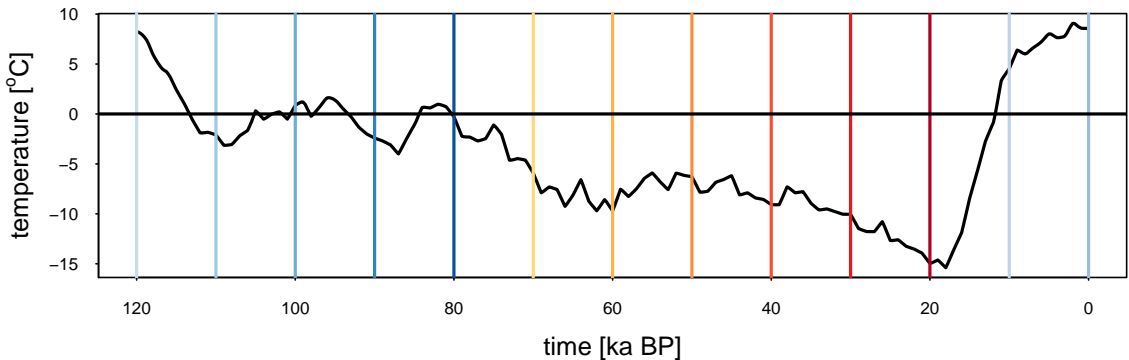


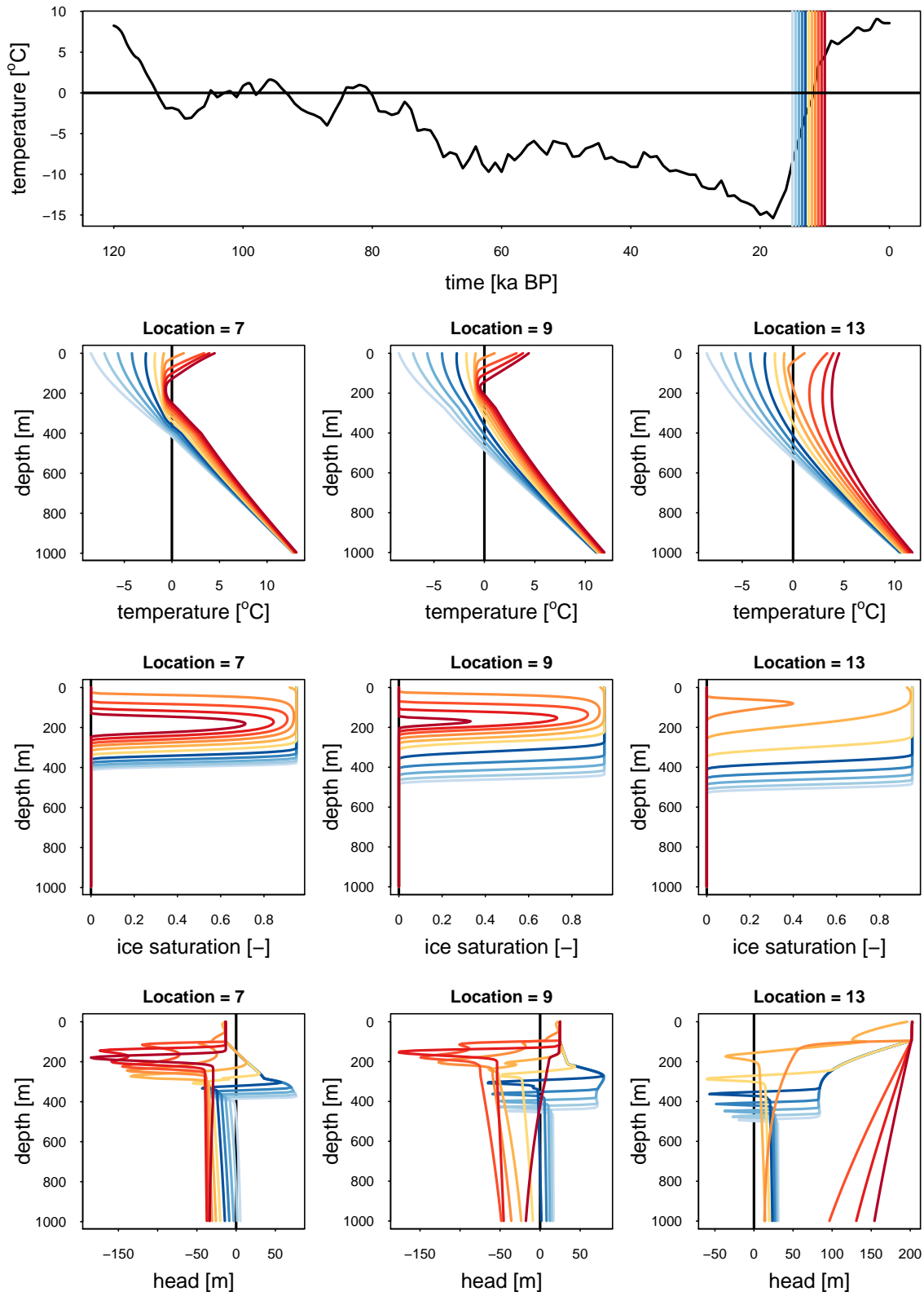
T-25_Min

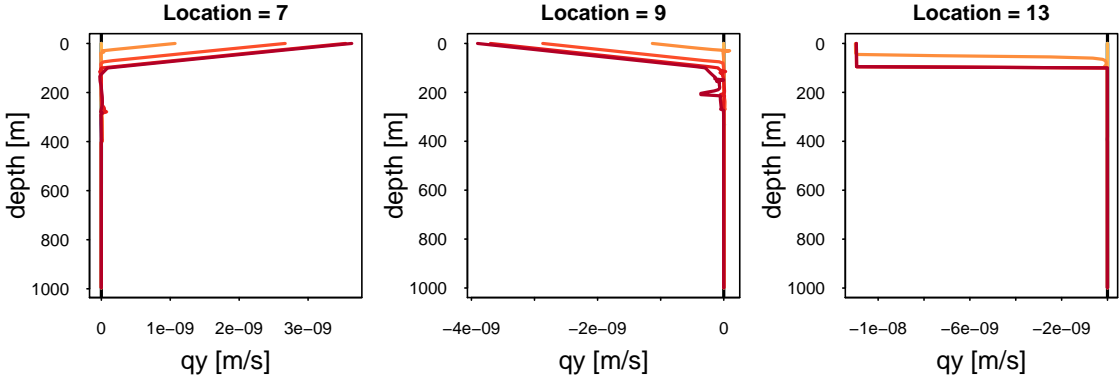
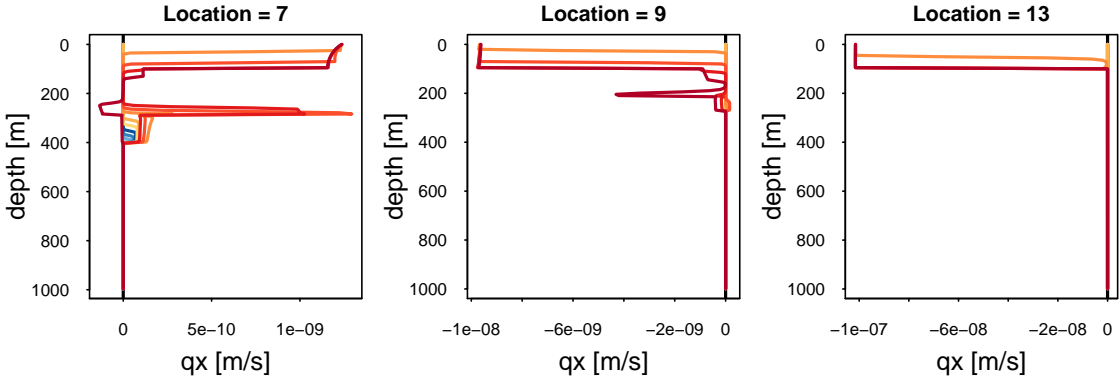
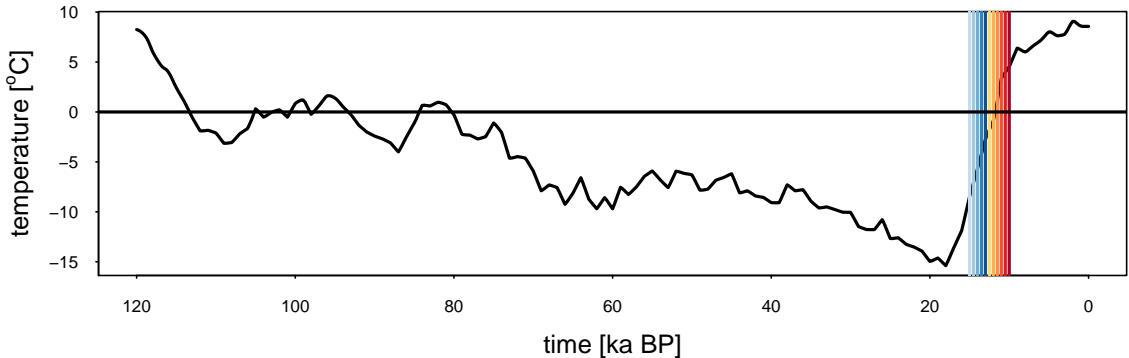


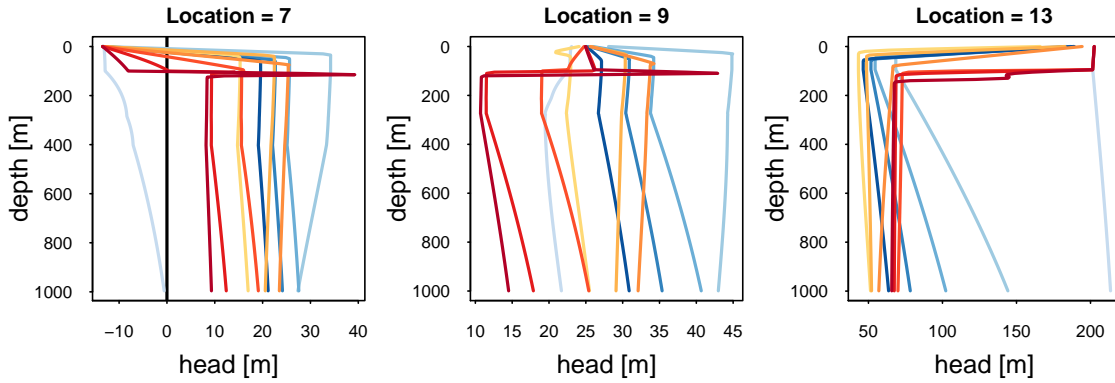
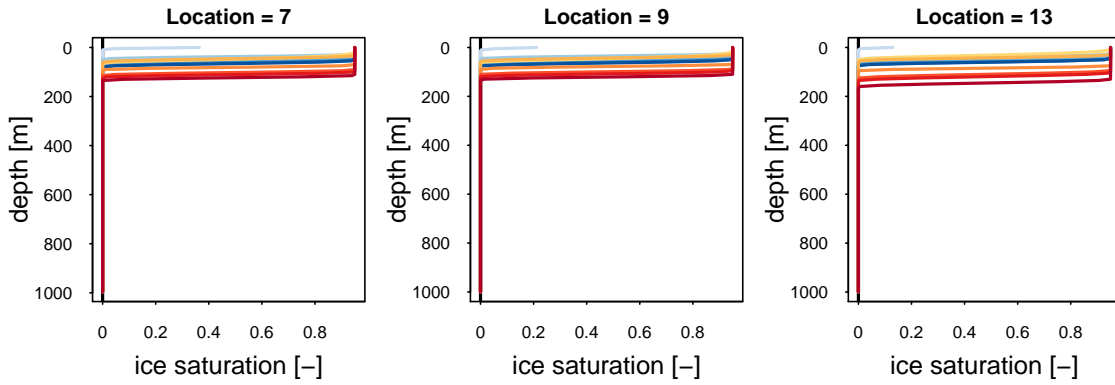
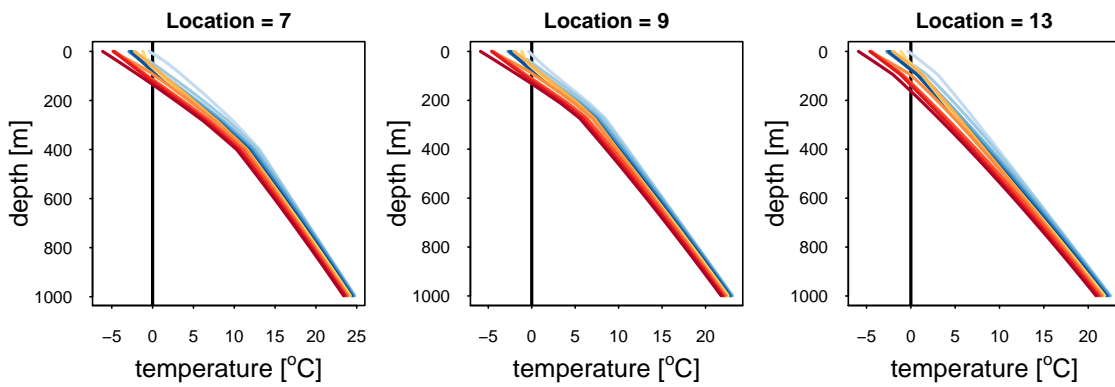
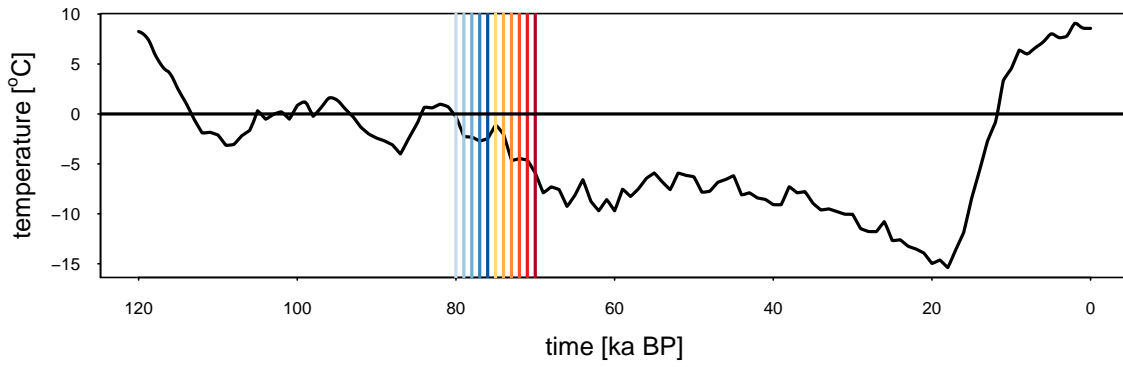
1.2.5 Run T-25_Med

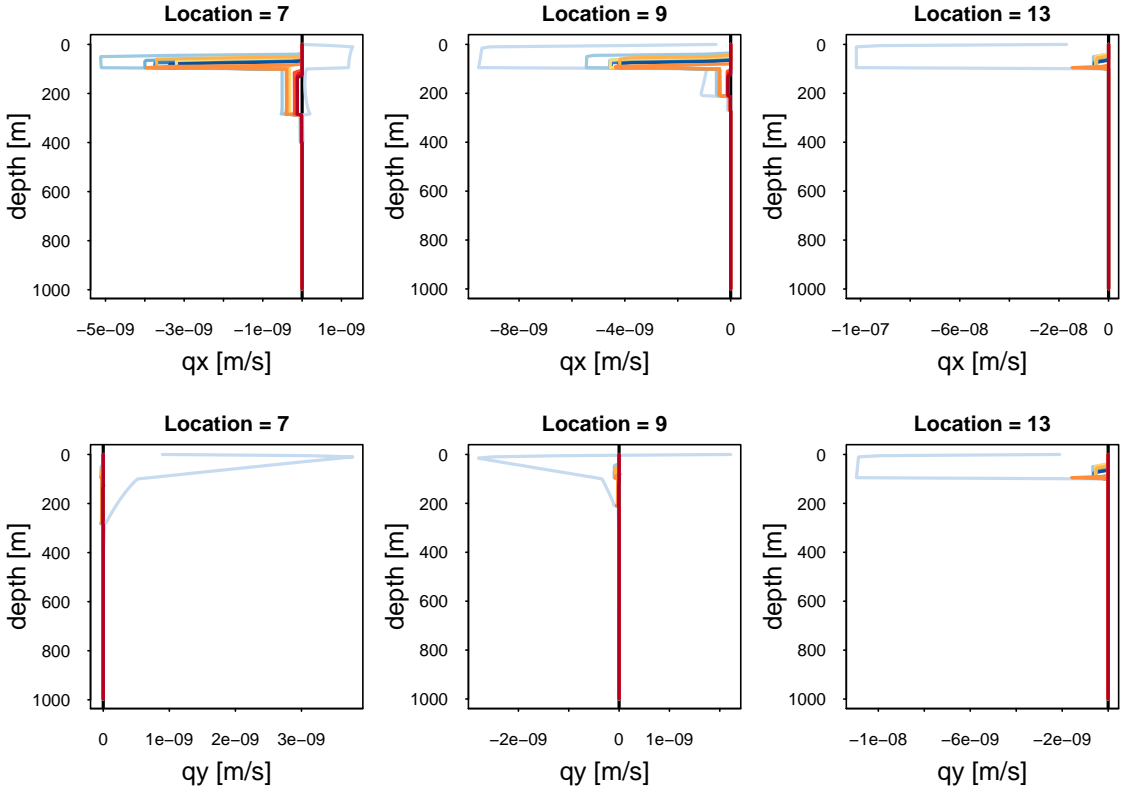
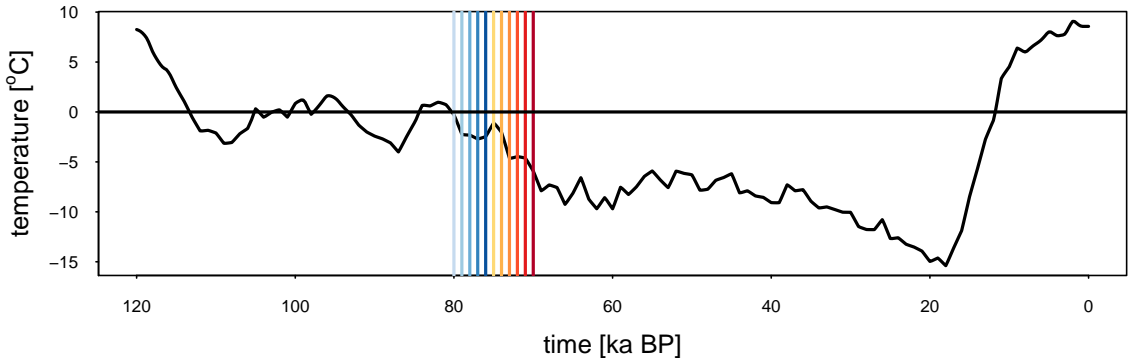




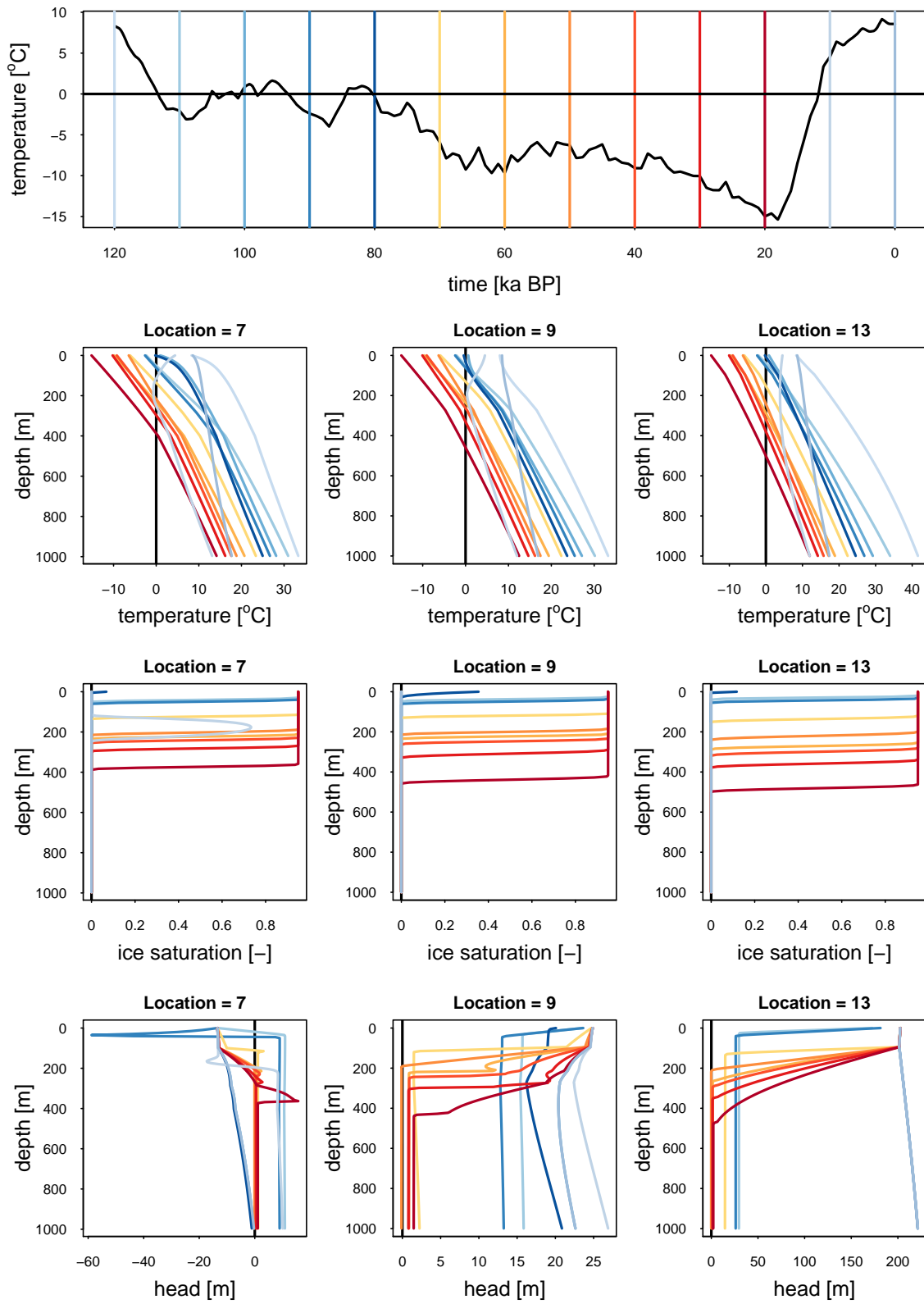


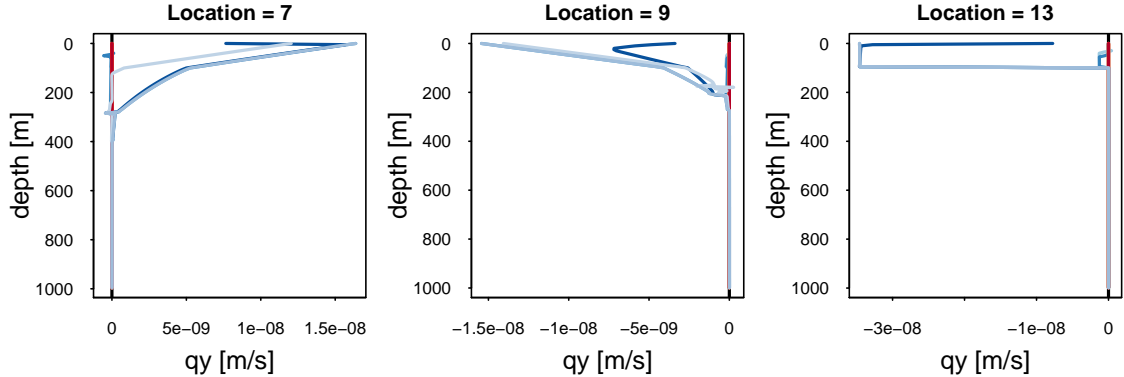
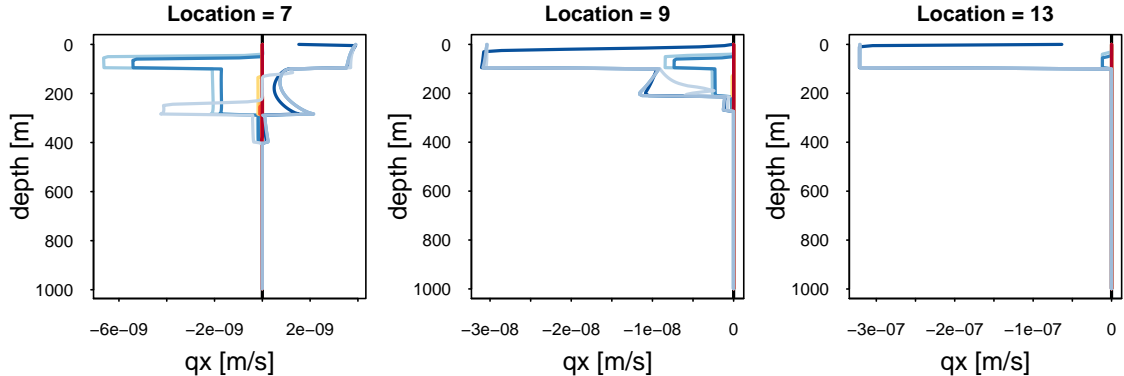
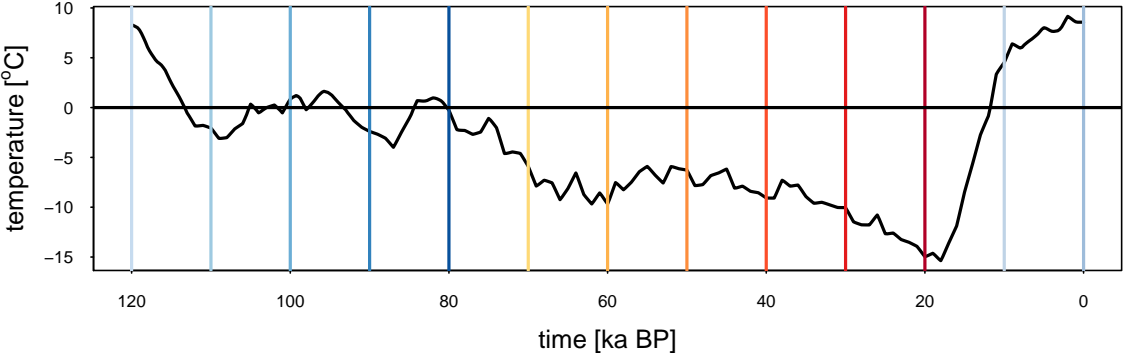


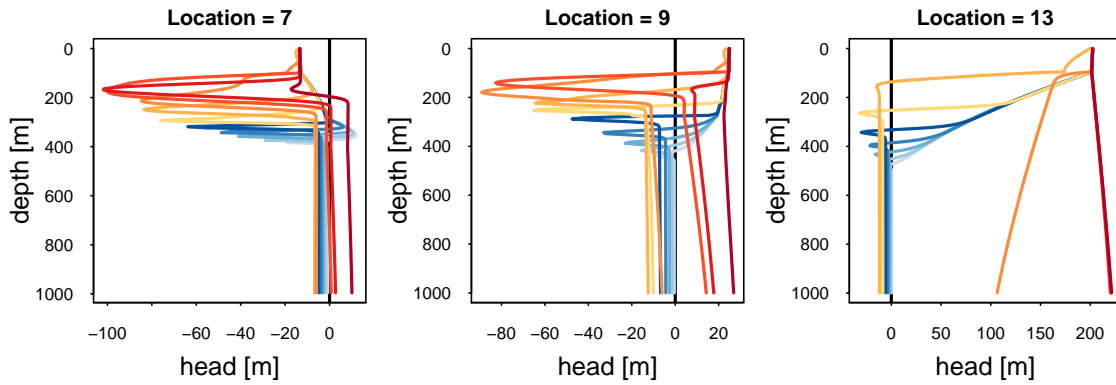
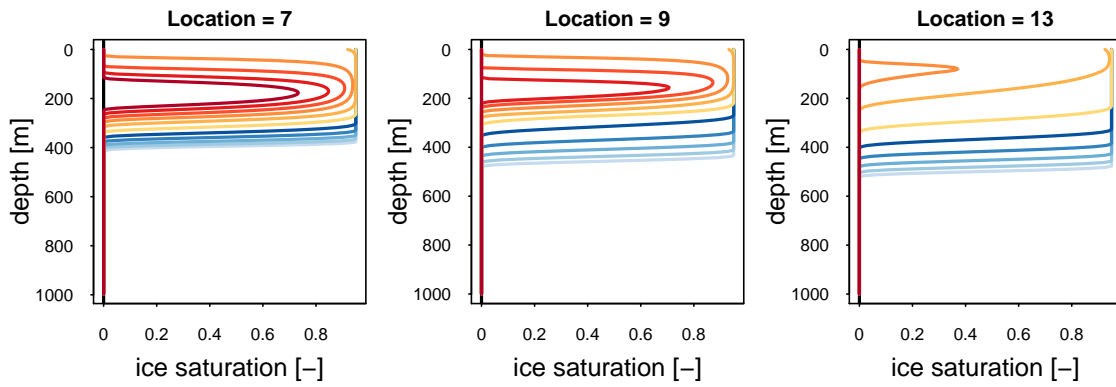
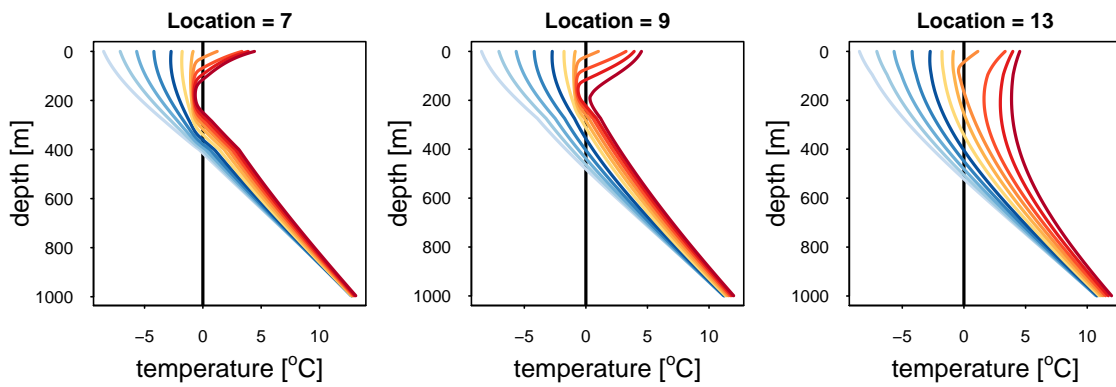
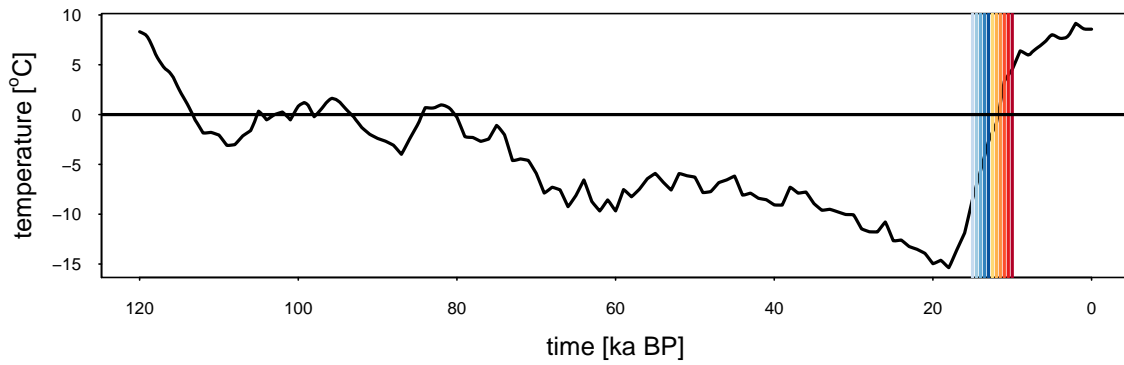


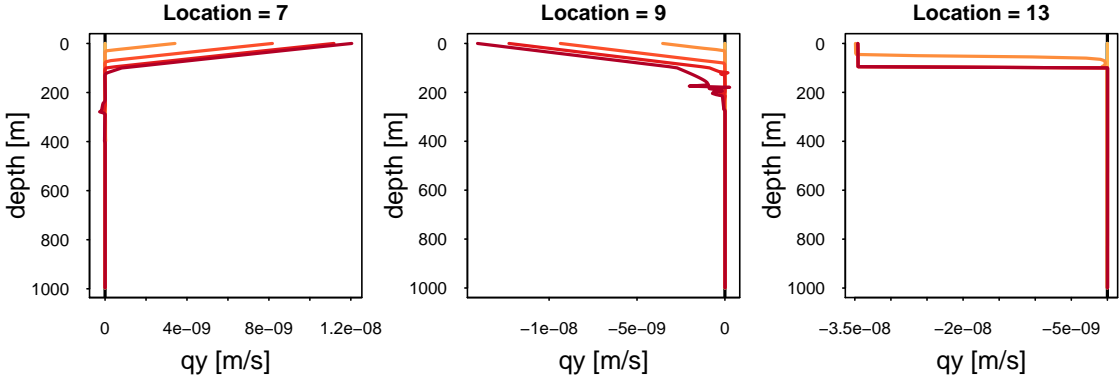
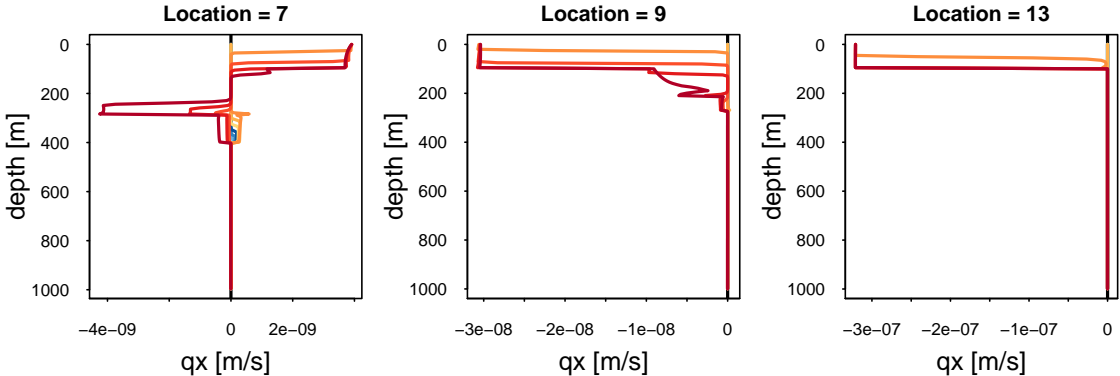
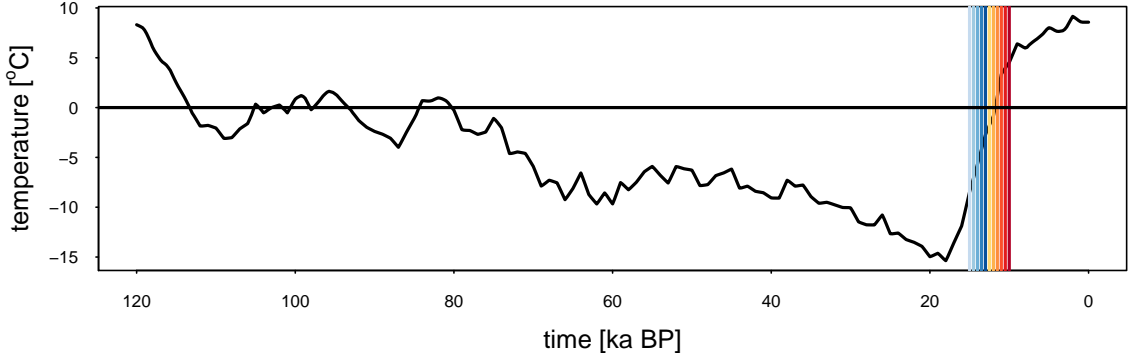


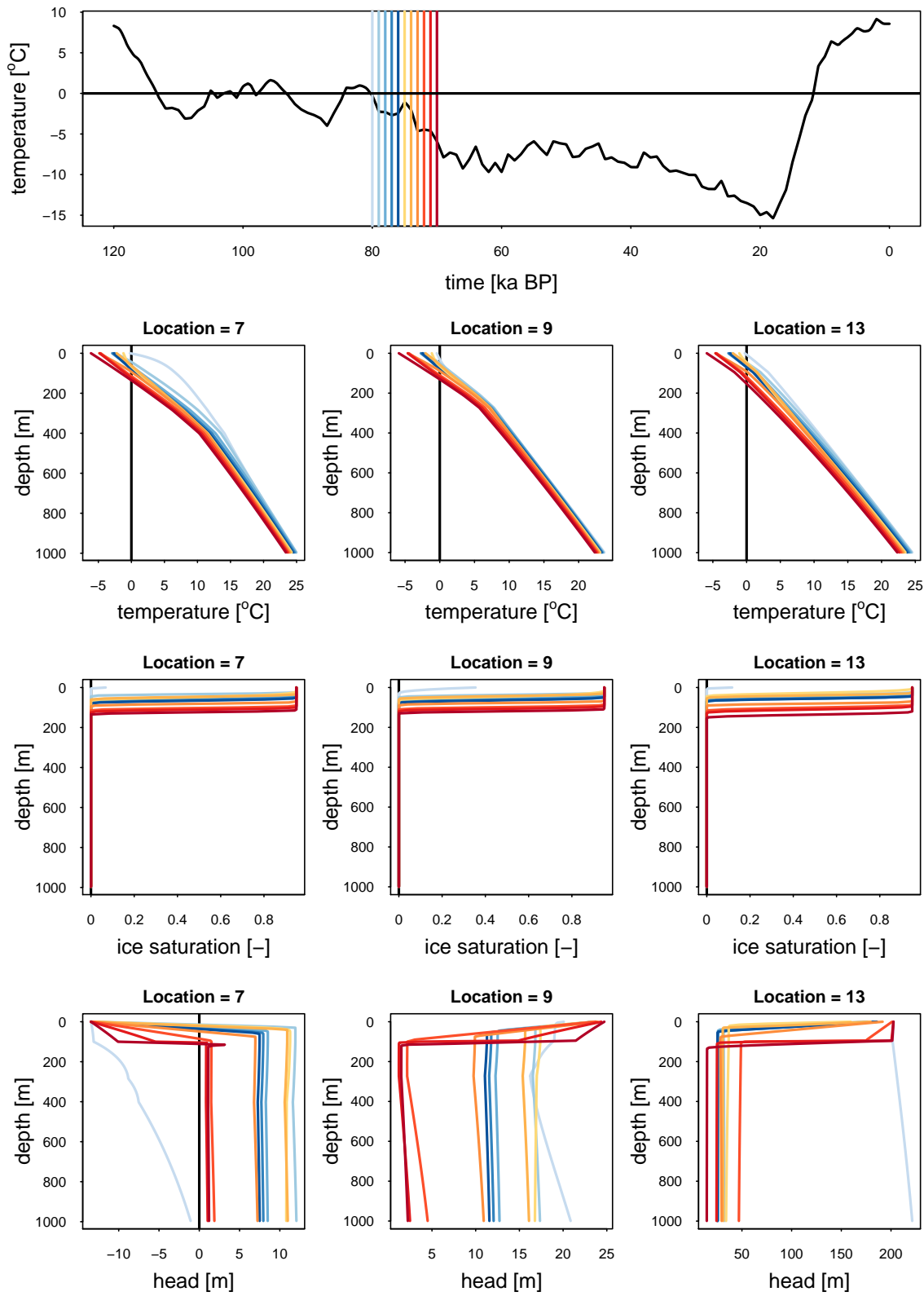
1.2.6 Run T-25_Max



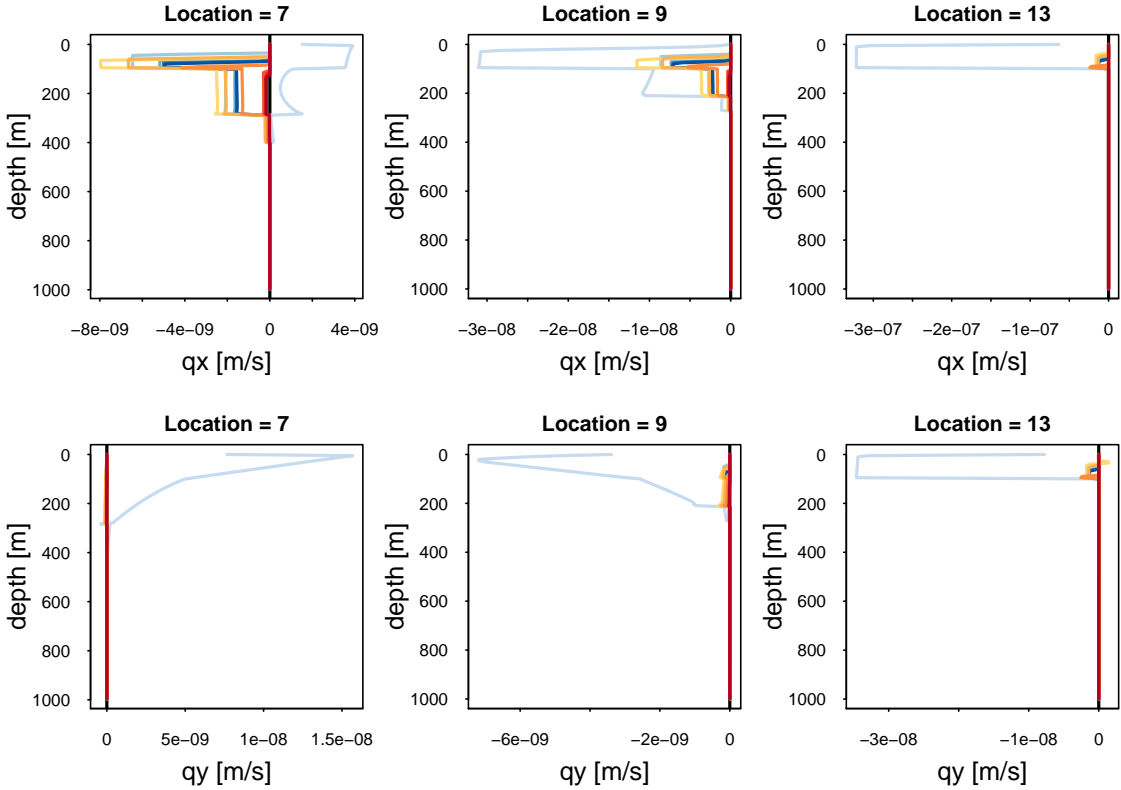
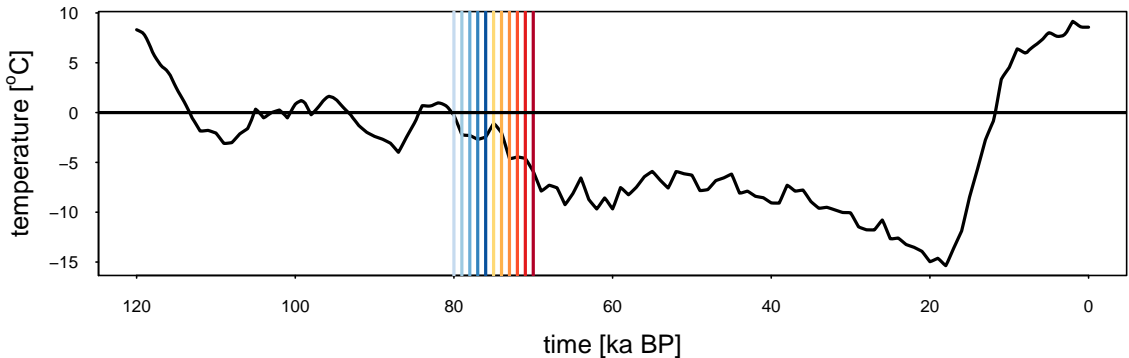




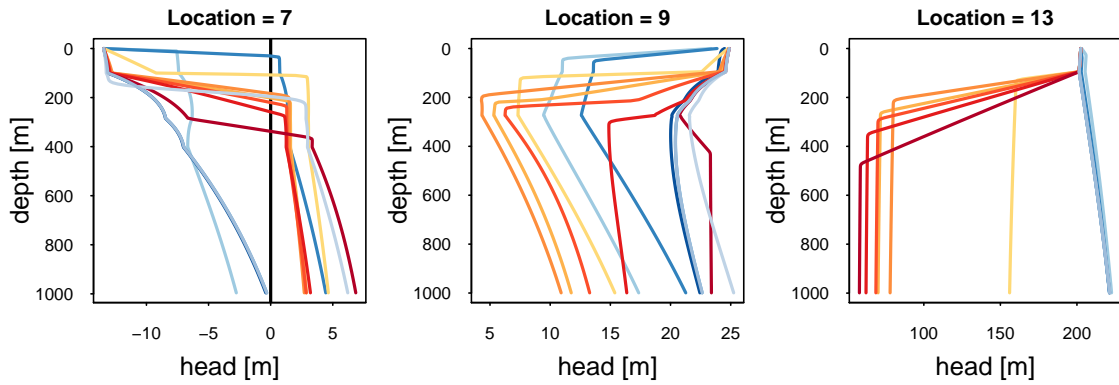
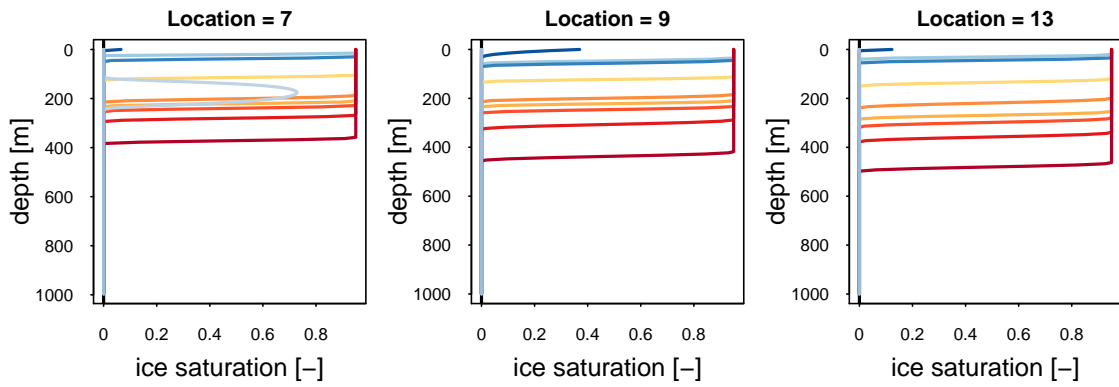
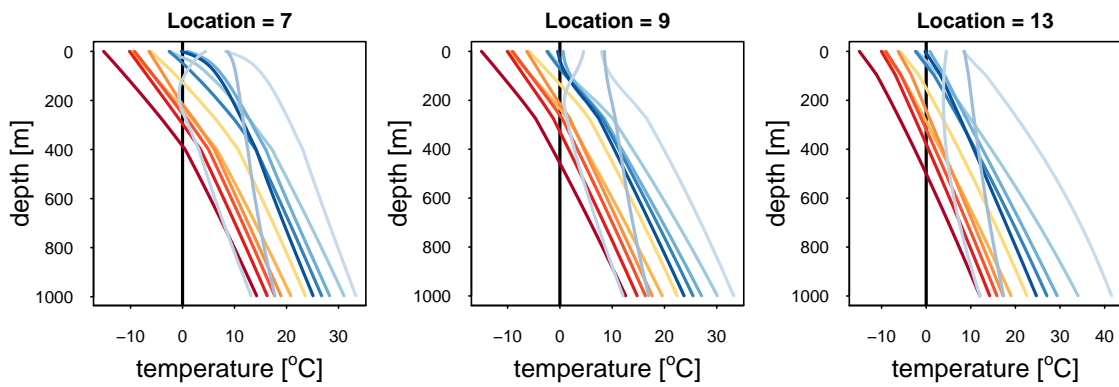
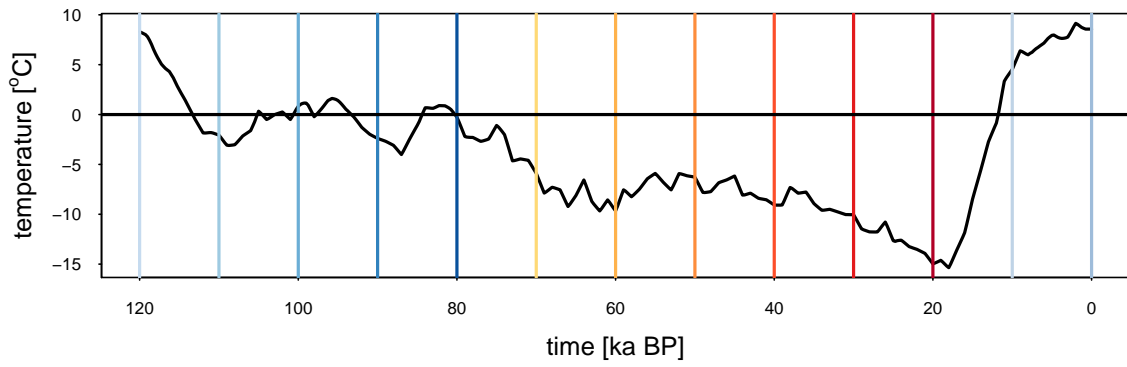


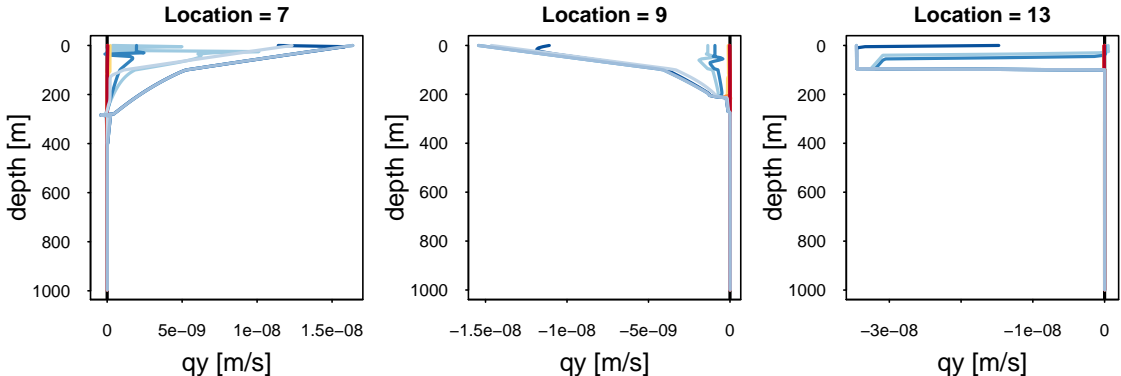
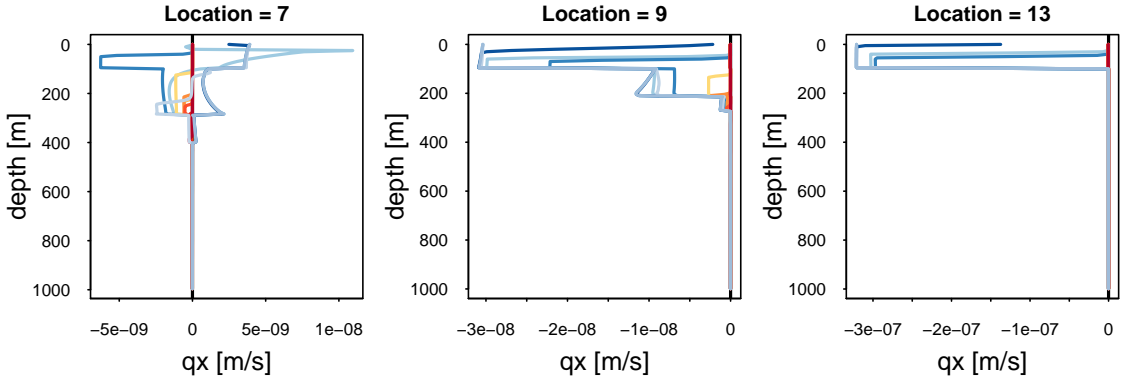
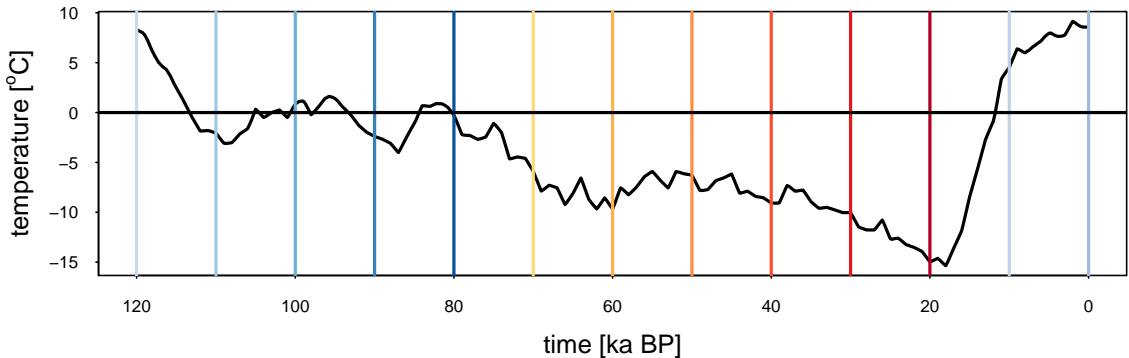


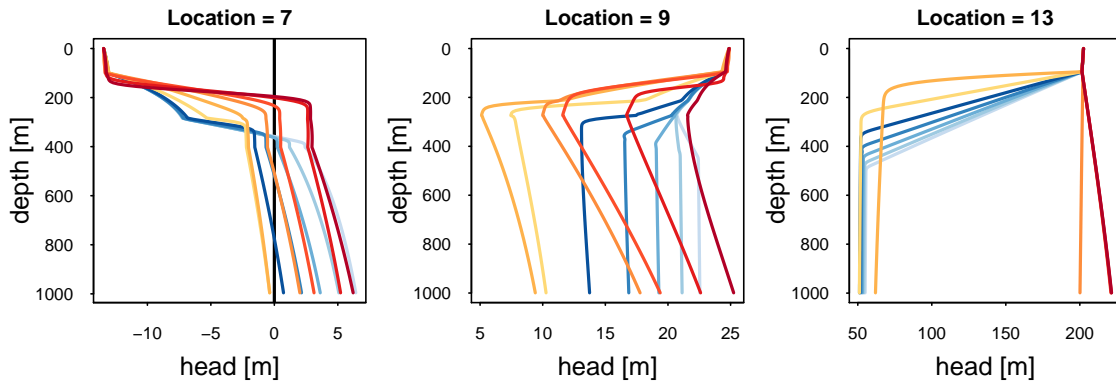
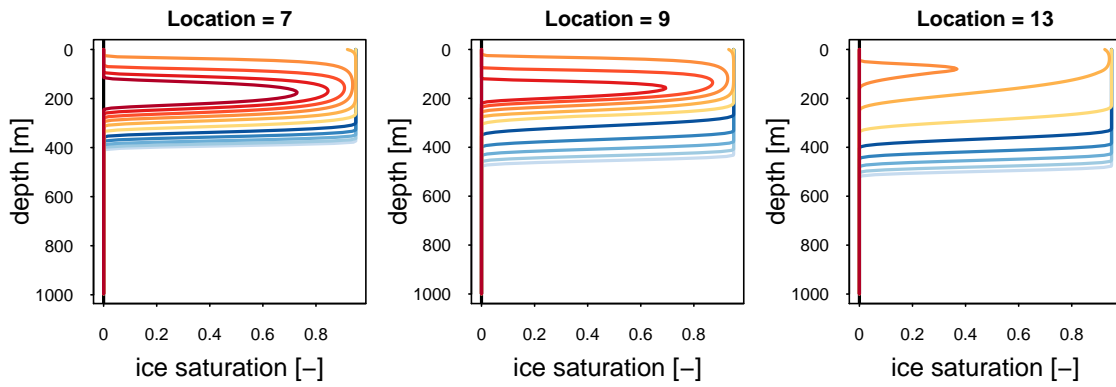
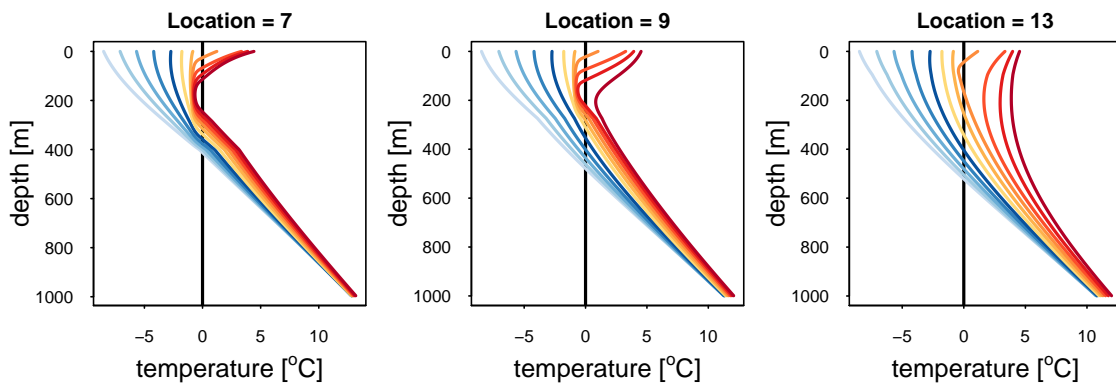
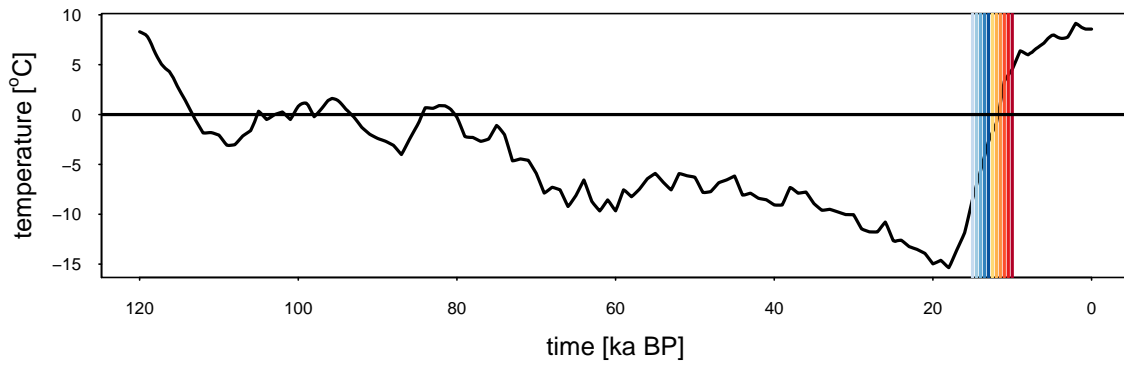
T-25_Max

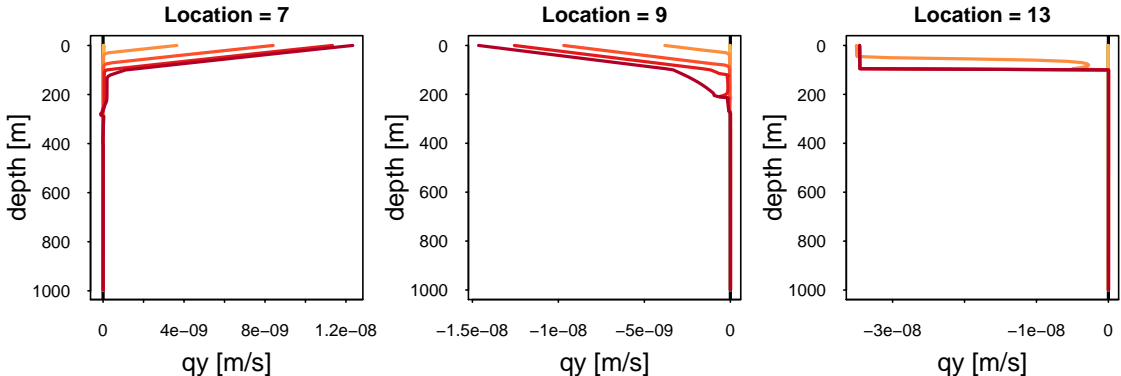
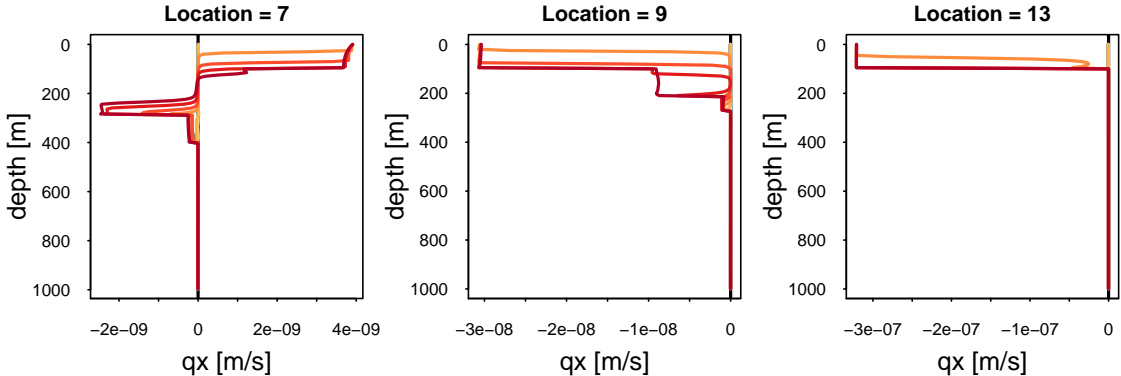
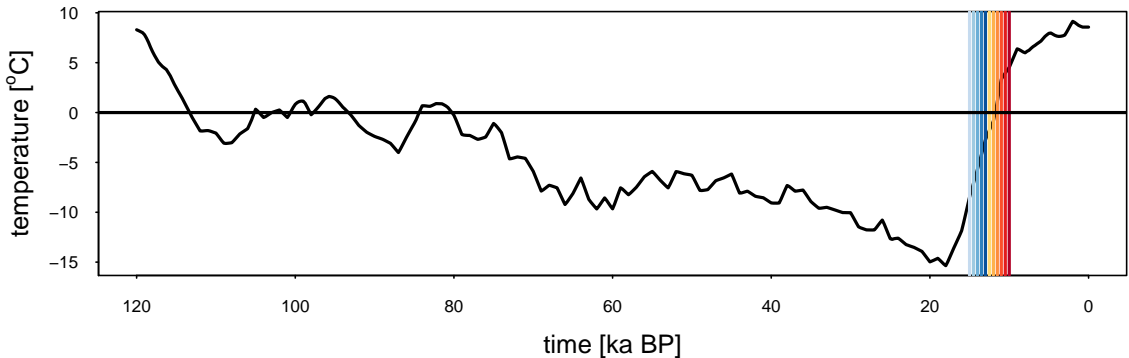


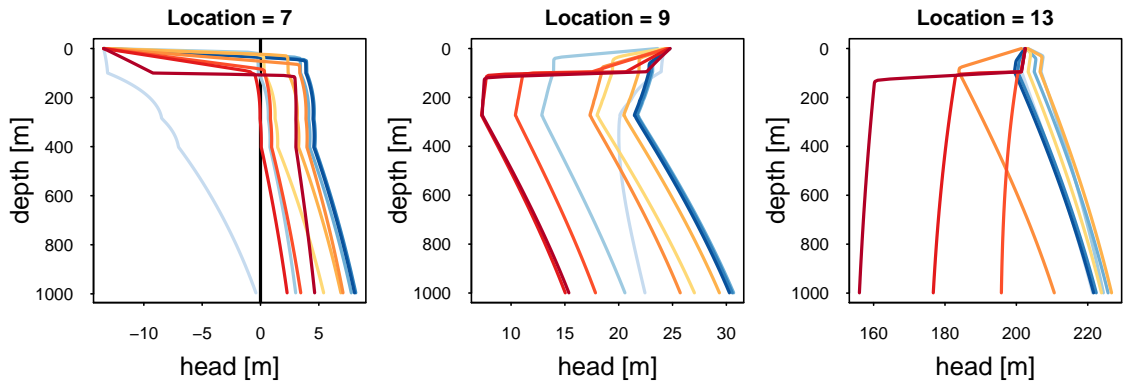
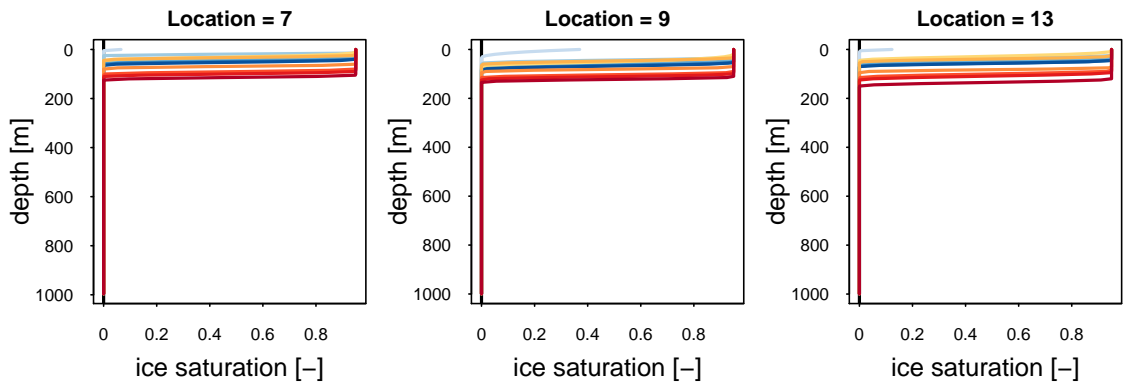
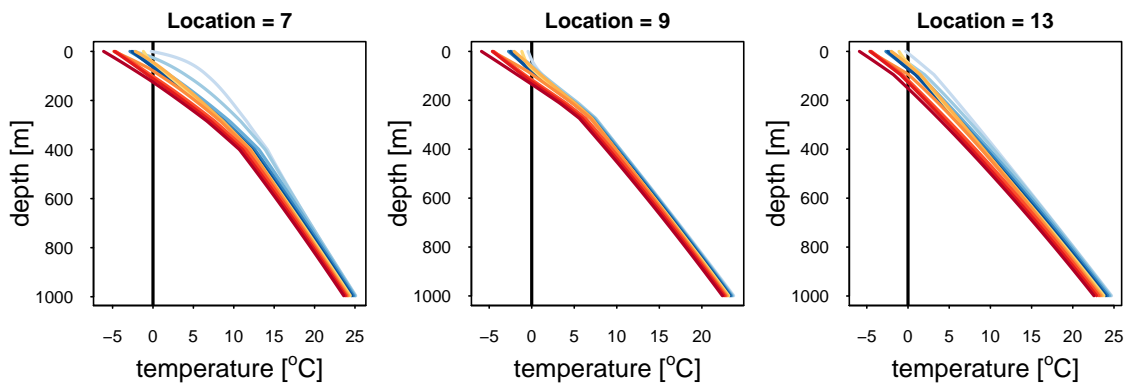
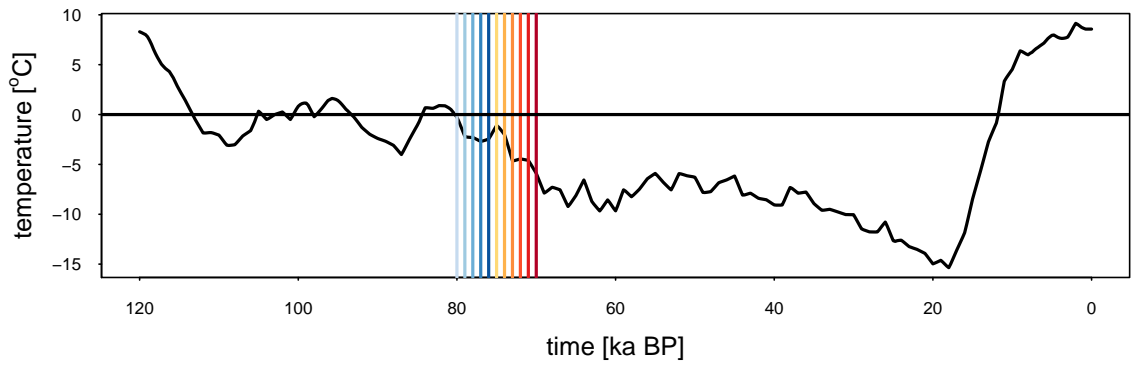
1.2.7 Run T-25_Max_Omega3

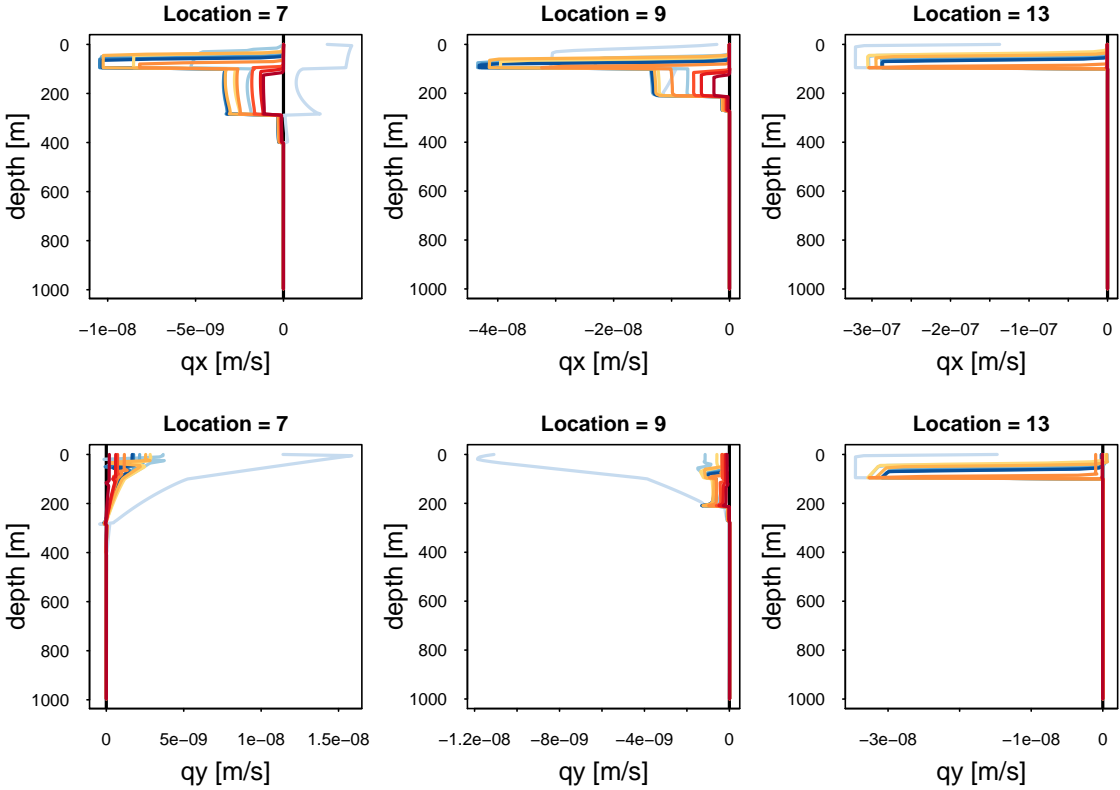
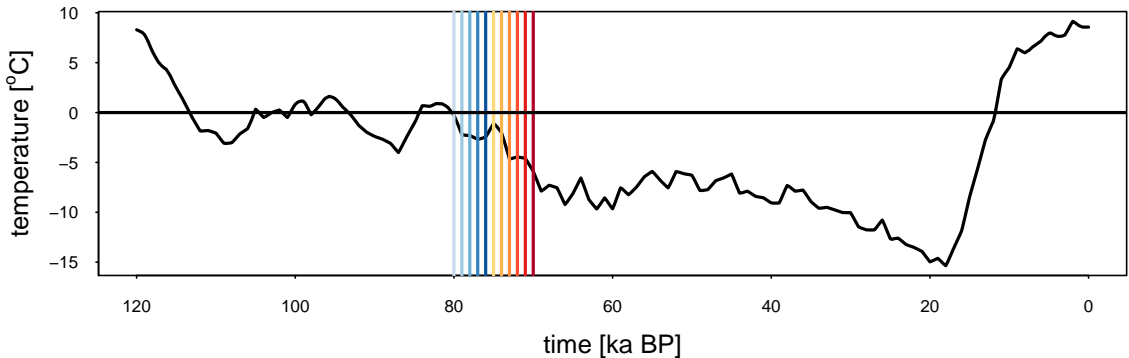




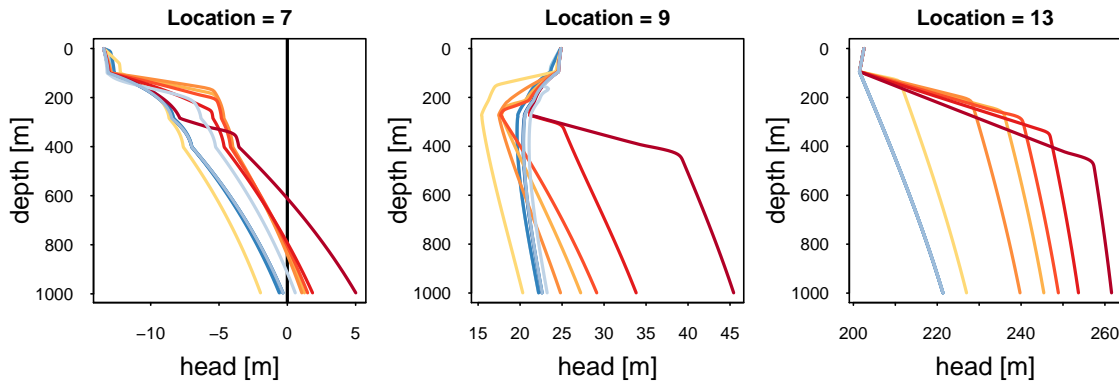
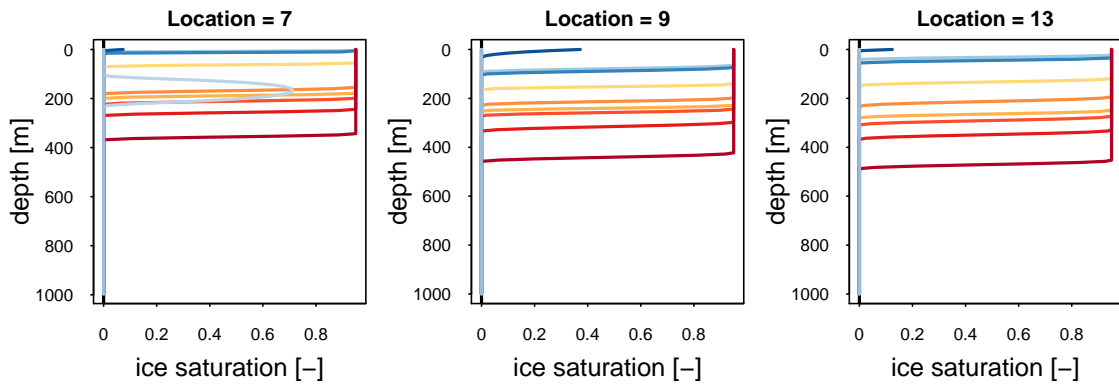
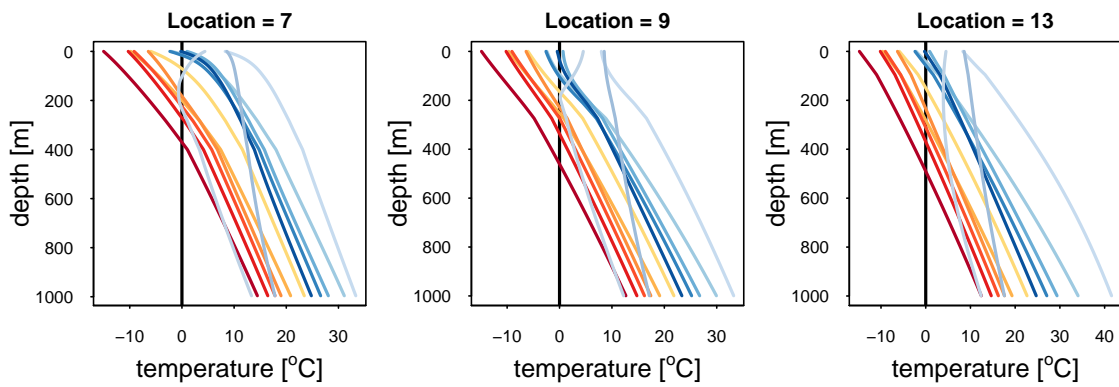
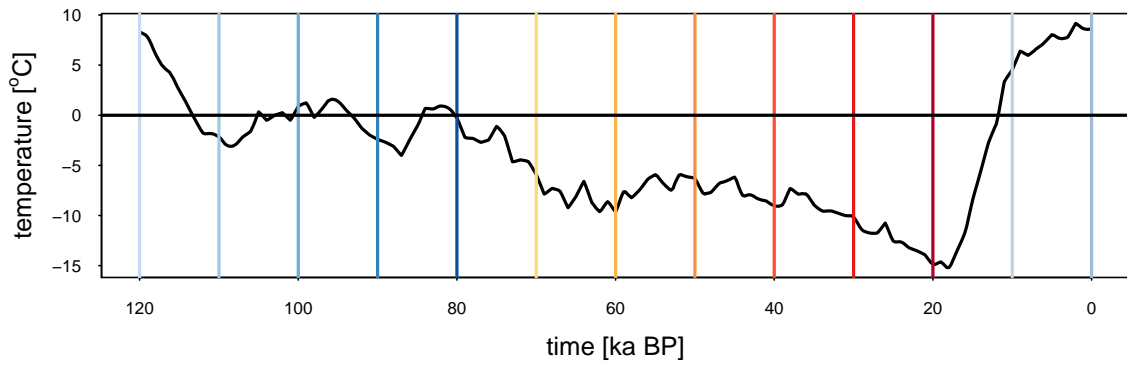


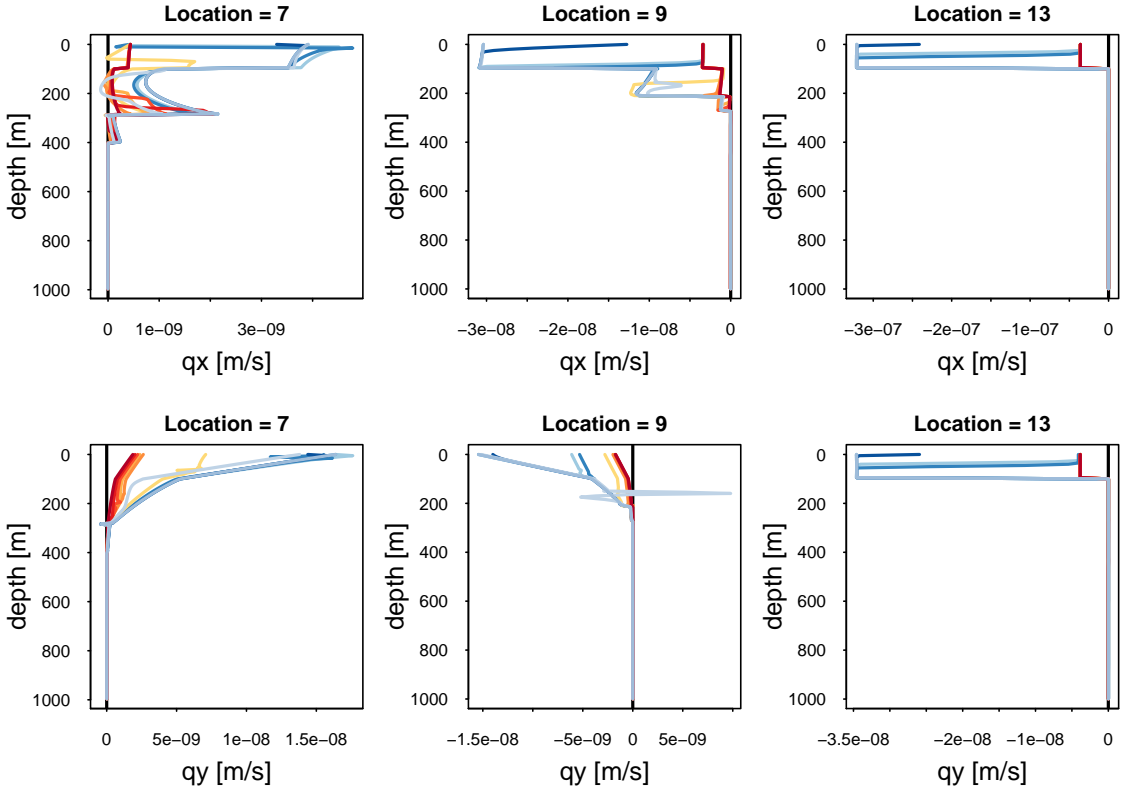
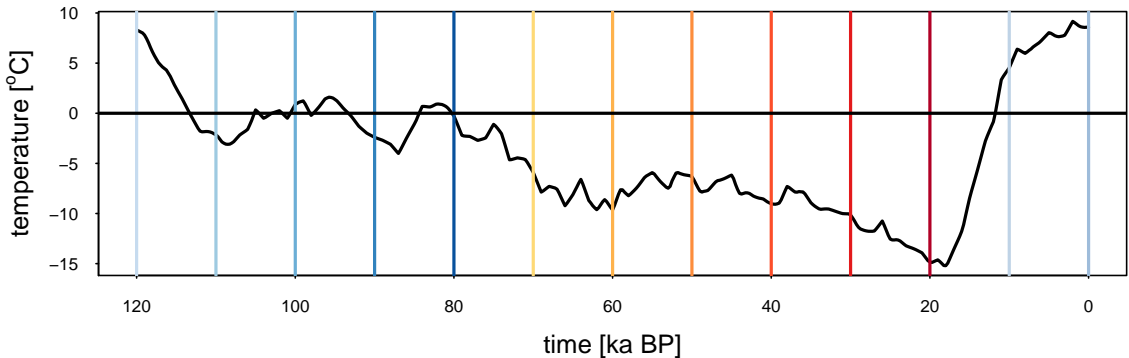


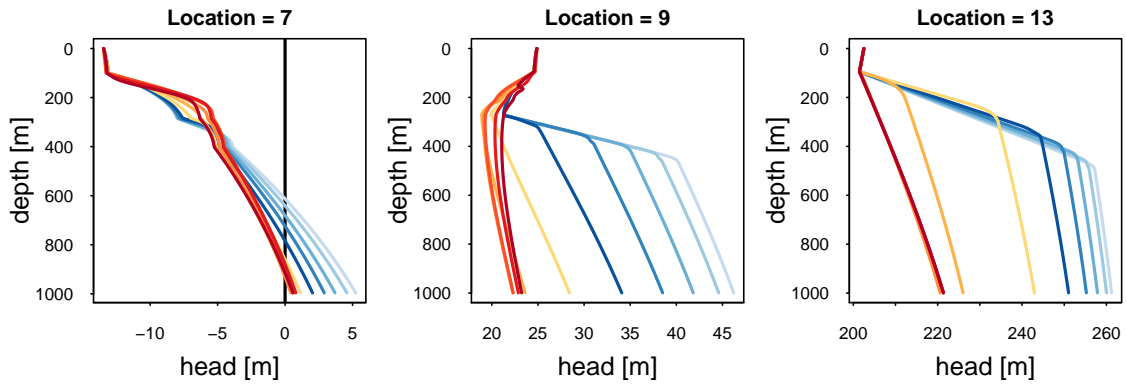
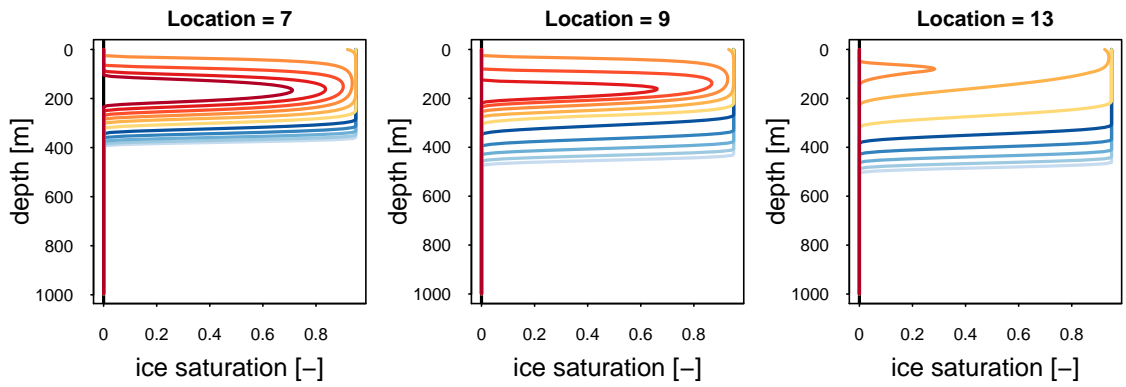
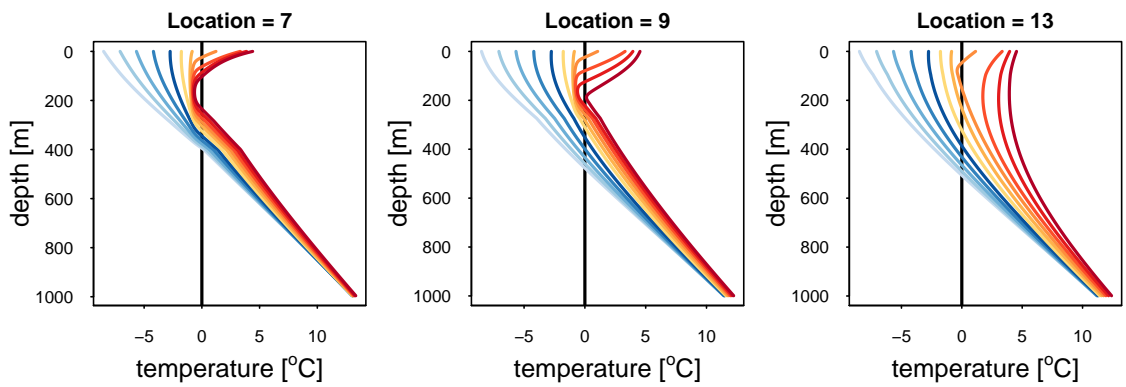
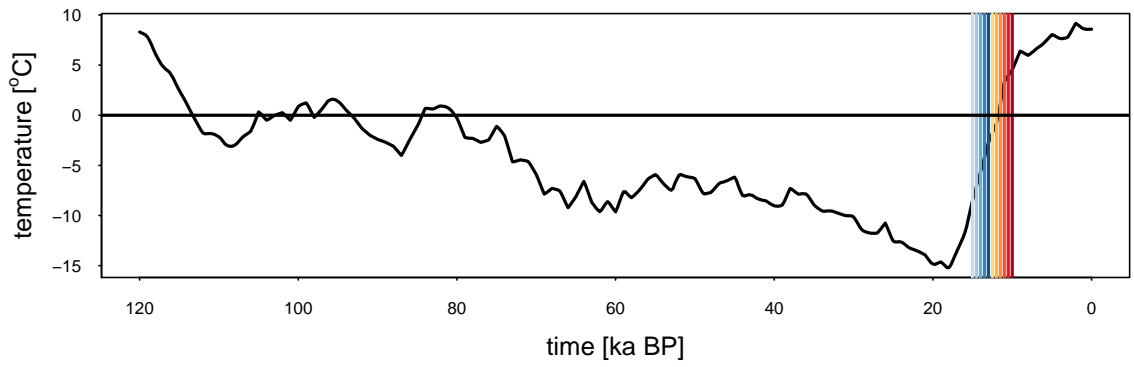


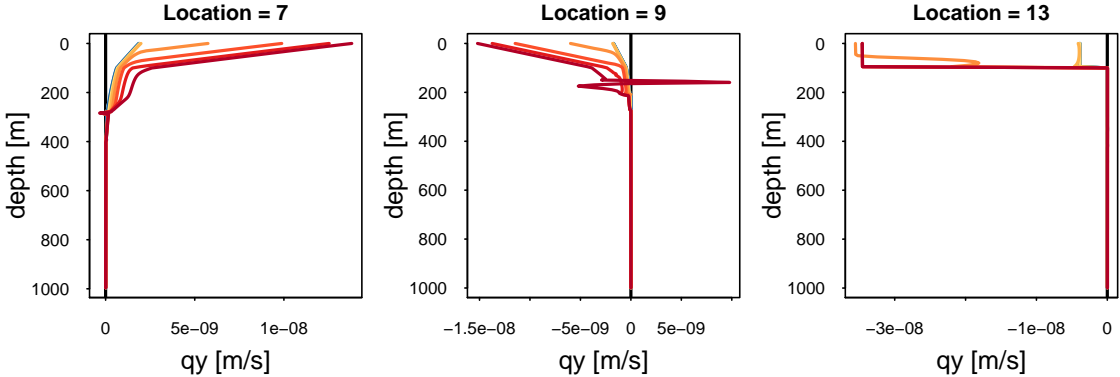
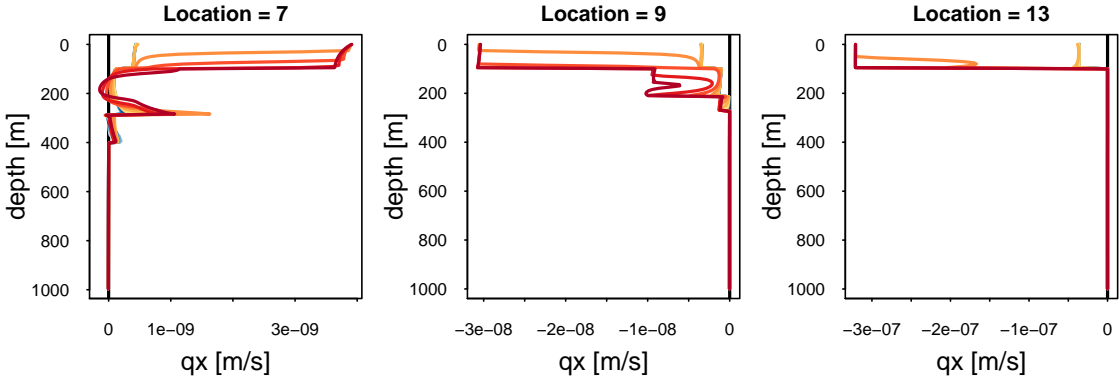
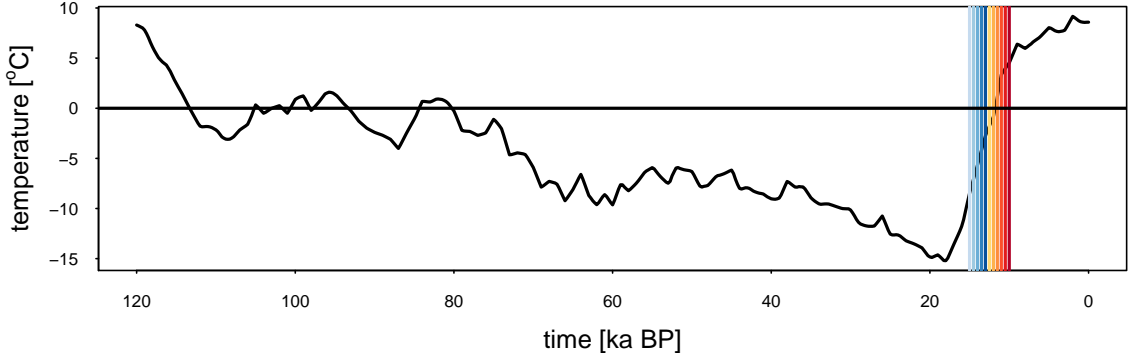


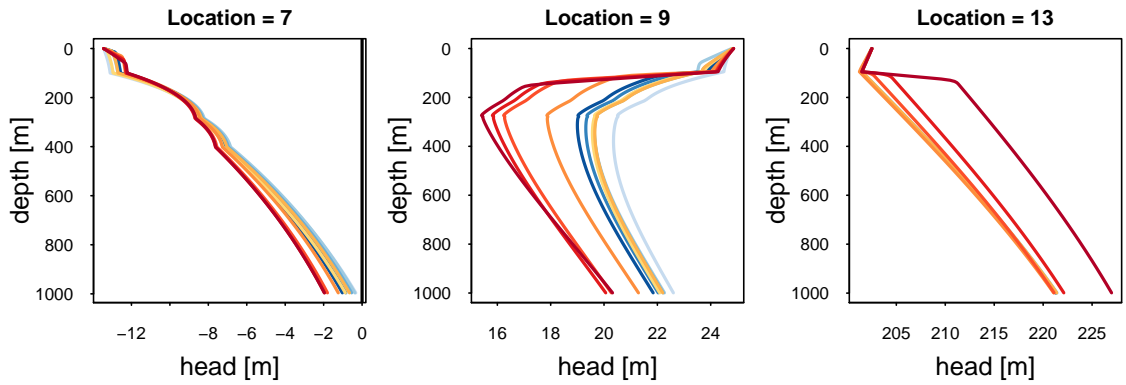
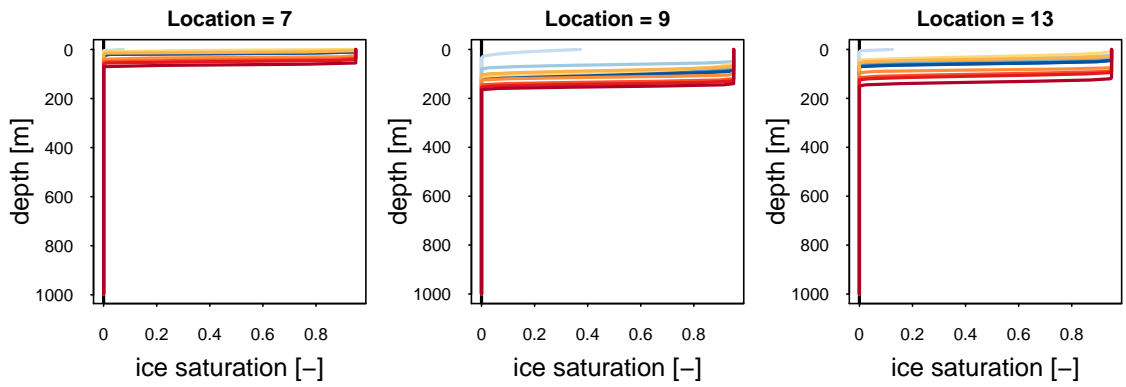
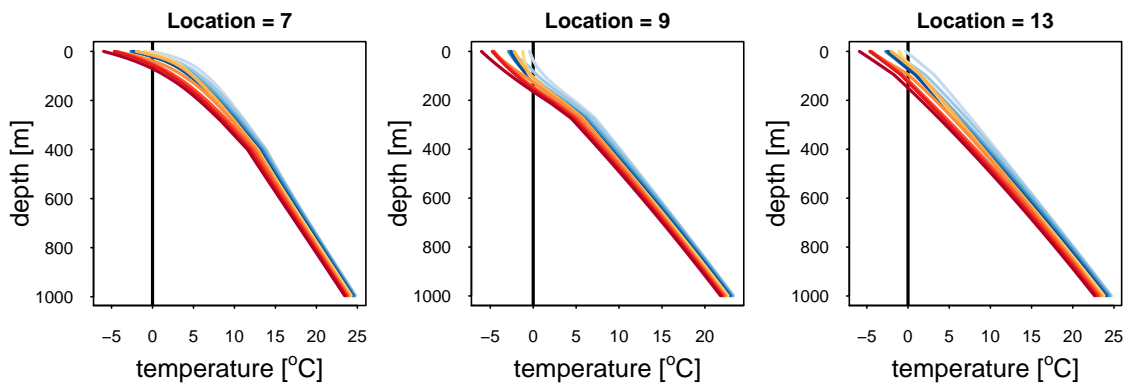
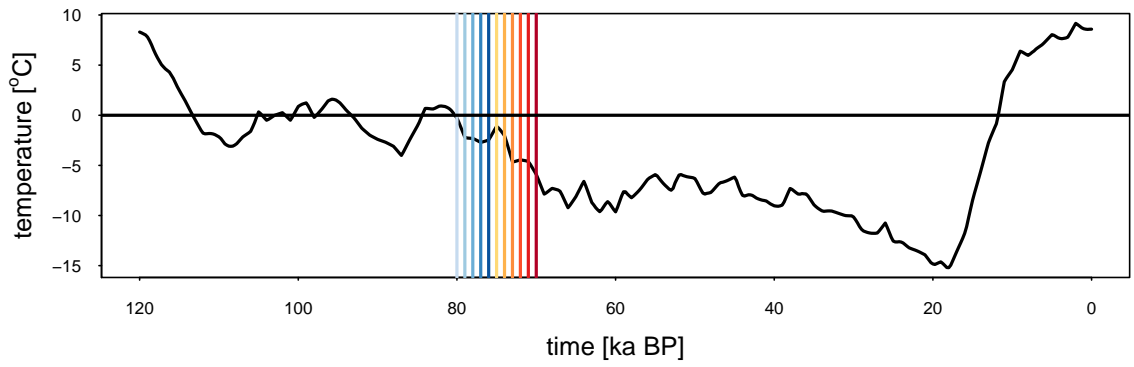
1.2.8 Run T-25_Max_Omega1

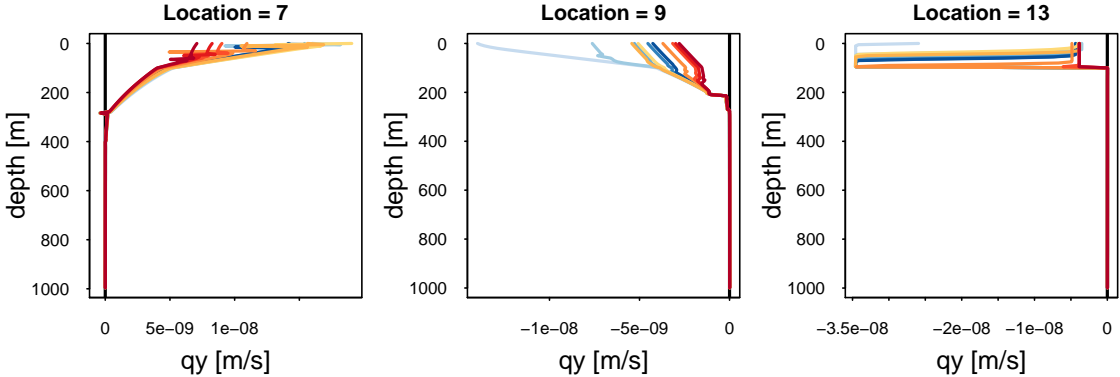
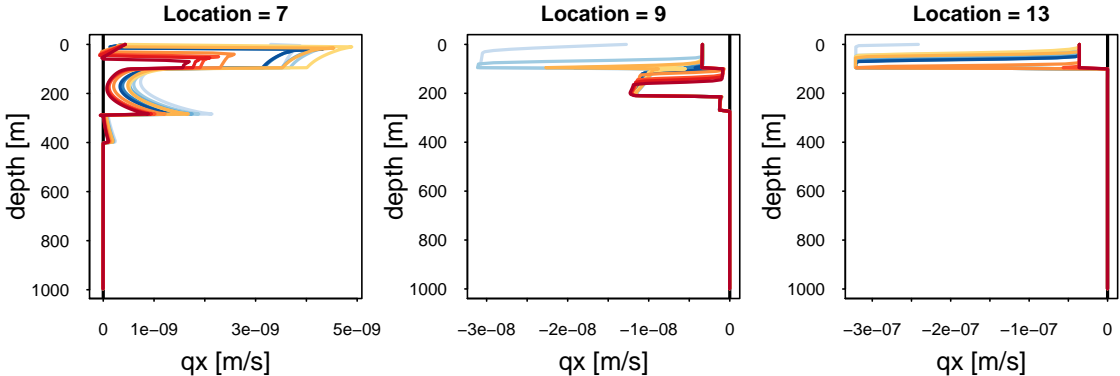
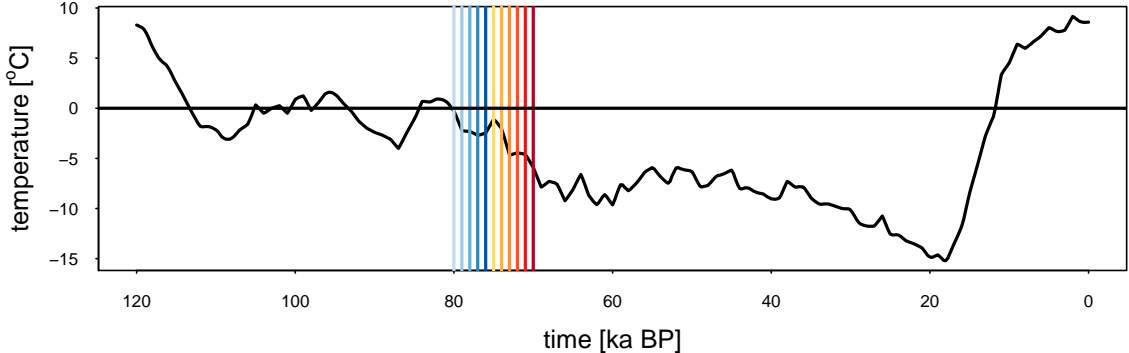




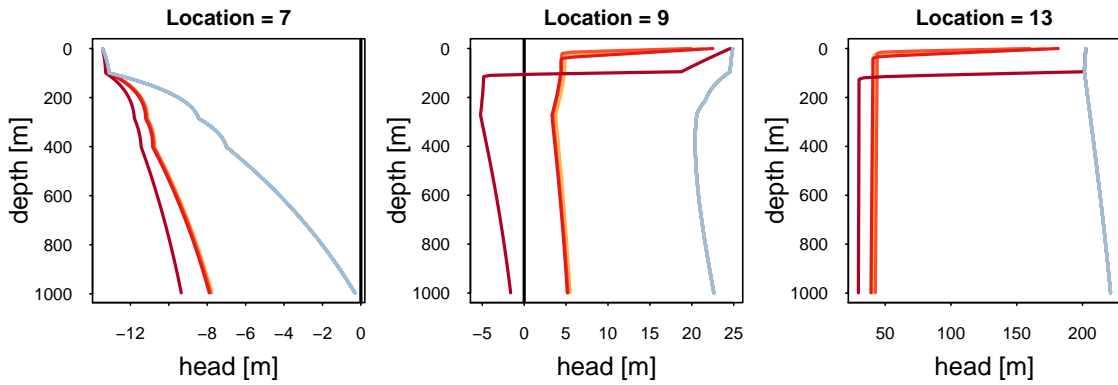
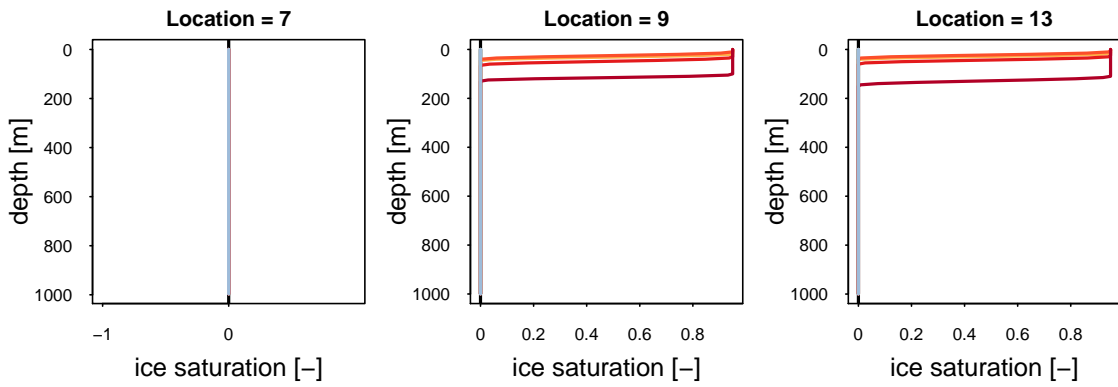
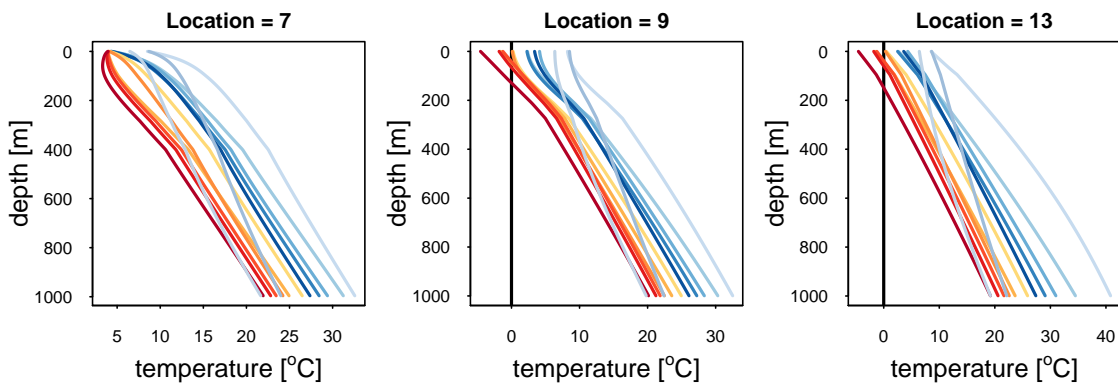
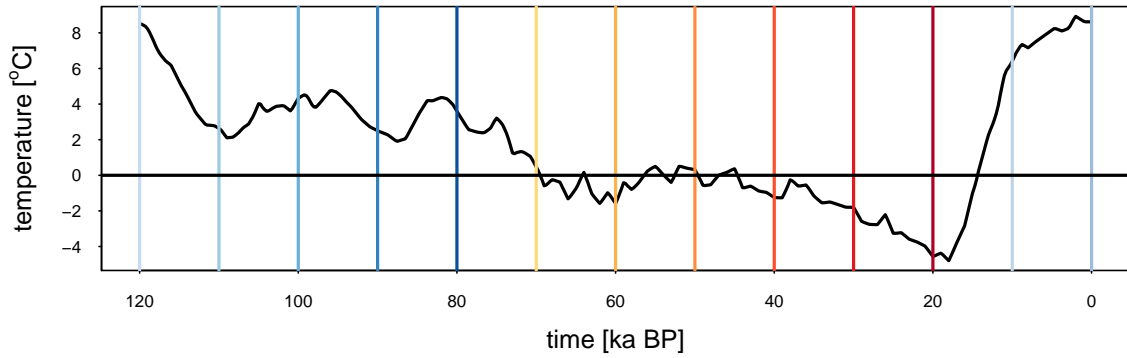


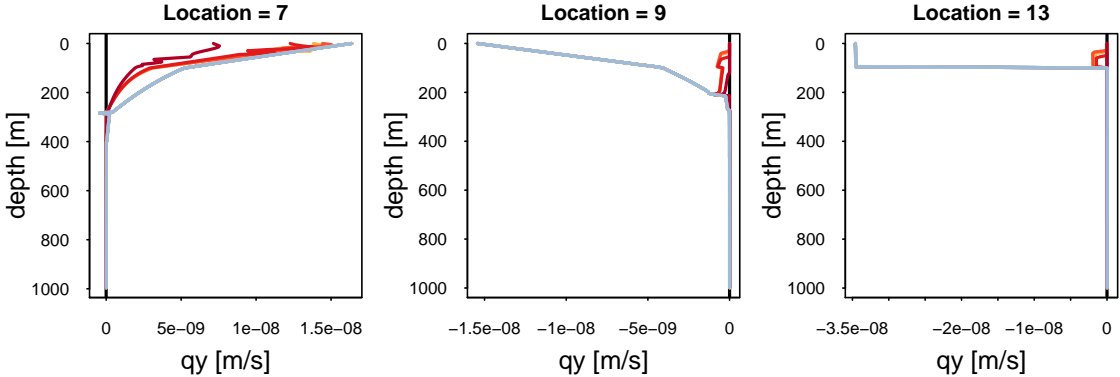
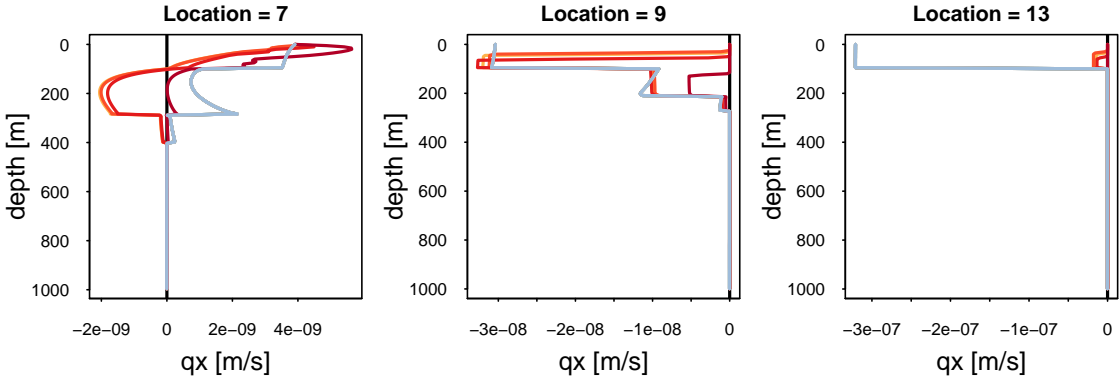
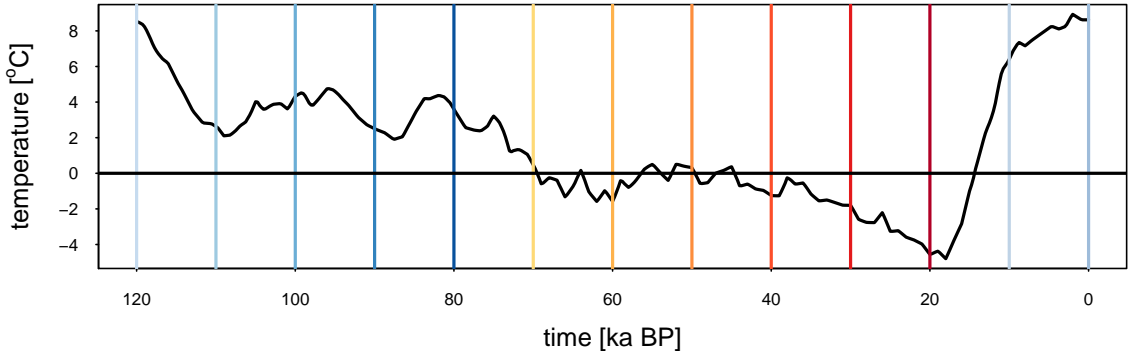


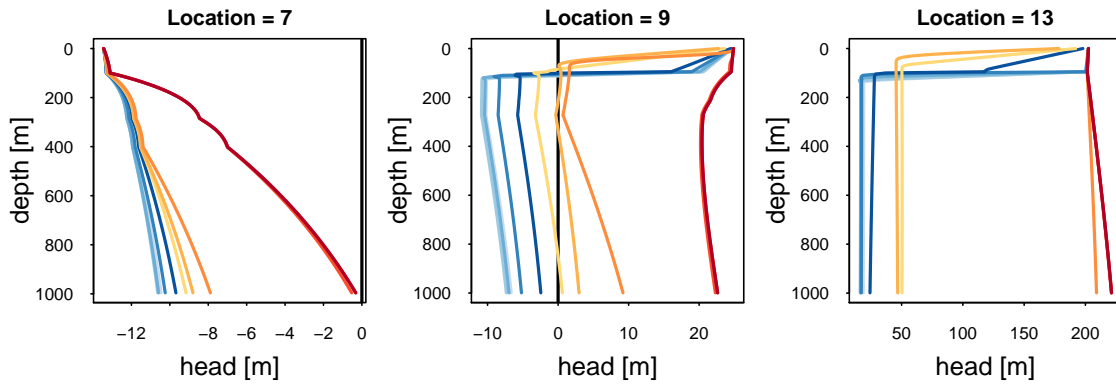
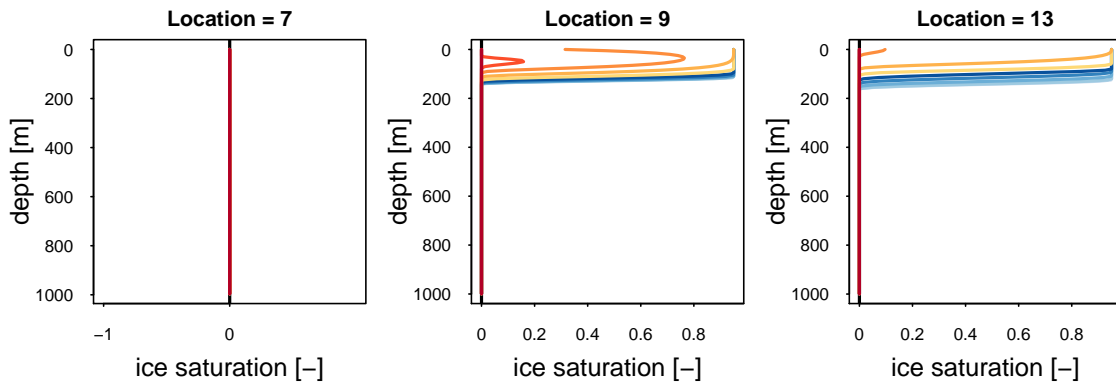
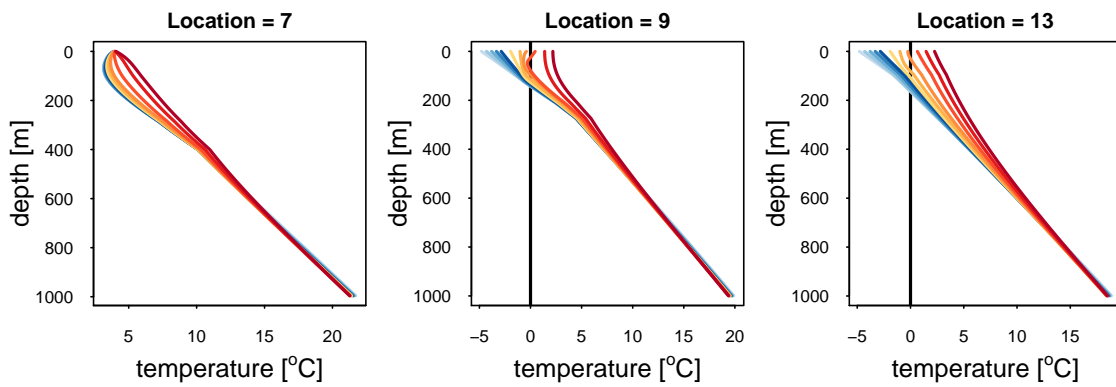
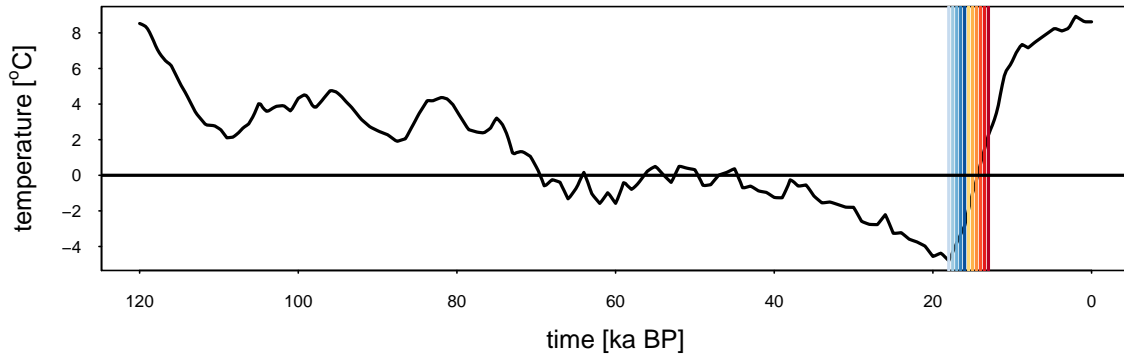


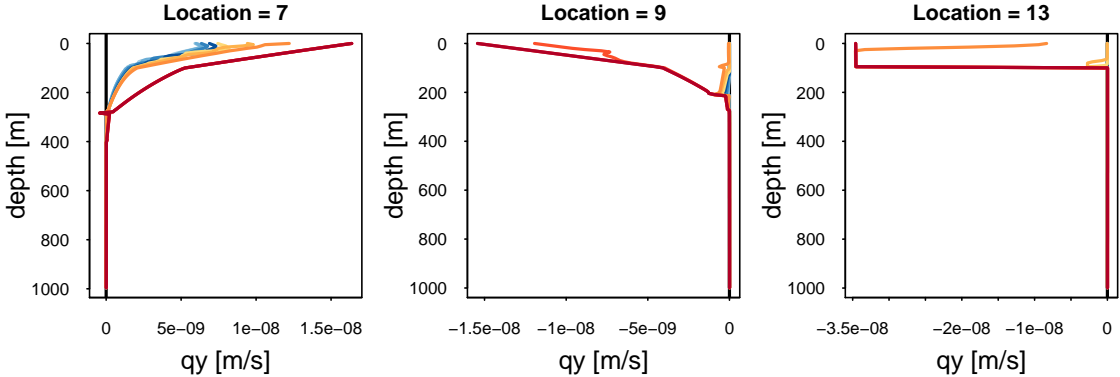
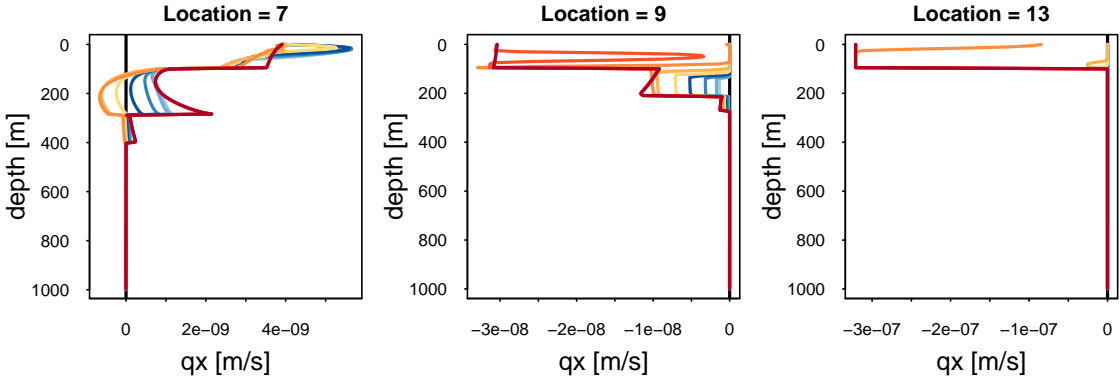
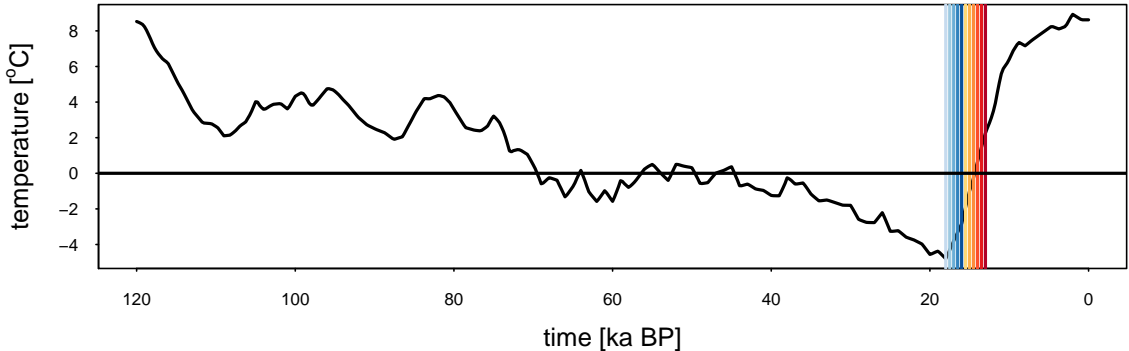


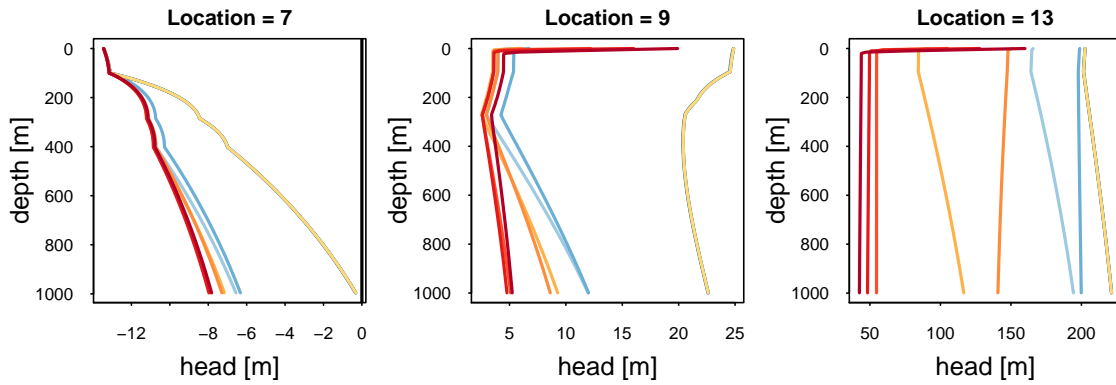
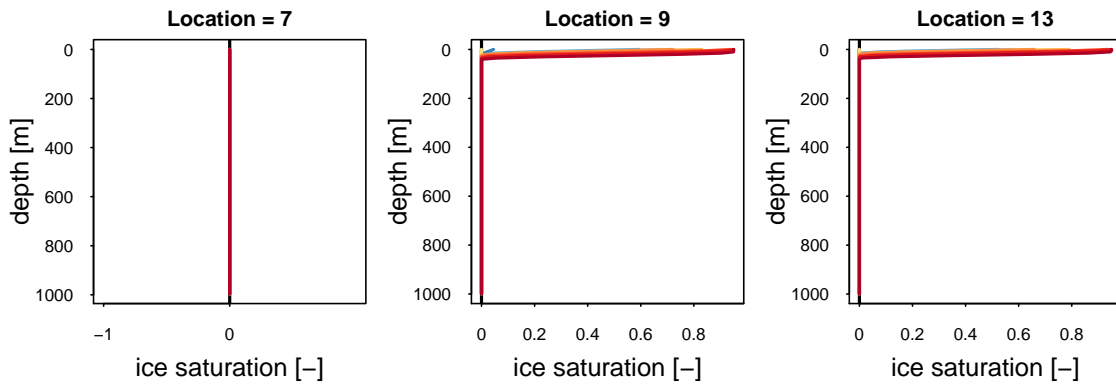
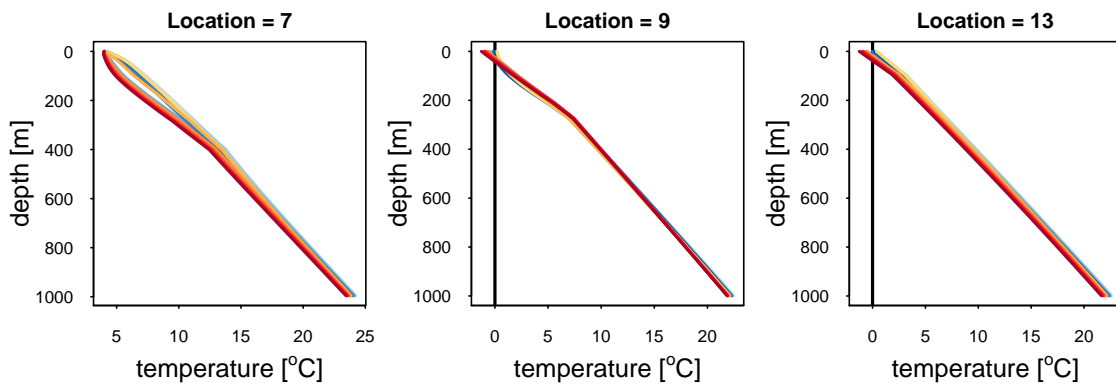
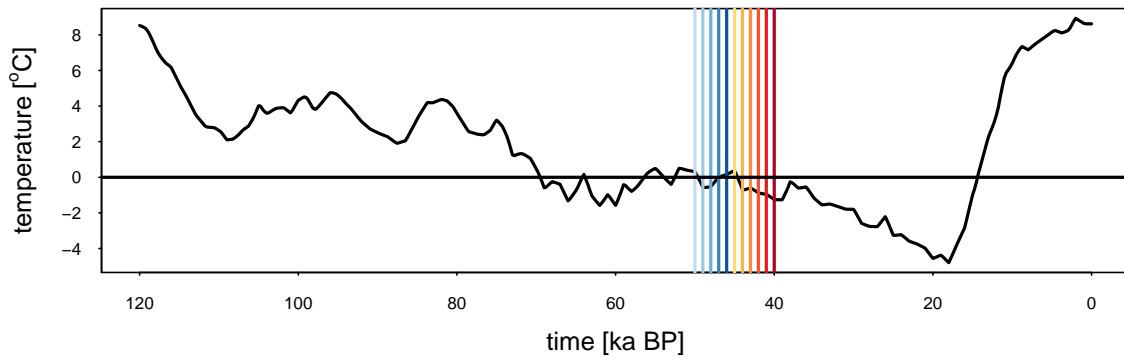
1.2.9 Run T-14_MaxTalik

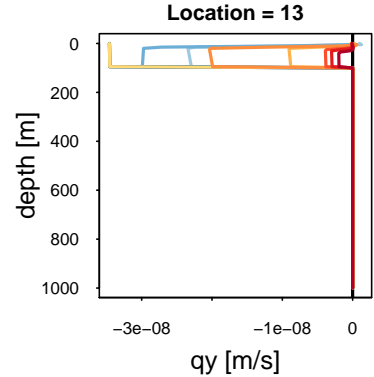
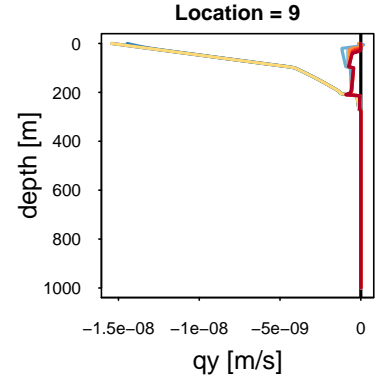
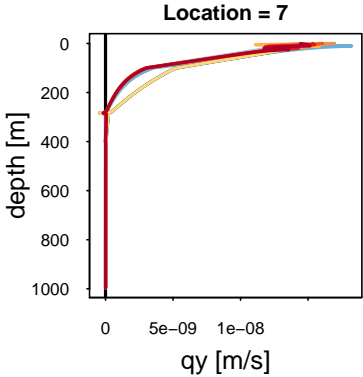
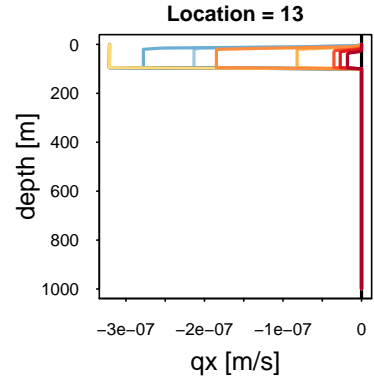
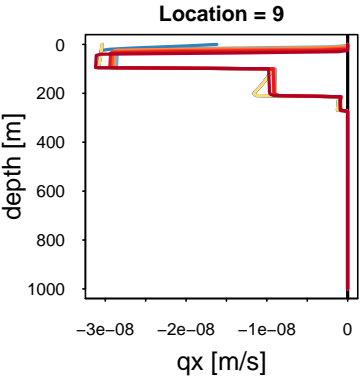
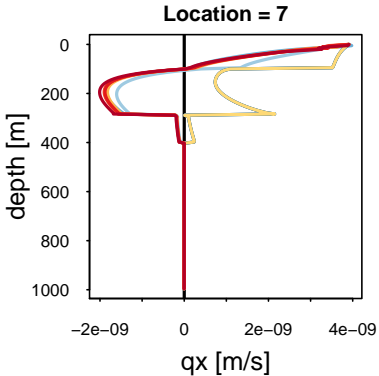
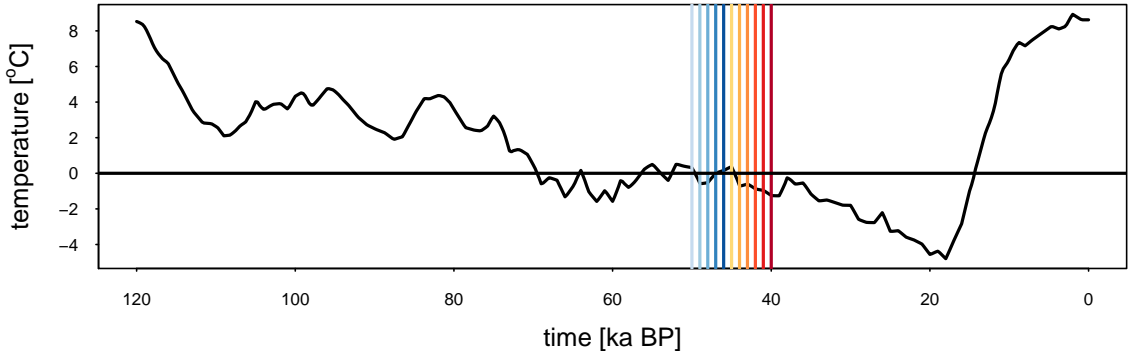




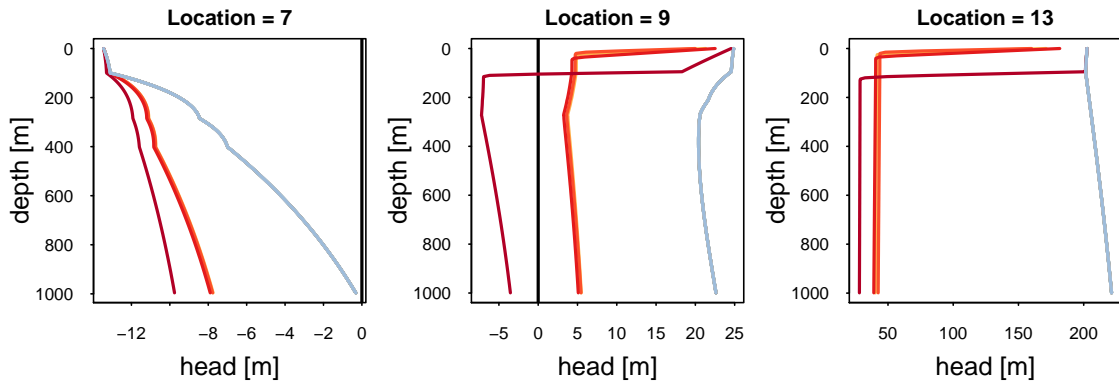
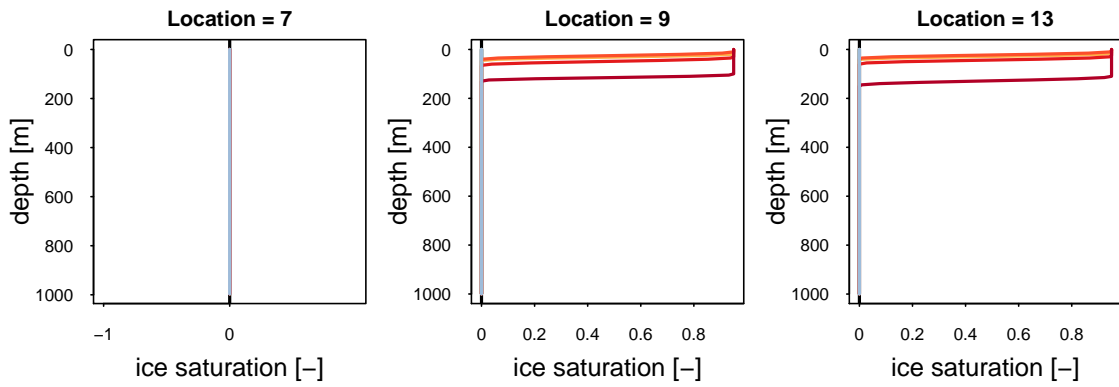
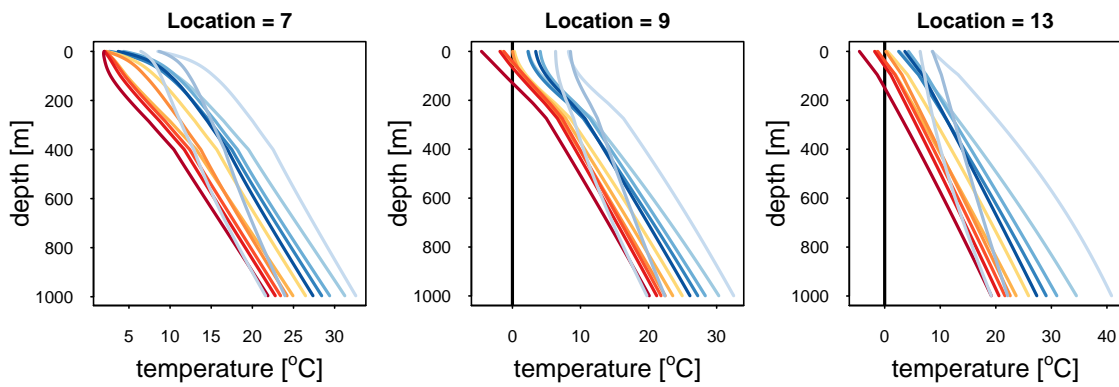
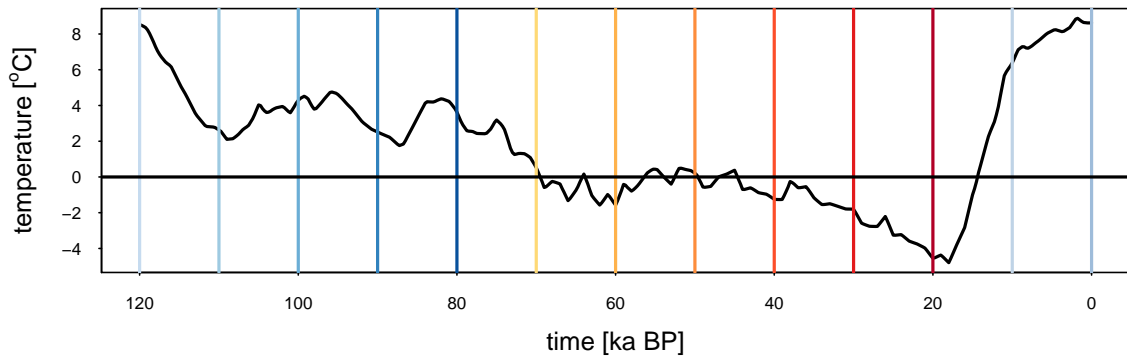


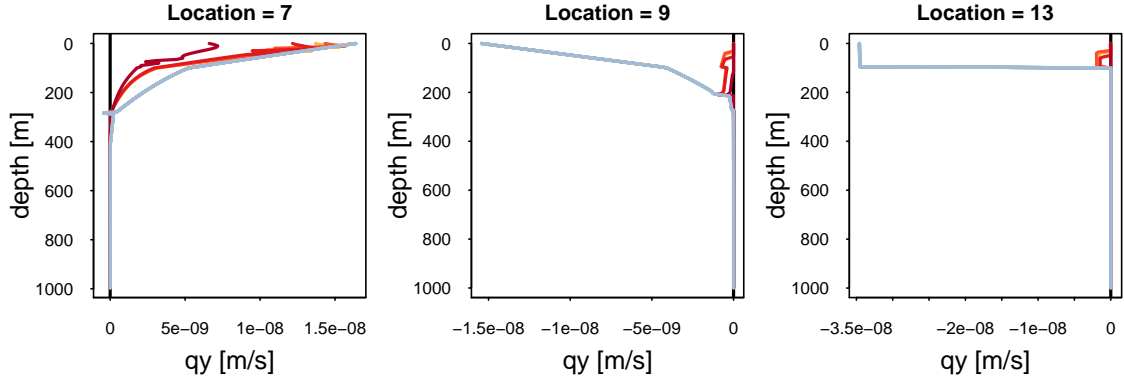
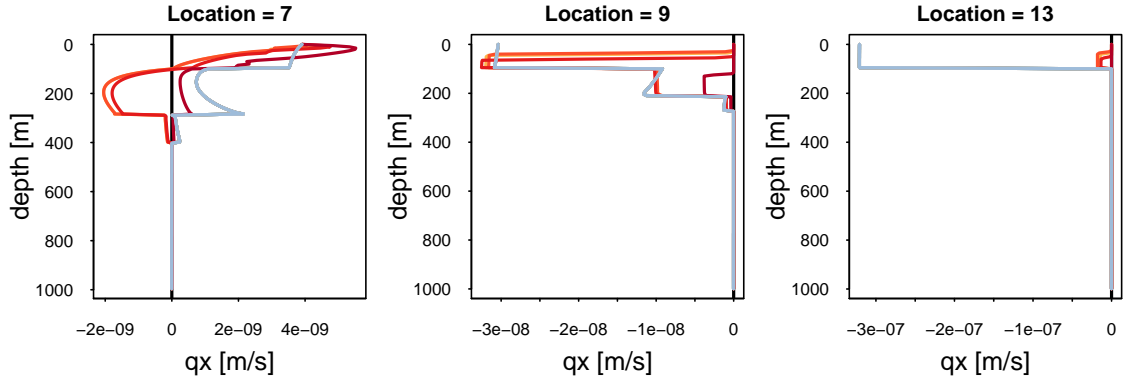
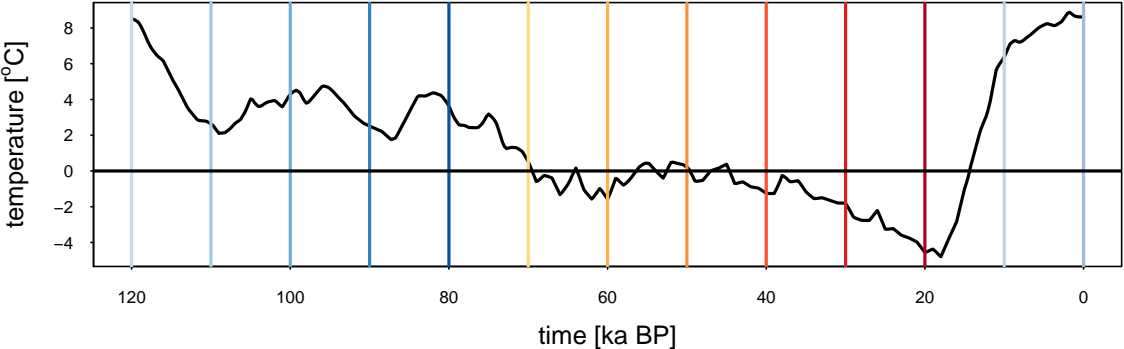


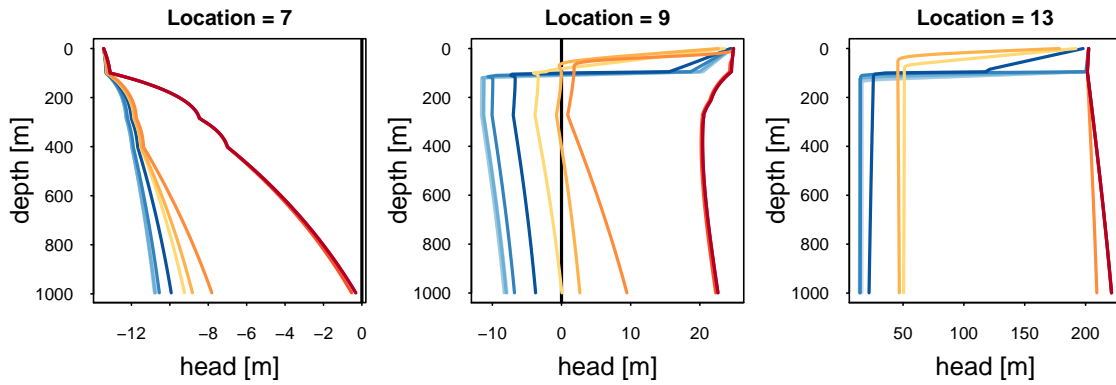
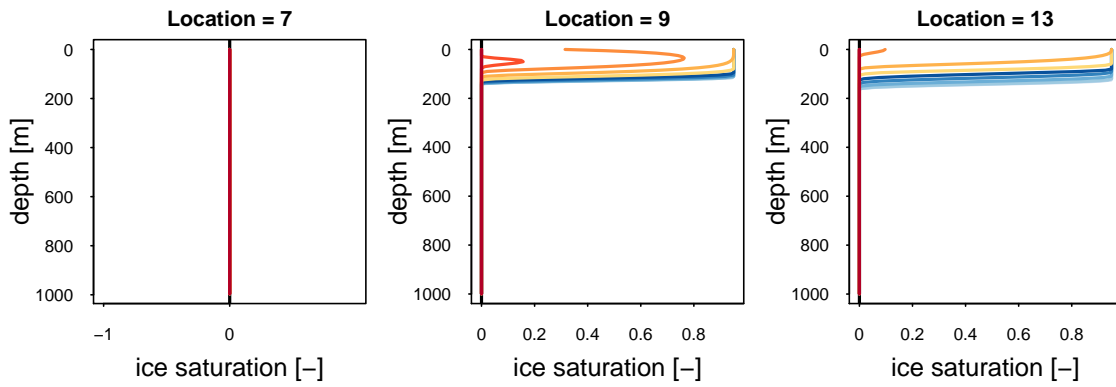
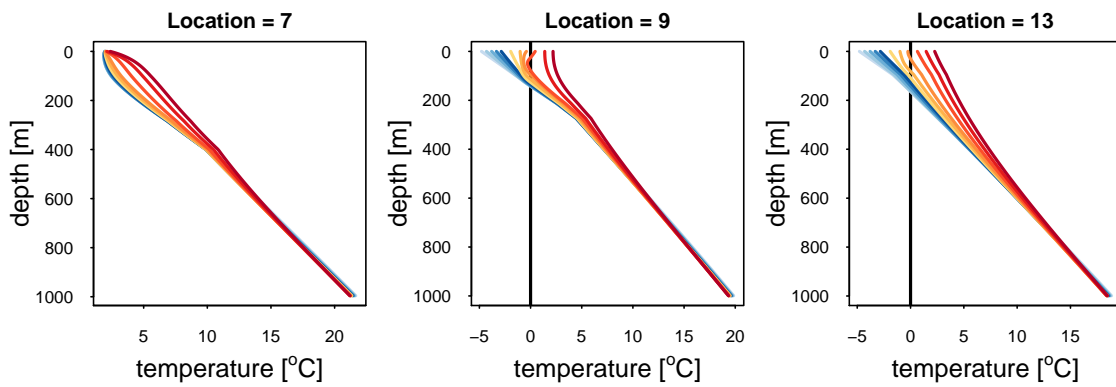
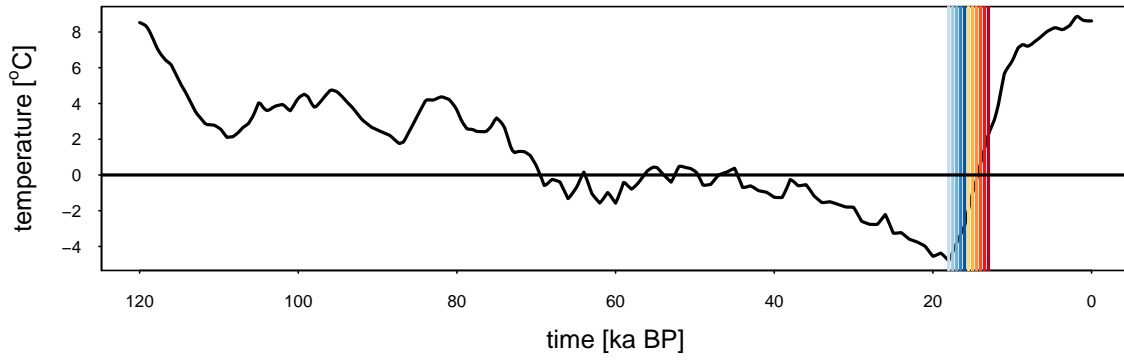


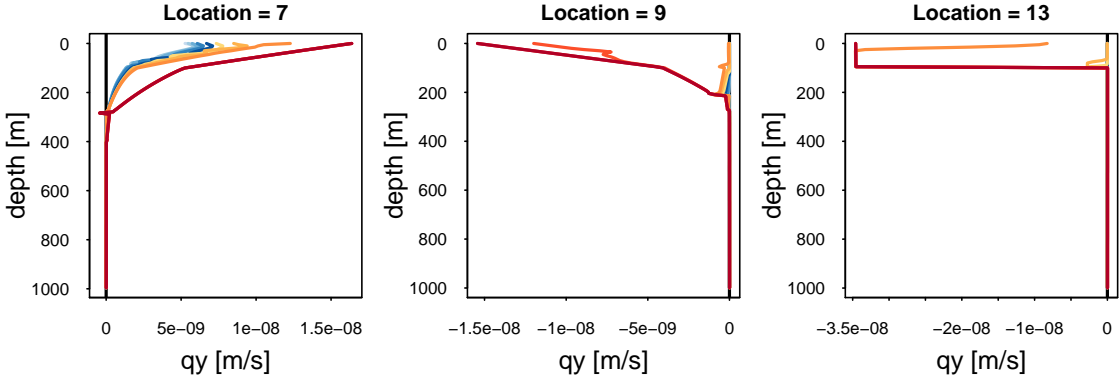
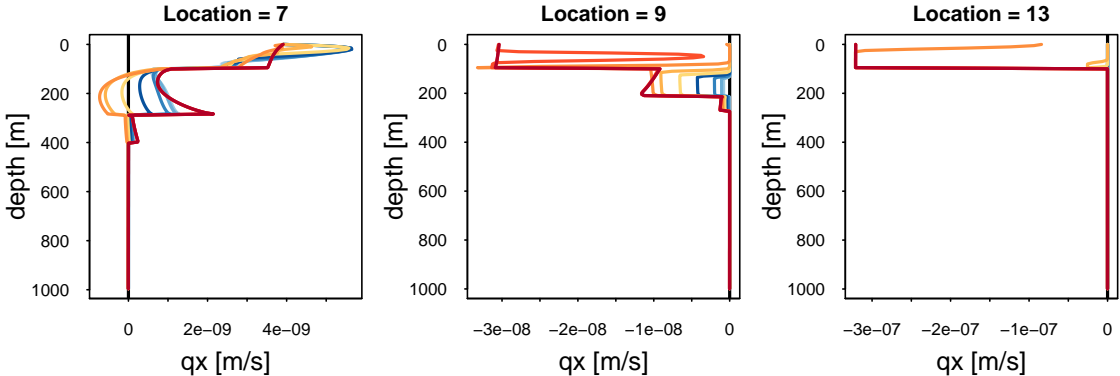
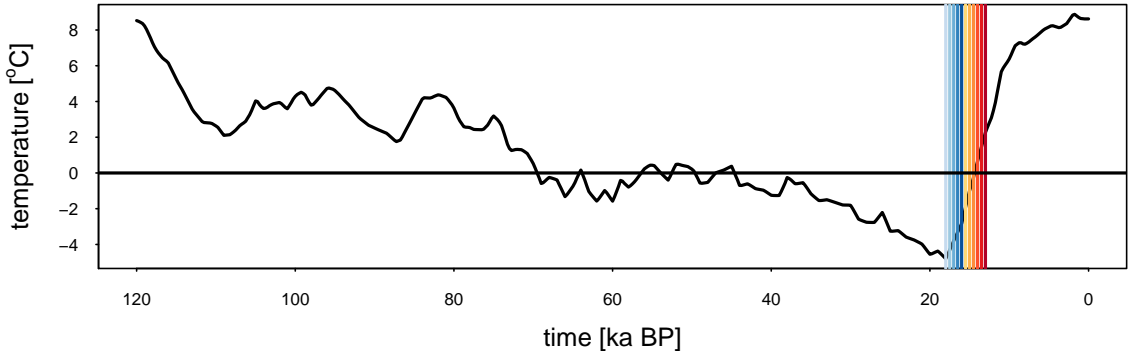


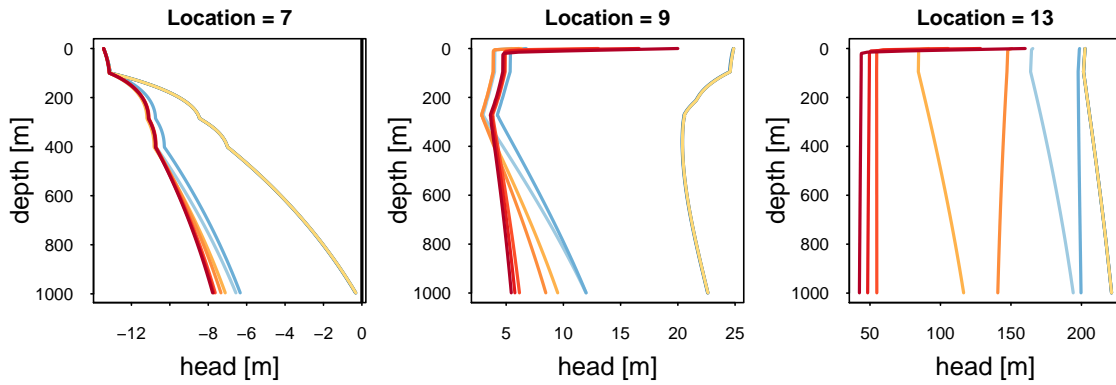
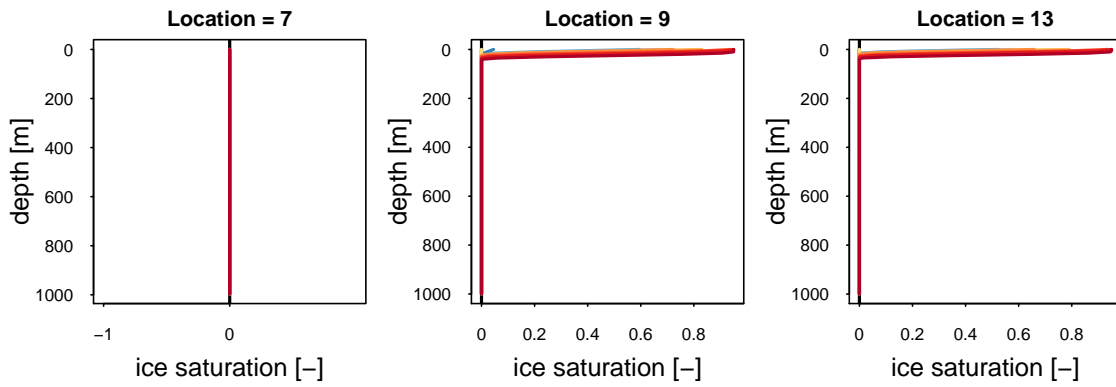
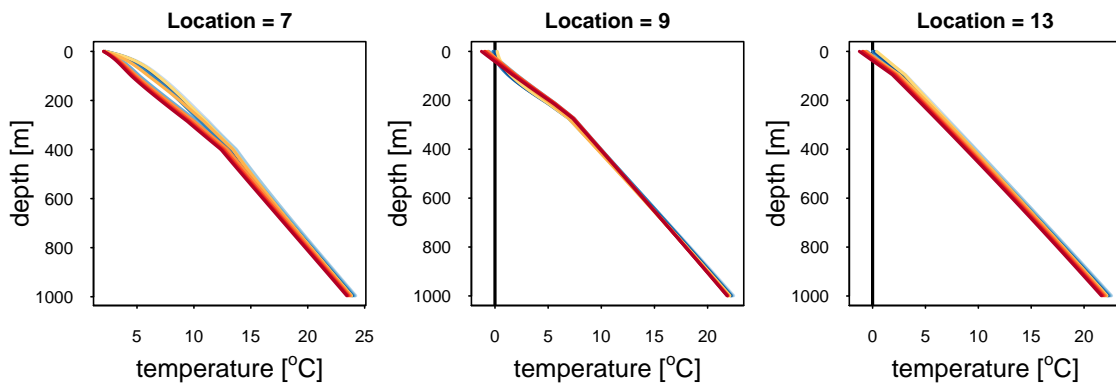
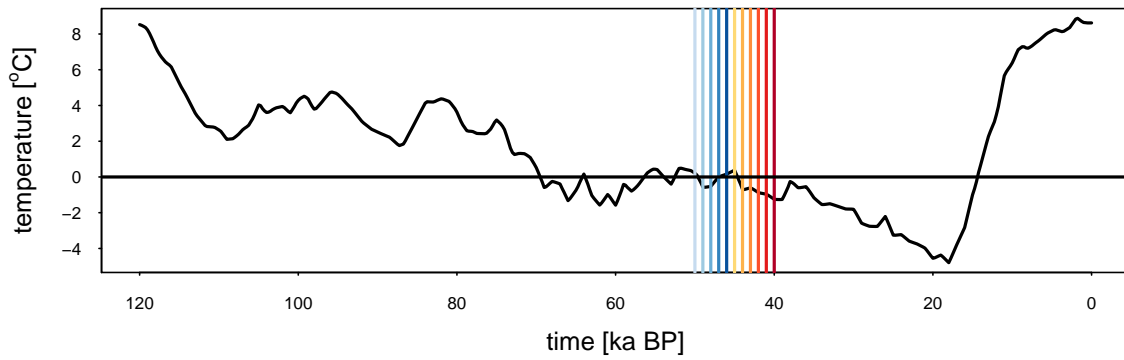
1.2.10 Run T-14_MaxTalik2

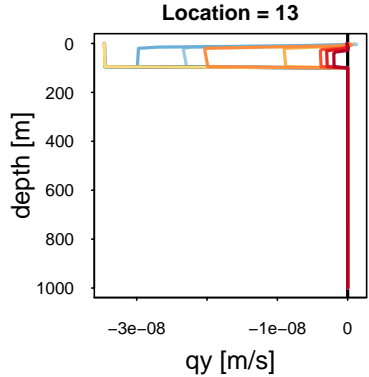
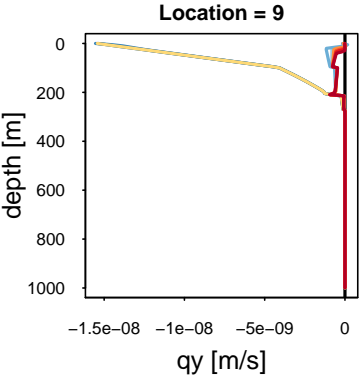
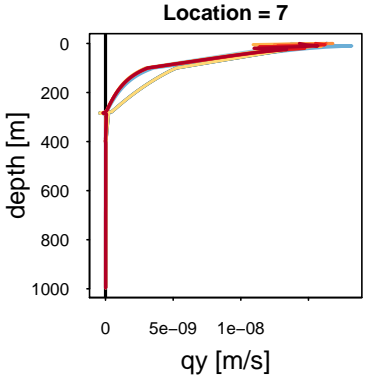
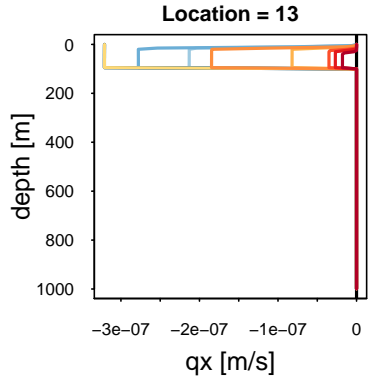
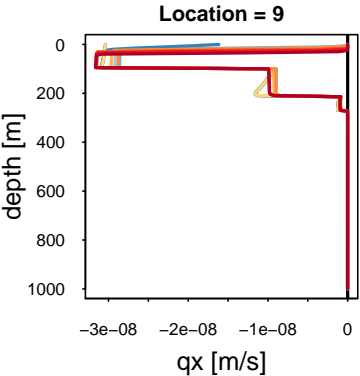
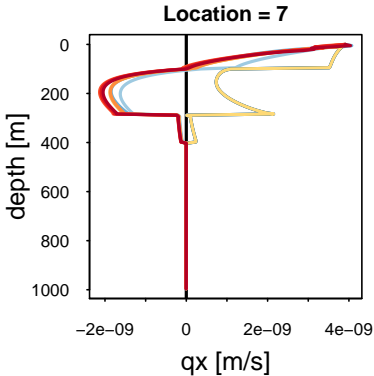
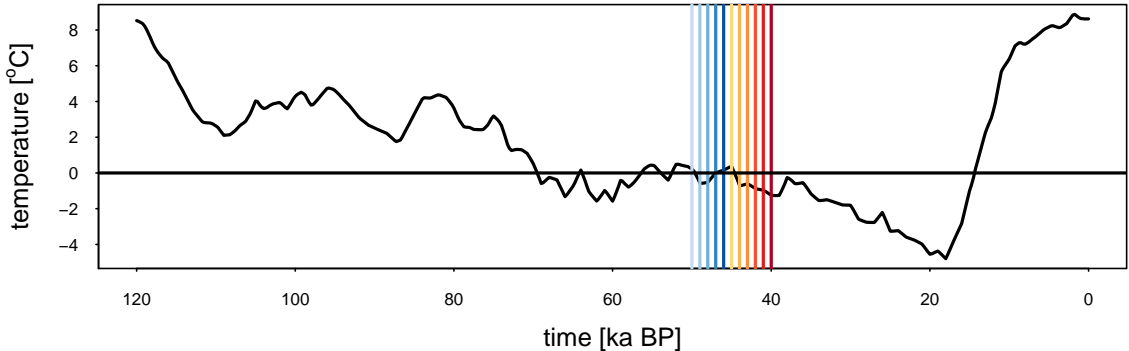












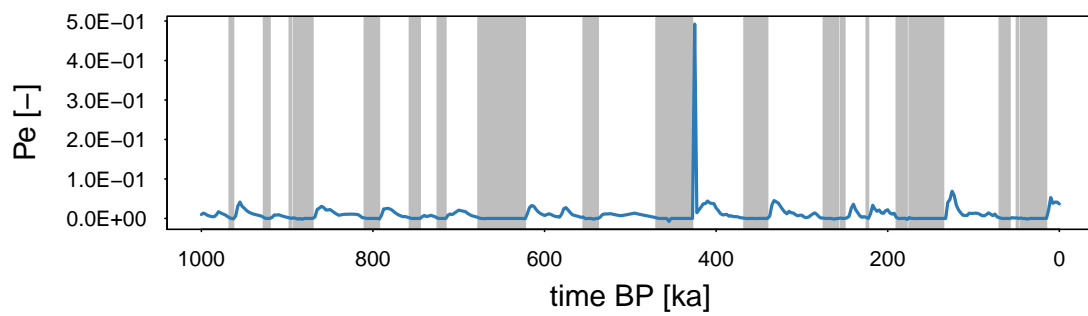
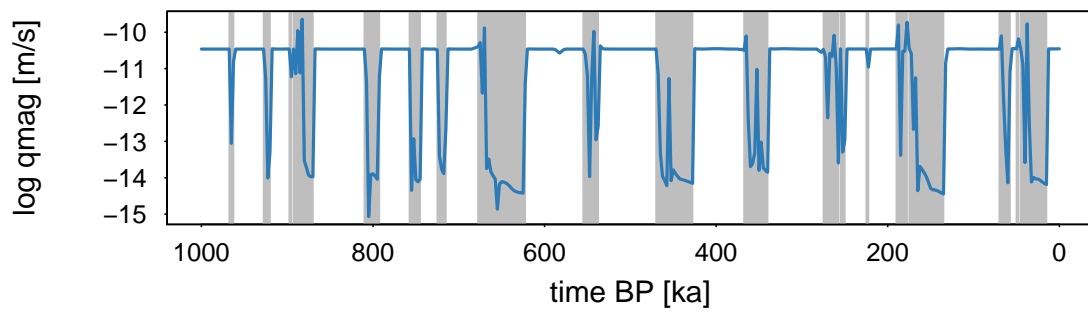
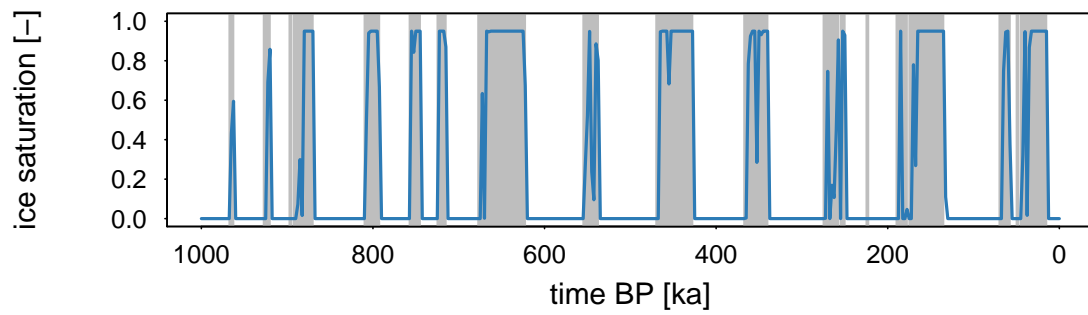
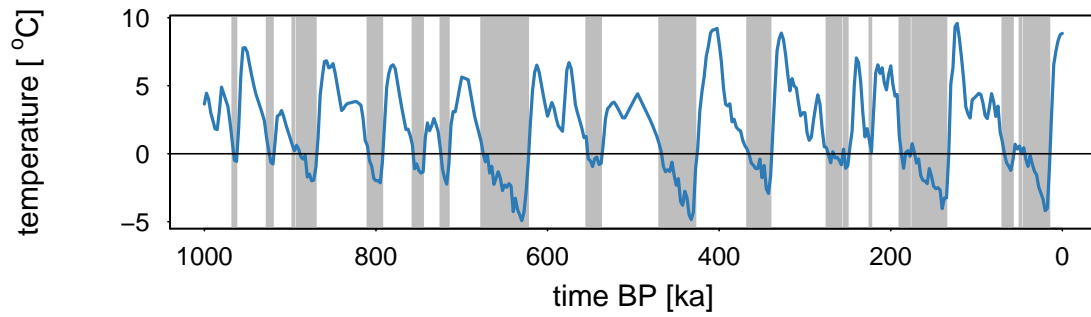
2 Extended model results of Case 2

This section presents time series over the past one million years of temperature, ice saturation, flow magnitude and thermal peclet number at different depths (10, 100, 300, 450, 500 m) for the model runs described in Section 4.4.2 and in Table 5. Times during which the surface is frozen is marked with a grey filled box.

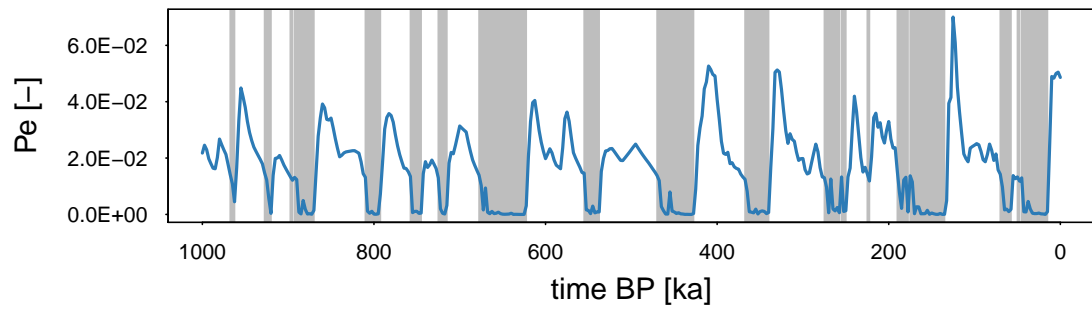
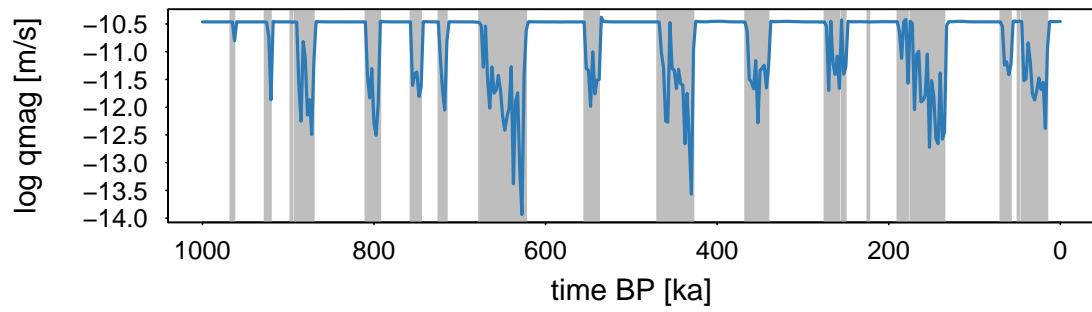
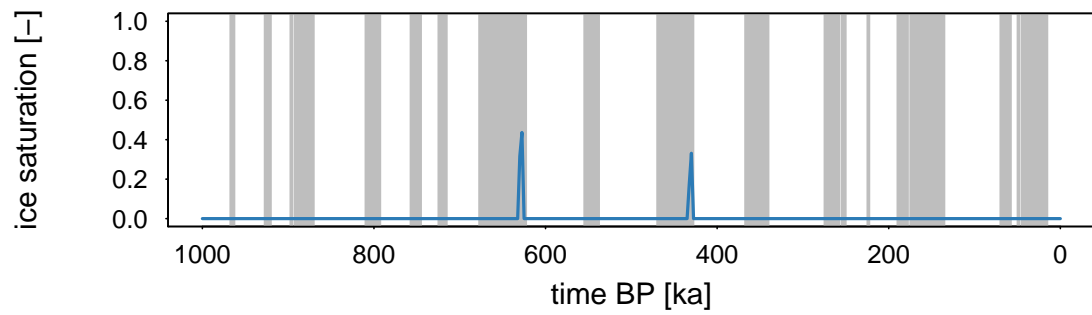
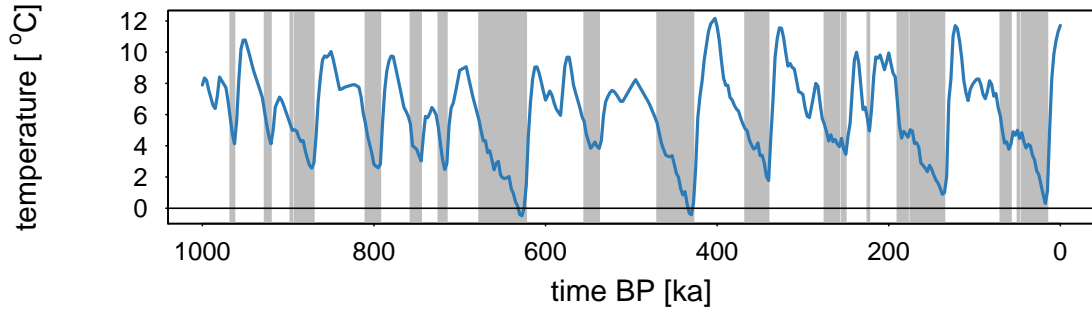
2.1 Timeseries

2.1.1 Run T-14

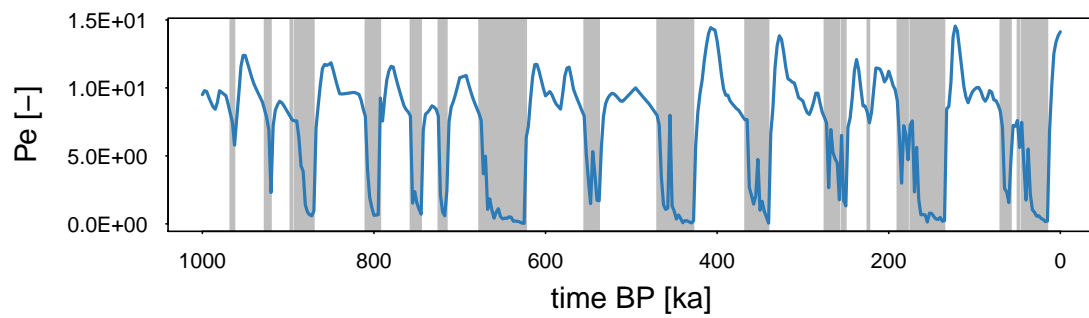
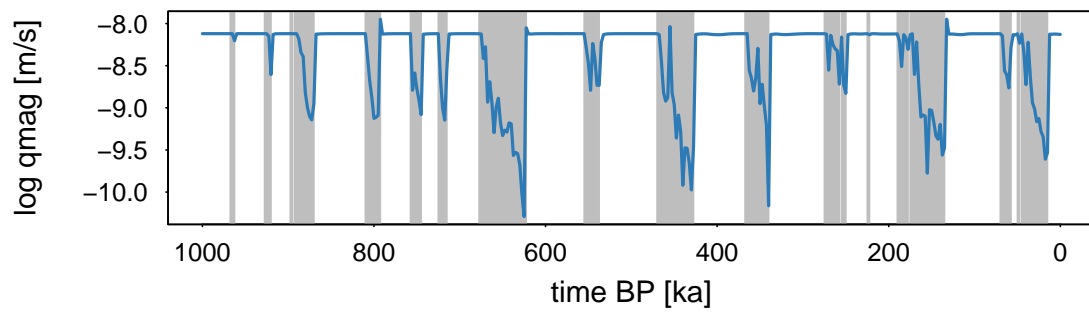
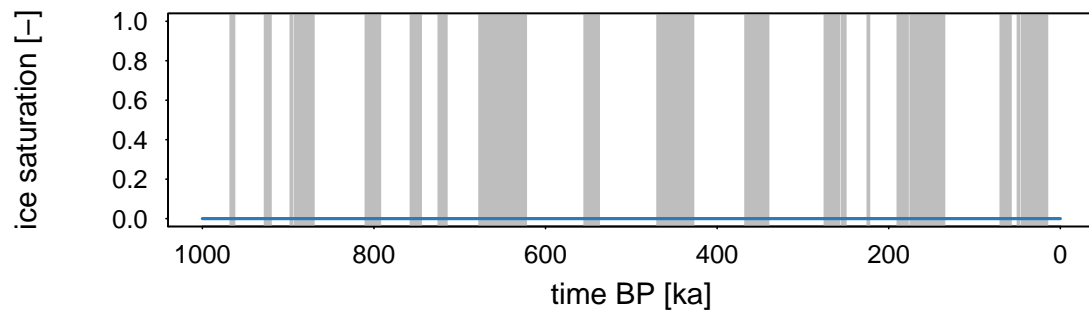
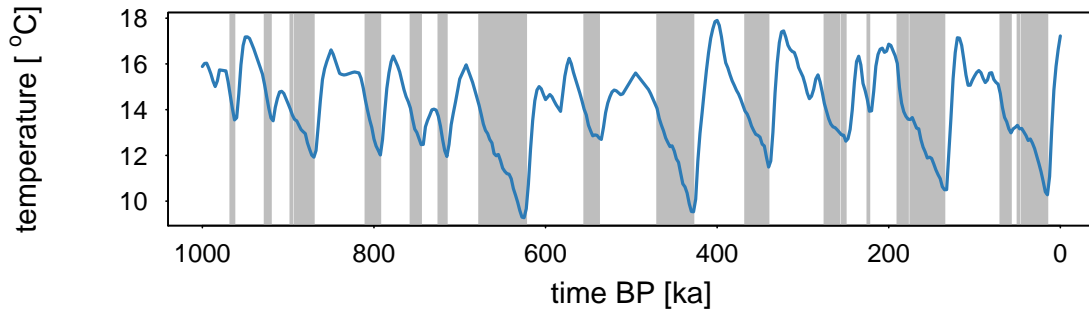
depth = 10 m, Upper Jurassic



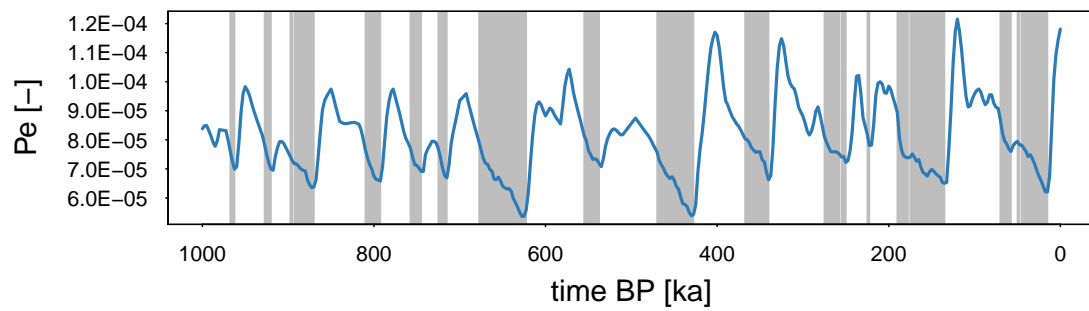
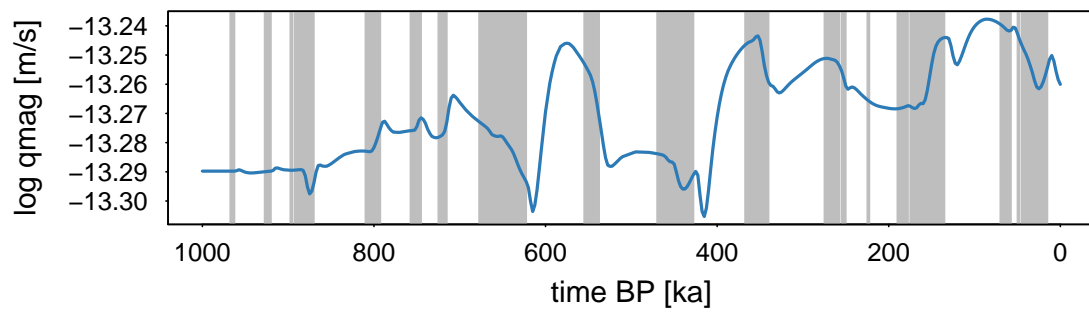
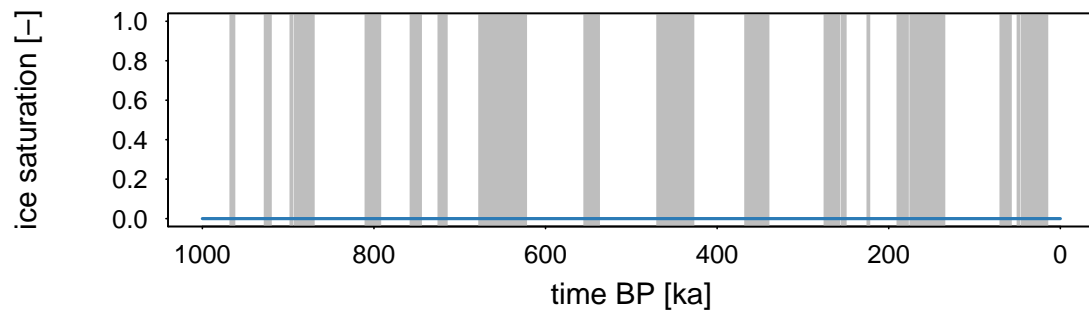
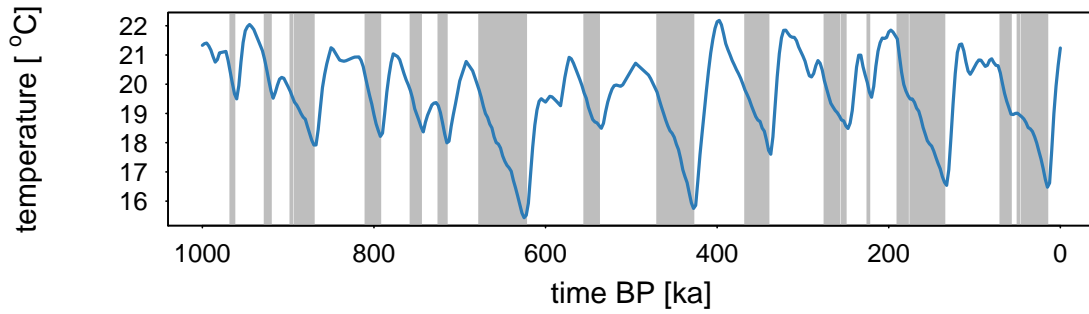
depth = 100 m, Mid Jurassic



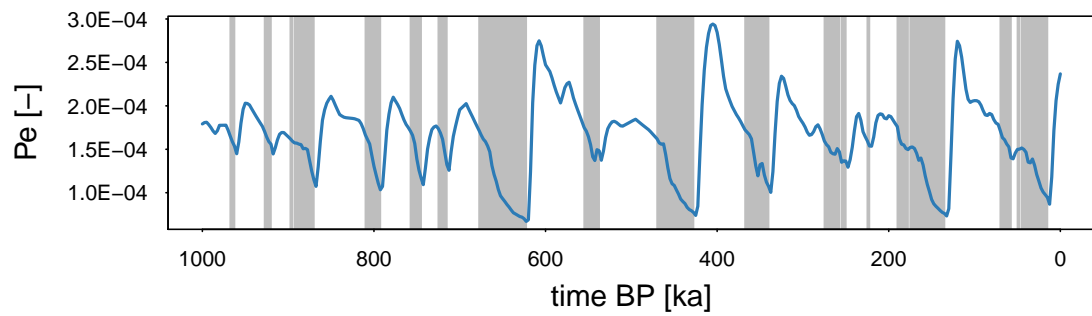
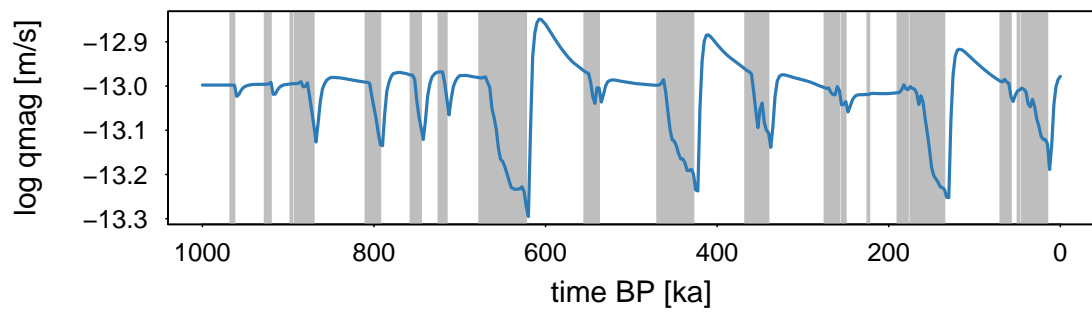
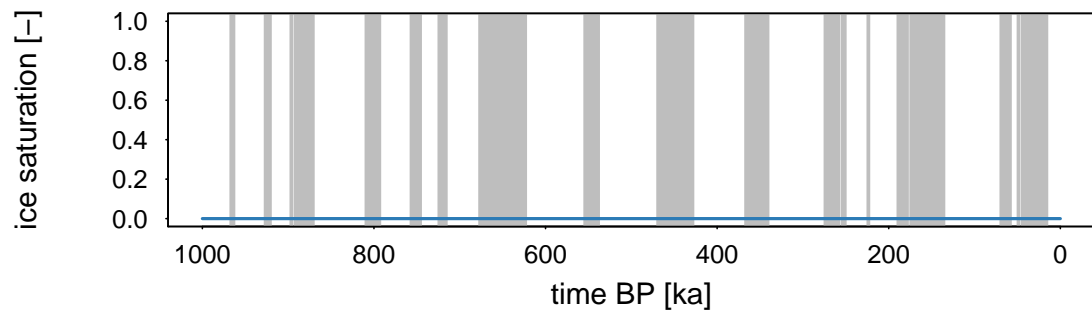
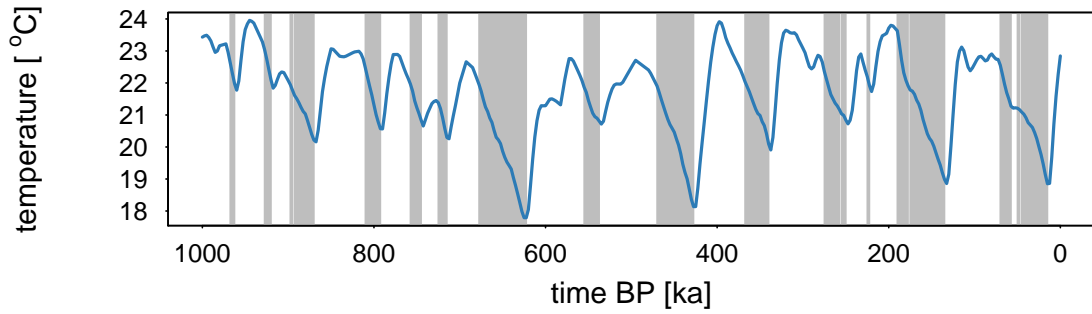
depth = 300 m, Mid Jurassic Aquifer



depth = 450 m, Lower Jurassic

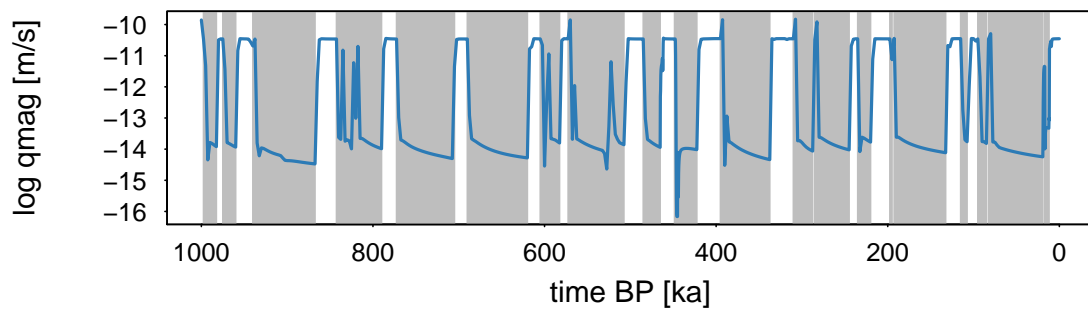
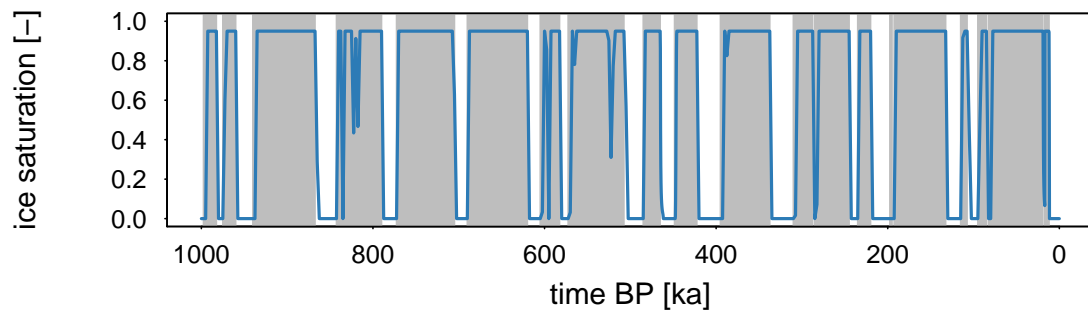
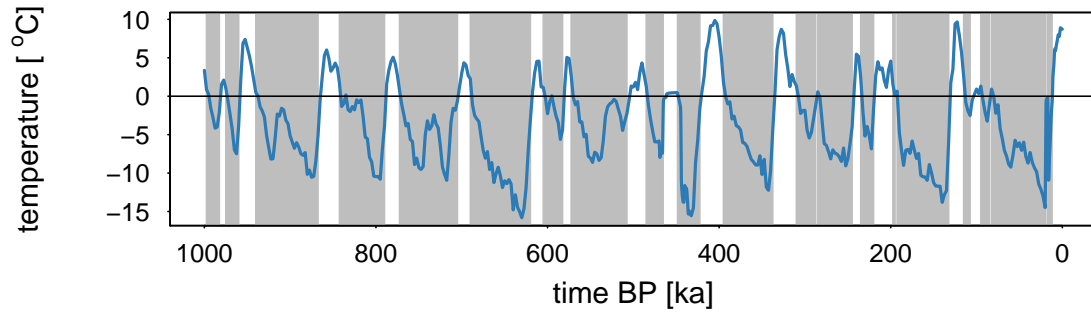


depth = 500 m, Trias

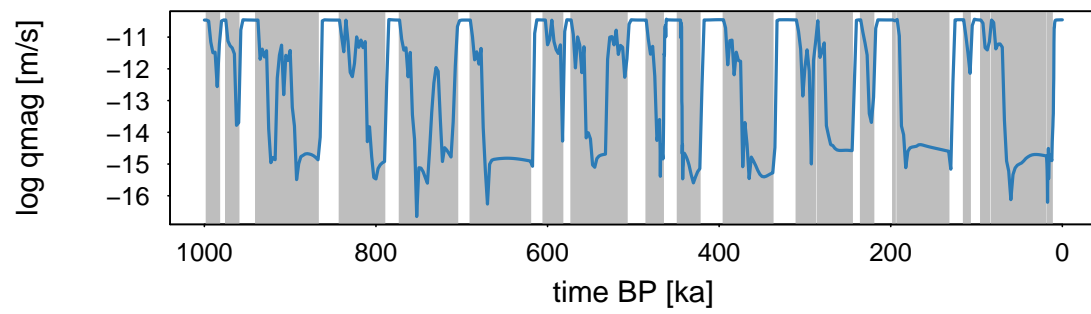
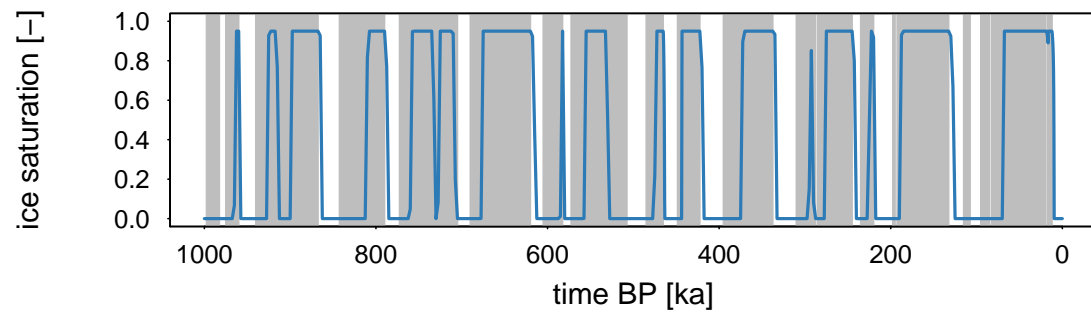
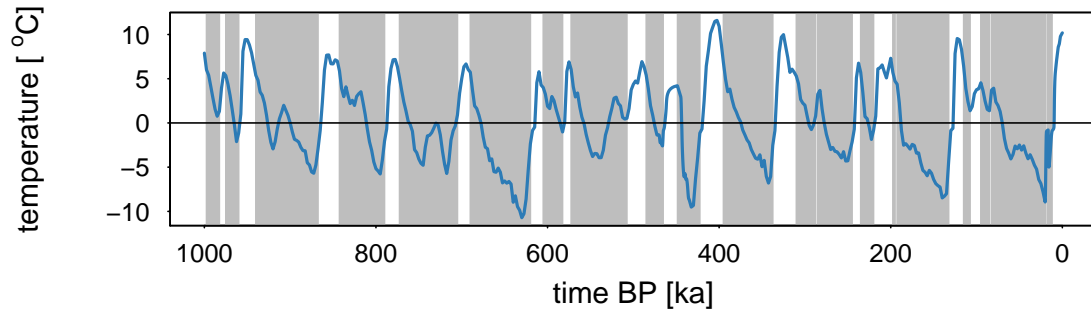


2.1.2 Run T-25

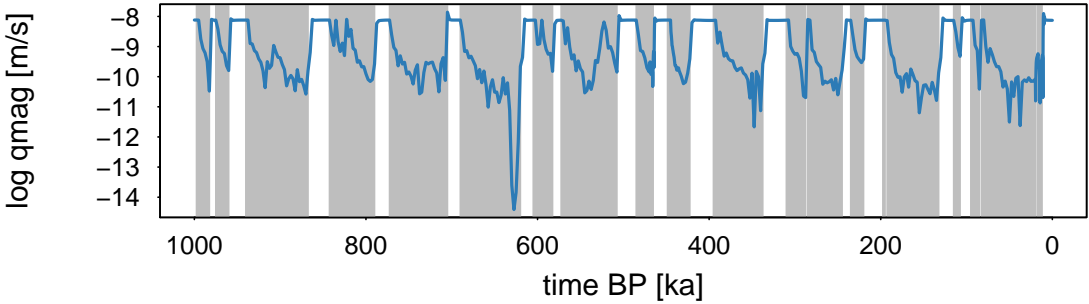
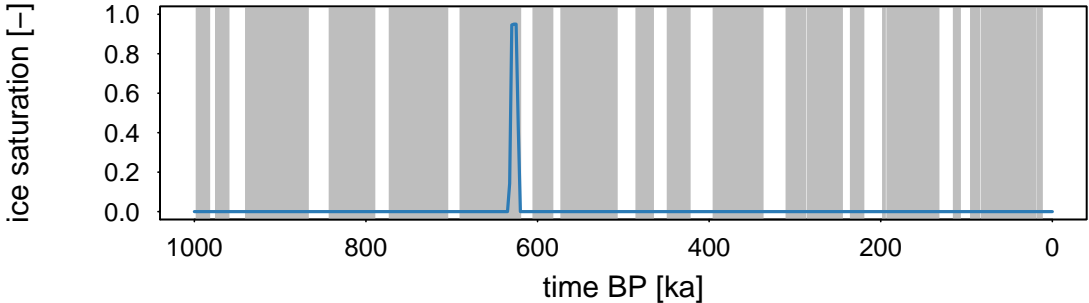
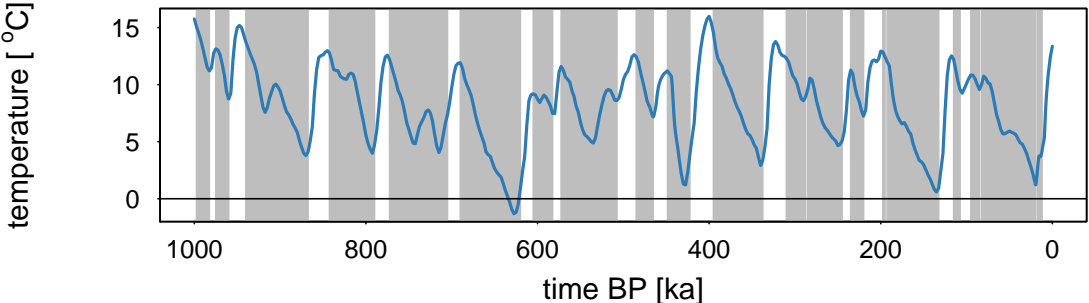
depth = 10 m,



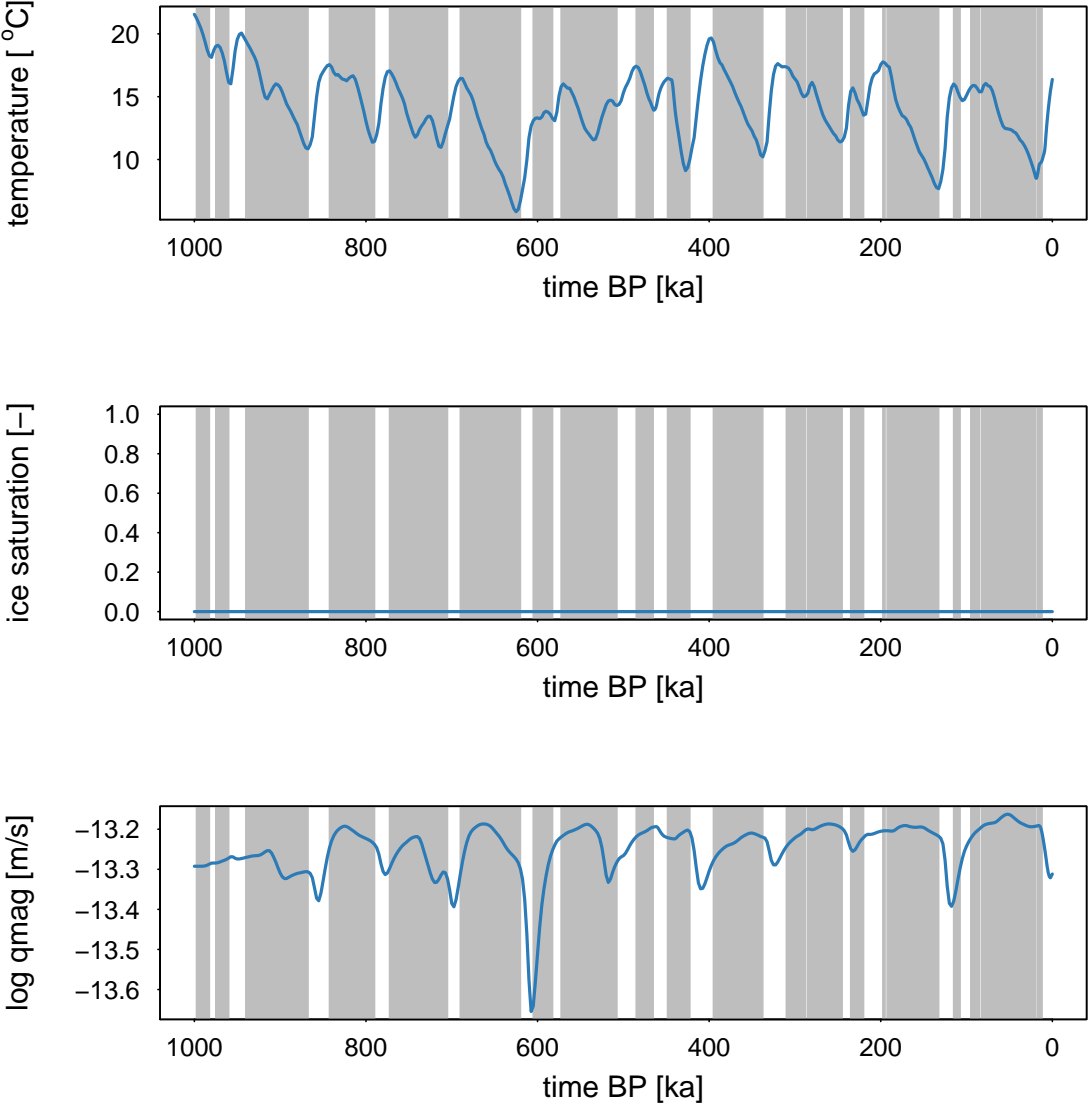
depth = 100 m,



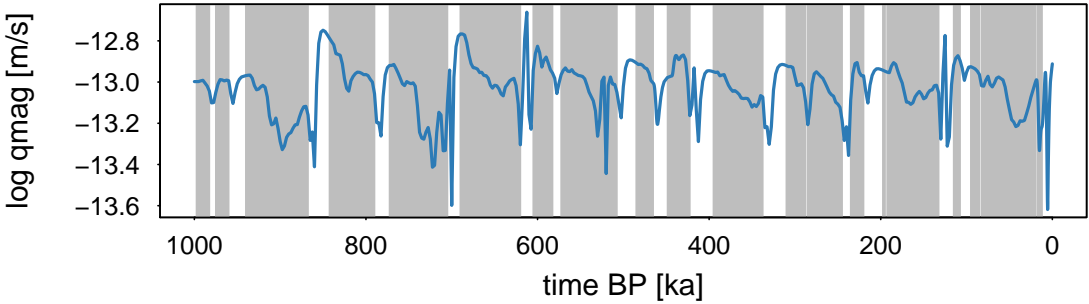
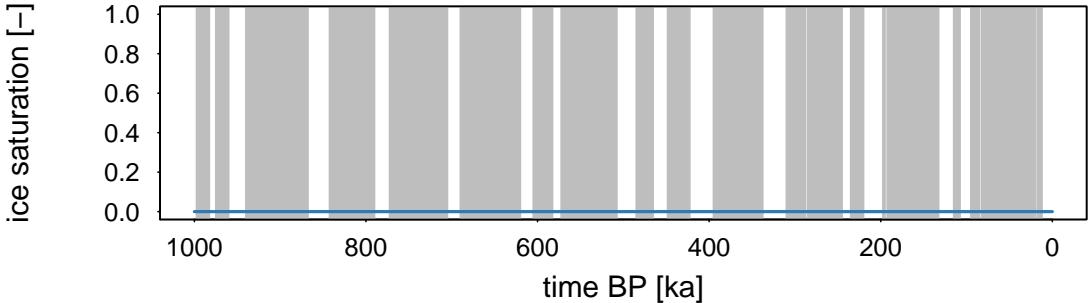
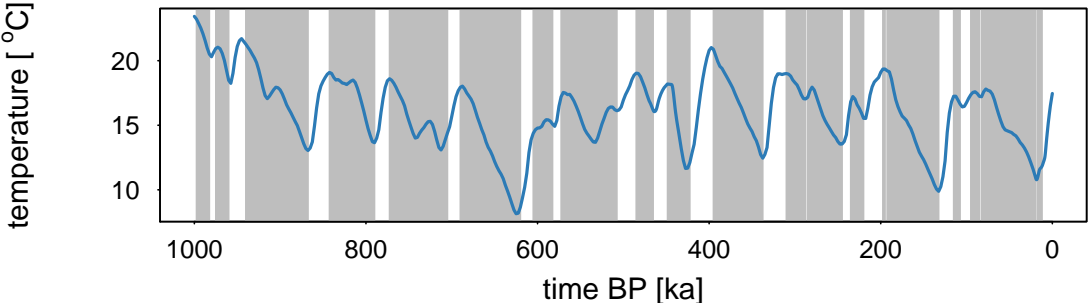
depth = 300 m,



depth = 450 m,



depth = 500 m,



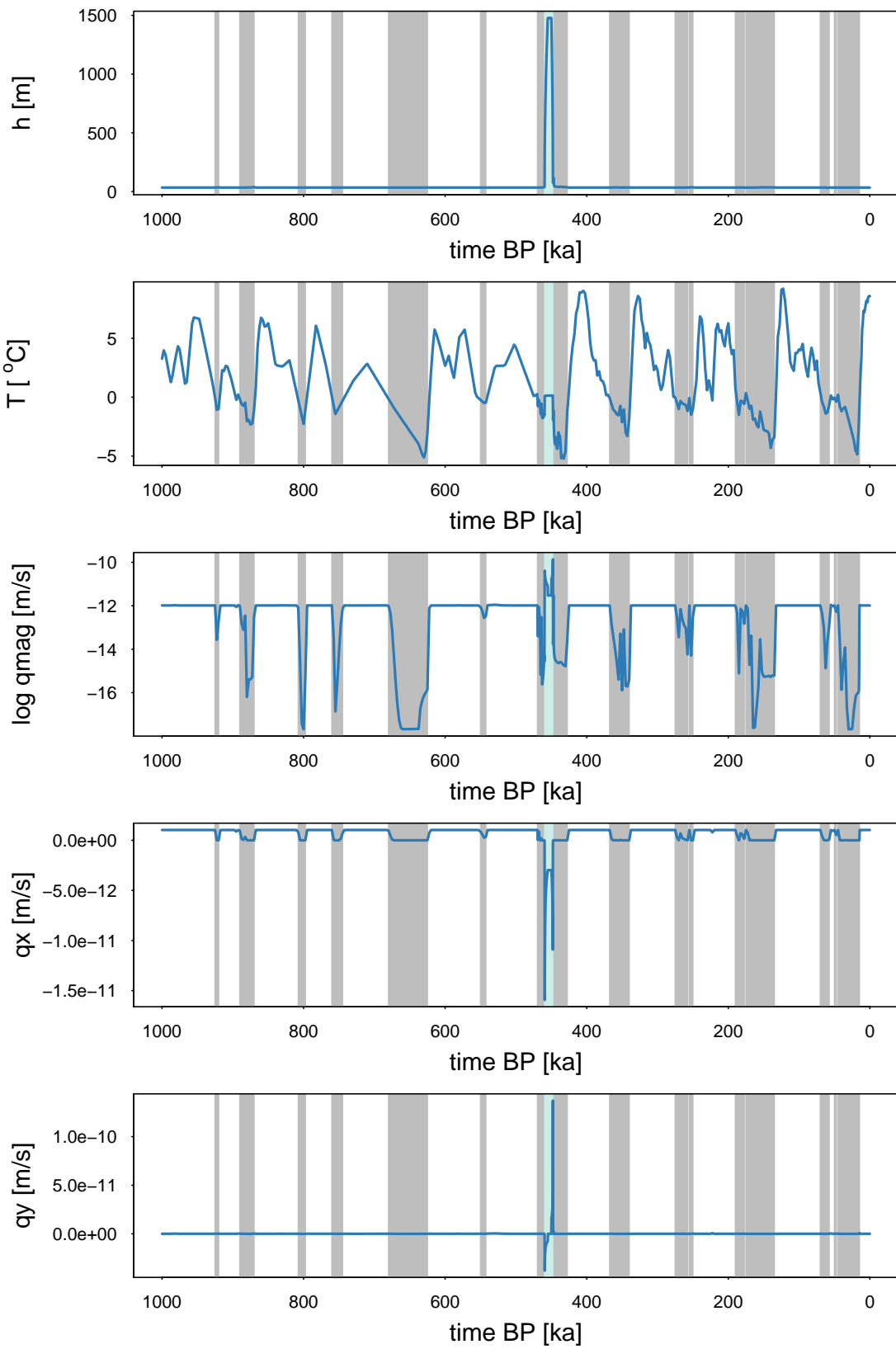
3 Extended model results including glaciation

This section presents time series over the past one million years of hydraulic head, temperature, flow magnitude, lateral flow (q_x) and vertical flow (q_y) at different depths (10, 100, 300, 400, 500 m) for the model runs described in Section 4.4.2 and in Table 6. Times during which the surface is frozen is marked with a grey filled box, and the times when ice covered with a light blue box.

3.1 Timeseries

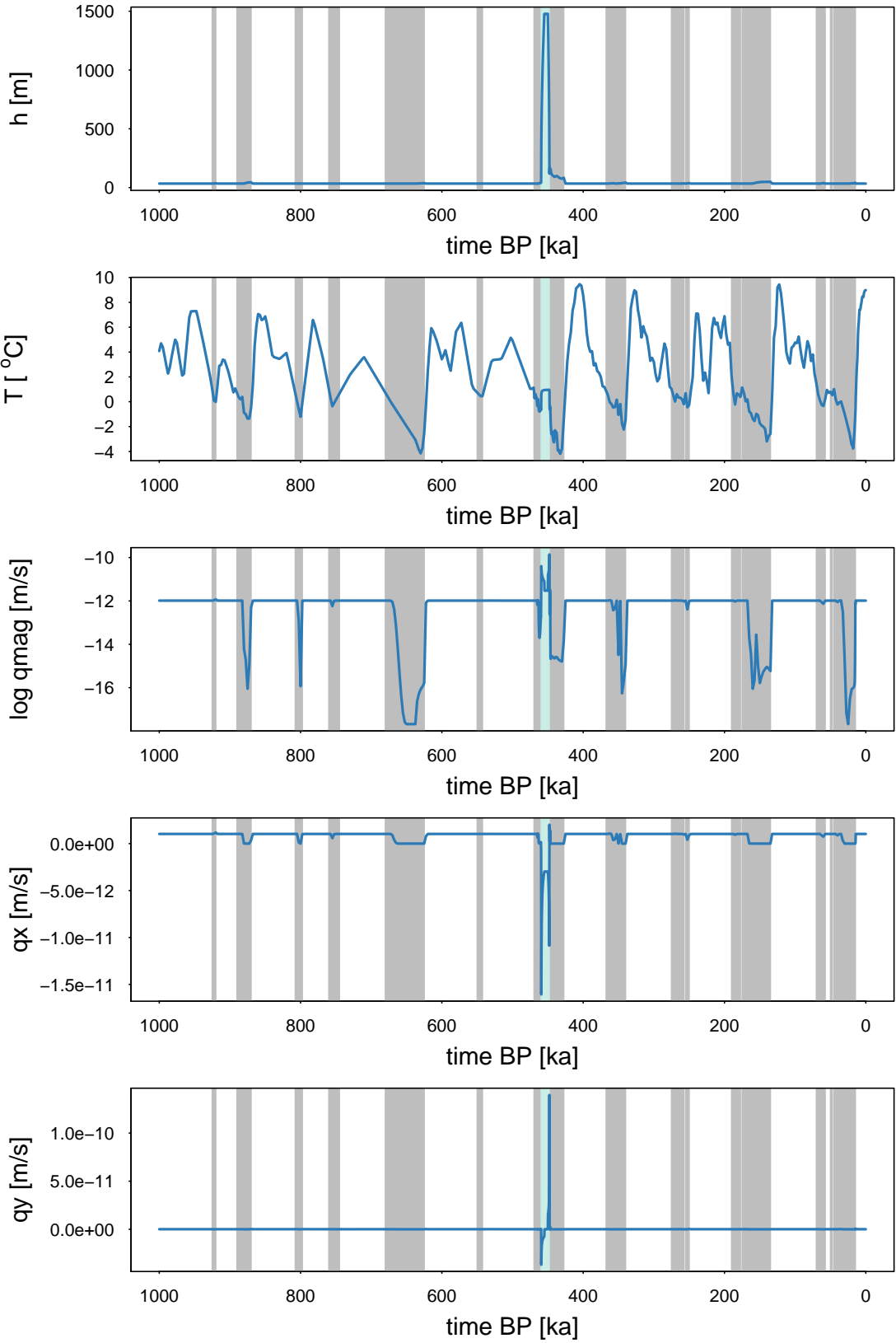
3.1.1 Run One Layer

depth = 10 m



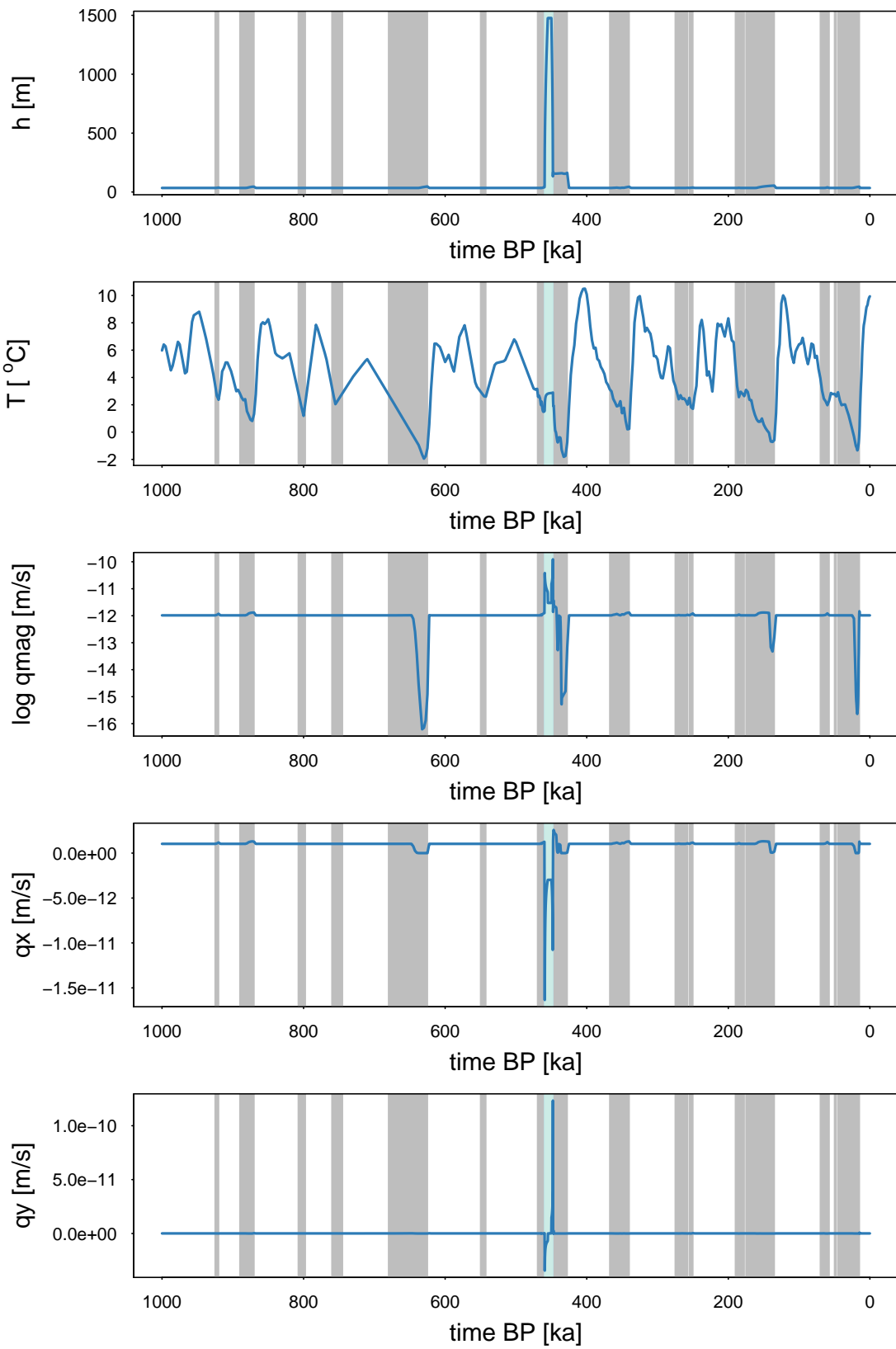
One Layer

depth = 100 m



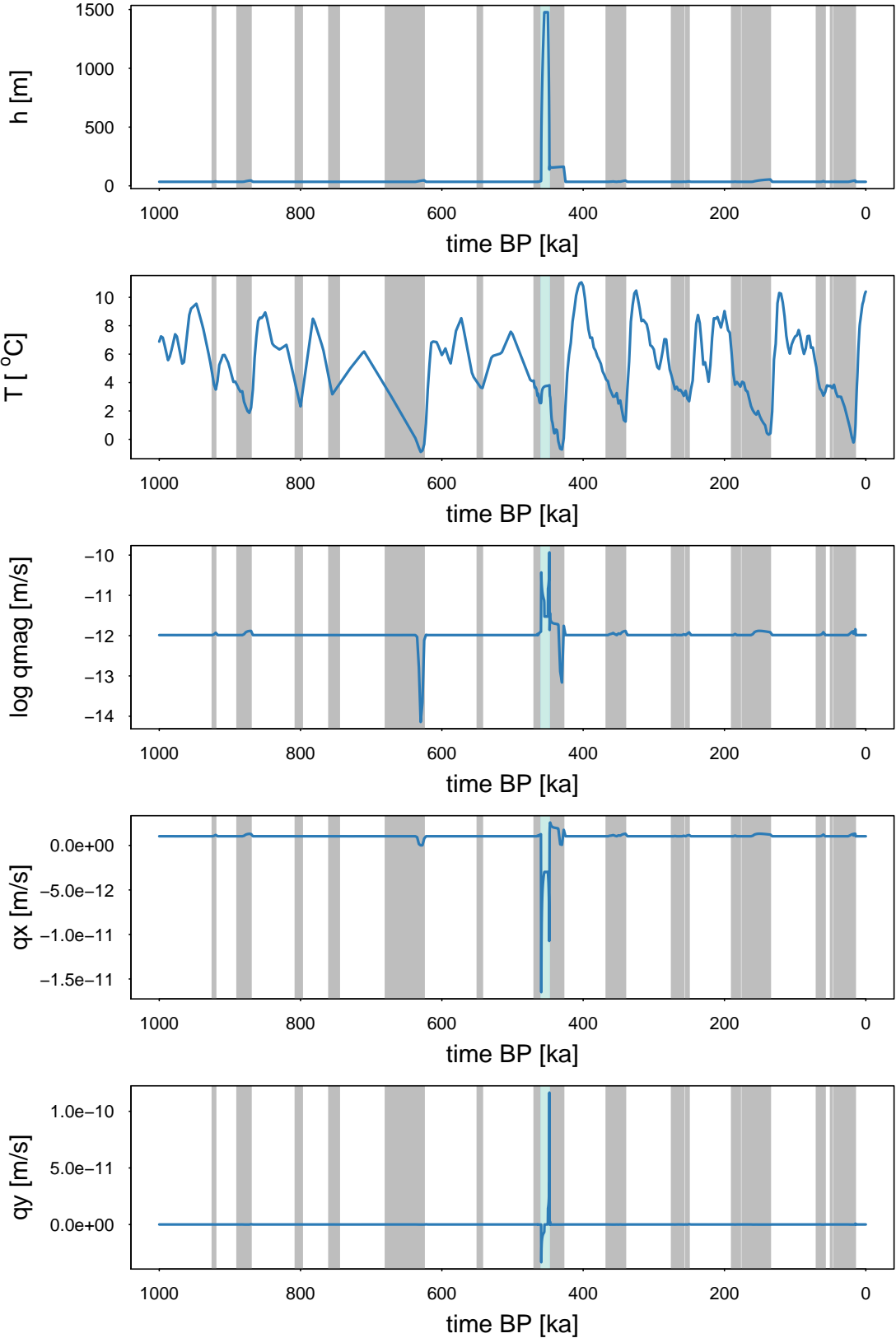
One Layer

depth = 300 m



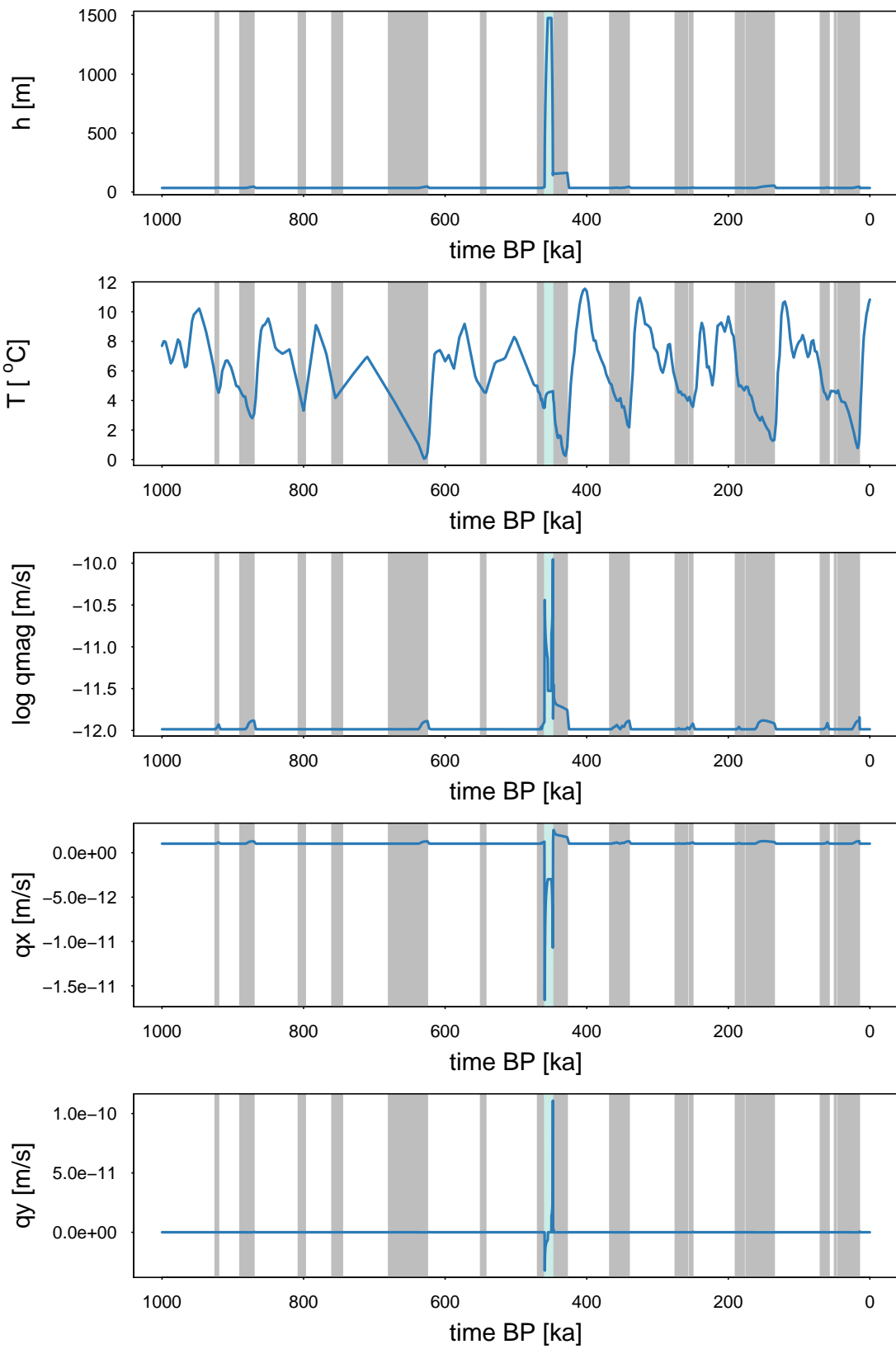
One Layer

depth = 400 m



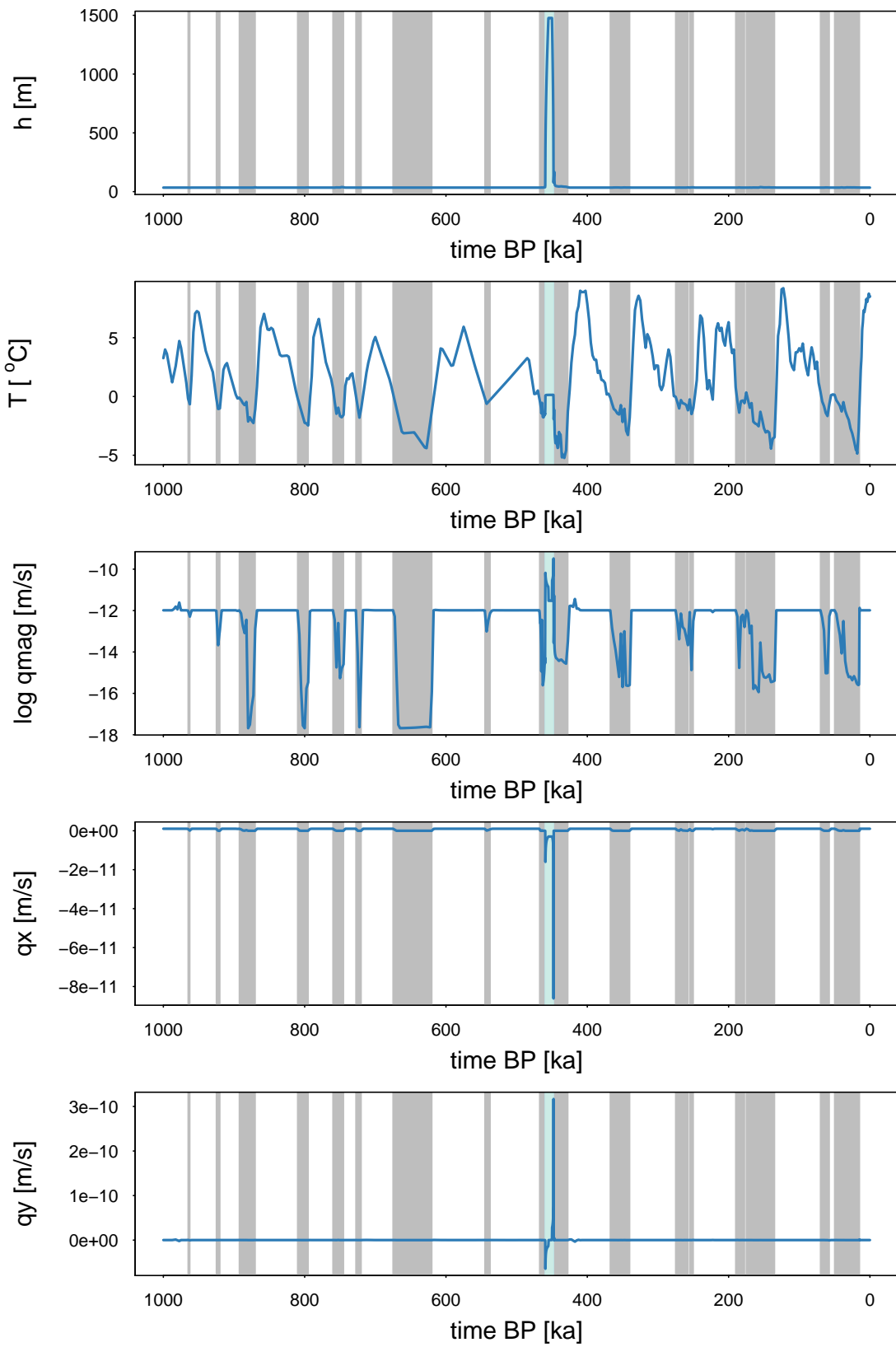
One Layer

depth = 500 m



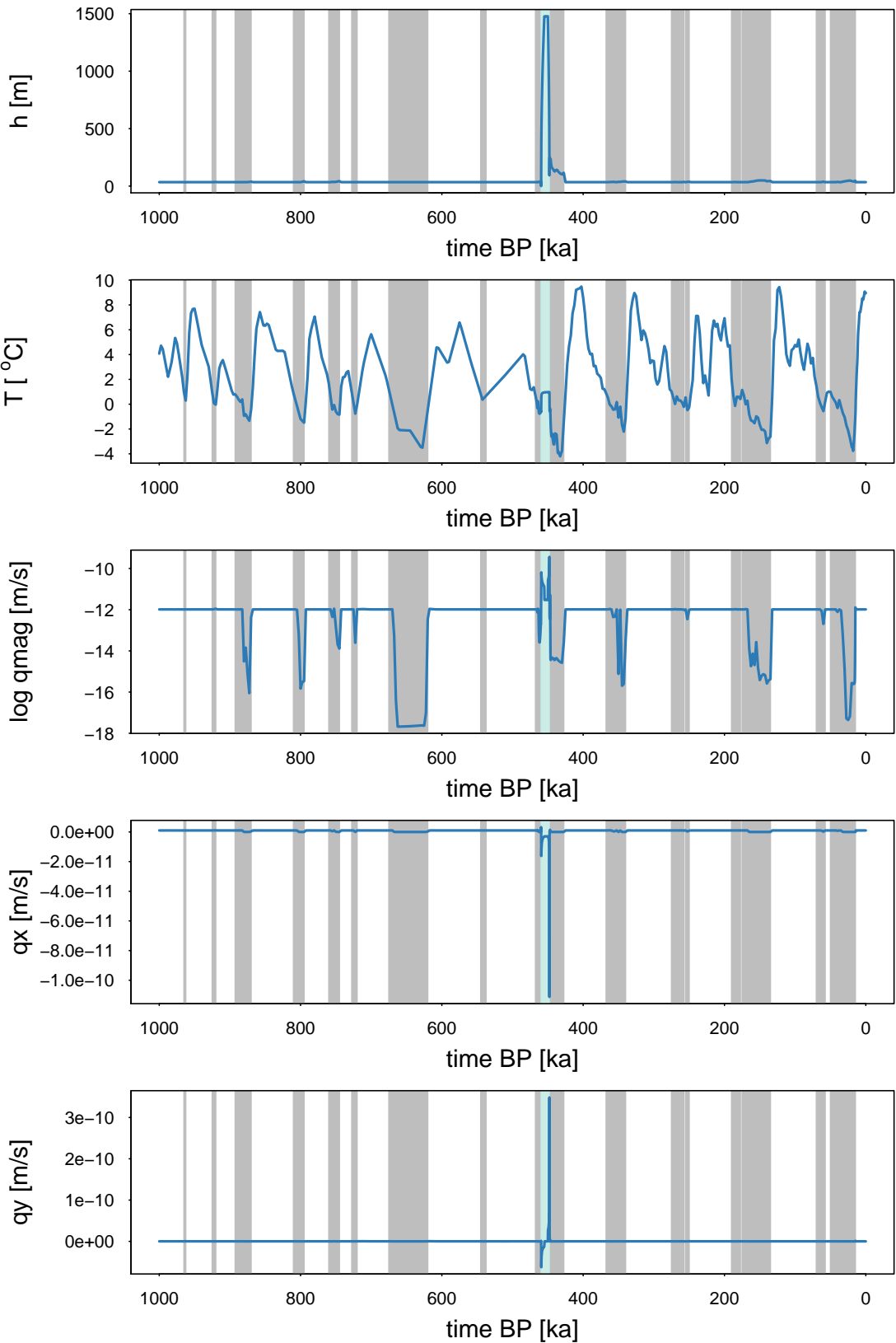
3.1.2 Run One Layer Loading

depth = 10 m



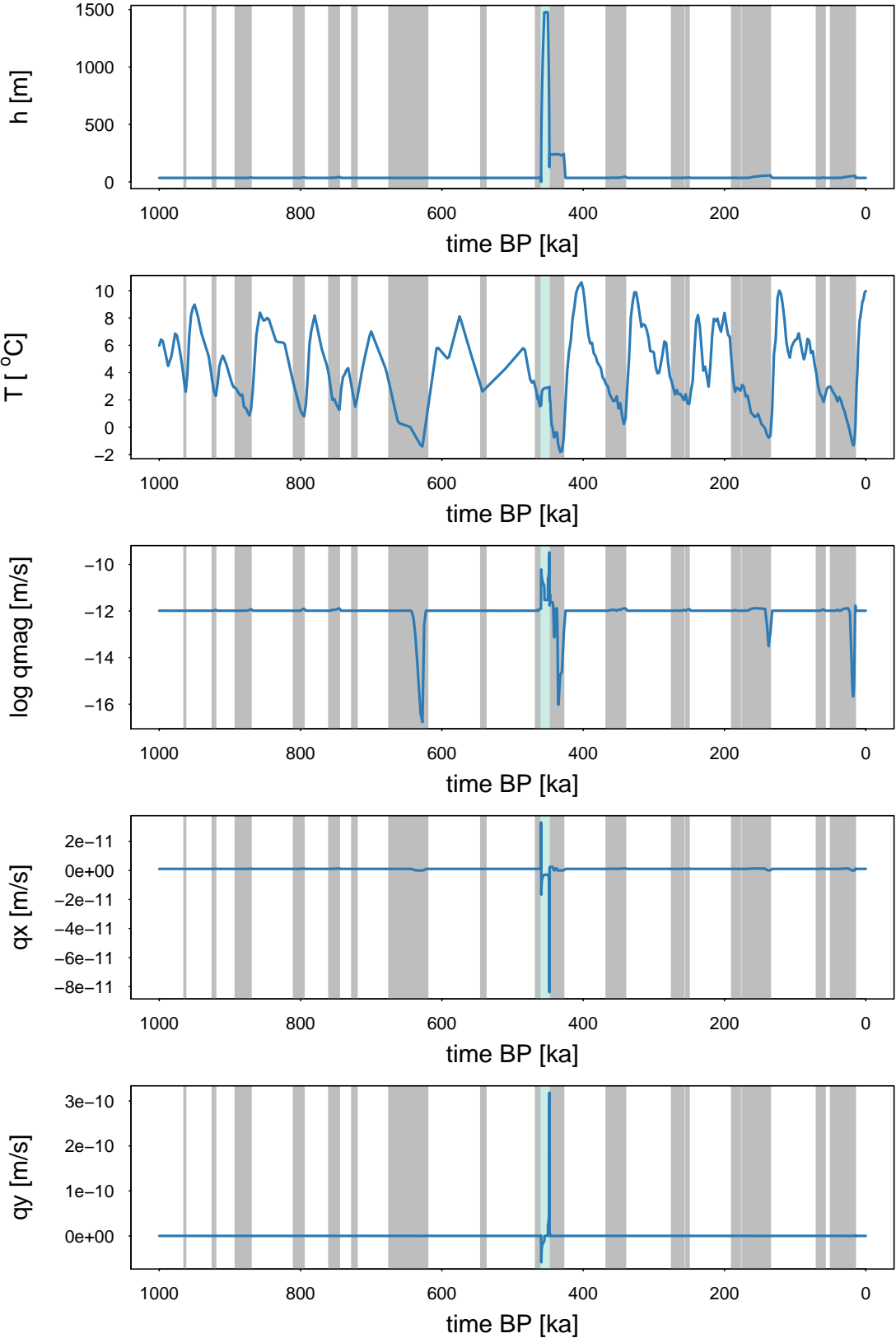
One Layer Loading

depth = 100 m



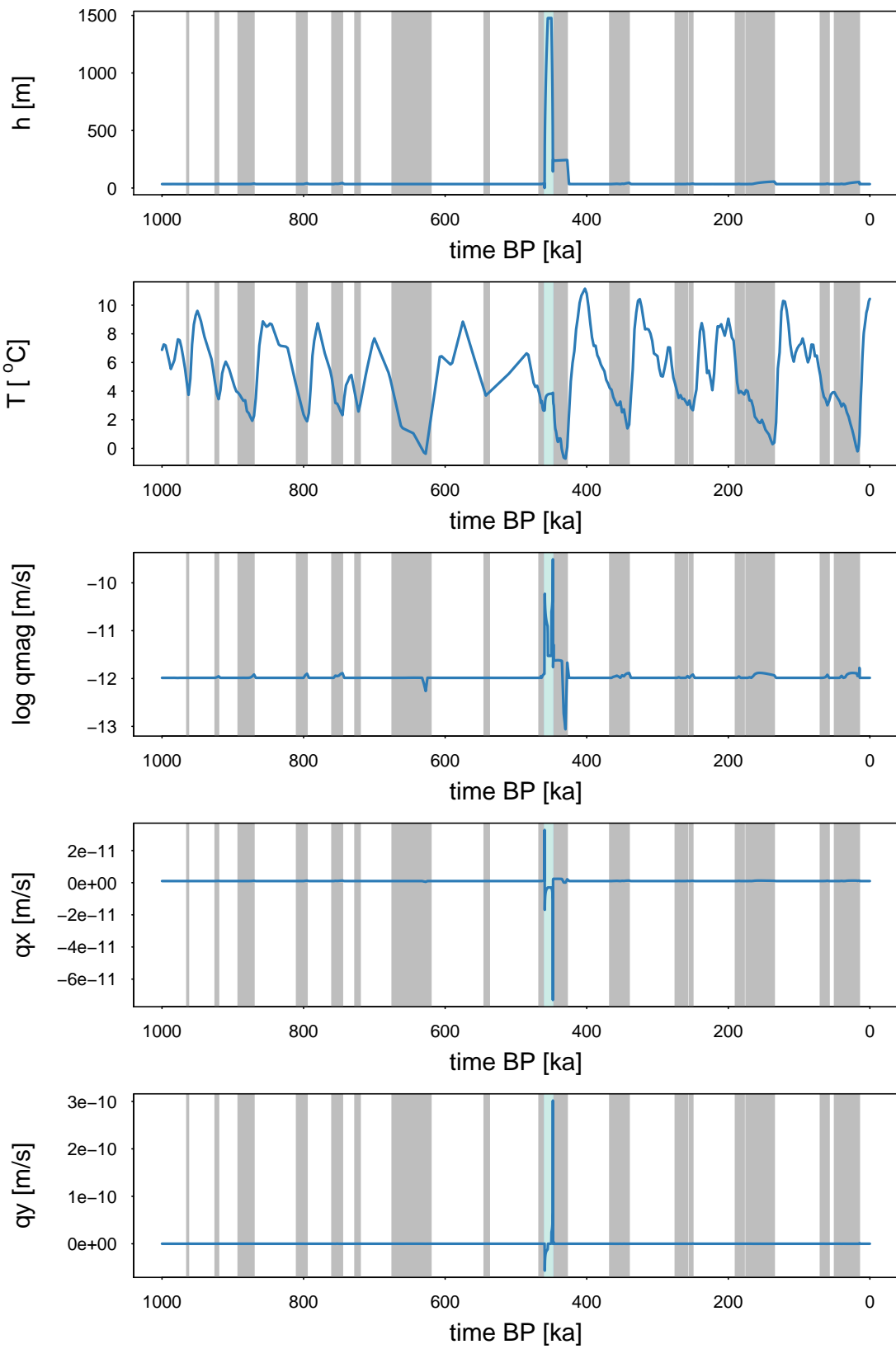
One Layer Loading

depth = 300 m



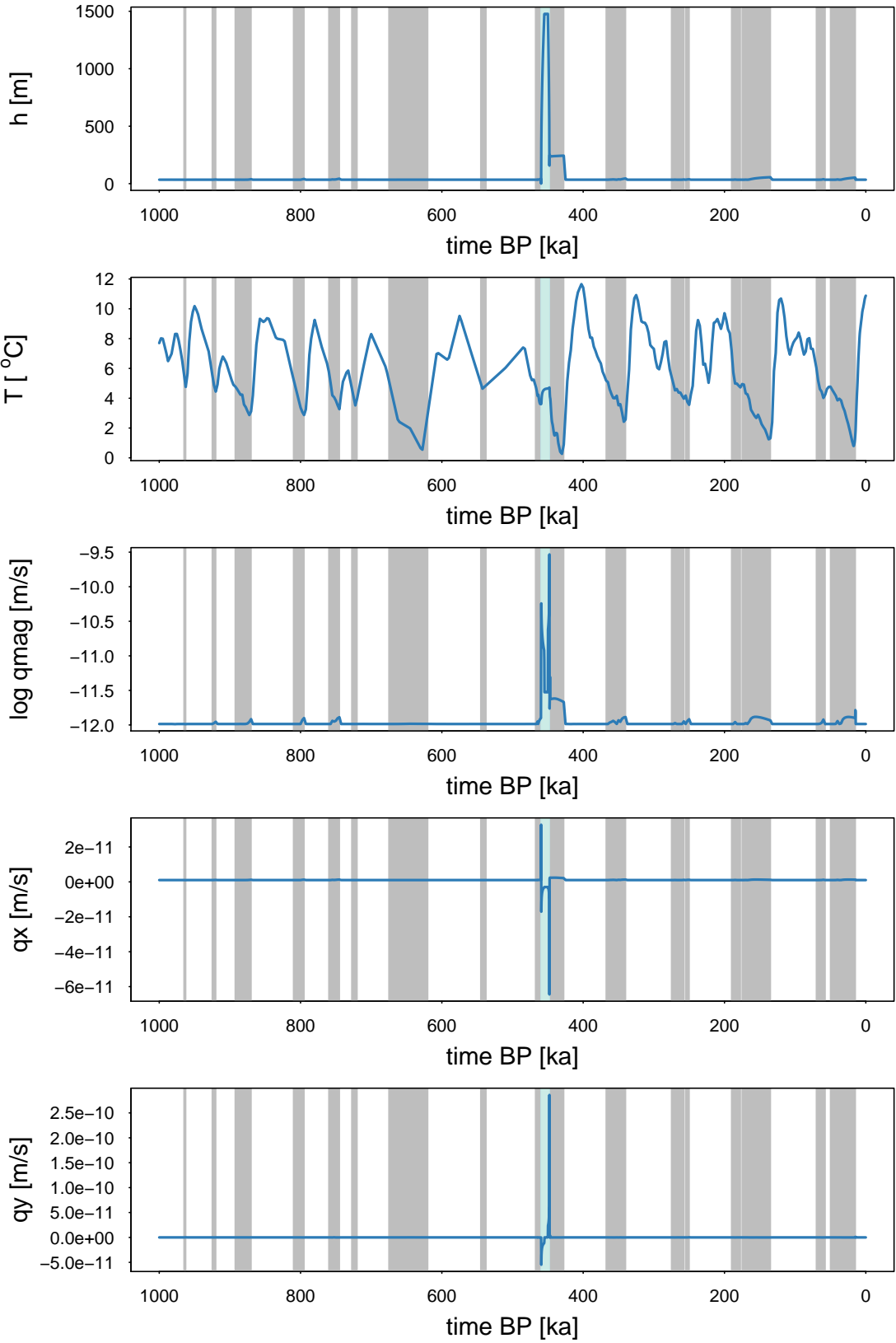
One Layer Loading

depth = 400 m



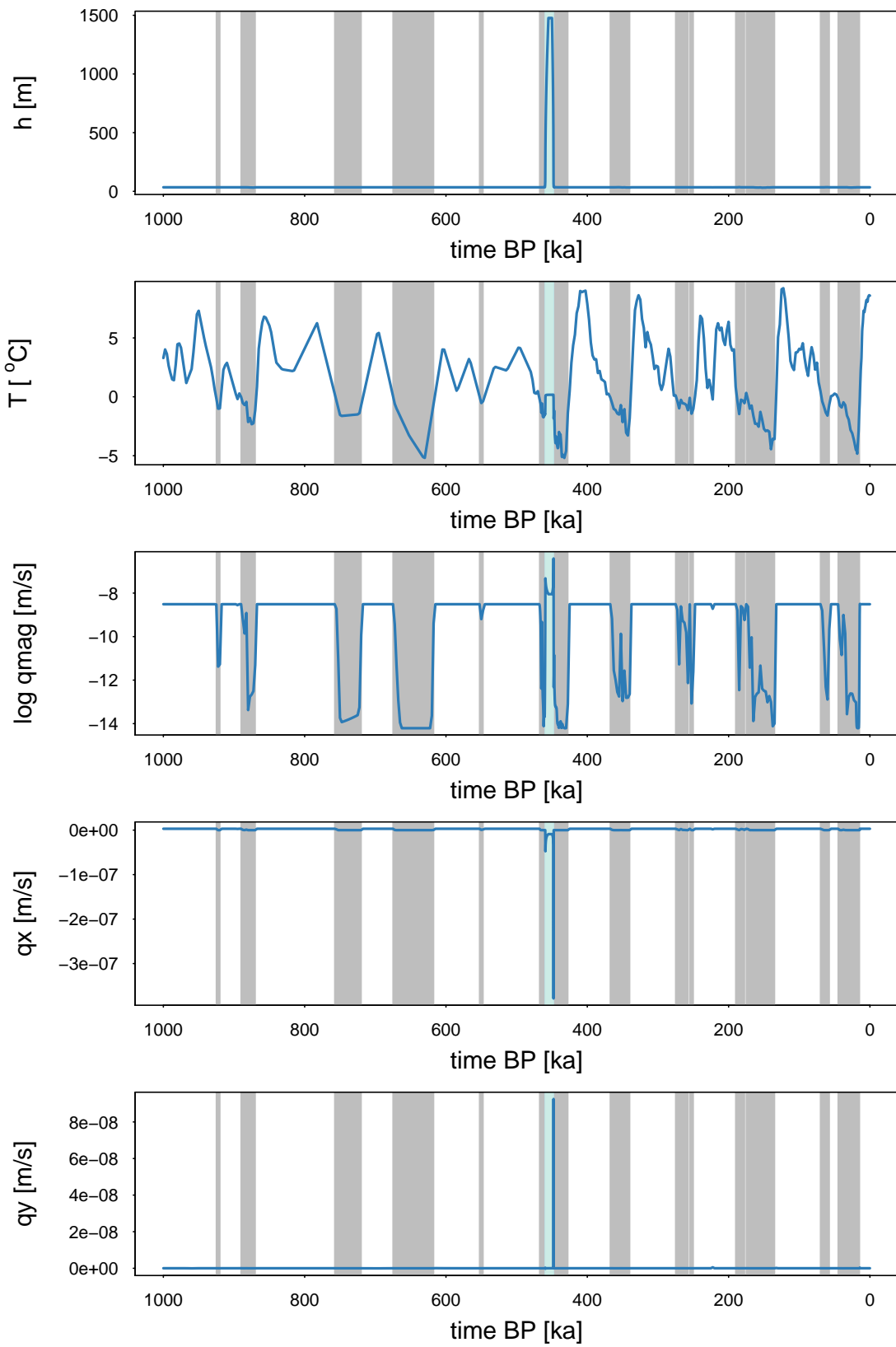
One Layer Loading

depth = 500 m



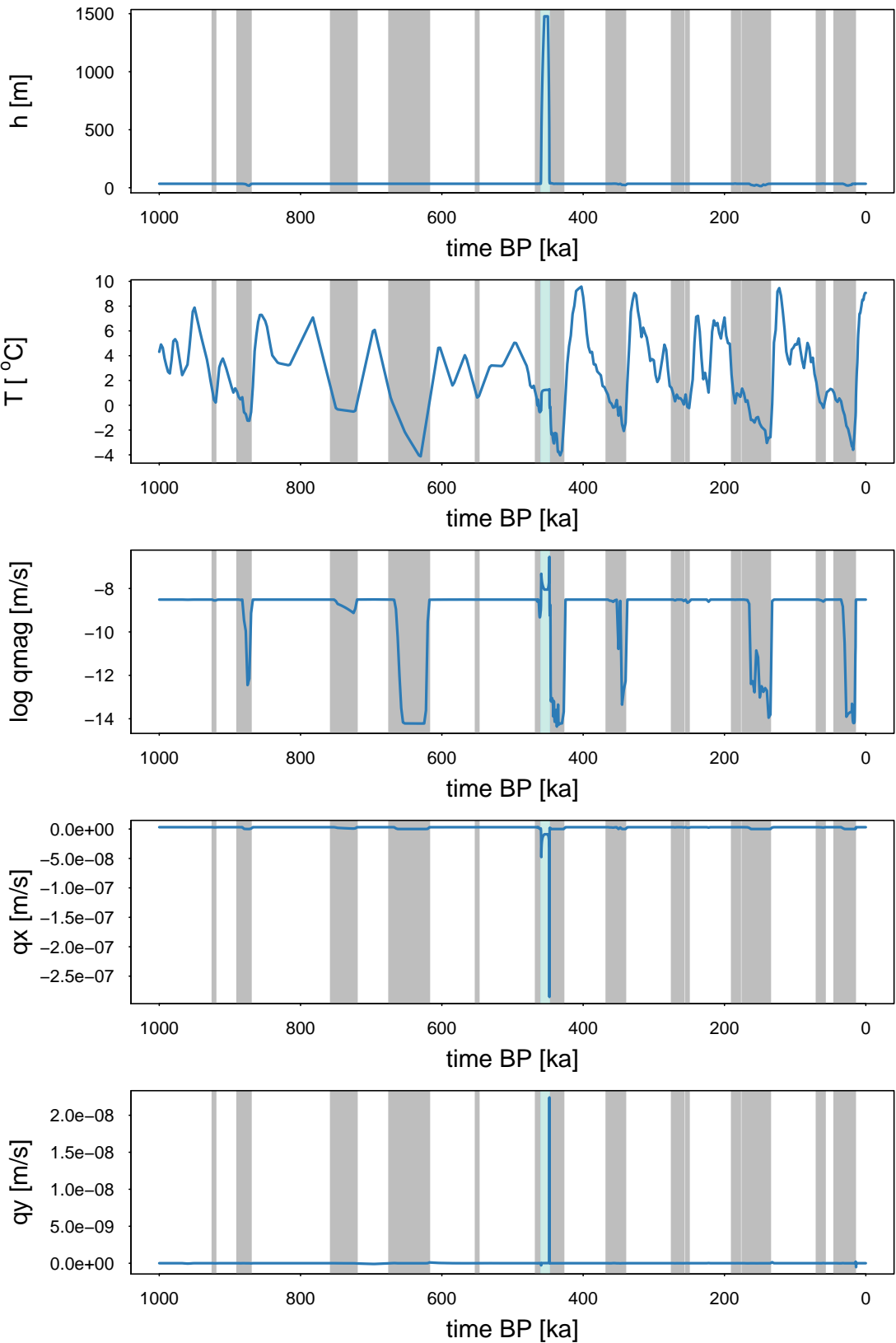
3.1.3 Run Case 1 Loading

depth = 10 m



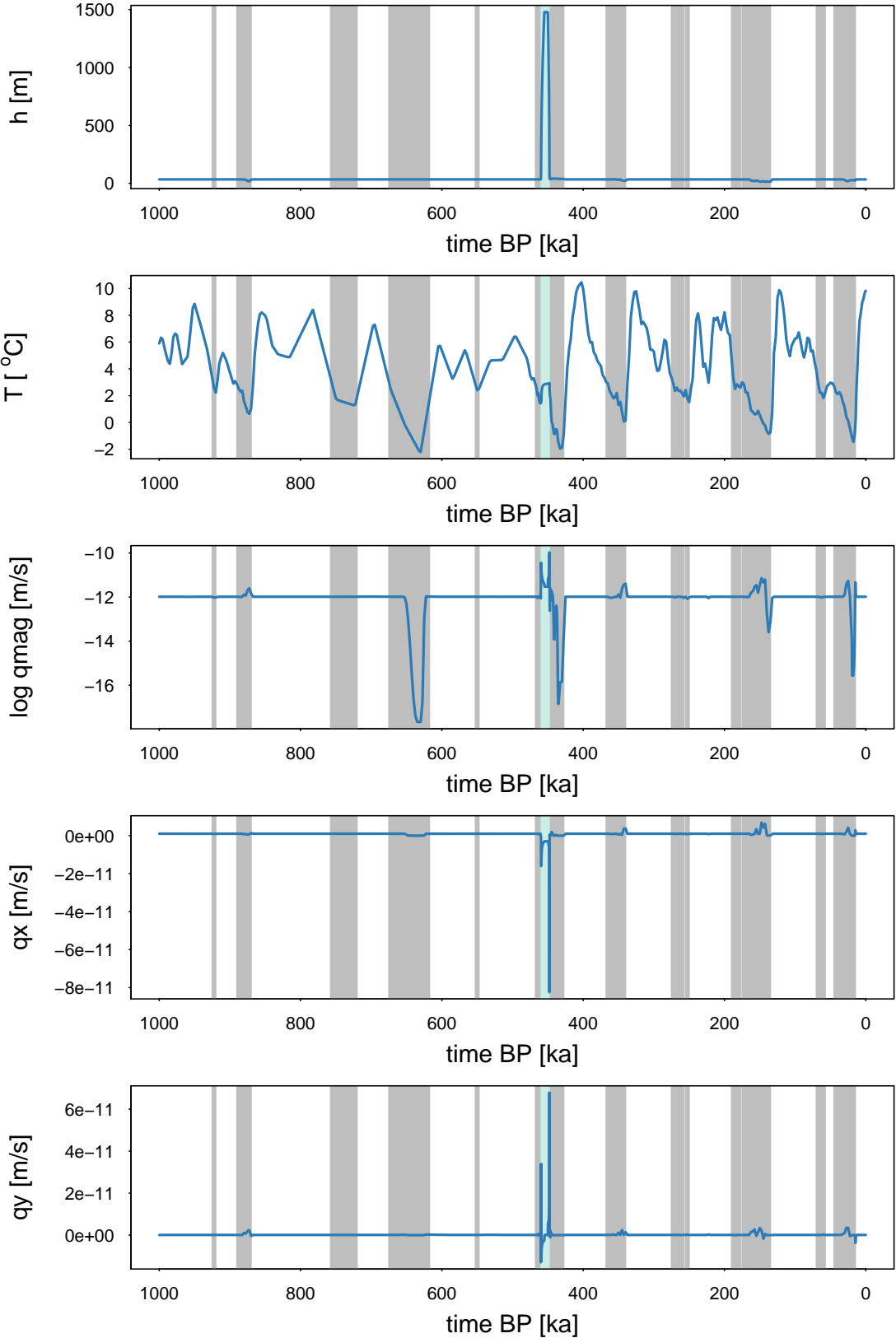
Case 1 Loading

depth = 100 m



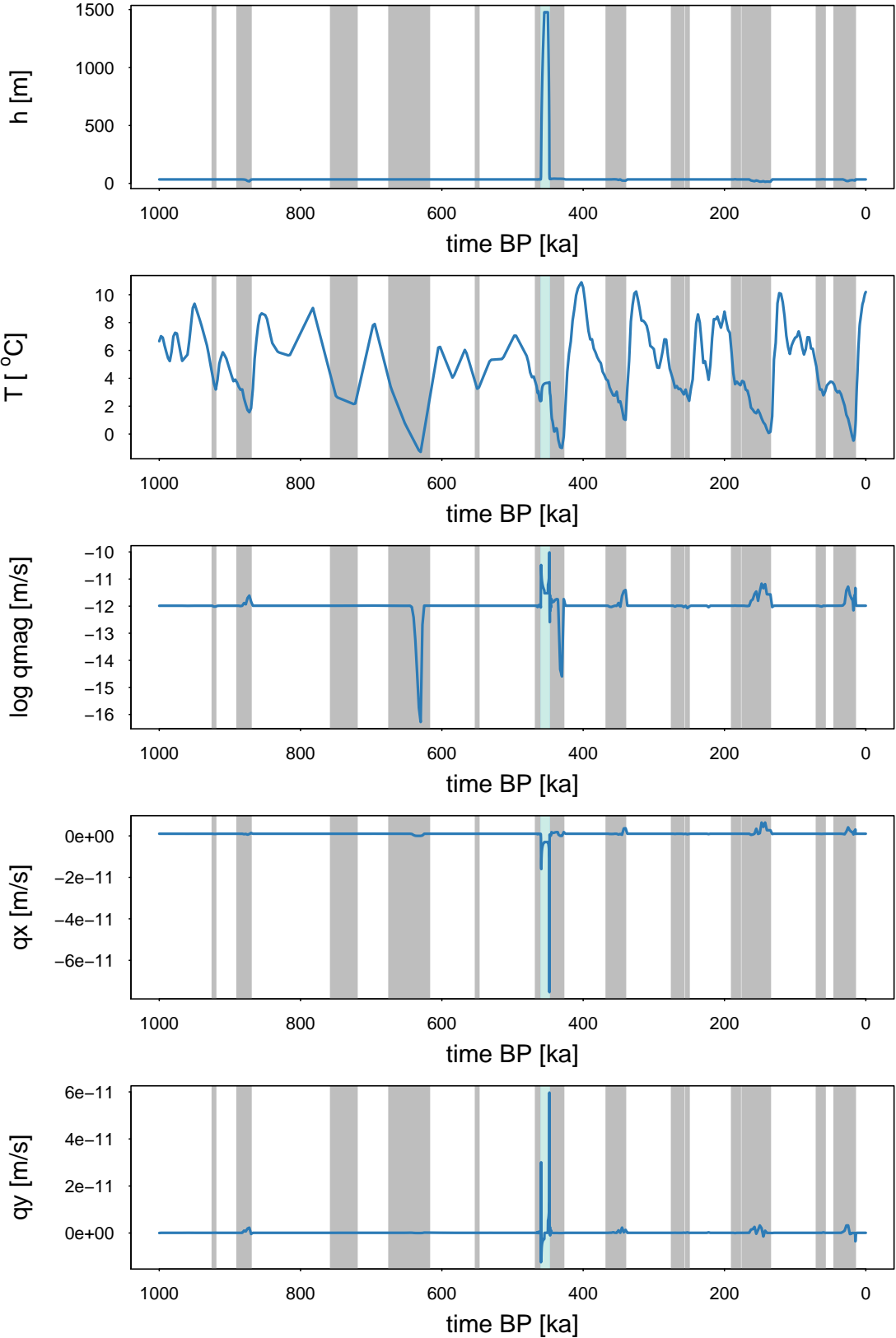
Case 1 Loading

depth = 300 m



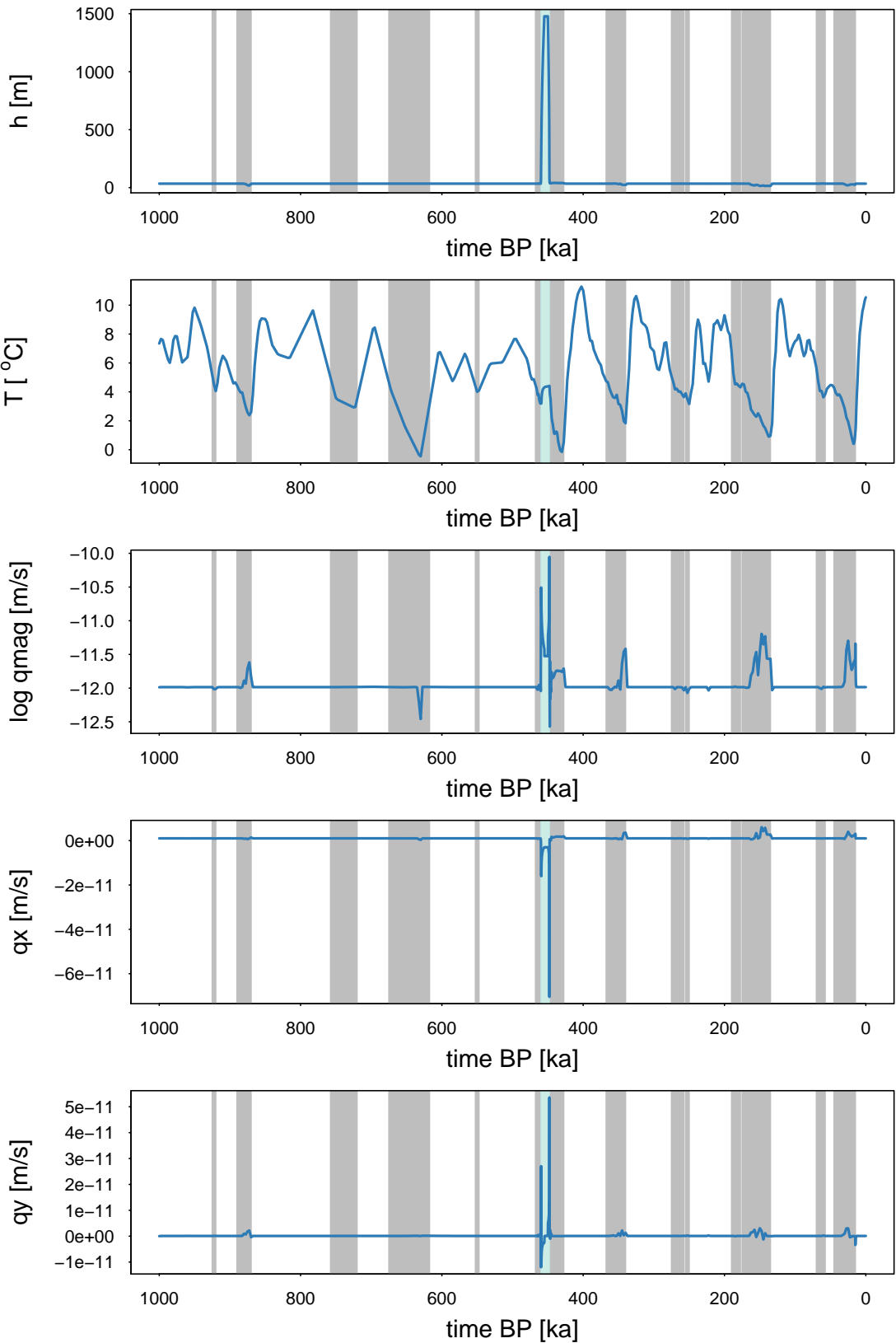
Case 1 Loading

depth = 400 m



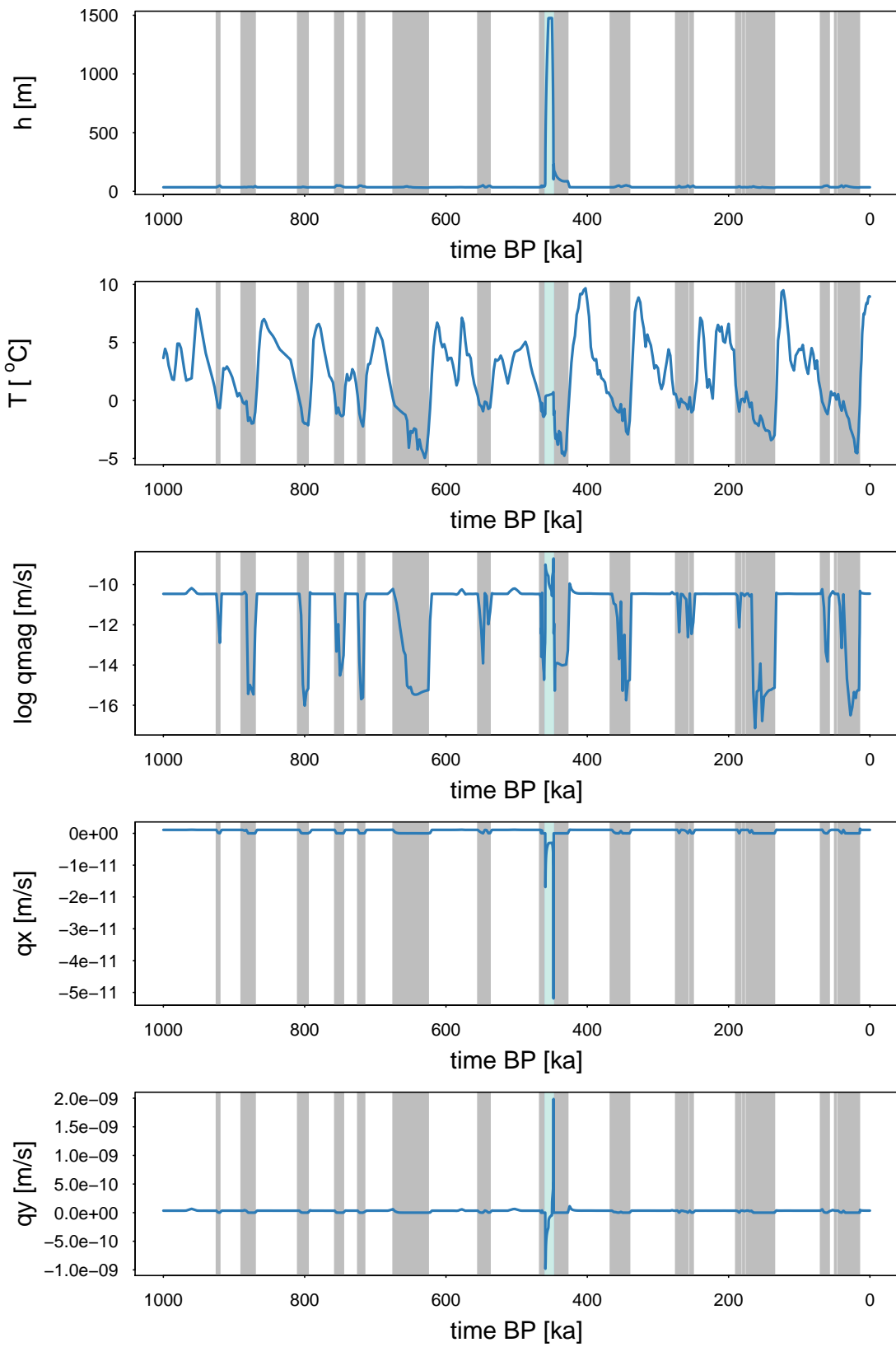
Case 1 Loading

depth = 500 m



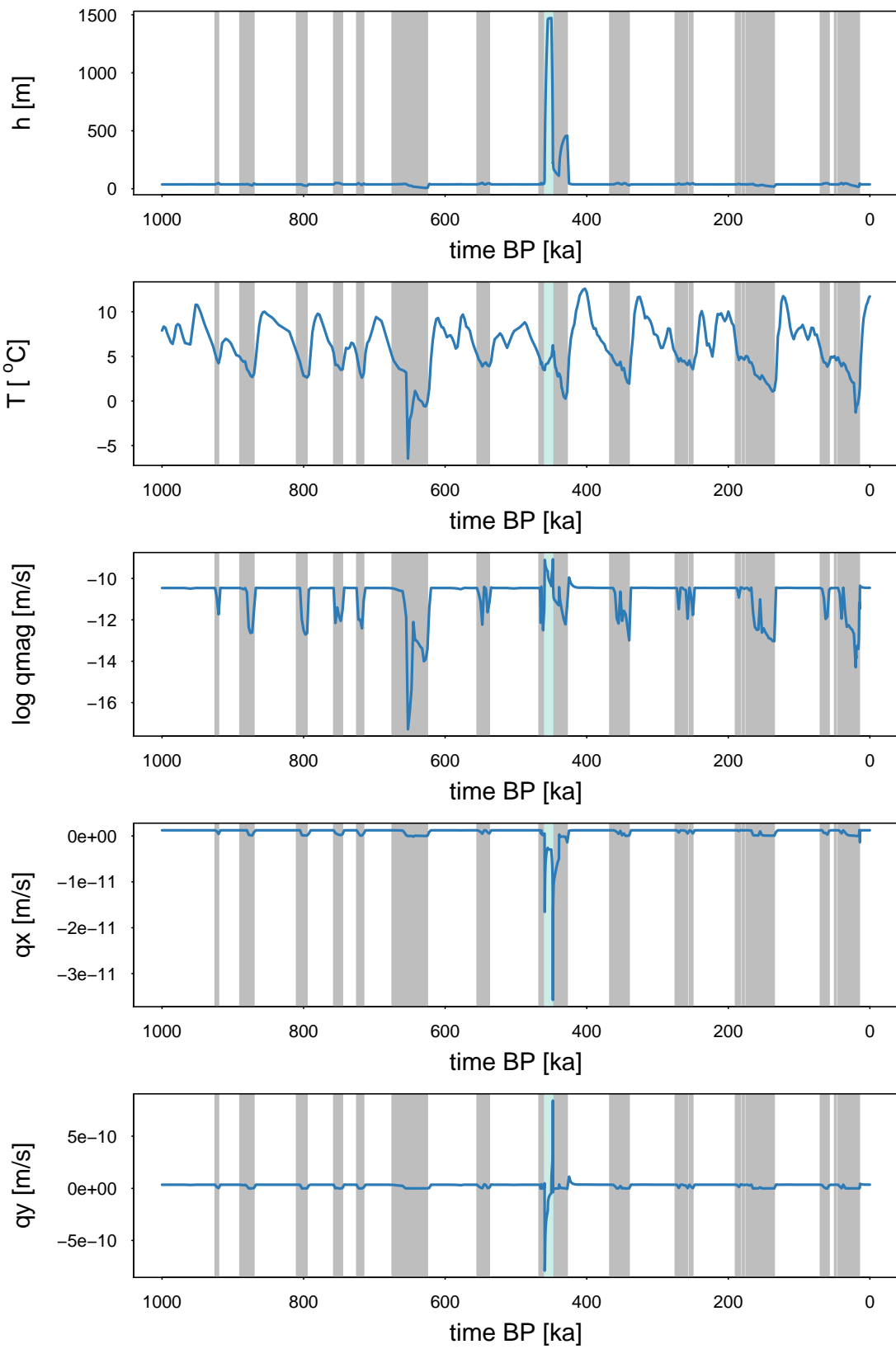
3.1.4 Run Case 2

depth = 10 m



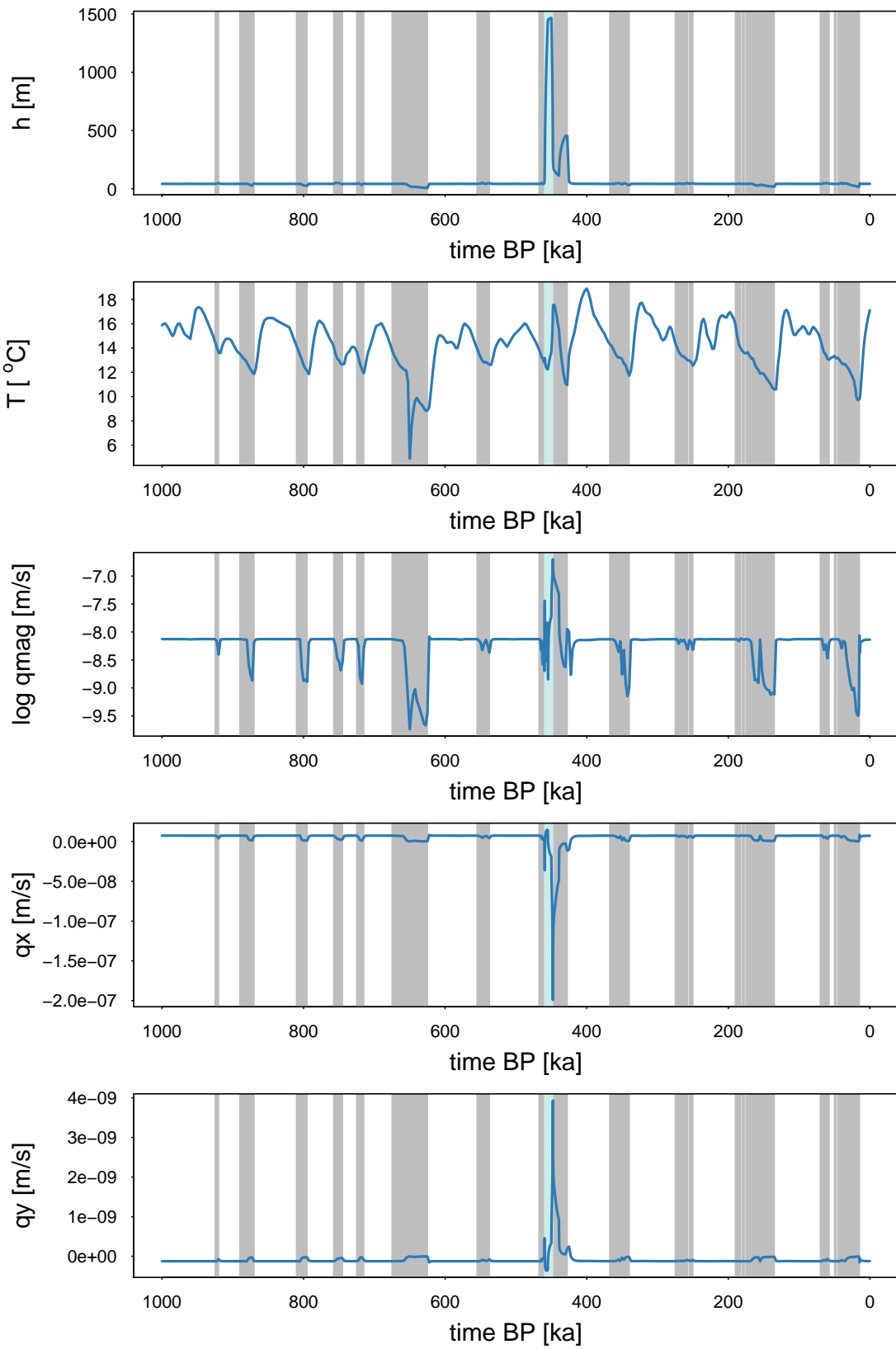
Case 2

depth = 100 m



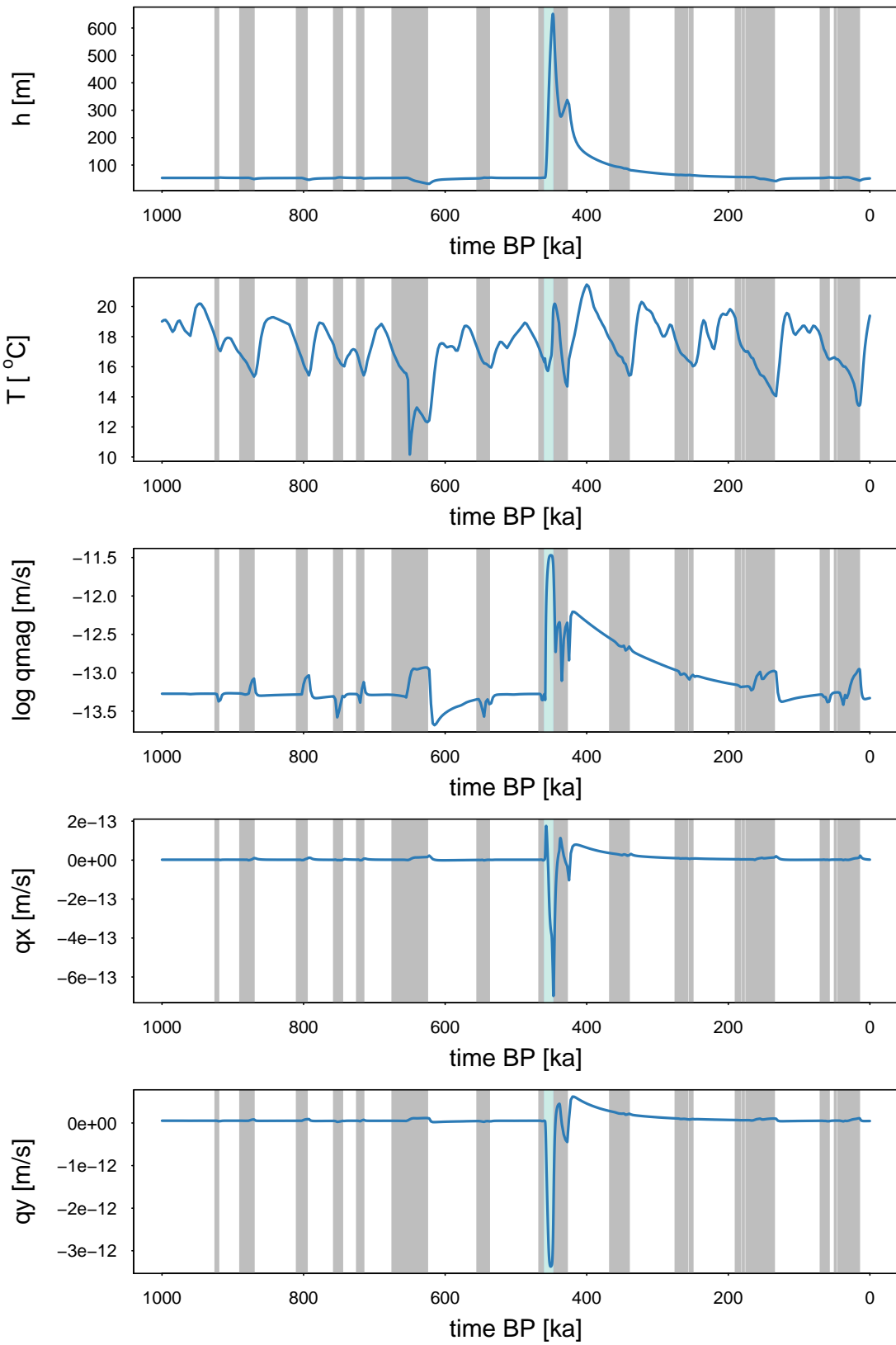
Case 2

depth = 300 m



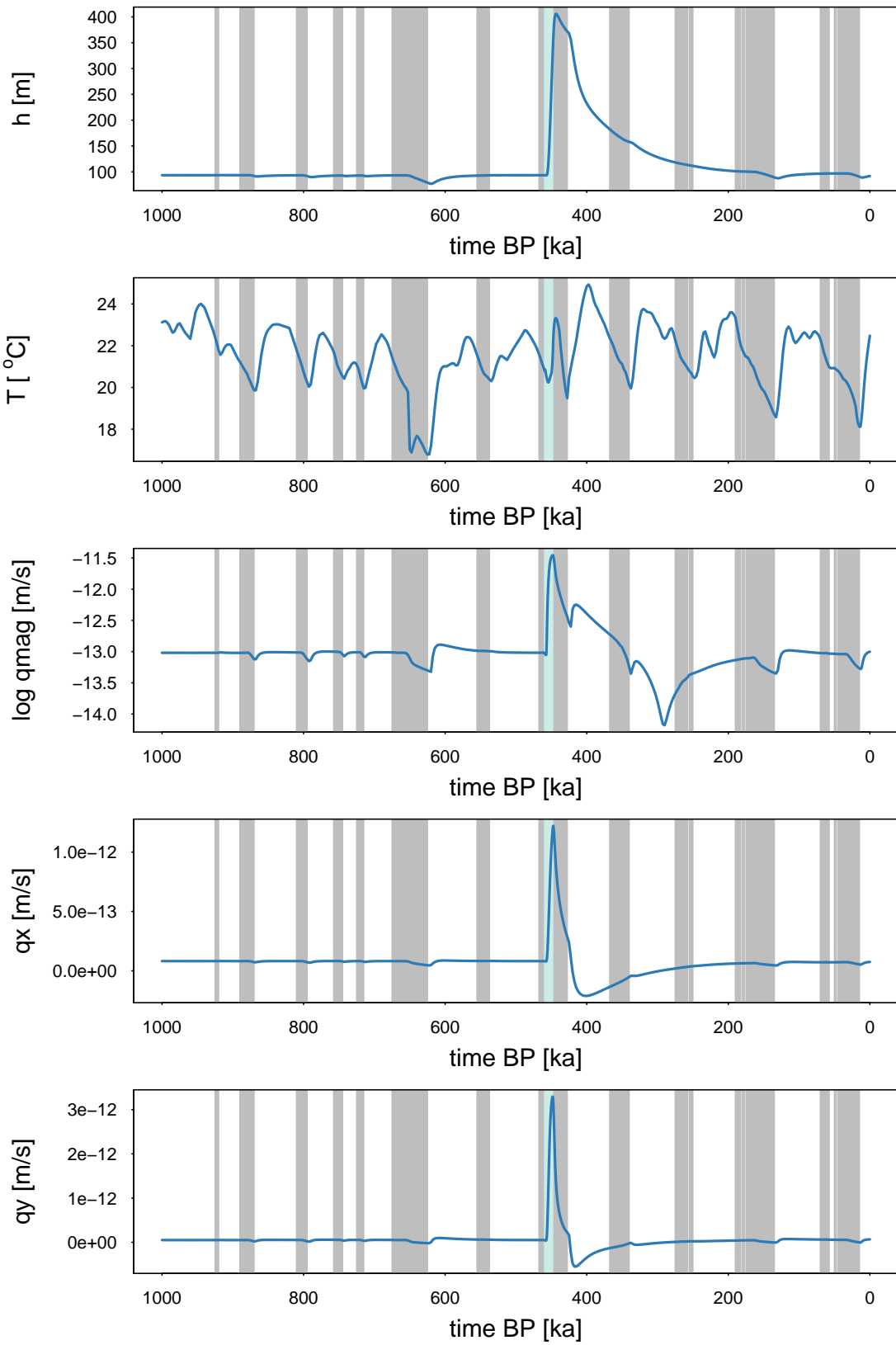
Case 2

depth = 400 m



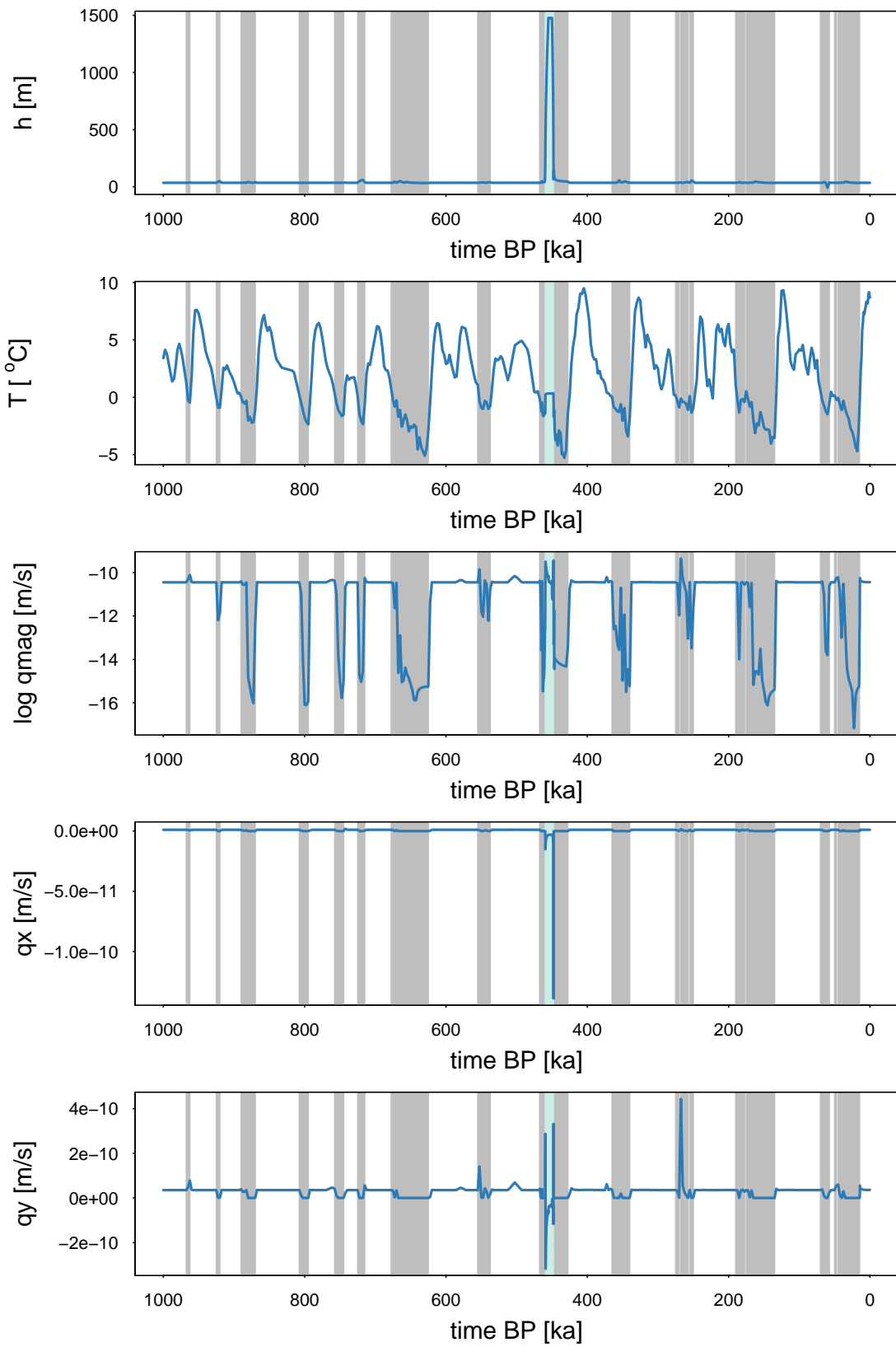
Case 2

depth = 500 m



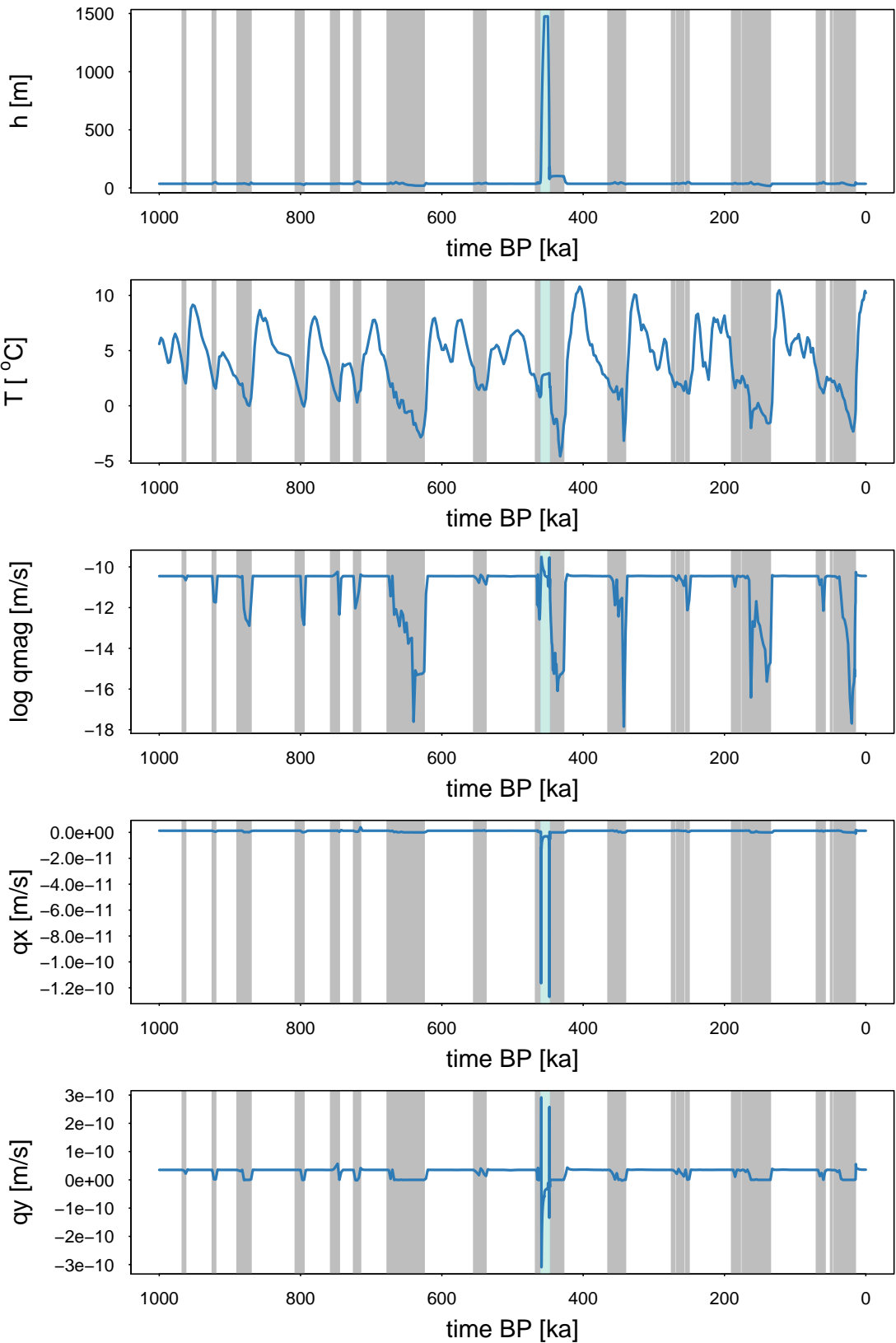
3.1.5 Run Case 2 Loading

depth = 10 m



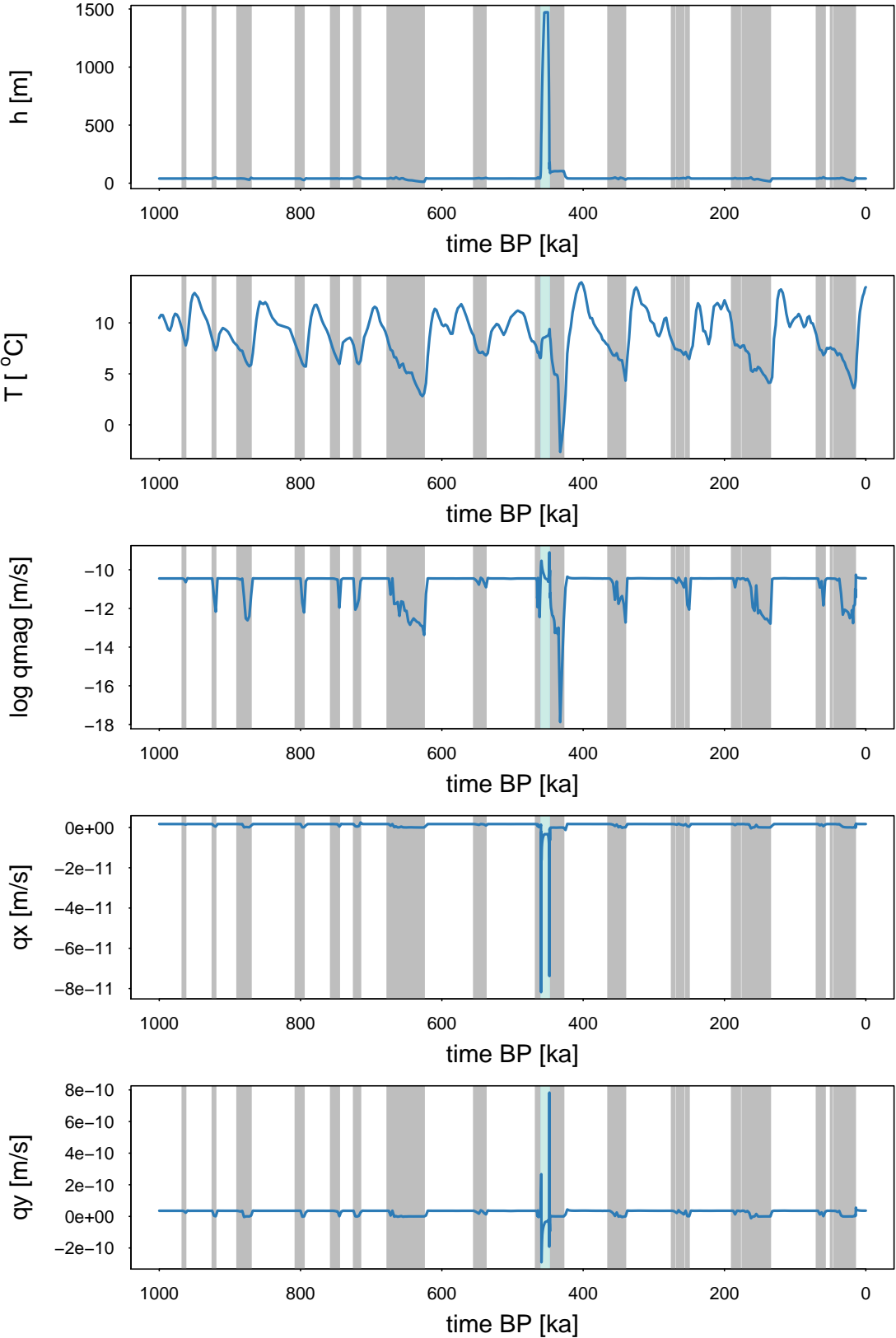
Case 2 Loading

depth = 100 m



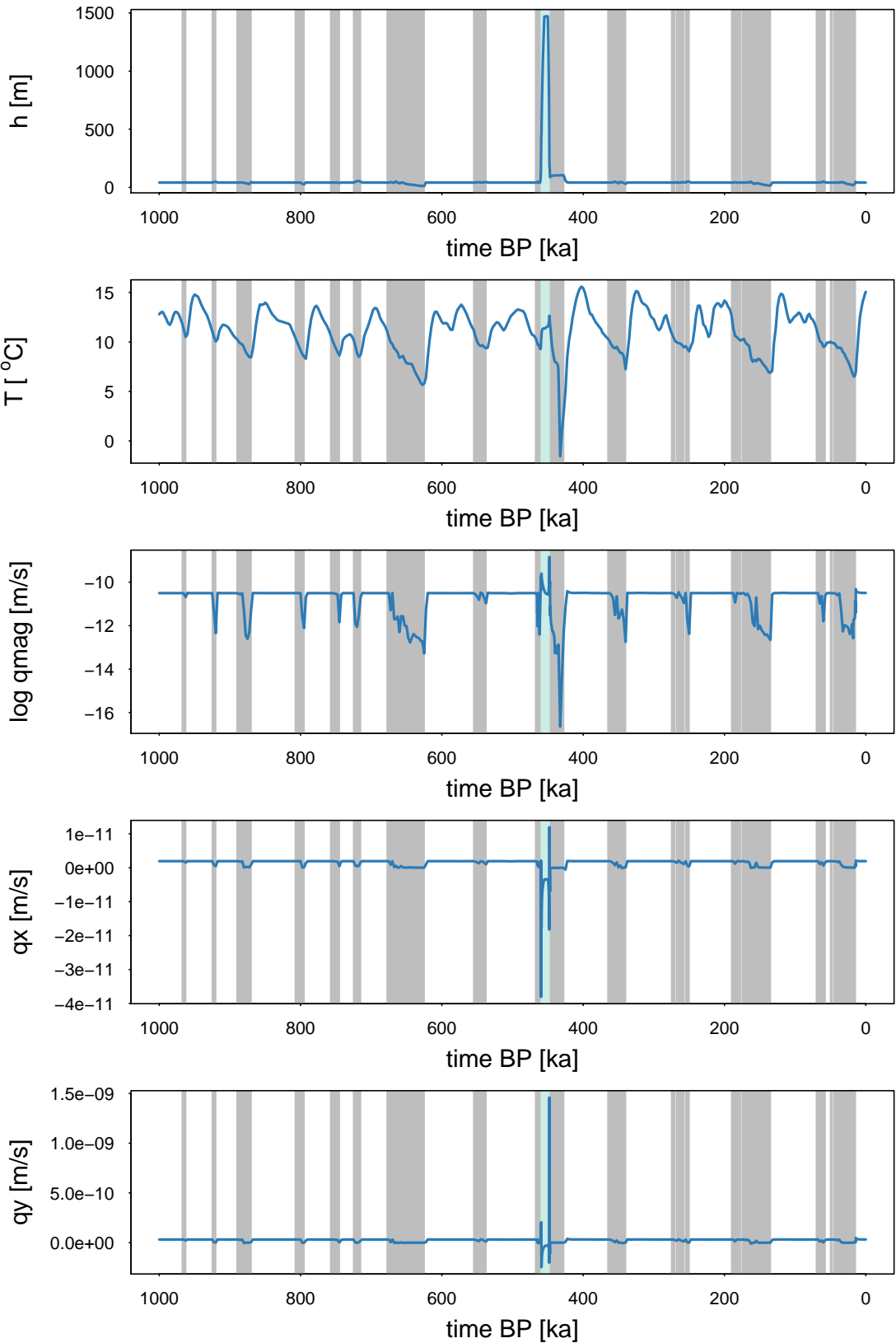
Case 2 Loading

depth = 300 m



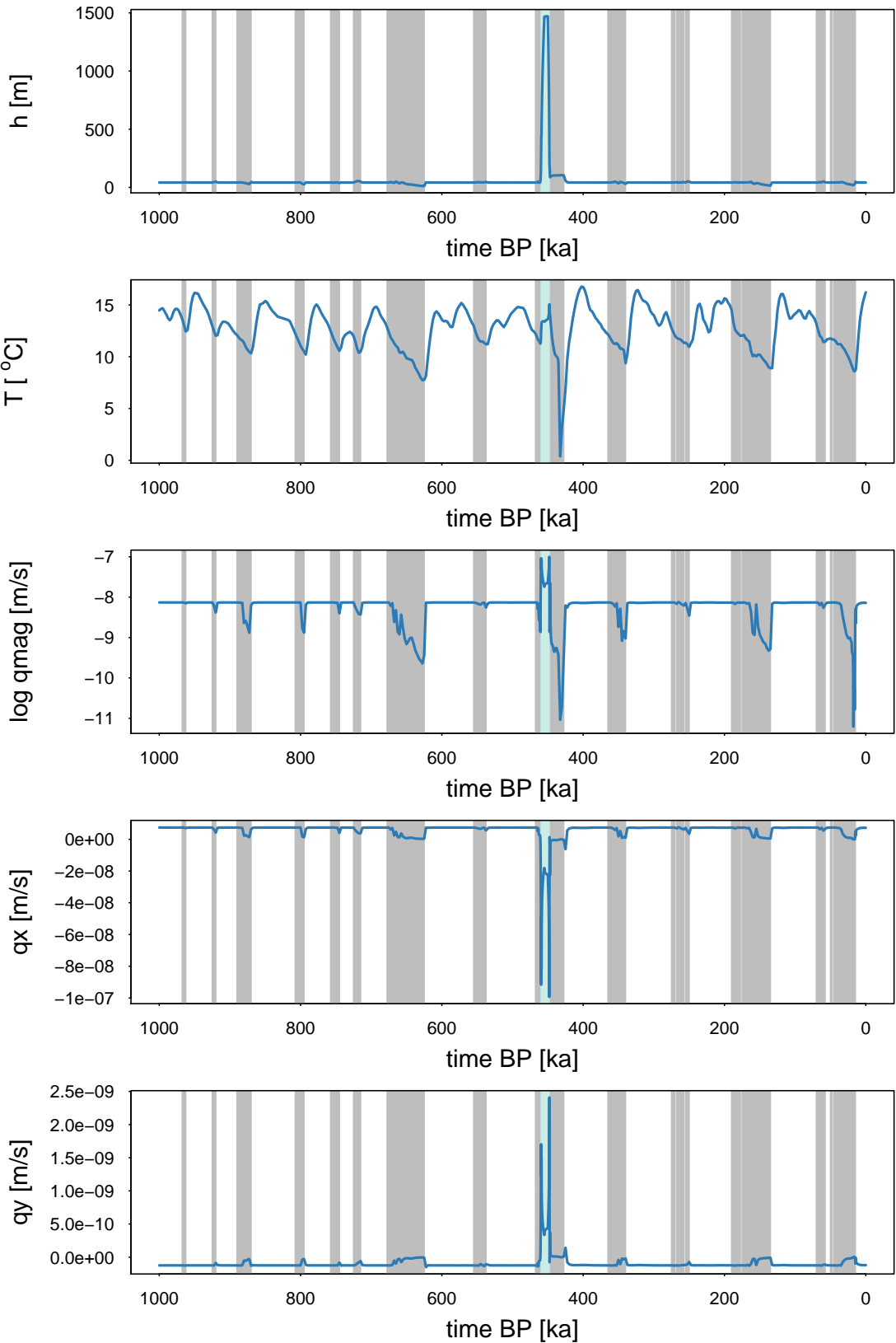
Case 2 Loading

depth = 400 m



Case 2 Loading

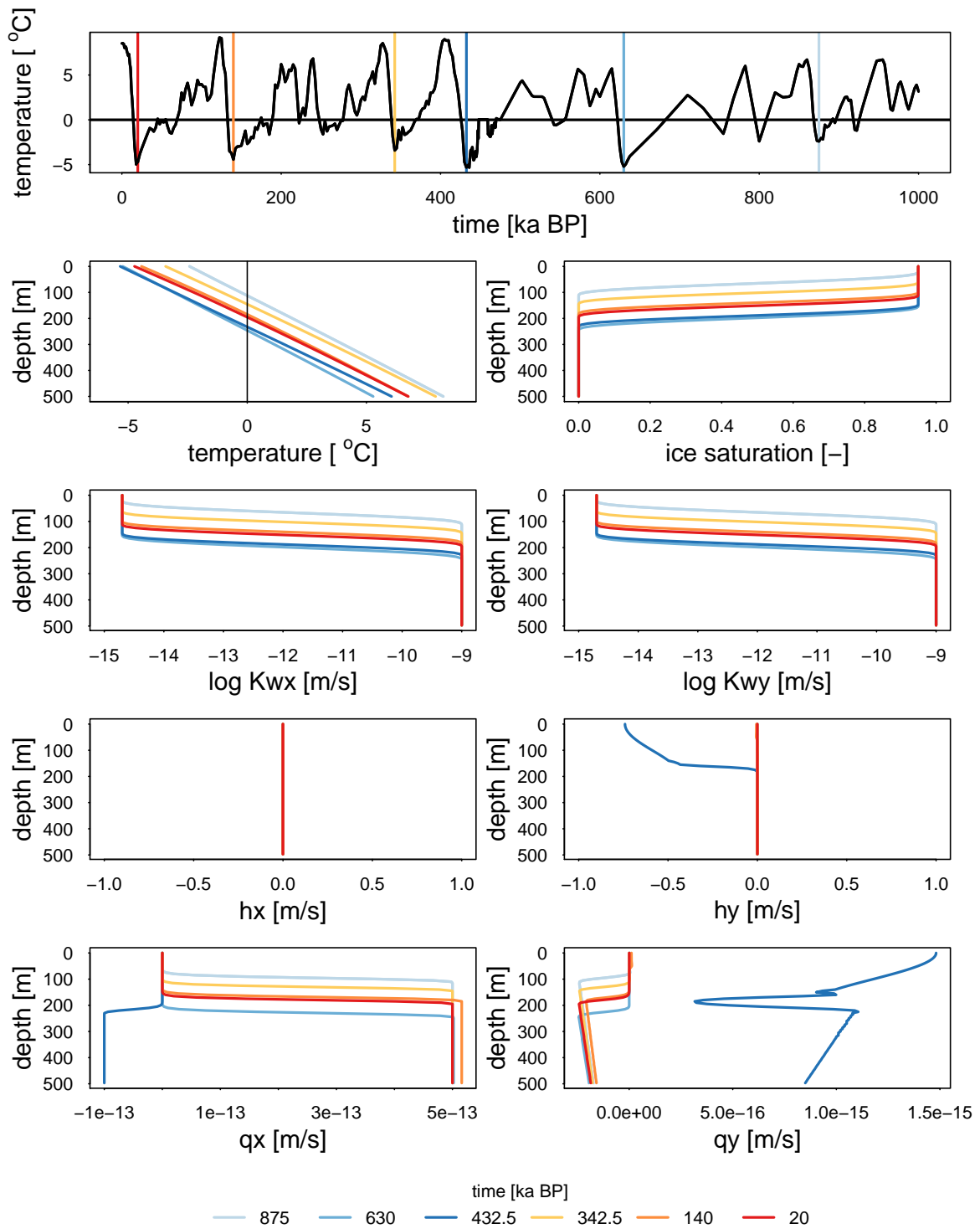
depth = 500 m



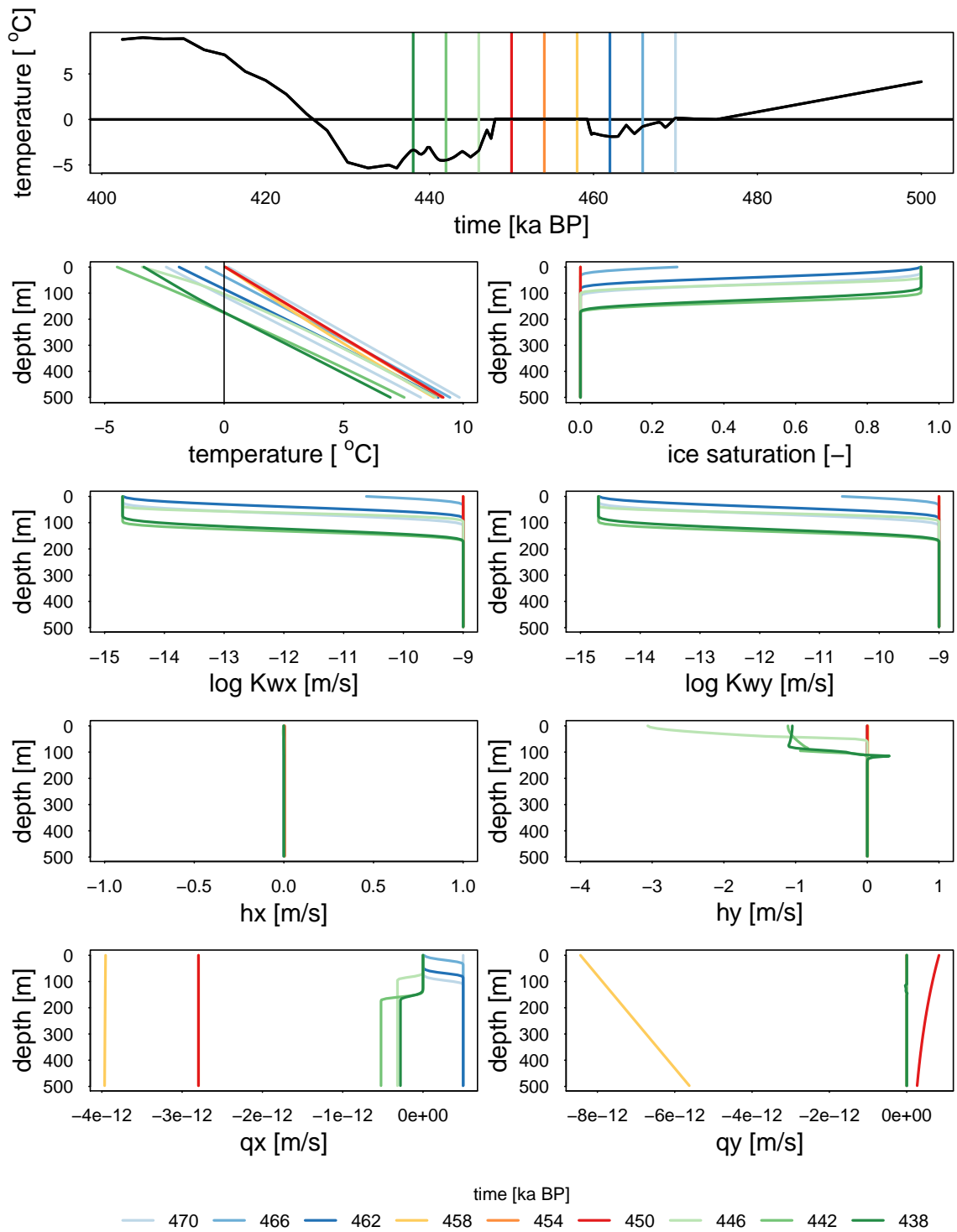
3.2 Depth Profiles at the location of the Repository

This section presents depth profiles of temperature, ice saturation, hydraulic conductivity in x and y, hydraulic head gradient in x and y, lateral flow (qx) and vertical flow (qy) at times outlined in the temperature time series at the top of the page. Profiles at 7, 9 and 13 of the model domain (Figure 7) are presented for the model runs described in Section 4.4.2 and in Table 4.

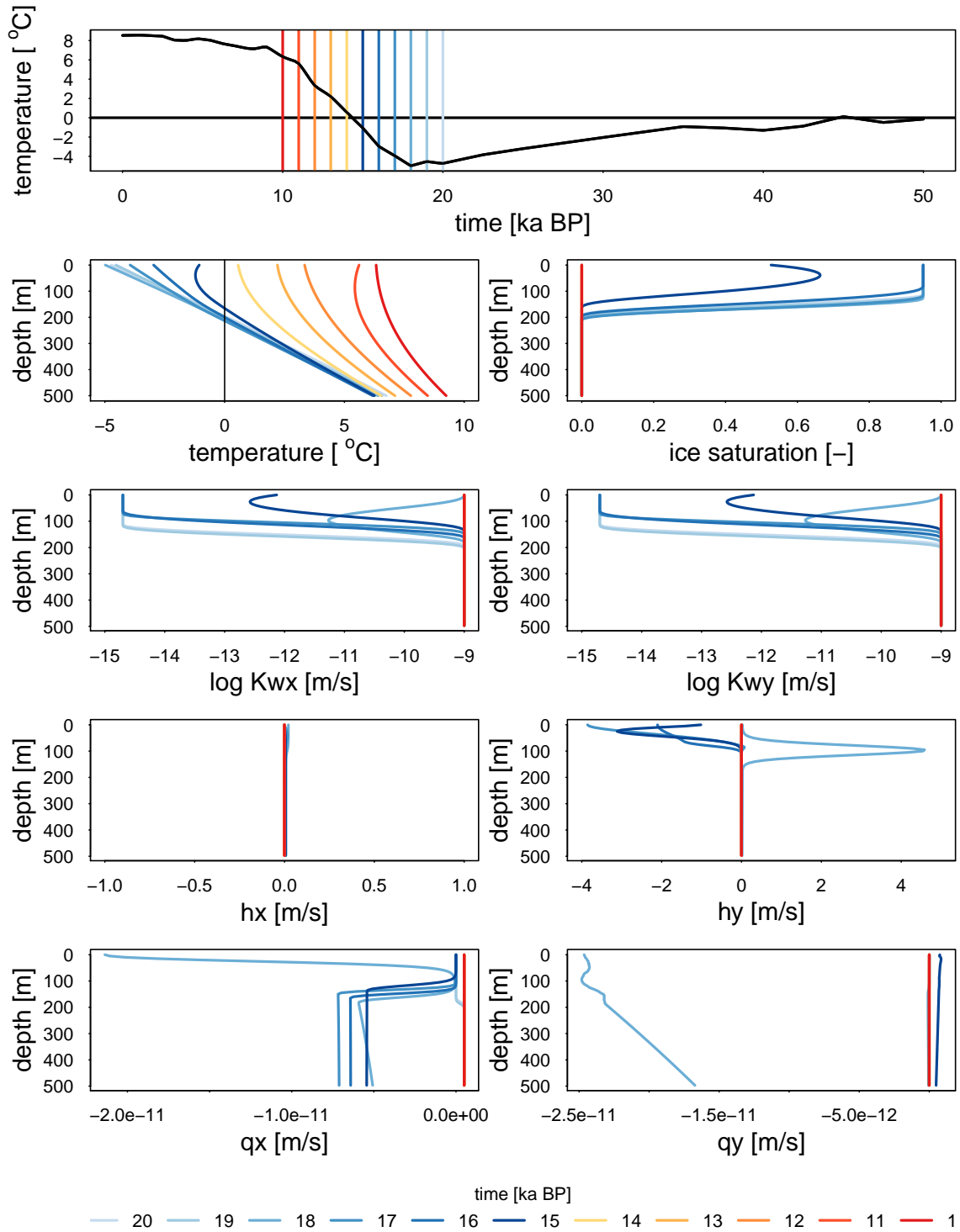
3.2.1 Run One Layer



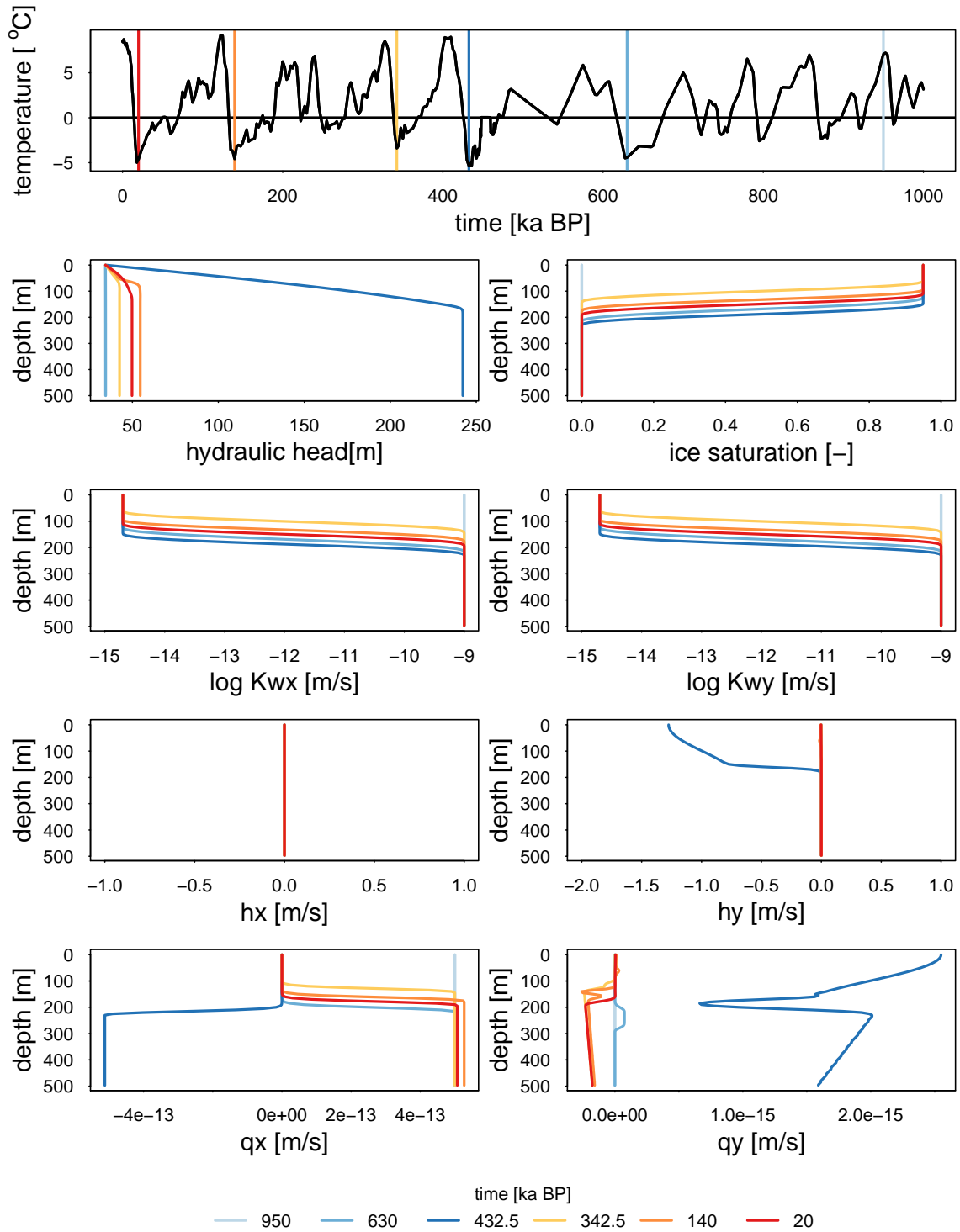
One Layer



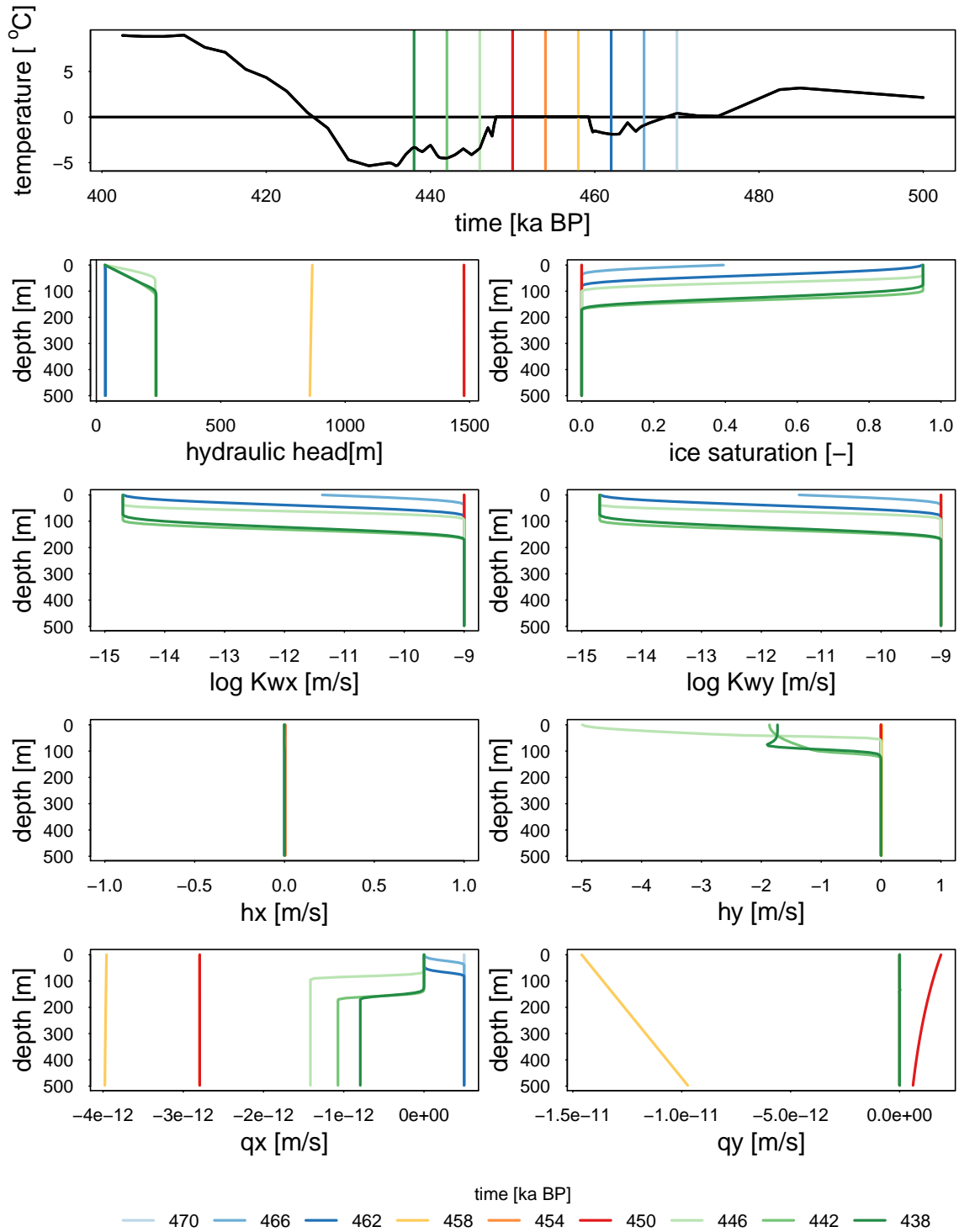
One Layer



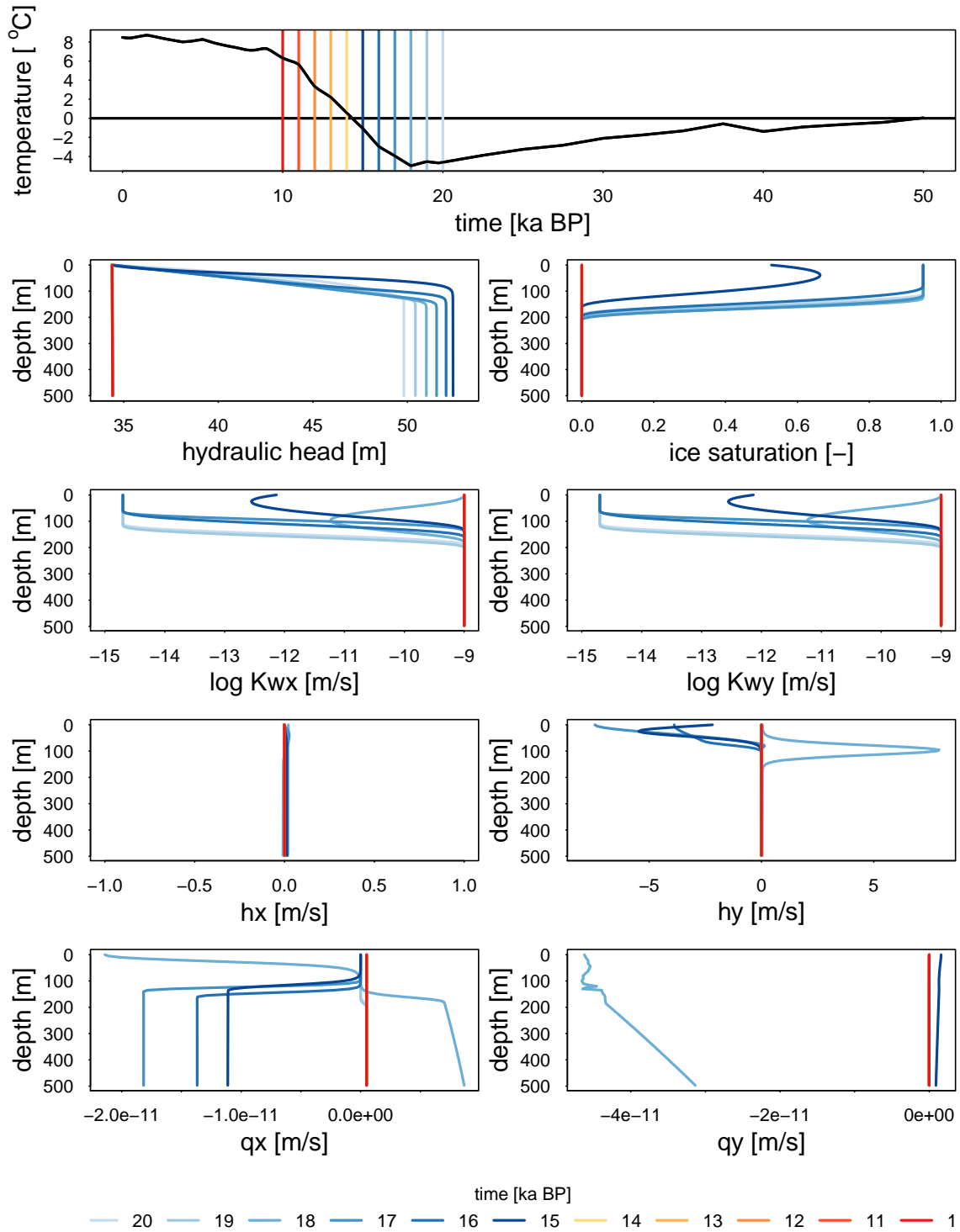
3.2.2 Run One Layer Loading



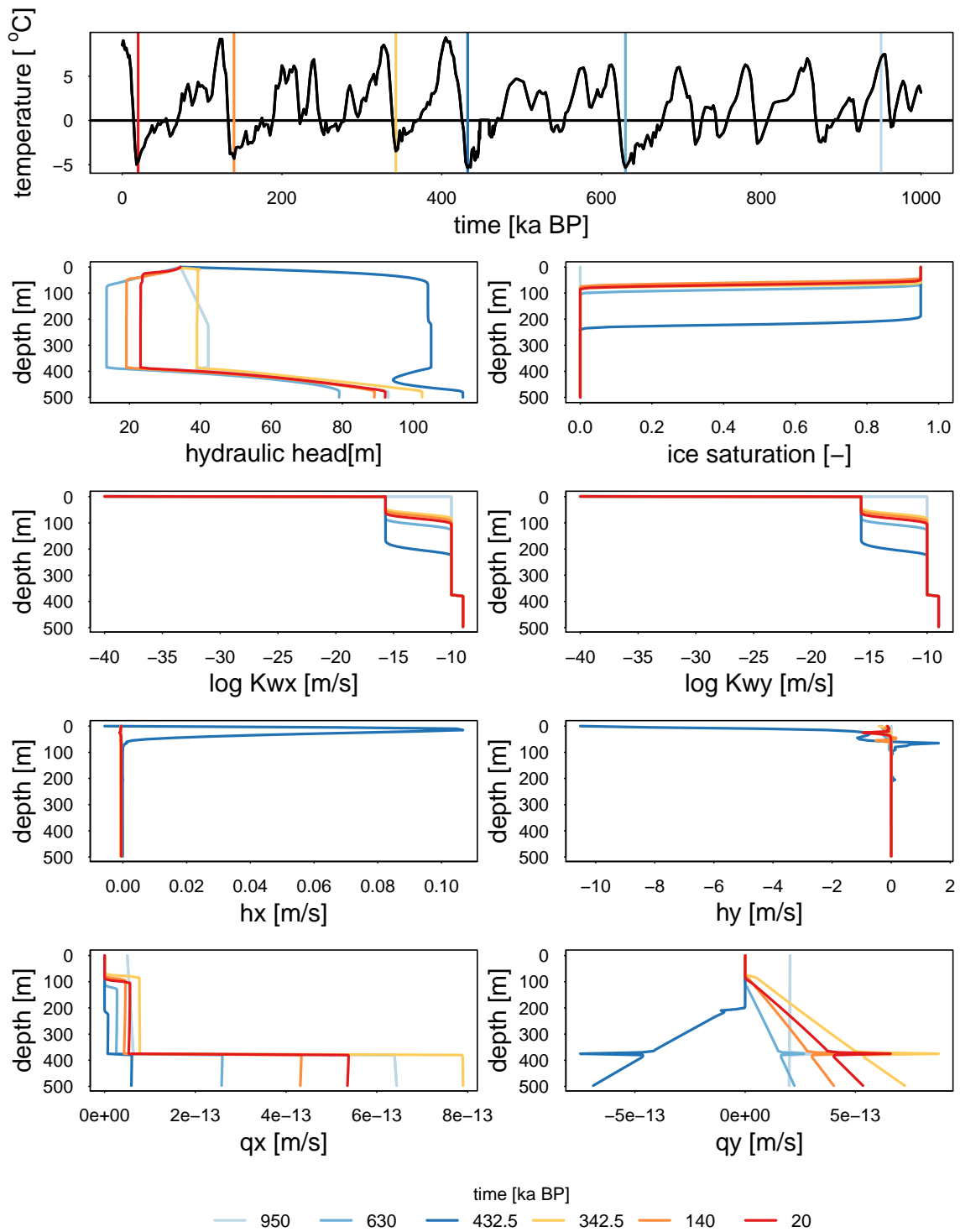
One Layer Loading



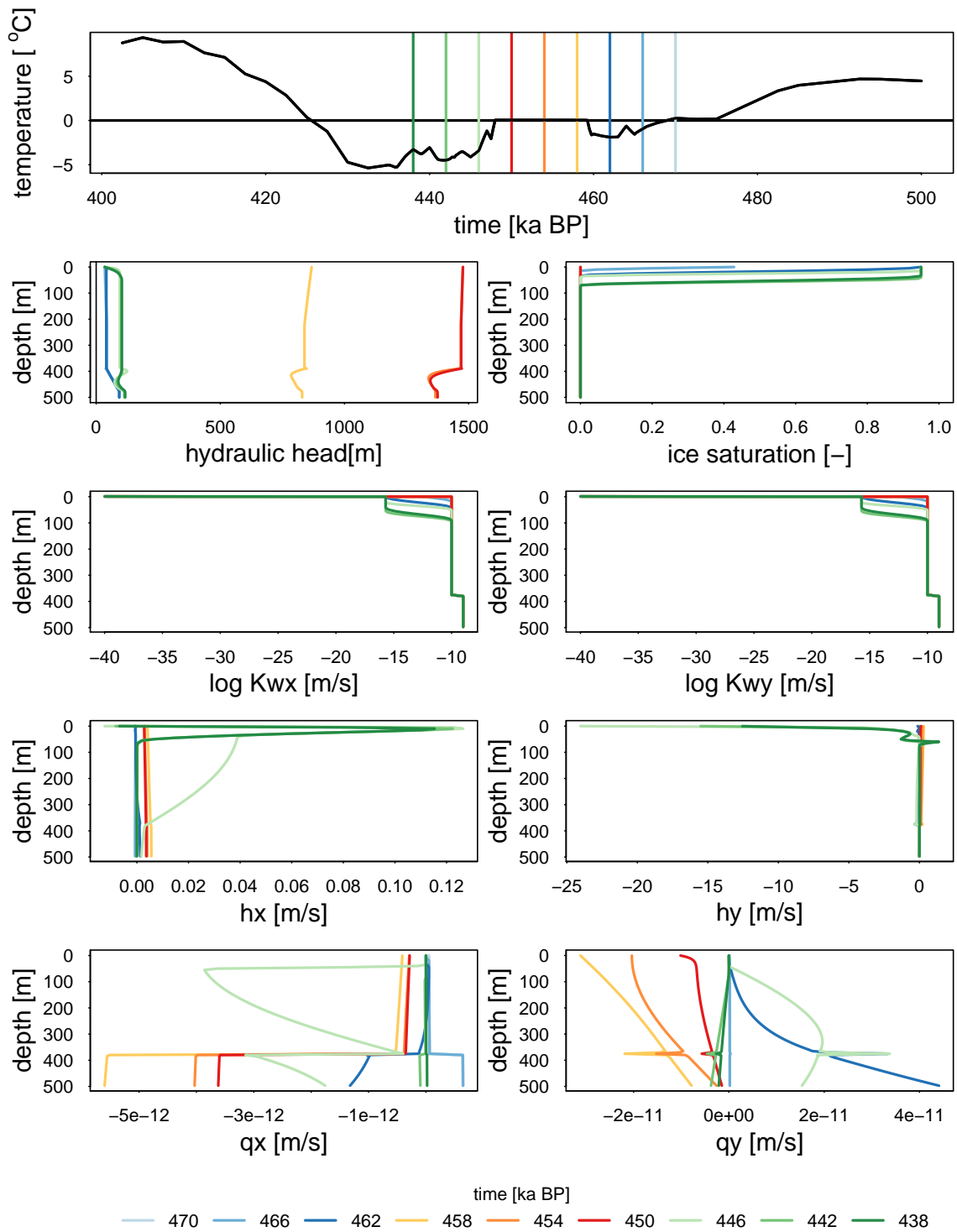
One Layer Loading



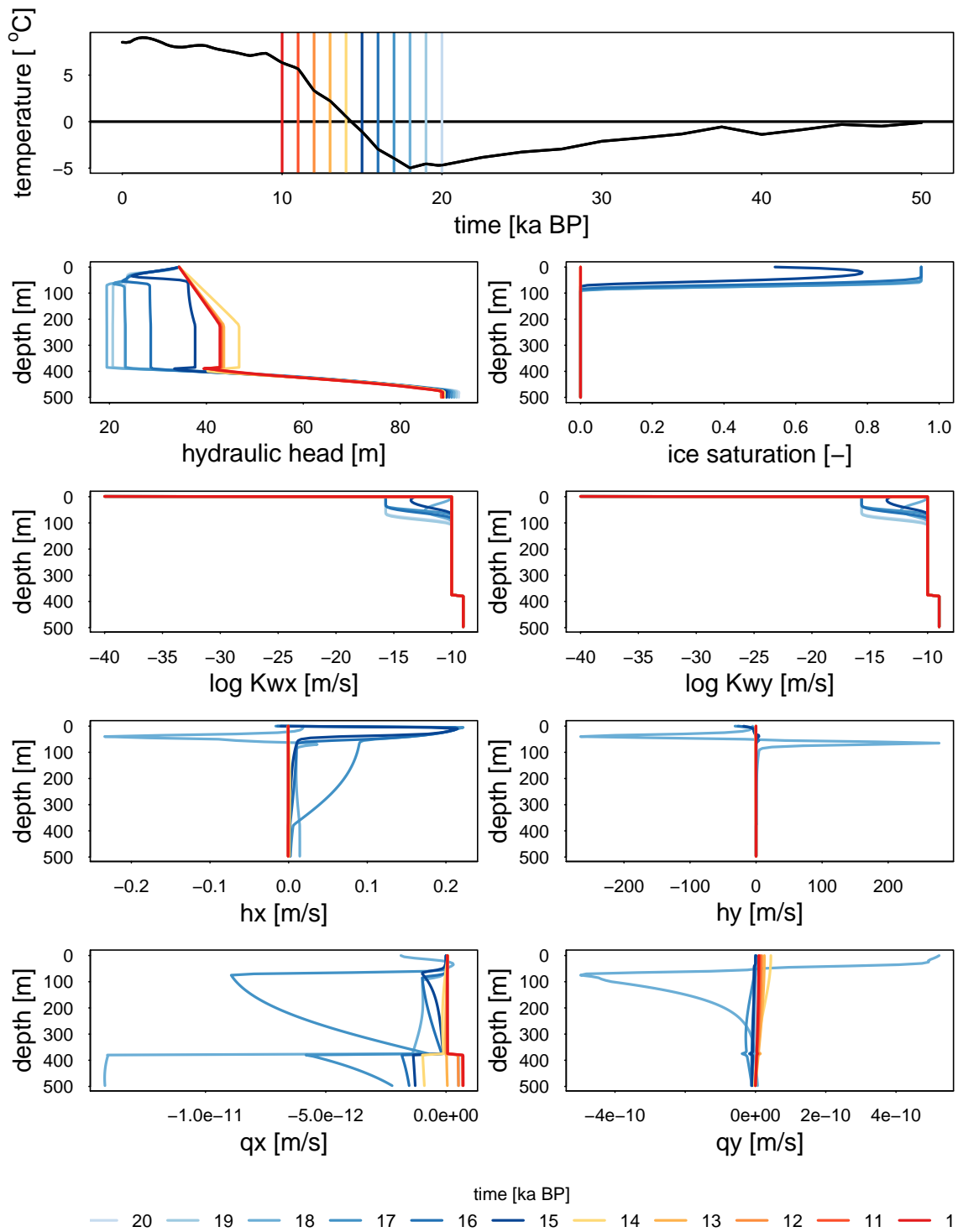
3.2.3 Run Case 1 Loading



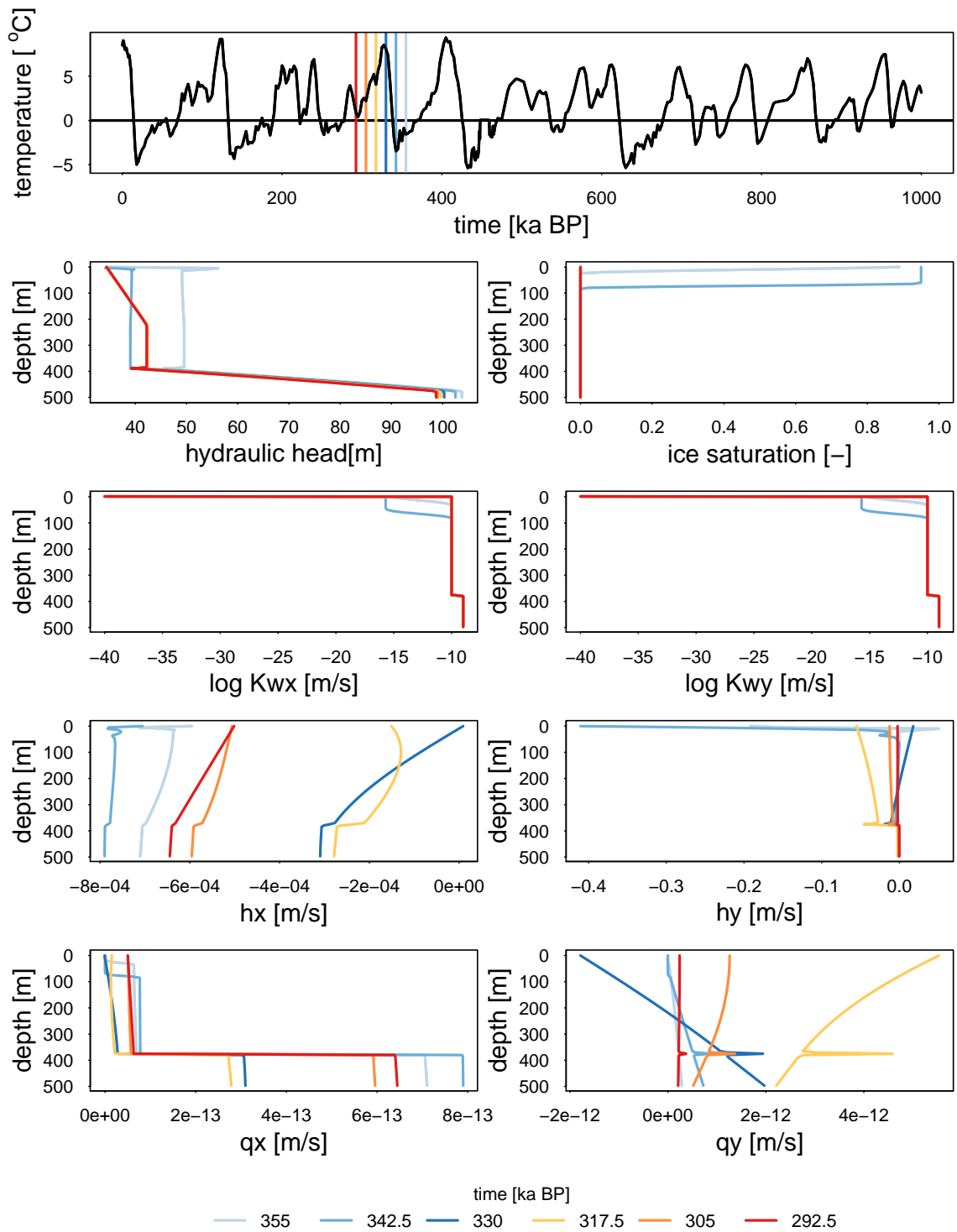
Case 1 Loading



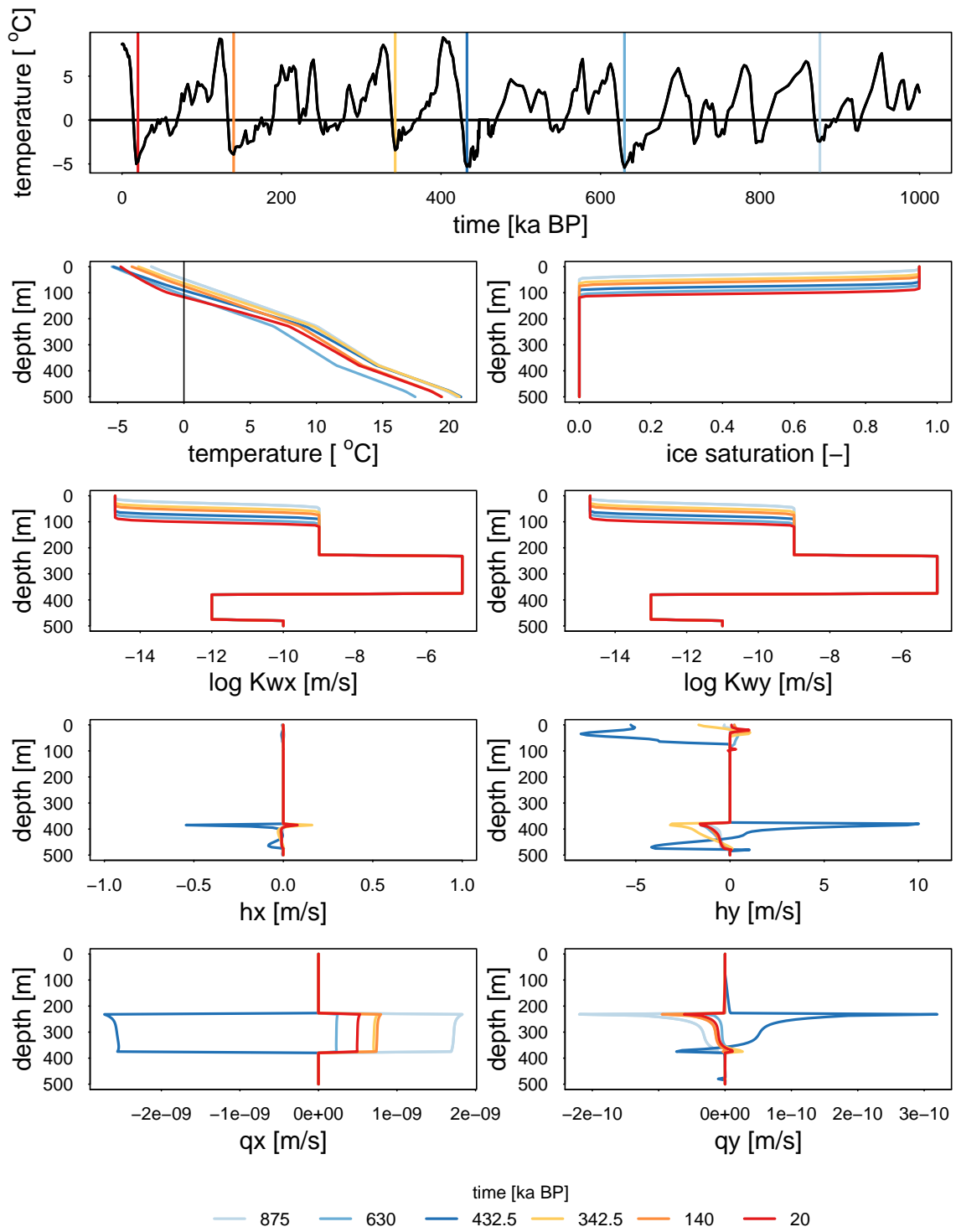
Case 1 Loading



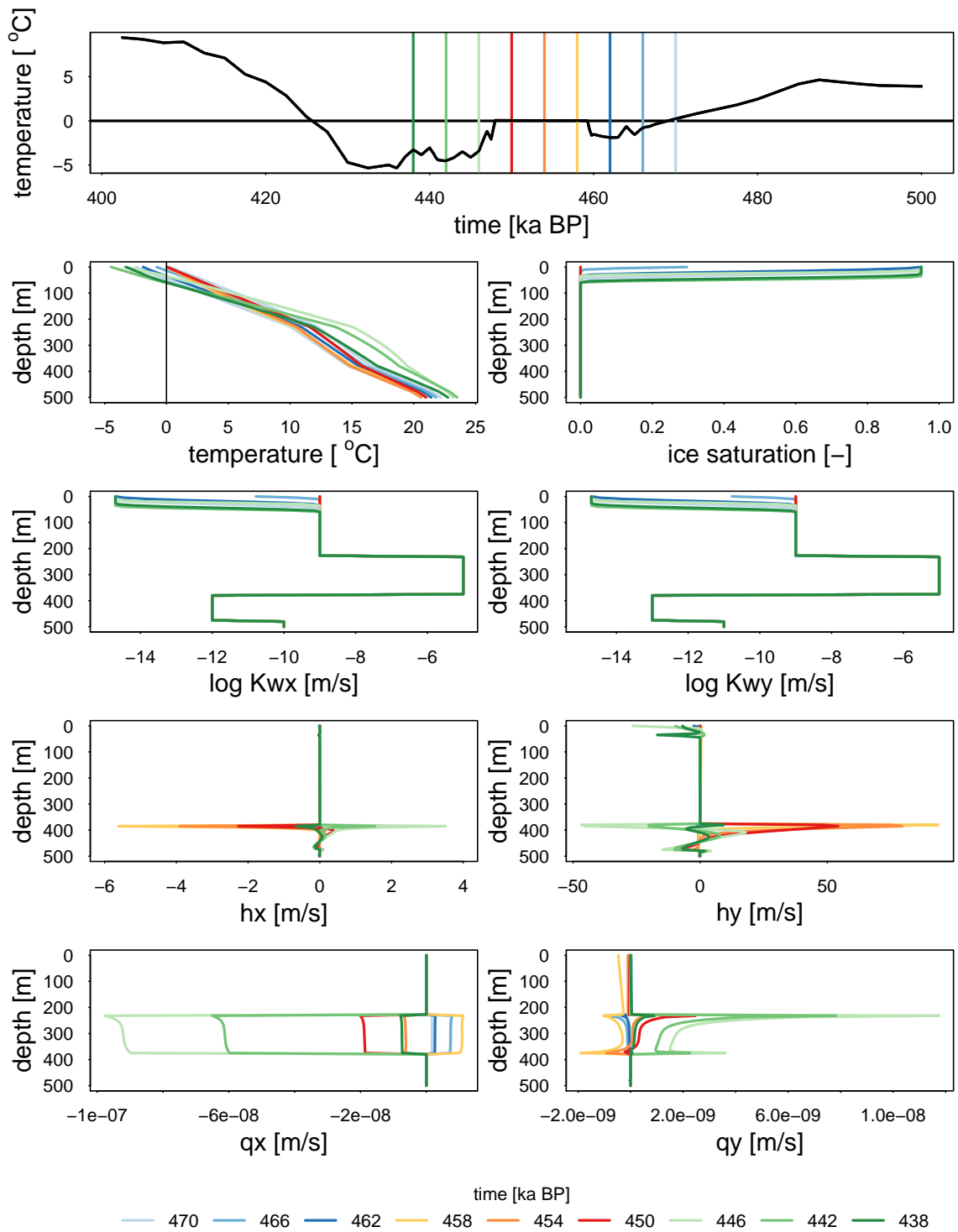
Case 1 Loading



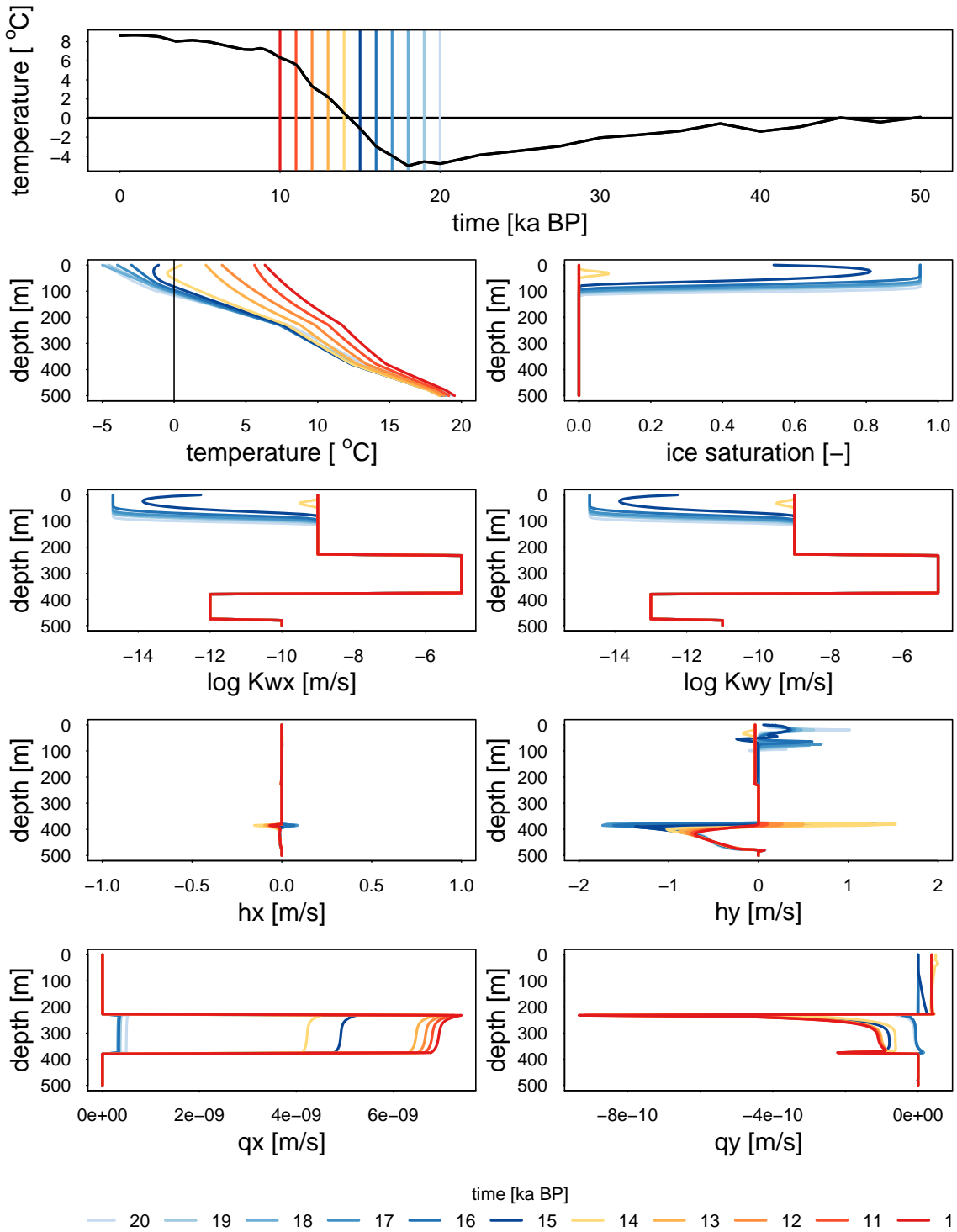
3.2.4 Run Case 2



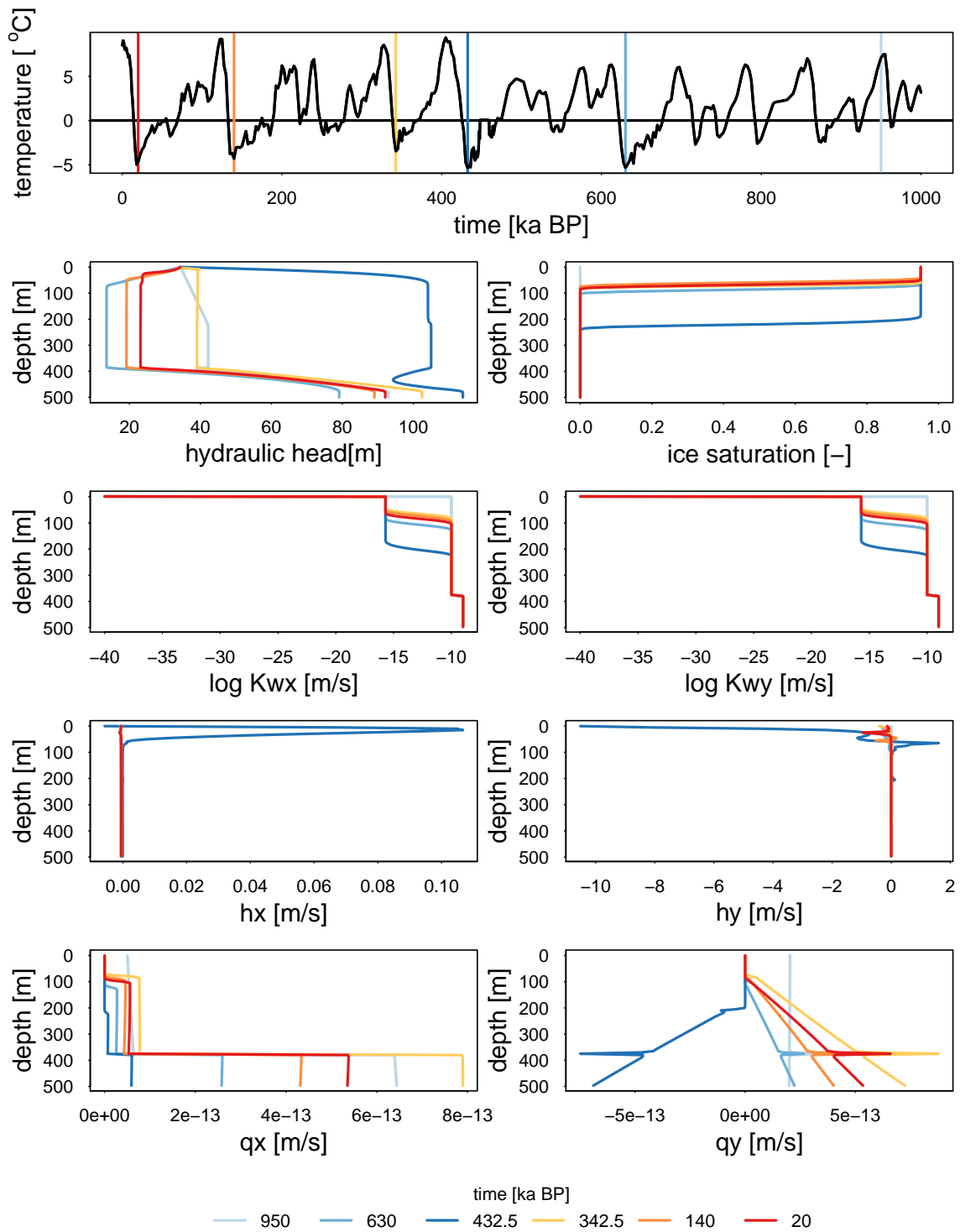
Case 2



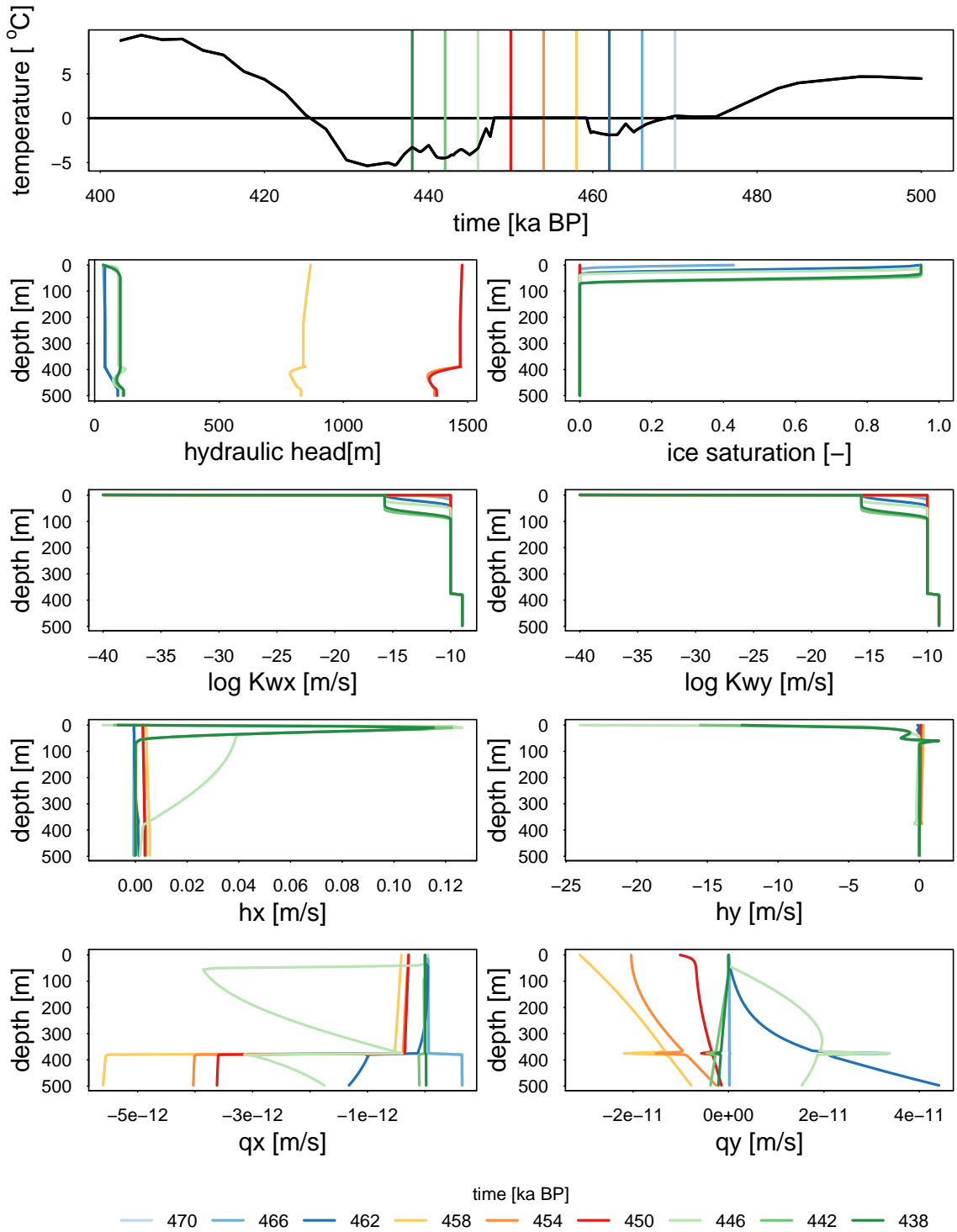
Case 2



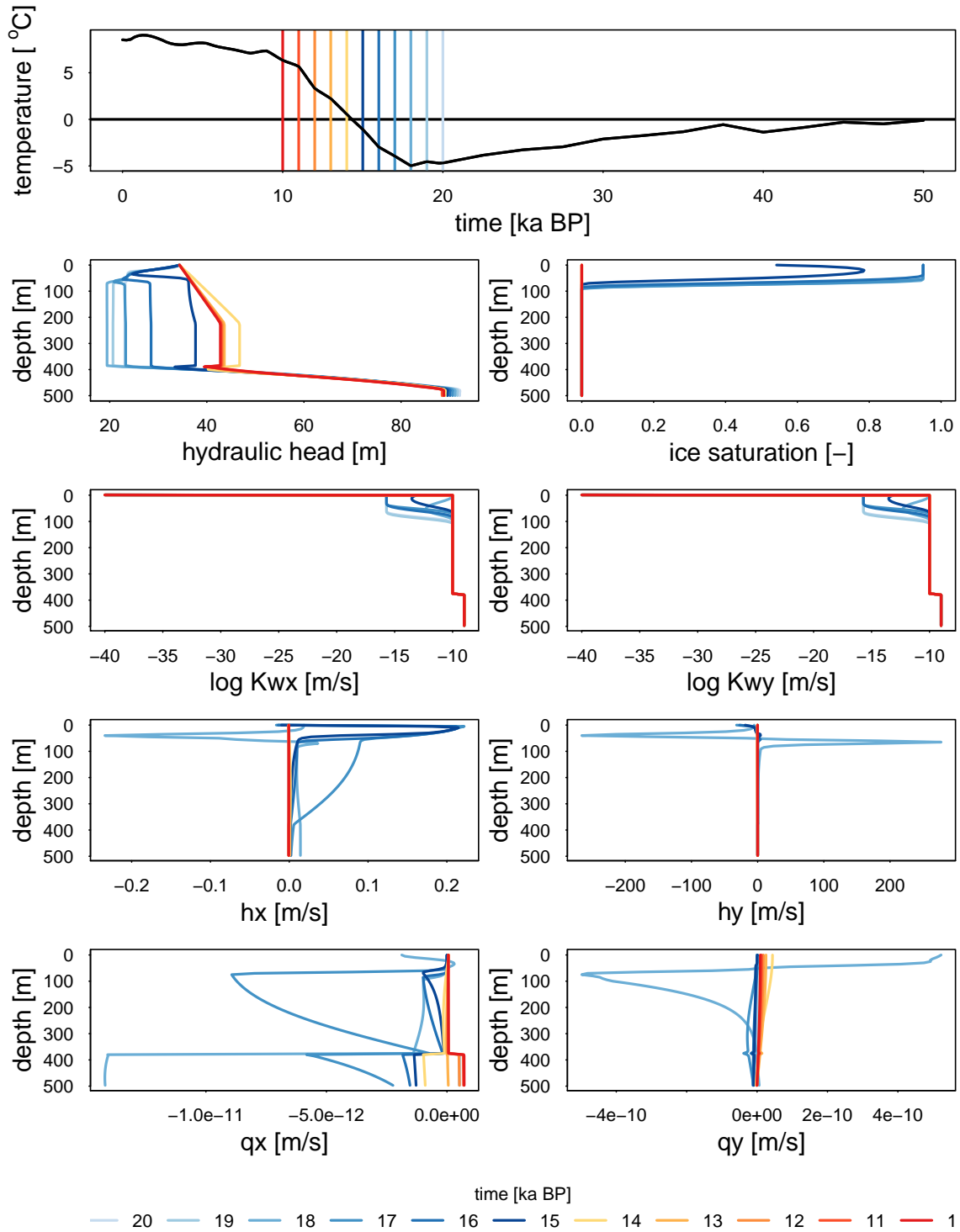
3.2.5 Run Case 2 Loading



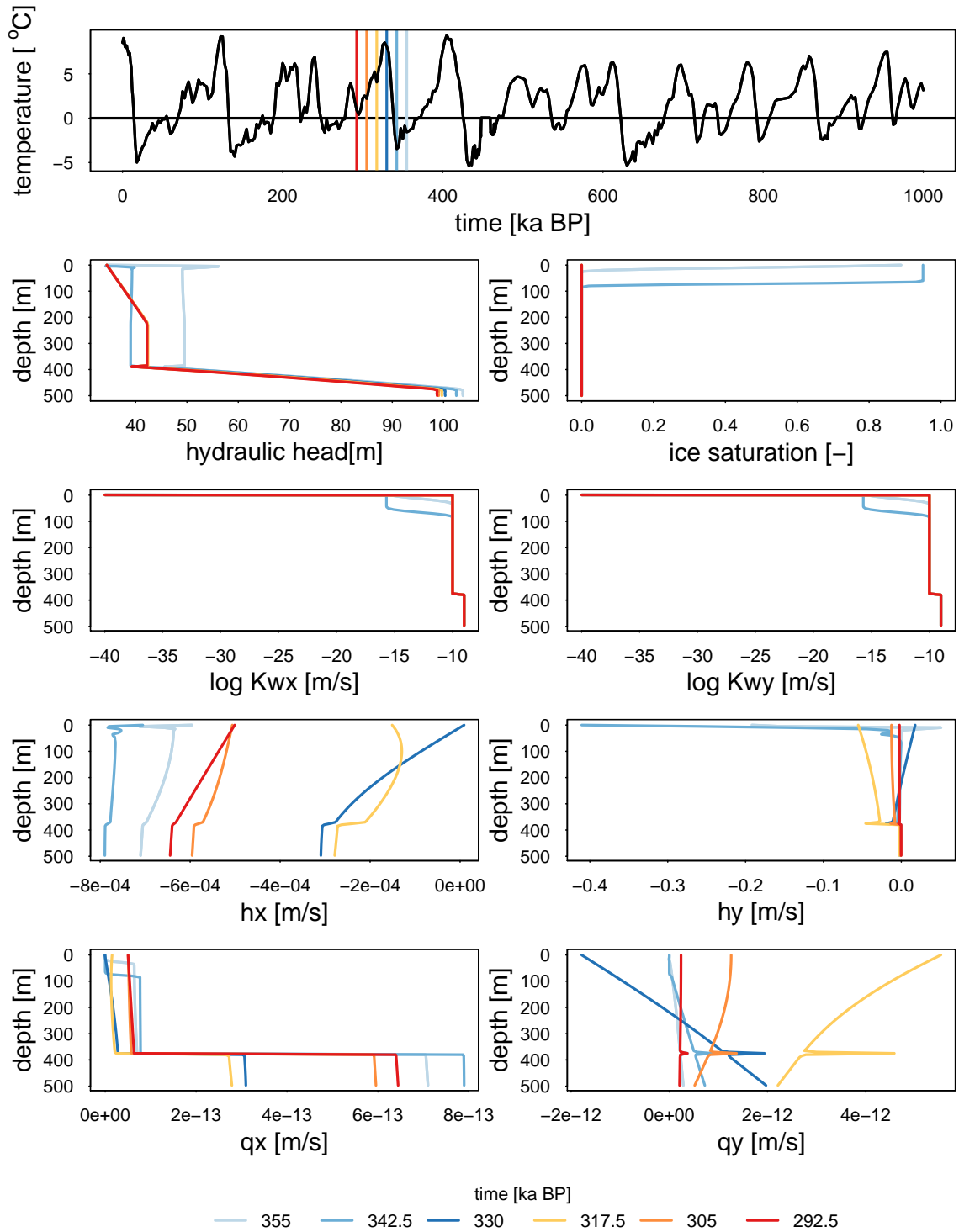
Case 2 Loading



Case 2 Loading



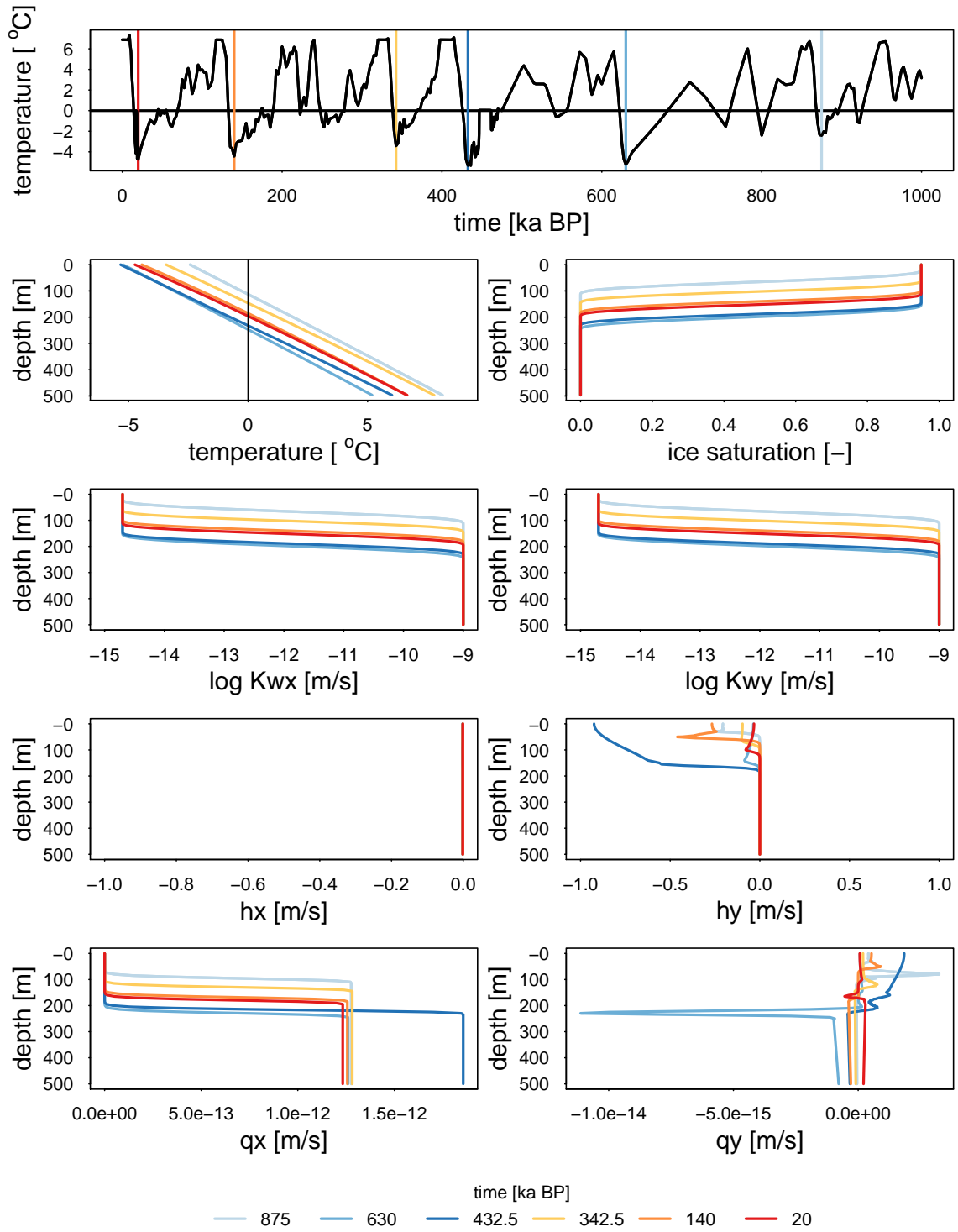
Case 2 Loading



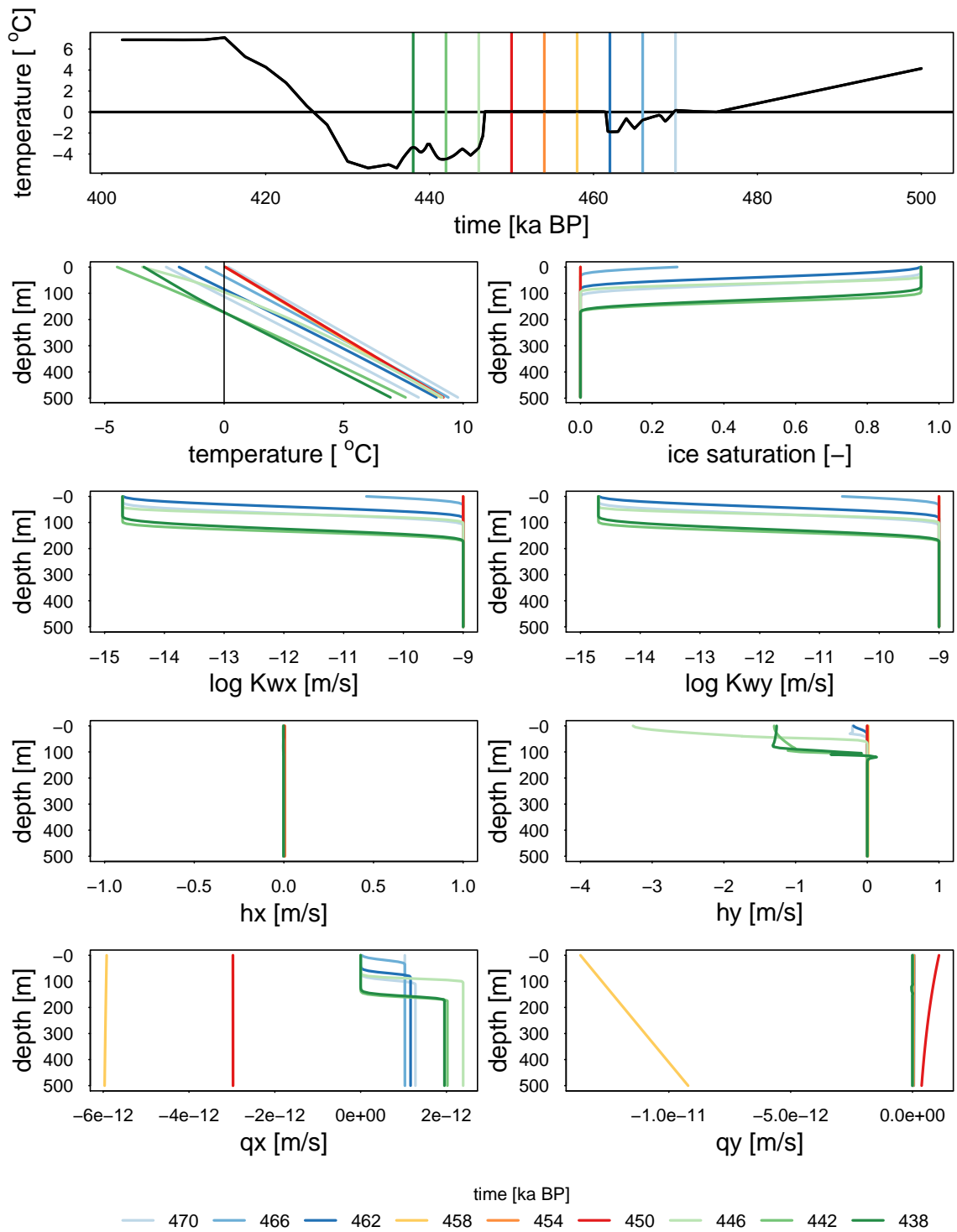
3.3 Depth Profiles through the middle of the model domain

This section presents depth profiles of temperature, ice saturation, hydraulic conductivity in x and y , hydraulic head gradient in x and y , lateral flow (qx) and vertical flow (qy) at times outlined in the temperature time series at the top of the page. Profiles at 7, 9 and 13 of the model domain (Figure 7) are presented for the model runs described in Section 4.4.2 and in Table 4.

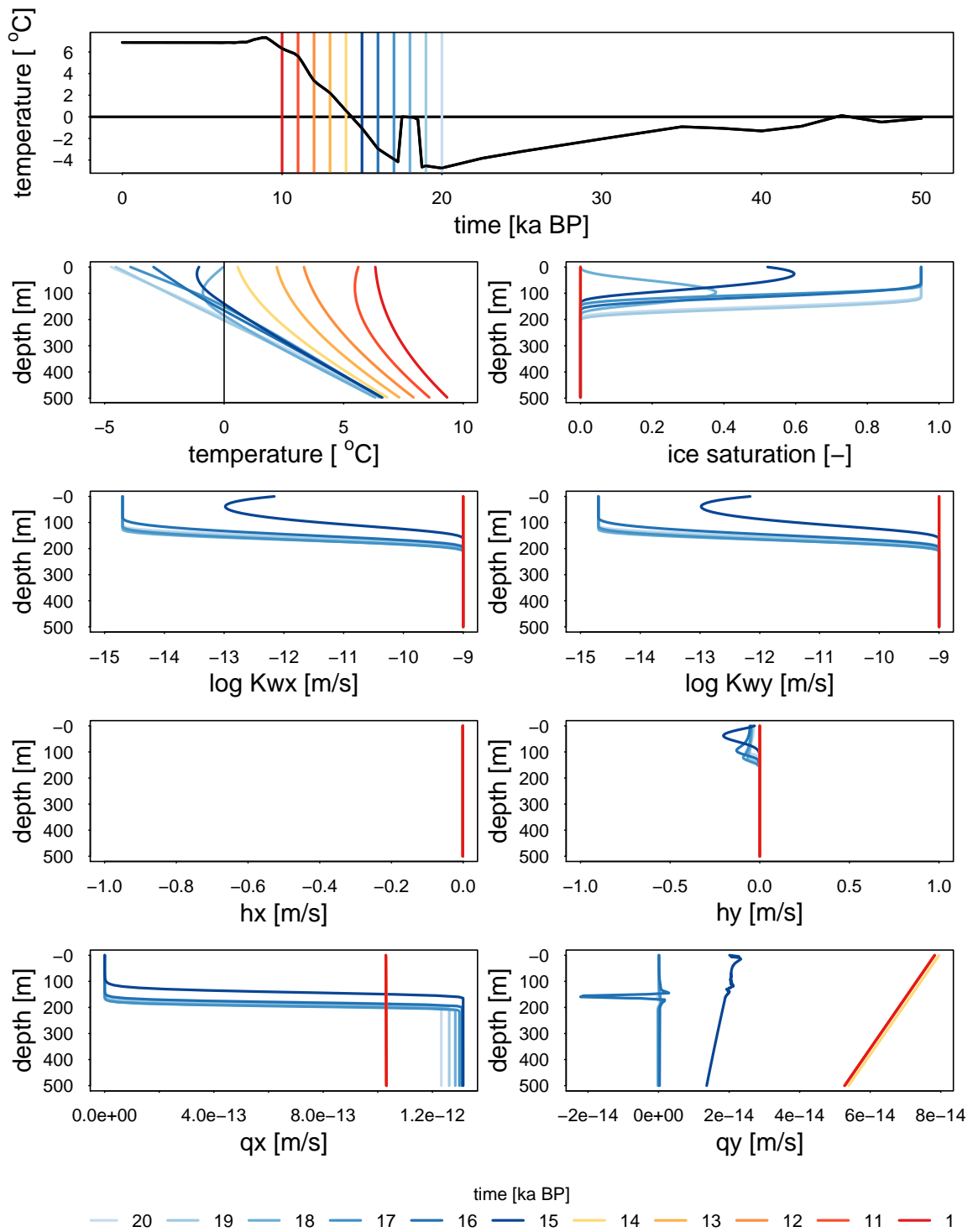
3.3.1 Run One Layer



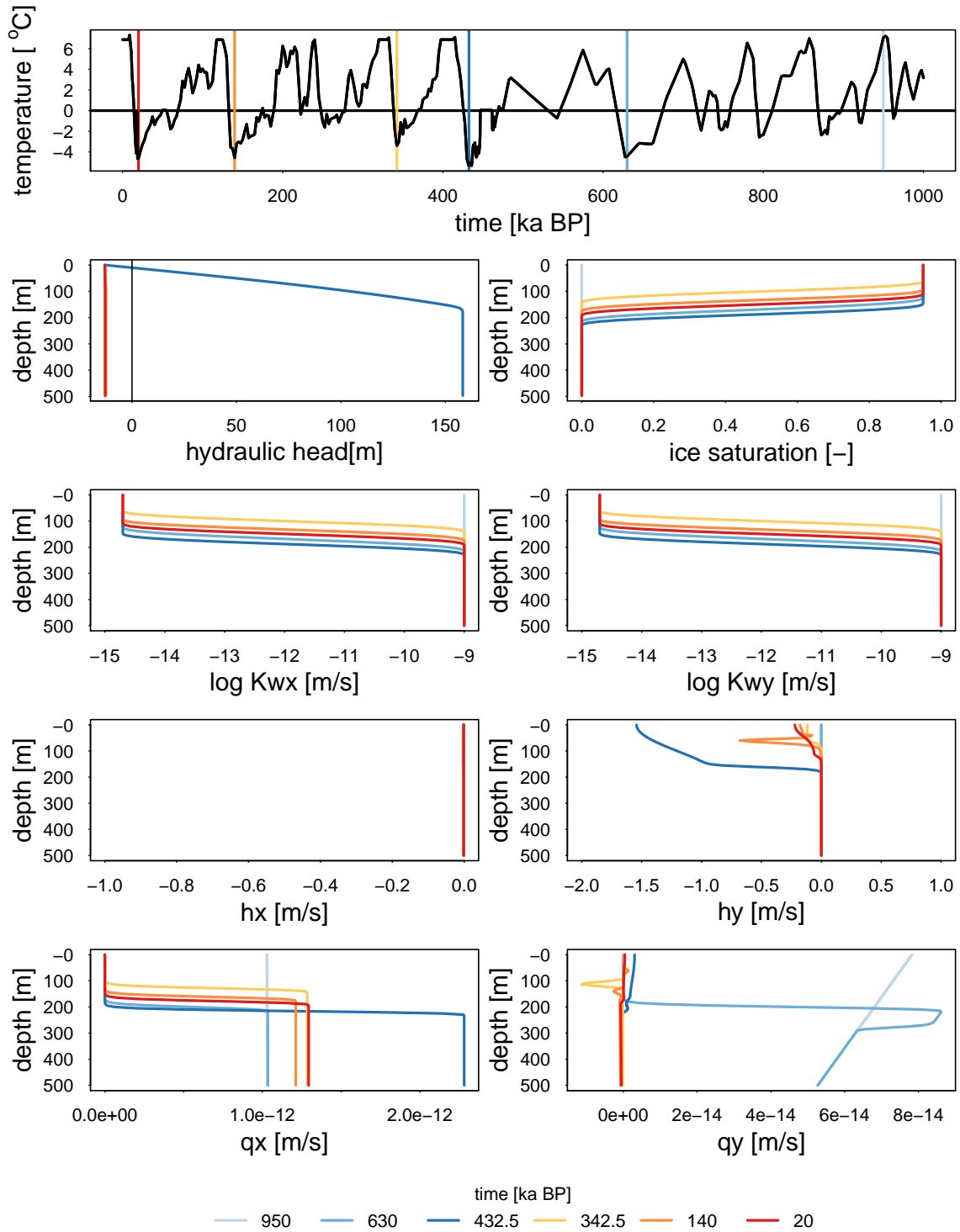
One Layer



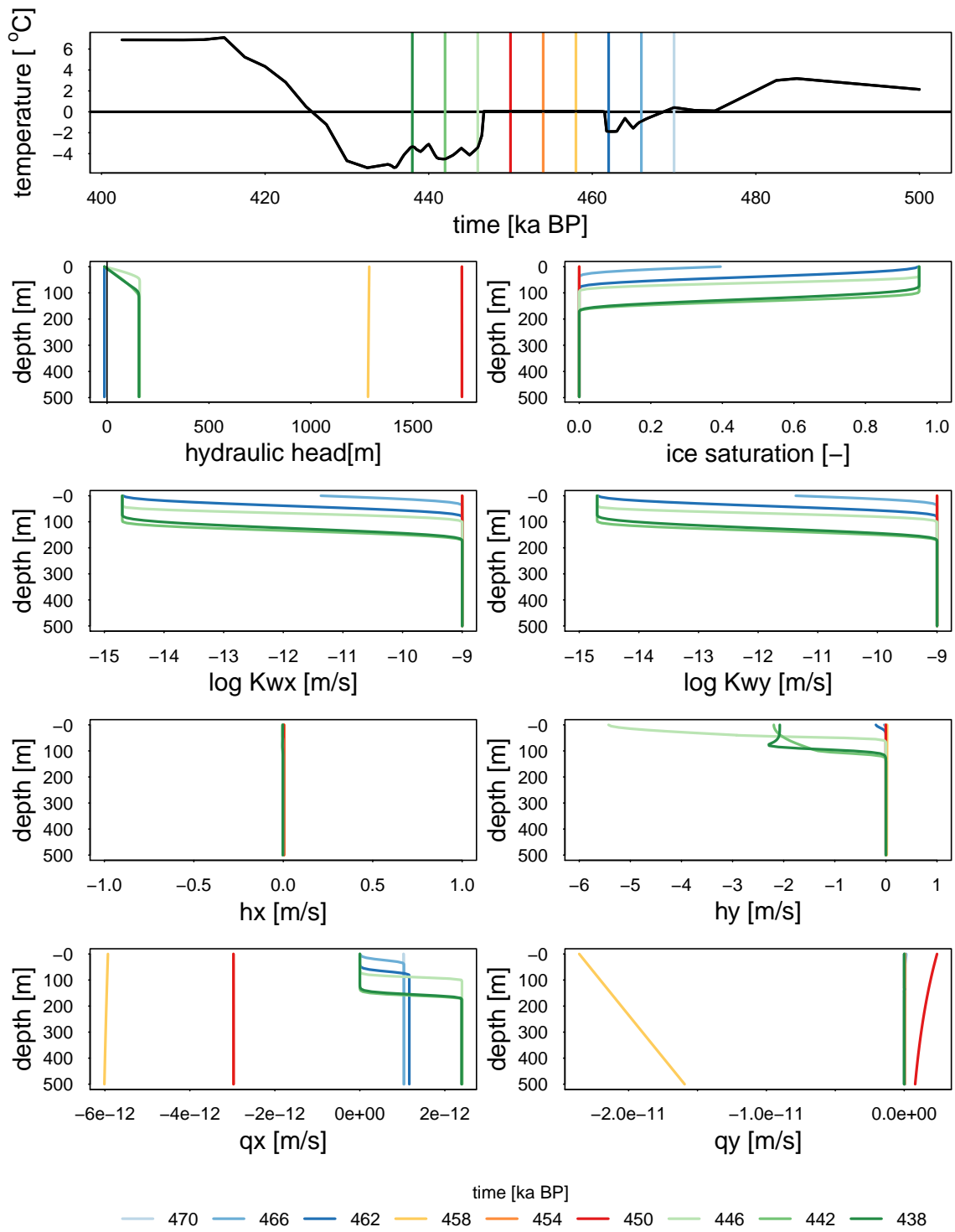
One Layer



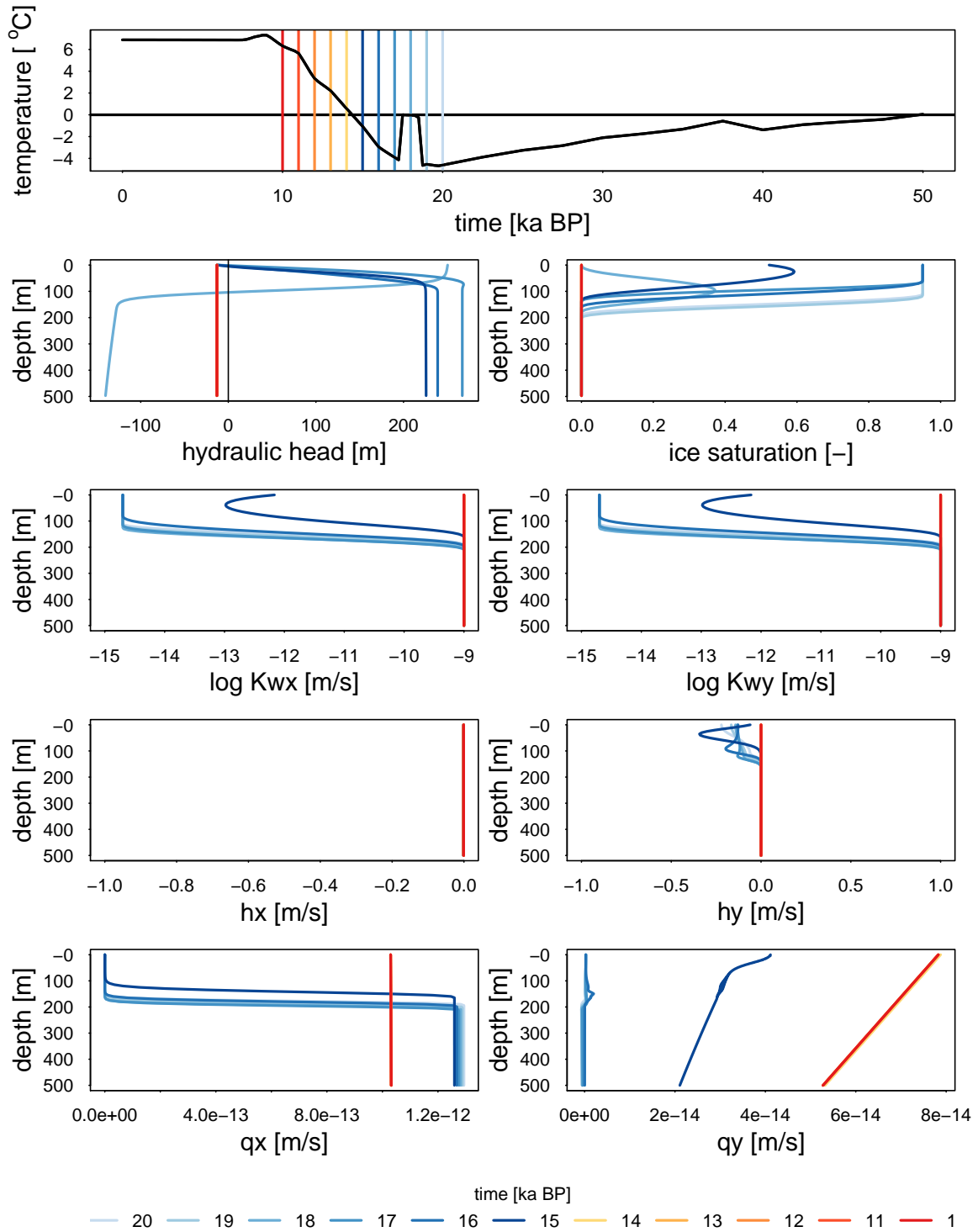
3.3.2 Run One Layer Loading



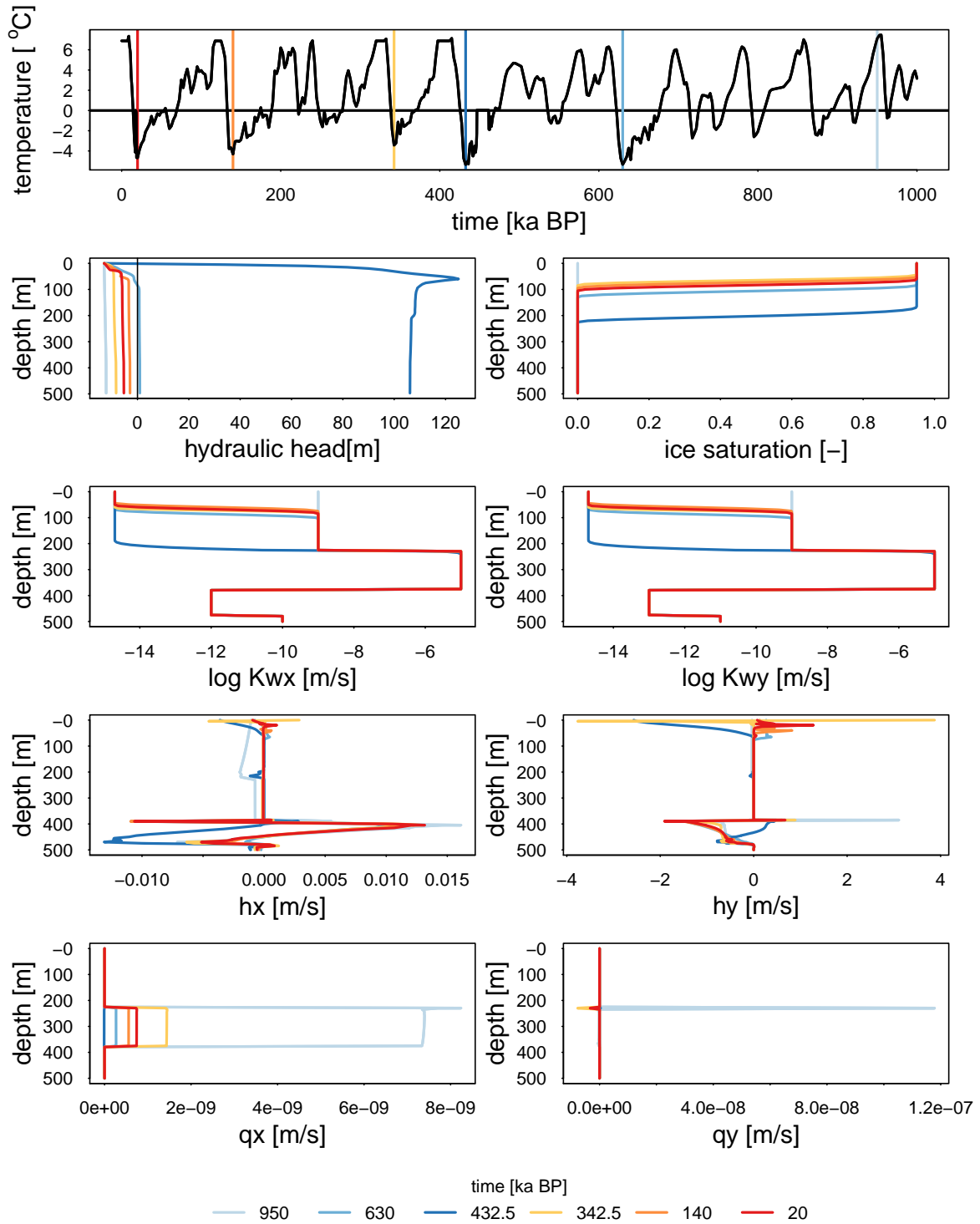
One Layer Loading



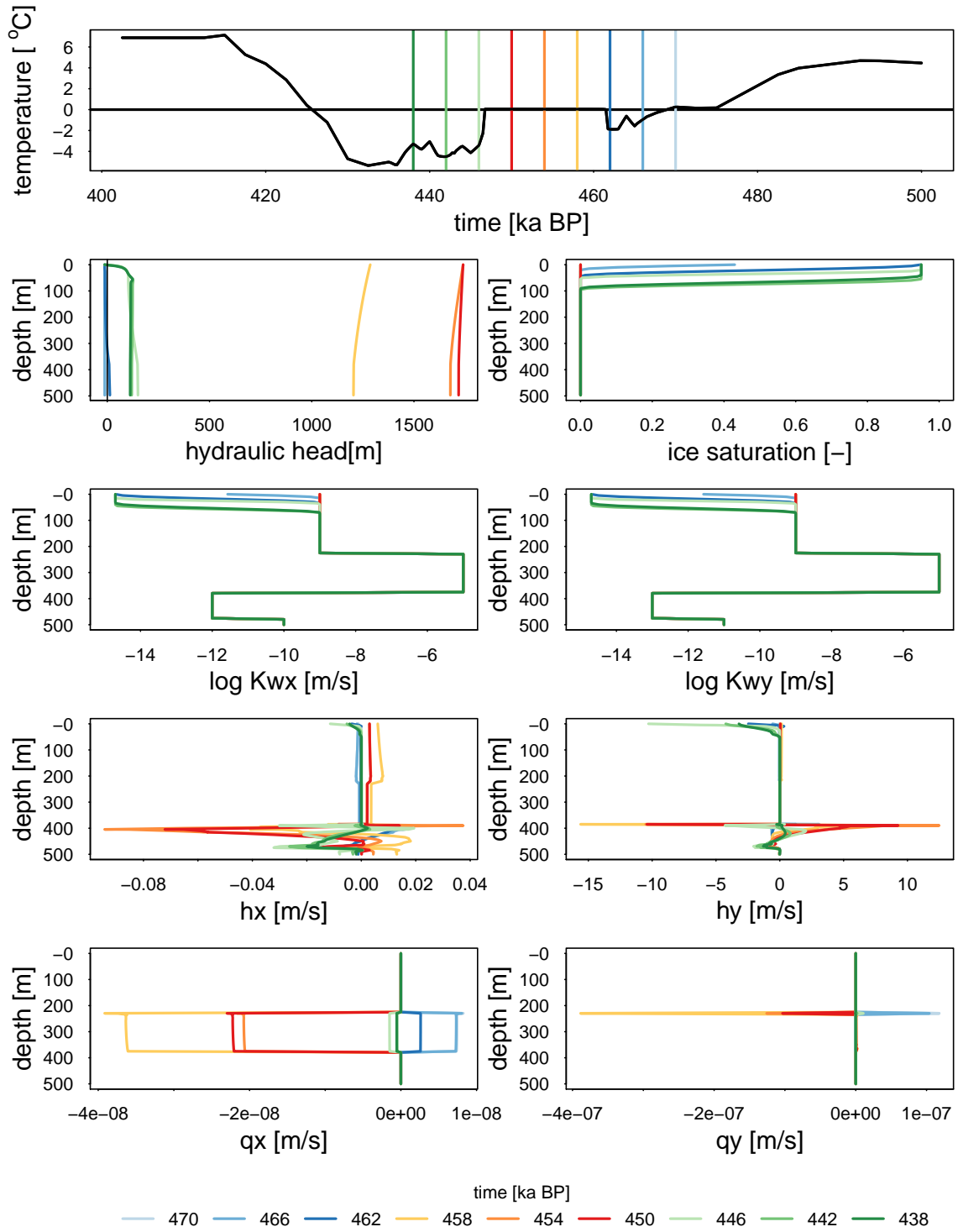
One Layer Loading



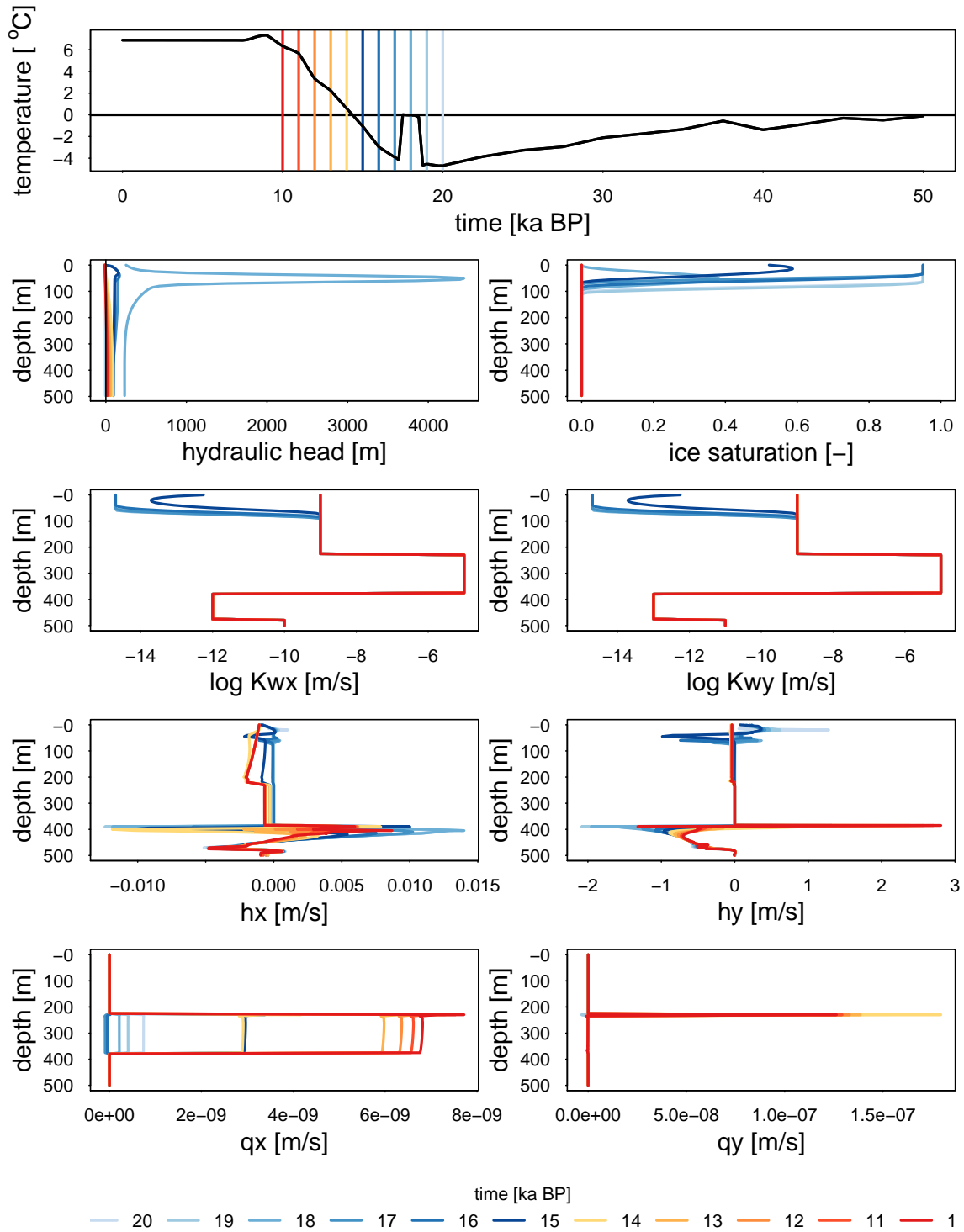
3.3.3 Run Case 1 Loading



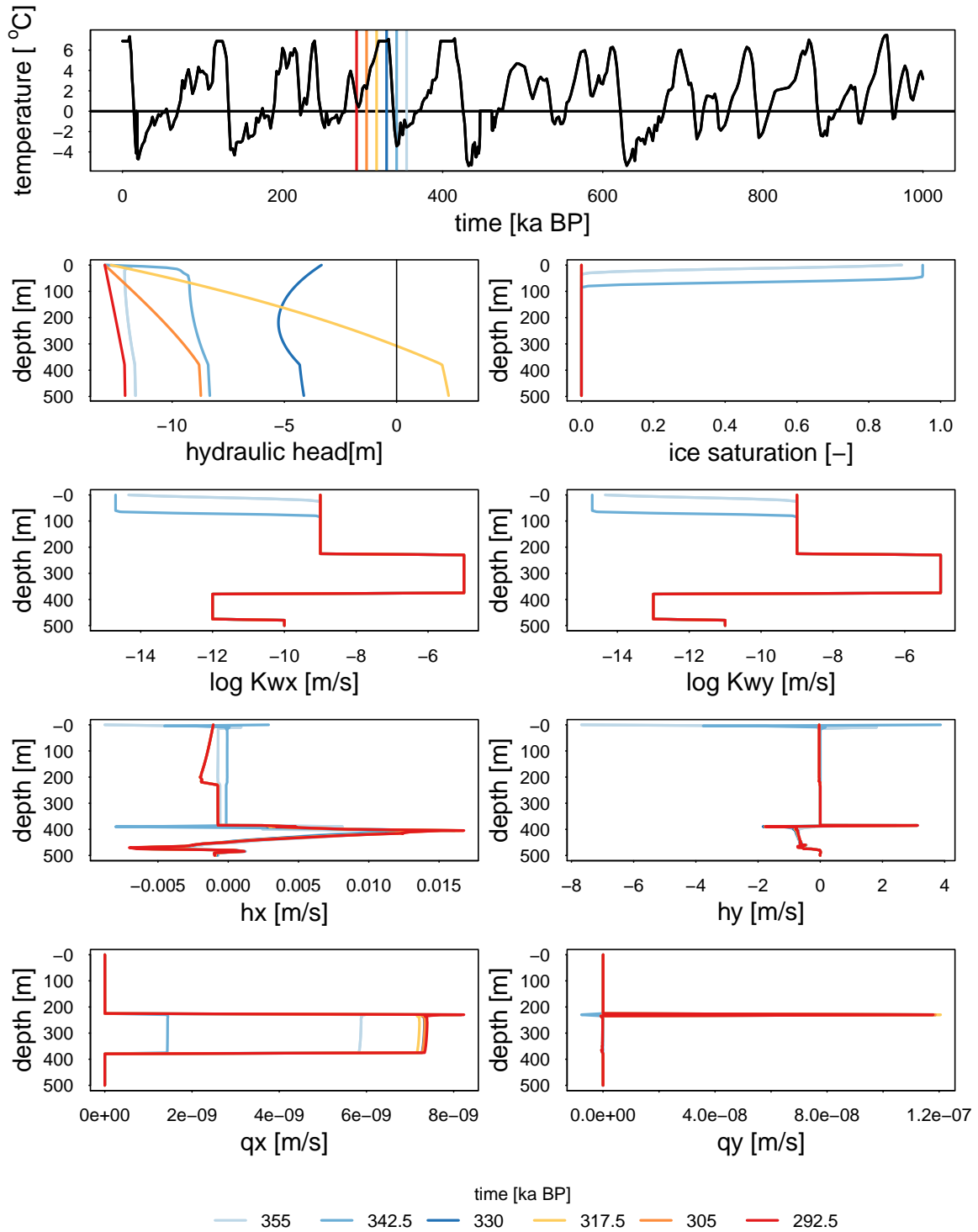
Case 1 Loading



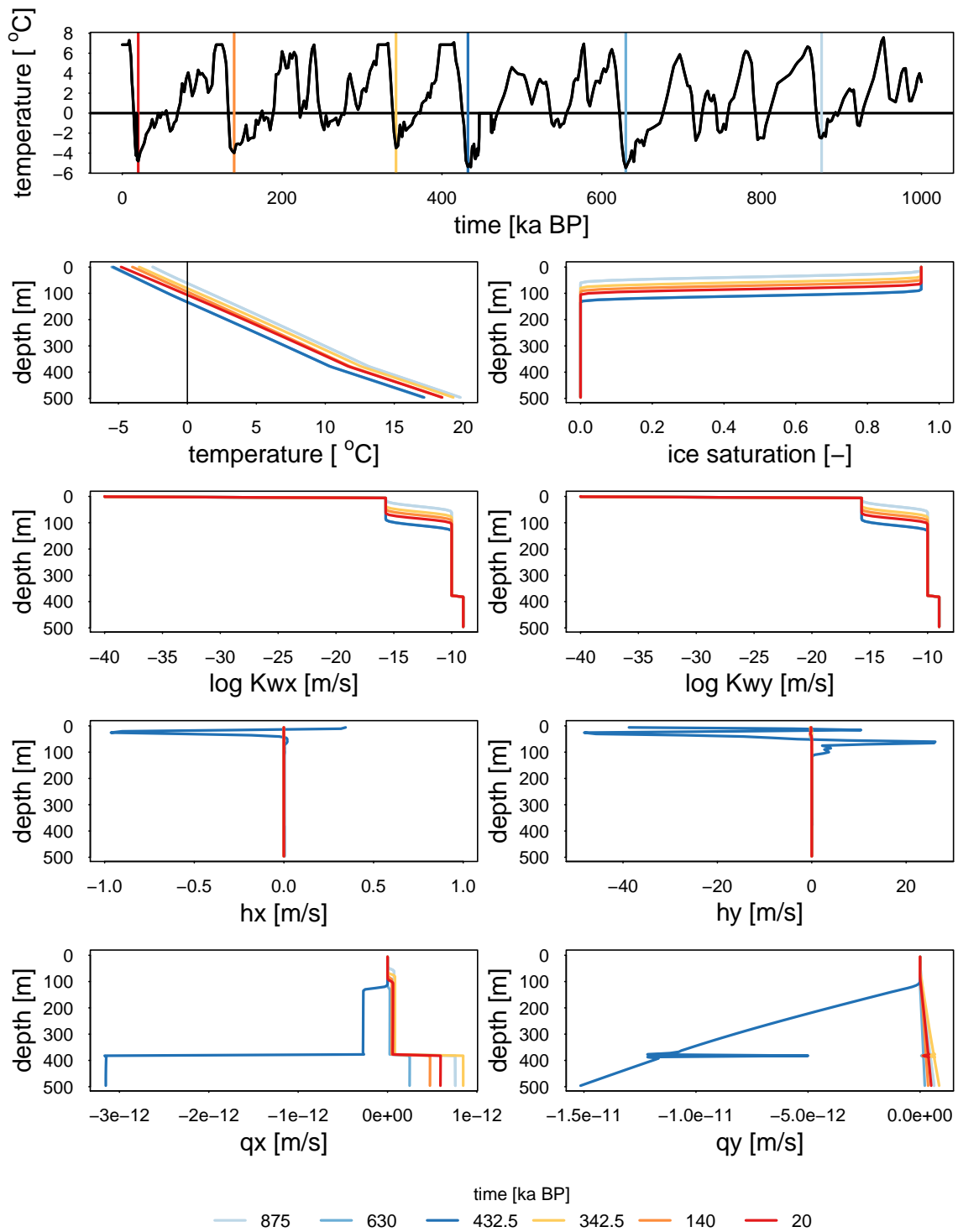
Case 1 Loading



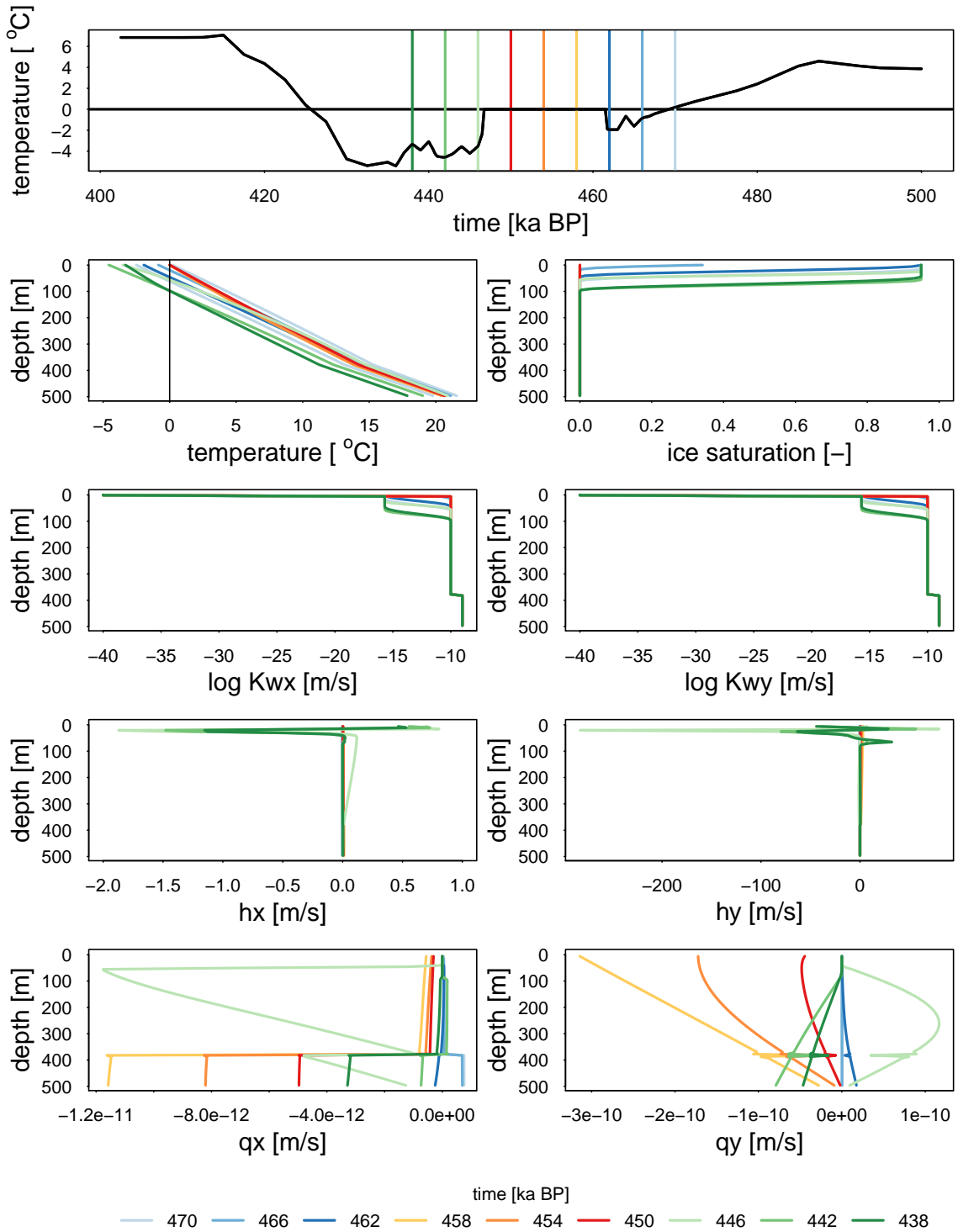
Case 1 Loading



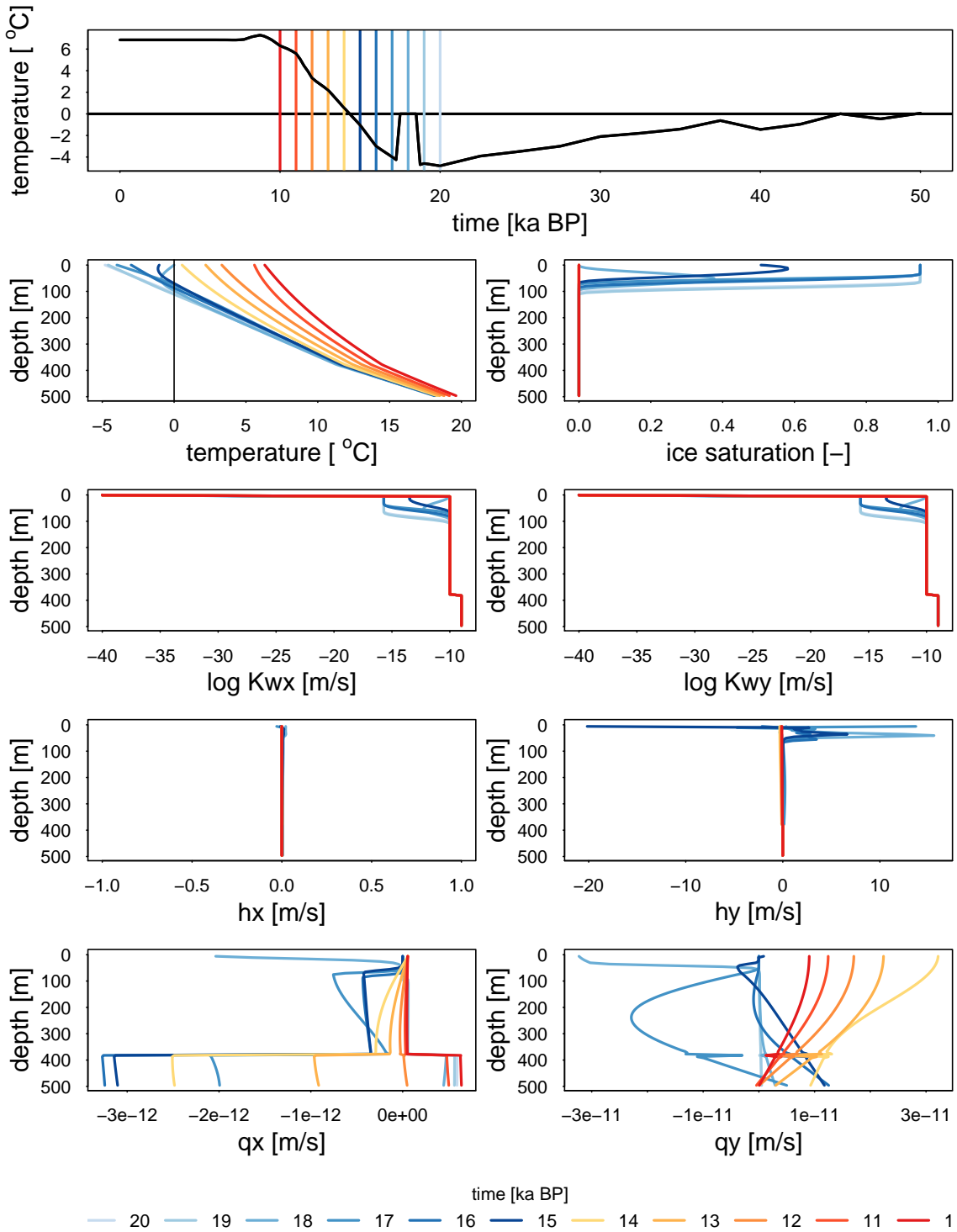
3.3.4 Run Case 2



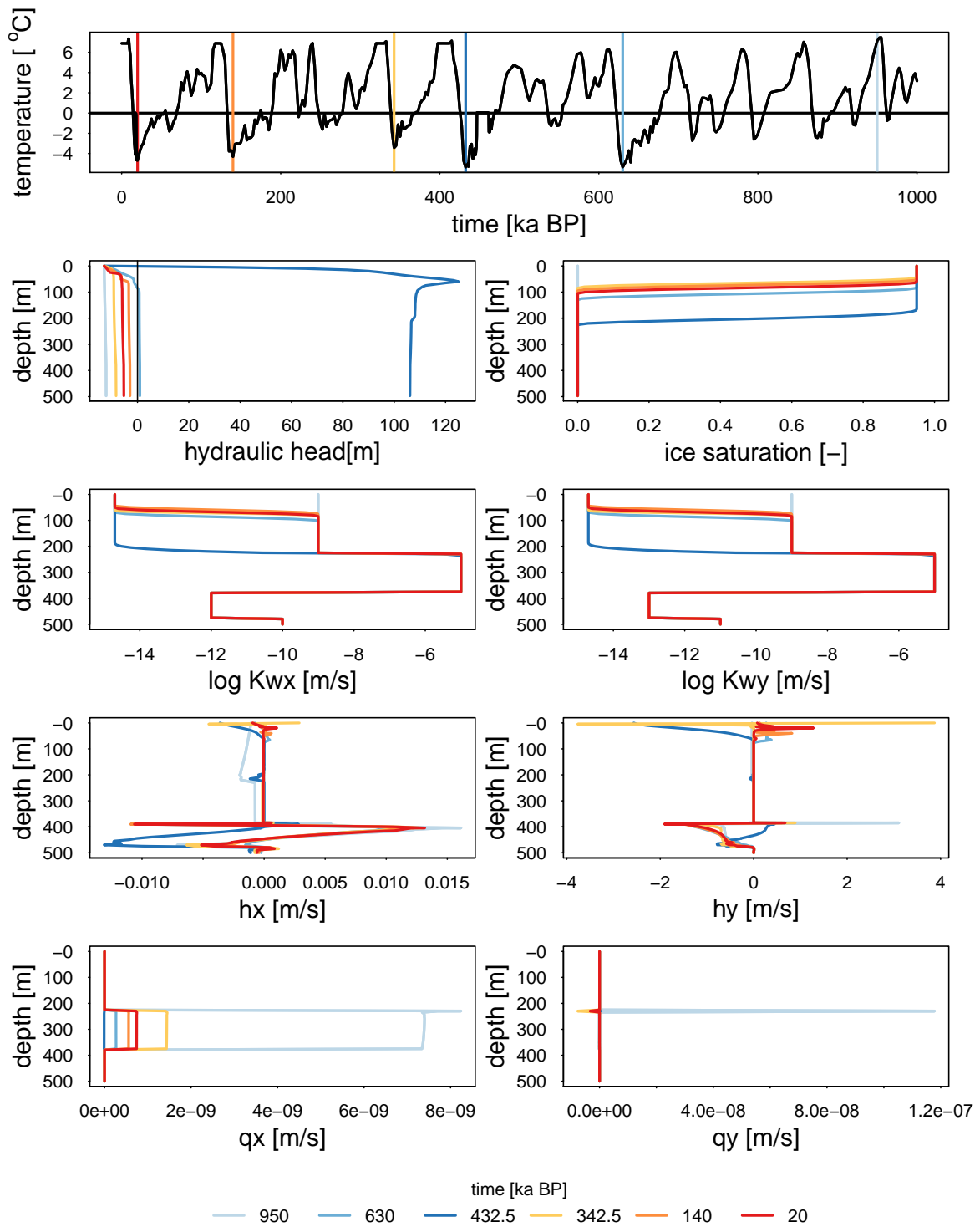
Case 2



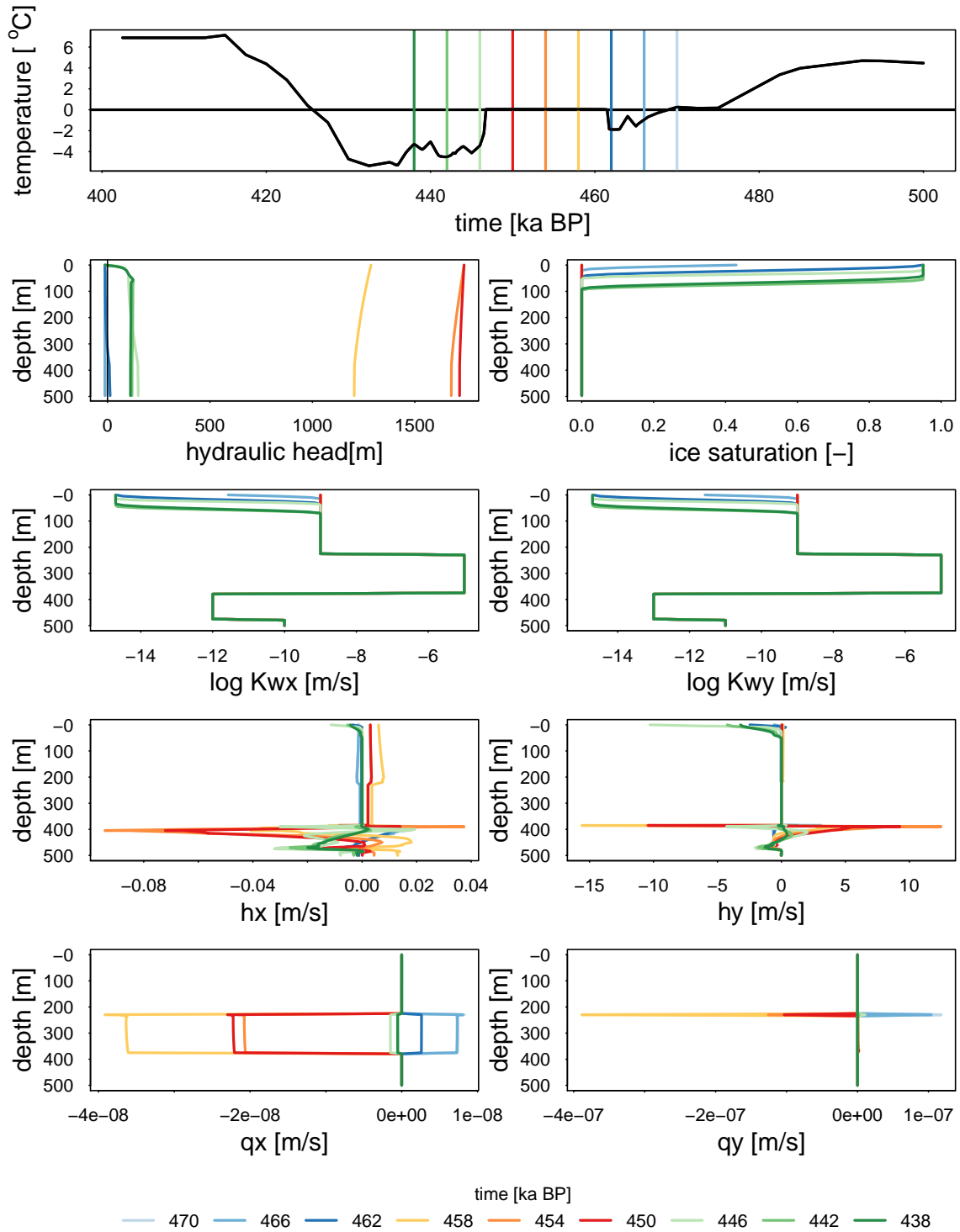
Case 2



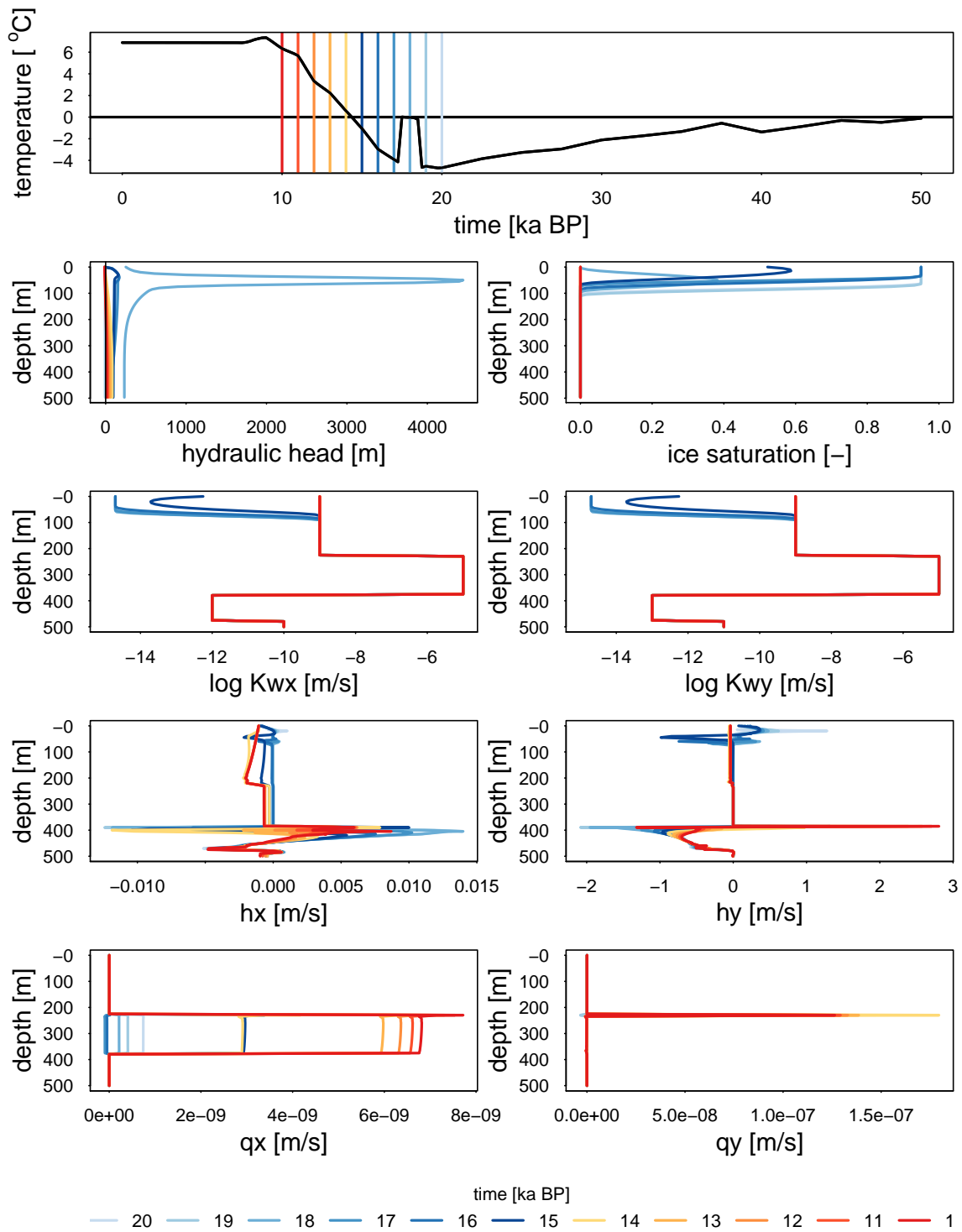
3.3.5 Run Case 2 Loading



Case 2 Loading



Case 2 Loading



Case 2 Loading

